

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
REGIONAL FIELD UNIT NO. 5
SAN AGUSTIN PULI, CAMARINES SUR

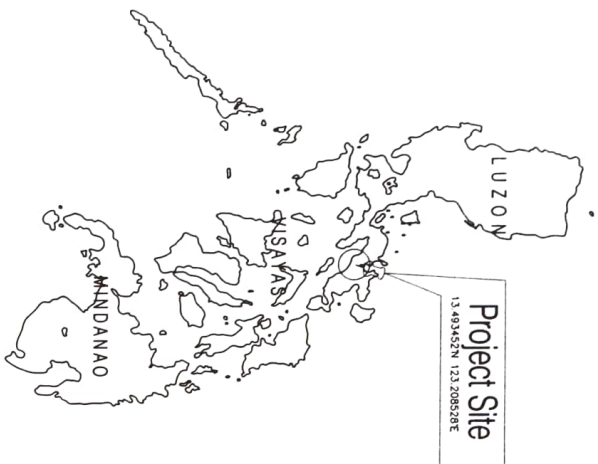
PROJECT TITLE

P R O P O S E D :

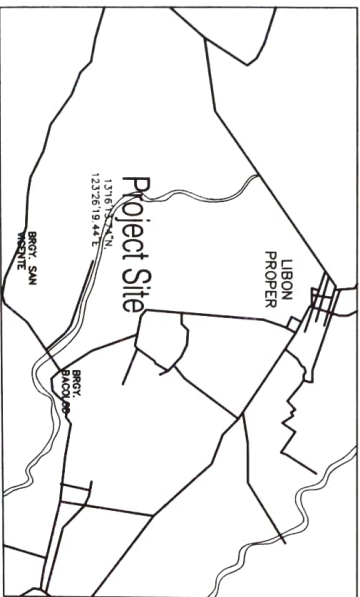
**SUPPLY, DELIVERY, INST. & COMMISSIONING
OF BACLOD-SAN VICENTE SOLAR
POWERED IRRIGATION SYSTEM
LOCATION: BRGY. BACLOD, LBON, ALBAY**

PREPARED BY:
RAID OFFICE





L O C A T I O N M A P



V I C I N I T Y M A P

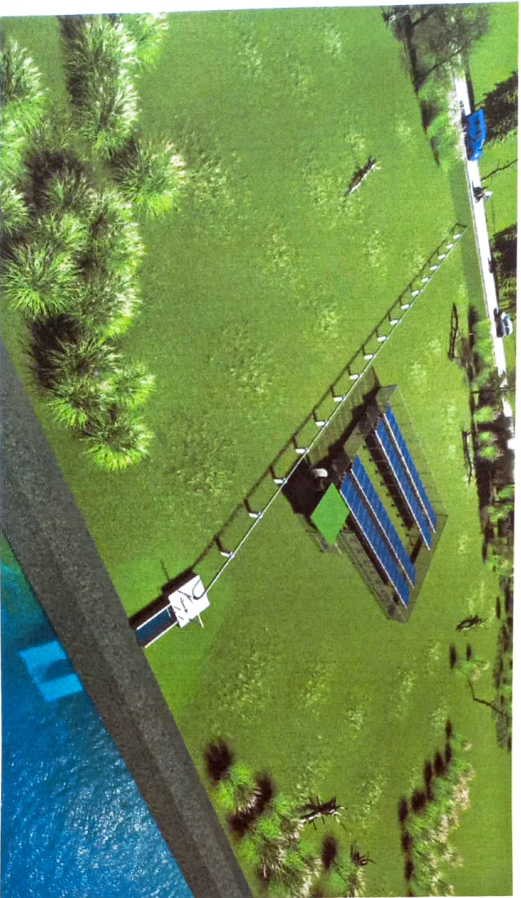
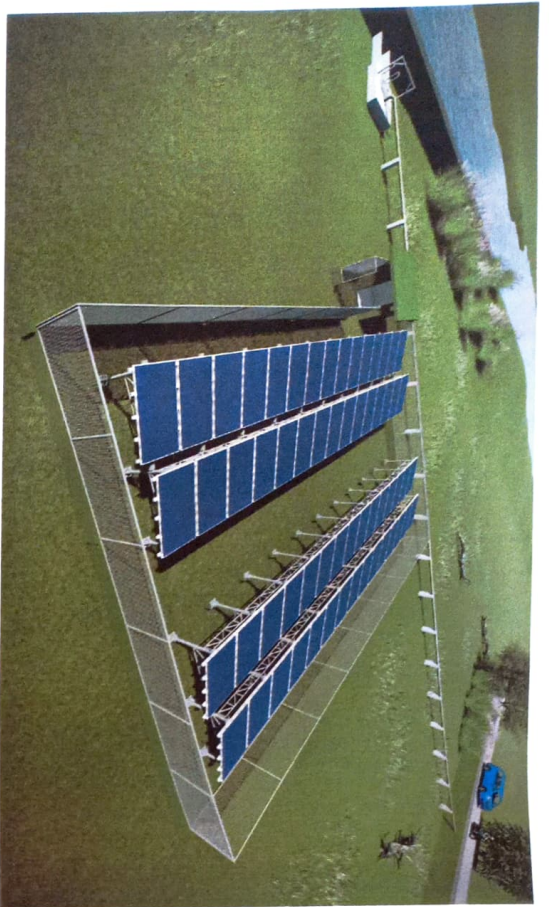
SHEET CONTENT :

①	LOCATION MAP SHEET CONTENT
②	SITE DEVELOPMENT PLAN
③	PROFILE ALONG CENTERLINE OF SPIS TOPOGRAPHIC MAP AND FARM PLAN
④	SOLAR ARRAY, CONTROLLER HOUSE AND FENCE LAYOUT DETAIL OF PERIMETER FENCE
⑤	SOLAR PV MODULE ARRAY PLAN SOLAR MOUNTING STRUCTURE FRAMING PLAN WEST, NORTH AND SOUTH ELEVATION
⑥	DETAIL OF FRAMING STRUCTURE
⑦	DETAIL OF STRUT (S-1, S-2, S-3) FOUNDATION PLAN OF PEDESTAL (C1F1) DETAIL OF PEDESTAL (C1F1)
⑧	DETAIL OF CONTROLLER HOUSE
⑨	DETAIL OF PUMP SUMP AND INTAKE CHANNEL
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⑪	GENERAL NOTES
⑫	DESIGN PARAMETER LOAD SCHEDULE & COMPUTATIONS SUBMERSIBLE PUMP DETAIL
⑬	PROJECT PERMANENT MARKER



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Prepared by:	Checked by:	Reviewed by:	Submitted by:	Recommending Approval:	Approved by:	Date of Expiry:
 BEL JOSEPH D. MONTO <small>Engineer I</small>	 ANTHONY B. MIRA <small>Engineer II</small>	 HENRY A. BORNA <small>Engineer III</small>	 GILBERT S. SALCEDO <small>Off. - Chief Field</small>	 LUZ R. MARESELINO <small>Off. - Chief of Office</small>	 RODIEL FONTANA MABE <small>Regional Administrator</small>	Supply, Delivery, Inst. & Commissioning of Bacodod-San Vicente SPIS Location: Brgy. Bacodod, Libon, Albay Sheet Count: AS SHOWN
						Date: Sheet No. of Total



PERSPECTIVE VIEW

SCOPE OF WORKS

1 REINFORCE CONCRETE PUMP SUMP		5 INSTALLATION OF PIPE LINE	
Length	Width	Height	Type
2.00	2.00	3.00	DDPE-SDR17
2 INTAKE CHANNEL		6 SOLAR ARRAY INSTALLATION	
Length	Width	Height	No. of Module
6.00	1.20	1.20	450.00
3 CONTROLLER HOUSE		7 SOLAR CONTROLLER AND INVERTER	
Length	Width	Height	DC Rating
2.10	2.10	2.20	300 - 900 V
4 PERIMETER FENCE		8 SUBMERSIBLE WATER PUMP	
Length	Column Span	Height	Motor Rating
60.00	4.00	2.00	15 KW
			Design Q
			234 m ³ /hr
			Design TDH
			15 m



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Prepared by:

BEL JOSEPH D. BONITO
Engineer I

Checked by:

ALYTHIA B. MORA
Engineer II

Reviewed by:

JERRY A. BERON
Engineer III

Submitted by:

GILBERT S. SALCEDO
DC - Chief/RAED

Recommending Approval:

LIZ B. MARCELO
STN for Operations and Engg.

Approved by:

RODEL P. PERALTA, MARE
Regional Director

Name of Project:

Supply, Delivery, Inst. & Commissioning of Bacod-San Vicente SPS

Location:

Brgy. Bacod, Libon, Albay

Small Contract:

AS SHOWN

Scale:

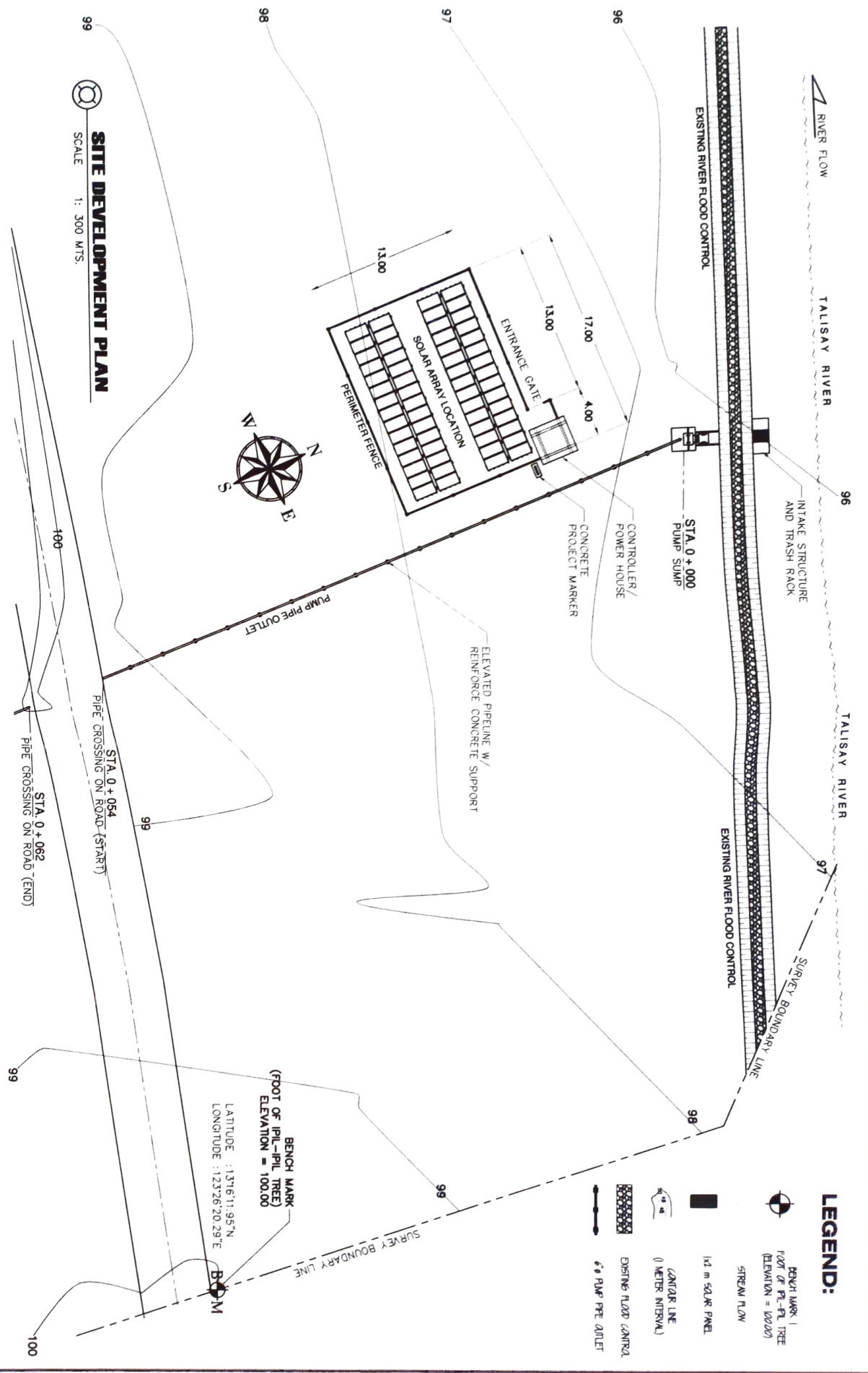
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Date:

05/2021

Sheet No.:

1 of 1



SITE DEVELOPMENT PLAN



REPUBLIC OF THE PHILIPPINES
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Prepared by:	Checked by:	Reviewed by:	Submitted by:	Recommending Approval:	Approved by:	Special Comments:
BEL JOSEPH D. BONITO Engineer I	ARTHUR B. MIRA Engineer II	JERRY A. EBORA District Office Eng. III	GILBERT S. SALCEDO P.C. Chief, Field	LUIZ R. MARCELINO RTO for Operations and Maintenance	RODEL P. TORRALBA Asst. District Engineer	By: Bencod, Libon, Albuay AS SHOWN
DATE:	DATE:	DATE:	DATE:	DATE:	DATE:	DATE:


TOPOGRAPHIC MAP AND FARM PLAN
 SCALE 1: 1,800 MTS.

Prepared by: *[Signature]*
 Checked by: *[Signature]*
 Reviewed by: *[Signature]*
 Submitted by: *[Signature]*
 Recommended Approver: *[Signature]*
 Approved by: *[Signature]*

BEL JOSEPH D. MONITO
 Engineer I

AGYTHEA MORA
 Engineer II

JERRY A. BRONA
 Engineer III

GUILLERMO S. SALCEDO
 Agr. Chemist

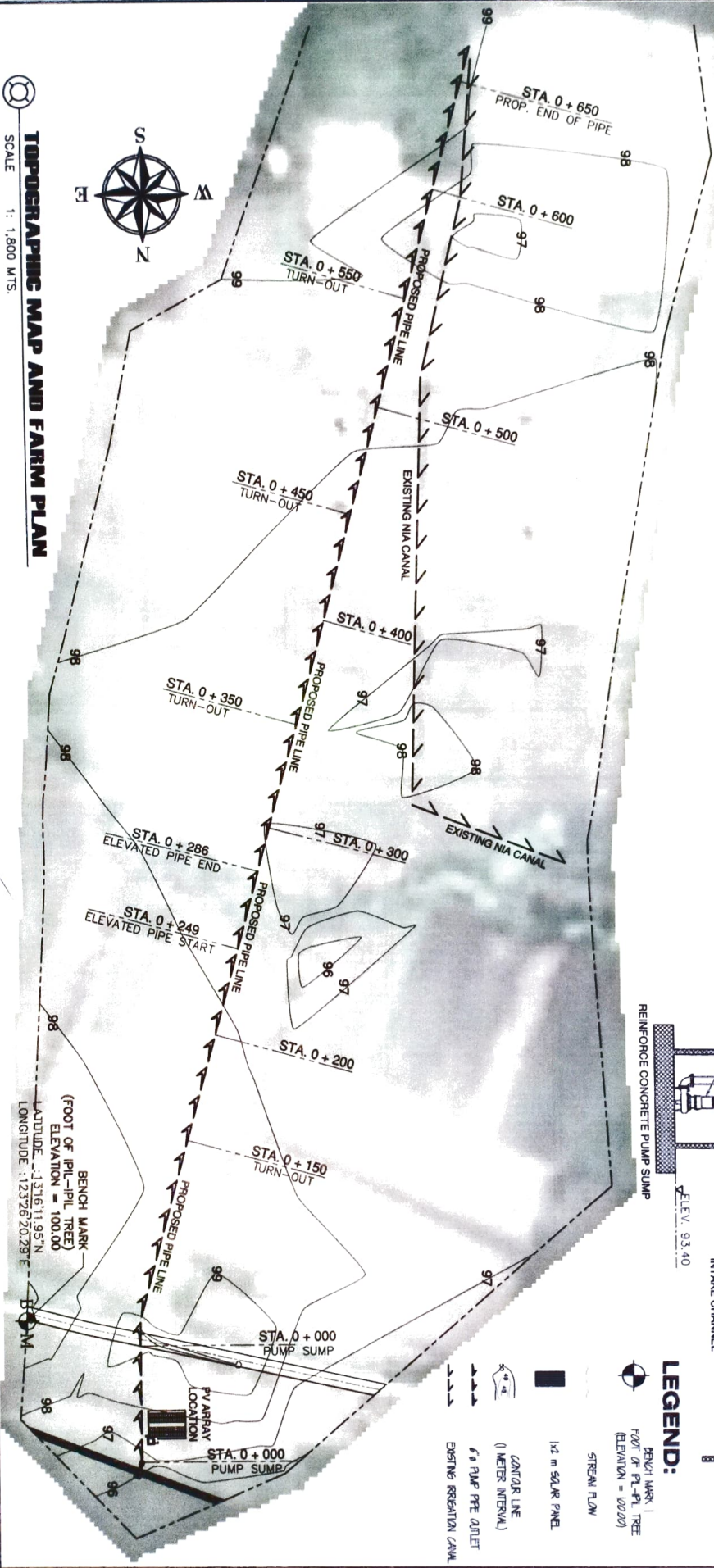
LUIS R. MARCELIANO
 Agr. Extension Specialist

RODEL E. JOYANTA
 Agr. Extension Specialist

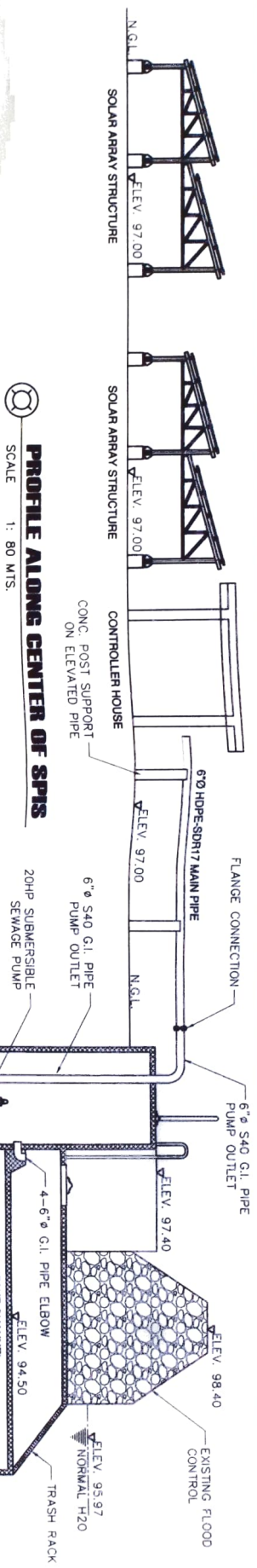
BING BARRERA, Laborer, Allow AS SHOWN
 Supply, Delivery, Inst. & Commissioning of Record-San Vicente SPIS

DATE: 02/01/2020
 SHEET NO.: 01/01
 OF: 01

BENCH MARK
 (FOOT OF I-PIL-IPIL TREE)
 ELEVATION = 100.00
 LATITUDE = 13°16'11.95"N
 LONGITUDE = 123°26'20.29"E

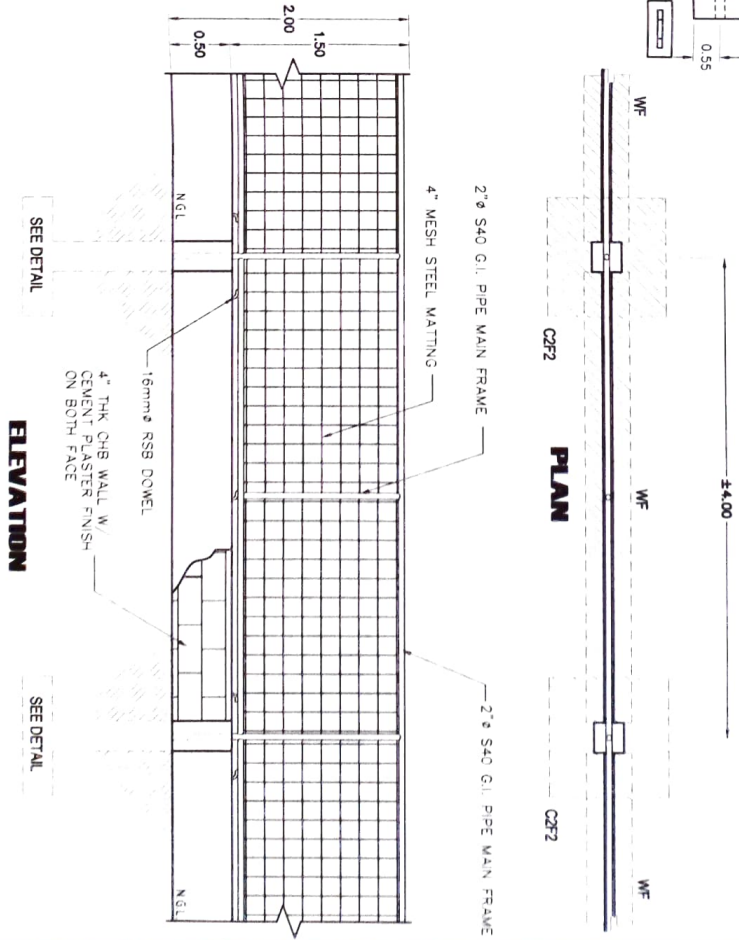
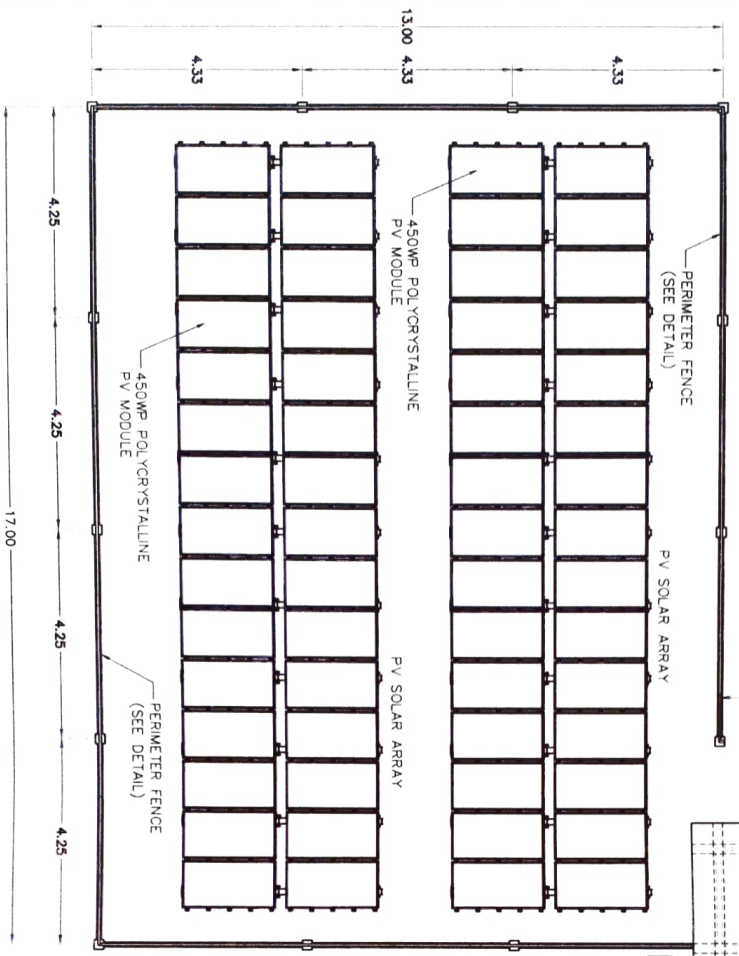
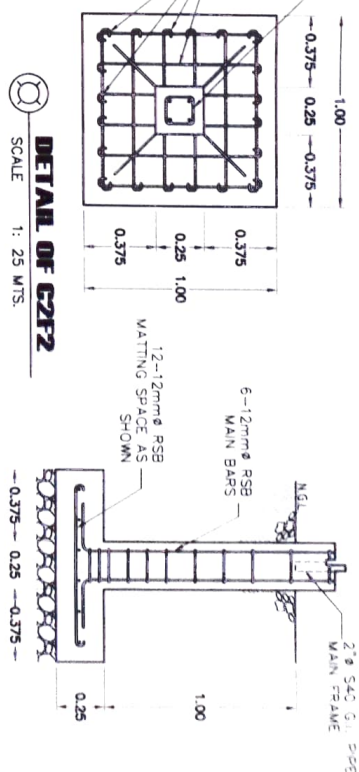
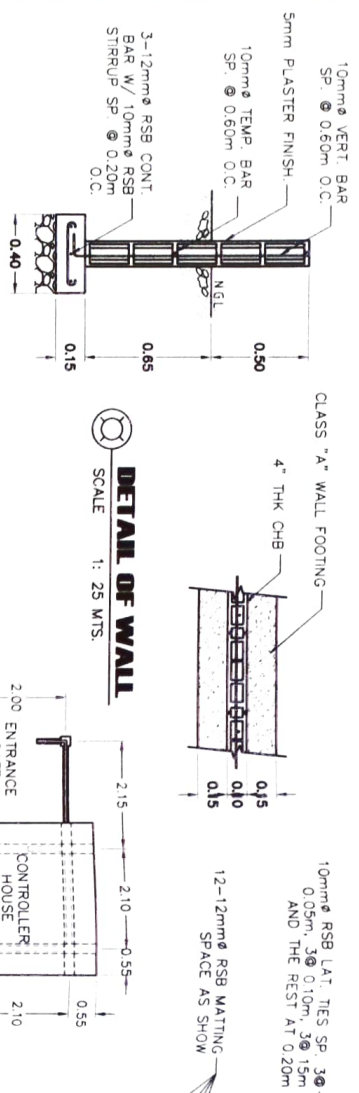



PROFILE ALONG CENTER OF SPIS
 SCALE 1: 80 MTS.



LEGEND:

- BENCH MARK (FOOT OF I-PIL-IPIL TREE) (ELEVATION = 100.00)
- STREAM FLOW
- 1/2 m SQUARE PANEL
- CONTOUR LINE (1 METER INTERVAL)
- 6" PUMP PIPE OUTLET
- DITCHING IRRIGATION CANAL



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Prepared By: **BEA JOSEPH D. BENTO**
Engineer 1

Checked By: **ANTHONY B. MORA**
Engineer 3

Reviewed By: **JERRY A. BENOJA**
Engr. (Civil Eng. III)

Submitted By: **GILBERT S. SALCEDO**
Engr. (Civil Eng.)

Supervising Approval: **LIZ R. MARTELINO**
Engr. for Operations and Extension

Approved By: **RODEL TORRALBA MABE**
Engr. (Civil Eng.)

Contract	BRN - Banded Link, Altnv
Special Contract	AS SHOWN

DATE	NO.
DATE	NO.



REPUBLIC OF THE PHILIPPINES
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 SAN AGUSTIN, PULI, CAGAYANES SUR

Prepared by:
 BEL JOSEPH D. BONTITO
 Engineer I

Checked by:
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 Engineer II

Reviewed by:
 JERRY A. EBONA
 Engineer III

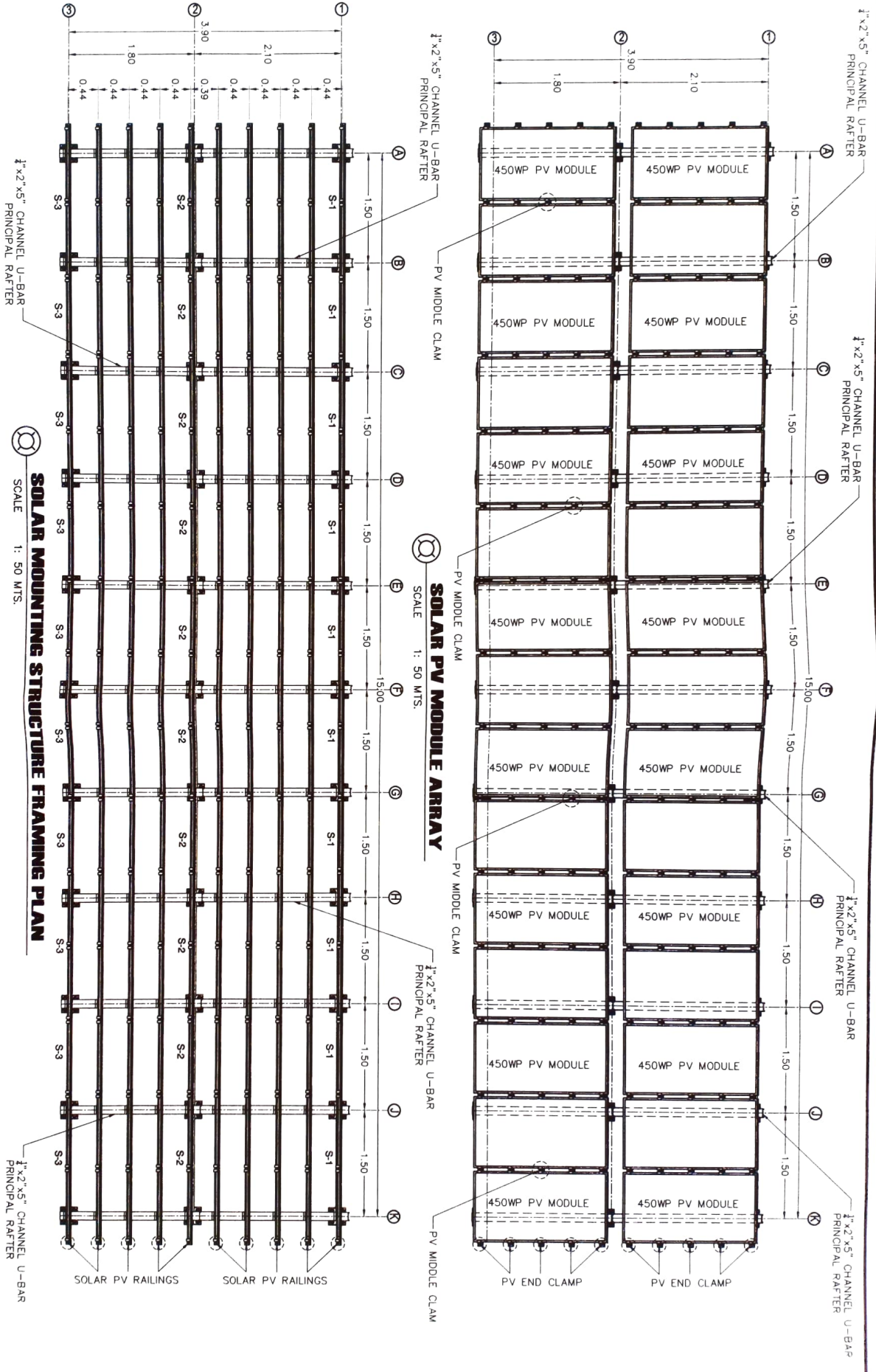
Submitted by:
 CRISTOPHER S. SALCEDO
 Civil Engr. (R)

Recommending Approval:
 LUIZ R. MARCELIANO
 Engr. (R)

Approved by:
 RODEL F. ROJAS
 Engr. (R)

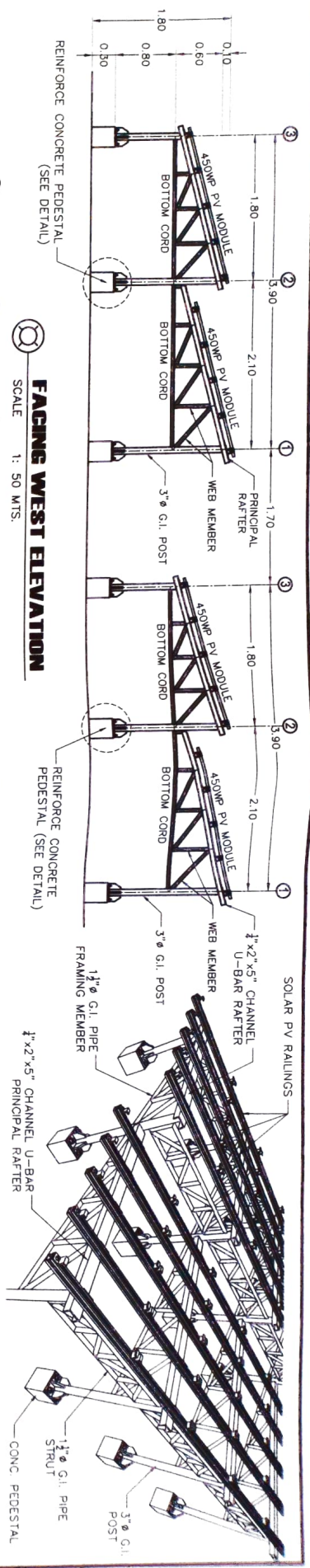
Supply, Delivery, Inst. & Commissioning of Beccod-San Vicente SPS
 BRV, Beccod, Libon, Albay
 AS SHOWN

DATE:	SCALE:
BY:	APPROVED:

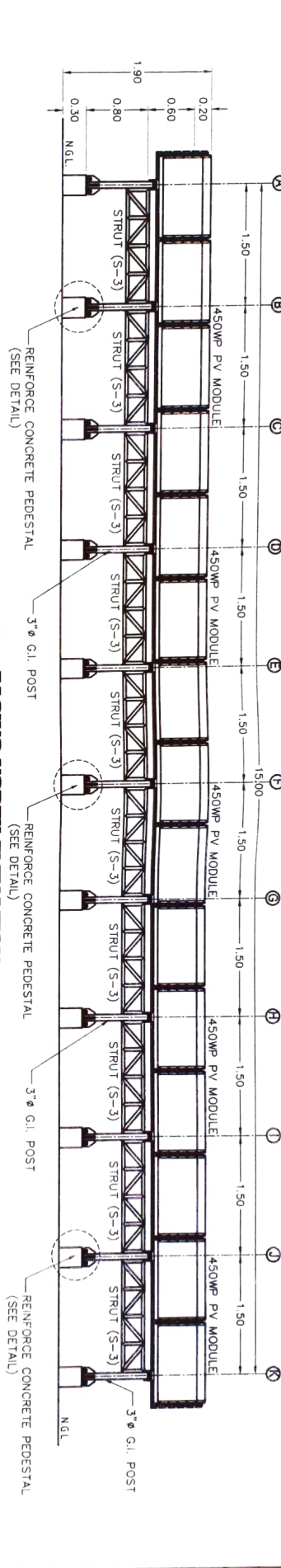


SOLAR MOUNTING STRUCTURE FRAMING PLAN
 SCALE 1: 50 MTS.

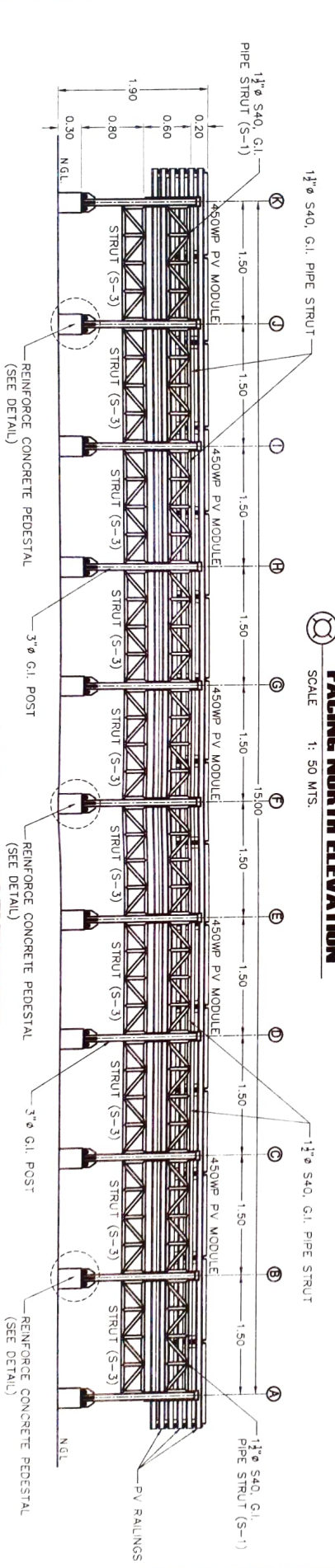
SOLAR PV MODULE ARRAY
 SCALE 1: 50 MTS.



FACING WEST ELEVATION
SCALE 1: 50 MTS.



FACING NORTH ELEVATION
SCALE 1: 50 MTS.

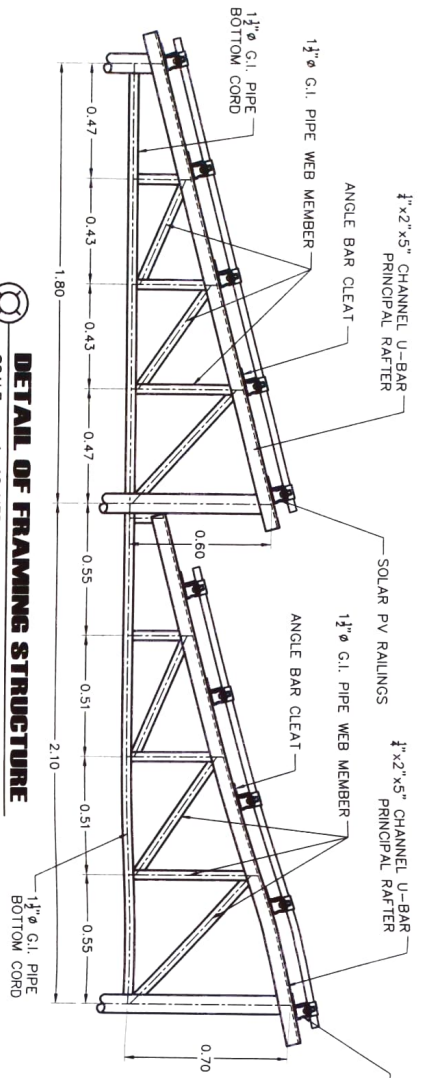


FACING SOUTH ELEVATION
SCALE 1: 50 MTS.

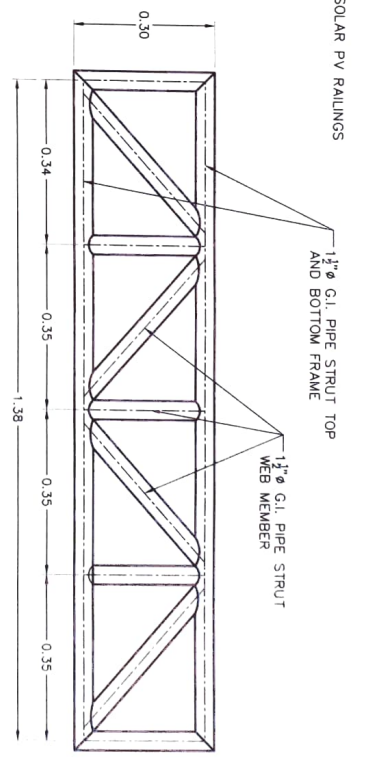


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SAN JOSE, PUL. CAMARINES SUR

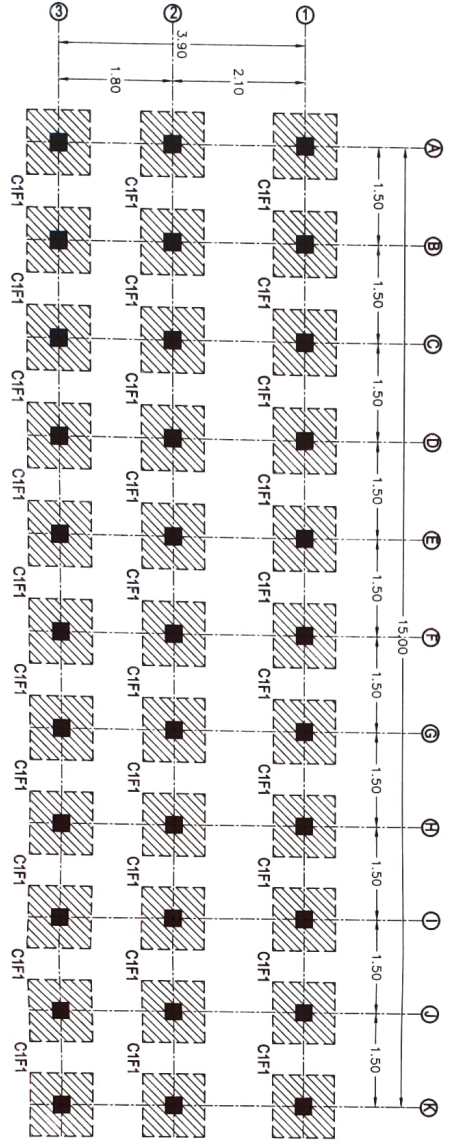
Prepared by: <i>[Signature]</i> BEL JOSEPH D. BORTO Engineer I	Checked by: <i>[Signature]</i> ARTHUR B. MIRA Engineer II	Reviewed by: <i>[Signature]</i> JERRY A. BORDA District Engineer III	Revised by: <i>[Signature]</i> CHRISTOPHER S. SALCEDO Asst. District Engineer	Recommending Approval: <i>[Signature]</i> LIZ B. MARKERLAND TDI for Operations and Maintenance	Approved by: <i>[Signature]</i> RODEL P. JARINUA Regional Administrative Officer	Name of Project: Supply, Delivery, Inst. & Commissioning of Banded-Span Vaseptic SPIS	Location: Brgy. Bantolod, Linao, Albay	DATE: SUBMIT	DATE: APPROVED
AS SHOWN						AS SHOWN			



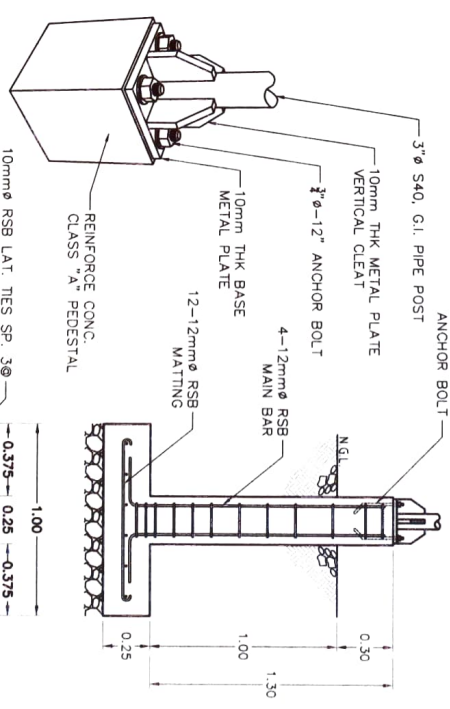
DETAIL OF FRAMING STRUCTURE
SCALE 1: 10 MTS.



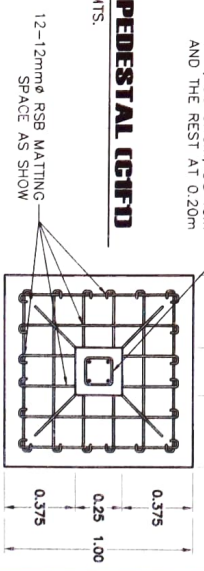
DETAIL OF STRUT (S-1, S-2, S-3)
SCALE 1: 10 MTS.



FOUNDATION PLAN OF PEDESTAL (GF1D)
SCALE 1: 75 MTS.

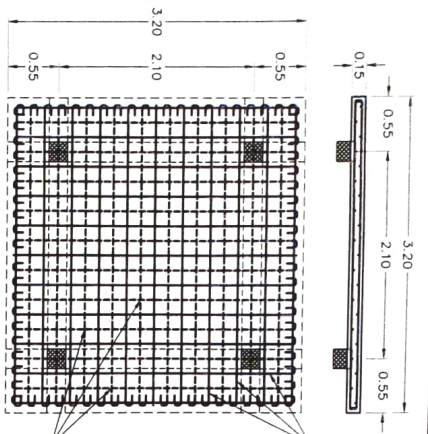


DETAIL OF PEDESTAL (GF1D)
SCALE 1: 25 MTS.

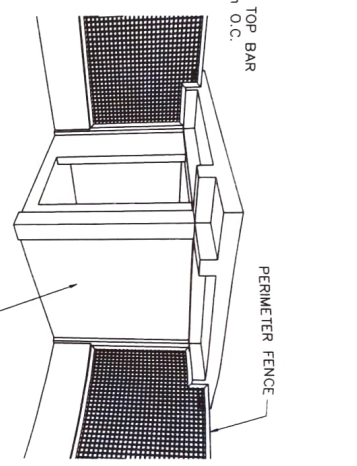


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SAN AGUSTIN, P.L.I., CAMARINES SUR

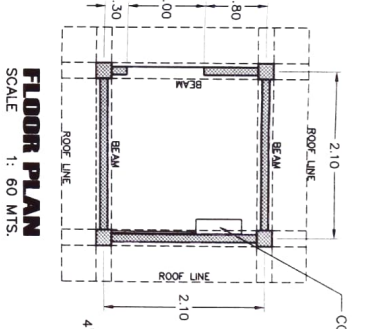
Prepared by: <i>[Signature]</i> BEL JOSEPH D. BONTINO Engineer I	Checked by: <i>[Signature]</i> ANTHONY B. VERA Engineer II	Reviewed by: <i>[Signature]</i> JERRY A. BERONA District In-charge III	Supervised by: <i>[Signature]</i> GILBERT S. SALCEDO Chief (Civil Engr)	Recommending Approval: <i>[Signature]</i> LUZ R. MAACELANG RTO for Operations and Research	Approval by: <i>[Signature]</i> RODEL P. ZERNIL Regional Executive Engineer	Items of Request: Supply, Delivery, Inst. & Commissioning of Baraced-San Vicente SPIS Location: Brgy. Baraced, Libon, Albay Sheet Contents: AS SHOWN	DATE: 2024 SCALE: 1: 75 MTS.
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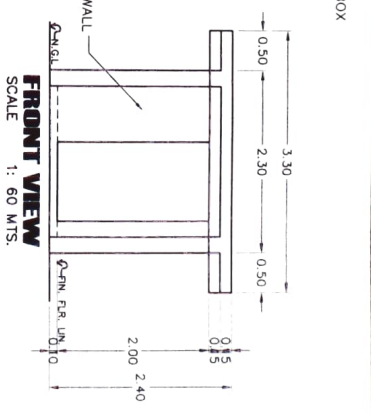
DETAIL OF ROOF SLAB
SCALE 1: 20 MTS.



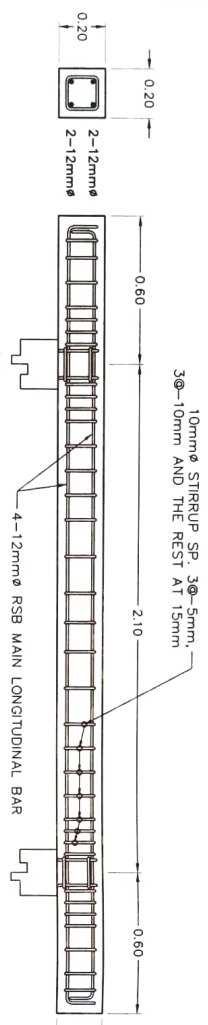
PERSPECTIVE



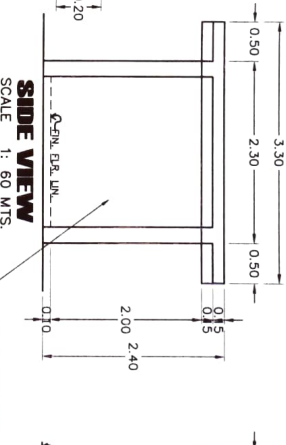
FLOOR PLAN
SCALE 1: 60 MTS.



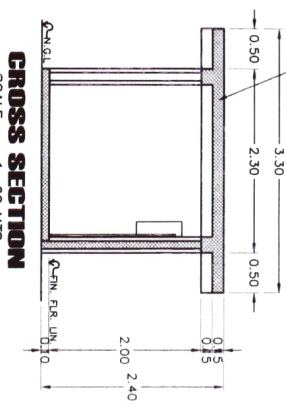
FRONT VIEW
SCALE 1: 60 MTS.



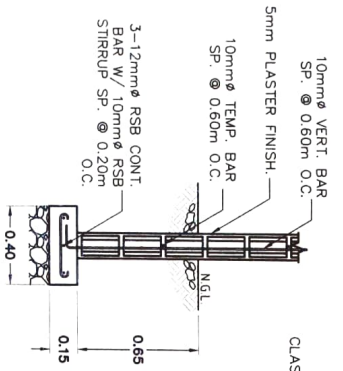
DETAIL OF BEAM
SCALE 1: 20 MTS.



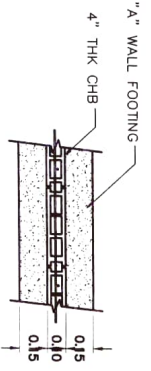
SIDE VIEW
SCALE 1: 60 MTS.



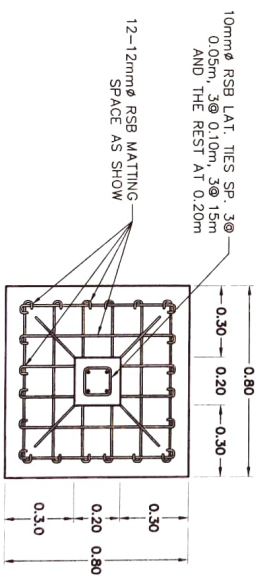
CROSS SECTION
SCALE 1: 60 MTS.



DETAIL OF WALL
SCALE 1: 25 MTS.

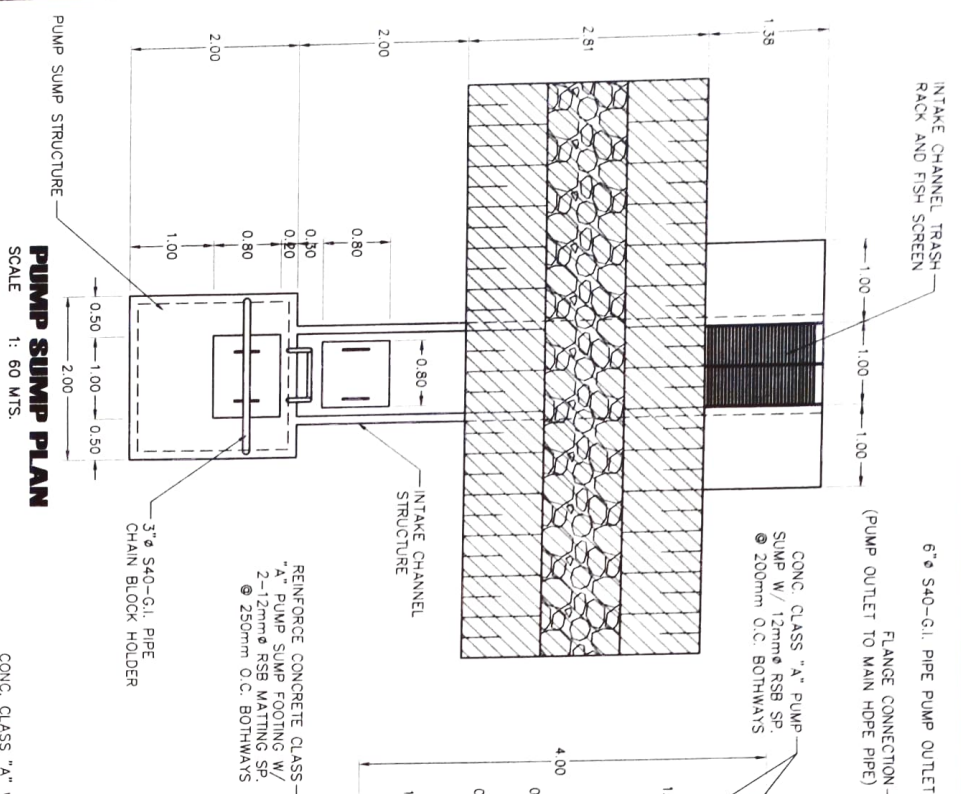


DETAIL OF COLUMN AND FOOTING
SCALE 1: 25 MTS.



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SAN AUSTIN, PULI, CAMARINES SUR

Prepared by: <i>[Signature]</i> BEL JOSEPH D. BONITO Engineer	Checked by: <i>[Signature]</i> APRILYN S. MIRA Engineer II	Reviewed by: <i>[Signature]</i> JERRY A. EBONA Bioss Team Lead III	Submitted by: <i>[Signature]</i> GILBERT S. SALCEDO SP. Chief Field	Recommending Approval: <i>[Signature]</i> LUI R. MARCELINO RTR, Sr. Operations and Engineering	Approved by: <i>[Signature]</i> RODEL P. PERNILIA, IVABE Regional Construction Supervisor	Name of Project: Supply, Delivery, Inst. & Commissioning of Beacod-San Vicente SPS	Location: BRG. Beacod, Ligon, Albay	Date: DATE	Scale: SCALE
Small Contents: AS SHOWN						Drawn by: DATE	Checked by: DATE	Scale: SCALE	Scale: SCALE



DETAIL OF PUMP SUMP AND INTAKE CHANNEL
SCALE AS SHOWN

CONC. CLASS "A" WING WALL W/ 12mm ϕ RSB SP @ 200mm O.C. BOTHWAYS

CONC. CLASS "A" INTAKE CHANNEL W/ 12mm ϕ RSB SP @ 200mm O.C. BOTHWAYS

6" ϕ S40-GI. PIPE PUMP OUTLET (PUMP OUTLET TO MAIN HOPE PIPE)

CONC. CLASS "A" PUMP SUMP W/ 12mm ϕ RSB SP @ 200mm O.C. BOTHWAYS

INTAKE CHANNEL

INTAKE CHANNEL TRASH RACK AND FISH SCREEN

EXISTING RIVER FLOOD CONTROL

MANHOLE

MANHOLE

REINFORCE CONCRETE CLASS "A" PUMP SUMP WALL

REINFORCE CONCRETE CLASS "A" PUMP SUMP FOOTING

FLANGE CONNECTION (OUTLET TO PUMP)

6" ϕ S40-GI. PIPE PUMP OUTLET

3" ϕ S40-GI. PIPE CHAIN BLOCK HOLDER

1 1/2" ϕ G.I. PIPE LADDER

REINFORCE CONC. CLASS "A" WALL

CONC. CLASS "A" INTAKE CHANNEL W/ 12mm ϕ RSB SP @ 200mm O.C. BOTHWAYS

MANHOLE

4-6" ϕ G.I. PIPE ELBOW FOR HOLE INTAKE

INTAKE CHANNEL TRASH RACK AND FISH SCREEN

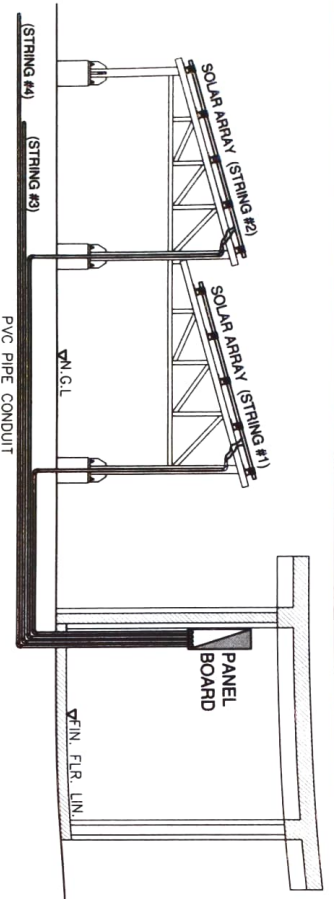
PUMP SUMP

PUMP SUMP

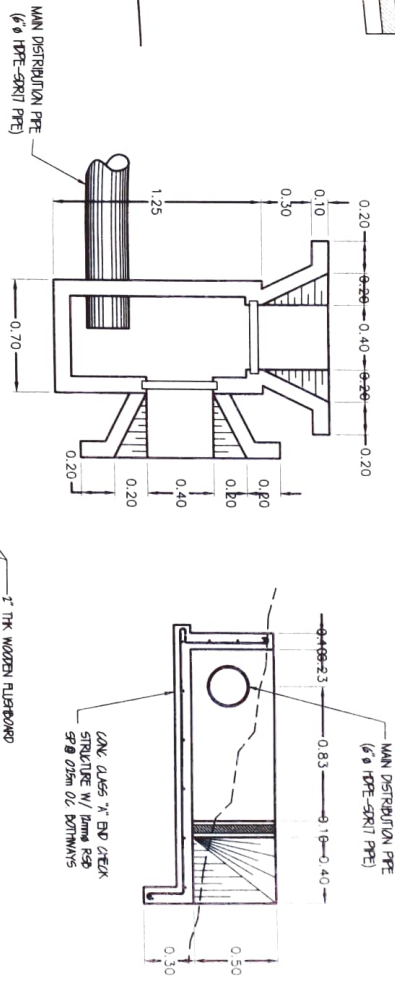
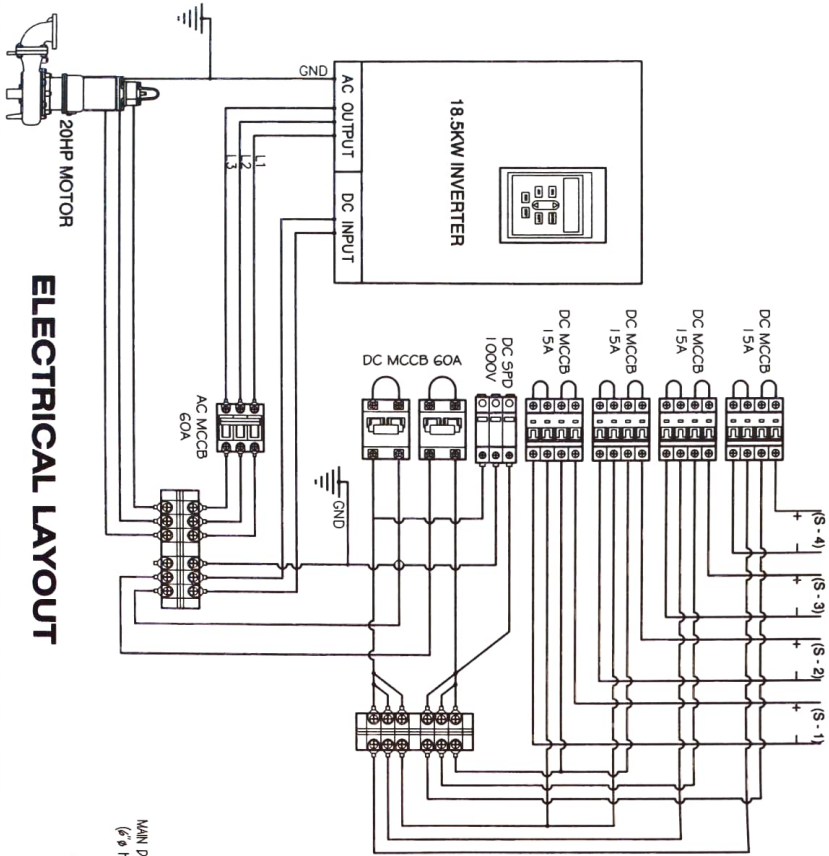
PUMP SUMP

PUMP SUMP

Prepared by:	Checked by:	Reviewed by:	Substituted by:	Reorganizing Approval:	Approved by:	Nature of Project:	Date:
BEL JOSEPH D. BONITO	ARTHUR S. MORA	MARY A. BERONA	GILBERT S. SALCEDO	LIZ R. MARTELINO	RODEL J. CORRAL MARE	Supply, Delivery, Inst. & Commissioning of Bacod-San Vicente SPS	2024
AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN	BRG. Bacod, Libon, Albay	AS SHOWN

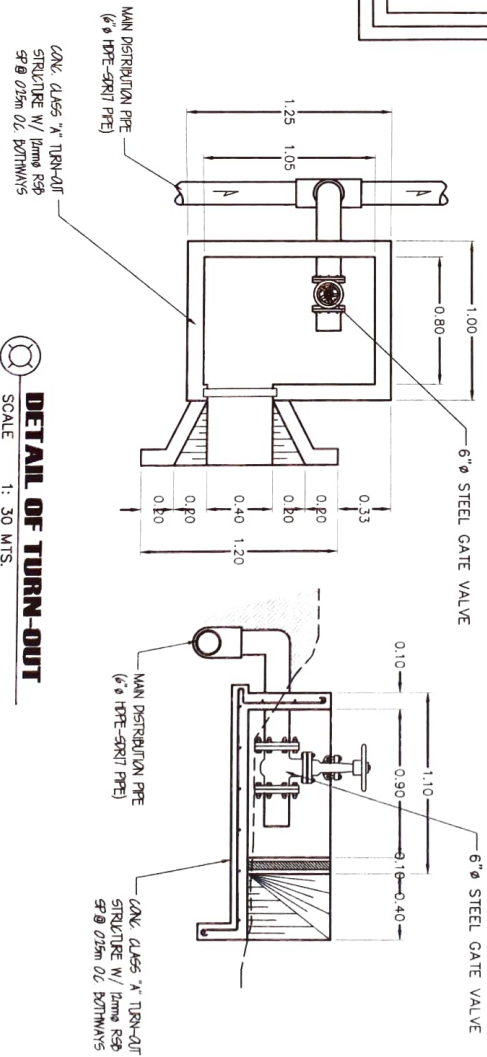


ELECTRICAL PLAN



DETAIL OF PIPE END CHECK

SCALE 1: 30 MTS.



DETAIL OF TURN-OUT

SCALE 1: 30 MTS.

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SAN AGUSTIN, PILI, CAMARINES SUR

Prepared by: *[Signature]*
Checked by: *[Signature]*
Reviewed by: *[Signature]*
Submitted by: *[Signature]*
Recommending Approval: *[Signature]*
Approved by: *[Signature]*

BEL JOSEPH D. BONITO
ARTHUR B. MORA
JERRY A. BRORA
GILBERT S. SALCEDO
LIZB MARCELINO
RODEL P. FORNIA

Engr. I
Engr. II
Engr. III
Agr. Chem. (ASD)
Agr. Chem. (ASD)
Agr. Chem. (ASD)

Supply, Delivery, Inst. & Commissioning of Beceod-San Vicente SPIS

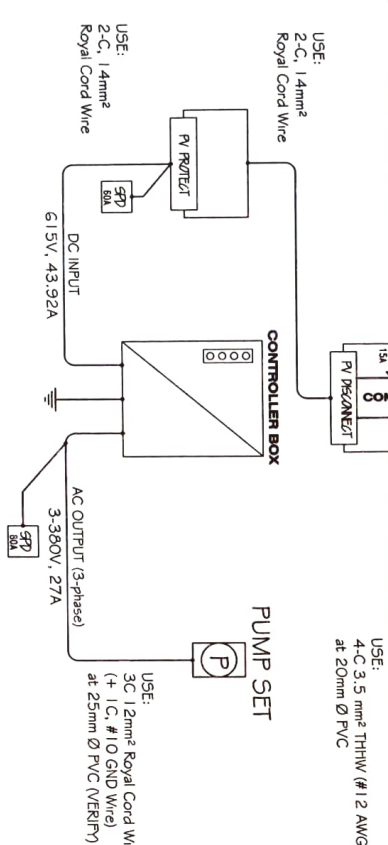
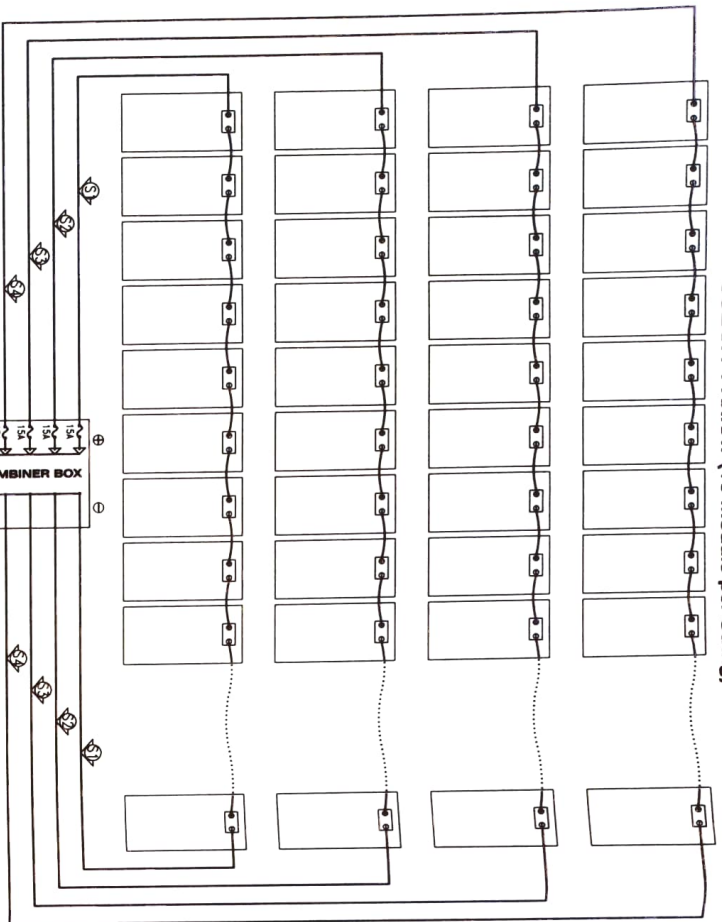
BY: Beceod, Libon, Albay

AS SHOWN

DATE: 02/20/2021

TIME: 02:00PM

SOLAR PV ARRAY (16 Module per String)



SINGLE LINE DIAGRAM

GENERAL NOTE:

- (a) A solar photovoltaic system shall be permitted to supply a building or other structure in addition to any service(s) of another electrically supply system(s)
- (b) Photovoltaic source circuits and photovoltaic output circuits shall not be contained in the same raceway, cable tray, cable, outlet box, junction box, or similar fitting as feeders or branch circuits of other systems unless the conductors of the different systems are separated by a partition or are connected together.
- (c) The connections to a module or panel shall be arranged so that removal of a module or panel from a photovoltaic source circuit does not interrupt a grounded conductor to another photovoltaic source circuit. Sets of modules interconnected as systems rated at 60 volts or less with or without blocking diodes, and having a single overcurrent device shall be considered as a single-source circuit.
- (d) Inverters or motor generators shall be identified for use in solar photovoltaic systems.
- (e) All photovoltaic source and output circuits shall be provided with a ground-fault protection device or system.

- (f) All raceway and cable wiring methods included in this Code and other wiring systems and fittings specifically intended and identified for use on photovoltaic arrays shall be permitted. Where wiring devices with integral enclosures are used, sufficient length of cable shall be provided to facilitate replacement.
- (g) Flexible cords and cables, where used to connect the moving parts of tracking PV modules, shall comply with Article 40 and shall be of a type identified as a hard service cord or portable power cable and shall be suitable for extra-hard usage, listed for outdoor use, water resistant, and sunlight resistant.
- (h) Junction, pull, and outlet boxes located behind modules or panels shall be installed so that the wiring contained in them can be rendered accessible directly or by displacement of a module(s) or panel(s) secured by removable fasteners and connected by a flexible wiring system.
- (i) If a single-phase, 2-wire inverter output is connected to the neutral and one ungrounded conductor (only) of a 3-wire system or of a 3-phase, 4-wire, wye-connected system, the maximum load connected between the neutral and any one ungrounded conductor plus the inverter output rating shall not exceed the ampacity of the neutral conductor.
- (j) All interactive system(s) points of interconnection with other sources shall be marked at an accessible location at the disconnecting means as a power source with the maximum ac output operating current and the operating ac voltage.

LEGEND:

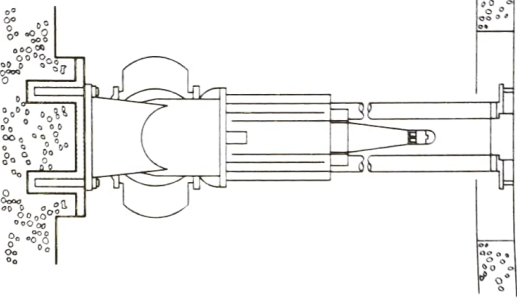
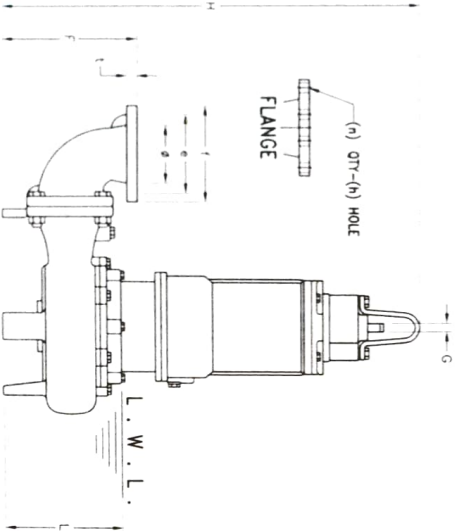
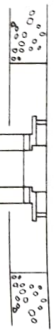
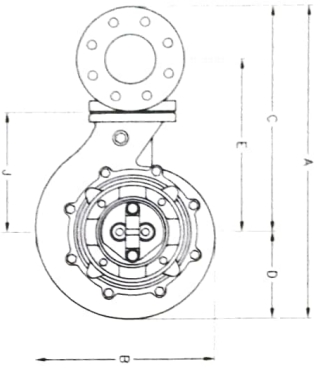
- ~ DC RISE
- ☒ ARRE PROTECTIVE DEVICE
- ☒ SOLAR PUMP INVERTER
- ☒ PUMP SET
- ☒ SOLAR PV MODULE
- ☒ NO. OF STRING (4 MODULE PER STRING)
- ☒ BLOCKING DIODE



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
REGIONAL FIELD UNIT NO. 5
SAN AGUSTIN, PULI, CAMARINES SUR

Prepared by:	Checked by:	Reviewed by:	Submitted by:	Recommending Approval:	Approved by:	Name of Project:	DOB by:
BEL JOSEPH D. BONTINO Engineer I	ANTHONY B. MORA Engineer II	BERRY A. BONA Engineer III	CIRIACITO S. SALCEDO Off. Chmn. SACD	LUIZ R. MARCELIANO Engr. for Operations and Maintenance	RODEL JOYNTA L. MAAB Regional Engineering Supervisor	Supply, Delivery, Install & Commissioning of Bacolod-San Vicente SPIS	DATE: 08/20/2023 DRAWN: 08/20/2023
						Location:	Drawn by:
						Brgy. Bacolod, Libertad, Albay	AS SHOWN

PHASE	SIZE	OUTPUT					PUMP AND MOTOR								FLANGE (ANSI 125 PSI F.F.)								UNIT
		KW	HP	A	B	C	D	E	F	G	H	J	L	Ø	e	f	t	n	h				
THREE	6	15	20	28.543	15.623	20.948	7.596	15.466	14.370	0.313	36.374	9.984	12.529	6	9.50	11	1	8	0.875				
	150			729	399	535	194	395	367	8	929	255	320	150	241	279	25	8	22				



DESIGN PARAMETER

Computed Water Duty	141.0 cum./day/ha - 2.0 li./sec/ha
Target Rice Area	30 hectares
Pump Flow Requirement (5hrs Solar Pump Operation)	65 liters/sec - 234 cum./hr
Total Dynamic Head	15.0 meters
Total pipe length	600 meters
Total static head	4.0 meters
Friction loss	1.444 m/100 m pipe length
Motor Rating	15 kW (20HP, 3-Phase, 380-415V, 34A)
Inverter Size	18.50 KW, 300V-900V DC INPUT, 37Amp
No. of Solar PV Module	60pcs, 450Wp-(41.00 Vmp, 10.98 Imp)

LOAD SCHEDULE & COMPUTATIONS

Ckt. NO.	LOAD DESCRIPTION	VOLT	CURRENT	CIRCUIT BREAKER			CONDUCTOR		CONDUIT (mm)
				AT	POLE	NO. OF C	SIZE	INSULATOR	
1	OFF GRID SOURCE -4 SPRING- (41.0V, 10.98A)	615	10.98	15	1	4	3.5 mm ²	THHW	20 mm ^Ø
2	INVERTER DC Input: 300V-900V	615	43.92	60	2	2	25.0 mm ²	THHW	32 mm ^Ø
3	15KW MOTOR	380-415	34	60	3	3	25.0 mm ²	THHW	32 mm ^Ø

COMPUTATIONS :
 $I_F = 10.984 \times 4 = 43.92 \text{ AMPS}$ FOR PV PROTECTOR
 $I_F = 43.924 \times 1.25(\text{SF}) = 54.90 \text{ AMPS}$ FOR SURGE PROTECTOR
 $I_F = 34A \times 250\% = 85 \text{ AMPS}$ FOR MOTOR SPD
 USE : 25mm² Cable Wire #4-25mm² AWG IN 25mm^Ø PVC BOAT, 3P, 415V, Ckt BREAKER

SUBMERSIBLE PUMP DETAIL



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Prepared by

REYNOLDO BRANTO

Checked by

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OLIVER S. SUCERO

Recommending Approval

LUIZ M. MATEO

Approved by

ROSEL P. FABIAN, A. MAHE

Name of Project

Supply, Delivery, Inst. & Commissioning of Backlog-San Victoria SPS

Location

Brgy. Bacod, Libon, Albay

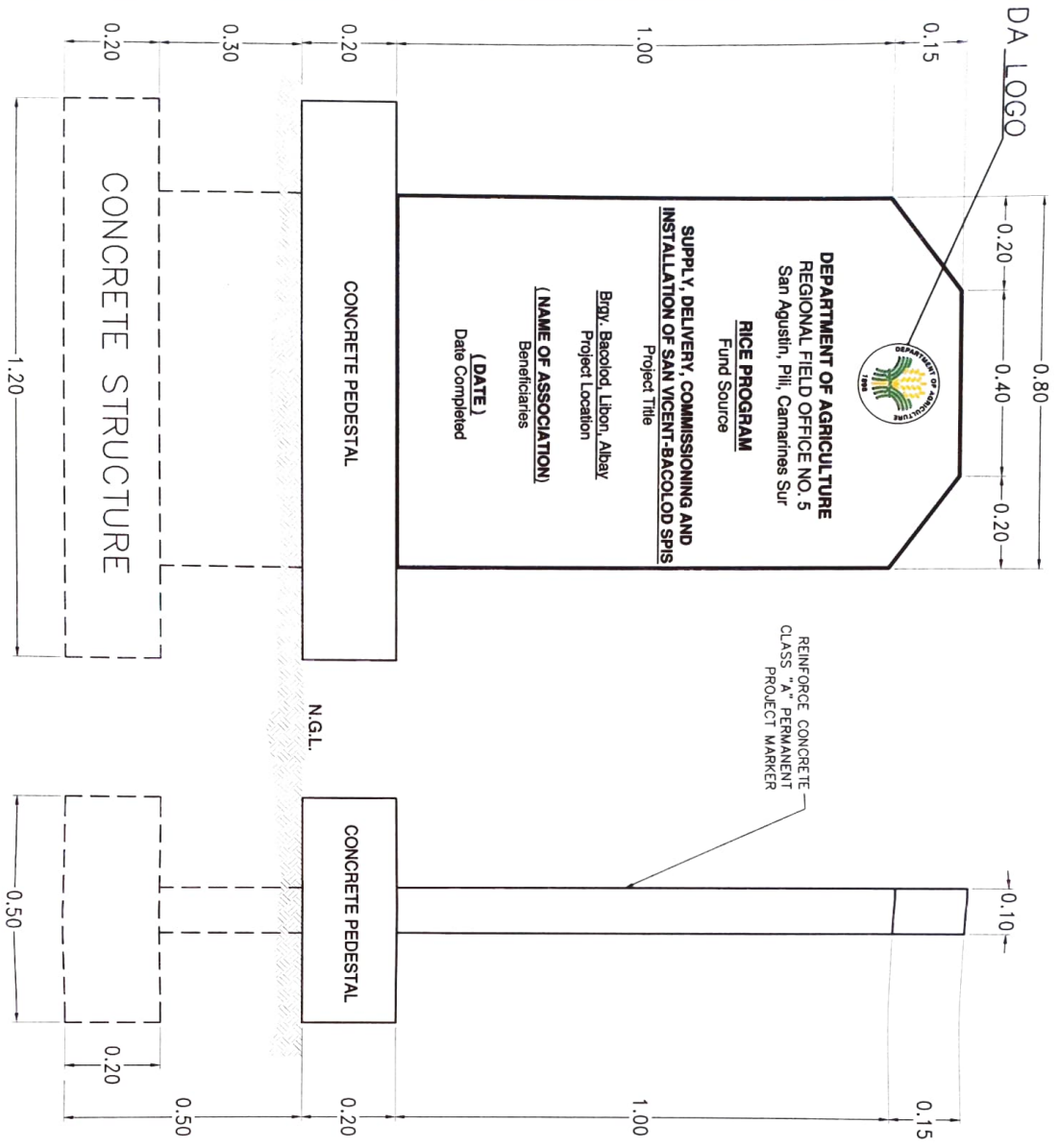
Date

08/20/2011

Scale

AS SHOWN

NEW CONCRETE MARKER OF RICE PROGRAM PROJECT
SCALE: 1:10m.



- NOTE:**
- PROVIDE CEMENT PLASTER FINISH ON BOTH FACES.
 - CONCRETE MARKER SHOULD BE FINISH COATED WITH WHITE EMULS. PAINT.
 - ALL PROJECT INFORMATION AS INDICATED SHOULD BE WRITTEN IN NEAT AND CLEAR MANNER.
 - BE SPECIFIC WITH THE SPELLING OF THE INDICATED NAME OF PERSONS AND THEIR RESPECTIVE DESIGNATION.



<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE REGIONAL FIELD UNIT NO. 5 SAN AGUSTIN, PULI, CAMARINES SUR</p>	Prepared by:	Checked by:	Reviewed by:	Submitted by:	Recommending Approval:	Approved by:	Name of Project:	DATE:
	 BEL SIBERT D. BONTO Engineer I	 APRIAN B. MIRA Engineer II	 JERRY A. ERONA Erosas Team Lead III	 GILBERT S. SALCEDO Off. Chief, RASD	 EUIZ R. MARCEHINO RFD, Off. Operations and Training	 RODEL P. FORNUIL Regional Extension Officer	Supply, Delivery, Inst. & Commissioning of Bacolod-San Vicente SPIS	02/2021
							Location:	Drawn by:
							Brgy. Bacolod, Libon, Albay	AS SHOWN