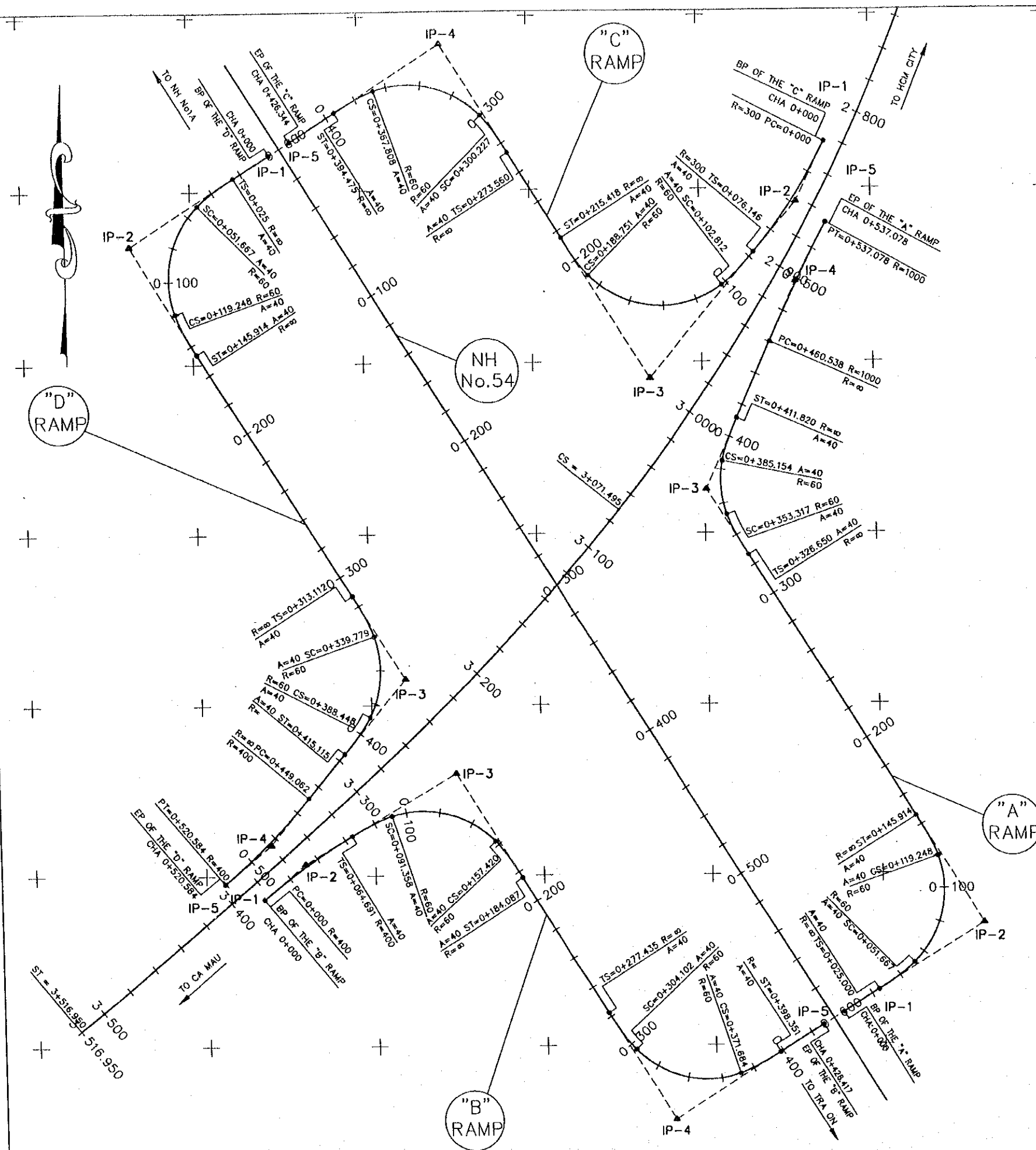


P1/IC2 INTERCHANGE NO.2 (NH NO.54)

DESIGN ELEMENT OF HORIZONTAL ALIGNMENT

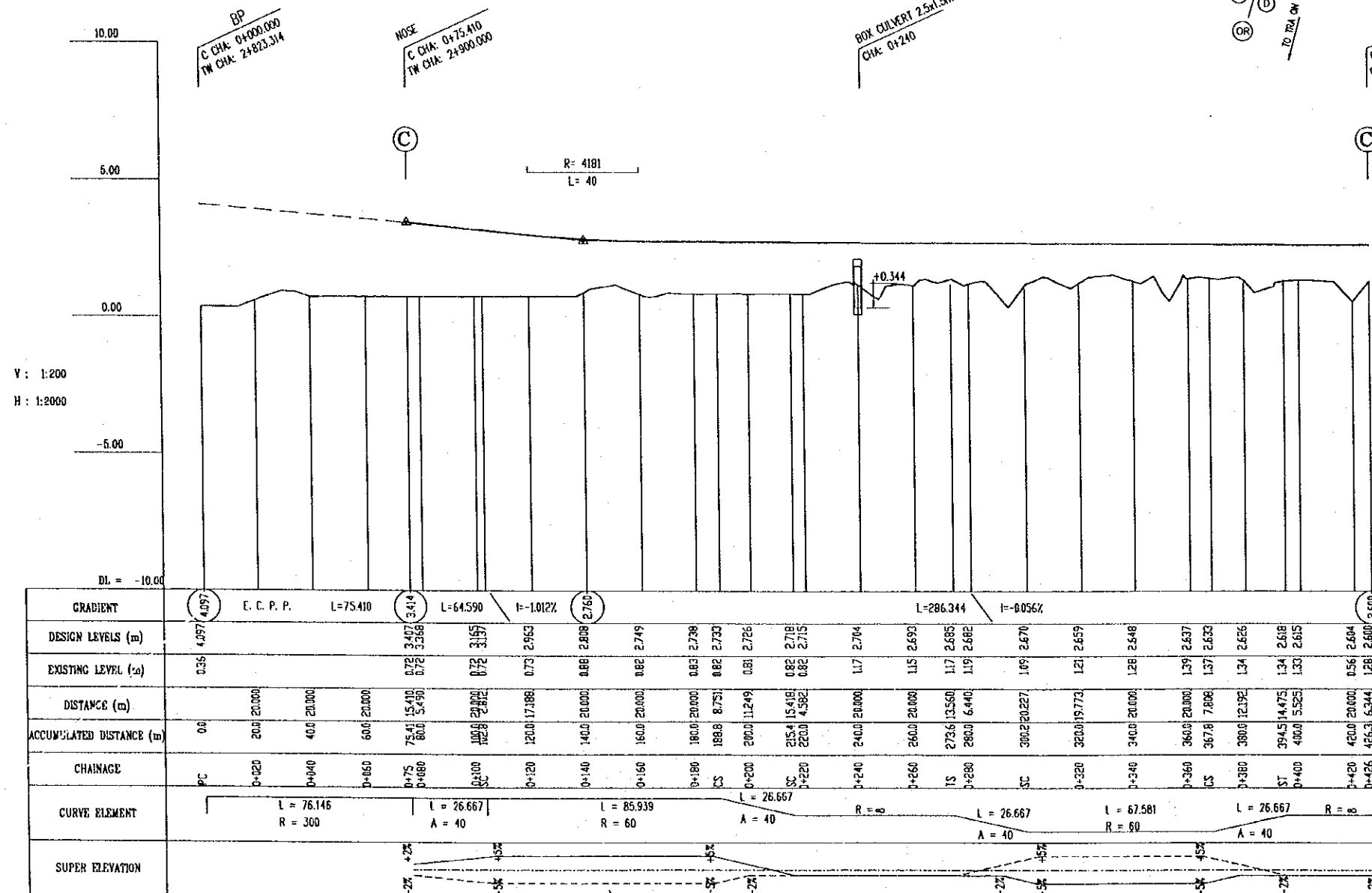
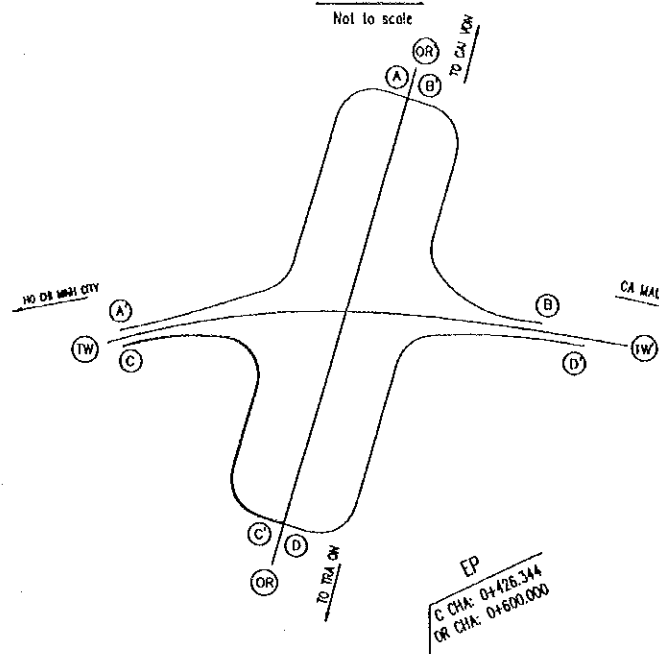


RAMP	IP No	IA	IP CHA	Point	Pnt CHA	Northing	Easting	Element	Direction	Length(m)	IP Distance	Azimuth	
D	IP-1	-	0+000.000	BP-A	0+000.000	1 111 418.603	591 375.410					58° 09' 09"	
				TS-2	0+025.000	1 111 431.794	591 396.647	Tangent	-	25.000			
				SC-2	0+051.667	1 111 447.468	591 418.149	A=40.000	Left	26.667			
	IP-2	90° 00' 00"	0+098.804			1 111 470.738	591 459.340				98.804	328° 09' 09"	
				CS-2	0+019.248	1 111 509.852	591 432.726	R=60.000	Left	67.581			
				ST-2	0+145.914	1 111 533.431	591 420.397	A=40.000	Left	26.667			
	IP-3	55° 52' 00"	0+372.036			1 111 725.511	591 301.081				299.926	24° 01' 09"	
				CS-3	0+385.154	1 111 741.929	591 310.552	R=60.000	Right	31.837			
				ST-3	0+411.820	1 111 766.967	591 319.555	A=40.000	Right	26.667			
	C	IP-4	4° 23' 08"	0+498.827			1 111 846.440	591 354.971			132.393	28° 24' 16"	
					PT-4	0+537.078	1 111 880.119	591 373.184	R=1000	Right	76.540		
					EP-A	0+537.078	1 111 880.119	591 373.184				38.289	28° 24' 16"
IP-5		-	0+537.078	BP-B	0+000.000	1 111 486.139	591 033.670					50° 20' 17"	
				PC-2	0+000.000	1 111 486.139	591 033.670						
				PT-2	0+064.619	1 111 523.230	591 086.586	R=400.000	Right	64.691			
B		IP-1	-	0+000.000	BP-B	0+000.000	1 111 486.139	591 033.670					50° 20' 17"
					PC-2	0+000.000	1 111 486.139	591 033.670					
					PT-2	0+064.619	1 111 523.230	591 086.586					
		IP-2	9° 15' 59"	0+032.416			1 111 506.829	591 058.625				32.416	59° 36' 16"
					CS-3	0+091.358	1 111 534.959	591 110.470	A=40.000	Right	26.667		
					ST-3	0+184.087	1 111 498.398	591 187.086	A=40.000	Right	26.667		
	IP-3	88° 32' 58"	0+136.983			1 111 559.808	591 148.942				104.708	148° 09' 14"	
				CS-3	0+157.420	1 111 519.900	591 171.413	R=60.000	Right	66.062			
				ST-3	0+277.435	1 111 419.102	591 235.340	A=40.000	Right	26.667			
	IP-4	90° 00' 05"	0+351.241			1 111 397.599	591 252.013	A=40.000	Left	26.667			
				CS-4	0+371.681	1 111 383.021	591 314.399	R=60.000	Left	67.582			
				ST-4	0+398.351	1 111 395.350	591 337.978	A=40.000	Left	26.667			
A	IP-5	-	0+428.417	EP-B	0+428.417	1 111 411.215	591 363.518	Tangent	-	30.067	103.872	58° 09' 09"	
				BP-C	0+000.000	1 111 926.703	591 372.954						
				PC-2	0+000.000	1 111 926.703	591 372.954						
	IP-1	-	0+000.000	BP-C	0+000.000	1 111 926.703	591 372.954						
				PC-2	0+000.000	1 111 926.703	591 372.954						
				PT-2	0+076.146	1 111 863.267	591 331.205	R=300	Right	76.146			
	IP-2	14° 32' 34"	0+036.278			1 111 892.321	591 356.126				38.278	220° 37' 19"	
				TS-3	0+076.146	1 111 863.267	591 331.205						
				SC-3	0+102.812	1 111 844.408	591 312.434	A=40.000	Right	26.667			
	IP-3	107° 31' 50"	0+172.005			1 111 790.508	591 268.794				134.138	328° 09' 09"	
				CS-3	0+188.751	1 111 850.434	591 233.886	R=60.000	Right	85.939			
				ST-3	0+215.418	1 111 871.936	591 218.213	A=40.000	Right	26.667			
IP-4	90° 00' 00"	0+347.365			1 111 921.326	591 187.533	A=40.000	Left	26.667				
			CS-4	0+367.808	1 111 957.405	591 109.475	R=60.000	Left	67.581				
			ST-4	0+394.475	1 111 945.076	591 085.896	A=40.000	Left	26.667				
D	IP-5	-	0+426.344	EP-C	0+394.475	1 111 928.260	591 058.825			31.859	105.673	238° 09' 09"	
				BP-D	0+000.000	1 111 920.872	591 046.933						
				TS-2	0+025.000	1 111 907.681	591 025.896	Tangent	-	25.000			
	IP-1	-	0+000.000	BP-D	0+000.000	1 111 920.872	591 046.933						
				TS-2	0+025.000	1 111 907.681	591 025.896	A=40.000	Left	26.667			
				SC-2	0+051.667	1 111 892.007	591 004.194	A=40.000	Left	26.667			
	IP-2	90° 00' 00"	0+098.804			1 111 868.737	590 963.003				98.804	148° 09' 09"	
				CS-2	0+119.248	1 111 829.623	590 989.617	R=60.000	Left	67.581			
				ST-2	0+145.914	1 111 806.044	591 001.946	A=40.000	Left	167.198			
	IP-3	71° 56' 27"	0+370.326			1 111 664.017	591 090.170						
				CS-3	0+339.779	1 111 640.438	591 102.499	A=40.000	Right	48.669			
				ST-3	0+415.115	1 111 571.647	591 083.511	A=40.000	Right	26.667			
IP-4	10° 14' 41"	0+484.919			1 111 518.247	591 038.555				127.018	230° 20' 17"		
			PT-4	0+520.584	1 111 495.361	591 010.952	R=400.000	Right	71.522				
			EP-0	0+520.584	1 111 495.361	591 010.952				35.857	230° 20' 17"		
MINUS	IP-1	-	0+000.000	BP-OR	0+000.000	1 111 924.566	591 052.879					148° 09' 09"	
	IP-2	-	0+600.000	EP-OR	0+600.000	1 111 414.892	591 369.474	Tangent	-	600.000	600.000	148° 09' 09"	

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	K. Nemoto	K. Nakai	K. Enomoto	INTERCHANGE 2 ALIGNMENT LAYOUT AND GEOMETRIC DATA SCALE 1:2500	P1/IC2/0010
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

KEY - PLAN

Not to scale

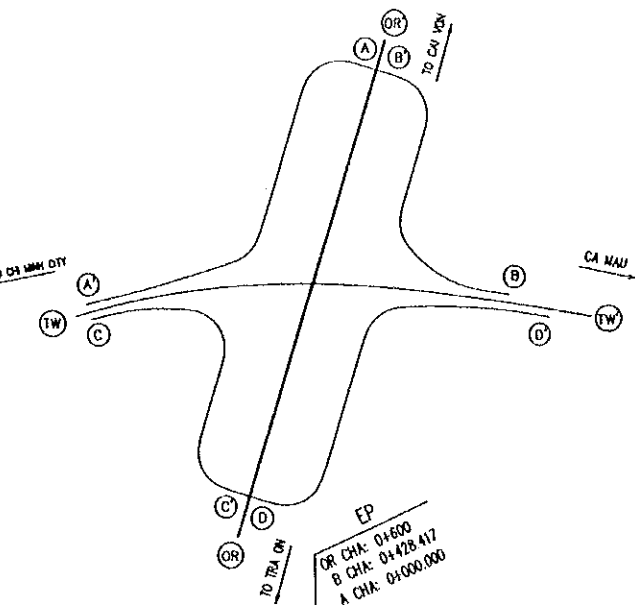


NOTES:
 - SCALE AS SHOWN.
 - ALL UNITS ARE IN METERS,
 UNLESS OTHERWISE INDICATED.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	K. Nemoto	K. Nakai	K. Enomoto	INTERCHANGE 2 PROFILE OF "C" RAMP	P1/IC2/0050
				NAME	K. Nemoto	K. Nakai		
				SIGNATURE	<i>K. Nemoto</i>	<i>K. Nakai</i>		
				DATE	20/9/2000	29/9/2000	5/10/2000	

KEY - PLAN

Not to scale



THROUGH WAY
OR CHA: 04-300
TW CHA: 3+123.247

R= 1068 L= 60 R= 2500 L= 300 R= 1068 L= 60

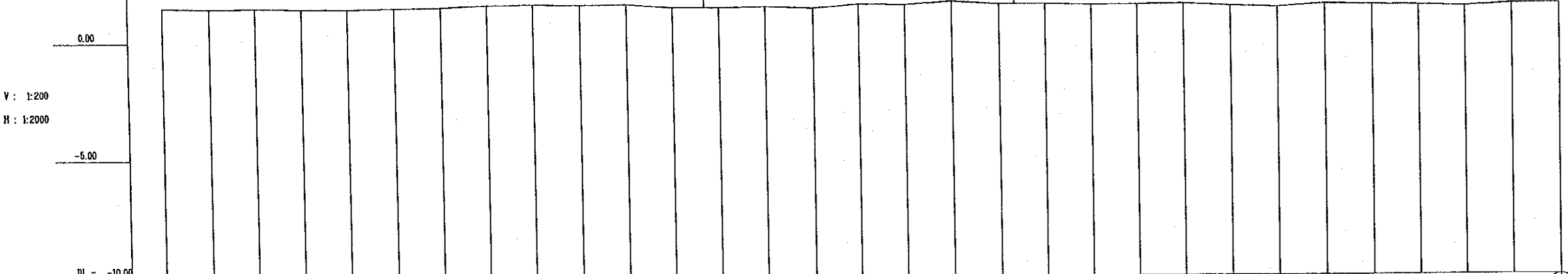
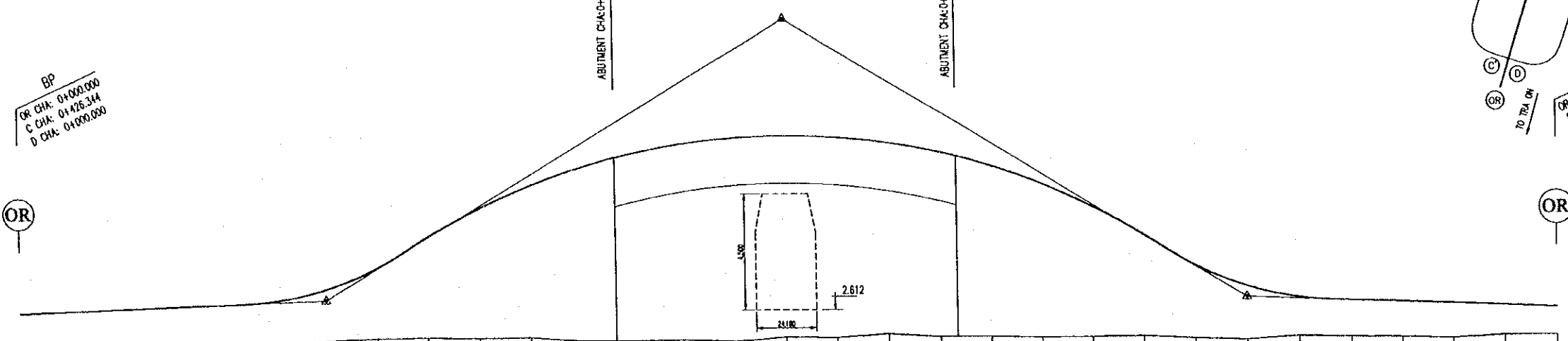
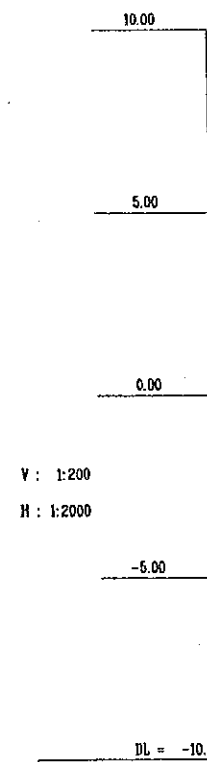
FLYOVER BRIDGE L = 132.700

ABUTMENT CHA: 0+233.650

ABUTMENT CHA: 0+365.350

BP
OR CHA: 0+000.000
C CHA: 0+426.344
D CHA: 0+000.000

EP
OR CHA: 0+600
B CHA: 0+428.417
A CHA: 0+000.000

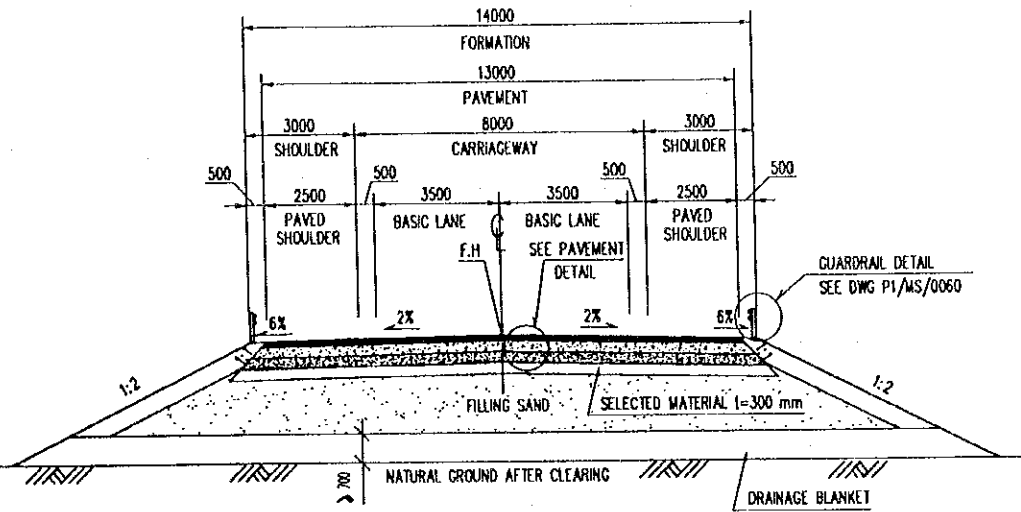


GRADIENT	L=120.000 / I=0.375%										L=180.000 / I=6.000%										L=180.000 / I=6.000%										L=120.000 / I=0.375%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
DESIGN LEVELS (m)	2.600	2.675	2.750	2.825	2.900	3.022	3.150	3.274	3.400	3.524	3.650	3.774	3.900	4.024	4.150	4.274	4.400	4.524	4.650	4.774	4.900	5.024	5.150	5.274	5.400	5.524	5.650	5.774	5.900	6.024	6.150	6.274	6.400	6.524	6.650	6.774	6.900	7.024	7.150	7.274	7.400	7.524	7.650	7.774	7.900	8.024	8.150	8.274	8.400	8.524	8.650	8.774	8.900	9.024	9.150	9.274	9.400	9.524	9.650	9.774	9.900	10.024	10.150	10.274	10.400	10.524	10.650	10.774	10.900	11.024	11.150	11.274	11.400	11.524	11.650	11.774	11.900	12.024	12.150	12.274	12.400	12.524	12.650	12.774	12.900	13.024	13.150	13.274	13.400	13.524	13.650	13.774	13.900	14.024	14.150	14.274	14.400	14.524	14.650	14.774	14.900	15.024	15.150	15.274	15.400	15.524	15.650	15.774	15.900	16.024	16.150	16.274	16.400	16.524	16.650	16.774	16.900	17.024	17.150	17.274	17.400	17.524	17.650	17.774	17.900	18.024	18.150	18.274	18.400	18.524	18.650	18.774	18.900	19.024	19.150	19.274	19.400	19.524	19.650	19.774	19.900	20.024	20.150	20.274	20.400	20.524	20.650	20.774	20.900	21.024	21.150	21.274	21.400	21.524	21.650	21.774	21.900	22.024	22.150	22.274	22.400	22.524	22.650	22.774	22.900	23.024	23.150	23.274	23.400	23.524	23.650	23.774	23.900	24.024	24.150	24.274	24.400	24.524	24.650	24.774	24.900	25.024	25.150	25.274	25.400	25.524	25.650	25.774	25.900	26.024	26.150	26.274	26.400	26.524	26.650	26.774	26.900	27.024	27.150	27.274	27.400	27.524	27.650	27.774	27.900	28.024	28.150	28.274	28.400	28.524	28.650	28.774	28.900	29.024	29.150	29.274	29.400	29.524	29.650	29.774	29.900	30.024	30.150	30.274	30.400	30.524	30.650	30.774	30.900	31.024	31.150	31.274	31.400	31.524	31.650	31.774	31.900	32.024	32.150	32.274	32.400	32.524	32.650	32.774	32.900	33.024	33.150	33.274	33.400	33.524	33.650	33.774	33.900	34.024	34.150	34.274	34.400	34.524	34.650	34.774	34.900	35.024	35.150	35.274	35.400	35.524	35.650	35.774	35.900	36.024	36.150	36.274	36.400	36.524	36.650	36.774	36.900	37.024	37.150	37.274	37.400	37.524	37.650	37.774	37.900	38.024	38.150	38.274	38.400	38.524	38.650	38.774	38.900	39.024	39.150	39.274	39.400	39.524	39.650	39.774	39.900	40.024	40.150	40.274	40.400	40.524	40.650	40.774	40.900	41.024	41.150	41.274	41.400	41.524	41.650	41.774	41.900	42.024	42.150	42.274	42.400	42.524	42.650	42.774	42.900	43.024	43.150	43.274	43.400	43.524	43.650	43.774	43.900	44.024	44.150	44.274	44.400	44.524	44.650	44.774	44.900	45.024	45.150	45.274	45.400	45.524	45.650	45.774	45.900	46.024	46.150	46.274	46.400	46.524	46.650	46.774	46.900	47.024	47.150	47.274	47.400	47.524	47.650	47.774	47.900	48.024	48.150	48.274	48.400	48.524	48.650	48.774	48.900	49.024	49.150	49.274	49.400	49.524	49.650	49.774	49.900	50.024	50.150	50.274	50.400	50.524	50.650	50.774	50.900	51.024	51.150	51.274	51.400	51.524	51.650	51.774	51.900	52.024	52.150	52.274	52.400	52.524	52.650	52.774	52.900	53.024	53.150	53.274	53.400	53.524	53.650	53.774	53.900	54.024	54.150	54.274	54.400	54.524	54.650	54.774	54.900	55.024	55.150	55.274	55.400	55.524	55.650	55.774	55.900	56.024	56.150	56.274	56.400	56.524	56.650	56.774	56.900	57.024	57.150	57.274	57.400	57.524	57.650	57.774	57.900	58.024	58.150	58.274	58.400	58.524	58.650	58.774	58.900	59.024	59.150	59.274	59.400	59.524	59.650	59.774	59.900	60.024	60.150	60.274	60.400	60.524	60.650	60.774	60.900	61.024	61.150	61.274	61.400	61.524	61.650	61.774	61.900	62.024	62.150	62.274	62.400	62.524	62.650	62.774	62.900	63.024	63.150	63.274	63.400	63.524	63.650	63.774	63.900	64.024	64.150	64.274	64.400	64.524	64.650	64.774	64.900	65.024	65.150	65.274	65.400	65.524	65.650	65.774	65.900	66.024	66.150	66.274	66.400	66.524	66.650	66.774	66.900	67.024	67.150	67.274	67.400	67.524	67.650	67.774	67.900	68.024	68.150	68.274	68.400	68.524	68.650	68.774	68.900	69.024	69.150	69.274	69.400	69.524	69.650	69.774	69.900	70.024	70.150	70.274	70.400	70.524	70.650	70.774	70.900	71.024	71.150	71.274	71.400	71.524	71.650	71.774	71.900	72.024	72.150	72.274	72.400	72.524	72.650	72.774	72.900	73.024	73.150	73.274	73.400	73.524	73.650	73.774	73.900	74.024	74.150	74.274	74.400	74.524	74.650	74.774	74.900	75.024	75.150	75.274	75.400	75.524	75.650	75.774	75.900	76.024	76.150	76.274	76.400	76.524	76.650	76.774	76.900	77.024	77.150	77.274	77.400	77.524	77.650	77.774	77.900	78.024	78.150	78.274	78.400	78.524	78.650	78.774	78.900	79.024	79.150	79.274	79.400	79.524	79.650	79.774	79.900	80.024	80.150	80.274	80.400	80.524	80.650	80.774	80.900	81.024	81.150	81.274	81.400	81.524	81.650	81.774	81.900	82.024	82.150	82.274	82.400	82.524	82.650	82.774	82.900	83.024	83.150	83.274	83.400	83.524	83.650	83.774	83.900	84.024	84.150	84.274	84.400	84.524	84.650	84.774	84.900	85.024	85.150	85.274	85.400	85.524	85.650	85.774	85.900	86.024	86.150	86.274	86.400	86.524	86.650	86.774	86.900	87.024	87.150	87.274	87.400	87.524	87.650	87.774	87.900	88.024	88.150	88.274	88.400	88.524	88.650	88.774	88.900	89.024	89.150	89.274	89.400	89.524	89.650	89.774	89.900	90.024	90.150	90.274	90.400	90.524	90.650	90.774	90.900	91.024	91.150	91.274	91.400	91.524	91.650	91.774	91.900	92.024	92.150	92.274	92.400	92.524	92.650	92.774	92.900	93.024	93.150	93.274	93.400	93.524	93.650	93.774	93.900	94.024	94.150	94.274	94.400	94.524	94.650	94.774	94.900	95.024	95.150	95.274	95.400	95.524	95.650	95.774	95.900	96.024	96.150	96.274	96.400	96.524	96.650	96.774	96.900	97.024	97.150	97.274	97.400	97.524	97.650	97.774	97.900	98.024	98.150	98.274	98.400	98.524	98.650	98.774	98.900	99.024	99.150	99.274	99.400	99.524	99.650	99.774	99.900	100.024	100.150	100.274	100.400	100.524	100.650	100.774	100.900	101.024	101.150	101.274	101.400	101.524	101.650	101.774	101.900	102.024	102.150	102.274	102.400	102.524	102.650	102.774	102.900	103.024	103.150	103.274	103.400	103.524	103.650	103.774	103.900	104.024	104.150	104.274	104.400	104.524	104.650	104.774	104.900	105.024	105.150	105.274	105.400	105.524	105.650	105.774	105.900	106.024	106.150	106.274	106.400	106.524	106.650	106.774	106.900	107.024	107.150	107.274	107.400	107.524	107.650	107.774	107.900	108.024	108.150	108.274	108.400	108.524	108.650	108.774	108.900	109.024	109.150	109.274	109.400	109.524	109.650	109.774	109.900	110.024	110.150	110.274	110.400	110.524	110.650	110.774	110.900	111.024	111.150	111.274	111.400	111.524	111.650	111.774	111.900	112.024	112.150	112.274	112.400	112.524	112.650	112.774	112.900	113.024	113.150	113.274	113.400	113.524	113.650	113.774	113.900	114.024	114.150	114.274	114.400	114.524	114.650	114.774	114.900	115.024	115.150	115.274	115.400	115.524	115.650	115.774	115.900	116.024	116.150	116.274	116.400	116.524	116.650	116.774	116.900	117.024	117.150	117.274	117.400	117.524	117.650	117.774	117.900	118.024	118.150	118.274	118.400	118.524	118.650	118.774	118.900	119.024	119.150	119.274	119.400	119.524	119.650	119.774	119.900	120.024	120.150	120.274	120.400	120.524	120.650	120.774	120.900	121.024	121.150	121.274	121.400	121.524	121.650	121.774	121.900	122.024	122.150	122.274	122.400	122.524	122.650	122.774	122.900	123.024	123.150	123.274	123.400	123.524	123.650	123.774	123.900	124.024	124.150	124.274	124.400	124.524	124.650	124.774	124.900	125.024	125.150	125.274	125.400	125.524	125.650	125.774	125.900	126.024	126.150	126.274	126.400	126.524	126.650	126.774	126.900	127.024	127.150	127.274	127.400	127.524	127.650	127.774	127.900	128.024	128.150	128.274	128.400	128.524	128.650	128.774	128.900	129.024	129.150	129.274	1

TYPICAL CROSS SECTION

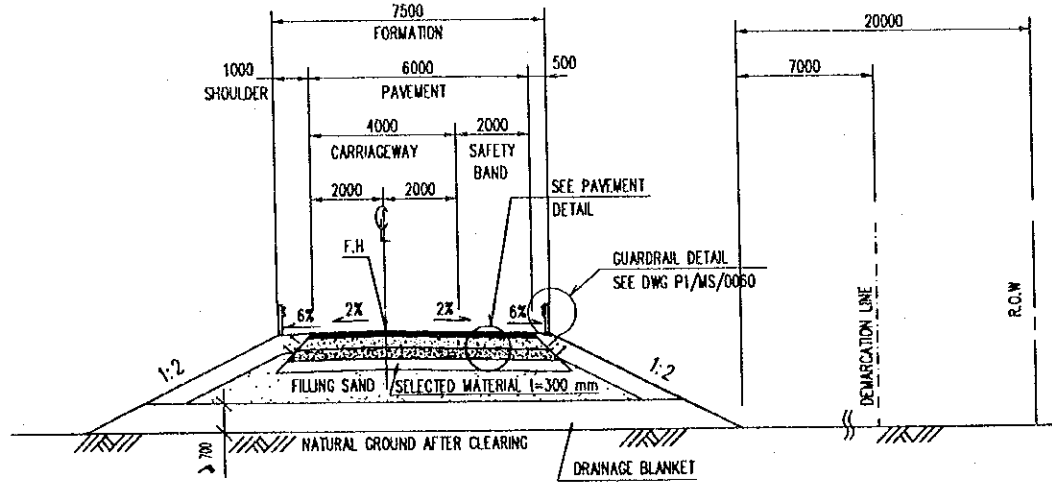
NATIONAL HIGHWAY No.54
EMBANKMENT HEIGHT < 5m

SCALE 1:200



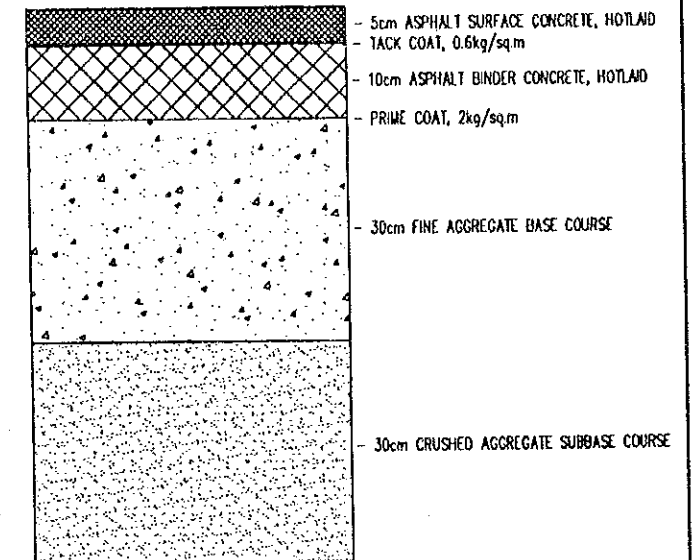
"A", "B", "C", "D" RAMP

SCALE 1:200



PAVEMENT DETAIL

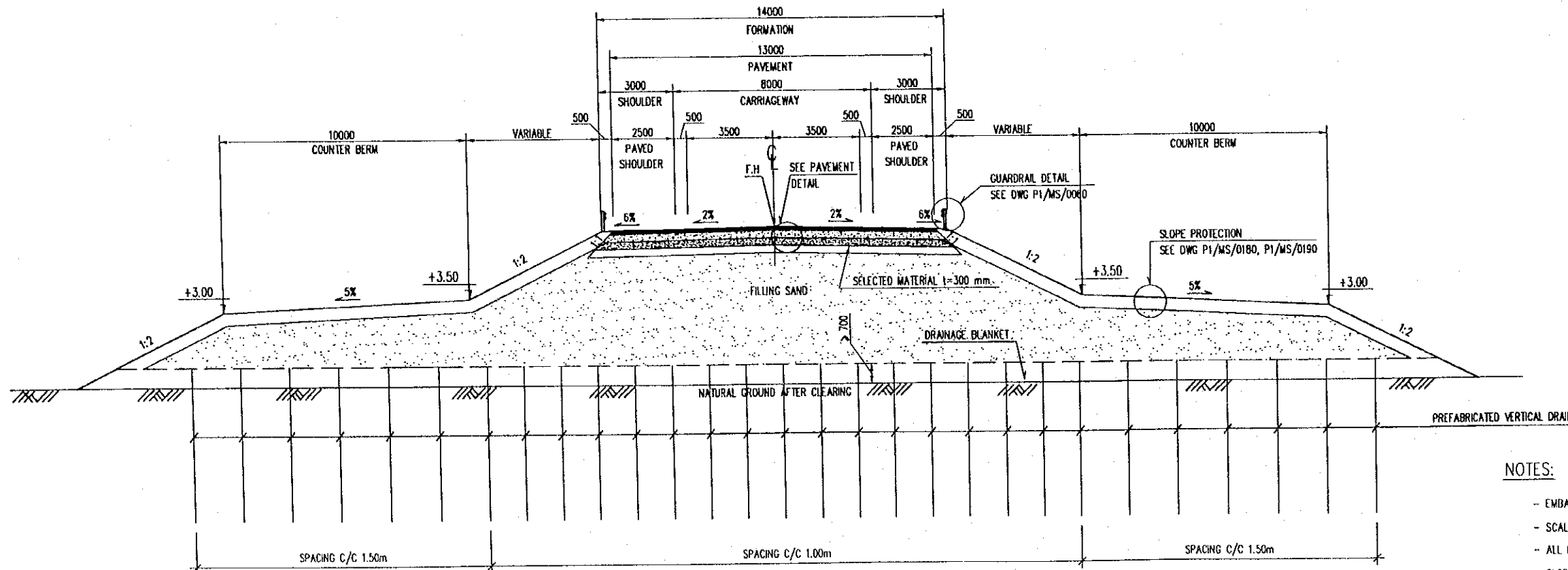
NOT TO SCALE



NATIONAL HIGHWAY No.54

EMBANKMENT HEIGHT >= 5m

SCALE 1:200



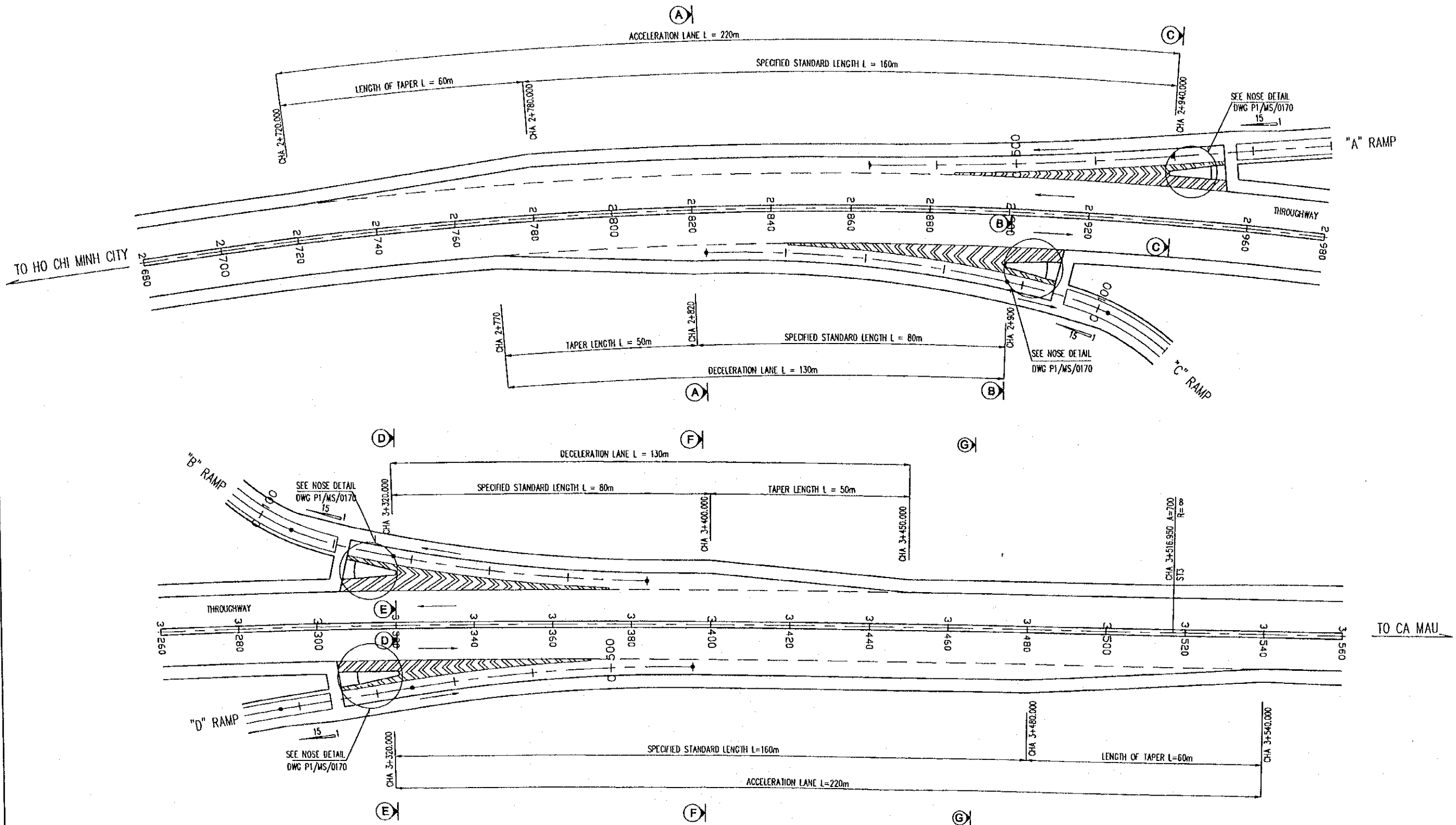
NOTES:

- EMBANKMENT HEIGHT < 3m PVD IS NOT USED.
- SCALE AS SHOWN.
- ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE INDICATED.
- SLOPE PROTECTION SEE DWG P1/MS/0180, P1/MS/0190.
- GUARDRAIL SHOULD BE PLACED WITH EMBANKMENT HEIGHT ≥ 2m

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME K. Nemoto SIGNATURE <i>K. Nemoto</i> DATE 20/9/2000	NAME K. Nakai SIGNATURE <i>K. Nakai</i> DATE 29/9/2000	NAME K. Enomoto SIGNATURE <i>K. Enomoto</i> DATE 5/10/2000	INTERCHANGE 2 TYPICAL CROSS SECTION AND PAVEMENT STRUCTURE	P1/IC2/0080

PLAN

SCALE 1:1000



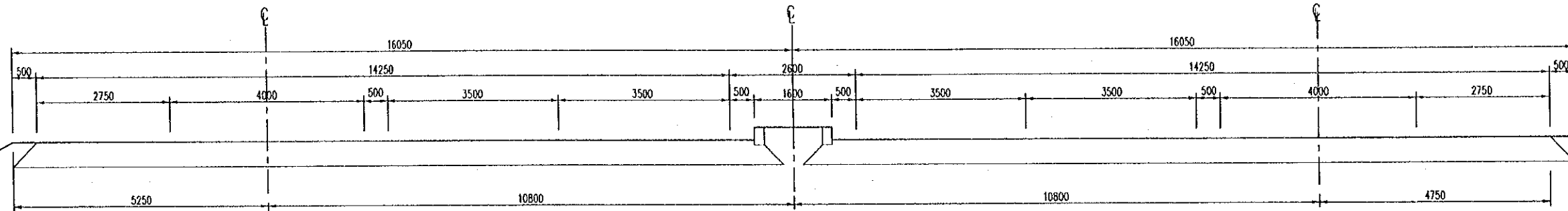
NOTES:
 - SCALE AS SHOWN.
 - ALL DIMENSIONS ARE IN METERS,
 UNLESS OTHERWISE INDICATED.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME K. Nemoto SIGNATURE <i>K. Nemoto</i> DATE 20/9/2000	NAME K. Nakai SIGNATURE <i>K. Nakai</i> DATE 29/9/2000	NAME K. Enomoto SIGNATURE <i>K. Enomoto</i> DATE 5/10/2000	INTERCHANGE 2 DETAIL OF RAMP TERMINAL(1/3)	P1/IC2/0090

SECTIONS

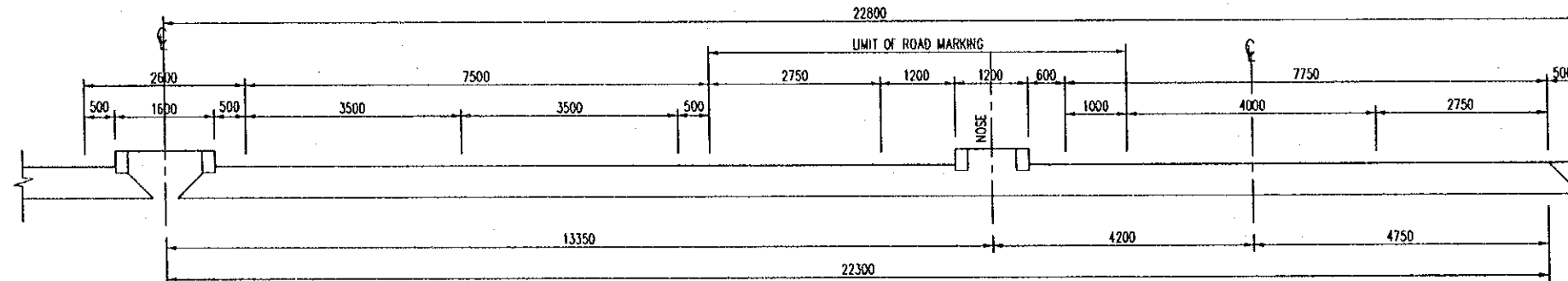
A - A

SCALE 1:100



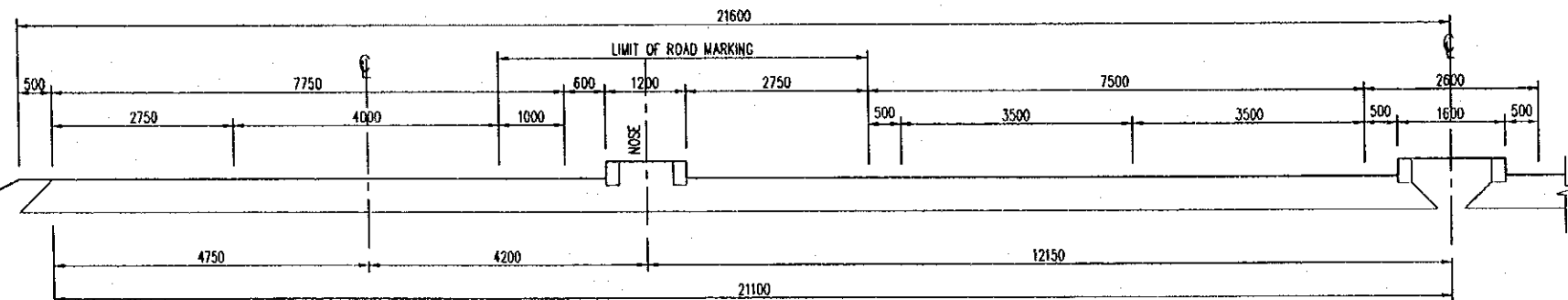
B - B

SCALE 1:100



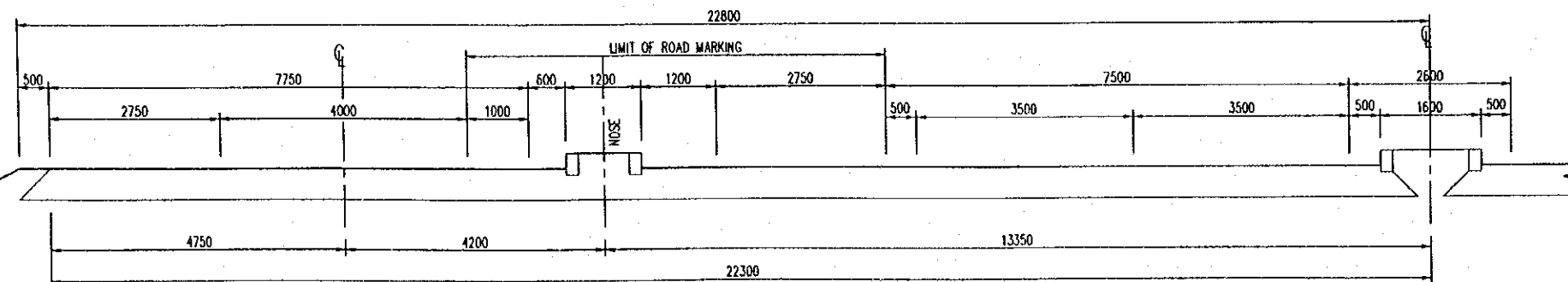
C - C

SCALE 1:100



D - D

SCALE 1:100



NOTES:

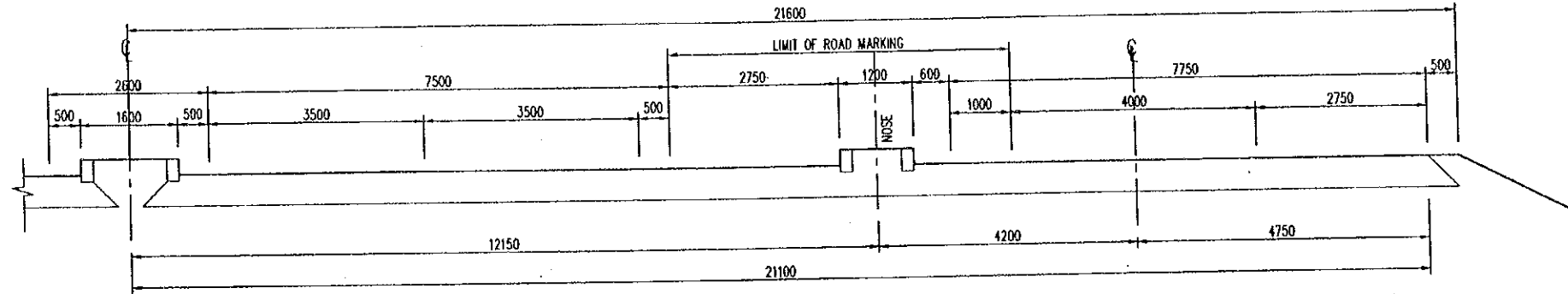
- SCALE AS SHOWN.
- ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE INDICATED.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME K. Nemoto SIGNATURE <i>K. Nemoto</i> DATE 20/9/2000	NAME K. Nakai SIGNATURE <i>K. Nakai</i> DATE 29/9/2000	NAME K. Enomoto SIGNATURE <i>K. Enomoto</i> DATE 5/10/2000	INTERCHANGE 2 DETAIL OF RAMP TERMINAL(2/3)	P1/IC2/0100

SECTIONS

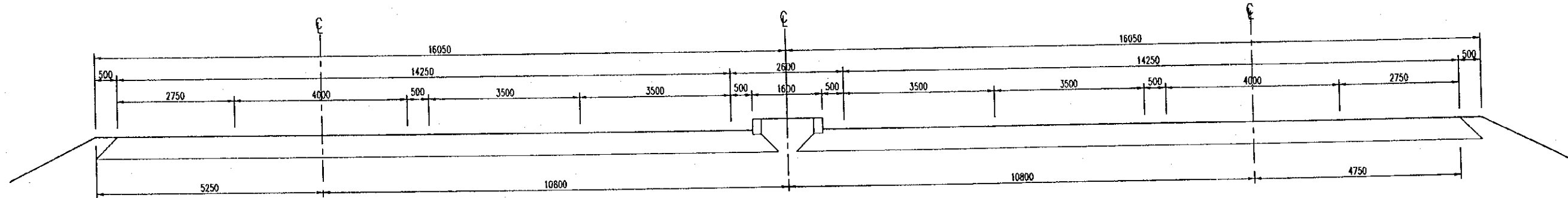
E - E

SCALE 1:100



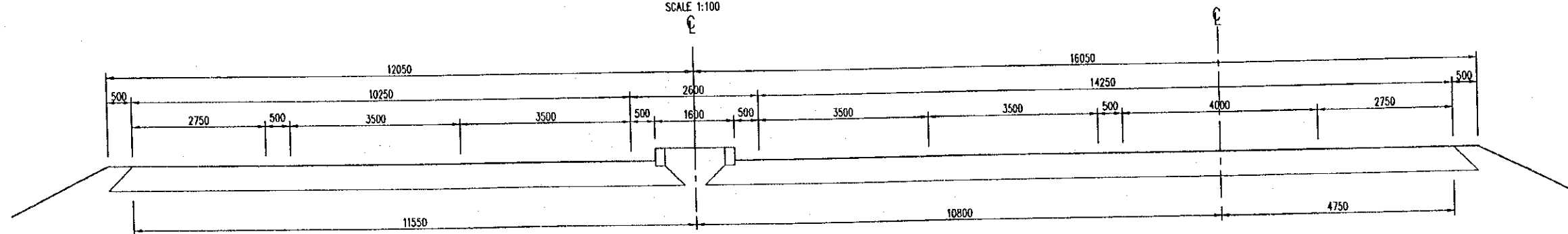
F - F

SCALE 1:100



G - G

SCALE 1:100



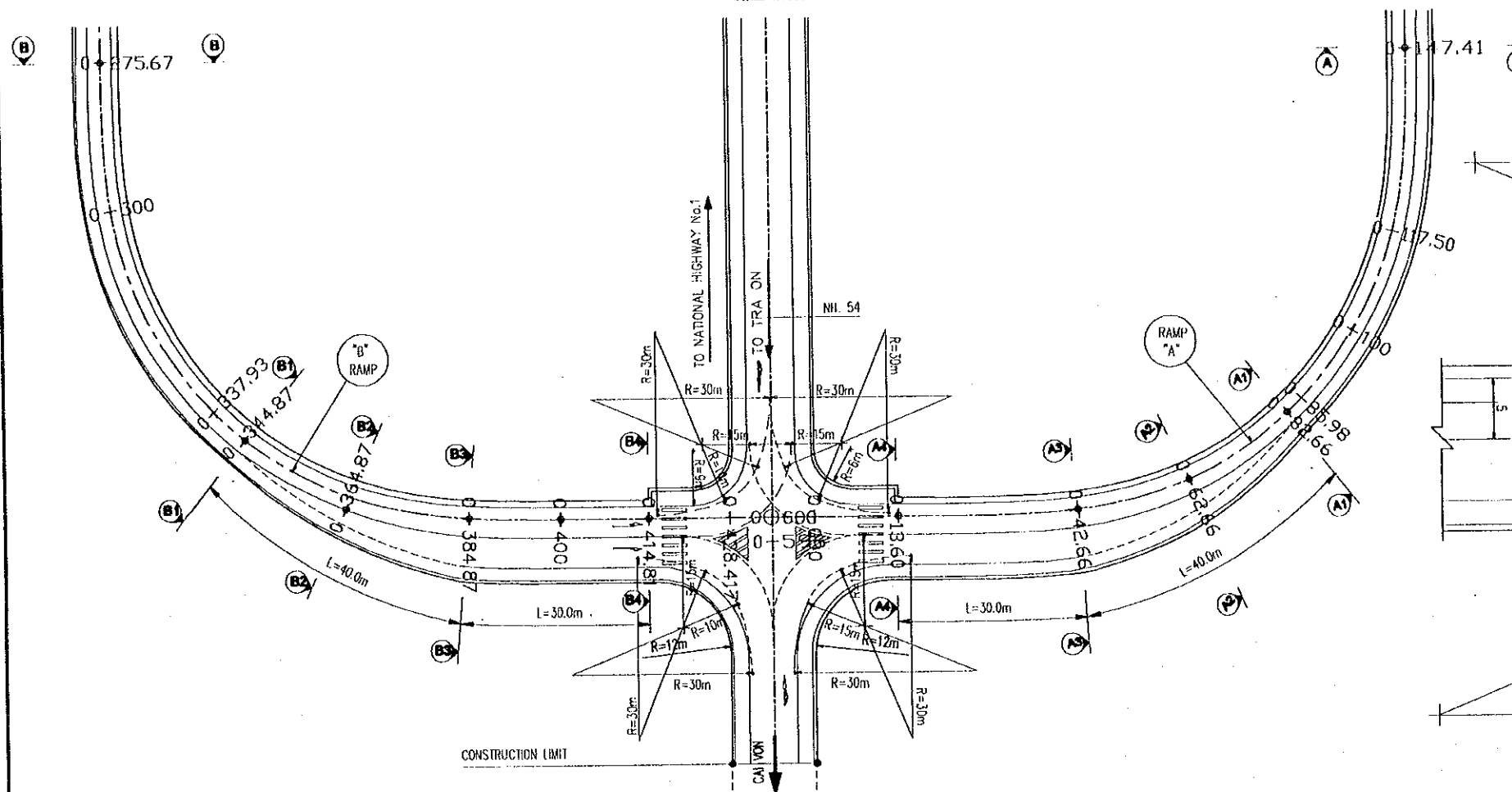
NOTES:

- SCALE AS SHOWN.
- ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE INDICATED.

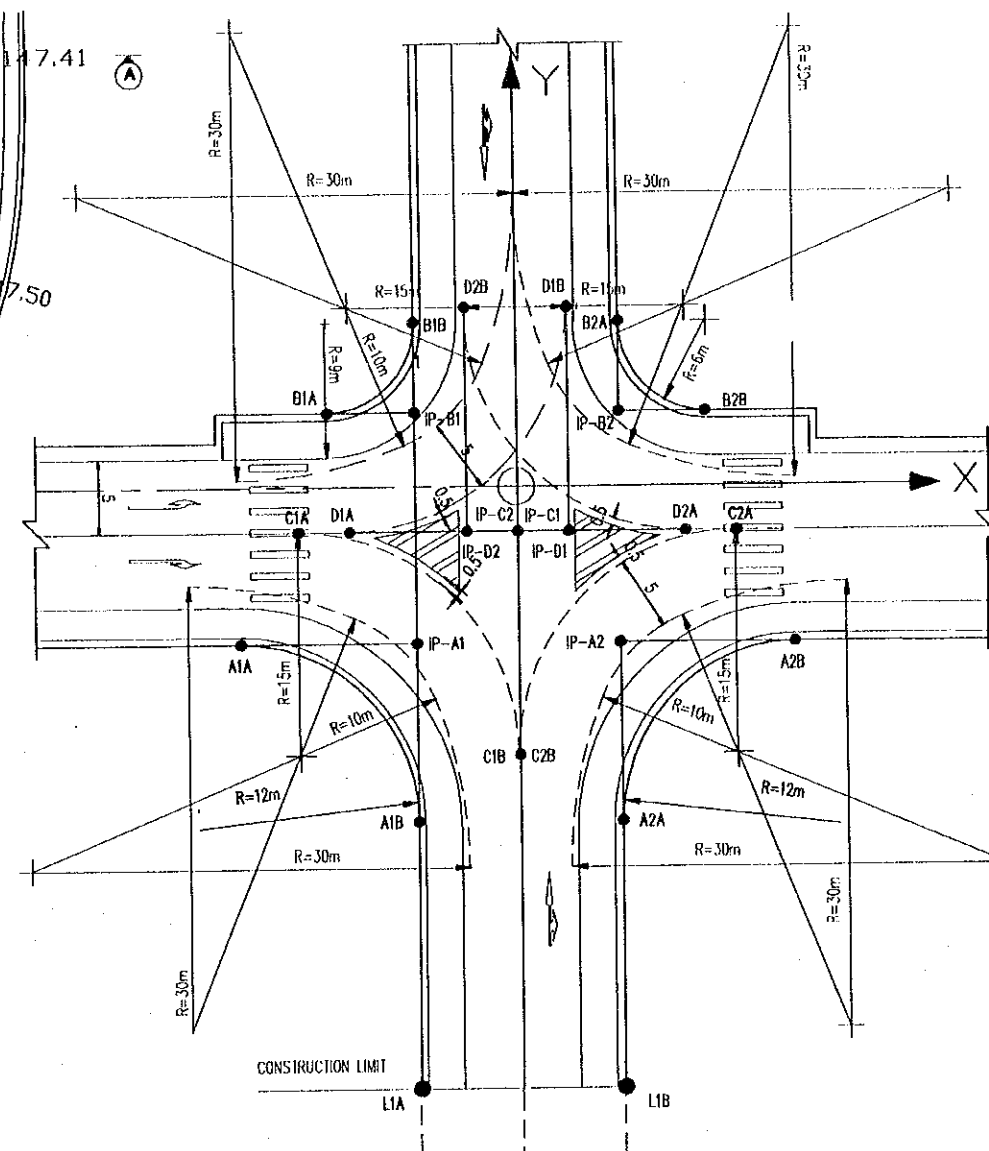
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NK NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	INTERCHANGE 2 DETAIL OF RAMP TERMINAL(3/3)	P1/C2/0110

PLAN RAMP "A", "B"

SCALE 1:1000



SCALE 1:500



LIST OF COORDINATES RAMP "A", "B"

A	X (m)	Y(m)	AZIMUTH	RADIUS(m)
A1A	-19	-10.479		
IP-A1	-7	-10.479	90°00'00"	R=12
A1B	-7.149	-22.387		
A2A	6.851	-22.387		
IP-A2	7.113	-10.55	90°00'00"	R=12
A2B	19	-10.479		
B1B	-7	11.021		
IP-B1	-7	5.021	90°00'00"	R=6
B1A	-12.93	5.021		
B2A	7	11.021		
IP-B2	7	5.021	90°00'00"	R=6
B2B	12.933	5.021		
C1A	-15	-2.979		
IP-C1	0	-2.977	90°00'00"	R=15
C1B	0	-17.979		

A	X (m)	Y(m)	AZIMUTH	RADIUS(m)
C2A	15	-2.979		
IP-C2	0	-2.977	90°00'00"	R=15
C2B	0	-17.979		
D1A	-11.5	-2.979		
IP-D1	3.5	-2.979	90°00'00"	R=15
D1B	3.5	12.021		
D2A	11.5	-2.979		
IP-D2	-3.5	-2.979	90°00'00"	R=15
D2B	-3.5	12.021		
L1A	-7	-40.496		
L1B	7	-40.496		

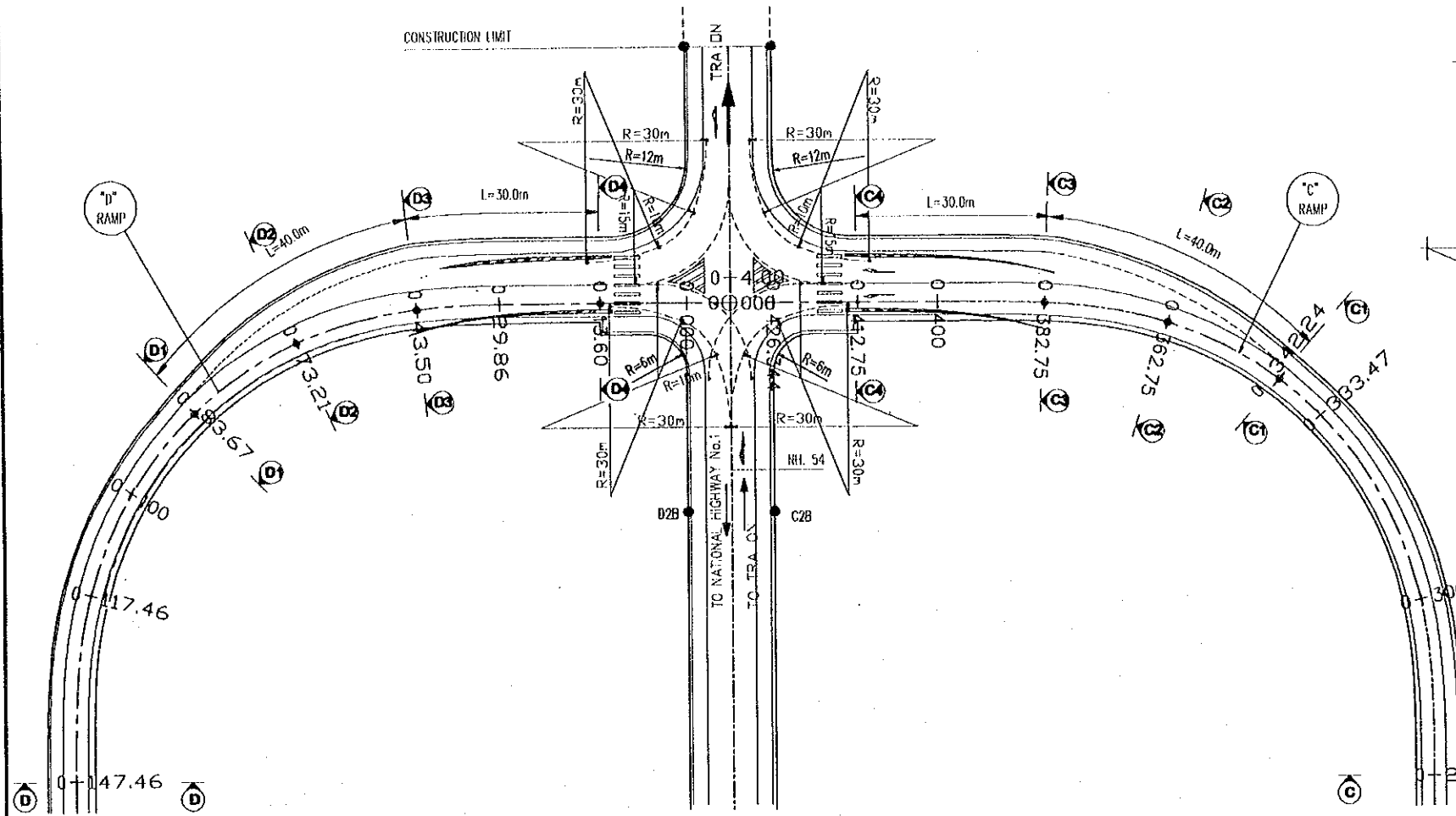
NOTES:

- Y AXIS TO BE HIGHWAY CENTER LINE (M11 SIZE), AND THE COORDINATE (0,0) TO BE THE INTERSECTION OF HIGHWAY CENTER LINE AND RAMPING AXIS.
- ANGLES OF THE TOTAL GATE ISLAND TO BE THE RADIUS 60m ARC.
- CROSS - SECTION, SEE ENG P1/C1/2010, P1/C2/2010.
- ALL DIMENSIONS ARE IN METERS.

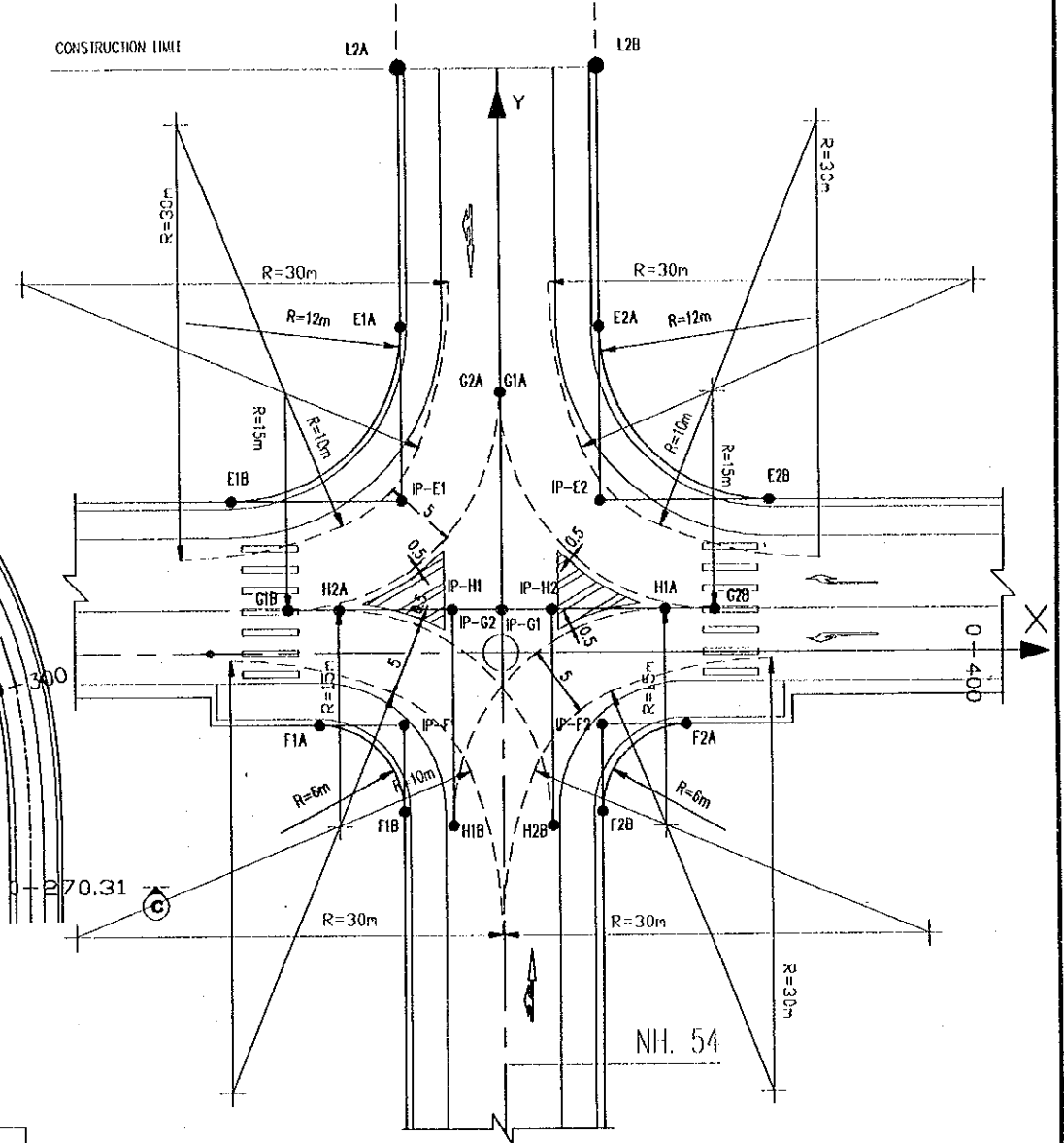
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
				NAME	K. Nemoto	K. Nakai		
DATE	20/9/2000	24/9/2000	5/10/2000	DRAWING TITLE		DWG NO.		
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT			JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)		SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT		NIPPON KOEI CO.,LTD.	
							INTERCHANGE 2 DETAIL INTERSECTION (1/3)	P1/C2/0120

PLAN RAMP "C", "D"

SCALE 1:500



SCALE 1:500



LIST OF COORDINATES RAMP "C", "D"

A	X (m)	Y(m)	AZIMUTH	RADIUS(m)
E1A	-7	22.5		
IP-E1	-7	10.5	90°00'00"	R=12
E1B	-19	10.5		
E2A	7	22.5		
IP-E2	7	10.5	90°00'00"	R=12
E2B	19	10.5		
F1A	-12.93	-5		
IP-F1	-7	-5	90°00'00"	R=6
F1B	-7	-11		
F2A	12.933	-5		
IP-F2	7	-5	90°00'00"	R=6
F2B	7	-11		
G1A	0	18		
IP-G1	0	3.003	90°00'00"	R=15
G1B	-15	3		

A	X (m)	Y(m)	AZIMUTH	RADIUS(m)
G2A	0	18		
IP-G2	0	3.003	90°00'00"	R=15
G2B	15	3		
H1A	11.5	3		
IP-H1	-3.5	3		
H1B	-3.5	-12	90°00'00"	R=15
H2A	-11.5	3		
IP-H2	3.5	2.999		
H2B	3.649	-12.092	90°00'00"	R=15
L2A	-7	40.375		
L2B	7	40.375		

NOTES:

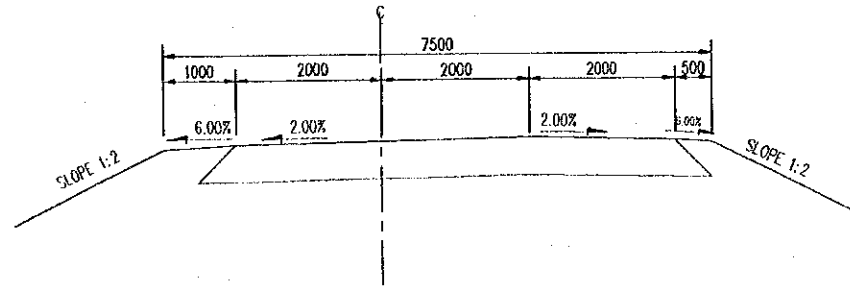
- Y AXIS TO BE NH54'S CENTER LINE (NH1 SIDE), AND THE COORDINATE (0,0) TO BE THE INTERSECTION OF NH54'S CENTER LINE AND RAMPWAY C,D'S.
- ANGLES OF THE TOLL GATE ISLAND TO BE THE RADIUS 0.6m ARCS.
- CROSS - SECTION, SEE DWG P1/IC2/0140, P1/IC2/0150.
- ALL DIMENSIONS ARE IN METERS.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	K. Nemoto	K. Nakai	K. Enomoto	INTERCHANGE 2 DETAIL INTERSECTION (2/3)	P1/IC2/0130
				NAME				
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

CROSS - SECTION

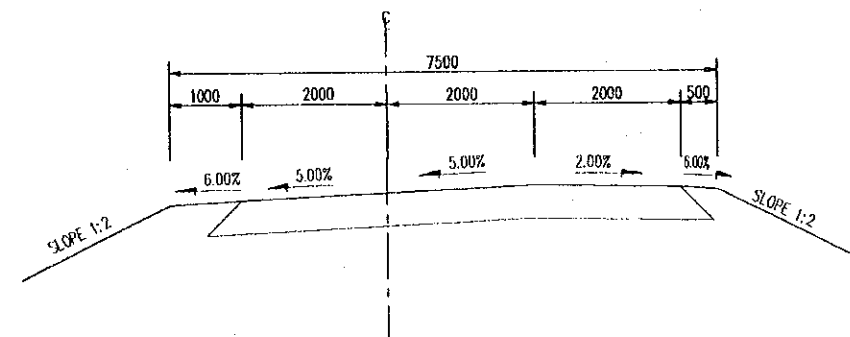
A - A (KM0+147.41)
 B - B (KM0+275.67)
 C - C (KM0+270.31)
 D - D (KM0+147.46)

SCALE 1:100



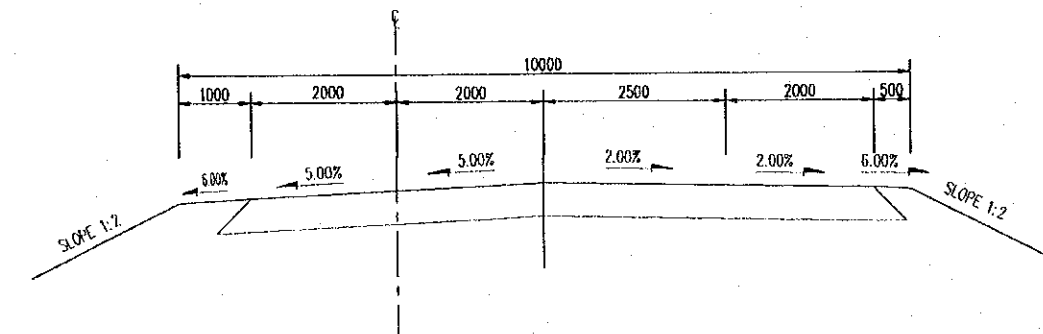
A1 - A1 (KM0+82.66)
 B1 - B1 (KM0+344.87)
 C1 - C1 (KM0+342.24)
 D1 - D1 (KM0+83.67)

SCALE 1:100



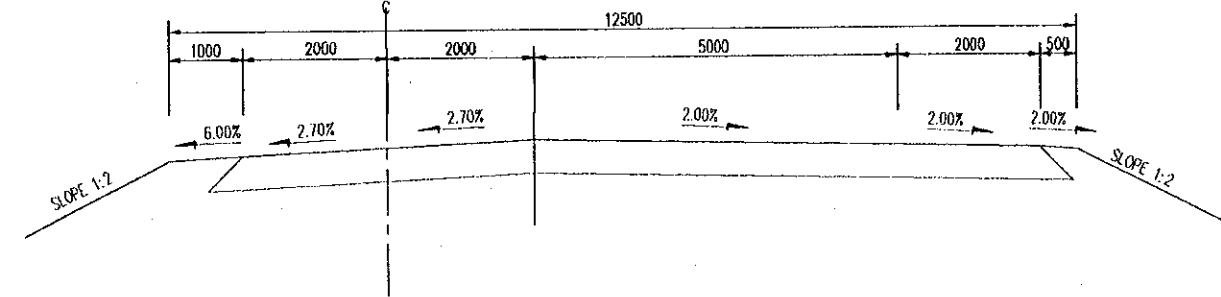
A2 - A2 (KM0+62.66)
 B2 - B2 (KM0+364.87)
 C2 - C2 (KM0+362.75)
 D2 - D2 (KM0+73.21)

SCALE 1:100



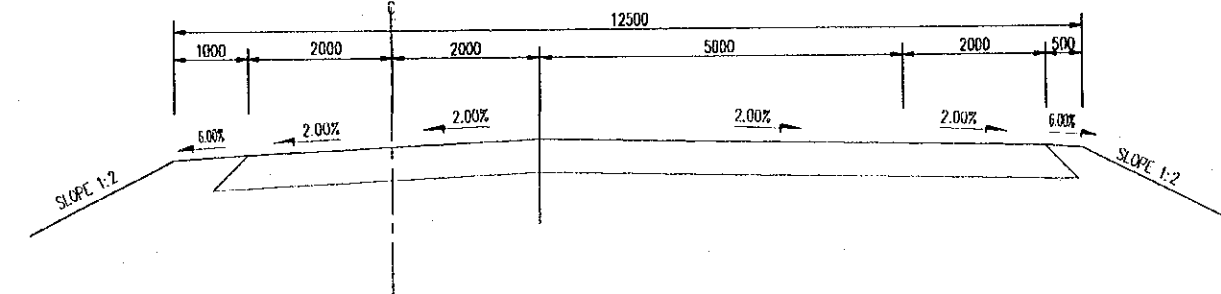
A3 - A3 (KM0+42.66)
 B3 - B3 (KM0+384.87)
 C3 - C3 (KM0+382.75)
 D3 - D3 (KM0+43.50)

SCALE 1:100



A4 - A4 (KM0+13.60)
 B4 - B4 (KM0+414.81)
 C4 - C4 (KM0+412.75)
 D4 - D4 (KM0+13.60)

SCALE 1:100

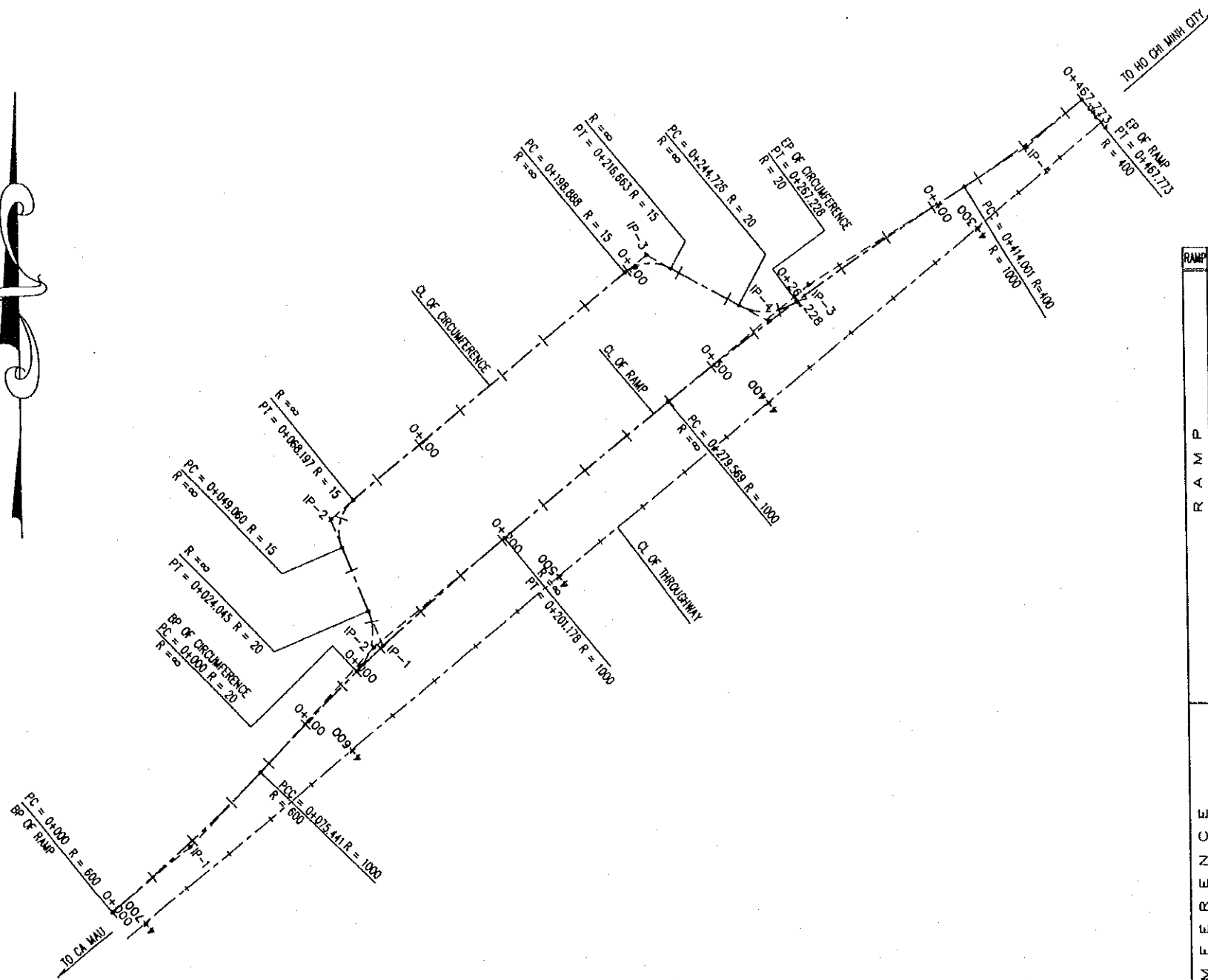


NOTES:

- LOCATION OF CROSS - SECTION SEE, DWG B1/IC1/100.
- ALL DIMENSIONS ARE IN MILLIMETERS.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	K. Nemoto	K. Nakai	K. Enomoto	INTERCHANGE 2 DETAIL OF INTERSECTION (3/3)	P1/IC2/0140
				SIGNATURE				
				DATE	DATE	DATE		

P1/SA VINH LONG SERVICE AREA

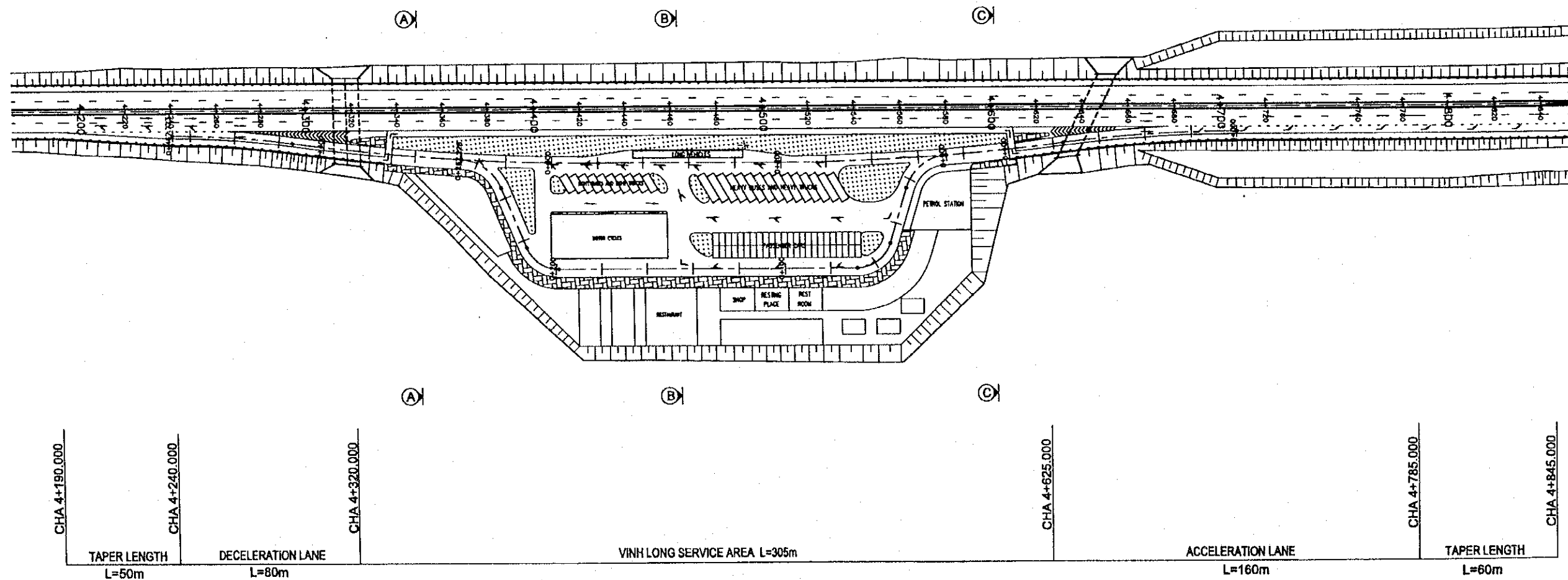


RAMP	IP No	IA	IP Station	Point	Pnt Station	Northing	Easting	Element	Direction	Length(m)	IP Distance	Azimuth	
RAMP				BP=PC	0+000.000	1 110 665.717	589995.119				37.770	50° 46' 58"	
	IP-1	7° 12' 14"	0+037.720			1 110 689.598	590 024.382	R=600	LEFT	75.441			
				PCC	0+075.441	1 110 716.959	590 050.419				100.721	43° 34' 43"	
	IP-2	7° 12' 15"	0+138.309			1 110 762.564	590 093.815	R=1000	RIGHT	125.736			
				PT	0+201.178	1 110 802.365	590 142.586				208.659	50° 46' 58"	
				PC	0+279.569	1 110 851.928	590 203.320		TANGENT		78.391		
	IP-3	7° 42' 8"	0+346.784			1 110 894.490	590 255.474	R=1000	RIGHT	134.431			
				PCC	0+414.000	1 110 929.678	590 312.863					94.243	58° 29' 6"
	IP-4	7° 42' 8"	0+440.886			1 110 943.753	590 335.818	R=400	LEFT	53.772			
				EP=PT	0+467.773	1 110 960.778	590 356.680					26.927	50° 46' 58"
	WONLEWELFUMUCUR				BP=PC	0+000.000	1 110 753.794	590 067.348				13.715	46° 34' 3"
		IP-1	68° 52' 56"	0+038.110			1 110 763.224	590 097.308	R=20	LEFT	24.324		
				PT	0+024.045	1 110 775.912	590 092.100				25.015	49.850	337° 41' 6"
				PC	0+049.060	1 110 799.054	590 082.602		TANGENT				
IP-2		73° 5' 52"	0+084.717			1 110 809.341	590 078.380	R=15	RIGHT	19.137			
				PT	0+068.197	1 110 816.371	590 086.995					151.907	50° 46' 58"
				PC	0+198.888	1 110 899.002	590 188.248		TANGENT		130.691		
IP-3		67° 53' 40"	0+233.864			1 110 881.022	590 196.072	R=15	RIGHT	17.774			
				PT	0+216.663	1 110 900.540	590 204.931					50.770	118° 40' 39"
				PC	0+244.726	1 110 887.073	590 229.551		TANGENT		28.063		
IP-4		64° 27' 43"	0+282.065			1 110 881.022	590 240.614	R=20	LEFT	22.501			
				EP=PT	0+267.228	1 110 888.396	590 250.844					12.610	54° 12' 55"

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO., LTD.	K. Nemoto	K. Nakai	K. Enomoto	VINH LONG SERVICE AREA ALIGNMENT LAYOUT AND GEOMETRIC DATA (SCALE 1:2000)	P1/SA/0010
				SIGNATURE				
				DATE	20/9/2000	29/9/2000	5/10/2000	

PLAN

SCALE 1:2000



NOTES:

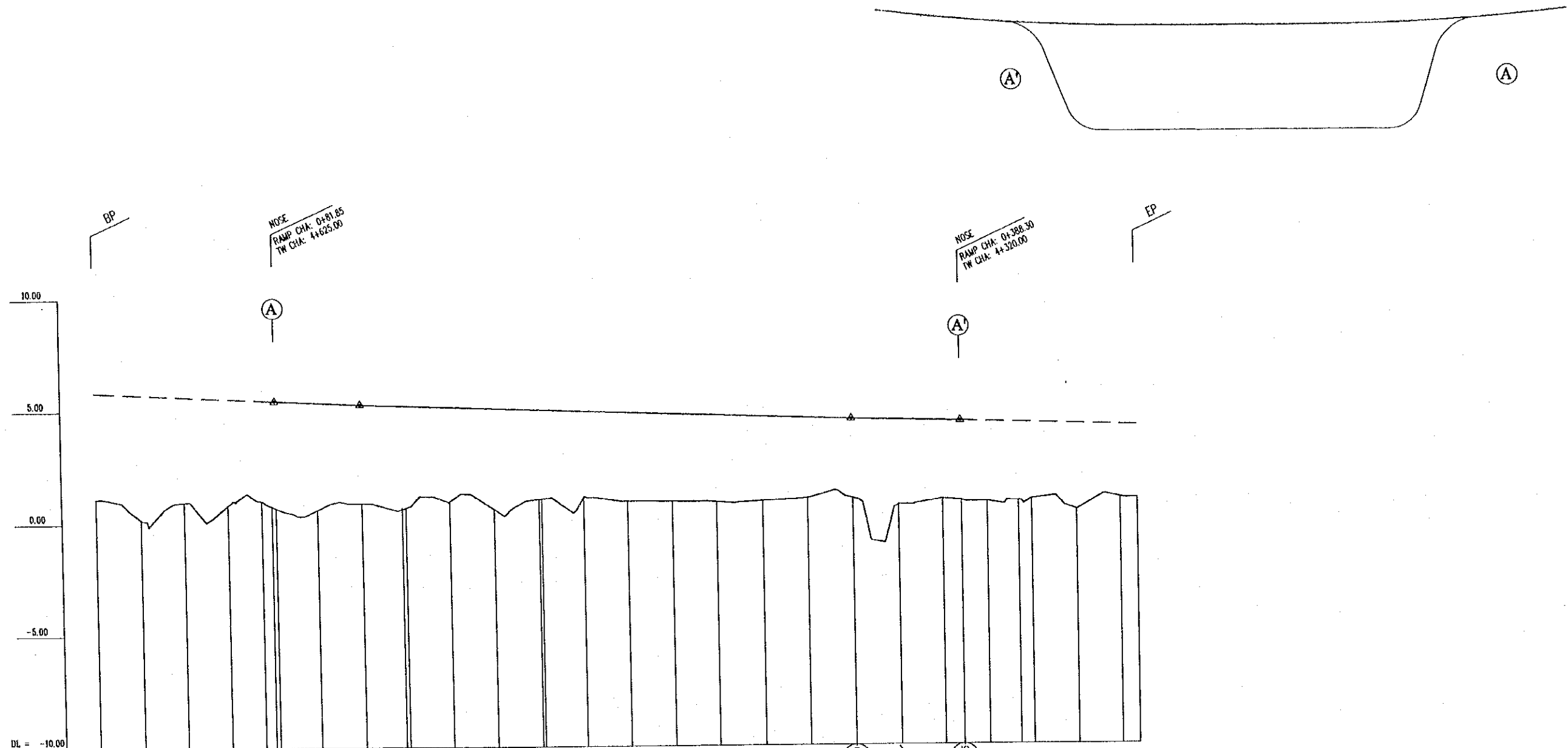
CROSS_SECTION A-A, B-B, C-C SEE DWG P1/SA/0040

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	NAME K. Nemoto SIGNATURE <i>K. Nemoto</i> DATE 20/9/2000	K. Nakai <i>K. Nakai</i> 29/9/2000	K. Enomoto <i>K. Enomoto</i> 5/10/2000	VINH LONG SERVICE AREA PLAN	P1/SA/0020

KEY - PLAN
NOT TO SCALE

HO CHI MINH CITY

CA MAU



V : 1:200
H : 1:2000

DL = -10.00

GRADIENT	5.457	ECPP L=8185				5.457	L=3815 I=-0.464%				L=220.000	I=-0.346%	4.520	L=48.31	I=-0.258%	4.395	ECPP L=7946			
DESIGN LEVELS (m)																				
EXISTING LEVEL (m)	1.10	0.18	0.96	0.82	0.80	0.76	0.60	0.373	0.30	0.280	0.280	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.20	
DISTANCE (m)																				
ACCUMULATED DISTANCE (m)	0.0	20.0	40.0	60.0	75.4	81.85	100.0	120.0	198.3	218.3	240.3	260.3	280.3	300.3	320.3	340.3	360.3	388.3	400.3	
CHAINAGE	PC	0+20	0+40	0+60	PCC 0+80	0+80	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	
CURVE ELEMENT	IA=172°47'45" R=600.00 TL=37.77 CL=75.44				IA=172°47'45" R=1000.00 TL=62.95 CL=125.74				IA=172°17'52" R=1000.00 TL=67.32 CL=134.43				IA=172°17'52" R=400.00 TL=26.93 CL=53.77							
SUPER ELEVATION																				

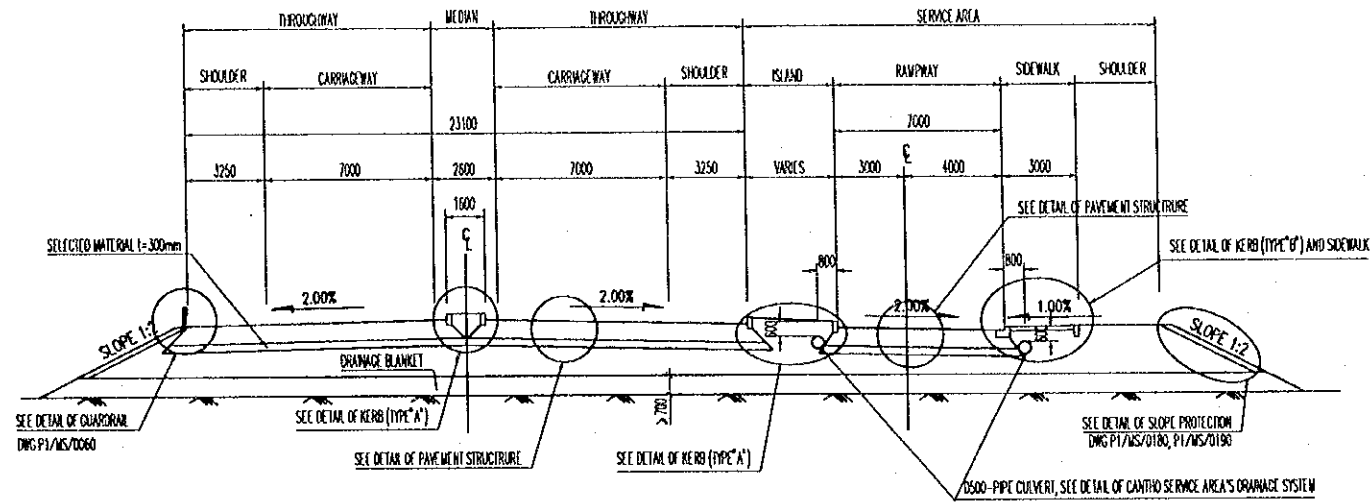
NOTES:

SCALE AS SHOWN
ALL UNITS ARE IN METERS

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	VINH LONG SERVICE AREA PROFILE OF RAMP	P1/SA/0030

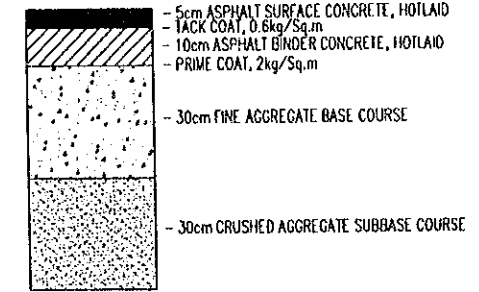
A-A & C-C

SCALE 1:300



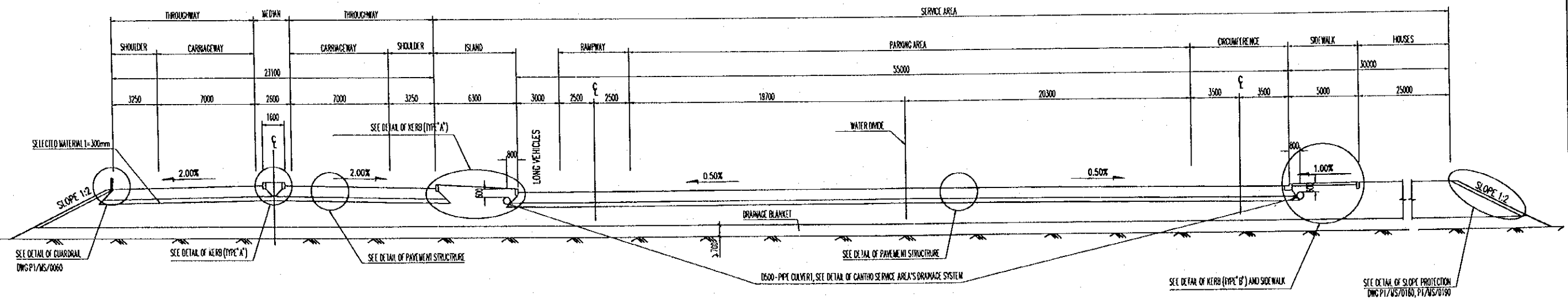
PAVEMENT STRUCTURE

SCALE 1/20



B-B

SCALE 1:300



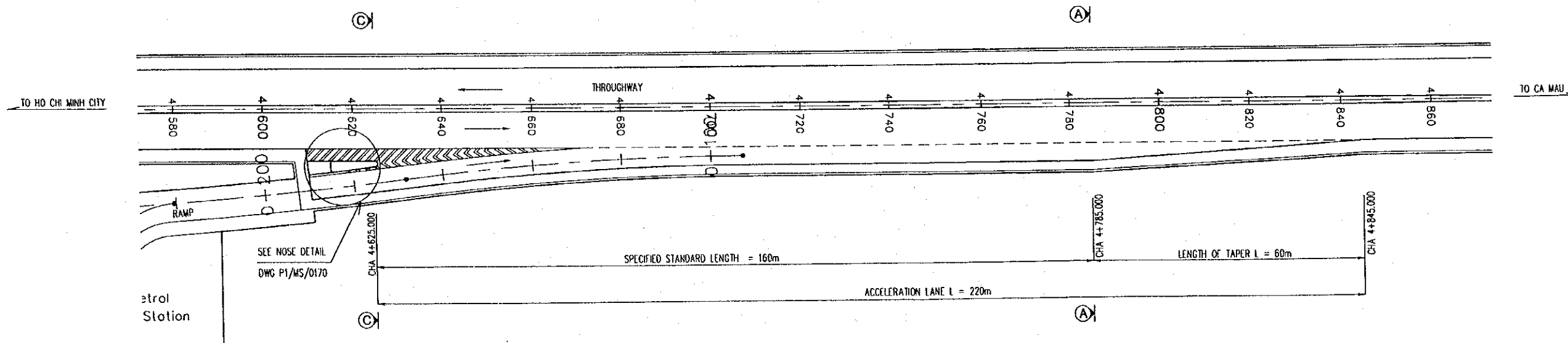
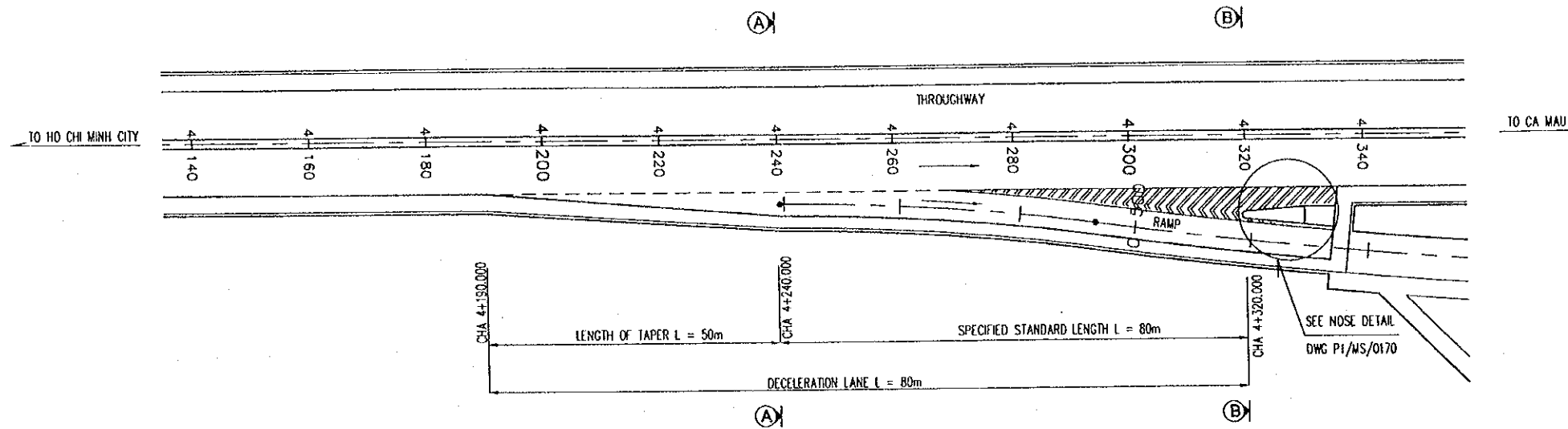
NOTES:

ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE INDICATED
LOCATION OF CROSS-SECTION SEE DWG P1/SA/0020

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	NAME	K. Nemoto	K. Nakai	VINH LONG SERVICE AREA TYPICAL CROSS SECTION AND PAVEMENT STRUCTURE	P1/SA/0040
				SIGNATURE	<i>K. Nemoto</i>	<i>K. Nakai</i>		
				DATE	20/9/2000	29/9/2000		

PLAN

SCALE 1:1000



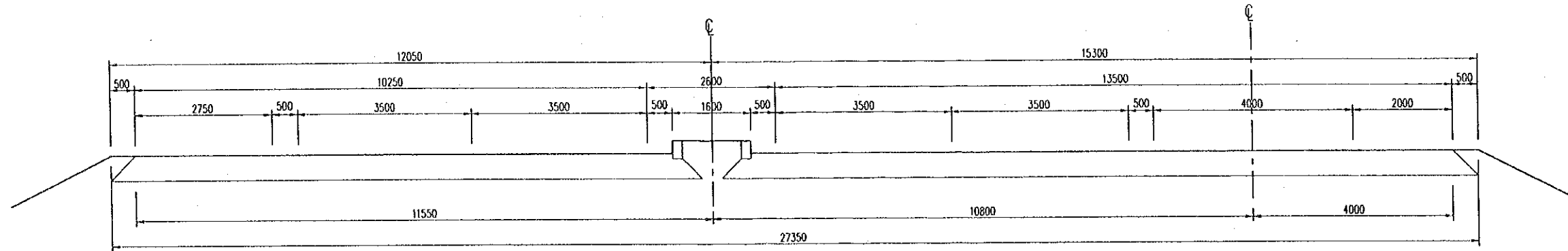
NOTES:

- SCALE AS SHOWN
- ALL DIMENSIONS ARE METER, UNLESS OTHERWISE INDICATED.

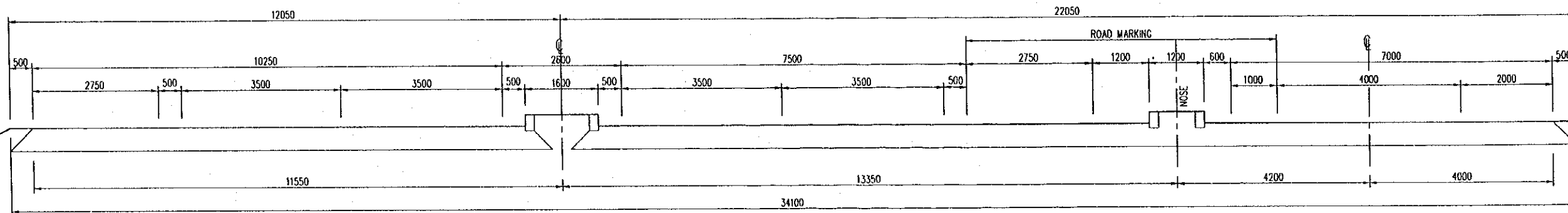
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NK NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	VINH LONG SERVICE AREA RAMP TERMINAL DETAIL(1/2)	P1/SA/0050

SECTIONS

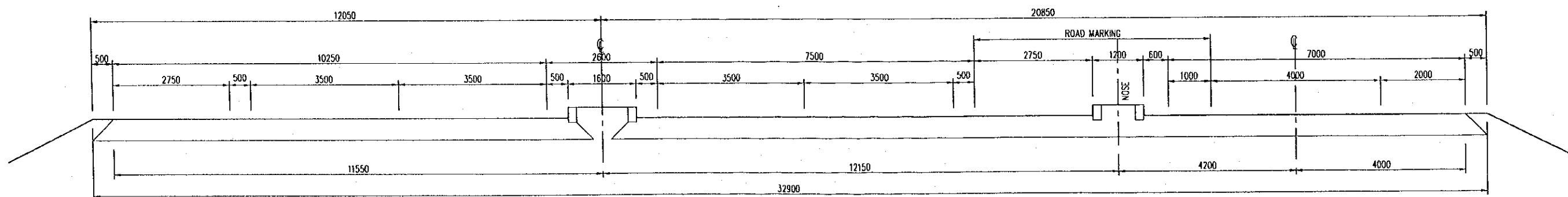
A - A
SCALE 1:100



B - B
SCALE 1:100



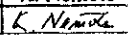
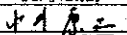



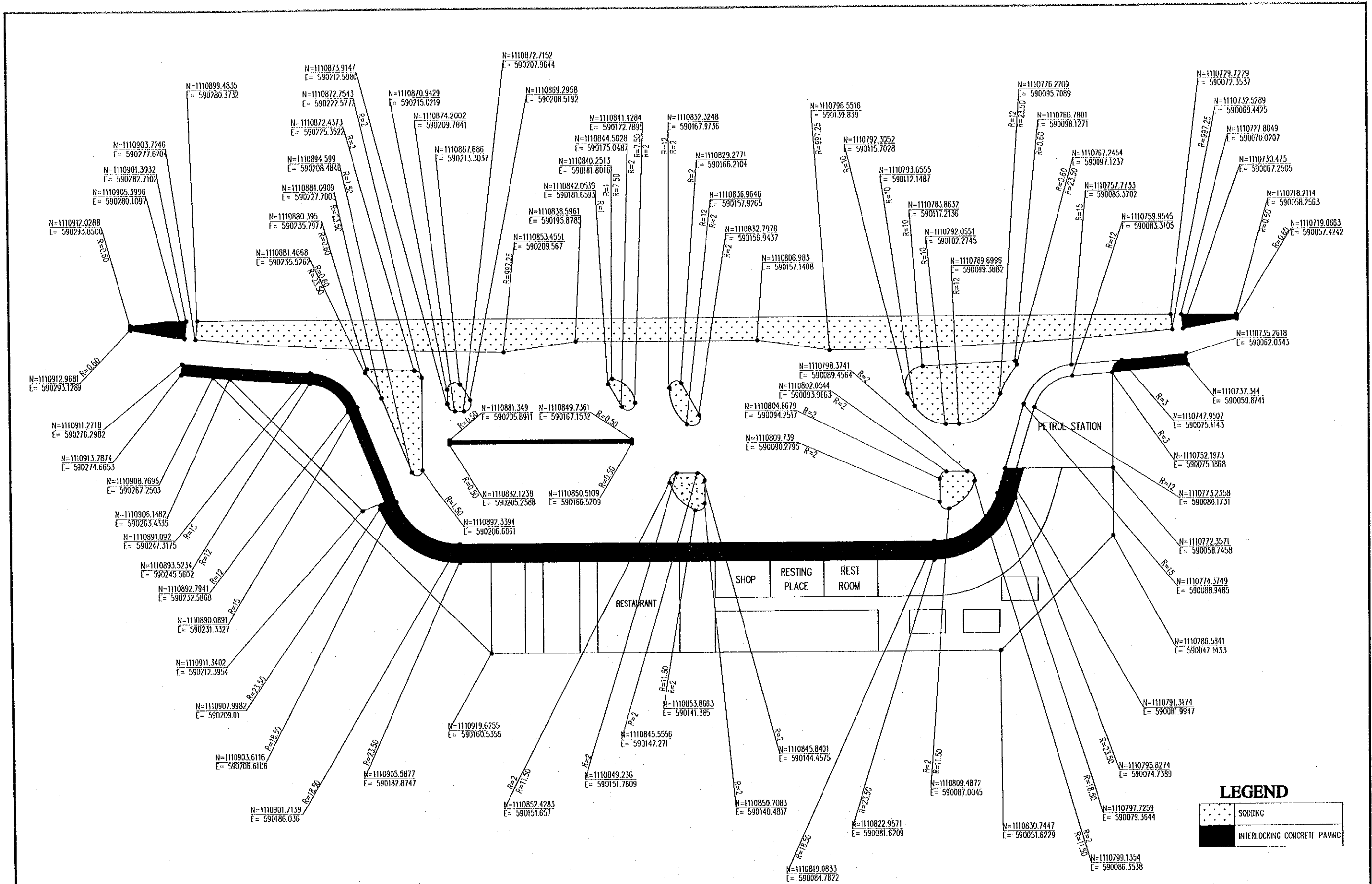
C - C
SCALE 1:100



NOTES:

- SCALE AS SHOWN
- ALL DIMENSIONS ARE MILLIMETER,
- UNLESS OTHERWISE INDICATED.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	 NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE:  DATE: 20/9/2000	NAME: K. Nakai SIGNATURE:  DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE:  DATE: 5/10/2000	VINH LONG SERVICE AREA RAMP TERMINAL DETAIL(2/2)	P1/SA/0060



LEGEND

	SODDING
	INTERLOCKING CONCRETE PAVING

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE: DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: DATE: 5/10/2000	VINH LONG SERVICE AREA ISLAND'S LAYOUT AND GEOMETRIC DATA (SCALE 1: 1000)	P1/SA/0070

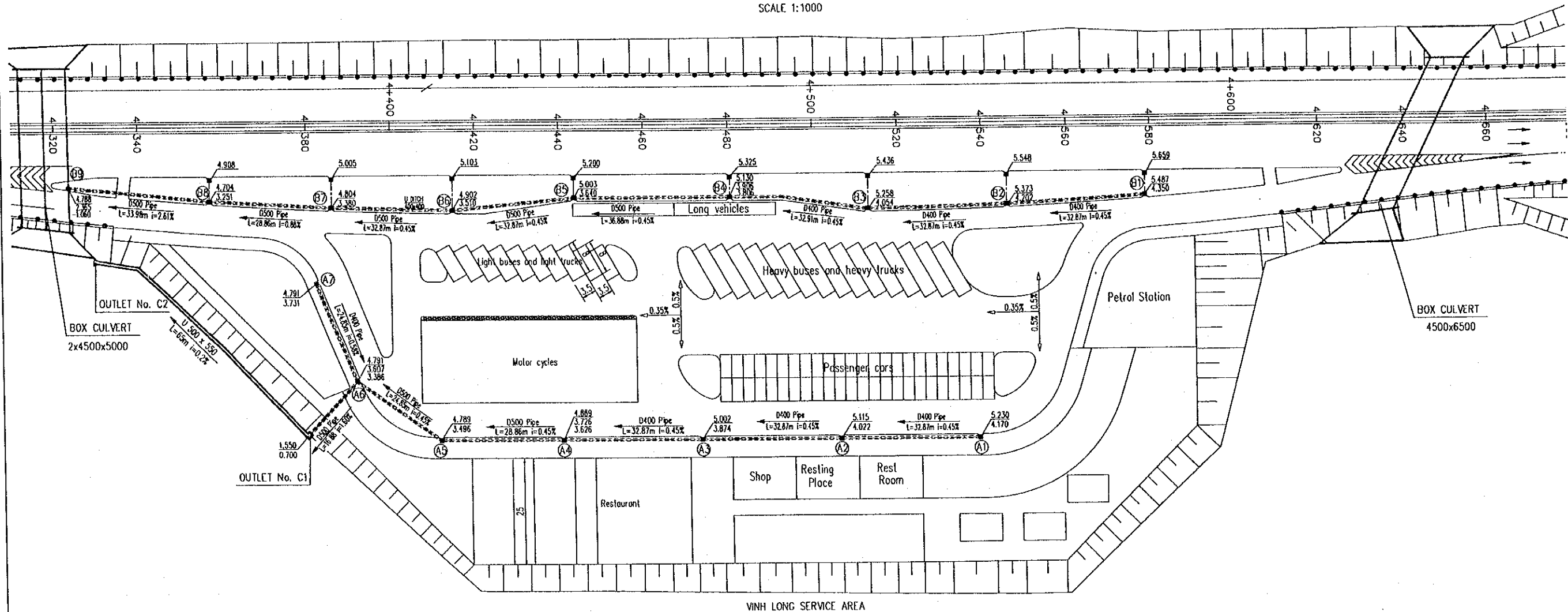
VINH LONG SERVICE AREA

PLAN LAYOUT OF DRAINAGE SYSTEM

SCALE 1:1000

TO VINH LONG

TO CAN THO



NOTE:

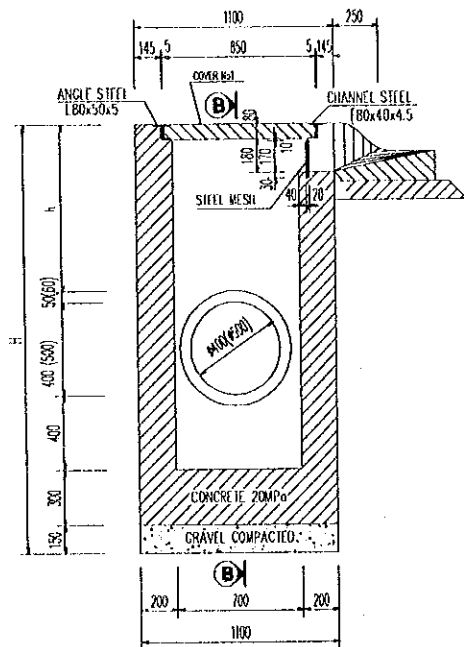
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO., LTD.	NAME K. Nemoto SIGNATURE <i>K. Nemoto</i> DATE 20/9/2000	NAME K. Nakai SIGNATURE <i>K. Nakai</i> DATE 29/9/2000	NAME K. Enomoto SIGNATURE <i>K. Enomoto</i> DATE 5/10/2000	VINH LONG SERVICE AREA PLAN LAY OUT FOR DRAINAGE SYSTEM	P1/SA/0080

CATCH BASIN (TYPE A1, A2, A3, A4, A5, A6, A7)

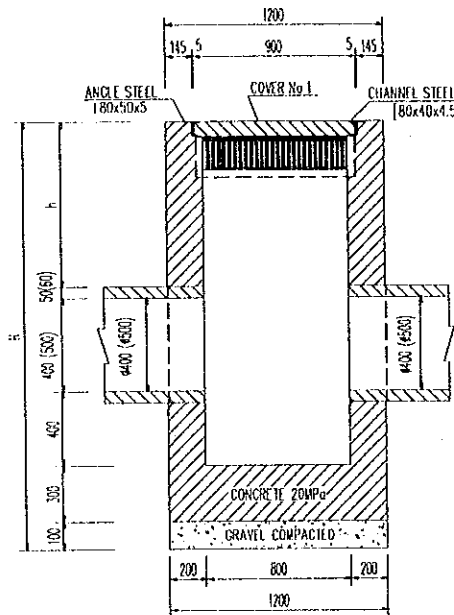
SECTION A - A

SCALE 1:40



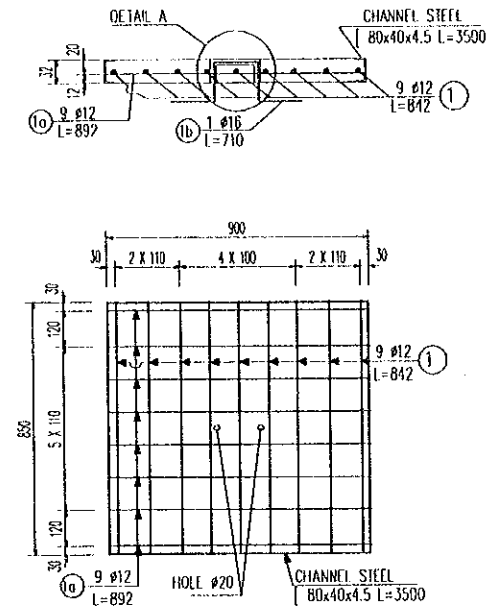
SECTION B - B

SCALE 1:40



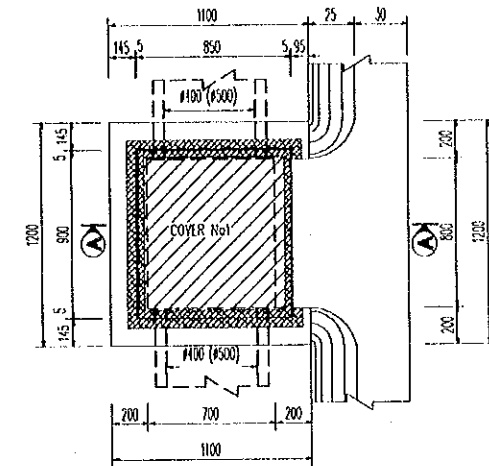
COVER No 1

SCALE 1:25



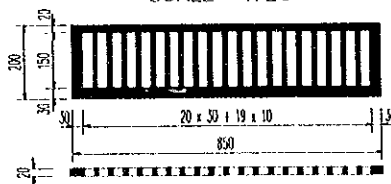
PLAN PLAYOUT

SCALE 1:40



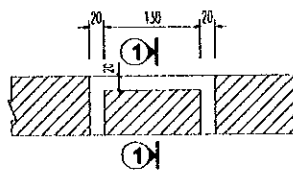
STEEL MESH

SCALE 1:20



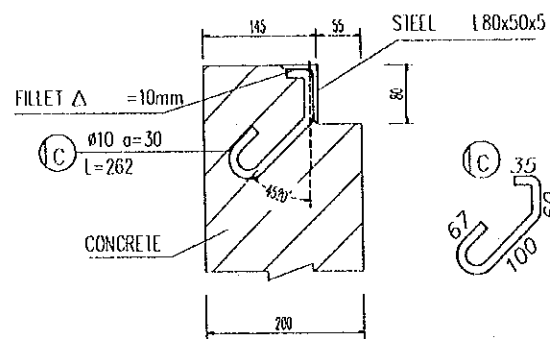
DETAIL A

SCALE 1:10



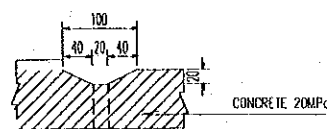
DETAIL OF ANCHOR OF ANGLE STEEL 80X50X5

SCALE 1:10



SECTION 1-1

SCALE 1:10



QUANTITY TABLE FOR 1 COVER

ITEM	SYMBOL	DIAMETER OF BAR	LENGTH OF 1 BAR (mm)	NUMBER OF BARS	TOTAL LENGTH (m)	TOTAL WEIGHTS (kg)	BENDING DIAGRAM
COVER No 1	①	φ12	842	9	7.58	6.75	① — 842
	①a	φ12	982	8	7.86	6.98	①a — 892
	①b	φ16	710	1	0.71	0.65	①b — 150
		- CONCRETE = 0.06m ³		- STEEL φ12 = 13.71kg.			
		- FILLET Δ 10 = 0.64m.		- STEEL φ16 = 0.65kg.			
		- FILLET POINTS= 34 POINTS.		- STEEL 80x40x4.5 = 3.50m/24.68kg			
THE WEIGHT OF STEEL MESH FOR DROP INLET= 12.60kg. ANGLE STEEL 180x50x5 = 3.15m/15.72kg. ANCHOR STEEL φ10 a=30 = 1.96kg.							

DIMENSION

TYPE	h	B
A1	610	1910
A2	643	1943
A3	678	1978
A4	713	2013
A5	753	2043
A6	845	2255
A7	610	1910

NOTE:

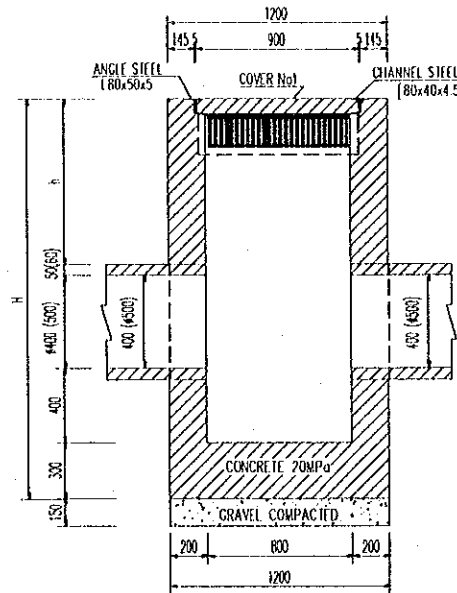
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	K. Nemoto	K. Nakai	K. Enomoto	VINH LONG SERVICE AREA STRUCTURAL OF STORM WATER SYSTEM (1/3)	P1/SA/0090
				DATE 20/9/2000	DATE 29/9/2000	DATE 5/10/2000		

CATCH BASIN (TYPE B1, B2, B3, B4, B5, B6, B7, B8)

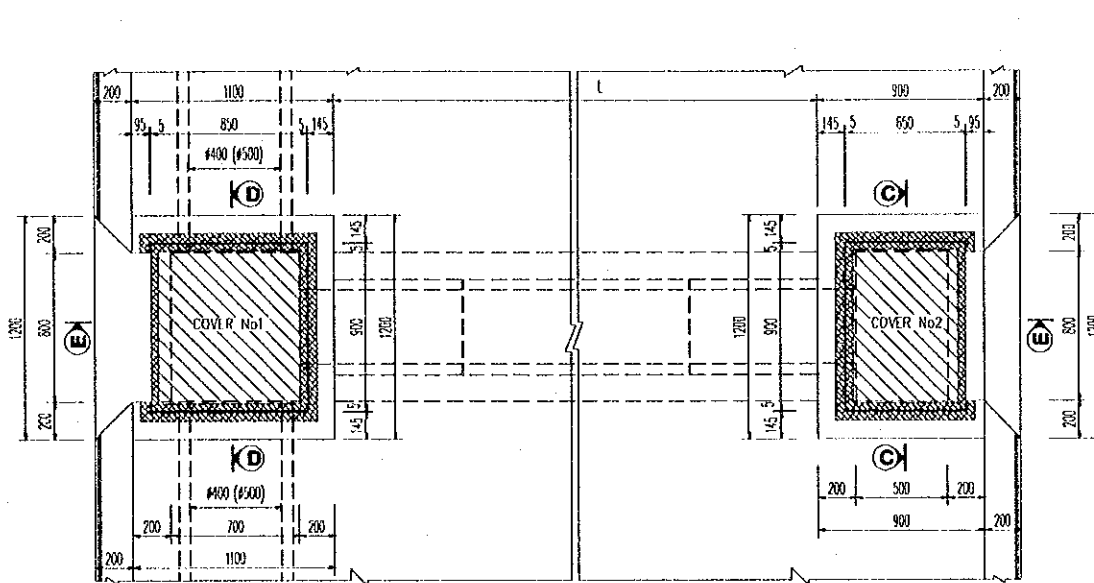
SECTION D - D

SCALE 1:40



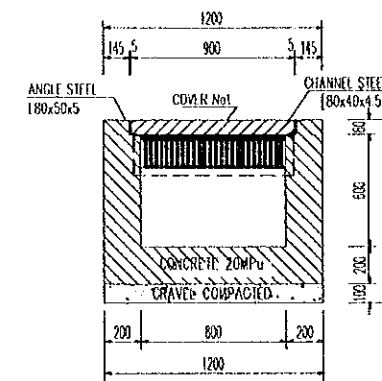
PLAN LAYOUT

SCALE 1:40



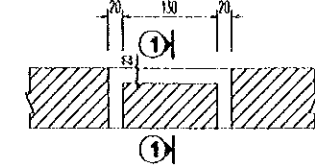
SECTION C - C

SCALE 1:40



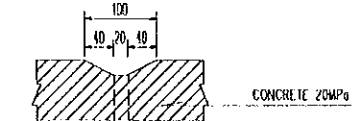
DETAIL A

SCALE 1:10



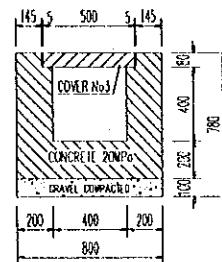
SECTION 1-1

SCALE 1:10



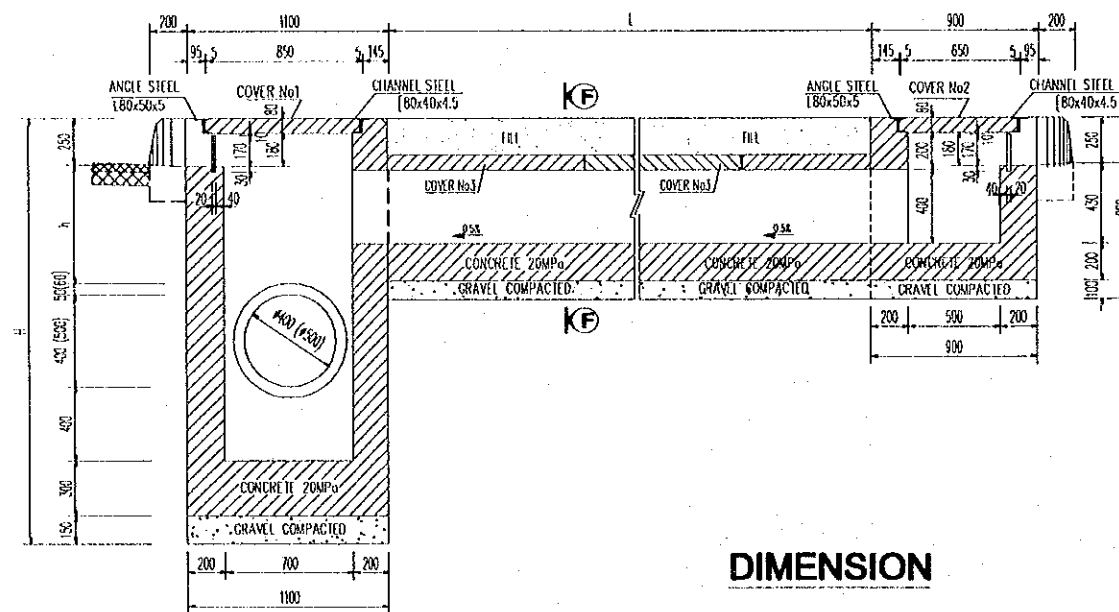
SECTION F - F

SCALE 1:40



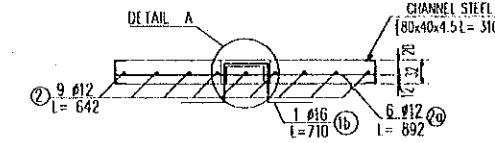
SECTION E - E

SCALE 1:40



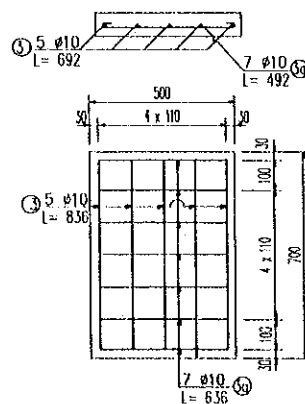
COVER No 2

SCALE 1:25



COVER No 3

SCALE 1:25



QUANTITY TABLE FOR 1 COVER

ITEM	SYMBOL	DIAMETER OF 1 BAR (mm)	LENGTH OF 1 BAR (mm)	NUMBER OF BARS	TOTAL LENGTH (m)	TOTAL WEIGHTS (kg)	BENDING DIAGRAM
COVER No 2	①b	#16	710	1	7.58	0.63	
	②	#12	642	9	5.78	5.13	
	②a	#12	892	6	5.35	4.75	
COVER No 3	③	#10	836	5	4.18	2.57	
	③a	#10	636	7	4.45	2.74	
- CONCRETE = 0.047m ³ - STEEL #12 = 9.88kg - FILLET Δ = 10 = 0.64m - STEEL #16 = 0.63kg - FILLET POINT = 30POINTS - STEEL #80x40x4.5 = 3.10m / 21.86kg							
- CONCRETE = 0.028m ³ - STEEL #10 = 5.31kg							
THE WEIGHT OF STEEL MESH FOR DROP INLET = 12.60kg. ANGLE STEEL 180x50x5 = 5.90m / 29.44kg. ANCHOR STEEL #10 a=300 = 3.36kg.							

DIMENSION

TYPE	h	H
B1	687	1987
B2	721	2071
B3	754	2054
B4	714	2114
B5	803	2213
B6	832	2242
B7	864	2274
B8	893	2303

NOTE:

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED

2- STRUCTURE OF STEEL MESH AND DETAIL OF ANCHOR STEEL

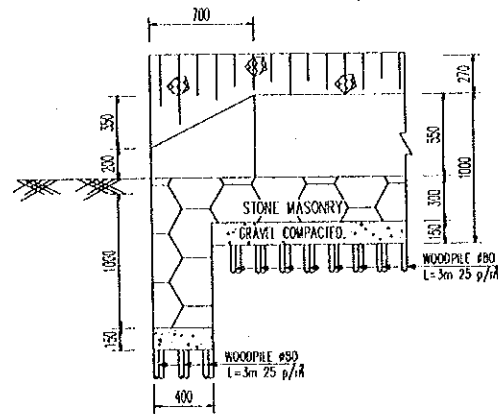
SEE DRAWING No: P1/SA/0090

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NKC) NIPPON KOEI CO.,LTD.	NAME K. Nemoto SIGNATURE <i>K. Nemoto</i> DATE 20/9/2000	NAME K. Nakai SIGNATURE <i>K. Nakai</i> DATE 29/9/2000	NAME K. Enomoto SIGNATURE <i>K. Enomoto</i> DATE 5/10/2000	VINH LONG SERVICE AREA STRUCTURAL OF STORM WATER SYSTEM (2/3)	P1/SA/0100

OUTLET

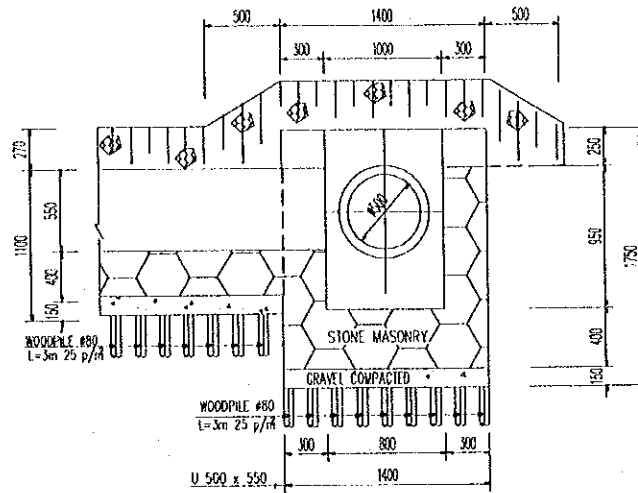
SECTION G - G

SCALE 1:50



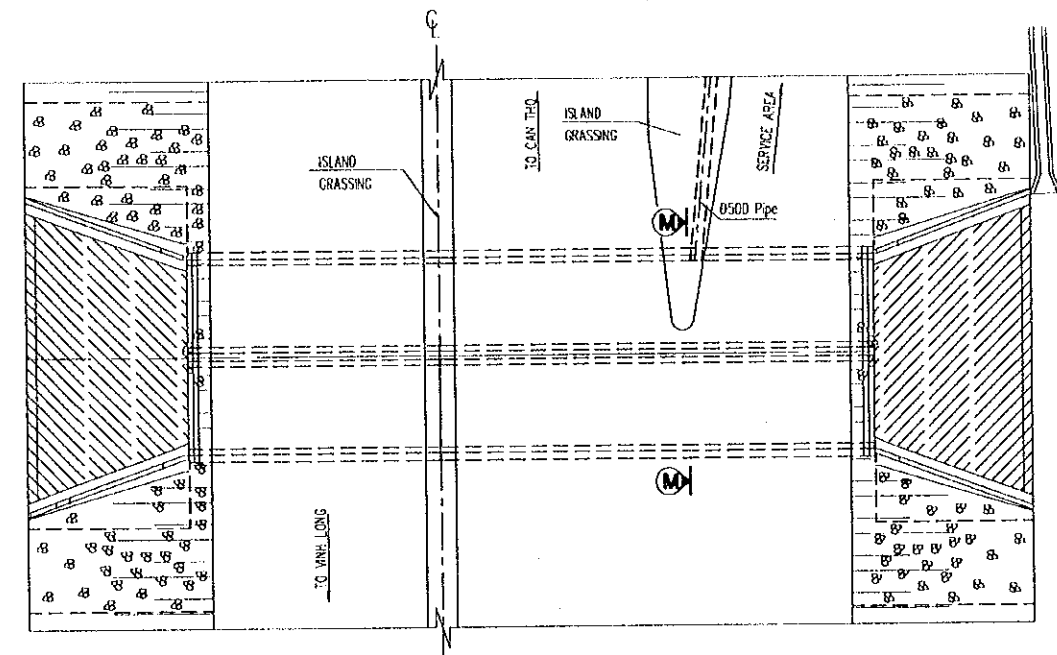
SECTION H - H

SCALE 1:50



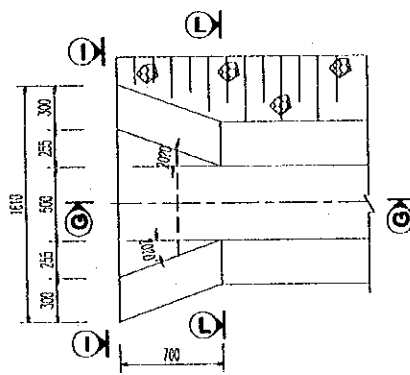
PLAN OF OUTLET B9

SCALE 1:400



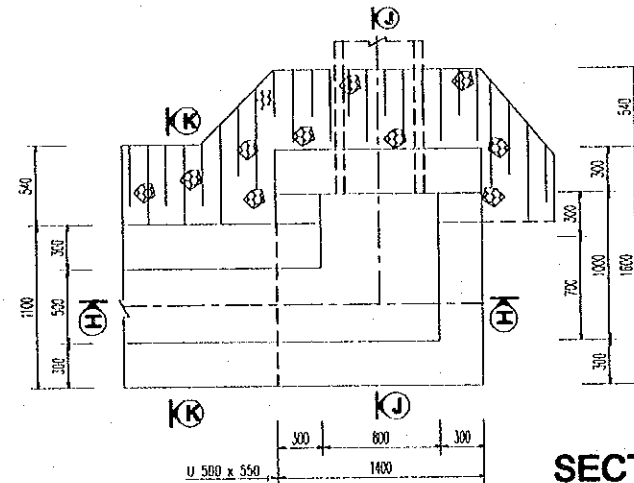
PLAN OF OUTLET C2

SCALE 1:50



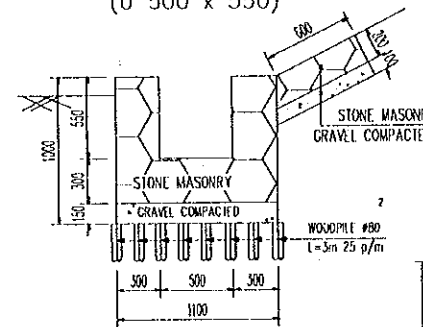
PLAN OF OUTLET C1

SCALE 1:50



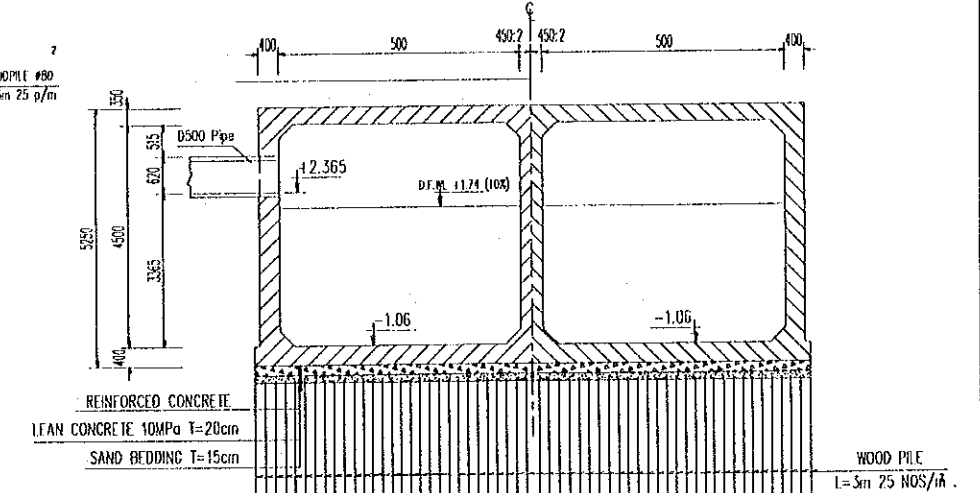
SECTION K - K

SCALE 1:50
(U 500 x 550)



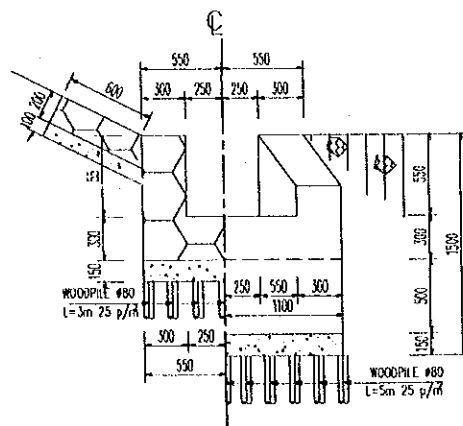
SECTION M - M

SCALE 1:150



HALF SECTION I - I

SCALE 1:50

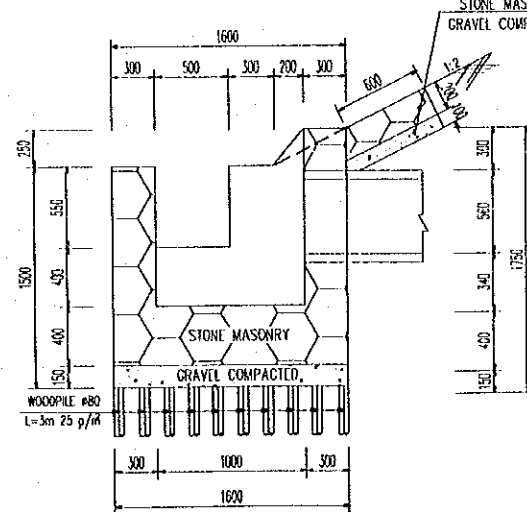


HALF SECTION L - L

SCALE 1:50

SECTION J - J

SCALE 1:50



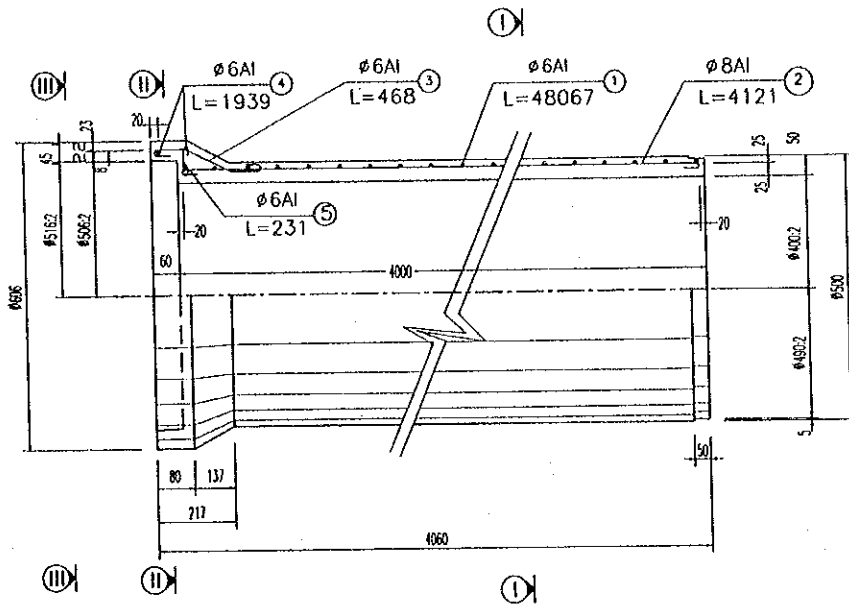
NOTE:

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME K. Nemoto SIGNATURE <i>K. Nemoto</i> DATE 20/9/2000	NAME K. Nakai SIGNATURE <i>K. Nakai</i> DATE 24/9/2000	NAME K. Enomoto SIGNATURE <i>K. Enomoto</i> DATE 5/10/2000	VINH LONG SERVICE AREA STRUCTURAL OF STORM WATER SYSTEM (3/3)	P1/SA/0110

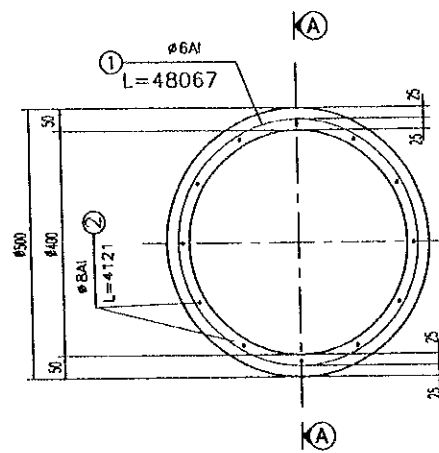
SECTION A-A

SCALE 1:10



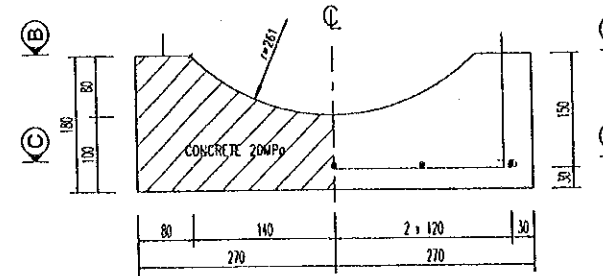
SECTION I - I

SCALE 1:10

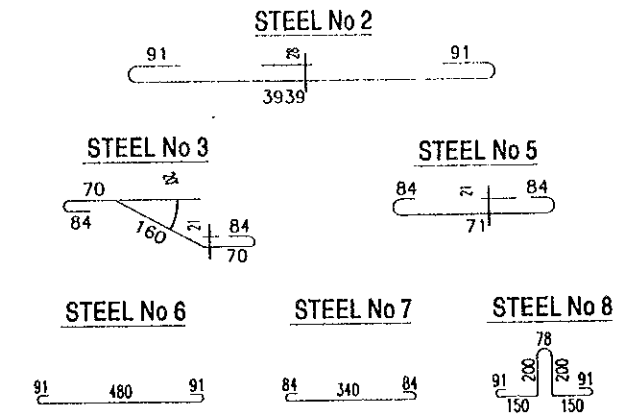


SUPPORT OF PIPE D400

SCALE 1:10

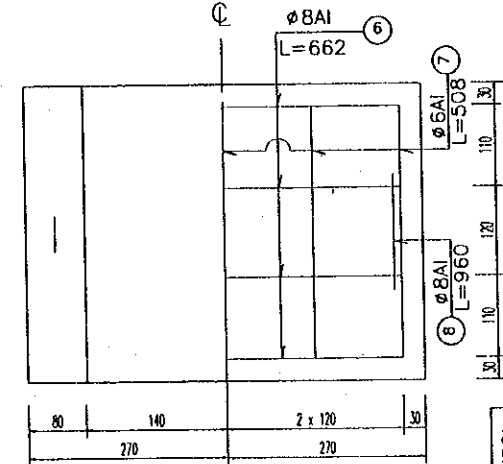


BENDING DIAGRAM



HALF SECTION B-B HALF SECTION C-C

SCALE 1:10



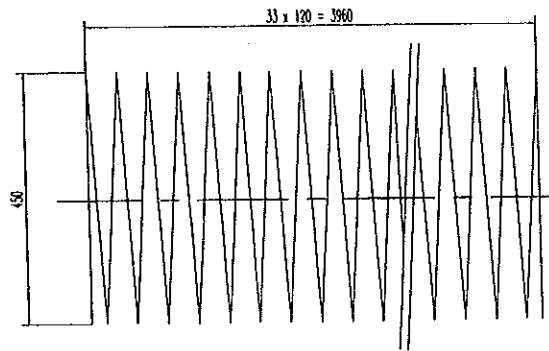
QUANTITY TABLE FOR 1 SUPPORT OF PIPE D400

SYMBOL	DIAMETER OF BAR	LENGTH OF 1 BAR	NUMBER OF BARS	TOTAL LENGTH	TOTAL WEIGHT
⑥	φ8	662	4	3.130	1.050
⑦	φ6	508	4	2.030	0.450
⑧	φ8	960	2	1.920	0.760

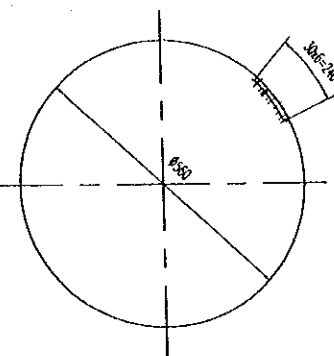
- CONCRETE 20MPa = 0.021m³. - STEEL φ8 = 1.810kg.
- STEEL φ6 = 0.450kg.

BENDING DIAGRAM

STEEL No 1



STEEL No 4



HALF SECTION III - III HALF SECTION II - II

SCALE 1:10

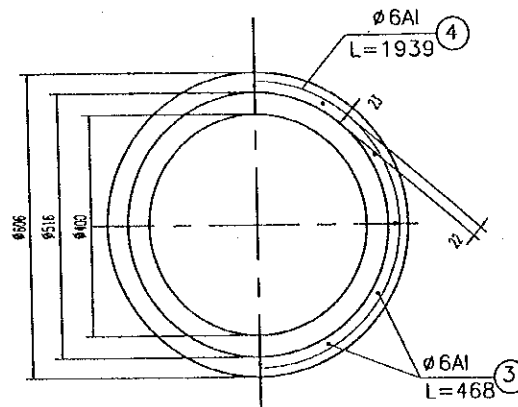
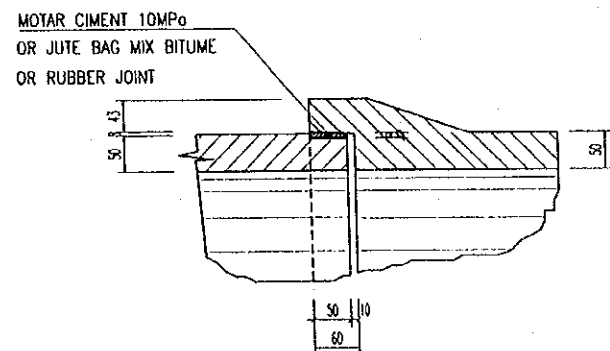


TABLE OF MATERIAL

SYMBOL	DIAMETER (mm)	NUMBER OF BAR	LENGTH OF BAR (mm)	TOTAL LENGTH (m)	TOTAL WEIGHT (kg)	REMARK
①	φ6AI	01	48067	48.067	10.670	
②	φ8AI	11	4121	45.331	17.906	
③	φ6AI	11	468	5.148	1.143	
④	φ6AI	02	1939	3.878	0.860	
⑤	φ6AI	11	231	2.541	0.564	
TOTAL				φ6AI	13.24	
TOTAL OF REBAR (kg)				φ8AI	17.91	
CONCRETE 30MPa				0.300m ³ /01 pipe		

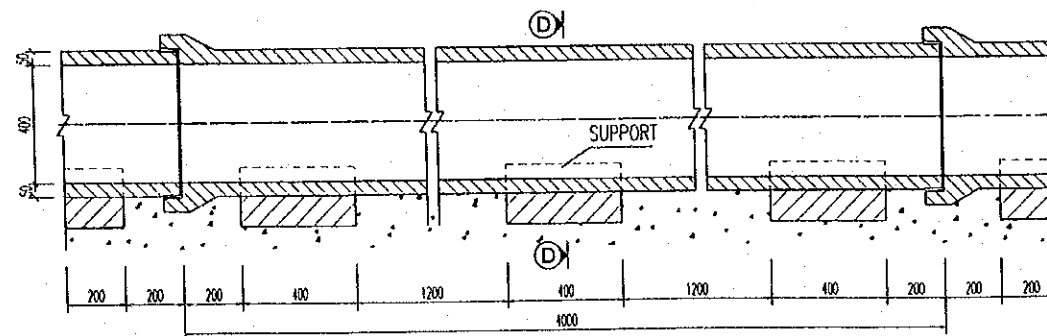
DETAIL OF JOINT PIPE

SCALE 1:10



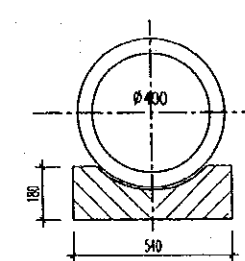
LOCATE SUPPORT OF PIPES

SCALE 1:25



SECTION D - D

SCALE 1:25

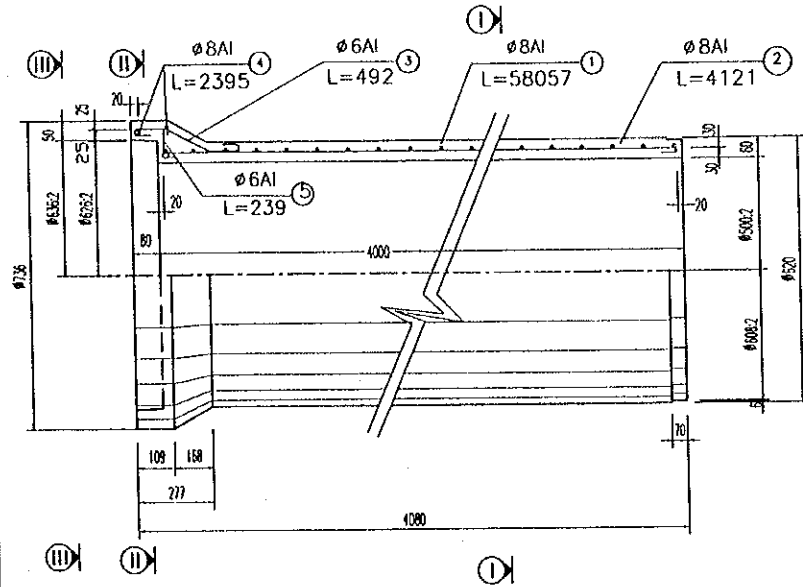


- NOTE**
- 1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
 - 2-THE JUNCTION AT ENDS OF DEFORME BAR IS TO BE FILLED OR TIED (THE OVERLAP IS NOT LESS THAN 300 OF THE BAR)
 - 3-THE HEIGHT OF EMBANKMENT IS MIN 0.5m AND MAX 4.0m.
 - 4-THE SUBGRADE REQUIREMENT IS TO BE KEPT ON SPECIFICATION.
 - 5-LIVE LOAD ALLOWED IS H-30 & HK-80.
 - 6-THE PIPE IS MADE BY CENTRIFUGAL METHOD COMBINED VIBRATING.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	K. Nemoto	K. Nakai	K. Enomoto	VINH LONG SERVICE AREA REINFORCED CONCRETE PIPE Ø400	P1/SA/0120

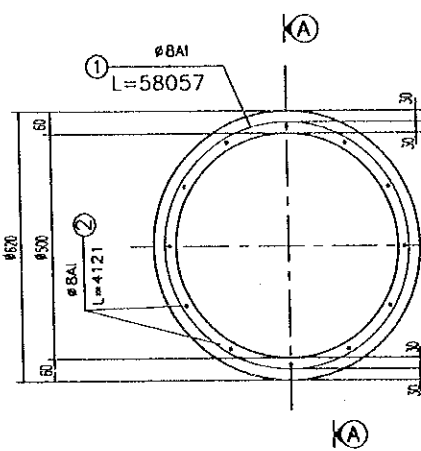
SECTION A-A

SCALE 1:10



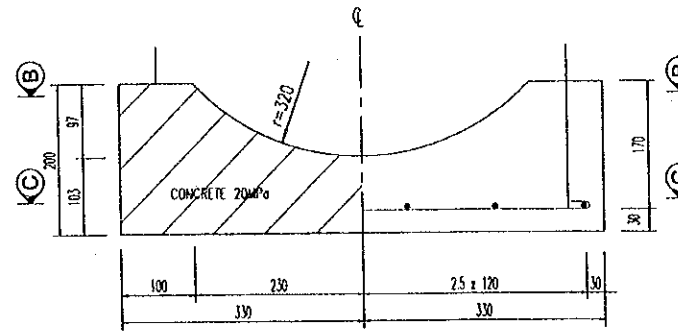
SECTION I-I

SCALE 1:10

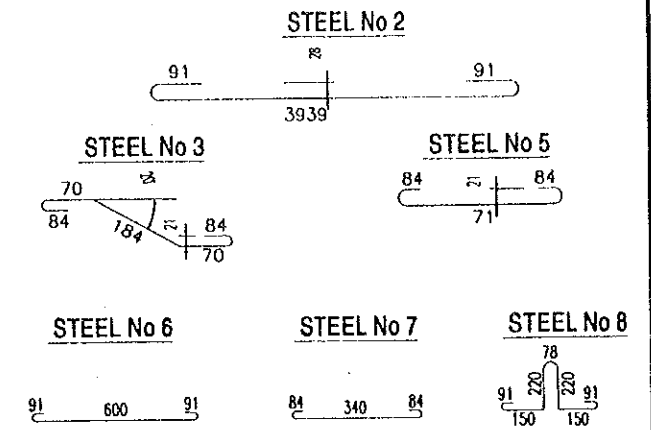


SUPPORT OF PIPE D500

SCALE 1:10



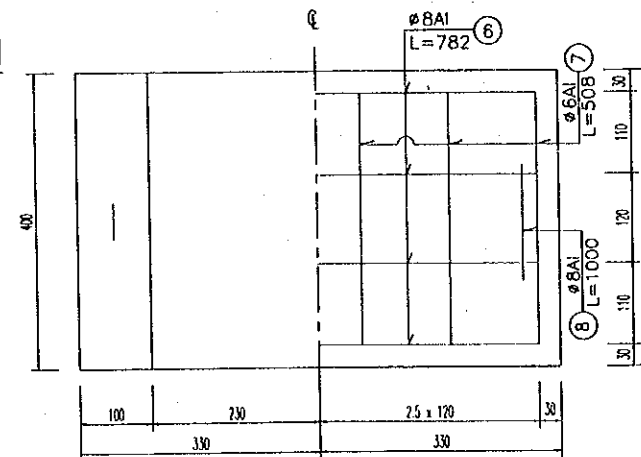
BENDING DIAGRAM



HALF SECTION B-B

HALF SECTION C-C

SCALE 1:100



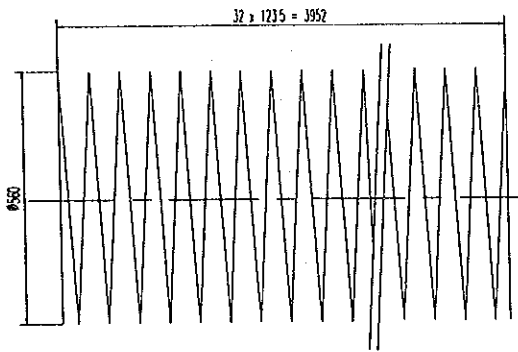
QUANTITY TABLE FOR 1 SUPPORT OF PIPE D500

SYMBOL	DIAMETER OF REBAR	LENGTH OF 1 BAR	NUMBER OF BARS	TOTAL LENGTH	TOTAL WEIGHT
⑥	∅8	782	4	3.13	1.24
⑦	∅6	508	6	3.05	0.68
⑧	∅8	1000	2	2.00	0.79

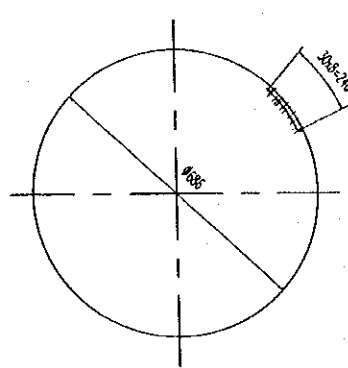
- CONCRETE 20MPa = 0.04m³ . - STEEL ∅8 = 2.03kg.
- STEEL ∅6 = 0.68kg.

BENDING DIAGRAM

STEEL No 1



STEEL No 4



HALF SECTION III - III HALF SECTION II - II

SCALE 1:10

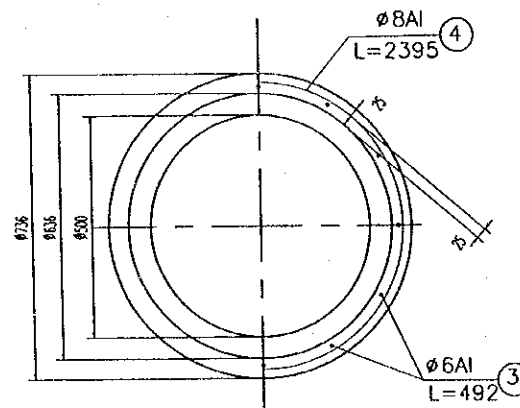
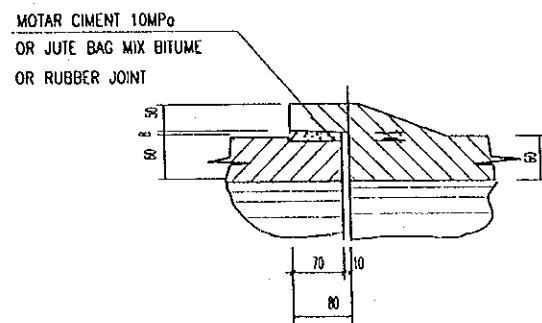


TABLE OF MATERIAL

SYMBOL	DIAMETER (mm)	NUMBER OF BAR (bar)	LENGTH OF 01 BAR (mm)	TOTAL LENGTH (m)	TOTAL WEIGHT (kg)
①	∅8AI	01	58057	58.057	22.932
②	∅8AI	10	4121	41.210	16.278
③	∅6AI	10	492	4.920	1.092
④	∅8AI	02	2395	4.790	1.892
⑤	∅6AI	10	239	2.390	0.530
TOTAL					#6AI 1.622
TOTAL OF REBAR (kg)					#8AI 41.102
CONCRETE 30MPa					0.445m ³ /01 PIPE

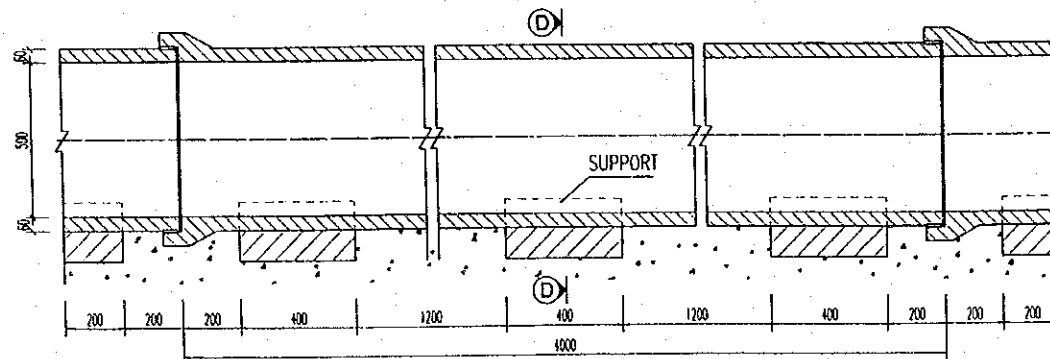
DETAIL OF JOINT PIPE

SCALE 1:10



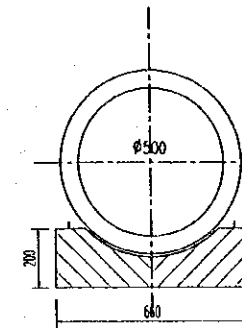
LOCATE SUPPORT OF PIPES

SCALE 1:25



SECTION D-D

SCALE 1:25



NOTE



- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
- THE JUNCTION AT ENDS OF DEFORME BAR IS TO BE FILLED OR TIED (THE OVERLAP IS NOT LESS THAN 30D OF TIE BAR)
- THE HEIGHT OF EMBANKMENT IS MIN 0.5m AND MAX 4.0m.
- THE SUBGRADE REQUIREMENT IS TO BE KEPT ON SPECIFICATION.
- LIVE LOAD ALLOWED IS H-30 & HK-80.
- THE PIPE IS MADE BY CENTRIFUGAL METHOD COMBINED VIBRATING.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	VINH LONG SERVICE AREA REINFORCED CONCRETE PIPE ∅500	P1/SA/0130

P1/BC DRAINAGE SYSTEM



SHEET No :	TITLE :
I	GENERAL
P1/BC/0010	DRAWING LIST
P1/BC/0020	ABBREVIATIONS AND SYMBOLS
P1/BC/0030	STRUCTURAL NOTES
II	GENERAL VIEW AND DETAILS OF CULVERTS
P1/BC/0040	CULVERT SCHEDULE
P1/BC/0050	GENERAL VIEW OF R.C.P CULVERT STATION 0+051.80
P1/BC/0060	GENERAL VIEW OF WING WALL STATION 0+051.80
P1/BC/0070	REINFORCEMENT OF WING WALL STATION 0+051.80
P1/BC/0080	REINFORCEMENT OF HEAD WALL STATION 0+051.80
P1/BC/0090	REINFORCEMENT OF PIPE SEGMENT - 1.50M DIAMETER STATION 0+051.80
P1/BC/0100	REINFORCEMENT OF CRADLE - R.C.P 1.50M DIAMETER STATION 0+051.80
P1/BC/0110	GENERAL VIEW OF BOX CULVERT STATION 0+183.70
P1/BC/0120	GENERAL VIEW OF WING WALL STATION 0+183.70
P1/BC/0130	REINFORCEMENT OF WING WALL STATION 0+183.70
P1/BC/0140	REINFORCEMENT OF CULVERT STATION 0+183.70 - SHEET1
P1/BC/0150	REINFORCEMENT OF CULVERT STATION 0+183.70 - SHEET2
P1/BC/0160	GENERAL VIEW OF BOX CULVERT STATION 0+369.50
P1/BC/0170	GENERAL VIEW OF WING WALL STATION 0+369.50
P1/BC/0180	REINFORCEMENT OF WING WALL TYPE I STATION 0+369.50
P1/BC/0190	REINFORCEMENT OF WING WALL TYPE II STATION 0+369.50
P1/BC/0200	REINFORCEMENT OF CULVERT STATION 0+369.50 - SHEET 1
P1/BC/0210	REINFORCEMENT OF CULVERT STATION 0+369.50 - SHEET 2
P1/BC/0220	GENERAL VIEW OF BOX CULVERT STATION 1+063.20
P1/BC/0230	GENERAL VIEW OF WING WALL STATION 1+063.20
P1/BC/0240	REINFORCEMENT OF WING WALL TYPE I STATION 1+063.20
P1/BC/0250	REINFORCEMENT OF WING WALL TYPE II STATION 1+063.20
P1/BC/0260	REINFORCEMENT OF WING WALL TYPE III STATION 1+063.20
P1/BC/0270	REINFORCEMENT OF CULVERT STATION 1+063.20
P1/BC/0280	REINFORCEMENT OF RETAINING WALL STATION 1+063.20
P1/BC/0290	GENERAL VIEW OF BOX CULVERT STATION 1+300
P1/BC/0300	REINFORCEMENT OF CULVERT STATION 1+300
P1/BC/0310	GENERAL VIEW OF BOX CULVERT STATION 1+560
P1/BC/0320	GENERAL VIEW OF WING WALL STATION 1+560
P1/BC/0330	REINFORCEMENT OF WING WALL STATION 1+560
P1/BC/0340	REINFORCEMENT OF CULVERT STATION 1+560

SHEET No :	TITLE :
P1/BC/0350	GENERAL VIEW OF BOX CULVERT STATION 2+150
P1/BC/0360	GENERAL VIEW OF WING WALL STATION 2+150
P1/BC/0370	REINFORCEMENT OF WING WALL STATION 2+150
P1/BC/0380	REINFORCEMENT OF CULVERT STATION 2+150
P1/BC/0390	GENERAL VIEW OF BOX CULVERT STATION 2+620
P1/BC/0400	GENERAL VIEW OF WING WALL STATION 2+620
P1/BC/0410	REINFORCEMENT OF WING WALL TYPE I STATION 2+620
P1/BC/0420	REINFORCEMENT OF WING WALL TYPE II STATION 2+620
P1/BC/0430	REINFORCEMENT OF WING WALL TYPE III STATION 2+620
P1/BC/0440	REINFORCEMENT OF CULVERT STATION 2+620
P1/BC/0450	REINFORCEMENT OF RETAINING WALL STATION 2+620
P1/BC/0460	GENERAL VIEW OF BOX CULVERT STATION 2+835
P1/BC/0470	REINFORCEMENT OF CULVERT STATION 2+835
P1/BC/0480	GENERAL VIEW OF BOX CULVERT STATION 3+170
P1/BC/0490	REINFORCEMENT OF CULVERT STATION 3+170
P1/BC/0500	GENERAL VIEW OF BOX CULVERT STATION 4+125
P1/BC/0510	REINFORCEMENT OF CULVERT STATION 4+125
P1/BC/0520	GENERAL VIEW OF BOX CULVERT STATION 4+318
P1/BC/0530	GENERAL VIEW OF WING WALL STATION 4+318
P1/BC/0540	REINFORCEMENT OF WING WALL STATION 4+318
P1/BC/0550	REINFORCEMENT OF CULVERT STATION 4+318 - SHEET1
P1/BC/0560	REINFORCEMENT OF CULVERT STATION 4+318 - SHEET2
P1/BC/0570	GENERAL VIEW OF BOX CULVERT STATION 4+640
P1/BC/0580	GENERAL VIEW OF WING WALL STATION 4+640
P1/BC/0590	REINFORCEMENT OF WING WALL TYPE I STATION 4+640
P1/BC/0600	REINFORCEMENT OF WING WALL TYPE II STATION 4+640
P1/BC/0610	REINFORCEMENT OF WING WALL TYPE III STATION 4+640 - SHEET 1
P1/BC/0620	REINFORCEMENT OF WING WALL TYPE III STATION 4+640 - SHEET 2
P1/BC/0630	REINFORCEMENT OF CULVERT STATION 4+640
P1/BC/0640	REINFORCEMENT OF RETAINING WALL STATION 4+640
P1/BC/0650	GENERAL VIEW OF BOX CULVERT - INTERCHANGE 2 RAMP "D" STATION 0+300
P1/BC/0660	REINFORCEMENT OF CULVERT - INTERCHANGE 2 RAMP "D" STATION 0+300
P1/BC/0670	DETAIL OF CONNECTION JOINT AND CONNECTION BETWEEN BOX AND WING WALL
P1/BC/0680	TOTAL QUANTITIES TABLE OF ALL CULVERTS

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	 NIPPON KOEI CO.,LTD.	NAME K. Nemoto SIGNATURE <i>K. Nemoto</i> DATE 20/9/2000	NAME K. Nakai SIGNATURE <i>K. Nakai</i> DATE 29/9/2000	NAME K. Enomoto SIGNATURE <i>K. Enomoto</i> DATE 5/10/2000	DRAWING LIST	P1/BC/0010

ABBREVIATIONS AND SYMBOLS

⊙	AT
&	AND
BC	BOX CULVERT
℄	CENTERLINE
CM	CENTIMETER
C.J	CONSTRUCTION JOINT
DIA or ⌀	DIAMETER
ELEV	ELEVATION
H	HEIGHT
D.F.WL	DATUM FLOODED WATER LEVEL
KG	KILOGRAM
KM	KILOMETER
M	METER
M ²	SQUARE METER
M ³	CUBIC METER
MAX	MAXIMUM
MIN	MINIMUM
%	PERCENT
P.C	PIPE CULVERT
R.C	REINFORCED CONCRETE
RW	RETAINING WALL
STA	STATION
T	THICKNESS
W	WIDTH

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	 NIPPON KOEI CO.,LTD.	NAME K. Nemoto SIGNATURE <i>K. Nemoto</i> DATE 20/9/2000	K. Nakai <i>K. Nakai</i> 29/9/2000	K. Enomoto <i>K. Enomoto</i> 5/10/2000	ABBREVIATIONS AND SYMBOLS	P1/BC/0020

STRUCTURAL NOTES

1. GENERAL

- 1.1. UNLESS OTHERWISE NOTED THESE NOTES ARE APPLIED TO ALL DRAWINGS.
- 1.2. THE SCALE INDICATED IN DRAWINGS IS FOR 'A3' SIZE.
- 1.3. ALL CHAINAGES, COORDINATES, ELEVATIONS ARE IN METRES. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED.
- 1.4. THE ELEVATION SYSTEM IS REFERED TO THE MEAN SEA DATUM ELEVATION AT HONDAU -- DO SON. COORDINATE IS REFERED TO THE NATIONAL GRID SYSTEM.

2. DESIGN CRITERIA & LOADS

- 2.1. DESIGN STANDARDS:
 - AASHTO 98 - LRFD BRIDGE DESIGN SPECIFICATIONS
 - AASHTO GUIDE SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF SEGMENTAL CONCRETE BRIDGES
 - VIETNAMESE HIGHWAY BRIDGES STANDARDS 1979

3. CONCRETE

- 3.1. UNLESS OTHERWISE INDECATED CONCRETE SHALL BE OF THE FOLLOWING GRADES BASED ON 28 DAY CYLINDER STRENGTH f_c :

CONCRETE CLASS	STRENGTH f_c MPa	KIND OF STRUCTURE IN USE
E	24	BOX CULVERT, PIPE CULVERT RETAINING WALL, WINGWALL, SUPPORT OF PIPE, DROP INLET, CATCH PIT, COVER
F	20	APRON, KERB
G	15	LEAN CONCRETE

- 3.2. WHEREVER FORMS ARE NOT USED REINFORCED CONCRETE SHALL BE PLACED AGAINST 100 MM MINIMUM THICKNESS LEAN CONCRETE.

- 3.3. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 20x20 MM UNLESS OTHERWISE NOTED.

- 3.4. ALL CONSTRUCTION JOINTS ARE TO BE LOCATED AS SHOWN ON THE DRAWINGS OR AS ENGINEER'S APPROVAL.

4. REINFORCEMENT

- 4.1. REINFORCEMENT SHALL BE DEFORMED, EXCEPT THAT PLAIN BARS AS SHOWN ON DRAWING.

- 4.2. REINFORCEMENT SHALL BE ASTM A615 OR EQUIVALENT. PLAIN ROUND BAR WITH $f_y(\min)$ 250 MPa AND HIGH YIELD DEFORMED BARS WITH YIELD STRENGTH NOT LESS THAN $f_y(\min)$ 390 MPa SHALL BE USED.

- 4.3. REINFORCEMENT IS NOTED ON THE DRAWINGS AS FOLLOWS:

DIA OF BAR D25 - 0250 (D)
 _____ NAME OF BAR

- 4.4. ALL REINFORCEMENTS ARE SHOWN AS _____

- 4.5. SPLICES IN ADJACENT BARS SHALL BE STAGGERED EXCEPT WHERE NOTED ON THE DRAWINGS. SPLICES OTHER THAN THOSE SHOWN ON THE DRAWINGS MAY ONLY BE MADE WITH THE ENGINEER'S APPROVAL.

- 4.6. MINIMUM SPLICE LENGTH SHALL BE IN ACCORDANCE WITH AASHTO LRFD 98.

- 4.7. STANDARD HOOKS AND MINIMUM BEND DIAMETER SHALL BE IN ACCORDANCE WITH AASHTO LRFD 98.

- 4.8. REINFORCEMENTS INDECATED AS RANDOM LENGTH MAY BE LAP SPLICED AS NECESSARY SUBJECT TO THE FOLLOWING CONDITIONS:

- A) LAP SPLICES IN ADJACENT BARS SHALL BE STAGGERED
- B) MINIMUM LAP LENGTHS SHALL BE IN ACCORDANCE WITH AASHTO LRFD 98.
- C) NOT MORE THAN ONE BAR PER LINE IS TO BE SHORTER THAN 12 METRES FOR ALL

- 4.9. UNLESS OTHERWISE INDECATED ON THE DRAWINGS, THE MINIMUM COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:

50 MM WINGWALL, BOX CULVERT etc...
TOLERANCE ON COVER IS +/-5MM

5. STONE MASONRY:

- MOTAR: 10 MPa.

6. THE OTHER SPECIFIED IS TO BE KEPT

- 6.1. THE BOX CULVERTS FOR PATH AND DRAINAGE STRUCTURE OF PATH AS FOLLOWING:
 - BED COURES : SAND FILL THE HEIGHT IS VARIED 0.7M-1.4M
 - UPPER LAYER (SUPPER STRATUM) : LATERITE 40CM
 - DEGREE OF COMPACTION $K=0.98$

- 6.2. GROUND WORK OF BOX CURVERT:
 - 15 CM SAND BEDDING
 - 20 CM CONCRETE CLASS F



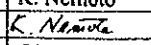

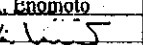
- 6.3. GROUND WORK OF WINGWALL, APRON :
 - 15 CM BEDDING
 - 10 CM CONCRETE CLASS G

- 6.4. TO CONSOLIDATE FOR FOUNDATION OF CULVERT THE LENGHT OF WOODPILE IS VARIED AS FOLLOWING:
 - 5 M UNDER BARREL OF BOX AND PIPE CULVERT, WINGWALL
 - 3 M UNDER APRON, PATH AND TOE OF SLOPE.

- 6.5. AT THE CULVERTS HAVE THE HEIGHT OF BARREL > 1.5 M. TO PROTECT SIDE SLOPE FOR BOTH SIDE OF WINGWALL STONE MASONRY IS TO BE USED THE LENGHT OF PROTECTION : 5 M FROM THE END OF WINGWALL

- 6.6. QUANTITES OF TRENCH CUT AND BACKFILL OF BOX CULVERT IS CALCULATED IN ALLIGMENT DOCUMENT.

D:\project\CANJHO 2-9-2000\P1-DRAINAGE SYSTEM\P1-BC-0030.dwg Thu Aug 31 08:18:25 2000 TRAN TRONG AN

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	 NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE:  DATE: 20/9/2000	NAME: K. Nakai SIGNATURE:  DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE:  DATE: 5/10/2000	STRUCTURAL NOTES	P1/BC/0030

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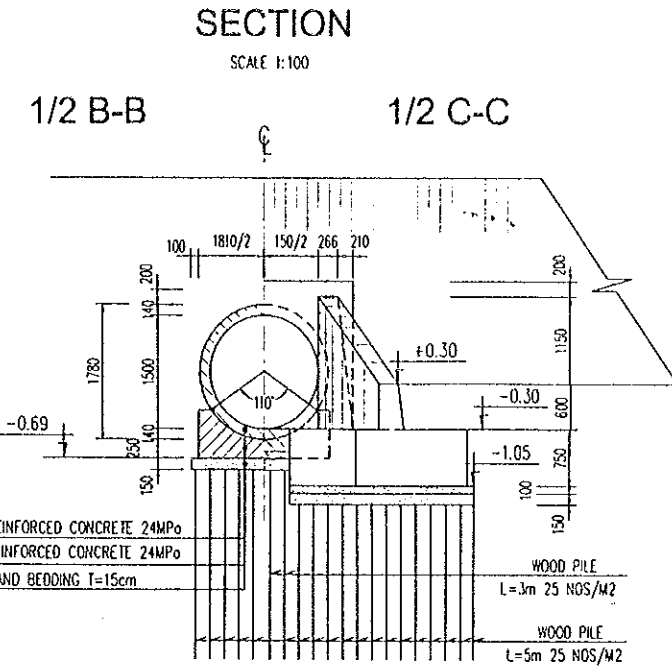
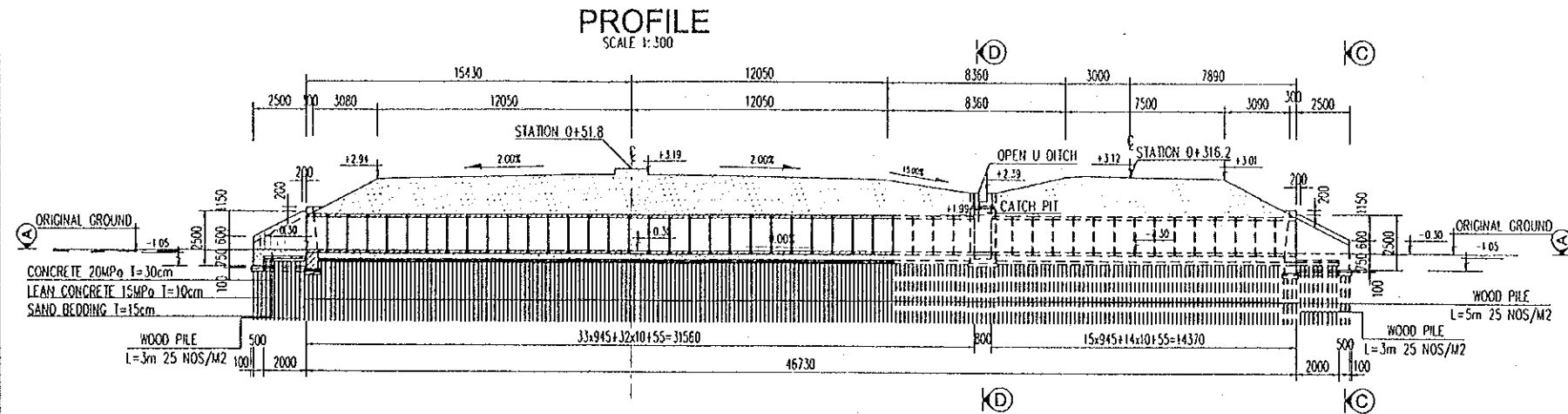
STRUCTURE SCHEDULE OF CULVERT VINH LONG SIDE

STATION : FROM KM0+(-500) TO KM 4+660

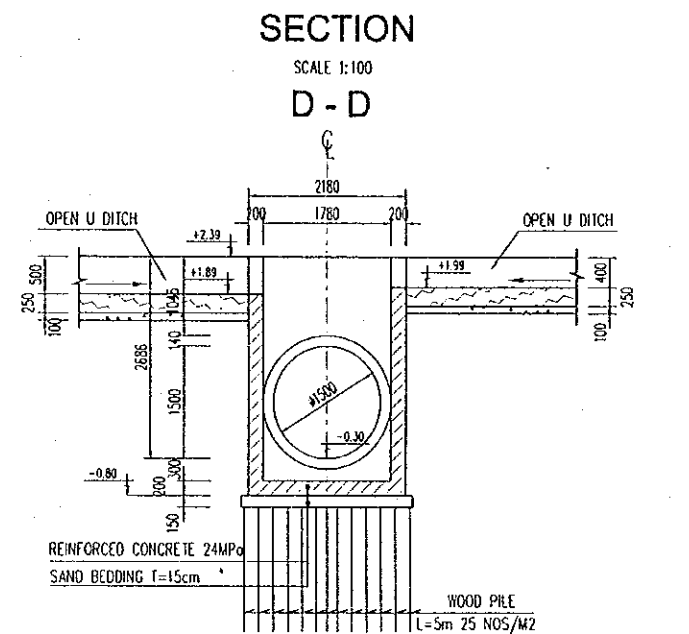
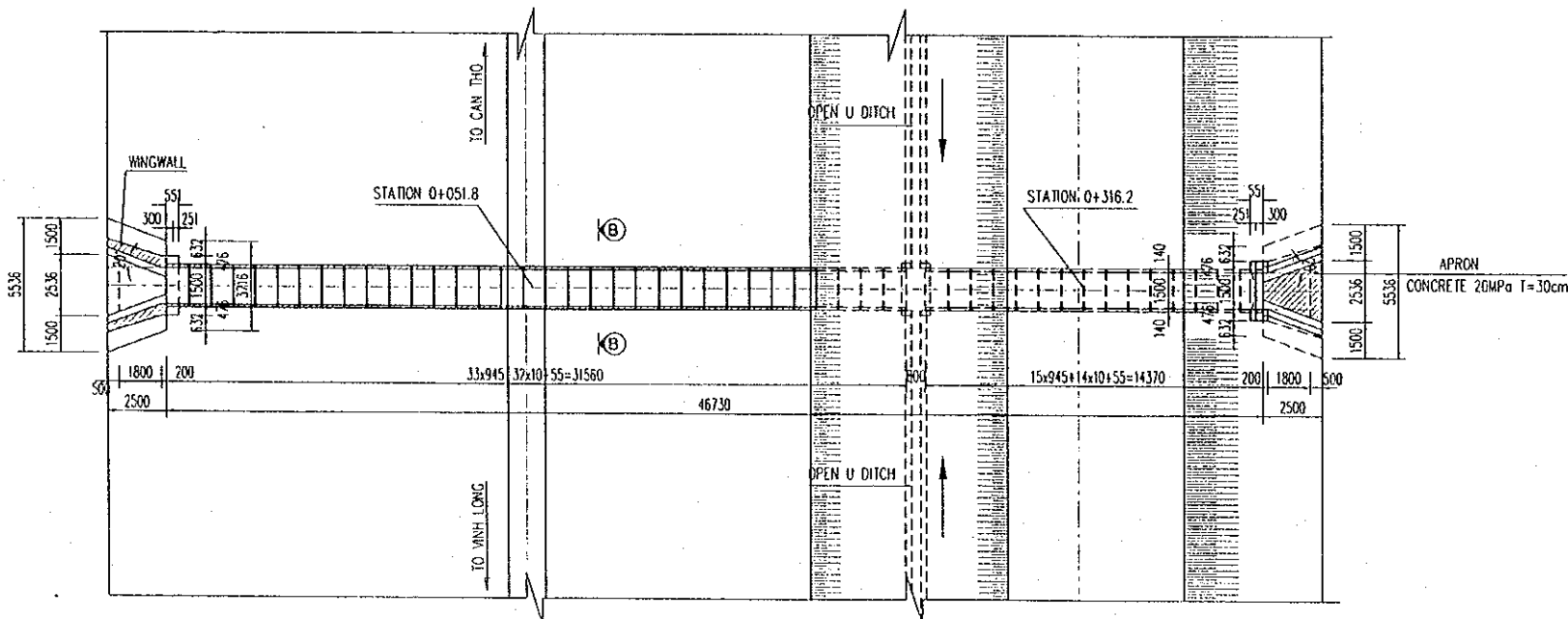
No	Station	Dimension W x H (m)	Type	Segments	Length (m)			Finished elevation (m)			Bottom elevation (m)	Skew Angle α(°)	Remarks
					Left	Right	Total	Left	Center	Right			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
I	MAIN ROUTE												
1.	Km 0+51.8	ø1.5	Single	48	15.43	31.30	46.73	2.94	3.19	3.01	-0.3		For drainage
2	Km 0+183.7	3.0 x 3.2	Single	4	13.35	30.35	43.79	2.94	3.19	3.06	-1.06		For drainage
3	Km 0+369.5	3.0 x 3.2	Single	4	16.22	35.83	52.05	3.94	4.20	3.17	-1.06	75R	For drainage
4	Km 1+063.2	5.0 x 4.5	Single	2	13.14	14.69	27.83	5.34	5.58	5.34	-0.06	75R	For path & drainage
5	Km 1+300	2.5 x 1.5	Double	2	13.35	13.35	26.70	2.37	2.62	2.37	0.12		For drainage
6	Km 1+560	3.0 x 3.50	Single	2	13.42	13.42	26.84	4.28	4.52	4.28	-0.06		For drainage
7	Km 2+150	2.5 x 2.0	Double	2	13.35	13.35	26.70	2.81	3.05	2.81	0.06		For drainage
8	Km 2+620	5.0 x 3.8	Single	2	16.27	13.44	29.71	5.30	5.57	5.30	0.64	64L	For path & drainage
9	Km 2+835	2.5 x 2.0	Double	2	19.37	19.51	38.88	3.91	4.23	3.90	0.14		For drainage
10	Km 3+170	2.5 x 1.5	Double	2	13.59	13.59	27.19	2.50	2.75	2.50	0.13		For drainage
11	Km 4+125	2.5 x 1.5	Double	2	14.40	14.40	28.80	3.24	3.48	3.24	0.46		For drainage
12	Km 4+318	5.0 x 4.5	Double	2	13.78	23.78	37.56	4.51	4.75	4.30	-1.06		For drainage
13	Km 4+640	6.5 x 4.5	Single	2	13.41	25.23	38.64	5.50	5.75	5.35	-0.06	65R	For path & drainage
II	INTERCHANGE 2												
1	Ramp "A" - Km 0+300	2.5x1.5	Single	1			10.12	2.56	2.67	2.57	0.31		For drainage
2	Ramp "B" - Km 0+220	2.5x1.5	Single	1			10.12	2.52	2.63	2.53	0.27		For drainage
3	Ramp "C" - Km 0+240	2.5x1.5	Single	1			10.12	2.59	2.70	2.60	0.34		For drainage
4	Ramp "D" - Km 0+300	2.5x1.5	Single	1			10.12	2.52	2.63	2.53	0.27		For drainage

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				SIGNATURE	<i>K. Nemoto</i>	<i>K. Nakaj</i>	<i>K. Enomoto</i>		
				DATE	20/9/2000	29/9/2000	5/10/2000		

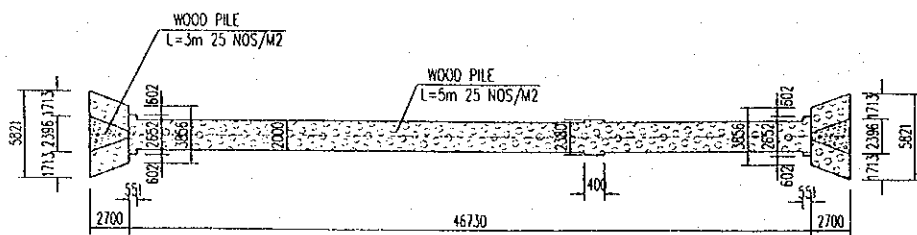
GENERAL VIEW OF R.C.P CULVERT FOR DRAINAGE (STATION 0+51.80)



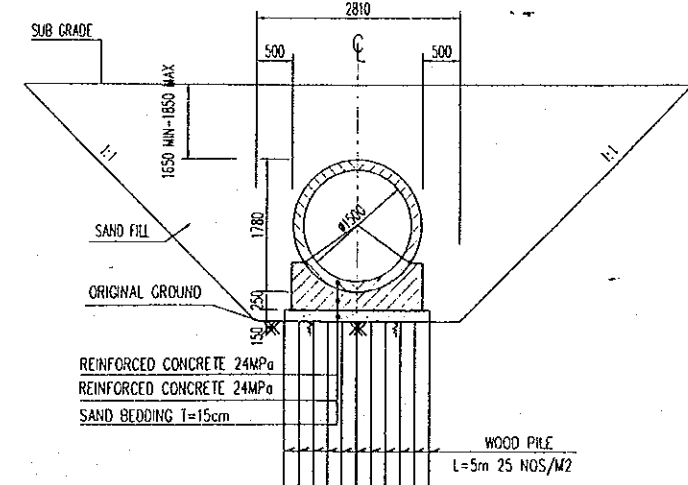
1/2 A-A SCALE 1:300 1/2 PLAN SCALE 1:300



PLAN LAYOUT OF WOOD PILE SCALE 1:500

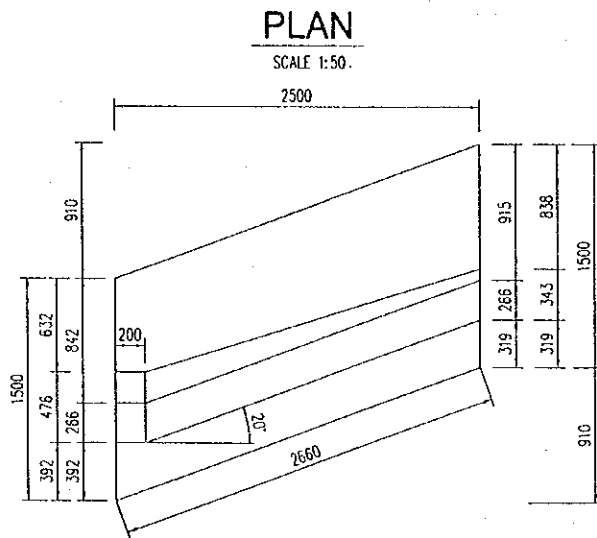
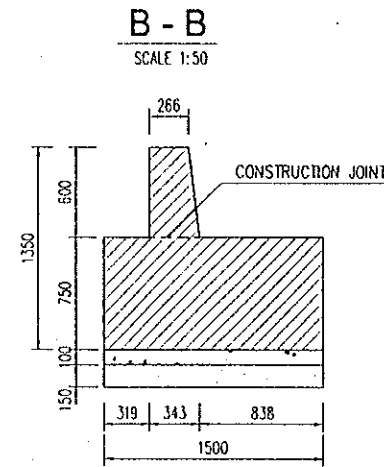
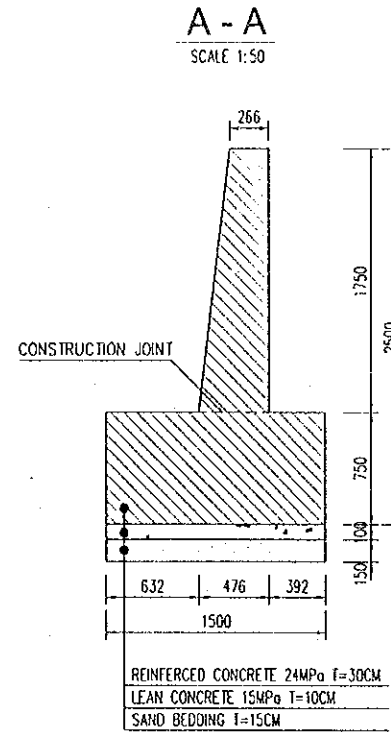
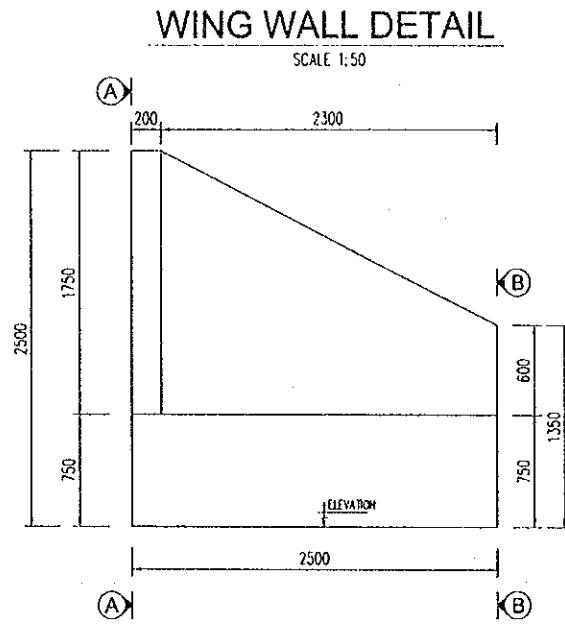


PIPE BEDDING SCALE 1:100



- NOTES :
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 - 2- ELEVATIONS ARE IN METERS IN REFERENCE TO THE NATIONAL DATUM LEVEL.
 - 3- DETAIL CATCH PIT IS SHOW IN THE DOCUMENT OF APPROACH ROAD.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	K. Nemoto	K. Nakai	K. Enomoto	GENERAL VIEW OF R.C.P CULVERT STATION 0 + 51.80	P1/BC/0050
				DATE 20/9/2000	DATE 29/9/2000	DATE 5/10/2000		



- NOTES :
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 - 2- THIS WING WALL IS USED FOR CULVERTS AT STATIONS IN THE TABLE.

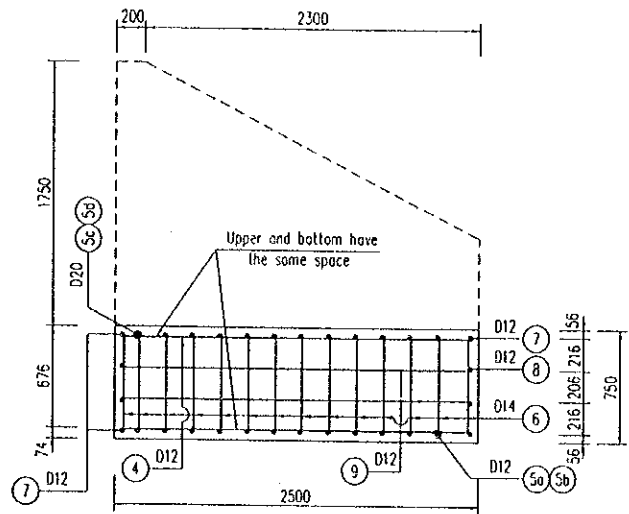
No	STATION	ELEVATION
01	0+051.80	-1.05
02	1+300	-0.63
03	3+170	-0.62
04	4+125	-0.29
05	INTERCHANGE 2 RAMP "A" - KM 0+300	-0.44
06	INTERCHANGE 2 RAMP "B" - KM 0+220	-0.48
07	INTERCHANGE 2 RAMP "C" - KM 0+240	-0.41
08	INTERCHANGE 2 RAMP "D" - KM 0+300	-0.48

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	GENERAL VIEW OF WINGWALL STATION 0+51.8	P1/BC/0060

\\an\centho 9-200\Drawings4\P1-Vinh long side\P1-BC-0070.dwg Fri Sep 01 14:17:35 2000 DRAWN BY ANH DUNG

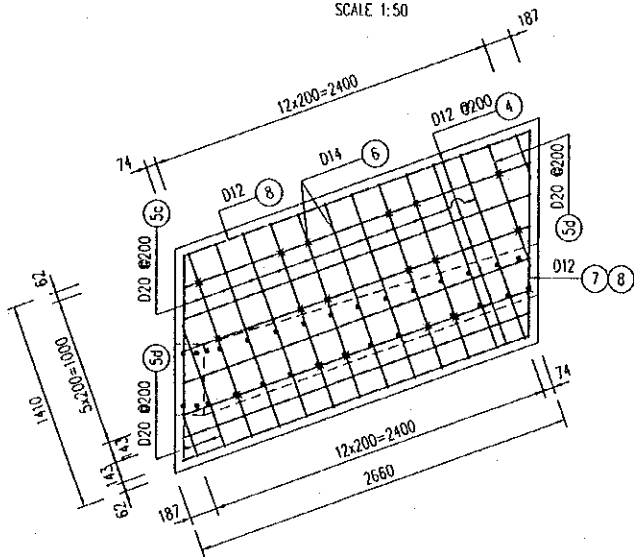
REINFORCEMENT OF FOOTING

SCALE 1:50



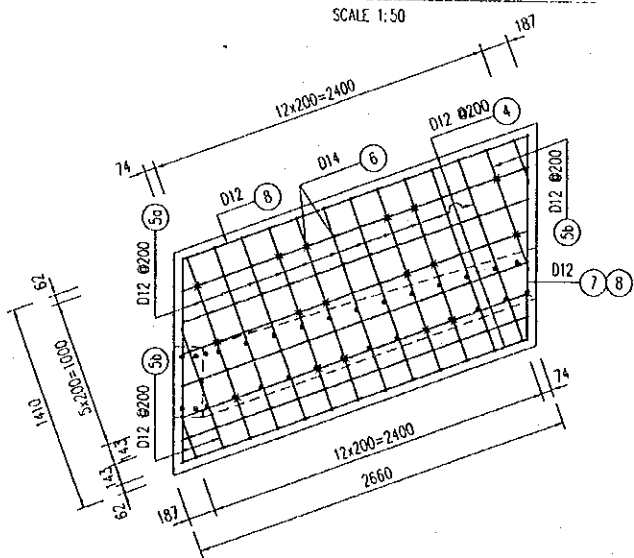
TOP REINFORCEMENT

SCALE 1:50



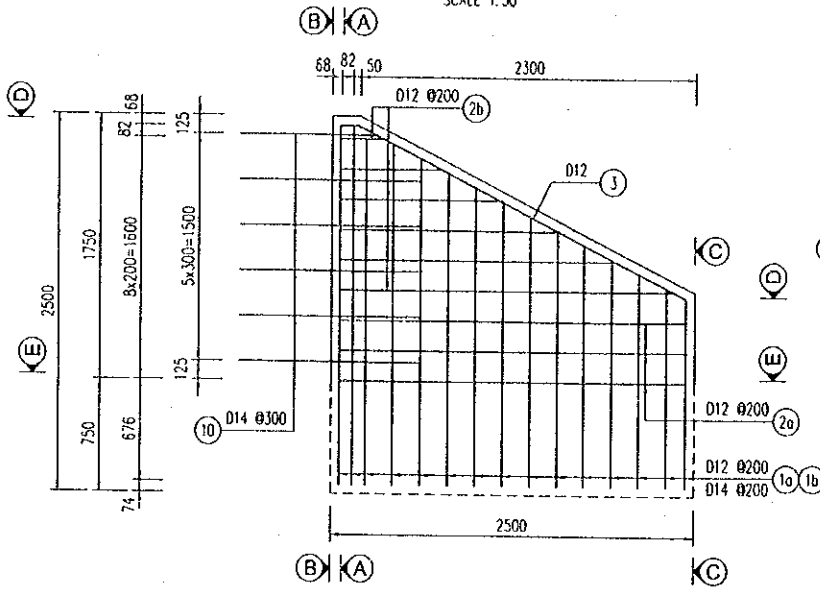
BOTTOM REINFORCEMENT

SCALE 1:50



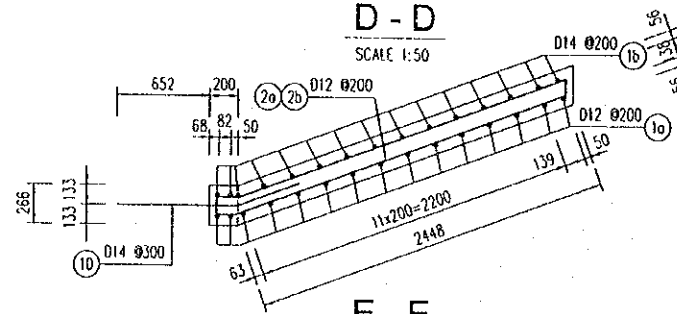
REINFORCEMENT OF WING WALL

SCALE 1:50



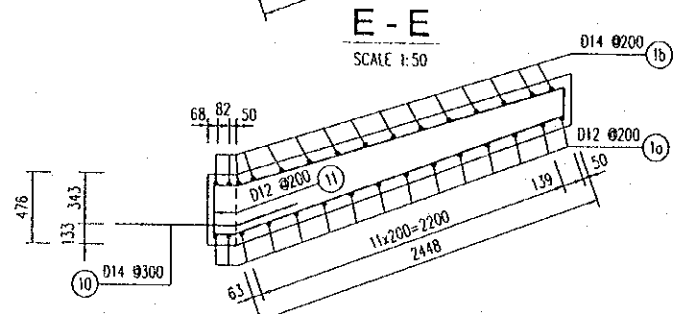
D - D

SCALE 1:50



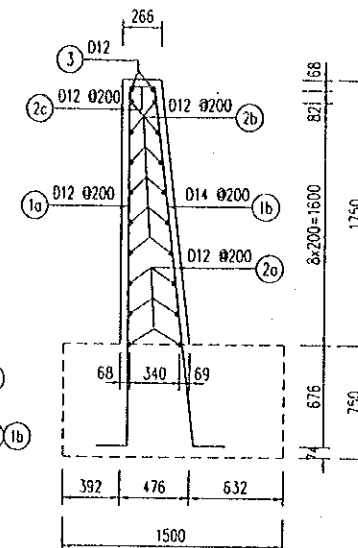
E - E

SCALE 1:50



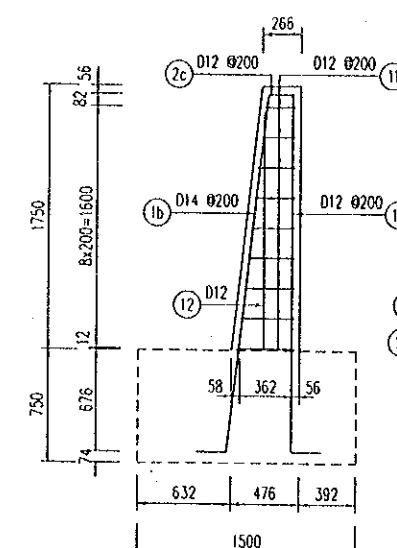
A - A

SCALE 1:50



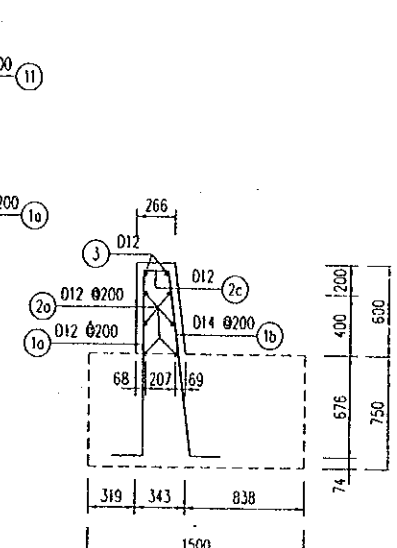
B - B

SCALE 1:50



C - C

SCALE 1:50



QUANTITIES TABLE

BAR MARK	UNIT LENGTH	DIAMETER	NUMBER OF BAR	UNIT WEIGHT	TOTAL LENGTH	TOTAL WEIGHT
	(MM)			(MM)		
1a	2011	12	15	0.888	30.2	26.8
1b	2060	14	15	1.208	30.9	37.3
2a	2651	12	6	0.888	15.9	14.1
2b	1552	12	12	0.888	18.6	16.5
2c	582	12	15	0.888	8.7	7.8
3	3005	12	2	0.888	6.0	5.3
4	3378	12	16	0.888	54.0	48.0
5a	3824	12	11	0.888	42.1	37.3
5b	1867	12	4	0.888	7.5	6.6
5c	3248	20	11	2.466	35.7	88.1
5d	1291	20	4	2.466	5.2	12.7
6	2444	14	8	1.208	19.6	23.6
7	1814	12	4	0.888	7.3	6.4
8	1814	12	4	0.888	7.3	6.4
9	2554	12	4	0.888	10.2	9.1
10	1304	14	5	1.208	6.5	7.9
11	724	12	9	0.888	6.5	5.8
12	1791	12	1	0.888	1.8	1.6
CONCRETE :				3.79 M ³		
REINFORCEMENT :				D=14	260.7 KG	
REINFORCEMENT :				14<D<=25	100.8 KG	
TOTAL REINFORCEMENT :					361.5 KG	

No	STATION
01	0+051.80
02	01+300
03	03+170
04	04+125
05	INTERCHANGE 2 RAM "A" - KM 0+300
06	INTERCHANGE 2 RAM "B" - KM 0+220
07	INTERCHANGE 2 RAM "C" - KM 0+240
08	INTERCHANGE 2 RAM "D" - KM 0+300

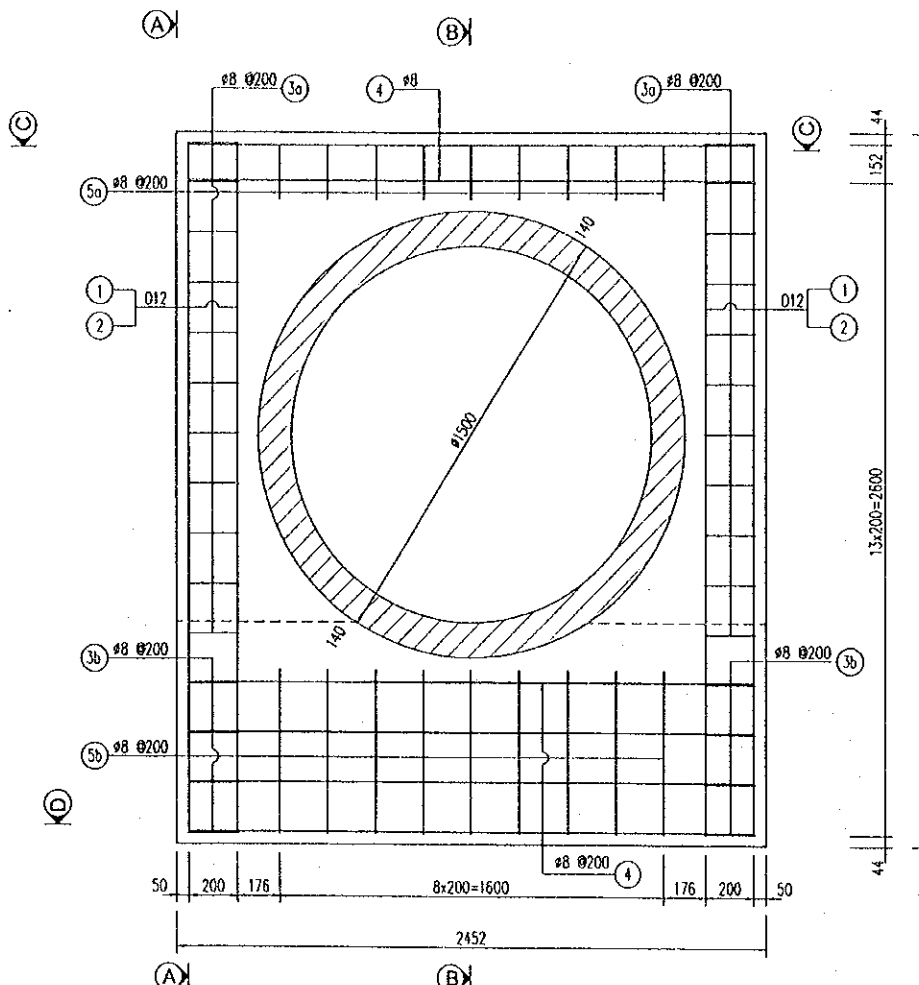
NOTES :

- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- THE QUANTITIES TABLE IS ONLY CALCULATED FOR ONE WING WALL.
- THIS WING WALL IS USED FOR BOX CULVERTS AT STATIONS IN THE RIGHT TABLE.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPON KOEI CO., LTD.	K. Nemoto	K. Nakai	K. Enomoto	REINFORCEMENT OF WINGWALL STATION 0+051.8	PI/BC/0070
				NAME	DATE	DATE		
				K. Nemoto	20/9/2000	29/9/2000		

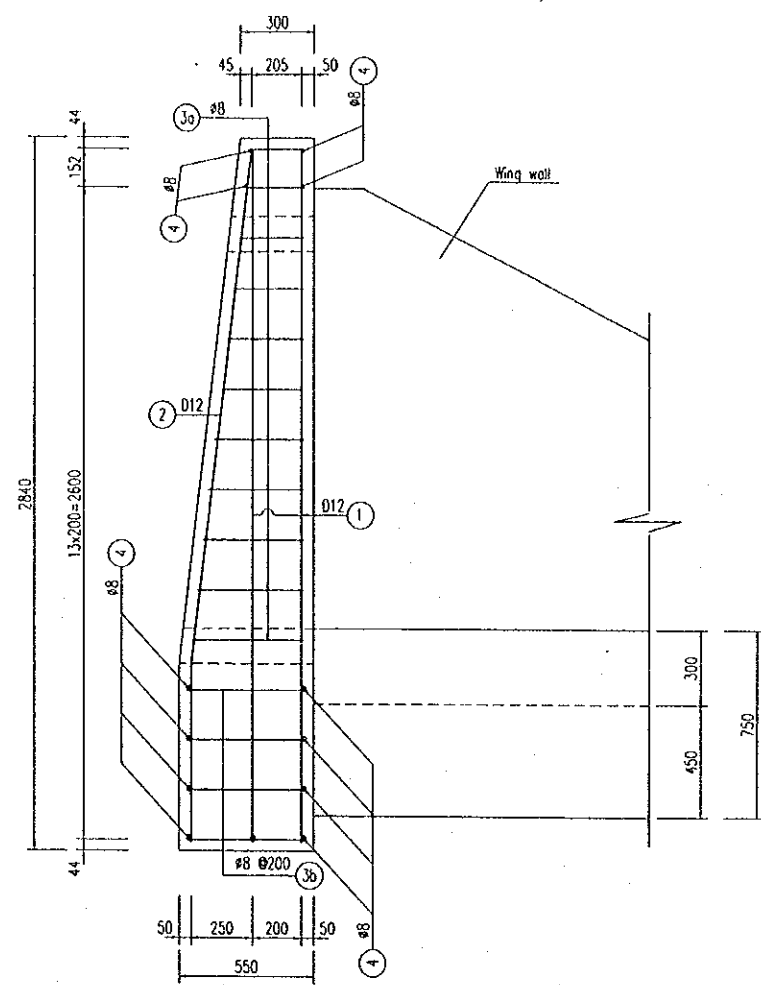
REINFORCEMENT OF HEAD WALL

(SCALE 1:30)



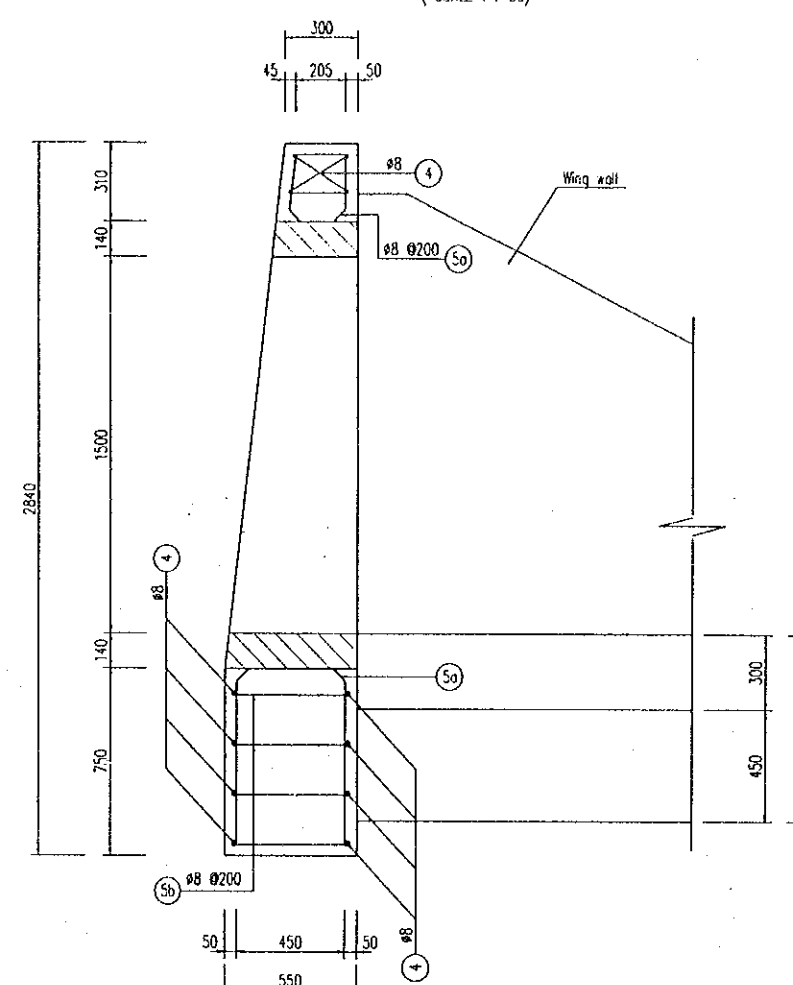
A - A

(SCALE 1:30)



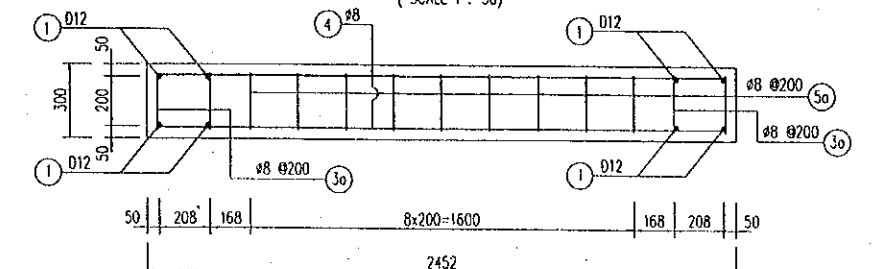
B - B

(SCALE 1:30)



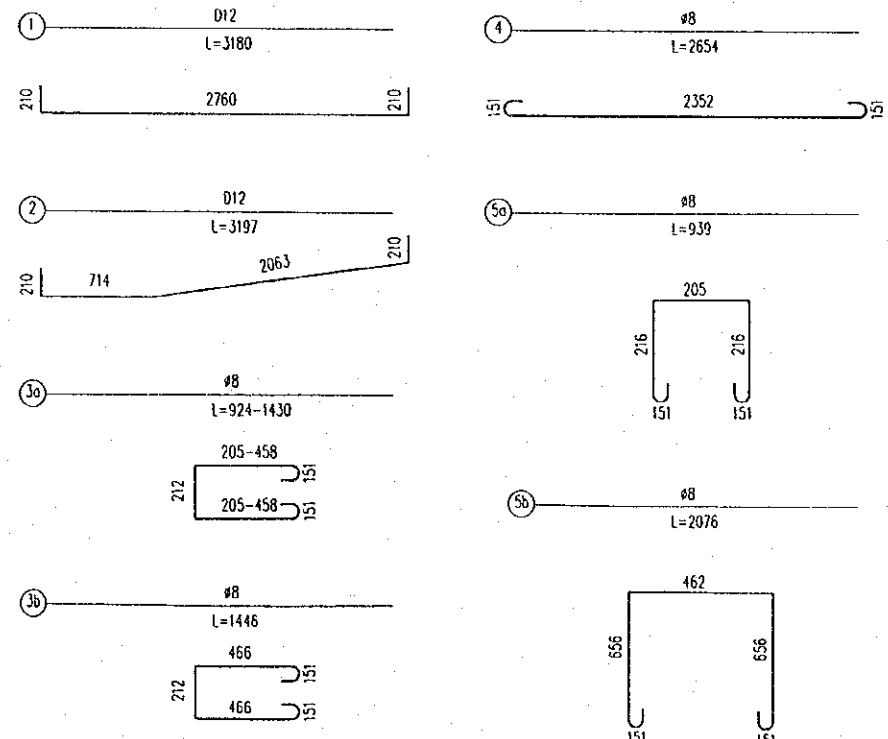
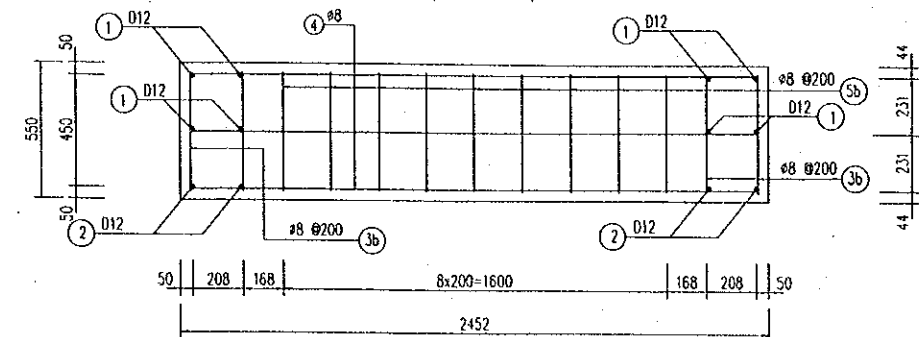
C - C

(SCALE 1:30)



D - D

(SCALE 1:30)



QUANTITIES TABLE

BAR MARK	UNIT LENGTH (MM)	DIAMETER (MM)	NUMBER OF BAR	UNIT WEIGHT (KG/M)	TOTAL LENGTH (M)	TOTAL WEIGHT (KG)
1	3180	12	8	0.888	25.4	22.59
2	3197	12	4	0.888	12.8	11.35
3a	1177	8	22	0.395	25.9	10.22
3b	1446	8	8	0.395	11.6	4.56
4	2654	8	13	0.395	34.5	13.61
5a	939	8	9	0.395	8.5	3.33
5b	2076	8	9	0.395	18.7	7.37
TOTAL	CONCRETE : 1.92 M3			REINFORCEMENT :		73.04 KG

NOTES:

- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- 2- THIS DRAWING IS USED FOR HEADWALL OF THIS CULVERT.

PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOEI CO.,LTD.	PREPARED BY NAME: K. Nemoto SIGNATURE: [Signature] DATE: 20/9/2000	CHECKED BY K. Nakai 29/9/2000	APPROVED BY K. Enomoto 5/10/2000	DRAWING TITLE REINFORCEMENT OF HEAD WALL STATION 0+051.8	DWG NO. P1/BC/0080
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