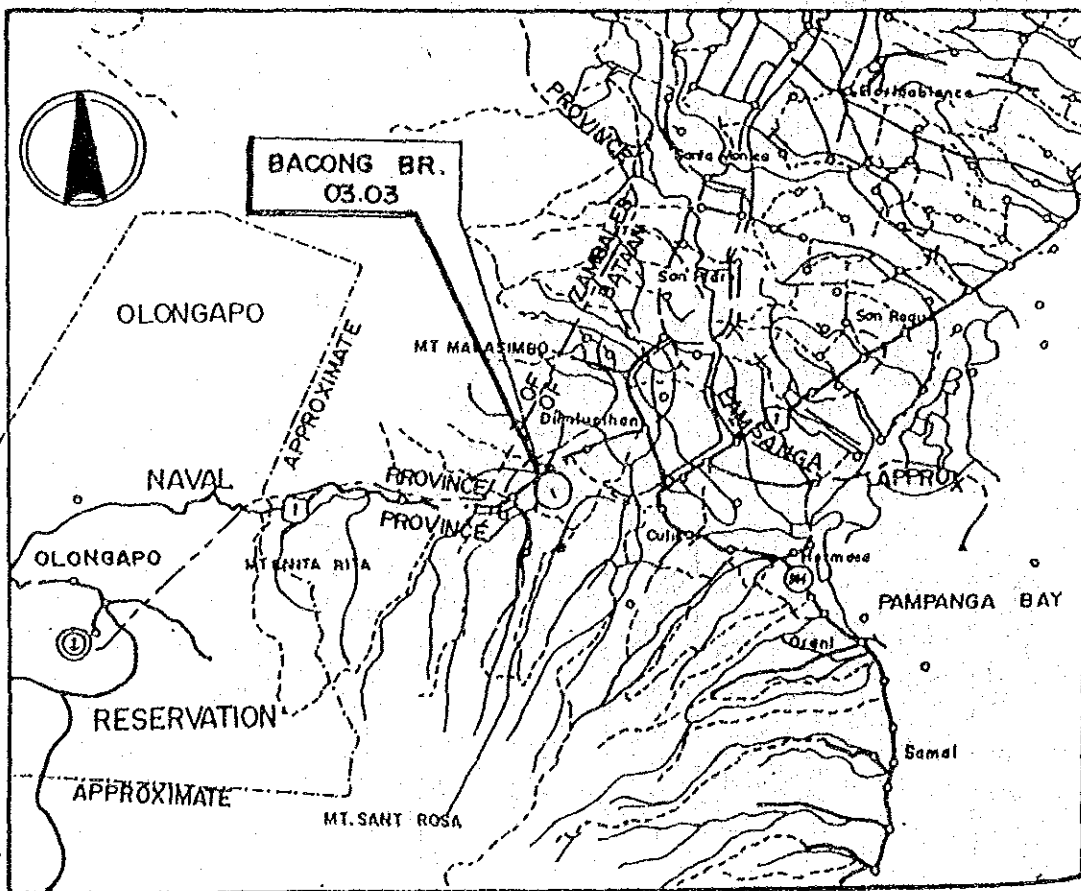
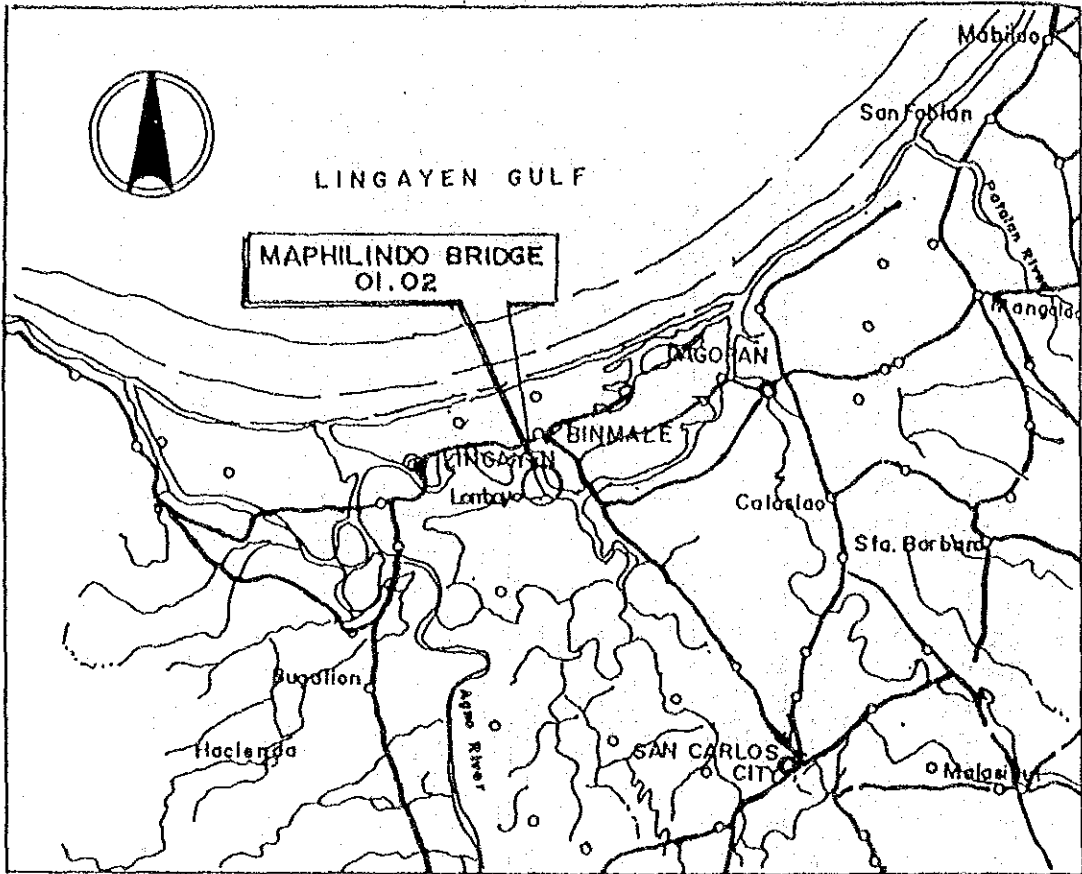


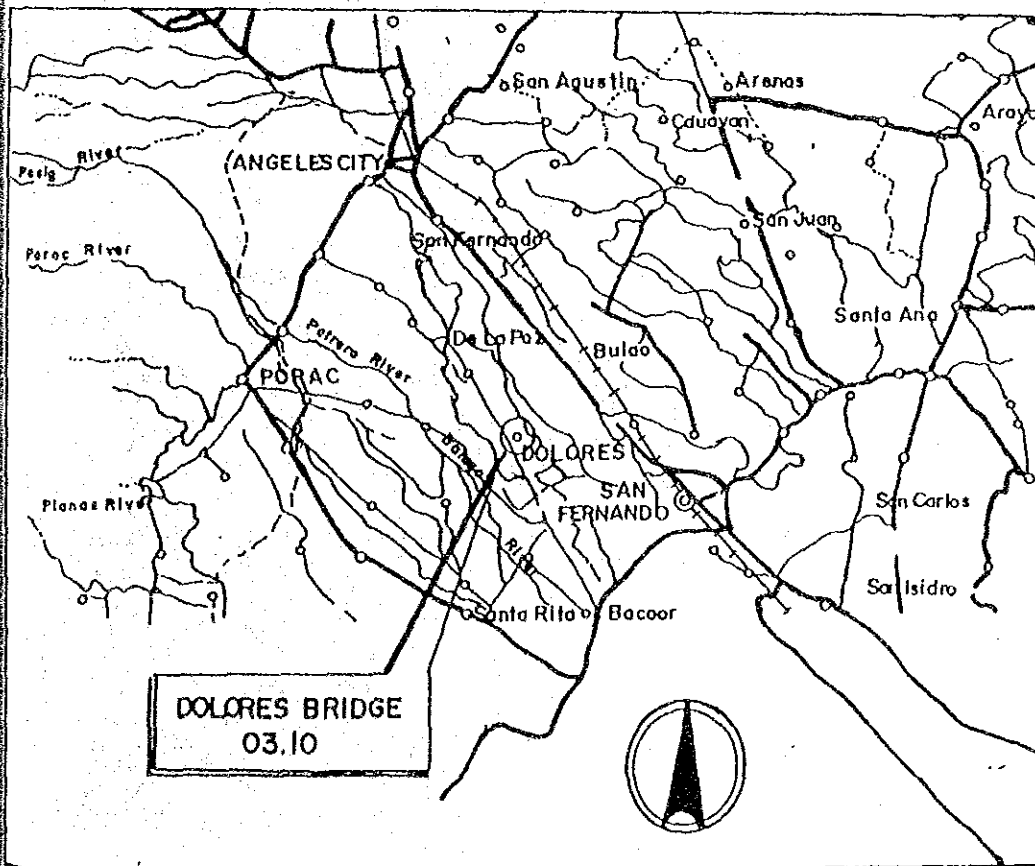
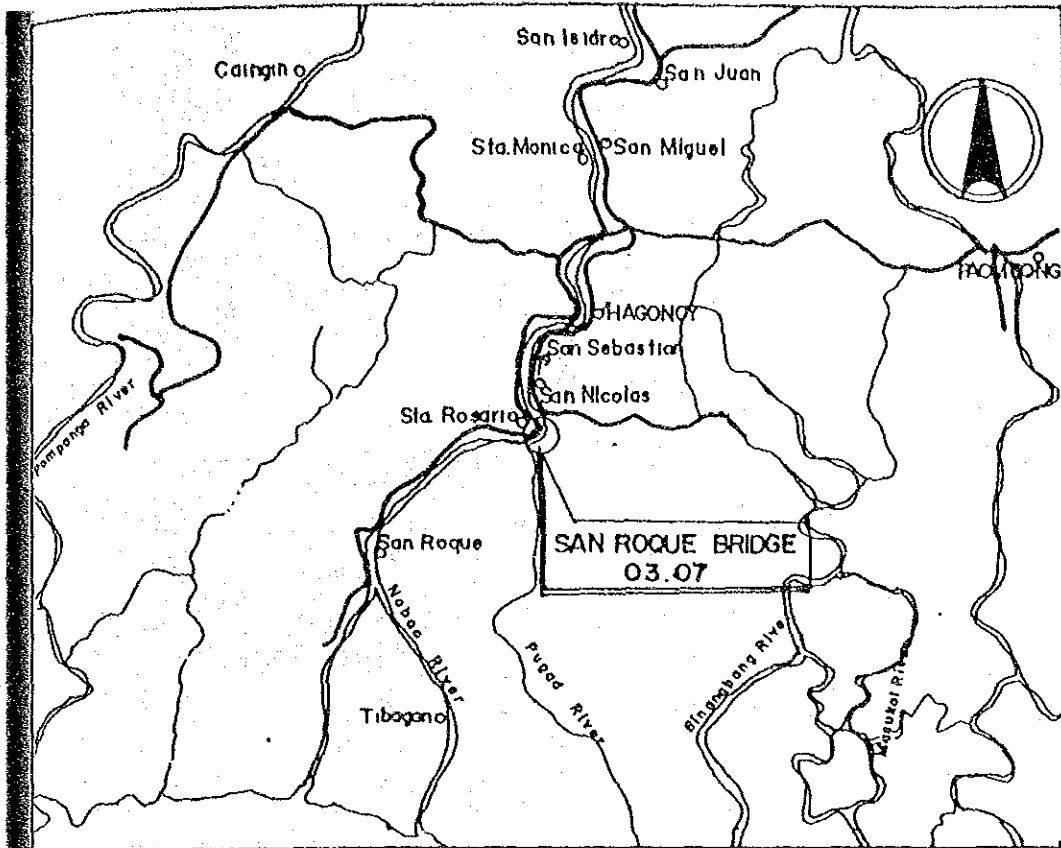
APPENDIX 6

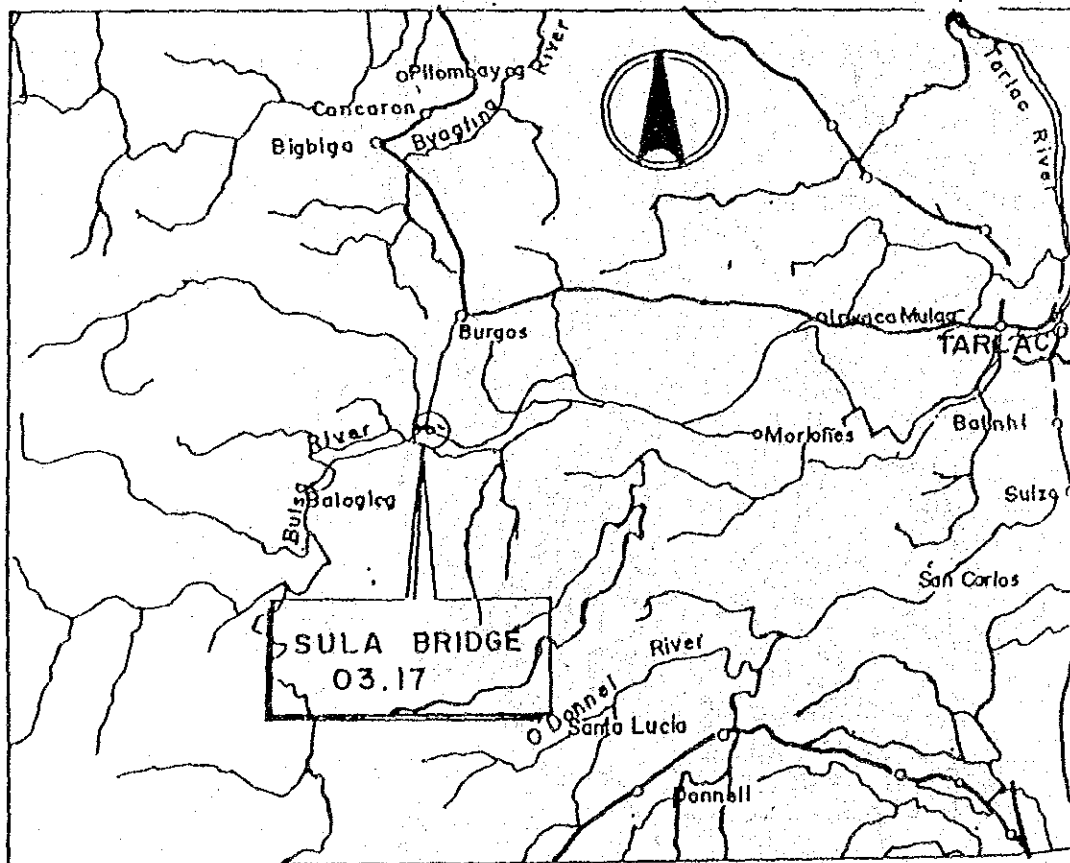
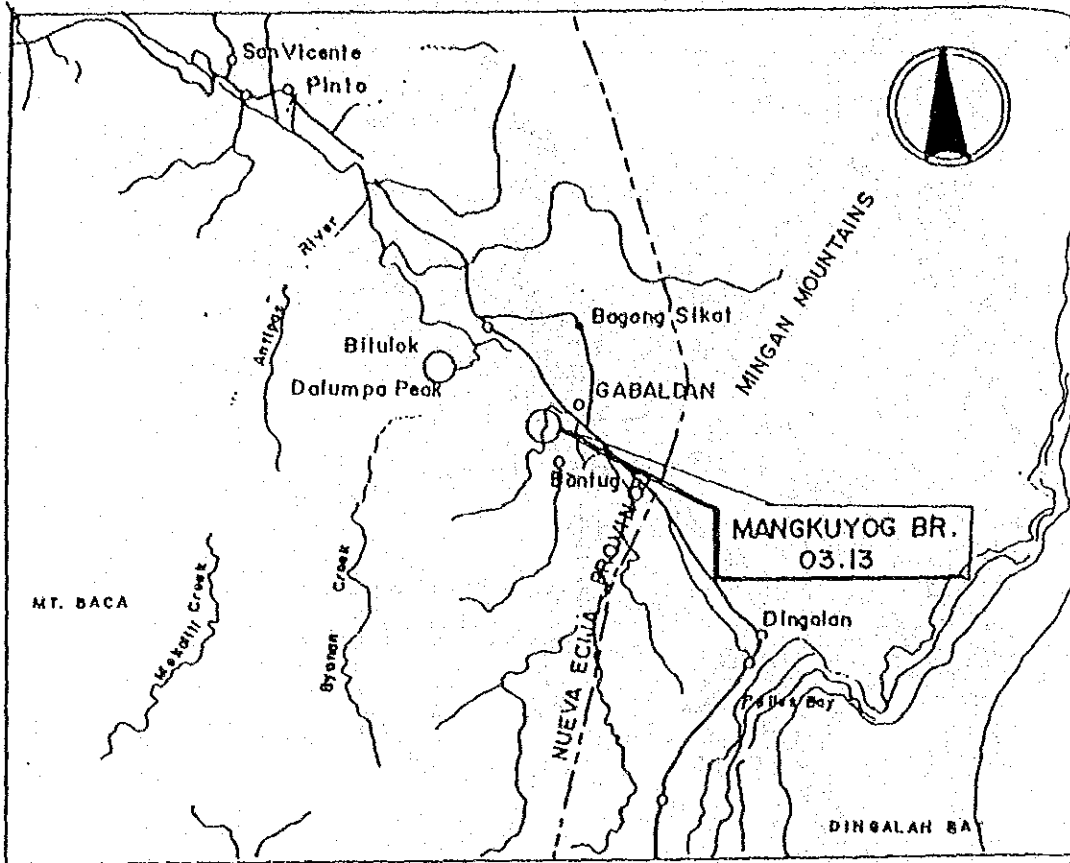
DATA OF TOPOGRAPHIC SURVEY

No. No.	Name of Bridge	Location	Survey (m)	Survey(m)	Survey along the Road (section)	Survey along the River (section)	(Point)	Map (Sheet)
1 01.02	MAPHILINDO BRIDGE	Km.220+900 Bimmaley, Bangasinan	360.0	360.0	20	10	2	1
2 03.03	BACONG BRIDGE	Km.105+360 Bacong. Bataan	280.0	280.0	20	10	2	1
3 03.07	SANROQUE BRIDGE	Km.57+284 Hagonoy, Bulacan	170.0	170.0	20	10	2	1
4 03.10	DOLORES BRIDGE	Km.76+870 Bacolor, Pampanga	255.0	255.0	20	10	2	1
5 03.13	MANGKUYOG BRIDGE	Km.169+000 Nueva Ecija	395.0	395.0	35	10	2	1
6 03.17	SULA BRIDGE	Km.150+000 Tarlac, Tarlac	270.0	270.0	20	10	2	1
7 03.19	LAOAG BRIDGE	Km.177+722 San Felipe,Zambales	310.0	310.0	20	10	2	1
8 04.07a	CAMAGONG BRIDGE	Km.23+700 Atabat, Quezon	270.0	270.0	20	10	2	1
9 04.20a	PARAGUSAN BRIDGE	Km.91+84 San Pablo City, Laguna	280.0	280.0	20	10	2	1
10 04.07b	TAN-AGAN BRIDGE	Km.11+100 San Andres, Romblon	250.0	250.0	20	10	2	1
11 04.10b -2	IHATUB BRIDGE	Km.116+832.85 Boac, Marinduque	260.0	260.0	20	10	2	1
	Total		3,100.0	3,100.0	235	110	22	11

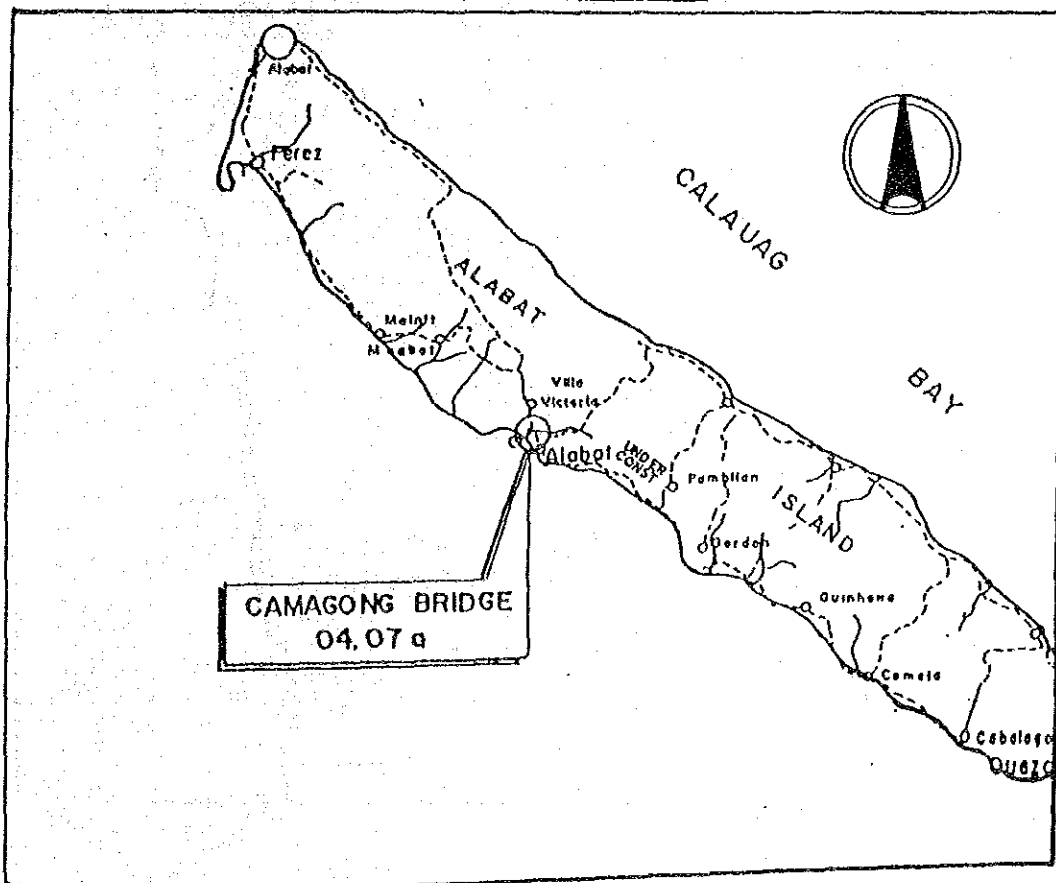
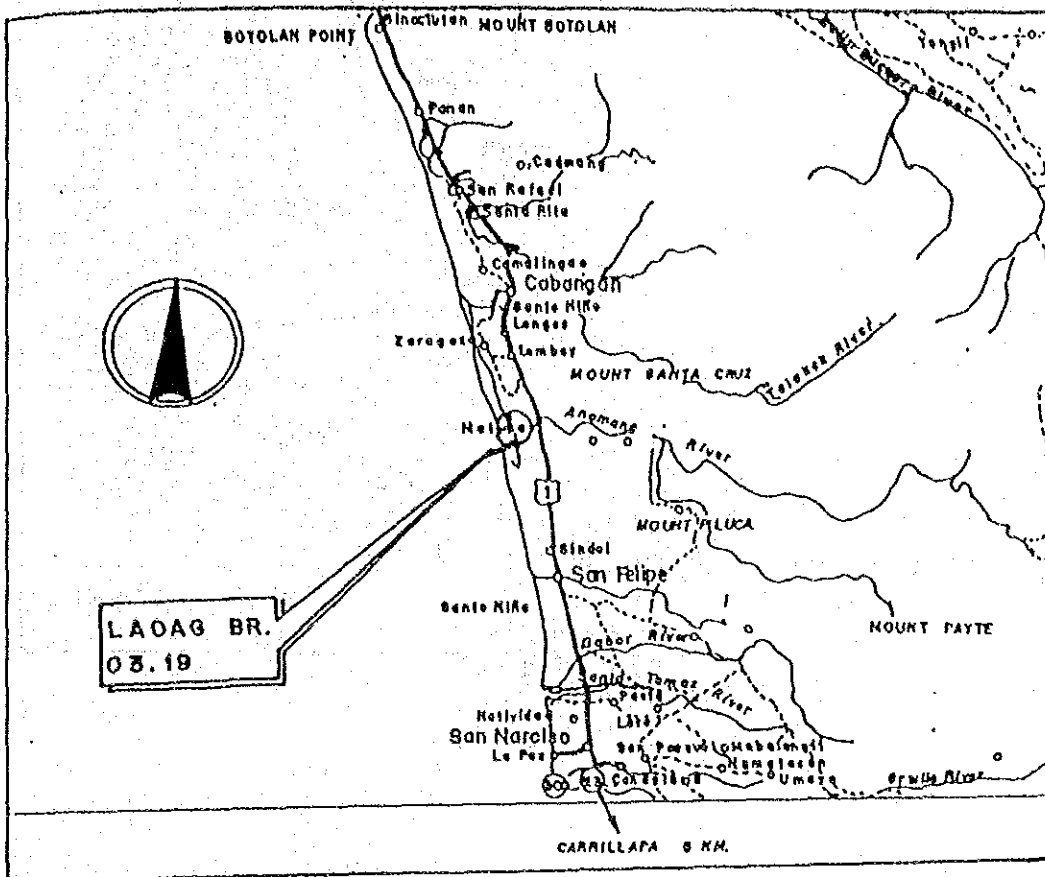


LOCATION MAP (2/6)

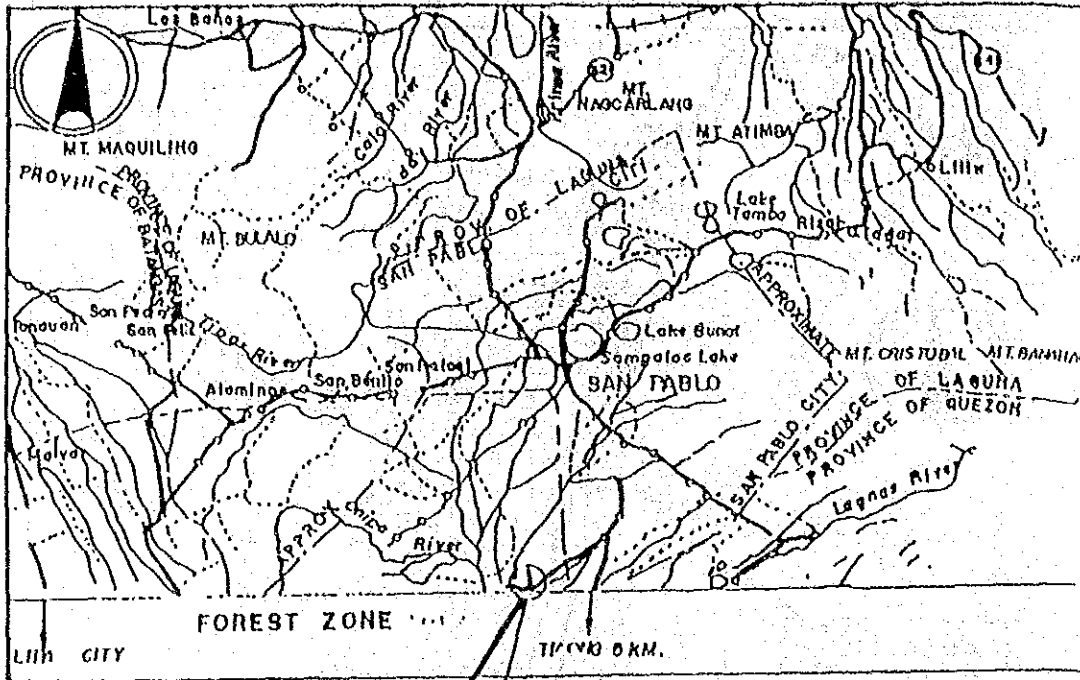




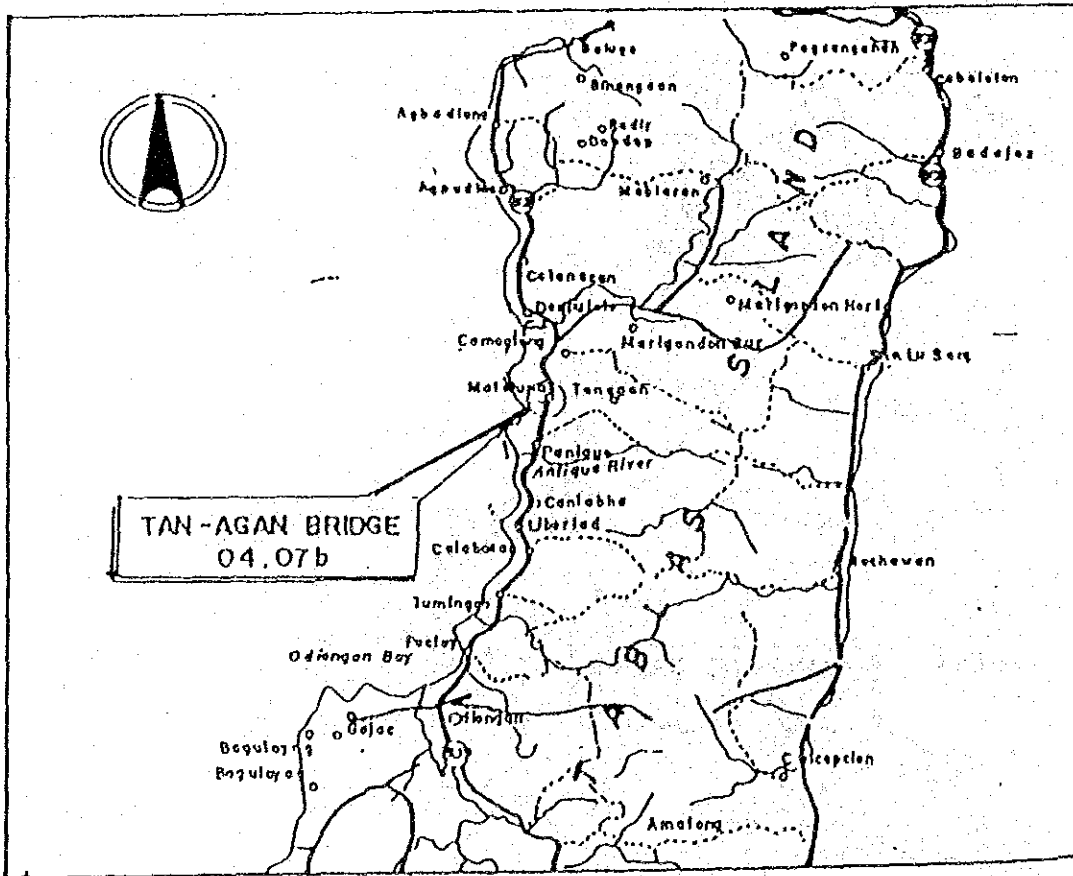
LOCATION MAP (4/6)



LOCATION MAP (5/6)



PARAGUSAN BRIDGE
04.20a



TAN-AGAN BRIDGE
04.07b

LOCATION MAP (6/6)

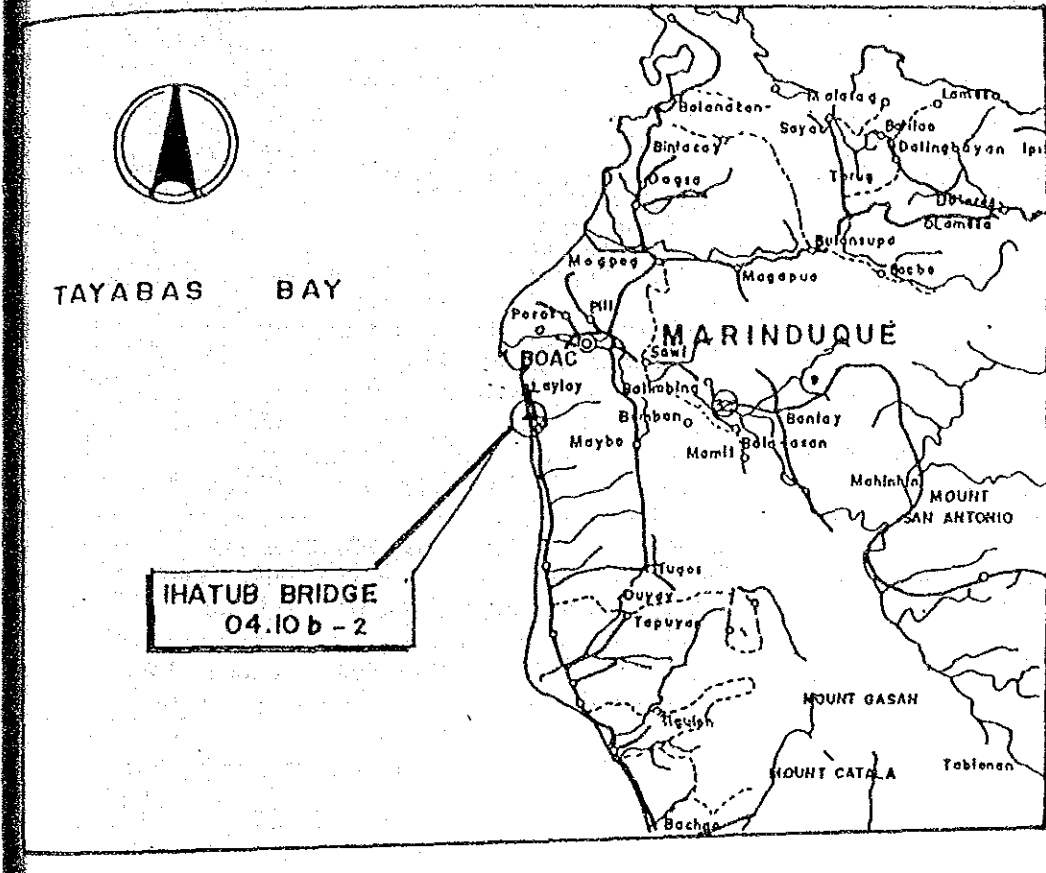
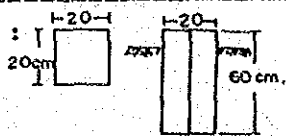


TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (1/22)
01.02 MAPHILINDO BRIDGE

STATION NO.	:	BM-1 TO BM-2		
MUNICIPALITY	:	Binmaley, Pangasinan		
DATE ESTABLISHED	:	Dec. 02, 1989		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
BM-1	20040.65	20096.24	20.021	CONC. MON.
PI-1	20003.89	20004.79	20.231	SPIKE
PI-2	19837.58	19869.27	20.210	SPIKE
BM-2	19790.04	19807.60	19.882	CONC. MON.

SKETCH AND REMARKS :

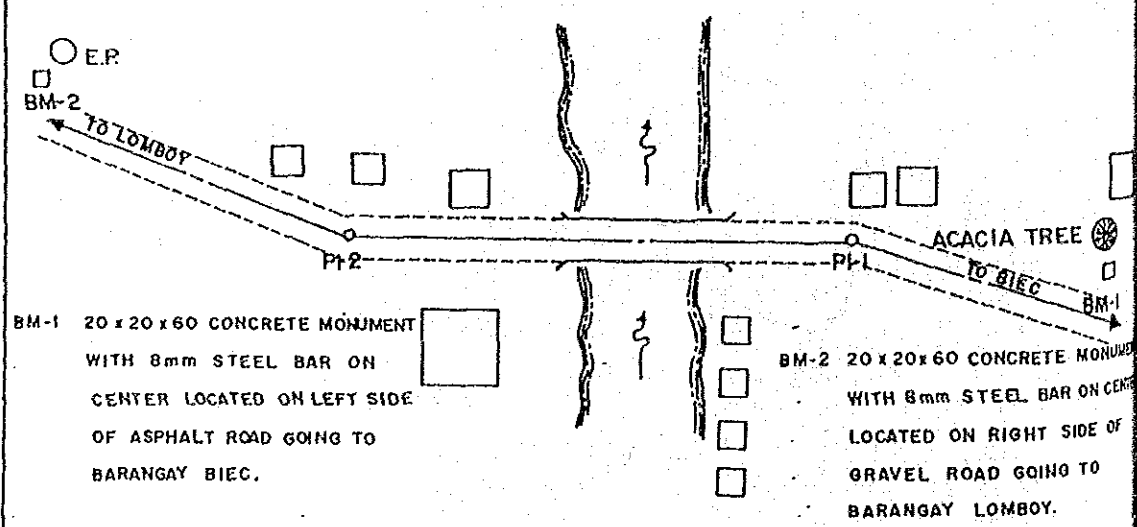
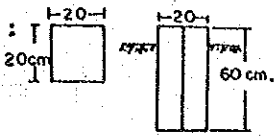


TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (2/22)
01.02 MAPHILINDO BRIDGE

STATION NO.	:	EM-1 TO EM-2		
MUNICIPALITY	:	Binmaley, Pangasinan		
DATE ESTABLISHED	:	Dec. 02, 1987		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
EM-1	20040.65	20096.24	20.021	CIRC. MON.
PI-1	20003.89	20004.79	20.231	SPIKE
PI-2	19837.50	19869.27	20.210	SPIKE
EM-2	19790.04	19807.60	19.802	CIRC. MON.

SKETCH AND REMARKS :

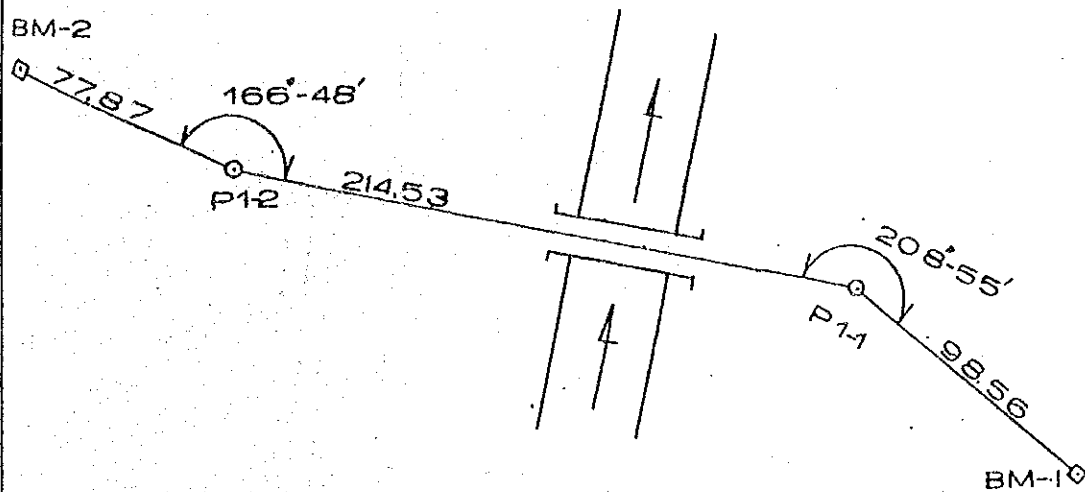


TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (3/22)
03.03 BACONG BRIDGE

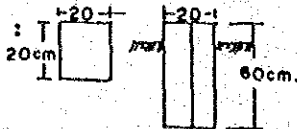
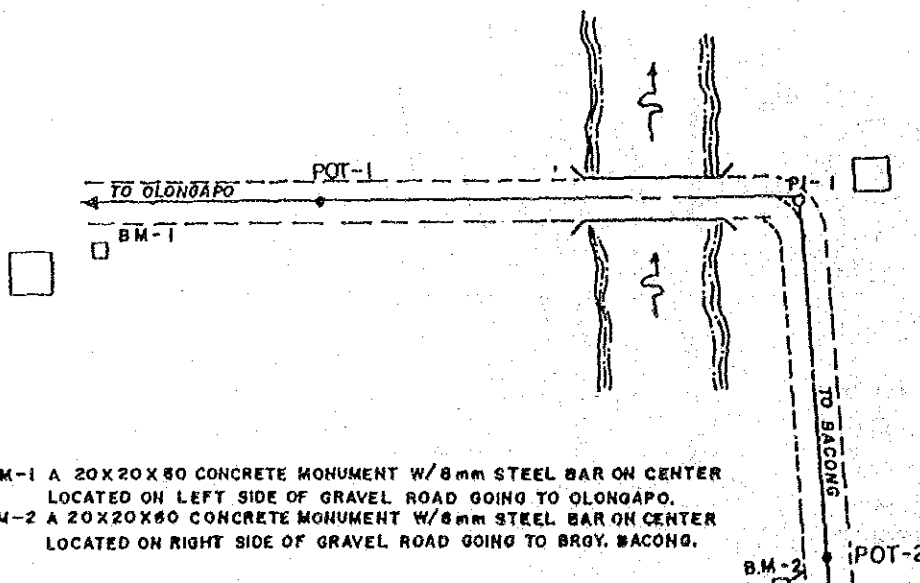
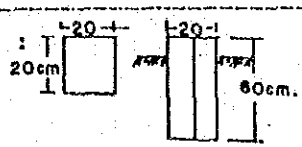
STATION NO.	:	BM-2 TO BM-1		
MUNICIPALITY	:	Dinalupihan, Bataan		
DATE ESTABLISHED	:	Dec. 02, 1989		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
BM-2	19916.83	19927.23	51.294	CONC. MON
PI-1	20000.00	20000.00	51.123	SPIKE
POT-1	20117.20	19903.84	50.123	SPIKE
POT-2	19926.37	19937.70	51.393	SPIKE
BM-1	20204.06	19825.41	50.000	CONC. MON
<p>SKETCH AND REMARKS :</p>  <p>BM-1 A 20X20X80 CONCRETE MONUMENT W/8mm STEEL BAR ON CENTER LOCATED ON LEFT SIDE OF GRAVEL ROAD GOING TO OLONGAPO. BM-2 A 20X20X80 CONCRETE MONUMENT W/8mm STEEL BAR ON CENTER LOCATED ON RIGHT SIDE OF GRAVEL ROAD GOING TO BROY, BACONG.</p>				

TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (4/22)
03.03 BACING BRIDGE

STATION NO.	:	BM-2 TO BM-1		
MUNICIPALITY	:	Dinalupihan, Bataan		
DATE ESTABLISHED	:	Dec. 02, 1989		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
BM-2	19916.83	19727.23	51.274	CONC. MON
PI-1	20000.00	20000.00	51.123	SPIKE
POT-1	20117.20	19903.84	50.123	SPIKE
POT-2	19926.37	19937.70	51.393	SPIKE
BM-1	20204.06	19825.41	50.000	CONC. MON

SKETCH AND REMARKS :

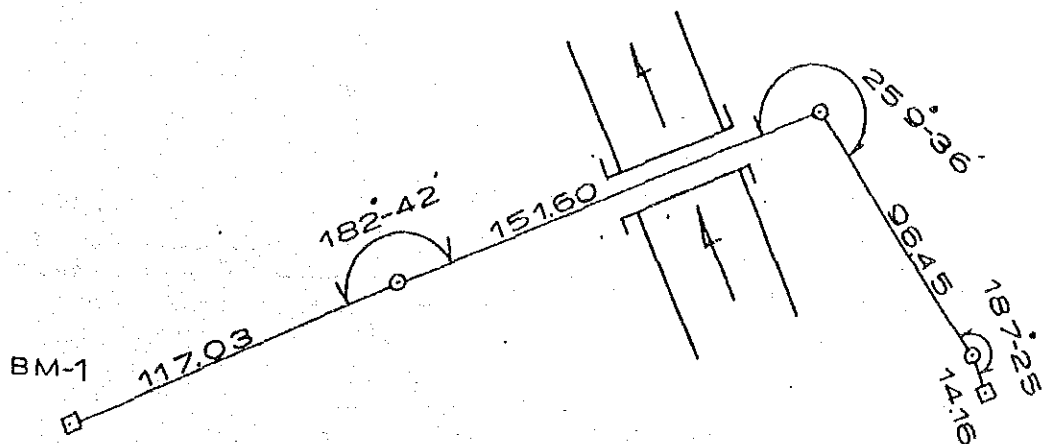


TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (5/22)
03.07 SAN ROQUE BRIDGE

STATION NO.	:	BM-2 TO BM-1		
MUNICIPALITY	:	Hagonoy, Bulacan		
DATE ESTABLISHED	:	Nov. 29, 1989		
SIZE OF MONUMENT				
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
BM-2	9844.68	9953.17	20.039	CONC. MON
T-2	9865.19	9967.63	20.020	SPIKE
BM-1=T-1	10000.00	10000.00	20.000	CONC. MON

SKETCH AND REMARKS :

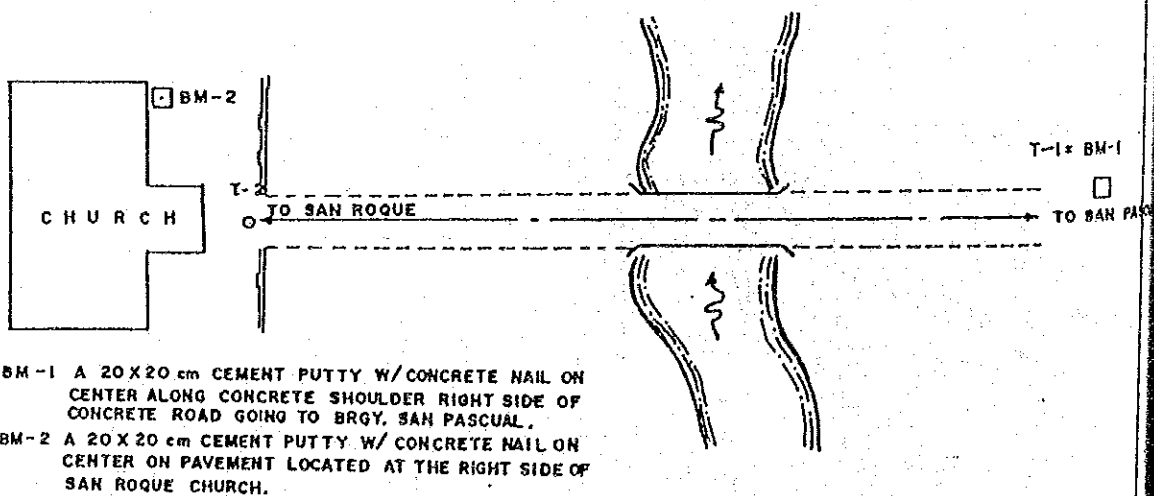


TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (6/22)
03.07 SAN ROGUE BRIDGE

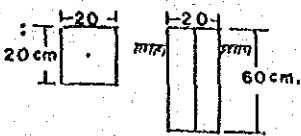
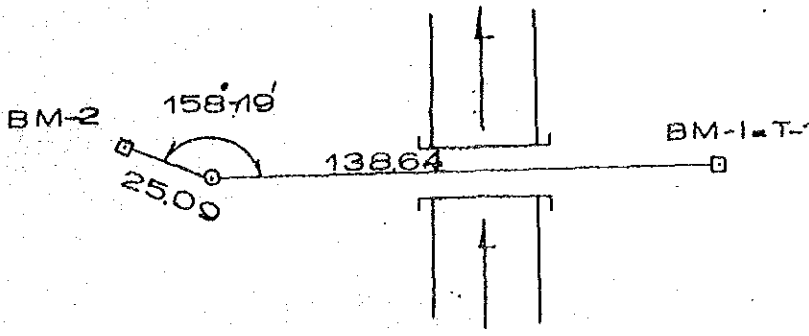
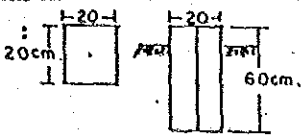
STATION NO.	:	BM-2 TO BM-1		
MUNICIPALITY	:	Hagonoy, Bulacan		
DATE ESTABLISHED	:	Nov. 29, 1989		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
BM-2	9844.68	9953.17	20.039	CONC. MON
T-2	9865.19	9967.63	20.020	SPIKE
BM-1=T-1	10000.00	10000.00	20.000	CONC. MON
SKETCH AND REMARKS :				
				

TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (7/22)
03.10 DOLORES BRIDGE

STATION NO.	:	T-3=BM-2 , T-1=BM-1		
MUNICIPALITY	:	Bacolor, Pampanga		
DATE ESTABLISHED	:	Dec. 02, 1989		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
T-3=BM-2	10052.68	10086.03	21.070	CONC. MON.
T-2	10000.00	10000.00	18.541	SPIKE
T-1=BM-1	9942.19	9888.71	20.000	CONC. MON.
SKETCH AND REMARKS :				
<p>BM-1 A 20X20 CEMENT PUTTY W/ CONCRETE NAIL ON CENTER ON RIGHT EDGE OF CONCRETE ROAD GOING TO BRGY. DEL ROSARIO.</p> <p>BM-2 A 20 X 20 CEMENT PUTTY W/ CONCRETE NAIL ON CENTER ON RIGHT EDGE OF CONCRETE ROAD GOING TO BACoor TOWH PROPER.</p>				

TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (8/22)

03.10 IXLORES BRIDGE

STATION NO.	:	T-3=BM-2 , T-1=BM-1
MUNICIPALITY	:	Bacolor, Pampanga
DATE ESTABLISHED	:	Dec. 02, 1989
SIZE OF MONUMENT	:	

COORDINATES AND ELEVATION

STATION	NORTHING	EASTING	ELEVATION	REMARKS
T-3=BM-2	10052.68	10086.03	21.070	CONC. PUN.
T-2	10000.00	10000.00	18.541	SPIKE
T-1=BM-1	9942.19	9889.71	20.000	CONC. PUN.

SKETCH AND REMARKS :

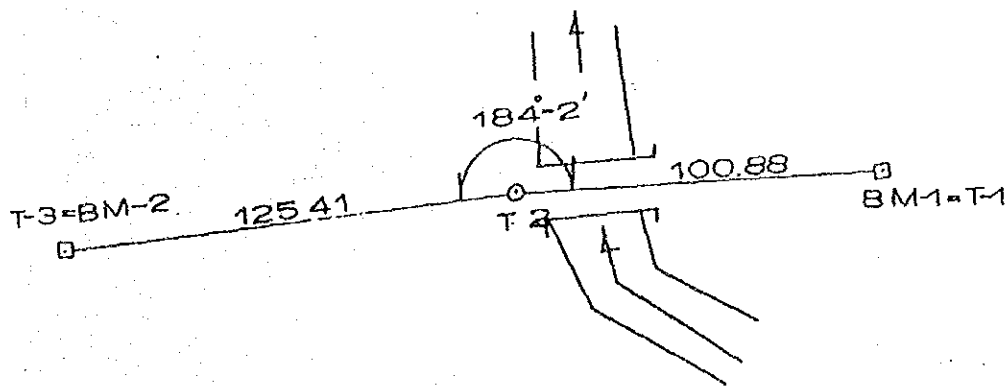
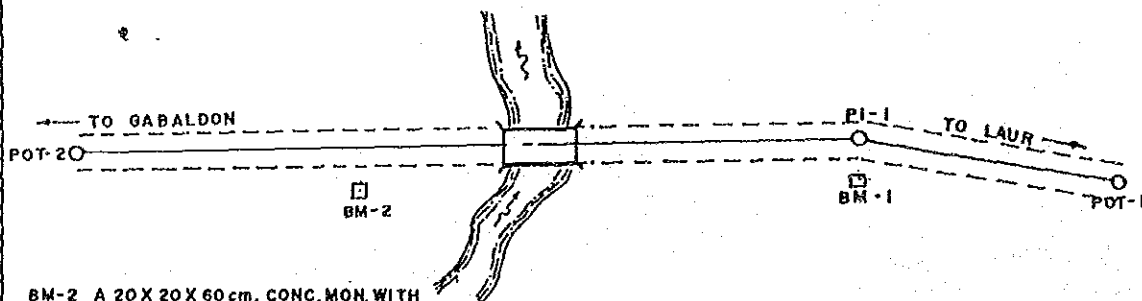


TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (9/22)
03.13 MANSKUYOG BRIDGE (SIGUM BR.)

STATION NO.	:	POT-2 TO POT-1			
MUNICIPALITY	:	Gabaldon, Nueva Ecija			
DATE ESTABLISHED	:	Dec. 28, 1989			
SIZE OF MONUMENT	:				
COORDINATES AND ELEVATION					
STATION		NORTHING	EASTING	ELEVATION	REMARKS
POT-2		19821.677	20215.911	104.901	SPIKE
BM-2		19879.949	20162.144	101.801	CONC. MON.
PI-1		20000.000	20000.000	99.322	SPIKE
BM-1		20007.691	20006.057	100.000	CONC. MON.
POT-1		20067.515	19945.974	101.221	SPIKE

SKETCH AND REMARKS :



BM-2 A 20X20X60cm. CONC. MON. WITH CONC. NAIL ON CENTER LOCATED ON THE LEFT SIDE OF DIRT ROAD GOING TO GABALDON PROPER.

BM-1 A 20X20X60cm. CONC. MON. WITH CONC. NAIL ON CENTER LOCATED ON THE RIGHT SIDE OF DIRT ROAD GOING TO LAUR PROPER.

TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (10/22)
 03.13 MANSUKUYOG BRIDGE (SIGUM BR.)

STATION NO.	:	POT-2 TO POT-1		
MUNICIPALITY	:	Gabaldon, Nueva Ecija		
DATE ESTABLISHED	:	Dec. 28, 1989		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
POT-2	19821.677	20215.911	104.901	SPIKE
BM-2	19879.949	20162.144	101.801	CONC. MON.
POT-1	20000.000	20000.000	99.322	SPIKE
BM-1	20007.691	20006.057	100.000	CONC. MON.
POT-1	20067.515	19945.974	101.221	SPIKE

NOTICE AND REMARKS :

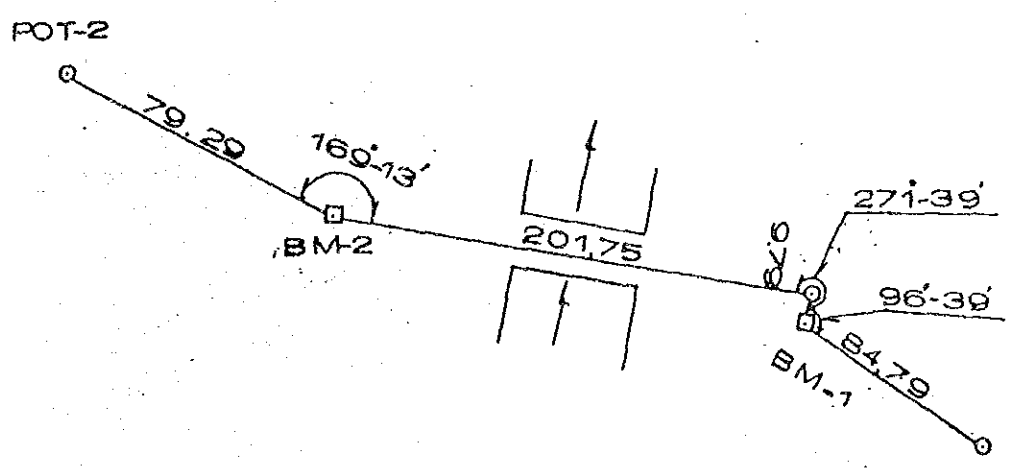
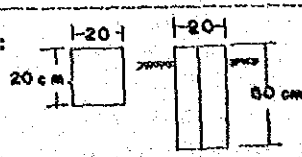
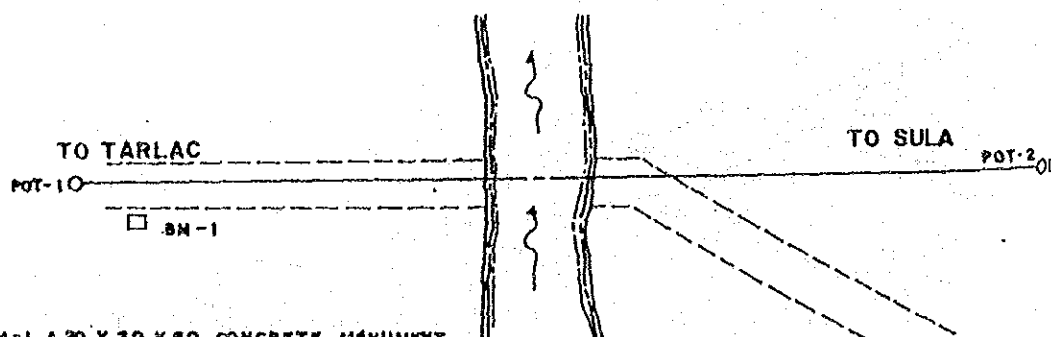


TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (11/22)
03.17 SULA BRIDGE

STATION NO.	:	BM-1 TO BM-2		
MUNICIPALITY	:	Tarlac, Tarlac		
DATE ESTABLISHED	:	Dec. 4, 1989		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
BM-1	9976.58	10074.40	20.000	CONC. MON
POT-1	9972.07	10083.70	19.920	SPIKE
POT-2	10052.79	9855.56	20.236	SPIKE
BM-2	10053.68	9954.87	20.274	CONC. MON

SKETCH AND REMARKS :



BM-1 A 20 X 20 X 80 CONCRETE MONUMENT WITH CONCRETE NAIL ON CENTER SITUATED ON LEFT SIDE OF DIRT ROAD GOING TO TARLAC.

BM-2 A 20 X 20 X 80 CONCRETE MONUMENT WITH CONCRETE NAIL ON CENTER SITUATED ON LEFT SIDE OF DIRT ROAD GOING TO BRGY. SULA.

TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (12/22)
03.17 S.L.A BRIDGE

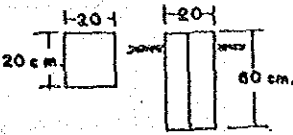
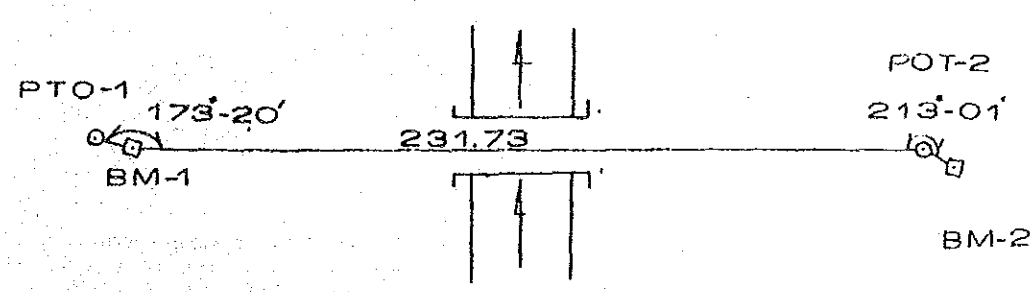
STATION NO.	: BM-1 TO BM-2			
MUNICIPALITY	: Tarlac, Tarlac			
DATE ESTABLISHED	: Dec. 4, 1969			
SIZE OF INSTRUMENT	: 			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
BM-1	9976.58	10074.40	20.000	CONC. MON
POT-1	9972.07	10083.70	19.920	SPIKE
POT-2	10052.79	9055.56	20.236	SPIKE
BM-2	10053.60	9954.87	20.274	CONC. MON
SKETCH AND DETAILS :				
				

TABLE 2. DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (13/22)
03.19 LAOAG BRIDGE

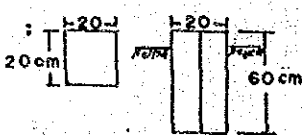
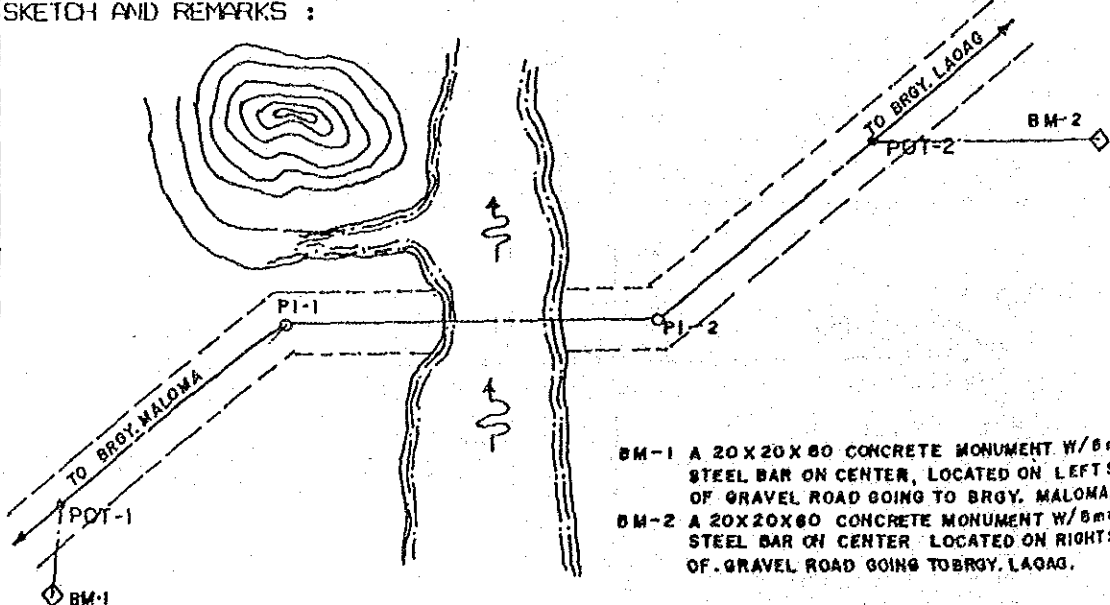
STATION NO.	:	BM-1 TO BM-2		
MUNICIPALITY	:	San Felipe, Zambales		
DATE ESTABLISHED	:	Dec. 02, 1989		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
BM-1	20058.77	20100.07	20.000	CONC. MON
PI-1	19972.00	20001.35	20.920	SPIKE
PI-2	19999.52	19891.05	20.407	SPIKE
POT-1	20018.93	20062.34	20.112	SPIKE
POT-2	19929.37	19842.34	20.460	SPIKE
BM-2	19899.82	19795.14	20.133	SPIKE
SKETCH AND REMARKS :				
 <p>BM-1 A 20X20X80 CONCRETE MONUMENT W/8mm. STEEL BAR ON CENTER, LOCATED ON LEFT SIDE OF GRAVEL ROAD GOING TO BRGY. MALOMA.</p> <p>BM-2 A 20X20X60 CONCRETE MONUMENT W/8mm. STEEL BAR ON CENTER LOCATED ON RIGHT SIDE OF GRAVEL ROAD GOING TO BRGY. LAOAG.</p>				

TABLE 2. DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (14/22)
03.17 LADAG BRIDGE

STATION NO.	:	BM-1 TO BM-2		
MUNICIPALITY	:	San Felipe, Zambales		
DATE ESTABLISHED	:	Dec. 02, 1989		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
BM-1	20050.77	20100.07	20.000	CONC. MON
PI-1	19972.00	20001.35	20.920	SPIKE
PI-2	19979.52	19891.05	20.407	SPIKE
POT-1	20018.93	20062.34	20.112	SPIKE
POT-2	19929.37	19842.34	20.460	SPIKE
BM-2	19899.82	19795.14	20.133	SPIKE
SKETCH AND REMARKS :				

TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (15/22)

04.07a CAMAGONG BRIDGE

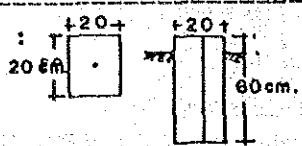
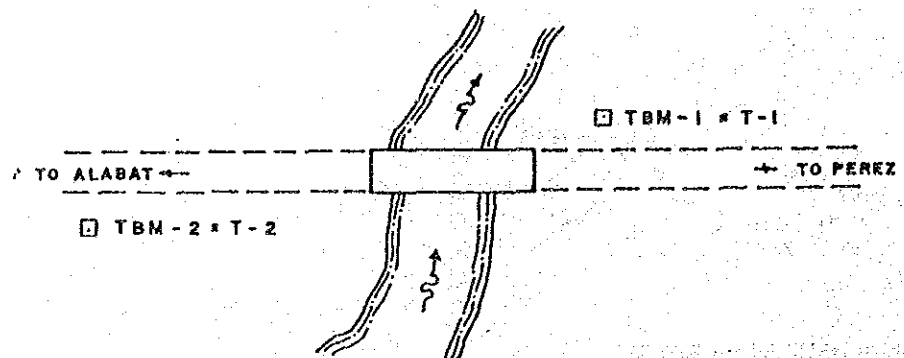
STATION NO.	:	TBM-2 TO TBM-1		
MUNICIPALITY	:	Alabat, Quezon		
DATE ESTABLISHED	:	Dec. 02, 1989		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
TBM-2	9798.83	10096.64	19.800	CONC. MON
TBM-1	10000.00	10000.00	21.330	CONC. MON
SKETCH AND REMARKS :				
				
<p>TBM - 2 A 20 x 20 x 60 cm. CONCRETE MONUMENT WITH CONCRETE NAIL ON CENTER LOCATED ON LEFT SIDE OF DIRT ROAD GOING TO ALABAT</p>		<p>TBM - 1 A 20 x 20 x 60 cm CONCRETE MONUMENT WITH CONCRETE NAIL ON CENTER LOCATED ON LEFT SIDE OF DIRT ROAD GOING TO PEREZ.</p>		

TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (16/22)
04.07a CAMASONG BRIDGE

STATION NO.	:	TBM-2 TO TBM-1		
MUNICIPALITY	:	Alabat, Quezon		
DATE ESTABLISHED	:	Dec. 02, 1989		
SIZE OF PLACEMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
TBM-2	9793.83	10096.64	19.800	CONC. MON
TBM-1	10000.00	10000.00	21.330	CONC. MON
<p>SKETCH AND DIMENSIONS :</p>				

TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (17/22)
04.20a PARAGUSAN BRIDGE

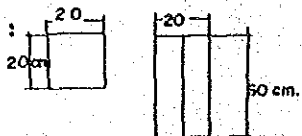
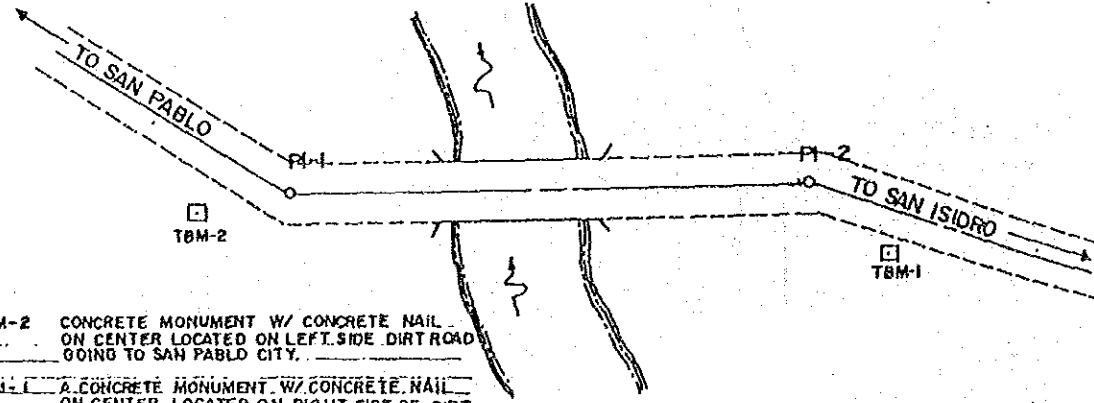
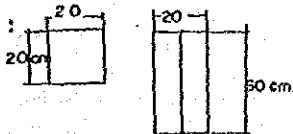
STATION NO.	:	TBM-1 TO TBM-2		
MUNICIPALITY	:	San Pablo City		
DATE ESTABLISHED	:	Dec. 03, 1989		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
TBM-1=T-1	10000.00	10000.00	47.242	CONC. MON
PI-1	10053.24	9911.25	46.941	SPIKE
PI-2	10012.32	9986.11	47.322	SPIKE
TBM-2=T-2	10109.77	9832.62	47.674	CONC. MON
SKETCH AND REMARKS :				
				
TBM-2	CONCRETE MONUMENT W/ CONCRETE NAIL ON CENTER LOCATED ON LEFT SIDE DIRT ROAD GOING TO SAN PABLO CITY.			
TBM-1	A CONCRETE MONUMENT W/ CONCRETE NAIL ON CENTER LOCATED ON RIGHT SIDE OF DIRT ROAD GOING TO SAN ISIDRO.			

TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (18/22)
04.20a PARAGUAYAN BRIDGE

STATION NO.	:	TBM-1 TO TBM-2
MUNICIPALITY	:	San Pablo City
DATE ESTABLISHED	:	Dec. 03, 1989
SIZE OF MONUMENT	:	

COORDINATES AND ELEVATION

STATION	NORTHING	EASTING	ELEVATION	REMARKS
TBM-1=T-1	10000.00	10000.00	47.242	CONC. MON
PI-1	10053.24	9911.25	46.941	SPIKE
PI-2	10012.32	9986.11	47.322	SPIKE
TBM-2=T-2	10109.77	9832.62	47.674	CONC. MON

NOTE AND REMARKS :

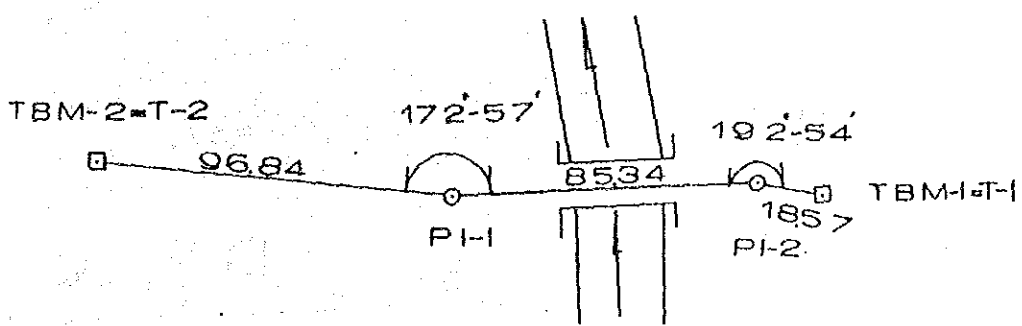


TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (19/22)
04.07b TAN-AGAN BRIDGE

STATION NO.	:	BM-1 TO BM-2		
MUNICIPALITY	:	San Andres, Romblon		
DATE ESTABLISHED	:	Dec. 10, 1989		
SIZE OF MONUMENT				
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
BM-1	9950.11	10023.23	10.000	CONC. MON
POT-1	9903.26	10025.31	10.690	SPIKE
POT-2	10000.00	10000.00	12.530	SPIKE
BM-2	10055.54	9978.20	10.600	CONC. MON
SKETCH AND REMARKS :				
<p>BM-1 A 20X20X60 CONCRETE MONUMENT W/ CONCRETE NAIL ON CENTER LOCATED ON LEFT SIDE OF DIRT ROAD GOING TO ODIONGAN.</p> <p>BM-2 A 20X20X60 CONCRETE MONUMENT W/ CONCRETE NAIL ON CENTER LOCATED ON LEFT SIDE DIRT ROAD GOING TO SAN ANDRES.</p>				

TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (20/22)
04.07b TAN-AGAN BRIDGE

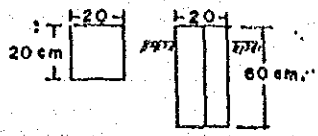
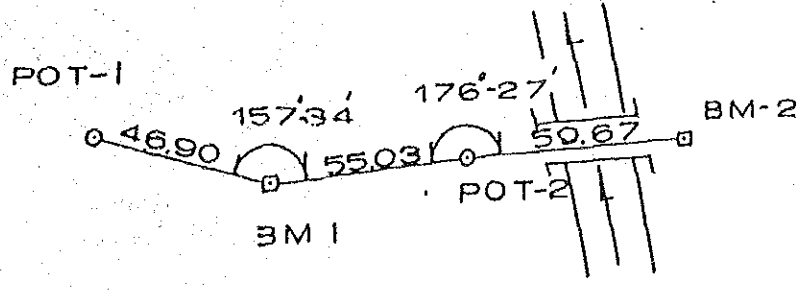
STATION NO.	:	BM-1 TO BM-2		
MUNICIPALITY	:	San Andres, Romblon		
DATE ESTABLISHED	:	Dec. 10, 1987		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
BM-1	7750.11	10023.23	10.000	CONC. MON
POI-1	4903.26	10025.31	10.690	SPIKE
POI-2	10000.00	10000.00	12.530	SPIKE
BM-2	10055.54	9978.20	10.600	CONC. MON
SKETCH AND REMARKS :				
				

TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (21/22)
04.10 b-2 IHATUB BRIDGE

STATION NO.	:	BM-1 TO BM-2		
MUNICIPALITY	:	Boac, Marinduque		
DATE ESTABLISHED	:	Dec. 02, 1989		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
BM-1	20004.28	19997.42	3.060	CONC. MON
BM-2	20050.05	20061.27	3.860	CONC. MON
PI-1	20000.00	20000.00	3.080	SPIKE
PI-2	20050.65	20029.02	1.370	SPIKE

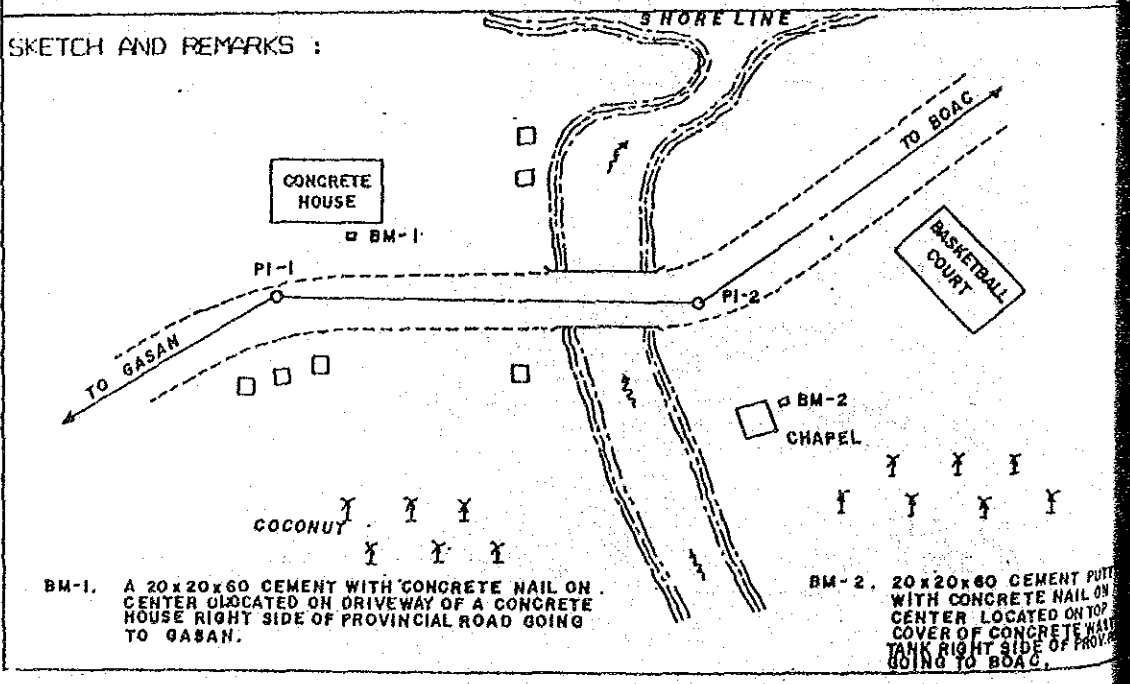
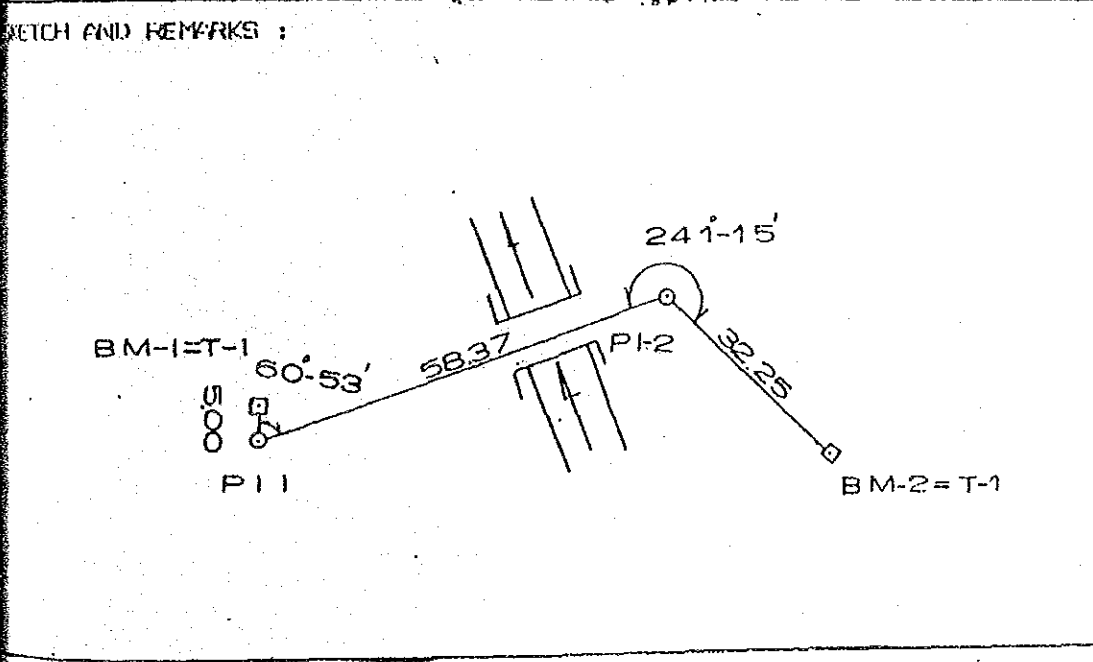
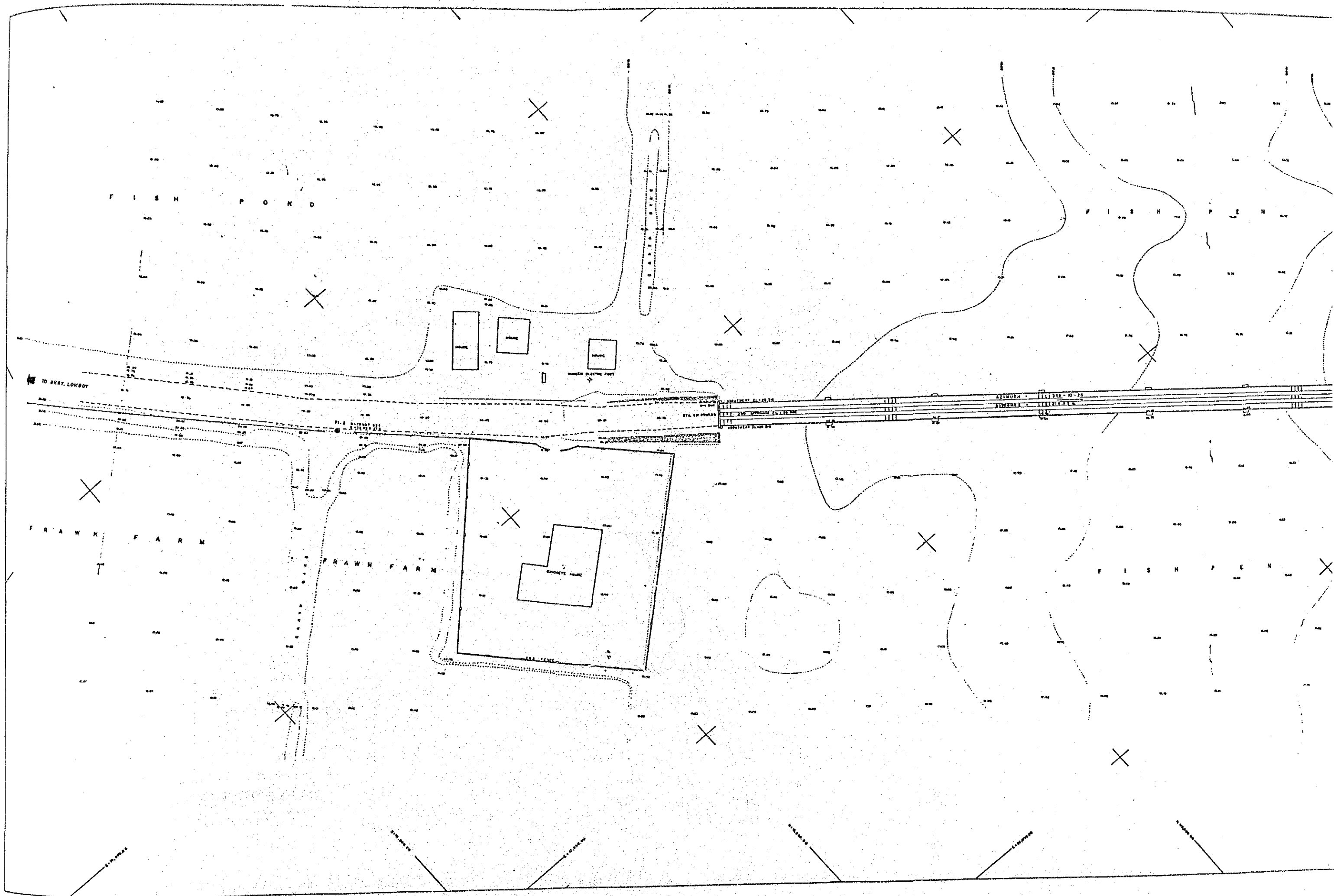


TABLE 2 DESCRIPTION OF TRAVERSE STATION AND BENCHMARK (22/22)
 04.10 b-2 HATUB EXPIKSE

STATION NO.	:	BM-1 TO BM-2		
MUNICIPALITY	:	Boac, Marikinaque		
DATE ESTABLISHED	:	Dec. 02, 1989		
SIZE OF MONUMENT	:			
COORDINATES AND ELEVATION				
STATION	NORTHING	EASTING	ELEVATION	REMARKS
BM-1	20004.28	19797.42	3.060	CONC. PTH
BM-2	20050.05	20061.27	3.820	CONC. PTH
PI-1	20000.00	20000.00	3.080	SPIKE
PI-2	20050.65	20029.02	1.570	SPIKE

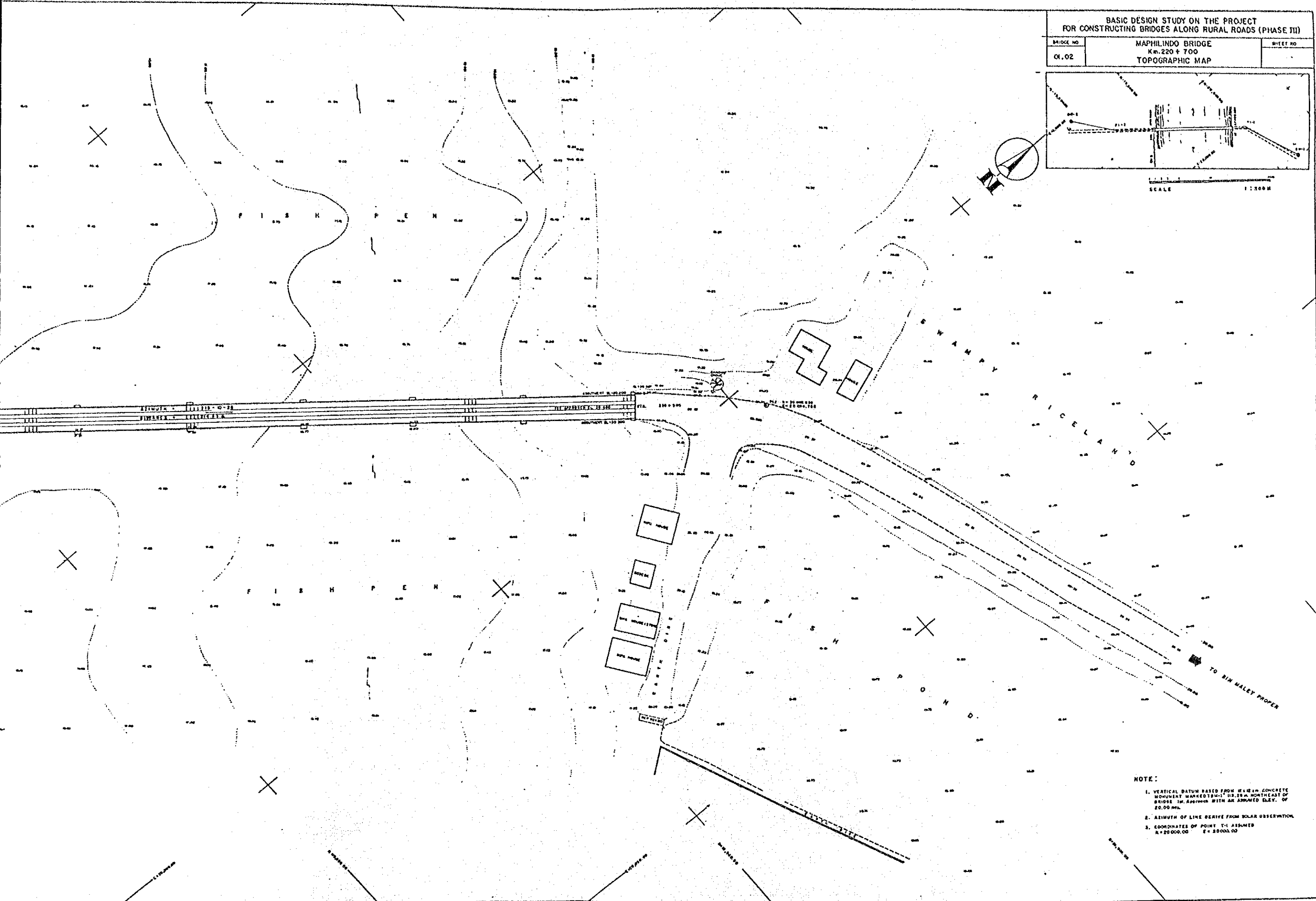
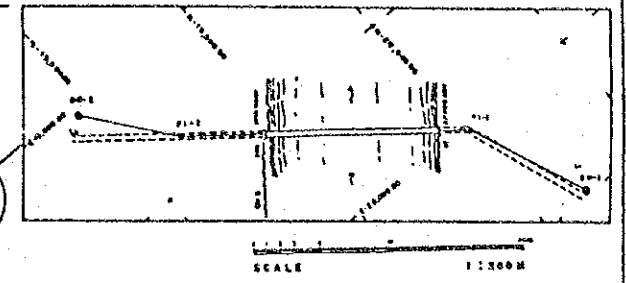


TOPOGRAPHIC MAP



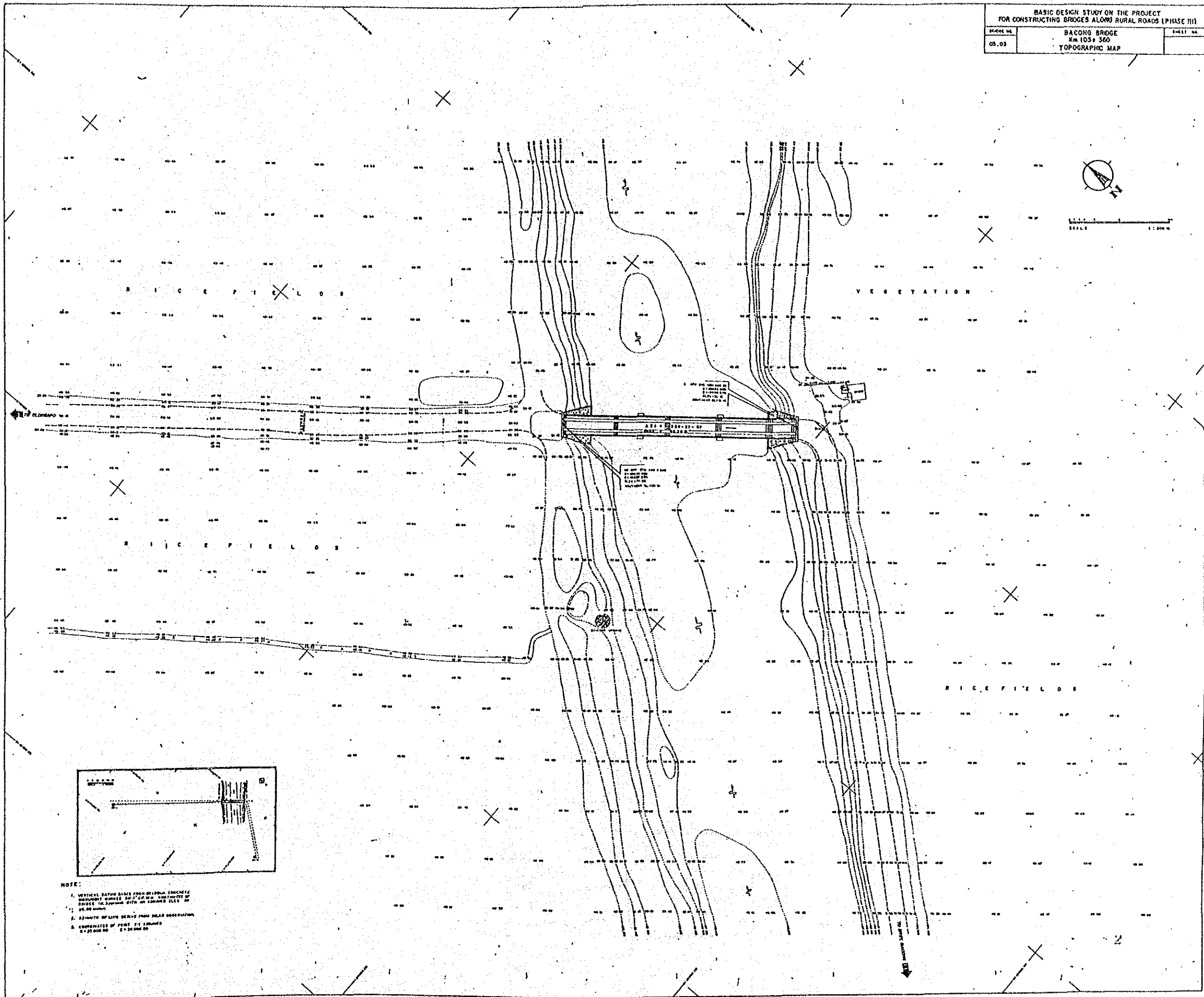
BASIC DESIGN STUDY ON THE PROJECT
 FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III)

BRIDGE NO.	MAPHILINDO BRIDGE	SHEET NO.
01.02	Km. 220 + 700	
	TOPOGRAPHIC MAP	



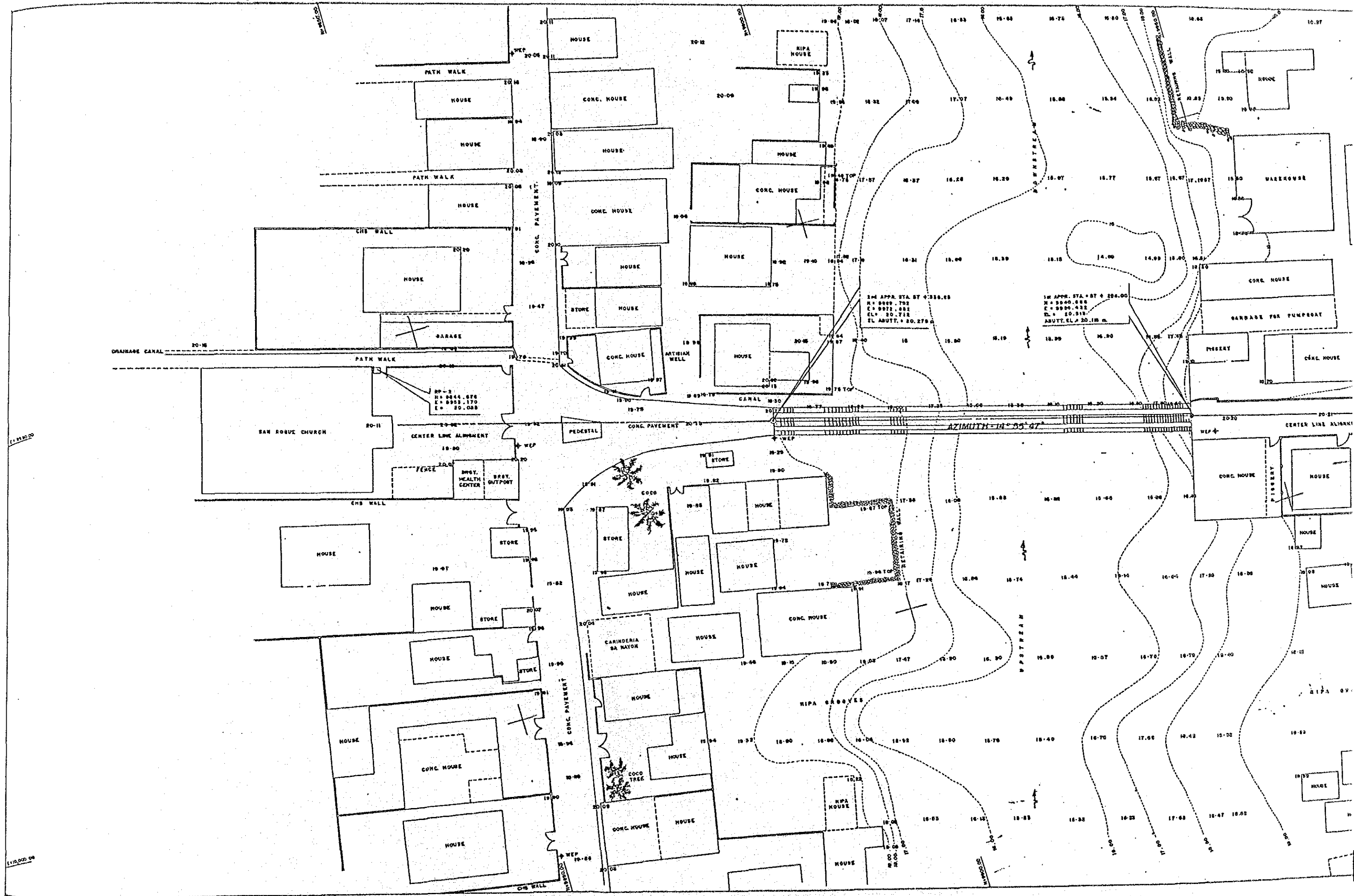
NOTE:

1. VERTICAL DATUM BASED FROM BENCH CONCRETE MONUMENT MARKED 'BM. 1' 10.15M NORTHEAST OF BRIDGE. IN APPROACH WITH AN ASSUMED ELEV. OF 20.00M.
2. AZIMUTH OF LINE BEHAVE FROM SOLAR OBSERVATION.
3. COORDINATES OF POINT 'T' ASSUMED
 N = 20000.00 E = 20000.00

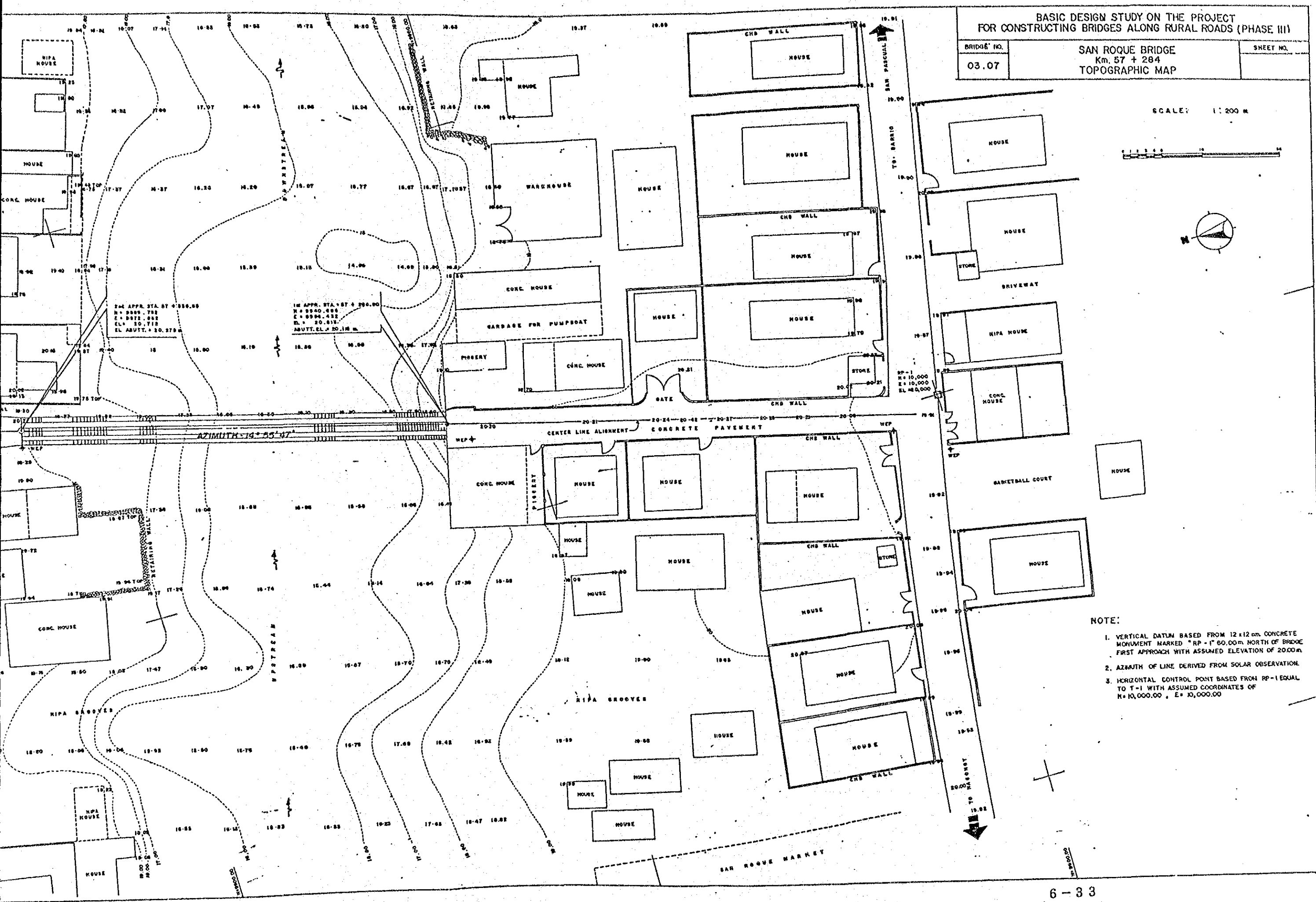


NOTE:

1. VERTICAL BATHY LINE AND BRIDGE LOCATION INDICATED BY DASHED LINE. THE LOCATION OF BRIDGE IS APPROXIMATE WITH AN ERROR OF 0.50 METERS.
2. ELEVATION OF LINE DENOTES FROM MEAN SEA LEVEL.
3. COORDINATES OF POINT A1 ARE 103+360.00



SCALE: 1:200 M



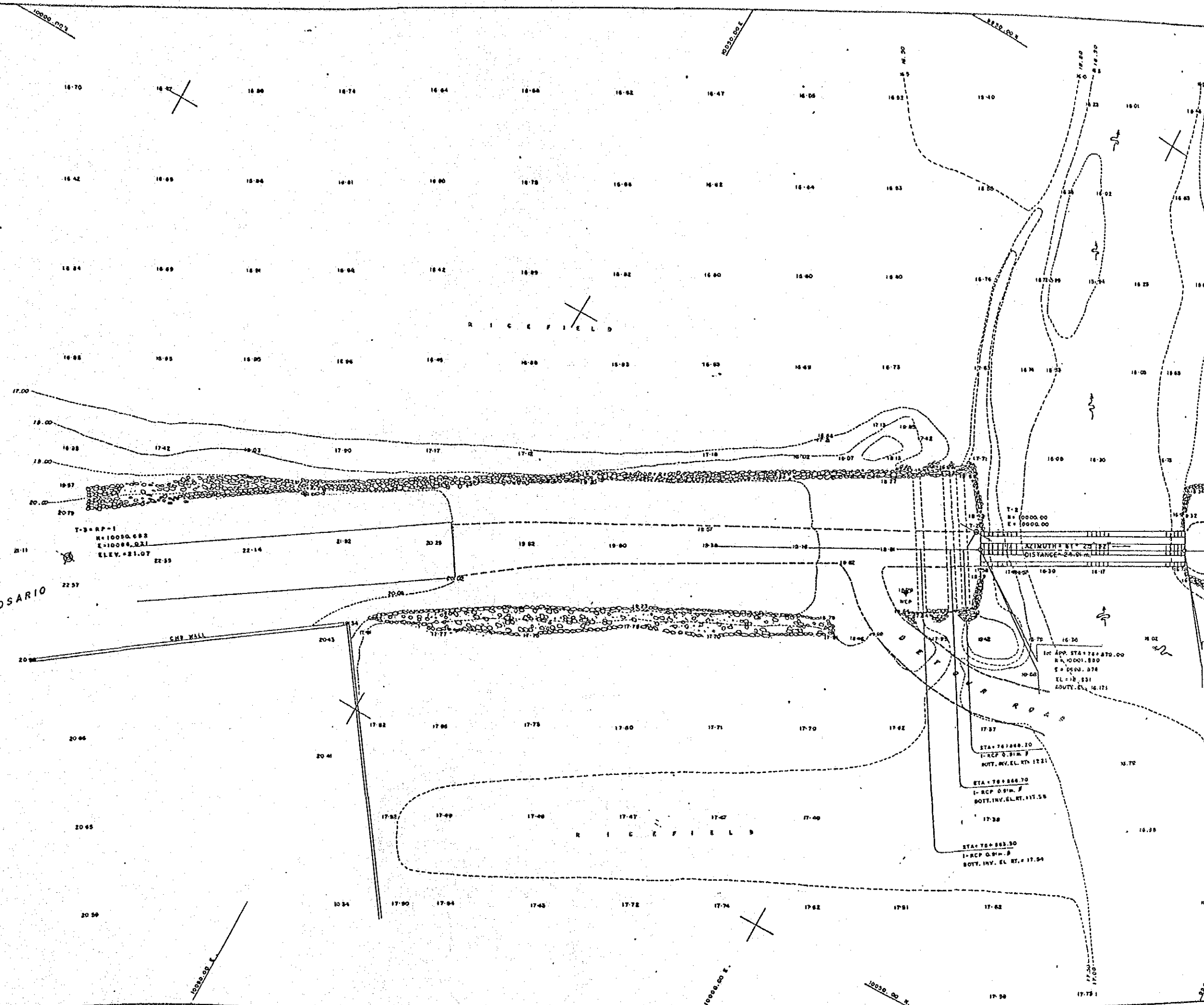
NOTE:

1. VERTICAL DATUM BASED FROM 12 x 12 cm CONCRETE MONUMENT MARKED "RP - 1" 60.00m NORTH OF BRIDGE FIRST APPROACH WITH ASSUMED ELEVATION OF 20.00m.
2. AZIMUTH OF LINE DERIVED FROM SOLAR OBSERVATION.
3. HORIZONTAL CONTROL POINT BASED FROM RP-1 EQUAL TO T-1 WITH ASSUMED COORDINATES OF N= 10,000.00 , E= 20,000.00

AVIATO DEL ROSARIO

RICEFIELD

RICEFIELD



T-S = RP-1
 H = 10000.682
 E = 10000.621
 ELEV. = 21.07

T-S
 H = 10000.00
 E = 10000.00

AXIMUTH = 81° 25' 12"
 DISTANCE = 24.61m

1st App. STA = 70+870.00
 H = 10001.880
 S = 0.0001.878
 EL = 18.851
 BOUTY. EL. RT. = 16.171

STA = 70+840.20
 1-RCP 0.91m β
 BOTT. INV. EL. RT. = 122.1

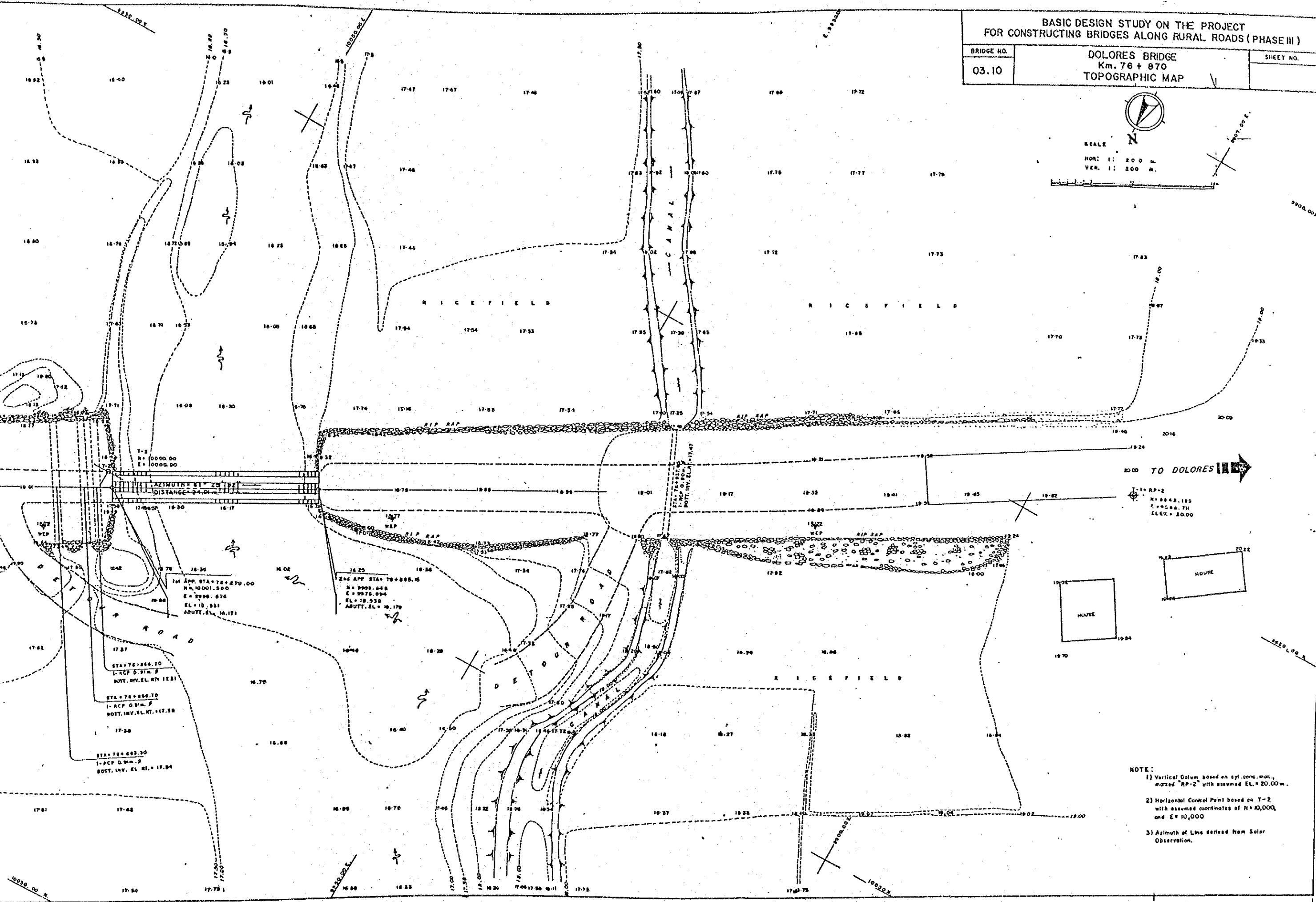
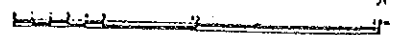
STA = 70+863.30
 1-RCP 0.91m β
 BOTT. INV. EL. RT. = 17.94

BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III)

BRIDGE NO.	DOLORES BRIDGE	SHEET NO.
03.10	Km. 76 + 870 TOPOGRAPHIC MAP	



SCALE
HORI. 1: 200 M.
VER. 1: 200 M.



1st APP. STA = 76 + 870.00
N = 10000.00
E = 10000.00
EL = 18.531
ADUTT. EL = 18.171

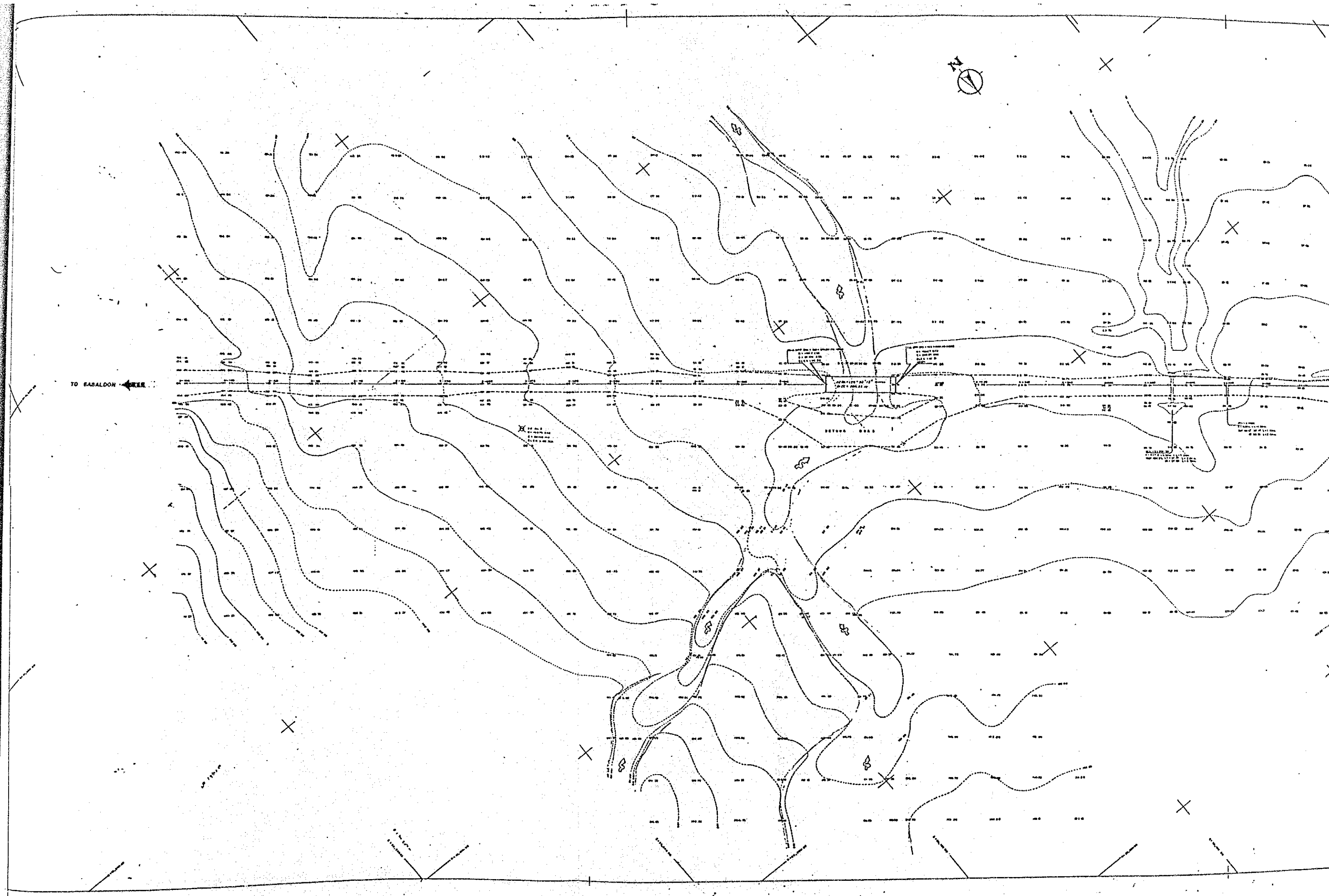
2nd APP. STA = 76 + 888.15
N = 9999.648
E = 9976.996
EL = 18.538
ADUTT. EL = 18.179

STA = 76 + 865.70
I-PCP O.S.M. #
NOTT. INV. EL. RT. = 17.31

STA = 76 + 864.70
I-PCP O.S.M. #
NOTT. INV. EL. RT. = 17.38

STA = 76 + 862.30
I-PCP O.S.M. #
NOTT. INV. EL. RT. = 17.84

NOTE:
1) Vertical Datum based on sylv. conc. man., marked "RP-2" with assumed EL = 20.00 m.
2) Horizontal Control Point based on T-2 with assumed coordinates of N = 10,000, and E = 10,000
3) Azimuth of Line derived from Solar Observation.



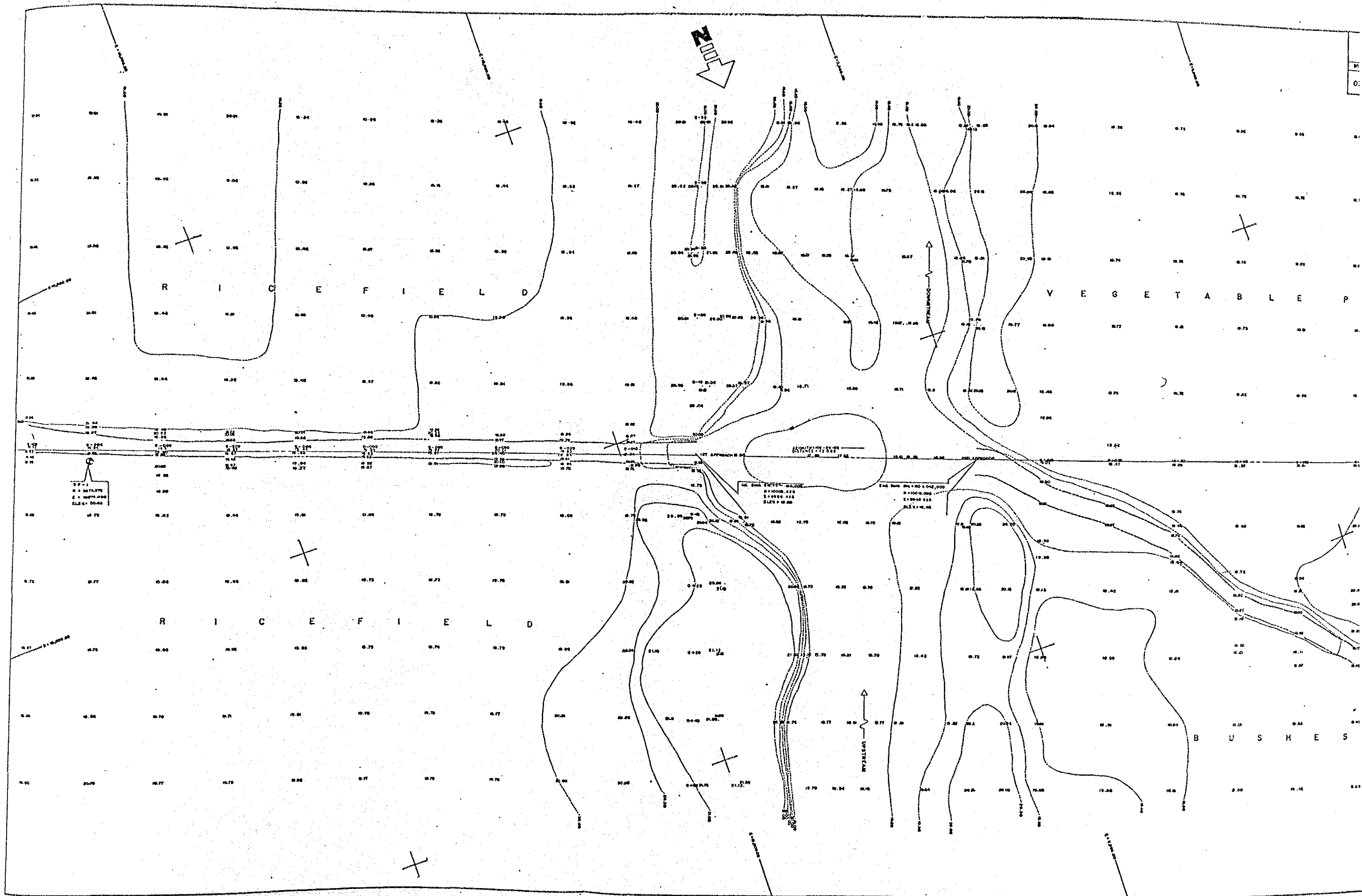
TO SARBALDON ←

UNIDENTIFIED
BUILDING

UNIDENTIFIED
BUILDING

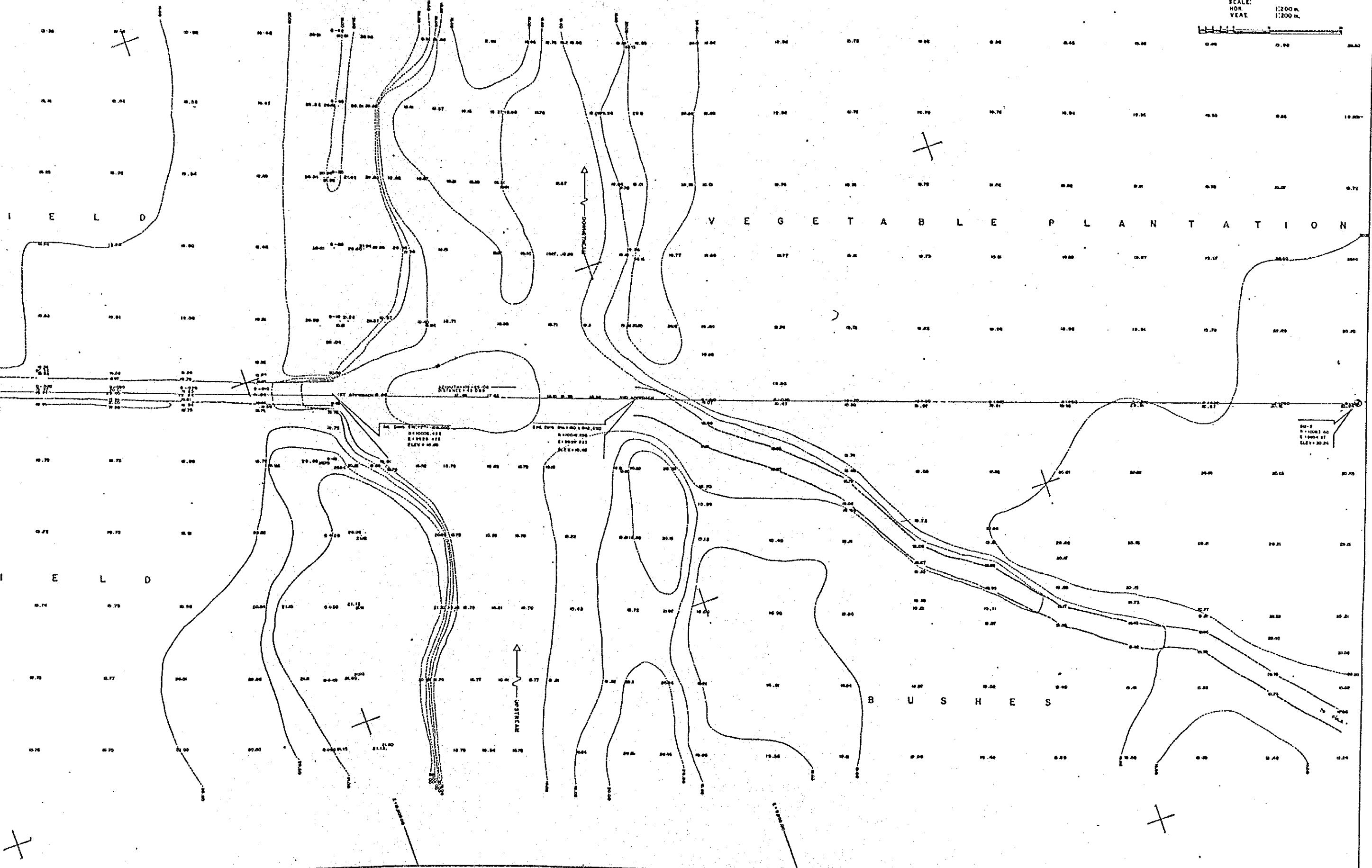
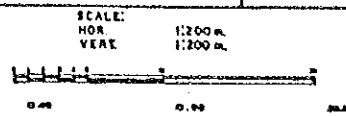
UNIDENTIFIED
BUILDING

UNIDENTIFIED
BUILDING

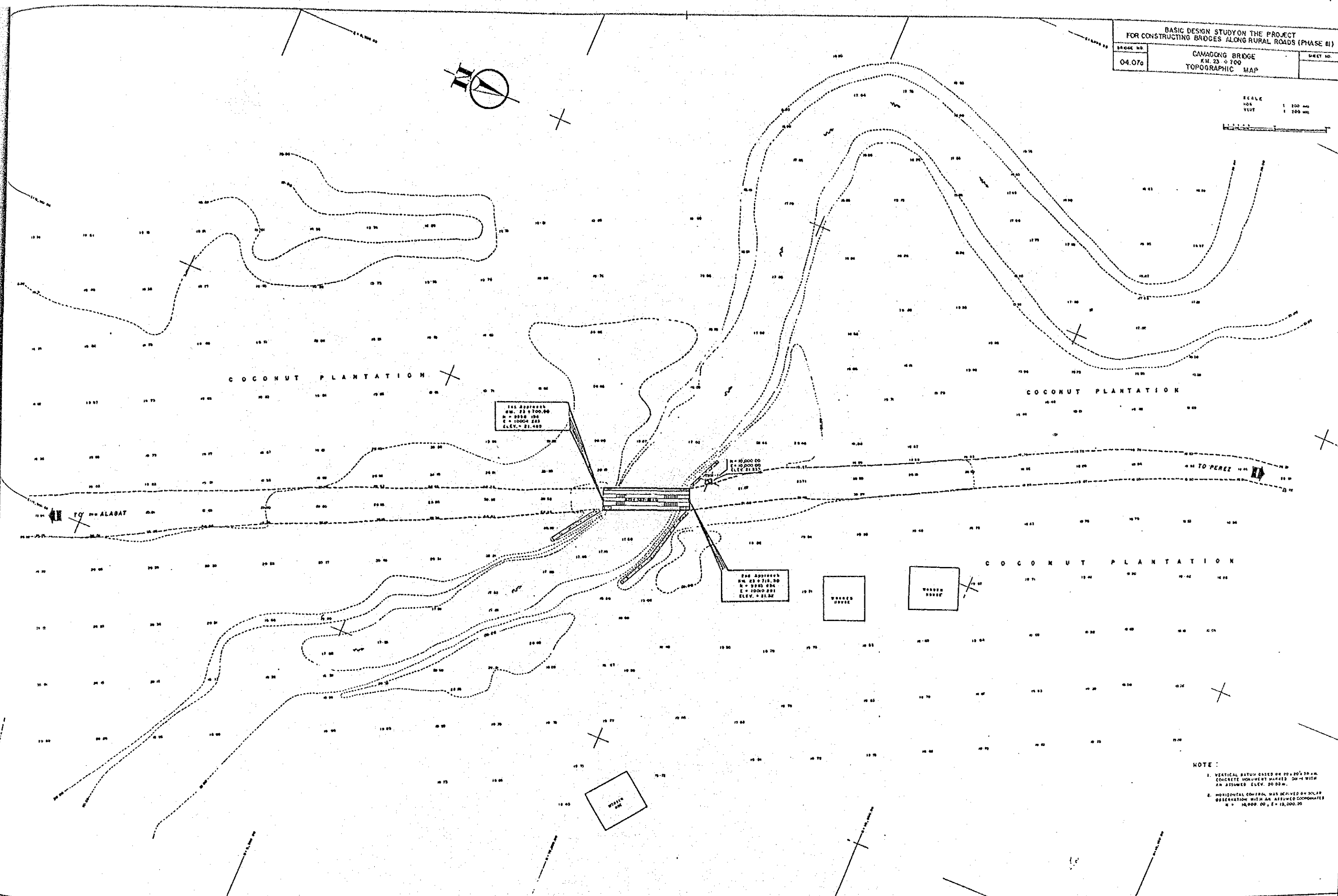


BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE II)

BRIDGE NO.	SULA BRIDGE NO.1 STA 150+000	SHEET NO.
03.17	TOPOGRAPHIC MAP	



SCALE
1:100 HORIZ.
1:100 VERT.



145 Approach
S.M. 23 + 700.00
N = 355.154
E = 10004.243
ELEV. = 21.489

145 Approach
S.M. 23 + 715.00
N = 355.154
E = 10004.243
ELEV. = 21.515

228 Approach
S.M. 23 + 715.00
N = 355.154
E = 10004.243
ELEV. = 21.522

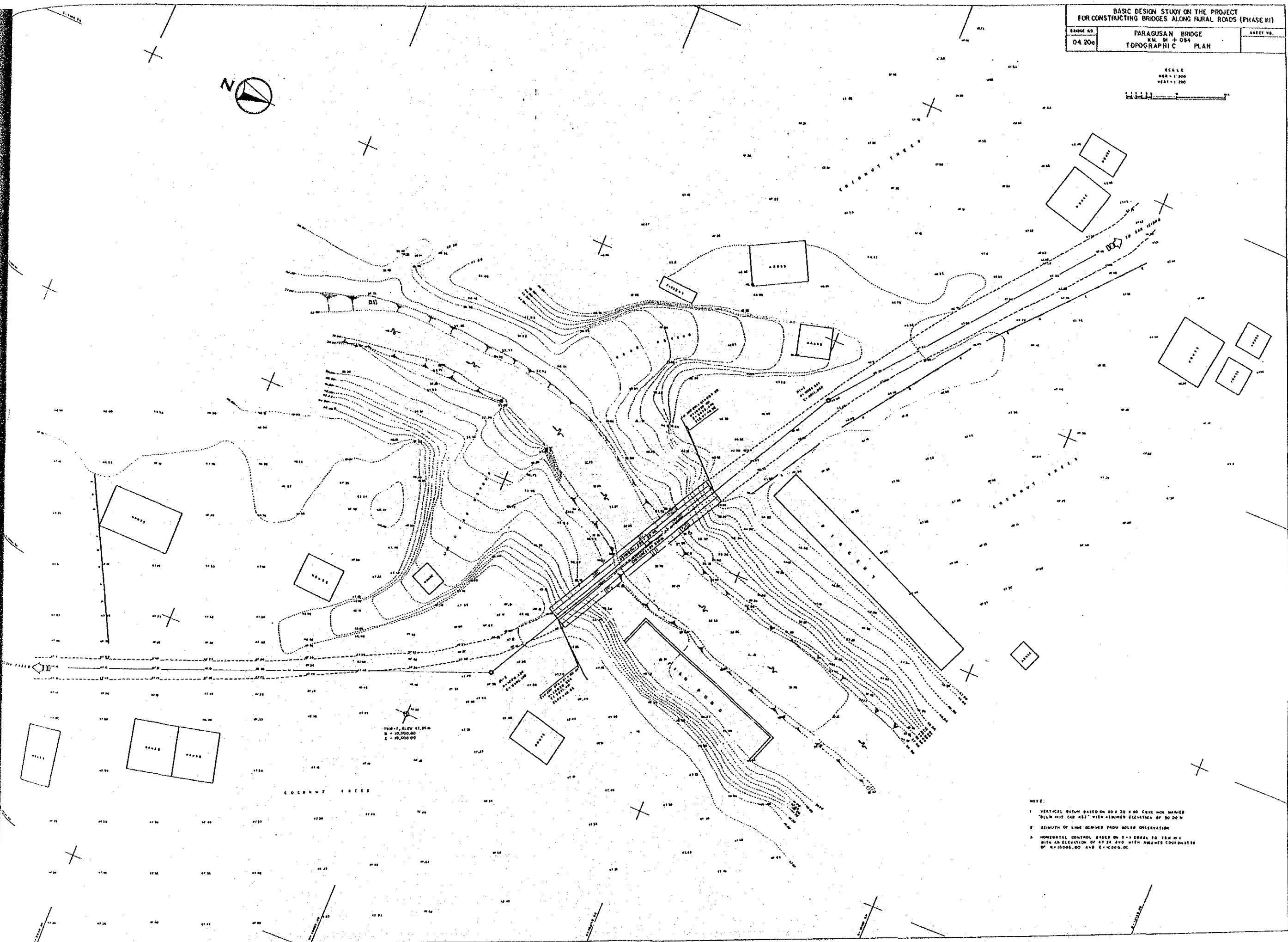
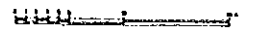
WATER BRIDGE

WATER BRIDGE

WATER BRIDGE

NOTE:
1. VERTICAL DATUM BASED ON 1984 U.S.M.S. CONCRETE MONUMENT MARKED ON-4 WITH AN ASSUMED ELEV. 30.53 M.
2. HORIZONTAL CONTROL WAS DERIVED ON SOLAR OBSERVATION WITH AN ASSUMED COORDINATE N = 14009.00, E = 10,000.00

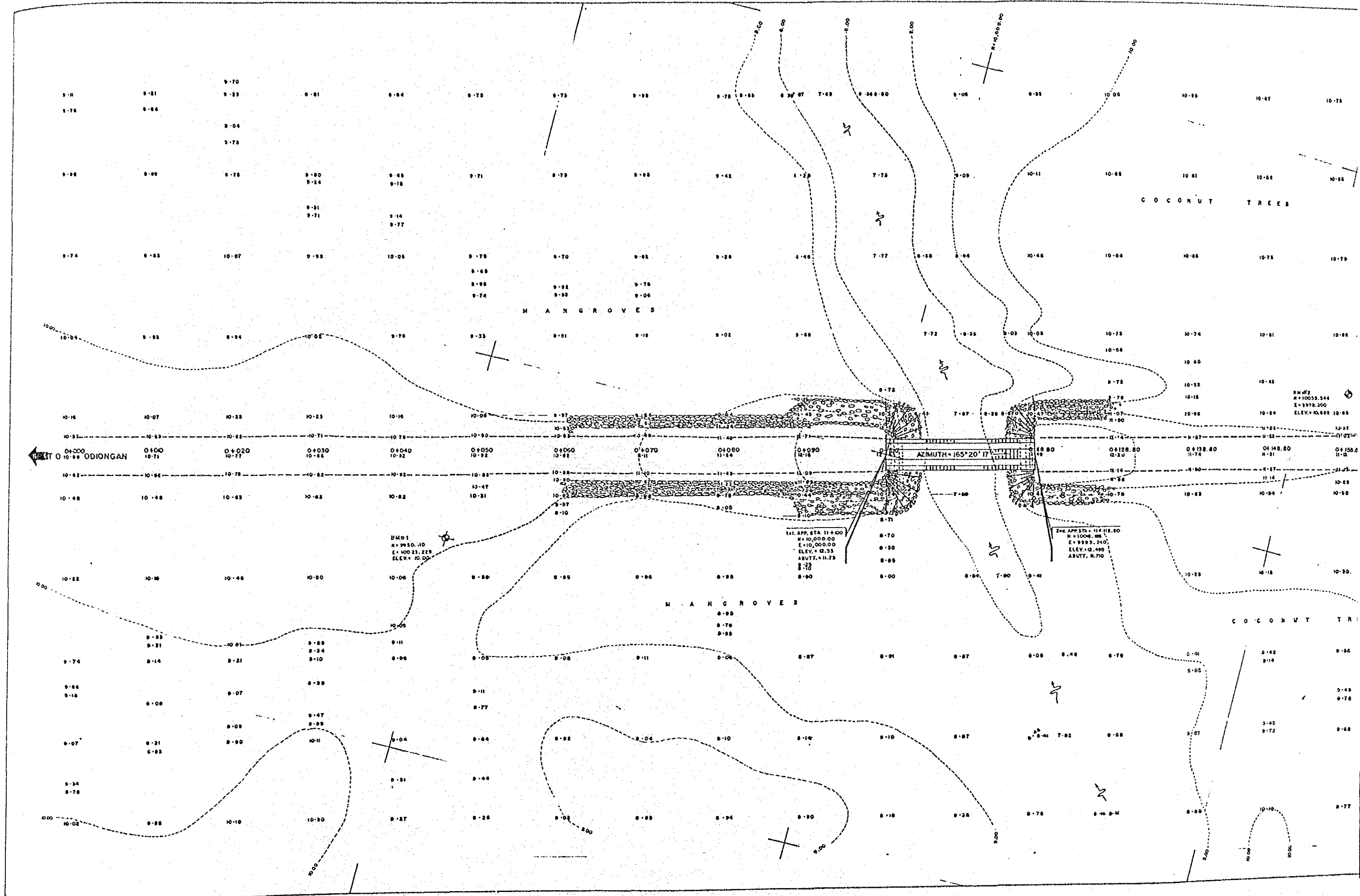
SCALE
HORIZ. 1:500
VERT. 1:200



TRM-1, ELEV. 41.24m
N = 10,000.00
E = 10,000.00

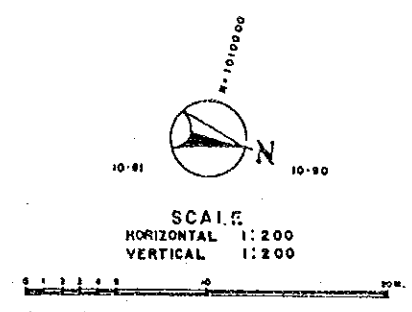
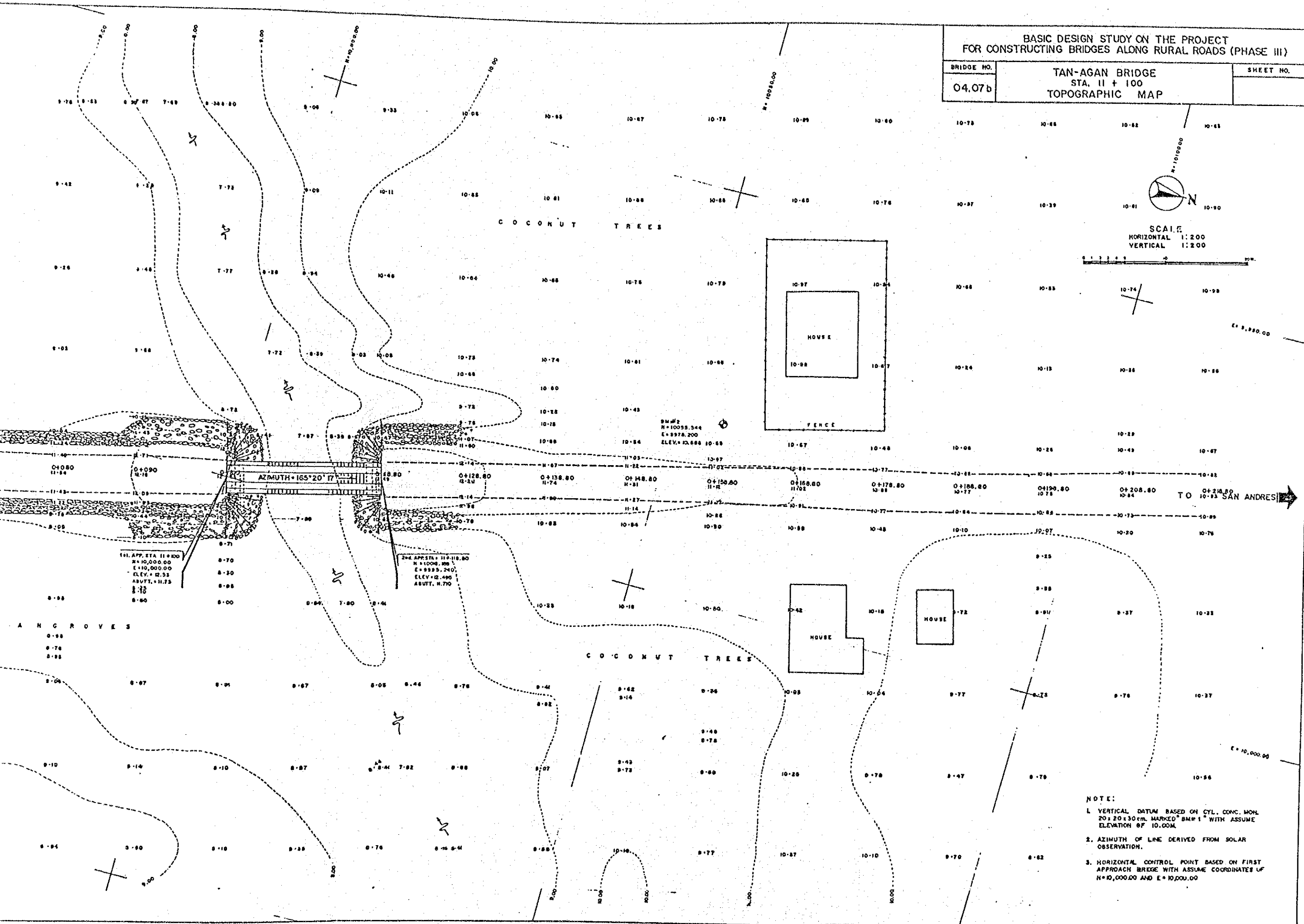
COCONUT TREES

- NOTE:
1. VERTICAL DATUM BASED ON 10 M 30 800 GIVE HIGH WATER "ILLUMINE CAB 452" WITH ASSUMED ELEVATION OF 30.00 M
 2. AZIMUTH OF LINE DERIVED FROM SOLAR OBSERVATION
 3. HORIZONTAL CONTROL BASED ON T-1 SIGNAL TO TRM-1 WITH AN ELEVATION OF 41.24 AND WITH ASSUMED COORDINATES OF N=10000.00 AND E=10000.00



BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III)

BRIDGE NO.	TAN-AGAN BRIDGE	SHEET NO.
04.07b	STA. 11 + 100 TOPOGRAPHIC MAP	



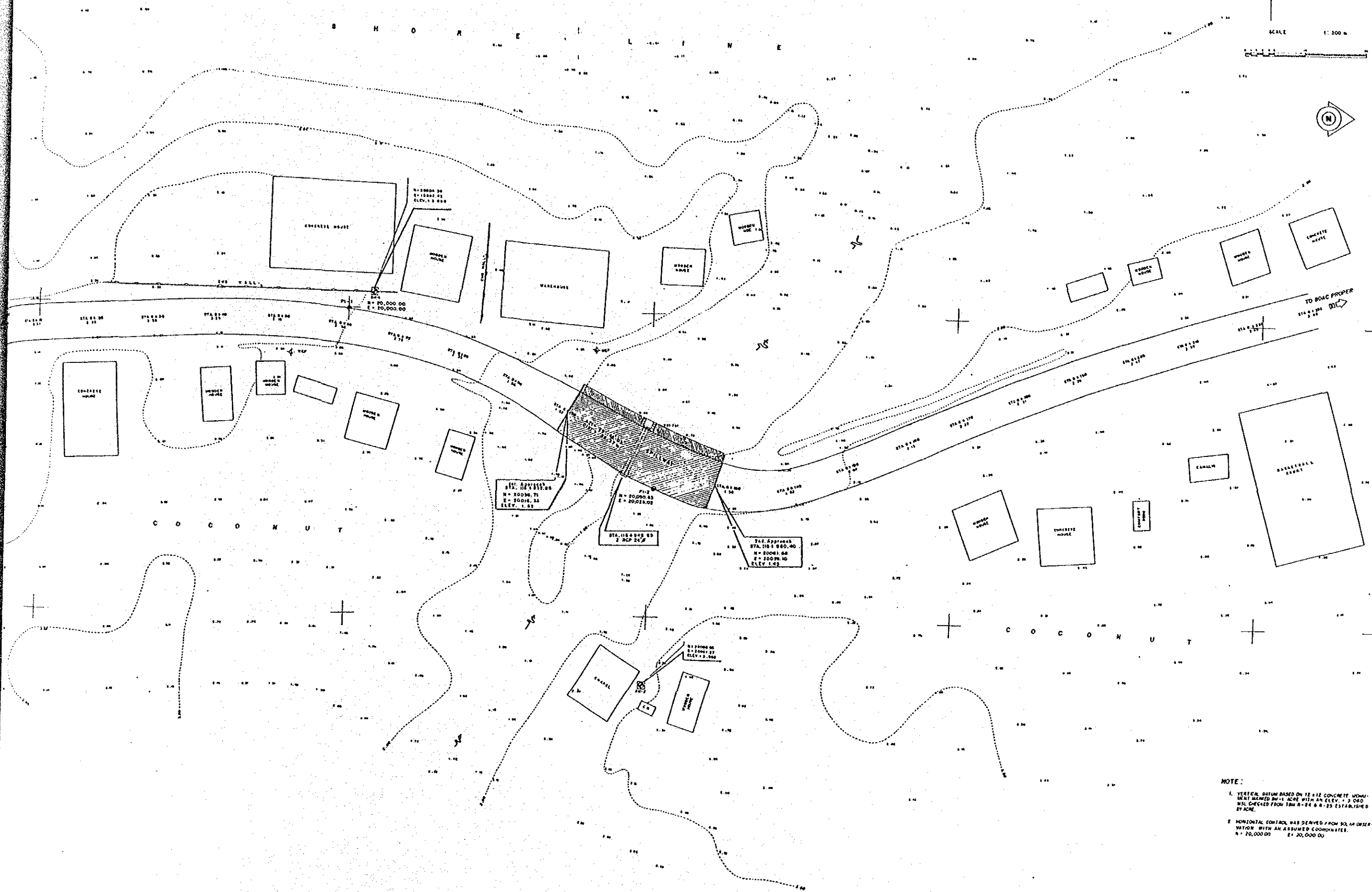
BM#2
N = 10055.544
E = 9978.200
ELEV. = 12.888 10-65

2nd APP. STA. = 11+118.80
N = 10008.808
E = 9995.240
ELEV. = 12.490
ABUTT. N. 790

1st APP. STA. 11+100
N = 10,000.00
E = 10,000.00
ELEV. = 12.53
ABUTT. N. 775

- NOTE:
1. VERTICAL DATUM BASED ON CYL. CONC. MON. 20x20x30cm. MARKED BM#1 WITH ASSUME ELEVATION OF 10.00M.
 2. AZIMUTH OF LINE DERIVED FROM SOLAR OBSERVATION.
 3. HORIZONTAL CONTROL POINT BASED ON FIRST APPROACH BRIDGE WITH ASSUME COORDINATES OF N=10,000.00 AND E=10,000.00

SCALE 1" = 100 M



NOTE:
1. VERTICAL DATUM BASED ON 12 x 12 CONCRETE WOUND
MAY BEHOLD BY 1 ACRE WITH AN ELEV. + 3.000
MSE CHECKED FROM TBM R-84 & R-85 ESTABLISHED
BY A.C.E.
2. HORIZONTAL CONTROL WAS DERIVED FROM SOLAR OBSER-
VATION WITH AN ASSUMED COORDINATES.
N = 10,000.00 E = 20,000.00

