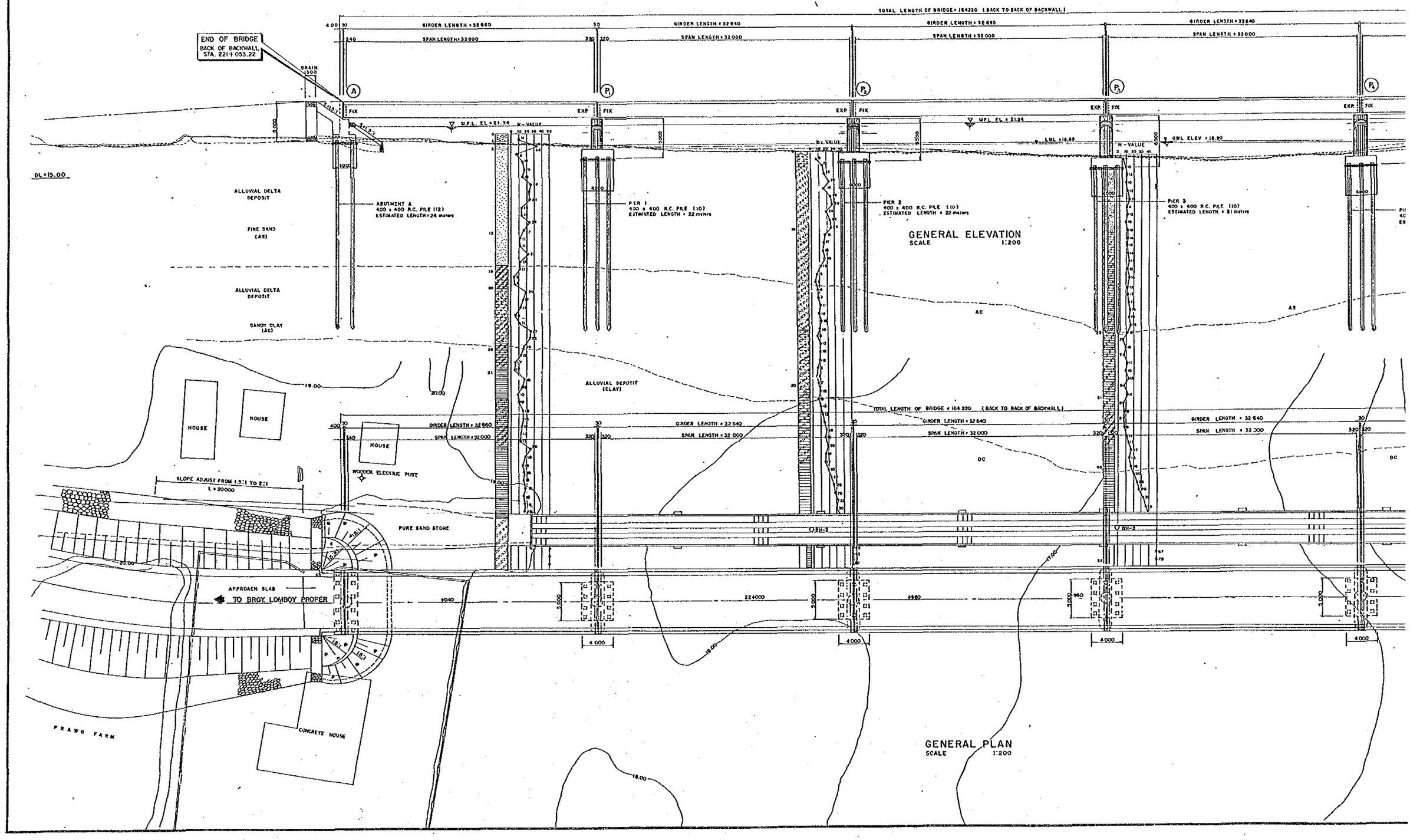
BASIC DESIGN OF BRIDGES FOR GROUP 2

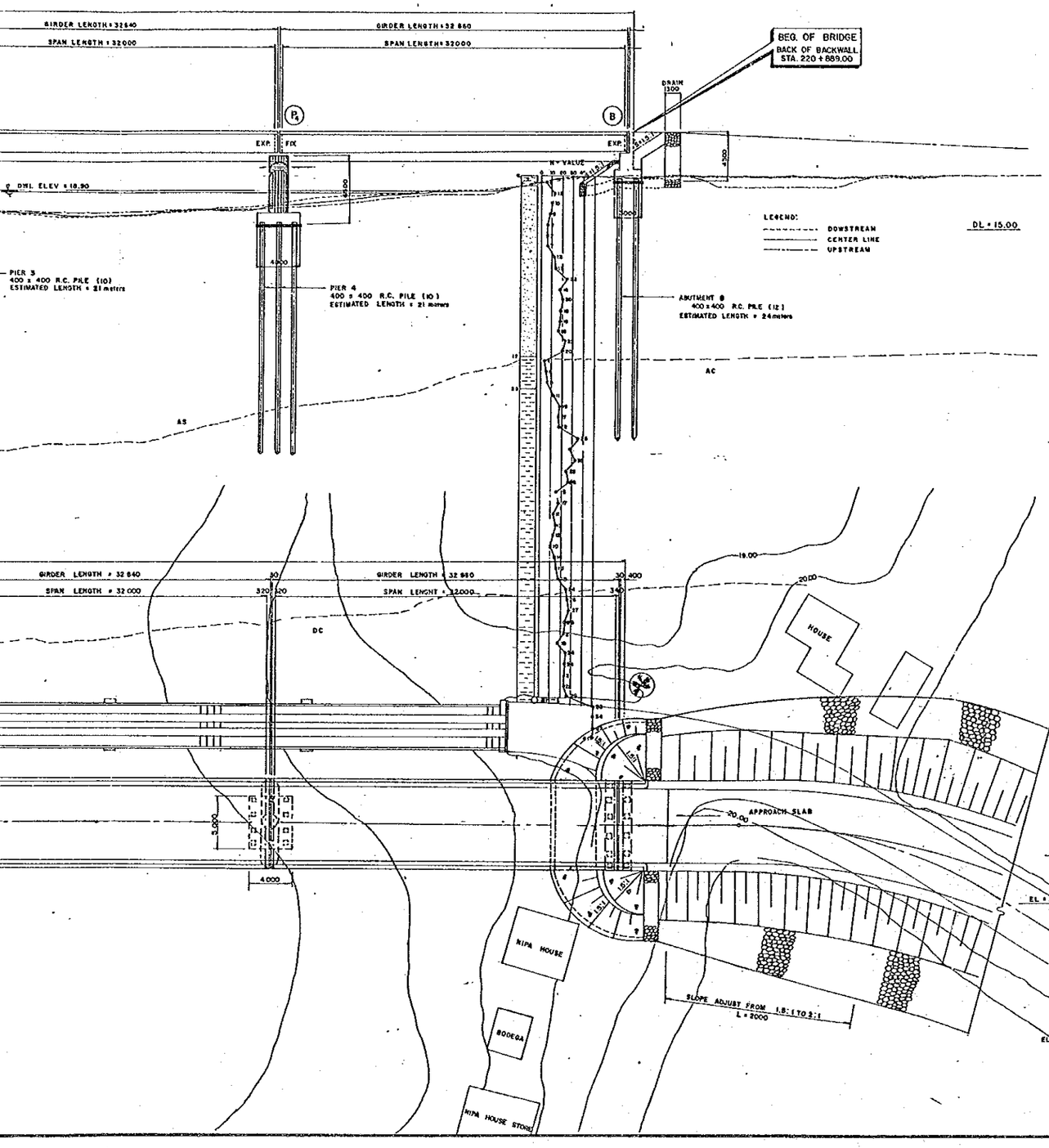
GENERAL VIEW OF BRIDGES FOR GROUP 2

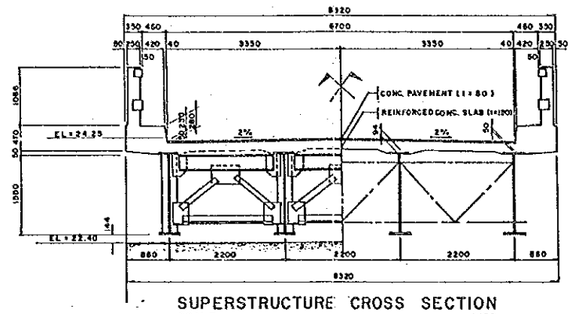
PLAN AND PROFILE OF BRIDGES FOR GROUP 2


END OF BRIDGE
BACK OF BACKWALL
STA. 221+053.22
TOTAL LENGTH OF BRIDGE = 164220 (BACK TO BACK OF BACKWALL)
GIRDER LENGTH = 32640
SPAN LENGTH = 32000
FIX
EXP
M.F.L. EL = 21.34
N-VALUE
DRAIN
DL = 15.00
ALLUVIAL DELTA DEPOSIT
FINE SAND (AS)
SANDY CLAY (AC)
ALLUVIAL DEPOSIT (CLAY)
ABUTMENT A
400 x 400 R.C. PILE (12)
ESTIMATED LENGTH = 24 meters
PIER 1
400 x 400 R.C. PILE (10)
ESTIMATED LENGTH = 22 meters
PIER 2
400 x 400 R.C. PILE (10)
ESTIMATED LENGTH = 22 meters
PIER 3
400 x 400 R.C. PILE (10)
ESTIMATED LENGTH = 21 meters
GENERAL ELEVATION
SCALE 1:200
HOUSE
WOODEN ELECTRIC POST
SLOPE ADJUST FROM 1.5:1 TO 2:1
L = 20000
PURE SAND STONE
APPROACH SLAB
TO BRGY. LOMBOY PROPER
PRAWN FARM
CONCRETE HOUSE
BH-3
BH-2
AC
AS
DC
GENERAL PLAN
SCALE 1:200

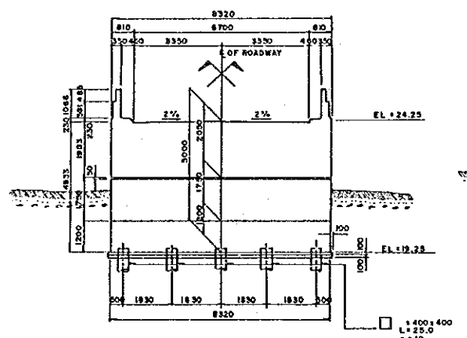
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.		SHEET NO.
01.02	MAPHILINDO BRIDGE Km.220+900	33/56

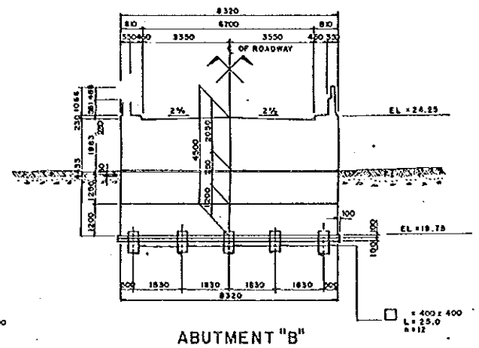




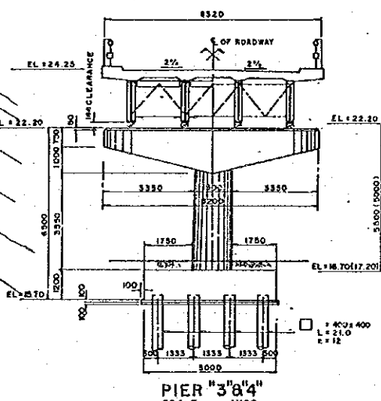
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



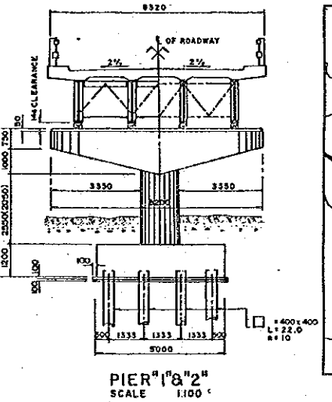
ABUTMENT "A"
SCALE 1:100



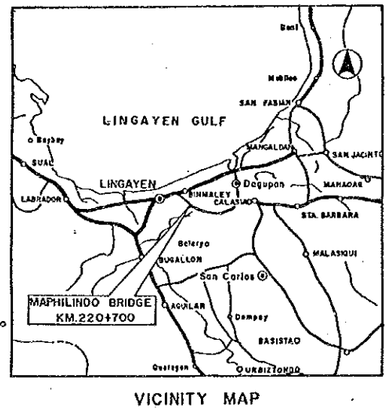
ABUTMENT "B"
SCALE 1:100



PIER "3" & "4"
SCALE 1:100



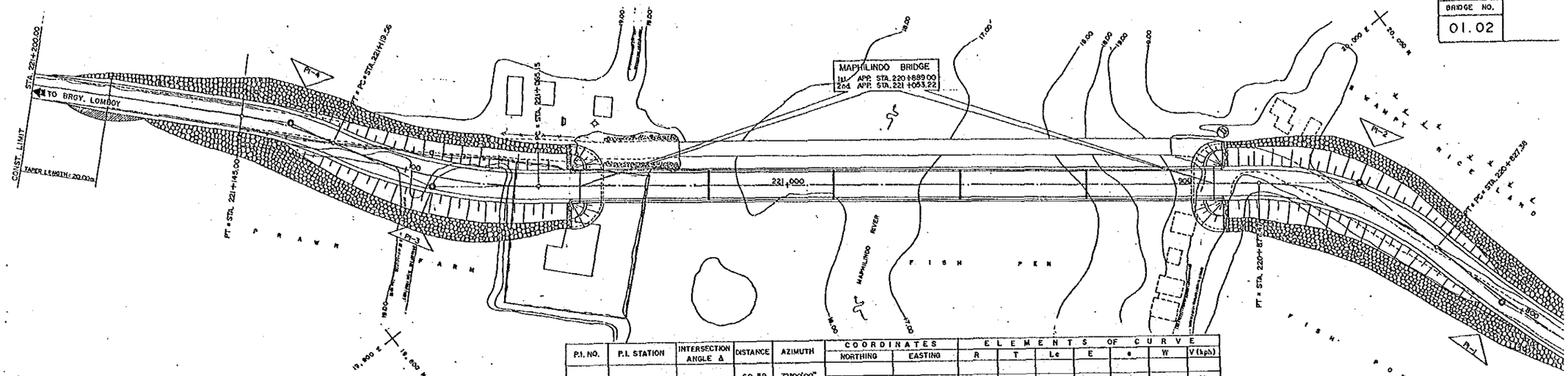
PIER "1" & "2"
SCALE 1:100



VICINITY MAP

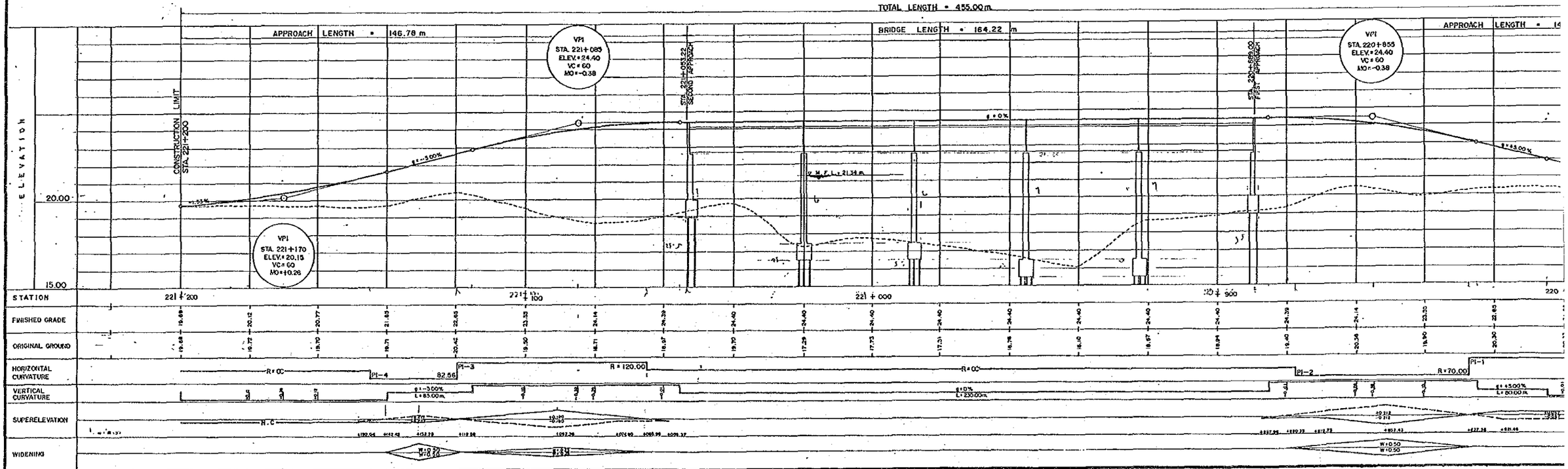
THE BASI
FOR CONSTRUCTING

BRIDGE NO.
01.02



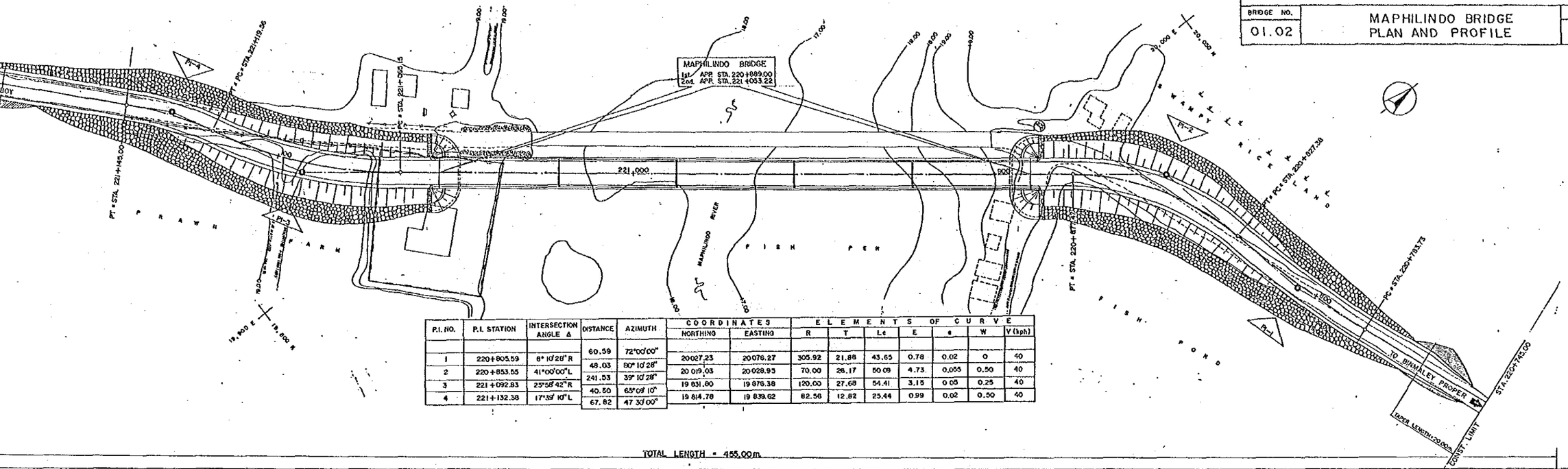
P.I. NO.	P.I. STATION	INTERSECTION ANGLE Δ	DISTANCE	AZIMUTH
			60.59	72°00'00"
1	220+805.89	8° 10'28" R	48.03	80° 10'28"
2	220+853.55	41°00'00"L	241.53	39° 10'28"
3	221+092.83	25°58'42"R	40.50	65°09' 10"
4	221+132.38	17°39' 10"L	67.82	47 30'00"

COORDINATES		ELEMENTS OF CURVE						
NORTHING	EASTING	R	T	Lc	E	e	W	V(kph)
20027.23	20076.27	305.92	21.86	43.65	0.78	0.02	0	40
20 019.03	20 028.95	70.00	26.17	50 09	4.73	0.055	0.50	40
19 831.80	19 876.38	120.00	27.68	54.41	3.15	0 05	0.25	40
19 814.78	19 839.62	82.56	12.92	25.44	0.99	0.02	0.50	40

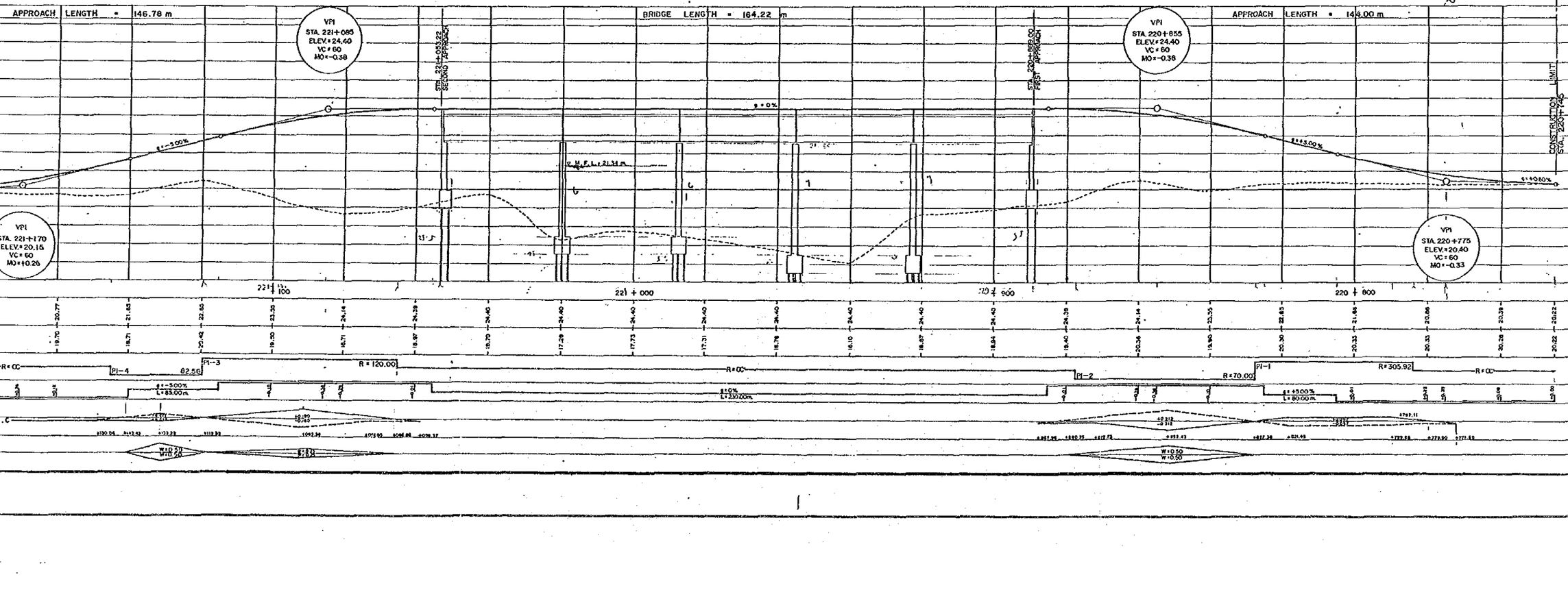


THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.	MAPHILINDO BRIDGE PLAN AND PROFILE	SHEET NO.
01.02		34/56

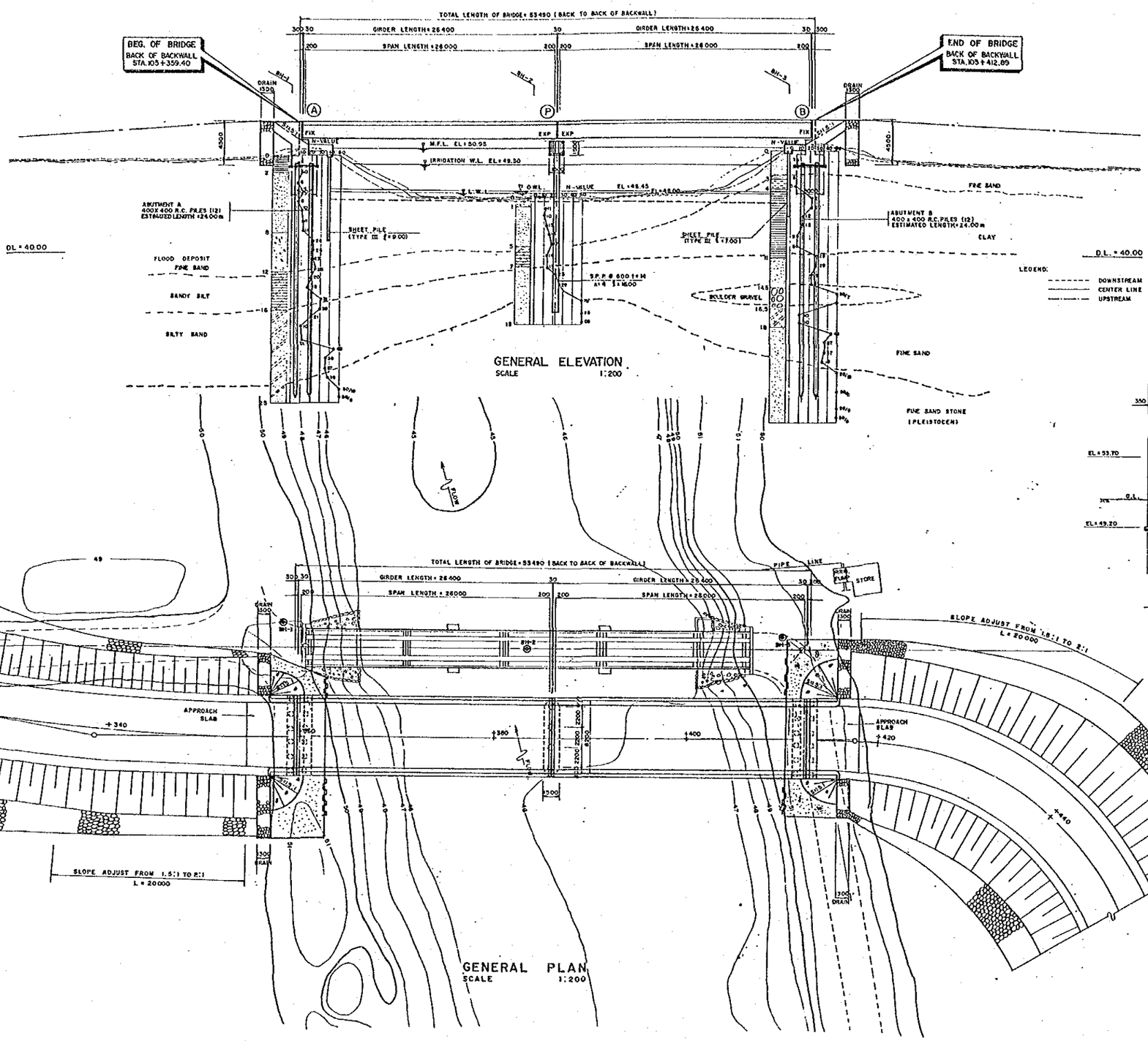


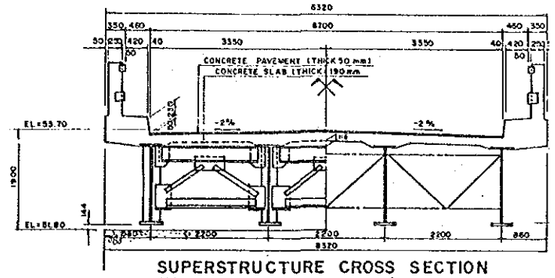
P.I. NO.	P.I. STATION	INTERSECTION ANGLE Δ	DISTANCE	AZIMUTH	COORDINATES NORTHING	COORDINATES EASTING	ELEMENTS OF CURVE R	T	Lc	E	e	W	V (kph)
			60.59	72°00'00"									
1	220+805.59	8° 10'28" R	48.03	80° 10' 28"	20027.23	20076.27	305.92	21.86	43.65	0.78	0.02	0	40
2	220+853.55	41°00'00" L	241.53	39° 10' 28"	20 019.03	20028.93	70.00	26.17	50.09	4.73	0.055	0.50	40
3	221+092.83	25°58'42" R	40.50	65°09' 10"	19 831.80	19 976.38	120.00	27.68	54.41	3.15	0.05	0.25	40
4	221+132.38	17°39' 10" L	67.82	47 30'00"	19 814.78	19 839.62	82.56	12.82	25.44	0.99	0.02	0.50	40

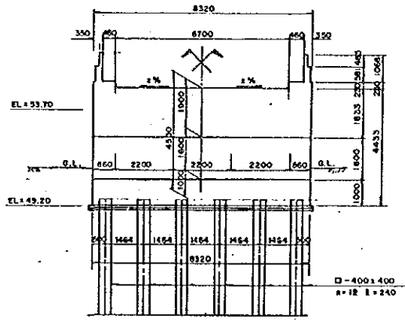


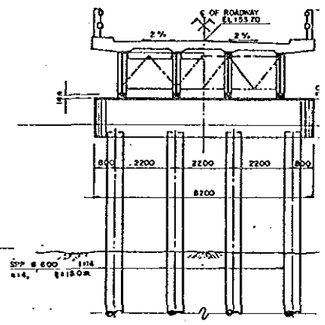
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III)

BRIDGE NO.	BACONG BRIDGE
03.03	Km. 105+360

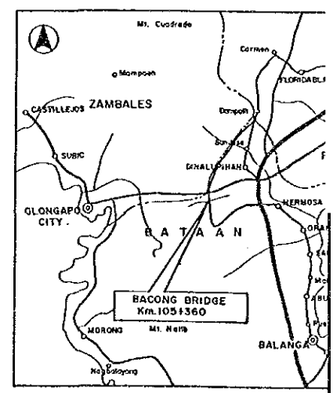






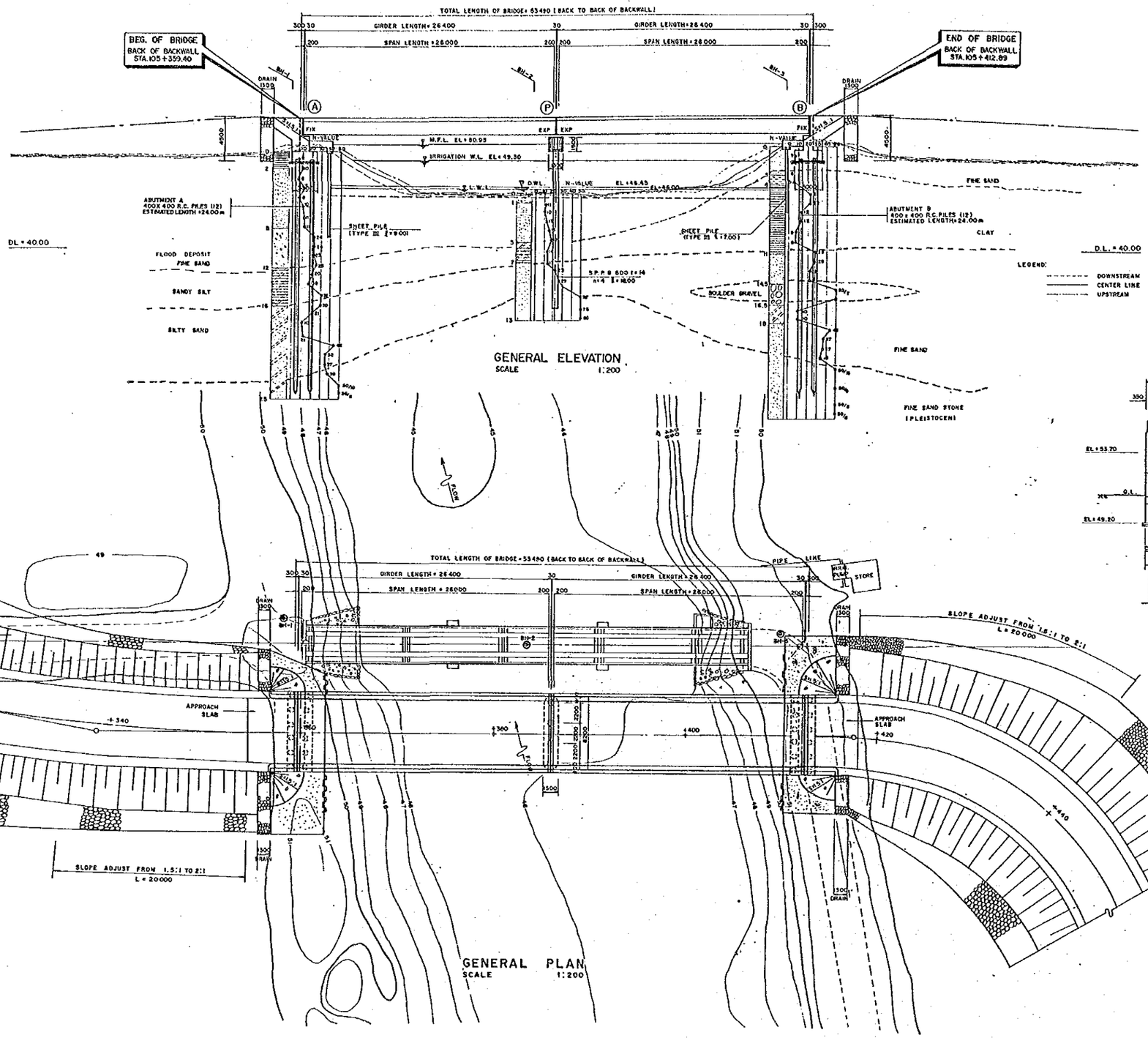


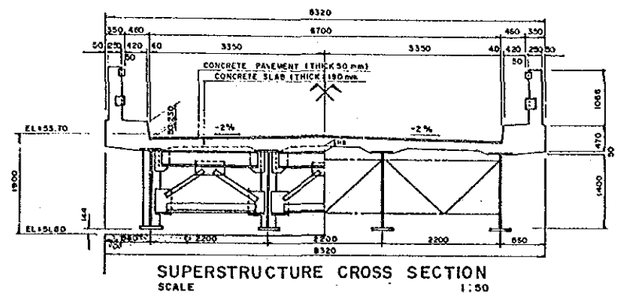
SUBSTRUCTURE CROSS SECTION
SCALE 1:100



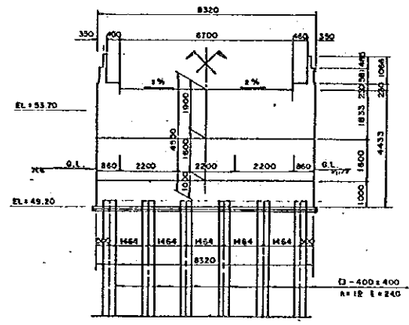
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.	BACONG BRIDGE Km. 105+360	SHEET NO.
03.03		35/56





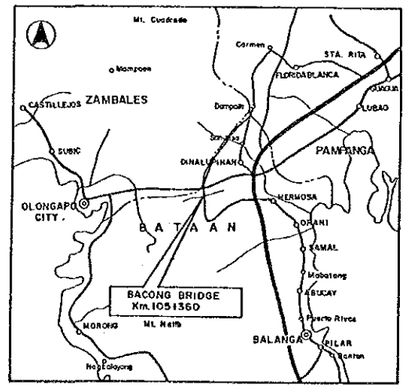
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



ABUTMENT A (B)

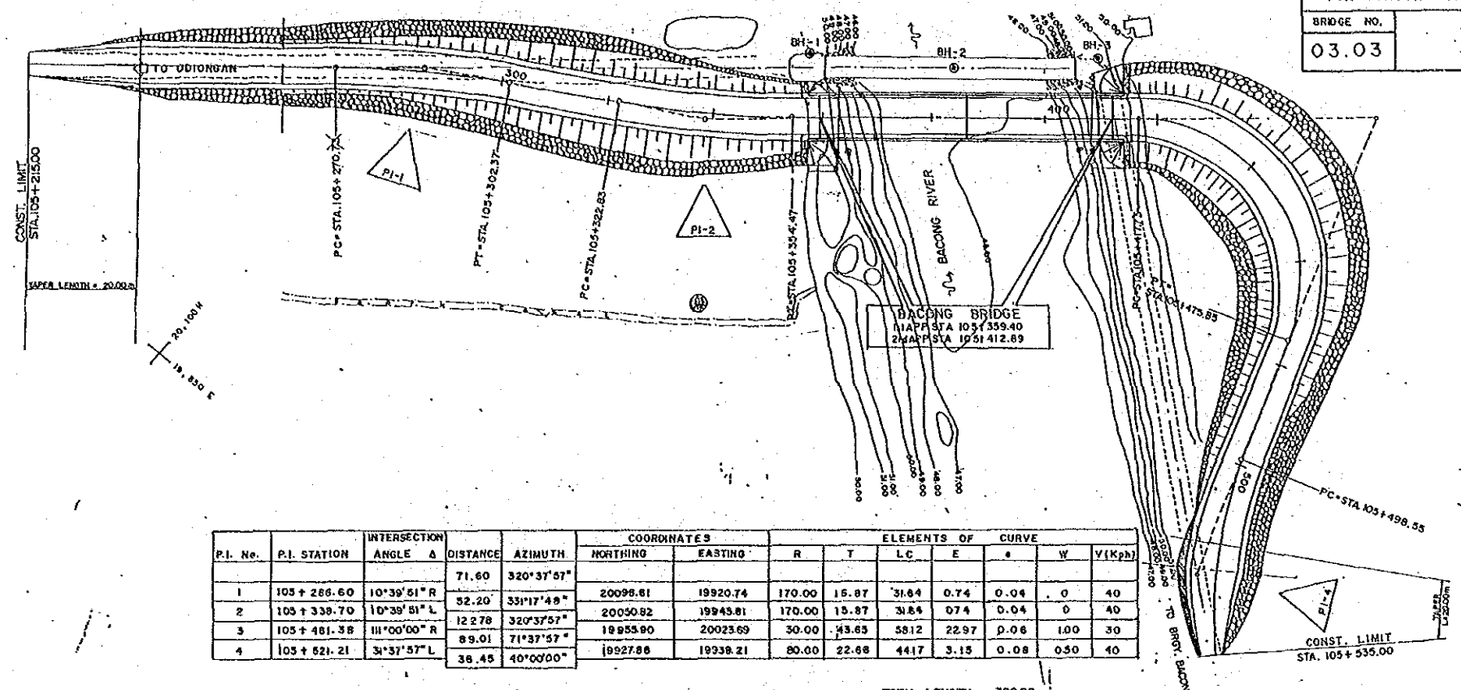
PIER

SUBSTRUCTURE CROSS SECTION
SCALE 1:100

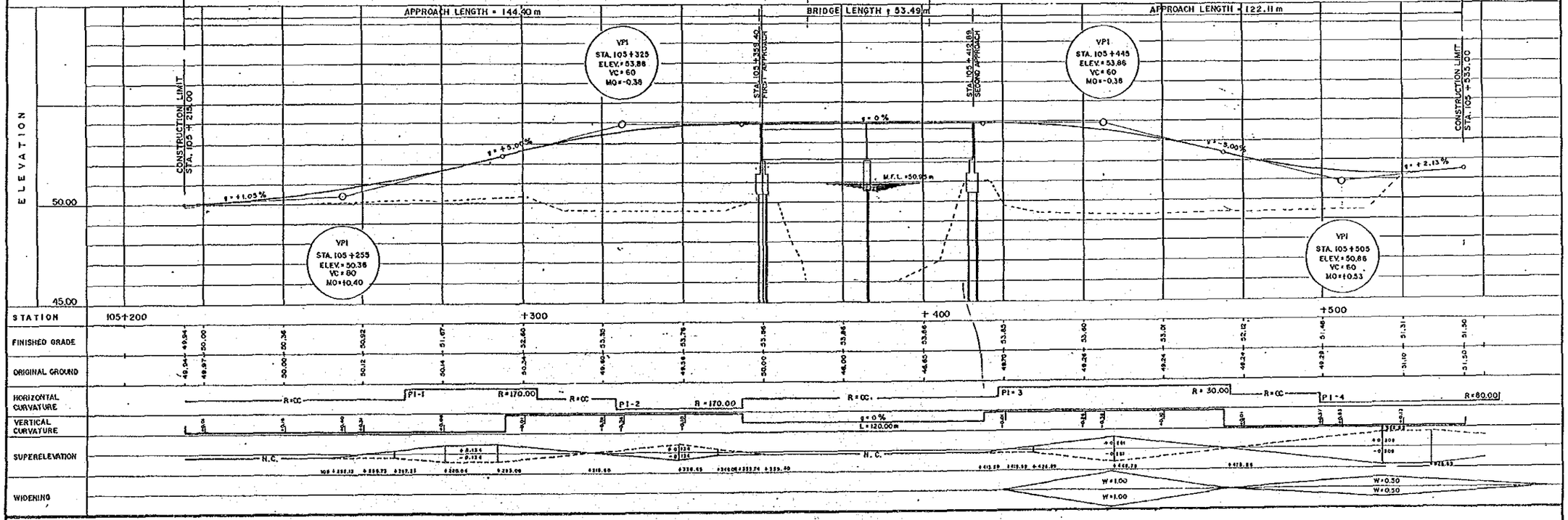


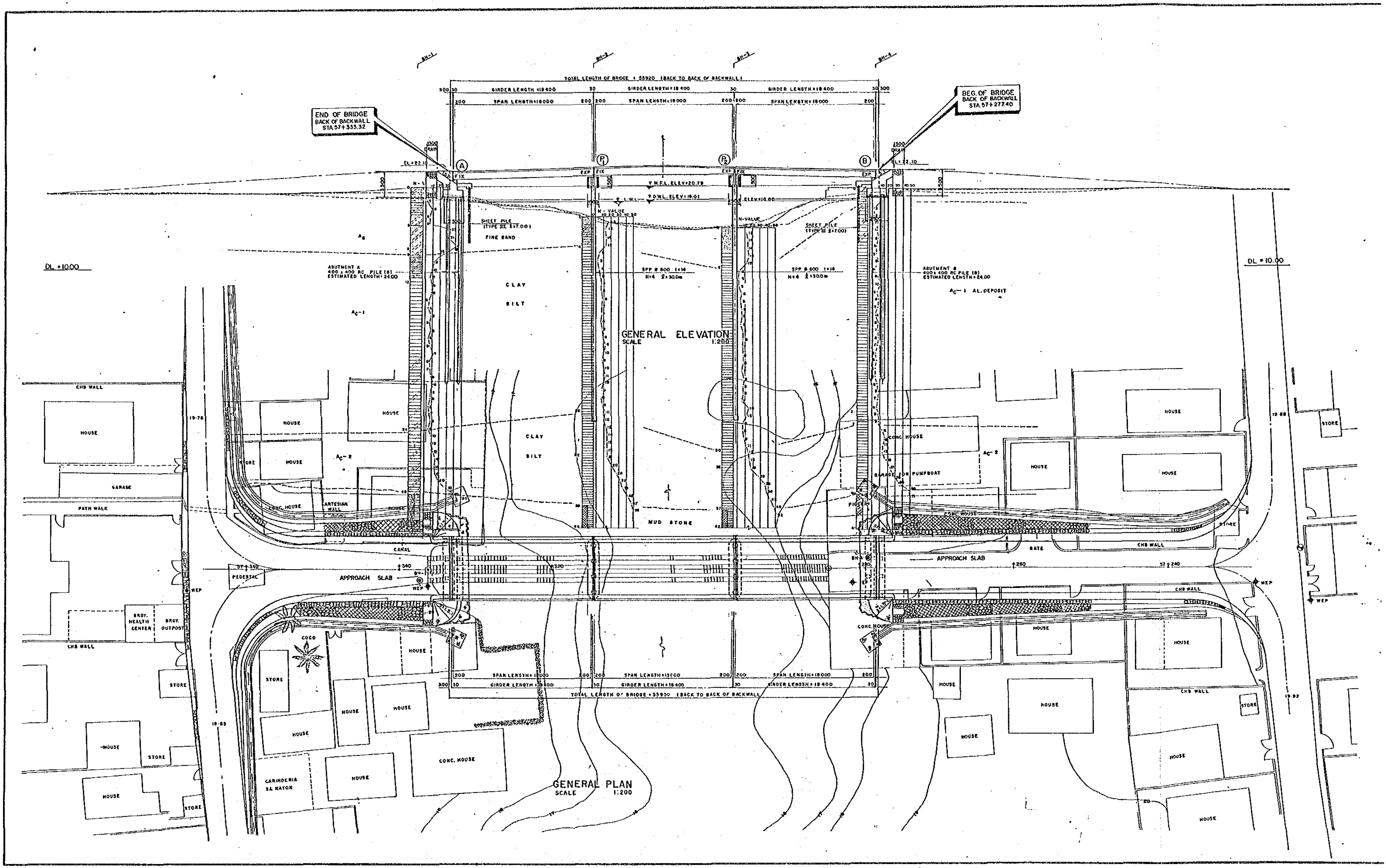
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.		SHEET NO.
03.03	BACONG BRIDGE PLAN AND PROFILE	36/56



P.I. No.	P.I. STATION	INTERSECTION ANGLE Δ	DISTANCE	AZIMUTH	COORDINATES NORTHING	COORDINATES EASTING	ELEMENTS OF CURVE R	T	LC	E	e	W	V(Kph)
			71.60	320°37'57"									
1	105+286.60	10°39'51" R	52.20	331°17'48"	20098.61	19920.74	170.00	15.87	31.64	0.74	0.04	0	40
2	105+338.70	10°39'51" L	12.278	320°37'57"	20050.82	19945.81	170.00	15.87	31.84	0.74	0.04	0	40
3	105+481.38	111°00'00" R	89.01	71°37'57"	19955.90	20023.69	30.00	43.65	58.12	22.97	0.06	1.00	30
4	105+521.21	31°37'57" L	38.45	40°00'00"	19927.86	19938.21	80.00	22.68	44.17	3.15	0.08	0.50	40

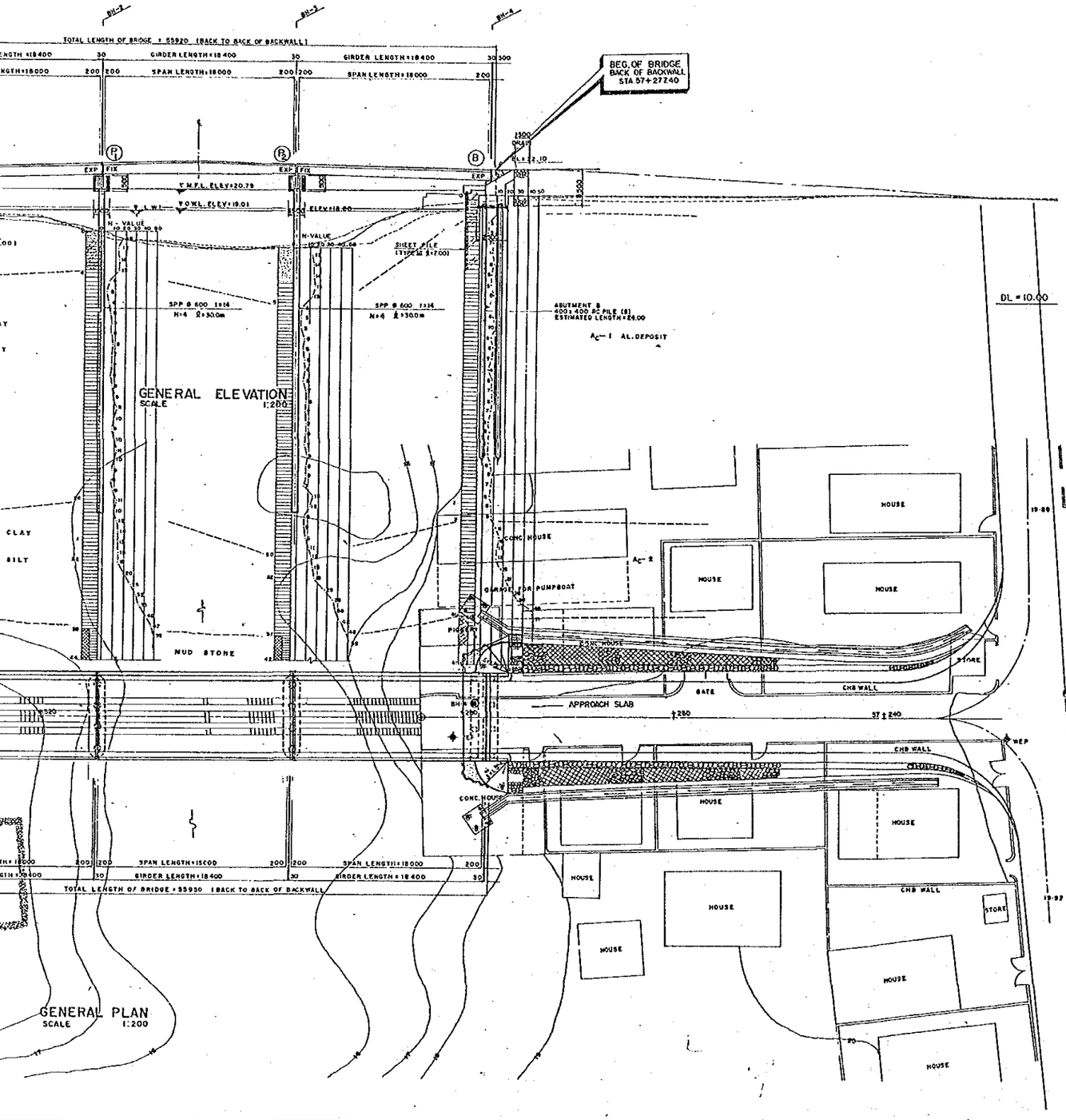


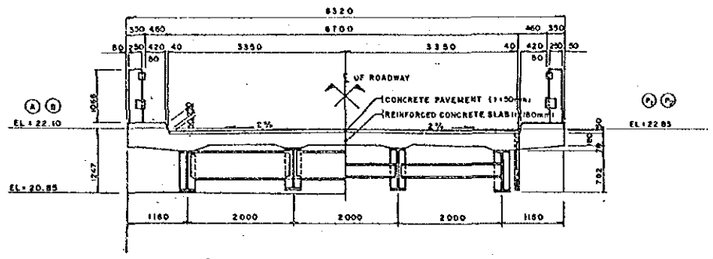


BH-1
BH-2
BH-3
BH-4
TOTAL LENGTH OF BRIDGE = 55920 (BACK TO BACK OF BACKWALL)
GIRDER LENGTH = 18400
SPAN LENGTH = 18000
END OF BRIDGE
BACK OF BACKWALL
STA.57+333.32
BEG. OF BRIDGE
BACK OF BACKWALL
STA.57+277.40
EL = 22.10
FIX
EXP
V.H.F.L. ELEV = 20.79
O.W.L. ELEV = 19.01
L.W.L.
N-VALUE
SHEET PILE
(TYPE III ℓ=7.00)
FINE SAND
ABUTMENT A
400 x 400 RC PILE (8)
ESTIMATED LENGTH = 24.00
ABUTMENT B
400 x 400 RC PILE (8)
ESTIMATED LENGTH = 24.00
SPP φ 600 t=14
N=4 ℓ=30.0m
CLAY
SILT
MUD STONE
DL = 10.00
Ac-1 AL. DEPOSIT
Ac-2
GENERAL ELEVATION
SCALE 1:200
HOUSE
STORE
CONC. HOUSE
CHB WALL
GARAGE
PATH WALK
CARTESIAN WALL
GARAGE FOR PUMPBOAT
CANAL
GATE
APPROACH SLAB
PEDESTAL
WEP
BRGY. HEALTH CENTER
BRGY. OUTPOST
COCO
CARINDERIA SA KAYON
57+340
57+240
GENERAL PLAN
SCALE 1:200
TOTAL LENGTH OF BRIDGE = 55950 (BACK TO BACK OF BACKWALL)

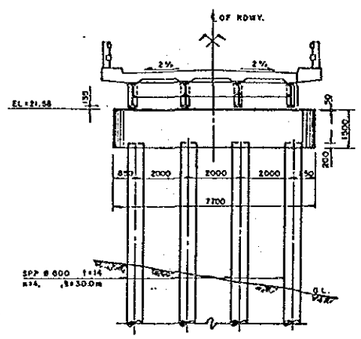
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE II, GROUP 2)

BRIDGE NO.		SHEET NO.
03.07	SAN ROQUE BRIDGE Km. 57 + 284	37/56

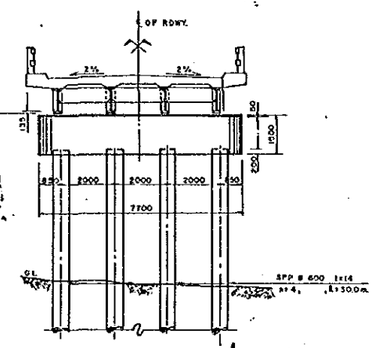




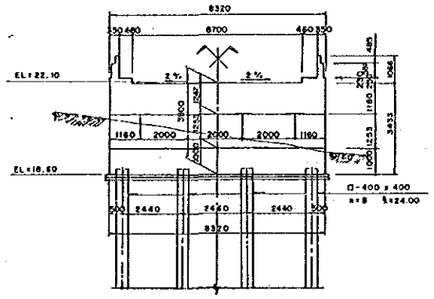
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



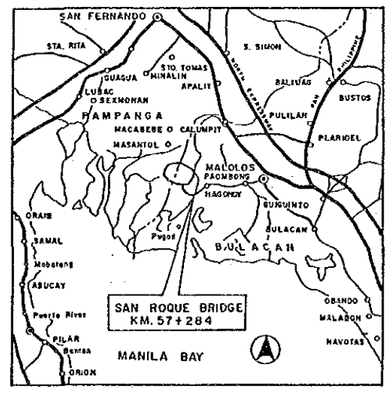
PIER (P2)
SCALE 1:100



PIER (P1)
SCALE 1:100



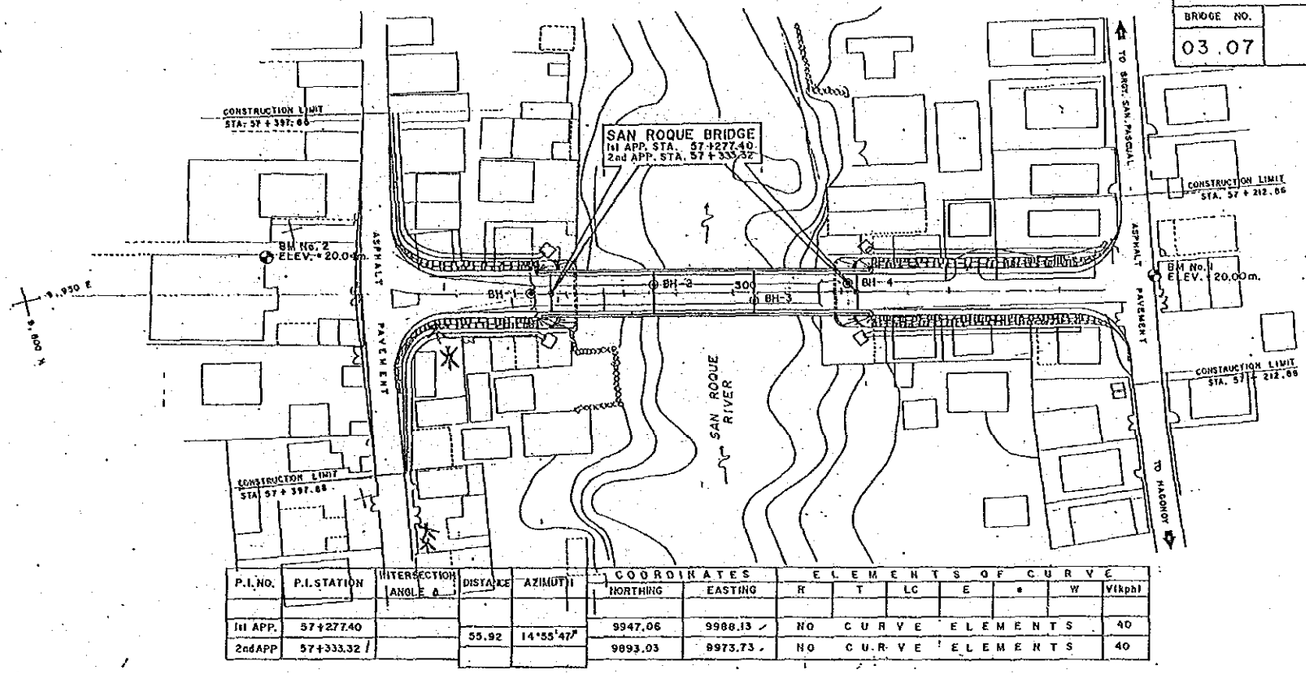
ABUTMENT A (B)
SCALE 1:100M



VICINITY MAP

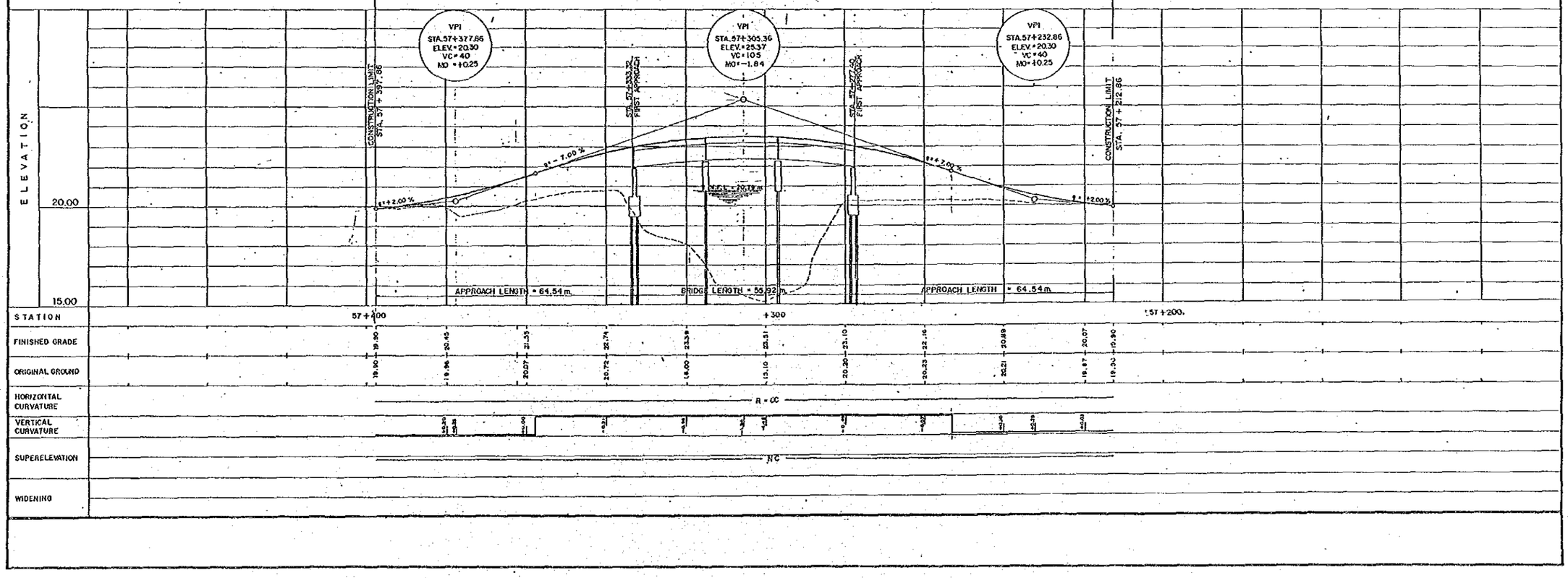
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.		SHEET NO.
03.07	SAN ROQUE BRIDGE PLAN AND PROFILE	38/56



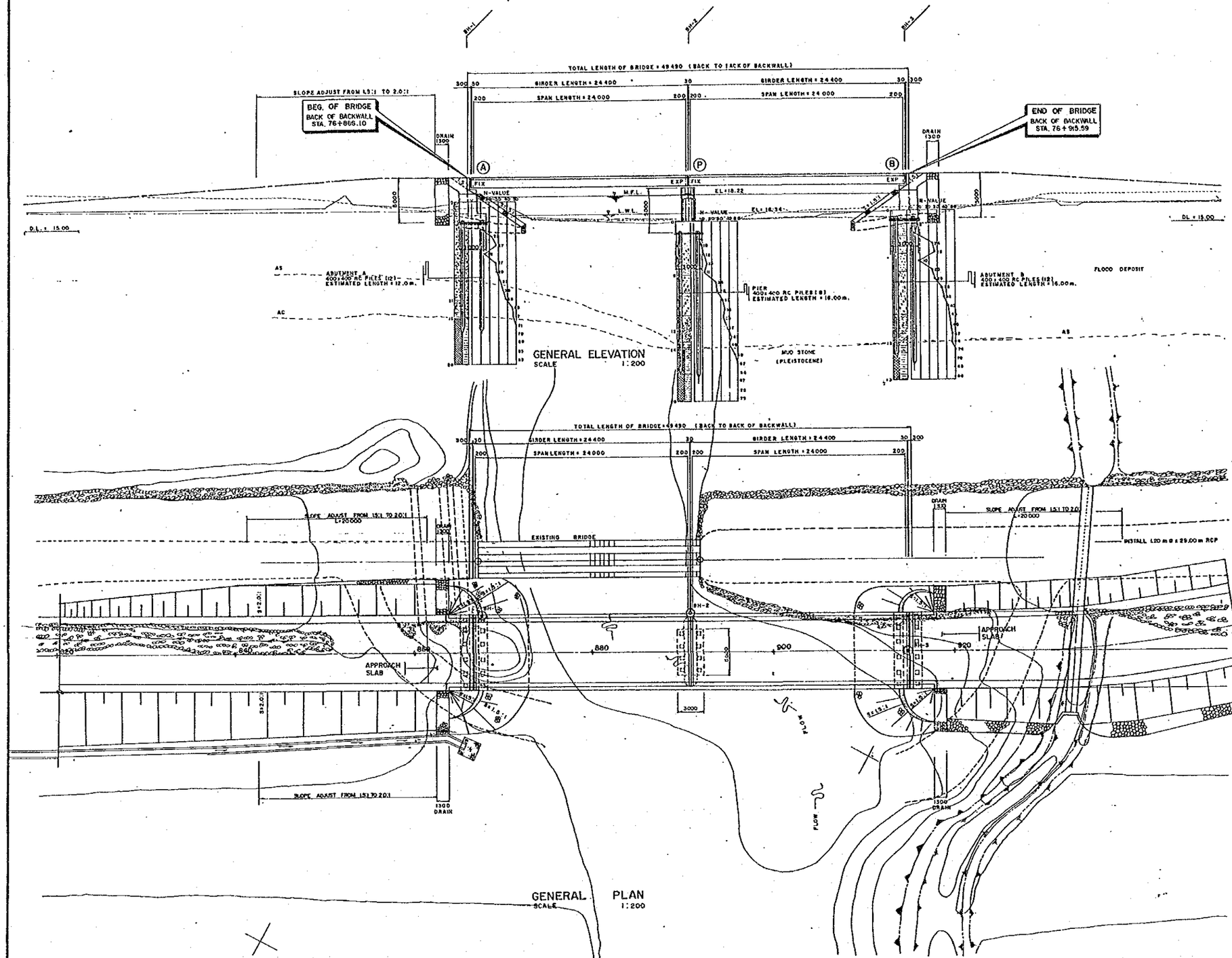
P.I. NO.	P.I. STATION	INTERSECTION ANGLE Δ	DISTANCE	AZIMUTH	COORDINATES NORTHING	COORDINATES EASTING	ELEMENTS OF CURVE R	T	LC	E	s	W	V(kph)
1st APP.	57+277.40		55.92	14°55'47"	9947.06	9988.13	NO CURVE ELEMENTS						40
2nd APP	57+333.32				9893.03	9973.73	NO CURVE ELEMENTS						40

TOTAL LENGTH = 185.00m



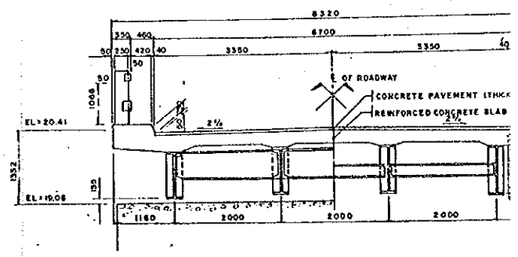
THE BASIC DESIGN STUDY ON TH
FOR CONSTRUCTING BRIDGES ALONG RURAL RO.

BRIDGE NO.	DOLORES BRIDGE
03.10	KM.76+870

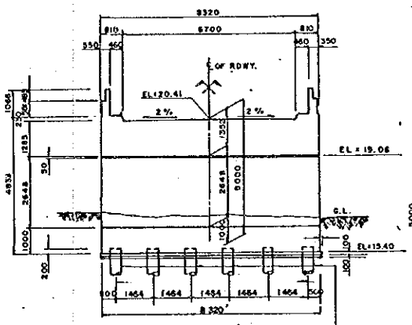


GENERAL ELEVATION
SCALE 1:200

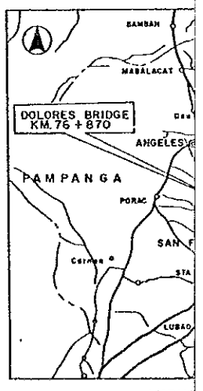
GENERAL PLAN
SCALE 1:200



SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



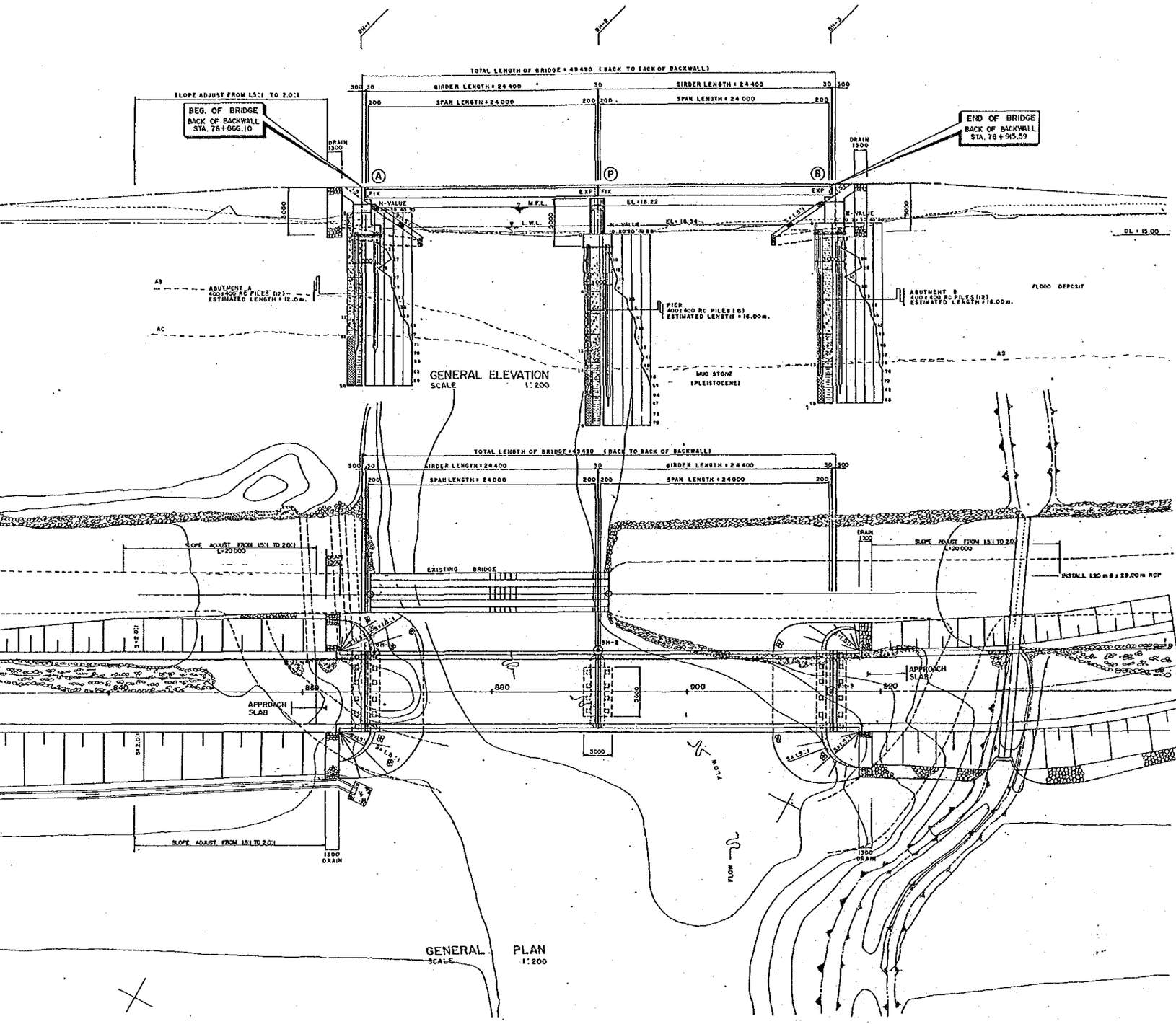
ABUTMENT A (B)
SCALE 1:100



VICIN

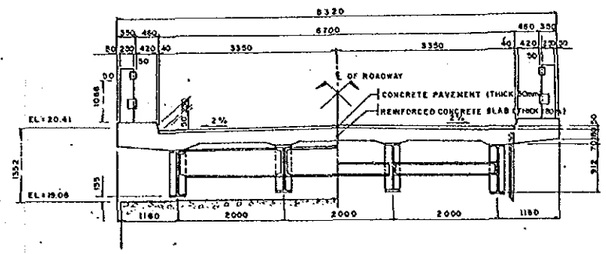
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.		SHEET NO.
03.10	DOLORES BRIDGE KM.76+870	39/56

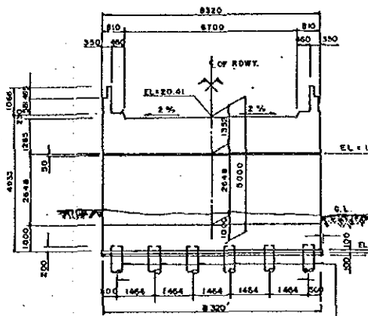


GENERAL ELEVATION
SCALE 1:200

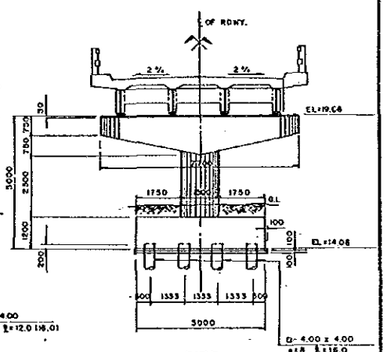
GENERAL PLAN
SCALE 1:200



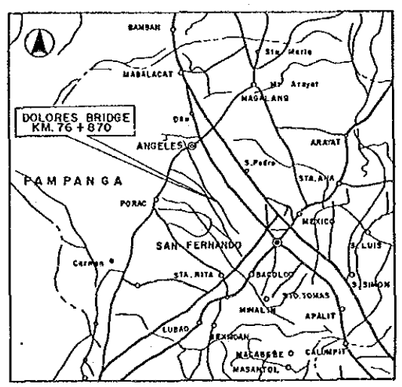
SUPERSTRUCTURE CROSS SECTION
SCALE: 1:50



ABUTMENT A (B)
SCALE 1:100



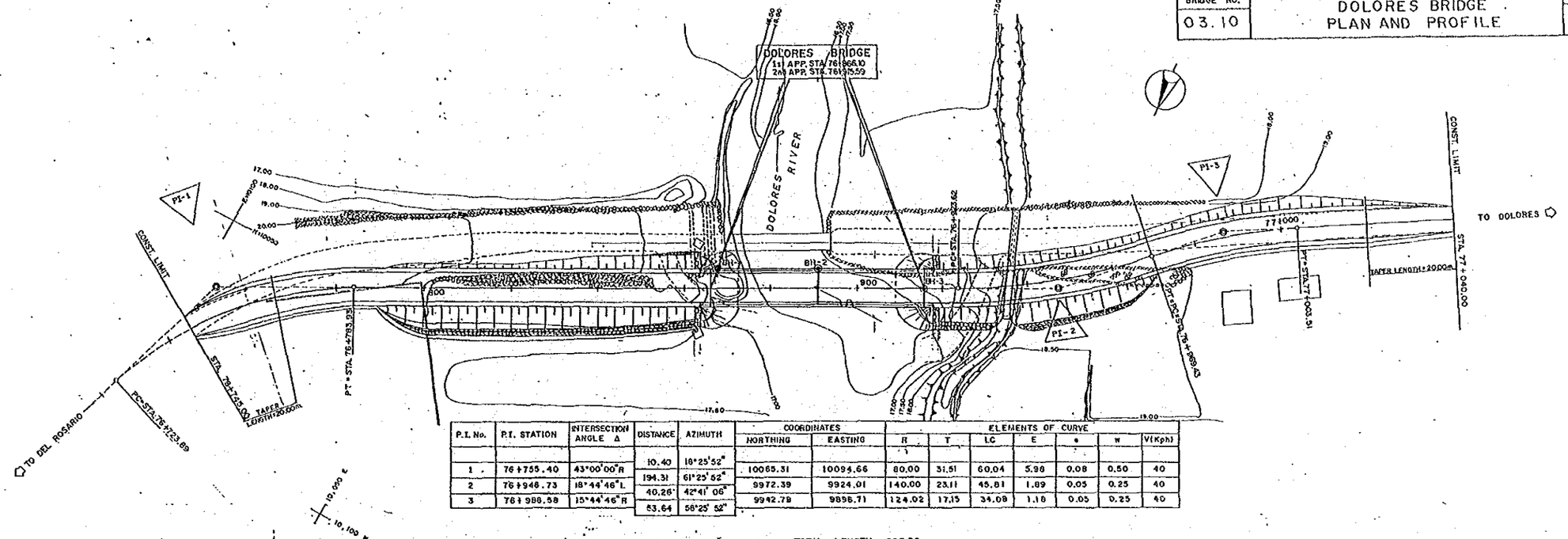
PIER
SCALE 1:100



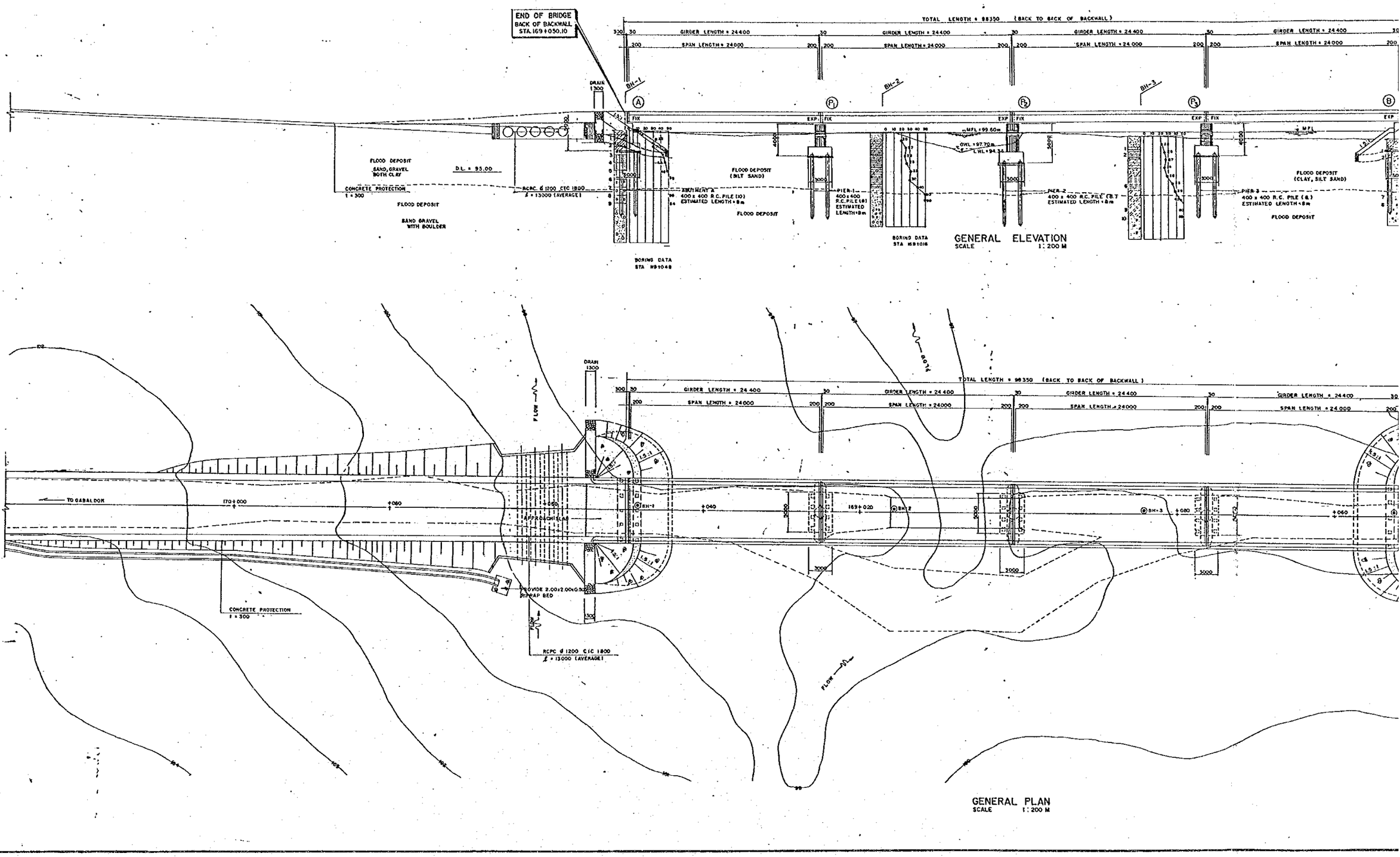
VICINITY MAP

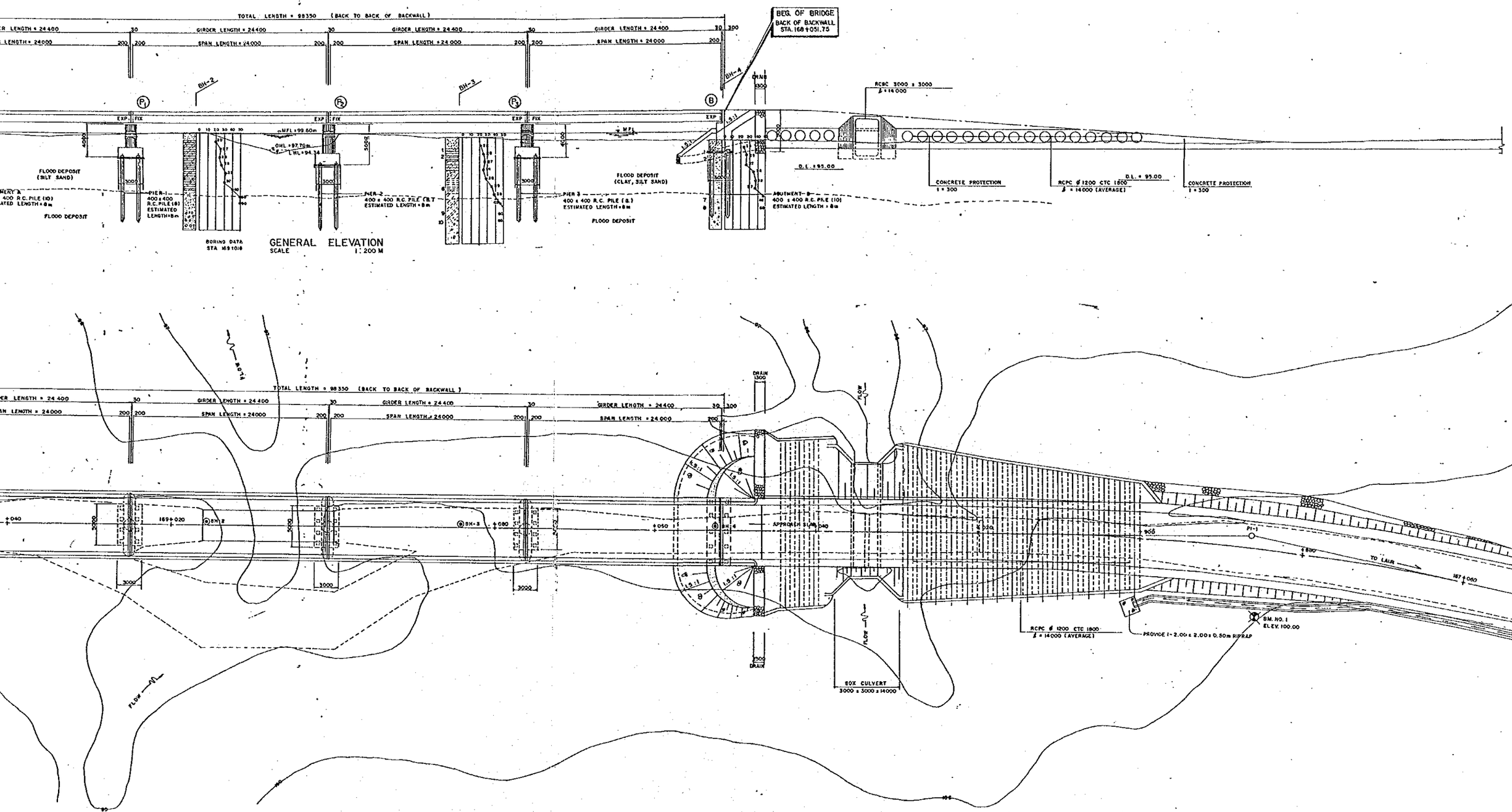
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.		SHEET NO.
03.10	DOLORES BRIDGE PLAN AND PROFILE	40/56



P.I. No.	P.I. STATION	INTERSECTION ANGLE Δ	DISTANCE	AZIMUTH	COORDINATES NORTHING	COORDINATES EASTING	ELEMENTS OF CURVE R	T	LC	E	e	w	V(Kph)
			10.40	18°25'52"									
1	76+755.40	43°00'00"R	194.31	61°25'52"	10065.31	10094.66	80.00	31.51	60.04	5.98	0.08	0.50	40
2	76+948.73	18°44'46"L	40.26	42°41'06"	9972.39	9924.01	140.00	23.11	45.81	1.89	0.05	0.25	40
3	76+988.58	15°44'46"R	53.64	58°25'52"	9942.78	9896.71	124.02	17.15	34.08	1.18	0.05	0.25	40


END OF BRIDGE
BACK OF BACKWALL
STA 169+050.10
TOTAL LENGTH = 98350 (BACK TO BACK OF BACKWALL)
GIRDER LENGTH = 24400
SPAN LENGTH = 24000
DRAIN 1300
BH-1
BH-2
BH-3
A
P1
P2
P3
B
FIX
EXP.
FLOOD DEPOSIT
SAND, GRAVEL BOTH CLAY
D.L. = 93.00
CONCRETE PROTECTION t = 300
RCPC d 1200 C/C 1800 ℓ = 13000 (AVERAGE)
FLOOD DEPOSIT
SAND GRAVEL WITH BOULDER
FLOOD DEPOSIT (SILT SAND)
PIER-1 400 x 400 R.C. PILE (10) ESTIMATED LENGTH = 8m
PIER-1 400 x 400 R.C. PILE (8) ESTIMATED LENGTH = 8m
FLOOD DEPOSIT
MFL = 99.60m
OWL = 97.70m
LWL = 94.34
PIER-2 400 x 400 R.C. PILE (8.7 ESTIMATED LENGTH = 8m
PIER-3 400 x 400 R.C. PILE (8.) ESTIMATED LENGTH = 8m
FLOOD DEPOSIT (CLAY, SILT SAND)
FLOOD DEPOSIT
BORING DATA STA KB1048
BORING DATA STA KB1016
GENERAL ELEVATION
SCALE 1:200 M
FLOW
TO CABALDON
170+000
+080
+060
+040
APPROACH SLAB
PROVIDE 2.00x2.00xG.S. RIPRAP BED
CONCRETE PROTECTION t = 300
RCPC d 1200 C/C 1800 ℓ = 13000 (AVERAGE)
169+020
3000
GENERAL PLAN
SCALE 1:200 M

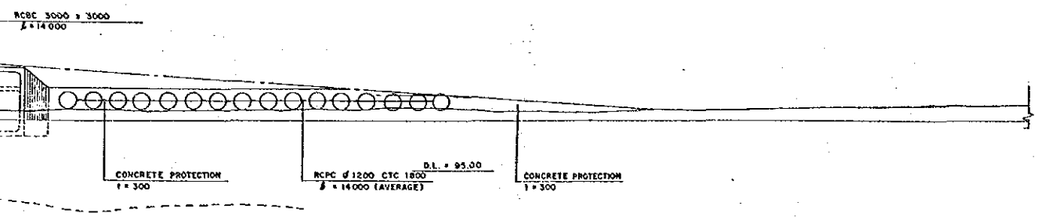


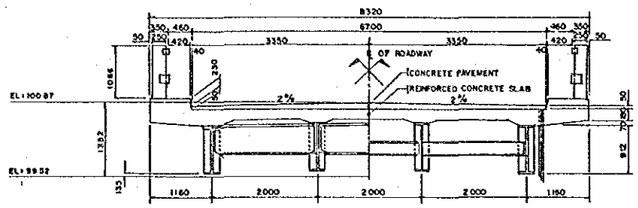
GENERAL ELEVATION
SCALE 1 : 200 M

GENERAL PLAN
SCALE 1 : 200 M

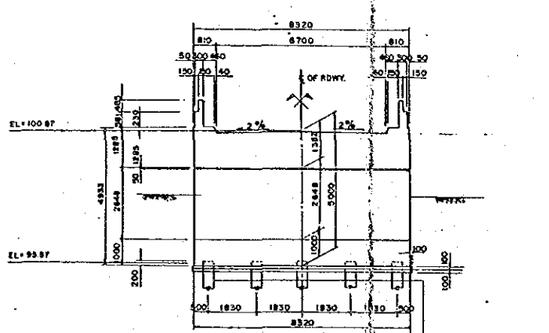
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE II, GROUP 2)

BRIDGE NO.		SHEET NO.
03.13	MANGKUYOG BRIDGE KM. 169+000	41/56

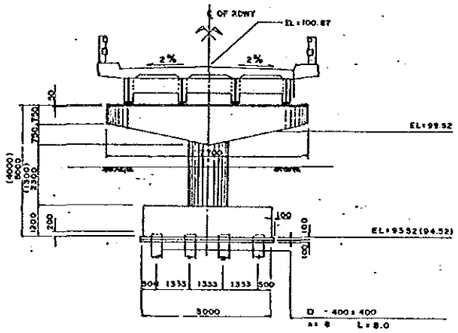




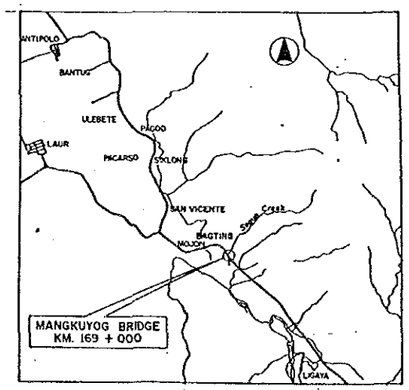
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50 M



ABUTMENT A & B
SCALE 1:100 M



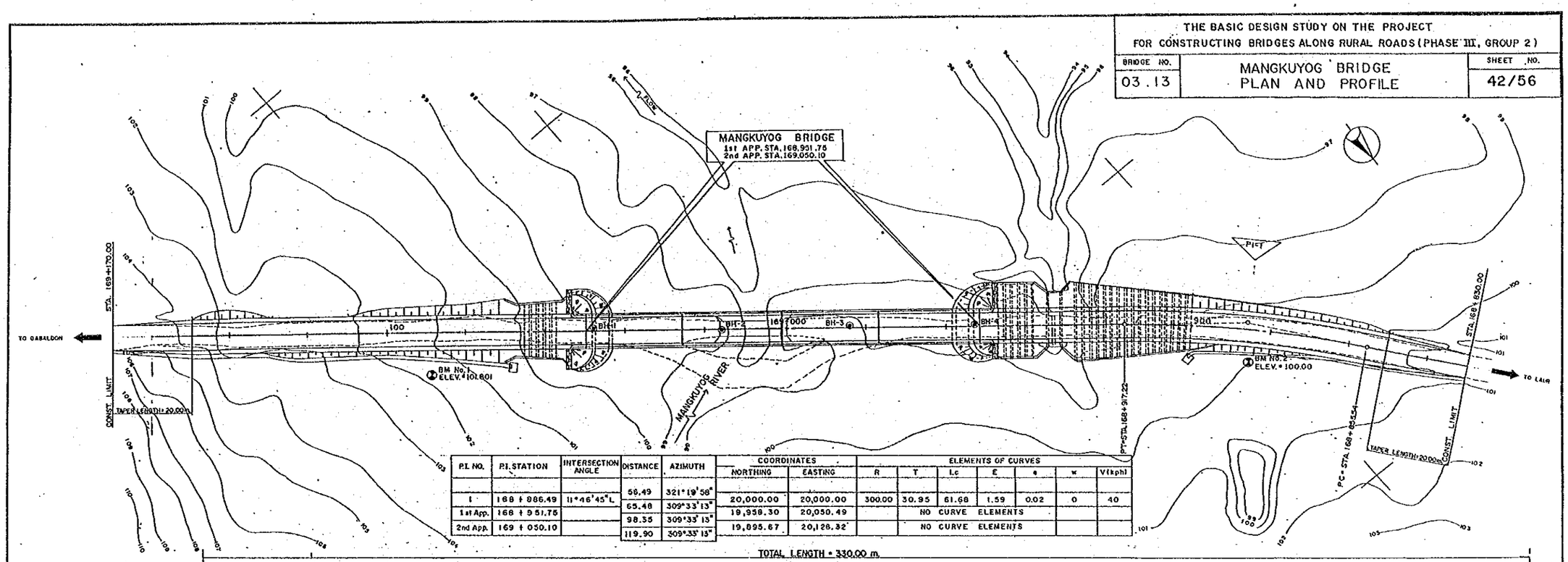
PIER P1 & P3 (P2)
SCALE 1:100 M



VICINITY MAP

THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

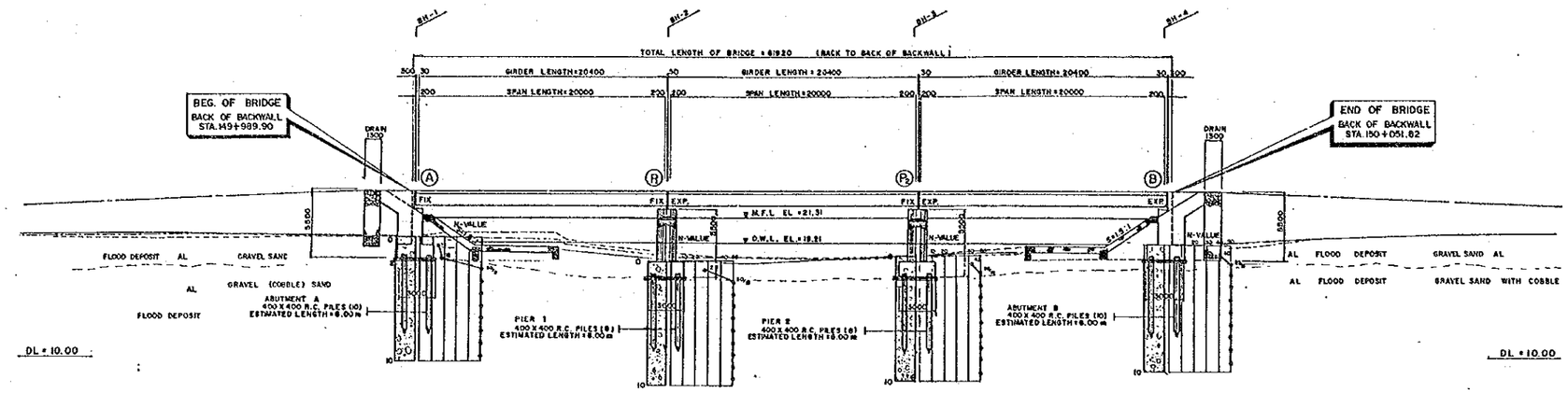
BRIDGE NO.		SHEET NO.
03.13	MANGKUYOG BRIDGE PLAN AND PROFILE	42/56



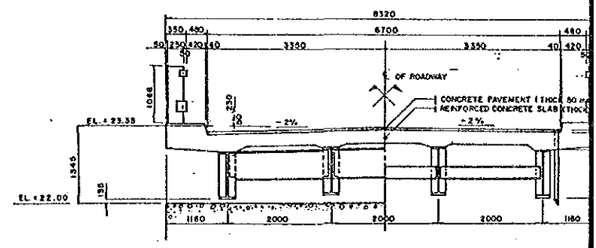
P.I. NO.	P.I. STATION	INTERSECTION ANGLE	DISTANCE	AZIMUTH	COORDINATES NORTHING	COORDINATES EASTING	ELEMENTS OF CURVES R	T	Lc	E	e	w	V(kph)
			56.49	321°19'58"									
1	168 + 886.49	11°46'45"L	65.48	309°33'13"	20,000.00	20,000.00	300.00	30.95	61.68	1.59	0.02	0	40
1st App.	168 + 951.75		98.35	309°33'13"	19,958.30	20,050.49	NO CURVE ELEMENTS						
2nd App.	169 + 050.10		119.90	309°33'13"	19,895.67	20,126.32	NO CURVE ELEMENTS						

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

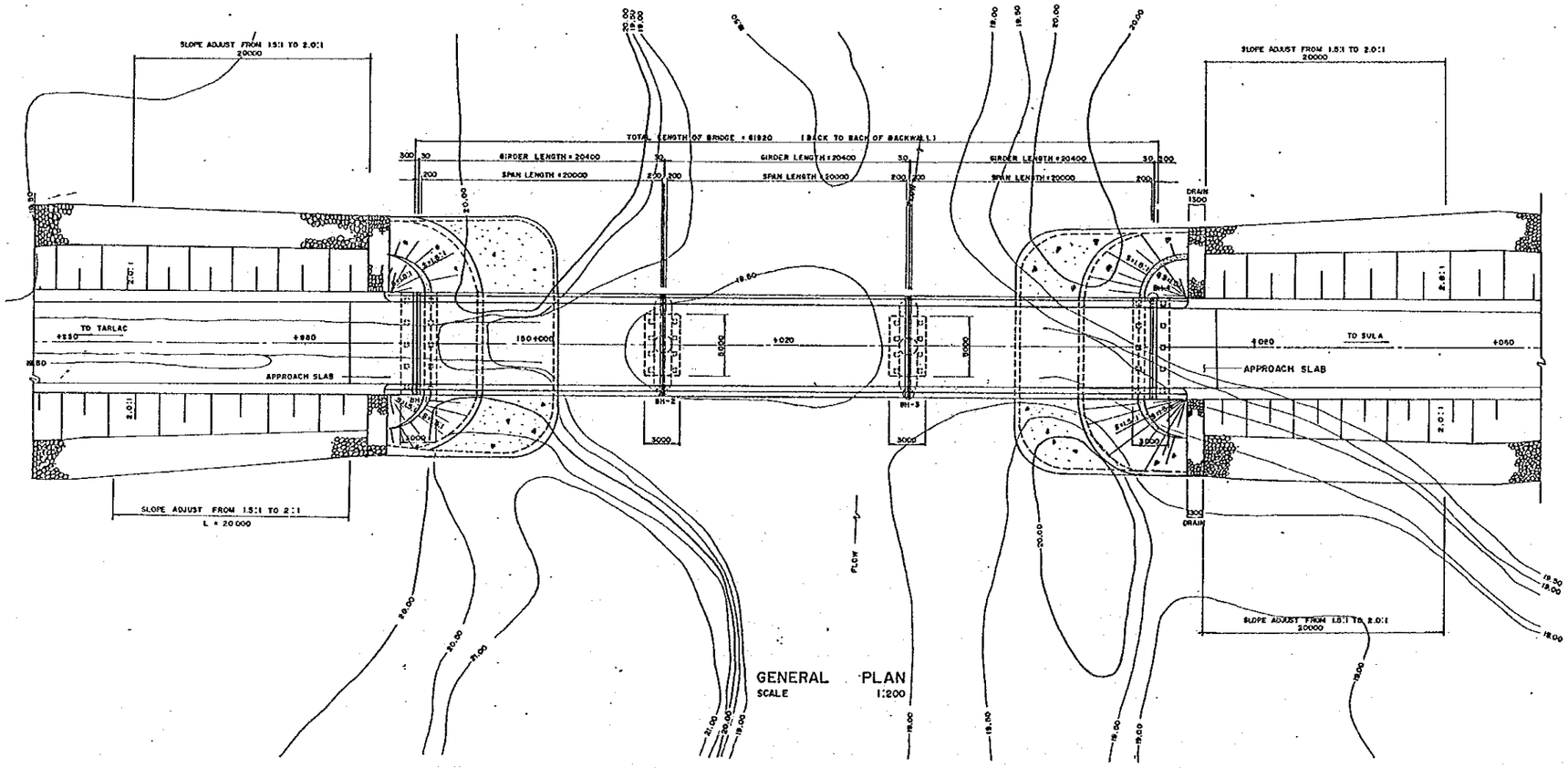
BRIDGE NO.	SULA BRIDGE Km.150+000
03.17	



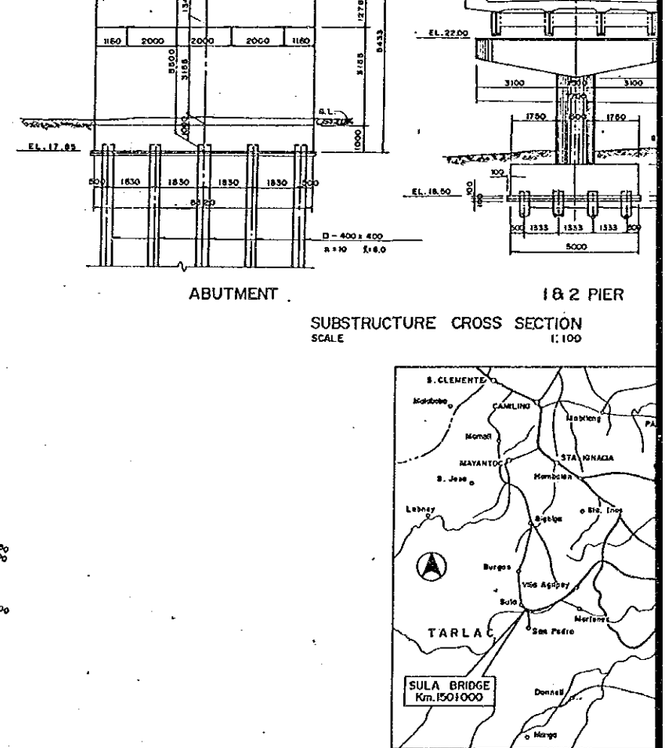
GENERAL ELEVATION
SCALE 1:200



SUPERSTRUCTURE CROSS SECTION
SCALE: 1:50



GENERAL PLAN
SCALE 1:200



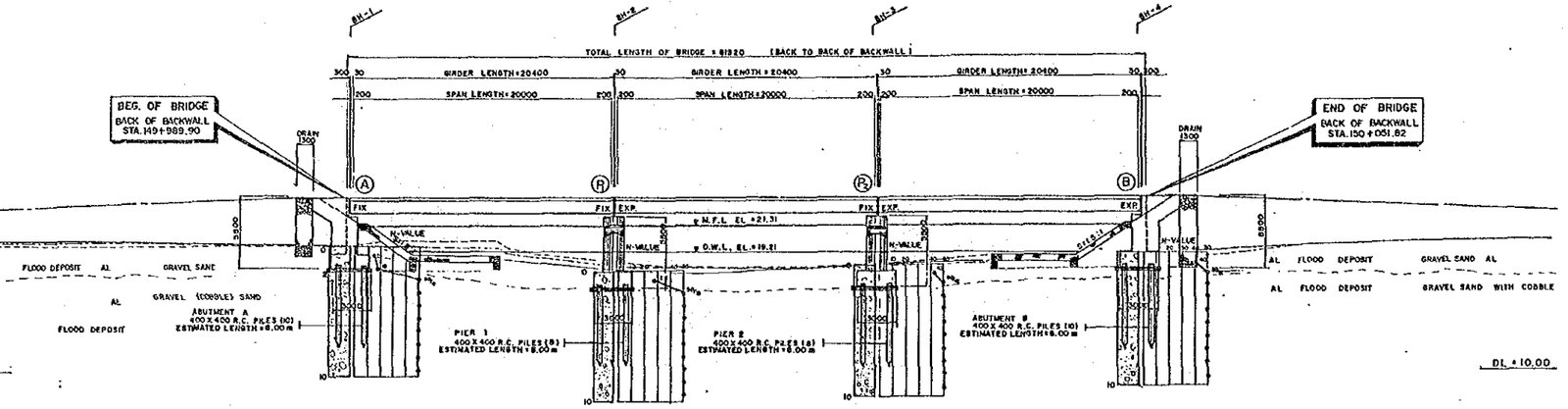
ABUTMENT 1&2 PIER

SUBSTRUCTURE CROSS SECTION
SCALE 1:100

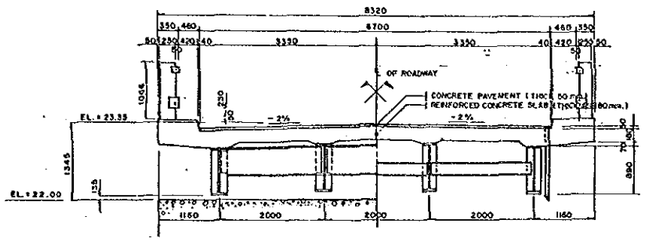
VICINITY MAP

THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

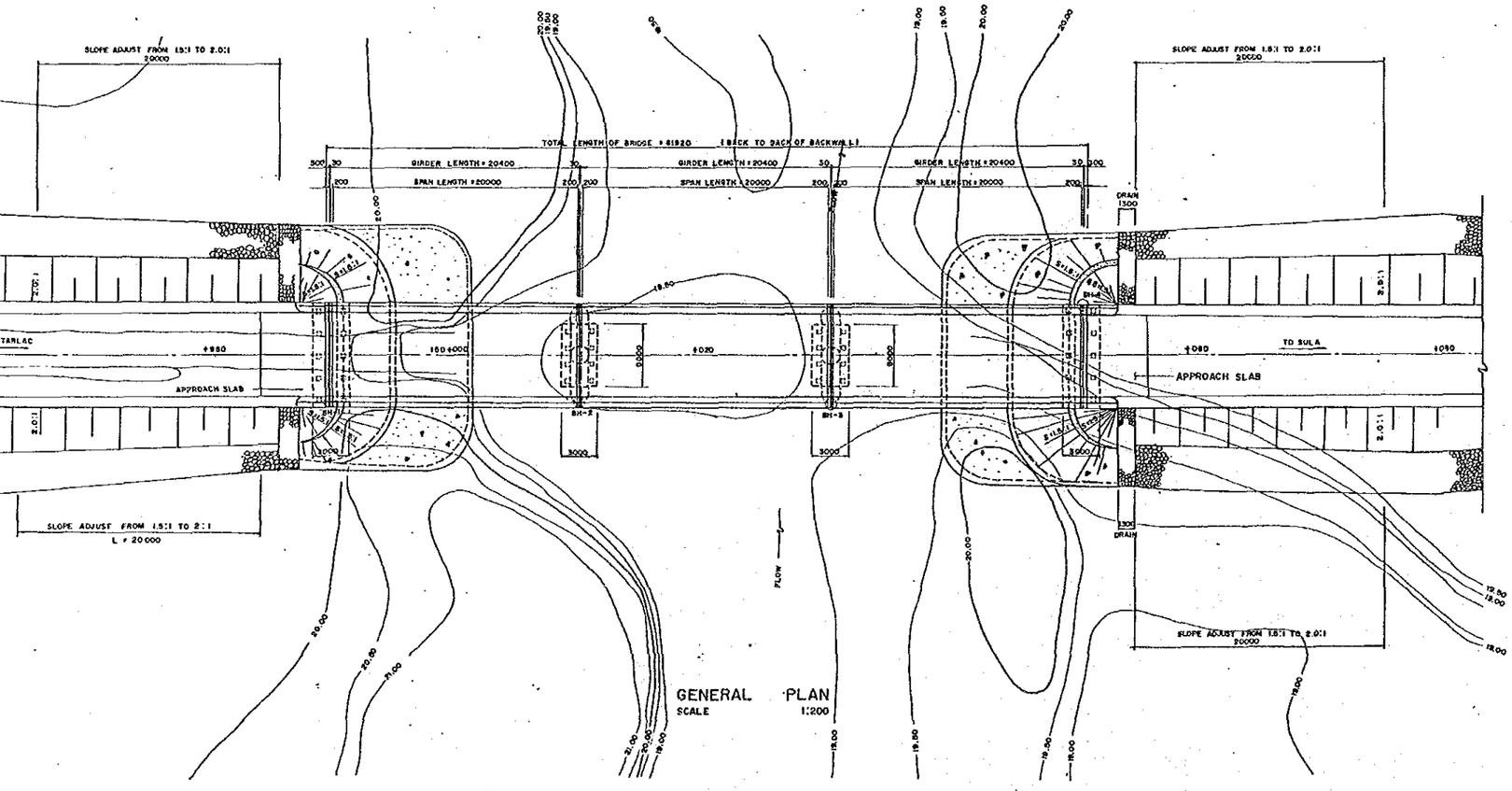
BRIDGE NO.		SHEET NO.
03.17	SULA BRIDGE Km. 150+000	43/56



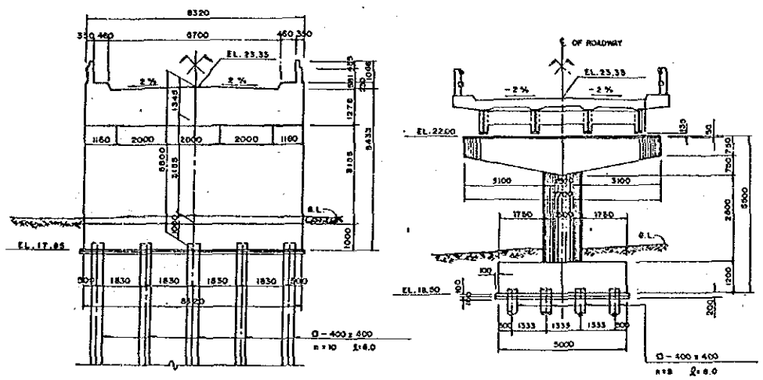
GENERAL ELEVATION
SCALE 1:200



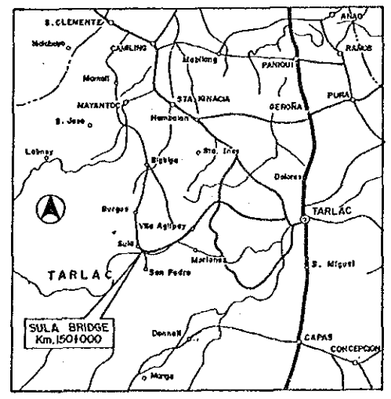
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



GENERAL PLAN
SCALE 1:200



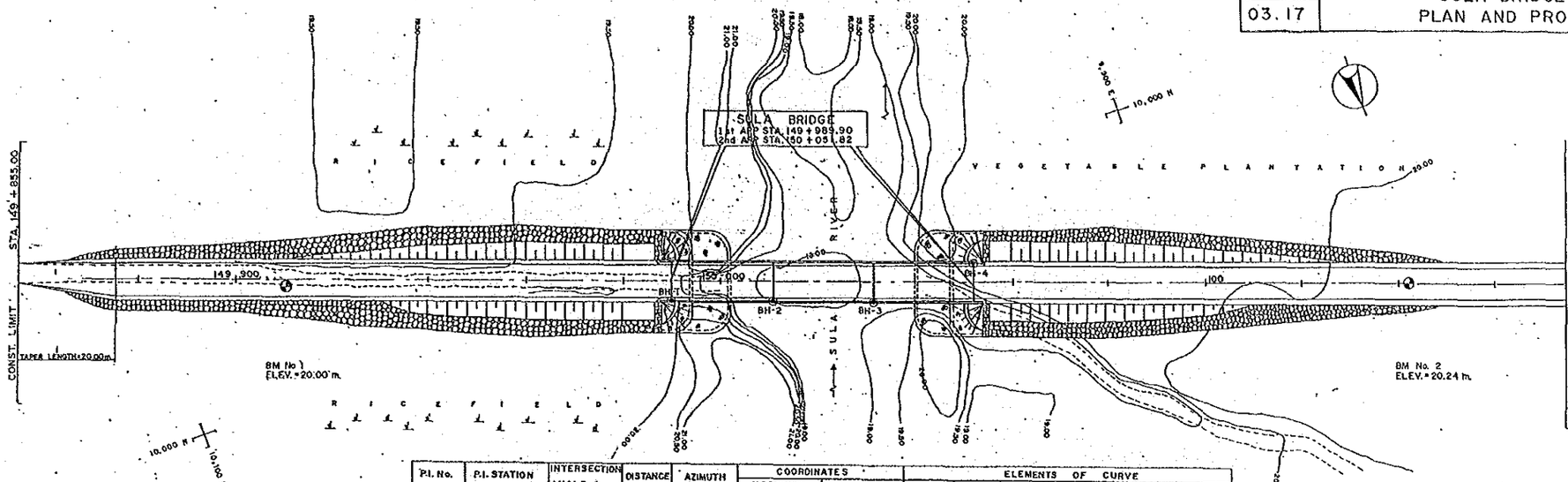
SUBSTRUCTURE CROSS SECTION
SCALE 1:100



VICINITY MAP

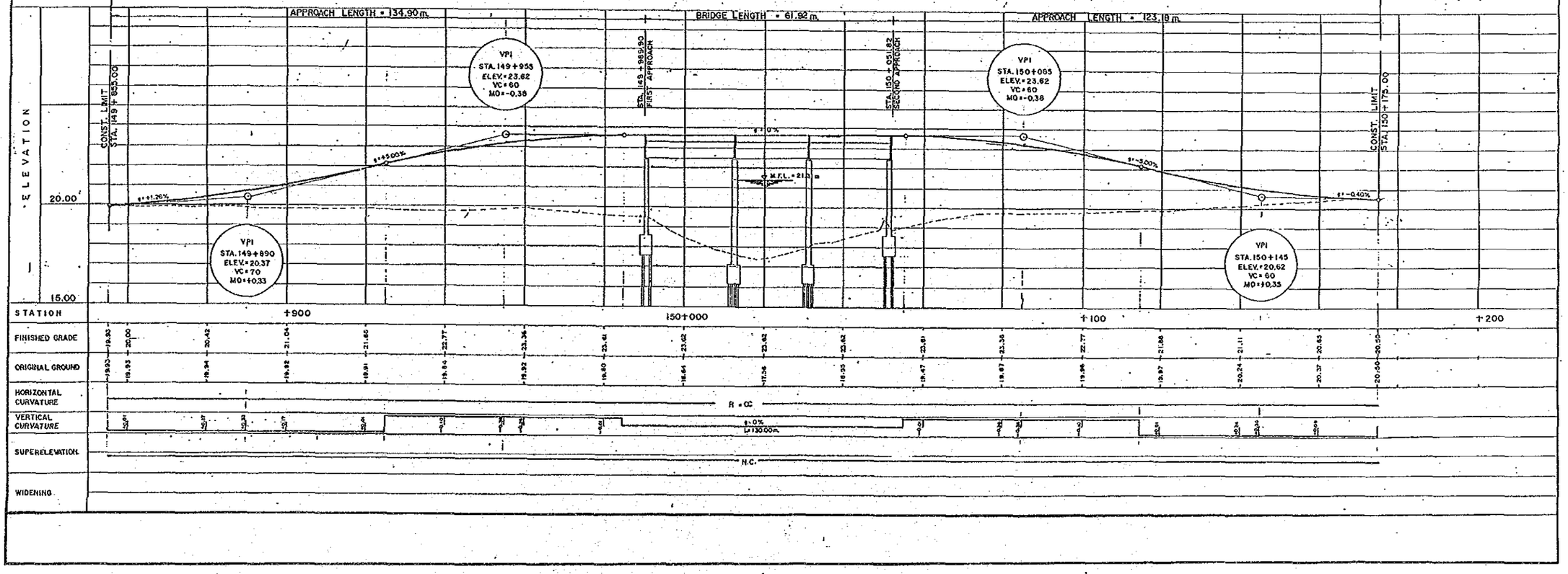
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.		SHEET NO.
03.17	SULA BRIDGE PLAN AND PROFILE	44/56



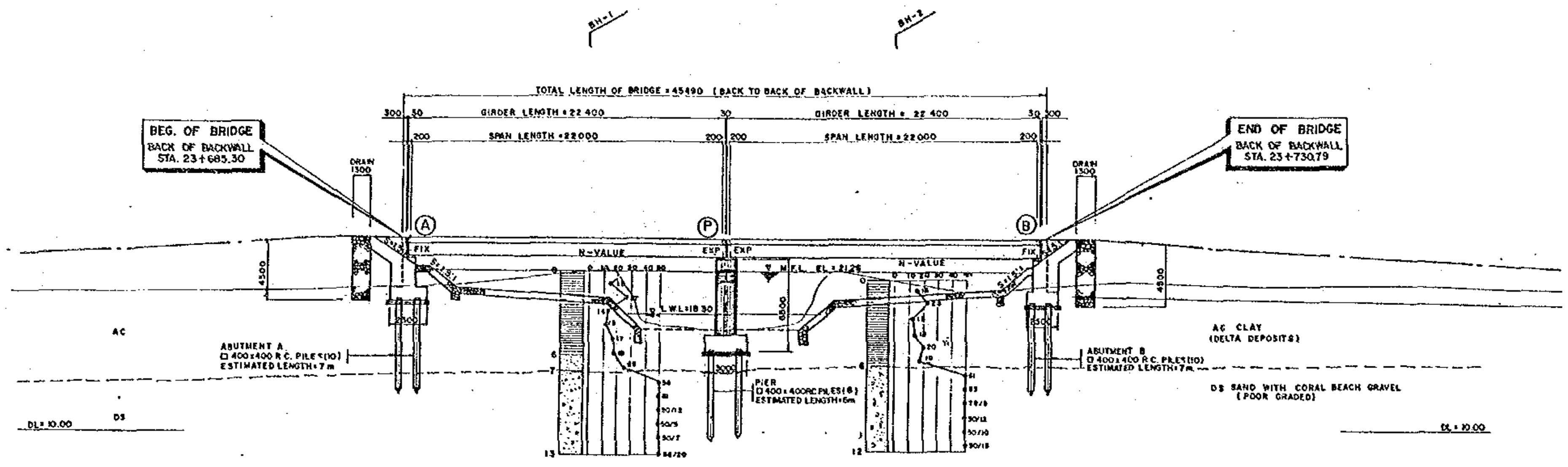
P.I. No.	P.I. STATION	INTERSECTION ANGLE Δ	DISTANCE	AZIMUTH	COORDINATES NORTHING	COORDINATES EASTING	ELEMENTS OF CURVE R	T	LC	E	e	w	V(Kph)
			134.90	109°49' 18"									
1st App.	149+989.90		61.92	109°49' 18"	10002.00	9998.93	NO ELEMENTS OF CURVE						40
2nd App.	150+051.82		123.18	109°49' 18"	10023.00	9940.68	NO ELEMENTS OF CURVE						40

TOTAL LENGTH = 320.00 m.

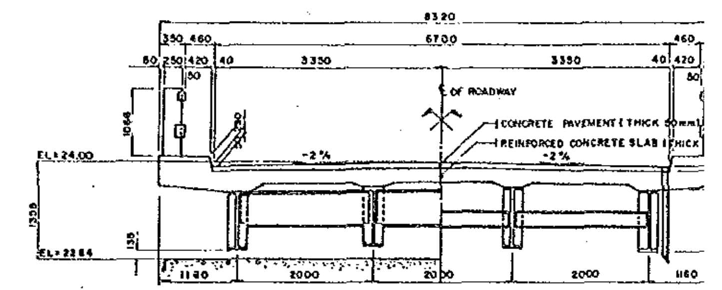


THE BASIC DESIGN STUDY ON THE PROJEC
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHAS

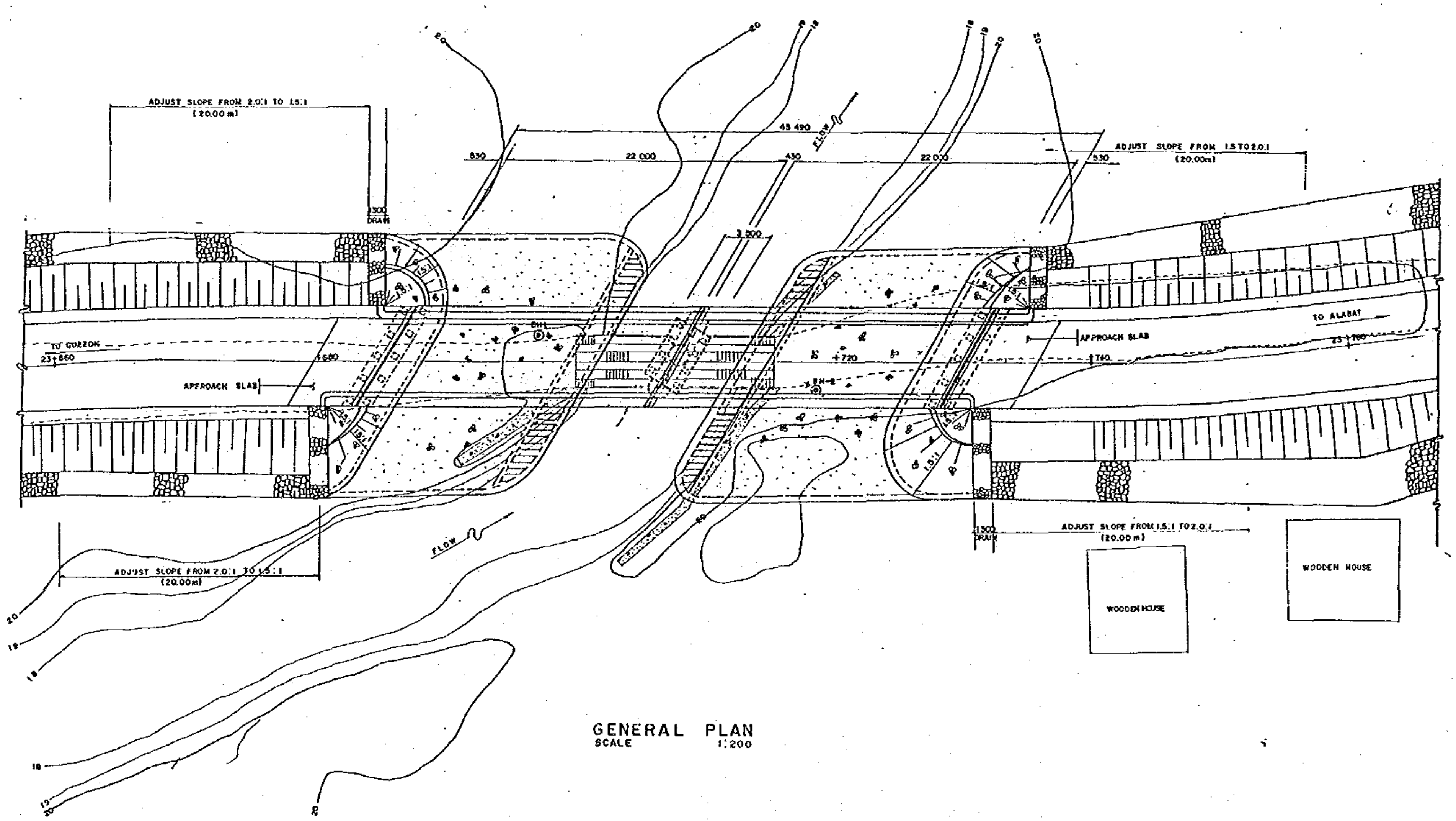
BRIDGE NO.	CAMAGONG BRIDGE
04.07a	Km. 23 + 700



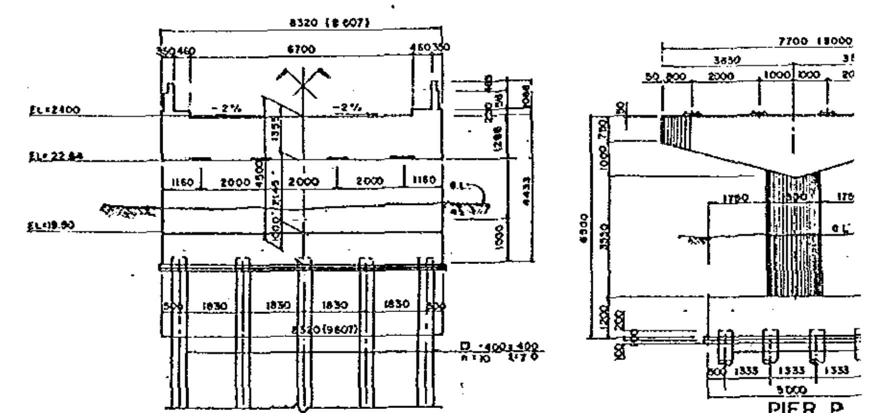
GENERAL ELEVATION
SCALE 1:200



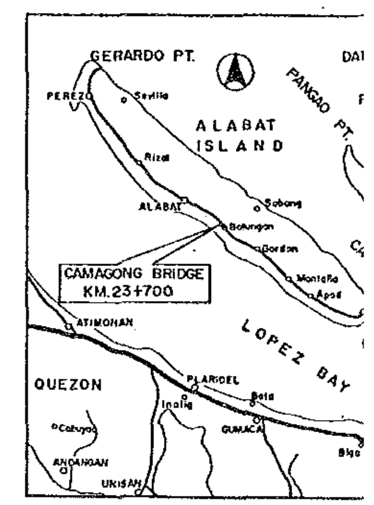
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



GENERAL PLAN
SCALE 1:200



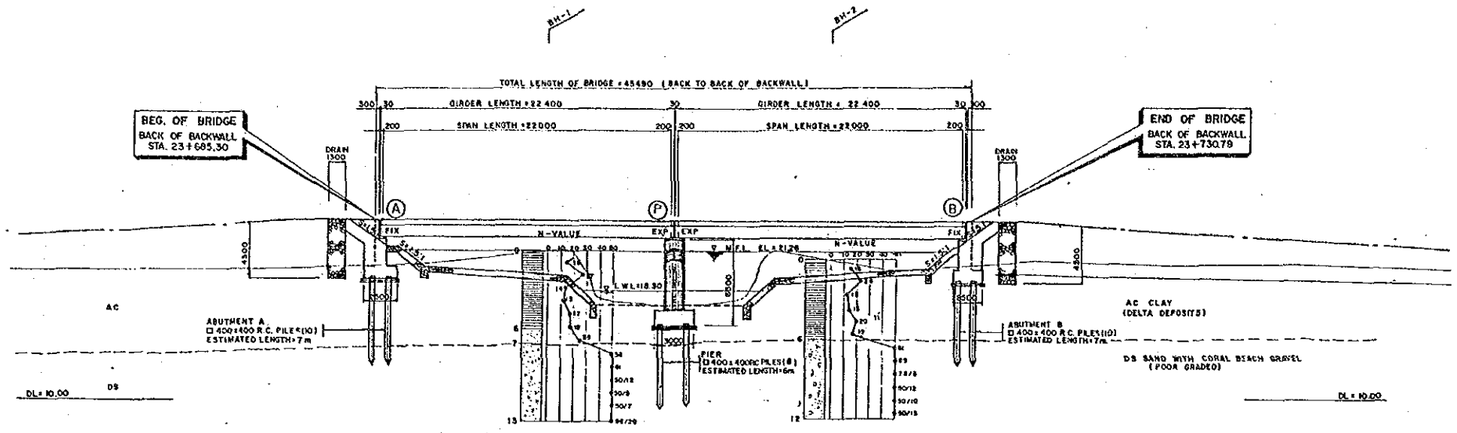
SUBSTRUCTURE CROSS SECTION
SCALE 1:100



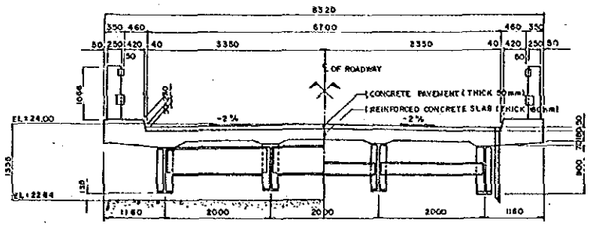
VICINITY MAP

THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

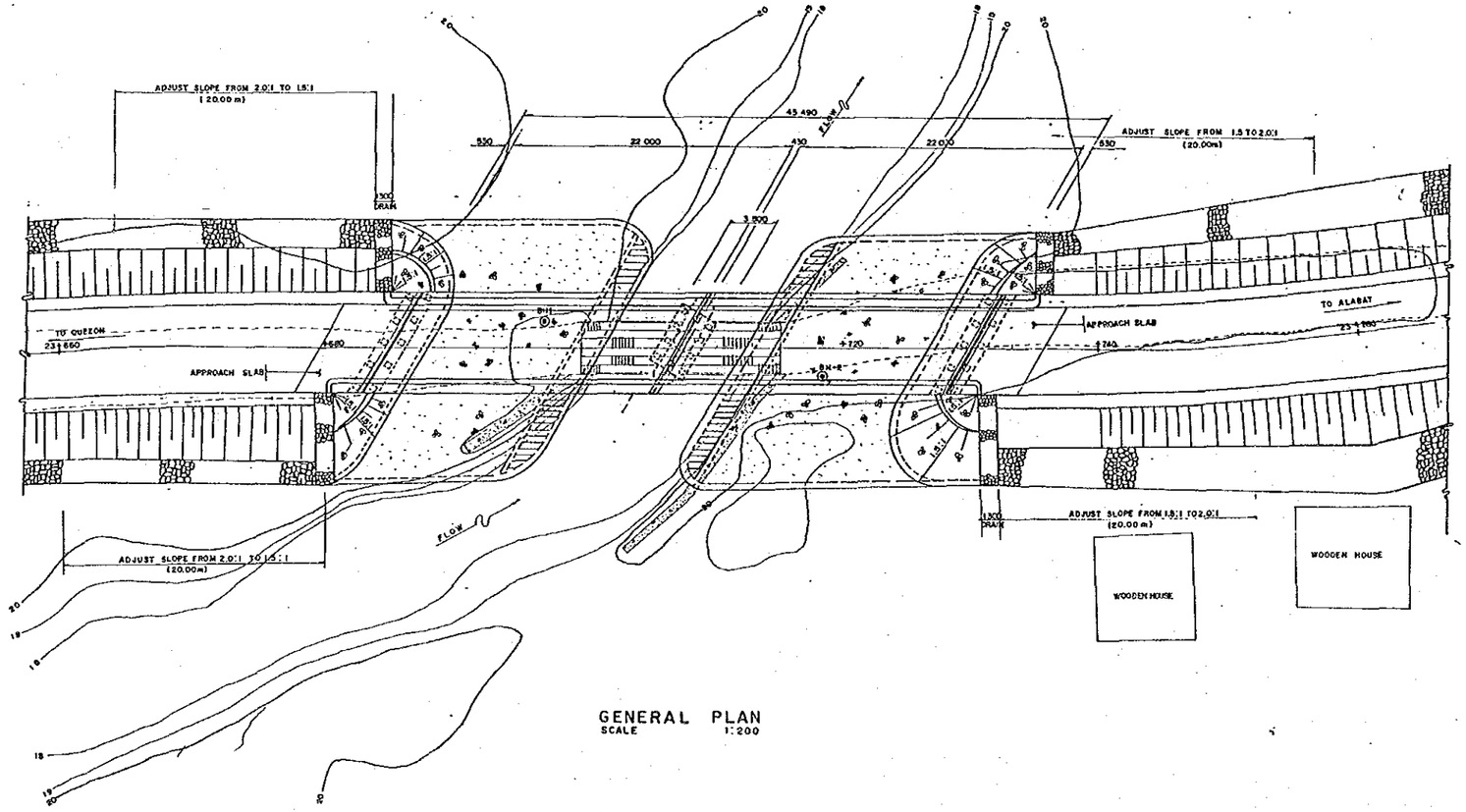
BRIDGE NO.		SHEET NO.
04.07a	CAMAGONG BRIDGE Km. 23 + 700	45/56



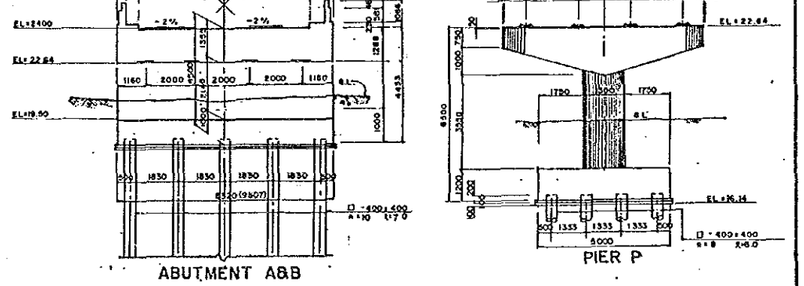
GENERAL ELEVATION
SCALE 1:200



SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



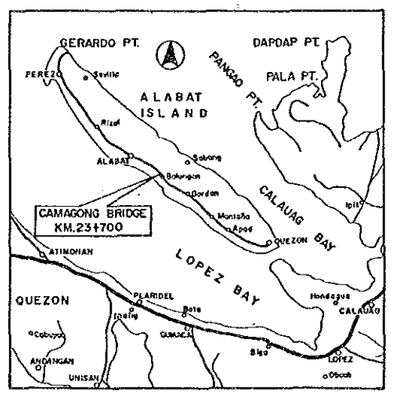
GENERAL PLAN
SCALE 1:200



ABUTMENT A&B

PIER P

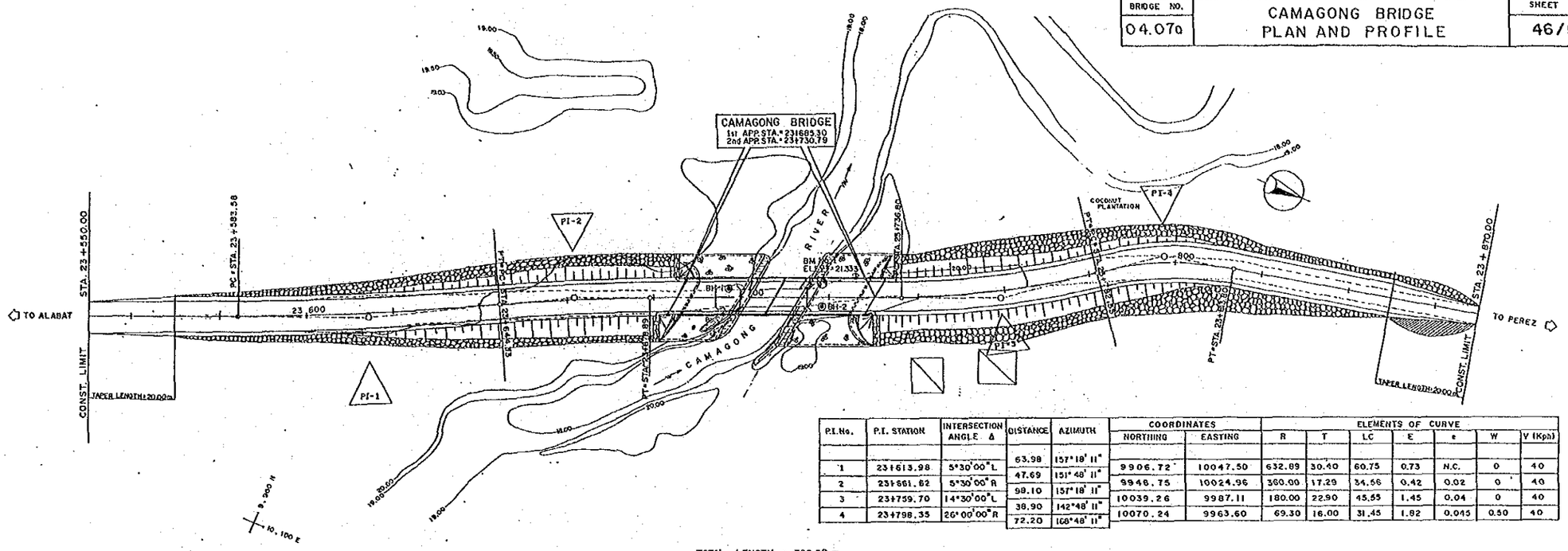
SUBSTRUCTURE CROSS SECTION
SCALE 1:100



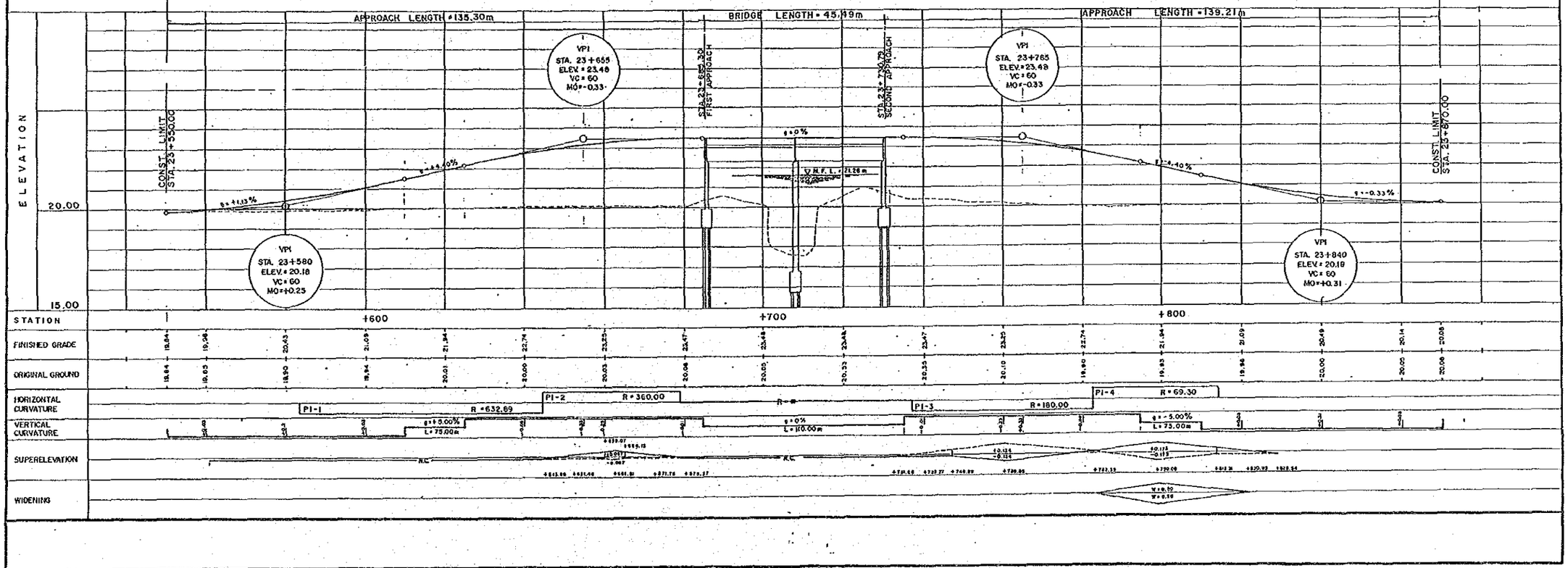
VICINITY MAP

THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.	CAMAGONG BRIDGE PLAN AND PROFILE	SHEET NO.
04.07a		46/56

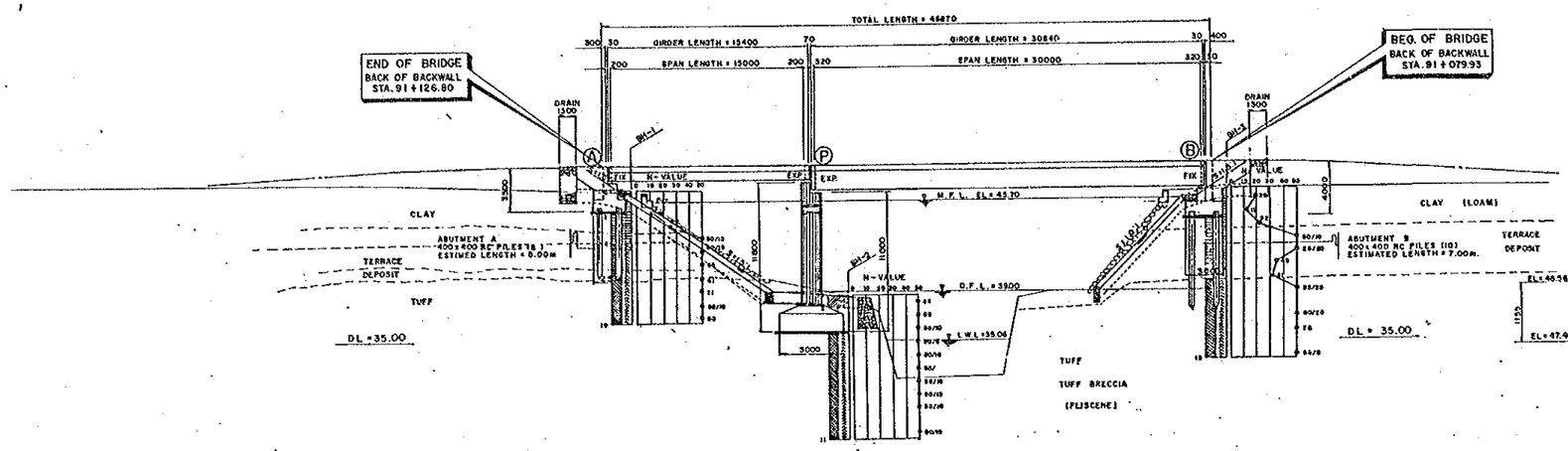


P.I.No.	P.I. STATION	INTERSECTION ANGLE Δ	DISTANCE	AZIMUTH	COORDINATES NORTHING	COORDINATES EASTING	ELEMENTS OF CURVE R	T	LC	E	e	W	V (Kph)
1	231613.98	5°30'00"L	63.98	157°18' 11"	9906.72	10047.50	632.89	30.40	60.75	0.73	N.C.	0	40
2	231661.62	5°30'00"R	47.69	151°48' 11"	9948.75	10024.96	360.00	17.29	34.56	0.42	0.02	0	40
3	231759.70	14°30'00"L	98.10	157°18' 11"	10039.26	9987.11	180.00	22.90	45.55	1.45	0.04	0	40
4	231798.35	26°00'00"R	38.90	142°48' 11"	10070.24	9963.60	69.30	16.00	31.45	1.82	0.045	0.50	40
			72.20	168°48' 11"									

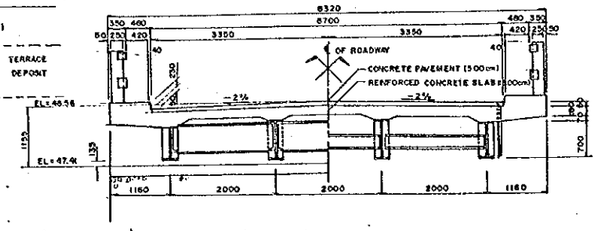


FOR CONS

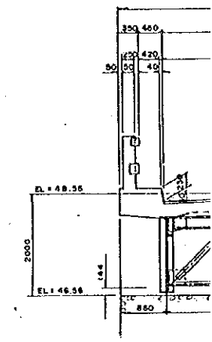
BRIDGE NO.
04.20a



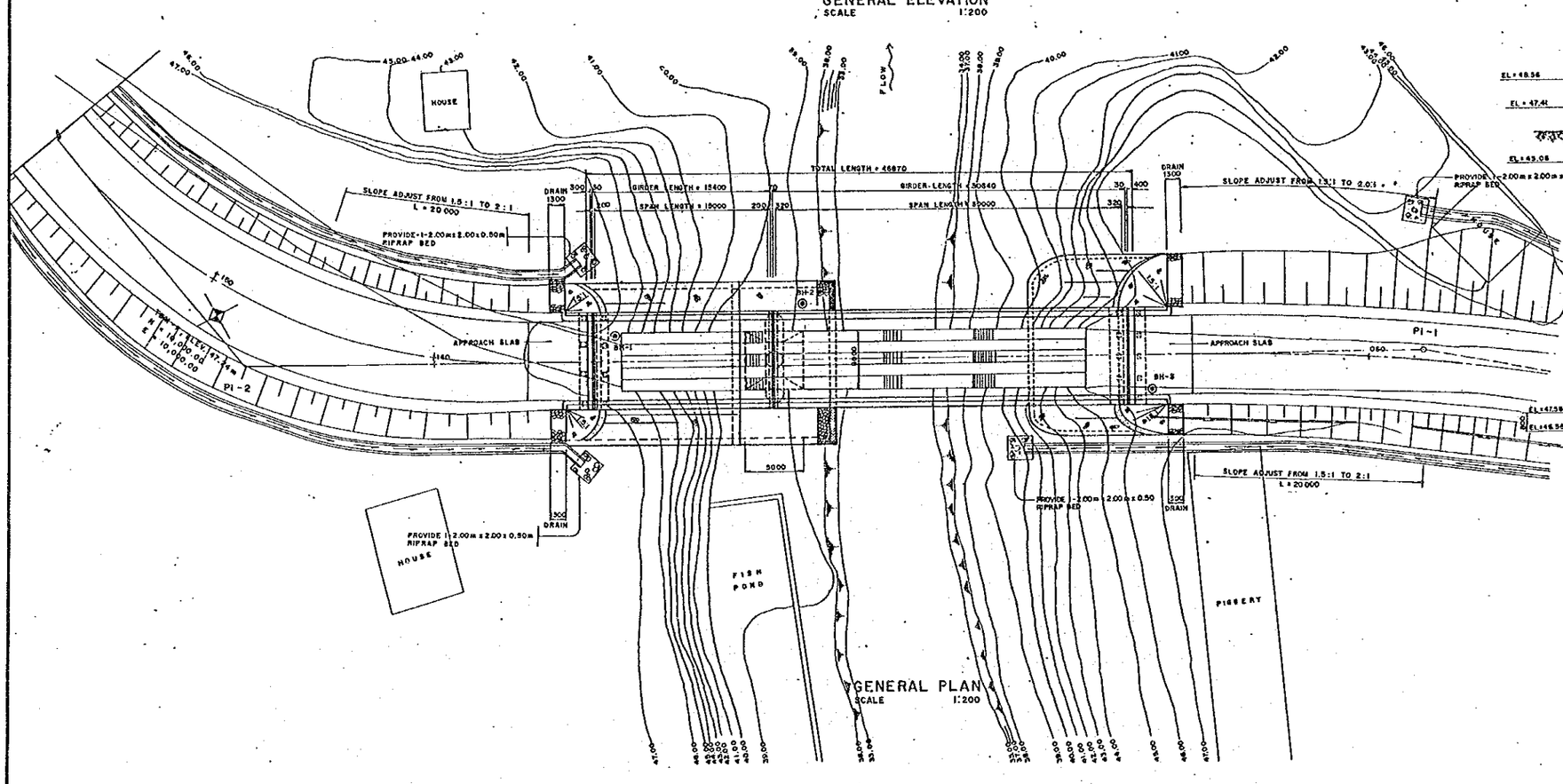
GENERAL ELEVATION
SCALE 1:200



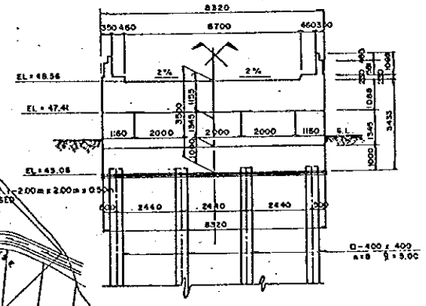
SUPERSTRUCTURE CROSS SECTION
SCALE: 1:50



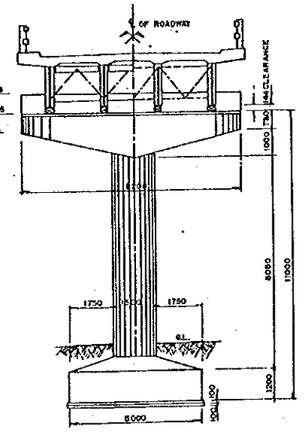
S
SC



GENERAL PLAN
SCALE 1:200



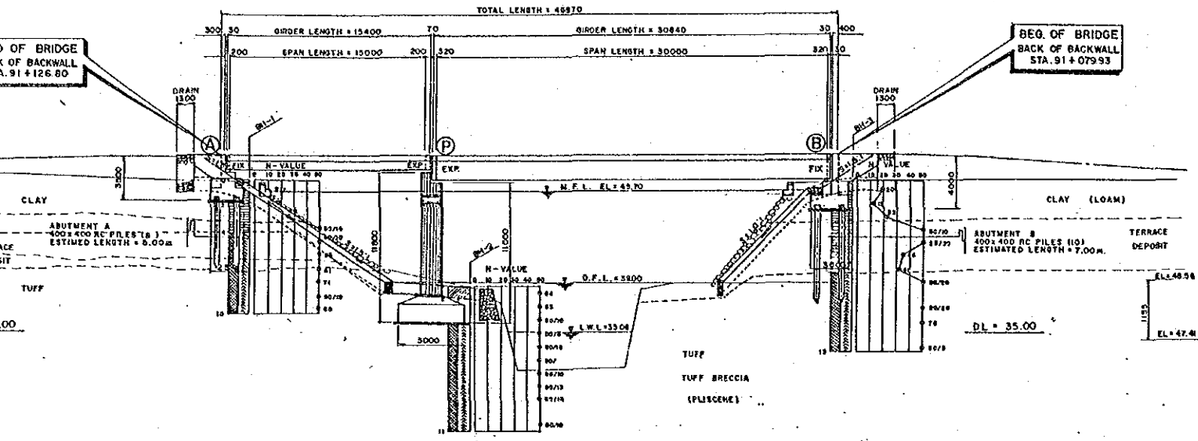
ABUTMENT A
SCALE 1:100M



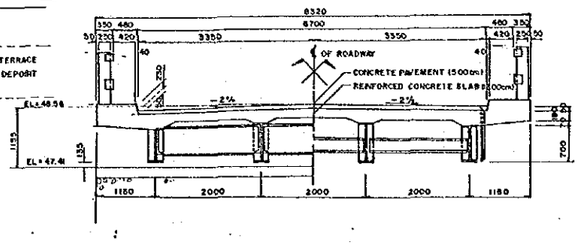
PIER
SCALE 1:100

THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

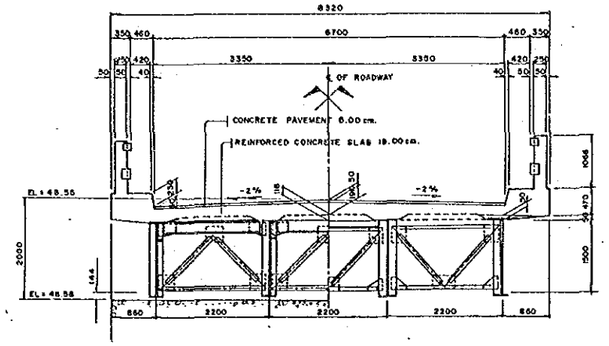
BRIDGE NO.		SHEET NO.
04.20a	PARAGUSAN BRIDGE KM. 91+084	47/56



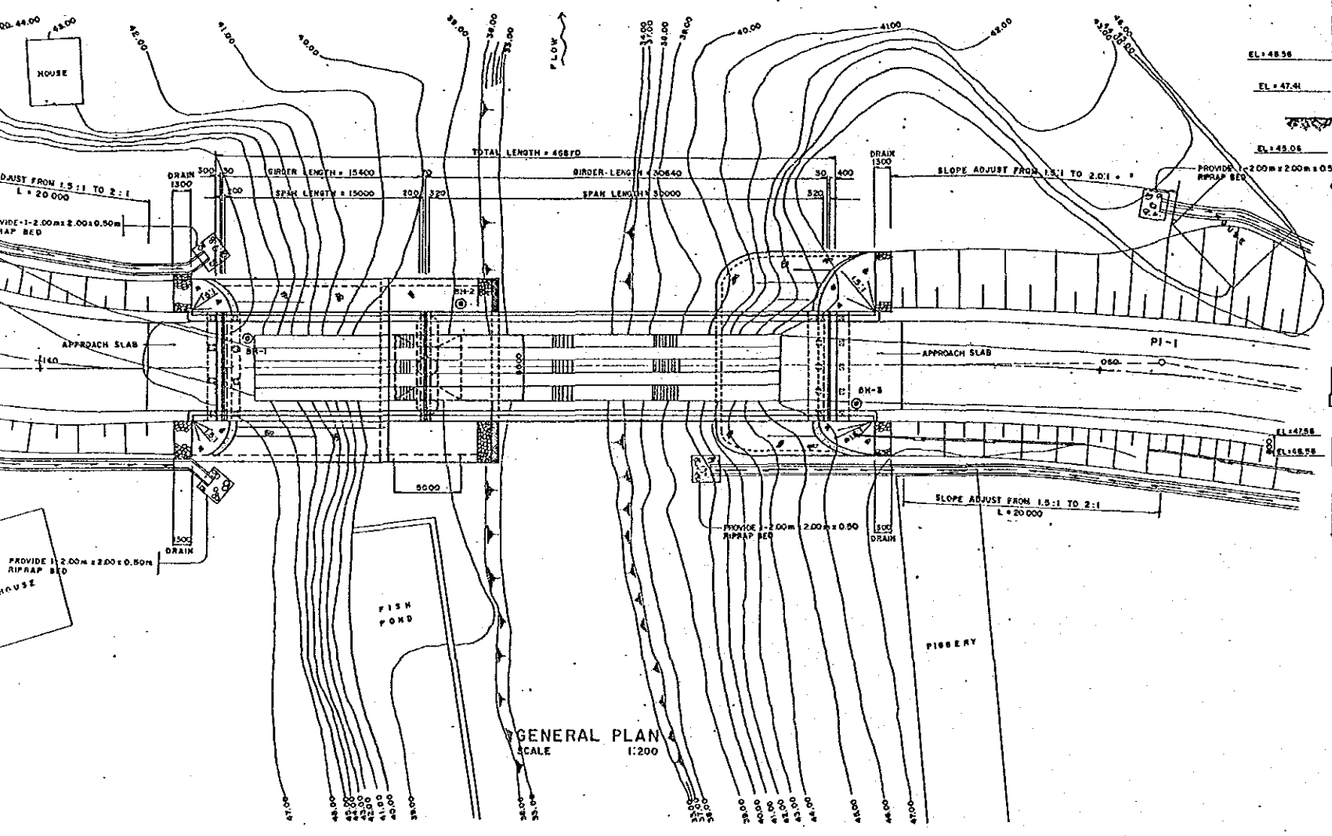
GENERAL ELEVATION
SCALE 1:200



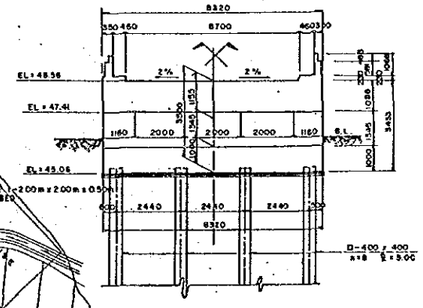
SUPERSTRUCTURE CROSS SECTION
SCALE: 1:50



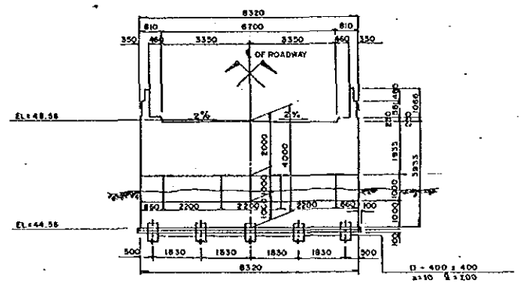
SUPERSTRUCTURE CROSS SECTION
SCALE: 1:50



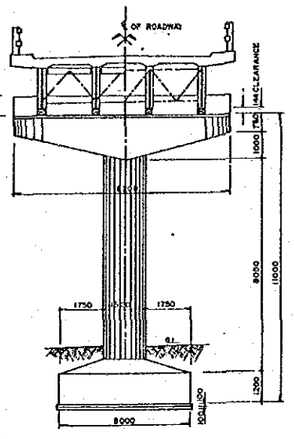
GENERAL PLAN
SCALE 1:200



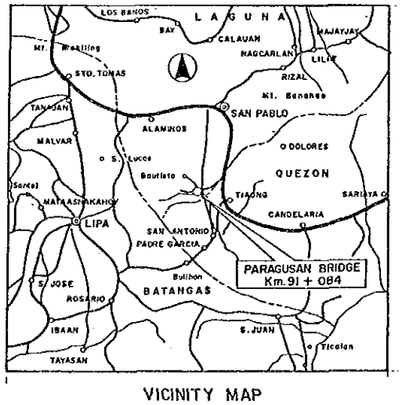
ABUTMENT A
SCALE 1:100M



ABUTMENT B
SCALE 1:100 M.



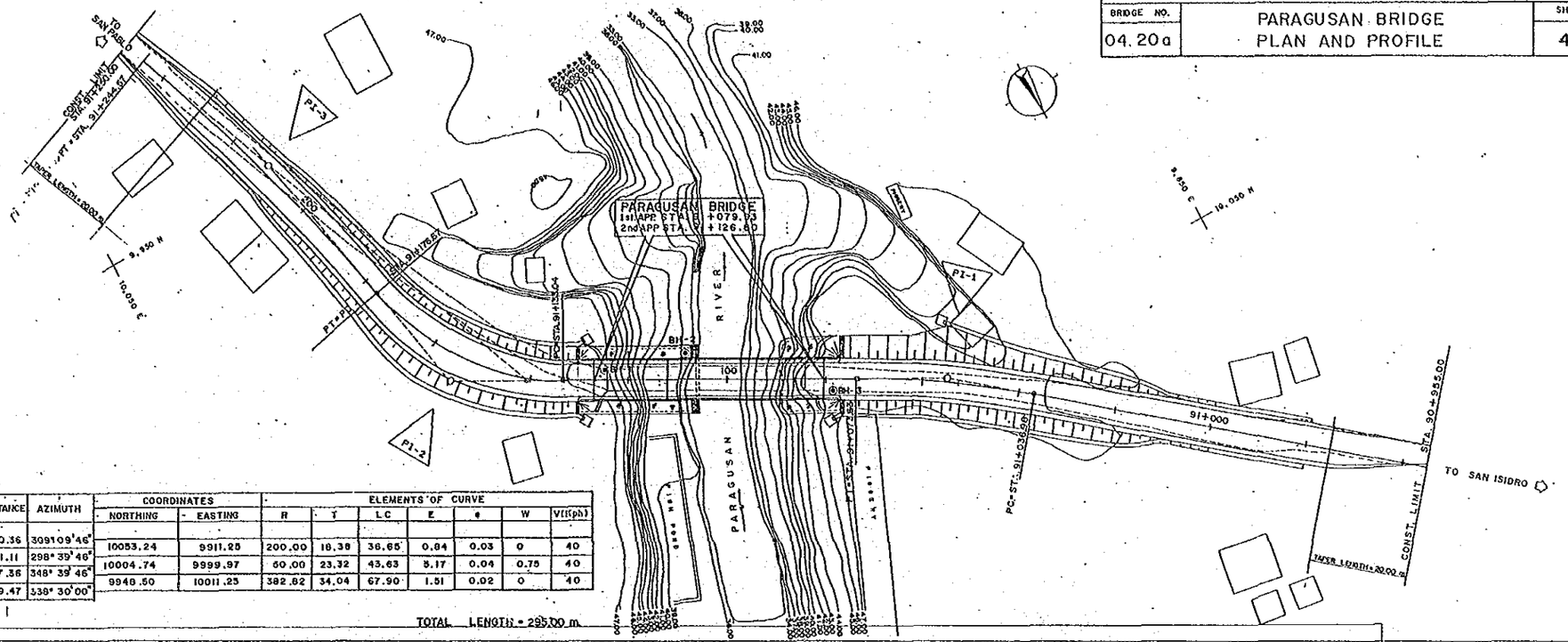
PIER
SCALE 1:100



VICINITY MAP

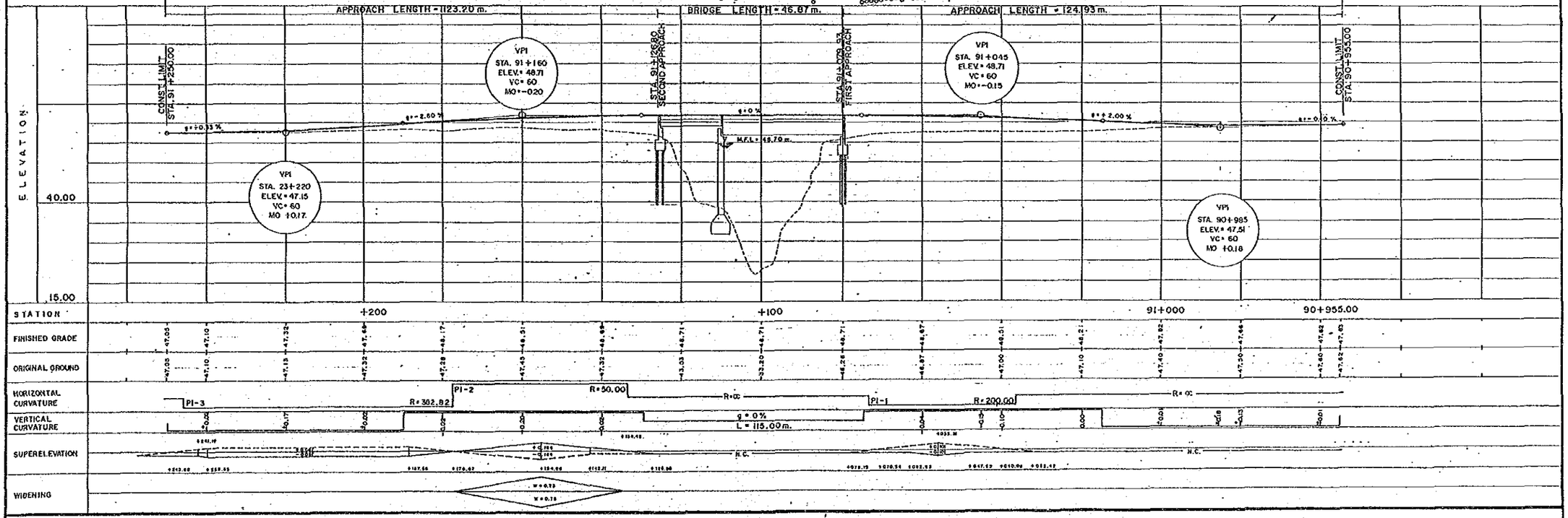
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.		SHEET NO.
04.20a	PARAGUSAN BRIDGE PLAN AND PROFILE	48/56



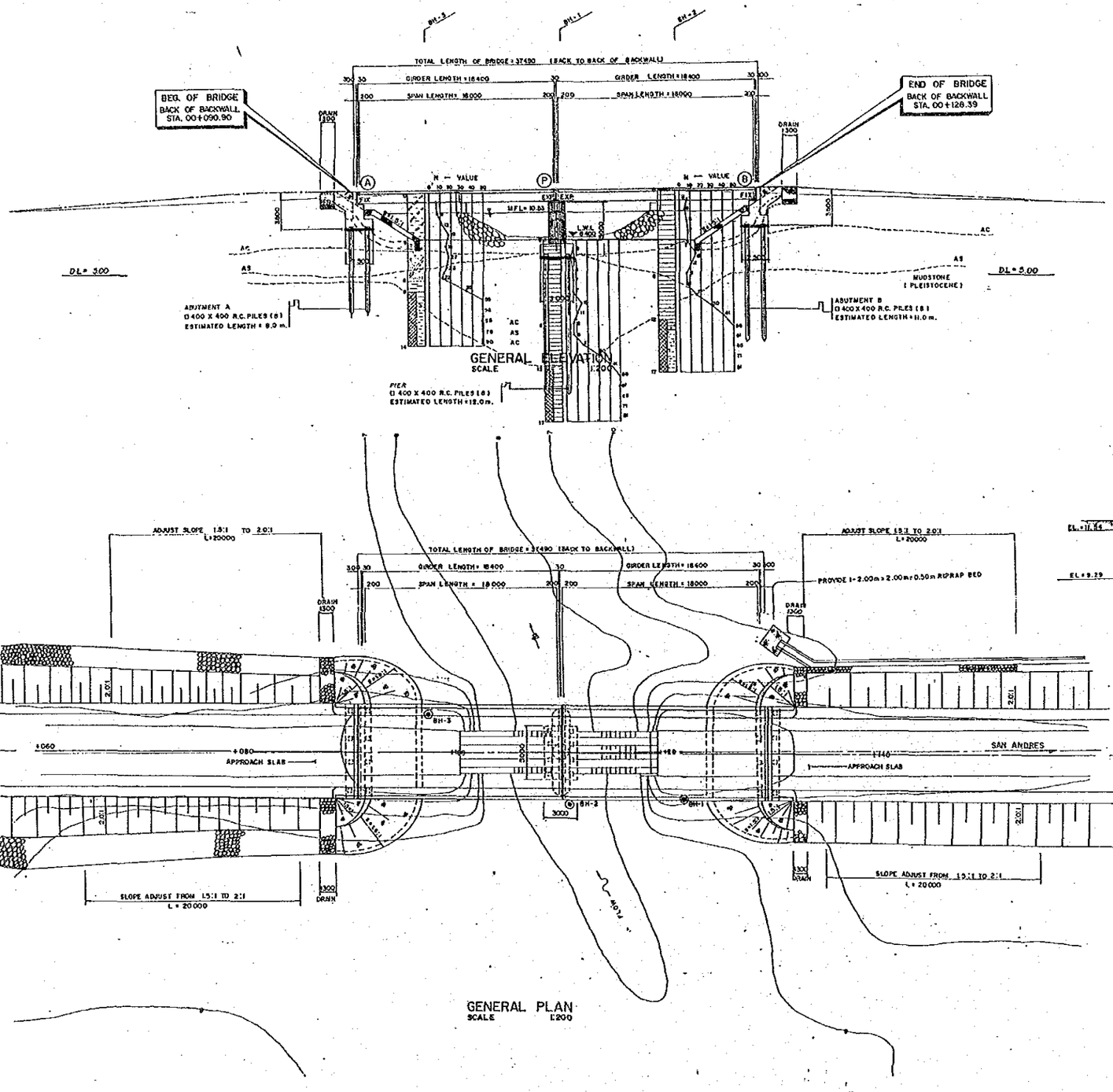
P.I.NO.	P.I. STATION	INTERSECTION ANGLE Δ	DISTANCE	AZIMUTH	COORDINATES NORTHING	COORDINATES EASTING	ELEMENTS OF CURVE R	T	LC	E	e	W	V(kph)
1	91+055.36	10°30'00" L	100.36	309°09'46"	10053.24	9911.25	200.00	18.38	36.65	0.84	0.03	0	40
2	91+156.36	50°00'00" R	101.11	298°39'46"	10004.74	9999.97	50.00	23.32	43.63	5.17	0.04	0.75	40
3	91+210.71	10°09'46" L	57.36	348°39'46"	9948.50	10011.25	382.82	34.04	67.90	1.51	0.02	0	40
			39.47	338°30'00"									

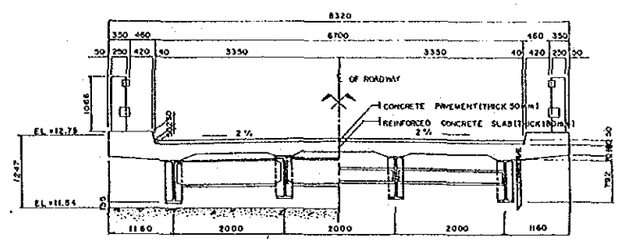
TOTAL LENGTH = 295.00 m



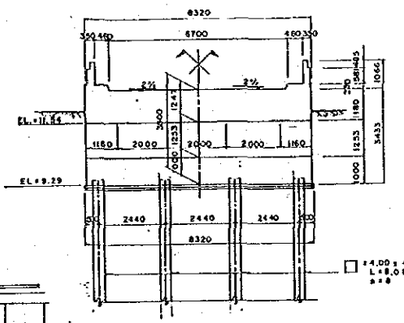
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.	TAN AGAN BRIDGE	SHEET NO.
04.07b	Km. 11 + 100	49/56

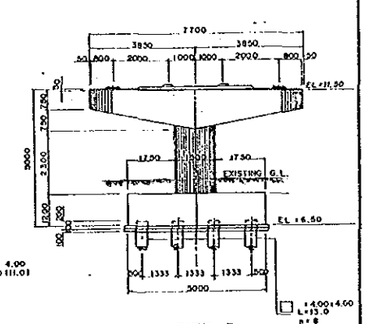




SUPERSTRUCTURE CROSS SECTION
SCALE: 1:50

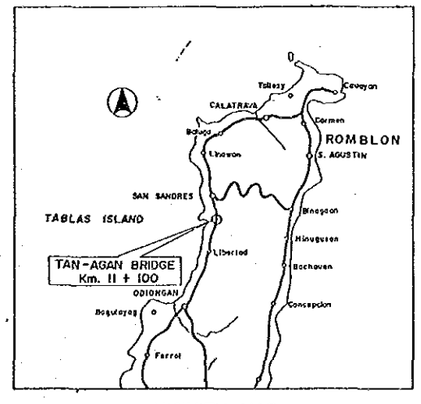


ABUTMENT A&B



PIER P

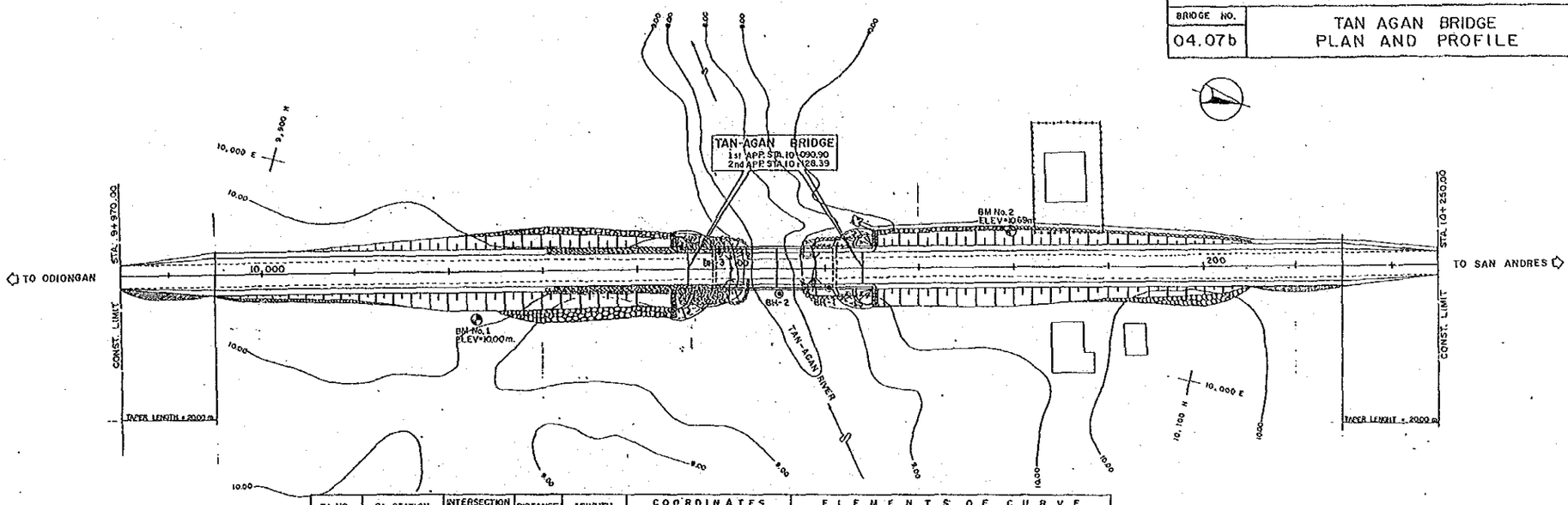
SUBSTRUCTURE CROSS SECTION
SCALE 1:100



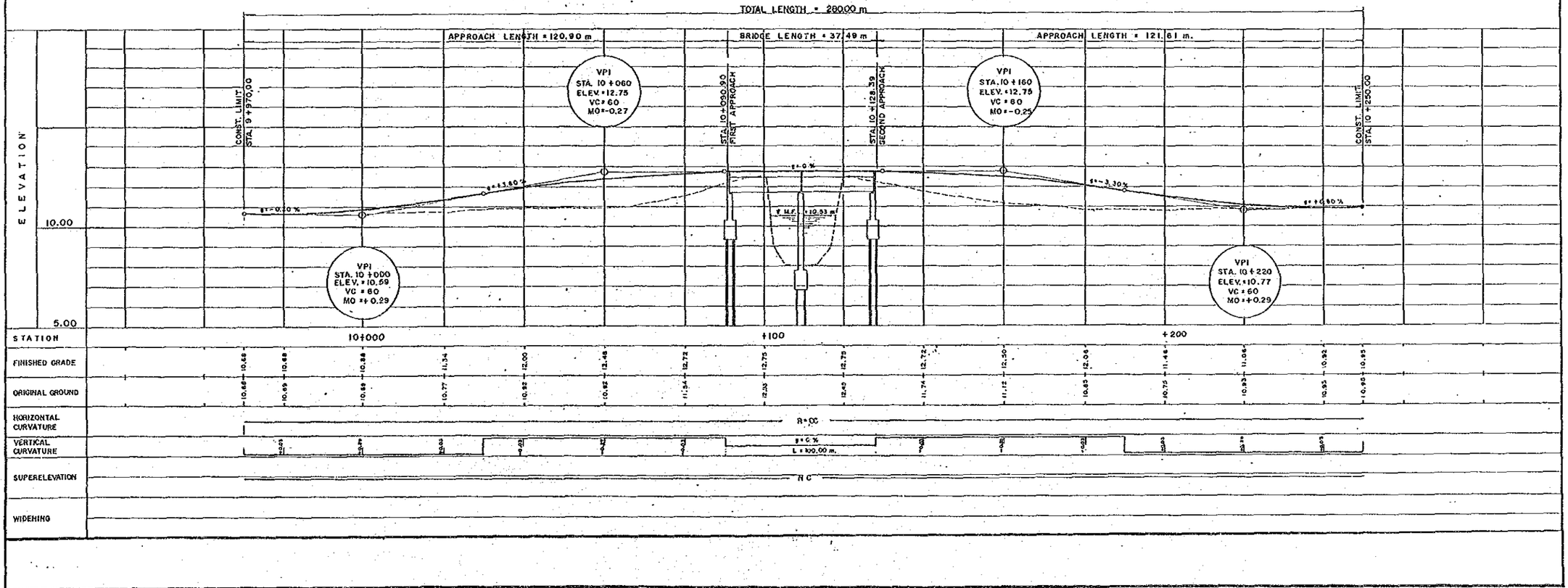
VICINITY MAP

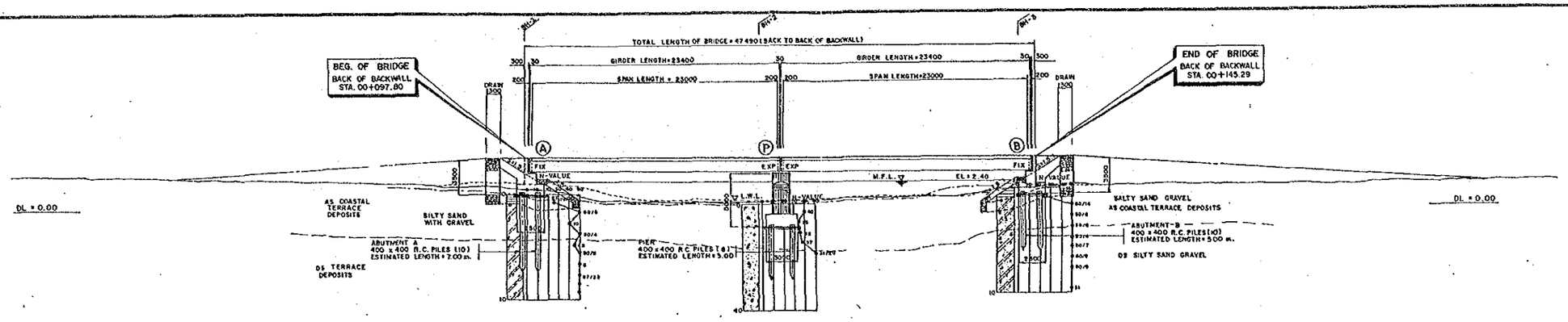
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.		SHEET NO.
04.07b	TAN AGAN BRIDGE PLAN AND PROFILE	50/56

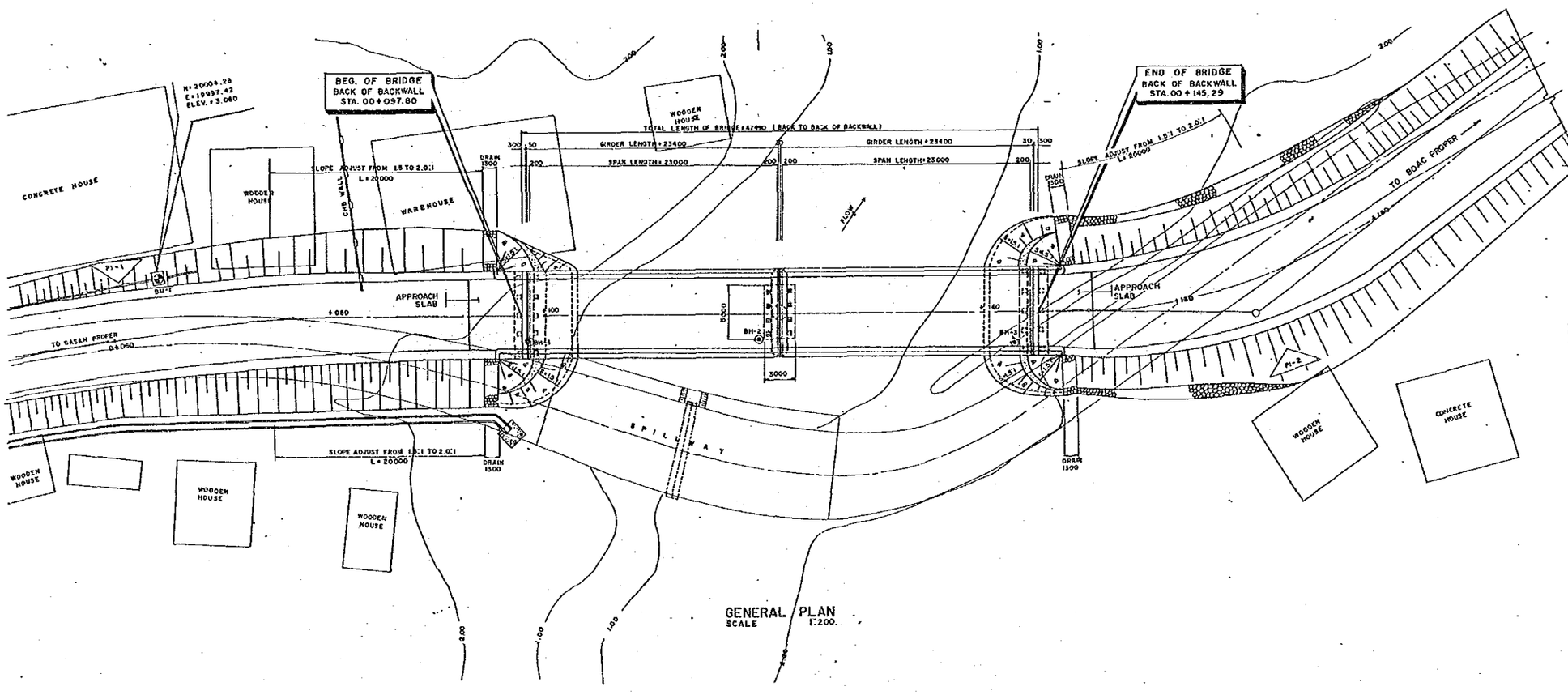


P.I. NO.	P.I. STATION	INTERSECTION ANGLE Δ	DISTANCE	AZIMUTH	COORDINATES NORTHING	COORDINATES EASTING	ELEMENTS OF CURVE R	T	LC	E	e	W	V(kph)
			120.90	165°20'17"									
1st App.	101090.90		37.49	165°20'17"	9991.20	10002.30	NO ELEMENTS OF CURVE						40
2nd APP.	101128.39		121.61	165°20'17"	10027.47	9992.81	NO ELEMENTS OF CURVE						40

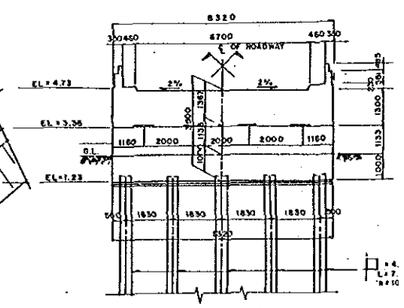




GENERAL ELEVATION
SCALE 1:200 m



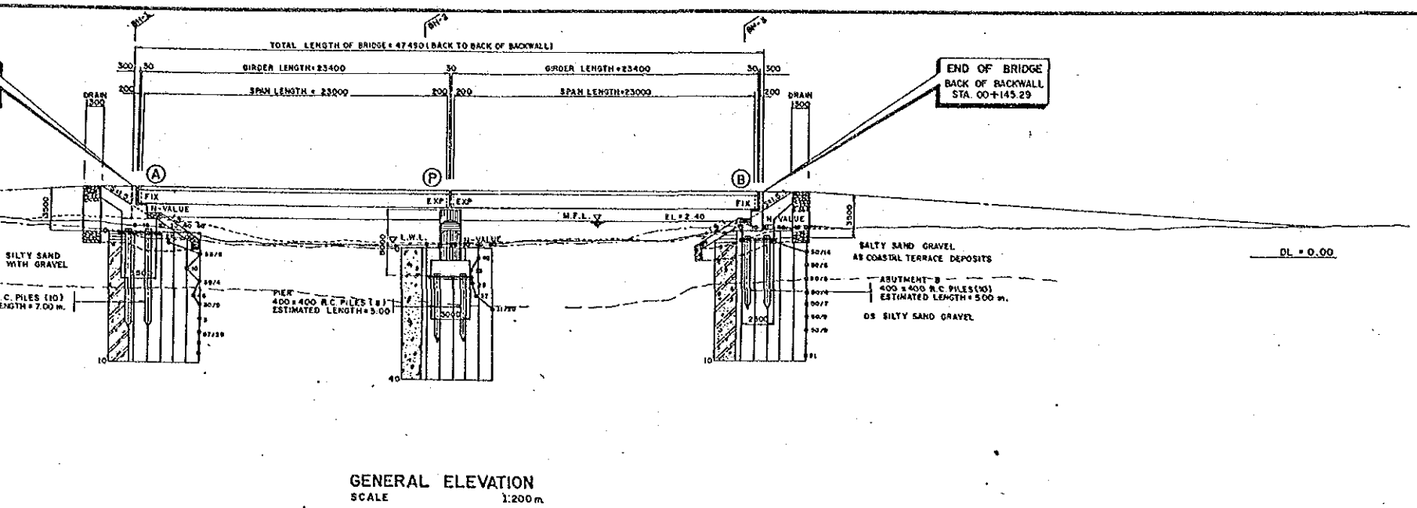
GENERAL PLAN
SCALE 1:200



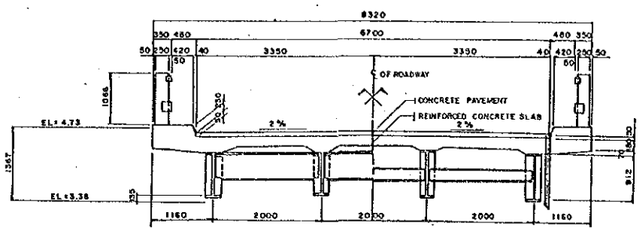
SUBSTI
SCALE

THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

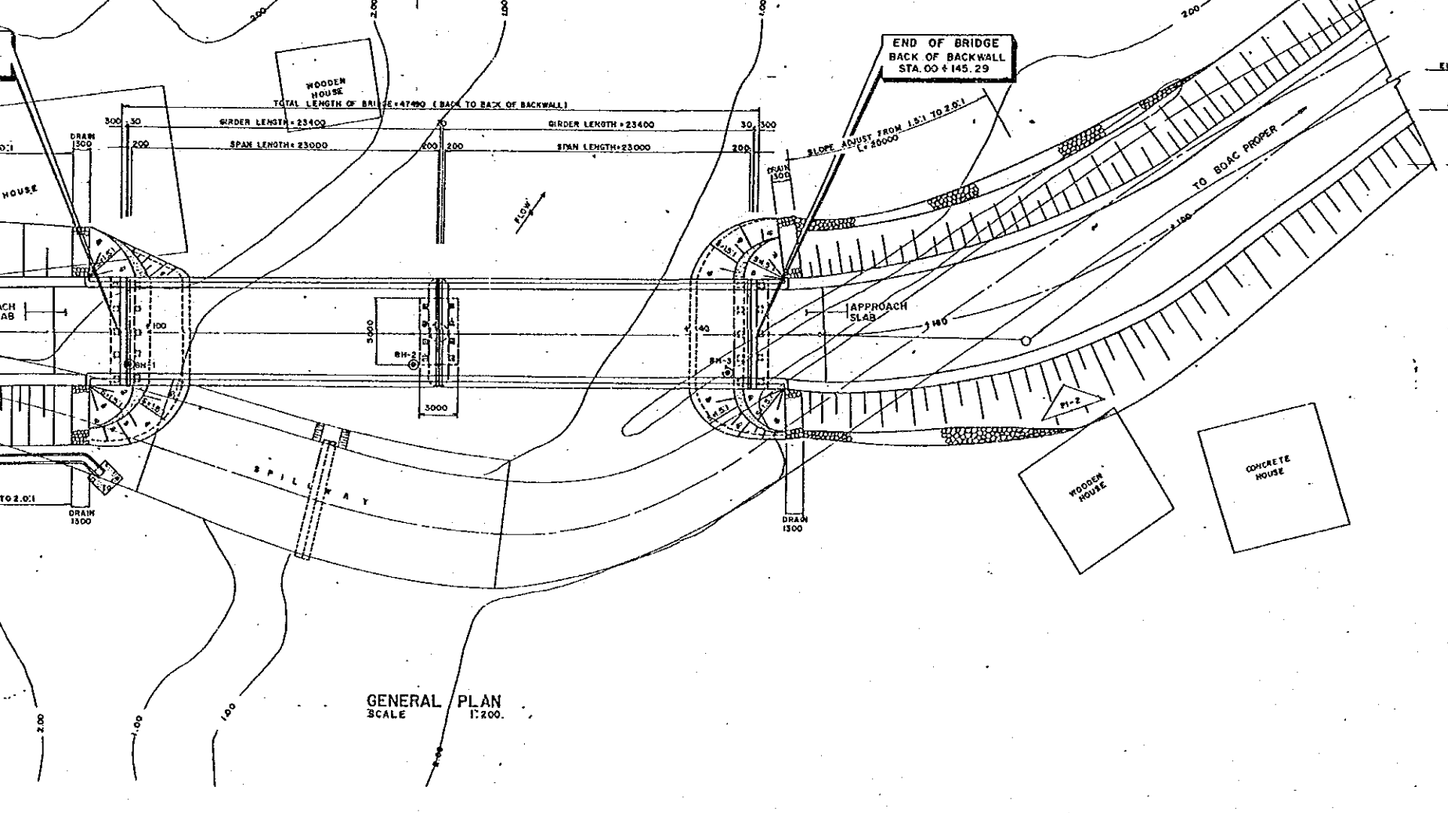
BRIDGE NO.		SHEET NO.
04-10b-2	IHATUB BRIDGE km. 116 + 832.85	51/56



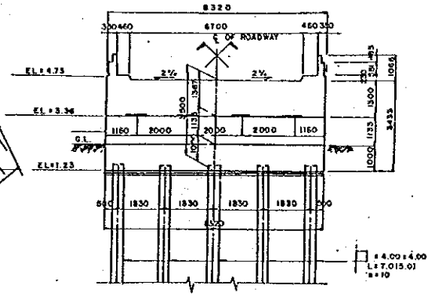
GENERAL ELEVATION
SCALE 1:200 m.



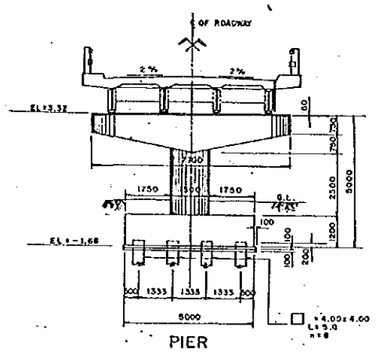
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



GENERAL PLAN
SCALE 1:200.

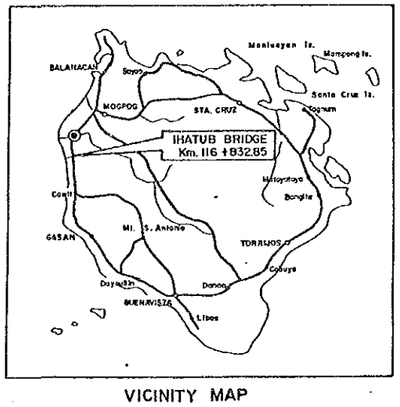


ABUTMENT



PIER

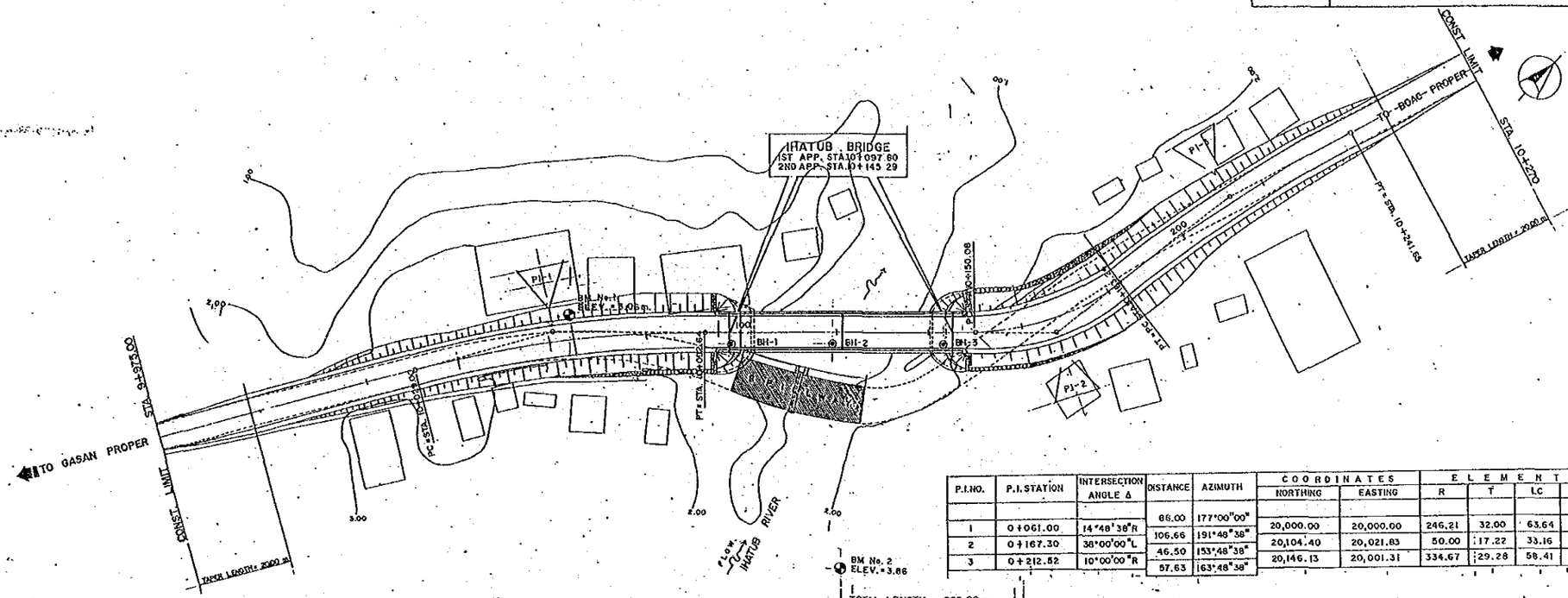
SUBSTRUCTURE CROSS SECTION
SCALE 1:100



VICINITY MAP

THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.		SHEET NO.
04-10b-2	IHATUB BRIDGE PLAN AND PROFILE	52/56



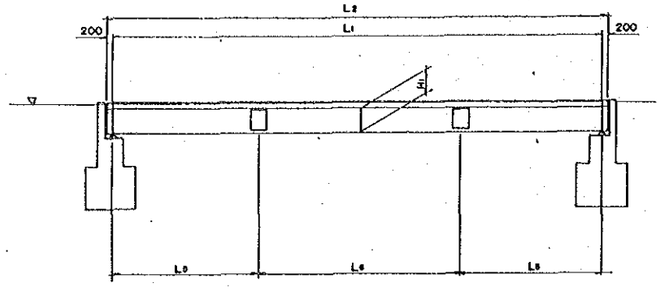
P.I.NO.	P.I. STATION	INTERSECTION ANGLE Δ	DISTANCE	AZIMUTH	COORDINATES NORTHING	COORDINATES EASTING	ELEMENTS OF CURVE R	T	LC	E	e	W	V (kph)
			86.00	177°00'00"									
1	0+061.00	14°48'38"R	106.66	191°48'38"	20,000.00	20,000.00	246.21	32.00	63.64	2.07	0.02	.0	40
2	0+167.30	38°00'00"L	46.50	153°48'38"	20,104.40	20,021.83	50.00	17.22	33.16	2.88	0.025	0.75	40
3	0+212.82	10°00'00"R	57.63	163°48'38"	20,146.13	20,001.31	334.67	29.28	58.41	1.28	0.02	0	40

BASIC STRUCTURAL PLAN OF BRIDGES

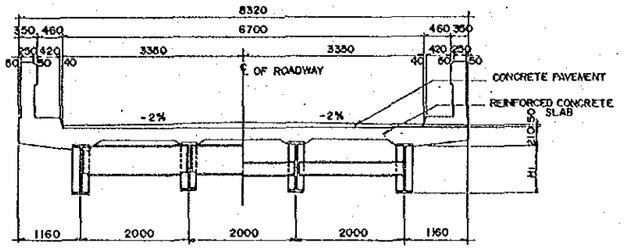
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP I)

BRIDGE NO.	BASIC STRUCTURAL PLAN OF BRIDGES	SHEET NO.
ALL BRIDGES		53/56

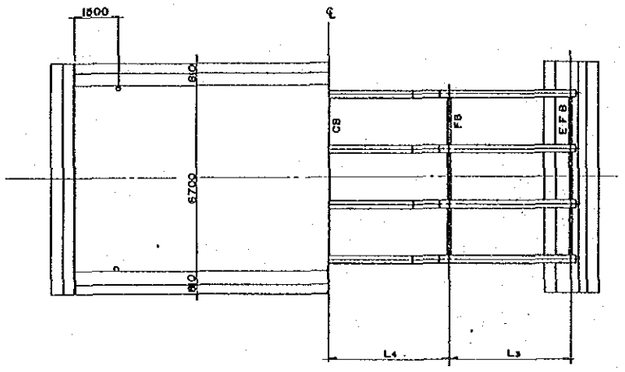
GENERAL ELEVATION (SPAN L=15,18,20,21,22,23 m)
SCALE 1:100



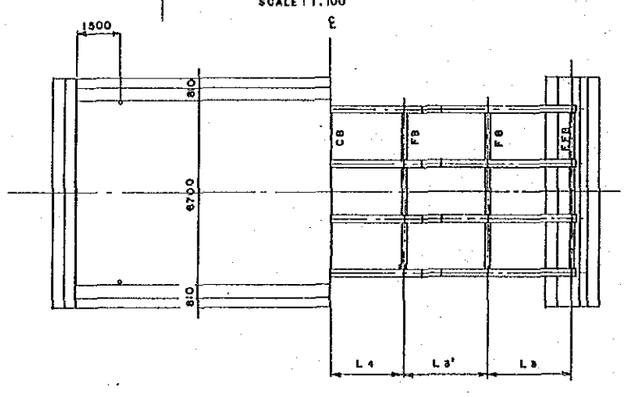
SUPERSTRUCTURE CROSS SECTION
SCALE 1:50



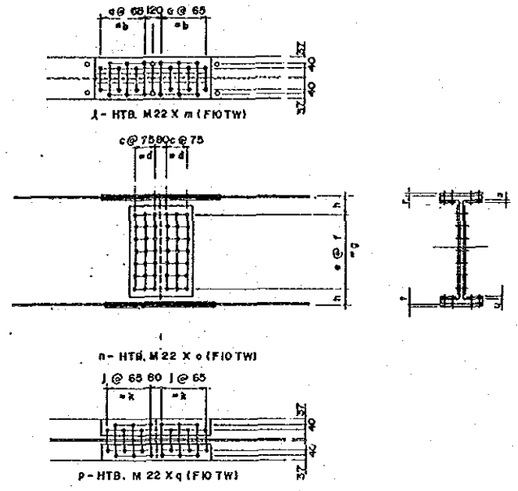
GENERAL PLAN (SPAN L=15,18,20,21,22,23 m)
SCALE 1:100



GENERAL PLAN (SPAN L=24 m)
SCALE 1:100



JOINT OF GIRDER (SMA50AP)
SCALE 1:20



CROSS BEAM SPACING

SPAN (L)	L_2	L_3 (L_3')	L_4	L_5	L_6	H_1
15000	15400	3800	4000	4800	6000	700
18000	18400	4800	4800	5300	7400	782
20000	20400	5000	5000	6000	8000	882
21000	21400	6000	5300	6300	8000	900
22000	22400	5500	5600	6800	8400	900
23000	23400	5800	6000	7500	8000	912
24000	24400	4200(4250)	5650	7950	8500	912

QUALITY OF STEEL BRIDGE

ORDINARY STEEL

BRIDGE NO.	NAME
03.04	TIBBE BRIDGE
03.08	PIAS BRIDGE
04.18e	BAGONG POOK BRIDGE
04.19e	PALAYAN BRIDGE
04.21e	TAMAK BRIDGE
04.22e	STO. NIÑO BRIDGE
04.23e	DEL PILAR BRIDGE
04.09b	MARAMLEG BRIDGE

WEATHERING STEEL

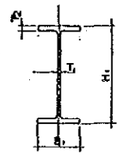
BRIDGE NO.	NAME
03.01	PANGULIRANIN BRIDGE
03.06	BALASING BRIDGE
03.11	PULO BRIDGE
03.18	BINDOL BRIDGE
04.01e	SAN JUAN BRIDGE
04.02e	TABON-BATONG BRIDGE
04.04e	CABLATE BRIDGE
04.06e	BUENAVISTA BRIDGE
04.09e	IBABANG BRIDGE
04.10e	PANSIPIT BRIDGE
04.11e	SAN DIEGO BRIDGE
04.16e	PINGIT BRIDGE
04.17e	BALAY BRIDGE
04.18e	MIJARES BRIDGE
04.03b	MARUYUGONG BRIDGE
04.04b	DAKOTON BRIDGE
04.06b	MADALAG BRIDGE
04.08b	PANIQUE BRIDGE
04.10b	DAYXTIN BRIDGE

DIMENSION OF GIRDER

GIRDER SIZE	a	b	c	d	e	f	g	h	j	k	l	m	n	o	p	q	r	s	t	u
H-700	5	325	3	150	5	90	450	123	6	280	24	90	36	75	28	95	10	12	12	16
H-782	5	325	3	150	5	90	540	126	6	325	24	90	42	75	24	80	10	12	12	16
H-890	5	325	3	225	5	90	540	125	6	390	24	88	72	78	28	95	10	12	12	16
H-900	6	290	3	225	8	80	540	130	7	405	20	90	72	78	32	106	12	14	14	22
H-912	9	320	3	325	8	80	540	139	9	390	36	115	72	80	40	120	14	19	19	25

NOTE:
1. FOR SPAN L=24 m, (H-912): m = 120
o = 65
r = 19
s = 25

SECTION OF MAIN GIRDER (SMA50AP)
SCALE 1:20



SPAN	H_1	B_1	T_1	T_2
15 m	700	300	12	24
18 m	782	300	14	22
20 m	890	288	18	23
21 m	900	300	16	28
22 m				
23 m	912	302	18	34
24 m	912	302	18	34

NOTE:
1. MATERIAL AS INDICATED IS FOR WEATHERING STEEL BRIDGE, ORDINARY STEEL BRIDGE MATERIALS SHALL BE SM50YA, SS41 AND F10T FOR BOLTS.

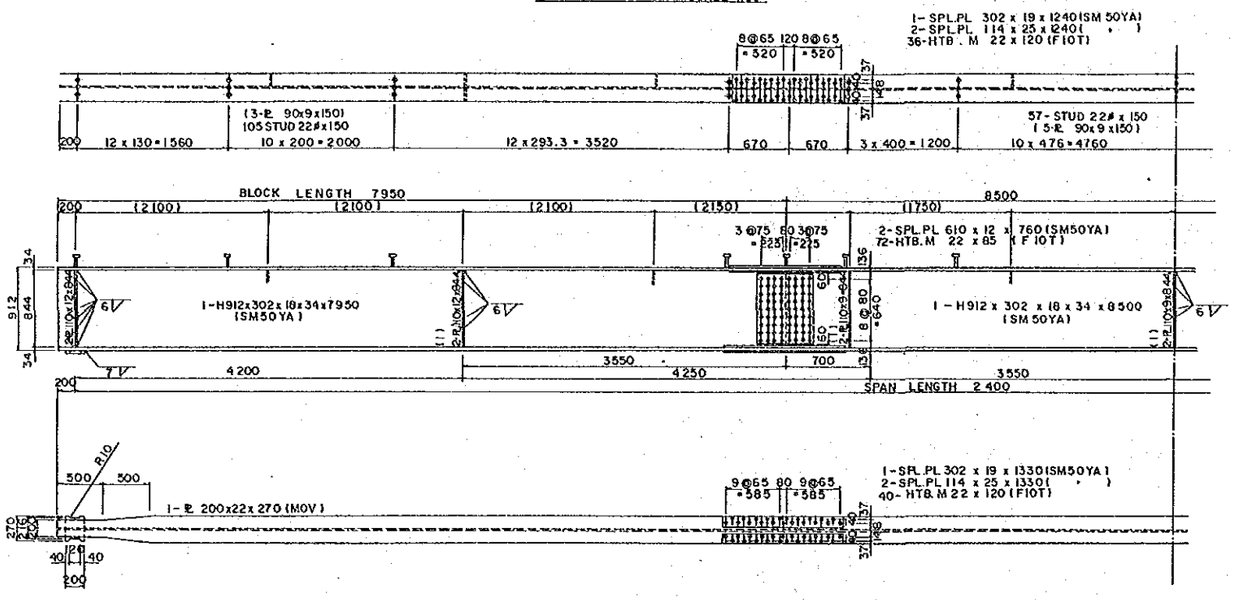
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 2)

BRIDGE NO.	DETAILS OF MAIN GIRDERS	SHEET NO.
ALL BRIDGES		54 / 56

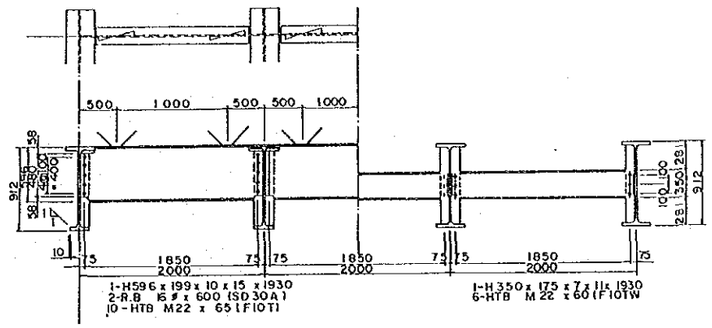
DETAILS OF SUPERSTRUCTURES

L = 24.0 M

MAIN GIRDER SCALE 1:30

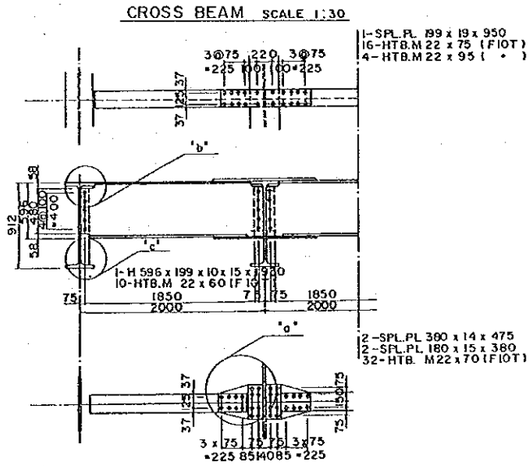


END FLOOR BEAM SCALE 1:30

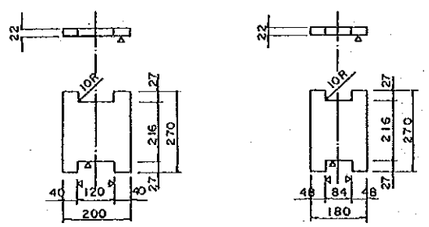


FLOOR BEAM SCALE 1:30

CROSS BEAM SCALE 1:30



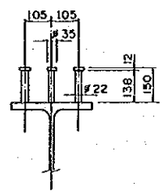
DETAIL OF SOLE PLATE SCALE 1:10



1-SOLE PL 200 x 22 x 270 (MOV)

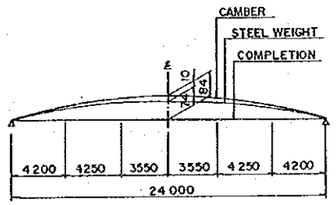
1-SOLE PL 180 x 22 x 270 (FIX)

DETAIL OF STUD SCALE 1:10 (SS41)

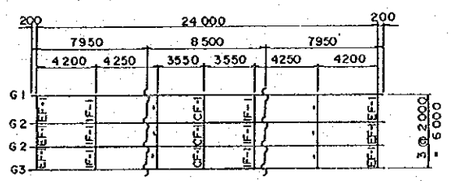


1-STUD ϕ22 x 150

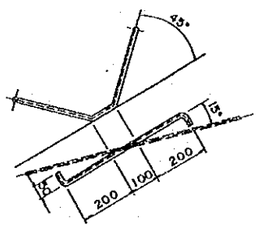
CAMBER



MARKING

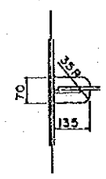


DETAIL OF SLAB ANCHOR SCALE 1:10 (SD30A)

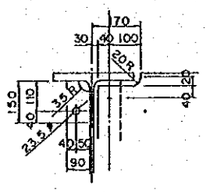


1-DB ϕ16 x 600

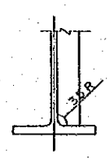
DETAIL OF 'a'



DETAIL OF 'b'



DETAIL OF 'c'

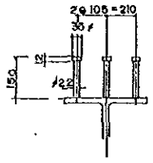


NOTE :
1. MATERIAL NOT SPECIFIED IS SS41
2. DIMENSIONS OF GIRDER G1, G3 ARE SHOWN IN( )

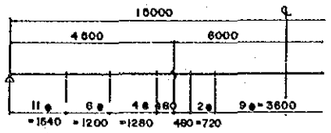
DETAILS OF CROSS BEAMS

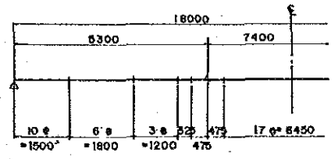
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 1)

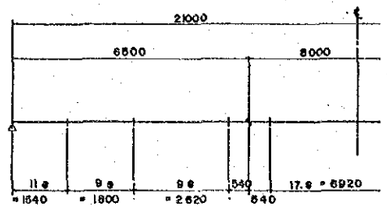
BRIDGE NO	DETAILS OF CROSS BEAMS	SHEET NO
ALL BRIDGES		55/56

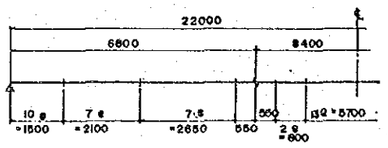


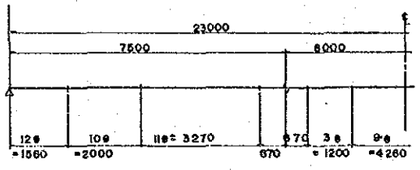
STUD BOLT ARRANGEMENT



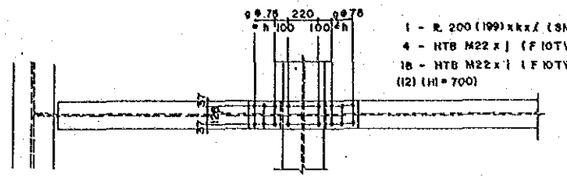


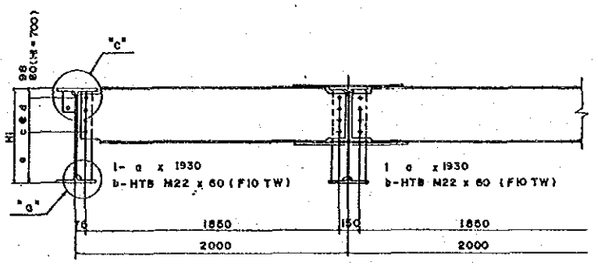


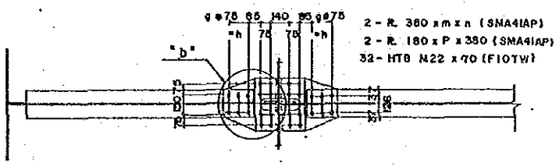




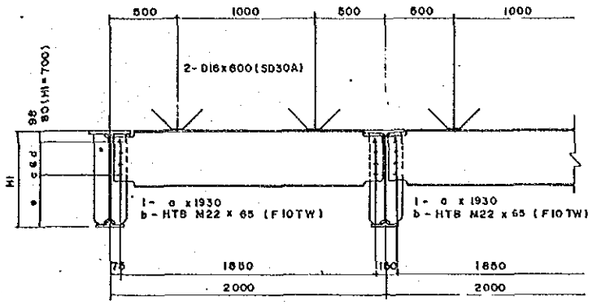
DETAIL OF SOLE PLATE (SMA41AP)
SCALE 1:10



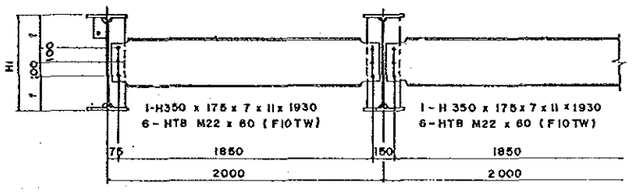




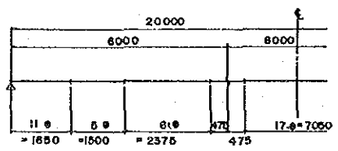
CROSS BEAM
SCALE 1:20

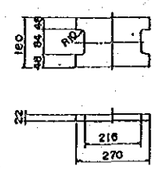


END FLOOR BEAM
SCALE 1:20

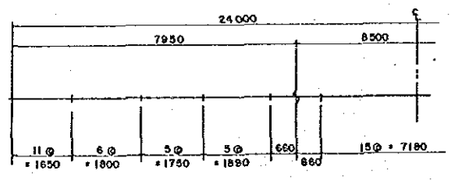


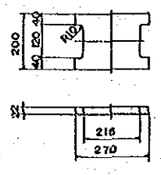
FLOOR BEAM
SCALE 1:20





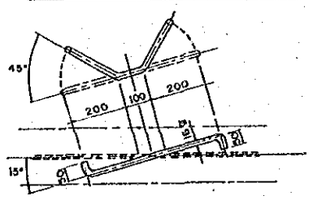
FIX TYPE



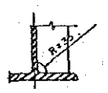


MOVE TYPE

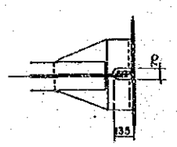
DETAIL OF SLAB ANCHOR SCALE 1:10



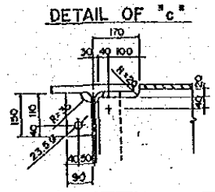
DETAIL OF "a"



DETAIL OF "b"



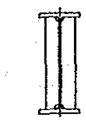
DETAIL OF "c"

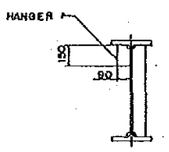


CROSS BEAM
SCALE 1:20

SPAN	a	b	c	d	e	f	g	h	i	j	k	l	m	n	p	q	H
15 m	H- 400 x 200 x 8 x 13	4	3	80	280	250	2	150	70	80	14	600	9	400	13	55	700
18 m					294	288											792
20m	H- 596 x 199 x 10 x 15	5	4	100	392	315	3	225	75	95	19	950	14	475	15	70	890
21 m					402	350											900
22 m					402	350											900
23 m					414	356											912
24m					414	356											912

DETAIL OF STIFFNER
SCALE 1:20





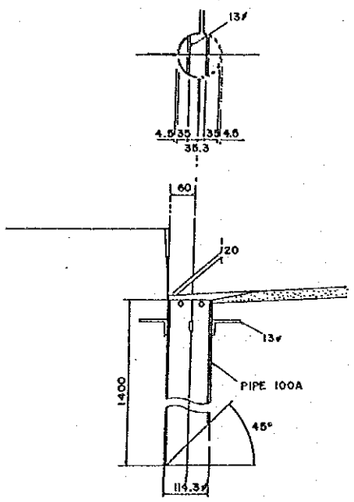
GIRDER SIZE	END FLOOR BEAM T	CROSS BEAM FLOOR BEAM T	L
H - 700	9	9	652
H - 792	9	9	748
H - 890	9	9	844
H - 900	12	9	844
H - 912	12	9	946

NOTES:
1. MATERIAL AS INDICATED IS FOR WEATHERING STEEL BRIDGE, ORDINARY STEEL BRIDGE MATERIAL SHALL BE SM50YA, SS41, AND F10T FOR BOLTS.

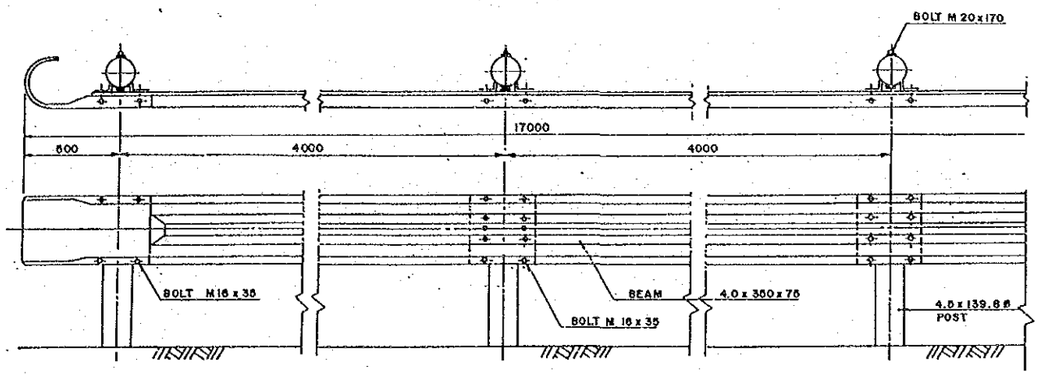
THE BASIC DESIGN STUDY ON THE PROJECT
FOR CONSTRUCTING BRIDGES ALONG RURAL ROADS (PHASE III, GROUP 1)

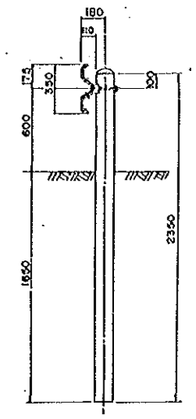
BRIDGE NO.		SHEET NO.
ALL BRIDGES	DETAIL OF SHOES, DRAIN BOX, GUARD RAIL	56/56

DRAIN

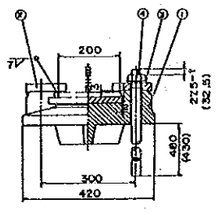


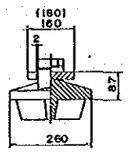
GUARD RAIL SS41



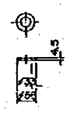


SHOES

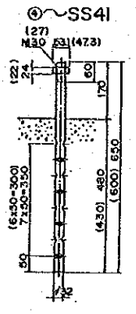




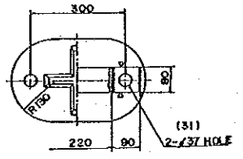
③～SS41



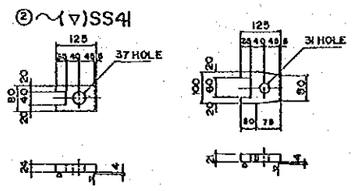
④～SS41



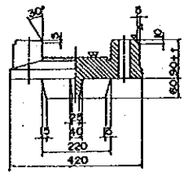
①～(▽·▽▽) SC46



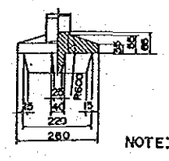
②～(▽)SS41



FIX



MOV



L	t
15	24
16	22
20	23
21, 22	28
23, 24	34

NOTE: DIMENSION OF MOVABLE BEARING ARE SHOWN IN ( ).

MARKING