



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

DETAILED ENGINEERING DESIGN PLANS

**ESTABLISHMENT OF POBLACION ILAYA SOLAR- POWERED
IRRIGATION SYSTEM (SPIS)**

Brgy. Poblacion, Ilaya, Dao, Capiz

DA- CORN PROGRAM (2023)

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Approved by:

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Director III
OIC- Regional Executive Director

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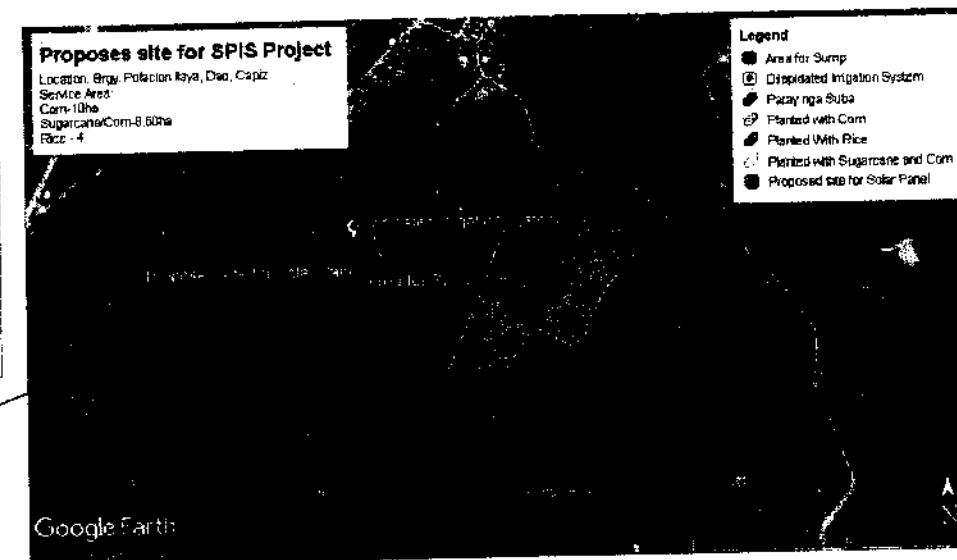
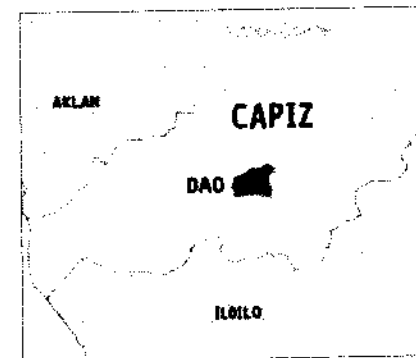
Item No.	Scope of Works	Quantity	Unit
I.	GENERAL ITEM		
SPL1	TEMPORARY FACILITY	1.00	lot
SPL2	PROJECT SIGNBOARD (1-4'x8'), COA BILLBOARD (1-8'x8'), AND PROJECT MARKER	1.00	lot
SPL3	MOBILIZATION/DEMOLITION	1.00	lot
II.	SOLAR PUMP/ PV ARRAY MOUNTING STRUCTURE		
803	STRUCTURE EXCAVATION (FOR FOUNDATION/PEDESTAL)	4.12	cu.m
404	REINFORCING STEEL BARS	592.00	kg
414	FORMWORKS	49.00	sq.m
406	CONCRETE WORKS (2400 psi)	4.12	cu.m
1706	STRUCTURE BACKFILL	2.94	cu.m
SPL4	SOLAR POWER MODULE MOUNTING STRUCTURE	1.00	lot
SPL5	SOLAR POWER MODULES (21,600 WP)	72.00	unit
SPL6	INVERTER & CONTROLLER (24 HP)	1.00	unit
SPL7	SOLAR PUMP (SUBMERSIBLE, 15 HP)	1.00	unit
III.	POWER HOUSE		
803	STRUCTURE EXCAVATION	1.45	cu.m
414	FORMWORKS	97.13	sq.m
406	CONCRETE WORKS (2400 psi)	2.01	cu.m
404	REINFORCING STEEL BARS	483.86	kg
704	3 MASONRY	16.45	sq.m
1027	PLASTERING	32.90	sq.m
1708	LEVELING COURSE	1.20	cu.m
403	PRE-FABRICATED DOOR	1.00	lot
1706	STRUCTURAL BACKFILL	0.25	cu.m
1032	PAINTING WORKS (WITH RUBBERIZED DA- WESTERN VISAYAS LOGO)	32.90	sq.m
IV.	INTAKE, SUMP, CONCRETE STEPS, STILLING POOL, AND DISTRIBUTION CANAL		
1700	SITE CLEARING AND GRUBBING	60.15	sq.m
803	STRUCTURE EXCAVATION	1,552.25	cu.m
1706	STRUCTURE BACKFILL	590.02	cu.m
414	FORMWORKS AND SCAFFOLDINGS	1,077.45	sq.m
406	CONCRETE WORKS (3000 psi)	92.41	cu.m
404	REINFORCING STEEL BARS	4,258.30	kg
1708	LEVELING COURSE	13.00	cu.m
1710	GROUTED RIPRAP	38.90	cu.m
SPL8	TRASHRACK	4.59	sq.m
1718	PVC PIPE (WEEP HOLES WITH GRAVEL FILTER)	1.00	lot
V.	PERIMETER FENCE		
800X1	SITE CLEARING AND GRUBBING	60.15	sq.m
803	STRUCTURE EXCAVATION	1.73	cu.m
1706	STRUCTURE BACKFILL	1.00	cu.m
414	FORMWORKS	13.00	sq.m
406	CONCRETE WORKS (2000 psi)	1.13	cu.m
404	REINFORCING STEEL BARS	35.00	kg
1708	LEVELING COURSE	0.45	cu.m
403	STRUCTURAL STEEL	1.00	lot
1032	PAINTING WORKS	194.40	sq.m
SPL9	SOLAR FLOOD LIGHT	4.00	set
VI.	PIPES, FITTINGS, AND OTHER ACCESSORIES		
SPL10	DELIVERY PIPE (6" Ø G.I. PIPE, SCH. 40), FITTINGS, AND OTHER ACCESSORIES	1.00	lot

SCOPE OF WORK



SCALE

NTS

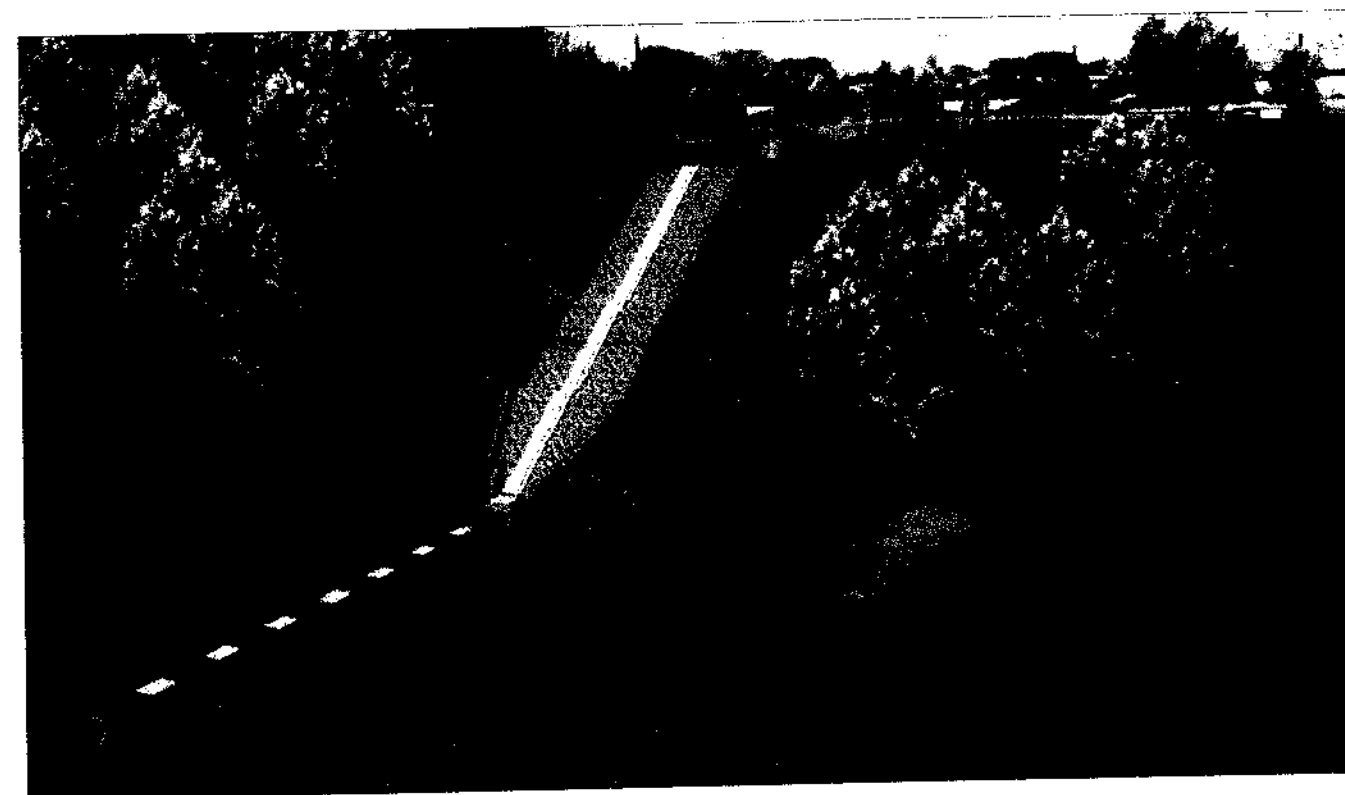


LOCATION MAP



SCALE

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PERSPECTIVE



SCALE



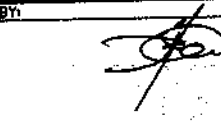
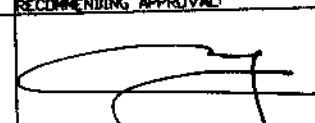

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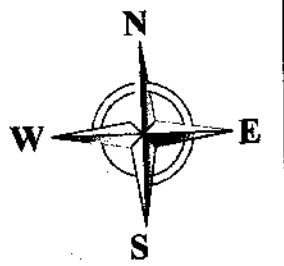
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IMPLEMENTING AGENCY:  REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY	PROJECT NAME & LOCATION: ESTABLISHMENT OF POBLACION ILAYA, SOLAR POWERED IRRIGATION PROJECT (SPIS) BRGY. POBLACION ILAYA, DAO, CAPIZ	SHEET CONTENTS: AS SHOWN	PREPARED BY:  MELVIN N. HAGONOB, ABE Engineer License No. 0082001	REVIEWED BY:  YVONNE GRACE H. SUR, ABE Engineer License No. 0005971 Head, Engineering Plans, Design, and Specifications Section	RECOMMENDING APPROVAL:  MOISES D. MANA-AY, ABE, MEE Regional Engineer	APPROVED BY:  ENGR. JOSE ALBERT A. BARRAGO Chief, Regional Engineering Office	SHEET NO. 1 PAGE NO. 1 16
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LEGEND:

- PROPOSED CONC. CANAL
- CONTOUR
- EXISTING CANAL
- ROAD

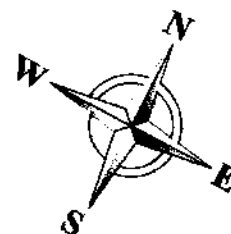


SOLAR ARRAY

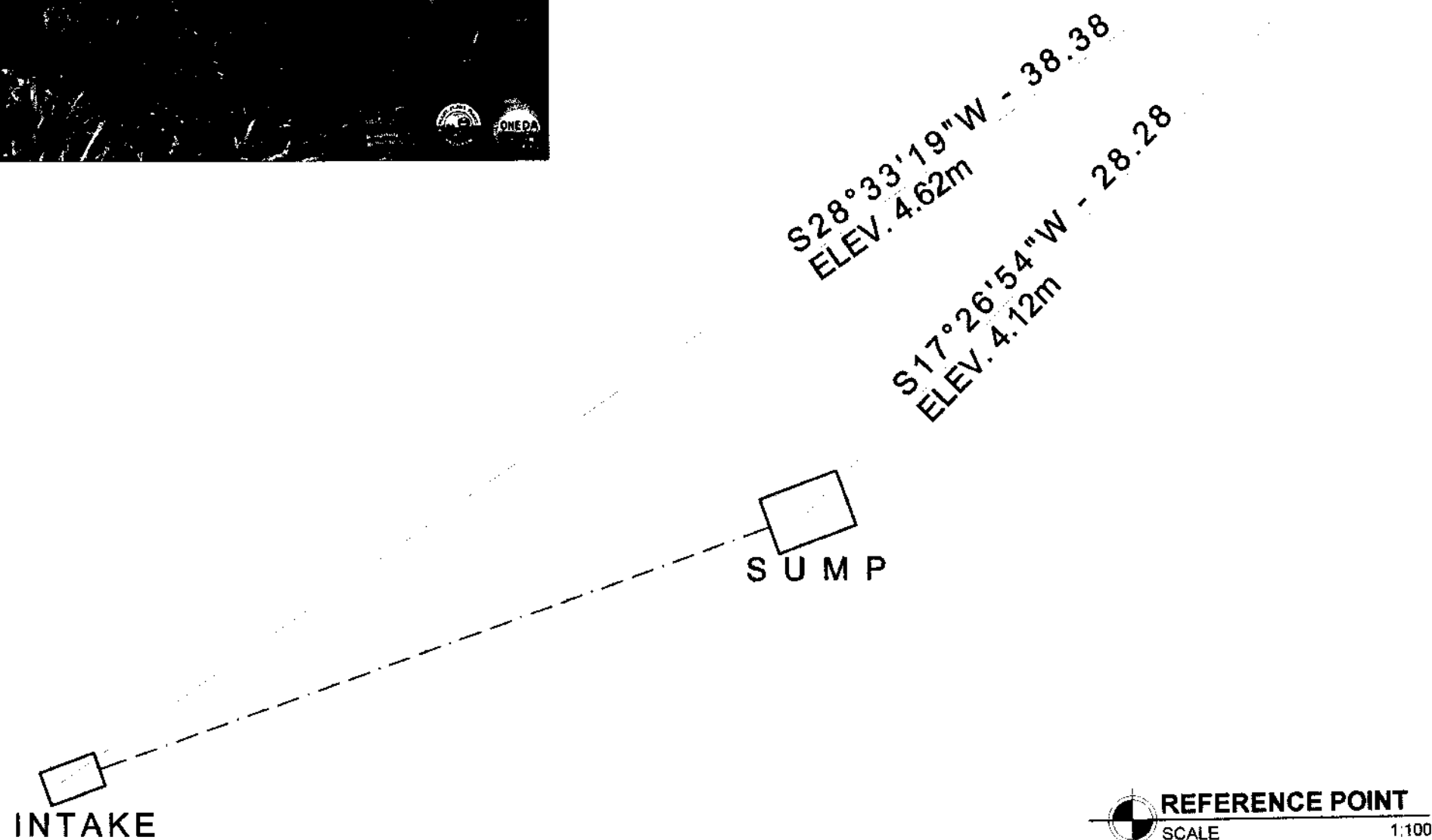
FARM PLAN

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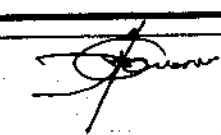
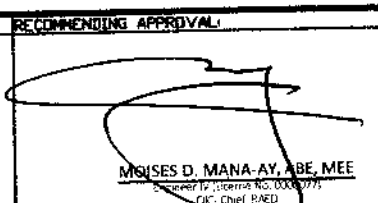

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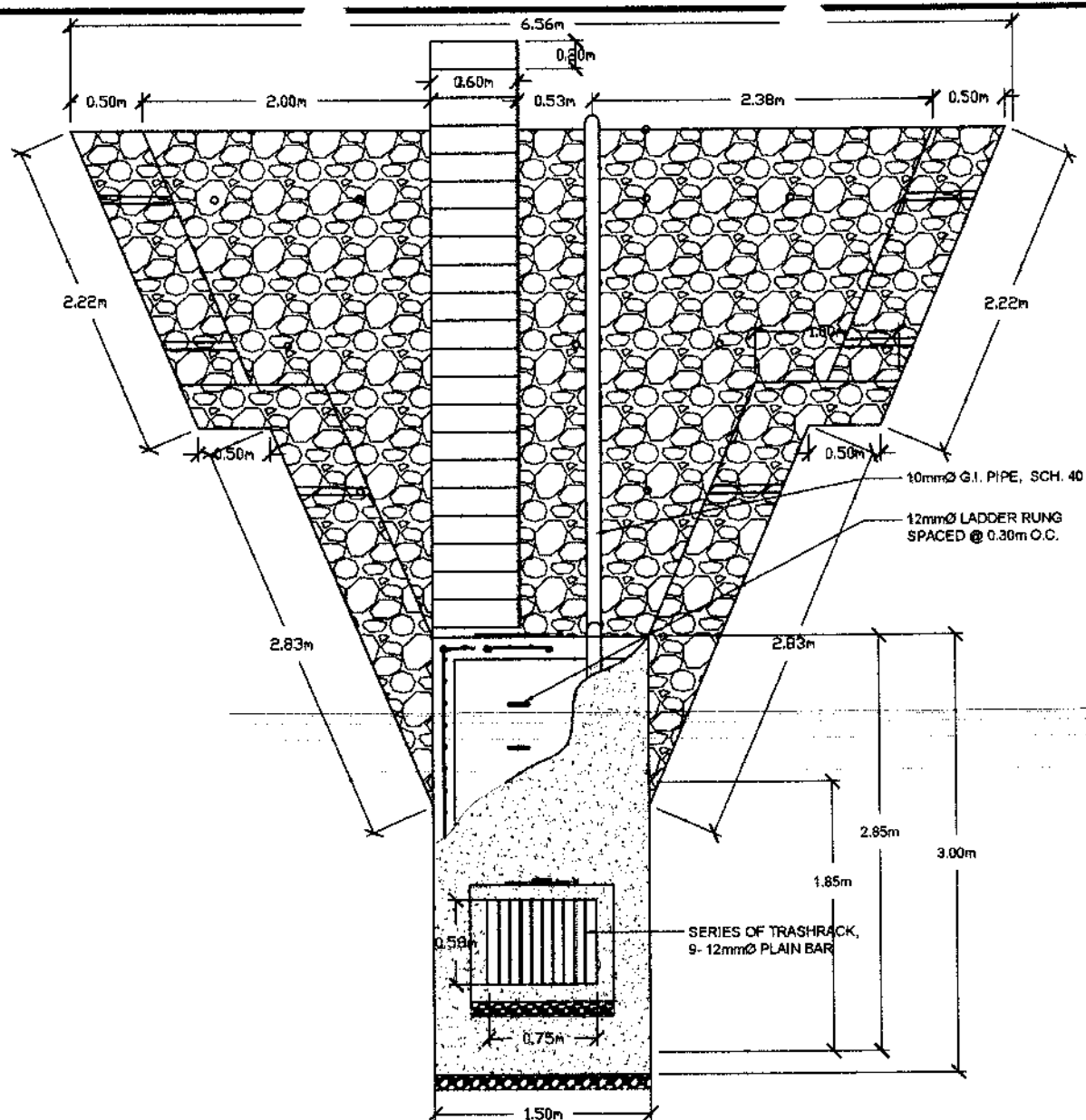


BM - X MARK ON TREE
ELEV. 21.20
LAT. 11.3855076
LONG 122.682822

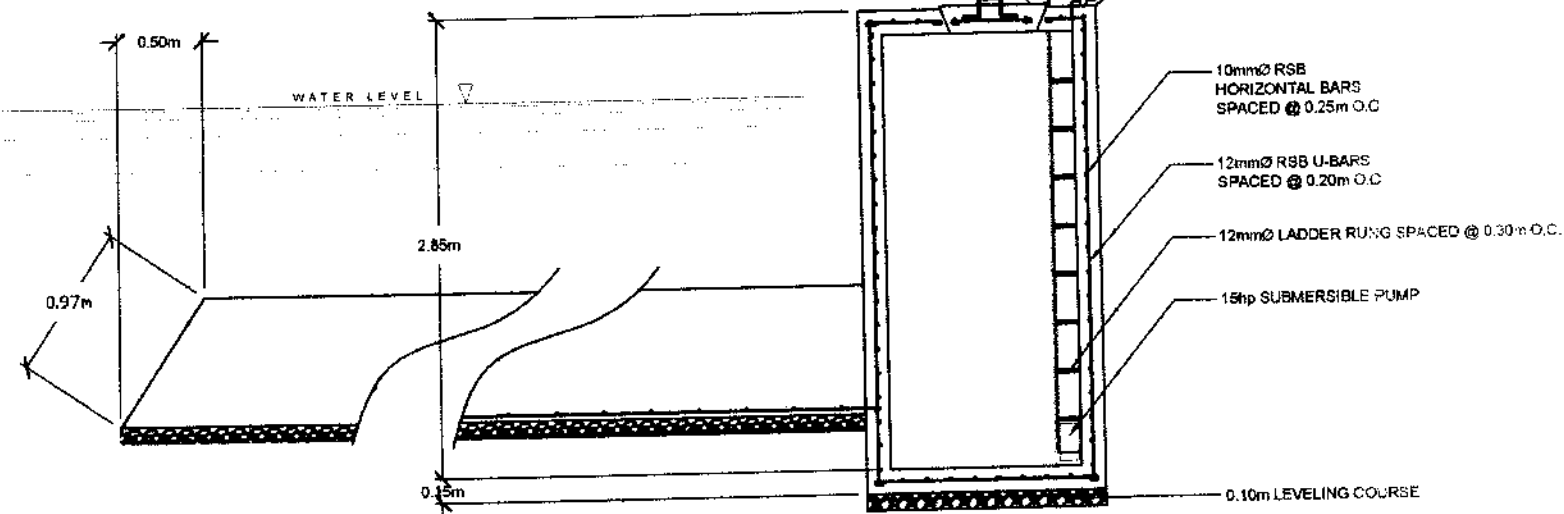


 **REFERENCE POINT**
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IMPLEMENTING AGENCY:  REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY	PROJECT NAME & LOCATION: ESTABLISHMENT OF POBLACION ILAYA, SOLAR POWERED IRRIGATION PROJECT (SPIP) BRGY. POBLACION ILAYA, DAO, CAPIZ	SHEET CONTENTS: AS SHOWN	PREPARED BY:  MELVIN D. HAGONOB, ABE Engineer I License No. 028509	REVIEWED BY:  YVONNE GRACE H. SUR, ABE Engineer II License No. 00055411 Head, Engineering Plans, Design, and Specifications Section	RECOMMENDING APPROVAL:  MOISES D. MANA-AY, ABE, MEE Engineer II License No. 00055773 QC Chief, RAGD	APPROVED BY:  ENGR. JOSE ALBESTA BARROGO Engr. License No. 00055773	SHEET NO.: A 3 PAGE NO.: 3 16
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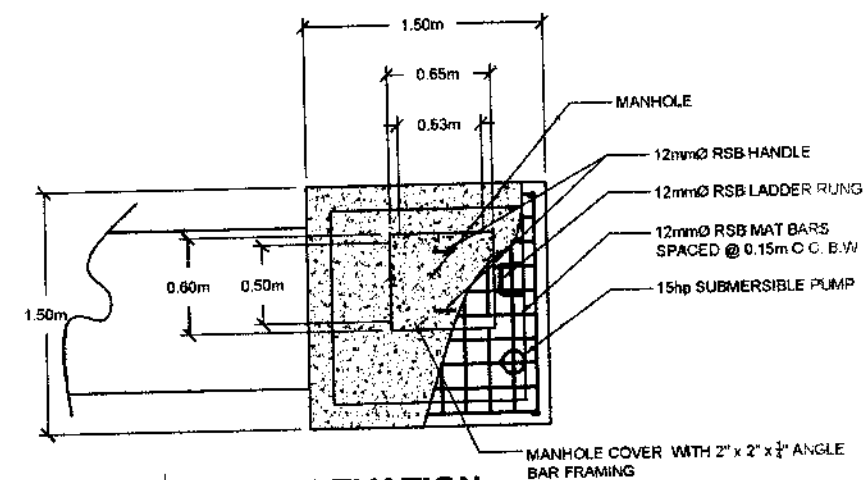


FRONT ELEVATION
SCALE 1:50



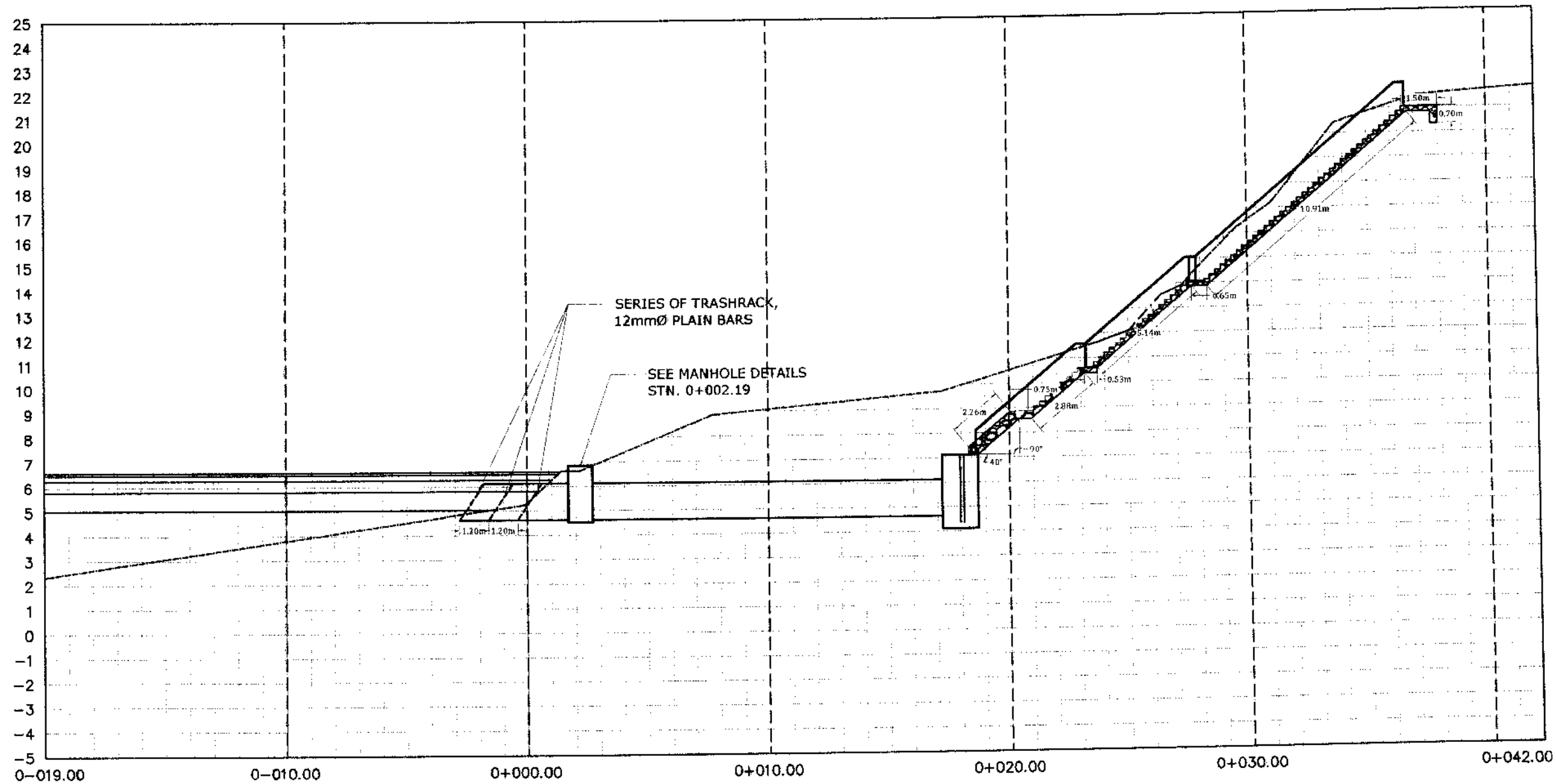
SIDE ELEVATION
SCALE 1:50

PLAN OF SUMP
SCALE 1:50



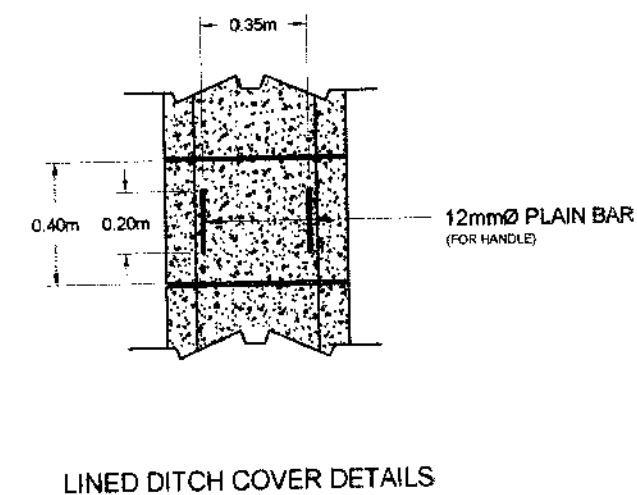
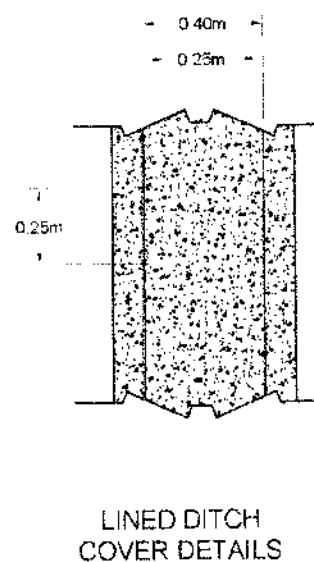
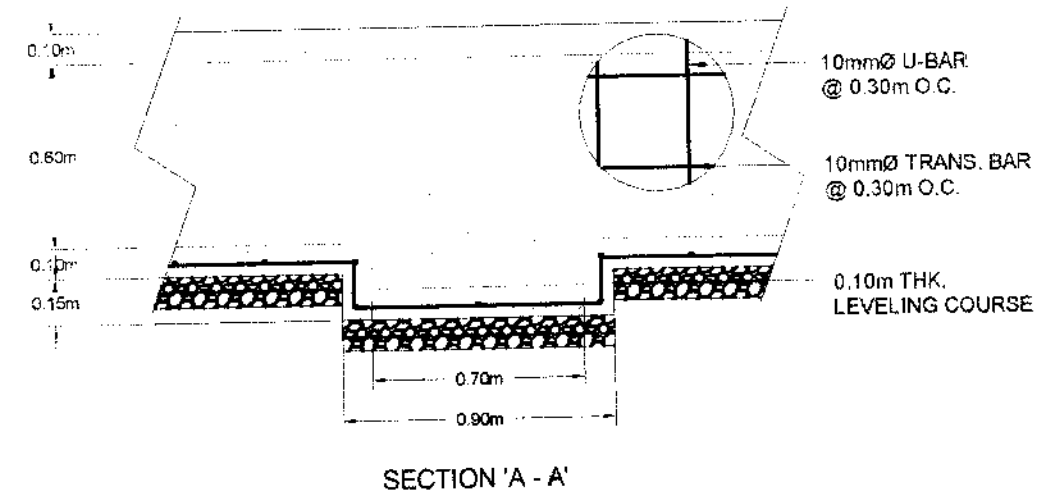
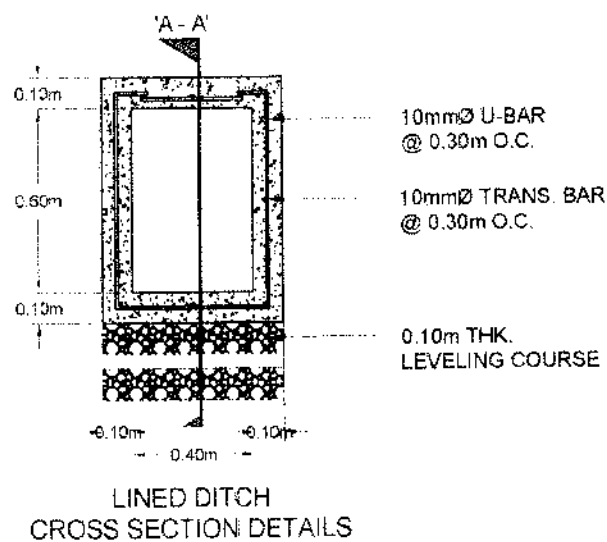
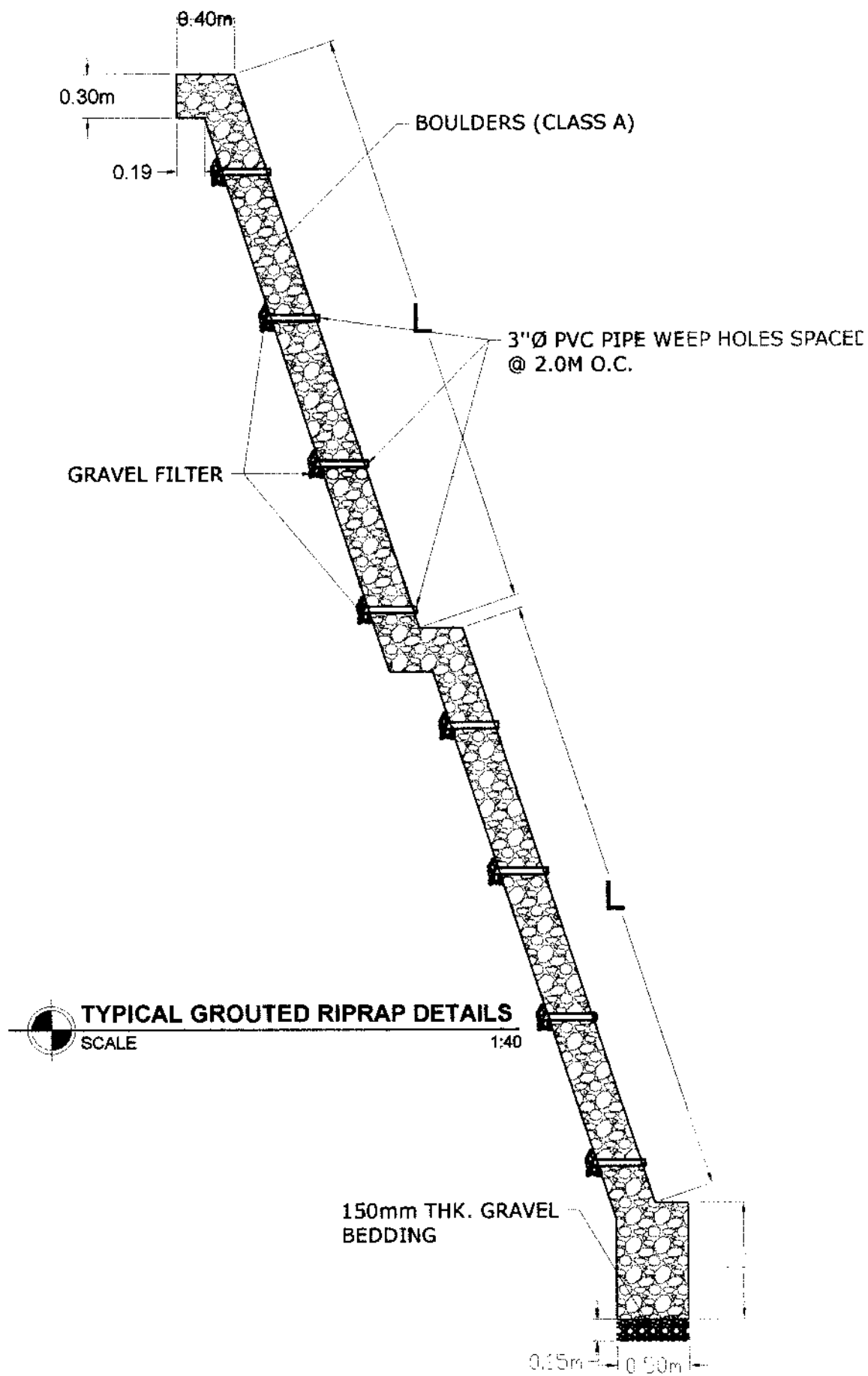
TOP ELEVATION
SCALE 1:50

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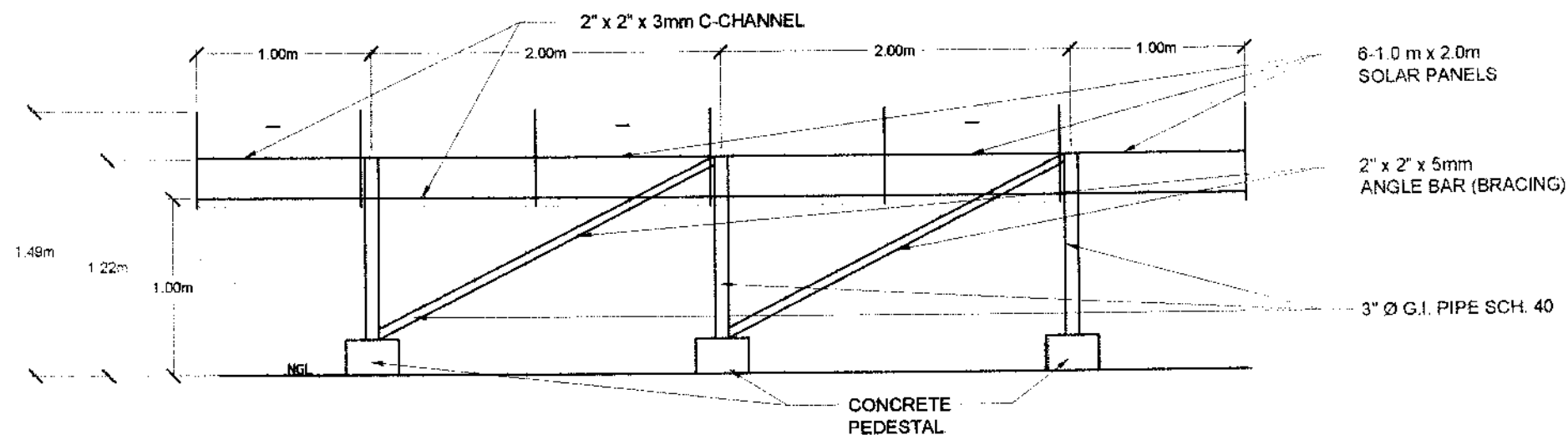
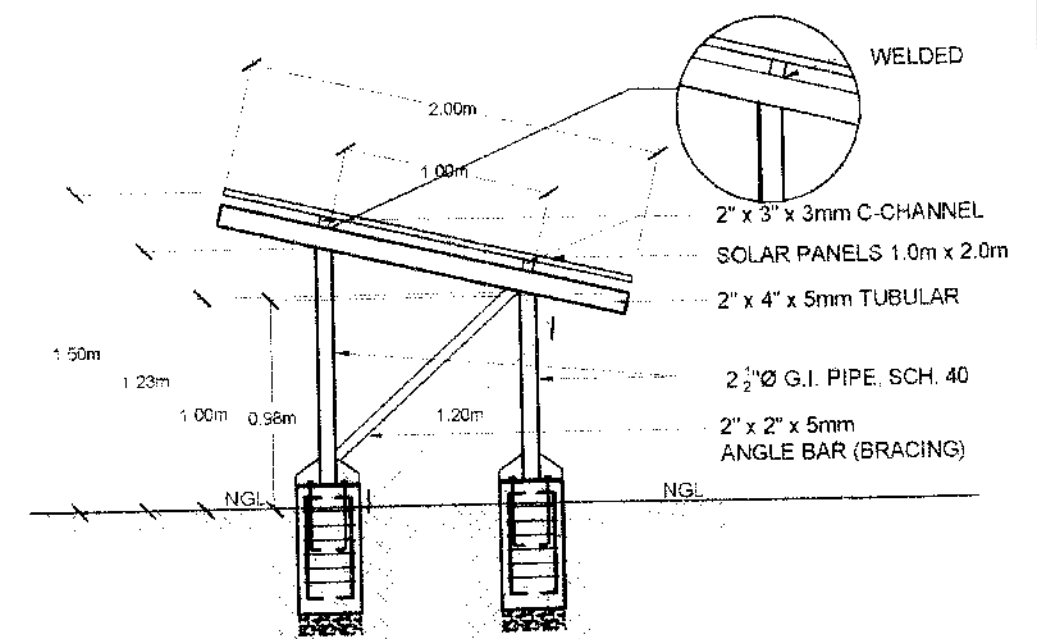
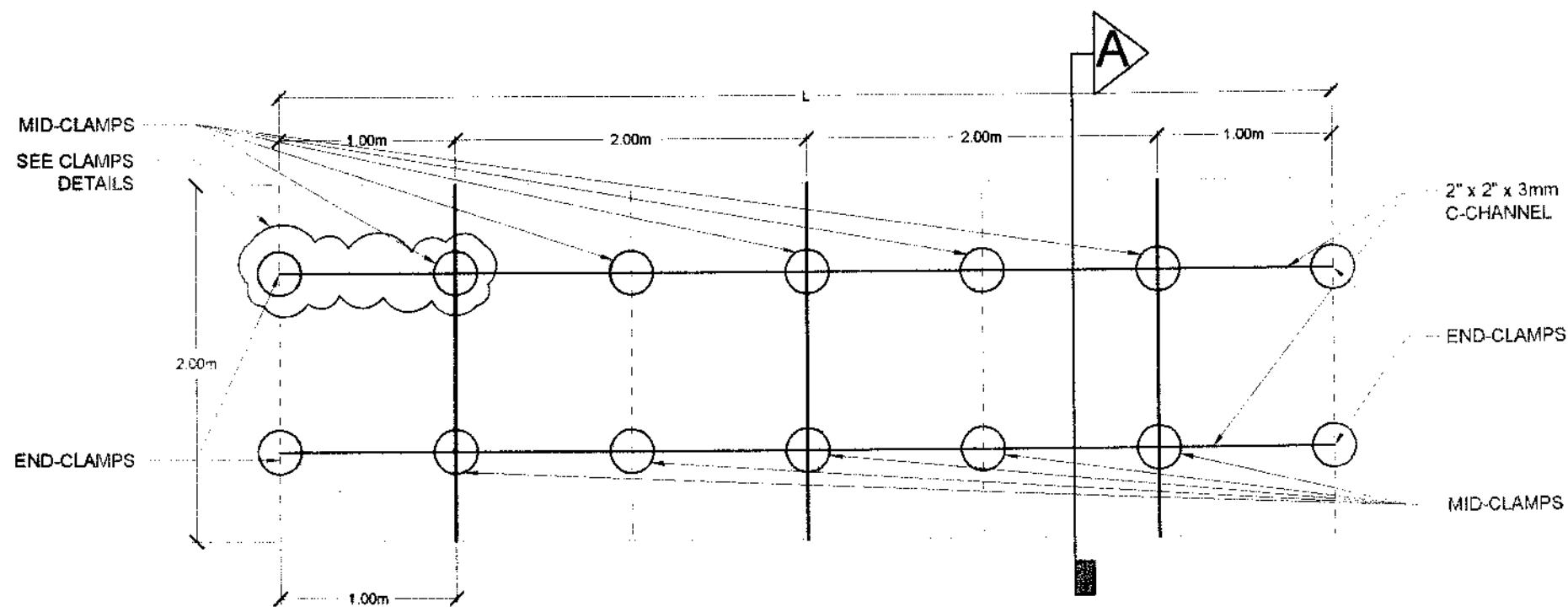


SUMP PROFILE
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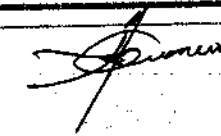


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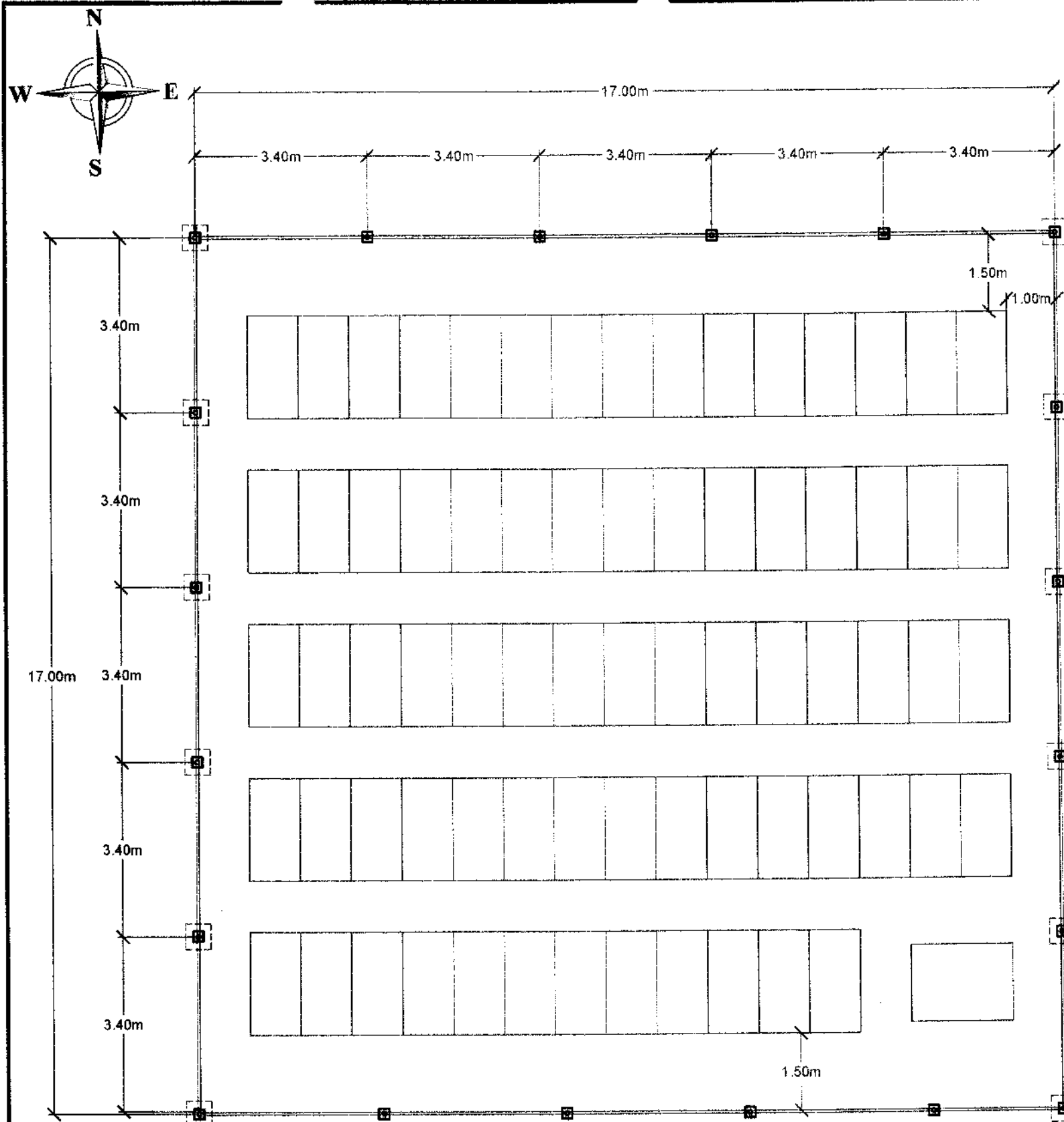


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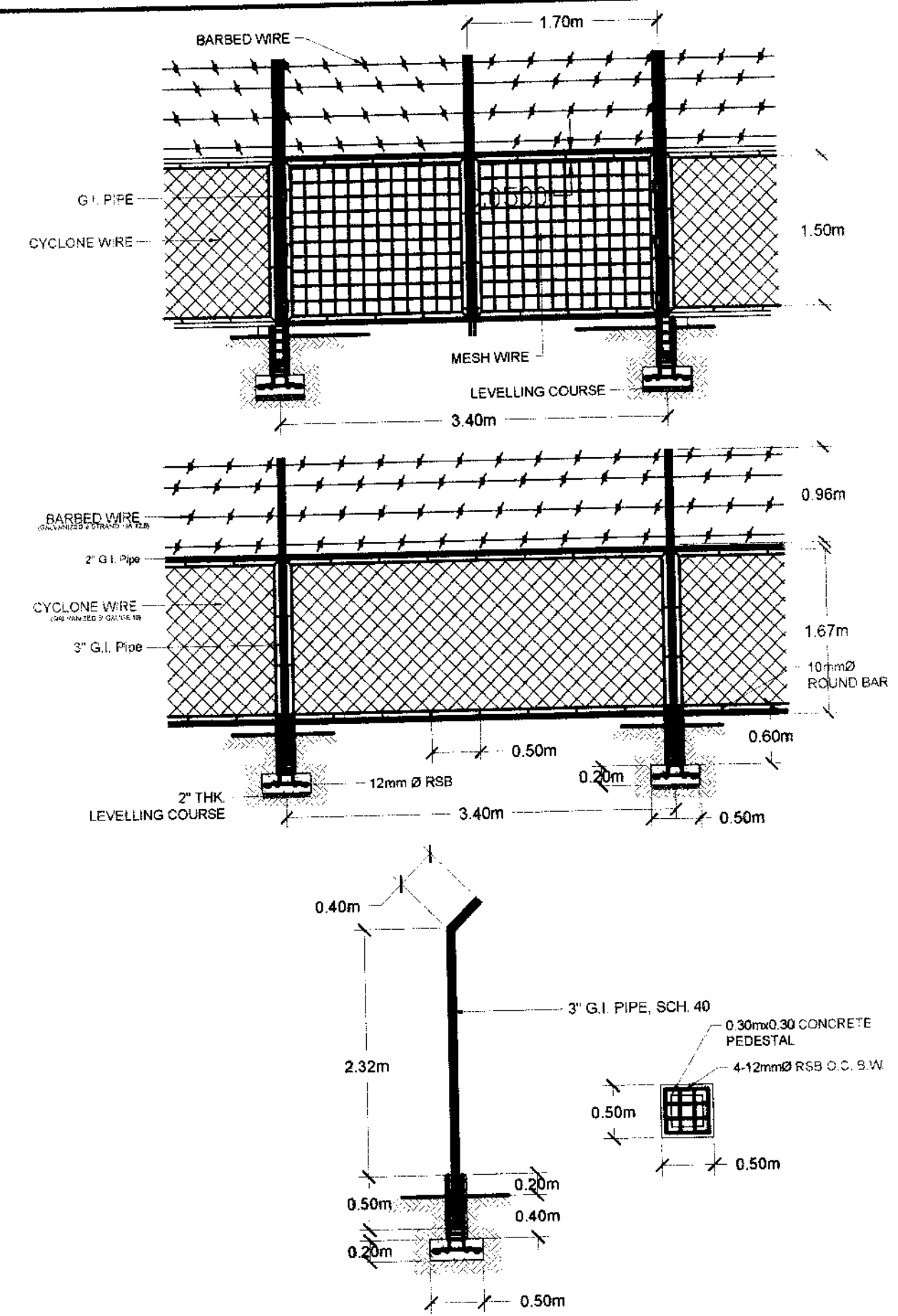


SOLAR ARRAY DETAILS
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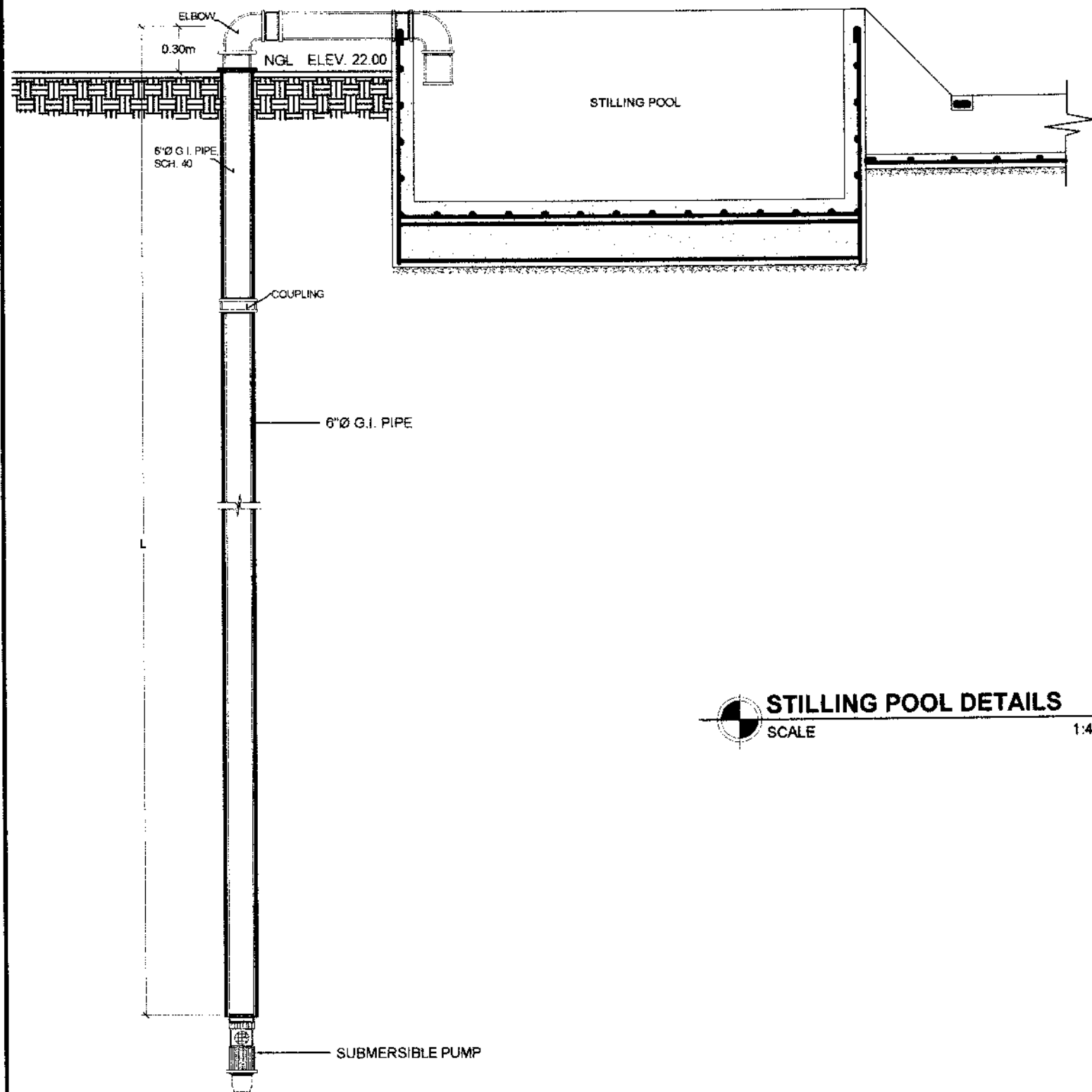
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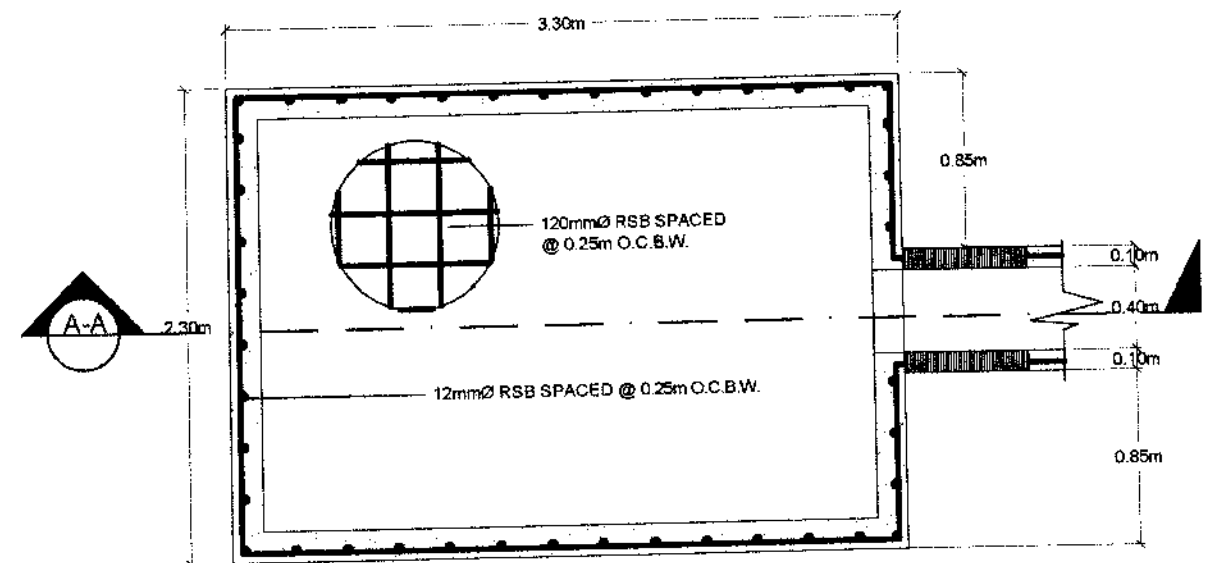
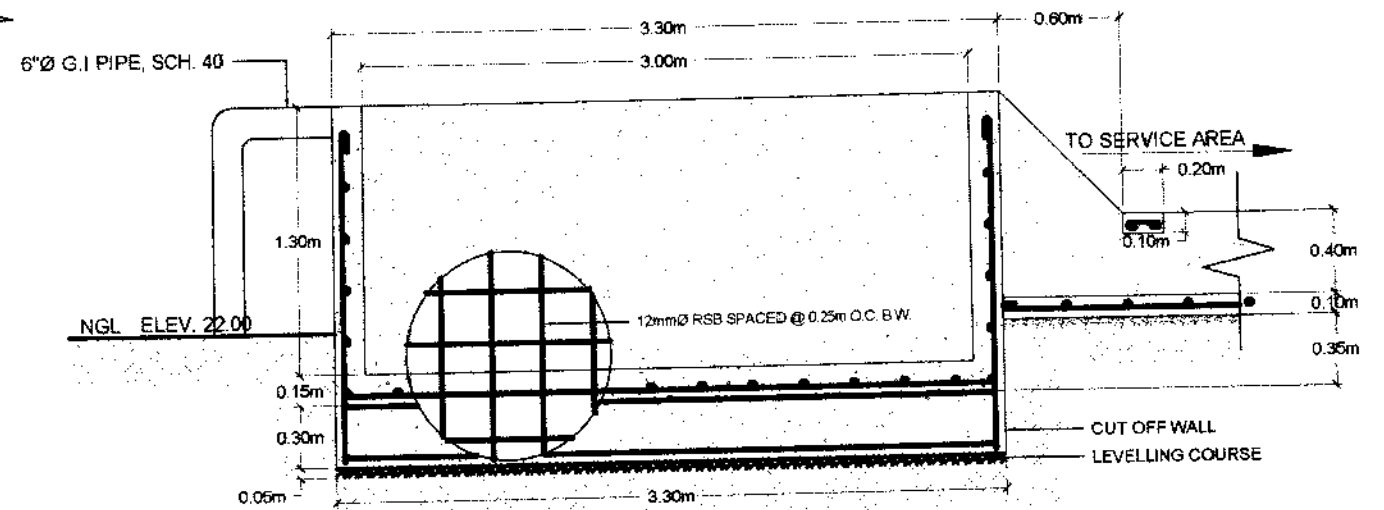
PERIMETER FENCE DETAILS
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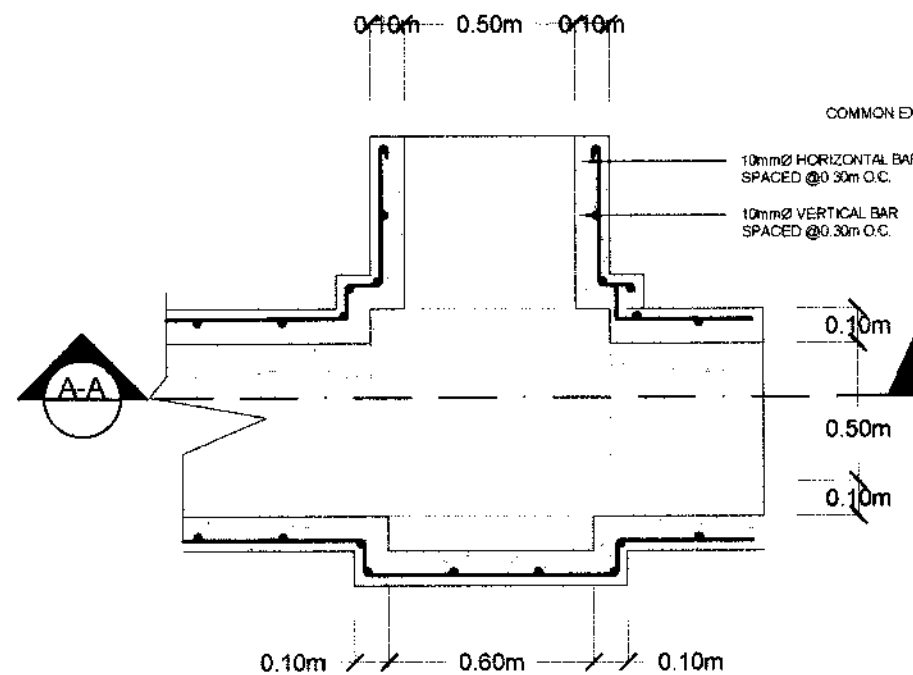
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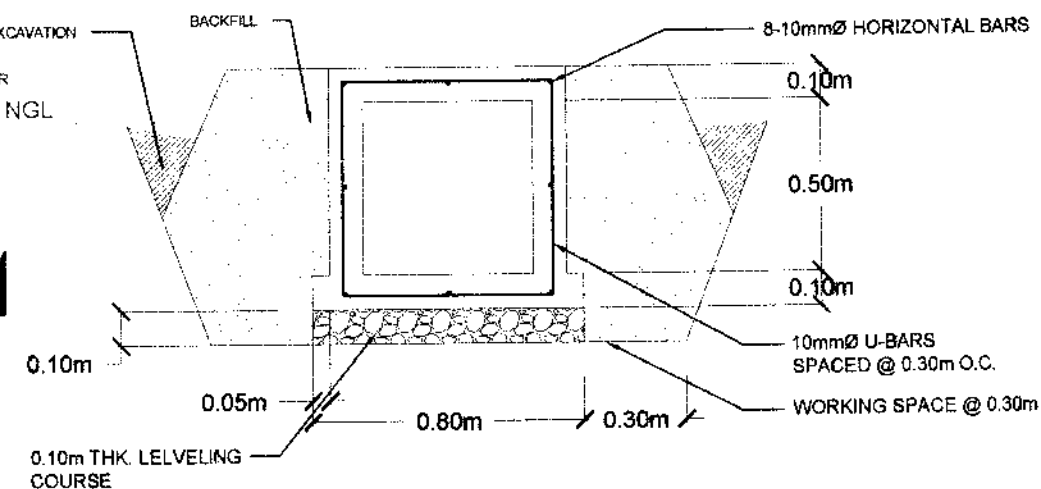
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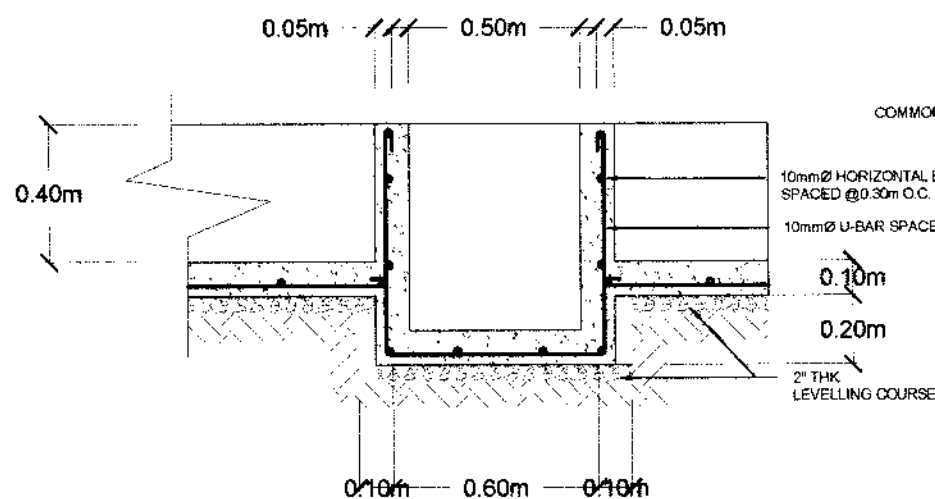
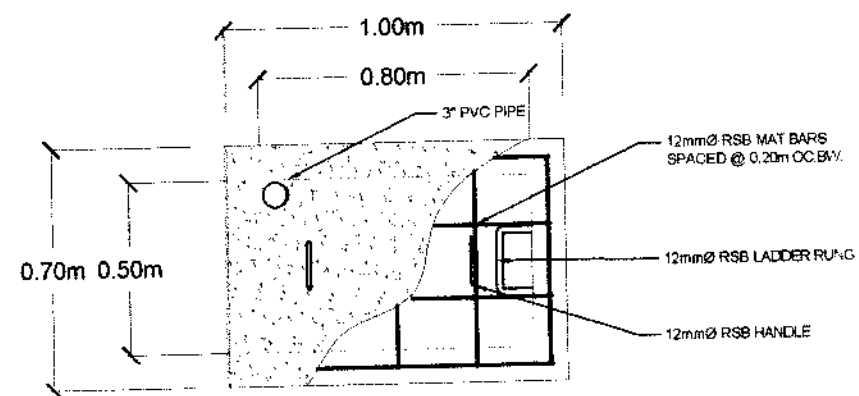
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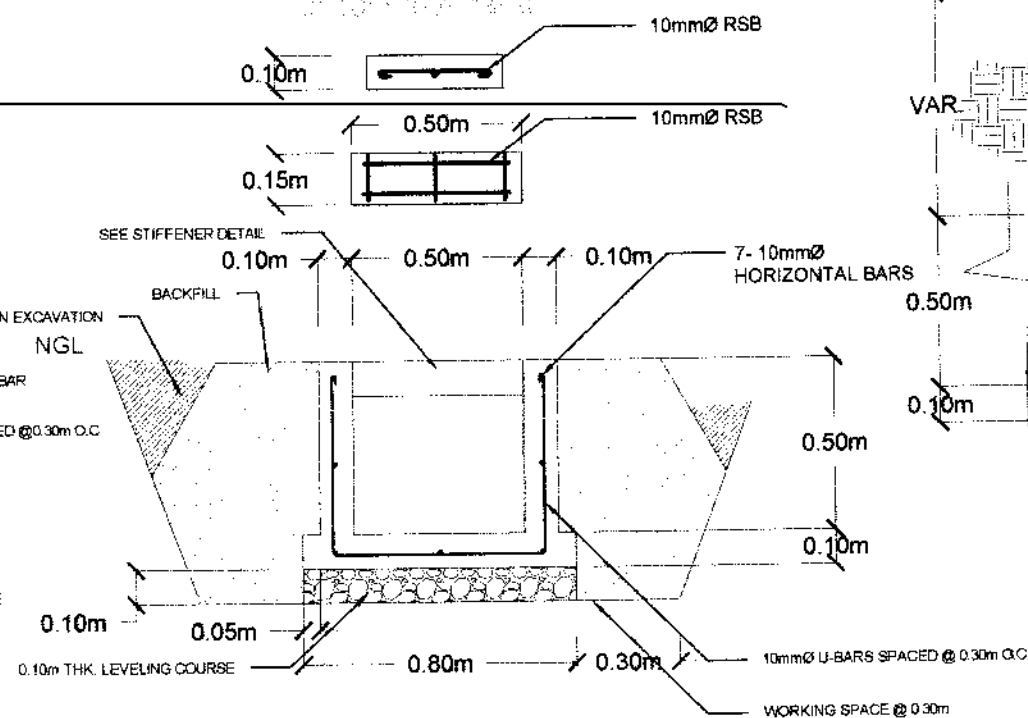
DIVISION BOX DETAILS
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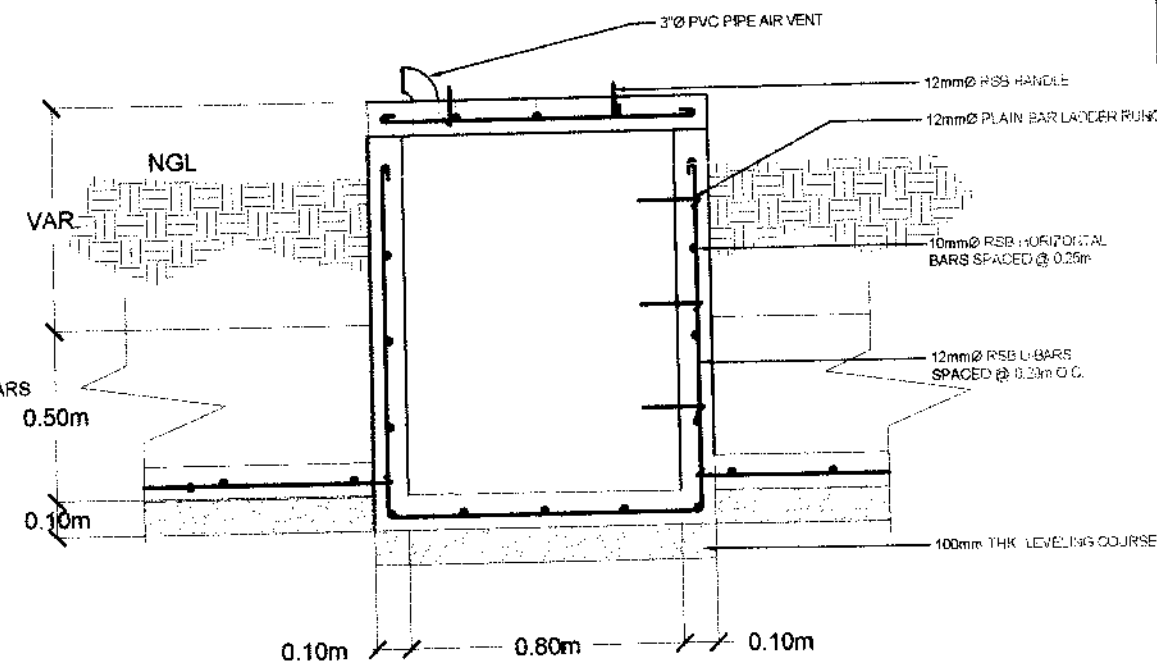
TYPICAL SECTION OF BOX CULVERT
SCALE 1:20





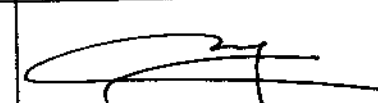
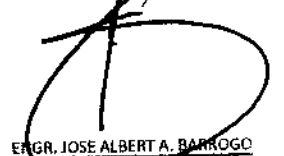
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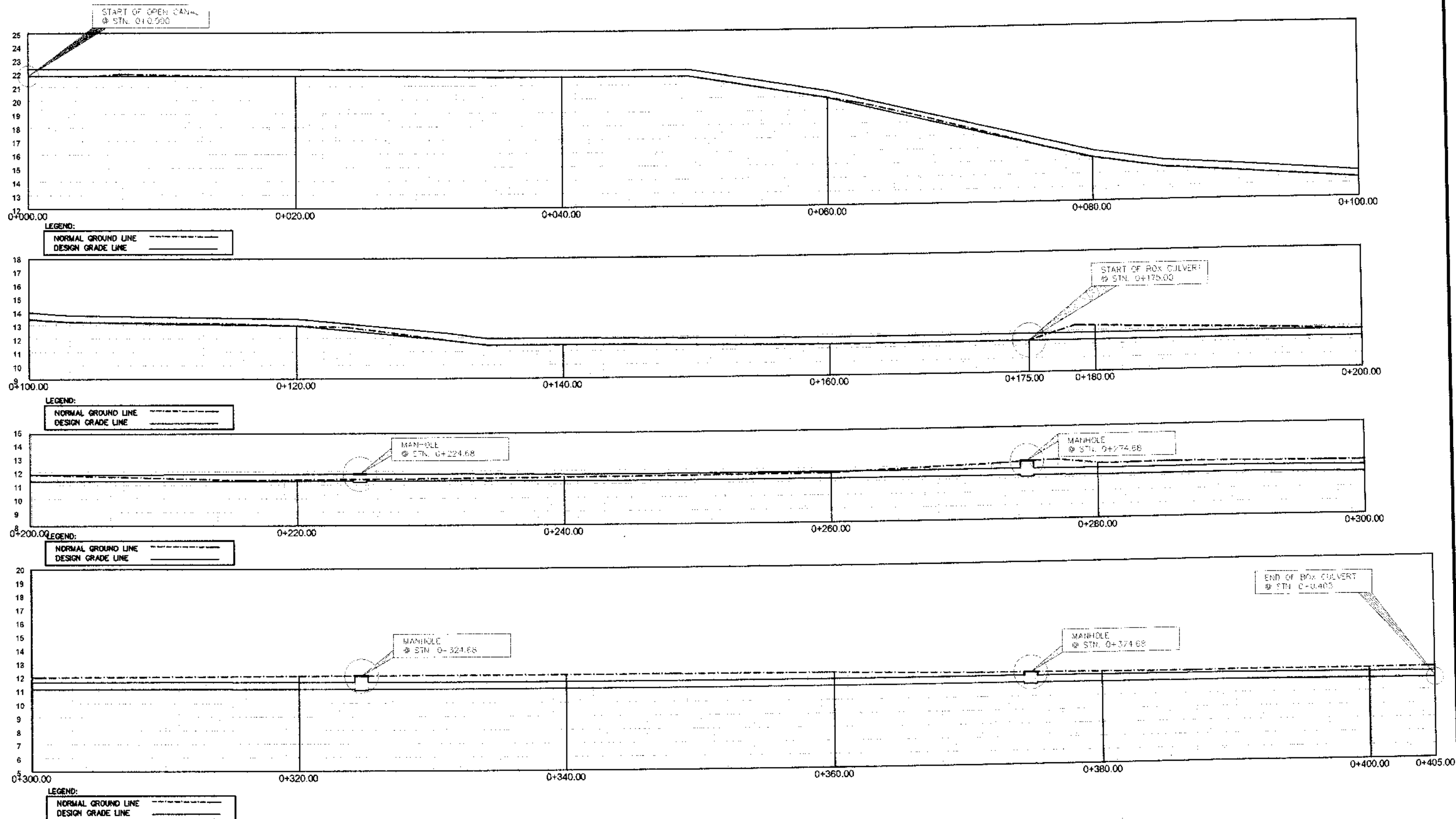


TYPICAL SECTION OF LINED CANAL
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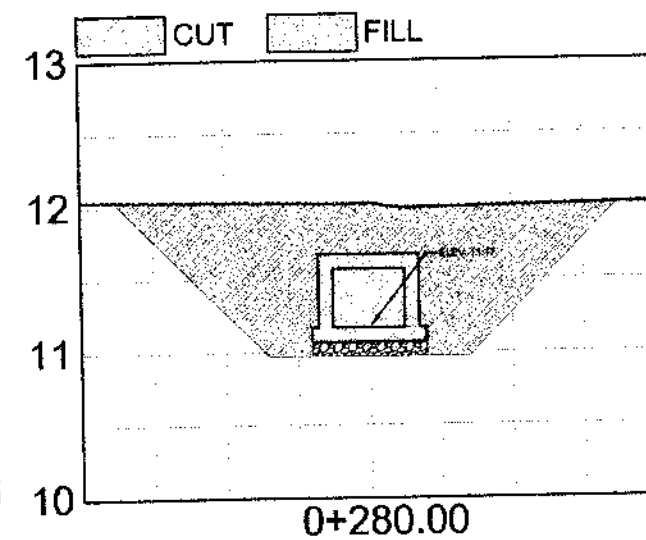
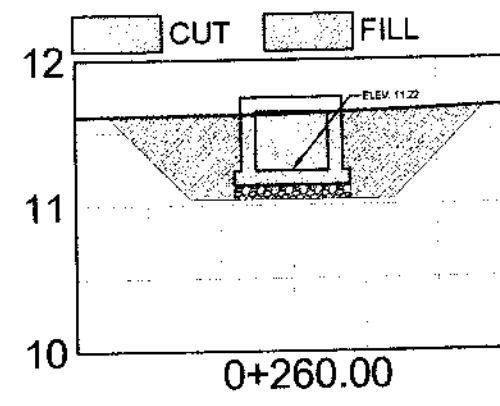
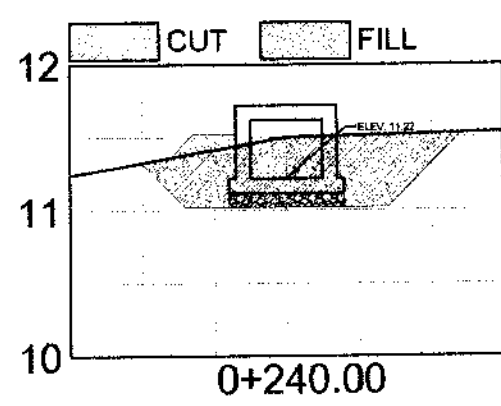
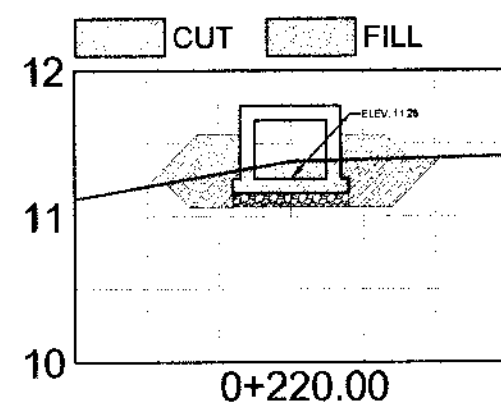
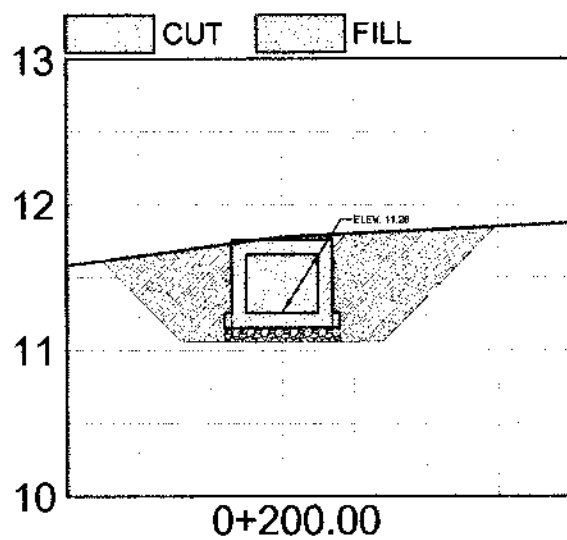
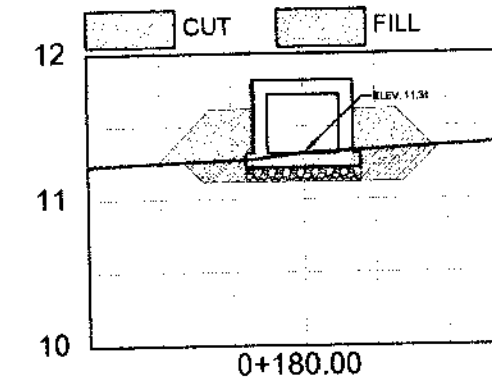
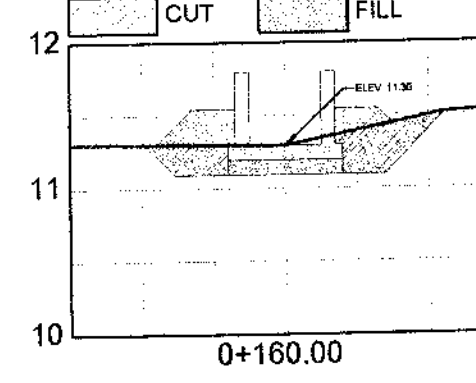
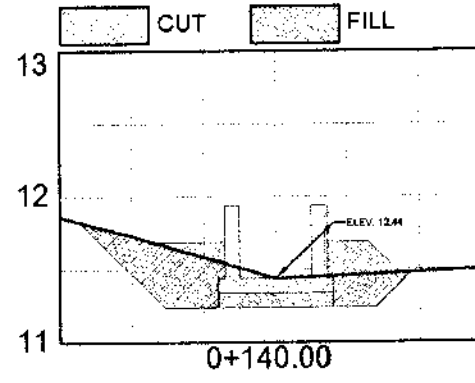
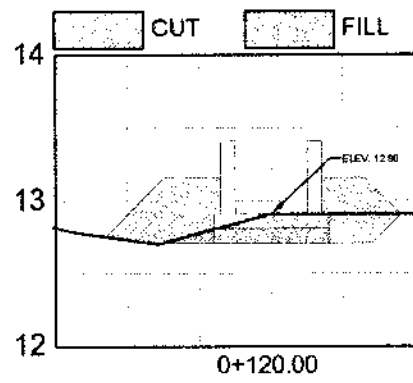
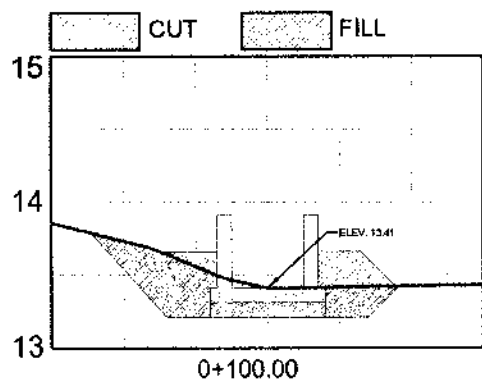
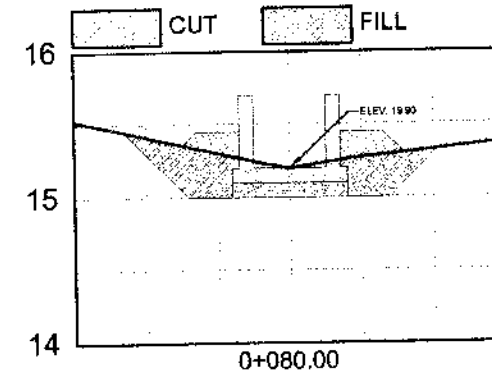
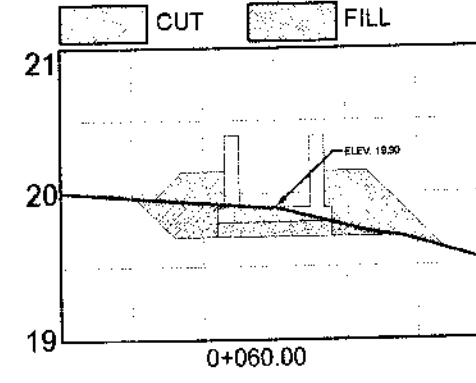
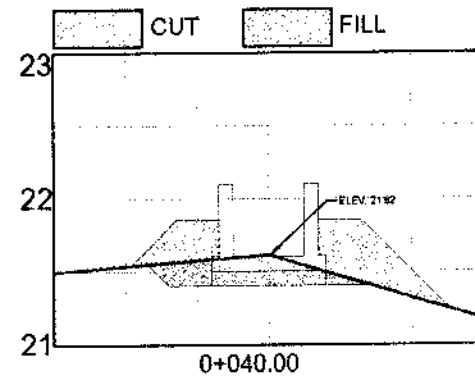
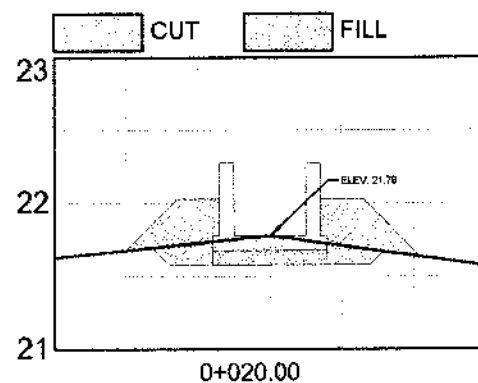
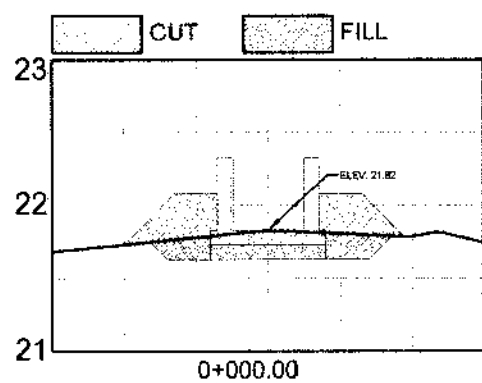
MANHOLE DETAILS
SCALE 1:20

IMPLEMENTING AGENCY:  REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY	PROJECT NAME & LOCATION: ESTABLISHMENT OF POBLACION ILAYA, SOLAR POWERED IRRIGATION PROJECT (SPIP)	SHEET CONTENTS: AS SHOWN	PREPARED BY: MELVINO P. RAGONOS, ABE Engineer II License No. 004500	REVIEWED BY:  YVONNE GRACE H. SUR, ABE Engineer II License No. 004500 Head, Engineering Plans, Design and Specifications Section	RECOMMENDING APPROVAL:  MISIAEL D. MANAY, ABE, MEE Engineer II License No. 006077 Chief, Field Office	APPROVED BY:  ENGR. JOSE ALBERT A. BARROGO Chief, Regional Extension Office	SHEET NO.: S 6 PAGE NO.: 10 16
	CAD BY: RV LASTIERRE/GP SILVA						



CANAL PROFILE
 SCALE 1:280

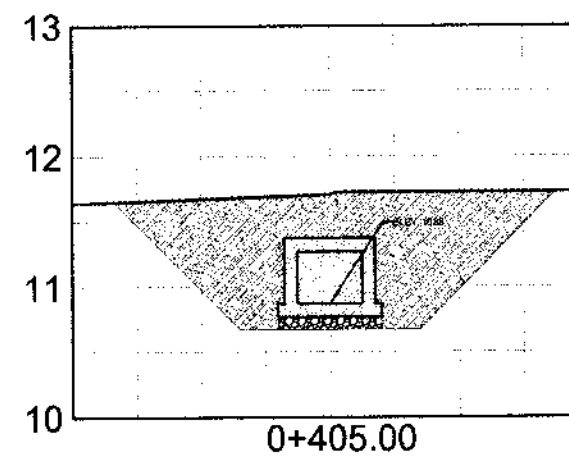
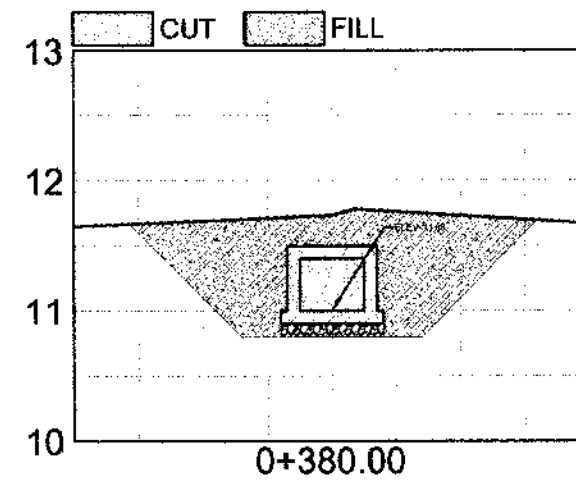
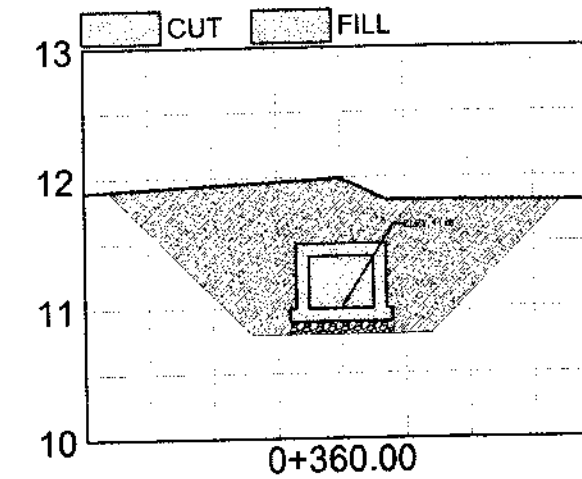
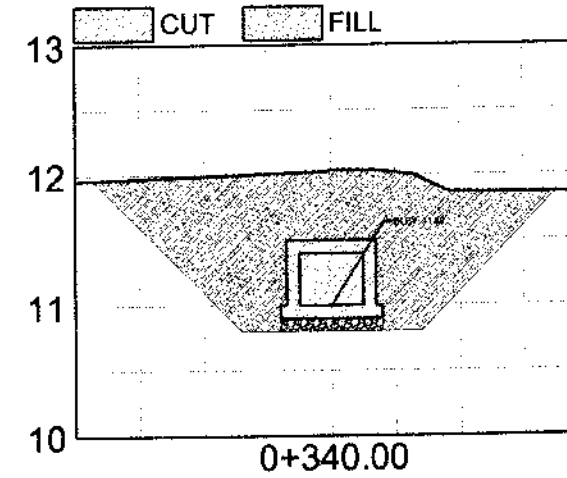
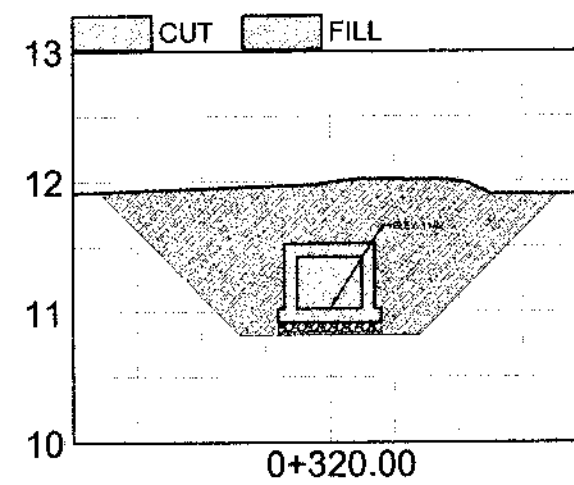
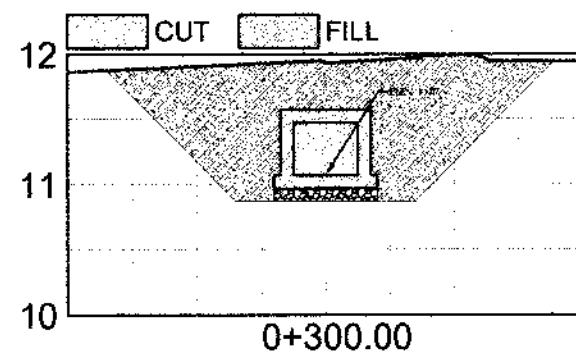
	PROJECT NAME & LOCATION : ESTABLISHMENT OF POBLACION ILAYA, SOLAR POWERED IRRIGATION PROJECT (SPIS) BRGY. POBLACION ILAYA, DAO, CAPIZ	SHEET CONTENTS : AS SHOWN	PREPARED BY : MELVIN D. HAGONOB, ABE <small>Engineer III (License No. 038193)</small>	REVIEWED BY : YVONNE GRACE H. SUR, ABE <small>Engineer III (License No. 005590) Head, Engineering Plans, Design, and Specifications Section</small>	RECOMMENDING APPROVAL : MOISES D. MANA-AY, ABE, MEE <small>Engineer IV (License No. 004607) OIC-Chief, DAED</small>	APPROVED BY : ENGR. JOSE ALBERT A. BARRIGO <small>AS Regional Design Engineer</small>	SHEET NO. : A 5 PAGE NO. : 11 16
	CAD BY : RV LASTIERRE/GP SILVA						
	IMPLEMENTING AGENCY: REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY						



CANAL CROSS SECTIONS

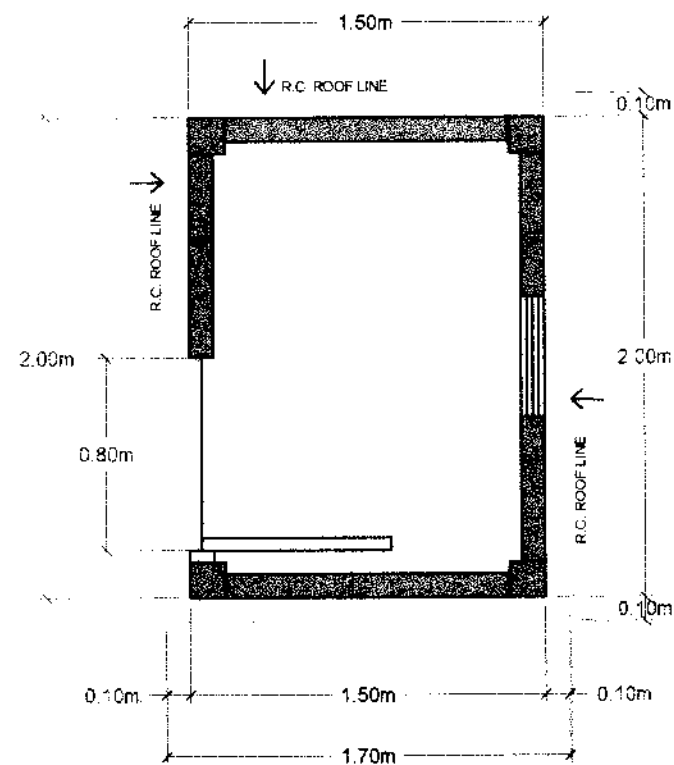
SCALE 1:50

<p>IMPLEMENTING AGENCY:</p> <p>REPUBLIC OF THE PHILIPPINES</p> <p>DEPARTMENT OF AGRICULTURE</p> <p>WESTERN VISAYAS</p> <p>PAROLA, ILOILO CITY</p>	<p>PROJECT NAME & LOCATION:</p> <p>ESTABLISHMENT OF POBLACION ILAYA, SOLAR POWERED IRRIGATION PROJECT (SPIS)</p> <p>BRGY. POBLACION ILAYA, DAO, CAPIZ</p>	<p>SHEET CONTENTS:</p> <p>AS SHOWN</p>	<p>PREPARED BY:</p> <p>MELVIN D. HAGONOB, ABE</p> <p>Chief Engineer (License No. 008755)</p>	<p>REVIEWED BY:</p> <p>YVONNE GRACE H. SUR, ABE</p> <p>Engineer III (License No. 008755)</p> <p>Head, Engineering, Plans, Design, and Specifications Section</p>	<p>RECOMMENDING APPROVAL:</p> <p>MOISES D. MANA-AY, ABE, MEE</p> <p>Engineer II (License No. 008755)</p> <p>Chief, PAI</p>	<p>APPROVED BY:</p> <p>ENR. JOSE ALBERT A. BARTOGO</p> <p>Chief, PAI</p>	<p>SHEET NO. 1</p> <p>A</p> <p>6</p> <p>PAGE NO. 1</p> <p>12</p> <p>16</p>
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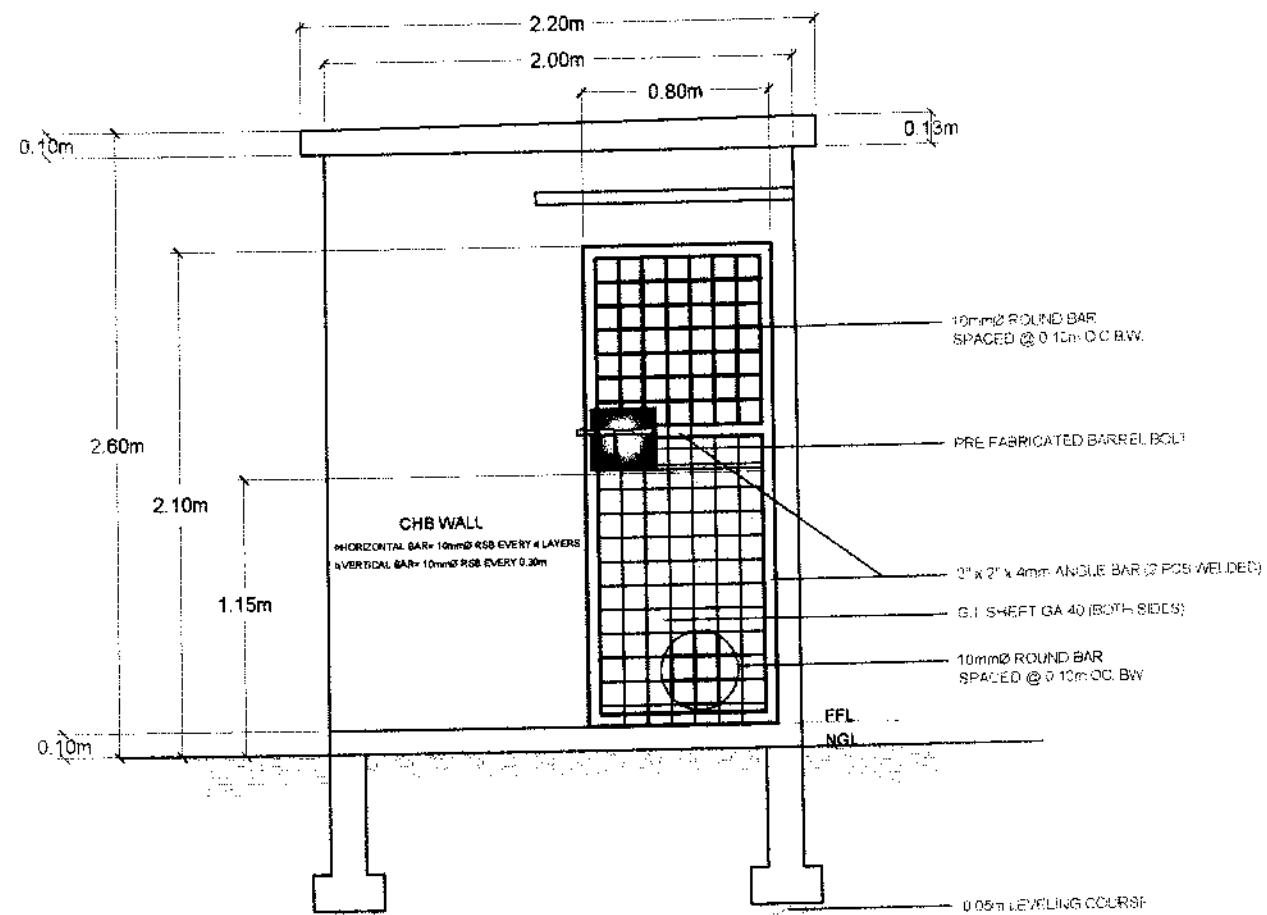


CANAL CROSS SECTIONS
SCALE 1:60

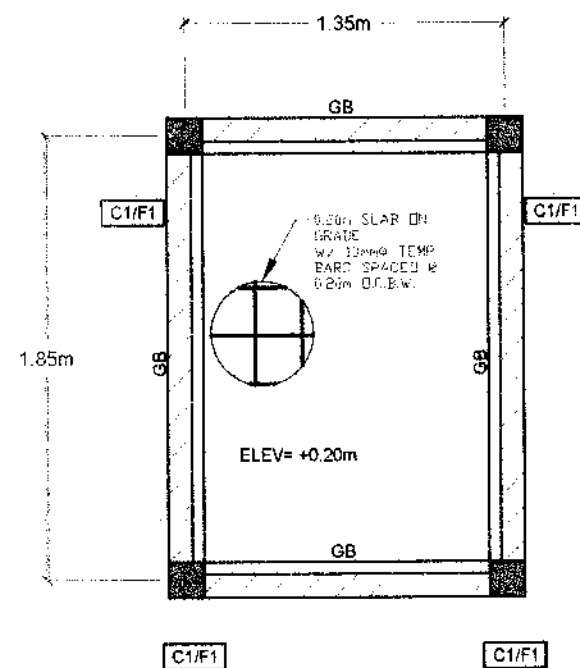
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>PROJECT NAME & LOCATION :</p> <p>ESTABLISHMENT OF POBLACION ILAYA, SOLAR POWERED IRRIGATION PROJECT (SPIP)</p> <p>BRGY. POBLACION ILAYA, DAO, CAPIZ</p>	<p>SHEET CONTENTS :</p> <p>AS SHOWN</p>	<p>PREPARED BY:</p> <p><i>M. Hagonob</i> MELVIN D. HAGONOB, ABE Engineer III (License No. 038133)</p>	<p>REVIEWED BY:</p> <p><i>Y. Grace H. Sur</i> YVONNE GRACE H. SUR, ABE Engineer III (License No. 000593) Roads, Engineering Plans, Design, and Specifications Section</p>	<p>RECOMMENDING APPROVAL:</p> <p><i>M. Mana-Ay</i> MOISES O. MANA-AY, ABE, MEE Engineer IV (License No. 000099) Chief, RAEO</p>	<p>APPROVED BY:</p> <p><i>J. Barrogo</i> ENGR. JOSE ALBERT A. BARROGO Chief, Regional Engineering Office</p>	<p>SHEET NO. 1</p> <p>A</p> <p>7</p> <p>PAGE NO. 1</p> <p>13</p> <p>16</p>
	<p>CAJ BY : RV LASTIERRE/ GP SILVA</p>						



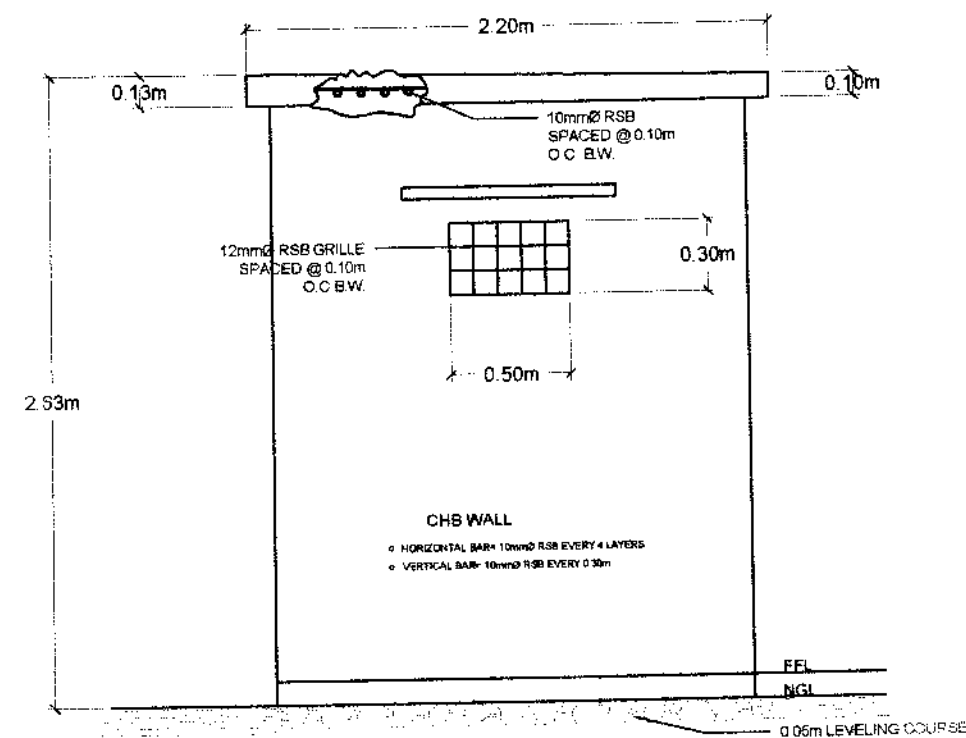
FLOOR PLAN
SCALE 1:30



LEFT ELEVATION
SCALE 1:30

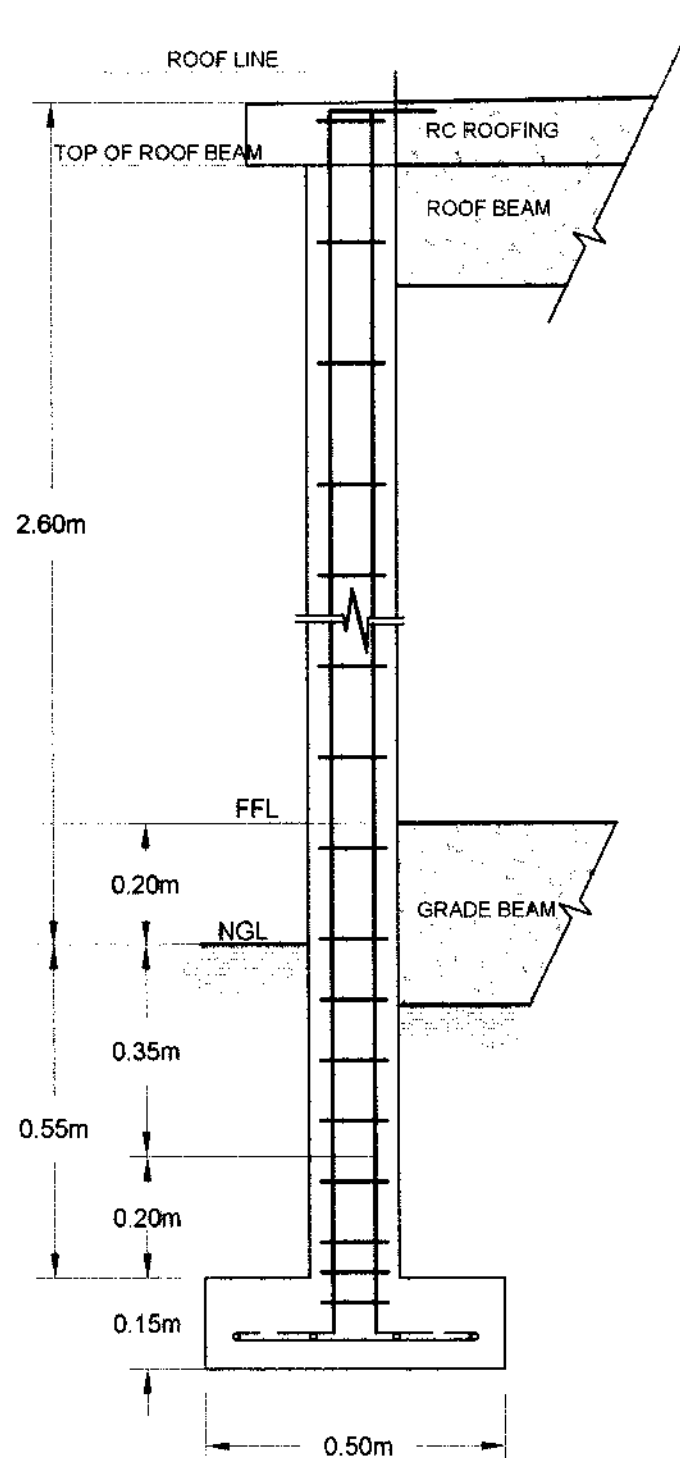


FOUNDATION PLAN
SCALE 1:30

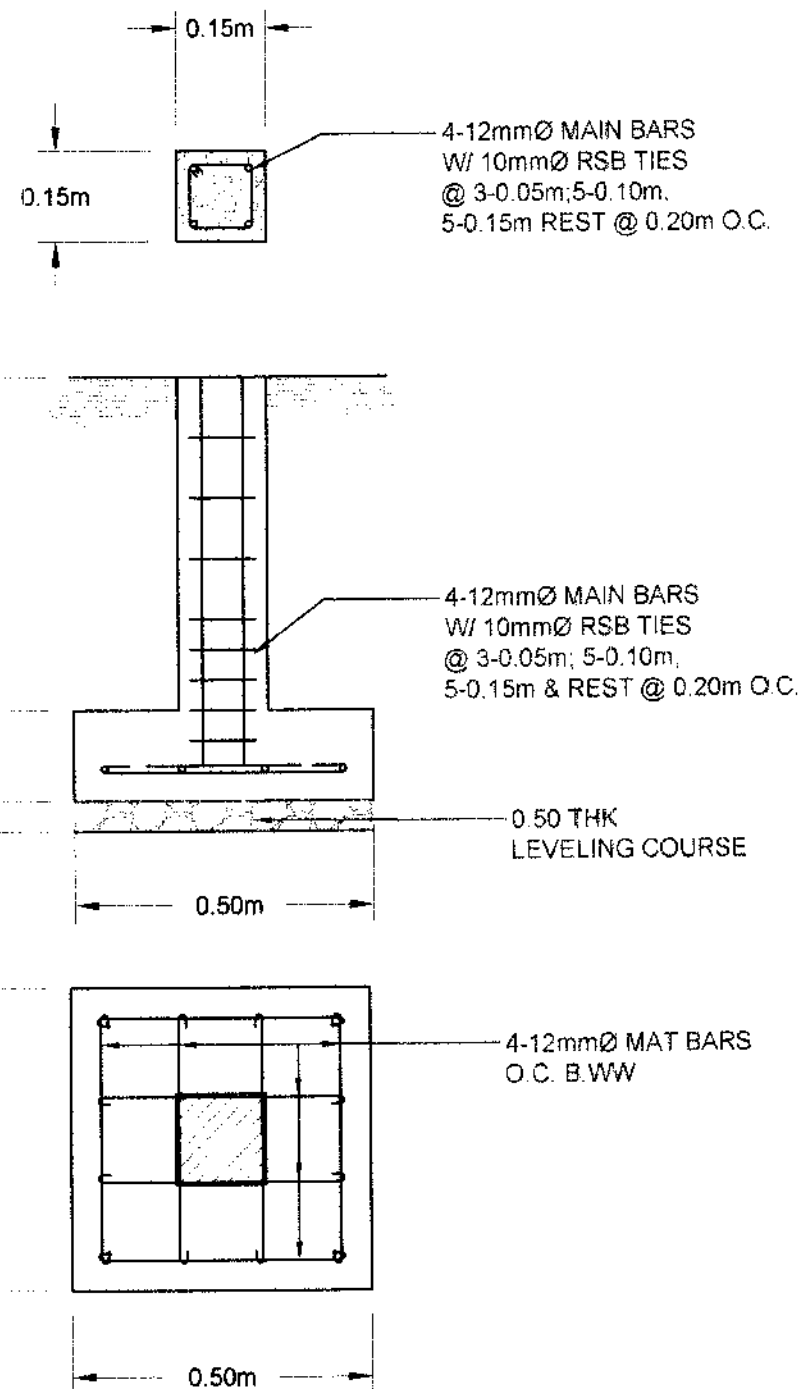


RIGHT ELEVATION
SCALE 1:30

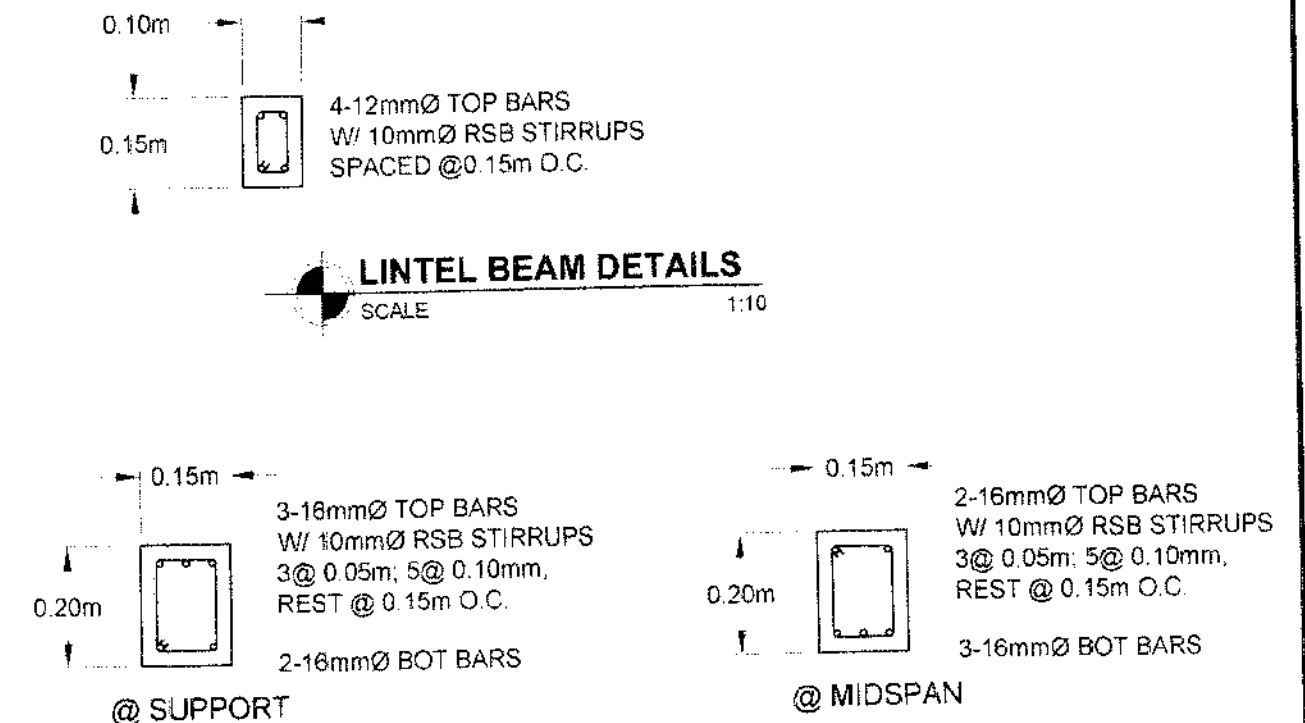
<p>IMPLEMENTING AGENCY:</p> <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE</p> <p>WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>PROJECT NAME & LOCATION:</p> <p>ESTABLISHMENT OF POBLACION ILAYA, SOLAR POWERED IRRIGATION PROJECT (SPIP)</p> <p>BRGY. POBLACION ILAYA, DAO, CAPIZ</p>	<p>SHEET CONTENTS:</p> <p>AS SHOWN</p>	<p>PREPARED BY:</p> <p>MELVIND HAGONOB, ABE</p>	<p>REVIEWED BY:</p> <p>YVONNE GRACE H. SUR, ABE</p>	<p>RECOMMENDING APPROVAL:</p> <p>MOISES O. MANA-AY, ABE, MEE</p>	<p>APPROVED BY:</p> <p>ENR. JOSE ALBERT A. BARROGO</p>	<p>SHEET NO. 1</p> <p>7</p> <p>PAGE NO. 1</p> <p>14</p> <p>16</p>
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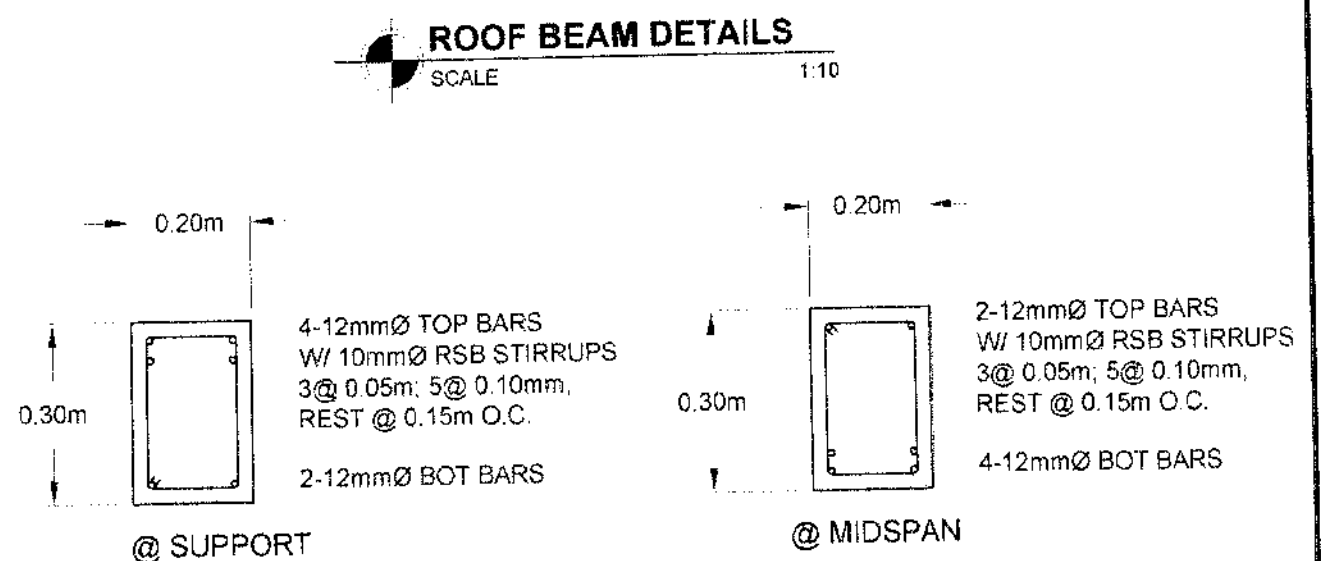
TYPICAL SECTION DETAILS
SCALE 1:10



C1 / F1 DETAILS
SCALE 1:10



LINTEL BEAM DETAILS
SCALE 1:10



ROOF BEAM DETAILS
SCALE 1:10

GRADE BEAM DETAILS
SCALE 1:10

<p>IMPLEMENTING AGENCY</p> <p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF AGRICULTURE</p> <p>WESTERN VISAYAS PAROLA, ILOILO CITY</p>	<p>PROJECT NAME & LOCATION</p> <p>ESTABLISHMENT OF POBLACION ILAYA, SOLAR POWERED IRRIGATION PROJECT (SPIP)</p> <p>BRGY. POBLACION ILAYA, DAO, CAPIZ</p>	<p>SHEET CONTENTS</p> <p>AS SHOWN</p>	<p>PREPARED BY</p> <p>MELVIN D. MASONO, ABE</p>	<p>REVIEWED BY</p> <p>YVONNE GRACE H. SUR, ABE</p>	<p>RECOMMENDING APPROVAL</p> <p>MOISES D. MANA-AYABE, MEE</p>	<p>APPROVED BY</p> <p>ENGR. JOSE ALBERT A. BARRIDO</p>	<p>SHEET NO.</p> <p>8</p> <p>PAGE NO.</p> <p>15</p>
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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
REGIONAL FIELD OFFICE VI
PAROLA, ILO LO CITY

- THE BILLBOARD SHALL BE INSTALLED IN FRONT OF THE PROJECT SITE.

[illegible]


FRONT ELEVATION
SCALE
NTS

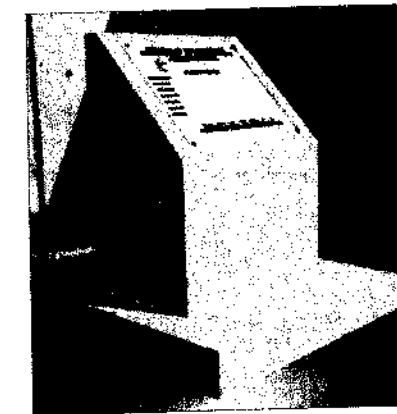
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COAREGIONAL OFFICE NO./CLUSTER _____
ADDRESS _____
CONTACT NO. _____ OR TEXT COACITIZEN'S DESK AT 0915-5391957

TARPAULIN, WHITE, 8 FT x 8 FT
RESOLUTION: 70 DPI
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SUB INFORMATION - 2"
FONT COLOR: BLACK

[illegible]


 SIDE ELEVATION
 SCALE
 NTS



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE

HEADQUARTERS
PASAYEN CITY

PLANT PROTECT

NAME OF PLANT
LOCATION
PLANTING ORGAN
EXAMINER(S)
SERVICE AREA
PLANT CODE NO.

**STAINLESS STEEL PLATE
W/ ENGRAVE LETTERING**



PERSPECTIVE
SCALE NTS

The diagram shows a square slab with overall dimensions of 1.40m by 1.30m. A central square area of 1.00m by 0.70m is highlighted with a grid of reinforcement bars. The reinforcement consists of 10mm diameter DCSW bars. The grid shows 5 bars horizontally and 4 bars vertically within the central area, with additional bars extending to the edges of the slab.

 **PLAN**
SCALE NTS

[illegible]

FRONT ELEVATION
SCALE NTS

0.10m

1.30m

0.70m

SLOPE 1.7

NGL

0.10m THK. LEVELING COURSE

RIGHT CHIEF W/ PLEASTERING 0.1 THK

 SIDE ELEVATION
SCALE NTS



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

PROJECT NAME & LOCATION :	ESTABLISHMENT OF POBLACION LAYA, SOLAR POWERED IRRIGATION PROJECT (SPIS)
	BRGY. POBLACION LAYA, DAO, CAPEZ

AS SHOWN

CAD BY : RY LASTER/PE/CP SILVA

MELVIN B. HAGONOR, ABE

YVONNE GRACE H. SUR, ASE
 10000 E. 10th Ave. Suite 100
 Denver, CO 80231-1000

~~MOISES D. MANA-AY, ABE, MEE~~
~~Engineer IV (License No. 00-0077)~~
~~Ch. Const. (A/E/C)~~

ENGR. JOSE ALBERT A. BARROGO

A
B

$$\frac{16}{16}$$