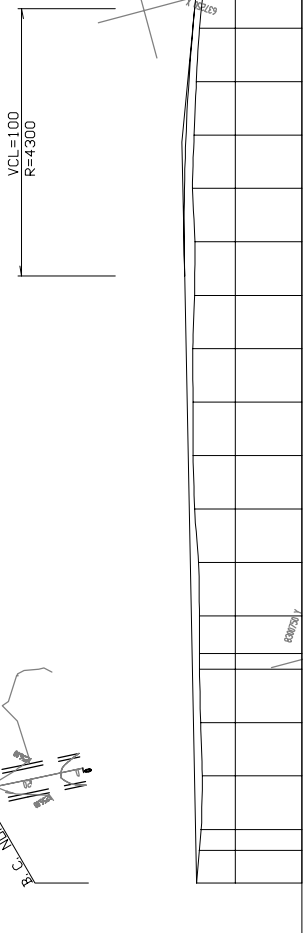
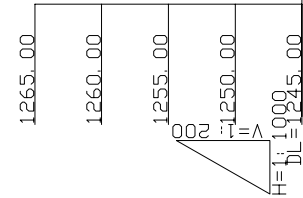
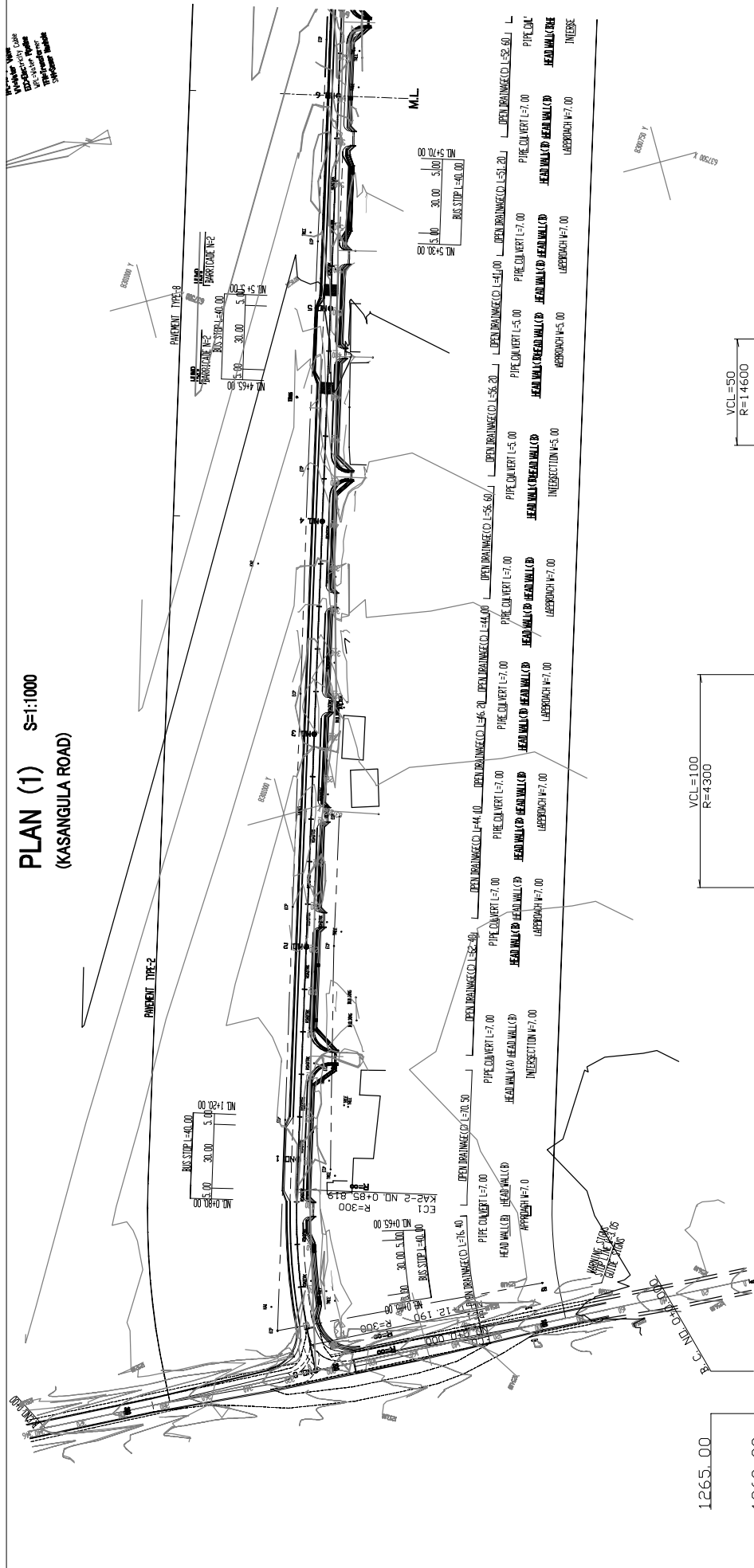


PLAN (1) S=1:1000  
(KASANGULA ROAD)



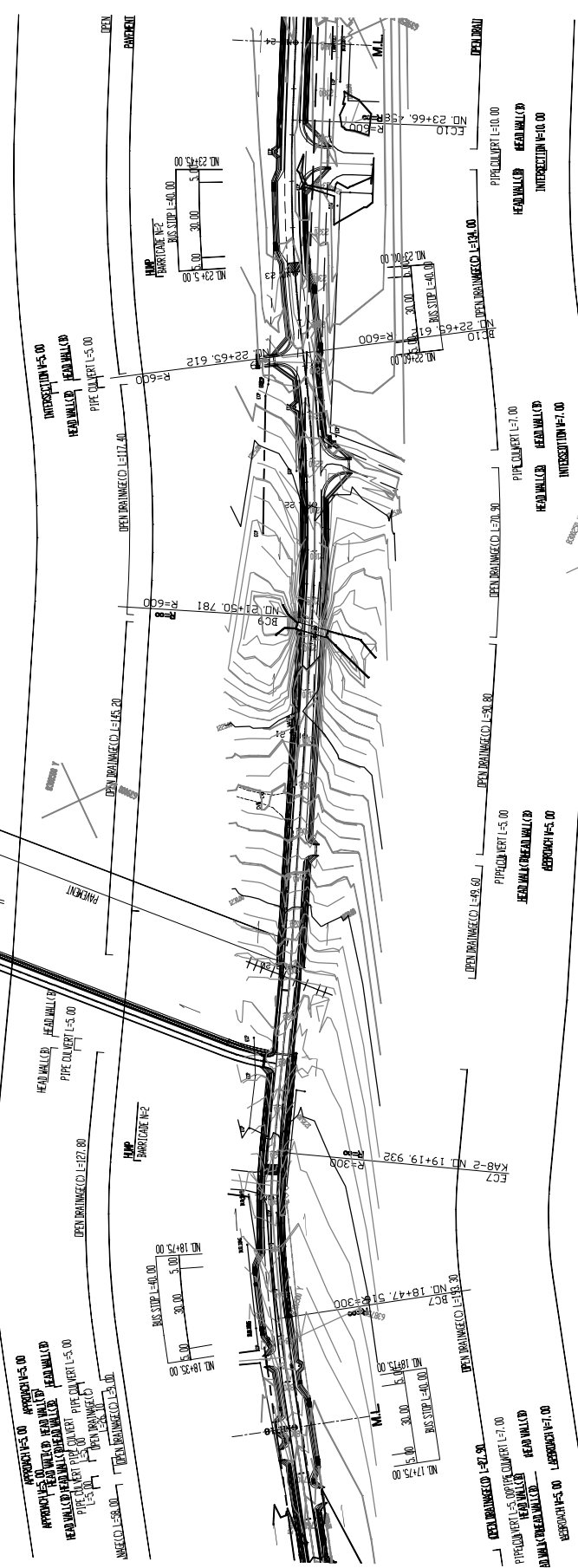
Station No.	Distance	CL Reg Levels	Gradient
0+00	0.00	1252.88	122.88
0+20	20.00	1252.47	122.47
0+40	40.00	1252.98	122.98
0+60	60.00	1252.58	122.58
0+80	80.00	1252.67	122.67
1+00	100.00	1252.67	122.67
1+20	120.00	1252.74	122.74
1+40	140.00	1253.04	123.04
1+60	160.00	1253.14	123.14
1+80	180.00	1253.16	123.16
2+00	200.00	1253.18	123.18
2+20	220.00	1253.04	123.04
2+40	240.00	1253.01	123.01
2+60	260.00	1253.20	123.20
2+80	280.00	1253.07	123.07
3+00	300.00	1252.91	122.91
3+20	320.00	1252.67	122.67
3+40	340.00	1252.24	122.24
3+60	360.00	1251.83	121.83
3+80	380.00	1251.33	121.33
4+00	400.00	1251.12	121.12
4+20	420.00	1250.65	120.65
4+40	440.00	1250.23	120.23
4+60	460.00	1250.02	120.02
4+80	480.00	1249.62	119.62
5+00	500.00	1249.41	119.41
5+20	520.00	1249.18	119.18
5+40	540.00	1248.94	118.94
5+60	560.00	1248.82	118.82
5+80	580.00	1249.05	119.05
6+00	600.00	1248.11	118.11

THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF LUSAKA CITY ROADS (PHASE II) THE REPUBLIC OF ZAMBIA	JAPAN ENGINEERING CONSULTANTS CO.LTD	KASANGULA ROAD PLAN (1/9)	SCALE S=1:1000	MINISTRY OF LOCAL GOVERNMENT AND HOUSING OF THE REPUBLIC OF ZAMBIA	APPROVED DATE	PREPARED CHECKED SUBMITTED	DATE MAR,2005	SHEET NO 7/42
					JAPAN ENGINEERING CONSULTANTS CO.LTD			

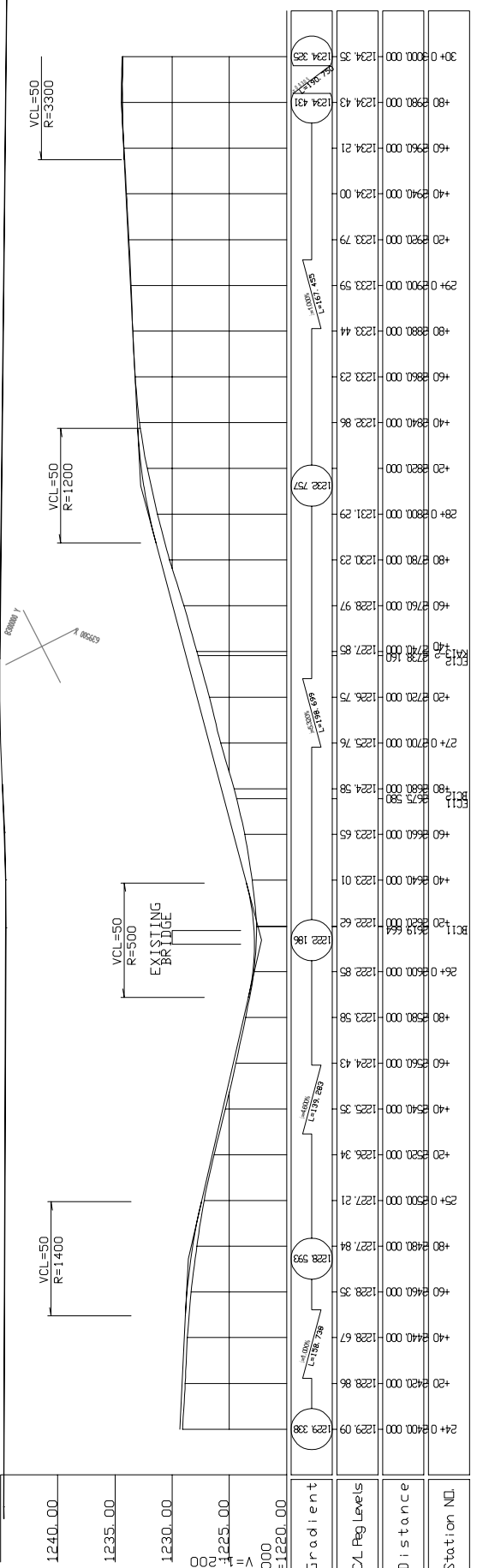
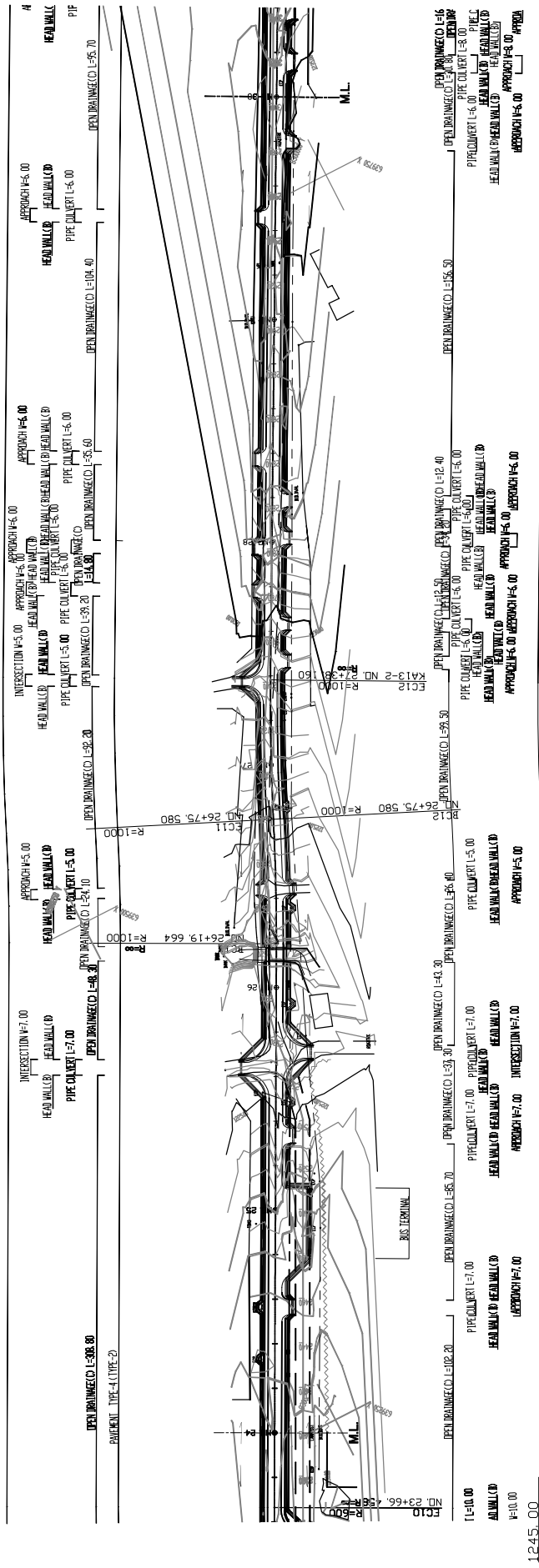




**PLAN (4) S=1:1000**  
**KASANGULA ROAD**

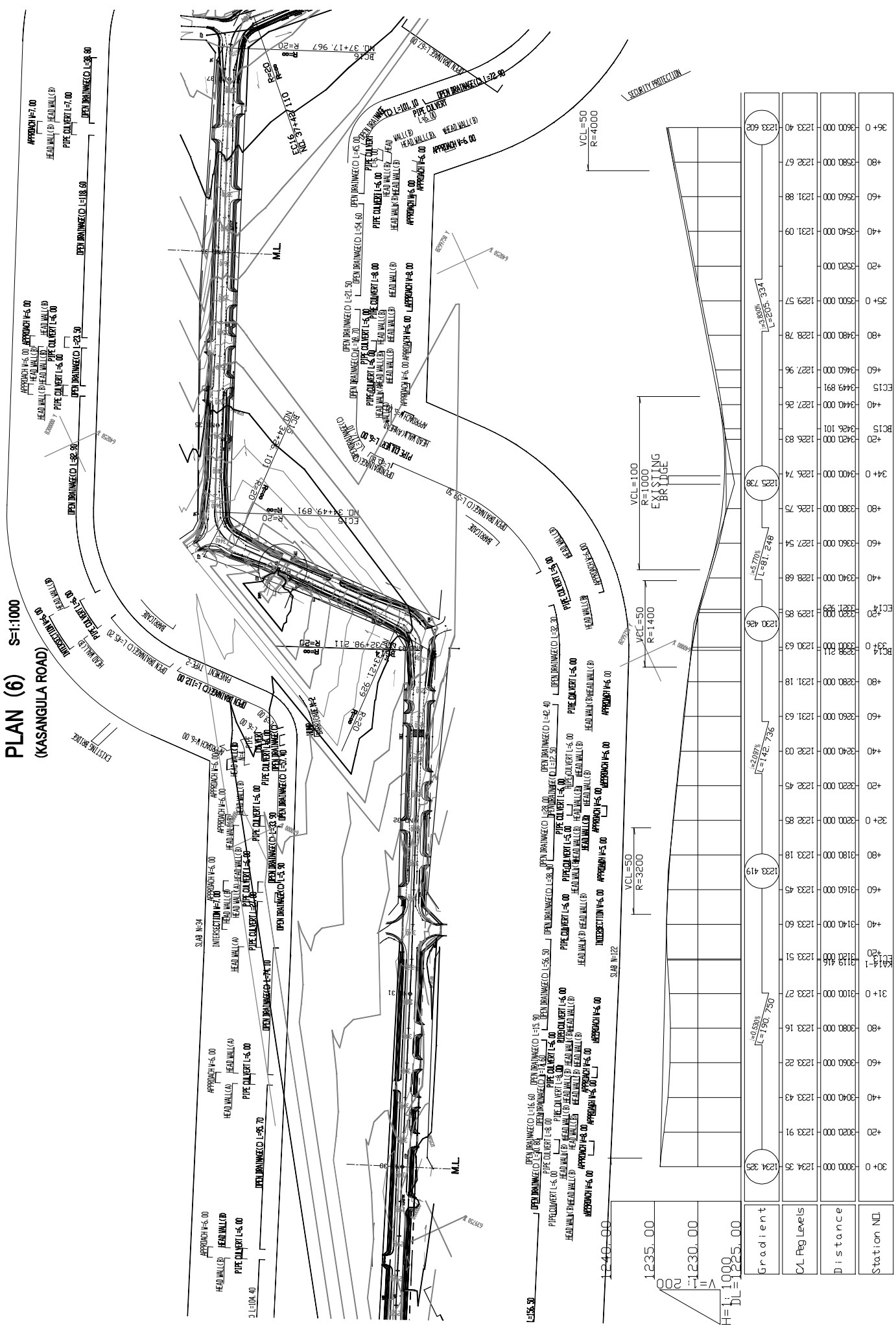


**PLAN (5) S=1:1000**  
**(KASANGULA ROAD)**



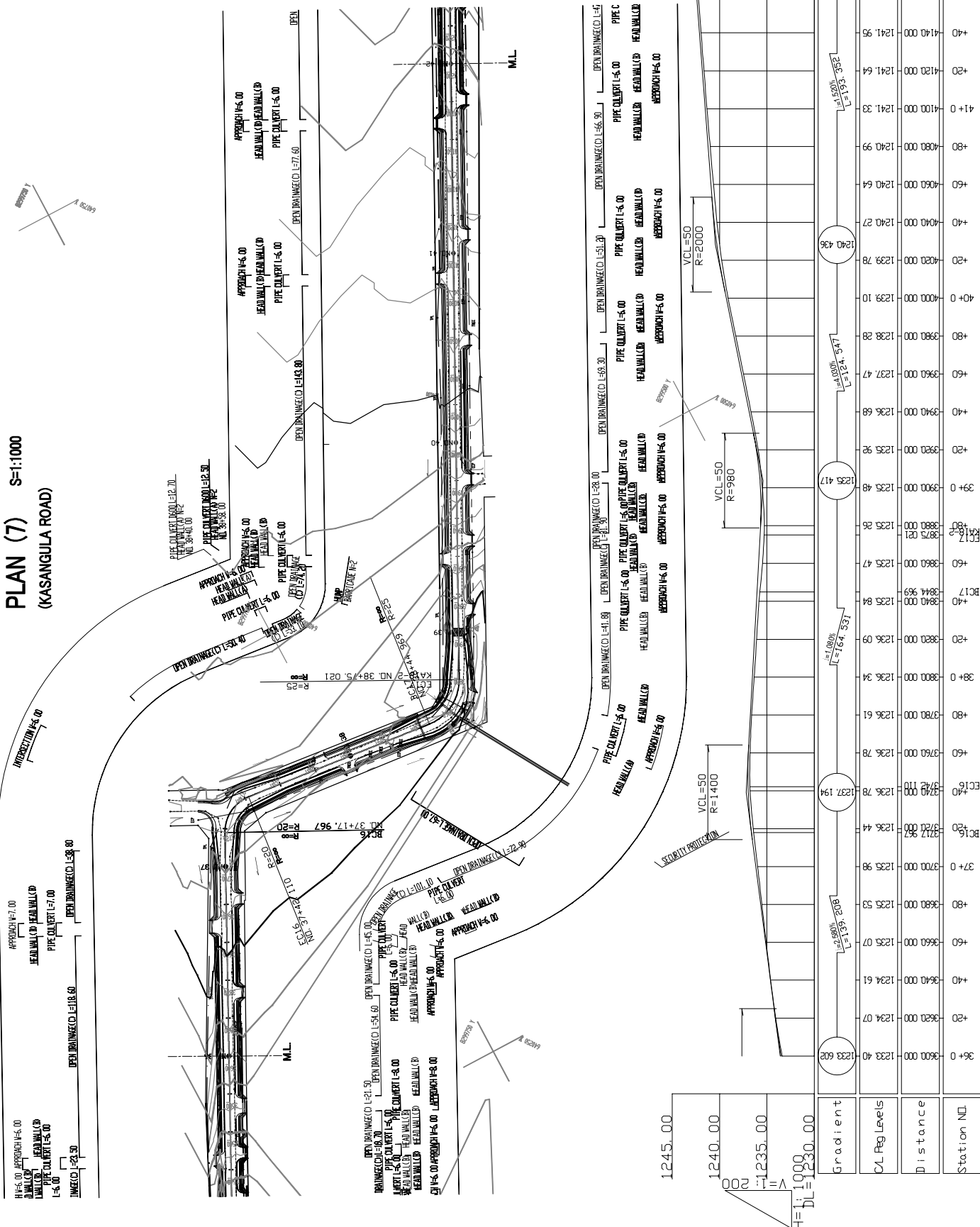
Station No.	Distance	CL Reg Levels	Gradient
24+00	1229.09	1229.09	1229.09
+20	1228.98	1228.98	1228.98
+40	1228.67	1228.67	1228.67
+60	1228.35	1228.35	1228.35
+80	1227.84	1227.84	1227.84
+20	1227.21	1227.21	1227.21
+40	1226.34	1226.34	1226.34
+60	1224.43	1224.43	1224.43
+80	1223.58	1223.58	1223.58
+26	1222.85	1222.85	1222.85
+20	1222.62	1222.62	1222.62
+40	1222.01	1222.01	1222.01
+60	1221.65	1221.65	1221.65
+80	1224.58	1224.58	1224.58
+27	1225.76	1225.76	1225.76
+20	1226.75	1226.75	1226.75
+40	1227.85	1227.85	1227.85
+60	1228.97	1228.97	1228.97
+80	1230.23	1230.23	1230.23
+28	1231.29	1231.29	1231.29
+20	1232.00	1232.00	1232.00
+40	1232.86	1232.86	1232.86
+60	1233.23	1233.23	1233.23
+80	1233.44	1233.44	1233.44
+29	1233.59	1233.59	1233.59
+20	1233.79	1233.79	1233.79
+40	1234.00	1234.00	1234.00
+60	1234.21	1234.21	1234.21
+80	1234.43	1234.43	1234.43
+30	1234.55	1234.55	1234.55

**PLAN (6)** S=1:1000  
(KASANGULA ROAD)



MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	FOR IMPROVEMENT AND MAINTENANCE OF LUSAKA CITY ROADS (PHASE II)	JAPAN ENGINEERING CONSULTANTS CO.LTD	KASANGULA ROAD	SCALE S=1:1000	MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	APPROVED	DATE	PREPARED CHECKED	DATE	SHEET NO
			PLAN (6/9)					JAPAN ENGINEERING CONSULTANTS CO.LTD	MAR,2005	12/42
								SUBMITTED		

**PLAN (7) S=1:1000**  
**(KASANGULA ROAD)**

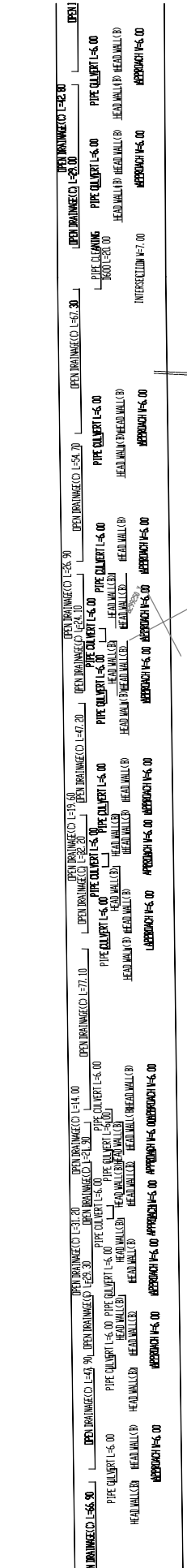
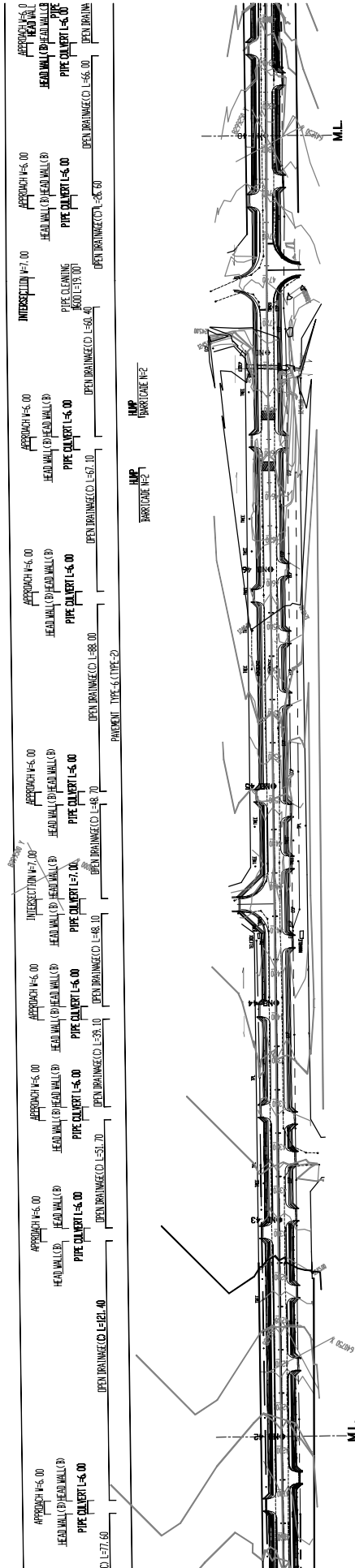


Station No.	Distance	CL Reg Levels	Gradient
36+0	1233.40	1233.40	1:1000
+20	1234.07	1234.07	
+40	1234.61	1234.61	
+60	1235.07	1235.07	
+80	1235.53	1235.53	
+97.0	1235.867	1235.867	
+97.0	1236.78	1236.78	
+80	1236.61	1236.61	
+38+0	1236.34	1236.34	
+20	1236.09	1236.09	
+40	1235.47	1235.47	
+60	1234.90	1234.90	
+80	1235.26	1235.26	
+39+0	1235.48	1235.48	
+20	1235.92	1235.92	
+40	1236.68	1236.68	
+60	1237.47	1237.47	
+80	1238.28	1238.28	
+40+0	1239.10	1239.10	
+20	1239.78	1239.78	
+40	1240.27	1240.27	
+60	1240.64	1240.64	
+80	1240.99	1240.99	
+41+0	1241.33	1241.33	
+20	1241.64	1241.64	
+40	1241.95	1241.95	
+60	1242.25	1242.25	
+80	1242.53	1242.53	
42+0	1242.85	1242.85	

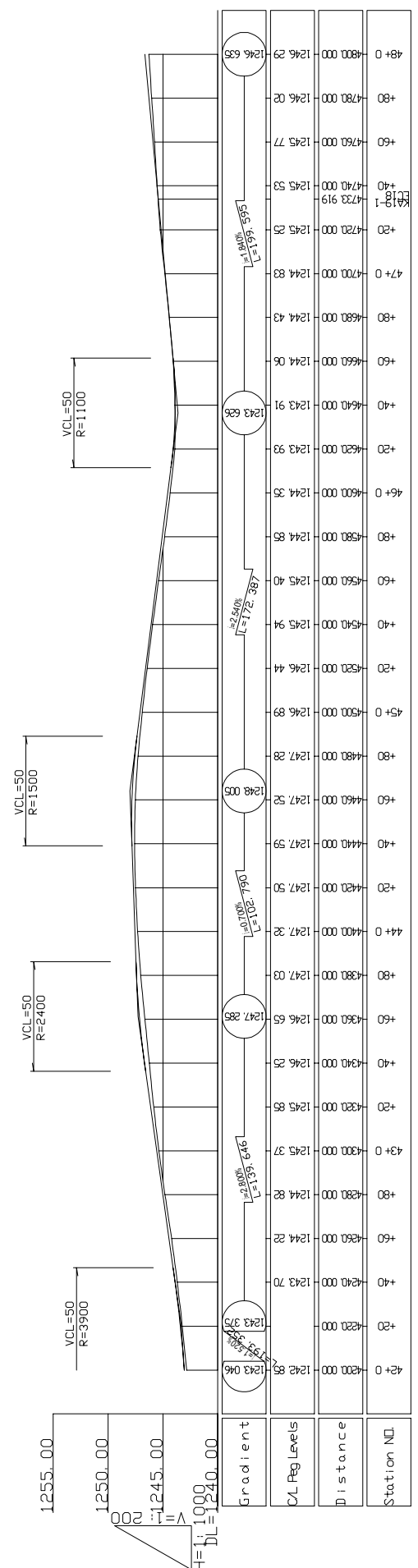
MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF LUSAKA CITY ROADS (PHASE II) THE REPUBLIC OF ZAMBIA	JAPAN ENGINEERING CONSULTANTS CO.LTD	KASANGULA ROAD	SCALE S=1:1000	APPROVED	DATE	SHEET NO
						DATE	13/42
		JAPAN ENGINEERING CONSULTANTS CO.LTD			PREPARED CHECKED	DATE	
					MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	DATE	
					APPROVED	DATE	
					MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	DATE	
					APPROVED	DATE	
					MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	DATE	
					APPROVED	DATE	
					MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	DATE	
					APPROVED	DATE	
					MINISTRY OF LOCAL GOVERNMENT AND HOUSING THE REPUBLIC OF ZAMBIA	DATE	
					APPROVED	DATE	

**PLAN (8) S=1:1000**  
**(KASANGULA ROAD)**

DATE: 2005/03/05  
 DRAWN BY: J. M. M. M. M.  
 CHECKED BY: J. M. M. M. M.  
 APPROVED BY: J. M. M. M. M.  
 PROJECT NO: 101/01/01/01/01/01



VERTICAL CURVE  
TOP OF THE P.C. IS

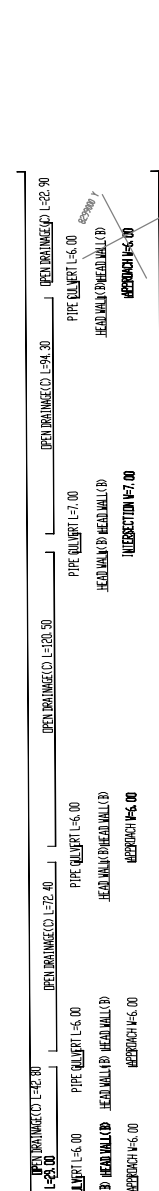
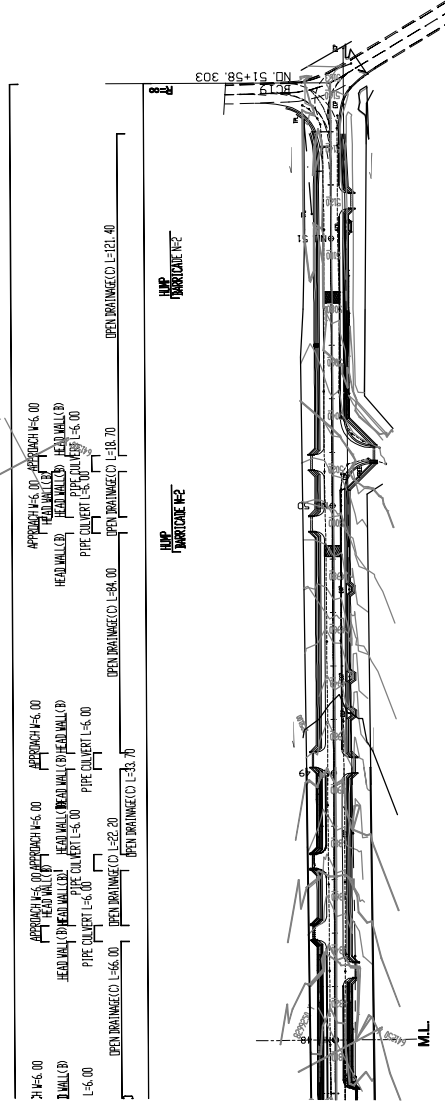


THE PROJECT FOR IMPROVEMENT AND MAINTENANCE OF LUSAKA CITY ROADS (PHASE II) IN THE REPUBLIC OF ZAMBIA	JAPAN ENGINEERING CONSULTANTS CO., LTD	KASANGULA ROAD PLAN (8/9)	SCALE S=1:1000	APPROVED DATE	PREPARED CHECKED SUBMITTED	SHEET NO 14/42

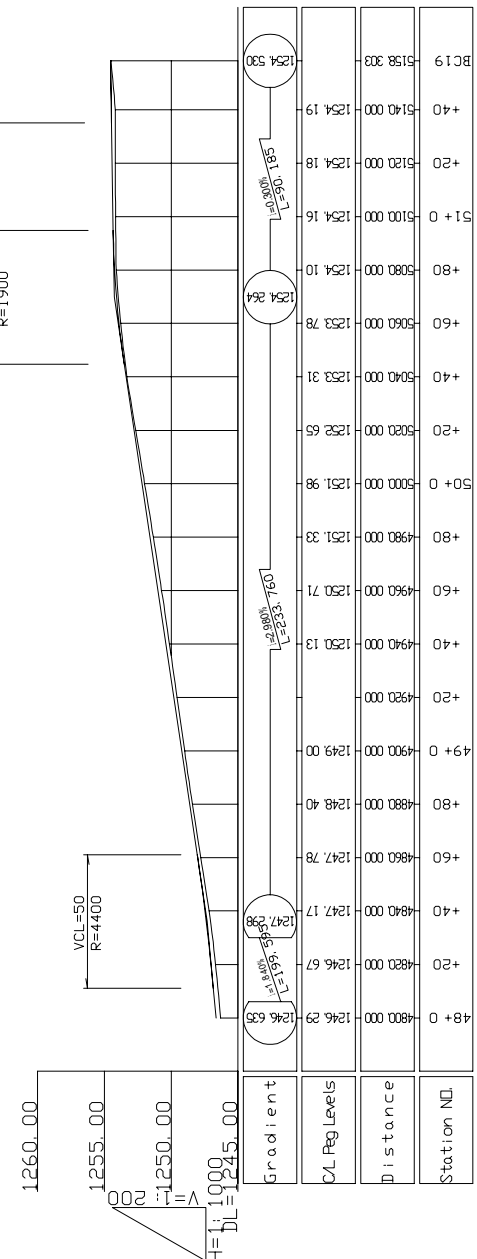


**PLAN (9) S=1:1000**  
**(KASANGULA ROAD)**

EXISTING ROAD AND SIDEWALK TO BE MAINTAINED



E.C. NO. 51458-302



Station No.	Distance	CL Reg Levels	Gradient
48+0	1246.29	1246.67	-1.80%
49+0	1249.00	1247.17	-1.95%
50+0	1251.98	1250.13	-2.08%
51+0	1254.16	1253.78	-2.33%
52+0	1252.65	1253.31	0.00%
53+0	1254.264	1254.264	0.00%
54+0	1254.19	1254.19	0.00%
55+0	1254.303	1254.303	0.00%