

**PREPARATORY SURVEY  
ON  
EASTERN CORRIDOR DEVELOPMENT PROJECT  
IN  
THE REPUBLIC OF GHANA**

**FINAL REPORT  
APPENDIX (DRAWINGS)**

**JANUARY 2013**

**JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)**

**CENTRAL CONSULTANT INC.  
PADECO CO., LTD.**

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# DRAWING TITLE

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**PART I**

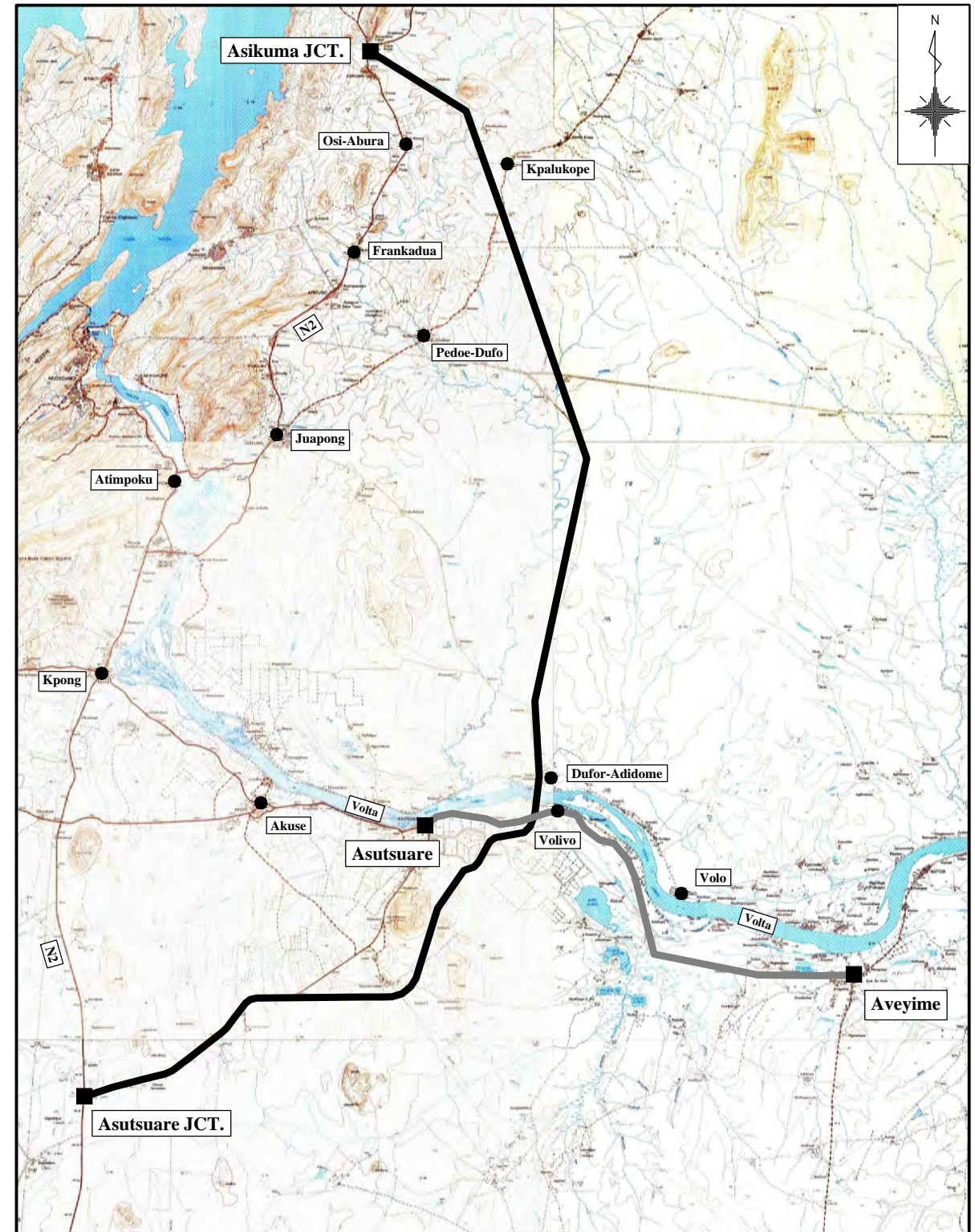
**NEW ROAD BETWEEN ASUTSUARE JCT. – ASIKUMA JCT.  
DRAWINGS**

# LOCATION MAP

**GENERAL MAP S=1:5,000,000**



**DETAIL MAP S=1:300,000**



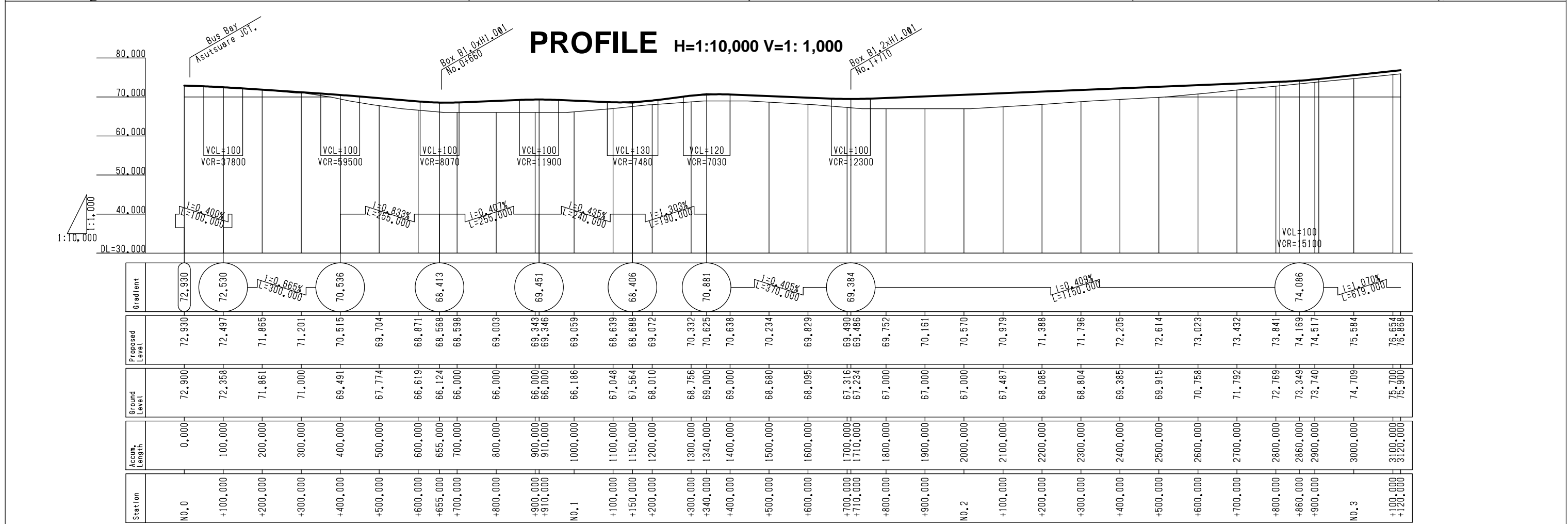
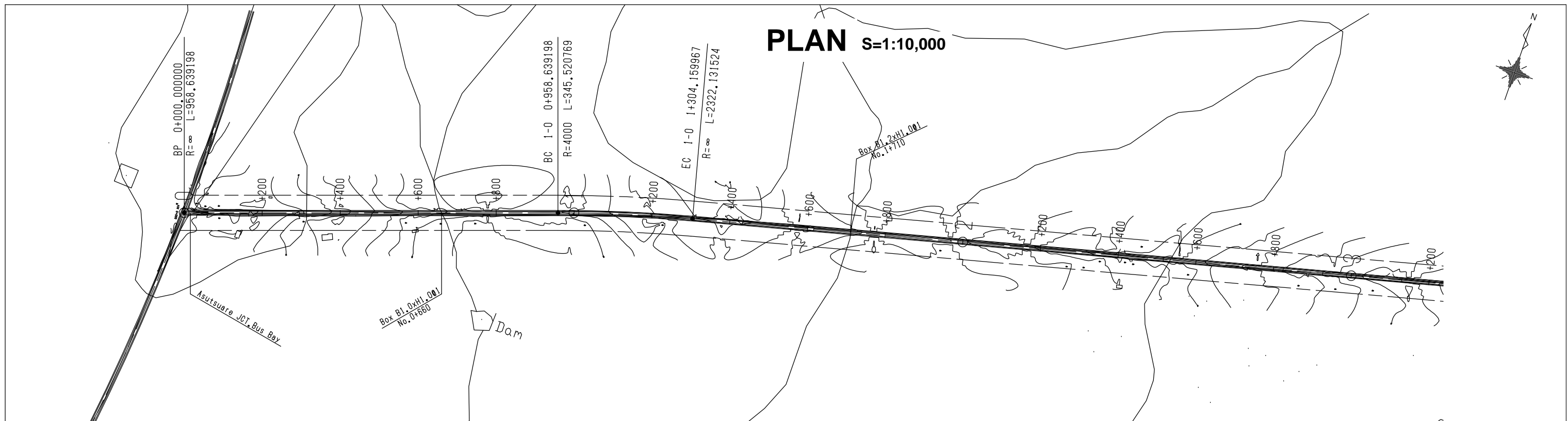
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					JAN. 2013	



**REPUBLIC OF GHANA  
MINISTRY OF ROADS AND HIGHWAYS  
GHANA HIGHWAY AUTHORITY**



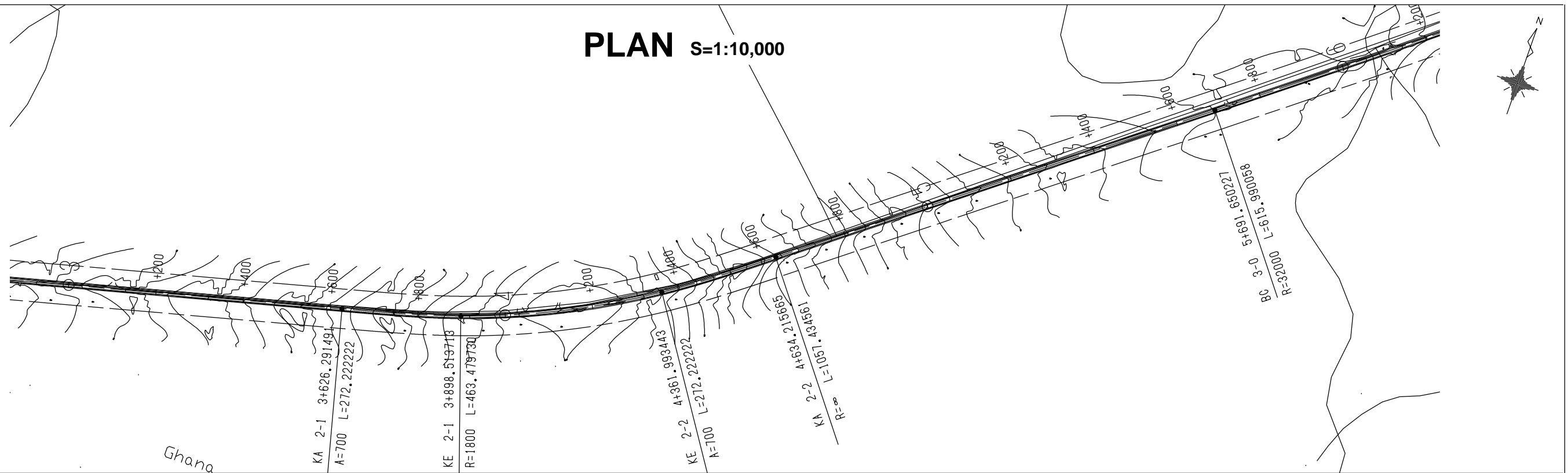
Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. LOCATION MAP**

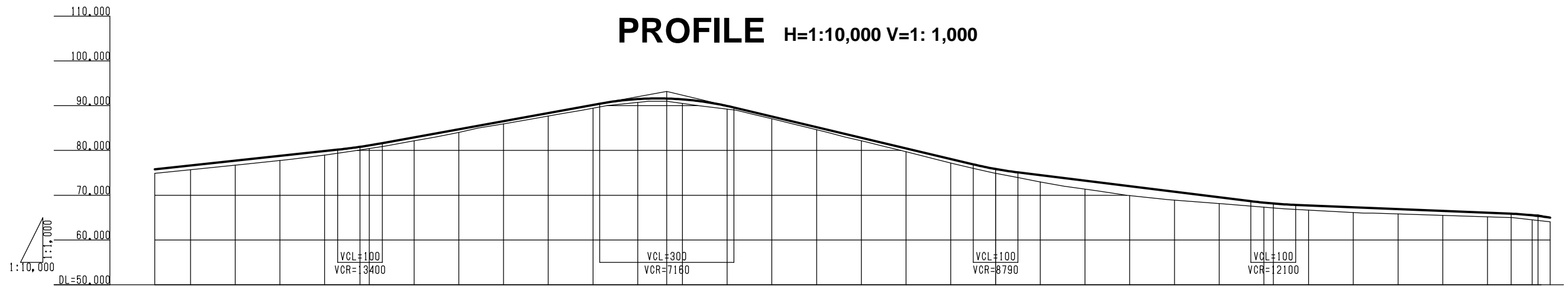


Designed by:	Signature:	<u>Revision</u>				<u>Notes</u>		<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b>		Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>		
Checked by:	Signature:					1. All dimensions are in metre.		 <small>REPUBLIC OF GHANA</small>			<b>ASUTSUARE JCT. - ASIKUMA JCT. PLAN &amp; PROFILE(1/23)</b>		
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:								Scale : As Shown
				JAN. 2013									

# PLAN S=1:10,000



# PROFILE H=1:10,000 V=1:1,000



Station	Accum. Length	Ground Level	Proposed Level	Gradient
+20.000	3020.000	74.903	75.798	
+100.000	3100.000	75.700	76.654	
+200.000	3200.000	76.705	77.724	
+300.000	3300.000	77.767	78.794	
+400.000	3400.000	78.959	79.864	
+479.000	3479.000	80.093	80.803	
+500.000	3500.000	80.426	81.122	
+600.000	3600.000	82.147	82.906	
+700.000	3700.000	84.027	84.722	
+800.000	3800.000	85.945	86.538	
+900.000	3900.000	87.677	88.353	
NO. 4	4000.000	89.440	90.169	
+100.000	4100.000	90.743	91.480	
+165.000	4165.000	91.000	91.594	
+200.000	4200.000	90.508	91.411	
+300.000	4300.000	89.236	89.945	
+400.000	4400.000	87.072	87.587	
+500.000	4500.000	84.629	85.214	
+600.000	4600.000	82.163	82.840	
+700.000	4700.000	79.708	80.467	
+800.000	4800.000	77.183	78.093	
+900.000	4900.000	74.914	75.862	
NO. 5	5000.000	72.973	74.484	
+100.000	5100.000	71.360	73.248	
+200.000	5200.000	69.931	72.013	
+300.000	5300.000	68.892	70.777	
+400.000	5400.000	68.140	69.541	
+500.000	5500.000	67.347	68.340	
+521.000	5521.000	67.179	68.149	
+600.000	5600.000	66.684	67.722	
+700.000	5700.000	66.128	67.313	
+800.000	5800.000	65.821	66.904	
+900.000	5900.000	65.501	66.495	
NO. 6	6000.000	65.181	66.086	
+100.000	6100.000	64.501	65.525	
+140.000	6140.000	64.041	65.377	

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Notes

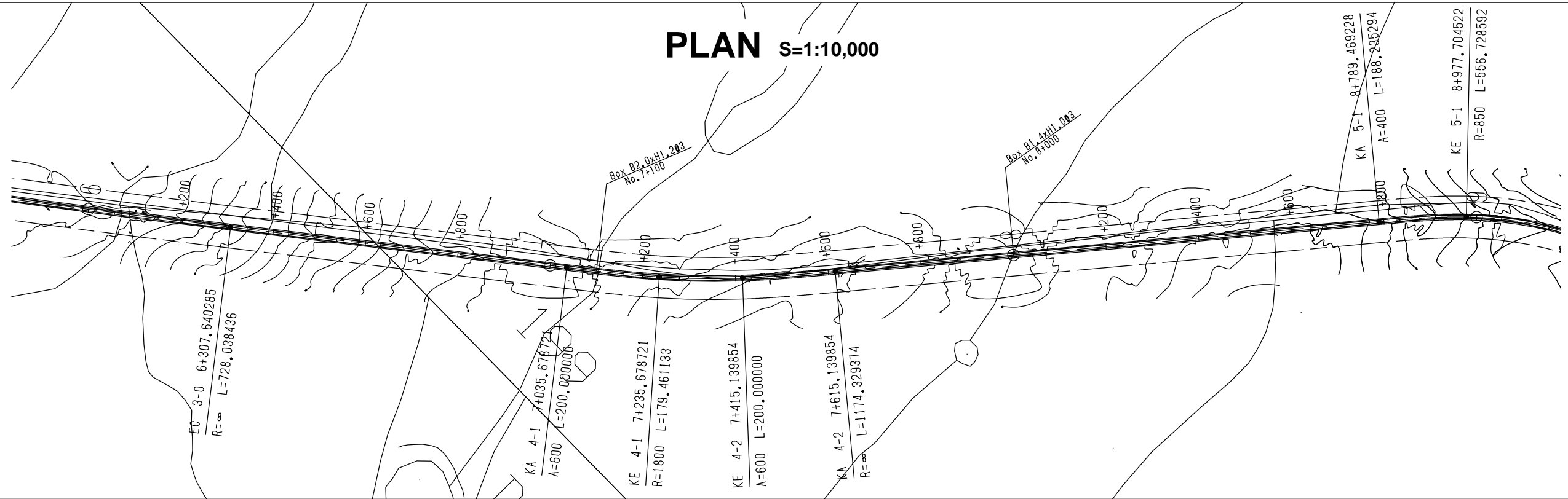
1. All dimensions are in metre.

REPUBLIC OF GHANA  
MINISTRY OF ROADS AND HIGHWAYS  
GHANA HIGHWAY AUTHORITY

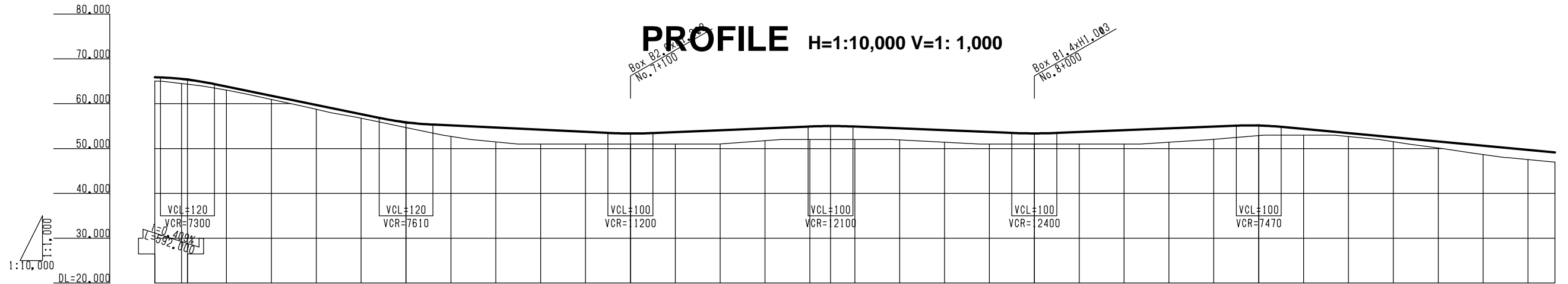
Project: JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA

Description: ASUTSUARE JCT. - ASIKUMA JCT. PLAN & PROFILE(2/23)

# PLAN S=1:10,000



# PROFILE H=1:10,000 V=1: 1,000



Station	Accum. Length	Ground Level	Proposed Level	Gradient
+40.000	6040.000	65.053	65.922	65.623
+100.000	6100.000	64.501	65.525	$i=2.052\%$ $L=487.000$
+113.000	6113.000	64.351	65.377	
+200.000	6200.000	63.054	63.838	55.631
+300.000	6300.000	60.954	61.786	$i=0.476\%$ $L=500.000$
+400.000	6400.000	58.764	59.734	
+500.000	6500.000	56.760	57.682	
+600.000	6600.000	54.692	55.667	
+700.000	6700.000	52.711	55.155	
+800.000	6800.000	51.473	54.679	
+900.000	6900.000	51.000	54.203	
N0.7	7000.000	51.000	53.727	
+100.000	7100.000	51.000	53.363	53.251
+200.000	7200.000	51.000	53.671	$i=0.420\%$ $L=446.000$
+300.000	7300.000	51.020	54.091	
+400.000	7400.000	51.746	54.511	
+500.000	7500.000	52.000	54.930	
+546.000	7546.000	52.000	55.021	
+600.000	7600.000	52.000	54.906	
+700.000	7700.000	51.913	54.501	
+800.000	7800.000	51.403	54.096	
+900.000	7900.000	51.000	53.691	
N0.8	8000.000	51.000	53.387	53.266
+100.000	8100.000	51.000	53.690	$i=0.405\%$ $L=454.000$
+200.000	8200.000	51.000	54.094	
+300.000	8300.000	51.406	54.499	$i=0.404\%$ $L=500.000$
+400.000	8400.000	52.046	54.903	
+500.000	8500.000	52.902	55.140	55.308
+600.000	8600.000	53.000	54.374	$i=0.934\%$ $L=1000.000$
+700.000	8700.000	52.682	53.440	
+800.000	8800.000	51.521	52.506	
+900.000	8900.000	50.140	51.572	
N0.9	9000.000	48.657	50.638	
+100.000	9100.000	47.557	49.704	
+160.000	9160.000	46.991	49.144	


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Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

**Notes**

1. All dimensions are in metre.

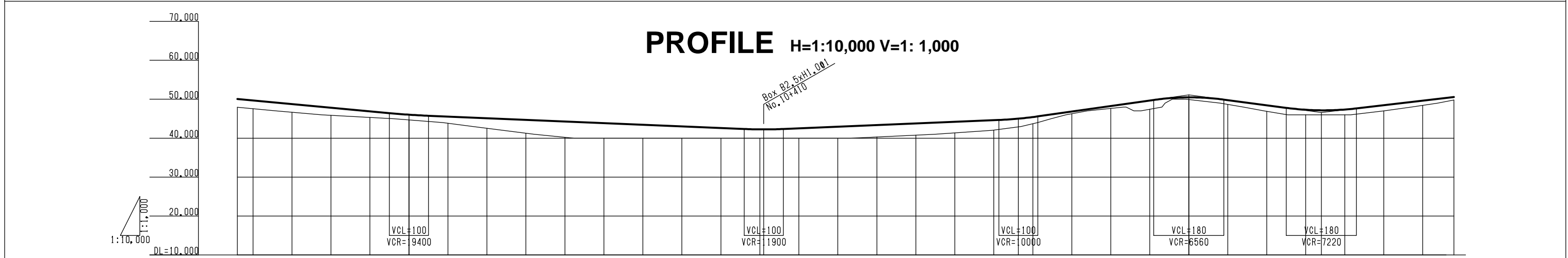
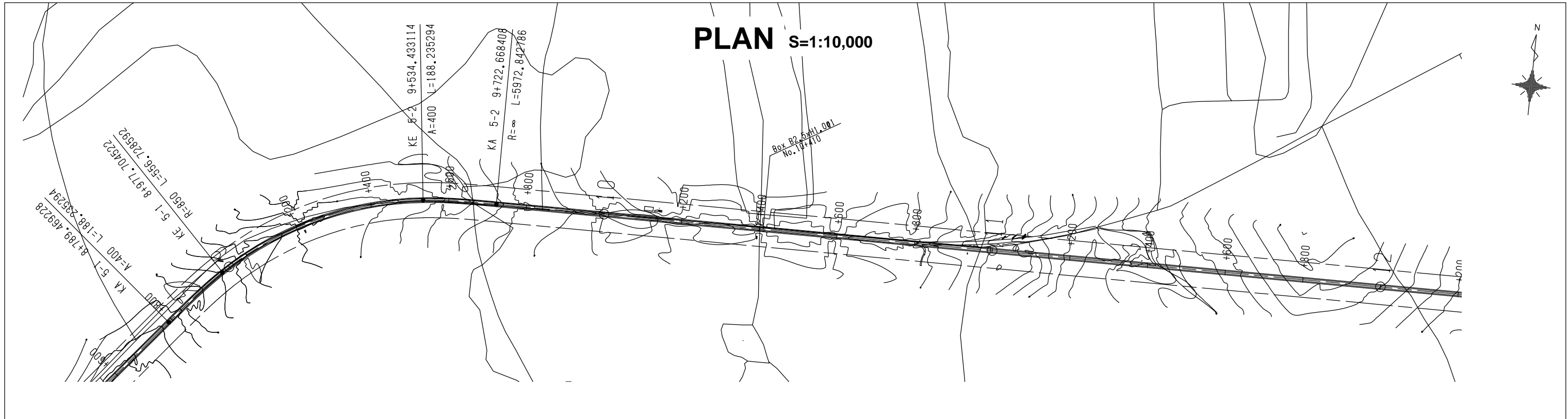
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



**Project:** JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA  
**Description:** ASUTSUARE JCT. - ASIKUMA JCT. PLAN & PROFILE(3/23)

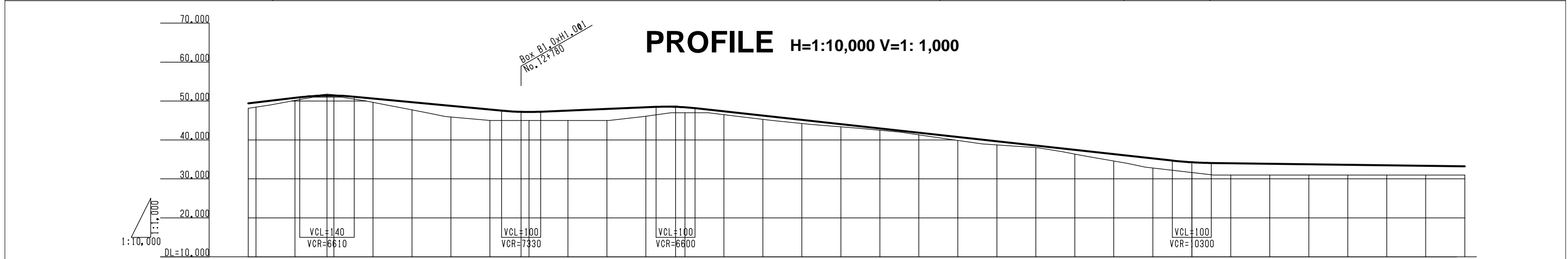
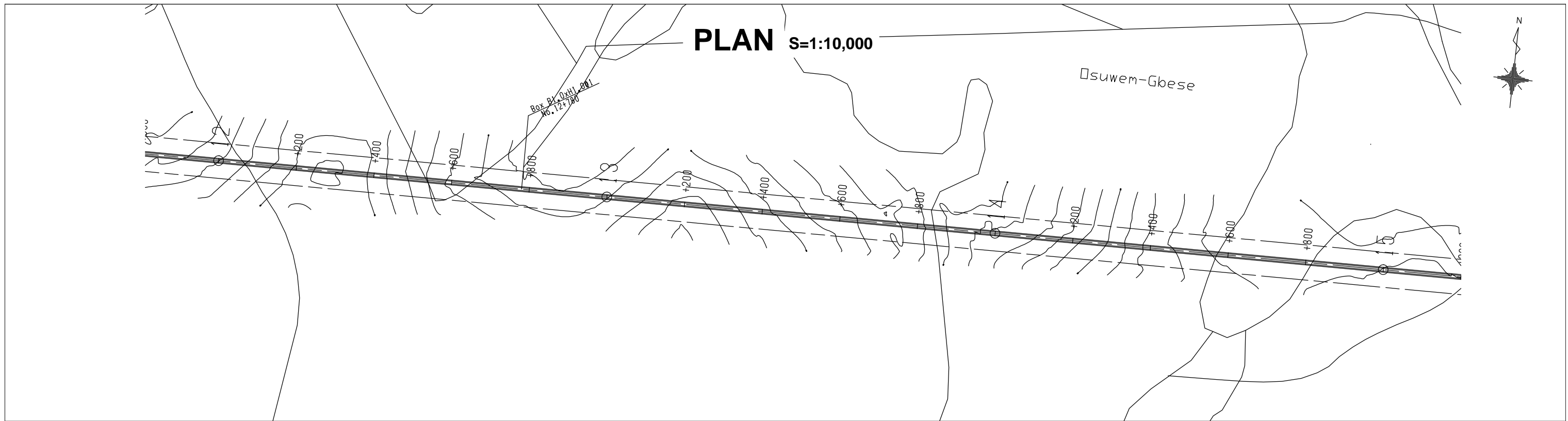
Scale : As Shown      Sheet 4/82





Station	Accum. Length	Ground Level	Proposed Level	Gradient
+60.000	9060.000	47.935	50.078	I=0.934% L=1000.000
+100.000	9100.000	47.557	49.704	
+200.000	9200.000	46.649	48.770	45.969
+300.000	9300.000	45.872	47.837	
+400.000	9400.000	45.336	46.903	I=0.420% L=910.000
+500.000	9500.000	44.699	46.033	
+600.000	9600.000	43.827	45.549	42.150
+700.000	9700.000	42.555	45.130	
+800.000	9800.000	41.268	44.710	I=0.420% L=653.000
+900.000	9900.000	40.229	44.290	
NO. 10	10000.000	40.000	43.871	44.894
+100.000	10100.000	40.000	43.451	
+200.000	10200.000	40.000	43.031	I=1.420% L=437.000
+300.000	10300.000	40.000	42.612	
+400.000	10400.000	40.000	42.259	51.100
+410.000	10410.000	40.000	42.255	
+500.000	10500.000	40.000	42.528	I=1.324% L=340.000
+600.000	10600.000	40.000	42.949	
+700.000	10700.000	40.310	43.369	46.600
+800.000	10800.000	40.775	43.789	
+900.000	10900.000	41.351	44.209	I=1.170% L=442.000
NO. 11	11000.000	42.059	44.630	
+63.000	11063.000	42.909	45.019	48.436
+100.000	11100.000	43.710	45.428	
+200.000	11200.000	46.273	46.840	48.436
+300.000	11300.000	47.647	48.260	
+400.000	11400.000	47.426	49.680	48.436
+500.000	11500.000	49.905	50.483	
+600.000	11600.000	48.676	49.776	48.436
+700.000	11700.000	46.883	48.453	
+800.000	11800.000	46.000	47.303	48.436
+840.000	11840.000	46.000	47.161	
+900.000	11900.000	46.000	47.364	48.436
NO. 12	12000.000	46.996	48.472	
+100.000	12100.000	48.436	49.642	48.436
+180.000	12180.000	49.791	50.578	

Designed by:	Signature:	<u>Revision</u>				<u>Notes</u>		<p><b>REPUBLIC OF GHANA</b>  <b>MINISTRY OF ROADS AND HIGHWAYS</b>  <b>GHANA HIGHWAY AUTHORITY</b></p>	Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>		
Checked by:	Signature:					1. All dimensions are in metre.			Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. PLAN &amp; PROFILE(4/23)</b>		
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:				Scale : As Shown      Sheet 5/82			



Station	Accum. Length	Ground Level	Proposed Level	Gradient
+800.000	12080.000	48.142	48.408	L=1.170% L=442.000
+100.000	12100.000	48.436	48.642	
+200.000	12200.000	50.158	50.812	51.772
+282.000	12282.000	51.000	51.401	
+300.000	12300.000	51.000	51.397	L=0.948% L=498.000
+400.000	12400.000	49.661	50.653	
+500.000	12500.000	47.734	49.705	47.050
+600.000	12600.000	45.879	48.757	
+700.000	12700.000	45.009	47.809	L=0.417% L=396.000
+780.000	12780.000	45.000	47.221	
+800.000	12800.000	45.000	47.195	46.701
+900.000	12900.000	45.000	47.550	
NO. 13	13000.000	45.000	47.967	L=1.099% L=1322.000
+100.000	13100.000	46.079	48.384	
+176.000	13176.000	47.000	48.511	34.149
+200.000	13200.000	47.000	48.386	
+300.000	13300.000	46.491	47.338	L=0.131% L=840.000
+400.000	13400.000	45.285	46.239	
+500.000	13500.000	44.245	45.140	34.149
+600.000	13600.000	43.375	44.041	
+700.000	13700.000	42.497	42.942	34.149
+800.000	13800.000	41.299	41.843	
+900.000	13900.000	39.873	40.744	34.149
NO. 14	14000.000	38.734	39.645	
+100.000	14100.000	38.029	38.546	34.149
+200.000	14200.000	36.380	37.446	
+300.000	14300.000	34.602	36.347	34.149
+400.000	14400.000	32.780	35.248	
+500.000	14500.000	31.642	34.270	34.149
+600.000	14600.000	31.000	34.018	
+700.000	14700.000	31.000	33.888	34.149
+800.000	14800.000	31.000	33.757	
+900.000	14900.000	31.000	33.626	34.149
NO. 15	15000.000	31.000	33.495	
+100.000	15100.000	31.000	33.364	34.149
+200.000	15200.000	31.000	33.233	

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		JAN. 2013		

Notes

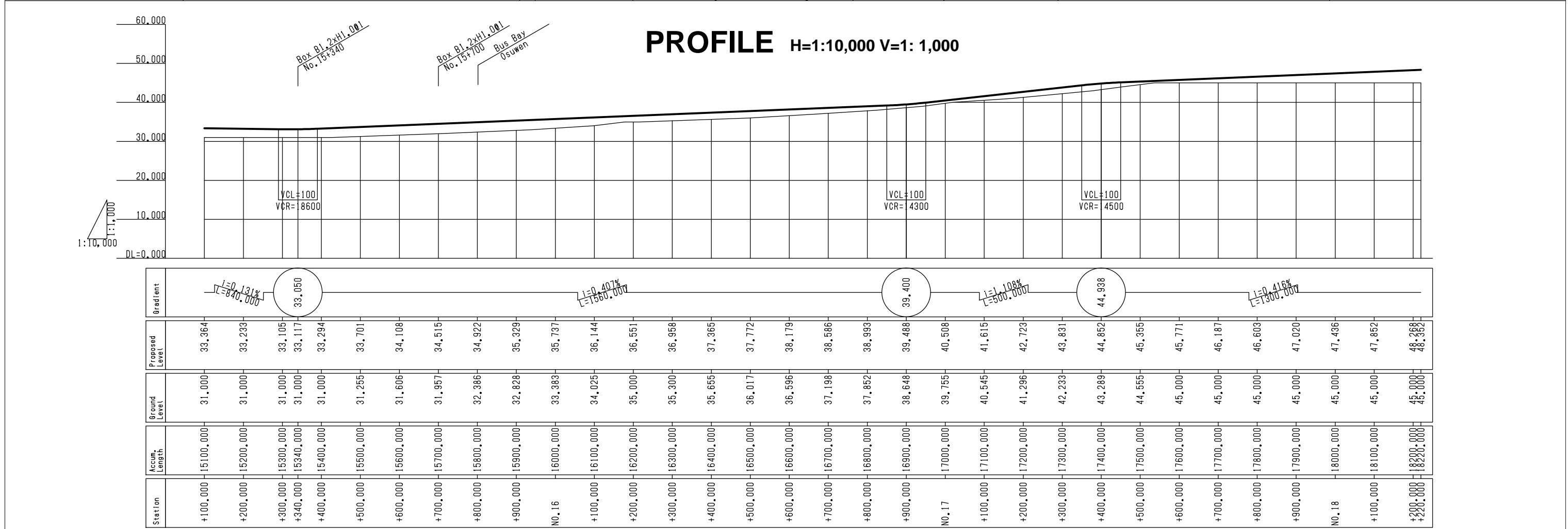
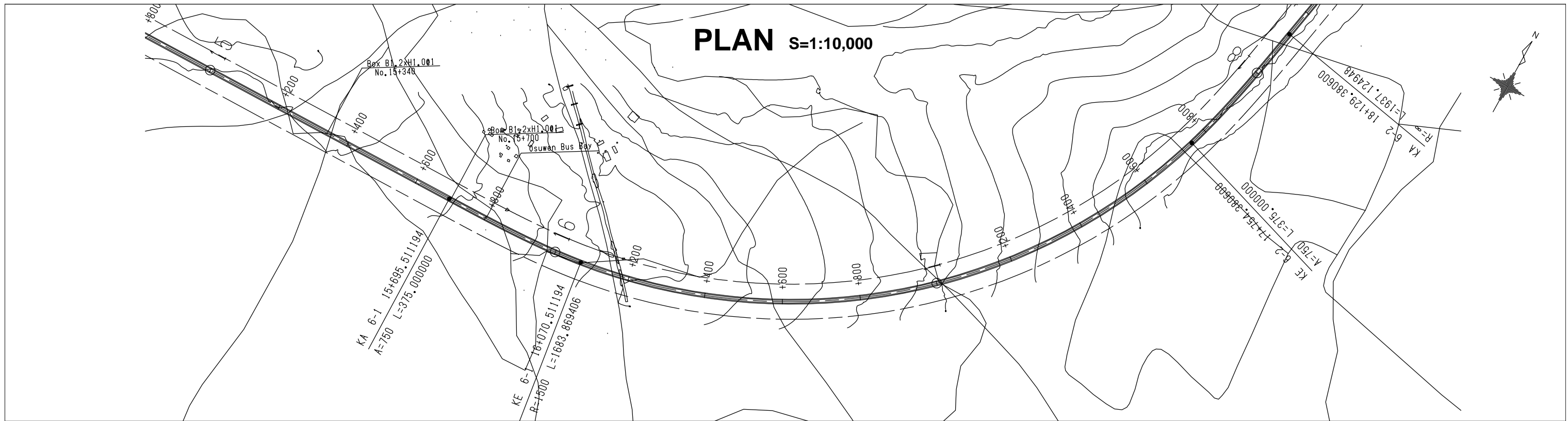
1. All dimensions are in metre.


**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**

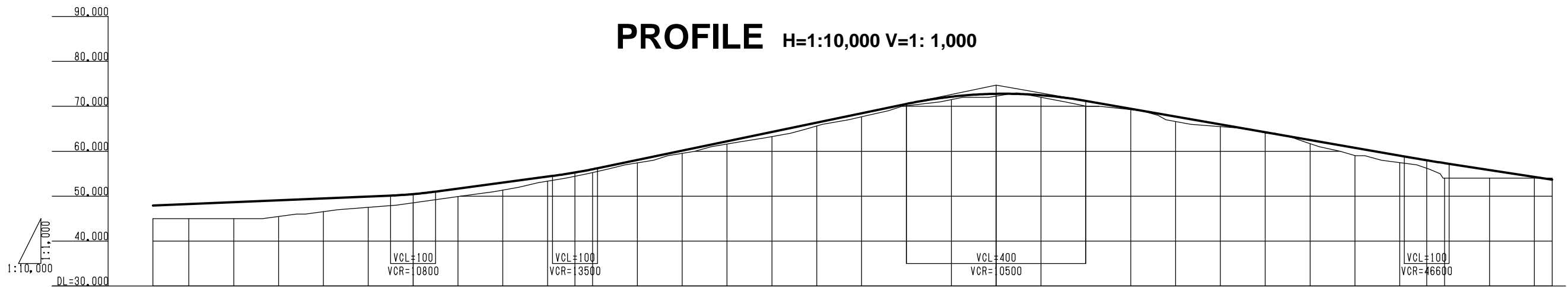
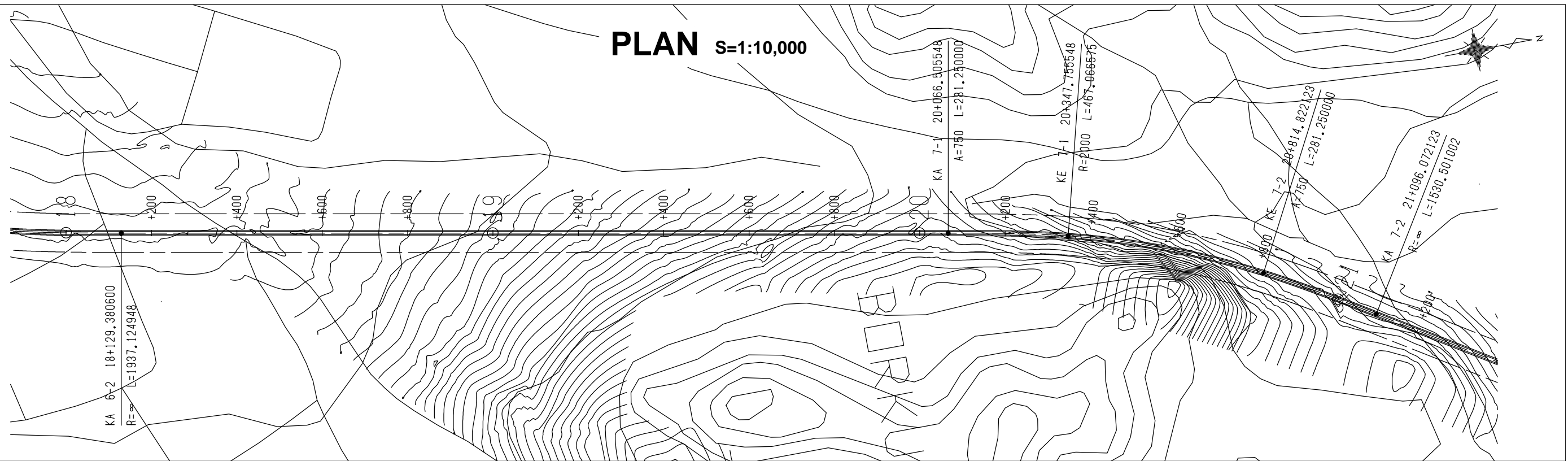
Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. PLAN & PROFILE(5/23)**

Scale : As Shown      Sheet 6/82

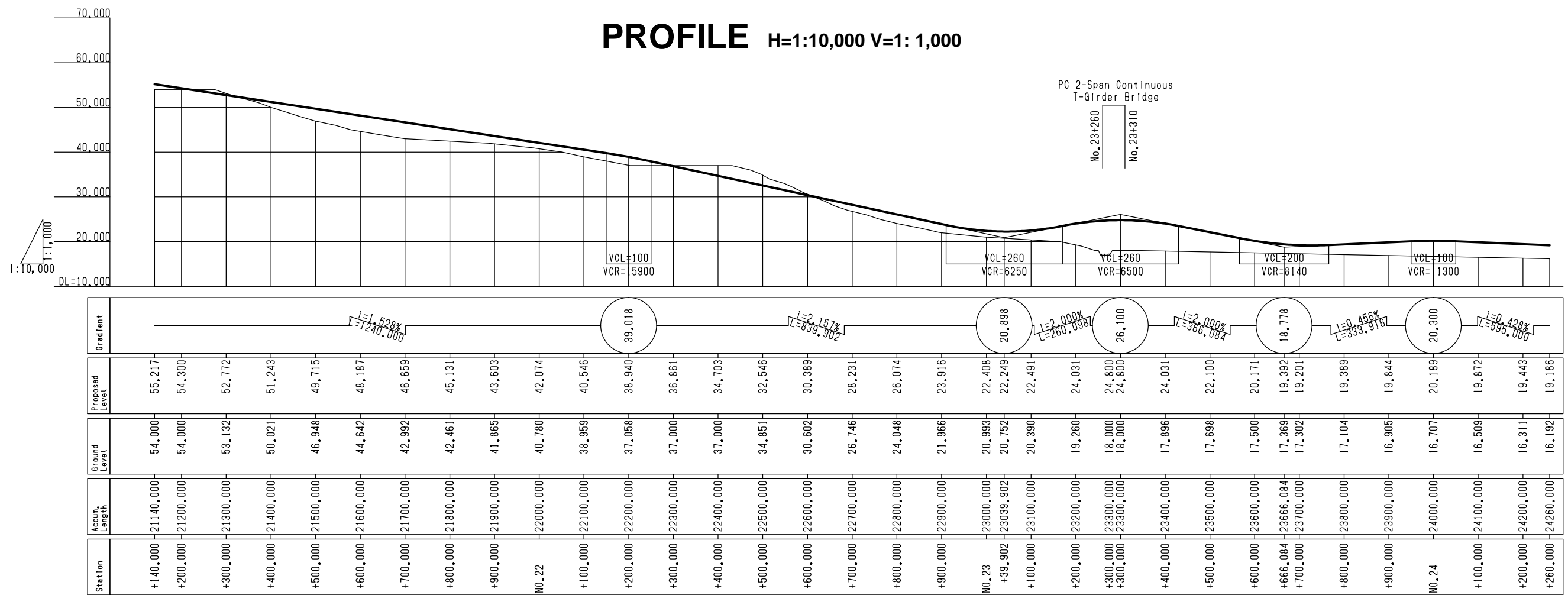
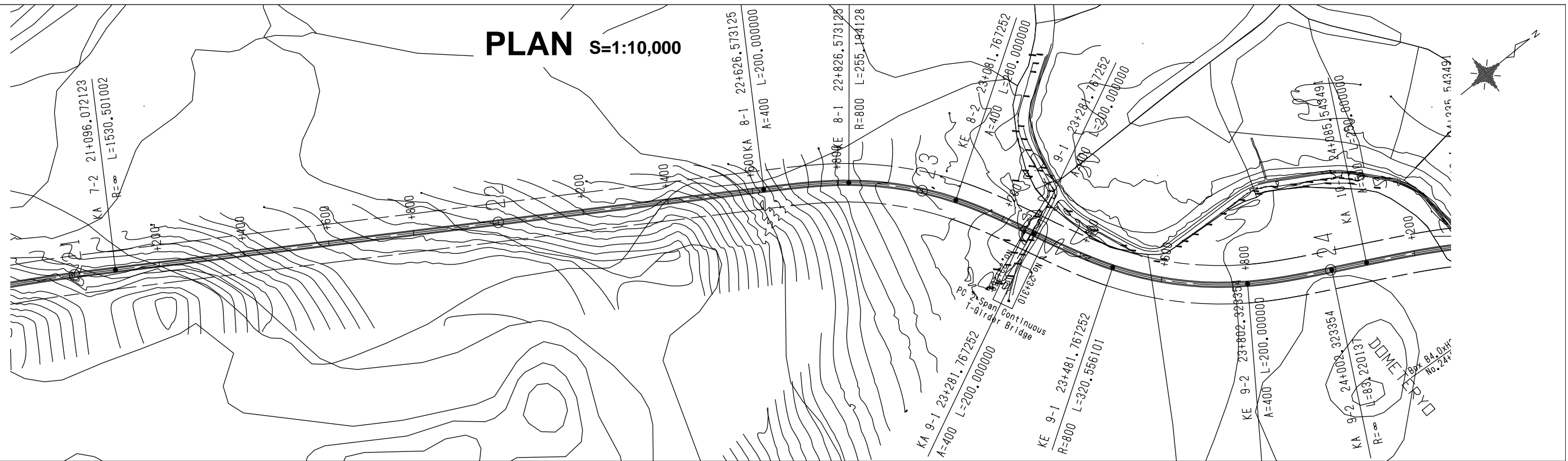



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Checked by:	Signature:					1. All dimensions are in metre.	 <small>REPUBLIC OF GHANA</small>	Description: <b>ASUTSUARE JCT. - ASIKUMA JCT. PLAN &amp; PROFILE(6/23)</b>
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:			Scale : As Shown
					JAN. 2013		Sheet 7/82	

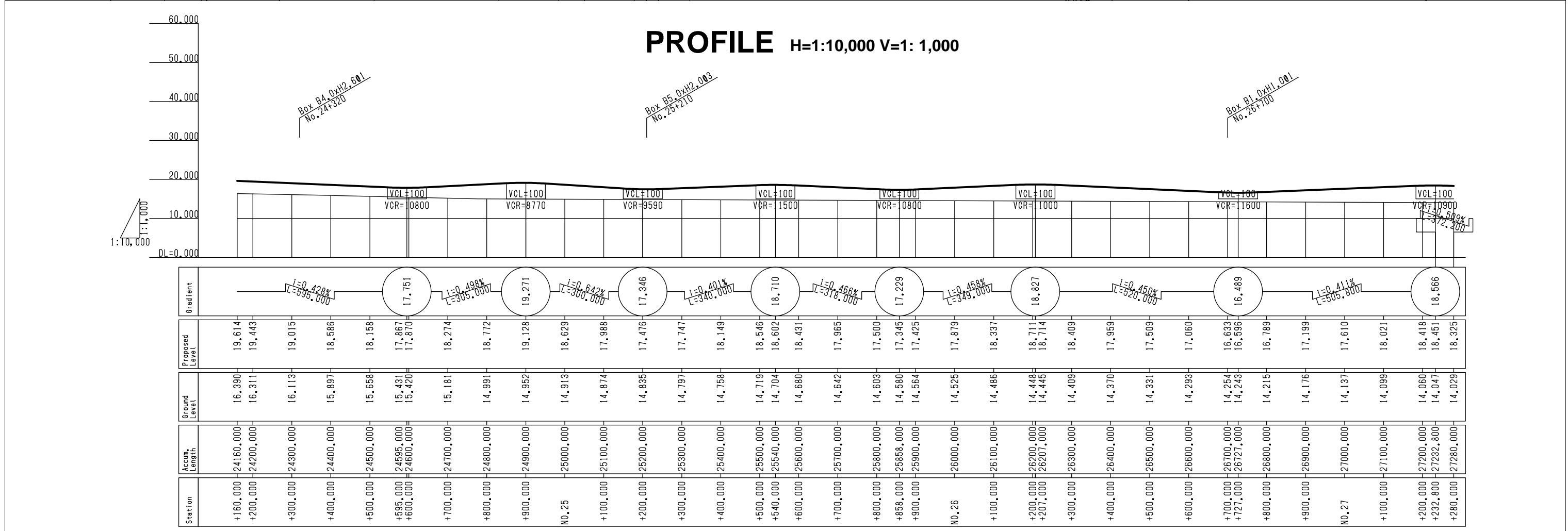
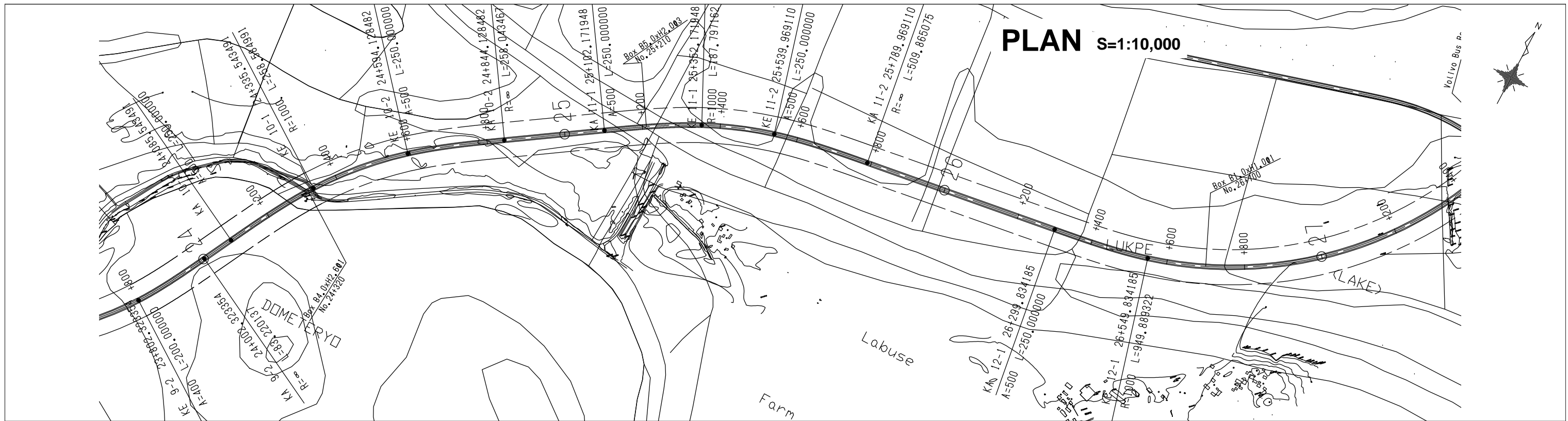



Station	Accum. Length	Ground Level	Proposed Level	Gradient
+120,000	18120,000	45,000	47,935	
+200,000	18200,000	45,000	48,266	
+300,000	18300,000	45,000	48,685	
+400,000	18400,000	45,474	49,101	
+500,000	18500,000	46,555	49,517	
+600,000	18600,000	47,518	49,933	
+700,000	18700,000	48,531	50,465	50.350
+800,000	18800,000	49,923	51,688	
+900,000	18900,000	51,350	53,026	
NO. 19	19000,000	53,346	54,364	
+61,000	19061,000	54,431	55,273	
+100,000	19100,000	55,261	55,995	
+200,000	19200,000	57,431	58,070	
+300,000	19300,000	59,538	60,148	
+400,000	19400,000	61,596	62,227	
+500,000	19500,000	63,263	64,306	
+600,000	19600,000	65,634	66,385	
+700,000	19700,000	67,681	68,464	
+800,000	19800,000	70,114	70,542	
+900,000	19900,000	71,494	72,143	
NO. 20	20000,000	72,266	72,789	74.700
+100,000	20100,000	72,000	72,479	
+200,000	20200,000	70,023	71,214	
+300,000	20300,000	69,259	69,471	
+400,000	20400,000	66,613	67,728	
+500,000	20500,000	65,494	65,985	
+600,000	20600,000	64,055	64,242	
+700,000	20700,000	61,679	62,499	
+800,000	20800,000	59,025	60,756	
+900,000	20900,000	57,482	59,013	
+960,000	20960,000	56,212	57,994	
NO. 21	21000,000	54,000	57,357	57.967
+100,000	21100,000	54,000	55,828	
+200,000	21200,000	54,000	54,300	
+240,000	21240,000	54,000	53,689	

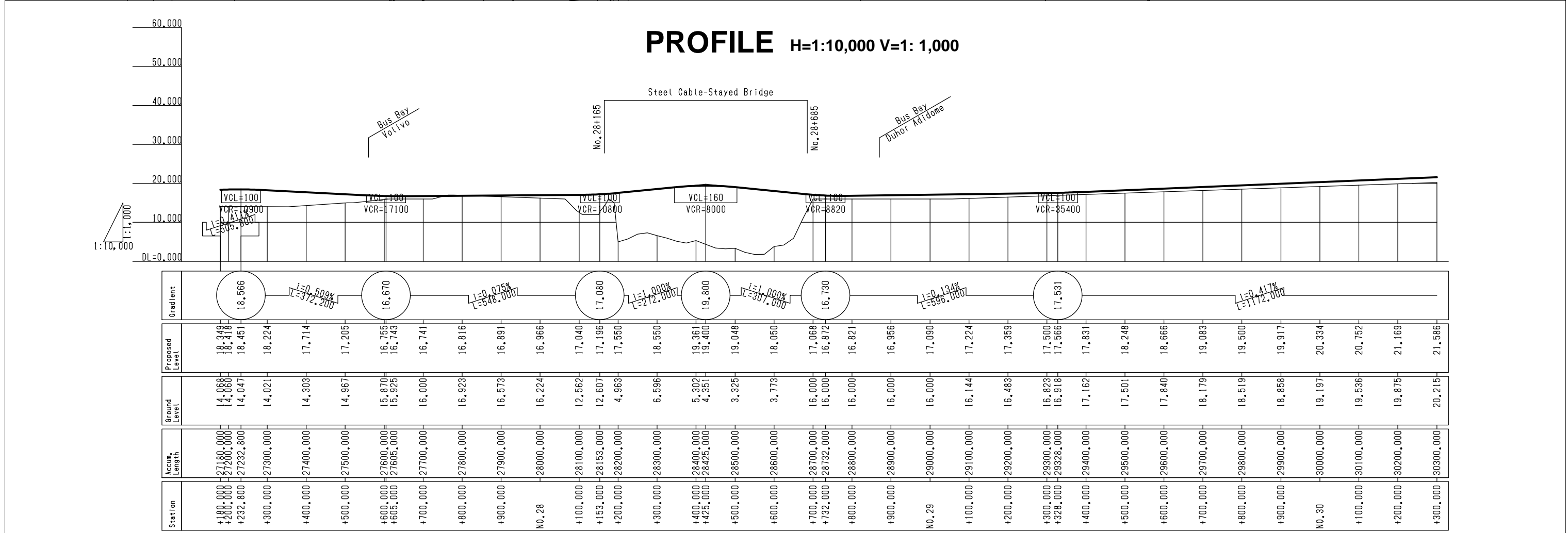
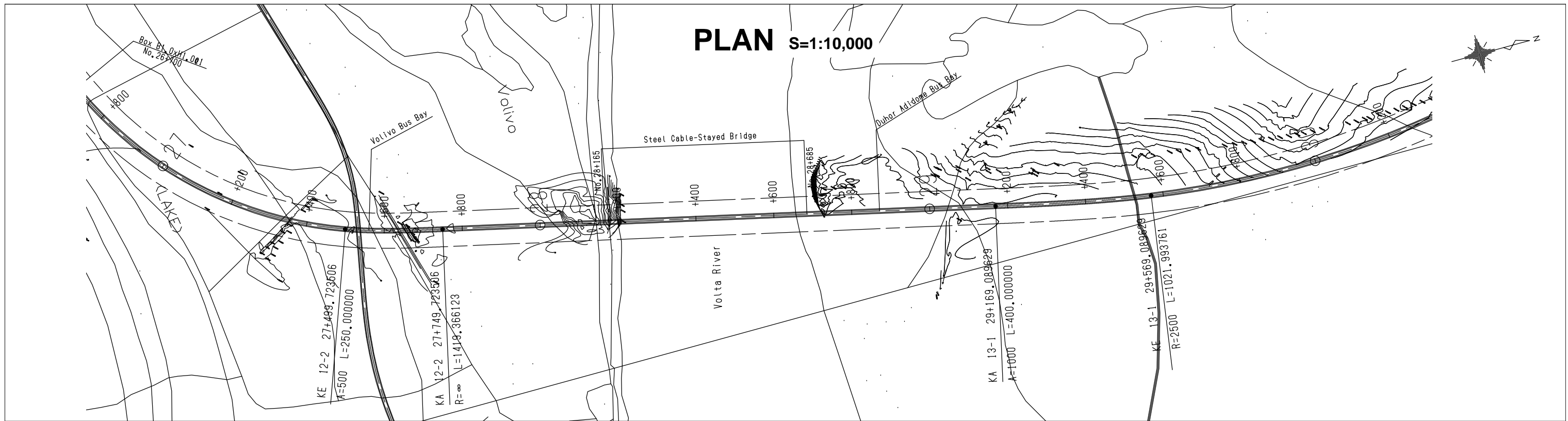
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Checked by:	Signature:			Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. PLAN &amp; PROFILE(7/23)</b>					
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:			Scale : As Shown	Sheet 8/82	
				JAN. 2013						




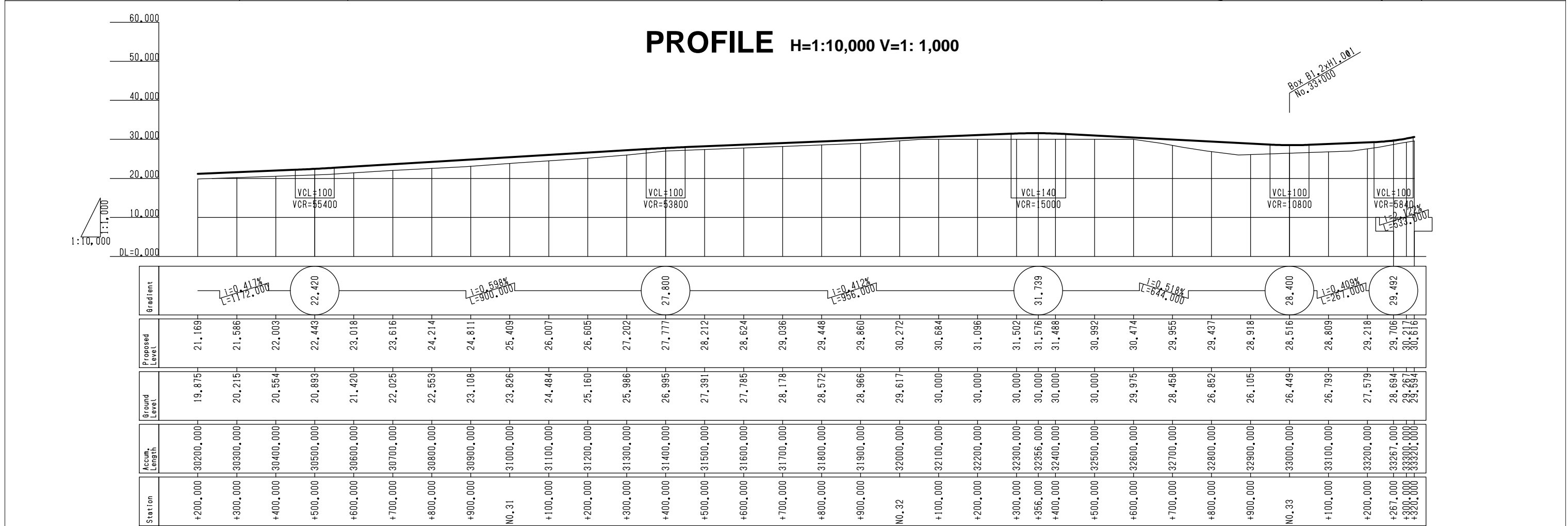
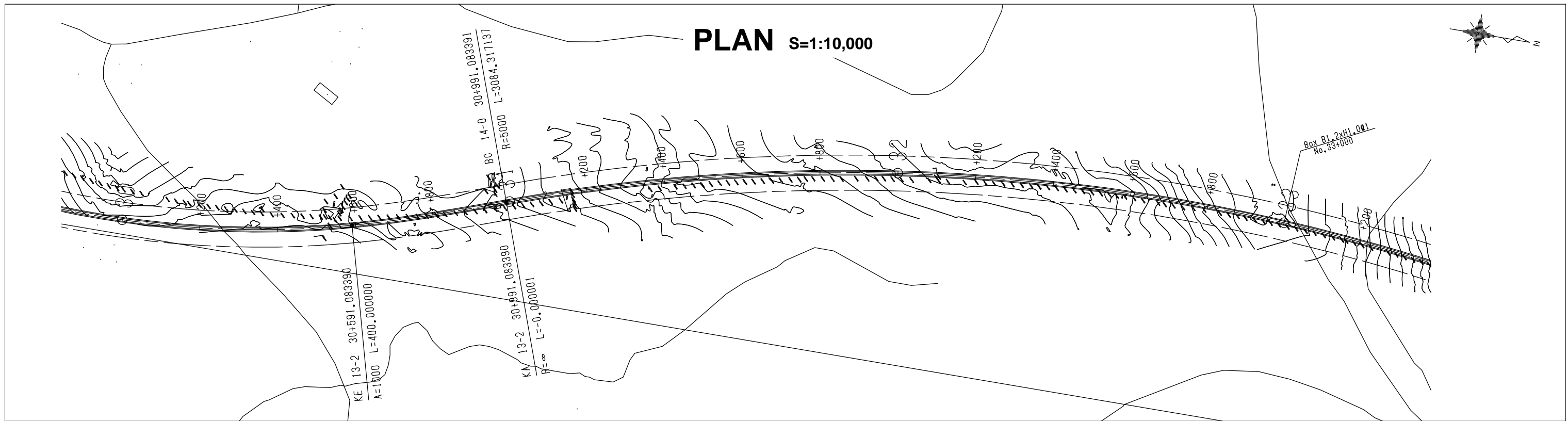
Designed by:	Signature:		<u>Revision</u>	<u>Notes</u>	<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b>	Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b> Description: <b>ASUTSUARE JCT. - ASIKUMA JCT. PLAN &amp; PROFILE(8/23)</b>
Checked by:	Signature:			1. All dimensions are in metre.	 <small>REPUBLIC OF GHANA</small>	
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:		Scale : As Shown
				JAN. 2013		Sheet 9/82



Designed by:	Signature:	<b>Revision</b>				<b>Notes</b> 1. All dimensions are in metre.	<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b> 	Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Checked by:	Signature:	Rev. no:	Rev. by:	Date:	Description:			<b>ASUTSUARE JCT. - ASIKUMA JCT. PLAN &amp; PROFILE(9/23)</b>		
Drawn by:	Signature:			JAN. 2013	Scale : As Shown			Sheet 10/82		



Designed by:	Signature:	<u>Revision</u>	<u>Notes</u>			<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b>	Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Checked by:	Signature:		1. All dimensions are in metre.			 <small>REPUBLIC OF GHANA</small>	Description: <b>ASUTSUARE JCT. - ASIKUMA JCT. PLAN &amp; PROFILE(10/23)</b>
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:	Scale : As Shown	Sheet 11/82
				JAN. 2013			



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Drawn by: \_\_\_\_\_ Signature: \_\_\_\_\_

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**

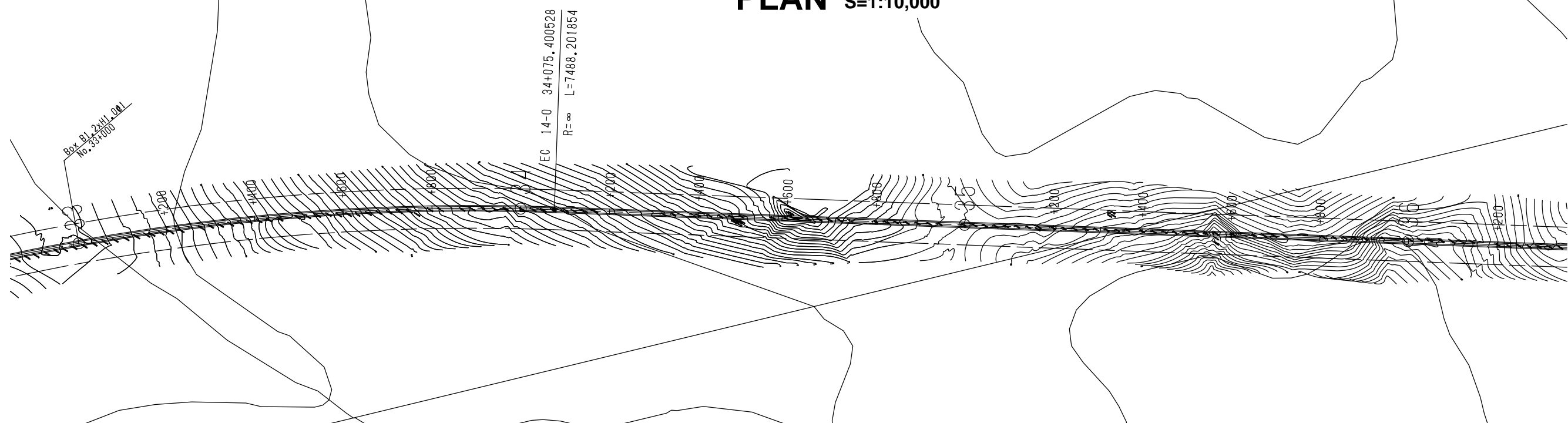
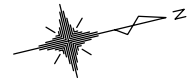
Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. PLAN & PROFILE(11/23)**

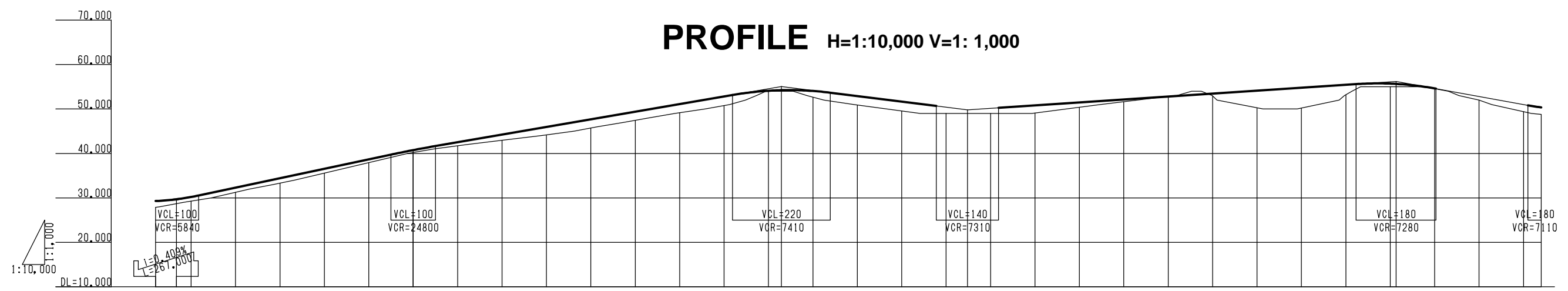
Scale : As Shown      Sheet 12/82




# PLAN S=1:10,000



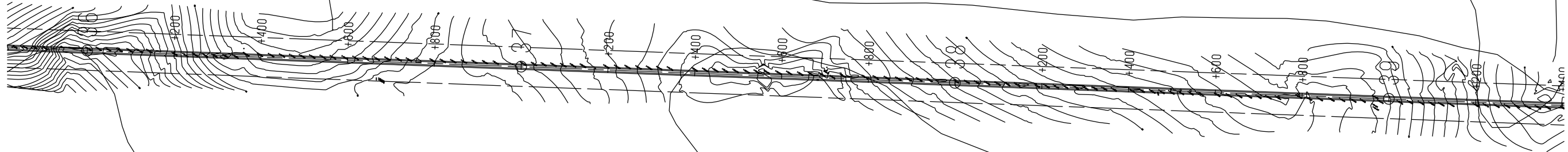
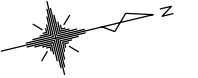
# PROFILE H=1:10,000 V=1: 1,000



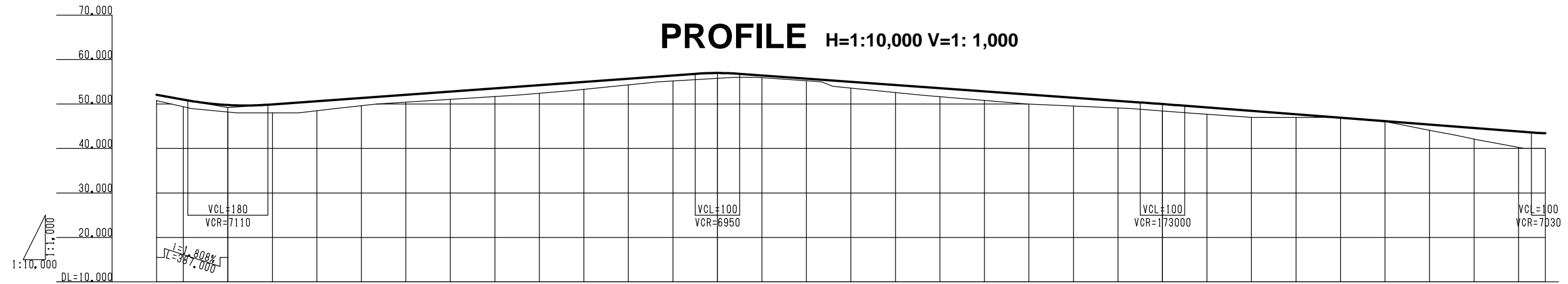
Station	Accum. Length	Ground Level	Proposed Level	Gradient
+220,000	33220,000	27,868	29,300	29.492
+267,000	33267,000	28,694	29,706	I=2.122% L=533.000
+300,000	33300,000	29,267	30,217	
+400,000	33400,000	31,260	32,314	40.800
+500,000	33500,000	33,317	34,435	I=1.718% L=829.000
+600,000	33600,000	35,585	36,557	
+700,000	33700,000	37,941	38,678	55.044
+800,000	33800,000	40,228	40,750	I=1.252% L=419.000
+900,000	33900,000	41,713	42,518	
No. 34	34000,000	42,974	44,236	I=0.663% L=965.000
+100,000	34100,000	44,170	45,955	
+200,000	34200,000	45,727	47,673	56.197
+300,000	34300,000	47,457	49,391	I=1.808% L=397.000
+400,000	34400,000	49,161	51,109	
+500,000	34500,000	50,778	52,828	
+600,000	34600,000	54,000	54,103	
+629,000	34629,000	54,000	54,227	
+700,000	34700,000	52,646	54,053	
+800,000	34800,000	50,907	52,904	
+900,000	34900,000	49,557	51,652	
No. 35	35000,000	49,000	50,434	
+48,000	35048,000	49,000	50,135	
+100,000	35100,000	49,000	50,167	
+200,000	35200,000	49,093	50,808	
+300,000	35300,000	50,398	51,471	
+400,000	35400,000	51,640	52,134	
+500,000	35500,000	52,829	52,796	
+600,000	35600,000	52,923	53,459	
+700,000	35700,000	50,259	54,122	
+800,000	35800,000	50,199	54,785	
+900,000	35900,000	53,196	55,448	
No. 36	36000,000	55,000	55,704	
+13,000	36013,000	55,000	55,641	
+100,000	36100,000	54,563	54,624	
+200,000	36200,000	51,993	52,816	
+300,000	36300,000	49,401	51,008	
+340,000	36340,000	48,783	50,348	

Designed by:	Signature:	<u>Revision</u>	<u>Notes</u>	<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b>	Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b> Description: <b>ASUTSUARE JCT. - ASIKUMA JCT. PLAN &amp; PROFILE(12/23)</b>
Checked by:	Signature:		1. All dimensions are in metre.	 REPUBLIC OF GHANA	
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Scale : As Shown
				JAN. 2013	Sheet 13/82

# PLAN S=1:10,000



# PROFILE H=1:10,000 V=1: 1,000



Station	Accum. Length	Ground Level	Proposed Level	Gradient
+240.000	36240.000	50.748	52.093	49.200
+300.000	36300.000	49.401	51.008	
+400.000	36400.000	48.194	49.769	
+500.000	36500.000	48.000	49.923	-0.723% L=1100.000
+600.000	36600.000	48.493	50.646	
+700.000	36700.000	49.627	51.368	
+800.000	36800.000	50.417	52.091	
+900.000	36900.000	51.052	52.814	
NO. 37	37000.000	51.688	53.537	
+100.000	37100.000	52.417	54.259	
+200.000	37200.000	53.295	54.982	
+300.000	37300.000	54.307	55.705	
+400.000	37400.000	55.184	56.428	
+500.000	37500.000	55.765	56.971	57.151
+600.000	37600.000	55.918	56.435	
+700.000	37700.000	55.231	55.720	
+800.000	37800.000	53.595	55.005	
+900.000	37900.000	52.593	54.290	
NO. 38	38000.000	51.655	53.575	
+100.000	38100.000	50.810	52.860	
+200.000	38200.000	49.982	52.145	
+300.000	38300.000	49.551	51.430	
+400.000	38400.000	49.121	50.715	
+500.000	38500.000	48.433	49.993	-0.715% L=1000.000
+600.000	38600.000	47.689	49.227	
+700.000	38700.000	47.000	48.454	
+800.000	38800.000	47.000	47.681	
+900.000	38900.000	47.000	46.908	
NO. 39	39000.000	46.038	46.135	
+100.000	39100.000	44.099	45.362	
+200.000	39200.000	42.112	44.589	
+300.000	39300.000	40.246	43.817	
+360.000	39360.000	40.000	43.421	

Designed by:	Signature:
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Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

**Notes**

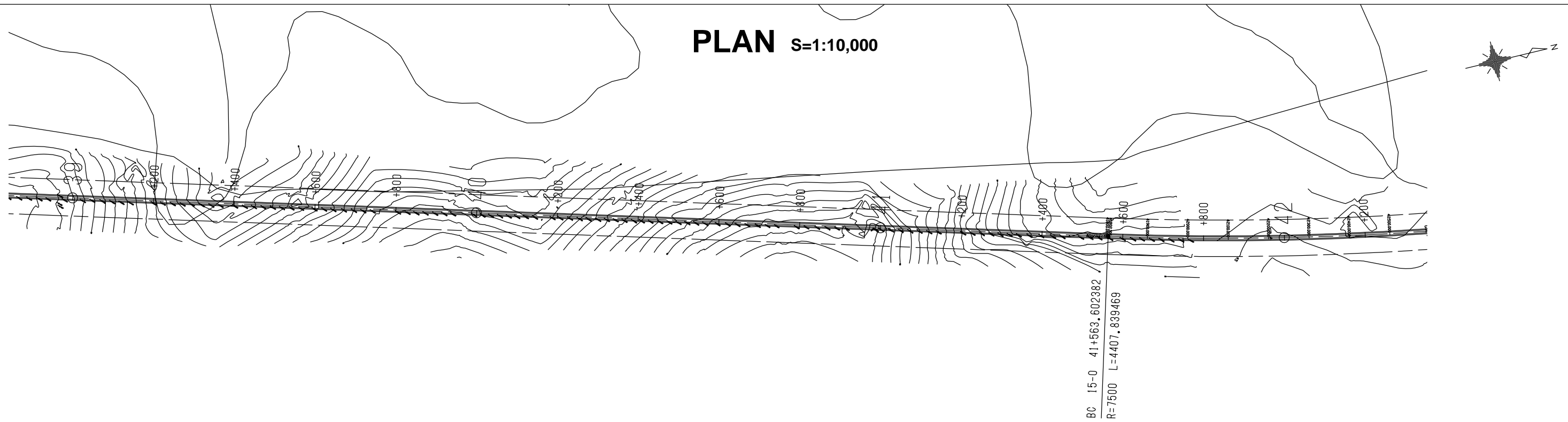
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**

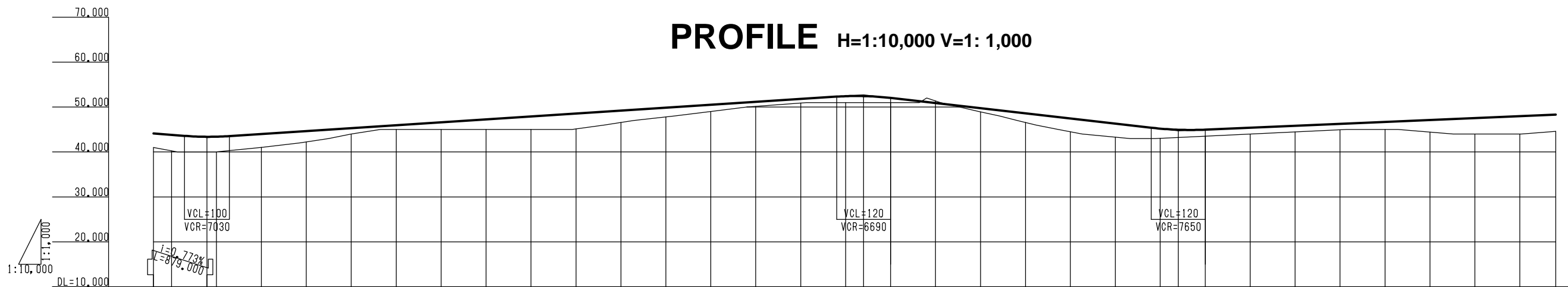
**Project:** JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA  
**Description:** ASUTSUARE JCT. - ASIKUMA JCT. PLAN & PROFILE(13/23)

Scale : As Shown      Sheet 14/82

# PLAN S=1:10,000



# PROFILE H=1:10,000 V=1: 1,000



Station	Acum. Length	Ground Level	Proposed Level	Gradient
+260.000	39260.000	41.008	44.126	L=0.773% L=879.000
+300.000	39300.000	40.246	43.817	
+379.000	39379.000	40.000	43.384	L=0.650% L=1461.000
+400.000	39400.000	40.007	43.402	
+500.000	39500.000	41.024	43.993	L=0.426% L=1240.000
+600.000	39600.000	42.235	44.643	
+700.000	39700.000	44.003	45.294	L=0.650% L=1461.000
+800.000	39800.000	45.000	45.944	
+900.000	39900.000	45.000	46.594	L=0.426% L=1240.000
NO. 40	40000.000	45.000	47.245	
+100.000	40100.000	45.000	47.895	L=0.650% L=1461.000
+200.000	40200.000	45.124	48.546	
+300.000	40300.000	46.571	49.196	L=0.426% L=1240.000
+400.000	40400.000	47.787	49.846	
+500.000	40500.000	49.015	50.497	L=0.650% L=1461.000
+600.000	40600.000	50.152	51.147	
+700.000	40700.000	50.906	51.797	L=0.426% L=1240.000
+800.000	40800.000	51.000	52.418	
+840.000	40840.000	51.000	52.439	L=0.650% L=1461.000
+900.000	40900.000	51.000	52.023	
NO. 41	41000.000	51.367	50.881	L=0.426% L=1240.000
+100.000	41100.000	48.933	49.739	
+200.000	41200.000	46.570	48.597	L=0.650% L=1461.000
+300.000	41300.000	44.489	47.455	
+400.000	41400.000	43.310	46.313	L=0.426% L=1240.000
+500.000	41500.000	43.055	45.197	
+540.000	41540.000	43.243	44.949	L=0.650% L=1461.000
+600.000	41600.000	43.524	44.970	
+700.000	41700.000	43.993	45.396	L=0.426% L=1240.000
+800.000	41800.000	44.462	45.822	
+900.000	41900.000	44.932	46.249	L=0.650% L=1461.000
NO. 42	42000.000	45.000	46.675	
+100.000	42100.000	44.422	47.101	L=0.426% L=1240.000
+200.000	42200.000	44.000	47.527	
+300.000	42300.000	44.000	47.954	L=0.650% L=1461.000
+380.000	42380.000	44.591	48.295	


Designed by:	Signature:
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Drawn by:	Signature:

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

**Notes**

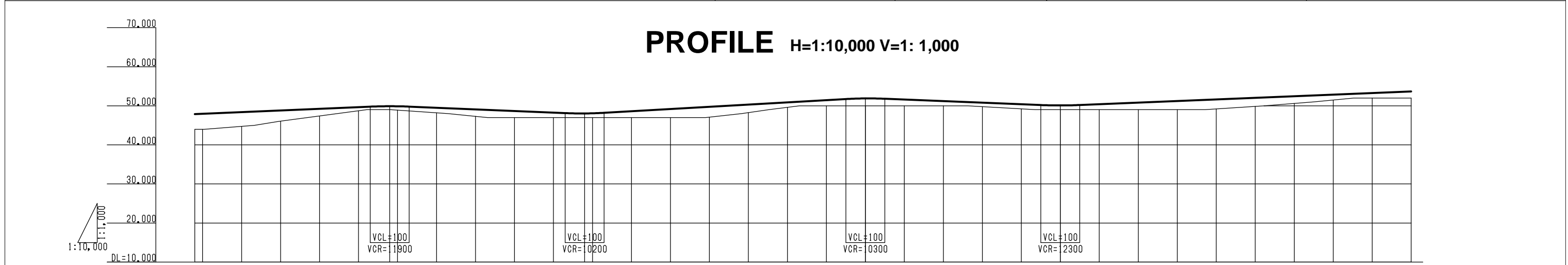
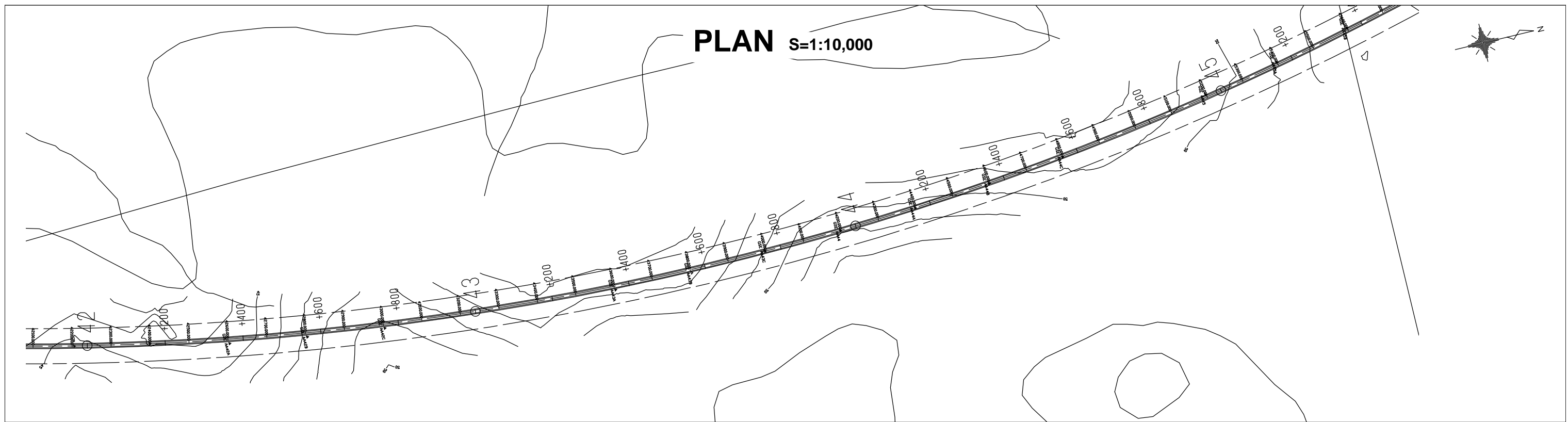
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



**Project:** JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA  
**Description:** ASUTSUARE JCT. - ASIKUMA JCT. PLAN & PROFILE(14/23)

Scale : As Shown      Sheet 15/82



1:10,000  
DL=10.000

Station	Accum. Length	Ground Level	Proposed Level	Gradient
+280.000	42280.000	44.000	47.889	$i=0.426\%$ $L=1240.000$
+300.000	42300.000	44.000	47.889	
+400.000	42400.000	44.746	48.380	50.000
+500.000	42500.000	46.060	48.806	
+600.000	42600.000	47.388	49.233	$i=0.415\%$ $L=500.000$
+700.000	42700.000	48.716	49.659	
+780.000	42780.000	49.000	49.895	47.927
+800.000	42800.000	48.876	49.879	
+900.000	42900.000	48.202	49.502	52.016
NO. 43	43000.000	47.306	49.088	
+100.000	43100.000	47.000	48.673	$i=0.568\%$ $L=720.000$
+200.000	43200.000	47.000	48.259	
+280.000	43280.000	47.000	48.050	50.000
+300.000	43300.000	47.000	48.085	
+400.000	43400.000	47.000	48.608	$i=0.403\%$ $L=500.000$
+500.000	43500.000	47.000	49.176	
+600.000	43600.000	47.105	49.744	50.000
+700.000	43700.000	48.251	50.312	
+800.000	43800.000	49.607	50.880	50.000
+900.000	43900.000	50.000	51.448	
NO. 44	44000.000	50.000	51.895	$i=0.409\%$ $L=1040.000$
+100.000	44100.000	50.000	51.613	
+200.000	44200.000	50.000	51.210	50.000
+300.000	44300.000	49.786	50.806	
+400.000	44400.000	49.207	50.403	50.000
+500.000	44500.000	49.000	50.102	
+600.000	44600.000	49.000	50.409	50.000
+700.000	44700.000	49.000	50.818	
+800.000	44800.000	49.000	51.228	50.000
+900.000	44900.000	49.191	51.637	
NO. 45	45000.000	49.852	52.046	50.000
+100.000	45100.000	50.605	52.455	
+200.000	45200.000	51.486	52.864	50.000
+300.000	45300.000	52.000	53.274	
+400.000	45400.000	52.000	53.683	

Designed by: \_\_\_\_\_  
Checked by: \_\_\_\_\_  
Drawn by: \_\_\_\_\_

Signature: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Signature: \_\_\_\_\_

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

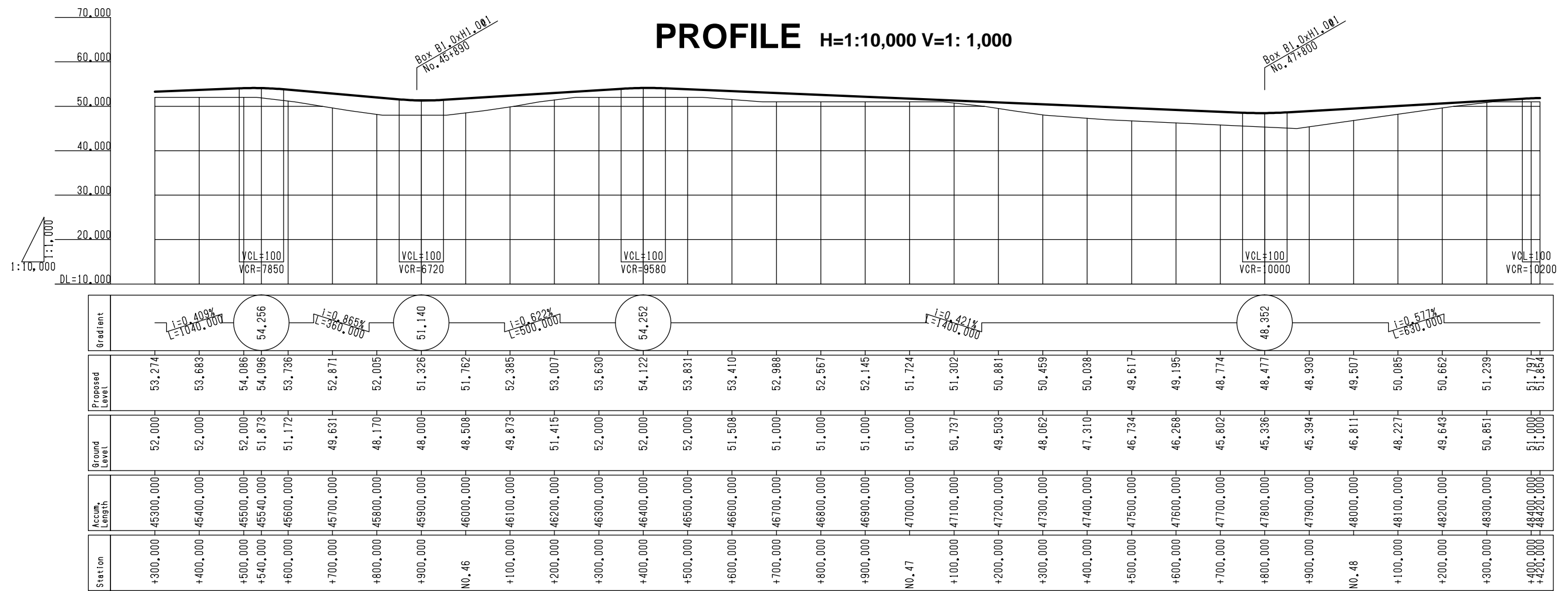
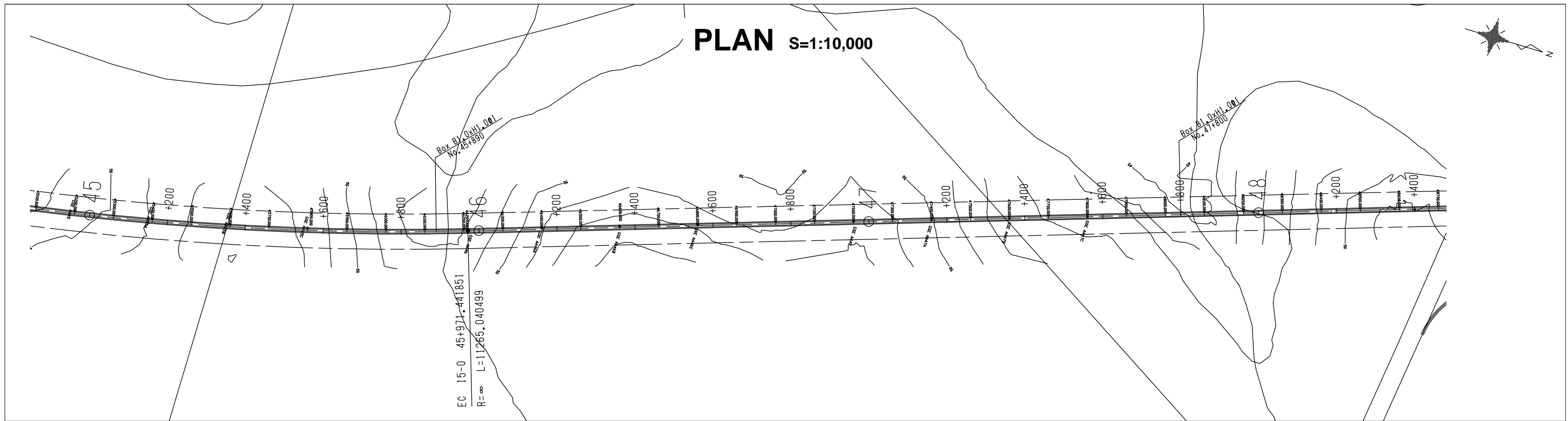
Notes  
1. All dimensions are in metre.


**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**

Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

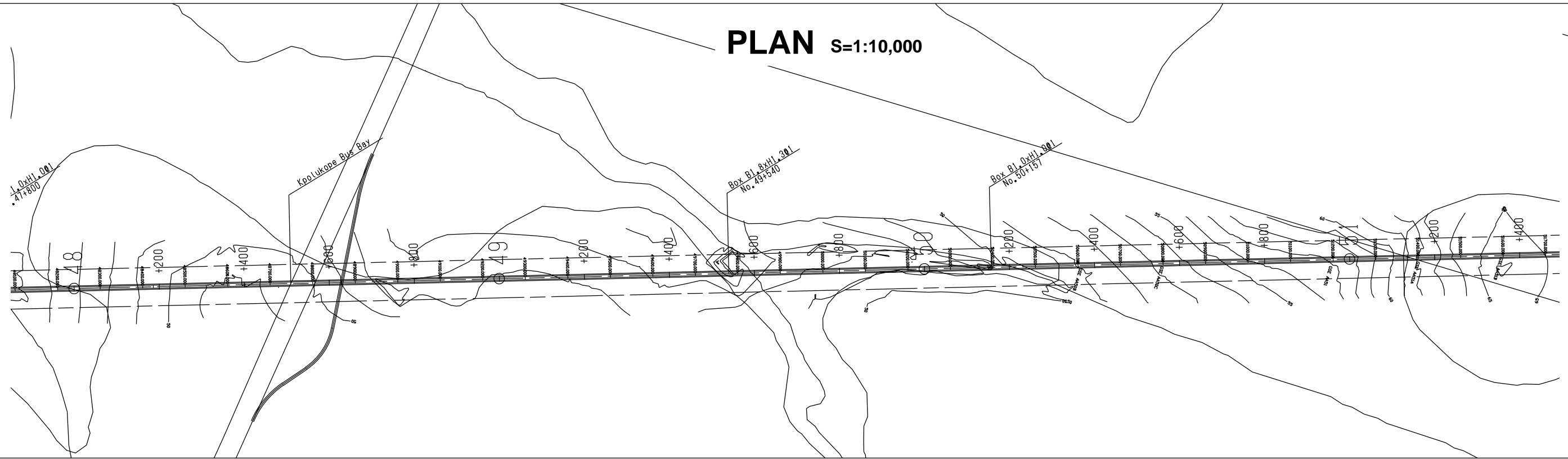
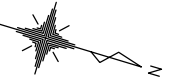
Description: **ASUTSUARE JCT. - ASIKUMA JCT. PLAN & PROFILE(15/23)**

Scale : As Shown      Sheet 16/82

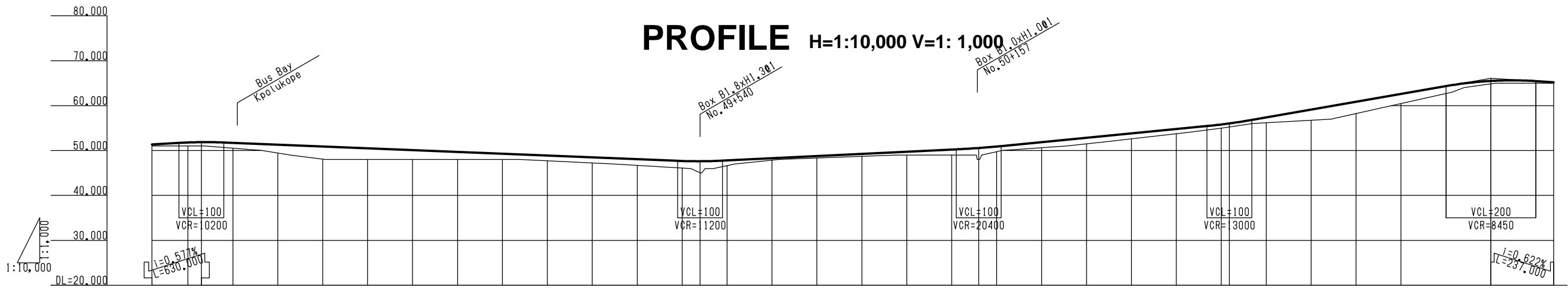


Designed by:	Signature:	<u>Revision</u>	<u>Notes</u>			<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b>	Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Checked by:	Signature:		1. All dimensions are in metre.			 <small>REPUBLIC OF GHANA</small>	Description: <b>ASUTSUARE JCT. - ASIKUMA JCT. PLAN &amp; PROFILE(16/23)</b>
Drawn by:	Signature:	Rev. no:				Rev. by:	Date:


# PLAN S=1:10,000



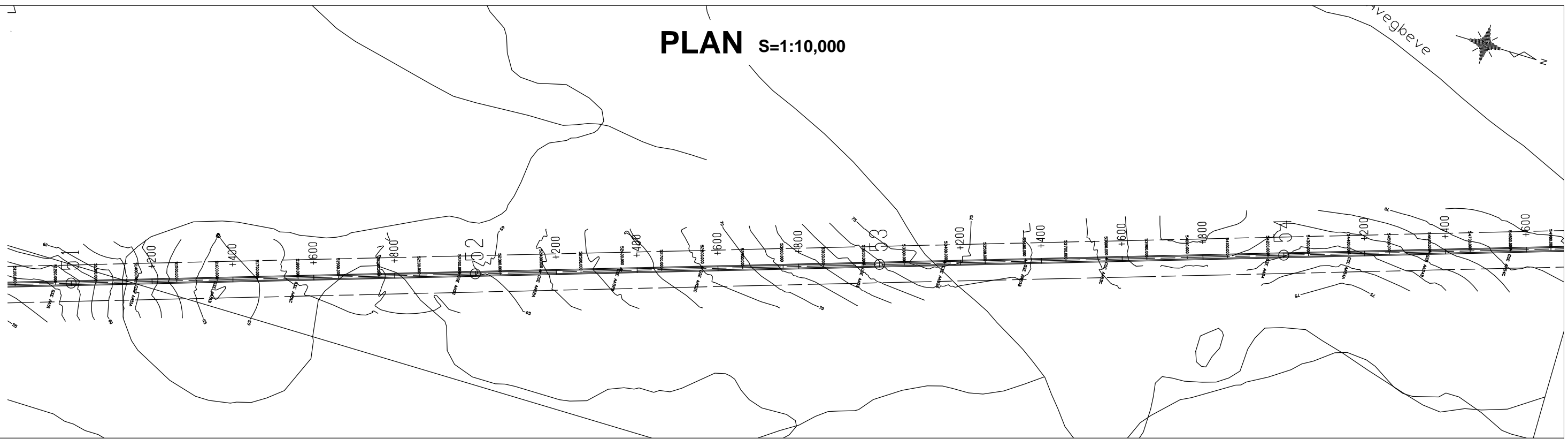
# PROFILE H=1:10,000 V=1: 1,000



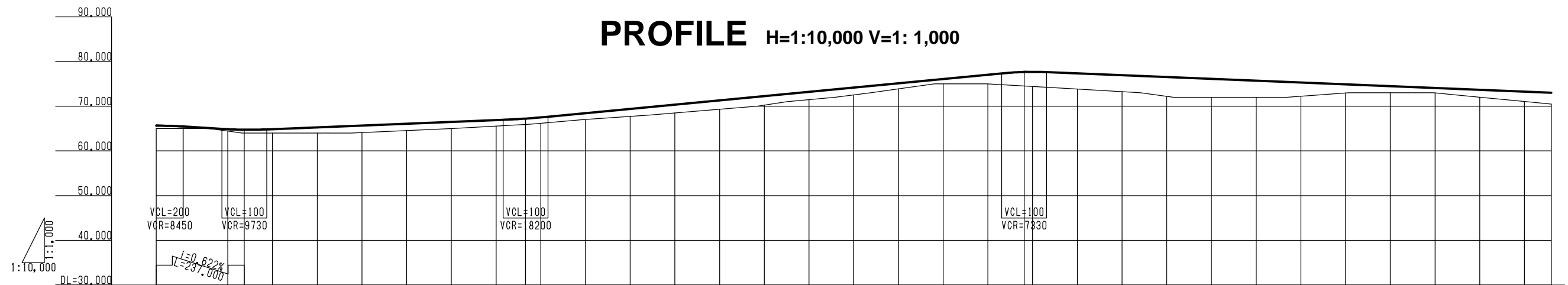
Station	Accum. Length	Ground Level	Proposed Level	Gradient
+320.000	48320.000	51.000	51.355	51.990
+400.000	48400.000	51.000	51.797	L=0.571% L=630.000
+430.000	48430.000	51.000	51.867	
+500.000	48500.000	50.508	51.707	L=0.405% L=1110.000
+600.000	48600.000	49.446	51.302	
+700.000	48700.000	48.065	50.898	L=0.485% L=620.000
+800.000	48800.000	48.000	50.493	
+900.000	48900.000	48.000	50.089	L=0.505% L=558.000
NO. 49	49000.000	48.000	49.684	
+100.000	49100.000	48.000	49.280	L=0.744% L=382.000
+200.000	49200.000	47.704	48.875	
+300.000	49300.000	47.229	48.471	L=0.622% L=237.000
+400.000	49400.000	46.698	48.066	
+500.000	49500.000	46.114	47.666	L=0.822% L=180.000
+540.000	49540.000	45.021	47.611	
+600.000	49600.000	46.644	47.791	L=0.822% L=180.000
+700.000	49700.000	47.841	48.275	
+800.000	49800.000	48.326	48.760	L=0.822% L=180.000
+900.000	49900.000	48.712	49.245	
NO. 50	50000.000	49.000	49.729	L=0.822% L=180.000
+100.000	50100.000	49.000	50.214	
+160.000	50160.000	48.000	50.566	L=0.822% L=180.000
+200.000	50200.000	49.740	50.897	
+300.000	50300.000	50.612	51.868	L=0.822% L=180.000
+400.000	50400.000	51.485	52.842	
+500.000	50500.000	52.602	53.816	L=0.822% L=180.000
+600.000	50600.000	53.750	54.789	
+700.000	50700.000	54.979	55.803	L=0.822% L=180.000
+718.000	50718.000	55.242	56.035	
+800.000	50800.000	56.177	57.368	L=0.822% L=180.000
+900.000	50900.000	56.749	59.112	
NO. 51	51000.000	58.247	60.856	L=0.822% L=180.000
+100.000	51100.000	60.469	62.600	
+200.000	51200.000	62.691	64.343	L=0.822% L=180.000
+300.000	51300.000	64.864	65.496	
+400.000	51400.000	65.000	65.465	L=0.822% L=180.000
+440.000	51440.000	65.000	65.216	

Designed by:	Signature:	<u>Revision</u>	<u>Notes</u>	<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b>	Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b> Description: <b>ASUTSUARE JCT. - ASIKUMA JCT. PLAN &amp; PROFILE(17/23)</b>
Checked by:	Signature:		1. All dimensions are in metre.	 REPUBLIC OF GHANA	
Drawn by:	Signature:	Rev. no:	Rev. by:	Date: JAN. 2013	Sign:
					Scale : As Shown      Sheet 18/82

# PLAN S=1:10,000



# PROFILE H=1:10,000 V=1: 1,000



Station	Accum. Length	Ground Level	Proposed Level	Gradient
+340.000	51340.000	65.000	65.625	
+400.000	51400.000	65.000	65.465	
+500.000	51500.000	64.437	64.851	64.612
+537.000	51537.000	64.000	64.741	
+600.000	51600.000	64.000	64.867	
+700.000	51700.000	64.000	65.273	
+800.000	51800.000	64.103	65.678	
+900.000	51900.000	64.544	66.083	
N0.52	52000.000	64.985	66.488	
+100.000	52100.000	65.556	66.893	
+166.000	52166.000	65.936	67.229	
+200.000	52200.000	66.194	67.492	
+300.000	52300.000	67.037	68.441	
+400.000	52400.000	67.709	69.397	
+500.000	52500.000	68.486	70.353	
+600.000	52600.000	69.322	71.309	
+700.000	52700.000	70.236	72.264	
+800.000	52800.000	71.456	73.220	
+900.000	52900.000	72.522	74.176	
N0.53	53000.000	73.897	75.132	
+100.000	53100.000	75.000	76.088	
+200.000	53200.000	74.987	77.044	
+281.000	53281.000	74.529	77.647	
+300.000	53300.000	74.422	77.674	
+400.000	53400.000	73.848	77.331	
+500.000	53500.000	73.246	76.921	
+600.000	53600.000	72.205	76.512	
+700.000	53700.000	72.000	76.103	
+800.000	53800.000	72.000	75.693	
+900.000	53900.000	72.229	75.284	
N0.54	54000.000	72.947	74.875	
+100.000	54100.000	73.000	74.466	
+200.000	54200.000	72.970	74.056	
+300.000	54300.000	72.007	73.647	
+400.000	54400.000	71.040	73.238	
+460.000	54460.000	70.484	72.992	


Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

**Notes**

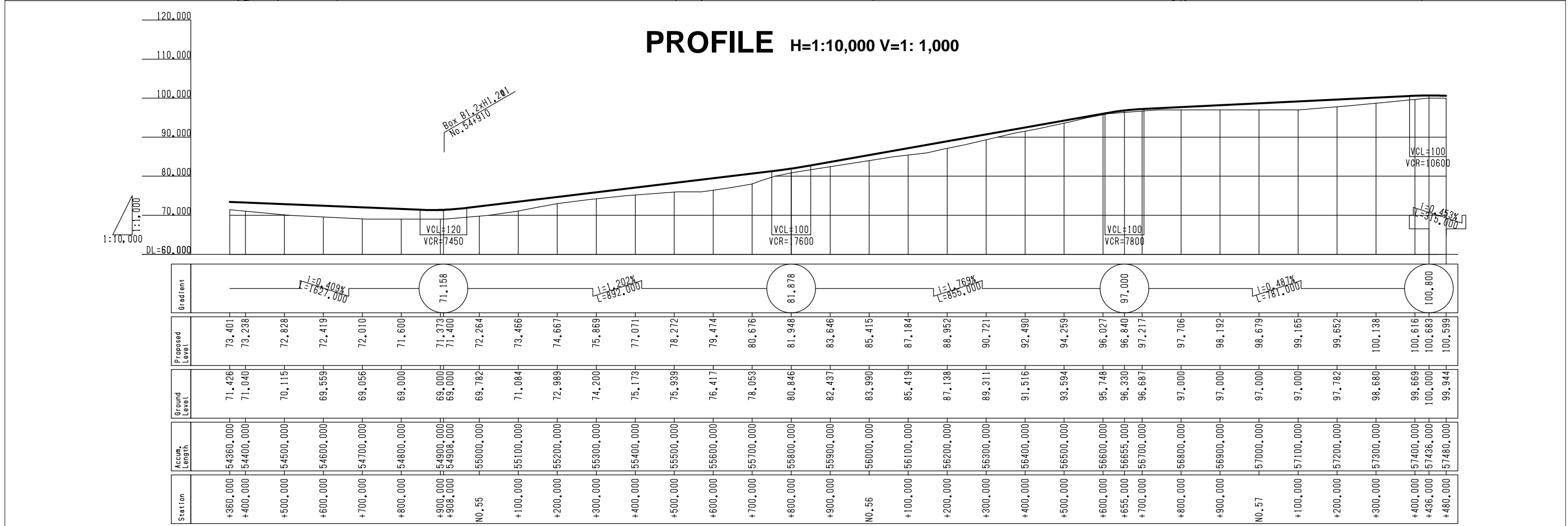
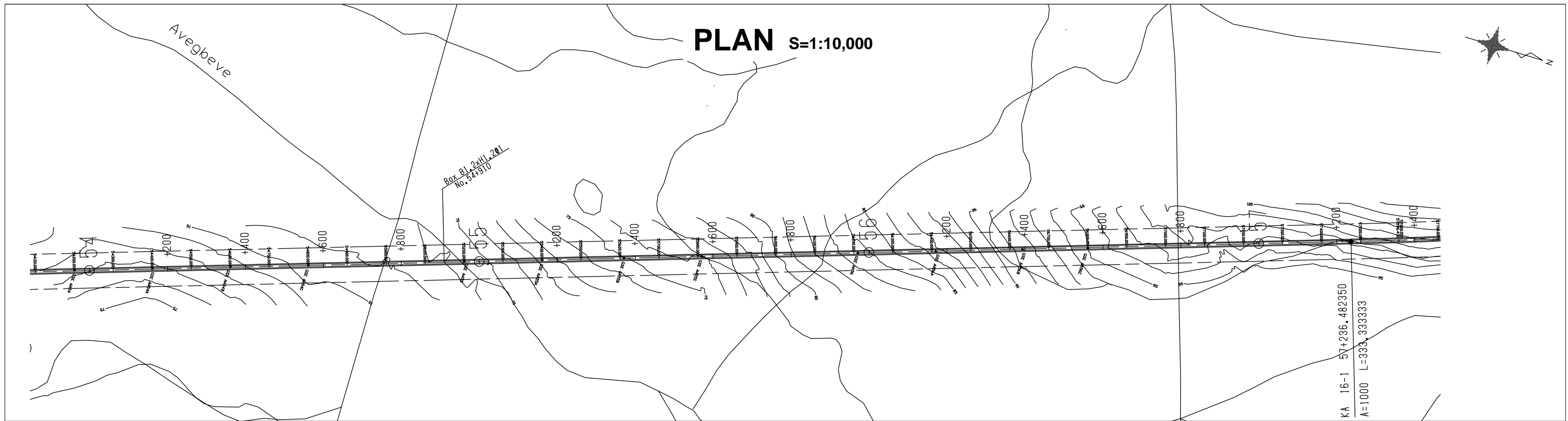
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



**Project:** JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA  
**Description:** ASUTSUARE JCT. - ASIKUMA JCT. PLAN & PROFILE(18/23)

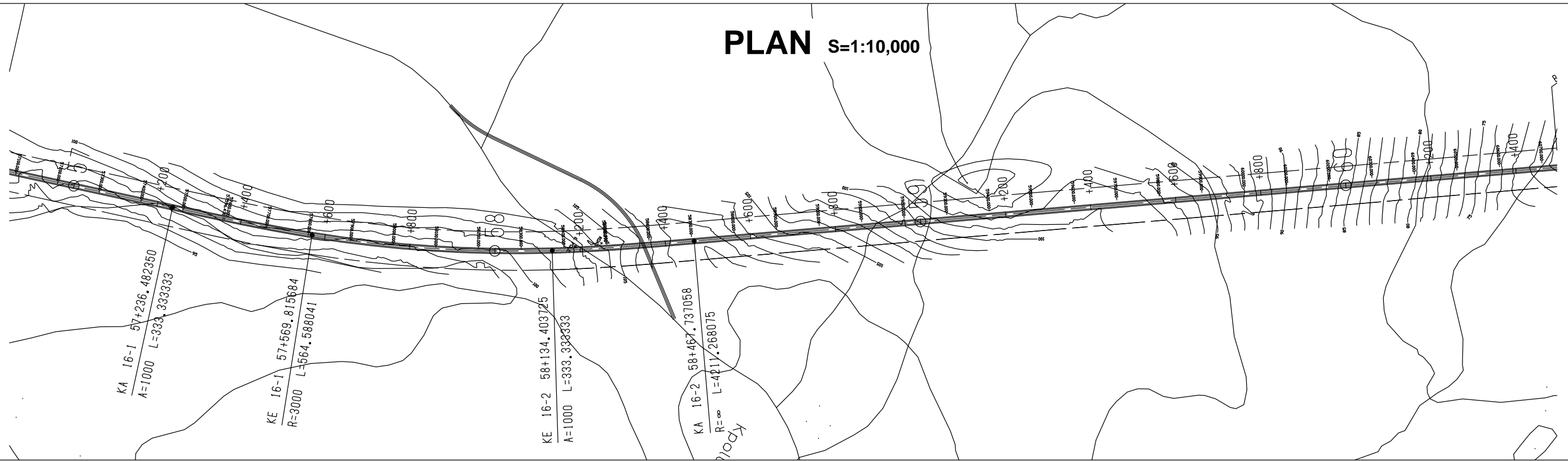
Scale : As Shown      Sheet 19/82



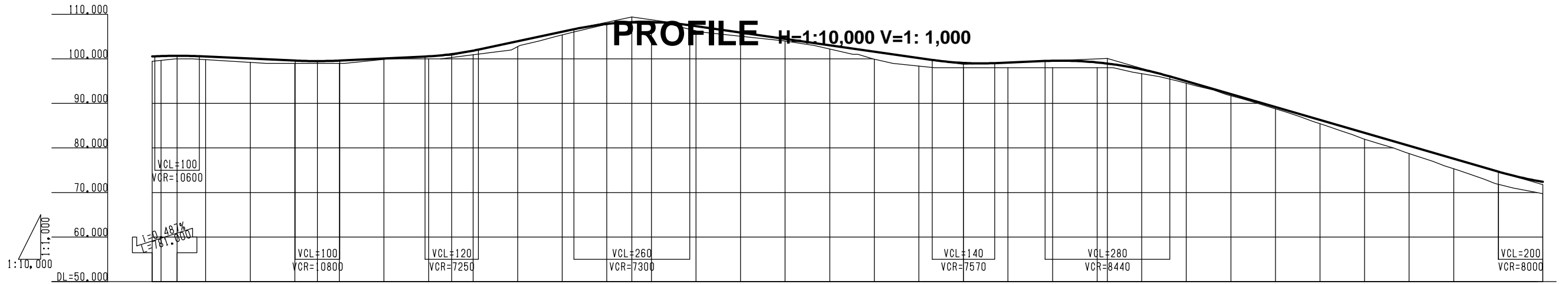
Designed by:	Signature:	<u>Revision</u>				<u>Notes</u> 1. All dimensions are in metre.	<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b> 	Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Checked by:	Signature:							Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. PLAN &amp; PROFILE(19/23)</b>	
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:					
						JAN. 2013			Scale : As Shown	Sheet 20/82



# PLAN S=1:10,000



# PROFILE H=1:10,000 V=1:1,000



Station	Accum. Length	Ground Level	Proposed Level	Gradient
+380.000	57380.000	99.455	100.528	100.800
+400.000	57400.000	99.669	100.616	$I=0.487\%$ $L=315.000$
+436.000	57436.000	100.000	100.683	100.800
+500.000	57500.000	99.823	100.510	99.374
+600.000	57600.000	99.217	100.057	$I=0.474\%$ $L=301.000$
+700.000	57700.000	99.000	99.605	100.800
+751.000	57751.000	99.000	99.490	109.400
+800.000	57800.000	99.000	99.606	$I=2.129\%$ $L=404.000$
+900.000	57900.000	99.885	100.080	109.400
NO. 58	58000.000	100.000	100.566	101.614
+52.000	58052.000	100.313	101.048	$I=1.431\%$ $L=744.000$
+100.000	58100.000	100.919	101.832	98.751
+200.000	58200.000	102.745	103.950	$I=0.417\%$ $L=323.000$
+300.000	58300.000	105.377	106.079	100.098
+400.000	58400.000	107.761	107.833	$I=2.893\%$ $L=977.000$
+456.000	58456.000	108.000	108.243	71.774
+500.000	58500.000	108.000	108.264	
+600.000	58600.000	106.291	107.339	
+700.000	58700.000	105.054	105.908	
+800.000	58800.000	103.978	104.476	
+900.000	58900.000	102.210	103.045	
NO. 59	59000.000	99.924	101.614	
+100.000	59100.000	98.374	100.182	
+200.000	59200.000	98.000	99.074	
+300.000	59300.000	98.000	99.168	
+400.000	59400.000	98.000	99.566	
+500.000	59500.000	98.000	99.192	
+523.000	59523.000	98.000	98.938	
+600.000	59600.000	96.664	97.631	
+700.000	59700.000	94.518	94.967	
+800.000	59800.000	91.721	92.068	
+900.000	59900.000	88.783	89.168	
NO. 60	60000.000	85.438	86.269	
+100.000	60100.000	81.944	83.370	
+200.000	60200.000	78.735	80.471	
+300.000	60300.000	75.341	77.572	
+400.000	60400.000	71.826	74.673	
+500.000	60500.000	69.724	72.398	


Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

**Notes**

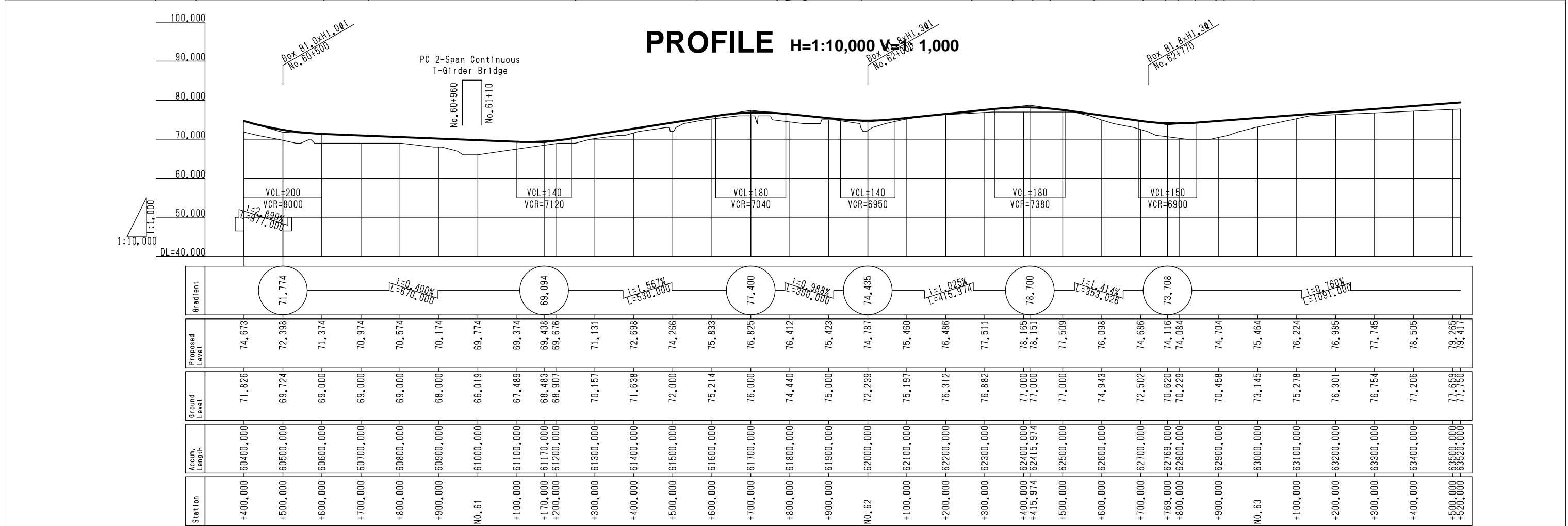
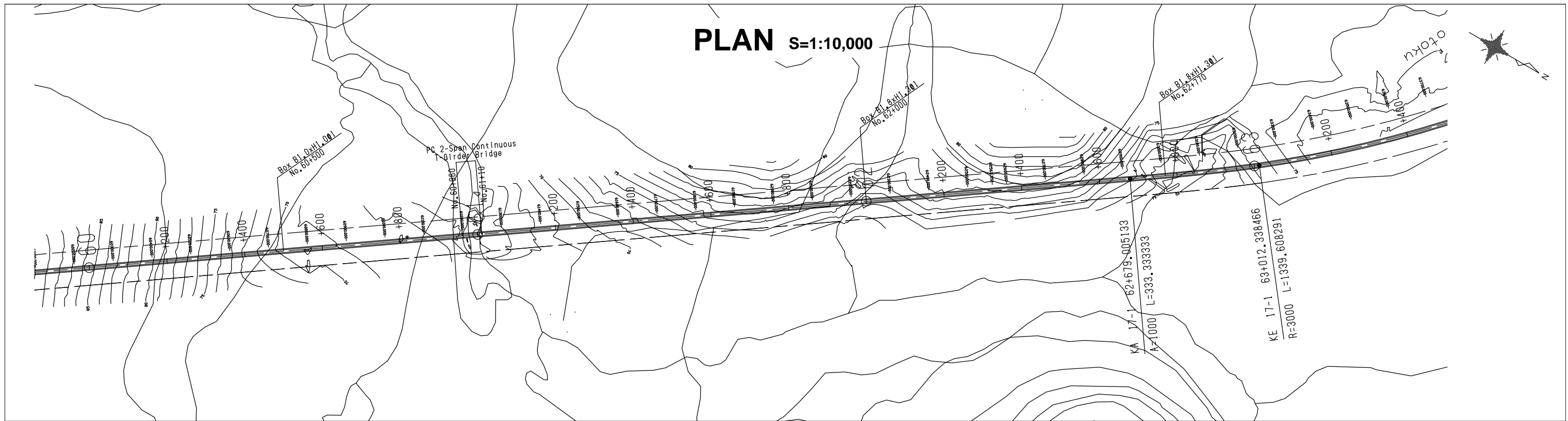
1. All dimensions are in metre.


**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**

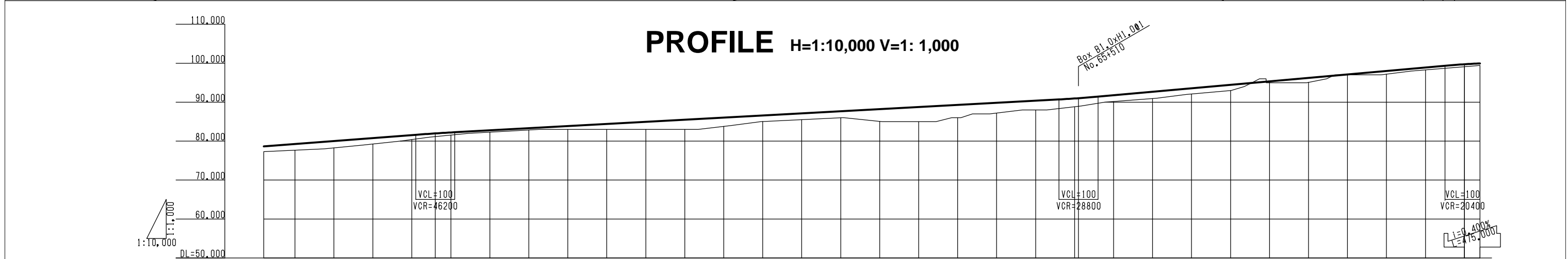
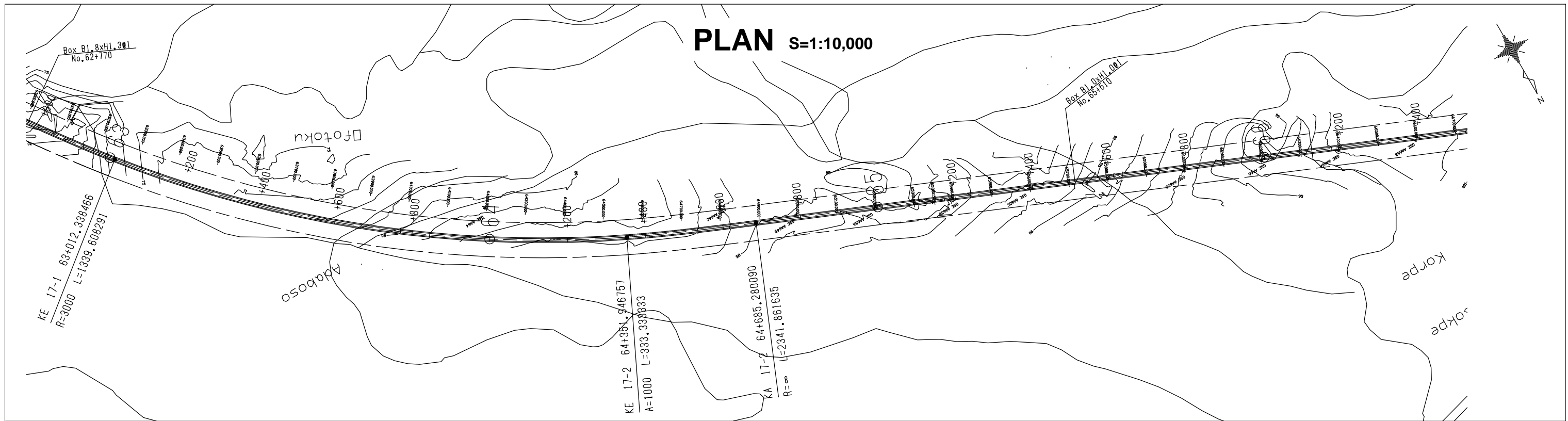


**Project:** JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA  
**Description:** ASUTSUARE JCT. - ASIKUMA JCT. PLAN & PROFILE(20/23)


Scale : As Shown      Sheet 21/82

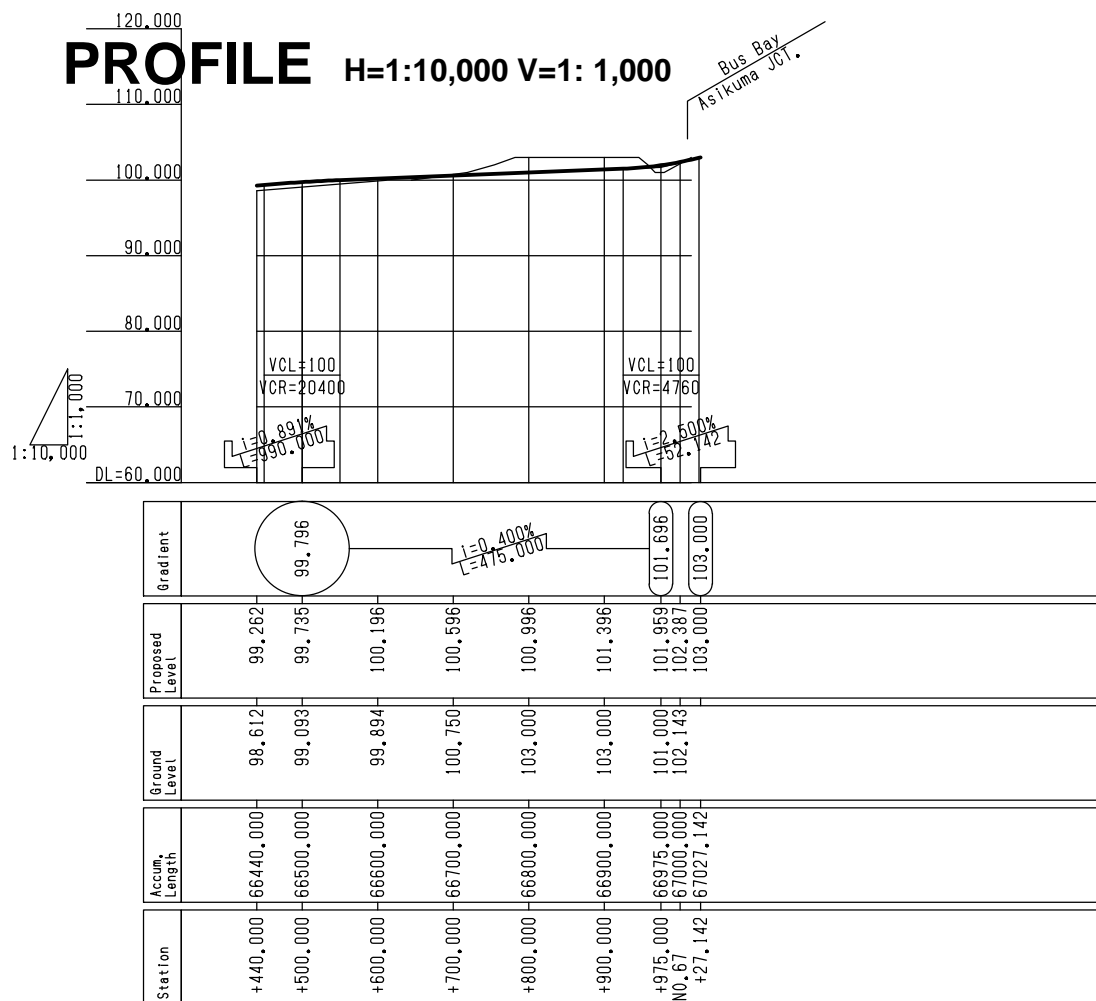
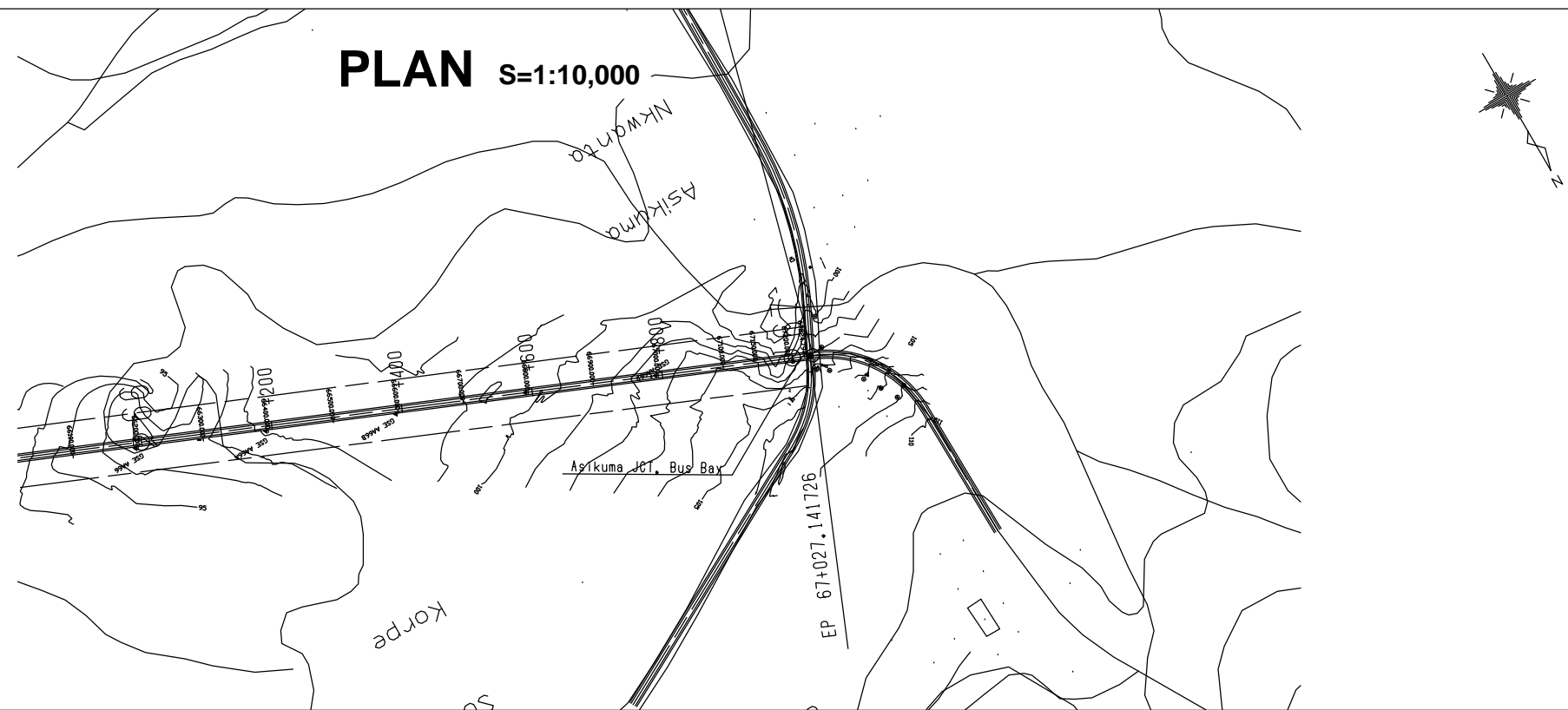


Designed by:	Signature:	<u>Revision</u>	<u>Notes</u>	<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b>	Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b> Description: <b>ASUTSUARE JCT. - ASIKUMA JCT. PLAN &amp; PROFILE(21/23)</b>
Checked by:	Signature:		1. All dimensions are in metre.	 <small>REPUBLIC OF GHANA</small>	
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:
				JAN. 2013	
				Scale : As Shown	Sheet 22/82



Station	Accum. Length	Ground Level	Proposed Level	Gradient
+420.000	63420.000	77.297	78.657	L=0.760% L=1091.000
+500.000	63500.000	77.659	79.265	
+600.000	63600.000	78.249	80.026	
+700.000	63700.000	79.264	80.786	
+800.000	63800.000	80.393	81.546	
+860.000	63860.000	81.143	81.975	
+900.000	63900.000	81.545	82.219	
NO. 64	64000.000	82.299	82.763	
+100.000	64100.000	82.846	83.307	
+200.000	64200.000	83.000	83.851	
+300.000	64300.000	83.000	84.394	
+400.000	64400.000	83.000	84.938	
+500.000	64500.000	83.000	85.482	
+600.000	64600.000	83.791	86.025	
+700.000	64700.000	85.024	86.569	
+800.000	64800.000	85.504	87.113	
+900.000	64900.000	85.983	87.656	
NO. 65	65000.000	85.062	88.200	
+100.000	65100.000	85.000	88.744	
+200.000	65200.000	86.000	89.288	
+300.000	65300.000	87.216	89.831	
+400.000	65400.000	88.000	90.375	
+500.000	65500.000	88.809	90.916	
+510.000	65510.000	88.923	91.016	
+600.000	65600.000	90.176	91.775	
+700.000	65700.000	90.926	92.666	
+800.000	65800.000	92.120	93.558	
+900.000	65900.000	92.987	94.449	
NO. 66	66000.000	95.000	95.340	
+100.000	66100.000	95.094	96.231	
+200.000	66200.000	97.000	97.123	
+300.000	66300.000	97.182	98.014	
+400.000	66400.000	98.292	98.905	
+500.000	66500.000	99.093	99.795	
+540.000	66540.000	99.413	99.954	

Designed by:	Signature:	<u>Revision</u>	<u>Notes</u>	<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b>	Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b> Description: <b>ASUTSUARE JCT. - ASIKUMA JCT. PLAN &amp; PROFILE(22/23)</b>
Checked by:	Signature:		1. All dimensions are in metre.	 <small>REPUBLIC OF GHANA</small>	
Drawn by:	Signature:	Rev. no:	Rev. by:	Date: JAN. 2013	Sign:
					Scale : As Shown      Sheet 23/82



Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

Notes

1. All dimensions are in metre.

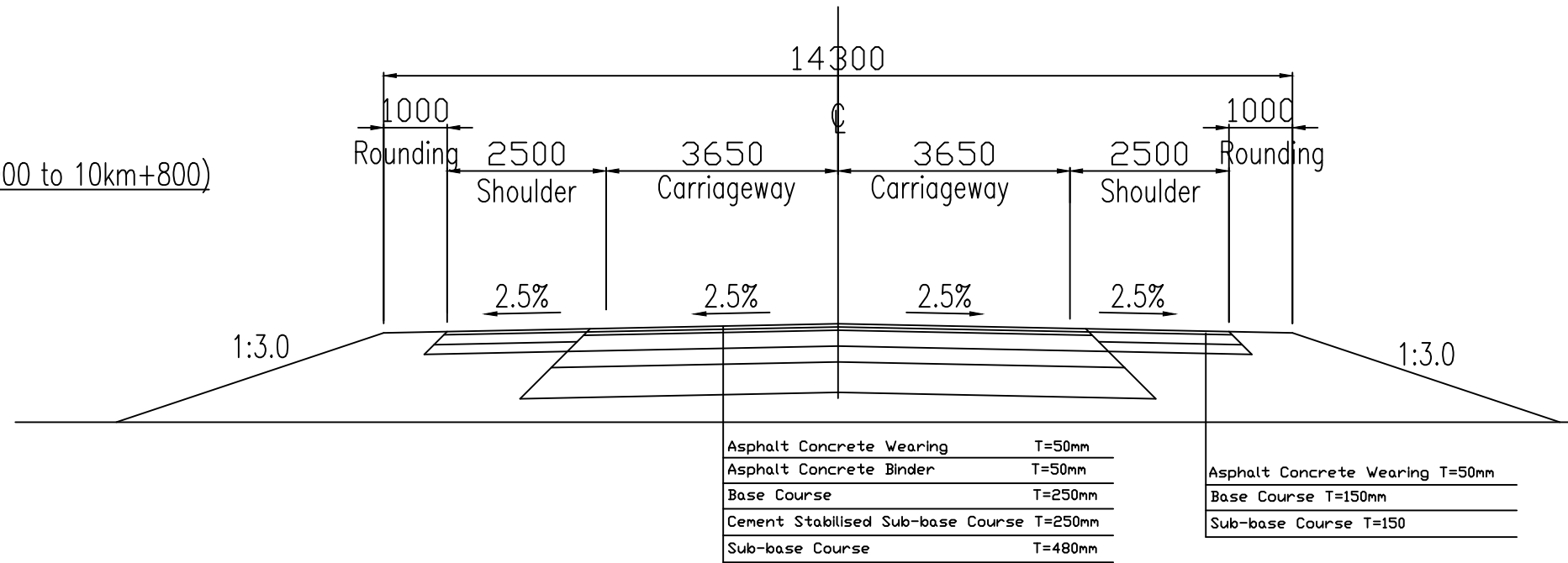
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**

Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. PLAN & PROFILE(23/23)**

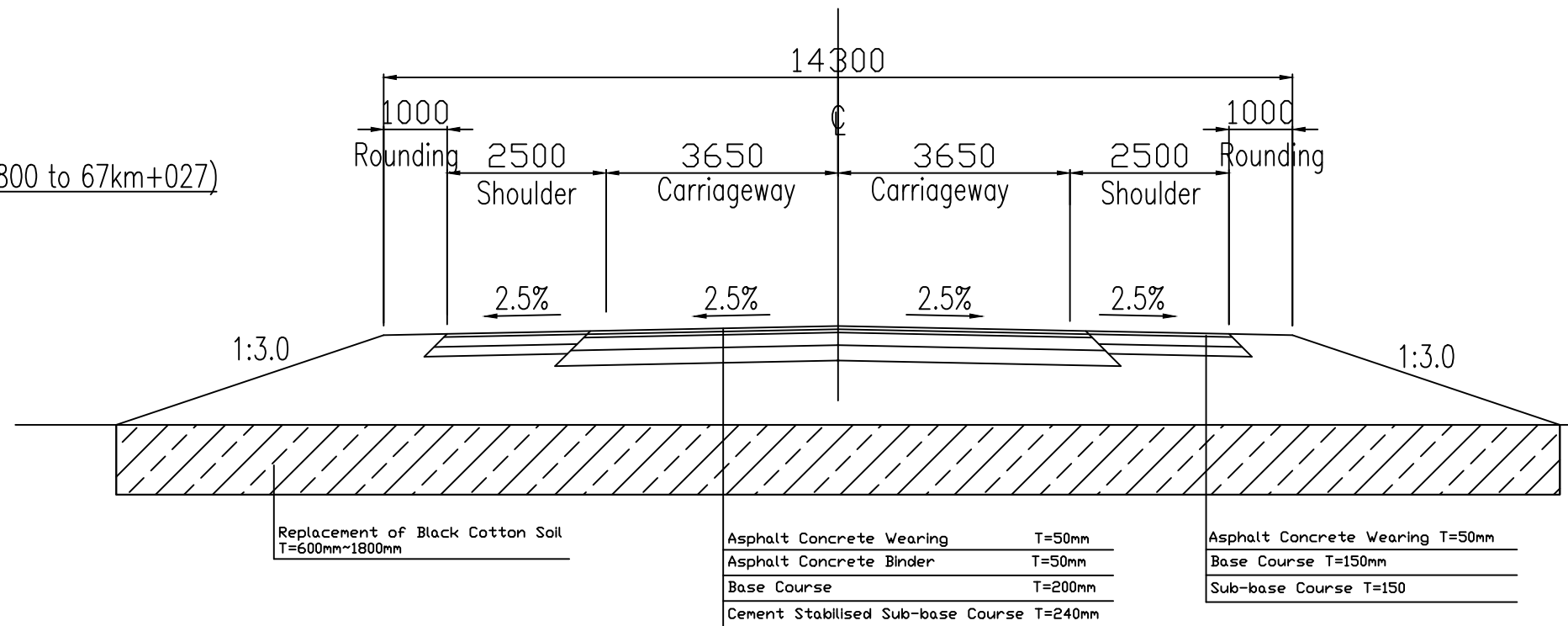
Scale : As Shown      Sheet 24/82

# TYPICAL CROSS-SECTION (1) S=1:100

Earth Works Section (0km+000 to 10km+800)



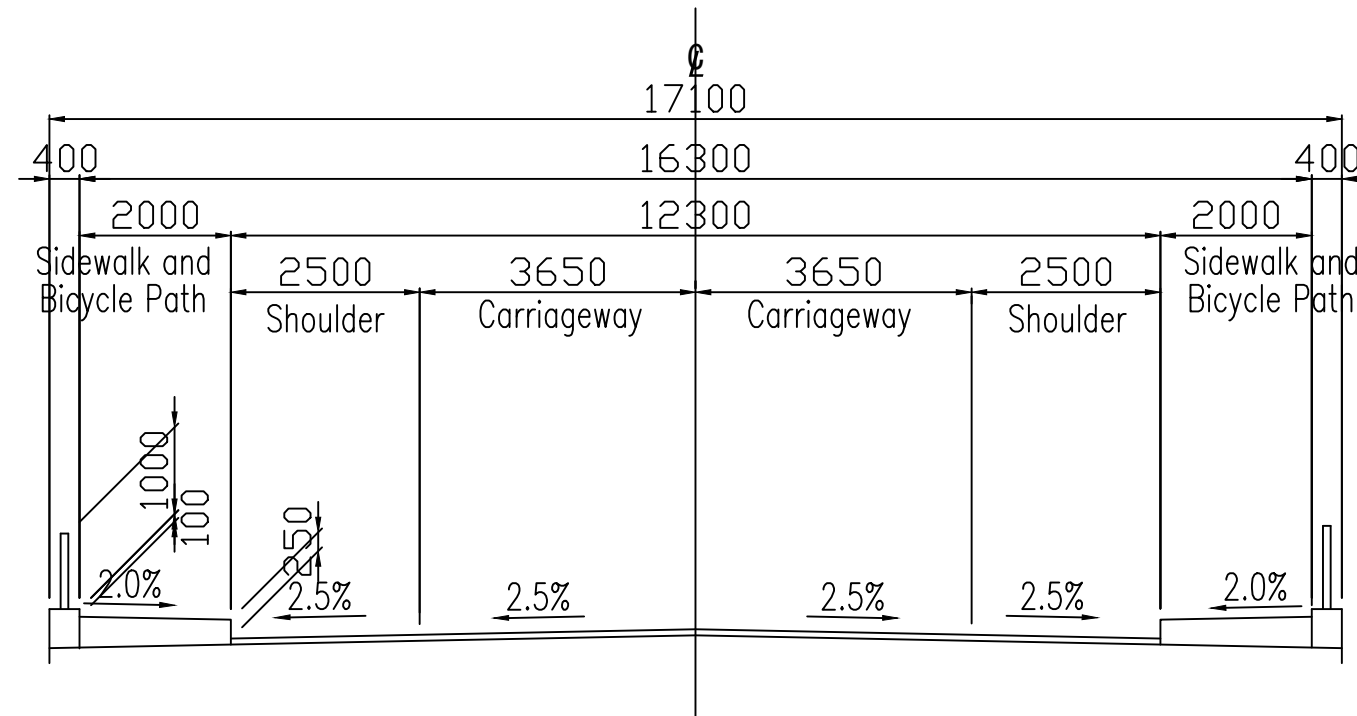
Earth Works Section (10km+800 to 67km+027)



Designed by:	Signature:	<u>Revision</u>				<u>Notes</u>		Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b> 	
Checked by:	Signature:					1. All dimensions are in millimetre.		Description: <b>ASUTSUARE JCT. - ASIKUMA JCT. TYPICAL CROSS-SECTION (1)</b>	
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:			Scale : 1:100      Sheet 25/82	
						REPUBLIC OF GHANA MINISTRY OF ROADS AND HIGHWAYS GHANA HIGHWAY AUTHORITY 			

# TYPICAL CROSS-SECTION (2) S=1:200

Volta River Bridge and Other Bridges

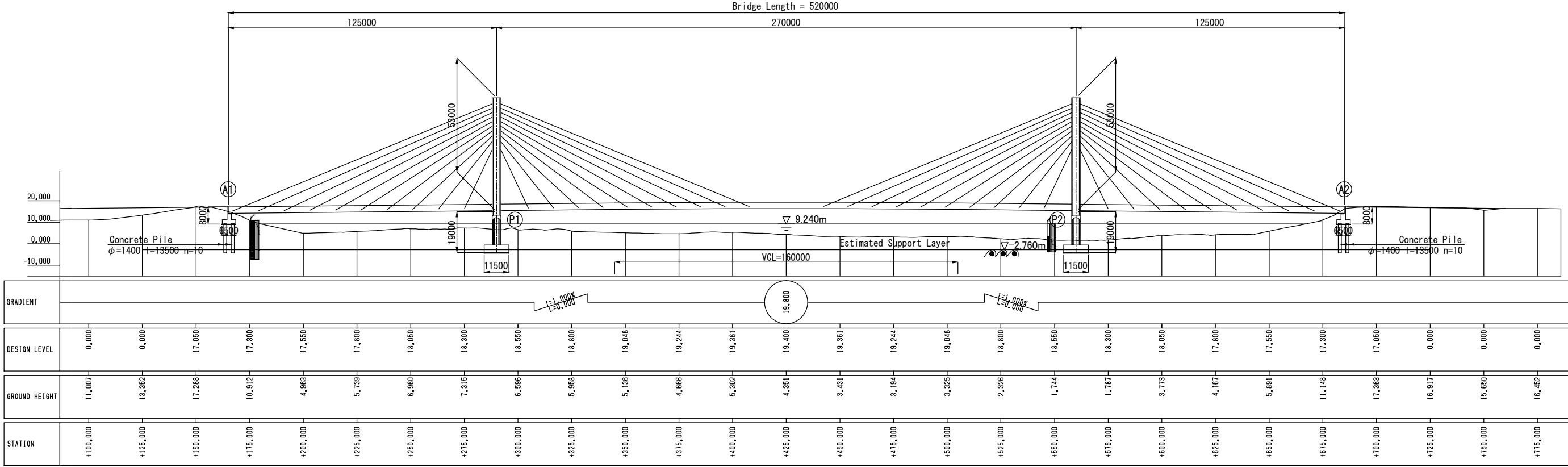


Designed by:	Signature:	<u>Revision</u>				<u>Notes</u>		Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b> 
Checked by:	Signature:					1. All dimensions are in millimetre.  REPUBLIC OF GHANA MINISTRY OF ROADS AND HIGHWAYS GHANA HIGHWAY AUTHORITY  		
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:			
				JAN. 2013				Sheet 26/82

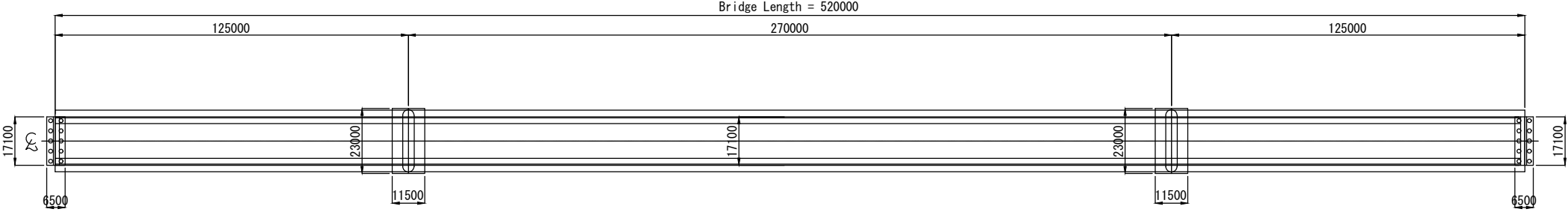
# GENERAL PLAN OF BRIDGE ACROSS VOLTA RIVER (1) S=1:1000

## <Steel Cable-Stayed Bridge>

### ELEVATION



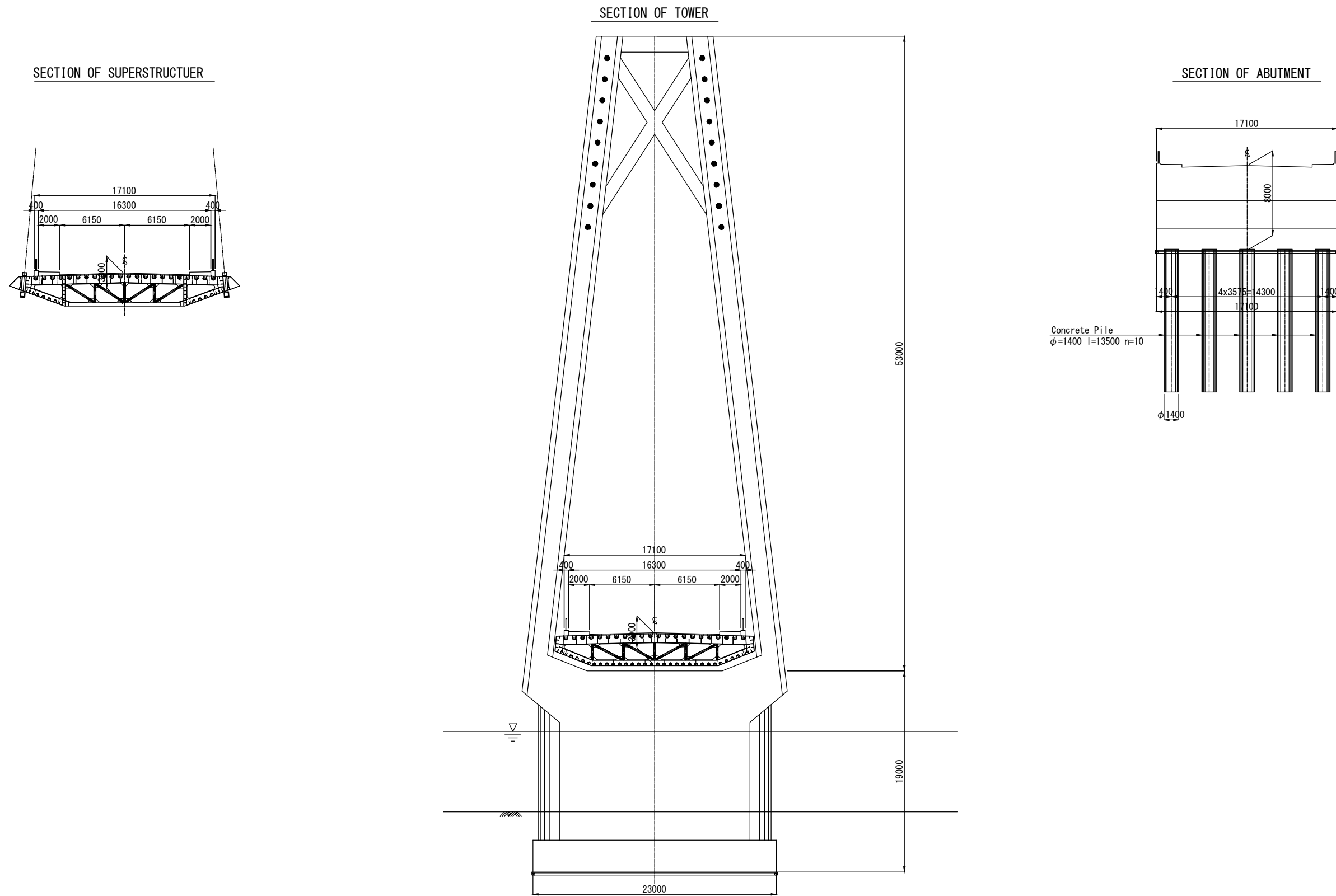
### PLAN



Designed by:	Signature:	<u>Revision</u>				<u>Notes</u>		1. All dimensions are in millimetre.	REPUBLIC OF GHANA MINISTRY OF ROADS AND HIGHWAYS GHANA HIGHWAY AUTHORITY REPUBLIC OF GHANA	Project:	JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA		
Checked by:	Signature:					Description:	GENERAL PLAN OF BRIDGE ACROSS VOLTA RIVER (1)						
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:					Scale : 1:1000	Sheet 27/82		

# GENERAL PLAN OF BRIDGE ACROSS VOLTA RIVER (2) S=1:200

<Steel Cable-Stayed Bridge>




Designed by:	Signature:	<u>Revision</u>			
Checked by:	Signature:				
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:
				JAN. 2013	

Notes

1. All dimensions are in millimetre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



REPUBLIC OF GHANA

Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

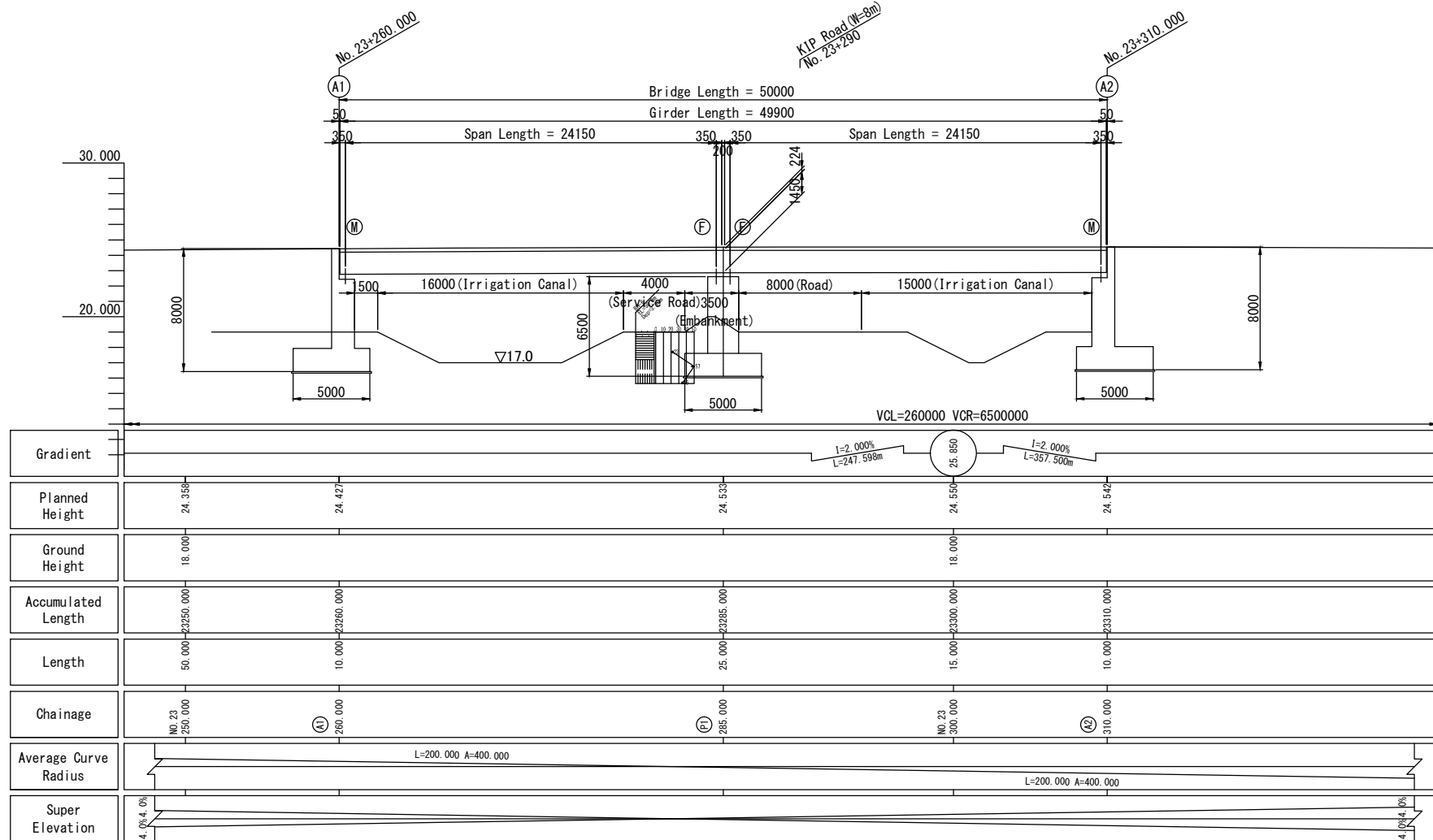
Description: **GENERAL PLAN OF BRIDGE ACROSS VOLTA RIVER (2)**

Scale : 1:200      Sheet 28/82

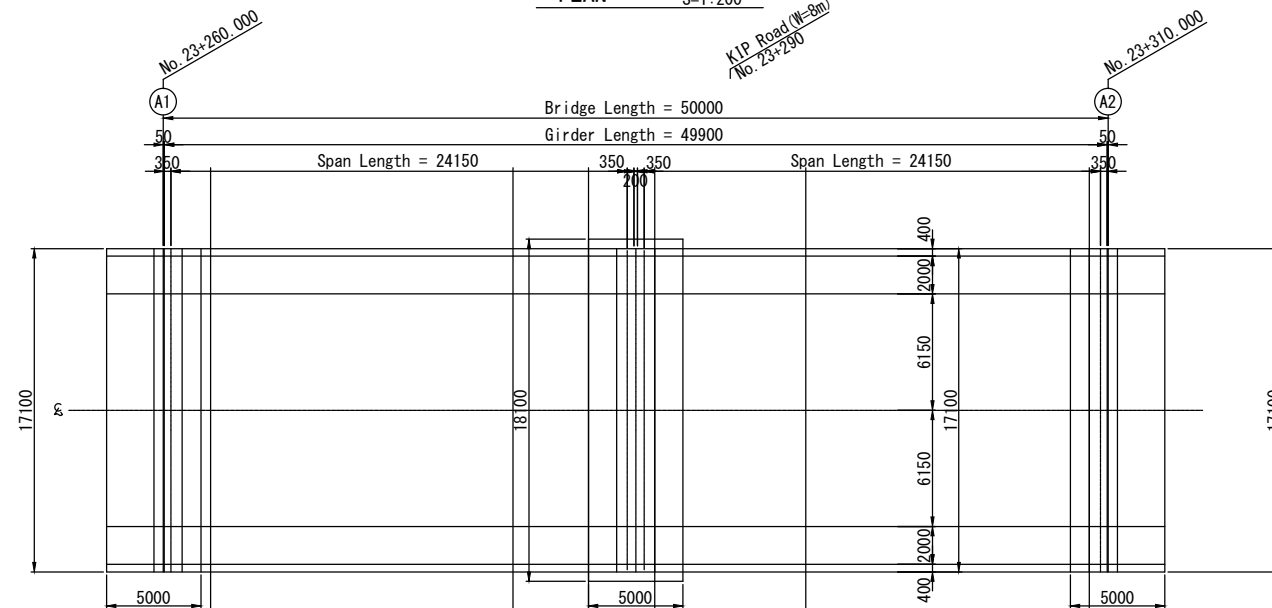


# GENERAL PLAN OF BRIDGE ACROSS APGIP CANAL <PC 2-Span Continuous T-Girder Bridge> S=1:200

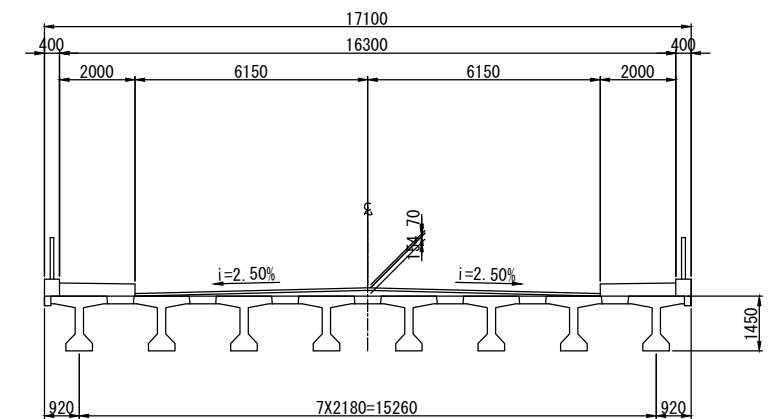
ELEVATION S=1:200



## PLAN S=1:200



## CROSS SECTION S=1:100



Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

Notes

1. All dimensions are in millimetre.

REPUBLIC OF GHANA  
MINISTRY OF ROADS AND HIGHWAYS  
GHANA HIGHWAY AUTHORITY

Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

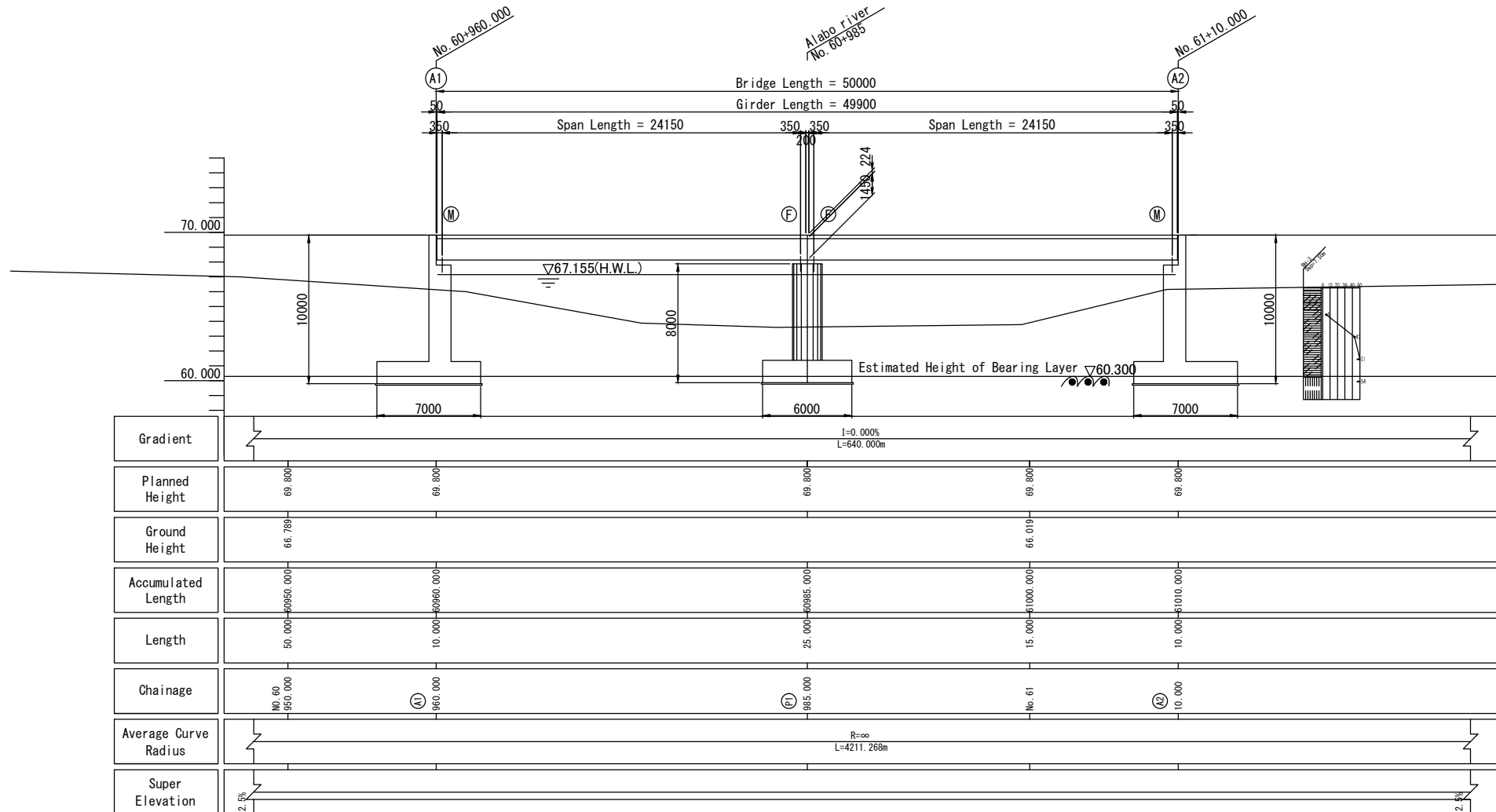
Description: **GENERAL PLAN OF BRIDGE ACROSS APGIP CANAL**

Scale : As Shown

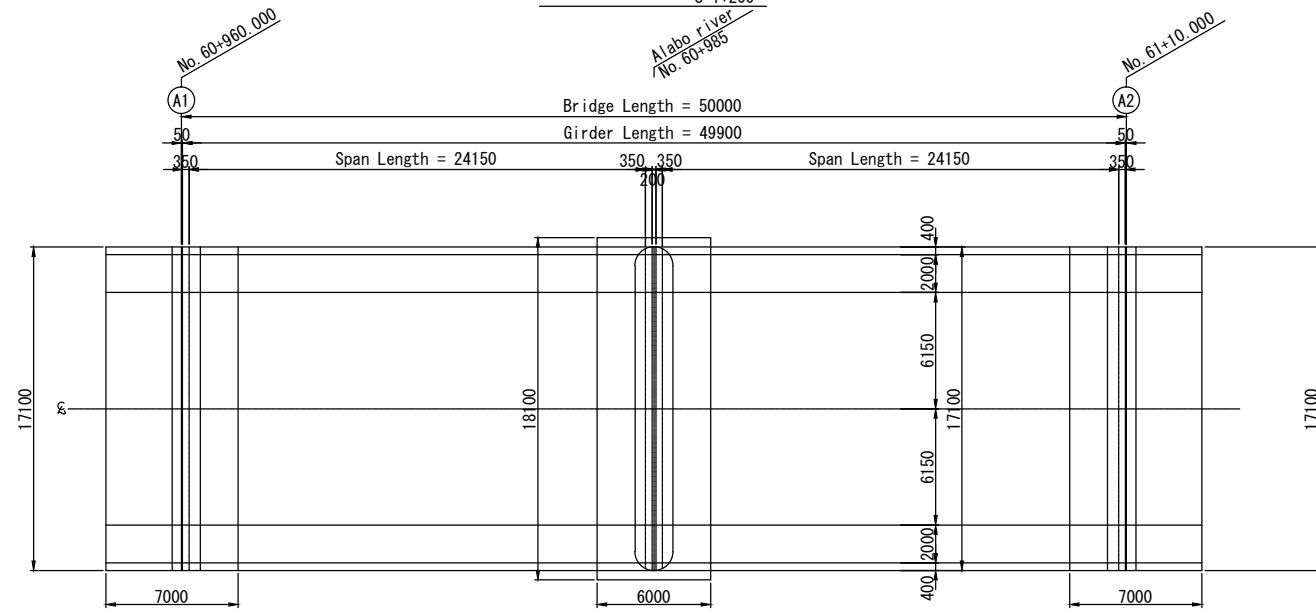
Sheet 29/82

# GENERAL PLAN OF BRIDGE ACROSS ALABO RIVER <PC 2-Span Continuous T-Girder Bridge> S=1:200

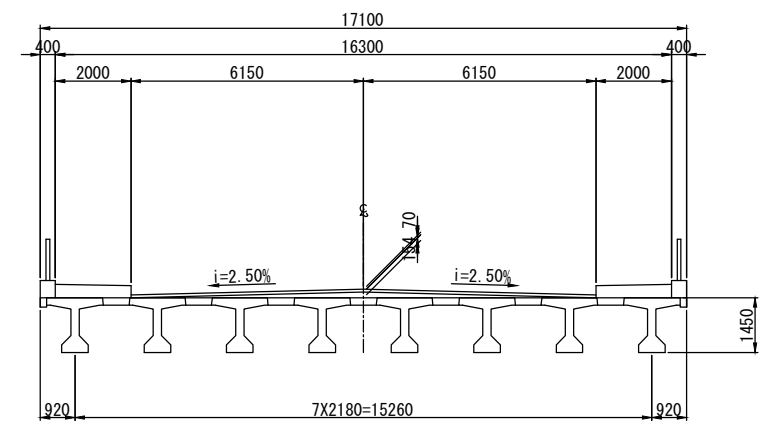
ELEVATION S=1:200



PLAN S=1:200



CROSS SECTION S=1:100




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

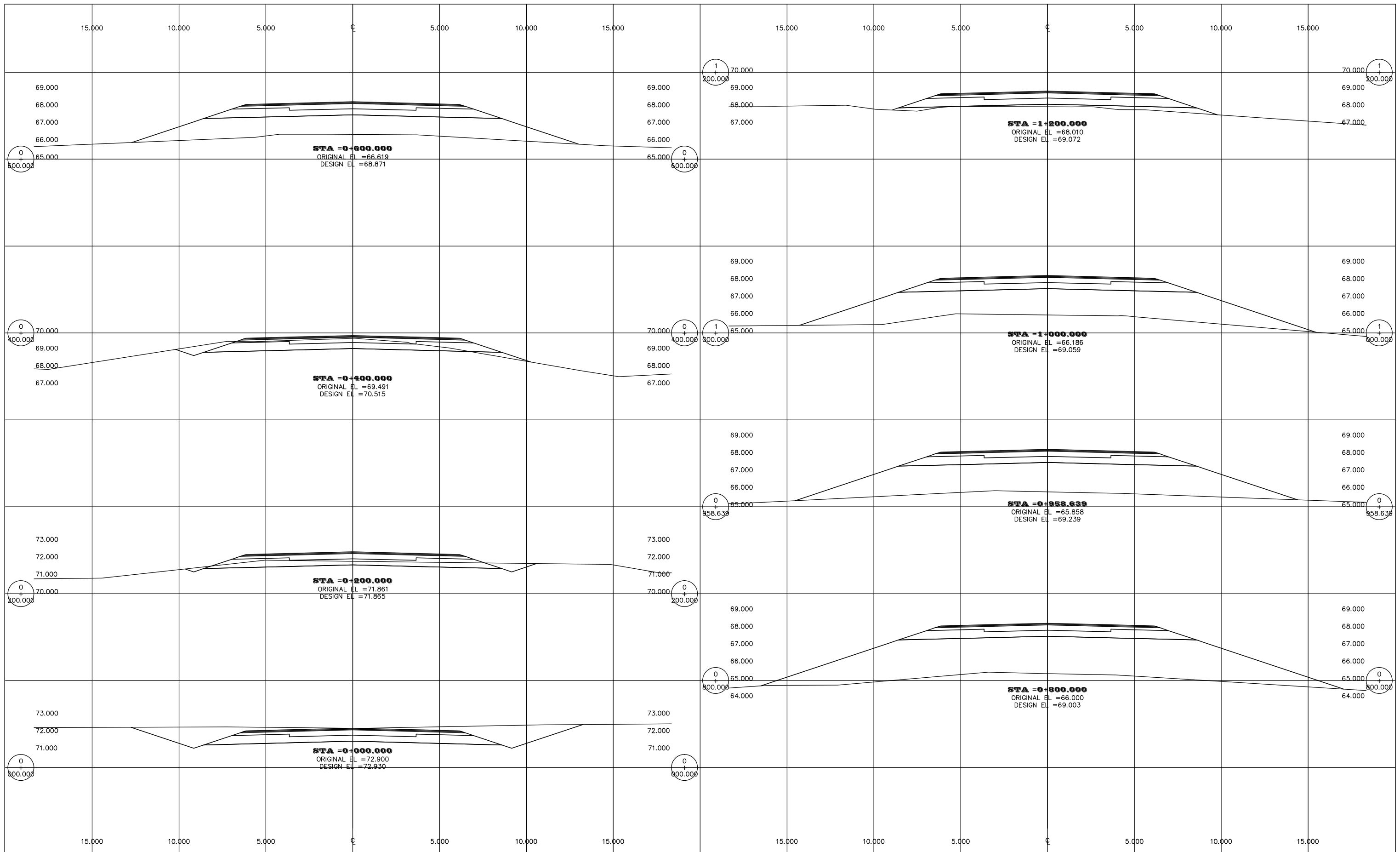
Notes

1. All dimensions are in millimetre.

REPUBLIC OF GHANA  
MINISTRY OF ROADS AND HIGHWAYS  
GHANA HIGHWAY AUTHORITY



Project:	JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA		
Description:	GENERAL PLAN OF BRIDGE ACROSS ALABO RIVER		
	Scale : As Shown	Sheet 30/82	



Designed by: \_\_\_\_\_  
Checked by: \_\_\_\_\_  
Drawn by: \_\_\_\_\_


Signature: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Signature: \_\_\_\_\_

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**

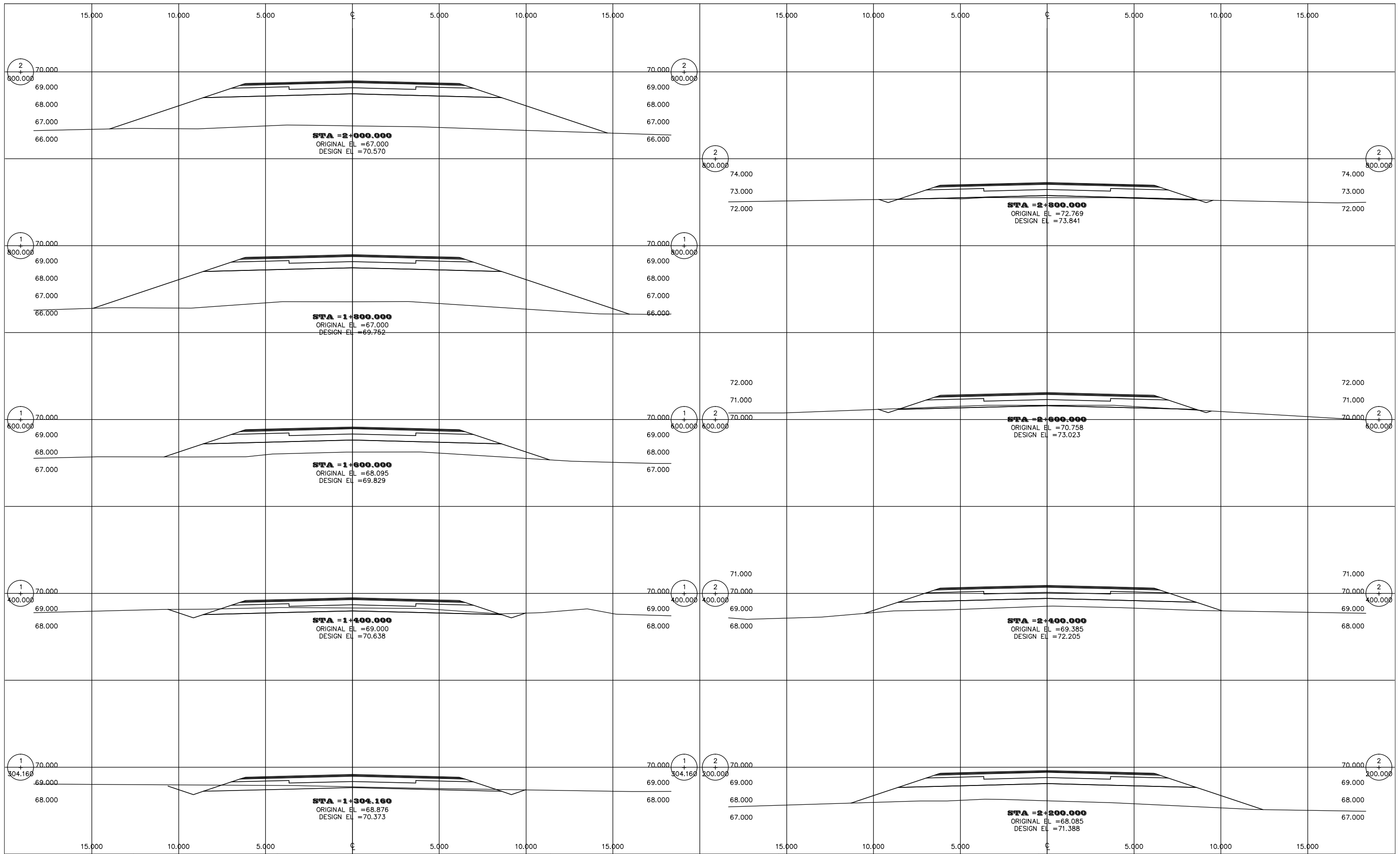


REPUBLIC OF GHANA

Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (1/45)**

Scale : 1:200      Sheet 31/82



Designed by:  
Checked by:  
Drawn by:

Signature:  
Signature:  
Signature:

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

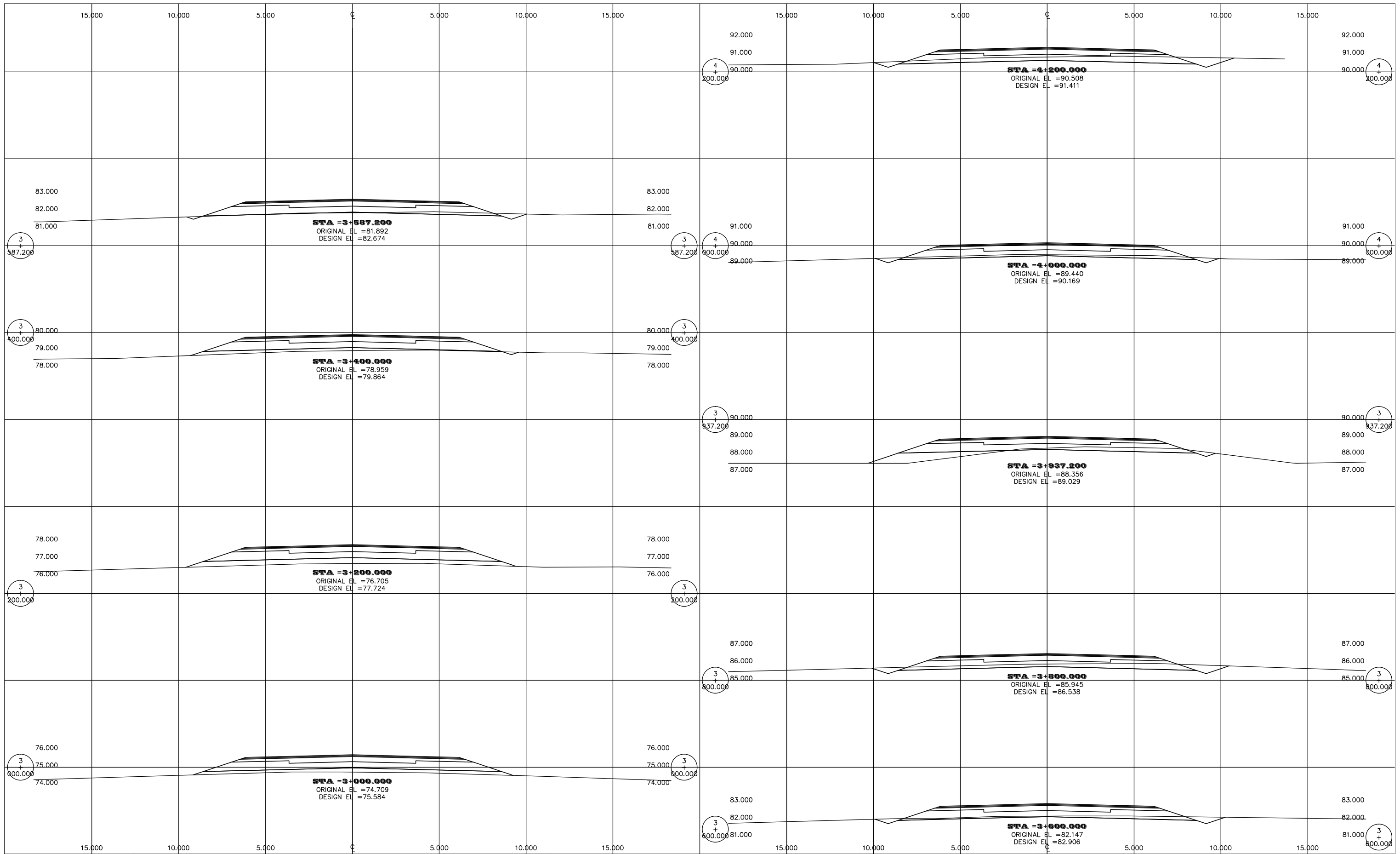
Notes  
1. All dimensions are in metre.

REPUBLIC OF GHANA  
MINISTRY OF ROADS AND HIGHWAYS  
GHANA HIGHWAY AUTHORITY

Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (2/45)**

Scale : 1:200      Sheet 32/82



Designed by: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Checked by: \_\_\_\_\_  
 Signature: \_\_\_\_\_


Drawn by: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**

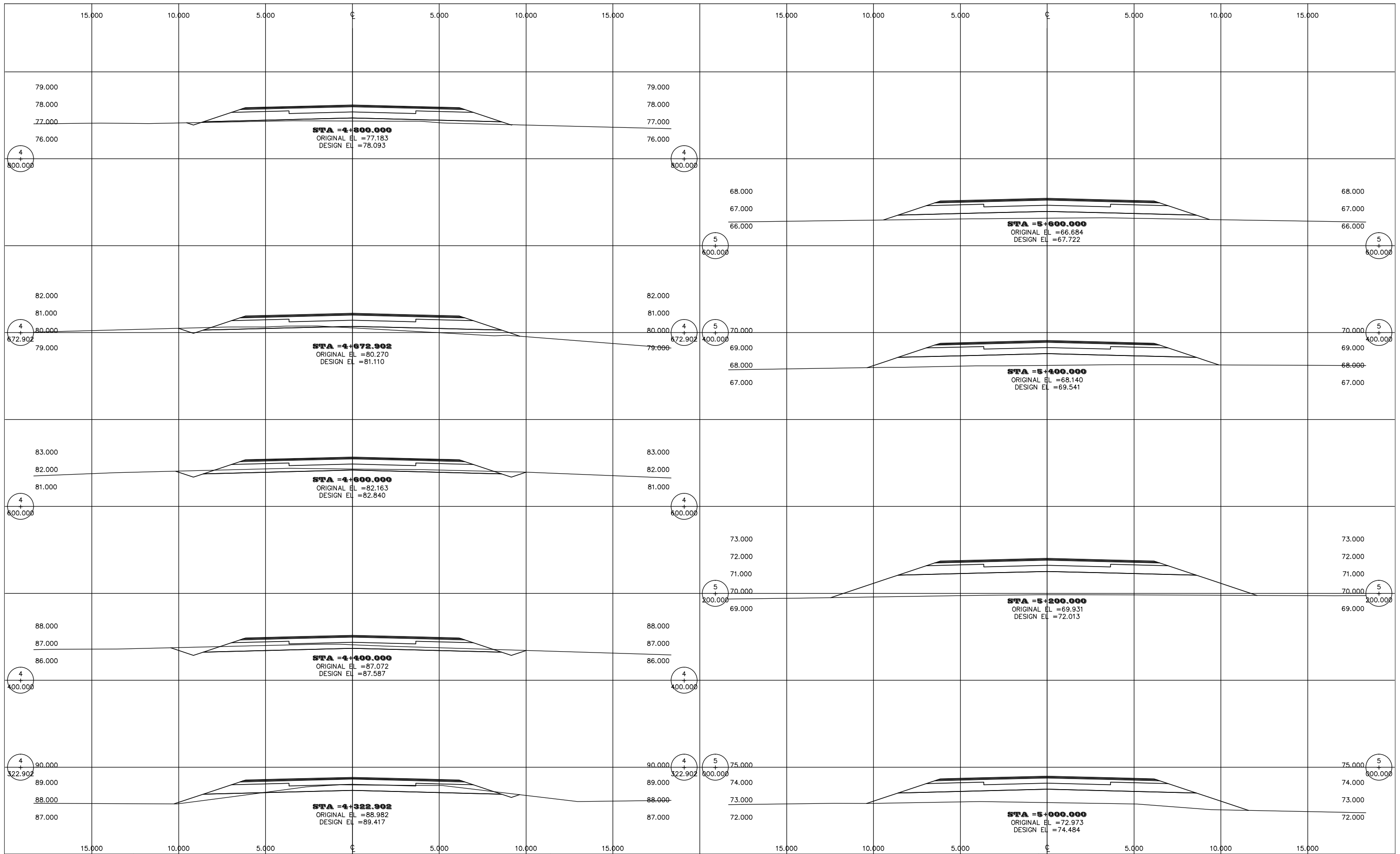


Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (3/45)**

Scale : 1:200

Sheet 33/82



Designed by: \_\_\_\_\_  
 Checked by: \_\_\_\_\_  
 Drawn by: \_\_\_\_\_


Signature: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes

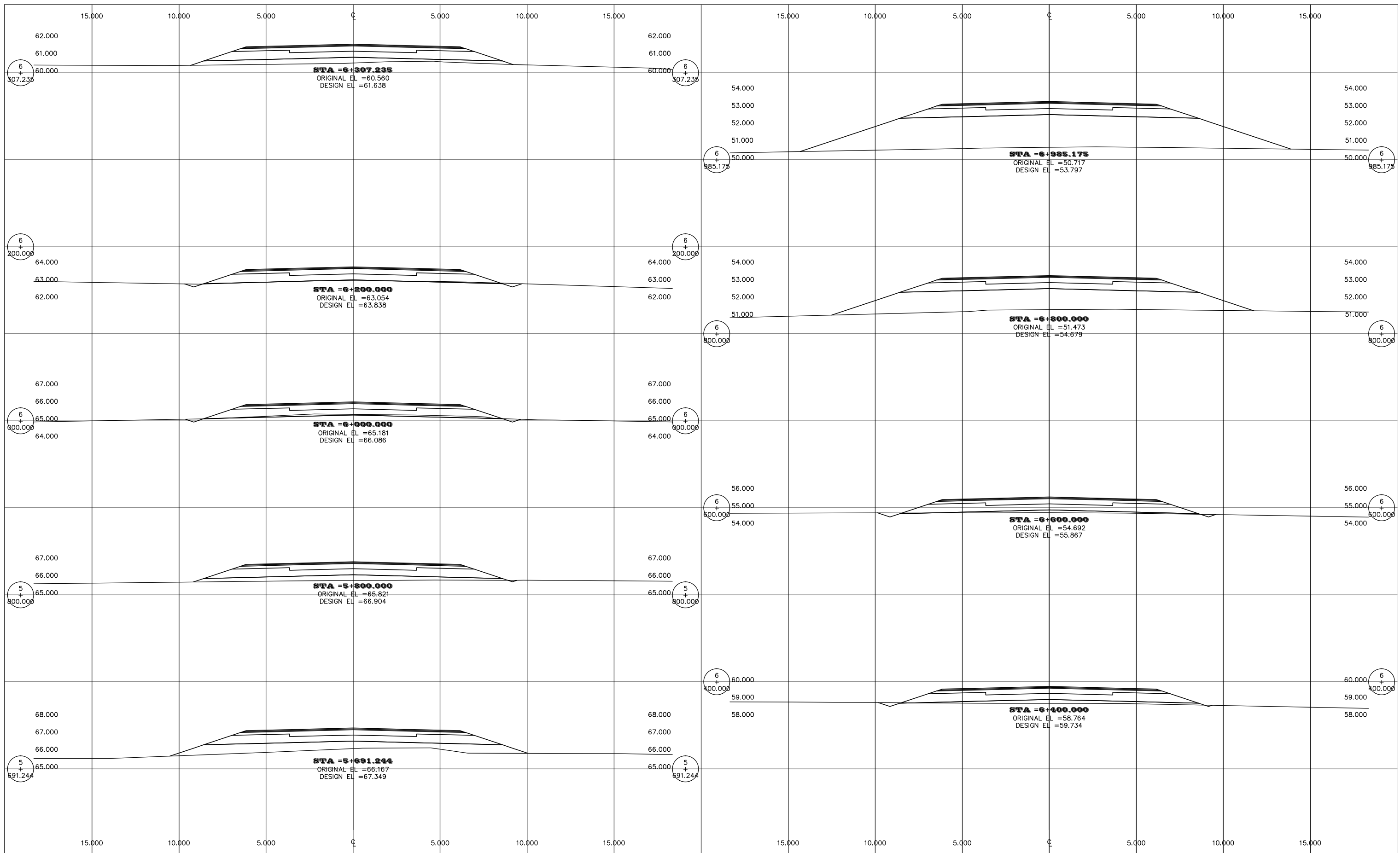
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (4/45)**

Scale : 1:200      Sheet 34/82




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

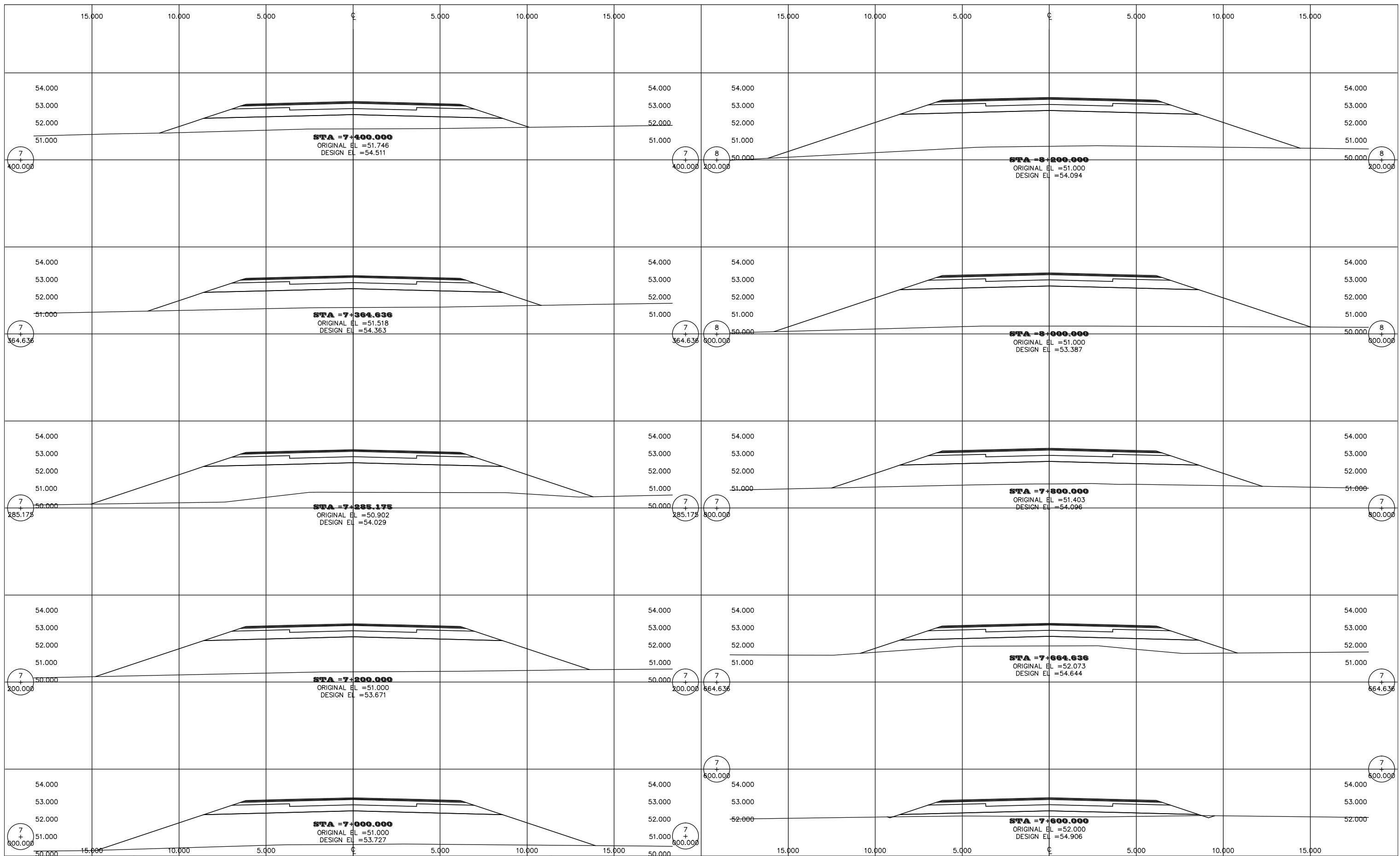
**Notes**

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (5/45)</b>
Scale :	1:200
Sheet	35/82




Designed by:	Signature:	<u>Revision</u>			
Checked by:	Signature:				
Drawn by:	Signature:				
		Rev. no:	Rev. by:	Date:	Sign:
				JAN. 2013	

Notes

1. All dimensions are in metre.

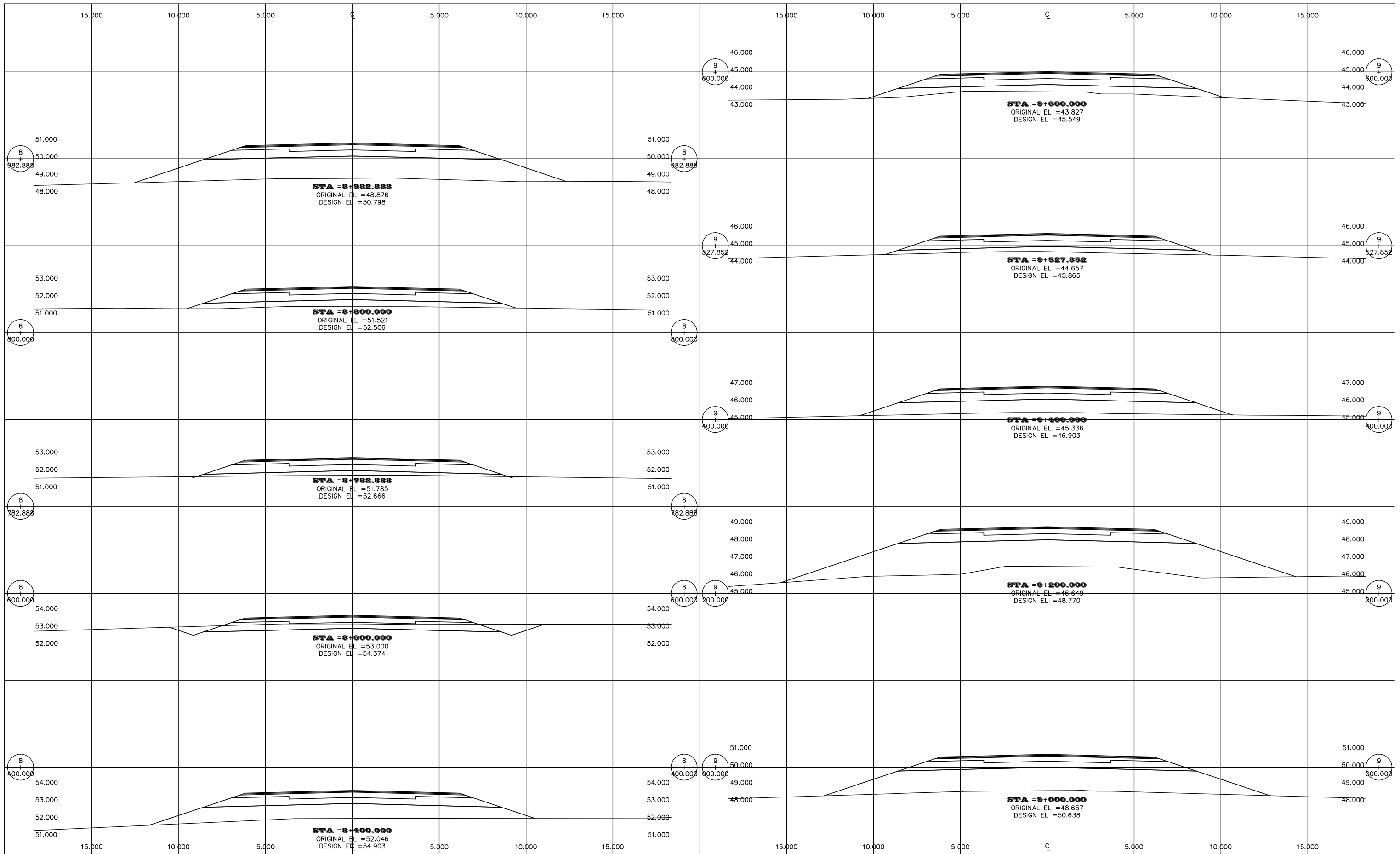
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (6/45)**

Scale : 1:200      Sheet 36/82





Designed by: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Checked by: \_\_\_\_\_  
 Signature: \_\_\_\_\_


Drawn by: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

Notes

1. All dimensions are in metre.

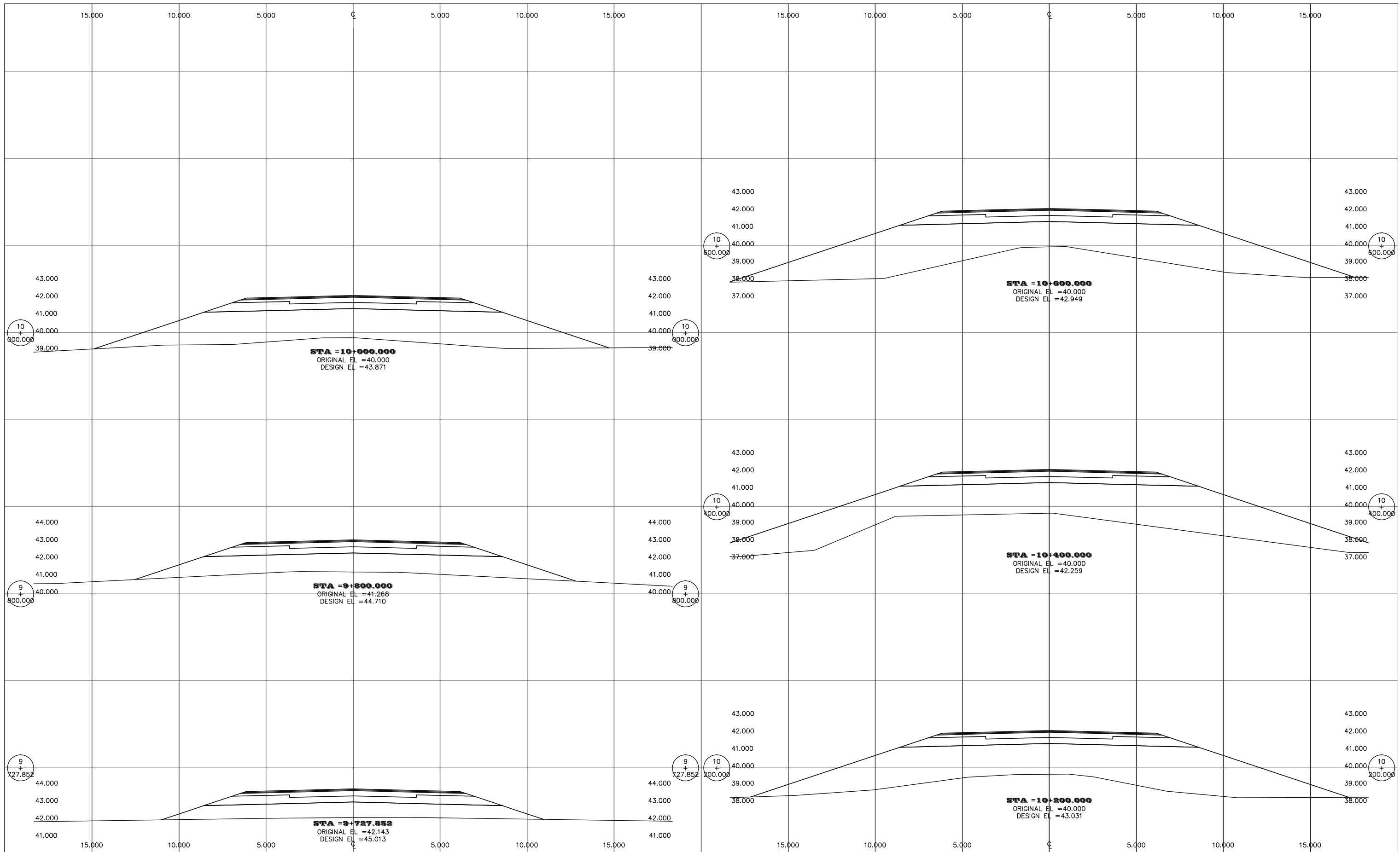
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (7/45)**

Scale : 1:200      Sheet 37/82



Designed by: \_\_\_\_\_  
Signature: \_\_\_\_\_

Checked by: \_\_\_\_\_  
Signature: \_\_\_\_\_


Drawn by: \_\_\_\_\_  
Signature: \_\_\_\_\_

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

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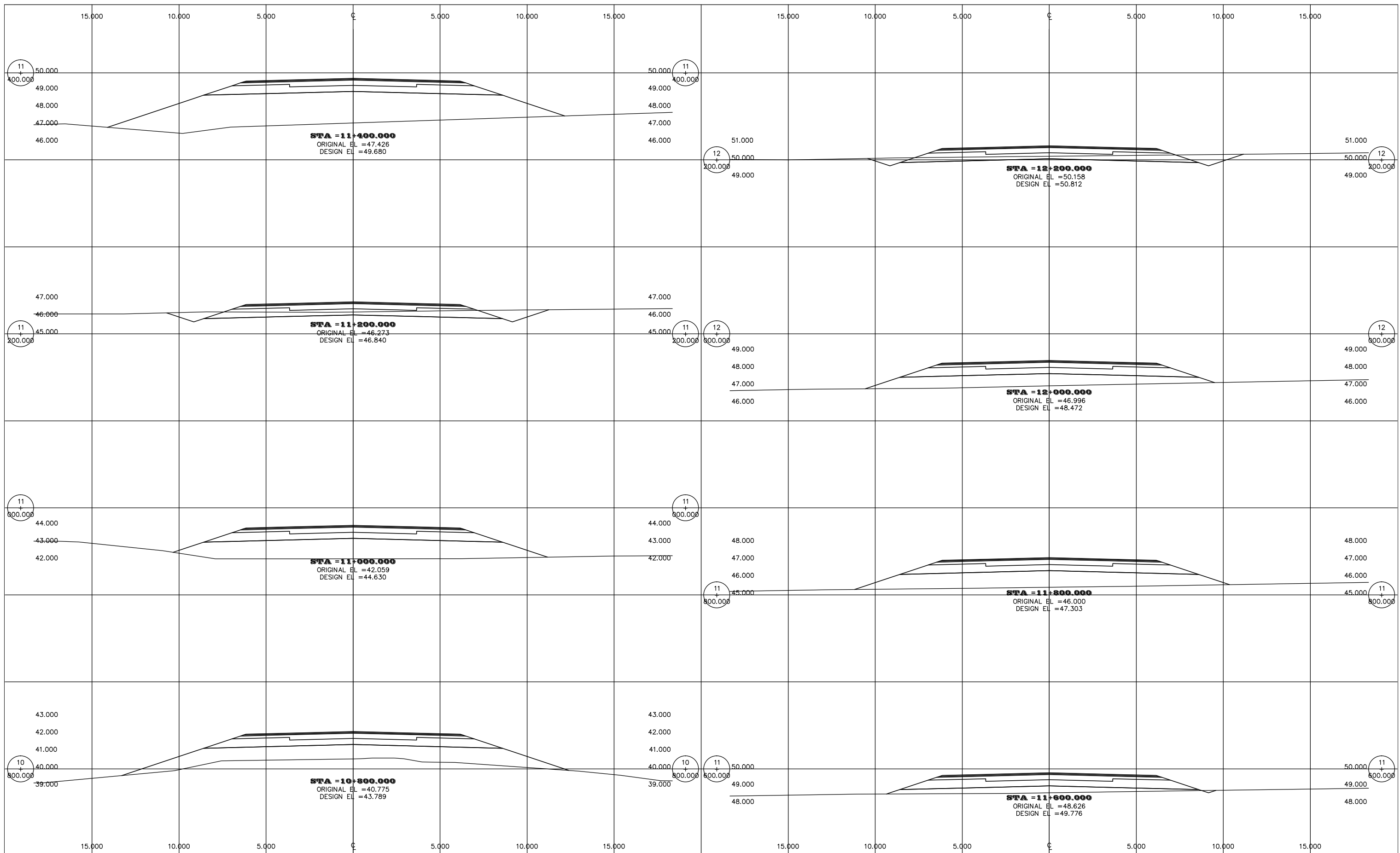
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (8/45)**

Scale : 1:200      Sheet 38/82



Designed by: \_\_\_\_\_  
 Signature: \_\_\_\_\_

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 Signature: \_\_\_\_\_

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

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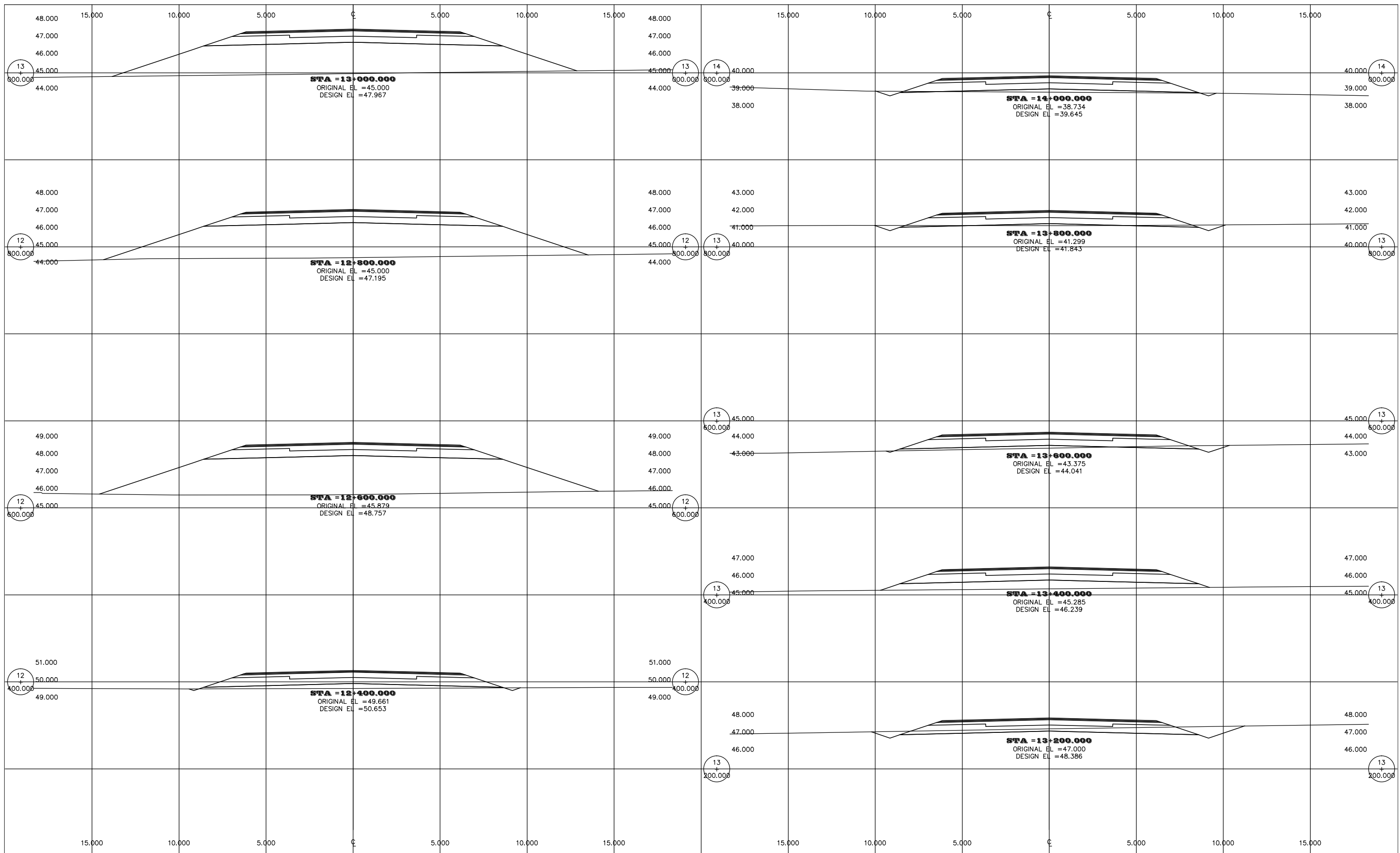
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (9/45)**

Scale : 1:200      Sheet 39/82



Designed by: \_\_\_\_\_  
Checked by: \_\_\_\_\_  
Drawn by: \_\_\_\_\_


Signature: \_\_\_\_\_  
Signature: \_\_\_\_\_  
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Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

Notes

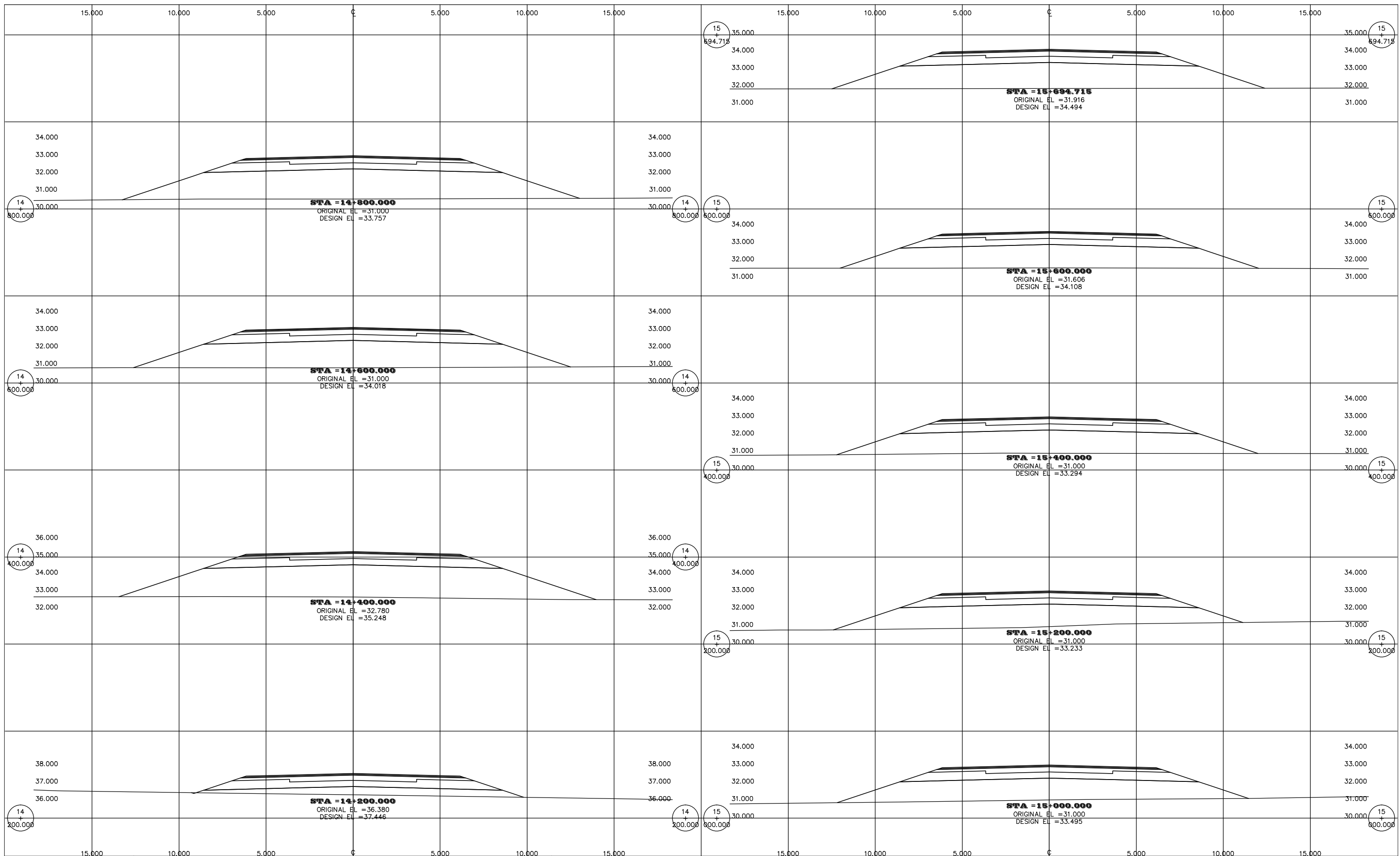
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (10/45)**

Scale : 1:200      Sheet 40/82




Designed by:  
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Signature:  
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Signature:

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

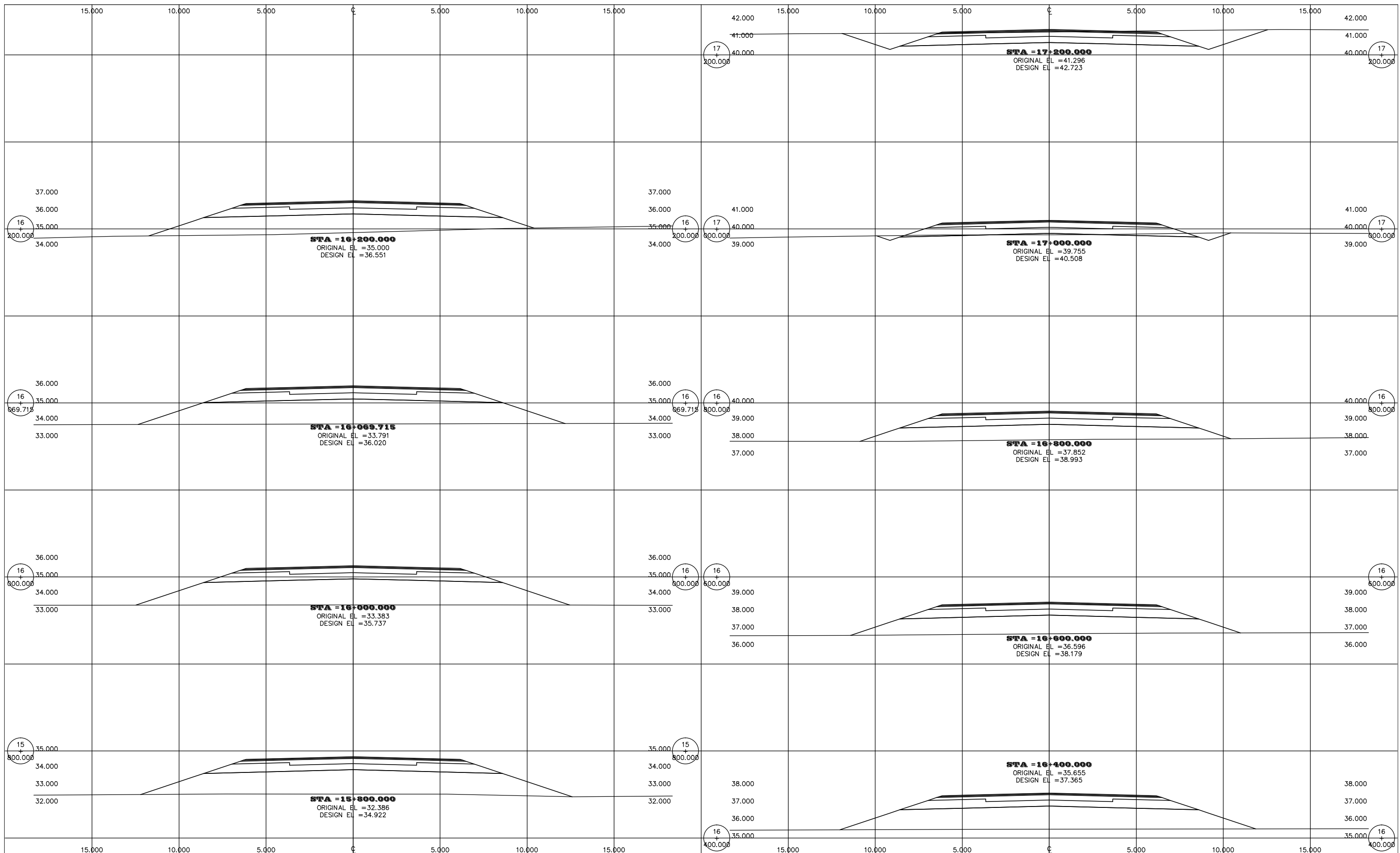
Notes  
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (11/45)**

Scale : 1:200      Sheet 41/82




Designed by:	Signature:
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Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

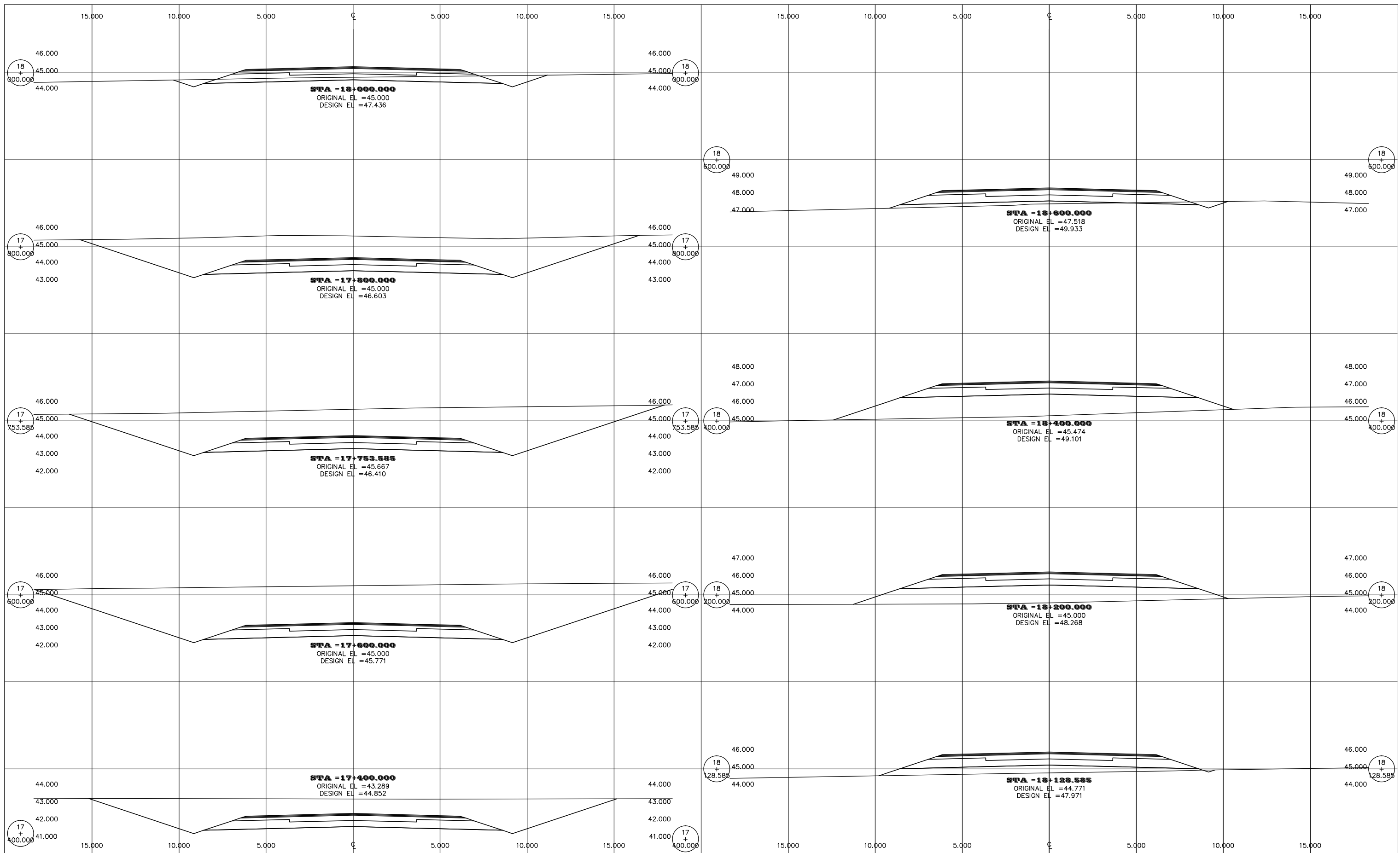
**Notes**

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (12/45)</b>
Scale :	1:200
Sheet	42/82



Designed by: \_\_\_\_\_  
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		JAN. 2013		

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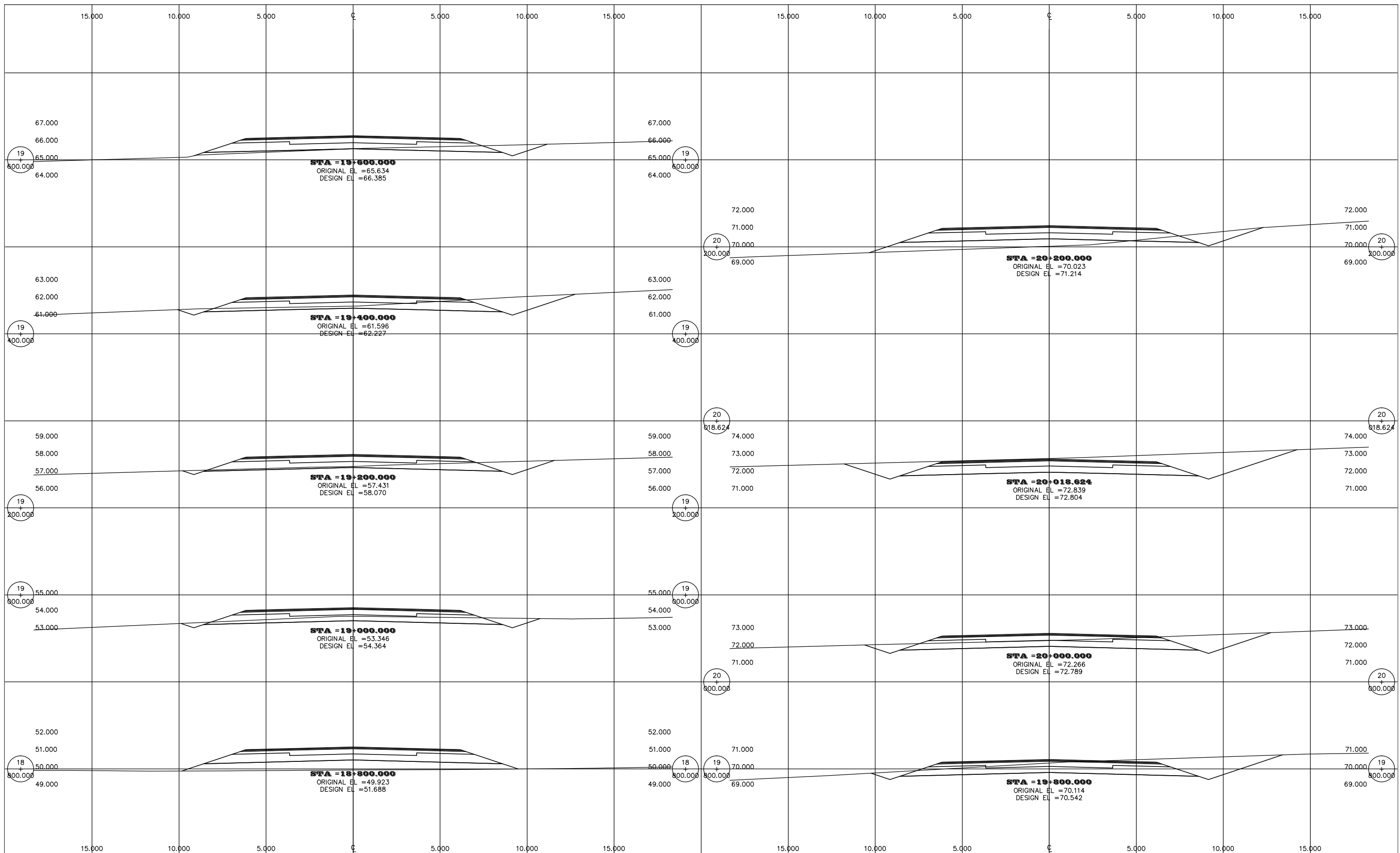
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (13/45)**

Scale : 1:200      Sheet 43/82




Designed by:	Signature:
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Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

**Notes**

1. All dimensions are in metre.

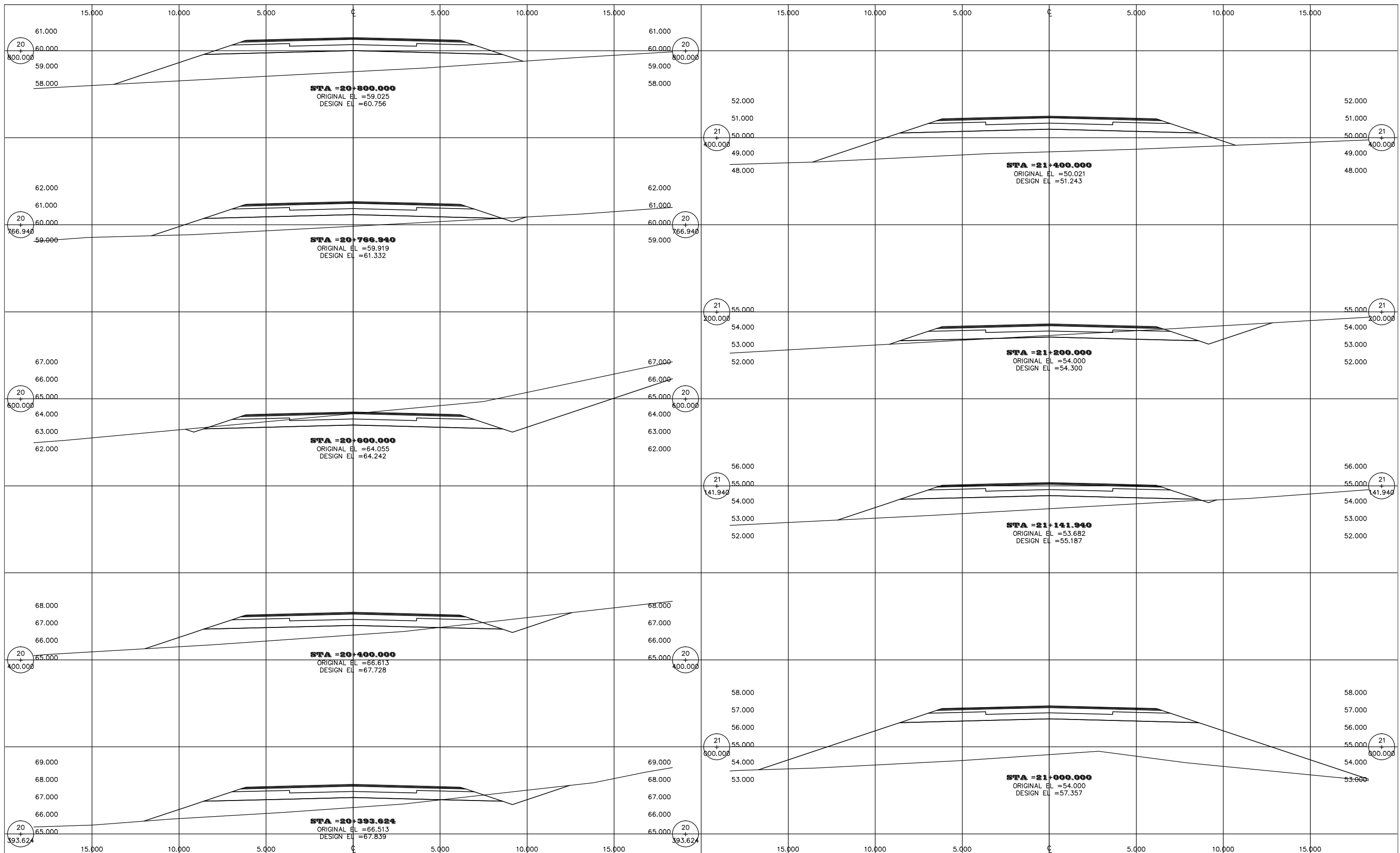
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



**Project:** JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA  
**Description:** ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (14/45)

Scale : 1:200      Sheet 44/82





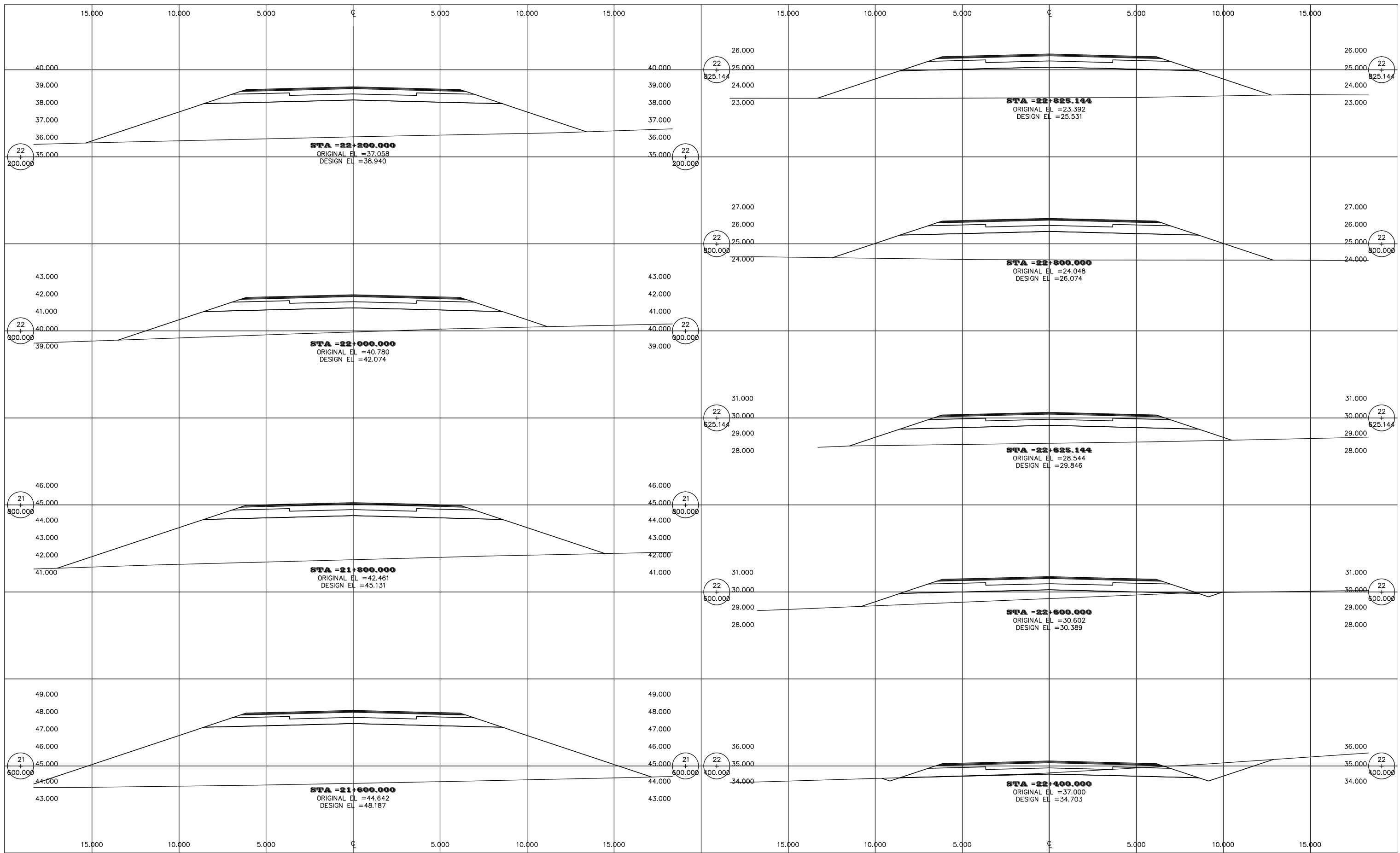
Designed by:	Signature:	<u>Revision</u>			
Checked by:	Signature:	<u>Notes</u> 1. All dimensions are in metre.			
Drawn by:	Signature:				
		Rev. no:	Rev. by:	Date:	Sign:
				JAN. 2013	

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (15/45)**



Designed by: \_\_\_\_\_  
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Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

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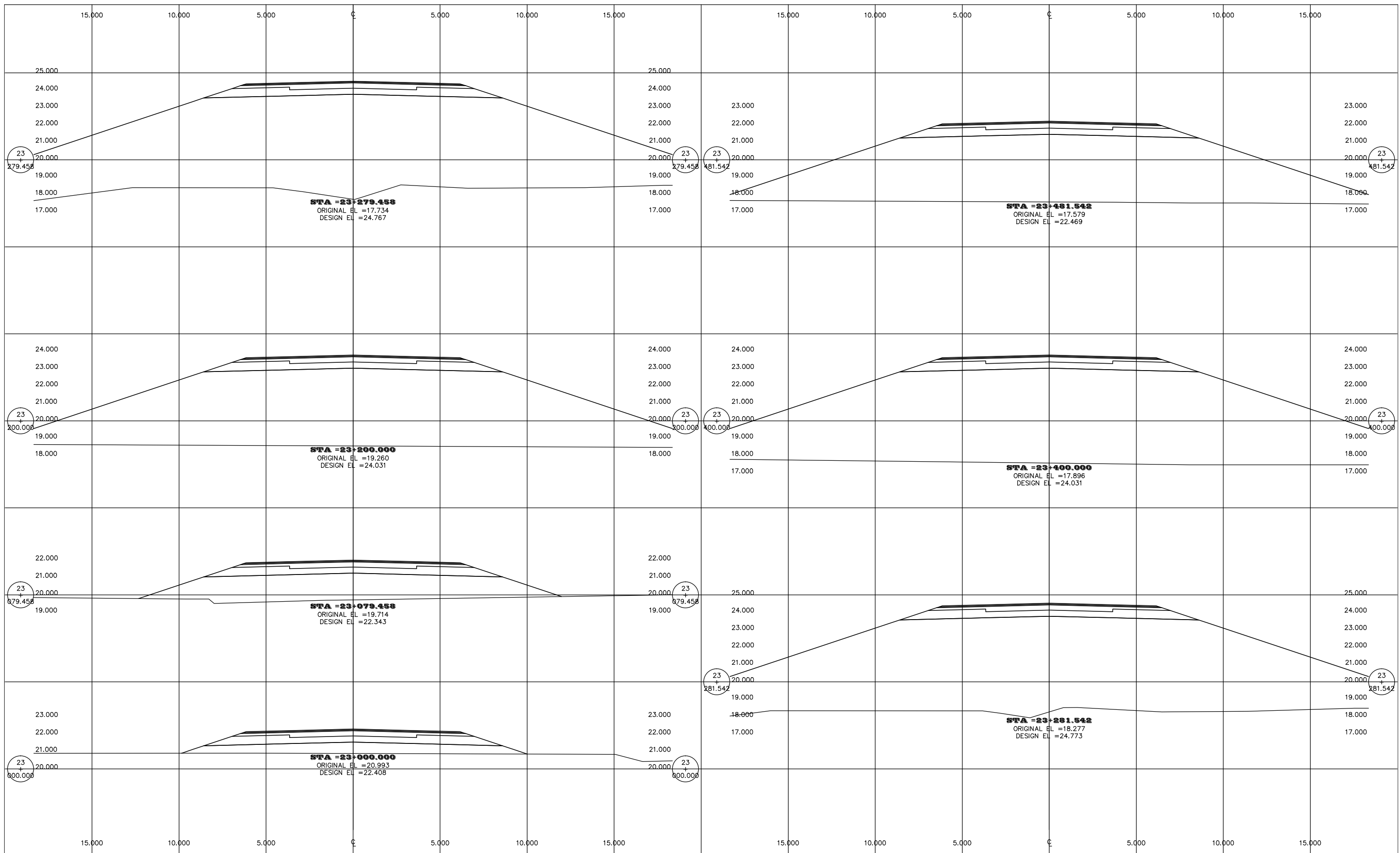
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (16/45)**

Scale : 1:200      Sheet 46/82




Designed by:	Signature:
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Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

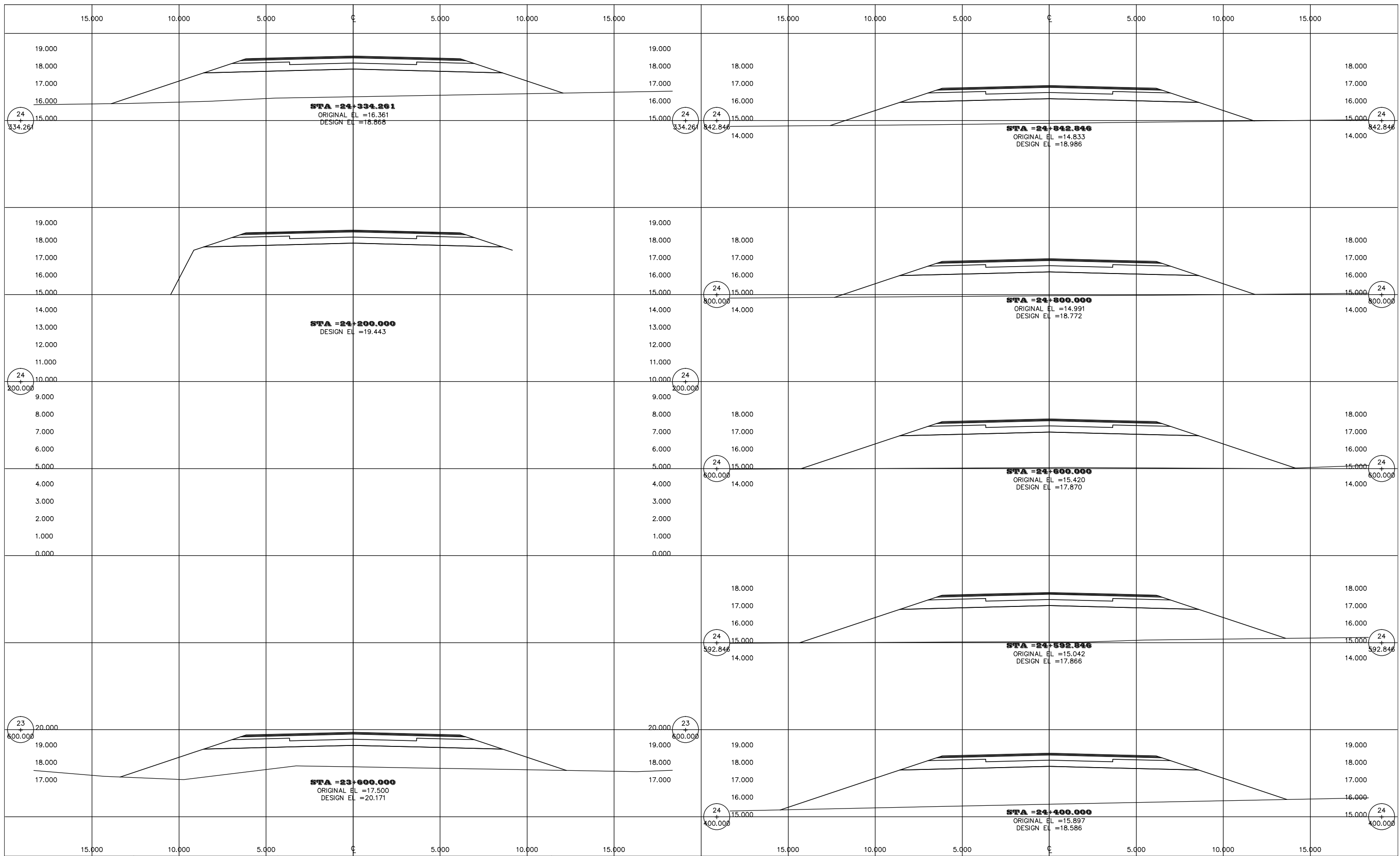
**Notes**

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (17/45)</b>
Scale :	1:200
Sheet	47/82



Designed by: \_\_\_\_\_  
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 Signature: \_\_\_\_\_


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Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

Notes

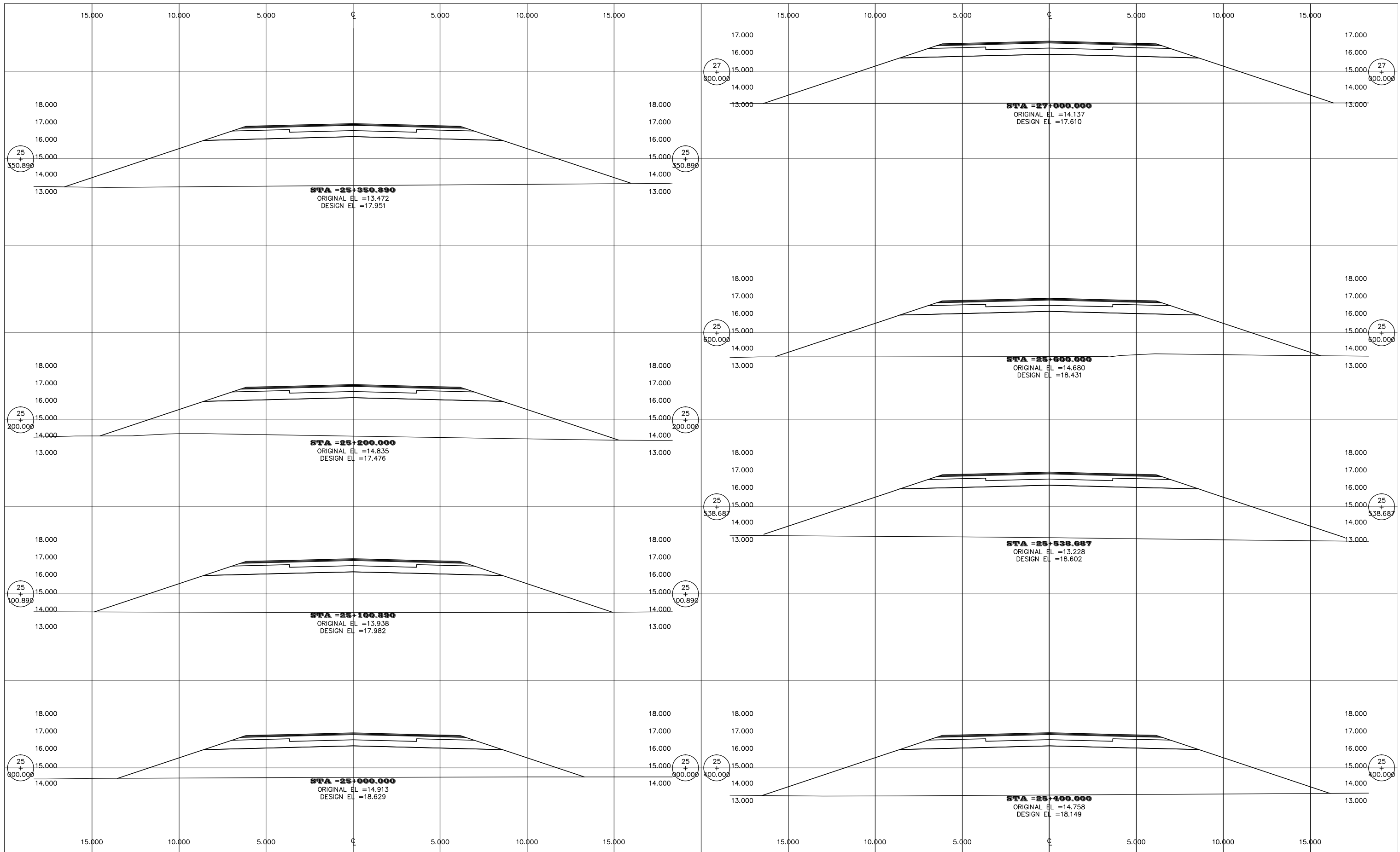
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (18/45)**

Scale : 1:200      Sheet 48/82




Designed by:	Signature:
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Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

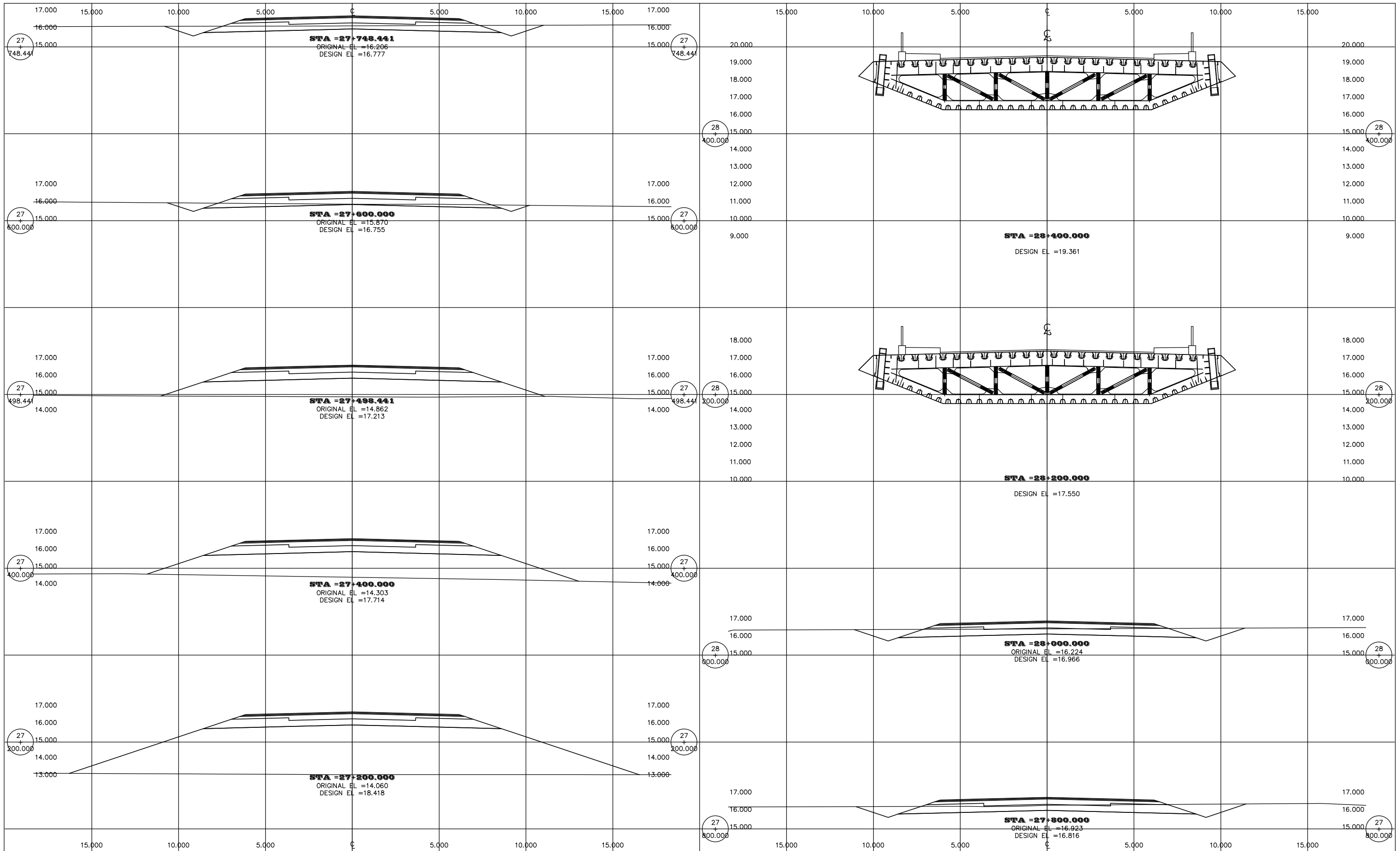
Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (19/45)</b>	
	Scale : 1:200	Sheet 49/82




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Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

**Notes**

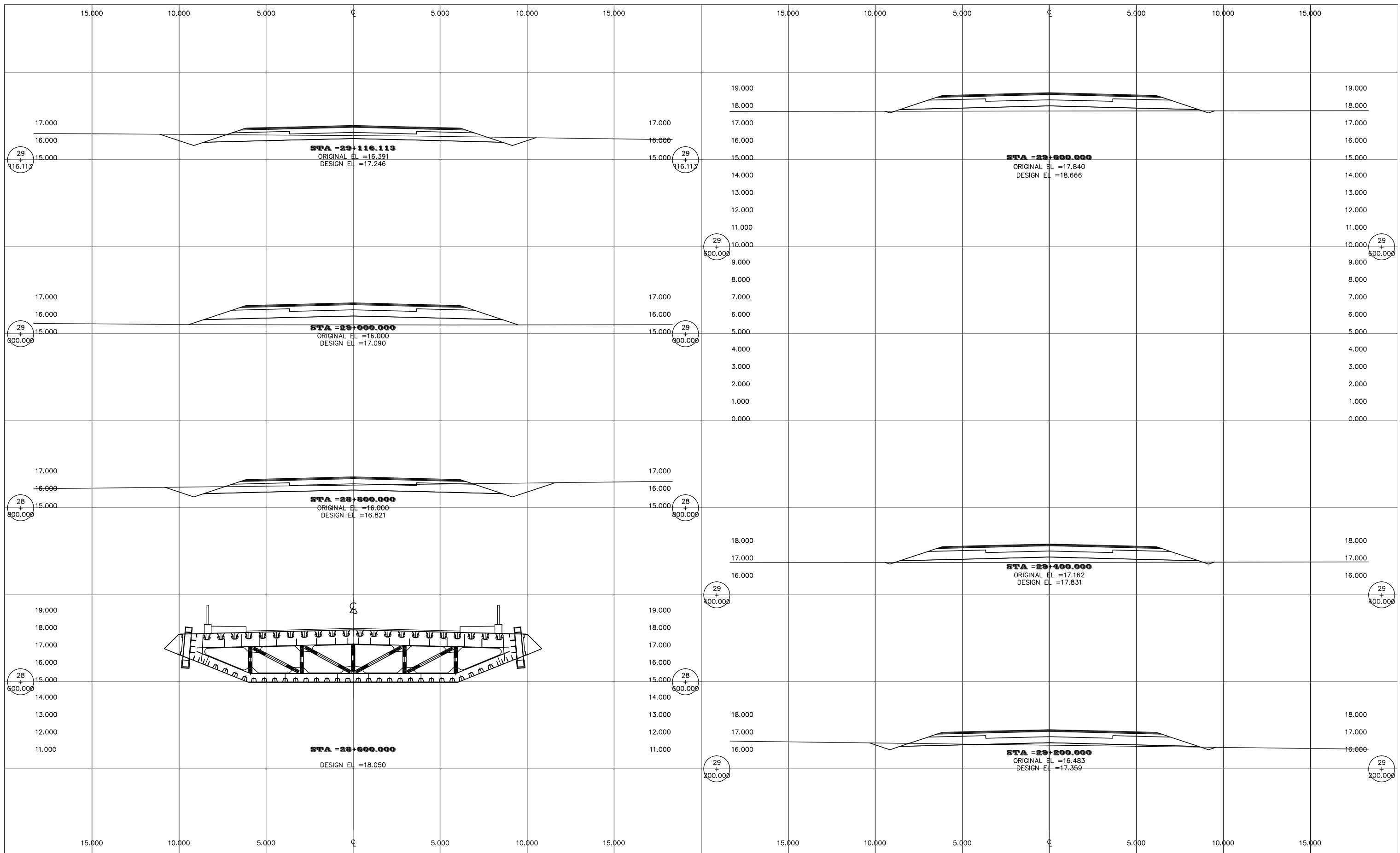
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (20/45)**

Scale : 1:200      Sheet 50/82



Designed by: \_\_\_\_\_  
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 Signature: \_\_\_\_\_


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Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes

1. All dimensions are in metre.

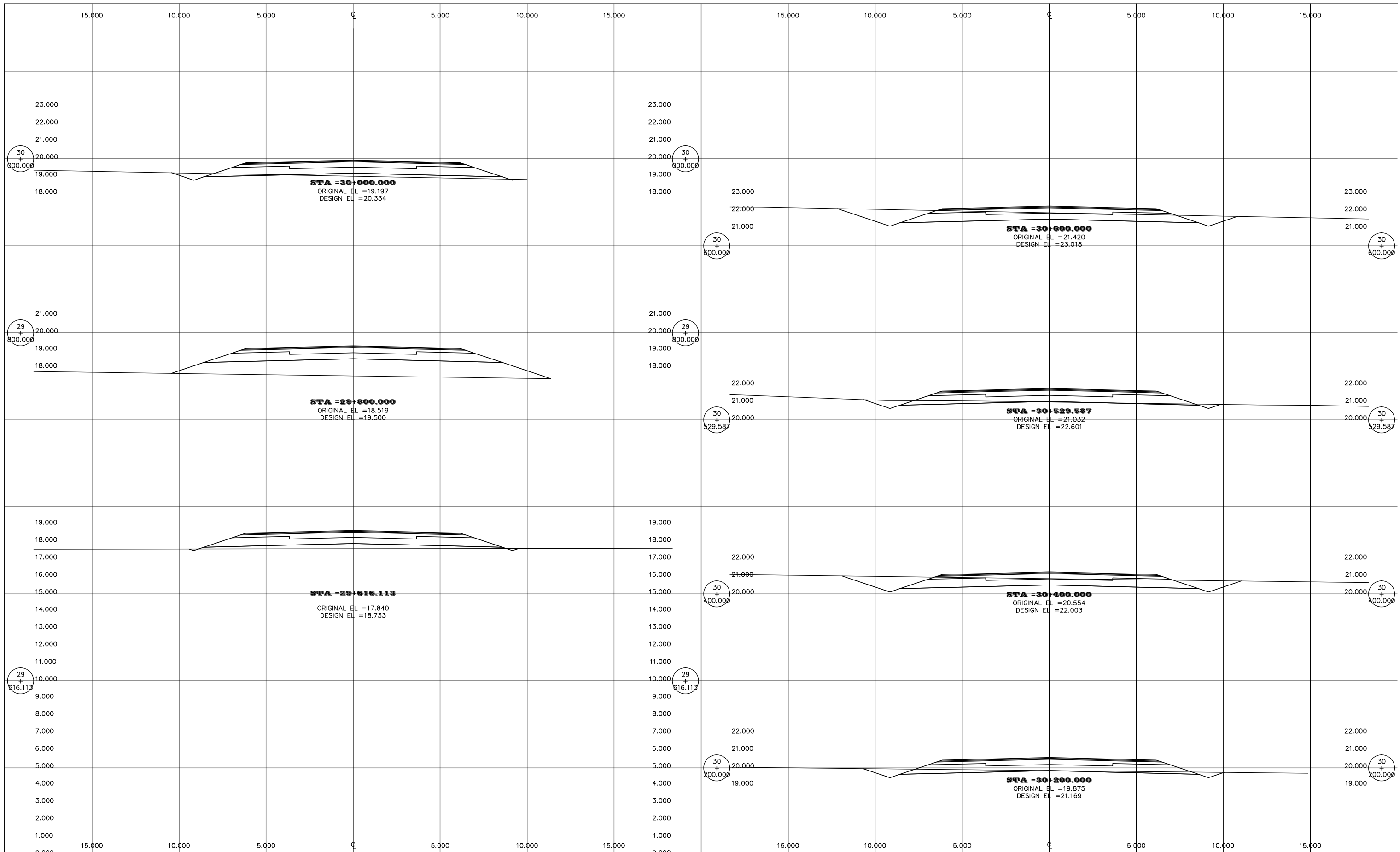
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (21/45)**

Scale : 1:200      Sheet 51/82



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Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes

1. All dimensions are in metre.

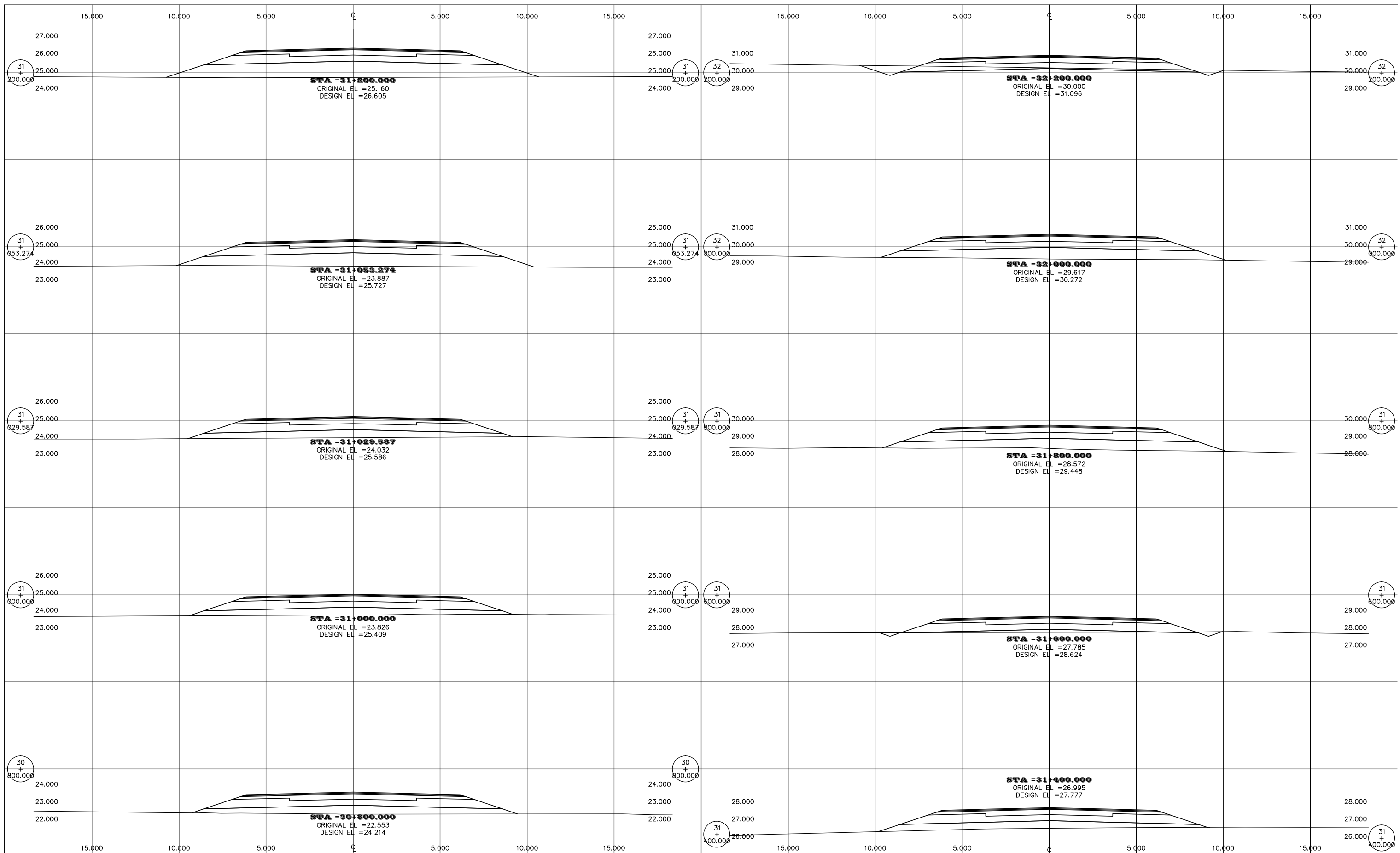
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (22/45)**

Scale : 1:200      Sheet 52/82






Designed by:	Signature:	<u>Revision</u>			
Checked by:	Signature:				
Drawn by:	Signature:				
		Rev. no:	Rev. by:	Date:	Sign:
				JAN. 2013	

Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**

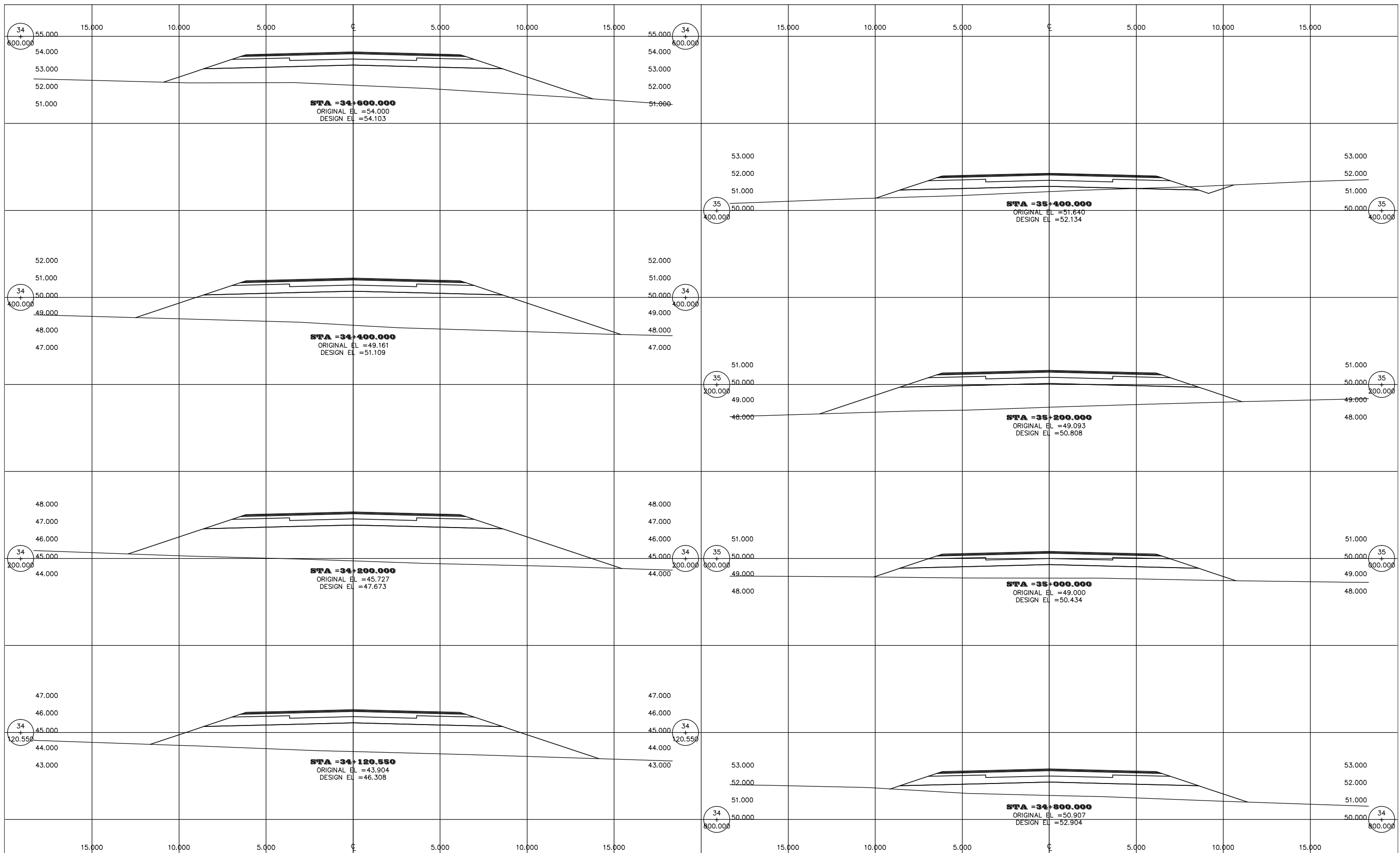


Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (23/45)**

Scale : 1:200      Sheet 53/82






Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

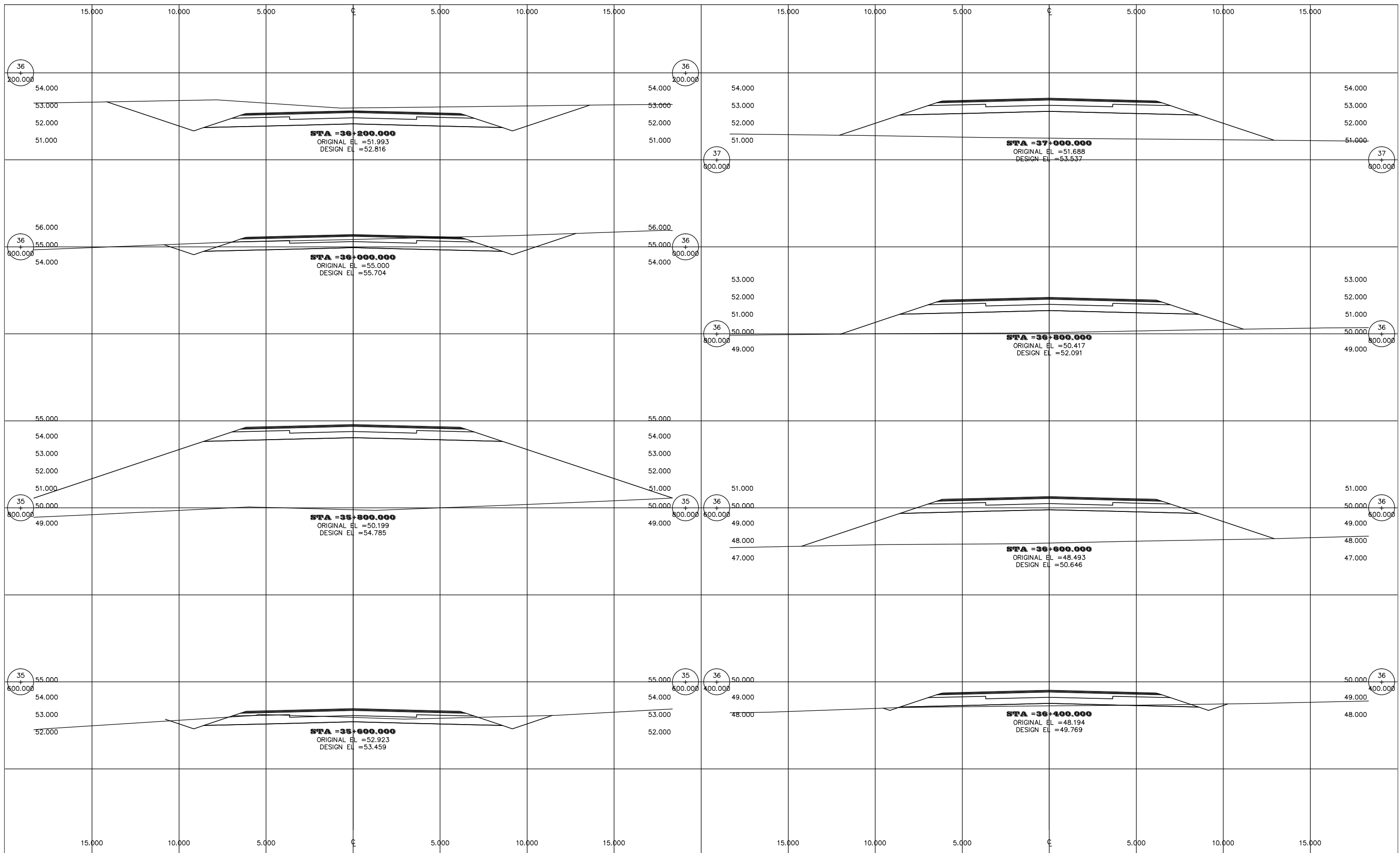
Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (25/45)</b>	
	Scale : 1:200	Sheet 55/82




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

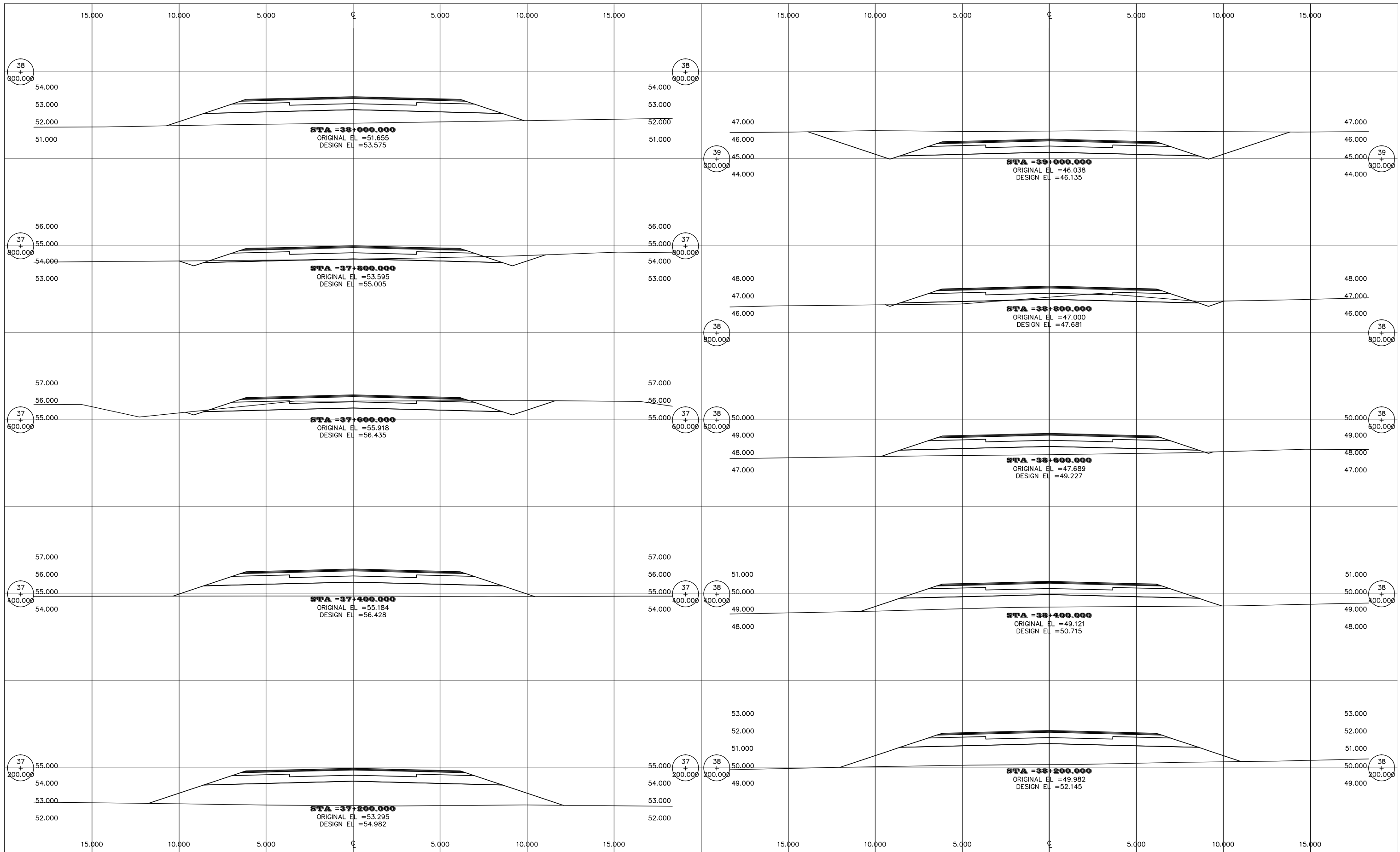
Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (26/45)</b>
Scale :	1:200
Sheet	56/82




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Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

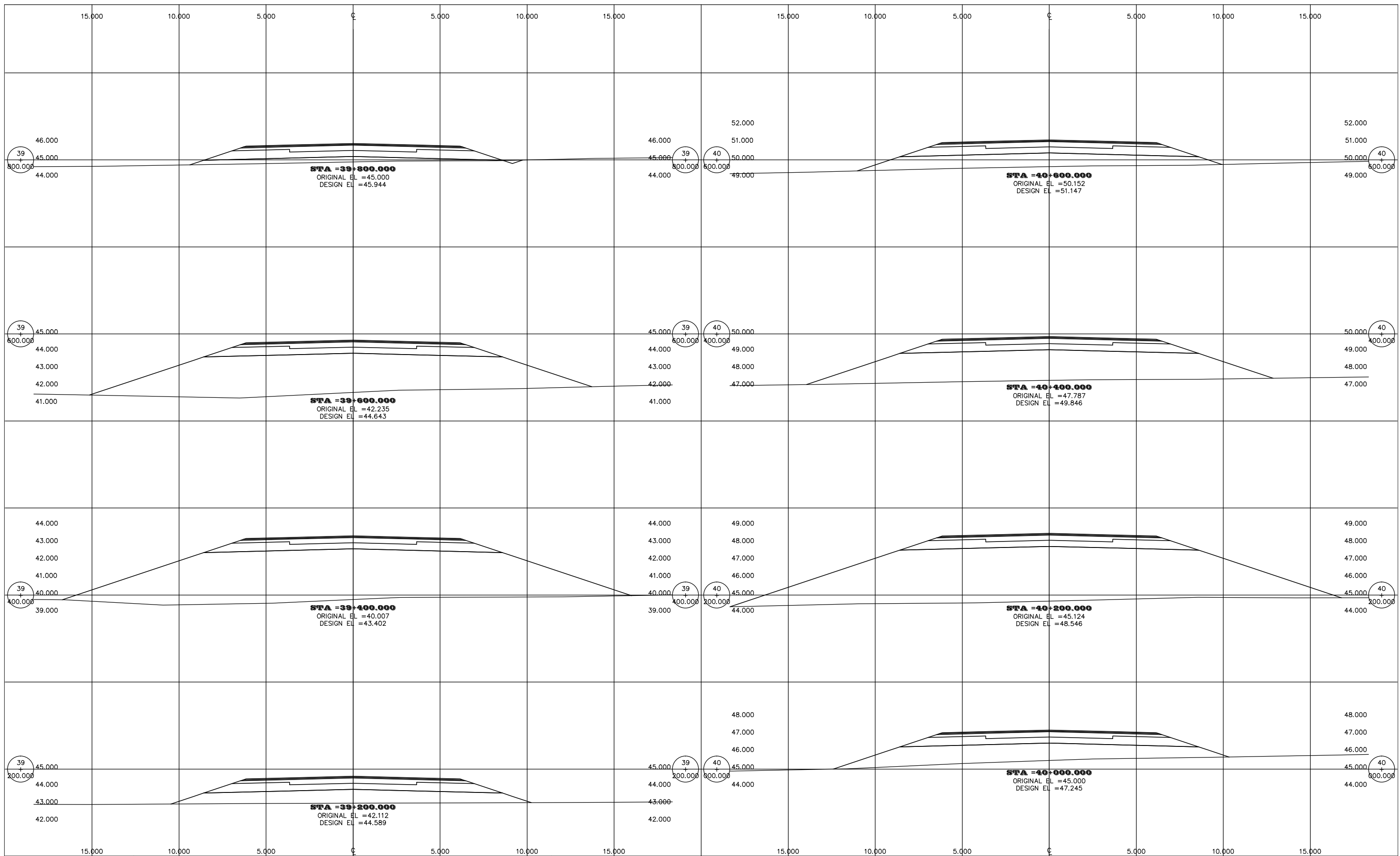
**Notes**

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (27/45)</b>	
	Scale : 1:200	Sheet 57/82




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Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes

1. All dimensions are in metre.

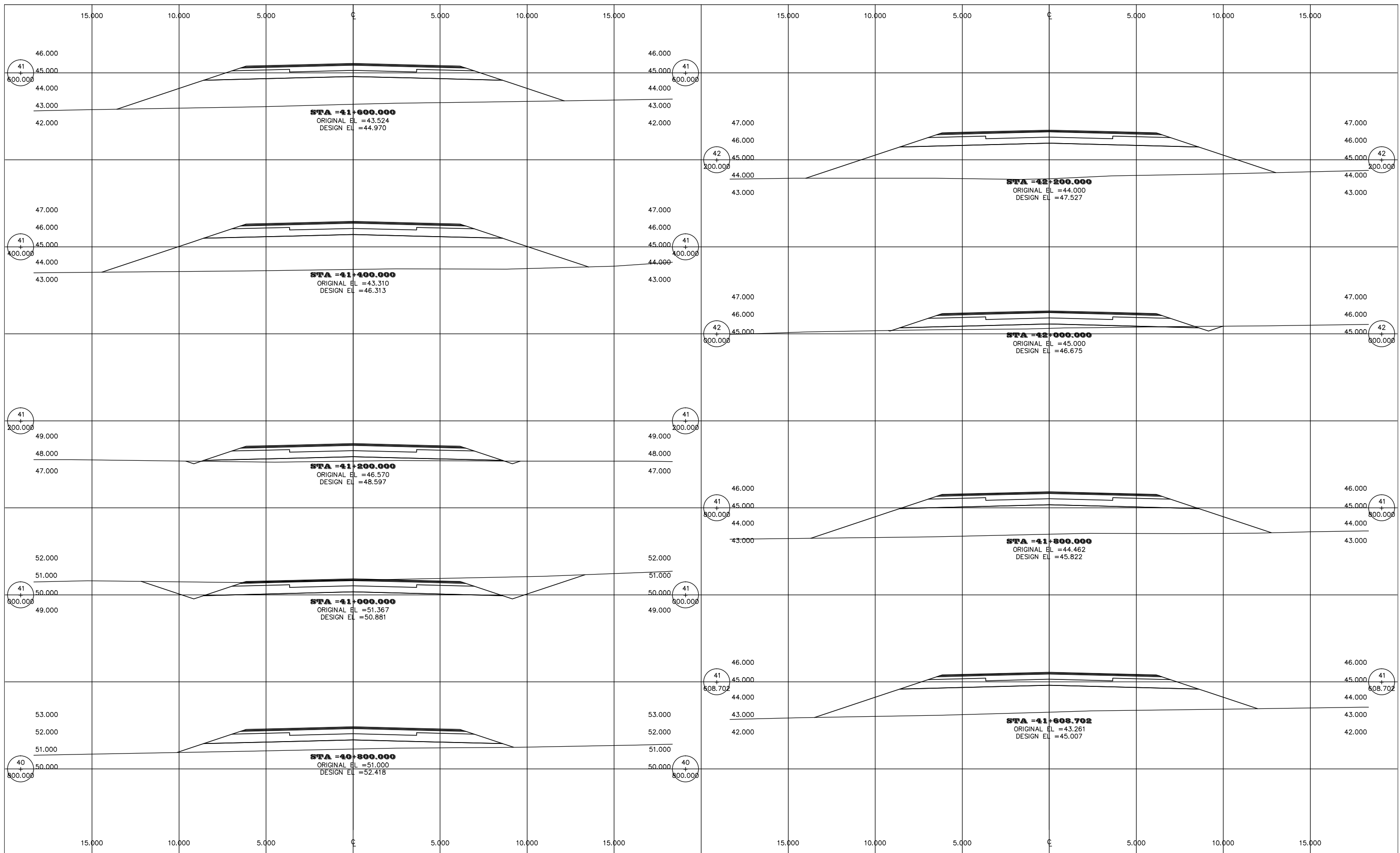
REPUBLIC OF GHANA  
MINISTRY OF ROADS AND HIGHWAYS  
GHANA HIGHWAY AUTHORITY



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (28/45)**

Scale : 1:200      Sheet 58/82




Designed by:	Signature:
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Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

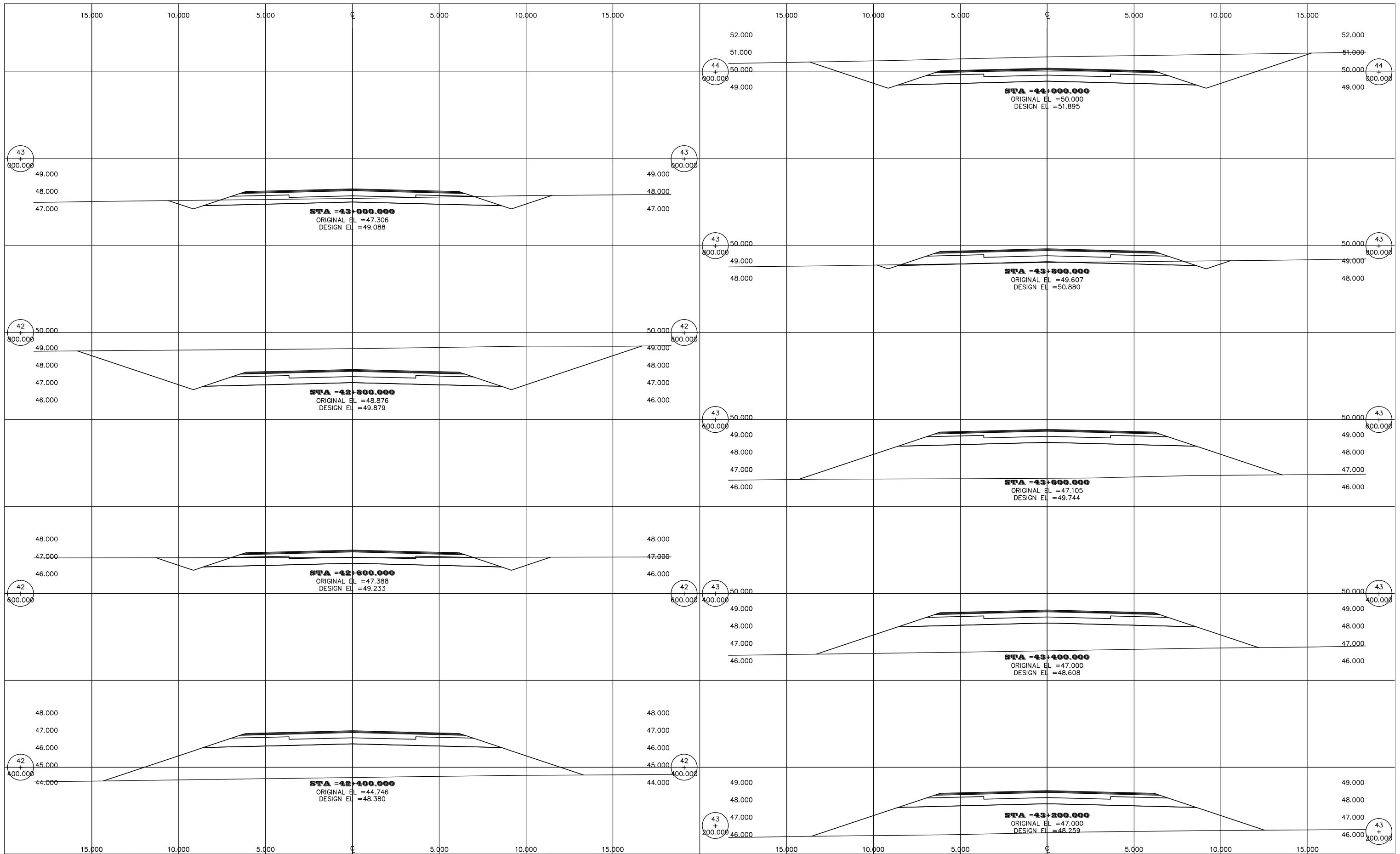
Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (29/45)</b>
Scale :	1:200
Sheet	59/82



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Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**

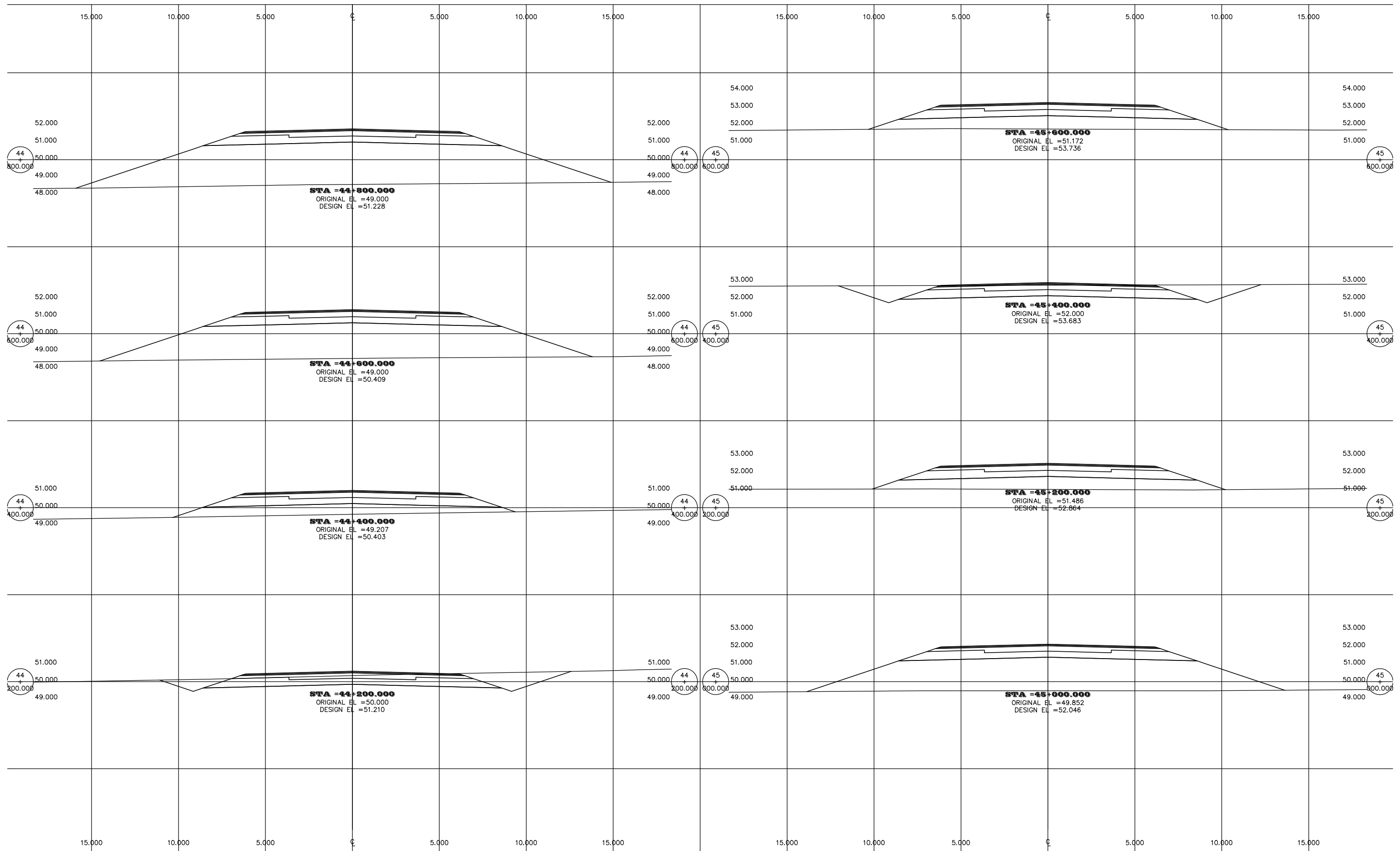



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

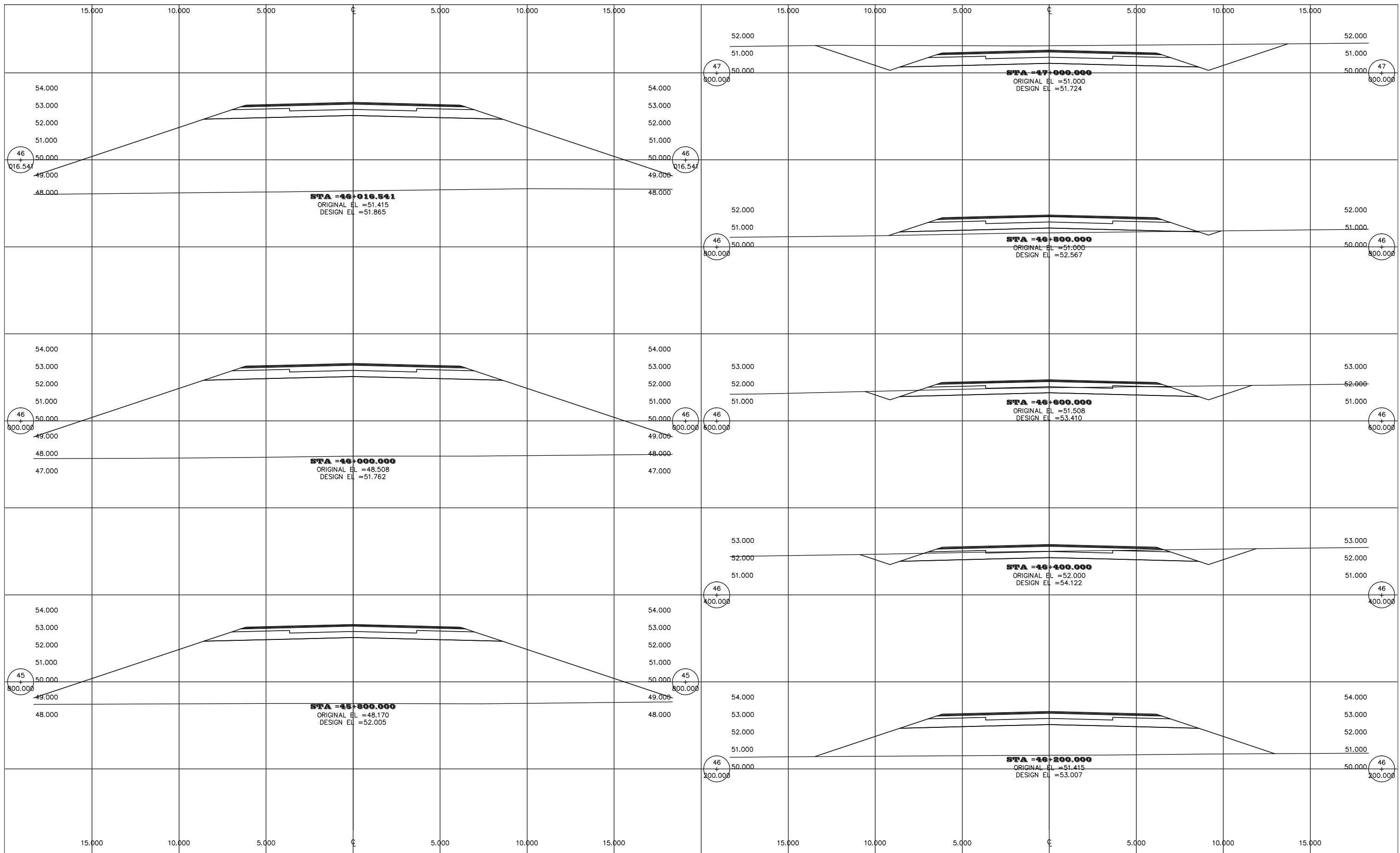
Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (30/45)**

Scale : 1:200      Sheet 60/82





Designed by:	Signature:	<u>Revision</u>				<u>Notes</u> 1. All dimensions are in metre.		<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b> 		Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Checked by:	Signature:									Description: <b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (31/45)</b>	
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:	JAN. 2013					




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

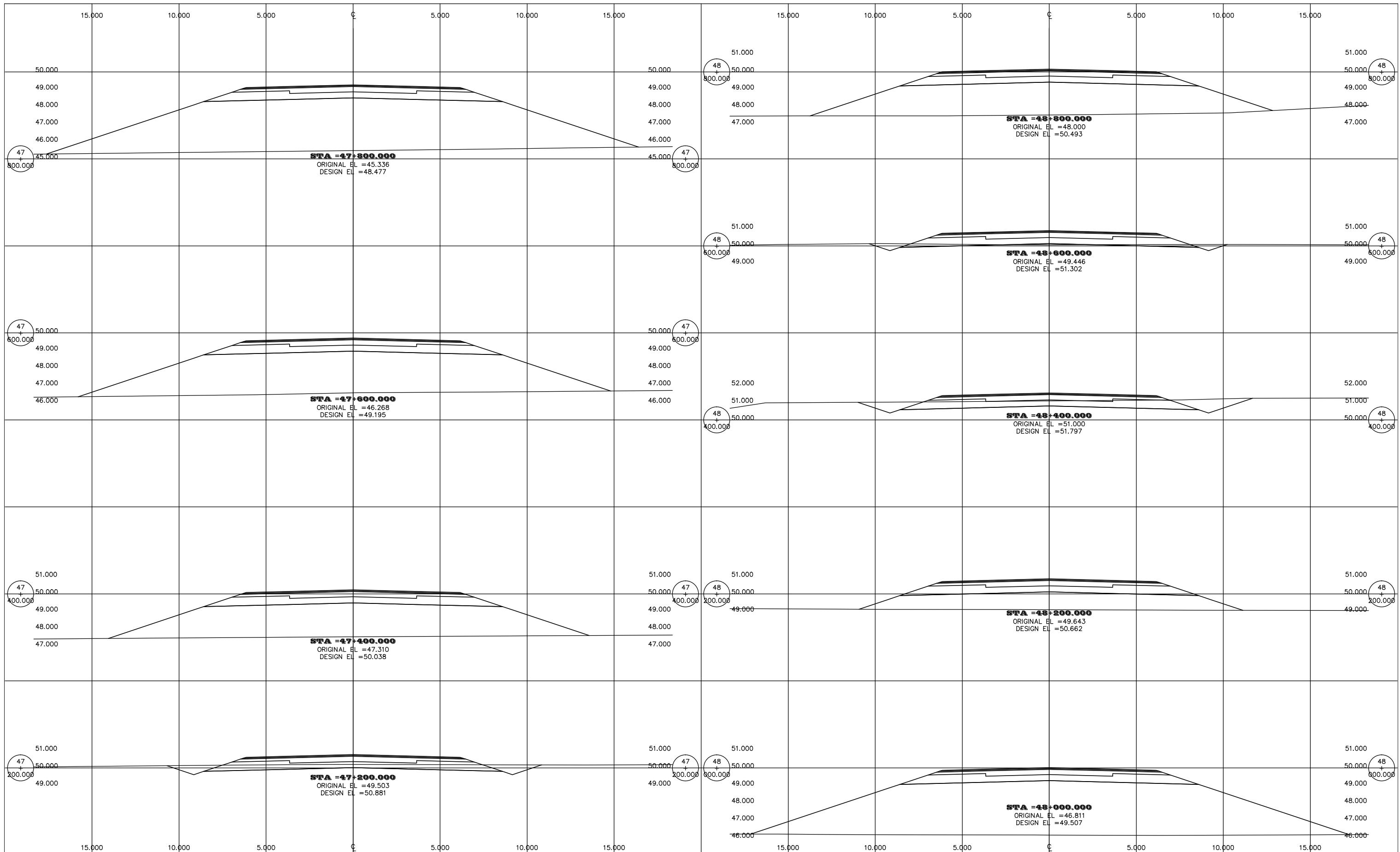
Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (32/45)</b>
Scale :	1:200
Sheet	62/82




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Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

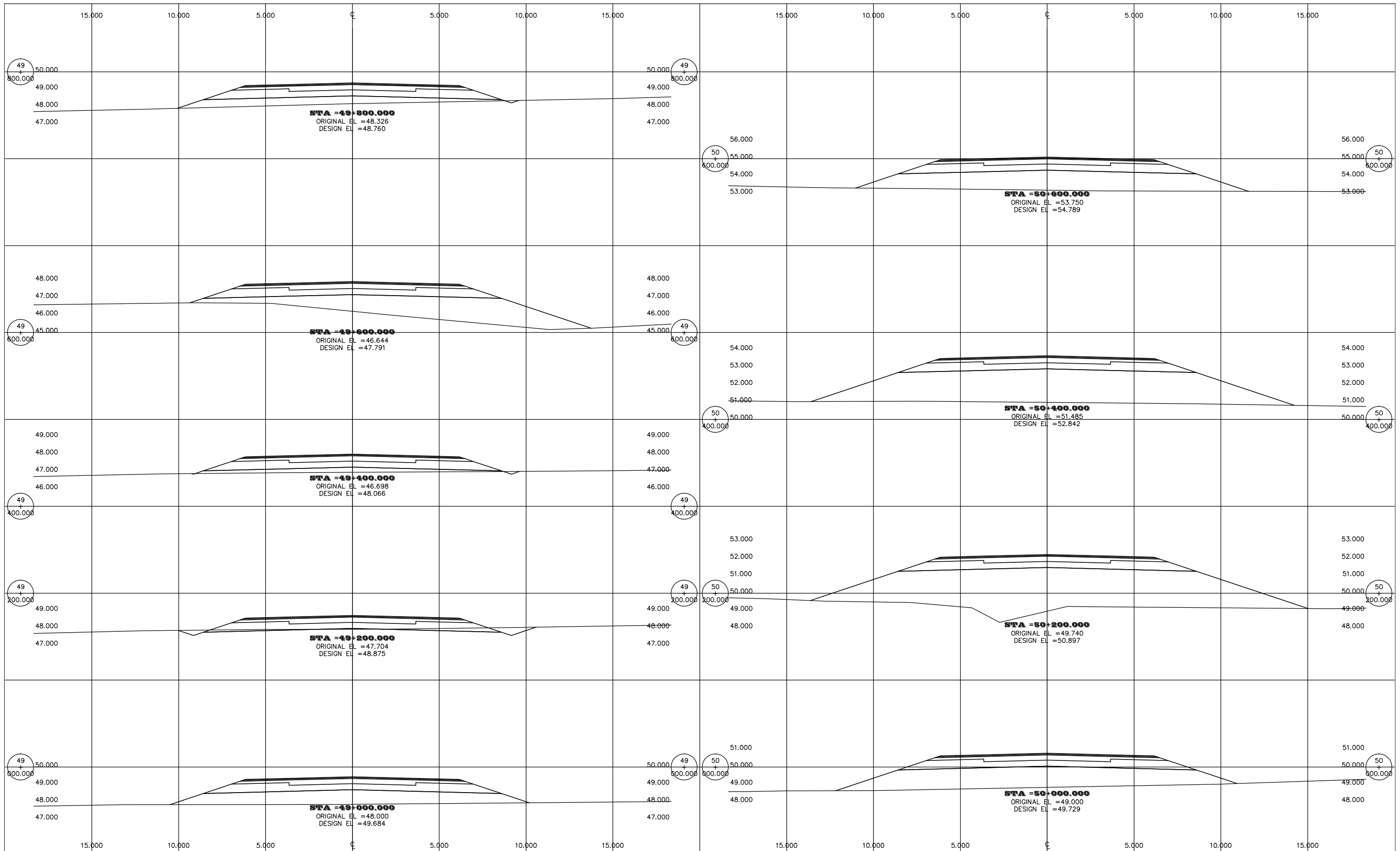
Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (33/45)</b>
Scale :	1:200
Sheet	63/82



Designed by: \_\_\_\_\_  
Checked by: \_\_\_\_\_  
Drawn by: \_\_\_\_\_

Signature: \_\_\_\_\_  
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Signature: \_\_\_\_\_

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

Notes

1. All dimensions are in metre.

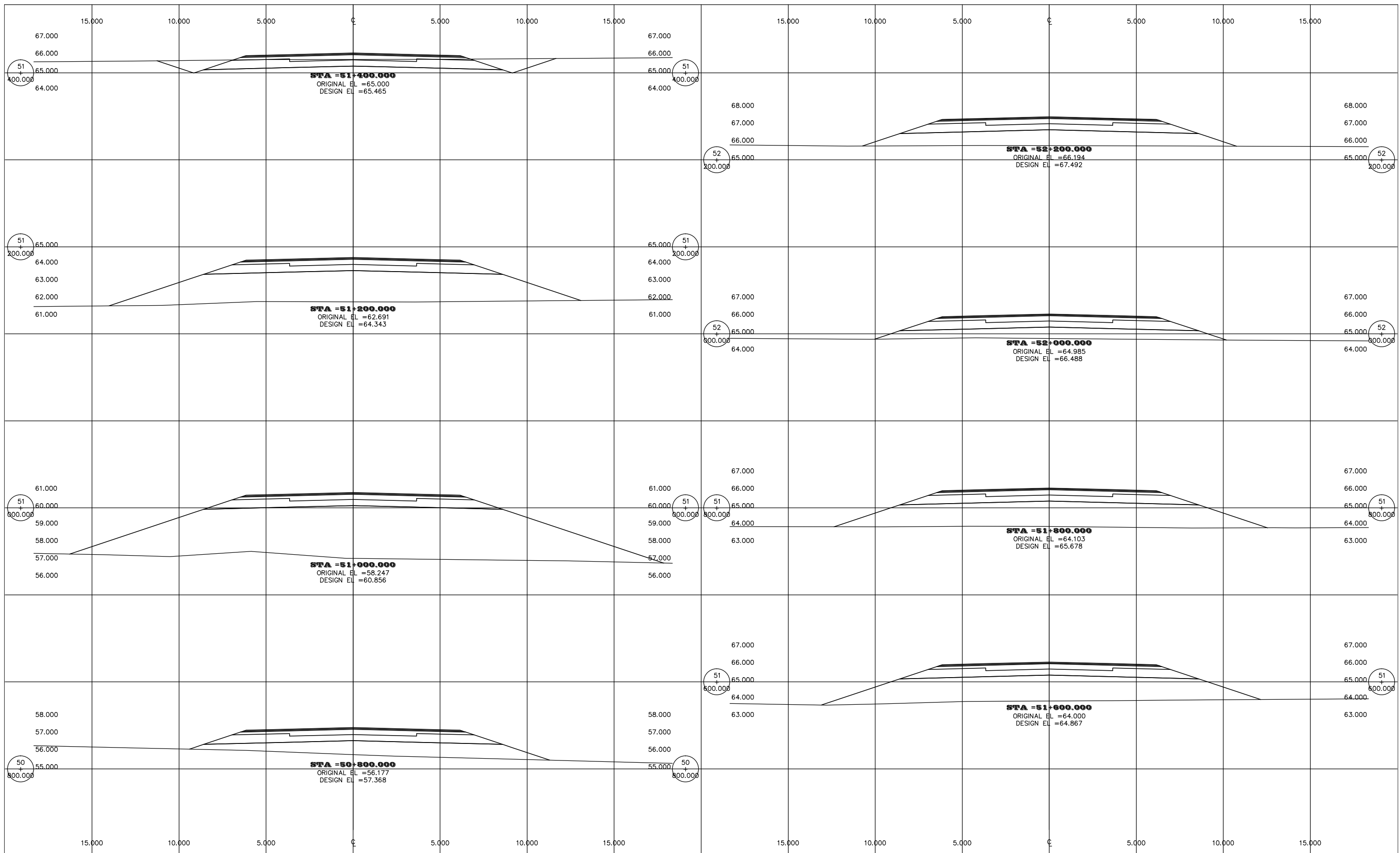
REPUBLIC OF GHANA  
MINISTRY OF ROADS AND HIGHWAYS  
GHANA HIGHWAY AUTHORITY

Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (34/45)**

Scale : 1:200

Sheet 64/82




Designed by: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Checked by: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Drawn by: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Revision  
 1. All dimensions are in metre.

Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

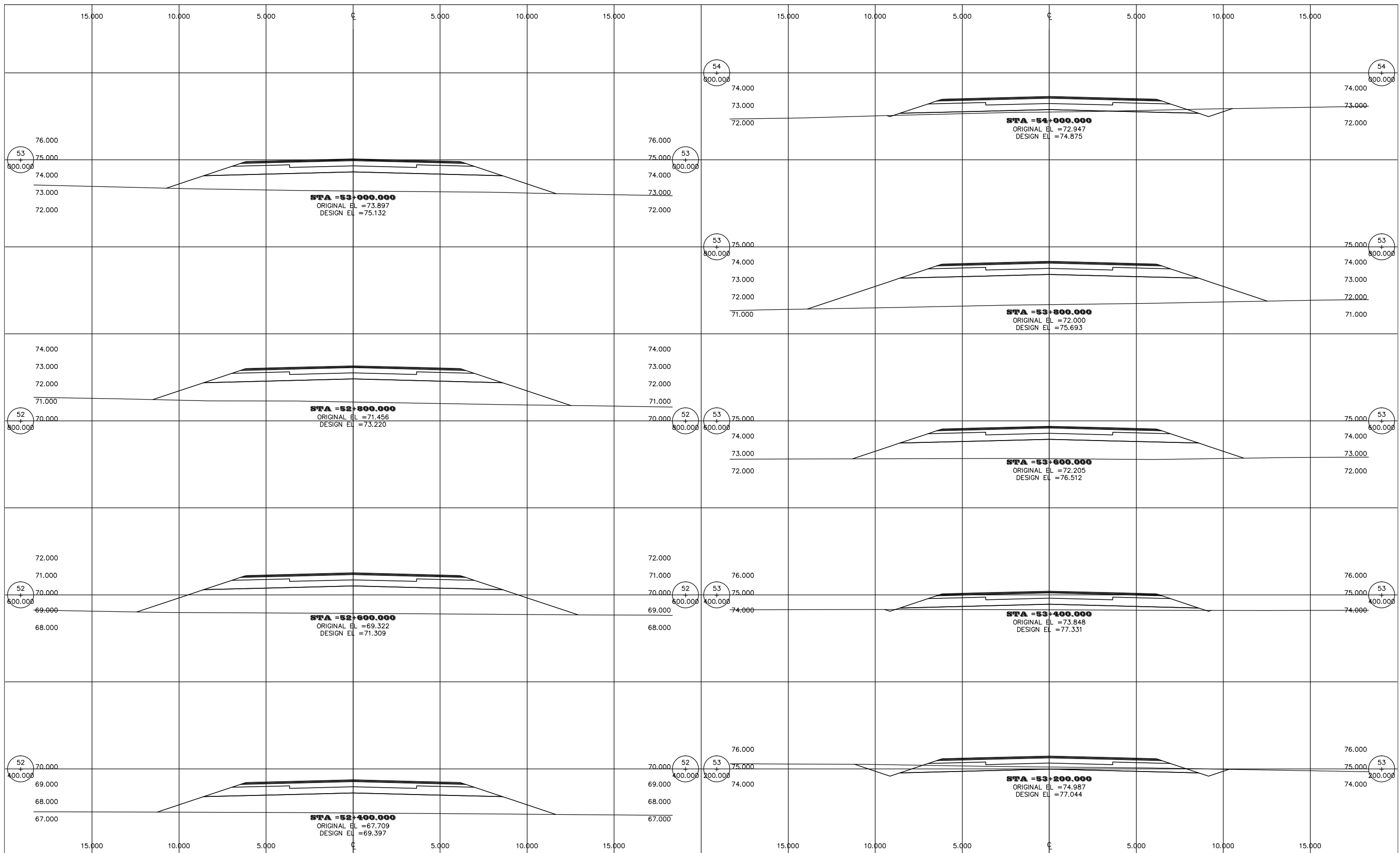
Notes  
 1. All dimensions are in metre.

REPUBLIC OF GHANA  
 MINISTRY OF ROADS AND HIGHWAYS  
 GHANA HIGHWAY AUTHORITY



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (35/45)**

Scale : 1:200      Sheet 65/82




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

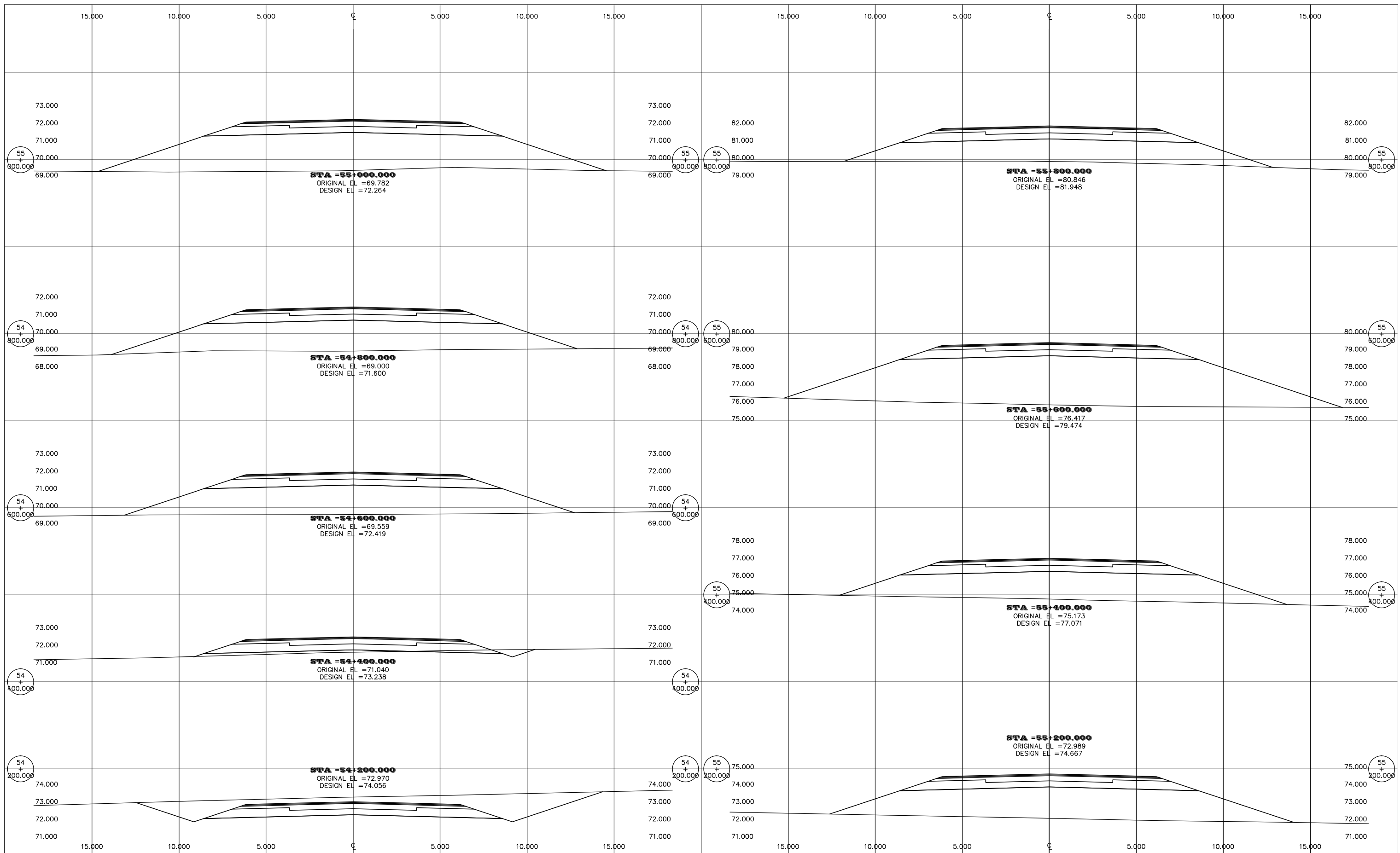
**Notes**

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (36/45)</b>
Scale :	1:200
Sheet	66/82




Designed by:  
Checked by:  
Drawn by:

Signature:  
Signature:  
Signature:

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

Notes  
1. All dimensions are in metre.

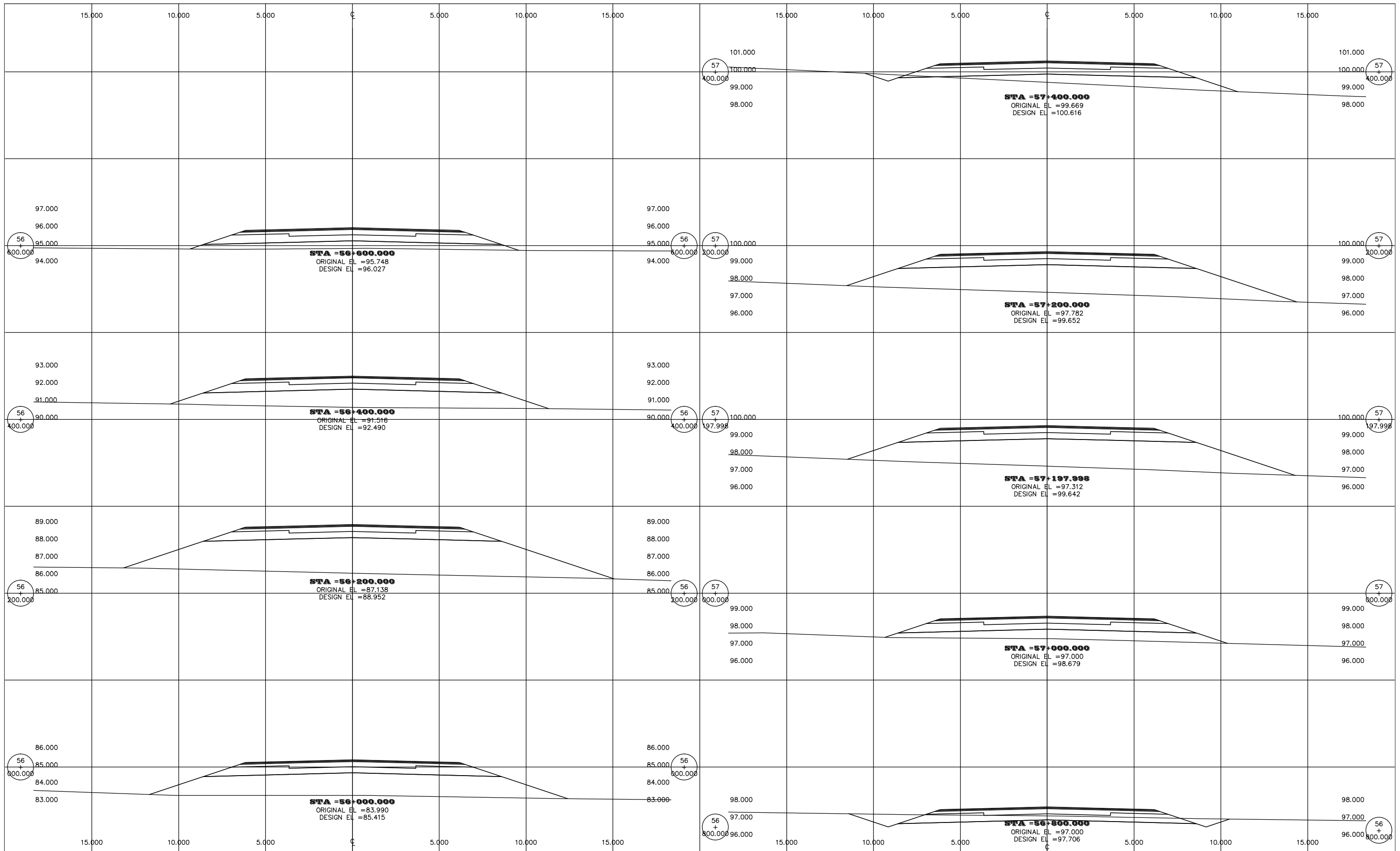
REPUBLIC OF GHANA  
MINISTRY OF ROADS AND HIGHWAYS  
GHANA HIGHWAY AUTHORITY



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (37/45)**

Scale : 1:200      Sheet 67/82




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

**Notes**

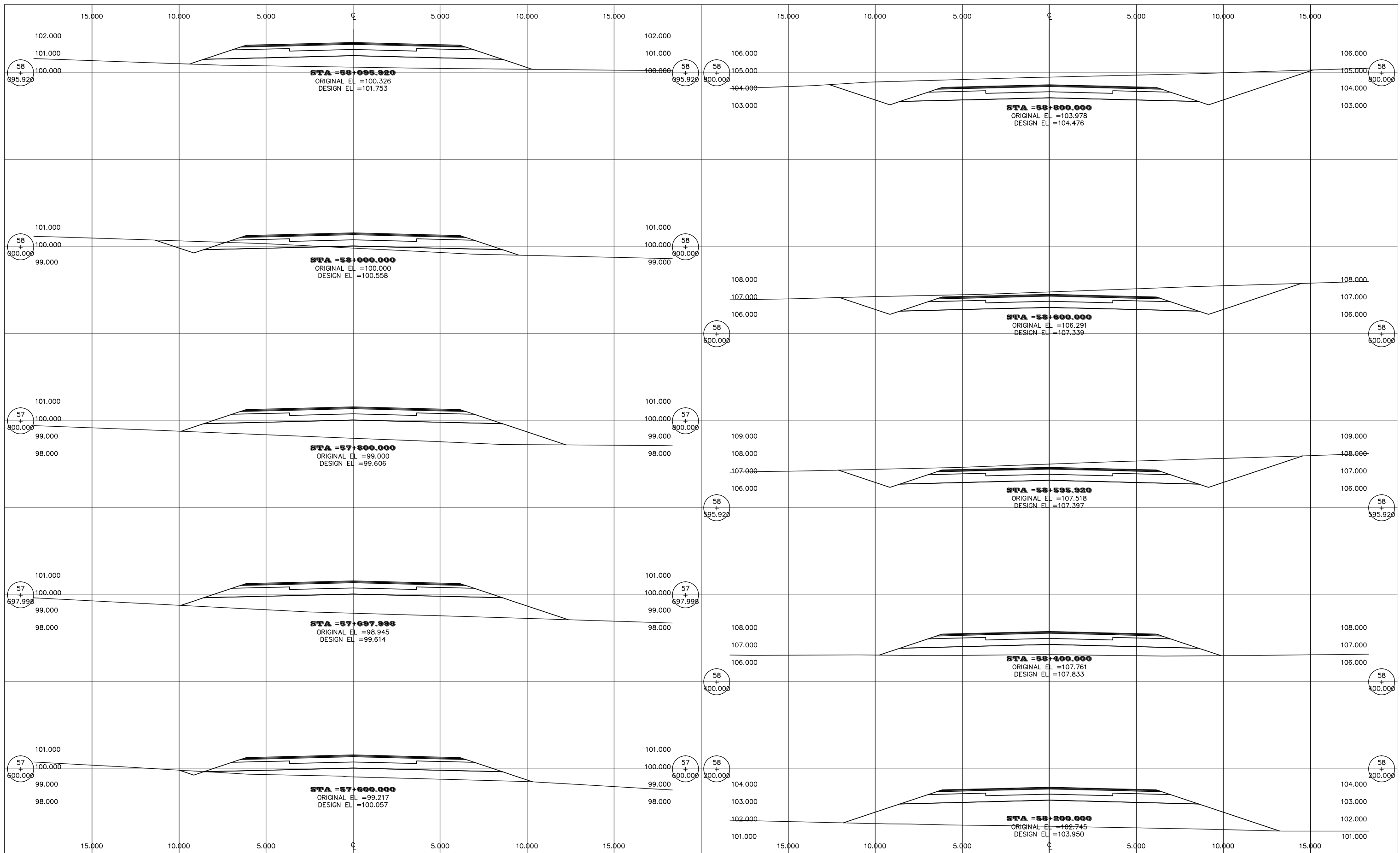
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (38/45)</b>
Scale:	<b>1:200</b>
Sheet:	<b>68/82</b>






Designed by:	Signature:	<u>Revision</u>			
Checked by:	Signature:				
Drawn by:	Signature:				
				JAN. 2013	

Notes

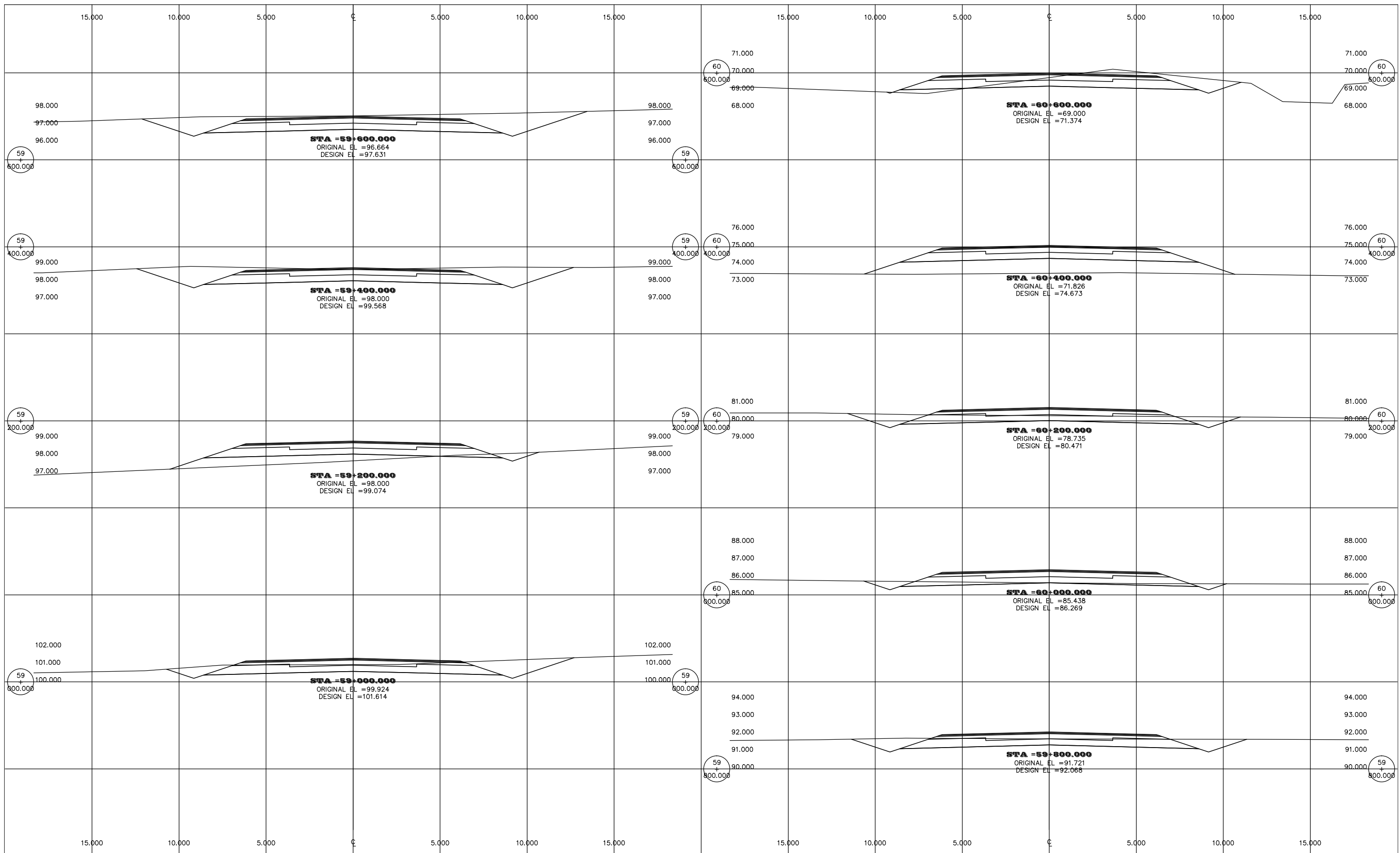
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (39/45)**

Scale : 1:200      Sheet 69/82



Designed by: \_\_\_\_\_  
Checked by: \_\_\_\_\_  
Drawn by: \_\_\_\_\_


Signature: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Signature: \_\_\_\_\_

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes

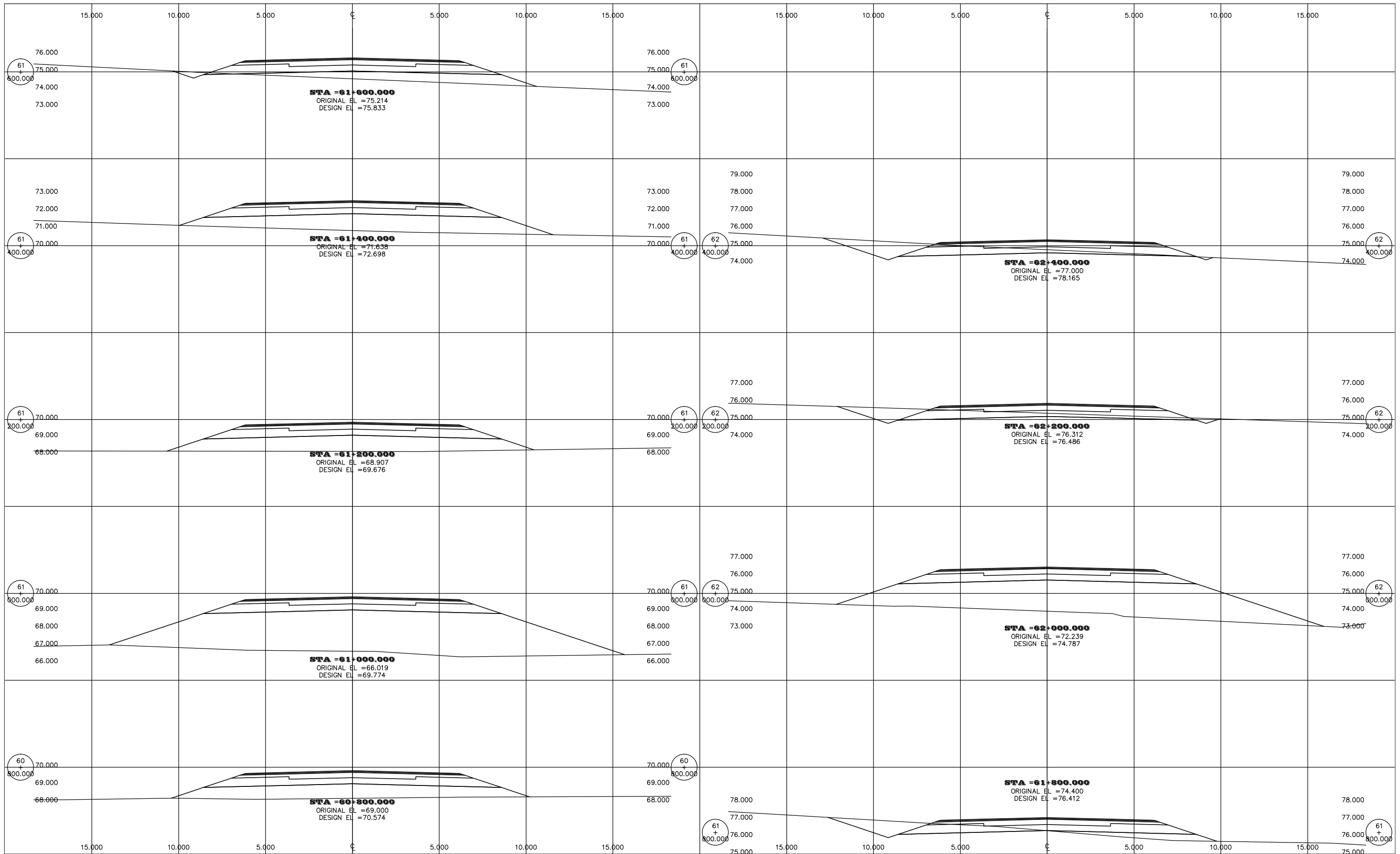
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (40/45)**

Scale : 1:200      Sheet 70/82



Designed by: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Checked by: \_\_\_\_\_  
 Signature: \_\_\_\_\_


Drawn by: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		JAN. 2013		

Notes

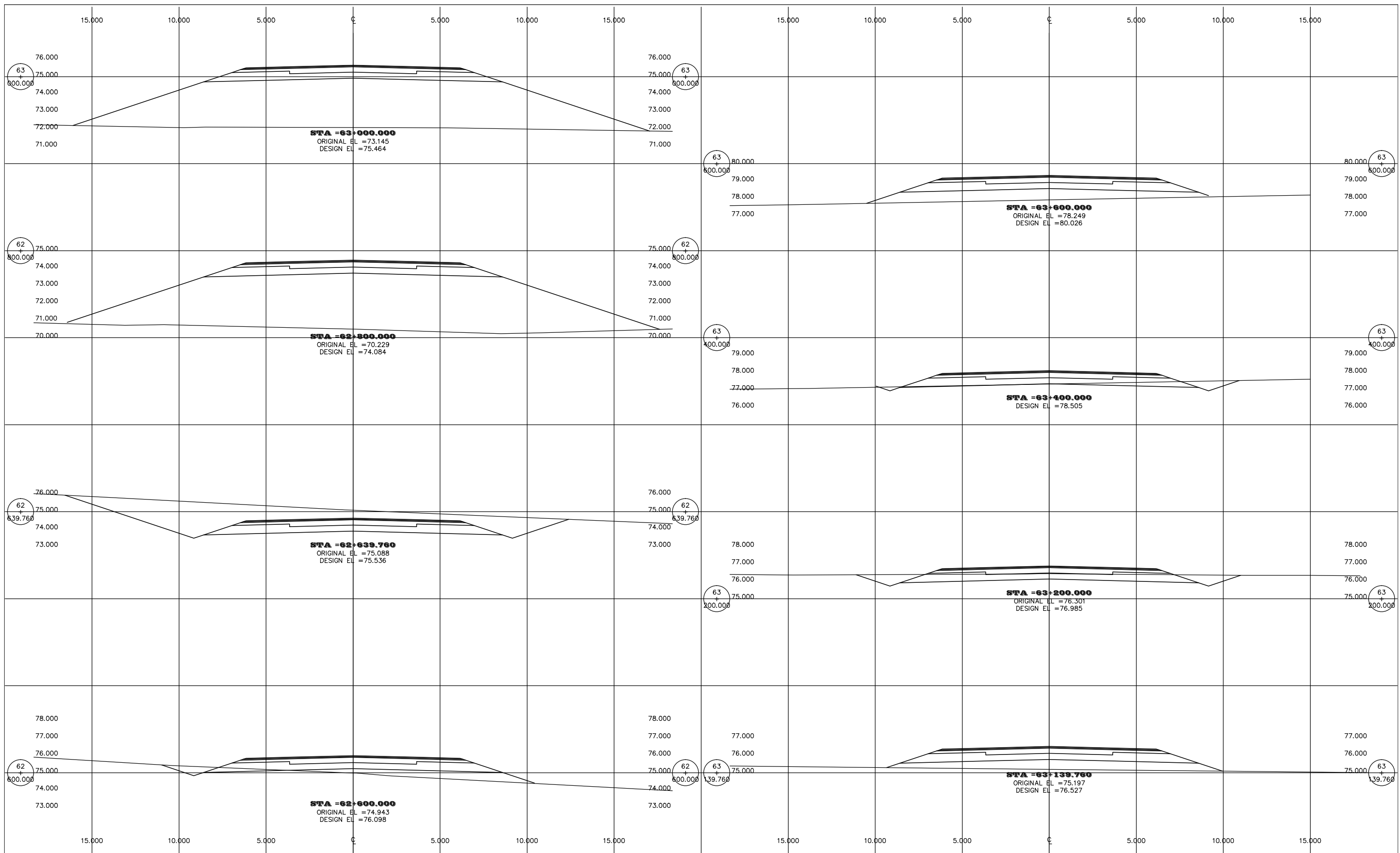
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (41/45)**

Scale : 1:200      Sheet 71/82



Designed by: \_\_\_\_\_  
Checked by: \_\_\_\_\_  
Drawn by: \_\_\_\_\_

Signature: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Signature: \_\_\_\_\_


Revision

Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes

1. All dimensions are in metre.

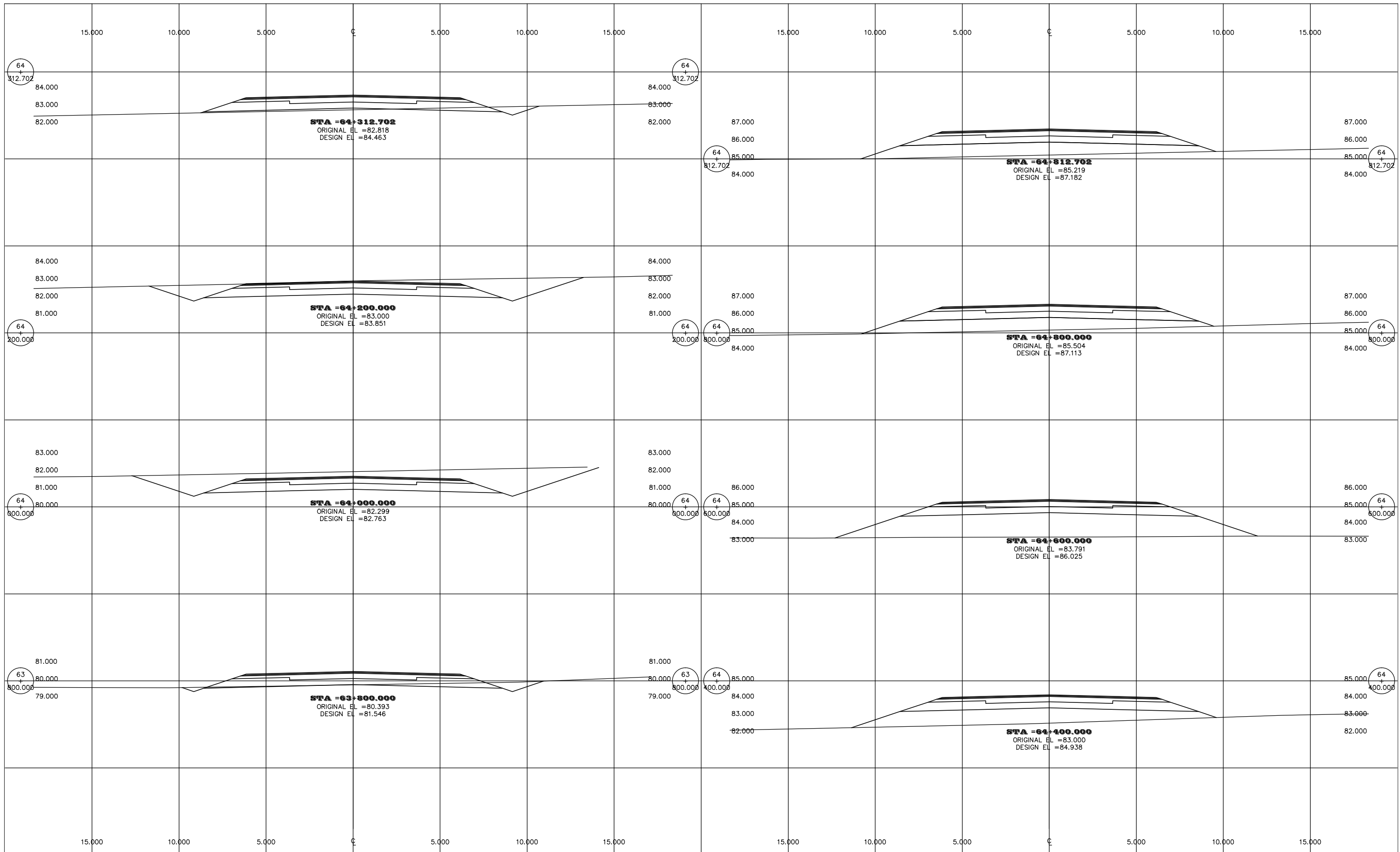
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (42/45)**

Scale : 1:200      Sheet 72/82




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

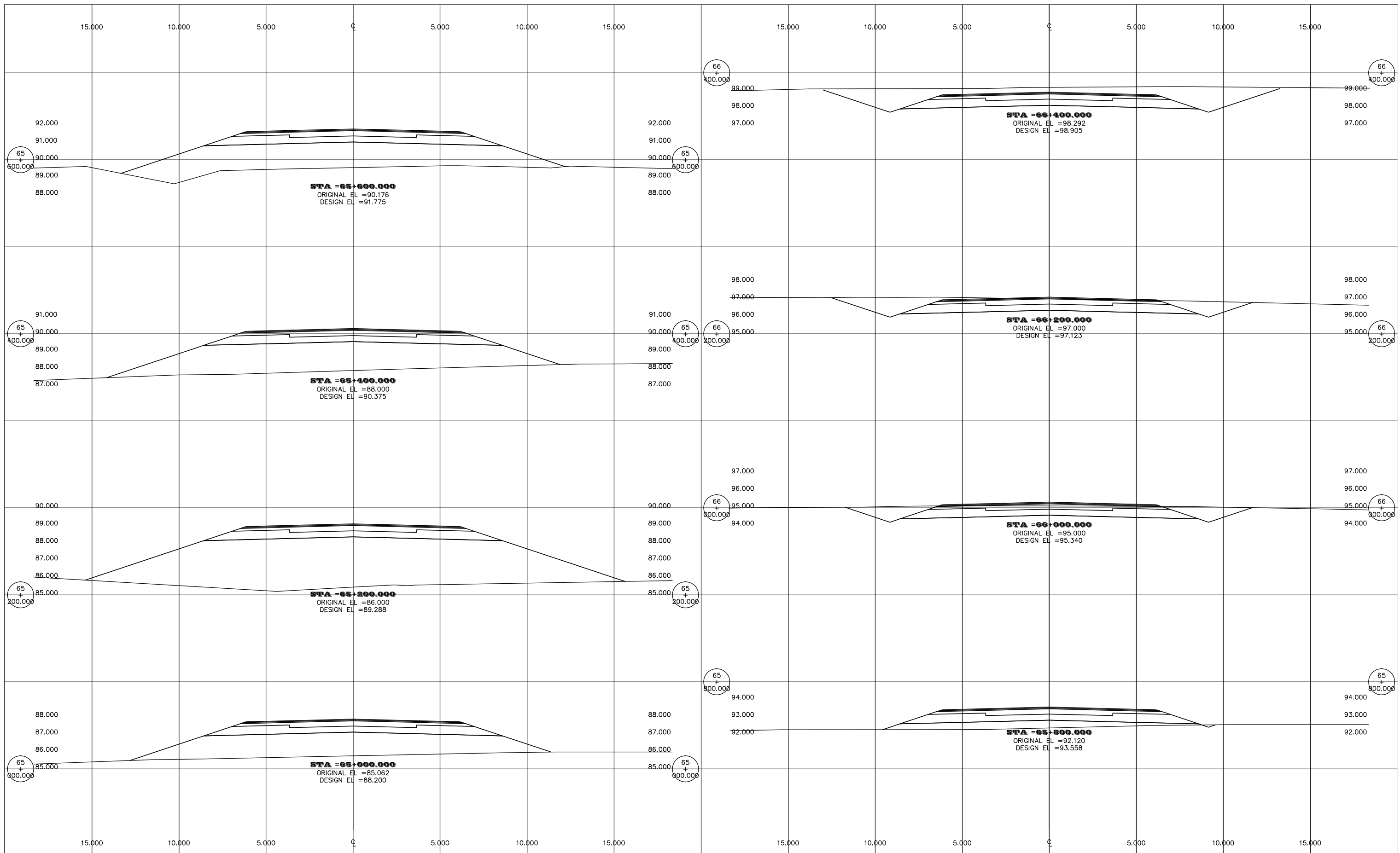
Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (43/45)</b>
Scale :	1:200
Sheet	73/82



Designed by: \_\_\_\_\_  
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Checked by: \_\_\_\_\_  
 Signature: \_\_\_\_\_

Drawn by: \_\_\_\_\_  
 Signature: \_\_\_\_\_


Revision

Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes

1. All dimensions are in metre.

REPUBLIC OF GHANA  
 MINISTRY OF ROADS AND HIGHWAYS  
 GHANA HIGHWAY AUTHORITY

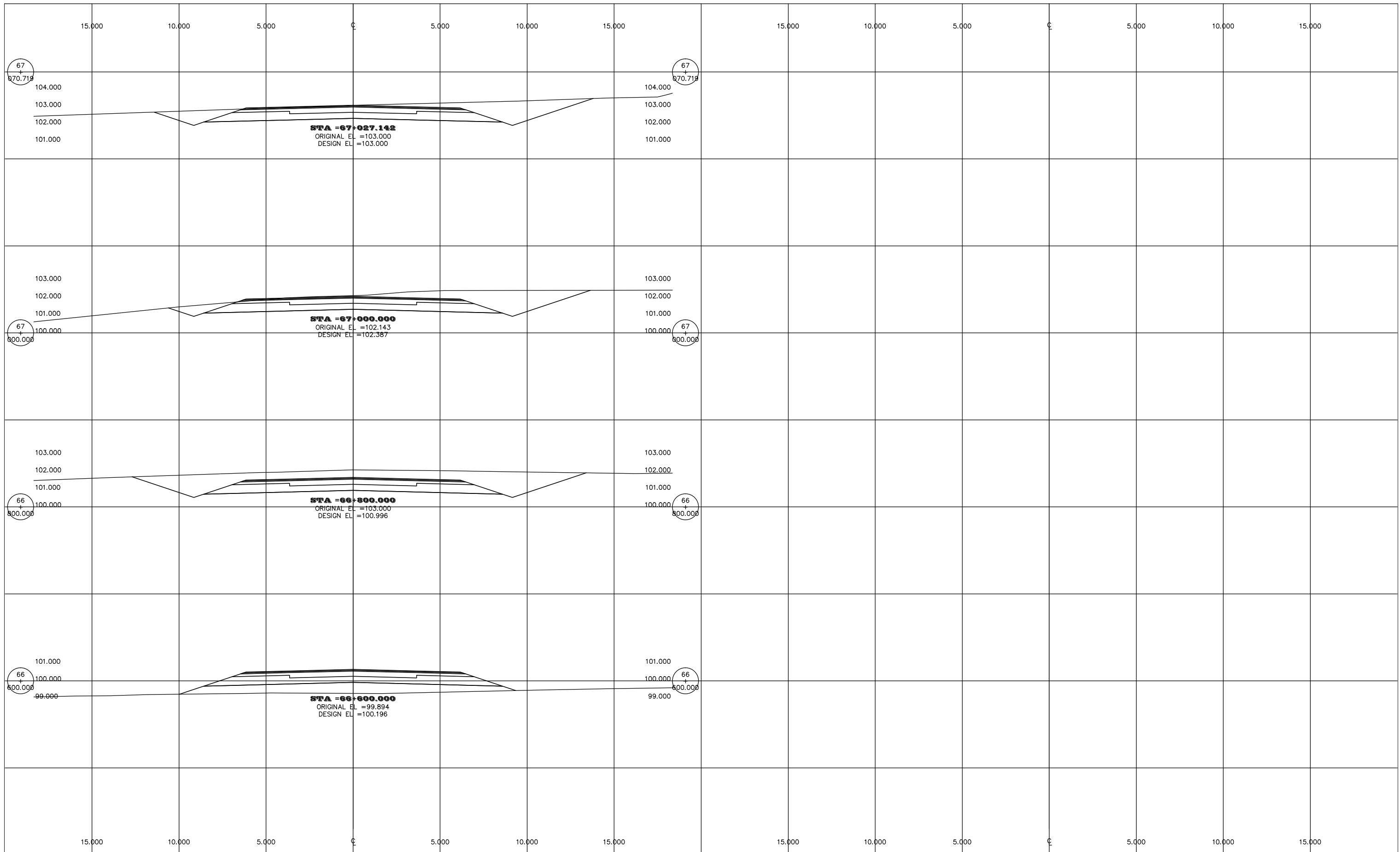


Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (44/45)**

Scale : 1:200

Sheet 74/82




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes

1. All dimensions are in metre.

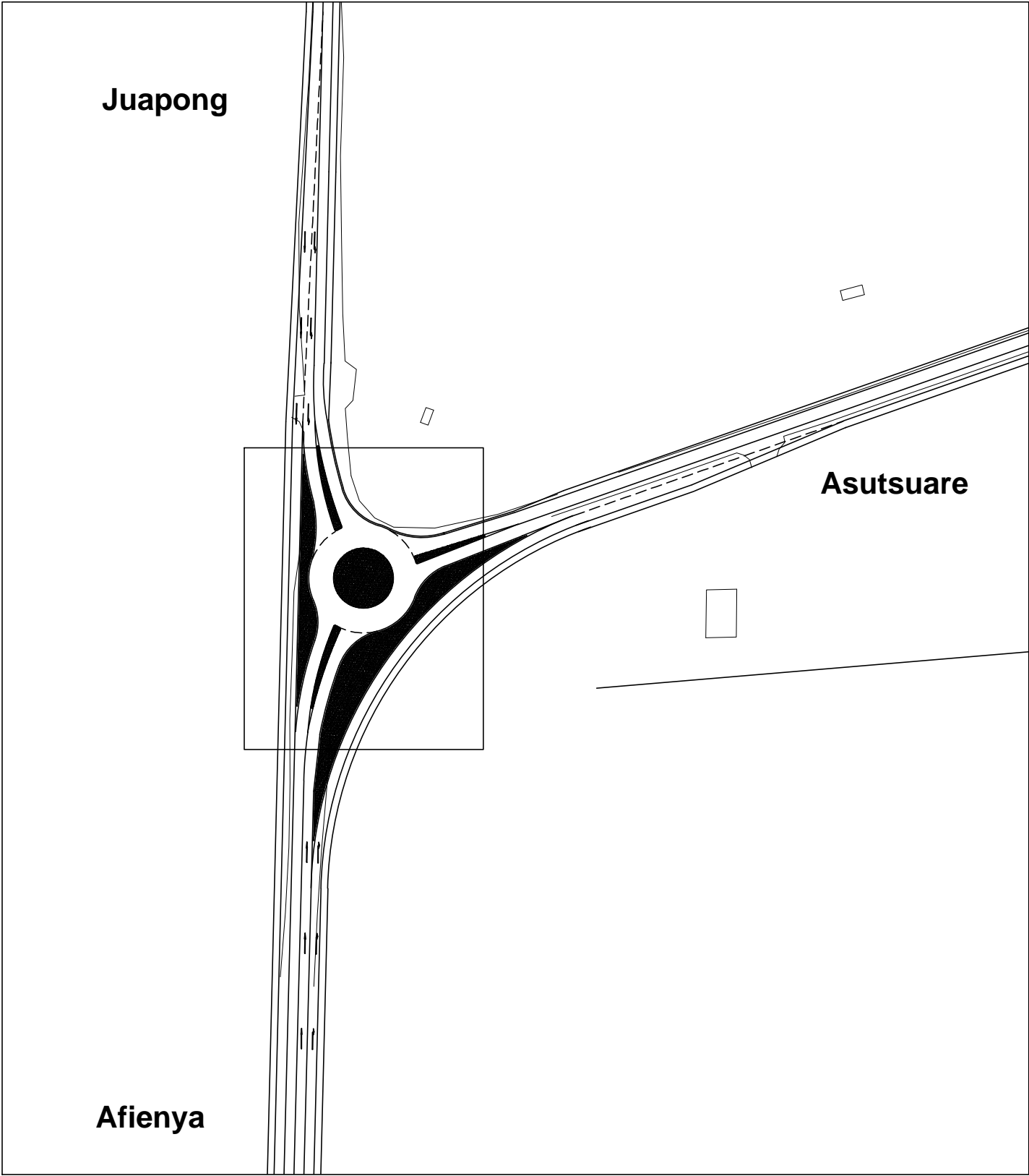
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



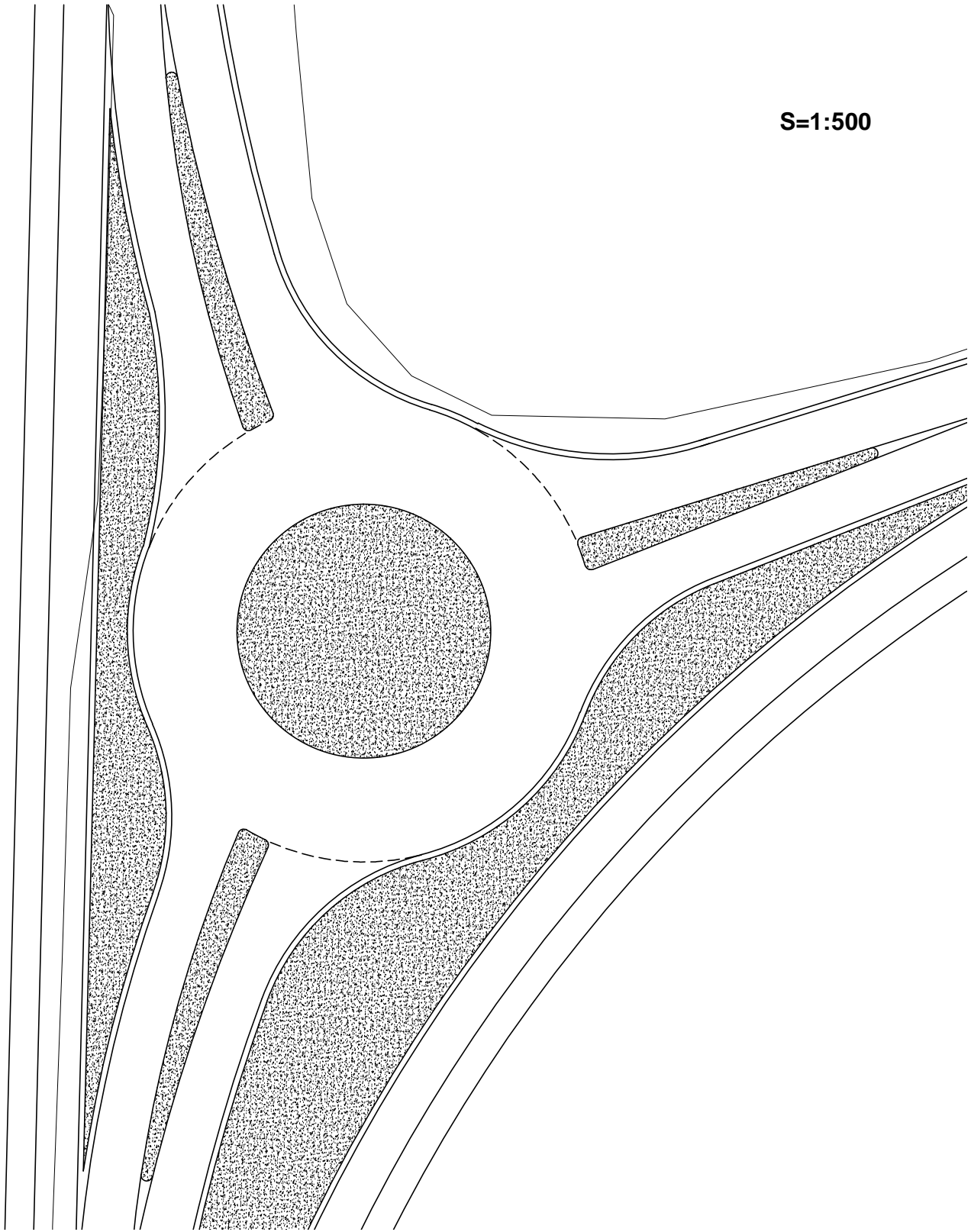
Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Description:	<b>ASUTSUARE JCT. - ASIKUMA JCT. CROSS SECTION (45/45)</b>	
	Scale : 1:200	Sheet 75/82

# INTERSECTION (1) ASUTSUARE JCT.

S=1:2,000



S=1:500



Designed by:	Signature:	<u>Revision</u>				<u>Notes</u> 1. All dimensions are in metre.
Checked by:	Signature:					
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:	
				JAN. 2013		

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

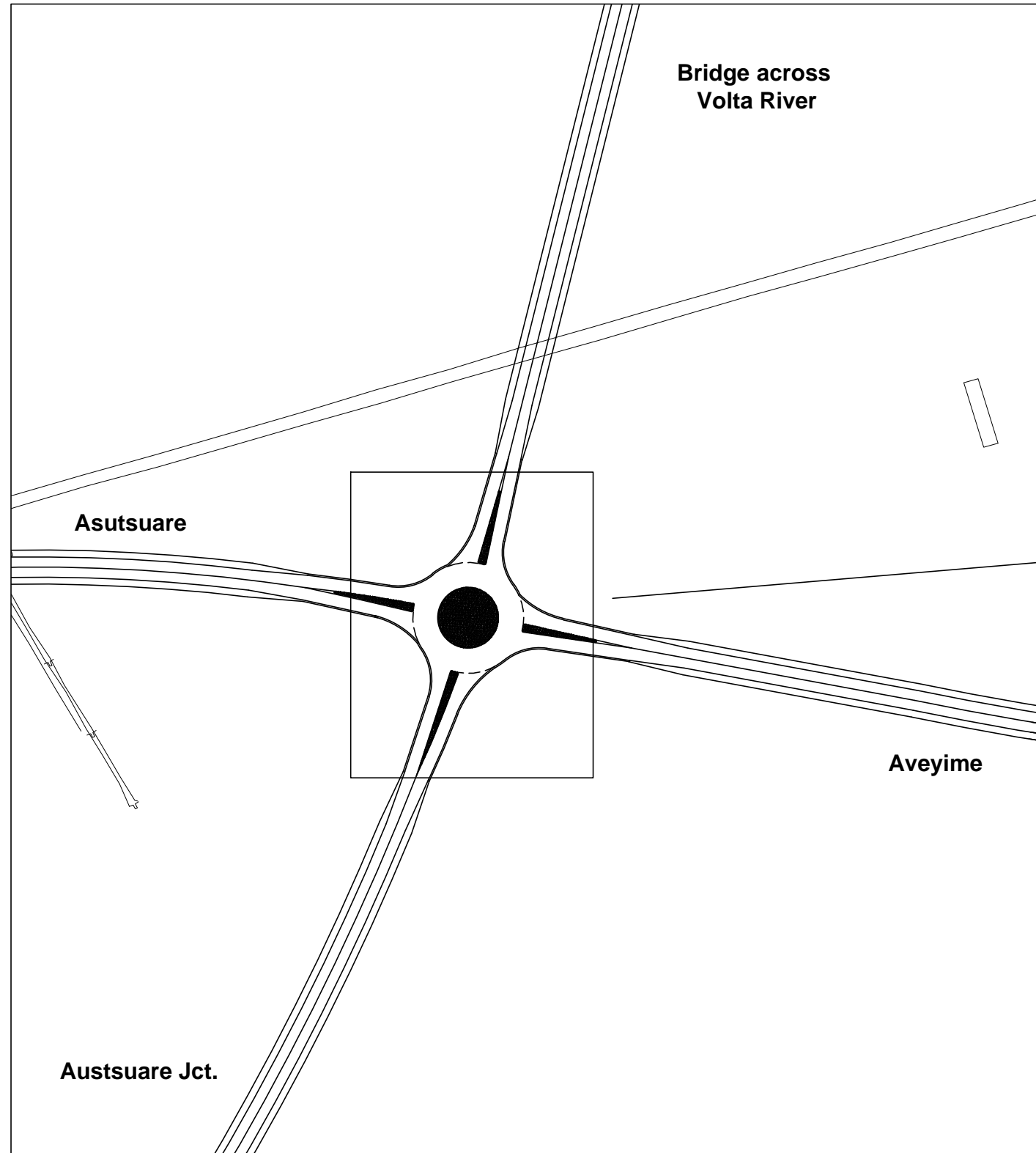
Description: **INTERSECTION (1)**



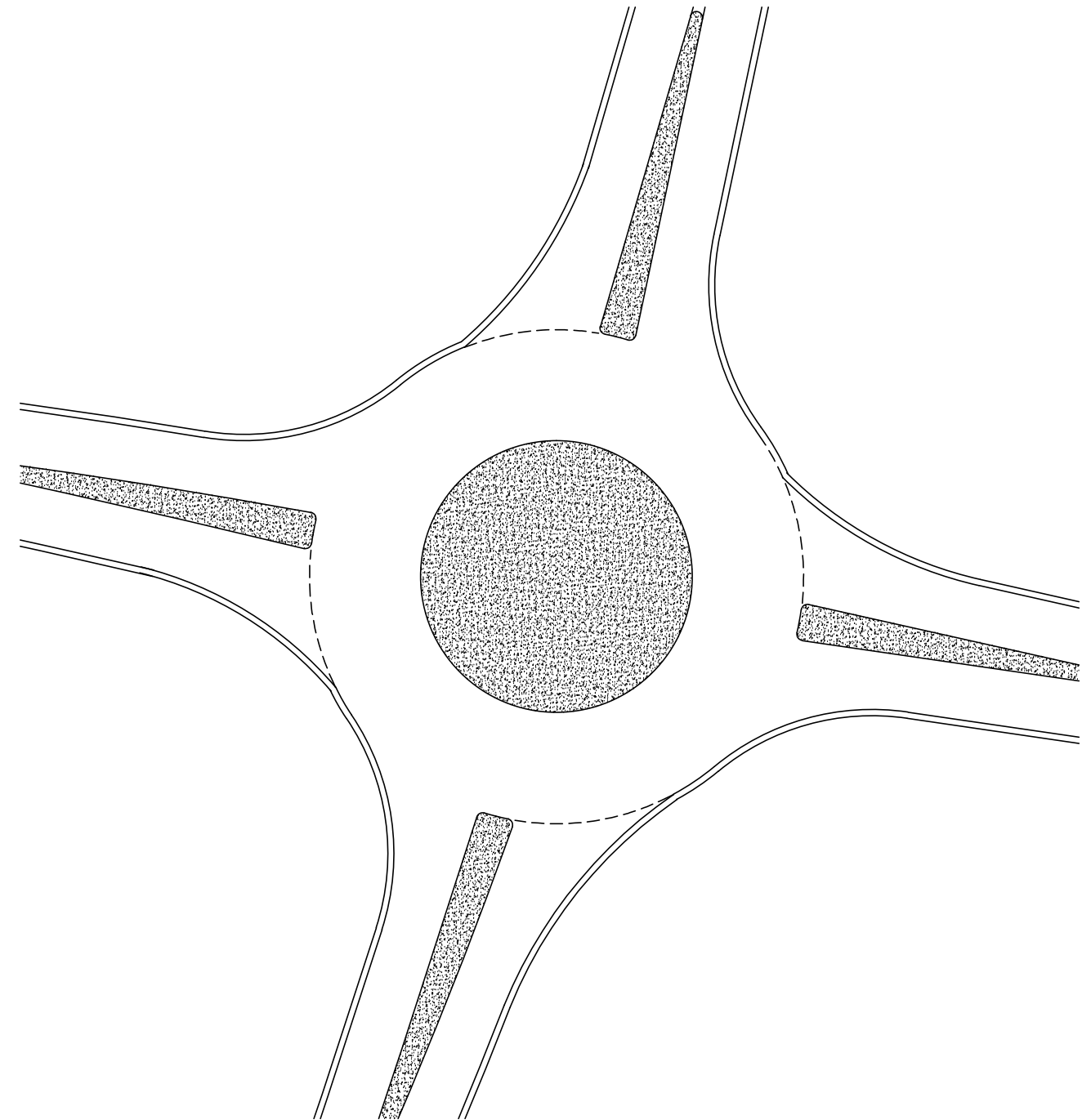
# INTERSECTION (2)

## VOLIVO INTERSECTION

S=1:2,000



S=1:500




Designed by:	Signature:	<u>Revision</u>			
Checked by:	Signature:				
Drawn by:	Signature:				
		Rev. no:	Rev. by:	Date:	Sign:
				JAN. 2013	

Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



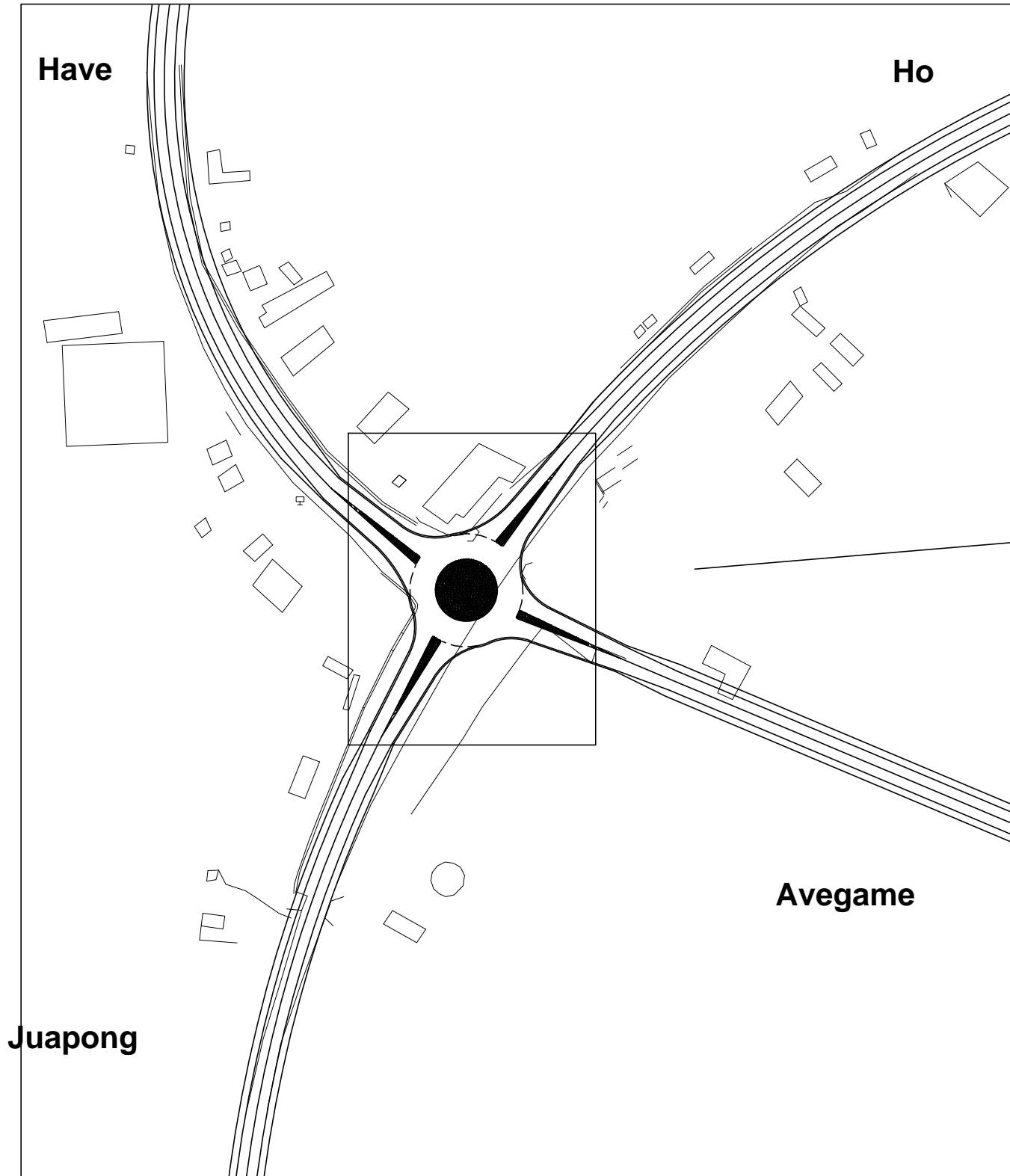
REPUBLIC OF GHANA

Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Description:	<b>INTERSECTION (2)</b>	
	Scale: As Shown	Sheet 77/82

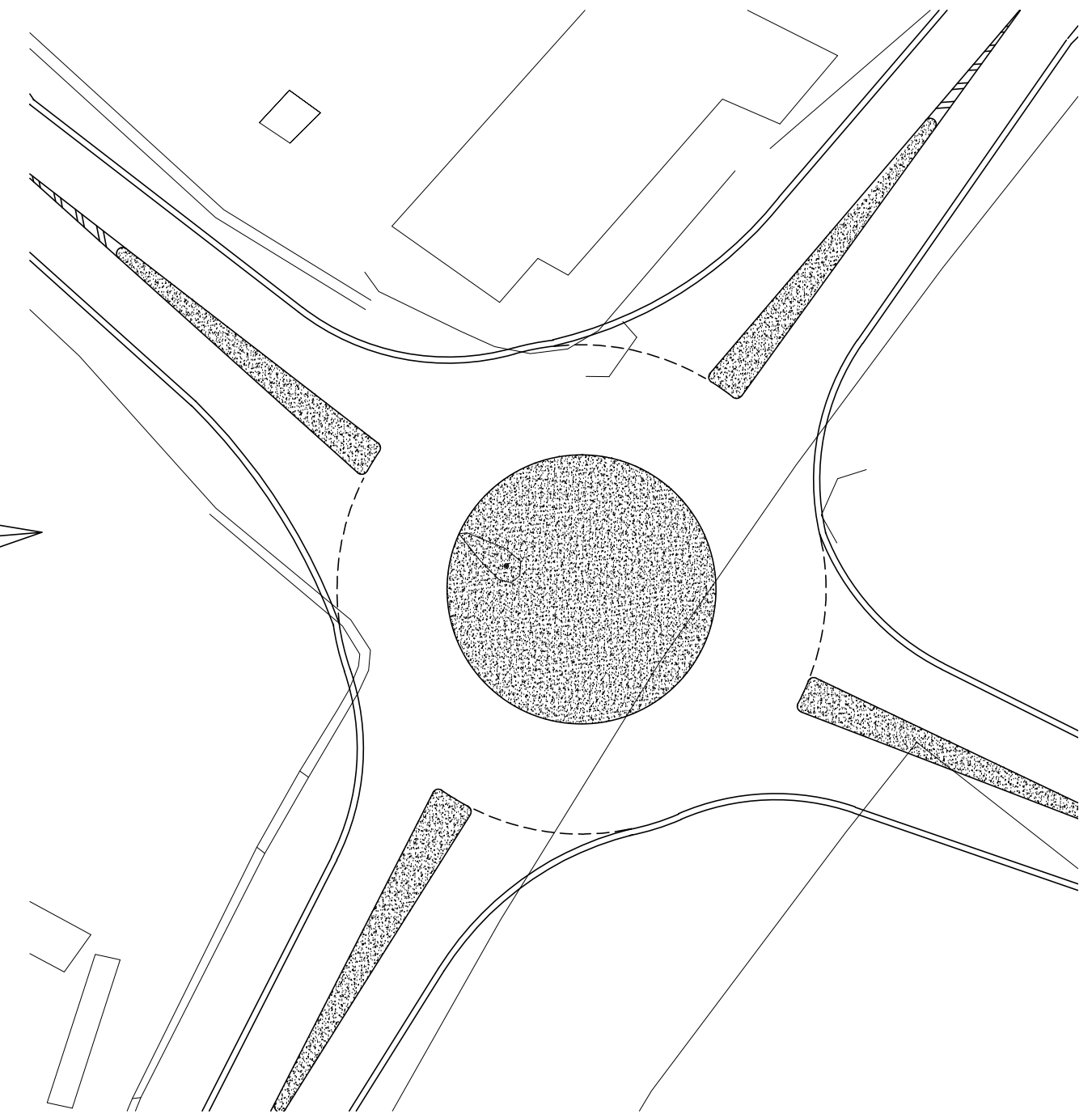
# INTERSECTION (3)

## ASIKUMA JCT.

S=1:2,000



S=1:500




Designed by:	Signature:	<u>Revision</u>			
Checked by:	Signature:				
Drawn by:	Signature:				
				JAN. 2013	Sign:

Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**

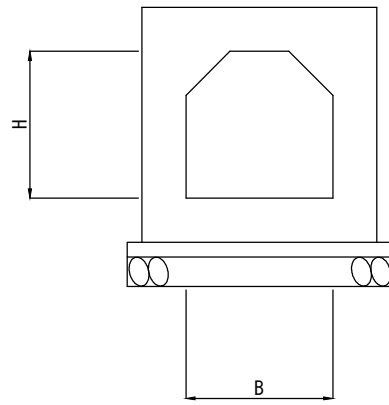


REPUBLIC OF GHANA

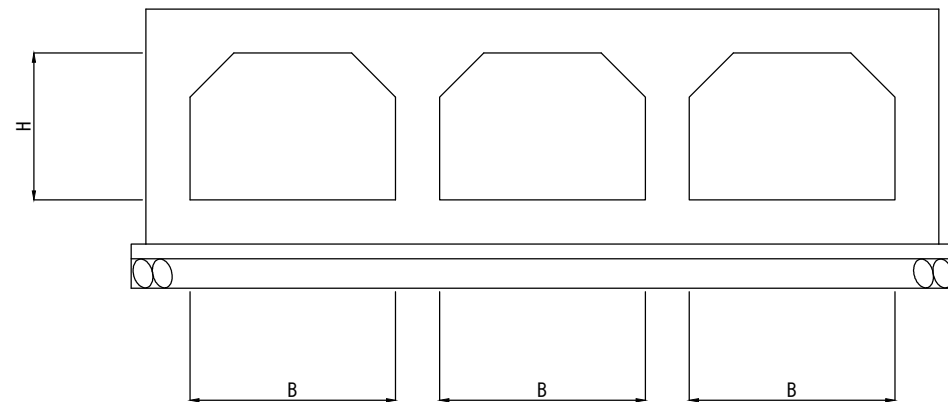
Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Description:	<b>INTERSECTION (3)</b>	
	Scale: As Shown	Sheet 77/82

## CULVERTS LOCATION

TYPE A



TYPE B



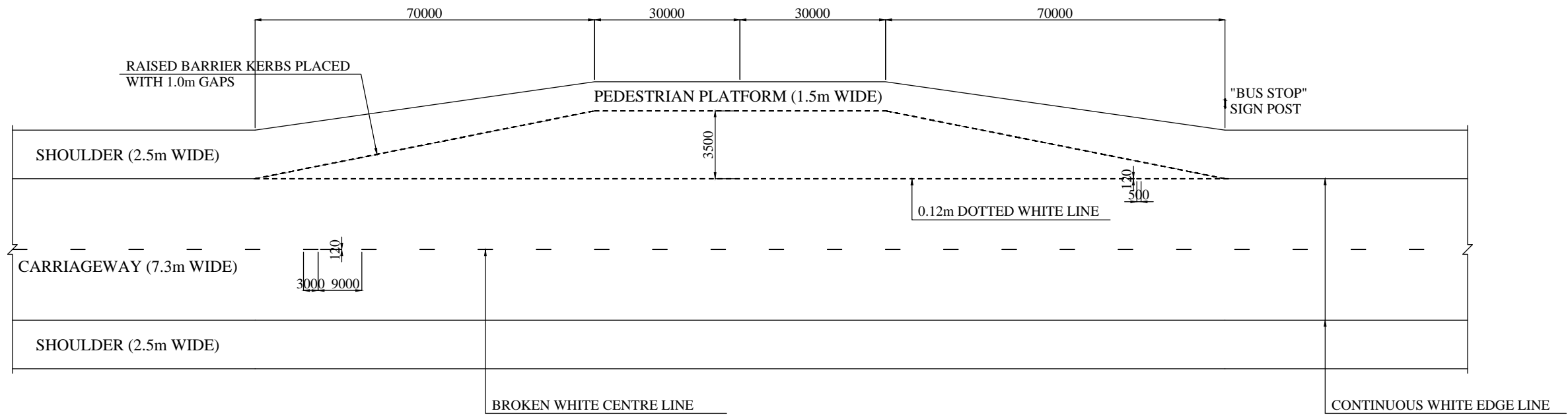
Road Between Asutsuare Jct. and Asikuma Jct.

	Station	Culvert Size	Remarks
1	No.00 + 660	Box 1 - B1.0 H1.0	Type A (Box)
2	No.01 + 710	Box 1 - B1.2 H1.0	Type A (Box)
3	No.07 + 100	Box 3 - B2.0 H1.2	Type B (Box)
4	No.08 + 000	Box 3 - B1.4 H1.0	Type B (Box)
5	No.10 + 410	Box 1 - B2.5 H1.0	Type A (Box)
6	No.12 + 780	Box 1 - B1.0 H1.0	Type A (Box)
7	No.15 + 340	Box 1 - B1.2 H1.0	Type A (Box)
8	No.15 + 700	Box 1 - B1.2 H1.0	Type A (Box)
9	No.24 + 320	Box 1 - B4.0 H2.6	Type A (Box)
10	No.25 + 210	Box 3 - B5.0 H2.0	Type B (Box)
11	No.26 + 700	Box 1 - B1.0 H1.0	Type A (Box)
12	No.33 + 000	Box 1 - B1.2 H1.0	Type A (Box)
13	No.45 + 890	Box 1 - B1.0 H1.0	Type A (Box)
14	No.47 + 800	Box 1 - B1.0 H1.0	Type A (Box)
15	No.49 + 540	Box 1 - B1.8 H1.3	Type A (Box)
16	No.50 + 157	Box 1 - B1.0 H1.0	Type A (Box)
17	No.54 + 910	Box 1 - B1.2 H1.2	Type A (Box)
18	No.60 + 500	Box 1 - B1.0 H1.0	Type A (Box)
19	No.62 + 000	Box 1 - B1.8 H1.3	Type A (Box)
20	No.62 + 770	Box 1 - B1.8 H1.3	Type A (Box)
21	No.65 + 510	Box 1 - B1.0 H1.0	Type A (Box)

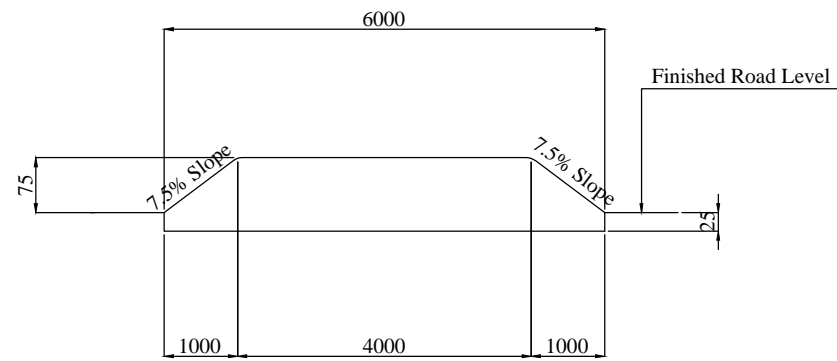
Note  
Dimensions of Box Culvert are in meters


Designed by:	Signature:	<u>Revision</u>				<u>Notes</u> 1. All dimensions are in mm.	REPUBLIC OF GHANA MINISTRY OF ROADS AND HIGHWAYS GHANA HIGHWAY AUTHORITY 	Project:	JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA		
Checked by:	Signature:							Description:	ASUTSUARE JCT. - ASIKUMA JCT. CULVERTS LOCATION		
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:			Scale :NTS	Sheet 79/82		
				JAN. 2013							

### BUS BAY LAYOUT

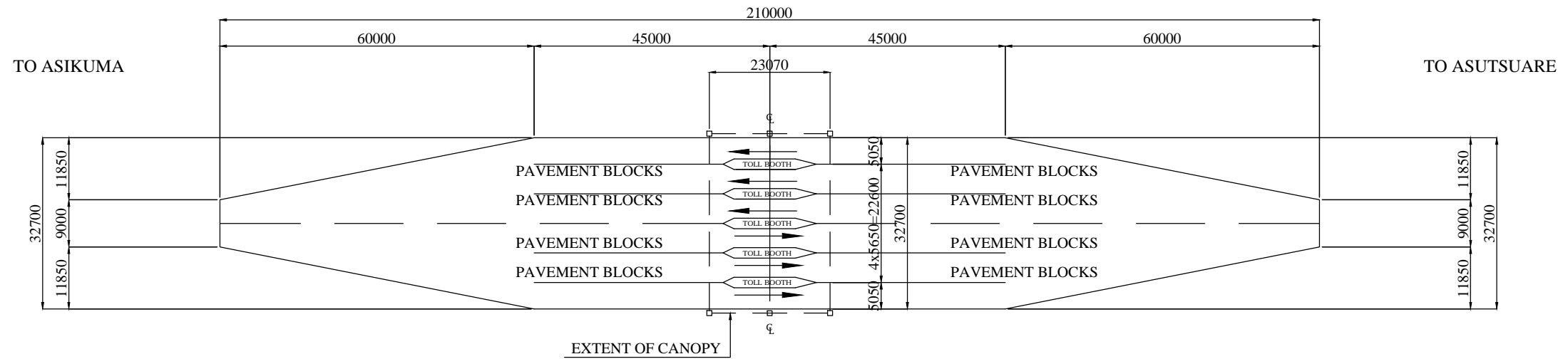



### TRAPEZOIDAL SPEED CUSHION



Designed by:	Signature:	<u>Revision</u>				<u>Notes</u> 1. All dimensions are in mm.	<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b>  <small>REPUBLIC OF GHANA</small>	Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Checked by:	Signature:							Description: <b>ASUTSUARE JCT. - ASIKUMA JCT. BUS BAY LAYOUT</b>
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:			Scale :NTS
				JAN. 2013				

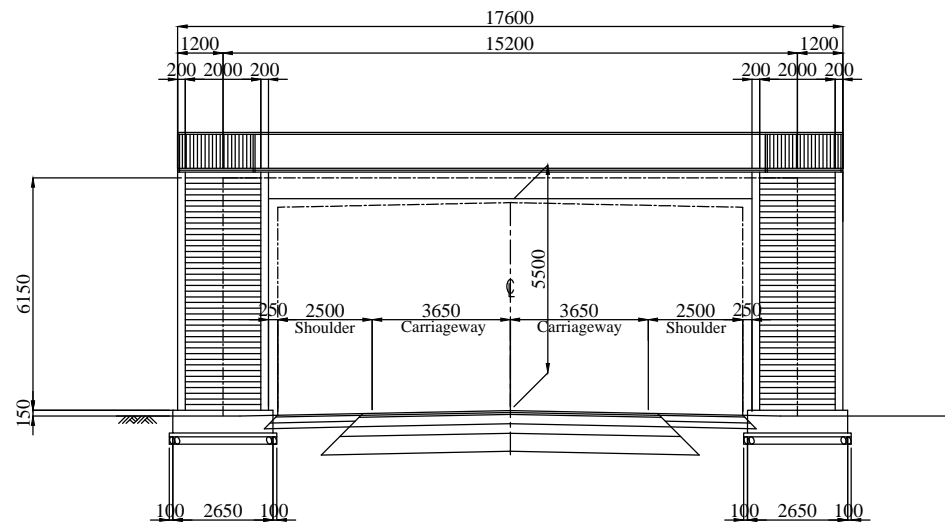
**PROPOSED TOLL BOOTH AT DAFOR ADIDOME**



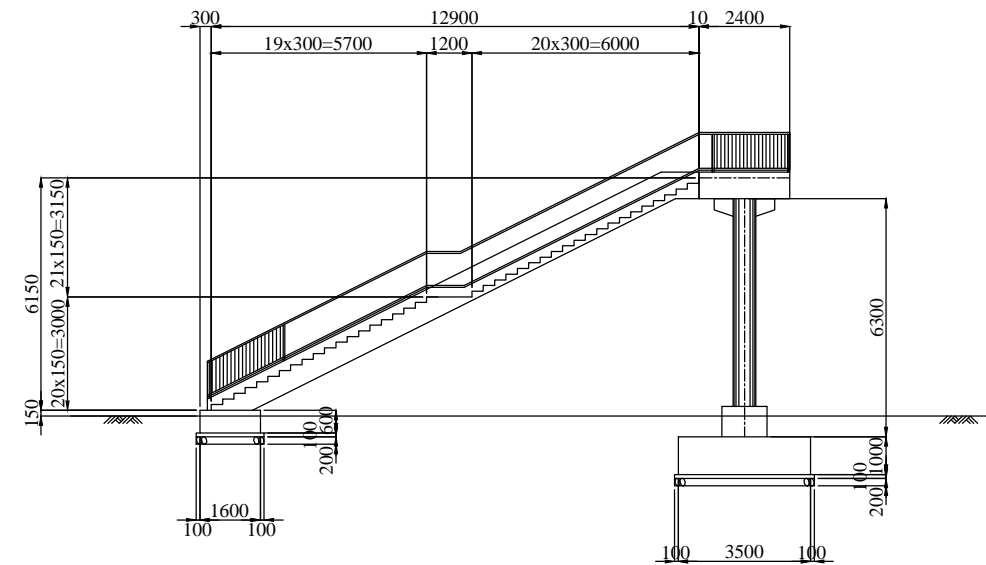
Designed by:	Signature:	<u>Revision</u>				<u>Notes</u> 1. All dimensions are in mm.	<p align="center"> <b>REPUBLIC OF GHANA</b>  <b>MINISTRY OF ROADS AND HIGHWAYS</b>  <b>GHANA HIGHWAY AUTHORITY</b> </p> 	Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Checked by:	Signature:							Description: <b>ASUTSUARE JCT. - ASIKUMA JCT. TOOL BOOTH LAYOUT</b>
Drawn by:	Signature:	Rev. no:	Rev. by:	Date: JAN. 2013	Sign:			Scale : 1:1000

# FOOTBRIDGE GENERAL VIEW

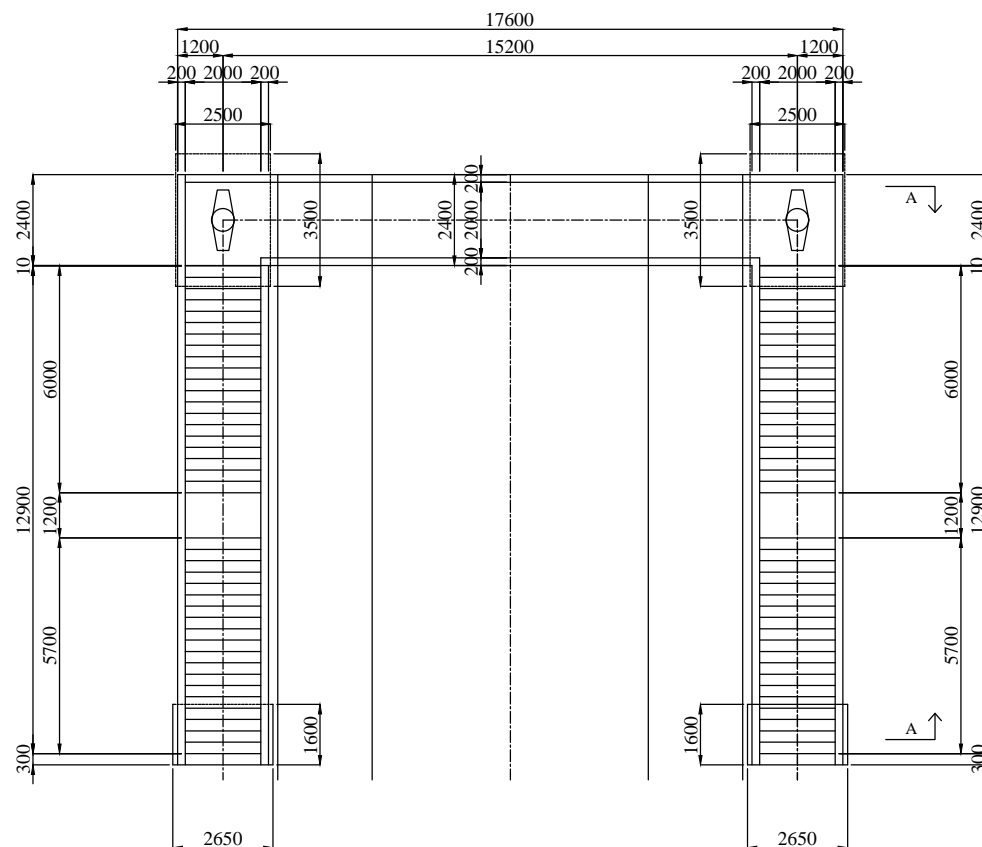
SIDE VIEW




SIDE VIEW A-A



PLAN



Designed by:	Signature:	<u>Revision</u>				<u>Notes</u>		Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>  Description: <b>ASUTSUARE JCT. - ASIKUMA JCT. FOOTBRIDGE GENERAL VIEW</b>	Scale :1:200	Sheet 82/82
Checked by:	Signature:	1. All dimensions are in mm.				REPUBLIC OF GHANA MINISTRY OF ROADS AND HIGHWAYS GHANA HIGHWAY AUTHORITY				
Drawn by:	Signature:					Rev. no:	Rev. by:			
				JAN. 2013						

**PART II**

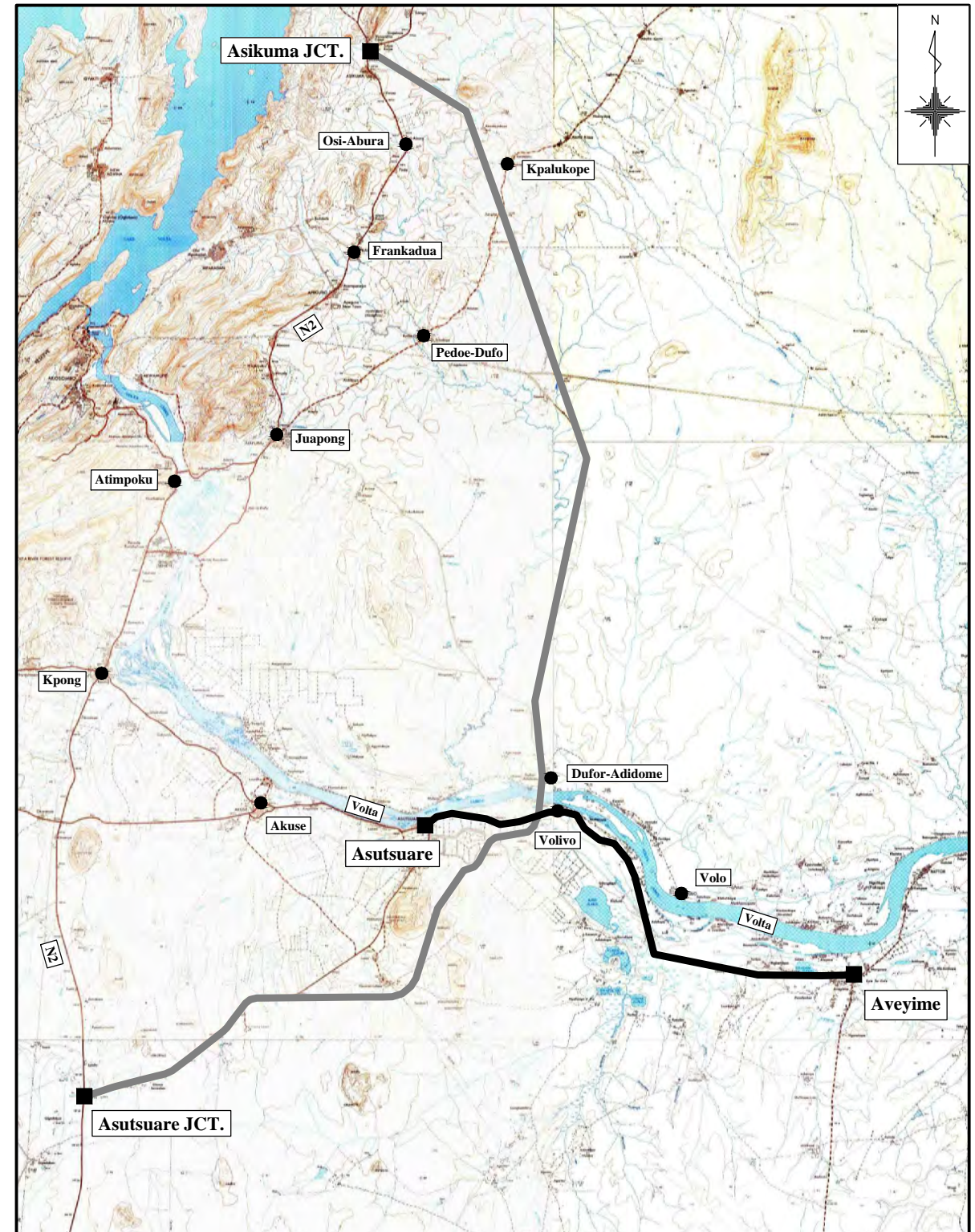
**ASUTSUARE - AVEYIME ROAD  
DRAWINGS**

# LOCATION MAP

**GENERAL MAP S=1:5,000,000**



**DETAIL MAP S=1:300,000**



Designed by:	Signature:	<u>Revision</u>				<u>Notes</u>
Checked by:	Signature:					
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:	
					JAN. 2013	

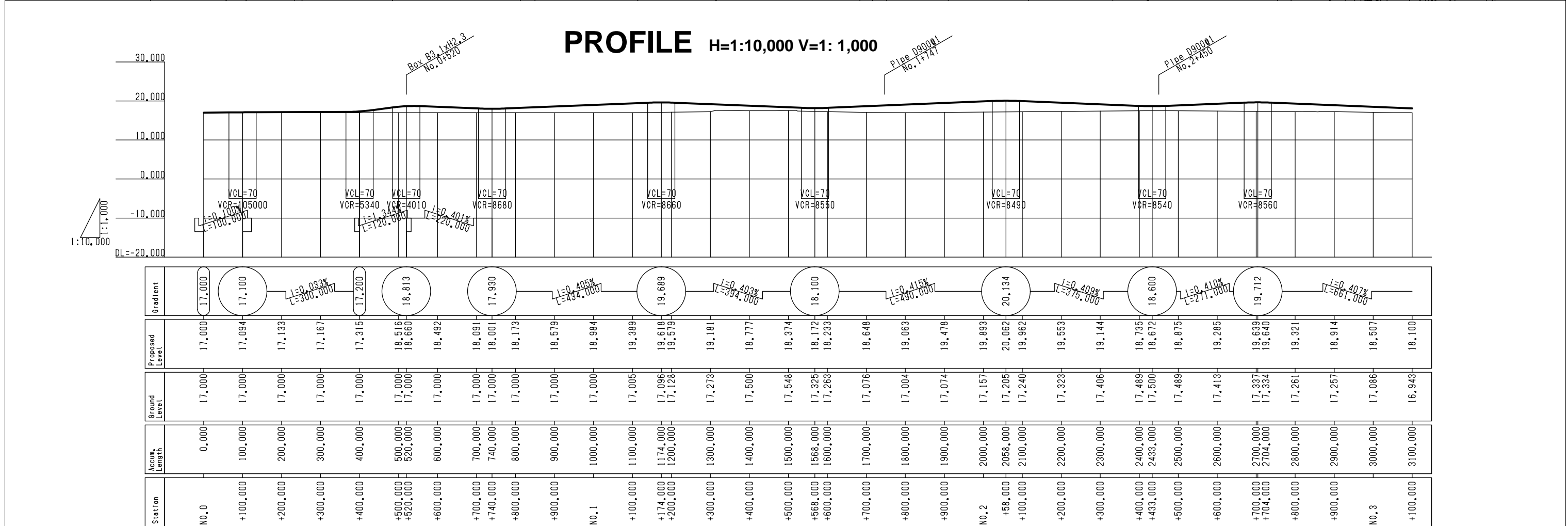
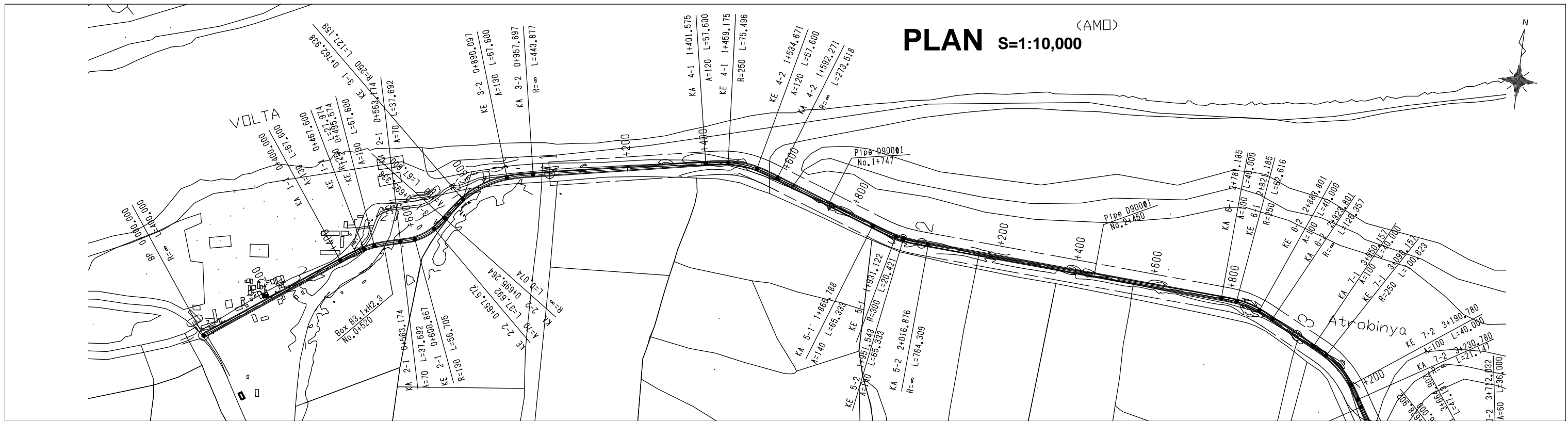
**REPUBLIC OF GHANA  
MINISTRY OF ROADS AND HIGHWAYS  
GHANA HIGHWAY AUTHORITY**




Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE - AVEYIME LOCATION MAP**

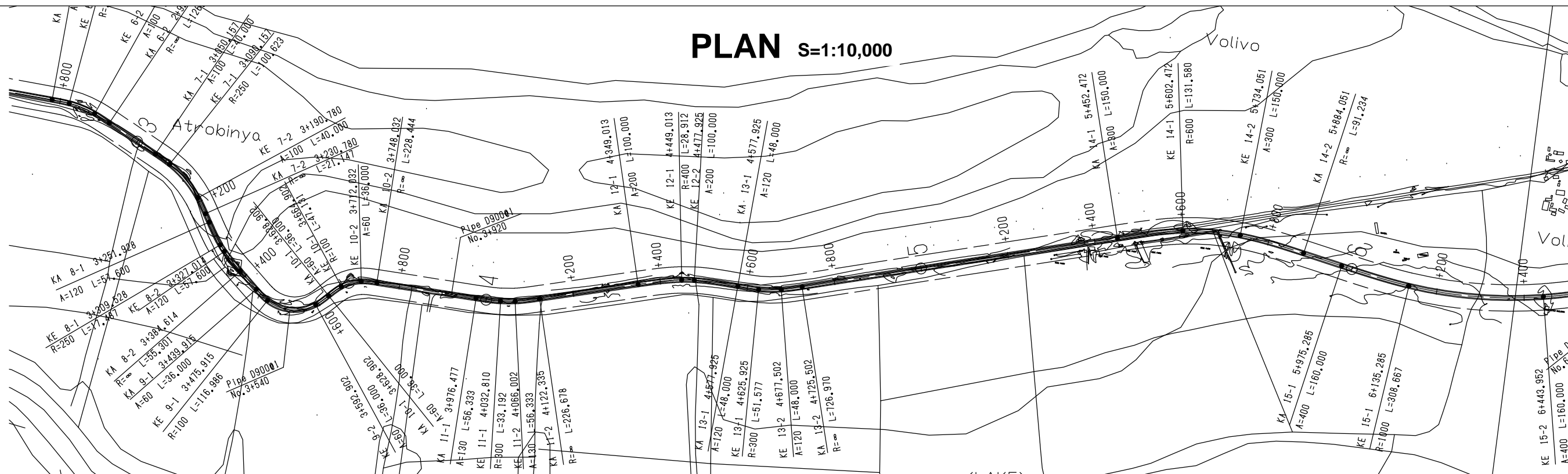




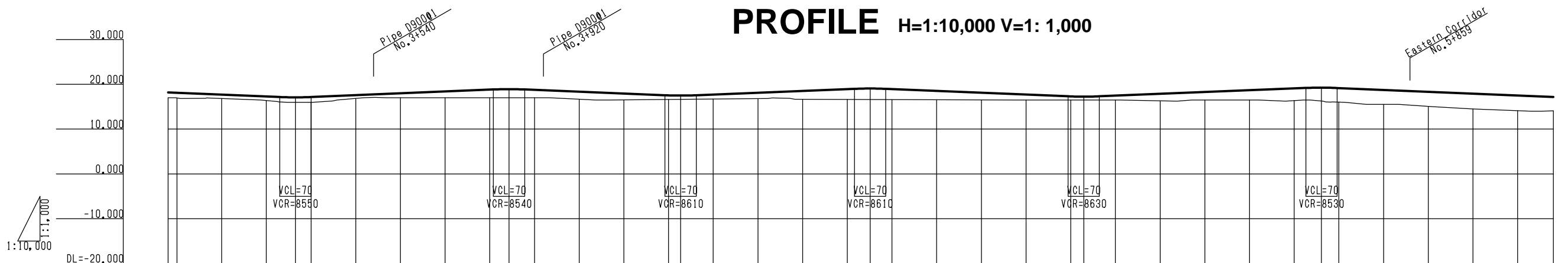
Station	Accum. Length	Ground Level	Proposed Level	Gradient
NO. 0	0.000	17.000	17.000	17.000
+100.000	100.000	17.000	17.094	17.100
+200.000	200.000	17.000	17.133	-0.033% (L=300.000)
+300.000	300.000	17.000	17.167	17.200
+400.000	400.000	17.000	17.315	18.813
+500.000	500.000	17.000	18.516	17.930
+520.000	520.000	17.000	18.660	-0.405% (L=434.000)
+600.000	600.000	17.000	18.492	19.689
+700.000	700.000	17.000	18.091	-0.403% (L=394.000)
+740.000	740.000	17.000	18.001	18.100
+800.000	800.000	17.000	18.173	-0.415% (L=430.000)
+900.000	900.000	17.000	18.579	20.134
NO. 1	1000.000	17.000	18.984	-0.409% (L=375.000)
+100.000	1100.000	17.005	19.389	18.600
+174.000	1174.000	17.096	19.618	-0.410% (L=271.000)
+200.000	1200.000	17.128	19.579	19.712
+300.000	1300.000	17.273	19.181	-0.407% (L=667.000)
+400.000	1400.000	17.500	18.777	
+500.000	1500.000	17.548	18.374	
+568.000	1568.000	17.325	18.172	
+600.000	1600.000	17.263	18.233	
+700.000	1700.000	17.076	18.648	
+800.000	1800.000	17.004	19.063	
+900.000	1900.000	17.074	19.478	
NO. 2	2000.000	17.157	19.893	
+58.000	2058.000	17.205	20.062	
+100.000	2100.000	17.240	19.962	
+200.000	2200.000	17.323	19.553	
+300.000	2300.000	17.406	19.144	
+400.000	2400.000	17.489	18.735	
+433.000	2433.000	17.500	18.672	
+500.000	2500.000	17.489	18.875	
+600.000	2600.000	17.413	19.285	
+700.000	2700.000	17.337	19.639	
+704.000	2704.000	17.334	19.640	
+800.000	2800.000	17.261	19.321	
+900.000	2900.000	17.257	18.914	
NO. 3	3000.000	17.086	18.507	
+100.000	3100.000	16.943	18.100	

Designed by:	Signature:	<u>Revision</u>	<u>Notes</u>			<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b>	Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Checked by:	Signature:		1. All dimensions are in metre.			 <small>REPUBLIC OF GHANA</small>	Description:	<b>ASUTSUARE - AVEYIME PLAN &amp; PROFILE (1/8)</b>
Drawn by:	Signature:	Rev. no:				Rev. by:	Date:	Sign:
				OCT. 2012				

# PLAN S=1:10,000



# PROFILE H=1:10,000 V=1: 1,000



Station	Accum. Length	Ground Level	Proposed Level	Gradient
+80.000	3080.000	16.989	18.181	I=0.407% L=667.000
+100.000	3100.000	16.943	18.100	
+200.000	3200.000	16.825	17.693	17.021
+300.000	3300.000	16.388	17.286	
+365.000	3365.000	16.000	17.093	I=0.411% L=478.000
+400.000	3400.000	15.999	17.165	
+500.000	3500.000	16.854	17.577	18.988
+600.000	3600.000	17.000	17.988	
+700.000	3700.000	17.000	18.400	I=0.408% L=384.000
+800.000	3800.000	17.000	18.811	
+843.000	3843.000	17.000	18.916	17.419
+900.000	3900.000	17.000	18.755	
NO. 4	4000.000	16.676	18.347	I=0.405% L=424.000
+100.000	4100.000	16.530	17.938	
+200.000	4200.000	16.618	17.533	19.135
+227.000	4227.000	16.642	17.490	
+300.000	4300.000	16.707	17.715	I=0.409% L=478.000
+400.000	4400.000	16.795	18.119	
+500.000	4500.000	16.662	18.524	17.182
+600.000	4600.000	16.628	18.928	
+651.000	4651.000	16.610	19.063	I=0.403% L=532.000
+700.000	4700.000	16.594	18.934	
+800.000	4800.000	16.560	18.526	19.326
+900.000	4900.000	16.526	18.117	
NO. 5	5000.000	16.500	17.709	I=0.418% L=715.000
+100.000	5100.000	16.500	17.302	
+128.000	5128.000	16.500	17.253	17.468
+200.000	5200.000	16.500	17.468	
+300.000	5300.000	16.313	17.871	18.274
+400.000	5400.000	16.500	18.274	
+500.000	5500.000	16.500	18.677	18.745
+600.000	5600.000	16.373	19.080	
+661.000	5661.000	16.285	19.254	18.327
+700.000	5700.000	16.028	19.163	
+800.000	5800.000	15.500	18.745	17.909
+900.000	5900.000	15.061	18.327	
NO. 6	6000.000	14.495	17.909	17.491
+100.000	6100.000	14.113	17.491	
+180.000	6180.000	14.091	17.157	

Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		OCT. 2012		

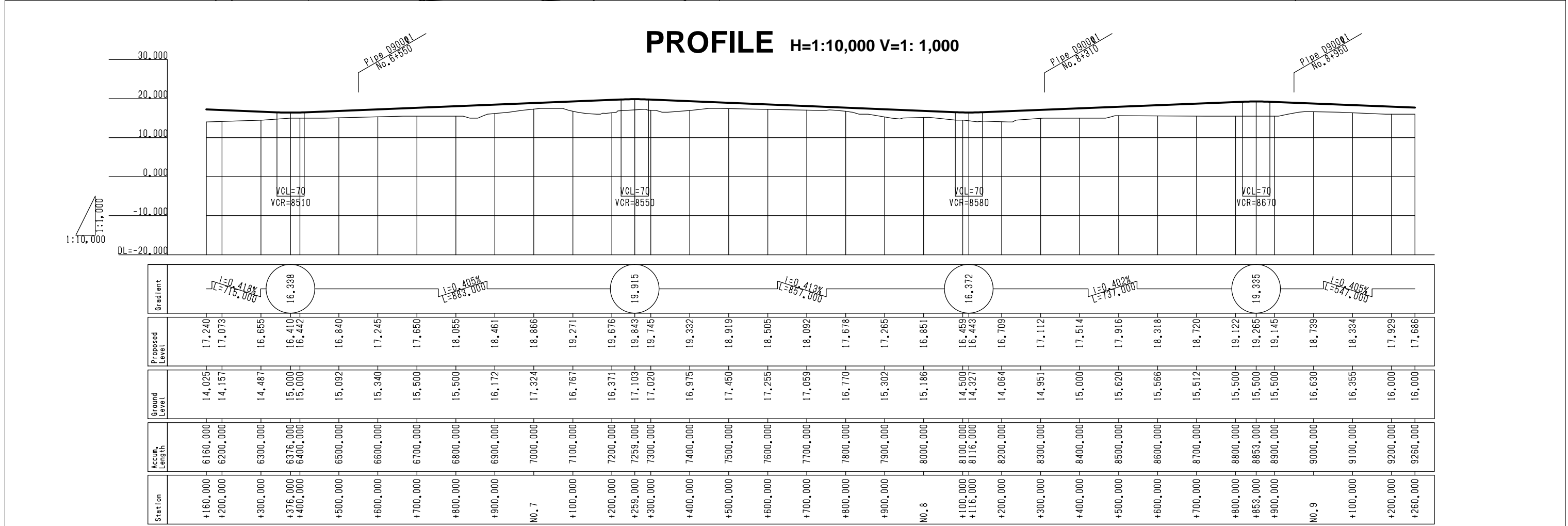
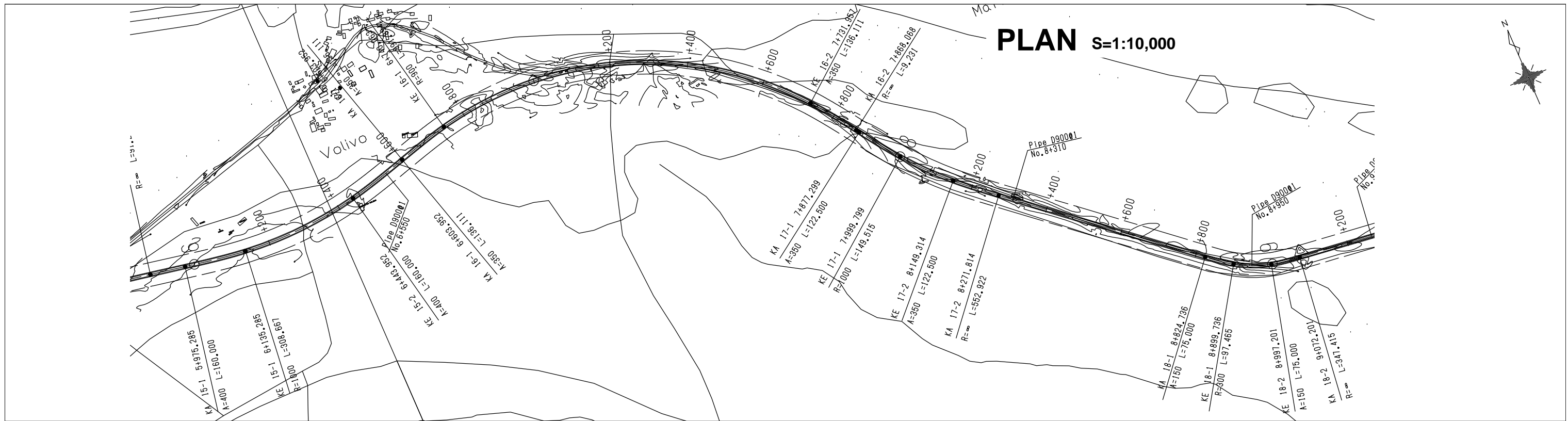
**Notes**

1. All dimensions are in metre.

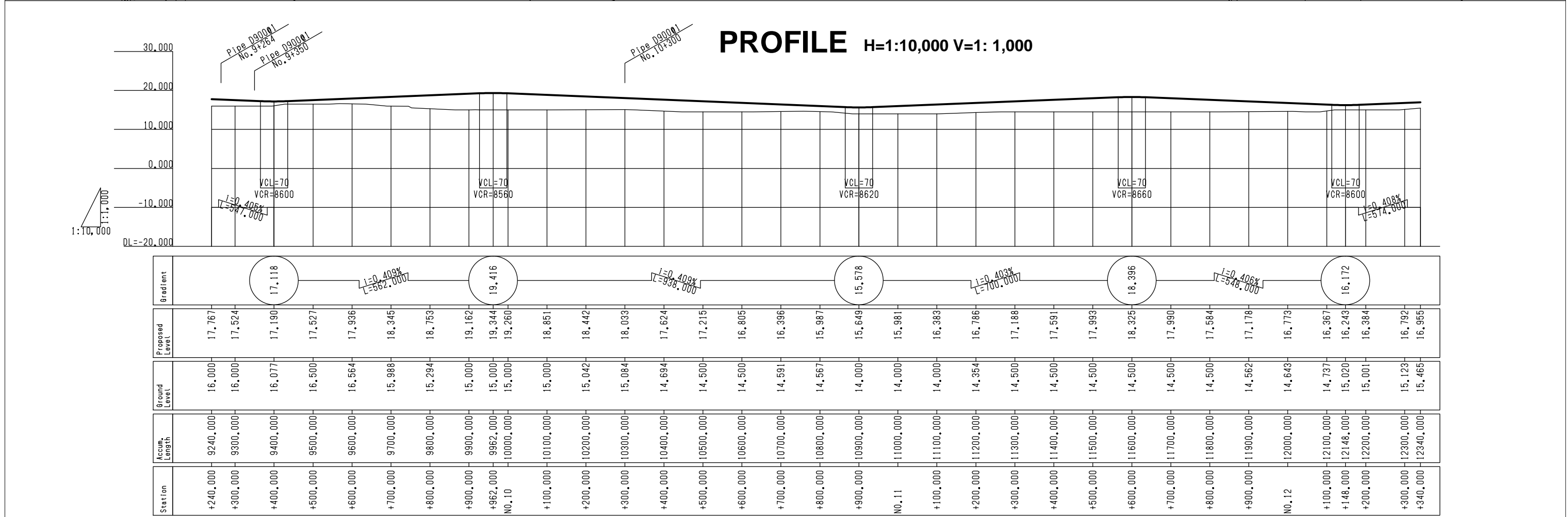
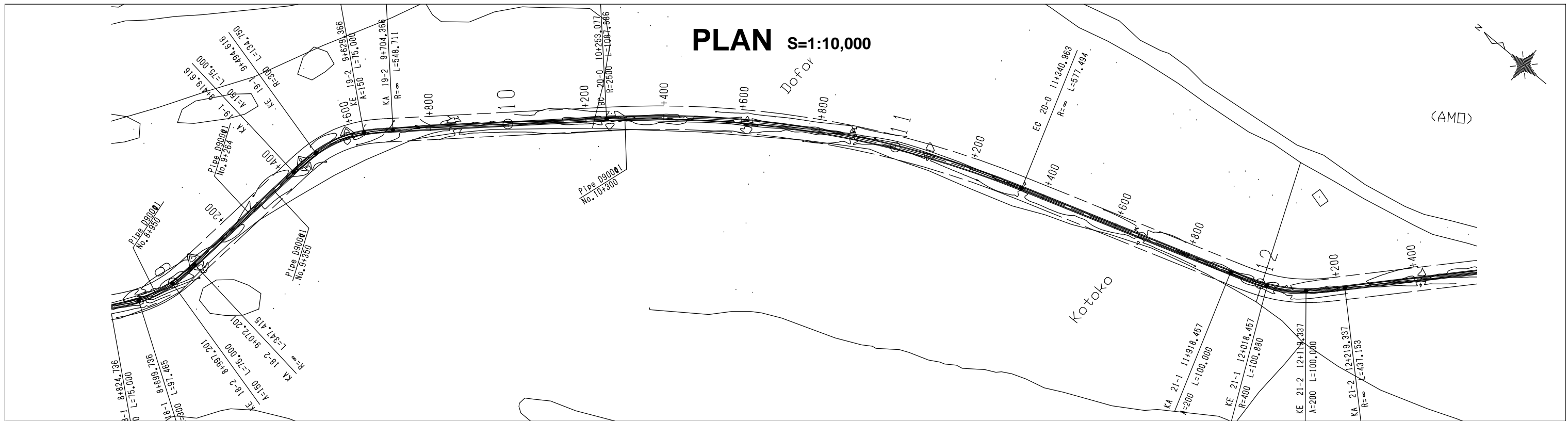
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**


**Project:** JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA  
**Description:** ASUTSUARE - AVEYIME PLAN & PROFILE (2/8)

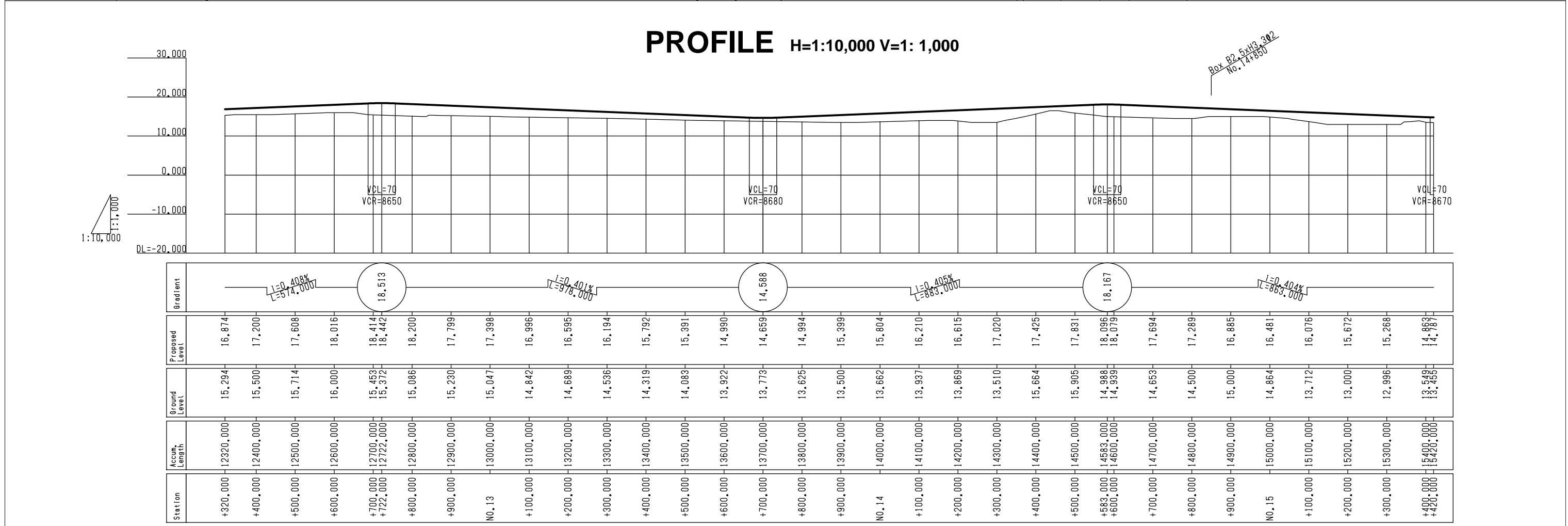
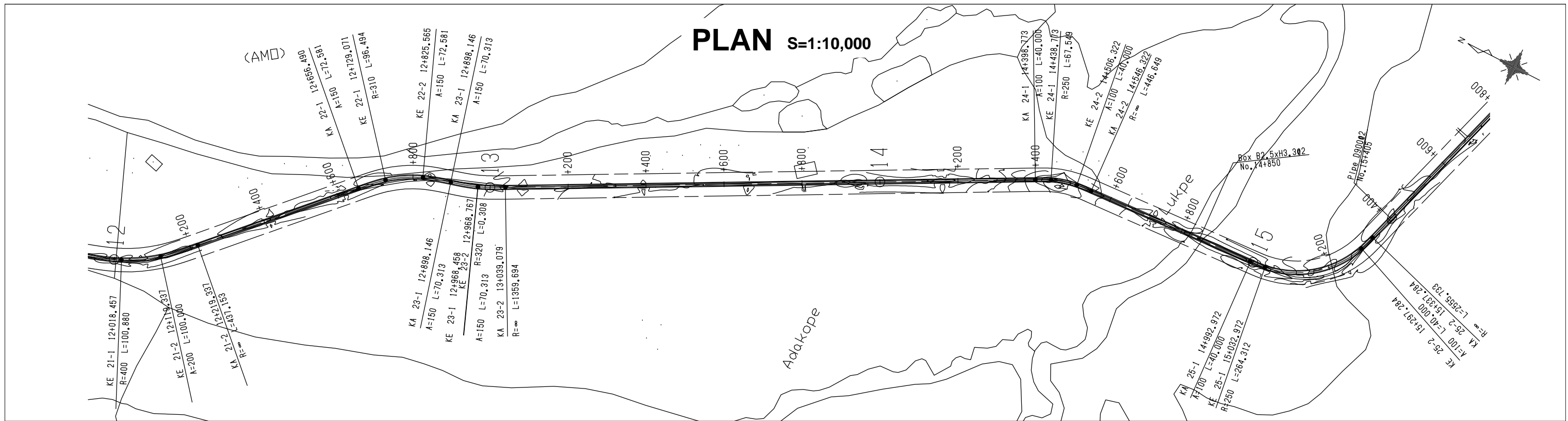
Scale : As Shown      Sheet 3/25




Designed by:	Signature:	<b>Revision</b>				<b>Notes</b>	1. All dimensions are in metre.	<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b>		Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Checked by:	Signature:									Description:	<b>ASUTSUARE - AVEYIME PLAN &amp; PROFILE (3/8)</b>	
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:			OCT. 2012		Scale : As Shown	Sheet 4/25	

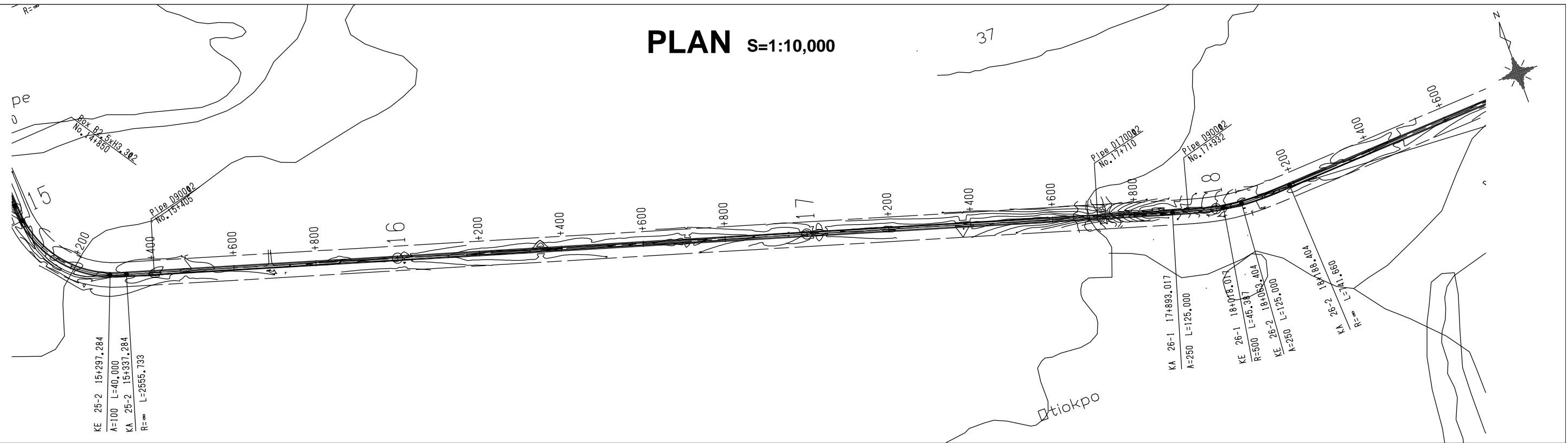


Designed by:	Signature:	<u>Revision</u>				<u>Notes</u>	<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b>	Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Checked by:	Signature:					1. All dimensions are in metre.	 <small>REPUBLIC OF GHANA</small>	Description: <b>ASUTSUARE - AVEYIME PLAN &amp; PROFILE (4/8)</b>
Drawn by:	Signature:	Rev. no:	Rev. by:	Date:	Sign:		Scale : As Shown	Sheet 5/25
				OCT. 2012				

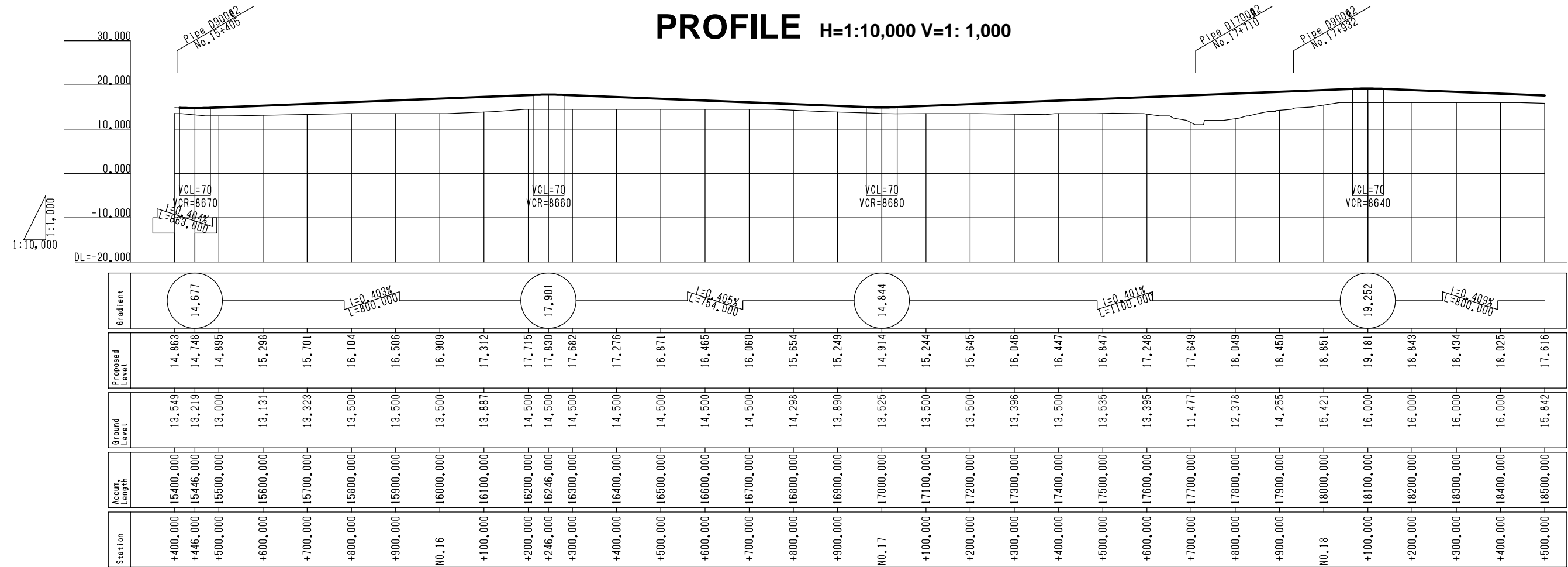


Designed by:	Signature:	<u>Revision</u>	<u>Notes</u>			<b>REPUBLIC OF GHANA</b> <b>MINISTRY OF ROADS AND HIGHWAYS</b> <b>GHANA HIGHWAY AUTHORITY</b>	Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Checked by:	Signature:		1. All dimensions are in metre.			 <small>REPUBLIC OF GHANA</small>	Description:	<b>ASUTSUARE - AVEYIME PLAN &amp; PROFILE (5/8)</b>
Drawn by:	Signature:	Rev. no:				Rev. by:	Date:	Sign:
				OCT. 2012				

# PLAN S=1:10,000



# PROFILE H=1:10,000 V=1: 1,000



Designed by: \_\_\_\_\_  
 Checked by: \_\_\_\_\_  
 Drawn by: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
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**Revision**

Rev. no:	Rev. by:	Date:	Sign:
		OCT. 2012	

**Notes**

1. All dimensions are in metre.

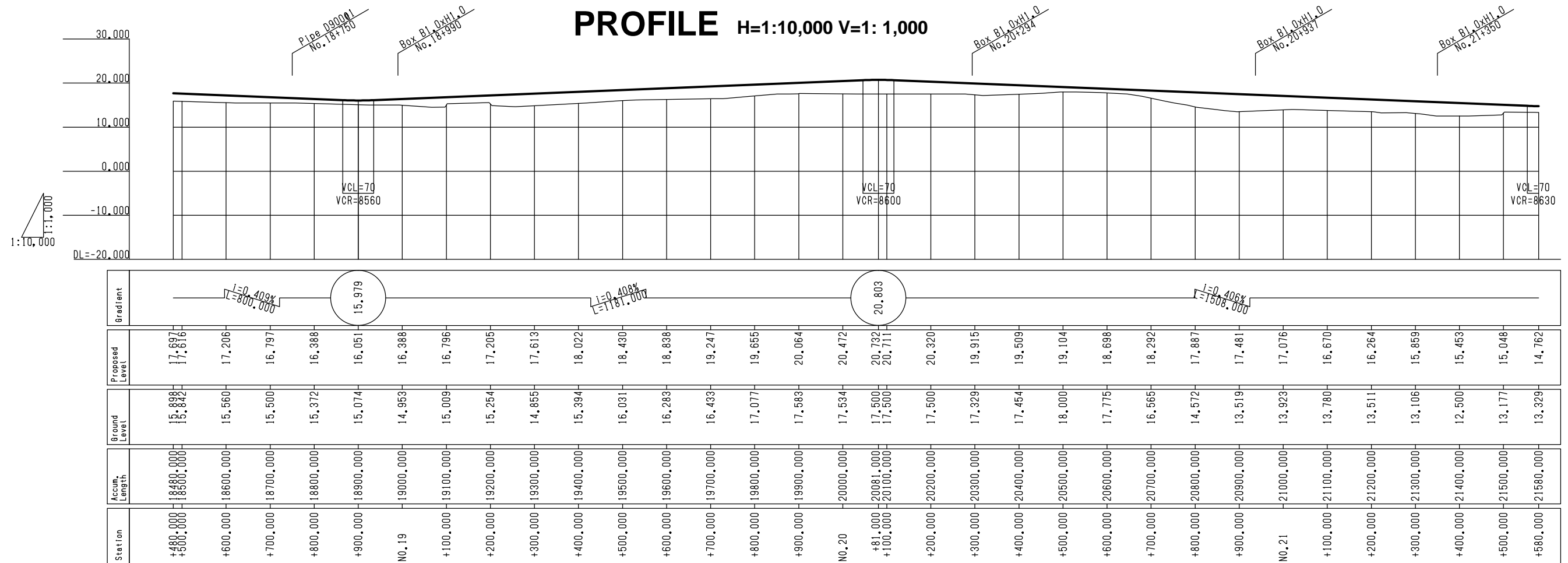
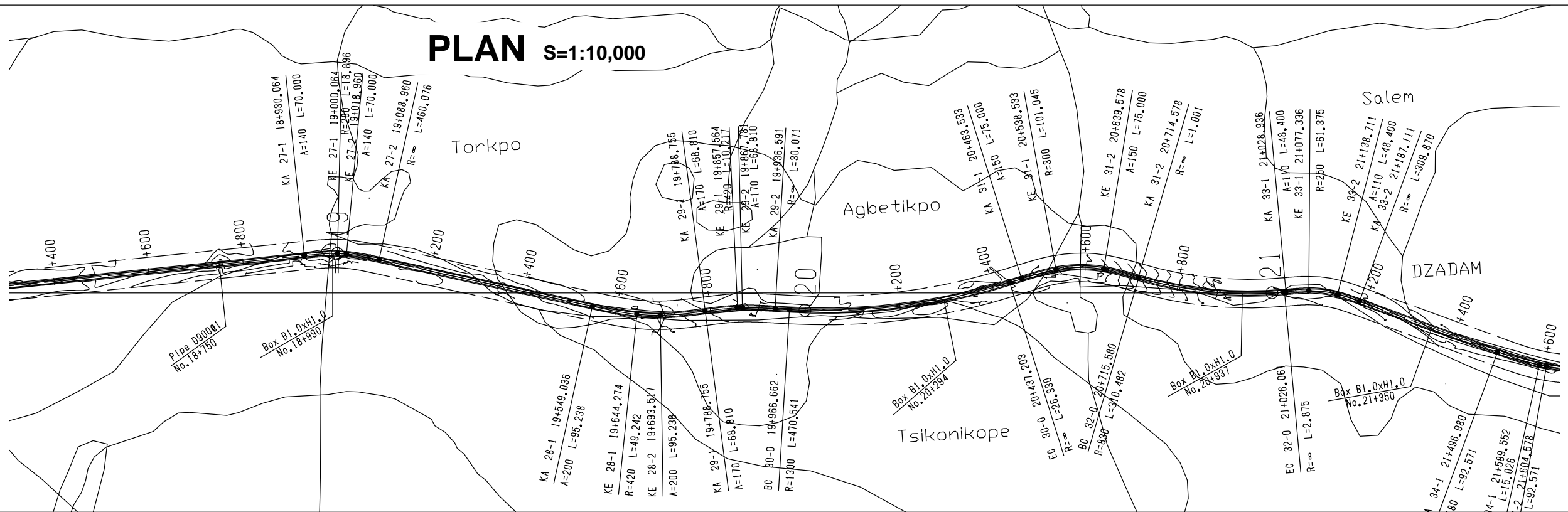
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE - AVEYIME PLAN & PROFILE (6/8)**

Scale : As Shown      Sheet 7/25



Designed by: \_\_\_\_\_ Signature: \_\_\_\_\_

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Revision				
Rev. no:	Rev. by:	Date:	Sign:	
		OCT. 2012		

Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**

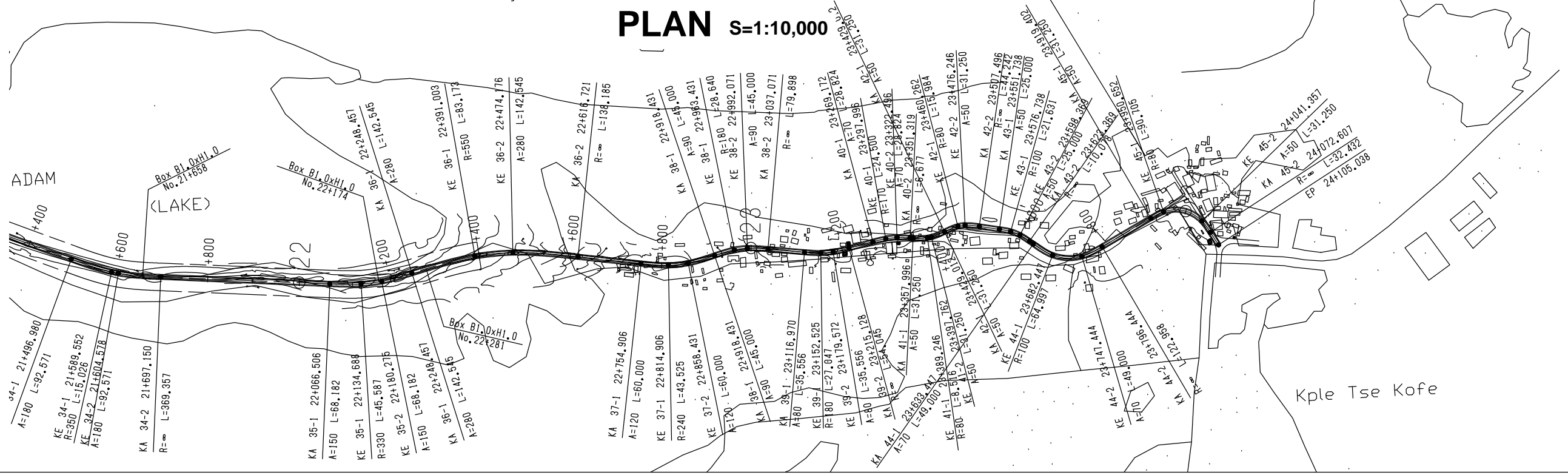
Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE - AVEYIME PLAN & PROFILE (7/8)**

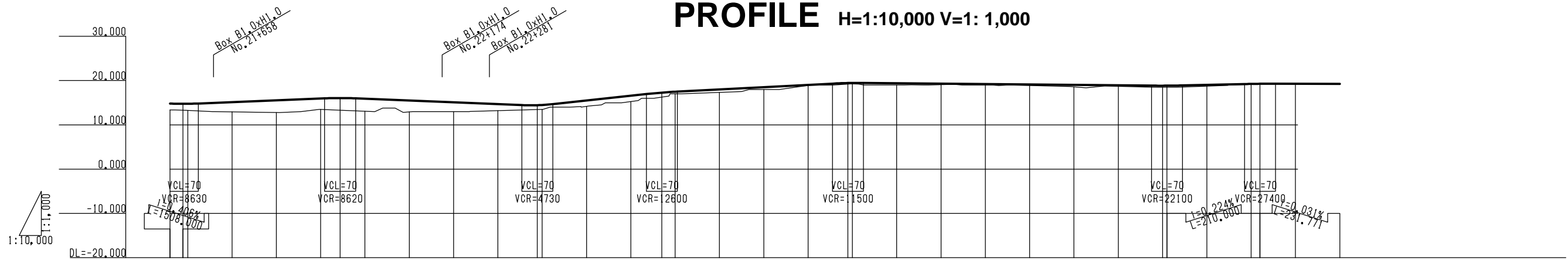
Scale : As Shown      Sheet 8/25

Aveyime

# PLAN S=1:10,000



# PROFILE H=1:10,000 V=1: 1,000



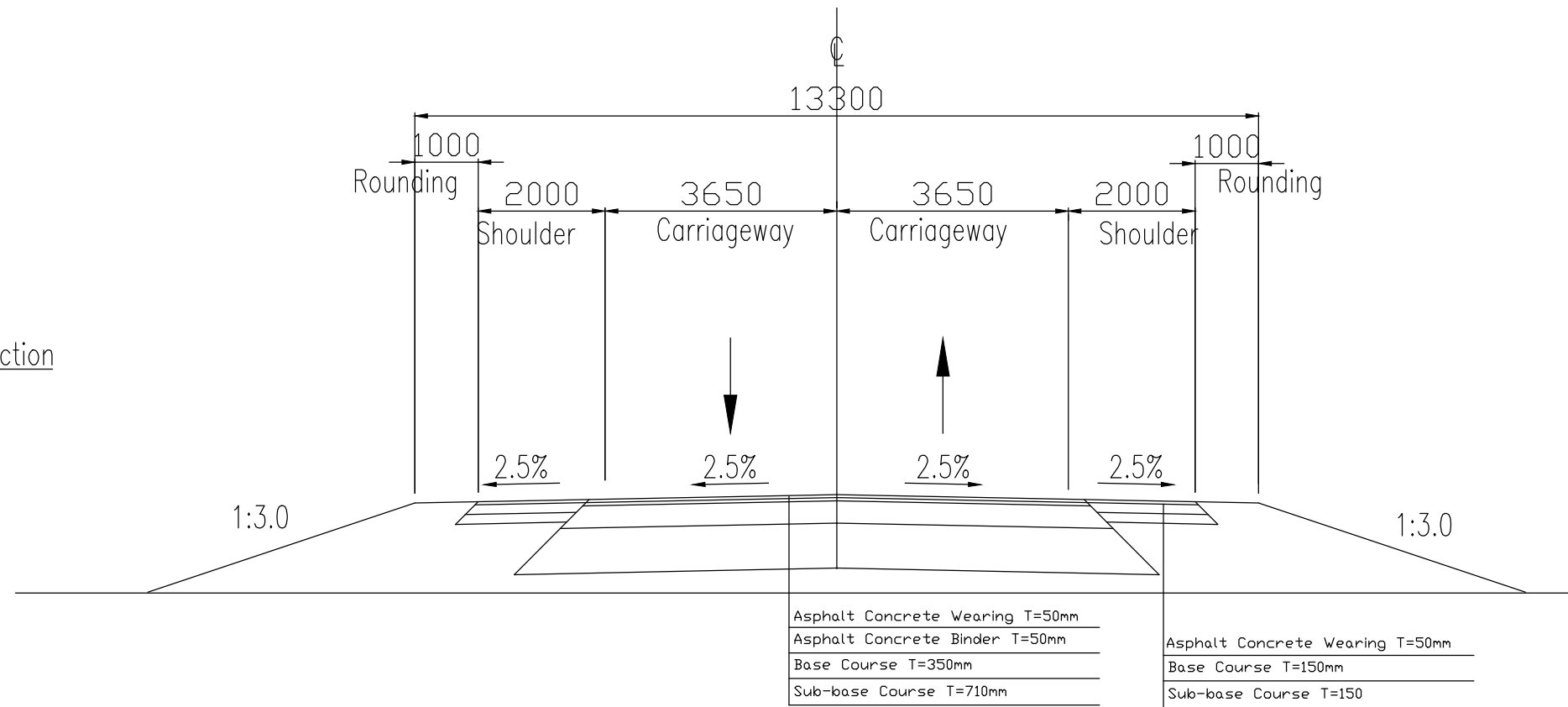
Station	Accum. Length	Ground Level	Proposed Level	Gradient
+568.000	+21568.000	13.366	14.806	14.687
+600.000	+21600.000	13.268	14.765	L=0.406% L=355.000
+700.000	+21700.000	12.941	15.137	16.128
+800.000	+21800.000	12.790	15.543	L=0.406% L=445.000
+900.000	+21900.000	13.493	15.949	14.321
+944.000	+21944.000	13.314	16.057	L=1.072% L=287.000
N0.22	+22000.000	13.085	15.900	17.334
+100.000	+22100.000	12.941	15.494	19.500
+200.000	+22200.000	13.000	15.088	L=0.516% L=420.000
+300.000	+22300.000	13.216	14.682	18.830
+389.000	+22389.000	13.465	14.450	19.300
+400.000	+22400.000	13.496	14.499	L=0.093% L=720.000
+500.000	+22500.000	14.174	15.511	18.830
+600.000	+22600.000	15.280	16.583	19.300
+670.000	+22670.000	16.272	17.285	19.447
+700.000	+22700.000	17.000	17.488	19.464
+800.000	+22800.000	17.315	18.005	19.398
+900.000	+22900.000	18.000	18.520	19.304
N0.23	+23000.000	18.907	19.036	19.211
+90.000	+23090.000	19.217	19.447	19.118
+100.000	+23100.000	19.257	19.464	19.025
+200.000	+23200.000	19.000	19.398	18.932
+300.000	+23300.000	19.067	19.304	18.853
+400.000	+23400.000	19.000	19.211	18.857
+500.000	+23500.000	18.886	19.118	19.031
+600.000	+23600.000	18.585	19.025	19.251
+700.000	+23700.000	18.711	18.932	19.278
+800.000	+23800.000	18.482	18.853	19.275
+810.000	+23810.000	18.461	18.857	19.244
+900.000	+23900.000	18.745	19.031	
N0.24	+24000.000	19.128	19.251	
+100.000	+24020.000	19.173	19.278	
+100.000	+24100.000	19.224	19.275	
+200.000	+24200.000	19.244	19.244	

Designed by:	Signature:	Revision		Notes		<p>REPUBLIC OF GHANA MINISTRY OF ROADS AND HIGHWAYS GHANA HIGHWAY AUTHORITY</p>	Project: JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA	
Checked by:	Signature:						Description: ASUTSUARE - AVEYIME PLAN & PROFILE (8/8)	
Drawn by:	Signature:	Rev. no:	Rev. by:	Date: OCT. 2012	Sign:		Scale : As Shown	Sheet 9/25

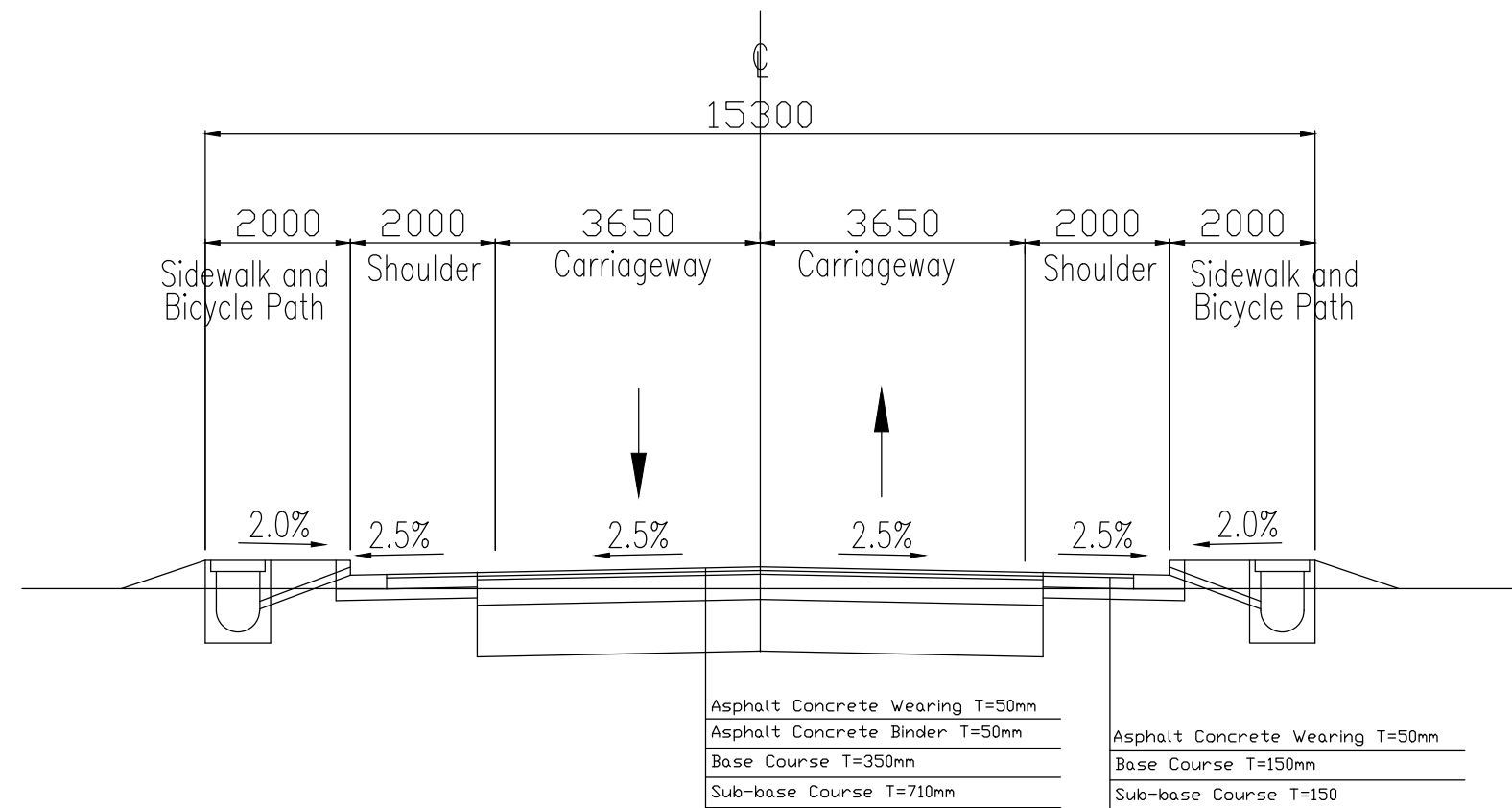


# TYPICAL CROSS-SECTION S=1:100

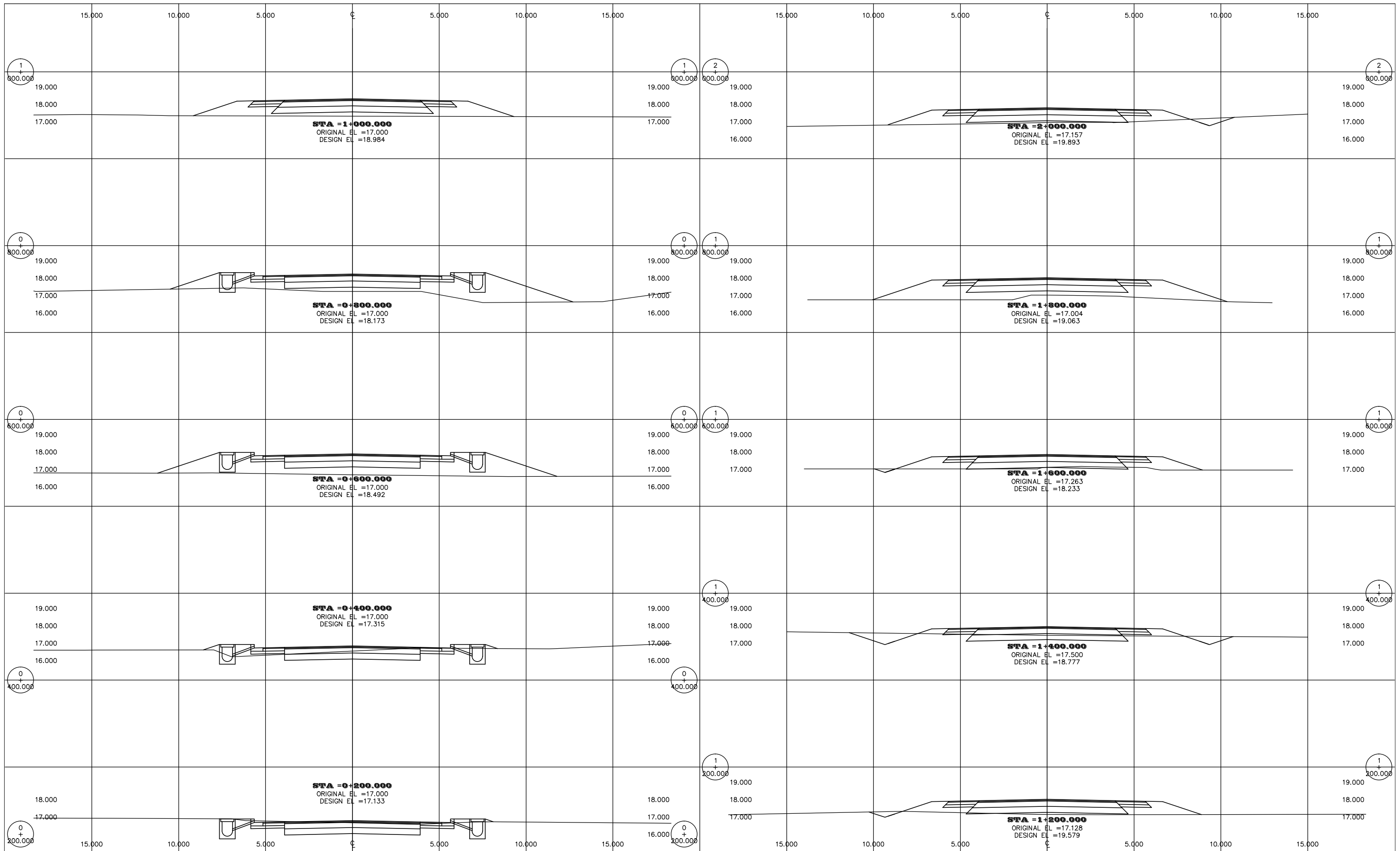
General Section



Township Area



Designed by:	Signature:	<u>Revision</u>				<u>Notes</u>		Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b> 	
Checked by:	Signature:	1. All dimensions are in millimetre.				REPUBLIC OF GHANA MINISTRY OF ROADS AND HIGHWAYS GHANA HIGHWAY AUTHORITY 		Description: <b>ASUTSUARE - AVEYIME TYPICAL CROSS-SECTION</b>	
Drawn by:	Signature:					Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013							




Designed by: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Checked by: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Drawn by: \_\_\_\_\_  
 Signature: \_\_\_\_\_

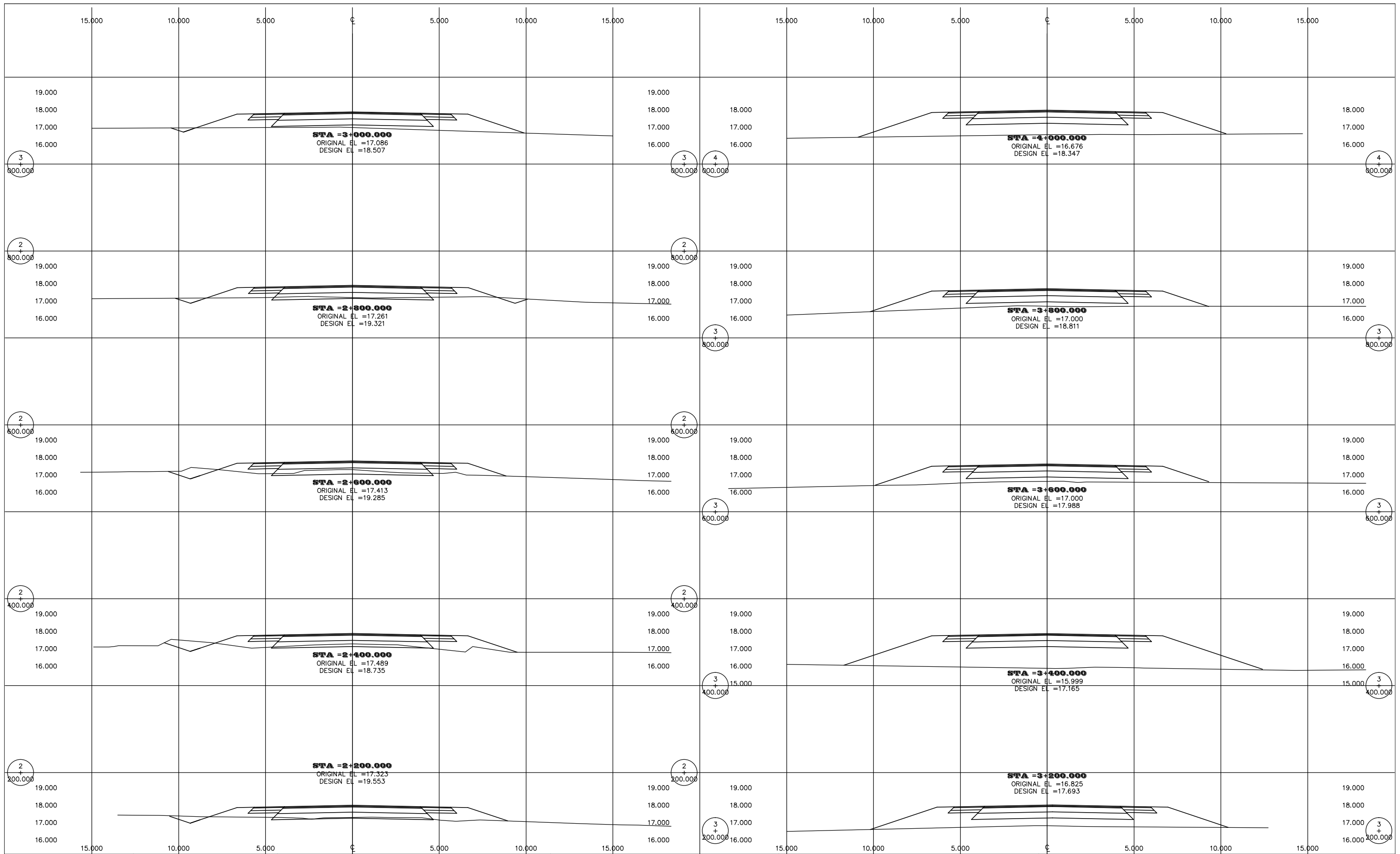
Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes  
 1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE - AVEYIME CROSS SECTION (1/13)**  
 Scale : 1:200  
 Sheet 11/25



Designed by: \_\_\_\_\_  
Checked by: \_\_\_\_\_  
Drawn by: \_\_\_\_\_


Signature: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Signature: \_\_\_\_\_

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes

1. All dimensions are in metre.

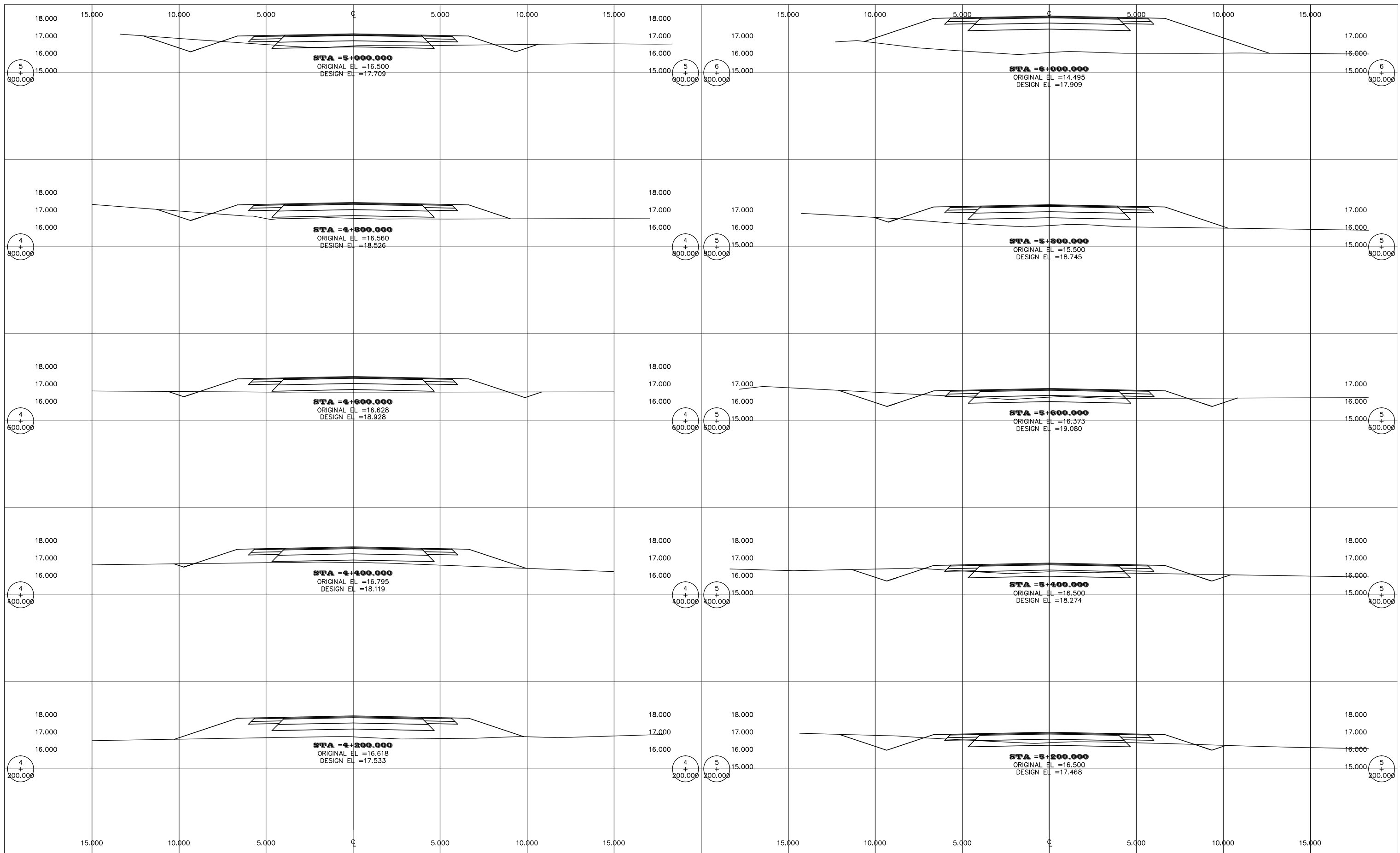
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**

Description: **ASUTSUARE - AVEYIME CROSS SECTION (2/13)**

Scale : 1:200      Sheet 12/25




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

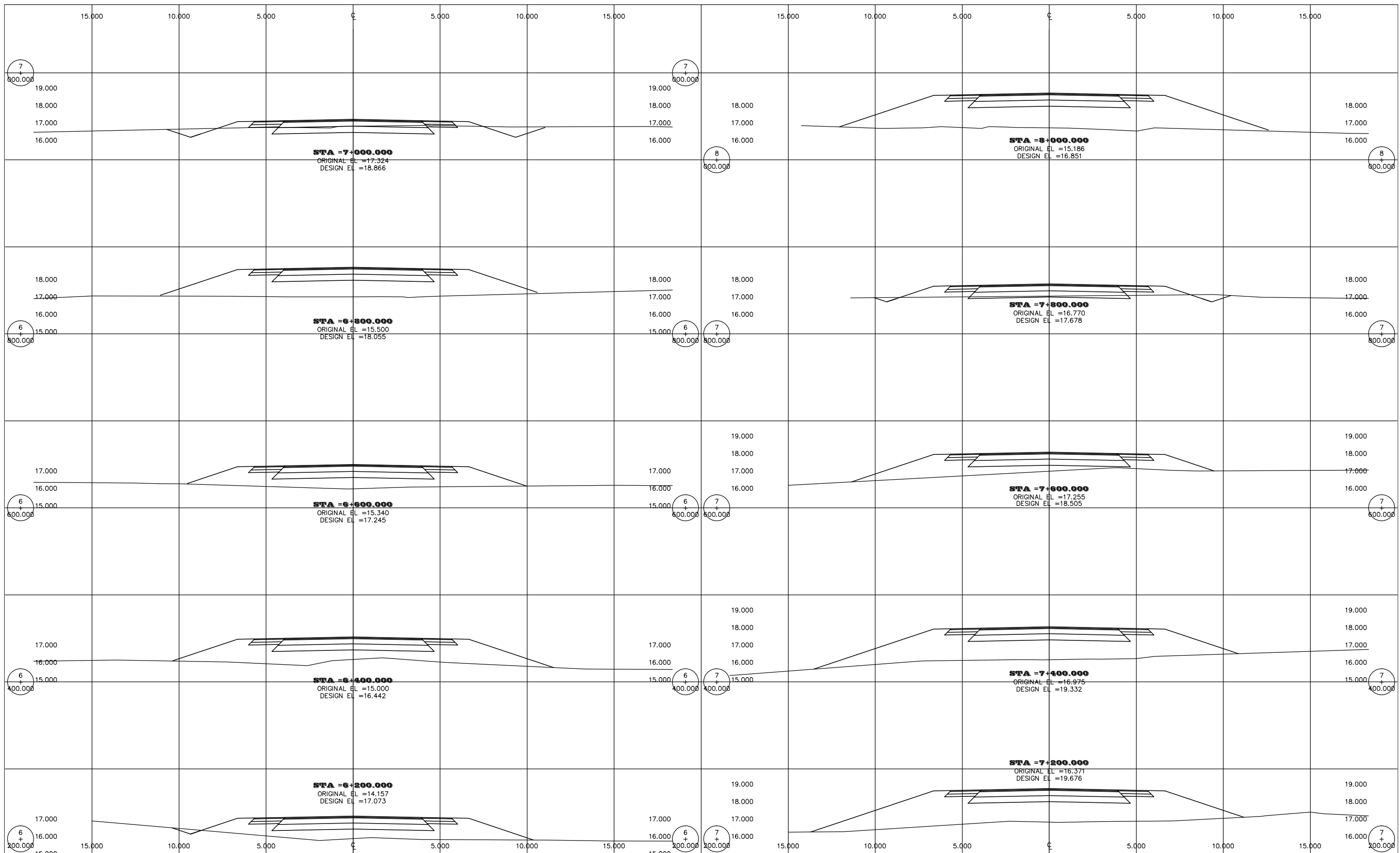
**Notes**

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**




Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Description:	<b>ASUTSUARE - AVEYIME CROSS SECTION (3/13)</b>	
	Scale : 1:200	Sheet 13/25



Designed by:	Signature:	<u>Revision</u>			
Checked by:	Signature:	<u>Notes</u>			
Drawn by:	Signature:				
		Rev. no:	Rev. by:	Date:	Sign:
				JAN. 2013	

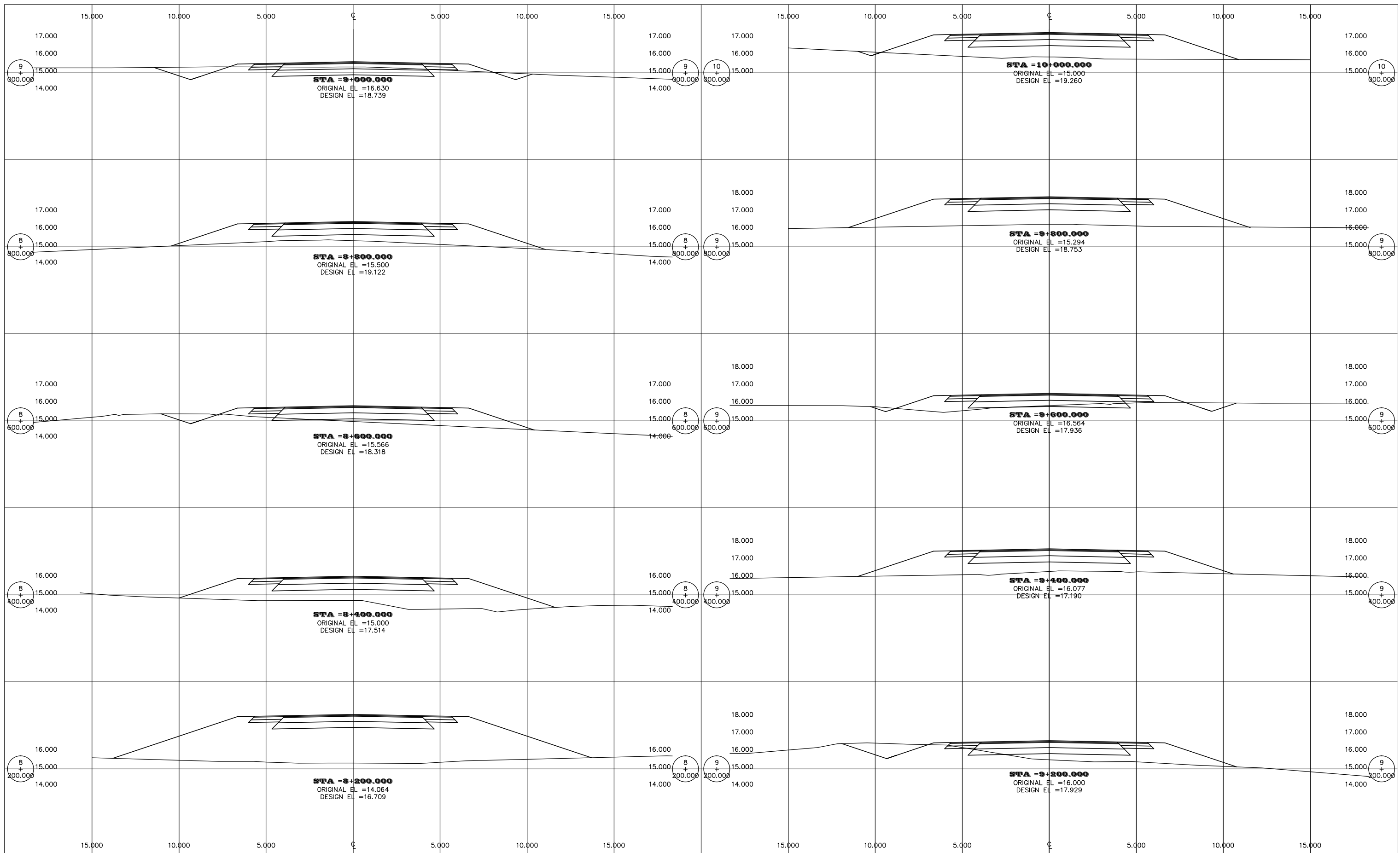
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE - AVEYIME CROSS SECTION (4/13)**

Scale : 1:200      Sheet 14/25




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

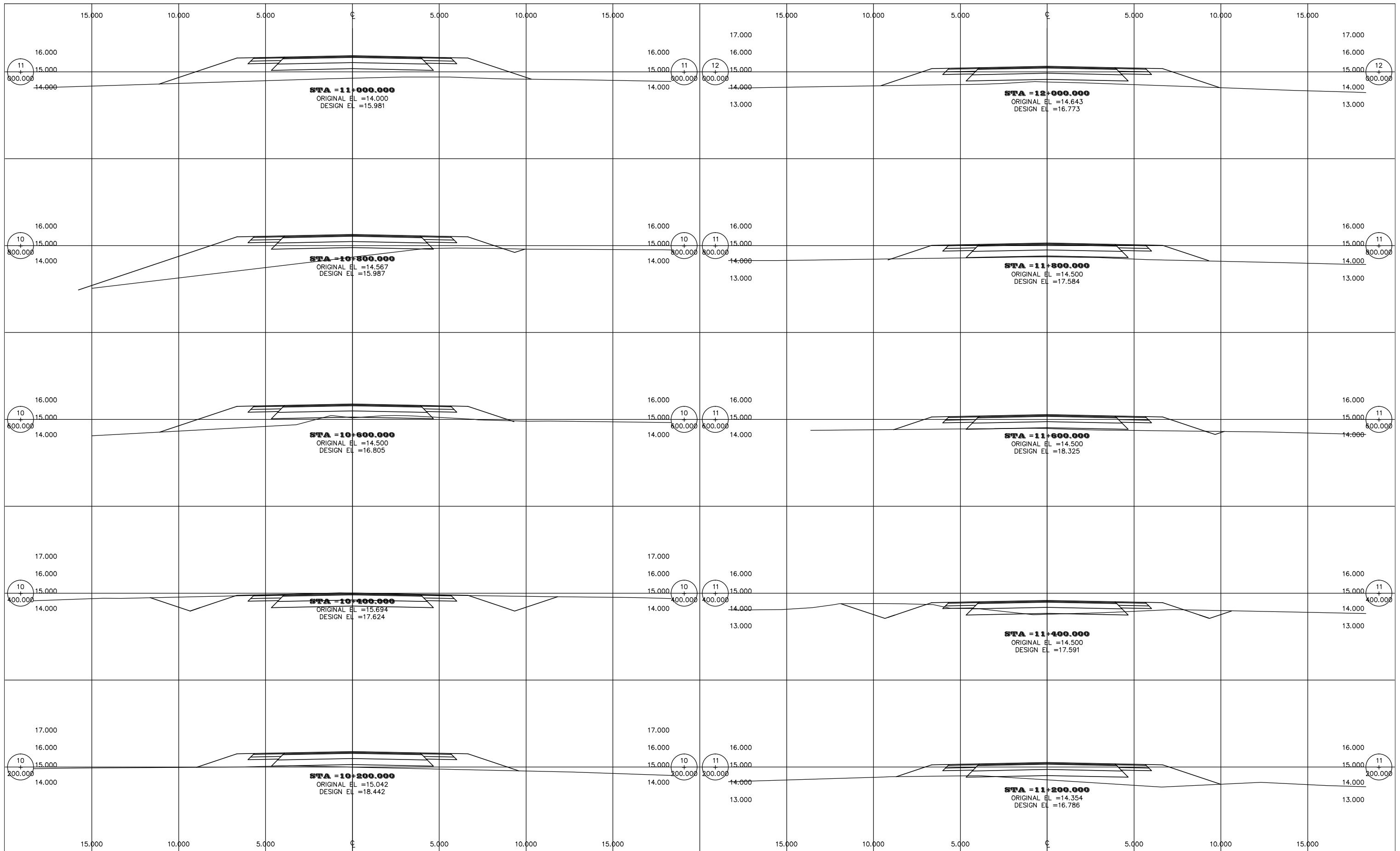
**Notes**

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Description:	<b>ASUTSUARE - AVEYIME CROSS SECTION (5/13)</b>	
	Scale : 1:200	Sheet 15/25




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

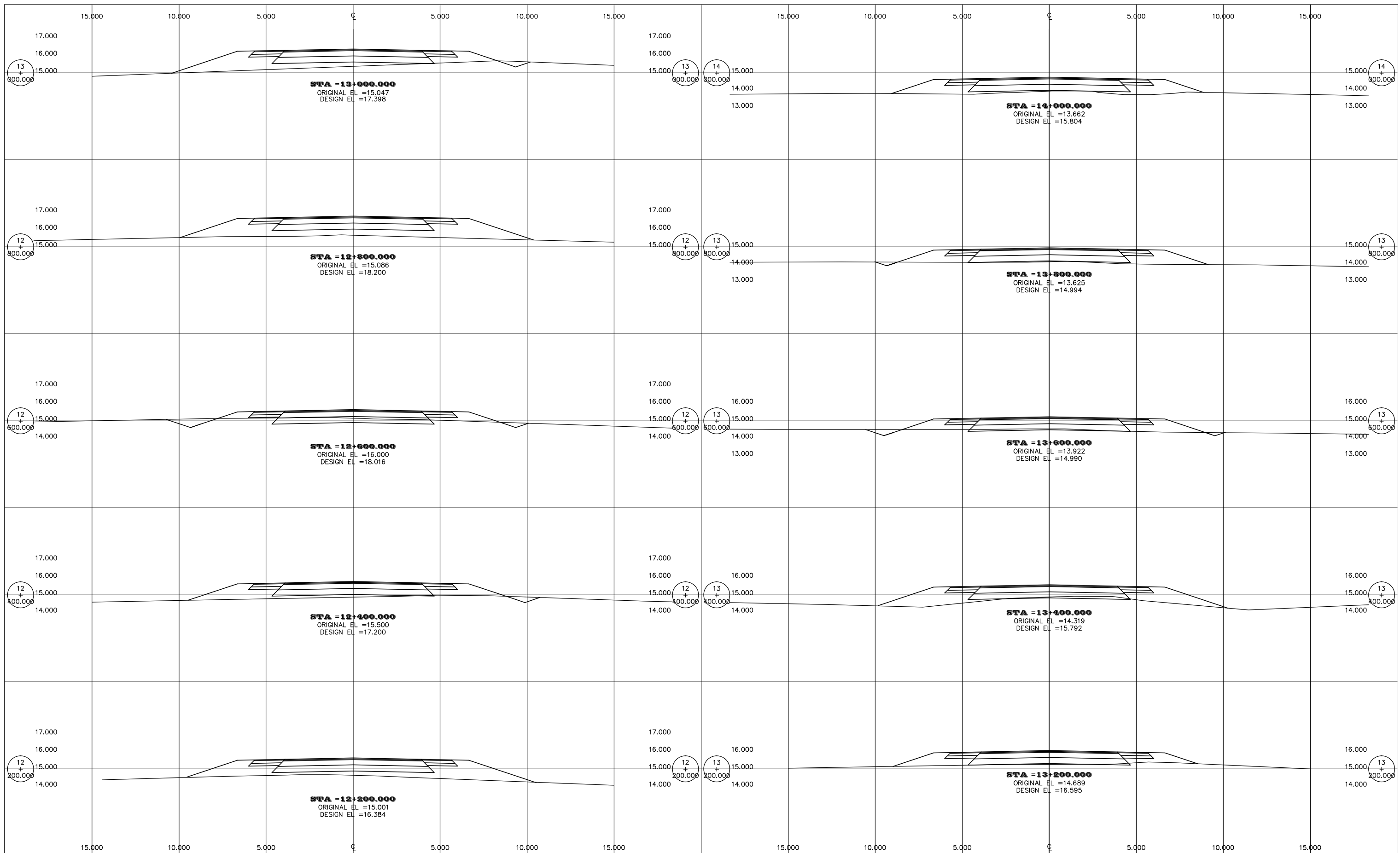
Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Description:	<b>ASUTSUARE - AVEYIME CROSS SECTION (6/13)</b>	
	Scale : 1:200	Sheet 16/25




Designed by:	Signature:	<u>Revision</u>			
Checked by:	Signature:				
Drawn by:	Signature:				
		Rev. no:	Rev. by:	Date:	Sign:
				JAN. 2013	

Notes

1. All dimensions are in metre.

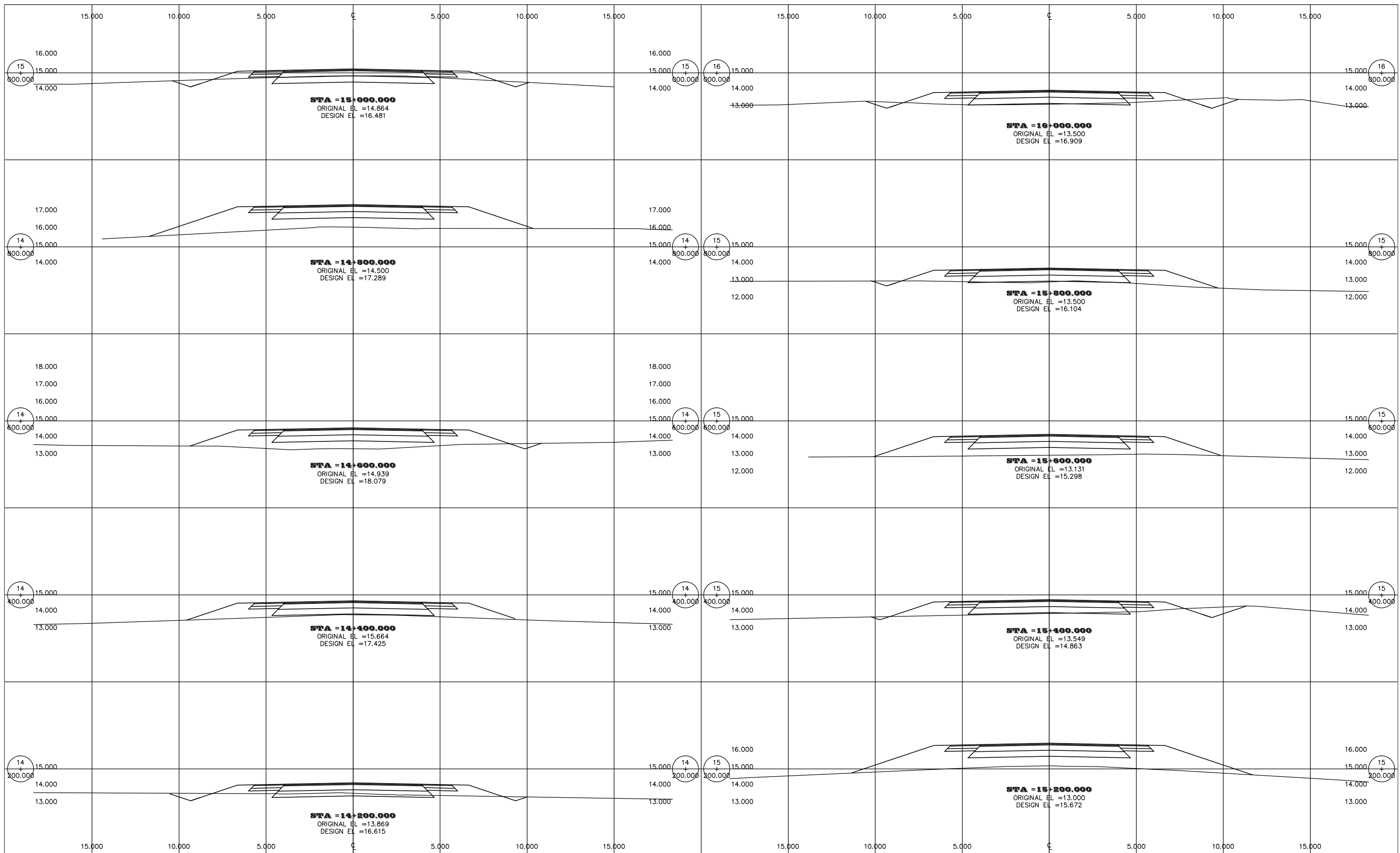
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE - AVEYIME CROSS SECTION (7/13)**

Scale : 1:200      Sheet 17/25






Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

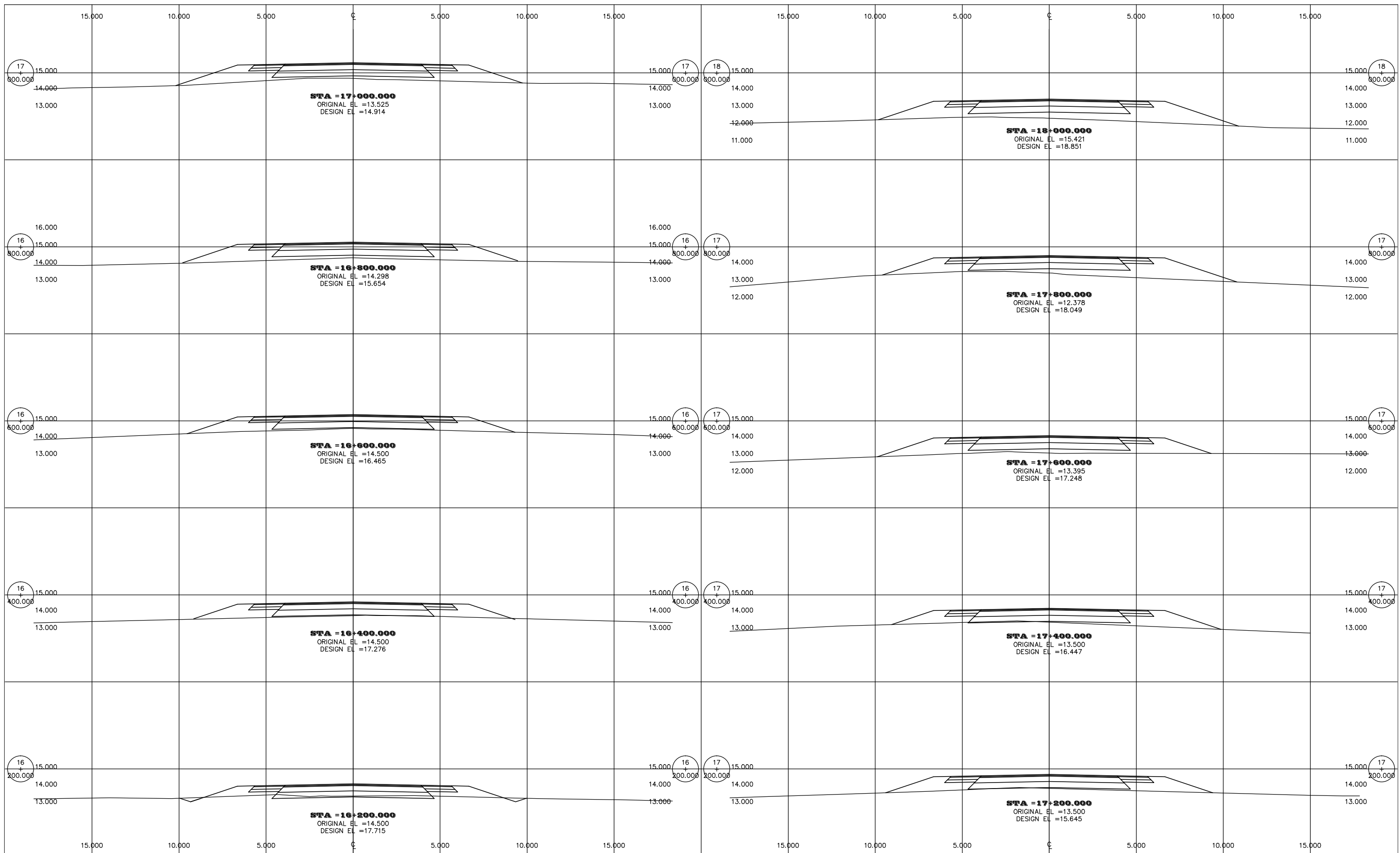
Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Description:	<b>ASUTSUARE - AVEYIME CROSS SECTION (8/13)</b>	
	Scale : 1:200	Sheet 18/25




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

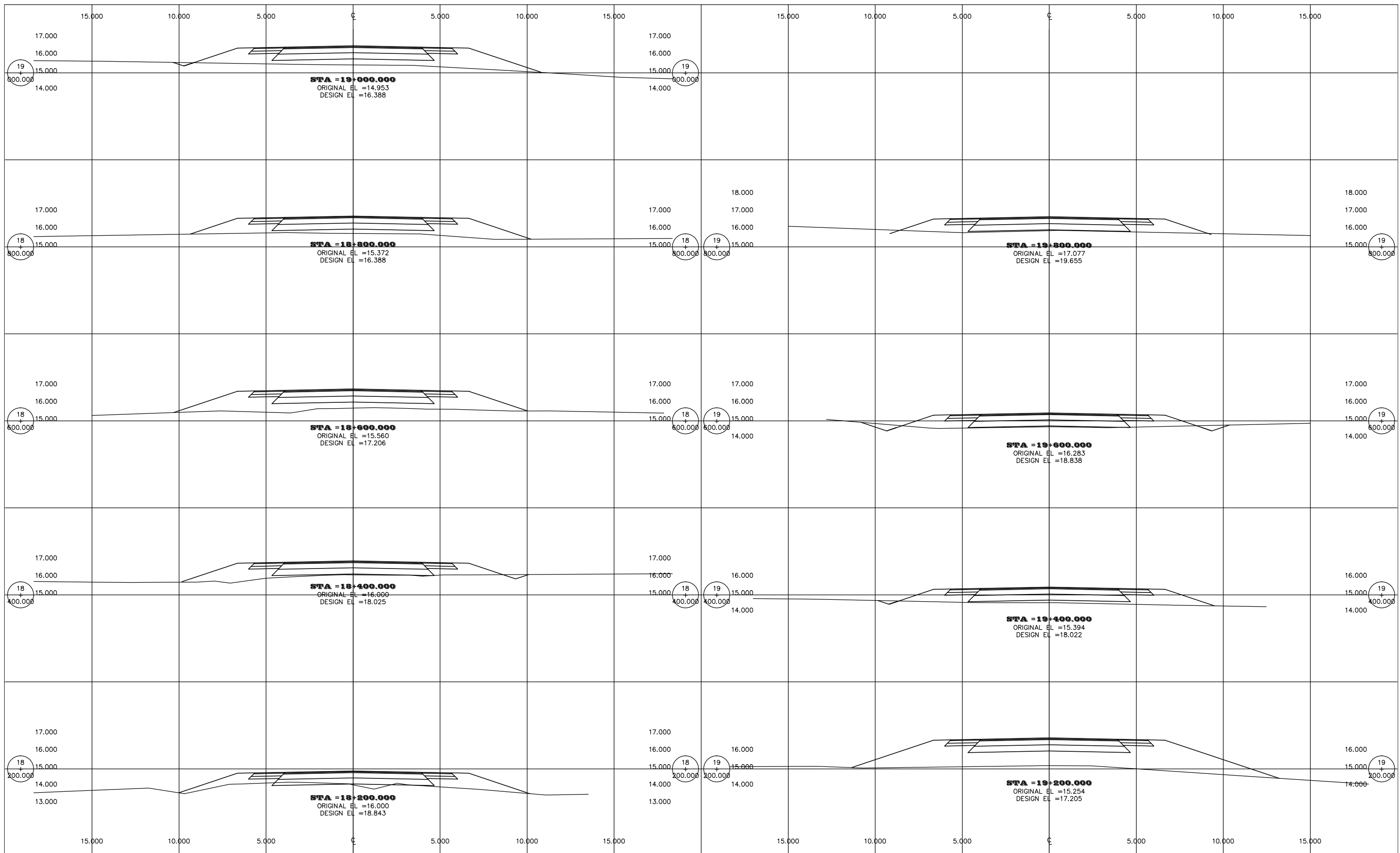
Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Description:	<b>ASUTSUARE - AVEYIME CROSS SECTION (9/13)</b>	
	Scale : 1:200	Sheet 19/25




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

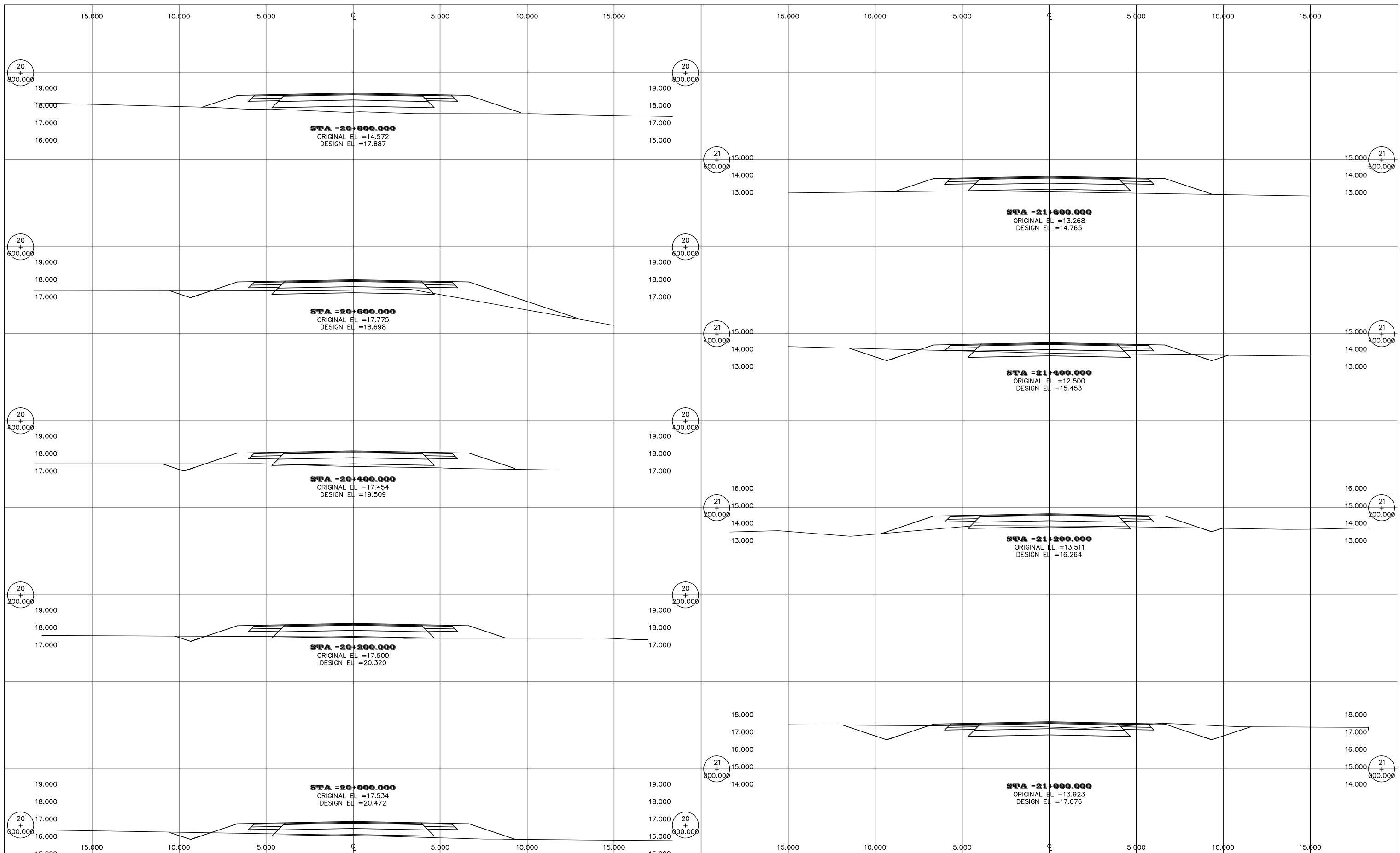
Notes

1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Description:	<b>ASUTSUARE - AVEYIME CROSS SECTION (10/13)</b>	
	Scale : 1:200	Sheet 20/25



Designed by: \_\_\_\_\_  
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Revision

Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes

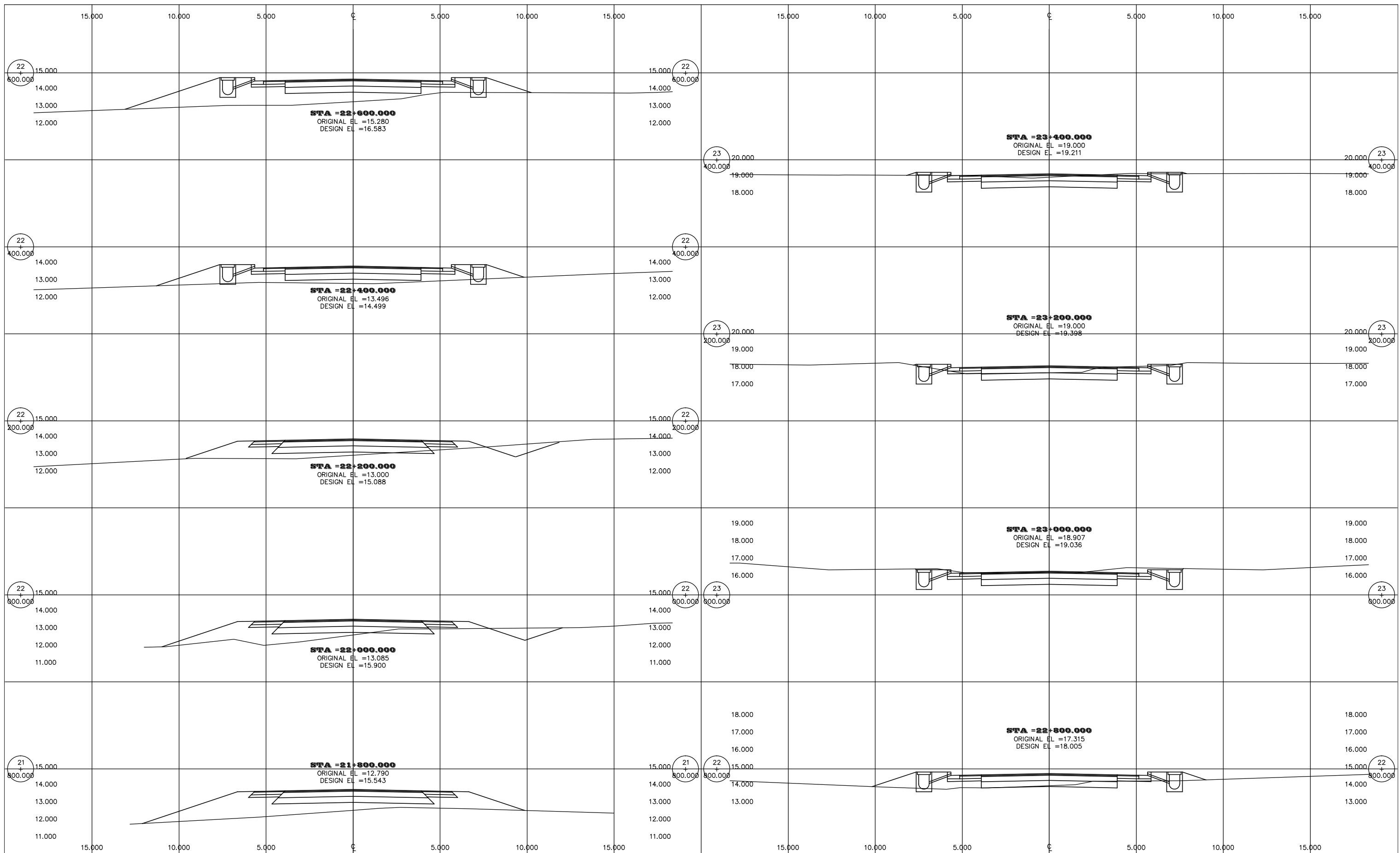
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE - AVEYIME CROSS SECTION (11/13)**

Scale : 1:200      Sheet 21/25




Designed by:	Signature:	<u>Revision</u>			
Checked by:	Signature:				
Drawn by:	Signature:				
		Rev. no:	Rev. by:	Date:	Sign:
				JAN. 2013	

Notes

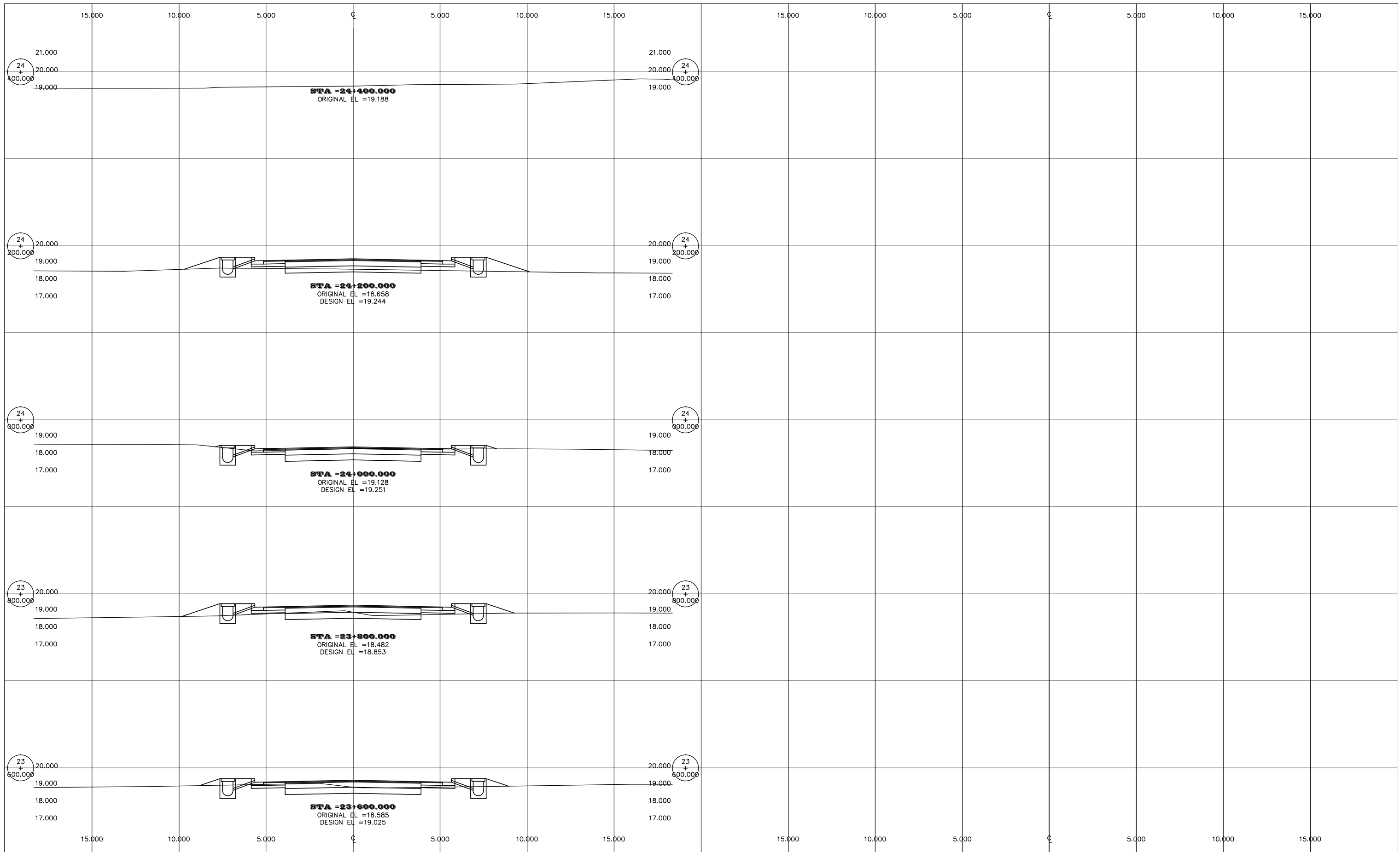
1. All dimensions are in metre.

**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



Project: **JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA**  
 Description: **ASUTSUARE - AVEYIME CROSS SECTION (12/13)**

Scale : 1:200      Sheet 22/25




Designed by:	Signature:
Checked by:	Signature:
Drawn by:	Signature:

Revision			
Rev. no:	Rev. by:	Date:	Sign:
		JAN. 2013	

Notes

1. All dimensions are in metre.

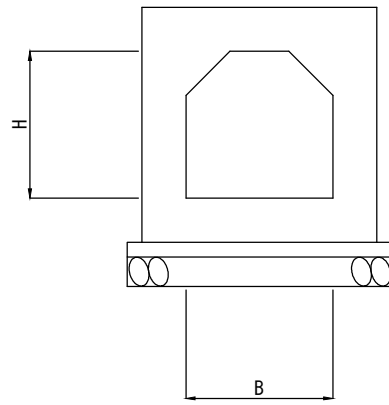
**REPUBLIC OF GHANA**  
**MINISTRY OF ROADS AND HIGHWAYS**  
**GHANA HIGHWAY AUTHORITY**



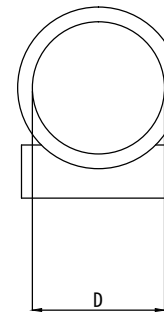
Project:	<b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>	
Description:	<b>ASUTSUARE - AVEYIME CROSS SECTION (13/13)</b>	
	Scale : 1:200	Sheet 23/25

### CULVERTS LOCATION

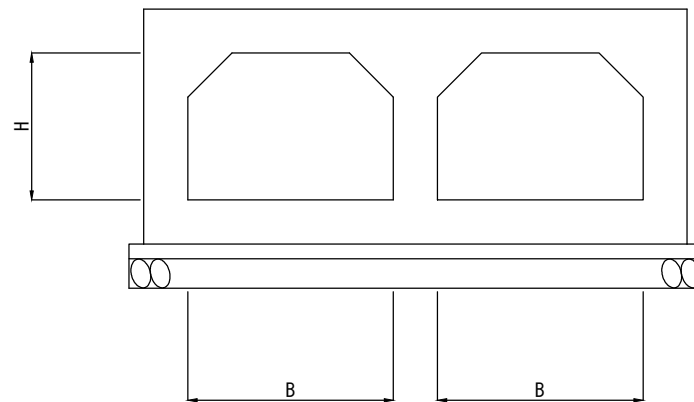
TYPE A



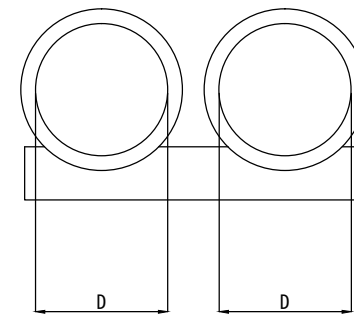
TYPE C



TYPE B



TYPE D




Asutsuare - Aveyime Road

	Station	Culvert Size	Remarks
1	No.0+520	Box 1 - B3.1 H2.3	Type A (Box)
2	No.1+747	Pipe 1 - D900	Type C (Pipe)
3	No.2+450	Pipe 1 - D900	Type C (Pipe)
4	No.3+540	Pipe 1 - D900	Type C (Pipe)
5	No.3+920	Pipe 1 - D900	Type C (Pipe)
6	No.6+550	Pipe 1 - D900	Type C (Pipe)
7	No.8+310	Pipe 1 - D900	Type C (Pipe)
8	No.8+950	Pipe 1 - D900	Type C (Pipe)
9	No.9+264	Pipe 1 - D900	Type C (Pipe)
10	No.9+350	Pipe 1 - D900	Type C (Pipe)
11	No.10+300	Pipe 1 - D900	Type C (Pipe)
12	No.14+850	Box 2 - B2.5 H3.3	Type B (Box)
13	No.15+405	Pipe 2 - D900	Type D (Pipe)
14	No.17+710	Pipe 2 - D1700	Type D (Pipe)
15	No.17+932	Pipe 2 - D900	Type D (Pipe)
16	No.18+750	Pipe 1 - D900	Type C (Pipe)
17	No.18+990	Box 1 - B1.0 H1.0	Type A (Box)
18	No.20+294	Box 1 - B1.0 H1.0	Type A (Box)
19	No.20+937	Box 1 - B1.0 H1.0	Type A (Box)
20	No.21+350	Box 1 - B1.0 H1.0	Type A (Box)
21	No.21+658	Box 1 - B1.0 H1.0	Type A (Box)
22	No.22+174	Box 1 - B1.0 H1.0	Type A (Box)
23	No.22+281	Box 1 - B1.0 H1.0	Type A (Box)

Note

Dimensions of Box Culvert are in meters

Dimensions of Pipe Culvert are in millimeters

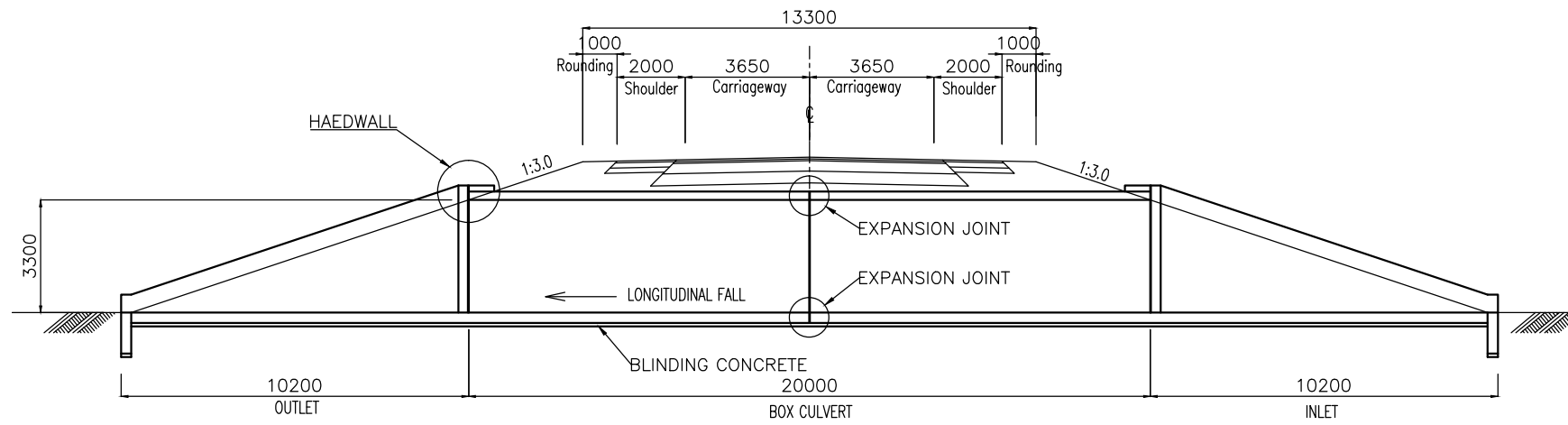
Designed by:	Signature:	<u>Revision</u>				<u>Notes</u> 1. All dimensions are in mm.	REPUBLIC OF GHANA MINISTRY OF ROADS AND HIGHWAYS GHANA HIGHWAY AUTHORITY 	Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b>
Checked by:	Signature:							Description: <b>ASUTSUARE-AVEYIME CULVERTS LOCATION</b>
Drawn by:	Signature:	Rev. no:	Rev. by:	Date: JAN. 2013	Sign:			Scale :NTS

# GENERAL PLAN OF BOX CULVERT ACROSS LUPE RIVER

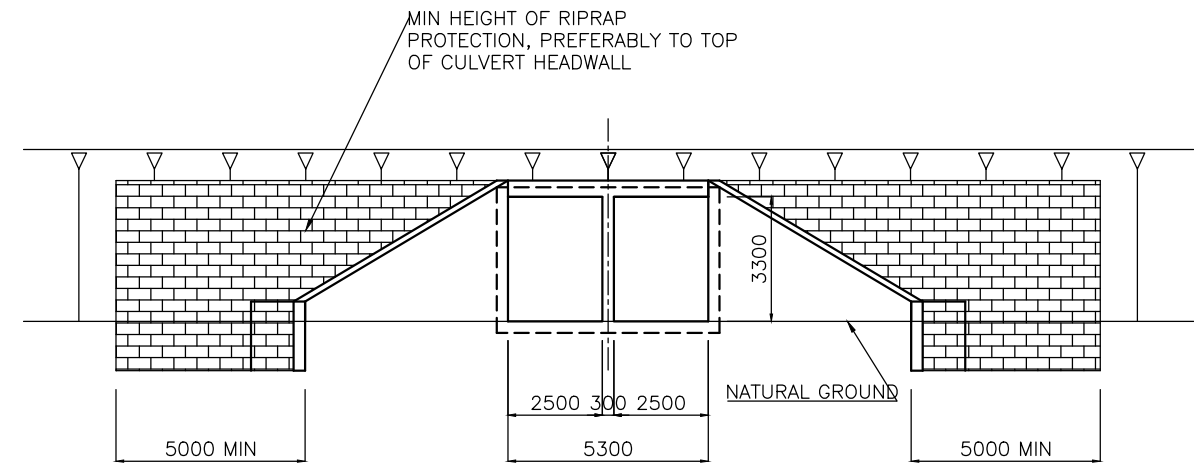
(B2.50 X H3.30 @2)

S=1:200

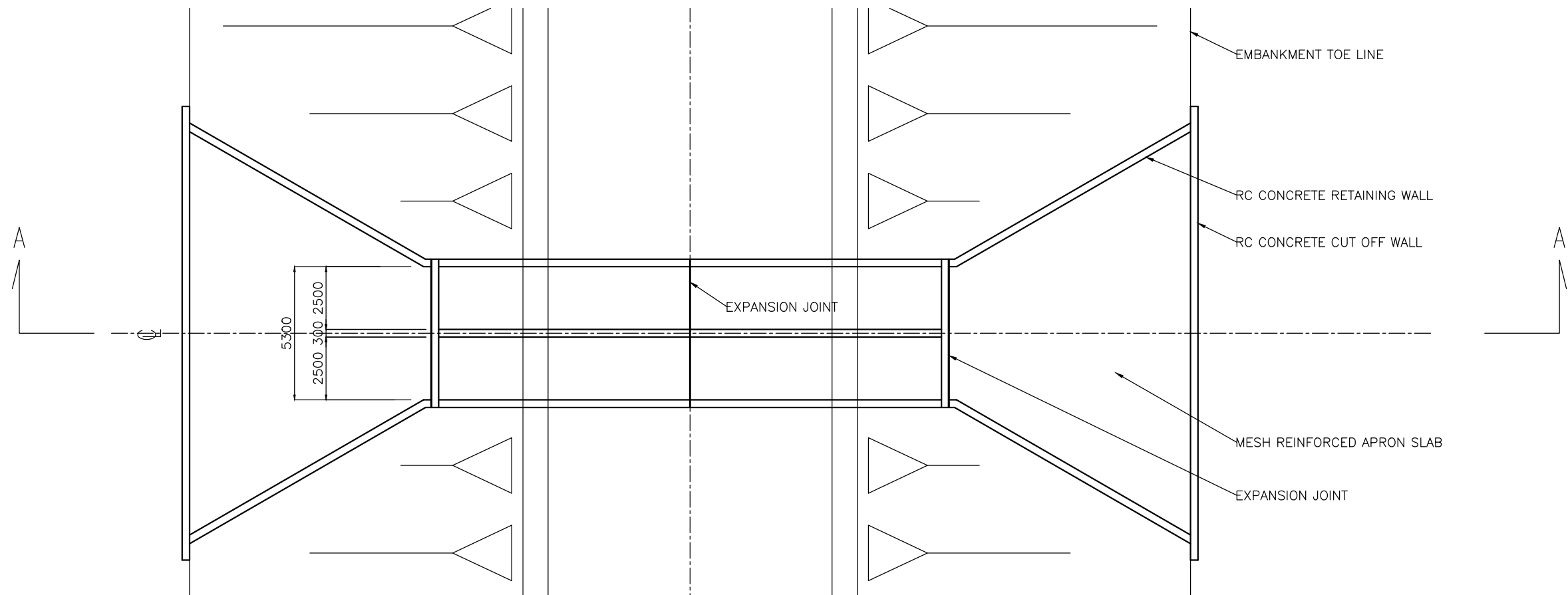
## SECTION A-A



## INLET DETAIL



## PLAN



Designed by:	Signature:	<u>Revision</u>				<u>Notes</u>		Project: <b>JICA PREPARATORY SURVEY ON EASTERN CORRIDOR DEVELOPMENT PROJECT IN THE REPUBLIC OF GHANA</b> 	Description: <b>GENERAL PLAN OF BOX CULVERT ACROSS LUPE RIVER</b>			
Checked by:	Signature:					1. All dimensions are in millimetre.					REPUBLIC OF GHANA MINISTRY OF ROADS AND HIGHWAYS GHANA HIGHWAY AUTHORITY REPUBLIC OF GHANA	
Drawn by:	Signature:											
				JAN. 2013								