

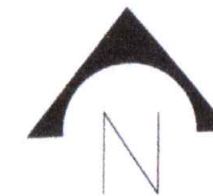


FARM DEVELOPMENT PLAN

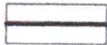
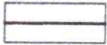
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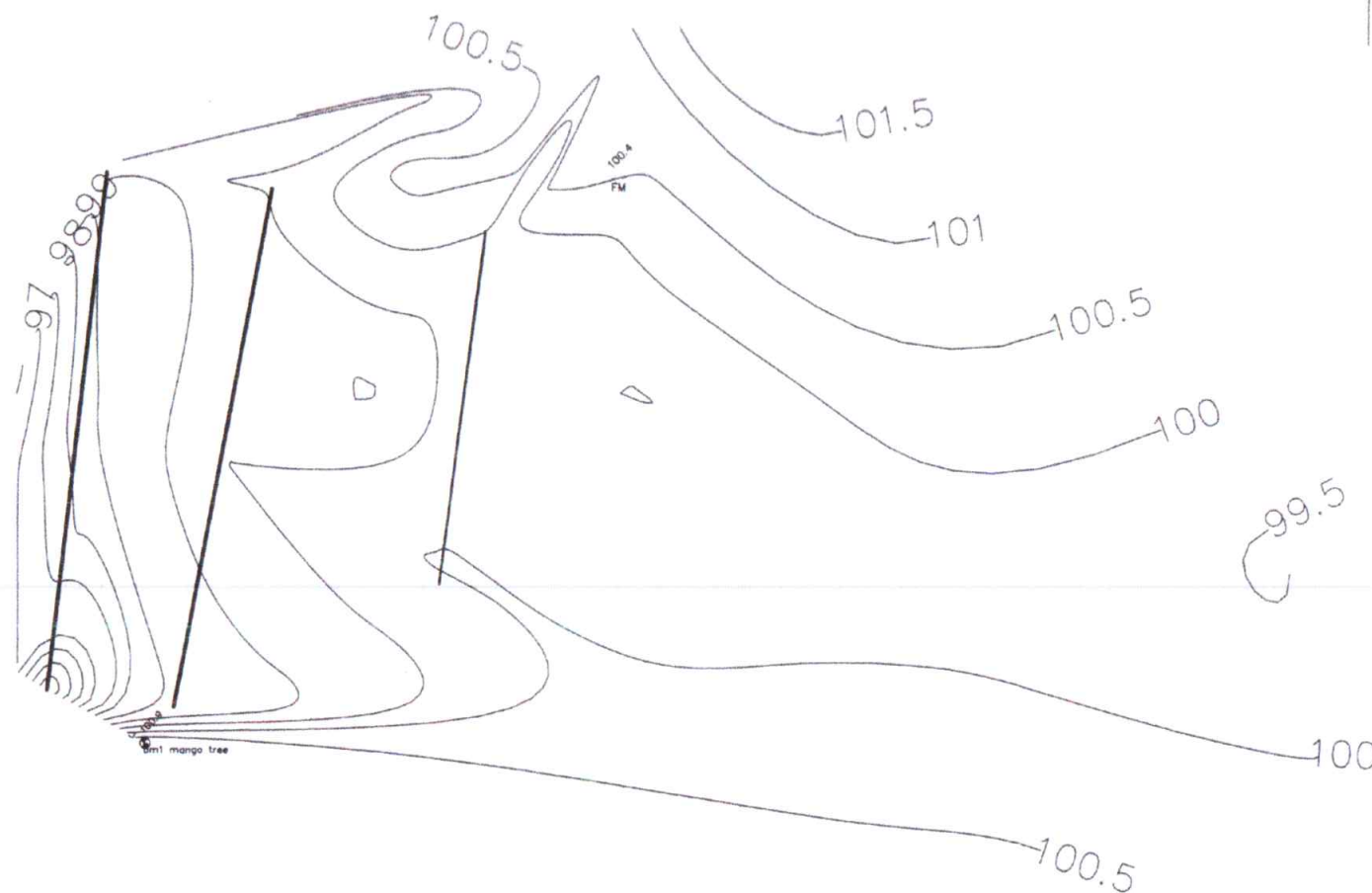
NTS

PREPARED FROM THE OFFICE OF THE	PROJECT TITLE	PREPARED BY	CHECKED & REVIEWED BY	RECOMMENDING APPROVAL	APPROVED	SHEET CONTENTS	SHEET NO.
 DEPARTMENT OF AGRICULTURE REGIONAL AGRICULTURAL ENGINEERING DIVISION	REHABILITATION OF BUGNAY DD	 CHRISTOPHER P. TIBOC, ABE Engineer in Road	 JOYLENE G. BUNGUBUNG, ABE Supervising Engineer	 DENNIS I. TACTAC, ABE Chief RAED	 NESTOR D. DOMENDEN, CESO IV Regional Executive Director	SITE DEVELOPMENT PLAN	1 9



LEGEND:

-  BENCHMARK
(MANGO TREE)
(Elev. 100.90m)
-  EXISTING STRUCTURE
-  PROPOSED DIVERSION DAM
-  CONTOUR LINES
(0.50M CONTOUR INTERVAL)



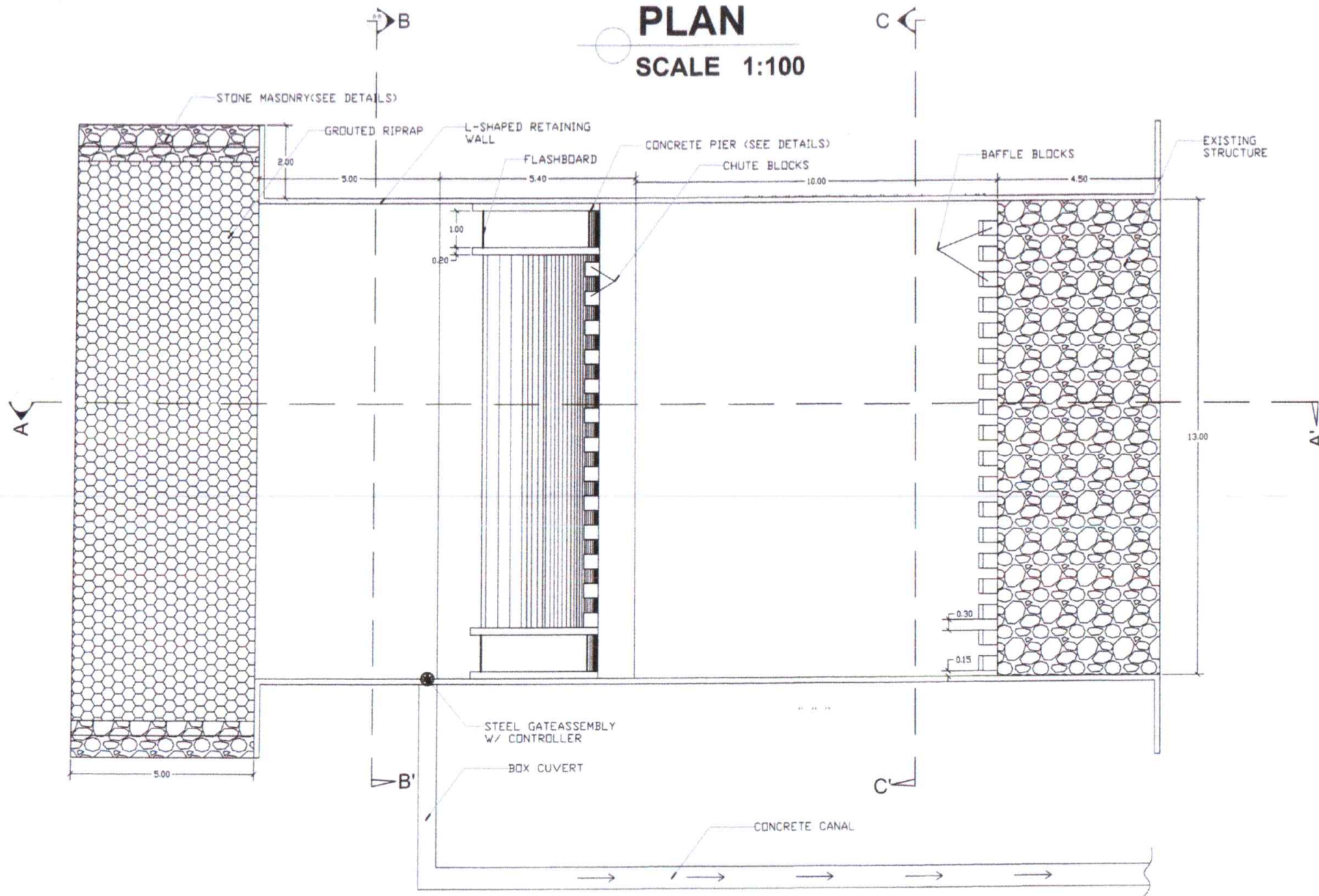
TOPOGRAPHIC MAP

SCALE: 1:200

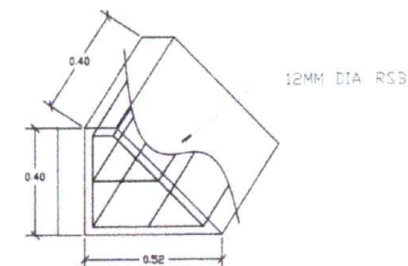
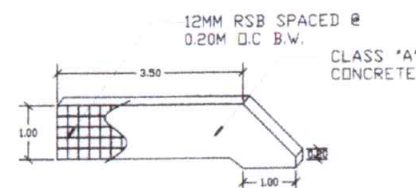
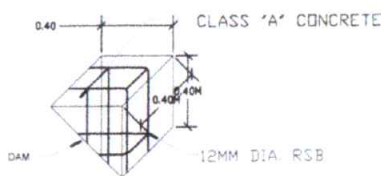
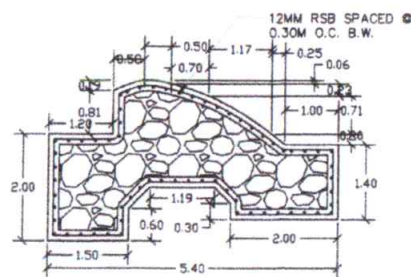
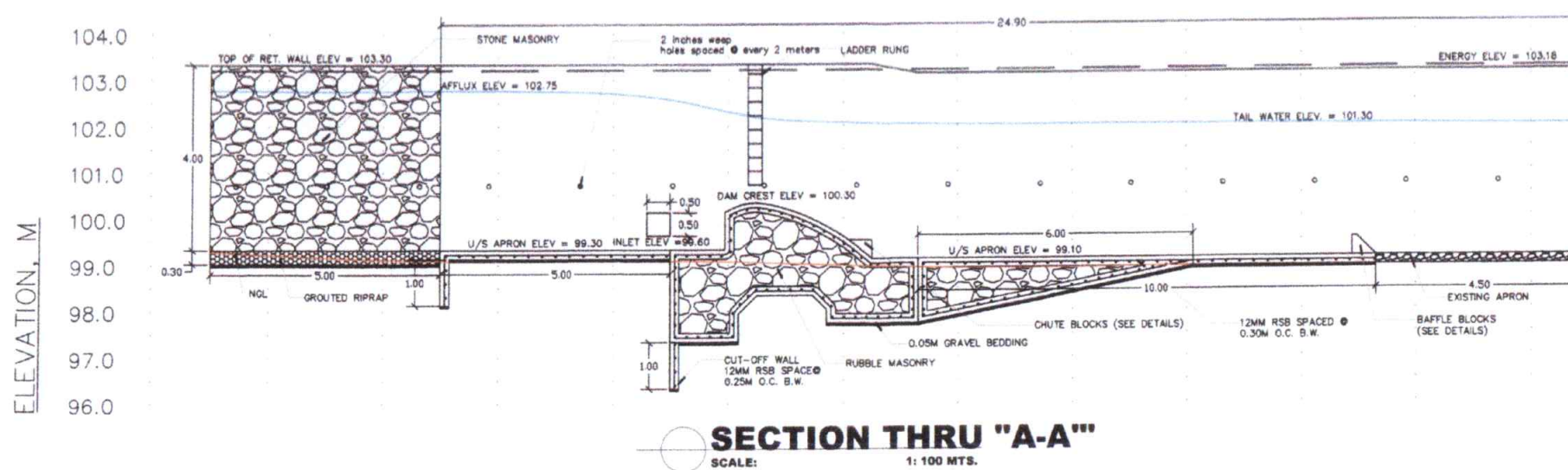
PREPARED FROM THE OFFICE OF THE	PROJECT TITLE	PREPARED BY	CHECKED & REVIEWED BY	RECOMMENDING APPROVAL	APPROVED	SHEET CONTENTS	SHEET NO.
 DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE NO. 3 REGIONAL AGRICULTURAL ENGINEERING DIVISION	REHABILITATION OF BUGNAY DD LOCATION: BRGY BUGNAY, CANTON CITY, SUCORAN SUB	CHRISTOPHER P. TIBOC, ABE Engineer II-008577	JOYLENE G. BUNGUBUNG, ABE Surveyor II-00500000	DENNIS I. TACTAC, ABE Chief of SAED	NESTOR D. DOMENDEN, CESO IV Chief, Regional Directorate Director	TOPOGRAPHIC MAP	2/9

PLAN

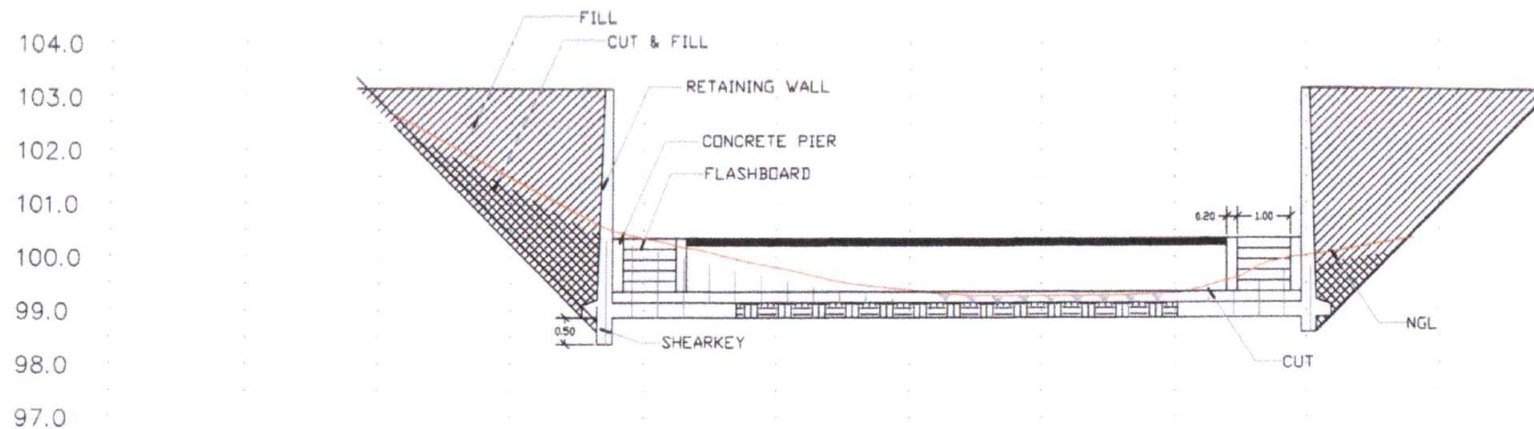
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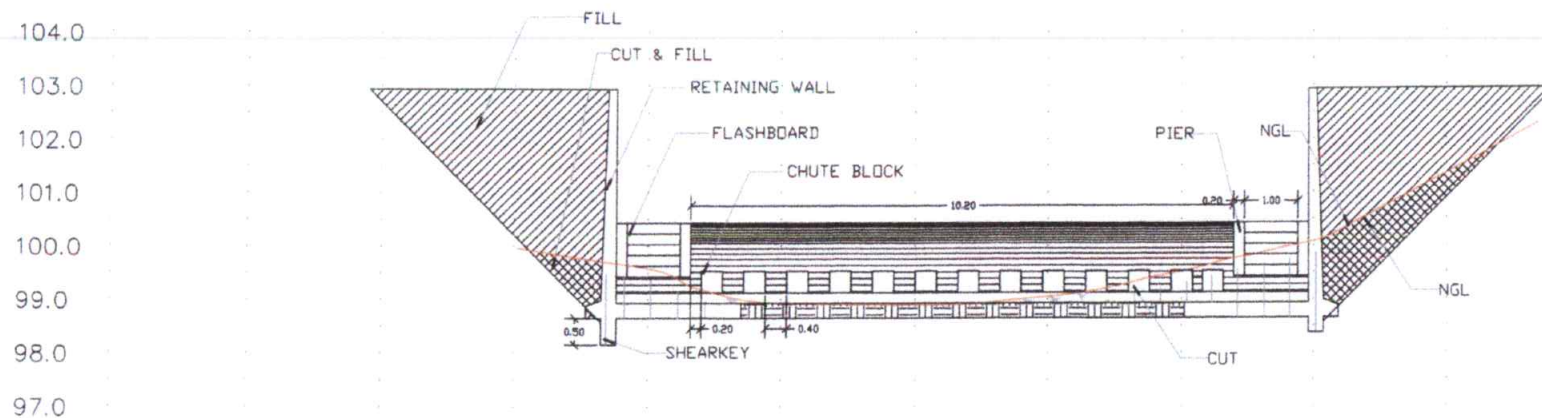
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 DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE NO. 3 REGIONAL AGRICULTURAL ENGINEERING DIVISION	REHABILITATION OF BUGNAY DD LOCATION: BRGY. BUGNAY, CANTON CITY, ILOCOS SUR	CHRISTOPHER P. TIBOC, ABE Engineer III-ADSD	JOYLENE G. BUNGUBUNG, ABE Engineer III-ADSD	DENNIS I. TACTAC, ABE Chief ADSD	NESTOR D. DOMENDEN, CESO IV Chief, Regional Executive Director	PLAN	39



PREPARED FROM THE OFFICE OF THE	PROJECT TITLE	PREPARED BY	CHECKED & REVIEWED BY	RECOMMENDING APPROVAL	APPROVED	SHEET CONTENTS	SHEET NO.
 DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE NO. 1 REGIONAL AGRICULTURAL ENGINEERING DIVISION	REHABILITATION OF BUGNAY DD LOCATION: BRGY. BUGNAY, CANTON CITY, ILOCOS SUR	CHRISTOPHER P. LIMBOC, ABE Engineer II-RAED	JOYLENE G. BUNGUBUNG, ABE Senior Civil Engineer-RAED	DENNIS I. TACTAC, ABE Chief-RAED	NESTOR D. DOMENDEN, CESO IV OIC, Regional Executive Director	LONGITUDINAL SECTION OGEE DAM DETAIL CHUTE BLOCK DETAIL CONCRETE PIER BAFFLE BLOCKS DETAIL	4 9



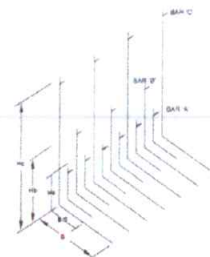
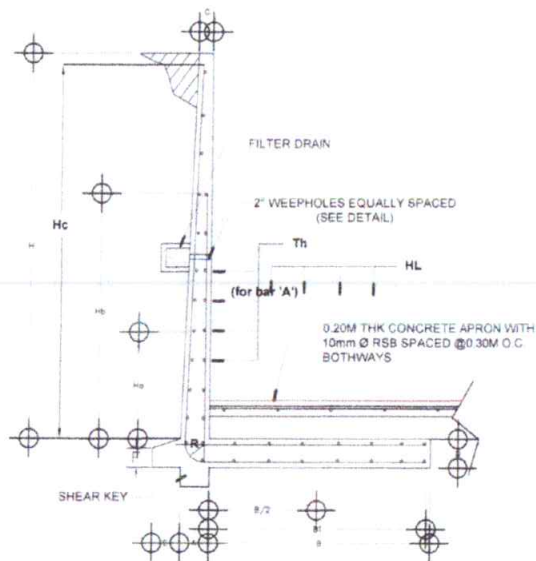
SECTION THRU "B-B"
SCALE: 1:100M



SECTION THRU "C-C"
SCALE: 1:100M

PREPARED FROM THE OFFICE OF THE	PROJECT TITLE	PREPARED BY	CHECKED & REVIEWED BY	RECOMMENDING APPROVAL	APPROVED	SHEET CONTENTS	SHEET NO.
 DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE NO. 2 ILOILO CITY, ILOILO, VISAYAS REGIONAL AGRICULTURAL ENGINEERING DIVISION	REHABILITATION OF BUGNAY DD LOCATION: BUGNAY, BUGNAY, CANTON CITY, ILOILO SUB	CHRISTOPHER P. TIBOC, ABE Engineer in Charge	JOYLENE G. BUNGUBUNG, ABE Senior Civil Engineer	DENNIS I. TACTAC, ABE Chief, RAED	NESTOR D. DOMENDEN, CESO IV Dir., Regional Executive Director	CROSS SECTIONS	5 9

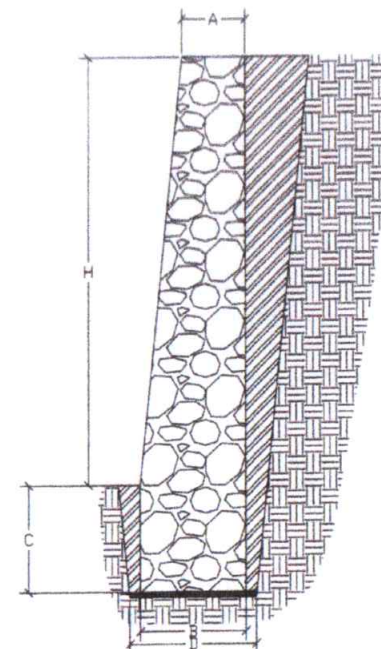
DIMENSIONS (CM)								BAR "A"				BAR "B"		BAR "C"		Th		HL	
H	A	B	C	D	E	F	R	SIZE	Ha	SPA	Hb	SPA	Hc	SPA	SIZES	SPA	SIZE	SPA	
400	28	235	15	28	28	23	16	16	115	14	200	28	395	28	10	28	10	14	



FOR HEIGHTS 3.00 MTS.
& GREATER

STD. L - SHAPED RETAINING WALL

DRAWN NOT TO SCALE



TYPICAL SECTION OF STONE MASONRY

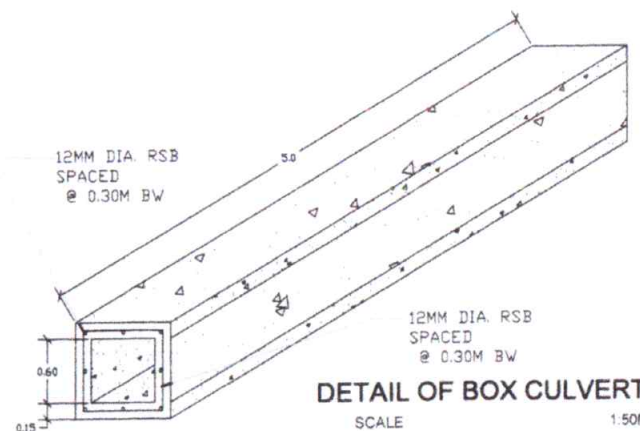
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ALONG RIVERBANKS

DIMENSIONS (cm)

H	A	B	C	D
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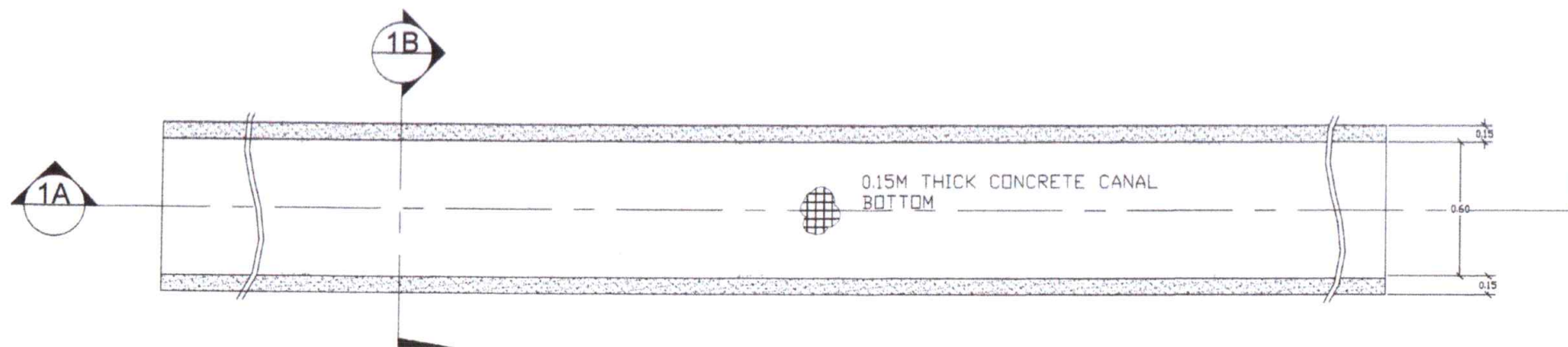


DETAIL OF BOX CULVERT

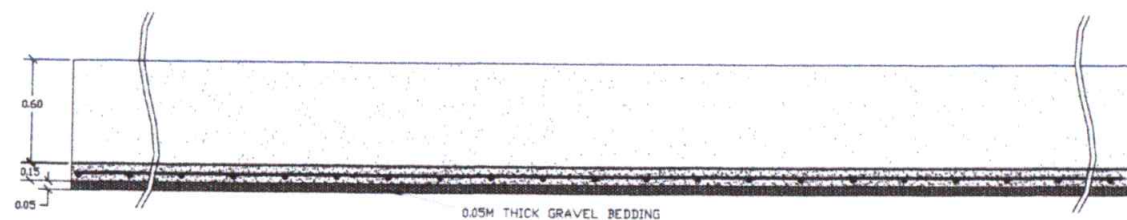
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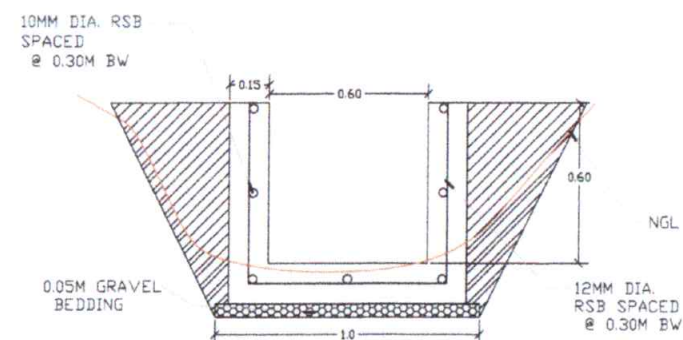
PREPARED FROM THE OFFICE OF THE REGIONAL AGRICULTURAL ENGINEERING DIVISION	PROJECT TITLE REHABILITATION OF BUGNAY DD	PREPARED BY CHRISTOPHER P. TIBOC, ABE Engineer II-RARE	CHECKED & REVIEWED BY JOYLENE G. BUNGUBUNG, ABE Section Engineer II-RARE	RECOMMENDING APPROVAL DENNIS I. TACTAC, ABE Chief, RARE	APPROVED NESTOR D. DOMENDEN, CESO IV Chief, Regional Executive Director	SHEET CONTENTS DETAILS OF STONE MASONRY RET. WALL & BOX CULVERT	SHEET NO. 6 9
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PLAN OF CONCRETE CANAL
NOT TO SCALE



SECTION "1A"
NOT TO SCALE



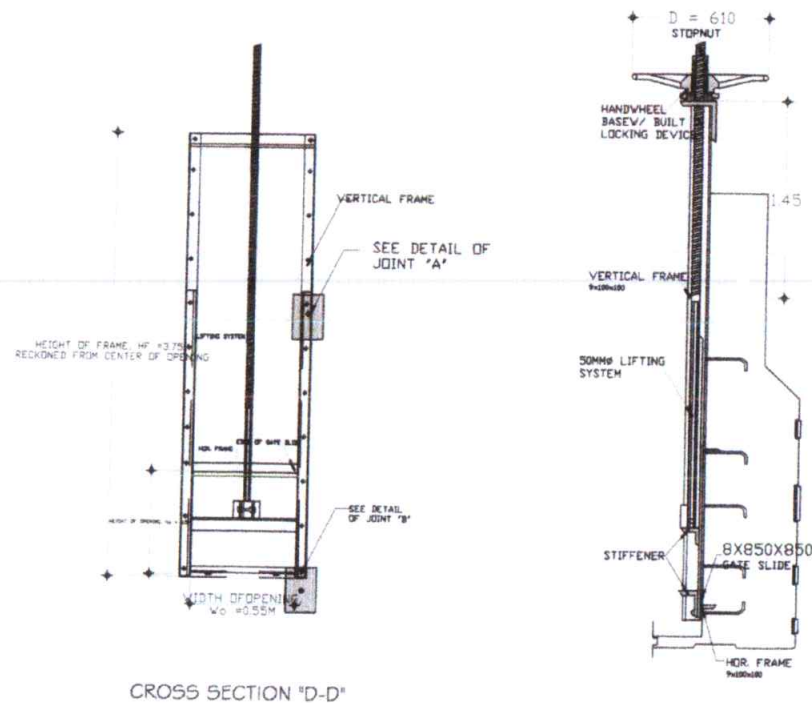
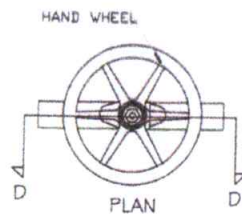
SECTION "1B"
SCALE 1:20

PREPARED FROM THE OFFICE OF THE REGIONAL AGRICULTURAL ENGINEERING DIVISION	PROJECT TITLE REHABILITATION OF BUGNAY DD	PREPARED BY CHRISTOPHER P. TIBOC, ABE Engineer (I-RARE)	CHECKED & REVIEWED BY JOYLENE G. BUNGUBUNG, ABE Engineer (I-RARE)	RECOMMENDING APPROVAL DENNIS T. TACTAC, ABE Chief BAED	APPROVED NESTOR D. DOMENDEN, CESO IV Chief, Regional Executive Director	SHEET CONTENTS PLAN OF CONCRETE CANAL	SHEET NO. 7/9
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GENERAL NOTES:

THE GATE SHALL BE PROVIDED AS PER DIMENSIONS AND SHAPE AS SHOWN IN THE PLAN. THE MATERIALS TO BE USED SHALL BE NEW AND GOOD QUALITY AND SHALL CONFORM THE QUALITY AND SHALL CONFORM THE QUALITY FEATURES.

1. GATE SLIDE, FILLER BARS, COVER PLATES AND STOPPER-STEEL PLATES. ASTM A 36
2. ANGLE BARS - STRUCTURAL STEEL ASTM A36
3. LIFTING STEMS - COLD - ROLLED STEEL ASTM A108-B27 GRADE 1045
4. LIFT NUTS AND STOP NUTS CAST IRON AND CAST STEEL RESPECTIVELY.
5. HANDWHEEL AND HOLD DOWN PLATES - CAST IRON ASTM A 46 CLASS 30.
6. FITTING - UP BOLTS AND NUTS - ASTM 233.
7. BALL THRUST BEARING - SKF NO. 016 OR EQUIVALENT.
8. COATINGS.
a) ALL STEELS AND CAST IRON PARTS SHALL BE COATED WITH COAL TAR EPOXY.
9. ALL FRACTIONAL SURFACES OF THE GATE ASSEMBLY SHALL BE MACHINED ACCURATELY TO MINIMIZED FRICTION.
10. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.

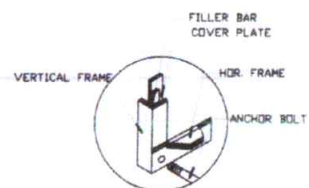


CROSS SECTION "D-D"

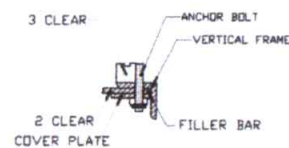
SECTION THRU HAND WHEEL



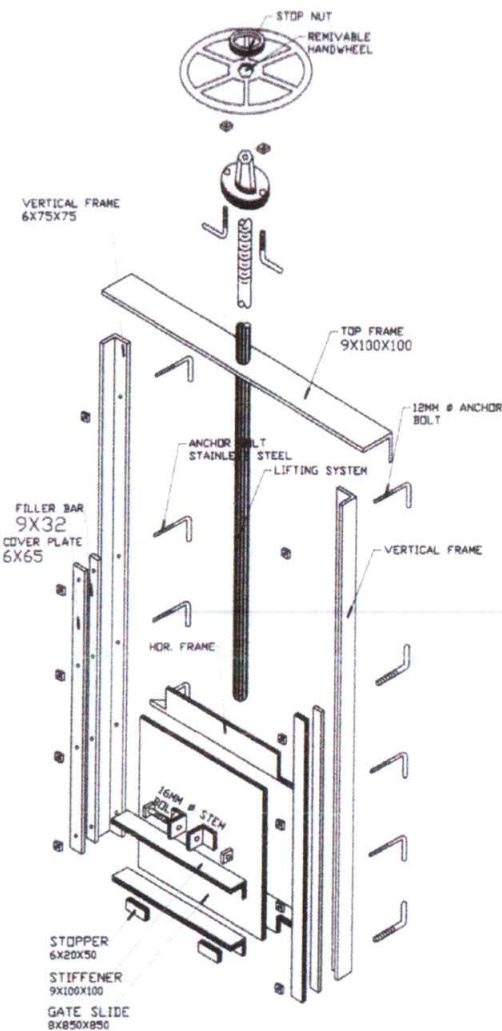
DETAIL OF JOINT A



DETAIL OF JOINT B



SECTION B-B

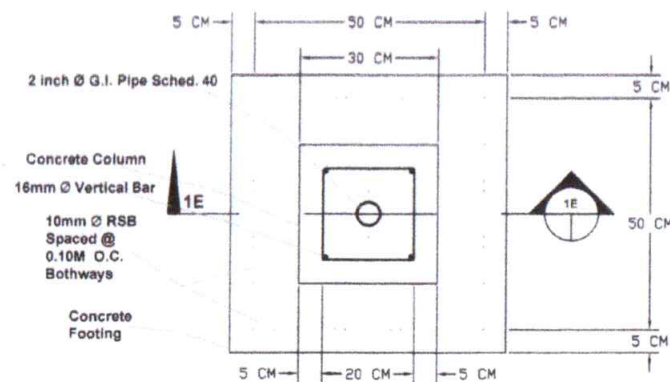


ISOMETRIC ASSEMBLY DETAIL

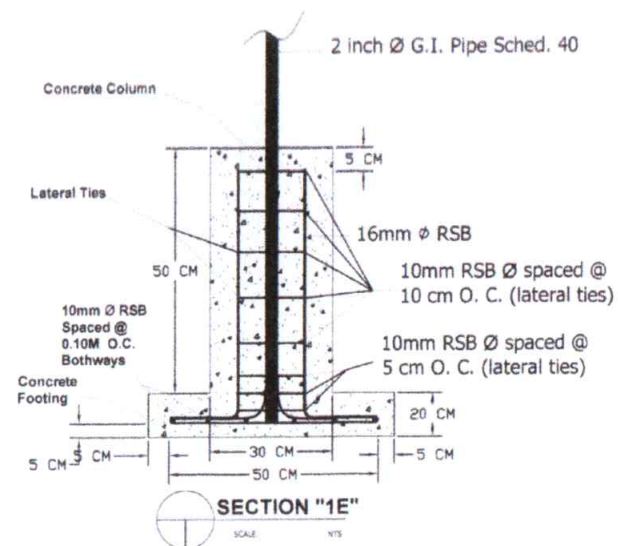
STEELGATE ASSEMBLY

N T S

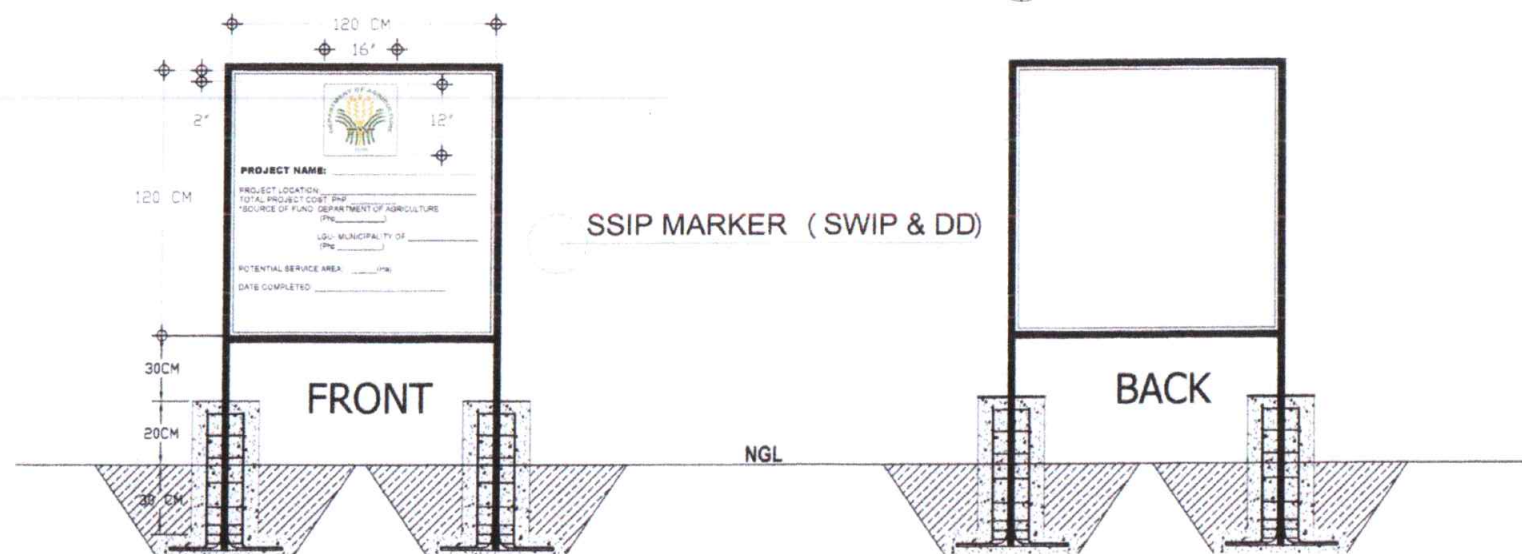
PREPARED FROM THE OFFICE OF THE  DEPARTMENT OF AGRICULTURE REGIONAL OFFICE NO. 1 MARIKINA CITY REGIONAL AGRICULTURAL ENGINEERING DIVISION	PROJECT TITLE REHABILITATION OF BUGNAY DD	PREPARED BY CHRISTOPHER P. TIBOC, ABE Engineer III RAED	CHECKED & REVIEWED BY JOYLENE G. HUNGUBING, ABE Section Engineer RAEDS RAED	RECOMMENDING APPROVAL DENNIS I. TACTAC, ABE Chief RAED	APPROVED NESTOR D. DOMENDEN, CESO IV RAED Regional Executive Director	SHEET CONTENTS STEEL GATE ASSEMBLY	SHEET NO. 8 9
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PLAN OF CONCRETE PEDESTAL
SCALE: NTS



SECTION "1E"
SCALE: NTS



PREPARED FROM THE OFFICE OF THE  REGIONAL AGRICULTURAL ENGINEERING DIVISION	PROJECT TITLE REHABILITATION OF BUGNAY DD	PREPARED BY  CHRISTOPHER P. TIBOC, ABE Engineer II, RASD	CHECKED & REVIEWED BY  JOYLENE G. BUNGUBUNG, ABE SECTION CHIEF, RASD	RECOMMENDING APPROVAL  DENNIS T. TACTAC, ABE Chief, RASD	APPROVED  NESTOR D. DOMENDEN, CESO IV OIC, Regional Executive Director	SHEET CONTENTS PROJECT MARKER	SHEET NO. 
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