

Republic of the Philippines
DEPARTMENT OF AGRICULTURE
Regional Field Unit No. 5
San Agustin, Pili, Camarines Sur

Project Title: Construction of Canal Extension of Catanusan
Project Location: Brgy. Catanusan, Juban, Sorsogon
Appropriation: P 4,444, 999. 53
Source of fund : Rice 2022
Subject: BILL OF QUANTITIES AND COST PROPOSAL

Classification: Irrigation Facility
Number of Unit: 1
Net Length:
Project Duration : 150 C.D.
Starting Date: upon receipt of NTP

Scope of Work: -Delivery of Labor and Materials for the Construction of Concrete Canal Lining
-Construction of Canal Structure (Division Box, Tractor Crossing, etc.)

MINIMUM EQUIPMENT REQUIREMENT		
Description	No.	Description
Dump Truck	1	3-5 m ³
Electric Bar Cutter	1	12" Diameter Disc
Mechanical Tamper	1	3-5 HP Gas Driven
Concrete Mixer	1	1 Bagger
Hand Tools	enough	

TECHNICAL PERSONNEL REQUIRED		
Description	No.	Description
Foreman	1	
Asst. Foreman	1	
Safety Officer	1	Part Time

COST OF PROPOSED WORK						
Item	Description		Quantity	Unit	Unit Cost (PhP)	Total Amount (PhP)
General Requirements						
1.0	SPL2	Construction of Camp, Temporary Facilities & Movement of Equipment	1	L.S.		
2.0	SPL3	Construction Safety and Health	1	L.S.		
Sub-total						
3.0 Canal Works 1207 "l.m.						
	102(2)	Common Excavation	495.00	cu.m.		
	515(3)	Structural Backfill/backfilling	247.00	cu.m.		
	900(2)a	Concrete Class "B" With Forms	186.04	cu.m.		
	900(2)b	Concrete Class "B" Without Forms	126.63	cu.m.		
	404(1)a	Reinforcing Steel Bars	11588.61	kgs		
	200(1)	AggregateSub Base Course	126.63	cu.m.		
Sub-total						
4.0 End Check 1 "unit						
	102(2)	Common Excavation	0.50	cu.m.		
	515(3)	Structural Backfill/backfilling	0.25	cu.m.		
	900(2)a	Concrete Class "B" With Forms	0.50	cu.m.		
	404(1)a	Reinforcing Steel Bars	6.00	kgs		
	200(1)	AggregateSub Base Course	0.10	cu.m.		
	SPL1	Wooden Flush Board (Yakal)	1.00	bd.ft		
Sub-total						
5.0 Division Box 1 "unit						
	102(2)	Common Excavation	1.20	cu.m.		
	515(3)	Structural Backfill/backfilling	0.40	cu.m.		
	900(2)a	Concrete Class "B" With Forms	0.35	cu.m.		
	900(2)b	Concrete Class "B" Without Forms	0.20	kgs		
	404(1)a	Reinforcing Steel Bars	15.00	cu.m.		
	200(1)	AggregateSub Base Course	0.23	cu.m.		
	SPL1	Wooden Flush Board (Yakal)	3.00	bd.ft		
Sub-total						
6.0 Tractor Crossing 6 "units						
	102(2)	Common Excavation	1.80	cu.m.		
	515(3)	Structural Backfill/backfilling	0.90	cu.m.		
	900(2)a	Concrete Class "B" With Forms	1.50	cu.m.		
	900(2)b	Concrete Class "B" Without Forms	1.80	cu.m.		
	404(1)a	Reinforcing Steel Bars	72.00	kgs		
	200(1)	AggregateSub Base Course	0.60	cu.m.		
Sub-total						
7.0 Turn-out 5 "units						
	102(2)	Common Excavation	1.25	cu.m.		
	515(3)	Structural Backfill/backfilling	0.63	cu.m.		
	900(2)a	Concrete Class "B" With Forms	1.25	cu.m.		
	404(1)a	Reinforcing Steel Bars	60.00	kgs		
	200(1)	AggregateSub Base Course	0.50	cu.m.		
	SPL1	Wooden Flush Board (Yakal)	5.00	bd.ft		
Sub-Total						
8.0 Billboard/Marker						
	SPL4	Billboard and Project Marker	1.00	L.S.		
Sub-Total						
TOTAL PROJECT COST						

Note: All taxes, contractor's profit and hauling cost are included in unit cost per item.

NAME AND SIGNATURE OF BIDDER

REPUBLIC OF THE PHILIPPINES

DEPARTMENT OF AGRICULTURE

REGIONAL FIELD UNIT NO.5

SAN AGUSTIN, PILI, CAMARINES SUR.

PROJECT TITLE:

**CONSTRUCTION OF CANAL EXTENSION
OF CANTANUSAN DIVERSION DAM
LOCATION: BREG. CANTANUSAN, JUBAN, SORSOGON**

PREPARED BY:

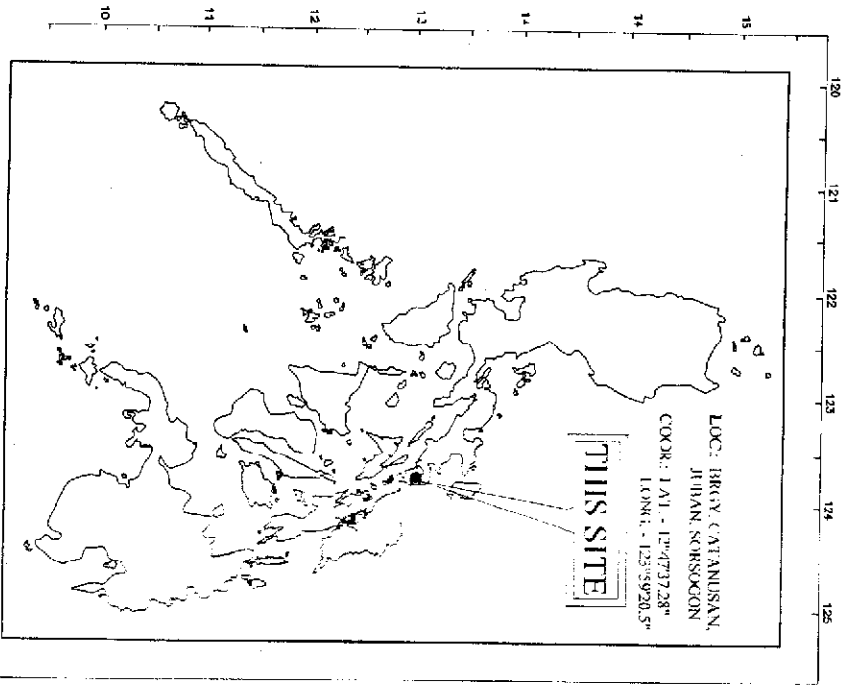
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REPUBLIC OF THE PHILIPPINES
 DEPARTMENT OF AGRICULTURE
 REGIONAL FIELD UNIT NO. 5
 SAN AGUSTIN, PULI, CAVARINES SUR

LOCATION MAP



SHEET CONTENT :

	LOCATION MAP AND SHEET CONTENT
	FARM PLAN
	PROFILE ALONG CENTER OF CANAL EXTENSION, END CHECK DETAIL
	TURN-OUT DETAIL, DIVISION BOX DETAIL, TRACTOR CROSSING DETAIL, TYPICAL CANAL "A" AND "B" DETAIL
	BILLBOARD AND CONCRETE MARKER DETAIL

Name of Project CONSTRUCTION OF CANAL EXTENSION OF CATANUSAN DP		Prepared by ENGR. ALVIN A. AFIA Engineer in Civil		Checked by ENGR. RICHARD H. MANA Engineer in Professional		Reviewed by ENGR. JERRY A. HONDA Engineer in Professional		Submitted by ENGR. NILDEN ALBANO Engineer in Civil		Recommended by Approval RIZO N. MARCELINE RTD for Operations and Extension		Approved by RODOLFO TORRES Regional Director	
Date of Issue 2022 RICE PROGRAM (Yr 1)		AS SHOWN		Scale 1/6		Sheet No. 2881		Total No. of Sheets 6		Date 1/6			



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

Project Title:		CONSTRUCTION OF CANAL EXTENSION OF CATANISAN/DI	
Location:	Disto. Camarines Sur, Sorsogon		
Field Station:	Sorsogon		
Project Code:	AS SHOWN		

Prepared by:
 ENGR. ADRIAN T. APRIA
 Technical Staff

Checked by:
 ENGR. ANTONIO M. MIRA
 Assistant Engineer in Charge

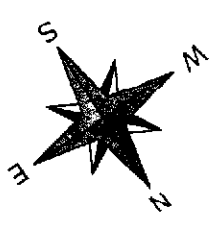
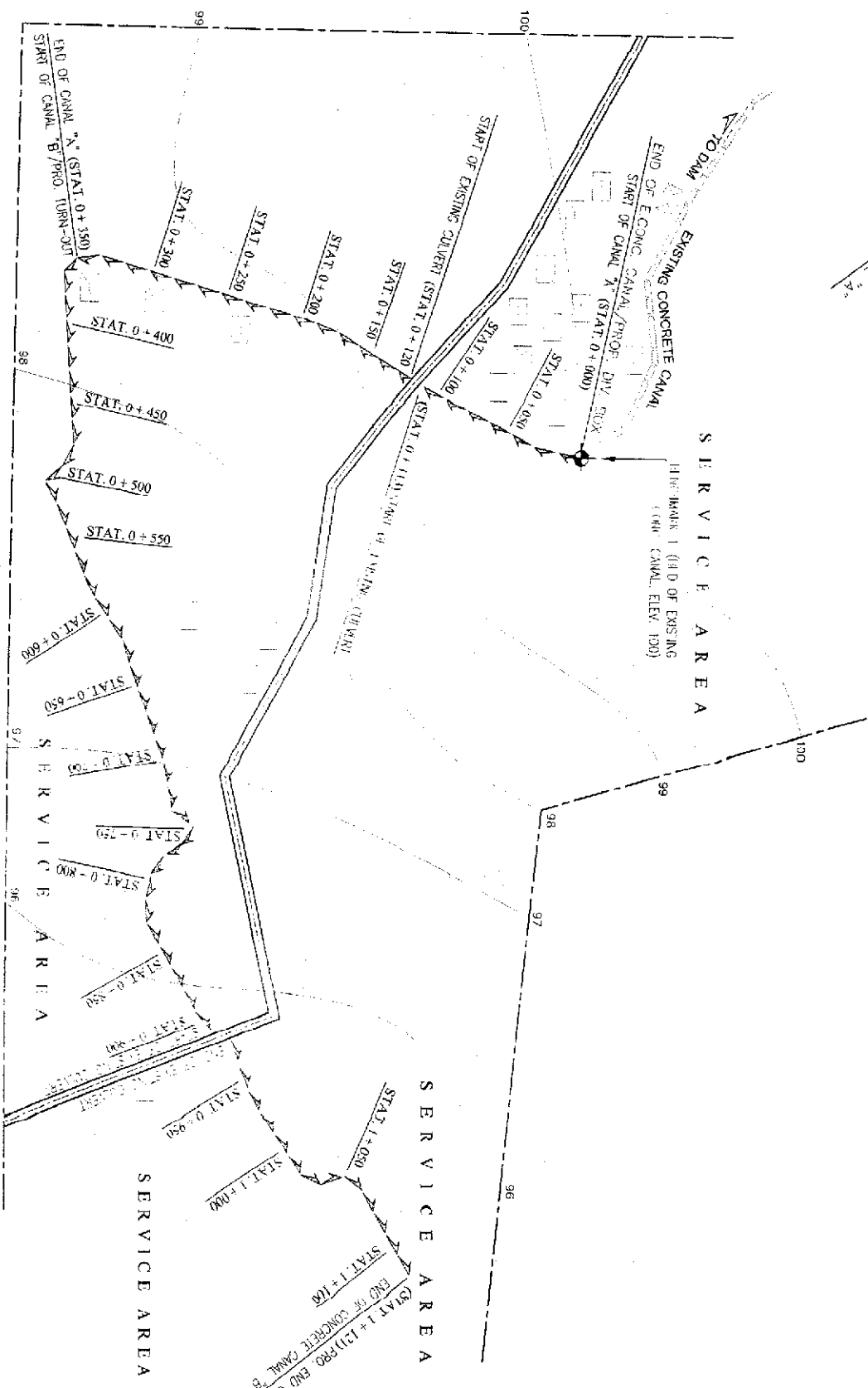
Reviewed by:
 ENGR. JERRY A. EBORA
 Engineer in Charge

Submitted by:
 ENGR. NITEL A. CABANO
 Designer

Recommending Approval:
 LUIZ R. MARCELIANO
 Project Coordinator

Approved by:
 RONDEL TORRES LA MABE
 Regional Engineer in Charge

DATE: 2021
 SHEET NO.: 2/6



LEGEND:

- B.M. 1 BENCHMARK 1 (B.M. 1) OF EXISTING CONG. CANAL, ELEV. 100
- SURVEY BOUNDARY
- RESIDENTIAL HOUSES
- CONTOUR WITH 1M INTERVAL
- PROPOSED CONG. CANAL 'B'
- PROPOSED CONG. CANAL 'A'
- PROPOSED DIMENSION BOX
- MAIN CANAL 30x30



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

CONSTRUCTION OF CANAL EXTENSION OF CAVARINES SUR
 Project No. 1
 Design: RAY C. CALIBRADO, JR., RCE, RSC, RSE
 Check: ENGR. ALBERTO A. LAYAN
 Date: 10/11/11

Checked by: ENGR. ALBERTO A. LAYAN
 Date: 10/11/11

Checked by: ENGR. ALBERTO A. LAYAN
 Date: 10/11/11

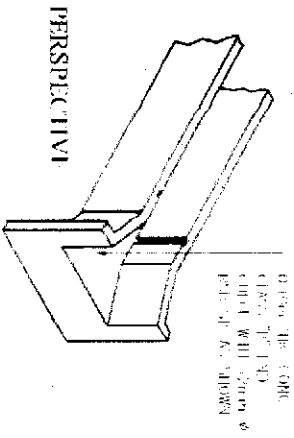
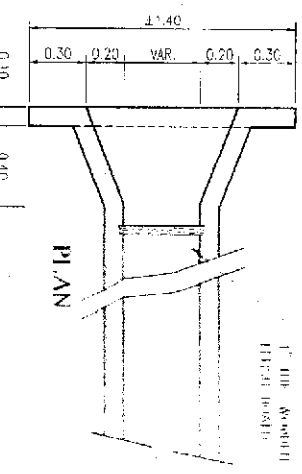
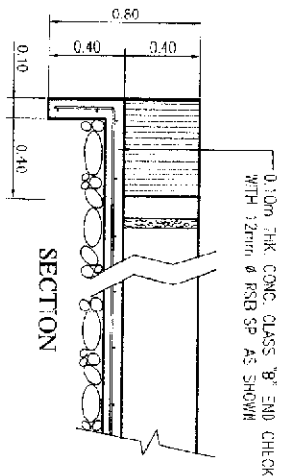
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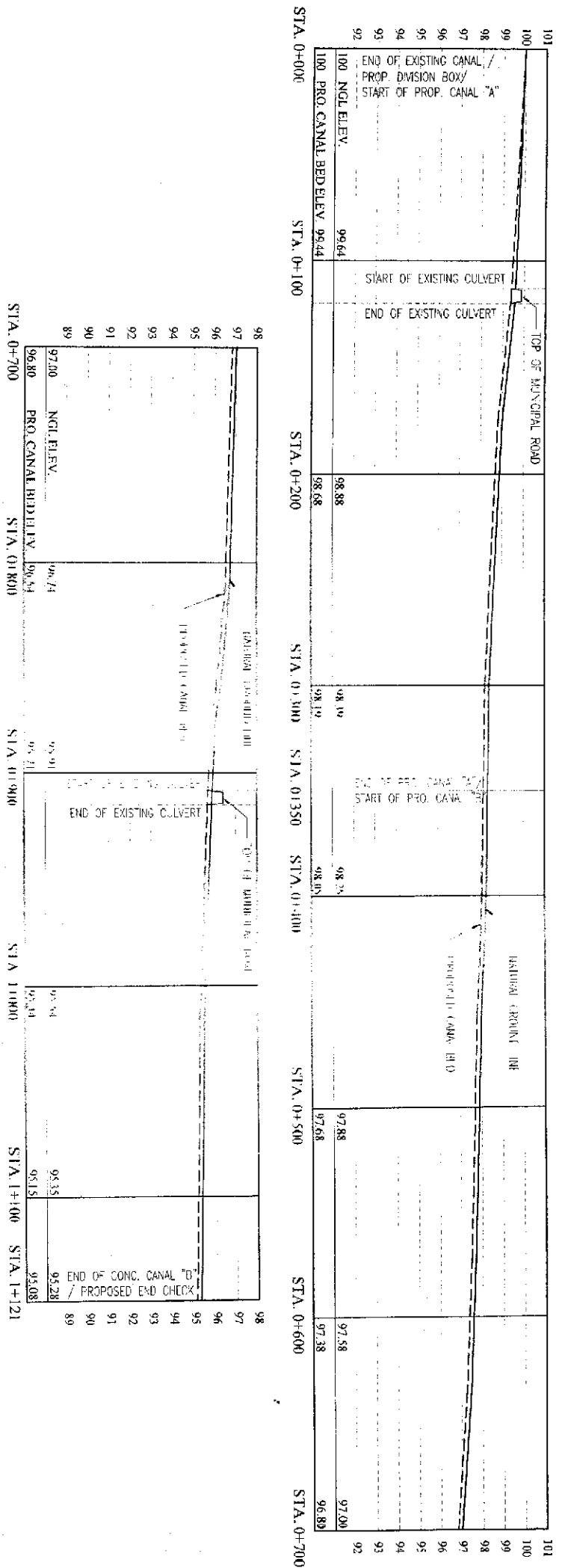
Checked by: ENGR. ALBERTO A. LAYAN
 Date: 10/11/11



TYPICAL END CHECK DETAIL
 SCALE: 1:30 MTS

NOTE: PROVIDE 1 UNIT OF END CHECK AT THE END OF CANAL "B"

SECTION OF THE CANAL AT THE END OF CANAL "B" AT STATION 0+700





REPUBLIC OF THE PHILIPPINES
 DEPARTMENT OF AGRICULTURE
 REGIONAL FIELD UNIT NO. 5
 SAN AUGUSTIN PUL CAMPANINES SUR

Project Name	TRANSFER OF CANAL FROM BARRIO DE SAN JOSE (2012)
Location	Barrio San Jose, San Augustin Pul, Campanines Sur
Scale	1:30 MTS

DATE: 4/1/13
 DRAWN BY: [Signature]

CHECKED BY: [Signature]

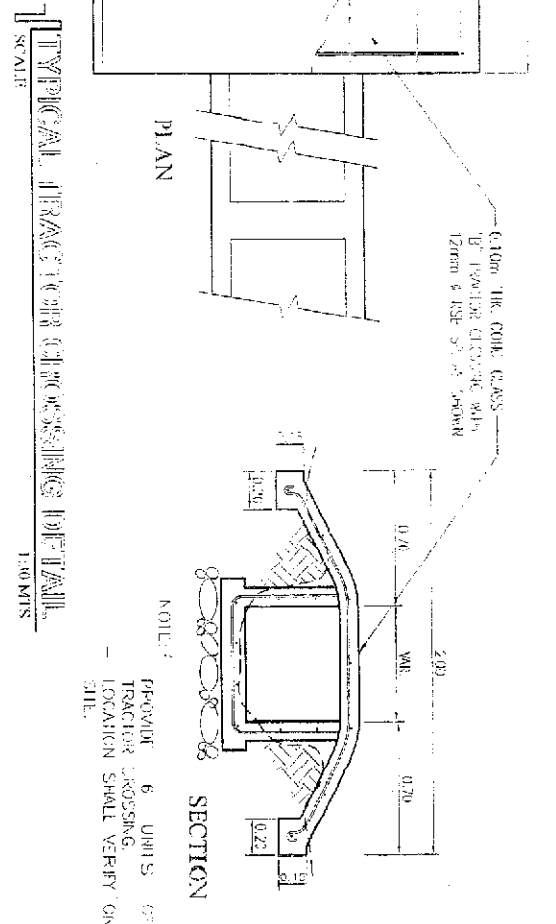
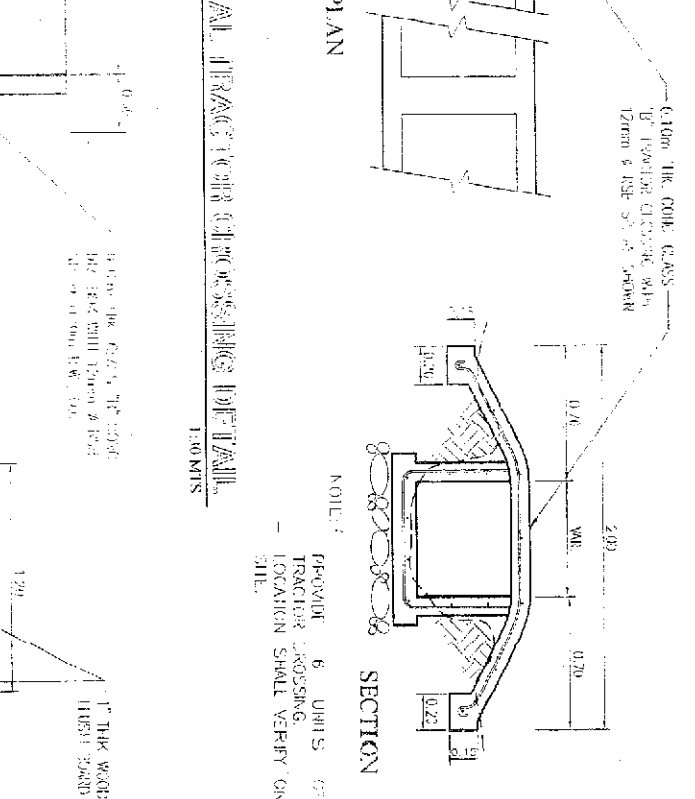
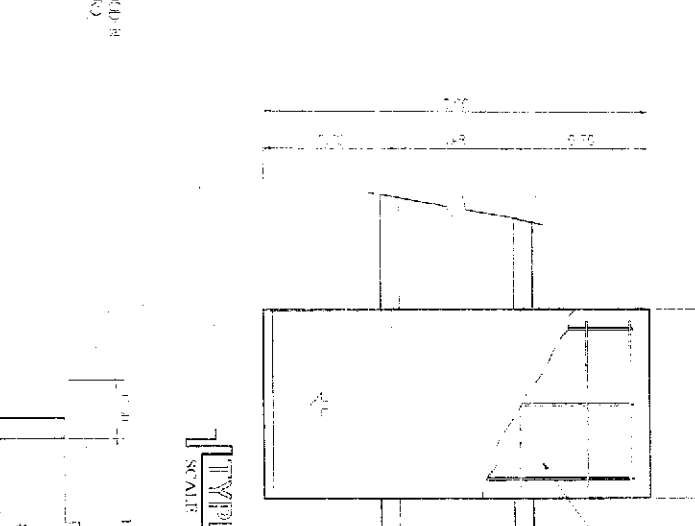
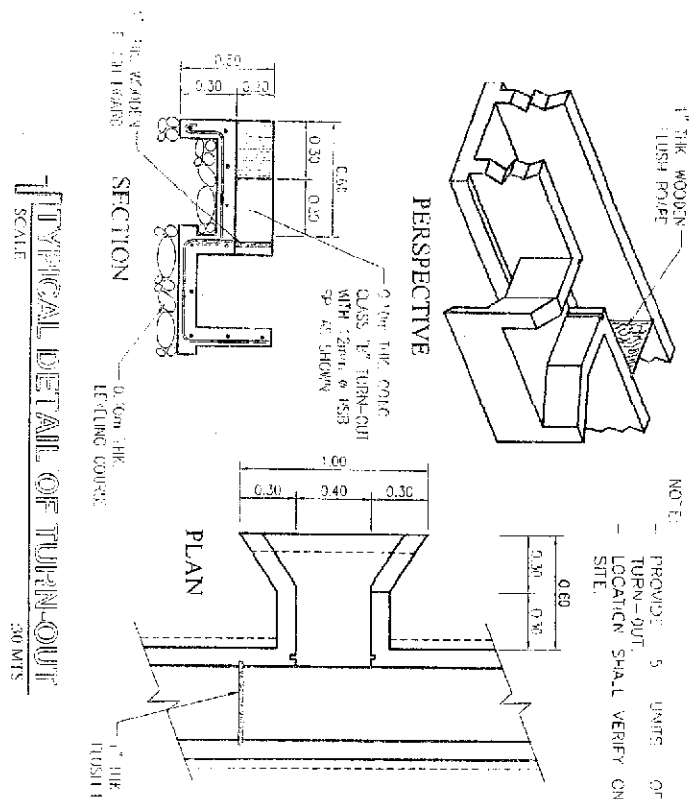
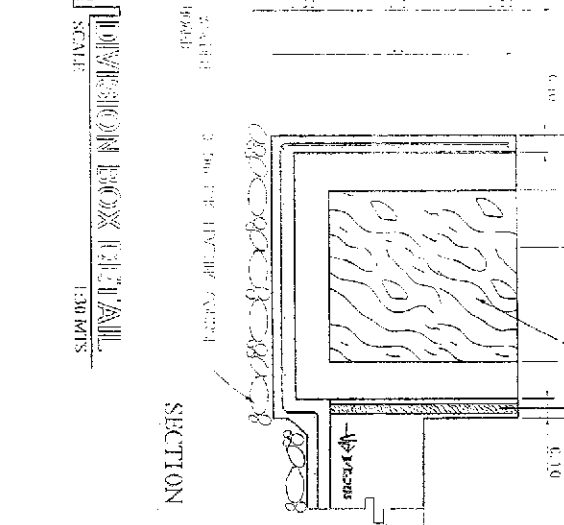
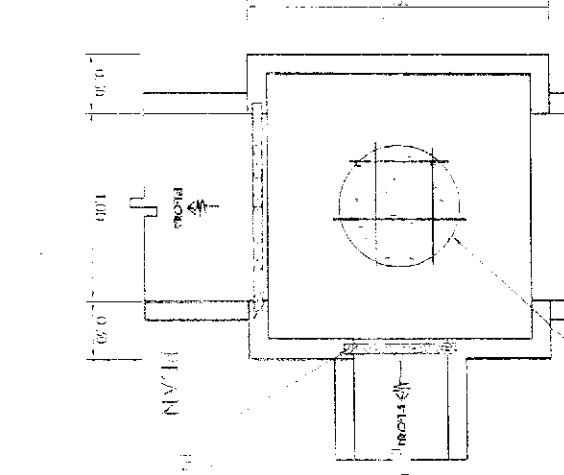
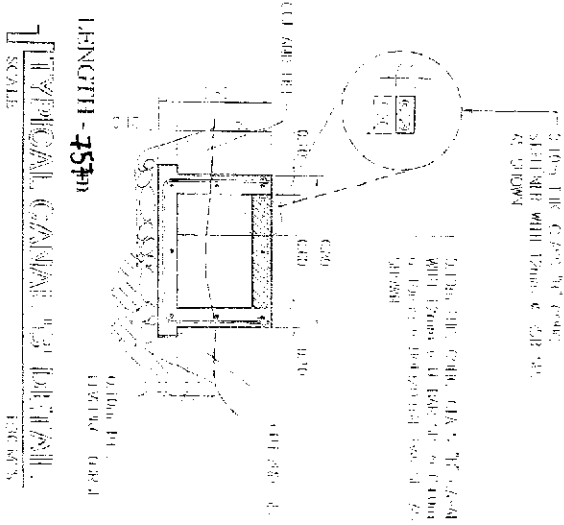
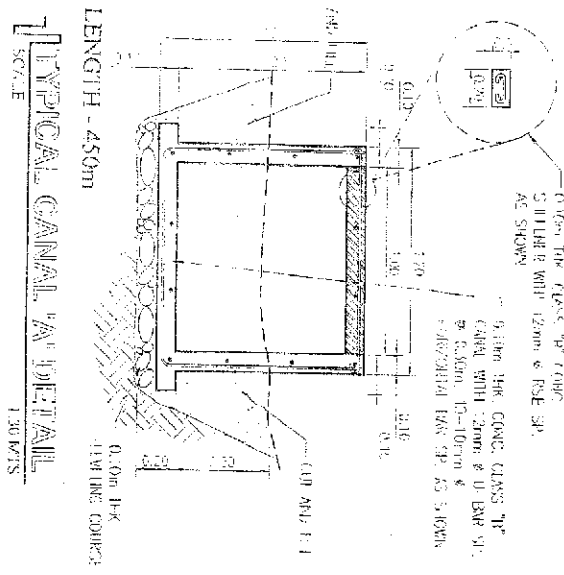
APPROVED BY: [Signature]

DATE: 4/1/13

SCALE: 1:30 MTS

DATE: 4/1/13

SCALE: 1:30 MTS



Project Name	TRANSFER OF CANAL FROM BARRIO DE SAN JOSE (2012)
Location	Barrio San Jose, San Augustin Pul, Campanines Sur
Scale	1:30 MTS
DATE	4/1/13
DRAWN BY	[Signature]
CHECKED BY	[Signature]
APPROVED BY	[Signature]
DATE	4/1/13
SCALE	1:30 MTS

TAPALUIN SHOULD ADHERE TO COMMISSION ON AGRIC. CIRCULAR 2013-004 PREPARATION AND INSTALLATION GUIDELINES:

- THE NEW BILLBOARD DESIGN LAYOUT AND DIMENSION (SEE ATTACHED DRAWING) SHALL BE INSTALLED ON A STANDARD BILLBOARD MEASURING 2.4m x 2.4m (8ft x 8ft) USING 12mm (1/2 inch) THICK MARINE FLOWOOD OR TAPALUIN PESTED ON 5mm (3/16 inch) MARINE PLYWOOD.
- FOR EACH PROJECT, THE BILLBOARD SHALL BE INSTALLED IN FRONT OF THE PROJECT SITE
- NAME(S) AND/OR PICTURE(S) OF ANY PERSONNAGES SHOULD NOT APPEAR IN THE BILLBOARD.

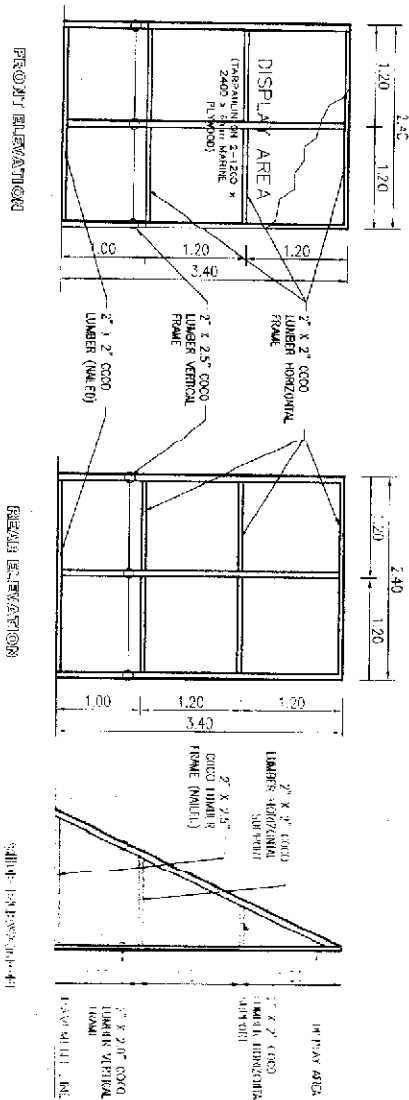
- NO POLITICAL BILLBOARD SHALL BE ALLOWED TO BE INSTALLED 100 METERS BEFORE AND 100 METERS AFTER A 1.5-METER ROAD RIGHT-OF-WAY.
- DEPARTMENT OF AGRICULTURE CONTRACTORS SHALL NOT BE ALLOWED TO PLACE NAMES OF POLITICALS ON THEIR EQUIPMENT OR CARRY POLITICAL BILLBOARD ON THEIR EQUIPMENT.

Project: _____
 Cost: _____
 Location: _____
 Fund Sources: _____
 Contractor: _____
 Brief Description of Project: _____

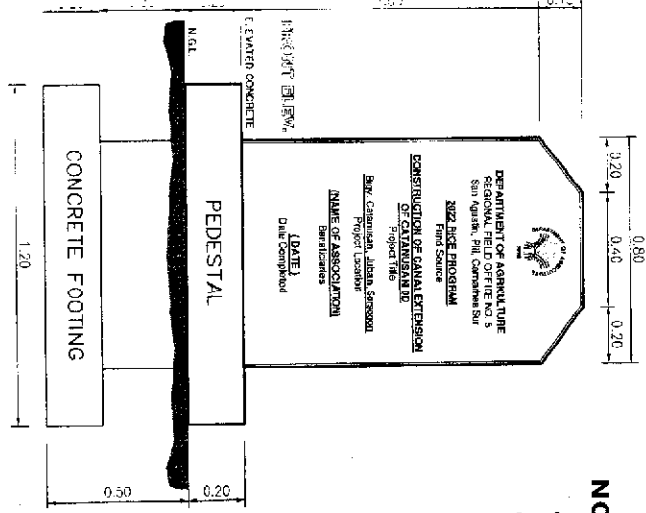
Project Details:

Item	Quantity	Unit	Rate	Total

For Project Preparation and Approval, Applicant Must Prepare and Submit the Following Documents:
 1. Bill of Materials
 2. Material Specifications
 3. Construction Schedule
 4. Installation Schedule
 5. Maintenance Schedule

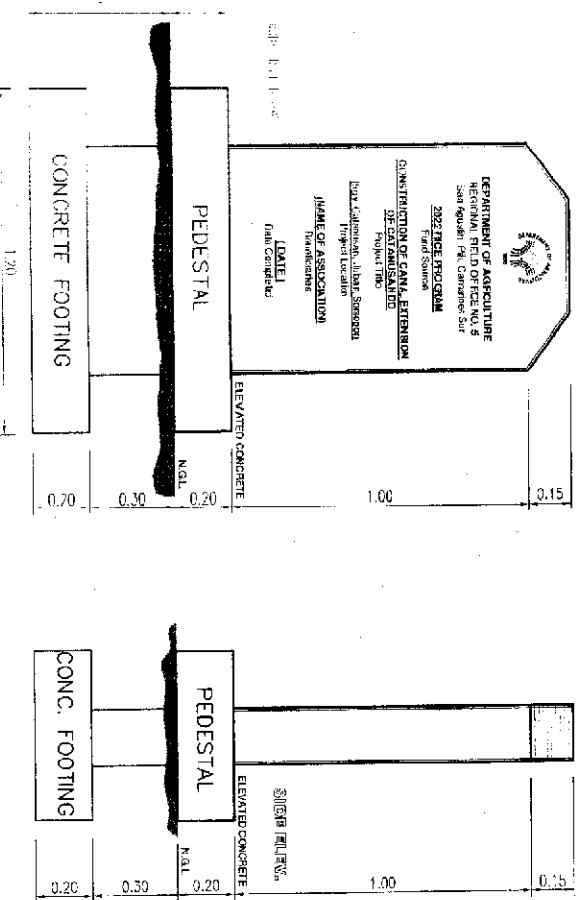


TYPICAL DETAIL OF BILLBOARD

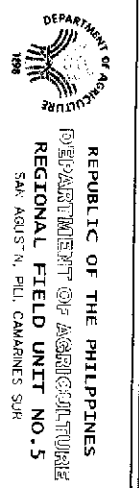


NOTE:

- PROVIDE CEMENT PLASTER FINISH ON BOTH FACES.
- CONCRETE MARKER SHOULD BE FINISH COATED WITH WHITE EMERALD 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.



TYPICAL DETAIL OF CONG. MARKER



Name of Project: CONSTRUCTION OF CANAL EXTENSION OF CATAVANISAN LTD.
 Location: BRN, Catavanis, Urdan, Sorsogon
 Road Name: 2022 RICE PROGRAM (TR 1)
 AS SHOWN

Prepared by: ENGR. ARMANDO L. LAPA
 Technical Staff

Checked by: ENGR. MARTIN H. ALBA
 Registered Professional Engineer

Reviewed by: ENGR. JERRY A. BRONIA
 Registered Professional Engineer

Approved by: ENGR. NITEL PRALBAÑO
 Chief Engineer

Supervised by: LUI R. MARCELINO
 Project Supervisor

Approved by: RODRIGUEZ, WILLIAM MARE
 Regional Engineer in Charge

DATE: 5/5