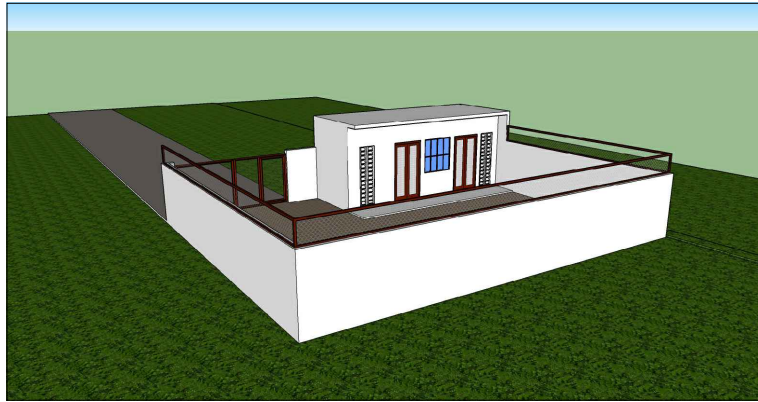
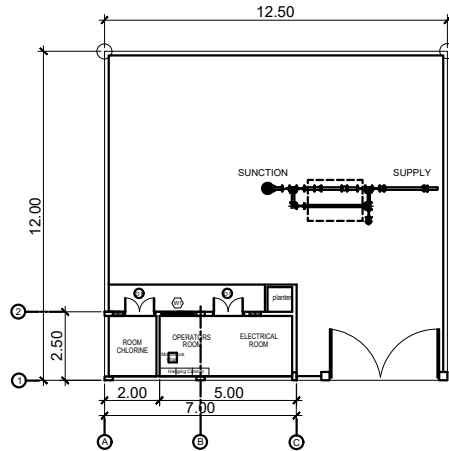


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PERSPECTIVE



SITE DEVELOPMENT PLAN

SCALE 1:200 m.

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REPUBLIC OF THE PHILIPPINES

DEPARTMENT of PUBLIC WORKS
TRANSPORTATION and
COMMUNICATION

OFFICE OF THE BUILDING OFFICIAL

DISTRICT / CITY / MUNICIPALITY

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

STRUCTURAL

MECHANICAL

ELECTRICAL

PLUMBING



CALAMBA WATER DISTRICT
ENGINEERING DEPARTMENT
PLANNING AND DESIGN DIVISION

PROJECT TITLE:
PROPOSED PUMPING STATION BUILDING

LOCATION: BRGY. BUBUYAN, CALAMBA CITY

DRAWN BY: A. L. DEL PRADO

DESIGNED BY: A. L. DEL PRADO

RECOMMENDED BY: ENGR. J. A. GILLERA

APPROVED BY: MR. E. A. AGUILAR JR.

SHEET CONTENTS:

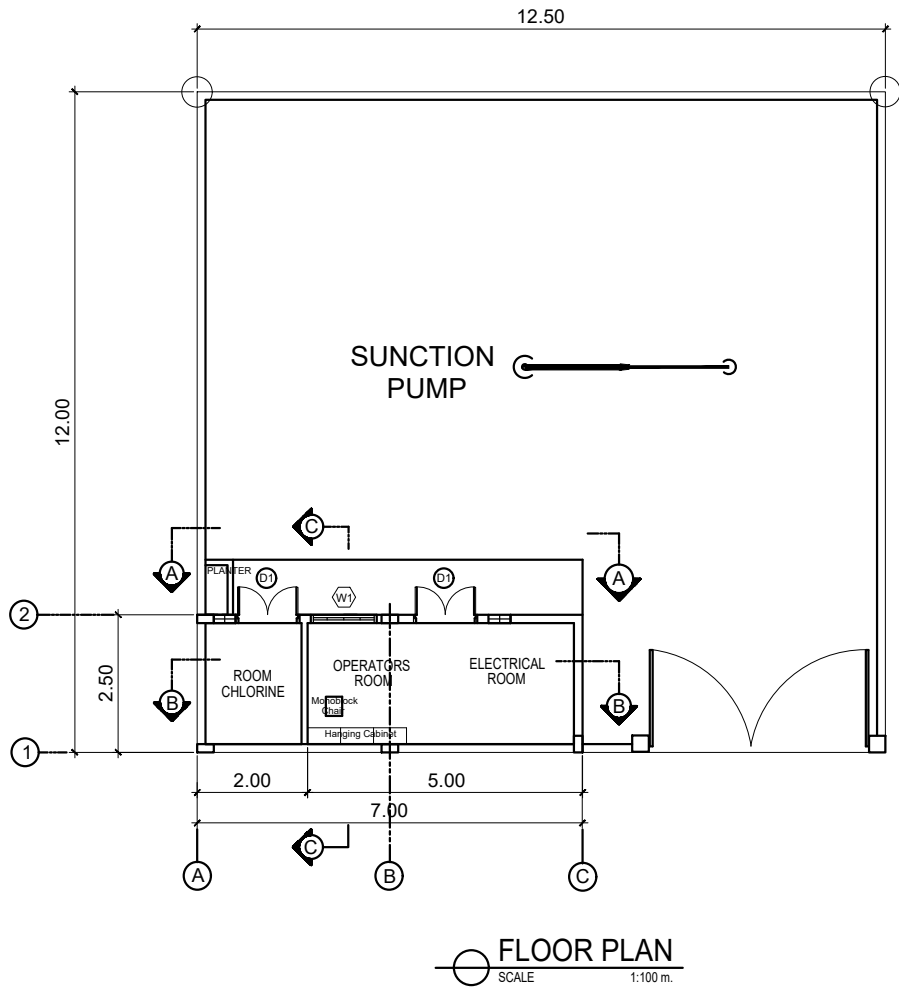
PERSPECTIVE
SITE DEVELOPMENT PLAN
LOCATION PLAN

DATE: 07/22/2021

SHEET NO.

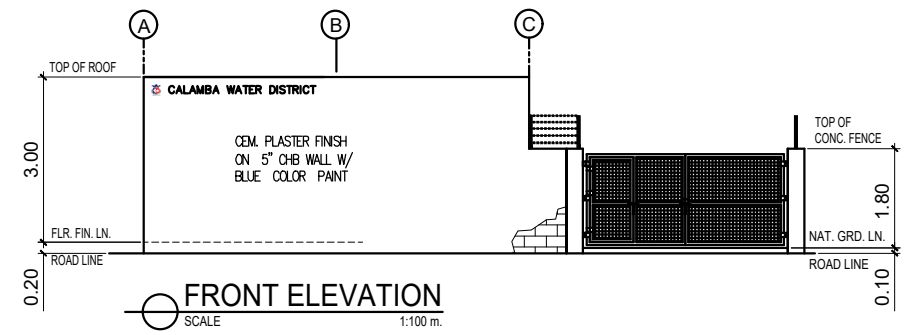
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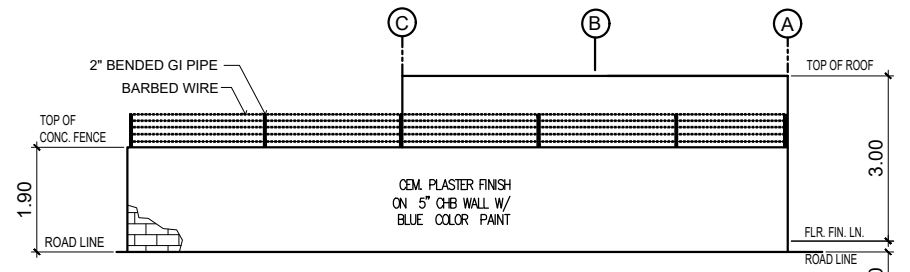


FLOOR PLAN
SCALE 1:100 m.

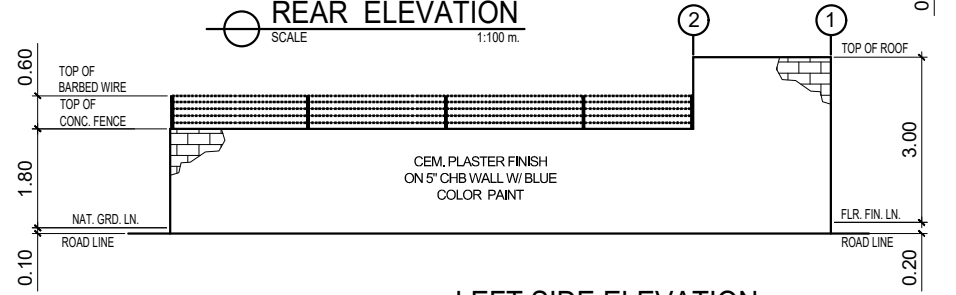
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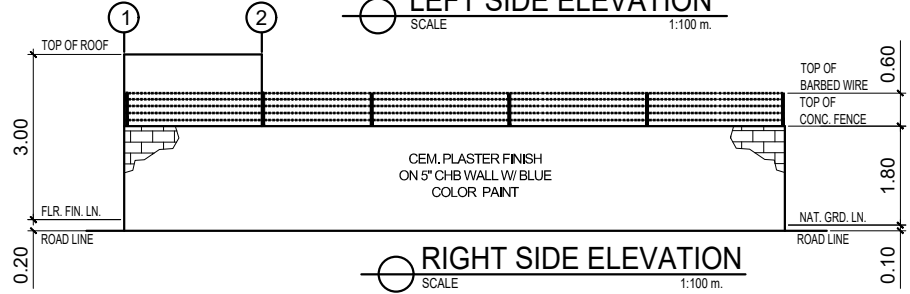
FRONT ELEVATION
SCALE 1:100 m.



REAR ELEVATION
SCALE 1:100 m.



LEFT SIDE ELEVATION
SCALE 1:100 m.



RIGHT SIDE ELEVATION
SCALE 1:100 m.



CALAMBA WATER DISTRICT
ENGINEERING DEPARTMENT
PLANNING AND DESIGN DIVISION

PROJECT TITLE:
PROPOSED PUMPING STATION BUILDING

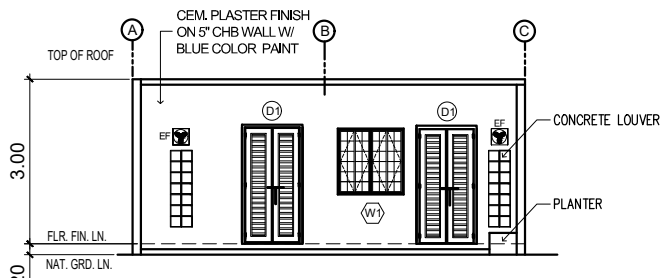
LOCATION: BRGY. BUBUYAN, CALAMBA CITY

DRAWN BY: A. L. DEL PRADO
DESIGNED BY: A. L. DEL PRADO
RECOMMENDED BY: ENGR. J. A. GILLERA
APPROVED BY: MR. E. A. AGUILAR JR.

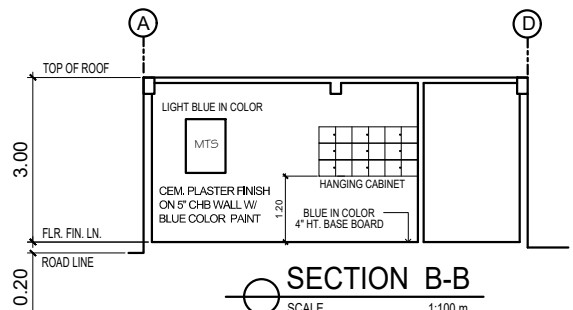
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FLOOR PLAN
FRONT ELEVATION
REAR ELEVATION
RIGHT SIDE ELEVATION
LEFT SIDE ELEVATION

DATE: 07/22/2021
SHEET NO.
A-1

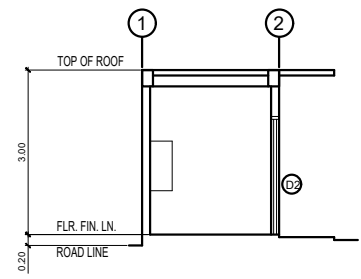
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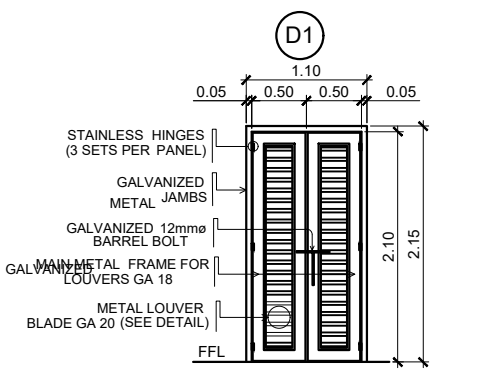
SECTION A-A
SCALE 1:100m.



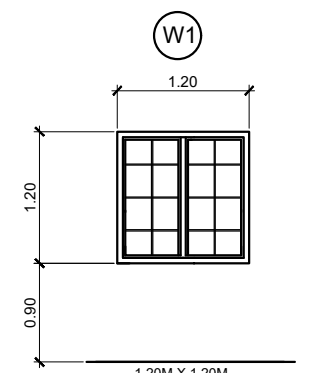
SECTION B-B
SCALE 1:100 m.



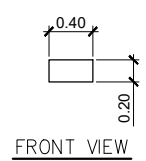
SECTION C-C
SCALE 1:100 m.



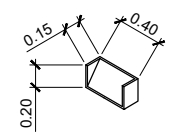
DOUBLE PANEL METAL LOUVER GA 20 ON GA 18 FRAME WITH BARREL BOLT PROVISION FOR SAFETY LOCK WITH EPOXY PRIMER & TOP COAT FINISH



SCHEDULE OF DOORS & WINDOW
SCALE 1:50 m.



FRONT VIEW



ISOMETRIC VIEW

DETAIL OF CONCRETE LOUVER

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W CALAMBA WATER DISTRICT
ENGINEERING DEPARTMENT
PLANNING AND DESIGN DIVISION
24/7 Public Service

PROJECT TITLE:
PROPOSED PUMPING STATION BUILDING

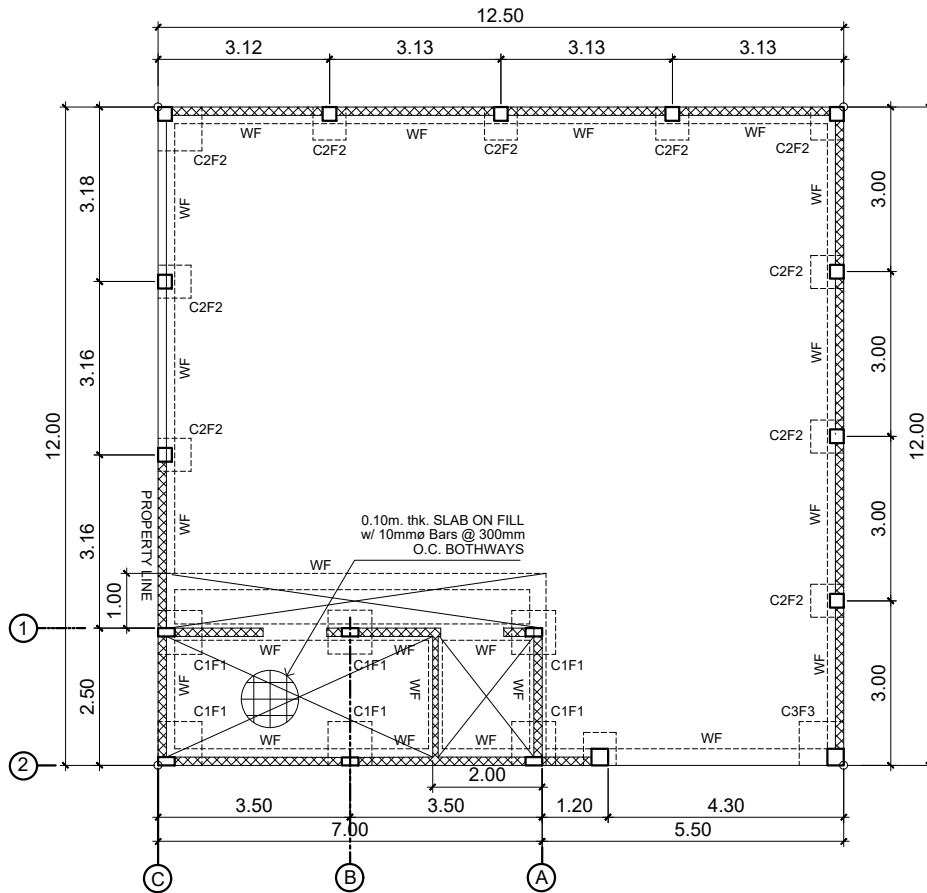
LOCATION: BRGY. BUBUYAN, CALAMBA CITY

DRAWN BY: A. L. DEL PRADO
DESIGNED BY: A. L. DEL PRADO
RECOMMENDED BY: ENGR. J. A. GILLERA
APPROVED BY: MR. E. A. AGUILAR JR.

SHEET CONTENTS:
SECTION A-A
SECTION B-B
SECTION C-C
SCHEDULE OF DOORS & WINDOWS
DETAIL OF CONCRETE LOUVER

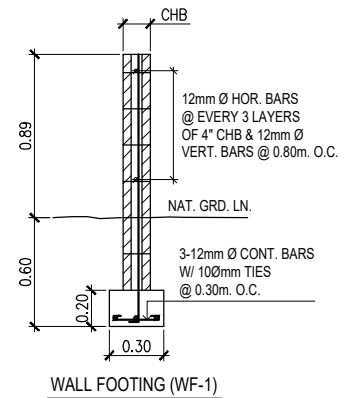
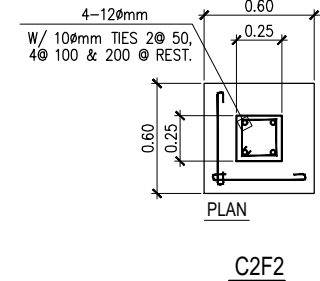
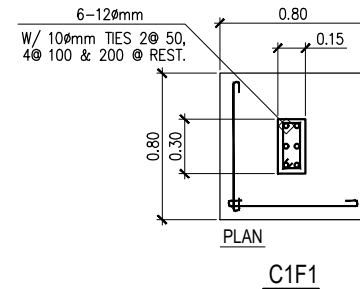
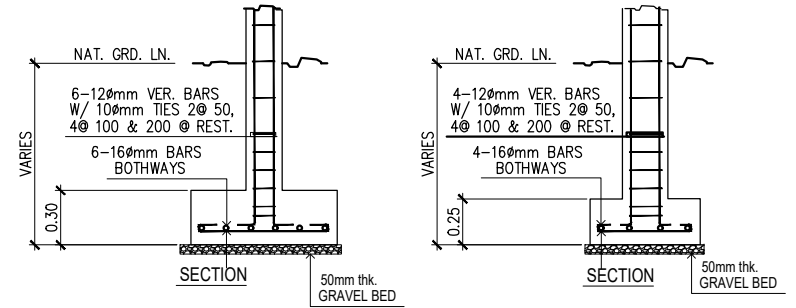
DATE: 07/22/2021
SHEET NO.
A-2

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FOUNDATION PLAN
SCALE 1:100 m.

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DETAIL OF FOOTINGS
SCALE 1:30m.

W CALAMBA WATER DISTRICT
 ENGINEERING DEPARTMENT
 PLANNING AND DESIGN DIVISION

PROJECT TITLE:
PROPOSED PUMPING STATION BUILDING

LOCATION: BRGY. BUBUYAN, CALAMBA CITY

DRAWN BY: A. L. DEL PRADO

DESIGNED BY: A. L. DEL PRADO

RECOMMENDED BY: ENGR. J. A. GILLERA

APPROVED BY: MR. E. A. AGUILAR JR.

SHEET CONTENTS:

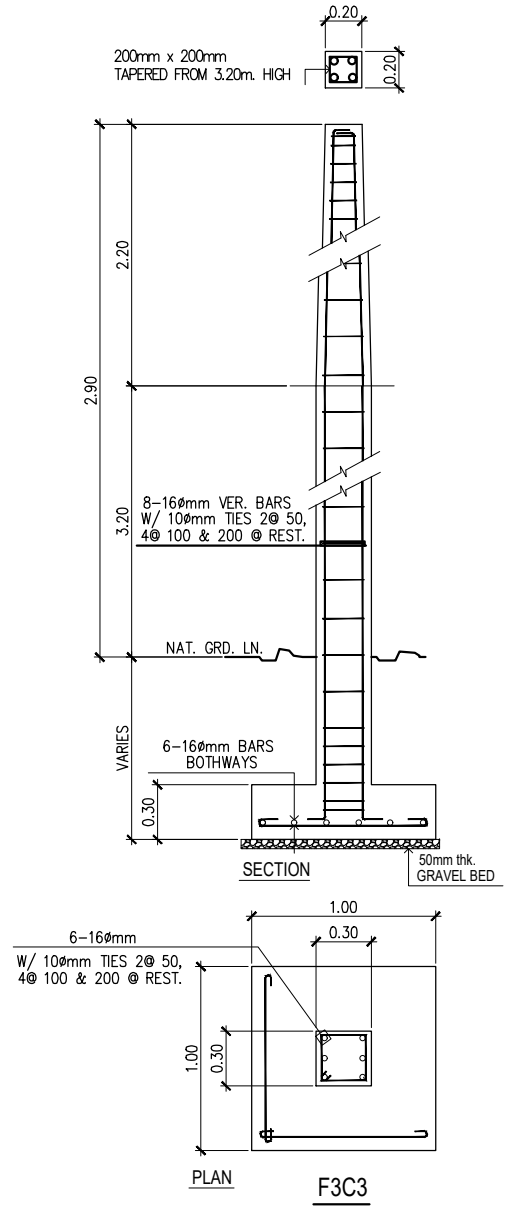
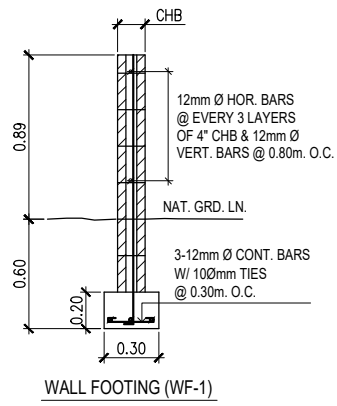
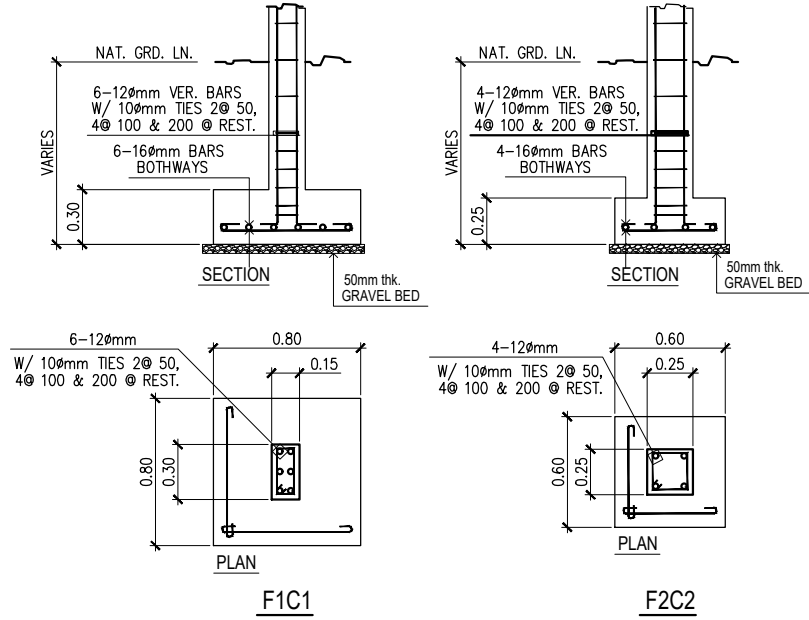
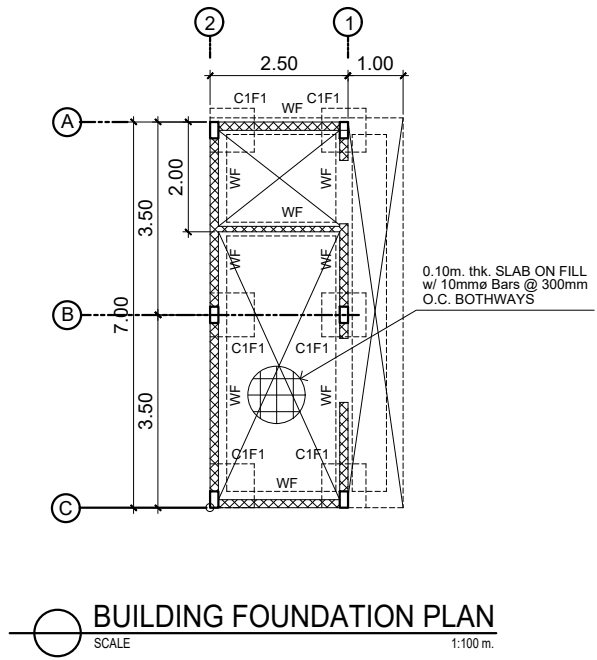
FOUNDATION PLAN
 DETAIL OF FOOTINGS
 DETAIL OF COLUMN
 DETAIL OF GRADE BEAM

DATE: 07/22/2021

SHEET NO.

S-1

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W CALAMBA WATER DISTRICT
 ENGINEERING DEPARTMENT
 PLANNING AND DESIGN DIVISION
 24/7 Public Service

PROJECT TITLE:
PROPOSED PUMPING STATION BUILDING

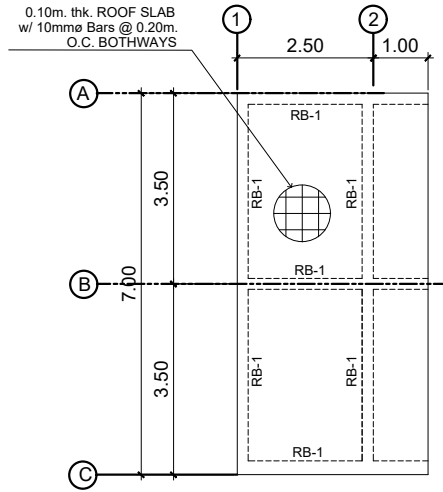
LOCATION: HOMELAND SUBD. BRGY. MILAGROSA, CALAMBA CITY

DRAWN BY: A. L. DEL PRADO
 DESIGNED BY: A. L. DEL PRADO
 RECOMMENDED BY: ENGR. J. A. GILLERA
 APPROVED BY: MR. E. A. AGUILAR JR.

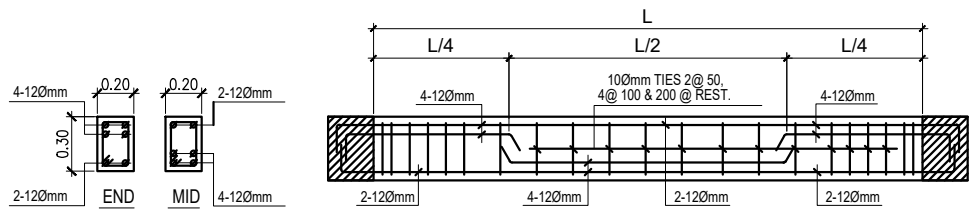
SHEET CONTENTS:
 BUILDING FOUNDATION
 PLAN
 DETAIL OF FOOTINGS

DATE: 07/26/2021
 SHEET NO.
S-2

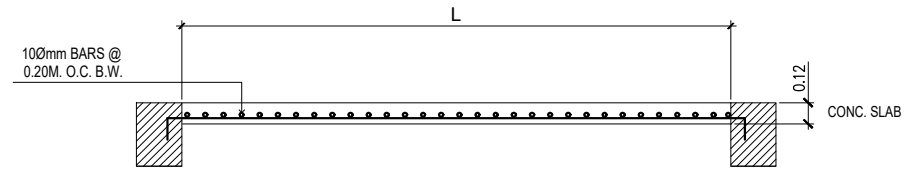
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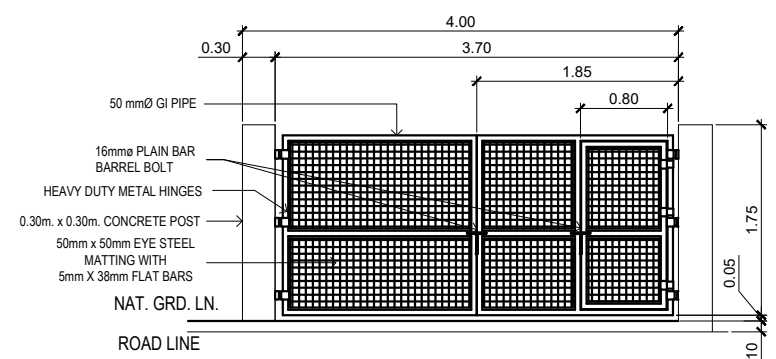
ROOF SLAB PLAN
SCALE 1:100 m.



DETAIL OF ROOF BEAM
SCALE 1:30mm.



CROSS-SECTIONAL DETAIL OF SUSPENDED SLAB
SCALE 1:30mm.



DETAIL OF STEEL GATE
SCALE 1:50 m.

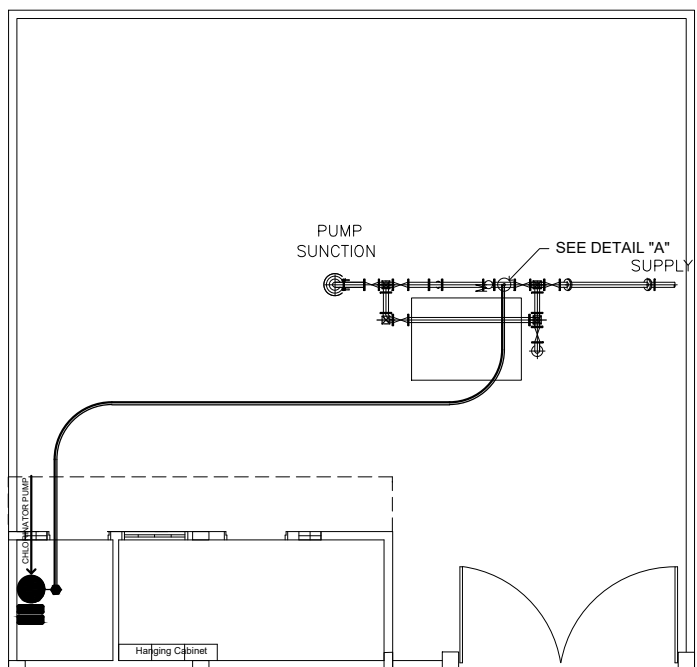
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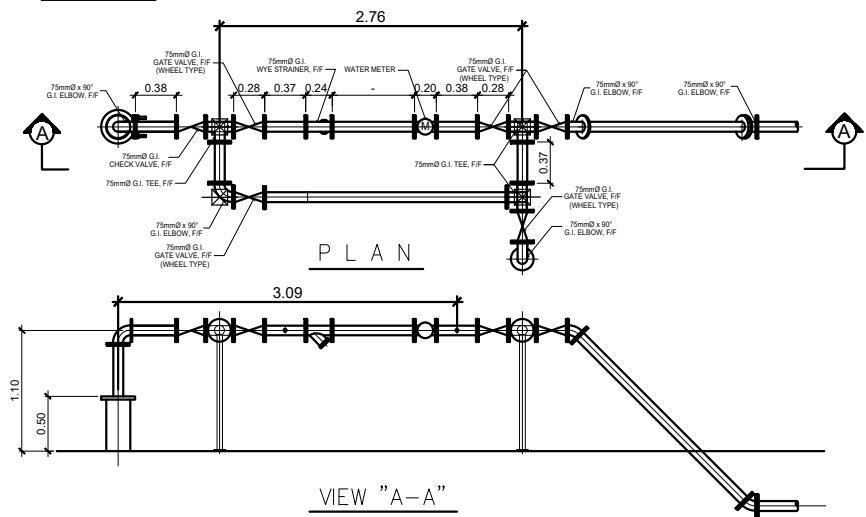
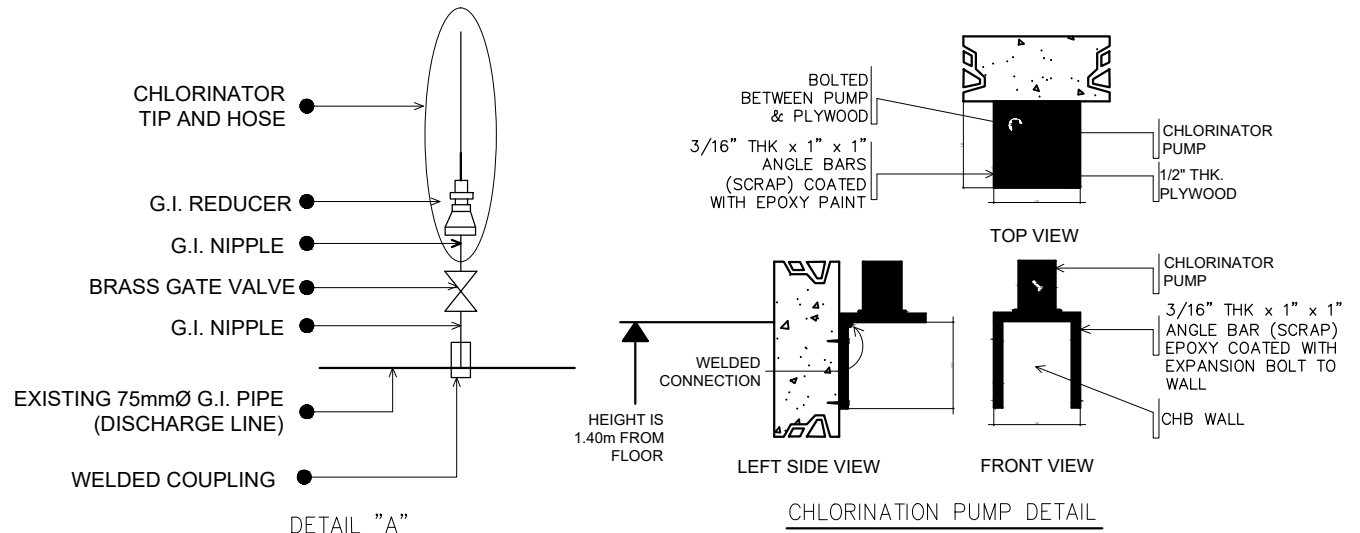
CALAMBA WATER DISTRICT
 ENGINEERING DEPARTMENT
 PLANNING AND DESIGN DIVISION

PROJECT TITLE:	DRAWN BY: A. L. DEL PRADO	SHEET CONTENTS:	DATE: 07/26/2021
PROPOSED PUMPING STATION BUILDING	DESIGNED BY: A. L. DEL PRADO	ROOF SLAB PLAN CROSS-SECTIONAL DETAIL OF BEAM DETAIL OF STEEL GATE	SHEET NO.
	RECOMMENDED BY: ENGR. J. A. GILLERA		S-3
LOCATION: HOMELAND SUBD. BRGY. MILAGROSA, CALAMBA CITY	APPROVED BY: MR. E. A. AGUILAR JR.		

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MECHANICAL LAYOUT
SCALE 1:100 m.

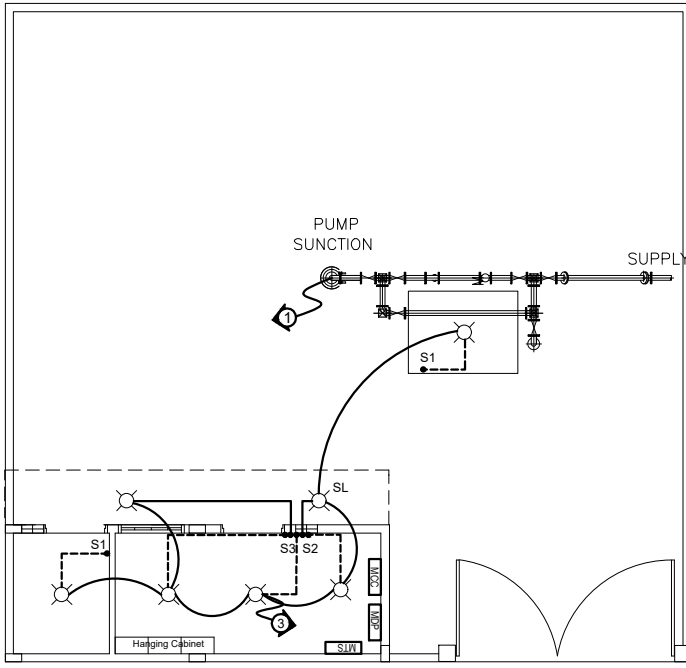


DETAIL OF DISCHARGE PIPE
SCALE 1:50 m.

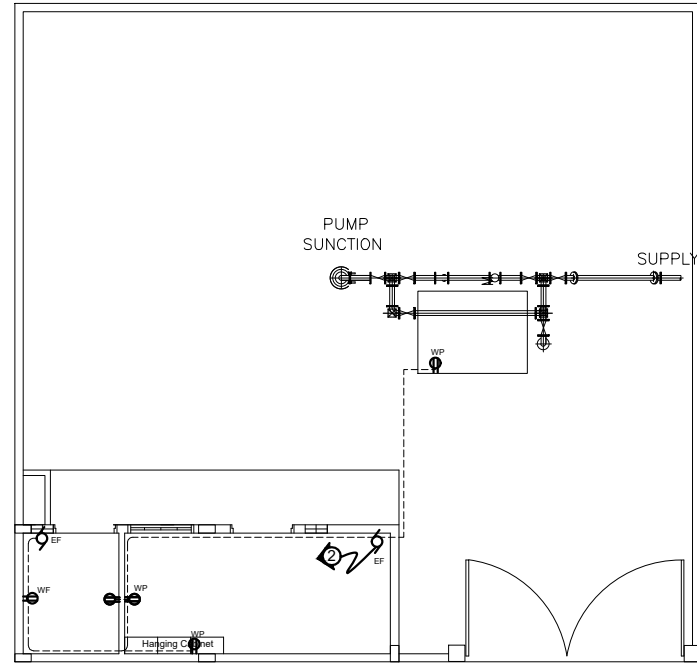
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 CALAMBA WATER DISTRICT ENGINEERING DEPARTMENT PLANNING AND DESIGN DIVISION 24/7 Public Service	PROJECT TITLE:	DRAWN BY: A. L. DEL PRADO	SHEET CONTENTS:	DATE: 07/22/2021
	PROPOSED PUMPING STATION BUILDING	DESIGNED BY: A. L. DEL PRADO	MECHANICAL LAYOUT CHLORINATION PUMP DETAIL DETAIL OF DISCHARGE PIPE	SHEET NO.
	LOCATION: BRGY. BUBUYAN, CALAMBA CITY	RECOMMENDED BY: ENGR. J. A. GILLERA		M-1
		APPROVED BY: MR. E. A. AGUILAR JR.		

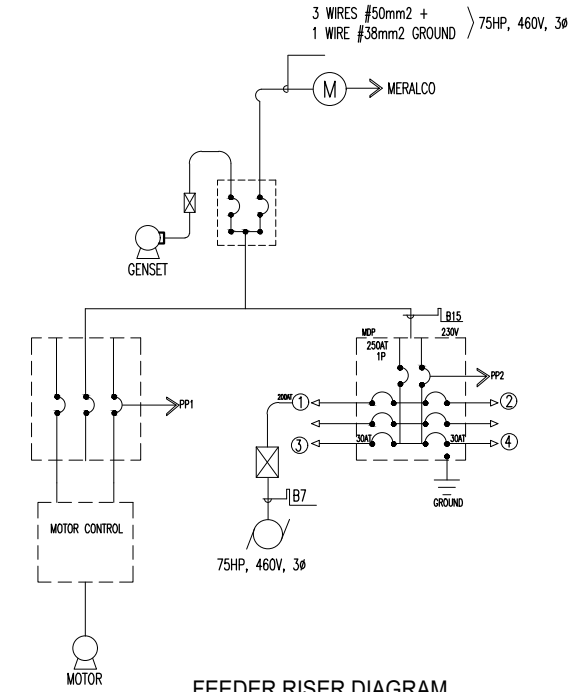
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LIGHTING LAYOUT



POWER LAYOUT



FEEDER RISER DIAGRAM

ELECTRICAL LAYOUT
SCALE 1:100 m.

SCHEDULE OF LOADS						
CKT. NO.	LOAD DESCRIPTION	WATTS	VOLTS	BREAKER	SIZE OF WIRES	CONDUITS
1	25Hp Submersible motor	18643	230	2P,90A,230V.	3-22mmø + 14mm ² (G) THHN Cable	50mmø PVC PIPE
2	5-Convenience Outlet & 2-Exhaust Fan	1100	230	2P,20A,230V.	2-3.5mm ² THHN	15mmø PVC PIPE
3	5-100w Lighting Outlet 1-500w Spotlight Outlet	1000	230	2P,15A,230V.	2-2.0mm ² THHN	15mmø PVC PIPE
4	SPARE					
TOTAL		20743	230	2P,100A,230V.	30mm ² THHN	75mmø PVC PIPE

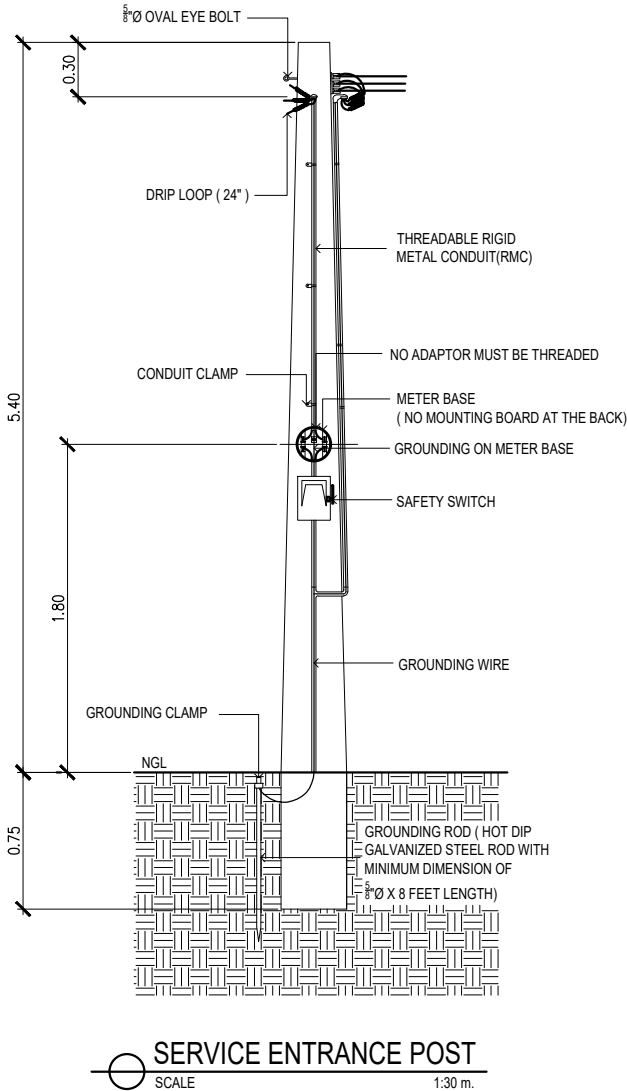
$A = \frac{20743 \times 0.8}{230} = 90.19$ (USE 2-30mm THHN & 22mm THHN GROUNDING IN 75mmø PVC PIPE)
 72.15×1.25

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W CALAMBA WATER DISTRICT
 ENGINEERING DEPARTMENT
 PLANNING AND DESIGN DIVISION
 24/7 Public Service

PROJECT TITLE:	DRAWN BY: A. L. DEL PRADO	SHEET CONTENTS:	DATE: 07/22/2021
PROPOSED PUMPING STATION BUILDING	DESIGNED BY: PEDRO ESTALAR	ELECTRICAL LAYOUT SCHEDULE OF LOADS RISER DIAGRAM	SHEET NO.
LOCATION: BRGY. BUBUYAN, CALAMBA CITY	RECOMMENDED BY: ENGR. J. A. GILLERA		E-1
	APPROVED BY: MR. E. A. AGUILAR JR.		

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ELECTRICAL SPECIFICATION

A. GENERAL SPECIFICATIONS:

- The work under this Division consists of furnishing all materials, equipment, tools, labor and all other services necessary to complete and make ready for operation the Electrical Power described below and or indicated in the Electrical Plans an Specifications in accordance with the latest edition of the Philippine Electrical Code with the Local Requirements of the Utility. Companies concerned and with the Local Government.
- Service to the Pump and Motor Load must 440v, 3Ø, 3w+1G Power System. And service to the Perimeter Lighting must be 230v, 1Ø, 2w+ 1G power system and service to Pump and Motor Load for single phase location.
- The Low Voltage Cables are THHN Insulated, Stranded, and Copper Conductor.
- All Ground Wires shall be Insulated Grounds.
- Cable sizes are selected by applying appropriate de-rating factors for ambient conditions of installations as per PEC.
- Power factor for all loads is assumed 0.80.
- Size of grounding wire will be based on PEC Table 3.10.1.16
- Ampacities of feeders supplying continuous loads are taken as 125% of Full Load Current as per PEC.
- All electrical materials shall be new and listed with the Underwriters Laboratories, Inc., shall meet their requirements and shall bear their label wherever standards have been established and label service is regularly furnished by that agency.
- Mounting height shall be as follows:
 - Convenience outlet shall be 300mm above floor finish
 - Convenience outlet shall be 300mm above lavatories
 - Wall switches shall be 1400mm on center from floor finish.
- Wiring Method shall be as follows:
 - Poly Vinyl Chloride (PVC) or Unplasticized Poly Vinyl Chloride (uPVC)- Used when embedded in concrete wall or masonry and can be laid underground within 500mm deep from earth grade.
 - Rigid Steel Conduit (RSC) - Used in exposed/wet location and can be laid underground within 200mm deep from earth grade.
- For easily identify the polarity, use color coded THHN/THWN and TW stranded copper conductor.
 - RED - positive or line 1
 - YELLOW - negative or line 2
 - BLUE - line 3
 - GREEN - ground
 - WHITE - neutral or lineside ground
 - BLACK - homerun or Main Feederline
- PVC and metal conduit shall be joined to junction boxes and pull box to make a grid and waterproof connection. If metal conduit is used, an insulated busing shall be provided at the end of the metal conduit on the inside of the junction box or pull box to prevent scuffing of the cable insulation.
- All works herein shall be done under the strict supervision of duly LICENSE ELECTRICAL ENGINEER.

B. LIGHTING FIXTURES SPECIFICATIONS:

All luminaires and ballasts shall be certified by the manufacturer

Fixture Type A

- 18W CFL w/ 4" Vertical Type Downlight, Aluminum Glossy Reflector and White Baked Finish Steel

Fixture Type B

- 30W Floodlight (CFL Type Lamp)

C. OUTLETS AND SWITCHES SPECIFICATIONS:

- Duplex Wide Series Universal Convenience Outlet - grounding type w/ faceplate, 15A, 230V, 1-phase
- 1-gang Normal Switch (Wide Series), 10A, 230V
- 2-gang Normal Switch (Wide Series), 10A, 230V
- 3-gang Normal Switch (Wide Series), 10A, 230V

D. PULL BOX (S), JUNCTION BOX(S) AND UTILITY BOX(S) SPECIFICATIONS:

- The junction box cover shall be made watertight and a suitable gasket and secured with stainless steel or cadmium plated screws or bolts
- Junction boxes shall be stainless steel.
- Junction boxes shall be flanged and designed for flush mounting if encased in concrete, or designed for surface mounting if external mounting is specified.
- Junction boxes shall be drilled or tapped for all conduit connections. Junction boxes shall be installed such that covers removable.

E. PANEL BOARD, MOTOR CONTROLLER AND MANUAL TRANSFER SWITCH SPECIFICATIONS:

- Factory assembly
- The panelboards shall be UL Listed.
- GENERAL: Except as otherwise indicated, provide panelboards, enclosures and ancillary components of types, sizes, and ratings indicated, which comply with manufacturer's standard materials, design and construction in accordance with published product information; equip with number of unit panelboard devices as required for complete installation. Where more than one type of component meets indicated requirements, selection is installer's option. Where types, sizes, or ratings are not indicated, comply with PEC, UL and established industry standards for applications indicated.
- ENCLOSURES: Provide galvanized sheet steel cabinet type enclosures, in sizes NEMA types as indicated, code-gage, minimum 16-gauge thickness. Construct with multiple knockouts and wiring gutters. Provide fronts with adjustable indicating trim clamps, and doors with flush locks and keys, all panelboard enclosures keyed alike, with concealed door hinges and door swings Equip with interior circuit-directory frame, and card with clear plastic covering. Provide POWDER COATED GRAY finish.
- Wet location panelboards shall be NEMA 4 enclosures/
- Use NEMA 1 enclosures for indoor use, primarily to provide a degree of protection against limited amounts of falling dirt.
- Use NEMA 3R enclosures for outdoor use, primarily to provide a degree of protection against rain, sleet, and damage from external ice formation.
- Equipment shall have a nameplate installed and mounted to the front cover and indicate: panelboard type, amp rating, voltage rating and short-circuit current rating.

LEGEND:

- ⊙ — 18W compact florescent lamp (CFL)
- Sa — 1-Gang Normal Switch (Wide Series), 10 A, 230V
- ⊕ — Duplex Wide Series Universal Convenience Outlet, Beige in color, 230V with amperage as required with grounding. Tandem with grounding, 15A, 250V
- ⊕ — Wall Fan Outlet Duplex Wide Series Universal Convenience Outlet, Beige in color, 230V with amperage as required with grounding. Tandem with grounding, 15A, 250V
- ⊕ — Weatherproof Outlet Duplex Wide Series Universal Convenience Outlet, Beige in color, 230V with amperage as required with grounding. Tandem with grounding, 15A, 250V
- ⊕ — Exhaust Fan
- — Switch, Power and Lightig Lay-out
- ⊕ — Circuit Number

NOTES:
 1. ALL SIZES AND LOCATIONS ARE SUBJECT TO CHANGE TO SUIT FIELD CONDITIONS.
 2. THE DESIGNER SHALL NOT BE LIABLE FOR ANY ALTERATION/ REVISION ON THE PLANS/ DRAWINGS AND SPECIFICATIONS IMPROVED BY THE AUTHORIZED SUPERVISING ENGINEER DONE WITHOUT THEIR KNOWLEDGE THAT MAY IMPAIR THE STRENGTH OF THE PROJECT.



CALAMBA WATER DISTRICT
 ENGINEERING DEPARTMENT
 PLANNING AND DESIGN DIVISION

PROJECT TITLE:
PROPOSED PUMPING STATION BUILDING

LOCATION: BRGY. BUBUYAN, CALAMBA CITY

DRAWN BY: A. L. DEL PRADO

DESIGNED BY: A. L. DEL PRADO

RECOMMENDED BY: ENGR. J. A. GILLERA

APPROVED BY: MR. E. A. AGUILAR JR.

SHEET CONTENTS:

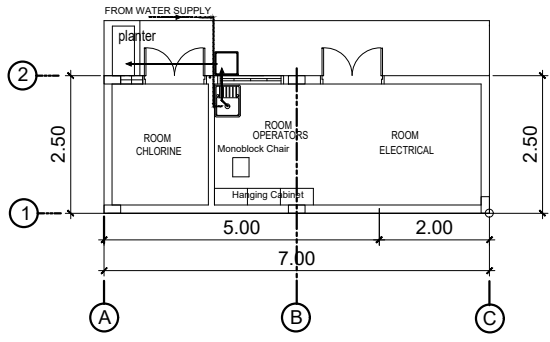
DETAIL OF ELECTRICAL
 CONCRETE POST
 ELECTRICAL SPECIFICATION
 LEGEND

DATE: 06/23/2021

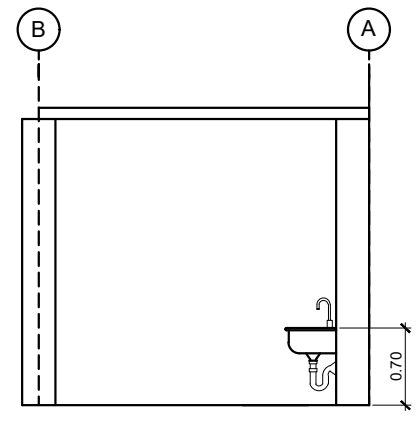
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E-2

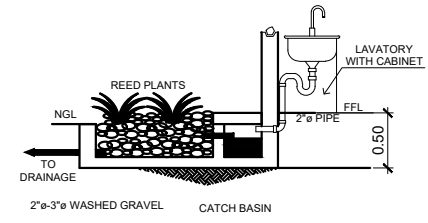
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SEWER LAYOUT
SCALE 1:100 m.



SECTION A-A
SCALE 1:100 m.



SECTION B - B

PLANTERS BOX DETAIL

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W CALAMBA WATER DISTRICT
ENGINEERING DEPARTMENT
PLANNING AND DESIGN DIVISION
2477 Public Service

PROJECT TITLE:
PROPOSED PUMPING STATION BUILDING

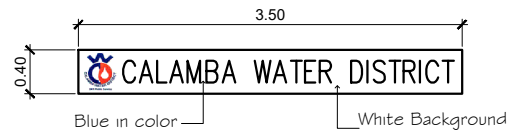
DRAWN BY: A. L. DEL PRADO
DESIGNED BY: A. L. DEL PRADO
RECOMMENDED BY: ENGR. J. A. GILLERA
APPROVED BY: MR. E. A. AGUILAR JR.

SHEET CONTENTS:
SEWER LAYOUT
PLANTERS BOX DETAIL

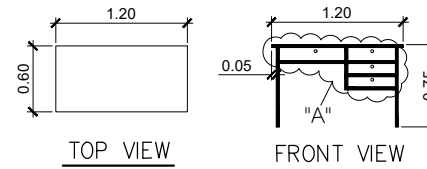
DATE: 07/22/2021
SHEET NO.
P-1

LOCATION: BRGY. BUBUYAN, CALAMBA CITY

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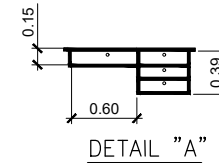


ACRYLIC SIGN



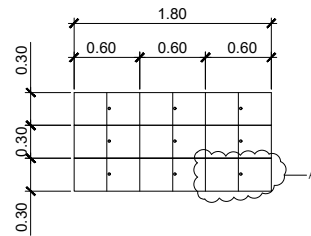
TOP VIEW

FRONT VIEW

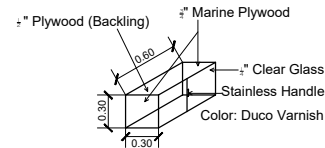


DETAIL "A"

TABLE DETAILS



DETAIL OF HANGING WOOD CABINET



SECTION A OF HANGING WOOD CABINET

- MATERIAL SPECIFICATIONS:
- 3/4" Marine Plywood
 - 1/2" Plywood (backling)
 - 4" Stainless Hinges
 - Magnetic Catches w/ lockset
 - 4" Stainless Cabinet Handle
 - 1/4" Clear Glass
 - Duco Varnish

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SHEET CONTENTS:

PROPOSED PORTALET
 DETAIL OF SIGNAGE
 DETAIL OF HANGING CABINET

DATE: 07/22/2021

SHEET NO.

SPECIALTIES