

## **ANNEXES- 8**

### **DESSIN ET SCHEMA DE LA CONCEPTION SOMMAIRE**

The Project  
for  
Upgrading of National Road Route 1  
in the Republic of Djibouti

REFERENCE DRAWING

November-18



 YACHIYO ENGINEERING CO., LTD.

# DRAWING LIST

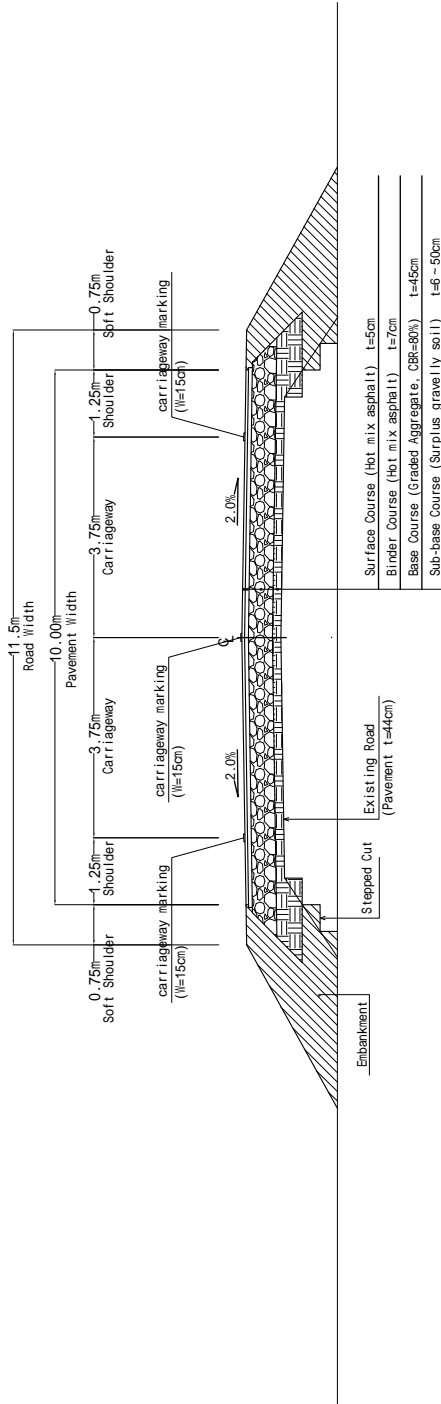
No.	DRAWING TITLE
1	LOCATION MAP
2 • 3	TYPICAL CROSS SECTION (1), (2)
4 ~ 19	PLAN & PROFILE (1) ~ (16)
20 ~ 123	CROSS SECTION (1) ~ (104)
124 • 125	STANDARD DRAWING OF BOX CULVERT (1), (2)
126	GENERAL DRAWING OF BOX CULVERT(Box-36 at PK213+843)
127	STANDARD DRAWING OF GAURDRAIL
128	STANDARD DRAWING OF FOOT STRUCTURE OF SLOPE
129	STANDARD DRAWING OF PK POST

# LOCATION MAP

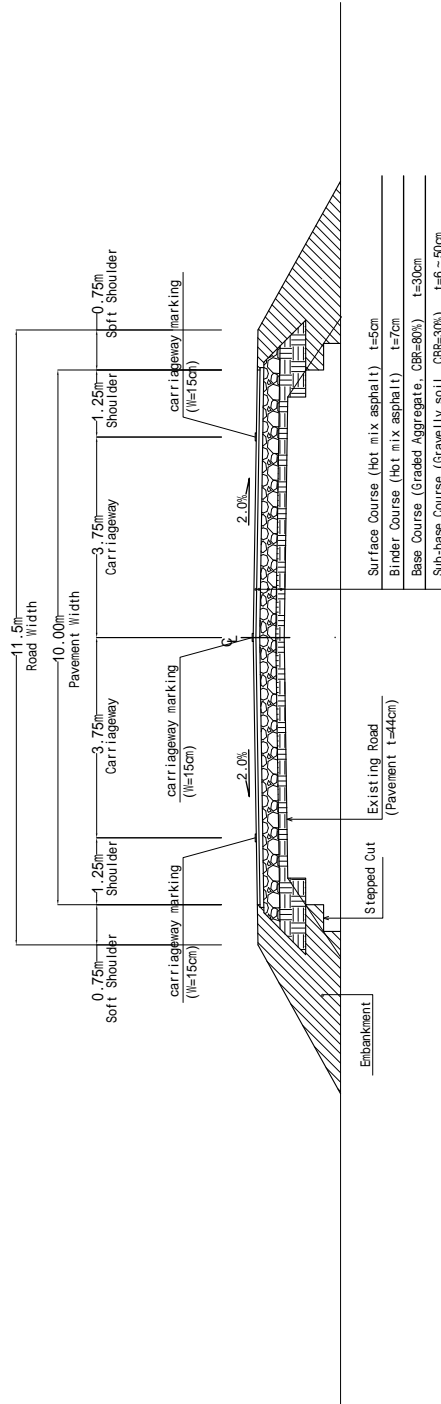


 REPUBLIQUE DE DJIBOUTI MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT	 JAPAN INTERNATIONAL COOPERATION AGENCY YACHIYO ENGINEERING CO., LTD.	THE PREPARATORY SURVEY FOR THE PROJECT FOR UPGRADING OF NATIONAL ROAD ROUTE 1 IN THE REPUBLIC OF DJIBOUTI		SHEET CONTENTS LOCATION MAP	SCALE S=1:60,000
		DATE NOV 2018	PAGE NO. /		



# TYPICAL CROSS SECTION S=1:100



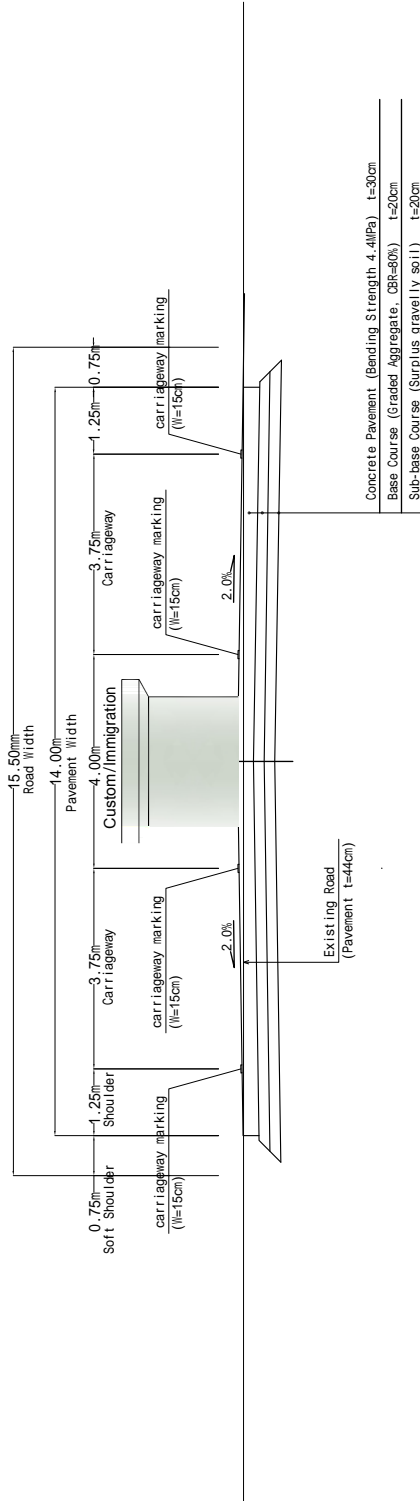
Type 1: Section of PK200 ~ PK 210



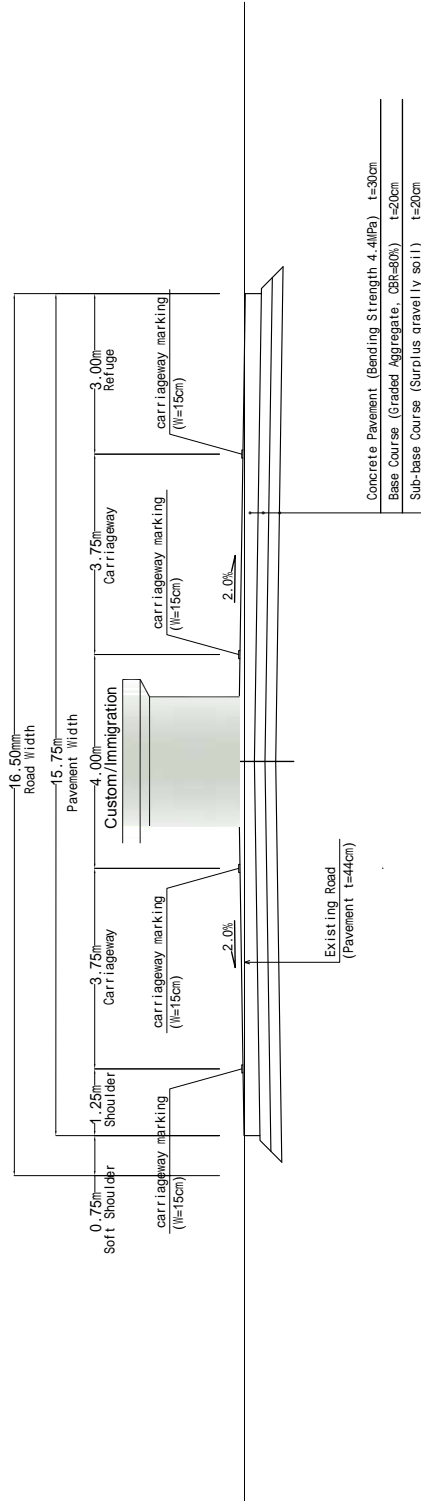
Type 2: Section of BP ~ PK 200, PK210 ~ EP

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		DATE NOV 2018	PAGE NO. 1 / 131		



# TYPICAL CROSS SECTION S=1:100



Type 3: Section of PK215+890 ~ PK 216+305

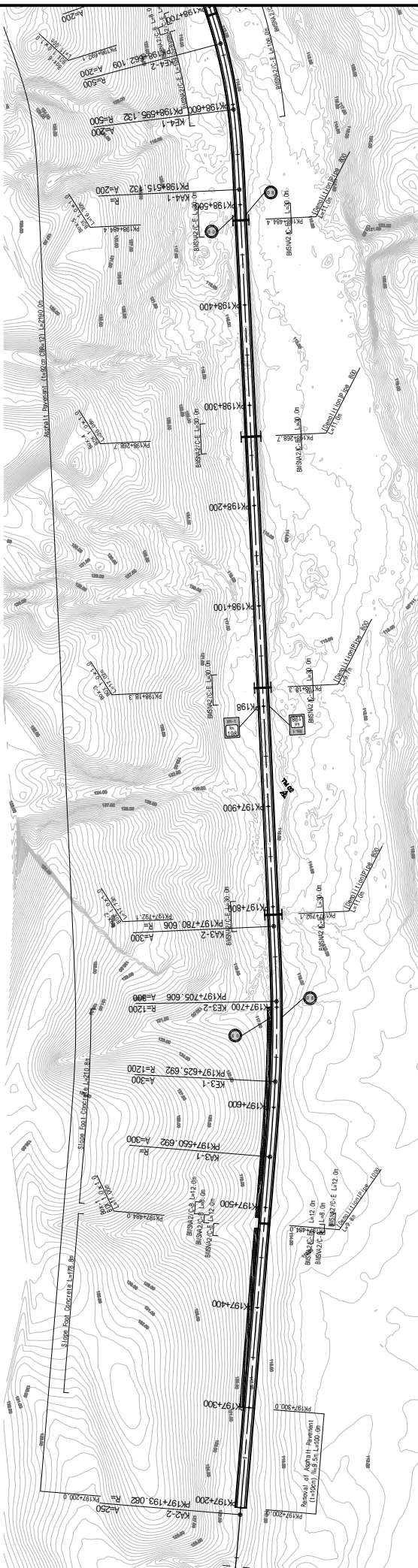


Type 4: Section of PK216+144 ~ PK216+206

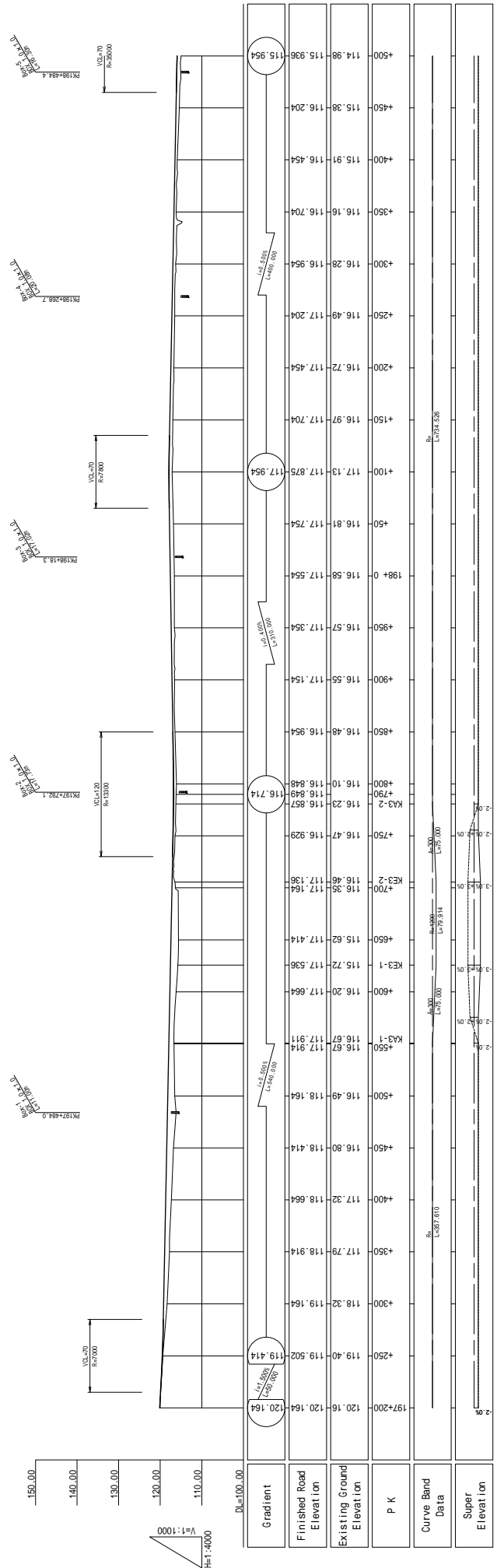
 REPUBLIQUE DE DJIBOUTI MINISTERE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT	 JAPAN INTERNATIONAL COOPERATION AGENCY YACHIO ENGINEERING CO., LTD.	THE PREPARATORY SURVEY FOR THE PROJECT FOR UPGRADING OF NATIONAL ROAD ROUTE 1 IN THE REPUBLIC OF DJIBOUTI	SHEET CONTENTS	
			TYPICAL CROSS SECTION 2/2	
			SCALE	S=1:100
			DATE	NOV 2018
			PAGE NO.	2 / 131

# PLAN & PROFILE

PLAN S=1:4000

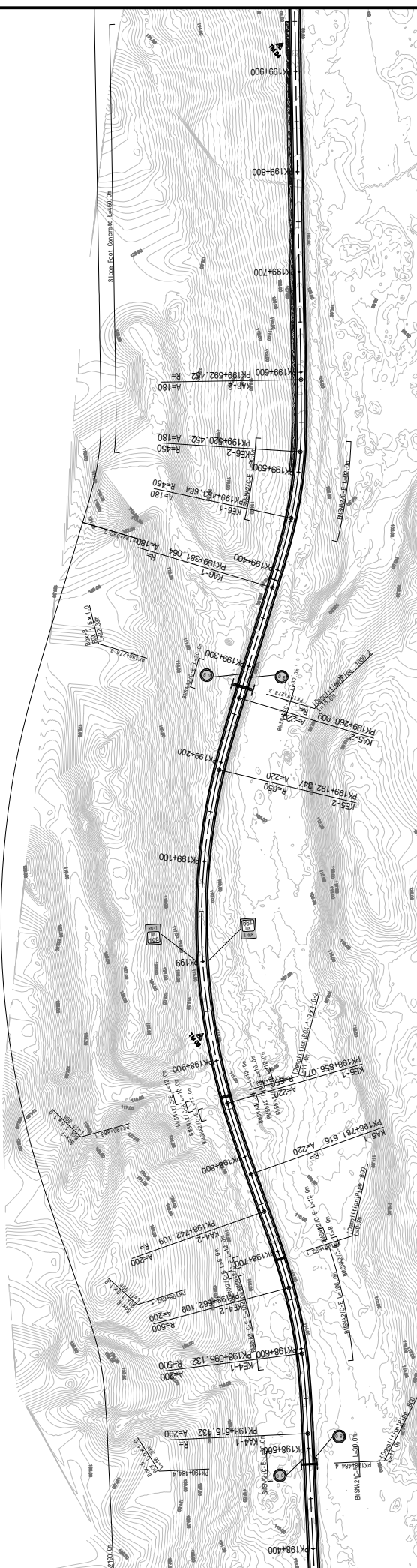


PROFILE V=1:1000 H=1:4000

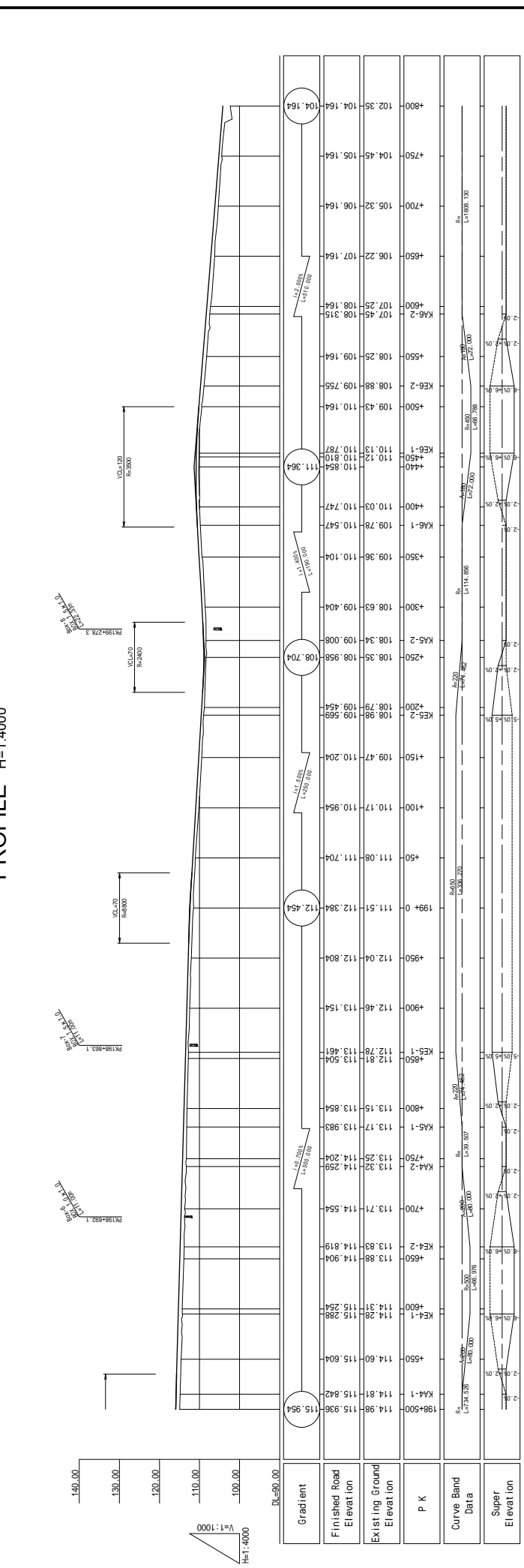


# PLAN & PROFILE


PLAN S=1:4000




PROFILE V=1:1000  
H=1:4000



Gradient	Finished Road Elevation	Existing Ground Elevation	P K	Curve Band Data	Super Elevation
115.954	114.98	115.936	198+500	R=127.58, L=100.00	
114.81	114.81	115.842	KA4-1	R=127.58, L=100.00	
114.604	114.604	115.604	+550		
114.29	114.29	115.298	KE4-1	R=127.58, L=100.00	
114.31	114.31	115.254	+600		
113.88	113.88	114.904	KE4-2	R=127.58, L=100.00	
113.83	113.83	114.819	+650		
113.71	113.71	114.554	KA4-2	R=127.58, L=100.00	
113.32	113.32	114.259	+750		
113.25	113.25	114.204	KA5-1	R=127.58, L=100.00	
113.15	113.15	113.854	+800		
113.17	113.17	113.983	KA5-1	R=127.58, L=100.00	
112.46	112.46	113.154	+900		
112.04	112.04	112.804	+950		
111.51	111.51	112.384	199+0		
111.08	111.08	111.704	+50		
110.17	110.17	110.954	+100		
109.47	109.47	110.204	+150		
108.79	108.79	109.569	KE5-2	R=127.58, L=100.00	
108.98	108.98	109.569	+200		
108.35	108.35	108.958	KA5-2	R=127.58, L=100.00	
108.34	108.34	109.008	+250		
108.63	108.63	109.404	+300		
109.36	109.36	110.104	+350		
109.78	109.78	110.547	KA6-1	R=127.58, L=100.00	
110.03	110.03	110.747	+400		
110.854	110.854	110.810	KE6-1	R=127.58, L=100.00	
110.13	110.13	110.787	+450		
111.03	111.03	110.810	KE6-1	R=127.58, L=100.00	
110.25	110.25	109.164	+500		
108.88	108.88	109.755	KE6-2	R=127.58, L=100.00	
108.25	108.25	109.164	+550		
107.45	107.45	108.315	KA6-2	R=127.58, L=100.00	
107.25	107.25	108.315	+600		
106.22	106.22	107.164	+650		
105.32	105.32	106.164	+700		
104.45	104.45	105.164	+750		
102.35	102.35	104.164	+800		
104.164	104.164				


**REPUBLIQUE DE DJIBOUTI**  
**MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS**  
**DIRECTION DE L'EQUIPEMENT**


**JAPAN INTERNATIONAL COOPERATION AGENCY**  
**YACHIYO ENGINEERING CO., LTD.**

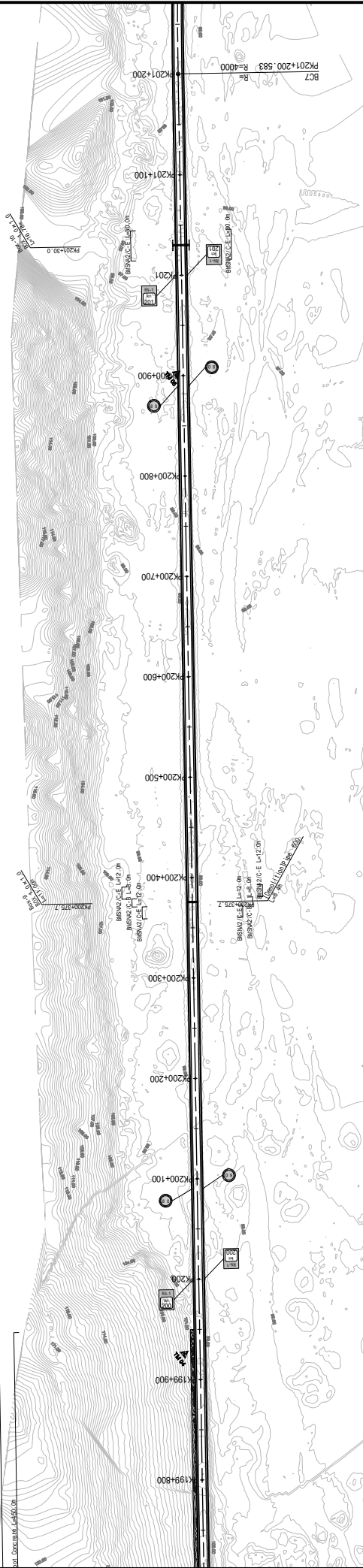
**SHEET CONTENTS**  
**PLAN & PROFILE**  
**PK198+500 ~ PK199+800**

**SCALE** V=1:1000, H=1:4000  
**DATE** NOV 2018  
**PAGE NO.** 4 / 131

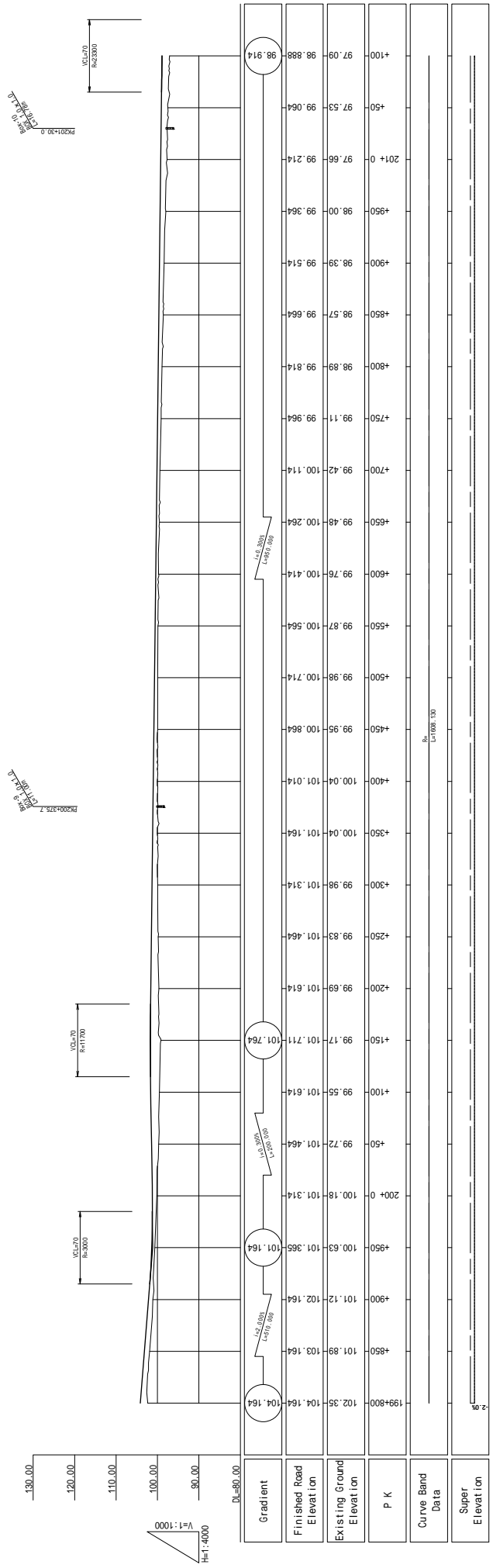


# PLAN & PROFILE

PLAN S=1:4000



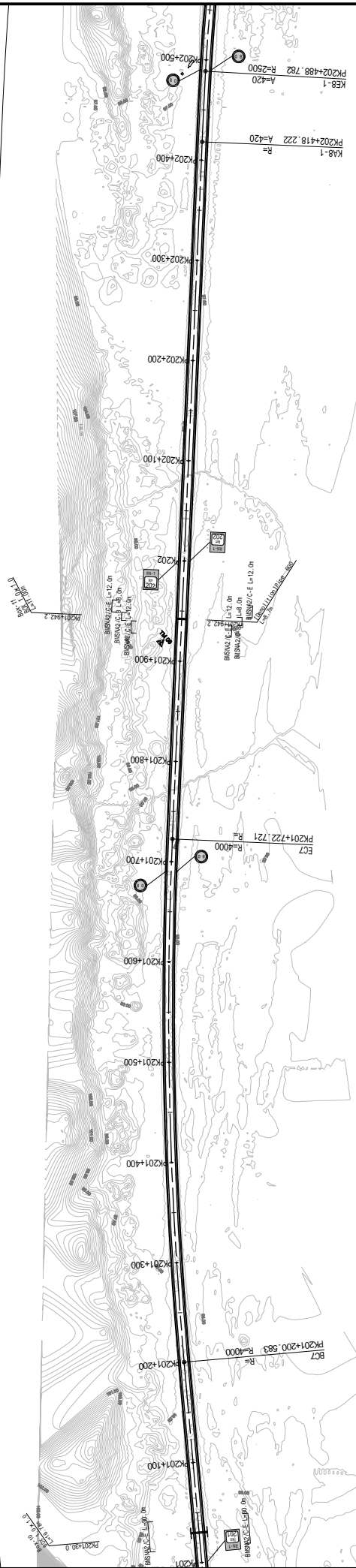
PROFILE V=1:1000 H=1:4000



<p>REPUBLIQUE DE DJIBOUTI MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT</p>	<p>JAPAN INTERNATIONAL COOPERATION AGENCY YACHIYO ENGINEERING CO., LTD.</p>	SHEET CONTENTS PLAN & PROFILE PK199+800 ~ PK201+100		SCALE V=1:1000, H=1:4000
		THE PREPARATORY SURVEY FOR THE PROJECT FOR UPGRADING OF NATIONAL ROAD ROUTE 1 IN THE REPUBLIC OF DJIBOUTI		DATE NOV 2018
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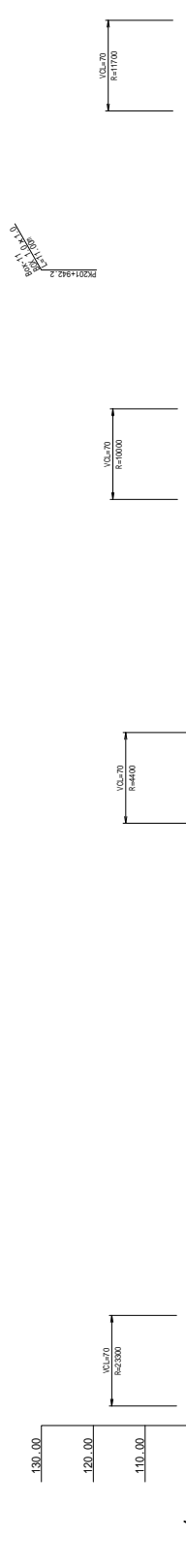
# PLAN & PROFILE

PLAN S=1:4000



# PROFILE

V=1:1000  
H=1:4000



Gradient	Finished Road Elevation	Existing Ground Elevation	P K	Curve Band Data	Super Elevation
0.00%	98.914	97.09	201+100	R=1000.100 L=622.738	
	98.888	97.09	201+100		
	98.614	96.94	+150		
	98.314	96.96	+200		
	98.311	96.96	BC7		
	97.01	96.314	+200		
	96.96	96.311	BC7		
	96.65	97.114	+400		
	96.65	96.814	+450		
	96.51	96.514	+500		
	96.60	96.354	+550		
	96.214	96.214	+600		
	95.57	96.714	+600		
	95.96	97.214	+650		
	97.214	97.214	+650		
	96.29	97.714	+700		
	96.50	97.941	EC7		
	96.62	96.214	+750		
	97.80	96.653	+800		
	98.02	96.864	+850		
	98.15	96.014	+900		
	98.30	96.164	+950		
	98.46	96.314	202+0		
	98.72	96.464	+50		
	97.74	96.561	+100		
	97.56	96.464	+150		
	97.65	96.314	+200		
	97.58	96.164	+250		
	97.59	96.014	+300		
	97.67	96.864	+350		
	98.714	98.714	+400		

REPUBLIQUE DE DJIBOUTI  
MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS  
DIRECTION DE L'EQUIPEMENT

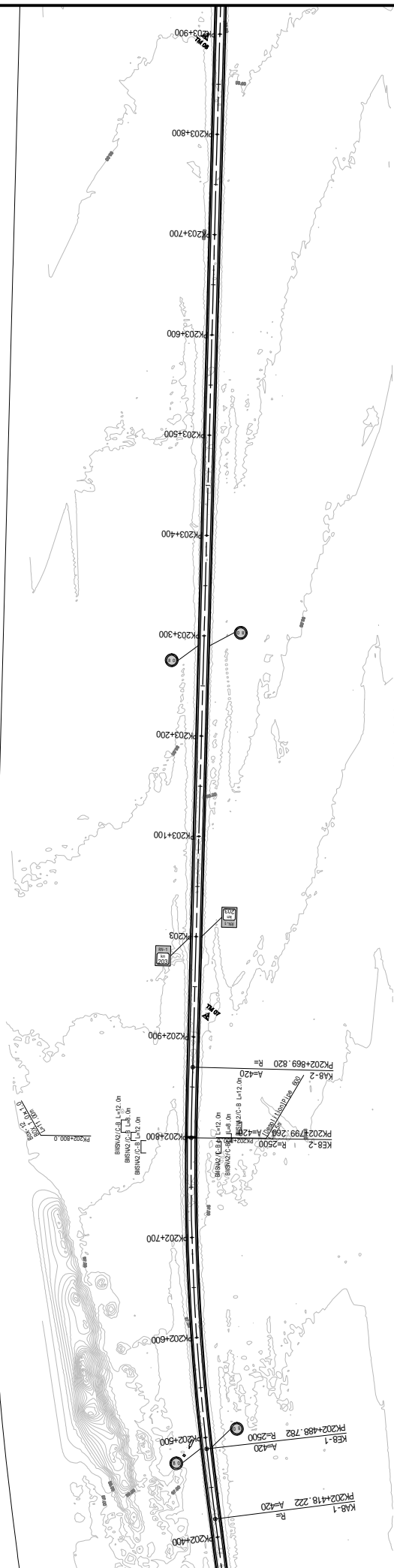
JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

SHEET CONTENTS  
PLAN & PROFILE  
PK201+100 - PK202+400

SCALE V=1:1000, H=1:4000  
DATE NOV 2018  
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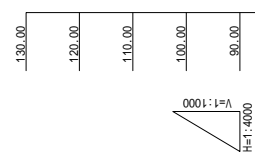
# PLAN & PROFILE

PLAN S=1:4000





# PROFILE

V=1:1000  
H=1:4000

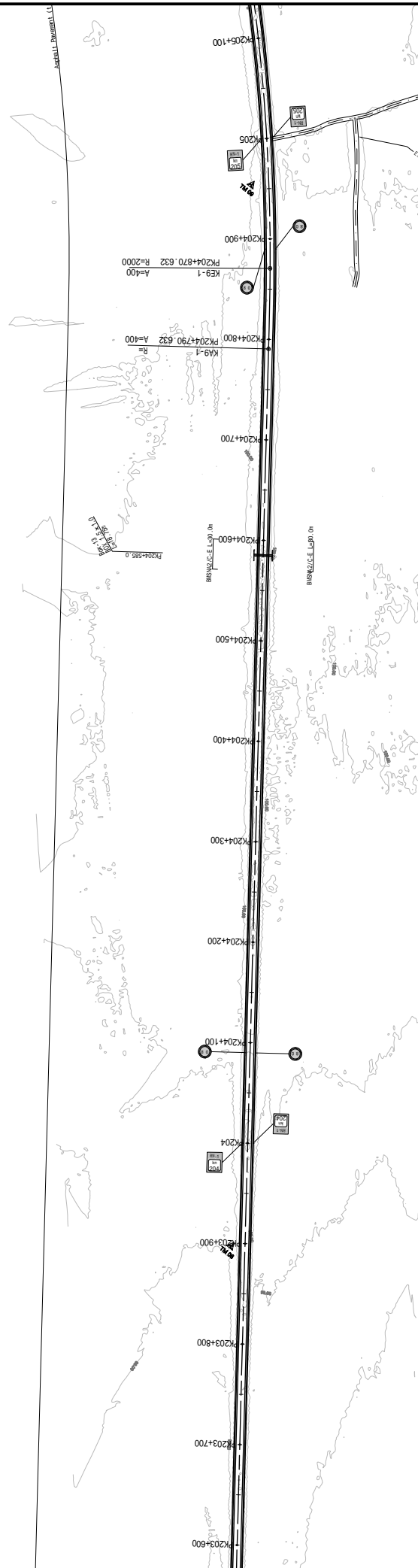


Gradient	Finished Road Elevation	Existing Ground Elevation	P K	Curve Band Data	Super Elevation
98.414	97.63	98.472	202+400	KA8-1	97.67
98.472	97.63	98.472	+500	KA8-1	97.64
98.472	97.63	98.472	+450	KA8-1	97.64
98.472	97.63	98.472	+400	KA8-1	97.64
98.472	97.63	98.472	+350	KA8-1	97.64
98.472	97.63	98.472	+300	KA8-1	97.64
98.472	97.63	98.472	+250	KA8-1	97.64
98.472	97.63	98.472	+200	KA8-1	97.64
98.472	97.63	98.472	+150	KA8-1	97.64
98.472	97.63	98.472	+100	KA8-1	97.64
98.472	97.63	98.472	+50	KA8-1	97.64
98.472	97.63	98.472	0	KA8-1	97.64
98.472	97.63	98.472	-50	KA8-1	97.64
98.472	97.63	98.472	-100	KA8-1	97.64
98.472	97.63	98.472	-150	KA8-1	97.64
98.472	97.63	98.472	-200	KA8-1	97.64
98.472	97.63	98.472	-250	KA8-1	97.64
98.472	97.63	98.472	-300	KA8-1	97.64
98.472	97.63	98.472	-350	KA8-1	97.64
98.472	97.63	98.472	-400	KA8-1	97.64
98.472	97.63	98.472	-450	KA8-1	97.64
98.472	97.63	98.472	-500	KA8-1	97.64
98.472	97.63	98.472	-550	KA8-1	97.64
98.472	97.63	98.472	-600	KA8-1	97.64
98.472	97.63	98.472	-650	KA8-1	97.64
98.472	97.63	98.472	-700	KA8-1	97.64
98.472	97.63	98.472	-750	KA8-1	97.64
98.472	97.63	98.472	-800	KA8-1	97.64
98.472	97.63	98.472	-850	KA8-1	97.64
98.472	97.63	98.472	-900	KA8-1	97.64
98.472	97.63	98.472	-950	KA8-1	97.64
98.472	97.63	98.472	-1000	KA8-1	97.64
98.472	97.63	98.472	-1050	KA8-1	97.64
98.472	97.63	98.472	-1100	KA8-1	97.64
98.472	97.63	98.472	-1150	KA8-1	97.64
98.472	97.63	98.472	-1200	KA8-1	97.64
98.472	97.63	98.472	-1250	KA8-1	97.64
98.472	97.63	98.472	-1300	KA8-1	97.64

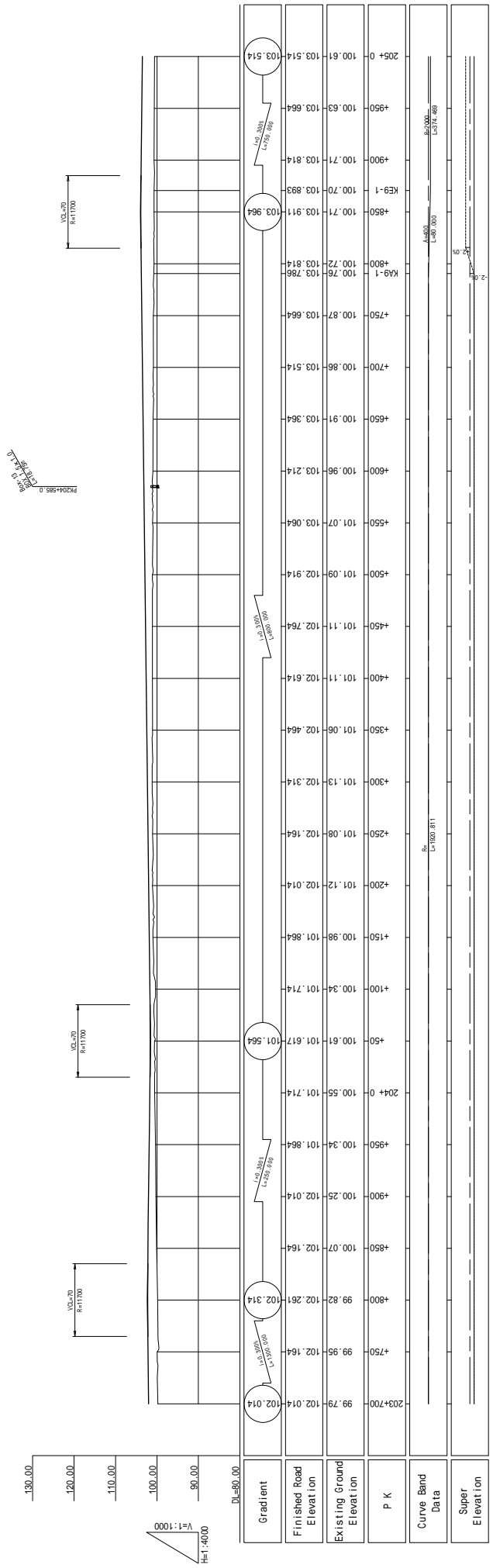
 <p>REPUBLIQUE DE DJIBOUTI MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT</p>	 <p>JAPAN INTERNATIONAL COOPERATION AGENCY YACHIYO ENGINEERING CO., LTD.</p>	SHEET CONTENTS PLAN & PROFILE PK202+400 - PK203+700		SCALE V=1:1000, H=1:4000
		THE PREPARATORY SURVEY FOR THE PROJECT FOR UPGRADING OF NATIONAL ROAD ROUTE 1 IN THE REPUBLIC OF DJIBOUTI		DATE NOV 2018


# PLAN & PROFILE

PLAN S=1:4000



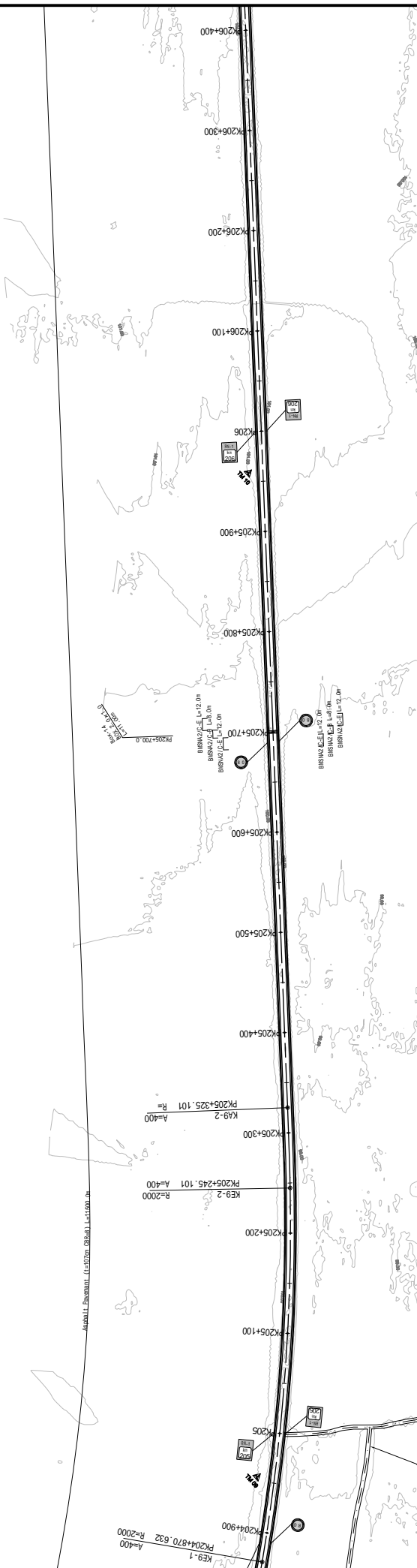
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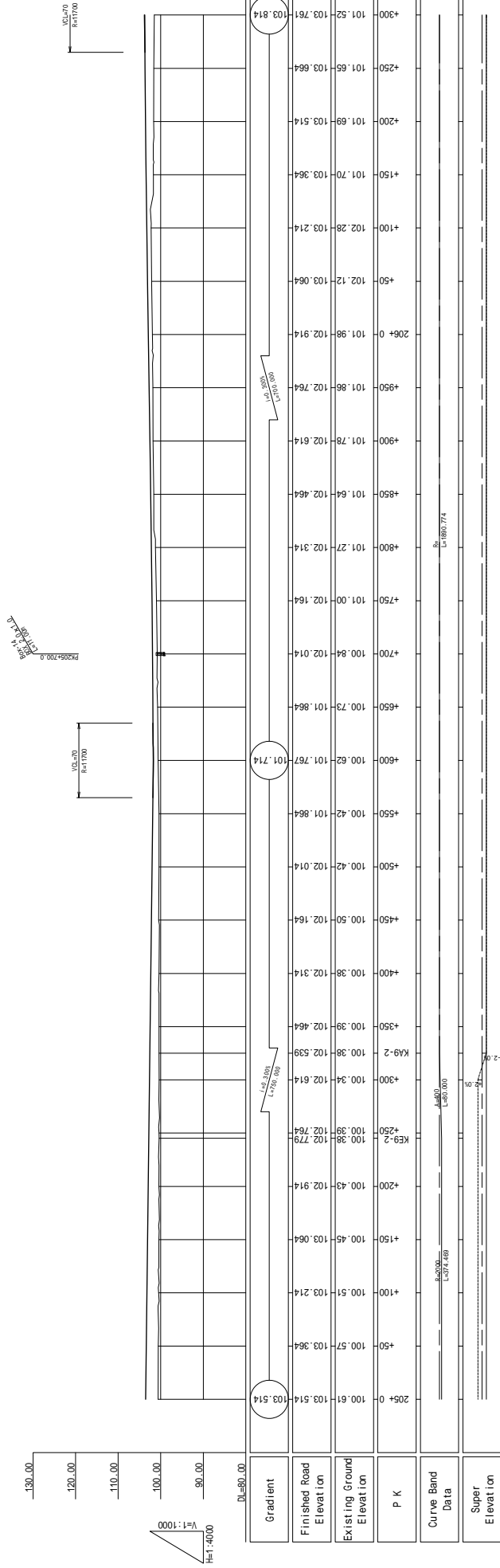
 REPUBLIQUE DE DJIBOUTI MINISTERE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT	 JAPAN INTERNATIONAL COOPERATION AGENCY YACHIYO ENGINEERING CO., LTD.	THE PREPARATORY SURVEY FOR THE PROJECT FOR UPGRADING OF NATIONAL ROAD ROUTE 1 IN THE REPUBLIC OF DJIBOUTI		SHEET CONTENTS PLAN & PROFILE PK203+700 ~ PK205+000	SCALE V=1:1000, H=1:4000
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# PLAN & PROFILE

PLAN S=1:4000



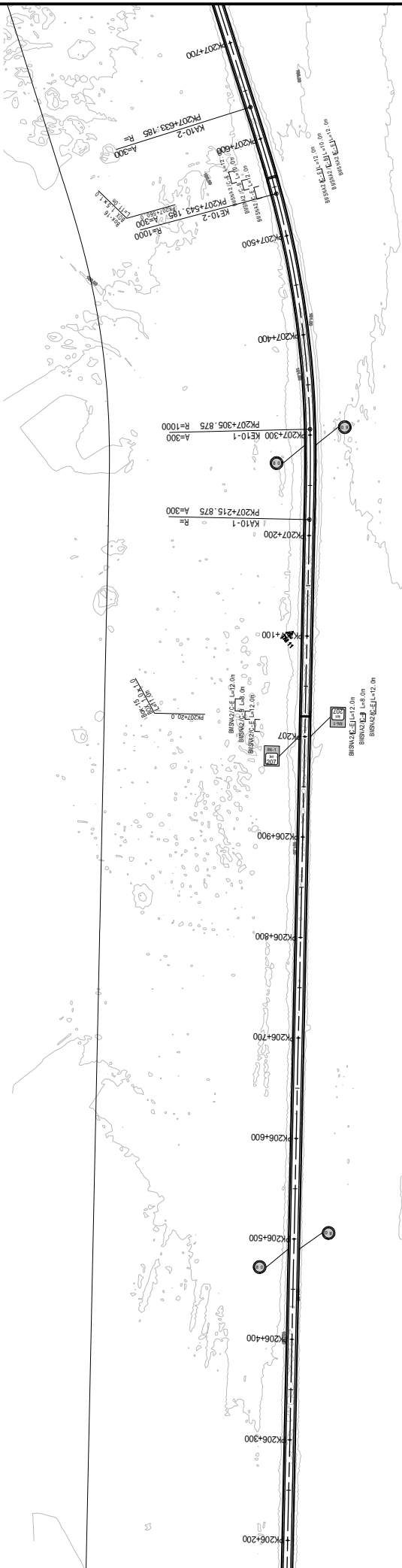
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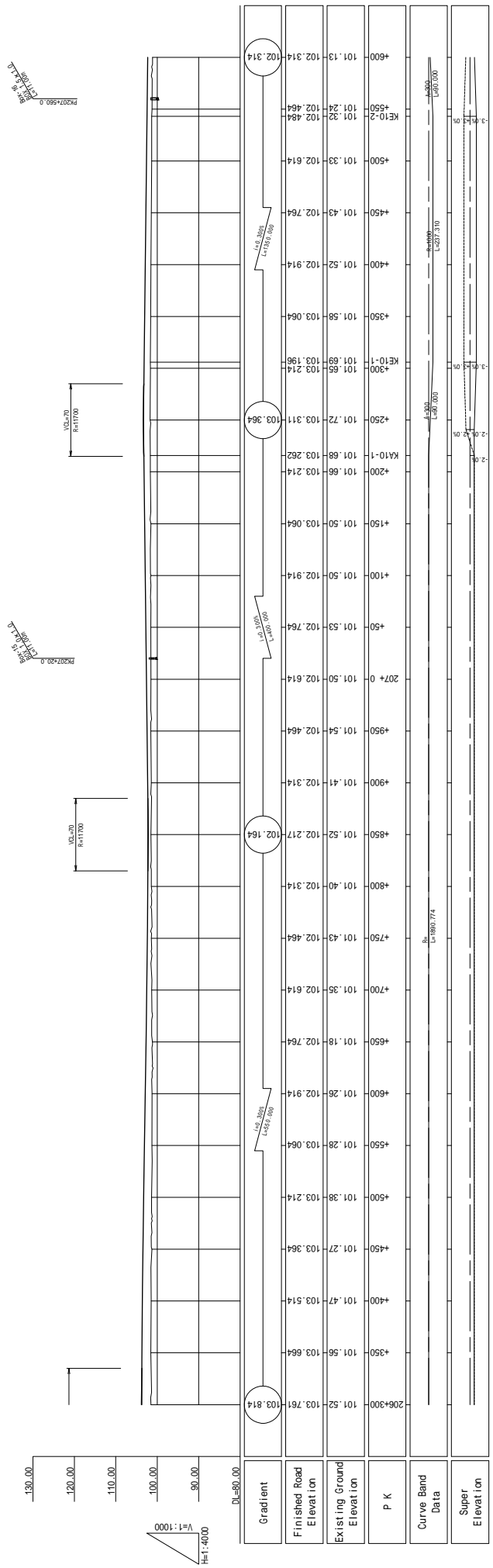
 REPUBLIQUE DE DJIBOUTI MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT	 JAPAN INTERNATIONAL COOPERATION AGENCY YACHIYO ENGINEERING CO., LTD.	SHEET CONTENTS PLAN & PROFILE PK205+000 ~ PK206+300		SCALE V=1:1000, H=1:4000
		THE PREPARATORY SURVEY FOR THE PROJECT FOR UPGRADING OF NATIONAL ROAD ROUTE 1 IN THE REPUBLIC OF DJIBOUTI		DATE NOV 2018

# PLAN & PROFILE


PLAN S=1:4000



PROFILE V=1:1000  
H=1:4000



Gradient	Finished Road Elevation	Existing Ground Elevation	P K	Curve Band Data	Super Elevation
			101.52	103.814	103.814
			101.27	103.364	103.364
			101.38	103.214	103.214
			101.28	103.064	103.064
			101.26	102.914	102.914
			101.18	102.764	102.764
			101.35	102.614	102.614
			101.43	102.464	102.464
			101.40	102.314	102.314
			101.52	102.217	102.164
			101.41	102.314	102.314
			101.54	102.464	102.464
			101.50	102.614	102.614
			101.53	102.764	102.764
			101.50	102.914	102.914
			101.50	103.064	103.064
			101.66	103.214	103.214
			101.68	103.282	103.282
			101.72	103.311	103.364
			101.65	103.214	103.214
			101.69	103.196	103.196
			101.58	103.064	103.064
			101.43	102.764	102.764
			101.52	102.914	102.914
			101.33	102.614	102.614
			101.32	102.484	102.484
			101.24	102.464	102.464
			101.13	102.314	102.314
			101.13	102.314	102.314



REPUBLIQUE DE DJIBOUTI  
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DIRECTION DE L'EQUIPEMENT

JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

SHEET CONTENTS  
PLAN & PROFILE  
PK206+300 ~ PK207+600

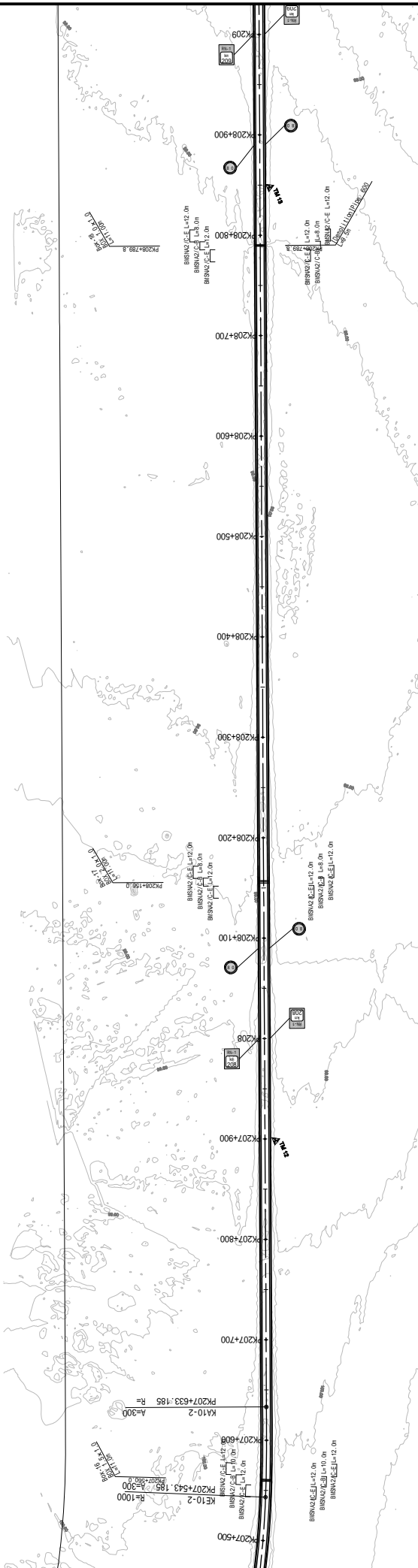
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# PLAN & PROFILE



PLAN S=1:4000



PROFILE V=1:1000 H=1:4000

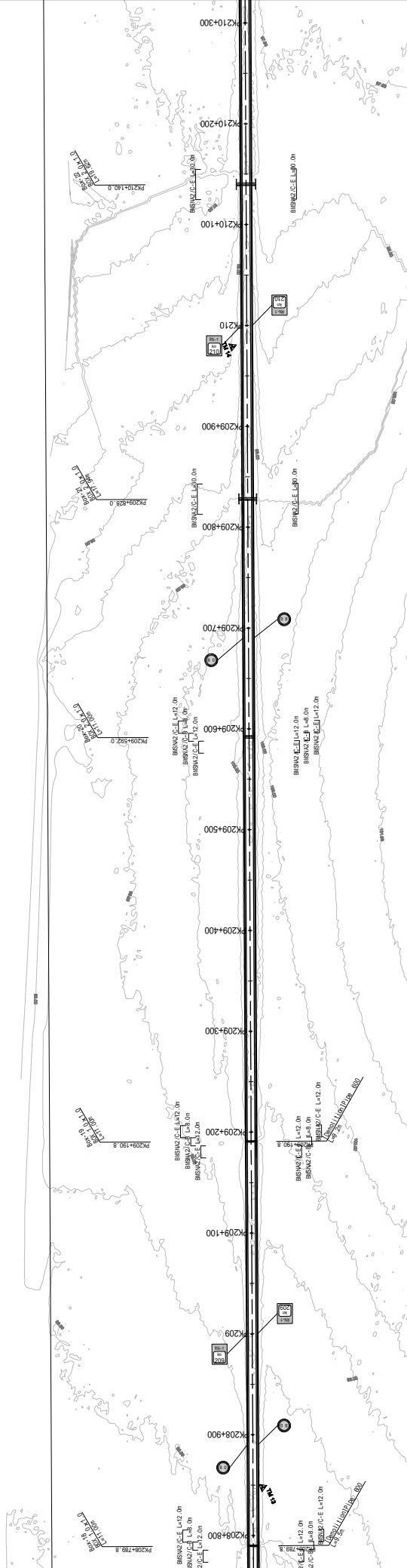


Station	Gradient	Finished Road Elevation	Existing Ground Elevation	P K	Curve Band Data	Super Elevation
207+600	101.13	102.314	101.13	207+600		
+950	99.95	101.264	99.95	+950		
+900	100.18	101.414	100.18	+900		
+850	100.40	101.564	100.40	+850		
+800	100.53	101.714	100.53	+800		
+750	100.56	101.864	100.56	+750		
+700	100.74	102.014	100.74	+700		
+650	100.83	102.164	100.83	+650		
+600	98.64	99.371	98.64	+600		
+550	98.65	99.464	98.65	+550		
+500	98.61	99.614	98.61	+500		
+450	98.64	99.764	98.64	+450		
+400	98.70	99.914	98.70	+400		
+350	98.81	100.064	98.81	+350		
+300	98.79	100.214	98.79	+300		
+250	98.95	100.364	98.95	+250		
+200	99.09	100.514	99.09	+200		
+150	99.24	100.664	99.24	+150		
+100	99.49	100.814	99.49	+100		
+50	99.57	100.964	99.57	+50		
208+0	99.84	101.114	99.84	208+0		
+900	99.25	100.364	99.25	+900		
+850	99.08	100.169	99.08	+850		
+800	98.97	100.014	98.97	+800		
+750	98.91	99.839	98.91	+750		

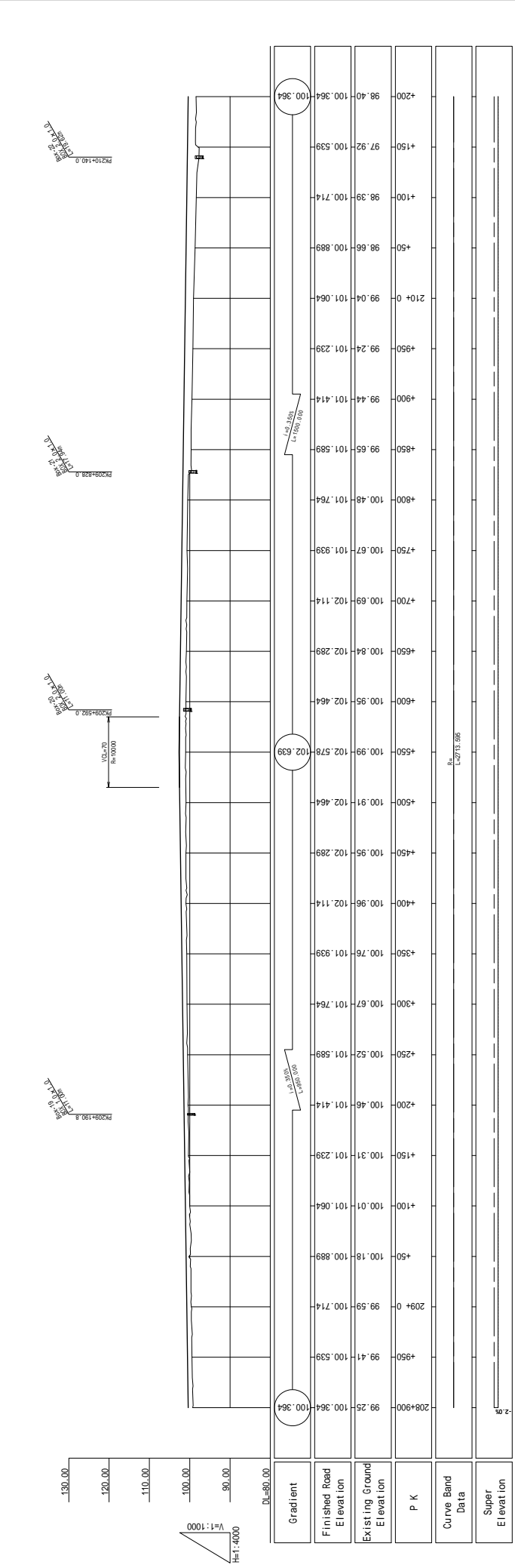
 REPUBLIQUE DE DJIBOUTI MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT	 JAPAN INTERNATIONAL COOPERATION AGENCY YACHIYO ENGINEERING CO., LTD.	SHEET CONTENTS PLAN & PROFILE PK207+600 ~ PK208+900		SCALE V=1:1000, H=1:4000
		DATE NOV 2018	PAGE NO. 11 / 131	

# PLAN & PROFILE


PLAN S=1:4000





PROFILE V=1:1000 H=1:4000



Gradient	Finished Road Elevation	Existing Ground Elevation	P K	Curve Band Data	Super Elevation
DL=80.00	100.364	99.25	208+900		
	100.539	99.41	+950		
	100.714	99.59	209+0		
	100.889	100.18	+50		
	101.064	100.01	+100		
	101.239	100.31	+150		
	101.414	100.46	+200		
	101.589	100.52	+250		
	101.764	100.67	+300		
	101.939	100.76	+350		
	102.114	100.96	+400		
	102.289	102.289	+450		
	102.464	102.289	+500		
	102.639	102.578	+550		
	102.814	102.464	+600		
	103.000	102.464	+650		
	103.185	102.289	+700		
	103.370	101.939	+750		
	103.555	101.764	+800		
	103.740	101.589	+850		
	103.925	101.414	+900		
	104.110	101.239	+950		
	104.295	101.064	210+0		
	104.480	99.04	+50		
	104.665	98.66	+100		
	104.850	98.39	+150		
	105.035	97.92	+200		
	105.220	97.22			
	105.405	96.64			


**REPUBLIQUE DE DJIBOUTI**  
**MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS**  
**DIRECTION DE L'EQUIPEMENT**


**JAPAN INTERNATIONAL COOPERATION AGENCY**


**YACHIYO ENGINEERING CO., LTD.**

**THE PREPARATORY SURVEY FOR**  
**THE PROJECT FOR**  
**UPGRADING OF NATIONAL ROAD ROUTE 1**  
**IN THE REPUBLIC OF DJIBOUTI**

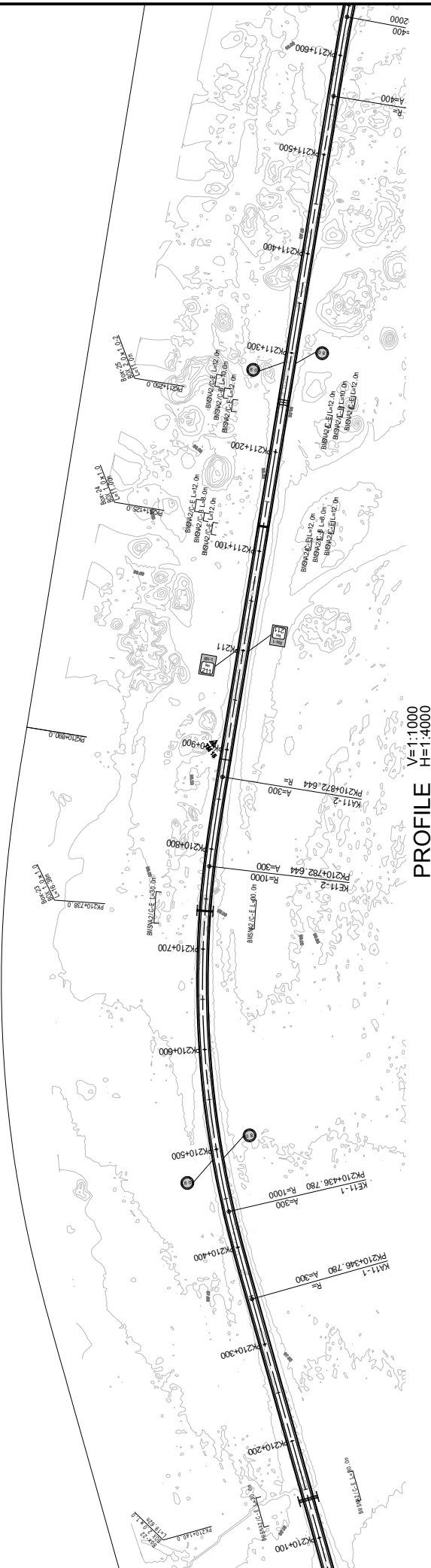
**SHEET CONTENTS**  
**PLAN & PROFILE**  
**PK208+900 ~ PK210+200**

**SCALE** V=1:1000, H=1:4000  
**DATE** NOV 2018  
**PAGE NO.** 12 / 131

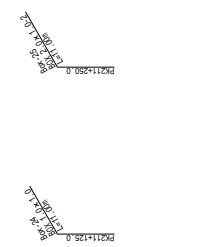


# PLAN & PROFILE

PLAN S=1:4000



PROFILE V=1:1000  
H=1:4000



Gradient	Finished Road Elevation	Existing Ground Elevation	P K	Curve Band Data	Super Elevation
0.00	98.40	98.40	210+200		
0.00	100.364	100.364	100		
0.00	98.04	98.04	300		
0.00	98.04	98.04	100.189		
0.00	98.04	98.04	100.014		
0.00	97.66	97.66	350		
0.00	99.850	99.850	350		
0.00	97.70	97.70	350		
0.00	97.83	97.83	450		
0.00	99.489	99.489	450		
0.00	97.71	97.71	450		
0.00	97.53	97.53	400		
0.00	99.664	99.664	400		
0.00	97.53	97.53	350		
0.00	98.964	98.964	600		
0.00	97.31	97.31	600		
0.00	98.789	98.789	650		
0.00	97.21	97.21	650		
0.00	98.614	98.614	700		
0.00	97.15	97.15	700		
0.00	98.439	98.439	750		
0.00	98.264	98.264	800		
0.00	98.90	98.90	800		
0.00	98.325	98.325	800		
0.00	98.89	98.89	800		
0.00	96.77	96.77	850		
0.00	98.089	98.089	850		
0.00	96.77	96.77	850		
0.00	96.69	96.69	900		
0.00	96.59	96.59	900		
0.00	97.914	97.914	950		
0.00	96.55	96.55	950		
0.00	97.739	97.739	950		
0.00	96.65	96.65	950		
0.00	97.564	97.564	950		
0.00	96.49	96.49	950		
0.00	97.446	97.446	950		
0.00	96.49	96.49	950		
0.00	97.446	97.446	950		
0.00	96.44	96.44	1000		
0.00	97.539	97.539	1000		
0.00	96.44	96.44	1000		
0.00	97.446	97.446	1000		
0.00	96.38	96.38	1050		
0.00	97.689	97.689	1050		
0.00	96.38	96.38	1050		
0.00	97.839	97.839	1050		
0.00	96.36	96.36	1050		
0.00	97.989	97.989	1050		
0.00	96.43	96.43	1050		
0.00	97.989	97.989	1050		
0.00	96.56	96.56	1100		
0.00	98.139	98.139	1100		
0.00	96.56	96.56	1100		
0.00	97.989	97.989	1100		
0.00	96.77	96.77	1100		
0.00	98.289	98.289	1100		
0.00	96.77	96.77	1100		
0.00	97.49	97.49	1100		
0.00	98.439	98.439	1100		
0.00	97.49	97.49	1100		
0.00	97.75	97.75	1100		
0.00	98.589	98.589	1100		
0.00	97.75	97.75	1100		
0.00	98.739	98.739	1100		

REPUBLIQUE DE DJIBOUTI  
MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS  
DIRECTION DE L'EQUIPEMENT

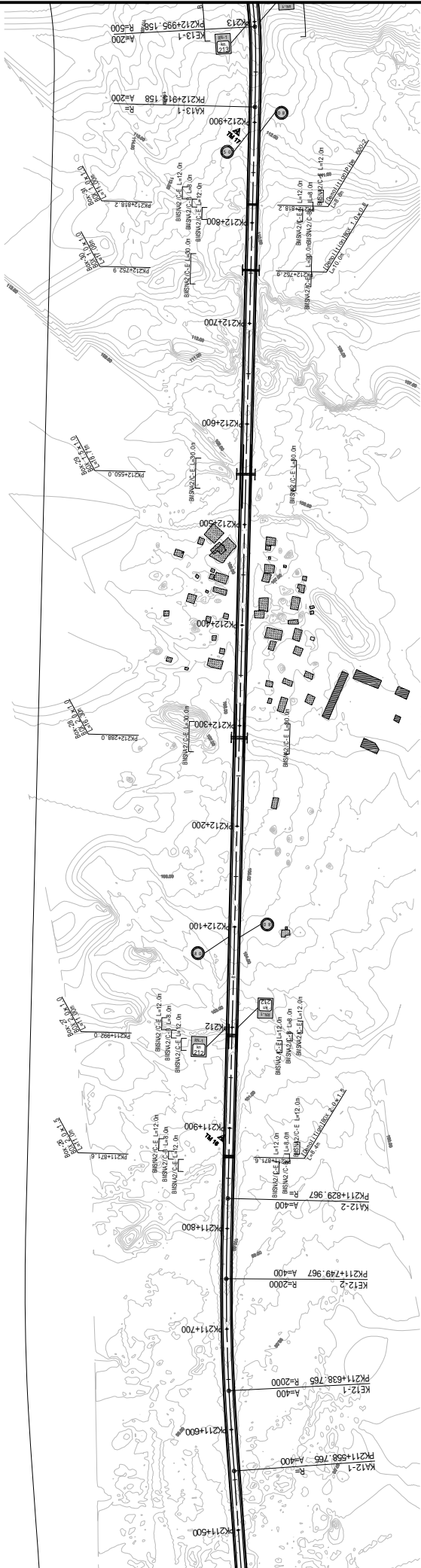
JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

SHEET CONTENTS  
PLAN & PROFILE  
PK210+200 - PK211+500

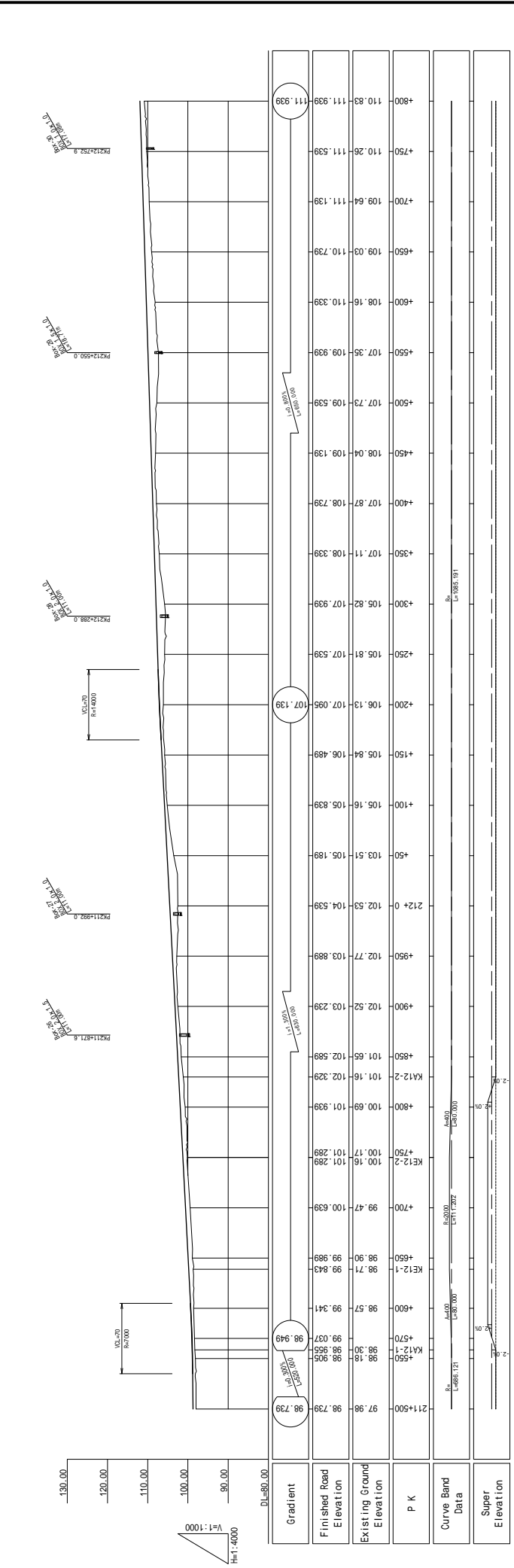
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DATE NOV 2018  
PAGE NO. 13 / 131



# PLAN & PROFILE

PLAN S=1:4000



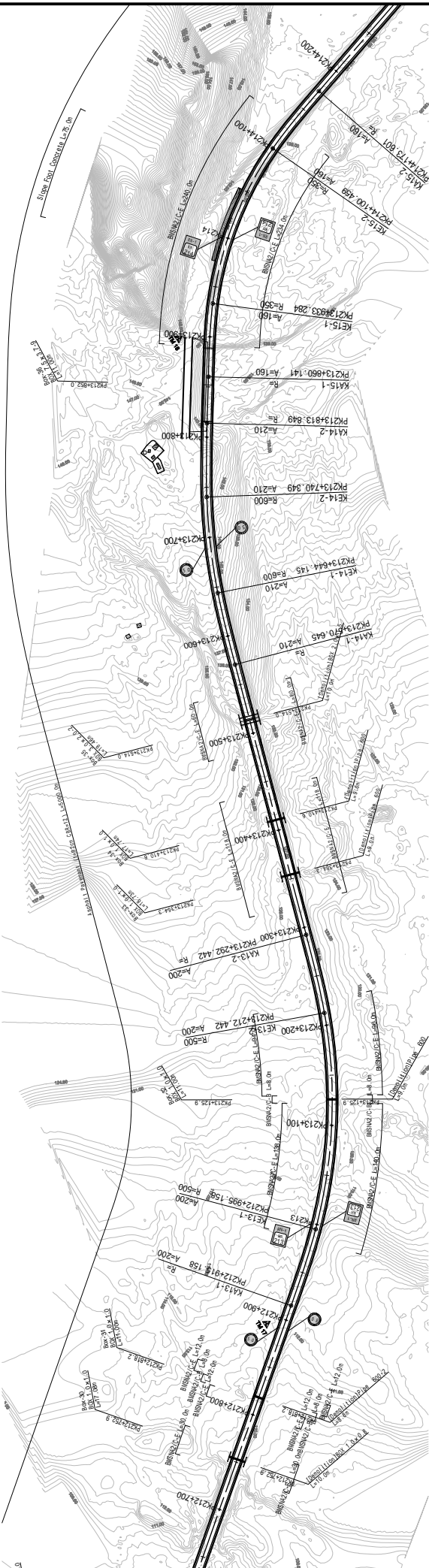
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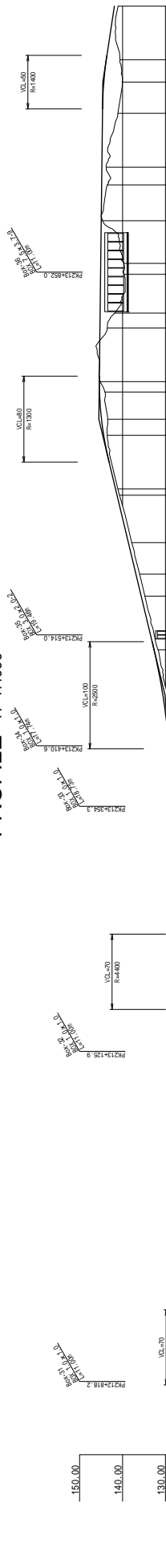
 <p>REPUBLIQUE DE DJIBOUTI MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT</p>	 <p>JAPAN INTERNATIONAL COOPERATION AGENCY YACHIYO ENGINEERING CO., LTD.</p>	<p>SHEET CONTENTS</p> <p>PLAN &amp; PROFILE PK211+500 ~ PK212+800</p>		<p>SCALE</p> <p>V=1:1000, H=1:4000</p>
		<p>THE PREPARATORY SURVEY FOR THE PROJECT FOR UPGRADING OF NATIONAL ROAD ROUTE 1 IN THE REPUBLIC OF DJIBOUTI</p>		<p>DATE</p> <p>NOV 2018</p>
			<p>PAGE NO.</p> <p>14 / 131</p>	

# PLAN & PROFILE

PLAN S=1:4000



PROFILE V=1:1000 H=1:4000



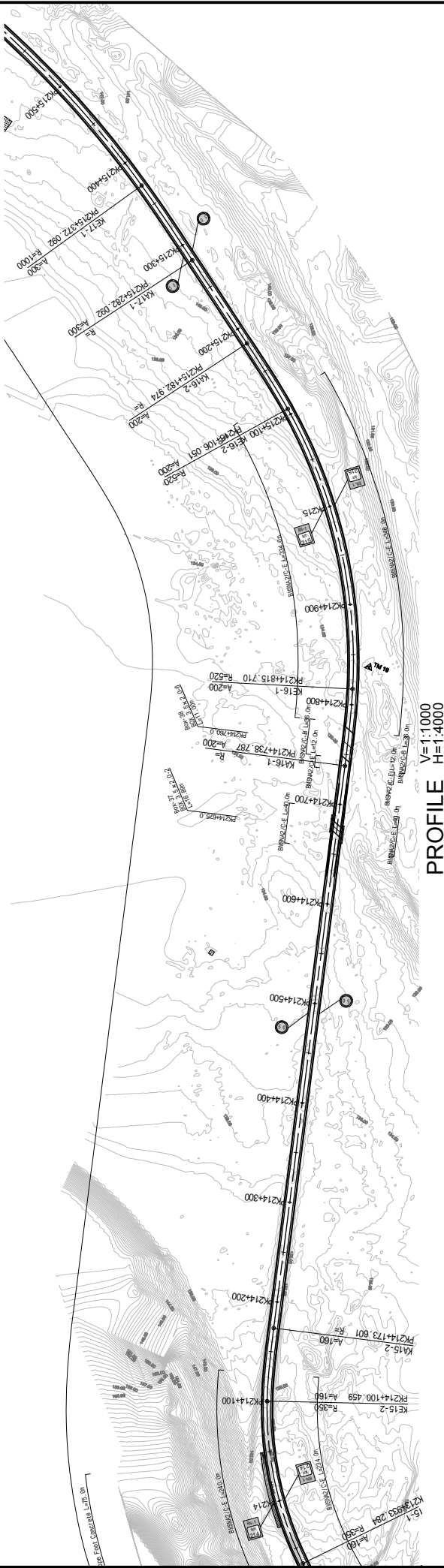
V=1:1000  
H=1:4000

Gradient	Finished Road Elevation	Existing Ground Elevation	P K	Curve Band Data	Super Elevation
	111.939	111.939	212+800		
	111.84	111.84	+850		
	113.30	114.139	+900		
	113.84	114.665	+950		
	115.14	115.939	+950		
	116.78	117.565	KE13-1		
	116.89	117.739	KE13-0		
	118.68	119.539	+50		
	120.56	121.339	+100		
	122.15	123.139	+150		
	123.91	124.799	+200		
	124.20	125.130	KE13-2		
	124.93	125.939	+250		
	125.62	126.788	KE13-2		
	125.79	126.939	+300		
	126.57	127.939	+350		
	127.48	128.939	+400		
	128.32	130.297	+450		
	129.32	130.593	130.093		
	131.77	136.630	+550		
	134.77	136.630	KA14-1		
	137.86	138.630	+600		
	140.69	141.279	KE14-1		
	141.09	141.630	+650		
	143.54	144.384	+700		
	144.11	145.369	KE14-2		
	145.23	145.415	+750		
	143.56	145.275	+800		
	143.54	144.875	KA14-2		
	143.81	144.825	+950		
	141.0	144.675	214+0		
	140.58	143.789	+50		
	141.895	144.895	141.895		

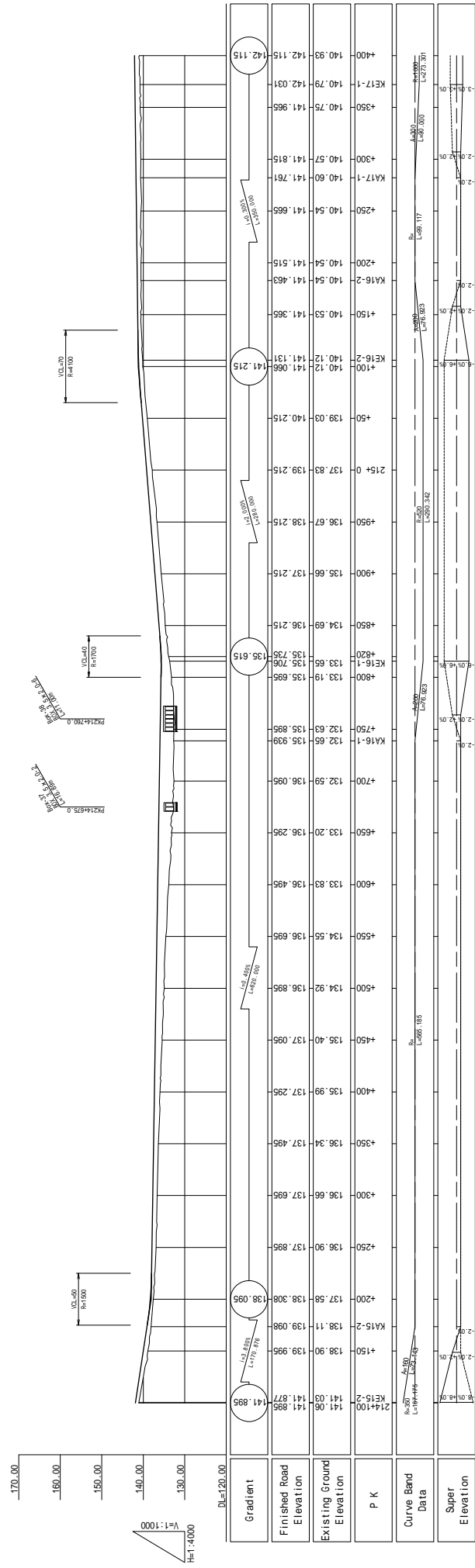
	REPUBLIQUE DE DJIBOUTI MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT		JAPAN INTERNATIONAL COOPERATION AGENCY YACHIYO ENGINEERING CO., LTD.	SHEET CONTENTS PLAN & PROFILE PK212+800 ~ PK214+100	SCALE V=1:1000, H=1:4000
	NOV 2018		DATE		PAGE NO. 15 / 131

# PLAN & PROFILE

PLAN S=1:4000



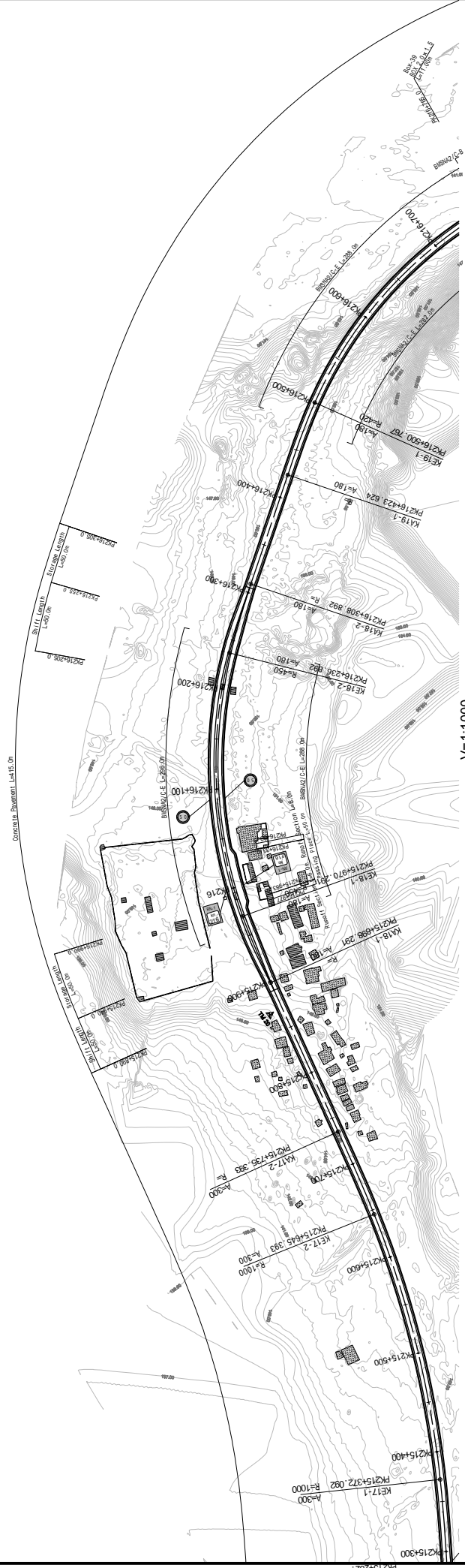
PROFILE V=1:1000 H=1:4000



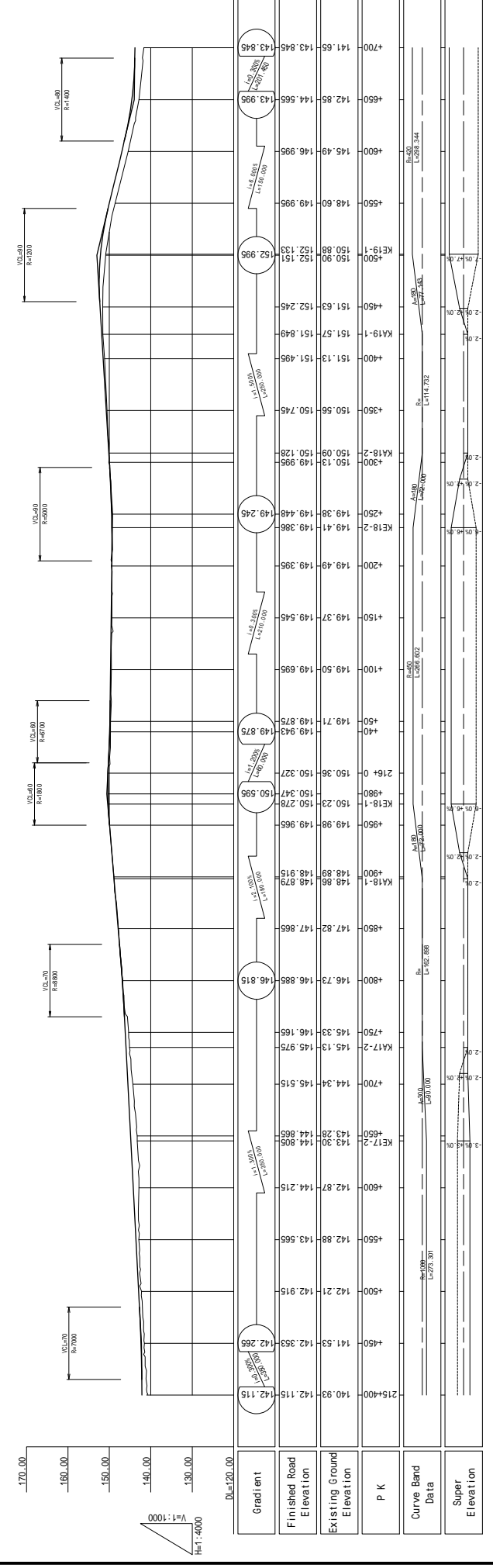
Gradient	Finished Road Elevation	Existing Ground Elevation	P K	Curve Band Data	Super Elevation
	141.985	141.877	214+100	KA15-2 R=350 L=117.44 L=117.44	0.00
	141.06	141.03	KE15-2		0.00
	137.99	137.99	+250	KA15-2 R=350 L=117.44 L=117.44	0.00
	136.34	137.495	+350		0.00
	136.66	137.695	+300		0.00
	136.90	137.895	+250		0.00
	138.30	138.995	+200		0.00
	138.11	139.095	KA15-2		0.00
	138.90	139.995	+150		0.00
	141.877	141.877	KE15-2		0.00
	141.985	141.877	214+100	KA15-2 R=350 L=117.44 L=117.44	0.00
	134.92	136.895	+500		0.00
	134.55	136.895	+550		0.00
	133.83	136.495	+600		0.00
	133.20	136.295	+650		0.00
	132.59	136.095	+700		0.00
	132.65	135.939	KA16-1		0.00
	132.63	135.939	+750		0.00
	133.65	135.706	KE16-1		0.00
	135.706	135.696	+800		0.00
	135.735	135.696	+820		0.00
	135.735	135.696	KE16-2		0.00
	134.69	136.215	+850		0.00
	134.69	136.215	+860		0.00
	134.67	137.215	+950		0.00
	137.83	139.215	215+		0.00
	139.03	140.215	+50		0.00
	140.12	141.131	KE16-2		0.00
	140.54	141.483	KA16-2		0.00
	140.54	141.483	+200		0.00
	140.54	141.515	+250		0.00
	140.54	141.665	KA17-1		0.00
	140.60	141.761	+300		0.00
	140.57	141.815	+350		0.00
	140.75	141.966	KE17-1		0.00
	140.93	142.031	+400		0.00

# PLAN & PROFILE

PLAN S=1:4000



## PROFILE V=1:1000 H=1:4000



Station	Finished Road Elevation	Existing Ground Elevation	P K	Curve Band Data	Super Elevation
215+400	140.93	142.115			
+450	141.53	142.353			
+500	142.21	142.915			
+550	142.88	143.565			
+600	143.57	144.215			
+650	144.28	144.865			
+700	144.94	145.515			
+750	145.63	146.165			
+800	146.34	146.815			
+850	147.07	147.465			
+900	147.82	148.115			
+950	148.59	148.765			
+1000	149.38	149.415			
+1050	149.36	149.395			
+1100	149.37	149.405			
+1150	149.38	149.415			
+1200	149.39	149.425			
+1250	149.40	149.435			
+1300	149.41	149.445			
+1350	149.42	149.455			
+1400	149.43	149.465			
+1450	149.44	149.475			
+1500	149.45	149.485			
+1550	149.46	149.495			
+1600	149.47	149.505			
+1650	149.48	149.515			
+1700	149.49	149.525			
+1750	149.50	149.535			
+1800	149.51	149.545			
+1850	149.52	149.555			
+1900	149.53	149.565			
+1950	149.54	149.575			
+2000	149.55	149.585			
+2050	149.56	149.595			
+2100	149.57	149.605			
+2150	149.58	149.615			
+2200	149.59	149.625			
+2250	149.60	149.635			
+2300	149.61	149.645			
+2350	149.62	149.655			
+2400	149.63	149.665			
+2450	149.64	149.675			
+2500	149.65	149.685			
+2550	149.66	149.695			
+2600	149.67	149.705			
+2650	149.68	149.715			
+2700	149.69	149.725			
+2750	149.70	149.735			
+2800	149.71	149.745			
+2850	149.72	149.755			
+2900	149.73	149.765			
+2950	149.74	149.775			
+3000	149.75	149.785			
+3050	149.76	149.795			
+3100	149.77	149.805			
+3150	149.78	149.815			
+3200	149.79	149.825			
+3250	149.80	149.835			
+3300	149.81	149.845			
+3350	149.82	149.855			
+3400	149.83	149.865			
+3450	149.84	149.875			
+3500	149.85	149.885			
+3550	149.86	149.895			
+3600	149.87	149.905			
+3650	149.88	149.915			
+3700	149.89	149.925			
+3750	149.90	149.935			
+3800	149.91	149.945			
+3850	149.92	149.955			
+3900	149.93	149.965			
+3950	149.94	149.975			
+4000	149.95	149.985			
+4050	149.96	149.995			
+4100	149.97	150.005			
+4150	149.98	150.015			
+4200	149.99	150.025			
+4250	150.00	150.035			
+4300	150.01	150.045			
+4350	150.02	150.055			
+4400	150.03	150.065			
+4450	150.04	150.075			
+4500	150.05	150.085			
+4550	150.06	150.095			
+4600	150.07	150.105			
+4650	150.08	150.115			
+4700	150.09	150.125			
+4750	150.10	150.135			
+4800	150.11	150.145			
+4850	150.12	150.155			
+4900	150.13	150.165			
+4950	150.14	150.175			
+5000	150.15	150.185			
+5050	150.16	150.195			
+5100	150.17	150.205			
+5150	150.18	150.215			
+5200	150.19	150.225			
+5250	150.20	150.235			
+5300	150.21	150.245			
+5350	150.22	150.255			
+5400	150.23	150.265			
+5450	150.24	150.275			
+5500	150.25	150.285			
+5550	150.26	150.295			
+5600	150.27	150.305			
+5650	150.28	150.315			
+5700	150.29	150.325			
+5750	150.30	150.335			
+5800	150.31	150.345			
+5850	150.32	150.355			
+5900	150.33	150.365			
+5950	150.34	150.375			
+6000	150.35	150.385			
+6050	150.36	150.395			
+6100	150.37	150.405			
+6150	150.38	150.415			
+6200	150.39	150.425			
+6250	150.40	150.435			
+6300	150.41	150.445			
+6350	150.42	150.455			
+6400	150.43	150.465			
+6450	150.44	150.475			
+6500	150.45	150.485			
+6550	150.46	150.495			
+6600	150.47	150.505			
+6650	150.48	150.515			
+6700	150.49	150.525			
+6750	150.50	150.535			
+6800	150.51	150.545			
+6850	150.52	150.555			
+6900	150.53	150.565			
+6950	150.54	150.575			
+7000	150.55	150.585			

REPUBLIQUE DE DJIBOUTI  
 MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS  
 DIRECTION DE L'EQUIPEMENT

JICA  
 YAO

JAPAN INTERNATIONAL COOPERATION AGENCY  
 YACHIYO ENGINEERING CO., LTD.

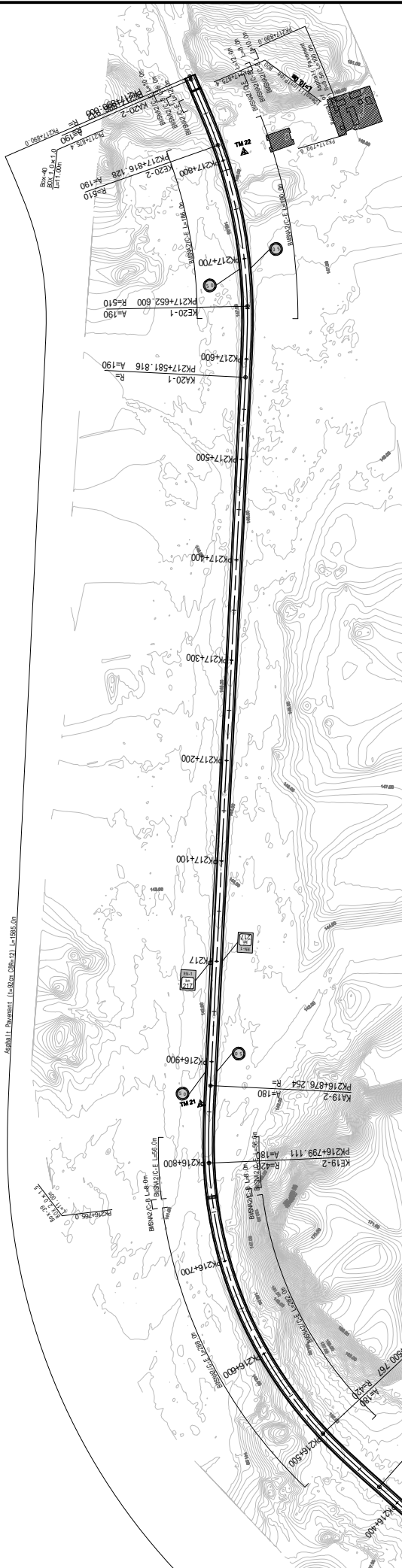
THE PREPARATORY SURVEY FOR  
 THE PROJECT FOR  
 UPGRADING OF NATIONAL ROAD ROUTE 1  
 IN THE REPUBLIC OF DJIBOUTI

SHEET CONTENTS  
 PLAN & PROFILE  
 PK215+400 ~ PK216+700

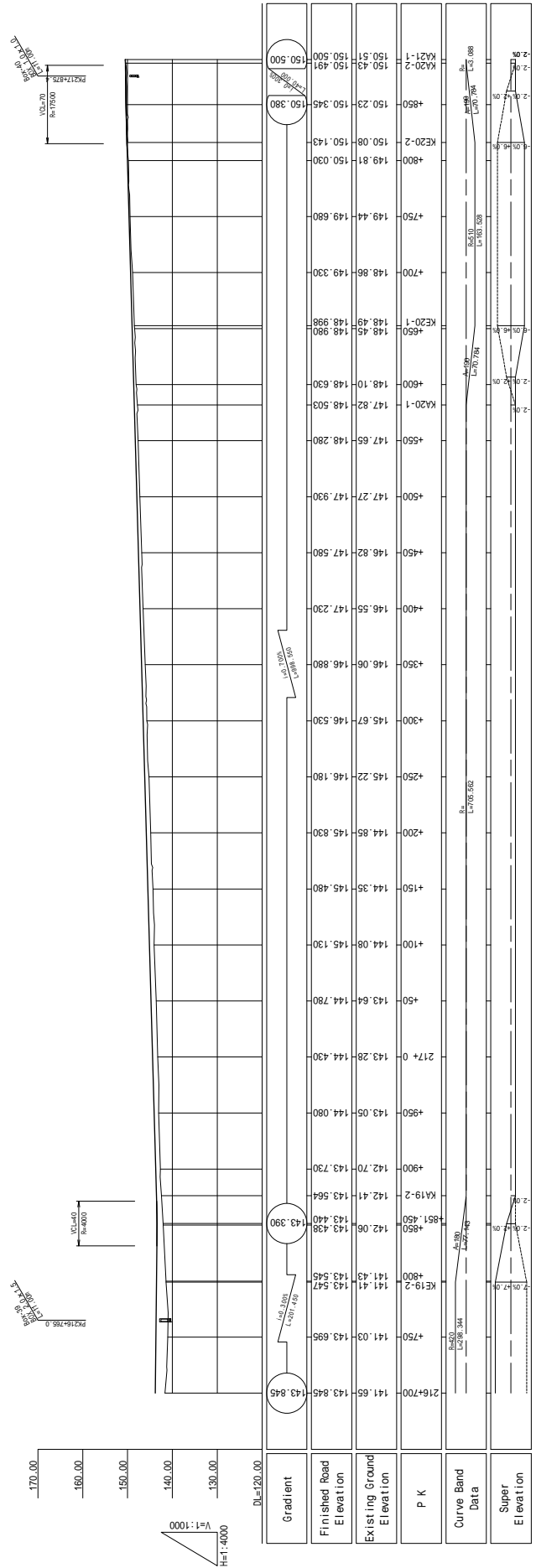
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 DATE NOV 2018  
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# PLAN & PROFILE

PLAN S=1:4000



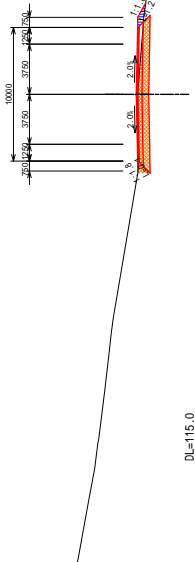
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 REPUBLIQUE DE DJIBOUTI MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT	 JAPAN INTERNATIONAL COOPERATION AGENCY YACHIYO ENGINEERING CO., LTD.	SHEET CONTENTS PLAN & PROFILE PK216+700 - PK217+890		SCALE V=1:1000, H=1:4000
		THE PREPARATORY SURVEY FOR THE PROJECT FOR UPGRADING OF NATIONAL ROAD ROUTE 1 IN THE REPUBLIC OF DJIBOUTI		DATE NOV 2018
			PAGE NO. 18 / 131	

PK 197+250	
Excavation	0.0 m
Shoulder Slope	8.7 m
Embankment	0.2 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.1 m
Right Side	1.2 m

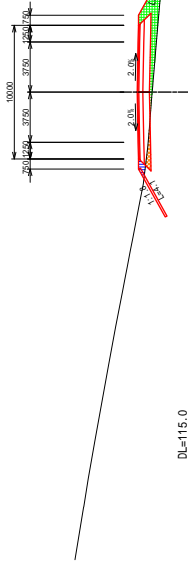
PK197+250  
 GH=119.40  
 PH=119.502



DL=115.0

PK 197+350	
Excavation	0.0 m
Shoulder Slope	0.7 m
Embankment	0.4 m
Shoulder Slope	0.2 m
Shoulder Slope	0.2 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.1 m
Left Side	3.7 m

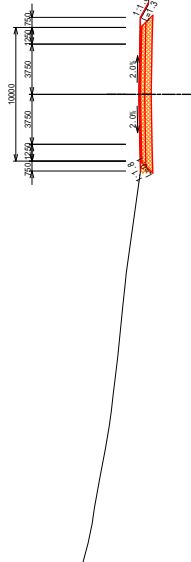
PK197+350  
 GH=117.79  
 PH=118.914



DL=115.0

PK 197+200	
Excavation	0.0 m
Shoulder Slope	10.4 m
Embankment	0.1 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.1 m
Left Side	0.1 m
Right Side	1.3 m

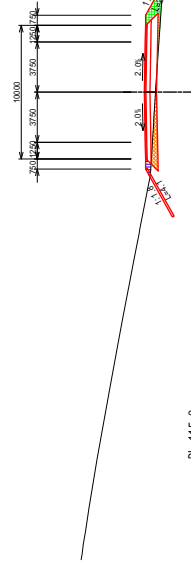
PK197+200  
 GH=120.16  
 PH=120.164



DL=115.0

PK 197+300	
Excavation	0.0 m
Shoulder Slope	1.8 m
Embankment	0.4 m
Shoulder Slope	0.0 m
Shoulder Slope	2.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.1 m
Left Side	2.7 m

PK197+300  
 GH=118.32  
 PH=119.164



DL=115.0



REPUBLIQUE DE DJIBOUTI  
 MINISTERE DE L'EQUIPEMENT ET DES TRANSPORTS  
 DIRECTION DE L'EQUIPEMENT



JAPAN INTERNATIONAL COOPERATION AGENCY  
 YACHIYO ENGINEERING CO., LTD.

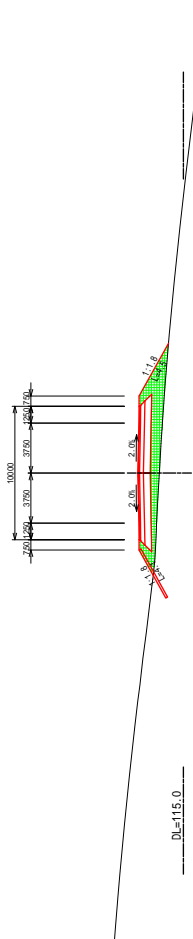
THE PREPARATORY SURVEY FOR  
 THE PROJECT FOR  
 UPGRADING OF NATIONAL ROAD ROUTE 1  
 IN THE REPUBLIC OF DJIBOUTI

SHEET CONTENTS  
 CROSS SECTION  
 PK197+200 ~ PK197+350

SCALE S=1:400  
 DATE NOV 2018  
 PAGE NO. 19 / 131

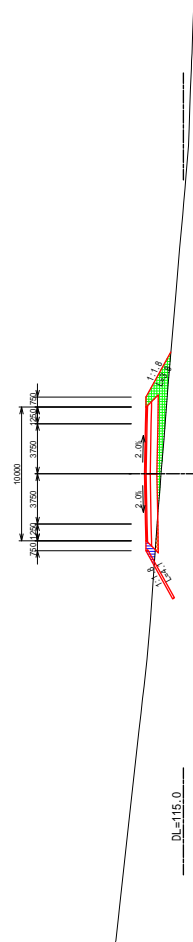
PK 197+450	
Excavation	
0+0	0.0 m
0+1	0.0 m
Embankment	
0+2	0.0 m
0+3	0.0 m
0+4	0.0 m
0+5	0.0 m
0+6	0.0 m
0+7	0.0 m
0+8	0.0 m
0+9	0.0 m
0+10	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	4.1 m
Right Side	4.0 m

PK197+450  
GH=116.80  
PH=118.414



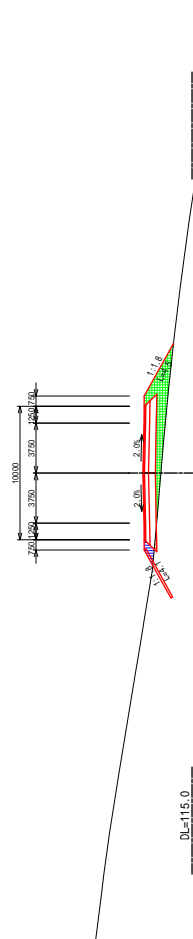
PK 197+550	
Excavation	
0+0	0.0 m
0+1	0.3 m
Embankment	
0+2	0.7 m
0+3	0.3 m
0+4	0.3 m
0+5	0.3 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	4.1 m
Right Side	3.8 m

PK'197+550  
GH=116.67  
PH=117.914



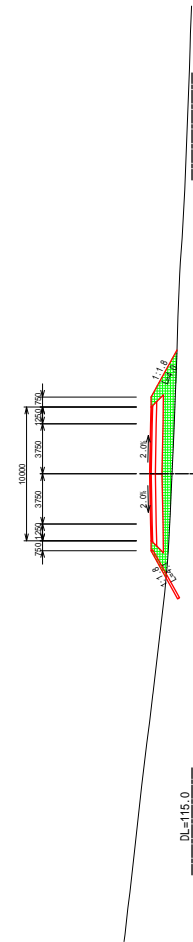
PK 197+400	
Excavation	
0+0	0.0 m
0+1	0.2 m
Embankment	
0+2	0.7 m
0+3	0.7 m
0+4	0.7 m
0+5	0.7 m
0+6	0.7 m
0+7	0.7 m
0+8	0.7 m
0+9	0.7 m
0+10	0.7 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	4.1 m
Right Side	4.3 m

PK197+400  
GH=117.32  
PH=118.664



PK 197+500	
Excavation	
0+0	0.0 m
0+1	0.0 m
Embankment	
0+2	0.0 m
0+3	0.0 m
0+4	0.0 m
0+5	0.0 m
0+6	0.0 m
0+7	0.0 m
0+8	0.0 m
0+9	0.0 m
0+10	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	4.1 m
Right Side	4.0 m

PK'197+500  
GH=116.49  
PH=118.164



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JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

THE PREPARATORY SURVEY FOR  
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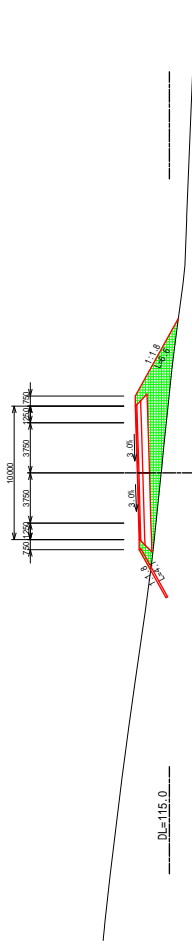
SHEET CONTENTS  
CROSS SECTION  
PK197+400 ~ PK197+550

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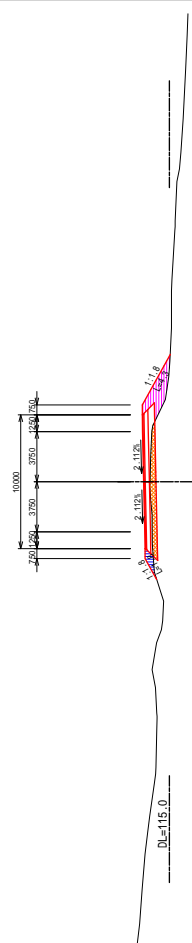
PK 197+650	
Excavation	0.0 m
Subgrade	0.0 m
Shoulder	3.7 m
Enbankment	0.0 m
Left Slope	0.7 m
Right Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	0.0 m
Left Slope	4.1 m
Right Slope	0.0 m

PK197+650  
GH=115.62  
PH=117.414



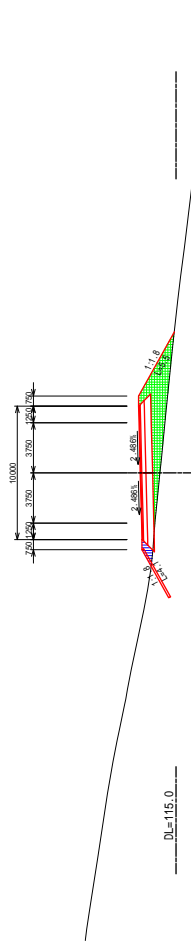
PK 197+750	
Excavation	0.0 m
Subgrade	0.0 m
Shoulder	3.7 m
Enbankment	0.7 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	1.8 m
Left Slope	4.3 m
Right Slope	0.0 m

PK197+750  
GH=116.47  
PH=116.929



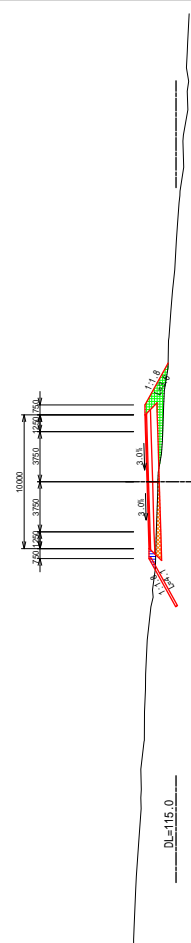
PK 197+600	
Excavation	0.0 m
Subgrade	0.1 m
Shoulder	0.8 m
Enbankment	0.0 m
Left Slope	1.3 m
Right Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	4.1 m
Left Slope	5.3 m
Right Slope	0.0 m

PK197+600  
GH=116.20  
PH=117.664



PK 197+700	
Excavation	0.0 m
Subgrade	1.6 m
Shoulder	0.5 m
Enbankment	0.0 m
Left Slope	3.9 m
Right Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	4.1 m
Left Slope	3.6 m
Right Slope	0.0 m

PK197+700  
GH=116.35  
PH=117.164



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JAPAN INTERNATIONAL COOPERATION AGENCY  
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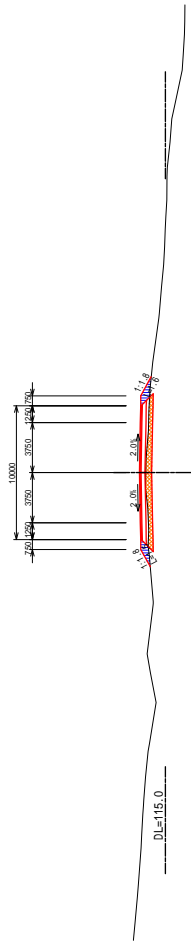
THE PREPARATORY SURVEY FOR  
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SHEET CONTENTS  
CROSS SECTION  
PK197+600 ~ PK197+750

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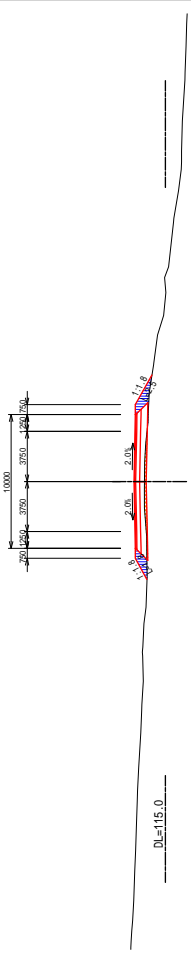
PK 197+850	
Excavation	0.0 m
Spac. Side	4.2 m
Enchantment	1.5 m
Spac. Side	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	1.5 m
Left Side	1.5 m
Right Side	1.0 m

PK197+850  
GH=116.48  
PH=116.954



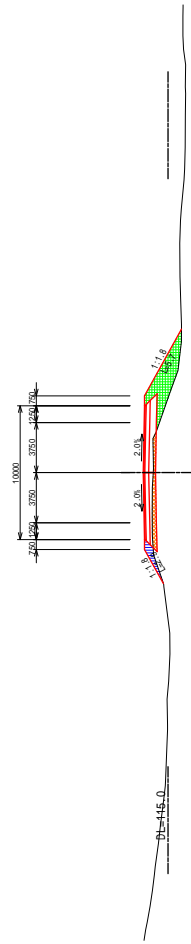
PK 197+950	
Excavation	0.0 m
Spac. Side	1.1 m
Enchantment	2.4 m
Spac. Side	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	1.8 m
Left Side	1.8 m
Right Side	2.9 m

PK197+950  
GH=116.57  
PH=117.354



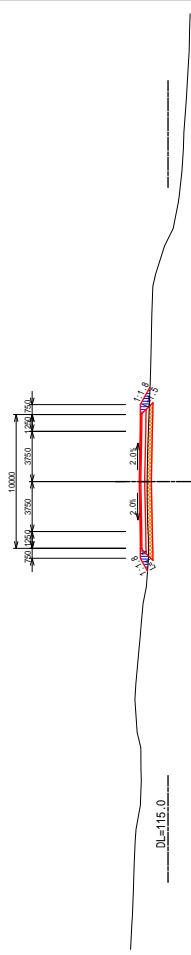
PK 197+800	
Excavation	0.0 m
Spac. Side	2.2 m
Enchantment	1.0 m
Spac. Side	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	2.9 m
Left Side	2.9 m
Right Side	5.7 m

PK197+800  
GH=116.10  
PH=116.848



PK 197+900	
Excavation	0.0 m
Spac. Side	3.6 m
Enchantment	1.3 m
Spac. Side	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	1.1 m
Left Side	1.1 m
Right Side	1.5 m

PK197+900  
GH=116.55  
PH=117.154



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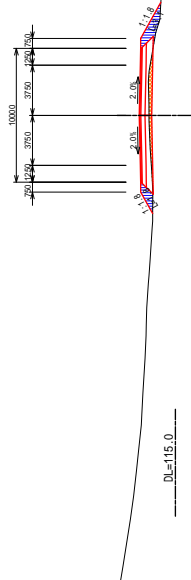
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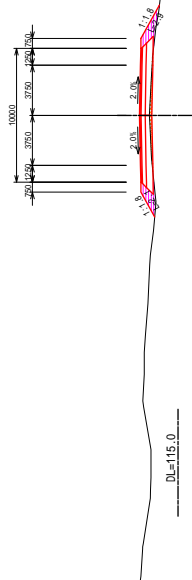
PK 198+150	
Elevation	
Top of Road	0.0 m
Subgrade	1.7 m
Enbankment	
Left Side	2.9 m
Right Side	0.0 m
Length of Enbankment Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	
Left Side	1.8 m
Right Side	3.1 m

PK198+150  
Gh=116.97  
Ph=117.704



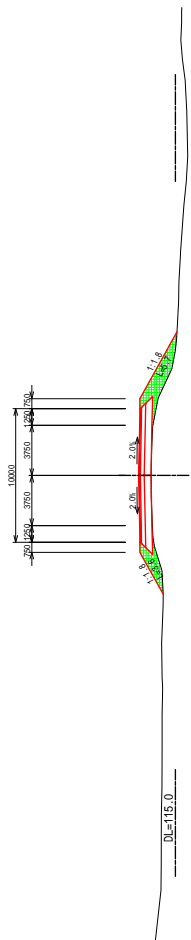
PK 198+100	
Elevation	
Top of Road	0.0 m
Subgrade	0.9 m
Enbankment	
Left Side	0.0 m
Right Side	3.0 m
Length of Enbankment Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	
Left Side	2.1 m
Right Side	2.9 m

PK198+100  
Gh=117.13  
Ph=117.875



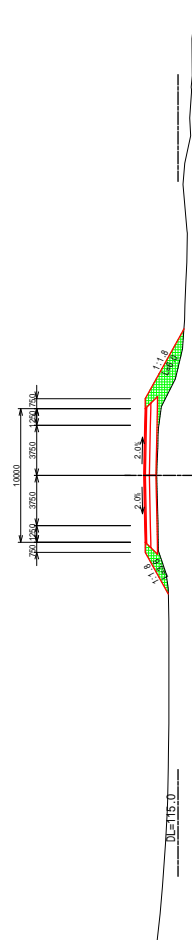
PK 198+50	
Elevation	
Top of Road	0.0 m
Subgrade	0.0 m
Enbankment	
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	
Left Side	3.8 m
Right Side	3.7 m

PK198+50  
Gh=118.81  
Ph=117.754



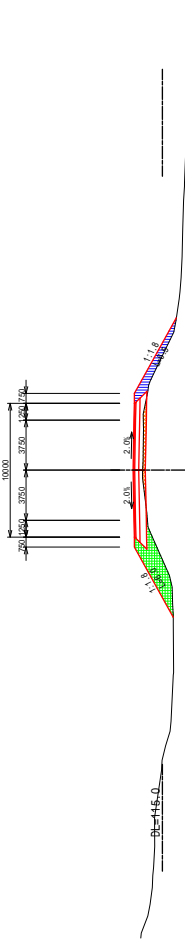
PK 198+0	
Elevation	
Top of Road	0.0 m
Subgrade	0.0 m
Enbankment	
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	
Left Side	3.6 m
Right Side	6.0 m

PK198  
Gh=116.58  
Ph=117.554



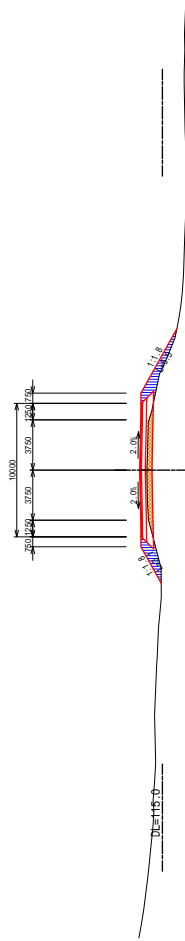
PK 198+250	
Excavation	0.0 m
Spillway	1.4 m
Enbankment	3.2 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

PK198+250  
GH=116.49  
PH=117.204



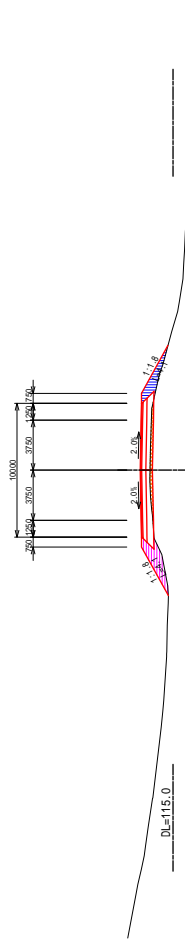
PK 198+350	
Excavation	0.0 m
Spillway	3.2 m
Enbankment	4.8 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

PK198+350  
GH=116.16  
PH=116.704



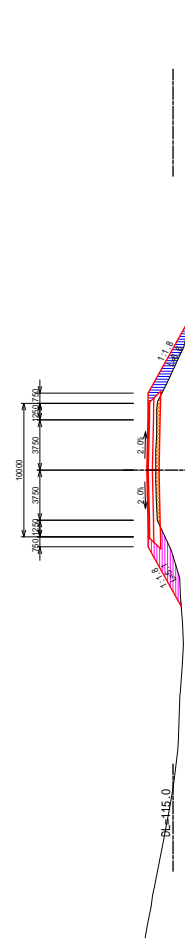
PK 198+200	
Excavation	0.0 m
Spillway	1.4 m
Enbankment	2.1 m
Left Slope	3.1 m
Right Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	4.1 m
Right Side	4.1 m

PK198+200  
GH=116.72  
PH=117.454



PK 198+300	
Excavation	0.0 m
Spillway	2.3 m
Enbankment	4.2 m
Left Slope	5.1 m
Right Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	5.1 m
Right Side	5.6 m

PK198+300  
GH=116.28  
PH=116.954



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JAPAN INTERNATIONAL COOPERATION AGENCY  
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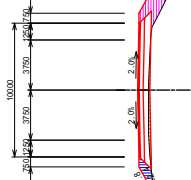
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PK198+200 ~ PK198+350

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PK 198+450	
Excavation	0.0 m
200% Slope Soil	1.0 m
Embankment	1.2 m
2.5% Slope	0.0 m
3% Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	2.8 m
Left Side	0.0 m
Right Side	0.0 m

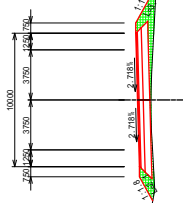
PK198+450  
GH=115.38  
PH=116.204



DL=110.0

PK 198+550	
Excavation	0.0 m
200% Slope Soil	0.0 m
Embankment	0.0 m
2.5% Slope	0.0 m
3% Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	2.1 m
Left Side	0.0 m
Right Side	3.1 m

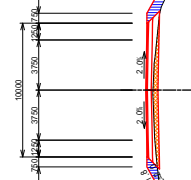
PK198+550  
GH=114.60  
PH=115.604



DL=110.0

PK 198+400	
Excavation	0.0 m
200% Slope Soil	3.1 m
Embankment	3.6 m
2.5% Slope	0.0 m
3% Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	2.0 m
Left Side	0.0 m
Right Side	4.8 m

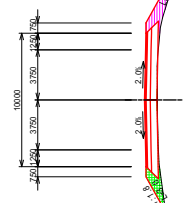
PK198+400  
GH=115.91  
PH=116.454



DL=110.0

PK 198+500	
Excavation	0.0 m
200% Slope Soil	0.0 m
Embankment	0.0 m
2.5% Slope	3.1 m
3% Slope	2.1 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	3.0 m
Left Side	0.0 m
Right Side	5.0 m

PK198+500  
GH=114.98  
PH=115.936



DL=110.0



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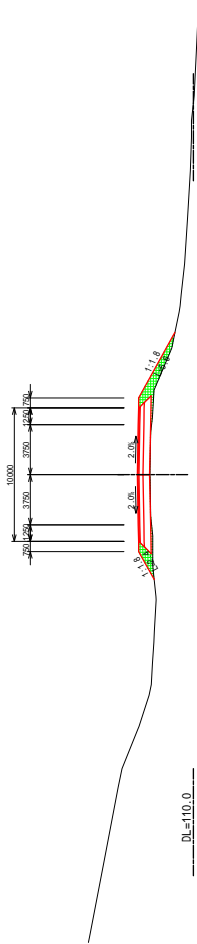
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PK198+400 ~ PK198+550

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<b>PK 198+750</b>	
Excavation	0.0 m
Top of Road	0.0 m
Subgrade	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	0.0 m
Left Slope	2.4 n
Right Slope	2.8 n

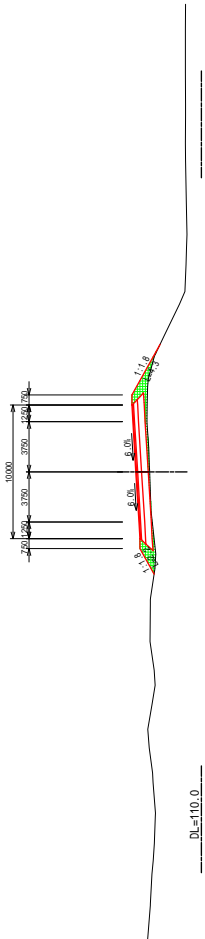
**PK198+750**  
 GH=113.25  
 PH=114.204



DL=110.0

<b>PK 198+650</b>	
Excavation	0.0 m
Top of Road	0.0 m
Subgrade	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	2.2 m
Left Slope	4.3 n

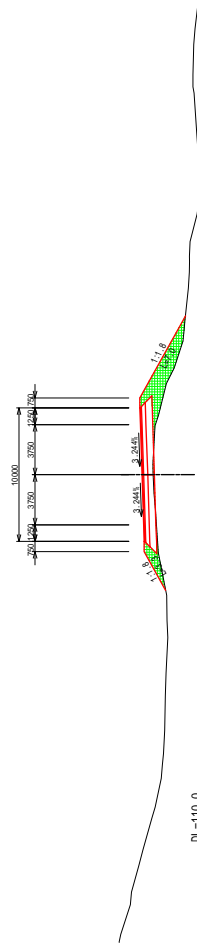
**PK198+650**  
 GH=113.88  
 PH=114.504



DL=110.0

<b>PK 198+700</b>	
Excavation	0.0 m
Top of Road	0.2 m
Subgrade	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	3.3 m
Left Slope	7.0 n

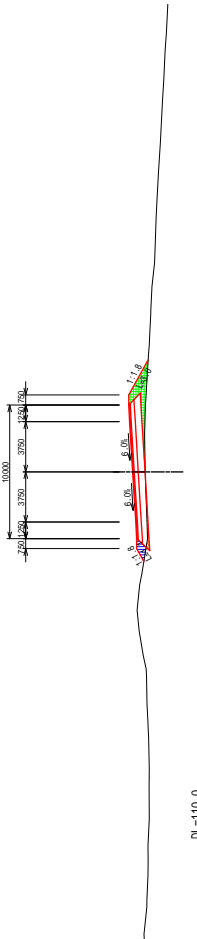
**PK198+700**  
 GH=113.71  
 PH=114.554



DL=110.0

<b>PK 198+600</b>	
Excavation	0.0 m
Top of Road	0.4 m
Subgrade	0.0 m
Enbankment	0.6 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	1.1 m
Left Slope	3.0 n

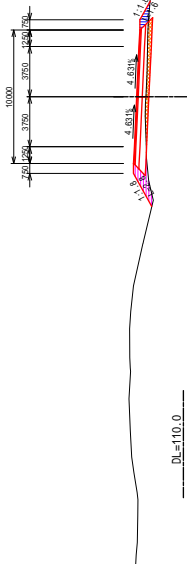
**PK198+600**  
 GH=114.31  
 PH=115.254



DL=110.0

<b>PK 198+850</b>	
Excavation	0.0 m
Shoulder Cost	1.8 m
Enchantment	1.7 m
Shoulder Cost	0.5 m
Enchantment	0.5 m
Length of Enchantment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	2.0 m
Left Slope	2.0 n
Right Slope	4.1 m

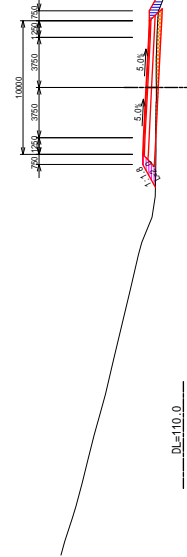
**PK198+850**  
 GH=112.81  
 PH=113.504



DL=110.0

<b>PK 198+850</b>	
Excavation	0.0 m
Shoulder Cost	2.1 m
Enchantment	0.8 m
Shoulder Cost	0.0 m
Enchantment	0.0 m
Length of Enchantment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	2.8 m
Left Slope	1.0 n
Right Slope	1.0 n

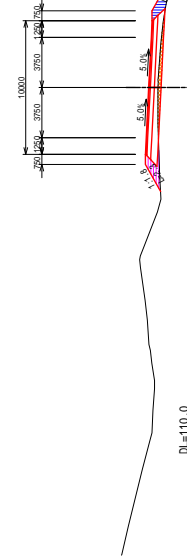
**PK198+850**  
 GH=112.81  
 PH=113.504



DL=110.0

<b>PK 198+900</b>	
Excavation	0.0 m
Shoulder Cost	1.5 m
Enchantment	1.7 m
Shoulder Cost	1.5 m
Enchantment	1.5 m
Length of Enchantment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	2.3 m
Left Slope	2.3 n
Right Slope	3.4 m

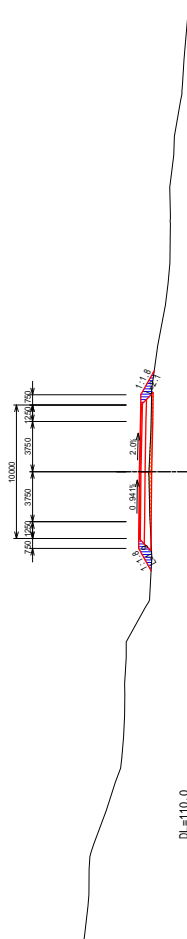
**PK198+900**  
 GH=112.46  
 PH=113.154



DL=110.0

<b>PK 198+800</b>	
Excavation	0.0 m
Shoulder Cost	1.5 m
Enchantment	2.1 m
Shoulder Cost	0.0 m
Enchantment	0.0 m
Length of Enchantment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	1.9 m
Left Slope	1.9 n
Right Slope	2.1 n

**PK198+800**  
 GH=113.16  
 PH=113.864



DL=110.0



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JAPAN INTERNATIONAL COOPERATION AGENCY  
 YACHIYO ENGINEERING CO., LTD.

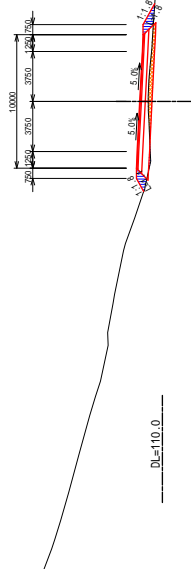
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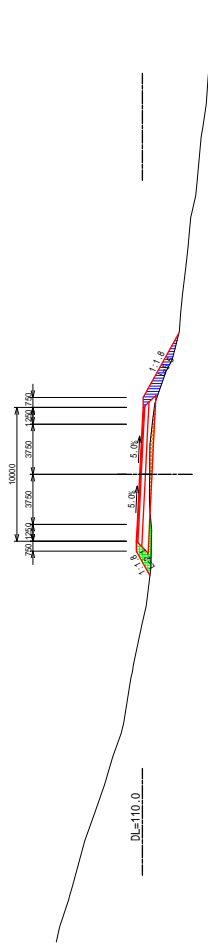
PK 199+50	
Excavation	0.0 m
Spill Slope	2.0 m
Enbankment	1.7 m
Spill Slope	0.0 m
Spill Slope	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	1.1 m
Left Side	1.1 m
Right Side	1.0 m

PK199+50  
GH=111.08  
PH=111.704



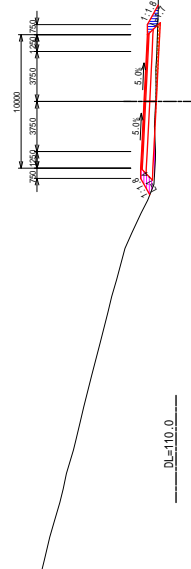
PK 199+150	
Excavation	0.0 m
Spill Slope	1.4 m
Enbankment	3.1 m
Spill Slope	0.0 m
Spill Slope	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	2.1 m
Left Side	2.1 m
Right Side	3.9 m

PK199+150  
GH=109.47  
PH=110.204



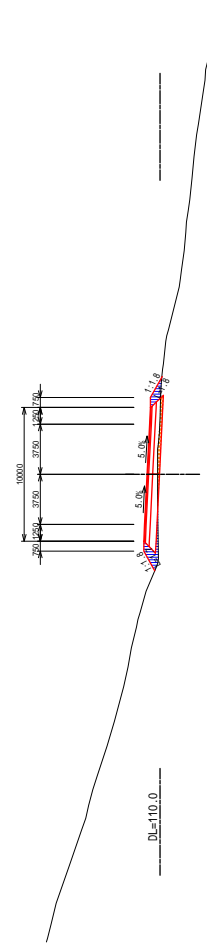
PK 199+0	
Excavation	0.0 m
Spill Slope	0.8 m
Enbankment	0.9 m
Spill Slope	1.4 m
Spill Slope	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	1.4 m
Left Side	1.4 m
Right Side	1.7 m

PK199  
GH=111.51  
PH=112.384



PK 199+100	
Excavation	0.0 m
Spill Slope	1.2 m
Enbankment	2.4 m
Spill Slope	0.0 m
Spill Slope	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	1.7 m
Left Side	1.7 m
Right Side	1.8 m

PK199+100  
GH=110.17  
PH=110.954



REPUBLIQUE DE DJIBOUTI  
MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS  
DIRECTION DE L'EQUIPEMENT



JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

THE PREPARATORY SURVEY FOR  
THE PROJECT FOR  
UPGRADING OF NATIONAL ROAD ROUTE 1  
IN THE REPUBLIC OF DJIBOUTI

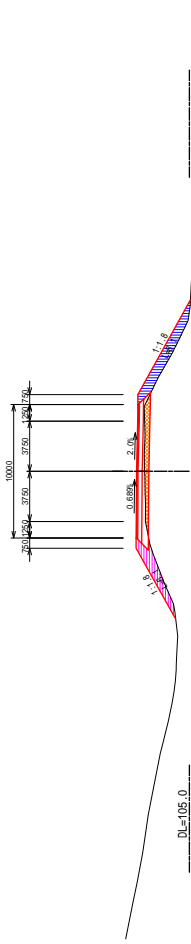
SHEET CONTENTS  
CROSS SECTION  
PK199+000 ~ PK199+150

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<b>PK 199+250</b>	
Excavation	0.0 m
Shoulder Cut	3.1 m
Enbankment	5.4 m
Shoulder Fill	0.0 m
Excavation Slope	2.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	6.1 m
Length of Enbankment Slope	0.0 m
Left Side	6.1 m
Right Side	6.1 m

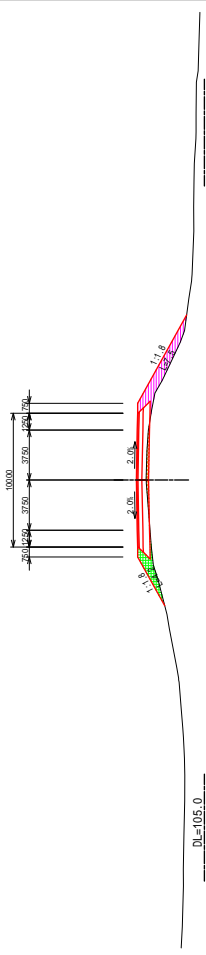
**PK199+250**  
GH=108.35  
PH=108.869



DL=105.0

<b>PK 199+350</b>	
Excavation	0.0 m
Shoulder Cut	0.9 m
Enbankment	0.0 m
Shoulder Fill	2.9 m
Excavation Slope	2.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	4.2 m
Length of Enbankment Slope	0.0 m
Left Side	4.2 m
Right Side	4.2 m

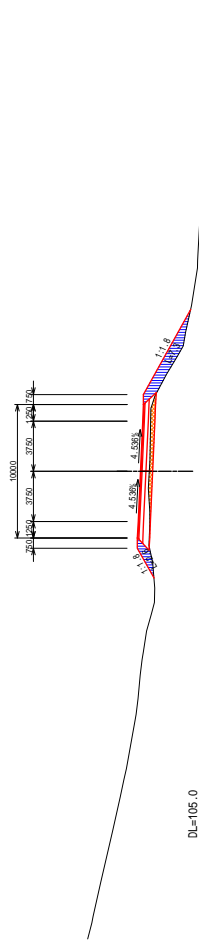
**PK199+350**  
GH=108.36  
PH=110.104



DL=105.0

<b>PK 199+200</b>	
Excavation	0.0 m
Shoulder Cut	2.3 m
Enbankment	6.3 m
Shoulder Fill	0.0 m
Excavation Slope	2.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	2.6 m
Length of Enbankment Slope	0.0 m
Left Side	2.6 m
Right Side	7.3 m

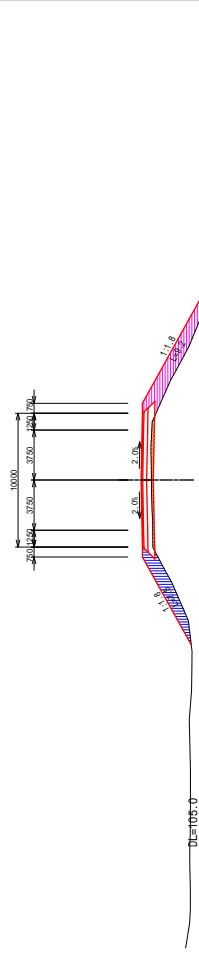
**PK199+200**  
GH=108.79  
PH=109.454



DL=105.0

<b>PK 199+300</b>	
Excavation	0.0 m
Shoulder Cut	1.6 m
Enbankment	6.0 m
Shoulder Fill	8.3 m
Excavation Slope	2.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	7.5 m
Length of Enbankment Slope	0.0 m
Left Side	7.5 m
Right Side	9.2 m

**PK199+300**  
GH=108.63  
PH=109.404



DL=105.0



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JAPAN INTERNATIONAL COOPERATION AGENCY  
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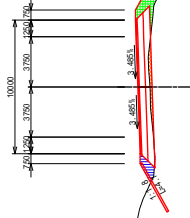
THE PREPARATORY SURVEY FOR  
THE PROJECT FOR  
UPGRADING OF NATIONAL ROAD ROUTE 1  
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CROSS SECTION  
PK199+200 ~ PK199+350

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PK 199+550	
Excavation	0.0 m
Embankment	1.1 m
Length of Excavation Slope	0.0 m
Length of Embankment Slope	1.1 m
Left Slope	1:1
Right Slope	1:1
Length of Excavation Slope	0.0 m
Length of Embankment Slope	1.1 m
Left Slope	1:1
Right Slope	1:1

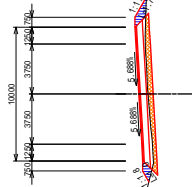
PK199+550  
 GH=108.25  
 PH=109.164



DL=105.0

PK 199+450	
Excavation	0.0 m
Embankment	4.0 m
Length of Excavation Slope	1.5 m
Length of Embankment Slope	0.0 m
Left Slope	1:1
Right Slope	1:1
Length of Excavation Slope	0.0 m
Length of Embankment Slope	4.0 m
Left Slope	1:1
Right Slope	1:1

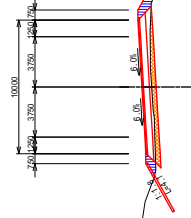
PK199+450  
 GH=110.12  
 PH=110.810



DL=105.0

PK 199+500	
Excavation	0.0 m
Embankment	3.3 m
Length of Excavation Slope	2.9 m
Length of Embankment Slope	0.0 m
Left Slope	1:1
Right Slope	1:1
Length of Excavation Slope	0.0 m
Length of Embankment Slope	3.3 m
Left Slope	1:1
Right Slope	1:1

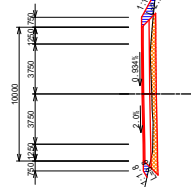
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DL=105.0

PK 199+400	
Excavation	0.0 m
Embankment	4.3 m
Length of Excavation Slope	1.4 m
Length of Embankment Slope	0.0 m
Left Slope	1:1
Right Slope	1:1
Length of Excavation Slope	0.0 m
Length of Embankment Slope	4.3 m
Left Slope	1:1
Right Slope	1:1

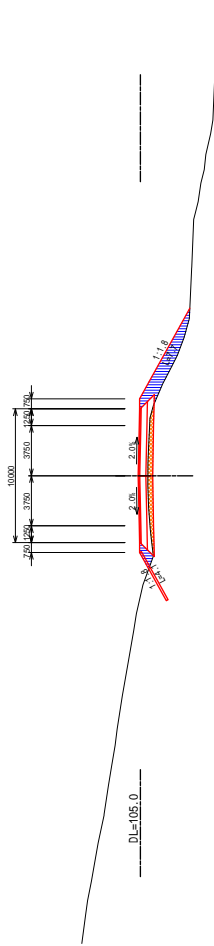
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 PH=110.747



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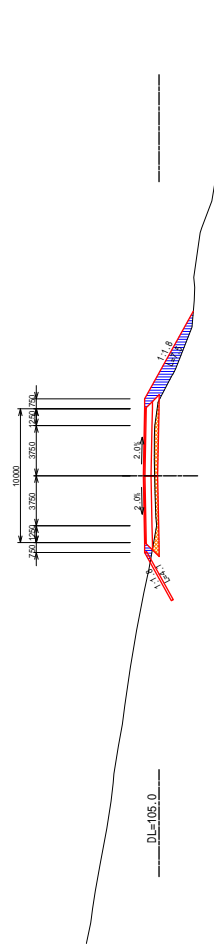
PK	199+750
Excavation	0.0 m
Shoulder Cut	3.3 m
Enbankment	7.1 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	3.8 m
Right Slope	7.2 m

PK199+750  
GH=104.45  
PH=105.164



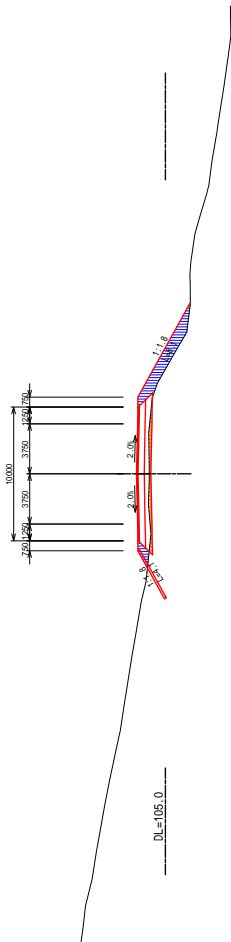
PK	199+700
Excavation	0.0 m
Shoulder Cut	2.9 m
Enbankment	6.1 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	3.6 m
Right Slope	7.5 m

PK199+700  
GH=105.32  
PH=106.164



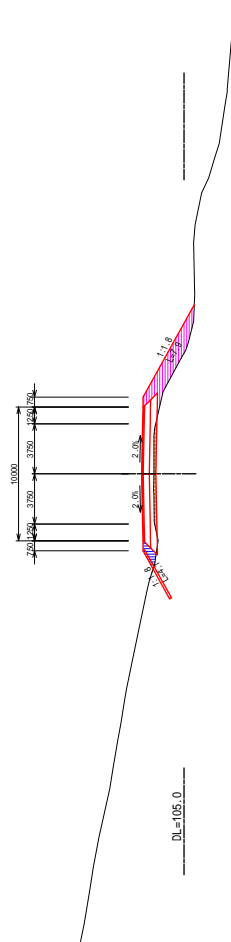
PK	199+650
Excavation	0.0 m
Shoulder Cut	1.5 m
Enbankment	6.5 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	3.8 m
Right Slope	6.1 m

PK199+650  
GH=106.22  
PH=107.164



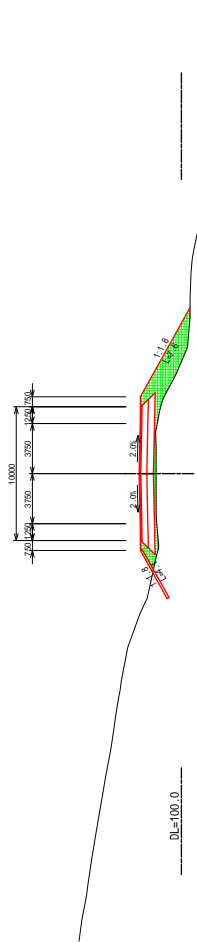
PK	199+600
Excavation	0.0 m
Shoulder Cut	1.4 m
Enbankment	1.0 m
Shoulder	7.5 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	3.6 m
Right Slope	7.9 m

PK199+600  
GH=107.25  
PH=108.164



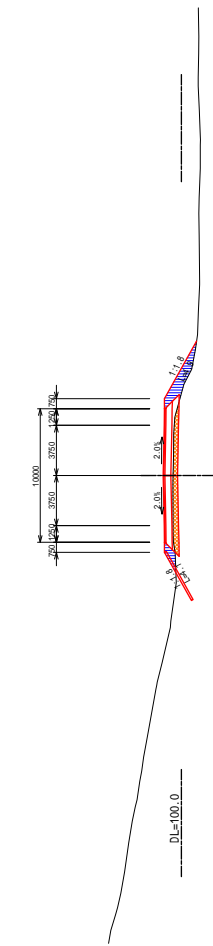
PK 199+850	
Excavation	0.0 m
Shoulder Cut	3.9 m
Enchantment	4.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	4.1 m
Left Slope	4.1 n
Right Slope	4.8 m

PK199+850  
GH=101.89  
PH=103.164



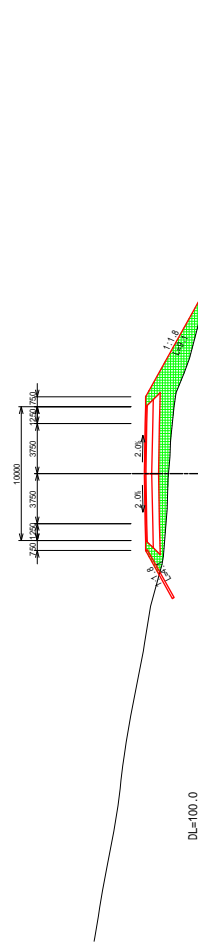
PK 199+850	
Excavation	0.0 m
Shoulder Cut	0.0 m
Enchantment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	3.7 m
Left Slope	3.7 n
Right Slope	7.6 m

PK199+850  
GH=101.89  
PH=103.164



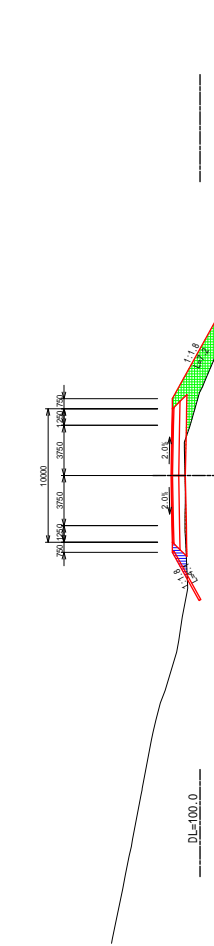
PK 199+900	
Excavation	0.0 m
Shoulder Cut	0.6 m
Enchantment	1.3 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	4.1 m
Left Slope	4.1 n
Right Slope	7.2 m

PK199+900  
GH=101.12  
PH=102.164



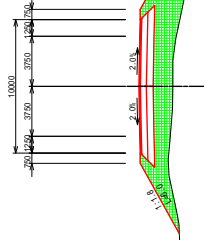
PK 199+800	
Excavation	0.0 m
Shoulder Cut	0.0 m
Enchantment	0.0 m
Length of Excavation Slope	20 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	3.9 m
Left Slope	3.9 n
Right Slope	9.1 m

PK199+800  
GH=102.35  
PH=104.164



PK 200+150	
Excavation	0.0 m
Shoulder Cut	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	6.0 m
Left Side	6.0 m
Right Side	6.0 m

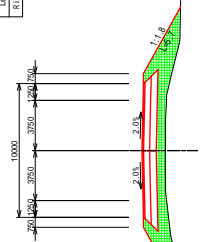
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DL=95.0

PK 200+50	
Excavation	0.0 m
Shoulder Cut	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	20.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	6.2 m
Left Side	6.2 m
Right Side	6.7 m

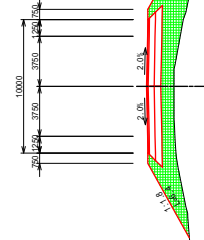
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DL=95.0

PK 200+100	
Excavation	0.0 m
Shoulder Cut	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	2.9 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	6.4 m
Left Side	6.4 m
Right Side	7.1 m

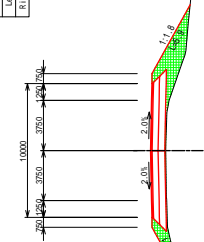
PK200+100  
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DL=95.0

PK 200+0	
Excavation	0.0 m
Shoulder Cut	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	10.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	4.1 m
Left Side	4.1 m
Right Side	5.9 m

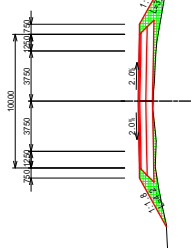
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DL=95.0

PK	200+350
Excavation	0.0
Shoulder	0.0
Subgrade	0.0
Embankment	0.0
Length of Excavation Slope	0.0
Length of Embankment Slope	4.2
Left Side	4.2
Right Side	3.8

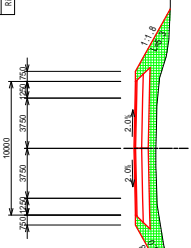
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GH=100.04  
PH=101.164



DL=95.0

PK	200+250
Excavation	0.0
Shoulder	0.0
Subgrade	0.0
Embankment	0.0
Length of Excavation Slope	0.0
Length of Embankment Slope	5.0
Left Side	5.0
Right Side	3.3

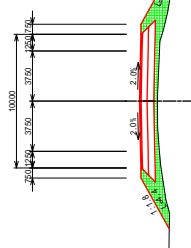
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DL=95.0

PK	200+300
Excavation	0.0
Shoulder	0.0
Subgrade	0.0
Embankment	0.0
Length of Excavation Slope	0.0
Length of Embankment Slope	4.4
Left Side	4.4
Right Side	4.3

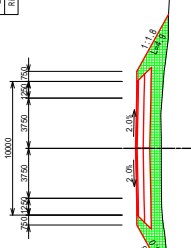
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DL=95.0

PK	200+200
Excavation	0.0
Shoulder	0.0
Subgrade	0.0
Embankment	0.0
Length of Excavation Slope	0.0
Length of Embankment Slope	4.9
Left Side	4.9
Right Side	4.3

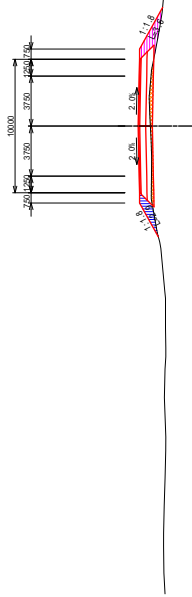
PK200+200  
GH=99.69  
PH=101.614



DL=95.0

PK 200+450	
Excavation	
PK 200+444.504	0.0 m
PK 200+450.000	1.9 m
Embankment	
PK 200+450.000	1.5 m
PK 200+450.000	0.0 m
PK 200+450.000	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	2.9 m
Right Side	3.0 m

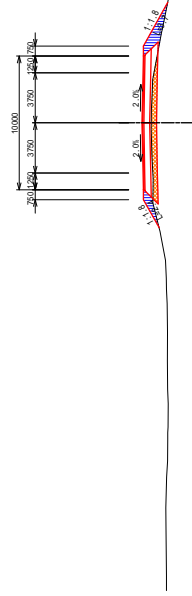
PK200+450  
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PH=100.864



DL=95.0

PK 200+550	
Excavation	
PK 200+544.504	0.0 m
PK 200+550.000	3.7 m
Embankment	
PK 200+550.000	3.2 m
PK 200+550.000	0.0 m
PK 200+550.000	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	2.4 m
Right Side	3.7 m

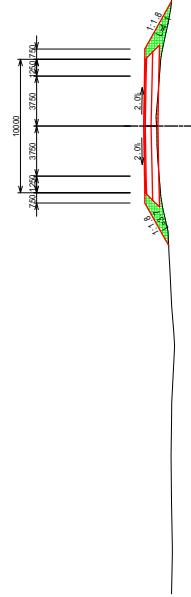
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PH=100.564



DL=95.0

PK 200+400	
Excavation	
PK 200+394.504	0.0 m
PK 200+400.000	0.4 m
Embankment	
PK 200+400.000	0.0 m
PK 200+400.000	3.7 m
PK 200+400.000	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	3.7 m
Right Side	4.1 m

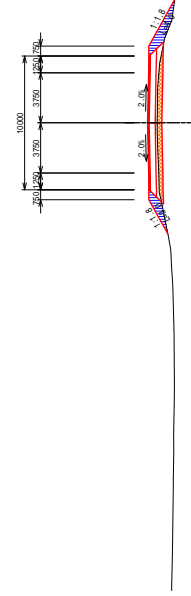
PK200+400  
GH=100.04  
PH=101.014



DL=95.0

PK 200+500	
Excavation	
PK 200+494.504	0.0 m
PK 200+500.000	3.5 m
Embankment	
PK 200+500.000	3.8 m
PK 200+500.000	0.0 m
PK 200+500.000	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	3.0 m
Right Side	4.0 m

PK200+500  
GH=99.98  
PH=100.714



DL=95.0



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JAPAN INTERNATIONAL COOPERATION AGENCY  
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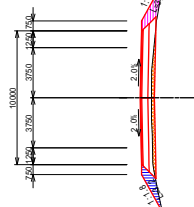
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PK200+400 ~ PK200+550

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PK 200+750	
Excavation	0.0 m
Shoulder	2.1 m
Enhancement	1.7 m
Shoulder	0.0 m
Shoulder	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	3.2 m
Left Slope	3.4 m
Right Slope	3.4 m

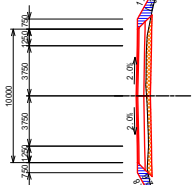
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 CH=69.11  
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DL=95.0

PK 200+650	
Excavation	0.0 m
Shoulder	3.4 m
Enhancement	2.9 m
Shoulder	0.0 m
Shoulder	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	2.8 m
Left Slope	3.3 m
Right Slope	3.3 m

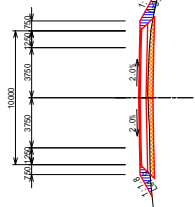
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 PH=100.264



DL=95.0

PK 200+700	
Excavation	0.0 m
Shoulder	3.8 m
Enhancement	2.5 m
Shoulder	0.0 m
Shoulder	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	1.9 m
Left Slope	3.2 m
Right Slope	3.2 m

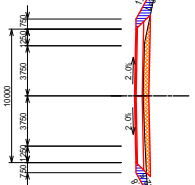
PK200+700  
 CH=69.42  
 PH=100.114



DL=95.0

PK 200+600	
Excavation	0.0 m
Shoulder	4.2 m
Enhancement	2.8 m
Shoulder	0.0 m
Shoulder	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	2.5 m
Left Slope	3.4 m
Right Slope	3.4 m

PK200+600  
 CH=69.76  
 PH=100.414

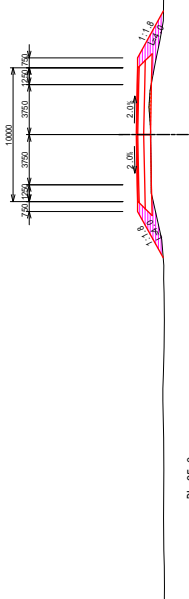


DL=95.0



PK 200+850	
Excavation	0.0 m
Shoulder	0.3 m
Enchantment	0.0 m
Shoulder	0.0 m
Shoulder	0.0 m
Shoulder	0.0 m
Shoulder	0.0 m
Shoulder	0.0 m
Length of Enchantment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	4.0 m
Left Slope	4.0 n
Right Slope	4.0 n

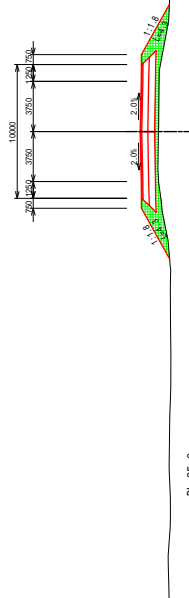
PK200+850  
GH=88.57  
PH=89.664



DL=95.0

PK 200+950	
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Shoulder	0.0 m
Shoulder	0.0 m
Shoulder	0.0 m
Shoulder	0.0 m
Length of Enchantment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	4.3 m
Left Slope	4.3 n
Right Slope	4.3 n

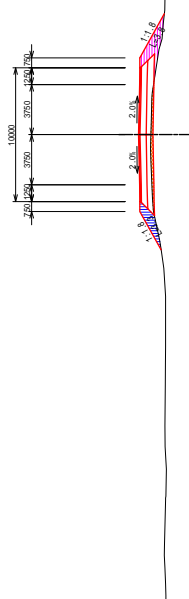
PK200+950  
GH=88.00  
PH=89.364



DL=95.0

PK 200+800	
Excavation	0.0 m
Shoulder	1.3 m
Enchantment	1.8 m
Shoulder	2.8 m
Shoulder	2.8 m
Shoulder	0.0 m
Length of Enchantment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	3.3 m
Left Slope	3.3 n
Right Slope	3.3 n

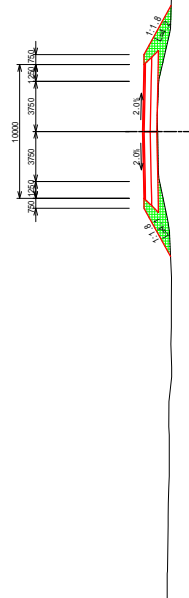
PK200+800  
GH=89.88  
PH=89.814



DL=95.0

PK 200+900	
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Shoulder	2.8 m
Shoulder	2.8 m
Shoulder	0.0 m
Length of Enchantment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	4.1 m
Left Slope	4.1 n
Right Slope	4.1 n

PK200+900  
GH=88.39  
PH=89.514



DL=95.0



REPUBLIQUE DE DJIBOUTI  
MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS  
DIRECTION DE L'EQUIPEMENT

JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

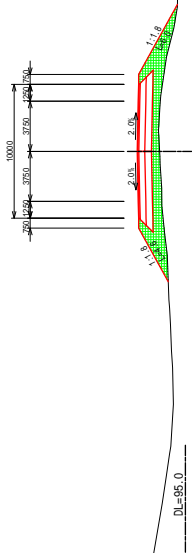
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IN THE REPUBLIC OF DJIBOUTI

SHEET CONTENTS  
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PK200+800 ~ PK200+950

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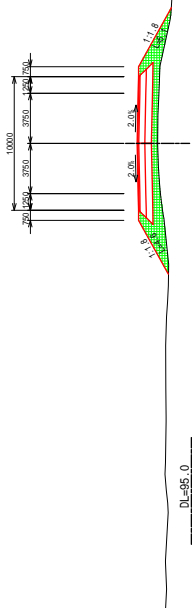
PK 201+150	
Excavation	0.0 m
Spill 0.0%	0.0 m
Enlargement	0.0 m
Spill 1.0%	0.0 m
Spill 2.0%	0.0 m
Spill 3.0%	0.0 m
Spill 4.0%	0.0 m
Spill 5.0%	0.0 m
Spill 6.0%	0.0 m
Spill 7.0%	0.0 m
Spill 8.0%	0.0 m
Spill 9.0%	0.0 m
Spill 10.0%	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enlargement Slope	4.8 m
Left Side	4.8 m
Right Side	0.0 m

PK201+150  
GH=86.94  
PH=88.614



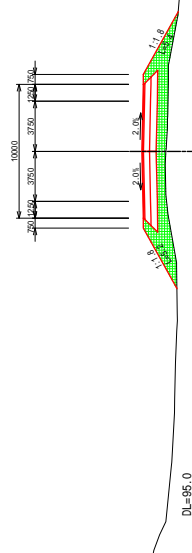
PK 201+50	
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Spill 0.0%	0.0 m
Enlargement	0.0 m
Spill 1.0%	0.0 m
Spill 2.0%	0.0 m
Spill 3.0%	0.0 m
Spill 4.0%	0.0 m
Spill 5.0%	0.0 m
Spill 6.0%	0.0 m
Spill 7.0%	0.0 m
Spill 8.0%	0.0 m
Spill 9.0%	0.0 m
Spill 10.0%	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enlargement Slope	4.8 m
Left Side	4.8 m
Right Side	0.0 m

PK201+50  
GH=97.63  
PH=99.064



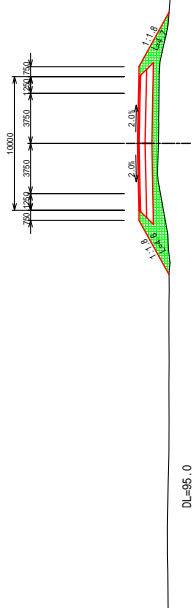
PK 201+100	
Excavation	0.0 m
Spill 0.0%	0.0 m
Enlargement	0.0 m
Spill 1.0%	0.0 m
Spill 2.0%	0.0 m
Spill 3.0%	0.0 m
Spill 4.0%	0.0 m
Spill 5.0%	0.0 m
Spill 6.0%	0.0 m
Spill 7.0%	0.0 m
Spill 8.0%	0.0 m
Spill 9.0%	0.0 m
Spill 10.0%	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enlargement Slope	5.2 m
Left Side	5.2 m
Right Side	0.0 m

PK201+100  
GH=97.49  
PH=98.888



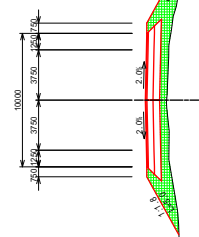
PK 201+0	
Excavation	0.0 m
Spill 0.0%	0.0 m
Enlargement	0.0 m
Spill 1.0%	0.0 m
Spill 2.0%	0.0 m
Spill 3.0%	0.0 m
Spill 4.0%	0.0 m
Spill 5.0%	0.0 m
Spill 6.0%	0.0 m
Spill 7.0%	0.0 m
Spill 8.0%	0.0 m
Spill 9.0%	0.0 m
Spill 10.0%	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enlargement Slope	4.6 m
Left Side	4.6 m
Right Side	0.0 m

PK201  
GH=97.66  
PH=99.214



PK	201+250
Excavation	0.0 m
Shoulder Slope	0.0 m
Enchantment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.1 m
Left Side	5.1 m
Right Side	5.2 m

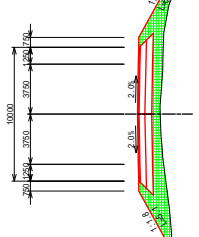
PK201+250  
 GH=86.29  
 PH=88.014



DL=80.0

PK	201+350
Excavation	0.0 m
Shoulder Slope	0.0 m
Enchantment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.0 m
Left Side	5.0 m
Right Side	5.2 m

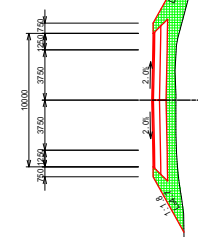
PK201+350  
 GH=95.83  
 PH=97.414



DL=80.0

PK	201+200
Excavation	0.0 m
Shoulder Slope	0.0 m
Enchantment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.0 m
Left Side	5.0 m
Right Side	5.2 m

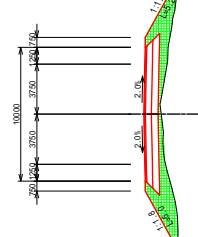
PK201+200  
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 PH=88.314



DL=80.0

PK	201+300
Excavation	0.0 m
Shoulder Slope	0.0 m
Enchantment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.7 m
Left Side	4.7 m
Right Side	5.4 m

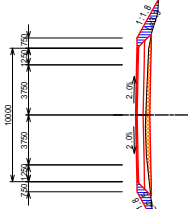
PK201+300  
 GH=95.81  
 PH=97.714



DL=80.0

PK	201+550
Excavation	0.0 m
200% Slope	3.0 m
Enbankment	3.3 m
200% Slope	3.3 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	2.5 m
Left Side	3.3 m
Right Side	3.3 m

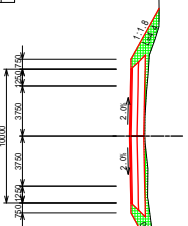
PK201+550  
GH=95.60  
PH=96.354



DL=90.0

PK	201+450
Excavation	0.0 m
200% Slope	0.0 m
Enbankment	0.0 m
200% Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.0 m
Left Side	4.4 m
Right Side	4.4 m

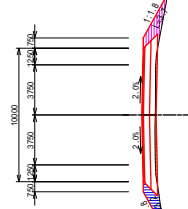
PK201+450  
GH=95.65  
PH=96.814



DL=90.0

PK	201+500
Excavation	0.0 m
200% Slope	1.0 m
Enbankment	1.9 m
200% Slope	2.3 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	3.2 m
Left Side	3.2 m
Right Side	3.7 m

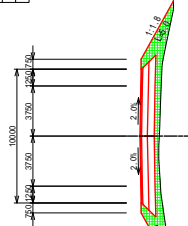
PK201+500  
GH=95.51  
PH=96.514



DL=90.0

PK	201+400
Excavation	0.0 m
200% Slope	0.0 m
Enbankment	0.0 m
200% Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.5 m
Left Side	5.0 m
Right Side	5.0 m

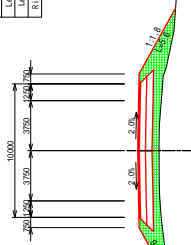
PK201+400  
GH=95.65  
PH=97.114



DL=90.0

PK 201+750	
Excavation	0.0 m
2000mm S&G	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
2.5m S&G	0.0 m
3m S&G	0.0 m
Length of Embankment Slope	10.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	4.8 m
Left Slope	4.2 n
Right Slope	4.8 n

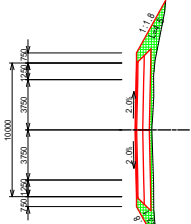
PK201+750  
GH=66.62  
PH=68.214



DL=60.0

PK 201+650	
Excavation	0.0 m
2000mm S&G	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
2.5m S&G	0.0 m
3m S&G	0.0 m
Length of Embankment Slope	10.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	3.1 m
Left Slope	4.0 n
Right Slope	4.0 n

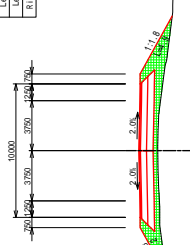
PK201+650  
GH=65.96  
PH=67.214



DL=60.0

PK 201+700	
Excavation	0.0 m
2000mm S&G	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
2.5m S&G	0.0 m
3m S&G	1.9 m
Length of Embankment Slope	10.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	4.2 m
Left Slope	4.2 n
Right Slope	4.8 n

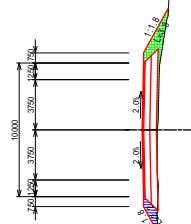
PK201+700  
GH=66.23  
PH=67.714



DL=60.0

PK 201+600	
Excavation	0.0 m
2000mm S&G	0.0 m
Shoulder	0.0 m
Enbankment	1.2 m
2.5m S&G	0.0 m
3m S&G	3.2 m
Length of Embankment Slope	10.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	2.2 m
Left Slope	3.8 n
Right Slope	3.8 n

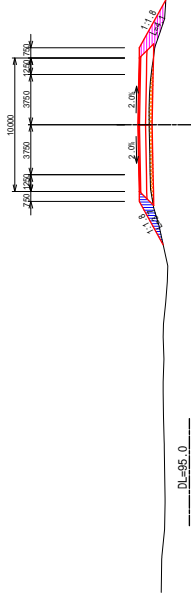
PK201+600  
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DL=60.0

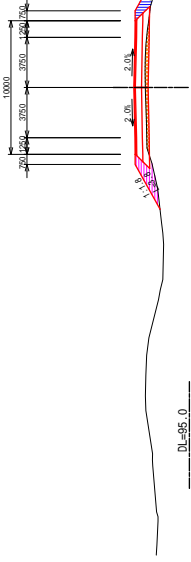
PK 201+850	
Excavation	0.0 m
20m <sup>3</sup> of earth	2.1 m
Enlargement	1.9 m
20m <sup>3</sup> of earth	0.0 m
Length of Enlargement Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Left Slope	3.7 a
Right Slope	4.1 a

PK201+850  
GH=68.02  
PH=68.864



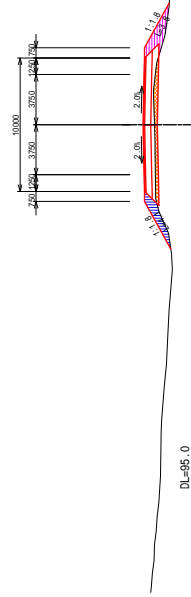
PK 201+950	
Excavation	0.0 m
20m <sup>3</sup> of earth	2.0 m
Enlargement	2.2 m
20m <sup>3</sup> of earth	0.0 m
Length of Enlargement Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Left Slope	3.8 a
Right Slope	3.7 a

PK201+950  
GH=68.30  
PH=69.164



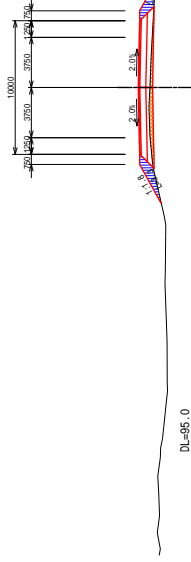
PK 201+800	
Excavation	0.0 m
20m <sup>3</sup> of earth	2.6 m
Enlargement	2.1 m
20m <sup>3</sup> of earth	2.6 m
Length of Enlargement Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Left Slope	4.1 a
Right Slope	3.8 a

PK201+800  
GH=67.80  
PH=68.653



PK 201+900	
Excavation	0.0 m
20m <sup>3</sup> of earth	2.2 m
Enlargement	3.2 m
20m <sup>3</sup> of earth	0.0 m
Length of Enlargement Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Left Slope	3.3 a
Right Slope	2.8 a

PK201+900  
GH=68.15  
PH=69.014



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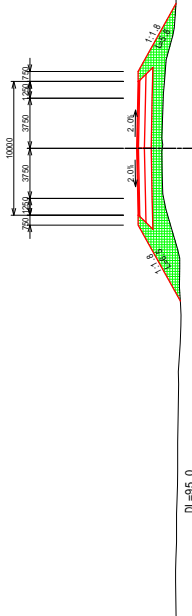
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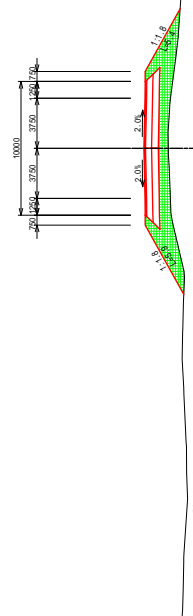
PK 202+150	
Excavation	0.0 m
Spill Out	0.0 m
Enlargement	0.0 m
Length of Excavation Slope	20.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enlargement Slope	6.5 m
Left Side	3.8 m
Right Side	3.8 m

PK202+150  
GH=97.56  
PH=99.464



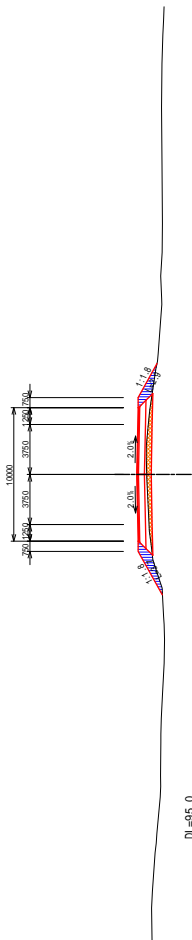
PK 202+100	
Excavation	0.0 m
Spill Out	0.0 m
Enlargement	0.0 m
Length of Excavation Slope	21.5 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enlargement Slope	5.9 m
Left Side	3.4 m
Right Side	3.4 m

PK202+100  
GH=97.74  
PH=99.561



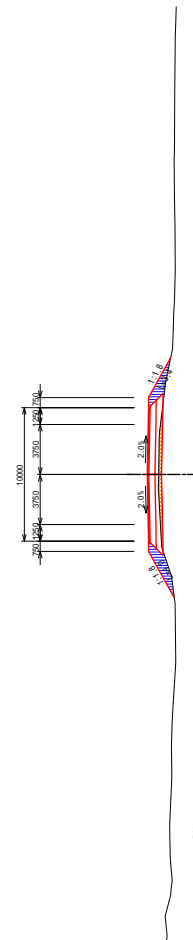
PK 202+50	
Excavation	0.0 m
Spill Out	3.1 m
Enlargement	3.5 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enlargement Slope	3.7 m
Left Side	2.0 m
Right Side	2.0 m

PK202+50  
GH=98.72  
PH=99.464



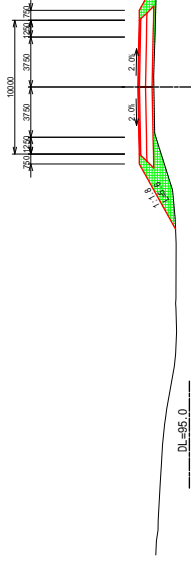
PK 202+0	
Excavation	0.0 m
Spill Out	1.3 m
Enlargement	4.4 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enlargement Slope	4.0 m
Left Side	3.4 m
Right Side	3.4 m

PK202  
GH=98.46  
PH=99.314



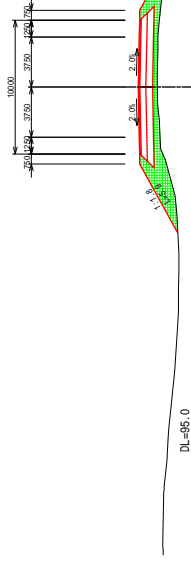
PK 202+350	
Excavation	0.0 m
Spore Side Cut	0.0 m
Embankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	6.6 m
Left Side	3.8 m
Right Side	2.8 m

PK202+350  
GH=97.67  
PH=98.864



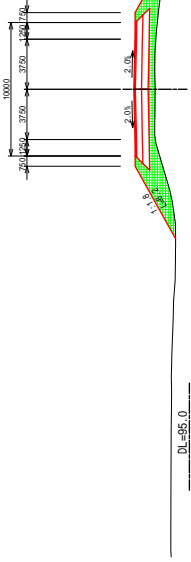
PK 202+300	
Excavation	0.0 m
Spore Side Cut	0.0 m
Embankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.9 m
Left Side	4.5 m
Right Side	4.5 m

PK202+300  
GH=97.69  
PH=99.014



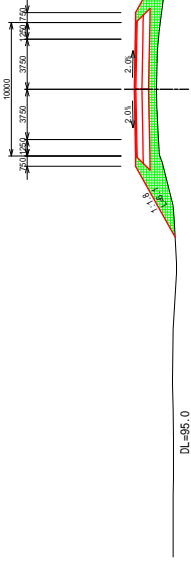
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Excavation	0.0 m
Spore Side Cut	0.0 m
Embankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	6.2 m
Left Side	4.0 m
Right Side	4.0 m

PK202+250  
GH=97.58  
PH=99.164



PK 202+200	
Excavation	0.0 m
Spore Side Cut	0.0 m
Embankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	6.1 m
Left Side	5.7 m
Right Side	5.7 m

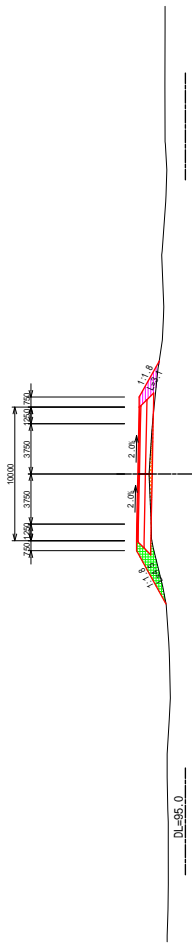
PK202+200  
GH=97.65  
PH=99.314





PK	202+450
Excavation	0.0 m
Shoulder Cut	1.0 m
Embankment	0.0 m
Shoulder	1.9 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Right Slope	4.5 m
Right Side	3.1 m

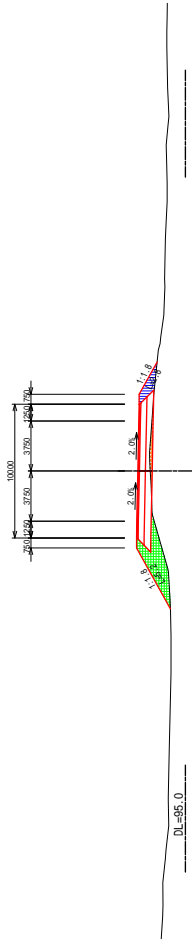
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DL=95.0

PK	202+450
Excavation	0.0 m
Shoulder Cut	0.8 m
Embankment	1.6 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Right Slope	5.2 m
Right Side	2.8 m

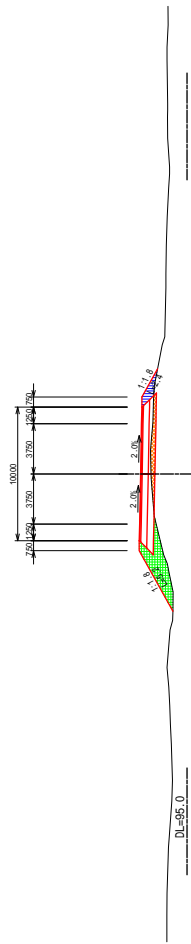
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DL=95.0

PK	202+500
Excavation	0.0 m
Shoulder Cut	2.1 m
Embankment	1.2 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Right Slope	6.2 m
Right Side	2.4 m

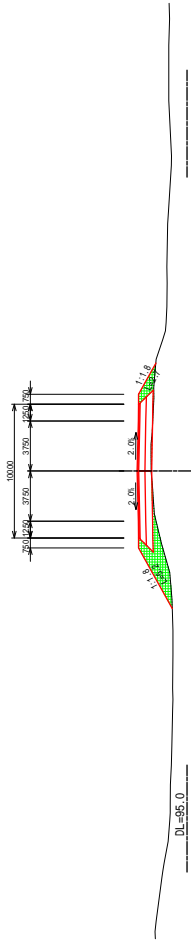
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DL=95.0

PK	202+400
Excavation	0.0 m
Shoulder Cut	0.2 m
Embankment	0.0 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Right Slope	5.2 m
Right Side	2.7 m

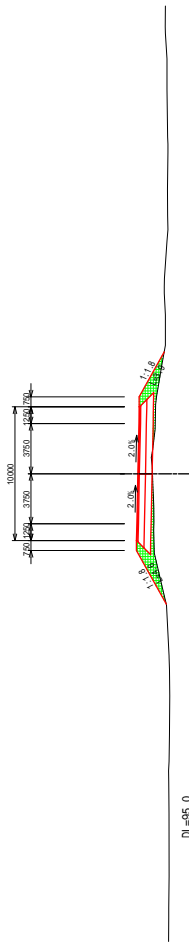
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DL=95.0

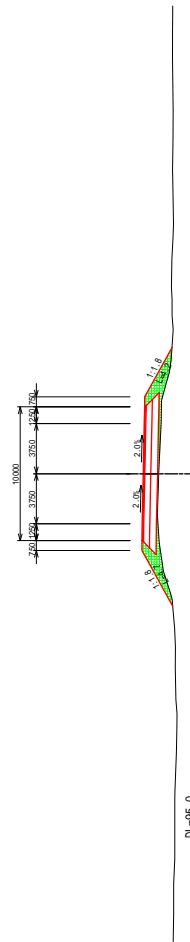
PK	202+750
Excavation	0.0 m
200234467501	0.0 m
200234467502	0.1 m
Enchantment	0.0 m
200234467503	0.0 m
200234467504	0.0 m
200234467505	0.0 m
200234467506	0.0 m
200234467507	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enchantment Slope	4.8 m
Left Slope	4.8 m
Right Slope	3.9 m

PK202+750  
GH=98.07  
PH=99.164



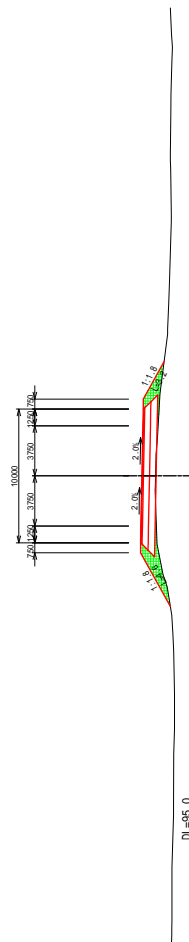
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Excavation	0.0 m
20023446701	0.0 m
20023446702	0.0 m
Enchantment	0.0 m
20023446703	0.0 m
20023446704	0.0 m
20023446705	0.0 m
20023446706	0.0 m
20023446707	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enchantment Slope	4.7 m
Left Slope	4.7 m
Right Slope	4.2 m

PK202+700  
GH=97.86  
PH=99.014



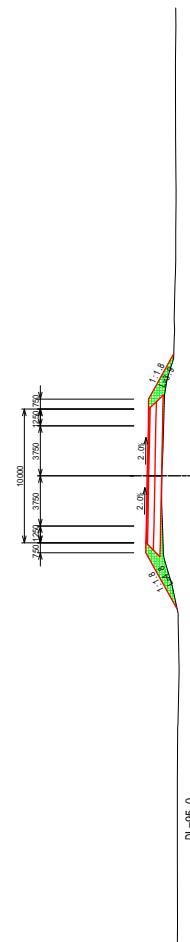
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Excavation	0.0 m
20023446651	0.0 m
20023446652	0.1 m
Enchantment	0.0 m
20023446653	0.0 m
20023446654	0.0 m
20023446655	0.0 m
20023446656	0.0 m
20023446657	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enchantment Slope	4.8 m
Left Slope	4.8 m
Right Slope	3.2 m

PK202+650  
GH=97.83  
PH=98.864



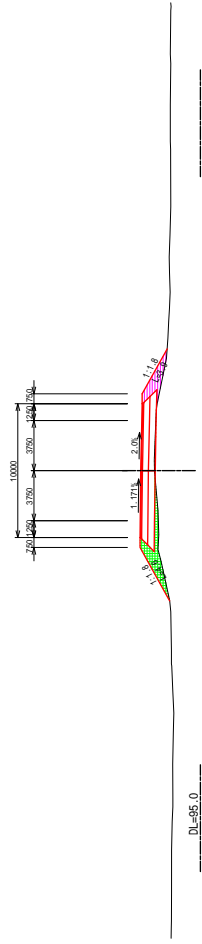
PK	202+600
Excavation	0.0 m
20023446601	0.0 m
20023446602	0.0 m
Enchantment	0.0 m
20023446603	0.0 m
20023446604	0.0 m
20023446605	0.0 m
20023446606	0.0 m
20023446607	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enchantment Slope	4.9 m
Left Slope	4.9 m
Right Slope	3.9 m

PK202+600  
GH=97.63  
PH=98.714



PK	202+850
Excavation	0.0 m
2002346F501	0.2 m
2002346F502	0.3 m
Enchantment	0.0 m
2002346F503	2.1 m
2002346F504	0.4 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	4.5 m
Left Slope	4.5 n
Right Slope	3.8 m

PK202+850  
GH=98.44  
PH=99.464

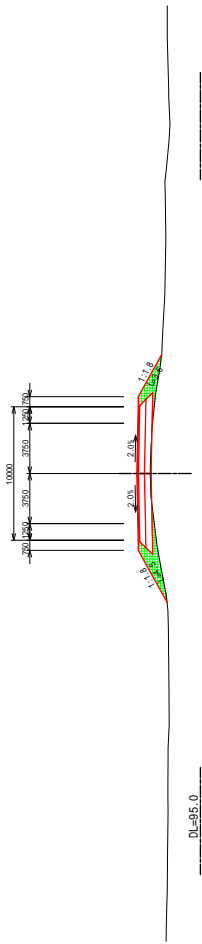


DL=95.0

PK	202+850
Excavation	0.0 m
2002346F501	0.2 m
2002346F502	0.3 m
Enchantment	0.0 m
2002346F503	2.1 m
2002346F504	0.4 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	4.5 m
Left Slope	4.5 n
Right Slope	3.8 m

PK	202+950
Excavation	0.0 m
2002346F501	0.3 m
Enchantment	0.0 m
2002346F502	0.4 m
2002346F503	0.4 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	4.5 m
Left Slope	4.5 n
Right Slope	3.8 m

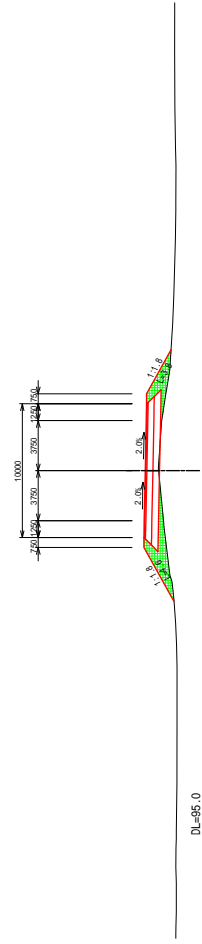
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PH=99.764



DL=95.0

PK	202+800
Excavation	0.0 m
2002346F501	0.1 m
Enchantment	0.0 m
2002346F502	0.0 m
2002346F503	8.0 m
2002346F504	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	4.6 m
Left Slope	4.6 n
Right Slope	3.8 m

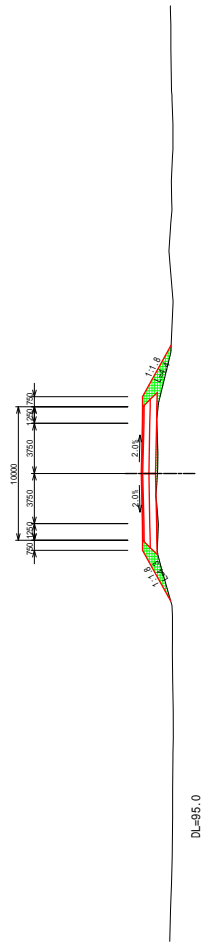
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GH=98.32  
PH=99.314



DL=95.0

PK	202+900
Excavation	0.0 m
2002346F501	0.0 m
Enchantment	0.0 m
2002346F502	0.0 m
2002346F503	0.0 m
2002346F504	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	4.3 m
Left Slope	4.3 n
Right Slope	4.4 m

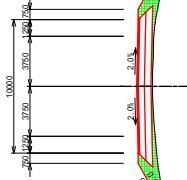
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PH=99.614



DL=95.0

PK 203+150	
Excavation	0.0 m
Open Cut	0.0 m
Embankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.0 m
Left Side	4.0 m
Right Side	4.0 m

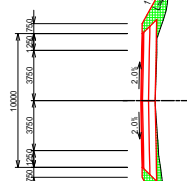
PK203+150  
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DL=95.0

PK 203+50	
Excavation	0.0 m
Open Cut	0.0 m
Embankment	0.0 m
Length of Excavation Slope	7.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	3.9 m
Left Side	3.9 m
Right Side	4.2 m

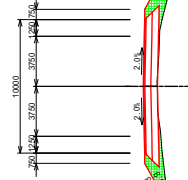
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DL=95.0

PK 203+100	
Excavation	0.0 m
Open Cut	0.1 m
Embankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	3.9 m
Left Side	3.9 m
Right Side	4.5 m

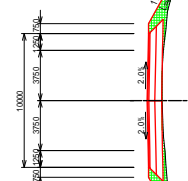
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DL=95.0

PK 203+0	
Excavation	0.0 m
Open Cut	0.0 m
Embankment	0.0 m
Length of Excavation Slope	8.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	3.3 m
Left Side	3.3 m
Right Side	4.2 m

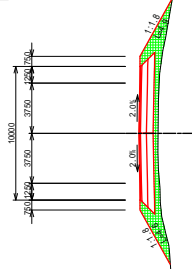
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DL=95.0

PK 203+250	
Excavation	0.0 m
Subgrade	0.0 m
Embankment	0.0 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Length of Embankment Slope	4.8 m
Left Side	4.8 m
Right Side	4.8 m

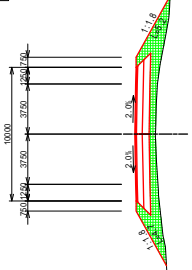
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DL=95.0

PK 203+350	
Excavation	0.0 m
Subgrade	0.0 m
Embankment	0.0 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Length of Embankment Slope	4.7 m
Left Side	4.7 m
Right Side	4.7 m

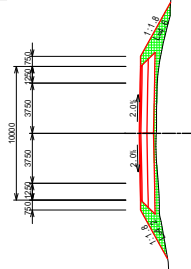
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DL=95.0

PK 203+200	
Excavation	0.0 m
Subgrade	0.0 m
Embankment	0.0 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Length of Embankment Slope	4.2 m
Left Side	4.2 m
Right Side	4.2 m

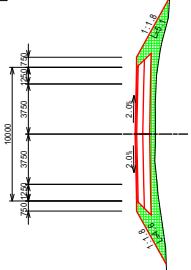
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DL=95.0

PK 203+300	
Excavation	0.0 m
Subgrade	0.0 m
Embankment	0.0 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Length of Embankment Slope	4.6 m
Left Side	4.6 m
Right Side	5.1 m

PK203+300  
GH=99.30  
PH=100.814



DL=95.0



REPUBLIQUE DE DJIBOUTI  
MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS  
DIRECTION DE L'EQUIPEMENT



JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

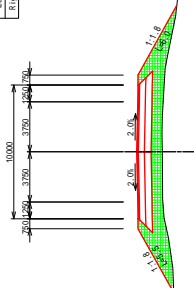
THE PREPARATORY SURVEY FOR  
THE PROJECT FOR  
UPGRADING OF NATIONAL ROAD ROUTE 1  
IN THE REPUBLIC OF DJIBOUTI

SHEET CONTENTS  
CROSS SECTION  
PK203+200 ~ PK203+350

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PK	203+550
Excavation	
203+544.000	0.0 m
203+545.000	0.0 m
Embankment	
203+545.000	0.0 m
203+546.000	0.0 m
203+547.000	20.8 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	5.5 m
Right Side	6.0 m

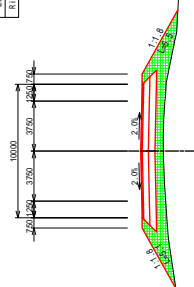
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DL=95.0

PK	203+450
Excavation	
203+444.000	0.0 m
203+445.000	0.0 m
Embankment	
203+445.000	0.0 m
203+446.000	17.2 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	5.1 m
Right Side	5.0 m

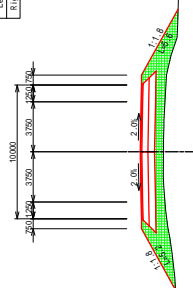
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DL=95.0

PK	203+500
Excavation	
203+494.000	0.0 m
203+495.000	0.0 m
Embankment	
203+495.000	0.0 m
203+496.000	17.7 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	5.2 m
Right Side	5.6 m

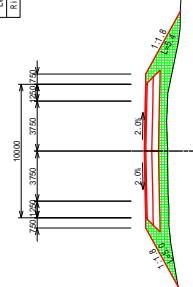
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PH=101.414



DL=95.0

PK	203+400
Excavation	
203+394.000	0.0 m
203+395.000	0.0 m
Embankment	
203+395.000	0.0 m
203+396.000	18.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	5.0 m
Right Side	5.4 m

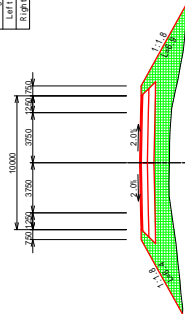
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DL=95.0

PK	203+750
Excavation	0.0 m
Subgrade	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	30.7 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	6.4 m
Left Slope	6.8 m
Right Slope	6.8 m

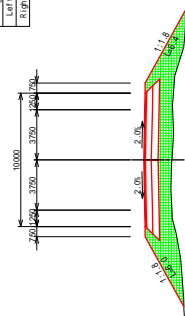
PK203+750  
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DL=95.0

PK	203+650
Excavation	0.0 m
Subgrade	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	30.7 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	6.0 m
Left Slope	6.4 m
Right Slope	6.4 m

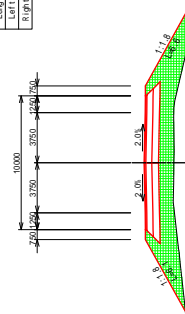
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DL=95.0

PK	203+700
Excavation	0.0 m
Subgrade	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	26.3 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	6.1 m
Left Slope	6.8 m
Right Slope	6.8 m

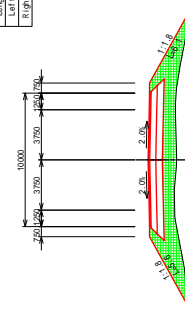
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DL=95.0

PK	203+600
Excavation	0.0 m
Subgrade	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	22.8 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	5.6 m
Left Slope	6.1 m
Right Slope	6.1 m

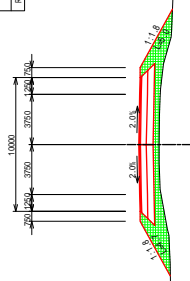
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DL=95.0

PK	203+850
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Subgrade	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	0.0 m
Left Slope	4.7 n
Right Slope	5.0 n

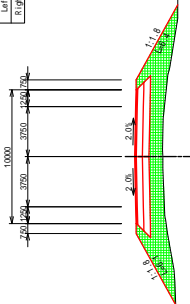
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DL=95.0

PK	203+850
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Subgrade	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	6.1 n
Left Slope	6.4 n

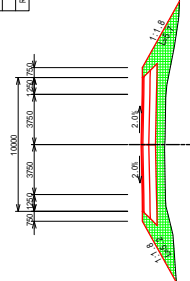
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PH=102.164



DL=95.0

PK	203+900
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Subgrade	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	5.2 n
Left Slope	5.2 n

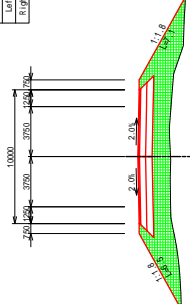
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PH=102.014



DL=95.0

PK	203+800
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Subgrade	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	6.5 n
Left Slope	7.1 n

PK203+800  
GH=99.82  
PH=102.261

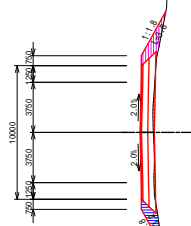


DL=95.0



PK	204+50
Excavation	0.0 m
Spillway	0.7 m
Enbankment	1.9 m
Length of Enbankment Slope	4.2 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.2 m
Left Side	3.8 m
Right Side	3.8 m

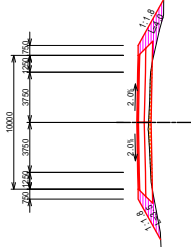
PK204+50  
GH=100.61  
PH=101.617



DL=95.0

PK	204+150
Excavation	0.0 m
Spillway	1.3 m
Enbankment	0.0 m
Length of Enbankment Slope	3.2 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.5 m
Left Side	4.0 m
Right Side	4.0 m

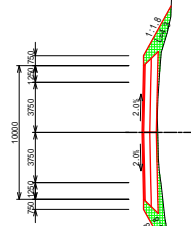
PK204+150  
GH=100.98  
PH=101.864



DL=95.0

PK	204+0
Excavation	0.0 m
Spillway	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	4.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.8 m
Left Side	4.3 m
Right Side	4.3 m

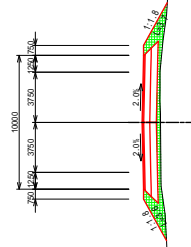
PK204  
GH=100.55  
PH=101.714



DL=95.0

PK	204+100
Excavation	0.0 m
Spillway	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	3.3 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.6 m
Left Side	3.7 m
Right Side	3.7 m

PK204+100  
GH=100.34  
PH=101.714



DL=95.0



REPUBLIQUE DE DJIBOUTI  
MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS  
DIRECTION DE L'EQUIPEMENT

JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

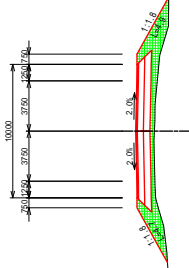
THE PREPARATORY SURVEY FOR  
THE PROJECT FOR  
UPGRADING OF NATIONAL ROAD ROUTE 1  
IN THE REPUBLIC OF DJIBOUTI

SHEET CONTENTS  
CROSS SECTION  
PK204+000 ~ PK204+150

SCALE S=1:400  
DATE NOV 2018  
PAGE NO. 53 / 131

PK	204+250
Excavation	0.0 m
Shoulder Slope	0.0 m
Enchantment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Enchantment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	0.0 m
Left Side	4.3 m
Right Side	4.3 m

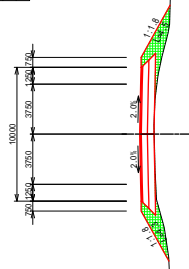
PK204+250  
 GH=101.08  
 PH=102.164



DL=95.0

PK	204+350
Excavation	0.0 m
Shoulder Slope	0.0 m
Enchantment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Enchantment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	0.0 m
Left Side	4.7 m
Right Side	4.8 m

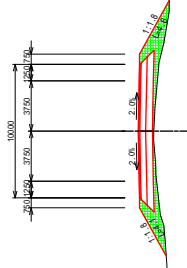
PK204+350  
 GH=101.08  
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DL=95.0

PK	204+200
Excavation	0.0 m
Shoulder Slope	1.0 m
Enchantment	0.0 m
Shoulder Slope	5.8 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Enchantment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	0.0 m
Left Side	3.8 m
Right Side	4.1 m

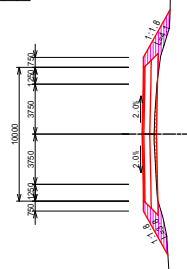
PK204+200  
 GH=101.12  
 PH=102.014



DL=95.0

PK	204+300
Excavation	0.0 m
Shoulder Slope	0.0 m
Enchantment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Enchantment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	0.0 m
Left Side	4.1 m
Right Side	4.6 m

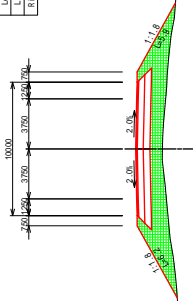
PK204+300  
 GH=101.13  
 PH=102.314



DL=95.0

PK 204+550	
Excavation	0.0 m <sup>3</sup>
200% Slope Soil	0.0 m <sup>3</sup>
300% Slope Soil	0.0 m <sup>3</sup>
Embankment	0.0 m <sup>3</sup>
2.5% to 4.0%	0.0 m <sup>3</sup>
4.0% to 6.0%	26.2 m <sup>3</sup>
6.0% to 8.0%	0.0 m <sup>3</sup>
8.0% to 10.0%	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

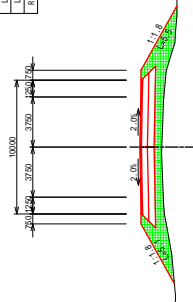
PK204+550  
GH=101.07  
PH=103.064



DL=95.0

PK 204+450	
Excavation	0.0 m <sup>3</sup>
200% Slope Soil	0.0 m <sup>3</sup>
300% Slope Soil	0.0 m <sup>3</sup>
Embankment	0.0 m <sup>3</sup>
2.5% to 4.0%	0.0 m <sup>3</sup>
4.0% to 6.0%	17.0 m <sup>3</sup>
6.0% to 8.0%	0.0 m <sup>3</sup>
8.0% to 10.0%	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.1 m
Left Side	0.0 m
Right Side	0.0 m

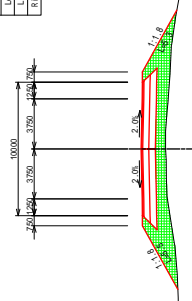
PK204+450  
GH=101.11  
PH=102.764



DL=95.0

PK 204+500	
Excavation	0.0 m <sup>3</sup>
200% Slope Soil	0.0 m <sup>3</sup>
300% Slope Soil	0.0 m <sup>3</sup>
Embankment	0.0 m <sup>3</sup>
2.5% to 4.0%	0.0 m <sup>3</sup>
4.0% to 6.0%	26.2 m <sup>3</sup>
6.0% to 8.0%	0.0 m <sup>3</sup>
8.0% to 10.0%	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

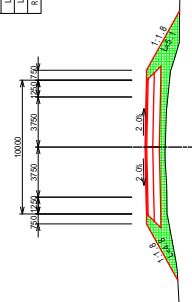
PK204+500  
GH=101.09  
PH=102.914



DL=95.0

PK 204+400	
Excavation	0.0 m <sup>3</sup>
200% Slope Soil	0.0 m <sup>3</sup>
300% Slope Soil	0.0 m <sup>3</sup>
Embankment	0.0 m <sup>3</sup>
2.5% to 4.0%	0.0 m <sup>3</sup>
4.0% to 6.0%	16.0 m <sup>3</sup>
6.0% to 8.0%	0.0 m <sup>3</sup>
8.0% to 10.0%	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.8 m
Left Side	0.0 m
Right Side	5.1 m

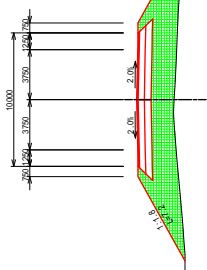
PK204+400  
GH=101.11  
PH=102.614



DL=95.0

PK	204+750
Excavation	0.0 m
Shoulder Slope	0.0 m
Enbankment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	40.2 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	7.2 m
Left Slope	7.2 m
Right Slope	7.3 m

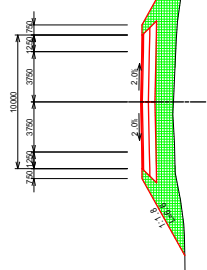
PK204+750  
 GH=100.87  
 PH=103.664



DL=95.0

PK	204+650
Excavation	0.0 m
Shoulder Slope	0.0 m
Enbankment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	32.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	6.8 m
Left Slope	6.8 m
Right Slope	6.8 m

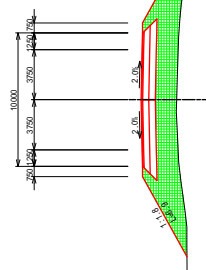
PK204+650  
 GH=100.91  
 PH=103.364



DL=95.0

PK	204+700
Excavation	0.0 m
Shoulder Slope	0.0 m
Enbankment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	35.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	6.9 m
Left Slope	6.9 m
Right Slope	7.4 m

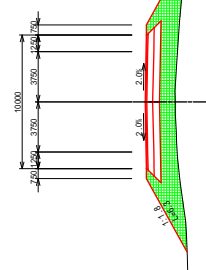
PK204+700  
 GH=100.86  
 PH=103.514



DL=95.0

PK	204+600
Excavation	0.0 m
Shoulder Slope	0.0 m
Enbankment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	28.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	6.3 m
Left Slope	6.3 m
Right Slope	6.5 m

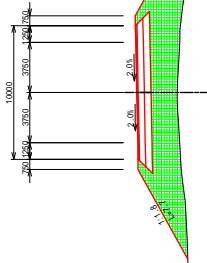
PK204+600  
 GH=100.96  
 PH=103.214



DL=95.0

PK	204+850
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	7.7 m
Left Slope	8.2 n
Right Slope	8.8 n

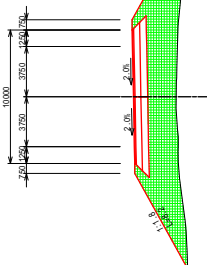
PK204+850  
Gh=100.71  
Ph=103.911



DL=95.0

PK	204+850
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	8.2 m
Left Slope	8.2 n
Right Slope	8.0 n

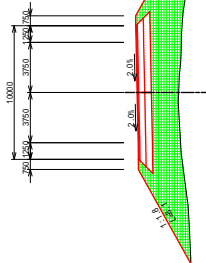
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Ph=103.911



DL=95.0

PK	204+900
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	9.1 m
Left Slope	9.1 n
Right Slope	8.8 n

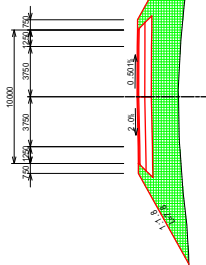
PK204+900  
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DL=95.0

PK	204+800
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	7.8 m
Left Slope	7.8 n
Right Slope	8.5 n

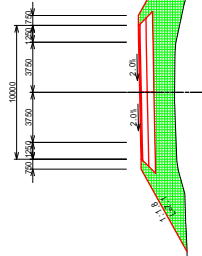
PK204+800  
Gh=100.72  
Ph=103.814



DL=95.0

PK	205+150
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	42.2 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	7.1 m
Right Side	8.4 m

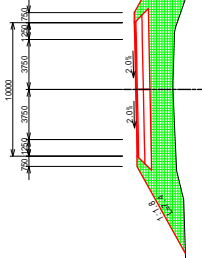
PK205+150  
 GH=100.45  
 PH=103.064



DL=95.0

PK	205+50
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	42.2 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	7.8 m
Right Side	8.8 m

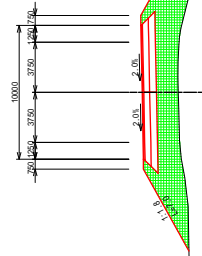
PK205+50  
 GH=100.57  
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DL=95.0

PK	205+100
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	43.8 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	7.0 m
Right Side	8.6 m

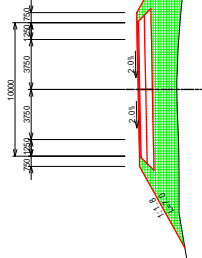
PK205+100  
 GH=100.51  
 PH=103.214



DL=95.0

PK	205+0
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	43.8 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	7.0 m
Right Side	8.2 m

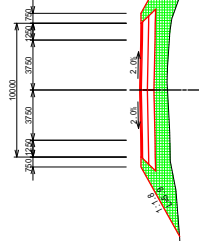
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 GH=100.61  
 PH=103.514



DL=95.0

PK	205+250
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

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GH=100.39  
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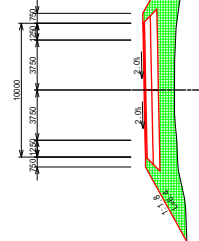


DL=95.0

PK	205+300
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

PK	205+300
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

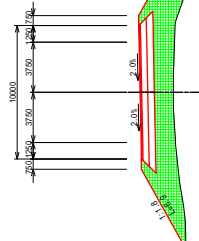
PK205+300  
GH=100.34  
PH=102.614



DL=95.0

PK	205+200
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

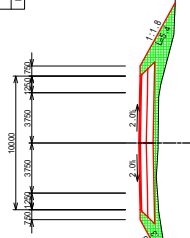
PK205+200  
GH=100.43  
PH=102.914



DL=95.0

PK 205+550		
Excavation	0.0	m
Shoulder Coat	0.0	m
Embankment	0.0	m
Length of Embankment Slope	0.0	m
Left Slope	1:1	
Right Slope	1:1.8	
Length of Embankment Slope	0.0	m
Left Slope	4.3	m
Right Slope	5.4	m

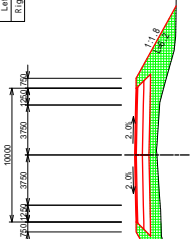
PK205+550  
 GH=100.42  
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DL=95.0

PK 205+450		
Excavation	0.0	m
Shoulder Coat	0.0	m
Embankment	0.0	m
Length of Embankment Slope	20.0	m
Left Slope	0.0	n
Right Slope	0.0	n
Length of Embankment Slope	5.4	m
Left Slope	6.2	m

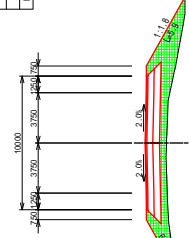
PK205+450  
 GH=100.50  
 PH=102.164



DL=95.0

PK 205+500		
Excavation	0.0	m
Shoulder Coat	0.0	m
Embankment	0.0	m
Length of Embankment Slope	0.0	m
Left Slope	1:1	
Right Slope	1:1.8	
Length of Embankment Slope	4.9	m
Left Slope	5.8	m

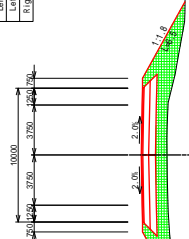
PK205+500  
 GH=100.42  
 PH=102.014



DL=95.0

PK 205+400		
Excavation	0.0	m
Shoulder Coat	0.0	m
Embankment	0.0	m
Length of Embankment Slope	20.0	m
Left Slope	0.0	n
Right Slope	0.0	n
Length of Embankment Slope	5.5	m
Left Slope	6.5	m

PK205+400  
 GH=100.38  
 PH=102.314

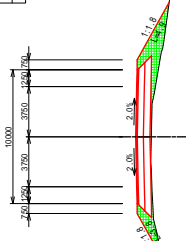


DL=95.0



PK	205+750
Excavation	0.0 m
2000/3000/5000	0.0 m
Enchantment	0.0 m
2000/3000/5000	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	3.4 m
Left Slope	3.4 n
Right Slope	4.9 m

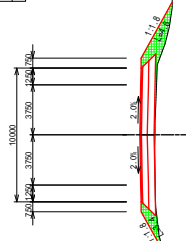
PK205+750  
GH=101.00  
PH=102.164



DL=95.0

PK	205+650
Excavation	0.0 m
2000/3000/5000	0.0 m
Enchantment	0.0 m
2000/3000/5000	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	3.4 m
Left Slope	3.4 n
Right Slope	4.9 m

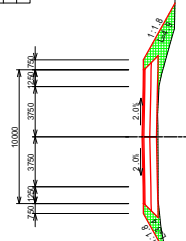
PK205+650  
GH=100.73  
PH=101.884



DL=95.0

PK	205+700
Excavation	0.0 m
2000/3000/5000	0.0 m
Enchantment	0.0 m
2000/3000/5000	0.0 m
Length of Excavation Slope	7.7 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	3.4 m
Left Slope	3.4 n
Right Slope	4.9 m

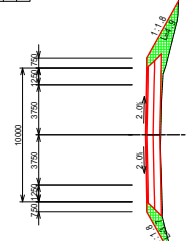
PK205+700  
GH=100.84  
PH=102.014



DL=95.0

PK	205+600
Excavation	0.0 m
2000/3000/5000	0.0 m
Enchantment	0.0 m
2000/3000/5000	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	3.7 m
Left Slope	3.7 n
Right Slope	4.9 m

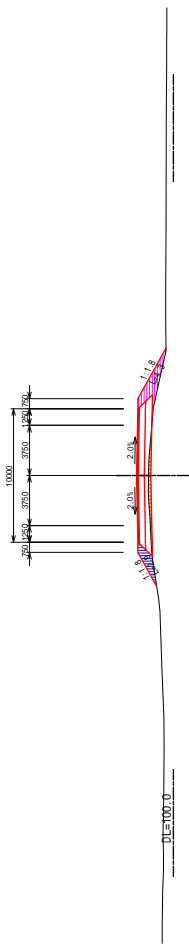
PK205+600  
GH=100.62  
PH=101.787



DL=95.0

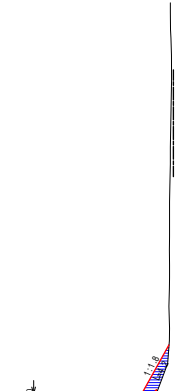
PK 205+850	
Excavation	0.0 m
Shoulder	2.5 m
Enbankment	4.1 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	2.9 m
Left Slope	2.9 n
Right Slope	4.2 n

PK205+850  
 GH=101.64  
 PH=102.464



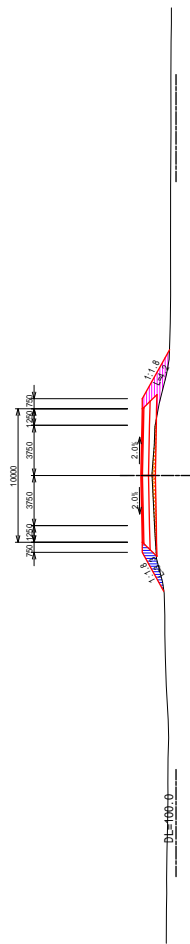
PK 205+950	
Excavation	0.0 m
Shoulder	1.2 m
Enbankment	1.6 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	2.8 m
Left Slope	2.8 n
Right Slope	4.3 n

PK205+950  
 GH=101.86  
 PH=102.764



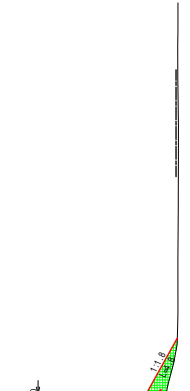
PK 205+800	
Excavation	0.0 m
Shoulder	0.2 m
Enbankment	1.9 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	3.1 m
Left Slope	3.1 n
Right Slope	4.3 n

PK205+800  
 GH=101.27  
 PH=102.314



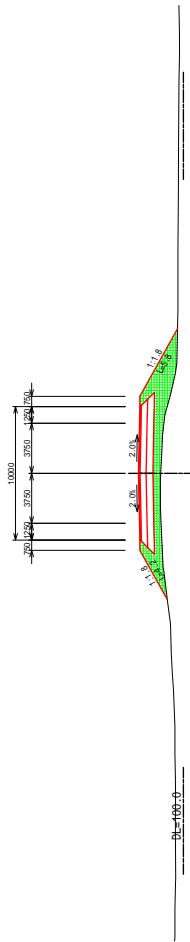
PK 205+900	
Excavation	0.0 m
Shoulder	1.6 m
Enbankment	1.7 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	3.3 m
Left Slope	3.3 n
Right Slope	4.2 n

PK205+900  
 GH=101.78  
 PH=102.614



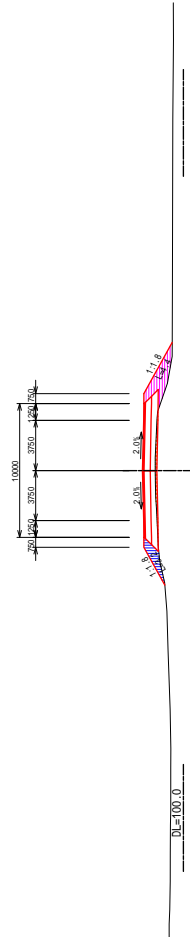
PK 206+150	
Excavation	0.0 m
Open Cut	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	4.2 m
Left Side	2.1 m
Right Side	2.1 m

PK206+150  
GH=101.70  
PH=103.364



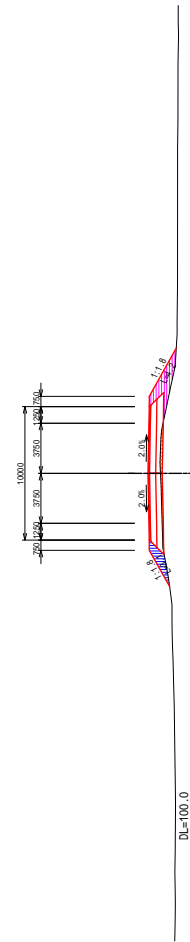
PK 206+50	
Excavation	0.0 m
Open Cut	0.9 m
Enbankment	1.7 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.2 m
Left Side	1.6 m
Right Side	1.6 m

PK206+50  
GH=102.12  
PH=103.064



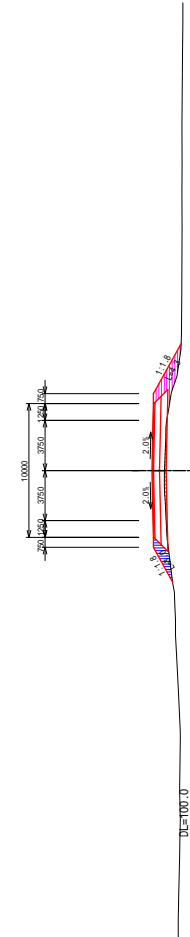
PK 206+100	
Excavation	0.0 m
Open Cut	1.1 m
Enbankment	1.7 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.1 m
Left Side	1.55 m
Right Side	1.55 m

PK206+100  
GH=102.28  
PH=103.214



PK 206+0	
Excavation	0.0 m
Open Cut	1.0 m
Enbankment	1.7 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.0 m
Left Side	1.5 m
Right Side	1.5 m

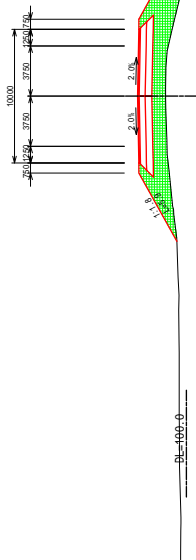
PK206  
GH=101.98  
PH=102.914



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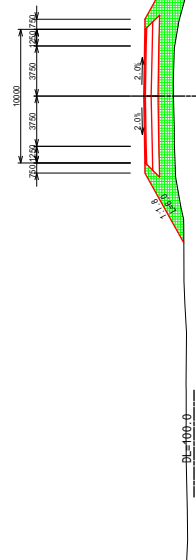
PK 206+350	
Excavation	0.0 m
Shoulder Slope	0.0 m
Embankment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	27.5 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.9 m
Left Side	5.9 m
Right Side	6.8 m

PK206+350  
 GH=101.36  
 PH=103.664



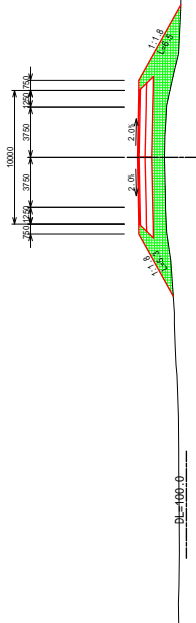
PK 206+300	
Excavation	0.0 m
Shoulder Slope	0.0 m
Embankment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	27.2 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	6.0 m
Left Side	6.0 m
Right Side	6.8 m

PK206+300  
 GH=101.32  
 PH=103.761



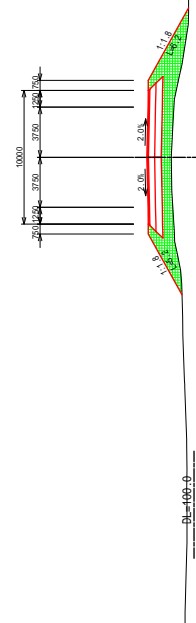
PK 206+250	
Excavation	0.0 m
Shoulder Slope	0.0 m
Embankment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	26.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.3 m
Left Side	5.3 m
Right Side	6.0 m

PK206+250  
 GH=101.65  
 PH=103.664



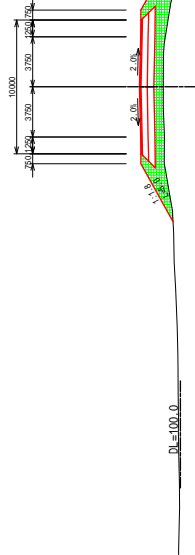
PK 206+200	
Excavation	0.0 m
Shoulder Slope	0.0 m
Embankment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	27.3 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.2 m
Left Side	5.2 m
Right Side	6.2 m

PK206+200  
 GH=101.69  
 PH=103.514



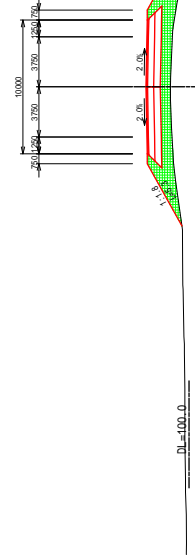
PK 206+550	
Excavation	
206+544.000	0.0 m
206+550.000	0.0 m
Embankment	
206+550.000	0.0 m
206+550.000	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	5.0 m
Right Side	5.8 m

PK206+550  
GH=101.28  
PH=103.064



PK 206+500	
Excavation	
206+494.000	0.0 m
206+500.000	0.0 m
Embankment	
206+500.000	0.0 m
206+500.000	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	5.3 m
Right Side	5.9 m

PK206+500  
GH=101.38  
PH=103.214



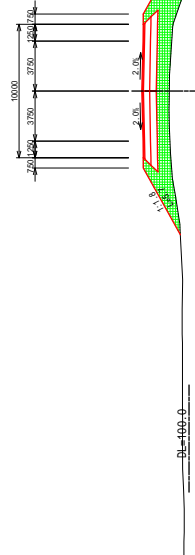
PK 206+450	
Excavation	
206+344.000	0.0 m
206+450.000	0.0 m
Embankment	
206+450.000	0.0 m
206+450.000	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	5.5 m
Right Side	6.2 m

PK206+450  
GH=101.27  
PH=103.384



PK 206+400	
Excavation	
206+344.000	0.0 m
206+400.000	0.0 m
Embankment	
206+400.000	0.0 m
206+400.000	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	
Left Side	5.7 m
Right Side	6.5 m

PK206+400  
GH=101.47  
PH=103.514



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DIRECTION DE L'EQUIPEMENT



JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

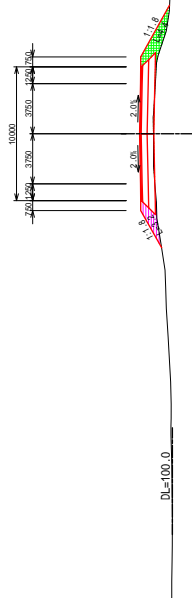
THE PREPARATORY SURVEY FOR  
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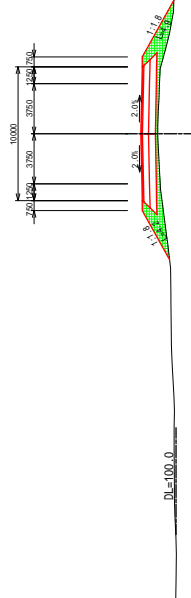
PK 206+750	
Elevation (m)	
Proposed Road	0.0
Shoulder	0.3
Enbankment	0.0
Subgrade	0.0
Subgrade	0.0
Subgrade	3.3
Subgrade	3.3
Length of Enbankment Slope	0.0
Left Slope	0.0
Right Slope	0.0
Length of Enbankment Slope	3.2
Left Slope	4.4
Right Slope	4.4

PK206+750  
 GH=101.43  
 PH=102.464



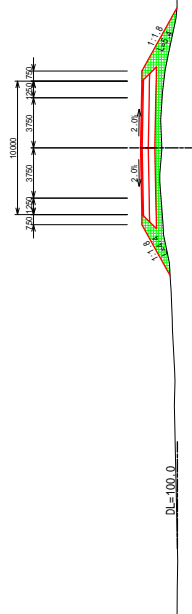
PK 206+700	
Elevation (m)	
Proposed Road	0.0
Shoulder	0.0
Enbankment	0.0
Subgrade	0.0
Subgrade	0.0
Subgrade	0.2
Subgrade	0.2
Length of Enbankment Slope	0.0
Left Slope	0.0
Right Slope	0.0
Length of Enbankment Slope	4.2
Left Slope	4.2
Right Slope	4.3

PK206+700  
 GH=101.35  
 PH=102.614



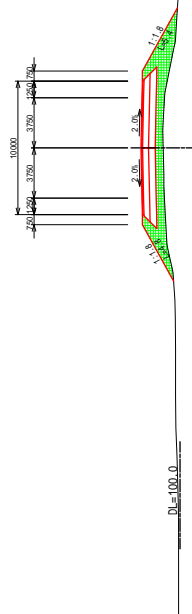
PK 206+650	
Elevation (m)	
Proposed Road	0.0
Shoulder	0.0
Enbankment	0.0
Subgrade	0.0
Subgrade	0.0
Subgrade	3.0
Subgrade	3.0
Length of Enbankment Slope	0.0
Left Slope	0.0
Right Slope	0.0
Length of Enbankment Slope	4.4
Left Slope	5.4
Right Slope	5.4

PK206+650  
 GH=101.18  
 PH=102.764



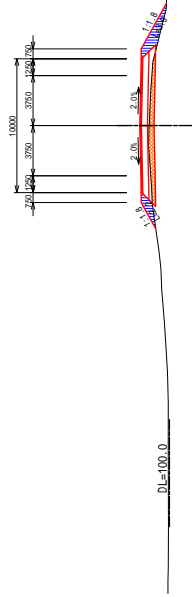
PK 206+600	
Elevation (m)	
Proposed Road	0.0
Shoulder	0.0
Enbankment	0.0
Subgrade	0.0
Subgrade	0.0
Subgrade	0.0
Subgrade	0.0
Length of Enbankment Slope	0.0
Left Slope	0.0
Right Slope	0.0
Length of Enbankment Slope	4.8
Left Slope	5.4
Right Slope	5.4

PK206+600  
 GH=101.26  
 PH=102.914



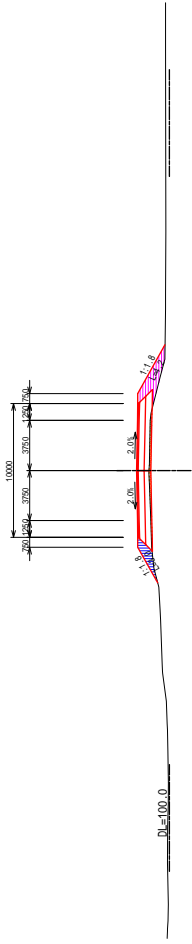
PK 206+850	
Excavation	0.0 m
206+849.500	3.5 m
Enchantment	
206+850.000	3.4 m
206+850.500	0.0 m
206+851.000	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	
Left Side	2.2 m
Right Side	3.9 m

**PK206+850**  
GH=101.52  
PH=102.217



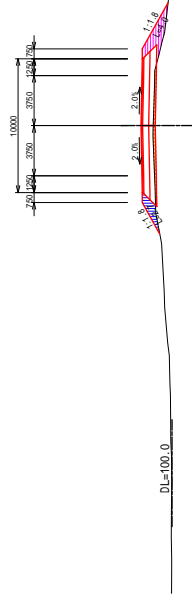
PK 206+950	
Excavation	0.0 m
206+949.500	1.1 m
Enchantment	
206+950.000	1.5 m
206+950.500	2.2 m
206+951.000	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	
Left Side	3.0 m
Right Side	4.2 m

**PK206+950**  
GH=101.34  
PH=102.464



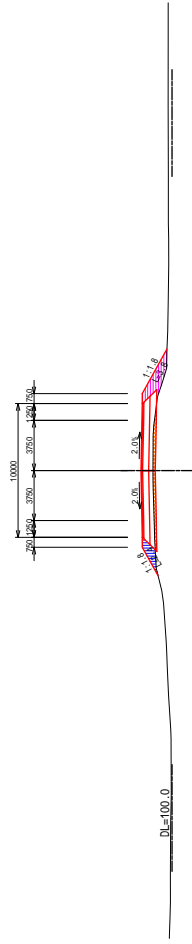
PK 206+800	
Excavation	0.0 m
206+799.500	1.5 m
Enchantment	
206+800.000	1.3 m
206+800.500	3.0 m
206+801.000	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	
Left Side	2.7 m
Right Side	4.0 m

**PK206+800**  
GH=101.40  
PH=102.314



PK 206+900	
Excavation	0.0 m
206+899.500	1.8 m
Enchantment	
206+900.000	1.2 m
206+900.500	2.7 m
206+901.000	0.0 m
Length of Excavation Slope	
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	
Left Side	2.4 m
Right Side	3.8 m

**PK206+900**  
GH=101.41  
PH=102.314



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JAPAN INTERNATIONAL COOPERATION AGENCY  
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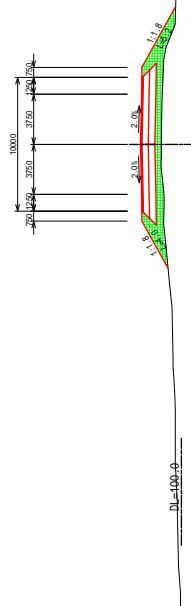
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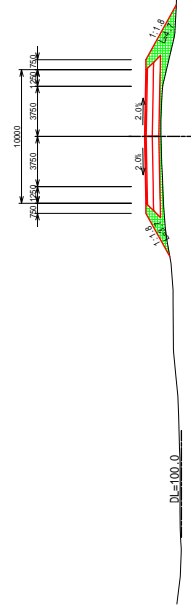
PK 207+150	
Excavation	0.0 m
Spillway	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	4.0 m
Left Side	2.0 m
Right Side	2.0 m

PK207+150  
GH=101.50  
PH=103.064



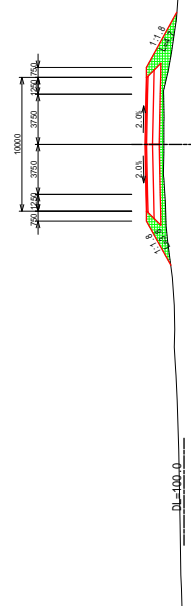
PK 207+50	
Excavation	0.0 m
Spillway	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.7 m
Left Side	1.9 m
Right Side	1.8 m

PK207+50  
GH=101.53  
PH=102.764



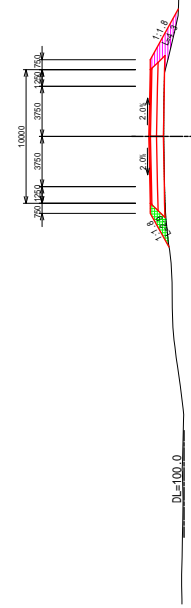
PK 207+100	
Excavation	0.0 m
Spillway	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.8 m
Left Side	1.9 m
Right Side	1.9 m

PK207+100  
GH=101.50  
PH=102.914



PK 207+0	
Excavation	0.0 m
Spillway	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	4.3 m
Left Side	2.9 m
Right Side	1.4 m

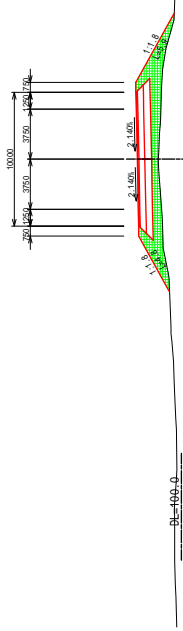
PK207  
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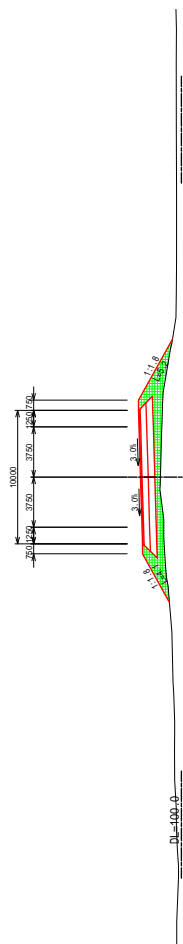
<b>PK 207+250</b>	
Excavation	0.0 m <sup>3</sup>
Spill 0.5%	0.0 m <sup>3</sup>
Enchantment	0.0 m <sup>3</sup>
Spill 1.5%	0.0 m <sup>3</sup>
Spill 2.5%	0.0 m <sup>3</sup>
Spill 3.5%	0.0 m <sup>3</sup>
Spill 4.5%	0.0 m <sup>3</sup>
Spill 5.5%	0.0 m <sup>3</sup>
Spill 6.5%	0.0 m <sup>3</sup>
Spill 7.5%	0.0 m <sup>3</sup>
Spill 8.5%	0.0 m <sup>3</sup>
Spill 9.5%	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	4.8 m
Right Side	5.8 m

**PK207+250**  
GH=101.72  
PH=103.311



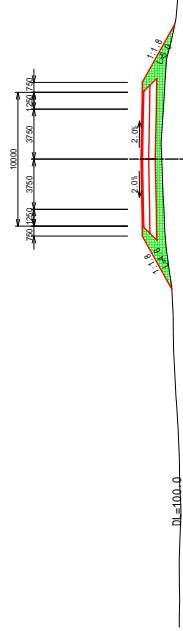
<b>PK 207+350</b>	
Excavation	0.0 m <sup>3</sup>
Spill 0.5%	0.0 m <sup>3</sup>
Enchantment	0.0 m <sup>3</sup>
Spill 1.5%	0.0 m <sup>3</sup>
Spill 2.5%	0.0 m <sup>3</sup>
Spill 3.5%	0.0 m <sup>3</sup>
Spill 4.5%	0.0 m <sup>3</sup>
Spill 5.5%	0.0 m <sup>3</sup>
Spill 6.5%	0.0 m <sup>3</sup>
Spill 7.5%	0.0 m <sup>3</sup>
Spill 8.5%	0.0 m <sup>3</sup>
Spill 9.5%	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.1 m
Left Side	4.1 m
Right Side	5.2 m

**PK207+350**  
GH=101.58  
PH=103.064



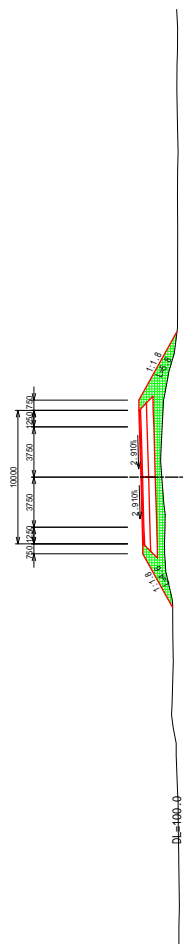
<b>PK 207+200</b>	
Excavation	0.0 m <sup>3</sup>
Spill 0.5%	0.0 m <sup>3</sup>
Enchantment	0.0 m <sup>3</sup>
Spill 1.5%	0.0 m <sup>3</sup>
Spill 2.5%	0.0 m <sup>3</sup>
Spill 3.5%	0.0 m <sup>3</sup>
Spill 4.5%	0.0 m <sup>3</sup>
Spill 5.5%	0.0 m <sup>3</sup>
Spill 6.5%	0.0 m <sup>3</sup>
Spill 7.5%	0.0 m <sup>3</sup>
Spill 8.5%	0.0 m <sup>3</sup>
Spill 9.5%	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.6 m
Left Side	4.6 m
Right Side	5.0 m

**PK207+200**  
GH=101.66  
PH=103.214



<b>PK 207+300</b>	
Excavation	0.0 m <sup>3</sup>
Spill 0.5%	0.0 m <sup>3</sup>
Enchantment	0.0 m <sup>3</sup>
Spill 1.5%	0.0 m <sup>3</sup>
Spill 2.5%	0.0 m <sup>3</sup>
Spill 3.5%	0.0 m <sup>3</sup>
Spill 4.5%	0.0 m <sup>3</sup>
Spill 5.5%	0.0 m <sup>3</sup>
Spill 6.5%	0.0 m <sup>3</sup>
Spill 7.5%	0.0 m <sup>3</sup>
Spill 8.5%	0.0 m <sup>3</sup>
Spill 9.5%	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.6 m
Left Side	4.6 m
Right Side	5.8 m

**PK207+300**  
GH=101.65  
PH=103.214



REPUBLIQUE DE DJIBOUTI  
MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS  
DIRECTION DE L'EQUIPEMENT

JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

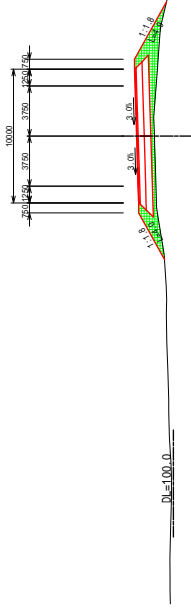
THE PREPARATORY SURVEY FOR  
THE PROJECT FOR  
UPGRADING OF NATIONAL ROAD ROUTE 1  
IN THE REPUBLIC OF DJIBOUTI

SHEET CONTENTS  
CROSS SECTION  
PK207+200 ~ PK207+350

SCALE S=1:400  
DATE NOV 2018  
PAGE NO. 69 / 131

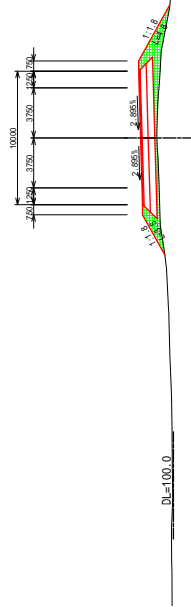
PK 207+450	
Excavation	0.0 m <sup>3</sup>
200% Sand Gravel	0.0 m <sup>3</sup>
Enbankment	0.0 m <sup>3</sup>
2.5% Gravel	0.0 m <sup>3</sup>
3.0% Gravel	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	4.0 m
Right Side	4.0 m

**PK207+450**  
 GH=101.43  
 PH=102.764



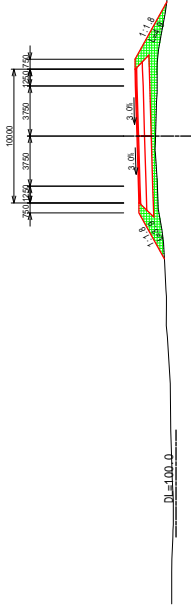
PK 207+550	
Excavation	0.0 m <sup>3</sup>
200% Sand Gravel	0.0 m <sup>3</sup>
Enbankment	0.0 m <sup>3</sup>
2.5% Gravel	0.0 m <sup>3</sup>
3.0% Gravel	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	3.5 m
Right Side	4.8 m

**PK207+550**  
 GH=101.24  
 PH=102.464



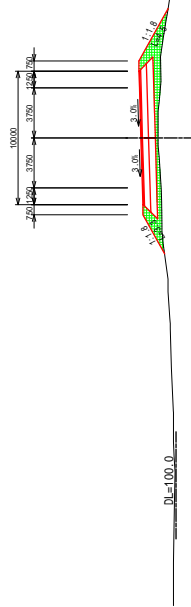
PK 207+400	
Excavation	0.0 m <sup>3</sup>
200% Sand Gravel	0.0 m <sup>3</sup>
Enbankment	0.0 m <sup>3</sup>
2.5% Gravel	0.0 m <sup>3</sup>
3.0% Gravel	1.1 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	3.9 m
Right Side	4.9 m

**PK207+400**  
 GH=101.52  
 PH=102.914



PK 207+500	
Excavation	0.0 m <sup>3</sup>
200% Sand Gravel	0.0 m <sup>3</sup>
Enbankment	0.0 m <sup>3</sup>
2.5% Gravel	0.0 m <sup>3</sup>
3.0% Gravel	2.4 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	3.3 m
Right Side	4.5 m

**PK207+500**  
 GH=101.33  
 PH=102.614



REPUBLIQUE DE DJIBOUTI  
 MINISTERE DE L'EQUIPEMENT ET DES TRANSPORTS  
 DIRECTION DE L'EQUIPEMENT



JAPAN INTERNATIONAL COOPERATION AGENCY  
 YACHIYO ENGINEERING CO., LTD.

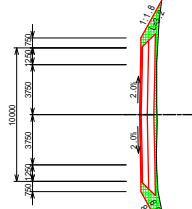
THE PREPARATORY SURVEY FOR  
 THE PROJECT FOR  
 UPGRADING OF NATIONAL ROAD ROUTE 1  
 IN THE REPUBLIC OF DJIBOUTI

SHEET CONTENTS  
 CROSS SECTION  
 PK207+400 ~ PK207+550

SCALE S=1:400  
 DATE NOV 2018  
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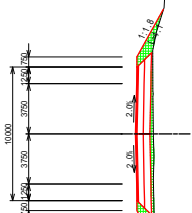
PK 207+750	
Excavation	0.0 m
200g Standard Soil	0.0 m
300g Soil	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	3.8 m
Right Side	3.2 m

PK207+750  
GH=100.56  
PH=101.864



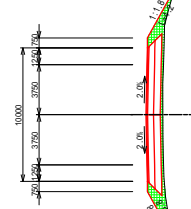
PK 207+650	
Excavation	0.0 m
200g Standard Soil	0.0 m
300g Soil	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	3.7 m
Right Side	4.1 m

PK207+650  
GH=100.83  
PH=102.164



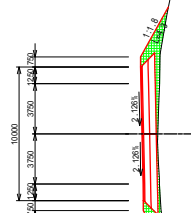
PK 207+700	
Excavation	0.0 m
200g Standard Soil	0.0 m
300g Soil	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	3.8 m
Right Side	4.2 m

PK207+700  
GH=100.74  
PH=102.014



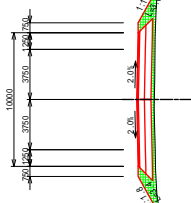
PK 207+600	
Excavation	0.0 m
200g Standard Soil	0.0 m
300g Soil	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	3.7 m
Right Side	4.3 m

PK207+600  
GH=101.13  
PH=102.314



PK 207+850	
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Enchantment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	3.4 m
Right Slope	3.0 m

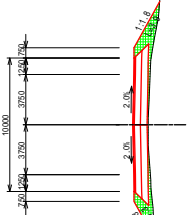
PK207+850  
GH=100.40  
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DL=95.0

PK 207+850	
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Enchantment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	3.3 m
Right Slope	3.0 m

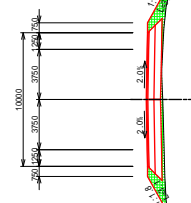
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DL=95.0

PK 207+900	
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Enchantment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	3.1 m
Right Slope	3.7 m

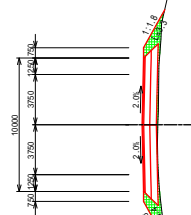
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DL=95.0

PK 207+800	
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Enchantment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enchantment Slope	3.4 m
Right Slope	3.3 m

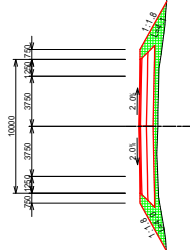
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PH=101.714



DL=95.0

PK	208+150
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	4.0 m
Right Side	4.1 m

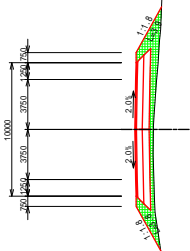
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DL=95.0

PK	208+50
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	3.8 m
Right Side	3.9 m

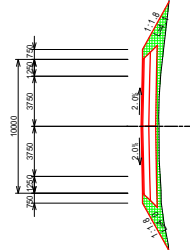
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DL=95.0

PK	208+100
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	4.0 m
Right Side	4.1 m

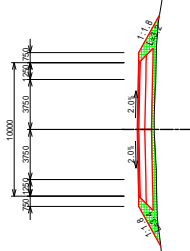
PK208+100  
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 PH=100.814



DL=95.0

PK	208+0
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	0.0 m
Left Side	3.4 m
Right Side	3.2 m

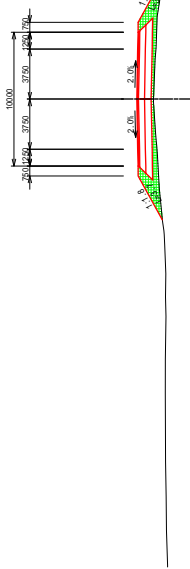
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DL=95.0

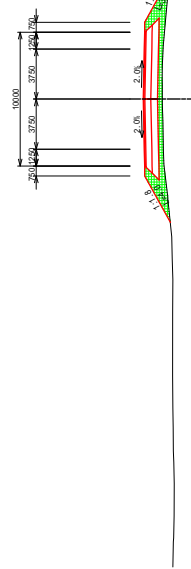
PK 208+350	
Excavation	0.0 m
Shoulder Cut	0.0 m
Embankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	3.7 m
Right Side	3.9 m

PK208+350  
 GH=98.81  
 PH=100.064



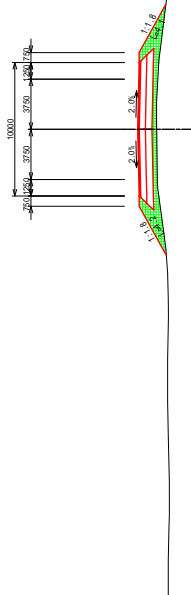
PK 208+300	
Excavation	0.0 m
Shoulder Cut	0.0 m
Embankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.0 m
Right Side	3.9 m

PK208+300  
 GH=98.79  
 PH=100.214



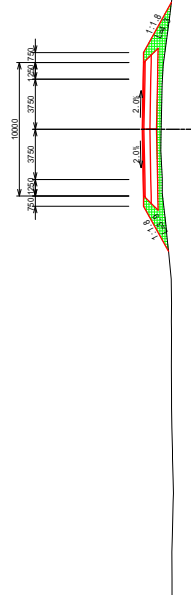
PK 208+250	
Excavation	0.0 m
Shoulder Cut	0.0 m
Embankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.2 m
Right Side	4.1 m

PK208+250  
 GH=98.95  
 PH=100.364



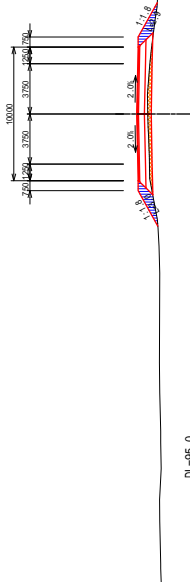
PK 208+200	
Excavation	0.0 m
Shoulder Cut	0.0 m
Embankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	3.9 m
Right Side	4.3 m

PK208+200  
 GH=99.09  
 PH=100.514



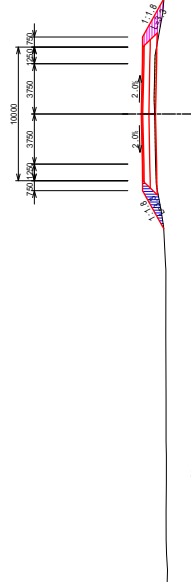
PK	208+550
Excavation	0.0 m
Shoulder Slope	2.3 m
Embankment	3.4 m
Shoulder Slope	2.3 m
Excavation	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	3.0 m
Right Slope	2.9 m

PK208+550  
GH=98.65  
PH=99.464



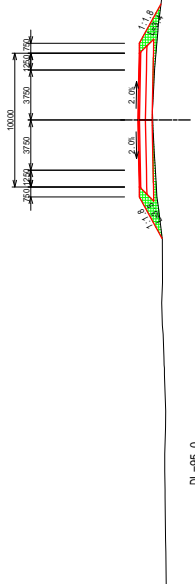
PK	208+500
Excavation	0.0 m
Shoulder Slope	1.0 m
Embankment	1.9 m
Shoulder Slope	2.1 m
Excavation	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	3.3 m
Right Slope	3.3 m

PK208+500  
GH=98.61  
PH=99.614



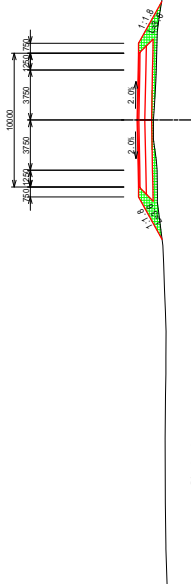
PK	208+450
Excavation	0.0 m
Shoulder Slope	0.0 m
Embankment	0.0 m
Shoulder Slope	0.0 m
Excavation	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	3.8 m
Right Slope	3.4 m

PK208+450  
GH=98.64  
PH=99.764



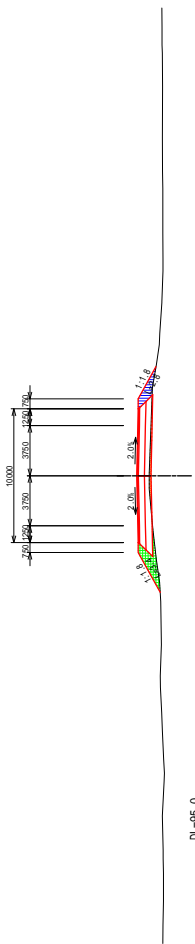
PK	208+400
Excavation	0.0 m
Shoulder Slope	0.0 m
Embankment	0.0 m
Shoulder Slope	0.0 m
Excavation	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	3.6 m
Right Slope	3.6 m

PK208+400  
GH=98.70  
PH=99.914



PK	208+750
Excavation	0.0 m
208+746.501	0.9 m
208+746.501	0.9 m
Enbankment	1.4 m
208+746.501	0.0 m
208+746.501	0.0 m
Length of Excavation Slope	2.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	3.8 m
Left Slope	2.8 m
Right Slope	2.8 m

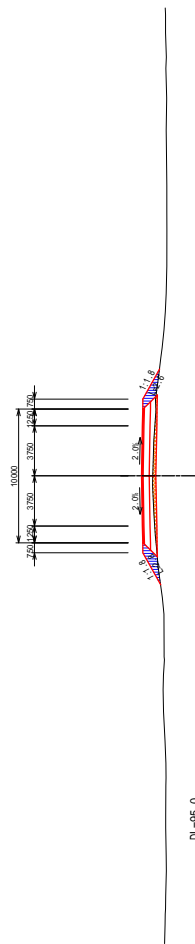
PK208+750  
GH=98.91  
PH=99.639



DL=95.0

PK	208+650
Excavation	0.0 m
208+646.501	2.0 m
208+646.501	2.0 m
Enbankment	2.9 m
208+646.501	0.0 m
208+646.501	0.0 m
Length of Excavation Slope	2.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	2.8 m
Left Slope	2.8 m
Right Slope	2.0 m

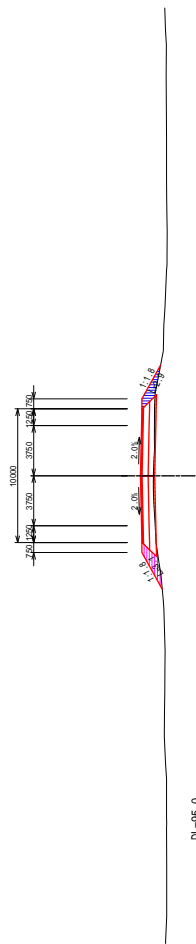
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GH=98.64  
PH=99.489



DL=95.0

PK	208+700
Excavation	0.0 m
208+696.501	1.0 m
208+696.501	1.5 m
Enbankment	1.9 m
208+696.501	0.0 m
208+696.501	0.0 m
Length of Excavation Slope	2.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	3.1 m
Left Slope	2.8 m
Right Slope	2.8 m

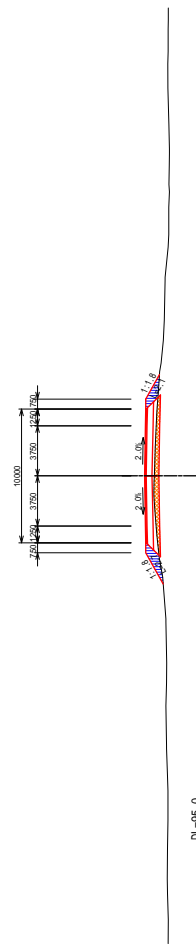
PK208+700  
GH=98.70  
PH=99.664



DL=95.0

PK	208+600
Excavation	0.0 m
208+596.501	3.4 m
208+596.501	2.5 m
Enbankment	2.5 m
208+596.501	0.0 m
208+596.501	0.0 m
Length of Excavation Slope	2.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	2.7 m
Left Slope	2.1 m
Right Slope	2.1 m

PK208+600  
GH=98.64  
PH=99.371

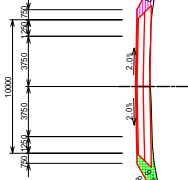


DL=95.0



PK	208+850
Excavation	0.0 m
Subgrade	0.0 m
Shoulder	0.1 m
Enbankment	0.0 m
Length of Excavation Slope	2.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	3.5 m
Left Slope	3.5 m
Right Slope	2.5 m

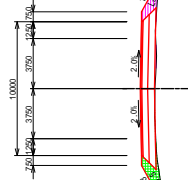
PK208+850  
G=99.08  
PH=100.189



DL=95.0

PK	208+950
Excavation	0.0 m
Subgrade	0.0 m
Shoulder	0.1 m
Enbankment	0.0 m
Length of Excavation Slope	2.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	3.8 m
Left Slope	3.8 m
Right Slope	2.2 m

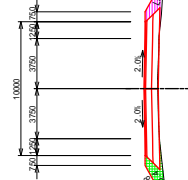
PK208+950  
G=99.41  
PH=100.539



DL=95.0

PK	208+800
Excavation	0.0 m
Subgrade	0.2 m
Shoulder	0.0 m
Enbankment	2.0 m
Length of Excavation Slope	2.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	3.4 m
Left Slope	3.4 m
Right Slope	3.1 m

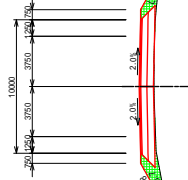
PK208+800  
G=96.97  
PH=100.014



DL=95.0

PK	208+900
Excavation	0.0 m
Subgrade	0.0 m
Shoulder	0.0 m
Enbankment	2.0 m
Length of Excavation Slope	2.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	3.7 m
Left Slope	3.7 m
Right Slope	3.0 m

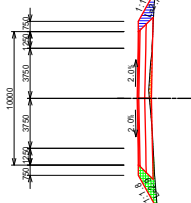
PK208+900  
G=99.25  
PH=100.364



DL=95.0

PK	209+150
Excavation Len	0.0 m
Open Cut	0.7 m
Enbankment	1.6 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	2.9 m
Left Side	2.9 m
Right Side	2.7 m

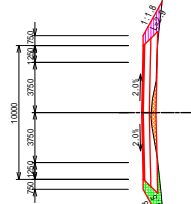
PK209+150  
GH=100.31  
PI=101.239



DL=95.0

PK	209+50
Excavation Len	0.0 m
Open Cut	1.4 m
Enbankment	0.0 m
Length of Excavation Slope	2.7 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.5 m
Left Side	3.5 m
Right Side	2.9 m

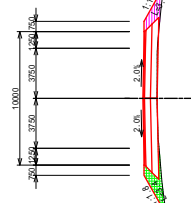
PK209+50  
GH=100.18  
PI=100.889



DL=95.0

PK	209+100
Excavation Len	0.0 m
Open Cut	0.2 m
Enbankment	0.0 m
Length of Excavation Slope	2.8 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.4 m
Left Side	3.4 m
Right Side	3.0 m

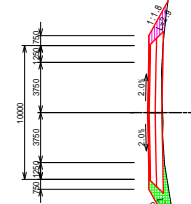
PK209+100  
GH=100.01  
PI=101.064



DL=95.0

PK	209+0
Excavation Len	0.0 m
Open Cut	0.2 m
Enbankment	0.0 m
Length of Excavation Slope	1.7 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.7 m
Left Side	3.7 m
Right Side	2.9 m

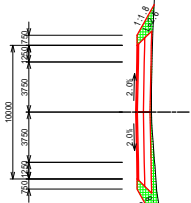
PK209  
GH=99.59  
PI=100.714



DL=95.0

PK	209+350
Excavation	0.0
Shoulder	0.0
Subgrade	0.0
Embankment	0.0
Length of Excavation Slope	0.0
Length of Embankment Slope	3.8
Left Side	2.8
Right Side	0.0

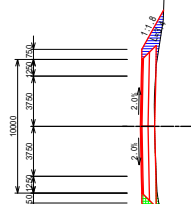
PK209+350  
GH=100.76  
PH=101.939



DL=95.0

PK	209+250
Excavation	0.0
Shoulder	0.2
Subgrade	2.3
Embankment	0.0
Length of Excavation Slope	0.0
Length of Embankment Slope	3.4
Left Side	3.4
Right Side	0.0

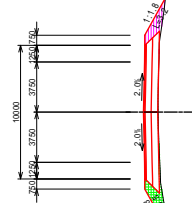
PK209+250  
GH=100.52  
PH=101.589



DL=95.0

PK	209+300
Excavation	0.0
Shoulder	0.0
Subgrade	0.0
Embankment	0.0
Length of Excavation Slope	1.9
Length of Embankment Slope	3.5
Left Side	3.5
Right Side	0.0

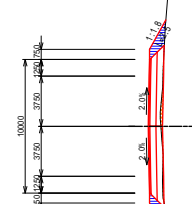
PK209+300  
GH=100.67  
PH=101.764



DL=95.0

PK	209+200
Excavation	0.0
Shoulder	0.3
Subgrade	3.6
Embankment	0.0
Length of Excavation Slope	0.0
Length of Embankment Slope	2.5
Left Side	2.5
Right Side	0.0

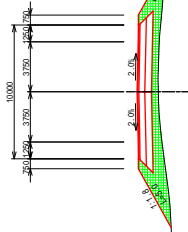
PK209+200  
GH=100.46  
PH=101.414



DL=95.0

PK	209+550
Excavation	0.0
Shoulder	0.0
Subgrade	0.0
Embankment	0.0
Length of Excavation Slope	0.0
Left Slope	0.0
Right Slope	4.2

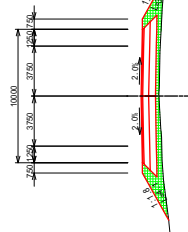
PK209+550  
GH=100.99  
PH=102.578



DL=95.0

PK	209+450
Excavation	0.0
Shoulder	0.0
Subgrade	0.0
Embankment	0.0
Length of Excavation Slope	0.0
Left Slope	0.0
Right Slope	3.4

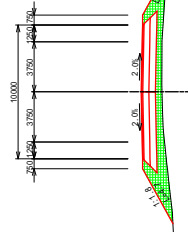
PK209+450  
GH=100.95  
PH=102.289



DL=95.0

PK	209+500
Excavation	0.0
Shoulder	0.0
Subgrade	0.0
Embankment	0.0
Length of Excavation Slope	0.0
Left Slope	0.0
Right Slope	3.9

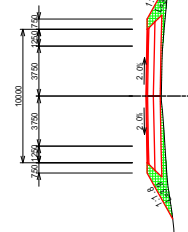
PK209+500  
GH=100.31  
PH=102.404



DL=95.0

PK	209+400
Excavation	0.0
Shoulder	0.0
Subgrade	0.0
Embankment	0.0
Length of Excavation Slope	0.0
Left Slope	3.9
Right Slope	3.2

PK209+400  
GH=100.96  
PH=102.114



DL=95.0



REPUBLIQUE DE DJIBOUTI  
MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS  
DIRECTION DE L'EQUIPEMENT

JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

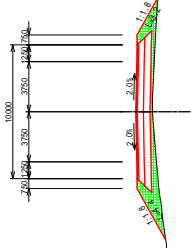
THE PREPARATORY SURVEY FOR  
THE PROJECT FOR  
UPGRADING OF NATIONAL ROAD ROUTE 1  
IN THE REPUBLIC OF DJIBOUTI

SHEET CONTENTS  
CROSS SECTION  
PK209+400 ~ PK209+550

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PK 209+750	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	4.4 m
Left Slope	3.2 m
Right Slope	3.2 m

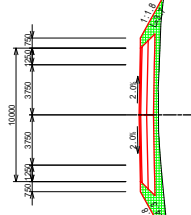
PK209+750  
GH=100.67  
PH=101.939



DL=95.0

PK 209+650	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	4.3 m
Left Slope	3.7 m
Right Slope	3.7 m

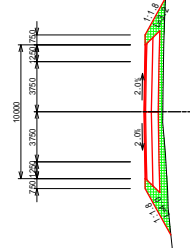
PK209+650  
GH=100.94  
PH=102.289



DL=95.0

PK 209+700	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	4.0 m
Left Slope	3.2 m
Right Slope	3.2 m

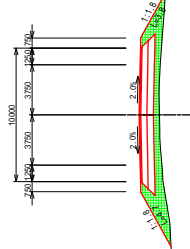
PK209+700  
GH=100.69  
PH=102.114



DL=95.0

PK 209+600	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	4.7 m
Left Slope	3.8 m
Right Slope	3.8 m

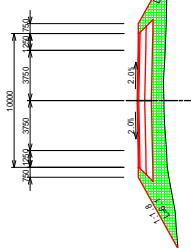
PK209+600  
GH=100.96  
PH=102.464



DL=95.0

PK	209+950
Excavation	0.0 m
20m <sup>3</sup> per 100m <sup>2</sup> Cost	0.0 m <sup>3</sup>
Shoulder Slope	0.0 m
Enchantment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	2.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	0.0 m
Left Slope	5.1 n
Right Slope	5.4 n

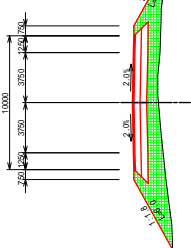
PK209+950  
GH=99.24  
PH=101.239



DL=95.0

PK	209+850
Excavation	0.0 m
20m <sup>3</sup> per 100m <sup>2</sup> Cost	0.0 m <sup>3</sup>
Shoulder Slope	0.0 m
Enchantment	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	2.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	0.0 m
Left Slope	5.0 n
Right Slope	5.1 n

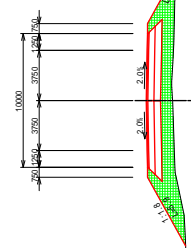
PK209+850  
GH=99.65  
PH=101.589



DL=95.0

PK	209+900
Excavation	0.0 m
20m <sup>3</sup> per 100m <sup>2</sup> Cost	0.0 m <sup>3</sup>
Shoulder Slope	0.0 m
Enchantment	0.0 m
Shoulder Slope	2.3 m
Shoulder Slope	2.3 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	0.0 m
Left Slope	5.9 n
Right Slope	5.4 n

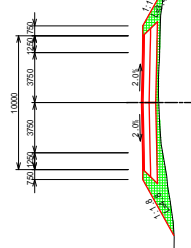
PK209+900  
GH=99.44  
PH=101.414



DL=95.0

PK	209+800
Excavation	0.0 m
20m <sup>3</sup> per 100m <sup>2</sup> Cost	0.0 m <sup>3</sup>
Shoulder Slope	0.0 m
Enchantment	0.0 m
Shoulder Slope	2.5 m
Shoulder Slope	2.5 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	0.0 m
Left Slope	4.8 n
Right Slope	3.4 n

PK209+800  
GH=100.48  
PH=101.764

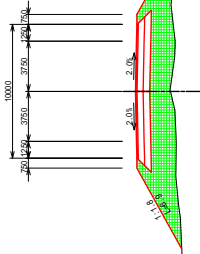


DL=95.0

	REPUBLIQUE DE DJIBOUTI MINISTERE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT	 JAPAN INTERNATIONAL COOPERATION AGENCY YACHIYO ENGINEERING CO., LTD.	THE PREPARATORY SURVEY FOR THE PROJECT FOR UPGRADING OF NATIONAL ROAD ROUTE 1 IN THE REPUBLIC OF DJIBOUTI		SHEET CONTENTS CROSS SECTION PK209+800 ~ PK209+950	SCALE S=1:400	DATE NOV 2018	PAGE NO. 82 / 131

PK 210+50	
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Shoulder	0.0 m
Excavation	0.0 m
Shoulder	0.0 m
Excavation	0.0 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

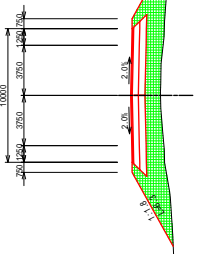
PK210+50  
GH=97.92  
PH=100.539



DL=95.0

PK 210+100	
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Shoulder	0.0 m
Excavation	0.0 m
Shoulder	0.0 m
Excavation	0.0 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

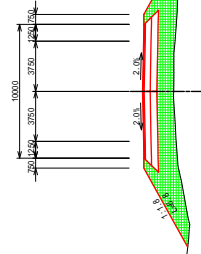
PK210+100  
GH=98.39  
PH=100.714



DL=95.0

PK 210+0	
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Shoulder	0.0 m
Excavation	0.0 m
Shoulder	0.0 m
Excavation	0.0 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

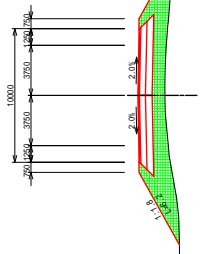
PK210+0  
GH=99.04  
PH=101.064



DL=95.0

PK 210+150	
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Shoulder	0.0 m
Excavation	0.0 m
Shoulder	0.0 m
Excavation	0.0 m
Shoulder	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

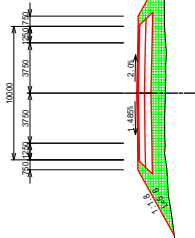
PK210+150  
GH=99.04  
PH=101.064



DL=95.0

PK	210+350
Excavation	0.0 m <sup>3</sup>
Spill 0.5%	0.0 m <sup>3</sup>
Enbankment	0.0 m <sup>3</sup>
Spill 2.5%	0.0 m <sup>3</sup>
Enbankment	20.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.8 m
Left Side	5.8 m
Right Side	4.8 m

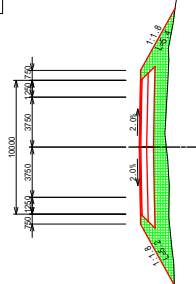
PK210+350  
GH=87.70  
PH=89.439



DL=95.0

PK	210+250
Excavation	0.0 m <sup>3</sup>
Spill 0.5%	0.0 m <sup>3</sup>
Enbankment	0.0 m <sup>3</sup>
Spill 2.5%	0.0 m <sup>3</sup>
Enbankment	20.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.2 m
Left Side	5.4 m
Right Side	5.4 m

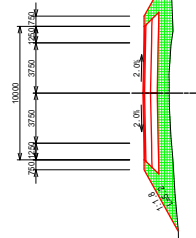
PK210+250  
GH=88.16  
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DL=95.0

PK	210+300
Excavation	0.0 m <sup>3</sup>
Spill 0.5%	0.0 m <sup>3</sup>
Enbankment	0.0 m <sup>3</sup>
Spill 2.5%	0.0 m <sup>3</sup>
Enbankment	20.7 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.2 m
Left Side	5.2 m
Right Side	5.0 m

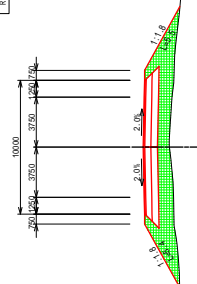
PK210+300  
GH=88.04  
PH=100.014



DL=95.0

PK	210+200
Excavation	0.0 m <sup>3</sup>
Spill 0.5%	0.0 m <sup>3</sup>
Enbankment	0.0 m <sup>3</sup>
Spill 2.5%	0.0 m <sup>3</sup>
Enbankment	22.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.4 m
Left Side	5.4 m
Right Side	5.3 m

PK210+200  
GH=88.40  
PH=100.364

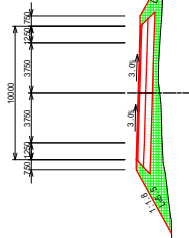


DL=95.0



PK 210+550	
Excavation	0.0 m <sup>3</sup>
200% Subgrade	0.0 m <sup>3</sup>
Subgrade	0.0 m <sup>3</sup>
Embankment	0.0 m <sup>3</sup>
2.5% Slope	0.0 m <sup>3</sup>
3% Slope	0.0 m <sup>3</sup>
4% Slope	0.0 m <sup>3</sup>
5% Slope	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	5.5 m
Right Side	4.0 m

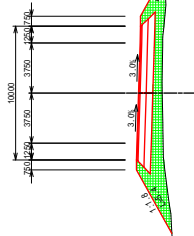
PK210+550  
GH=97.53  
PH=99.139



DL=95.0

PK 210+450	
Excavation	0.0 m <sup>3</sup>
200% Subgrade	0.0 m <sup>3</sup>
Subgrade	0.0 m <sup>3</sup>
Embankment	0.0 m <sup>3</sup>
2.5% Slope	0.0 m <sup>3</sup>
3% Slope	0.0 m <sup>3</sup>
4% Slope	0.0 m <sup>3</sup>
5% Slope	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	5.4 m
Right Side	4.0 m

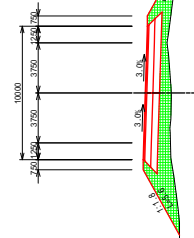
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GH=97.71  
PH=99.489



DL=95.0

PK 210+500	
Excavation	0.0 m <sup>3</sup>
200% Subgrade	0.0 m <sup>3</sup>
Subgrade	0.0 m <sup>3</sup>
Embankment	0.0 m <sup>3</sup>
2.5% Slope	0.0 m <sup>3</sup>
3% Slope	0.0 m <sup>3</sup>
4% Slope	0.0 m <sup>3</sup>
5% Slope	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	5.6 m
Right Side	4.4 m

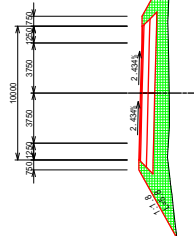
PK210+500  
GH=97.37  
PH=99.314



DL=95.0

PK 210+400	
Excavation	0.0 m <sup>3</sup>
200% Subgrade	0.0 m <sup>3</sup>
Subgrade	0.0 m <sup>3</sup>
Embankment	0.0 m <sup>3</sup>
2.5% Slope	0.0 m <sup>3</sup>
3% Slope	0.0 m <sup>3</sup>
4% Slope	0.0 m <sup>3</sup>
5% Slope	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	5.8 m
Right Side	4.8 m

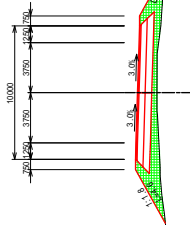
PK210+400  
GH=97.53  
PH=99.664



DL=95.0

PK 210+750	
Excavation	0.0 m
200g Standard Soil	0.0 m
300g Standard Soil	0.0 m
Enbankment	0.0 m
Length of Embankment Slope	12.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.8 m
Left Side	4.8 m
Right Side	4.0 m

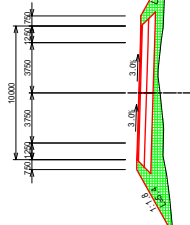
PK210+750  
GH=96.88  
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DL=95.0

PK 210+650	
Excavation	0.0 m
200g Standard Soil	0.0 m
300g Standard Soil	0.0 m
Enbankment	0.0 m
Length of Embankment Slope	10.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.4 m
Left Side	5.4 m
Right Side	3.9 m

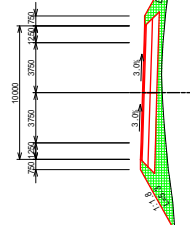
PK210+650  
GH=97.21  
PH=98.789



DL=95.0

PK 210+700	
Excavation	0.0 m
200g Standard Soil	0.0 m
300g Standard Soil	0.0 m
Enbankment	0.0 m
Length of Embankment Slope	11.3 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.3 m
Left Side	5.3 m
Right Side	4.1 m

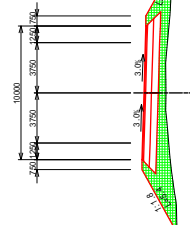
PK210+700  
GH=97.15  
PH=98.614



DL=95.0

PK 210+600	
Excavation	0.0 m
200g Standard Soil	0.0 m
300g Standard Soil	0.0 m
Enbankment	0.0 m
Length of Embankment Slope	7.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	5.4 m
Left Side	5.4 m
Right Side	3.7 m

PK210+600  
GH=97.31  
PH=98.964



DL=95.0



REPUBLIQUE DE DJIBOUTI  
MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS  
DIRECTION DE L'EQUIPEMENT



JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

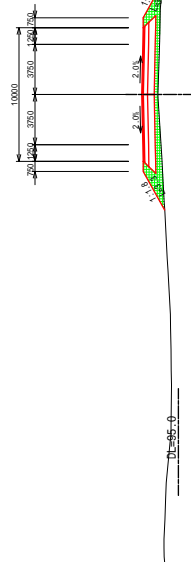
THE PREPARATORY SURVEY FOR  
THE PROJECT FOR  
UPGRADING OF NATIONAL ROAD ROUTE 1  
IN THE REPUBLIC OF DJIBOUTI

SHEET CONTENTS  
CROSS SECTION  
PK210+600 ~ PK210+750

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DATE NOV 2018  
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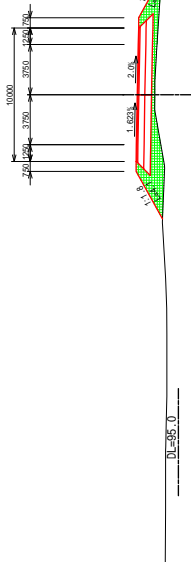
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Shoulder	0.0 m
Enlargement	0.0 m
Shoulder	0.0 m
Length of Enlargement Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enlargement Slope	0.0 m
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Right Slope	3.0 n

PK210+850  
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 PH=67.79



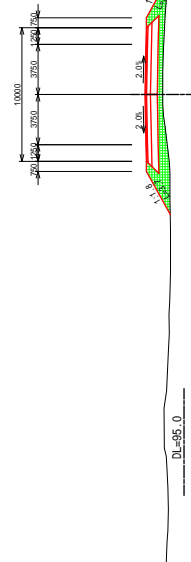
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Shoulder	0.0 m
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Shoulder	0.0 m
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Left Slope	0.0 n
Right Slope	0.0 n
Length of Enlargement Slope	0.0 m
Left Slope	4.1 n
Right Slope	3.8 n

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 PH=68.089



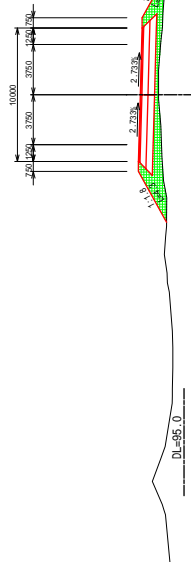
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Shoulder	0.0 m
Enlargement	0.0 m
Shoulder	0.0 m
Length of Enlargement Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enlargement Slope	0.0 m
Left Slope	3.7 n
Right Slope	3.4 n

PK210+900  
 CH=66.59  
 PH=67.914



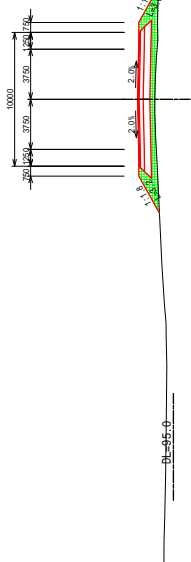
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Shoulder	0.0 m
Enlargement	0.0 m
Shoulder	0.0 m
Length of Enlargement Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enlargement Slope	0.0 m
Left Slope	4.3 n
Right Slope	3.7 n

PK210+800  
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 PH=68.264



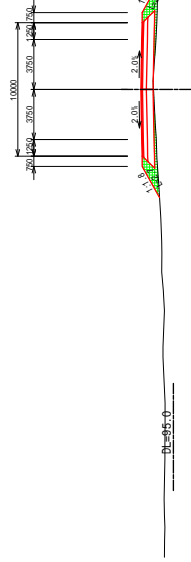
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Spot Elevation	0.0 m
Enbankment	0.0 m
Length of Enbankment	0.0 m
Length of Excavation	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.2 m
Left Side	2.7 m
Right Side	3.0 m

PK211+150  
G=98.38  
PI=97.689



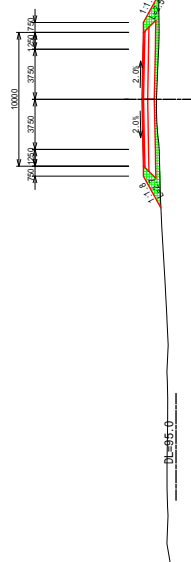
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Spot Elevation	0.0 m
Enbankment	0.0 m
Length of Enbankment	0.0 m
Length of Excavation	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	2.7 m
Left Side	2.7 m
Right Side	2.0 m

PK211+50  
G=96.49  
PI=97.446



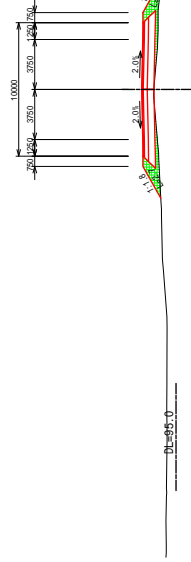
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Elevation	0.0 m
Spot Elevation	0.0 m
Enbankment	0.0 m
Length of Enbankment	0.0 m
Length of Excavation	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	2.7 m
Left Side	2.7 m
Right Side	2.5 m

PK211+100  
G=96.44  
PI=97.539



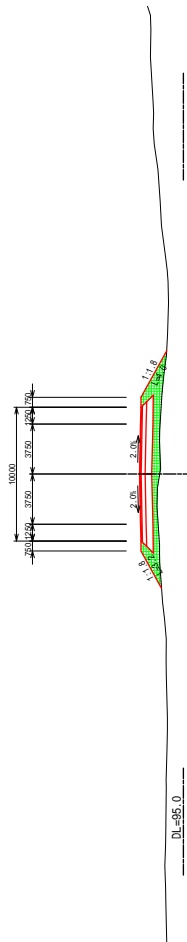
PK 211+0	
Elevation	0.0 m
Spot Elevation	0.0 m
Enbankment	0.0 m
Length of Enbankment	0.0 m
Length of Excavation	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	2.7 m
Left Side	2.7 m
Right Side	2.9 m

PK211  
G=96.65  
PI=97.564



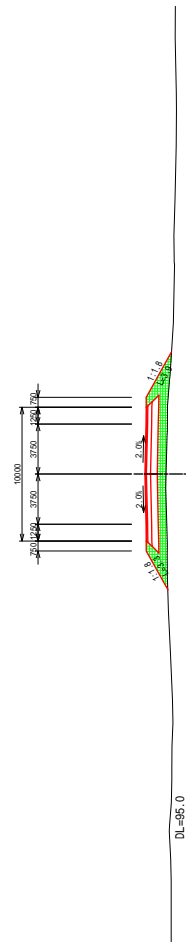
PK	211+350
Excavation	0.0 m
Spore Cut	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.2 m
Left Side	3.2 m
Right Side	4.0 m

PK211+350  
GH=96.77  
PH=98.289



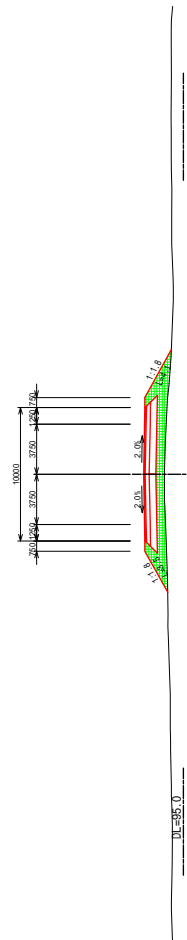
PK	211+300
Excavation	0.0 m
Spore Cut	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.3 m
Left Side	3.3 m
Right Side	3.9 m

PK211+300  
GH=96.56  
PH=98.139



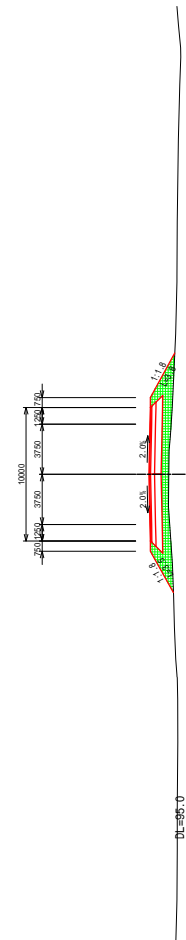
PK	211+250
Excavation	0.0 m
Spore Cut	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.5 m
Left Side	3.5 m
Right Side	4.1 m

PK211+250  
GH=96.43  
PH=97.989



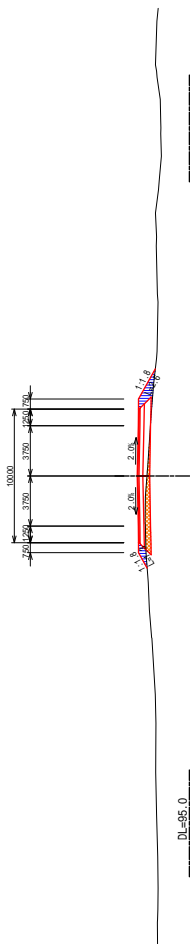
PK	211+200
Excavation	0.0 m
Spore Cut	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.5 m
Left Side	3.5 m
Right Side	3.8 m

PK211+200  
GH=96.36  
PH=97.839



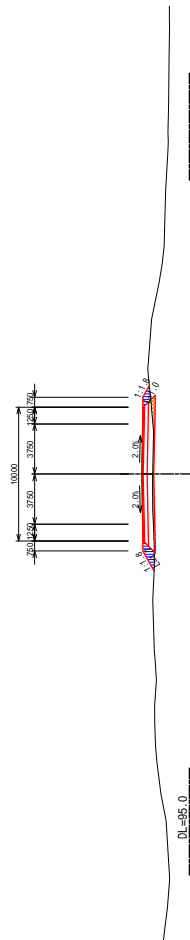
PK	211+550
Excavation	0.0 m
Shoulder	2.4 m
Embankment	2.1 m
Shoulder	0.0 m
Excavation	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	0.0 m
Left Slope	1.3 n
Right Slope	2.8 n

PK211+550  
G=98.18  
PH=98.905



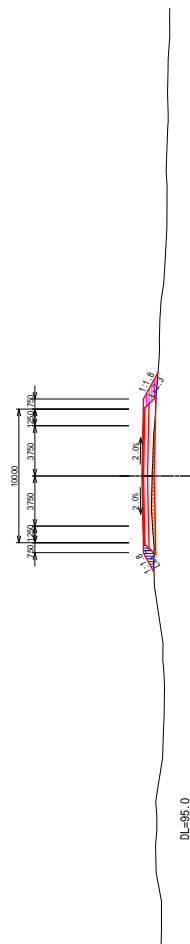
PK	211+450
Excavation	0.0 m
Shoulder	1.4 m
Embankment	1.5 m
Shoulder	0.0 m
Excavation	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	0.0 m
Left Slope	1.7 n
Right Slope	1.0 n

PK211+450  
G=97.75  
PH=98.589



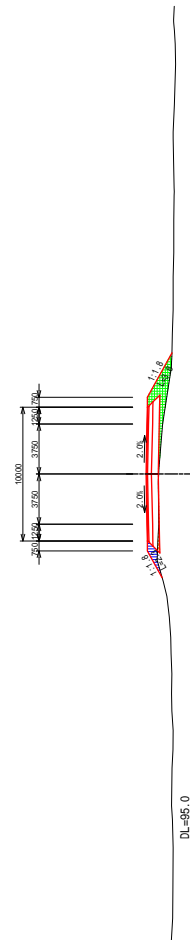
PK	211+500
Excavation	0.0 m
Shoulder	1.6 m
Embankment	0.9 m
Shoulder	1.3 m
Excavation	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	1.7 m
Left Slope	1.7 n
Right Slope	2.3 n

PK211+500  
G=97.98  
PH=98.739



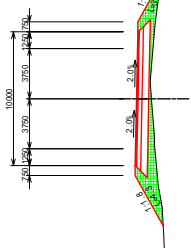
PK	211+400
Excavation	0.0 m
Shoulder	0.3 m
Embankment	0.9 m
Shoulder	0.0 m
Excavation	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	2.3 m
Left Slope	2.3 n
Right Slope	3.8 n

PK211+400  
G=97.49  
PH=98.439



PK	211+750
Excavation	0.0 m
2000/3000/5000	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	0.0 m
Left Slope	4.3 n
Right Slope	3.8 n

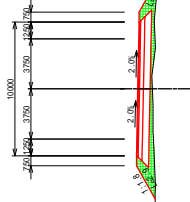
PK211+750  
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PH=101.289



DL=95.0

PK	211+650
Excavation	0.0 m
2000/3000/5000	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	0.0 m
Left Slope	2.9 n
Right Slope	2.9 n

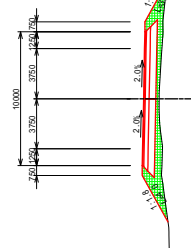
PK211+650  
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PH=99.989



DL=95.0

PK	211+700
Excavation	0.0 m
2000/3000/5000	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	0.0 m
Left Slope	4.0 n
Right Slope	3.6 n

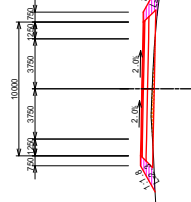
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DL=95.0

PK	211+600
Excavation	0.0 m
2000/3000/5000	0.9 m
Enbankment	0.0 m
Length of Excavation Slope	3.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	0.0 m
Left Slope	2.3 n
Right Slope	2.3 n

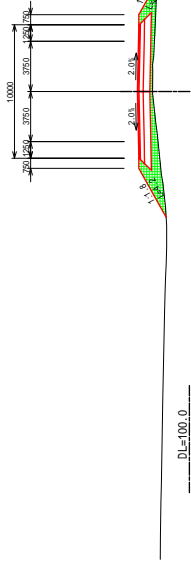
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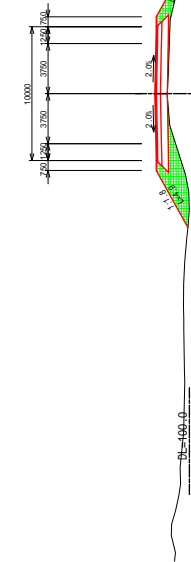
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Excavation	0.0 m
2000/3000/4000	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
2000/3000/4000	0.0 m
Length of Excavation Slope	0.2 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	4.3 m
Left Slope	4.3 n
Right Slope	4.4 n

PK211+850  
GH=102.65  
PH=102.589



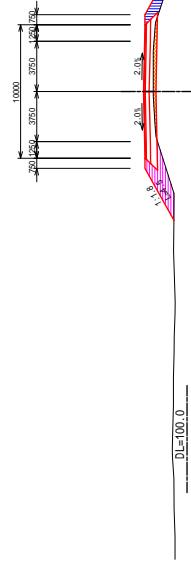
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2000/3000/4000	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
2000/3000/4000	0.0 m
Length of Excavation Slope	0.2 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	4.3 m
Left Slope	4.3 n
Right Slope	4.4 n

PK211+850  
GH=102.65  
PH=102.589



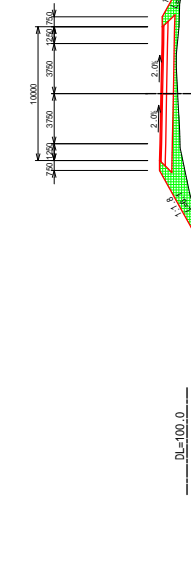
PK 211+900	
Excavation	0.0 m
2000/3000/4000	0.0 m
Shoulder	1.6 m
Enchantment	2.5 m
2000/3000/4000	4.7 m
Length of Excavation Slope	0.2 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	4.5 m
Left Slope	4.5 n
Right Slope	4.8 n

PK211+900  
GH=102.52  
PH=103.239



PK 211+800	
Excavation	0.0 m
2000/3000/4000	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
2000/3000/4000	0.0 m
Length of Excavation Slope	0.2 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	6.1 m
Left Slope	6.1 n
Right Slope	3.4 n

PK211+800  
GH=100.69  
PH=101.939



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DIRECTION DE L'EQUIPEMENT



JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

THE PREPARATORY SURVEY FOR  
THE PROJECT FOR  
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IN THE REPUBLIC OF DJIBOUTI

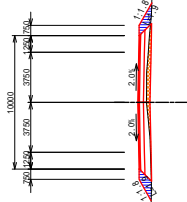
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PK211+800 ~ PK211+950

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PK 212+150	
Excavation	0.0 m
Open Cut	1.9 m
Enbankment	2.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	1.9 m
Left Side	1.9 m
Right Side	0.0 m

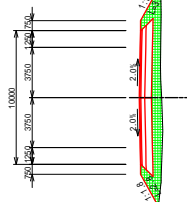
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DL=100.0

PK 212+50	
Excavation	0.0 m
Open Cut	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	2.8 m
Left Side	2.8 m
Right Side	0.0 m

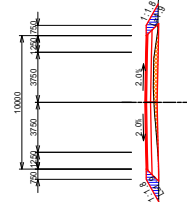
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DL=100.0

PK 212+100	
Excavation	0.0 m
Open Cut	2.0 m
Enbankment	2.1 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	1.9 m
Left Side	1.9 m
Right Side	0.0 m

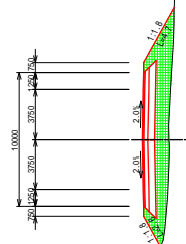
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DL=100.0

PK 212+0	
Excavation	0.0 m
Open Cut	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	2.6 m
Left Side	2.6 m
Right Side	4.7 m

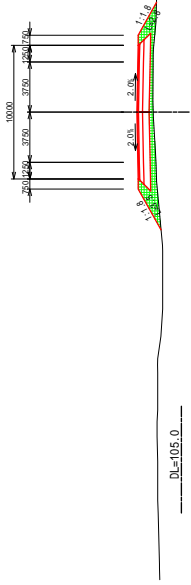
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DL=100.0

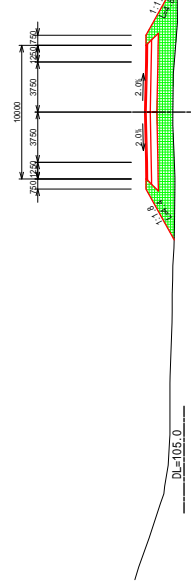
PK 212+250	
Excavation	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Embankment Slope	0.0 m
Length of Embankment Slope	0.0 m
Length of Embankment Slope	3.3 m
Length of Embankment Slope	2.7 m
Length of Embankment Slope	3.3 m

PK212+250  
GH=105.81  
PH=107.539



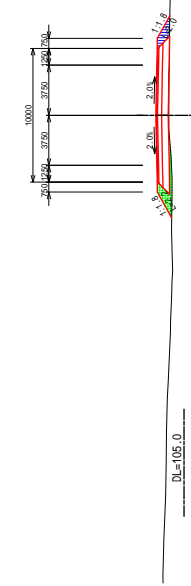
PK 212+300	
Excavation	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Embankment Slope	0.0 m
Length of Embankment Slope	0.0 m
Length of Embankment Slope	4.4 m
Length of Embankment Slope	4.4 m
Length of Embankment Slope	4.8 m

PK212+300  
GH=105.82  
PH=107.839



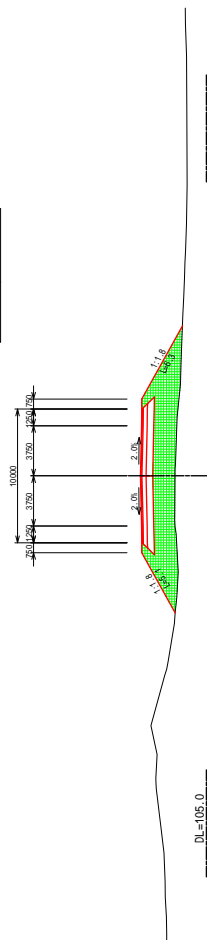
PK 212+250	
Excavation	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	1.1 m
Shoulder Slope	2.0 m
Shoulder Slope	2.0 m
Shoulder Slope	2.0 m
Shoulder Slope	2.0 m
Shoulder Slope	2.0 m
Length of Embankment Slope	0.0 m
Length of Embankment Slope	0.0 m
Length of Embankment Slope	2.2 m
Length of Embankment Slope	2.2 m
Length of Embankment Slope	2.0 m

PK212+200  
GH=106.13  
PH=107.085



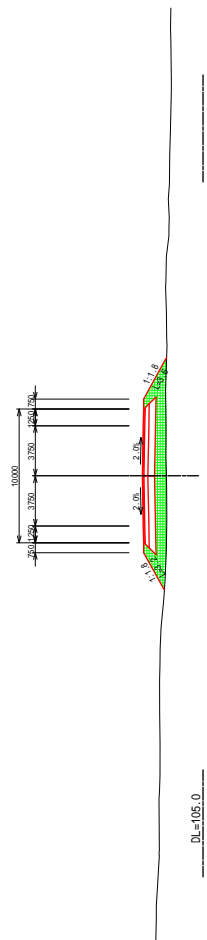
PK 212+550	
Excavation	0.0 m
Spaced Soil	0.0 m
Embankment	0.0 m
Spaced Soil	0.0 m
Embankment	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 n
Right Side	0.0 n
Length of Embankment Slope	0.0 m
Left Side	5.1 m
Right Side	6.3 m

PK212+550  
GH=107.85  
PH=109.839



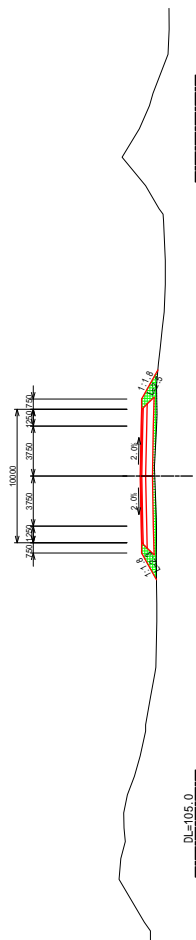
PK 212+500	
Excavation	0.0 m
Spaced Soil	0.0 m
Embankment	0.0 m
Spaced Soil	0.0 m
Embankment	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 n
Right Side	0.0 n
Length of Embankment Slope	0.0 m
Left Side	3.2 m
Right Side	3.6 m

PK212+500  
GH=107.73  
PH=109.539



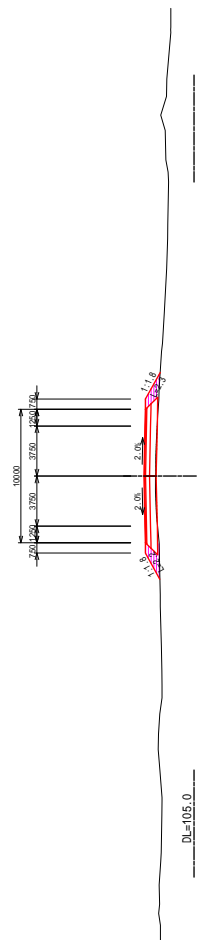
PK 212+450	
Excavation	0.0 m
Spaced Soil	0.0 m
Embankment	0.0 m
Spaced Soil	0.0 m
Embankment	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 n
Right Side	0.0 n
Length of Embankment Slope	0.0 m
Left Side	2.3 m
Right Side	2.8 m

PK212+450  
GH=108.04  
PH=109.139



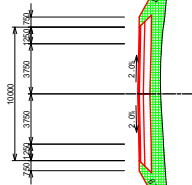
PK 212+400	
Excavation	0.0 m
Spaced Soil	0.4 m
Embankment	0.0 m
Spaced Soil	2.9 m
Embankment	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 n
Right Side	0.0 n
Length of Embankment Slope	0.0 m
Left Side	2.2 m
Right Side	2.3 m

PK212+400  
GH=107.87  
PH=108.739



PK 212+650	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	16.1 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	3.9 m
Left Slope	4.4 n
Right Slope	4.4 n

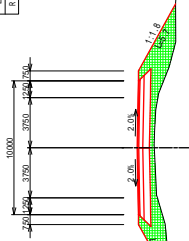
PK212+650  
 GH=109.03  
 PH=110.739



DL=105.0

PK 212+750	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	17.2 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	4.7 m
Left Slope	6.7 n
Right Slope	6.7 n

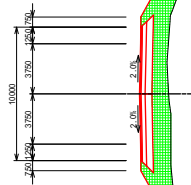
PK212+750  
 GH=110.28  
 PH=111.539



DL=105.0

PK 212+600	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	28.8 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	5.4 m
Left Slope	7.1 n
Right Slope	7.1 n

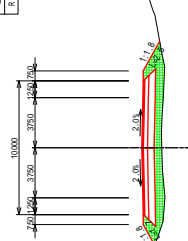
PK212+600  
 GH=108.16  
 PH=110.339



DL=105.0

PK 212+700	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	17.8 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	1.7 m
Left Slope	1.7 n
Right Slope	2.5 n

PK212+700  
 GH=109.64  
 PH=111.139



DL=105.0



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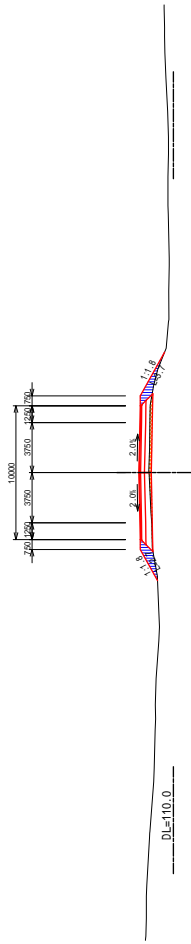
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 PK212+600 ~ PK212+750

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PK 212+850	
Excavation	0.0 m
Spac. Slope	1.5 m
Enchantment	2.9 m
Spac. Slope	0.0 m
Spac. Slope	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	2.7 m
Left Side	3.7 m

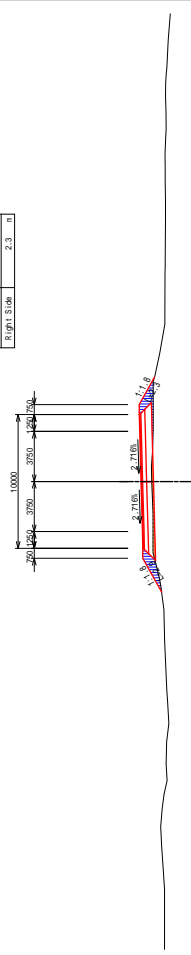
PK212+850  
Gh=111.84  
Ph=112.584



DL=110.0

PK 212+950	
Excavation	0.0 m
Spac. Slope	0.9 m
Enchantment	3.1 m
Spac. Slope	0.0 m
Spac. Slope	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	2.9 m
Left Side	2.9 m

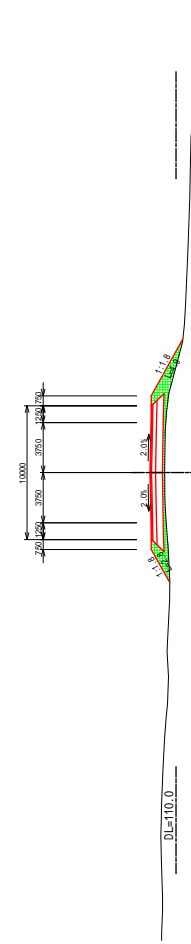
PK212+950  
Gh=115.14  
Ph=115.939



DL=110.0

PK 212+800	
Excavation	0.0 m
Spac. Slope	0.0 m
Enchantment	0.0 m
Spac. Slope	2.5 m
Spac. Slope	4.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	2.8 m
Left Side	4.9 m

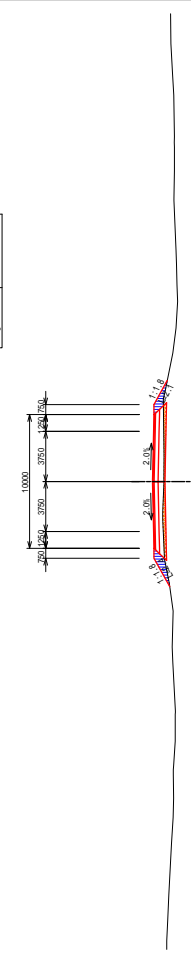
PK212+800  
Gh=110.83  
Ph=111.938



DL=110.0

PK 212+900	
Excavation	0.0 m
Spac. Slope	1.8 m
Enchantment	2.0 m
Spac. Slope	2.5 m
Spac. Slope	4.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	2.4 m
Left Side	2.1 m

PK212+900  
Gh=113.30  
Ph=114.139



DL=110.0



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JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

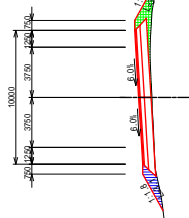
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PK	213+150
Excavation	0.0 m
Spore Size	0.0 m
Enbankment	1.8 m
Length of Enbankment Slope	3.1 m
Left Side	0.0 m
Right Side	3.4 m
Length of Enbankment Slope	3.1 m
Left Side	3.1 m
Right Side	3.4 m

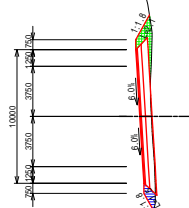
PK213+150  
GH=122.15  
PH=123.139



DL=115.0

PK	213+50
Excavation	0.0 m
Spore Size	0.5 m
Enbankment	0.9 m
Length of Enbankment Slope	2.0 m
Left Side	0.0 m
Right Side	1.5 m
Length of Enbankment Slope	2.1 m
Left Side	2.1 m
Right Side	4.3 m

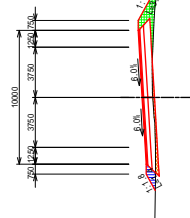
PK213+50  
GH=118.68  
PH=119.539



DL=115.0

PK	213+100
Excavation	0.0 m
Spore Size	1.1 m
Enbankment	0.7 m
Length of Enbankment Slope	2.3 m
Left Side	0.0 m
Right Side	1.4 m
Length of Enbankment Slope	1.4 m
Left Side	1.4 m
Right Side	3.1 m

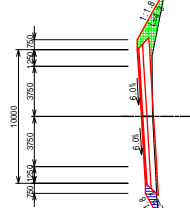
PK213+100  
GH=120.65  
PH=121.339



DL=115.0

PK	213+0
Excavation	0.0 m
Spore Size	0.8 m
Enbankment	1.1 m
Length of Enbankment Slope	3.0 m
Left Side	0.0 m
Right Side	2.1 m
Length of Enbankment Slope	2.1 m
Left Side	2.1 m
Right Side	4.3 m

PK213  
GH=118.89  
PH=117.739



DL=115.0



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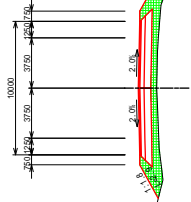
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PK	213+350
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	2.8 m
Left Side	2.8 m
Right Side	0.8 m

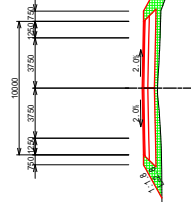
PK213+350  
 GH=126.57  
 PH=127.939



DL=120.0

PK	213+300
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	2.8 m
Left Side	2.8 m
Right Side	5.7 m

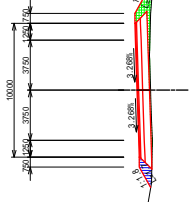
PK213+300  
 GH=125.79  
 PH=126.939



DL=120.0

PK	213+250
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	1.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	1.7 m
Left Side	1.7 m
Right Side	2.8 m

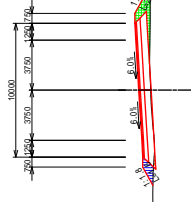
PK213+250  
 GH=124.93  
 PH=125.939



DL=120.0

PK	213+200
Excavation	0.0 m
Shoulder	0.2 m
Enchantment	0.9 m
Shoulder	2.0 m
Enchantment	2.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	1.6 m
Length of Embankment Slope	2.8 m
Left Side	2.8 m
Right Side	2.8 m

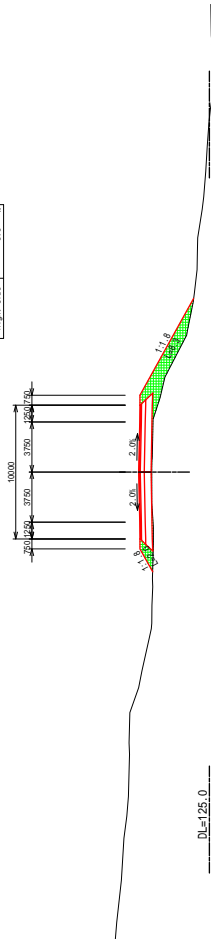
PK213+200  
 GH=123.91  
 PH=124.799



DL=120.0

PK 213+450	
Excavation	0.0 m <sup>3</sup>
200% Sand Fill	0.0 m <sup>3</sup>
Shoulder	0.6 m <sup>3</sup>
Embankment	0.0 m <sup>3</sup>
Subgrade	5.1 m <sup>3</sup>
Subbase	0.0 m <sup>3</sup>
Base	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	2.0 m
Right Side	6.3 m

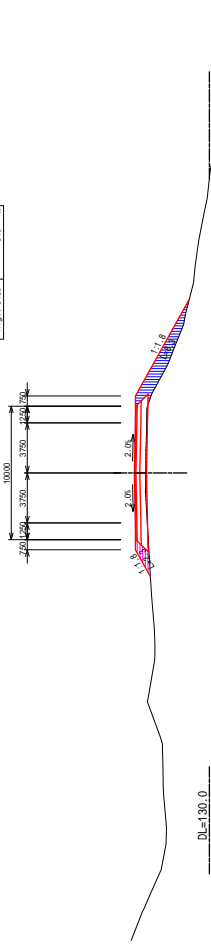
PK213+450  
GH=129.32  
PH=130.297



DL=125.0

PK 213+550	
Excavation	0.0 m <sup>3</sup>
200% Sand Fill	0.0 m <sup>3</sup>
Shoulder	0.6 m <sup>3</sup>
Embankment	0.0 m <sup>3</sup>
Subgrade	5.1 m <sup>3</sup>
Subbase	0.0 m <sup>3</sup>
Base	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	2.3 m
Right Side	5.3 m

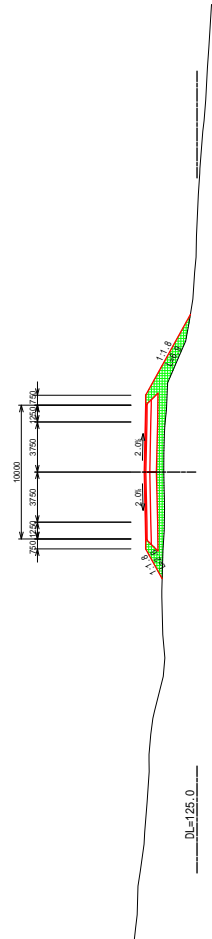
PK213+550  
GH=134.77  
PH=135.630



DL=130.0

PK 213+400	
Excavation	0.0 m <sup>3</sup>
200% Sand Fill	0.0 m <sup>3</sup>
Shoulder	0.0 m <sup>3</sup>
Embankment	0.0 m <sup>3</sup>
Subgrade	13.7 m <sup>3</sup>
Subbase	0.0 m <sup>3</sup>
Base	0.0 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	2.6 m
Right Side	6.9 m

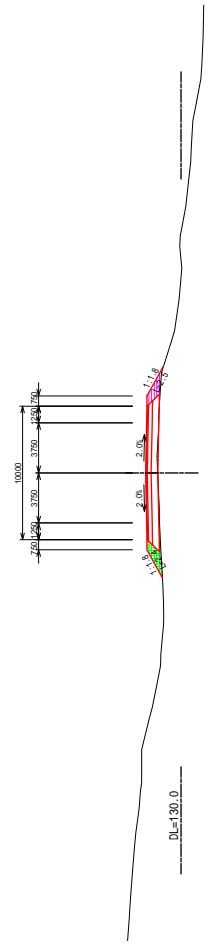
PK213+400  
GH=127.48  
PH=128.589



DL=125.0

PK 213+500	
Excavation	0.0 m <sup>3</sup>
200% Sand Fill	0.2 m <sup>3</sup>
Shoulder	0.2 m <sup>3</sup>
Embankment	0.0 m <sup>3</sup>
Subgrade	1.3 m <sup>3</sup>
Subbase	0.0 m <sup>3</sup>
Base	1.6 m <sup>3</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	2.4 m
Right Side	2.5 m

PK213+500  
GH=131.74  
PH=132.642



DL=130.0



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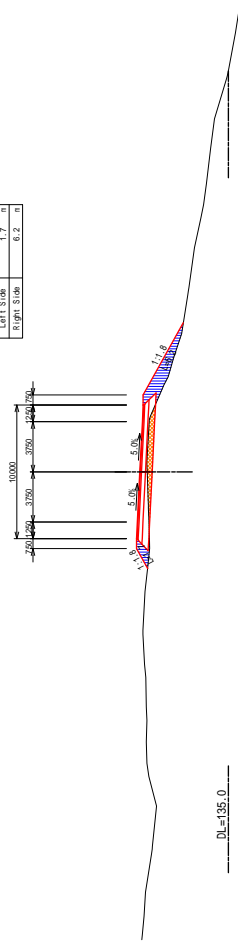
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<b>PK 213+650</b>	
Excavation	0.0 m
200g/300k Soil	2.7 m
300g/50k Soil	5.8 m
Enbankment	0.0 m
2.5% to 4.0%	0.0 m
4.0% to 5.0%	0.0 m
5.0% to 7.0%	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Embankment Slope	1.7 m
Left Slope	1.7 m
Right Slope	0.2 m

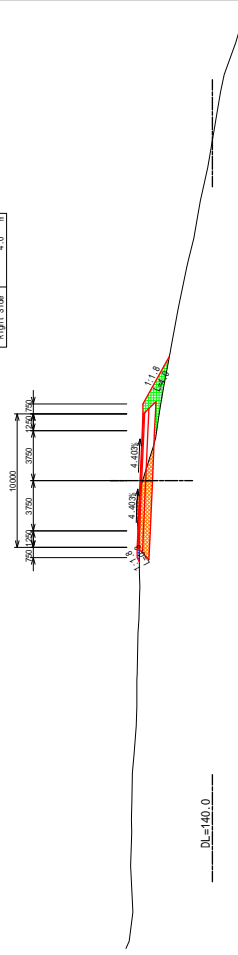
**PK213+650**  
GH=141.09  
PH=141.630



DL=135.0

<b>PK 213+750</b>	
Excavation	0.0 m
200g/300k Soil	6.1 m
300g/50k Soil	0.1 m
Enbankment	0.0 m
2.5% to 4.0%	0.0 m
4.0% to 5.0%	0.0 m
5.0% to 7.0%	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Embankment Slope	0.3 m
Left Slope	0.3 m
Right Slope	4.0 m

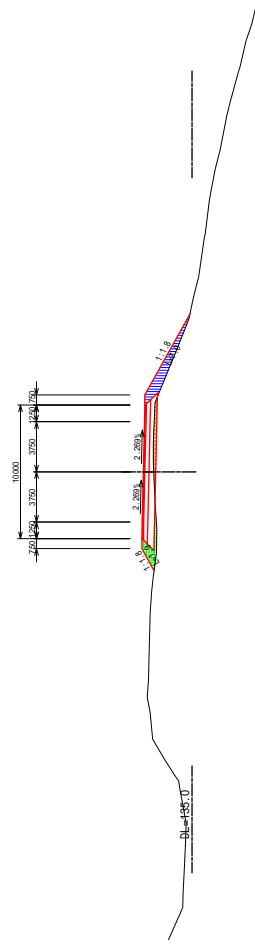
**PK213+750**  
GH=145.23  
PH=145.415



DL=140.0

<b>PK 213+600</b>	
Excavation	0.0 m
200g/300k Soil	1.2 m
300g/50k Soil	3.6 m
Enbankment	0.0 m
2.5% to 4.0%	0.0 m
4.0% to 5.0%	0.0 m
5.0% to 7.0%	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Embankment Slope	1.9 m
Left Slope	1.9 m
Right Slope	7.0 m

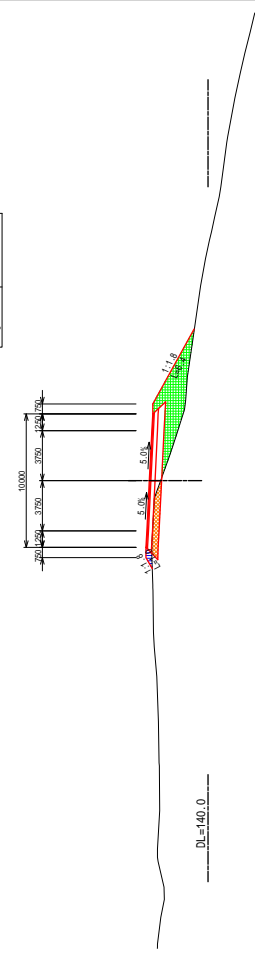
**PK213+600**  
GH=137.86  
PH=138.630



DL=135.0

<b>213+700</b>	
Excavation	0.0 m
200g/300k Soil	2.5 m
300g/50k Soil	0.4 m
Enbankment	0.0 m
2.5% to 4.0%	0.0 m
4.0% to 5.0%	1.3 m
5.0% to 7.0%	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Embankment Slope	1.0 m
Left Slope	1.0 m
Right Slope	6.4 m

**PK213+700**  
GH=143.54  
PH=144.384



DL=140.0



REPUBLIQUE DE DJIBOUTI  
MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS  
DIRECTION DE L'EQUIPEMENT



JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

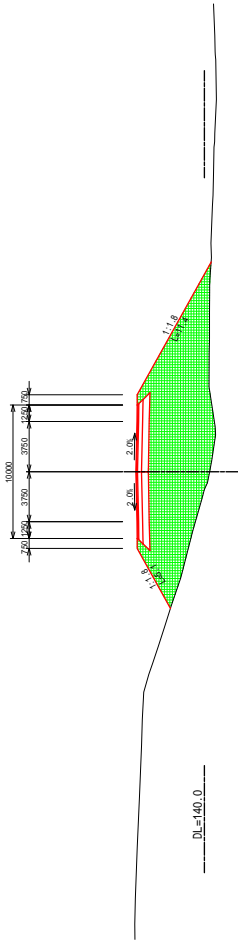
THE PREPARATORY SURVEY FOR  
THE PROJECT FOR  
UPGRADING OF NATIONAL ROAD ROUTE 1  
IN THE REPUBLIC OF DJIBOUTI

SHEET CONTENTS  
CROSS SECTION  
PK213+600 ~ PK213+750

SCALE S=1:400  
DATE NOV 2018  
PAGE NO. 101 / 131

PK	213+850
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Separation Slope	8.0 m
Left Slope	0.0 n
Right Slope	5.1 n
Right Slope	11.4 n

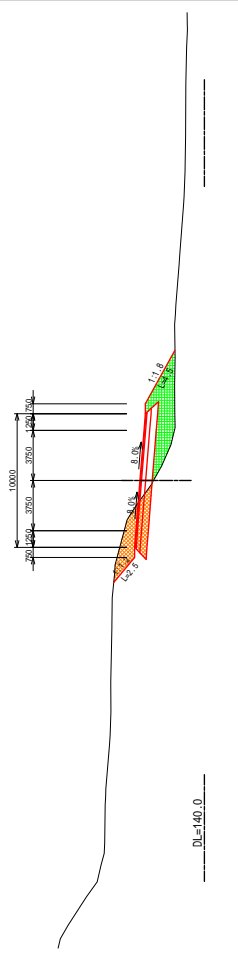
PK213+850  
 GH=139.62  
 PH=145.125



DL=140.0

PK	213+950
Excavation	0.0 m
Shoulder	8.7 m
Enchantment	0.0 m
Length of Separation Slope	10.5 m
Left Slope	2.5 n
Right Slope	0.0 n
Right Slope	4.5 n

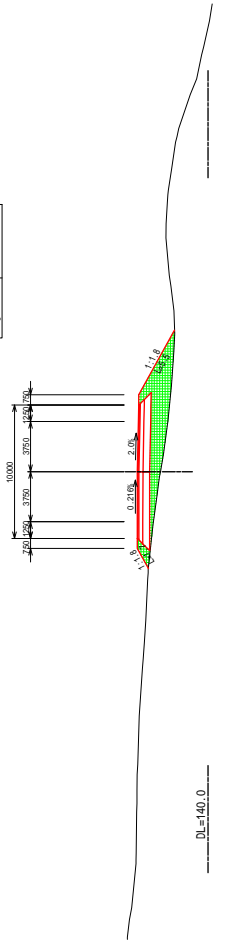
PK213+950  
 GH=143.81  
 PH=144.625



DL=140.0

PK	213+800
Excavation	0.0 m
Shoulder	0.0 m
Enchantment	0.0 m
Length of Separation Slope	16.0 m
Left Slope	0.0 n
Right Slope	1.7 n
Right Slope	5.5 n

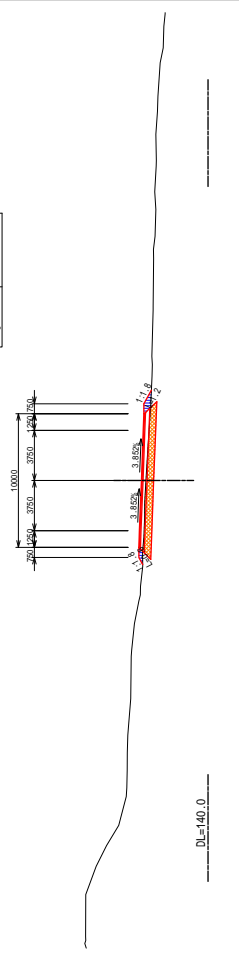
PK213+800  
 GH=143.56  
 PH=145.275



DL=140.0

PK	213+900
Excavation	0.0 m
Shoulder	6.2 m
Enchantment	0.8 m
Length of Separation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.6 n
Right Slope	1.2 n

PK213+900  
 GH=144.63  
 PH=144.975



DL=140.0



REPUBLIQUE DE DJIBOUTI  
 MINISTERE DE L'EQUIPEMENT ET DES TRANSPORTS  
 DIRECTION DE L'EQUIPEMENT

JAPAN INTERNATIONAL COOPERATION AGENCY  
 YACHIYO ENGINEERING CO., LTD.

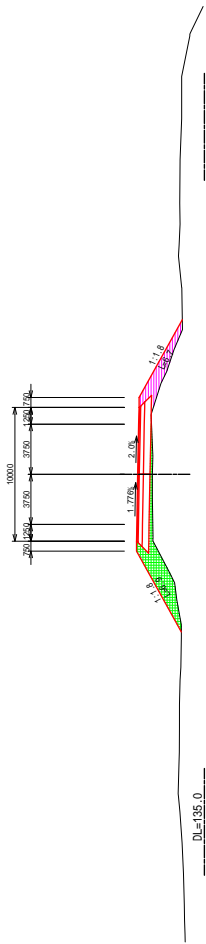
THE PREPARATORY SURVEY FOR  
 THE PROJECT FOR  
 UPGRADING OF NATIONAL ROAD ROUTE 1  
 IN THE REPUBLIC OF DJIBOUTI

SHEET CONTENTS  
 CROSS SECTION  
 PK213+800 ~ PK213+950

SCALE S=1:400  
 DATE NOV 2018  
 PAGE NO. 102 / 131

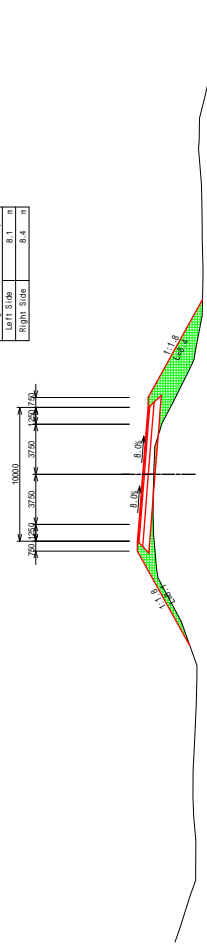
PK 214+150	
Excavation	0.0 m
Spill Out	0.0 m
Enlargement	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enlargement Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

PK214+150  
GH=138.90  
PH=139.985



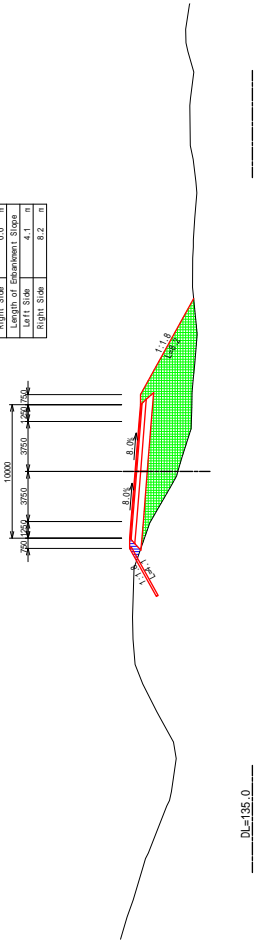
PK 214+100	
Excavation	0.0 m
Spill Out	0.4 m
Enlargement	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enlargement Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m

PK214+100  
GH=141.06  
PH=141.895



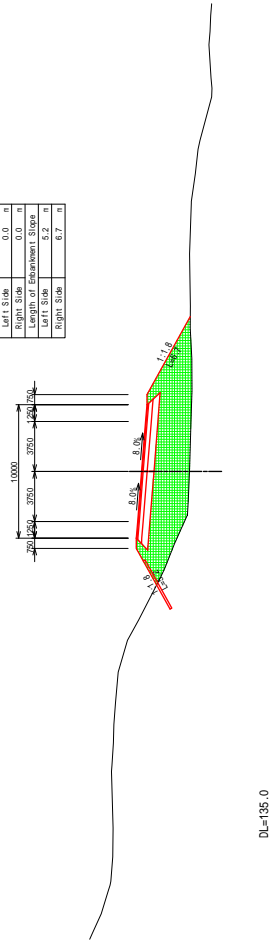
PK 214+50	
Excavation	0.0 m
Spill Out	0.0 m
Enlargement	0.7 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enlargement Slope	4.1 m
Left Side	4.1 m
Right Side	6.2 m



PK214+50  
GH=140.58  
PH=143.789



PK 214+0	
Excavation	0.0 m
Spill Out	0.0 m
Enlargement	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enlargement Slope	5.2 m
Left Side	5.2 m
Right Side	6.7 m

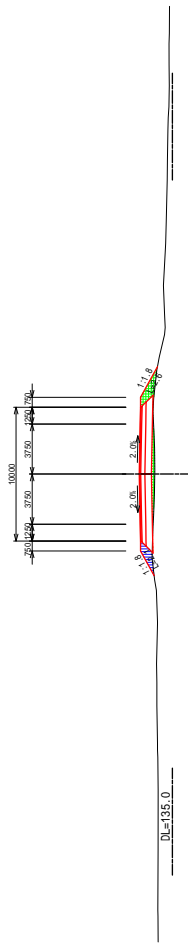
PK214  
GH=141.08  
PH=144.675



 REPUBLIQUE DE DJIBOUTI MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT	 JAPAN INTERNATIONAL COOPERATION AGENCY YACHIYO ENGINEERING CO., LTD.	SHEET CONTENTS CROSS SECTION PK214+000 ~ PK214+150		SCALE S=1:400
		THE PREPARATORY SURVEY FOR THE PROJECT FOR UPGRADING OF NATIONAL ROAD ROUTE 1 IN THE REPUBLIC OF DJIBOUTI		DATE NOV 2018

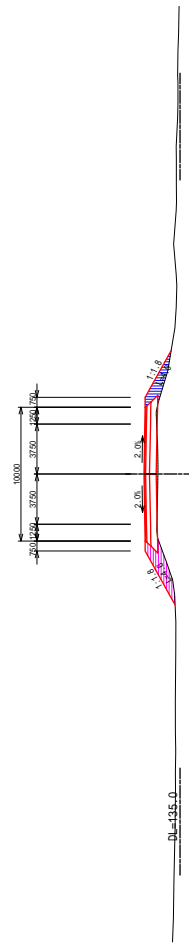
PK 214+350	
Excavation	0.0 m
Spore Side Cut	0.0 m
Embankment	1.1 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	2.1 m
Left Side	2.1 m
Right Side	2.8 m

PK214+350  
 GH=136.34  
 PH=137.495



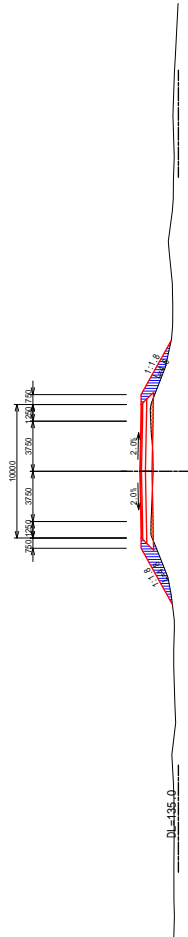
PK 214+300	
Excavation	0.0 m
Spore Side Cut	0.1 m
Embankment	2.4 m
Length of Excavation Slope	0.5 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.6 m
Left Side	4.6 m
Right Side	4.0 m

PK214+300  
 GH=136.66  
 PH=137.695



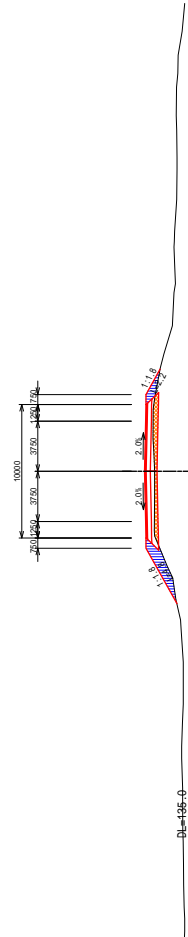
PK 214+250	
Excavation	0.0 m
Spore Side Cut	0.9 m
Embankment	6.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.8 m
Left Side	4.8 m
Right Side	4.0 m

PK214+250  
 GH=136.90  
 PH=137.895



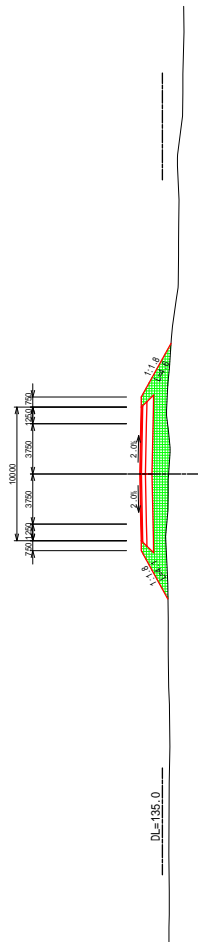
PK 214+200	
Excavation	0.0 m
Spore Side Cut	3.0 m
Embankment	4.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.8 m
Left Side	4.8 m
Right Side	2.2 m

PK214+200  
 GH=137.58  
 PH=138.308



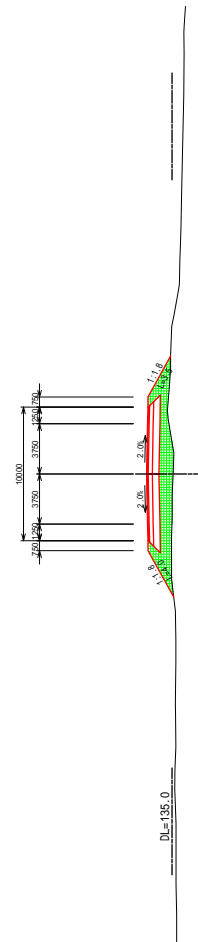
PK	214+550
Excavation	0.0 m
Shoulder	0.0 m
Embankment	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	2.0
Right Slope	2.0
Length of Embankment Slope	0.0 m
Left Slope	4.3
Right Slope	4.8

PK214+550  
Gh=134.55  
Ph=136.695



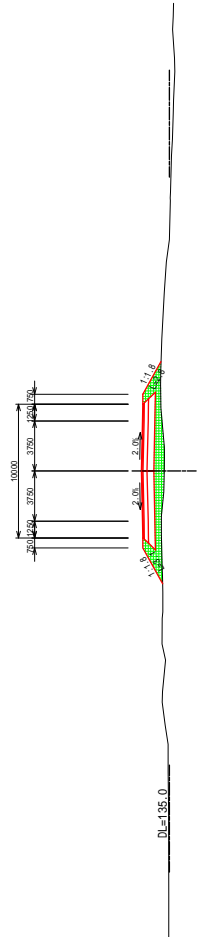
PK	214+500
Excavation	0.0 m
Shoulder	0.0 m
Embankment	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	2.3
Right Slope	2.3
Length of Embankment Slope	0.0 m
Left Slope	4.0
Right Slope	3.5

PK214+500  
Gh=134.92  
Ph=136.895



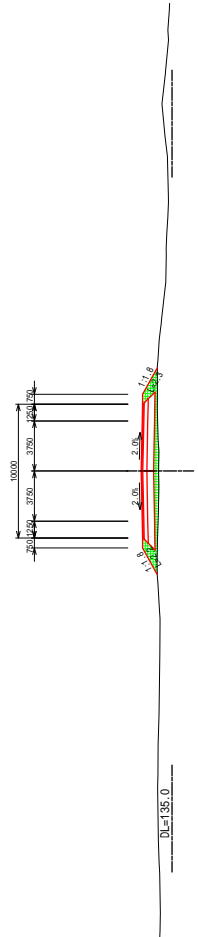
PK	214+450
Excavation	0.0 m
Shoulder	0.0 m
Embankment	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	3.1
Right Slope	2.8
Length of Embankment Slope	0.0 m
Left Slope	3.1
Right Slope	2.8

PK214+450  
Gh=135.40  
Ph=137.085



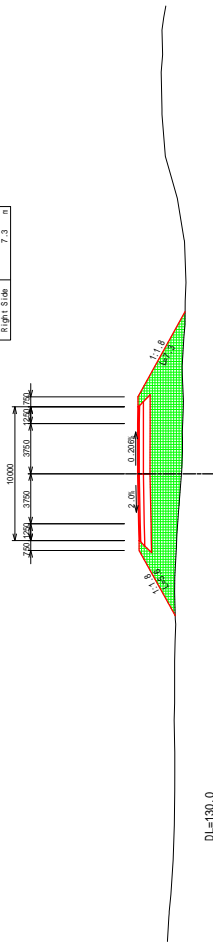
PK	214+400
Excavation	0.0 m
Shoulder	0.0 m
Embankment	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	2.3
Right Slope	2.3
Length of Embankment Slope	0.0 m
Left Slope	2.2
Right Slope	2.3

PK214+400  
Gh=135.99  
Ph=137.295



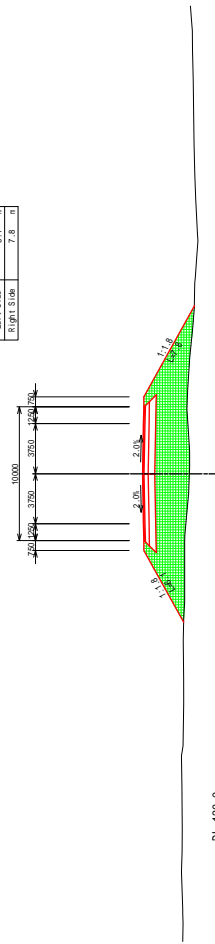
PK	214+750
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	6.1 m
Right Slope	7.8 m

PK214+750  
 GH=132.63  
 PH=135.885



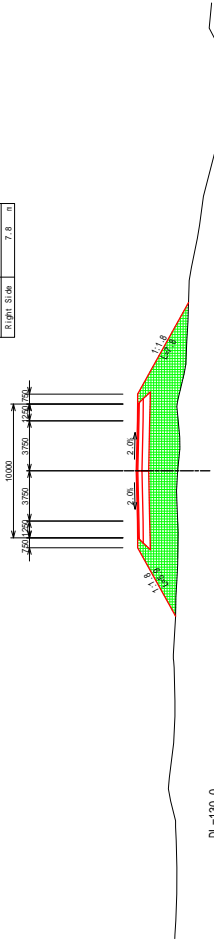
PK	214+700
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	6.1 m
Right Slope	7.8 m

PK214+700  
 GH=132.59  
 PH=136.085



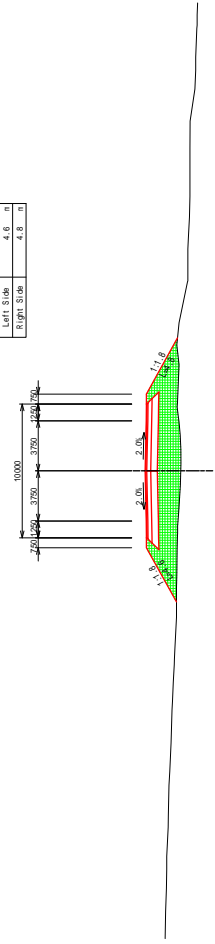
PK	214+650
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	5.9 m
Right Slope	7.8 m

PK214+650  
 GH=133.20  
 PH=136.285



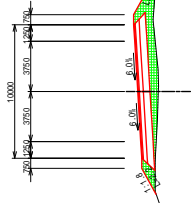
PK	214+600
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 m
Right Slope	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	4.6 m
Right Slope	4.8 m

PK214+600  
 GH=133.83  
 PH=136.685



PK	214+850
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	2.2 m
Left Slope	2.2 n
Right Slope	3.3 n

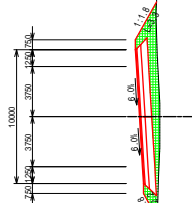
PK214+850  
GH=134.69  
PH=136.215



DL=130.0

PK	214+850
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	2.2 m
Left Slope	2.2 n
Right Slope	3.3 n

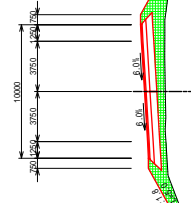
PK214+850  
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PH=136.215



DL=130.0

PK	214+900
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	5.0 m
Left Slope	5.0 n
Right Slope	5.4 n

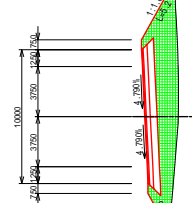
PK214+900  
GH=135.66  
PH=137.215



DL=130.0

PK	214+800
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	3.9 m
Left Slope	3.9 n
Right Slope	5.2 n

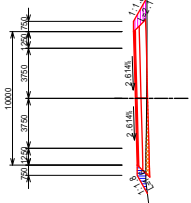
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PH=135.695



DL=130.0

PK	215+150	
Excavation	0.0	ft
Open Cut	1.2	ft
Enbankment	0.7	ft
Length of Excavation Slope	0.0	ft
Left Side	0.0	n
Right Side	0.0	n
Length of Enbankment Slope	1.8	n
Left Side	2.1	n
Right Side	2.1	n

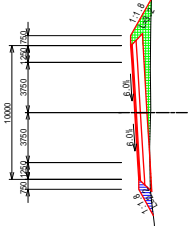
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 GH=140.53  
 PH=141.365



DL=135.0

PK	215+50	
Excavation	0.0	ft
Open Cut	0.1	ft
Enbankment	1.1	ft
Length of Excavation Slope	0.0	ft
Left Side	0.0	n
Right Side	0.0	n
Length of Enbankment Slope	2.2	n
Left Side	3.2	n
Right Side	3.2	n

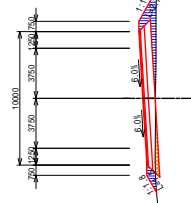
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 PH=140.215



DL=135.0

PK	215+100	
Excavation	0.0	ft
Open Cut	0.9	ft
Enbankment	3.8	ft
Length of Excavation Slope	0.0	ft
Left Side	0.0	n
Right Side	0.0	n
Length of Enbankment Slope	1.5	n
Left Side	2.7	n
Right Side	2.7	n

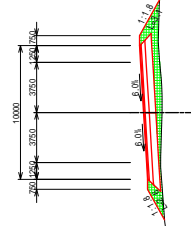
PK215+100  
 GH=140.12  
 PH=141.066




DL=135.0

PK	215+0	
Excavation	0.0	ft
Open Cut	0.0	ft
Enbankment	0.0	ft
Length of Excavation Slope	0.0	ft
Left Side	0.0	n
Right Side	0.0	n
Length of Enbankment Slope	2.6	n
Left Side	3.1	n
Right Side	3.1	n

PK215  
 GH=137.83  
 PH=139.215



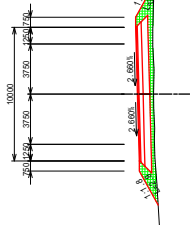
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 REPUBLIQUE DE DJIBOUTI MINISTERE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT	 JAPAN INTERNATIONAL COOPERATION AGENCY YACHIYO ENGINEERING CO., LTD.	THE PREPARATORY SURVEY FOR THE PROJECT FOR UPGRADING OF NATIONAL ROAD ROUTE 1 IN THE REPUBLIC OF DJIBOUTI	SHEET CONTENTS	SCALE	S=1:400
			CROSS SECTION PK215+000 ~ PK215+150	DATE	NOV 2018
			PAGE NO.	108 / 131	



PK	215+350
Excavation	0.0 m
Subgrade	0.0 m
Shoulder	0.0 m
Embankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	2.3 m
Left Side	2.3 m
Right Side	3.1 m

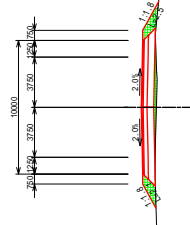
PK215+350  
GH=140.75  
PH=141.965



DL=135.0

PK	215+250
Excavation	0.0 m
Subgrade	0.0 m
Shoulder	0.0 m
Embankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	2.1 m
Left Side	2.1 m
Right Side	2.0 m

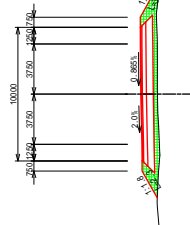
PK215+250  
GH=140.54  
PH=141.665



DL=135.0

PK	215+300
Excavation	0.0 m
Subgrade	0.0 m
Shoulder	0.0 m
Embankment	0.0 m
Length of Excavation Slope	2.4 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	2.3 m
Left Side	2.3 m
Right Side	3.1 m

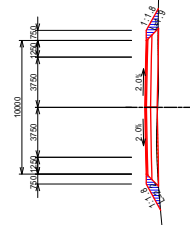
PK215+300  
GH=140.57  
PH=141.815



DL=135.0

PK	215+200
Excavation	0.0 m
Subgrade	0.4 m
Shoulder	0.4 m
Embankment	2.2 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	2.2 m
Left Side	2.2 m
Right Side	1.9 m

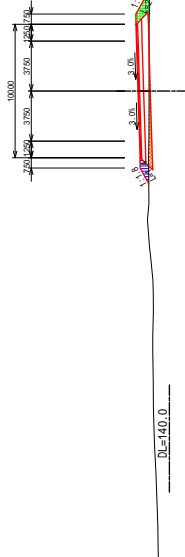
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GH=140.54  
PH=141.515



DL=135.0

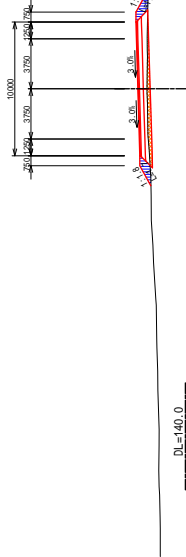
PK 215+450	
Excavation	
Excavation	0.0 m
Spill Slope	1.3 m
Embankment	0.7 m
Spill Slope	1.0 m
Spill Slope	1.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	1.4 m
Left Slope	1.4 n
Right Slope	2.1 n

PK215+450  
GH=141.53  
PH=142.353



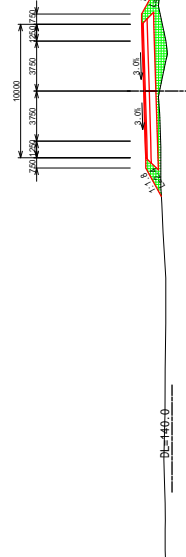
PK 215+550	
Excavation	
Excavation	0.0 m
Spill Slope	2.1 m
Embankment	1.9 m
Spill Slope	0.0 m
Spill Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	1.7 m
Left Slope	1.7 n
Right Slope	1.9 n

PK215+550  
GH=142.388  
PH=143.565



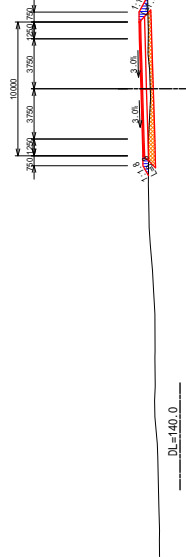
PK 215+400	
Excavation	
Excavation	0.0 m
Spill Slope	0.0 m
Embankment	0.0 m
Spill Slope	0.0 m
Spill Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	2.4 m
Left Slope	2.4 n
Right Slope	3.0 n

PK215+400  
GH=140.93  
PH=142.115



PK 215+500	
Excavation	
Excavation	0.0 m
Spill Slope	3.6 m
Embankment	1.1 m
Spill Slope	0.0 m
Spill Slope	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	0.8 m
Left Slope	0.8 n
Right Slope	1.3 n

PK215+500  
GH=142.21  
PH=142.915



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JAPAN INTERNATIONAL COOPERATION AGENCY  
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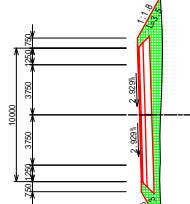
THE PREPARATORY SURVEY FOR  
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CROSS SECTION  
PK215+400 ~ PK215+550

SCALE S=1:400  
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PK 215+650	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	1.4 m
Left Slope	1.7 m
Right Slope	1.7 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	1.8 m
Left Slope	3.3 n
Right Slope	3.3 n

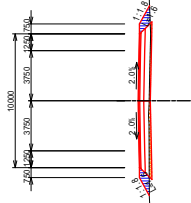
PK215+650  
 GH=143.28  
 PH=144.865



DL=140.0

PK 215+750	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	1.4 m
Left Slope	1.7 m
Right Slope	1.7 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	1.8 m
Left Slope	1.8 m
Right Slope	1.8 m

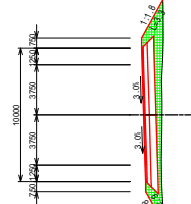
PK215+750  
 GH=145.33  
 PH=146.165



DL=140.0

PK 215+600	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	1.4 m
Left Slope	1.7 m
Right Slope	1.7 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	1.8 m
Left Slope	2.9 n
Right Slope	3.3 n

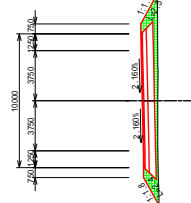
PK215+600  
 GH=142.87  
 PH=144.215



DL=140.0

PK 215+700	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	1.4 m
Left Slope	1.7 m
Right Slope	1.7 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	1.8 m
Left Slope	2.4 n
Right Slope	2.5 n

PK215+700  
 GH=144.34  
 PH=145.515



DL=140.0



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JAPAN INTERNATIONAL COOPERATION AGENCY  
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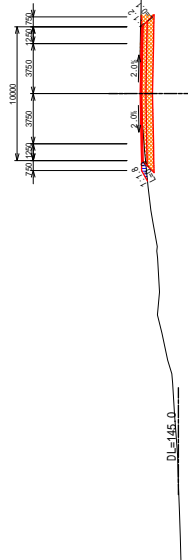
THE PREPARATORY SURVEY FOR  
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SHEET CONTENTS  
 CROSS SECTION  
 PK215+600 ~ PK215+750

SCALE S=1:400  
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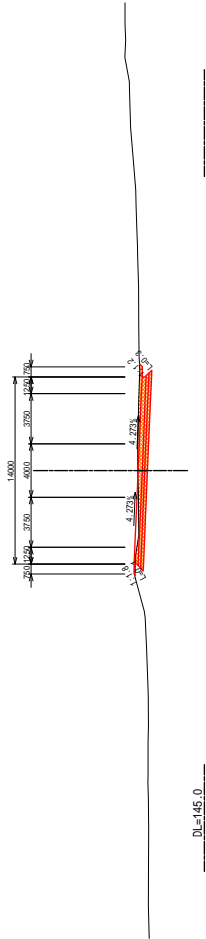
<b>PK 215+850</b>	
Excavation	0.0 m
20022644501	8.8 m
20022644502	10.2 m
Enchantment	0.3 m
20022644503	0.0 m
20022644504	0.0 m
20022644505	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.1 n
Length of Embankment Slope	0.9 m
Left Slope	0.0 n
Right Slope	0.0 n

**PK215+850**  
 CH=147.82  
 PH=147.865



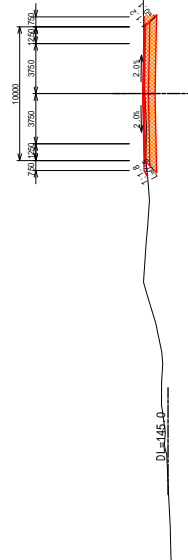
<b>PK 215+950</b>	
Excavation	0.0 m
20022644501	10.2 m
Enchantment	0.1 m
20022644502	0.0 m
20022644503	0.0 m
20022644504	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.3 n
Length of Embankment Slope	0.1 m
Left Slope	0.0 n
Right Slope	0.0 n

**PK215+950**  
 CH=149.88  
 PH=149.865



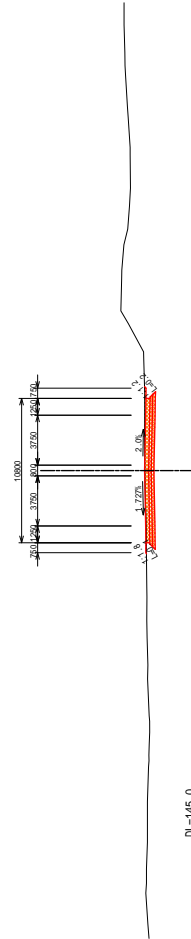
<b>PK 215+800</b>	
Excavation	0.0 m
20022644501	9.4 m
Enchantment	0.2 m
20022644502	0.0 m
20022644503	0.0 m
20022644504	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.1 n
Length of Embankment Slope	0.5 m
Left Slope	0.0 n
Right Slope	0.0 n

**PK215+800**  
 CH=146.73  
 PH=146.865



<b>PK 215+900</b>	
Excavation	0.0 m
20022644501	7.9 m
Enchantment	0.0 m
20022644502	0.0 m
20022644503	0.0 m
20022644504	0.0 m
Length of Embankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.2 n
Length of Embankment Slope	0.1 m
Left Slope	0.0 n
Right Slope	0.0 n

**PK215+900**  
 CH=148.88  
 PH=148.915



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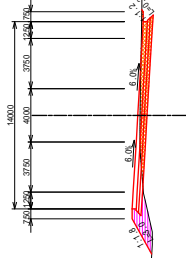
THE PREPARATORY SURVEY FOR  
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SHEET CONTENTS  
 CROSS SECTION  
 PK215+800 ~ PK215+950

SCALE S=1:400  
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PK	216+150
Excavation	0.0 m
Spore Size	6.7 m
Enchantment	0.0 m
Spore Size	3.0 m
Enchantment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.2 m
Right Side	0.2 m
Length of Enchantment Slope	3.0 m
Left Side	0.0 m
Right Side	0.0 m

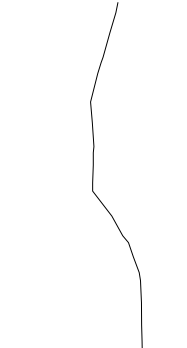
PK216+150  
GH=149.37  
PH=149.545



DL=145.0

PK	216+50
Excavation	0.0 m
Spore Size	7.2 m
Enchantment	1.1 m
Spore Size	0.0 m
Enchantment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.2 m
Length of Enchantment Slope	1.8 m
Left Side	0.0 m
Right Side	0.0 m

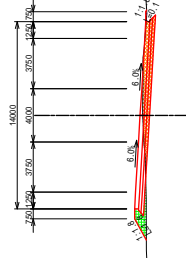
PK216+50  
GH=148.77  
PH=149.075



DL=145.0

PK	216+100
Excavation	0.0 m
Spore Size	5.9 m
Enchantment	0.0 m
Spore Size	2.5 m
Enchantment	0.0 m
Length of Excavation Slope	1.4 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enchantment Slope	1.8 m
Left Side	0.1 m
Right Side	0.1 m

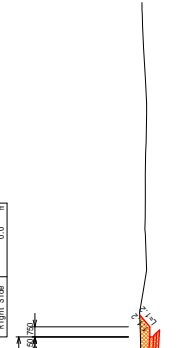
PK216+100  
GH=149.50  
PH=149.695



DL=145.0

PK	216+0
Excavation	0.0 m
Spore Size	14.0 m
Enchantment	0.8 m
Spore Size	2.5 m
Enchantment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	1.2 m
Length of Enchantment Slope	1.4 m
Left Side	0.0 m
Right Side	0.0 m

PK216  
GH=150.36  
PH=150.327



DL=145.0



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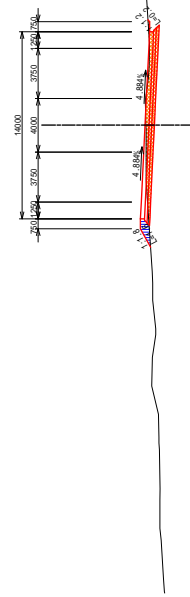
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PK216+000 ~ PK216+150

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<b>PK 216+250</b>	
Excavation	0.0 m
Spillway	7.8 m
Enbankment	0.8 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.2 m
Length of Embankment Slope	1.8 m
Left Side	0.0 m
Right Side	0.0 m

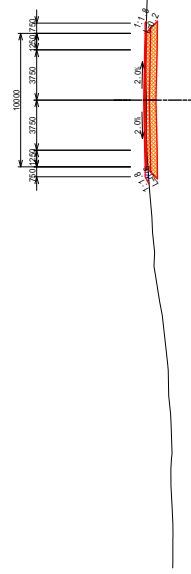
**PK216+250**  
GH=149.38  
PH=149.448



DL=145.0

<b>PK 216+350</b>	
Excavation	0.0 m
Spillway	8.6 m
Enbankment	0.3 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.8 m
Left Side	0.8 m
Right Side	0.2 m

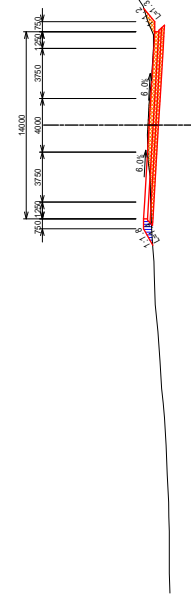
**PK216+350**  
GH=150.56  
PH=150.745



DL=145.0

<b>PK 216+200</b>	
Excavation	0.0 m
Spillway	9.4 m
Enbankment	0.7 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	1.3 m
Length of Embankment Slope	1.4 m
Left Side	0.0 m
Right Side	0.0 m

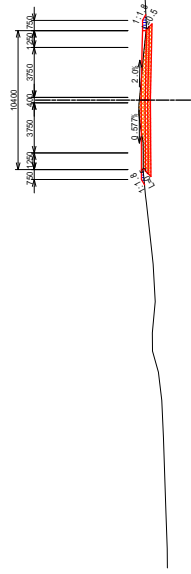
**PK216+200**  
GH=149.49  
PH=149.395



DL=145.0

<b>PK 216+300</b>	
Excavation	0.0 m
Spillway	7.2 m
Enbankment	0.4 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.5 m
Left Side	0.5 m
Right Side	0.5 m

**PK216+300**  
GH=150.13  
PH=149.995



DL=145.0



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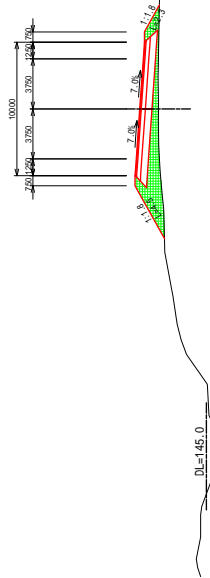
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CROSS SECTION  
PK216+200 ~ PK216+350

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PK 216+550	
Excavation	0.0 m <sup>2</sup>
2000/2000/50/1	0.0 m <sup>2</sup>
Embankment	0.0 m <sup>2</sup>
2000/2000/50/1	0.0 m <sup>2</sup>
Length of Embankment Slope	1.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.5 m
Left Side	2.3 m
Right Side	2.3 m

PK216+550  
GH=148.60  
PH=149.995



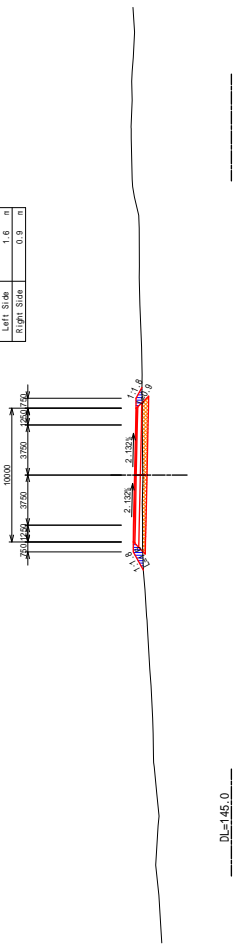
PK 216+500	
Excavation	0.0 m <sup>2</sup>
2000/2000/50/1	0.0 m <sup>2</sup>
Embankment	1.2 m <sup>2</sup>
2000/2000/50/1	0.0 m <sup>2</sup>
Length of Embankment Slope	2.3 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	4.3 m
Left Side	2.1 m
Right Side	2.1 m

PK216+500  
GH=150.90  
PH=152.151



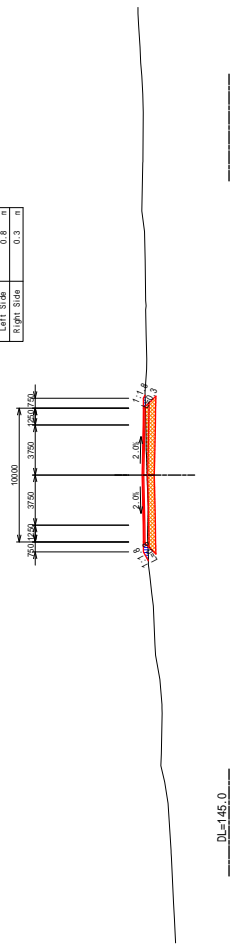
PK 216+450	
Excavation	0.0 m <sup>2</sup>
2000/2000/50/1	3.8 m <sup>2</sup>
Embankment	1.2 m <sup>2</sup>
2000/2000/50/1	0.0 m <sup>2</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	1.8 m
Left Side	0.9 m
Right Side	0.9 m

PK216+450  
GH=151.53  
PH=152.245



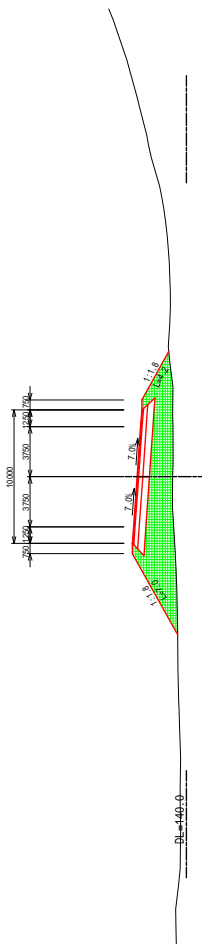
PK 216+400	
Excavation	0.0 m <sup>2</sup>
2000/2000/50/1	6.8 m <sup>2</sup>
Embankment	0.4 m <sup>2</sup>
2000/2000/50/1	0.0 m <sup>2</sup>
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.8 m
Left Side	0.3 m
Right Side	0.3 m

PK216+400  
GH=151.13  
PH=151.485



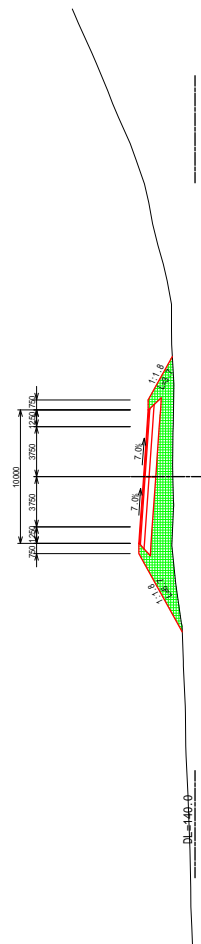
PK	216+750
Excavation	0.0 m
200g Sand Soil	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	0.0 m
Left Slope	7.0 n
Right Slope	7.2 n

PK216+750  
 GH=141.00  
 PH=143.685



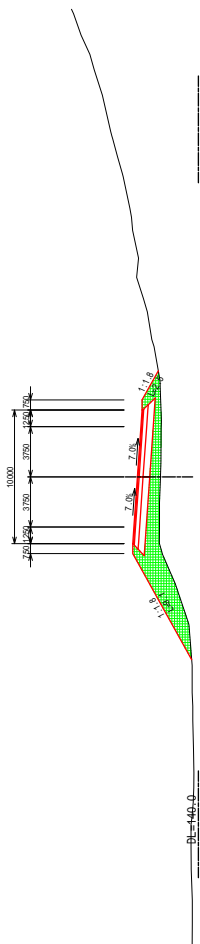
PK	216+700
Excavation	0.0 m
200g Sand Soil	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	0.0 m
Left Slope	9.7 n
Right Slope	3.7 n

PK216+700  
 GH=141.00  
 PH=143.645



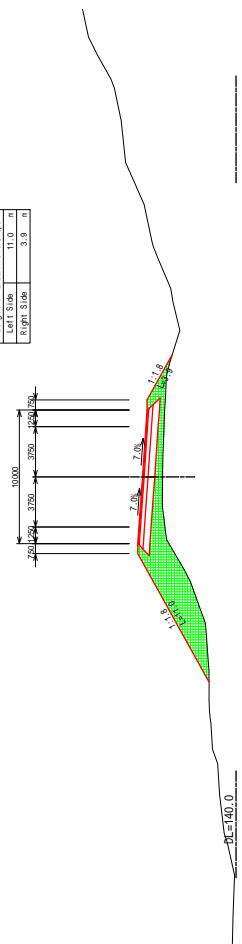
PK	216+650
Excavation	0.0 m
200g Sand Soil	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	0.0 m
Left Slope	9.1 n
Right Slope	2.0 n

PK216+650  
 GH=142.85  
 PH=144.585



PK	216+600
Excavation	0.0 m
200g Sand Soil	0.0 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Enbankment Slope	0.0 m
Left Slope	11.0 n
Right Slope	3.9 n

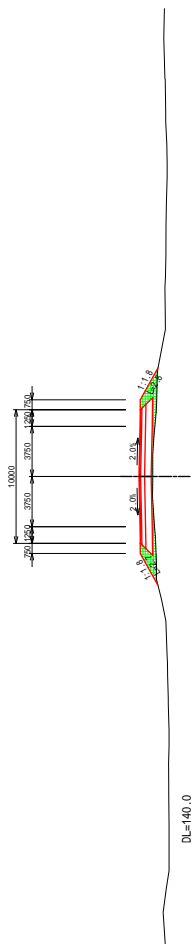
PK216+600  
 GH=145.49  
 PH=146.985





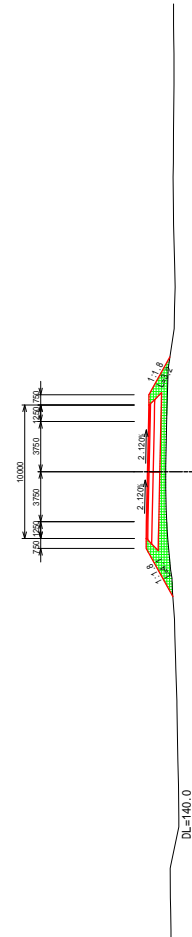
PK 216+850	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Separation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	0.0 m
Left Slope	4.1 n
Right Slope	3.2 n

PK216+850  
 GH=142.06  
 PH=143.438



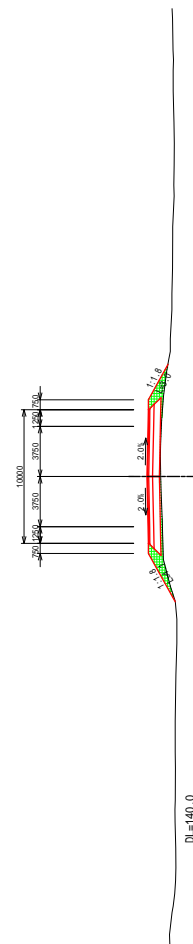
PK 216+850	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Separation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	0.0 m
Left Slope	4.1 n
Right Slope	3.2 n

PK216+850  
 GH=142.06  
 PH=143.438



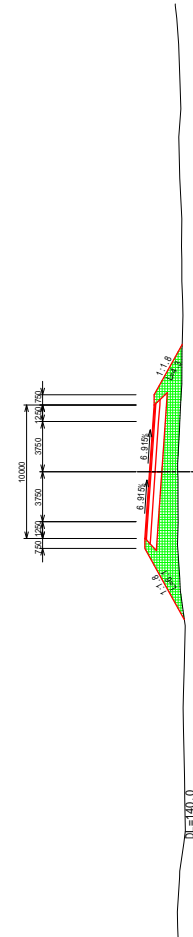
PK 216+900	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Separation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	0.0 m
Left Slope	4.1 n
Right Slope	3.0 n

PK216+900  
 GH=142.70  
 PH=143.720



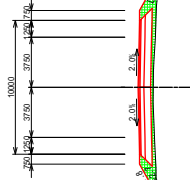
PK 216+800	
Excavation	0.0 m
Shoulder	0.0 m
Enbankment	0.0 m
Length of Separation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Length of Embankment Slope	0.0 m
Left Slope	6.1 n
Right Slope	4.3 n

PK216+800  
 GH=141.43  
 PH=143.545



PK 217+150	
Excavation	0.0 m
Shoulder Slope	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	2.7 m
Left Side	2.7 m
Right Side	3.1 m

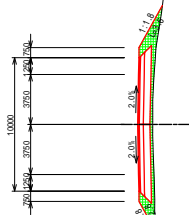
PK217+150  
 GH=144.35  
 PH=145.480



DL=140.0

PK 217+50	
Excavation	0.0 m
Shoulder Slope	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	2.8 m
Left Side	2.8 m
Right Side	3.0 m

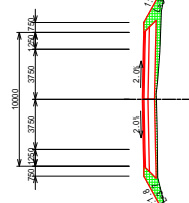
PK217+50  
 GH=143.64  
 PH=144.780



DL=140.0

PK 217+100	
Excavation	0.0 m
Shoulder Slope	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.7 m
Left Side	3.7 m
Right Side	3.7 m

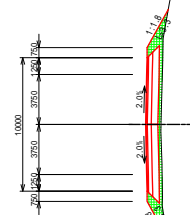
PK217+100  
 GH=144.08  
 PH=145.130



DL=140.0

PK 217+0	
Excavation	0.0 m
Shoulder Slope	0.0 m
Enbankment	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	3.3 m
Left Side	3.3 m
Right Side	3.3 m

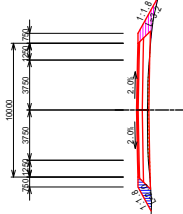
PK217  
 GH=143.28  
 PH=144.430



DL=140.0

PK	217+350
Excavation	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.9 m
Enbankment	1.2 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	2.0 m
Left Side	2.0 m
Right Side	2.2 m

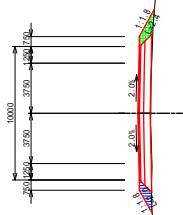
PK217+350  
 GH=146.06  
 PH=146.880



DL=140.0

PK	217+250
Excavation	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Enbankment	1.1 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	2.0 m
Left Side	2.0 m
Right Side	2.4 m

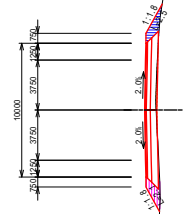
PK217+250  
 GH=145.22  
 PH=146.180



DL=140.0

PK	217+300
Excavation	0.0 m
Shoulder Slope	0.4 m
Shoulder Slope	0.4 m
Enbankment	1.3 m
Shoulder Slope	1.5 m
Shoulder Slope	1.5 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	2.1 m
Left Side	2.1 m
Right Side	2.5 m

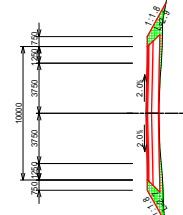
PK217+300  
 GH=145.67  
 PH=146.530



DL=140.0

PK	217+200
Excavation	0.0 m
Shoulder Slope	0.0 m
Shoulder Slope	0.0 m
Enbankment	0.0 m
Shoulder Slope	2.5 m
Shoulder Slope	2.5 m
Length of Excavation Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Enbankment Slope	2.7 m
Left Side	2.7 m
Right Side	2.9 m

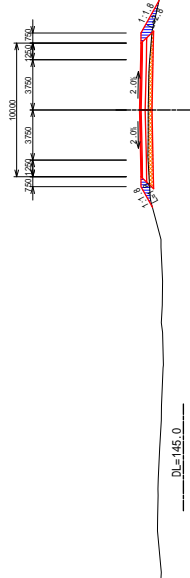
PK217+200  
 GH=144.85  
 PH=145.530



DL=140.0

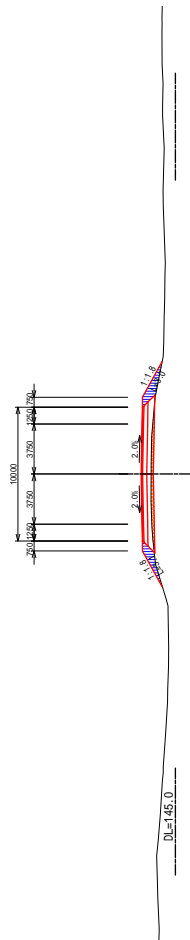
PK	217+450
Excavation	0.0 m
Shoulder	3.3 m
Embankment	2.0 m
Shoulder	3.3 m
Excavation	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	1.8 m
Right Side	2.8 m

PK217+450  
GH=147.65  
PH=148.280



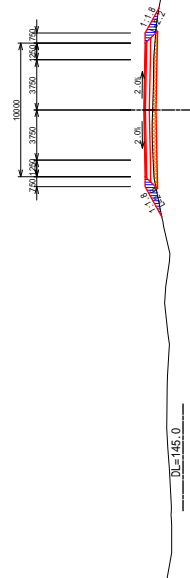
PK	217+450
Excavation	0.0 m
Shoulder	1.7 m
Embankment	2.0 m
Shoulder	1.7 m
Excavation	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	3.1 m
Right Side	3.0 m

PK217+450  
GH=146.82  
PH=147.580



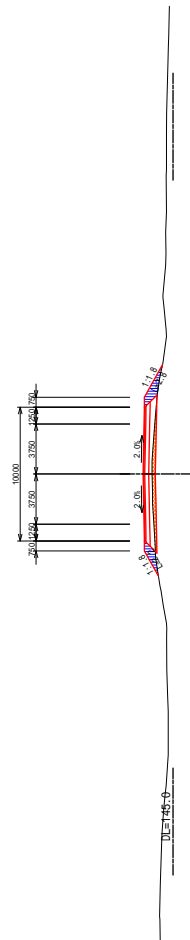
PK	217+500
Excavation	0.0 m
Shoulder	3.0 m
Embankment	2.2 m
Shoulder	3.0 m
Excavation	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	2.6 m
Right Side	2.2 m

PK217+500  
GH=147.27  
PH=147.930



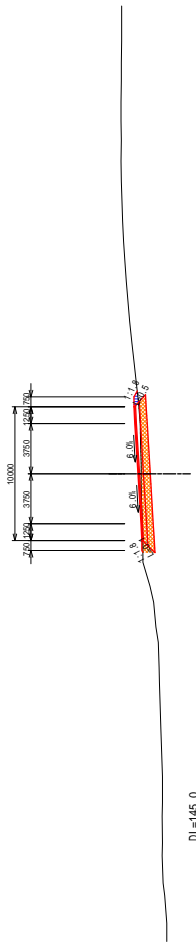
PK	217+400
Excavation	0.0 m
Shoulder	2.1 m
Embankment	2.4 m
Shoulder	2.5 m
Excavation	0.0 m
Length of Embankment Slope	0.0 m
Left Side	0.0 m
Right Side	0.0 m
Length of Embankment Slope	0.0 m
Left Side	2.2 m
Right Side	2.8 m

PK217+400  
GH=146.55  
PH=147.230



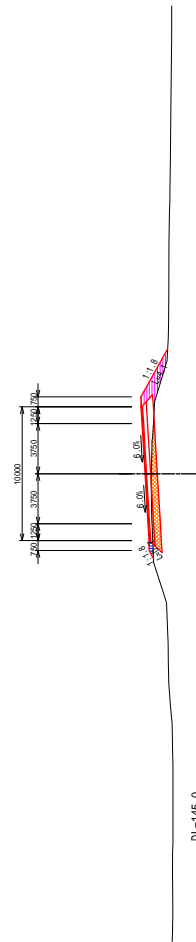
PK	217+750
Excavation	0.0 m
Shoulder	7.9 m
Enchantment	0.3 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.3 n

PK217+750  
GH=149.44  
PH=149.680



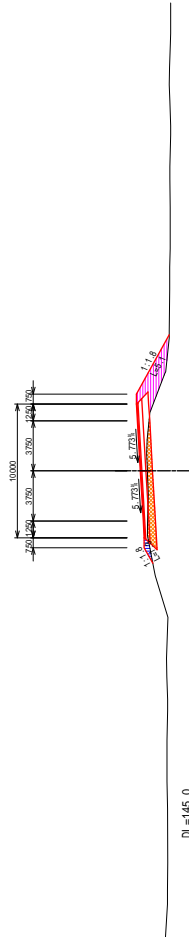
PK	217+700
Excavation	0.0 m
Shoulder	4.3 m
Enchantment	0.3 m
Length of Excavation Slope	2.7 m
Left Slope	0.0 n
Right Slope	4.1 n

PK217+700  
GH=148.86  
PH=149.330



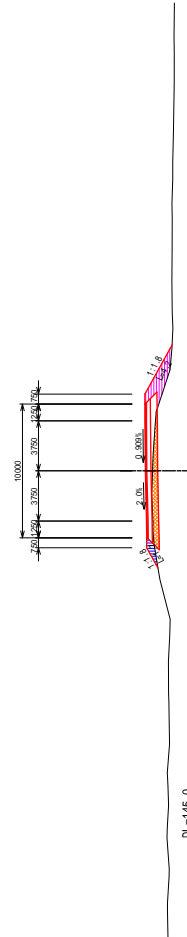
PK	217+650
Excavation	0.0 m
Shoulder	3.9 m
Enchantment	0.5 m
Length of Excavation Slope	0.0 m
Left Slope	0.0 n
Right Slope	6.1 n

PK217+650  
GH=148.45  
PH=148.980



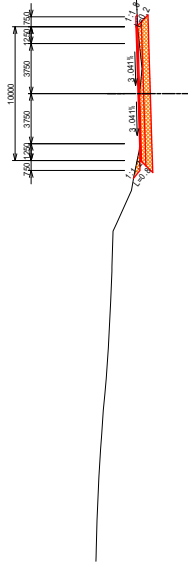
PK	217+600
Excavation	0.0 m
Shoulder	3.5 m
Enchantment	0.7 m
Length of Excavation Slope	3.3 m
Left Slope	0.0 n
Right Slope	4.2 n

PK217+600  
GH=148.10  
PH=148.630



PK 217+850	
Excavation	0.0 m
Subgrade	9.0 m
Enbankment	0.1 m
Length of Enbankment Slope	0.0 m
Left Slope	0.8 n
Right Slope	0.0 n
Left Slope	0.0 n
Right Slope	0.2 n

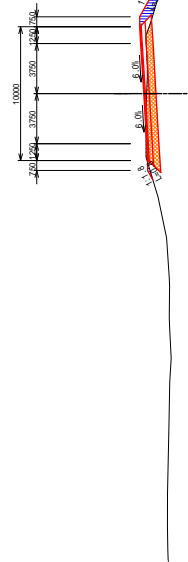
PK217+850  
GH=150.23  
PH=150.345



DL=145.0

PK 217+800	
Excavation	0.0 m
Subgrade	7.5 m
Enbankment	1.9 m
Length of Enbankment Slope	0.0 m
Left Slope	0.0 n
Right Slope	0.0 n
Left Slope	0.8 n
Right Slope	3.1 n

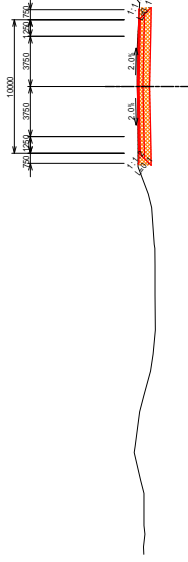
PK217+800  
GH=149.81  
PH=150.030



DL=145.0

PK 217+890	
Excavation	0.0 m
Subgrade	11.1 m
Enbankment	0.0 m
Length of Enbankment Slope	0.0 m
Left Slope	0.1 n
Right Slope	0.0 n
Left Slope	0.0 n
Right Slope	0.1 n

PK217+890  
GH=150.51  
PH=150.500



DL=145.0



REPUBLIQUE DE DJIBOUTI  
MINISTRE DE L'EQUIPEMENT ET DES TRANSPORTS  
DIRECTION DE L'EQUIPEMENT



JAPAN INTERNATIONAL COOPERATION AGENCY  
YACHIYO ENGINEERING CO., LTD.

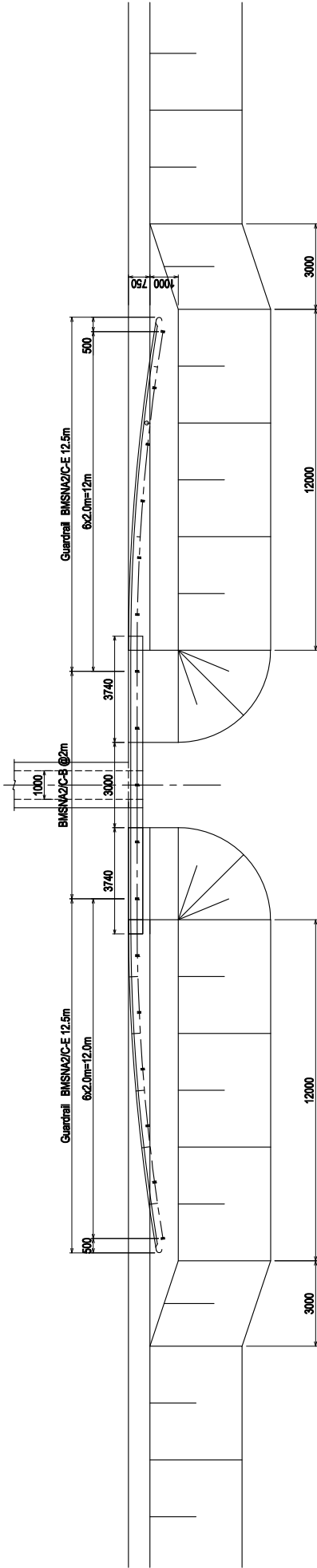
THE PREPARATORY SURVEY FOR  
THE PROJECT FOR  
UPGRADING OF NATIONAL ROAD ROUTE 1  
IN THE REPUBLIC OF DJIBOUTI

SHEET CONTENTS  
CROSS SECTION  
PK217+800 ~ PK217+890

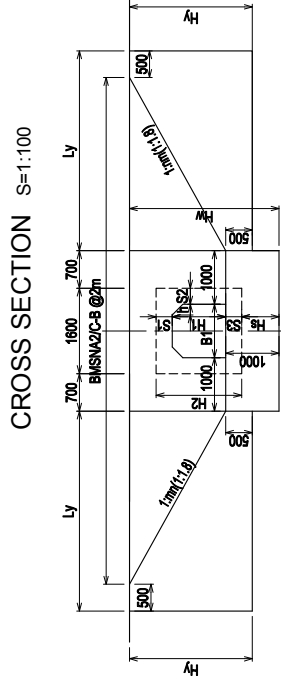
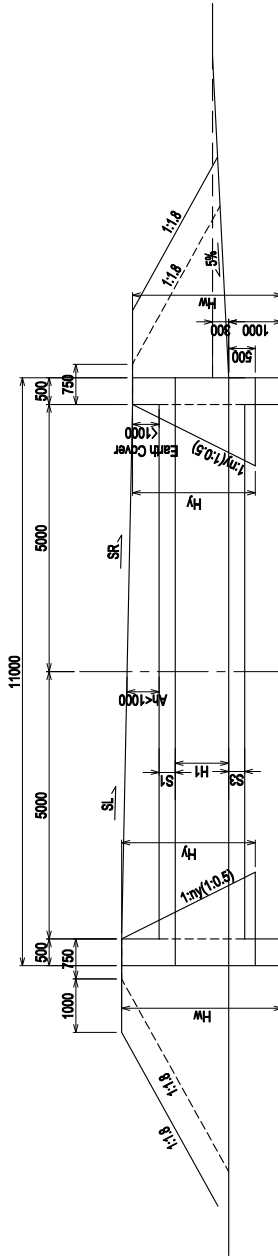
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DATE NOV 2018  
PAGE NO. 122 / 131

# STANDARD DRAWING OF BOX CULVERT (1)

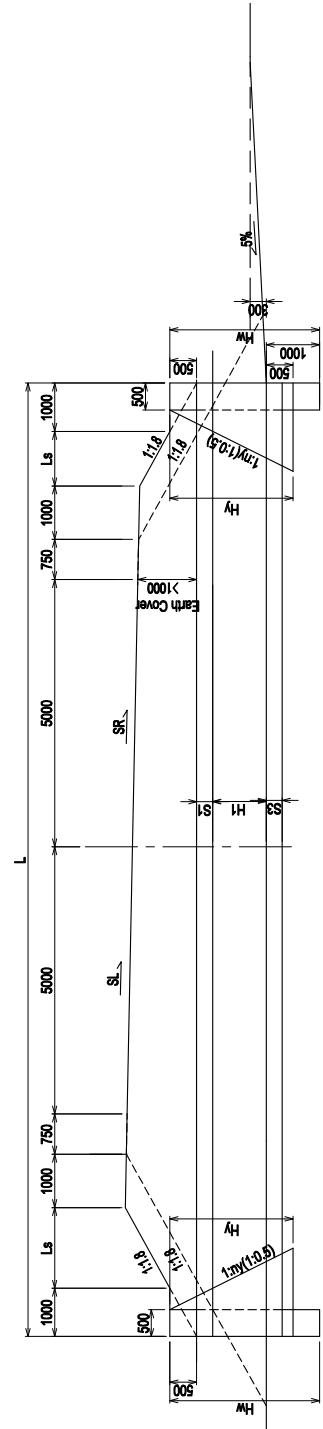
PLAN S=1:150



Type-A S=1:100  
(Earth Cover Depth at Edge of Shoulder < 1000)



Type-B S=1:100  
(Earth Cover Depth at Edge of Shoulder > 1000)



 <p>REPUBLIQUE DE DJIBOUTI MINISTERE DE L'EQUIPEMENT ET DES TRANSPORTS DIRECTION DE L'EQUIPEMENT</p>	 <p>JAPAN INTERNATIONAL COOPERATION AGENCY YACHIO ENGINEERING CO., LTD.</p>	THE PREPARATORY SURVEY FOR THE PROJECT FOR UPGRADING OF NATIONAL ROAD ROUTE 1 IN THE REPUBLIC OF DJIBOUTI		SHEET CONTENTS	SCALE	Shown
		STANDARD DRAWING OF BOX CULVERT (1)		DATE	NOV 2018	PAGE NO.

# STANDARD DRAWING OF BOX CULVERT (2)

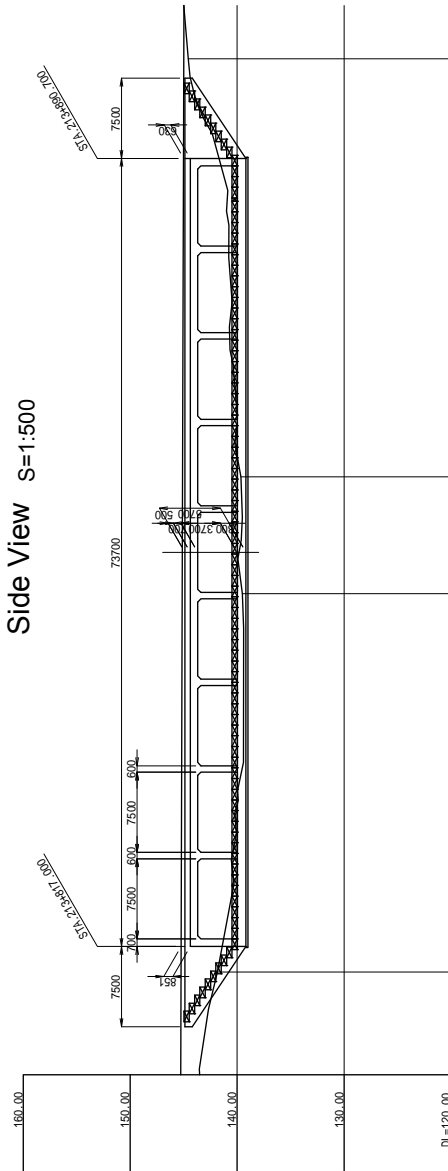
Mark	Unit	Box-1	Box-2	Box-3	Box-4	Box-5	Box-6	Box-7	Box-8	Box-9	Box-10	Box-11	Box-12	Box-13	Box-14	Box-15	Box-16	Box-17	Box-18	Box-19	
-	-	1.0x1.0	1.0x1.0	1.0x1.0	1.0x1.0	1.0x1.0	1.0x1.0	1.5x1.0	1.5x1.0	1.0x1.0	1.0x1.0	1.0x1.0	1.0x1.0	1.5x1.0	2.0x1.0	1.0x1.0	1.5x1.0	2.0x1.0	1.0x1.0	1.0x1.0	1.0x1.0
Sta	-	197+484.0	197+792.1	198+018.3	198+268.7	198+484.4	198+692.1	198+863.1	199+278.3	200+375.7	201+403.0	201+942.2	202+800.0	204+585.0	205+700.0	207+402.0	207+560.0	208+156.0	208+789.8	209+190.8	209+190.8
Type	-	A	B	B	B	B	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A
Bx	Box	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
WL	m	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
WR	m	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
SL	%	2.00%	2.00%	2.00%	2.00%	2.00%	3.60%	2.00%	2.00%	2.00%	2.00%	2.00%	-2.00%	2.00%	2.00%	2.00%	2.71%	2.00%	2.00%	2.00%	2.00%
SR	%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%
Ob	m	0.88	1.40	1.20	2.05	1.00	0.88	0.98	2.68	0.87	1.13	0.72	0.77	1.68	0.95	0.70	0.85	0.95	0.88	0.82	0.82
L	m	11.00	17.73	17.02	20.08	16.30	11.00	11.00	22.33	11.00	16.78	11.00	11.00	18.75	11.00	11.00	11.00	11.00	11.00	11.00	11.00
B1	m	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.50	1.00	1.00	1.00	1.00	1.50	2.00	1.00	1.50	2.00	1.00	1.00	1.00
H1	m	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B2	m	1.60	1.60	1.60	1.60	1.60	1.60	1.60	2.30	1.60	1.60	1.60	1.60	2.30	2.80	1.60	2.30	2.80	1.60	1.60	1.60
H2	m	1.60	1.60	1.60	1.60	1.60	1.60	1.70	1.70	1.60	1.60	1.60	1.60	1.70	1.70	1.60	1.70	1.70	1.60	1.60	1.60
S1	m	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
S2	m	0.30	0.30	0.30	0.30	0.30	0.30	0.40	0.40	0.30	0.30	0.30	0.30	0.40	0.40	0.30	0.40	0.40	0.30	0.30	0.30
S3	m	0.30	0.30	0.30	0.30	0.30	0.30	0.40	0.40	0.30	0.30	0.30	0.30	0.40	0.40	0.30	0.40	0.40	0.30	0.30	0.30
H	m	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
S4	m	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Ah	m	0.875	0.500	0.500	0.500	0.500	0.875	0.978	0.500	0.868	0.500	0.720	0.765	0.500	0.950	0.698	0.850	0.950	0.878	0.823	0.823
Ls	m	0.000	1.616	1.260	2.790	0.900	0.000	0.000	3.915	0.000	1.139	0.000	0.000	2.124	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Lw	m	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Hs	m	0.70	0.70	0.70	0.70	0.70	0.70	0.60	0.60	0.70	0.70	0.70	0.70	0.60	0.60	0.70	0.60	0.60	0.70	0.70	0.70
B3	m	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
B4	m	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Hv	m	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
Hv0	m	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Hv	m	2.68	2.30	2.30	2.68	2.30	2.68	2.78	2.30	2.67	2.30	2.52	2.57	2.30	2.75	2.50	2.65	2.75	2.68	2.62	2.62
Ly	m	4.42	3.74	3.74	4.42	3.74	4.42	4.60	3.74	4.40	3.74	4.14	4.22	3.74	4.55	4.10	4.37	4.55	4.42	4.32	4.32
Ny	-	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Hw	m	3.18	2.80	2.80	3.18	2.80	3.18	3.28	2.80	3.17	2.80	3.02	3.07	2.80	3.25	3.00	3.15	3.25	3.18	3.12	3.12

Mark	Unit	Box-20	Box-21	Box-22	Box-23	Box-24	Box-25	Box-26	Box-27	Box-28	Box-29	Box-30	Box-31	Box-32	Box-33	Box-34	Box-35	Box-36	Box-37	Box-38	Box-40	
-	-	2.0x1.0	2.0x1.0	2.0x1.0	2.0x1.0	2.0x1.0	2.0x1.0	2.0x1.0	2.0x1.0	2.0x1.0	1.5x1.0	1.0x1.0	1.0x1.0	1.0x1.0	1.0x1.0	1.0x1.0	3.0x2.0	7.5x3.7	3.5x2.0	3.5x2.0	2.0x1.5	1.0x1.0
Sta	-	209+592.0	209+828.0	210+140.0	210+738.0	211+250.0	211+250.0	211+871.6	211+992.0	212+288.0	212+650.0	212+752.9	212+818.2	213+354.3	213+410.6	213+514.0	213+652.0	214+675.0	214+675.0	214+675.0	216+765.0	217+875.4
Type	-	A	B	B	B	A	A	A	A	B	B	B	A	A	A	B	B	B	B	A	A	A
Bx	Box	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2	2	2	6	1	1
WL	m	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
WR	m	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
SL	%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	3.088%	2.00%
SR	%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%	-2.00%
Ob	m	0.92	1.46	1.92	1.02	0.88	0.74	0.77	0.83	1.00	1.67	1.22	0.93	0.94	1.68	1.40	1.88	1.16	0.80	0.80	0.96	0.96
L	m	11.00	17.94	19.62	16.38	11.00	11.00	11.00	11.00	16.30	18.71	17.08	11.00	11.00	18.73	17.74	19.46	16.89	11.00	11.00	11.00	11.00
B1	m	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.50	1.00	1.00	1.00	1.00	1.00	3.00	3.50	3.50	2.00	2.00	1.00
H1	m	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	2.00	2.00	1.00
B2	m	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	7.50	8.50	8.50	2.450	2.80	1.60
H2	m	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.60	2.90	2.90	2.90	2.90	1.60
S1	m	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.40	0.40	0.40	0.40	0.30	0.30
S2	m	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.50	0.50	0.50	0.50	0.40	0.30
S3	m	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.50	0.50	0.50	0.50	0.40	0.30
H	m	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
S4	m	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Ah	m	0.923	0.950	1.719	2.561	0.941	0.000	0.000	0.000	0.828	0.900	2.106	1.292	0.000	2.115	1.620	2.480	0.900	0.800	0.798	0.958	0.958
Ls	m	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.193	0.000	0.000	0.000	0.000</

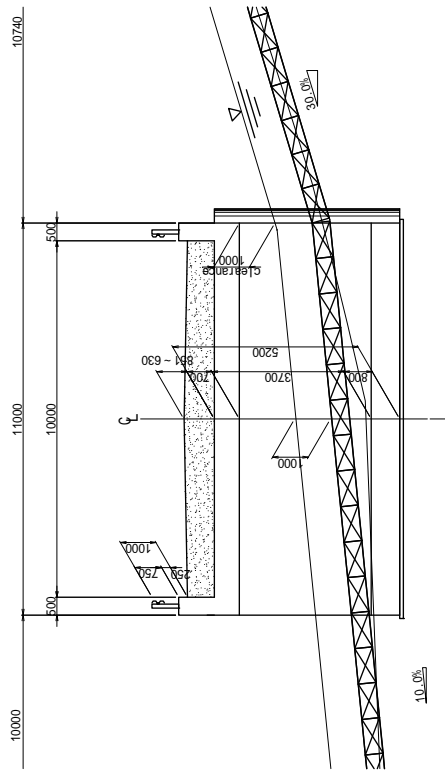


# GENERAL DRAWING OF BOX CULVERT (Box-36 at PK213+843)

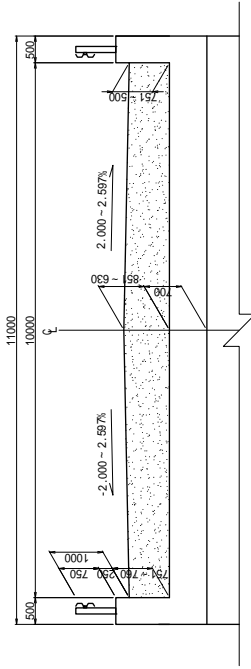
Side View S=1:500



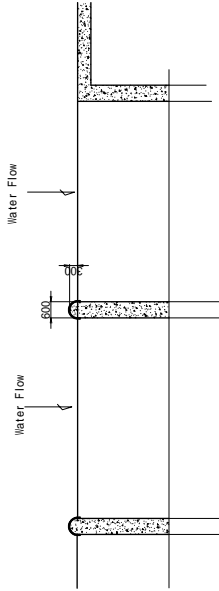
Cross Section S=1:150



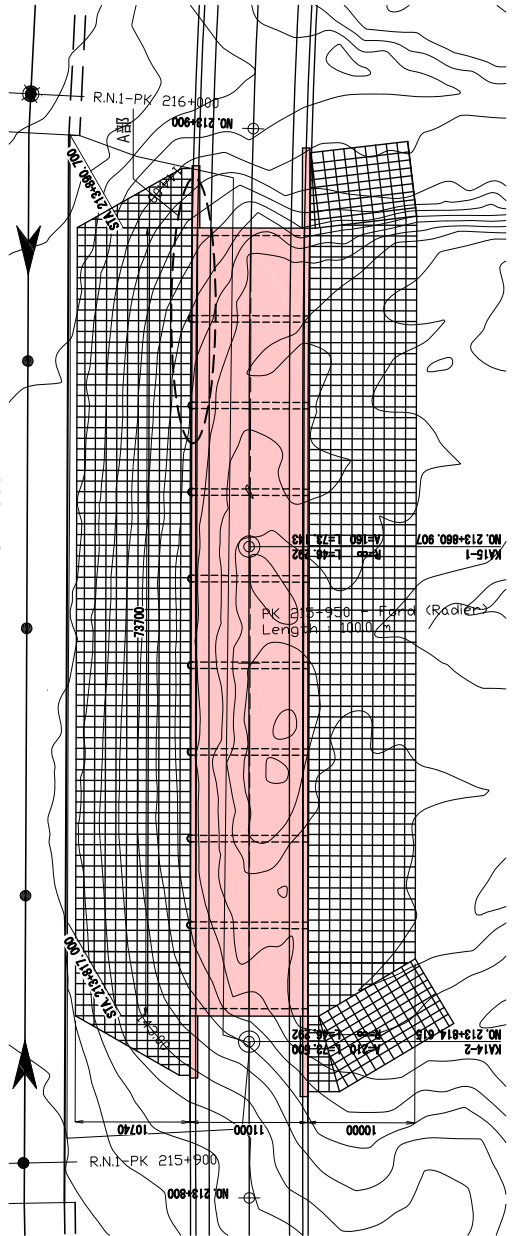
Pavement Details S=1:100



"A" Detail S=1:200



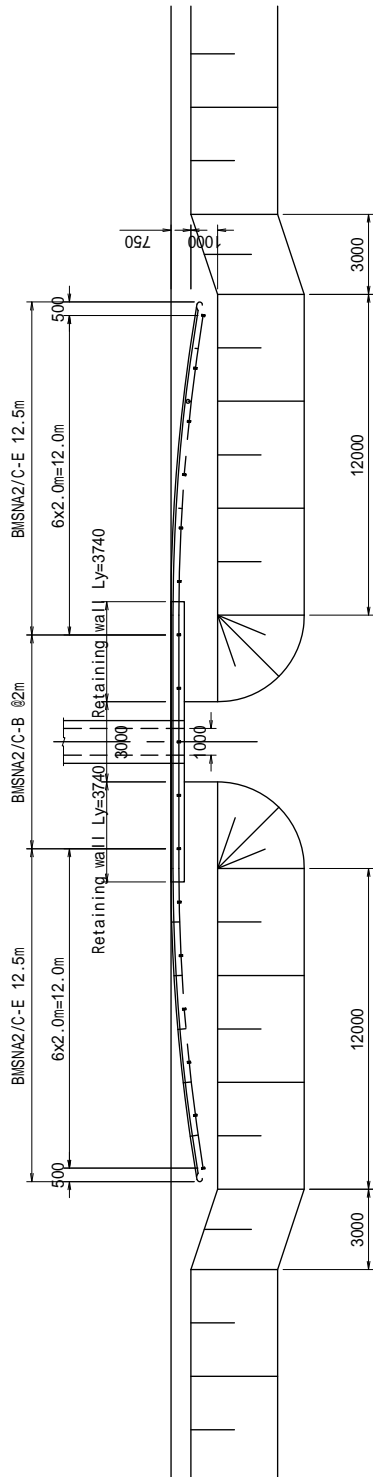
Plan S=1:500



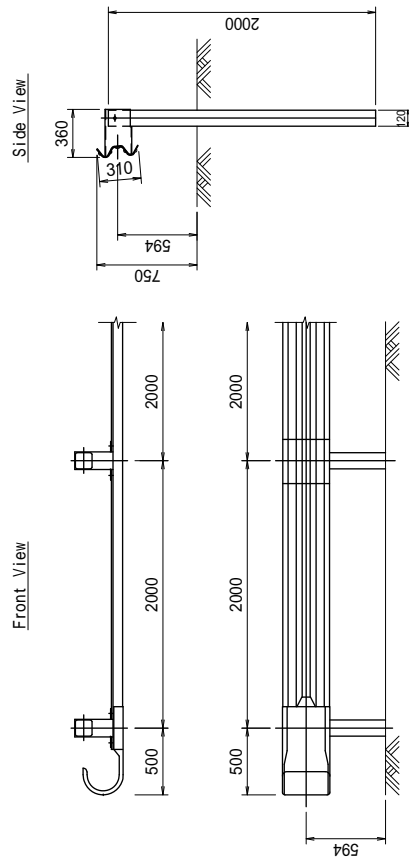
勾配	計画高	地盤高	標点
1:50, 300%	145.013	144.985	+900
1:314, 72%	145.102	144.57	+890.7
	145.133	139.52	+850
	145.234	141.85	K414-2 STA.213 +817
	145.234	141.85	K414-2 STA.213 +817
	145.102	139.52	K415-1
	145.013	144.57	+890.7
	145.013	144.985	+900

# STANDARD DRAWING OF GAURDRAIL

Plan S=1:200



Structural Drawing S=1:40  
(BMSNA2/C-E, BMSNA2/C-B)



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DIRECTION DE L'EQUIPEMENT



JAPAN INTERNATIONAL COOPERATION AGENCY  
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THE PREPARATORY SURVEY FOR  
THE PROJECT FOR  
UPGRADING OF NATIONAL ROAD ROUTE 1  
IN THE REPUBLIC OF DJIBOUTI

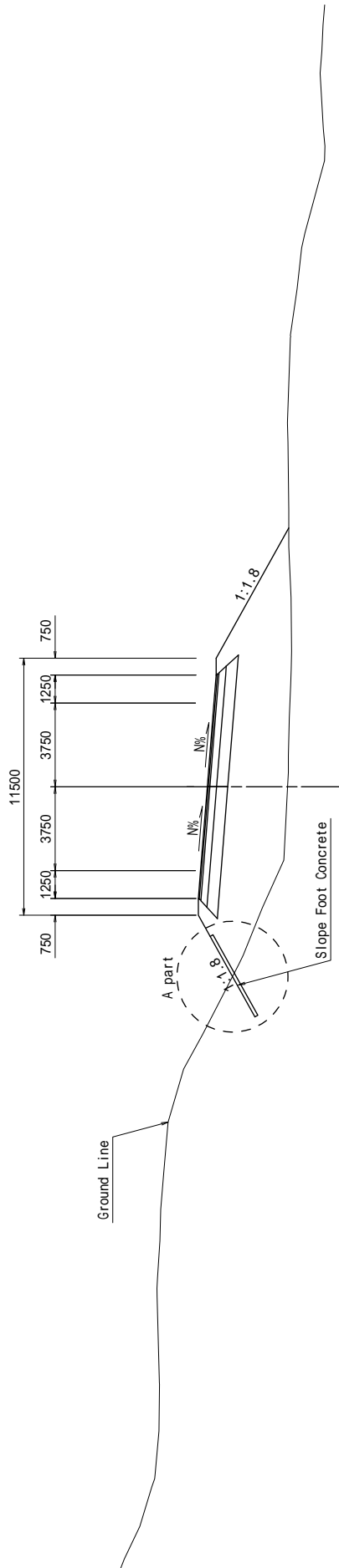
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GAURDRAIL

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PAGE NO.

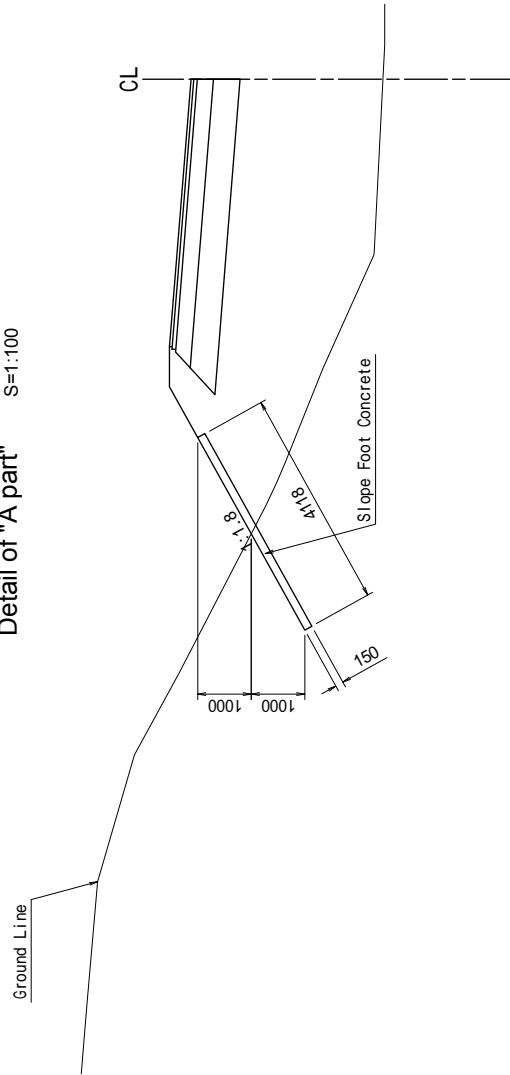
As Shown  
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# STANDARD DRAWING OF FOOT STRUCTURE OF SLOPE

Typical Cross Section S=1:200

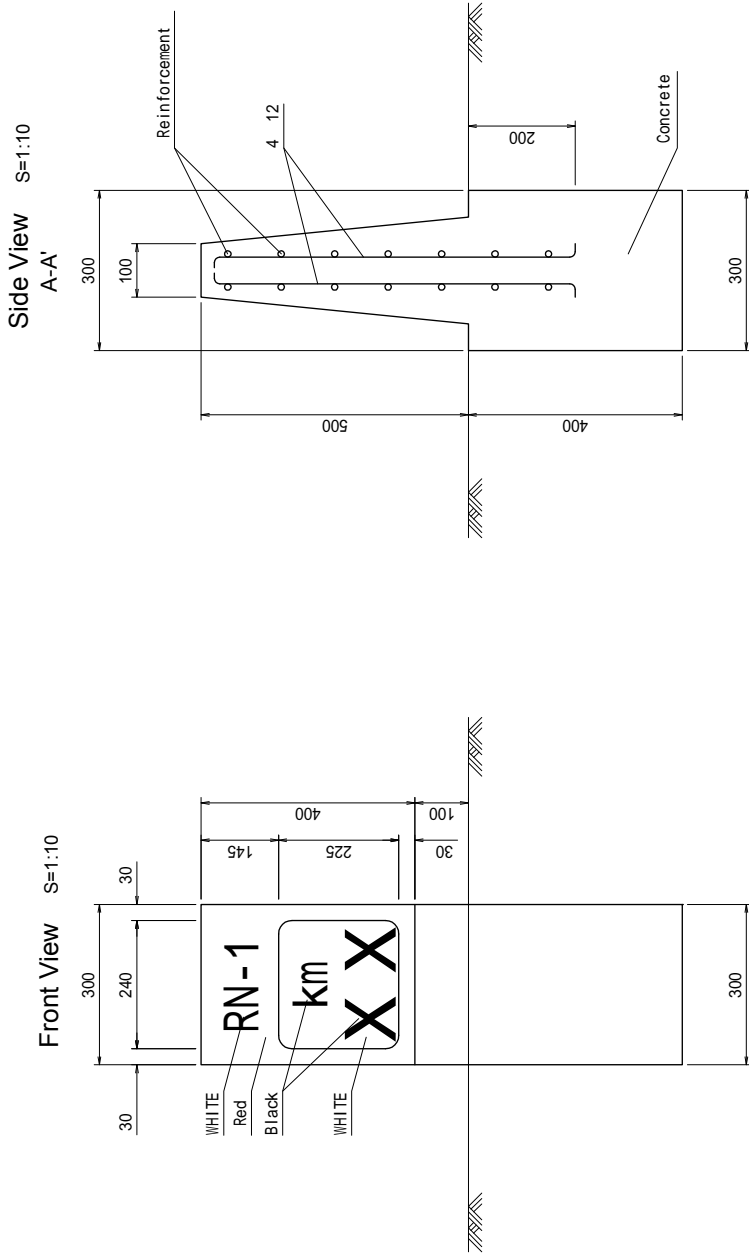


Detail of "A part" S=1:100

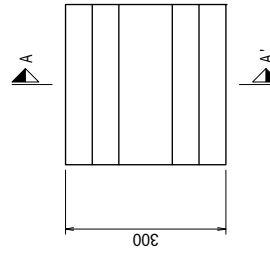


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# STANDARD DRAWING OF PK POST



PLAN S=1:10



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JAPAN INTERNATIONAL COOPERATION AGENCY  
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THE PREPARATORY SURVEY FOR  
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