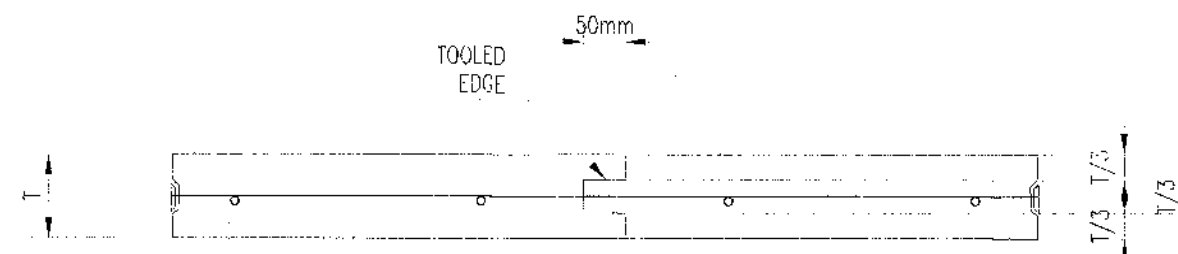


PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS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

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SAWED JOINT
W/ SEALANT

3mm

$T/2$

WEAKENED PLANE JOINT

NOTE:

CONTROL JOINT CAN BE EITHER CONSTRUCTION JOINT
OR WEAKENED PLANE JOINT.

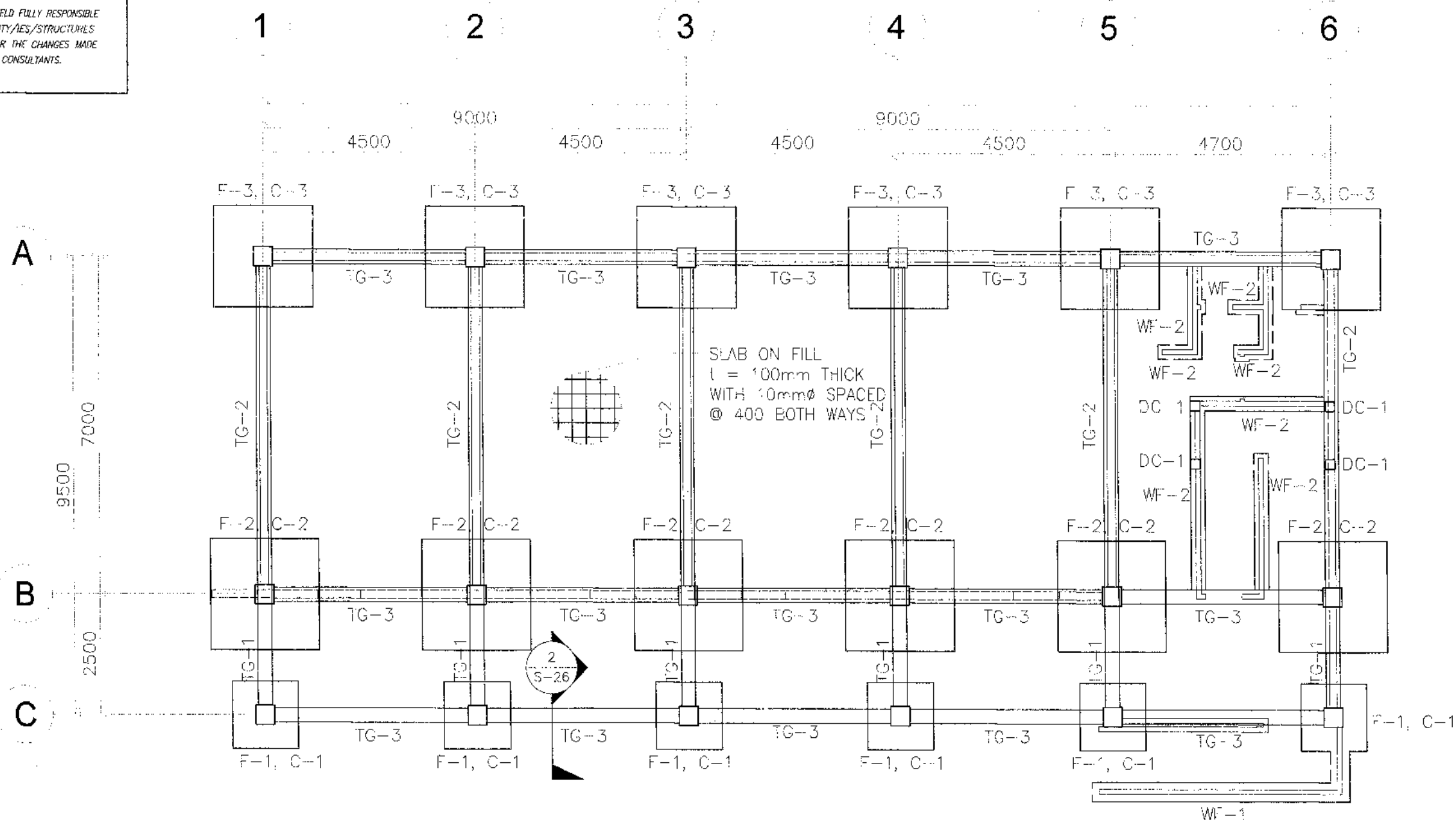
1A CONTROL JOINTS FOR SLAB-ON-FILL
S 7 SCALE NOT TO SCALE

1 STANDARD DETAILS
S 7 SCALE NOT TO SCALE

NOTE:

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1 FOUNDATION PLAN
SCALE 1:100 METERS
S 8



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, DULOP
NATIONAL HIGH SCHOOL, BARANGAY DULOP,
MUNICIPALITY OF DUMINGAG,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

PREPARED
CARMELITO ARENALES JR.
ENGINEER
DATE: 09/24/25

REVIEWED
GRACE YCOMALING
ASST. CHIEF, PLANNING AND DESIGN SECTION
DATE: 09/24/25

SUBMITTED
REMI E. M. ANAYA
ENGINEER
CHIEF, PLANNING AND DESIGN SECTION
DATE: 09/24/25

RECOMMENDED
MARK V. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 09/24/25

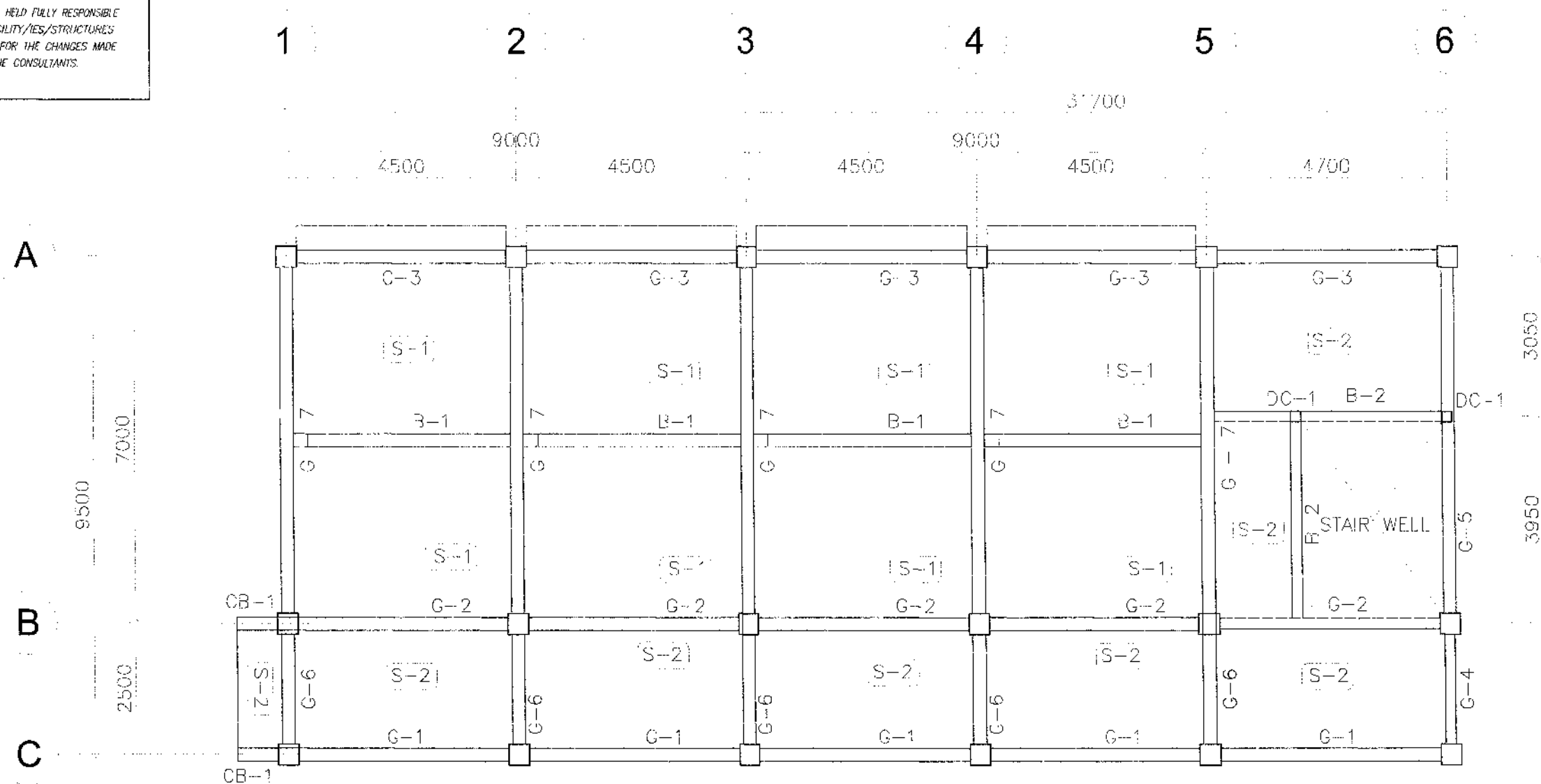
APPROVED
PABLO L. ESQUADRO, MPA
DISTRICT ENGINEER
DATE: 09/24/25

SET NO. 08
SHEET NO. 48
S 37 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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NOTE: SEE SHEET $\frac{16}{S-37}$ FOR SLAB DETAIL (S-1 AND S-2)

1
S9
2ND FLOOR FRAMING 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
PAGADJAN CITY

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

SHEET CONTENTS
AS SHOWN

PREPARED
CARMELITO A. REALES JR.
ENGINEER

REVIEWED
GRACEY L. COMALING
ENGINEER II
ASST. CHIEF PLANNING & DESIGN SECTION

SUBMITTED
BRIAN T. DELA CRUZ
ENGINEER
CHIEF PLANNING & DESIGN SECTION

RECOMMENDED
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER

APPROVED
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER

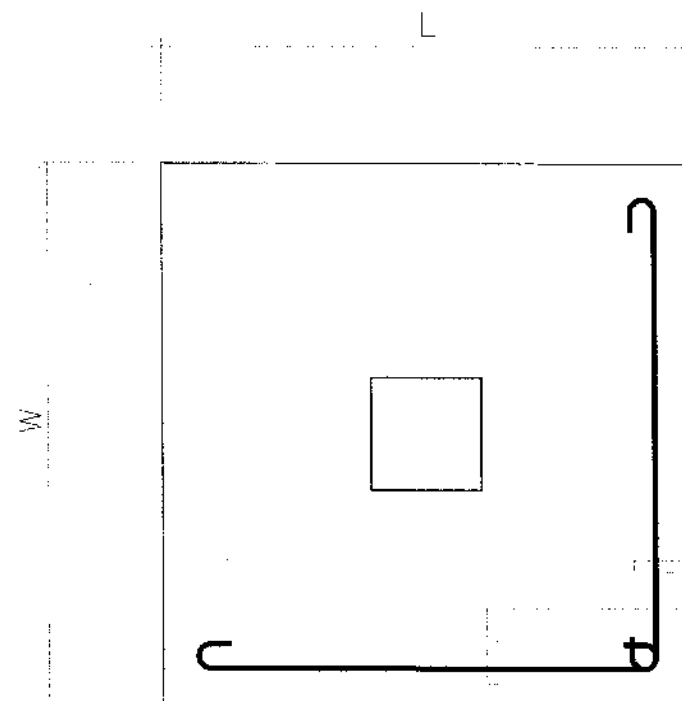
SET NO. 09
SHEET NO. 49
S37 98

SCHEDULE OF FOOTING

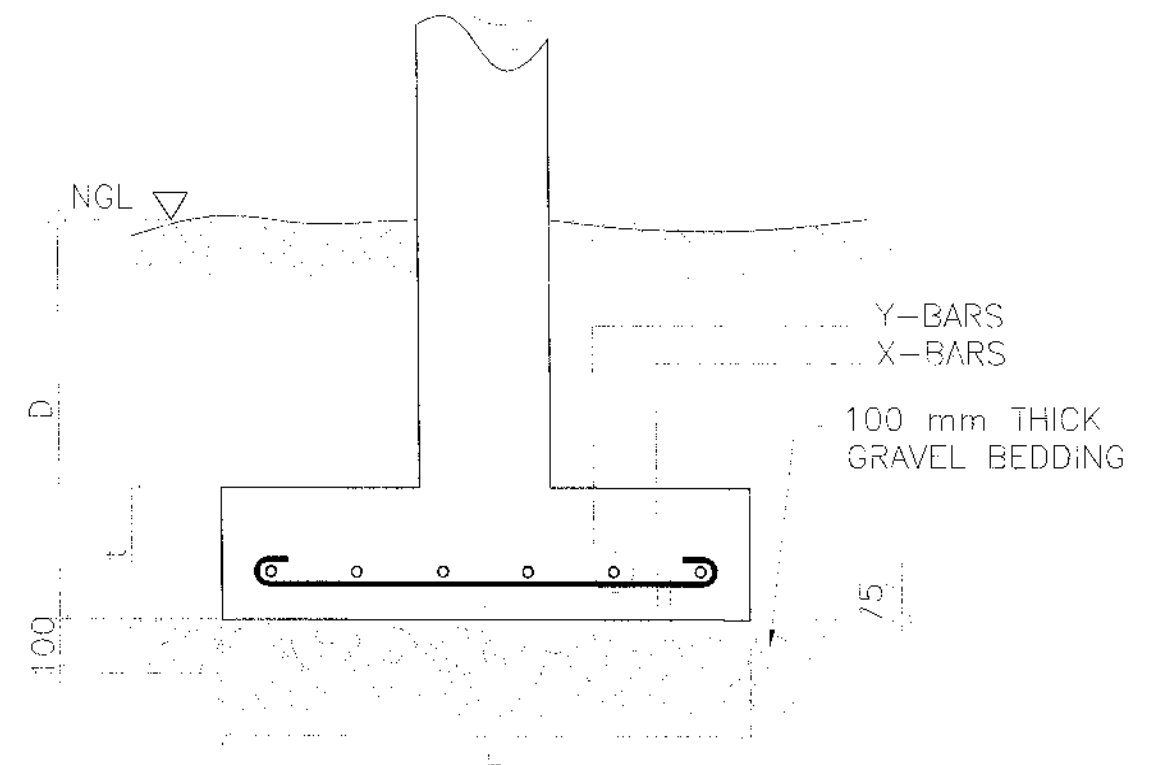
FOOTING MARK	FOOTING DIMENSIONS (mm)				REINFORCEMENT		REMARKS
	LENGTH (L)	WIDTH (W)	DEPTH (D)	Thickness (t)	BAR X	BAR Y	
F-1	1400	1400	2000	350	7 - 20mm ϕ	7 - 20mm ϕ	SQUARE FOOTING
F-2	2300	2300	1500	350	11 - 20mm ϕ	11 - 20mm ϕ	SQUARE FOOTING
F-3	2100	2100	1500	350	10 - 20mm ϕ	10 - 20mm ϕ	SQUARE FOOTING

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 9154, 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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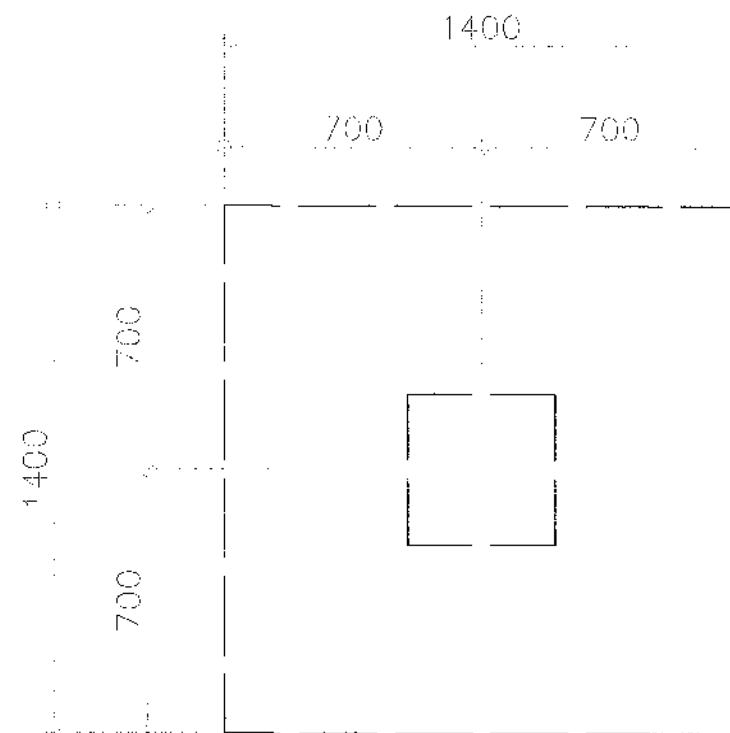


PLAN



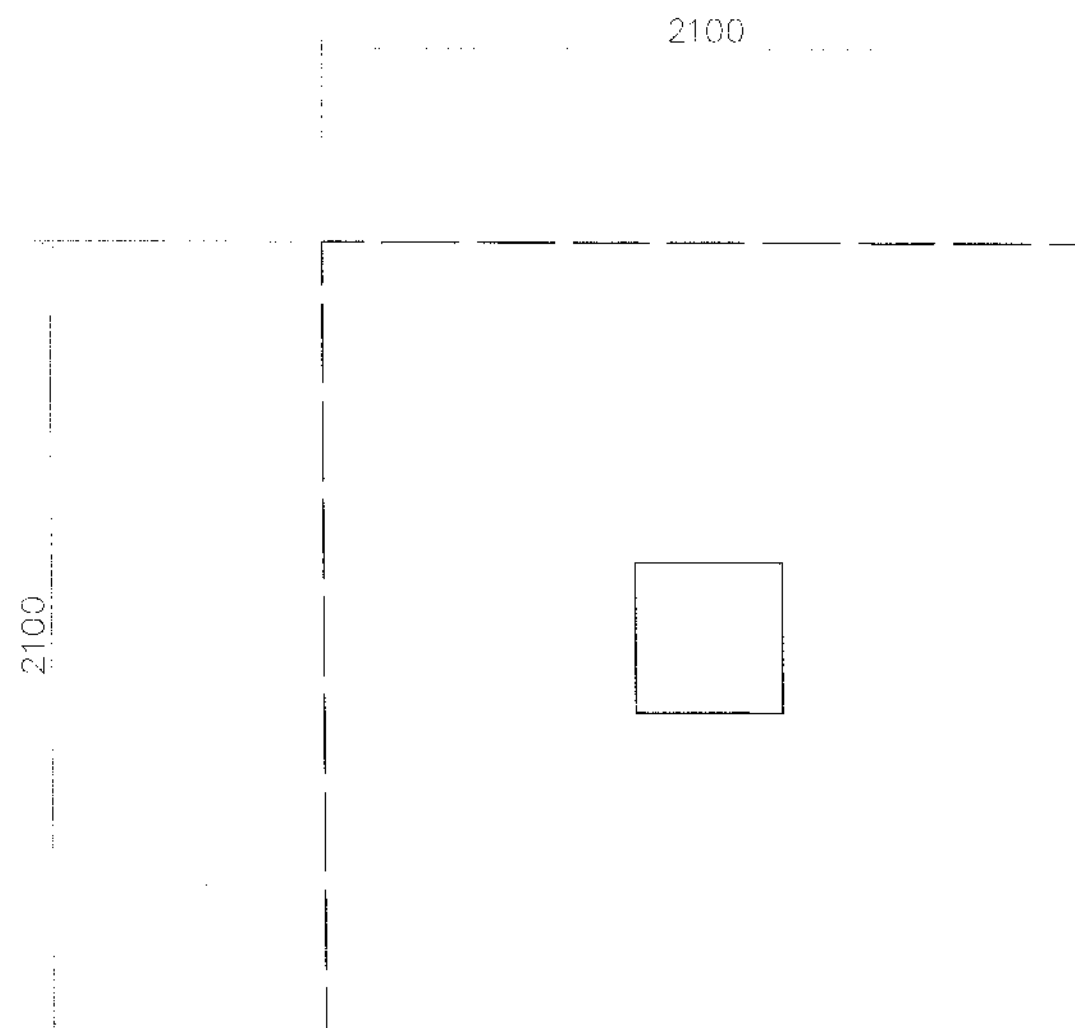
SECTION

1
S10 SCALE NOT TO SCALE



NOTE:
FOOTING & COLUMN
REBARS NOT SHOWN
FOR CLARITY

1 PLAN FOOTING F-1
S11 SCALE 1:20M



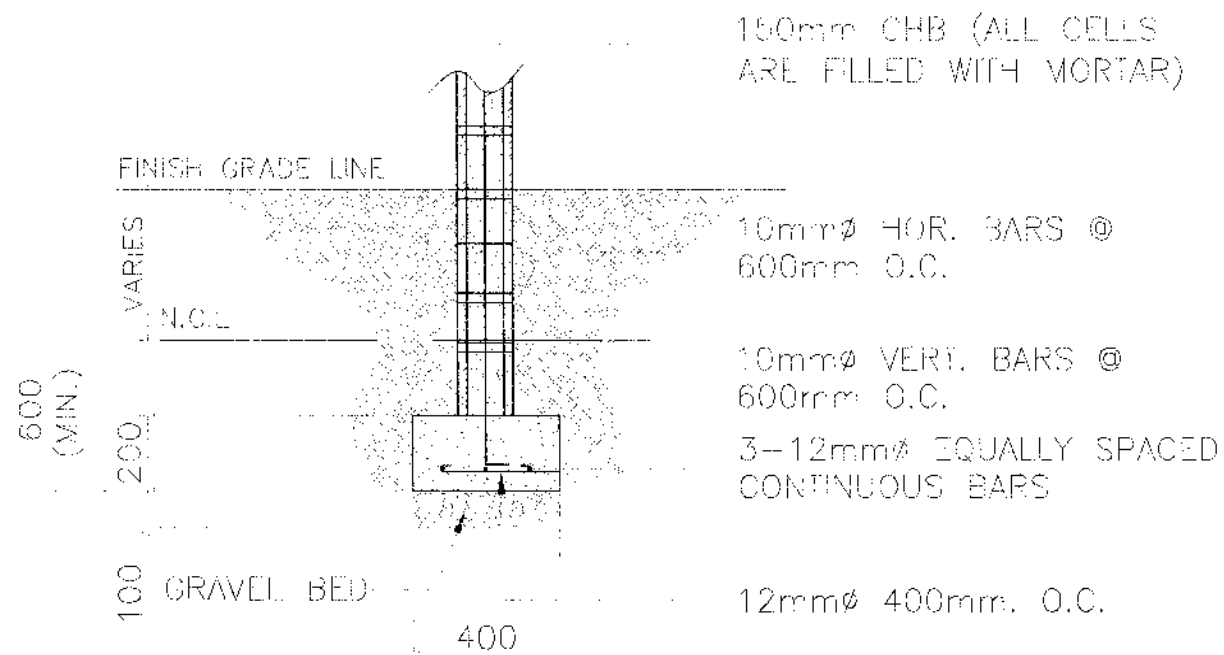
NOTE:
FOOTING & COLUMN
REBARS NOT SHOWN
FOR CLARITY

2 PLAN FOOTING F-2 OR F3
S11 SCALE 1:20 METERS

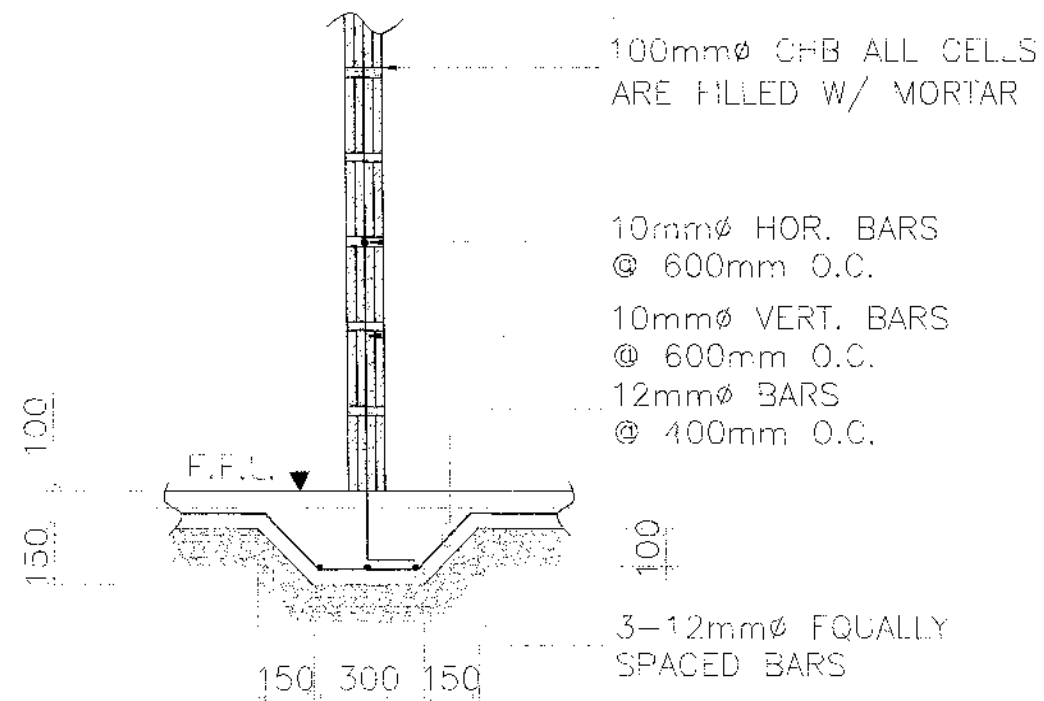
NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE
REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184,
APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED
ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS
NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER
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DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE
WITHOUT THE CONFORMITY OF THE CONSULTANTS.

	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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR	SHEET CONTENTS: • AS SHOWN	PREPARED CARMELITO R. REALES, JR. ENGINEER DATE: 07/24/25	REVIEWED GRACE Y. COMALING ENGINEER ASST. CHIEF PLANNING AND DESIGN SECTION DATE: 07/26/25	RECOMMENDED ERMA M. VILLANUEVA ENGINEER CHIEF PLANNING AND DESIGN SECTION DATE: 07/28/25	APPROVED MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 07/29/25	APPROVED PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 07/29/25	SET NO. 11 S37	SHEET NO. 51 98
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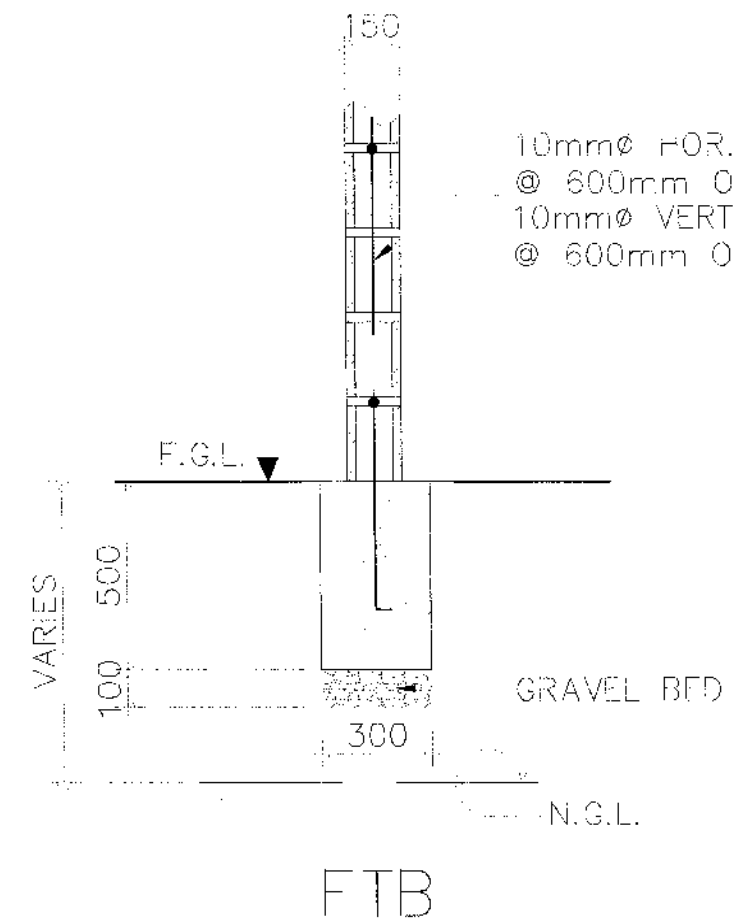


WF-1 SECTION



WF-2 SECTION

1 DETAIL OF WALL FOOTINGS
S12 SCALE 1:20 METERS



2 DET. OF WALL ON FTB
S12 SCALE 1:20 METERS

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REALED IMPLEMENTING RULES AND REGULATION OF R.A. 9154, 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.

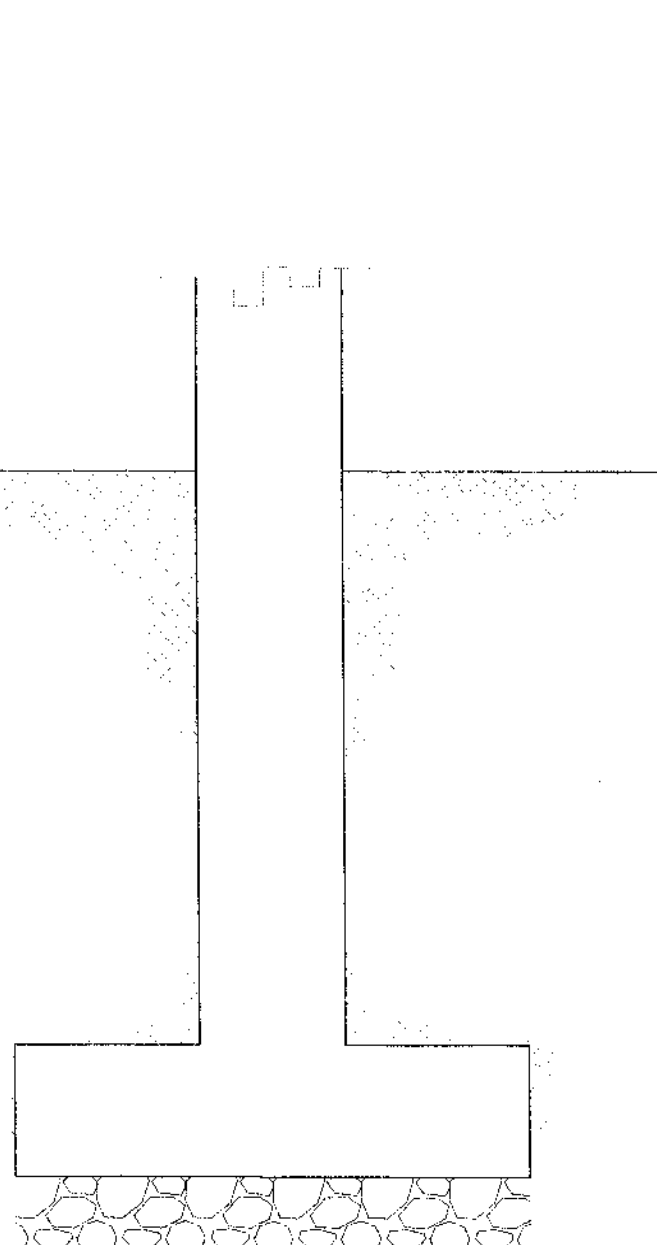
THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS

NOTE:
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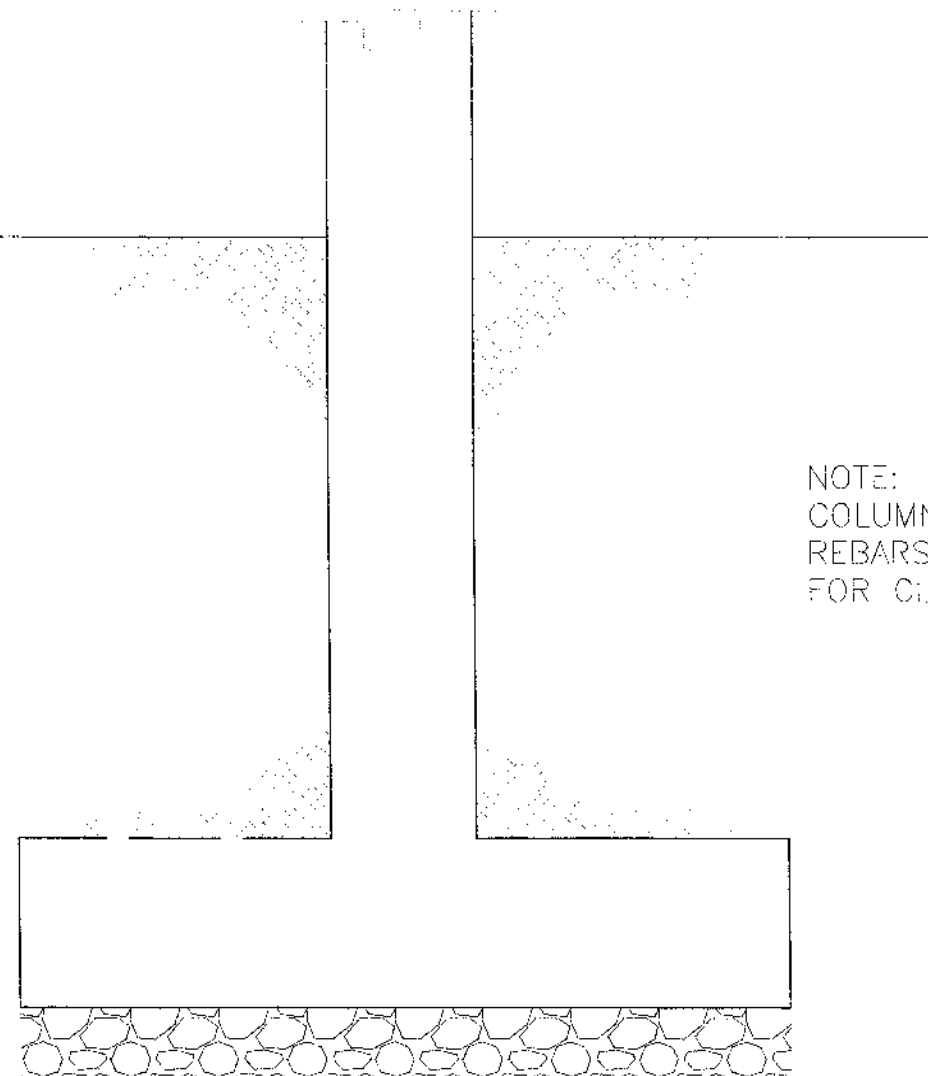
NOTE:

1. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE GROUT, f_c , SHALL BE 20.6 MPa (3,000 PSI)
2. THE MINIMUM YIELD STRENGTH OF REINFORCING BARS OF REINFORCING BARS f_y SHALL BE 275 MPa (40,000 PSI).



1
S13 SCALE 1:20 METERS
ELEV. FOOTING F-1

NOTE:
COLUMN & FOOTING
REBARS NOT SHOWN
FOR CLARITY.



NOTE:
COLUMN & FOOTING
REBARS NOT SHOWN
FOR CLARITY.

2
S13 SCALE 1:20 METERS
ELEV. FOOTING F-2 OR F-3



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

PROJECT NAME AND LOCATION
CONSTRUCTION OF SCHOOL BUILDING, DULOP
NATIONAL HIGH SCHOOL, BARANGAY DULOP,
MUNICIPALITY OF DUMINGAG,
ZAMBOANGA DEL SUR

SHEET CONTENTS

- AS SHOWN

PREPARED

CARMELITO PENALES JR.
ENGINEER II
DATE: 10/24/23

REVIEWED

GRACE Y. COMALING
ENGINEER II
DATE: 10/24/23

SUBMITTED

BEATRIZ VILLANUEVA
ENGINEER III
DATE: 10/24/23

RECOMMENDED

MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 09/29/23

APPROVED

PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE: 10/24/23

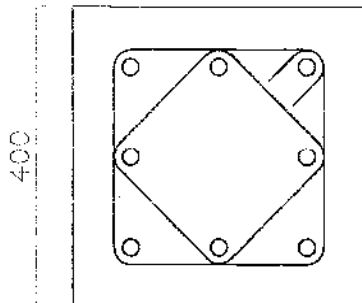
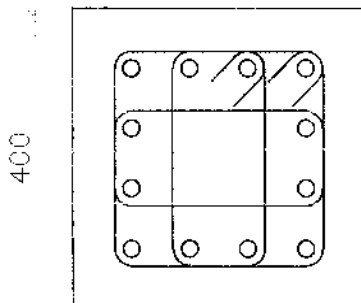
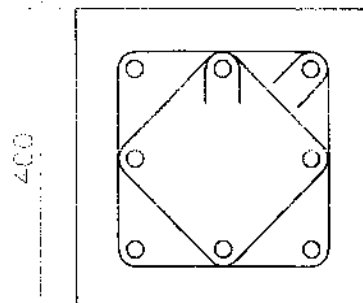
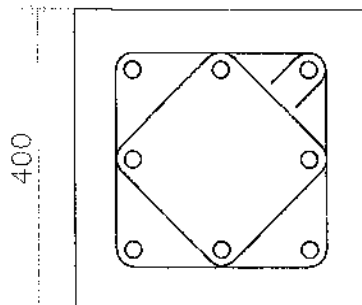
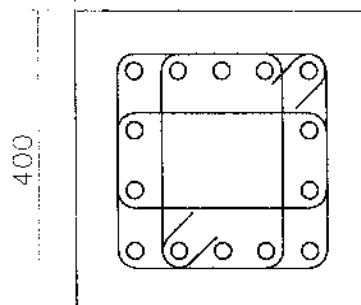
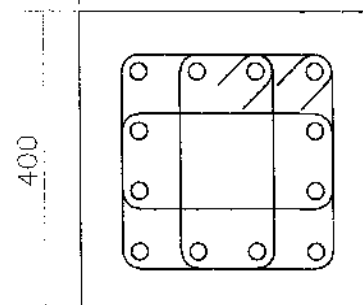
SET NO.

13
S37

SHEET NO.

53
98

COLUMNSCHEDULE

LEVEL	C-1	C-2	C-3
2ND FLOOR LEVEL TO ROOF LEVEL	 MAIN BAR: 8-20mmϕ TIES : 10mmϕ 1@50, 8@75, REST @ 150mm TO CENTER	 MAIN BAR: 12-25mmϕ TIES : 10mmϕ 1@50, 8@75, REST @ 150mm TO CENTER	 MAIN BAR: 8-25mmϕ TIES : 10mmϕ 1@50, 8@75, REST @ 150mm TO CENTER
FOUNDATION LEVEL TO 2ND FLOOR LEVEL	 MAIN BAR: 8-20mmϕ TIES : 10mmϕ 1@50, 8@75, REST @ 150mm TO CENTER	 MAIN BAR: 14-25mmϕ TIES : 10mmϕ 1@50, 8@75, REST @ 150mm TO CENTER	 MAIN BAR: 12-25mmϕ TIES : 10mmϕ 1@50, 8@75, REST @ 150mm TO CENTER

NOTE:
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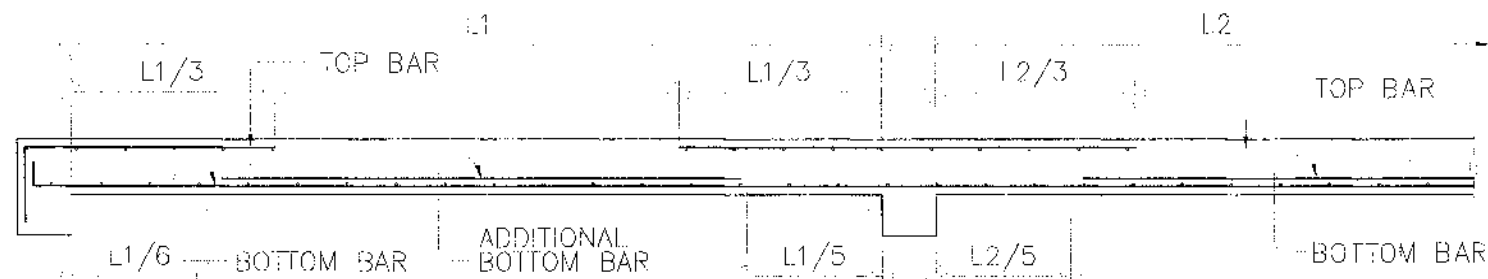


5) SCALE 1:40 METERS

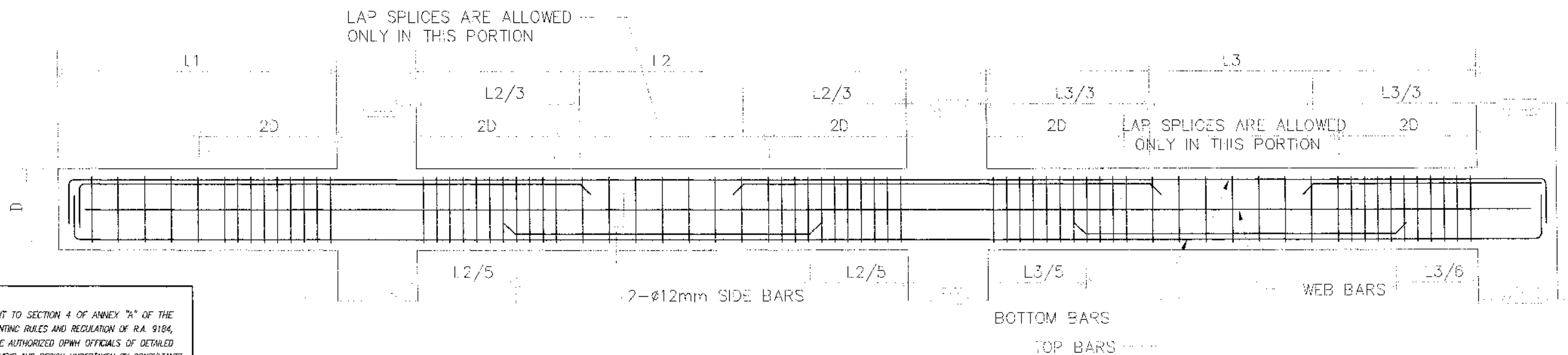
~~ELEVATION~~

SCHEDULE OF SLABS

FLOOR LEVEL	SLAB MARK	THICK- NESS in mm	REBAR SPACING ALONG SHORT DIRECTION in mm								REBAR SPACING ALONG LONG DIRECTION in mm								REMARKS
			REBAR SIZE	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		REBAR SIZE	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT				
				TOP	BOTT.	TOP	BOTT.	ADDITIONAL BOT. BARS (if any)	TOP		BOTT.	TOP	BOTT.	ADDITIONAL BOT. BARS (if any)	TOP	BOTT.			
SECOND LEVEL	S-1	100	Ø10mm	150	300	-	300	300	150	300	Ø10mm	250	300	-	300	300	250	300	TWO WAY. FOR ADD'L BOT. BARS PLACED IN BETWEEN THE BOTTOM CONTINUOUS BARS.
	S-2	100	Ø10mm	200	300	-	300	300	200	300	Ø10mm	300	300	-	300	300	300	300	TWO WAY. FOR ADD'L BOT. BARS PLACED IN BETWEEN THE BOTTOM CONTINUOUS BARS.



1
S16 SCALE NOT TO SCALE
TYPICAL SLAB ELEVATION



2
S16 SCALE NOT TO SCALE
TYPICAL BEAM ELEVATION

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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NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 5464, 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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B E A M S C H E D U L E

FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (in / mm)		S T E E L R E I N F O R C E M E N T S						12mmØ WEB BAR	S T I R R U P S	
		b	h	REBAR (mm Ø)	LEFT		MID SPAN		RIGHT		Ø10mm (UNLESS NOTED OTHERWISE)	
					TOP	BOTTOM	TOP	BOTTOM	TOP			BOTTOM
2ND FLOOR LEVEL	G-1	250	400	Ø20mm	3	2	2	3	3	2		1Ø50, 6Ø100, RESTØ175
	G-2	250	400	Ø20mm	4	2	2	3	4	2		1Ø50, 6Ø100, RESTØ175
	G-3	250	400	Ø20mm	4	2	2	3	4	2		1Ø50, 6Ø100, RESTØ175
	G-4	250	400	Ø20mm	2	2	2	2	5	3		1Ø50, 6Ø100, RESTØ175
	G-5	250	500	Ø20mm	5	3	2	4	5	3	2	1Ø50, 8Ø100, RESTØ200
	G-6	250	400	Ø20mm	2	2	2	2	5	3		1Ø50, 6Ø100, RESTØ175
	G-7	250	500	Ø20mm	6	3	2	6	6	3	2	1Ø50, 10Ø100, RESTØ200
	B-1	250	400	Ø16mm	4	2	2	3	4	2		1Ø50, 6Ø100, RESTØ175
	B-2	200	400	Ø16mm	2	2	2	4	2	2		1Ø50, 6Ø100, RESTØ175
	CB-1	250	400	Ø16mm	4	2	4	2	4	2		1Ø50, 10Ø100, RESTØ150
ROOF LEVEL	RG-1	200	400	Ø20mm	2	2	2	2	2	2		1Ø50, 6Ø100, RESTØ200
	RG-2	200	500	Ø20mm	5	3	2	3	4	3	2	1Ø50, 10Ø100, RESTØ200
FOOTING TIE BEAM	TG-1	300	500	Ø20mm	3	3	3	3	4	3	2	1Ø50, 6Ø100, RESTØ200
	TG-2	300	500	Ø20mm	4	3	3	3	4	3	2	1Ø50, 10Ø100, RESTØ200
	TG-3	300	500	Ø20mm	3	3	3	3	3	3	2	1Ø50, 6Ø100, RESTØ200
STAIR BEAM	STB-1	200	400	Ø16mm	3	2	2	4	3	2		1Ø50, 6Ø100, RESTØ175
	STB-2	200	400	Ø16mm	4	2	2	4	4	2	2	1Ø50, 8Ø100, RESTØ200



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

PROJECT NAME AND LOCATION
CONSTRUCTION OF SCHOOL BUILDING, DULOP
NATIONAL HIGH SCHOOL, BARANGAY DULOP,
MUNICIPALITY OF DUMINGAG,
ZAMBOANGA DEL SUR

REVISION CONTENTS

• AS SHOWN

PREPARED

CARMELITO APENALES JR.
ENGINEER

DATE

REVIEWED

GRACEY COMALING
ENGINEER II

DATE

SUBMITTED

BRIAN B. NUVEA
ENGINEER II

DATE

RECOMMENDED

MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER

DATE

APPROVED

PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER

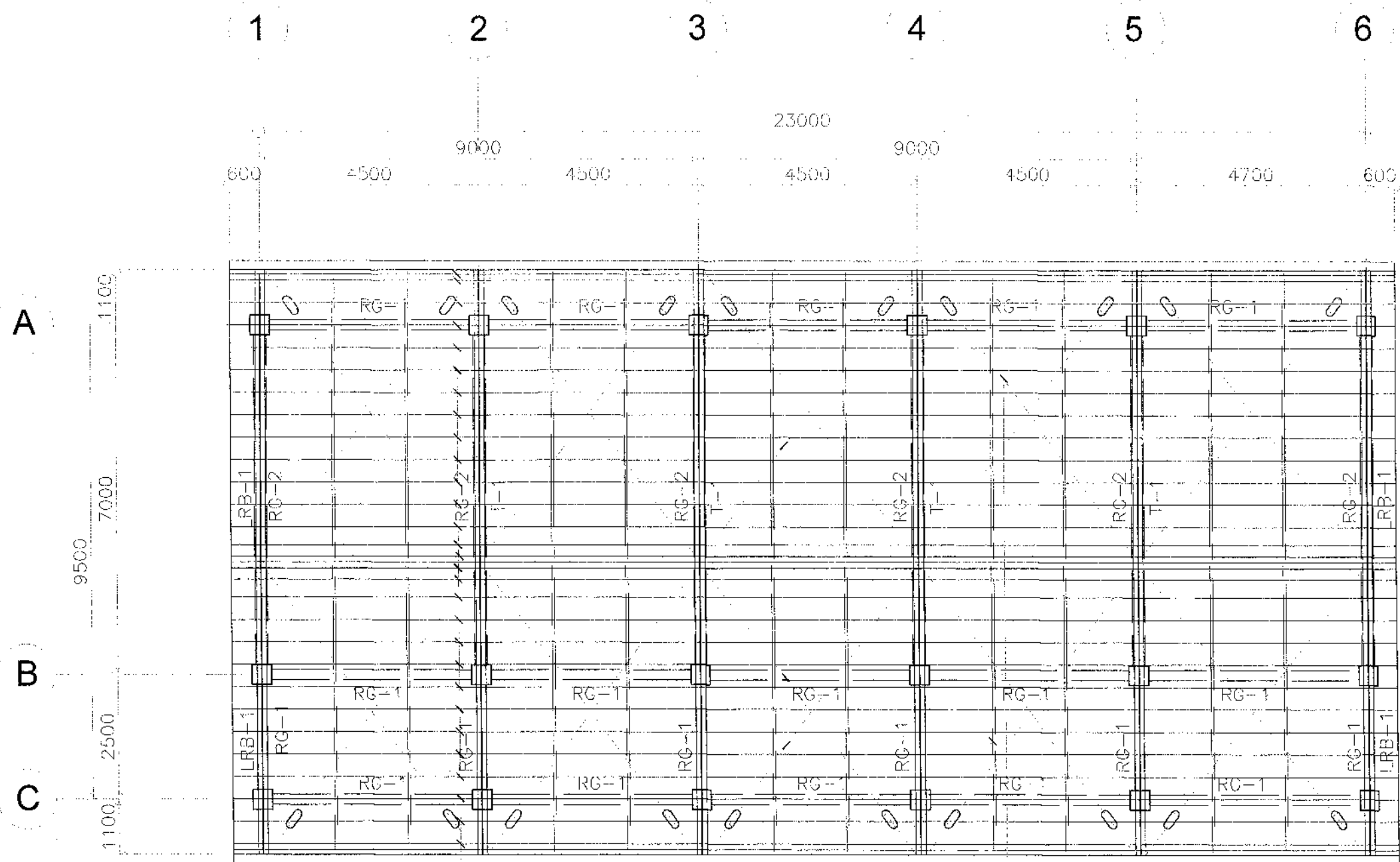
DATE

SHEET NO.

17
S37

SHEET NO.

57
98



LC-150 x 65 x 20 x 2.0mm
PURLINS @ 500mm O.C.

12mm ϕ SAC RODS @
THIRD-POINT, STAGGERED

16mm ϕ STEEL CROSS-BRACINGS
w/ STD. TURN-BUCKLE AS SHOWN

NOTE:

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1
S18 ROOF FRAMING 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
PASADIAN CITY

PROJECT NAME AND LOCATION
CONSTRUCTION OF SCHOOL BUILDING, DULOP
NATIONAL HIGH SCHOOL, BARANGAY DULOP,
MUNICIPALITY OF DUMINGAG,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

DESIGNED BY
CARMELITO A. PENALES JR.
DATE: 07/21/25

REVIEWED
GRACEY COMALING
ENGINEER
ASST. CHIEF ENGINEER
DATE: 07/21/25

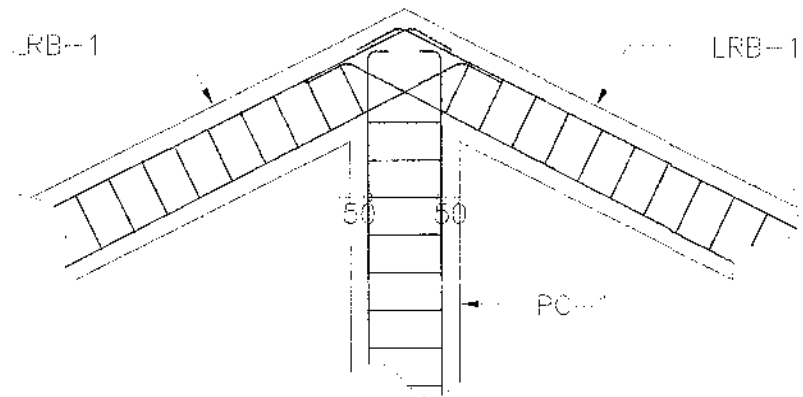
SUBMITTED BY
BRIAN R. VILLANUEVA
ENGINEER II
CH. E. ENGINEER
DATE: 07/21/25

RECOMMENDED
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 07/21/25

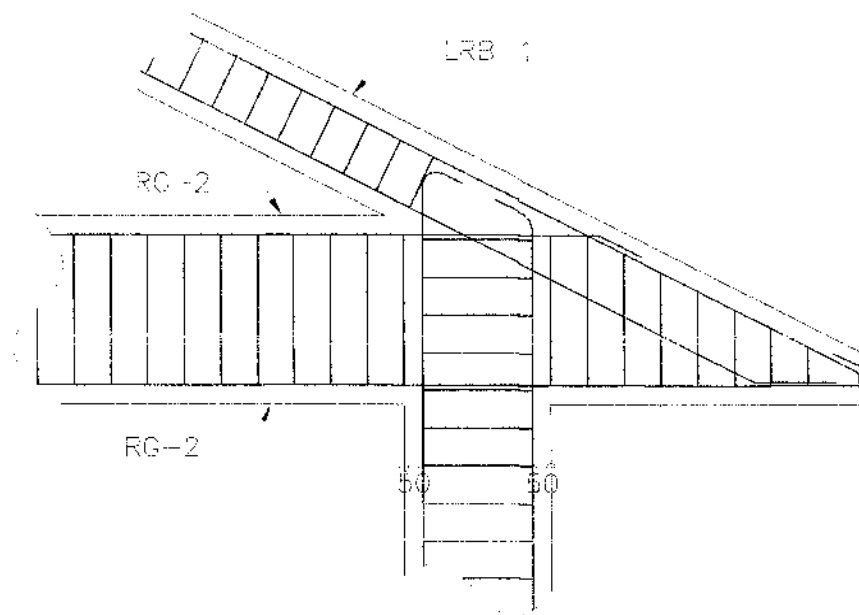
APPROVED
PABLO L. ESCUDERO, MPA
DISTRICT ENGINEER
DATE: 07/21/25

SET NO.
18
S37

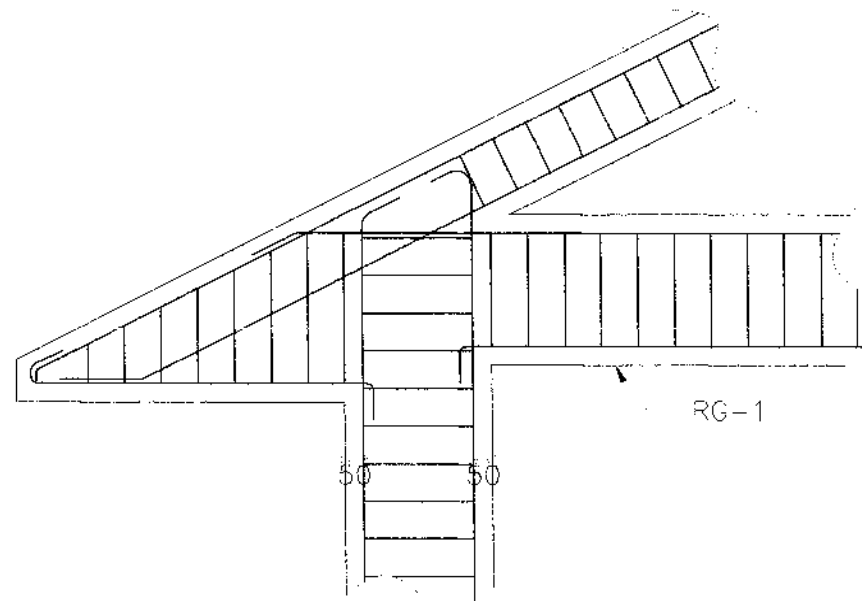
SHEET NO.
58
98



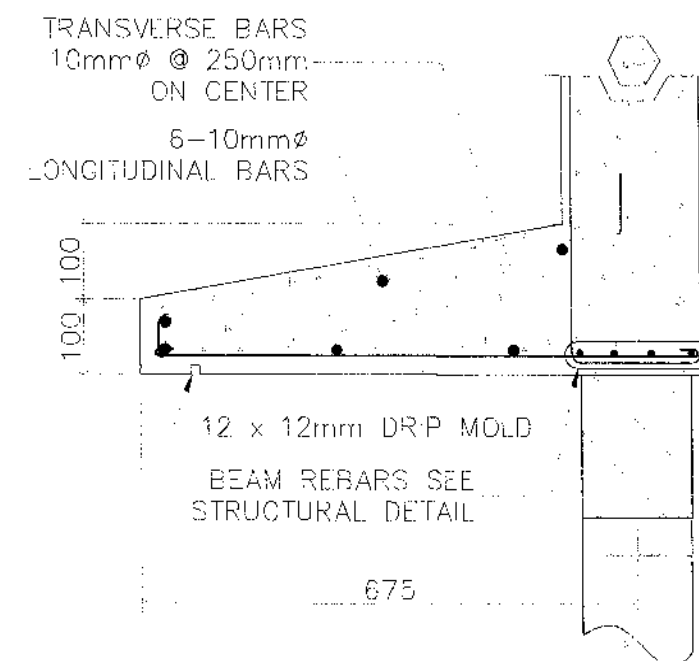
1 DETAIL
S19 SCALE 1:80 METERS



2 DETAIL
S19 SCALE 1:20 METERS



3 DETAIL
S19 SCALE 1:20 METERS



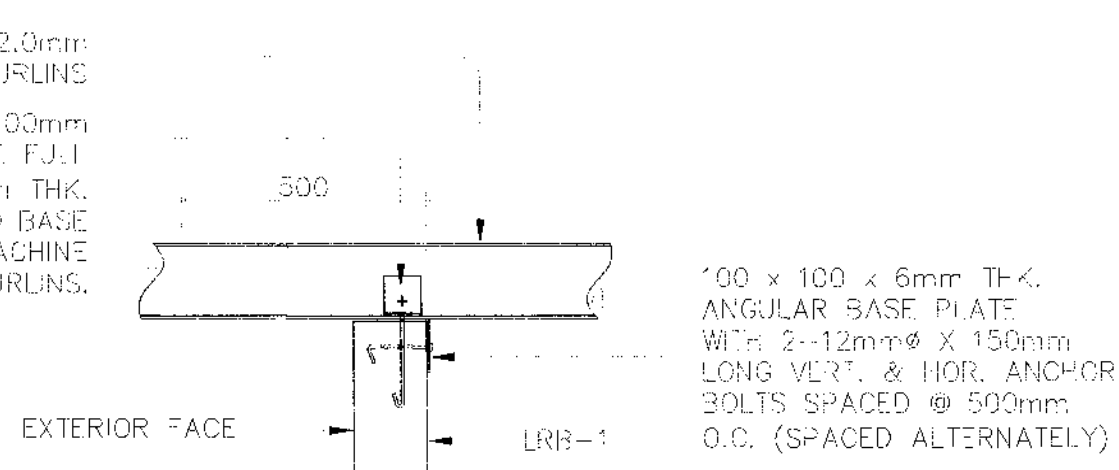
4 CONCRETE SUNBREAKER DETAIL
S19 SCALE 1:10 METERS

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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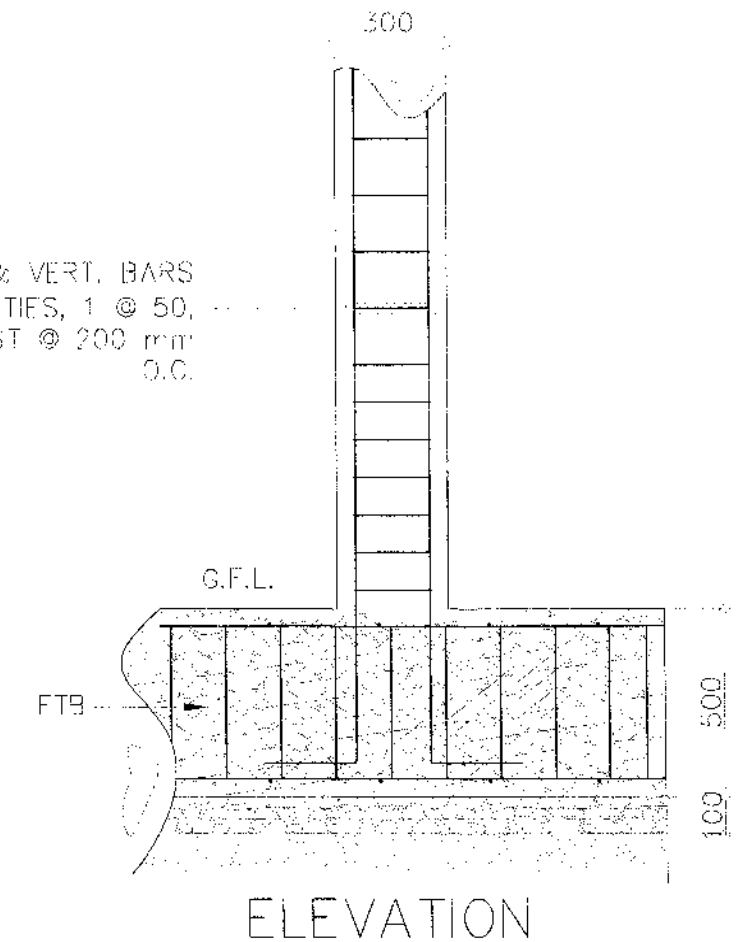
150 x 65 x 20 x 2.0mm
LC PURLINS

75 x 75 x 6mm x 100mm
LONG CLIP ANGLE FULL
WEILD W/ 3mm THK.
FILLET WELD @ BASE
PLATE x 6mm Ø MACHINE
BOLT @ PURLINS.



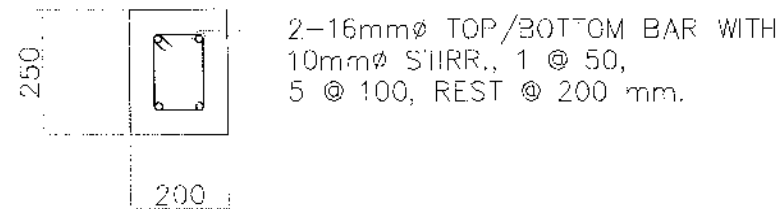
100 x 100 x 6mm THK.
ANGULAR BASE PLATE
WITH 2-12mmØ X 150mm
LONG VERT. & HOR. ANCHOR
BOLTS SPACED @ 500mm
O.C. (SPACED ALTERNATELY)

4-12mmØ & VERT. BARS
W/ 10mmØ TIES, 1 @ 50,
2 @ 100 REST @ 200 mm
O.C.

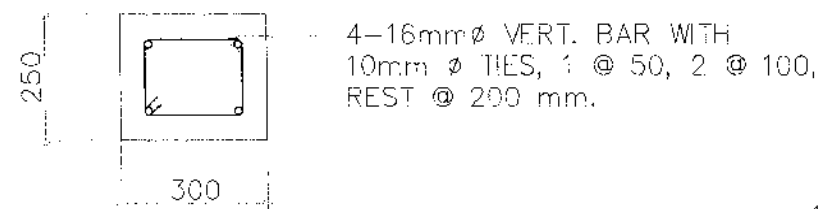


1 CONNECTION OF PURLINS TO LRB-1

SCALE 1:15 METERS



LRB-1



PC - 1

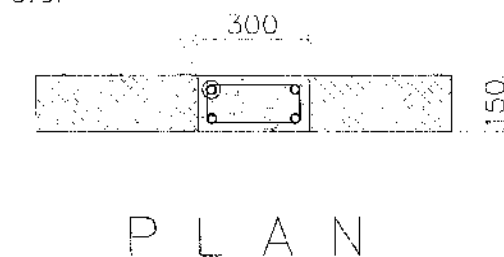
4-12mmØ VERT. BARS
W/ 10mmØ TIES; 1 @ 50,
2 @ 100, REST @ 200mm
O.C.

2 DET. SECTION OF LRB-1 AND PC-1

SCALE 1:15 METERS

NOTE:
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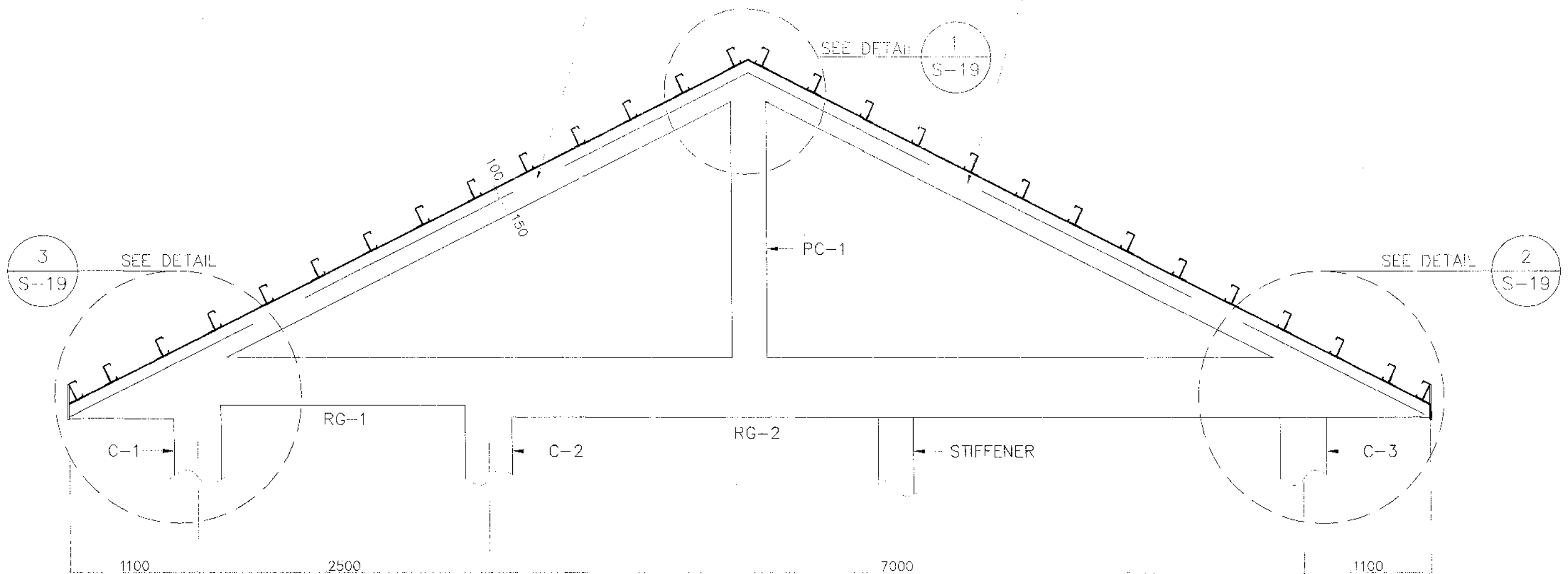
THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE
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DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE
WITHOUT THE CONFORMITY OF THE CONSULTANTS.



3 STIFFENER DETAIL

SCALE 1:20 METERS

100 x 100 x 6mm THK.
ANGULAR BASE PLATE



ELEV. OF END WALL FRAME
SCALE 1:35 METERS

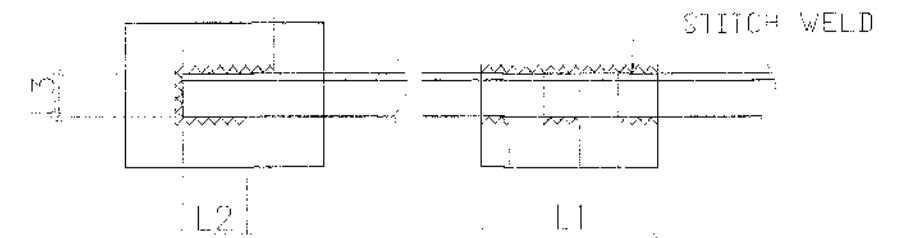
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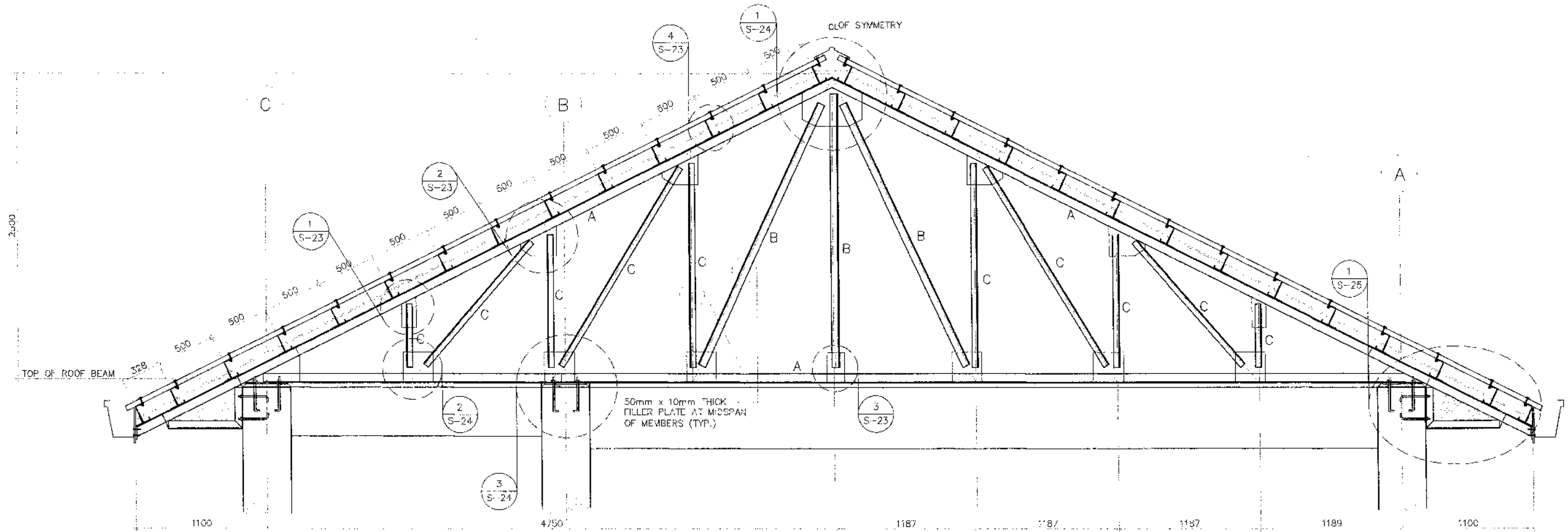
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADJIAN CITY	PROJECT NAME AND LOCATION CONSTRUCTION OF SCHOOL BUILDING, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR	SHEET CONTENTS • AS SHOWN	PREPARED CARMELITO A. REINALES JR. ENGINEER DATE: 07/14/15	REVISED GRACEY COMALING ENGINEER DATE: 07/14/15	SUBMITTED BRIEN DE VILLANUEVA ENGINEER DATE: 07/14/15	RECOMMENDED MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 07/29/15	APPROVED FRANCIS ESCOBAR, RPA DISTRICT ENGINEER DATE: 07/29/15	SHEET NO. 21	SHEET NO. 61
	DATE: 07/29/15								21

SCHEDULE OF TRUSSES MEMBERS AND WELDS

NAME	SIZE TRUSS MEMBERS mm	THICKNESS	WELDS (mm)			REMARKS
			L1	L2	L3	
A	2Ls-75 x 75 x 6 (A) (TOP/BOTTOM CHORDS)	6	FULL WELD			
B	2Ls-65 x 65 x 6 (B)	6	125	100	65	
C	2Ls-50 x 50 x 6 (C)	6	100	75	50	



2 WELD DETAIL
SCALE NOT TO SCALE



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1 TRUSS -1 ELEVATION
SCALE 1:35 METERS

1
S23

DETAIL - 1

SCALE 1:10 METERS

2
S23

DETAIL - 2

SCALE 1:10 METERS

4
S23

CONN. OF G.I. SHEET ROOFING TO PURLIN

SCALE

1:5 METERS

3
S23

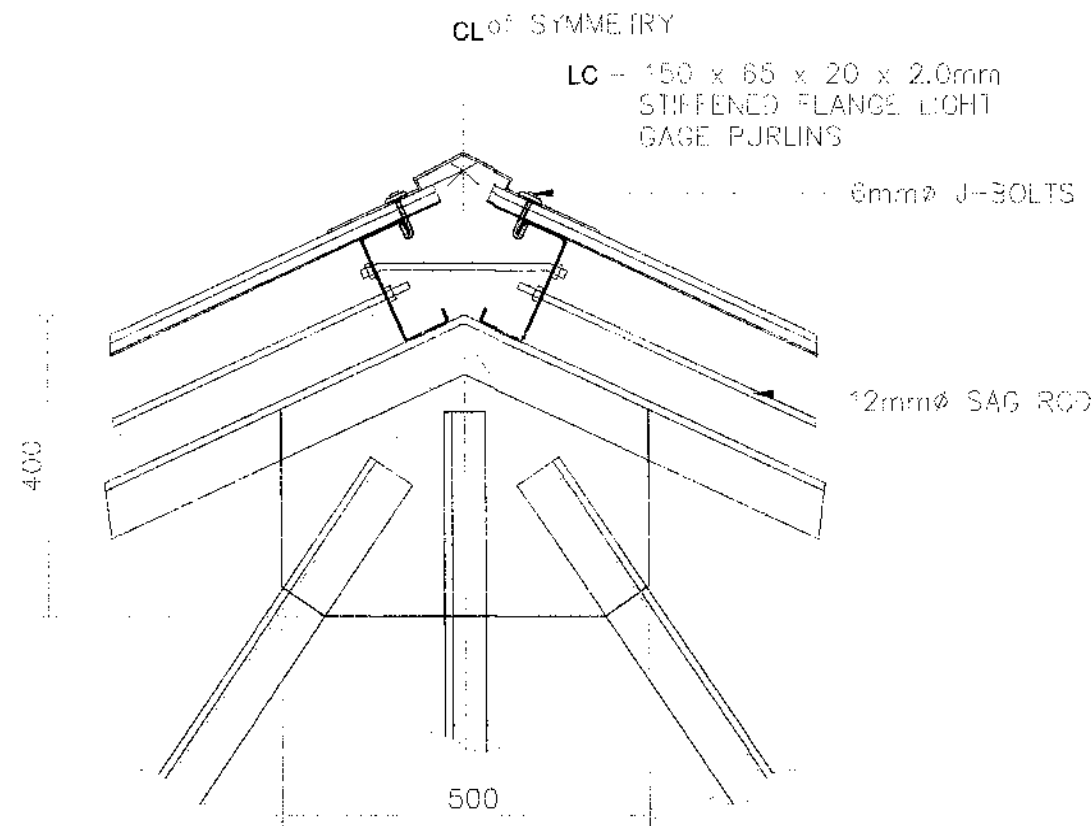
DETAIL

SCALE 1:10 METERS

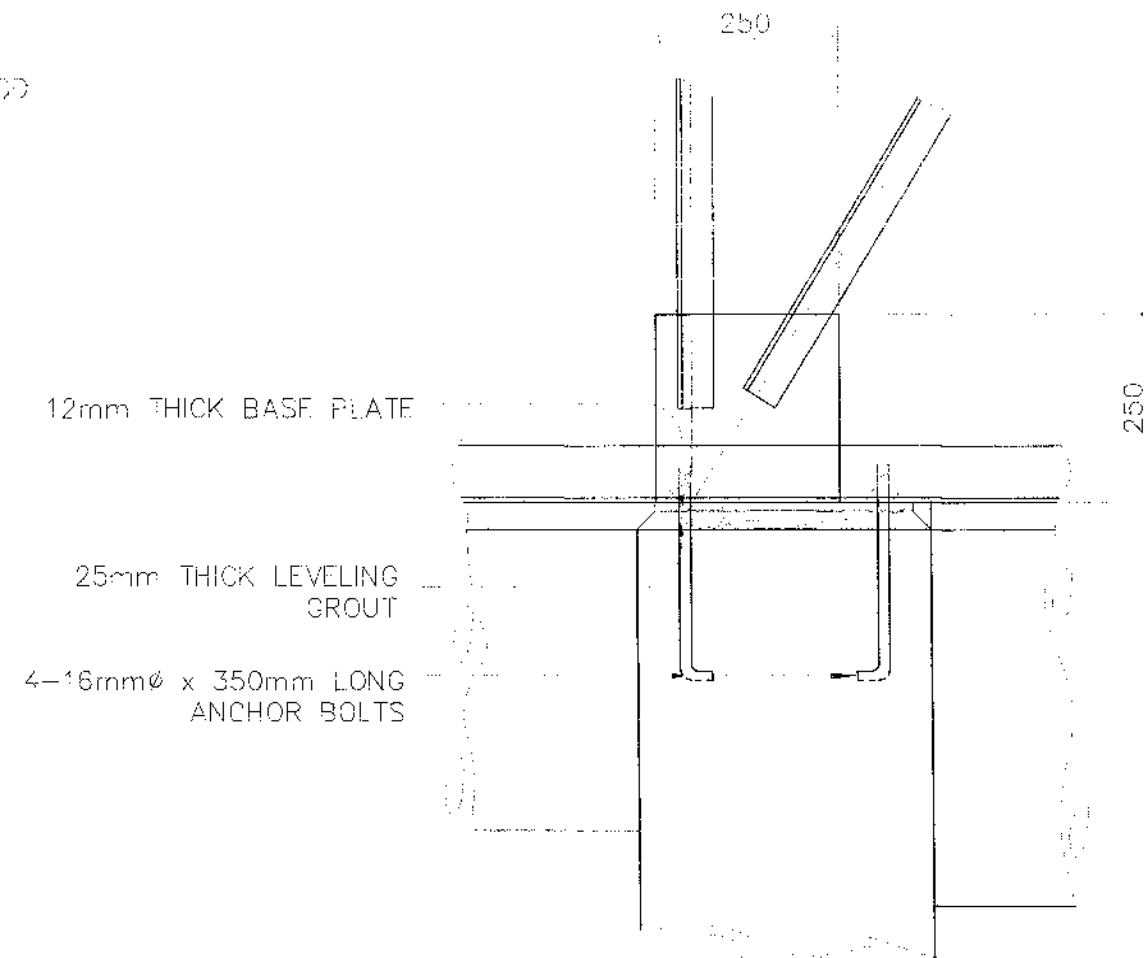
5 DETAIL CONN. OF CROSS-BRACING
S23 SCALE 1:10 METERS

NOTE: PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF RA. 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.

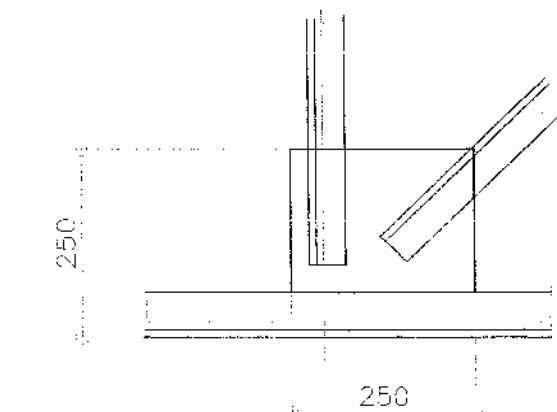
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1 **DETAIL - 3**
S24 SCALE 1:10 METERS



3 **TRUSS - BEAM CONNECTION DETAIL**
S24 SCALE 1:10 METERS



2 **DETAIL - 4**
S24 SCALE 1:10 METERS

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
PAGADJIAN CITY

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

SHEET CONTENTS:

• AS SHOWN

PREPARED

CARMELITO APENALES JR.
ENGINEER

DATE

REVIEWED

GRACEY CORRALING
ENGINEER III

DATE

SUBMITTED

ERIANE VILLARUEVA
ENGINEER III

DATE

RECOMMENDED

MARIA N. FLOREN
ASSISTANT DISTRICT ENGINEER

DATE

APPROVED

PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER

DATE

SST NO.

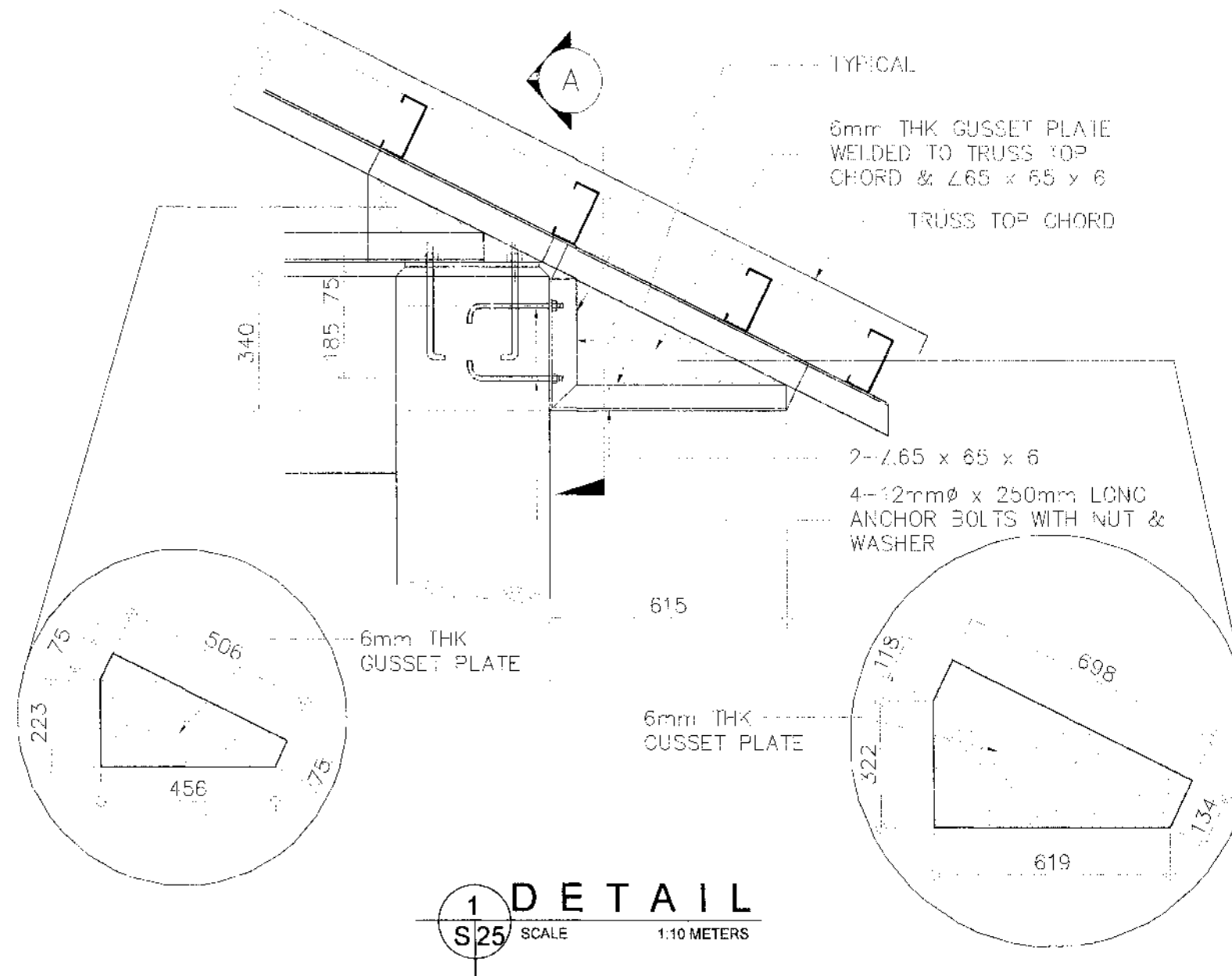
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S37

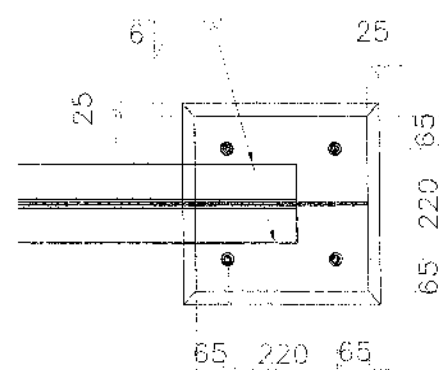
SHEET NO.

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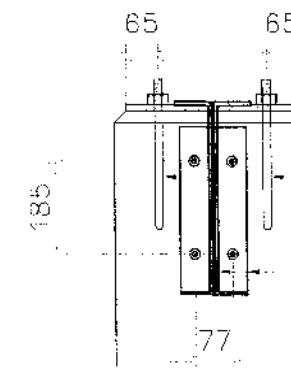
98



1
S25
SCALE 1:10 METERS



PLAN



SECTION A

4-16mmØ x 350mm LONG
ANCHOR BOLTS
2-L65 x 65 x 6

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, DULOP
NATIONAL HIGH SCHOOL, BARANGAY DULOP,
MUNICIPALITY OF DUMINGAG,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

PREPARED
CARMELITO DE LA ROSA JR.
ENGINEER
DATE 12/28/15

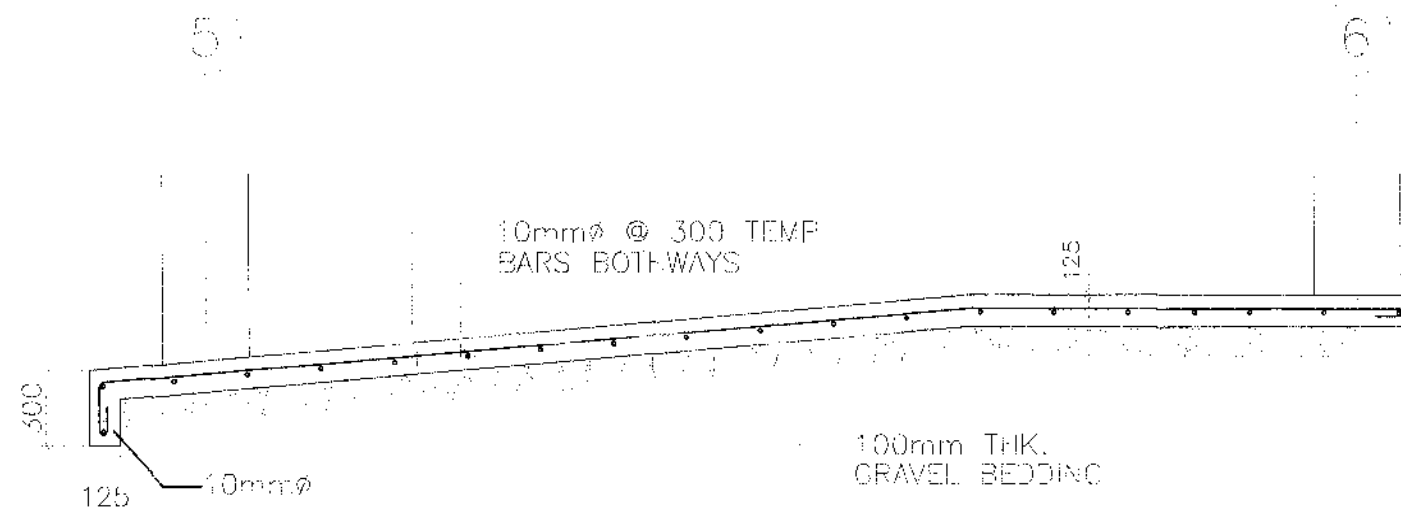
REVIEWED
GRACE Y. DOMALING
ENGINEER
ASST. CHIEF PLANNING AND DESIGN SECTION
DATE 12/28/15

SUBMITTED
BRIAN P. MANTANA
ENGINEER IN CHARGE
DATE 12/28/15

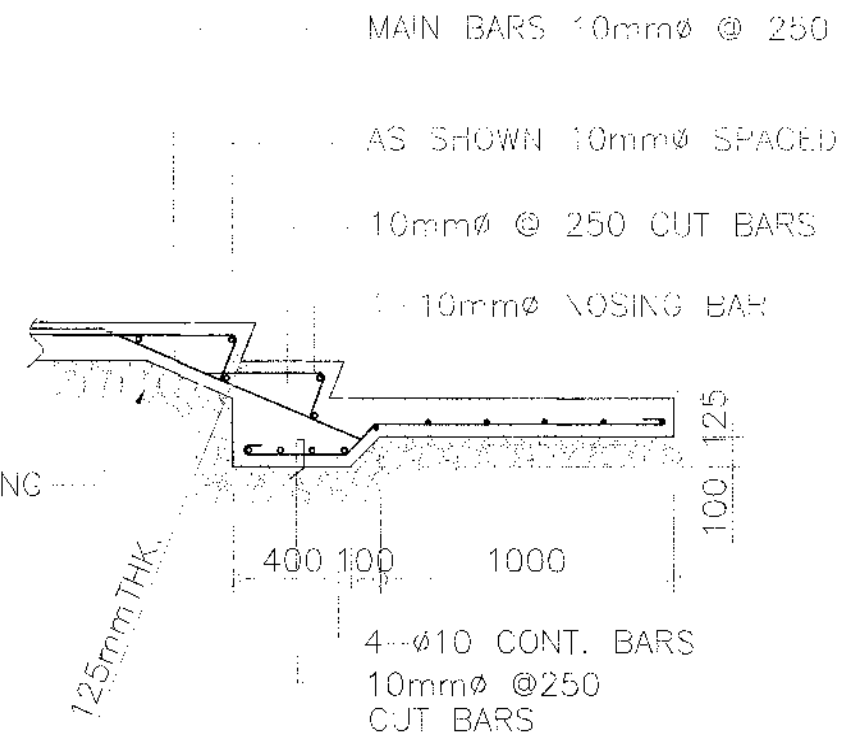
RECOMMENDED
MARIA V. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE 12/28/15

APPROVED
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE 12/28/15

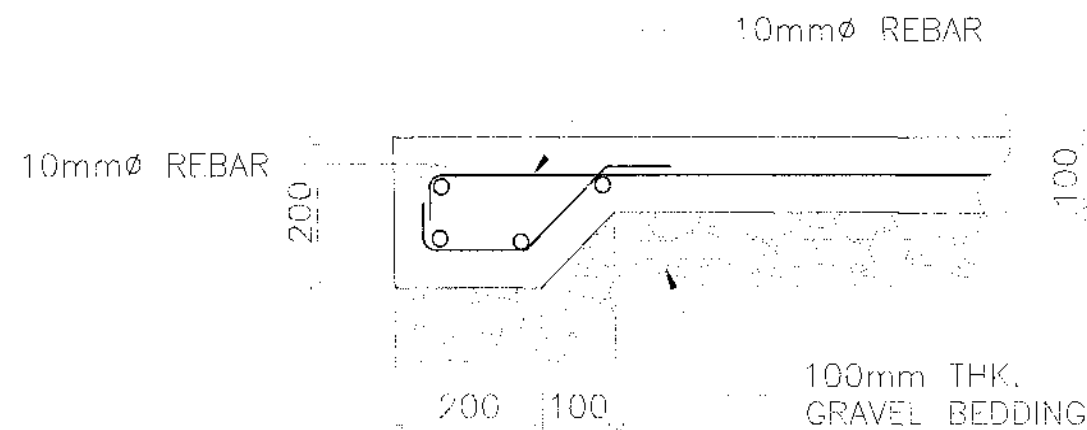
SET NO. 25
SHEET NO. 65
S37 98



1 RAMP DETAIL
S26 SCALE 1:30 METERS



2 DET. OF STAIR ON GRADE
S26 SCALE 1:25 METERS



3 DETAIL
S26 SCALE 1:20 METERS

NOTE:

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DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE IX
ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE
PARADIGAN CITY

PROJECT NAME AND LOCATION
CONSTRUCTION OF SCHOOL BUILDING, DULOP
NATIONAL HIGH SCHOOL, BARANGAY DULOP,
MUNICIPALITY OF DUMINGAG,
ZAMBOANGA DEL SUR

SHEET CONTENTS

• AS SHOWN

PREPARED

CARMELITO A. PENALES, JR.
ENGINEER

DATE

REVIEWED

GRACE Y. COMALING
ENGINEER II
ASST. CHIEF PLANNING AND DESIGN SECTION

DATE

SUBMITTED

BRIAN T. VILLARBEVA
ENGINEER III
CHIEF PLANNING AND DESIGN SECTION

DATE

RECOMMENDED

MARIA V. FLOREN
ASSISTANT DISTRICT ENGINEER

DATE

APPROVED

PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER

DATE

SET NO

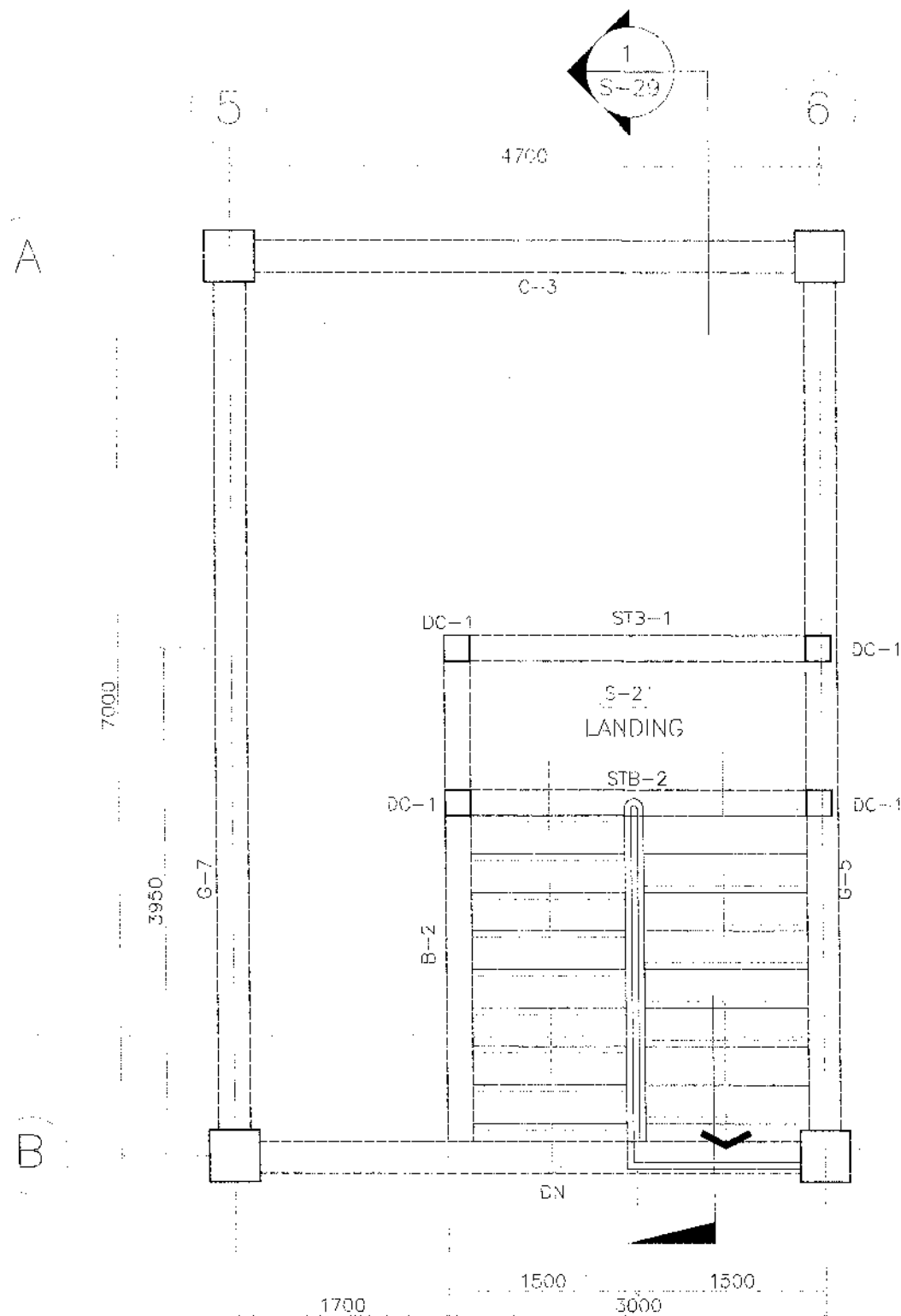
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S37

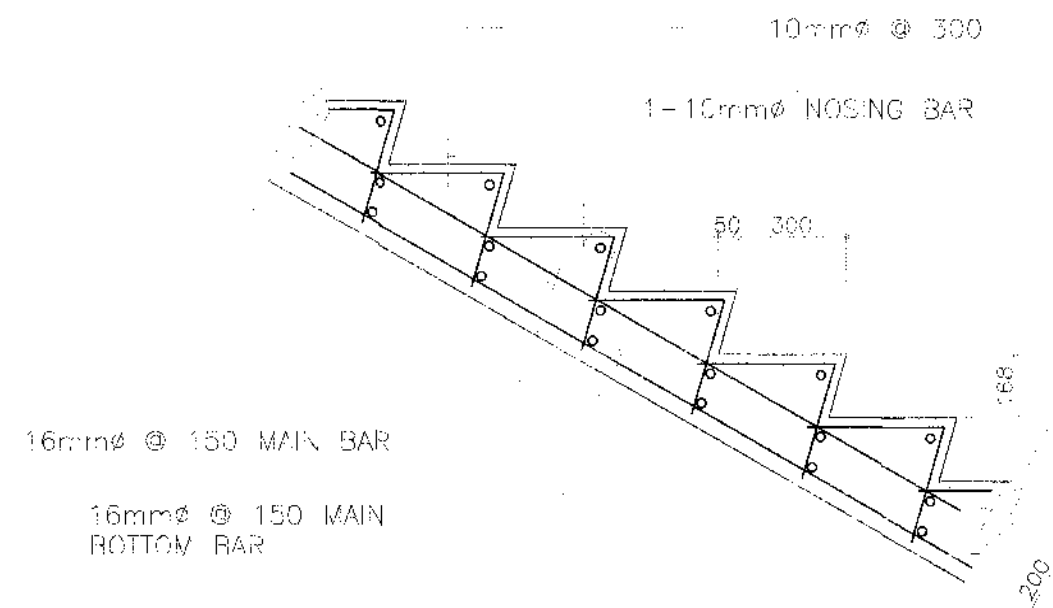
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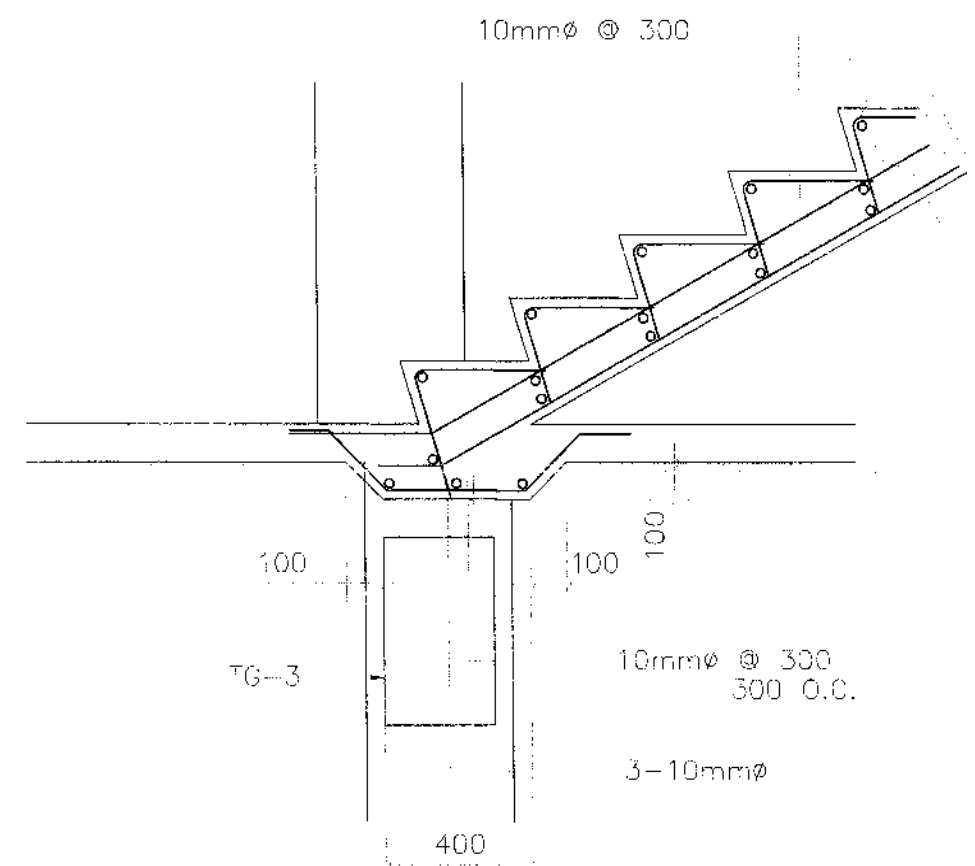
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1 STAIR FRAMING PLAN
 SCALE 1:50 METERS
 S27



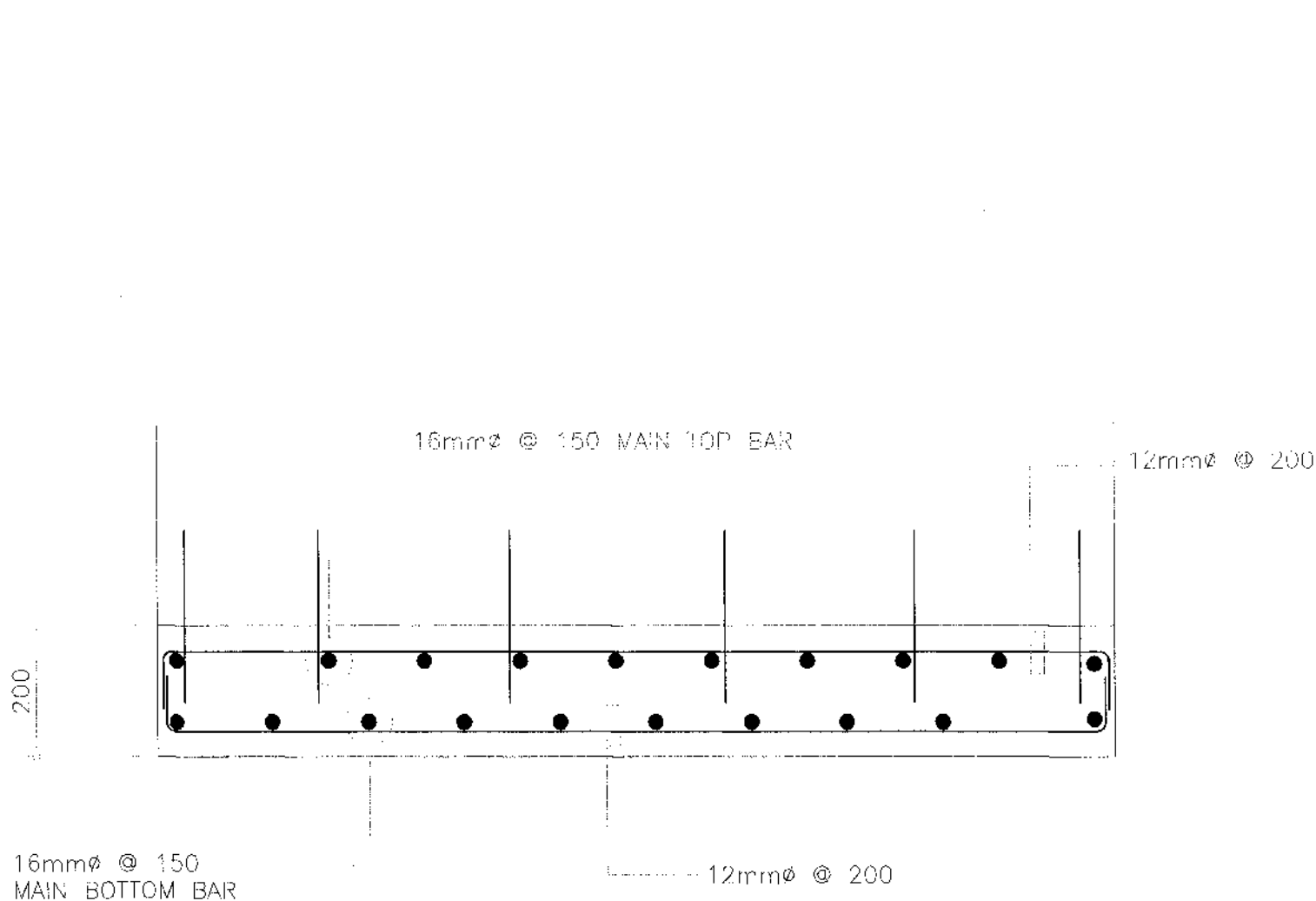
2 SPOT DETAIL
 SCALE 1:20 METERS
 S27



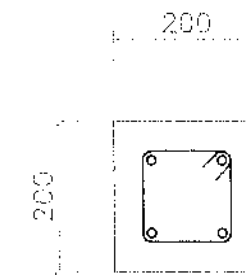
3 SPOT DETAIL
 SCALE 1:20 METERS
 S27

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1 SECTION OF STAIR SLAB
S28 SCALE 1:10 METERS

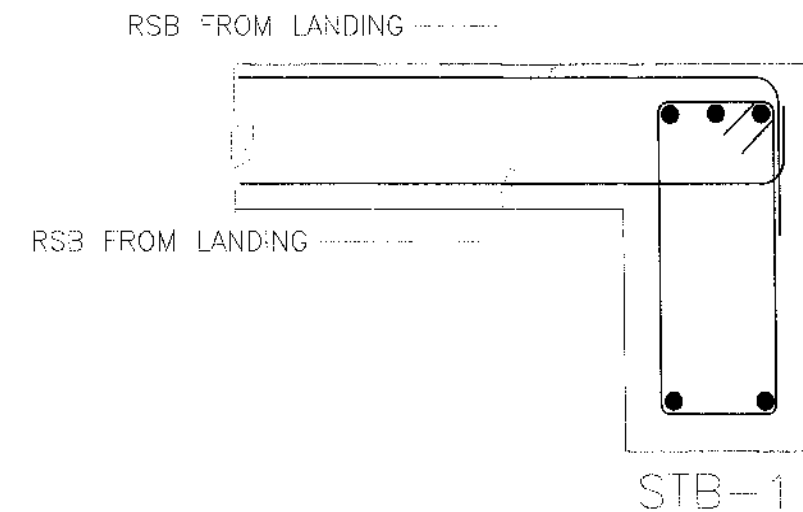


MAIN BAR:
4-Ø16mm

LES : 10mmØ 1@50, 8@75,
REST @ 150mm TO
CENTER

(FROM LANDING TO 2ND FLOOR LEVEL)
2 DETAIL - DC - 1

S28 SCALE 1:20 METERS



3 SPOT DETAIL
S28 SCALE 1:20 METERS

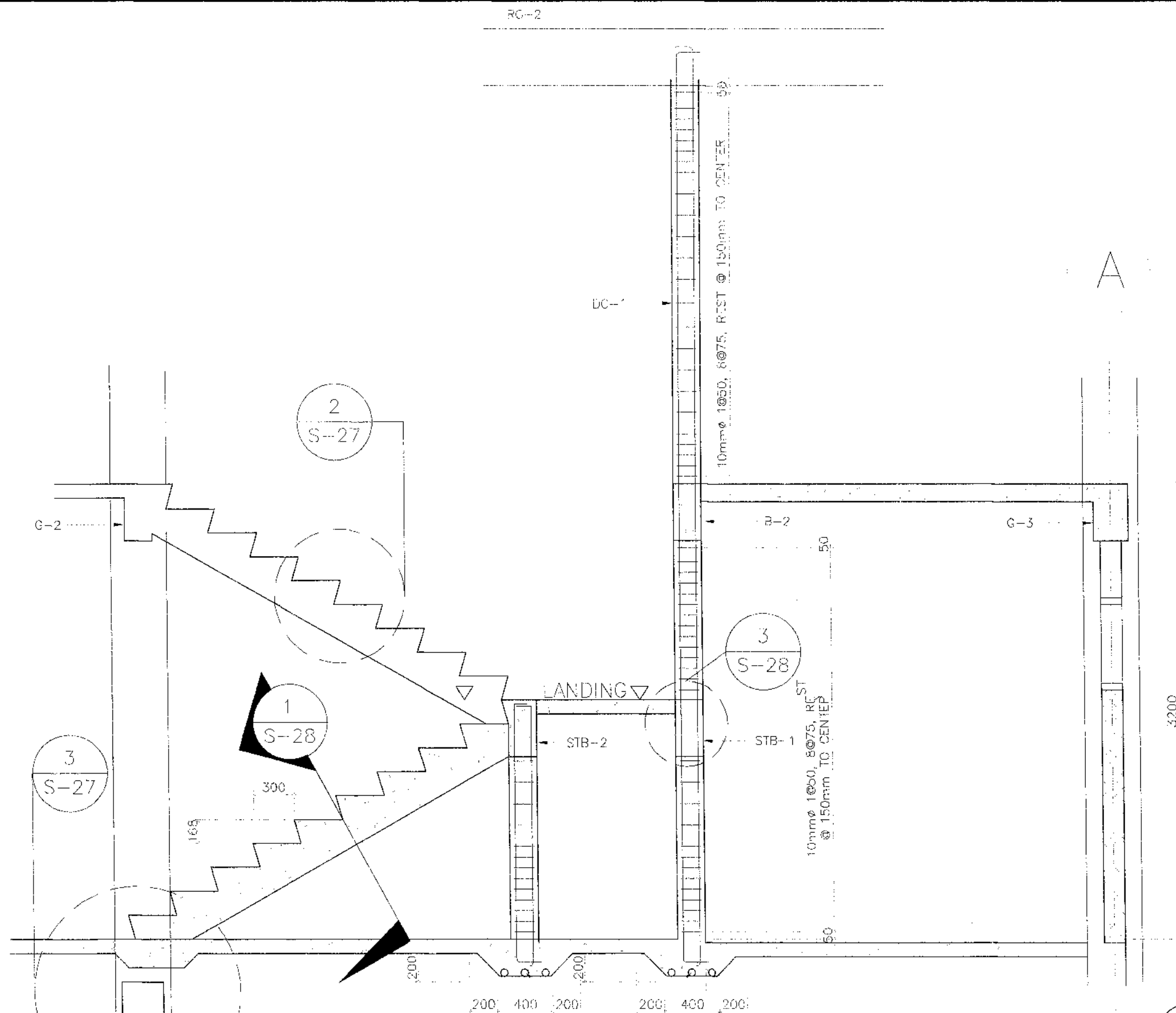
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REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PAGADJUAN CITY	PROJECT NAME AND LOCATION CONSTRUCTION OF SCHOOL BUILDING, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR	SHEET CONTENTS AS SHOWN	PREPARED CARMELITO A. PENALES JR. DATE 04/29/25	REVIEWED GRACE A. COMALING ASST. CHIEF ENGINEER DATE 04/29/25	SUBMITTED BRIAN R. VILLANUEVA CHIEF PLANNING AND DESIGN SECTION DATE 04/29/25	RECOMMENDED MARIA N. FLOREN ASSISTANT DISTRICT ENGINEER DATE 04/29/25	APPROVED PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE 04/29/25
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SET NO. 28	SHEET NO. 68
S28	98

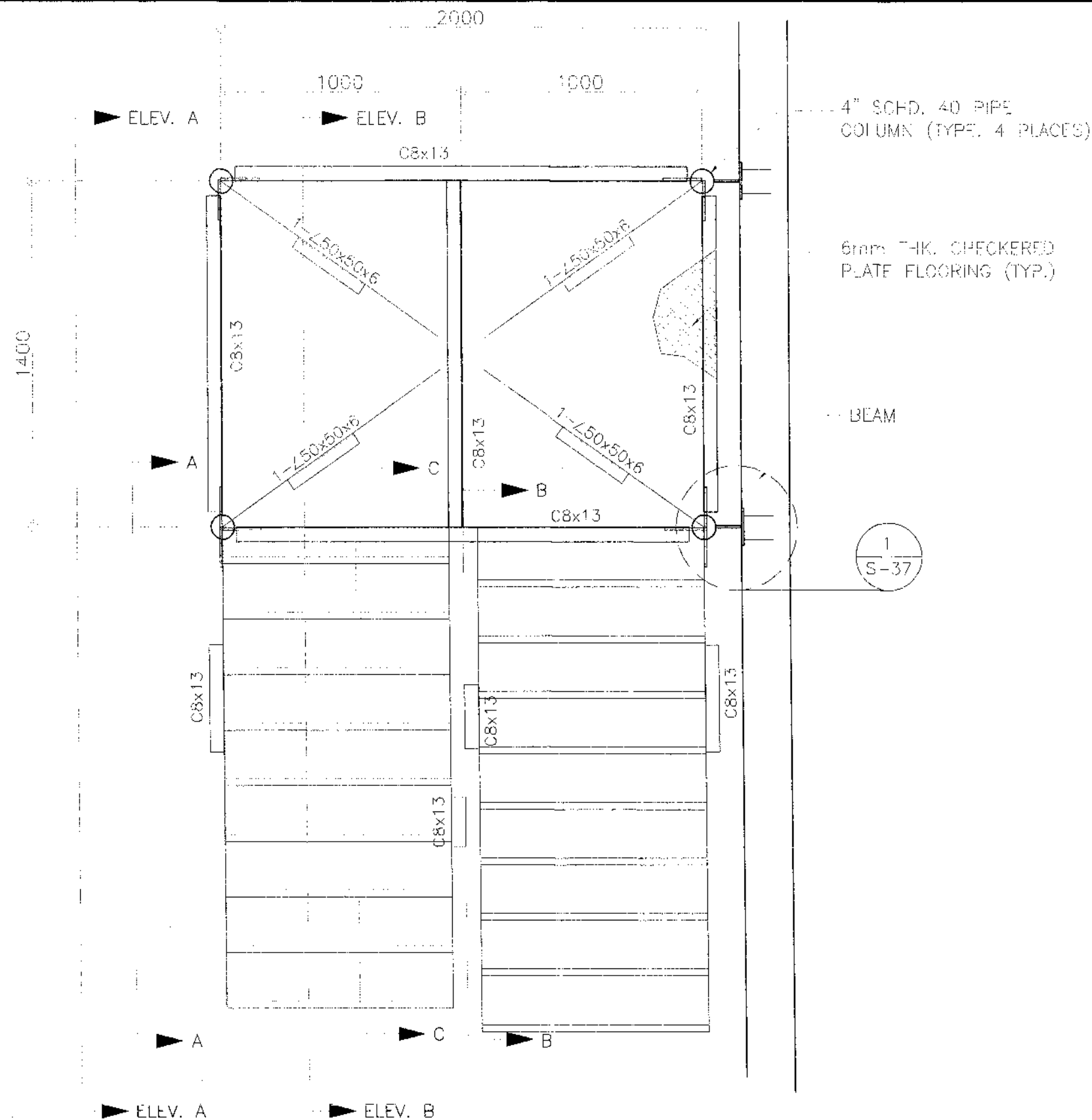
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1 STAIR SECTION DETAIL
SCALE 1:50 METERS

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, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR	SHEET COMMENTS • AS SHOWN	PREPARED CARMELITO A. PENALES JR. DATE 04/24/25	REVIEWED GRACEY COMALING ENGINEER II ASS'T. CHIEF, PLANNING AND DESIGN SECTION DATE 04/24/25	SUBMITTED BRIAN S. VILLANUEVA ENGINEER II 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. 29 SHEET NO. 69 S37 98
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1 FIRE ESCAPE FRAMING PLAN
S30 SCALE 1:20 METERS

NOTE:

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20x20mm SQ. BAR
RAILING @125mm OC

ELEV. C

LANDING

1600

300

ELEV. C

2

S-33

SEE DETAIL

C8x13

1-L65x65x6mm

1-L65x65x6mm

50mmØ GI PIPE HANDRAIL
(PAINT FINISH)

2ND FLOOR

3200

GROUND FLOOR LINE

FINISH GROUND LINE

SEE DETAIL

1

S-33

ELEVATION A - A FIRE ESCAPE ELEVATION

1
S31

SCALE

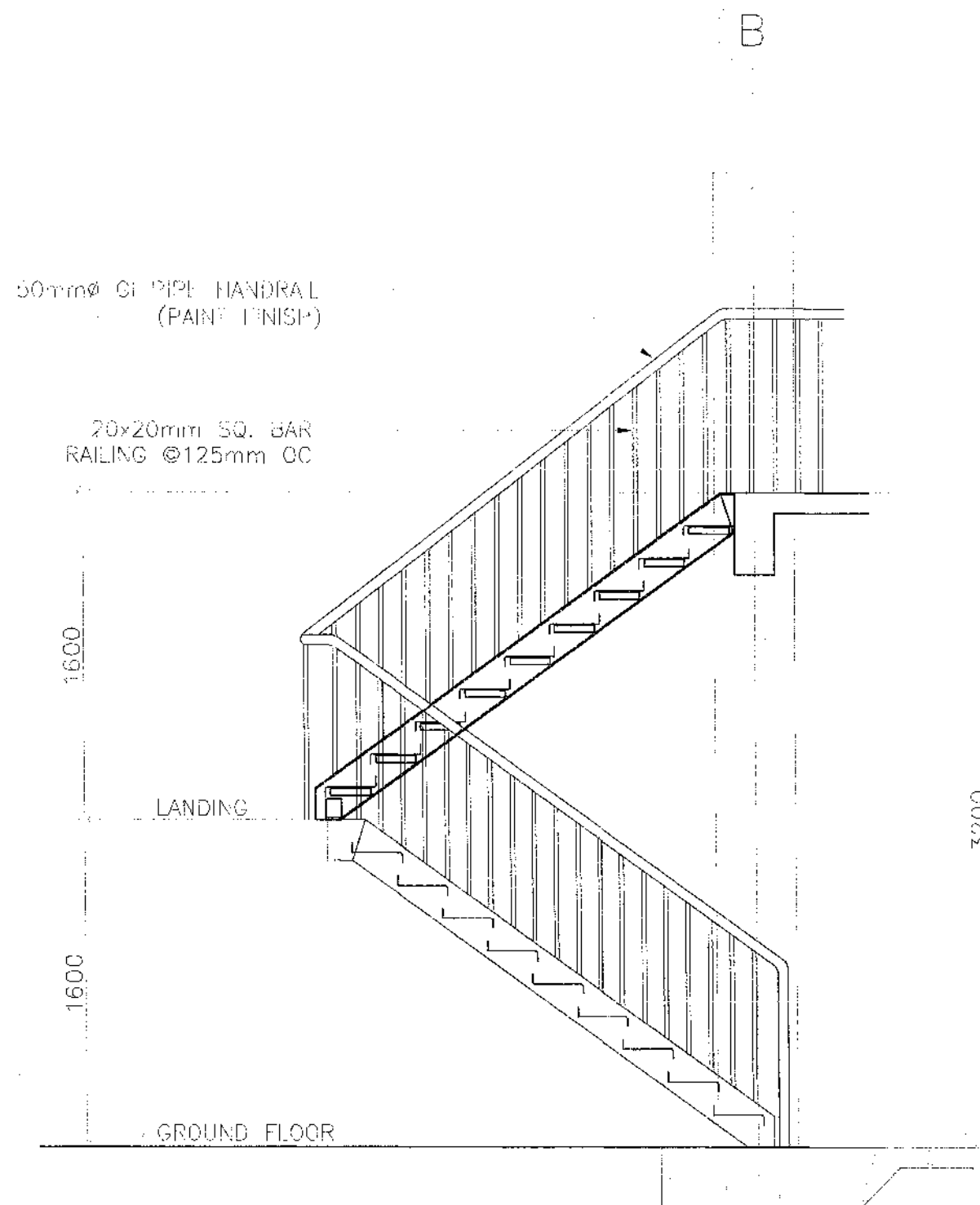
1:30 METERS

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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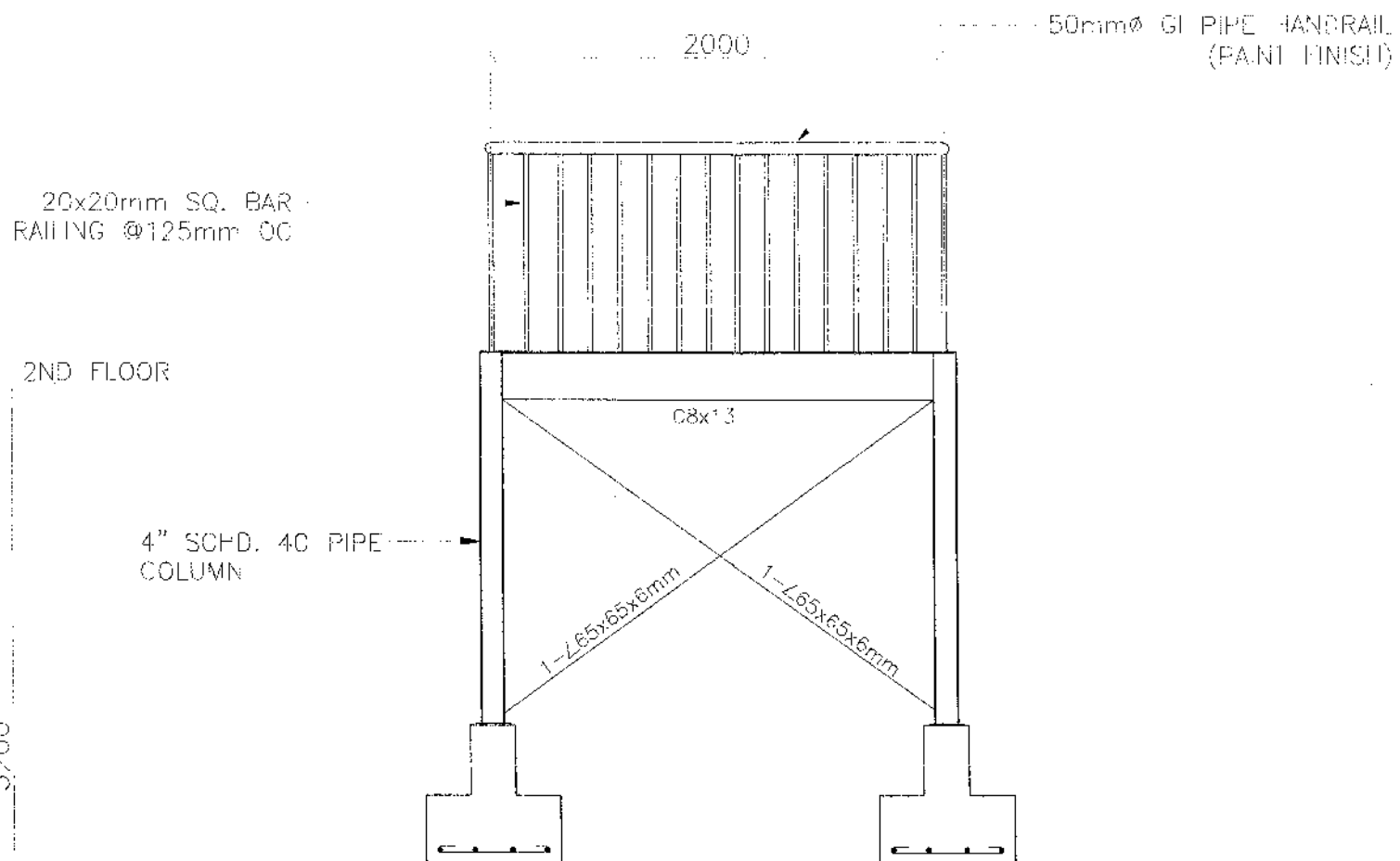
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE DANAGAUAN CITY	PROJECT NAME AND LOCATION CONSTRUCTION OF SCHOOL BUILDING, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR	SHEET CONTENTS • AS SHOWN	PREPARED BY CARMELITO A. REVILLA JR. DATE: 04/15/15	REVIEWED BY GRACE A. COMALING ASST. CHIEF, PLANNING AND DESIGN SECTION DATE: 04/21/15	SUBMITTED BY BRIAN R. VILAS DATE: 04/28/15	RECOMMENDED BY MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 04/29/15	APPROVED BY PABLO L. ESCUERO, MPA DISTRICT ENGINEER DATE: 04/29/15	SET NO. 31 S37 SHEET NO. 71 98
--	---	--------------------------------------	--	--	---	--	---	--



1
S32

**ELEVATION B - B
FIRE ESCAPE ELEVATION**

SCALE 1:30 METERS



2
S32

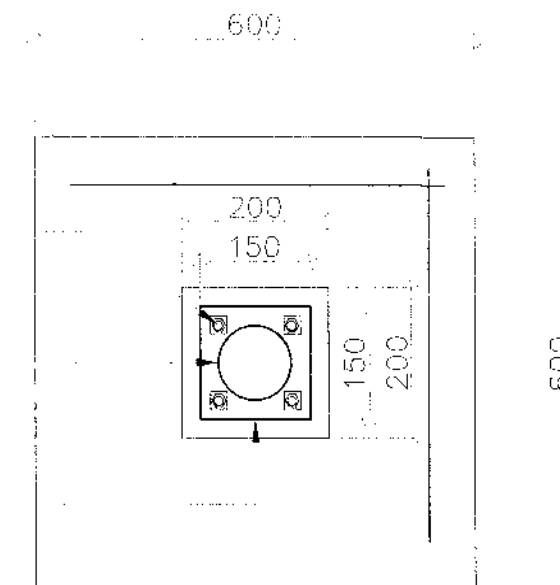
**ELEVATION C - C
FIRE ESCAPE ELEVATION**

SCALE 1:30 METERS

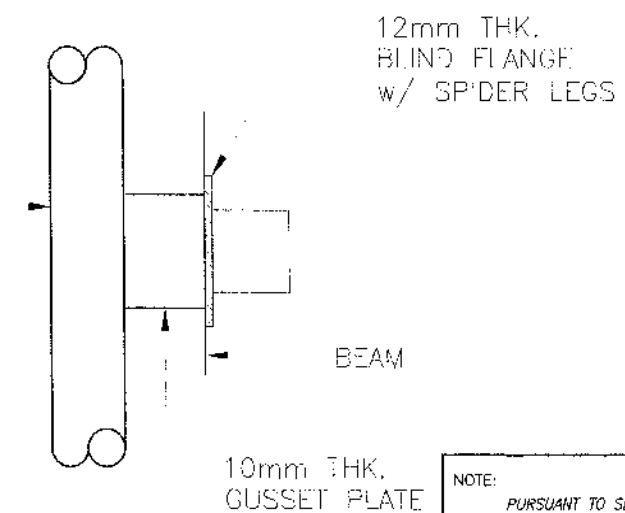
NOTE:

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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PLAN



3
S33

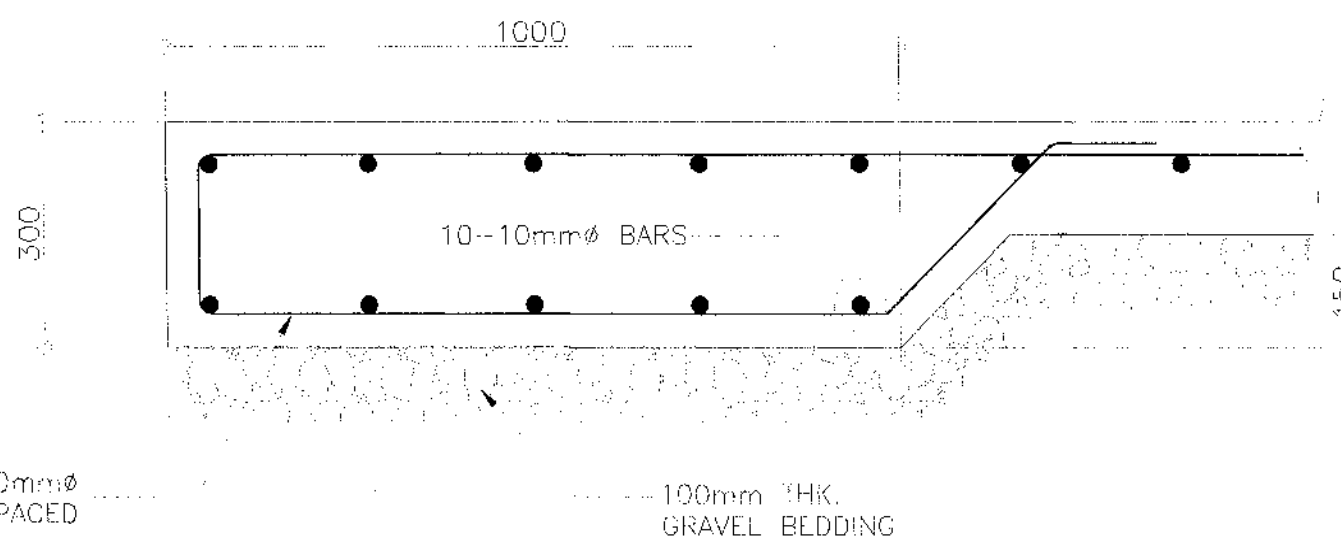
DETAIL

SCALE 1:10 METERS

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPMW 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
S33

DETAIL

SCALE 1:10 METERS

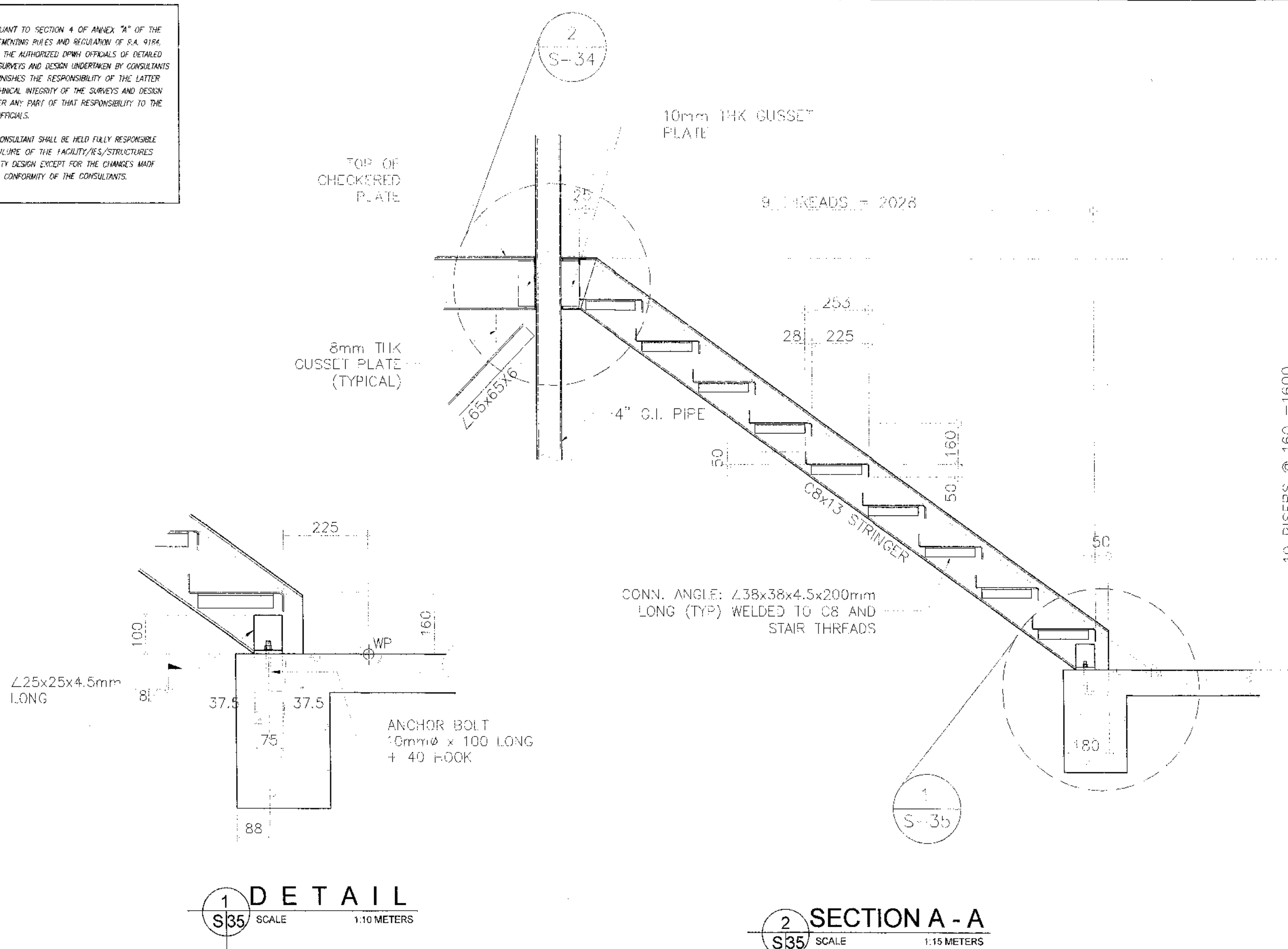


REPUBLIC OF THE PHILIPPINES		PROJECT NAME AND LOCATION	SHEET CONTENTS	PREPARED	REVIEWED	SUBMITTED	IN-CHARGE	APPROVED	SE. NO.	SHEET NO.
 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PASADAYA CITY	CONSTRUCTION OF SCHOOL BUILDING, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR	• AS SHOWN	CARMELITO APENALES JR. ENGINEER	GRACIA COMALING ENGINEER	BRIAN R. VILLANUEVA ENGINEER	MARIA U. FLOREN ASSISTANT DISTRICT ENGINEER	PABLO L. ESCUADRO, MPA DISTRICT ENGINEER	34 S37	74 98	

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF R.A. 9164, 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, DULOP
NATIONAL HIGH SCHOOL, BARANGAY DULOP,
MUNICIPALITY OF DUMINGAG,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

PREPARED
CARMELITO PENALES JR.
DATE 09/21/25

REVIEWED
GRACEY DUMALING
DATE 09/21/25

SUBMITTED
ERIANE VILLANUEVA
DATE 09/21/25

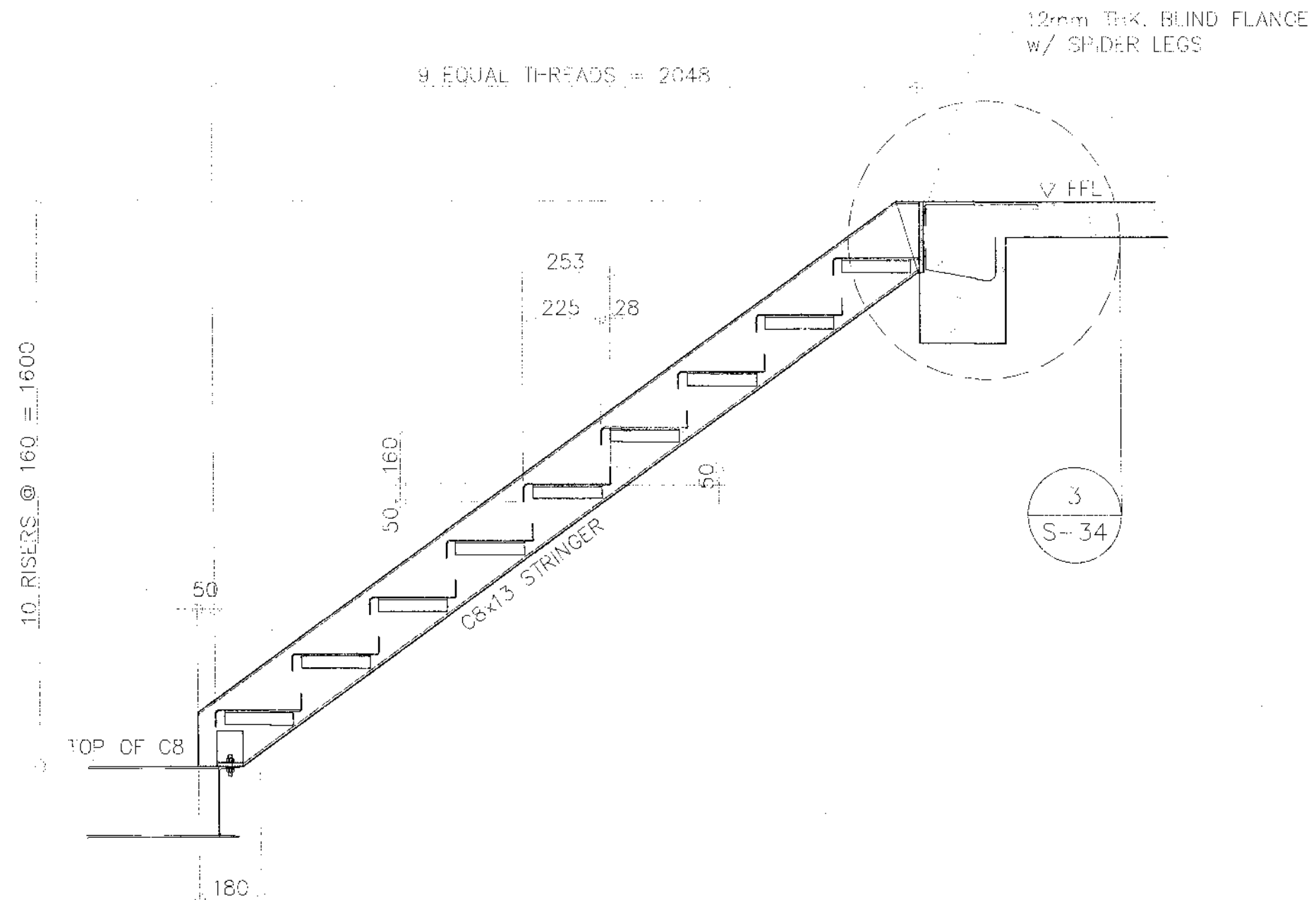
RECOMMENDED
MARIA U. FLOREN
DATE 09/21/25

APPROVED
PABLO L. ESCUADRO, RPA
DATE 09/21/25

SHEET NO. 35
SHEET NO. 75
S37 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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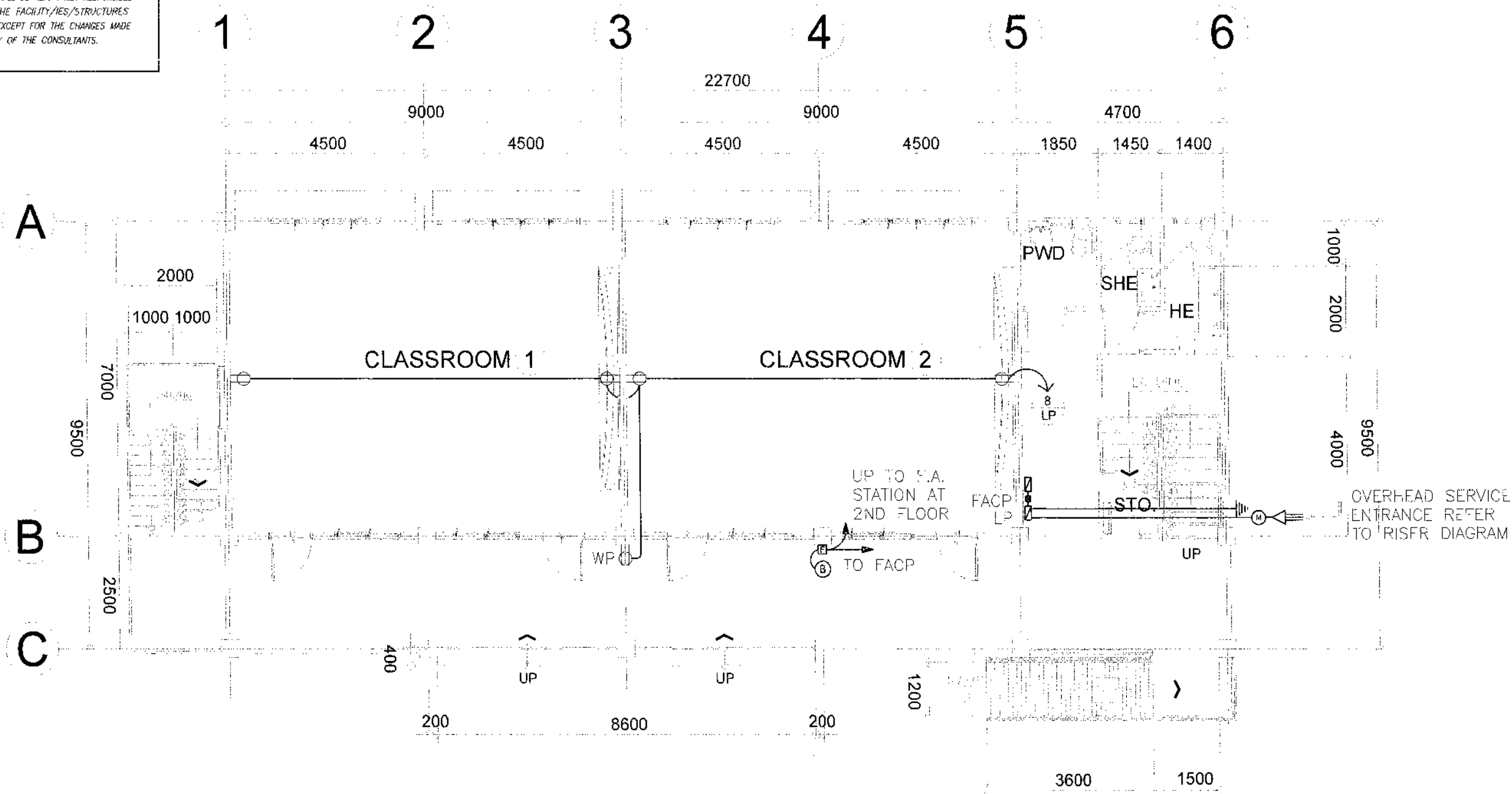


1 SECTION B - B
 S36 SCALE 1:15 METERS

NOTE:

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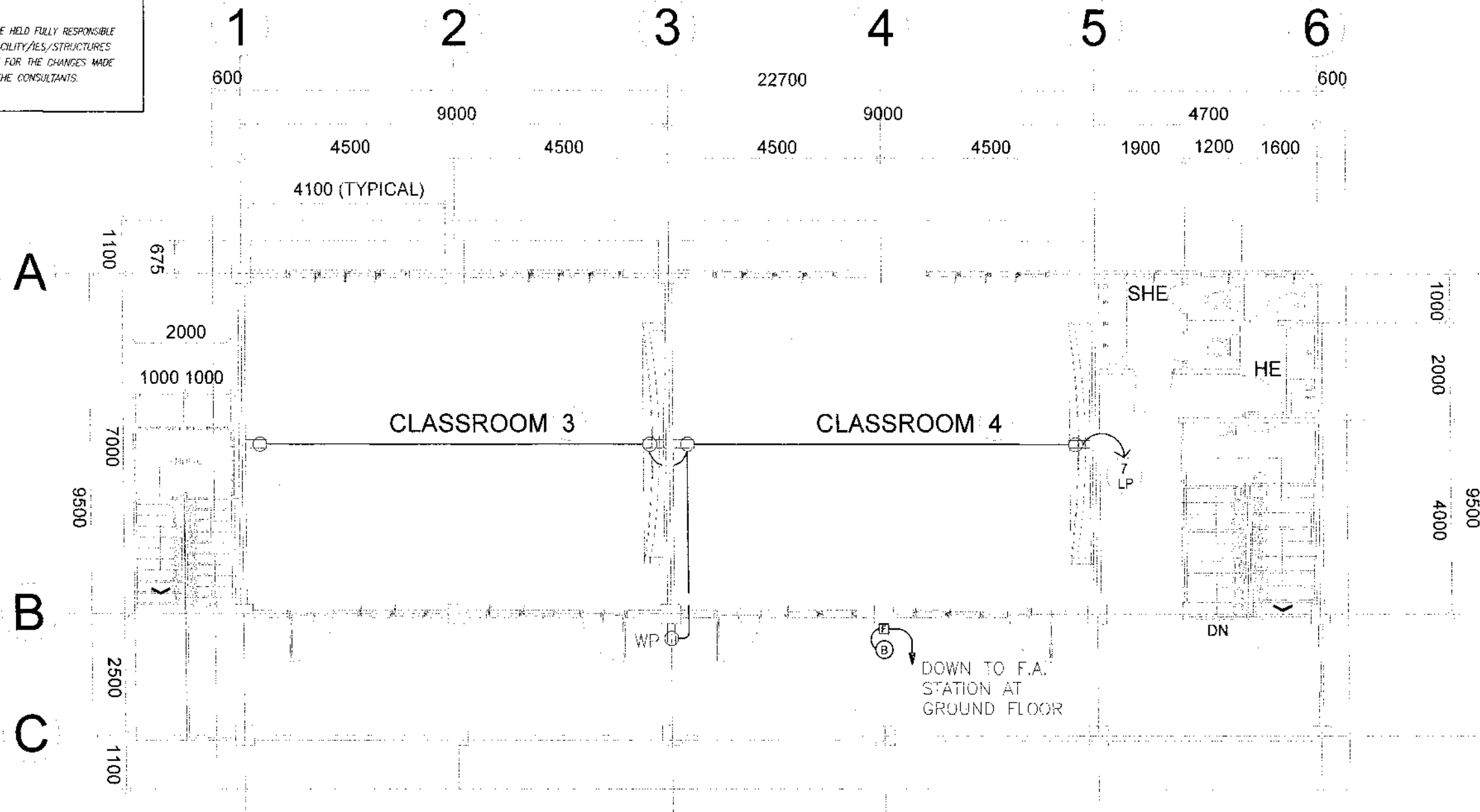


1
E 1 **GROUND FLOOR POWER LAYOUT**
SCALE 1:100 METERS

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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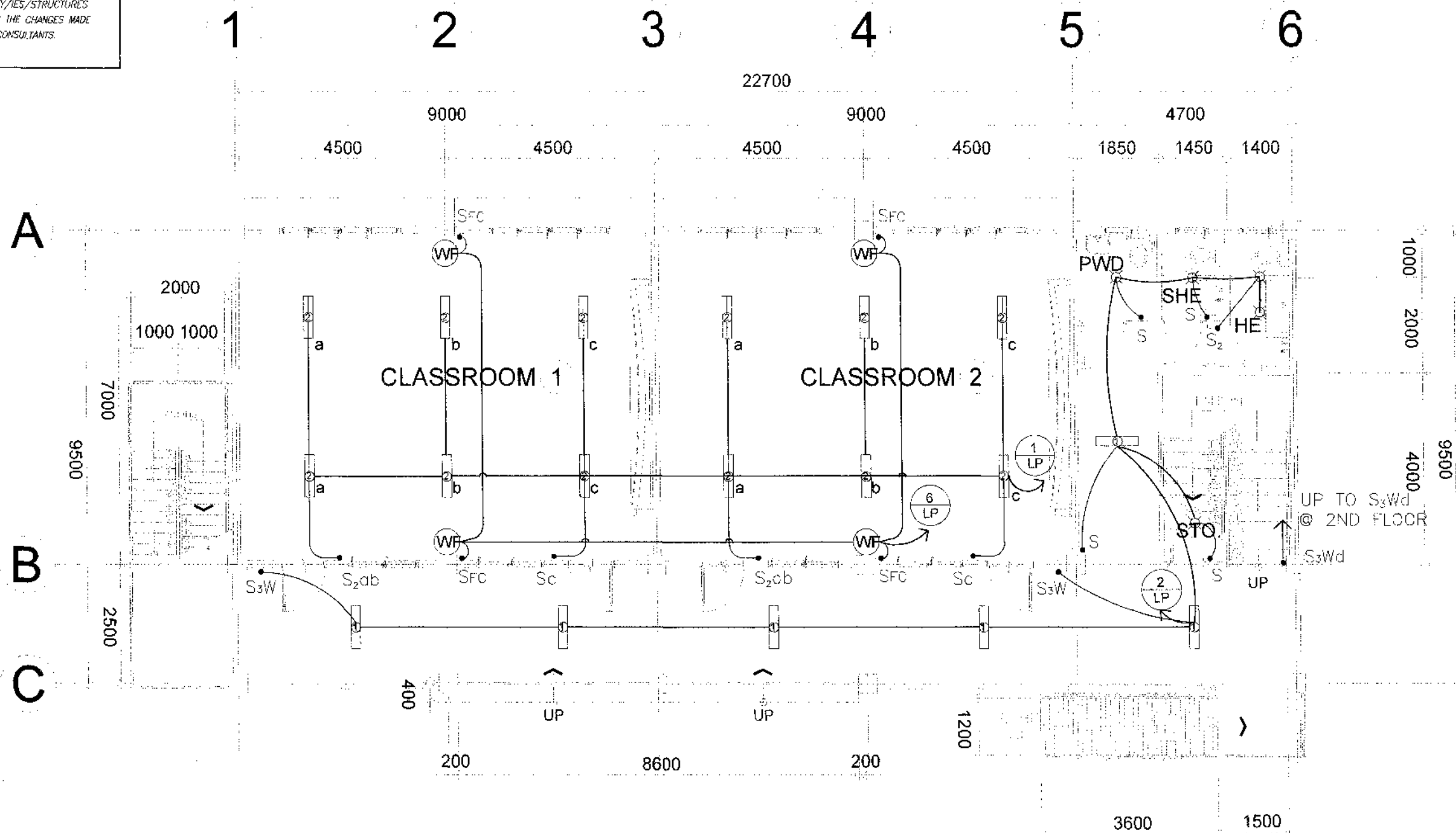
1
E 2 SCALE 1:100 METERS

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	SHEET CONTENTS	PREPARED	REVIEWED	SUBMITTED	RECOMMENDED	APPROVED	SHEET NO.	SHEET NO.
	CONSTRUCTION OF SCHOOL BUILDING, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR	• AS SHOWN	DATE: 11/24/15 DECILIA V. ARIDO ENGINEER	DATE: 11/25/15 GRACE COMALING ASST. CHIEF ENGINEER	DATE: 11/26/15 BRIAN M. LAMAY CHIEF PLANNING SECTION	DATE: 11/24/15 MARIA U. FLOREN ASST. DISTRICT ENGINEER	DATE: 11/24/15 PABLO L. ESQUADRO, CPA DISTRICT ENGINEER	02 E 06	79 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
E 3
SCALE 1:100 METERS



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

PROJECT NAME AND LOCATION
CONSTRUCTION OF SCHOOL BUILDING, DULOP
NATIONAL HIGH SCHOOL, BARANGAY DULOP,
MUNICIPALITY OF DUMINGAG,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

PREPARED
DECELA ANARIDO
DATE 01/24/25

REVIEWED
GRACEY COMALING
ASST. CHIEF, 1ST DISTRICT ENGINEERING SECTION
DATE 01/24/25

SUBMITTED
ARIAN R. VILLANUEVA
CHIEF, 1ST DISTRICT ENGINEERING SECTION
DATE 01/24/25

RECOMMENDED
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE 01/24/25

APPROVED
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE 01/24/25

SHEET NO.
03
E 06
SHEET NO.
80
98

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATIONS OF P.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 floor plan shows two classrooms, Classroom 3 and Classroom 4, each with three columns of outlets labeled 'a', 'b', and 'c'. Classroom 3 has a switch labeled 'SFC' and a switch labeled 'S₂ab'. Classroom 4 has a switch labeled 'SFC' and a switch labeled 'S₂ab'. There are also switches labeled 'S₃W' and 'S₃Wd'. The plan includes various electrical symbols such as outlets (WF), switches (S), and lighting points (LP). Dimensions are provided for the overall layout and individual rooms.

1 SECOND FLOOR LIGHTING LAYOUT

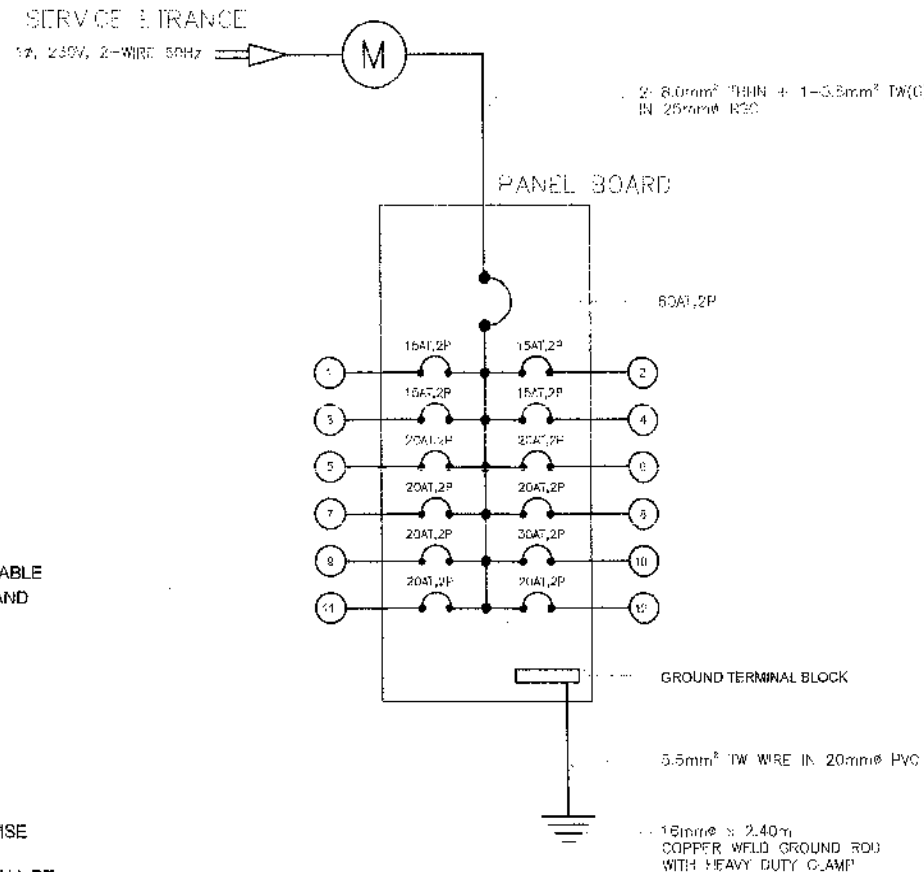
NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9154, 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.

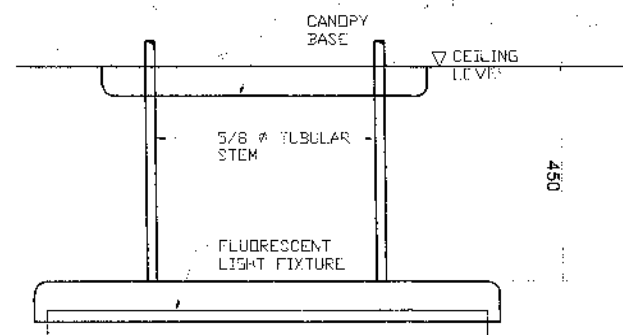
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GENERAL NOTES :

- ALL ELECTRICAL WORKS SHALL COMPLY WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
- THE ELECTRICAL SERVICE POWER SHALL BE 1-PHASE, 2-WIRE, 230V AC, 60HZ.
- WIRING METHOD SHALL BE AS FOLLOWS:
RIGID STEEL CONDUIT OR POLYVINYL CHLORIDE CONDUIT SCHEDULE 40 SHALL BE USED AS SPECIFIED IN THE PLAN.
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUNS SHALL BE 3.5mm² AND INSULATED FOR 600VOLTS. LIKE WISE, ALL CONDUCTORS SHALL BE COLOR-CODED. SMALLEST RACEWAY SHALL BE 15mm² (NOMINAL).
- ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED FOR THE PARTICULAR LOCATION AND USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
a. LIGHT SWITCH - 1.20M ABOVE FINISH FLOOR
b. CONVENIENCE OUTLET - 0.3M ABOVE FINISH FLOOR
- ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.



1 PANEL BOARD DIAGRAM
SCALE NOT TO SCALE



2 FLUORESCENT LIGHT FIXTURE MOUNTING DETAIL
SCALE NOT TO SCALE

LEGEND

SYMBOL	DESCRIPTION
	- 1-16 WATTS COMPACT FLOURESCENT LAMP WITH MEDIUM BASE, KEYLESS TYPE PORCELAIN RECEPTACLE
	- 1 x 36 WATTS FLOURESCENT LIGHTING FIXTURE, BOX TYPE
	- 2 x 36 WATTS FLOURESCENT LIGHTING FIXTURE, BOX TYPE WITH CANOPY BASE AND STEM 1.5 FT. (450mm) LENGTH SIMILAR TO AMCO AP-1113-1.5 OR APPROVED EQUAL
	- 2 x 36 WATTS FLOURESCENT LIGHTING FIXTURE, BOX TYPE
	- WALL FAN OUTLET
	- SINGLE POLE WALL SWITCH
	- DUPLEX SWITCH, 2 SINGLE POLE SWITCHES ON ONE-GANG SWITCH PLATE
	- THREE WAY WALL SWITCH
	- FAN CONTROL SWITCH
	- RACEWAY CONDUIT CONCEALED IN CEILING
	- RACEWAY CONDUIT CONCEALED UNDER FLOOR
	- PANELBOARD, MARKED AS "LP"
	- CKT. BREAKER, RATING AS INDICATED
	- DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 15 AMPS, 240 VOLT
	- WEATHERPROOF DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 15 AMPS, 240 VOLT
	- CIRCUIT HOMERUN
	- ENCLOSED AIR CIRCUIT BREAKER
	- FIRE ALARM CONTROL PANEL
	- FIRE ALARM STATION OUTLET
	- FIRE ALARM BELL
	- SERVICE METER
	- SERVICE ENTRANCE
	- MAIN DISTRIBUTION PANELBOARD



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, DULOP
NATIONAL HIGH SCHOOL, BARANGAY DULOP,
MUNICIPALITY OF DUMINGAG,
ZAMBOANGA DEL SUR

SHEET CONTENTS
AS SHOWN

PREPARED
DECILIO CARDO
ENGINEER

REVIEWED
GRANDY DOMALING
ENGINEER

SUBMITTED
BENNY M. MANSANA
ENGINEER

RECOMMENDED
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER

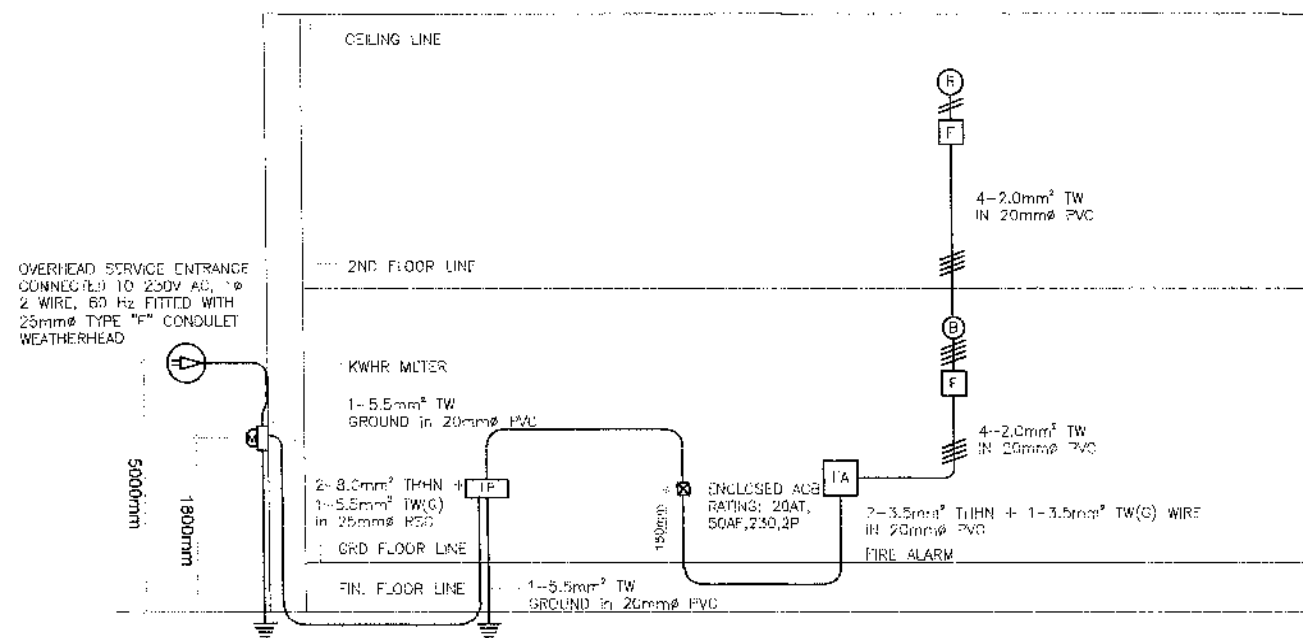
APPROVED
FABLO L. ESCUADRO, MPA
DISTRICT ENGINEER

SET NO. 05
SHEET NO. 82
E 06 98

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.

PANELBOARD, 1P FLUSH MOUNTED, NEMA 4 ENCLOSURE WITH GROUND TERMINAL

CKT. NO.	LOAD DESCRIPTION	VA LOAD	CIRCUIT BREAKER					WIRE & CONDUIT SIZE
			VOLT	POLE	AT	AF	kAIC	
1	LIGHT OUTLETS 12-2/36W, FLF	1080	230	2	15	50	10	2-3.5mm ² THHN WIRE STRANDED, 1-3.5mm ² TW(G) WIRE STRANDED 20mmØ PVC
2	LIGHT OUTLETS 8-1/36W, FLF LIGHT OUTLETS 5-18W, CFL	360	230	2	15	50	10	2-3.5mm ² THHN WIRE STRANDED, 1-3.5mm ² TW(G) WIRE STRANDED 20mmØ PVC
3	LIGHT OUTLETS 12-2/36W, FLF	1080	230	2	15	50	10	2-3.5mm ² THHN WIRE STRANDED, 1-3.5mm ² TW(G) WIRE STRANDED 20mmØ PVC
4	LIGHT OUTLETS 7-1/36W, FLF LIGHT OUTLETS 4-18W, CFL	387	230	2	15	50	10	2-3.5mm ² THHN WIRE STRANDED, 1-3.5mm ² TW(G) WIRE STRANDED 20mmØ PVC
5	WALL FAN OUTLETS (4 x 75W)	375	230	2	20	50	10	2-3.5mm ² THHN WIRE STRANDED, 1-3.5mm ² TW(G) WIRE STRANDED 20mmØ PVC
6	WALL FAN OUTLETS (4 x 75W)	375	230	2	20	50	10	2-3.5mm ² THHN WIRE STRANDED, 1-3.5mm ² TW(G) WIRE STRANDED 20mmØ PVC
7	CONVENIENCE OUTLETS (5 x 180VA)	900	230	2	30	50	10	2-5.5mm ² THHN WIRE STRANDED, 1-5.5mm ² TW(G) WIRE STRANDED 25mmØ PVC
8	CONVENIENCE OUTLETS (5 x 180VA)	900	230	2	20	50	10	2-3.5mm ² THHN WIRE STRANDED, 1-3.5mm ² TW(G) WIRE STRANDED 20mmØ PVC
9	IACP	500	230	2	20	50	10	2-3.5mm ² THHN WIRE STRANDED, 1-3.5mm ² TW(G) WIRE STRANDED 20mmØ PVC
10	SPARE	2300	230	2	30	50	10	
11	SPARE	1000	230	2	20	50	10	
12	SPARE	1000	230	2	20	50	10	
TOTAL		10257	60A1, 100AF, 2P, 240V, 10kAIC					
TOTAL CONNECTED LOADS: 10257 VA								
1 @ 80% DF								
$I_L = \left(\frac{10257}{230} \right) 0.80 = 35.68 \text{ AMPERES}$			USE: 2-8.0 THHN + 1-5.5mm ² TW(G) WIRE in 25mmØ RSC (55A/35.68A)					



ELECTRICAL RISER DIAGRAM

LOAD SCHEDULE



1
P1
GROUND FLOOR PLUMBING LAYOUT
 SCALE 1:100 METERS

NOTE:

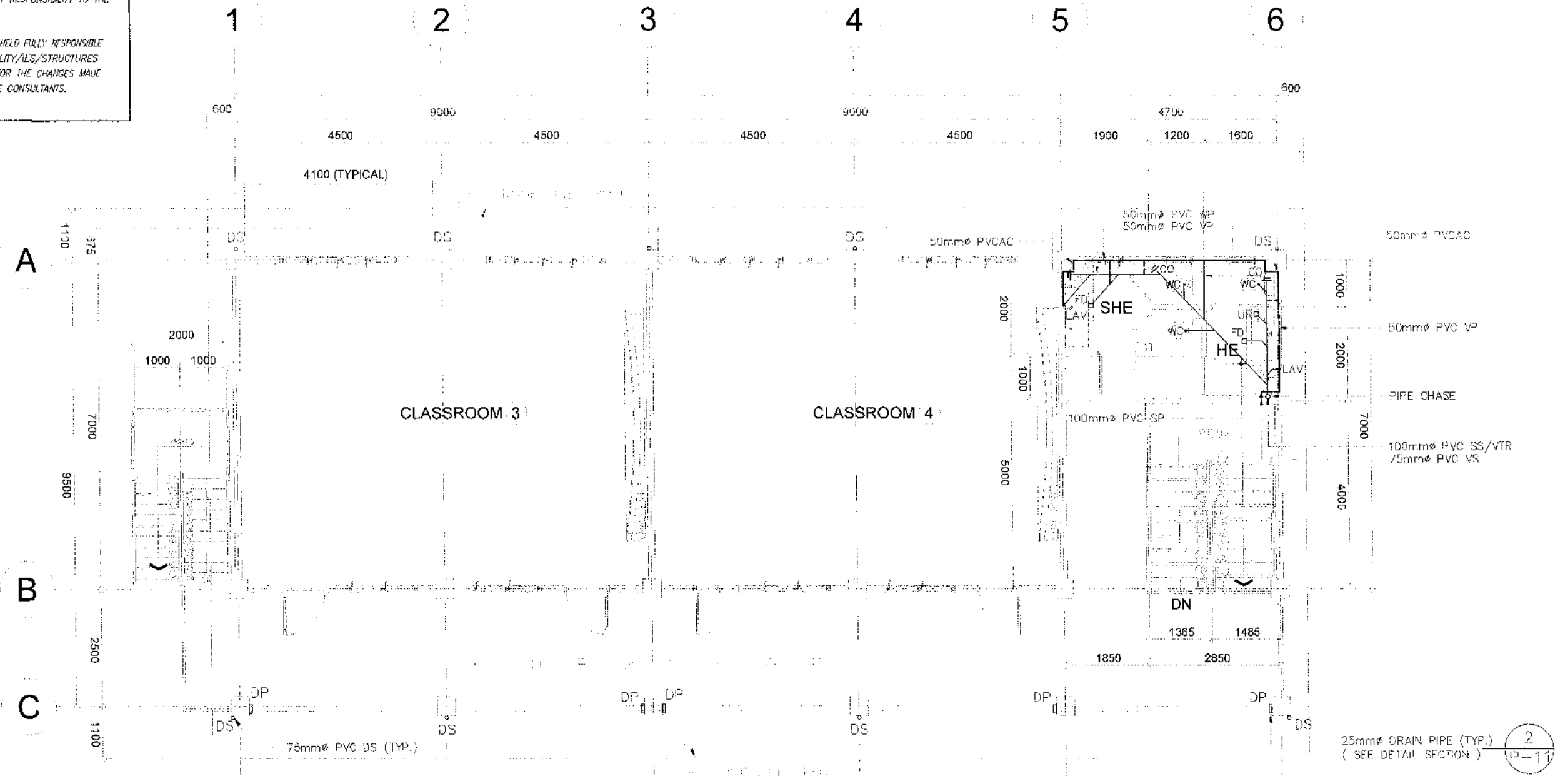
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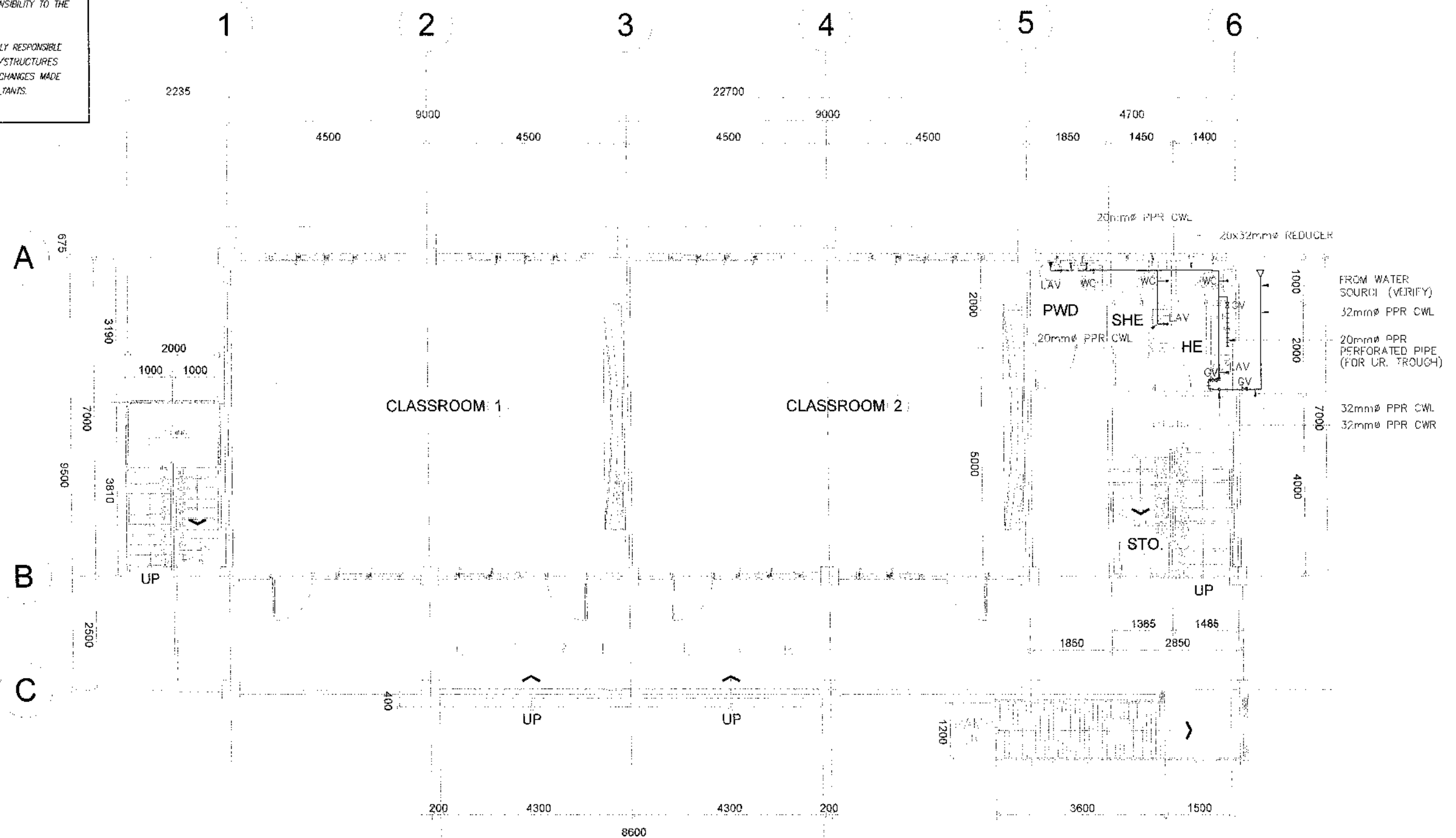


1 P 2 SECOND FLOOR PLUMBING LAYOUT SCALE 1:100 METERS

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9154, 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.

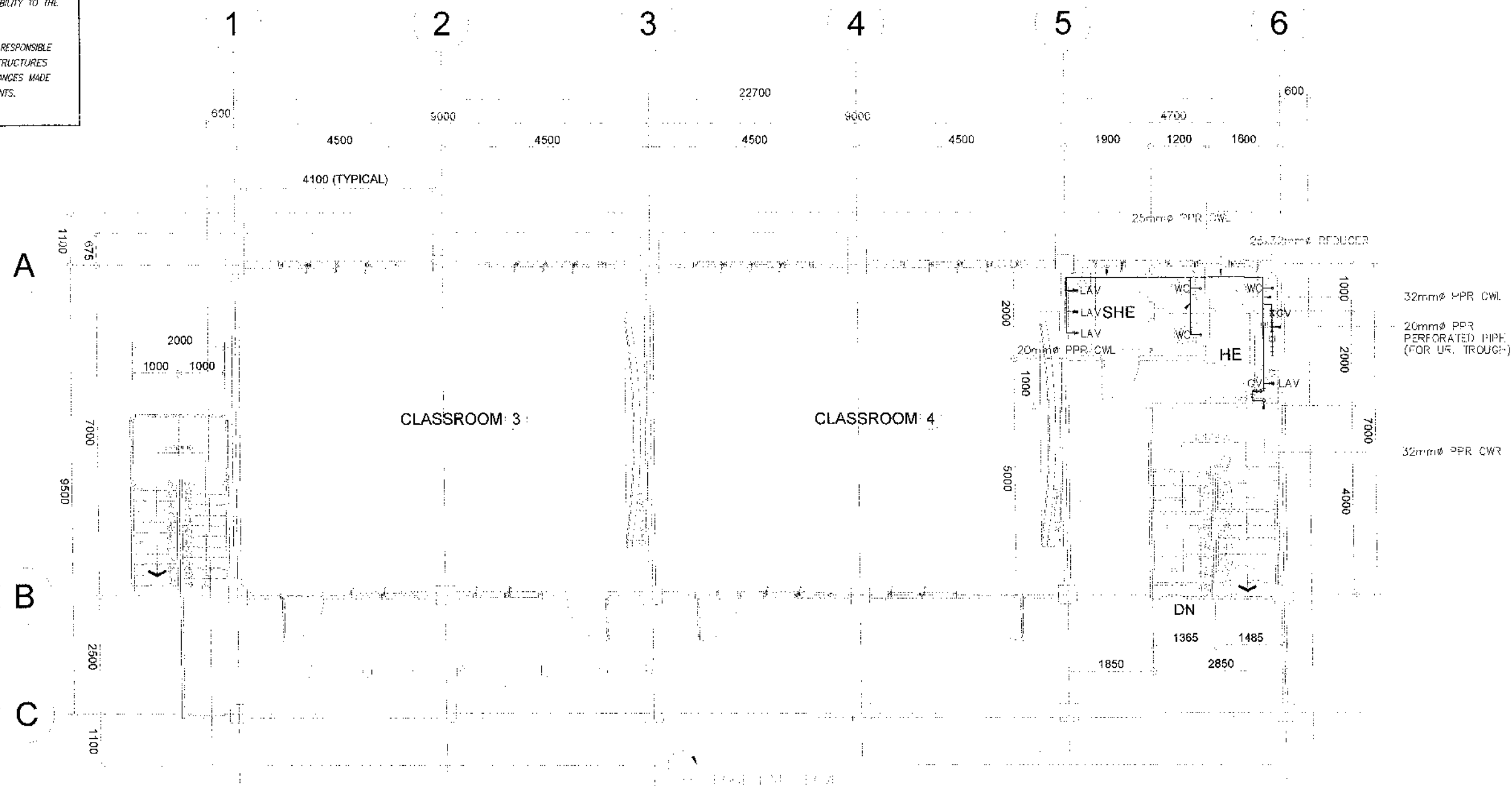
THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.



GROUND FLOOR WATER LINE LAYOUT
SCALE 1:100 METERS

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
P 4

SECOND FLOOR WATER LINE LAYOUT

SCALE 1:100 METERS



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

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

SHEET CONTENTS

- AS SHOWN

PREPARED

ROSETUMPIABREA
ENGINEERING ASSISTANT MASTER PLUMBER

DATE

:REVIEWFL

GRACEY, COMALING
ENGINEER II

DATE

¹ S. J. B. M. van Erp

DR. R. VILANUEVA
ENGINEER III

1242

RECOMMENDED

MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER

1547

ADP/VE

PABLO L. ESQUADRO, MR.
DISTRICT ENGINEER

:DAT

SET 1.2

04
B1

Condition	Control	Mild	Severe
1	65	65	65
2	70	75	70
3	75	80	75
4	80	75	70
5	85	60	55

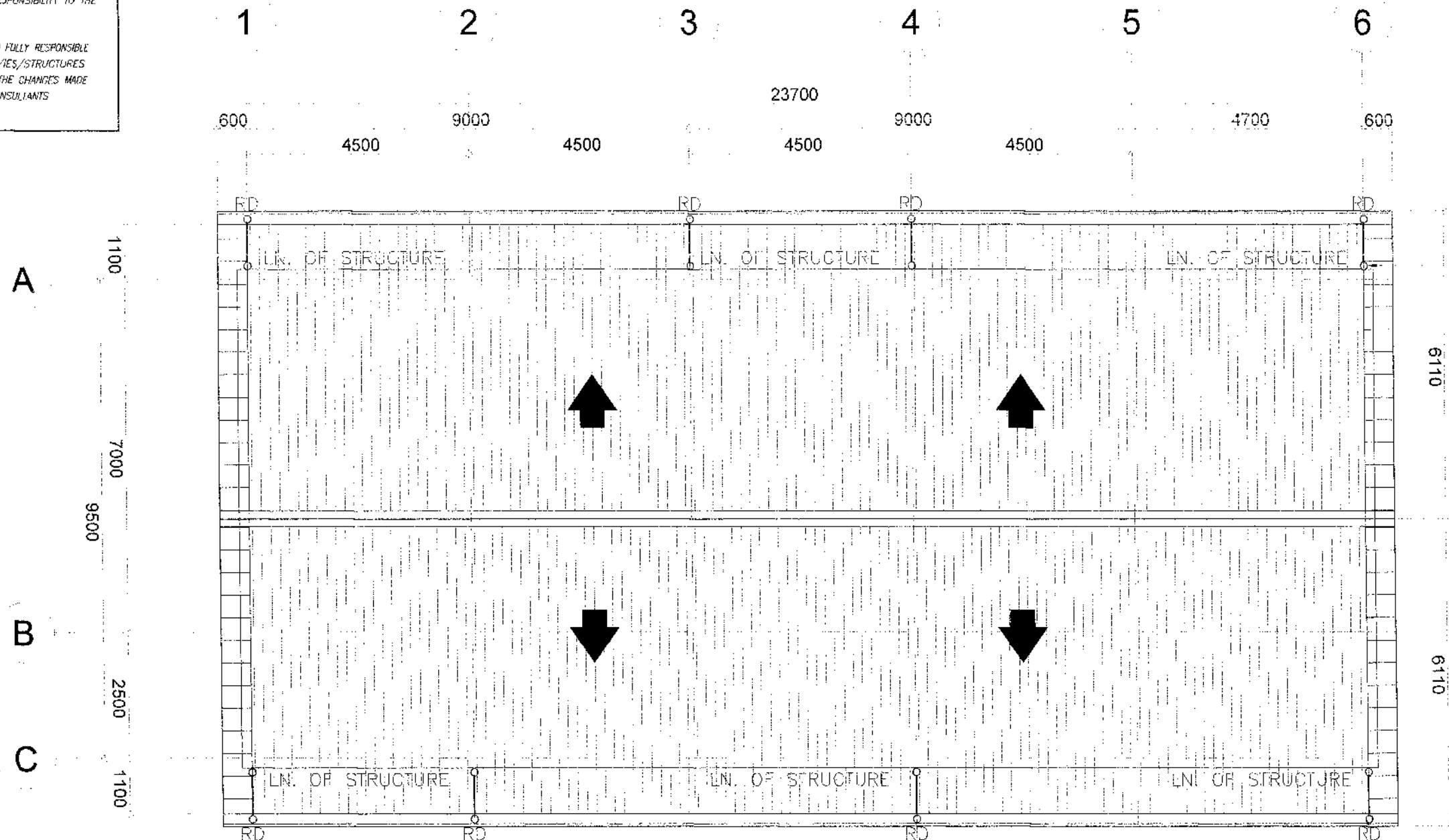
: SHEET NO.

$$\begin{array}{r} 87 \\ - 98 \\ \hline \end{array}$$

NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 5184, 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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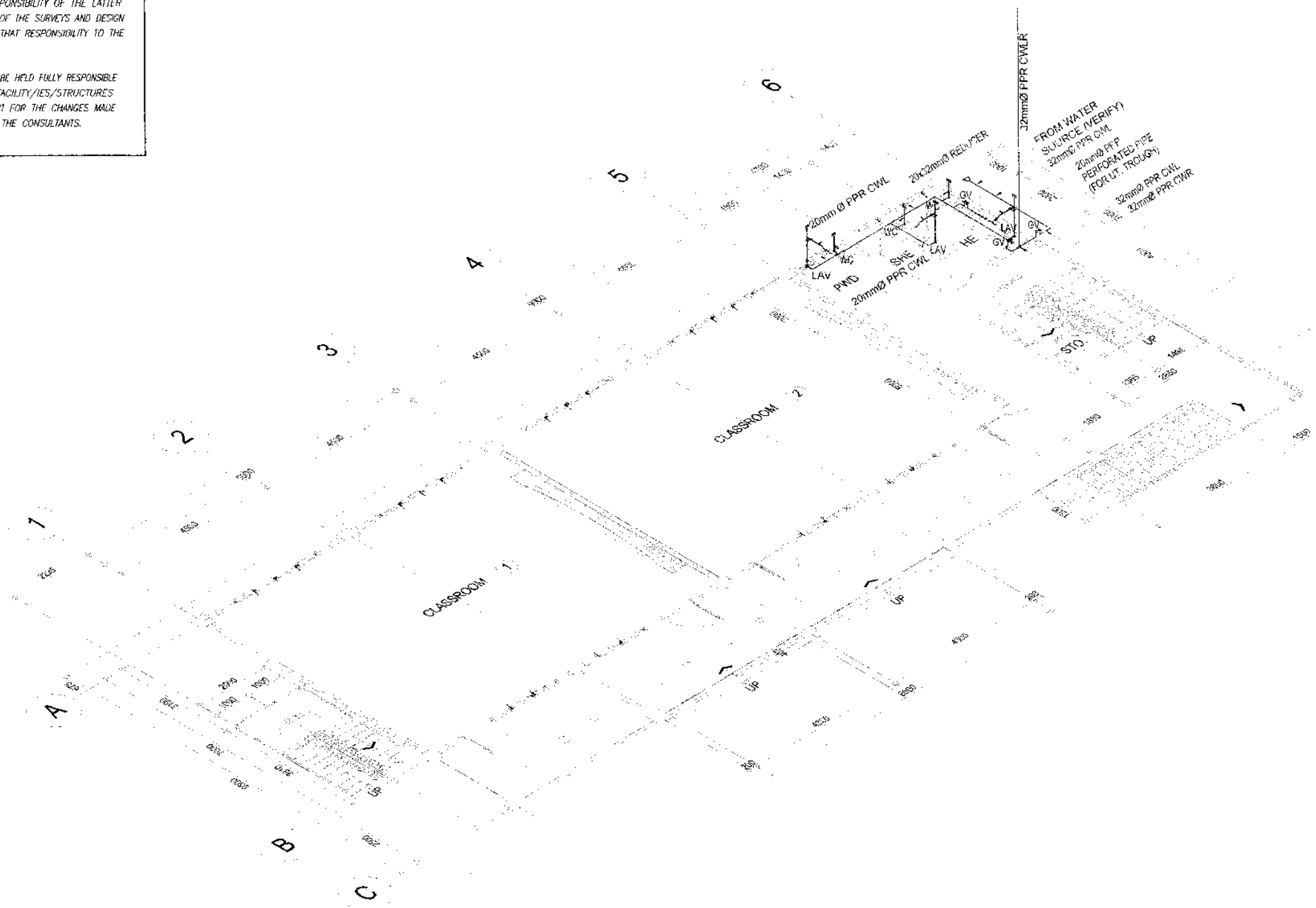
1
P 5 **ROOF DRAINAGE LAYOUT**
SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PASADIAN CITY	PROJECT NAME AND LOCATION CONSTRUCTION OF SCHOOL BUILDING, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR	SHEET CONTENTS • AS SHOWN	PREPARED BY ROSEWIN A. ABREA ENGINEERING ASSISTANT, MASTER PLUMBER DATE: 07/20/25	REVIEWED BY GRACE A. COMALING ASST. CHIEF ENGINEER IN CHARGE REGION DATE: 07/20/25	APPROVED BY ENRIQUE VILLARUEVA CHIEF PLUMBER AND DRAIN SECTION DATE: 07/20/25	RECOMMENDED BY MARIA U. FLOREN ASSISTANT CHIEF ENGINEER DATE: 07/20/25	APPROVED BY PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 07/20/25	SET NO. 05	SHEET NO. 88
									P 15

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 FLOOR
ISOMETRIC WATER LINE LAYOUT
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, DULOP
NATIONAL HIGH SCHOOL, BARANGAY DULOP,
MUNICIPALITY OF DUMINGAG,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

PREPARED BY
ROSELYN PABREA
ENGINEERING ASSISTANT MASTER PLUMBER
DATE: 01/29/25

REVIEWED BY
GRACIE SOMALING
ENGINEER
ASST. CHIEF PLUMBER & LABOR SECTION
DATE: 01/29/25

RECOMMENDED BY
BRIAN V. VILLANUEVA
ENGINEER II
CHIEF PLUMBER & LABOR SECTION
DATE: 01/29/25

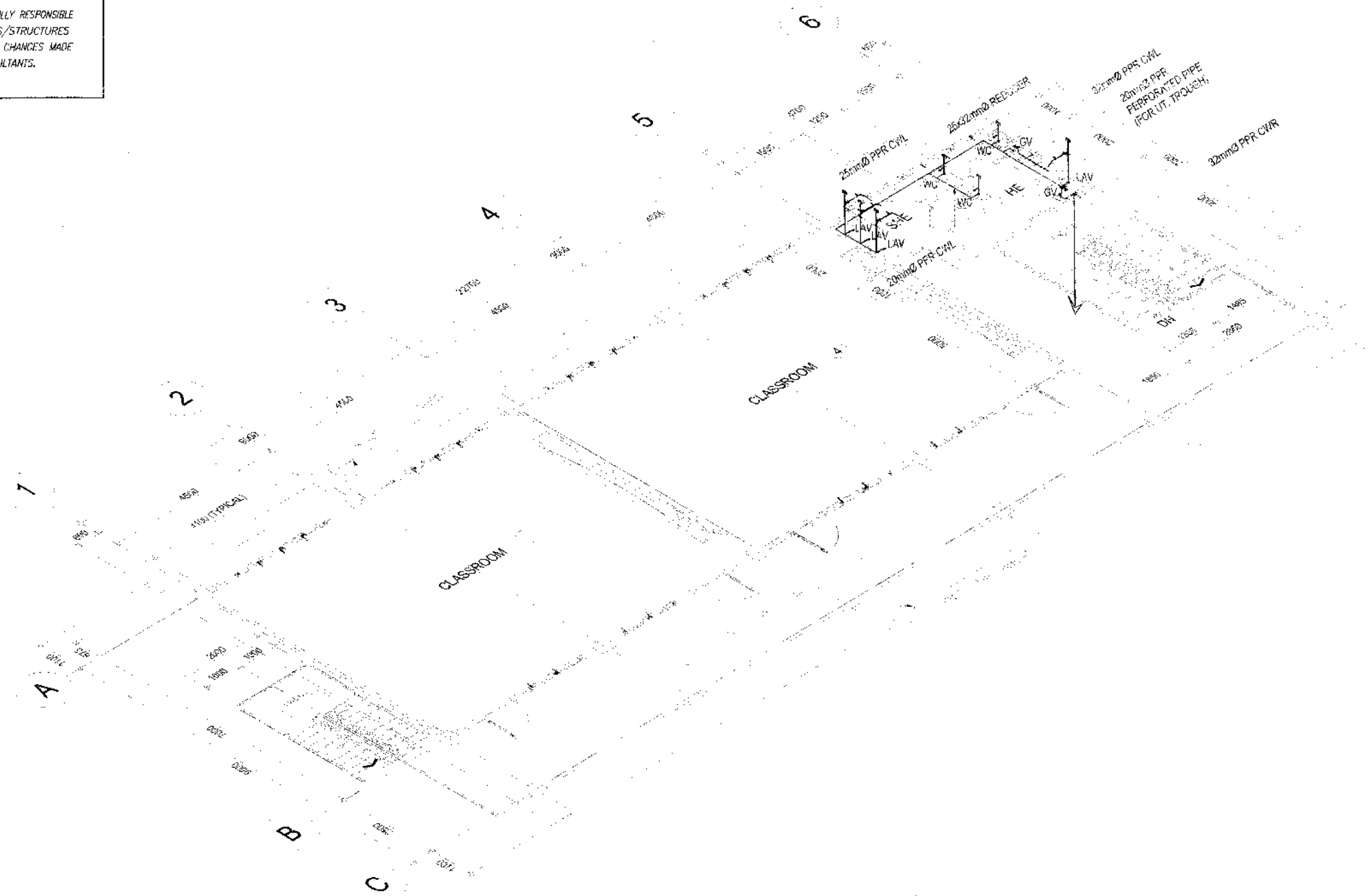
APPROVED BY
MARIA L. FLOREN
ASSISTANT DISTRICT ENGINEER
DATE: 01/29/25

APPROVED BY
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER
DATE: 01/29/25

SET NO. 06
SHEET NO. 89
P15 98

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 5184, 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 ISOMETRIC WATER LINE LAYOUT

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, DULOP
NATIONAL HIGH SCHOOL, BARANGAY DULOP,
MUNICIPALITY OF DUMINGAG,
ZAMBOANGA DEL SUR

- AS SHOWN

ROSE, J. P., AREA
ENGINEERING ASSISTANT, MASTER PLUMBER

GRACE Y. COMALING

ENGINEER II
ASST. CHIEF, PLANNING AND CONSTRUCTION

BRADLEY A. ALLEN
ENGINEER III

CHIEF ENGINEER III
CHIEF, MAINTENANCE SECTION

MARIA U. FLOREN

ASS. STANT DISTRICT ENGINEER

PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER

DISTRICT ENGINEER

07

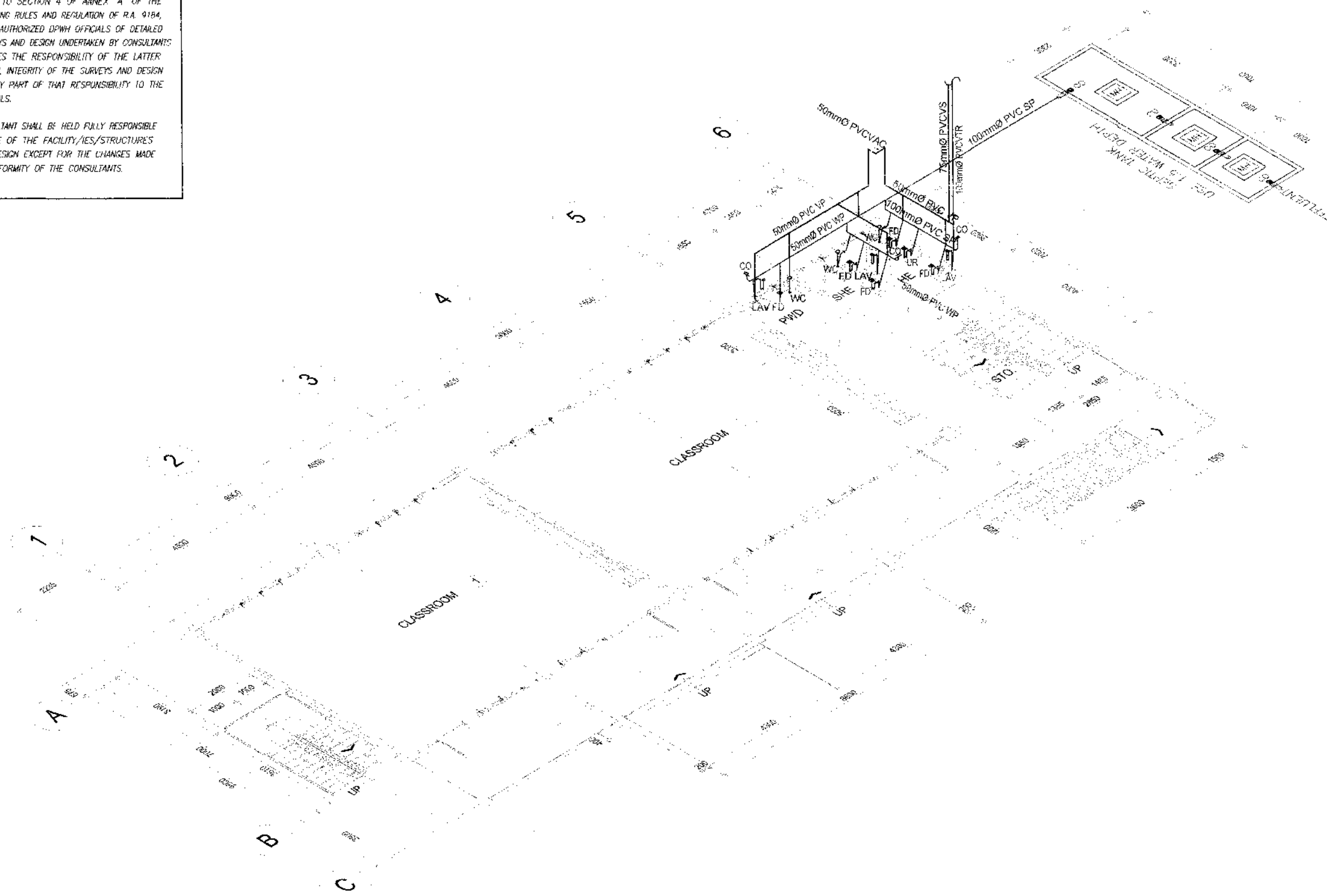
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80

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PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLIMENTING RULES AND REGULATION OF R.A. 9154, 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 FLOOR
ISOMETRIC SEWER LINE LAYOUT

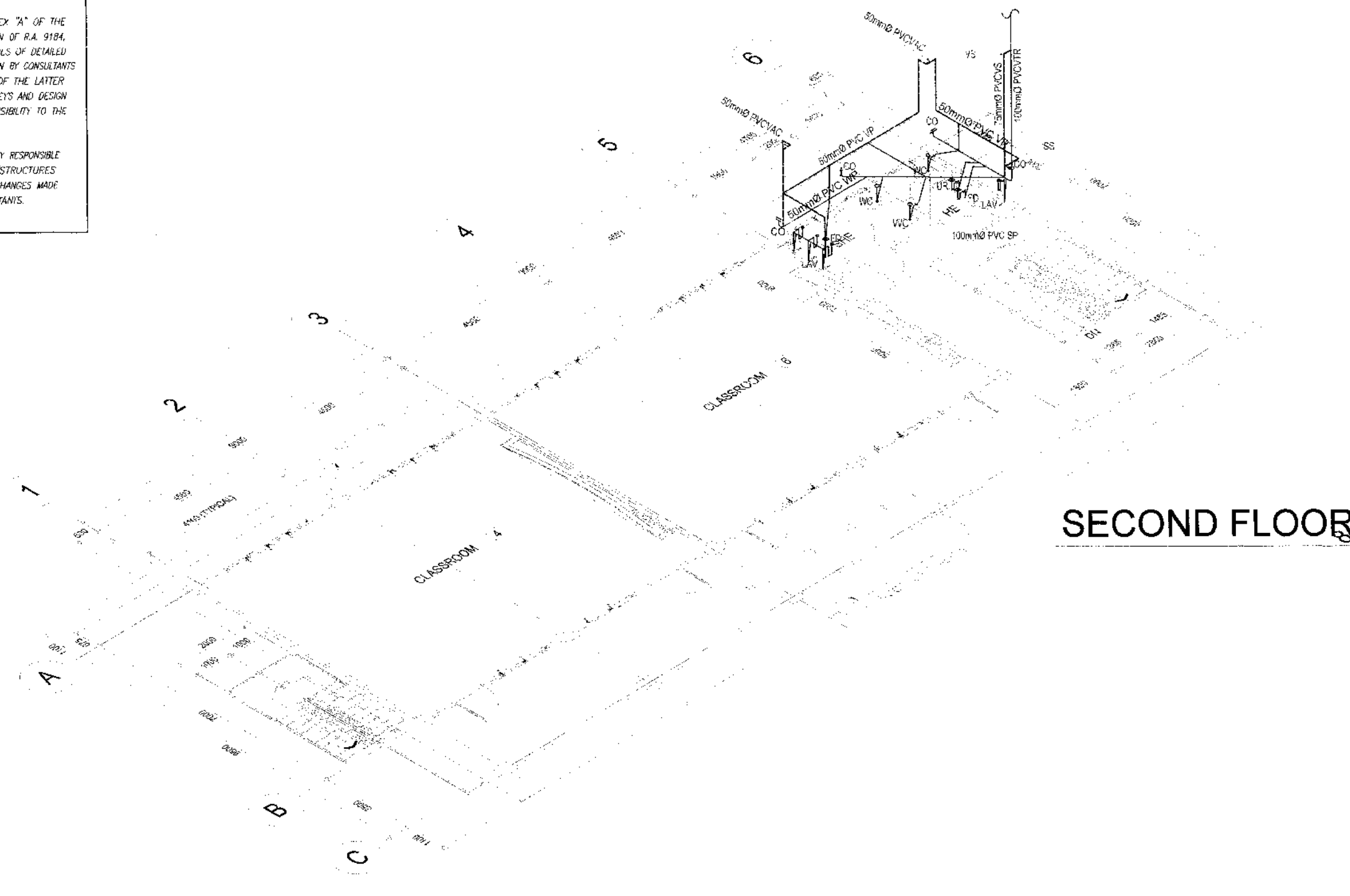
1
P 8

SCALE

1:100 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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SECOND FLOOR

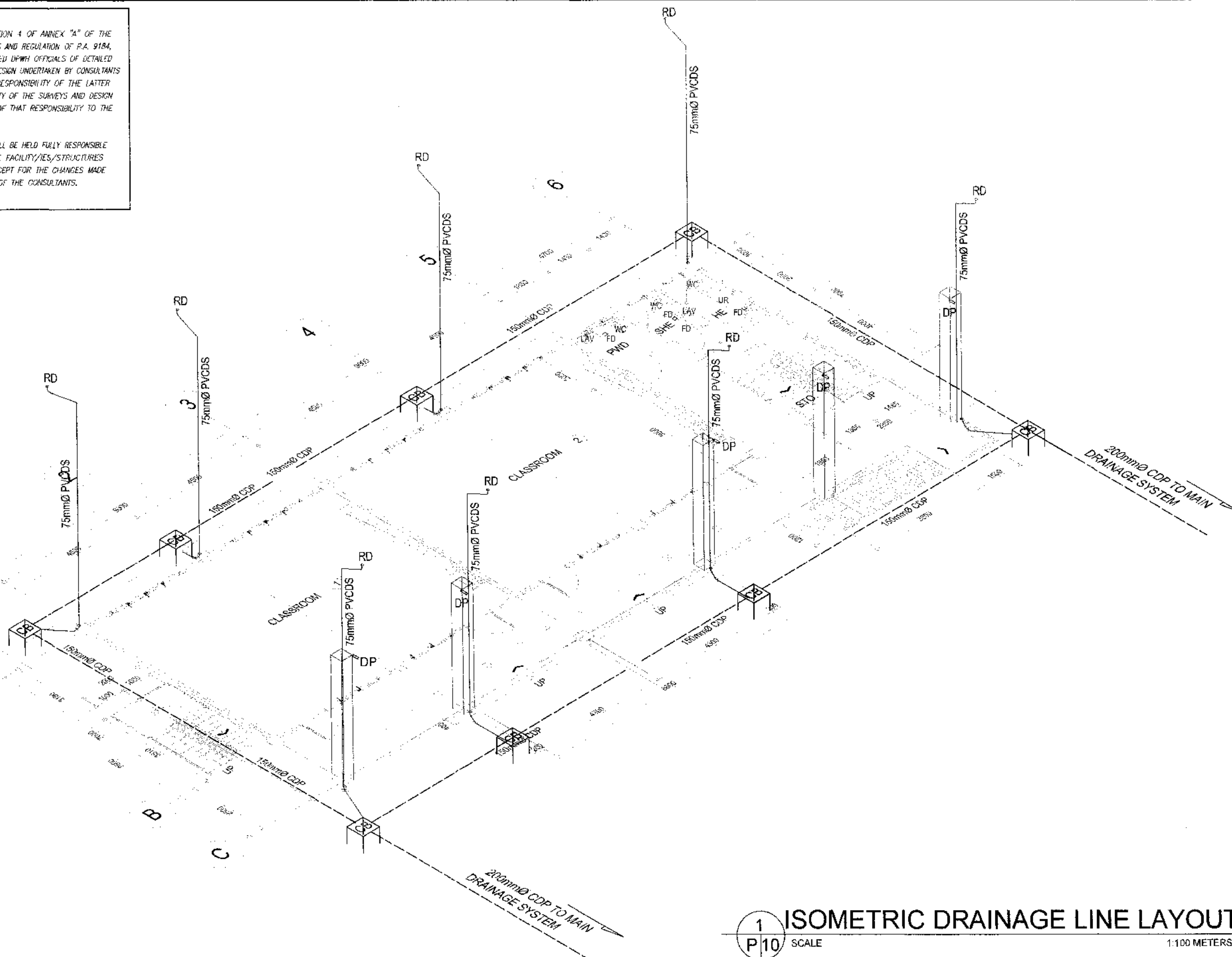
**SECOND FLOOR
 ISOMETRIC SEWER LINE LAYOUT**
 SCALE 1:100 METERS

REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PASADAN CITY	PROJECT NAME AND LOCATION: CONSTRUCTION OF SCHOOL BUILDING, DULOP NATIONAL HIGH SCHOOL, BARANGAY DULOP, MUNICIPALITY OF DUMINGAG, ZAMBOANGA DEL SUR	SHEET CONTENTS: • AS SHOWN	PREPARED: ROSETUM P. BAREA ENGINEERING ASSISTANT DATE: 04/26/15	REVIEWED: GRACEY DOMALING ENGINEER ASST. CHIEF ENGINEER - DESIGN SECTION DATE: 04/26/15	SUBMITTED: BRIANNE M. MATEO CHIEF ENGINEER - DESIGN SECTION DATE: 04/26/15	RECOMMENDED: MARIA J. FLOREN ASSISTANT DISTRICT ENGINEER DATE: 04/26/15	APPROVED: PABLO L. ESCUADRO, MPA DISTRICT ENGINEER DATE: 04/26/15	SIT NO: 09 P15	SHEET NO: 92 98
	DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE IX ZAMBOANGA DEL SUR 1ST DISTRICT ENGINEERING OFFICE PASADAN CITY								

NOTE:

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1 ISOMETRIC DRAINAGE LINE LAYOUT
P10 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, DULOP
NATIONAL HIGH SCHOOL, BARANGAY DULOP,
MUNICIPALITY OF DUMINGAG,
ZAMBOANGA DEL SUR

SHEET CONTENTS
• AS SHOWN

PREPARED BY
ROSEMARY P. ABREA
ENGINEERING ASSISTANT AND SUPER PLUMBER

REVIEWED BY
GRACE Y. COMALING
ASST. CHIEF ENGINEER - DESIGN SECTION

SUBMITTED BY
BRIAN E. VILLANUEVA
CHIEF PLANNING AND DESIGN SECTION

RECOMMENDED BY
MARIA U. FLOREN
ASSISTANT DISTRICT ENGINEER

APPROVED BY
PABLO L. ESCUADRO, MPA
DISTRICT ENGINEER

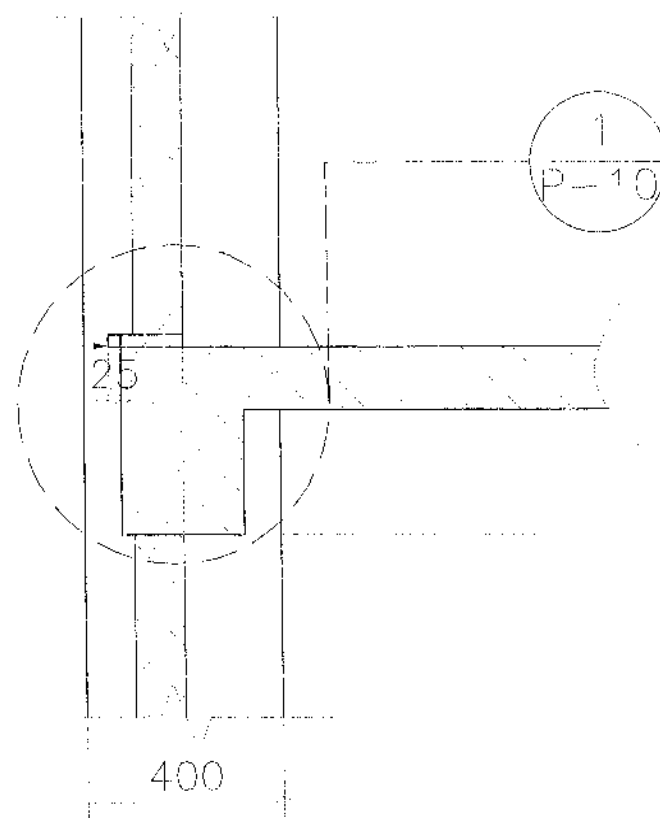
SHEET NO. 10
P15
SHEET NO. 93
98

NOTE:

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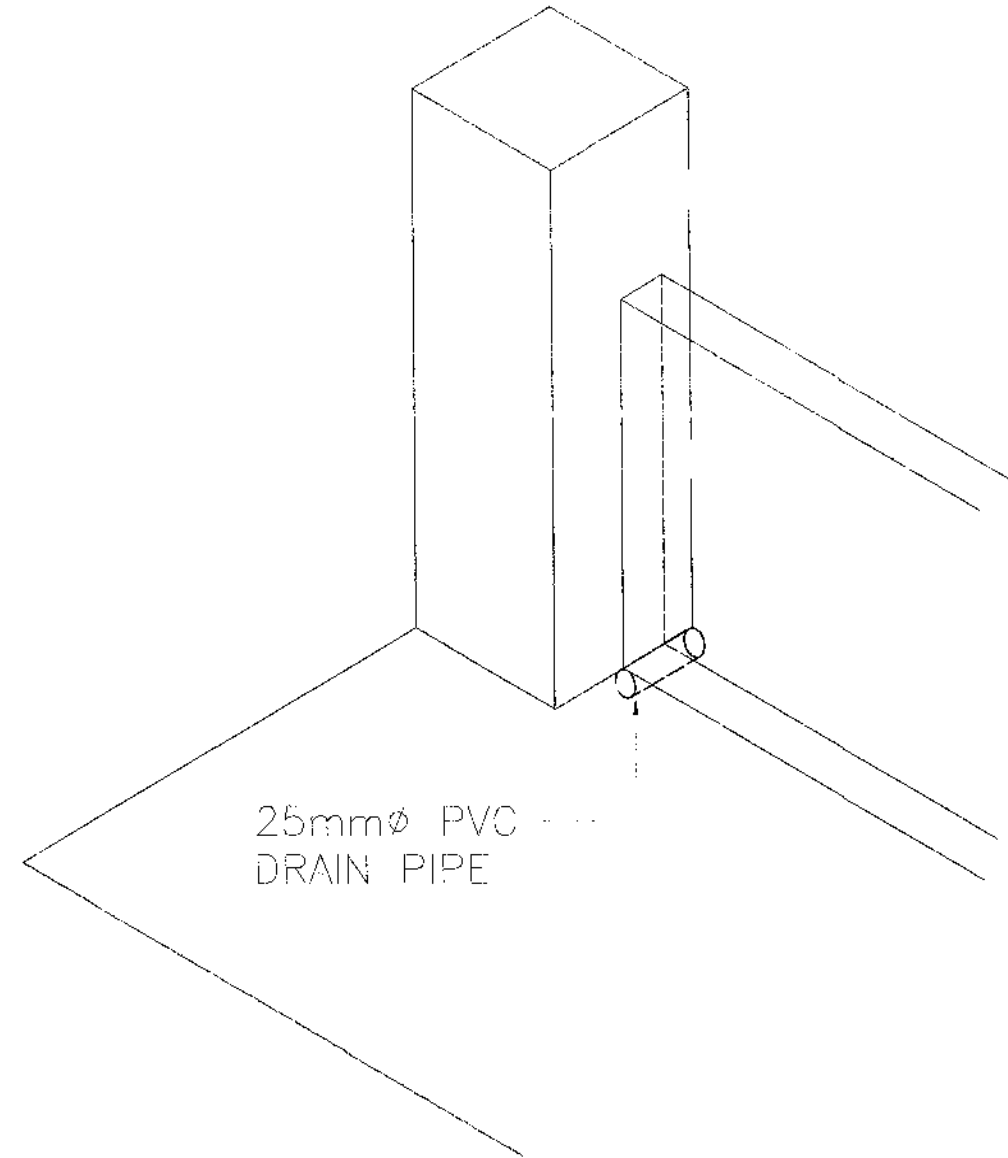
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25mmØ PVC
DRAIN PIPE



1 SPOT DETAIL
P11 SCALE 1:15 METERS

25mmØ PVC
DRAIN PIPE

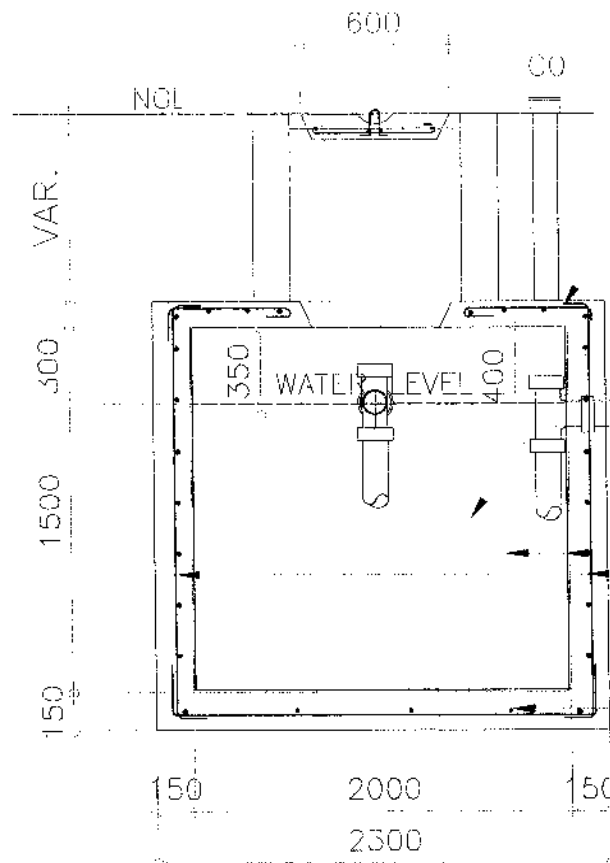


2 DETAIL SECTION OF DRAIN PIPE
P11 SCALE 1:15 METERS

NOTE:

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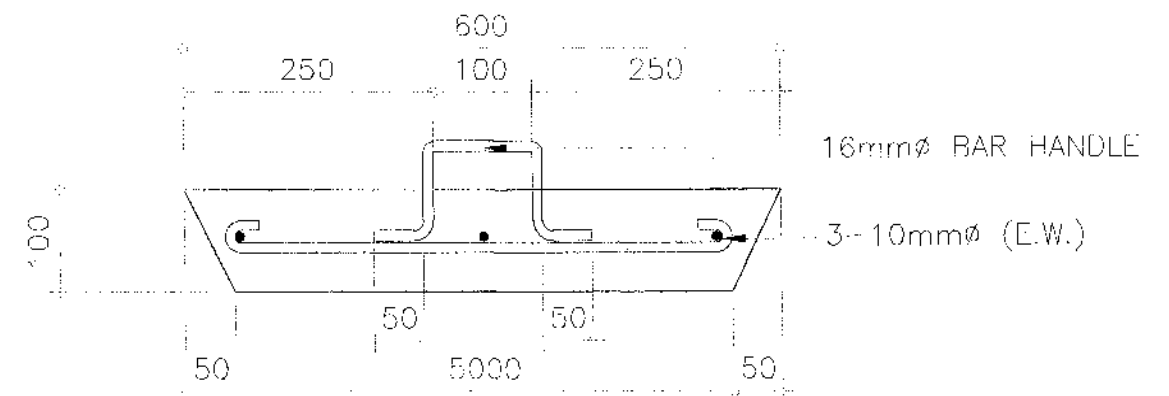


150mm THK. + FIN. SLAB
w/10mmØ BENT UP 2 UJ
OF 3 @L/4 FROM FACE
SUPPORT BW

PLASTERED w/WATERPROOFING
COMPOUND OR APPLY ONE
FACE BITUMEN TAR

WALL REINFORCEMENT
10mmØ VERT. & HOR.
BAR @200mm OC BW

150mm THK. SLAB
w/ 10mmØ REBARS
@ 300mm BOTHWAYS

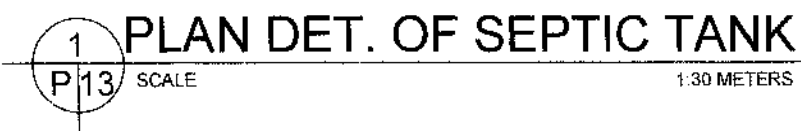


2 MANHOLE COVER DETAIL
SCALE 1:10 METERS

1 CROSS SECTION DETAIL
SCALE 1:30 METERS

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150mm THK. FIN. SLAB
w/10mmØ REBARS
@200mm OC BENT UP 2
OUT OF 3 AT L/4 FROM
FACE SUPPORT BOTHWAYS

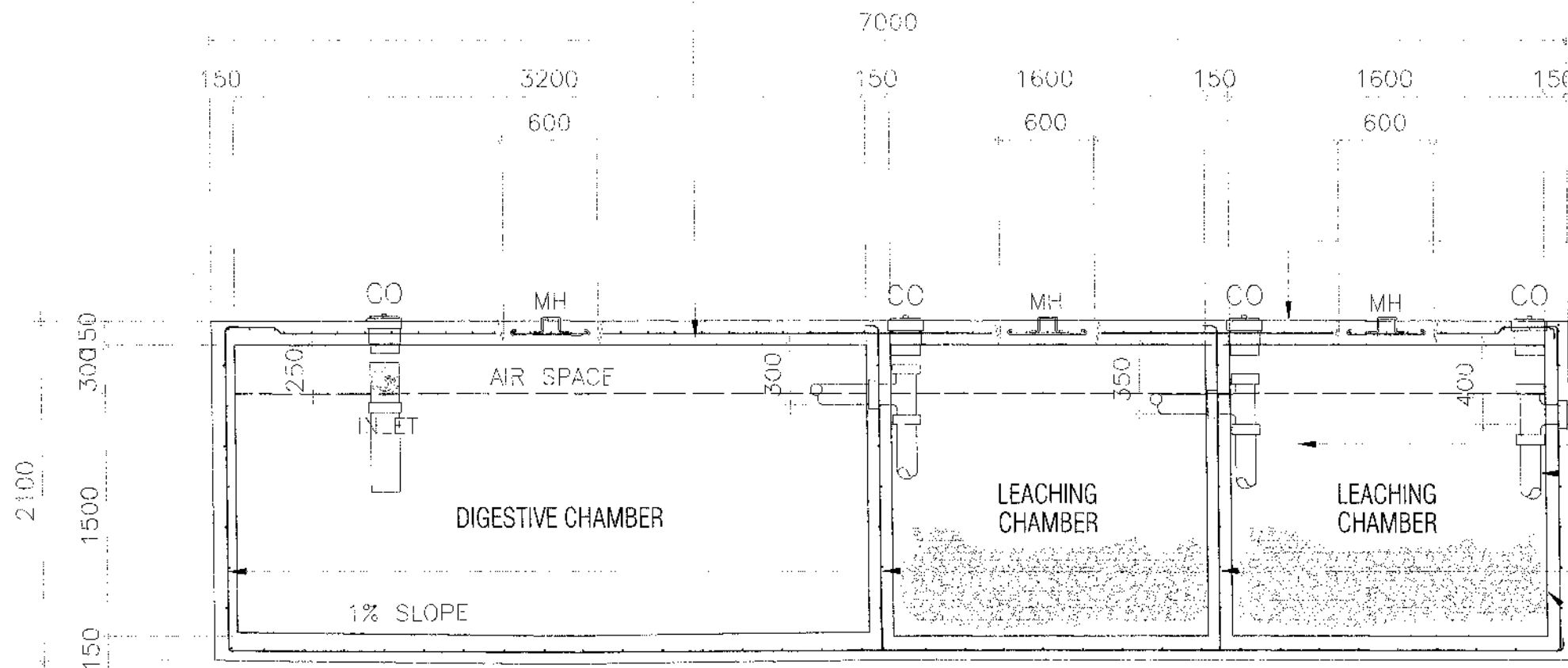
150mm THK. SLAB
w/ 10mmØ REBARS
@ 300mm BOTHWAYS

150mmØ PVC SP, TYP.

OUTLET
PLASTERED w/WATERPROOFING
COMPOUND OR APPLY ONL
FACE BITUMEN TAR

WALL REINFORCEMENT
10mmØ VERT. & HOR.
BAR @200mm OC BW

CONCRETE WALL W/HOT
APPLIED ASPHALT
WATER PROOFING
(INSIDE FACE)

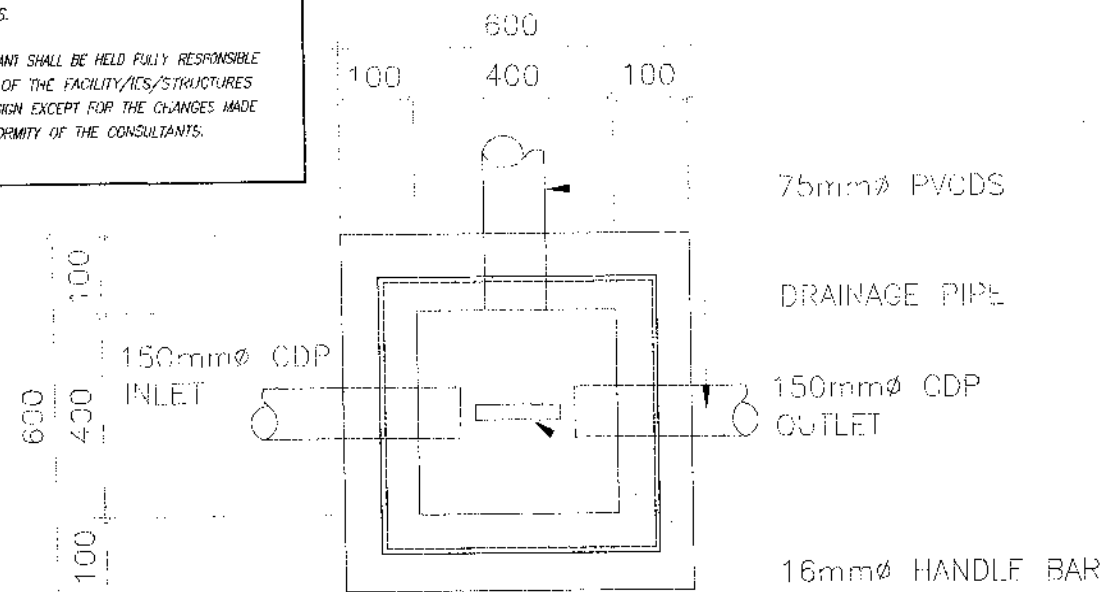


1 LONGITUDINAL SECTIONAL DETAIL
P14 SCALE 1:30 METERS

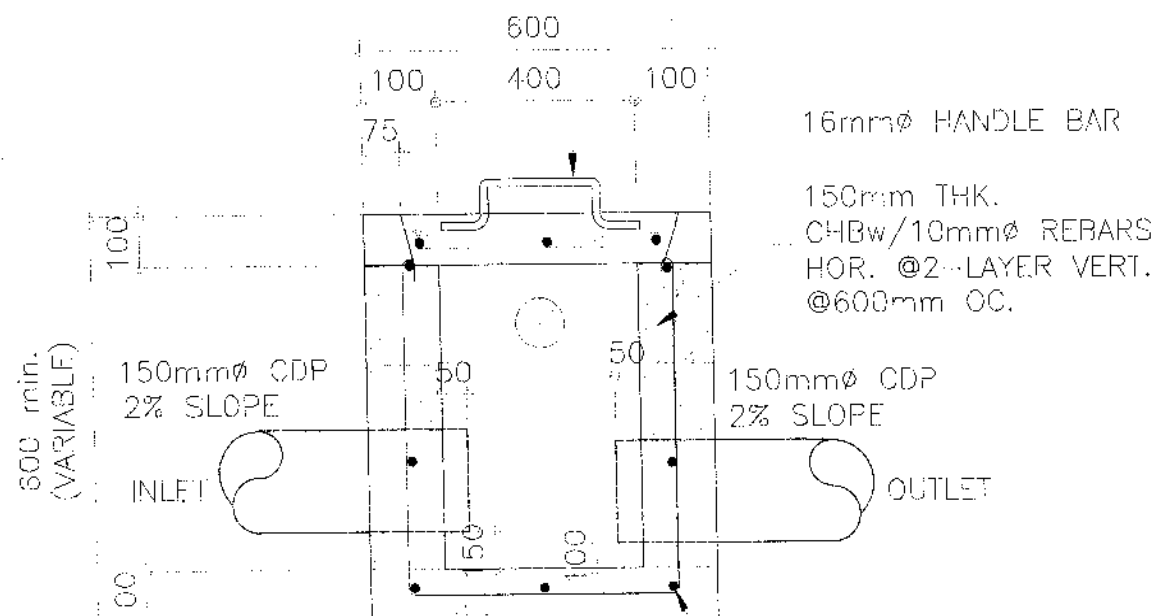
NOTE:

PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED UPWH 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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PLAN



SECTION

1 CATCH BASIN DETAIL
P15 SCALE 1:20 METERS

LEGEND:

PT	BLADDER/PNEUMATIC TANK
E	ELECTRIC MOTOR
P	PUMP
U	UNION PATENT
FIV	FOOT VALVE
FV	FLOAT VALVE
PP	PRIMING PORT
CB	CATCH BASIN
CDP	CONCRETE DRAIN PIPE
CV	CHECK VALVE
HB	HANDLE BAR
FD	FLOOR DRAIN
PPR CWL	POLYPROPYLENE COLD WATER LINE
PPR CWR	POLYPROPYLENE COLD WATER RISER
GV	GATE VALVE
MH	MANHOLE
PVCDS	POLYVINYL CHLORIDE DOWNSPOUT
PVCDP	POLYVINYL CHLORIDE DRAIN PIPE
PVCDS	POLYVINYL CHLORIDE DOWNSPOUT
CO	CLEAN OUT
PVCSP	POLYVINYL CHLORIDE SOIL PIPE

VAC	PVC/VAC POLYVINYL CHLORIDE VENT. ACROSS CEILING
V	PVC/VAC POLYVINYL CHLORIDE VENT. PIPE
VS	PVC/VAC POLYVINYL CHLORIDE VENT. STACK
VTR	PVC/VAC POLYVINYL CHLORIDE VENT. TROUGH ROOF/WALL
WP	PVC/WP POLYVINYL CHLORIDE WASTE PIPE
WS	PVC/WS POLYVINYL CHLORIDE WASTE STACK
RD	ROOF DRAIN
UD	URINAL DRAIN
WC	WATER CLOSET
LAV	LAVATORY
KS	KITCHEN SINK

PLUMBING NOTES:

- GRADES OF HORIZONTAL PIPINGS
RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT AND AT A FORM GRADE NOT LESS THAN TWO PERCENT (2%)
- CHANGE IN DIRECTION
ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY-FIVE DEGREES (45°) WYES, LONG SWEEP QUARTER BEND, SIXTH-EIGHT OR SIXTEENTH BEND. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL, A SINGLE 1/8 BEND COMBINATION MAY BE USED ON VERTICAL STACKS, AND SHORT QUARTER BENDS MAY BE USED ON WASTE LINE, TEE AND CROSSES MAYBE USED IN VENT PIPES.
- PROHIBITED FITTINGS
NO DOUBLE HUB OR TEE BRANCH SHALL BE USED ON HORIZONTAL SOIL AND WASTE LINES, THE DRILLINGS AND TAPPING OF HOUSE DRAIN, WASTE OR VENT PIPES AND USE OF SADDLE HUB AND BEND ARE PROHIBITED.
- PIPE CLEAN-OUTS
CLEAN-OUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:
a) EVERY CHANGE OF HORIZONTAL DIRECTION EXCEEDING TWENTY TWO AND ONE-HALF DEGREES (22 1/2°).
b) ONE AND ONE-HALF METERS (1.50m.) INSIDE THE PROPERTY LINES BEFORE THE HOUSE DRAINAGE CONNECTION.
c) EVERY FIFTEEN METERS (15.00m) IN HORIZONTAL RUN OF PIPES.
d) AT THE END OF ANY HORIZONTAL PIPE LINES.
- THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
- NOT LESS THAN 0.30 METER OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PART OF

VAULT ROOF SLAB.

- NO SEPTIC VAULT SHALL BE CONSTRUCTED UNDER THE BUILDING.
- ALL PLUMBING WORKS SHALL BE UNDER THE SUPERVISION OF A LICENSED MASTER PLUMBER AND A LICENSED PLUMBING CONTRACTOR.

DESIGN CRITERIA

- LIVE LOAD _____ 1000Pa
- ALLOWABLE STRESSES
 - CONCRETE
 - FOR FOOTING, BEAMS AND SLABS
 $f_c' = 20 \text{ MPa}$
 - CONCRETE MASONRY UNITS (LOAD BEARING CHB)
 $f_m' = 6.90 \text{ MPa}$, $f_m = 2.41 \text{ MPa}$
 - REINFORCING STEEL BARS
FOR BARS SMALLER THAN 16mm
 $f_y = 230 \text{ MPa}$
 - ASSUMED ALLOWABLE BEARING CAPACITY $Y = 100 \text{ kPa}$

NOTE:

WATER TABLE IS 1500 BELOW GROUND LEVEL.