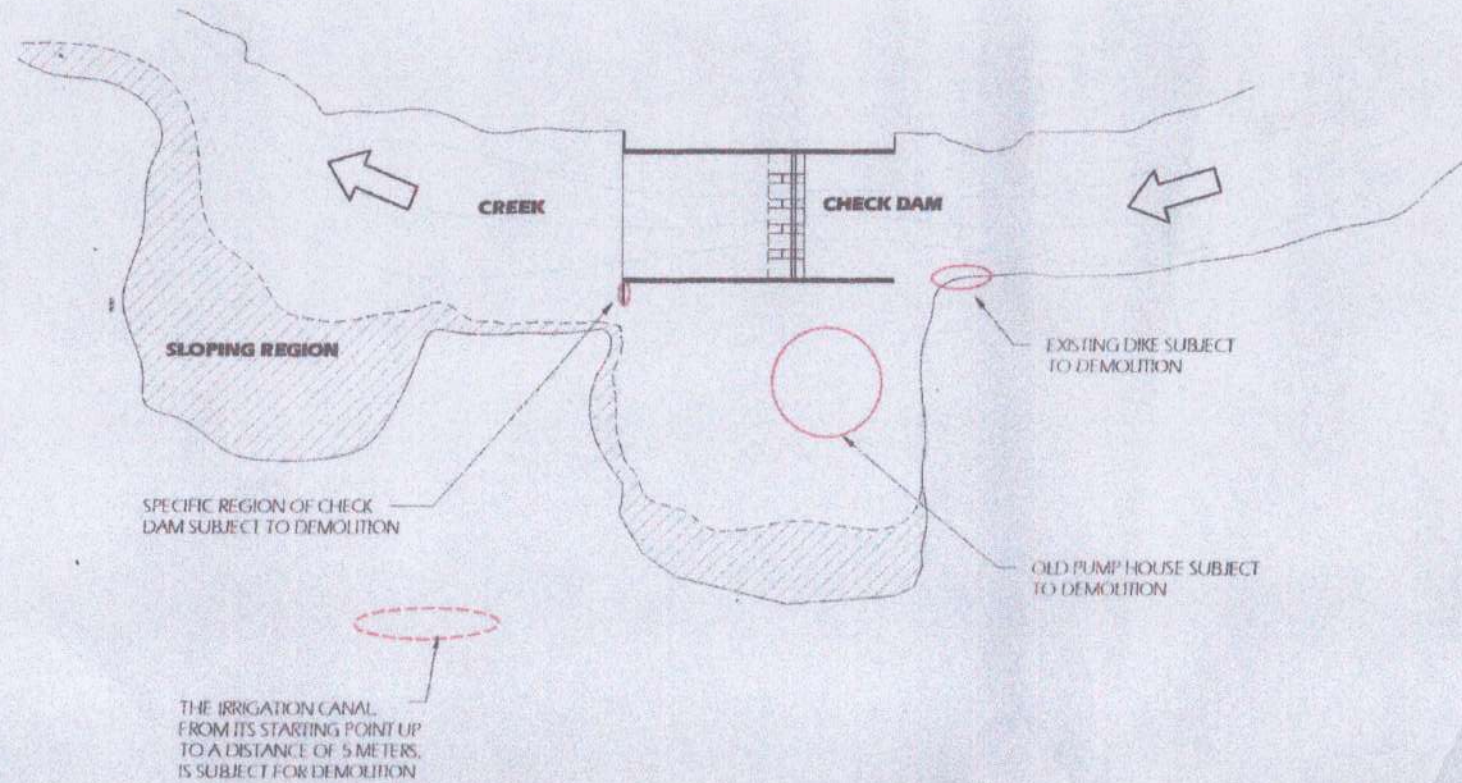


DEMOLITION WORKS



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PGDH-PROV'L AGRICULTURE OFFICE

Approved:

[Signature]
RAU N. BANIAS, MD, MPA
PROVINCIAL ADMINISTRATOR

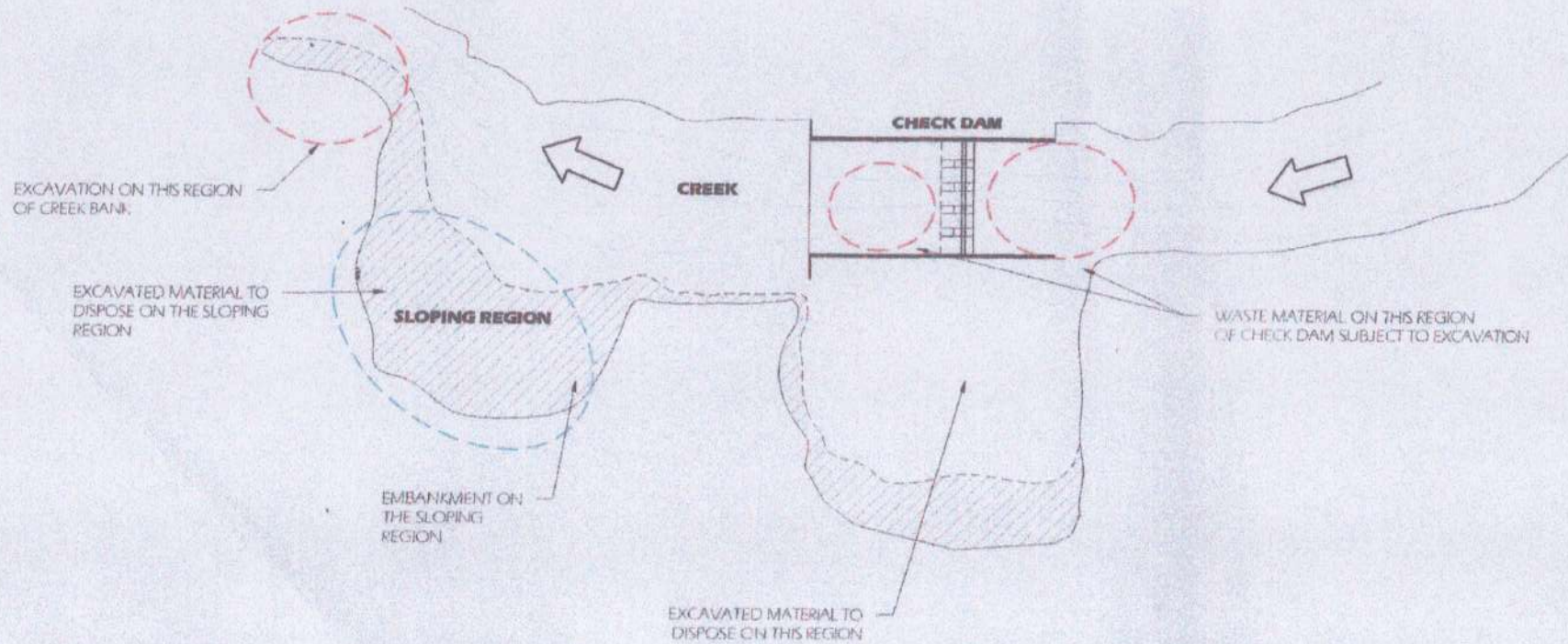
Project title / Location:

**IMPROVEMENT OF MANGUNA
CHECK DAM**
BRGY. MANGUNA, CABATUAN, ILOLO

Sheet No.:

1/17

EXCAVATION WORKS



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RAUL N. BANIAS, MD, MPA
PROVINCIAL ADMINISTRATOR

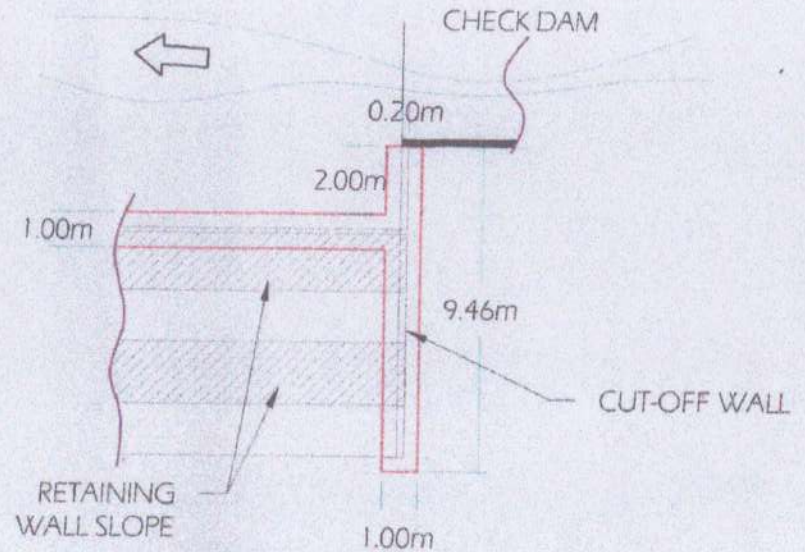
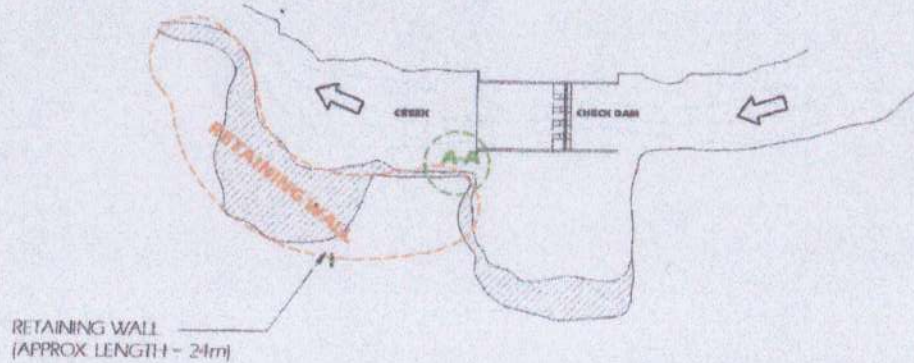
Project title / Location:

IMPROVEMENT OF MANGUNA
CHECK DAM
BRGY. MANGUNA, CABATUAN, ILOILO

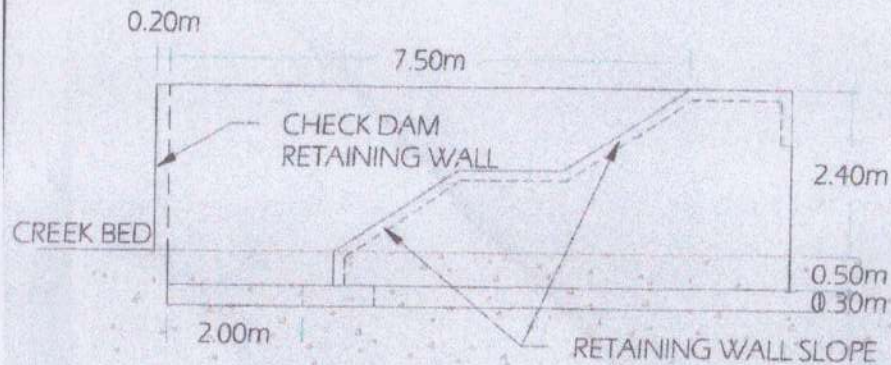
Sheet No.:

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RETAINING WALL (DOWNSTREAM)



FOUNDATION PLAN (A-A)



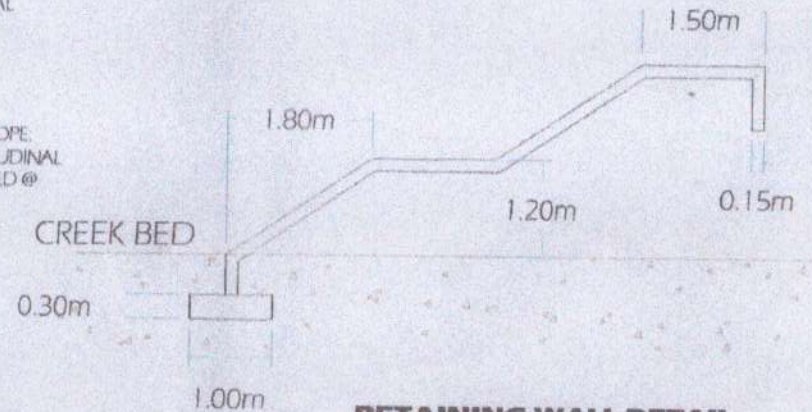
CUT-OFF WALL DETAIL

FOR CUT-OFF WALL:
USE 12mmØ RSB VERTICAL
AND HORIZONTAL BARS
SPACED @
0.3m O.C.

FOR RETAINING WALL SLOPE:
USE 12mmØ RSB LONGITUDINAL
AND ACROSS BARS SPACED @
0.3m O.C.

CONCRETE CLASS: A

FOR FOOTING:
USE 5pcs-12mmØ RSB
MAINBARS WITH
12mm DIA. RSB TIES
SPACED @ 0.2m O.C.



RETAINING WALL DETAIL



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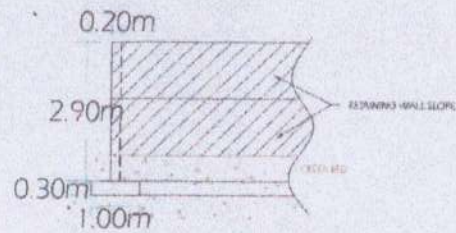
Project title / Location:

**IMPROVEMENT OF MANGUNA
CHECK DAM**
BRGY. MANGUNA, CABATUAN, ILOILO

Sheet No.

3/17

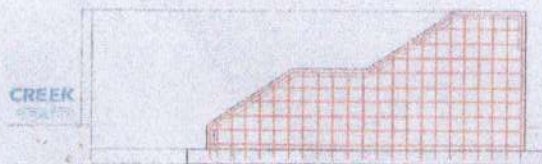
RETAINING WALL (DOWNSTREAM)



FRONT ELEVATION

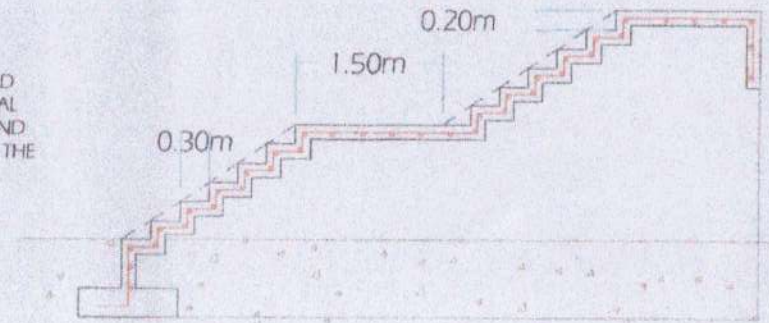


RSB DETAIL (START)

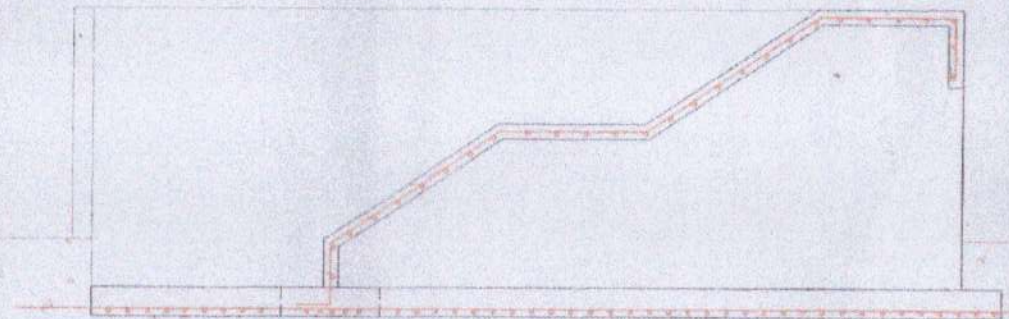


RSB DETAIL (END)

FOR STAIRS (1 UNIT):
1.00m X 0.15m THK STAIRS REINFORCED
WITH 2PCS-12mmØ RSB LONGITUDINAL
BARS SPACED @ 0.50m ON CENTER AND
12mmØ RSB ACROSS BARS - REFER ON THE
LAYOUT



RSB DETAIL (STAIRS)



RSB DETAIL (SLOPE)



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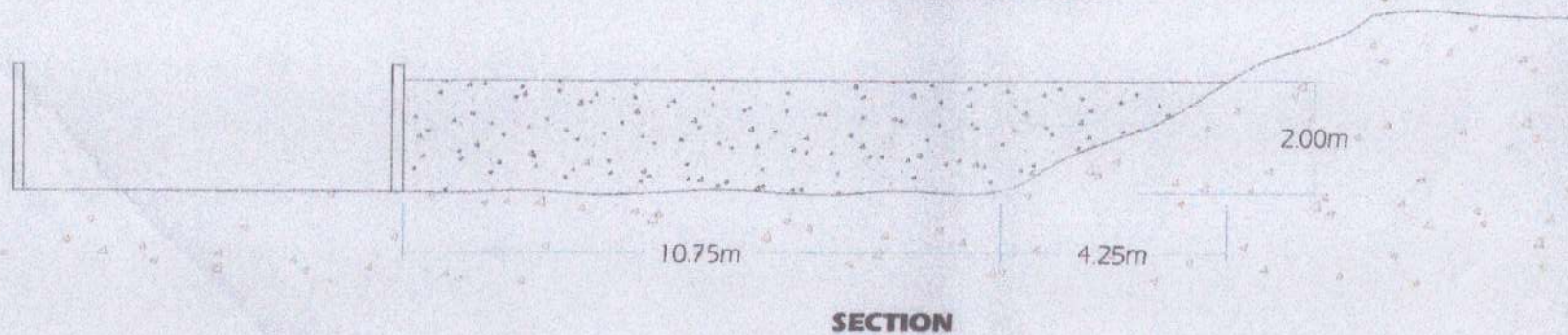
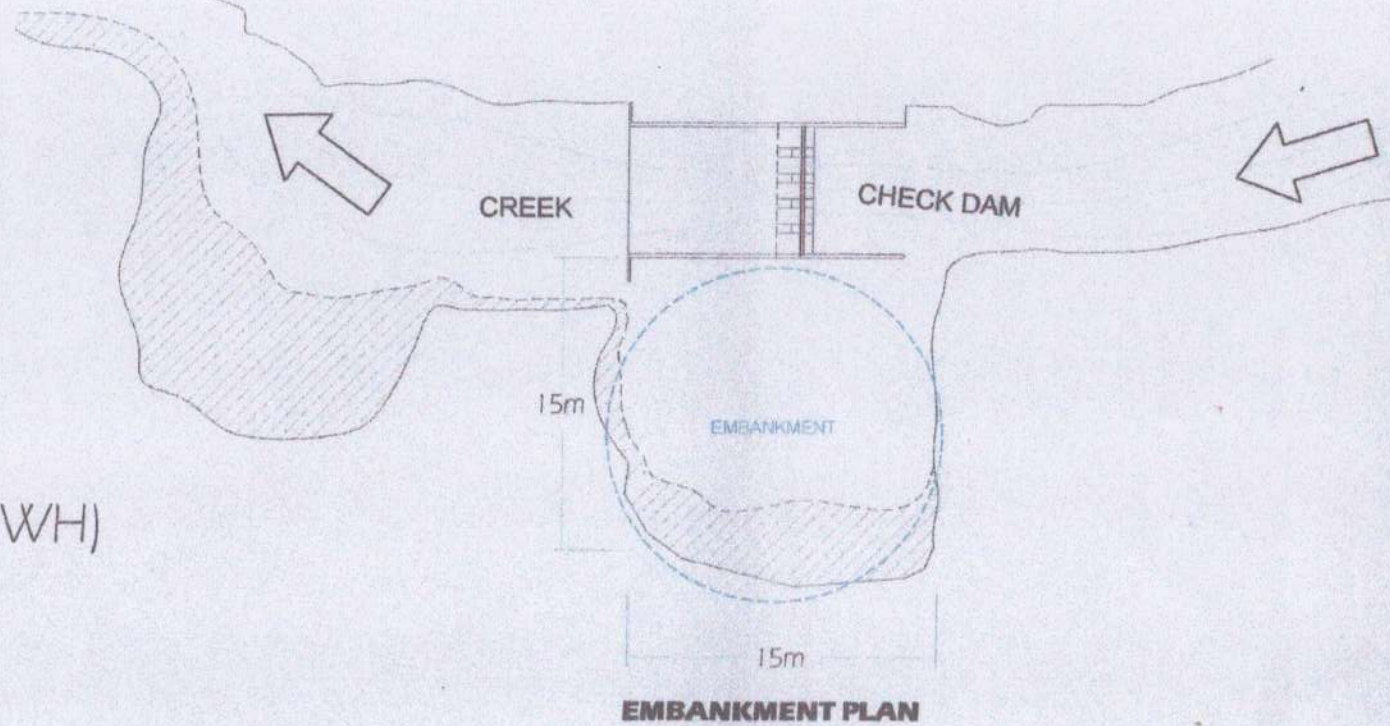
**IMPROVEMENT OF MANGUNA
CHECK DAM**
BRGY. MANGUNA, CABATUAN, ILOILO

Sheet No.


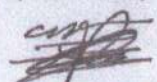
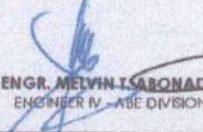
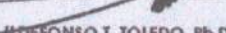
4/17

EMBANKMENT

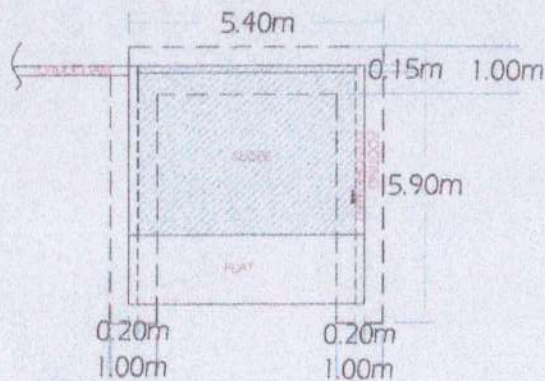
EMBANKMENT:
 15m X 15m X 2.00m (LWH)
 = Approx. 450.0 cu.m



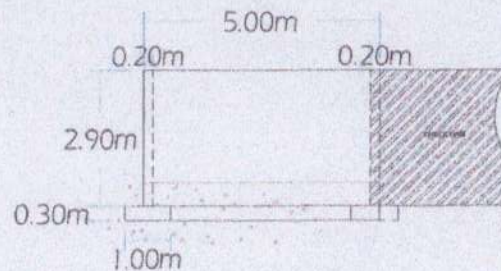
SECTION

 <p>Republic of the Philippines Province of Iloilo Provincial Agriculture Office 5th Floor, Provincial Capitol, Iloilo City</p>	<p>Prepared and CAD by:</p>  <p>ENGR. BRYAN JY S. LAOS CLERK III (JOSS)</p>	<p>Checked by:</p>  <p>ENGR. MELVIN T. SABONADO ENGINEER IV - A&E DIVISION</p>	<p>Recommending Approval:</p>  <p>ILDEFONSO T. TOLEDO, Ph.D. PGDH-PROV'L AGRICULTURE OFFICE</p>	<p>Approved:</p>  <p>RAUL N. BANIAS, MD, MPA PROVINCIAL ADMINISTRATOR</p>	<p>Project title / Location:</p> <p>IMPROVEMENT OF MANGUNA CHECK DAM BROGY, MANGUNA, CABATUAN, ILOLO</p>	<p>Sheet N</p> <p>5/1</p>
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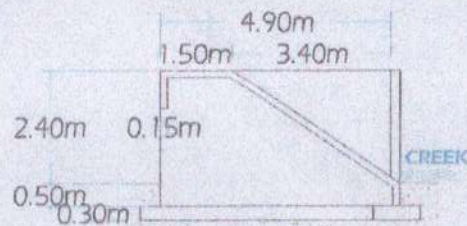
RETAINING WALL (UPSTREAM)



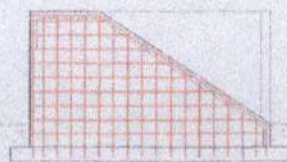
FOUNDATION PLAN



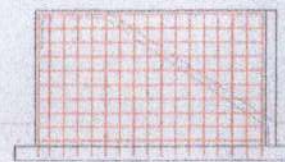
FRONT ELEVATION



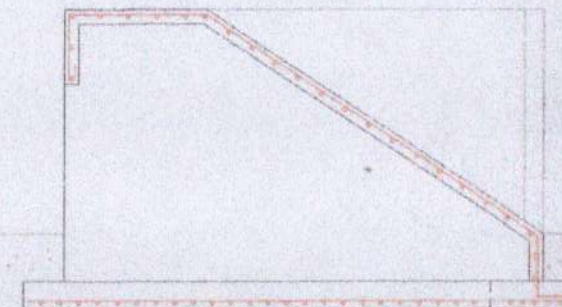
SIDE ELEVATION



RSB DETAIL (START)



RSB DETAIL (END)



RSB DETAIL (SLOPE)

FOR CUT-OFF WALL:
USE 12mmØ RSB VERTICAL
AND HORIZONTAL BARS SPACED @
0.3m O.C.

FOR RETAINING WALL SLOPE:
USE 12mmØ RSB LONGITUDINAL
AND ACROSS BARS SPACED @ 0.3m O.C.

CONCRETE CLASS A

FOR FOOTING:
USE 5pcs-12mmØ RSB MAINBARS WITH
12mm DIA. RSB TIES SPACED @ 0.2m O.C.



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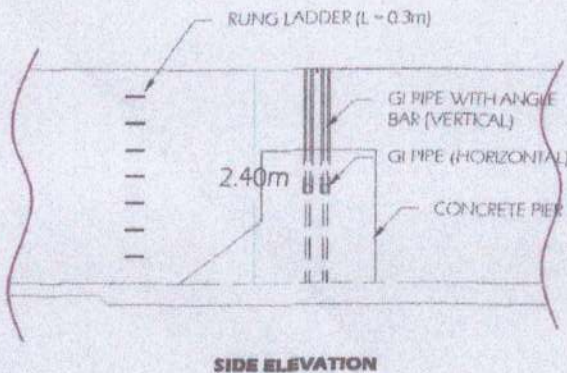
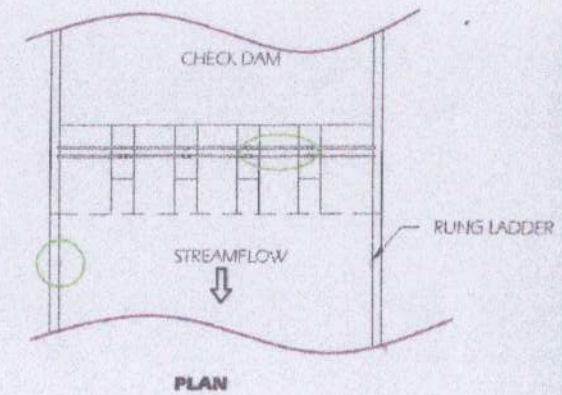
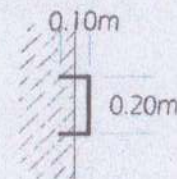
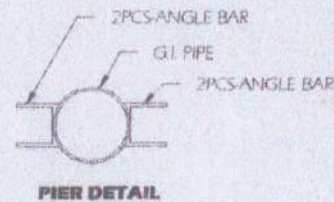
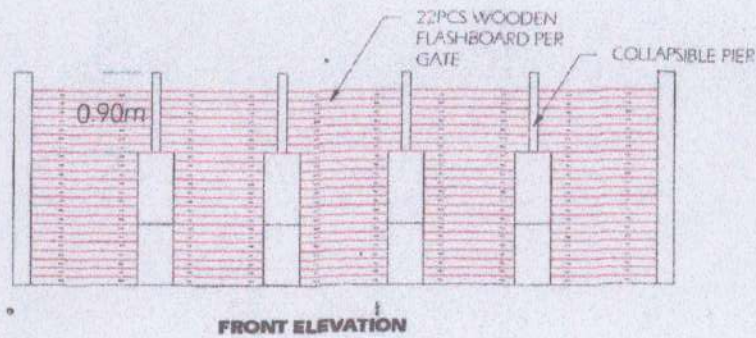
Project title / Location:

IMPROVEMENT OF MANGUNA
CHECK DAM
BRGY. MANGUNA, CABATUAN, ILOILO

Sheet No.

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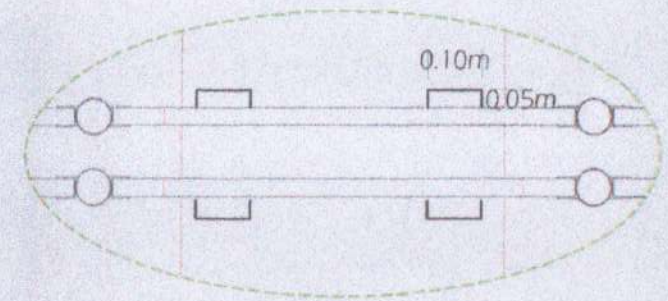
DAM GATES



FOR WOODEN GATE:
USE 2" X 4" X 10" WOODEN FLASHBOARD ATTACHED WITH 2PCS - 10mm Ø RSB FOR HANDLE (L = 0.20m PER HANDLE) ON ONE SIDE

FOR COLLAPSIBLE PIER:
USE 4" Ø GI PIPE SCHEDULE 40 FULLY-WELDED WITH 4PCS - 2" X 2" X 3/8" ANGLE BAR

FOR RUNG LADDER:
USE 16PCS-12mm Ø RSB SPACED @ 0.30m O.C. (L = 0.40m) ON BOTH SIDES



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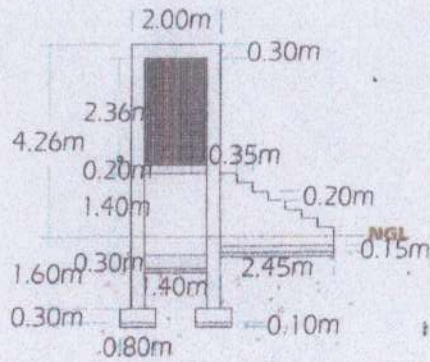
Project title / Location:

IMPROVEMENT OF MANGUNA
CHECK DAM
BRGY. MANGUNA, CABATUAN, LOILO

Sheet No.

7/11

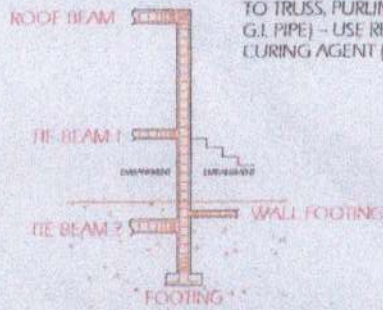
PUMPHOUSE



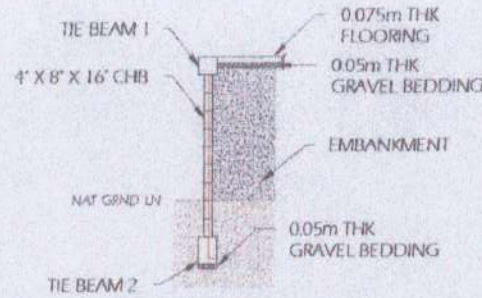
SIDE ELEVATION

PLASTERING WORKS:
12mm THK PLASTER (CLASS B)

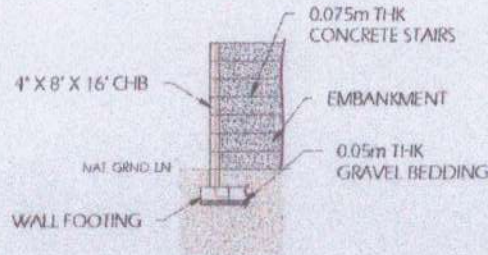
PAINTING WORKS:
ON ALL METAL SURFACES (INCLUDE TO TRUSS, PURLINS, STEEL MATTING, G.I. PIPE) - USE RED OXIDE PRIMER W/ CURING AGENT (DOUBLE COATED)



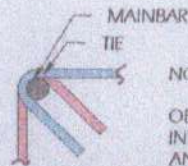
REBAR DETAIL



CHB WALL DETAIL

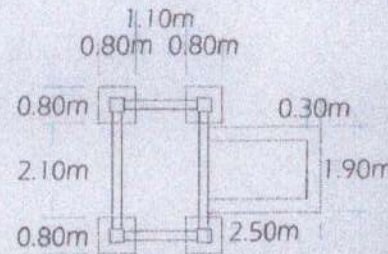


STAIR CUT-OFF WALL DETAIL

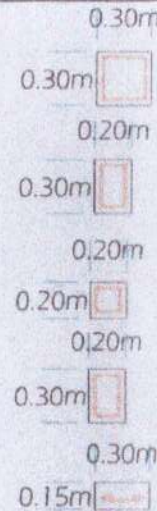


TIE INTERLOCKING DETAIL

NOTE:
OBSERVE PROPER TIE INTERLOCKING FOR TIES AND STIRRUPS



FOUNDATION DETAIL



FOR COLUMN:
USE 4pcs-12mm \varnothing RSB MAINBARS WITH 10mm \varnothing RSB TIES SPACED @ 3-0.05m, 3-0.10m, AND REST @ 0.20m ON BOTH ENDS

FOR ROOF BEAM:
USE 4pcs-12mm \varnothing RSB MAINBARS WITH 10mm \varnothing RSB TIES SPACED @ 3-0.05m, 3-0.10m, AND REST @ 0.20m ON BOTH ENDS

FOR TIE BEAM 1:
USE 4pcs-12mm \varnothing RSB MAINBARS WITH 10mm \varnothing RSB TIES SPACED @ 3-0.05m, 3-0.10m, AND REST @ 0.20m ON BOTH ENDS

FOR TIE BEAM 2:
USE 4pcs-12mm \varnothing RSB MAINBARS WITH 10mm \varnothing RSB TIES SPACED @ 3-0.05m, 3-0.10m, AND REST @ 0.20m ON BOTH ENDS

FOR WALL FOOTING:
USE 2pcs-12mm \varnothing RSB MAINBARS WITH 10mm \varnothing RSB TIES SPACED @ 0.20m O.C.

FOR FOOTING:
USE 10pcs-12mm \varnothing RSB MATBARS SPACED AT 0.20m O.C.

FOR STAIRS CUT-OFF WALL:
USE 4' X 8' X 16' CHB ON BOTH ENDS, REINFORCED WITH 10mm \varnothing RSB VERTICAL BARS SPACED @ 0.20m O.C. WITH 10mm \varnothing RSB HORIZONTAL BARS SPACED AT EVERY LAYER OF CHB

FOR FLOORING WALL:
USE 4' X 8' X 16' CHB ON FOUR SIDES REINFORCED WITH 10mm \varnothing RSB VERTICAL BARS SPACED @ 0.20m O.C. WITH 10mm \varnothing RSB HORIZONTAL BARS SPACED AT EVERY 2 LAYERS OF CHB

FOR FLOORING:
0.075m THK FLOORING (LENGTH & WIDTH REFER TO PLAN) REINFORCED WITH 10mm \varnothing RSB MATBARS SPACED @ 0.20m O.C.

CONCRETE CLASS: A



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PGDH-PROV'L AGRICULTURE OFFICE

Approved:

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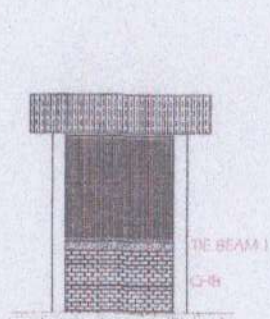
Project title / Location:

IMPROVEMENT OF MANGUNA
CHECK DAM
BRGY. MANGUNA, CABATUAN, ILOILO

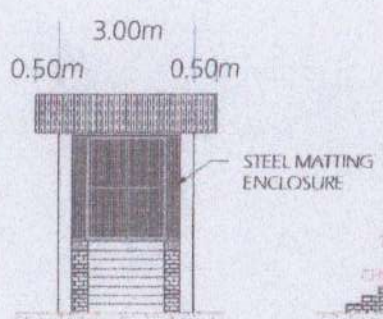
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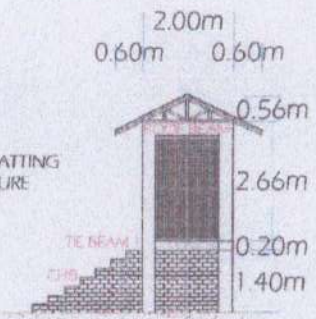
PUMPHOUSE



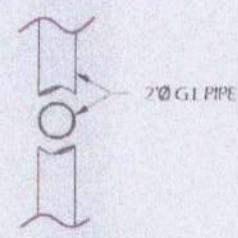
REAR ELEVATION



FRONT ELEVATION



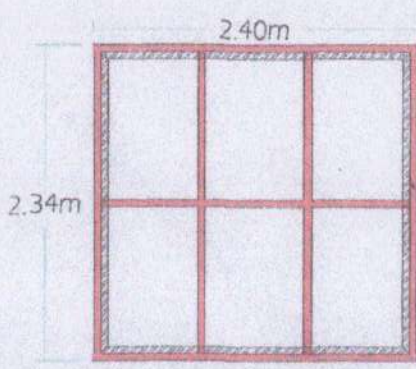
SIDE ELEVATION



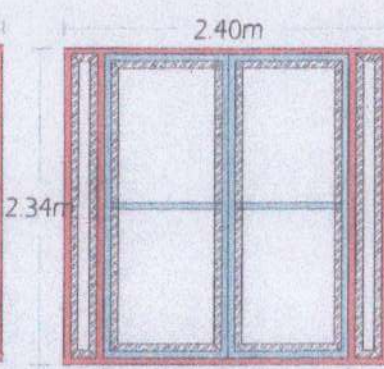
PIPE CONNECTION DETAIL (B-B)



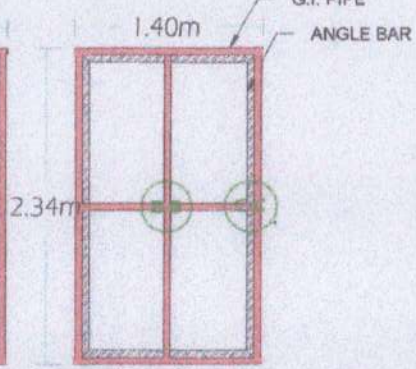
STEEL MATTING CONNECTION DETAIL (C-C)



REAR FRAME DETAIL



FRONT FRAME DETAIL



SIDE FRAME DETAIL

FOR FRAME (B-B):
USE 2" G.I. PIPE SCH. 20 FOR ALL MEMBERS - SHAPED AND FULLY WELDED TO CONNECT PIPES

FOR ENCLOSURE (C-C):
USE #6 STEEL MATTING WELDED ON 2" X 2" X 1/8" ANGLE BAR (WELDED ON G.I. PIPE)



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ENGINEER IV - AGRICULTURE DIVISION

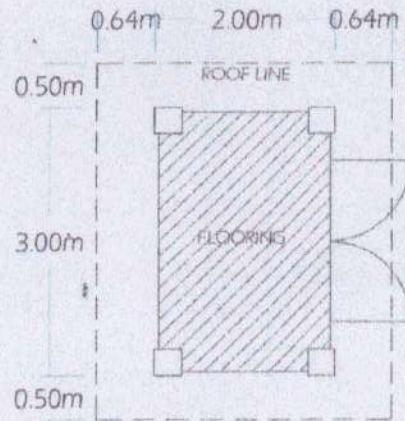
Recommending Approval:
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PGDH-PROVL AGRICULTURE OFFICE

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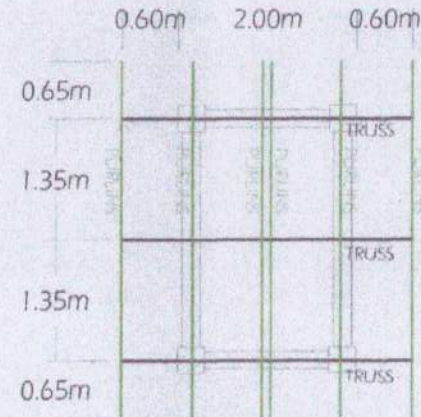
Project title / Location:
IMPROVEMENT OF MANGUNA CHECK DAM
BROY, MANGUNA, CABATUAN, ILOILO

Sheet No
9/17

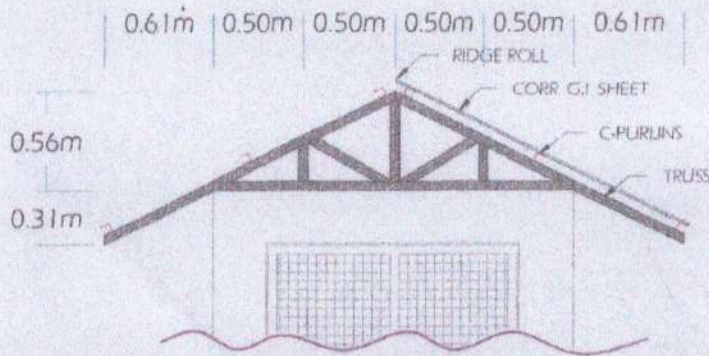
PUMPHOUSE



PLAN



ROOF FRAMING DETAIL



TRUSS DETAIL

FOR TRUSS
USE 2" X 2" X $\frac{3}{8}$ " ANGLE BAR FOR ALL MEMBERS.

FOR RAFTER:
USE 2" X 3" X 1.5mm LIGHT GAUGE C-PURLIN

FOR ROOFING:
USE #26 ORDINARY CORRUGATED G.I. SHEET FASTENED AND SEALED WITH 2 $\frac{1}{2}$ " UMBRELLA NAILS AND SEALANT
USE #26 ORDINARY G.I. RIDGE ROLL ON TOP OF THE ROOFING



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Checked by:

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ENGINEER IV (ARE DIVISION)

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PGDI/PROVL AGRICULTURE OFFICE

Approved:

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PROVINCIAL ADMINISTRATOR

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IMPROVEMENT OF MANGUNA
CHECK DAM
BRGY. MANGUNA, CABATUAN, ILOILO

Sheet 1

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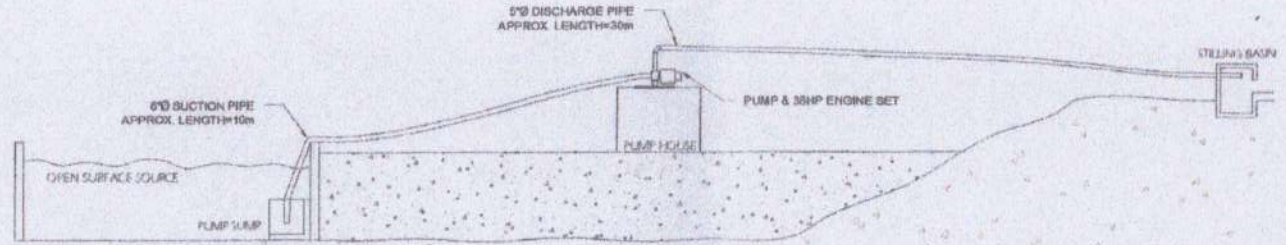
PUMP & ENGINE SET

SPECIFICATIONS:

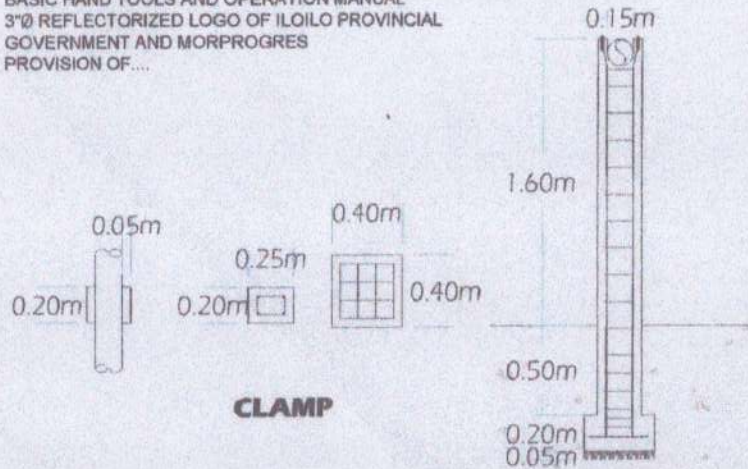
PUMP:
 END SUCTION CENTRIFUGAL PUMP WITH 8" SUCCTION AND 5" DISCHARGE, SINGLE STAGE, BRONZE-FITTED CONSTRUCTED WITH MECHANICAL SEAL, CAPABLE OF DELIVERING 1000 GAL PER MINUTE AGAINST A 20-METER TDH @ 1800 RPM. PUMP AND ENGINE IS MOUNTED ON A STEEL BASE FRAME

ENGINE:
 BRAND NEW DIESEL ENGINE, FOUR CYLINDER MAXIMUM OUTPUT OF 38 HP, WATER-COOLED, AND COMPLETE WITH HEAVY DUTY FRAME AND FUEL TANK

ACCESSORIES:
 6" HPP PIPES
 6" C.I. FOOTVALVE
 6" GATE VALVE
 6" CHECK VALVE
 BASIC HAND TOOLS AND OPERATION MANUAL
 3" REFLECTORIZED LOGO OF ILOILO PROVINCIAL GOVERNMENT AND MORPROGRES
 PROVISION OF....



ELEVATION



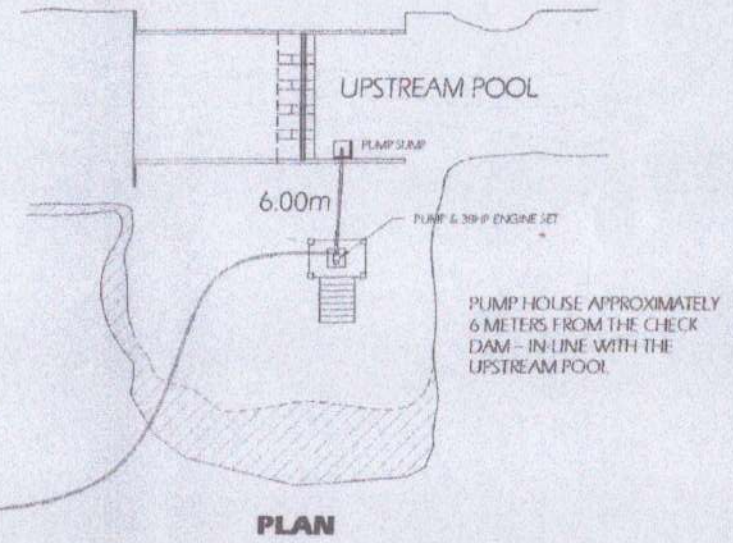
CLAMP

FOR COLUMN:
 USE 4PCS-10mm ϕ RSB MAINBARS WITH 10mm ϕ RSB TIES @ 3-0.05m, 3-0.10m AND REST @ 0.15m O.C.

FOR FOOTING:
 USE 8PCS-10mm ϕ RSB MATBARS SPACE AS SHOWN

NOTE: CONSTRUCT CLAMP FOR EVERY 5-METER LENGTH OF BOTH SUCTION AND DISCHARGE PIPE

CONCRETE CLASS: C



PLAN



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 PGDH-PROVL AGRICULTURE OFFICE

Approved:

[Signature]
RAUL N. BANIAS, MD, MPA
 PROVINCIAL ADMINISTRATOR

Project title / Location:

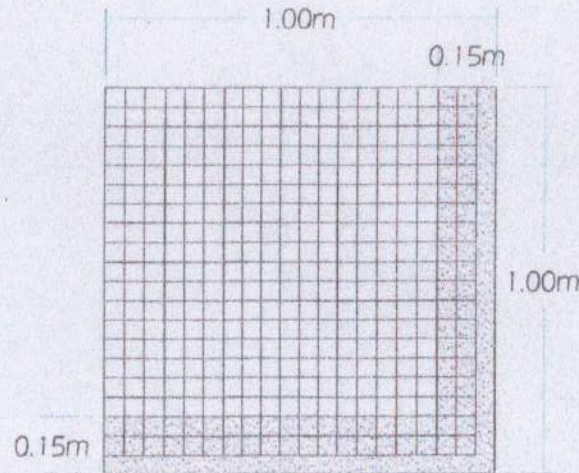
IMPROVEMENT OF MANGUNA CHECK DAM
 BRGY. MANGUNA, CABATUAN, ILOILO

PUMP SUMP

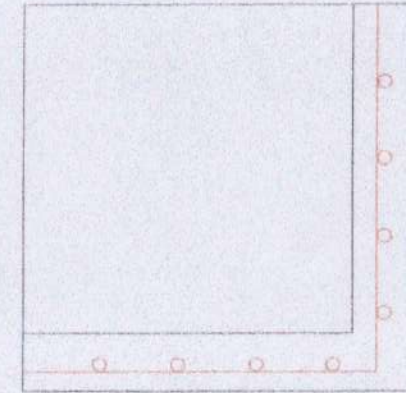
FOR REINFORCEMENT:
 USE 12mm \varnothing RSB VERTICAL AND HORIZONTAL
 BARS SPACED @ 0.2m O.C. FOR THE SIDES AND
 USE 12mm \varnothing RSB MATBARS SPACED @ 0.2m O.C.
 FOR THE BASE

FOR SCREEN:
 USE 12mm \varnothing RSB SCREENED BARS SPACED @
 0.05m O.C. WITH 16mm \varnothing RSB FRAME

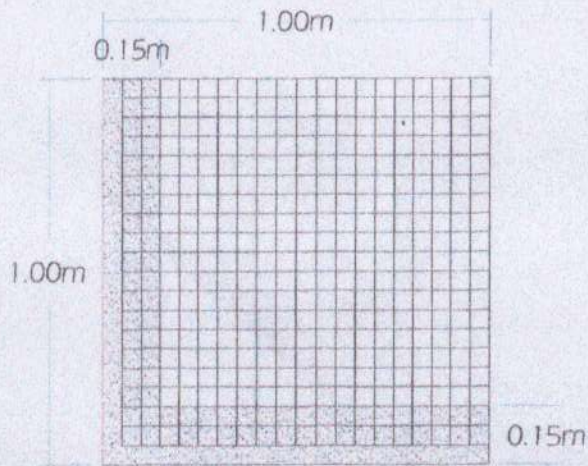
CONCRETE CLASS: B



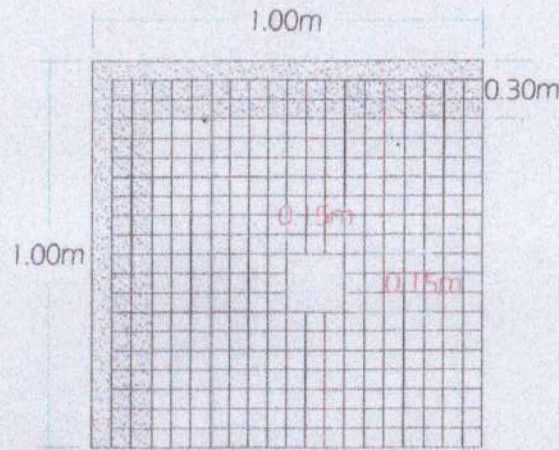
RIGHT ELEVATION



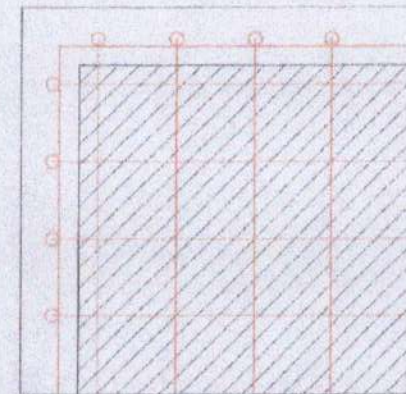
REBAR DETAIL (SIDE)



LEFT ELEVATION



TOP ELEVATION



REBAR DETAIL (TOP)



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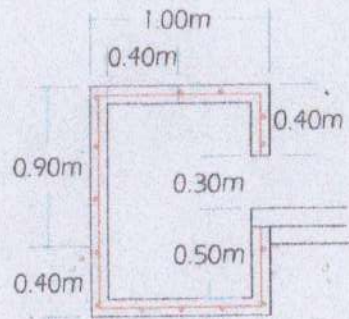
Project title / Location:

IMPROVEMENT OF MANGUNA
 CHECK DAM
 BRGY. MANGUNA, CABATUAN, ILOILO

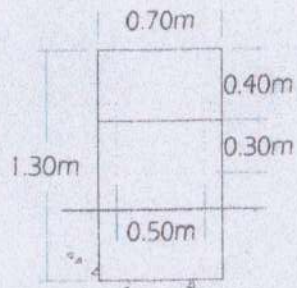
Sheet N

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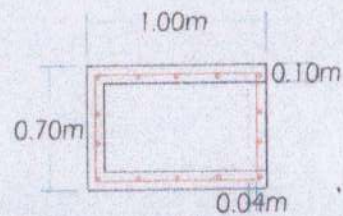
STILLING BASIN



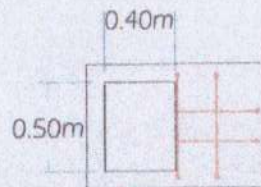
SIDE SECTION



FRONT ELEVATION



TOP SECTION



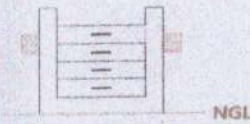
TOP ELEVATION

FOR STILLING BASIN BOTTOM & TOP
USE 10mm \varnothing RSB MATBARS SPACED @ 0.3m O.C

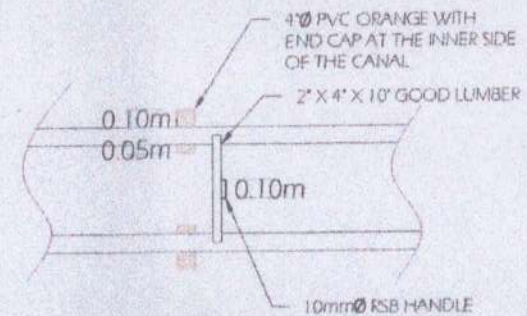
FOR STILLING BASIN WALL
USE 10mm \varnothing RSB VERTICAL AND HORIZONTAL BARS SPACED AS SHOWN

CONCRETE CLASS B

CANAL GATES



CANAL GATE FRONT ELEVATION



CANAL GATE TOP ELEVATION



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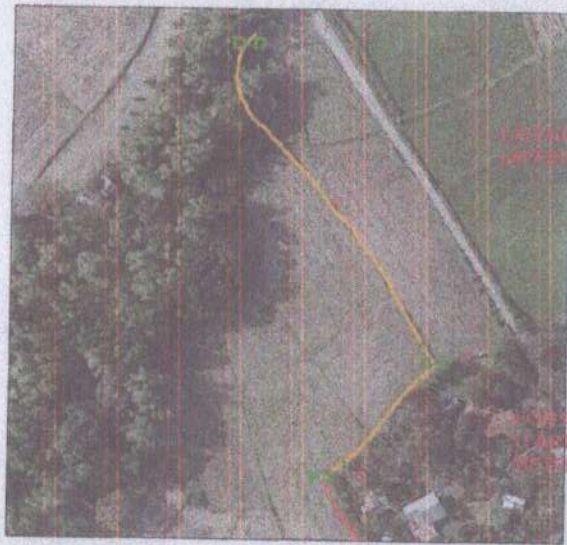
Project title / Location:

IMPROVEMENT OF MANGUNA
CHECK DAM
BRGY. MANGUNA, CABATUAN, LOLO

Sheet

13

CANAL (1000 LINEAR METERS)



EXISTING CANAL
(APPROX. LENGTH = 200m)

REPAIR OF CANAL ON
THIS SECTION

NEW CONSTRUCTION OF CANAL
STARTS HERE UNTIL 775
METERS FROM THAT POINT

FOR EXISTING CANAL (200m):

1. THE ENTIRE LENGTH OF EXISTING CANAL IS SUBJECT TO CLEARING AND GRUBBING.
2. THE SECTION OF THE CANAL EXTENDING FROM ITS INITIAL POINT TO A DISTANCE OF FIVE METERS FROM THE STARTING POINT IS SUBJECT FOR DEMOLITION - (114).
3. CONSTRUCT NEW CONCRETE BRACING IN REGIONS OF THE EXISTING CANAL WHERE THE OLD BRACING IS MISSING. EVERY FIVE METER IS SPACED WITH CONCRETE BRACING. REFER TO PAGE 13 FOR THE DETAILS.
4. ADD CONCRETE INSIDE THE CANAL TO CREATE SLOPE = 0.05%

DISTANCE, m	HEIGHT, cm
0+000	10
0+020	9
0+040	8
0+060	7
0+080	6
0+100	5
0+120	4
0+140	3
0+160	2
0+180	1
0+200	0

5. DEMOLISH THE DAMAGED REGION OF THE EXISTING CANAL IN (114) AND CONNECT BOTH REGIONS OF THE EXISTING CANAL BY BUILDING A NEW CANAL IN THAT REGION. REFER TO THIS PLAN'S PAGE 13 FOR THE DESIGN.
6. NEW CANAL CONSTRUCTION WILL BEGIN AT (114) AND WILL BE ATTACHED TO THE EXISTING CANAL.



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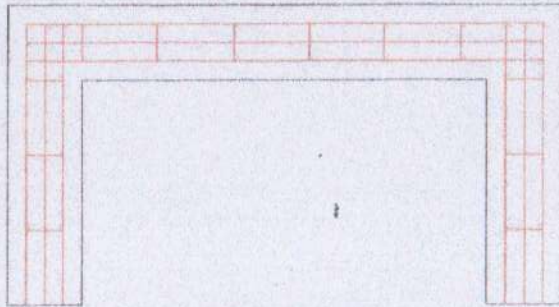
Project title / Location:

IMPROVEMENT OF MANGUNA
CHECK DAM
BRGY. MANGUNA, CABATUAN, ILOILO

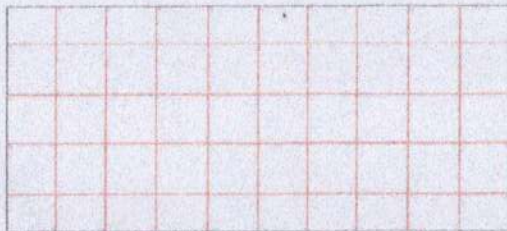
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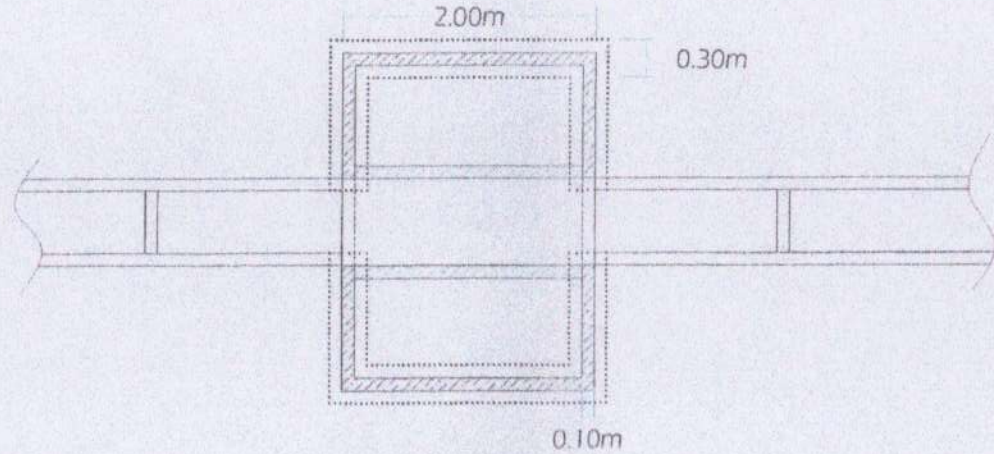
RAMP (5 UNITS)



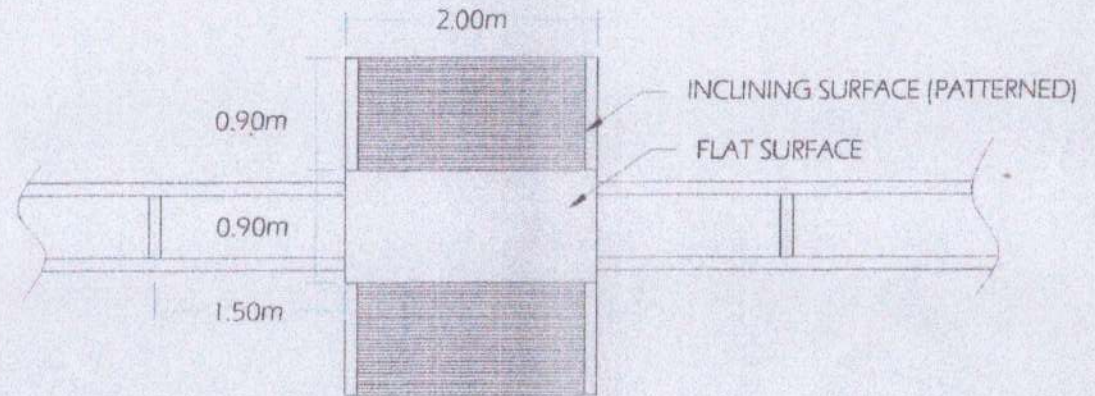
FOOTING DETAIL



FLAT DETAIL



FOUNDATION PLAN



TOP ELEVATION



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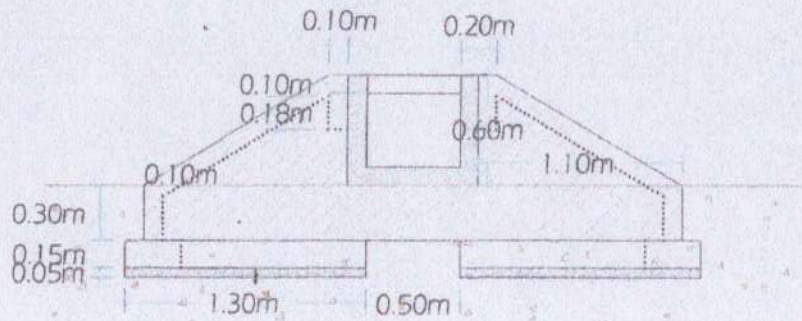
Project title / Location:

**IMPROVEMENT OF MANGUNA
CHECK DAM**
BROY, MANGUNA, CABATUAN, ILOILO

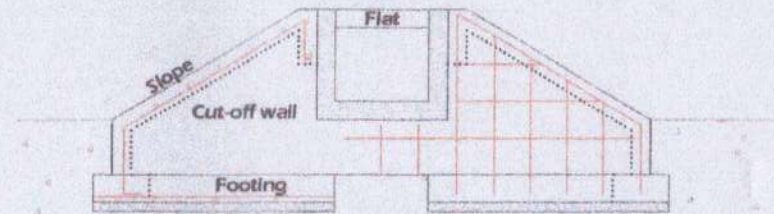
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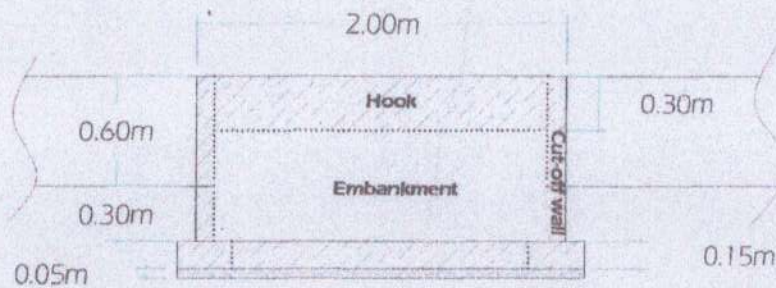
RAMP (5 UNITS)



SIDE ELEVATION



REBAR DETAIL



FRONT ELEVATION

FOR SLOPE:
USE 10mm \varnothing RSB LONGITUDINAL BARS SPACED @ 0.2m O.C. WITH 10mm \varnothing RSB ACROSS BARS SPACED @ 0.3m O.C.

FOR CUT-OFF WALL:
USE 10mm \varnothing RSB VERTICAL BARS SPACED @ 0.2m O.C. WITH 10mm \varnothing RSB HORIZONTAL BARS SPACED @ 0.3m O.C.

FOR FLAT:
USE 10mm \varnothing RSB MATBARS SPACED @ 0.2m O.C.

FOR FOOTING:
USE 3pcs-10mm \varnothing RSB MAINBARS WITH 10mm DIA. RSB STIRRUPS SPACED @ 0.3m O.C.



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Project title / Location:

IMPROVEMENT OF MANGUNA
CHECK DAM
BRGY. MANGUNA, CABATUAN, ILOILO

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