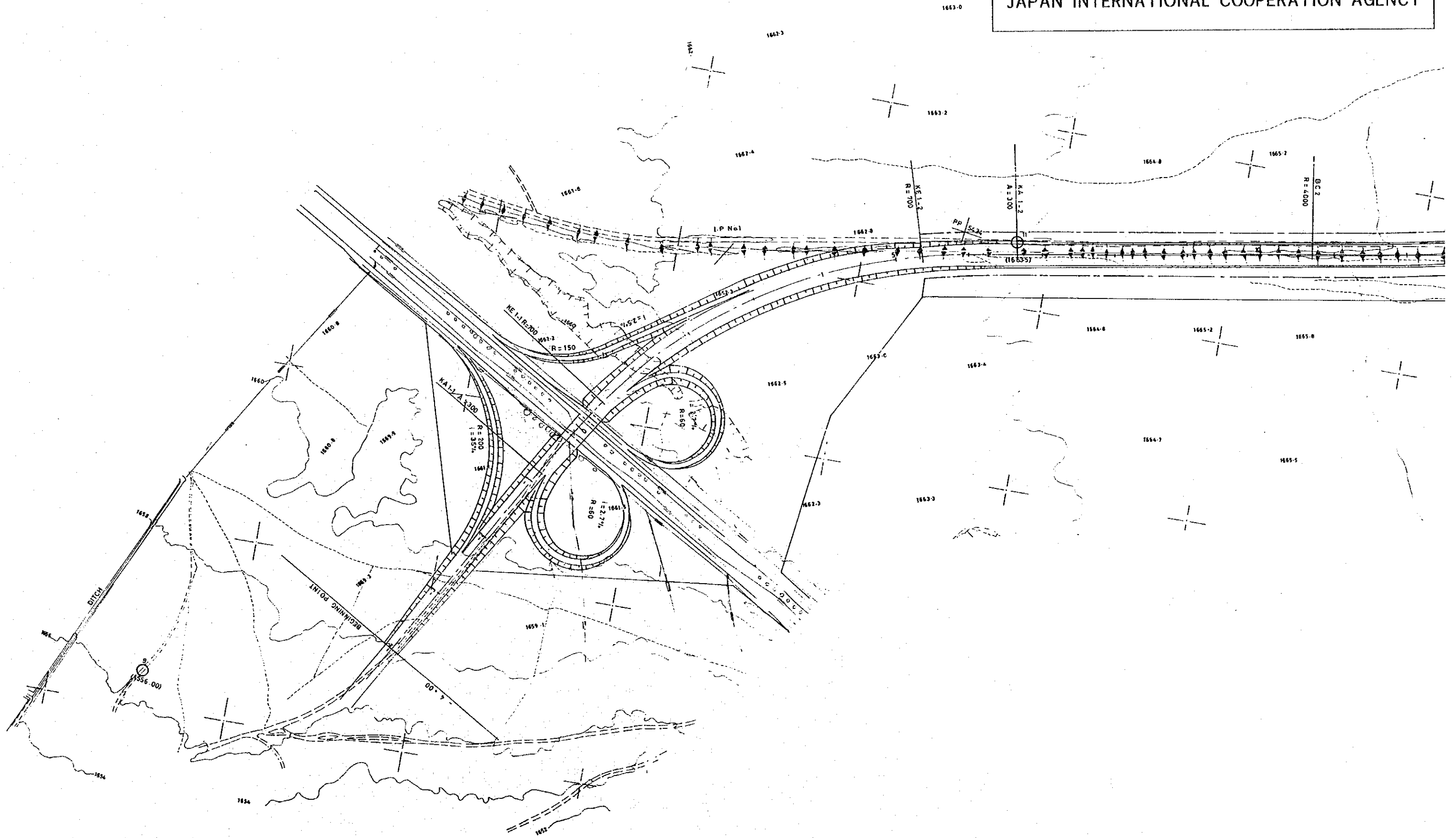
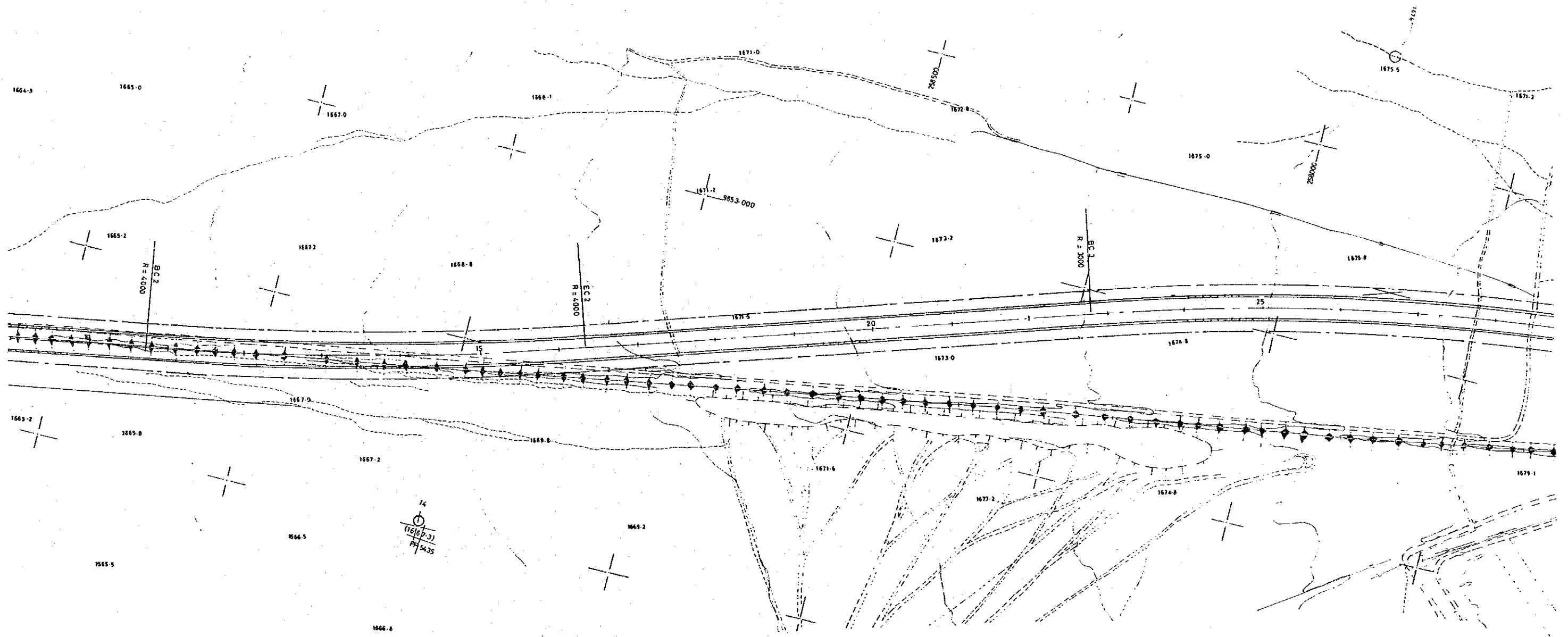


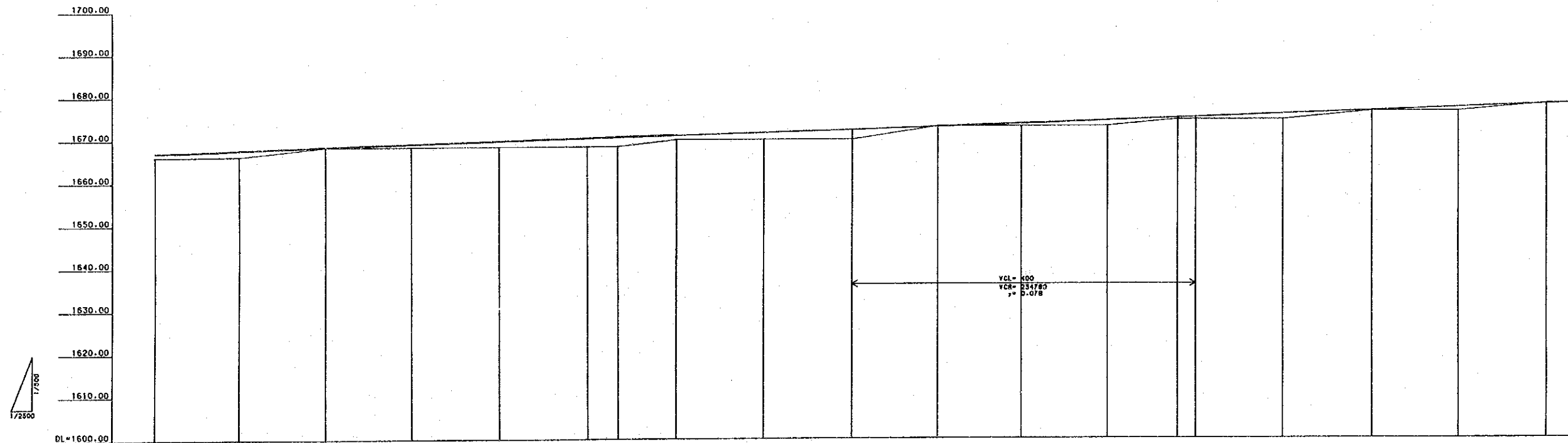
MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PLAN (STA NO -4+00 ~ STA NO 11+00)
 SCALE : 1:5000 (SHEET 1 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY



MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PLAN (STA NO 11+00 ~ STA NO 26+00)
 SCALE : 1:5000 (SHEET 2 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY

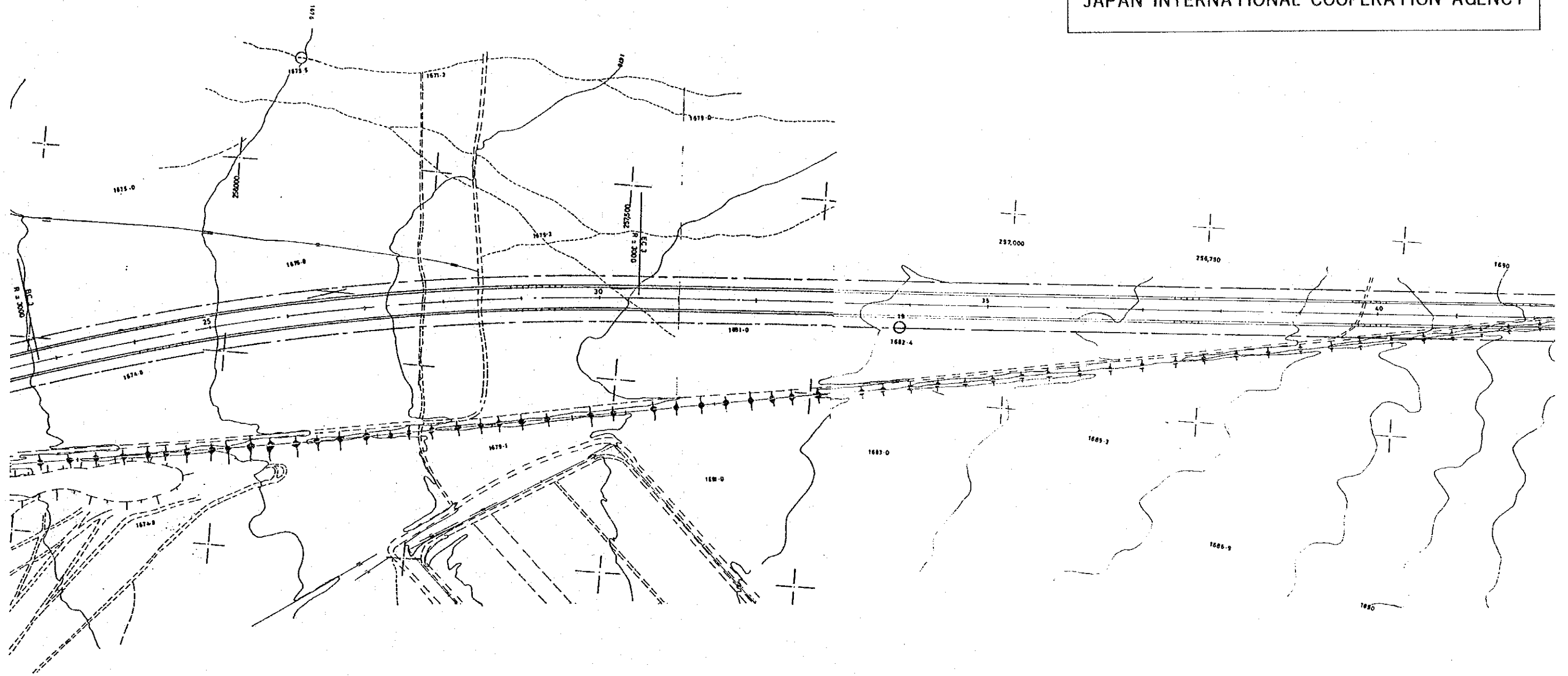


MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 11+00 ~ STA NO 26+00)
 SCALE: H=1:5000, V=1:1000 (SHEET 2 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY

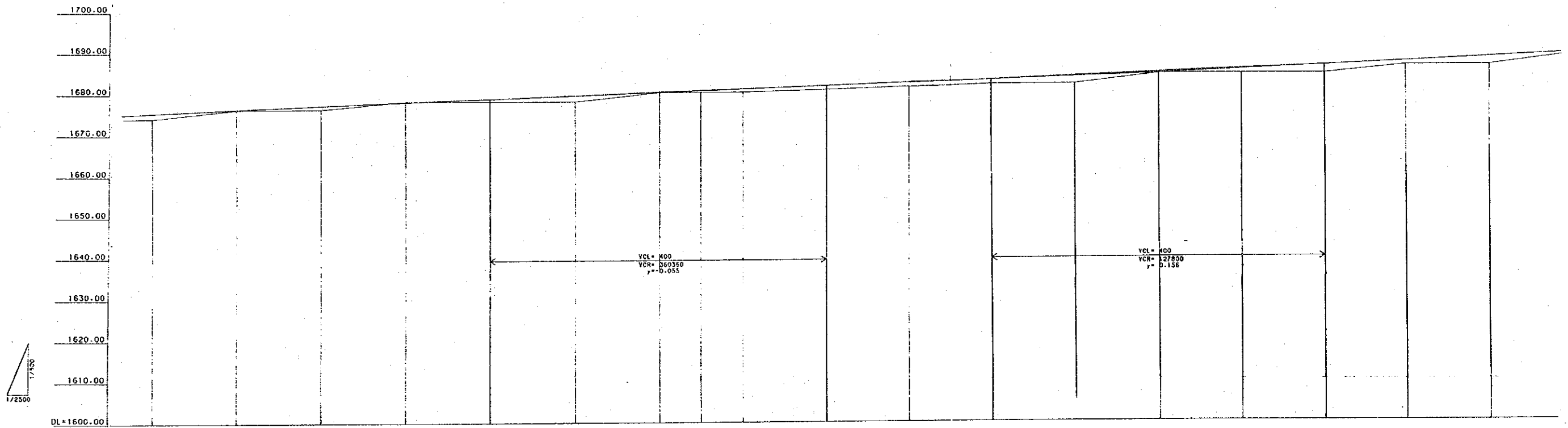


Gradient																	
Fill	1.844	1.747	0.320	0.312	1.458	3.073	1.182	1.745	2.328	0.594	1.288	0.380	0.356	1.303	0.111	0.888	
Cut										0.088							
Proposed height	1667.164	1657.747	1668.320	1668.912	1669.488	1670.073	1670.612	1671.245	1671.823	1672.435	1673.098	1673.794	1674.390	1674.558	1675.333	1676.111	1676.889
Ground height	1665.000	1665.000	1668.000	1668.000	1668.000	1668.000	1669.500	1669.500	1670.500	1672.500	1672.500	1672.500	1674.000	1674.000	1674.000	1676.000	1676.000
Accumulated distance	1100.000	1200.000	1300.000	1400.000	1500.000	1600.000	1634.418	1700.000	1800.000	1800.000	1900.000	2000.000	2078.923	2106.000	2405.000	2500.000	2600.000
Distance	28.418	100.000	100.000	100.000	100.000	100.000	34.418	65.582	100.000	100.000	100.000	100.000	78.923	21.077	100.000	100.000	100.000
Station	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16	EC2	NO. 17	NO. 18	NO. 19	NO. 20	NO. 21	NO. 22	NO. 23	NO. 24	NO. 25	NO. 26
Curvature	<p>IP= 0 IA= 8-03-33 R= 4000.000 CL= 813.027 TL= 261.833 SL= 8.928</p> <p>L= 644.505</p> <p>IP= 3 IA= 14-43-40 R= 3600.000 CL= 771.148 TL= 387.710 SL= 24.848</p>																

MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 24+00 ~ STA NO 40+00)
SCALE : 1:5000 (SHEET 3 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY

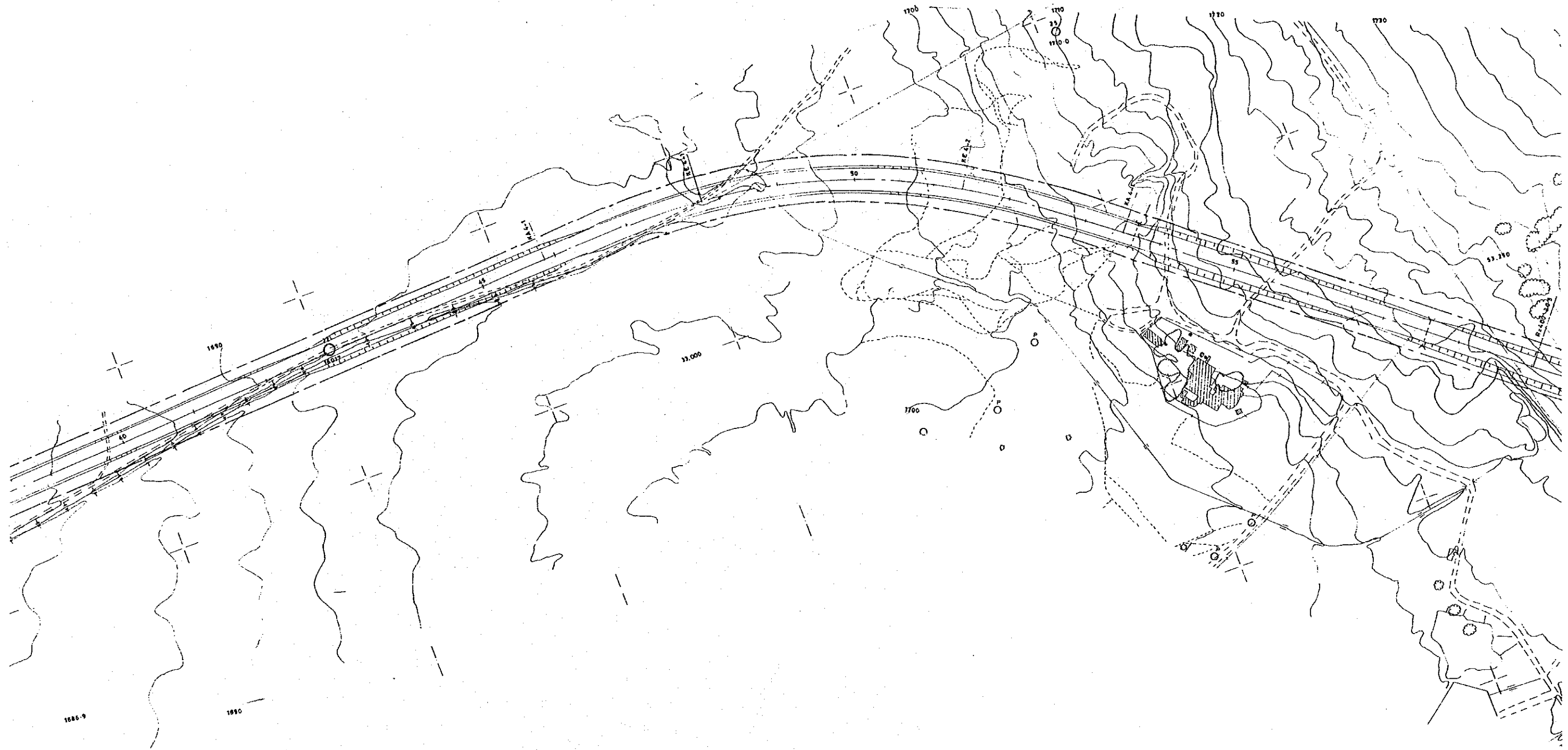


MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 24+00 ~ STA NO 40+00)
 SCALE: H=1:5000, V=1:1000 (SHEET 3 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY

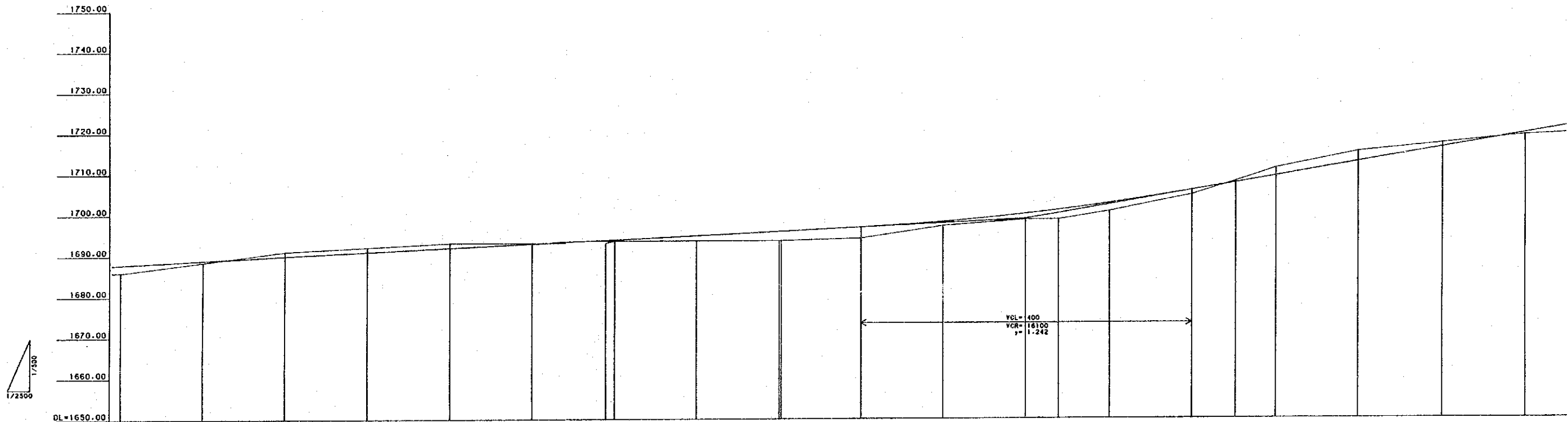


Gradient	I = 0.778%		I = 0.667%																	
Fill	1.333	0.111	0.889		0.644	1.408	0.044	0.403	0.733	0.933	1.000	1.087	1.772	0.137	1.019	1.960	0.940	1.920		
Cut				0.133																
Proposed height	1675.333	1676.111	1676.889	1677.667	1678.444	1679.208	1679.944	1680.303	1680.553	1681.333	1682.000	1682.667	1683.372	1684.157	1685.019	1685.960	1686.910	1687.920		
Ground height	1674.000	1675.000	1676.000	1677.000	1678.000	1679.000	1679.900	1680.300	1680.553	1681.000	1681.600	1682.667	1684.000	1684.000	1684.000	1684.000	1685.000	1686.000	1687.000	
Accumulated distance	2400.000	2500.000	2600.000	2700.000	2800.000	2900.000	3000.000	3050.000	3100.000	3200.000	3300.000	3400.000	3500.000	3600.000	3700.000	3800.000	3900.000	4000.000		
Distance	100.000	100.000	100.000	100.000	100.000	100.000	100.000	50.000	49.931	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000		
Station	24	25	26	27	28	29	30	30.5	31	32	33	34	35	36	37	38	39	40		
Curvature	IP = 3 IA = 14+93+40 R = 3000.000 CL = 271+146 TL = 387.710 SL = 24+949 L = 1538.987																			

MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 40+00 ~ STA NO 57+00)
SCALE : 1:5000 (SHEET 4 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY

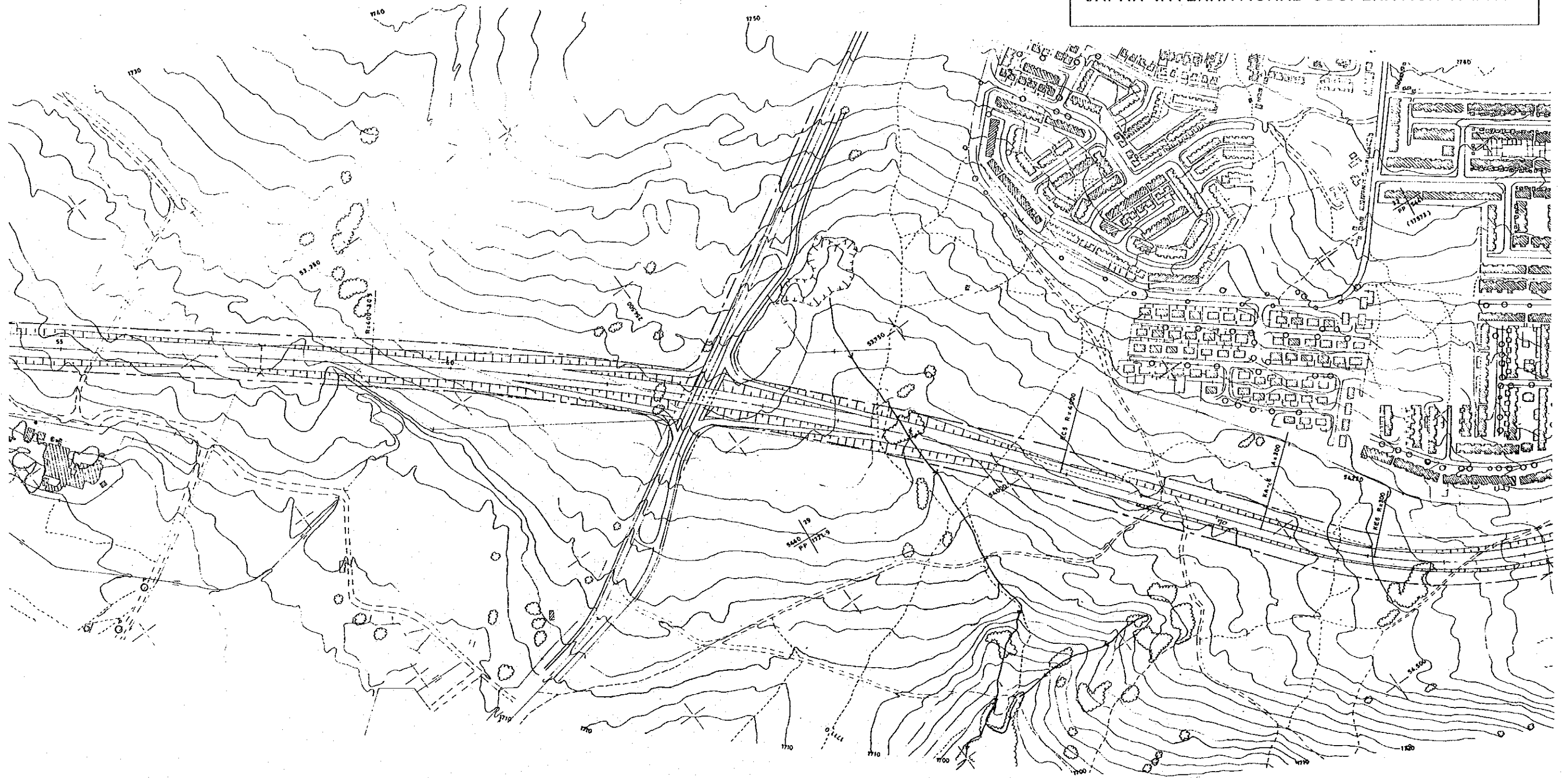


MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 40+00 ~ STA NO 57+00)
 SCALE: H=1:5000, V=1:1000 (SHEET 4 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY



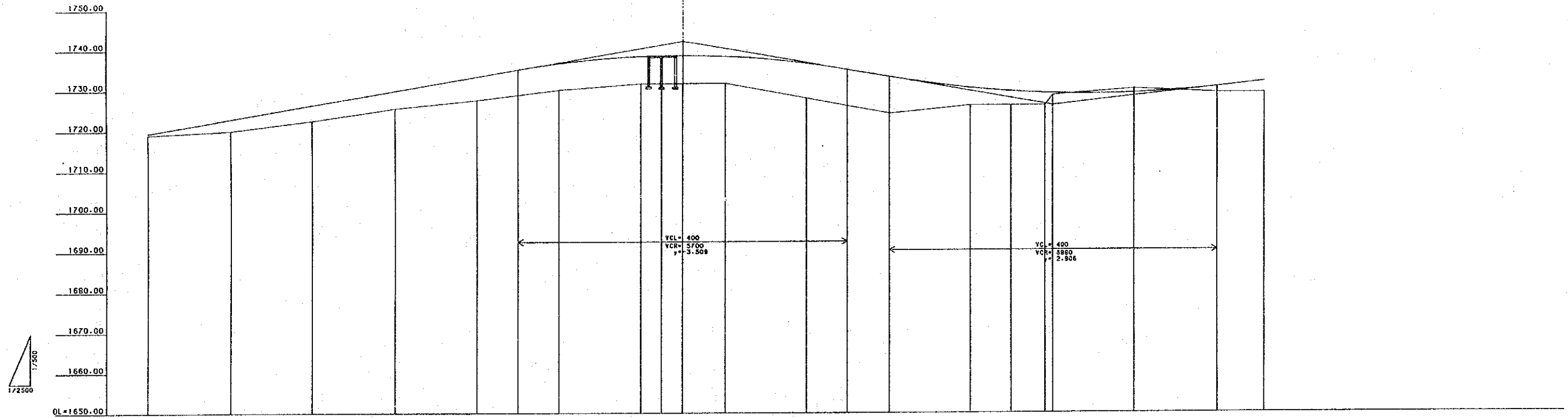
Gradient																		
Fill	1.820	0.400																0.484
Cut			1.120	1.140	1.100		0.180											0.880
Proposed height	1687.220	1688.900	1689.880	1690.880	1691.810		1692.820											1718.020
Ground height	1685.400	1688.500	1691.000	1692.000	1693.000		1693.500											1717.000
Accumulated distance	4000.000	4100.000	4200.000	4300.000	4400.000		4500.000											5700.000
Distance	100.000	100.000	100.000	100.000	100.000		100.000											100.000
Station	40+00	41+00	42+00	43+00	44+00		45+00											57+00
Curvature	<p> $IP = 41+58-31$ $A1 = 400.000$ $R = 750.000$ $CL = 762.781$ $A2 = 400.000$ $L1 = 213.333$ $L = 1189.457$ $L2 = 213.333$ </p>																	

MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 57+00 ~ STA NO 70+00)
SCALE : 1:5000 (SHEET 5 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY



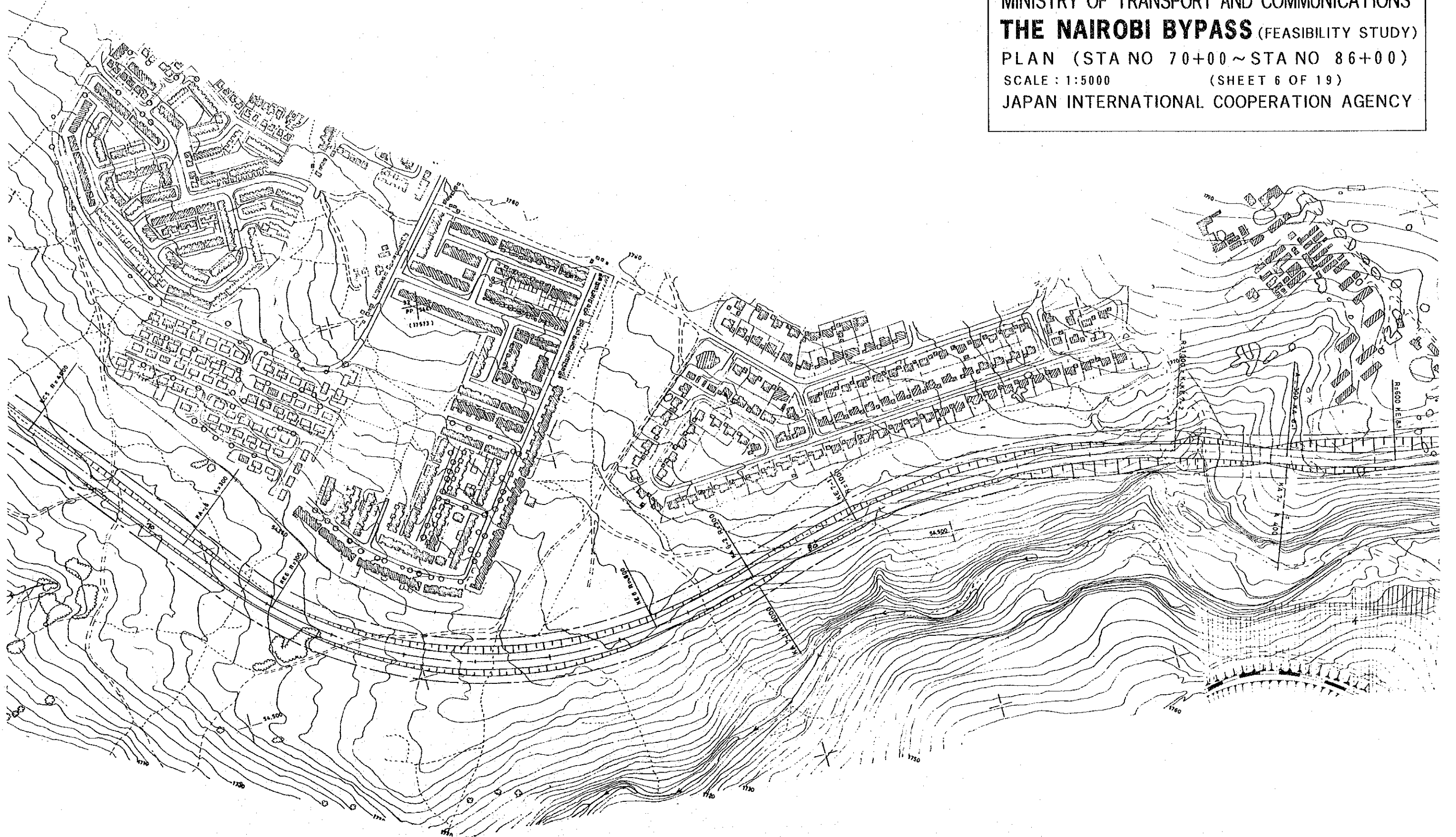
MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 57+00 ~ STA NO 70+00)
 SCALE: H=1:5000, V=1:1000 (SHEET 5 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY

UHURU Junction (C58)

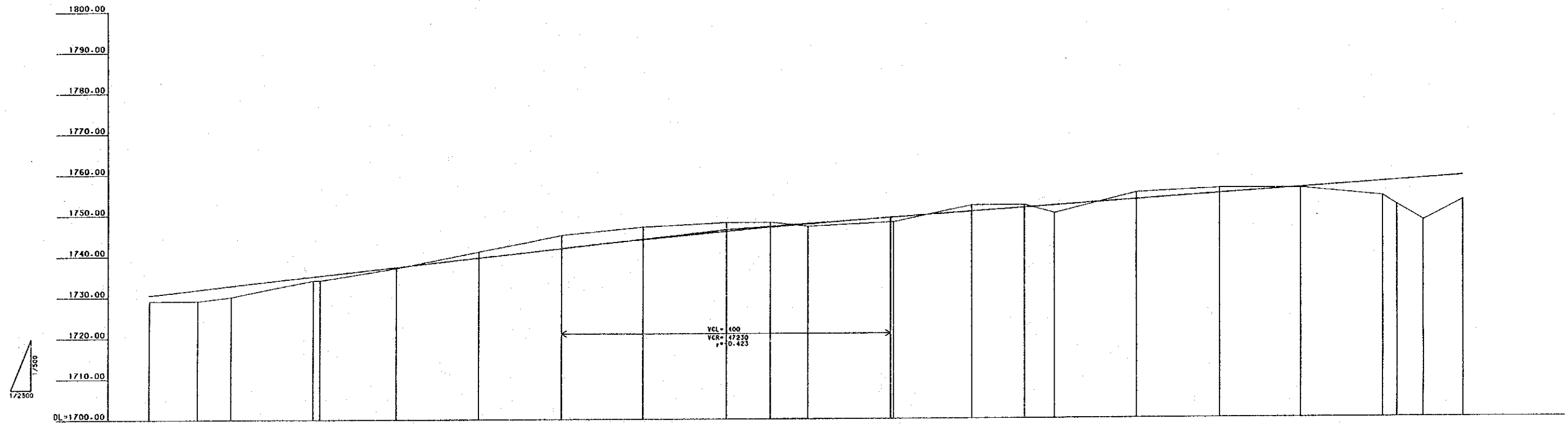


Gradient																				
Fill	0.48	2.94	3.97	4.37	5.84	6.35	5.78	6.84	6.99	6.74	8.64	9.11	4.28	3.42	2.93	0.40	1.01	1.51	2.82	
Cut																	1.01			
Proposed height	1719.48	1722.84	1728.42	1729.87	1733.34	1736.58	1738.23	1738.46	1738.49	1738.24	1736.47	1733.11	1730.28	1728.42	1728.23	1728.50	1728.92	1730.31	1731.82	
Ground height	1715.00	1720.00	1722.50	1725.50	1727.50	1730.00	1731.50	1731.00	1731.00	1731.50	1727.80	1724.00	1728.00	1728.00	1726.00	1728.50	1730.00	1729.00	1729.00	
Accumulated distance	3700.00	5800.00	5888.65	6000.00	6100.00	6200.00	6300.00	6325.00	6350.00	6400.00	6500.00	6600.00	6700.00	6750.00	6800.00	6800.00	6800.00	7000.00	7058.20	
Distance	100.00	100.00	88.65	100.00	100.00	100.00	100.00	25.00	25.00	50.00	100.00	100.00	100.00	50.00	40.64	8.35	100.00	100.00	58.20	
Station	57+00	58+00	58+88.65	59+00	60+00	61+00	62+00	62+25	62+50	63+00	64+00	65+00	66+00	67+00	67+40.64	68+00	69+00	70+00	70+58.20	
Curvature	L=548.00																			

MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 70+00 ~ STA NO 86+00)
SCALE : 1:5000 (SHEET 6 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY

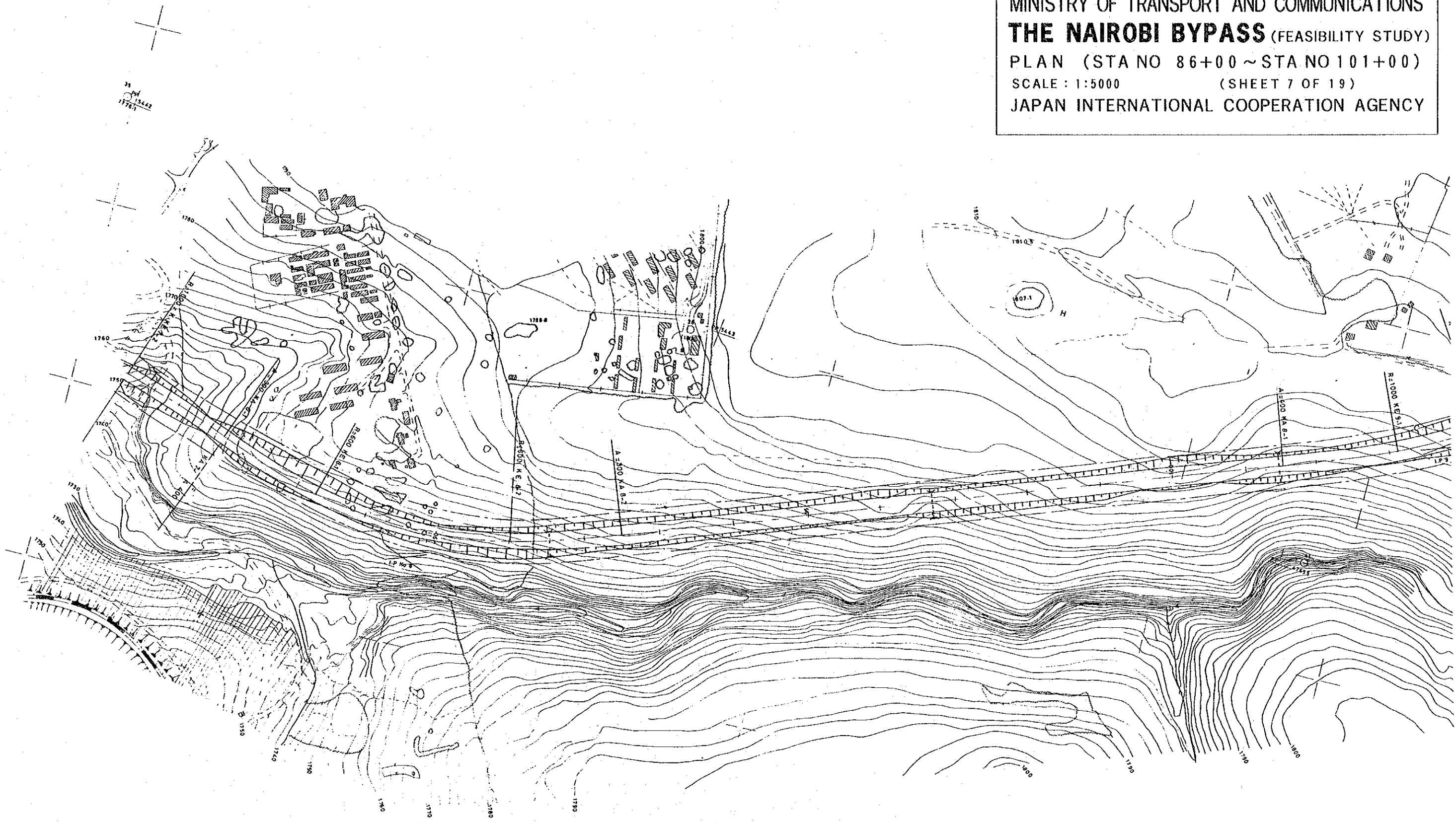


MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 70+00 ~ STA NO 86+00)
 SCALE: H=1:5000, V=1:1000 (SHEET 6 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY

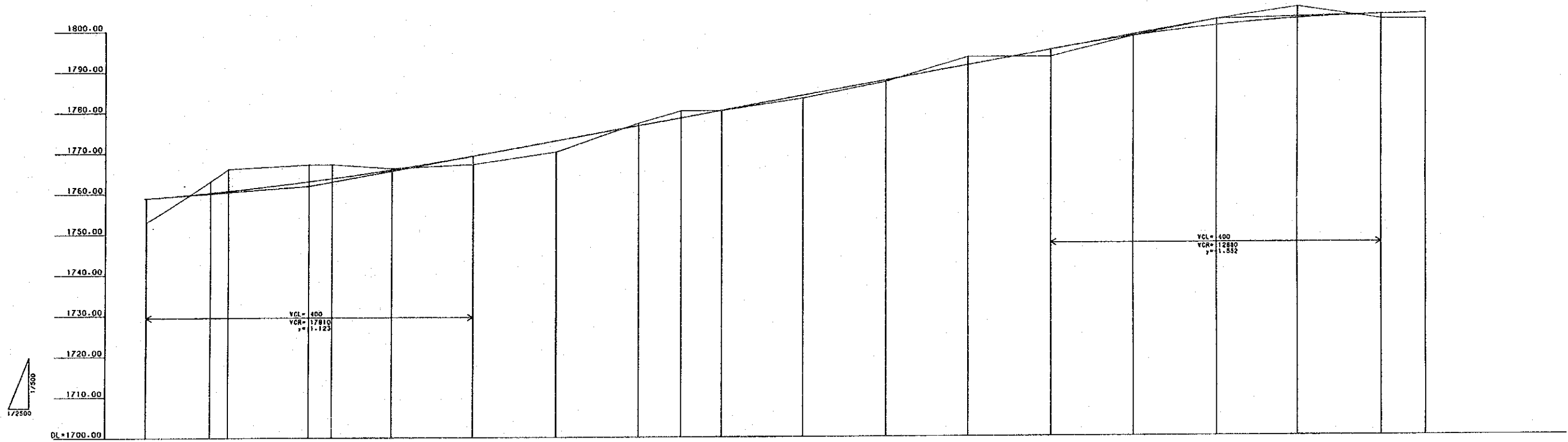


Gradient																							
Fill	1.511	2.824	2.767	1.022	1.207	0.278																	
Cut							1.467	3.211	3.061	2.123	1.173	0.603	1.118	1.473	0.578	1.455	1.240	0.164	3.473	6.022	10.277	5.882	
Proposed height	1730.511	1731.624	1732.767	1733.022	1733.207	1737.278	1738.533	1741.789	1743.839	1745.877	1746.827	1747.603	1748.868	1750.327	1751.422	1751.839	1753.345	1754.725	1756.184	1757.573	1757.822	1758.277	1758.682
Ground height	1729.000	1729.800	1730.000	1734.000	1734.000	1737.000	1741.000	1745.000	1747.000	1748.000	1748.000	1747.000	1748.000	1752.000	1753.000	1750.000	1755.000	1756.000	1756.000	1754.000	1751.800	1748.000	1753.000
Accumulated distance	7000.000	7038.205	7100.000	7260.000	7268.205	7300.000	7400.000	7500.000	7600.000	7700.000	7753.321	7800.000	7889.889	8000.000	8053.521	8100.000	8200.000	8300.000	8400.000	8500.000	8517.876	8550.000	8600.000
Distance	100.000	38.205	41.794	100.000	8.205	91.794	100.000	100.000	100.000	100.000	53.321	48.478	100.000	96.478	63.321	36.478	100.000	100.000	100.000	100.000	17.876	32.324	50.000
Station	NO. 70	KAB-1	NO. 71	NO. 72	KEE-1	NO. 73	NO. 74	NO. 75	NO. 76	NO. 77	KEE-2	NO. 78	NO. 79	NO. 80	KEE-1	NO. 81	NO. 82	NO. 83	NO. 84	NO. 85	KEE-2	NO. 86	
Curvature	$L = 267.364$ $IP = 6$ $IA = 65-23-52$ $A1 = 300.000$ $R = 600.000$ $CL = 845.318$ $A2 = 300.000$ $L1 = 150.000$ $L = 1145.318$ $L2 = 150.000$										$IP = 7$ $IA = 35-11-18$ $A1 = 400.000$ $R = 1000.000$ $CL = 174.134$ $A2 = 400.000$ $L1 = 100.000$ $L = 1094.134$ $L2 = 100.000$												

MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 86+00 ~ STA NO 101+00)
SCALE : 1:5000 (SHEET 7 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY

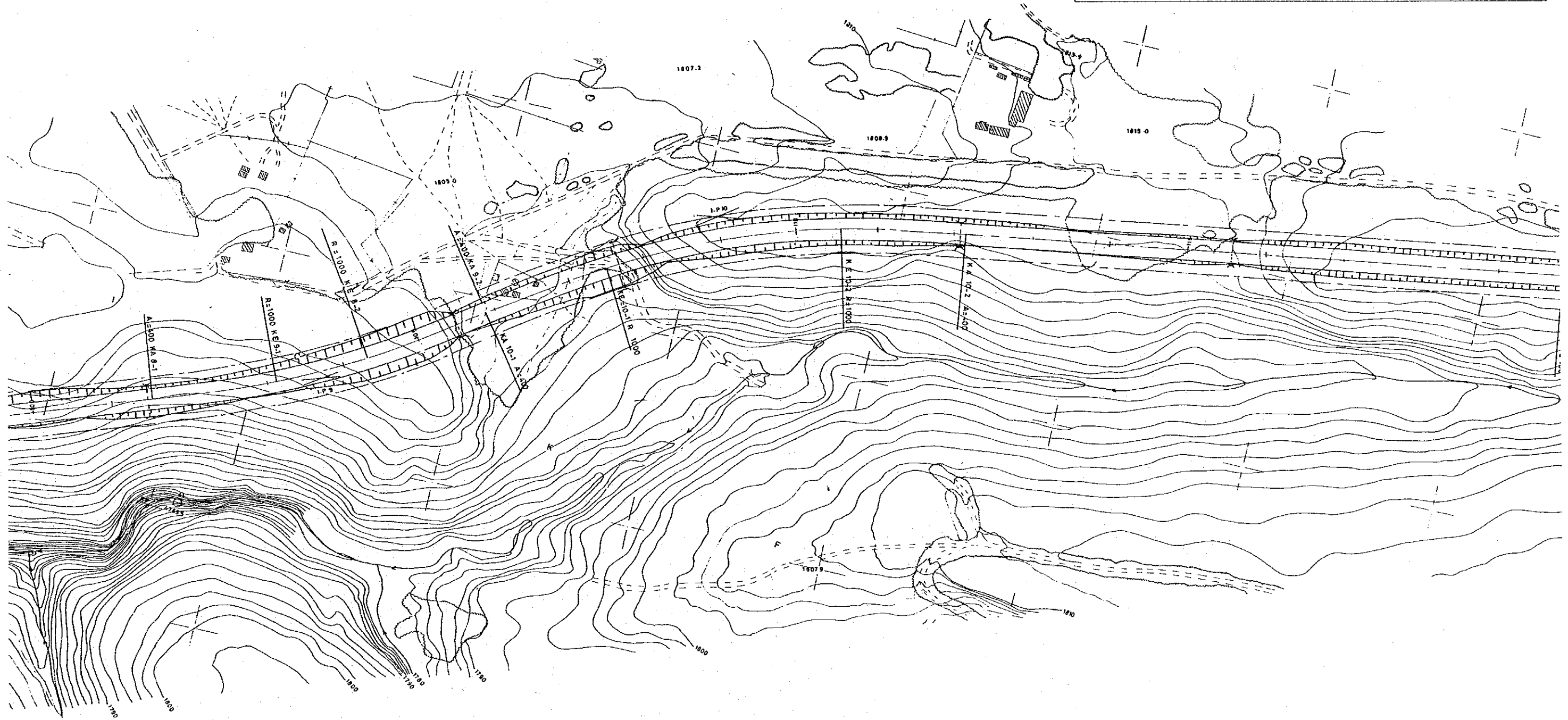


MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 86+00 ~ STA NO 101+00)
 SCALE : H=1:5000, V=1:1000 (SHEET 7 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY

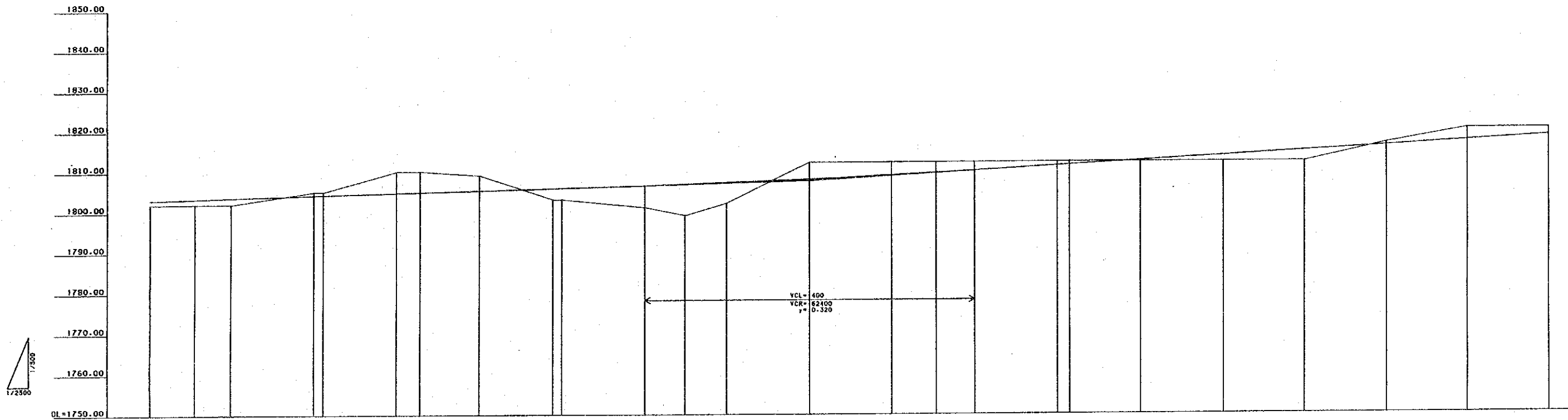


Gradient																			
Fill	5.982				2.100	2.786		0.073	0.727	0.382		1.691				1.100	1.399		
Cut		2.754	5.329	4.078	3.355	0.265		0.382	1.728		1.964		0.042	1.523	2.839				
Proposed height	1758.982	1760.246	1760.871	1762.922	1763.645	1765.735	1768.105	1776.418	1778.272	1780.073	1783.727	1787.382	1791.036	1794.691	1797.955	1800.448	1802.162	1803.100	1803.359
Ground height	1753.000	1763.000	1766.000	1767.000	1767.000	1766.000	1767.000	1777.000	1780.000	1780.000	1783.000	1787.000	1793.000	1793.000	1798.000	1802.000	1805.000	1802.000	1802.000
Accumulated distance	8400.000	8677.876	8700.000	8800.000	8827.876	8900.000	9000.000	9138.999	9250.600	9250.729	9300.000	9400.000	9500.000	9600.000	9700.000	9800.000	10000.000	10100.000	10151.434
Distance	82.324	77.876	22.324	100.000	27.876	72.324	100.000	198.999	99.270	30.729	99.270	100.000	100.000	100.000	100.000	100.000	100.000	100.000	54.434
Station	86+00	86+77.876	87+00	88+00	88+27.876	89+00	90+00	91+38.999	92+00	92+30.729	93+00	94+00	95+00	96+00	97+00	98+00	99+00	100+00	101+00
Curvature	<p>IP = 8 IA = 40-23-54A1 = 300.000 R = 600.000 CL = 57.2353 A = 300.000 L1 = 150.000 L2 = 873.033 C2 = 150.000</p>																		

MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 101+00 ~ STA NO 118+00)
SCALE : 1:5000 (SHEET 8 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY

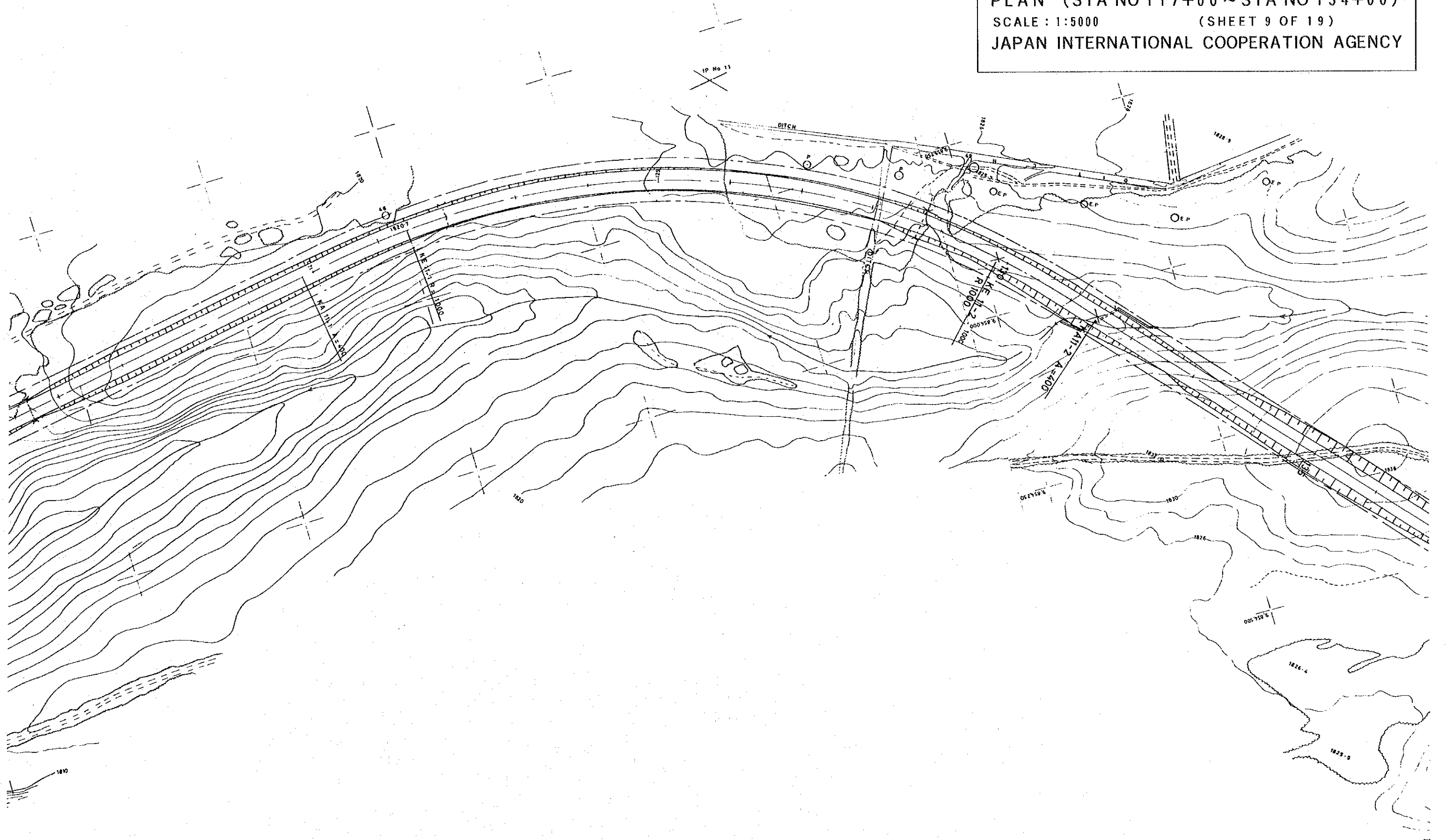


MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 101+00 ~ STA NO 118+00)
 SCALE: H=1:5000, V=1:1000 (SHEET 8 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY

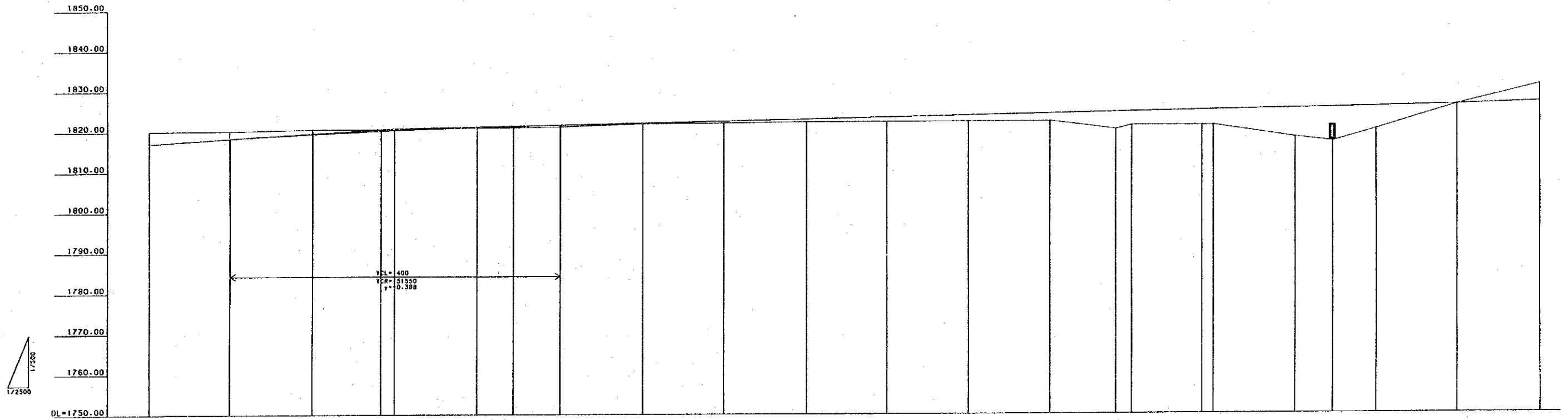


Gradient																										
Fill	1.100	1.390	1.650															0.284	1.453	2.645						
Cut				0.800	0.737																					
Proposed height	1803.100	1803.390	1803.650	1804.200	1804.263	1804.750	1804.809	1805.300	1805.789	1805.850	1806.400	1806.583	1807.030	1807.520	1808.771	1808.358	1809.882	1811.075	1811.247	1812.254	1813.455	1814.645	1815.836	1817.027	1818.218	
Ground height	1802.000	1802.000	1802.000	1805.000	1805.000	1810.000	1810.000	1809.000	1803.000	1803.000	1801.000	1799.000	1802.000	1812.000	1812.000	1812.000	1812.000	1812.000	1812.000	1812.000	1812.000	1812.000	1812.000	1812.000	1820.000	1820.000
Accumulated distance	0.000	34.434	68.868	103.302	137.736	172.170	206.604	241.038	275.472	309.906	344.340	378.774	413.208	447.642	482.076	516.510	550.944	585.378	619.812	654.246	688.680	723.114	757.548	791.982	826.416	
Distance	0.000	34.434	68.868	103.302	137.736	172.170	206.604	241.038	275.472	309.906	344.340	378.774	413.208	447.642	482.076	516.510	550.944	585.378	619.812	654.246	688.680	723.114	757.548	791.982	826.416	
Station	101+00	101+34.434	101+68.868	102+03.302	102+37.736	102+72.170	103+06.604	103+41.038	103+75.472	104+09.906	104+44.340	104+78.774	105+13.208	105+47.642	105+82.076	106+16.510	106+50.944	106+85.378	107+19.812	107+54.246	107+88.680	108+23.114	108+57.548	108+91.982	109+26.416	
Curvature	<p>L = 903.705</p> <p>IP = 100.000, IA = 15.54-02, A1 = 400.000, L1 = 160.000, CL = 737.551, L2 = 160.000</p> <p>IP = 100.000, IA = 26-10-47, A1 = 400.000, L1 = 160.000, CL = 625.831, L2 = 160.000, L = 788.901</p>																									

MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 117+00 ~ STA NO 134+00)
SCALE : 1:5000 (SHEET 9 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY



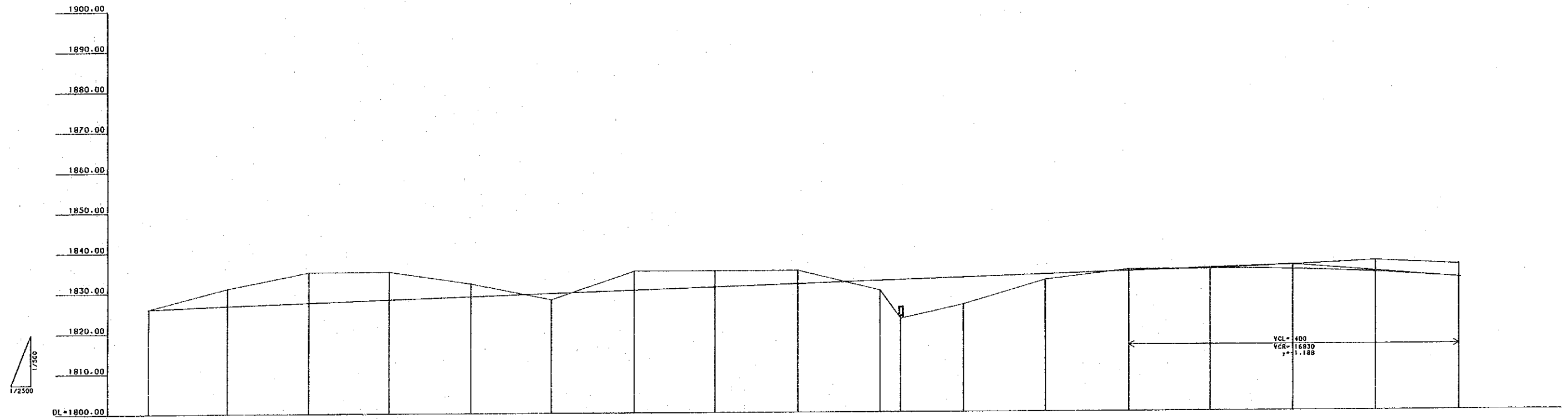
MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 117+00 ~ STA NO 134+00)
 SCALE: H=1:5000, V=1:1000 (SHEET 9 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY



Gradient																							
Fill						0.118	0.365	0.431	0.146	0.462	0.677	1.092	1.508	1.923	4.239	3.338	3.694	3.754	7.169	9.359	5.265	0.000	
Cut	2.973	1.782	1.088	0.323	0.388																		4.286
Proposed height	1817.027	1816.218	1816.312	1820.077	1820.212	1820.919	1821.165	1821.431	1821.646	1822.262	1822.677	1823.092	1823.508	1823.923	1824.239	1824.338	1824.654	1824.754	1825.169	1825.359	1825.585	1825.000	1826.714
Ground height	1820.000	1820.000	1820.400	1820.400	1820.600	1820.800	1820.800	1821.000	1821.700	1821.800	1822.000	1822.000	1822.000	1822.000	1823.000	1821.000	1821.000	1821.000	1818.000	1817.000	1820.000	1826.000	1831.000
Accumulated distance	485.333	1170.000	1180.000	1190.000	1198.507	1210.000	12143.507	12200.000	12300.000	12400.000	12500.000	12600.000	12700.000	12800.000	12880.600	12900.000	12985.680	13000.000	13100.000	13145.880	13200.000	13300.000	13400.000
Distance	485.333	100.000	100.000	83.507	16.492	100.000	43.507	56.492	100.000	100.000	100.000	100.000	100.000	100.000	80.000	19.200	85.689	14.310	100.000	45.689	54.310	100.000	100.000
Station	NO-117	NO-118	NO-119	KA11-1	NO-120	NO-121	KA11-1	NO-122	NO-123	NO-124	NO-125	NO-126	NO-127	NO-128	NO-129	NO-130	KA11-2	NO-131	KA11-2	NO-132	NO-133	NO-134	
Curvature																							

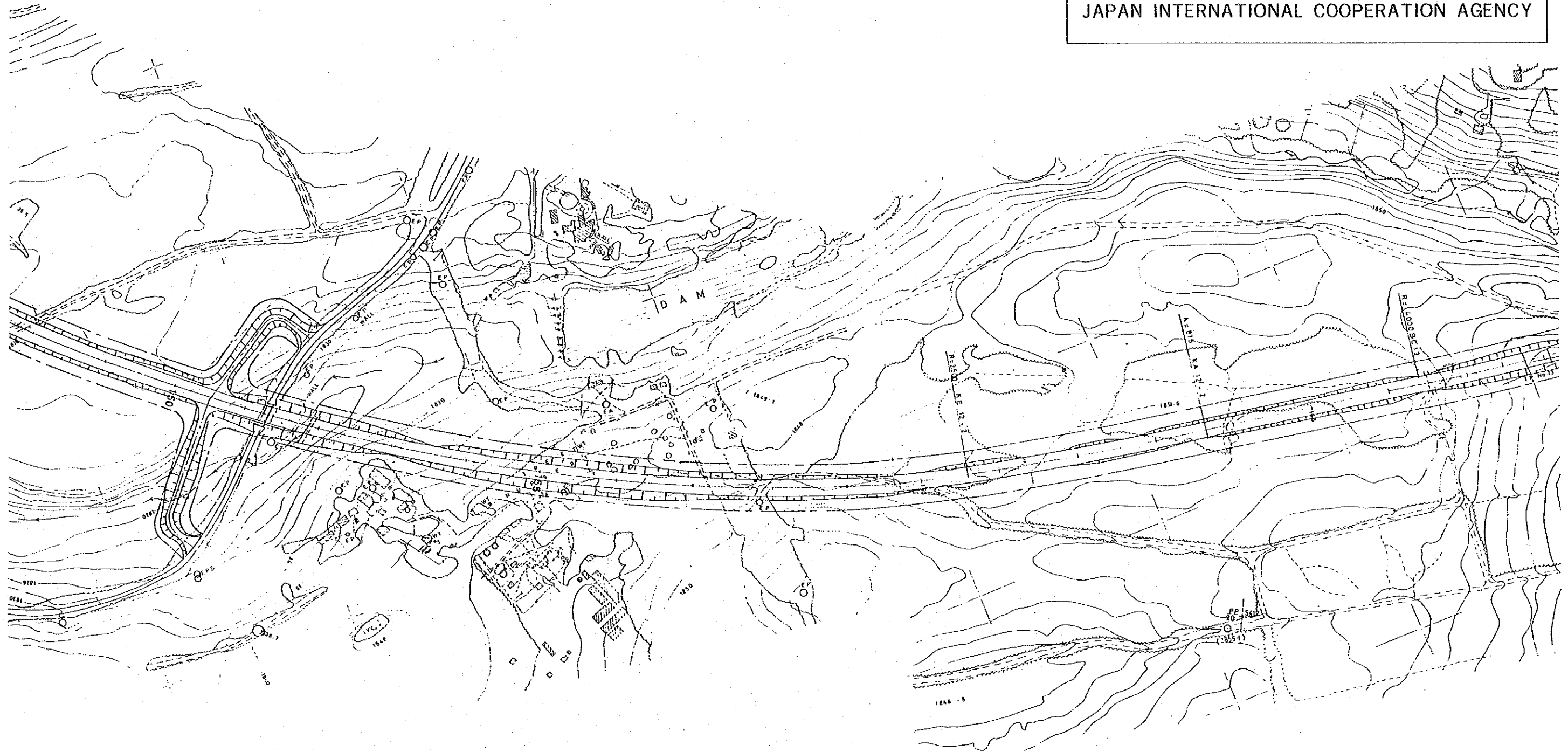
$P=11$ $A=57-25-14$ $A1=400.000$
 $R=1000.000$ $CL=1162.181$ $A2=400.000$
 $L1=180.000$ $L=1492.181$ $L2=180.000$

MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 133+00 ~ STA NO 149+00)
 SCALE: H=1:5000, V=1:1000 (SHEET 10 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY

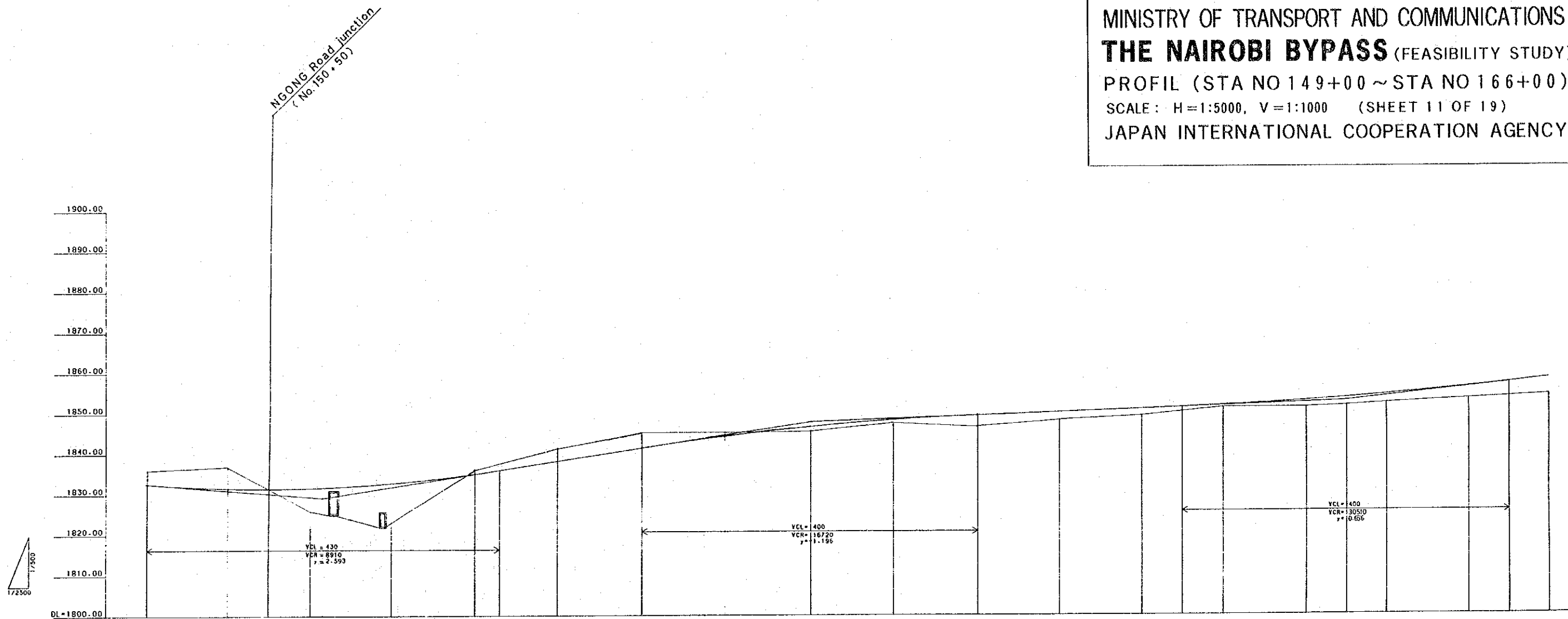


Gradient																			
Fill	0.000				1.57					2.429	9.607	6.643	1.337						
Cut		4.286	7.571	6.857	3.143		4.714	4.000	3.286			0.429	0.011	1.189	1.199	2.560	3.215		
Proposed height	1826.000	1826.714	1827.429	1828.143	1828.857	1829.571	1830.286	1831.000	1831.714	1832.429	1833.143	1833.857	1834.571	1835.286	1836.000	1836.714	1837.429	1838.143	
Ground height	1826.000	1831.000	1835.000	1835.000	1833.000	1828.000	1825.000	1825.000	1825.000	1830.000	1825.000	1822.500	1824.500	1835.000	1835.000	1835.000	1837.000	1836.000	
Accumulated distance	1330.000	1340.000	1350.000	1360.000	1370.000	1380.000	1390.000	1400.000	1410.000	1420.000	1425.000	1430.000	1450.000	1460.000	1470.000	1471.250	1480.000	1490.000	
Distance	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	25.000	75.000	95.000	120.000	100.000	100.000	98.750	100.000		
Station	NO.133	NO.134	NO.135	NO.136	NO.137	NO.138	NO.139	NO.140	NO.141	NO.142	+25.000	NO.143	NO.144	NO.145	NO.146	NO.147	NO.148	NO.149	
Curvature	L = 1204.311m																		

MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 149+00 ~ STA NO 166+00)
SCALE : 1:5000 (SHEET 11 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY



MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 149+00 ~ STA NO 166+00)
 SCALE: H=1:5000, V=1:1000 (SHEET 11 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY

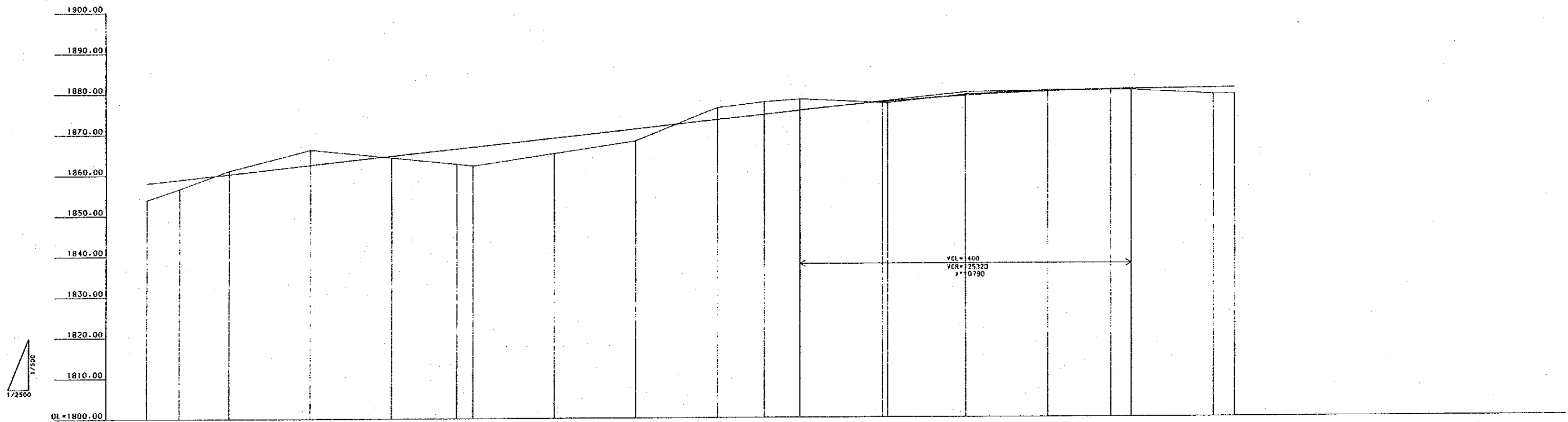


Gradient	I = -1.663%		I = 3.162%		I = 0.769%		I = 2.08%																
Fill	5.5%	9.73%	1.40%	1.07%	3.13%	1.90%	1.87%	1.67%	0.45%	1.56%	2.0%	2.09%	2.76%	9.90%									
Cut	3.37%	5.47%	0.99%	2.89%	3.73%	0.84%																	
Proposed height	1832.675	1831.172	1831.594	1832.726	1835.001	1838.113	1841.215	1844.135	1846.404	1848.070	1849.138	1849.500	1850.379	1850.877	1850.062	1851.430	1852.382	1853.510	1854.009	1855.761	1856.760	1857.800	
Ground height	1836.000	1837.000	1826.000	1823.000	1836.000	1841.000	1845.000	1845.000	1845.000	1847.000	1846.000	1848.000	1848.500	1848.000	1850.000	1851.000	1851.000	1851.900	1852.000	1853.000	1854.760	1855.900	1857.800
Accumulated distance	1490.000	1500.000	15100.000	15200.000	15300.000	15400.000	15500.000	15600.000	15700.000	15800.000	15900.000	16000.000	16081.265	16100.000	16150.000	16200.000	16300.000	16387.535	16400.000	16500.000	16550.000	16600.000	16600.000
Distance	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	61.285	28.715	50.000	100.000	100.000	87.535	37.565	100.000	50.000	100.000	100.000
Station	149	150	151	152	153	154	155	156	157	158	159	160	161-2	161	162	163	164-2	164	165	166	166	166	166
Curvature	IP= 12 IA= 38-11-19 A1= 875.000 R= 3500.000 CL= 1363.035 L2= 875.000 LI= 306.250 L= 1972.535 L2= 306.250 L= 372.632m																						

MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 166+00 ~ STA NO 179+00)
SCALE : 1:5000 (SHEET 12 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY

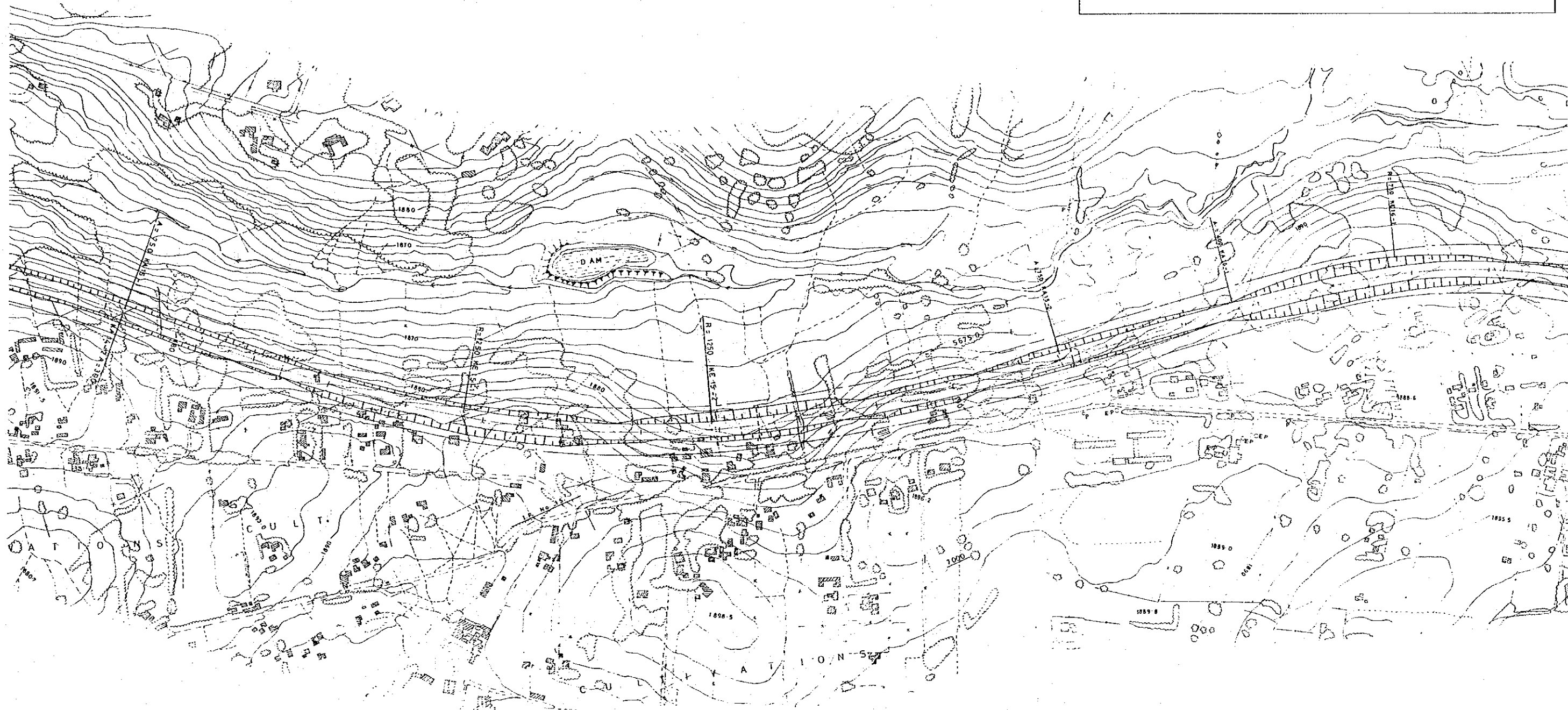


MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 166+00 ~ STA NO 179+00)
 SCALE: H=1:5000, V=1:1000 (SHEET 12 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY

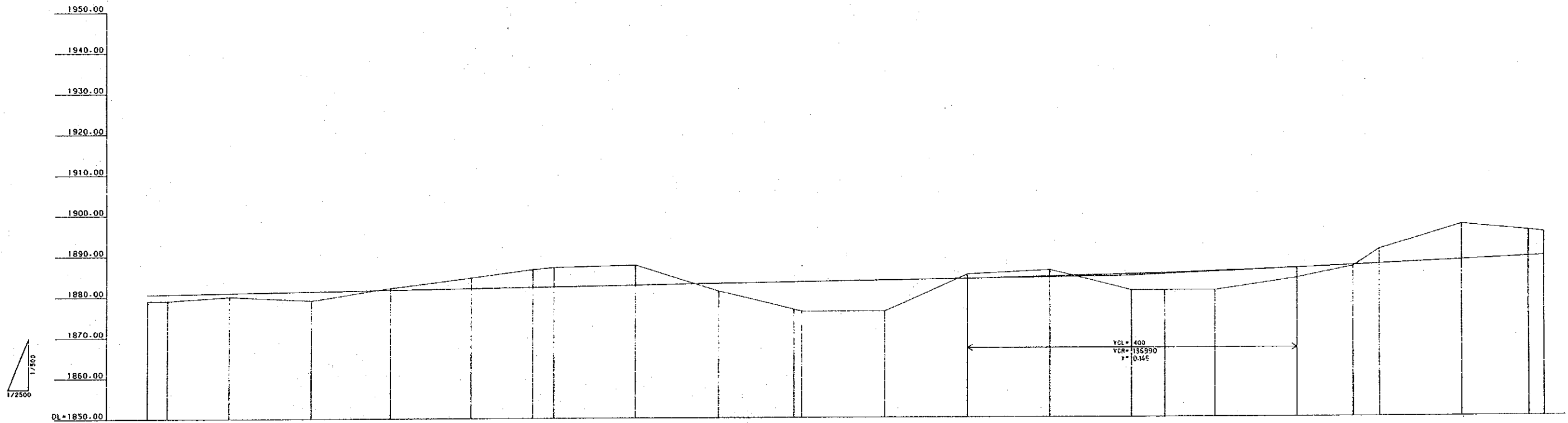


Gradient															
Fill	3.900	2.035		0.040	3.300	4.110	3.200	2.250	0.452		1.100	1.224			
Cut			1.170	4.040					3.640	3.874	3.560	1.190	1.098	0.536	0.400
Proposed height	1857.800	1858.635	1859.850	1861.900	1864.040	1865.705	1866.120	1866.200	1876.380	1877.516	1878.440	1879.510	1879.702	1879.461	1879.500
Ground height	1853.900	1856.600	1861.000	1865.000	1864.000	1862.400	1862.000	1865.000	1876.000	1877.400	1878.000	1879.000	1880.000	1880.000	1880.000
Accumulated distance	1660.000	1660.167	1670.000	1680.000	1690.000	1698.043	1700.000	1710.000	1720.000	1730.000	1735.074	1740.000	1750.000	1757.838	1760.000
Distance	100.000	40.167	39.832	100.000	100.000	80.043	19.956	100.000	100.000	100.000	56.074	43.925	100.000	74.838	25.161
Station	NO-166	SC13	NO-167	NO-168	NO-169	CC13	NO-170	NO-171	NO-172	NO-173	RA14-1	NO-174	RE14-1	NO-176	NO-177
Curvature	L=272.632			IP= 13 IA= 4-32-08 R= 4000.000 CC= 339.872 TC= 170.041 SL= 3.613			L= 376.031			IP= 14 IA= 30-59-20A1= 300.000 R= 600.000 CL= 368.763 A2= 300.000 L1= 150.000 L= 868.763 L2= 150.000					

MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 179+00 ~ STA NO 196+00)
SCALE : 1:5000 (SHEET 13 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY

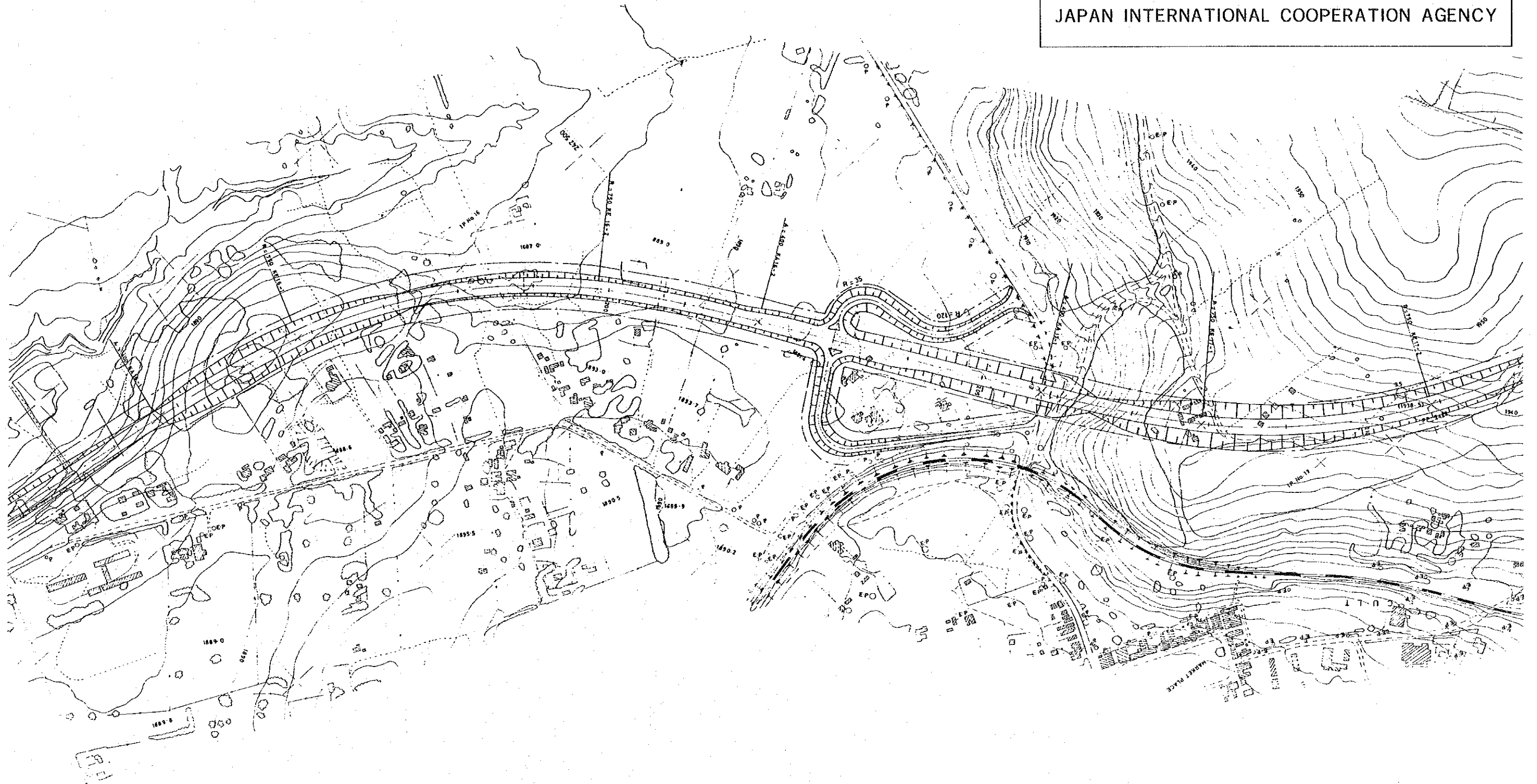


MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 179+00 ~ STA NO 196+00)
 SCALE: H=1:5000, V=1:1000 (SHEET 13 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY

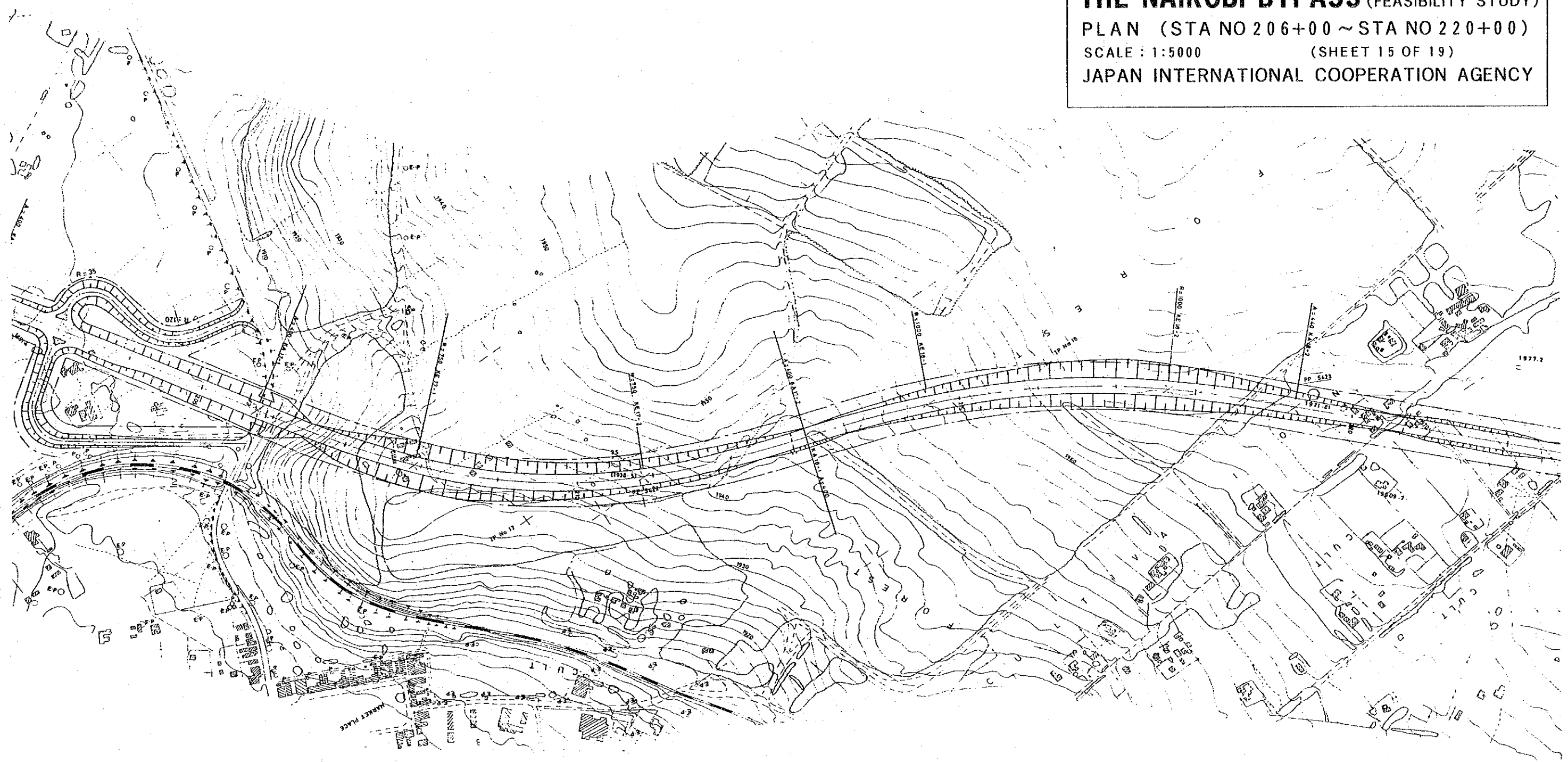


Gradient																								
Fill	1.100	1.224	0.600	2.100					2.600	7.550	8.100	8.600		5.225	5.514	5.923	3.682	1.476						
Cut				0.400	2.400	4.026	4.402	4.400					1.000	1.400			2.324	7.732	5.454	2.340				
Proposed height	1880.100	1880.274	1880.600	1881.100	1881.600	1882.474	1882.600	1882.700	1883.100	1883.600	1884.053	1884.400	1884.600	1885.100	1885.600	1886.249	1886.884	1887.684	1888.274	1888.674	1889.064			
Ground height	1879.000	1879.000	1880.000	1879.000	1885.000	1884.500	1885.500	1887.000	1887.500	1888.000	1876.500	1876.000	1876.000	1885.000	1885.000	1881.000	1881.000	1884.000	1886.000	1889.000	1895.000	1895.000		
Accumulated distance	1790.000	1792.4.938	1800.000	1810.000	1820.000	1830.000	1837.4.828	1840.000	1850.000	1860.000	1870.000	1879.573	1887.673	1890.000	1900.000	1910.000	1920.000	1930.000	1938.648	1946.000	1951.781	1956.000		
Distance	100.000	24.838	75.161	100.000	100.000	100.000	74.838	25.161	100.000	100.000	100.000	90.573	8.426	100.000	100.000	100.000	100.000	100.000	68.448	31.551	81.781	18.218		
Station	NO.179	KA15-1	NO.180	NO.181	NO.182	NO.183	KE15-1	NO.184	NO.185	NO.186	KE15-2	NO.187	NO.188	NO.189	NO.190	NO.191	KA15-2	NO.192	NO.193	KA15-1	NO.194	NO.195	KE15-1	NO.196
Curvature																								

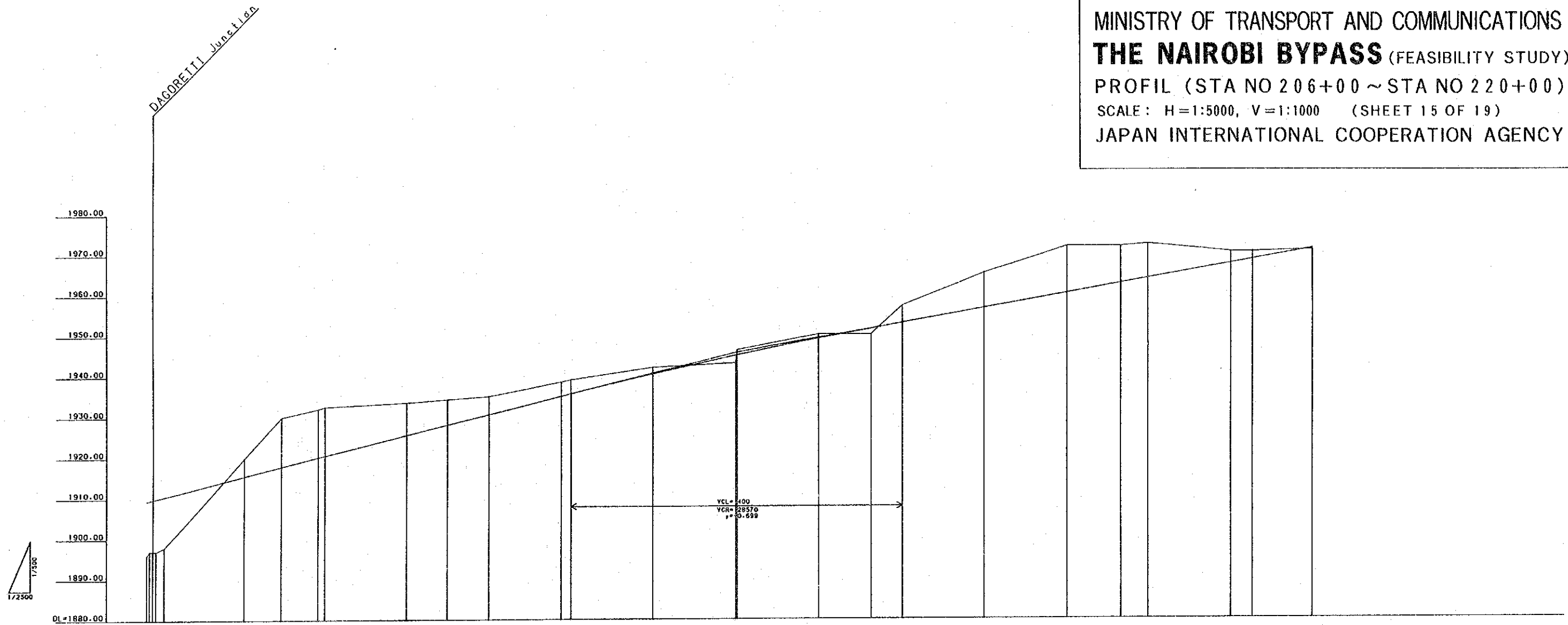
MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 194+00 ~ STA NO 208+00)
SCALE : 1:5000 (SHEET 14 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY



MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 206+00 ~ STA NO 220+00)
SCALE : 1:5000 (SHEET 15 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY

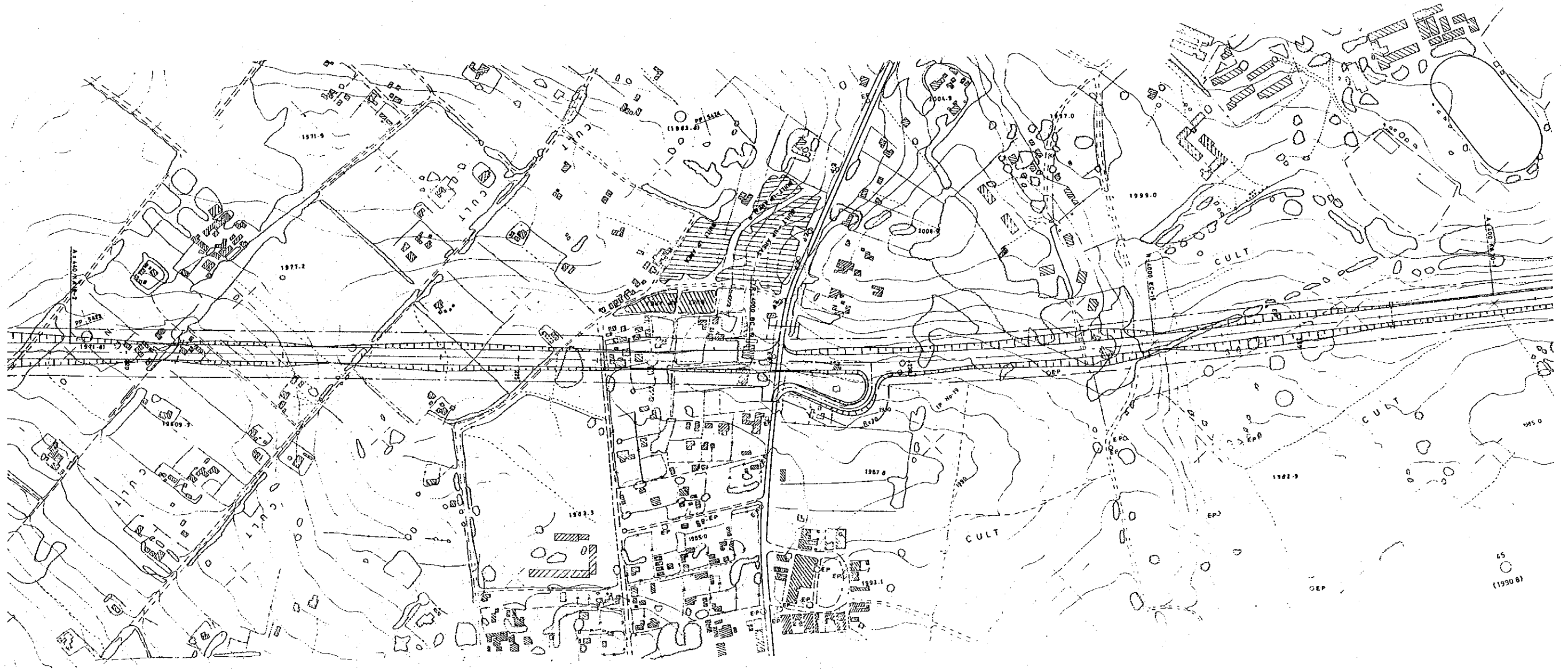


MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 206+00 ~ STA NO 220+00)
 SCALE: H=1:5000, V=1:1000 (SHEET 15 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY

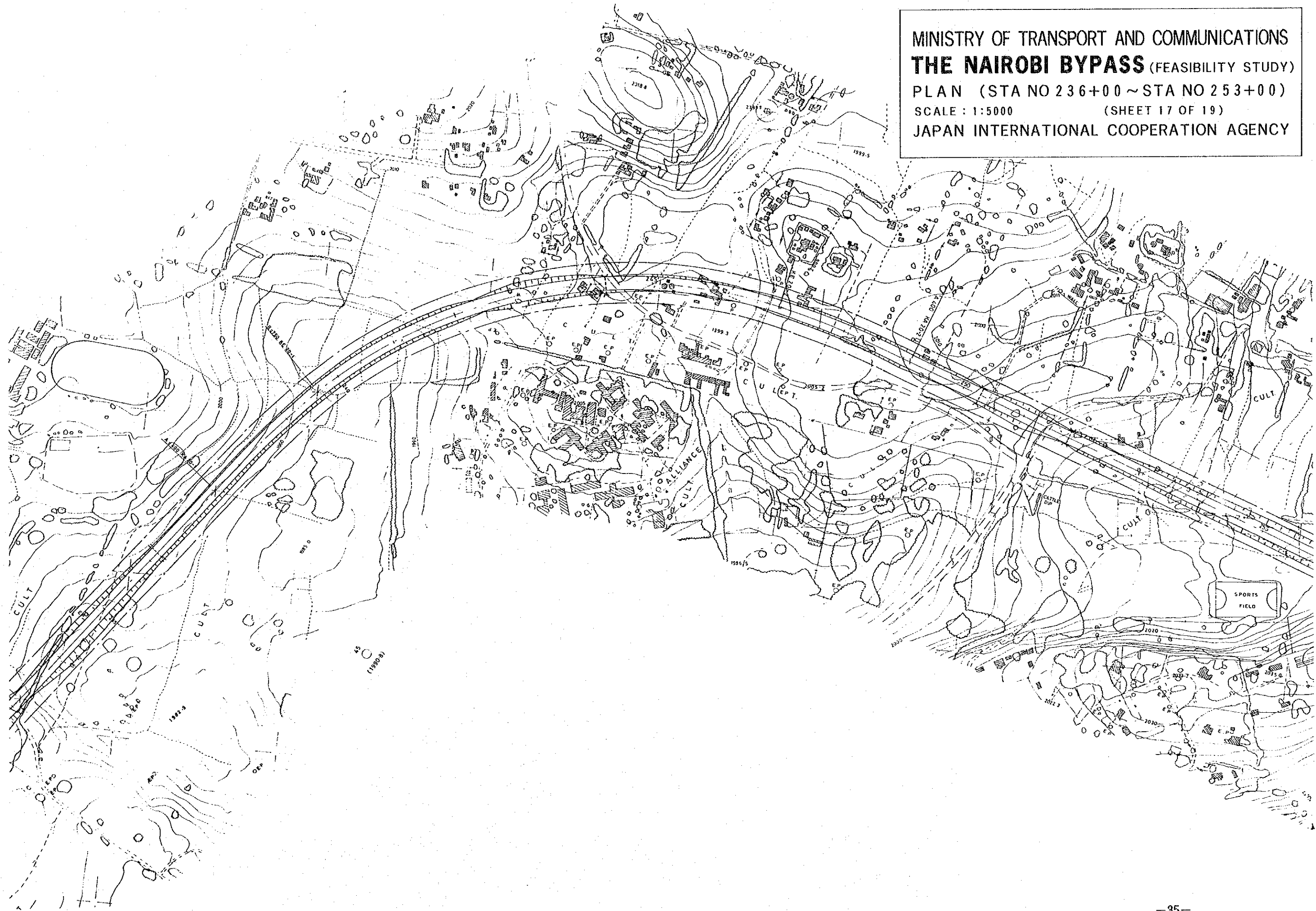


Gradient																						
Fill	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	0.300							
Cut		4.400	12.100	11.813	11.800	7.900	6.150	4.400	3.483	3.400	1.574	1.229	0.975	4.200	8.600	11.300	9.100	8.400	2.800	1.846		
Proposed height	1880.000	1815.600	1917.800	1920.187	1920.600	1925.600	1928.100	1930.600	1935.015	1935.600	1940.428	1942.971	1948.025	1951.393	1952.800	1956.400	1960.000	1962.304	1963.600	1967.200	1968.154	1970.800
Ground height	1880.000	1920.000	1930.000	1932.000	1932.500	1933.300	1934.250	1935.000	1938.500	1939.600	1942.000	1943.988	1950.000	1950.000	1957.000	1955.000	1971.500	1971.500	1972.000	1970.000	1970.000	1970.500
Accumulated distance	0.000	20700.000	20746.000	20781.744	20800.000	20900.000	20950.000	21000.000	21088.308	21100.000	21200.000	21387.698	21600.000	21661.638	21600.000	21700.000	21766.488	21766.488	21800.000	21800.000	21826.488	22000.000
Distance	78.410	100.000	46.000	45.744	100.000	30.000	50.000	88.306	11.683	100.000	109.898	88.340	61.639	38.380	100.000	66.488	33.511	100.000	26.488	73.511		
Station	206+000	206+207	206+400	206+451.7	206+500	206+500	206+550	206+638.3	206+649.983	206+749.983	206+849.983	206+938.323	207+026.663	207+115.003	207+153.383	207+219.871	207+253.360	207+286.871	207+310.382	207+336.871	207+400.382	207+473.871
Curvature	<p> $I_1 = 17$ $I_2 = 18$ $I_3 = 28-38-02$ $A_1 = 400.000$ $L = 865.874$ $R = 250.000$ $R = 1000.000$ $R = 624.849$ $A_2 = 400.000$ $L_1 = 213.333$ $L_2 = 1149.865$ $L_3 = 213.333$ $L_4 = 160.000$ $L_5 = 844.849$ $L_6 = 160.000$ </p>																					

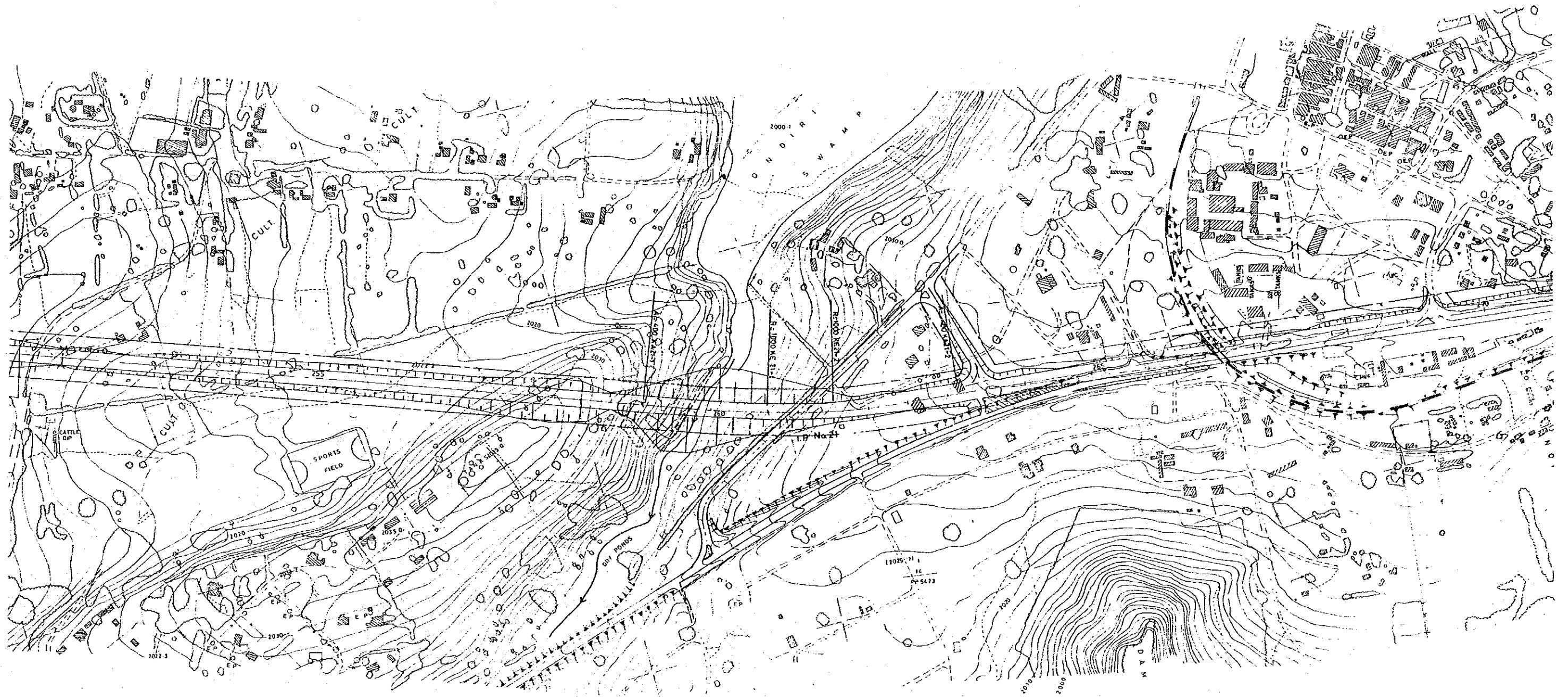
MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 220+00 ~ STA NO 236+00)
SCALE : 1:5000 (SHEET 16 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY



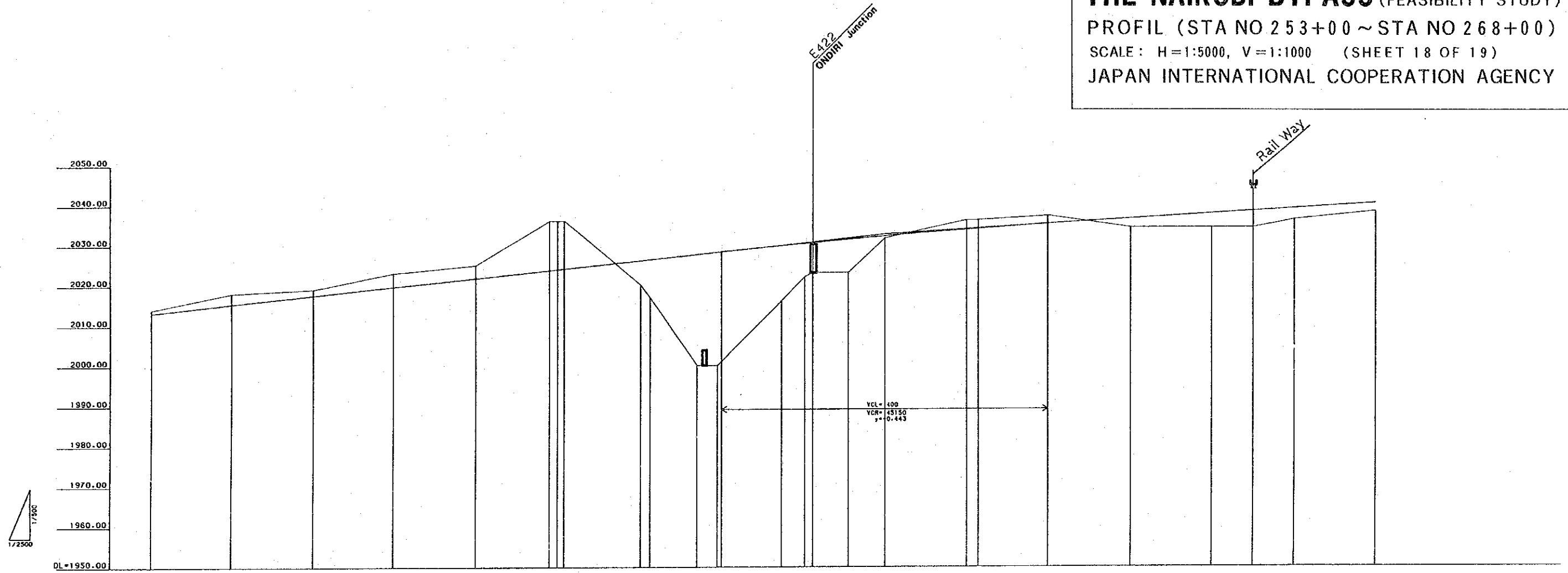
MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 236+00 ~ STA NO 253+00)
SCALE : 1:5000 (SHEET 17 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY



MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 253+00 ~ STA NO 268+00)
SCALE : 1:5000 (SHEET 18 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY

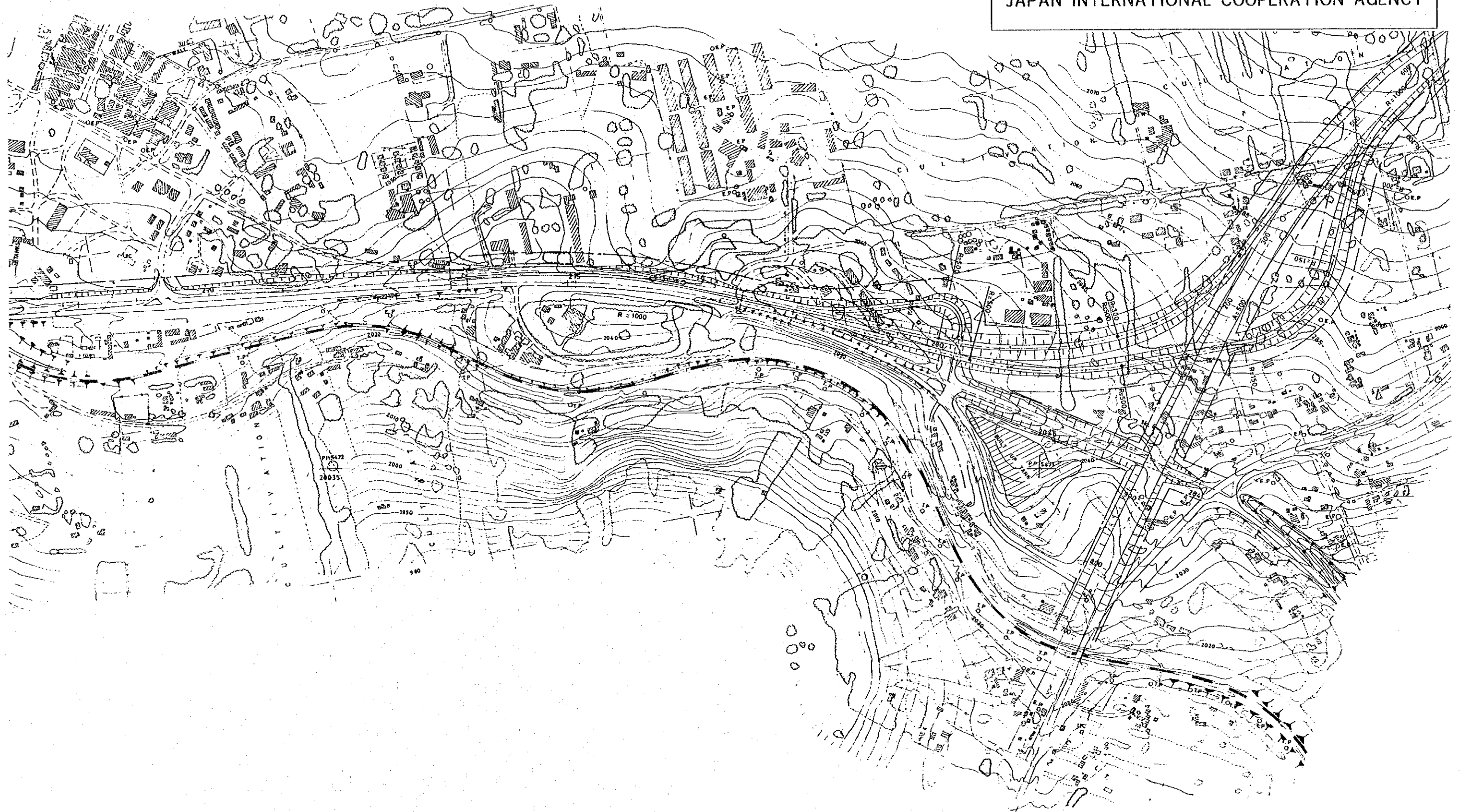


MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 253+00 ~ STA NO 268+00)
 SCALE: H=1:5000, V=1:1000 (SHEET 18 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY



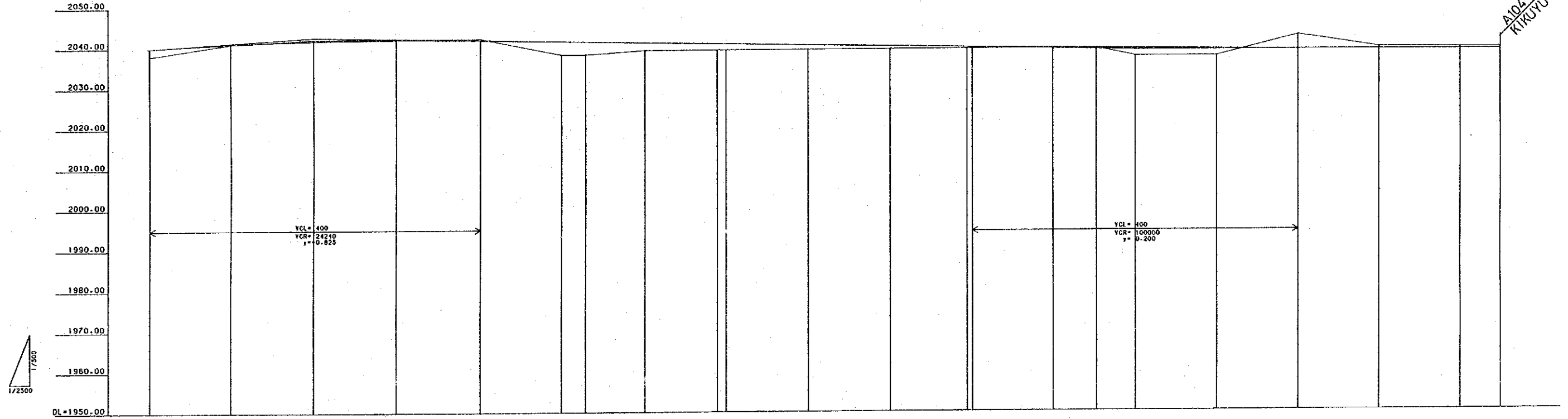
Gradient																										
Fill								6.091	9.541	27.566	59.129	13.703	8.253	7.443	8.254	0.557	2032.900	0.557	2.250	3.500	4.138	2.750	2.000			
Cut	0.727	2.591	1.453	3.318	3.182	12.239	12.043	11.875											2.361	2.157			2.000			
Proposed height	2013.273	2015.409	2017.545	2019.682	2021.818	2023.741	2023.953	2024.125	2025.081	2026.341	2027.586	2028.703	2030.253	2030.413	2031.254	2032.087	2032.900	2032.087	2033.639	2033.843	2035.000	2036.250	2037.500	2038.138	2038.750	2040.000
Ground height	2011.000	2018.000	2019.000	2023.000	2025.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000	2036.000
Accumulated distance	200.000	254.000	255.000	256.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000	257.000
Distance	200.000	100.000	100.000	100.000	100.000	80.000	10.000	9.000	82.000	11.728	38.271	25.000	71.730	28.270	10.000	43.890	46.020	100.000	13.980	86.020	100.000	100.000	51.000	49.000	100.000	
Station	NO.253	NO.254	NO.255	NO.256	NO.257	NO.258	NO.259	NO.260	NO.261	NO.262	NO.263	NO.264	NO.265	NO.266	NO.267	NO.268		NO.269	NO.270	NO.271	NO.272	NO.273	NO.274	NO.275	NO.276	
Curvature																										

MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
PLAN (STA NO 268+00 ~ STA NO 284+50)
SCALE : 1:5000 (SHEET 19 OF 19)
JAPAN INTERNATIONAL COOPERATION AGENCY



MINISTRY OF TRANSPORT AND COMMUNICATIONS
THE NAIROBI BYPASS (FEASIBILITY STUDY)
 PROFIL (STA NO 2 6 8+0 0 ~ STA NO 2 8 4+5 0)
 SCALE : H=1:5000, V=1:1000 (SHEET 19 OF 19)
 JAPAN INTERNATIONAL COOPERATION AGENCY

MOA NAIWASH Road
 KIKUYU Junction

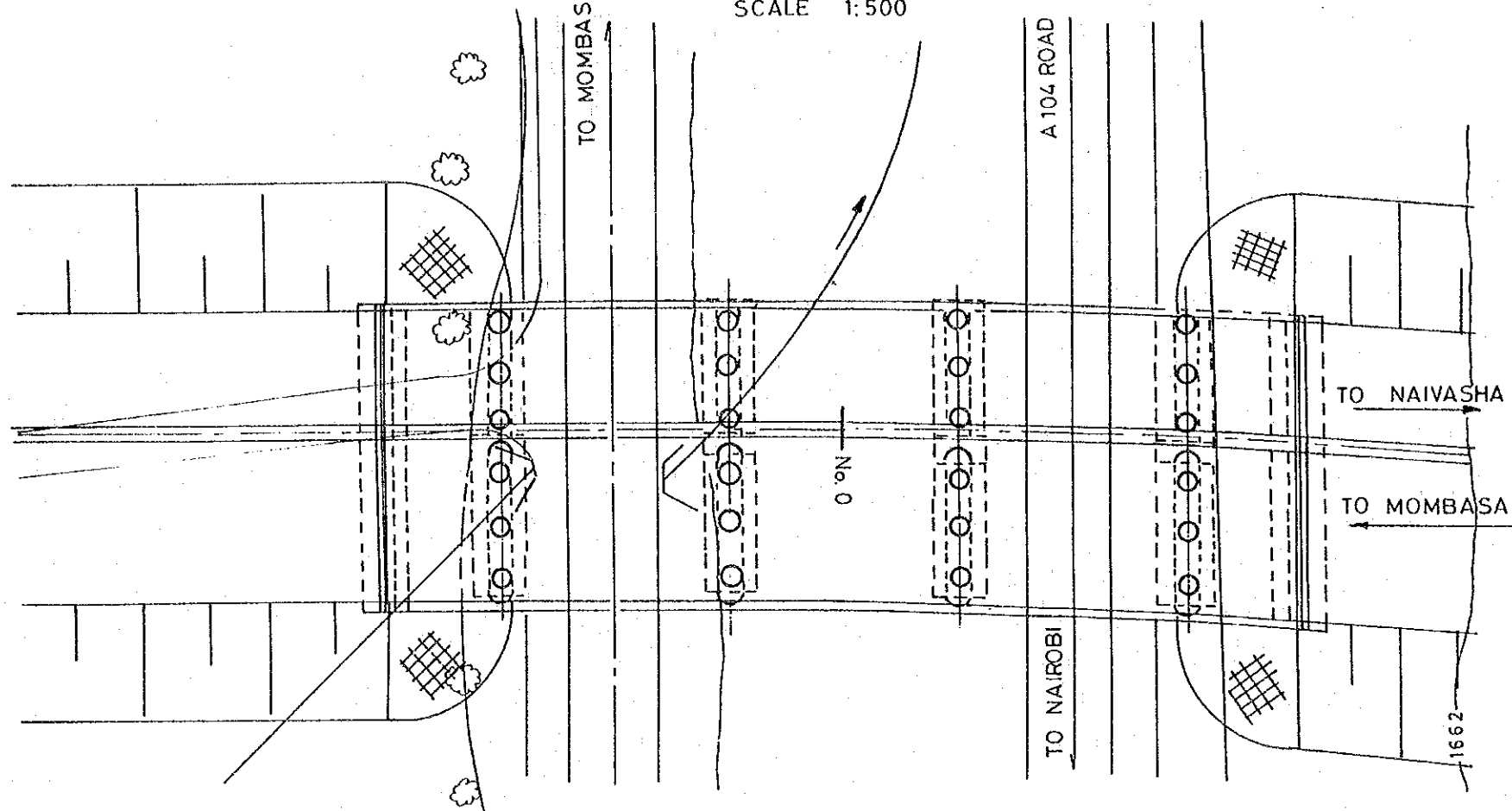


Gradient	I = 1.250%		I = -0.400%		LEVEL	
Fill	2.000	0.044	3.300	3.192	1.900	1.550
Cut						
Proposed height	2040.000	2041.044	2041.300	2041.163	2040.900	2038.550
Ground height	2038.000	2041.000	2038.000	2038.600	2038.000	2037.000
Accumulated distance	26800.000	26900.000	27000.000	27100.000	27200.000	27300.000
Distance	100.000	100.000	100.000	100.000	100.000	100.000
Station	NO. 268	NO. 269	NO. 270	NO. 271	NO. 272	NO. 273
Curvature	L = 1015.344		L = 1000.000		L = 496.535	

BRIDGE No.1 (MOMBASA ROAD J)

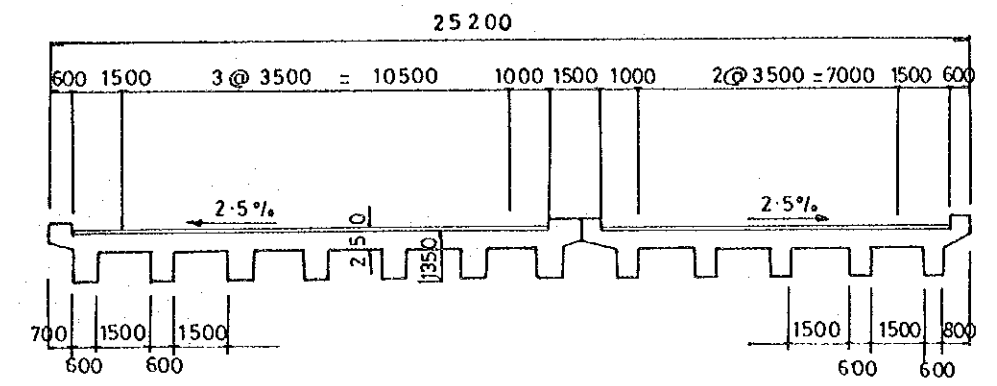
KEY PLAN

SCALE 1:500



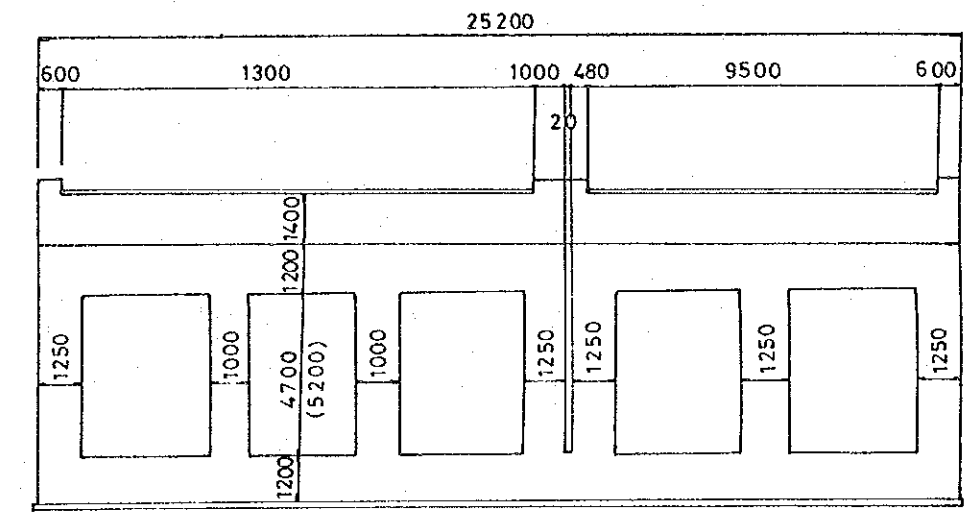
CROSS SECTION

SCALE 1:200



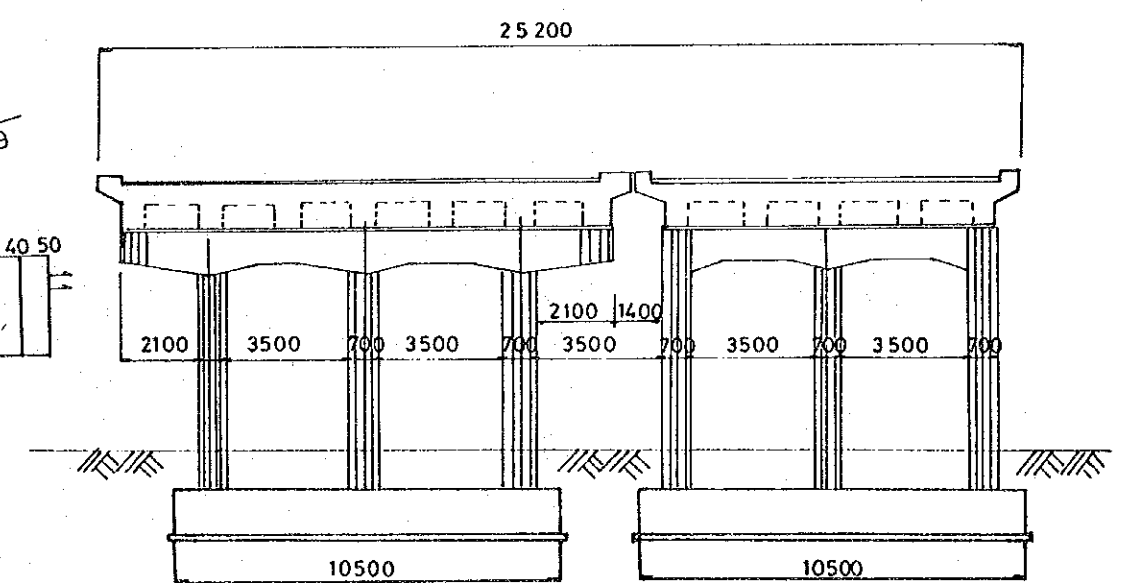
ABUTMENT

SCALE 1:200



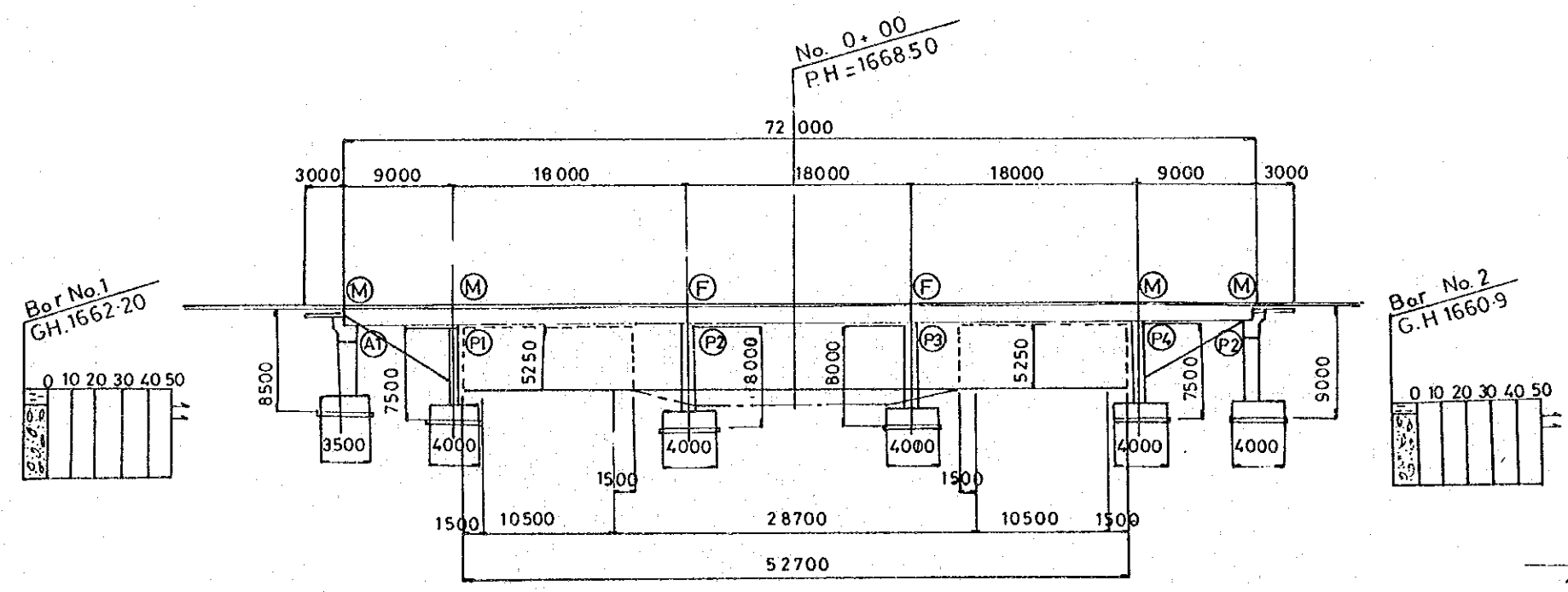
PIER

SCALE 1:200



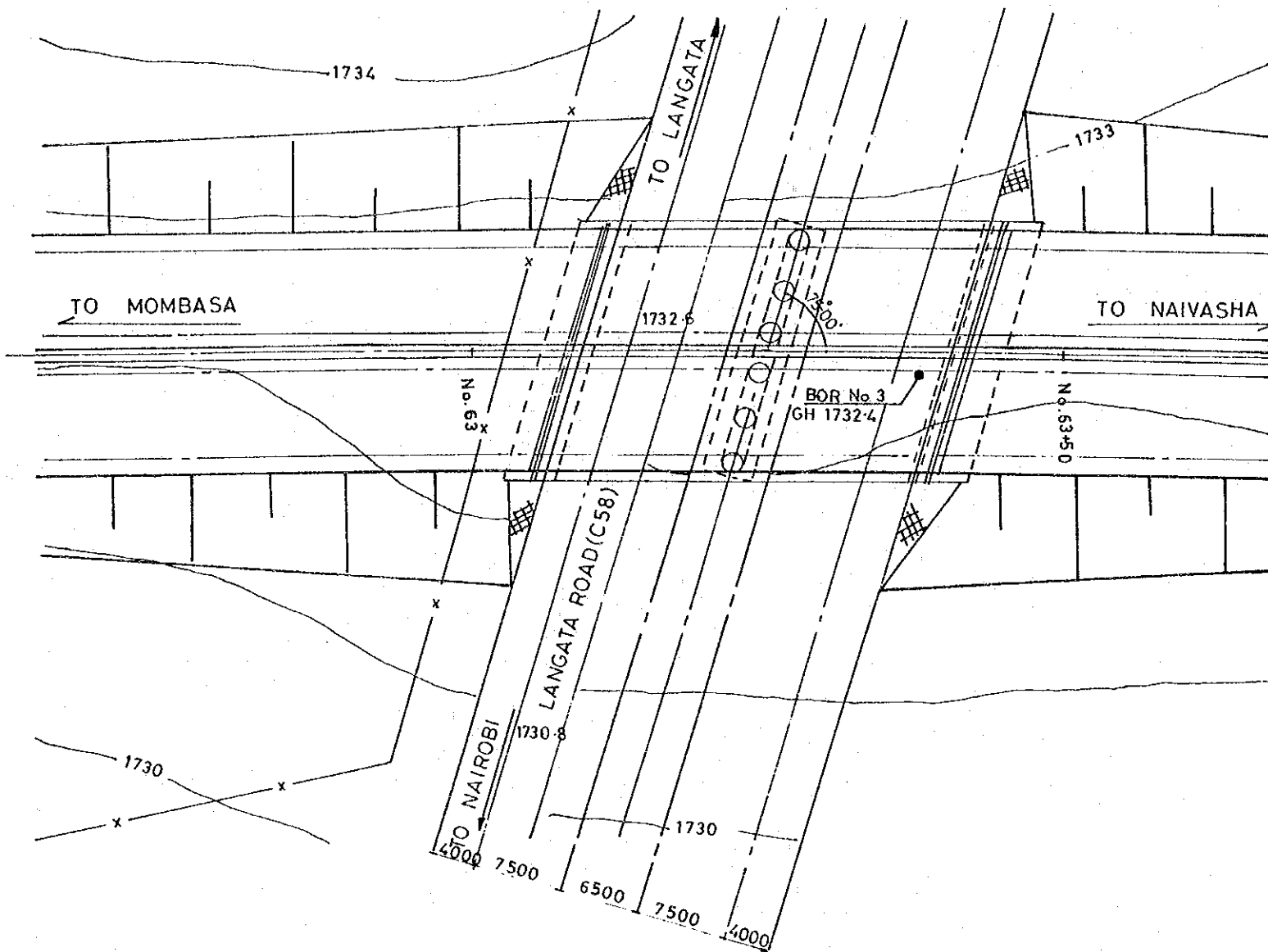
PROFILE

SCALE 1:500

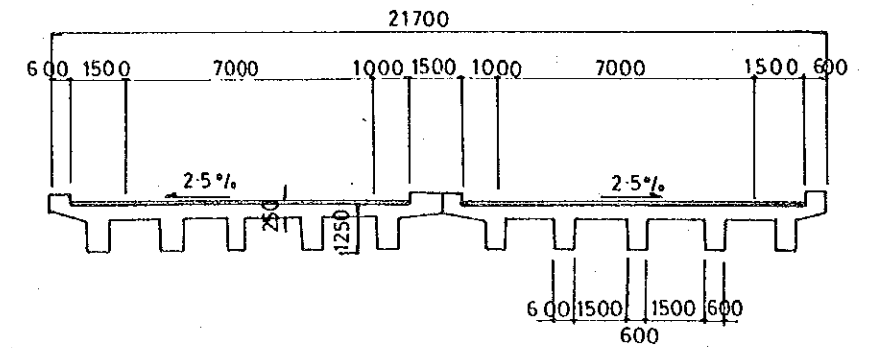


BRIDGE No.2 (UHURU MONUMENT J.)

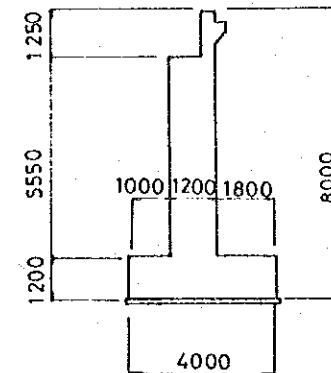
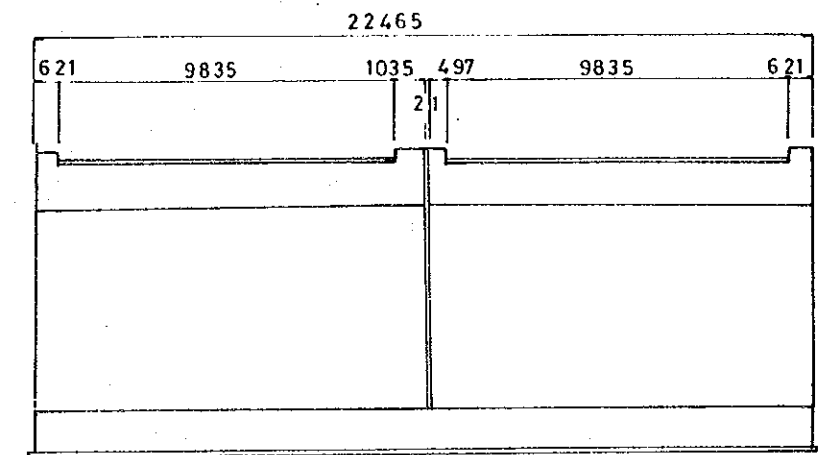
KEY PLAN SCALE 1:500



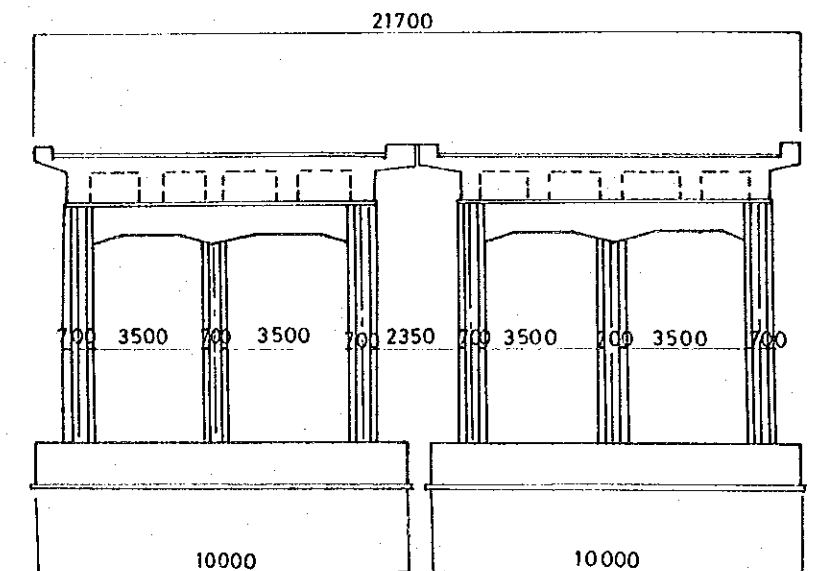
CROSS SECTION SCALE 1:200



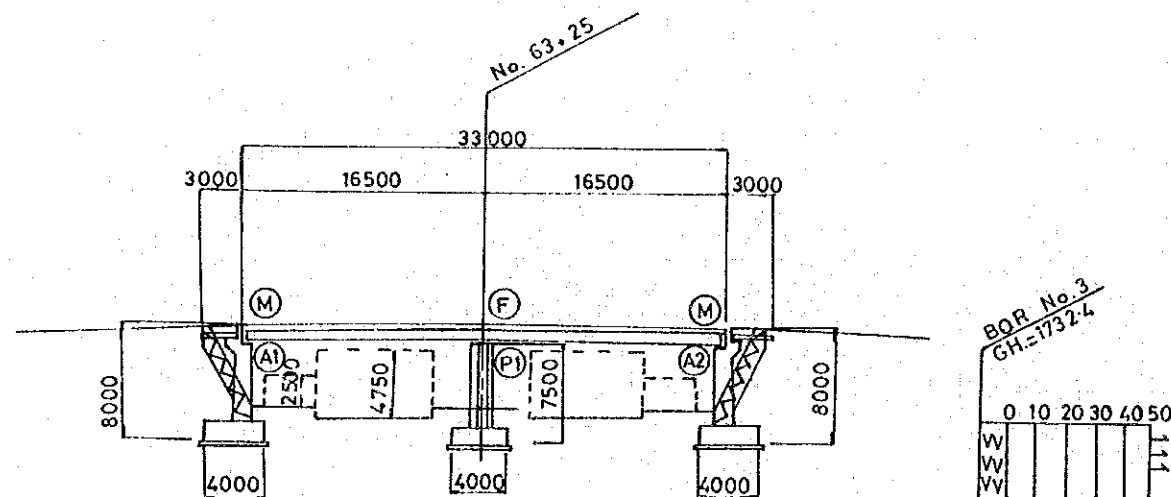
ABUTMENT SCALE 1:200



PIER SCALE 1:200

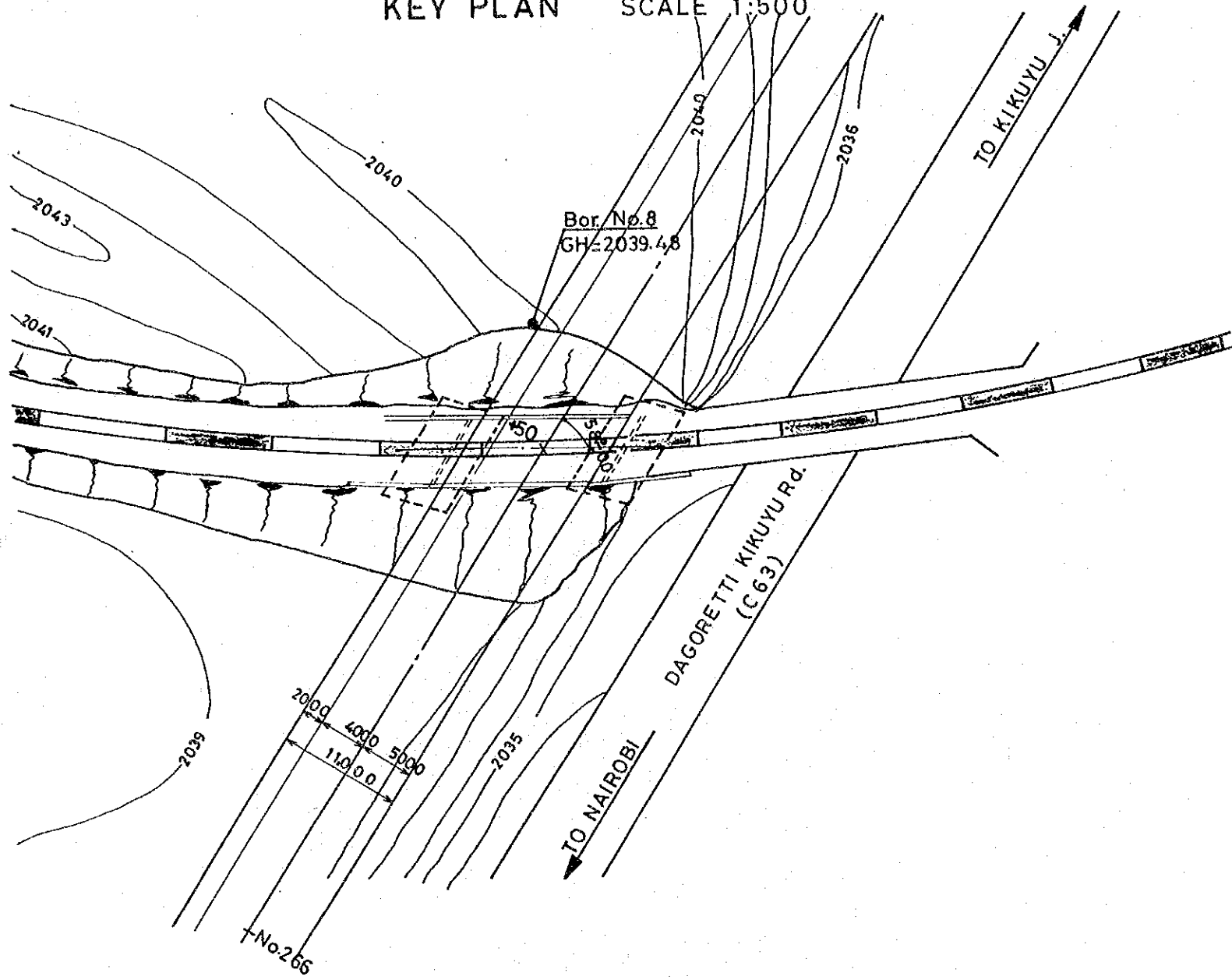


PROFILE SCALE 1:500

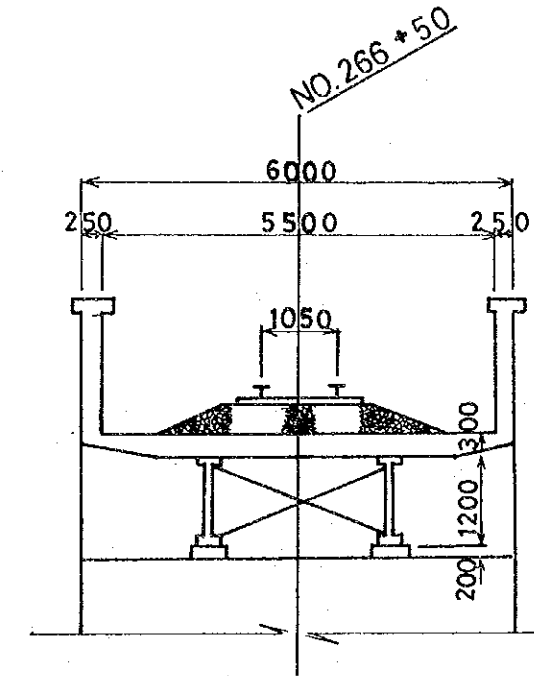


BRIDGE No. 3 (CROSSING OF RAILWAY)

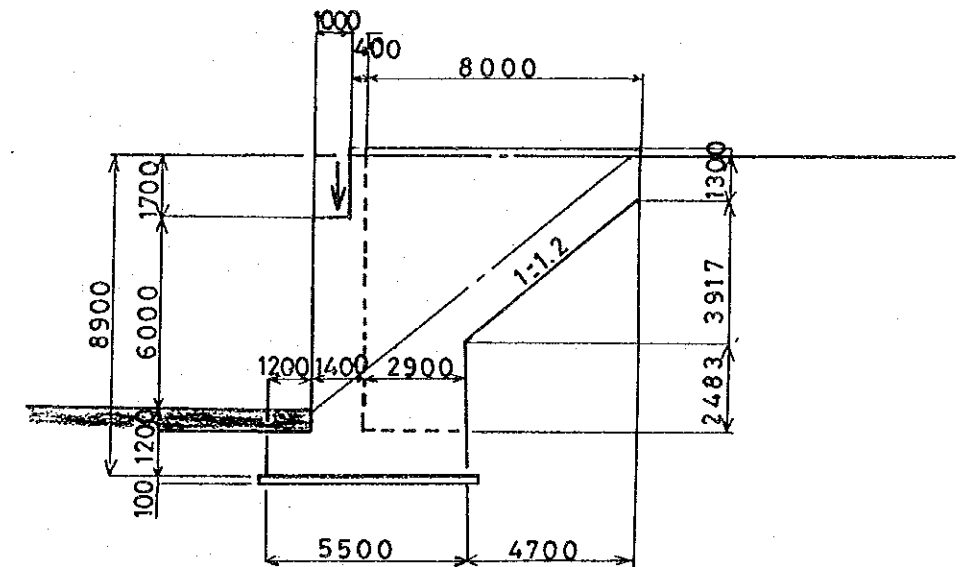
KEY PLAN SCALE 1:500



CROSS SECTION SCALE 1:100



ABUTMENT SCALE 1:200



PROFILE SCALE 1:500

