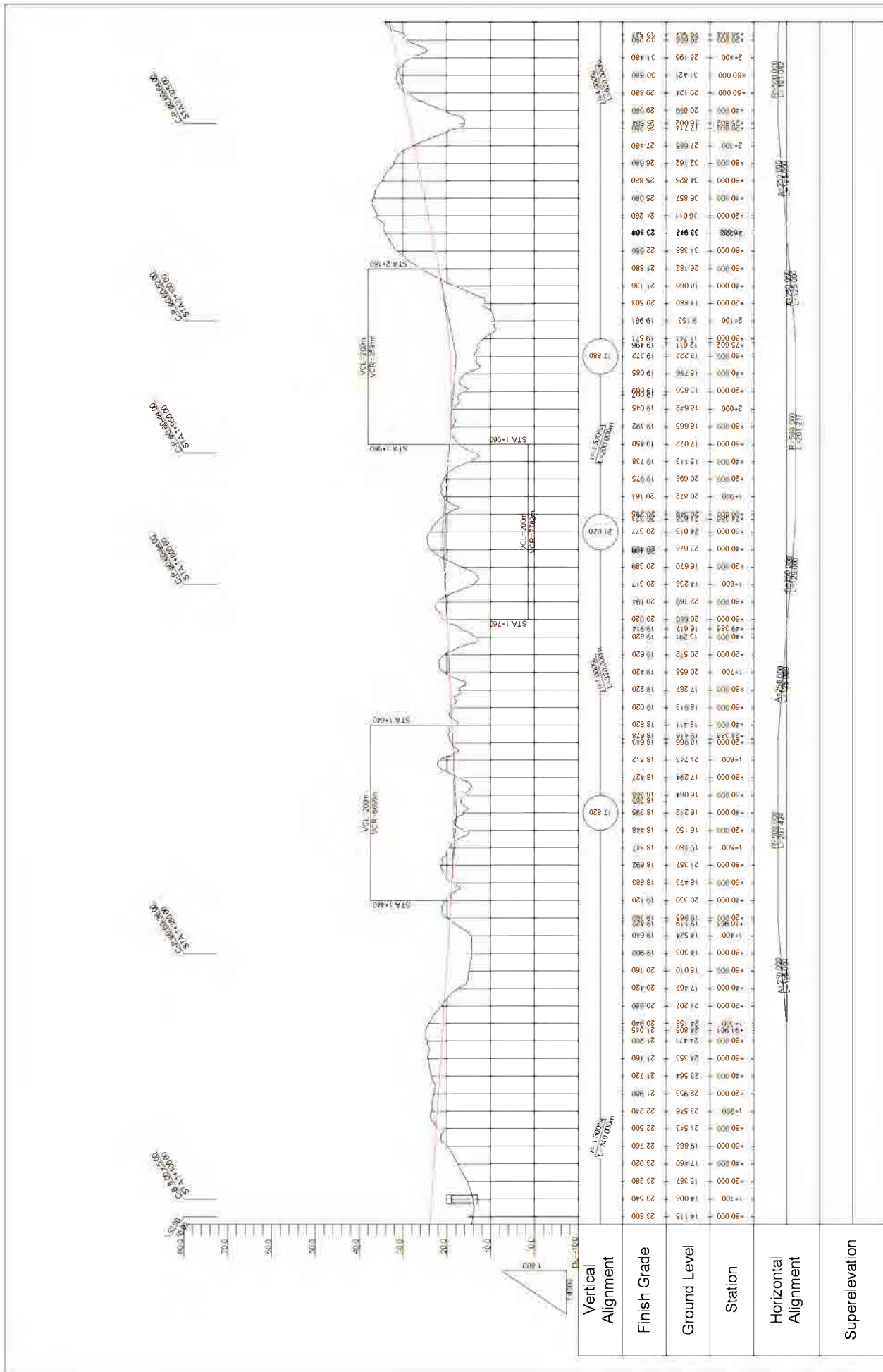
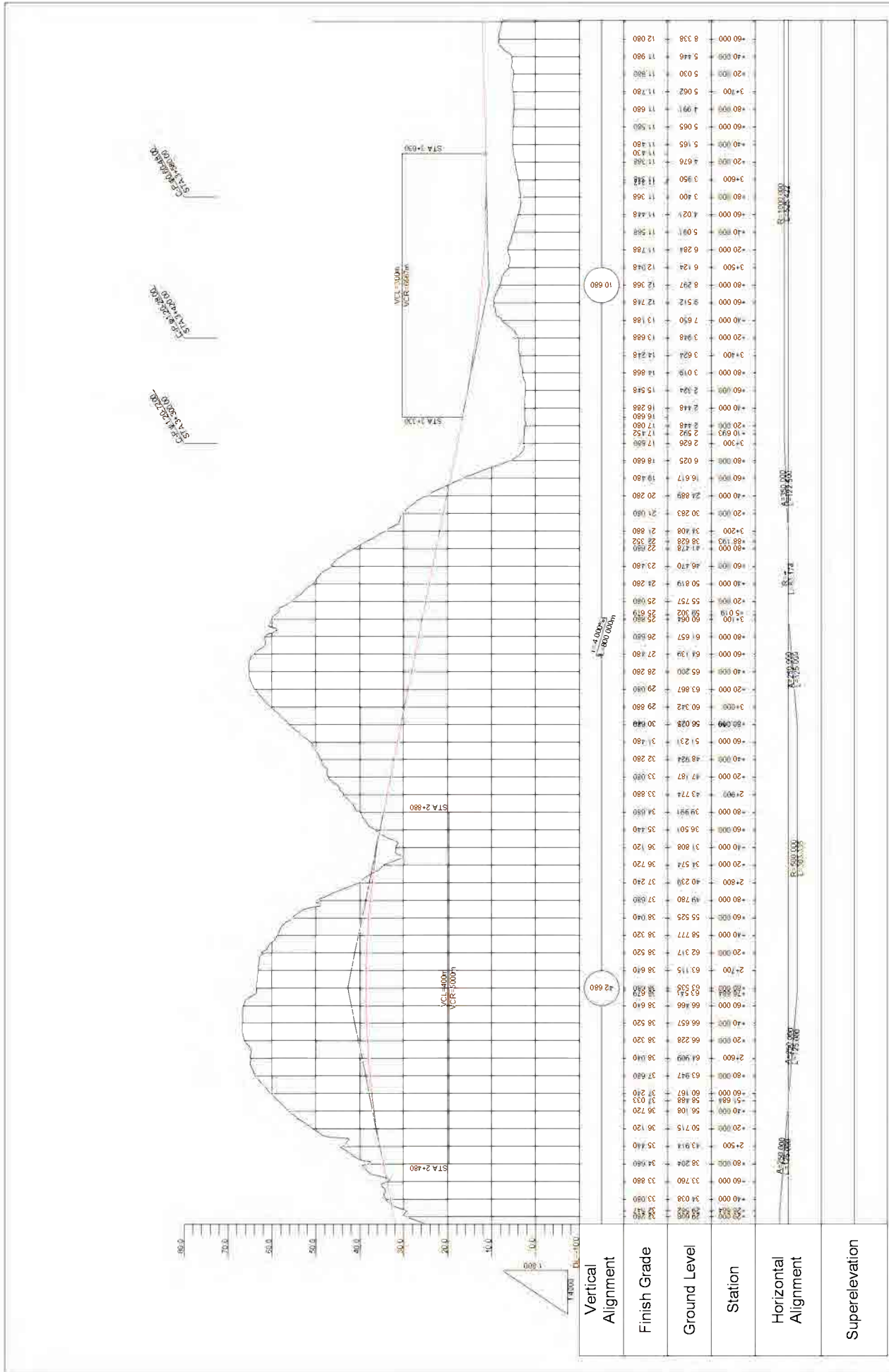


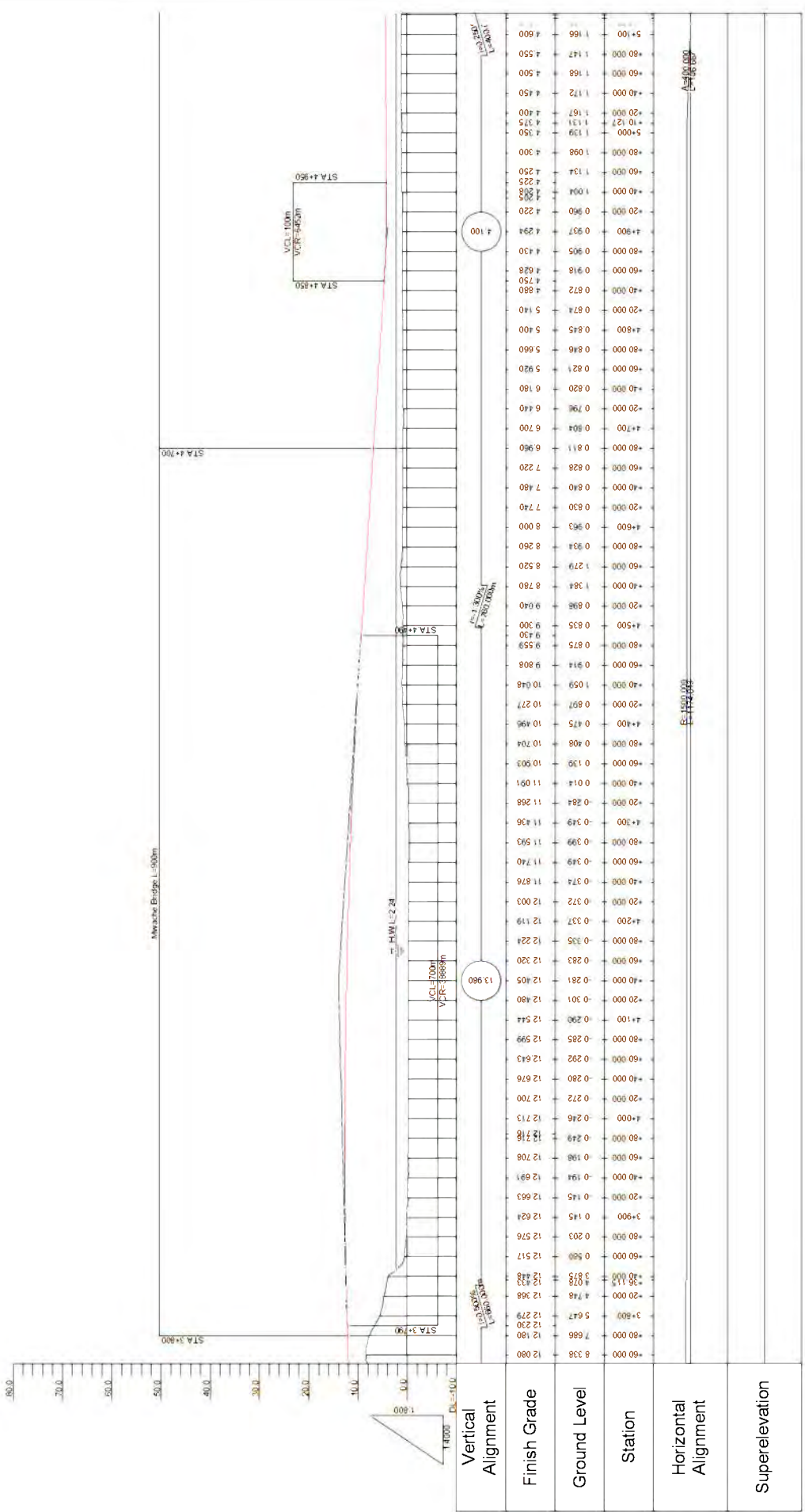
KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	PR-01
			PROFILE (1) MOMBASA SOUTHERN BYPASS (1/15)	Drawing No
			SCALE	H=1:4,000 V=1:800
			DATE	OCT. 2011



KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: PROFILE (2) MOMBASA SOUTHERN BYPASS (2/15)	Drawing No	PR-02
				SCALE	H=1:4,000 V=1:800
				DATE	OCT. 2011

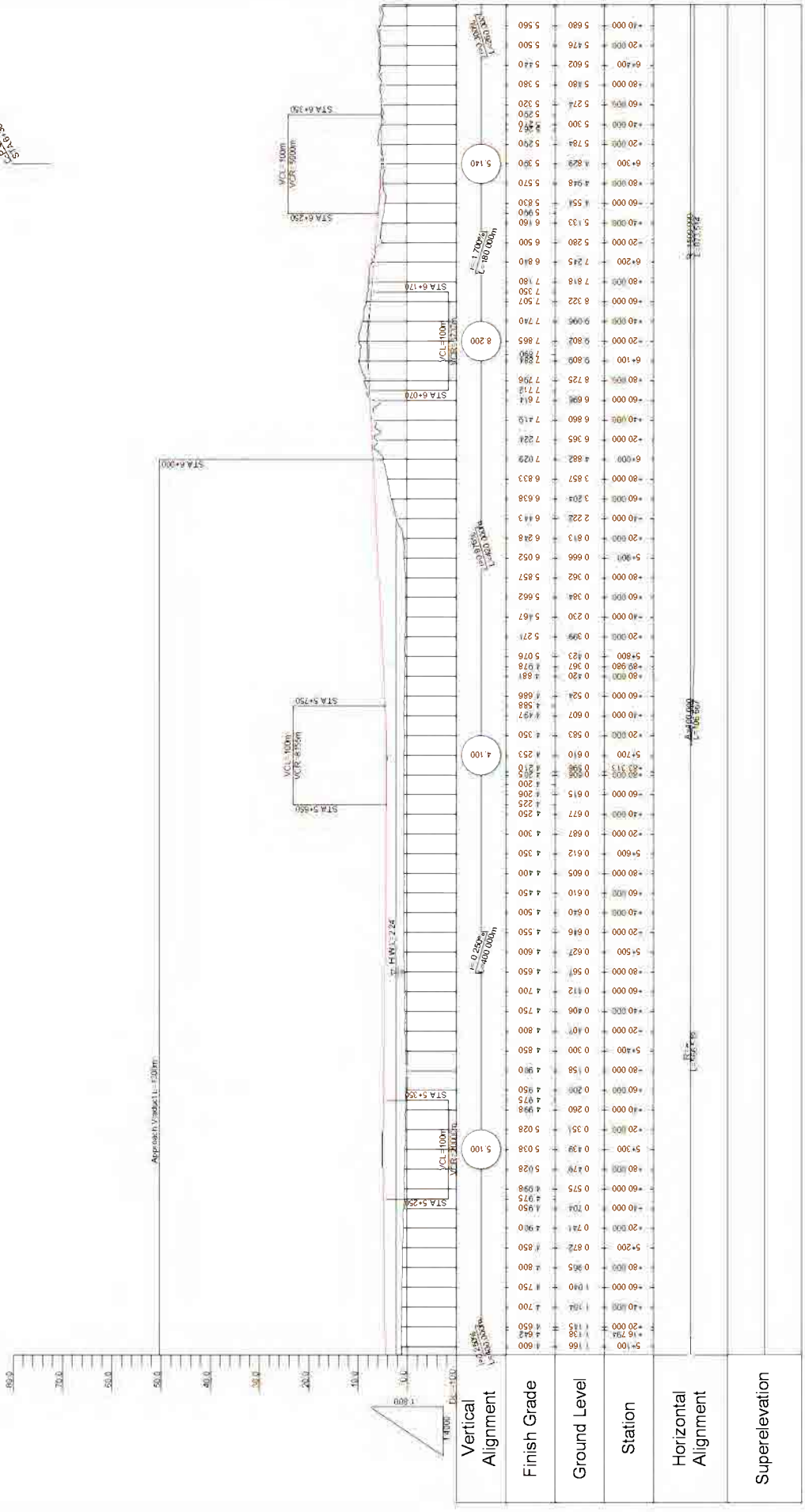


KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: MOMBASA SOUTHERN BYPASS (3/15)	Drawing No	PR-03
				SCALE	H=1:4,000 V=1:800
				DATE	OCT. 2011



KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE:		DRAWING No	PR-04
		PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA			
				DATE	OCT. 2011

DATE: 2011.09.09
 DRAWING NO: PR-05



KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	MOMBASA SOUTHERN BYPASS (5/1.5)	Drawing No	PR-05
			SCALE		H=1:4,000 V=1:800	
					DATE	OCT. 2011

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 STA 6+800
 STA 6+830
 STA 6+860
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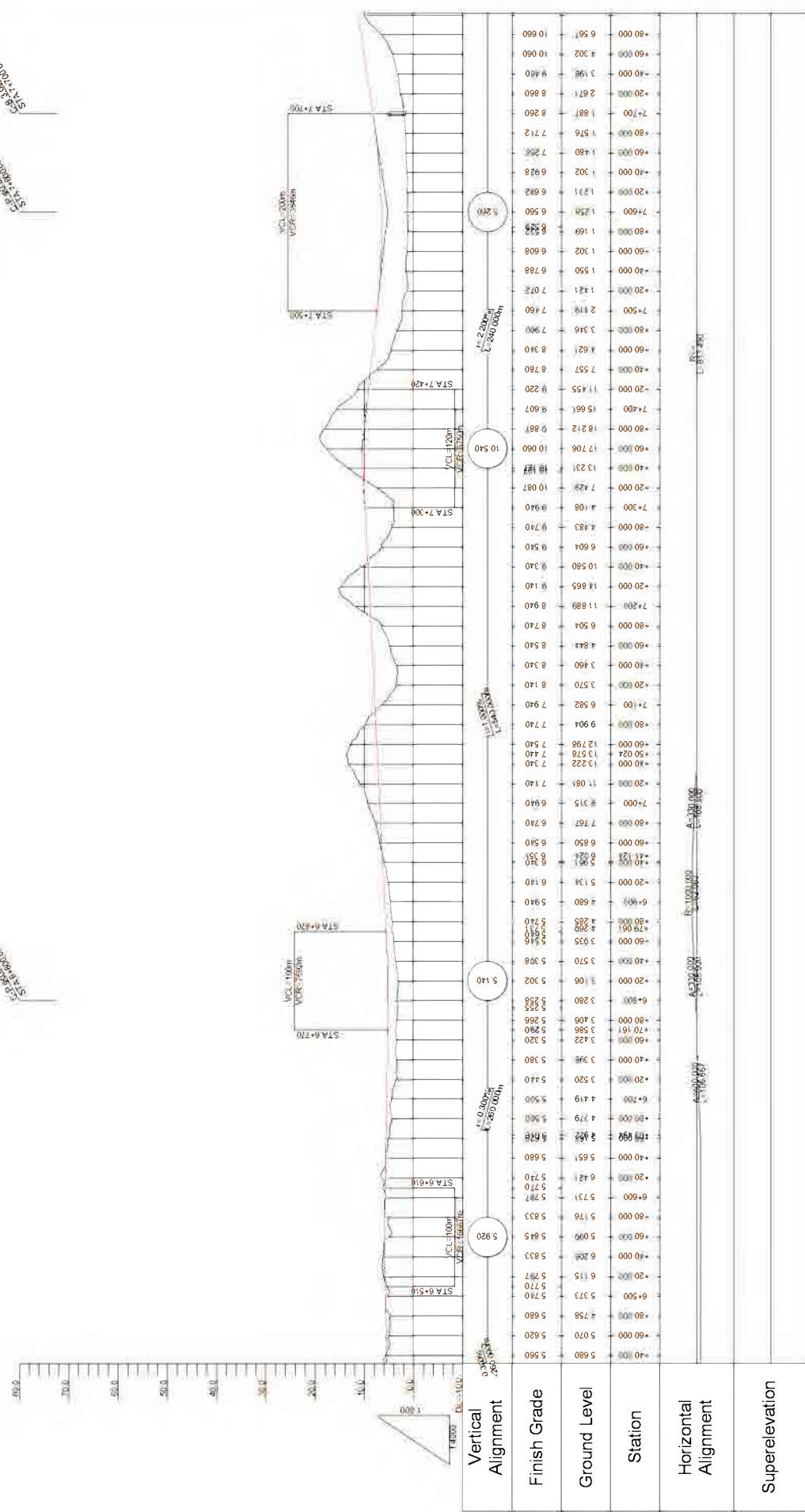
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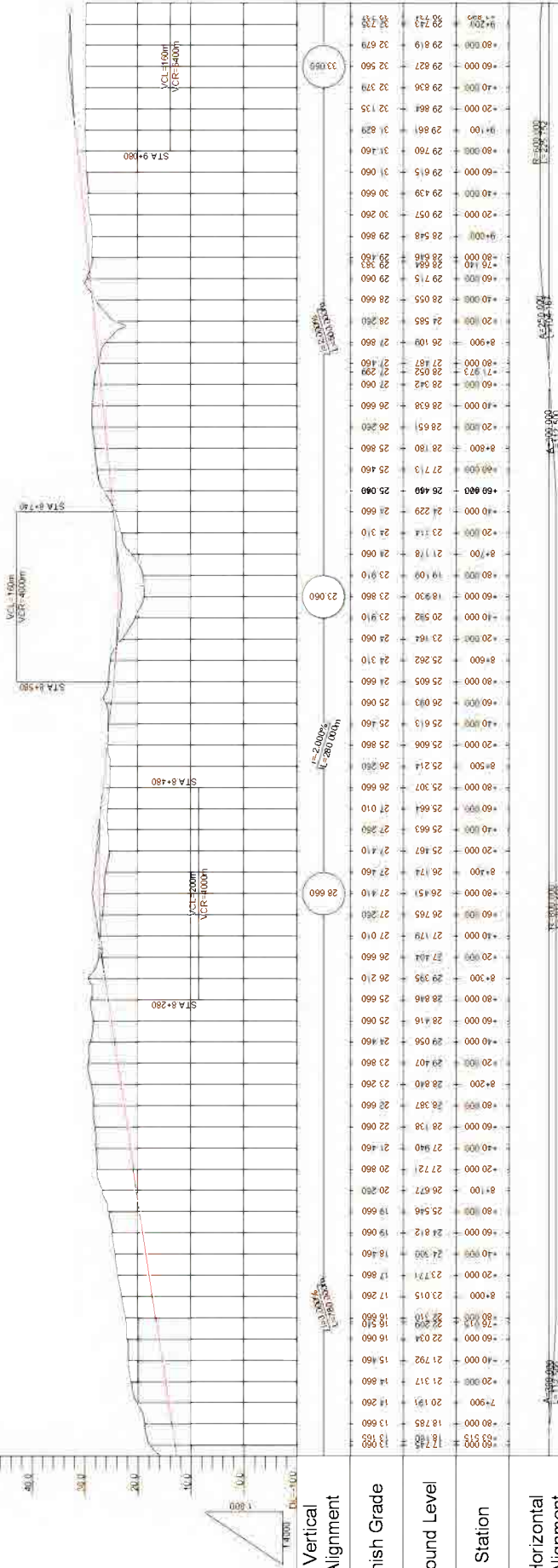
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 STA 8+000



KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: MOMBASA SOUTHERN BYPASS (6/15)	Drawing No	PR-06
				SCALE	H=1:4,000 V=1:800
				DATE	OCT. 2011

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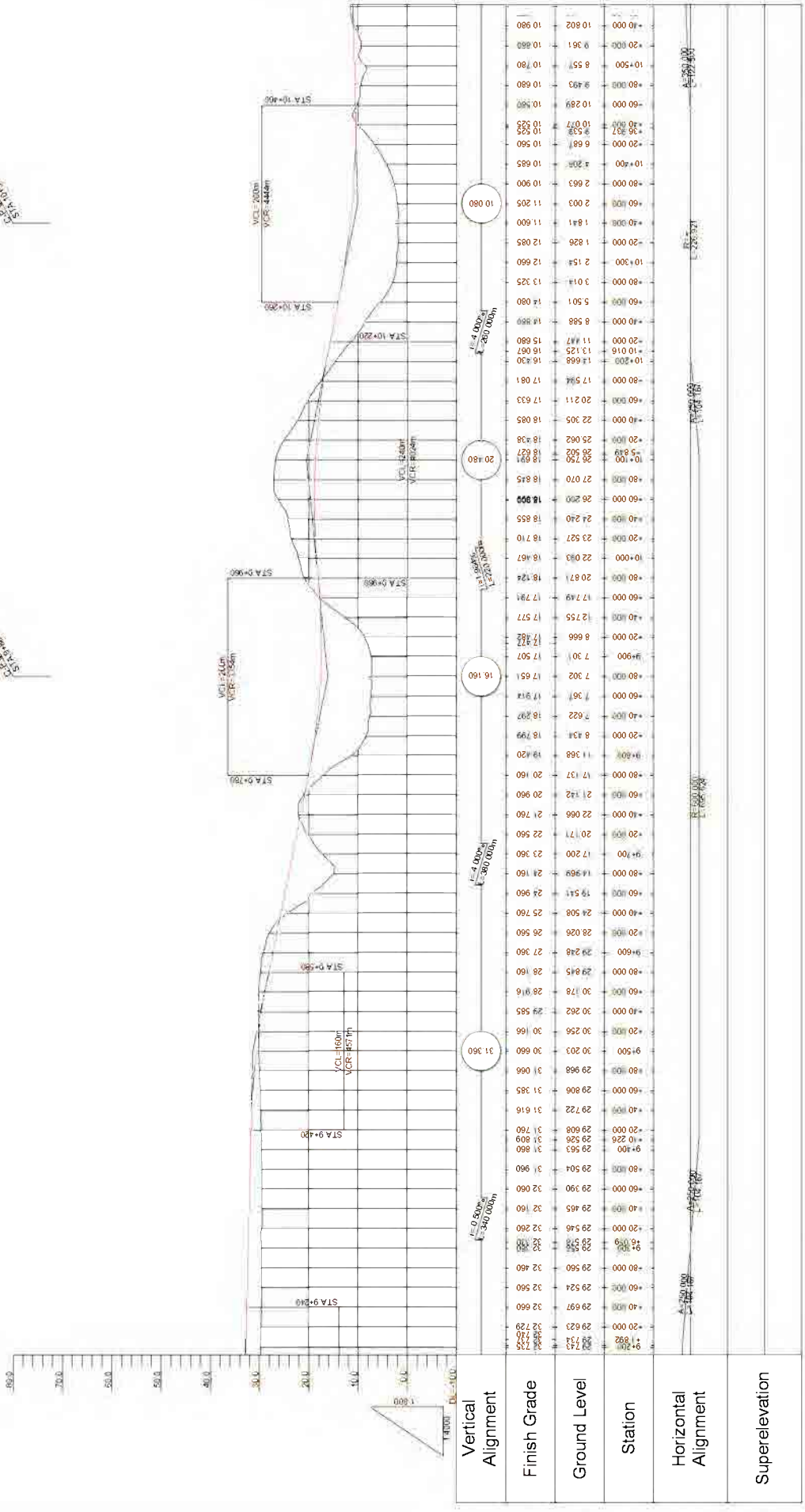


Station	Ground Level	Finish Grade
17+850	17.780	17.850
18+000	17.750	17.900
18+150	17.720	17.950
18+300	17.690	18.000
18+450	17.660	18.050
18+600	17.630	18.100
18+750	17.600	18.150
18+900	17.570	18.200
19+050	17.540	18.250
19+200	17.510	18.300
19+350	17.480	18.350
19+500	17.450	18.400
19+650	17.420	18.450
19+800	17.390	18.500
19+950	17.360	18.550
20+100	17.330	18.600
20+250	17.300	18.650
20+400	17.270	18.700
20+550	17.240	18.750
20+700	17.210	18.800
20+850	17.180	18.850
21+000	17.150	18.900
21+150	17.120	18.950
21+300	17.090	19.000
21+450	17.060	19.050
21+600	17.030	19.100
21+750	17.000	19.150
21+900	16.970	19.200
22+050	16.940	19.250
22+200	16.910	19.300
22+350	16.880	19.350
22+500	16.850	19.400
22+650	16.820	19.450
22+800	16.790	19.500
22+950	16.760	19.550
23+100	16.730	19.600
23+250	16.700	19.650
23+400	16.670	19.700
23+550	16.640	19.750
23+700	16.610	19.800
23+850	16.580	19.850
24+000	16.550	19.900
24+150	16.520	19.950
24+300	16.490	20.000
24+450	16.460	20.050
24+600	16.430	20.100
24+750	16.400	20.150
24+900	16.370	20.200
25+050	16.340	20.250
25+200	16.310	20.300
25+350	16.280	20.350
25+500	16.250	20.400
25+650	16.220	20.450
25+800	16.190	20.500
25+950	16.160	20.550
26+100	16.130	20.600
26+250	16.100	20.650
26+400	16.070	20.700
26+550	16.040	20.750
26+700	16.010	20.800
26+850	15.980	20.850
27+000	15.950	20.900
27+150	15.920	20.950
27+300	15.890	21.000
27+450	15.860	21.050
27+600	15.830	21.100
27+750	15.800	21.150
27+900	15.770	21.200
28+050	15.740	21.250
28+200	15.710	21.300
28+350	15.680	21.350
28+500	15.650	21.400
28+650	15.620	21.450
28+800	15.590	21.500
28+950	15.560	21.550
29+100	15.530	21.600
29+250	15.500	21.650
29+400	15.470	21.700
29+550	15.440	21.750
29+700	15.410	21.800
29+850	15.380	21.850
30+000	15.350	21.900
30+150	15.320	21.950
30+300	15.290	22.000
30+450	15.260	22.050
30+600	15.230	22.100
30+750	15.200	22.150
30+900	15.170	22.200
31+050	15.140	22.250
31+200	15.110	22.300
31+350	15.080	22.350
31+500	15.050	22.400
31+650	15.020	22.450
31+800	14.990	22.500
31+950	14.960	22.550
32+100	14.930	22.600
32+250	14.900	22.650
32+400	14.870	22.700
32+550	14.840	22.750
32+700	14.810	22.800
32+850	14.780	22.850
33+000	14.750	22.900

KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	
			PROFILE (7)	MOMBASA SOUTHERN BYPASS (7/15)
			SCALE H=1:4,000 V=1:800	DATE OCT. 2011
Drawing No	PR-07			

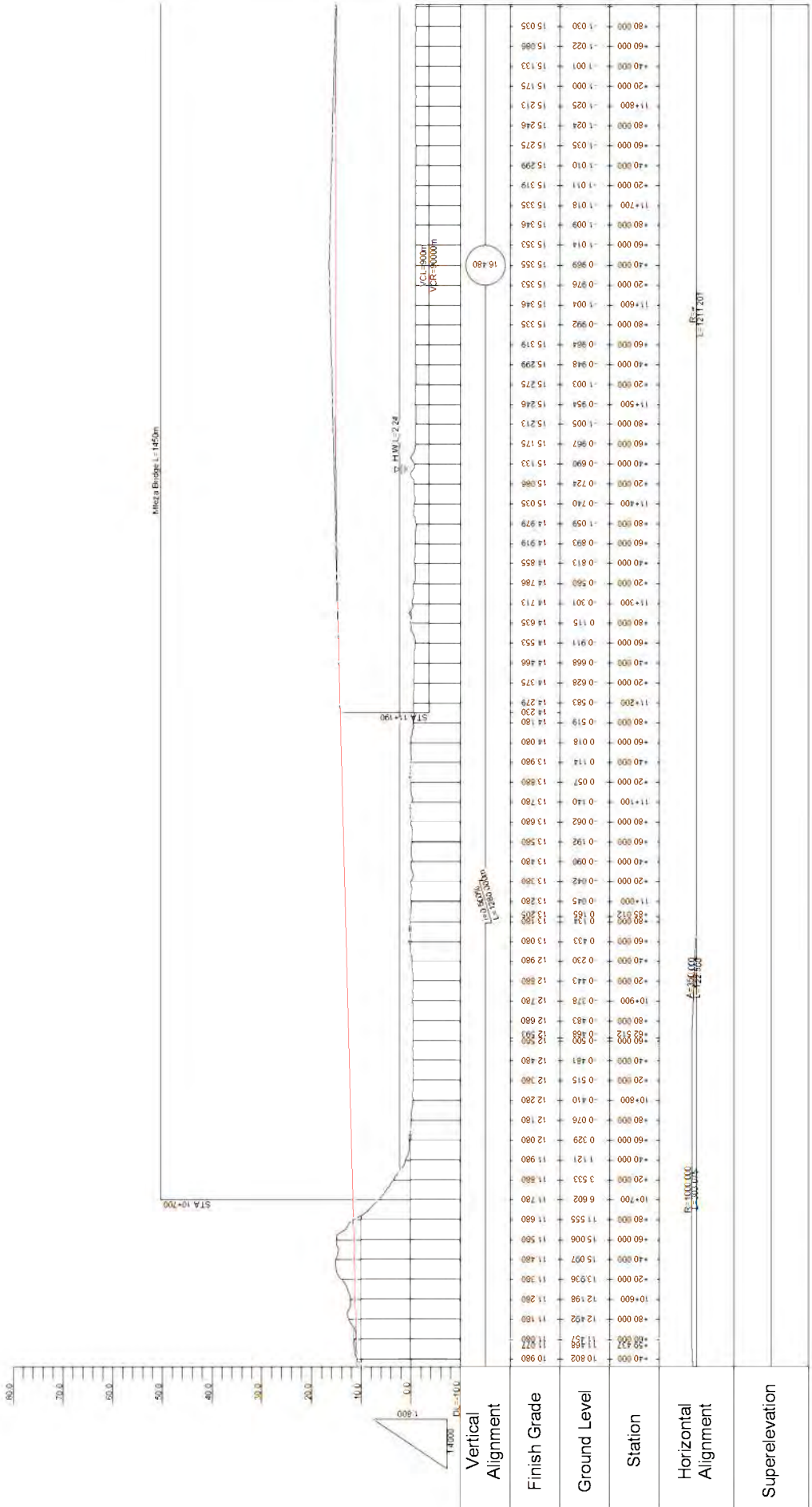
Stationing: STA 9+210 to STA 10+400

Stationing: STA 10+200 to STA 11+400



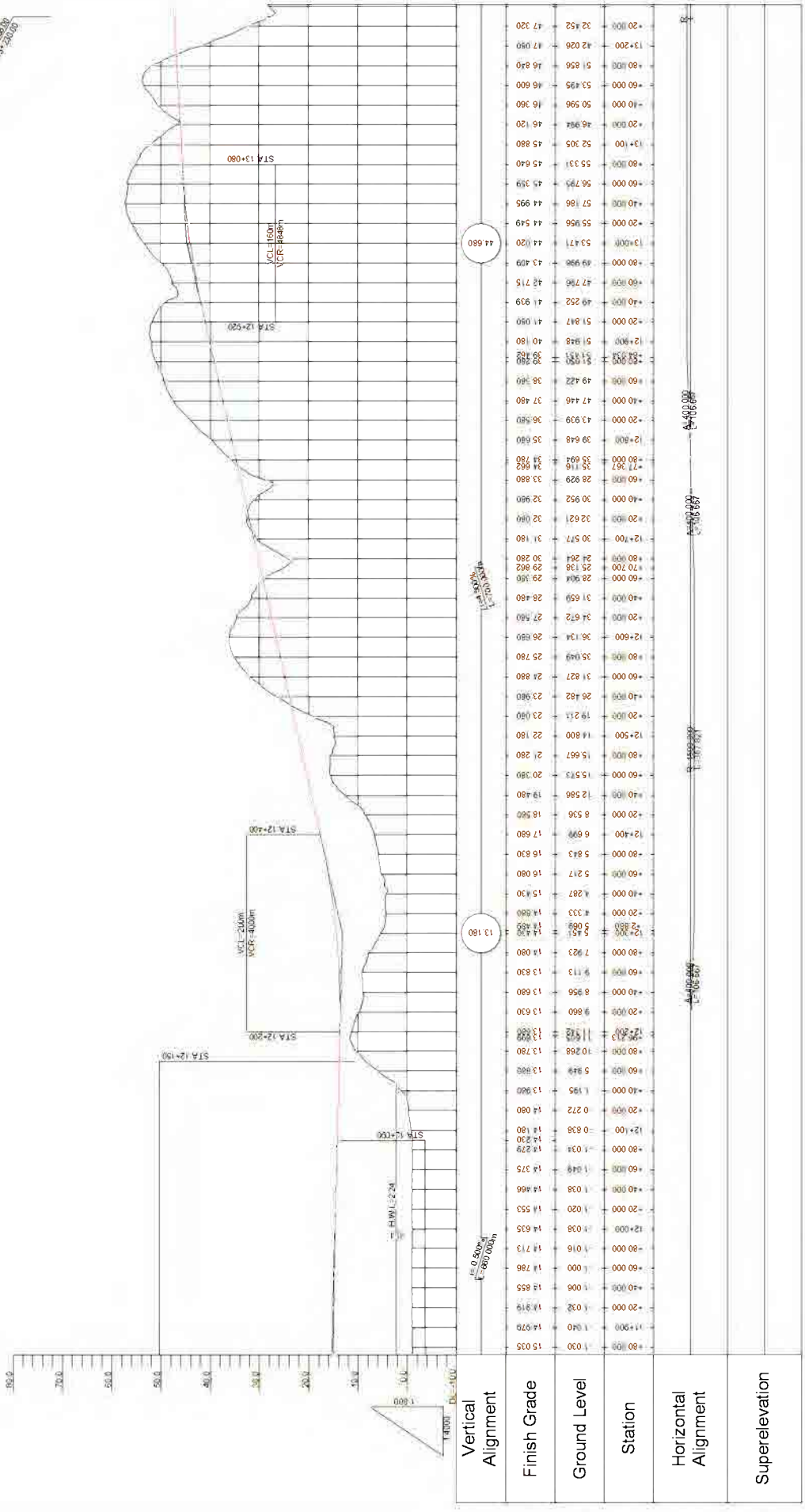
Vertical Alignment	Finish Grade	Ground Level	Station	Horizontal Alignment	Superlevation
10.000	10.802	10.880	10+000	10+000	
10.000	9.361	10.780	10+200	10+200	
10.000	8.557	10.680	10+400	10+400	
10.000	9.493	10.580	10+600	10+600	
10.000	10.289	10.480	10+800	10+800	
10.000	10.077	10.380	11+000	11+000	
10.000	9.538	10.280	11+200	11+200	
10.000	6.681	10.180	11+400	11+400	
10.000	4.206	10.080	11+600	11+600	
10.000	2.663	10.900	11+800	11+800	
10.000	2.003	11.205	12+000	12+000	
10.000	1.841	11.500	12+200	12+200	
10.000	1.826	12.085	12+400	12+400	
10.000	2.154	12.660	12+600	12+600	
10.000	3.014	13.235	12+800	12+800	
10.000	5.501	14.080	13+000	13+000	
10.000	8.586	14.980	13+200	13+200	
10.000	11.447	15.880	13+400	13+400	
10.000	16.668	16.730	13+600	13+600	
10.000	17.584	17.081	13+800	13+800	
10.000	20.211	17.633	14+000	14+000	
10.000	22.305	18.085	14+200	14+200	
10.000	25.062	18.438	14+400	14+400	
10.000	26.520	18.627	14+600	14+600	
10.000	27.070	18.627	14+800	14+800	
10.000	26.290	18.455	15+000	15+000	
10.000	24.240	18.055	15+200	15+200	
10.000	23.527	17.710	15+400	15+400	
10.000	22.083	16.467	15+600	15+600	
10.000	20.871	15.124	15+800	15+800	
10.000	17.749	13.781	16+000	16+000	
10.000	12.755	12.438	16+200	16+200	
10.000	8.666	11.095	16+400	16+400	
10.000	7.301	10.752	16+600	16+600	
10.000	7.302	10.651	16+800	16+800	
10.000	7.367	10.914	17+000	17+000	
10.000	7.622	11.297	17+200	17+200	
10.000	8.434	11.799	17+400	17+400	
10.000	11.368	12.420	17+600	17+600	
10.000	17.137	20.160	17+800	17+800	
10.000	21.142	20.960	18+000	18+000	
10.000	22.066	21.760	18+200	18+200	
10.000	20.171	22.560	18+400	18+400	
10.000	17.200	23.360	18+600	18+600	
10.000	14.969	24.160	18+800	18+800	
10.000	12.541	24.960	19+000	19+000	
10.000	24.508	25.760	19+200	19+200	
10.000	28.026	26.560	19+400	19+400	
10.000	29.248	27.360	19+600	19+600	
10.000	29.845	28.160	19+800	19+800	
10.000	30.778	28.960	20+000	20+000	
10.000	30.262	29.585	20+200	20+200	
10.000	30.256	30.160	20+400	20+400	
10.000	30.203	30.660	20+600	20+600	
10.000	29.968	31.060	20+800	20+800	
10.000	29.806	31.385	21+000	21+000	
10.000	29.722	31.616	21+200	21+200	
10.000	29.526	31.809	21+400	21+400	
10.000	29.563	31.860	21+600	21+600	
10.000	29.504	31.960	21+800	21+800	
10.000	29.390	32.060	22+000	22+000	
10.000	29.465	32.160	22+200	22+200	
10.000	29.546	32.260	22+400	22+400	
10.000	29.529	32.360	22+600	22+600	
10.000	29.560	32.460	22+800	22+800	
10.000	29.524	32.560	23+000	23+000	
10.000	29.697	32.660	23+200	23+200	
10.000	29.623	32.760	23+400	23+400	
10.000	29.742	32.860	23+600	23+600	
10.000	29.884	32.960	23+800	23+800	
10.000	29.992	33.060	24+000	24+000	

KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: MOMBASA SOUTHERN BYPASS (8/15)	Drawing No	PR-08
				SCALE	H=1:4,000 V=1:800
				DATE	OCT. 2011

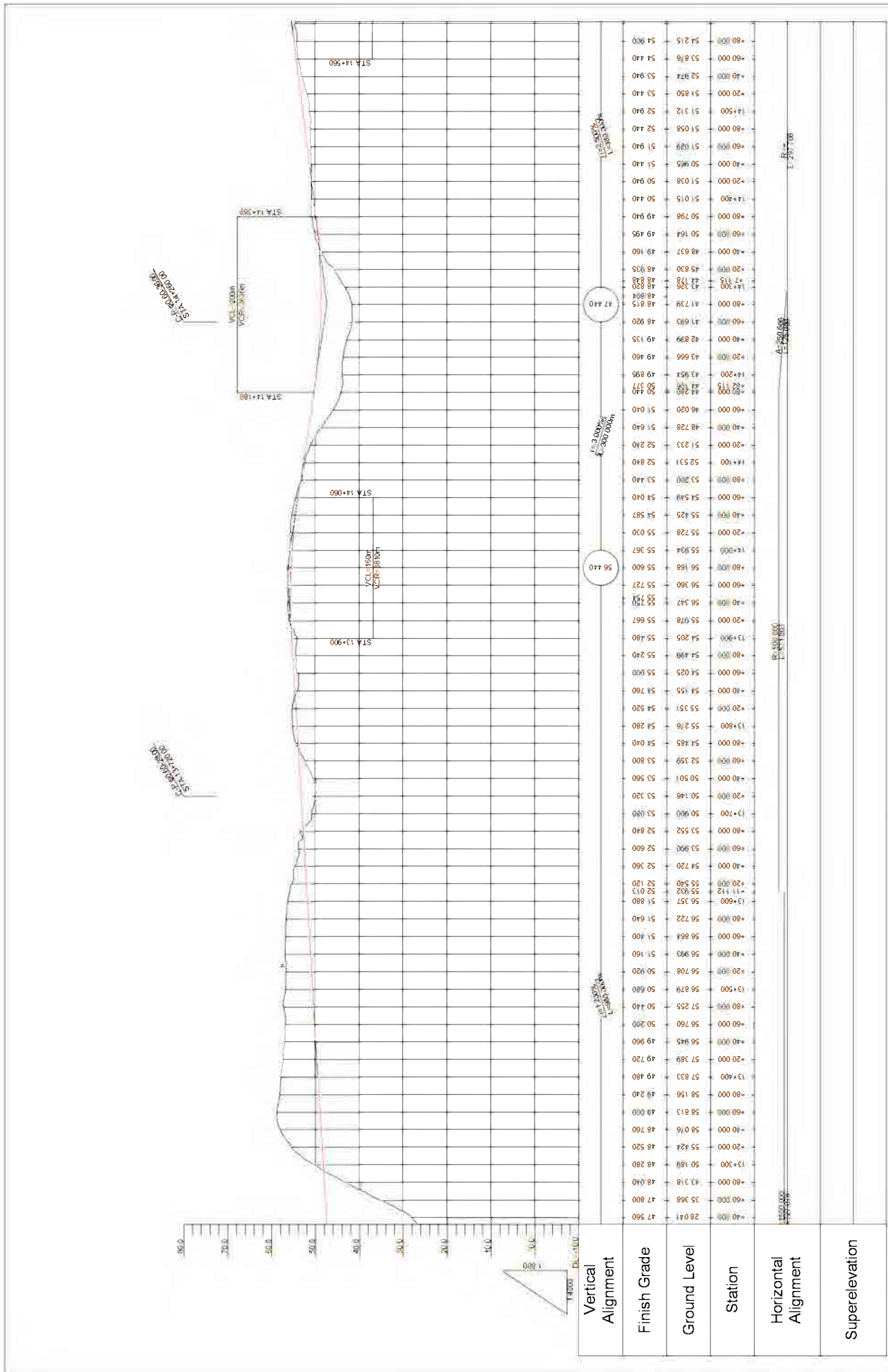


KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:		
			PROFILE (9) MOMBASA SOUTHERN BYPASS (9/15)		
Drawing No	PR-09	SCALE	H=1:4,000 V=1:800	DATE	OCT. 2011

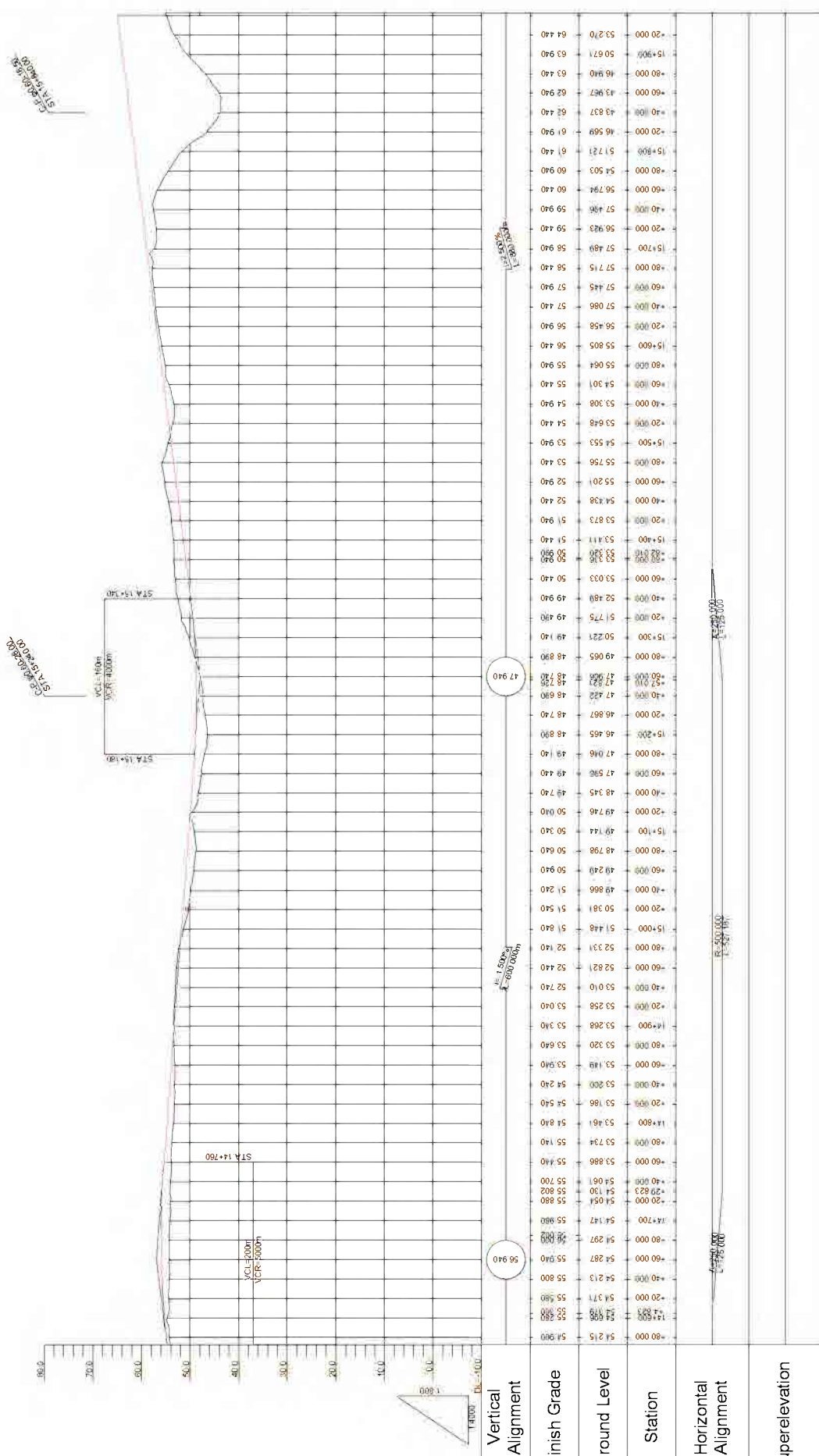
C.P. 40+00.000
 STA 12+50.00



KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: MOMBASA SOUTHERN BYPASS (10/15)	Drawing No	PR-10
				SCALE	H=1:4,000 V=1:800
				DATE	OCT. 2011

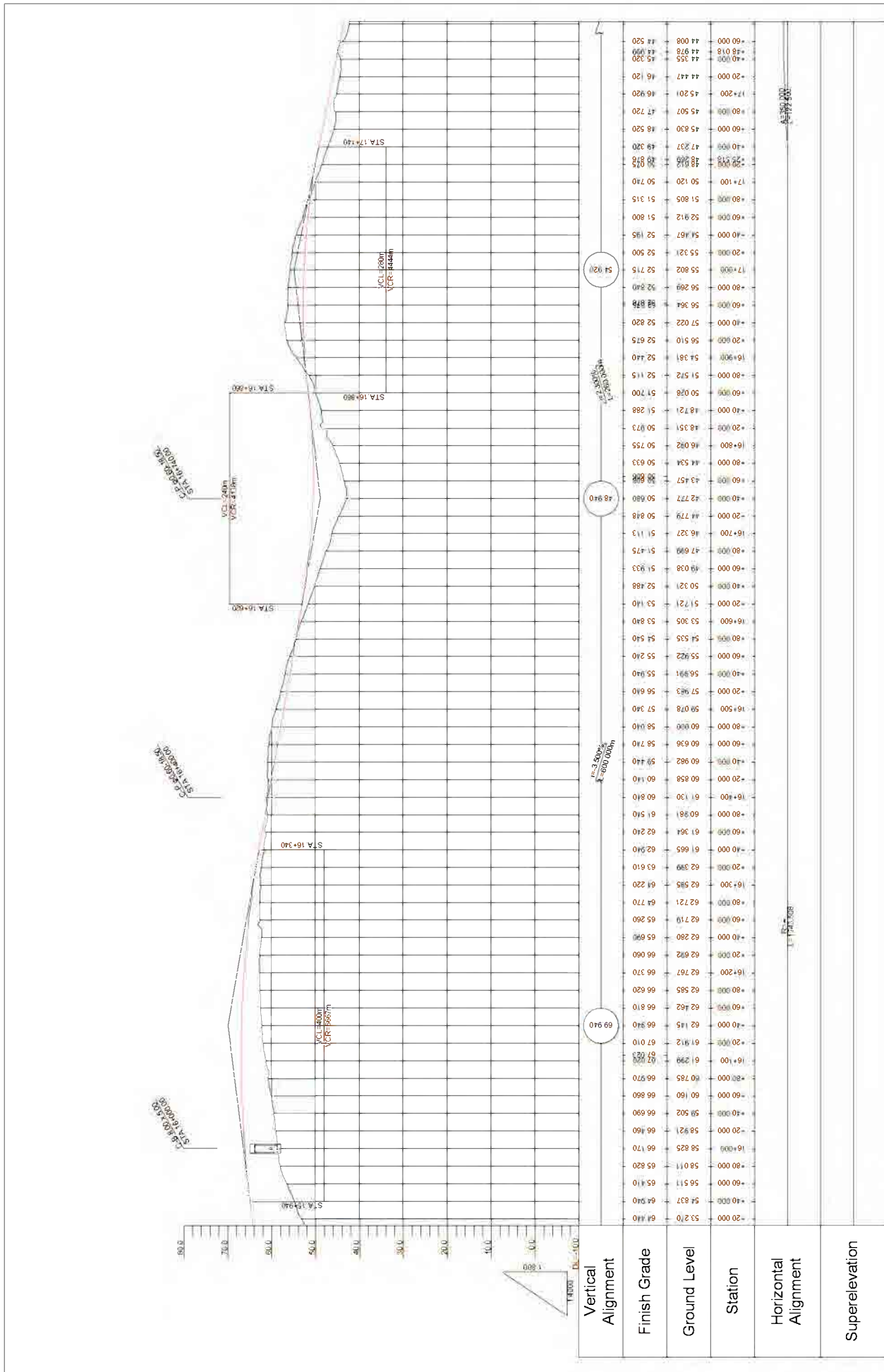


KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	Drawing No	PR-11
			SCALE	H=1:4,000 V=1:800
			DATE	OCT. 2011



Vertical Alignment	Station	Ground Level	Finish Grade
	54.900	54.215	54.215
	55.000	54.280	54.280
	55.100	54.345	54.345
	55.200	54.410	54.410
	55.300	54.475	54.475
	55.400	54.540	54.540
	55.500	54.605	54.605
	55.600	54.670	54.670
	55.700	54.735	54.735
	55.800	54.800	54.800
	55.900	54.865	54.865
	56.000	54.930	54.930
	56.100	55.000	55.000
	56.200	55.070	55.070
	56.300	55.140	55.140
	56.400	55.210	55.210
	56.500	55.280	55.280
	56.600	55.350	55.350
	56.700	55.420	55.420
	56.800	55.490	55.490
	56.900	55.560	55.560
	57.000	55.630	55.630
	57.100	55.700	55.700
	57.200	55.770	55.770
	57.300	55.840	55.840
	57.400	55.910	55.910
	57.500	55.980	55.980
	57.600	56.050	56.050
	57.700	56.120	56.120
	57.800	56.190	56.190
	57.900	56.260	56.260
	58.000	56.330	56.330
	58.100	56.400	56.400
	58.200	56.470	56.470
	58.300	56.540	56.540
	58.400	56.610	56.610
	58.500	56.680	56.680
	58.600	56.750	56.750
	58.700	56.820	56.820
	58.800	56.890	56.890
	58.900	56.960	56.960
	59.000	57.030	57.030
	59.100	57.100	57.100
	59.200	57.170	57.170
	59.300	57.240	57.240
	59.400	57.310	57.310
	59.500	57.380	57.380
	59.600	57.450	57.450
	59.700	57.520	57.520
	59.800	57.590	57.590
	59.900	57.660	57.660
	60.000	57.730	57.730
	60.100	57.800	57.800
	60.200	57.870	57.870
	60.300	57.940	57.940
	60.400	58.010	58.010
	60.500	58.080	58.080
	60.600	58.150	58.150
	60.700	58.220	58.220
	60.800	58.290	58.290
	60.900	58.360	58.360
	61.000	58.430	58.430
	61.100	58.500	58.500
	61.200	58.570	58.570
	61.300	58.640	58.640
	61.400	58.710	58.710
	61.500	58.780	58.780
	61.600	58.850	58.850
	61.700	58.920	58.920
	61.800	58.990	58.990
	61.900	59.060	59.060
	62.000	59.130	59.130
	62.100	59.200	59.200
	62.200	59.270	59.270
	62.300	59.340	59.340
	62.400	59.410	59.410
	62.500	59.480	59.480
	62.600	59.550	59.550
	62.700	59.620	59.620
	62.800	59.690	59.690
	62.900	59.760	59.760
	63.000	59.830	59.830
	63.100	59.900	59.900
	63.200	59.970	59.970
	63.300	60.040	60.040
	63.400	60.110	60.110
	63.500	60.180	60.180
	63.600	60.250	60.250
	63.700	60.320	60.320
	63.800	60.390	60.390
	63.900	60.460	60.460
	64.000	60.530	60.530
	64.100	60.600	60.600
	64.200	60.670	60.670
	64.300	60.740	60.740
	64.400	60.810	60.810
	64.440	60.880	60.880

KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:		PR-12
			MOMBASA SOUTHERN BYPASS (12/15)		
			Drawing No	SCALE	H=1:4,000 V=1:800
			DATE	OCT. 2011	

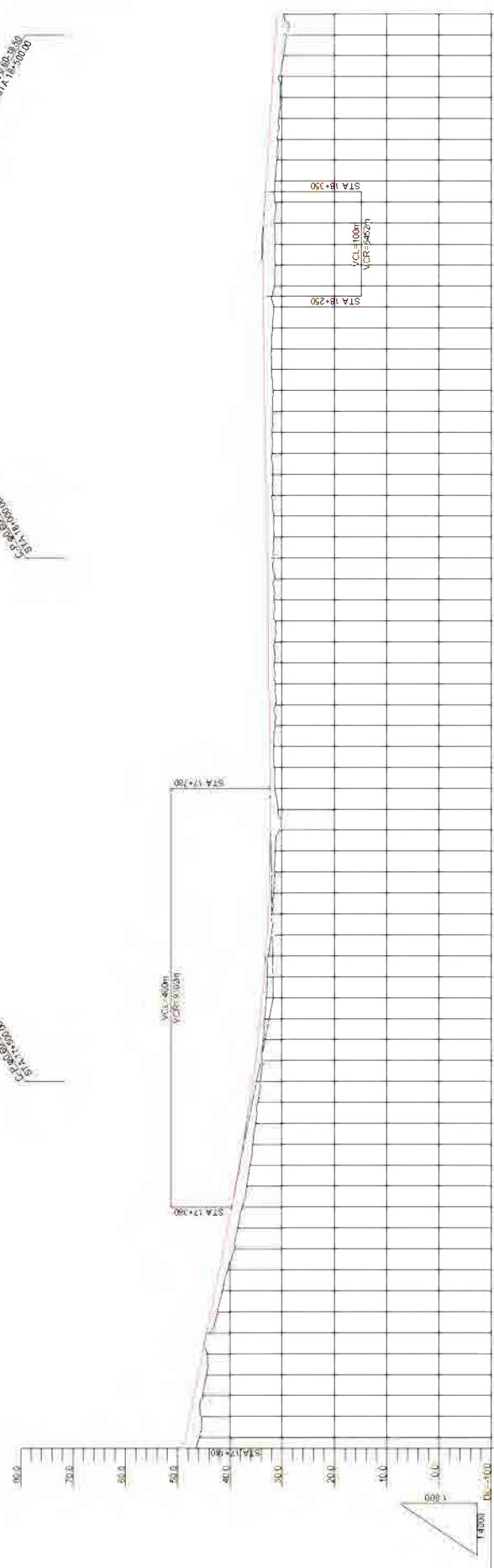


KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: PROFILE (1/3) MOMBASA SOUTHERN BYPASS (13/15)	Drawing No.	PR-13
				SCALE	H=1:4,000 V=1:800
				DATE	OCT. 2011

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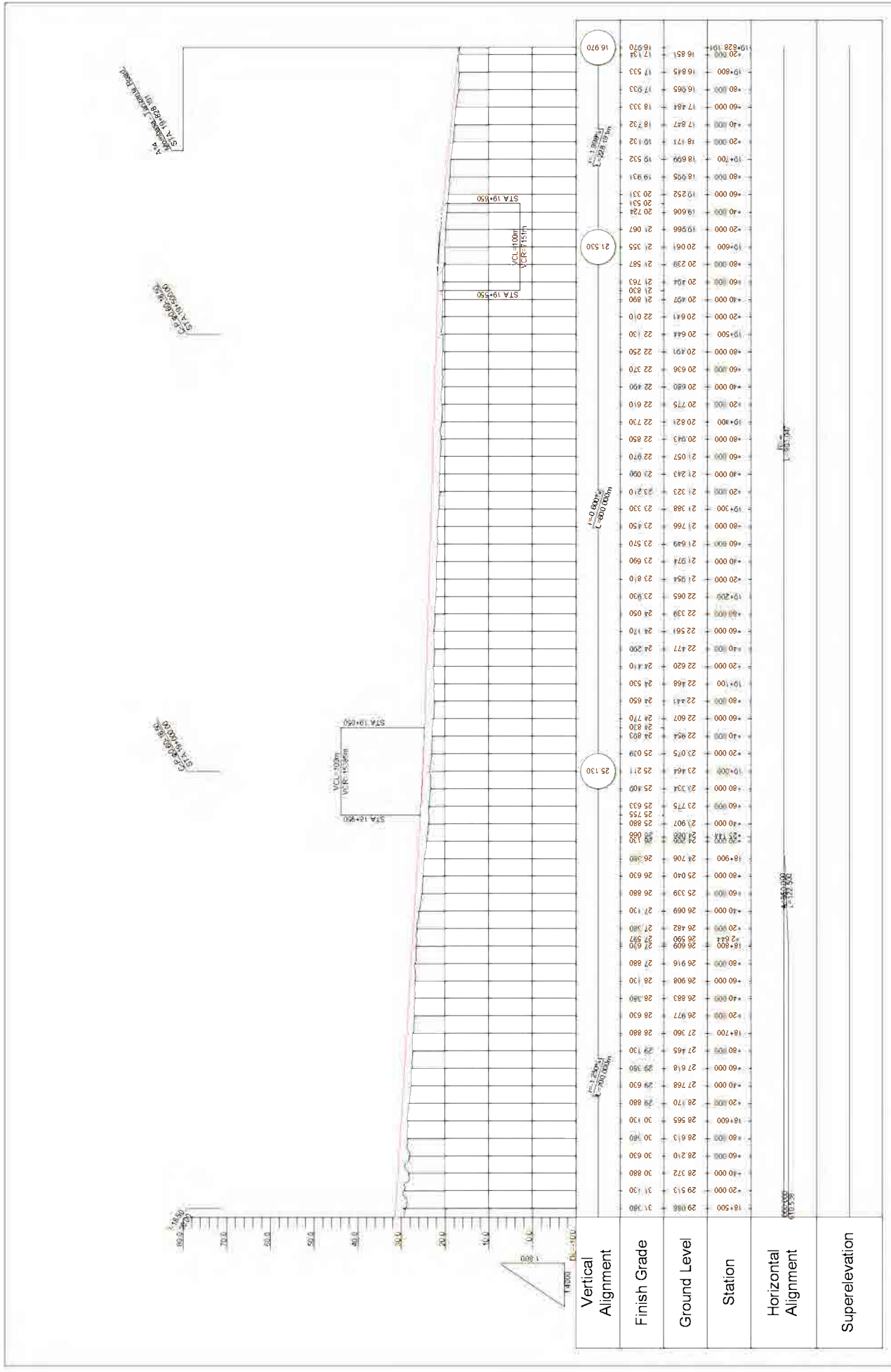
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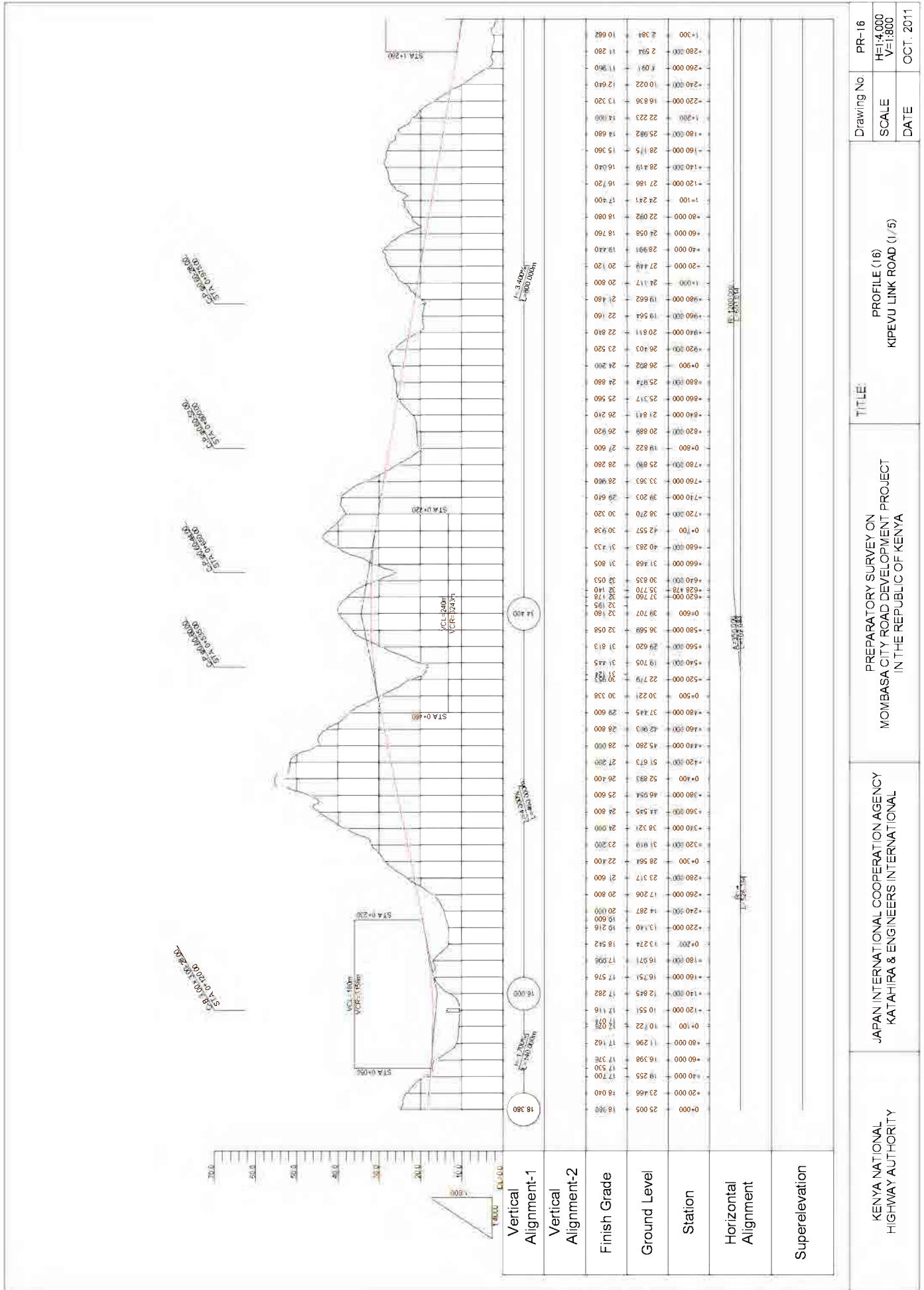


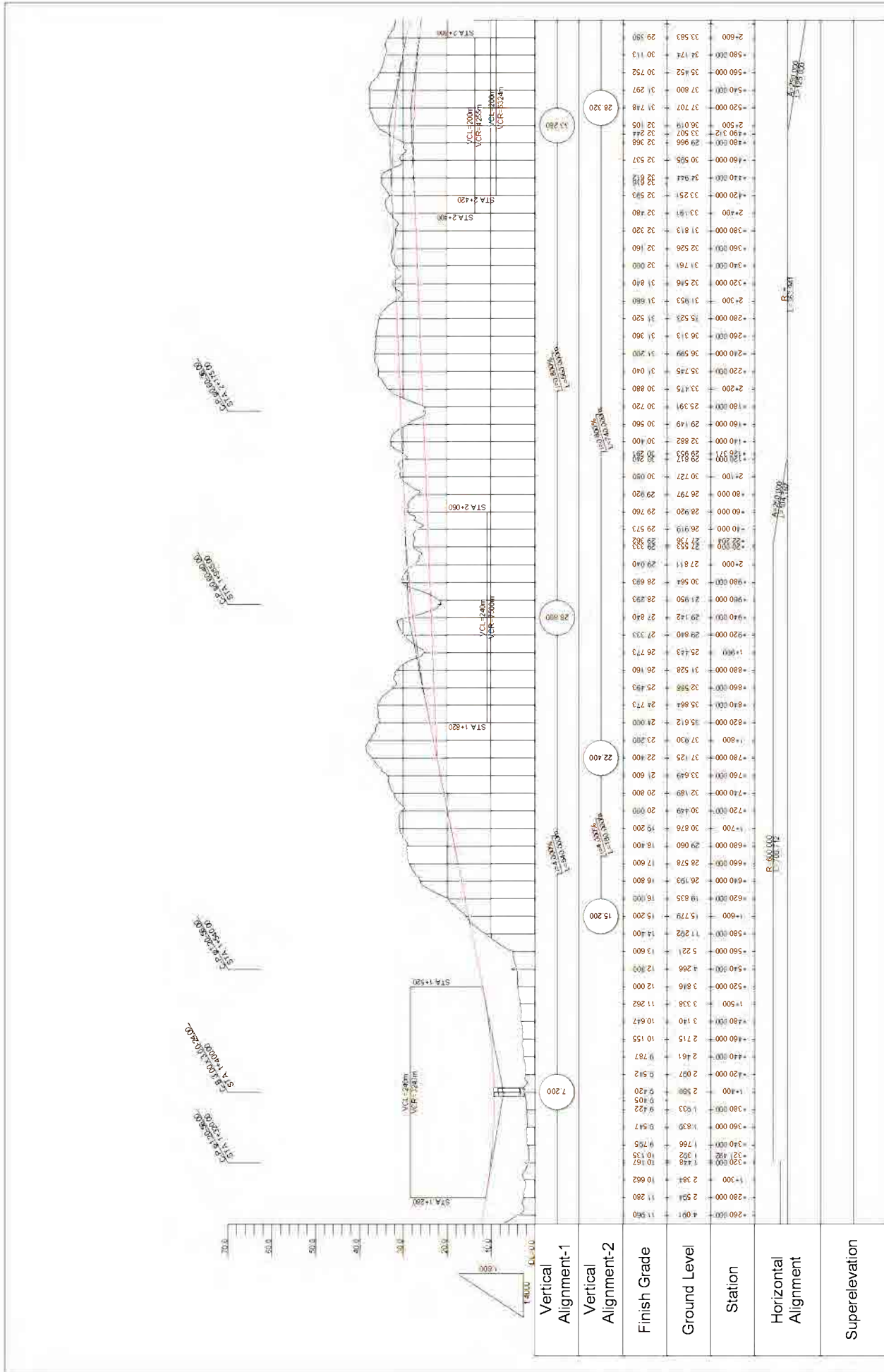
Vertical Alignment	Station	Ground Level	Finish Grade
	45.830		
	45.507		
	45.201		
	44.920		
	44.447		
	44.201		
	44.320		
	44.978		
	44.999		
	44.008		
	44.520		
	43.720		
	43.258		
	42.358		
	42.920		
	42.423		
	42.120		
	39.133		
	40.524		
	38.524		
	37.679		
	36.773		
	36.941		
	36.164		
	38.206		
	37.513		
	35.644		
	36.864		
	36.257		
	34.646		
	34.139		
	35.694		
	35.173		
	33.649		
	34.696		
	33.333		
	34.261		
	33.000		
	33.870		
	32.897		
	33.521		
	32.715		
	32.116		
	32.103		
	32.953		
	32.734		
	31.985		
	32.557		
	31.667		
	32.424		
	31.465		
	32.333		
	32.286		
	32.328		
	30.790		
	32.281		
	31.359		
	32.320		
	31.700		
	32.460		
	31.687		
	32.440		
	31.342		
	32.500		
	31.260		
	32.560		
	31.291		
	32.620		
	31.545		
	32.680		
	31.454		
	32.740		
	31.454		
	32.740		
	32.800		
	31.514		
	32.860		
	31.514		
	32.920		
	31.623		
	32.980		
	31.623		
	33.040		
	31.589		
	33.100		
	31.597		
	33.160		
	31.890		
	33.160		
	33.188		
	33.188		
	31.753		
	33.220		
	31.934		
	33.280		
	31.934		
	33.340		
	31.957		
	33.400		
	31.757		
	33.400		
	31.725		
	33.460		
	31.949		
	33.520		
	33.556		
	32.028		
	33.580		
	31.949		
	33.520		
	32.063		
	33.556		
	31.785		
	33.640		
	31.629		
	33.700		
	31.750		
	33.750		
	31.497		
	33.750		
	31.292		
	33.750		
	31.351		
	33.686		
	31.351		
	33.560		
	31.527		
	33.560		
	31.359		
	33.372		
	33.255		
	31.332		
	33.130		
	32.880		
	30.965		
	32.880		
	30.882		
	32.630		
	30.678		
	32.350		
	30.367		
	32.130		
	30.631		
	31.880		
	31.630		
	29.735		
	31.630		
	29.085		
	31.560		

KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	PR-14
			PROFILE (14) MOMBASA SOUTHERN BYPASS (14/15)	
			SCALE	H=1:4,000 V=1:800
			DATE	OCT. 2011

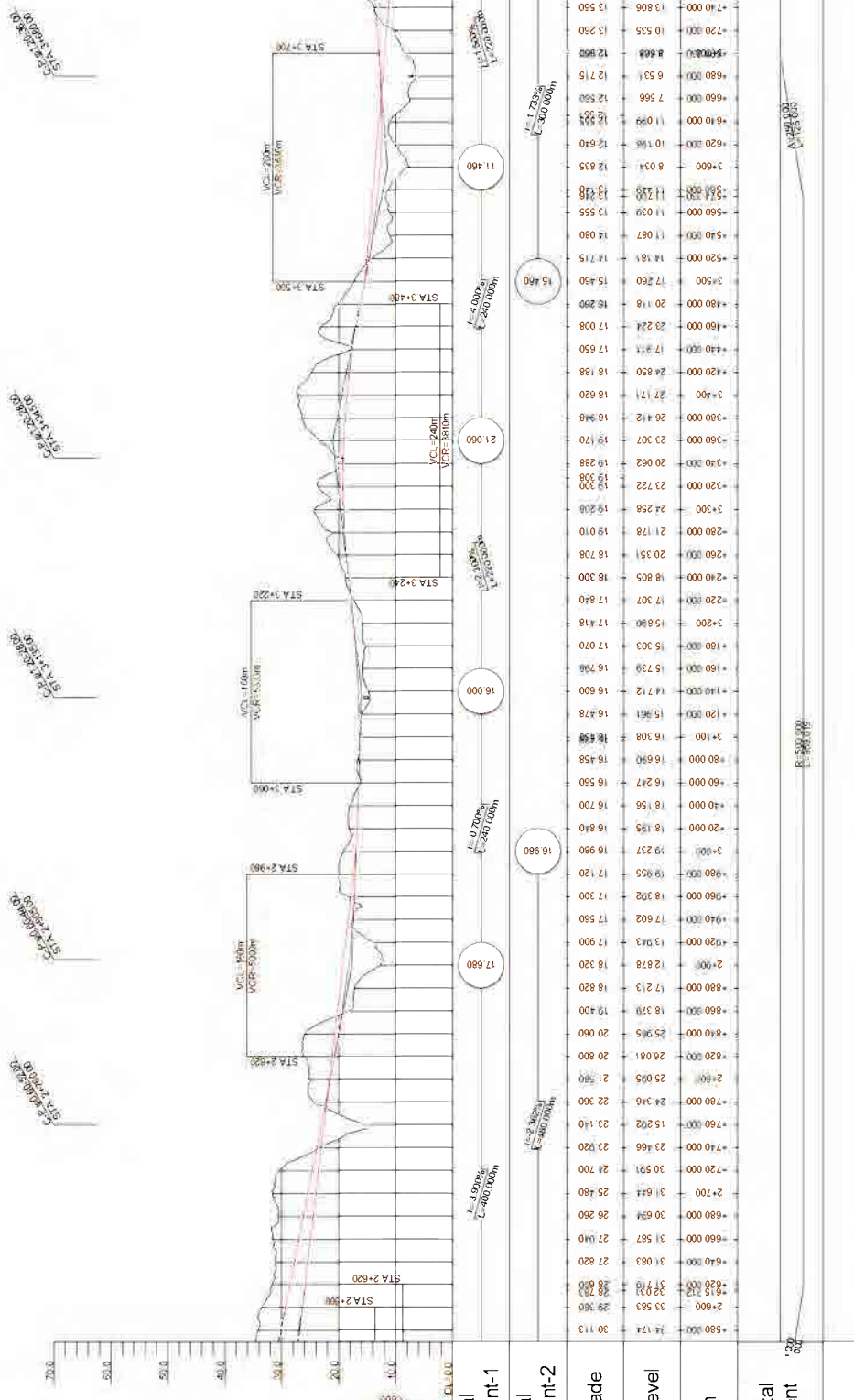


KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	PR-15
	SCALE		
TITLE: PROFILE (1/5) MOMBASA SOUTHERN BYPASS (15/15)		Drawing No	H=1:4,000 V=1:800
			DATE
			OCT. 2011



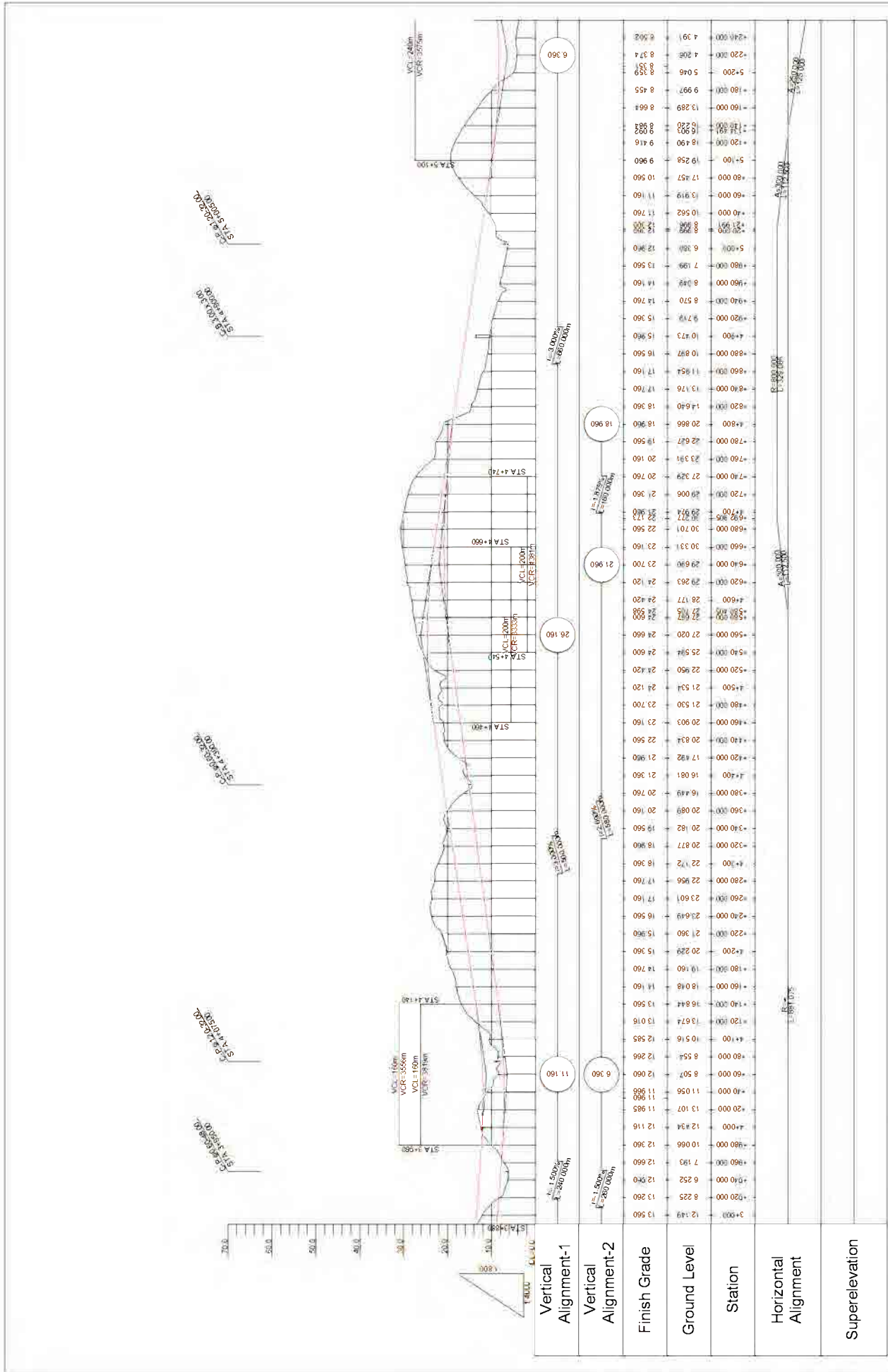


KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	DRAWING No PR-17	SCALE	H=1:4,000
				DATE	V=1:800

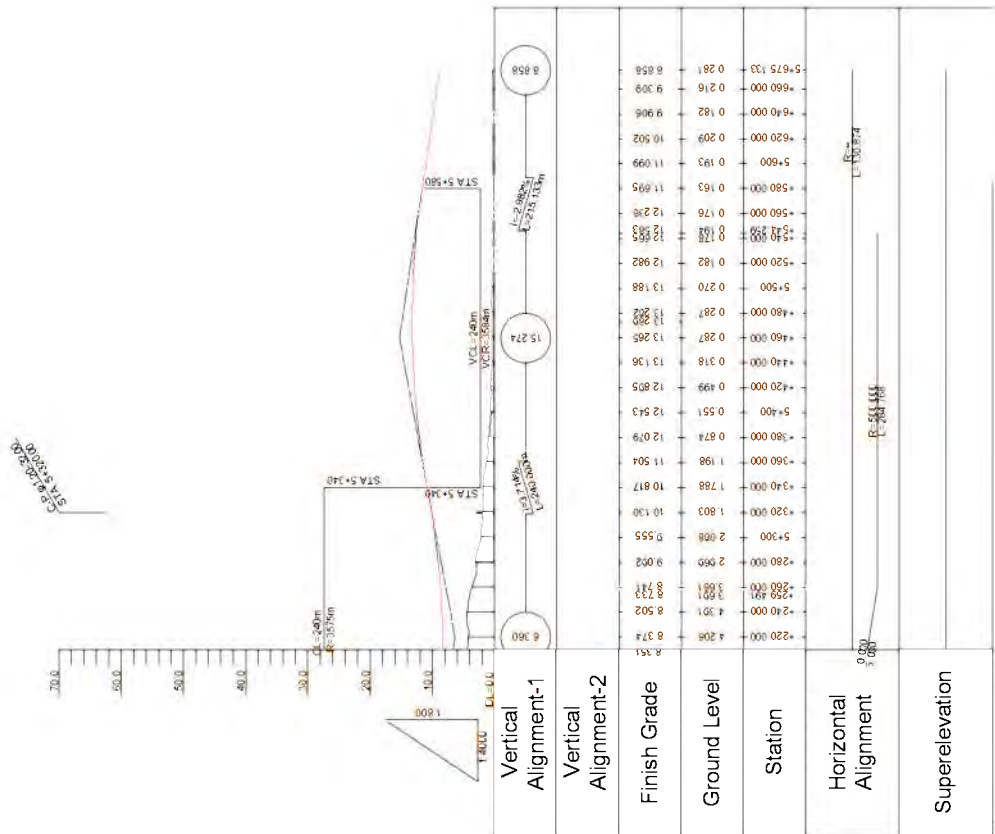


Station	Ground Level	Finish Grade
580.000	30.113	34.174
582.000	30.268	34.329
584.000	30.423	34.484
586.000	30.578	34.639
588.000	30.733	34.794
590.000	30.888	34.949
592.000	31.043	35.104
594.000	31.198	35.259
596.000	31.353	35.414
598.000	31.508	35.569
600.000	31.663	35.724
602.000	31.818	35.879
604.000	31.973	36.034
606.000	32.128	36.189
608.000	32.283	36.344
610.000	32.438	36.499
612.000	32.593	36.654
614.000	32.748	36.809
616.000	32.903	36.964
618.000	33.058	37.119
620.000	33.213	37.274
622.000	33.368	37.429
624.000	33.523	37.584
626.000	33.678	37.739
628.000	33.833	37.894
630.000	33.988	38.049
632.000	34.143	38.204
634.000	34.298	38.359
636.000	34.453	38.514
638.000	34.608	38.669
640.000	34.763	38.824
642.000	34.918	38.979
644.000	35.073	39.134
646.000	35.228	39.289
648.000	35.383	39.444
650.000	35.538	39.599
652.000	35.693	39.754
654.000	35.848	39.909
656.000	36.003	40.064
658.000	36.158	40.219
660.000	36.313	40.374
662.000	36.468	40.529
664.000	36.623	40.684
666.000	36.778	40.839
668.000	36.933	40.994
670.000	37.088	41.149
672.000	37.243	41.304
674.000	37.398	41.459
676.000	37.553	41.614
678.000	37.708	41.769
680.000	37.863	41.924
682.000	38.018	42.079
684.000	38.173	42.234
686.000	38.328	42.389
688.000	38.483	42.544
690.000	38.638	42.699
692.000	38.793	42.854
694.000	38.948	43.009
696.000	39.103	43.164
698.000	39.258	43.319
700.000	39.413	43.474
702.000	39.568	43.629
704.000	39.723	43.784
706.000	39.878	43.939
708.000	40.033	44.094
710.000	40.188	44.249
712.000	40.343	44.404
714.000	40.498	44.559
716.000	40.653	44.714
718.000	40.808	44.869
720.000	40.963	45.024
722.000	41.118	45.179
724.000	41.273	45.334
726.000	41.428	45.489
728.000	41.583	45.644
730.000	41.738	45.799
732.000	41.893	45.954
734.000	42.048	46.109
736.000	42.203	46.264
738.000	42.358	46.419
740.000	42.513	46.574
742.000	42.668	46.729
744.000	42.823	46.884
746.000	42.978	47.039
748.000	43.133	47.194
750.000	43.288	47.349
752.000	43.443	47.504
754.000	43.598	47.659
756.000	43.753	47.814
758.000	43.908	47.969
760.000	44.063	48.124
762.000	44.218	48.279
764.000	44.373	48.434
766.000	44.528	48.589
768.000	44.683	48.744
770.000	44.838	48.899
772.000	44.993	49.054
774.000	45.148	49.209
776.000	45.303	49.364
778.000	45.458	49.519
780.000	45.613	49.674
782.000	45.768	49.829
784.000	45.923	49.984
786.000	46.078	50.139
788.000	46.233	50.294
790.000	46.388	50.449
792.000	46.543	50.604
794.000	46.698	50.759
796.000	46.853	50.914
798.000	47.008	51.069
800.000	47.163	51.224
802.000	47.318	51.379
804.000	47.473	51.534
806.000	47.628	51.689
808.000	47.783	51.844
810.000	47.938	51.999
812.000	48.093	52.154
814.000	48.248	52.309
816.000	48.403	52.464
818.000	48.558	52.619
820.000	48.713	52.774
822.000	48.868	52.929
824.000	49.023	53.084
826.000	49.178	53.239
828.000	49.333	53.394
830.000	49.488	53.549
832.000	49.643	53.704
834.000	49.798	53.859
836.000	49.953	54.014
838.000	50.108	54.169
840.000	50.263	54.324
842.000	50.418	54.479
844.000	50.573	54.634
846.000	50.728	54.789
848.000	50.883	54.944
850.000	51.038	55.099
852.000	51.193	55.254
854.000	51.348	55.409
856.000	51.503	55.564
858.000	51.658	55.719
860.000	51.813	55.874
862.000	51.968	56.029
864.000	52.123	56.184
866.000	52.278	56.339
868.000	52.433	56.494
870.000	52.588	56.649
872.000	52.743	56.804
874.000	52.898	56.959
876.000	53.053	57.114
878.000	53.208	57.269
880.000	53.363	57.424
882.000	53.518	57.579
884.000	53.673	57.734
886.000	53.828	57.889
888.000	53.983	58.044
890.000	54.138	58.199
892.000	54.293	58.354
894.000	54.448	58.509
896.000	54.603	58.664
898.000	54.758	58.819
900.000	54.913	58.974
902.000	55.068	59.129
904.000	55.223	59.284
906.000	55.378	59.439
908.000	55.533	59.594
910.000	55.688	59.749
912.000	55.843	59.904
914.000	56.000	60.059
916.000	56.155	60.214
918.000	56.310	60.369
920.000	56.465	60.524
922.000	56.620	60.679
924.000	56.775	60.834
926.000	56.930	60.989
928.000	57.085	61.144
930.000	57.240	61.299
932.000	57.395	61.454
934.000	57.550	61.609
936.000	57.705	61.764
938.000	57.860	61.919
940.000	58.015	62.074
942.000	58.170	62.229
944.000	58.325	62.384
946.000	58.480	62.539
948.000	58.635	62.694
950.000	58.790	62.849
952.000	58.945	63.004
954.000	59.100	63.159
956.000	59.255	63.314
958.000	59.410	63.469
960.000	59.565	63.624
962.000	59.720	63.779
964.000	59.875	63.934
966.000	60.030	64.089
968.000	60.185	64.244
970.000	60.340	64.399
972.000	60.495	64.554
974.000	60.650	64.709
976.000	60.805	64.864
978.000	60.960	65.019
980.000	61.115	65.174
982.000	61.270	65.329
984.000	61.425	65.484
986.000	61.580	65.639
988.000	61.735	65.794
990.000	61.890	65.949
992.000	62.045	66.104
994.000	62.200	66.259
996.000	62.355	66.414
998.000	62.510	66.569
1000.000	62.665	66.724

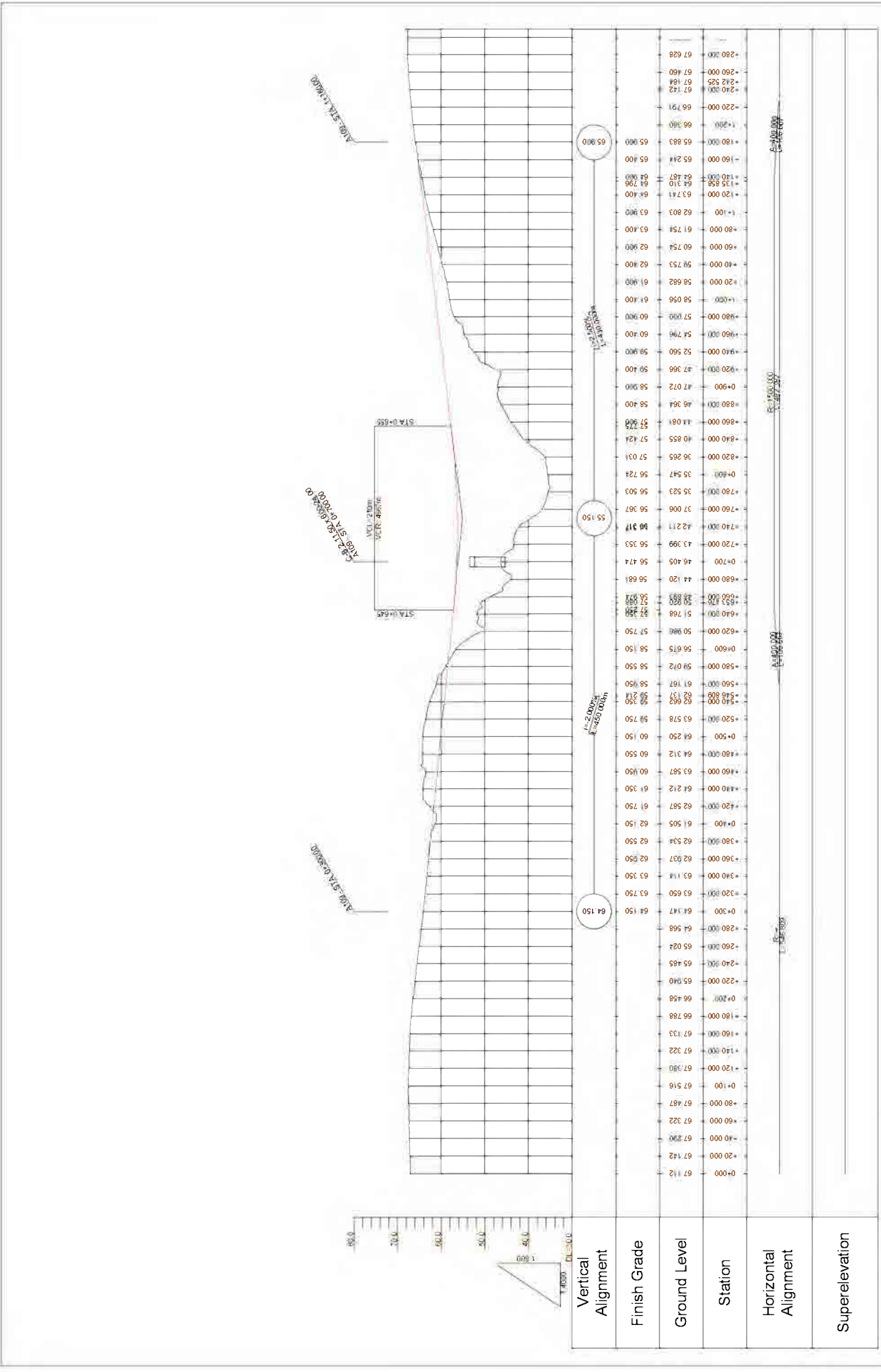
KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	PROFILE (18) KIPEVU LINK ROAD (3/5)	Drawing No	PR-18
			SCALE	H=1:4,000 V=1:800	DATE	OCT. 2011



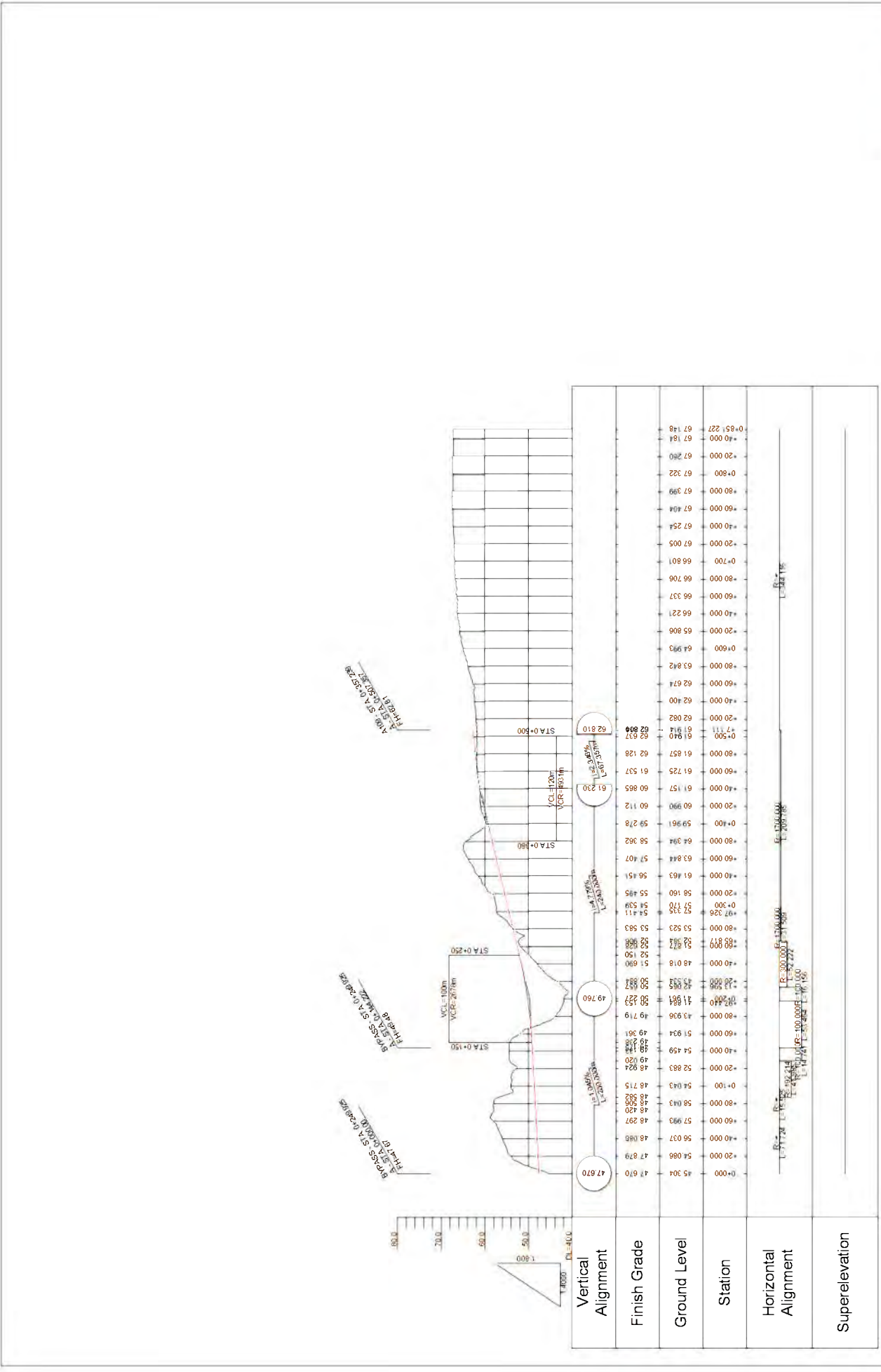
KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	PROFILE (19) KIPEVU LINK ROAD (4/5)	PR-19
			SCALE	H=1:4,000 V=1:800	
			DATE	OCT. 2011	



Kenya National Highway Authority	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	Drawing No PR-20	H=1:4,000 V=1:800	OCT. 2011



KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: PREPARATORY SURVEY ON A 109 NAIROBI-MOMBASA ROAD	Drawing No	PR-21
				SCALE	H=1:4,000 V=1:800
			DATE	OCT. 2011	

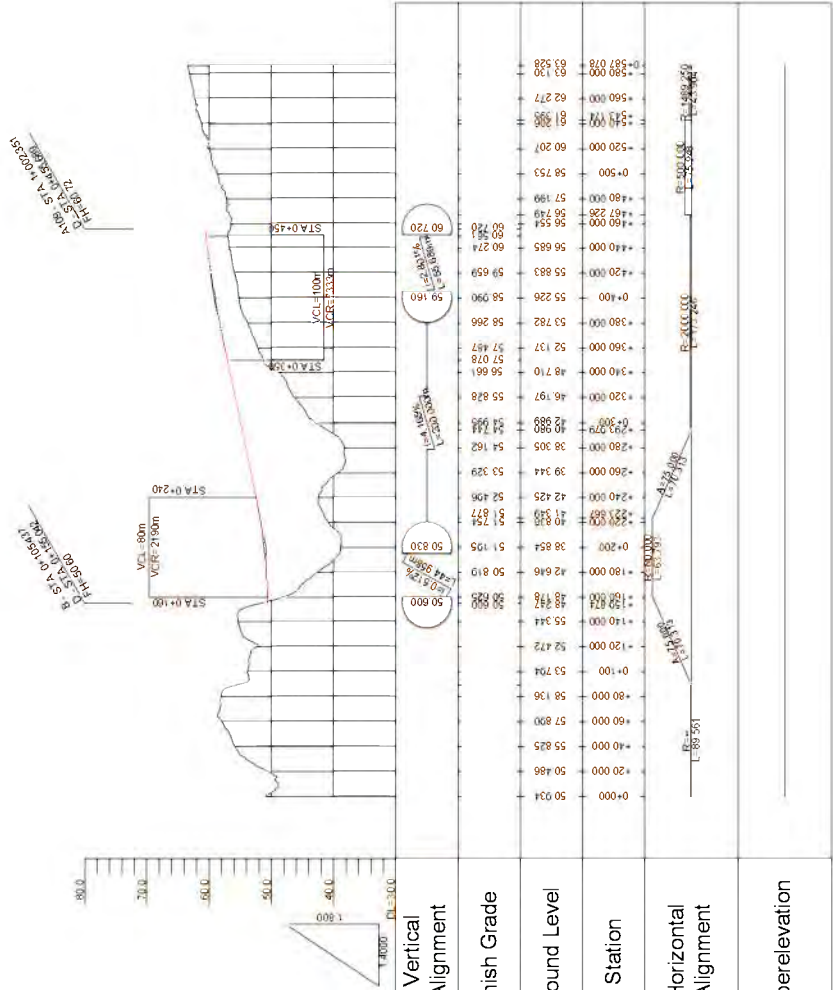


KENYA NATIONAL HIGHWAY AUTHORITY			JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	DRAWING No PR-22 SCALE H=1:4,000 V=1:800 DATE OCT. 2011	
TITLE:					PROFILE (22)	
					A 109 NAIROBI-MOMBASA ROAD JCT. A	
Vertical Alignment						
Finish Grade						
Ground Level						
Station						
Horizontal Alignment						
Superlevation						

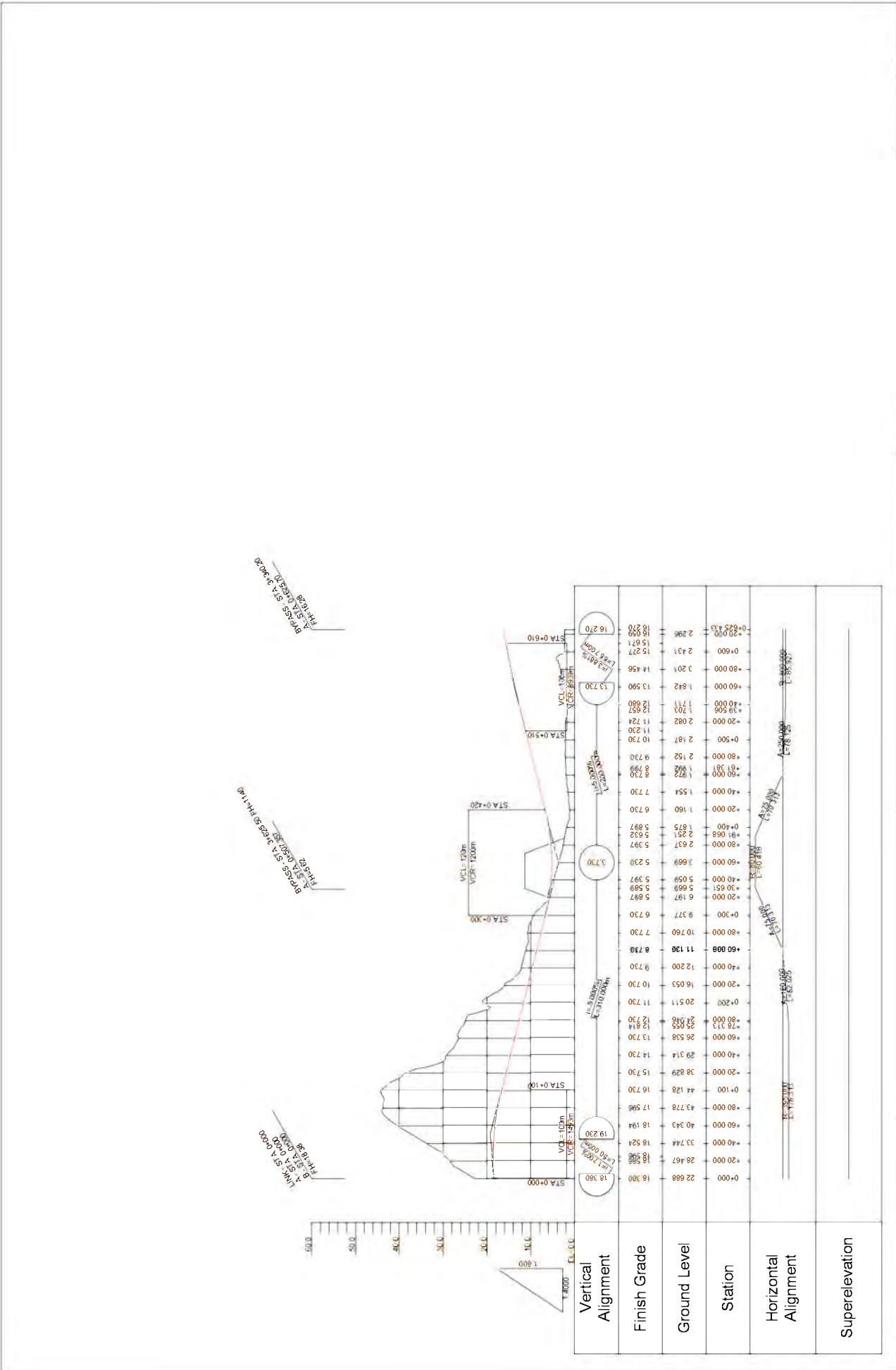


Vertical Alignment	Finish Grade	Ground Level	Station	Horizontal Alignment	Superelevation
50.000	50.500	50.400	50.000	L=165.100	
51.100	51.200	51.100	50.000	L=162.221	
50.330	50.700	50.600	50.000		
52.300	52.200	52.100	50.000		
52.300	52.700	52.600	50.000		
52.300	53.200	53.100	50.000		
52.300	53.700	53.600	50.000		
52.300	54.200	54.100	50.000		
52.300	54.700	54.600	50.000		
52.300	55.200	55.100	50.000		
52.300	55.700	55.600	50.000		
52.300	56.200	56.100	50.000		
52.300	56.700	56.600	50.000		
52.300	57.200	57.100	50.000		
52.300	57.700	57.600	50.000		
52.300	58.200	58.100	50.000		
52.300	58.700	58.600	50.000		
52.300	59.200	59.100	50.000		
52.300	59.700	59.600	50.000		
52.300	60.200	60.100	50.000		
52.300	60.700	60.600	50.000		
52.300	61.200	61.100	50.000		
52.300	61.700	61.600	50.000		
52.300	62.200	62.100	50.000		
52.300	62.700	62.600	50.000		
52.300	63.200	63.100	50.000		
52.300	63.700	63.600	50.000		
52.300	64.200	64.100	50.000		
52.300	64.700	64.600	50.000		
52.300	65.200	65.100	50.000		
52.300	65.700	65.600	50.000		
52.300	66.200	66.100	50.000		
52.300	66.700	66.600	50.000		
52.300	67.200	67.100	50.000		
52.300	67.700	67.600	50.000		
52.300	68.200	68.100	50.000		
52.300	68.700	68.600	50.000		
52.300	69.200	69.100	50.000		
52.300	69.700	69.600	50.000		
52.300	70.200	70.100	50.000		
52.300	70.700	70.600	50.000		
52.300	71.200	71.100	50.000		

KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	DRAWING No	PR-23
			PROFILE (23) A109 NAIROBI-MOMBASA ROAD JCT. B		SCALE H=1:4,000 V=1:800
			DATE		OCT. 2011



KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	
			PROFILE (25) A109 NAIROBI-MOMBASA ROAD JCT. D	
		Drawing No	PR-25	
		SCALE	H=1:4000 V=1:800	
		DATE	OCT. 2011	



KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE: PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	Drawing No	PR-26
			SCALE	H=1:4,000 V=1:800
			DATE	OCT. 2011

LINK - STA 0+000
 H=18.380
 B=51.2 (2.000)
 FH=3.2 (0.150)

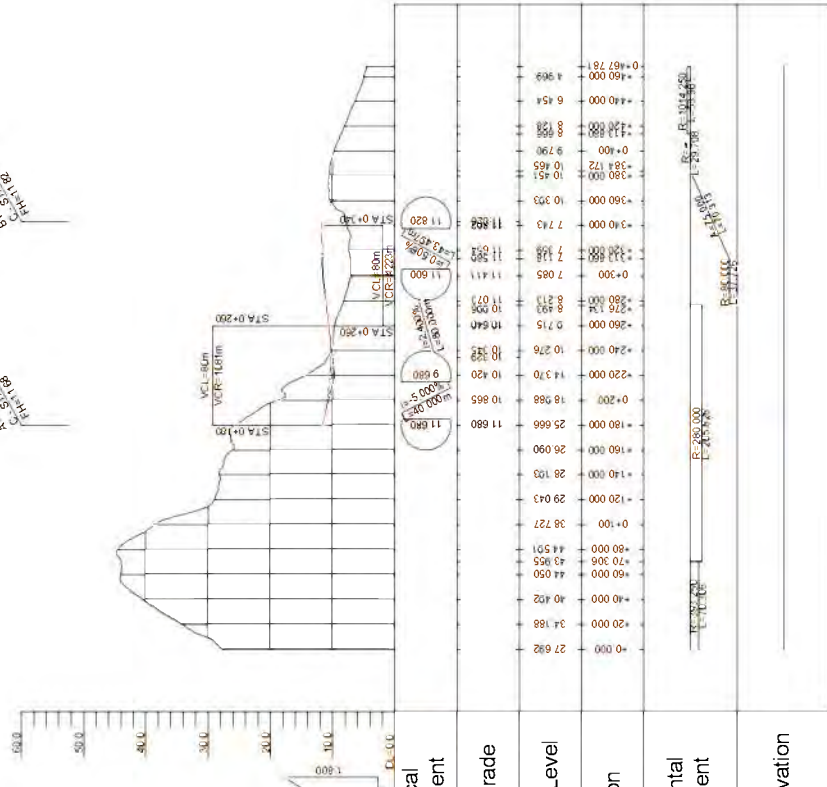
LINK - STA 0+180
 H=18.380
 B=51.2 (2.000)
 FH=3.2 (0.150)

LINK - STA 0+298
 H=18.380
 B=51.2 (2.000)
 FH=3.2 (0.150)



Vertical Alignment	Finish Grade	Ground Level	Station	Horizontal Alignment	Superelevation
18.380	18.380	18.380	0+000	1:300.000	
19.230	19.230	19.230	0+100	1:300.000	
10.306	10.306	10.306	0+298	1:300.000	
11.660	11.660	11.660	0+306	1:300.000	
11.660	11.660	11.660	0+400	1:300.000	
11.660	11.660	11.660	0+500	1:300.000	
11.660	11.660	11.660	0+600	1:300.000	
11.660	11.660	11.660	0+700	1:300.000	
11.660	11.660	11.660	0+800	1:300.000	
11.660	11.660	11.660	0+900	1:300.000	
11.660	11.660	11.660	0+1000	1:300.000	
11.660	11.660	11.660	0+1100	1:300.000	
11.660	11.660	11.660	0+1200	1:300.000	
11.660	11.660	11.660	0+1300	1:300.000	
11.660	11.660	11.660	0+1400	1:300.000	
11.660	11.660	11.660	0+1500	1:300.000	
11.660	11.660	11.660	0+1600	1:300.000	
11.660	11.660	11.660	0+1700	1:300.000	
11.660	11.660	11.660	0+1800	1:300.000	
11.660	11.660	11.660	0+1900	1:300.000	
11.660	11.660	11.660	0+2000	1:300.000	
11.660	11.660	11.660	0+2100	1:300.000	
11.660	11.660	11.660	0+2200	1:300.000	
11.660	11.660	11.660	0+2300	1:300.000	
11.660	11.660	11.660	0+2400	1:300.000	
11.660	11.660	11.660	0+2500	1:300.000	
11.660	11.660	11.660	0+2600	1:300.000	
11.660	11.660	11.660	0+2700	1:300.000	
11.660	11.660	11.660	0+2800	1:300.000	
11.660	11.660	11.660	0+2900	1:300.000	
11.660	11.660	11.660	0+3000	1:300.000	
11.660	11.660	11.660	0+3100	1:300.000	
11.660	11.660	11.660	0+3200	1:300.000	
11.660	11.660	11.660	0+3300	1:300.000	
11.660	11.660	11.660	0+3400	1:300.000	
11.660	11.660	11.660	0+3500	1:300.000	
11.660	11.660	11.660	0+3600	1:300.000	
11.660	11.660	11.660	0+3700	1:300.000	
11.660	11.660	11.660	0+3800	1:300.000	
11.660	11.660	11.660	0+3900	1:300.000	
11.660	11.660	11.660	0+4000	1:300.000	
11.660	11.660	11.660	0+4100	1:300.000	
11.660	11.660	11.660	0+4200	1:300.000	
11.660	11.660	11.660	0+4300	1:300.000	
11.660	11.660	11.660	0+4400	1:300.000	
11.660	11.660	11.660	0+4500	1:300.000	
11.660	11.660	11.660	0+4600	1:300.000	
11.660	11.660	11.660	0+4700	1:300.000	
11.660	11.660	11.660	0+4800	1:300.000	
11.660	11.660	11.660	0+4900	1:300.000	
11.660	11.660	11.660	0+5000	1:300.000	
11.660	11.660	11.660	0+5100	1:300.000	
11.660	11.660	11.660	0+5200	1:300.000	
11.660	11.660	11.660	0+5300	1:300.000	
11.660	11.660	11.660	0+5400	1:300.000	
11.660	11.660	11.660	0+5500	1:300.000	
11.660	11.660	11.660	0+5600	1:300.000	
11.660	11.660	11.660	0+5700	1:300.000	
11.660	11.660	11.660	0+5800	1:300.000	
11.660	11.660	11.660	0+5900	1:300.000	
11.660	11.660	11.660	0+6000	1:300.000	
11.660	11.660	11.660	0+6100	1:300.000	
11.660	11.660	11.660	0+6200	1:300.000	
11.660	11.660	11.660	0+6300	1:300.000	
11.660	11.660	11.660	0+6400	1:300.000	
11.660	11.660	11.660	0+6500	1:300.000	
11.660	11.660	11.660	0+6600	1:300.000	
11.660	11.660	11.660	0+6700	1:300.000	
11.660	11.660	11.660	0+6800	1:300.000	
11.660	11.660	11.660	0+6900	1:300.000	
11.660	11.660	11.660	0+7000	1:300.000	
11.660	11.660	11.660	0+7100	1:300.000	
11.660	11.660	11.660	0+7200	1:300.000	
11.660	11.660	11.660	0+7300	1:300.000	
11.660	11.660	11.660	0+7400	1:300.000	
11.660	11.660	11.660	0+7500	1:300.000	
11.660	11.660	11.660	0+7600	1:300.000	
11.660	11.660	11.660	0+7700	1:300.000	
11.660	11.660	11.660	0+7800	1:300.000	
11.660	11.660	11.660	0+7900	1:300.000	
11.660	11.660	11.660	0+8000	1:300.000	
11.660	11.660	11.660	0+8100	1:300.000	
11.660	11.660	11.660	0+8200	1:300.000	
11.660	11.660	11.660	0+8300	1:300.000	
11.660	11.660	11.660	0+8400	1:300.000	
11.660	11.660	11.660	0+8500	1:300.000	
11.660	11.660	11.660	0+8600	1:300.000	
11.660	11.660	11.660	0+8700	1:300.000	
11.660	11.660	11.660	0+8800	1:300.000	
11.660	11.660	11.660	0+8900	1:300.000	
11.660	11.660	11.660	0+9000	1:300.000	
11.660	11.660	11.660	0+9100	1:300.000	
11.660	11.660	11.660	0+9200	1:300.000	
11.660	11.660	11.660	0+9300	1:300.000	
11.660	11.660	11.660	0+9400	1:300.000	
11.660	11.660	11.660	0+9500	1:300.000	
11.660	11.660	11.660	0+9600	1:300.000	
11.660	11.660	11.660	0+9700	1:300.000	
11.660	11.660	11.660	0+9800	1:300.000	
11.660	11.660	11.660	0+9900	1:300.000	
11.660	11.660	11.660	0+10000	1:300.000	

KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: PROFILE (27) KIPEVU LINK ROAD JCT. B	Drawing No	PR-27
				SCALE	H=1:4,000 V=1:800
				DATE	OCT. 2011



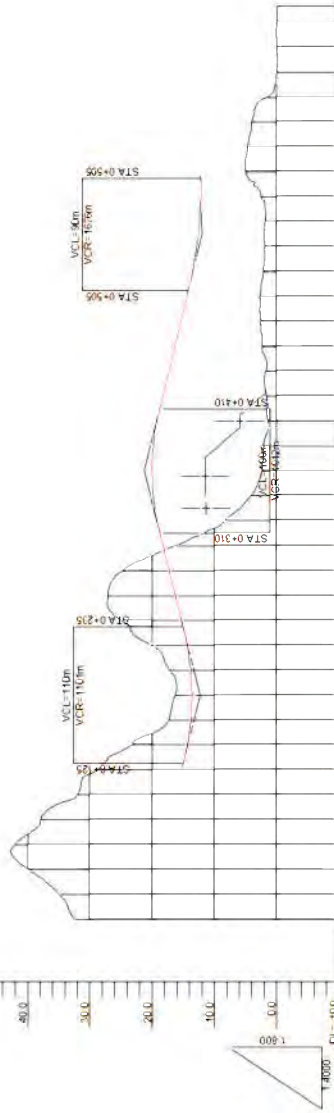
Vertical Alignment	Finish Grade	Ground Level	Station	Horizontal Alignment	Superelevation
11.680	27.692	27.692	27 692		
11.680	28.090	28.090	28 090		
11.680	28.103	28.103	28 103		
11.680	28.043	28.043	28 043		
11.680	29.043	29.043	29 043		
11.680	38.727	38.727	38 727		
11.680	44.501	44.501	44 501		
11.680	44.050	44.050	44 050		
11.680	40.492	40.492	40 492		
11.680	34.188	34.188	34 188		
11.680	27.692	27.692	27 692		
11.680	25.666	25.666	25 666		
11.680	18.968	18.968	18 968		
11.680	10.420	10.420	10 420		
11.680	14.370	14.370	14 370		
11.680	10.276	10.276	10 276		
11.680	24.000	24.000	24 000		
11.680	9.715	9.715	9 715		
11.680	26.640	26.640	26 640		
11.680	10.906	10.906	10 906		
11.680	8.493	8.493	8 493		
11.680	11.077	11.077	11 077		
11.680	7.085	7.085	7 085		
11.680	11.411	11.411	11 411		
11.680	7.158	7.158	7 158		
11.680	11.552	11.552	11 552		
11.680	34.000	34.000	34 000		
11.680	11.828	11.828	11 828		
11.680	10.303	10.303	10 303		
11.680	38.000	38.000	38 000		
11.680	10.451	10.451	10 451		
11.680	38.172	38.172	38 172		
11.680	9.790	9.790	9 790		
11.680	8.000	8.000	8 000		
11.680	41.888	41.888	41 888		
11.680	6.454	6.454	6 454		
11.680	44.000	44.000	44 000		
11.680	4.969	4.969	4 969		

KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: PROFILE (28) KIPEVU LINK ROAD JCT. C	Drawing No	PR-28
				SCALE	H=1:4,000 V=1:800
				DATE	OCT. 2011

BENCH STA 27894
 FH=22.0
 H=0.25

BENCH A-1492
 FH=11.6
 H=0.25

BENCH B STA 19122
 FH=5.4
 H=0.12

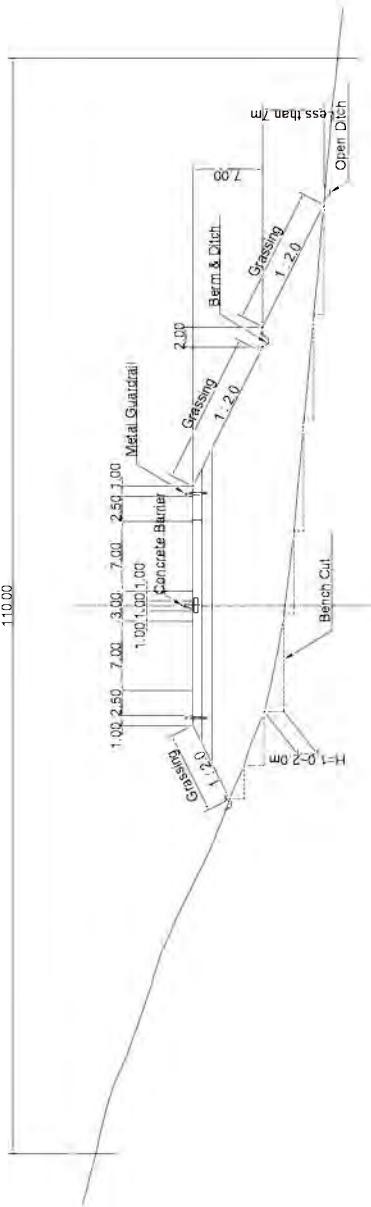


Station	Ground Level	Finish Grade	Vertical Alignment
0+000	32.347	32.347	
0+100	31.993	28.802	
0+200	37.807	23.361	
0+300	42.148	14.380	
0+400	39.761	14.385	
0+500	37.807	14.385	
0+600	37.807	14.385	
0+700	37.807	14.385	
0+800	37.807	14.385	
0+900	37.807	14.385	
1+000	37.807	14.385	
1+100	37.807	14.385	
1+200	37.807	14.385	
1+300	37.807	14.385	
1+400	37.807	14.385	
1+500	37.807	14.385	
1+600	37.807	14.385	
1+700	37.807	14.385	
1+800	37.807	14.385	
1+900	37.807	14.385	
2+000	37.807	14.385	
2+100	37.807	14.385	
2+200	37.807	14.385	
2+300	37.807	14.385	
2+400	37.807	14.385	
2+500	37.807	14.385	
2+600	37.807	14.385	
2+700	37.807	14.385	
2+800	37.807	14.385	
2+900	37.807	14.385	
3+000	37.807	14.385	
3+100	37.807	14.385	
3+200	37.807	14.385	
3+300	37.807	14.385	
3+400	37.807	14.385	
3+500	37.807	14.385	
3+600	37.807	14.385	
3+700	37.807	14.385	
3+800	37.807	14.385	
3+900	37.807	14.385	
4+000	37.807	14.385	
4+100	37.807	14.385	
4+200	37.807	14.385	
4+300	37.807	14.385	
4+400	37.807	14.385	
4+500	37.807	14.385	
4+600	37.807	14.385	
4+700	37.807	14.385	
4+800	37.807	14.385	
4+900	37.807	14.385	
5+000	37.807	14.385	
5+100	37.807	14.385	
5+200	37.807	14.385	
5+300	37.807	14.385	
5+400	37.807	14.385	
5+500	37.807	14.385	
5+600	37.807	14.385	
5+700	37.807	14.385	
5+800	37.807	14.385	
5+900	37.807	14.385	
6+000	37.807	14.385	
6+100	37.807	14.385	
6+200	37.807	14.385	
6+300	37.807	14.385	
6+400	37.807	14.385	
6+500	37.807	14.385	
6+600	37.807	14.385	
6+700	37.807	14.385	
6+800	37.807	14.385	
6+900	37.807	14.385	
7+000	37.807	14.385	
7+100	37.807	14.385	
7+200	37.807	14.385	
7+300	37.807	14.385	
7+400	37.807	14.385	
7+500	37.807	14.385	
7+600	37.807	14.385	
7+700	37.807	14.385	
7+800	37.807	14.385	
7+900	37.807	14.385	
8+000	37.807	14.385	
8+100	37.807	14.385	
8+200	37.807	14.385	
8+300	37.807	14.385	
8+400	37.807	14.385	
8+500	37.807	14.385	
8+600	37.807	14.385	
8+700	37.807	14.385	
8+800	37.807	14.385	
8+900	37.807	14.385	
9+000	37.807	14.385	
9+100	37.807	14.385	
9+200	37.807	14.385	
9+300	37.807	14.385	
9+400	37.807	14.385	
9+500	37.807	14.385	
9+600	37.807	14.385	
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9+800	37.807	14.385	
9+900	37.807	14.385	
10+000	37.807	14.385	

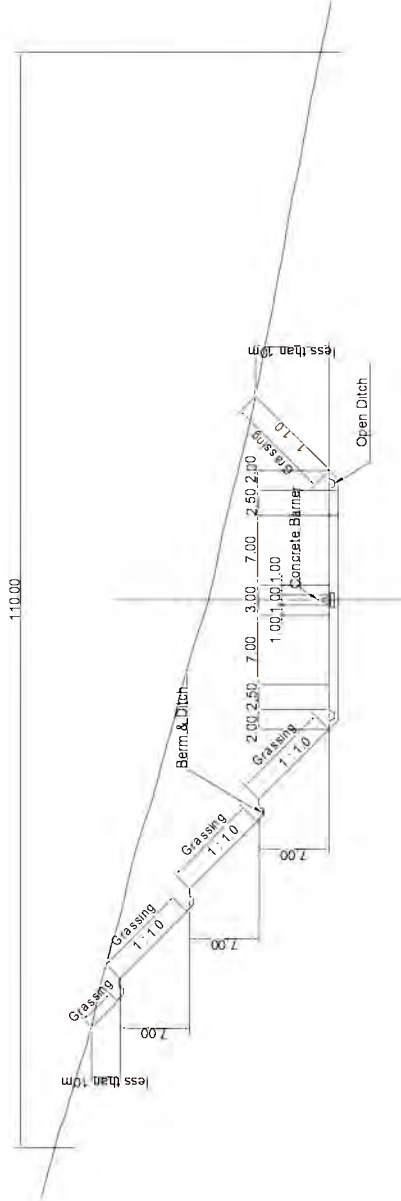
KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	Drawing No	PR-29
				SCALE	H=1:4,000 V=1:800
				DATE	OCT. 2011

TYPICAL CROSS SECTION (1)
SEC. 1&2 (MIRITINI JCT. -MWACHE JCT. -KIPEVU LINK ROAD)

Embankment Section



Cut Section



KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

PREPARATORY SURVEY ON
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IN THE REPUBLIC OF KENYA

TITLE: TYPICAL CROSS SECTION (1)
SEC. 1&2
(MIRITINI JCT. -MWACHE JCT. -KIPEVU LINK ROAD)

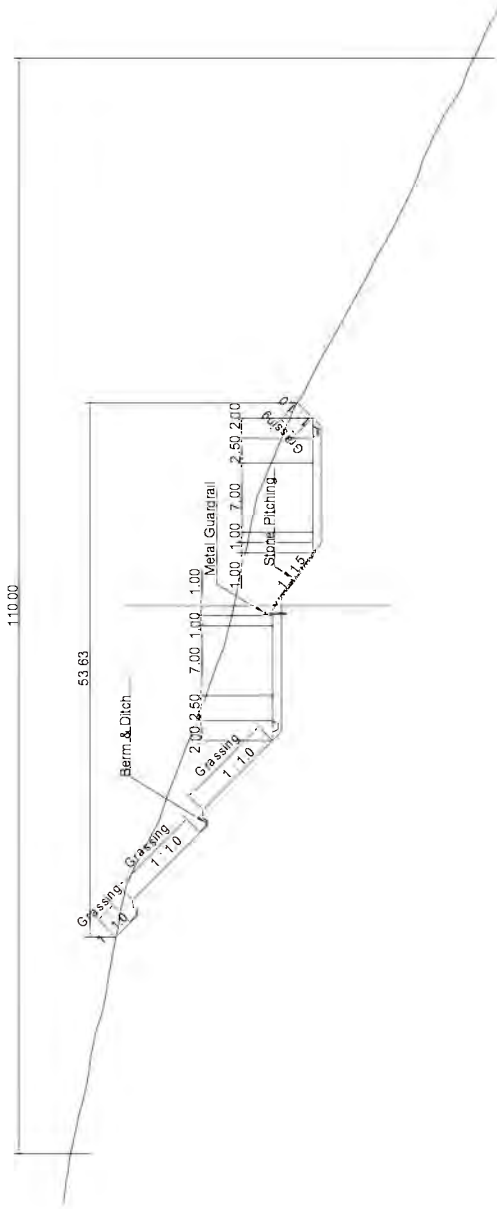
Drawing No TS-1

SCALE 1/50

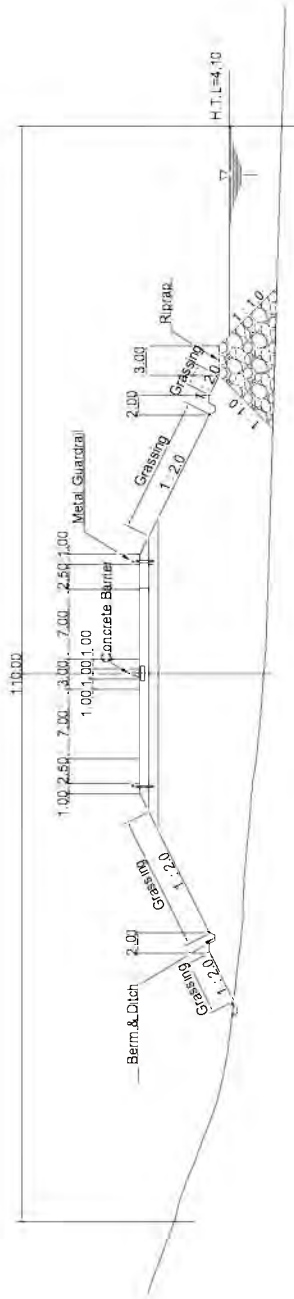
DATE OCT. 2011

TYPICAL CROSS SECTION (2)
 SEC. 1&2 (MIRITINI JCT. -MWACHE JCT. -KIPEVU LINK ROAD)

Grade Separate Section



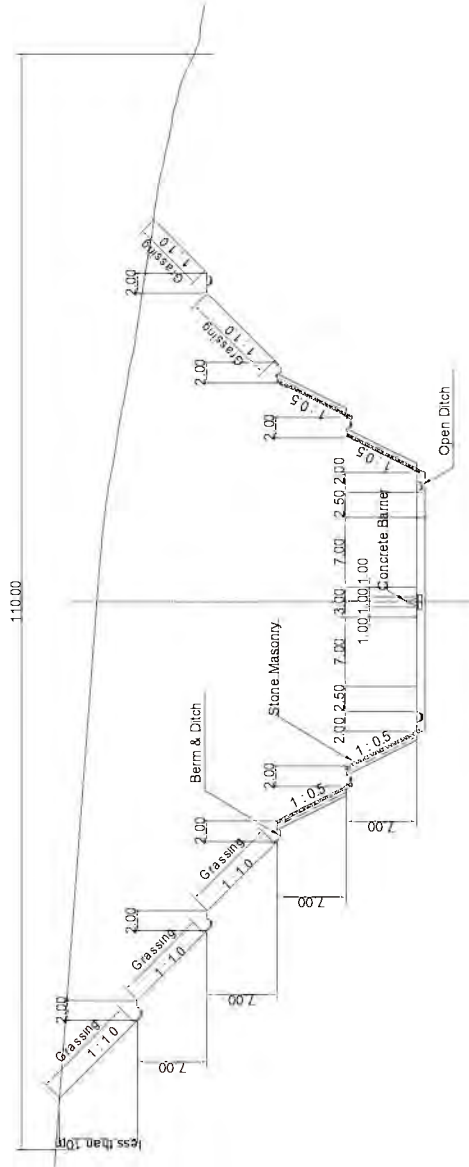
Embankment Section (Sea Side)



KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: TYPICAL CROSS SECTION (2) SEC. 1&2 (MIRITINI JCT. -MWACHE JCT. -KIPEVU LINK ROAD)	Drawing No	TS-2
				SCALE	1/50
				DATE	OCT. 2011

TYPICAL CROSS SECTION (3)
 SEC. 1&2 (MIRITINI JCT. -MWACHE JCT. -KIPEVU LINK ROAD)

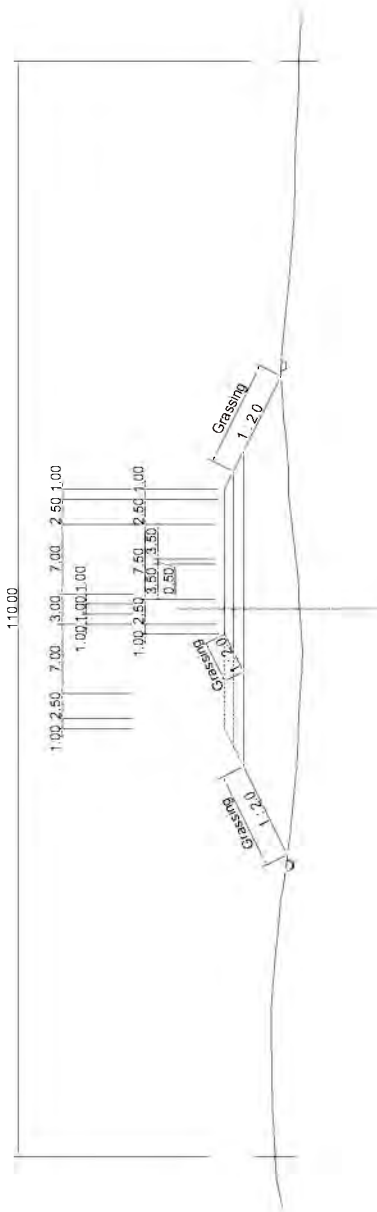
Deep Cut Section



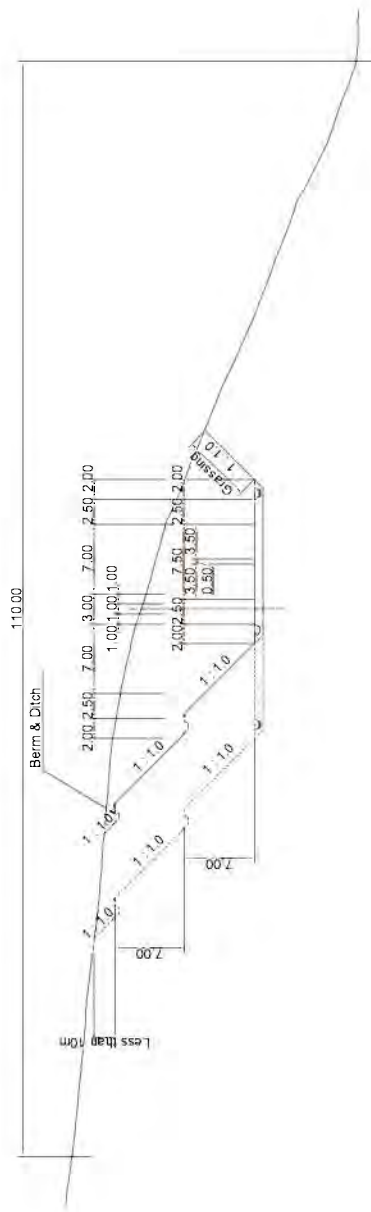
KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: TYPICAL CROSS SECTION (3) SEC. 1&2 (MIRITINI JCT. -MWACHE JCT. -KIPEVU LINK ROAD)	Drawing No	TS-3
				SCALE	1/50
				DATE	OCT. 2011

TYPICAL CROSS SECTION (4)
 SEC. 3&4 (MWACHE BR. -MTEZA BR. - KIBUNDANI JCT.)

Embankment Section



Cut Section



KENYA NATIONAL
 HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
 KATAHIRA & ENGINEERS INTERNATIONAL

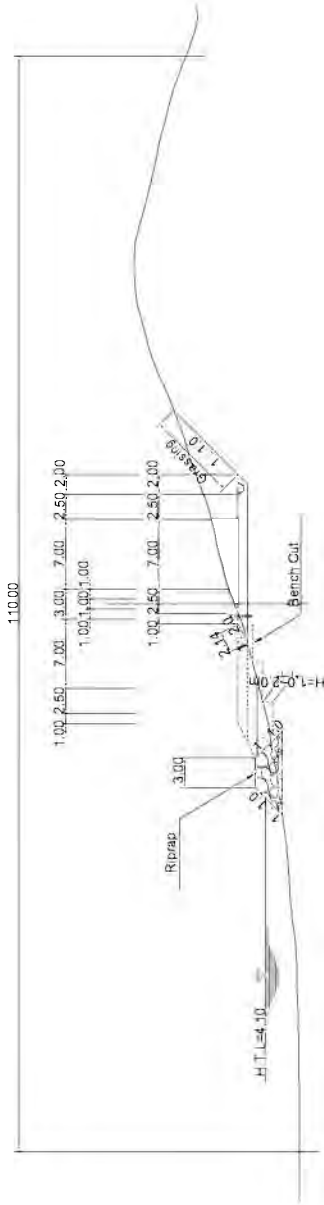
PREPARATORY SURVEY ON
 MOMBASA CITY ROAD DEVELOPMENT PROJECT
 IN THE REPUBLIC OF KENYA

TITLE: TYPICAL CROSS SECTION (4)
 SEC. 3&4
 (MWACHE BR. -MTEZA BR. - KIBUNDANI JCT.)

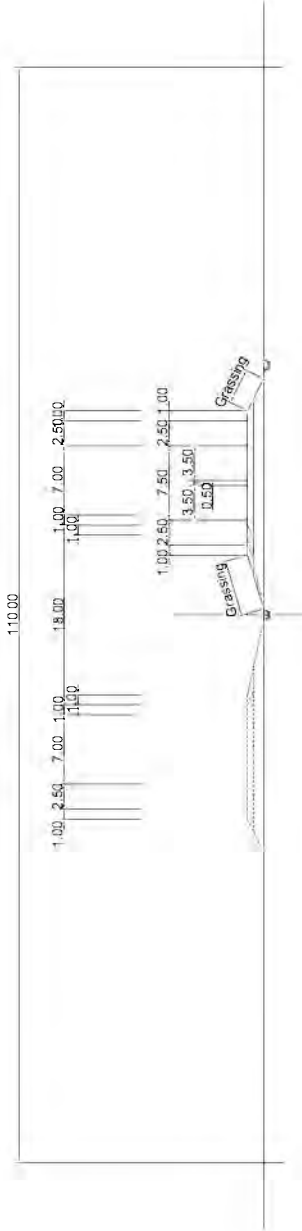
Drawing No	TS-4
SCALE	1/50
DATE	OCT. 2011

TYPICAL CROSS SECTION (5)
 SEC. 3&4 (MWACHE BR. -MTEZA BR. - KIBUNDANI JCT.)

Embankment (Sea Side)

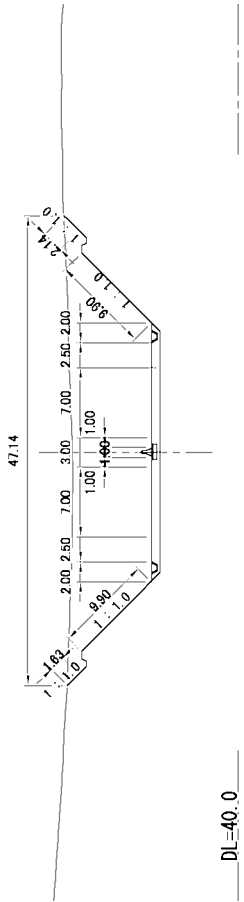


Flat Section

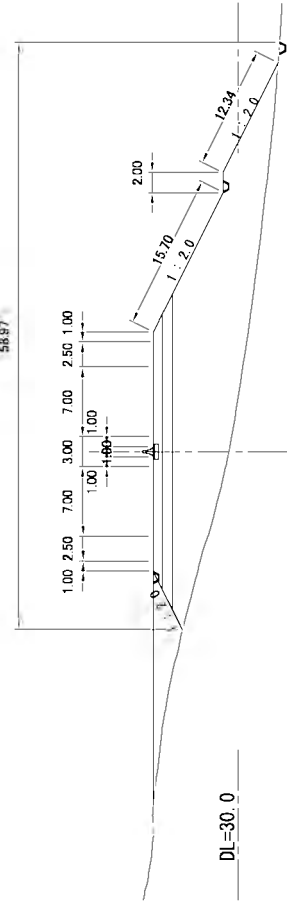


KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: TYPICAL CROSS SECTION (5) SEC. 3&4 (MWACHE BR. -MTEZA BR. - KIBUNDANI JCT.)	Drawing No	TS-5
				SCALE	1/50
				DATE	OCT. 2011

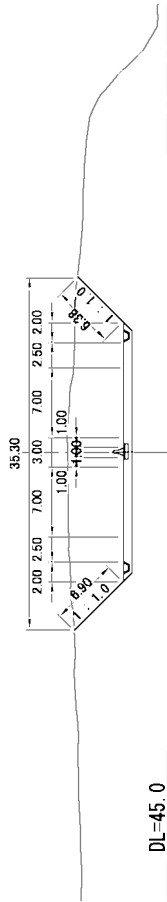
STA. 0+200
FH. -48.79



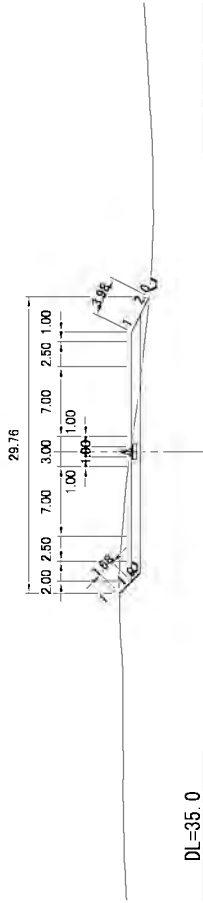
STA. 0+500
FH. -38.54



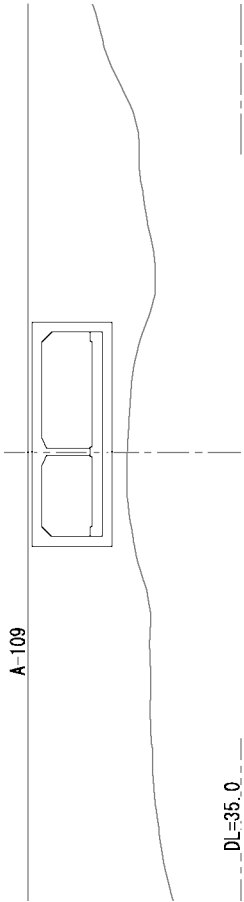
STA. 0+100
FH. -48.50



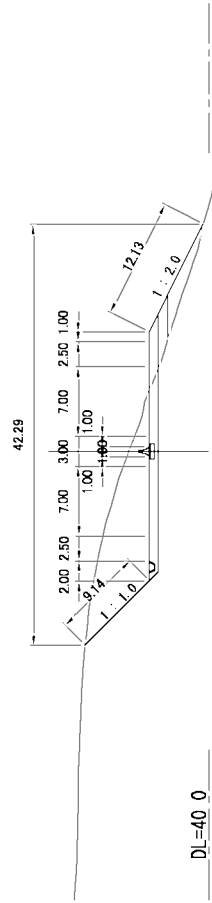
STA. 0+400
FH. -42.24



STA. 0+000
FH. -50.00



STA. 0+300
FH. -45.94



KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

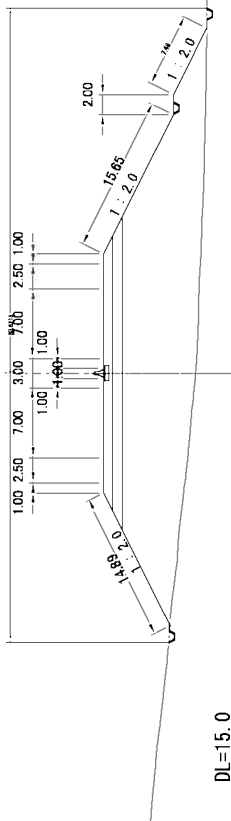
PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

TITLE:
CROSS SECTION (1)
MOMBASA SOUTHERN BYPASS

Drawing No.	CS-1
SCALE	1/500
DATE	OCT. 2011

STA. 0+800

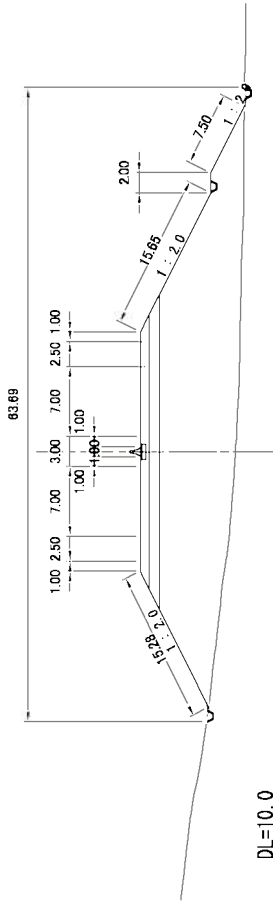
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DL=15.0

STA. 1+100

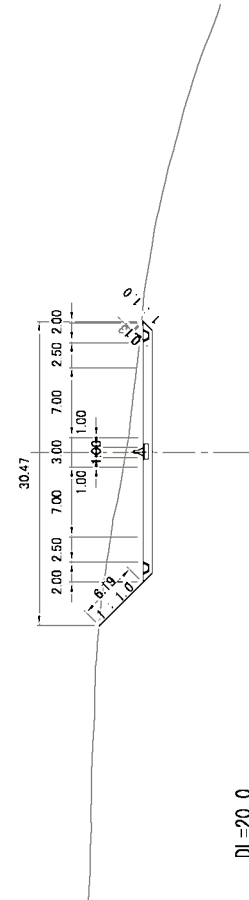
FH = 23.54



DL=10.0

STA. 0+700

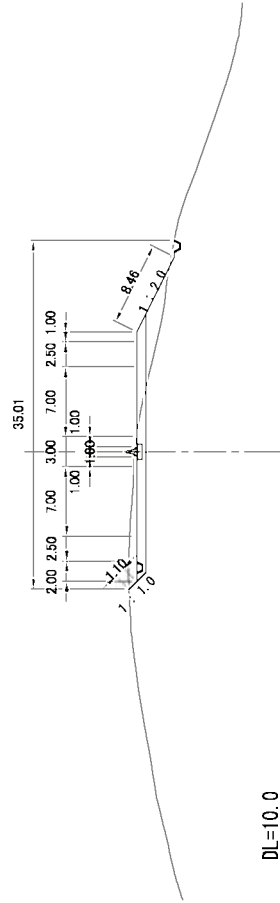
FH = 31.14



DL=20.0

STA. 1+000

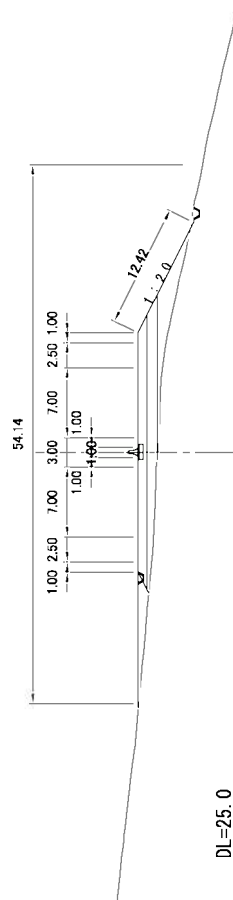
FH = 24.84



DL=10.0

STA. 0+600

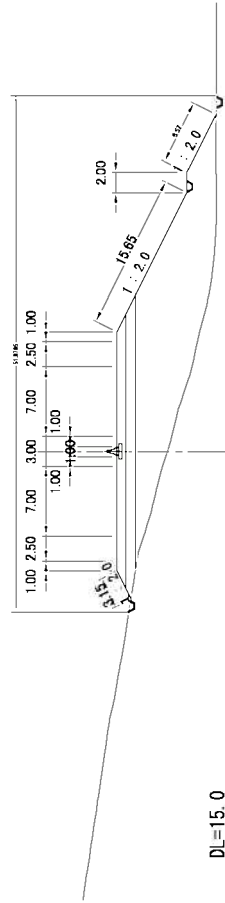
FH = 34.84



DL=25.0

STA. 0+900

FH = 26.14



DL=15.0

KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

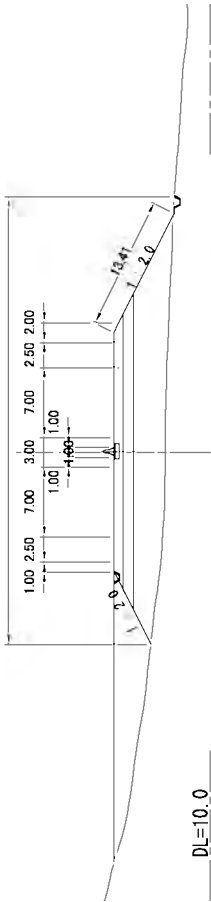
TITLE:
CROSS SECTION (2)
MOMBASA SOUTHERN BYPASS

Drawing No.	CS-2
SCALE	1/500
DATE	OCT. 2011

STA. 1+400

FH = 19.64

44.96

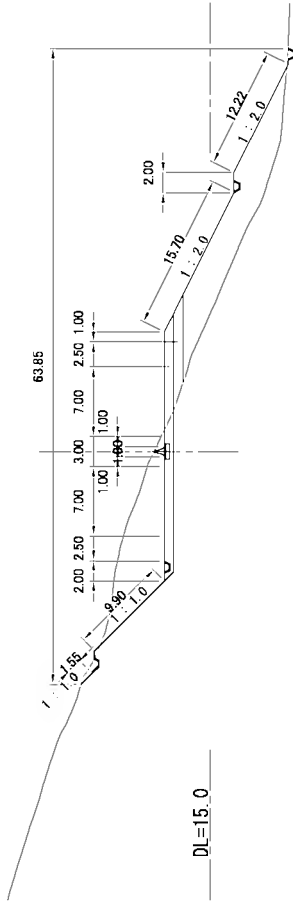


DL=10.0

STA. 1+700

FH = 19.63

63.85

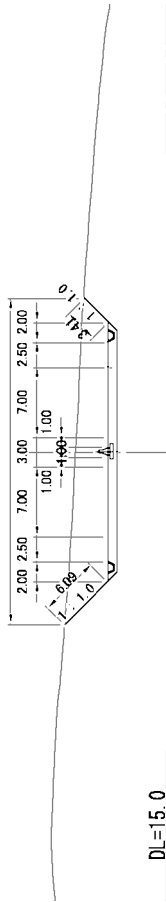


DL=15.0

STA. 1+300

FH = 20.84

32.70

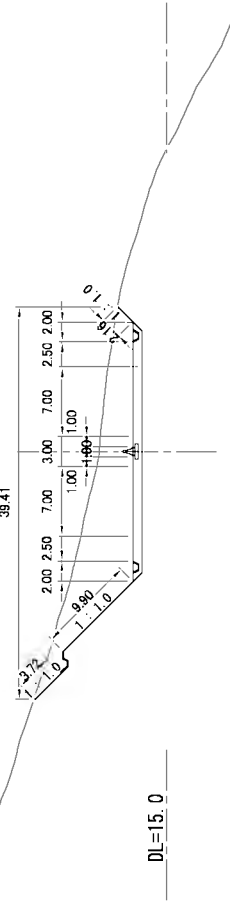


DL=15.0

STA. 1+600

FH = 18.42

39.41

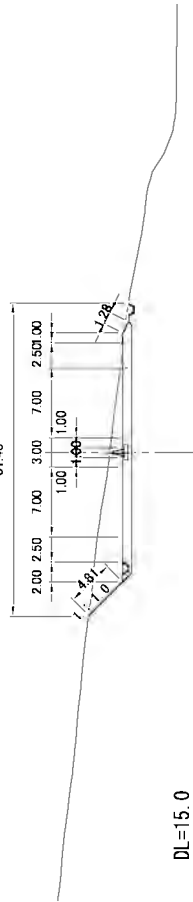


DL=15.0

STA. 1+200

FH = 22.24

31.43

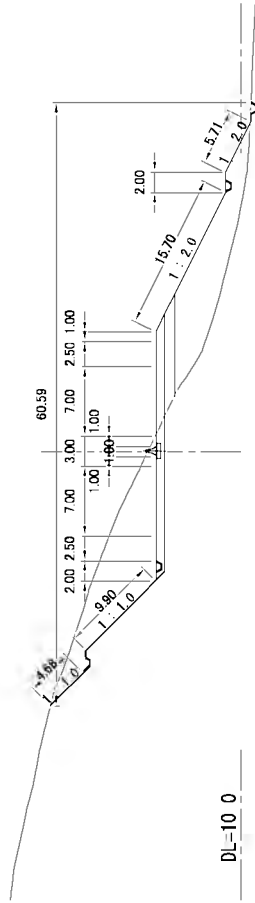


DL=15.0

STA. 1+500

FH = 18.55

60.59



DL=10.0

KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
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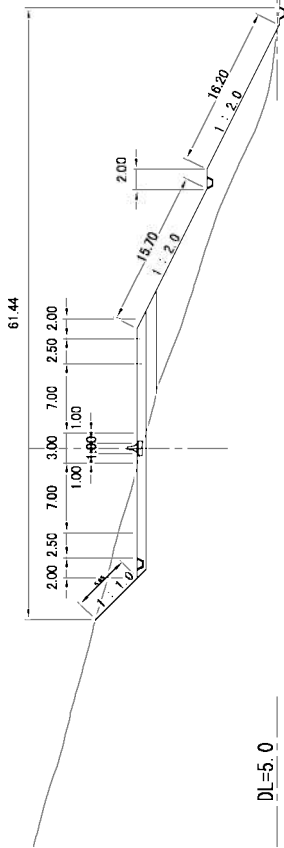
TITLE:

CROSS SECTION (3)
MOMBASA SOUTHERN BYPASS

Drawing No.	CS-3
SCALE	1/500
DATE	OCT. 2011

STA. 2+000

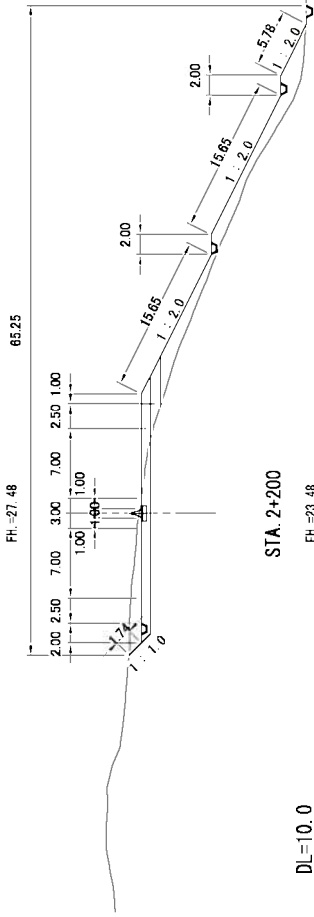
FH: 19.04



DL=5.0

STA. 2+300

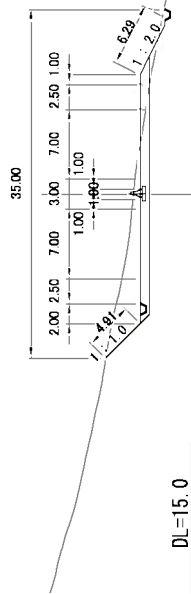
FH: 27.48



DL=10.0

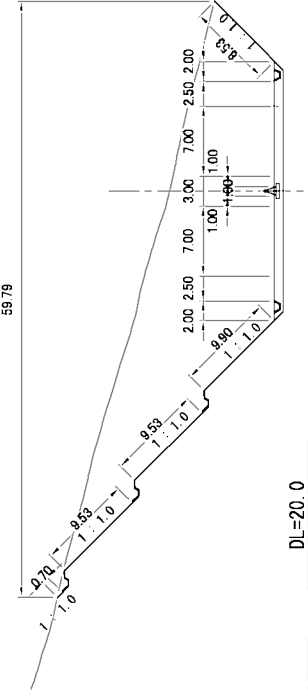
STA. 1+900

FH: 20.16



DL=15.0

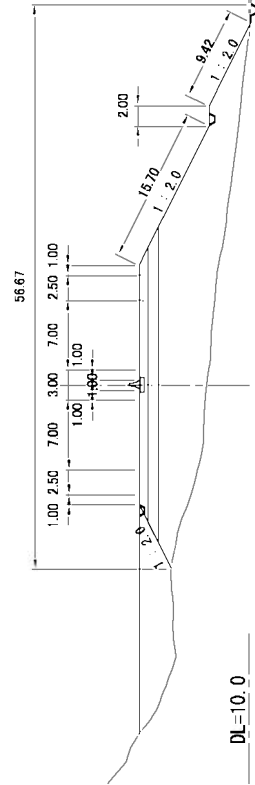
59.79



DL=20.0

STA. 1+800

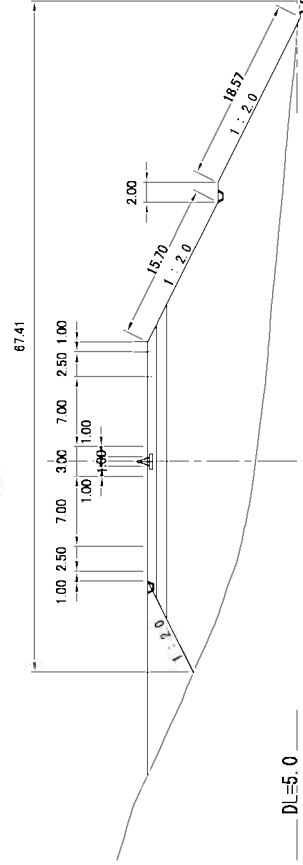
FH: 21.00



DL=10.0

STA. 2+100

FH: 19.98

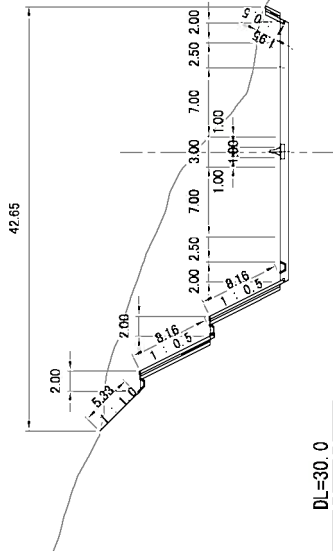


DL=5.0

KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	
			CROSS SECTION (4) MOMBASA SOUTHERN BYPASS	Drawing No. CS-4
			SCALE	1/500
			DATE	OCT. 2011

STA. 2+500

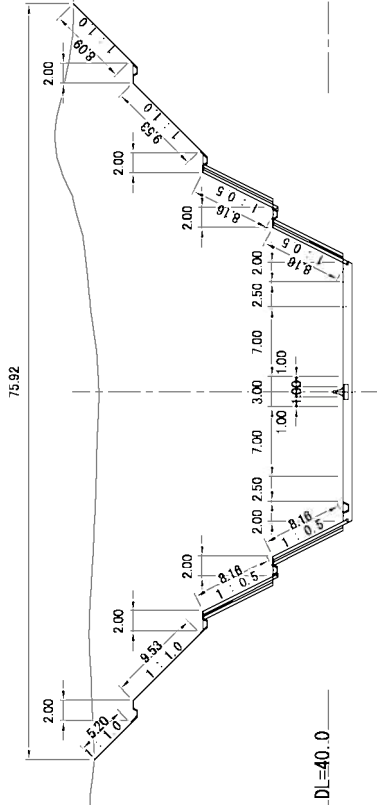
FH: 35.44



DL=30.0

STA. 2+700

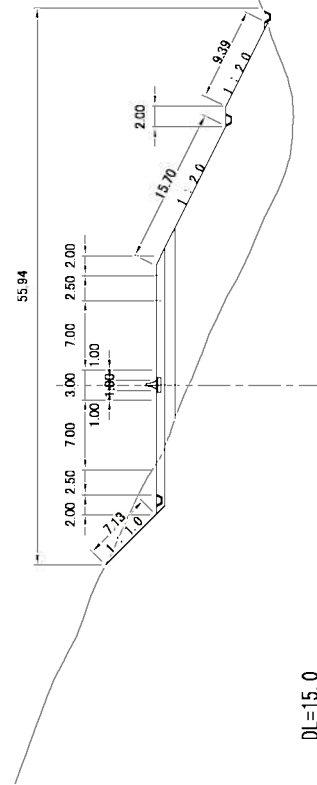
FH: 38.64



DL=40.0

STA. 2+400

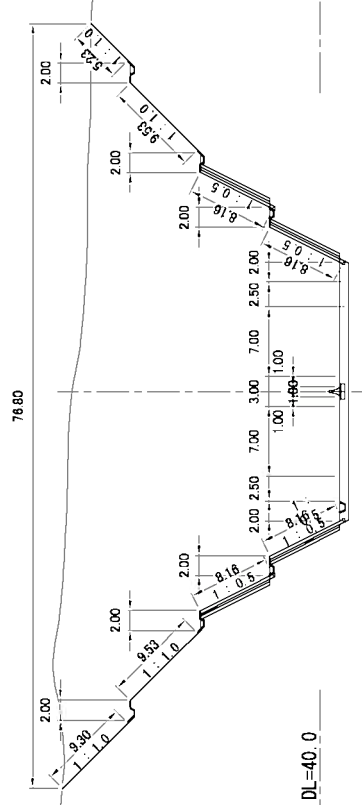
FH: 31.48



DL=15.0

STA. 2+600

FH: 38.04



DL=40.0

KENYA NATIONAL
HIGHWAY AUTHORITY

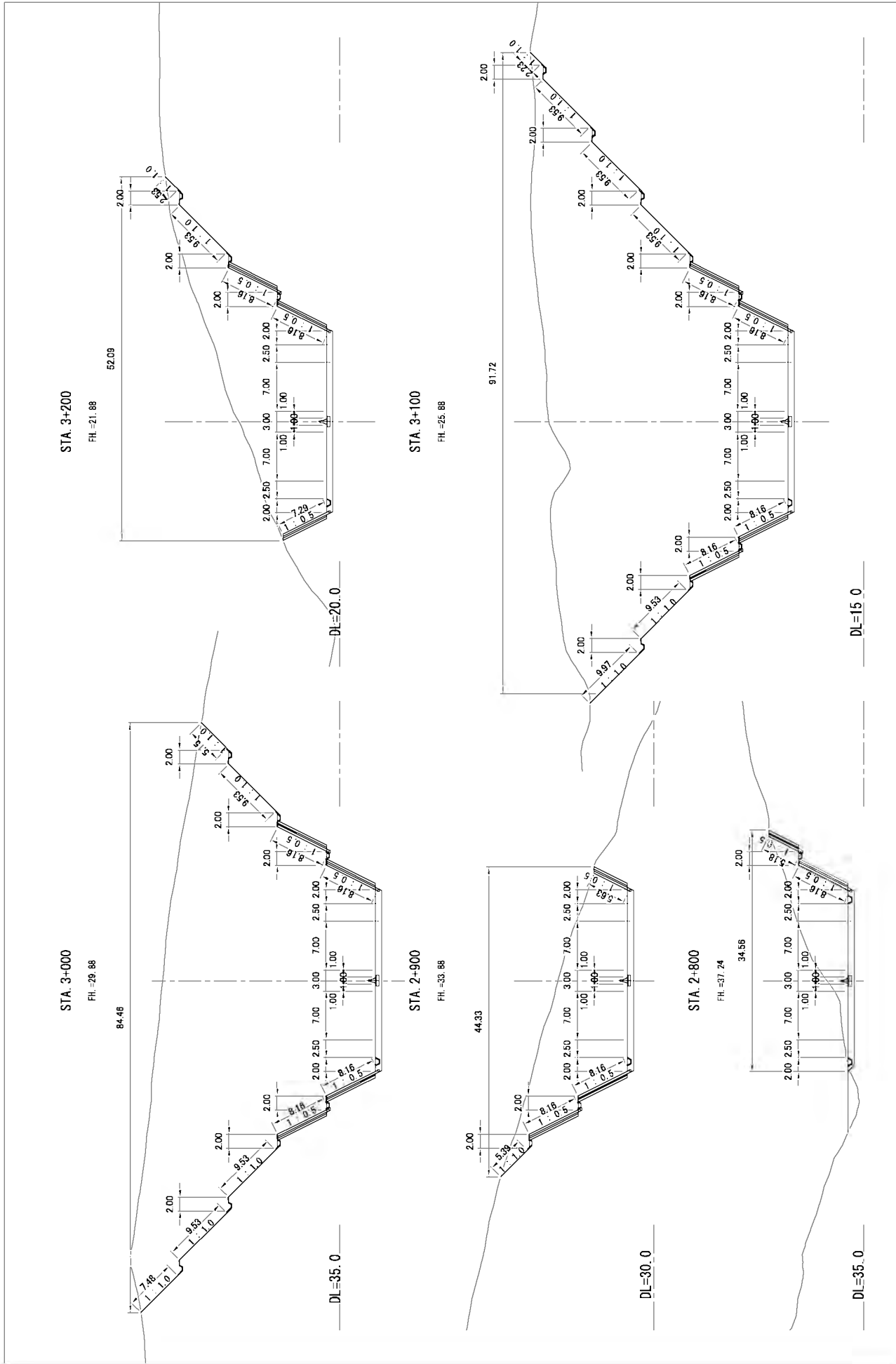
JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

TITLE:

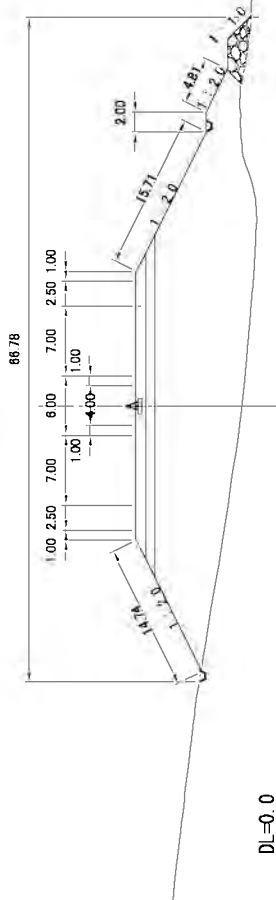
CROSS SECTION (5)
MOMBASA SOUTHERN BYPASS

Drawing No.	CS-5
SCALE	1/500
DATE	OCT. 2011

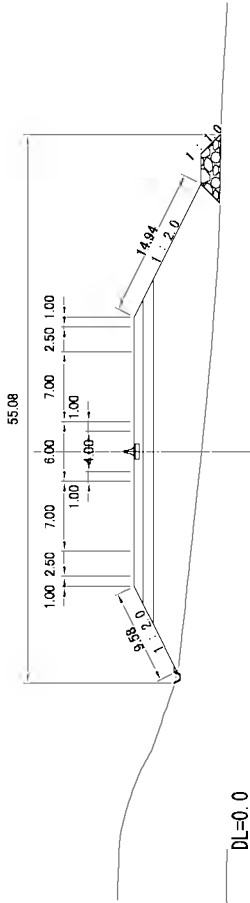


KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	CROSS SECTION (6) MOMBASA SOUTHERN BYPASS	Drawing No.	CS-6
			SCALE	1/500	DATE	OCT. 2011

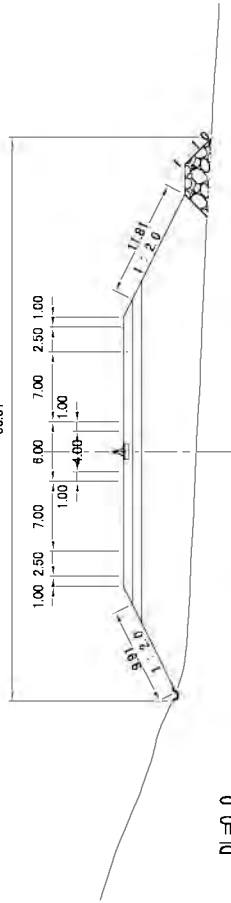
STA. 3+400
FH = 14.25



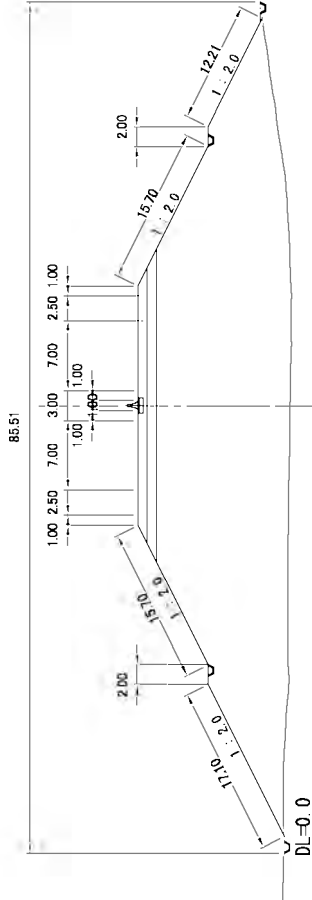
STA. 3+700
FH = 11.78



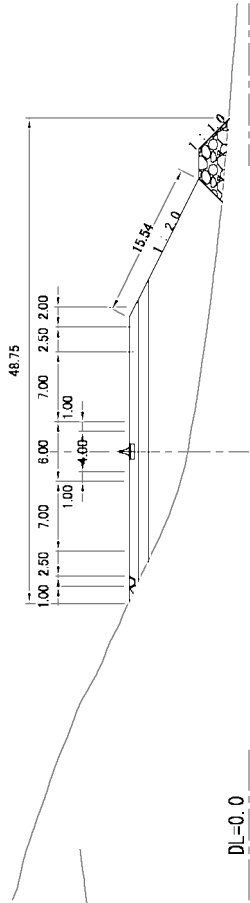
STA. 3+600
FH = 11.28



STA. 3+300
FH = 17.88



STA. 3+500
FH = 12.05



KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	CROSS SECTION (7)	Drawing No.	CS-7
				MOMBASA SOUTHERN BYPASS	SCALE	1/500
					DATE	OCT. 2011

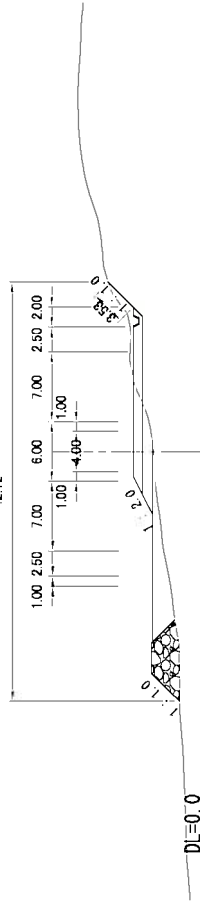
STA. 3+900
FH.=12.68

Bridge

DL=-5.0

STA. 6+000
FH.=7.03

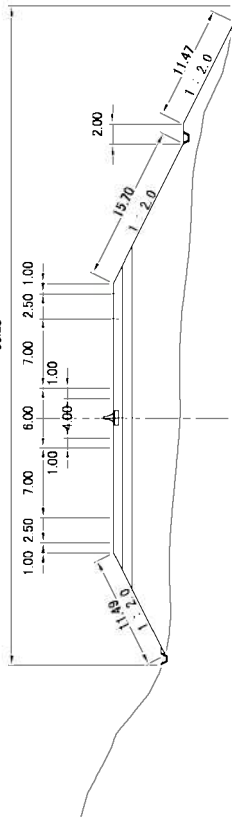
42.12



DL=0.0

STA. 3+800
FH.=12.28

66.25



DL=-5.0

STA. 5+900
FH.=6.05

Bridge

DL=0.0

KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

TITLE:
PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

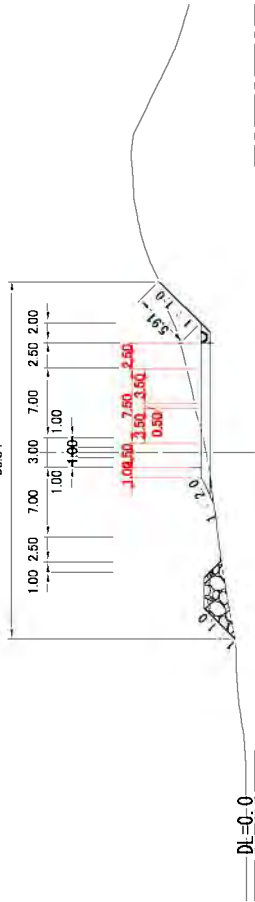
CROSS SECTION (B)
MOMBASA SOUTHERN BYPASS

Drawing No.	CS-8
SCALE	1/500
DATE	OCT. 2011

STA. 6+300

PH = 5.39

35.84

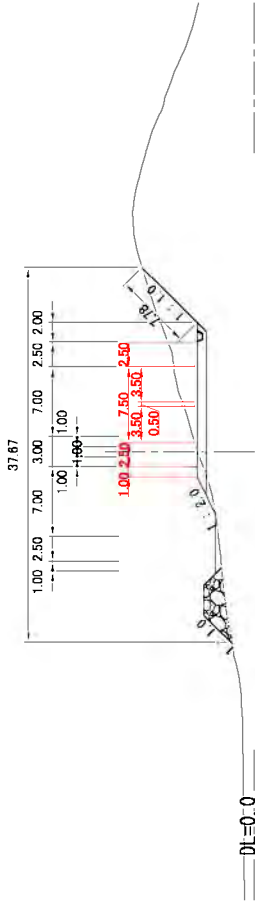


DL=0.0

STA. 6+600

PH = 5.80

37.87

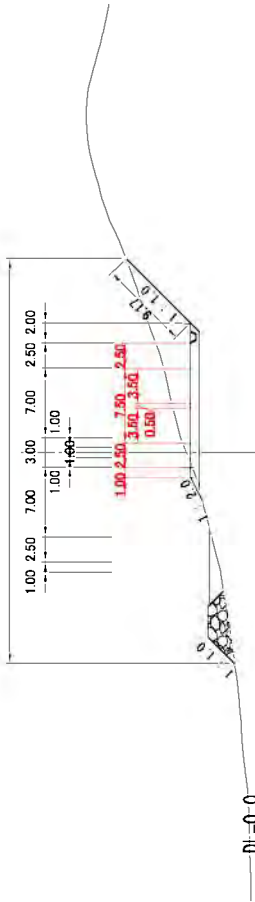


DL=0.0

STA. 6+200

PH = 6.84

40.69

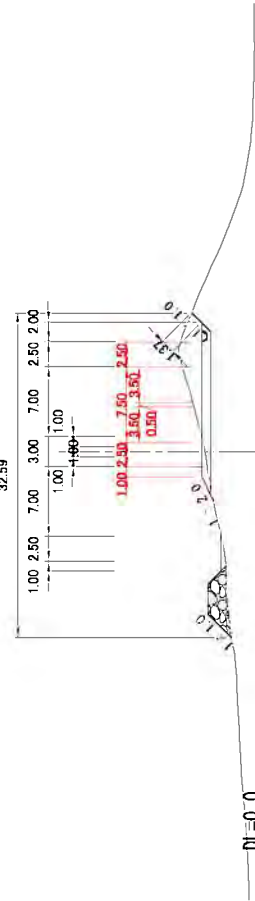


DL=0.0

STA. 6+500

PH = 5.74

32.59

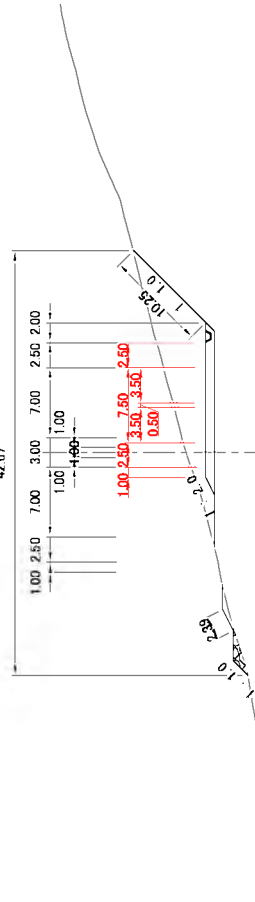


DL=0.0

STA. 6+100

PH = 7.88

42.67

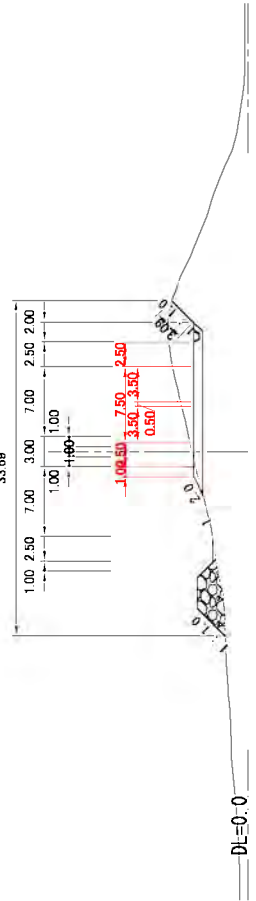


DL=0.0

STA. 6+400

PH = 5.44

33.69



DL=0.0

KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

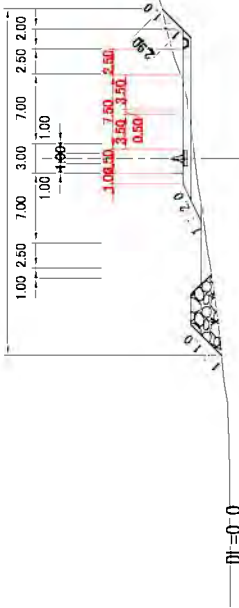
TITLE:

CROSS SECTION (9)
MOMBASA SOUTHERN BYPASS

Drawing No.	CS-9
SCALE	1/500
DATE	OCT. 2011

STA. 6+900

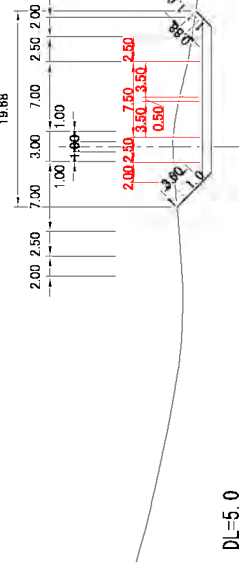
FH.=5.94
34.83



DL=0.0

STA. 7+200

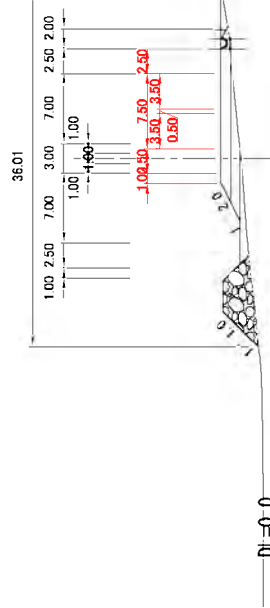
FH.=8.94



DL=5.0

STA. 6+800

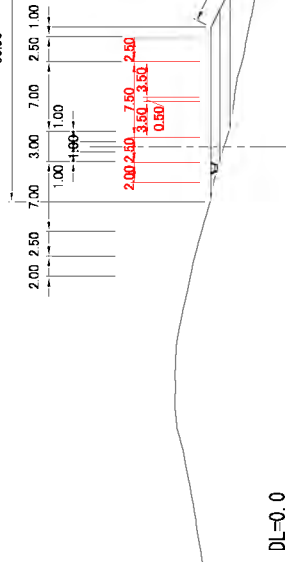
FH.=5.26



DL=0.0

STA. 7+100

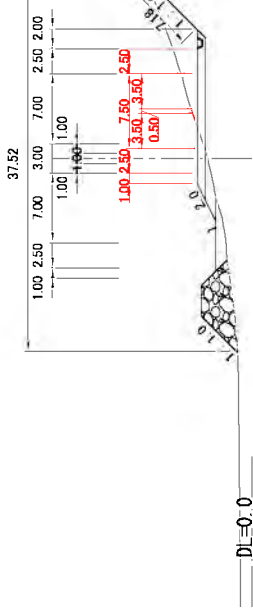
FH.=7.94



DL=0.0

STA. 6+700

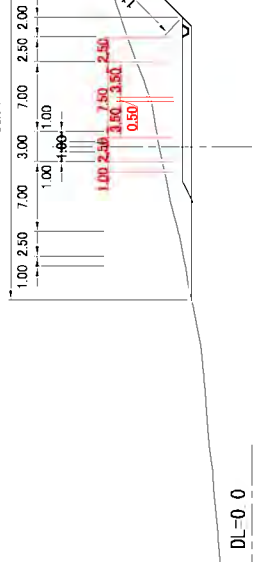
FH.=5.50



DL=0.0

STA. 7+000

FH.=6.94



DL=0.0

KENYA NATIONAL
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JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

PREPARATORY SURVEY ON
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TITLE:

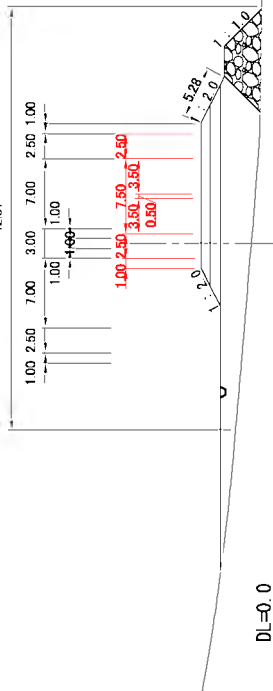
CROSS SECTION (10)
MOMBASA SOUTHERN BYPASS

Drawing No.	CS-10
SCALE	1/500
DATE	OCT. 2011

STA. 7+500

FIH.=7.46

42.57

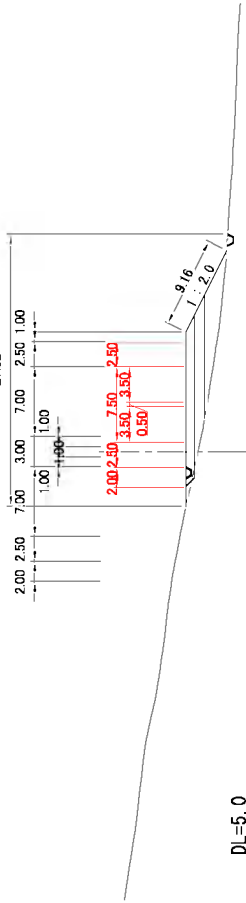


DL=0.0

STA. 7+800

FIH.=11.26

27.32

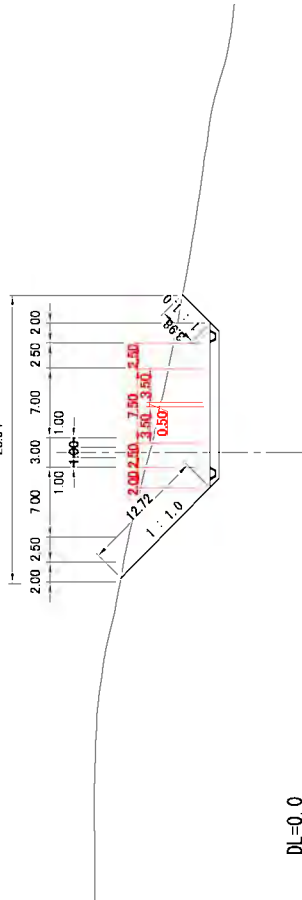


DL=5.0

STA. 7+400

FIH.=9.61

28.94

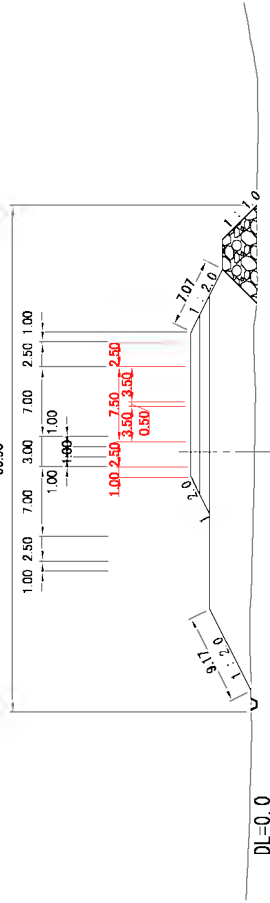


DL=0.0

STA. 7+700

FIH.=8.26

50.90

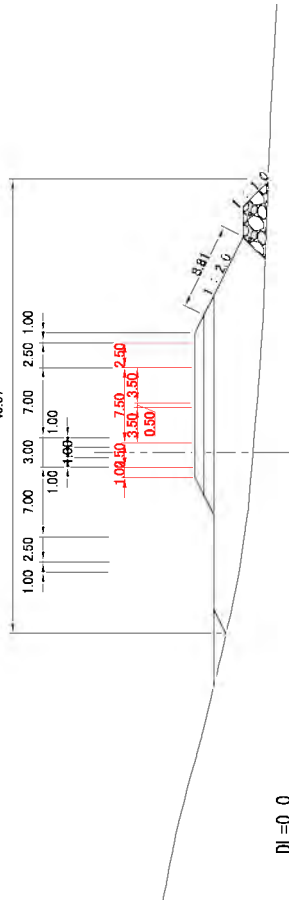


DL=0.0

STA. 7+300

FIH.=9.94

45.67

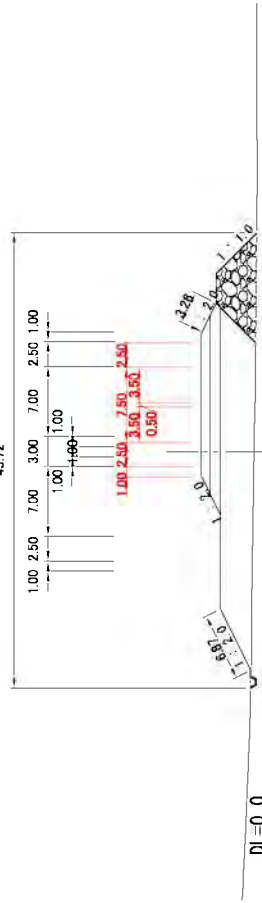


DL=0.0

STA. 7+600

FIH.=5.56

45.72



DL=0.0

KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

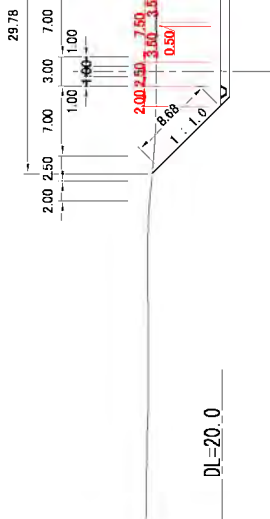
PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

CROSS SECTION (11)
MOMBASA SOUTHERN BYPASS

Drawing No. CS-11
SCALE 1/500
DATE OCT. 2011

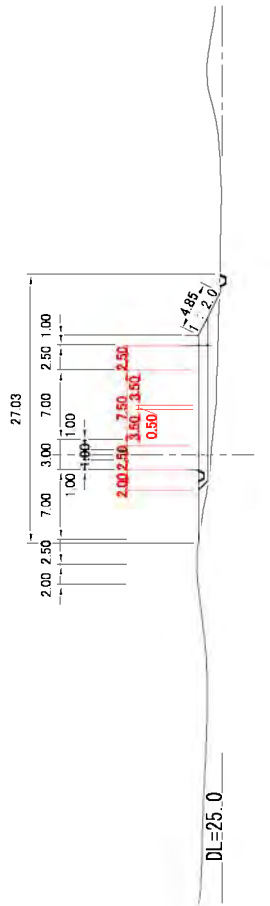
STA. 8+100

FH = 20.26



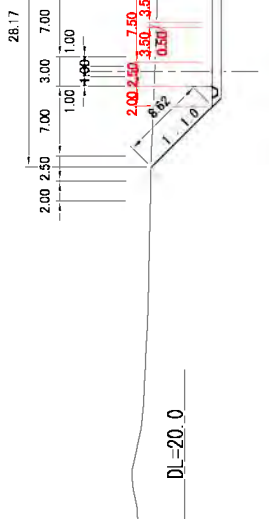
STA. 8+400

FH = 27.46



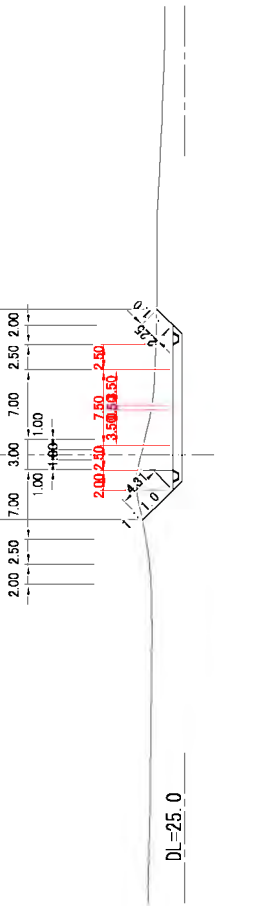
STA. 8+000

FH = 17.26



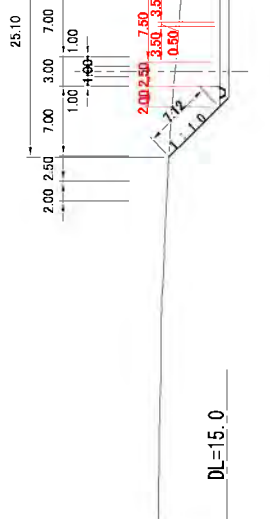
STA. 8+300

FH = 26.21



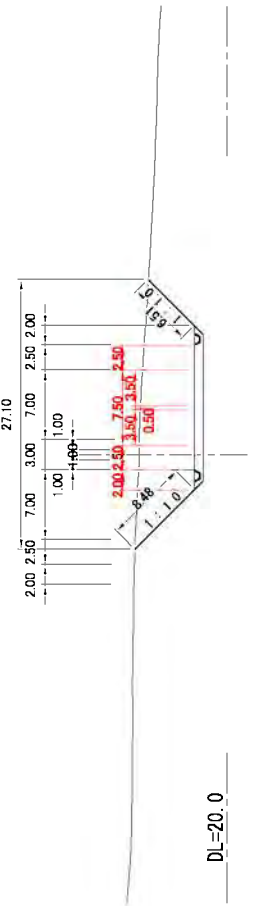
STA. 7+900

FH = 14.26



STA. 8+200

FH = 23.26



KENYA NATIONAL HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL

PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA

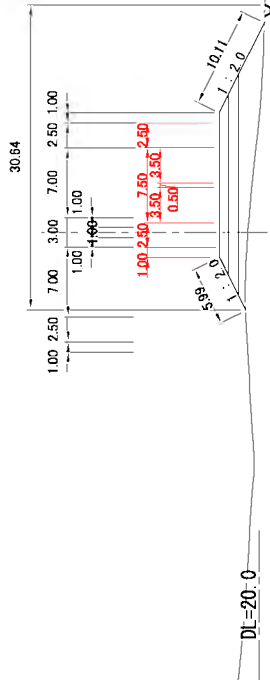
TITLE:

CROSS SECTION (12) MOMBASA SOUTHERN BYPASS

Drawing No.	CS-12
SCALE	1/500
DATE	OCT. 2011

STA. 8+700

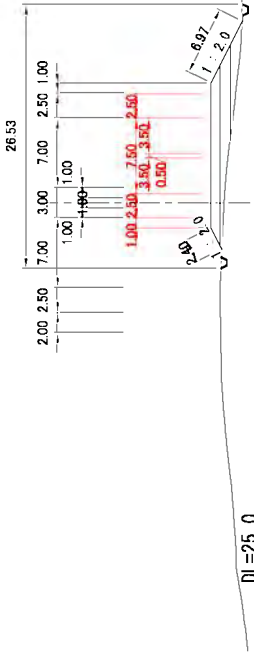
FH = 24.06



DL=20.0

STA. 9+000

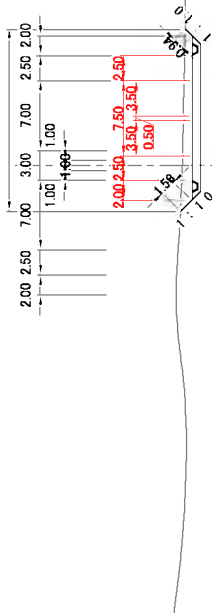
FH = 28.86



DL=25.0

STA. 8+600

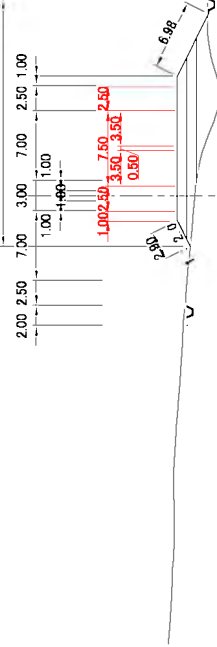
FH = 24.31



DL=20.0

STA. 8+900

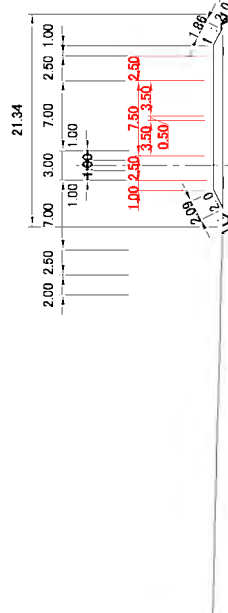
FH = 27.86



DL=20.0

STA. 8+500

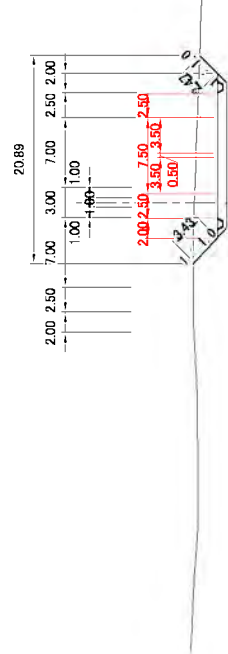
FH = 26.26



DL=20.0

STA. 8+800

FH = 25.86



DL=20.0

KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

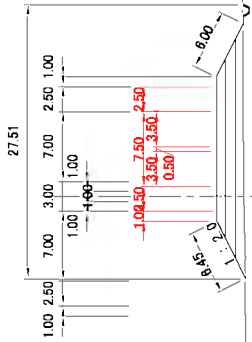
PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

CROSS SECTION (13)
MOMBASA SOUTHERN BYPASS

Drawing No. CS-13
SCALE 1/500
DATE OCT. 2011

STA. 9+300

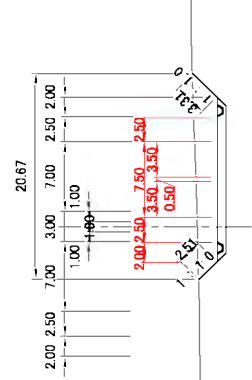
FH =32.36



DL=25.0

STA. 9+600

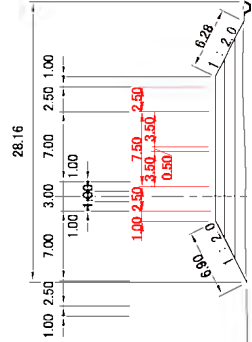
FH =27.36



DL=20.0

STA. 9+200

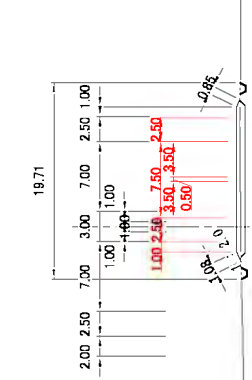
FH =27.74



DL=25.0

STA. 9+500

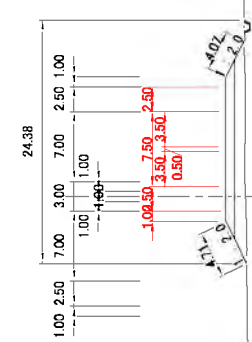
FH =30.66



DL=25.0

STA. 9+100

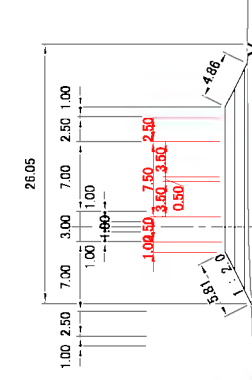
FH =31.83



DL=25.0

STA. 9+400

FH =31.86



DL=25.0

KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

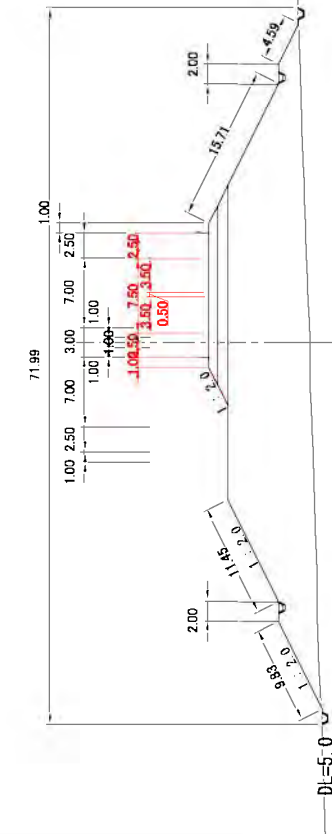
PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

TITLE:
CROSS SECTION (14)
MOMBASA SOUTHERN BYPASS

Drawing No.	CS-14
SCALE	1/500
DATE	OCT. 2011

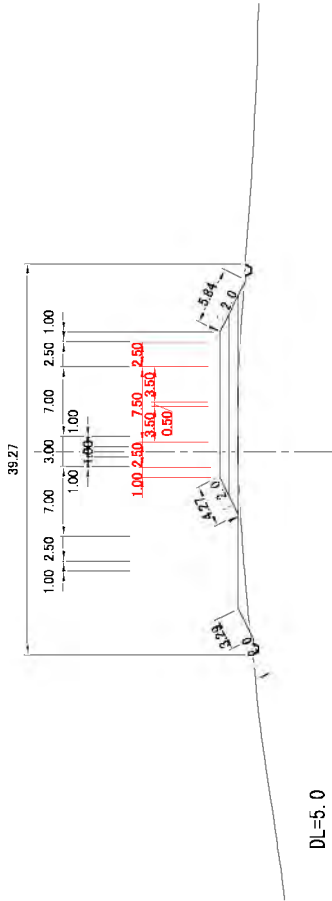
STA. 9+900

FH = 17.51



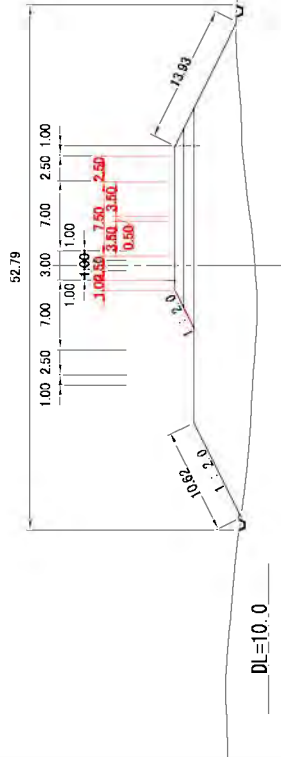
STA. 10+200

FH = 16.43



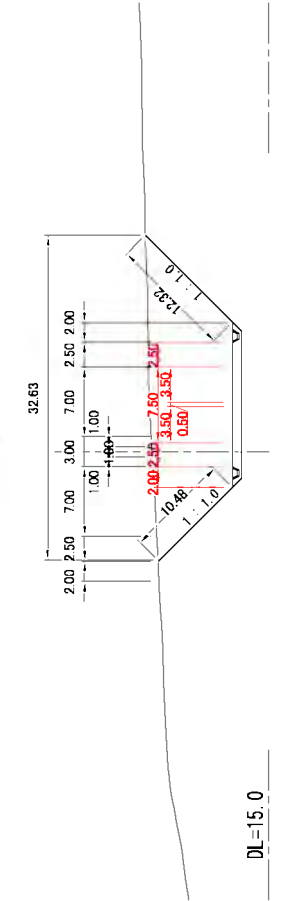
STA. 9+800

FH = 19.42



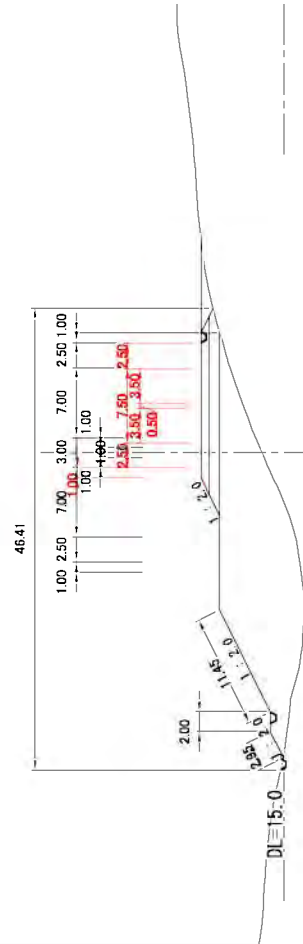
STA. 10+100

FH = 18.69



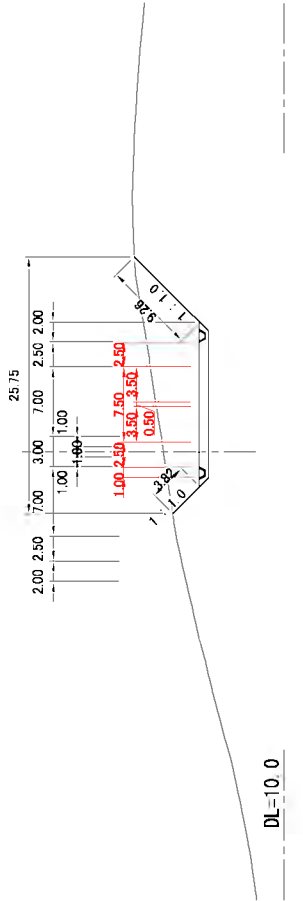
STA. 9+700

FH = 23.36



STA. 10+000

FH = 18.47



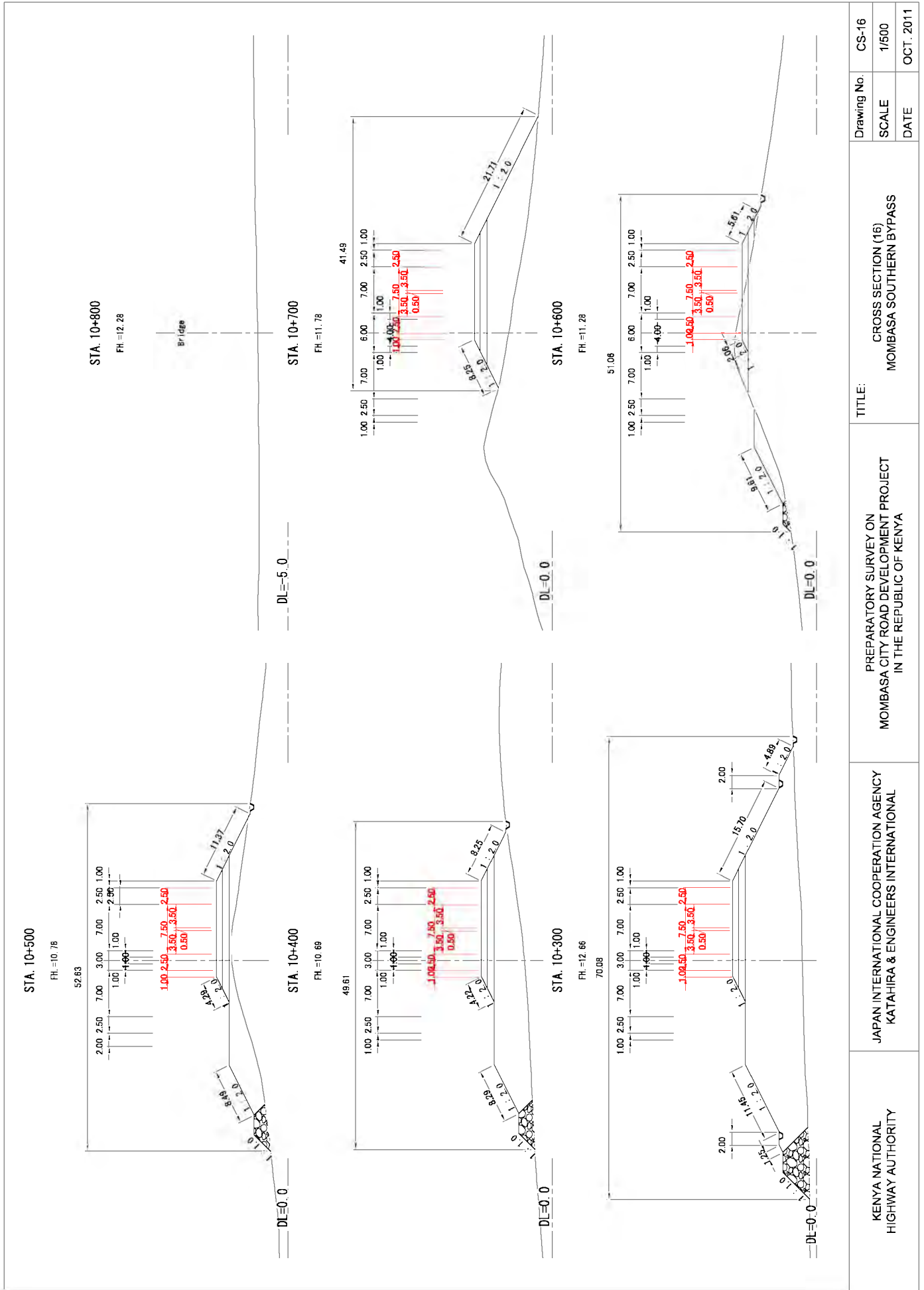
KENYA NATIONAL HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL

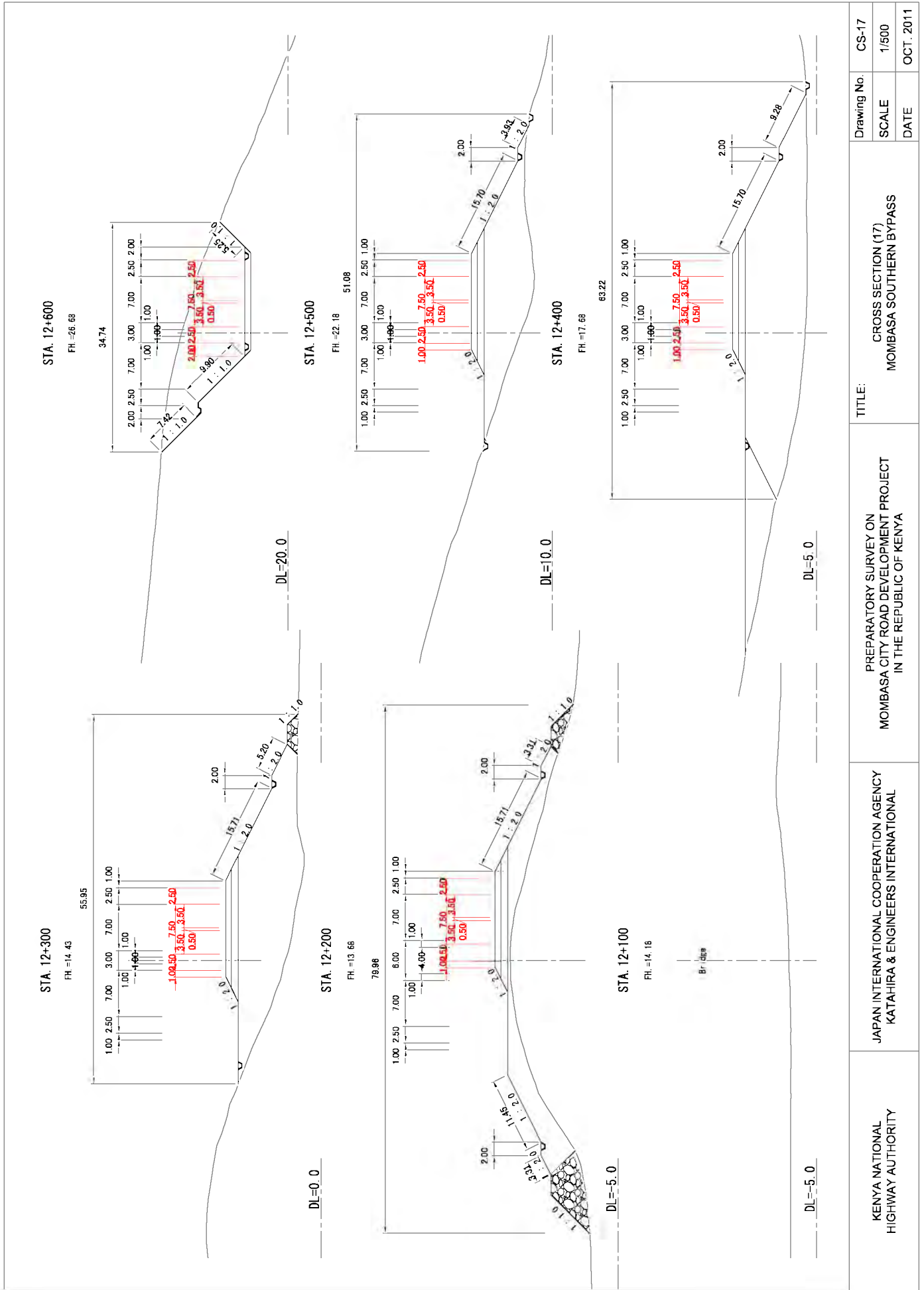
PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA

CROSS SECTION (15) MOMBASA SOUTHERN BYPASS

Drawing No.	CS-15
SCALE	1/500
DATE	OCT. 2011



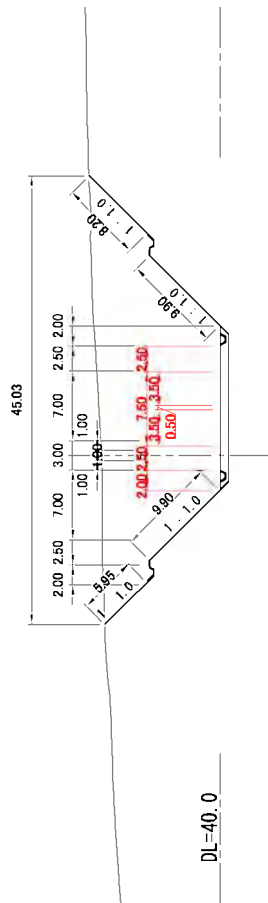
KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: CROSS SECTION (16) MOMBASA SOUTHERN BYPASS	Drawing No.	CS-16
				SCALE	1/500
				DATE	OCT. 2011



KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE: CROSS SECTION (17) MOMBASA SOUTHERN BYPASS	Drawing No.	CS-17
				SCALE	1/500
				DATE	OCT. 2011

STA. 12+900

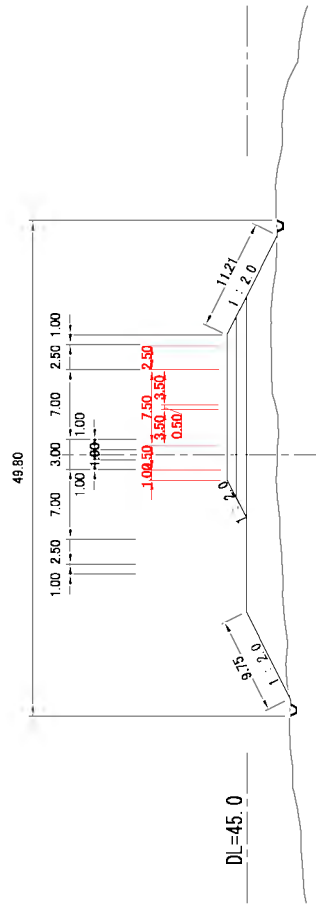
FH =40.18



DL=40.0

STA. 13+200

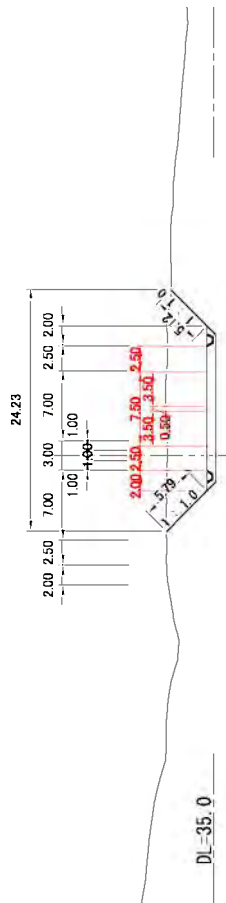
FH =47.08



DL=45.0

STA. 12+800

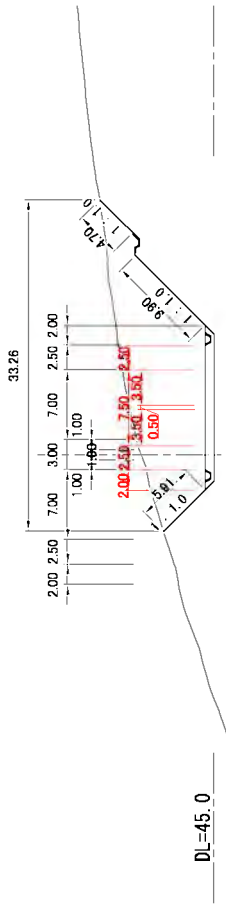
FH =35.68



DL=35.0

STA. 13+100

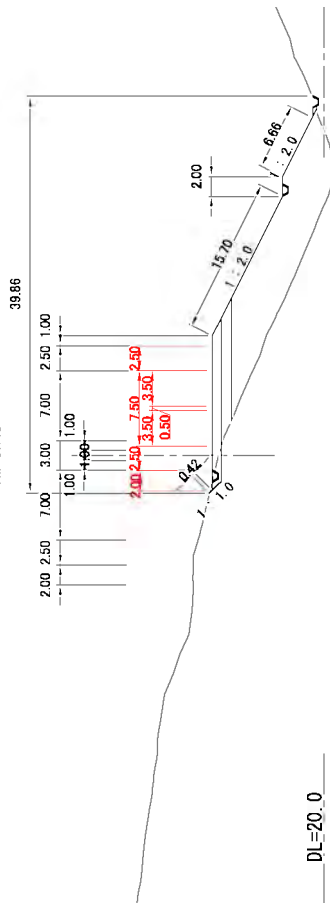
FH =45.88



DL=45.0

STA. 12+700

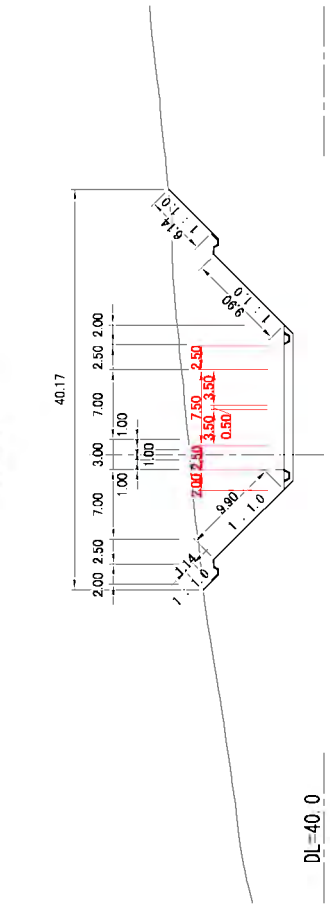
FH =31.16



DL=20.0

STA. 13+000

FH =44.02



DL=40.0

KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

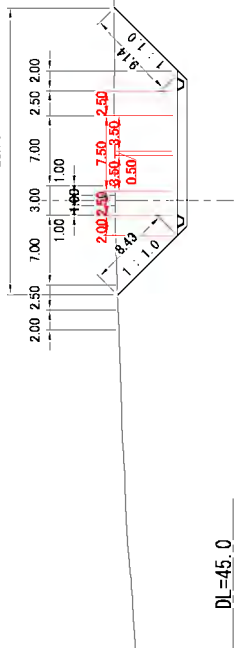
TITLE:
CROSS SECTION (18)
MOMBASA SOUTHERN BYPASS

Drawing No. CS-18
SCALE 1/500
DATE OCT. 2011

STA. 13+500

FH =50.68

28.74

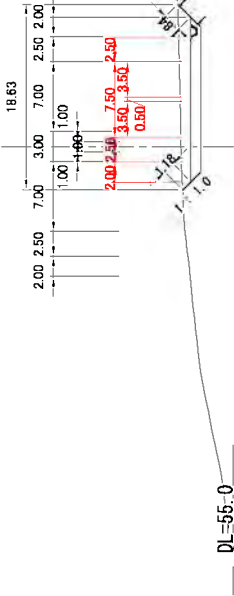


DL =45.0

STA. 13+800

FH =54.28

18.63

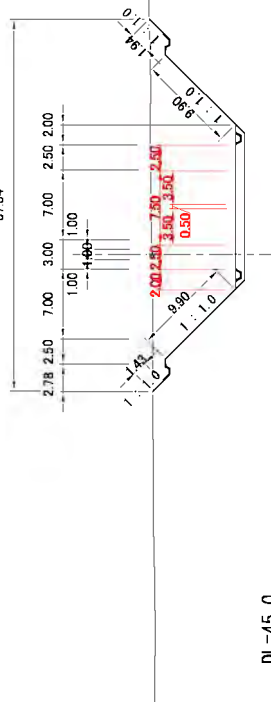


DL =55.0

STA. 13+400

FH =49.46

37.34

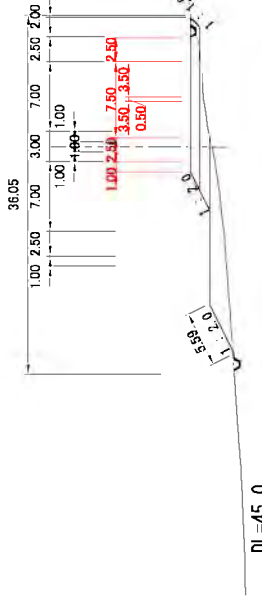


DL =45.0

STA. 13+700

FH =53.08

36.05

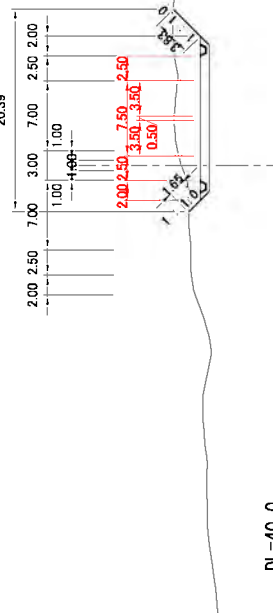


DL =45.0

STA. 13+300

FH =48.28

20.39

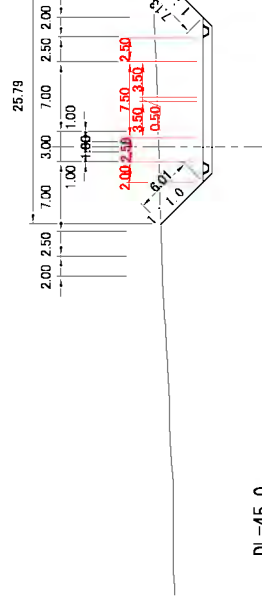


DL =40.0

STA. 13+600

FH =51.88

25.79



DL =45.0

KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

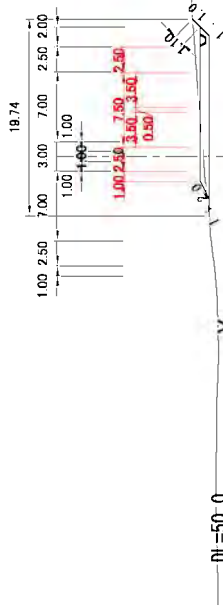
PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

TITLE:
CROSS SECTION (19)
MOMBASA SOUTHERN BYPASS

Drawing No.	CS-19
SCALE	1/500
DATE	OCT. 2011

STA. 14+100

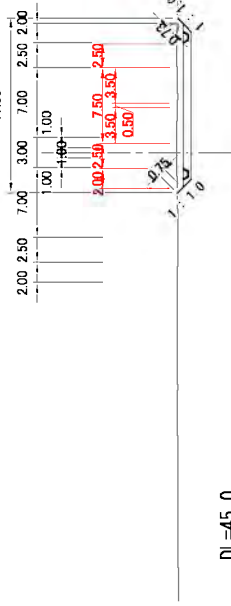
FH =52.84



DL=50.0

STA. 14+400

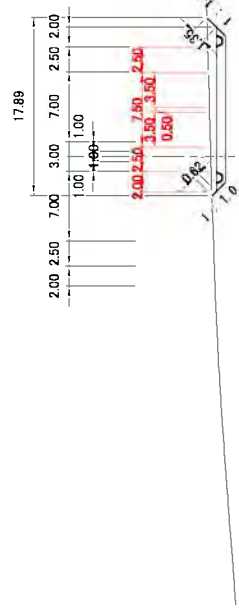
FH =50.44
17.55



DL=45.0

STA. 14+000

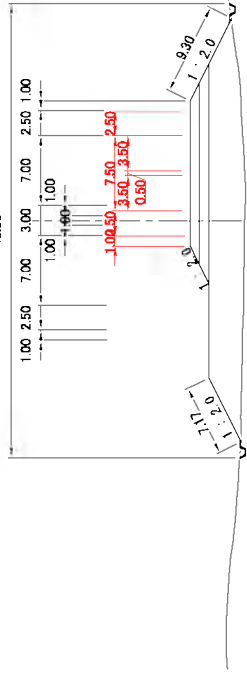
FH =55.37



DL=50.0

STA. 14+300

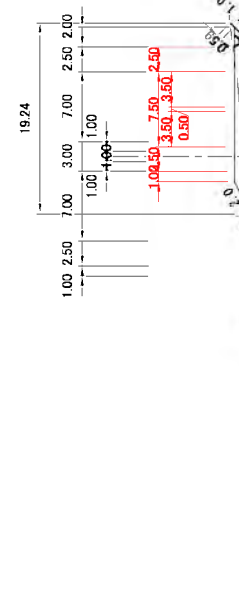
FH =48.82
45.66



DL=40.0

STA. 13+900

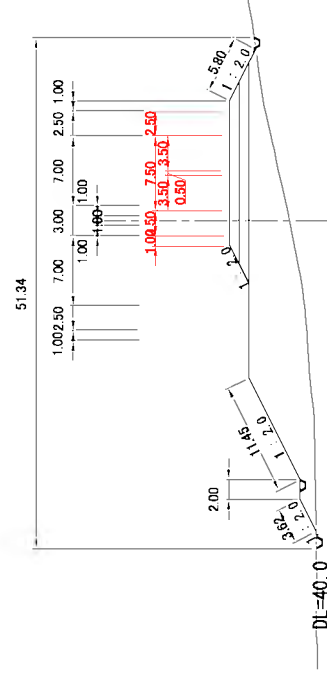
FH =55.46



DL=50.0

STA. 14+200

FH =49.89



DL=40.0

KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

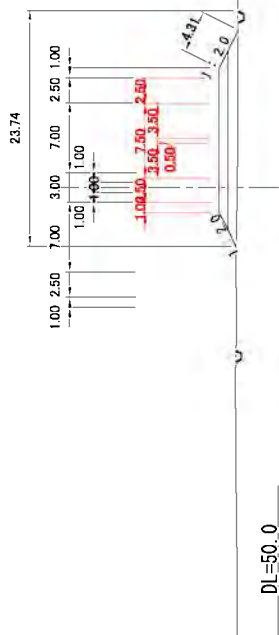
PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

TITLE:
CROSS SECTION (20)
MOMBASA SOUTHERN BYPASS

Drawing No.	CS-20
SCALE	1/500
DATE	OCT. 2011

STA. 14+700

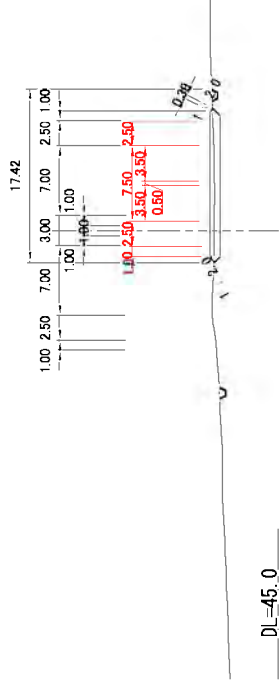
FI = 55.98



DL=50.0

STA. 15+000

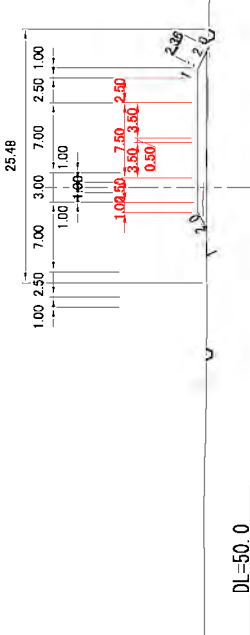
FI = 51.84



DL=45.0

STA. 14+600

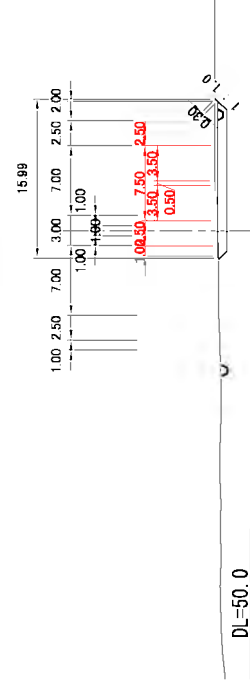
FI = 55.28



DL=50.0

STA. 14+900

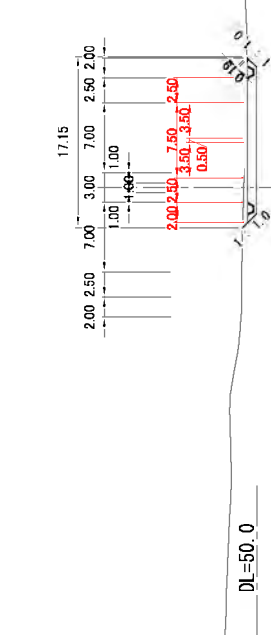
FI = 53.34



DL=50.0

STA. 14+500

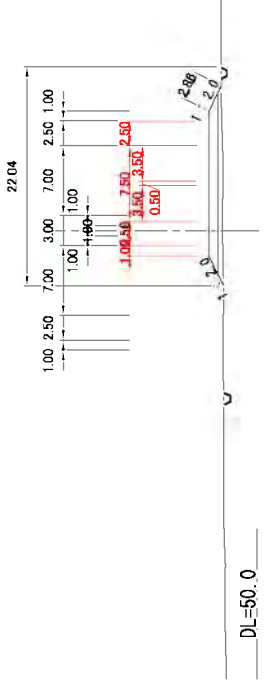
FI = 52.94



DL=50.0

STA. 14+800

FI = 54.84



DL=50.0

KENYA NATIONAL HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL

PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA

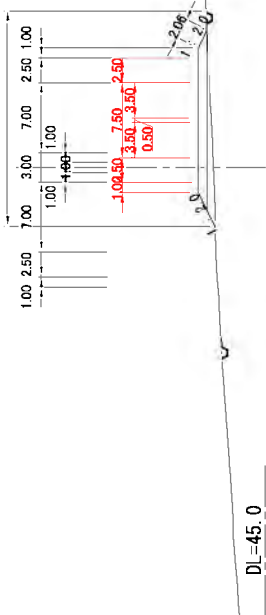
CROSS SECTION (21) MOMBASA SOUTHERN BYPASS

Drawing No.	CS-21
SCALE	1/500
DATE	OCT. 2011

STA. 15+300

FI = 49.14

21.61

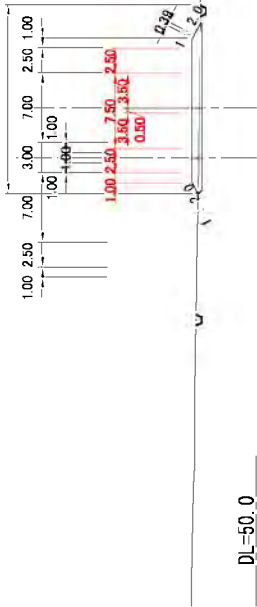


DL = 45.0

STA. 15+600

FI = 56.44

18.99

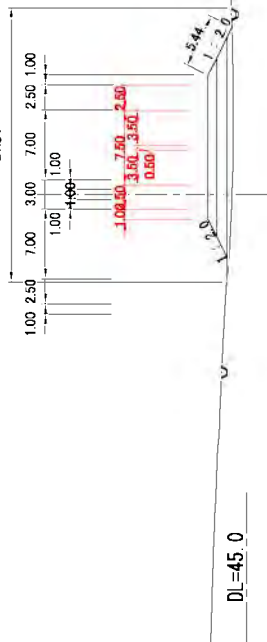


DL = 50.0

STA. 15+200

FI = 48.89

27.54

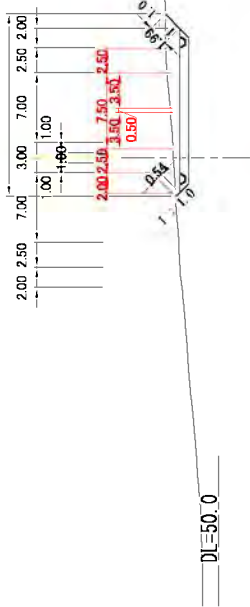


DL = 45.0

STA. 15+500

FI = 53.94

18.28

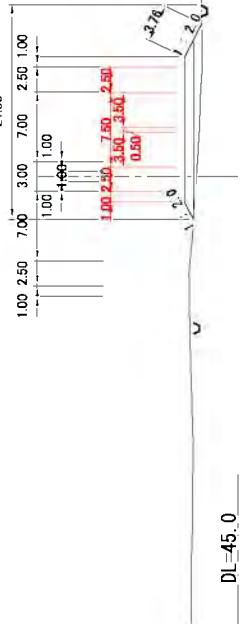


DL = 50.0

STA. 15+100

FI = 50.34

21.55

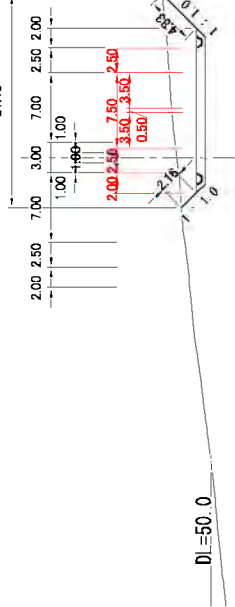


DL = 45.0

STA. 15+400

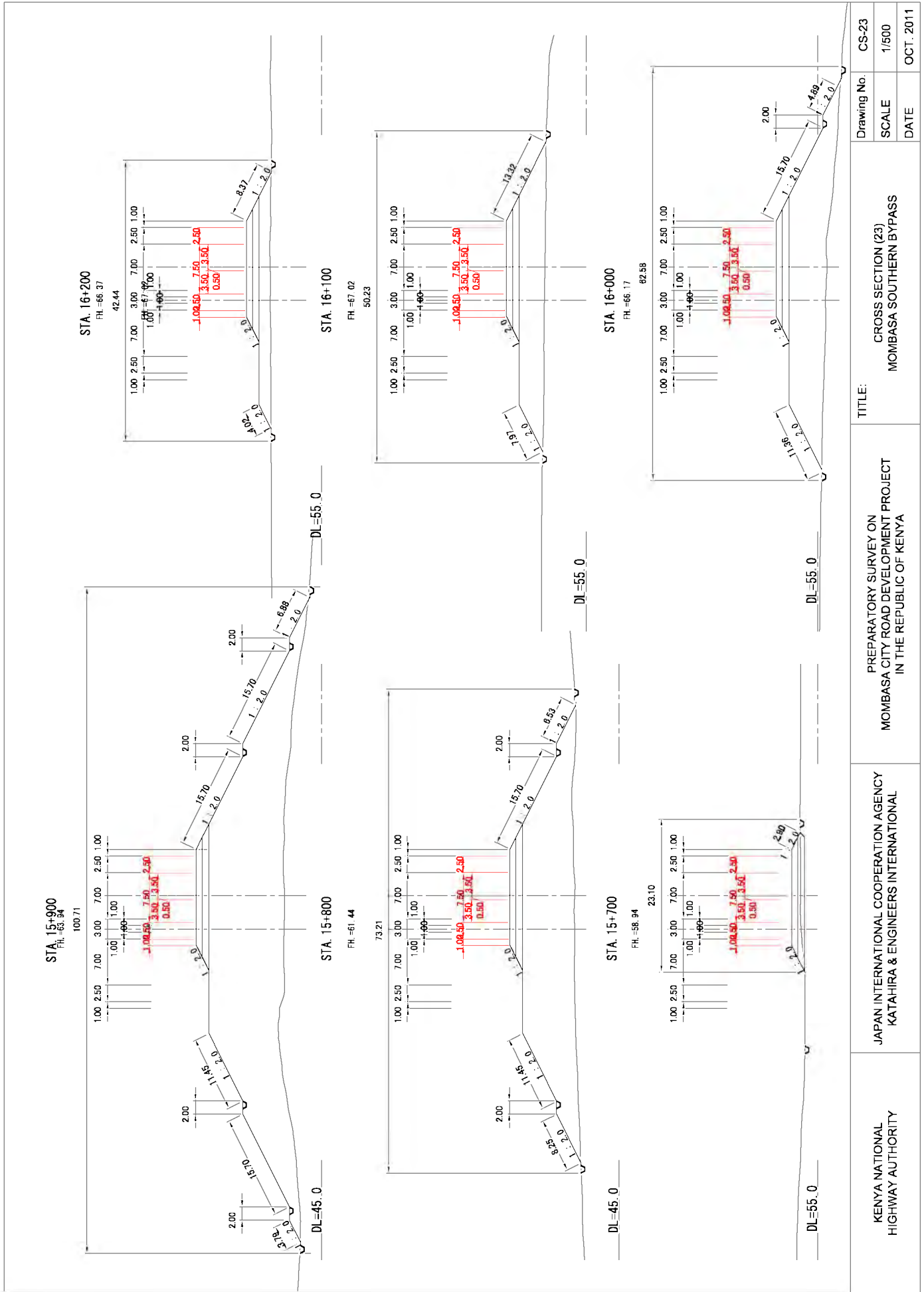
FI = 51.44

21.46



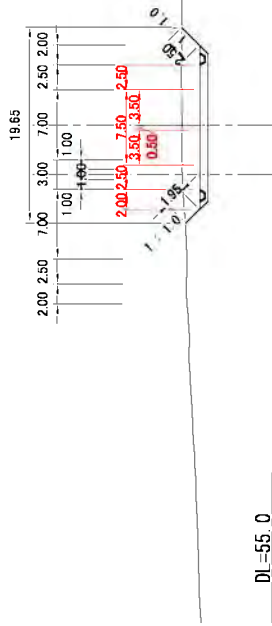
DL = 50.0

KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	
			CROSS SECTION (22) MOMBASA SOUTHERN BYPASS	Drawing No. CS-22
			SCALE	1/500
			DATE	OCT. 2011



STA. 16+500

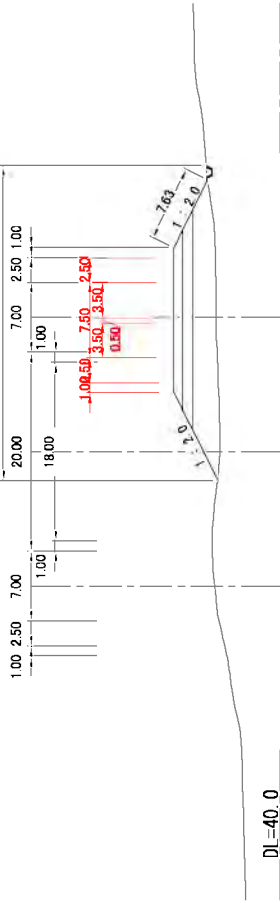
FH =57.34



DL=55.0

STA. 16+800

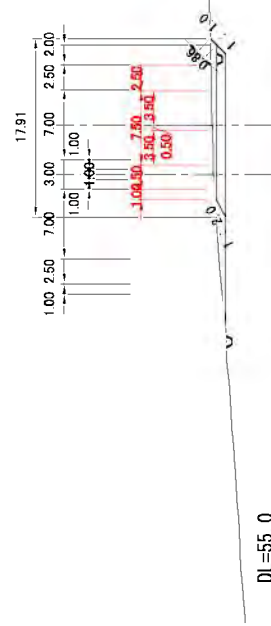
FH =50.75



DL=40.0

STA. 16+400

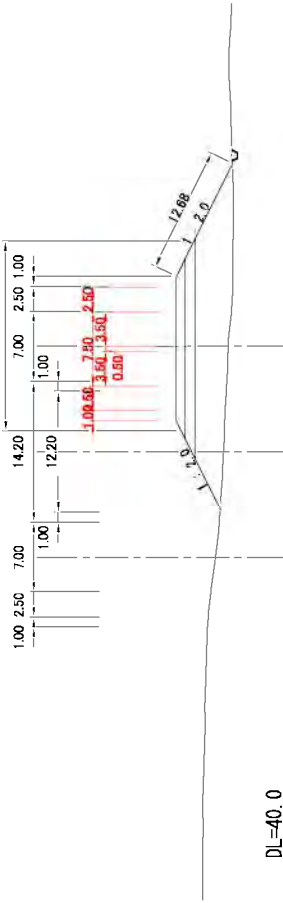
FH =60.84



DL=55.0

STA. 16+700

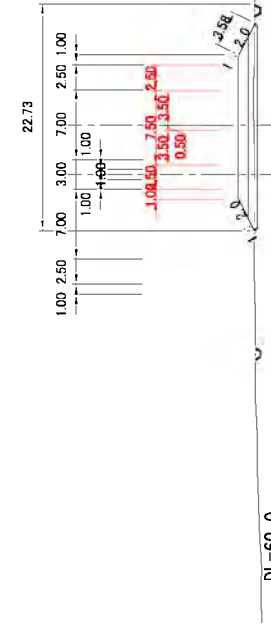
FH =51.11



DL=40.0

STA. 16+300

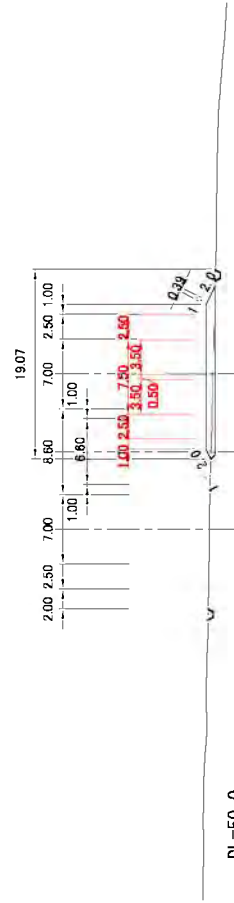
FH =54.22



DL=60.0

STA. 16+600

FH =53.84



DL=50.0

KENYA NATIONAL HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL

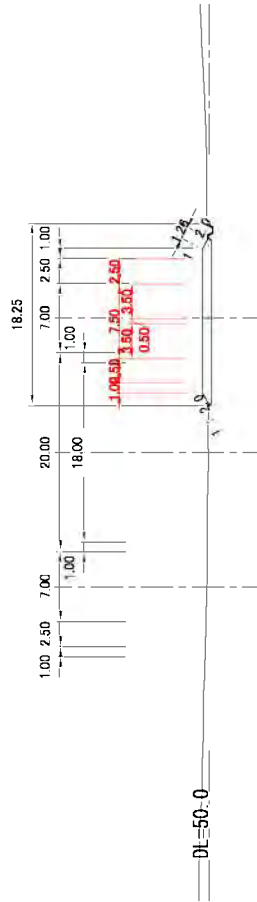
PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA

CROSS SECTION (24) MOMBASA SOUTHERN BYPASS

Drawing No. CS-24 SCALE 1/500 DATE OCT. 2011

STA. 17+100

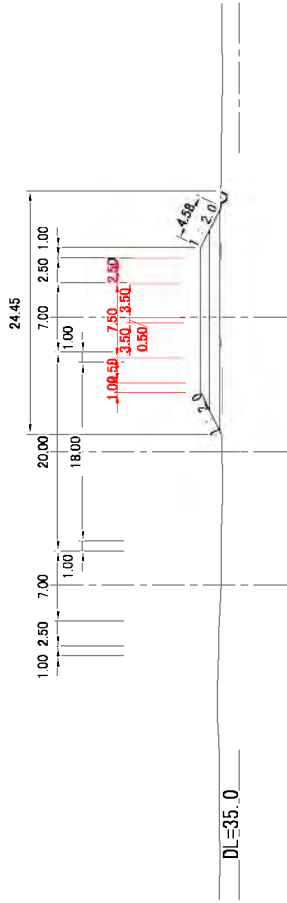
FH =50.74



DL=50.0

STA. 17+400

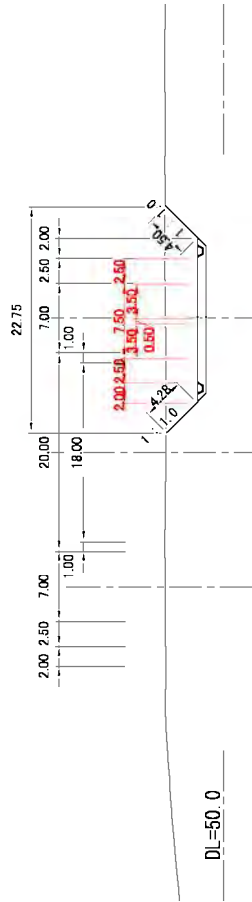
FH =38.84



DL=35.0

STA. 17+000

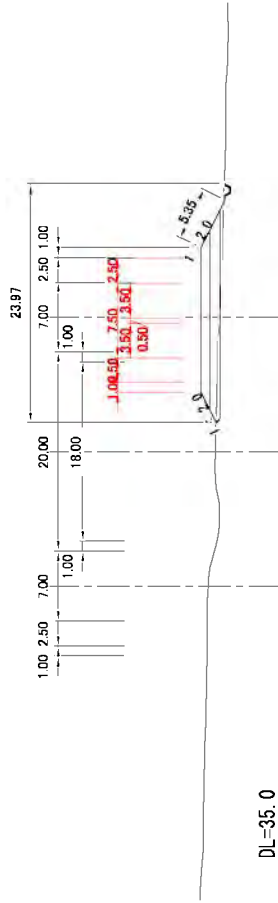
FH =52.71



DL=50.0

STA. 17+300

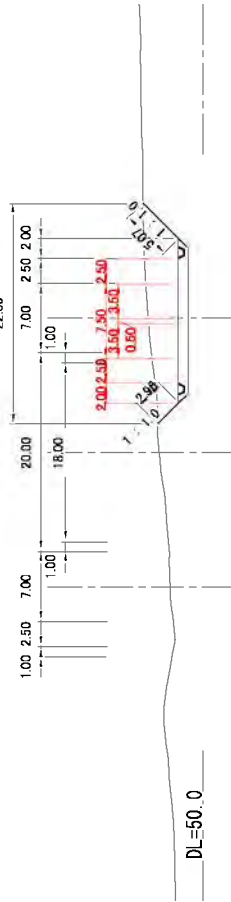
FH =42.92



DL=35.0

STA. 16+900

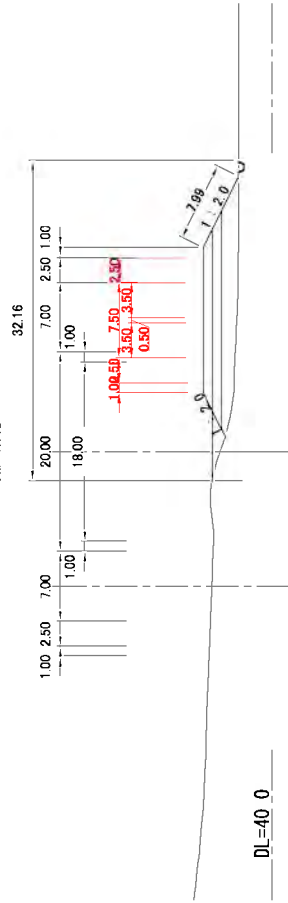
FH =52.44



DL=50.0

STA. 17+200

FH =46.92



DL=40.0

KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

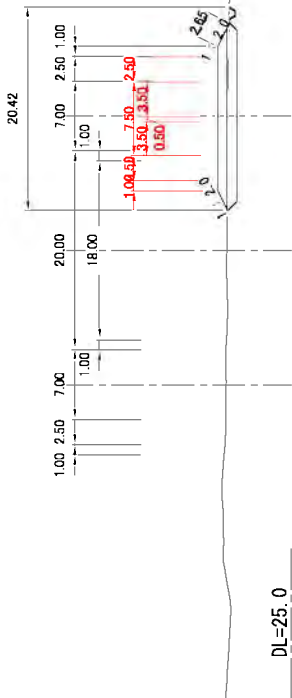
PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

TITLE:
CROSS SECTION (25)
MOMBASA SOUTHERN BYPASS

Drawing No.	CS-25
SCALE	1/500
DATE	OCT. 2011

STA. 17+700

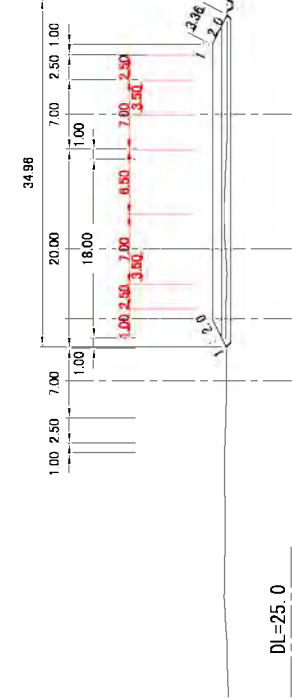
FH = 32.42



DL=25.0

STA. 18+000

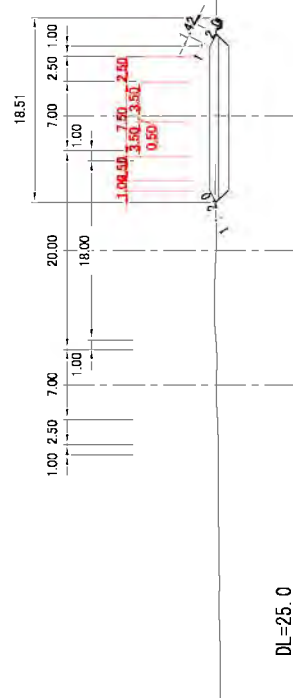
FH = 32.98



DL=25.0

STA. 17+600

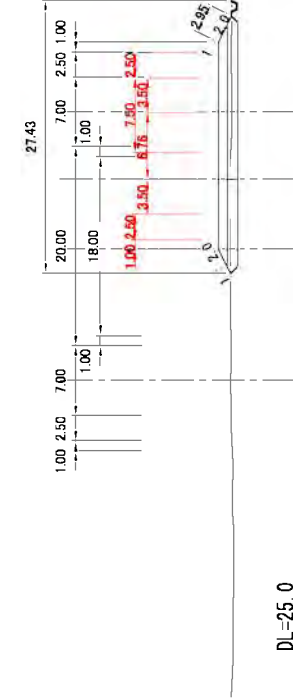
FH = 33.52



DL=25.0

STA. 17+900

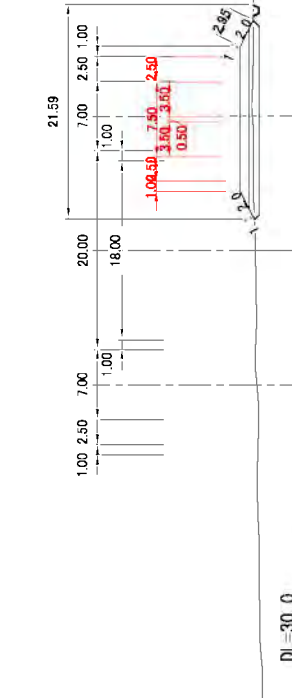
FH = 32.68



DL=25.0

STA. 17+500

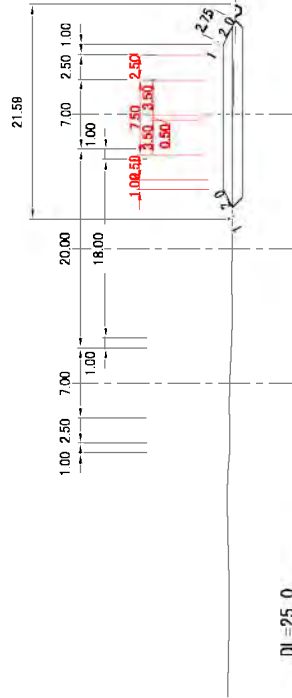
FH = 35.69



DL=30.0

STA. 17+800

FH = 32.38



DL=25.0

KENYA NATIONAL HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL

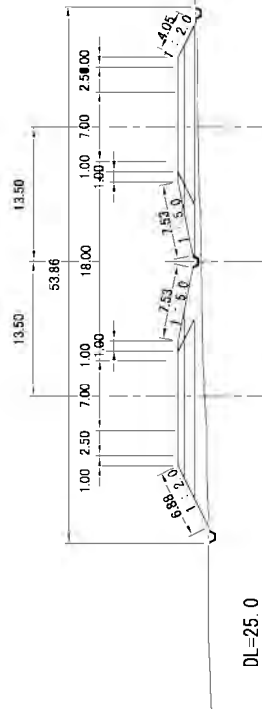
PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA

CROSS SECTION (26) MOMBASA SOUTHERN BYPASS

Drawing No. CS-26 SCALE 1/500 DATE OCT. 2011

STA. 18+300

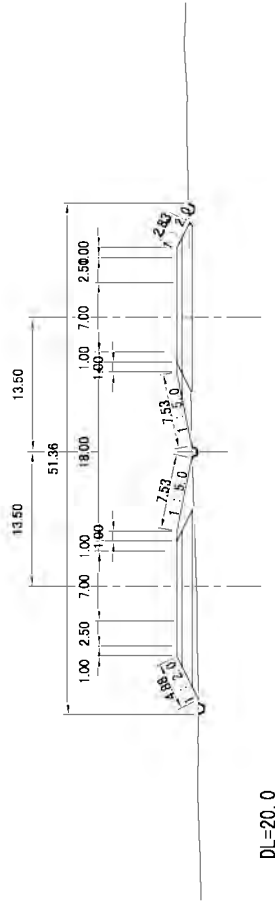
FH =33.69



DL=25.0

STA. 18+600

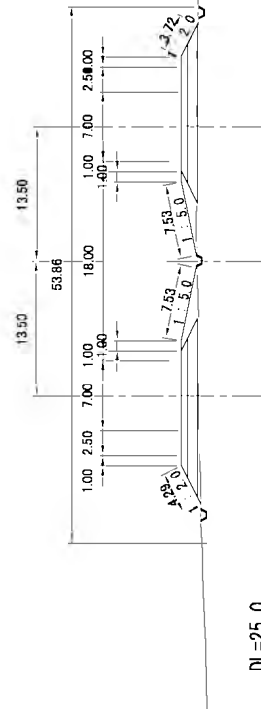
FH =30.13



DL=20.0

STA. 18+200

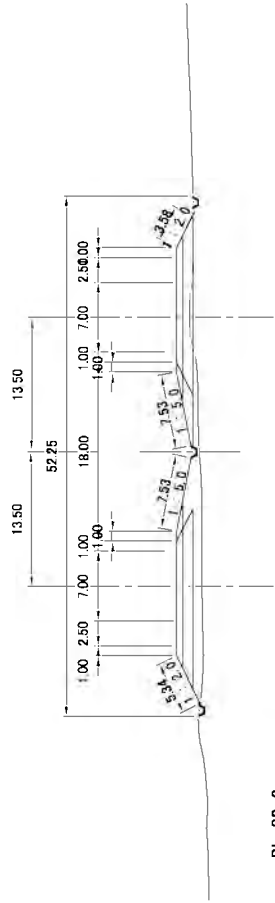
FH =33.58



DL=25.0

STA. 18+500

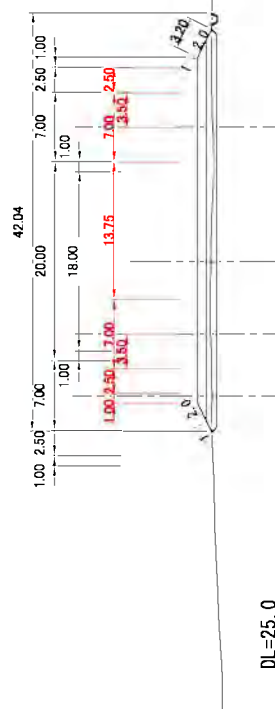
FH =31.38



DL=20.0

STA. 18+100

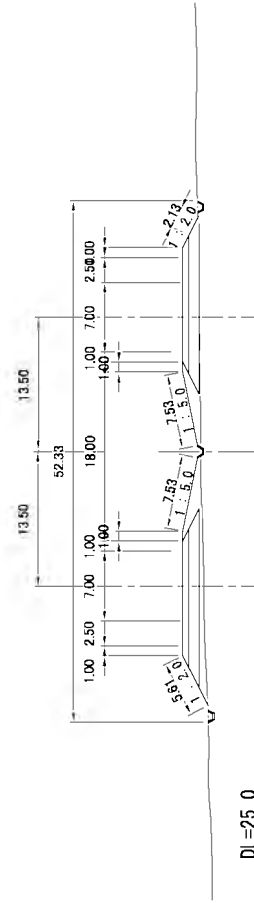
FH =33.28



DL=25.0

STA. 18+400

FH =32.63



DL=25.0

KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

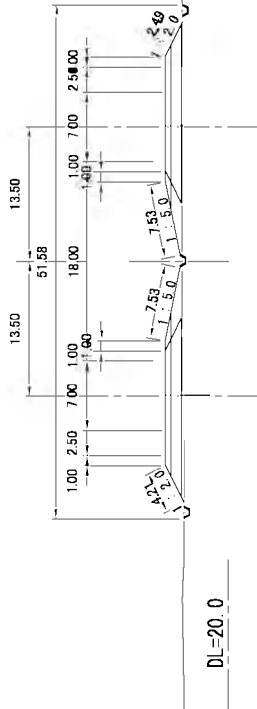
PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

CROSS SECTION (27)
MOMBASA SOUTHERN BYPASS

Drawing No. CS-27
SCALE 1/500
DATE OCT. 2011

STA. 18+900

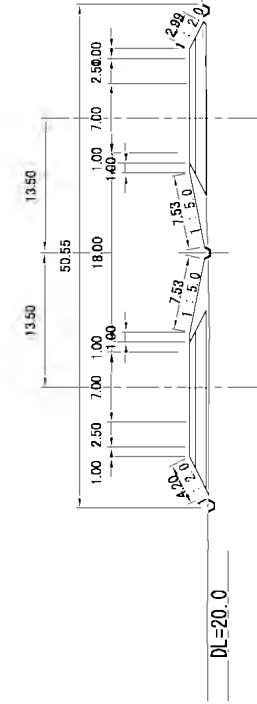
FH =26.38



DL=20.0

STA. 19+200

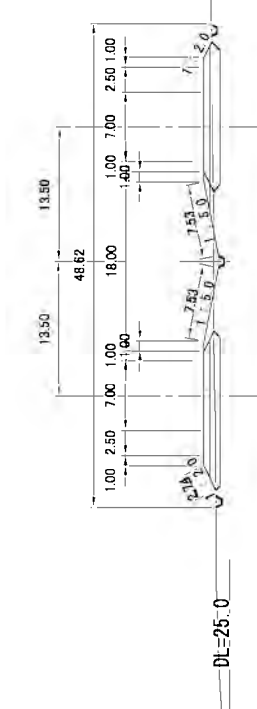
FH =23.93



DL=20.0

STA. 18+800

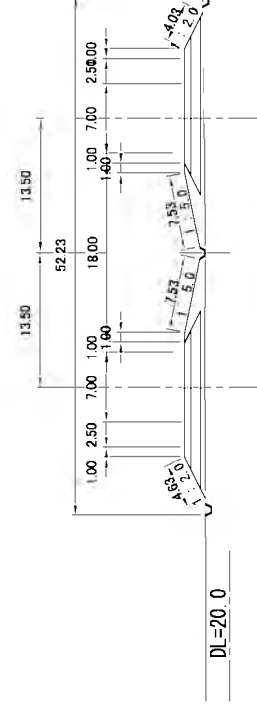
FH =27.63



DL=25.0

STA. 19+100

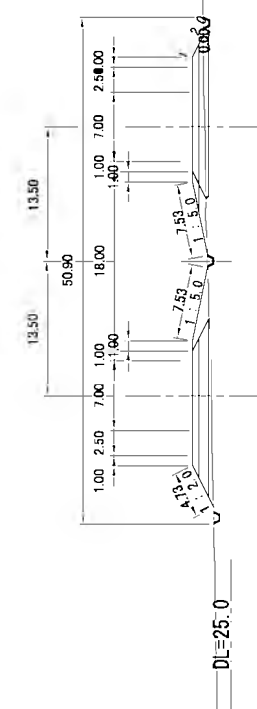
FH =24.53



DL=20.0

STA. 18+700

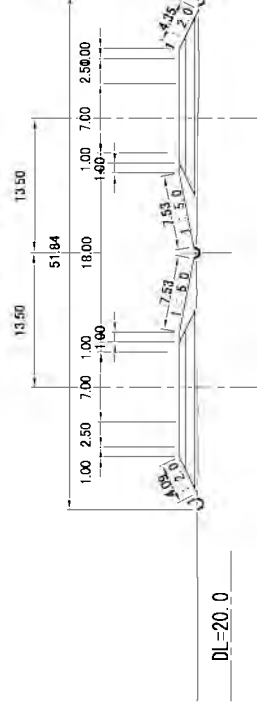
FH =28.88



DL=25.0

STA. 19+000

FH =25.21



DL=20.0

KENYA NATIONAL
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PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

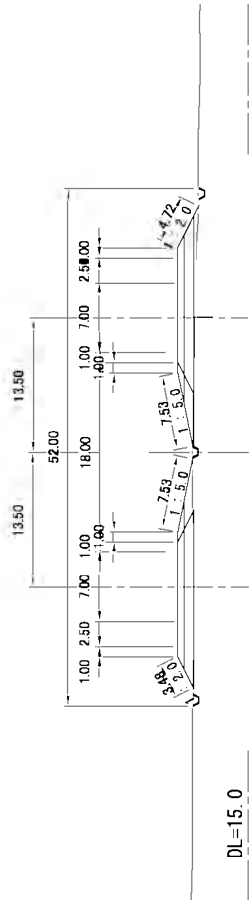
TITLE:

CROSS SECTION (28)
MOMBASA SOUTHERN BYPASS

Drawing No.	CS-28
SCALE	1/500
DATE	OCT. 2011

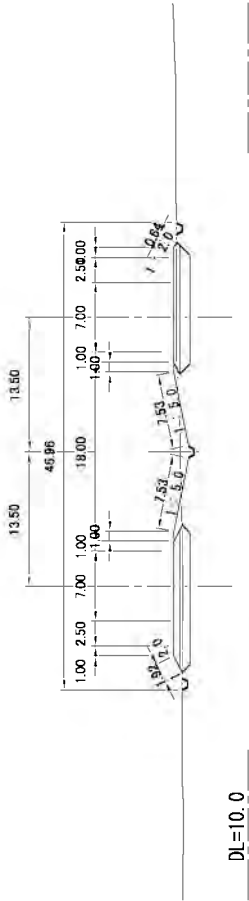
STA. 19+500

FH =22.13



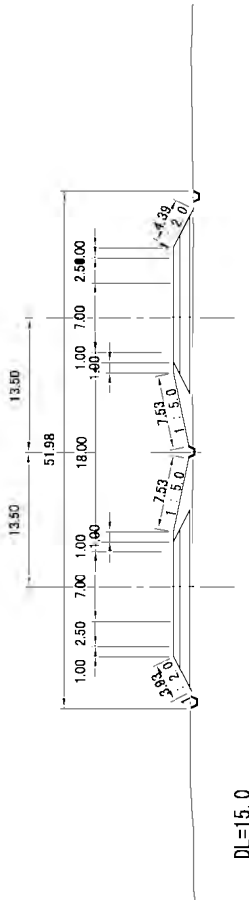
STA. 19+800

FH =17.53



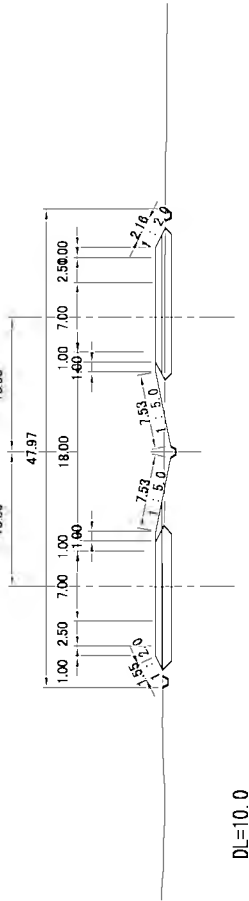
STA. 19+400

FH =22.73



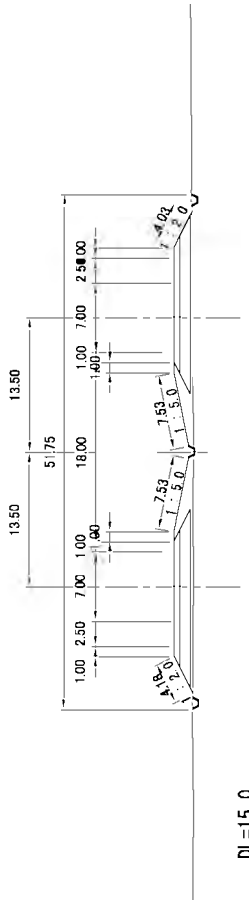
STA. 19+700

FH =19.53



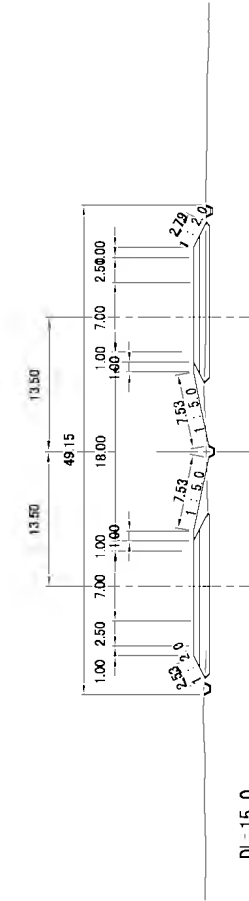
STA. 19+300

FH =23.33



STA. 19+600

FH =21.35



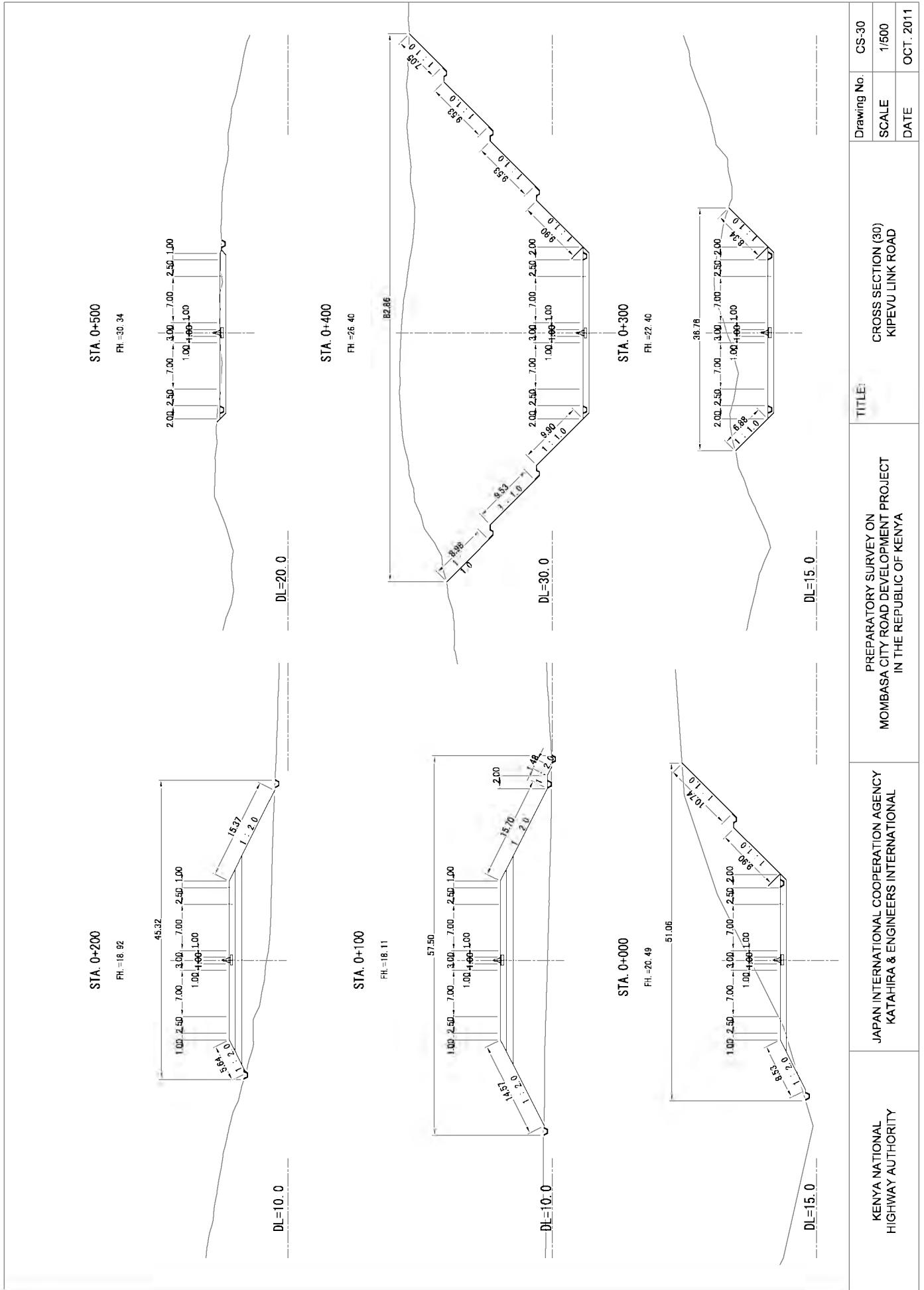
KENYA NATIONAL
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JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

TITLE:
CROSS SECTION (29)
MOMBASA SOUTHERN BYPASS

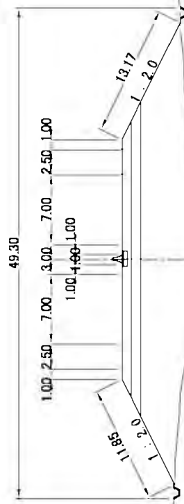
Drawing No.	CS-29
SCALE	1/500
DATE	OCT. 2011



KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	CROSS SECTION (30) KIPEVU LINK ROAD	Drawing No.	CS-30
					SCALE	1/500
					DATE	OCT. 2011

STA. 0+800

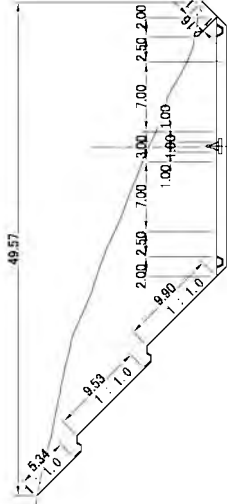
FH = 27.60



DL = 15.0

STA. 1+100

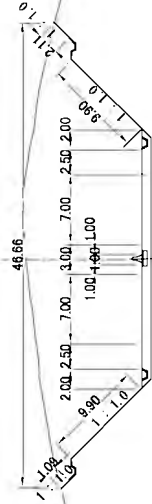
FH = 17.40



DL = 10.0

STA. 0+700

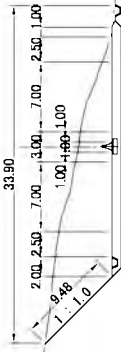
FH = 30.94



DL = 25.0

STA. 1+000

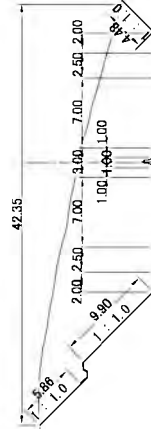
FH = 20.80



DL = 15.0

STA. 0+600

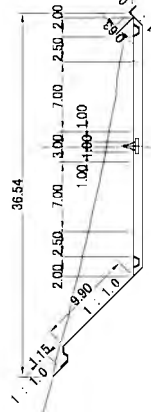
FH = 32.18



DL = 25.0

STA. 0+900

FH = 24.20

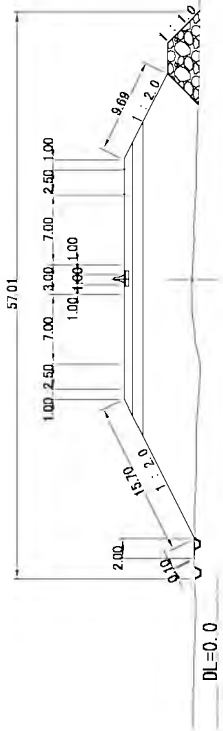


DL = 15.0

KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	
			CROSS SECTION (31) KIPEVU LINK ROAD	
			Drawing No.	CS-31
			SCALE	1/500
			DATE	OCT. 2011

STA. 1+400

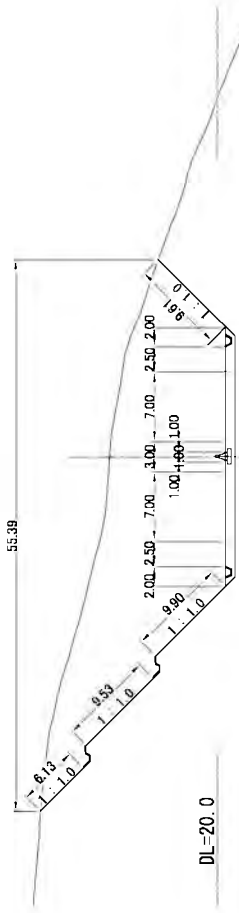
FH = 9.42



DL=0.0

STA. 1+700

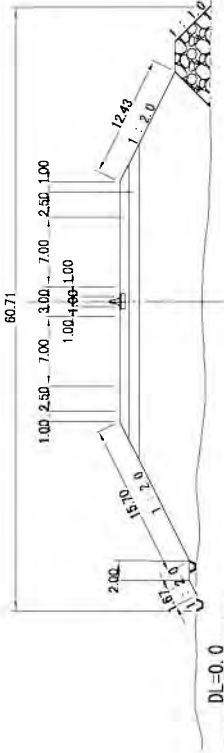
FH = 19.20



DL=20.0

STA. 1+300

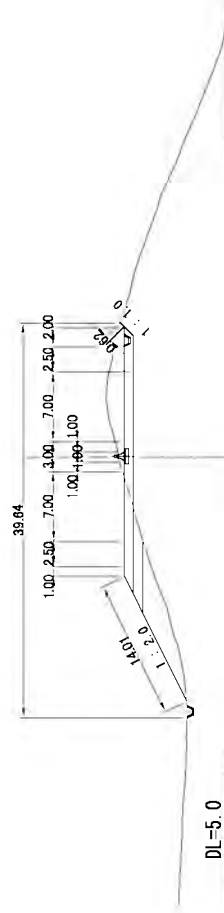
FH = 0.66



DL=0.0

STA. 1+600

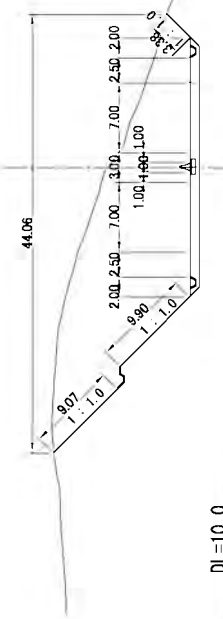
FH = 15.20



DL=5.0

STA. 1+200

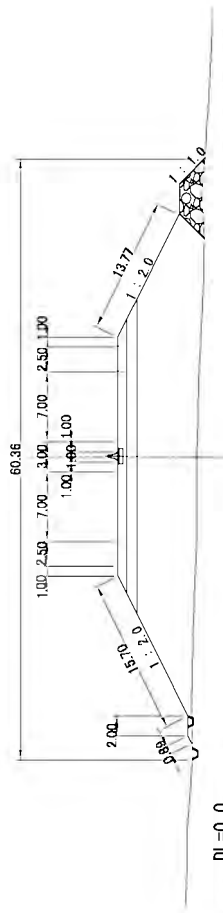
FH = 14.00



DL=10.0

STA. 1+500

FH = 11.26



DL=0.0

KENYA NATIONAL
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KATAHIRA & ENGINEERS INTERNATIONAL

PREPARATORY SURVEY ON
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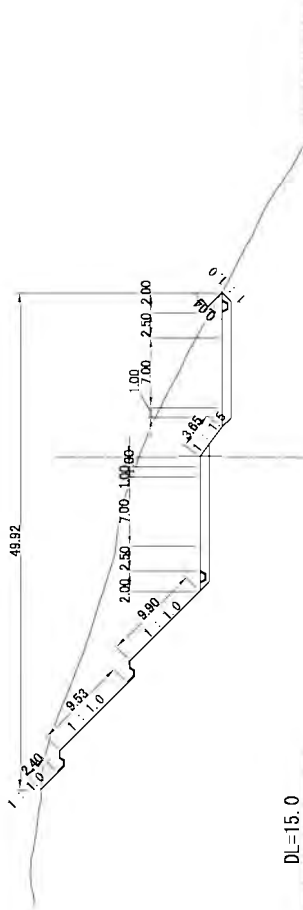
TITLE:

CROSS SECTION (32)
KIPEVU LINK ROAD

Drawing No.	CS-32
SCALE	1/500
DATE	OCT. 2011

STA. 2+700

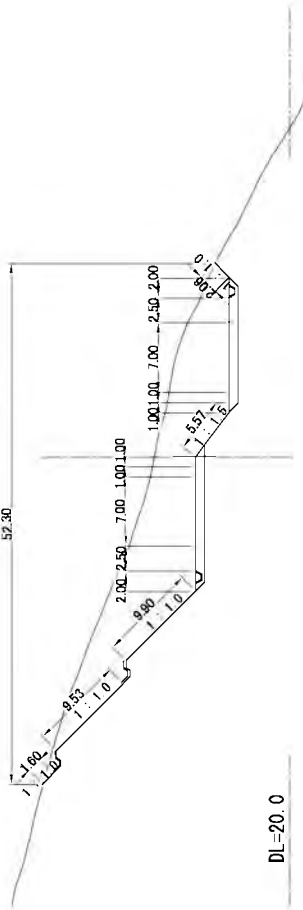
FH = 25.48 H = -2.20



DL = 15.0

STA. 2+600

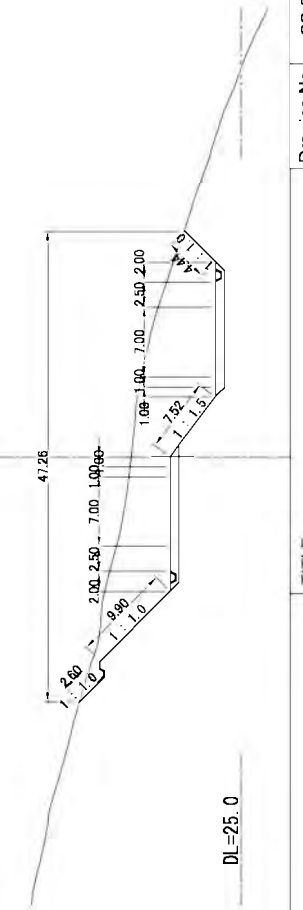
FH = 29.38 H = -3.34



DL = 20.0

STA. 2+500

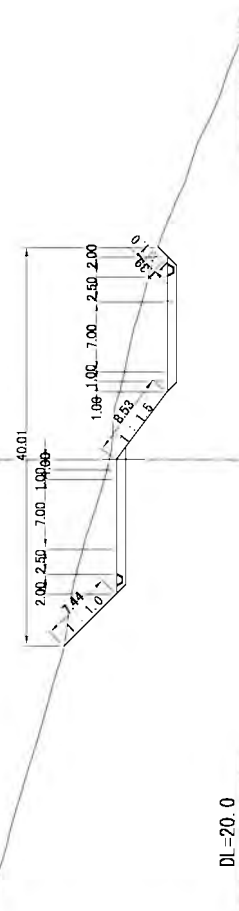
FH = 32.11 H = -4.52



DL = 25.0

STA. 2+400

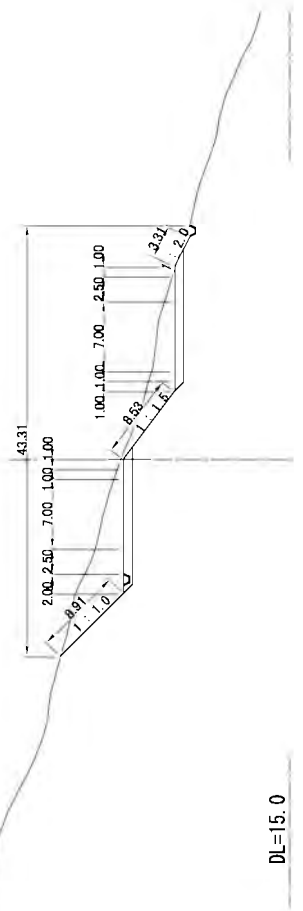
FH = 32.46 H = -5.12



DL = 20.0

STA. 2+300

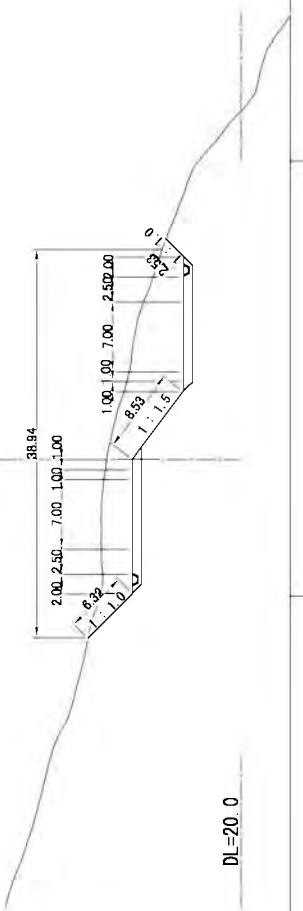
FH = 31.68 H = -5.12



DL = 15.0

STA. 2+200

FH = 30.88 H = -5.12



DL = 20.0

KENYA NATIONAL HIGHWAY AUTHORITY	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	PREPARATORY SURVEY ON MOMBASA CITY ROAD DEVELOPMENT PROJECT IN THE REPUBLIC OF KENYA	TITLE:	CROSS SECTION (34)	Drawing No.	CS-34
				KIPEVU LINK ROAD	SCALE	1/500
					DATE	OCT. 2011

STA. 3+000

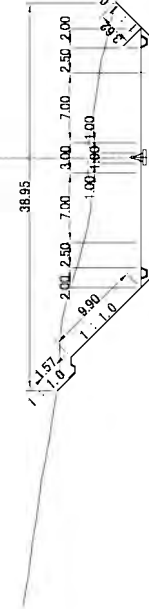
FH = 16.98



DL=10.0

STA. 3+300

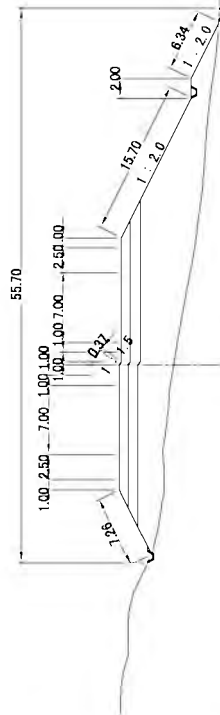
FH = 18.96



DL=15.0

STA. 2+900

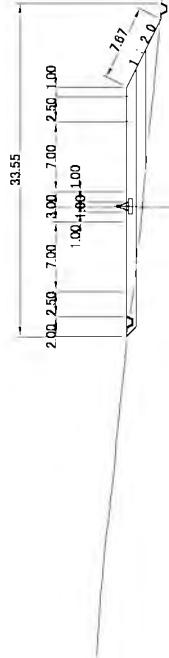
FH = 18.32 H = -0.22



DL=5.0

STA. 3+200

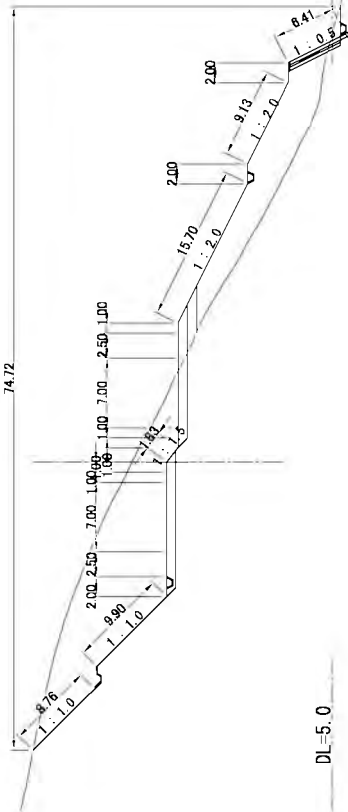
FH = 17.42



DL=10.0

STA. 2+800

FH = 21.58 H = -1.10



DL=5.0

STA. 3+100

FH = 16.43



DL=10.0

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PREPARATORY SURVEY ON
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IN THE REPUBLIC OF KENYA

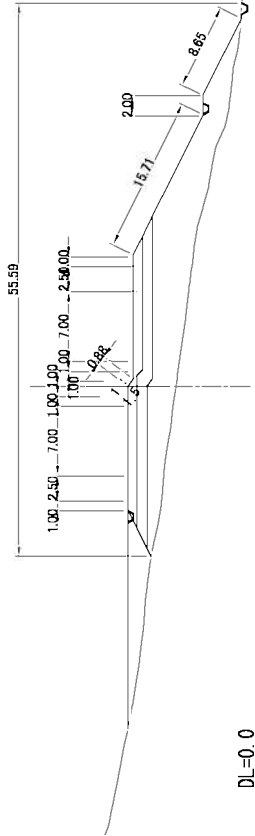
TITLE:

CROSS SECTION (35)
KIPEVU LINK ROAD

Drawing No.	CS-35
SCALE	1/500
DATE	OCT. 2011

STA. 3+600

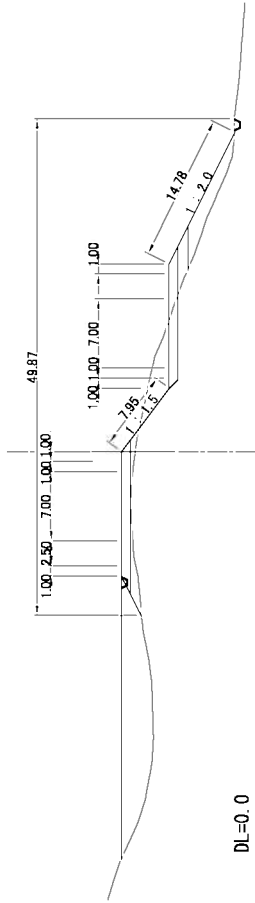
FH = 12.84 H = -0.53



DL=0.0

STA. 3+900

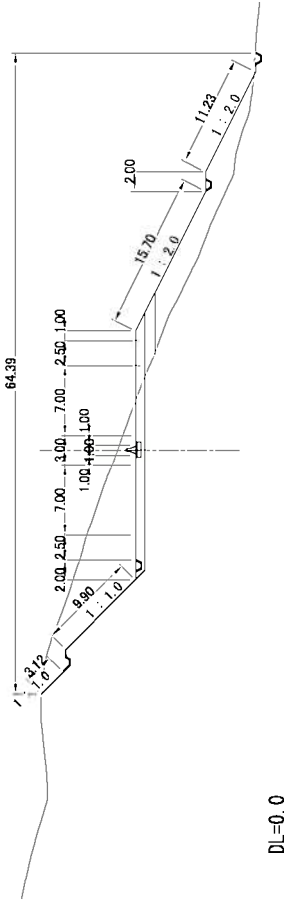
FH = 13.53 H = -4.77



DL=0.0

STA. 3+500

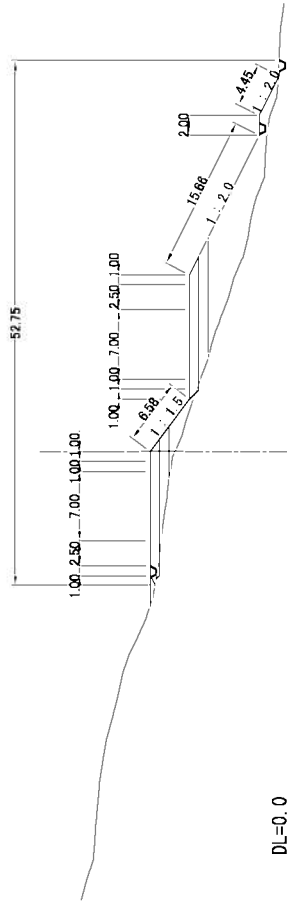
FH = 15.46



DL=0.0

STA. 3+800

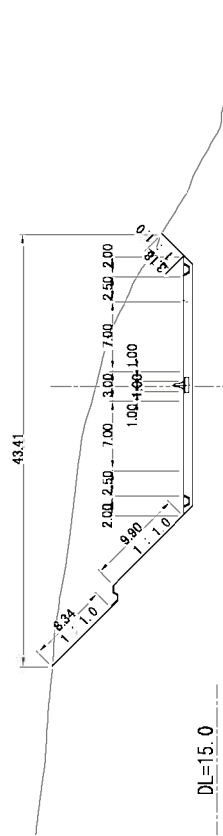
FH = 13.98 H = -3.95



DL=0.0

STA. 3+400

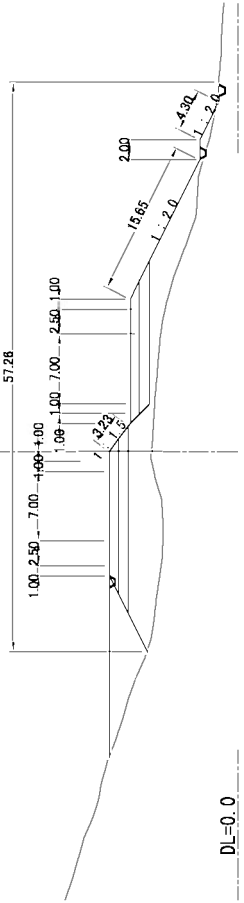
FH = 18.34



DL=15.0

STA. 3+700

FH = 12.96 H = -2.10



DL=0.0

KENYA NATIONAL
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PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
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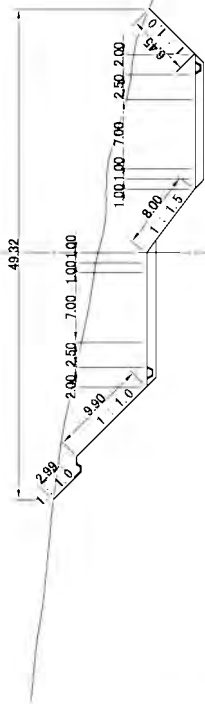
TITLE:

CROSS SECTION (36)
KIPEVU LINK ROAD

Drawing No.	CS-36
SCALE	1/500
DATE	OCT. 2011

STA. 4+200

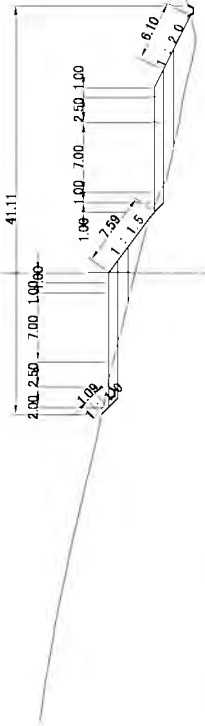
FH = 15.36 H = 4.80



DL=5.0

STA. 4+500

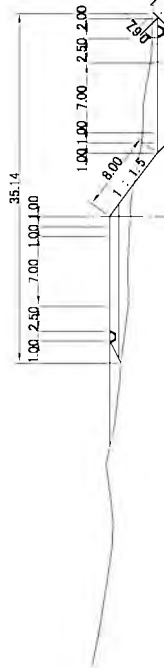
FH = 24.12 H = 4.56



DL=10.0

STA. 4+100

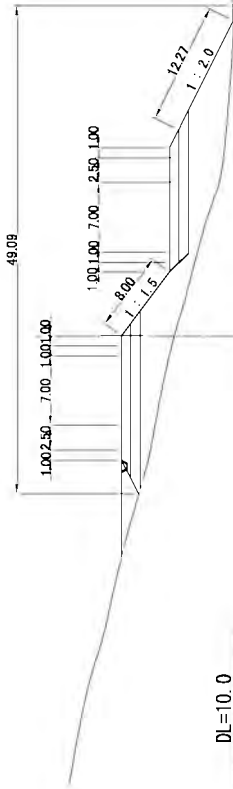
FH = 12.59 H = 4.80



DL=0.0

STA. 4+400

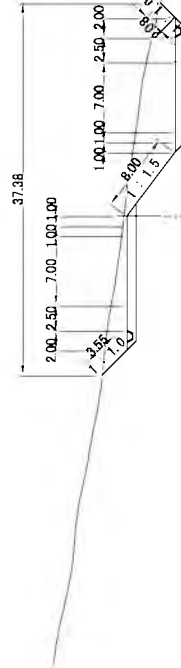
FH = 21.36 H = 4.80



DL=10.0

STA. 4+000

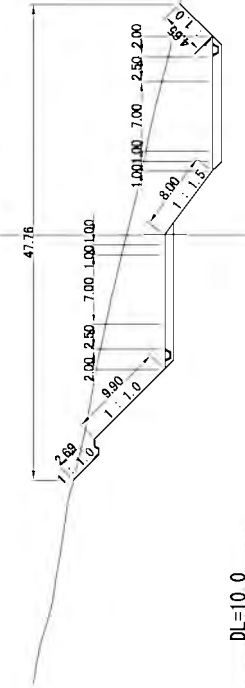
FH = 12.12 H = 4.80



DL=0.0

STA. 4+300

FH = 18.36 H = 4.80



DL=10.0

KENYA NATIONAL
HIGHWAY AUTHORITY

JAPAN INTERNATIONAL COOPERATION AGENCY
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TITLE:
PREPARATORY SURVEY ON
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STA. 4+800

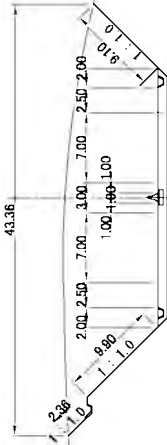
FH. -18.96



DL=10.0

STA. 5+100

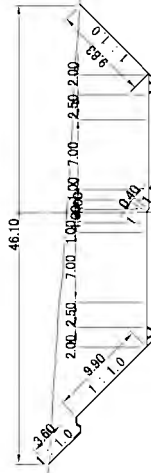
FH. -9.96



DL=5.0

STA. 4+700

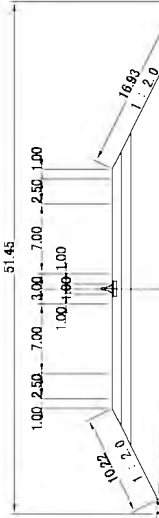
FH. -21.96 H. -0.24



DL=15.0

STA. 5+000

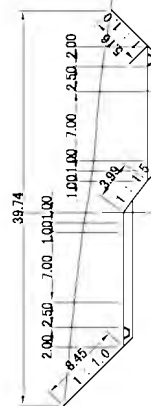
FH. -12.96



DL=5.0

STA. 4+600

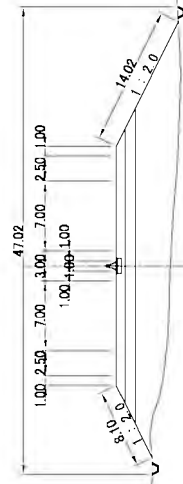
FH. -24.42 H. -2.40



DL=15.0

STA. 4+900

FH. -15.96



DL=5.0

KENYA NATIONAL
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JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

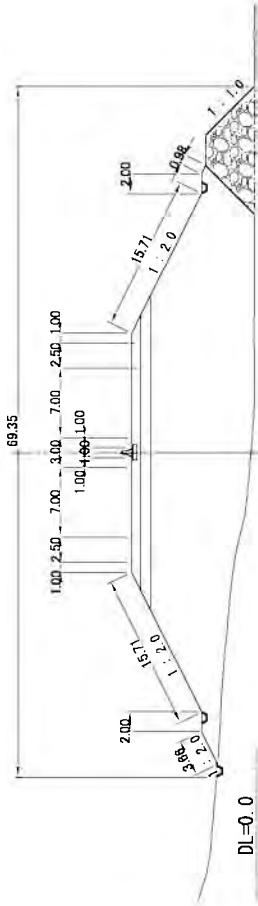
PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

CROSS SECTION (38)
KIPEVU LINK ROAD

Drawing No.	CS-38
SCALE	1/500
DATE	OCT. 2011

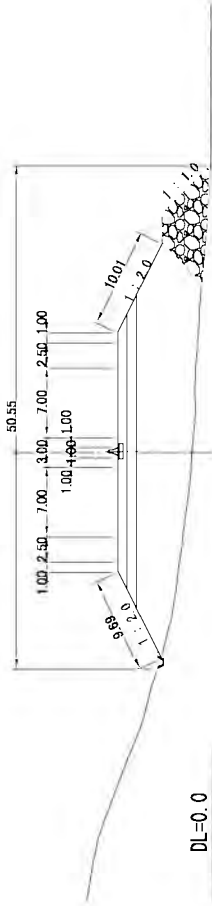
STA. 5+400

FH = 12.54



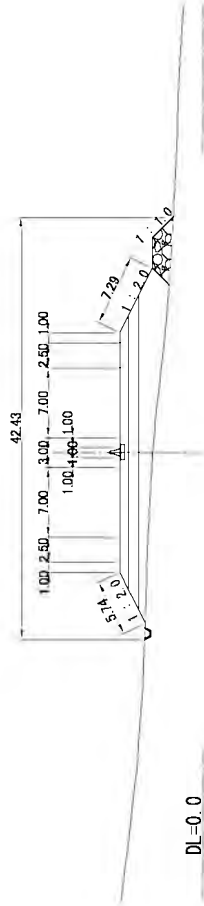
STA. 5+300

FH = 9.56



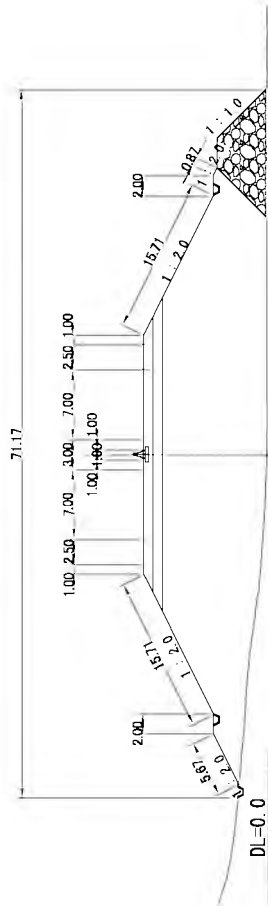
STA. 5+200

FH = 8.36



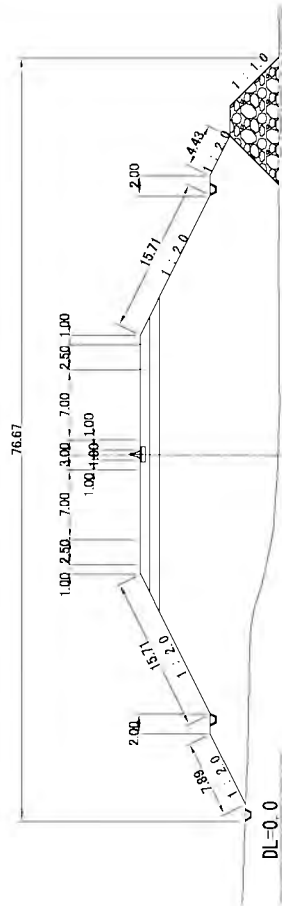
STA. 5+600

FH = 12.48



STA. 5+500

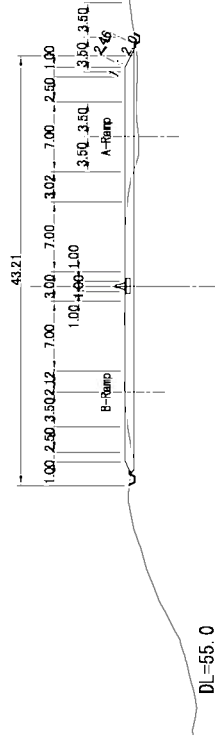
FH = 13.19



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				SCALE 1/500
				DATE OCT. 2011

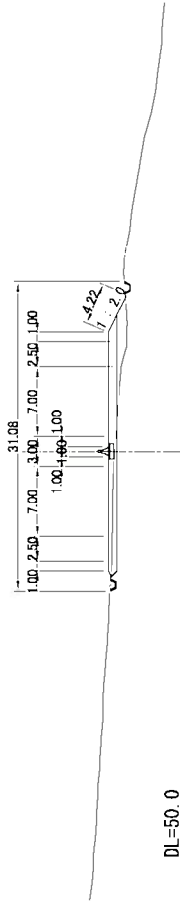
STA. 0+300

FH = 64.14



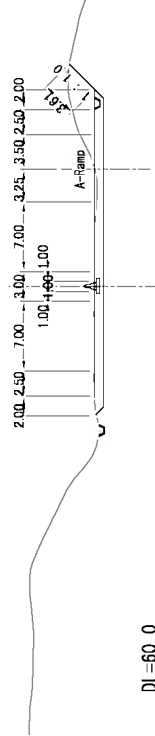
STA. 0+600

FH = 57.34



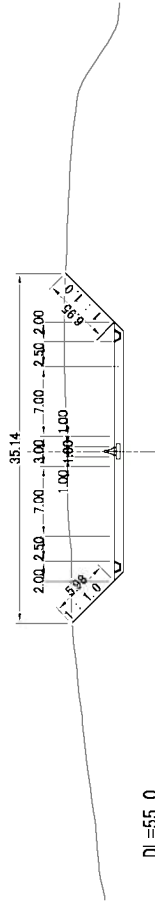
STA. 0+200

FH = 66.458



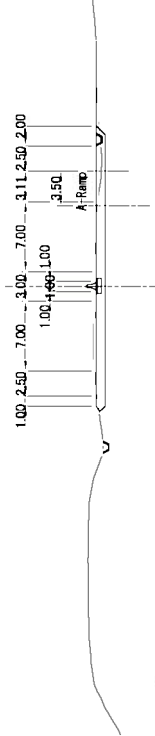
STA. 0+500

FH = 59.46



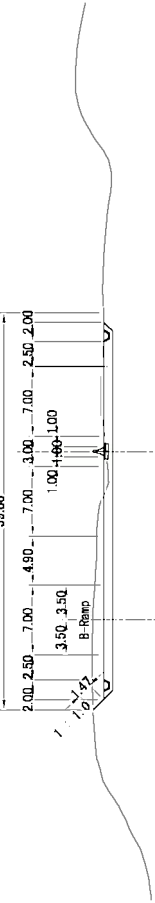
STA. 0+100

FH = 67.516



STA. 0+400

FH = 61.80



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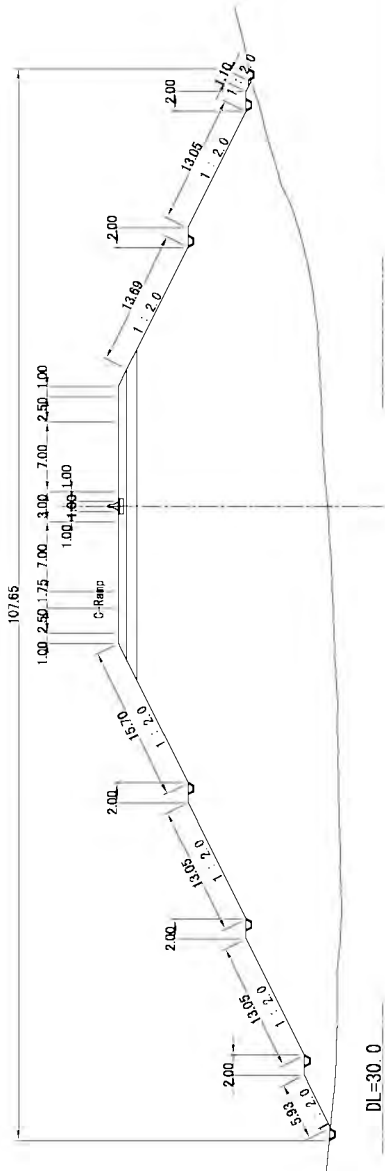
PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

TITLE:
CROSS SECTION (40)
A109 NAIROBI-MOMBASA ROAD

Drawing No.	CS-40
SCALE	1 - 500
DATE	OCT. 2011

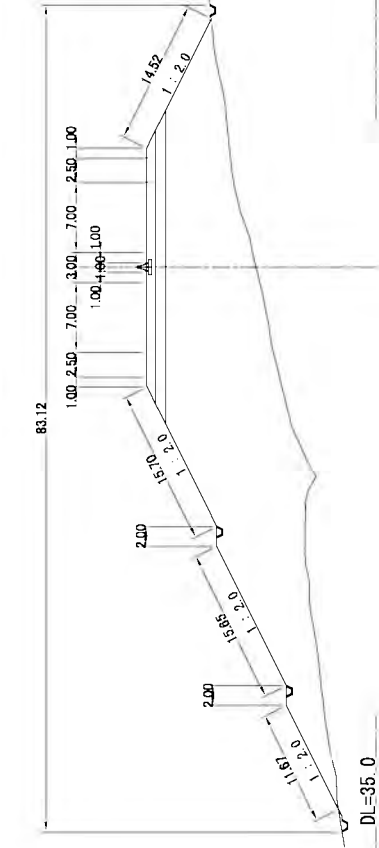
STA. 0+800

FH = 56 59



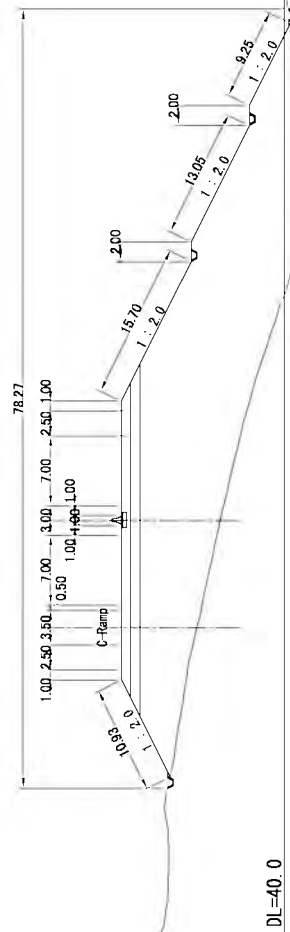
STA. 0+900

FH = 58 06



STA. 0+700

FH = 56 35



DL=40.0

DL=35.0

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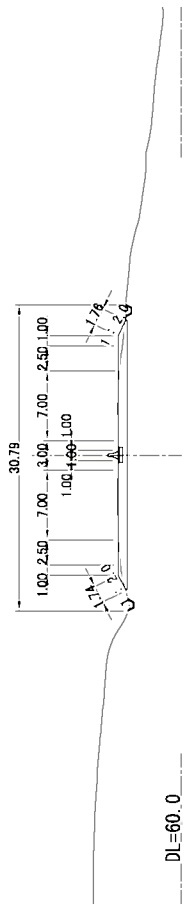
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PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

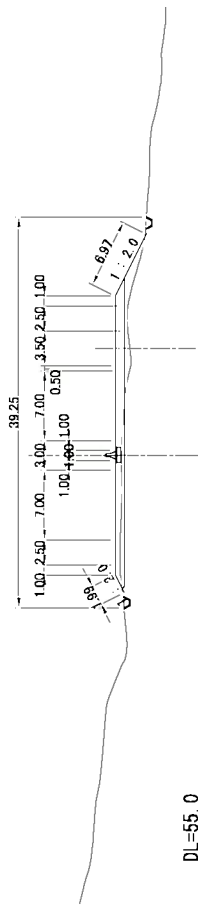
TITLE:
CROSS SECTION (41)
A109 NAIROBI-MOMBASA ROAD

Drawing No.	CS-41
SCALE	1 : 500
DATE	OCT. 2011

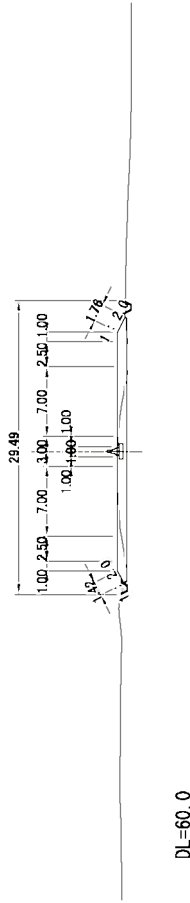
STA. 1+200
FH = 66.38



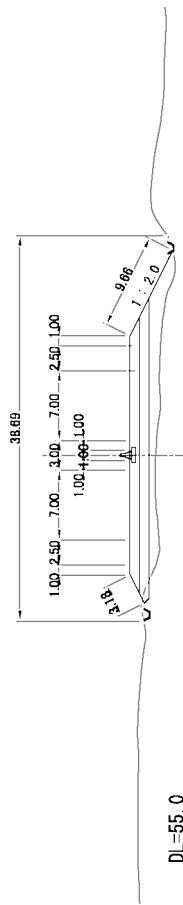
STA. 1+100
FH = 63.46



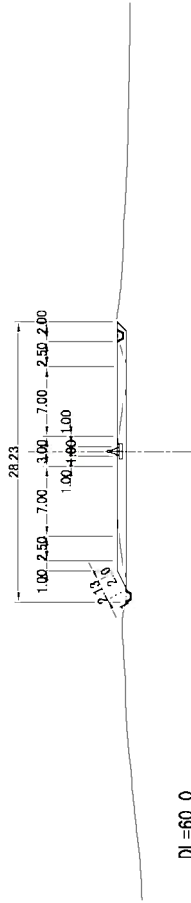
STA. 1+400
FH = 67.45



STA. 1+000
FH = 60.66



STA. 1+300
FH = 67.72



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HIGHWAY AUTHORITY

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PREPARATORY SURVEY ON
MOMBASA CITY ROAD DEVELOPMENT PROJECT
IN THE REPUBLIC OF KENYA

TITLE:
CROSS SECTION (42)
A109 NAIROBI-MOMBASA ROAD

Drawing No.	CS-42
SCALE	1 - 500
DATE	OCT. 2011