
  
 CONSTRUCTION PROJECT CONSULTANTS, INC.  
 TOKYO JAPAN

**PLAN DE LA ROUTE  
 EXISTANTE**  
 (. 45 + 330 ~ 53 + 720 )  
 planches:  
 echelles: 1:10,000

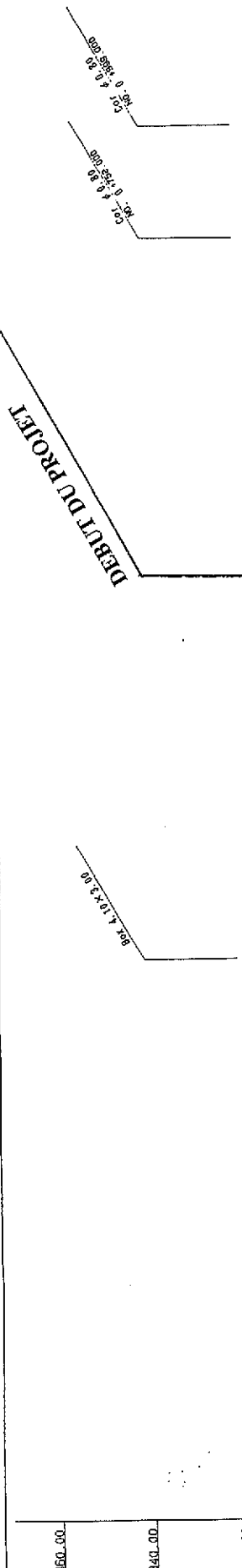
**ETUDE DU CONCEPT DE BASE**  
 DECEMBRE 2002

**PROJET DE BITUMAGE  
 DE LA ROUTE NATIONALE N° 3 (PHASE IV)  
 TRONCON BAORO-BOUAR**

**REPUBLIQUE CENTRAFRICAINE**  
 MINISTERE DE L'EQUIPEMENT, DES TRANSPORTS  
 ET DE L'HABITAT, CHARGE DU DESENVLOPPEMENT

  
 AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

### 4) Profil en long



STATION	HAUTEURS DES REMBLAIS	PROFONDEURS DES DEBLAIS	ORDONNEES DU PROJET	ORDONNEES DU TERRAIN NATUREL	DISTANCES CUMULEES	DISTANCES PARTIELLES	POST KILOMETRIQUE	ALIGNEMENTS ET COURBES	RACCORDEMENT
0+00	0.018	0.014	754.205	754.19	0.000	0.000	0+00	0+00	
10+00	0.639	0.204	787.989	785.48	30.000	75.155	10+00	10+00	
20+00	0.839	0.204	787.989	785.48	60.000	75.155	20+00	10+00	
30+00	0.855	0.126	784.867	783.55	90.000	79.933	30+00	10+00	
40+00	0.928	0.126	783.000	781.93	120.000	89.023	40+00	10+00	
50+00	1.019	0.282	773.828	773.82	150.000	99.000	50+00	10+00	
60+00	1.565	0.282	741.255	742.82	180.000	108.832	60+00	10+00	
70+00	1.983	0.193	730.871	730.89	210.000	118.818	70+00	10+00	
80+00	2.438	0.672	740.202	740.19	240.000	128.804	80+00	10+00	
90+00	2.723	0.638	747.723	749.13	270.000	138.790	90+00	10+00	
100+00	2.938	0.288	770.342	770.63	300.000	148.776	100+00	10+00	
110+00	3.126	0.126	777.534	775.85	330.000	158.762	110+00	10+00	
120+00	3.282	0.126	780.848	781.06	360.000	168.748	120+00	10+00	
130+00	3.419	0.126	783.848	784.867	390.000	178.734	130+00	10+00	
140+00	3.536	0.126	787.534	789.848	420.000	188.720	140+00	10+00	
150+00	3.633	0.126	791.061	793.528	450.000	198.706	150+00	10+00	
160+00	3.711	0.126	794.867	797.213	480.000	208.692	160+00	10+00	
170+00	3.771	0.126	798.126	800.902	510.000	218.678	170+00	10+00	
180+00	3.815	0.126	802.702	804.602	540.000	228.664	180+00	10+00	
190+00	3.844	0.126	807.534	808.313	570.000	238.650	190+00	10+00	
200+00	3.859	0.126	813.419	812.037	600.000	248.636	200+00	10+00	
210+00	3.859	0.126	819.354	815.774	630.000	258.622	210+00	10+00	
220+00	3.844	0.126	826.354	820.524	660.000	268.608	220+00	10+00	
230+00	3.815	0.126	834.419	826.297	690.000	278.594	230+00	10+00	
240+00	3.771	0.126	843.534	833.092	720.000	288.580	240+00	10+00	
250+00	3.711	0.126	853.702	840.907	750.000	298.566	250+00	10+00	
260+00	3.633	0.126	864.934	849.742	780.000	308.552	260+00	10+00	
270+00	3.536	0.126	877.234	859.607	810.000	318.538	270+00	10+00	
280+00	3.419	0.126	890.602	870.502	840.000	328.524	280+00	10+00	
290+00	3.282	0.126	905.034	882.427	870.000	338.510	290+00	10+00	
300+00	3.126	0.126	921.489	895.382	900.000	348.496	300+00	10+00	
310+00	2.938	0.126	939.534	909.367	930.000	358.482	310+00	10+00	
320+00	2.723	0.126	959.289	924.382	960.000	368.468	320+00	10+00	
330+00	2.438	0.126	980.754	940.427	990.000	378.454	330+00	10+00	
340+00	2.093	0.126	1003.939	957.502	1020.000	388.440	340+00	10+00	
350+00	1.711	0.126	1028.854	975.617	1050.000	398.426	350+00	10+00	
360+00	1.293	0.126	1055.509	994.772	1080.000	408.412	360+00	10+00	
370+00	0.839	0.126	1083.814	1015.967	1110.000	418.398	370+00	10+00	
380+00	0.354	0.126	1113.859	1039.202	1140.000	428.384	380+00	10+00	
390+00	0.039	0.126	1145.554	1064.577	1170.000	438.370	390+00	10+00	
400+00	0.000	0.126	1178.909	1092.092	1200.000	448.356	400+00	10+00	
410+00	0.000	0.126	1213.924	1121.737	1230.000	458.342	410+00	10+00	
420+00	0.000	0.126	1250.609	1153.512	1260.000	468.328	420+00	10+00	
430+00	0.000	0.126	1288.954	1187.417	1290.000	478.314	430+00	10+00	
440+00	0.000	0.126	1328.969	1223.442	1320.000	488.300	440+00	10+00	
450+00	0.000	0.126	1370.644	1261.597	1350.000	498.286	450+00	10+00	
460+00	0.000	0.126	1414.989	1301.882	1380.000	508.272	460+00	10+00	
470+00	0.000	0.126	1461.994	1344.297	1410.000	518.258	470+00	10+00	
480+00	0.000	0.126	1511.629	1388.832	1440.000	528.244	480+00	10+00	
490+00	0.000	0.126	1563.894	1435.487	1470.000	538.230	490+00	10+00	
500+00	0.000	0.126	1618.789	1484.262	1500.000	548.216	500+00	10+00	

CONSTRUCTION PROJECT CONSULTANTS, INC.  
TOKYO JAPAN

**PROFIL EN LONG**  
(-2 + 000 ~ 1 + 100)

ETUDE DU CONCEPT DE BASE  
DECEMBRE 2002

**PROJET DE BITUMAGE  
DE LA ROUTE NATIONALE N° 3 (PHASE IV)  
TRONÇON BAOIRO-BOUAR**

**REPUBLIQUE CENTRAFRICAINE**  
MINISTERE DE L'EQUIPEMENT, DES TRANSPORTS  
ET DE L'HABITAT, CHARGE DU DESENCLAVEMENT

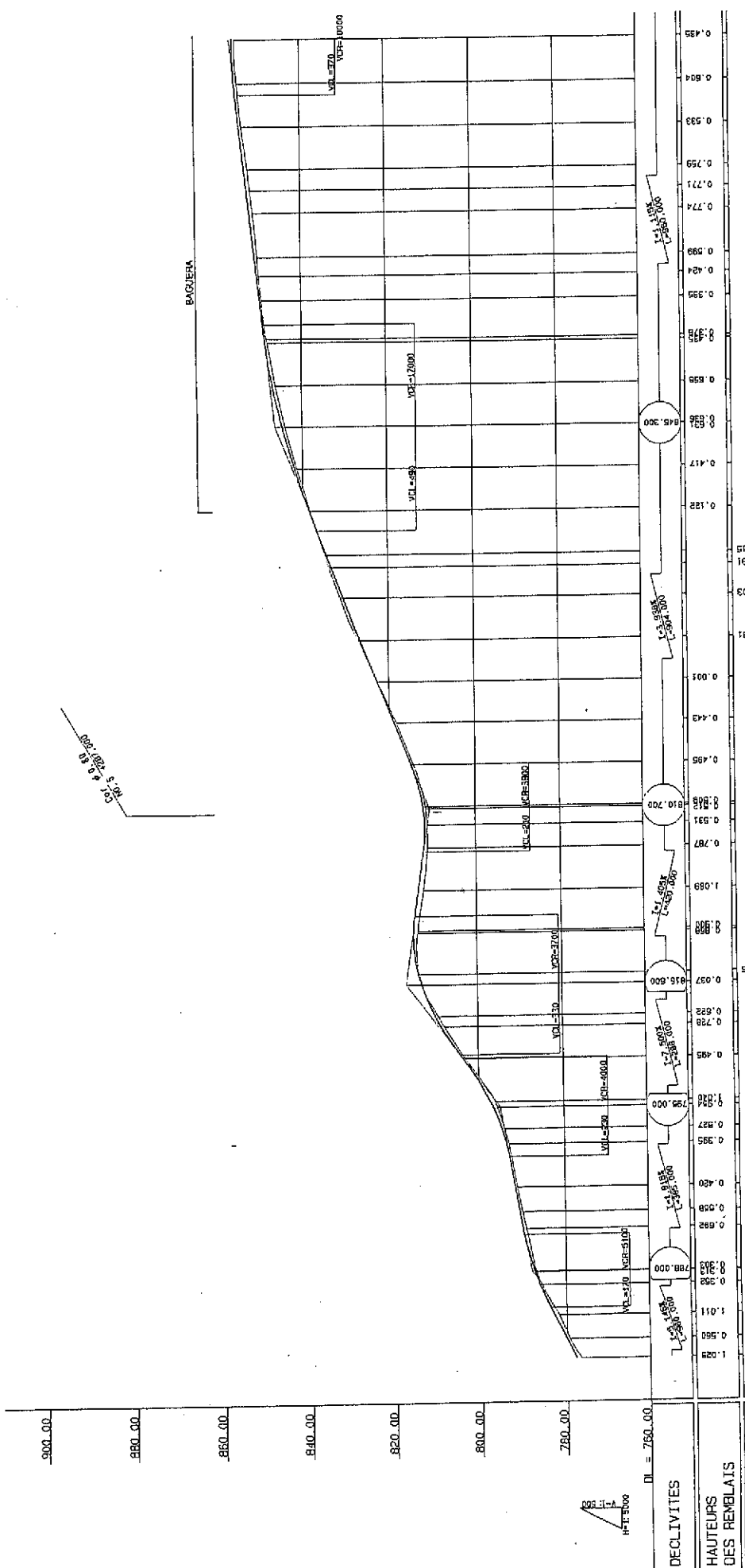
**JICA**  
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

planche: 1/10, 200  
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POST KILOMETRIQUE	ALIGNEMENTS ET COURBES	RACCORDEMENT	ORDONNEES DU TERRAIN NATUREL	DISTANCES PARTIELLES	DISTANCES CUMULEES	ORDONNEES DU PROJET	DES DEBLAIS	PROFONDEURS DES REMBLAIS	HAUTEURS DES REMBLAIS	DECLIVITES
0+000			776.56	4.4776	4.4776	776.56	1.029	0.560	0.560	1.029
0+100			782.751	56.224	60.7016	782.751	0.332	0.332	0.332	0.332
0+200			798.092	70.321	131.0276	798.092	0.332	0.332	0.332	0.332
0+300			798.092	29.321	160.3488	798.092	0.332	0.332	0.332	0.332
0+400			791.518	40.457	200.8063	791.518	0.682	0.682	0.682	0.682
0+500			793.515	59.503	260.3098	793.515	0.420	0.420	0.420	0.420
0+600			794.607	79.627	339.9375	794.607	0.395	0.395	0.395	0.395
0+700			802.475	76.628	416.5653	802.475	0.485	0.485	0.485	0.485
0+800			809.882	24.330	440.8953	809.882	0.728	0.728	0.728	0.728
0+900			812.827	75.000	515.8953	812.827	0.628	0.628	0.628	0.628
1+000			813.504	79.000	594.8953	813.504	0.037	0.037	0.037	0.037
1+100			814.836	95.288	690.1841	814.836	0.808	0.808	0.808	0.808
1+200			818.182	109.698	799.8829	818.182	0.812	0.812	0.812	0.812
1+300			822.713	100.000	899.8829	822.713	0.005	0.005	0.005	0.005
1+400			827.14	100.000	999.8829	827.14	0.491	0.491	0.491	0.491
1+500			834.373	70.895	1070.7778	834.373	0.591	0.591	0.591	0.591
1+600			839.402	29.105	1100.8829	839.402	0.419	0.419	0.419	0.419
1+700			841.37	100.000	1200.8829	841.37	0.803	0.803	0.803	0.803
1+800			846.828	100.000	1300.8829	846.828	0.803	0.803	0.803	0.803
1+900			848.828	89.529	1390.4129	848.828	0.419	0.419	0.419	0.419
2+000			851.11	91.529	1481.9419	851.11	0.803	0.803	0.803	0.803
2+100			854.113	48.241	1530.1829	854.113	0.759	0.759	0.759	0.759
2+200			854.113	51.759	1581.9419	854.113	0.771	0.771	0.771	0.771
2+300			852.461	100.000	1681.9419	852.461	0.424	0.424	0.424	0.424
2+400			852.461	49.570	1731.5119	852.461	0.939	0.939	0.939	0.939
2+500			849.36	56.430	1787.9419	849.36	0.924	0.924	0.924	0.924
2+600			846.828	91.529	1879.4709	846.828	0.399	0.399	0.399	0.399
2+700			846.828	108.236	1987.7069	846.828	0.424	0.424	0.424	0.424
2+800			854.113	48.241	2035.9469	854.113	0.939	0.939	0.939	0.939
2+900			854.113	100.000	2135.9469	854.113	0.759	0.759	0.759	0.759
3+000			859.194	100.000	2235.9469	859.194	0.804	0.804	0.804	0.804







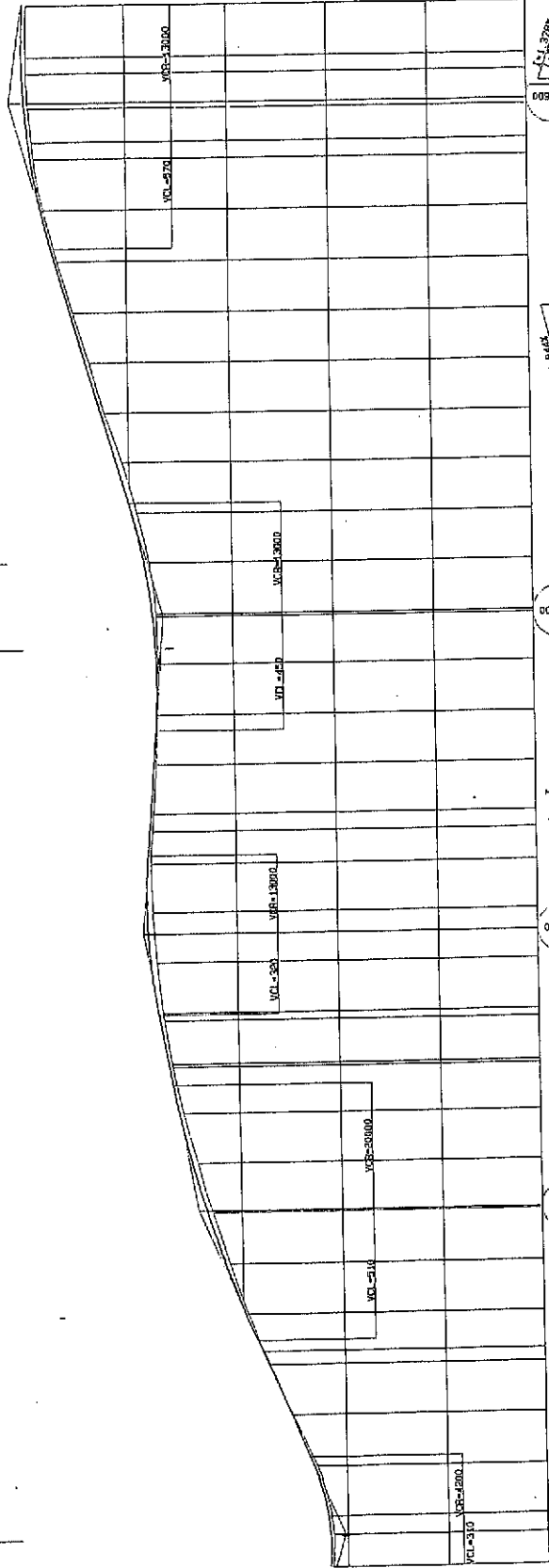


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- 1000.00
- 980.00
- 960.00
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- 900.00
- 880.00
- 860.00
- 840.00
- 820.00
- 800.00

KOURSOU



DI = 860.00

DECLIVITES	HAUTEURS DES REMBLAIS	PROFONDEURS DES DEBLAIS	ORDONNEES DU PROJET	ORDONNEES DU TERRAIN NATUREL	DISTANCES CUMULEES	DISTANCES PARTIELLES	POST KILOMETRIQUE
0.437	0.838	0.838	903.500	903.500	903.74	903.378	NO. 16
0.511	0.511	0.511	850.500	850.500	903.17	803.781	+100
0.561	0.222	0.561	740.000	740.000	910.51	910.832	+300
0.801	0.203	0.801	500.000	500.000	916.13	916.333	+400
0.413	0.841	0.413	430.000	430.000	919.07	919.493	+500
0.106	0.926	0.106	300.000	300.000	922.49	923.331	+600
0.782	0.926	0.782	200.000	200.000	928.48	928.828	+700
0.448	0.437	0.448	100.000	100.000	931.09	931.872	+800
0.307	0.170	0.307	934.200	934.200	934.77	935.077	+900
0.937	0.937	0.937	934.400	934.400	935.17	935.507	+1000
0.349	0.349	0.349	935.000	935.000	935.52	935.859	+1100
1.034	1.034	1.034	939.500	939.500	935.94	939.874	+1200
0.649	0.649	0.649	944.600	944.600	941.38	942.404	+1300
0.593	0.593	0.593	947.44	947.44	948.092		+1400
0.432	0.432	0.432	950.47	950.47	948.938		+1500
0.448	0.448	0.448	955.97	955.97	956.418		+1600
0.581	0.581	0.581	957.75	957.75	959.337		+1700
0.577	0.577	0.577	958.12	958.12	959.803		+1800
0.877	0.877	0.877	959.84	959.84	960.841		+1900
0.774	0.774	0.774	958.12	958.12	959.894		+2000
0.841	0.841	0.841	958.11	958.11	959.951		+2100
0.282	0.282	0.282	956.92	956.92	959.647		+2200

ALIGNEMENTS ET COURBES	RACCORDEMENT
NO. 16	
+100	
+300	
+400	
+500	
+600	
+700	
+800	
+900	
+1000	
+1100	
+1200	
+1300	
+1400	
+1500	
+1600	
+1700	
+1800	
+1900	
+2000	

**JICA**

AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

**REPUBLIQUE CENTRAFRICAINE**  
MINISTRE DE L'EQUIPEMENT, DES TRANSPORTS  
ET DE L'HABITAT, CHARGE DU DESENCLEMENT

**PROJET DE BITUMAGE  
DE LA ROUTE NATIONALE N° 3 (PHASE IV)**  
TRONÇON BAORO-BOUAR

**ETUDE DU CONCEPT DE BASE**  
DECEMBRE 2002

**PROFIL EN LONG**  
( 16 + 0.00 ~ 19 + 1.00 )  
echelles: H=1:1,000  
L=1:10,000

CONSTRUCTION PROJECT CONSULTANTS, INC.  
TOKYO JAPAN



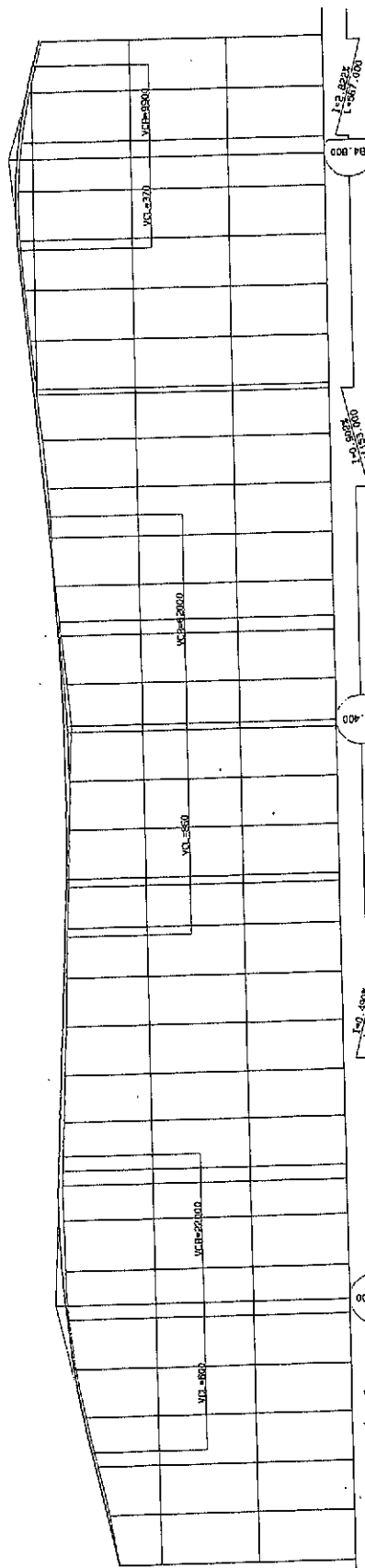




1060.00  
1040.00  
1020.00  
1000.00  
980.00  
960.00  
940.00

BLOK

GRANDVANGUE



DECLIVITES	0.150	0.292	0.455	0.454	0.524	0.301	0.990	0.619	0.711	0.764	0.783	0.693	0.603	0.493	0.448	0.462	0.584	0.697	0.583	0.259	0.114	0.266	0.583	0.605	0.609	0.439	0.391	0.435	0.482	0.488	0.543	0.508	0.387	
HAUTEURS DES REMBLAIS	960.290	970.752	972.955	974.889	977.914	978.161	978.676	978.989	978.944	978.854	978.389	977.893	977.403	976.913	975.425	975.024	975.824	975.757	977.508	979.793	978.565	977.154	977.929	979.698	980.939	981.499	982.401	983.482	983.079	982.893	980.888	978.197		
PROFONDEURS DES DEBLAIS																																		
ORDONNEES DU PROJET	970.35	970.752	972.955	974.889	977.914	978.161	978.676	978.989	978.944	978.854	978.389	977.893	977.403	976.913	975.425	975.024	975.824	975.757	977.508	979.793	978.565	977.154	977.929	979.698	980.939	981.499	982.401	983.482	983.079	982.893	980.888	978.197		
ORDONNEES DU TERRAIN NATUREL	970.000	970.000	972.000	974.000	977.000	977.500	978.000	978.500	978.500	978.500	978.000	977.500	977.000	976.500	975.000	975.000	975.500	975.500	977.000	979.000	978.000	977.000	977.500	979.000	980.500	981.000	982.000	983.000	983.000	982.500	980.500	978.000		
DISTANCES CUMULEES	0.000	100.000	200.000	300.000	400.000	500.000	600.000	700.000	800.000	900.000	1000.000	1100.000	1200.000	1300.000	1400.000	1500.000	1600.000	1700.000	1800.000	1900.000	2000.000	2100.000	2200.000	2300.000	2400.000	2500.000	2600.000	2700.000	2800.000	2900.000	3000.000	3100.000		
DISTANCES PARTICULIERS																																		
POST KILOMETRIQUE	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28	NO. 28		
ALIGNEMENTS ET COURBES																																		
RACCORDEMENT																																		

AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

REPUBLIQUE CENTRAFRICAINE  
MINISTERE DE L'EQUIPEMENT, DES TRANSPORTS  
ET DE L'HABITAT, CHARGE DU DESENCLEMENT

PROJET DE BITUMAGE  
DE LA ROUTE NATIONALE NO 3 (PHASE IV)  
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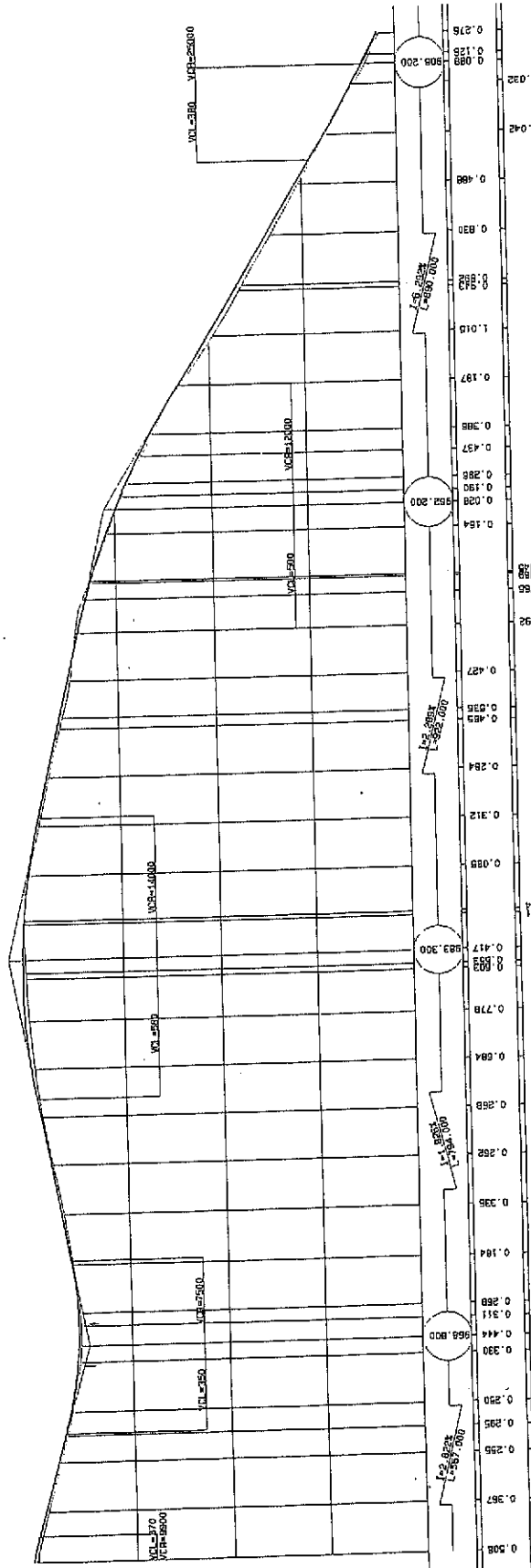
ETUDE DU CONCEPT DE BASE  
DECEMBRE 2002

PROFIL EN LONG  
( 25 + 0.00 ~ 28 + 1.00 )  
planche.

CONSTRUCTION PROJECT CONSULTANTS, INC.  
TOKYO JAPAN

1040.00  
1020.00  
1000.00  
980.00  
960.00  
940.00  
920.00

BILOK



DECLIVITES	0.508	0.367	0.255	0.250	0.330	0.444	0.288	0.184	0.335	0.262	0.288	0.084	0.778	0.053	0.427	0.592	0.756	0.154	0.028	0.285	0.437	0.308	0.197	1.018	0.000	0.000	0.830	0.488	0.042	0.032	
HAUTEURS DES REMBLAIS	980.888	978.197	975.375	972.870	971.070	970.834	970.741	970.798	973.676	975.502	977.328	979.014	979.25	978.323	972.475	971.955	970.187	958.184	959.698	959.698	954.707	952.306	945.487	940.115	940.115	927.530	921.230	914.938	909.508	903.918	
PROFONDEURS DES DEBLAIS	980.888	978.197	975.375	972.870	971.070	970.834	970.741	970.798	973.676	975.502	977.328	979.014	979.25	978.323	972.475	971.955	970.187	958.184	959.698	959.698	954.707	952.306	945.487	940.115	940.115	927.530	921.230	914.938	909.508	903.918	
ORDONNEES DU PROJET	980.888	978.197	975.375	972.870	971.070	970.834	970.741	970.798	973.676	975.502	977.328	979.014	979.25	978.323	972.475	971.955	970.187	958.184	959.698	959.698	954.707	952.306	945.487	940.115	940.115	927.530	921.230	914.938	909.508	903.918	
ORDONNEES DU TERRAIN NATUREL	980.888	978.197	975.375	972.870	971.070	970.834	970.741	970.798	973.676	975.502	977.328	979.014	979.25	978.323	972.475	971.955	970.187	958.184	959.698	959.698	954.707	952.306	945.487	940.115	940.115	927.530	921.230	914.938	909.508	903.918	
DISTANCES CUMULEES	0.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
DISTANCES PARTIELLES	0.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
POST KILOMETRIQUE	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23
ALIGNEMENTS ET COURBES	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23
RACCORDEMENT	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23	NO. 23

AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

REPUBLIQUE CENTRAFRICAINE  
MINISTRE DE L'EQUIPEMENT, DES TRANSPORTS  
ET DE L'HABITAT, CHARGE DU DESENVLOPPEMENT

PROJET DE BITUMAGE  
DE LA ROUTE NATIONALE N° 3 (PHASE IV)  
TRONCON BAORO-SOUAR

ETUDE DU CONCEPT DE BASE  
DECEMBRE 2002

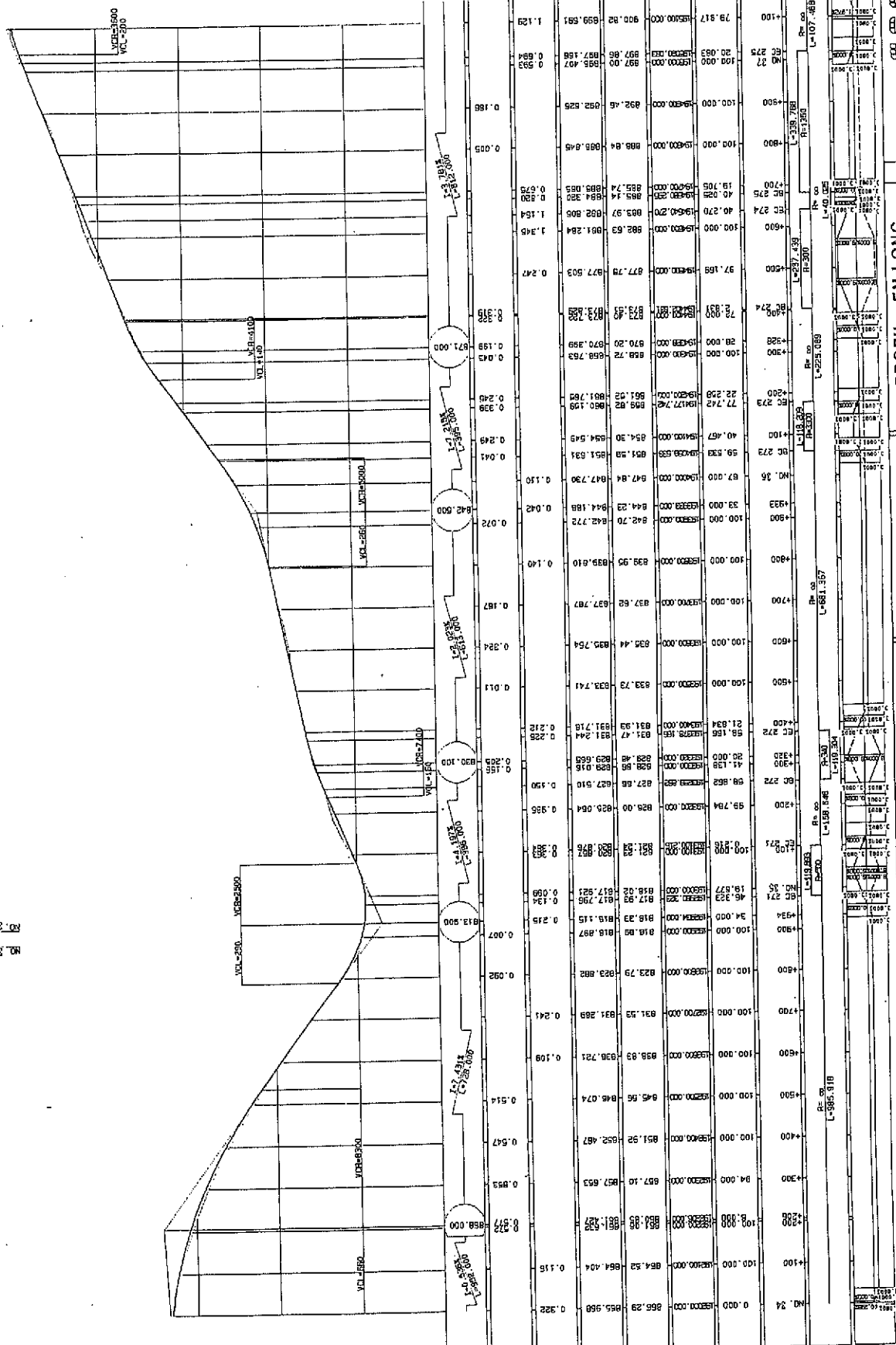
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échelle: H=1:1000  
V=1:1000  
planche.

CONSTRUCTION PROJECT CONSULTANTS, INC.  
TOKYO JAPAN



940.00	
920.00	
900.00	
880.00	
860.00	
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780.00	
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NO. 34 1899.000  
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DECLIVITES	0.322	0.156	0.109	0.241	0.092	0.007	0.059	0.544	0.514	0.072	0.042	0.147	0.041	0.246	0.328	0.043	0.319	0.247	1.345	0.073	0.005	0.168	1.129
HAUTEURS DES REMBLAIS	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000
PROFONDEURS DES DEBLAIS	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000
ORDONNEES DU PROJET	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000
ORDONNEES DU TERRAIN NATUREL	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000	858.000
DISTANCES CUMULEES	0.000	100.000	200.000	300.000	400.000	500.000	600.000	700.000	800.000	900.000	1000.000	1100.000	1200.000	1300.000	1400.000	1500.000	1600.000	1700.000	1800.000	1900.000	2000.000	2100.000	2200.000
DISTANCES PARTIELLES	0.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
POST KILOMETRIQUE	0.000	100.000	200.000	300.000	400.000	500.000	600.000	700.000	800.000	900.000	1000.000	1100.000	1200.000	1300.000	1400.000	1500.000	1600.000	1700.000	1800.000	1900.000	2000.000	2100.000	2200.000
ALIGNEMENTS ET COURBES																							
RACCORDEMENT																							

**PROFIL EN LONG**  
 ( 34 + 0.00 ~ 37 + 1.00 )  
 planche  
 échelles: H=1:10,000

**ETUDE DU CONCEPT DE BASE**  
 DECEMBRE 2002

**PROJET DE BITUMAGE**  
**DE LA ROUTE NATIONALE N° 3 (PHASE IV)**  
 TRONCON BAORO-BOUAR

**REPUBLIQUE CENTRAFRICAINE**  
 MINISTERE DE L'EQUIPEMENT, DES TRANSPORTS  
 ET DE L'HABITAT, CHARGE DU DESENCLAVEMENT

**JICA**  
 AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

**CONSTRUCTION PROJECT CONSULTANTS, INC.**  
 TOKYO JAPAN



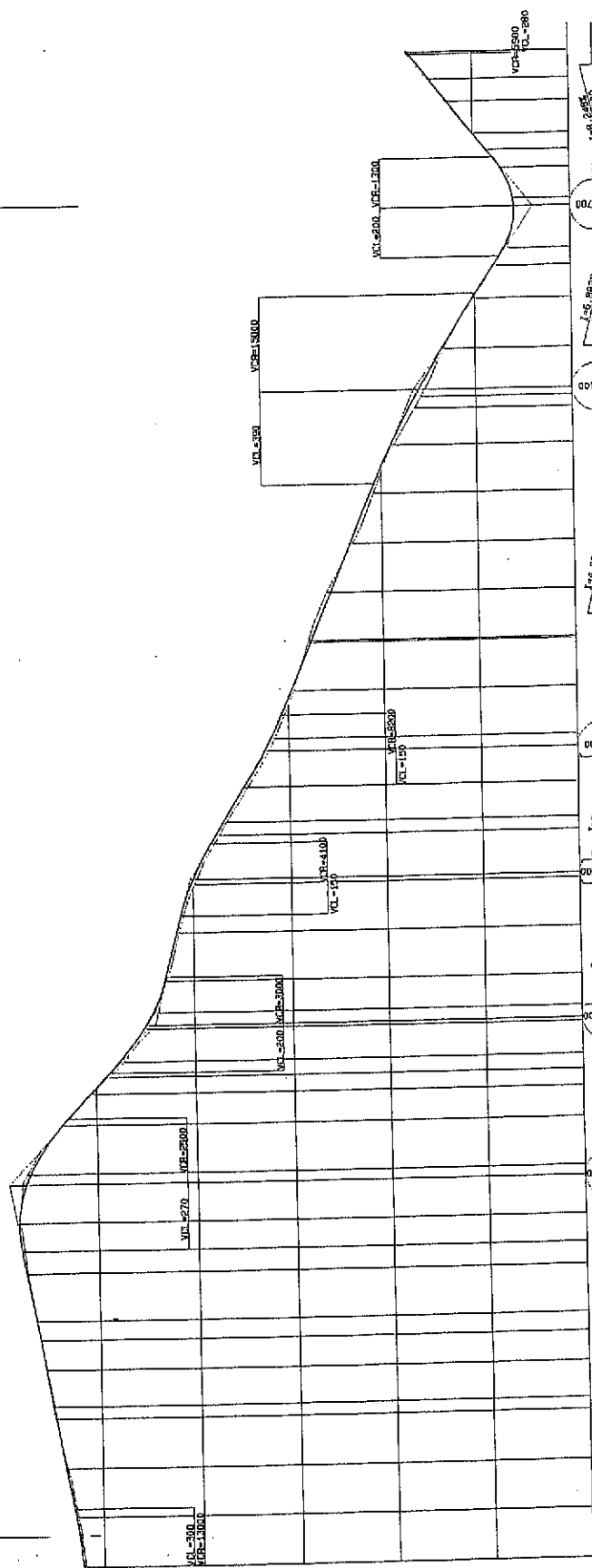






0.00 0.00 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.00 24.00 25.00 26.00 27.00 28.00 29.00 30.00 31.00 32.00 33.00 34.00 35.00 36.00 37.00 38.00 39.00 40.00 41.00 42.00 43.00 44.00 45.00 46.00 47.00 48.00 49.00 50.00 51.00 52.00 53.00 54.00 55.00 56.00 57.00 58.00 59.00 60.00 61.00 62.00 63.00 64.00 65.00 66.00 67.00 68.00 69.00 70.00 71.00 72.00 73.00 74.00 75.00 76.00 77.00 78.00 79.00 80.00 81.00 82.00 83.00 84.00 85.00 86.00 87.00 88.00 89.00 90.00 91.00 92.00 93.00 94.00 95.00 96.00 97.00 98.00 99.00 100.00

10560.00  
10440.00  
10220.00  
10000.00  
9800.00  
9600.00  
9400.00



STATION	HAUTEURS DES REMBLAIS	PROFONDEURS DES DEBLAIS	ORDONNEES DU PROJET	ORDONNEES DU TERRAIN NATUREL	DISTANCES CUMULEES	DISTANCES PARTIELLES	POST KILOMETRIQUE
0+00	0.24	0.34	0.24	1024.02	33.000	33.000	0.48
100	0.25	0.34	0.25	1025.39	100.000	100.000	0.48
200	0.21	0.31	0.21	1027.17	200.000	200.000	0.48
300	0.43	0.57	0.43	1029.43	300.000	300.000	0.48
400	0.27	0.37	0.27	1031.12	400.000	400.000	0.48
500	0.17	0.27	0.17	1032.80	500.000	500.000	0.48
600	0.47	0.57	0.47	1034.58	600.000	600.000	0.48
700	0.16	0.26	0.16	1035.56	700.000	700.000	0.48
800	0.95	1.05	0.95	1034.14	800.000	800.000	0.48
900	0.84	0.94	0.84	1033.28	900.000	900.000	0.48
1000	0.39	0.49	0.39	1028.80	1000.000	1000.000	0.48
1100	0.10	0.20	0.10	1021.11	1100.000	1100.000	0.48
1200	0.42	0.52	0.42	1017.70	1200.000	1200.000	0.48
1300	0.50	0.60	0.50	1015.00	1300.000	1300.000	0.48
1400	0.38	0.48	0.38	1008.24	1400.000	1400.000	0.48
1500	0.17	0.27	0.17	1005.74	1500.000	1500.000	0.48
1600	0.16	0.26	0.16	1003.28	1600.000	1600.000	0.48
1700	0.23	0.33	0.23	1003.05	1700.000	1700.000	0.48
1800	0.82	0.92	0.82	999.28	1800.000	1800.000	0.48
1900	0.82	0.92	0.82	999.28	1900.000	1900.000	0.48
2000	0.82	0.92	0.82	999.28	2000.000	2000.000	0.48
2100	0.82	0.92	0.82	999.28	2100.000	2100.000	0.48
2200	0.82	0.92	0.82	999.28	2200.000	2200.000	0.48
2300	0.82	0.92	0.82	999.28	2300.000	2300.000	0.48
2400	0.82	0.92	0.82	999.28	2400.000	2400.000	0.48
2500	0.82	0.92	0.82	999.28	2500.000	2500.000	0.48
2600	0.82	0.92	0.82	999.28	2600.000	2600.000	0.48
2700	0.82	0.92	0.82	999.28	2700.000	2700.000	0.48
2800	0.82	0.92	0.82	999.28	2800.000	2800.000	0.48
2900	0.82	0.92	0.82	999.28	2900.000	2900.000	0.48
3000	0.82	0.92	0.82	999.28	3000.000	3000.000	0.48
3100	0.82	0.92	0.82	999.28	3100.000	3100.000	0.48
3200	0.82	0.92	0.82	999.28	3200.000	3200.000	0.48
3300	0.82	0.92	0.82	999.28	3300.000	3300.000	0.48
3400	0.82	0.92	0.82	999.28	3400.000	3400.000	0.48
3500	0.82	0.92	0.82	999.28	3500.000	3500.000	0.48
3600	0.82	0.92	0.82	999.28	3600.000	3600.000	0.48
3700	0.82	0.92	0.82	999.28	3700.000	3700.000	0.48
3800	0.82	0.92	0.82	999.28	3800.000	3800.000	0.48
3900	0.82	0.92	0.82	999.28	3900.000	3900.000	0.48
4000	0.82	0.92	0.82	999.28	4000.000	4000.000	0.48
4100	0.82	0.92	0.82	999.28	4100.000	4100.000	0.48
4200	0.82	0.92	0.82	999.28	4200.000	4200.000	0.48
4300	0.82	0.92	0.82	999.28	4300.000	4300.000	0.48
4400	0.82	0.92	0.82	999.28	4400.000	4400.000	0.48
4500	0.82	0.92	0.82	999.28	4500.000	4500.000	0.48
4600	0.82	0.92	0.82	999.28	4600.000	4600.000	0.48
4700	0.82	0.92	0.82	999.28	4700.000	4700.000	0.48
4800	0.82	0.92	0.82	999.28	4800.000	4800.000	0.48
4900	0.82	0.92	0.82	999.28	4900.000	4900.000	0.48
5000	0.82	0.92	0.82	999.28	5000.000	5000.000	0.48

**REPUBLICQUE CENTRAFRICAINE**  
MINISTERE DE L'EQUIPEMENT, DES TRANSPORTS  
ET DE L'HABITAT, CHARGE DU DESENCLEMENT

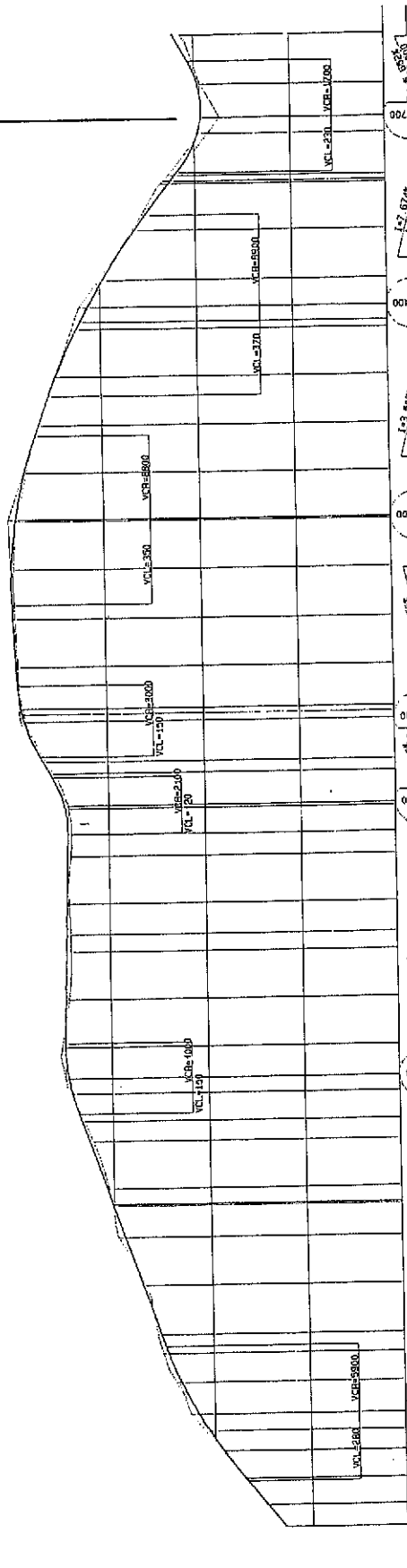
**PROJET DE BITUMAGE  
DE LA ROUTE NATIONALE NO 3 (PHASE IV)**  
TRONÇON BAOKRO-BOLUAR

**CONSTRUCTION PROJECT CONSULTANTS, INC.**  
TOKYO JAPAN

**ETUDE DU CONCEPT DE BASE**  
DECEMBRE 2002

**PROFIL EN LONG**  
( 46 + 0.00 ~ 49 + 10.00 )  
échelle: H=1:1,000  
V=1:10,000

FIN DU PROJET  
 800.00 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50 17.00 17.50 18.00 18.50 19.00 19.50 20.00 20.50 21.00 21.50 22.00 22.50 23.00 23.50 24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.50 28.00 28.50 29.00 29.50 30.00 30.50 31.00 31.50 32.00 32.50 33.00 33.50 34.00 34.50 35.00 35.50 36.00 36.50 37.00 37.50 38.00 38.50 39.00 39.50 40.00 40.50 41.00 41.50 42.00 42.50 43.00 43.50 44.00 44.50 45.00 45.50 46.00 46.50 47.00 47.50 48.00 48.50 49.00 49.50 50.00 50.50 51.00 51.50 52.00 52.50 53.00 53.50 54.00 54.50 55.00 55.50 56.00 56.50 57.00 57.50 58.00 58.50 59.00 59.50 60.00 60.50 61.00 61.50 62.00 62.50 63.00 63.50 64.00 64.50 65.00 65.50 66.00 66.50 67.00 67.50 68.00 68.50 69.00 69.50 70.00 70.50 71.00 71.50 72.00 72.50 73.00 73.50 74.00 74.50 75.00 75.50 76.00 76.50 77.00 77.50 78.00 78.50 79.00 79.50 80.00 80.50 81.00 81.50 82.00 82.50 83.00 83.50 84.00 84.50 85.00 85.50 86.00 86.50 87.00 87.50 88.00 88.50 89.00 89.50 90.00 90.50 91.00 91.50 92.00 92.50 93.00 93.50 94.00 94.50 95.00 95.50 96.00 96.50 97.00 97.50 98.00 98.50 99.00 99.50 100.00



DECLIVITES	HAUTEURS DES REMBLAIS	PROFONDEURS DES DEBLAIS	ORDONNEES DU PROJET	ORDONNEES DU TERRAIN NATUREL	DISTANCES CUMULEES	DISTANCES PARTIELLES	POST KILOMETRIQUE	ALIGNEMENTS ET COURBES	RACCORDEMENT
0.474	945.518	949.236	945.518	945.518	0.000	0.000	NO 49		
0.494	945.518	949.236	945.518	945.518	0.000	0.000	NO 50		
0.237	949.236	953.783	949.236	949.236	0.000	0.000	NO 51		
0.276	953.783	958.194	953.783	953.783	0.000	0.000	NO 52		
0.334	958.194	963.252	958.194	958.194	0.000	0.000	NO 53		
0.469	963.252	968.056	963.252	963.252	0.000	0.000	NO 54		
1.103	968.056	973.727	968.056	968.056	0.000	0.000	NO 55		
0.801	973.727	979.279	973.727	973.727	0.000	0.000	NO 56		
0.428	979.279	984.816	979.279	979.279	0.000	0.000	NO 57		
0.288	984.816	990.335	984.816	984.816	0.000	0.000	NO 58		
0.214	990.335	995.841	990.335	990.335	0.000	0.000	NO 59		
0.458	995.841	1001.329	995.841	995.841	0.000	0.000	NO 60		
0.458	1001.329	1006.798	1001.329	1001.329	0.000	0.000	NO 61		
0.802	1006.798	1012.244	1006.798	1006.798	0.000	0.000	NO 62		
0.572	1012.244	1017.668	1012.244	1012.244	0.000	0.000	NO 63		
0.585	1017.668	1023.071	1017.668	1017.668	0.000	0.000	NO 64		
0.749	1023.071	1028.452	1023.071	1023.071	0.000	0.000	NO 65		
0.339	1028.452	1033.801	1028.452	1028.452	0.000	0.000	NO 66		
0.532	1033.801	1039.117	1033.801	1033.801	0.000	0.000	NO 67		
0.630	1039.117	1044.400	1039.117	1039.117	0.000	0.000	NO 68		
0.630	1044.400	1049.650	1044.400	1044.400	0.000	0.000	NO 69		
0.630	1049.650	1054.875	1049.650	1049.650	0.000	0.000	NO 70		
0.630	1054.875	1060.075	1054.875	1054.875	0.000	0.000	NO 71		
0.630	1060.075	1065.250	1060.075	1060.075	0.000	0.000	NO 72		
0.630	1065.250	1070.399	1065.250	1065.250	0.000	0.000	NO 73		
0.630	1070.399	1075.522	1070.399	1070.399	0.000	0.000	NO 74		
0.630	1075.522	1080.619	1075.522	1075.522	0.000	0.000	NO 75		
0.630	1080.619	1085.690	1080.619	1080.619	0.000	0.000	NO 76		
0.630	1085.690	1090.735	1085.690	1085.690	0.000	0.000	NO 77		
0.630	1090.735	1095.754	1090.735	1090.735	0.000	0.000	NO 78		
0.630	1095.754	1100.747	1095.754	1095.754	0.000	0.000	NO 79		
0.630	1100.747	1105.714	1100.747	1100.747	0.000	0.000	NO 80		
0.630	1105.714	1110.655	1105.714	1105.714	0.000	0.000	NO 81		
0.630	1110.655	1115.570	1110.655	1110.655	0.000	0.000	NO 82		
0.630	1115.570	1120.459	1115.570	1115.570	0.000	0.000	NO 83		
0.630	1120.459	1125.322	1120.459	1120.459	0.000	0.000	NO 84		
0.630	1125.322	1130.159	1125.322	1125.322	0.000	0.000	NO 85		
0.630	1130.159	1134.970	1130.159	1130.159	0.000	0.000	NO 86		
0.630	1134.970	1139.754	1134.970	1134.970	0.000	0.000	NO 87		
0.630	1139.754	1144.511	1139.754	1139.754	0.000	0.000	NO 88		
0.630	1144.511	1149.241	1144.511	1144.511	0.000	0.000	NO 89		
0.630	1149.241	1153.944	1149.241	1149.241	0.000	0.000	NO 90		
0.630	1153.944	1158.619	1153.944	1153.944	0.000	0.000	NO 91		
0.630	1158.619	1163.266	1158.619	1158.619	0.000	0.000	NO 92		
0.630	1163.266	1167.885	1163.266	1163.266	0.000	0.000	NO 93		
0.630	1167.885	1172.476	1167.885	1167.885	0.000	0.000	NO 94		
0.630	1172.476	1177.039	1172.476	1172.476	0.000	0.000	NO 95		
0.630	1177.039	1181.574	1177.039	1177.039	0.000	0.000	NO 96		
0.630	1181.574	1186.081	1181.574	1181.574	0.000	0.000	NO 97		
0.630	1186.081	1190.560	1186.081	1186.081	0.000	0.000	NO 98		
0.630	1190.560	1195.011	1190.560	1190.560	0.000	0.000	NO 99		
0.630	1195.011	1199.434	1195.011	1195.011	0.000	0.000	NO 100		

CONSTRUCTION PROJECT CONSULTANTS, INC.  
 TOKYO JAPAN

**PROFIL EN LONG**  
 ( 49. +0.00 ~ 52 +1.00 )  
 échelle: 1:10,000 planches:

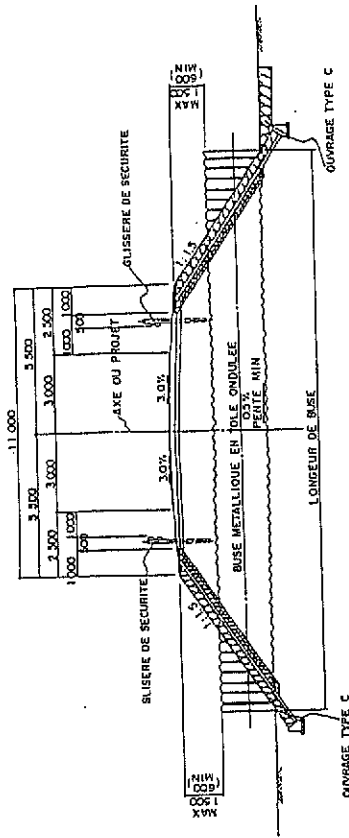
**ETUDE DU CONCEPT DE BASE**  
 DECEMBRE 2002

**PROJET DE BITUMAGE**  
 DE LA ROUTE NATIONALE N° 3 (PHASE IV)  
 TRONÇON BAOKO-BOUAR

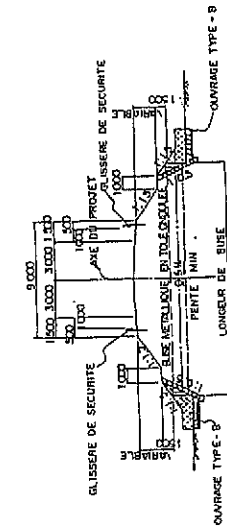
**REPUBLIQUE CENTRAFRICAINE**  
 MINISTERE DE L'EQUIPEMENT, DES TRANSPORTS  
 ET DE L'HABITAT, CHARGE DU DESENVLOPPEMENT

**JICA**  
 AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

# 5) Plan général d'ouvrages de drainage

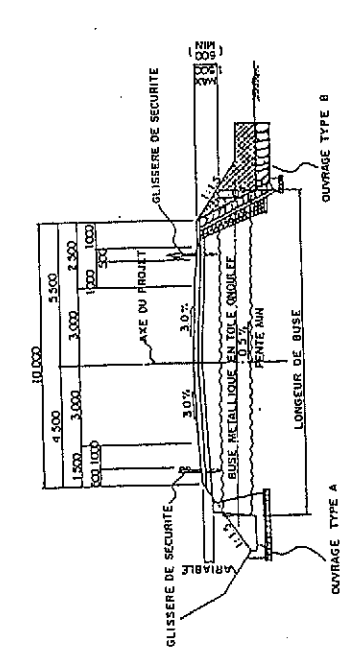


**DRAINAGE TYPE - C** ECHELLE 1:100  
(POUR LES BASSIN DE RETENUE DE LA CRUE I)

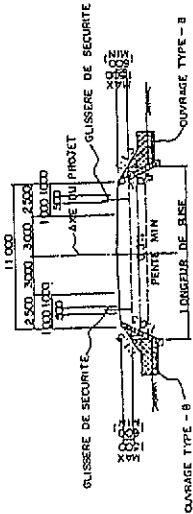


**DRAINAGE TYPE B** ECHELLE 1:200  
(PREVOIR UNE EPAISSEUR DE REMBLAI SUPERIEURE A 1.5m AU - DESSUS DES BUISES)

**DRAINAGE TYPE B** ECHELLE 1:200



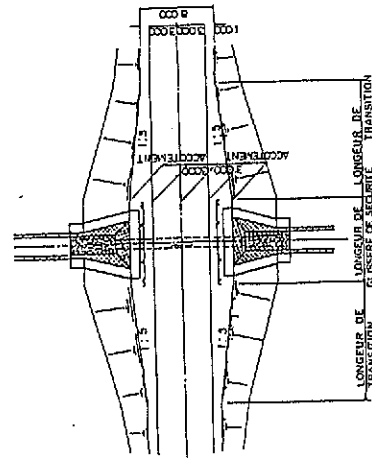
**DRAINAGE TYPE - A, B** ECHELLE 1:100  
(POUR LES PETITS COURS D'EAU ET LES PARTIES EN REMBLAI)



**DRAINAGE TYPE B** ECHELLE 1:200

LONGUEUR DE TRANSITION	LONGUEUR (M)
OUVRAGE TYPE A ACCOTEMENT	2,500
A	1,500
B	2,500
C	2,500
RE ≥ 1.5m	1,500
	2,500

NOTE :  
RE : PREVOIR UNE EPAISSEUR DE REMBLAI SUPERIEURE A 1.5m AU - DESSUS DES BUISES



**DESSIN INDIQUANT LA TRANSITION A MENAGER DANS LES ACCOTEMENT**  
ECHELLE 1:300

AGENCE JAPONAISE DE COOPERATION INTERNATIONALE

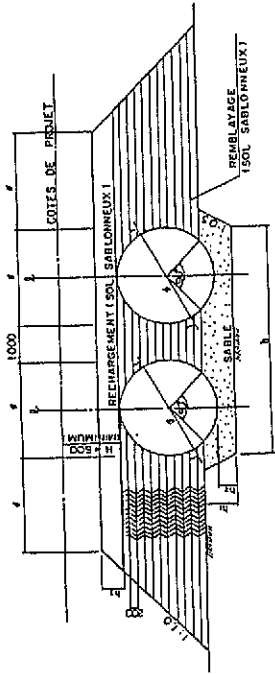
REPUBLIQUE CENTRAFRICAINE  
MINISTERE DE L'EQUIPEMENT, DES TRANSPORTS ET DE L'HABITAT, CHARGE DU DESSIN ET DU ENCLAVEMENT

PROJET DE BITUMAGE  
DE LA ROUTE NATIONALE N° 3 (PHASE IV);  
TRONCON BAORO - BOUAR

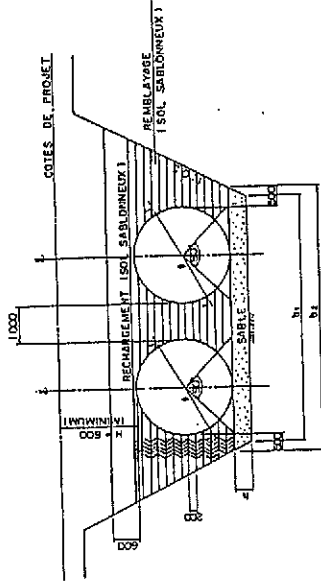
ETUDE DU CONCEPT DE BASE  
DECEMBRE 2002

DESSINS DES OUVRAGES TYPES DE DRAINAGE  
echelles: planche

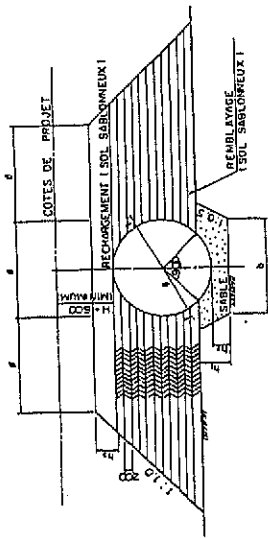
CONSTRUCTION PROJECT CONSULTANTS, INC.  
TOKYO JAPAN



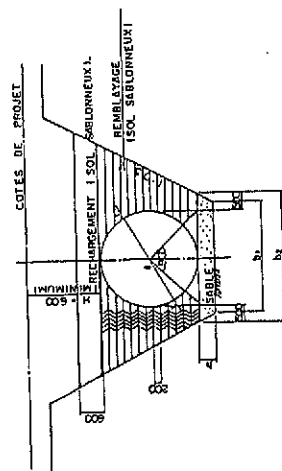
REMBLAI



DEBLAI  
BUSE DOUBLE



REMBLAI



DEBLAI  
BUSE UNIQUE

REMBLAYAGE

TABLEAU DE ÉPAISSEUR DE BUSE METALLIQUE (m/m)

TYPE	COUVERTURE (m)			DIAMETRE (m/m)
	0.6m -1.5m	1.5 -3.0	3.0 -4.5	
SCP 1R	1 000	2.7	2.0	2.0
	1 200	2.7	2.0	2.0
	1 350	2.7	2.0	2.0
I	1 500	2.7	2.7	2.7
	1 750	2.7	2.7	2.7
	2 000	2.7	2.7	2.7
SCP 2R	2 500	2.7	2.7	2.7
	3 000	3.2	3.2	3.2

DIMENSION DE REMBLAYAGE DE BUSE DOUBLE

TYPE	DIAMETRE (m/m)	ÉPAISSEUR (m/m)	REMBLAI TYPE			DEBLAI TYPE			
			b	h <sub>1</sub>	h <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	h	
SCP 1R	1 000	2.0	3 000	450	300	250	3 700	4 000	300
	1 200	2.7	3 400	480	300	250	4 100	4 400	300
	1 350	2.7	3 700	500	300	270	4 400	4 700	300
I	1 500	2.7	4 000	520	300	300	4 700	5 000	300
	1 750	2.7	4 500	610	350	350	5 150	5 500	350
	2 000	3.2	5 000	700	400	400	5 600	6 000	400
SCP 2R	2 500	3.2	6 000	870	500	500	6 500	7 000	500
	3 000		7 000	1 040	600	600	7 400	8 000	600

DIMENSION DE REMBLAYAGE DE BUSE UNIQUE

TYPE	DIAMETRE (m/m)	ÉPAISSEUR (m/m)	REMBLAI TYPE			DEBLAI TYPE			
			b	h <sub>1</sub>	h <sub>2</sub>	b <sub>1</sub>	b <sub>2</sub>	h	
SCP 1R	1 000	2.0	1 000	450	300	250	1 700	2 000	300
	1 200	2.7	1 200	480	300	250	1 900	2 200	300
	1 350	2.7	1 350	500	300	270	2 050	2 350	300
I	1 500	2.7	1 500	520	300	300	2 200	2 500	300
	1 750	2.7	1 750	610	350	350	2 400	2 750	350
	2 000	3.2	2 000	700	400	400	2 600	3 000	400
SCP 2R	2 500	3.2	2 500	870	500	500	3 000	3 500	500
	3 000		3 000	1 040	600	600	3 400	4 000	600

DETAIL DE REMBLAYAGE DES BUSES METALLIQUES

echelles: \_\_\_\_\_  
planches: \_\_\_\_\_

ETUDE DU CONCEPT DE BASE  
DECEMBRE 2012

PROJET DE BITUMAGE  
DE LA ROUTE NATIONALE N° 3 (PHASE IV)  
TRONCON BAORO - BOUAR

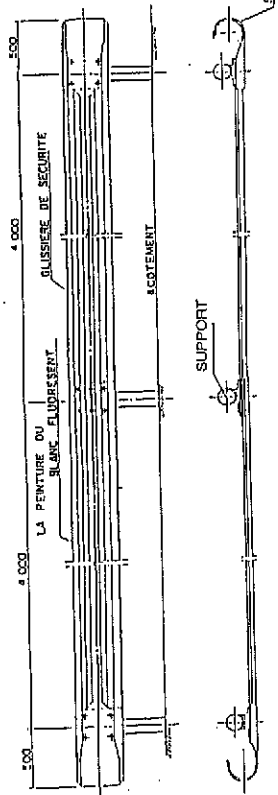
REPUBLIQUE CENTRAFRICAINE  
MINISTRE DE L'EQUIPEMENT, DES TRANSPORTS  
ET DE L'HABITAT, CHARGE DU DESENVLOPPEMENT

AGENCE JAPONAISE DE  
COOPERATION INTERNATIONALE

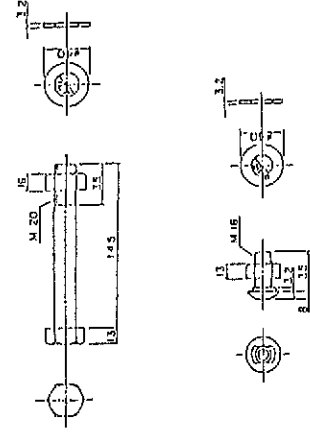


CONSTRUCTION PROJECT CONSULTANTS, INC.  
Tokyo, Japan

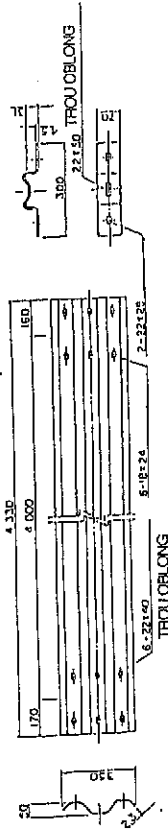
6)Ouvrages auxiliaires



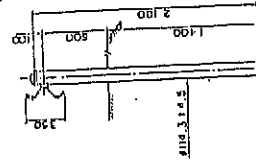
DETAIL DE FIN SECTION



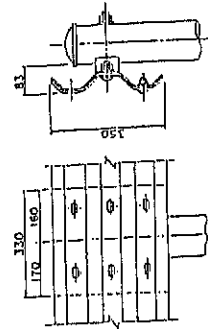
DETAIL DE ECROU ET BOULON



GLISSIERE DE SECURITE



DETAIL DE SUPPORT



DETAIL DE JOINT

AGENCE JAPONAISE DE  
COOPERATION INTERNATIONALE

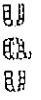
REPUBLIQUE CENTRAFRICAINE  
MINISTERE DE L'EQUIPEMENT DES TRANSPORTS  
ET DE L'HABITAT, CHARGE D'ENSEMBLAGE

PROJET DE BITUMAGE  
DE LA ROUTE NATIONALE N° 3 (PHASE IV)  
TRONCON BAORO - BOUAR

ETUDE DU CONCEPT DE BASE  
DECEMBRE 2012

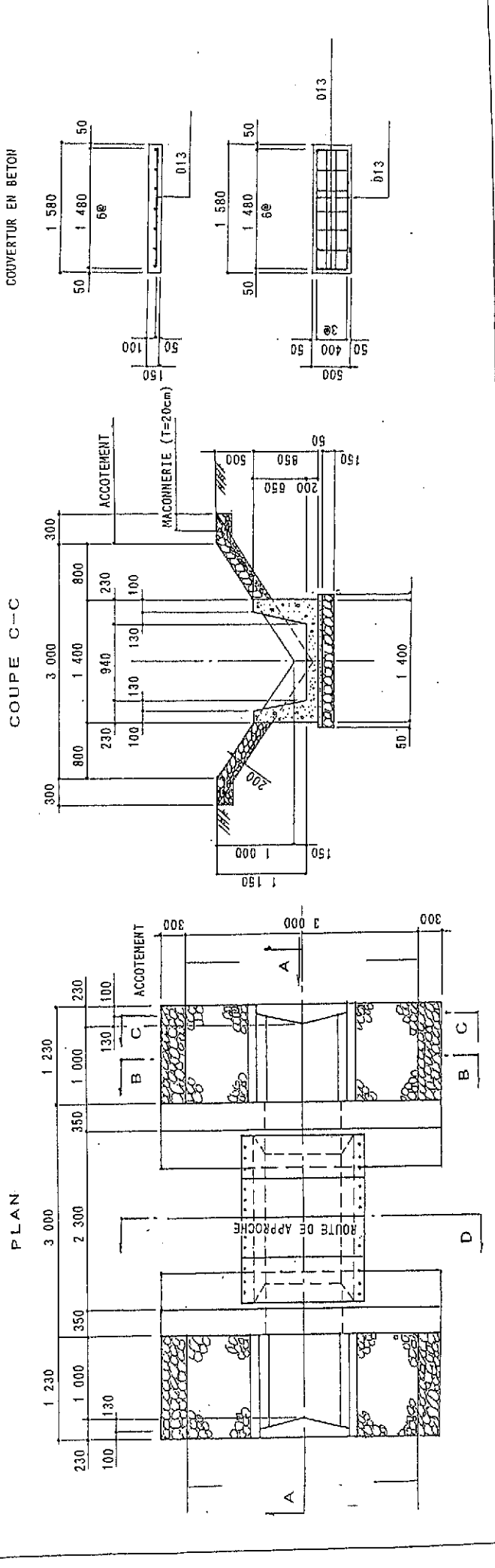
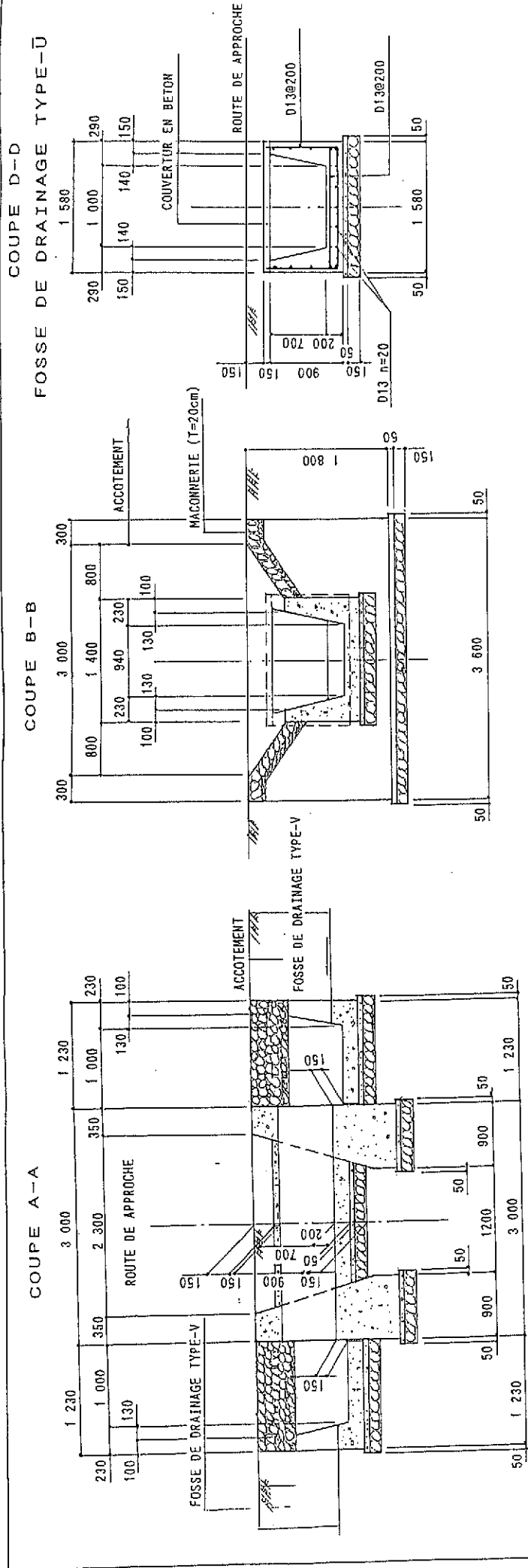
DETAILS D'OUVRAGES  
D'ART MINIEURS

échelle: plans:

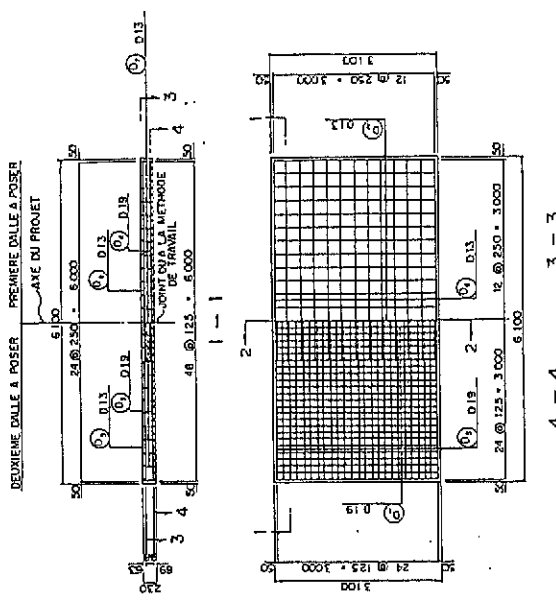


CONSTRUCTION PROJECT CONSULTANTS, INC.

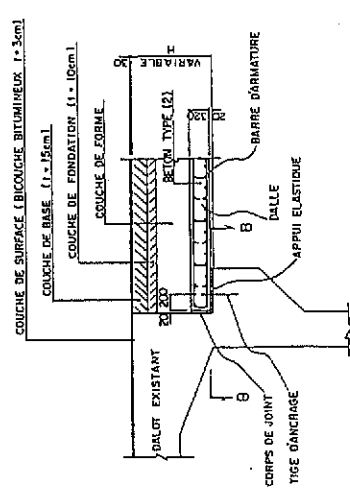
1000 J. J. J. J.



AGENCE JAPONAISE DE COOPERATION INTERNATIONALE	REPUBLIQUE CENTRAFRICAINE MINISTRE DES EQUIPEMENTS DES TRANSPORTS ET DE L'HABITAT, CHARGE DU DESENVLOPPEMENT	PROJET DE BITUMAGE DE LA ROUTE NATIONALE N° 3 (PHASE IV) TRONCON BAOKRO - BOUAR	ETUDE DU CONCEPT DE BASE DECEMBRE 2002		échelle: 1:50	details d'ouvrages d'art mineurs	CONSTRUCTION PROJECT CONSULTANTS, INC. TOKYO JAPAN

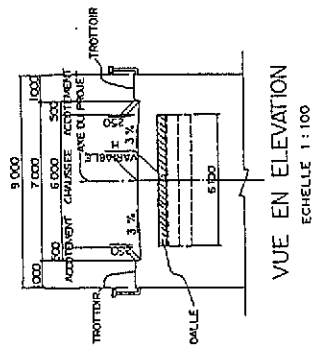


PLAN DE FERRAILAGE  
Echelle 1:50

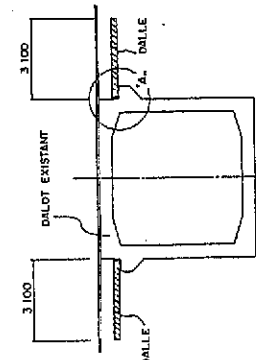


DETAIL DE LA "A"  
Echelle 1:30

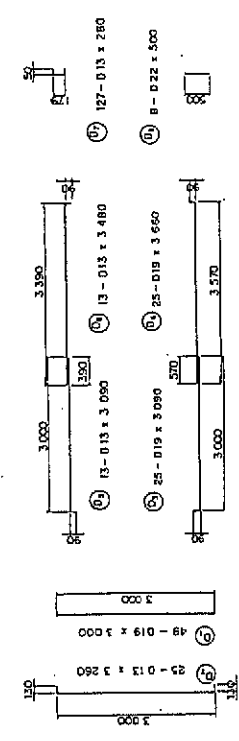
- NOTES
- Enduit asphalté bicouche Epaisseur = 3cm
  - Couche de surface
  - Couche de base
  - Couche de fondation
  - Couche de forme



VUE EN ELEVATION  
Echelle 1:100



VUE EN COUPE  
Echelle 1:100



CODE	DIAMETRE (mm)	LONGUEUR (mm)	NOMBRE DE FERRE	POIDS UNITAIRE (kg/m)	POIDS PAR PIECE (kg)	POIDS FACIENNAISE
0.1	D.19	3.000	49	2.250	6.750	331
0.2	D.13	3.260	25	0.995	3.244	81
0.3	D.19	3.090	25	2.250	6.955	174
0.4	D.19	3.660	25	2.250	8.235	206
0.5	D.13	3.090	13	0.995	3.075	40
0.6	D.13	3.480	13	0.995	3.463	45
0.7	D.13	280	127	0.995	0.279	35
0.8	D.22	500	8	3.050	1.520	12
			D.22	12 kg		
			D.19	110 kg		
			D.13	201 kg		
			Total	924 kg		

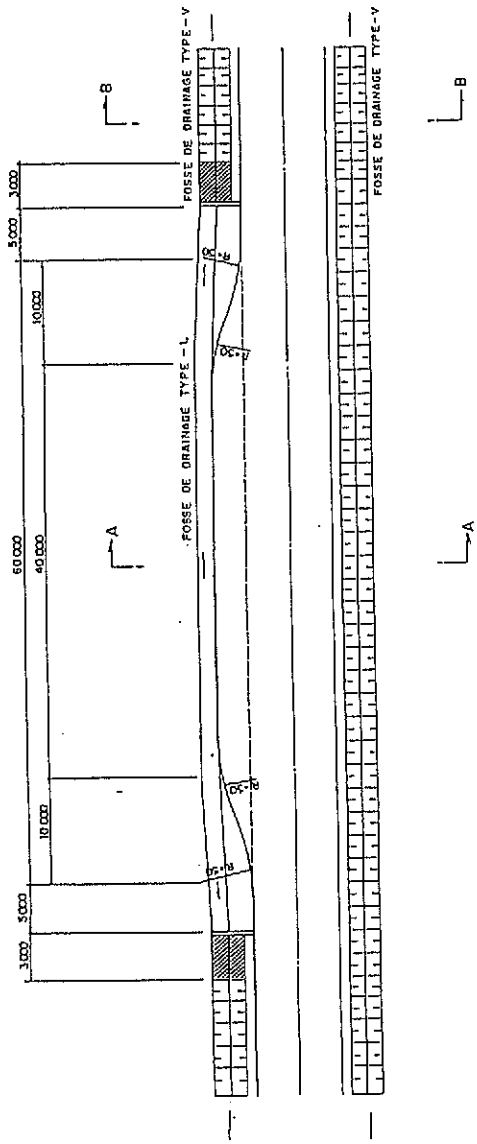
DETAIL DE LA B-B

- NOTES
- BETON TYPES :
    - TYPE 111 ----- Ouvrage en béton armé.
    - TYPE 121 ----- Ouvrage en béton armé de petite taille.
    - TYPE 131 ----- Béton ordinaire.
    - TYPE 141 ----- Béton maigre (béton de mise à niveau)

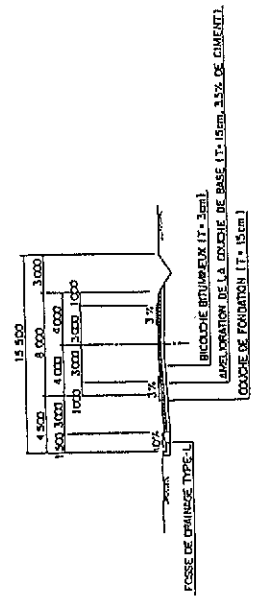
AGENCE JAPONAISE DE COOPERATION INTERNATIONALE	REPAUBLIQUE CENTRAFRICAINE MINISTERE DE L'EQUIPEMENT, DES TRANSPORTS ET DE L'HABITAT, CHARGE DU DESENVLOPPEMENT	PROJET DE BITUMAGE DE LA ROUTE NATIONALE N° 3 (PHASE IV) TRONCON BAORO - BOUAR	ETUDE DU CONCEPT DE BASE DECEMBRE 2002	DETAIL DE CONSTRUCTION DE DALLE DE TRANSITION Echelles: COMME VU planche:	CONSTRUCTION PROJECT CONSULTANTS, INC. TOKYO JAPAN
			DETAIL DE CONSTRUCTION DE DALLE DE TRANSITION		



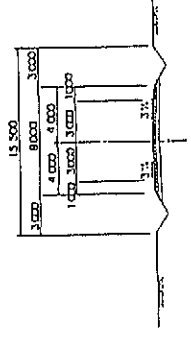
PLAN ECHELLE 1:250



COUPE A-A ECHELLE 1:200



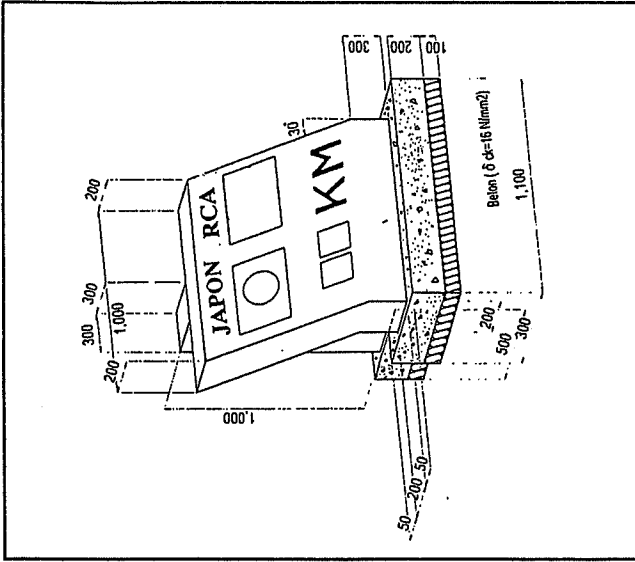
COUPE B-B ECHELLE 1:200



<p>AGENCE JAPONAISE DE COOPERATION INTERNATIONALE</p>	<p>REPUBLIQUE CENTRAFRICAINE MINISTERE DE L'EQUIPEMENT, DES TRANSPORTS ET DE L'HABITAT, CHARGE DU DESENGLOUVERMENT</p>	<p>PROJET DE BITUMAGE DE LA ROUTE NATIONALE N° 3 (PHASE IV) TRONCON BAORO - BOUAR</p>	<p>ETUDE DU CONCEPT DE BASE DECEMBRE 2012</p>	<p>DETAIL DE CONSTRUCTION DE LA VOIE D'EVITEMENT echelles: COMME VU</p>	<p>CONSTRUCTION PROJECT CONSULTANTS, INC. TOKYO JAPAN</p>
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PLAN DE CONCEPT ECHELLE A1 1:15  
A3 1:30

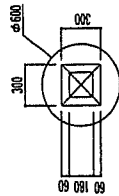
( BORNE KILOMETRIQUE DE L'AMITIE ENTRE DEUX PAYS (B.K) )



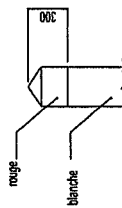
BALISES

ECHELLE A1 - 1:20  
A3 - 1:40

SECTION

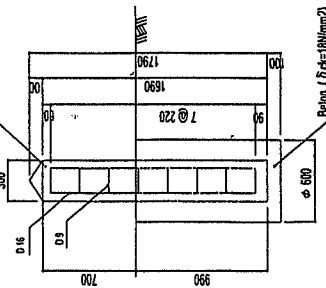


PEINTURE



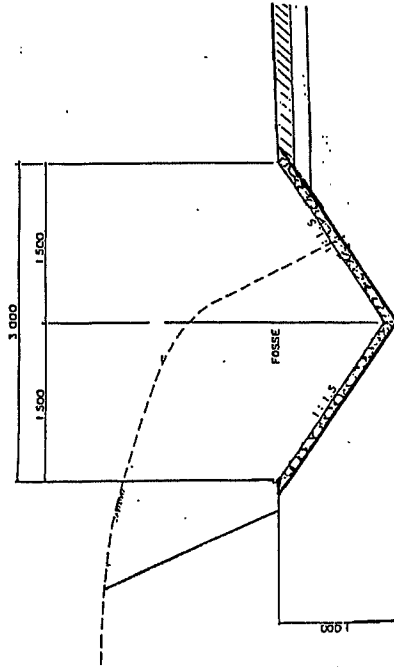
BALISE DE RETRECISSEMENT

BALISE D'INTERSECTION



BALISE DE VIRAGE

COUPE DE PIERRE MACONNE  
ECHELLE A1 - 1:20  
A3 - 1:40



AGENCE JAPONAISE DE  
COOPERATION INTERNATIONALE

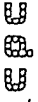
REPUBLIQUE CENTRAFRICAINE  
MINISTERE DE L'EQUIPEMENT, DES TRANSPORTS  
ET DE L'HABITAT, CHARGE DU DESENCLEAVEMENT

PROJET DE BITUMAGE  
DE LA ROUTE NATIONALE N° 3 (PHASE IV)  
TRONCON BAORO - BOUAR

ETUDE DU CONCEPT DE BASE  
DECEMBRE 2002

DETAIL DE CONSTRUCTION  
DE LA VALISE ET LA PIERRE  
MACONNE

echelles: COMME YU planche:



CONSTRUCTION PROJECT CONSULTANTS, INC.  
TOKYO JAPAN