

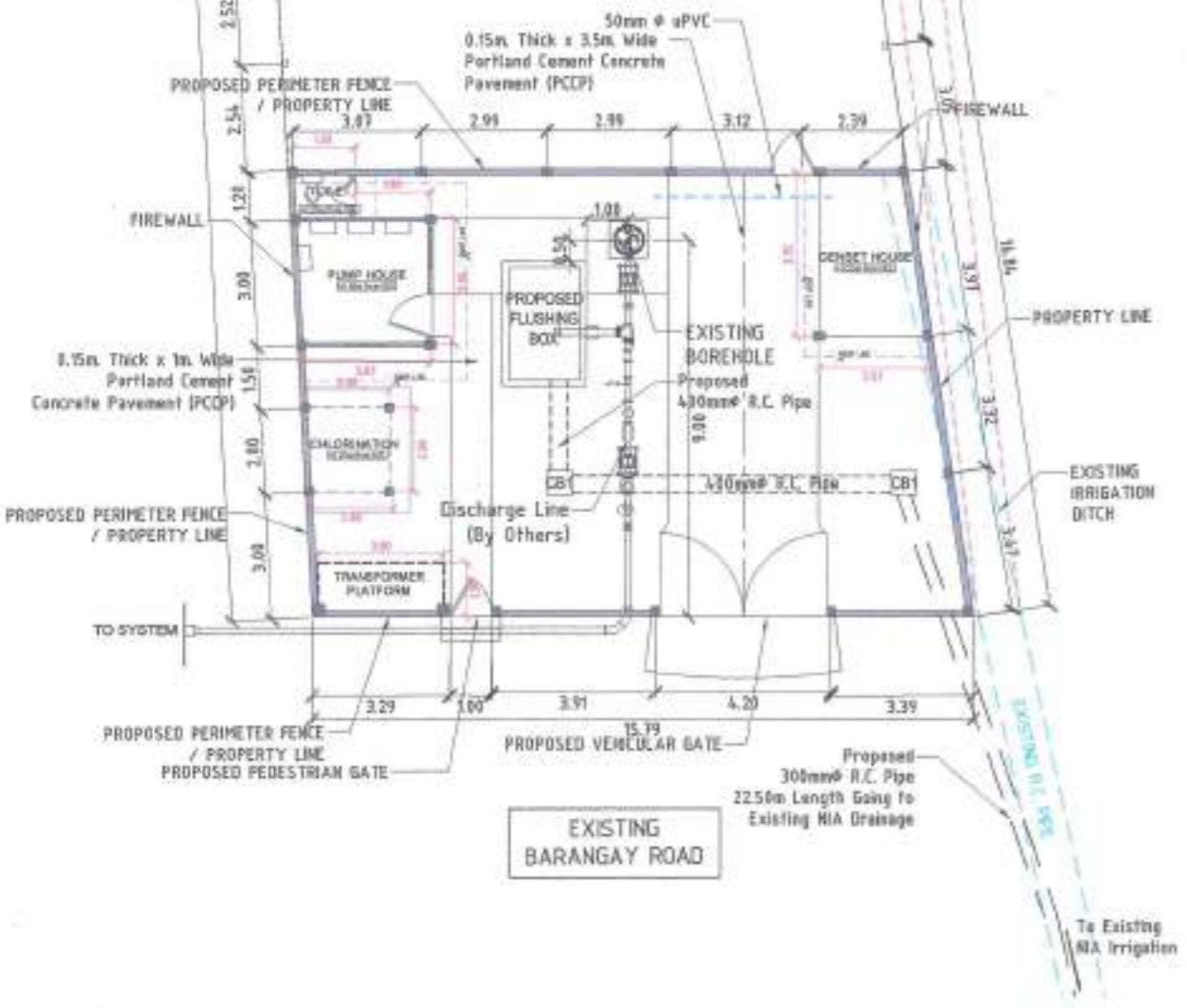


TECHNICAL DESCRIPTION			
LINE	BEARING	DISTANCE	
LOT 1607-A-2			
1	2	S 03° 15' W	15.79 mts.
2	3	S 07° 53' W	30.85 mts.
3	4	N 02° 46' W	14.56 mts.
4	5	N 77° 49' E	15.36 mts.
5	6	S 11° 10' E	3.63 mts.
6	1	N 80° 55' E	16.97 mts.

24 PCS. CONCRETE POST EQUALLY SPACED WITH 5 LAYERS BARBED WIRE FOR TEMPORARY FENCE



⊖ PERSPECTIVE

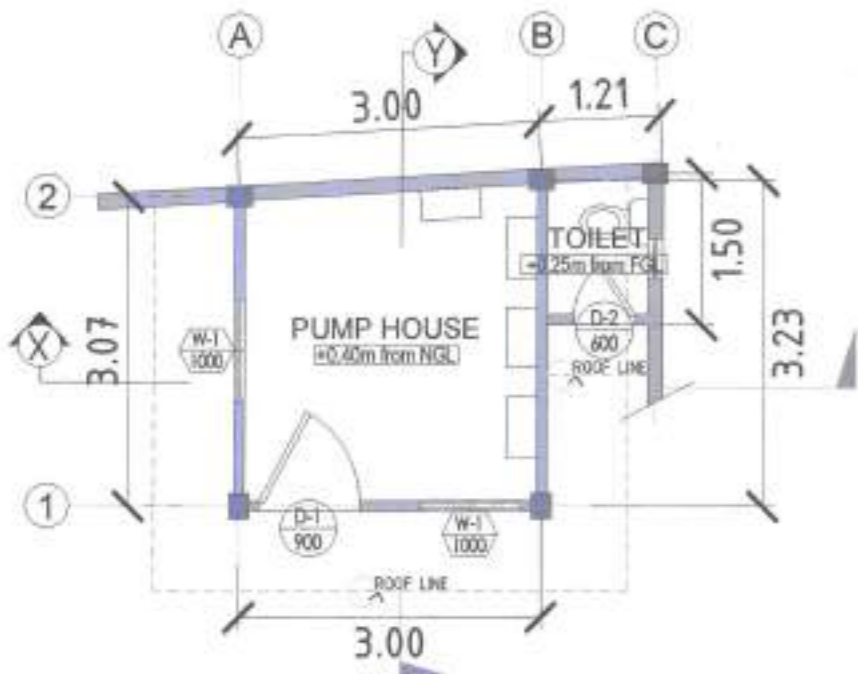


⊖ VICINITY MAP

SITE DEVELOPMENT PLAN

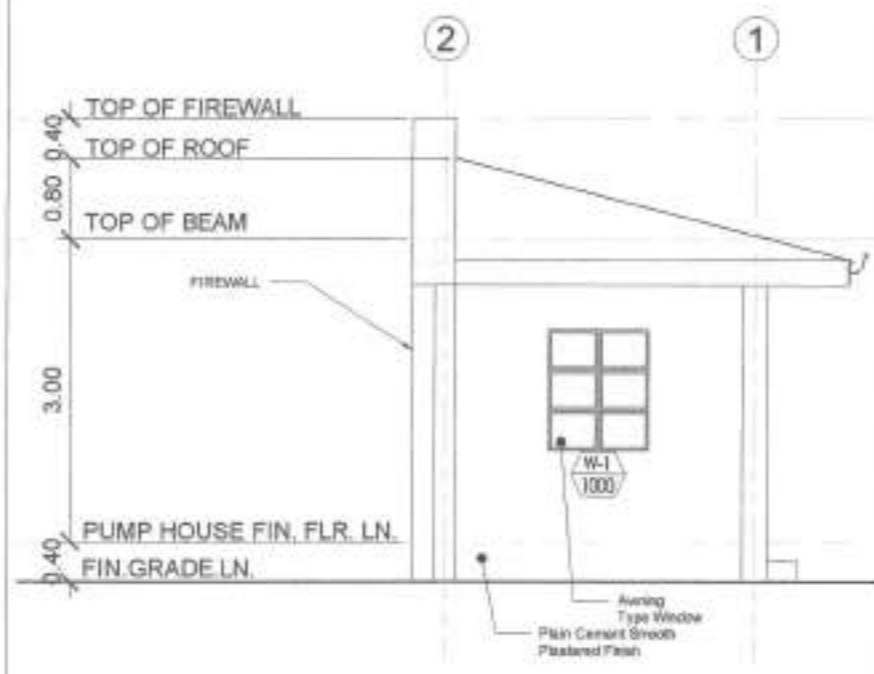
SCALE 1 : 175 MTS

N.T.S.



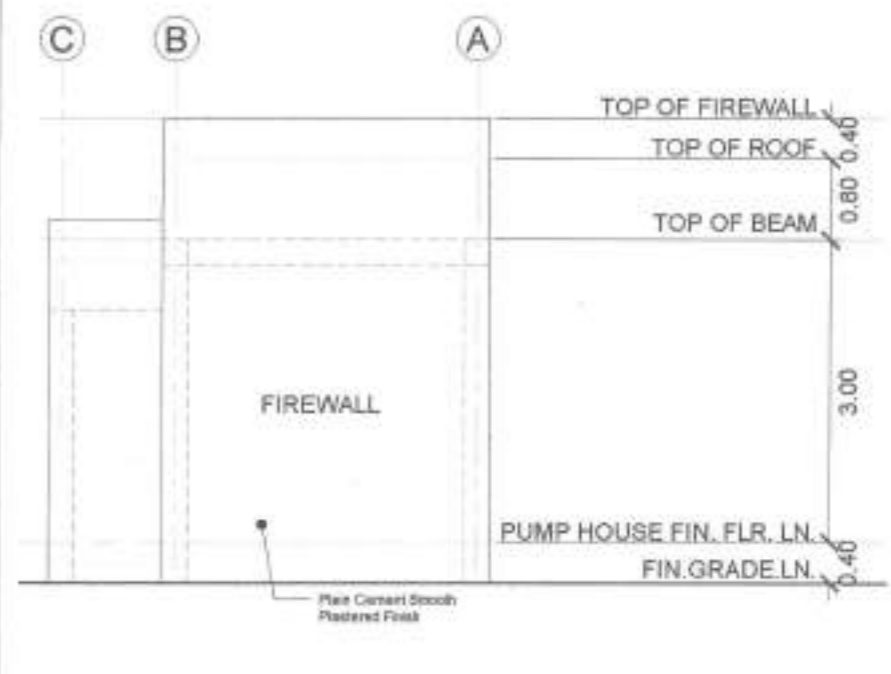
FLOOR PLAN (PUMP HOUSE)

SCALE 1 : 75 MTS



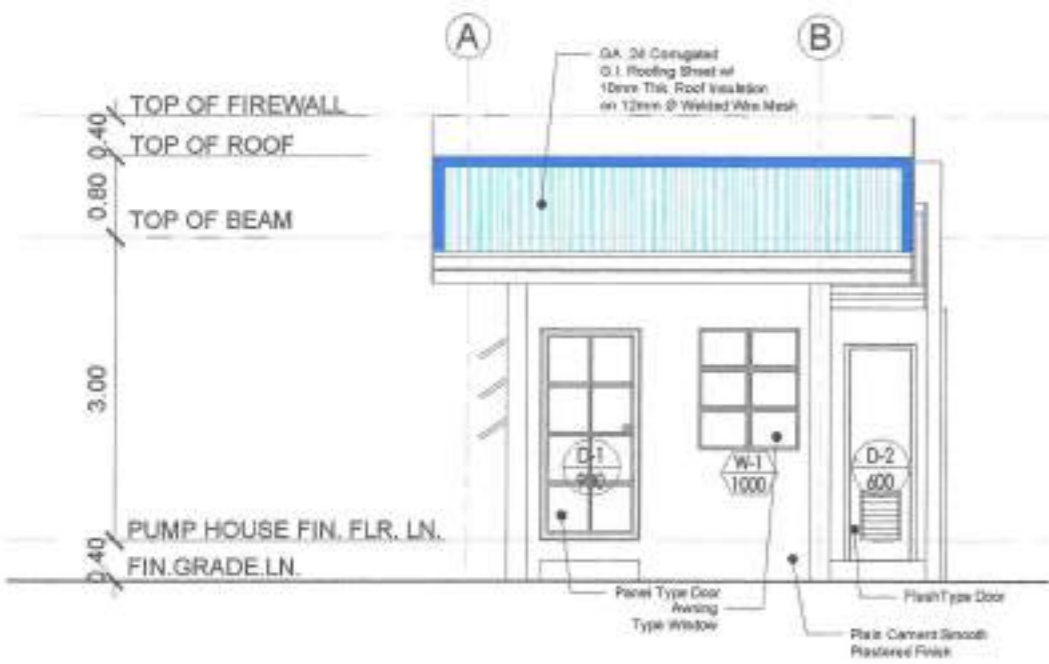
LEFTSIDE ELEVATION

SCALE 1 : 75 MTS



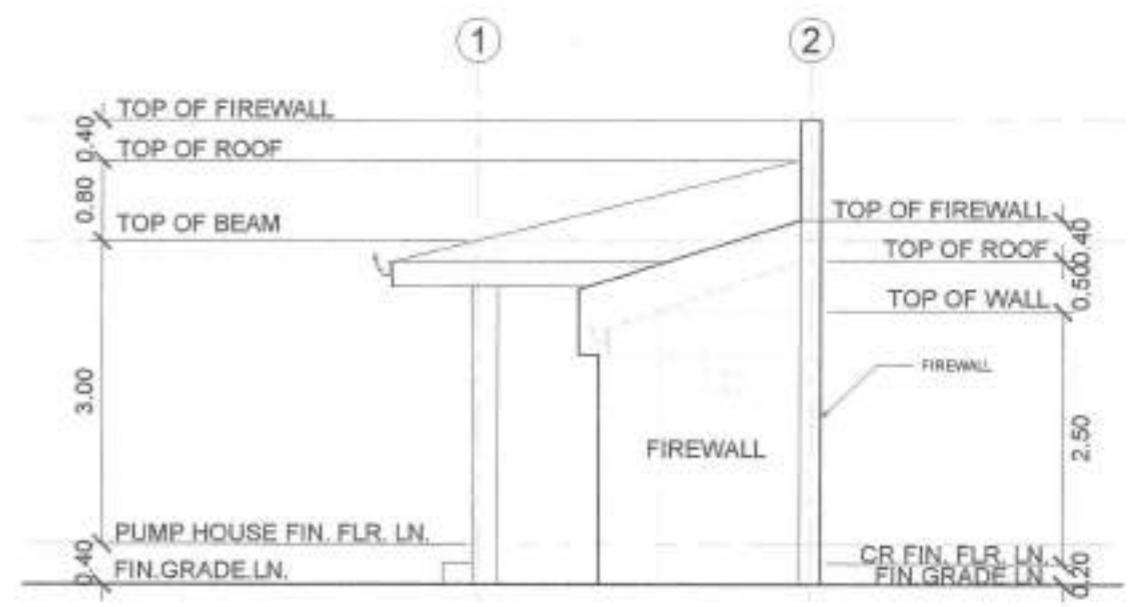
REAR ELEVATION

SCALE 1 : 75 MTS



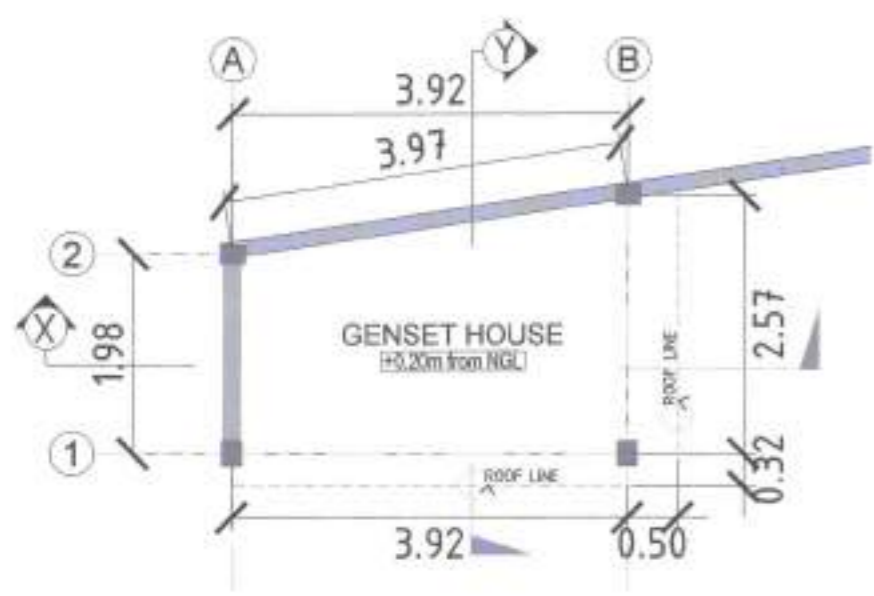
FRONT ELEVATION

SCALE 1 : 75 MTS

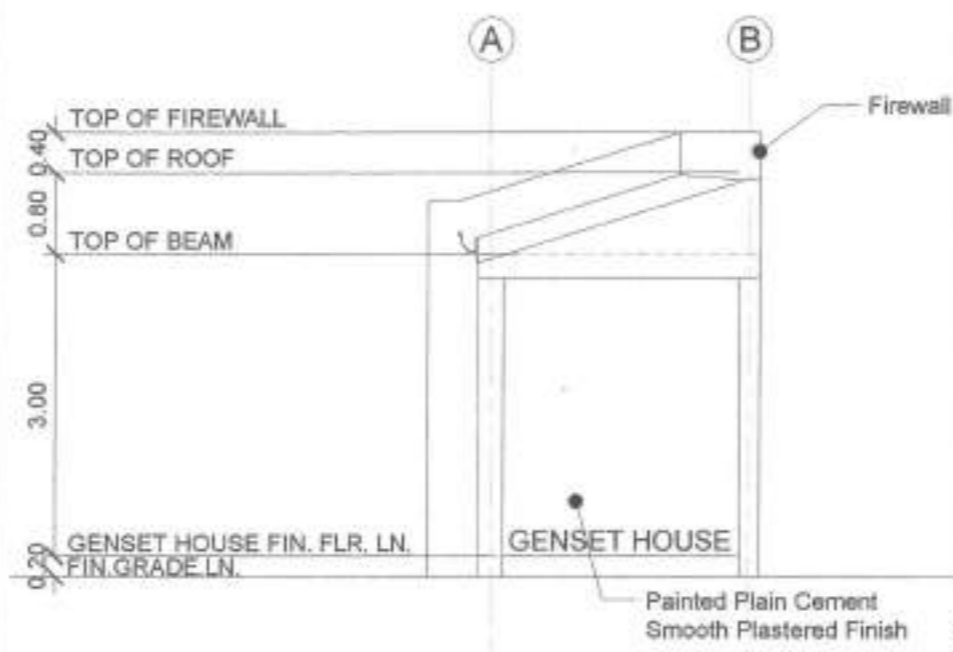


RIGHTSIDE ELEVATION

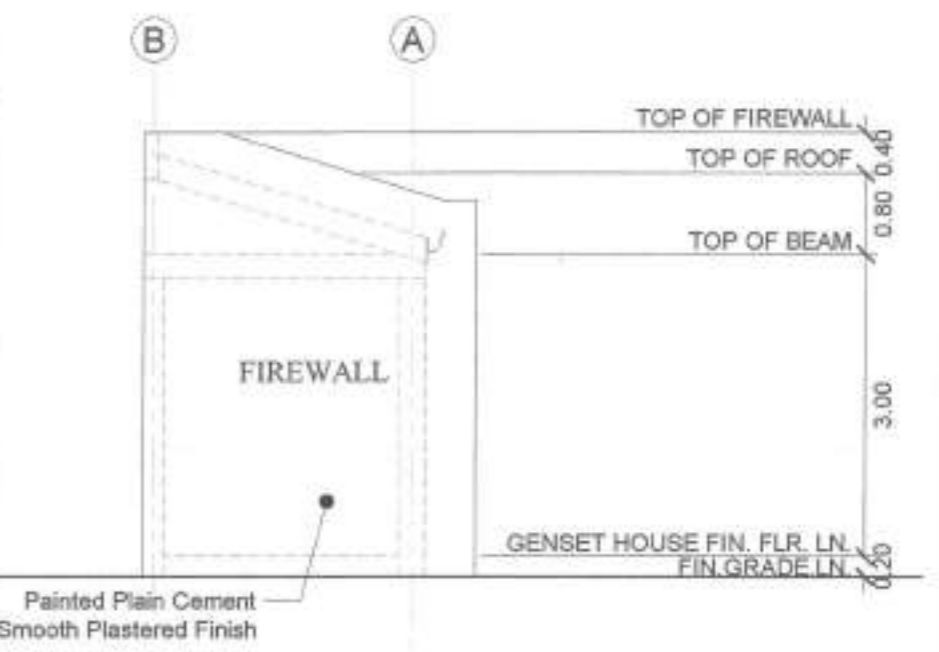
SCALE 1 : 75 MTS



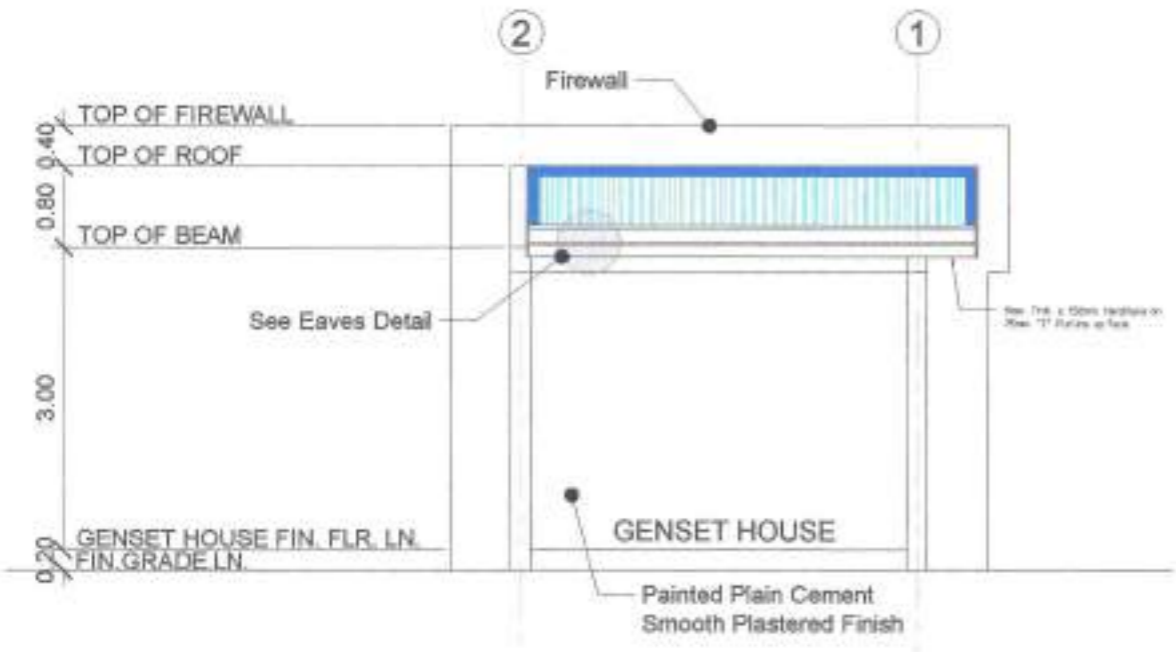
FLOOR PLAN (GENSET HOUSE) SCALE 1 : 75 MTS



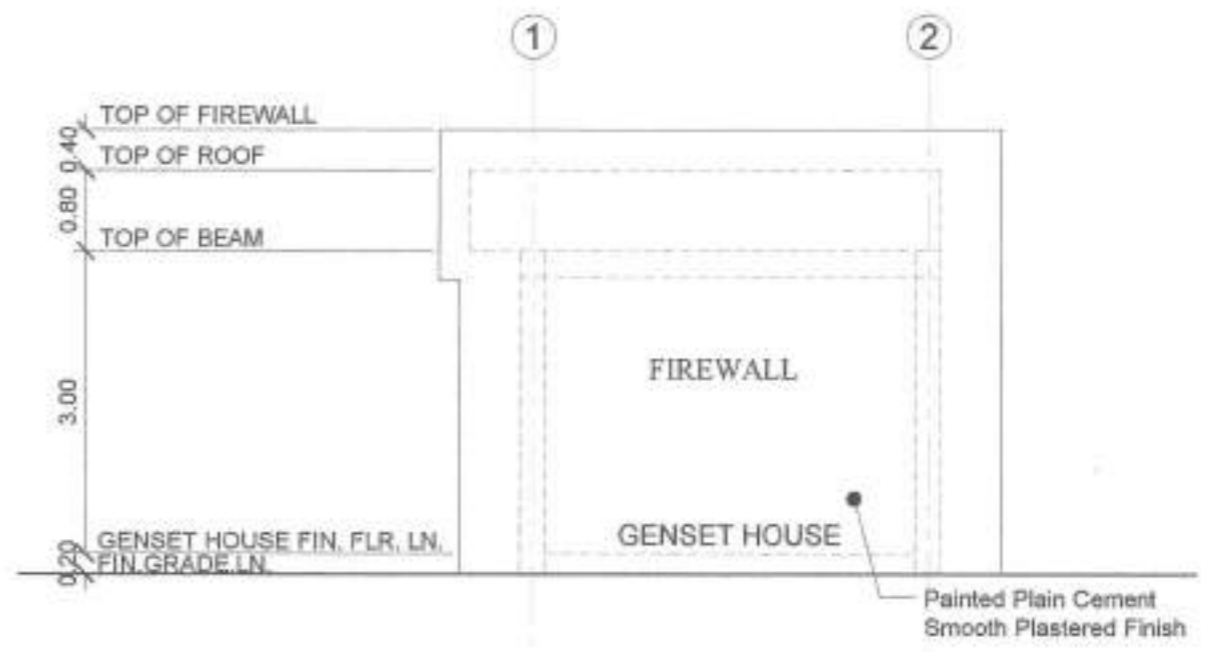
RIGHTSIDE ELEVATION SCALE 1 : 75 MTS



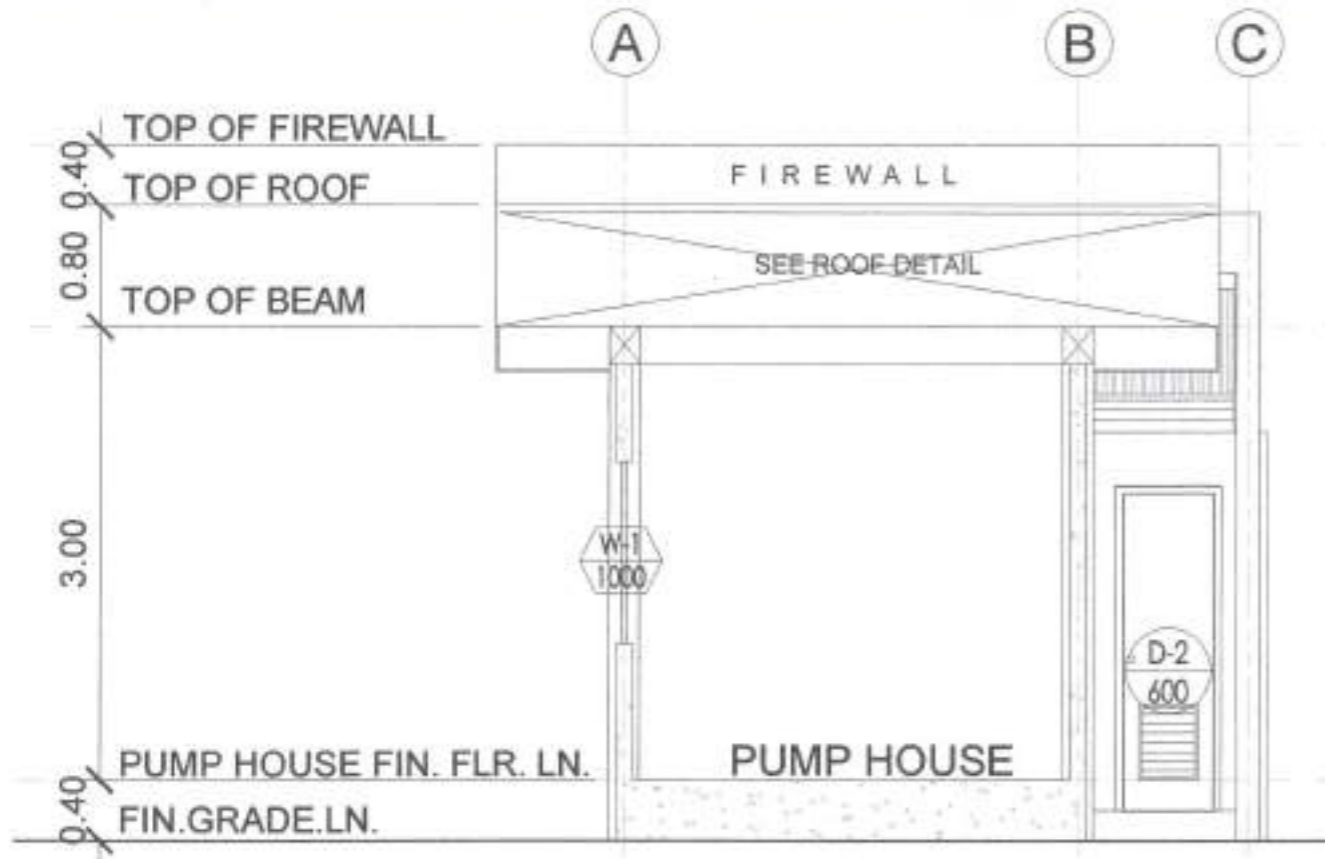
LEFTSIDE ELEVATION SCALE 1 : 75 MTS



FRONT ELEVATION SCALE 1 : 75 MTS

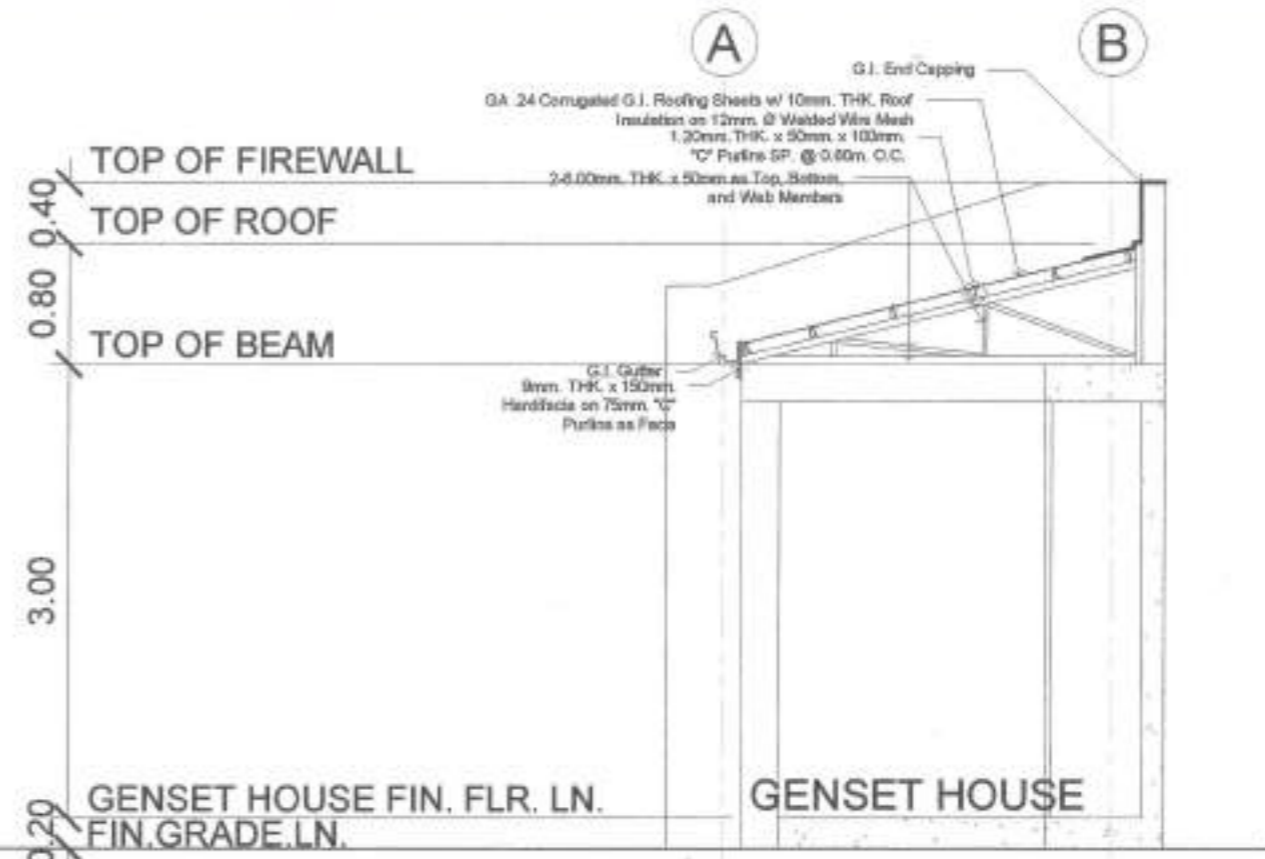


REAR ELEVATION SCALE 1 : 75 MTS



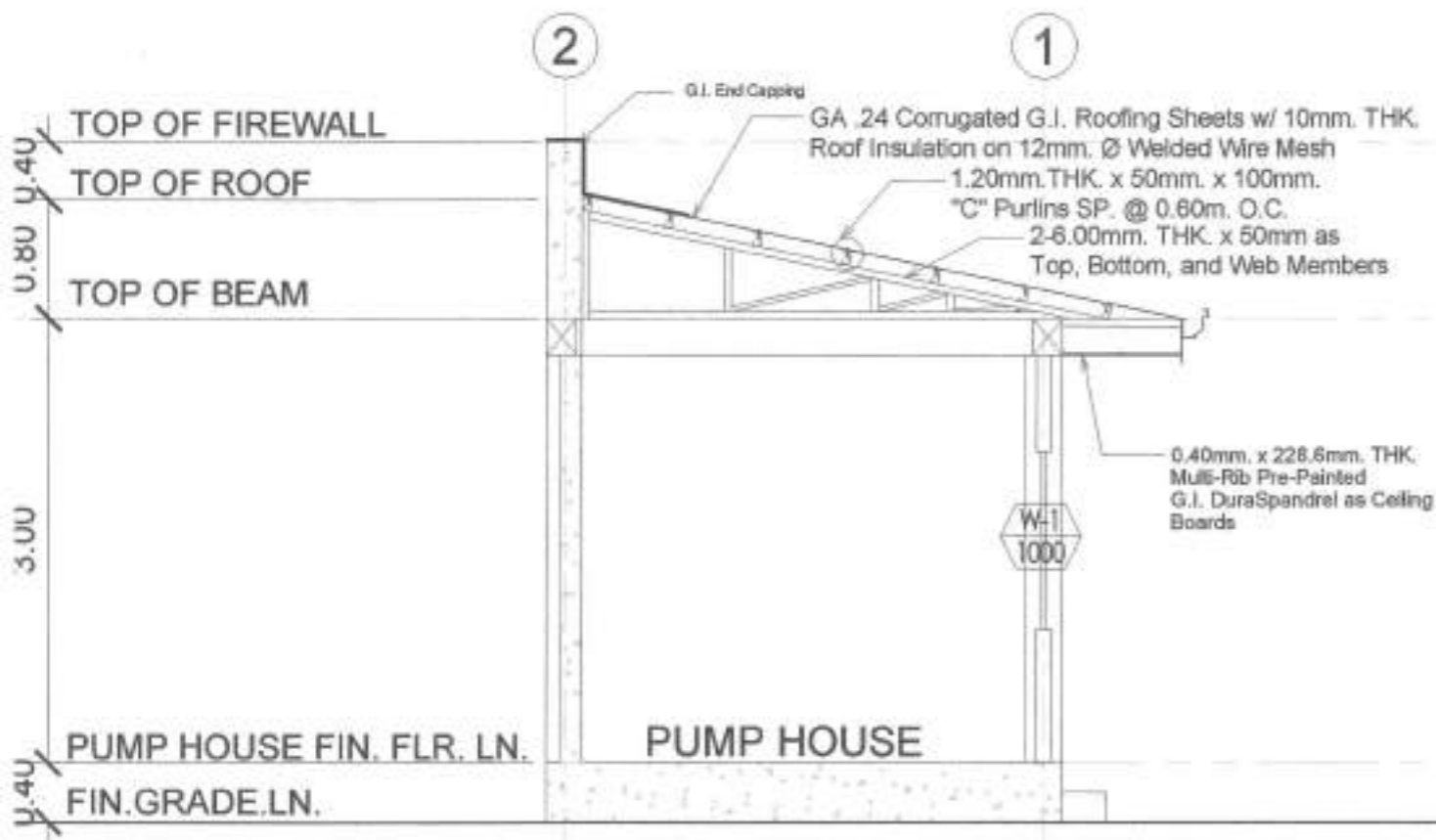
SECTION THRU "X-X" (Pump House)

SCALE 1 : 50 MTS



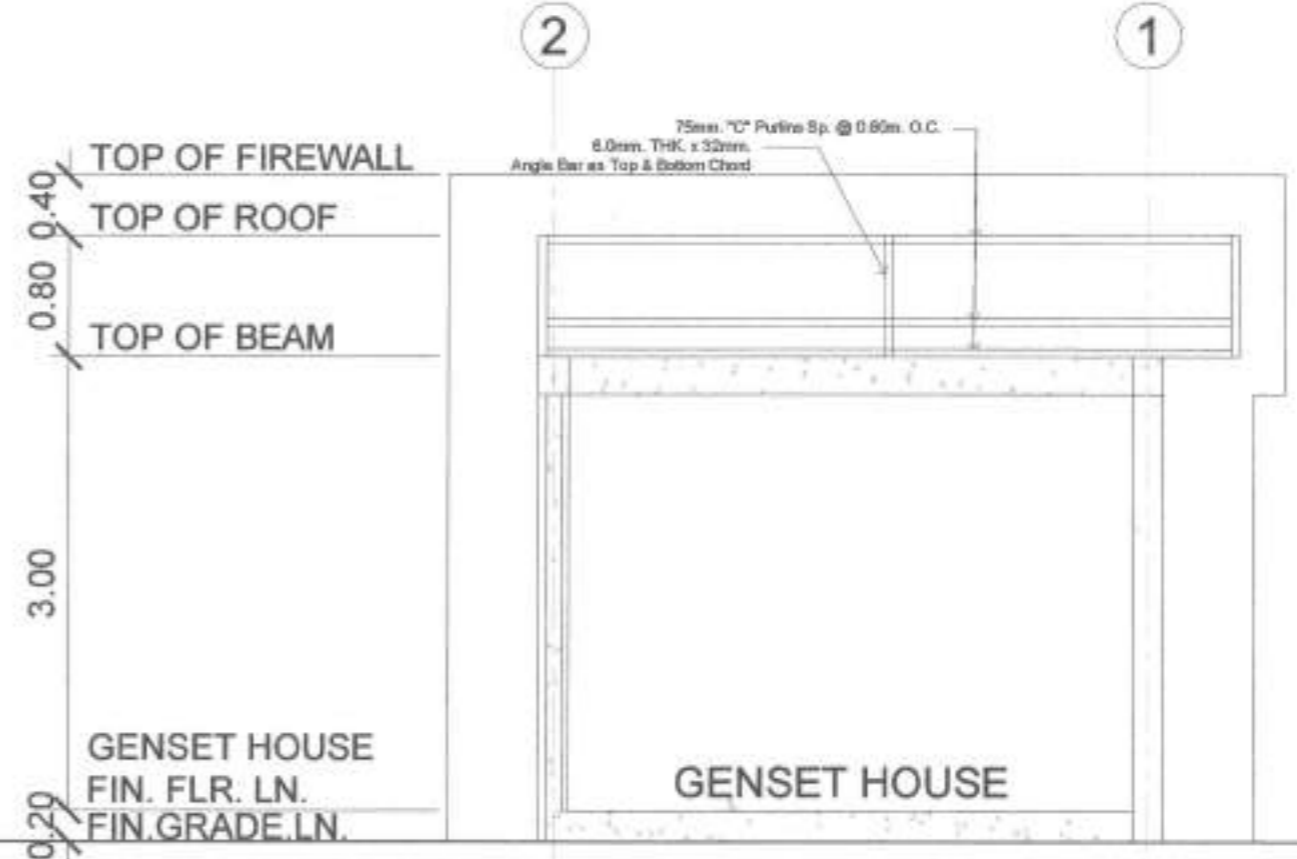
SECTION THRU "X-X" (Genset House)

SCALE 1 : 50 MTS



SECTION THRU "Y-Y" (Pump House)

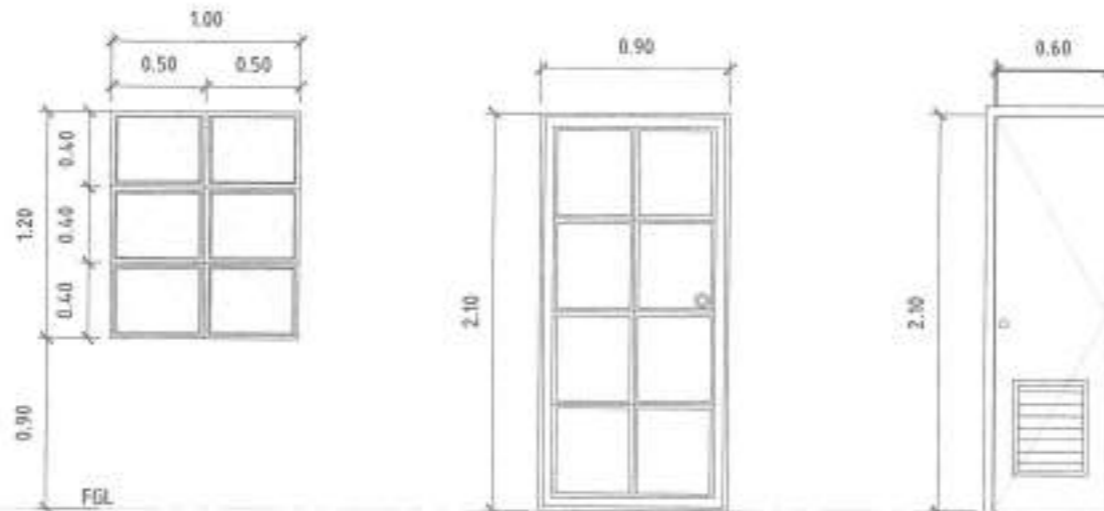
SCALE 1 : 50 MTS



SECTION THRU "Y-Y" (Genset House)

SCALE 1 : 50 MTS

<p>Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 40 J. Miranda Avenue, Naga City</p>	<p>PREPARED BY: SAMUEL A. AMORES DES - USA, PDCB</p>	<p>CHECKED BY: SONJUN O. MILLARES OIC - Dep. Manager A, EED</p>	<p>RECOMMENDING APPROVAL: ARTURO M. MARCO Dep. Manager A, PD</p>	<p>APPROVED: ROQUE FRANCISCO Assistant General Manager, O&TS</p>	<p>APPROVED: FLORENCIO Y. MONGOSO JR., CSEE General Manager A</p>	<p>PROJECT TITLE/LOCATION: PROPOSED STA. LUCIA II PUMPING STATION Zone 5, Barangay Sta. Lucia, Magarao, Camarines Sur</p>	<p>SHEET CONTENTS: SECTION THRU "X-X" SECTION THRU "Y-Y"</p>	<p>SHEET NO.: 4 / 18 Date: 04-24</p>
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W-1
1000

D-1
900

D-2
600

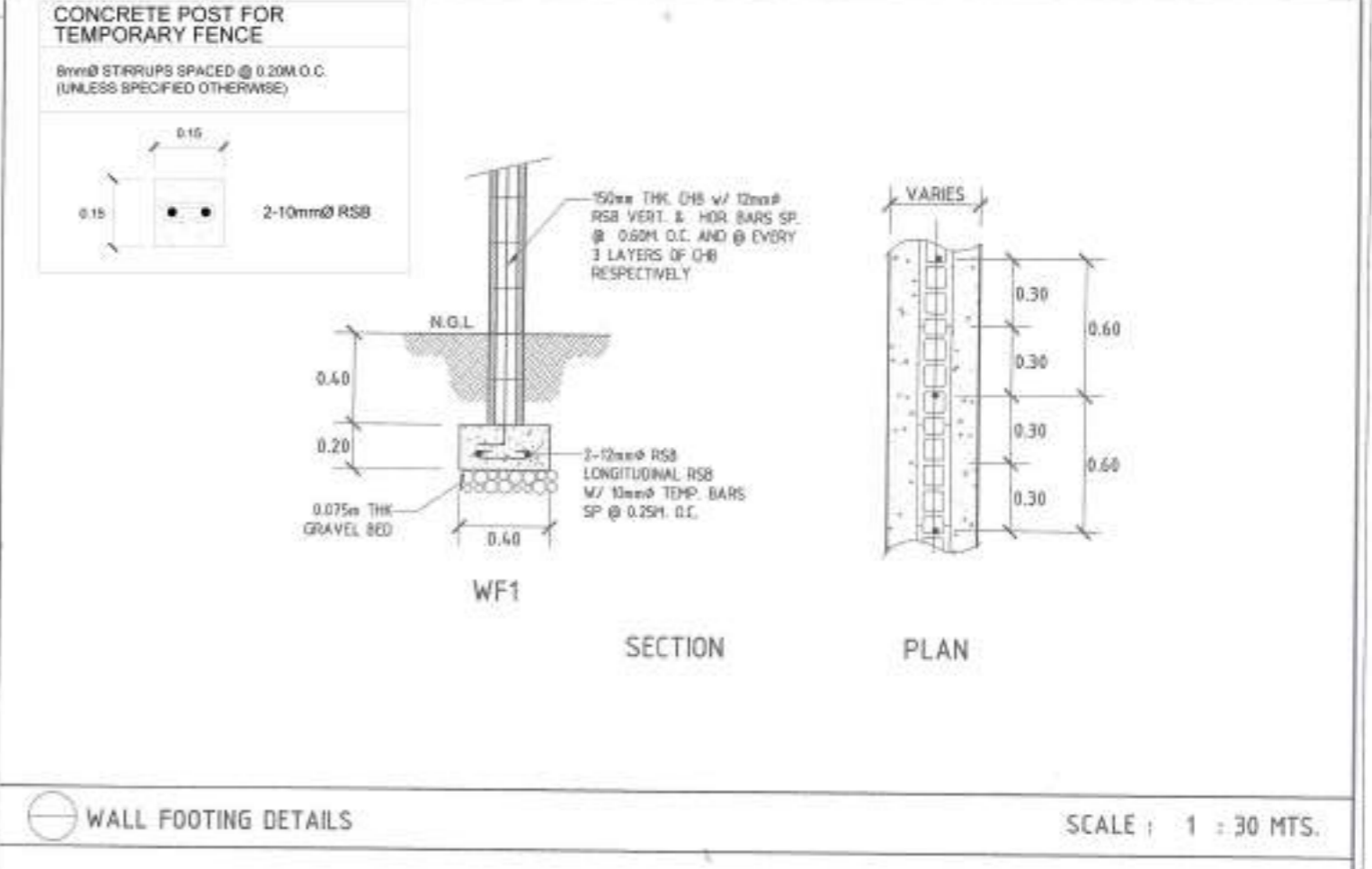
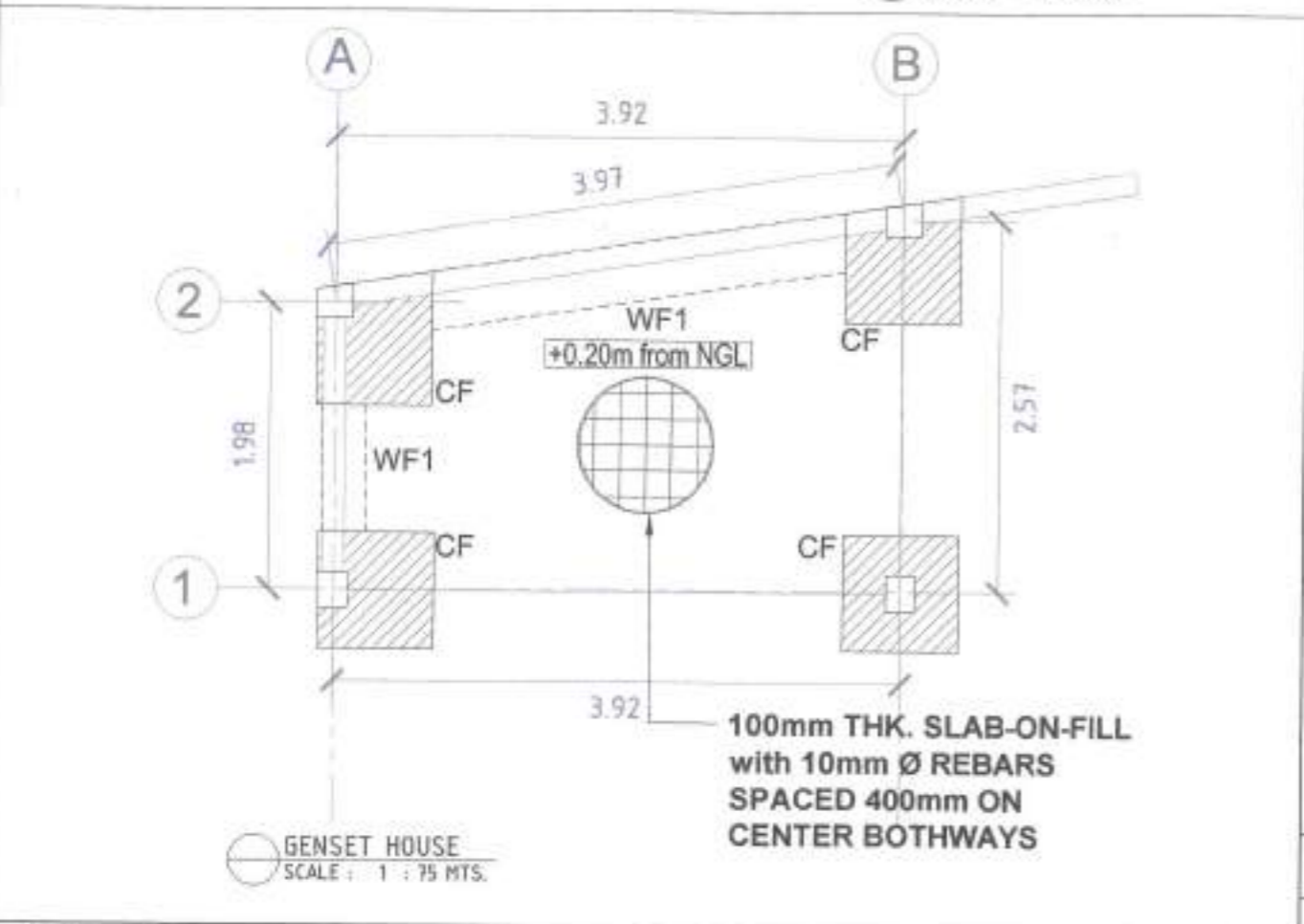
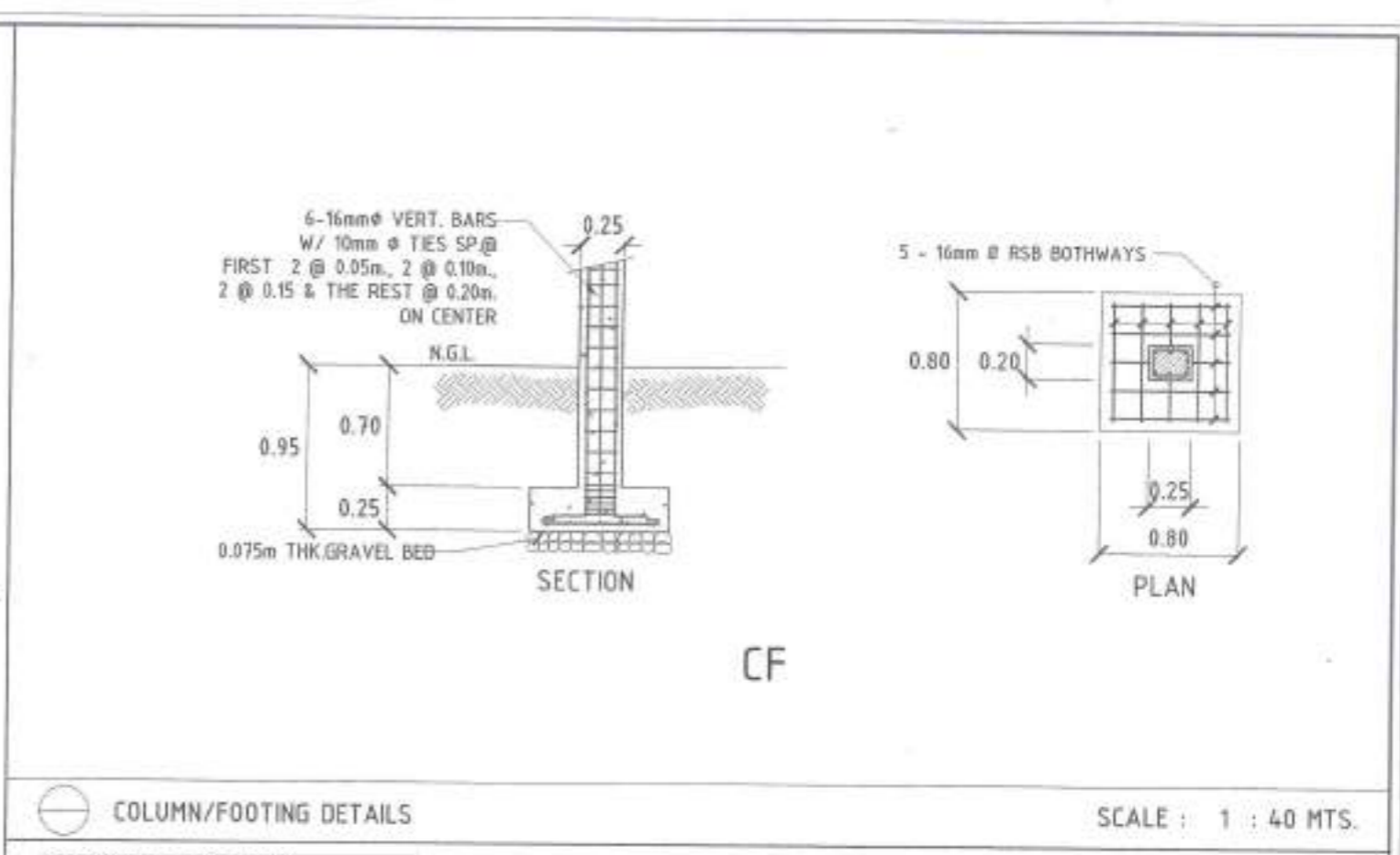
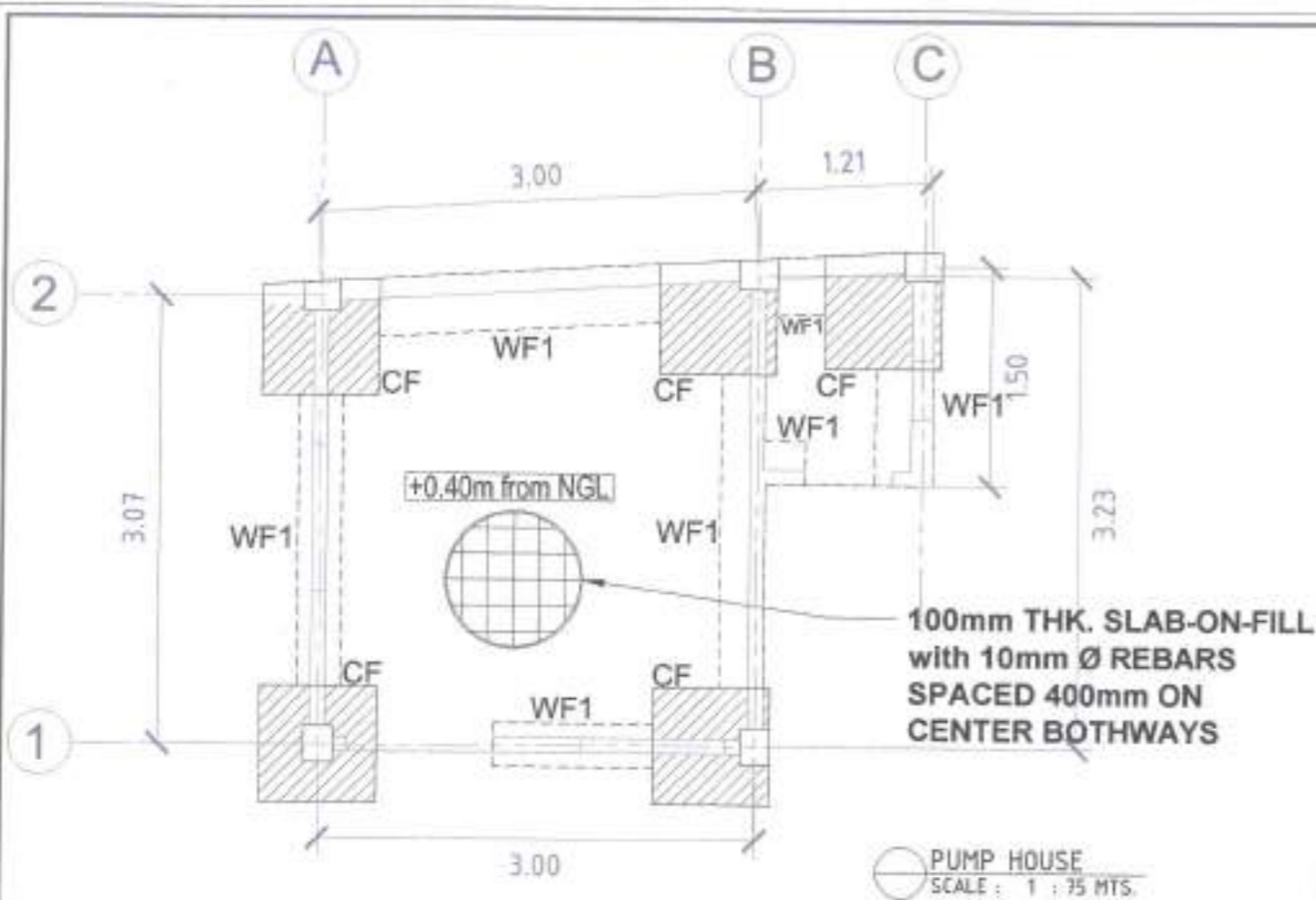
TYPE	AWNING TYPE WINDOW
QTY.	2 SETS
LOCATION	PUMP HOUSE

TYPE	PANEL TYPE DOOR
QTY.	1 SET
LOCATION	PUMP ROOM

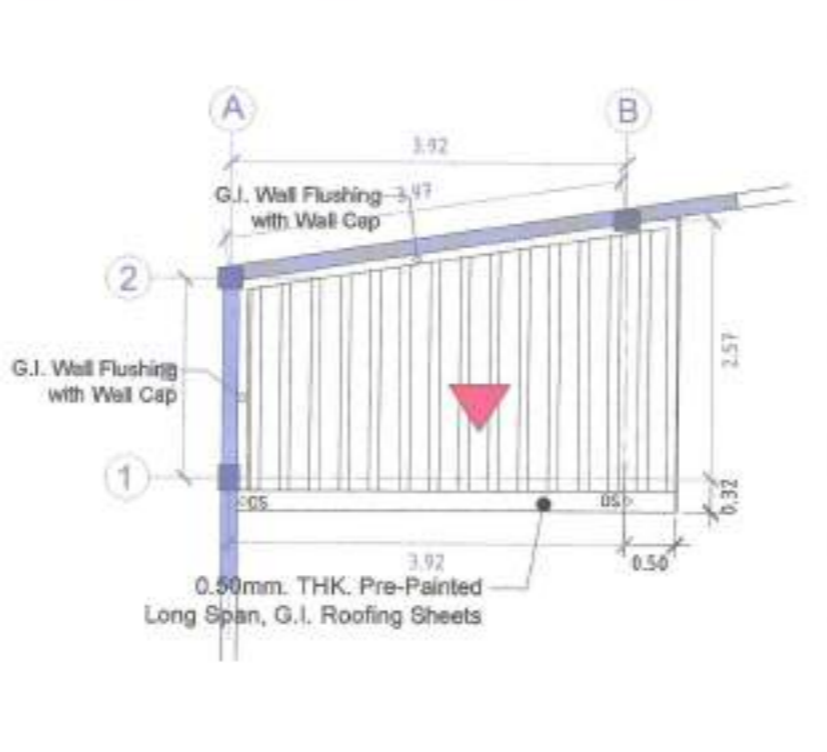
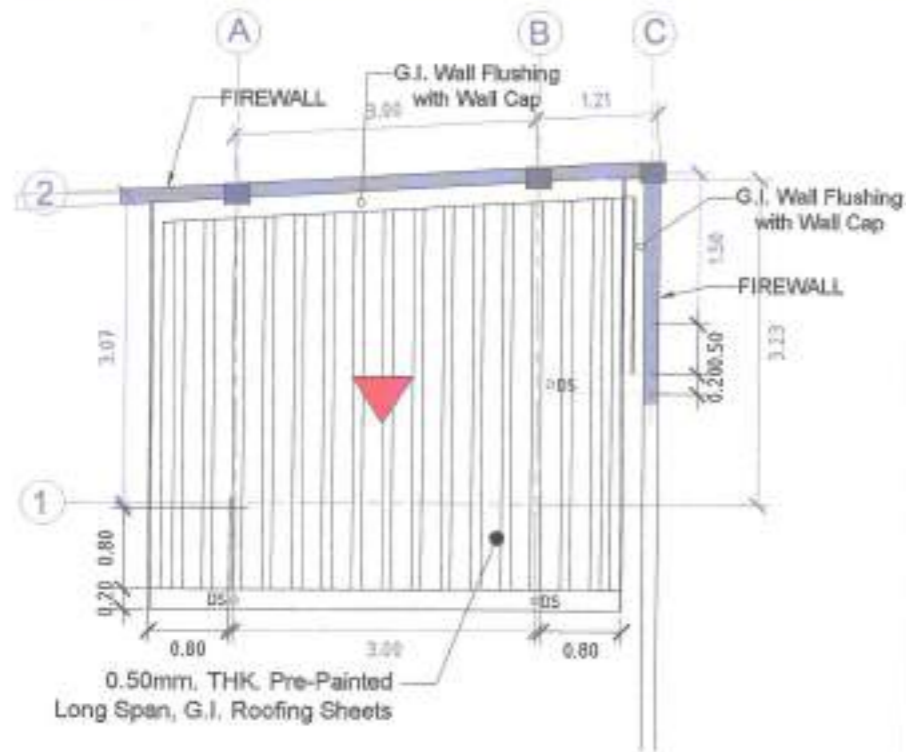
TYPE	FLUSH DOOR
QTY.	1 SET
LOCATION	TOILET

⊕ SCHEDULE OF DOORS & WINDOWS

SCALE 1 : 40 MTS

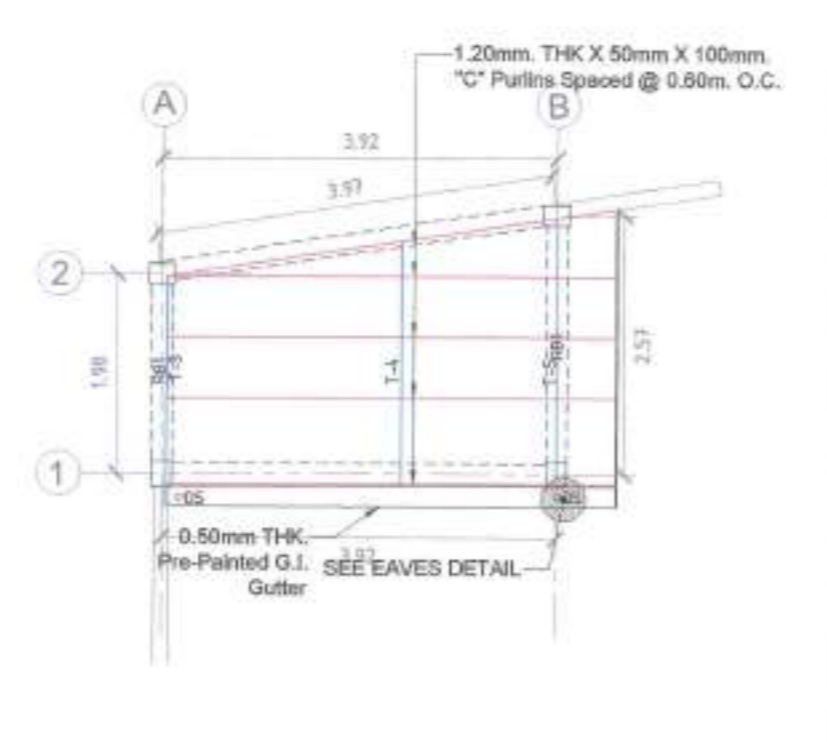
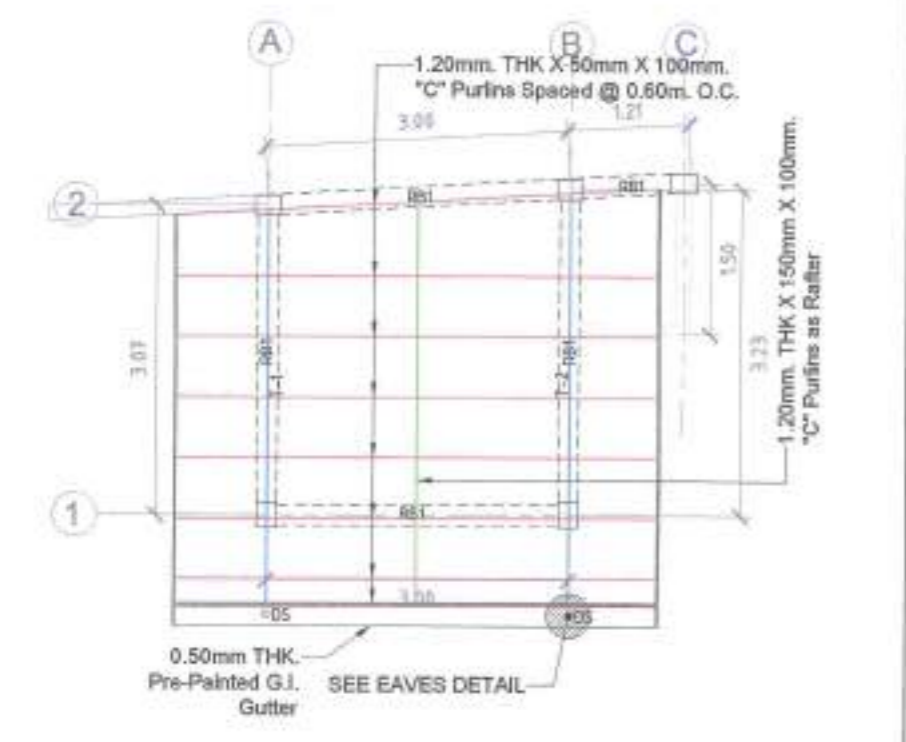


<p>Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 40 J. Miranda Avenue, Naga City</p>	PREPARED BY: <i>[Signature]</i> SAMUEL A. AMORES QC - Dep't Manager A, EED	CHECKED BY: <i>[Signature]</i> SONJUN D. PILLARES QC - Dep't Manager A, EED	RECOMMENDING APPROVAL: <i>[Signature]</i> ARTURO M. MARCO QC - Dep't Manager A, PO	APPROVED: <i>[Signature]</i> ROQUE S. FRANCISCO Assistant General Manager, O&TS	APPROVED: <i>[Signature]</i> FLORENCIO T. MONGOSO JR., CSEE General Manager A	PROJECT TITLE/LOCATION: PROPOSED STA. LUCIA II PUMPING STATION Zone 5, Barangay Sta. Lucia, Magarao, Camarines Sur	SHEET CONTENTS: FOUNDATION PLAN COLUMN/FOOTING DETAILS WALL FOOTING DETAILS	SHEET NO.: 6 / 18 Date: 04-24
	<p>EEDP17, REV. 00, AUGUST 5, 2019</p>							



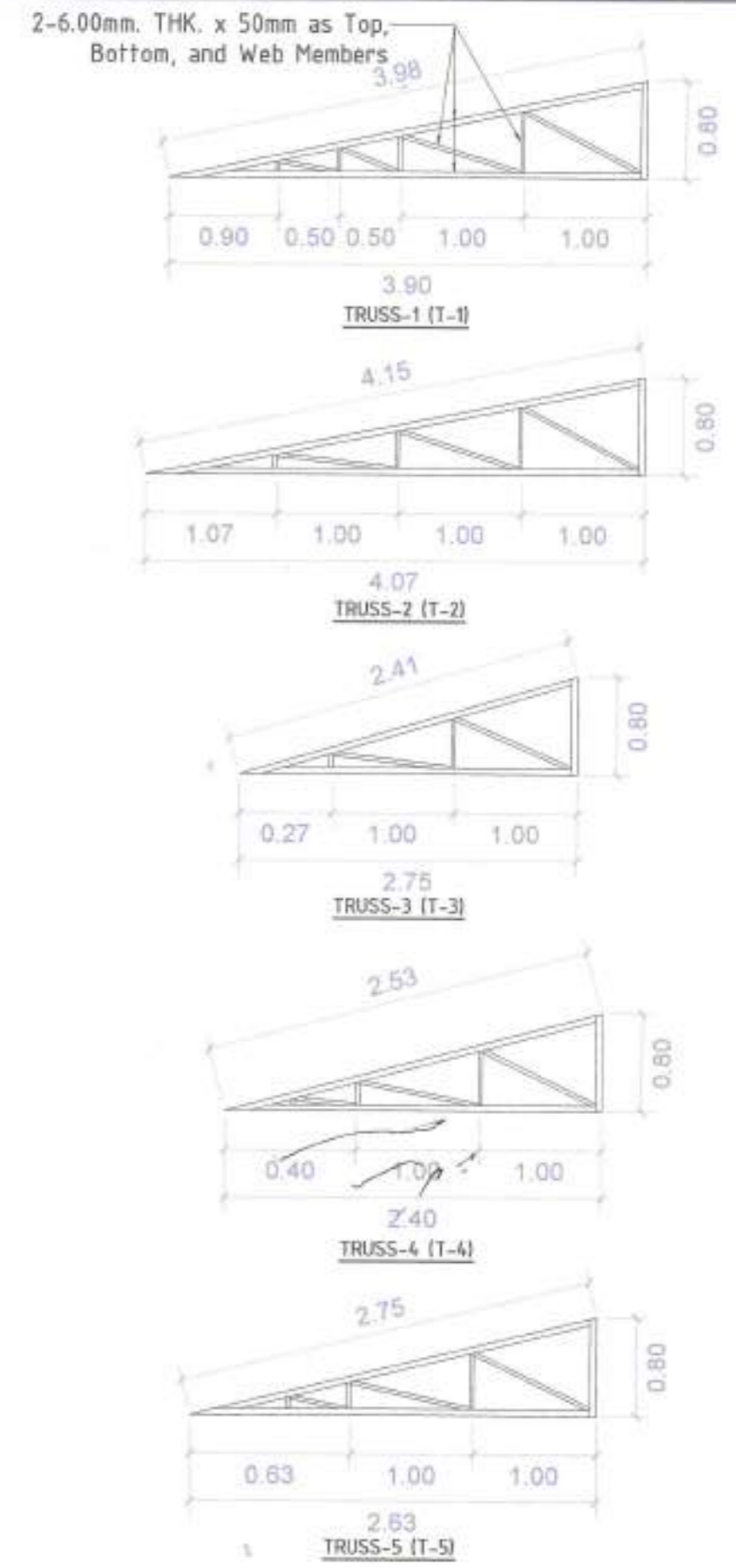
ROOF PLAN (PUMP HOUSE) SCALE : 1 : 50 MTS.

ROOF PLAN (GENSET HOUSE) SCALE : 1 : 50 MTS.



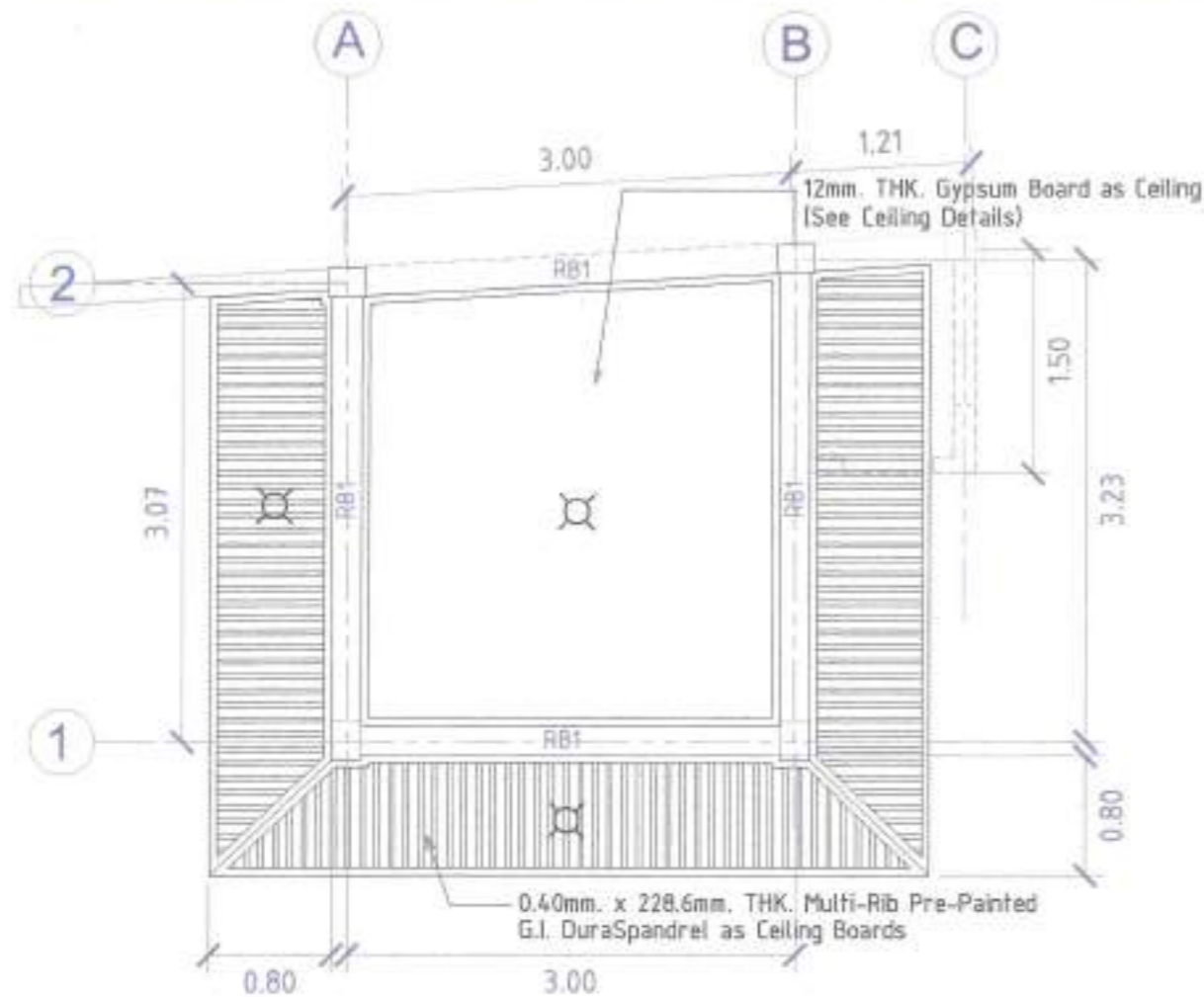
ROOF FRAMING PLAN (PUMP HOUSE) SCALE : 1 : 50 MTS.

ROOF FRAMING PLAN (GENSET HOUSE) SCALE : 1 : 50 MTS.

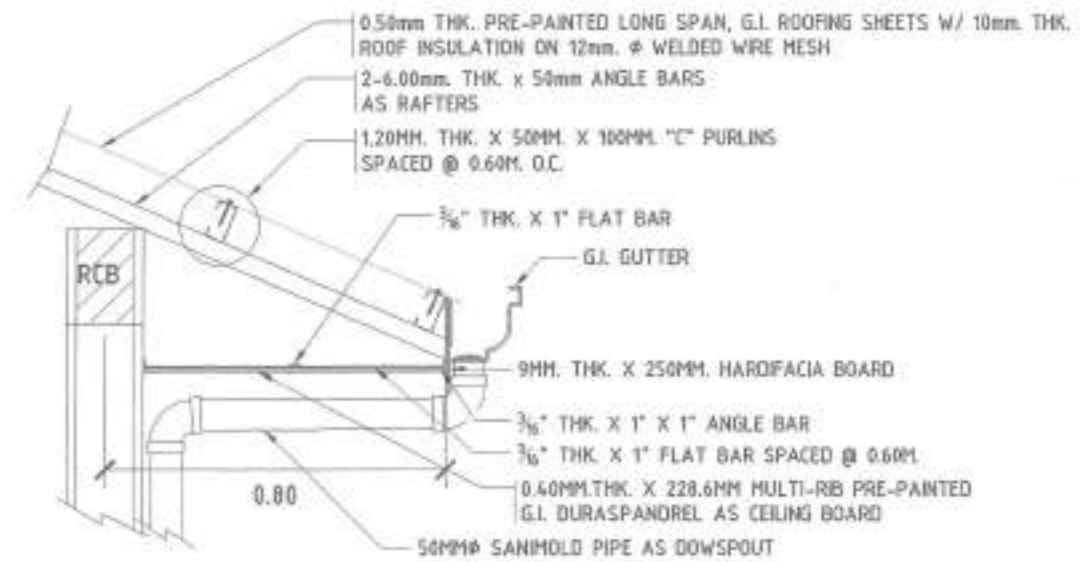


TRUSSES DETAILS N T S

<p>Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 40 J. Miranda Avenue, Naga City</p>	PREPARED BY: SAMUEL A. AMORES Chief Engr., PDCO	CHECKED BY: SONJUN D. MILLARES OK - Dep't Manager A, EED	 ARTURO M. MARCO OK - Dep't Manager A, PD	RECOMMENDING APPROVAL: ROQUE S. FRANCISCO Assistant General Manager, O&TS	APPROVED: FLORENCIO T. MONGOSO JR., CSEE General Manager A	PROJECT TITLE/LOCATION: PROPOSED STA. LUCIA II PUMPING STATION Zone 5, Barangay Sta. Lucia, Magarao, Camarines Sur	SHEET CONTENTS: ROOF PLAN ROOF FRAMING PLAN TRUSSES DETAIL	SHEET NO.: 7 / 18 Date: 04-24
	METROPOLITAN NAGA WATER DISTRICT							



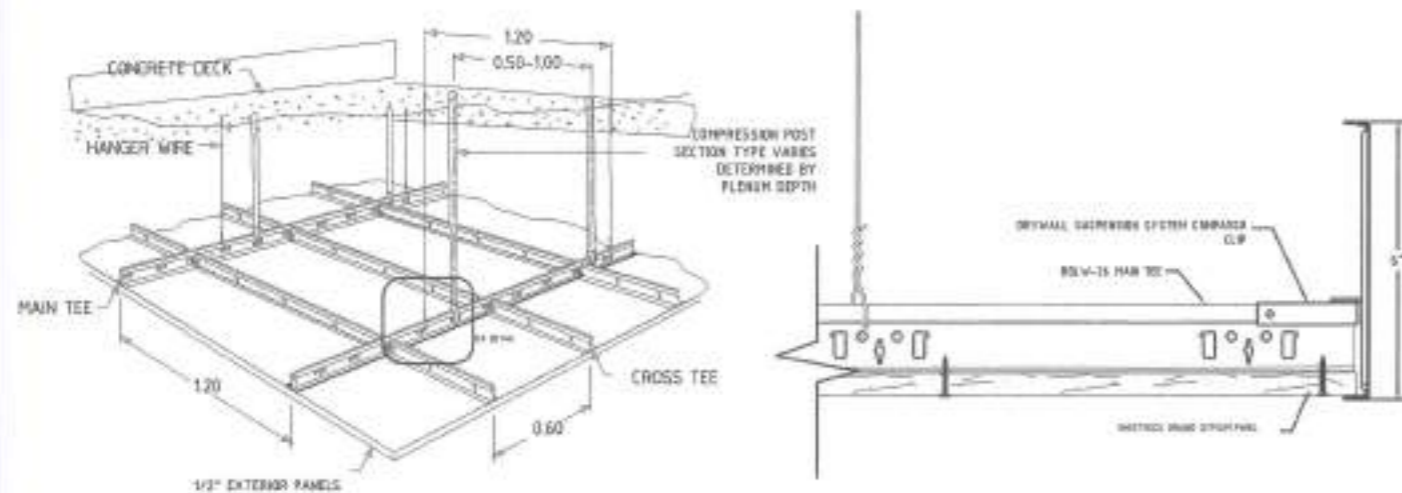
CEILING PLAN (PUMP HOUSE) SCALE 1:50 MTS



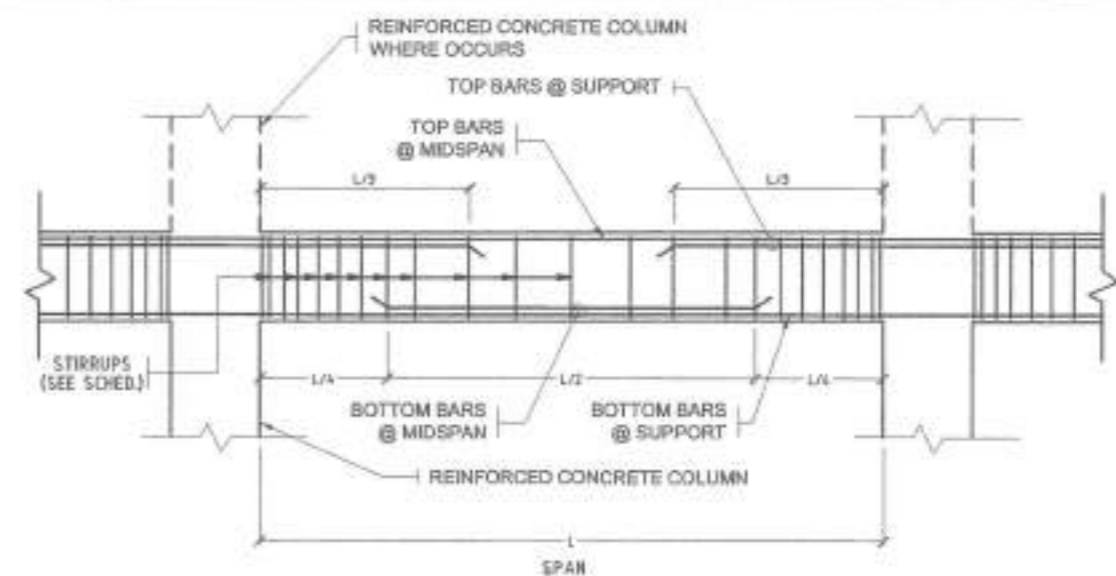
EAVES DETAILS SCALE: 1 : 20 MTS.

MARK	SIZE (mm)	@ SUPPORTS	@ MID-SPAN
		10mmØ STIRRUPS SPACED AS FOLLOWS: 2 @ 0.05M, 2 @ 0.10M, 2 @ 0.15M. & THE REST @ 0.20M.O.C.	
RB1	200 x 250	 4-12mmØ RSB 2-12mmØ RSB	 2-12mmØ RSB 4-12mmØ RSB

SCHEDULE OF BEAM NOT TO SCALE.

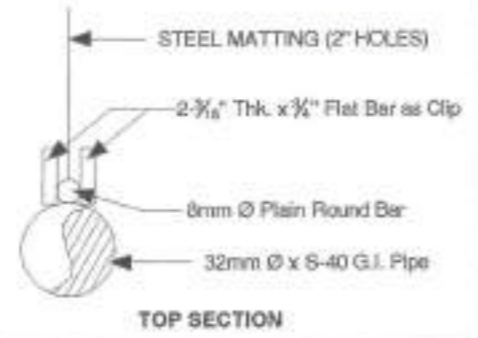


CEILING DETAILS NOT TO SCALE.

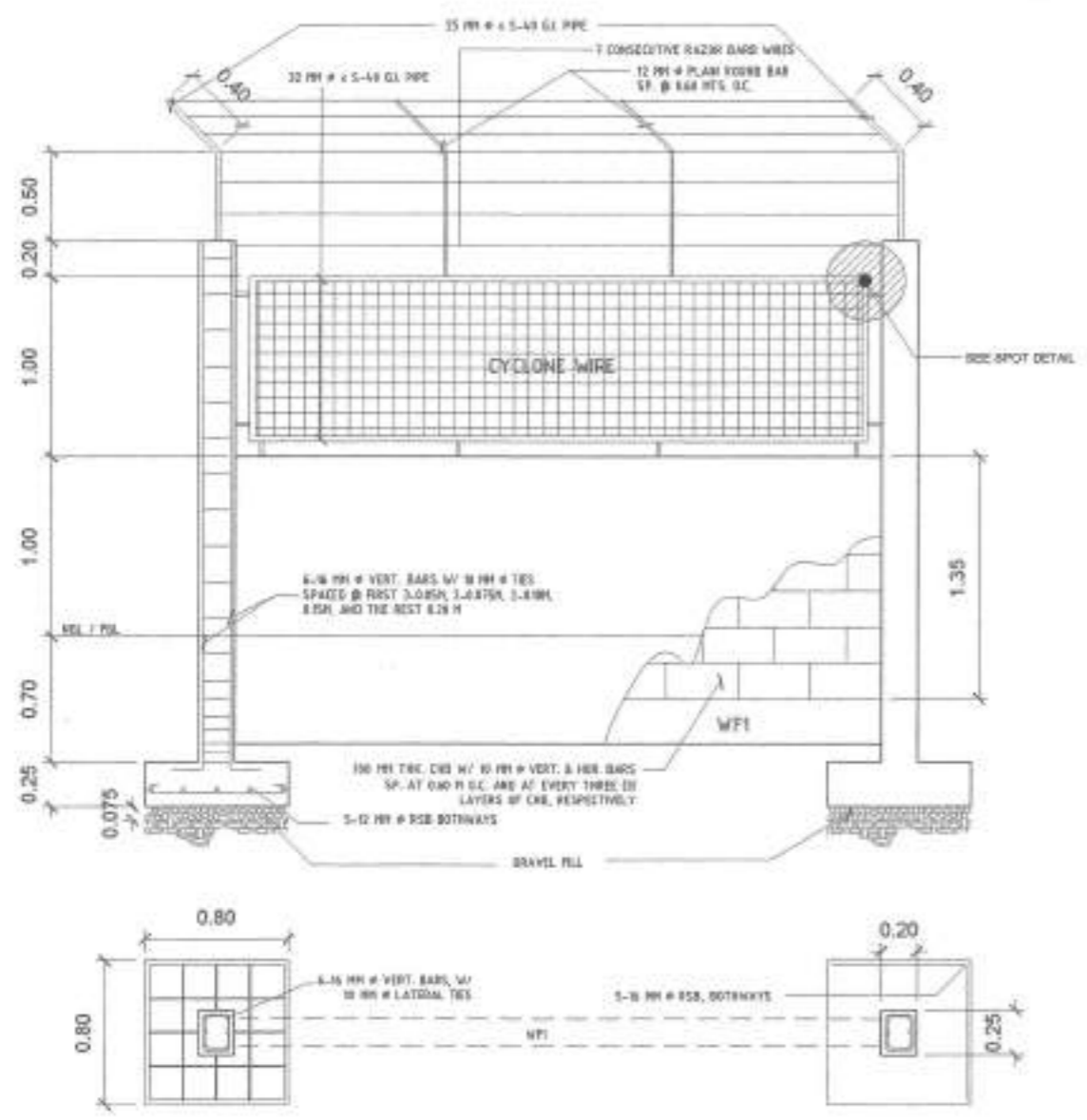


TYPICAL BEAM DETAIL

 Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 40 J. Miranda Avenue, Naga City	PREPARED BY: SAMUEL A. AMORES <small>Off. Engr., POCD</small>	CHECKED BY: SON JUN O. MILLARES <small>Off. - Dep't Manager A, EEO</small>	RECOMMENDING APPROVAL: ARTURO M. MARCO <small>Off. - Dep't Manager A, PD</small>	APPROVED: ROQUE S. FRANCISCO <small>Assistant General Manager, O&TS</small>	APPROVED: FLORENCIO Y. MONGOSO JR., CSEE <small>General Manager A</small>	PROJECT TITLE/LOCATION: PROPOSED STA. LUCIA II PUMPING STATION <small>Zone 5, Barangay Sta. Lucia, Magarao, Comarines Sur</small>	SHEET CONTENTS: EAVES DETAILS SCHEDULE OF BEAM CEILING PLAN (PUMP HOUSE) CEILING DETAILS	SHEET NO.: 8 / 18 Date: 04-24
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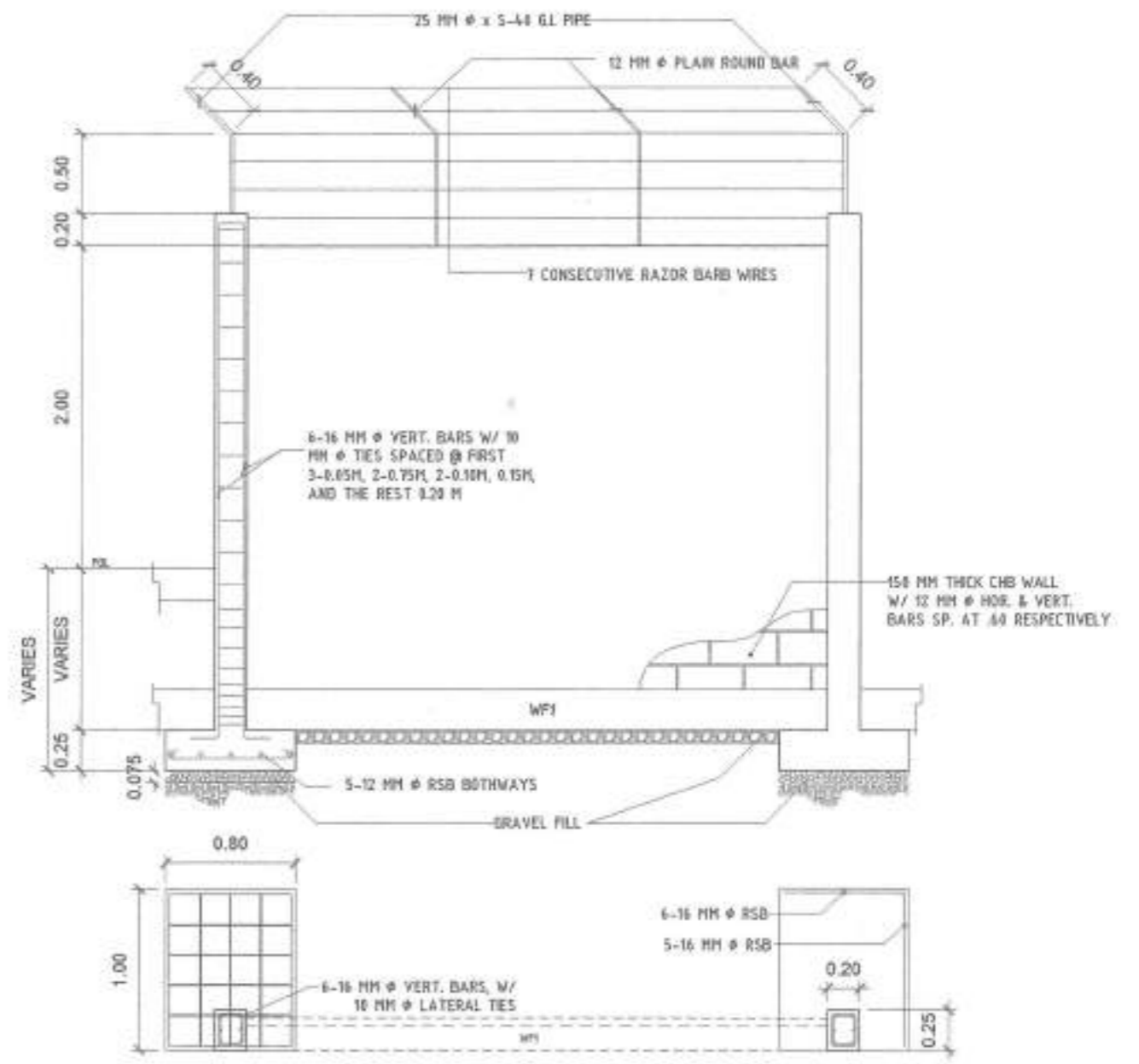


SPOT DETAIL



FRONT FENCE DETAILED SECTION

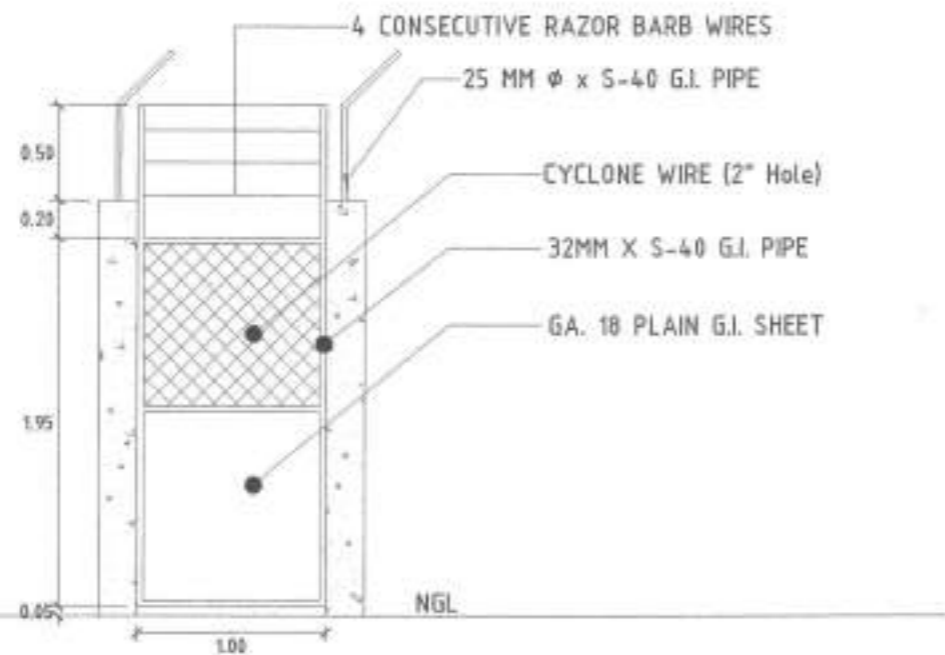
SCALE : 1 : 40 MTS.



REAR AND SIDE FENCE DETAILED SECTION

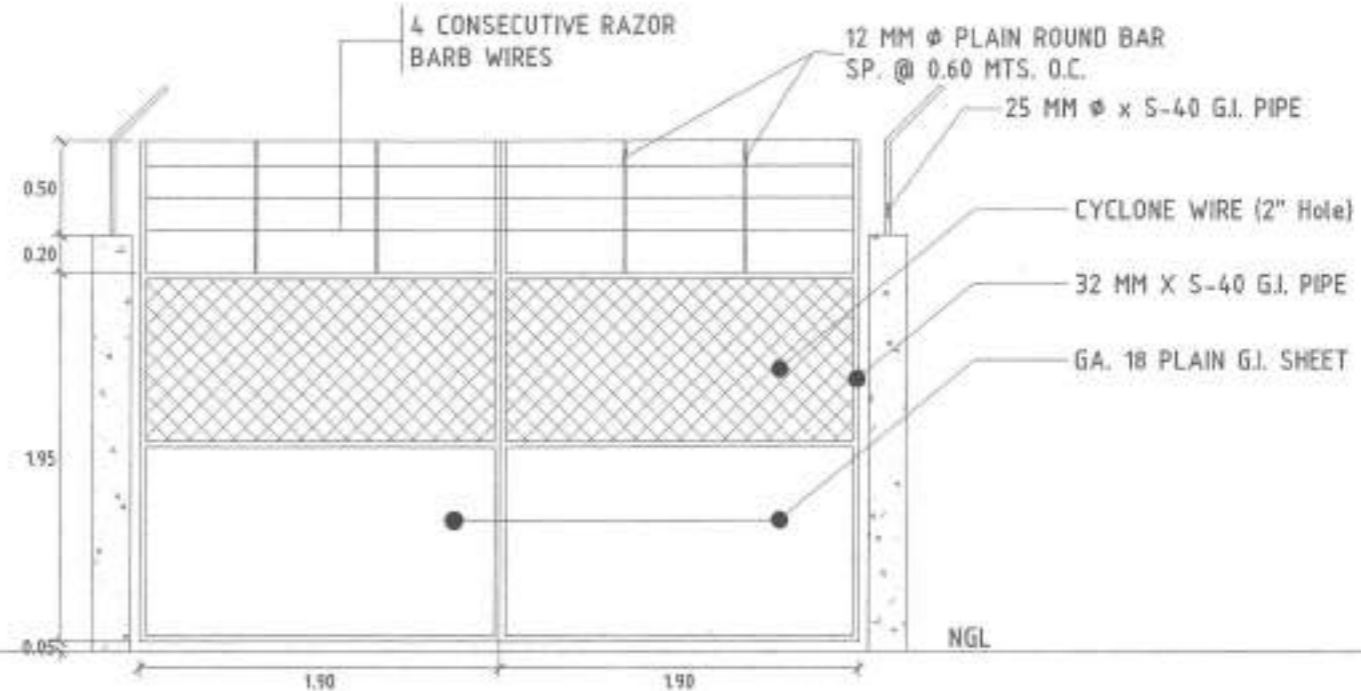
SCALE : 1 : 40 MTS.

<p>Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 40 J. Miranda Avenue, Naga City</p>	<p>PREPARED BY: <i>Samuel A. Amores</i> SAMUEL A. AMORES DCE - OMA, PDCD</p>	<p>CHECKED BY: <i>Sonjun O. Millares</i> SONJUN O. MILLARES DCE - Dep't Manager A, EED</p>	<p>RECOMMENDING APPROVAL: <i>Arturo M. Marco</i> ARTURO M. MARCO DCE - Dep't Manager A, PD</p>	<p>APPROVED: <i>Florencio Y. Mongoso Jr.</i> FLORENCIO Y. MONGOSO JR., CSEE General Manager A</p>	<p>PROJECT TITLE/LOCATION PROPOSED STA. LUCIA II PUMPING STATION Zone 5, Barangay Sta. Lucia, Nagarao, Camarines Sur</p>	<p>SHEET CONTENTS: FENCE DETAILED SECTION</p>	<p>SHEET NO. 9 / 18 Date: 06-24</p>
	<p>PROJECT TITLE/LOCATION: PROPOSED STA. LUCIA II PUMPING STATION</p>						



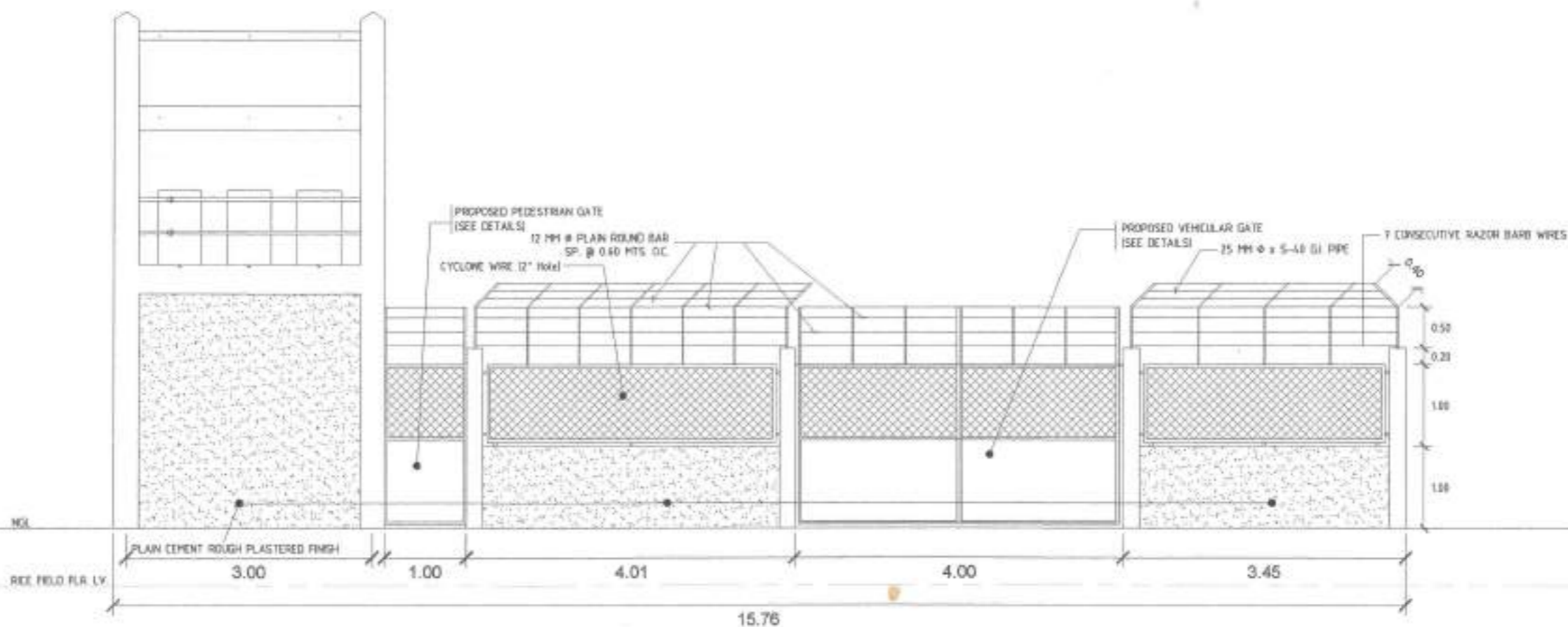
PEDESTRIAN GATE DETAILS

SCALE : 1 : 40 MTS.










VEHICULAR GATE DETAILS

SCALE : 1 : 40 MTS.

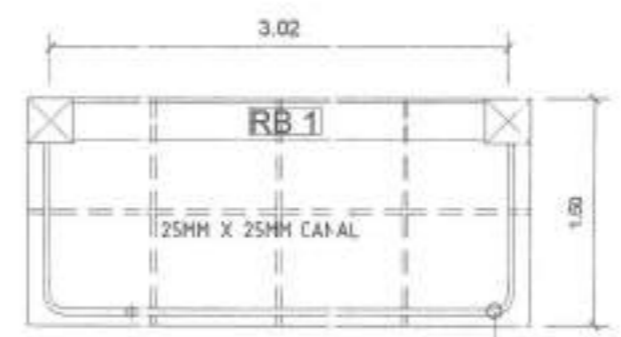
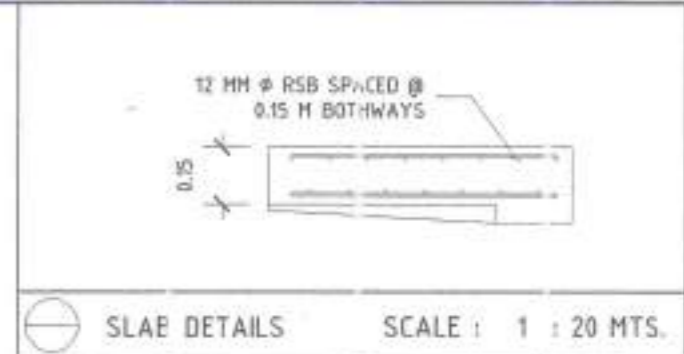


FRONT FENCE ELEVATION

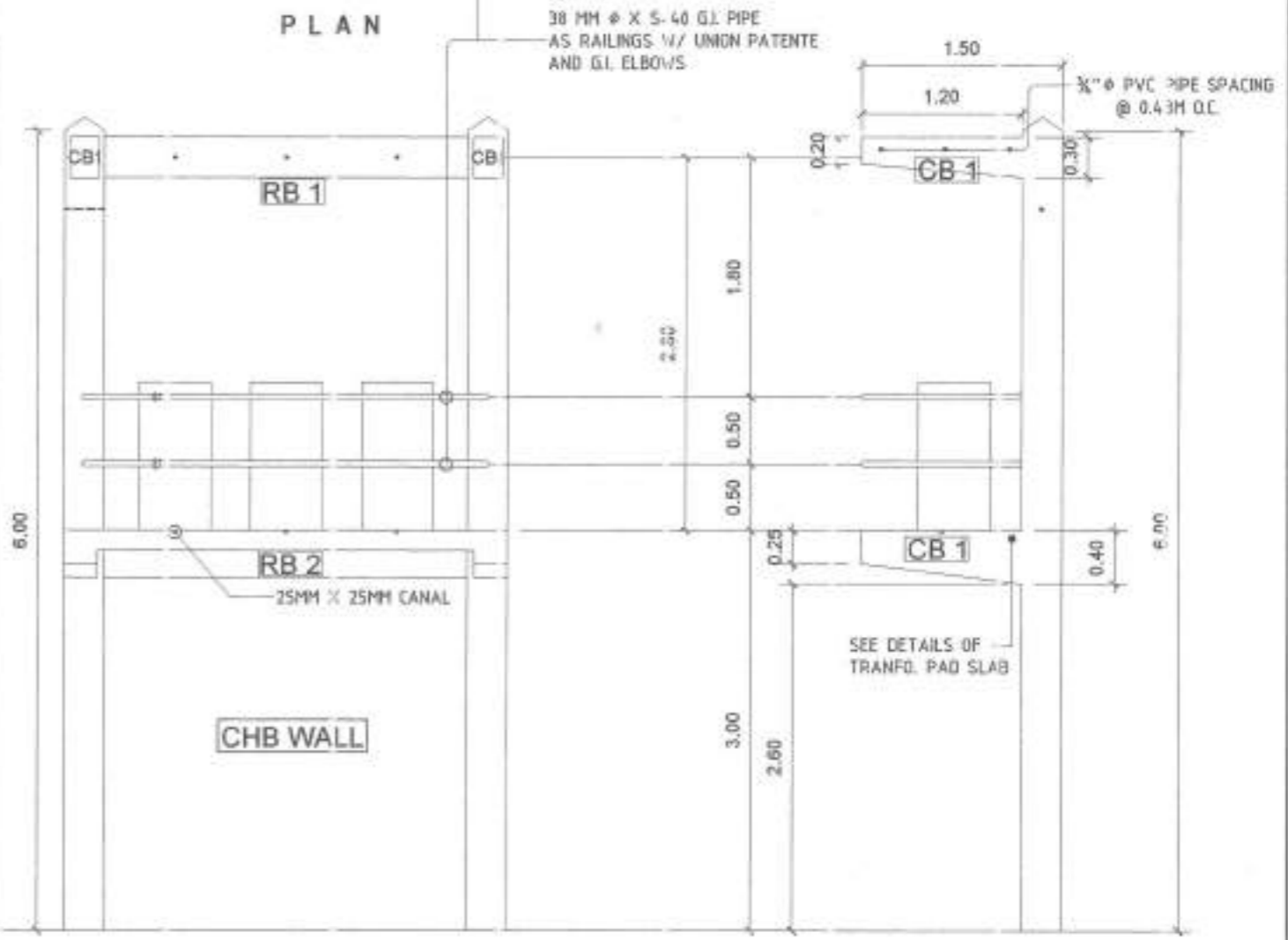
Not to Scale

	SIZE	REINFORCEMENTS	
		AT SUPPORT	AT MIDSPAN
CB 1	0.25 x 0.30	 6 - 16 MM ϕ RSB 2 - 16 MM ϕ RSB	 1 - 16 MM ϕ RSB 1 - 16 MM ϕ RSB
RB 1	0.25 x 0.30	 4 - 16 MM ϕ RSB 2 - 12 MM ϕ RSB 2 - 16 MM ϕ RSB	 1 - 16 MM ϕ RSB 1 - 12 MM ϕ RSB 1 - 16 MM ϕ RSB
RB 2	0.25 x 0.30	 4 - 16 MM ϕ RSB 2 - 16 MM ϕ RSB	 1 - 16 MM ϕ RSB 1 - 16 MM ϕ RSB
FTE	0.20 x 0.30	 3 - 16 MM ϕ RSB 3 - 16 MM ϕ RSB	 3 - 16 MM ϕ RSB 3 - 16 MM ϕ RSB

 SCHEDULE OF BEAMS SCALE : 1 : 20 MTS.




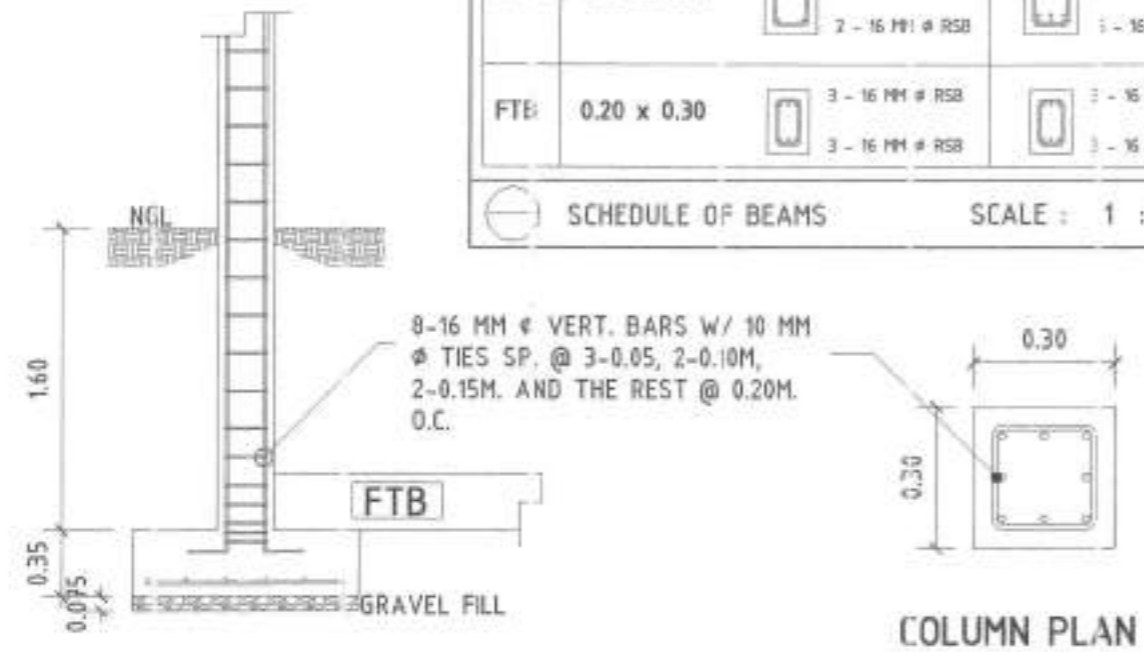
PLAN



FRONT ELEVATION

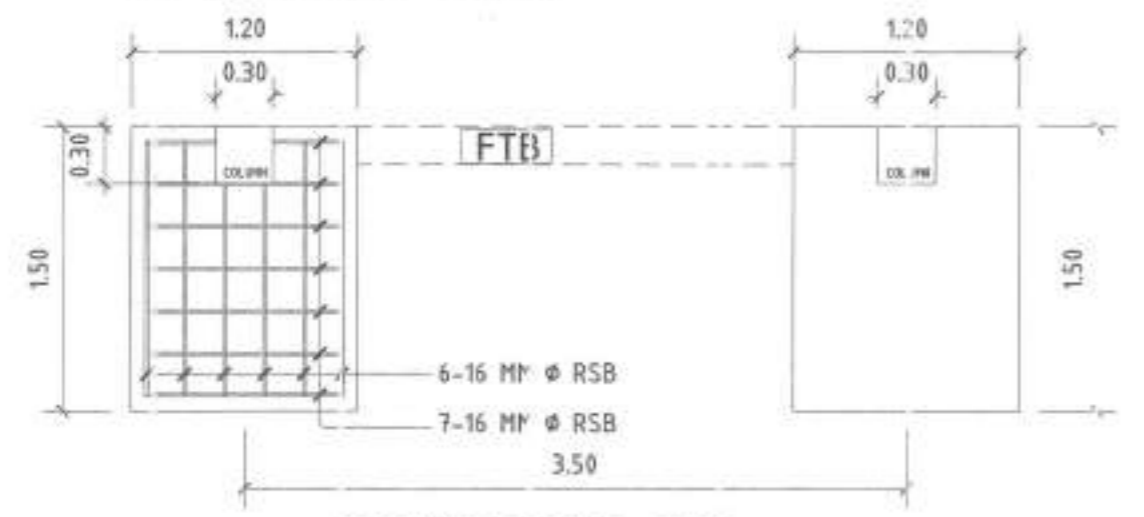
SIDE ELEVATION

 TRANSFORMER PAD ELEVATION SCALE : 1 : 50 MTS.



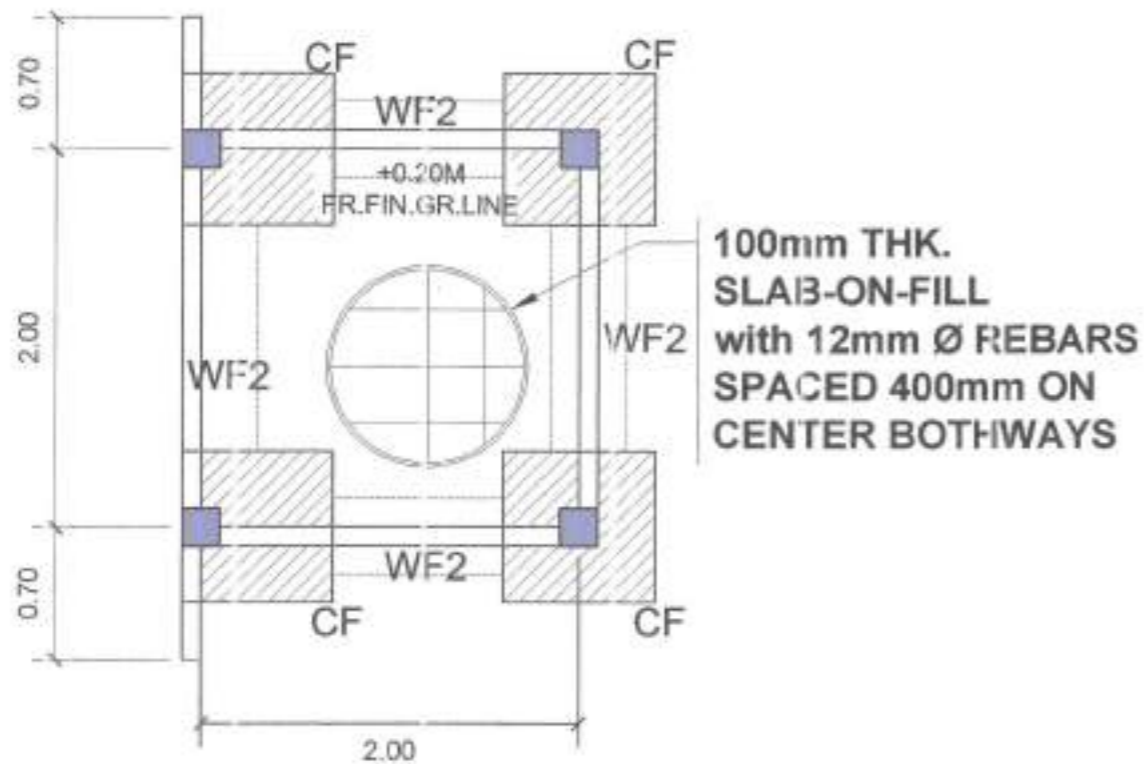
COLUMN FOOTING SECTION

COLUMN PLAN



COLUMN FOOTING PLAN

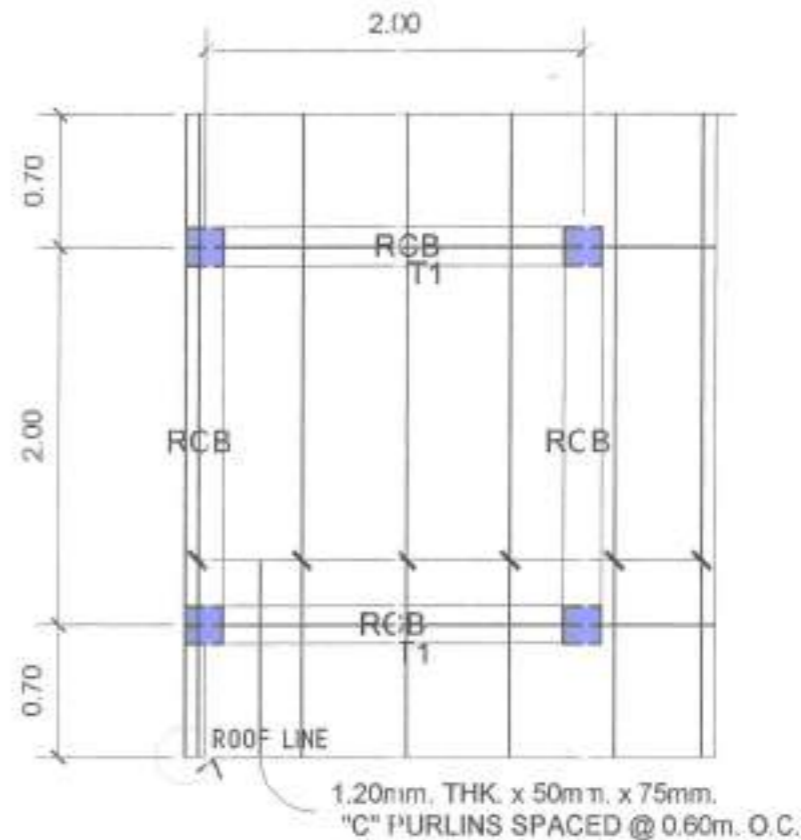
 TRANSFORMER FOUNDATION DETAILS SCALE : 1 : 40 MTS.



FOUNDATION PLAN

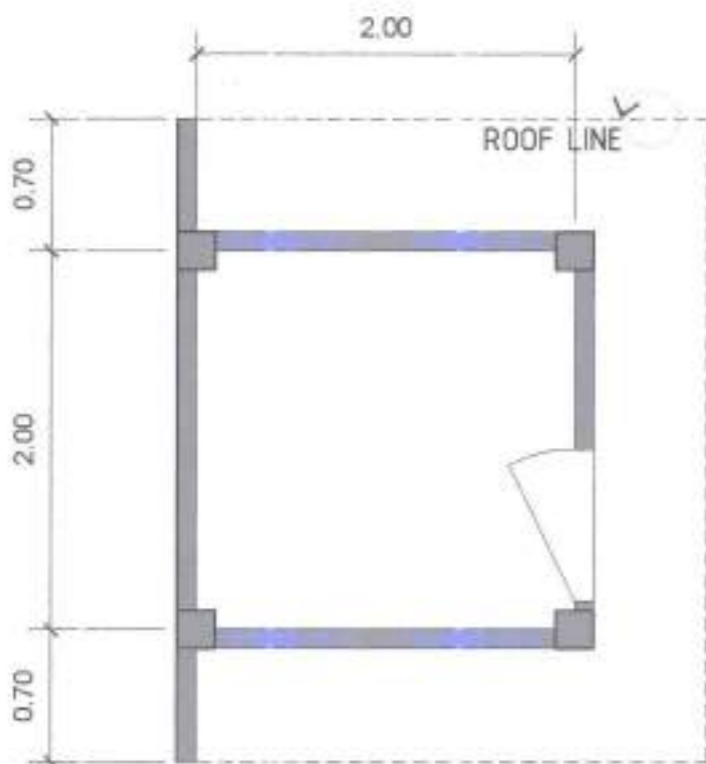
FOUNDATION PLAN

SCALE : 1 : 40 MTS.



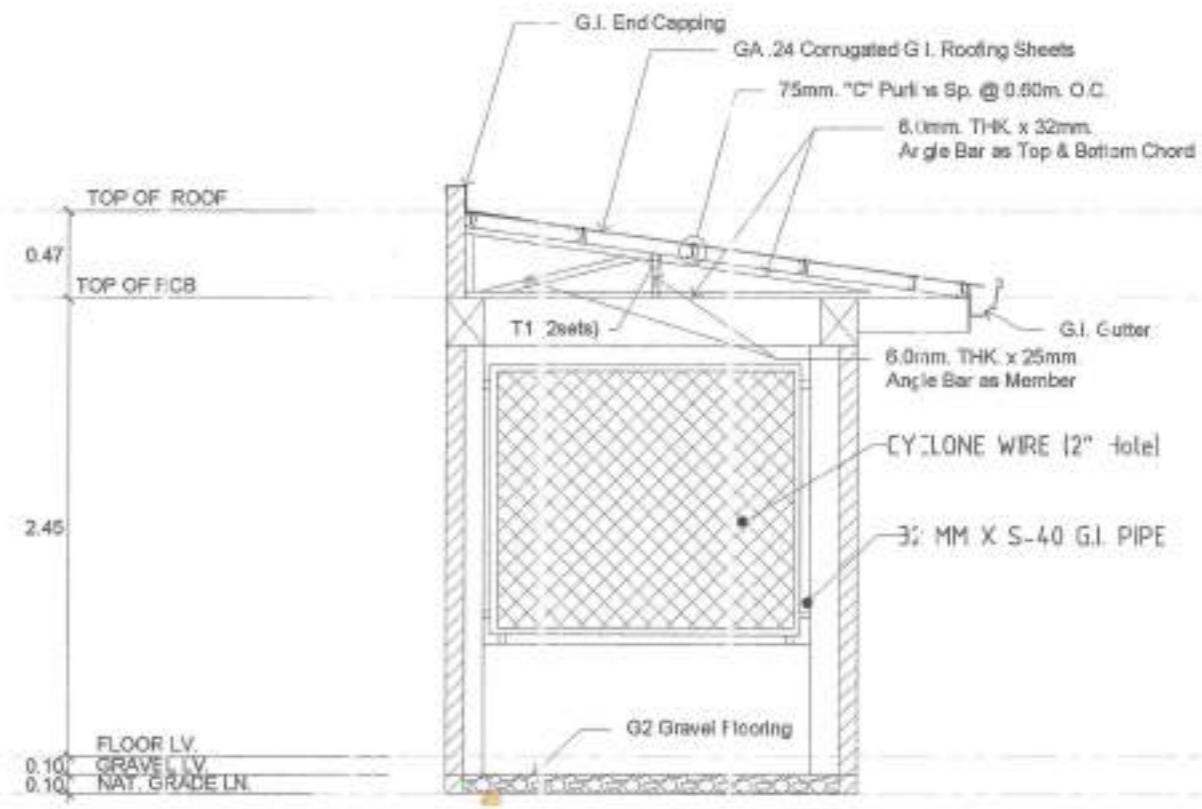
ROOF BEAM/FRAMING PLAN

SCALE : 1 : 40 MTS.



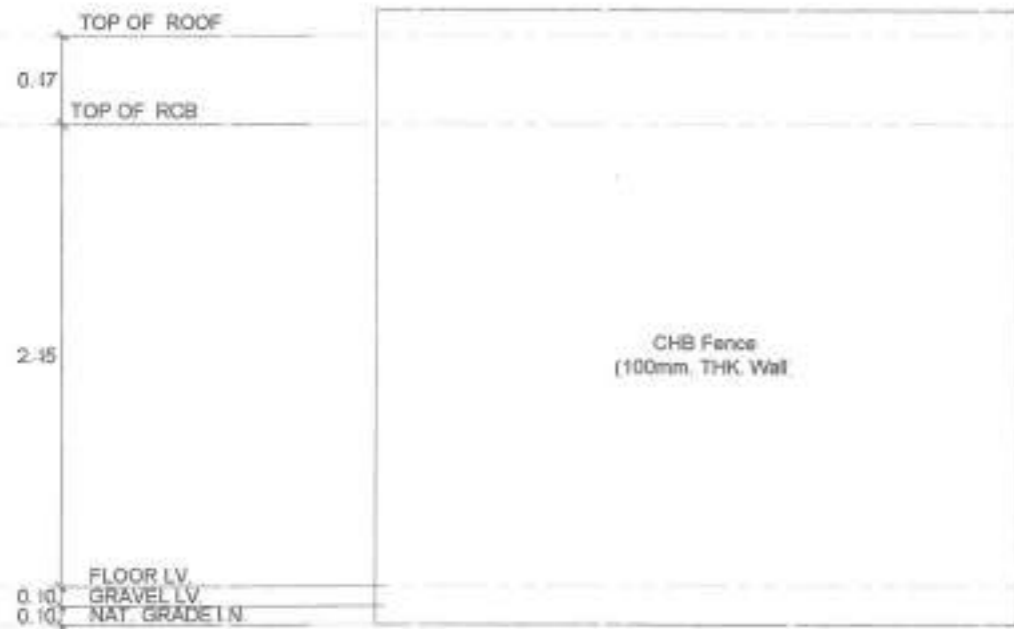
FLOOR PLAN

SCALE : 1 : 40 MTS.



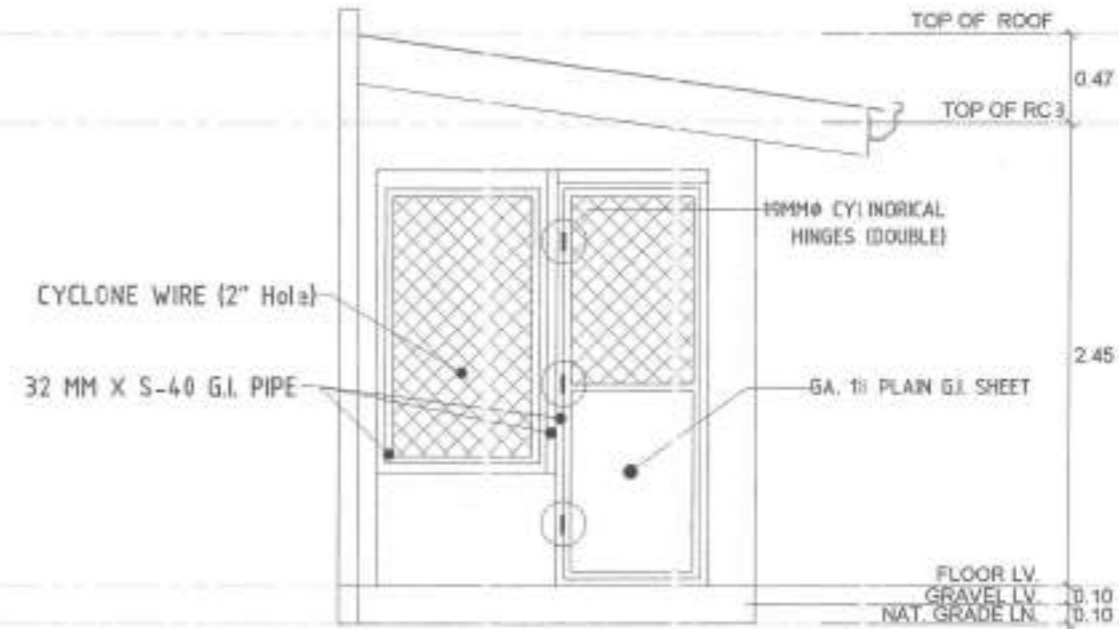
DETAILED SECTION

SCALE : 1 : 40 MTS.



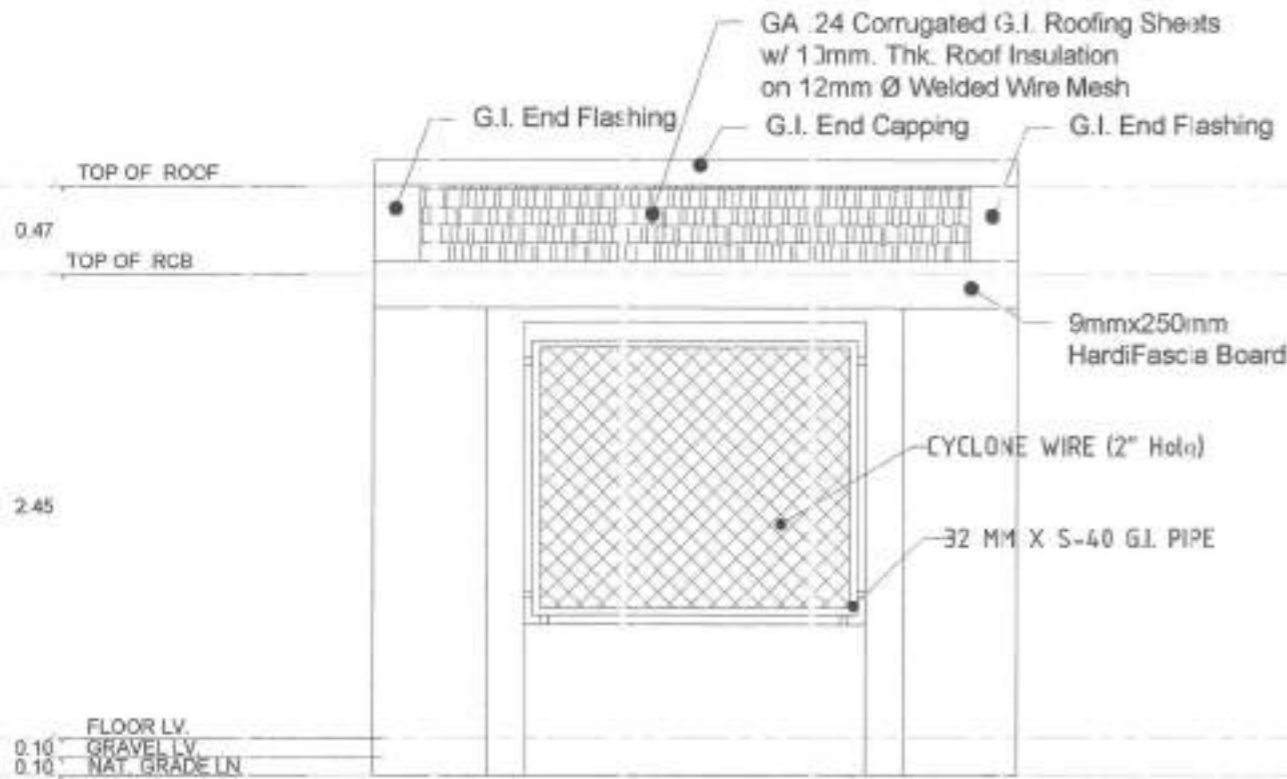
REAR ELEVATION

SCALE : 1 : 40 MTS.



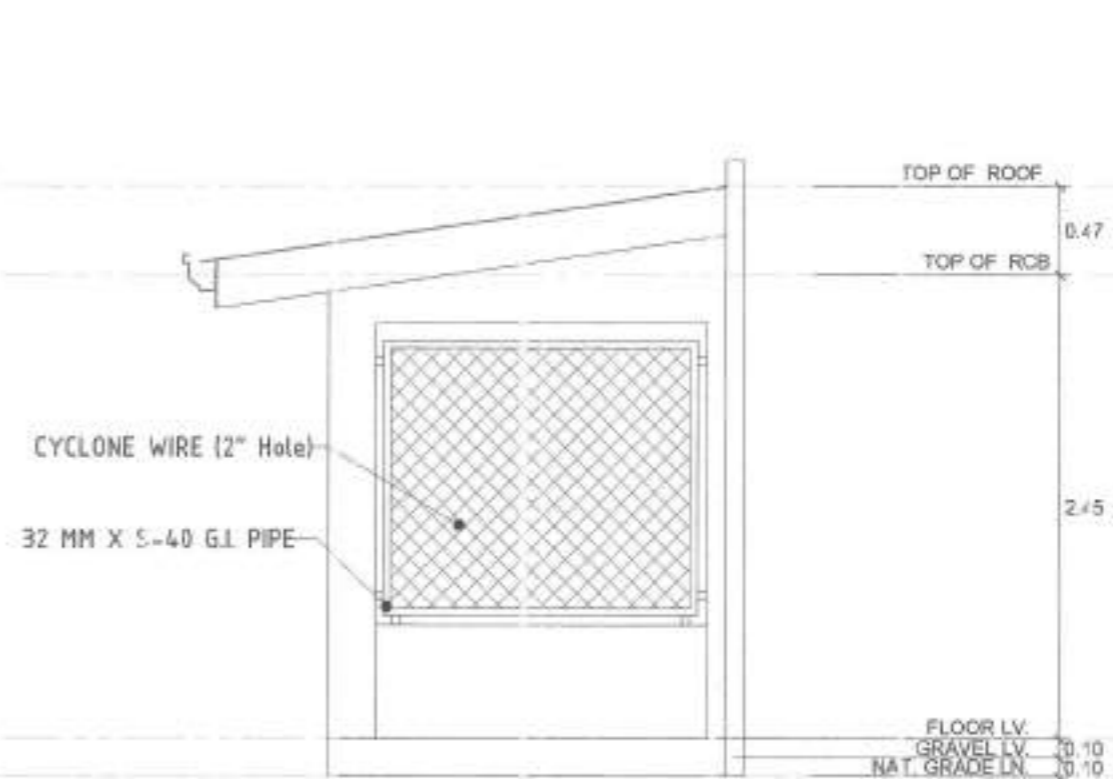
LEFT SIDE ELEVATION

SCALE : 1 : 40 MTS.



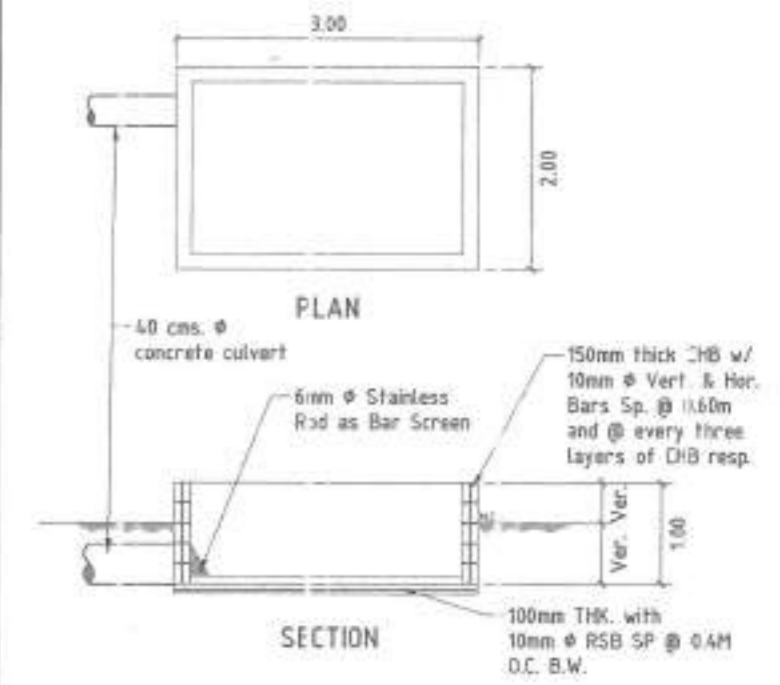
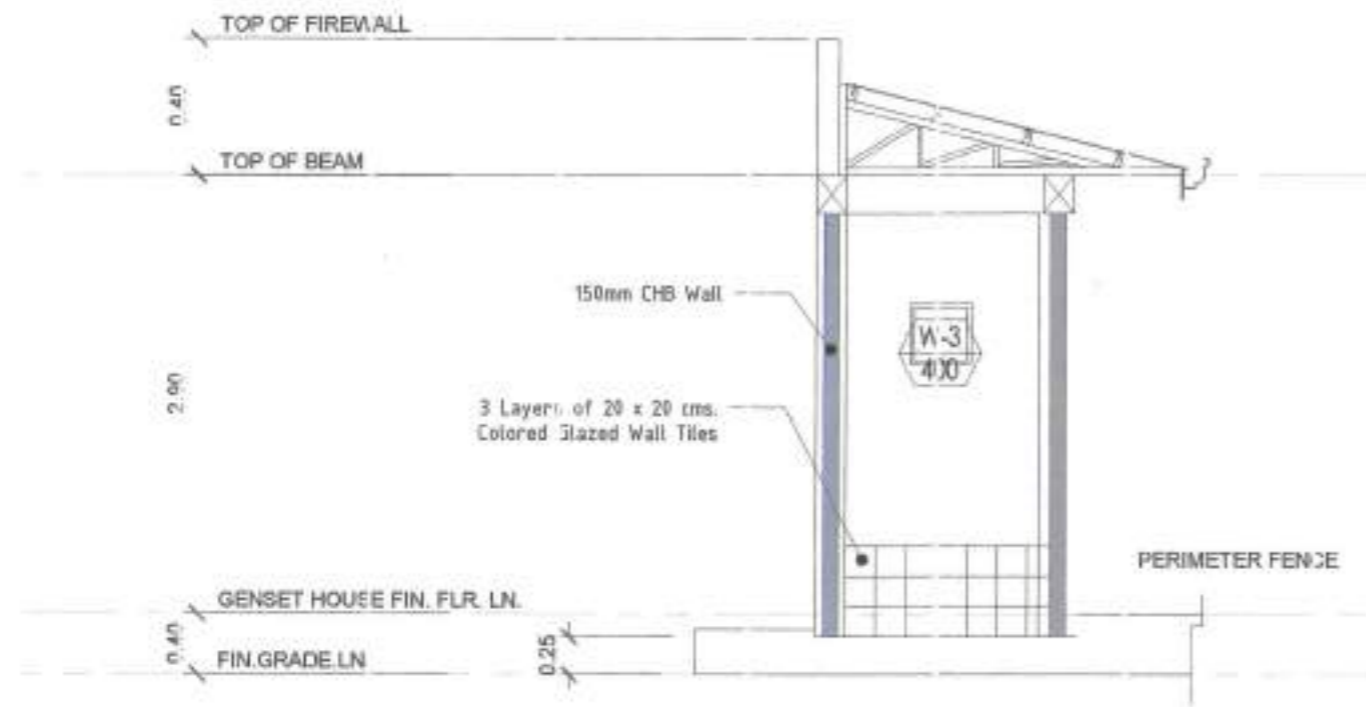
FRONT ELEVATION

SCALE : 1 : 40 MTS.



RIGHT SIDE ELEVATION

SCALE : 1 : 40 MTS.

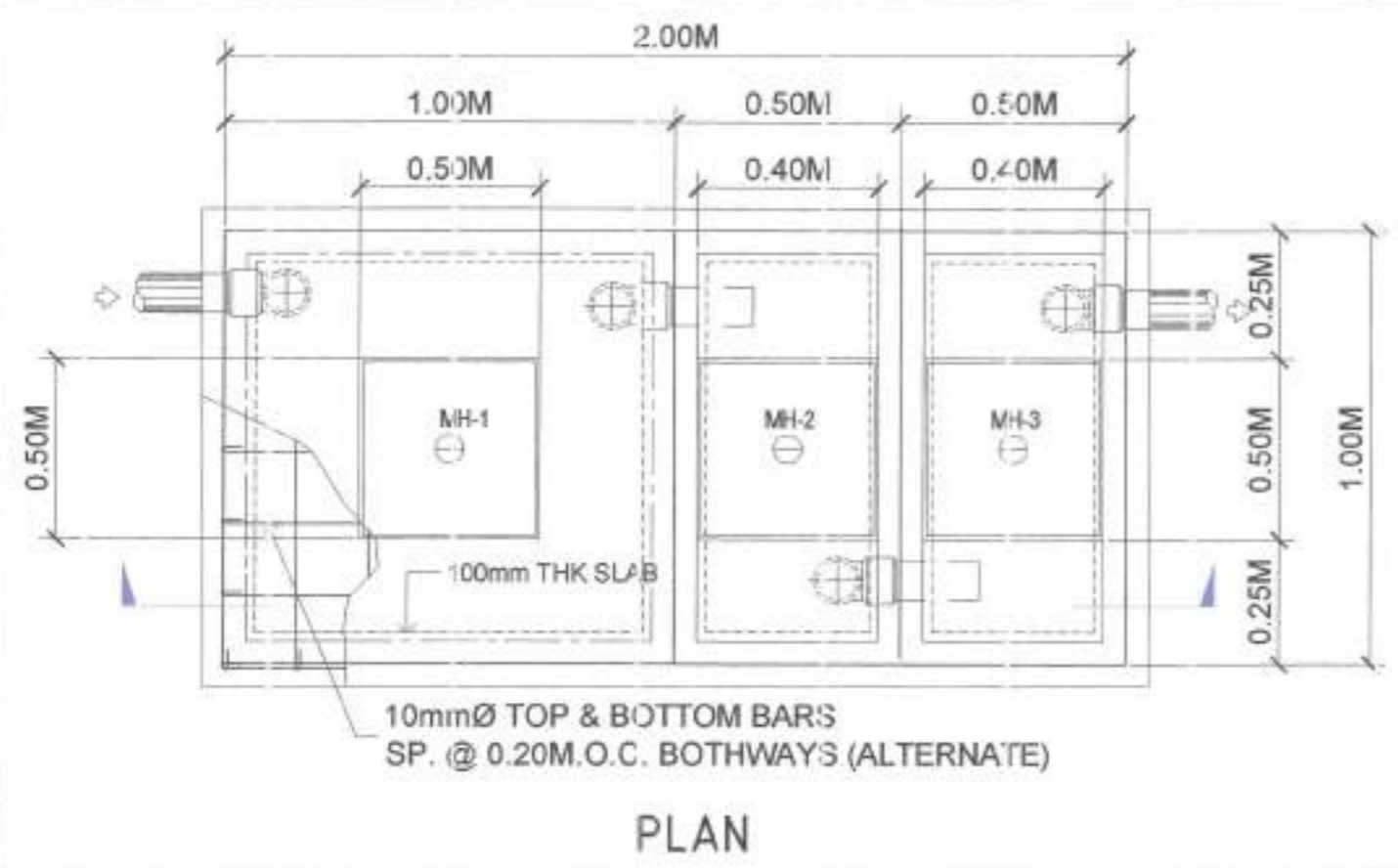


COMFORT ROOM DETAILS

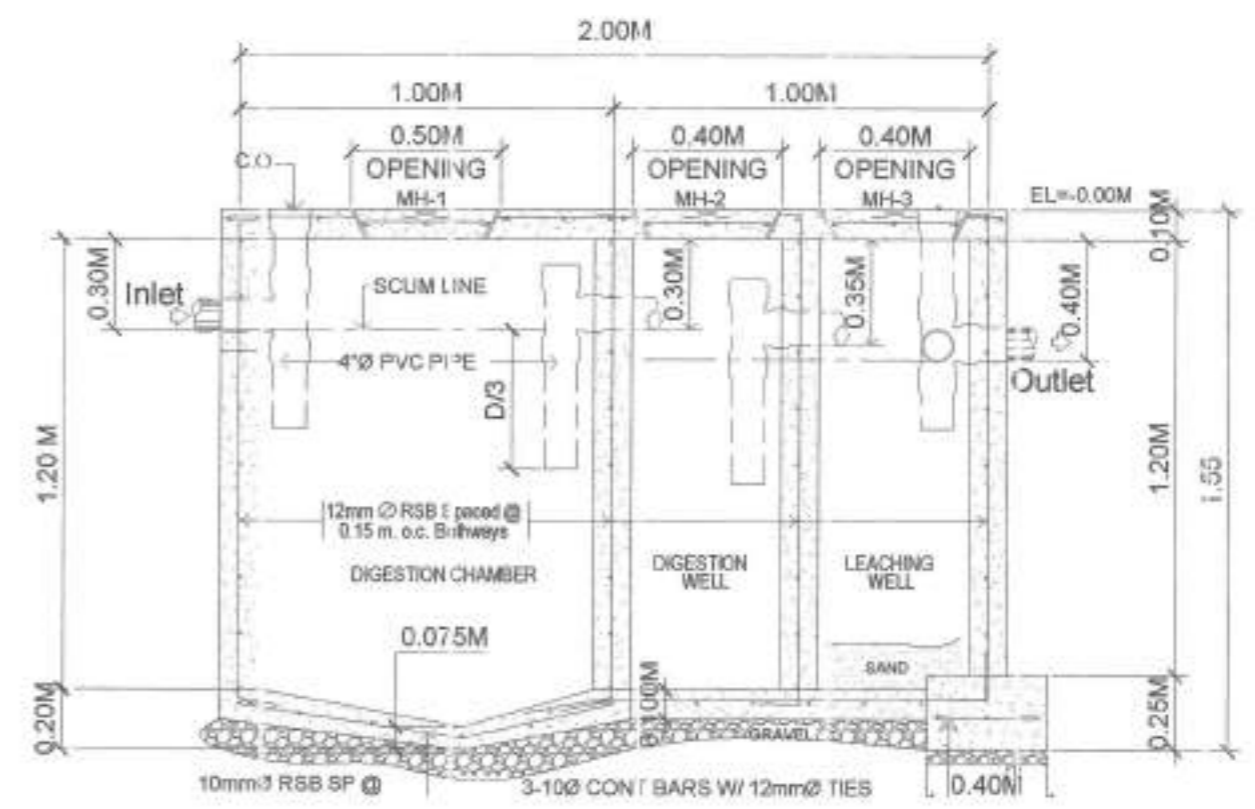
SCALE : 1 : 50 MTS.

DETAILS OF FLUSHING BOX

SCALE : 1 : 75 MTS.



PLAN



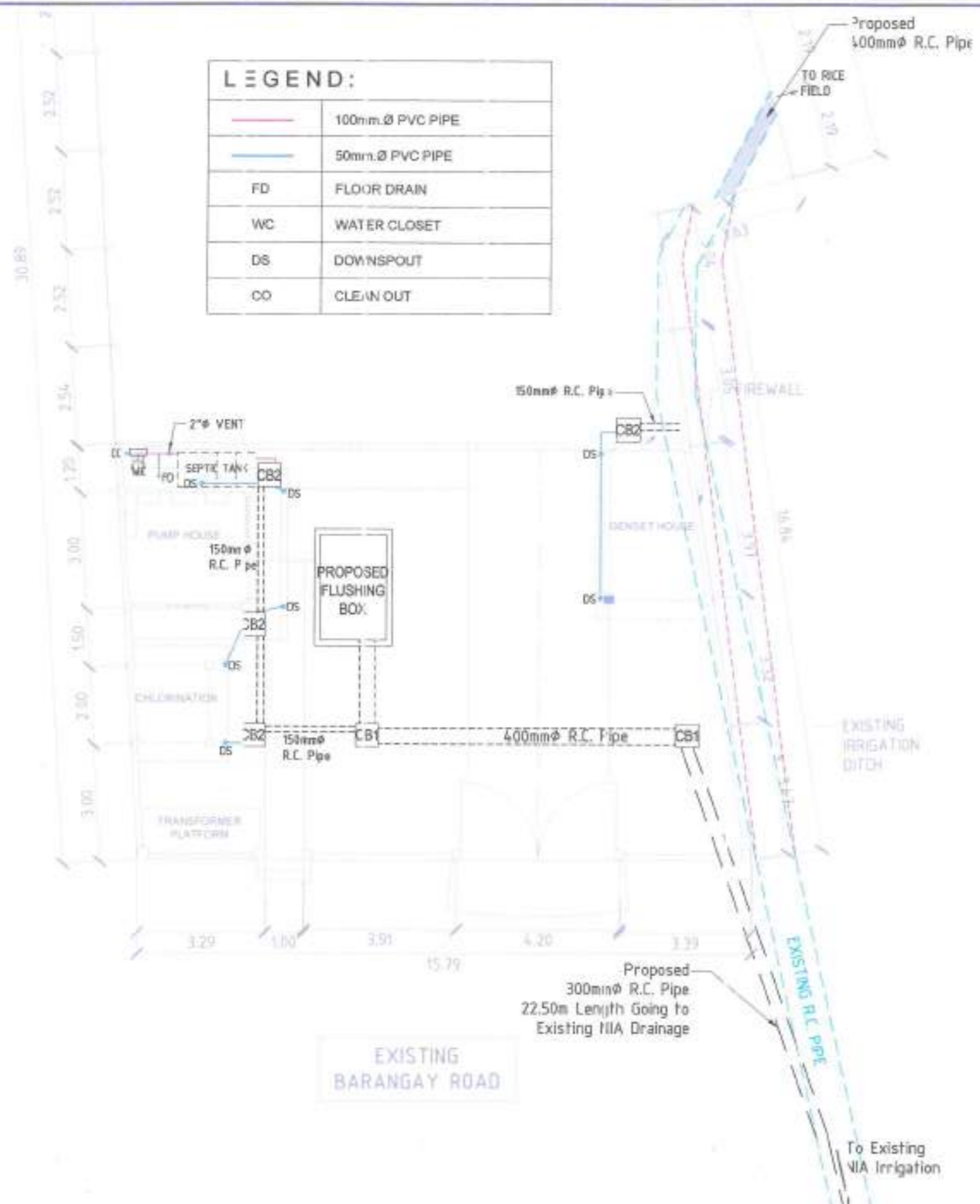
NOT TO SCALE

SEPTIC TANK DETAILS

<p>Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 40 J. Miranda Avenue, Naga City</p>	<p>PREPARED BY:</p> <p><i>Samuel A. Amores</i> SAMUEL A. AMORES QC - PDC</p>	<p>CHECKED BY:</p> <p><i>Sonjun O. Melares</i> SONJUN O. MELARES QC - Dep't Manager A, EEO</p>	<p>RECOMMENDING APPROVAL:</p> <p><i>Arturo M. Marco</i> ARTURO M. MARCO QC - Dep't Manager A, PD</p>	<p>APPROVED:</p> <p><i>Roque Francisco</i> ROQUE FRANCISCO Assistant General Manager, O&TS</p>	<p>APPROVED:</p> <p><i>Florencio T. Mongoso Jr.</i> FLORENCIO T. MONGOSO JR., CSEE General Manager</p>	<p>PROJECT FILE/LOCATION:</p> <p>PROPOSED STA. LUCIA II PUMPING STATION Zone 5, Barangay Sta. Lucia, Hagarao, Camarines Sur</p>	<p>SHEET CONTENTS:</p> <p>AS SHOWN</p>	<p>SHEET NO.</p> <p>14 / 18</p> <p>Date: 04-24</p>
	<p>PHOTO COPY PROHIBITED</p>							

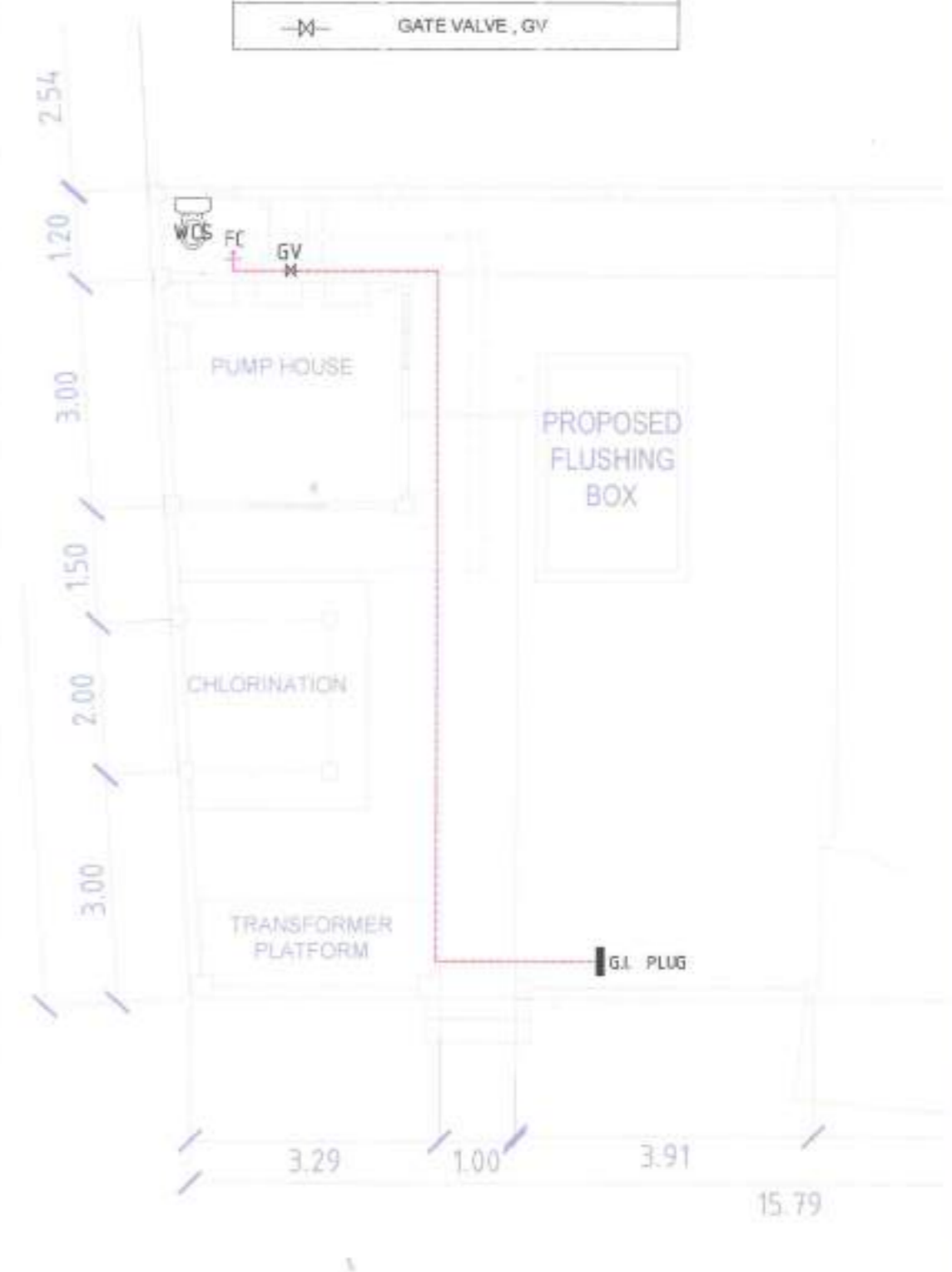
LEGEND:

	100mm.Ø PVC PIPE
	50mm.Ø PVC PIPE
FD	FLOOR DRAIN
WC	WATER CLOSET
DS	DOWNSPOUT
CO	CLEAN OUT




LEGEND:

	12mm.Ø, S-40 G.I PIPE
FC	FAUCET
WCS	WATER CLOSET SUPPLY
	GATE VALVE, GV



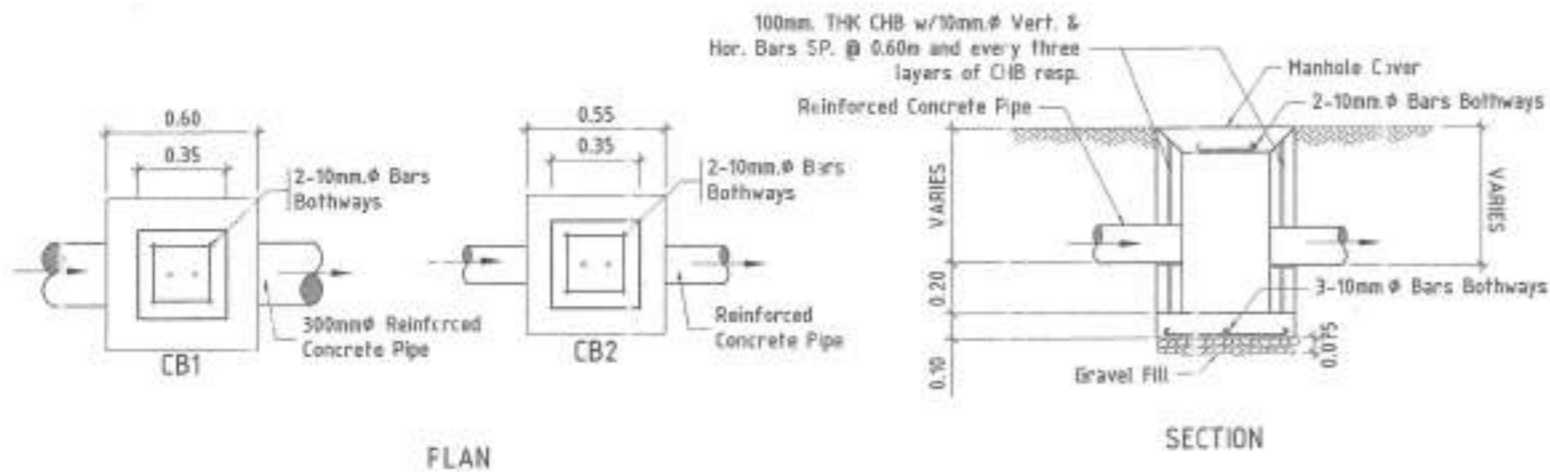
 SANITARY LAYOUT

SCALE : 1 : 125 MTS.

 CLEAN WATER LAYOUT

SCALE : 1 : 100 MTS.

 <p>Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 40 J. Miranda Avenue, Naga City</p>	PREPARED BY: SAMUEL A. AMORES OIC - Dep't. Manager A, EED	CHECKED BY: SONJUN O. MILLARES OIC - Dep't. Manager A, EED	RECOMMENDING APPROVAL: ARTURO M. MARCO OIC - Dep't. Manager A, PD	APPROVED: RODOLFO S. FRANCISCO Assistant General Manager, O&TS	APPROVED: FLORENCIO T. MONGOSO JR., CSEE General Manager A	PROJECT TITLE/LOCATION: PROPOSED STA. LUCIA II PUMPING STATION Zone 5, Barangay Sta. Lucia, Ilogarao, Camarines Sur	SHEET CONTENTS: SANITARY/PLUMBING DETAILS CLEAN WATER LAYOUT	SHEET NO: 15 / 18 Date: 04-24
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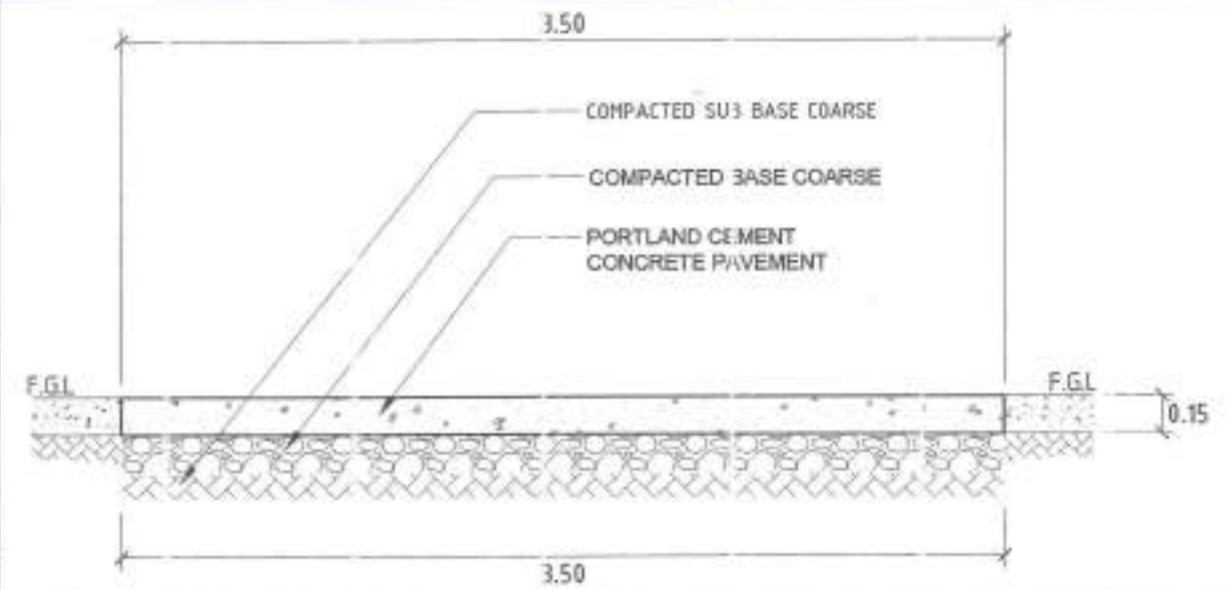


FLAN

SECTION

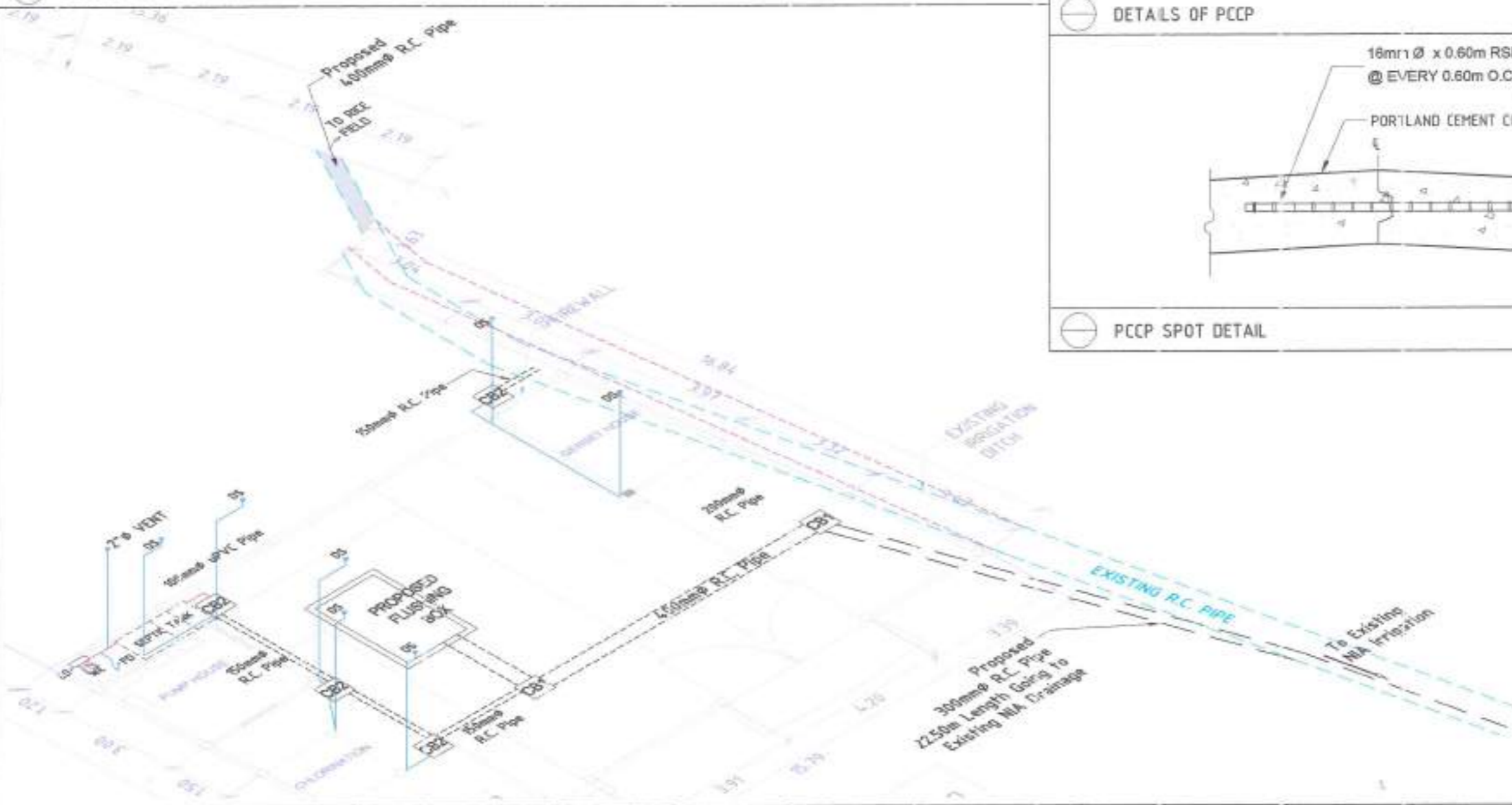
DETAILS OF CATCH BASIN

SCALE : 1 : 30 MTS.



DETAILS OF PCCP

SCALE : 1 : 30 MTS.



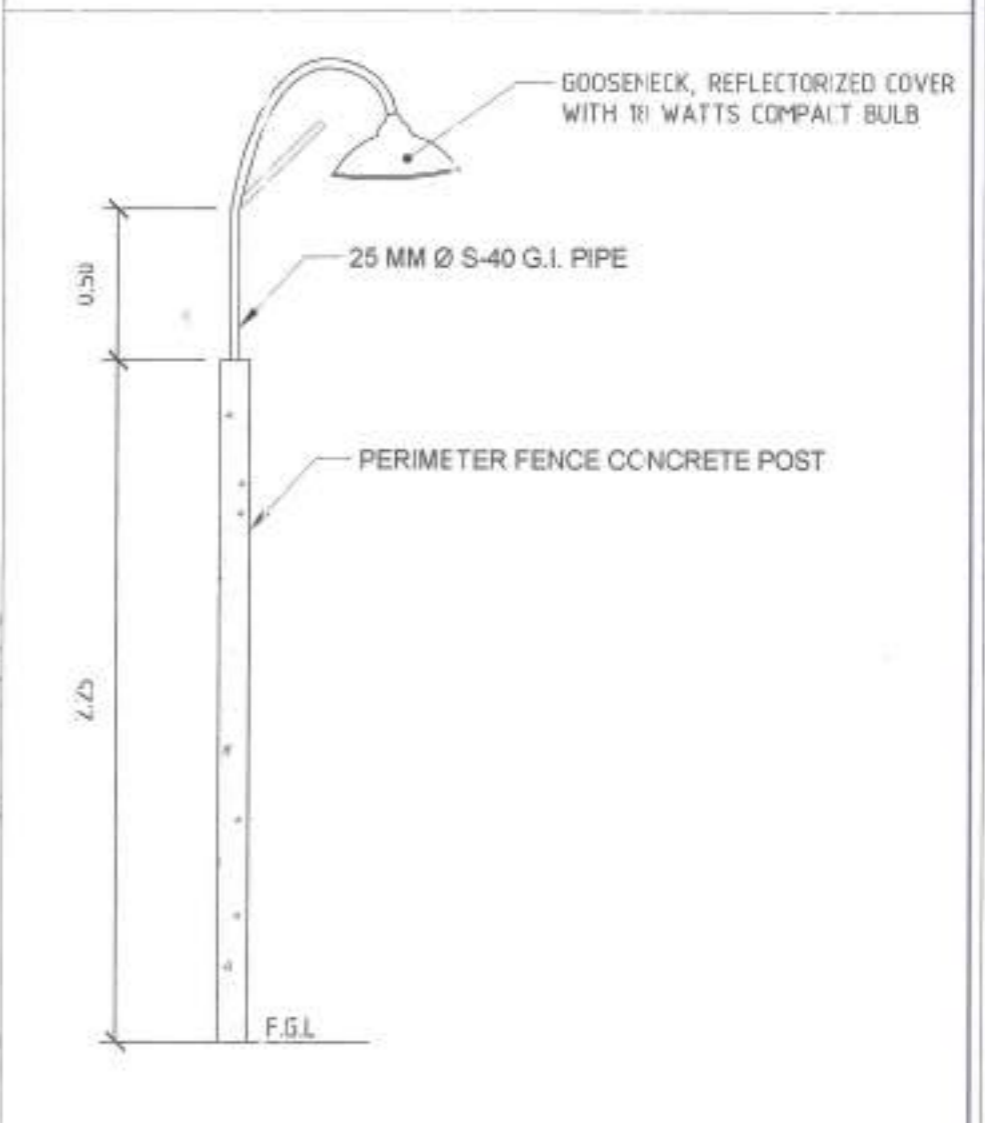
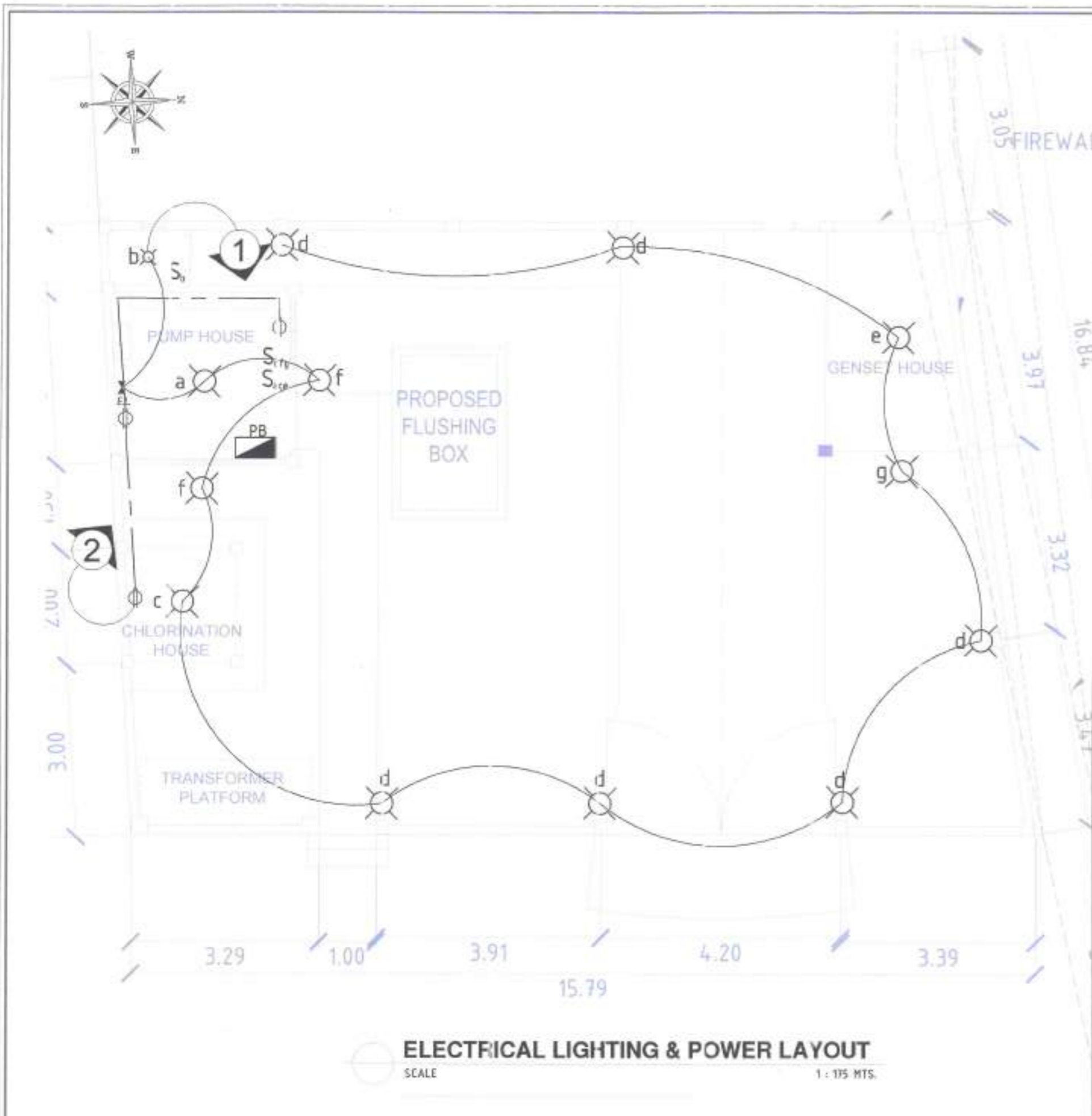
PCCP SPOT DETAIL

SCALE : 1 : 10 MTS.

ISOMETRIC SANITARY LAYOUT

SCALE : 1 : 100 MTS.

<p>Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 40 J. Miranda Avenue, Naga City</p>	<p>PREPARED BY: SAMUEL A. AMORES CHIEF ENGINEER</p>	<p>CHECKED BY: SONJUN O. PILLARES CHIEF ENGINEER</p>	<p>RECOMMENDING APPROVAL: ARTURO M. MARCO DEPUTY MANAGER A, PD</p>	<p>APPROVED: ROQUE S. FRANCISCO ASSISTANT GENERAL MANAGER, O&TS</p>	<p>APPROVED: FLORENCIO A. MONGOSO JR., CSEE GENERAL MANAGER J.</p>	<p>PROJECT TITLE/LOCATION: PROPOSED STA. LUCIA II PUMPING STATION Zone 5, Barangay Sta. Lucia, Hagarao, Camarines Sur</p>	<p>SHEET CONTENTS: ISOMETRIC DETAILS OF PCCP</p>	<p>SHEET NO: 16 / 18 Date: 06-24</p>
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ELECTRICAL LIGHTING & POWER LAYOUT
SCALE 1 : 175 MTS.

DETAILS OF PERIMETER LIGHTS
SCALE 1 : 25 MTS.

<p>Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 40 J. Miranda Avenue, Naga City</p>	<p>PREPARED BY: SAMUEL A. AMORES OIC - OMA, PDC</p>	<p>CHECKED BY: SONJUN O. PILLARES OIC - Dep. Manager A, EEO</p>	<p>RECOMMENDING APPROVAL: ARTURO M. MARCO OIC - Dep't Manager A, PD</p>	<p>APPROVED: ROQUE S. FRANCISCO OIC - Dep't Manager A, PD</p>	<p>APPROVED: FLORENCIO T. MONGOSO JR., CSEE General Manager A</p>	<p>PROJECT TITLE/LOCATION: PROPOSED STA. LUCIA II PUMPING STATION Zone 5 Barangay Sta. Lucia, Magara, Camarines Sur</p>	<p>SHEET CONTENTS: PERIMETER LIGHTS LAYOUT PERIMETER LIGHTS DETAILS</p>	<p>SHEET NO: 17 / 18 Date: 04-24</p>
	<p>EEDP17, REV. 00, AUGUST 5, 2017</p>							

SCHEDULE OF LOADS													
CIRCUIT NO.	LOAD DESCRIPTION	NO. OF			SWITCHES			VOLT	VA	AMP	CIRCUIT BREAKER RATINGS	SIZE OF WIRE	SIZE OF CONDUIT
		L.O.	C.O.	S.P.	S1	S2	S3						
1	LIGHTING LOADS & ELIGHT	8			1		1	230	900	2.81	15AT, 2P, 50AF	2C - 2.0 mm ² THHN COPPER WIRE 1C - 2.0 mm ² THHN COPPER WIRE	20 mm Ø uPVC PIPE
2	LIGHTING LOADS (PERIMETER FENCE)	6					1	230	900	2.81	15AT, 2P, 50AF	2C - 2.0 mm ² THHN COPPER WIRE 1C - 2.0 mm ² THHN COPPER WIRE	20 mm Ø uPVC PIPE
3	CONVENIENCE OUTLETS		3					230	360	1.58	20AT, 2P, 50AF	2C - 2.0 mm ² THHN COPPER WIRE 1C - 2.0 mm ² THHN COPPER WIRE	20 mm Ø uPVC PIPE
4	CONVENIENCE OUTLETS (CHLORINATION HOUSE)		1					230	180	0.78	20AT, 2P, 50AF	2C - 2.0 mm ² THHN COPPER WIRE 1C - 2.0 mm ² THHN COPPER WIRE	20 mm Ø uPVC PIPE
5	SPARE							230	000	4.35	20AT, 2P, 50AF	2C - 5.5 mm ² THHN COPPER WIRE 1C - 5.5 mm ² THHN COPPER WIRE	20 mm Ø uPVC PIPE
TOTAL		12	3		1		2	230	1740	11.91	50AT, 2P, 50AF	2C - 8.0 mm ² THHN COPPER WIRE 1C - 5.5 mm ² THHN COPPER WIRE	32 mm Ø uPVC PIPE

GENERAL NOTES AND SPECIFICATIONS:

1. ALL WORKS HEREIN SHALL CONFORM WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LABOR AND SAFETY CODE AND ALL THE REQUIREMENTS OF LOCAL UTILITY COMPANY.
2. POWER SUPPLY TO BE INSTALLED SHALL BE SINGLE PHASE, TWO-WIRES, 230 VOLTS, 60 Hz.
3. MINIMUM SIZE OF WIRE TO BE USED WHEN NOT INDICATED SHALL BE 20 MM² THHN FOR SWITCH LEGS AND 3.5 MM² THHN FOR ALL CIRCUIT RUNS.
4. ALL SWITCHES SHALL BE INSTALLED 150M AND ALL OUTLETS AT 0.30M FROM FINISHED FLOOR LEVEL AND POWER PANEL SAFETY SWITCH SHALL BE 1.80M, KILOWATT HOUR METERS SHALL BE 1.75 FROM FLOOR LEVEL.
5. ALL ELECTRICAL WORKS HEREIN SHALL BE SUPERVISED BY LICENSED ELECTRICAL ENGINEER AND MASTER ELECTRICIAN.

COMPUTATIONS:

$$I_T = \frac{2740 \text{ V.A.} \times 100\% \text{ D.F.}}{230 \text{ V}}$$

$$I_T = 11.91 \text{ AMPS.}$$

RECOMMENDATIONS

USE 50AT/50AF, 2P, 230V, 60Hz CIRCUIT BREAKER FOR MAIN PROTECTION AND 2C - 8.00mm² THHN Cu WIRE + 1C - 5.50mm² THHN Cu WIRE IN 25mm Ø uPVC PIPE.

