



GOVERNMENT OF MALAYSIA
ECONOMIC PLANNING UNIT, PRIME MINISTER'S DEPARTMENT
HIGHWAY PLANNING UNIT, MINISTRY OF WORKS



JAPAN INTERNATIONAL
COOPERATION AGENCY

THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD PROJECT IN MALAYSIA FINAL REPORT

DRAWINGS

July, 1996

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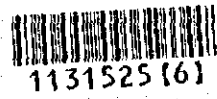
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GOVERNMENT OF MALAYSIA
ECONOMIC PLANNING UNIT, PRIME MINISTER'S DEPARTMENT
HIGHWAY PLANNING UNIT, MINISTRY OF WORKS



JAPAN INTERNATIONAL
COOPERATION AGENCY

**THE FEASIBILITY STUDY
ON
KUALA LUMPUR
OUTER RING ROAD PROJECT
IN
MALAYSIA
FINAL REPORT**

DRAWINGS

July, 1996



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LIST OF DRAWINGS

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5.2.2 - do - Profile (2)

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5.3.1 - do - Profile (1)

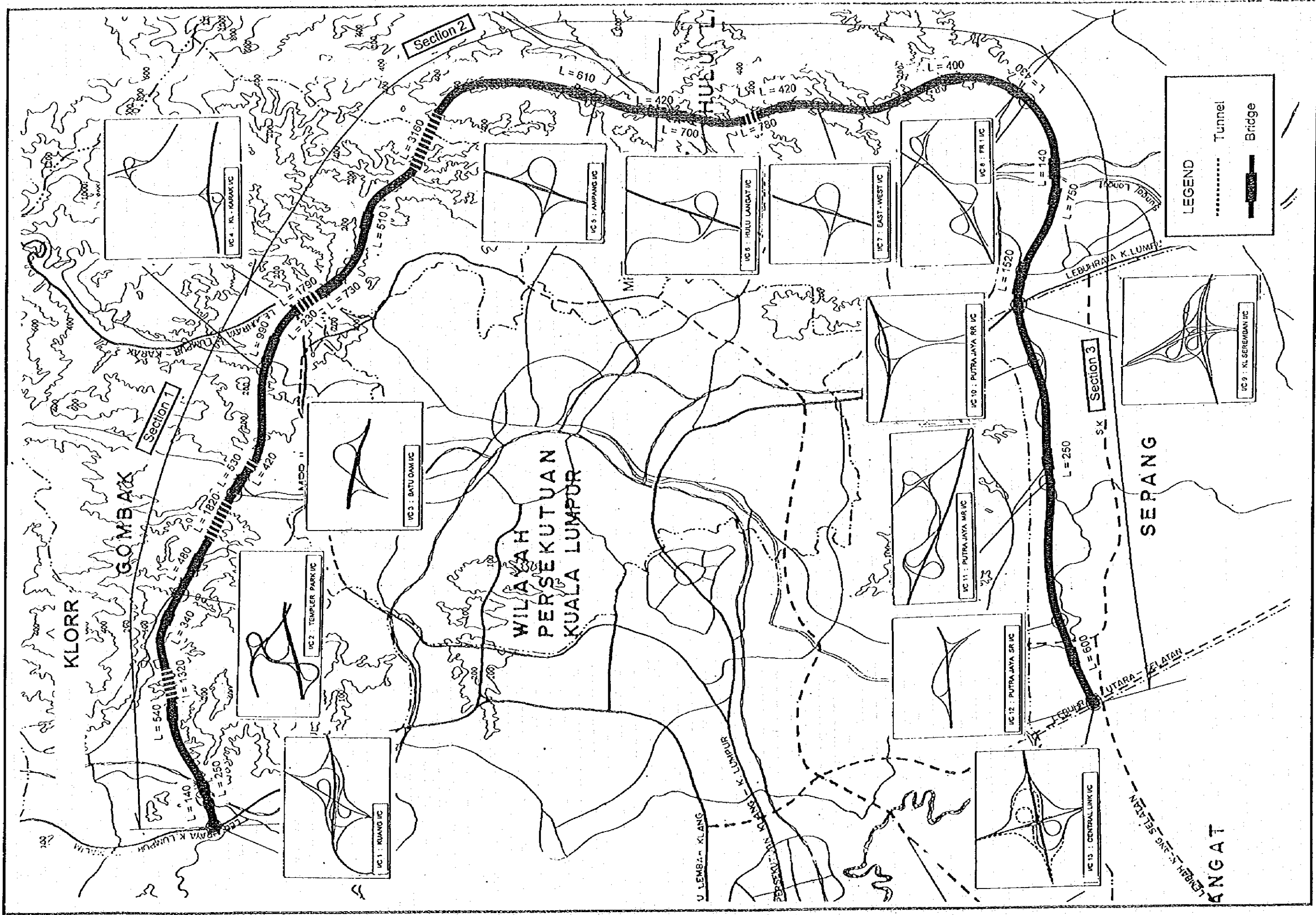
5.3.2 - do - Profile (2)

5.4 Interchange No.13:KLORR - N-S Central Link Expressway Plan

5.4.1 - do - Profile (1)

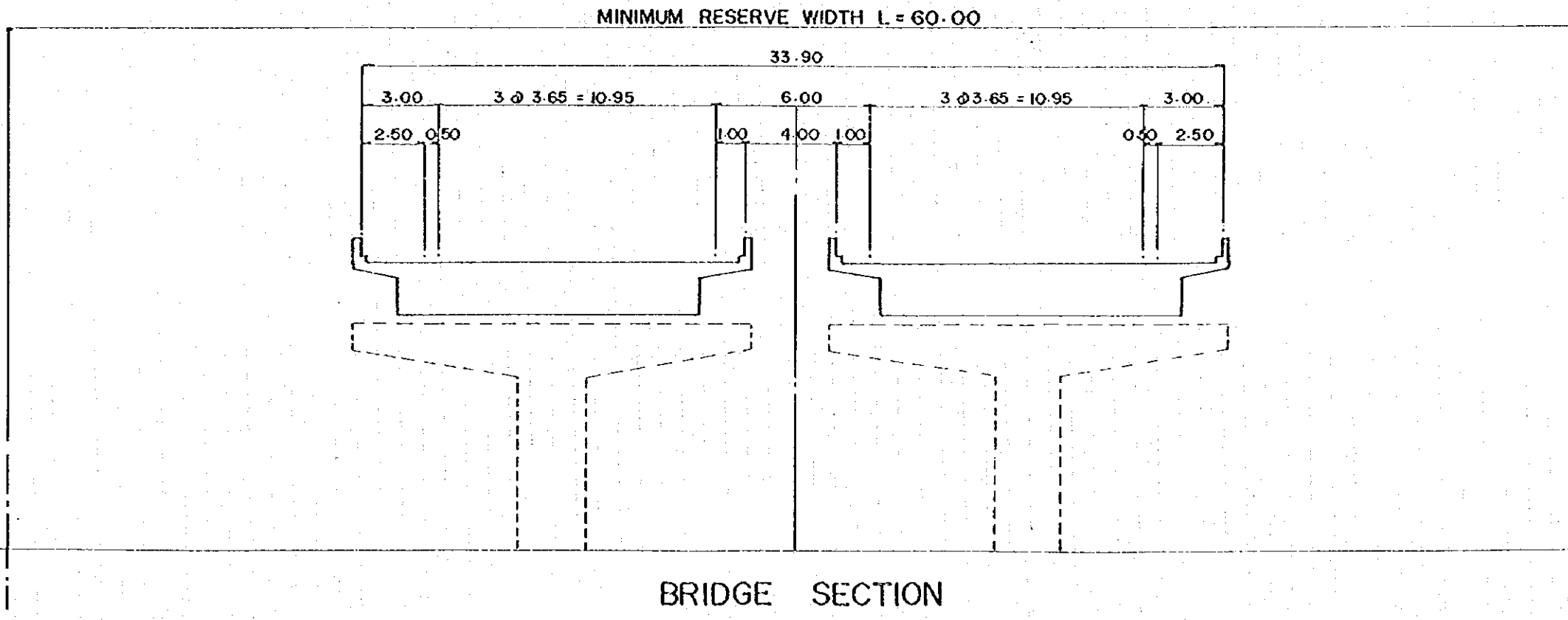
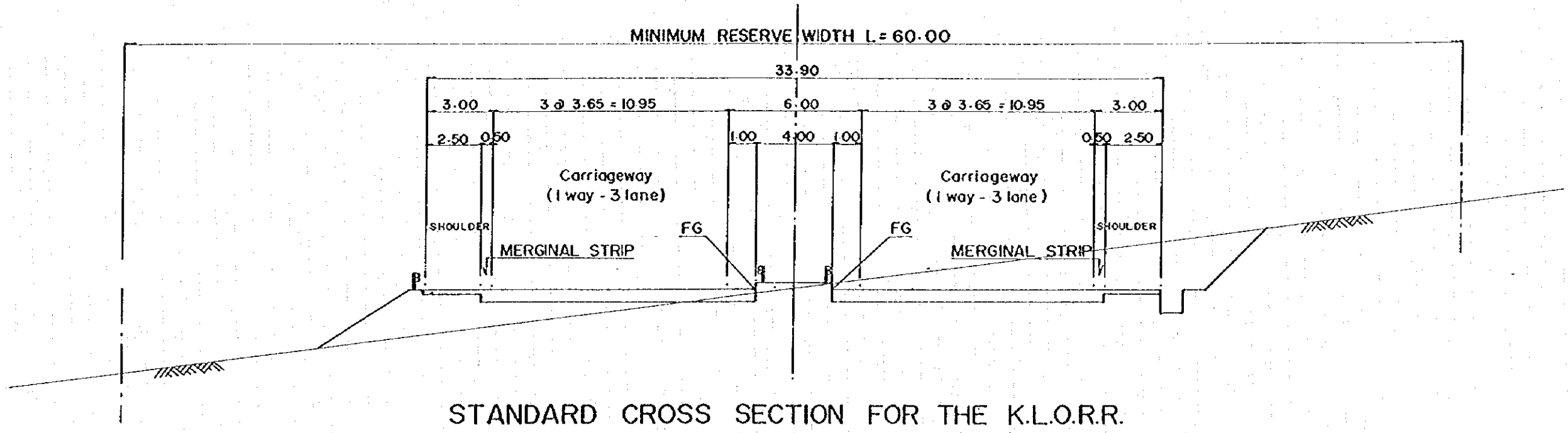
6.0 Right of Way (23 Sheets)

1.0 LOCATION OF KLORR

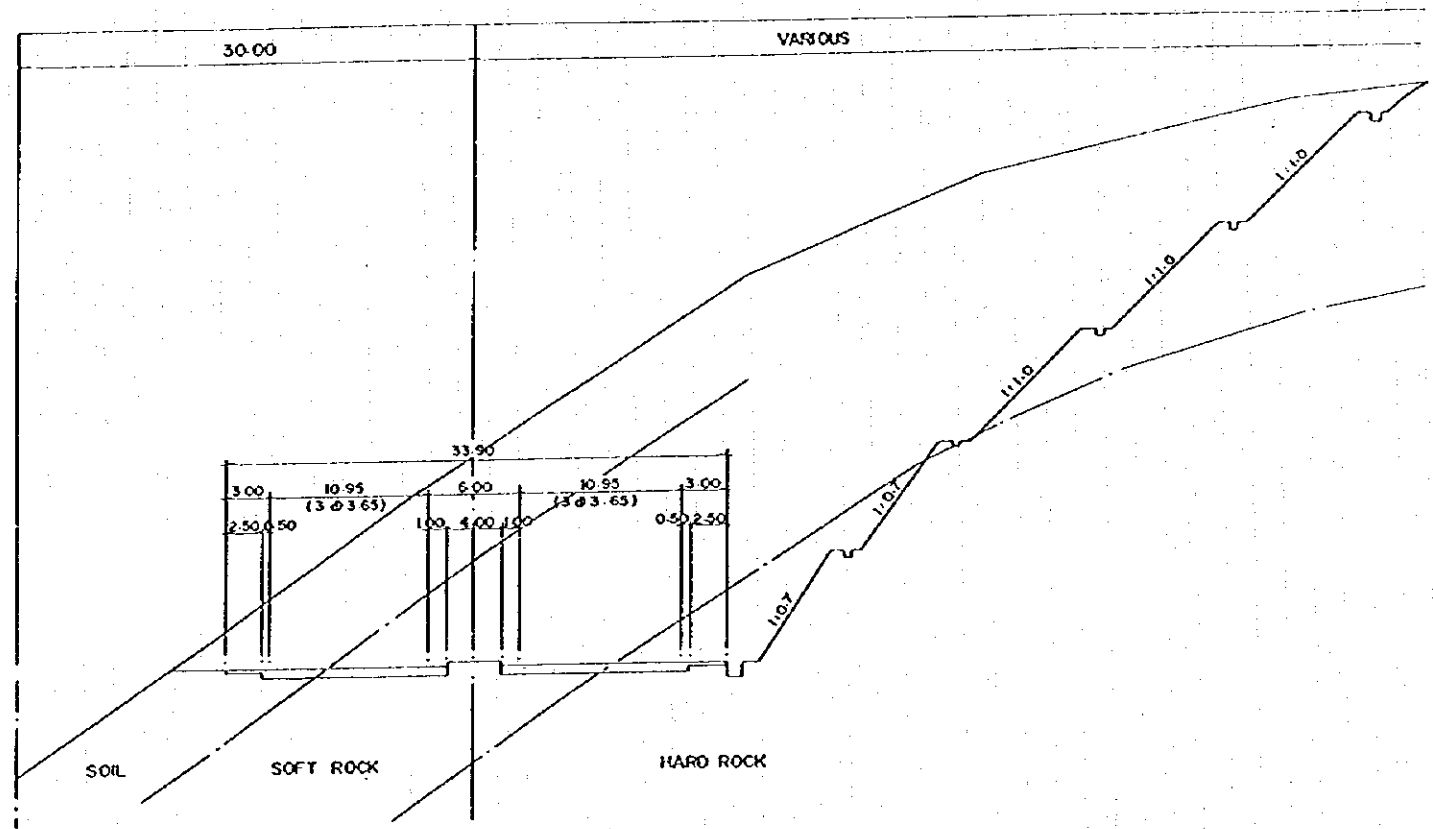


1.0 Location of KLORR

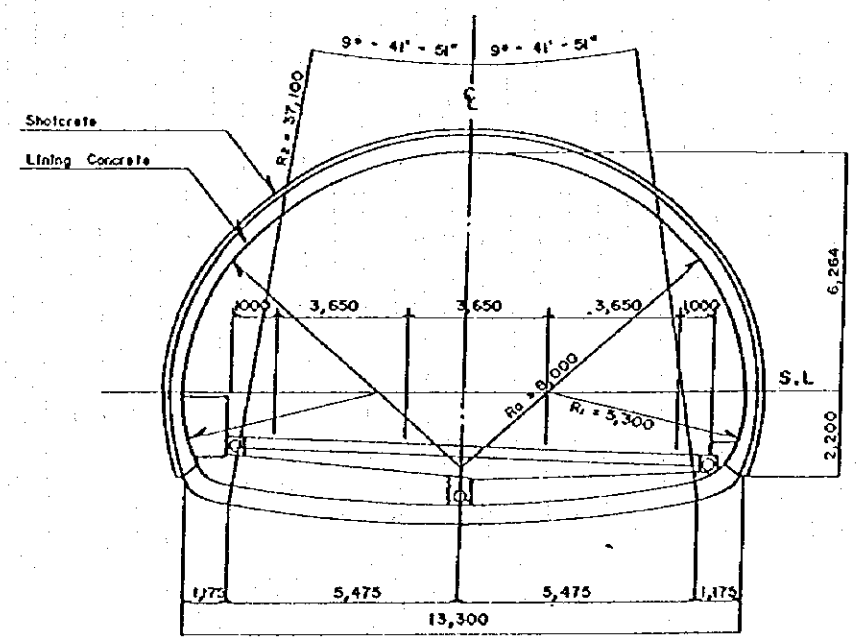
2.0 TYPICAL CROSS SECTION



2.1 Standard and Bridge Section



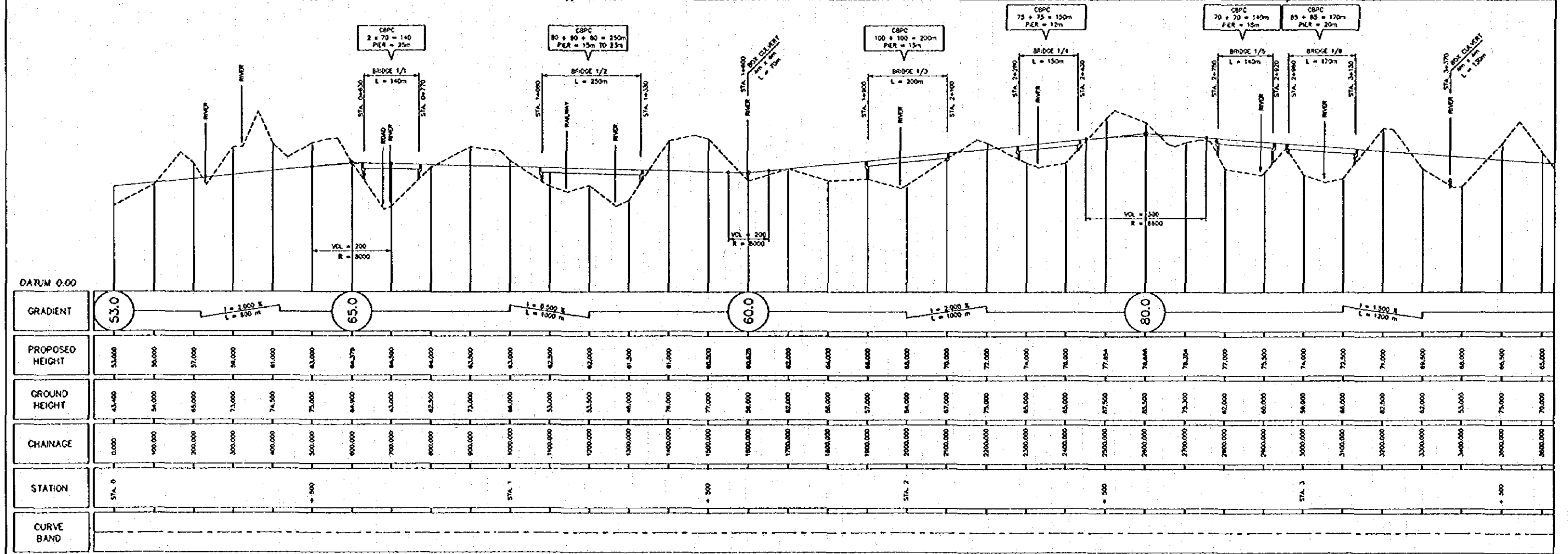
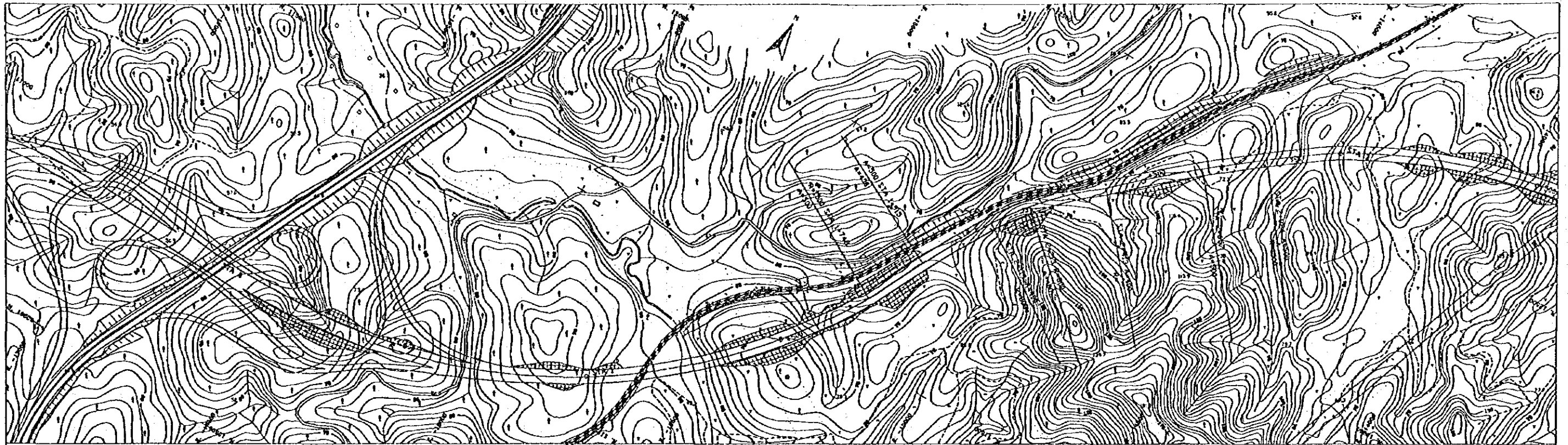
EARTH WORK SECTION



TUNNEL SECTION

2.2 Earth Work and Tunnel Section

3.0 PLAN AND PROFILE

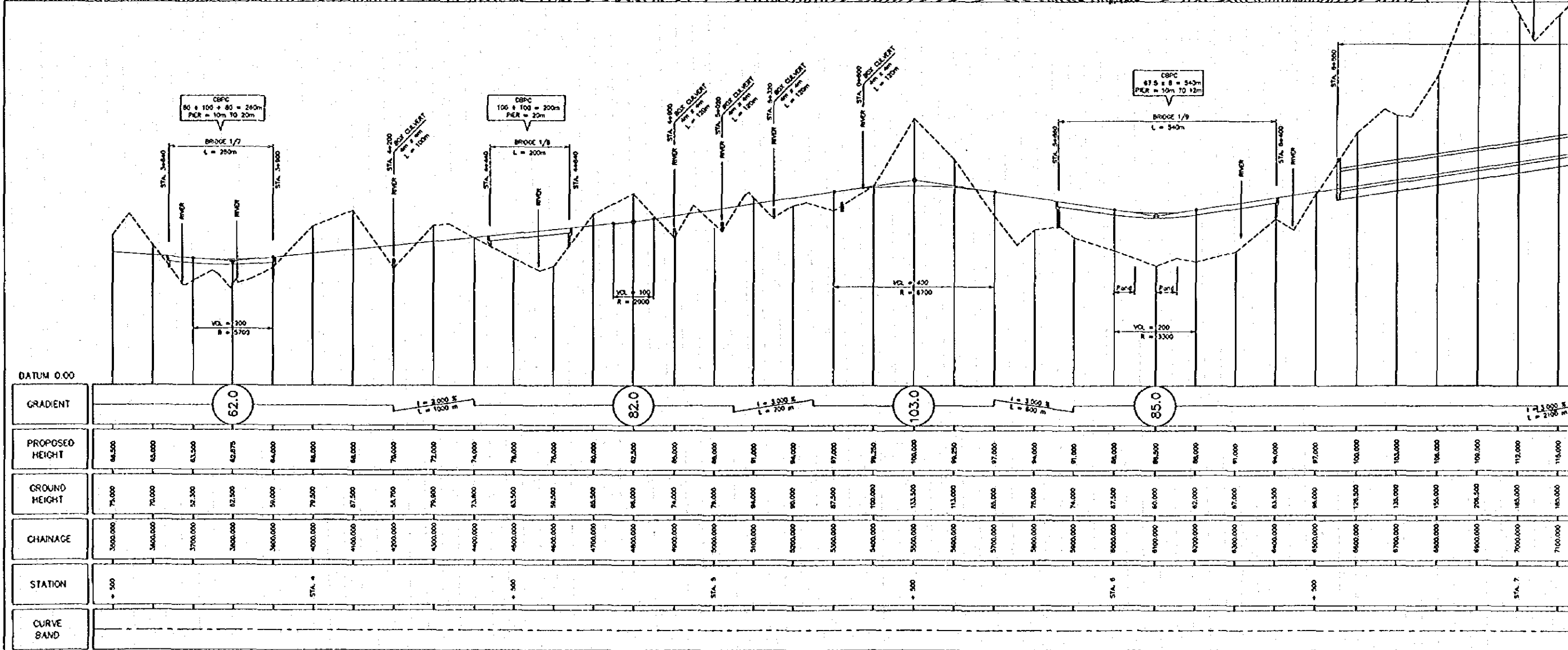


THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA

PLAN NO: 1
 PLAN TITLE:
PLAN and PROFILE

SCALE H=1 : 5000
 SCALE V=1 : 1000
 DATE: MARCH 1995

JAPAN INTERNATIONAL COOPERATION AGENCY
 HIGHWAY PLANNING UNIT,
 MINISTRY OF WORKS, MALAYSIA
 CONSULTANTS:
 FUKUYAMA CONSULTANTS INTERNATIONAL
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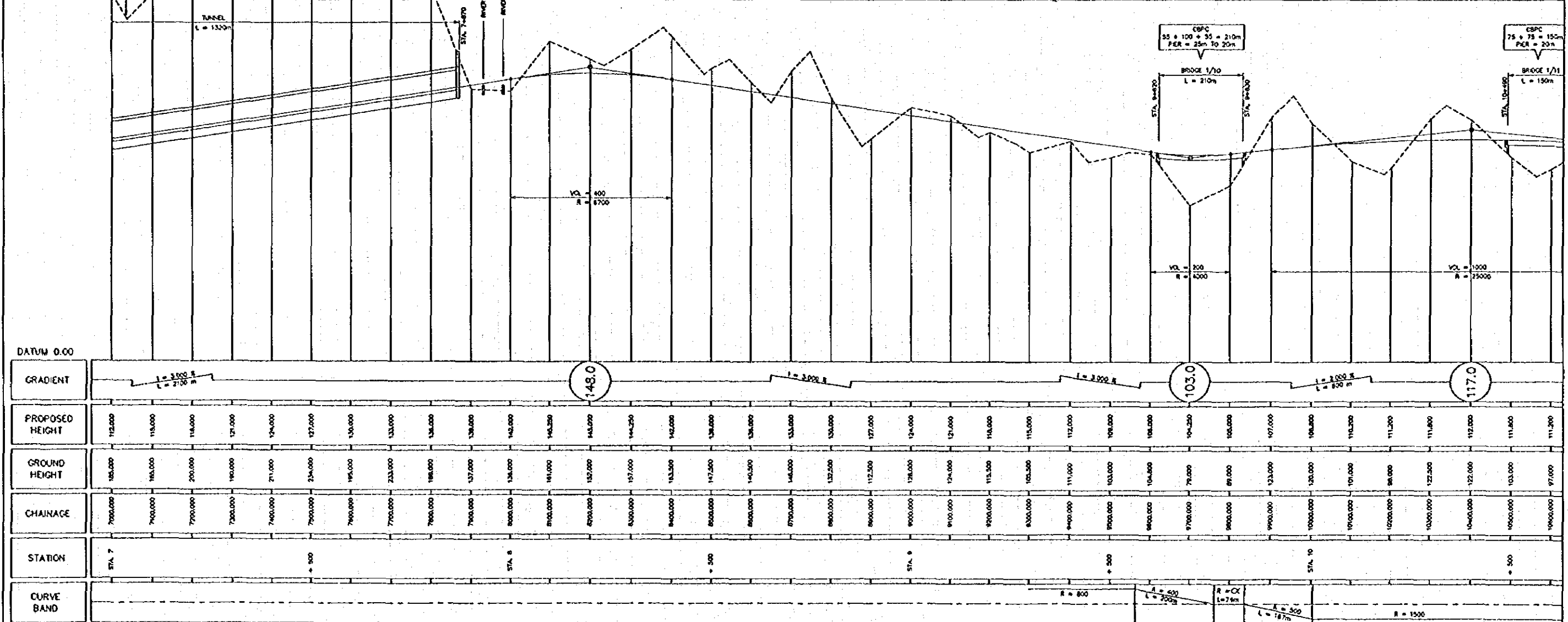
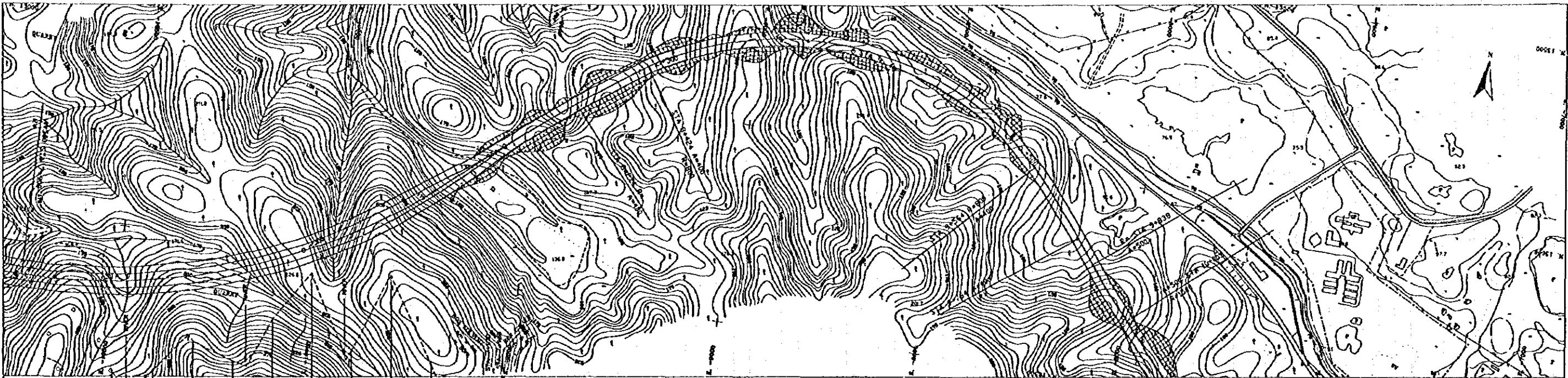
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GROUND HEIGHT	75.000	70.000	52.500	52.500	59.000	79.500	87.500	54.700	76.800	73.800	63.500	59.500	65.500	66.000	74.000	76.000	84.000	90.000	87.500	100.000	113.500	113.000	85.000	75.000	74.000	87.500	60.000	62.000	67.000	63.500	66.000	126.500	135.000	155.000	206.500	185.000	185.000			
CHAINAGE	3000.000	3600.000	3700.000	3800.000	3800.000	4000.000	4100.000	4200.000	4300.000	4400.000	4500.000	4600.000	4700.000	4800.000	4900.000	5000.000	5100.000	5200.000	5300.000	5400.000	5500.000	5600.000	5700.000	5800.000	5900.000	6000.000	6100.000	6200.000	6300.000	6400.000	6500.000	6600.000	6700.000	6800.000	6900.000	7000.000	7100.000			
STATION	STA. 5										STA. 6										STA. 7																			
CURVE BAND																																								

THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA

PLAN NO: 2
PLAN TITLE:
PLAN and PROFILE

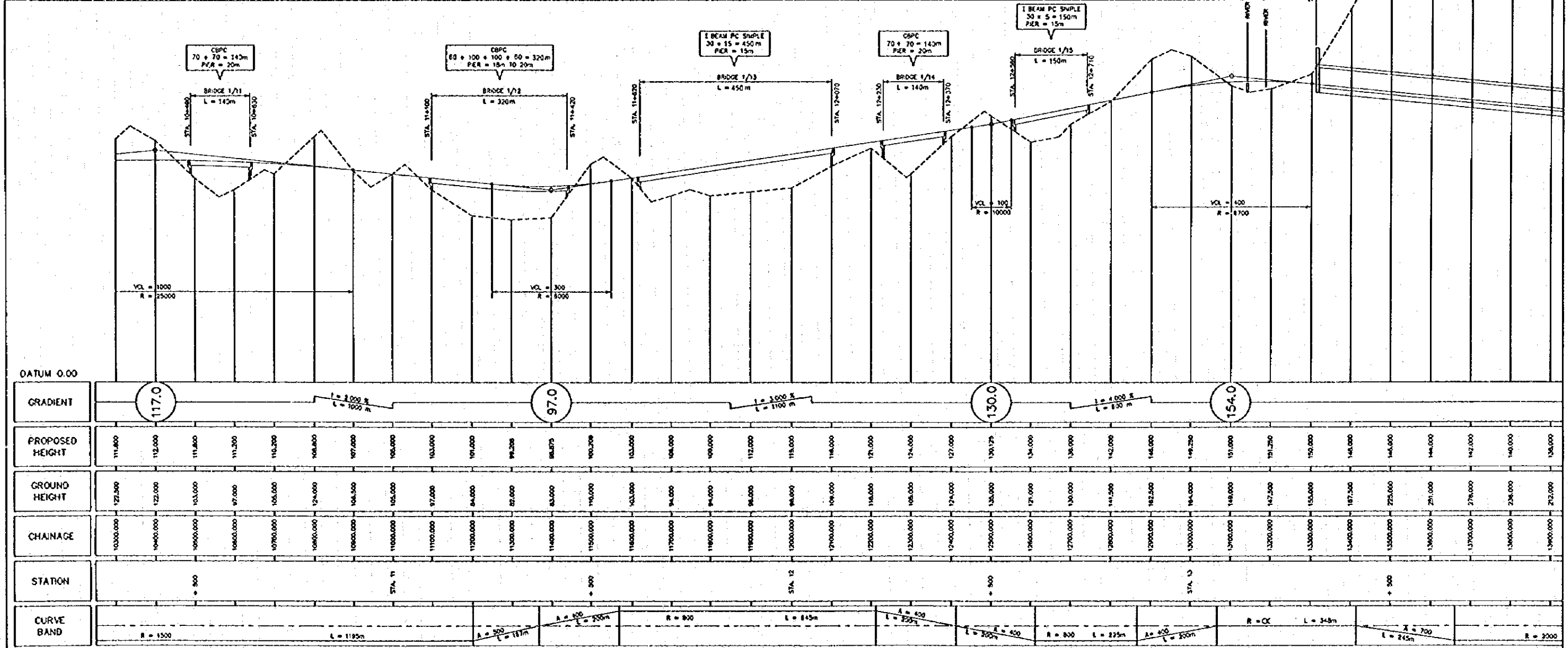
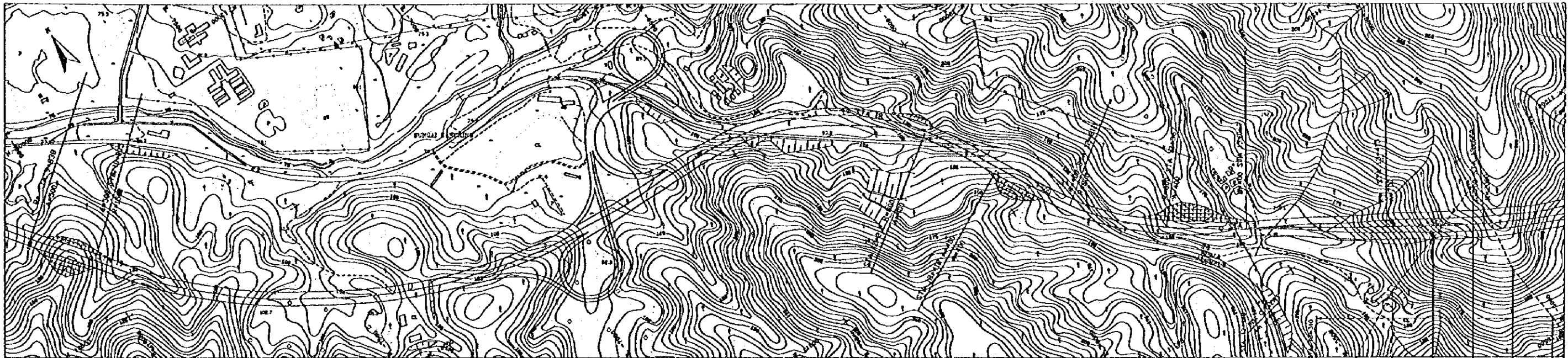
SCALE H=1:5000
SCALE V=1:1000
DATE: MARCH 1995

JAPAN INTERNATIONAL COOPERATION AGENCY
HIGHWAY PLANNING UNIT,
MINISTRY OF WORKS, MALAYSIA
CONSULTANTS:
FUKUYAMA CONSULTANTS INTERNATIONAL
PACIFIC CONSULTANTS INTERNATIONAL



GRADIENT	1 = 3.000 R L = 2700 M		148.0										1 = 3.000 R		103.0		1 = 2.000 R L = 800 M			117.0								
PROPOSED HEIGHT	112.000	113.000	114.000	121.000	124.000	127.000	130.000	133.000	136.000	139.000	142.000	145.250	148.000	144.250	140.000	136.000	132.500	129.000	125.000	121.000	118.000	115.000	112.000	108.000	104.000	100.000	97.000	
GROUND HEIGHT	102.000	103.000	104.000	110.000	114.000	118.000	122.000	126.000	130.000	134.000	138.000	142.000	146.000	140.000	134.000	128.000	122.000	116.000	110.000	104.000	98.000	92.000	86.000	80.000	74.000	68.000	62.000	
CHAINAGE	7000.000	7100.000	7200.000	7300.000	7400.000	7500.000	7600.000	7700.000	7800.000	7900.000	8000.000	8100.000	8200.000	8300.000	8400.000	8500.000	8600.000	8700.000	8800.000	8900.000	9000.000	9100.000	9200.000	9300.000	9400.000	9500.000	9600.000	
STATION	STA 7				+ 500						STA 8					+ 500											STA 10	
CURVE BAND																												

<h2>THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA</h2>	PLAN NO: 3	SCALE H=1 : 5000	JAPAN INTERNATIONAL COOPERATION AGENCY HIGHWAY PLANNING UNIT, MINISTRY OF WORKS, MALAYSIA CONSULTANTS: FUKUYAMA CONSULTANTS INTERNATIONAL PACIFIC CONSULTANTS INTERNATIONAL
	PLAN TITLE: PLAN and PROFILE	SCALE V=1 : 1000	
	DATE: MARCH 1995		



THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA

PLAN NO: 4

PLAN TITLE:

PLAN and PROFILE

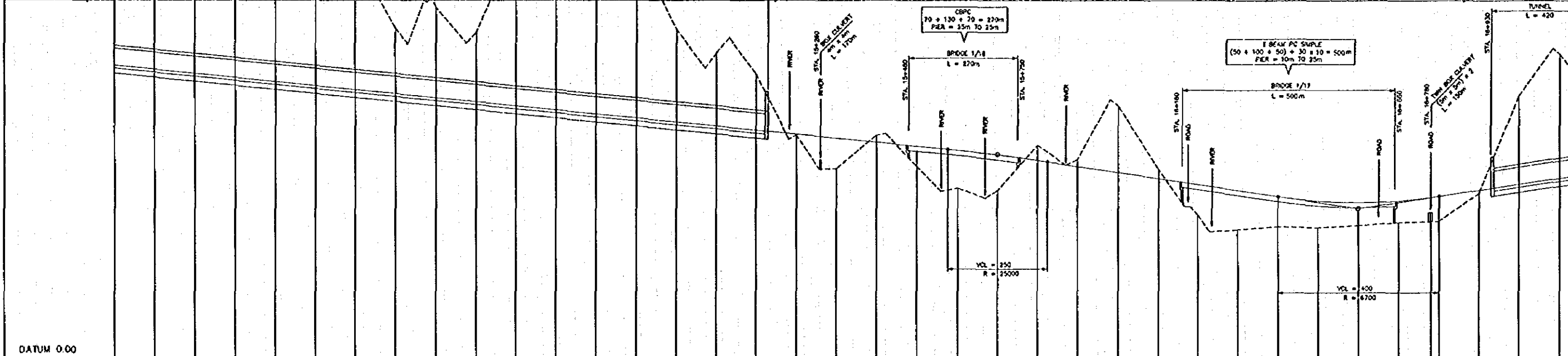
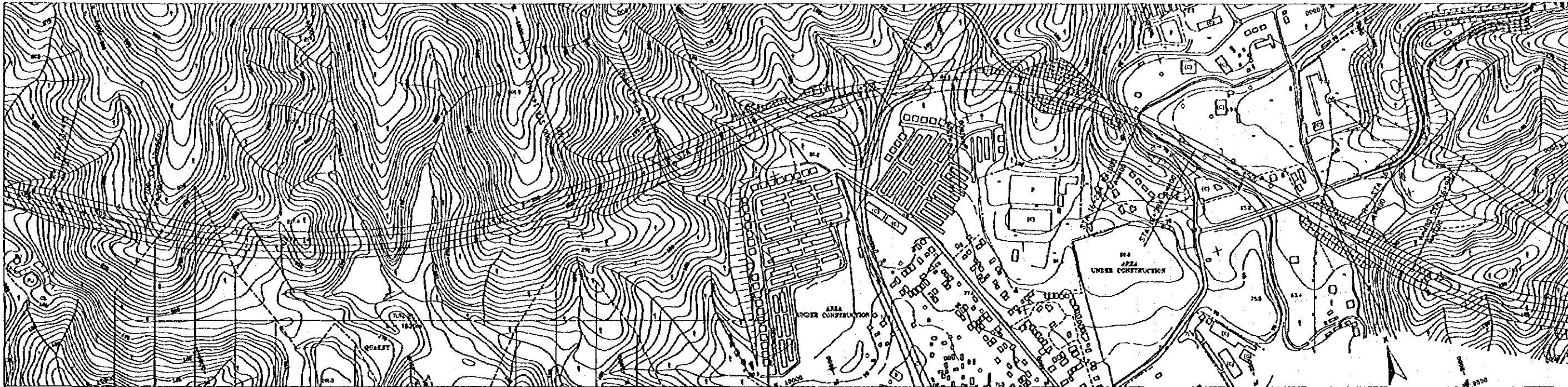
SCALE H=1 : 5000

SCALE V=1 : 1000

DATE: MARCH 1995

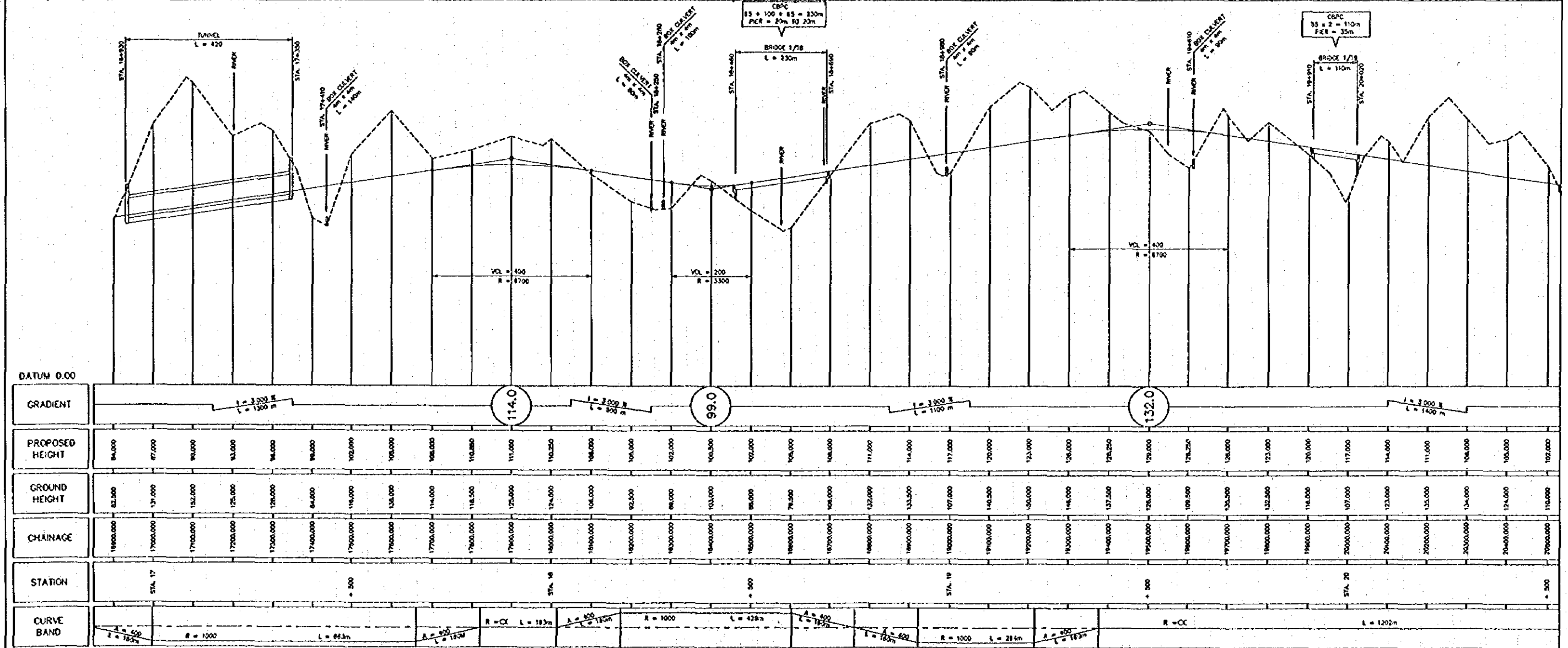
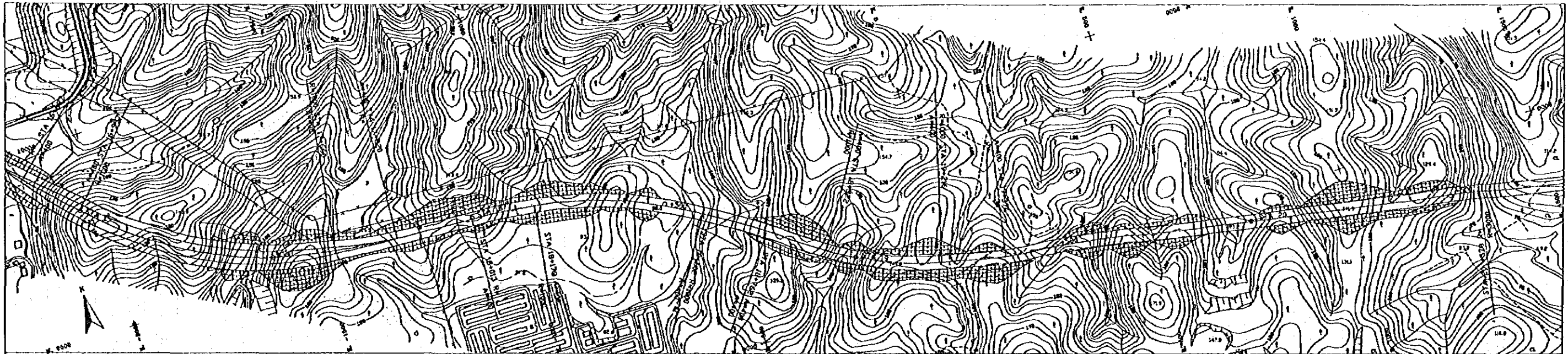
JAPAN INTERNATIONAL COOPERATION AGENCY
HIGHWAY PLANNING UNIT,
MINISTRY OF WORKS, MALAYSIA

CONSULTANTS:
FUKUYAMA CONSULTANTS INTERNATIONAL
PACIFIC CONSULTANTS INTERNATIONAL

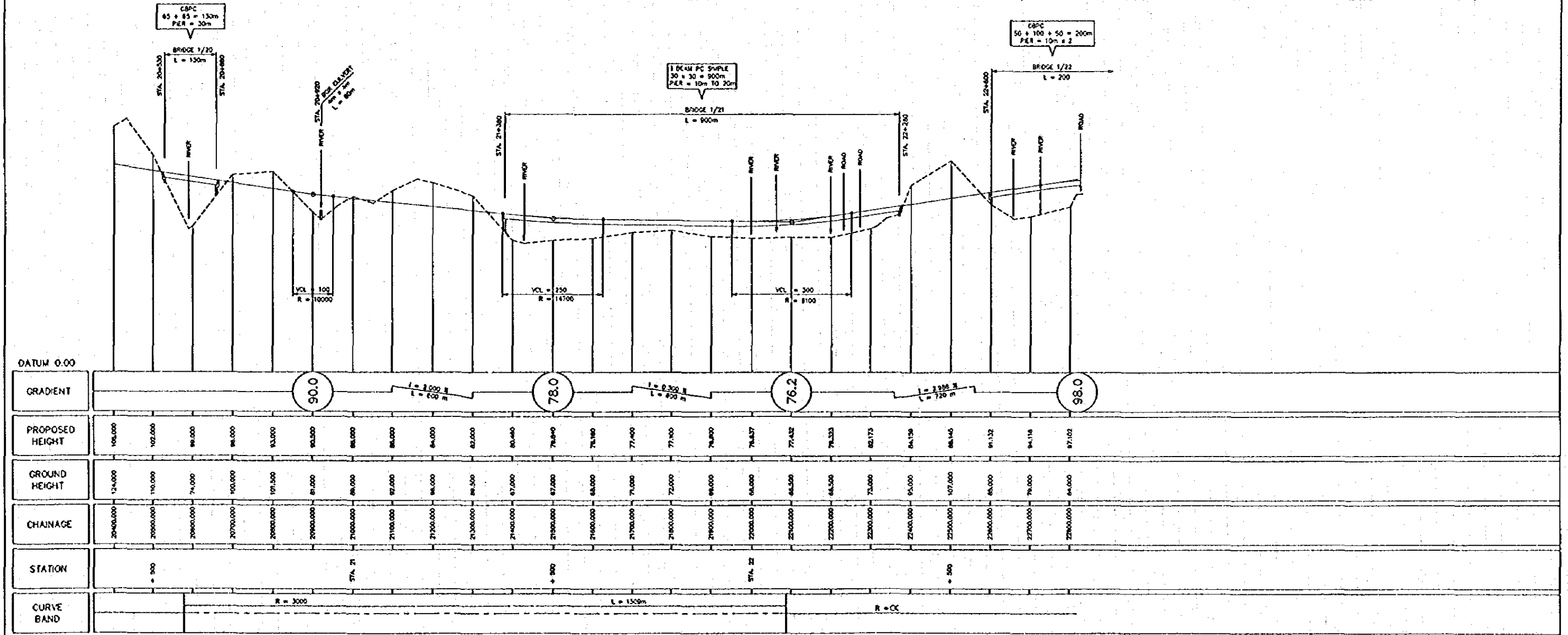
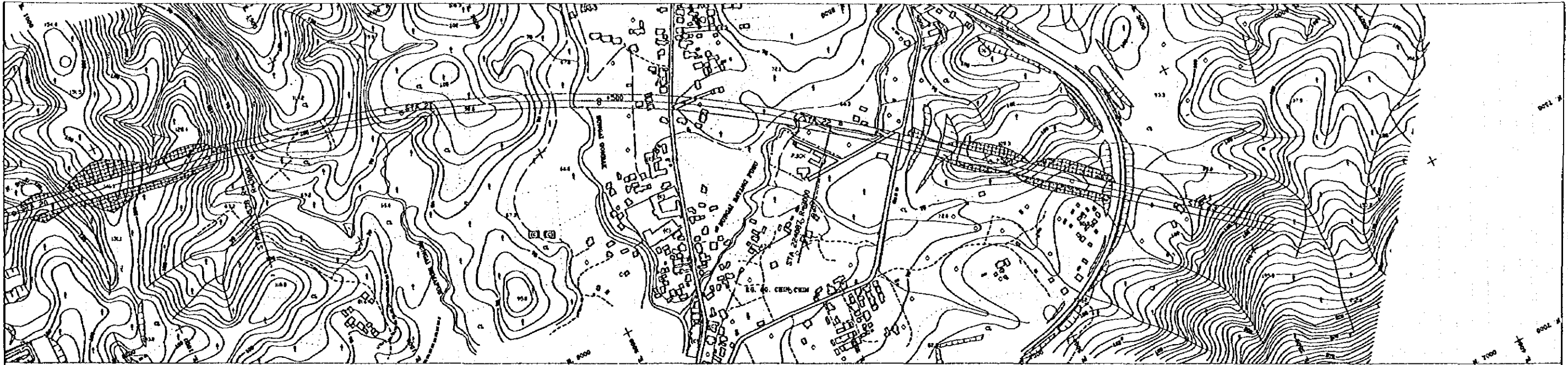


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GROUND HEIGHT	225.000, 225.000, 221.000, 218.000, 215.000, 212.000, 209.000, 206.000, 203.000, 200.000, 197.000, 194.000, 191.000, 188.000, 185.000, 182.000, 179.000, 176.000, 173.000, 170.000, 167.000, 164.000, 161.000, 158.000, 155.000, 152.000, 149.000, 146.000, 143.000, 140.000, 137.000, 134.000, 131.000, 128.000, 125.000, 122.000, 119.000, 116.000, 113.000, 110.000, 107.000, 104.000, 101.000, 98.000, 95.000, 92.000, 89.000, 86.000, 83.000, 80.000, 77.000, 74.000, 71.000, 68.000, 65.000, 62.000, 59.000, 56.000, 53.000, 50.000, 47.000, 44.000, 41.000, 38.000, 35.000, 32.000, 29.000, 26.000, 23.000, 20.000, 17.000, 14.000, 11.000, 8.000, 5.000, 2.000, 0.000
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STATION	+ 300, STA 14, + 500, STA 15, + 500, STA 16, + 300, STA 17
CURVE BAND	$R = 700$, $L = 245\text{m}$; $B = 2000$, $L = 1080\text{m}$; $A = 500$, $L = 245\text{m}$; $R = \infty$, $L = 187\text{m}$; $A = 500$, $L = 187\text{m}$; $R = 1500$, $L = 410\text{m}$; $R = 1000$, $L = 487\text{m}$; $A = 400$, $L = 160\text{m}$; $R = \infty$, $L = 435\text{m}$; $A = 400$, $L = 160\text{m}$; $R = 3000$

<h1>THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA</h1>	PLAN NO: 5 PLAN TITLE: <h2 style="text-align: center;">PLAN and PROFILE</h2>	SCALE H=1 : 5000 SCALE V=1 : 1000 DATE: MARCH 1995	JAPAN INTERNATIONAL COOPERATION AGENCY HIGHWAY PLANNING UNIT, MINISTRY OF WORKS, MALAYSIA CONSULTANTS: FUKUYAMA CONSULTANTS INTERNATIONAL PACIFIC CONSULTANTS INTERNATIONAL
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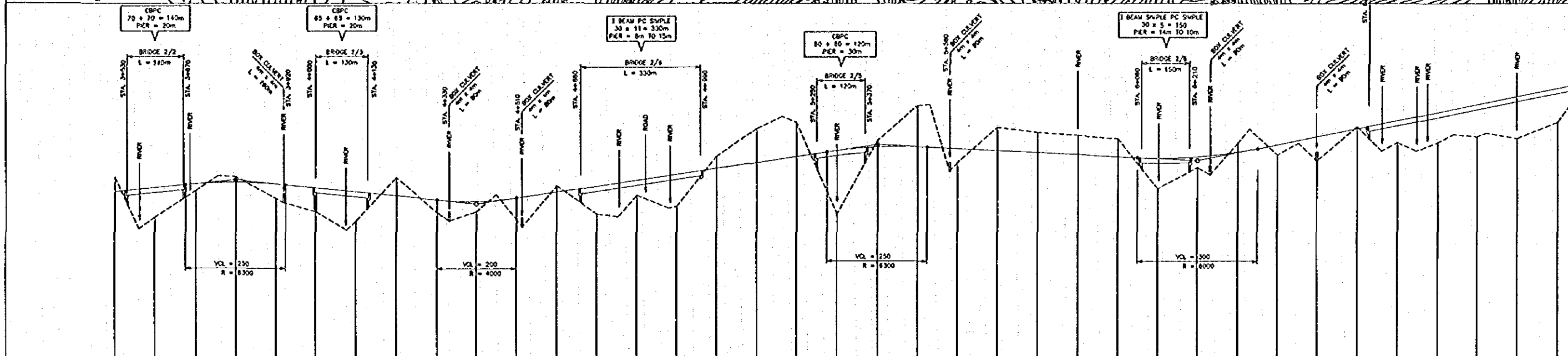
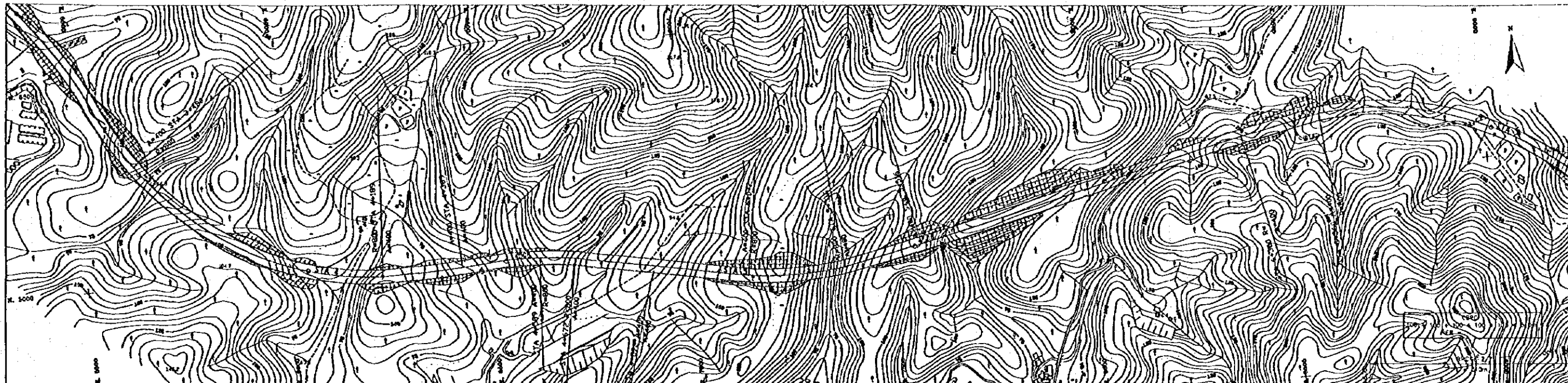


<h1>THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA</h1>	PLAN NO: 6 PLAN TITLE: <h2 style="text-align: center;">PLAN and PROFILE</h2>	SCALE H=1 : 6000 SCALE V=1 : 1000 DATE: MARCH 1995	JAPAN INTERNATIONAL COOPERATION AGENCY HIGHWAY PLANNING UNIT, MINISTRY OF WORKS, MALAYSIA CONSULTANTS: FUKUYAMA CONSULTANTS INTERNATIONAL PACIFIC CONSULTANTS INTERNATIONAL
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**THE FEASIBILITY STUDY ON
KUALA LUMPUR OUTER RING ROAD IN MALAYSIA**

PLAN NO: 7 PLAN TITLE: <p style="text-align: center;">PLAN and PROFILE</p>	SCALE H=1 : 6000 SCALE V=1 : 1000 DATE: MARCH 1995	JAPAN INTERNATIONAL COOPERATION AGENCY HIGHWAY PLANNING UNIT, MINISTRY OF WORKS, MALAYSIA CONSULTANTS: FUKUYAMA CONSULTANTS INTERNATIONAL PACIFIC CONSULTANTS INTERNATIONAL
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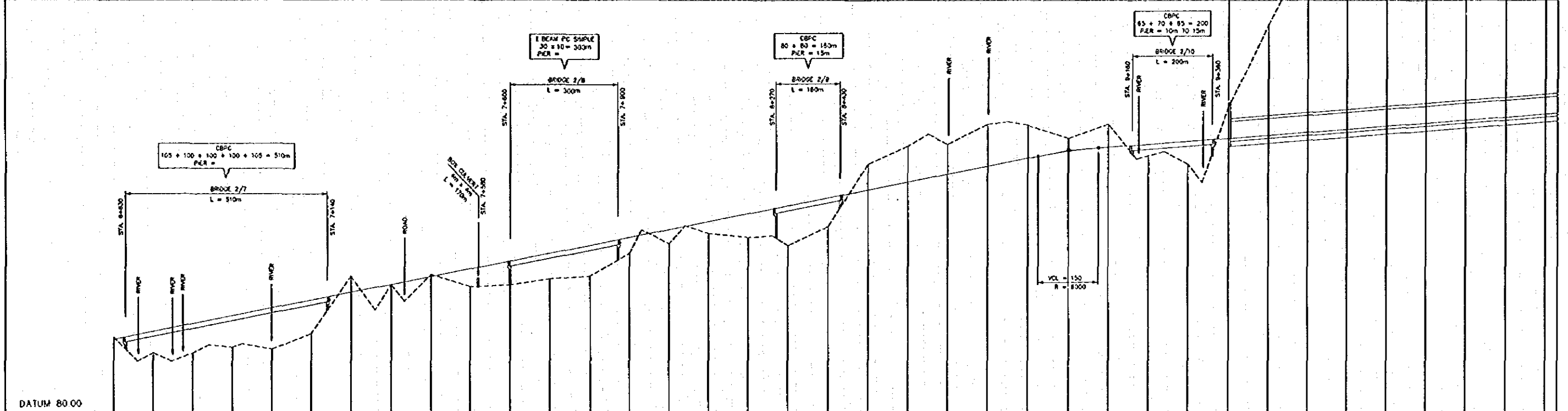
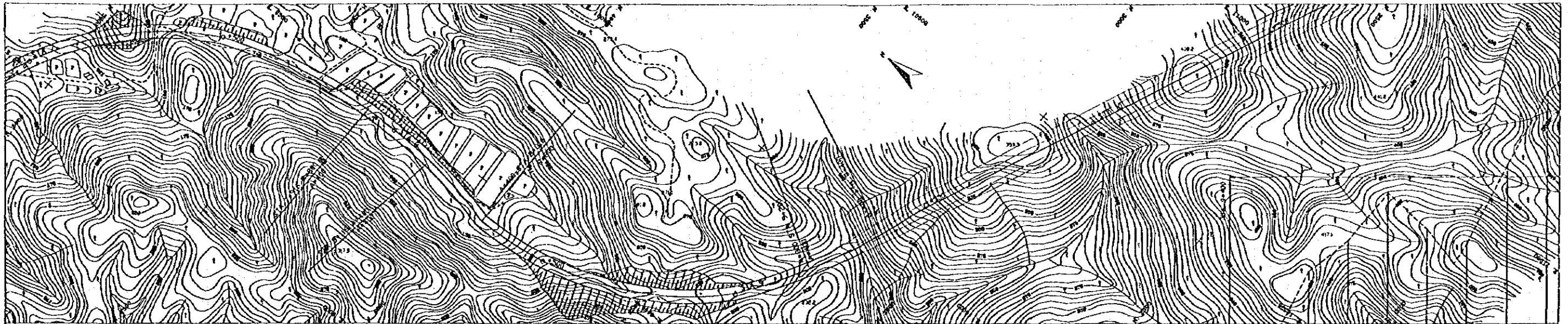
GRADIENT	S1.0		S2.000 R L = 630 m		S1.0		S3.000 R L = 1000 m		S1.0		S4.000 R L = 800 m		S1.0																										
PROPOSED HEIGHT	88.000	87.000	86.800	86.700	86.500	87.000	86.000	83.000	81.000	80.200	80.000	85.000	91.000	94.000	97.000	100.000	103.000	105.000	107.000	107.000	104.000	103.000	102.200	102.875	100.200	109.000	104.000	113.000	117.000	125.000	129.000	133.000	137.000						
GROUND HEIGHT	92.000	77.000	85.500	92.500	80.500	75.000	70.000	92.000	74.500	75.000	71.000	88.000	74.000	63.000	78.000	93.000	117.000	102.000	74.000	111.000	108.500	100.000	117.500	115.000	113.500	112.000	87.000	97.500	109.500	104.000	101.000	118.000	110.000	110.000	110.000	113.000	112.000	120.000	
CHAINAGE	3600.000	3600.000	3700.000	3900.000	3900.000	4000.000	4100.000	4200.000	4300.000	4400.000	4500.000	4600.000	4700.000	4800.000	4900.000	5000.000	5100.000	5200.000	5300.000	5400.000	5500.000	5600.000	5700.000	5800.000	5900.000	6000.000	6100.000	6200.000	6300.000	6400.000	6500.000	6600.000	6700.000	6800.000	6900.000	7000.000	7100.000		
STATION	+ 300					STA. 4										STA. 5											STA. 6												STA. 7
CURVE BAND	R = 800		L = 700m		A = 400 L = 200m		A = 400 L = 200m		A = 400 L = 200m		A = 400 L = 200m		R = 800 L = 244m		A = 400 L = 200m		A = 400 L = 200m		R = 800		A = 400 L = 200m		R = 800		A = 400 L = 200m		R = 800		A = 400 L = 200m		R = 800		A = 400 L = 200m						

THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA

PLAN NO: 9
PLAN TITLE:
PLAN and PROFILE

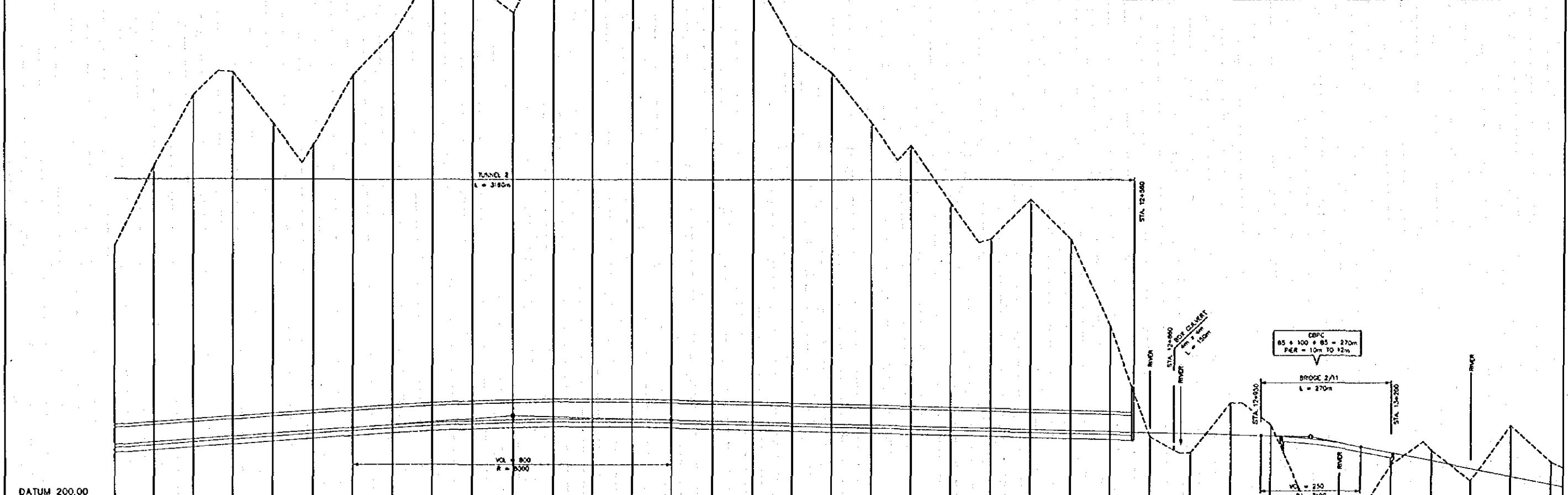
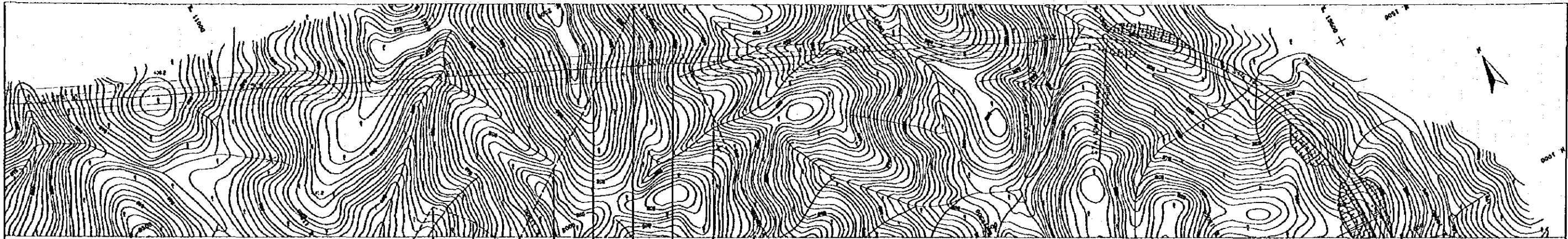
SCALE H=1 : 6000
SCALE V=1 : 1000
DATE: MARCH 1995

JAPAN INTERNATIONAL COOPERATION AGENCY
HIGHWAY PLANNING UNIT,
MINISTRY OF WORKS, MALAYSIA
CONSULTANTS:
FUKUYAMA CONSULTANTS INTERNATIONAL
PACIFIC CONSULTANTS INTERNATIONAL



DATUM 80 00																																							
GRADIENT																																							
PROPOSED HEIGHT	117.000	121.000	125.000	129.000	133.000	137.000	141.000	145.000	149.000	153.000	157.000	161.000	165.000	169.000	173.000	177.000	181.000	185.000	189.000	193.000	197.000	201.000	205.000	209.000	212.531	216.500	218.000	217.500	216.000	220.500	222.000	223.500	226.000	228.500	230.000	234.000	236.000	239.000	241.000
GROUND HEIGHT	116.000	110.000	110.000	113.000	112.000	120.000	149.000	145.000	150.000	144.000	145.000	145.000	148.500	181.000	184.000	171.000	189.000	165.000	174.500	204.000	215.000	214.000	226.000	225.000	219.000	224.000	210.000	204.000	235.000	274.000	314.500	330.000	353.500	334.000	326.000	346.000	404.000		
CHAINAGE	6000.000	6700.000	6800.000	8800.000	7000.000	7100.000	7200.000	7300.000	7400.000	7500.000	7600.000	7700.000	7800.000	7900.000	8000.000	8100.000	8200.000	8300.000	8400.000	8500.000	8600.000	8700.000	8800.000	8900.000	9000.000	9100.000	9200.000	9300.000	9400.000	9500.000	9600.000	9700.000	9800.000	9900.000	10000.000	10100.000	10200.000		
STATION					STA. 7					+ 500					STA. 8					+ 500					STA. 9					+ 500					STA. 10				
CURVE BAND																																							

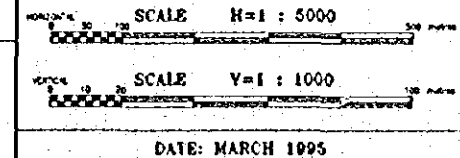
<h1 style="text-align: center;">THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA</h1>	PLAN NO: 10 PLAN TITLE: <h2 style="text-align: center;">PLAN and PROFILE</h2>	SCALE H=1 : 5000 SCALE V=1 : 1000 DATE: MARCH 1995	JAPAN INTERNATIONAL COOPERATION AGENCY HIGHWAY PLANNING UNIT, MINISTRY OF WORKS, MALAYSIA CONSULTANTS: FUKUYAMA CONSULTANTS INTERNATIONAL PACIFIC CONSULTANTS INTERNATIONAL
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DATUM 200.00																															
GRADIENT																															
PROPOSED HEIGHT	228.500	229.500	231.000	232.500	234.500	236.500	237.000	238.375	239.500	240.375	241.000	241.375	241.000	240.500	240.000	238.500	238.000	238.500	238.000	237.500	237.000	236.500	235.000	234.500	234.000	233.000	232.000	231.000	230.000		
GROUND HEIGHT	328.000	348.000	404.000	475.500	560.000	679.000	818.000	954.500	1087.000	1205.375	1300.000	1380.000	1446.500	1500.000	1540.000	1565.000	1575.000	1570.000	1550.000	1520.000	1480.000	1430.000	1370.000	1300.000	1220.000	1130.000	1030.000	920.000	800.000		
CHAINAGE	10000.000	10100.000	10200.000	10300.000	10400.000	10500.000	10600.000	10700.000	10800.000	10900.000	11000.000	11100.000	11200.000	11300.000	11400.000	11500.000	11600.000	11700.000	11800.000	11900.000	12000.000	12100.000	12200.000	12300.000	12400.000	12500.000	12600.000	12700.000	12800.000	12900.000	13000.000
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CURVE BAND	R = ∞										L = 2300m					R = 800					R = 800										

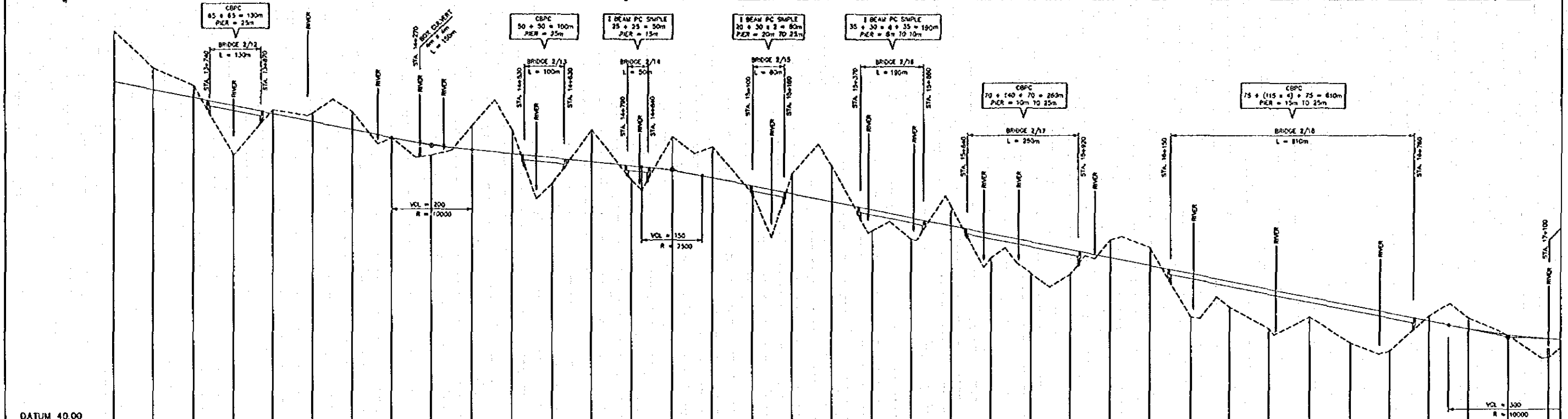
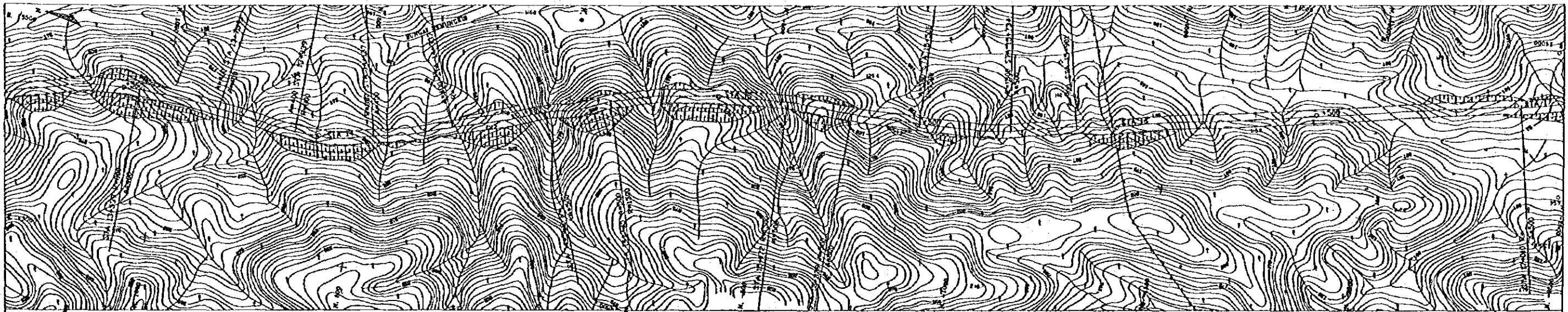
THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA

PLAN NO: 11
PLAN TITLE:
PLAN and PROFILE

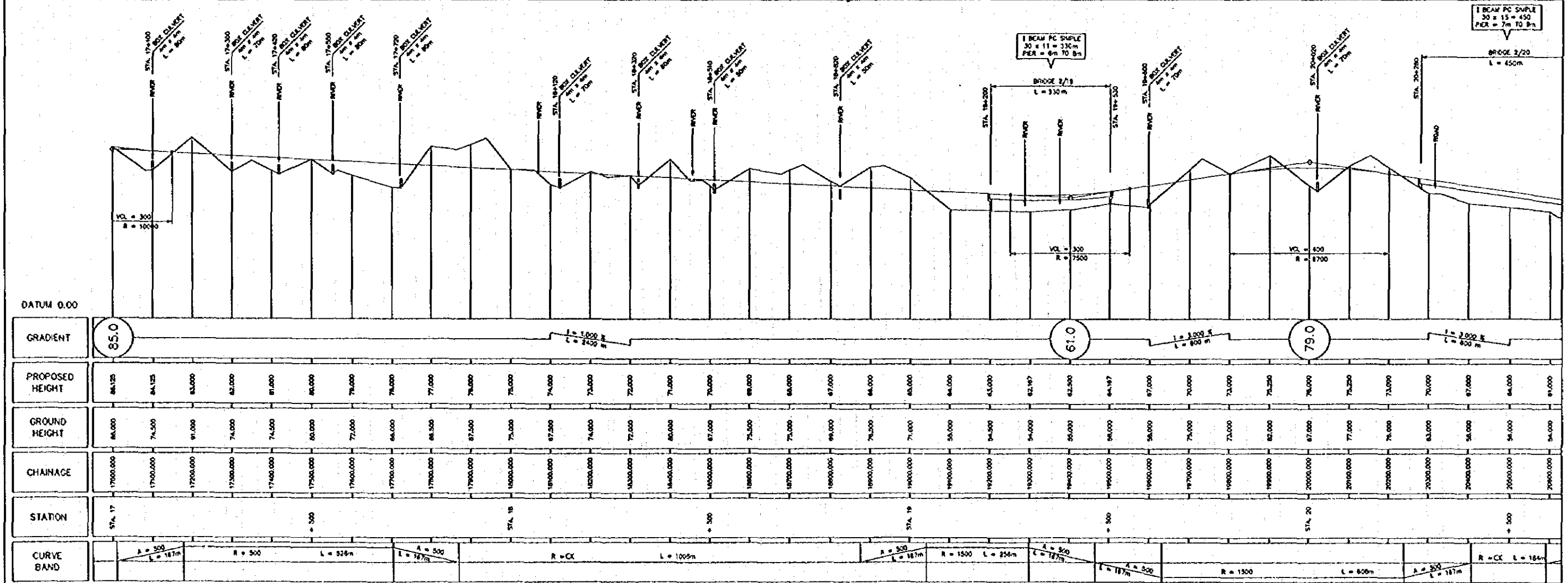
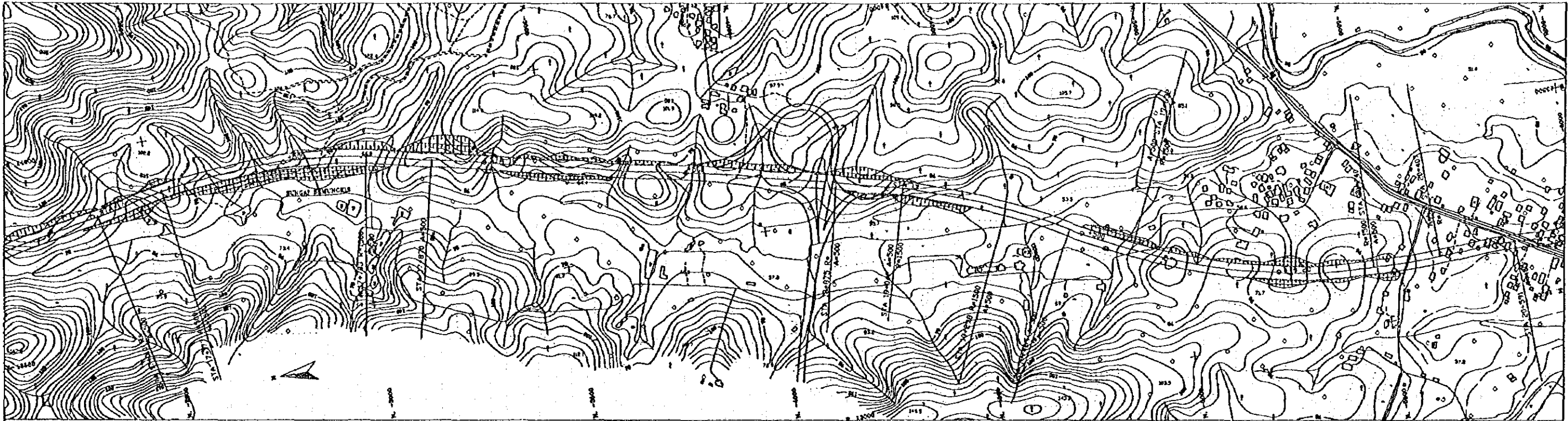


JAPAN INTERNATIONAL COOPERATION AGENCY
HIGHWAY PLANNING UNIT,
MINISTRY OF WORKS, MALAYSIA
CONSULTANTS:
FUKUYAMA CONSULTANTS INTERNATIONAL
PACIFIC CONSULTANTS INTERNATIONAL

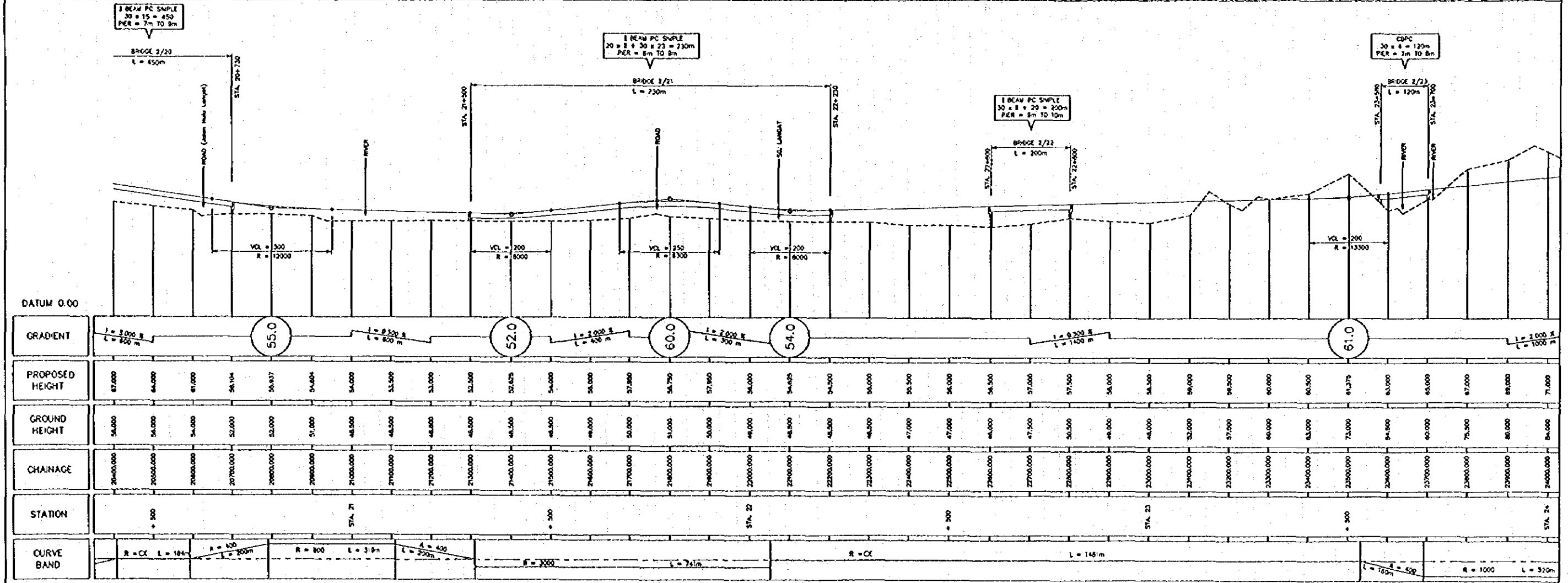
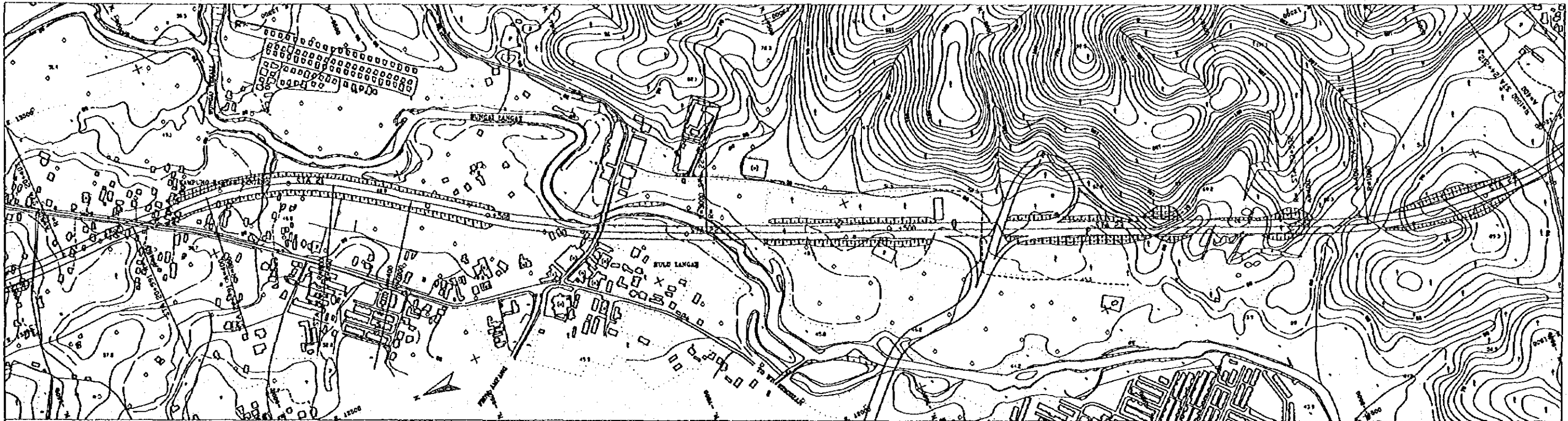
DATE: MARCH 1995



DATUM	40.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
GRADIENT	$i = 4.000\%$ $L = 1300\text{m}$																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
PROPOSED HEIGHT	213.000	209.000	205.000	201.000	197.000	193.000	189.000	185.000	181.000	177.000	173.000	170.000	168.000	165.000	161.000	157.000	153.000	149.000	145.000	141.000	137.000	133.000	129.000	125.000	121.000	117.000	113.000	109.000	105.000	101.000	97.000	93.000	89.125	85.125	81.125	77.125	73.125																																																																																																																																																																																																																																																																																																																																																																																																																																																			
GROUND HEIGHT	238.500	230.000	221.000	212.000	203.000	194.000	185.000	176.000	167.000	158.000	149.000	140.000	131.000	122.000	113.000	104.000	95.000	86.000	77.000	68.000	59.000	50.000	41.000	32.000	23.000	14.000	5.000	-4.000	-13.000	-22.000	-31.000	-40.000	-49.000	-58.000	-67.000	-76.000	-85.000	-94.000	-103.000	-112.000	-121.000	-130.000	-139.000	-148.000	-157.000	-166.000	-175.000	-184.000	-193.000	-202.000	-211.000	-220.000	-229.000	-238.000	-247.000	-256.000	-265.000	-274.000	-283.000	-292.000	-301.000	-310.000	-319.000	-328.000	-337.000	-346.000	-355.000	-364.000	-373.000	-382.000	-391.000	-400.000	-409.000	-418.000	-427.000	-436.000	-445.000	-454.000	-463.000	-472.000	-481.000	-490.000	-499.000	-508.000	-517.000	-526.000	-535.000	-544.000	-553.000	-562.000	-571.000	-580.000	-589.000	-598.000	-607.000	-616.000	-625.000	-634.000	-643.000	-652.000	-661.000	-670.000	-679.000	-688.000	-697.000	-706.000	-715.000	-724.000	-733.000	-742.000	-751.000	-760.000	-769.000	-778.000	-787.000	-796.000	-805.000	-814.000	-823.000	-832.000	-841.000	-850.000	-859.000	-868.000	-877.000	-886.000	-895.000	-904.000	-913.000	-922.000	-931.000	-940.000	-949.000	-958.000	-967.000	-976.000	-985.000	-994.000	-1003.000	-1012.000	-1021.000	-1030.000	-1039.000	-1048.000	-1057.000	-1066.000	-1075.000	-1084.000	-1093.000	-1102.000	-1111.000	-1120.000	-1129.000	-1138.000	-1147.000	-1156.000	-1165.000	-1174.000	-1183.000	-1192.000	-1201.000	-1210.000	-1219.000	-1228.000	-1237.000	-1246.000	-1255.000	-1264.000	-1273.000	-1282.000	-1291.000	-1300.000	-1309.000	-1318.000	-1327.000	-1336.000	-1345.000	-1354.000	-1363.000	-1372.000	-1381.000	-1390.000	-1399.000	-1408.000	-1417.000	-1426.000	-1435.000	-1444.000	-1453.000	-1462.000	-1471.000	-1480.000	-1489.000	-1498.000	-1507.000	-1516.000	-1525.000	-1534.000	-1543.000	-1552.000	-1561.000	-1570.000	-1579.000	-1588.000	-1597.000	-1606.000	-1615.000	-1624.000	-1633.000	-1642.000	-1651.000	-1660.000	-1669.000	-1678.000	-1687.000	-1696.000	-1705.000	-1714.000	-1723.000	-1732.000	-1741.000	-1750.000	-1759.000	-1768.000	-1777.000	-1786.000	-1795.000	-1804.000	-1813.000	-1822.000	-1831.000	-1840.000	-1849.000	-1858.000	-1867.000	-1876.000	-1885.000	-1894.000	-1903.000	-1912.000	-1921.000	-1930.000	-1939.000	-1948.000	-1957.000	-1966.000	-1975.000	-1984.000	-1993.000	-2002.000	-2011.000	-2020.000	-2029.000	-2038.000	-2047.000	-2056.000	-2065.000	-2074.000	-2083.000	-2092.000	-2101.000	-2110.000	-2119.000	-2128.000	-2137.000	-2146.000	-2155.000	-2164.000	-2173.000	-2182.000	-2191.000	-2200.000	-2209.000	-2218.000	-2227.000	-2236.000	-2245.000	-2254.000	-2263.000	-2272.000	-2281.000	-2290.000	-2299.000	-2308.000	-2317.000	-2326.000	-2335.000	-2344.000	-2353.000	-2362.000	-2371.000	-2380.000	-2389.000	-2398.000	-2407.000	-2416.000	-2425.000	-2434.000	-2443.000	-2452.000	-2461.000	-2470.000	-2479.000	-2488.000	-2497.000	-2506.000	-2515.000	-2524.000	-2533.000	-2542.000	-2551.000	-2560.000	-2569.000	-2578.000	-2587.000	-2596.000	-2605.000	-2614.000	-2623.000	-2632.000	-2641.000	-2650.000	-2659.000	-2668.000	-2677.000	-2686.000	-2695.000	-2704.000	-2713.000	-2722.000	-2731.000	-2740.000	-2749.000	-2758.000	-2767.000	-2776.000	-2785.000	-2794.000	-2803.000	-2812.000	-2821.000	-2830.000	-2839.000	-2848.000	-2857.000	-2866.000	-2875.000	-2884.000	-2893.000	-2902.000	-2911.000	-2920.000	-2929.000	-2938.000	-2947.000	-2956.000	-2965.000	-2974.000	-2983.000	-2992.000	-3001.000	-3010.000	-3019.000	-3028.000	-3037.000	-3046.000	-3055.000	-3064.000	-3073.000	-3082.000	-3091.000	-3100.000	-3109.000	-3118.000	-3127.000	-3136.000	-3145.000	-3154.000	-3163.000	-3172.000	-3181.000	-3190.000	-3199.000	-3208.000	-3217.000	-3226.000	-3235.000	-3244.000	-3253.000	-3262.000	-3271.000	-3280.000	-3289.000	-3298.000	-3307.000	-3316.000	-3325.000	-3334.000	-3343.000	-3352.000	-3361.000	-3370.000	-3379.000	-3388.000	-3397.000	-3406.000	-3415.000	-3424.000	-3433.000	-3442.000	-3451.000	-3460.000	-3469.000	-3478.000	-3487.000	-3496.000	-3505.000	-3514.000	-3523.000	-3532.000	-3541.000	-3550.000	-3559.000	-3568.000	-3577.000	-3586.000	-3595.000	-3604.000	-3613.000	-3622.000	-3631.000	-3640.000	-3649.000	-3658.000	-3667.000	-3676.000	-3685.000	-3694.000	-3703.000	-3712.000	-3721.000	-3730.000	-3739.000	-3748.000	-3757.000	-3766.000	-3775.000	-3784.000	-3793.000	-3802.000	-3811.000	-3820.000	-3829.000	-3838.000	-3847.000	-3856.000	-3865.000	-3874.000	-3883.000	-3892.000	-3901.000	-3910.000	-3919.000	-3928.000	-3937.000	-3946.000	-3955.000	-3964.000	-3973.000	-3982.000	-3991.000	-4000.000
CHAINAGE	1300.000	1340.000	1380.000	1420.000	1460.000	1500.000	1540.000	1580.000	1620.000	1660.000	1700.000	1740.000	1780.000	1820.000	1860.000	1900.000	1940.000	1980.000	2020.000	2060.000	2100.000	2140.000	2180.000	2220.000	2260.000	2300.000	2340.000	2380.000	2420.000	2460.000	2500.000	2540.000	2580.000	2620.000	2660.000	2700.000	2740.000	2780.000	2820.000	2860.000	2900.000	2940.000	2980.000	3020.000	3060.000	3100.000	3140.000	3180.000	3220.000	3260.000	3300.000	3340.000	3380.000	3420.000	3460.000	3500.000	3540.000	3580.000	3620.000	3660.000	3700.000	3740.000	3780.000	3820.000	3860.000	3900.000	3940.000	3980.000	4020.000	4060.000	4100.000	4140.000	4180.000	4220.000	4260.000	4300.000	4340.000	4380.000	4420.000	4460.000	4500.000	4540.000	4580.000	4620.000	4660.000	4700.000	4740.000	4780.000	4820.000	4860.000	4900.000	4940.000	4980.000	5020.000	5060.000	5100.000	5140.000	5180.000	5220.000	5260.000	5300.000	5340.000	5380.000	5420.000	5460.000	5500.000	5540.000	5580.000	5620.000	5660.000	5700.000	5740.000	5780.000	5820.000	5860.000	5900.000	5940.000	5980.000	6020.000	6060.000	6100.000	6140.000	6180.000	6220.000	6260.000	6300.000	6340.000	6380.000	6420.000	6460.000	6500.000	6540.000	6580.000	6620.000	6660.000	6700.000	6740.000	6780.000	6820.000	6860.000	6900.000	6940.000	6980.000	7020.000	7060.000	7100.000	7140.000	7180.000	7220.000	7260.000	7300.000	7340.000	7380.000	7420.000	7460.000	7500.000	7540.000	7580.000	7620.000	7660.000	7700.000	7740.000	7780.000	7820.000	7860.000	7900.000	7940.000	7980.000	8020.000	8060.000	8100.000	8140.000	8180.000	8220.000	8260.000	8300.000	8340.000	8380.000	8420.000	8460.000	8500.000	8540.000	8580.000	8620.000	8660.000	8700.000	8740.000	8780.000	8820.000	8860.000	8900.000	8940.000	8980.000	9020.000	9060.000	9100.000	9140.000	9180.000	9220.000	9260.000	9300.000	9340.000	9380.000	9420.000	9460.000	9500.000	9540.000	9580.000	9620.000	9660.000	9700.000	9740.000	9780.000	9820.000	9860.000	9900.000	9940.000	9980.000	10000.000																																																																																																																																																																																																																																																													
STATION	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850	5900	5950	6000	6050	6100	6150	6200	6250	6300	6350	6400	6450	6500	6550	6600	6650	6700	6750	6800	6850	6900	6950	7000	7050	7100	7150	7200	7250	7300	7350	7400	7450	7500	7550	7600	7650	7700	7750	7800	7850	7900	7950	8000	8050	8100	8150	8200	8250	8300	8350	8400	8450	8500	8550	8600	8650	8700	8750	8800	8850	8900	8950	9000	9050	9100	9150	9200	9250	9300	9350	9400	9450	9500	9550	9600	9650	9700	9750	9800	9850	9900	9950	10000																																																																																																																																																																																																																																																																															
CURVE BAND	$R = CK$ $L = 231\text{m}$ $A = 500$ $L = 187\text{m}$ $R = 1500$ $L = 437\text{m}$ $A = 500$ $L = 187\text{m}$ $R = 1500$ $L = 225\text{m}$ $A = 500$ $L = 187\text{m}$ $R = CK$ $L = 1169\text{m}$ $A = 500$ $L = 187\text{m}$																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

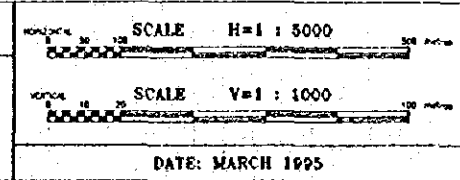


<h2 style="text-align: center;">THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA</h2>	PLAN NO: 13 PLAN TITLE: <h3 style="text-align: center;">PLAN and PROFILE</h3>	SCALE H = 1 : 5000 SCALE V = 1 : 1000 DATE: MARCH 1995	JAPAN INTERNATIONAL COOPERATION AGENCY HIGHWAY PLANNING UNIT, MINISTRY OF WORKS, MALAYSIA CONSULTANTS: FUKUYAMA CONSULTANTS INTERNATIONAL PACIFIC CONSULTANTS INTERNATIONAL
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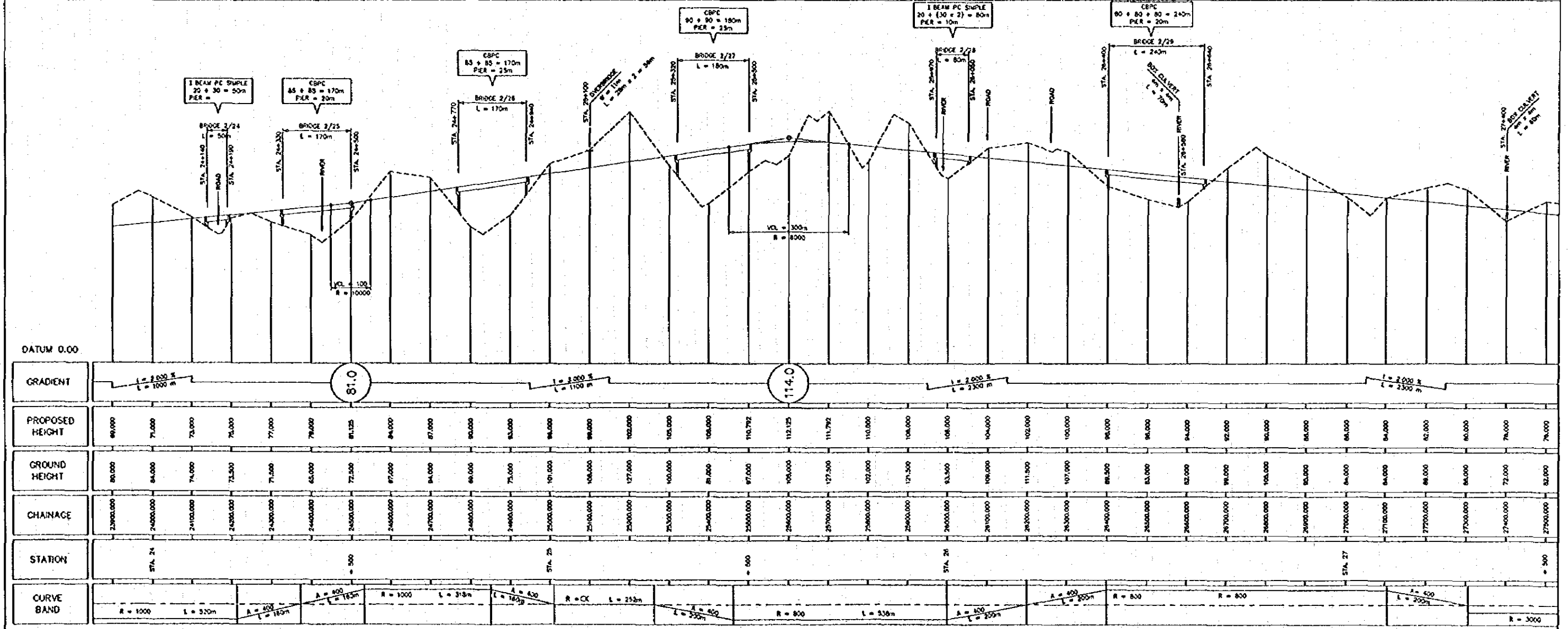
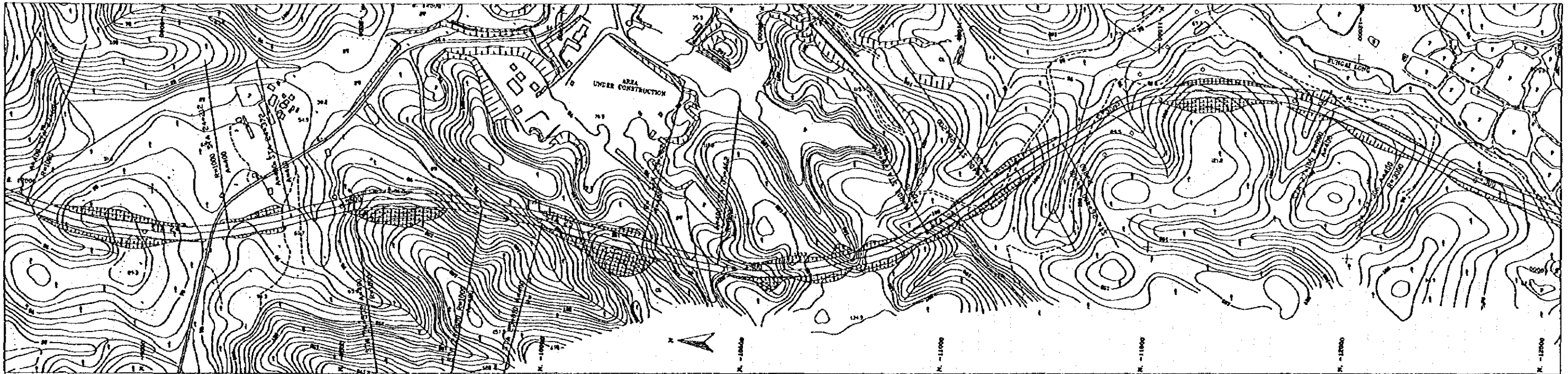
THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA

PLAN NO: 14
 PLAN TITLE:
PLAN and PROFILE



JAPAN INTERNATIONAL COOPERATION AGENCY
 HIGHWAY PLANNING UNIT,
 MINISTRY OF WORKS, MALAYSIA

CONSULTANTS:
 FUKUYAMA CONSULTANTS INTERNATIONAL
 PACIFIC CONSULTANTS INTERNATIONAL



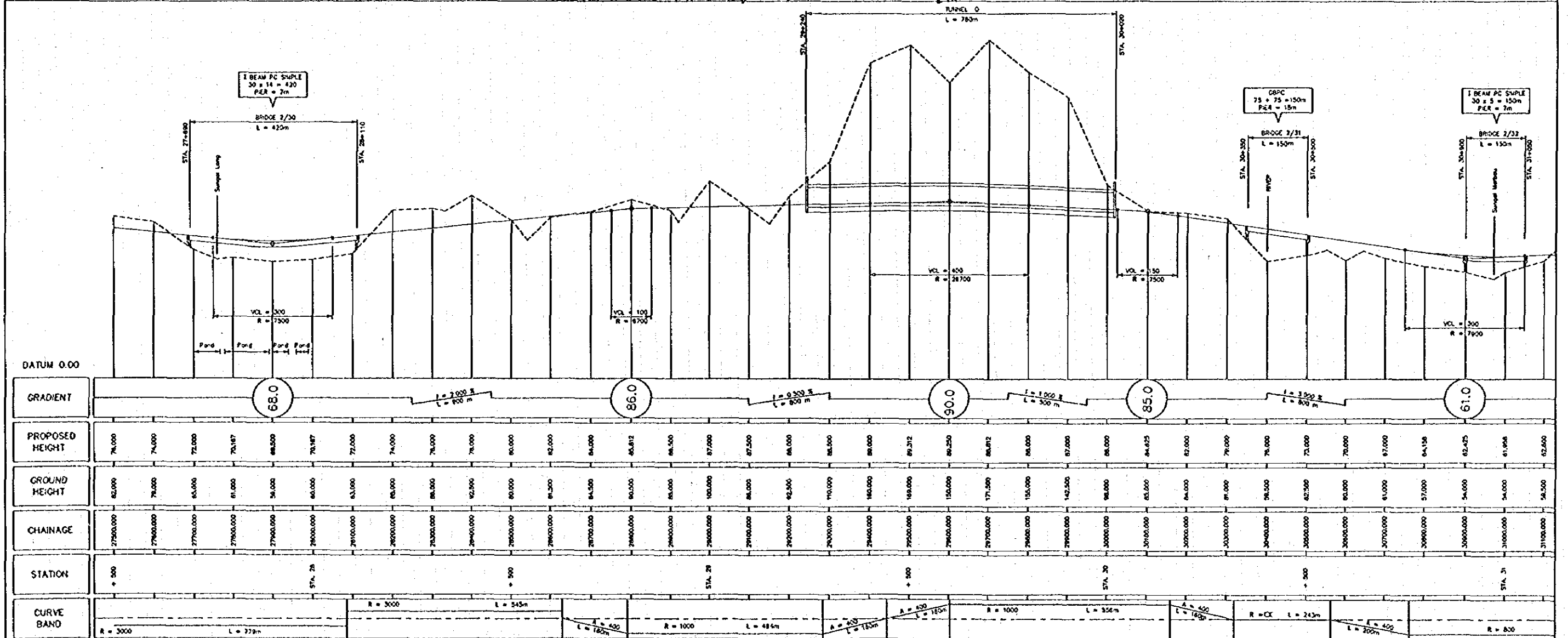
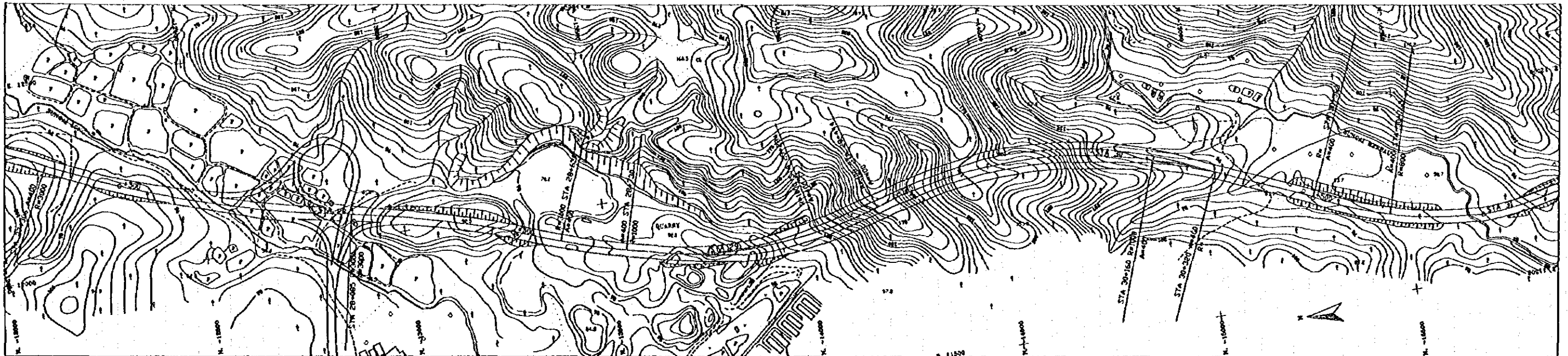
**THE FEASIBILITY STUDY ON
KUALA LUMPUR OUTER RING ROAD IN MALAYSIA**

PLAN and PROFILE

PLAN NO: 15
PLAN TITLE: **PLAN and PROFILE**

SCALE H=1 : 6000
SCALE V=1 : 1000
DATE: MARCH 1995

JAPAN INTERNATIONAL COOPERATION AGENCY
HIGHWAY PLANNING UNIT,
MINISTRY OF WORKS, MALAYSIA
CONSULTANTS:
FUKUYAMA CONSULTANTS INTERNATIONAL
PACIFIC CONSULTANTS INTERNATIONAL



GRADIENT	68.0		86.0		90.0		85.0		61.0																												
PROPOSED HEIGHT	74.000	74.000	72.000	70.187	68.500	70.187	72.000	74.000	76.000	78.000	80.000	82.000	84.000	86.812	88.500	87.000	87.500	86.000	86.500	88.000	89.312	89.250	88.812	88.000	87.000	86.000	84.825	82.000	78.000	73.000	70.000	67.000	64.158	62.425	61.958	62.600	
GROUND HEIGHT	62.000	76.000	65.000	61.000	56.000	61.000	63.000	66.000	68.000	69.000	69.000	69.500	69.500	69.000	68.000	67.000	66.000	65.000	64.000	63.000	62.000	61.000	60.000	59.000	58.000	57.000	56.000	55.000	54.000	53.000	52.000	51.000	50.000	49.000	48.000	47.000	46.000
CHAINAGE	27500.000	27600.000	27700.000	27800.000	27900.000	28000.000	28100.000	28200.000	28300.000	28400.000	28500.000	28600.000	28700.000	28800.000	28900.000	29000.000	29100.000	29200.000	29300.000	29400.000	29500.000	29600.000	29700.000	29800.000	29900.000	30000.000	30100.000	30200.000	30300.000	30400.000	30500.000	30600.000	30700.000	30800.000	30900.000	31000.000	31100.000
STATION	+ 500				STA. 28				+ 300				STA. 29				+ 100				STA. 30				+ 300				STA. 31								
CURVE BAND	R = 3000		L = 378m		R = 3000		L = 545m		R = 1000		L = 485m		R = 1000		L = 356m		R = CC		L = 243m		R = 800		L = 200m		R = 800		L = 200m		R = 800		L = 200m		R = 800		L = 200m		

THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA

PLAN NO: 16

PLAN TITLE:
PLAN and PROFILE

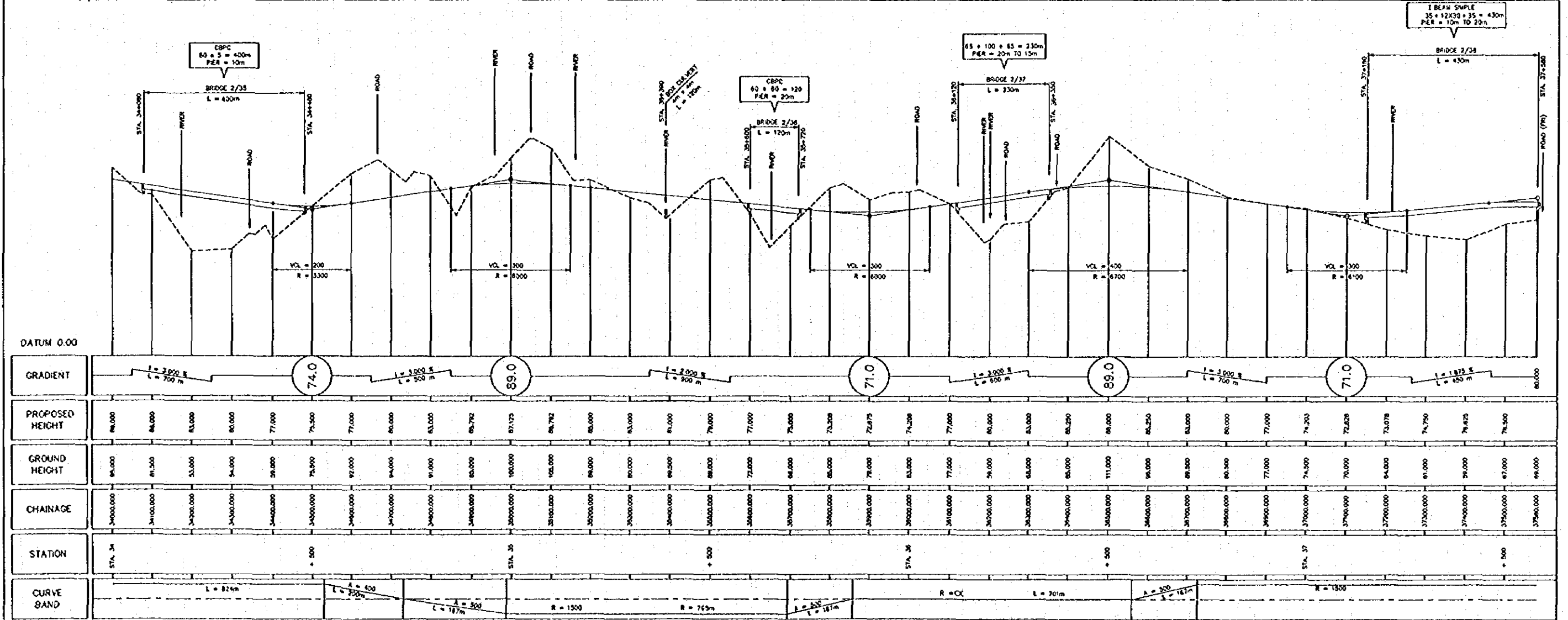
SCALE H=1 : 6000

SCALE V=1 : 1000

DATE: MARCH 1995

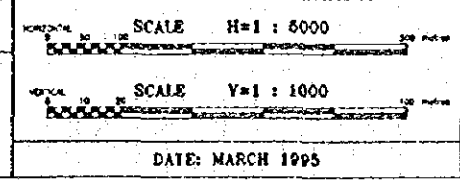
JAPAN INTERNATIONAL COOPERATION AGENCY
HIGHWAY PLANNING UNIT,
MINISTRY OF WORKS, MALAYSIA

CONSULTANTS:
FUKUYAMA CONSULTANTS INTERNATIONAL
PACIFIC CONSULTANTS INTERNATIONAL

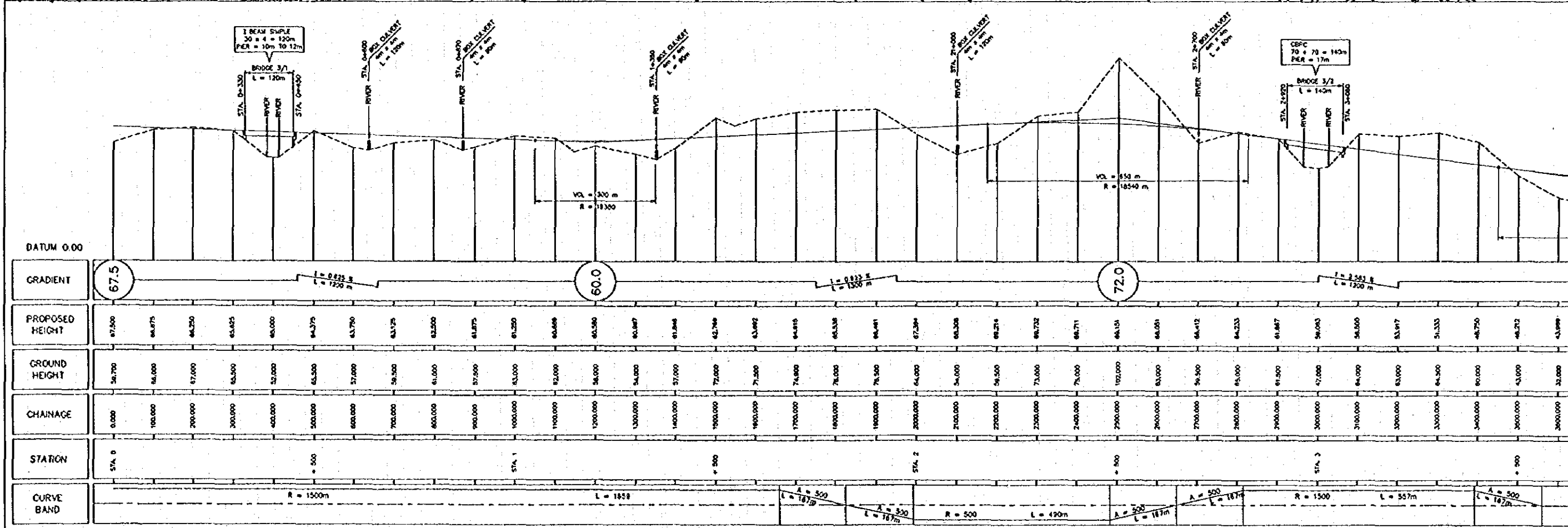
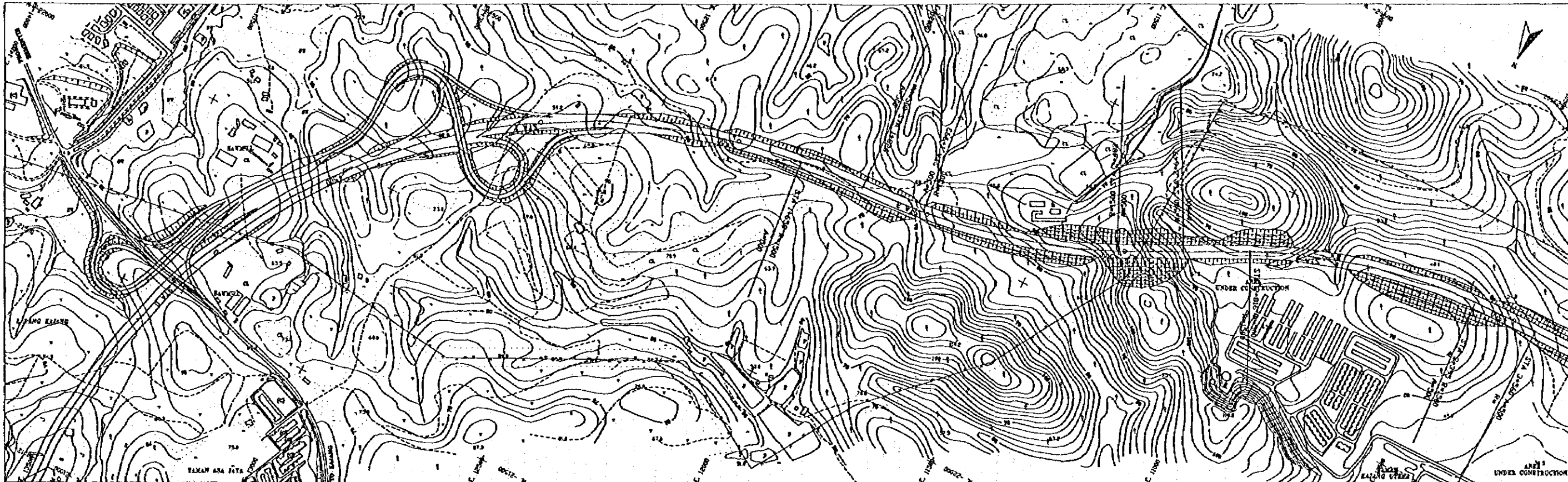


THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA

PLAN NO: 18
PLAN TITLE:
PLAN and PROFILE



JAPAN INTERNATIONAL COOPERATION AGENCY
HIGHWAY PLANNING UNIT,
MINISTRY OF WORKS, MALAYSIA
CONSULTANTS:
FUKUYAMA CONSULTANTS INTERNATIONAL
PACIFIC CONSULTANTS INTERNATIONAL

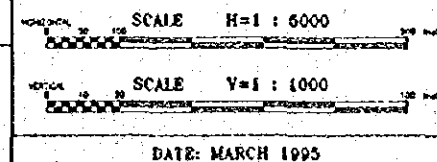


THE FEASIBILITY STUDY ON KUALA LUMPUR OUTER RING ROAD IN MALAYSIA

PLAN NO: 19

PLAN TITLE:

PLAN and PROFILE



JAPAN INTERNATIONAL COOPERATION AGENCY
HIGHWAY PLANNING UNIT,
MINISTRY OF WORKS, MALAYSIA

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