



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
WESTERN VISAYAS
PAROLA, ILOILO CITY

DETAILED ENGINEERING DESIGN PLANS
ESTABLISHMENT OF SIGNE
SOLAR-POWERED IRRIGATION SYSTEM
(HVCDP 2025)

BRGY. SIGNE, IGBARAS, ILOILO

Submitted:


MOISES D. MANAY-AY, ABE
Engineer V (License No. 00066771)
Chief, R/ED

Recommended:


MARIA TERESA P. SOLIS
OIC/RTD for Operations

Approved:


DENNIS R. AFPJA
Regional Executive Director

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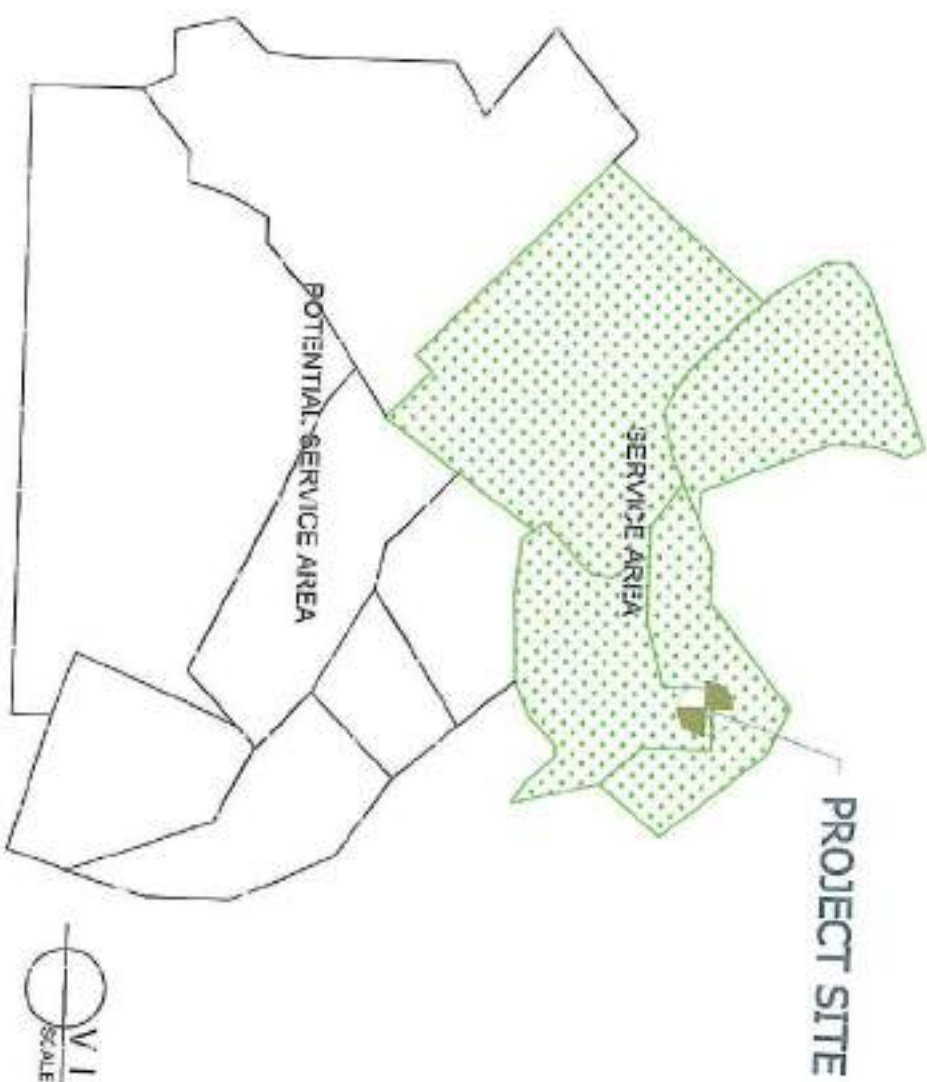
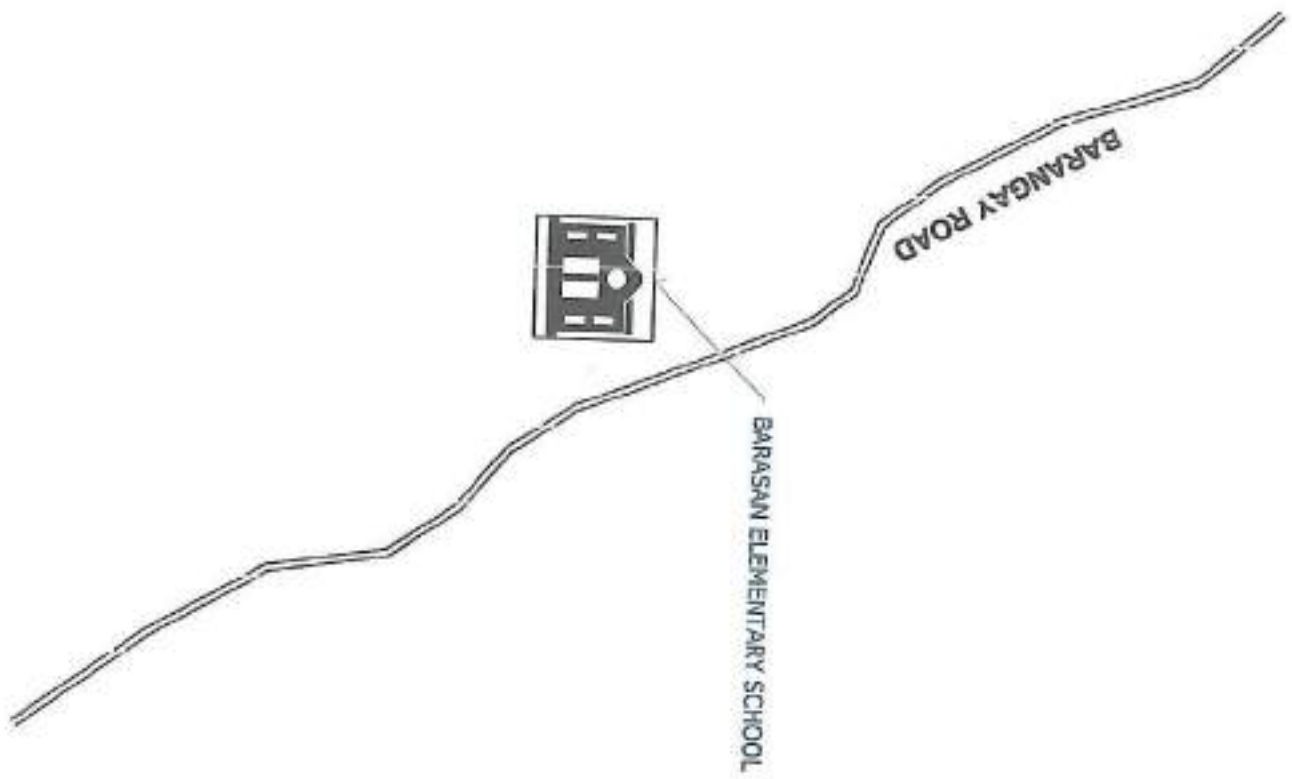


PERSPECTIVE VIEW

TECHNICAL DATA

PUMP: 1 UNIT 6HP SUBMERSIBLE PUMP
INVERTER/CONTROLLER: 1 UNIT 4KW
SOLAR PANEL: 30 SOLAR MODULES (550 WATT-PEAK/MODULE)
TOTAL POWER: 5,500 watt-peak
CONVEYANCE:
 10 meters - 3" dia. HDPE PIPE, SDR 11 (PE100)
 from Pump to Tank
 132 meters - 3" dia. HDPE SDR 17 (PE100)
 Distribution Pipe
SERVICE AREA: 3 ha.
DISCHARGE: 40.22 cum./hr

| Item No. | Scope of Work | Quantity | Unit |
|----------|--|----------|------|
| 101 | TEMPORARY FACILITY | 1.00 | sq |
| 102 | PROJECT MARKER & SIGNBOARD (FILLBOARD 114" x 48" and 180") | 1.00 | sq |
| 103 | MOBILIZATION/DEMOLITION | 1.00 | sq |
| 104 | WELL DEVELOPMENT (well, gravel, pump setting) | 1.00 | sq |
| 105 | SOLAR PUMP/INVERTER/CONTROLLER STRUCTURE | 1.00 | sq |
| 106 | STRUCTURE EXCAVATION (TOP) | 2.00 | sq |
| 107 | FOUNDATION (PEDESTAL) | 2.00 | sq |
| 108 | LEVELING COURSE | 2.00 | sq |
| 109 | REINFORCING STEEL BARS | 2.00 | sq |
| 110 | CONCRETE FOUNDATION (PEDESTAL) (class B) | 2.00 | sq |
| 111 | STRUCTURE BACKFILL | 2.00 | sq |
| 112 | SOLAR POWER MODULE MOUNTING STRUCTURE | 2.00 | sq |
| 113 | SOLAR POWER MODULES (Monocrystalline-550 watt-peak) | 2.00 | sq |
| 114 | INVERTER & CONTROLLER - 4KW | 1.00 | sq |
| 115 | SOLAR PUMP (SUBMERSIBLE) - 4HP | 1.00 | sq |
| 116 | INVERTER & CONTROLLER BOX | 1.00 | sq |
| 117 | ELEVATED TANK | 1.00 | sq |
| 118 | STRUCTURE EXCAVATION | 2.00 | sq |
| 119 | CONCRETE WORKS (class A) | 2.00 | sq |
| 120 | REINFORCING STEEL BAR | 2.00 | sq |
| 121 | SPRINT STORAGE TANK METAL FRAME | 2.00 | sq |
| 122 | INSTALLATION OF WATER TANK, PIPES, VALVES & FITTINGS | 2.00 | sq |
| 123 | STRUCTURAL BACKFILL | 2.00 | sq |



VICINITY MAP
SCALE: 1:50,000

NATIONAL ROAD

ESTABLISHMENT OF
ABILAY SUR SPIS
BRGY. ABILAY SUR, OTDN,
ILOILO

VICINITY MAP

Christine D. Villaverde
LOCAL GOVERNMENT REPRESENTATIVE
CHRISTINE D. VILLAVERT, ABE
LOCAL GOVERNMENT REPRESENTATIVE

Yvonne Grace Alcaraz
LOCAL GOVERNMENT REPRESENTATIVE
YVONNE GRACE ALCAZAR, ABE
LOCAL GOVERNMENT REPRESENTATIVE

Maries D. Maanay
LOCAL GOVERNMENT REPRESENTATIVE
MARIES D. MAANAY, ABE
LOCAL GOVERNMENT REPRESENTATIVE

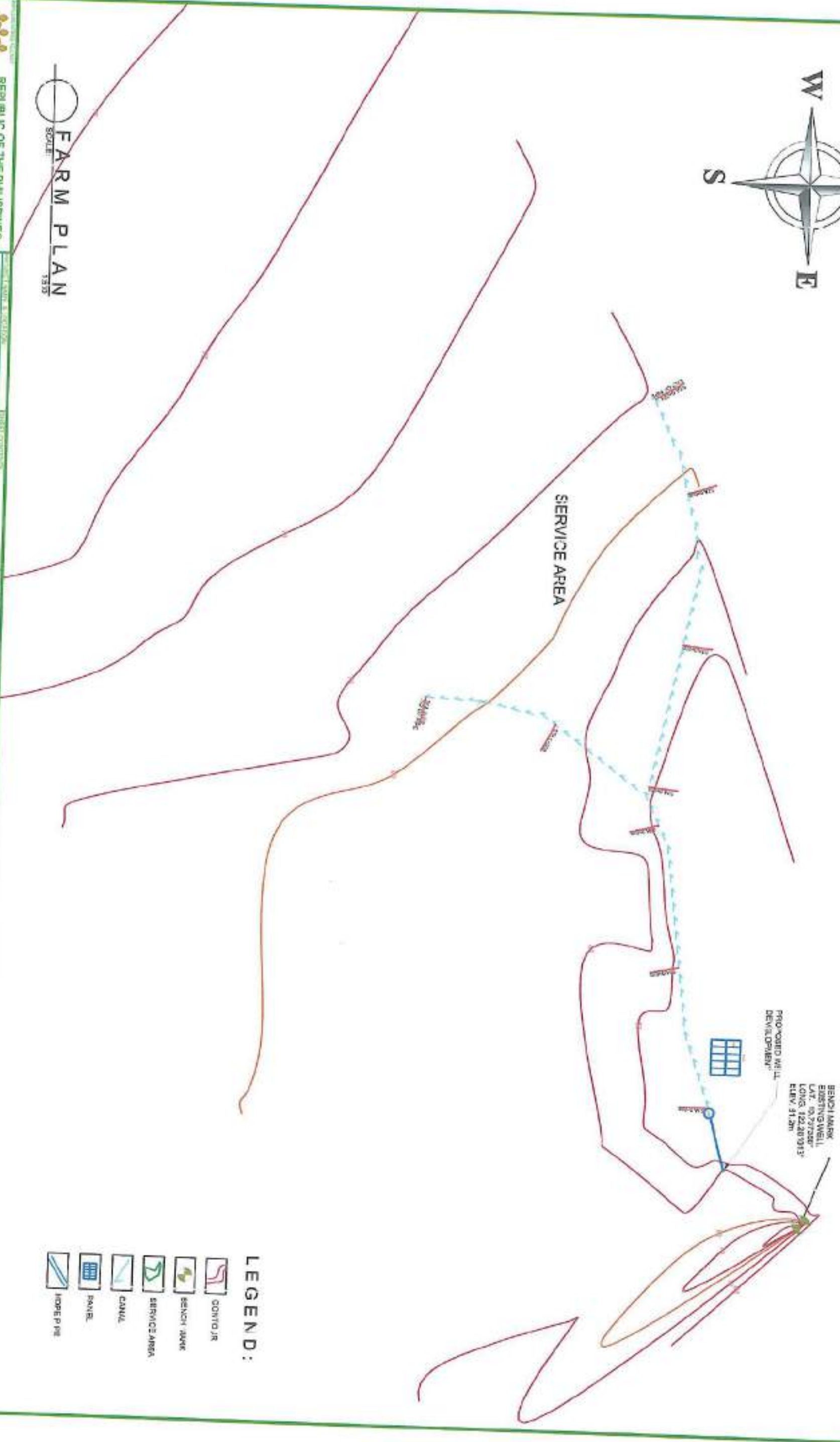
MARIA TERESA T. SOLIS
DISTRICT SUPERVISOR

Donna Aspia
LOCAL GOVERNMENT REPRESENTATIVE
DONNA ASPIA, ABE
LOCAL GOVERNMENT REPRESENTATIVE



FARM PLAN
SCALE: 1:500

- LEGEND:**
- CONTOUR
 - BENCH MARK
 - SERVICE AREA
 - CANAL
 - PAVED
 - HOPE P. PIT



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ESTABLISHMENT OF
ABILAY SURSIS

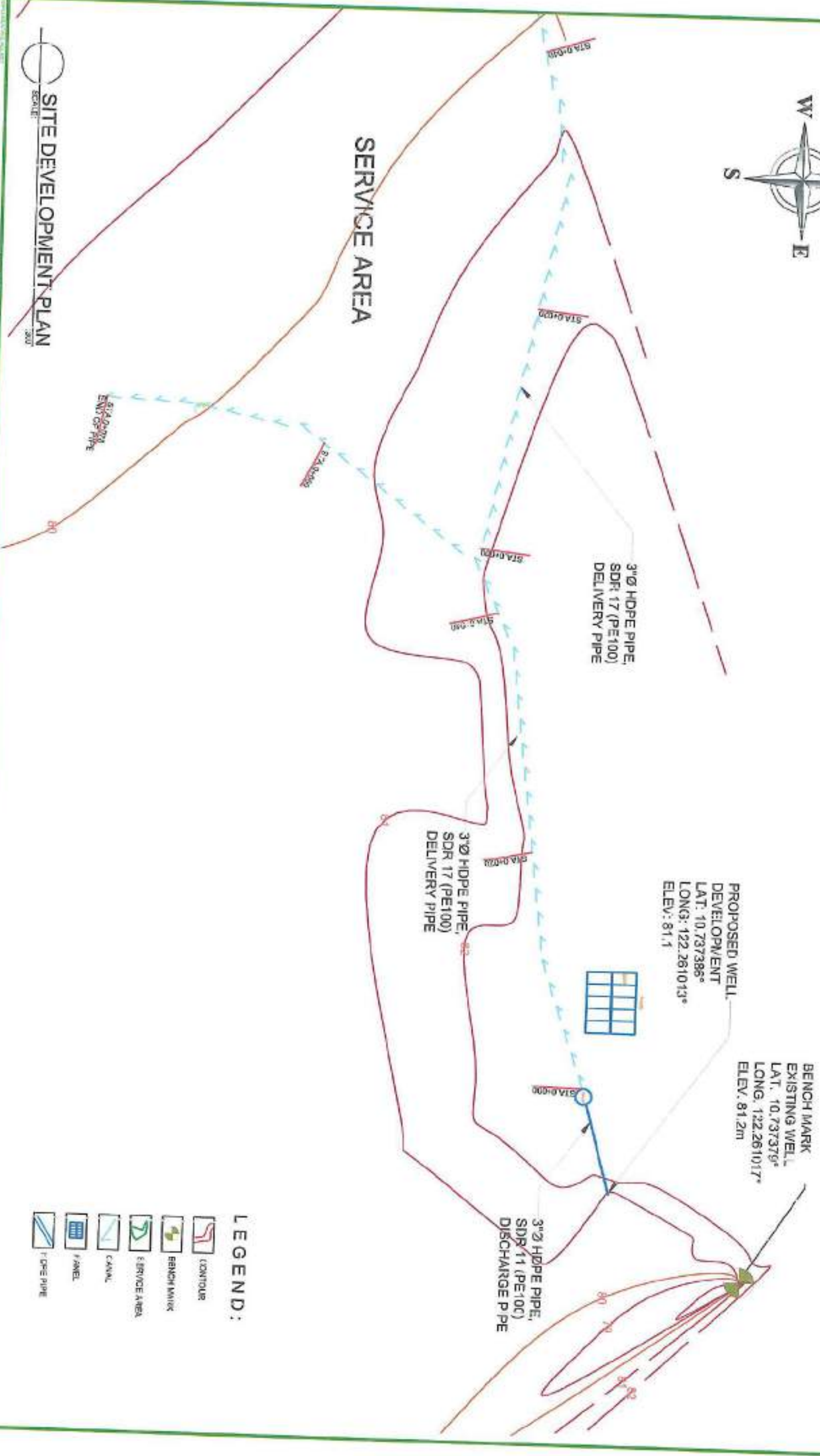
BRGY. ABILAYSUR, OTDM,
ILOILO

CHRISTINE WILLANUEVA ABE

MANILA TERRAZA T. SOLIS

DEV. OFF. 3

3



SITE DEVELOPMENT PLAN
SCALE: 1:200

- LEGEND:**
- CONTOUR
 - BENCHMARK
 - SERVICE AREA
 - CANAL
 - PANEL
 - DELIVERY PIPE



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PANOLA, ILOILO CITY

ESTABLISHMENT OF
ABLAY SURSIPS

BRGY. ABLAY SUR, OTON,
ILOILO

DESIGNED BY
CHRISTINE D. WILLAMUE, ABE

CHECKED BY
YVES M. GRANADO, ABE

APPROVED BY
MARIA TERESA T. SOLIS

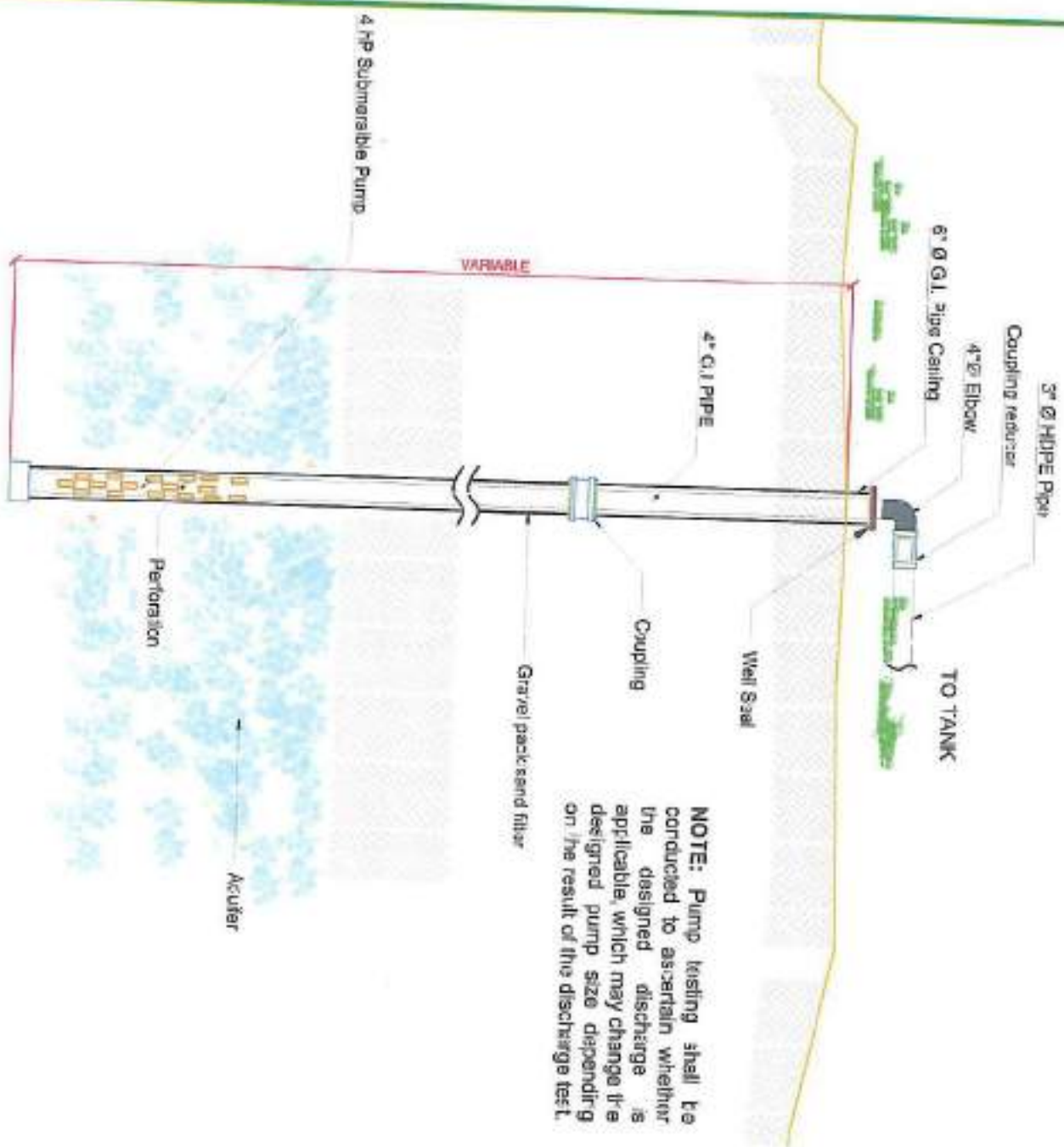
DATE
OCTOBER 2023

PROJECT NO.
A

DATE
OCTOBER 2023

PROJECT NO.
A

DATE
OCTOBER 2023

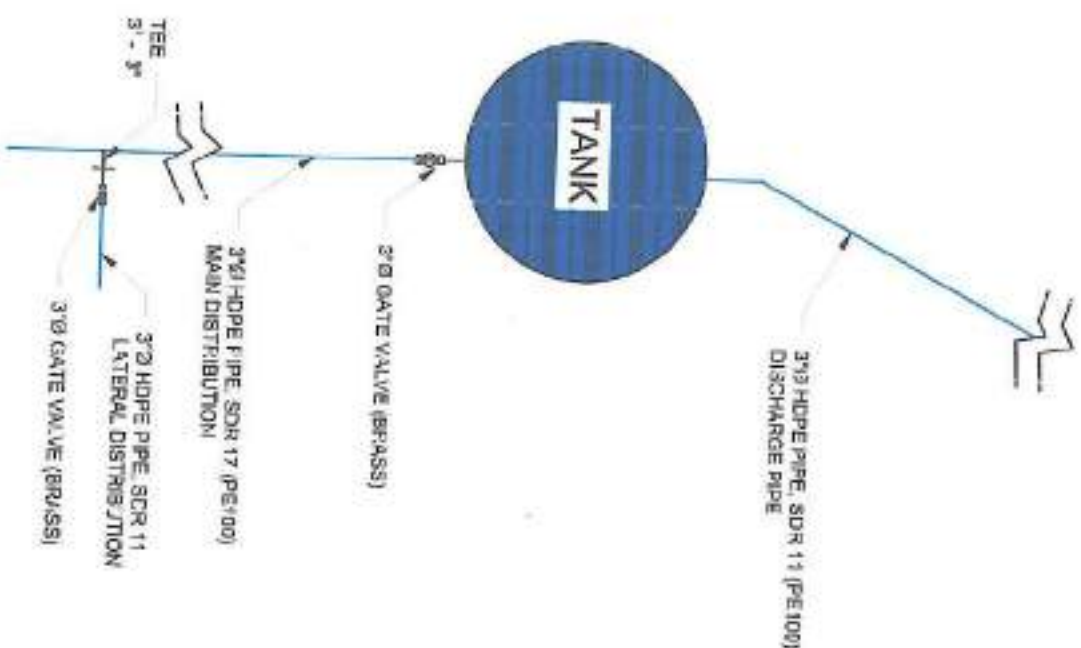


NOTE: Pump testing shall be conducted to ascertain whether the designed discharge is applicable, which may change the designed pump size depending on the result of the discharge test.

| | | |
|---|---|---------------------|
| Ø | — | GATE VALVE THREADED |
| H | — | TEE |
| — | — | HDPE PIPE |

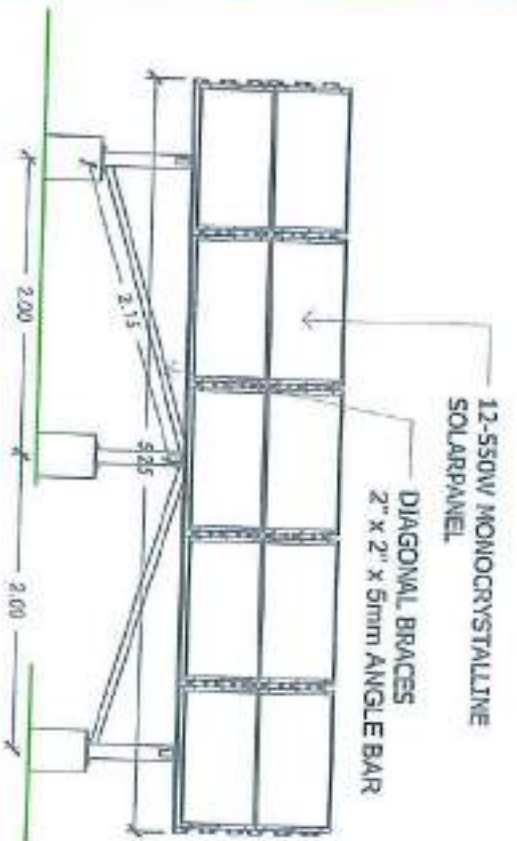
LEGEND

NOTE:
 Discharge Pipe - 3"Ø HDPE Pipe SDR 11 PE100, Irrigation Pipe (30 meters)
 Delivery Pipe - 3"Ø HDPE Pipe SDR 17 PE100, Irrigation Pipe (150 meters)
 with 1 pieces - 3"Ø Gate Valve (Brass).

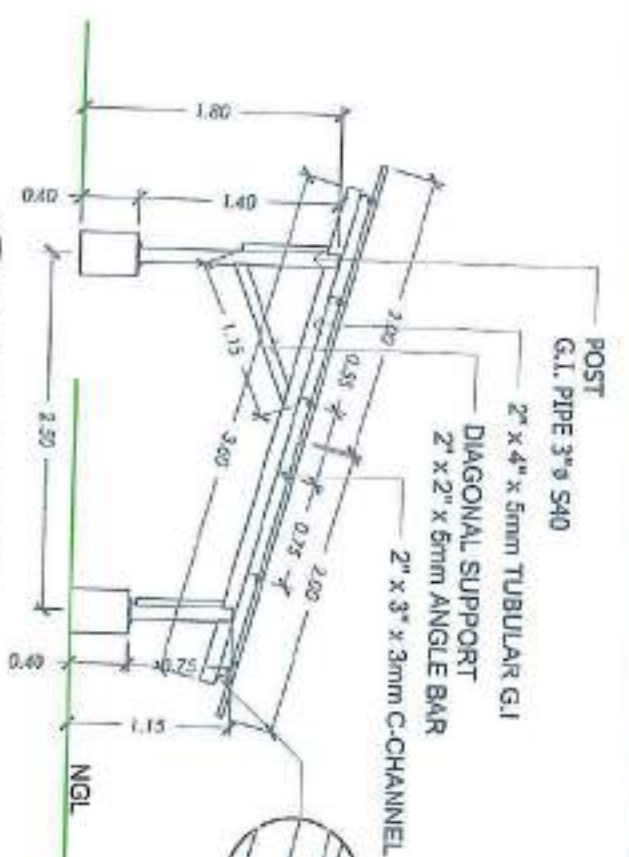


TYPICAL WELL DESIGN
 SCALE: 1" = 5'

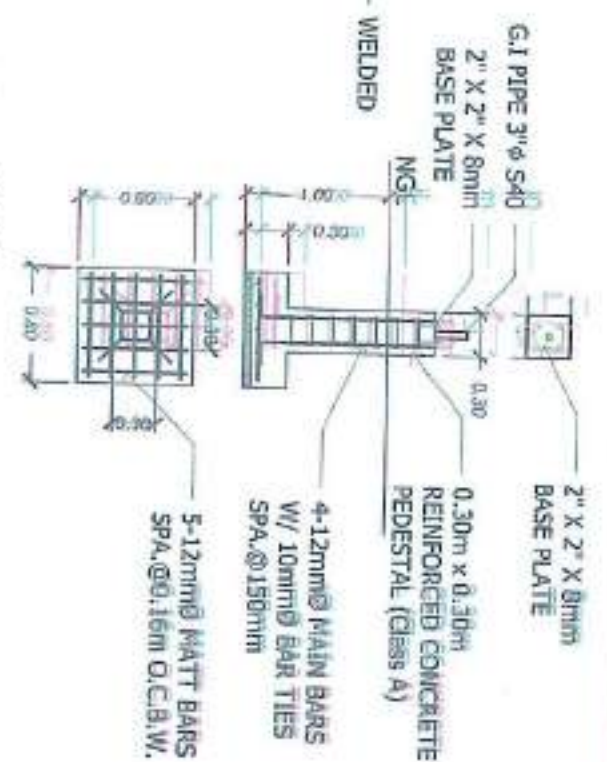
DISTRIBUTION PLAN
 SCALE: 1" = 5'



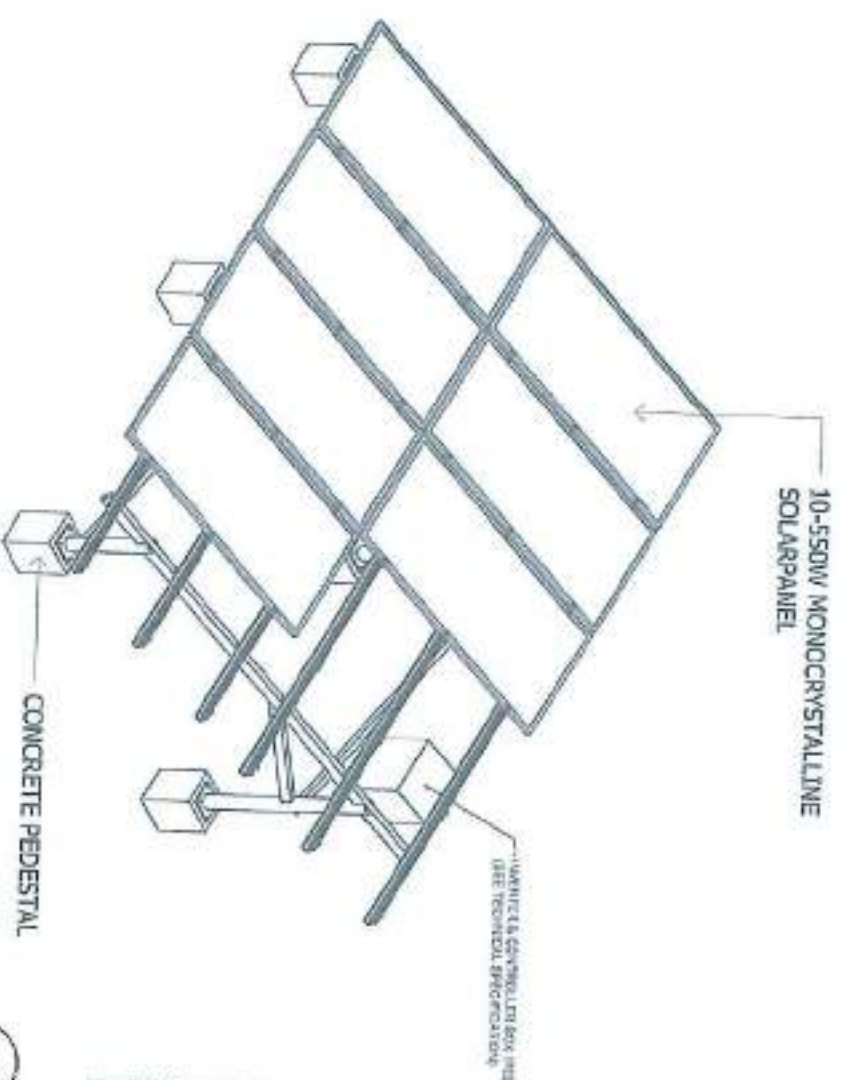
FRONT ELEVATION
SCALE: 1:50



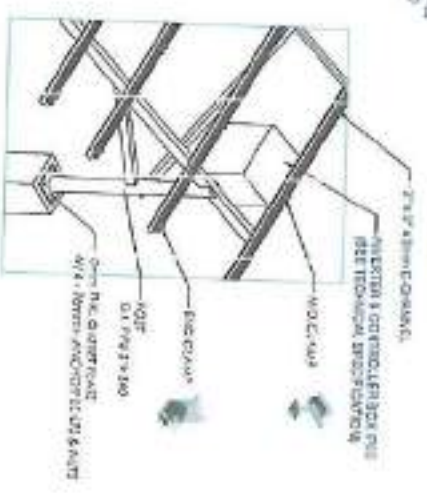
SIDE ELEVATION
SCALE: 1:50



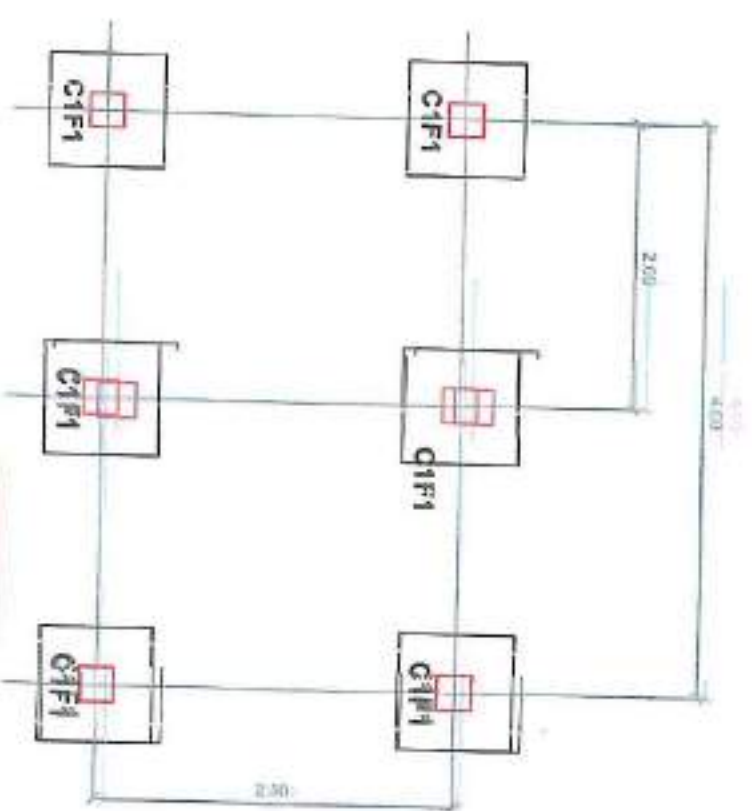
CONCRETE PEDESTAL DETAIL
SCALE: 1:50



ISOMETRIC VIEW
SCALE: 1:50



BLOW-UP SECTION THRU A
SCALE: 1:50



FOUNDATION PLAN
SCALE: 1:50

NOTE:
C1F1 - PV ARRAY

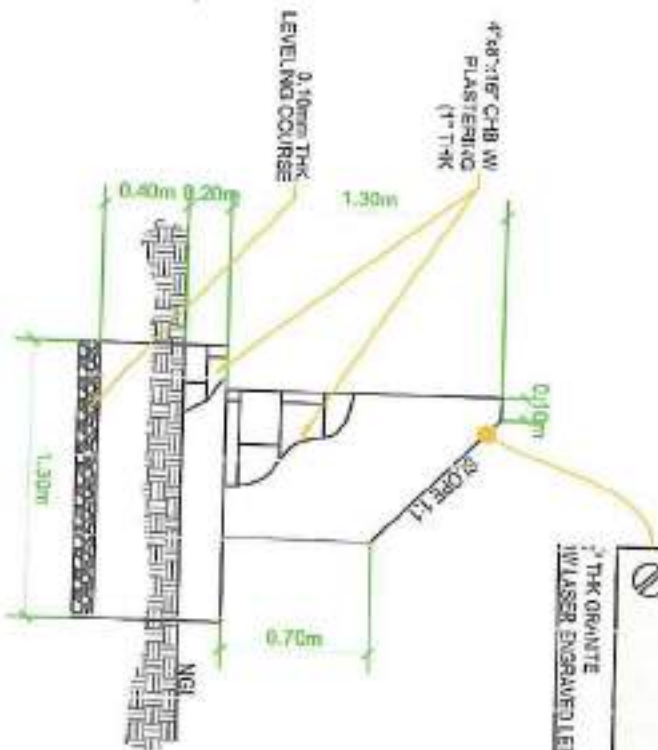


Location

DEPARTMENT OF AGRICULTURE FIELD OFFICE W



THE BILLBOARD SHALL BE INSTALLED IN FRONT OF THE PROJECT SITE



| NAME OF PROJECT | STATUS: NEW OR EXISTING |
|-----------------|-------------------------|
| LOCATION | HOW MANY JOBS WILL BE |
| PLANNED SOURCE | MADE IN 2005 |
| WORTH/ANNUAL | |
| SERVICE AREA | |
| WORTH/ANNUAL | |

WILSON, JAMES

FUN! COLOR: BLACK

2000

[illegible]

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ESTABLISHMENT OF
ABILAY SURSPIS

- PROJECT MARKER & SIGNBOARD
- COA ELLBOARD
- PROJECT SIGNBOARD
- PROJECT MARKER

Christine A. Milaneva
CHRISTINE A. MILANEVA, ABCE
2016-2017
Regency - 2016-2017

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CHIT SING

MARIA TERESA T. SOLIS
DIRECTOR, Compliance

DEWIL & ORPPIA

