

JAPAN INTERNATIONAL COOPERATION AGENCY

**MINISTRY OF INVESTMENT AND INTERNATIONAL COOPERATION
MINISTRY OF AGRICULTURE
TUNISIA**

**THE PREPARATORY SURVEY
ON
INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT
FOR
MEJERDA RIVER**

DESIGN DRAWINGS

FEBRUARY, 2013

YACHIYO ENGINEERING CO., LTD

TOKYO, JAPAN

**THE PREPARATORY SURVEY
ON
INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT
FOR
MEJERDA RIVER**

**DESIGN DRAWINGS
(RIVER IMPROVEMENT WORKS)**

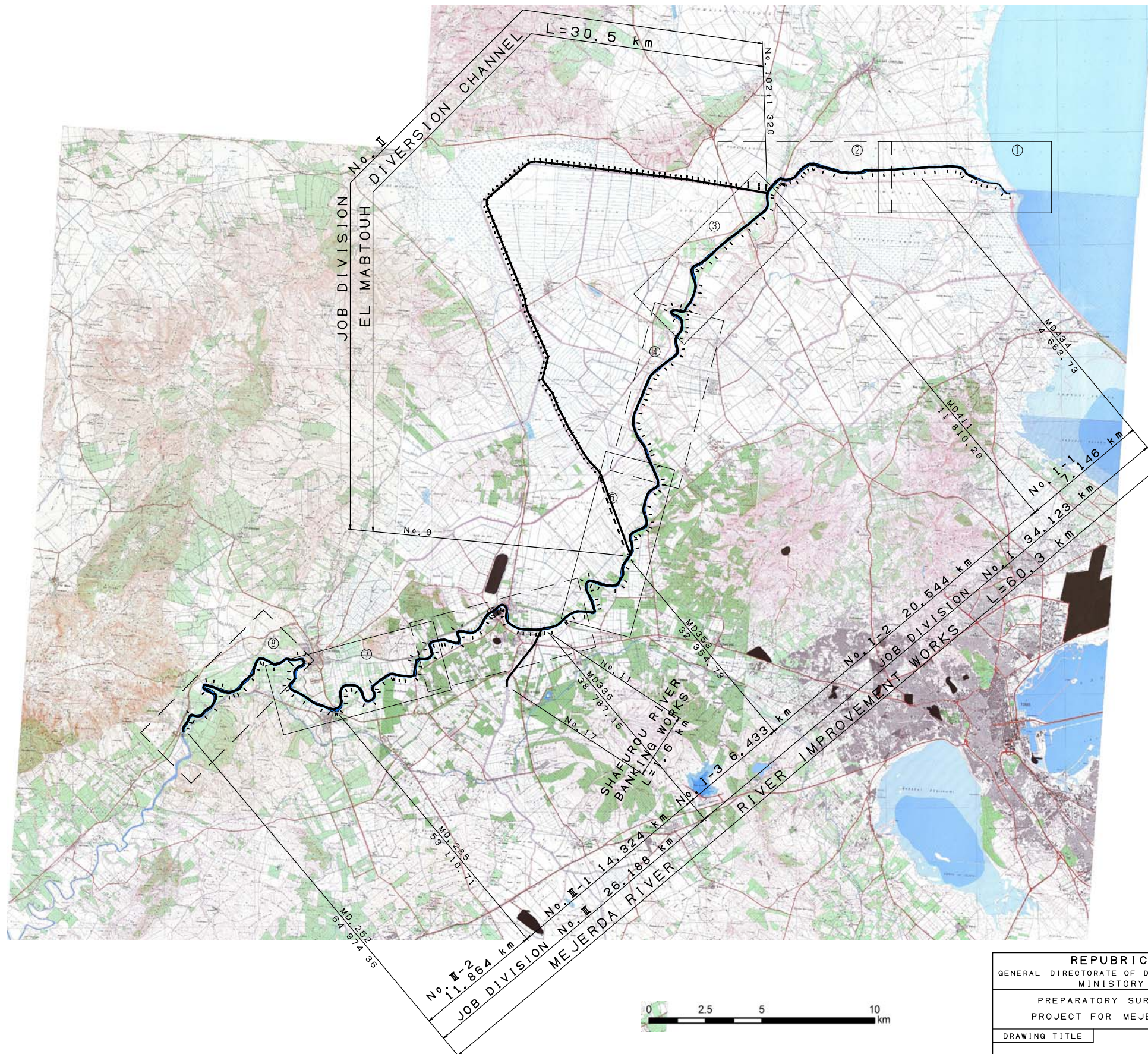
FEBRUARY, 2013

**YACHIYO ENGINEERING CO., LTD
TOKYO, JAPAN**

MEJERDA RIVER			
1	GENERAL PLAN	1	全体平面図
2-9	PLAN	1 - 8	平面図
10-19	LONGITUDINAL SECTION	1 - 10	縦断面図
20-21	TYPICAL CROSS SECTION	1 - 2	標準断面図
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SHAFUROU RIVER			
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58	TYPICAL CROSS SECTION	1	標準断面図
59-61	TRANSVERSE SECTION	1 - 3	横断面図
EL MABTOUH DIVERSION CHANNEL			
		-	
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63-67	PLAN	1 - 5	平面図
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73-75	TYPICAL CROSS SECTION	1 - 3	標準断面図
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85-88	INLET OVERFLOW DIKE ON MEJERDA RIVER	1 - 4	流入堰構造図
89-91	No.77 OVERFLOW DIKE	1 - 3	NO.77越流堰構造図
92-94	PLANNING DRAWING OF SLUICE GATE	1 - 3	制水ゲート樋管構造図
95-97	PLANNING DRAWING OF SLUICING OUTLET	1 - 3	排水樋管構造図
98	SERVICE GATE AND DIKE	1	緊急堰

GENERAL PLAN

S=1/100 000



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE		JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES			
DRAWING TITLE	GENERAL PLAN	CHANNEL	SHEET NO. 1
YEO YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN			

PLAN (1/8)

S=1/10 000



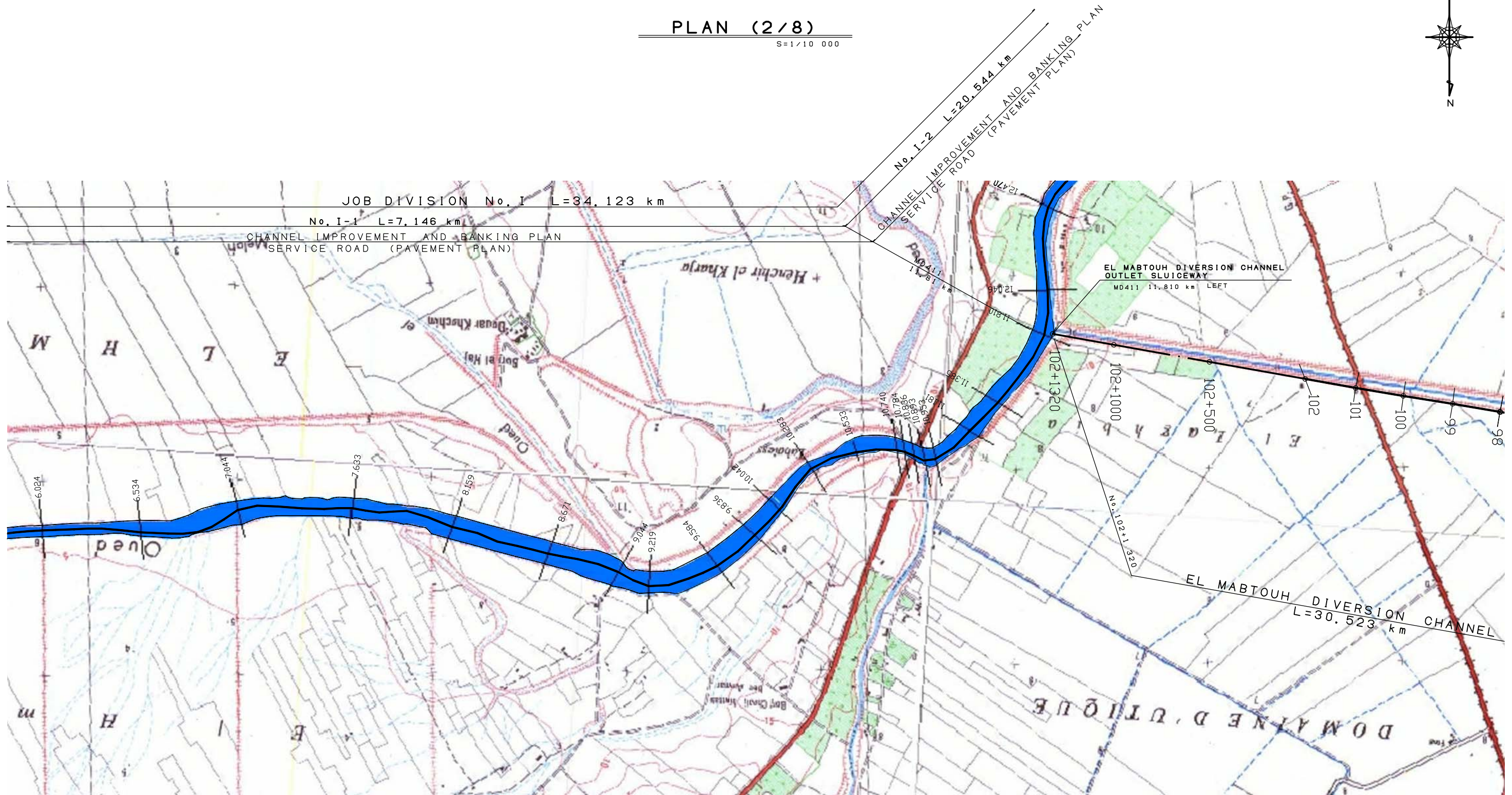
JOB DIVISION No. I L=34,123 km
 No. I-1 L=7,146 km
 CHANNEL IMPROVEMENT AND BANKING PLAN
 SERVICE ROAD (PAVEMENT PLAN)

MD434
4.66 km

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE		JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES			
DRAWING TITLE		SHEET NO.	
PLAN (1/8)		2	
YEO YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN			

PLAN (2/8)

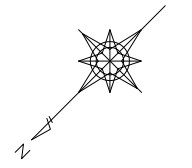
S=1/10 000



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE		JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES			
DRAWING TITLE		SHEET NO.	
PLAN (2/8)		3	
YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN			

PLAN (3/8)

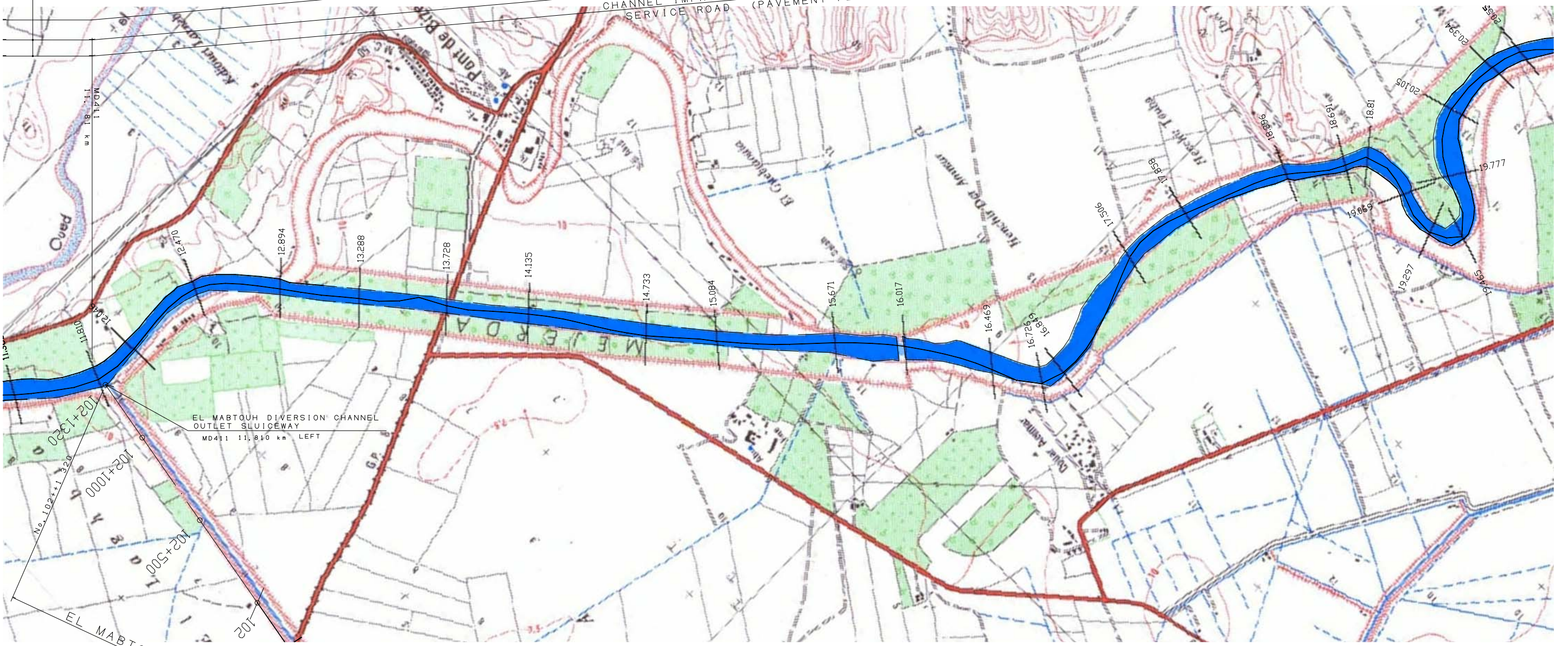
S=1/10 000



No. I-1 L=7.146 km
CHANNEL IMPROVEMENT AND BANKING PLAN
SERVICE ROAD (PAVEMENT PLAN)

JOB DIVISION No. I L=34.123 km

No. I-2 L=20.544 km
CHANNEL IMPROVEMENT AND
SERVICE ROAD (PAVEMENT PLAN)



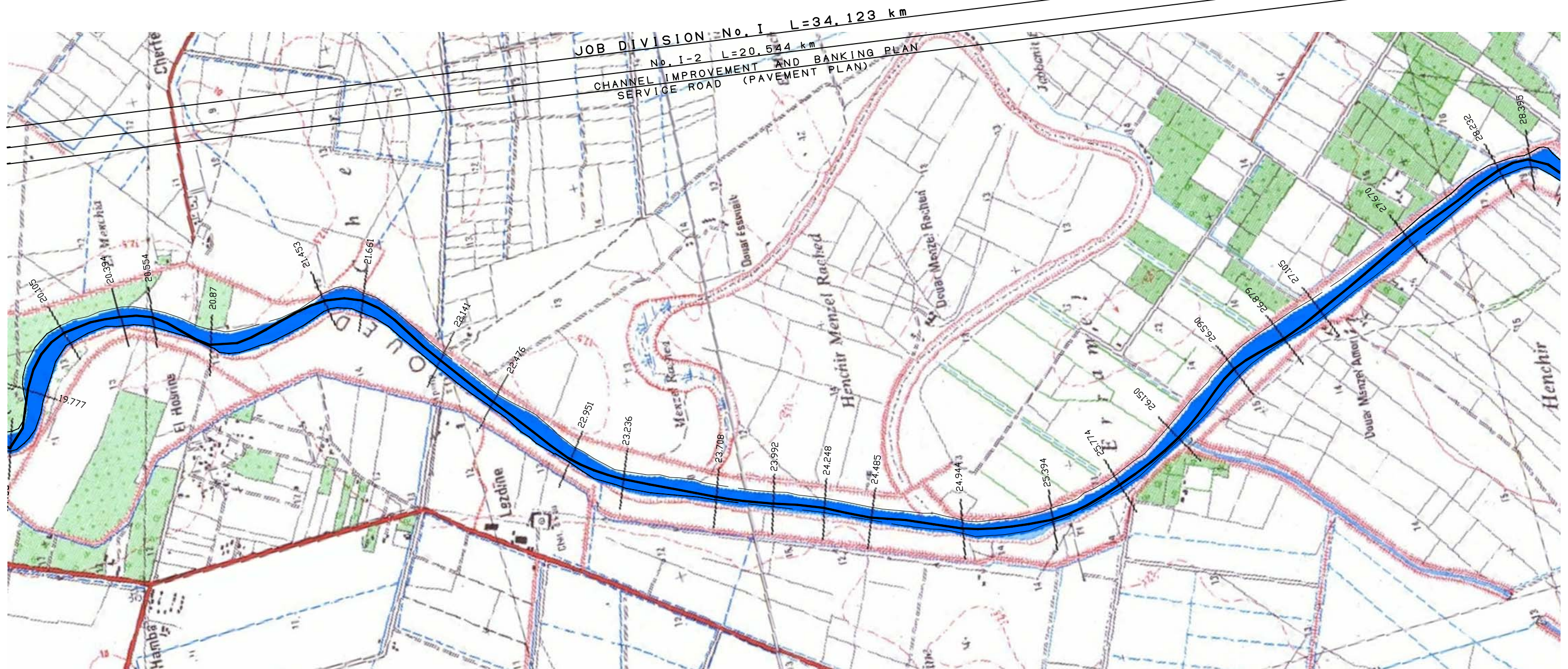
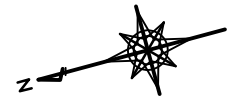
EL MABTOUH DIVERSION CHANNEL
OUTLET SLUICeway
MD411 11.810 km LEFT

EL MABTOUH DIVERSION CHANNEL
L=30.523 km

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE		JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES			
DRAWING TITLE		SHEET NO.	
PLAN (3/8)		4	
YEO YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN			

PLAN (4/8)

S=1/10 000



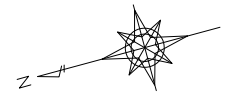
JOB DIVISION No. I L=34,123 km
No. I-2 L=20,544 km

CHANNEL IMPROVEMENT AND BANKING PLAN
SERVICE ROAD (PAVEMENT PLAN)

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE		JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES			
DRAWING TITLE		SHEET NO.	
PLAN (4/8)		5	
YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN			

PLAN (5/8)

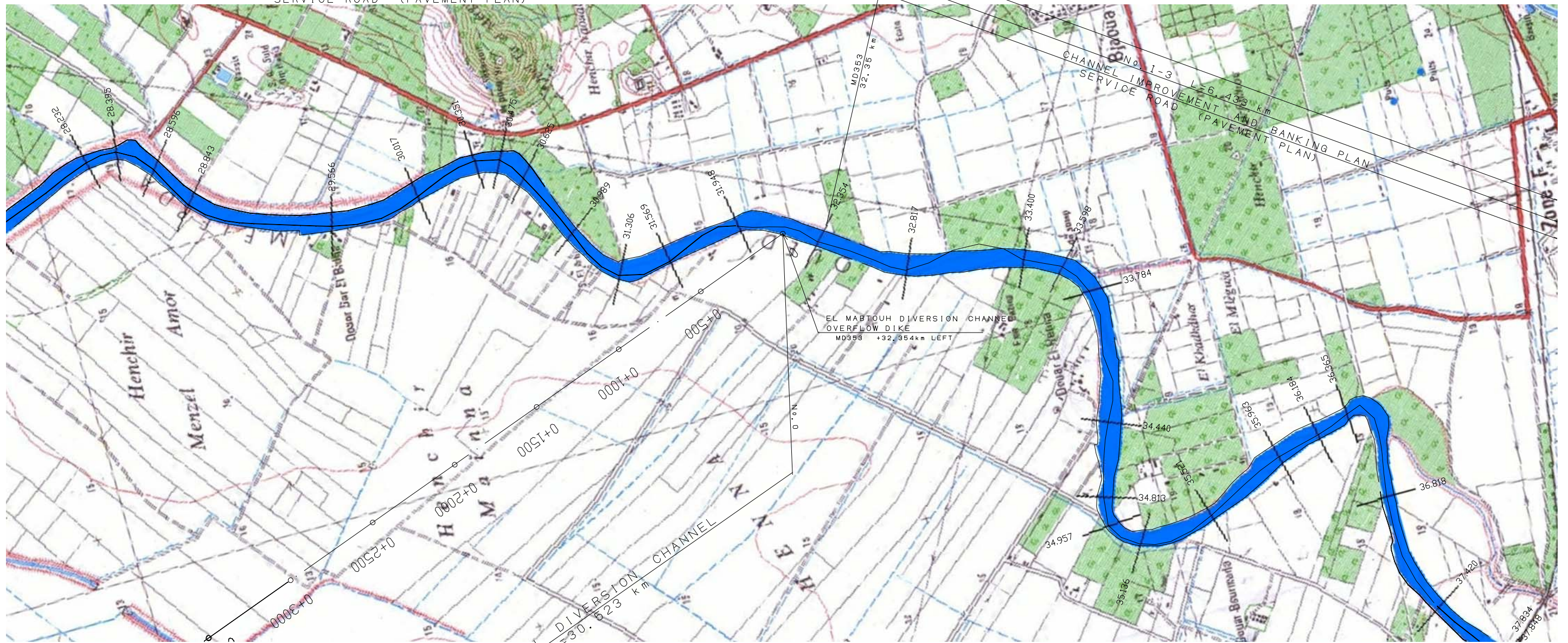
S=1/10 000



JOB DIVISION No. I L=34,123 km

No. 1-2 L=20,544 km

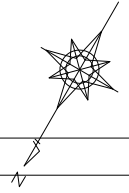
CHANNEL IMPROVEMENT AND BANKING PLAN
SERVICE ROAD (PAVEMENT PLAN)



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE		JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES			
DRAWING TITLE		SHEET NO.	
PLAN (5/8)		6	
YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN			

PLAN (6/8)

S=1/10 000



JOB DIVISION No. I L=34,123 km

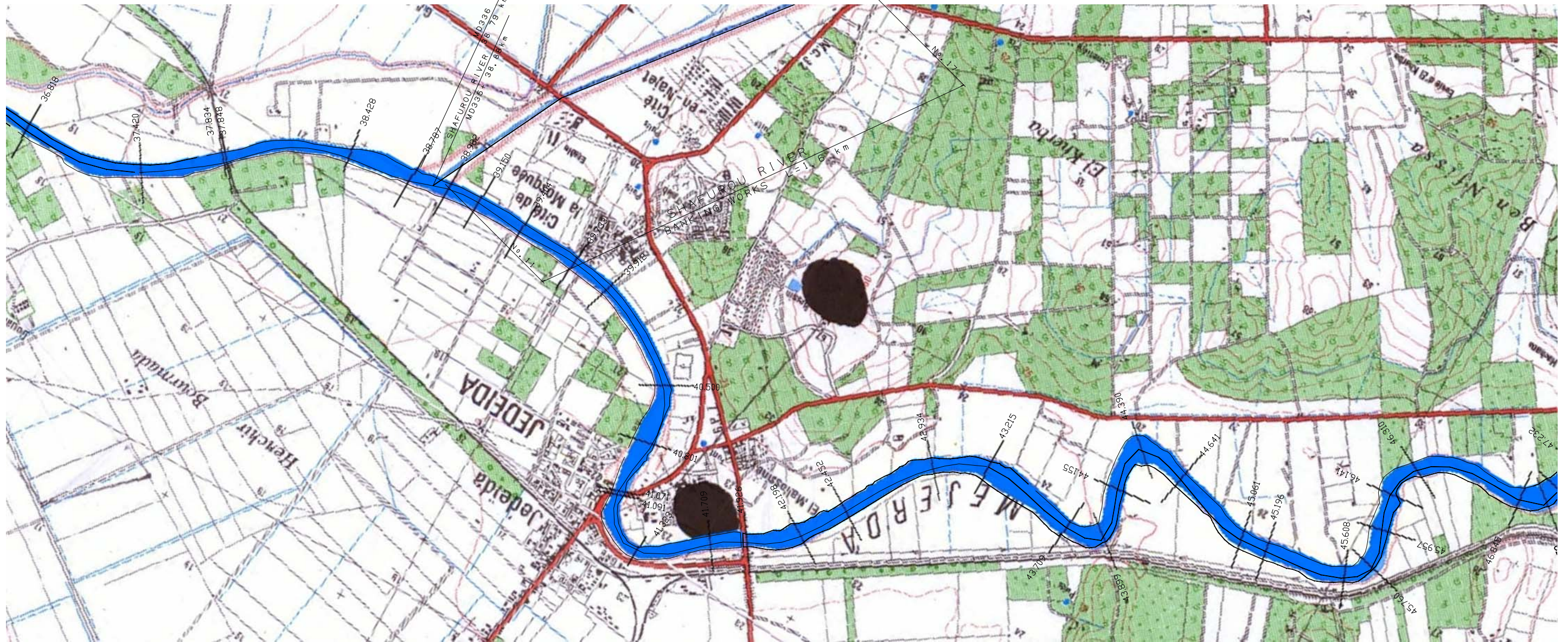
No. I-3 L=6,433 km

CHANNEL IMPROVEMENT AND BANKING PLAN
SERVICE ROAD (PAVEMENT PLAN)

JOB DIVISION No. III L=26,188 km

No. III-1 L=14,324 km

CHANNEL IMPROVEMENT AND BANKING PLAN
SERVICE ROAD (PAVEMENT PLAN)



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE		JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	PLAN (6/8)	SHEET NO. 7
YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN		

PLAN (7/8)

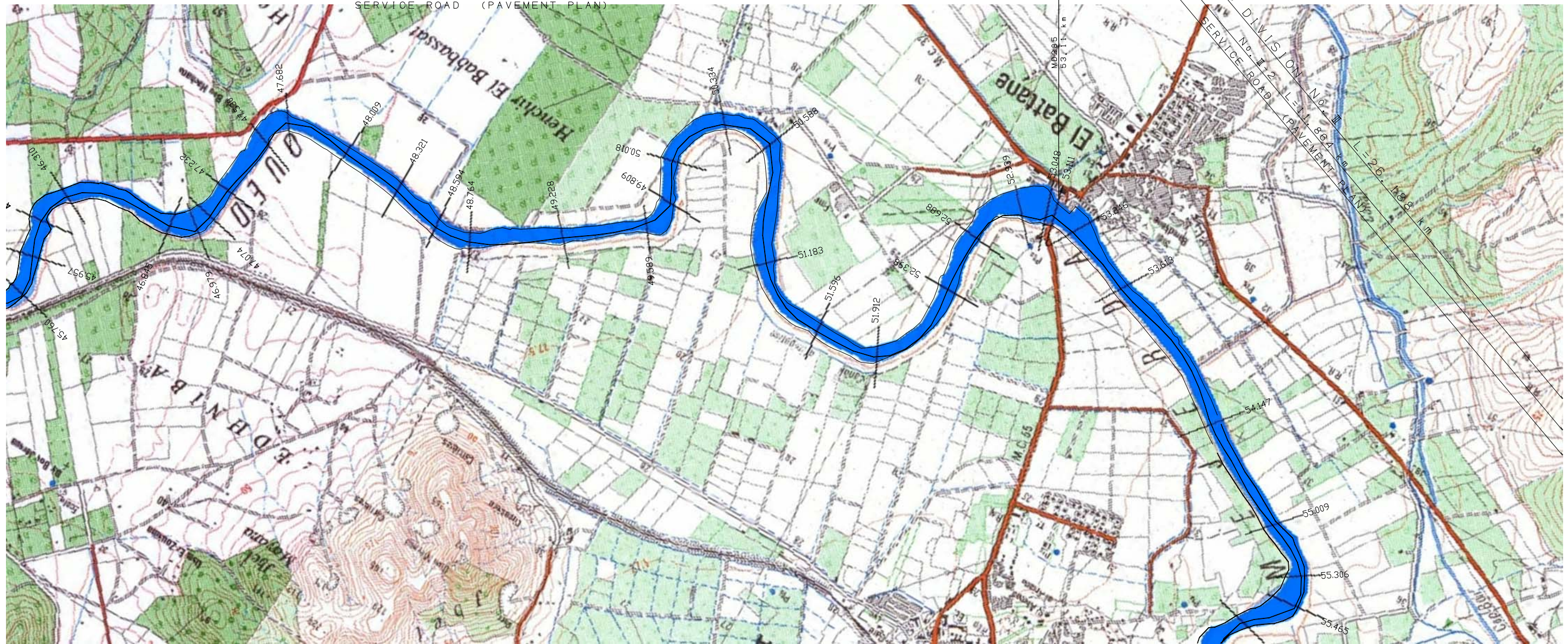
S=1/10 000



JOB DIVISION No. II L=26,188 km

No. II-1 L=14,324 km

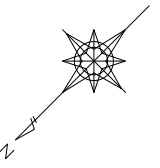
CHANNEL IMPROVEMENT AND BANKING PLAN
SERVICE ROAD (PAVEMENT PLAN)



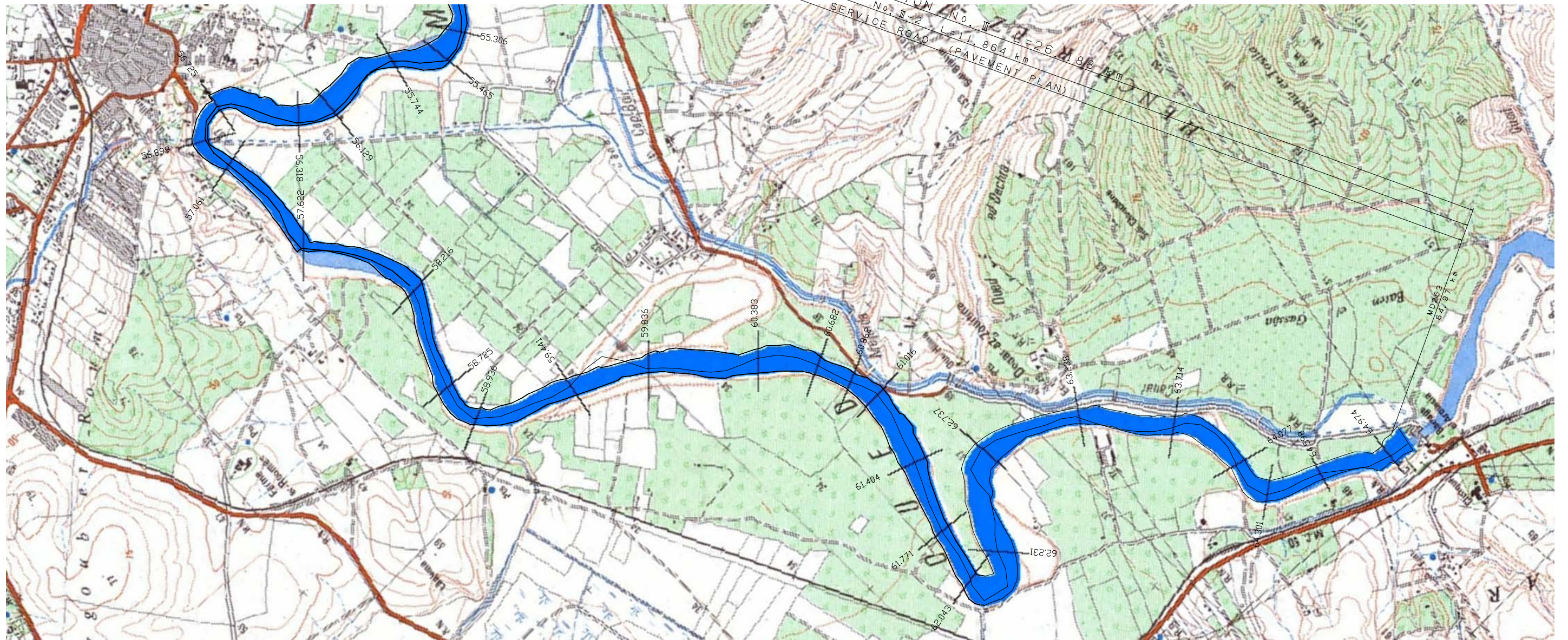
REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE		JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES			
DRAWING TITLE		SHEET NO.	
PLAN (7/8)		8	
YEC YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN			

PLAN (8/8)

S=1/10 000



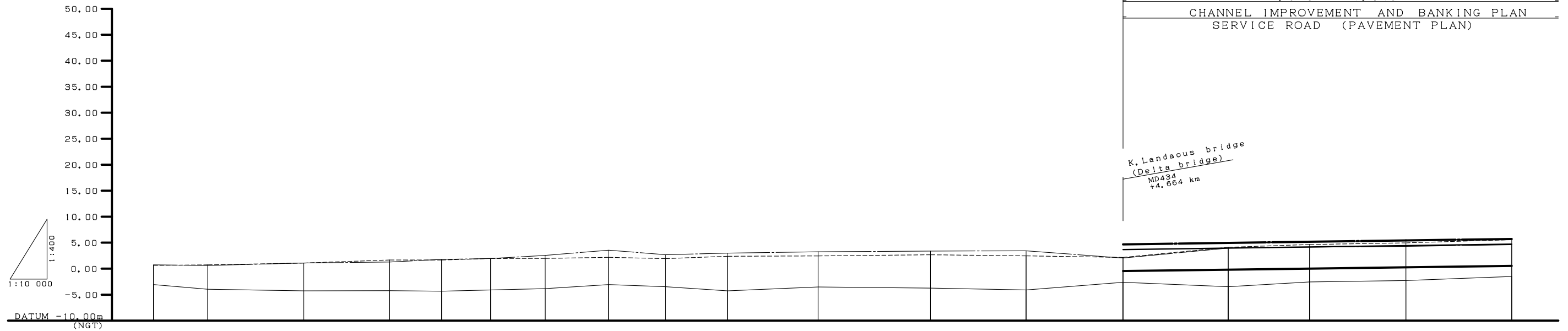
JOB DIVISION No. I-2 L=11.864 km
 No. III L=26.188 km
 SERVICE ROAD (PAVEMENT PLAN)



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE		JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	PLAN (8/8)	SHEET NO. 9
YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN		

LONGITUDINAL SECTION (1/10)

S: V=1/ 400
H=1/10 000



JOB DIVISION No. 1 L=34.123 km

No. 1-1 L=7.146 km

CHANNEL IMPROVEMENT AND BANKING PLAN
SERVICE ROAD (PAVEMENT PLAN)

K. Landaous bridge
(Delta bridge)
MD434
+4.664 km

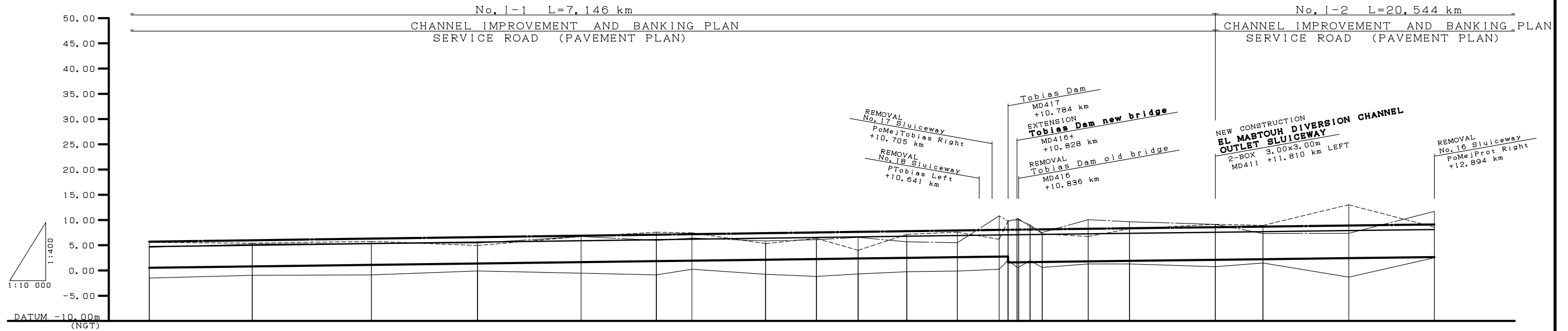
DESIGN	SLOPE OF LEVEE																			4.670	$i=1/2\ 000$ $L=6.120$ km			
	SLOPE OF MAJORBED																			0.458	$i=1/1\ 900$ $L=6.120$ km			
	LEVEE ELEVATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.670	4.951	5.168	5.426	5.709
	WATER LEVEL	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	0.000	0.000	3.670	3.951	4.168	4.426	4.709
	MAJORBED ELEVATION	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	0.000	0.000	-0.458	-0.192	0.014	0.258	0.526
	RIGHT BANK GROUND ELEVATION	0.630	0.730	1.080	1.670	1.660	1.960	1.970	2.180	1.930	2.360	2.450	2.670	2.460	2.160	4.110	4.640	4.960	5.560					
	LEFT BANK GROUND ELEVATION	0.730	0.610	1.090	1.280	1.780	1.950	2.550	3.550	2.680	2.980	3.240	3.360	3.430	2.040	3.960	4.130	4.280	4.600					
	RIVERBED ELEVATION	-3.060	-3.960	-4.260	-4.230	-4.320	-4.090	-3.830	-3.050	-3.470	-4.260	-3.510	-3.740	-4.090	-2.620	-3.460	-2.550	-2.280	-1.500					
	ACCUMULATIVE DISTANCE	0.00	261.33	722.84	1135.76	1385.65	1621.51	1883.73	2189.37	2462.45	2761.45	3197.26	3737.51	4197.39	4663.73	5170.09	5561.17	6024.48	6533.75					
	DISTANCE	0.000	261.33	461.51	412.92	249.89	235.86	262.22	305.64	273.08	299.00	435.81	540.25	459.88	466.34	506.36	391.08	463.31	509.27					
STATION No.	MD417	MD416	MD415	MD414	MD413	MD412	MD411	MD410	MD409	MD408	MD407	MD406	MD405	MD404	MD403	MD402	MD401	MD400						

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	LONGITUDINAL SECTION (1/10)	SHEET NO.
		10
YEO YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN		

LONGITUDINAL SECTION (2/10)

S: V=1/ 400
H=1/10 000

JOB DIVISION No. I L=34,123 km



DESIGN	SLOPE OF LEVEE		SLOPE OF MAJORBED																					
	$i=1/2\ 000$ L=6,120 km		$i=1/1\ 900$ L=6,120 km																					
LEVEE ELEVATION	5.709	5.992	6.319	6.611	6.896	7.103	7.201	7.403	7.543	7.658	7.791	7.930	8.045	8.070	8.092	8.124	8.154	8.268	8.370	8.583	8.701	8.913	9.125	
WATER LEVEL	4.709	4.992	5.319	5.611	5.896	6.103	6.201	6.403	6.543	6.658	6.791	6.930	7.045	7.070	7.092	7.124	7.154	7.268	7.370	7.583	7.701	7.913	8.125	
MAJORBED ELEVATION	0.526	0.795	1.105	1.381	1.651	1.847	1.940	2.132	2.264	2.373	2.459	2.631	2.740	2.763	2.786	2.810	2.834	2.948	3.050	3.263	3.475	3.687	3.899	
RIGHT BANK GROUND ELEVATION	5.560	5.400	5.770	4.940	6.740	7.590	7.470	5.320	6.370	3.990	7.160	7.600	6.190	3.610	10.030	10.030	9.040	7.290	6.740	8.270	9.150	8.940	13.020	8.600
LEFT BANK GROUND ELEVATION	4.600	5.200	5.360	5.420	6.750	5.960	6.420	5.660	6.100	6.580	5.660	5.500	10.620	3.780	10.230	10.230	8.670	7.540	10.070	9.660	9.140	7.330	7.360	11.710
RIVERBED ELEVATION	-1.500	-0.960	-0.870	-0.090	-0.530	-0.870	0.240	-0.760	-1.160	-0.660	-0.240	-0.110	0.240	2.030	0.640	1.960	0.600	1.300	1.290	0.750	1.480	-1.310	2.510	
ACCUMULATIVE DISTANCE	6533.75	7043.97	7632.69	8158.62	8671.04	9043.72	9219.34	9583.94	9835.76	10042.17	10282.53	10533.00	10641.00	10705.00	10784.22	10836.20	10893.01	11180.65	11384.98	11810.20	12045.79	12470.28	12893.64	
DISTANCE	509.27	510.22	588.72	525.33	512.42	372.68	175.62	364.6	251.82	206.41	240.36	250.47	207.02	44.20	43.36	6.00	56.81	228.06	204.33	425.22	235.59	424.49	423.36	
STATION No.	MD430	MD429	MD428	MD427	MD426	MD425	MD424	MD423	MD422	MD421	MD420	MD419	MD418	MD417	MD416	MD415	MD414	MD413	MD412	MD411	MD410	MD409	MD408	

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	LONGITUDINAL SECTION (2/10)
YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN	
SHEET NO.	
11	

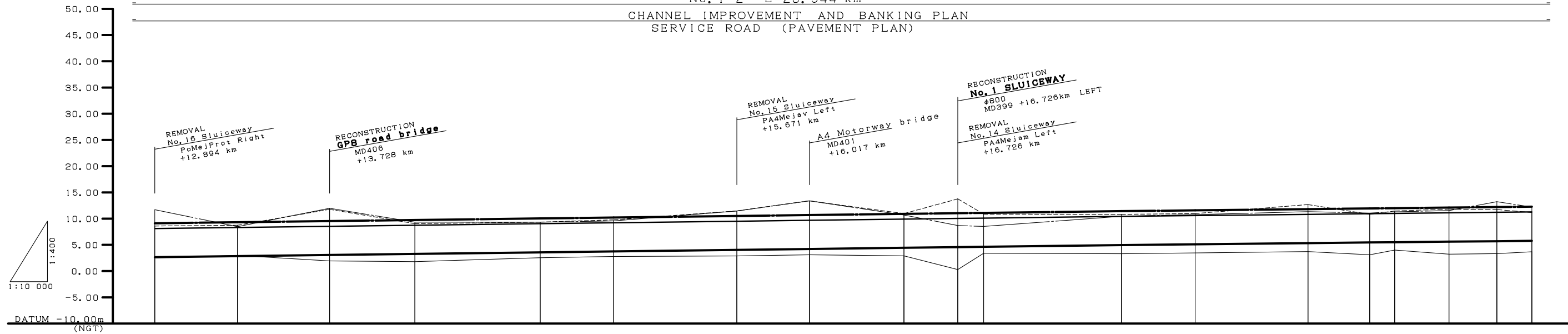
LONGITUDINAL SECTION (3/10)

S: V=1/ 400
H=1/10 000

JOB DIVISION No. I L=34,123 km

No. 1-2 L=20,544 km

CHANNEL IMPROVEMENT AND BANKING PLAN
SERVICE ROAD (PAVEMENT PLAN)



DESIGN	SLOPE OF LEVEE	$i=1/2\ 000$ L=6,722 km															$i=1/2\ 300$ L=21,476 km														
	SLOPE OF MAJORBED	$i=1/2\ 000$ L=6,722 km															$i=1/2\ 400$ L=14,442 km														
	LEVEE ELEVATION	9.125	9.322	9.542	9.745	10.044	10.220	10.513	10.686	10.912	11.041	11.102	11.431	11.584	11.818	11.946	11.998	12.111	12.210	12.283											
	WATER LEVEL	8.125	8.322	8.542	8.745	9.044	9.220	9.513	9.686	9.912	10.041	10.102	10.431	10.584	10.818	10.946	10.998	11.111	11.210	11.283											
	MAJORBED ELEVATION	2.653	2.850	3.070	3.273	3.572	3.748	4.041	4.214	4.440	4.569	4.630	4.959	5.105	5.330	5.452	5.502	5.610	5.705	5.775											
	RIGHT BANK GROUND ELEVATION	8.600	8.750	11.780	9.050	9.350	9.780	11.480	13.350	10.970	13.770	10.870	10.820	10.970	12.680	10.830	11.460	11.820	11.740	11.170											
	LEFT BANK GROUND ELEVATION	11.710	8.480	11.980	9.330	9.320	9.580	11.460	13.410	10.690	8.690	8.520	10.450	10.780	11.330	11.070	11.310	11.540	13.230	12.210											
	RIVERBED ELEVATION	2.510	2.980	1.940	1.810	2.550	2.780	2.890	3.110	2.910	0.290	3.400	3.310	3.470	3.720	3.110	4.010	3.220	3.320	3.680											
	ACCUMULATIVE DISTANCE	12893.64	13288.17	13727.89	14134.72	14732.64	15083.61	15670.78	16017.03	16468.56	16725.62	16848.81	17506.08	17857.74	18396.21	18690.58	18810.11	19068.14	19297.35	19464.72											
	DISTANCE	423.36	394.53	439.72	406.83	597.92	350.97	587.17	346.25	451.53	257.06	123.19	657.27	351.66	538.47	294.37	119.53	253.03	228.21	167.37											
STATION No.	MD406	MD407	MD408	MD405	MD404	MD403	MD402	MD401	MD400	MD399	MD398	MD397	MD396	MD395	MD394	MD393	MD392	MD391	MD390												

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
LONGITUDINAL SECTION (3/10)	12
YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN	

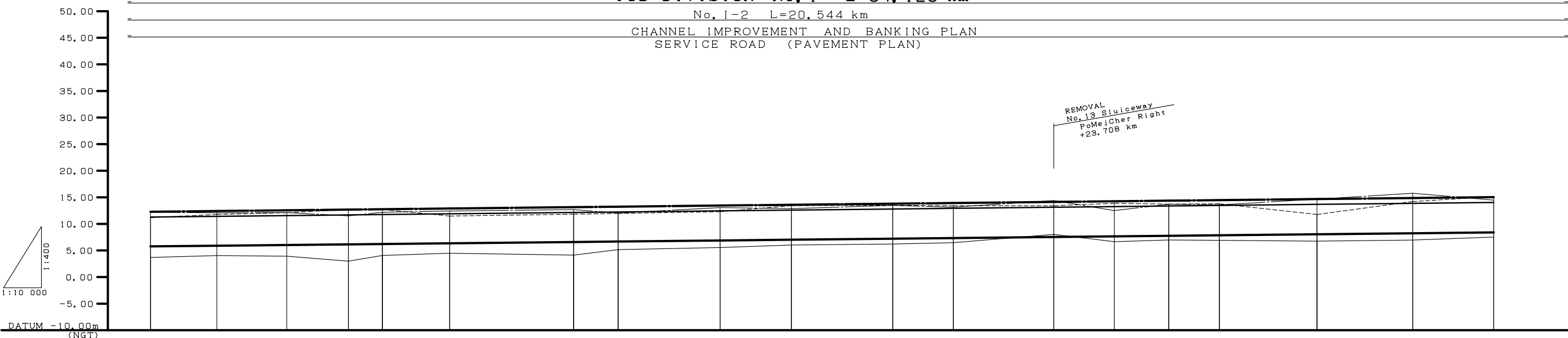
LONGITUDINAL SECTION (4/10)

S : V=1/ 400
H=1/10 000

JOB DIVISION No. 1 L=34,123 km

No. 1-2 L=20,544 km

CHANNEL IMPROVEMENT AND BANKING PLAN
SERVICE ROAD (PAVEMENT PLAN)



DESIGN	SLOPE OF LEVEE	$i=1/2\ 300$ $L=21,476\ km$																		
	SLOPE OF MAJORBED	$i=1/2\ 400$ $L=14,442\ km$																		
	LEVEE ELEVATION	12.283	12.418	12.561	12.687	12.756	12.894	13.147	13.238	13.446	13.592	13.798	13.922	14.127	14.251	14.362	14.465	14.665	14.860	15.026
	WATER LEVEL	11.283	11.418	11.561	11.687	11.756	11.894	12.147	12.238	12.446	12.592	12.798	12.922	13.127	13.251	13.362	13.465	13.665	13.860	14.026
	MAJORBED ELEVATION	5.775	5.905	6.042	6.162	6.229	6.361	6.603	6.690	6.890	7.030	7.228	7.346	7.543	7.661	7.768	7.867	8.058	8.245	8.404
	RIGHT BANK GROUND ELEVATION	11.170	11.770	12.110	12.720	12.720	11.480	11.820	11.970	12.290	13.430	13.510	13.420	13.410	13.660	13.720	13.790	11.770	14.200	15.140
	LEFT BANK GROUND ELEVATION	12.210	12.060	12.130	11.510	12.190	12.420	12.690	12.030	13.070	12.880	13.470	13.140	14.390	12.510	13.690	13.570	14.640	15.750	14.470
	RIVERBED ELEVATION	3.680	4.040	3.920	2.990	4.060	4.480	4.120	5.160	5.550	6.040	6.230	6.470	8.040	6.660	6.980	6.920	6.760	6.970	7.530
	ACCUMULATIVE DISTANCE	19464.72	19776.60	20105.08	20394.45	20553.95	20870.35	21452.54	21661.40	22140.50	22475.71	22951.40	23236.04	23708.17	23992.08	24247.93	24485.15	24943.85	25393.79	25774.29
	DISTANCE	167.37	311.88	328.48	289.37	159.50	316.40	582.19	208.86	479.10	335.21	475.69	284.64	472.13	283.91	255.85	237.22	458.70	449.94	380.50
STATION No.	MD390	MD389	MD388	MD387	MD386	MD385	MD384	MD383	MD382	MD381	MD380	MD379	MD378	MD377	MD376	MD375	MD374	MD373	MD372	

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
LONGITUDINAL SECTION (4/10)	13
YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN	

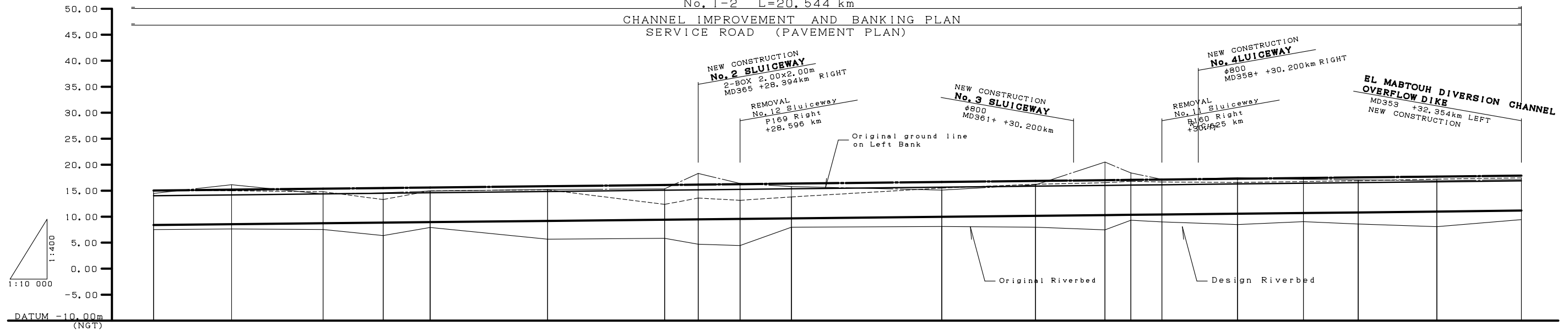
LONGITUDINAL SECTION (5/10)

S: V=1/ 400
H=1/10 000

JOB DIVISION No. 1 L=34,123 km

No. 1-2 L=20,544 km

CHANNEL IMPROVEMENT AND BANKING PLAN
SERVICE ROAD (PAVEMENT PLAN)



DESIGN	SLOPE OF LEVEE	$i=1/2\ 300$ $L=21.476\ km$																			
	SLOPE OF MAJORBED	$i=1/2\ 400$ $L=14.442\ km$																			
	LEVEE ELEVATION	15.026	15.189	15.380	15.506	15.604	15.650	16.095	16.165	16.253	16.360	16.674	16.870	17.016	17.070	17.135	17.293	17.431	17.545	17.710	17.887
	WATER LEVEL	14.026	14.189	14.380	14.506	14.604	14.650	15.095	15.165	15.253	15.360	15.674	15.870	16.016	16.070	16.135	16.293	16.431	16.545	16.710	16.887
	MAJORBED ELEVATION	8.404	8.560	8.744	8.864	8.958	9.194	9.428	9.496	9.580	9.682	9.994	10.172	10.311	10.363	10.425	10.577	10.709	10.819	10.976	11.190
	RIGHT BANK GROUND ELEVATION	15.140	14.980	14.800	13.300	14.980	15.170	12.370	13.580	13.150	13.800	15.500	16.240	16.530	16.810	16.670	16.580	16.750	16.900	17.220	17.460
	LEFT BANK GROUND ELEVATION	14.470	16.150	14.370	14.580	14.950	15.230	15.350	16.310	16.380	15.790	15.120	16.120	20.520	18.410	17.170	17.450	17.180	17.070	16.920	17.120
	RIVERBED ELEVATION	7.530	7.640	7.540	6.360	7.930	5.660	5.650	4.650	4.440	7.950	8.120	7.950	7.470	9.320	9.000	8.450	9.050	8.600	8.050	9.440
	ACCUMULATIVE DISTANCE	25774.23	26149.64	26599.94	26878.79	27104.90	27669.87	28232.48	28394.52	28595.77	28842.58	29665.84	3007.02	30351.08	30475.47	30625.10	30988.54	31305.69	31569.10	31947.83	32354.37
	DISTANCE	380.50	375.35	440.30	288.85	226.11	564.37	562.61	162.04	201.25	246.81	723.26	451.18	334.06	124.39	149.63	363.44	317.15	263.41	378.73	406.54
STATION No.	MD372	MD371	MD370	MD369	MD368	MD367	MD366	MD365	MD364	MD363	MD362	MD361	MD360	MD359	MD358	MD357	MD356	MD355	MD354	MD353	

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
LONGITUDINAL SECTION (5/10)	14
YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN	

LONGITUDINAL SECTION (6/10)

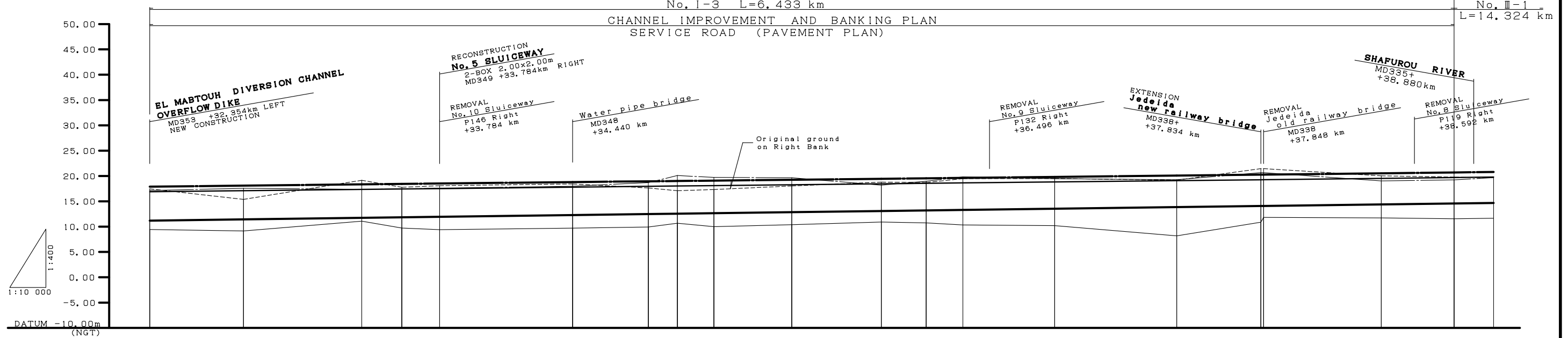
JOB DIVISION No. III
L=26,188 km

S: V=1/ 400
H=1/10 000

JOB DIVISION No. I L=34,123 km

No. I-3 L=6,433 km

No. III-1
L=14,324 km



DESIGN	SLOPE OF LEVEE	$i=1/2\ 300$ L=14,128 km																				
	SLOPE OF MAJORBED	$i=1/1\ 900$ L=21,163 km																				
	LEVEE ELEVATION	17.887	18.089	18.341	18.427	18.508	18.759	18.956	19.018	19.096	19.263	19.455	19.552	19.630	19.827	20.089	20.269	20.275	20.528	20.707	20.805	
	WATER LEVEL	16.887	17.089	17.341	17.427	17.508	17.759	17.956	18.018	18.096	18.263	18.455	18.552	18.630	18.827	19.089	19.269	19.275	19.528	19.707	19.805	
	MAJORBED ELEVATION	11.190	11.434	11.741	11.845	11.943	12.288	12.484	12.560	12.655	12.857	13.089	13.206	13.301	13.539	13.856	14.075	14.082	14.387	14.576	14.679	
	RIGHT BANK GROUND ELEVATION	17.460	15.380	19.160	17.760	18.080	18.420	17.630	17.090	17.320	18.030	18.780	18.710	19.490	19.510	19.190	21.460	21.460	20.040	19.790	19.660	
	LEFT BANK GROUND ELEVATION	17.120	17.570	17.370	17.450	17.600	17.970	18.690	20.100	19.790	19.660	18.180	18.980	19.630	19.480	19.280	20.660	20.660	19.040	19.240	19.680	
	RIVERBED ELEVATION	9.440	9.160	11.090	9.790	9.400	9.710	9.930	10.680	9.990	10.390	10.910	10.740	10.340	10.200	8.180	10.880	11.820	11.720	11.550	11.680	
	ACCUMULATIVE DISTANCE	32354.37	32817.05	33399.83	33997.74	33784.12	34439.65	34813.29	34956.72	35136.48	35520.87	35962.99	36183.85	36364.94	36496.00	36877.51	37419.53	37834.35	37846.15	38428.33	38787.15	38982.48
	DISTANCE	406.54	462.68	582.78	197.91	186.38	655.53	373.64	143.43	179.76	384.39	441.72	221.26	181.09	452.57	602.02	414.82	13.80	580.18	358.82	195.33	
STATION No.	MD353	MD352	MD351	MD350	MD349	MD348	MD347	MD346	MD345	MD344	MD343	MD342	MD341	MD340	MD339	MD338+ MD338	MD337	MD336	MD335			

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	LONGITUDINAL SECTION (6/10)
YEO YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN	
SHEET NO.	
15	

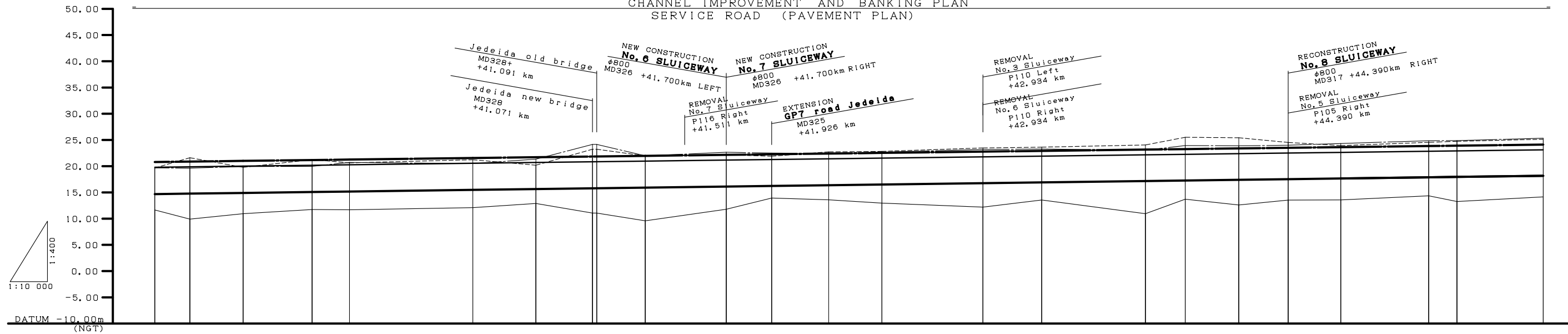
LONGITUDINAL SECTION (7/10)

S: V=1/ 400
H=1/10 000

JOB DIVISION No. III L=26,188 km

No. III-1 L=14,324 km

CHANNEL IMPROVEMENT AND BANKING PLAN
SERVICE ROAD (PAVEMENT PLAN)



DESIGN	SLOPE OF LEVEE	20.805																								
	SLOPE OF MAJORBED	i=1/1 900 L=14,128 km																								
	LEVEE ELEVATION	20.805	20.868	21.015	21.180	21.269	21.564	21.714	21.849	21.859	21.975	22.168	22.276	22.413	22.539	22.780	22.921	23.168	23.263	23.391	23.509	23.634	23.844	23.911	24.117	
	WATER LEVEL	19.805	19.888	20.015	20.180	20.269	20.564	20.714	20.849	20.859	20.975	21.168	21.276	21.413	21.539	21.780	21.921	22.168	22.263	22.391	22.509	22.634	22.844	22.911	23.117	
	MAJORBED ELEVATION	14.672	14.767	14.900	15.074	15.168	15.478	15.636	15.778	15.789	15.911	16.114	16.228	16.371	16.505	16.758	16.906	17.167	17.267	17.401	17.525	17.657	17.878	17.949	18.166	
	RIGHT BANK GROUND ELEVATION	19.660	21.620	19.750	21.260	20.640	21.230	20.200	23.240	23.240	21.970	22.180	21.900	22.740	22.630	23.480	23.630	24.050	25.510	25.420	24.530	23.930	24.550	24.740	25.140	
	LEFT BANK GROUND ELEVATION	19.660	19.640	19.920	19.980	20.730	20.500	21.350	24.150	24.150	21.990	22.660	22.510	22.430	22.690	23.190	23.270	23.050	23.940	23.890	24.010	24.330	24.650	24.680	25.340	
	RIVERBED ELEVATION	11.660	9.910	10.950	11.740	11.700	12.100	12.900	11.070	11.070	9.600	11.800	13.920	13.580	12.960	12.200	13.550	10.940	13.710	12.600	13.540	13.570	14.350	13.260	14.150	
	ACCUMULATIVE DISTANCE	36982.48	39150.04	39403.52	39732.85	39911.53	40500.29	40801.18	41071.04	41091.04	41322.97	41511.00	41709.19	41926.06	42198.29	42452.03	42933.88	43214.75	43709.20	43889.41	44155.17	44390.43	44641.40	45060.63	45196.09	45607.61
	DISTANCE	155.33	167.56	253.48	329.33	178.68	588.76	300.89	269.86	20.00	231.93	386.22	216.87	272.23	253.74	481.85	280.87	494.45	190.21	255.76	235.26	250.97	419.43	135.26	411.52	
STATION No.	MD335	MD334	MD333	MD332	MD331	MD330	MD329	MD328	MD328+	MD327	MD326	MD325	MD324	MD323	MD322	MD321	MD320	MD319	MD318	MD317	MD316	MD315	MD314	MD313		

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
LONGITUDINAL SECTION (7/10)	16
YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN	

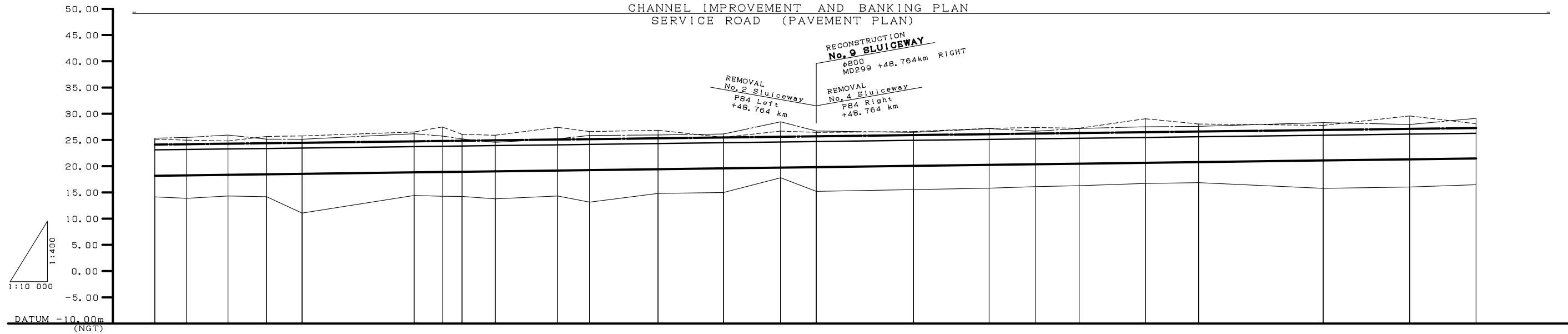
LONGITUDINAL SECTION (8/10)

S: V=1/ 400
H=1/10 000

JOB DIVISION No. III L=26,188 km

No. III-1 L=14,324 km

CHANNEL IMPROVEMENT AND BANKING PLAN
SERVICE ROAD (PAVEMENT PLAN)



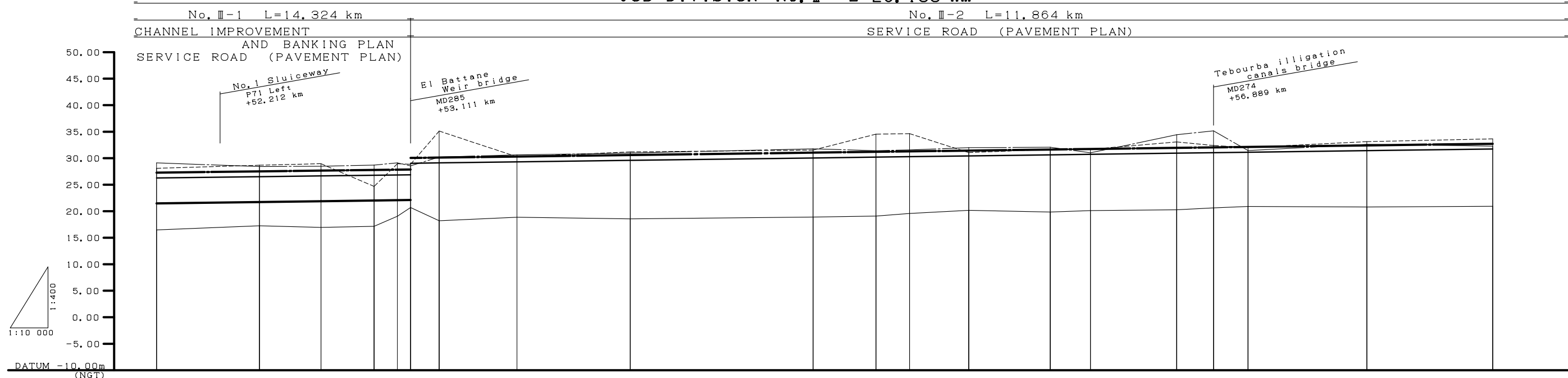
DESIGN	<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"></div> <div style="width: 55%; text-align: right;"> $i=1/1\ 900$ L=14,128 km </div> </div>																									
	<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"></div> <div style="width: 55%; text-align: right;"> $i=1/1\ 900$ L=21,163 km </div> </div>																									
	LEVEE ELEVATION	24.117	24.194	24.292	24.384	24.469		24.736	24.803	24.860	24.929	25.078	25.155	25.318	25.474	25.610	25.655	25.927	26.108	26.218	26.322	26.480	26.608	26.905	27.111	27.270
	WATER LEVEL	23.117	23.194	23.292	23.384	23.469		23.736	23.803	23.860	23.929	24.078	24.155	24.318	24.474	24.610	24.655	24.927	25.108	25.218	25.322	25.480	25.608	25.905	26.111	26.270
	MAJORBED ELEVATION	18.166	18.246	18.349	18.447	18.536		18.817	18.888	18.937	19.021	19.178	19.258	19.429	19.594	19.737	19.827	20.071	20.261	20.377	20.487	20.653	20.787	21.100	21.317	21.484
	RIGHT BANK GROUND ELEVATION	25.140	24.970	24.810	25.670	25.770		26.520	27.480	26.070	25.900	27.410	26.600	26.650	25.500	26.650	26.440	26.600	27.210	27.370	27.230	29.040	28.040	27.780	29.580	28.050
	LEFT BANK GROUND ELEVATION	25.340	25.480	25.930	25.160	25.140		26.190	25.750	25.200	24.540	25.210	25.860	25.950	26.140	28.450	26.710	26.440	27.170	26.660	27.190	27.510	27.600	28.310	27.950	29.110
	RIVERBED ELEVATION	14.150	13.880	14.310	14.180	11.070		14.420	14.260	14.230	13.770	14.320	13.150	14.810	14.970	17.790	15.200	15.530	15.800	16.050	16.280	16.700	16.860	15.770	16.020	16.470
	ACCUMULATIVE DISTANCE	45607.61	45760.42	45956.84	46141.33	46310.35		46845.18	46979.27	47073.94	47232.03	47530.12	47682.34	48008.75	48320.79	48593.93	48764.04	49227.61	49588.75	49809.06	50018.13	50334.05	50688.29	51182.63	51595.53	51912.36
	DISTANCE	411.52	152.81	196.42	184.49	169.02		534.83	134.09	94.67	158.09	298.09	152.22	326.41	312.04	273.14	170.11	463.57	361.14	220.31	209.07	315.92	254.24	594.34	412.90	316.83
STATION No.	MD313	MD312	MD311	MD310	MD309		MD308	MD307	MD306	MD305	MD304	MD303	MD302	MD301	MD300	MD299	MD298	MD297	MD296	MD295	MD294	MD293	MD292	MD291	MD290	

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	LONGITUDINAL SECTION (8/10)	SHEET NO.
		17
YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN		

LONGITUDINAL SECTION (9/10)

S: V=1/400
H=1/1000

JOB DIVISION No. III L=26,188 km



DESIGN	SLOPE OF LEVEE	$i=1/1900$ $L=14.128$ km																					
	SLOPE OF MAJORBED	$i=1/1900$ $L=21.163$ km																					
	LEVEE ELEVATION	27.270	27.512	27.657	27.783	27.839	27.869	27.869	30.040	30.111	30.304	30.565	31.039	31.195	31.279	31.426	31.629	31.729	31.943	32.055	32.121	32.416	32.729
	WATER LEVEL	26.270	26.512	26.657	26.783	26.839	26.869	26.869	29.040	29.111	29.304	29.565	30.039	30.195	30.279	30.426	30.629	30.729	30.943	31.055	31.121	31.416	31.729
	MAJORBED ELEVATION	21.464	21.739	21.892	22.024	22.062	22.115	22.115	22.115	22.115	22.115	22.115	22.115	22.115	22.115	22.115	22.115	22.115	22.115	22.115	22.115	22.115	22.115
	RIGHT BANK GROUND ELEVATION	28.090	28.670	28.960	24.680	28.950	28.650	35.130	30.260	31.180	31.520	34.540	34.640	31.050	31.650	31.670	33.080	32.400	32.020	33.130	33.650		
	LEFT BANK GROUND ELEVATION	29.110	28.420	28.480	28.700	29.120	28.550	30.210	30.620	30.960	31.760	31.410	31.560	31.960	32.060	31.010	34.430	35.160	31.440	32.620	32.290		
	RIVERBED ELEVATION	16.470	17.250	16.940	17.150	19.050	20.700	18.200	18.860	18.550	18.910	19.100	19.580	20.170	19.860	20.120	20.280	20.640	20.910	20.800	20.930		
	ACCUMULATIVE DISTANCE	51912.36	5212.00	52397.79	52687.86	52938.55	53046.46	53110.71	53245.64	53612.61	54147.16	55009.26	55305.79	55464.58	55743.99	56128.75	56317.92	56724.69	56898.66	57061.2	57621.72	58215.76	
	DISTANCE	316.83	485.43	290.07	250.69	109.91	62.25	134.93	366.57	534.55	862.10	296.53	158.79	279.41	384.76	189.17	406.77	173.97	162.54	560.52	594.04		
STATION No.	MD290	MD289	MD288	MD287	MD286	MD285	MD284	MD283	MD282	MD281	MD280	MD279	MD278	MD277	MD276	MD275	MD274	MD273	MD272	MD271			

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	LONGITUDINAL SECTION (9/10)
YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN	
SHEET NO.	
18	

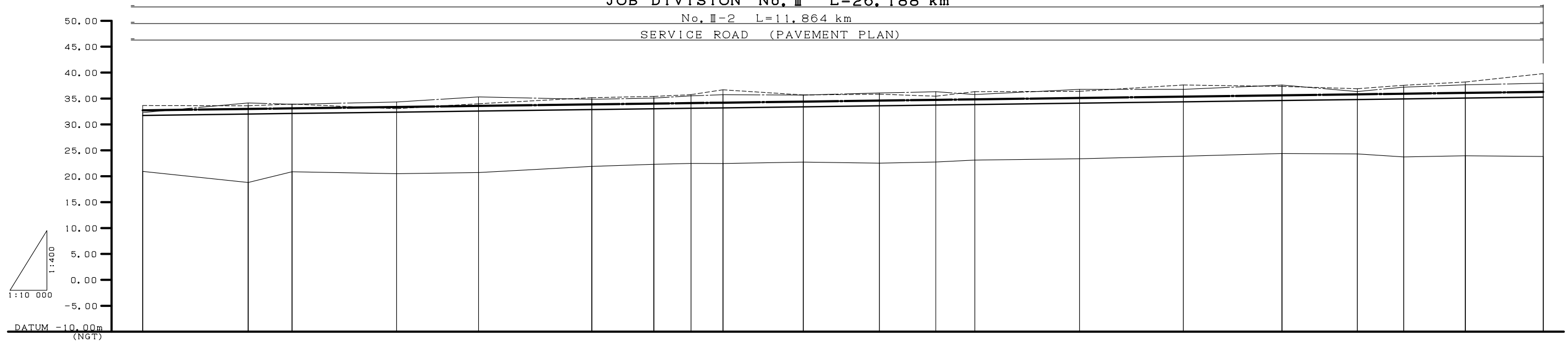
LONGITUDINAL SECTION (10/10)

S: V=1/ 400
H=1/10 000

JOB DIVISION No. III L=26,188 km

No. III-2 L=11,864 km

SERVICE ROAD (PAVEMENT PLAN)



DESIGN	SLOPE OF LEVEE	$i=1/1\ 900$ $L=11.864\ km$																			
	SLOPE OF MAJORBED																				
	LEVEE ELEVATION	32.729	32.997	33.108	33.374	33.582	33.870	34.028	34.123	34.204	34.408	34.601	34.744	34.843	35.109	35.373	35.623	35.814	35.932	36.089	36.287
	WATER LEVEL	31.729	31.997	32.108	32.374	32.582	32.870	33.028	33.123	33.204	33.408	33.601	33.744	33.843	34.109	34.373	34.623	34.814	34.932	35.089	35.287
	MAJORBED ELEVATION																				
RIGHT BANK GROUND ELEVATION	33.650	33.600	33.940	33.040	34.000	35.170	35.410	35.750	36.680	35.680	35.840	35.450	36.330	36.390	37.610	37.340	36.890	37.550	38.190	39.800	
LEFT BANK GROUND ELEVATION	32.290	34.150	33.900	34.340	35.310	34.850	35.090	35.520	35.740	35.670	36.070	36.310	35.780	36.770	36.770	37.600	36.390	37.200	37.650	37.950	
RIVERBED ELEVATION	20.930	18.790	20.870	20.490	20.720	21.900	22.310	22.480	22.470	22.740	22.530	22.750	23.130	23.370	23.860	24.390	24.300	23.740	23.960	23.820	
ACCUMULATIVE DISTANCE	59215.76	59724.98	59936.17	59441.48	59836.29	60882.79	60882.19	60861.85	61015.78	61404.14	61770.88	62043.12	62231.25	62736.88	63237.70	63713.55	64077.06	64300.59	64598.19	64974.36	
DISTANCE	594.04	509.22	211.19	505.31	394.81	546.50	299.40	179.66	153.33	388.36	366.74	272.24	188.13	505.63	500.82	475.85	363.51	223.53	297.6	376.17	
STATION No.	MJ271	MJ270	MJ269	MJ268	MJ267	MJ266	MJ265	MJ264	MJ263	MJ262	MJ261	MJ260	MJ259	MJ258	MJ257	MJ256	MJ255	MJ254	MJ253	MJ252	

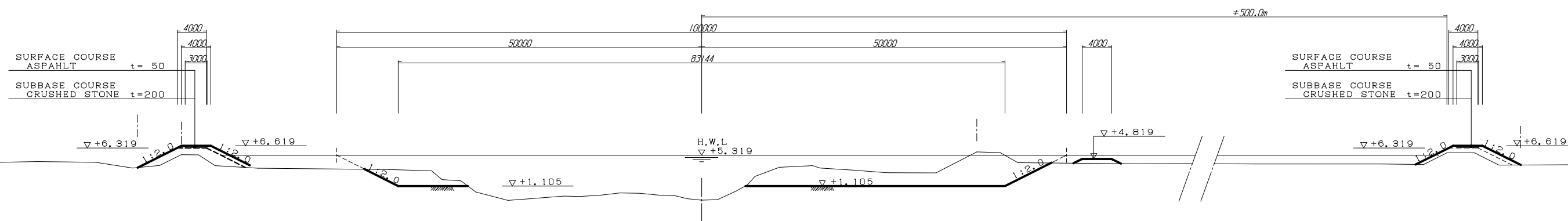
REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE		JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES			
DRAWING TITLE		SHEET NO.	
LONGITUDINAL SECTION (10/10)		19	
YEO YACHIYO ENGINEERING Co.,LTD. TOKYO JAPAN			

TYPICAL CROSS SECTION (1/2)

S=1/300

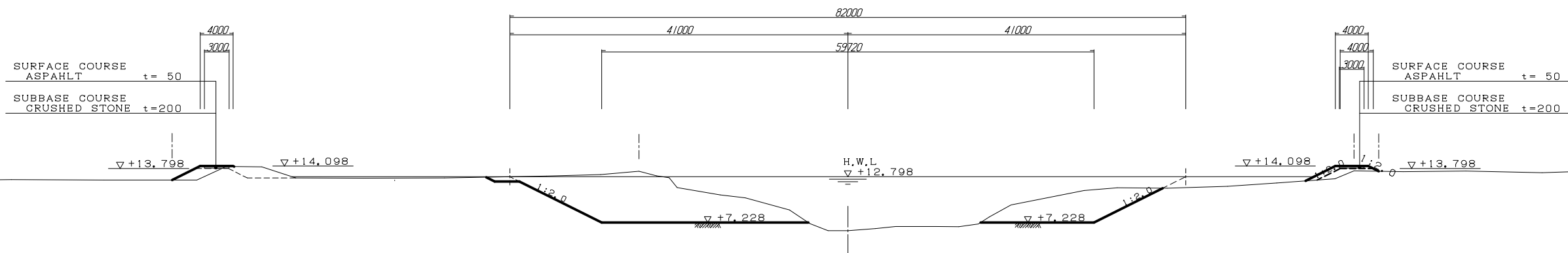
7.633 (MD428)

GH = -0.84
FH = +1.105



22.951 (MD380)

GH = +6.23
FH = +7.228



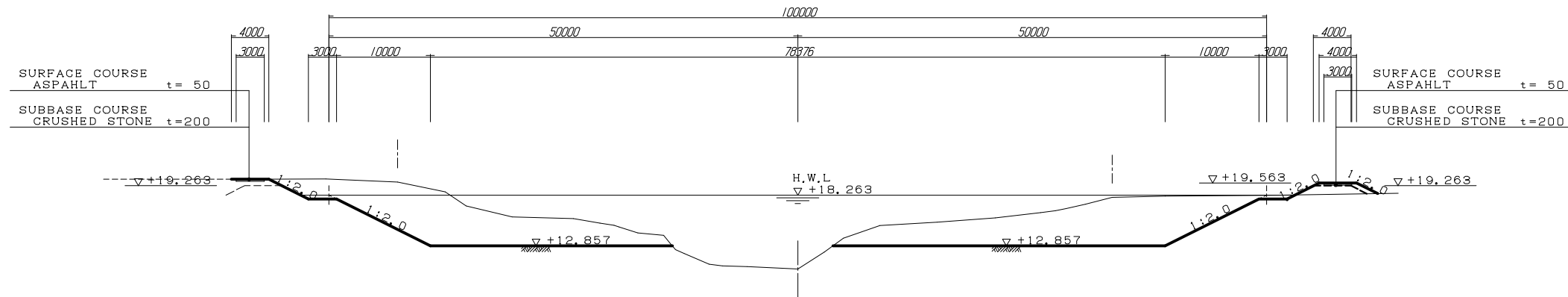
REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE		JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES			
DRAWING TITLE		SHEET NO.	
TYPICAL CROSS SECTION (1/2)		20	
YEO YACHIYO ENGINEERING Co.,LTD, TOKYO JAPAN			

TYPICAL CROSS SECTION (2/2)

S=1/300

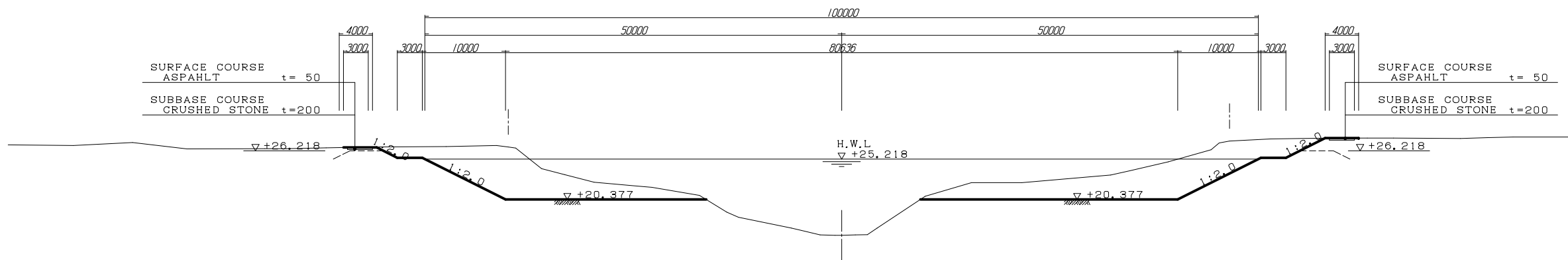
35.521 (MD344)

GH = +10.99
FH = +12.857



49.809 (MD296)

GH = +16.09
FH = +20.377



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE		JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES			
DRAWING TITLE		SHEET NO.	
TYPICAL CROSS SECTION (2/2)		21	
YOE YACHIYO ENGINEERING Co.,LTD, TOKYO JAPAN			

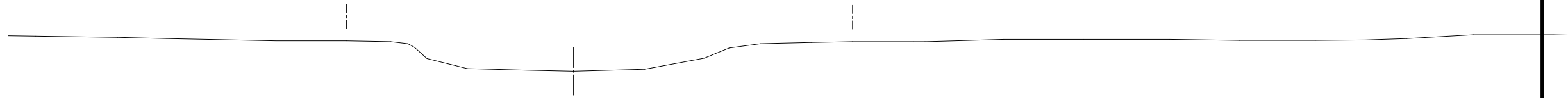
TRANSVERSE SECTION (1/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²		
Embankment	m ²		
Trimming of slope	m		
Stripping	m		
Clearing and grubbing	m		
Land aquisition	m		

0.000 (MD447)

GH = -3.06
FH =

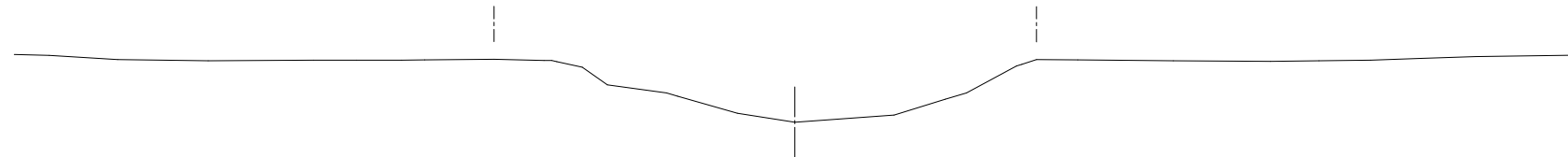


DL=NGT-10.00

	Unit	Left bank	Right bank
Excavation	m ²		
Embankment	m ²		
Trimming of slope	m		
Stripping	m		
Clearing and grubbing	m		
Land aquisition	m		

0.723 (MD445)

GH = -4.26
FH =

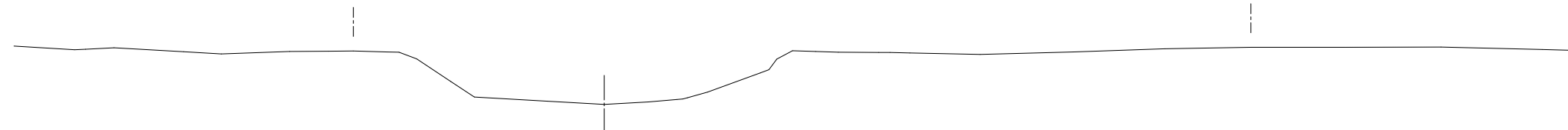


DL=NGT-10.00

	Unit	Left bank	Right bank
Excavation	m ²		
Embankment	m ²		
Trimming of slope	m		
Stripping	m		
Clearing and grubbing	m		
Land aquisition	m		

1.136 (MD444)

GH = -4.23
FH =



DL=NGT-10.00

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE		JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	TRANSVERSE SECTION (1/33)	SHEET NO. 22
Y&E YACHIYO ENGINEERING Co.,LTD, TOKYO JAPAN		

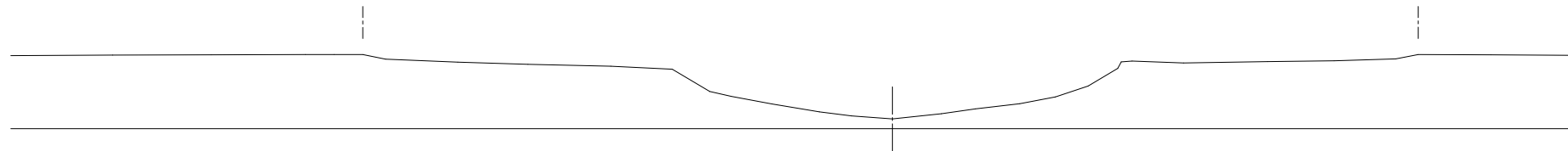
TRANSVERSE SECTION (2/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²		
Embankment	m ²		
Trimming of slope	m		
Stripping	m		
Clearing and grubbing	m		
Land aquisition	m		

1.622 (MD442)

GH = -4.09
FH =

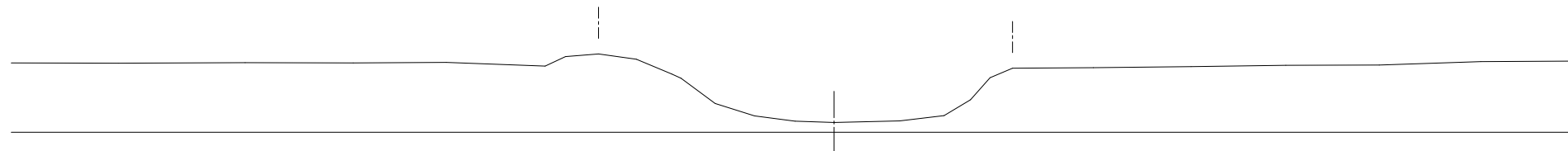


DL=NGT-10.00

	Unit	Left bank	Right bank
Excavation	m ²		
Embankment	m ²		
Trimming of slope	m		
Stripping	m		
Clearing and grubbing	m		
Land aquisition	m		

2.189 (MD440)

GH = -3.05
FH =

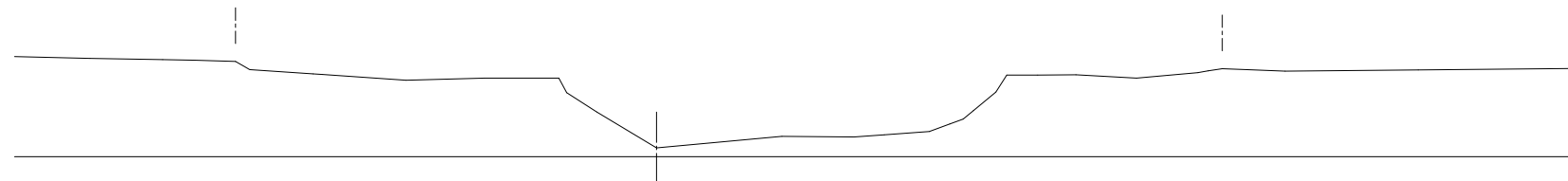


DL=NGT-10.00

	Unit	Left bank	Right bank
Excavation	m ²		
Embankment	m ²		
Trimming of slope	m		
Stripping	m		
Clearing and grubbing	m		
Land aquisition	m		

2.761 (MD438)

GH = -4.26
FH =



DL=NGT-10.00

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (2/33)	23
YEO YACHIYO ENGINEERING Co.,LTD, TOKYO JAPAN	

TRANSVERSE SECTION (3/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²		
Embankment	m ²		
Trimming of slope	m		
Stripping	m		
Clearing and grubbing	m		
Land aquisition	m		

3.738 (MD436)

GH = -3.74
FH =

DL=NGT-10.00

	Unit	Left bank	Right bank
Excavation	m ²	82.3	86.7
Embankment	m ²	11.9	10.3
Trimming of slope	m	14.9	16.3
Stripping	m	49.7	55.9
Clearing and grubbing	m	49.7	55.9
Land aquisition	m	0.0	0.0

4.664 (MD434)

GH = -2.42
FH = -0.458

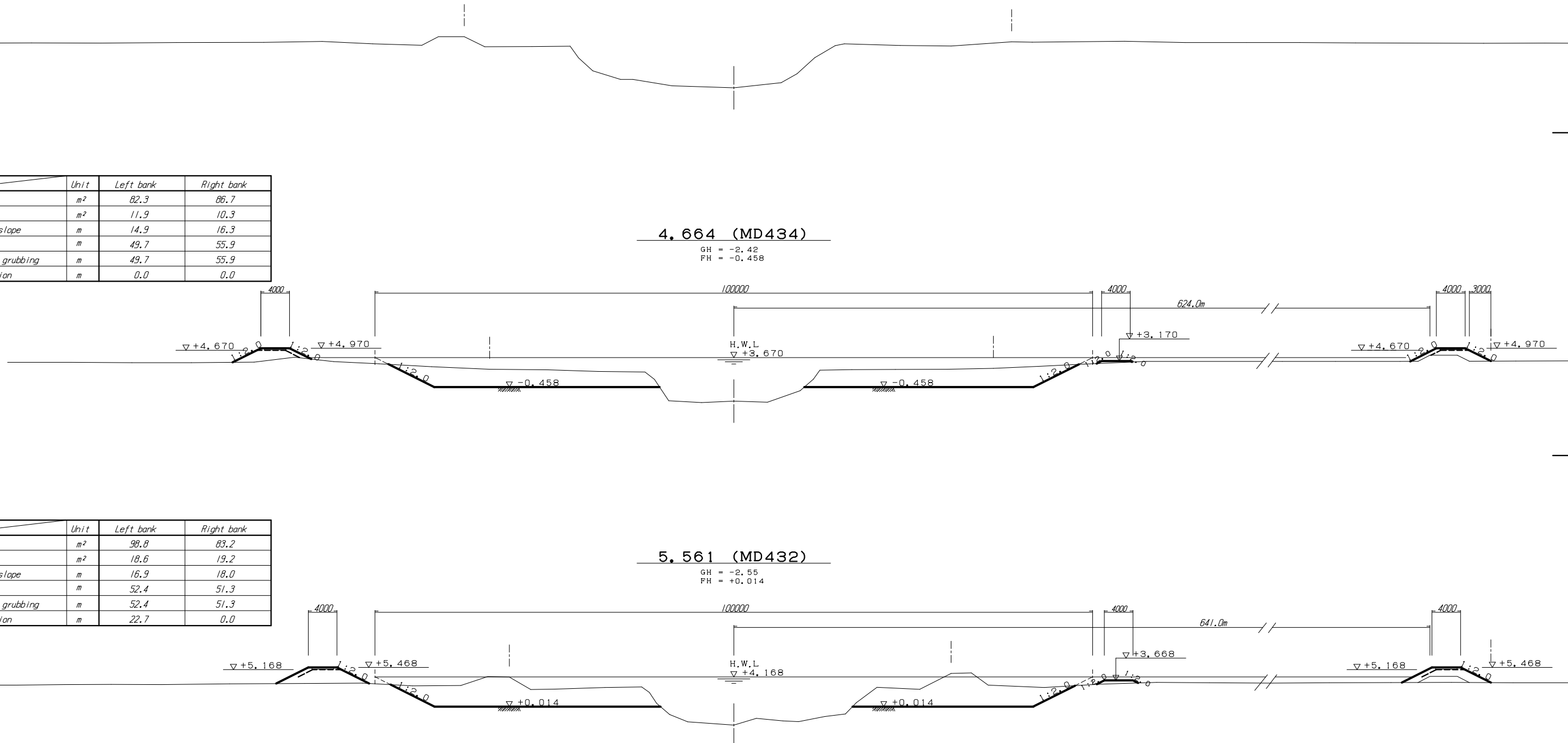
DL=NGT-10.00

	Unit	Left bank	Right bank
Excavation	m ²	98.8	83.2
Embankment	m ²	18.6	19.2
Trimming of slope	m	16.9	18.0
Stripping	m	52.4	51.3
Clearing and grubbing	m	52.4	51.3
Land aquisition	m	22.7	0.0

5.561 (MD432)

GH = -2.55
FH = +0.014

DL=NGT-10.00



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DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (3/33)	24
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

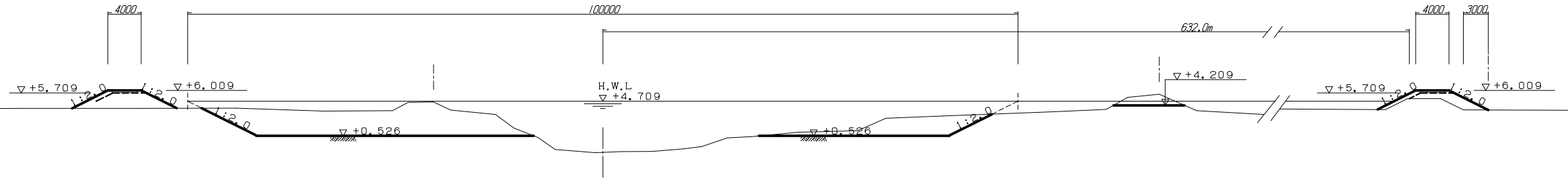
TRANSVERSE SECTION (4/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	108.2	40.3
Embankment	m ²	17.9	11.2
Trimming of slope	m ²	17.1	16.3
Stripping	m	53.8	51.5
Clearing and grubbing	m	53.8	51.5
Land aquisition	m	35.6	0.0

6.534 (MD430)

GH = -1.46
FH = +0.526

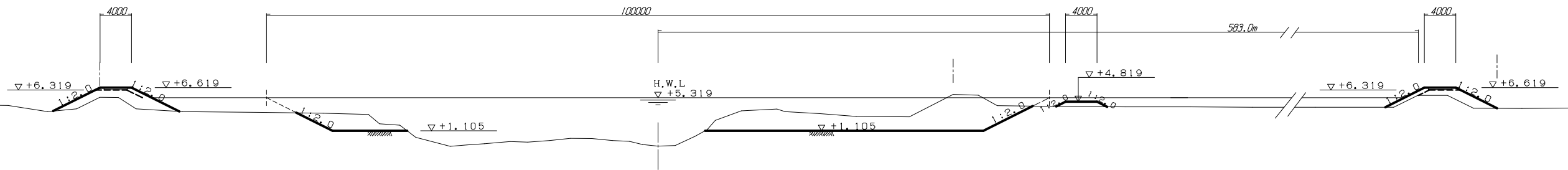


DL=NGT-5.00

	Unit	Left bank	Right bank
Excavation	m ²	19.5	104.0
Embankment	m ²	19.5	12.6
Trimming of slope	m ²	18.6	21.4
Stripping	m	31.7	65.3
Clearing and grubbing	m	31.7	65.3
Land aquisition	m	0.0	0.0

7.633 (MD428)

GH = -0.84
FH = +1.105

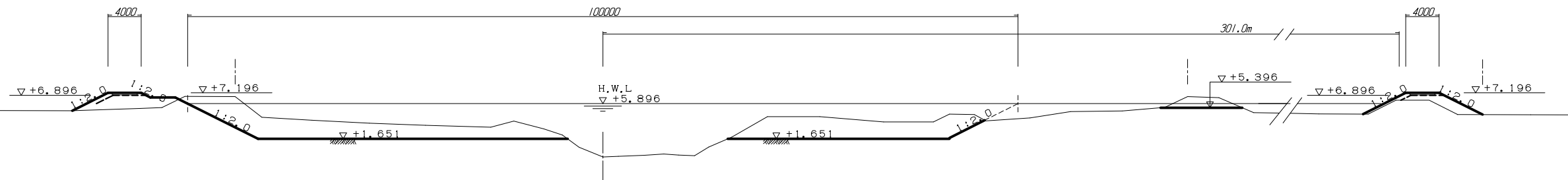


DL=NGT-5.00

	Unit	Left bank	Right bank
Excavation	m ²	89.8	73.9
Embankment	m ²	17.0	11.4
Trimming of slope	m ²	17.2	16.7
Stripping	m	61.4	57.7
Clearing and grubbing	m	61.4	57.7
Land aquisition	m	7.8	0.0

8.671 (MD426)

GH = -0.53
FH = +1.651



DL=NGT-5.00

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
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DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (4/33)	25
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

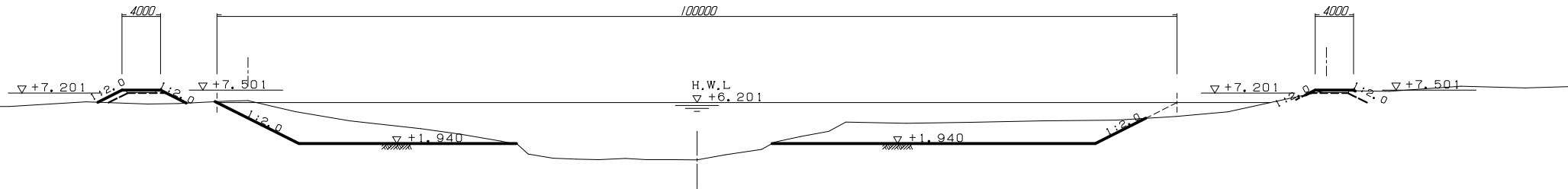
TRANSVERSE SECTION (5/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	53.9	71.9
Embankment	m ²	9.3	0.5
Trimming of slope	m ²	15.6	7.2
Stripping	m	40.6	44.5
Clearing and grubbing	m	40.6	44.5
Land aquisition	m	12.6	0.0

9.219 (MD424)

GH = +0.24
FH = +1.940

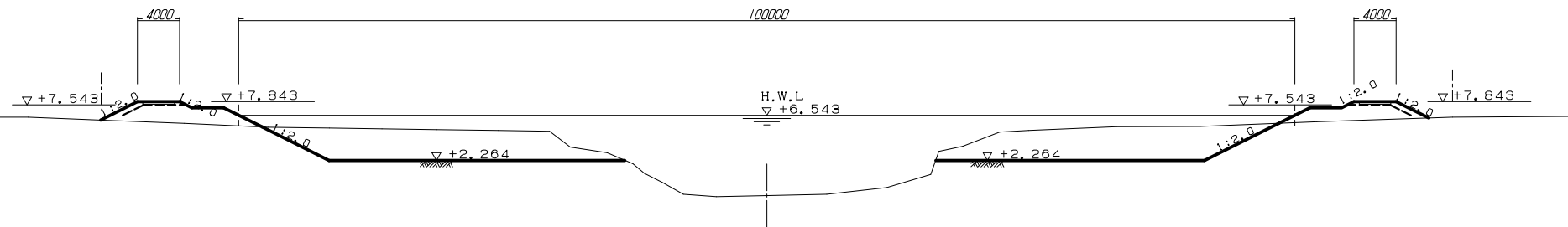


DL=NGT-5.00

	Unit	Left bank	Right bank
Excavation	m ²	78.3	80.4
Embankment	m ²	21.0	17.2
Trimming of slope	m ²	16.4	16.0
Stripping	m	50.3	47.6
Clearing and grubbing	m	50.3	47.6
Land aquisition	m	39.5	47.6

9.836 (MD422)

GH = -1.08
FH = +2.264

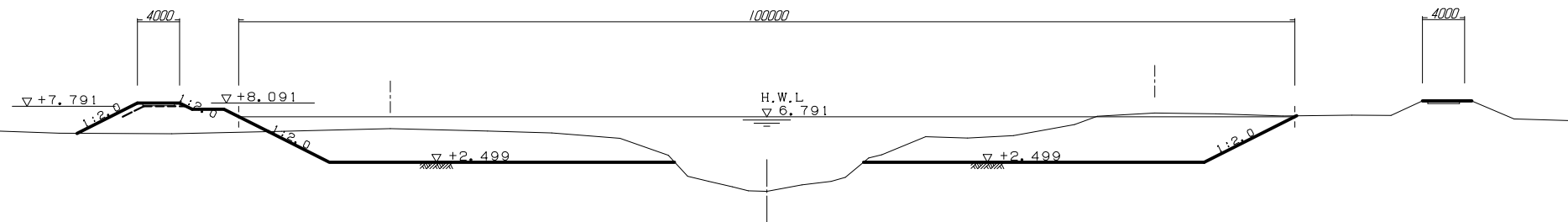


DL=NGT-5.00

	Unit	Left bank	Right bank
Excavation	m ²	95.3	119.5
Embankment	m ²	34.2	0.0
Trimming of slope	m ²	18.9	9.8
Stripping	m	57.1	46.5
Clearing and grubbing	m	57.1	46.5
Land aquisition	m	48.3	0.0

10.283 (MD420)

GH = -0.24
FH = +2.499



DL=NGT-5.00

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
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DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (5/33)	26
YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

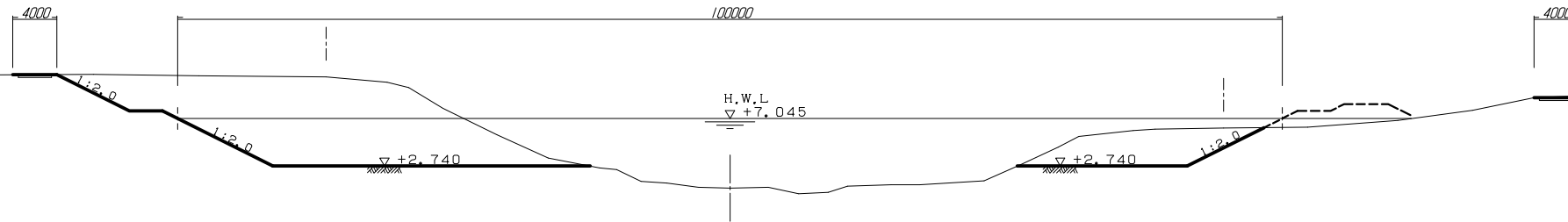
TRANSVERSE SECTION (6/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	222.4	50.3
Embankment	m ²	0.0	0.0
Trimming of slope	m ²	18.5	8.0
Stripping	m	54.0	27.2
Clearing and grubbing	m	54.0	27.2
Land aquisition	m	25.4	1.2

10.740 (MD418)

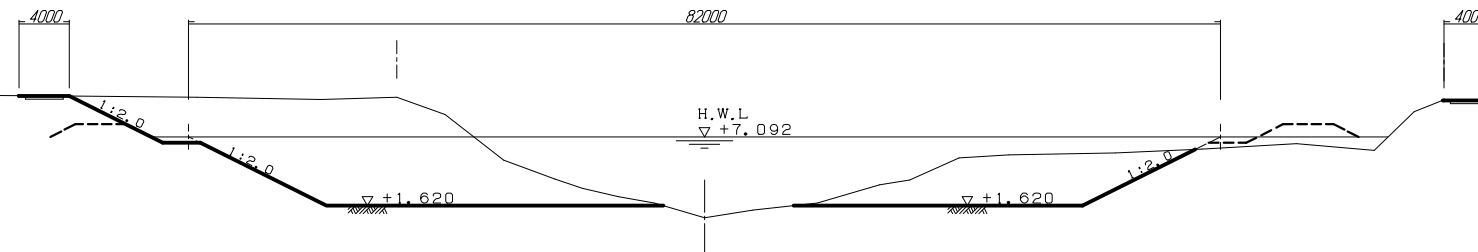
GH = +0.74
FH = +2.704



	Unit	Left bank	Right bank
Excavation	m ²	208.2	78.6
Embankment	m ²	0.0	0.0
Trimming of slope	m ²	0.0	10.0
Stripping	m	53.3	36.7
Clearing and grubbing	m	53.3	36.7
Land aquisition	m	27.1	1.1

10.836 (MD416)

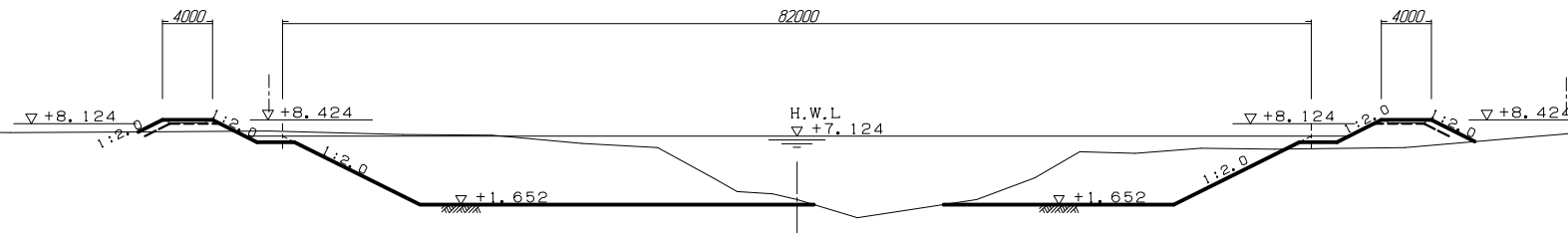
GH = +0.64
FH = +1.620



	Unit	Left bank	Right bank
Excavation	m ²	155.1	69.3
Embankment	m ²	5.5	19.0
Trimming of slope	m ²	17.2	19.1
Stripping	m	54.9	43.4
Clearing and grubbing	m	54.9	43.4
Land aquisition	m	25.2	18.8

10.953 (MD414)

GH = +2.07
FH = +1.652



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
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DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (6/33)	27
YEO YACHIYO ENGINEERING CO.,LTD, TOKYO JAPAN	

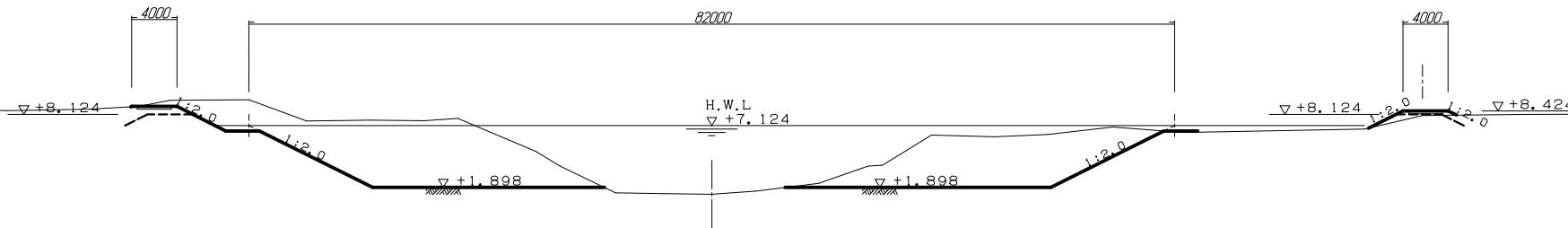
TRANSVERSE SECTION (7/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	140.0	96.7
Embankment	m ²	0.0	3.3
Trimming of slope	m	16.2	15.4
Stripping	m	43.8	42.5
Clearing and grubbing	m	43.8	42.5
Land aquisition	m	7.5	0.0

11.385 (MD412)

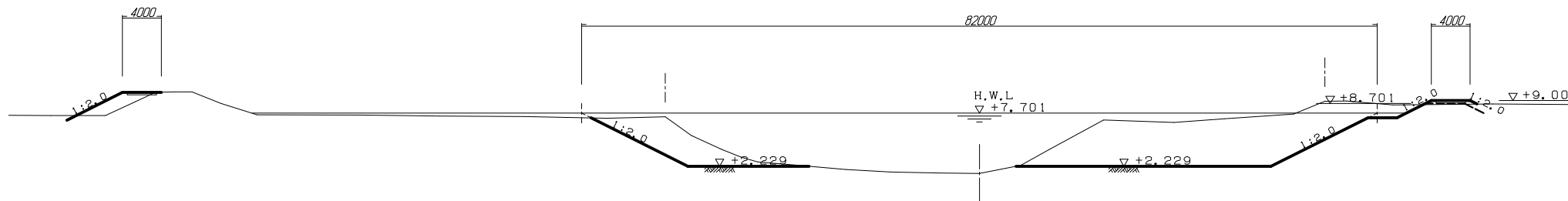
GH = +1.29
FH = +1.898



	Unit	Left bank	Right bank
Excavation	m ²	37.4	145.9
Embankment	m ²	7.6	1.8
Trimming of slope	m	16.5	16.0
Stripping	m	33.0	49.0
Clearing and grubbing	m	33.0	49.0
Land aquisition	m	18.4	12.7

12.046 (MD410)

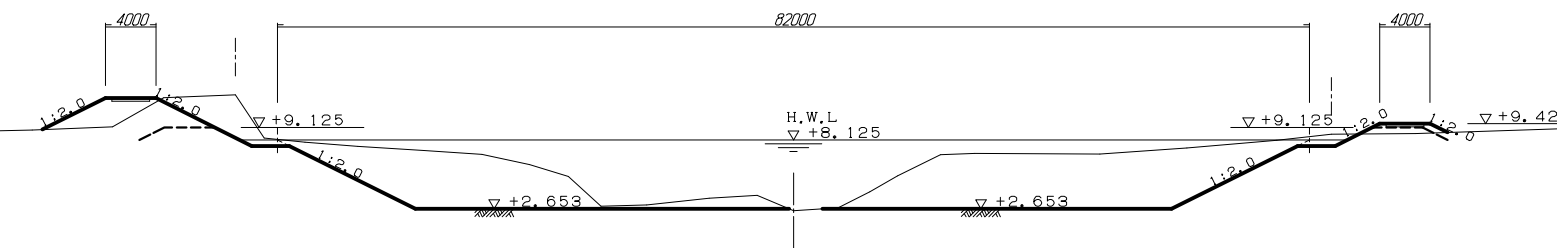
GH = +1.48
FH = +2.229



	Unit	Left bank	Right bank
Excavation	m ²	102.7	129.6
Embankment	m ²	11.7	4.3
Trimming of slope	m	25.3	16.8
Stripping	m	63.3	50.8
Clearing and grubbing	m	63.3	50.8
Land aquisition	m	2.6	6.2

12.894 (MD408)

GH = +2.51
FH = +2.653



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
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DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (7/33)	28
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

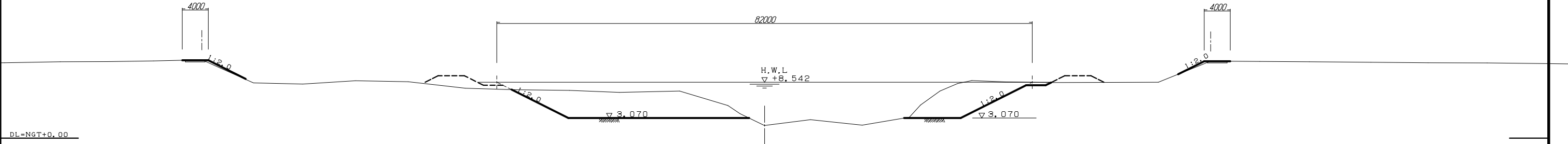
TRANSVERSE SECTION (8/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	112.7	58.5
Embankment	m ²	1.5	0.9
Trimming of slope	m	17.5	16.7
Stripping	m	48.9	32.7
Clearing and grubbing	m	48.9	32.7
Land aquisition	m	0.0	0.0

13.728 (MD406)

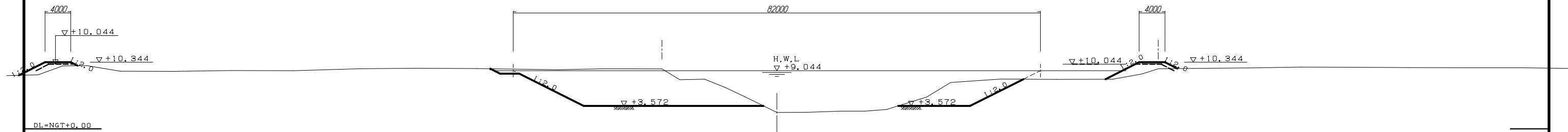
GH = +1.94
FH = +3.070



	Unit	Left bank	Right bank
Excavation	m ²	153.7	40.2
Embankment	m ²	7.6	11.7
Trimming of slope	m	18.6	17.4
Stripping	m	53.3	17.4
Clearing and grubbing	m	53.3	31.7
Land aquisition	m	0.0	0.0

14.733 (MD404)

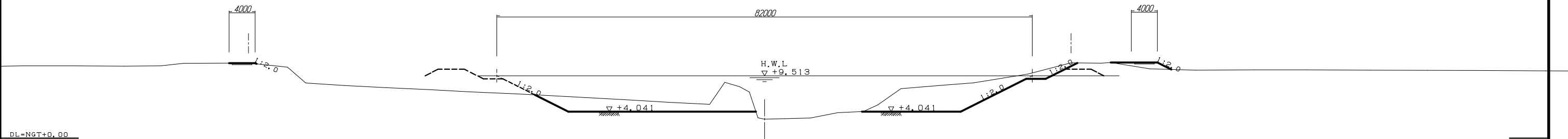
GH = +2.55
FH = +3.572



	Unit	Left bank	Right bank
Excavation	m ²	65.0	75.8
Embankment	m ²	0.1	5.2
Trimming of slope	m	6.0	19.0
Stripping	m	42.3	43.5
Clearing and grubbing	m	42.3	43.5
Land aquisition	m	0.0	0.0

15.671 (MD402)

GH = +2.89
FH = +4.041



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
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DRAWING TITLE	TRANSVERSE SECTION (8/33)	SHEET NO.
		29
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN		

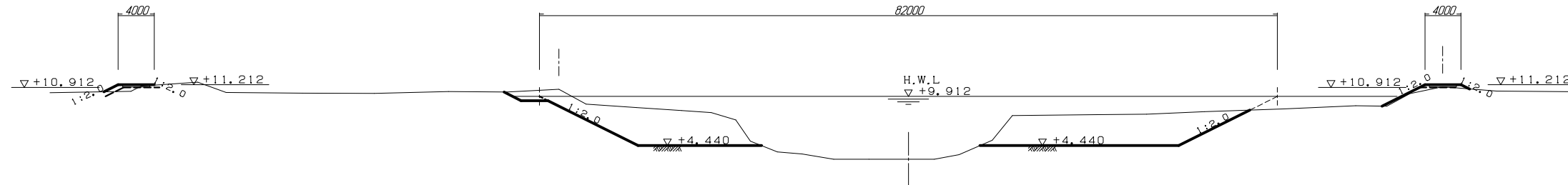
TRANSVERSE SECTION (9/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	72.7	82.9
Embankment	m ²	2.3	3.1
Trimming of slope	m	15.2	15.2
Stripping	m	36.3	41.6
Clearing and grubbing	m	36.3	41.6
Land aquisition	m	0.0	0.0

16.469 (MD400)

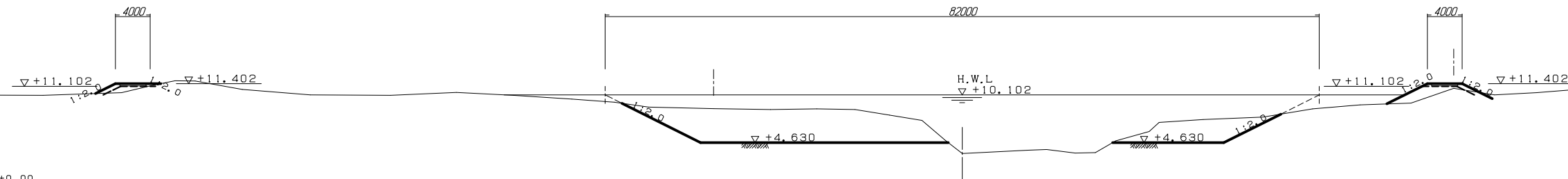
GH = +2.91
FH = +4.440



	Unit	Left bank	Right bank
Excavation	m ²	113.2	32.3
Embankment	m ²	4.3	9.0
Trimming of slope	m	12.7	14.8
Stripping	m	46.1	31.0
Clearing and grubbing	m	46.1	31.0
Land aquisition	m	0.0	0.0

16.849 (MD398)

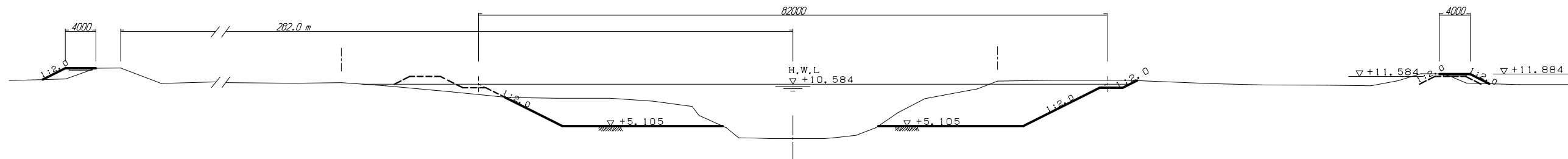
GH = +3.40
FH = +4.630



	Unit	Left bank	Right bank
Excavation	m ²	74.1	113.0
Embankment	m ²	4.9	3.7
Trimming of slope	m	11.7	16.2
Stripping	m	36.6	42.0
Clearing and grubbing	m	36.6	42.0
Land aquisition	m	0.0	0.0

17.858 (MD396)

GH = +3.48
FH = +5.105



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	TRANSVERSE SECTION (9/33)	SHEET NO.
		30
Y&E YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN		

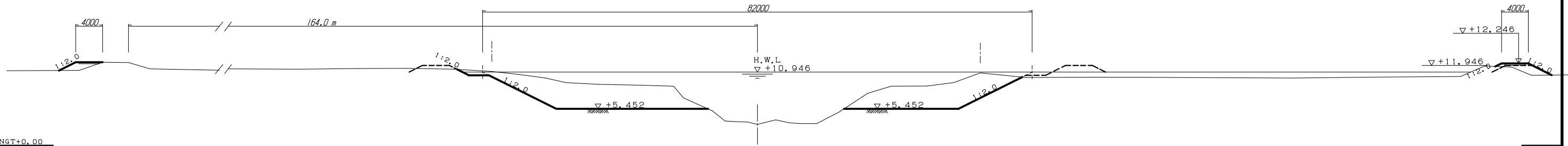
TRANSVERSE SECTION (10/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	99.0	74.4
Embankment	m ²	4.4	6.7
Trimming of slope	m	16.0	15.5
Stripping	m	45.6	36.3
Clearing and grubbing	m	45.6	36.3
Land aquisition	m	0.0	0.0

18.691 (MD394)

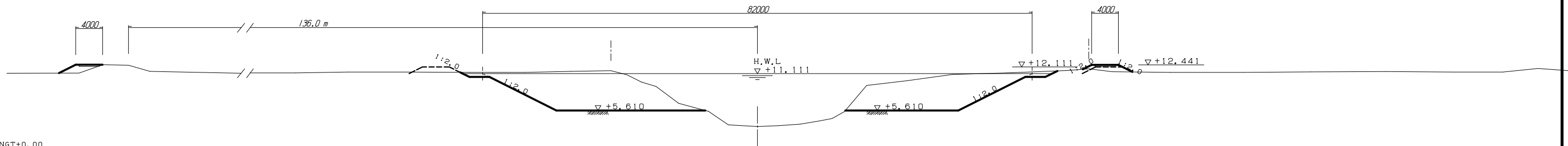
GH = +3.11
FH = +5.452



	Unit	Left bank	Right bank
Excavation	m ²	124.7	101.9
Embankment	m ²	4.4	4.9
Trimming of slope	m	15.5	17.0
Stripping	m	44.8	40.9
Clearing and grubbing	m	44.8	40.9
Land aquisition	m	0.0	0.0

19.096 (MD392)

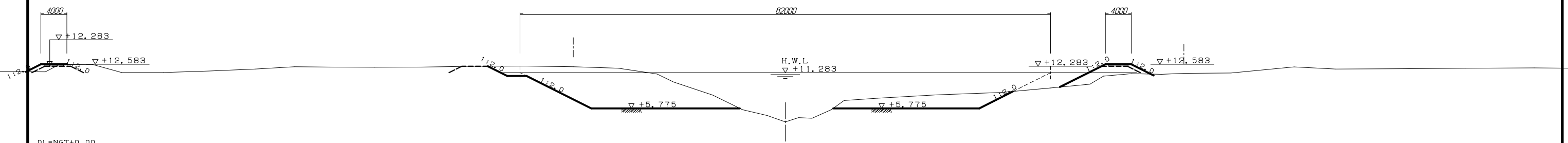
GH = +3.22
FH = +5.610



	Unit	Left bank	Right bank
Excavation	m ²	141.8	45.3
Embankment	m ²	3.5	17.3
Trimming of slope	m	17.3	17.1
Stripping	m	46.8	42.7
Clearing and grubbing	m	46.8	42.7
Land aquisition	m	0.0	0.0

19.465 (MD390)

GH = +3.68
FH = +5.775



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	TRANSVERSE SECTION (10/33)	SHEET NO.
		31
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN		

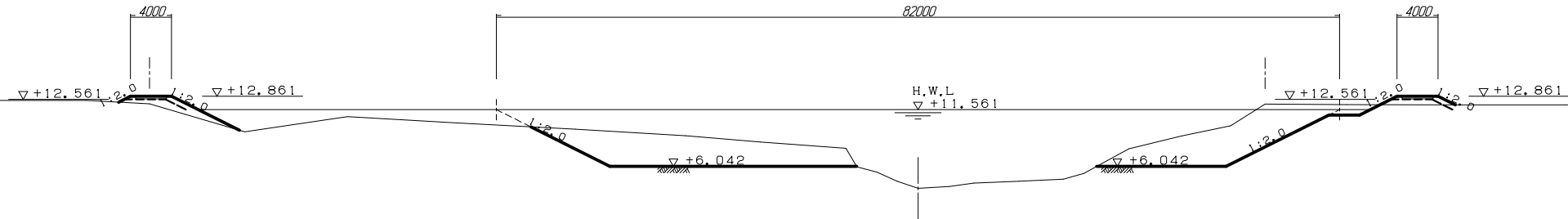
TRANSVERSE SECTION (11/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	74.2	64.5
Embankment	m ²	8.4	4.6
Trimming of slope	m ²	17.3	17.2
Stripping	m	49.9	36.2
Clearing and grubbing	m	49.9	36.2
Land aquisition	m	0.0	15.5

20.105 (MD388)

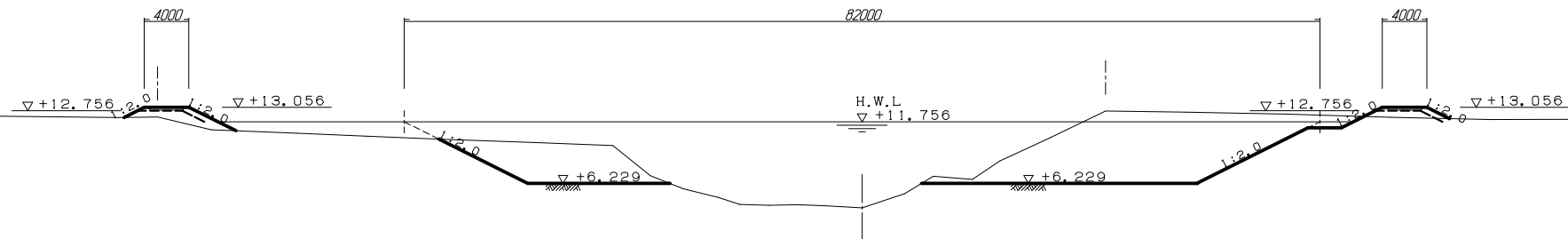
GH = +3.92
FH = +6.042



	Unit	Left bank	Right bank
Excavation	m ²	49.3	139.5
Embankment	m ²	8.9	5.4
Trimming of slope	m ²	15.6	17.6
Stripping	m	32.0	49.0
Clearing and grubbing	m	32.0	49.0
Land aquisition	m	0.0	27.8

20.554 (MD386)

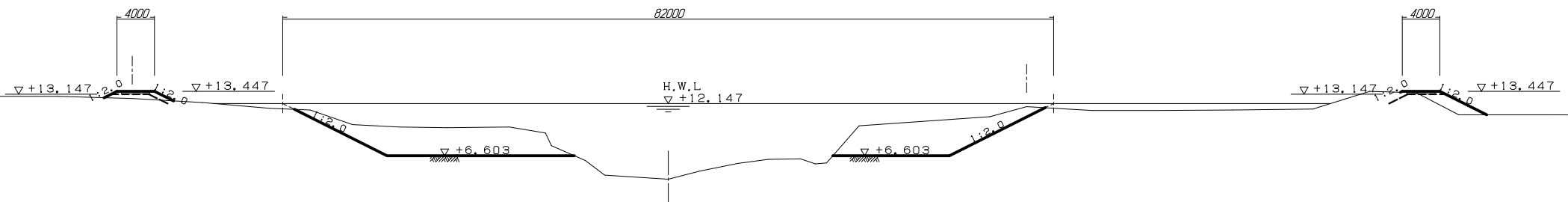
GH = +4.06
FH = +6.229



	Unit	Left bank	Right bank
Excavation	m ²	66.3	57.9
Embankment	m ²	4.6	7.4
Trimming of slope	m ²	14.8	17.2
Stripping	m	38.6	34.0
Clearing and grubbing	m	38.6	34.0
Land aquisition	m	0.0	0.0

21.453 (MD384)

GH = +4.12
FH = +6.603



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
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DRAWING TITLE	TRANSVERSE SECTION (11/33)	SHEET NO.
		32
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN		

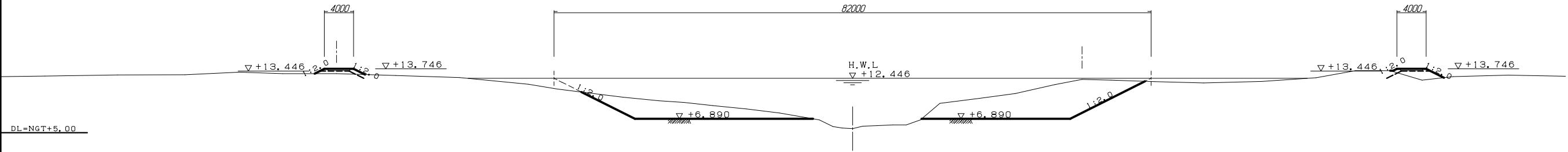
TRANSVERSE SECTION (12/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	49.3	91.8
Embankment	m ²	3.8	6.4
Trimming of slope	m	11.5	14.8
Stripping	m	38.9	39.4
Clearing and grubbing	m	38.9	39.4
Land aquisition	m	0.0	0.0

22.141 (MD382)

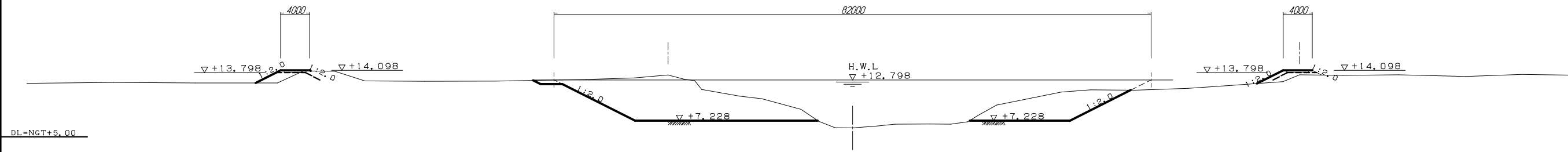
GH = +5.55
FH = +6.890



	Unit	Left bank	Right bank
Excavation	m ²	130.6	52.9
Embankment	m ²	5.4	6.6
Trimming of slope	m	16.3	14.7
Stripping	m	48.4	32.0
Clearing and grubbing	m	48.4	32.0
Land aquisition	m	0.0	0.0

22.951 (MD380)

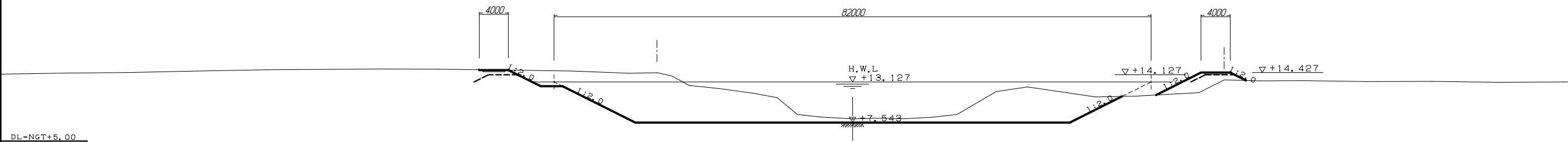
GH = +6.23
FH = +7.228



	Unit	Left bank	Right bank
Excavation	m ²	168.1	83.1
Embankment	m ²	0.0	16.2
Trimming of slope	m	16.3	17.3
Stripping	m	52.7	50.9
Clearing and grubbing	m	52.7	50.9
Land aquisition	m	21.5	0.0

23.708 (MD378)

GH = +8.04
FH = +7.543



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
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DRAWING TITLE	TRANSVERSE SECTION (12/33)	SHEET NO.
		33
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN		

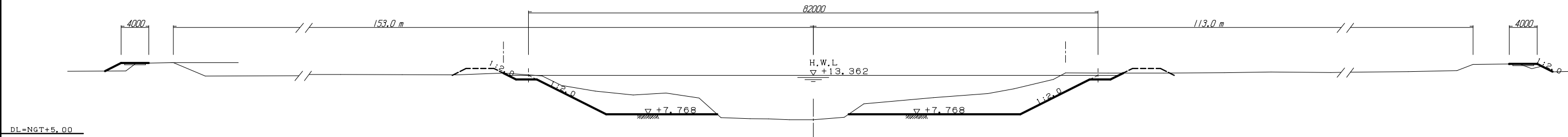
TRANSVERSE SECTION (13/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	60.2	87.9
Embankment	m ²	3.0	1.3
Trimming of slope	m	15.9	15.8
Stripping	m	39.0	47.1
Clearing and grubbing	m	39.0	47.1
Land aquisition	m	0.0	0.0

24.248 (MD376)

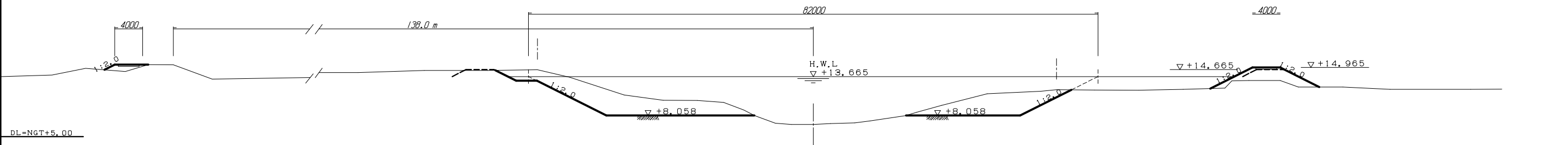
GH = +6.98
FH = +7.768



	Unit	Left bank	Right bank
Excavation	m ²	81.0	46.8
Embankment	m ²	3.7	19.4
Trimming of slope	m	16.5	21.4
Stripping	m	44.8	40.5
Clearing and grubbing	m	44.8	40.5
Land aquisition	m	0.0	0.0

24.944 (MD374)

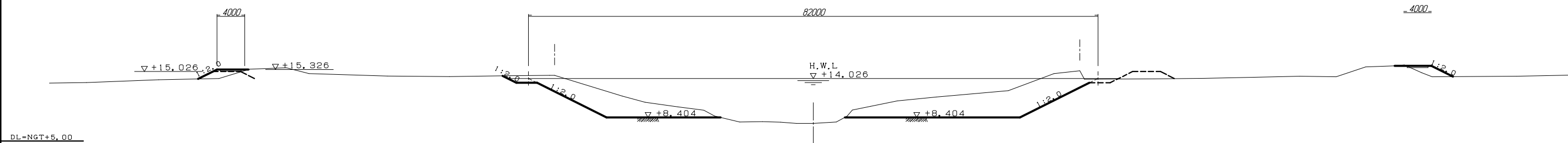
GH = +6.76
FH = +8.058



	Unit	Left bank	Right bank
Excavation	m ²	62.1	104.5
Embankment	m ²	4.9	5.3
Trimming of slope	m	16.4	15.9
Stripping	m	39.7	49.9
Clearing and grubbing	m	39.7	49.9
Land aquisition	m	0.0	0.0

25.774 (MD372)

GH = +7.53
FH = +8.404



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
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DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (13/33)	34
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

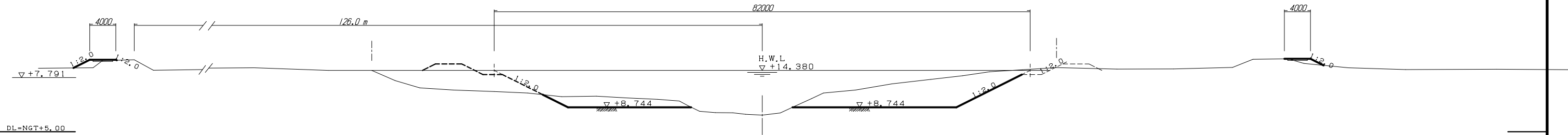
TRANSVERSE SECTION (14/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	26.2	106.5
Embankment	m ²	3.3	2.4
Trimming of slope	m	7.2	15.7
Stripping	m	30.0	47.0
Clearing and grubbing	m	30.0	47.0
Land aquisition	m	0.0	0.0

26.590 (MD370)

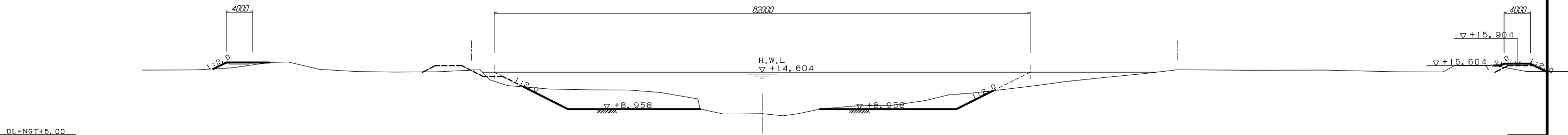
GH = +7.54
FH = +8.744



	Unit	Left bank	Right bank
Excavation	m ²	62.3	24.0
Embankment	m ²	4.1	5.4
Trimming of slope	m	9.8	9.6
Stripping	m	37.0	34.6
Clearing and grubbing	m	37.0	34.6
Land aquisition	m	0.0	0.0

27.105 (MD368)

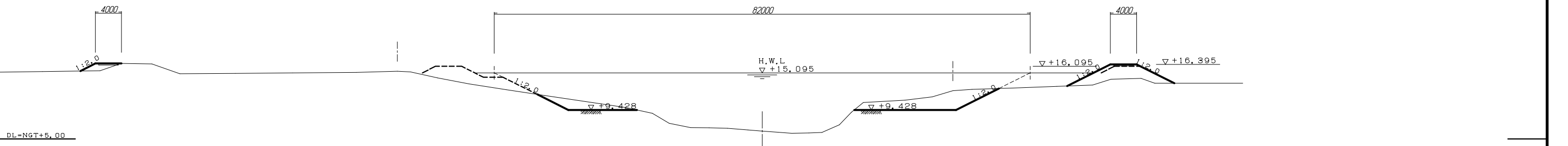
GH = +8.26
FH = +8.958



	Unit	Left bank	Right bank
Excavation	m ²	13.2	35.6
Embankment	m ²	3.9	25.1
Trimming of slope	m	7.9	21.2
Stripping	m	21.8	39.4
Clearing and grubbing	m	21.8	39.4
Land aquisition	m	0.0	0.0

28.232 (MD366)

GH = +6.18
FH = +9.428



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (14/33)	35
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

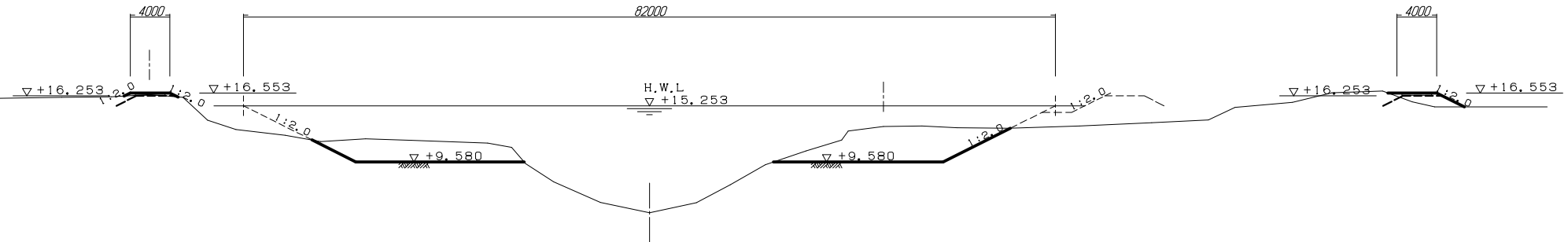
TRANSVERSE SECTION (15/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	38.1	54.8
Embankment	m ²	1.2	5.9
Trimming of slope	m	6.6	10.7
Stripping	m	27.7	32.7
Clearing and grubbing	m	27.7	32.7
Land aquisition	m	2.9	0.0

28.596 (MD364)

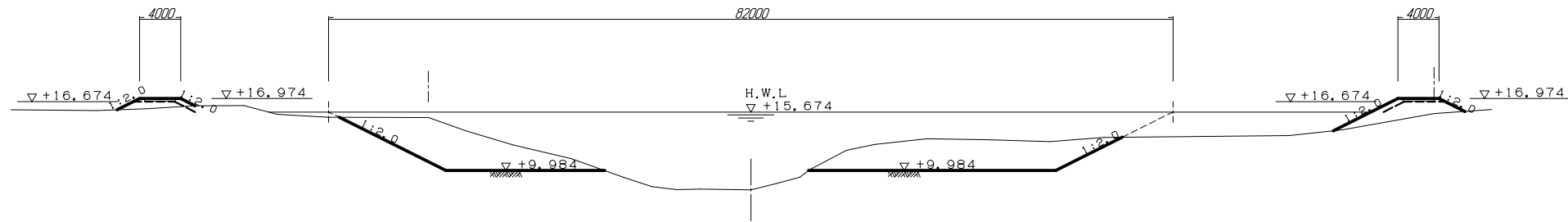
GH = +4.44
FH = +15.253



	Unit	Left bank	Right bank
Excavation	m ²	60.6	70.6
Embankment	m ²	5.2	15.5
Trimming of slope	m	15.5	17.0
Stripping	m	34.2	44.0
Clearing and grubbing	m	34.2	44.0
Land aquisition	m	0.0	0.0

29.566 (MD362)

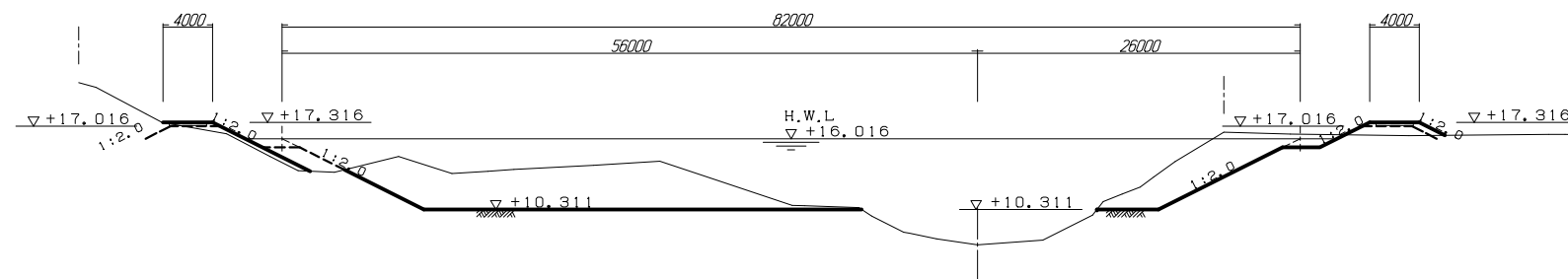
GH = +8.12
FH = +15.674



	Unit	Left bank	Right bank
Excavation	m ²	102.3	40.0
Embankment	m ²	4.6	6.2
Trimming of slope	m	15.9	18.0
Stripping	m	55.3	29.8
Clearing and grubbing	m	55.3	29.8
Land aquisition	m	0.0	14.8

30.351 (MD360)

GH = +7.47
FH = +16.016



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (15/33)	36
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

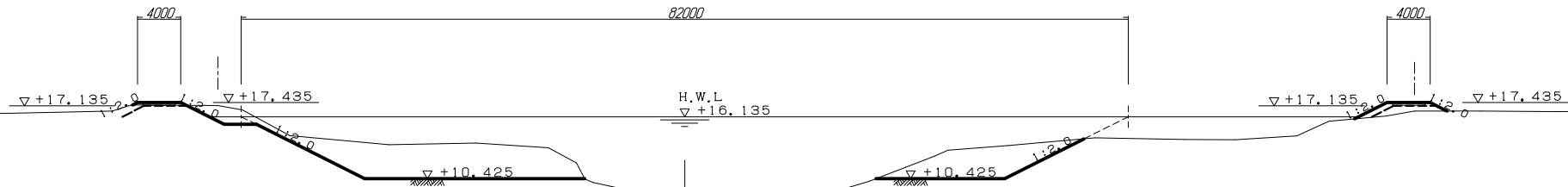
TRANSVERSE SECTION (16/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	81.6	34.5
Embankment	m ²	1.1	6.0
Trimming of slope	m	16.2	13.3
Stripping	m	43.8	28.4
Clearing and grubbing	m	43.8	28.4
Land aquisition	m	0.0	0.0

30.625 (MD358)

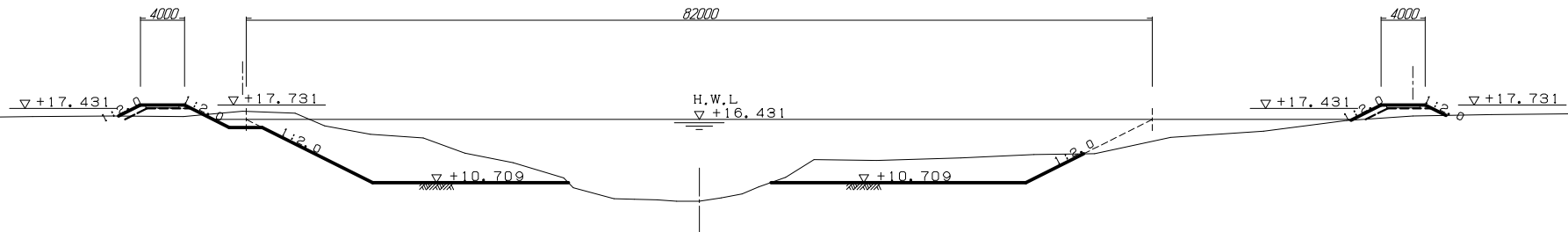
GH = +9.14
FH = +10.425



	Unit	Left bank	Right bank
Excavation	m ²	82.8	52.5
Embankment	m ²	6.0	6.7
Trimming of slope	m	17.9	11.0
Stripping	m	41.8	37.5
Clearing and grubbing	m	41.8	37.5
Land aquisition	m	0.0	0.0

31.306 (MD356)

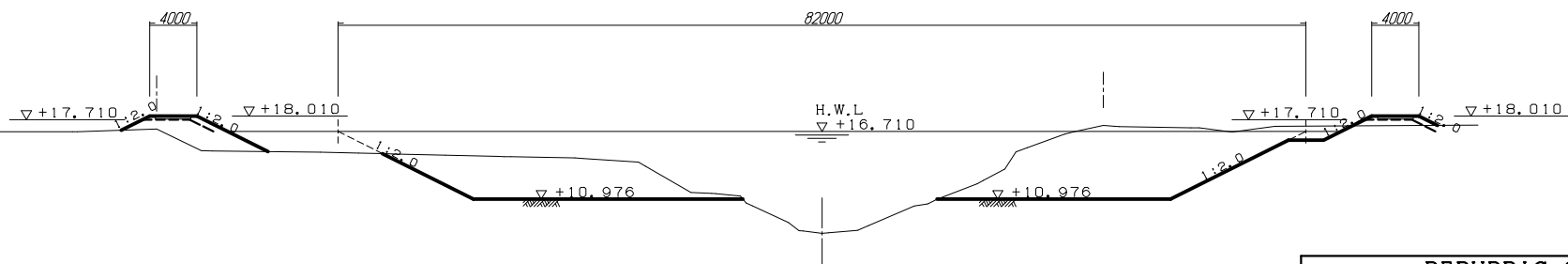
GH = +9.05
FH = +10.709



	Unit	Left bank	Right bank
Excavation	m ²	72.8	123.2
Embankment	m ²	17.3	4.5
Trimming of slope	m	18.0	17.5
Stripping	m	44.3	44.1
Clearing and grubbing	m	44.3	44.1
Land aquisition	m	0.0	25.3

31.948 (MD354)

GH = +8.09
FH = +10.976



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (16/33)	37
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

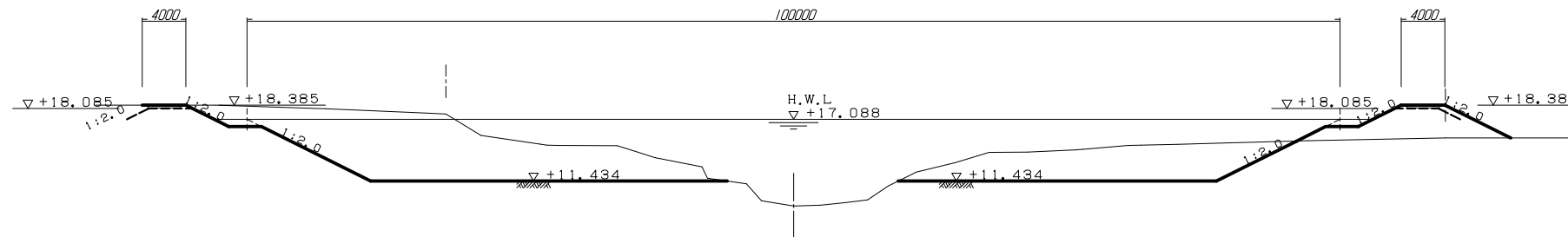
TRANSVERSE SECTION (17/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	171.7	87.7
Embankment	m ²	0.0	35.1
Trimming of slope	m	15.6	22.3
Stripping	m	55.5	56.5
Clearing and grubbing	m	55.5	56.5
Land aquisition	m	24.8	3.0

32.817 (MD352)

GH = +9.16
FH = +11.434

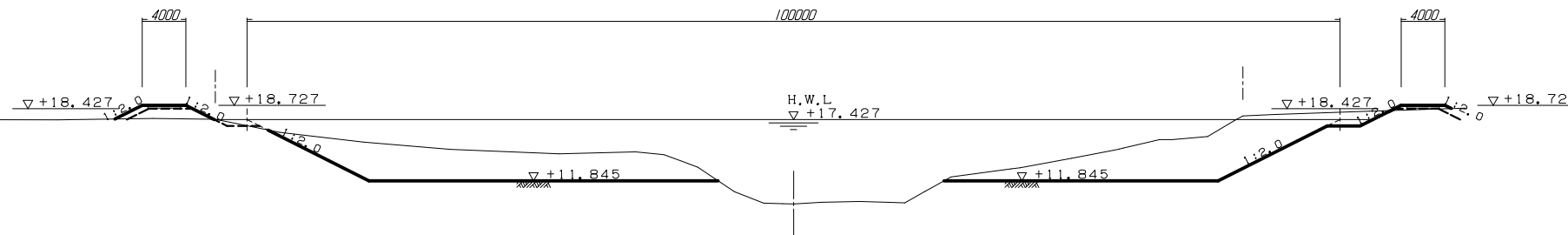


DL=NGT+10.00

	Unit	Left bank	Right bank
Excavation	m ²	96.7	96.4
Embankment	m ²	7.9	1.8
Trimming of slope	m	16.0	16.0
Stripping	m	50.9	47.3
Clearing and grubbing	m	50.9	47.3
Land aquisition	m	6.2	16.1

33.598 (MD350)

GH = +9.73
FH = +11.845

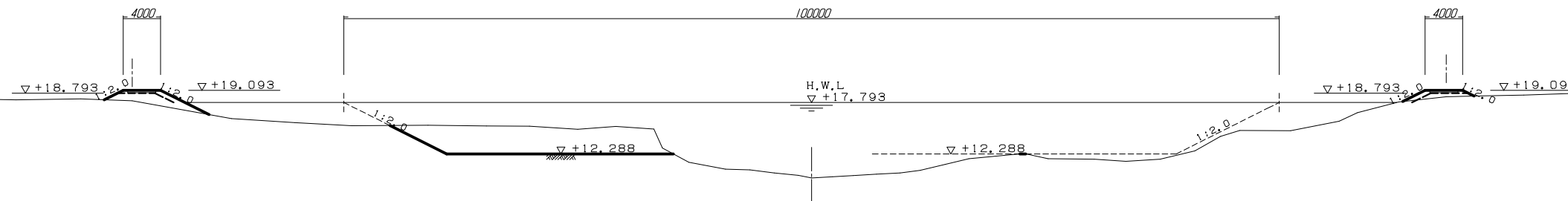


DL=NGT+10.00

	Unit	Left bank	Right bank
Excavation	m ²	75.0	0.0
Embankment	m ²	10.7	4.4
Trimming of slope	m	14.9	4.1
Stripping	m	43.1	7.6
Clearing and grubbing	m	43.1	7.6
Land aquisition	m	0.0	0.0

34.440 (MD348)

GH = +9.71
FH = +12.288



DL=NGT+10.00

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (17/33)	38
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

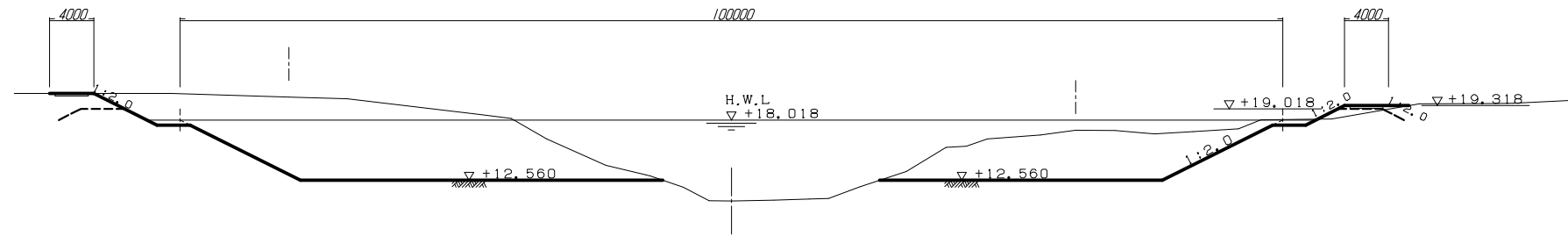
TRANSVERSE SECTION (18/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	229.1	110.8
Embankment	m ²	0.0	4.3
Trimming of slope	m	17.6	15.1
Stripping	m	56.9	49.2
Clearing and grubbing	m	56.9	49.2
Land aquisition	m	24.0	10.5

34.957 (MD346)

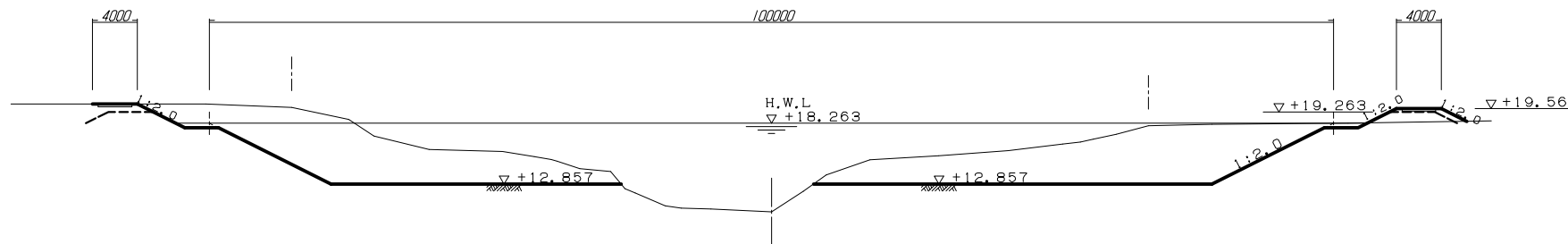
GH = +10.68
FH = +12.560



	Unit	Left bank	Right bank
Excavation	m ²	131.1	145.4
Embankment	m ²	0.0	7.7
Trimming of slope	m	15.9	17.5
Stripping	m	48.5	58.8
Clearing and grubbing	m	48.5	58.8
Land aquisition	m	14.7	25.3

35.521 (MD344)

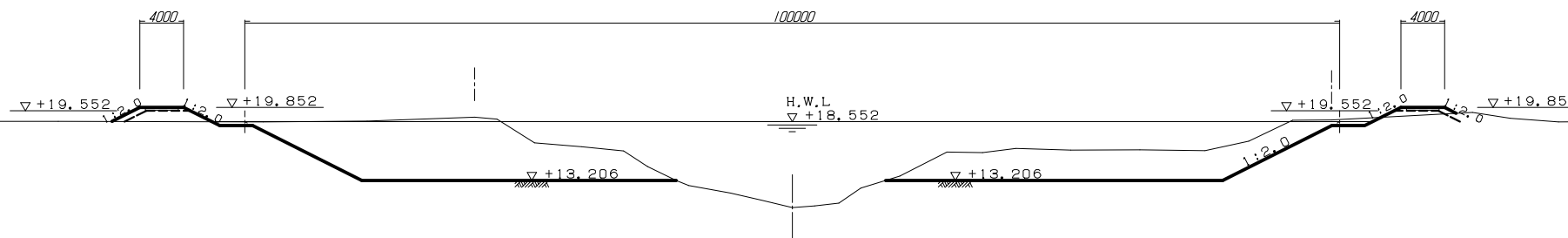
GH = +10.39
FH = +12.857



	Unit	Left bank	Right bank
Excavation	m ²	145.2	99.2
Embankment	m ²	8.4	3.8
Trimming of slope	m	17.7	16.1
Stripping	m	52.9	53.2
Clearing and grubbing	m	52.9	53.2
Land aquisition	m	30.1	11.9

36.184 (MD342)

GH = +10.74
FH = +13.206



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (18/33)	39
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

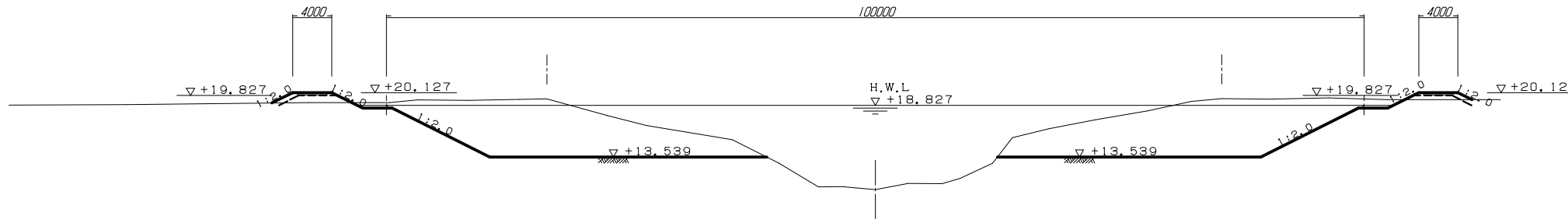
TRANSVERSE SECTION (19/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	140.7	152.6
Embankment	m ²	6.2	3.9
Trimming of slope	m	17.2	16.4
Stripping	m	51.6	49.9
Clearing and grubbing	m	51.6	49.9
Land aquisition	m	25.0	22.6

36.818 (MD340)

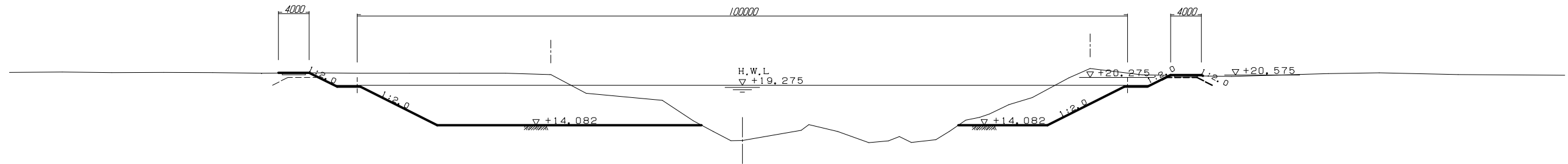
GH = +10.20
FH = +13.539



	Unit	Left bank	Right bank
Excavation	m ²	219.1	73.7
Embankment	m ²	0.1	0.2
Trimming of slope	m	15.3	14.7
Stripping	m	56.6	33.4
Clearing and grubbing	m	56.6	33.4
Land aquisition	m	32.4	11.5

37.848 (MD338)

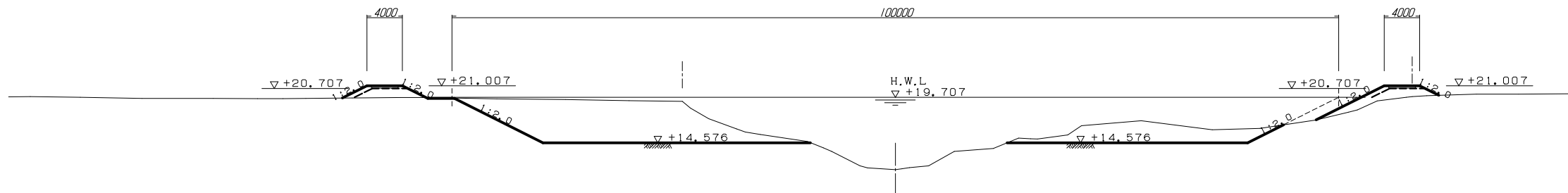
GH = +12.08
FH = +14.082



	Unit	Left bank	Right bank
Excavation	m ²	125.3	45.5
Embankment	m ²	9.0	13.5
Trimming of slope	m	17.5	15.5
Stripping	m	53.8	46.0
Clearing and grubbing	m	53.8	46.0
Land aquisition	m	35.3	0.0

38.787 (MD336)

GH = +11.55
FH = +14.576



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (19/33)	40
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

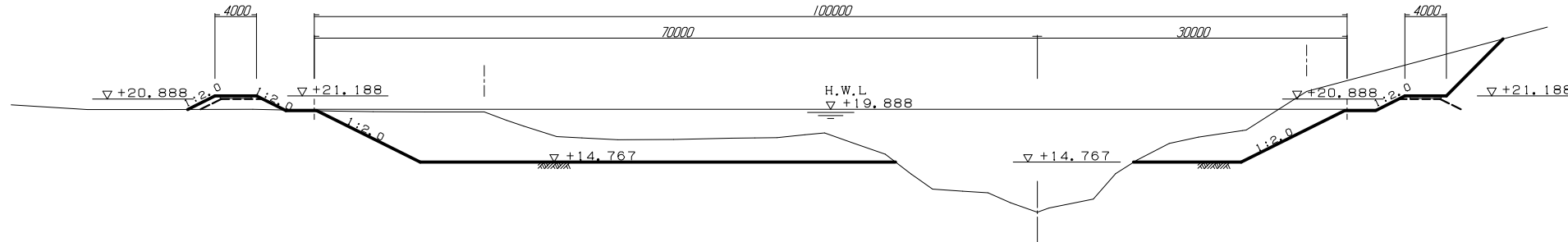
TRANSVERSE SECTION (20/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	151.4	97.2
Embankment	m ²	8.7	0.0
Trimming of slope	m	17.3	22.2
Stripping	m	69.1	38.1
Clearing and grubbing	m	69.1	38.1
Land aquisition	m	30.7	9.2

39.150 (MD334)

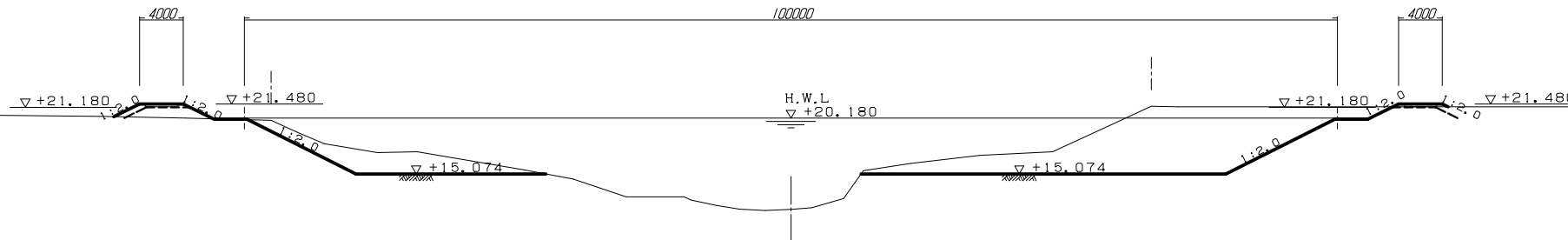
GH = +9.91
FH = +14.767



	Unit	Left bank	Right bank
Excavation	m ²	35.4	143.5
Embankment	m ²	8.2	1.2
Trimming of slope	m	16.8	14.9
Stripping	m	38.9	54.9
Clearing and grubbing	m	38.9	54.9
Land aquisition	m	11.4	24.2

39.733 (MD332)

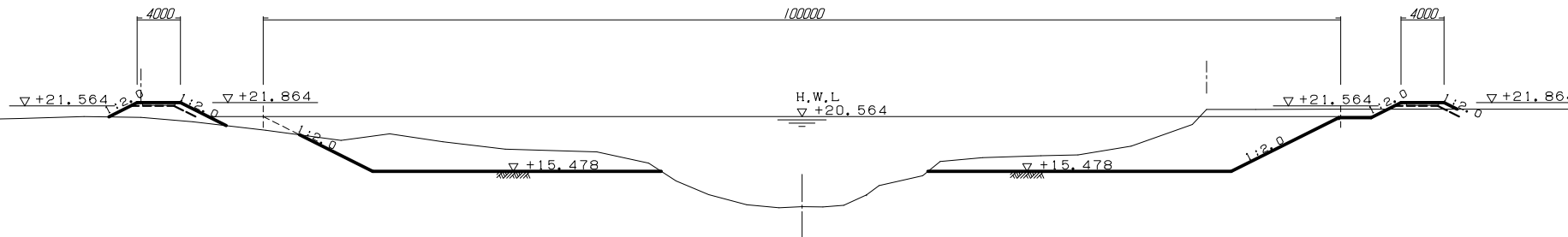
GH = +11.840
FH = +15.074



	Unit	Left bank	Right bank
Excavation	m ²	67.5	101.4
Embankment	m ²	11.3	3.1
Trimming of slope	m	15.3	15.7
Stripping	m	45.0	50.5
Clearing and grubbing	m	45.0	50.5
Land aquisition	m	0.0	20.2

40.500 (MD330)

GH = +12.20
FH = +15.478



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
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DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (20/33)	41
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

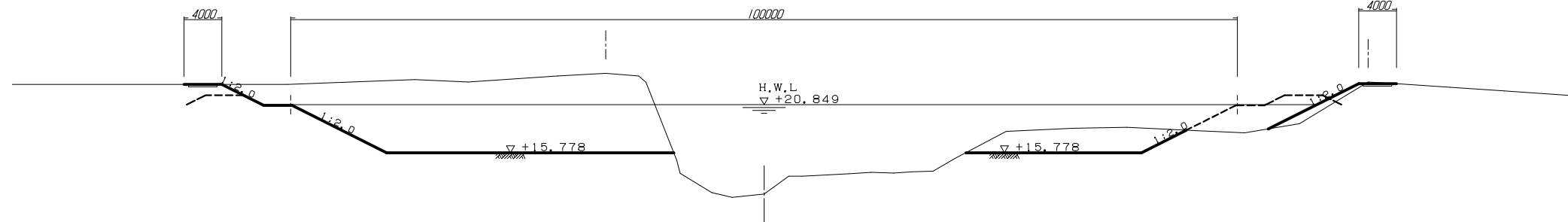
TRANSVERSE SECTION (21/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	287.2	47.3
Embankment	m ²	0.0	6.7
Trimming of slope	m	16.1	16.0
Stripping	m	57.1	38.7
Clearing and grubbing	m	57.1	38.7
Land aquisition	m	45.0	0.0

41.071 (MD328)

GH = +11.41
FH = +15.778

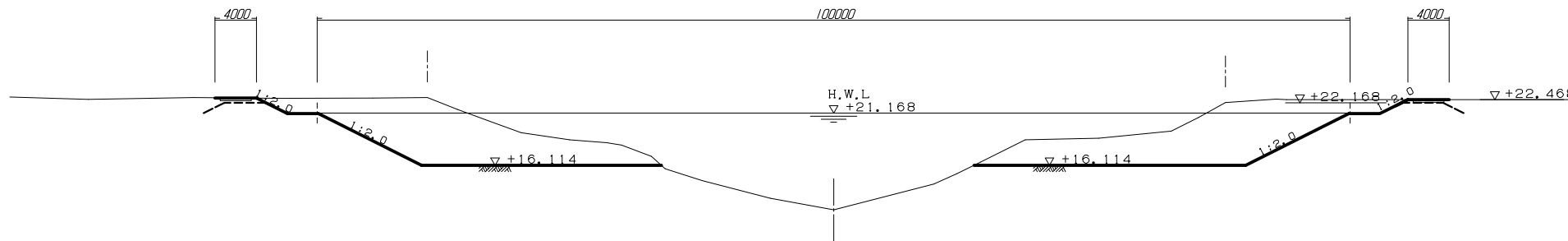


DL=NGT+10.00

	Unit	Left bank	Right bank
Excavation	m ²	123.2	125.9
Embankment	m ²	0.0	0.0
Trimming of slope	m	14.7	14.2
Stripping	m	44.5	47.4
Clearing and grubbing	m	44.5	47.4
Land aquisition	m	17.6	18.7

41.709 (MD326)

GH = +11.80
FH = +16.114

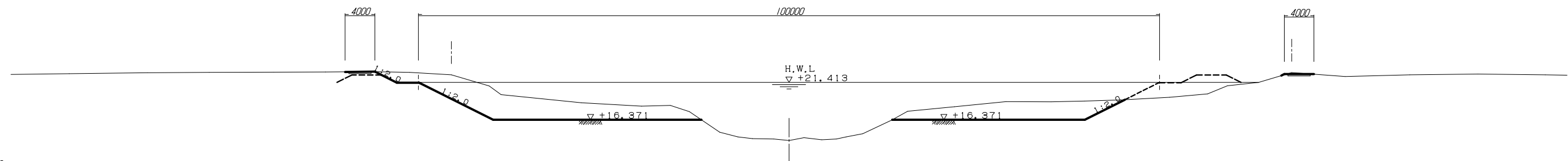


DL=NGT+10.00

	Unit	Left bank	Right bank
Excavation	m ²	101.2	58.5
Embankment	m ²	0.0	0.0
Trimming of slope	m	14.6	6.4
Stripping	m	49.3	36.2
Clearing and grubbing	m	49.3	36.2
Land aquisition	m	11.3	0.0

42.198 (MD324)

GH = +13.58
FH = +16.371



DL=NGT+10.00

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DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (21/33)	42
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

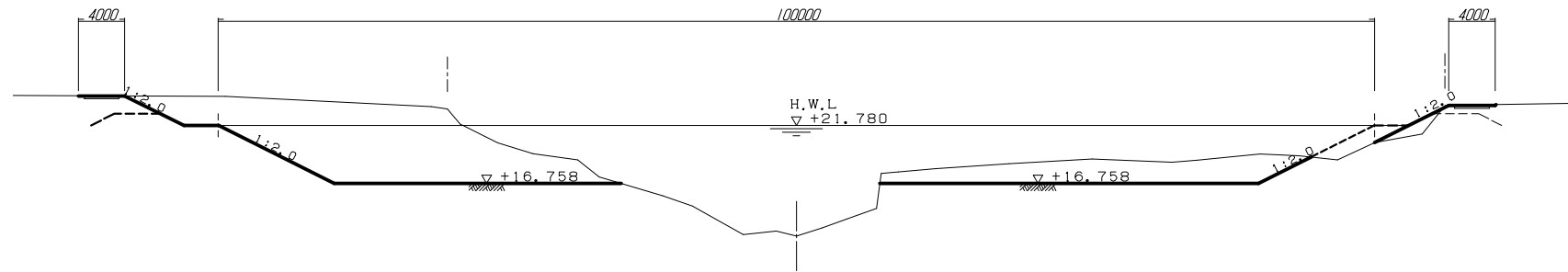
TRANSVERSE SECTION (22/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	170.2	64.3
Embankment	m ²	0.0	3.8
Trimming of slope	m	16.9	12.6
Stripping	m	48.7	50.2
Clearing and grubbing	m	48.7	50.2
Land aquisition	m	28.9	1.4

42.934 (MD322)

GH = +12.20
FH = +16.758

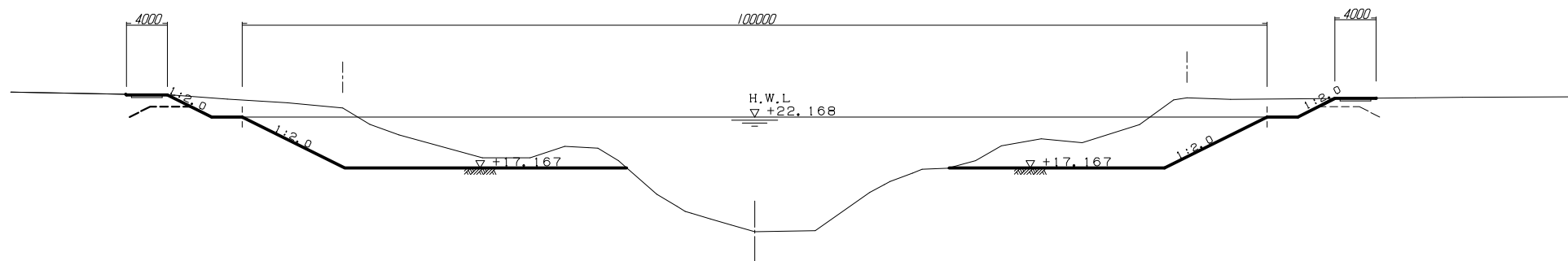


DL=NGT+10.00

	Unit	Left bank	Right bank
Excavation	m ²	107.2	107.5
Embankment	m ²	0.0	0.0
Trimming of slope	m	16.1	15.4
Stripping	m	50.7	43.4
Clearing and grubbing	m	50.7	43.4
Land aquisition	m	18.1	15.4

43.709 (MD320)

GH = +10.94
FH = +17.167

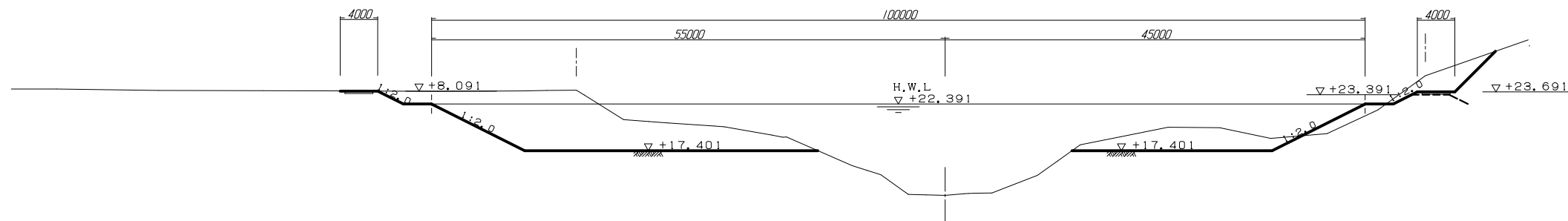


DL=NGT+10.00

	Unit	Left bank	Right bank
Excavation	m ²	152.4	58.2
Embankment	m ²	0.0	8.0
Trimming of slope	m	14.3	20.3
Stripping	m	52.5	48.1
Clearing and grubbing	m	52.5	48.1
Land aquisition	m	22.3	4.5

44.155 (MD318)

GH = +12.60
FH = +17.401



DL=NGT+10.00

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DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (22/33)	43
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

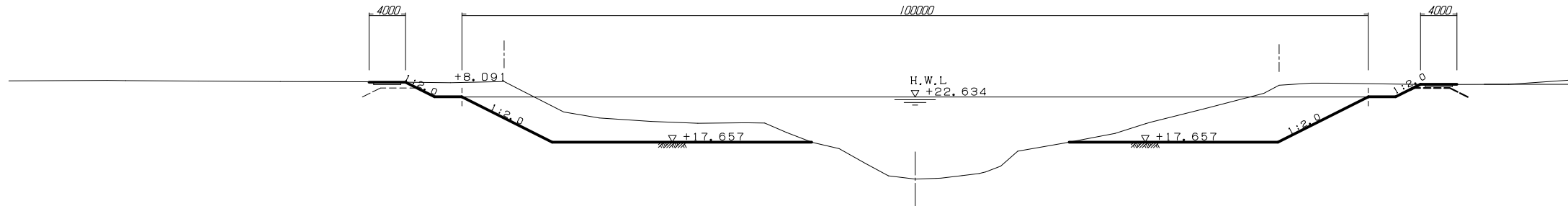
TRANSVERSE SECTION (23/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	104.0	110.6
Embankment	m ²	0.0	0.0
Trimming of slope	m	14.9	14.3
Stripping	m	50.1	43.7
Clearing and grubbing	m	50.1	43.7
Land aquisition	m	11.9	16.6

44.641 (MD316)

GH = +13.57
FH = +17.657

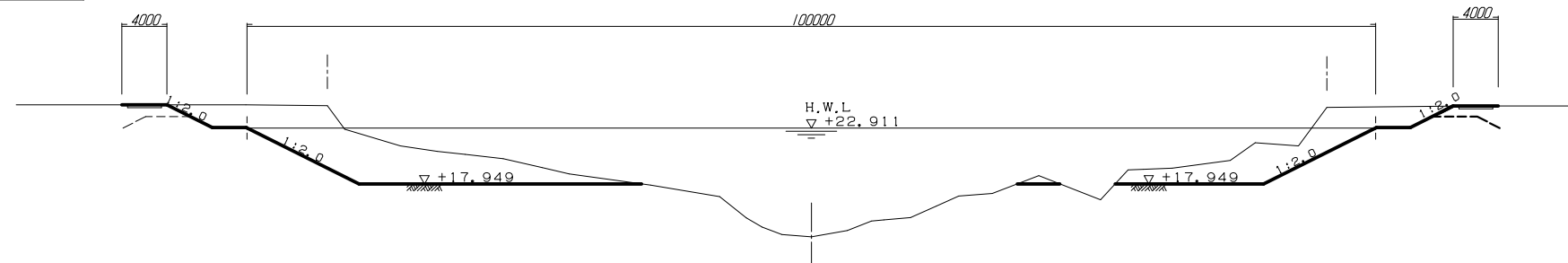


DL=NGT+10.00

	Unit	Left bank	Right bank
Excavation	m ²	101.6	62.8
Embankment	m ²	0.0	0.0
Trimming of slope	m	15.7	15.4
Stripping	m	47.6	40.8
Clearing and grubbing	m	47.6	40.8
Land aquisition	m	15.2	12.2

45.196 (MD314)

GH = +13.26
FH = +17.949

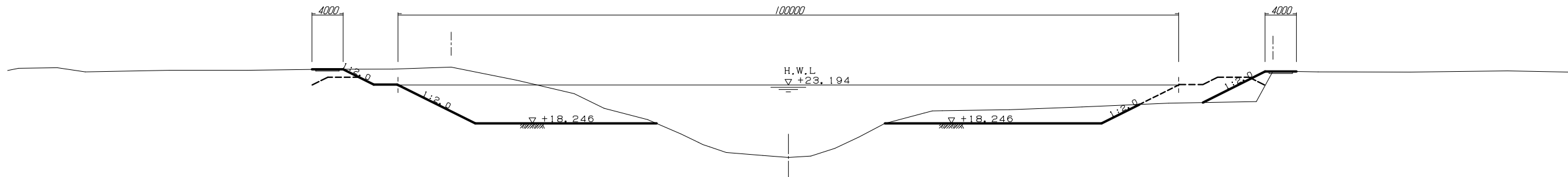


DL=NGT+10.00

	Unit	Left bank	Right bank
Excavation	m ²	140.3	50.6
Embankment	m ²	0.0	15.0
Trimming of slope	m	15.7	14.4
Stripping	m	45.3	47.1
Clearing and grubbing	m	45.3	47.1
Land aquisition	m	14.8	0.0

45.760 (MD312)

GH = +13.88
FH = +18.246



DL=NGT+10.00

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PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (23/33)	44
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

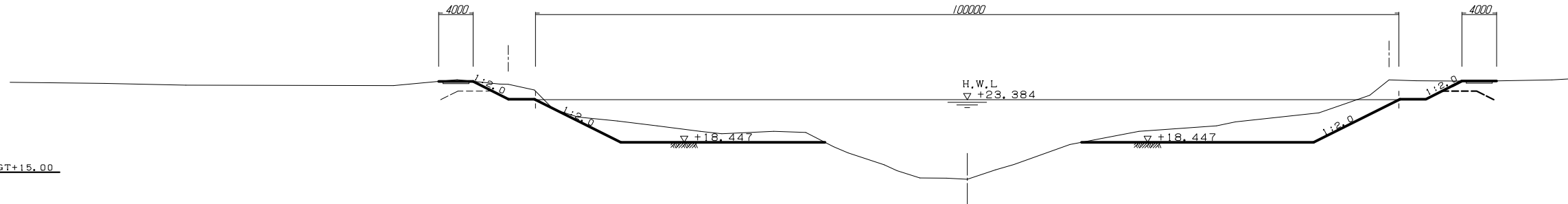
TRANSVERSE SECTION (24/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	49.4	86.5
Embankment	m ²	0.0	0.0
Trimming of slope	m	15.8	15.9
Stripping	m	46.3	49.3
Clearing and grubbing	m	46.3	49.3
Land aquisition	m	5.1	9.4

46.141 (MD310)

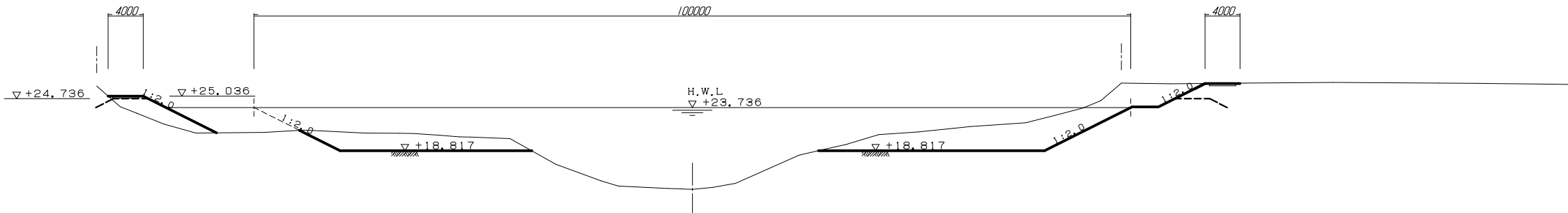
GH = +14.18
FH = +18.447



	Unit	Left bank	Right bank
Excavation	m ²	41.7	100.3
Embankment	m ²	17.6	0.0
Trimming of slope	m	14.5	17.2
Stripping	m	40.2	49.5
Clearing and grubbing	m	40.2	49.5
Land aquisition	m	0.0	10.5

46.845 (MD308)

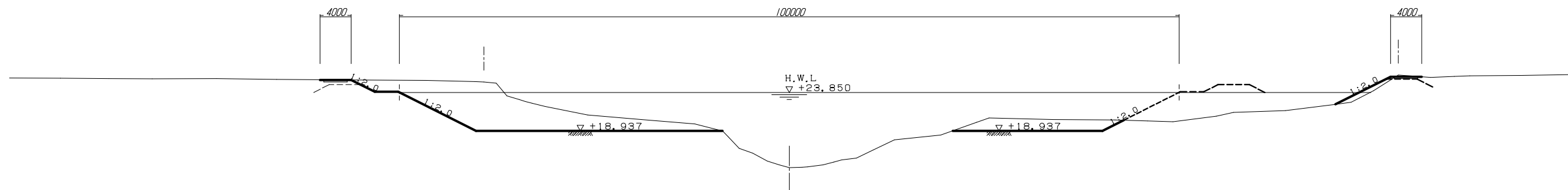
GH = +14.42
FH = +18.817



	Unit	Left bank	Right bank
Excavation	m ²	000.0	000.0
Embankment	m ²	000.0	000.0
Trimming of slope	m	00.0	00.0
Stripping	m	00.0	00.0
Clearing and grubbing	m	00.0	00.0
Land aquisition	m	00.0	00.0

47.074 (MD306)

GH = +14.23
FH = +18.937



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
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DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (24/33)	45
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

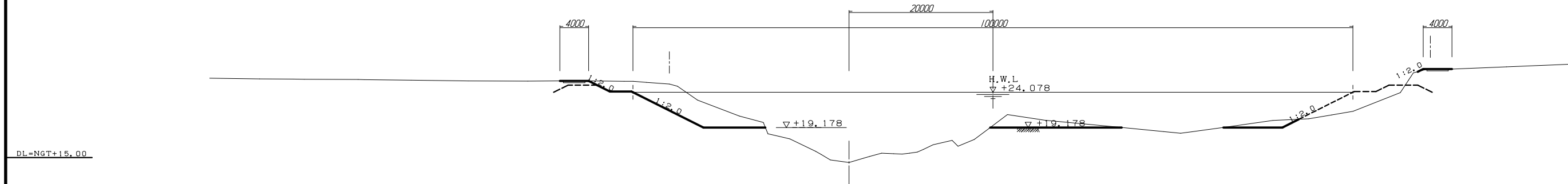
TRANSVERSE SECTION (25/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	53.8	20.7
Embankment	m ²	0.0	0.1
Trimming of slope	m	14.5	3.5
Stripping	m	30.2	34.3
Clearing and grubbing	m	30.2	34.3
Land aquisition	m	12.2	0.0

47.530 (MD304)

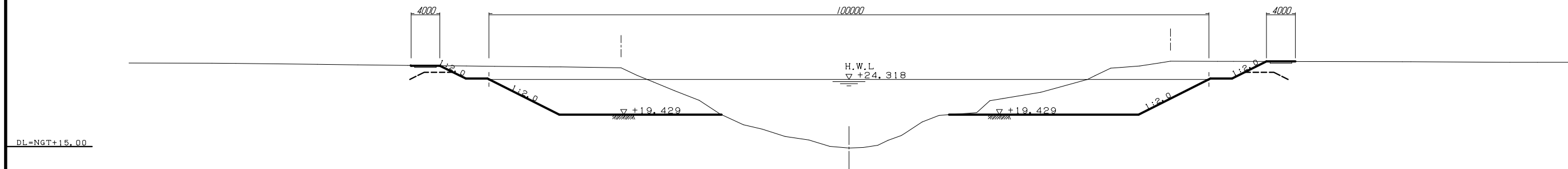
GH = +14.32
FH = +19.178



	Unit	Left bank	Right bank
Excavation	m ²	159.4	150.8
Embankment	m ²	0.0	0.0
Trimming of slope	m	15.3	16.5
Stripping	m	44.6	49.5
Clearing and grubbing	m	44.6	49.5
Land aquisition	m	26.2	14.3

48.009 (MD302)

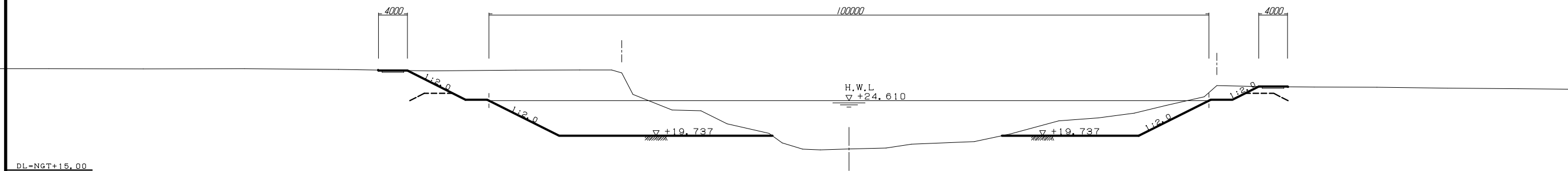
GH = +14.81
FH = +19.429



	Unit	Left bank	Right bank
Excavation	m ²	000.0	000.0
Embankment	m ²	000.0	000.0
Trimming of slope	m	00.0	00.0
Stripping	m	00.0	00.0
Clearing and grubbing	m	00.0	00.0
Land aquisition	m	00.0	00.0

48.594 (MD300)

GH = +17.920
FH = +19.737



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
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DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (25/33)	46
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

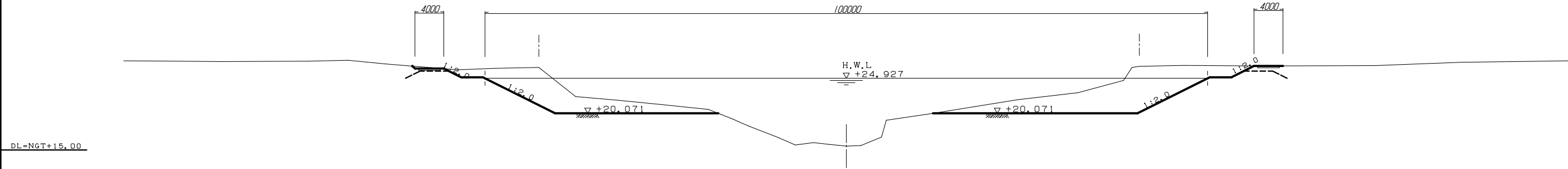
TRANSVERSE SECTION (26/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	78.3	113.9
Embankment	m ²	0.0	0.0
Trimming of slope	m	14.4	14.7
Stripping	m	44.5	49.9
Clearing and grubbing	m	44.5	49.9
Land aquisition	m	14.5	17.9

49.228 (MD298)

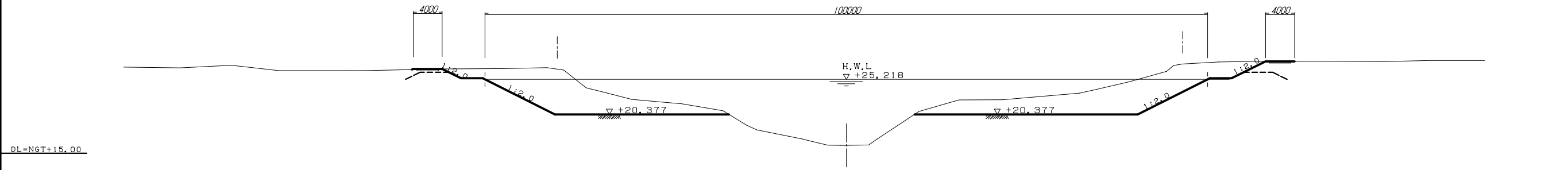
GH = +15.53
FH = +20.071



	Unit	Left bank	Right bank
Excavation	m ²	103.9	126.8
Embankment	m ²	0.2	0.0
Trimming of slope	m	14.3	16.5
Stripping	m	45.2	53.7
Clearing and grubbing	m	45.2	53.7
Land aquisition	m	18.0	13.7

49.809 (MD296)

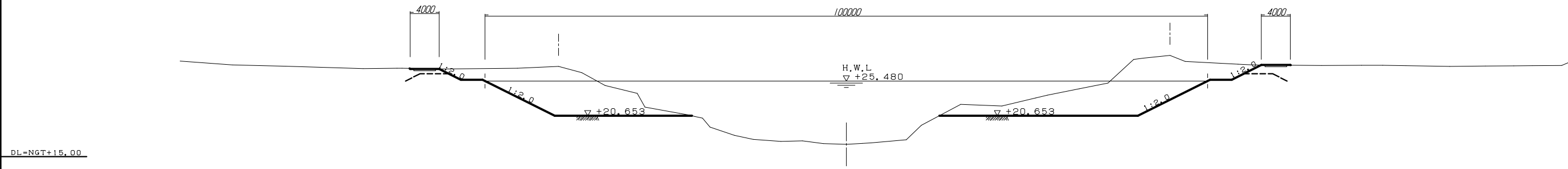
GH = +16.09
FH = +20.377



	Unit	Left bank	Right bank
Excavation	m ²	111.9	146.5
Embankment	m ²	0.0	0.1
Trimming of slope	m	14.7	15.9
Stripping	m	40.9	50.9
Clearing and grubbing	m	40.9	50.9
Land aquisition	m	17.6	11.6

50.334 (MD294)

GH = +16.70
FH = +20.653



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	TRANSVERSE SECTION (26/33)	SHEET NO.
		47
YEO YACHIYO ENGINEERING CO.,LTD, TOKYO JAPAN		

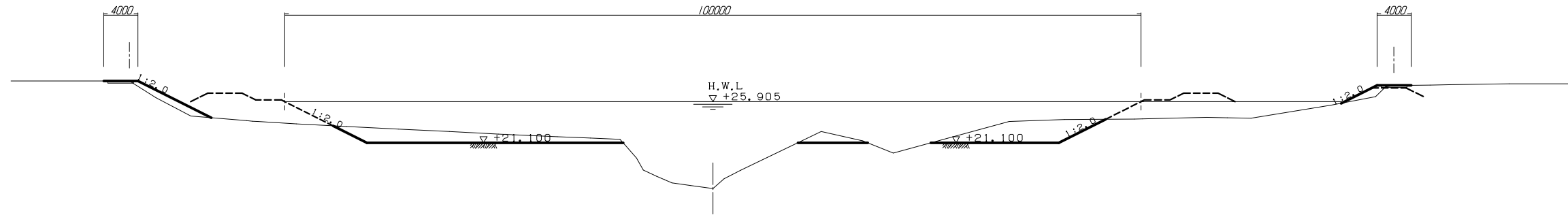
TRANSVERSE SECTION (27/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	35.9	39.6
Embankment	m ²	7.0	3.5
Trimming of slope	m	14.1	10.9
Stripping	m	47.8	38.2
Clearing and grubbing	m	47.8	38.2
Land aquisition	m	0.0	0.0

51.183 (MD292)

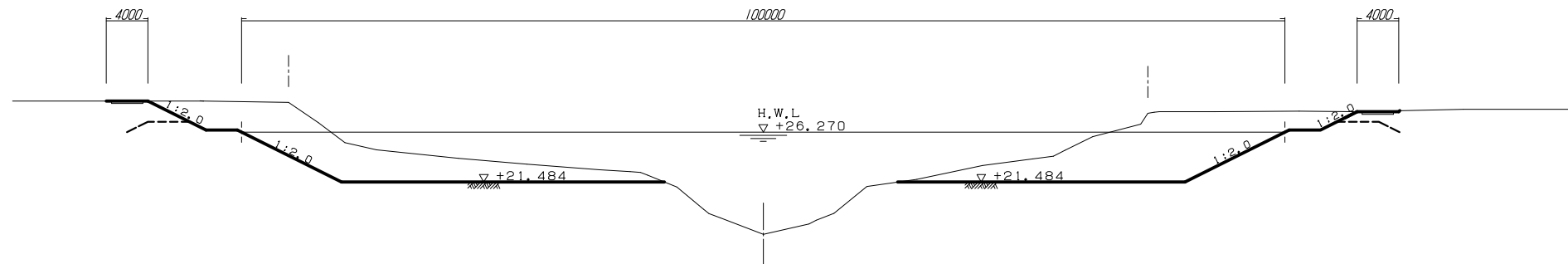
GH = +15.77
FH = +21.100



	Unit	Left bank	Right bank
Excavation	m ²	119.6	134.9
Embankment	m ²	0.0	0.0
Trimming of slope	m	17.4	15.2
Stripping	m	55.1	49.5
Clearing and grubbing	m	55.1	49.5
Land aquisition	m	14.5	21.2

51.912 (MD290)

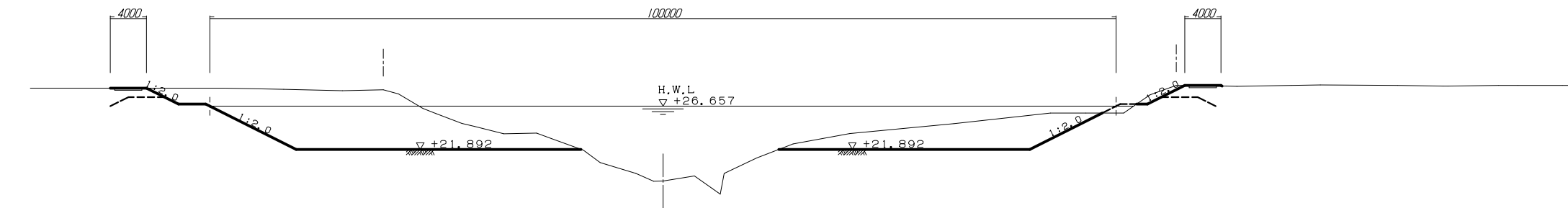
GH = +16.47
FH = +21.484



	Unit	Left bank	Right bank
Excavation	m ²	175.4	80.5
Embankment	m ²	0.0	0.0
Trimming of slope	m	15.2	13.6
Stripping	m	53.2	45.9
Clearing and grubbing	m	53.2	45.9
Land aquisition	m	27.1	2.1

52.688 (MD288)

GH = +18.40
FH = +21.892

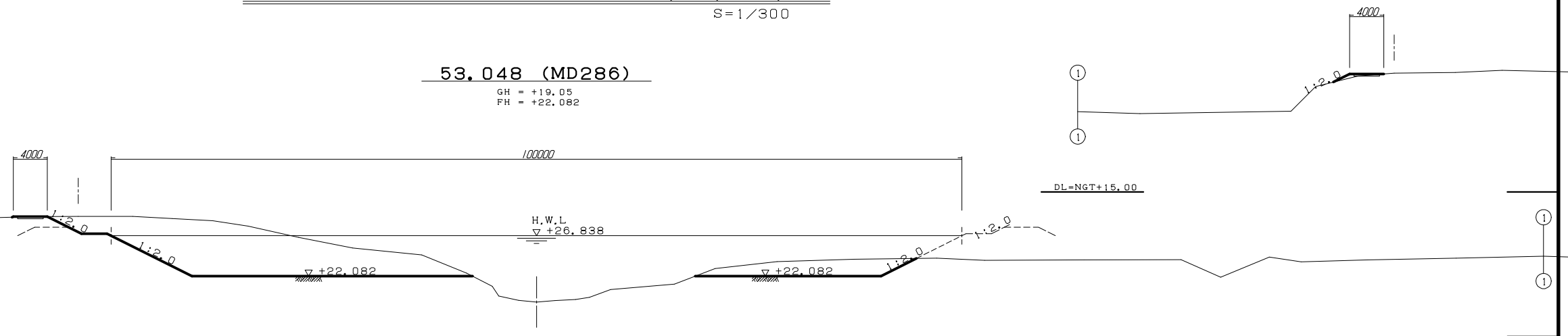


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DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (27/33)	48
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

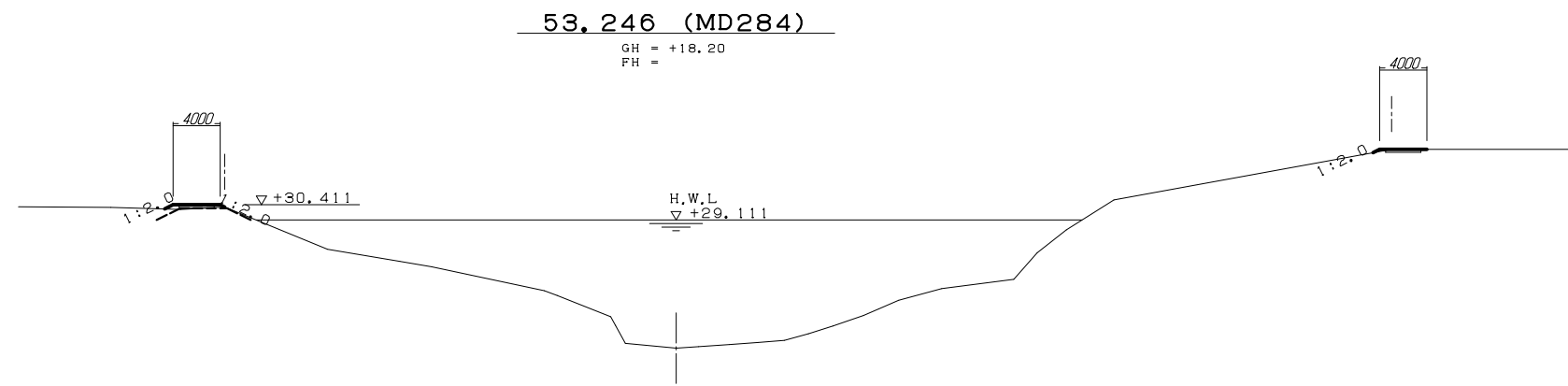
TRANSVERSE SECTION (28/33)

S=1/300

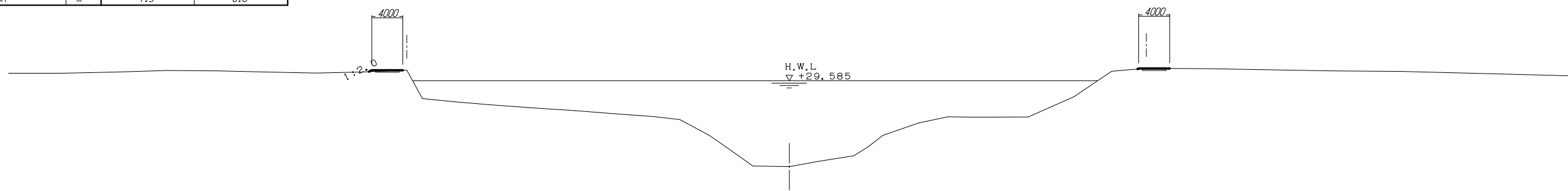
	Unit	Left bank	Right bank
Excavation	m ²	183.2	37.9
Embankment	m ²	0.1	1.2
Trimming of slope	m	15.9	6.8
Stripping	m	55.1	32.2
Clearing and grubbing	m	55.1	32.2
Land aquisition	m	11.2	0.0



	Unit	Left bank	Right bank
Excavation	m ²	0.0	0.0
Embankment	m ²	1.5	0.1
Trimming of slope	m	1.2	0.6
Stripping	m	5.1	4.6
Clearing and grubbing	m	5.1	4.6
Land aquisition	m	2.1	0.0



	Unit	Left bank	Right bank
Excavation	m ²	0.0	0.0
Embankment	m ²	0.4	0.0
Trimming of slope	m	0.4	1.2
Stripping	m	4.4	4.2
Clearing and grubbing	m	4.4	4.2
Land aquisition	m	1.9	0.0



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DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (28/33)	49
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

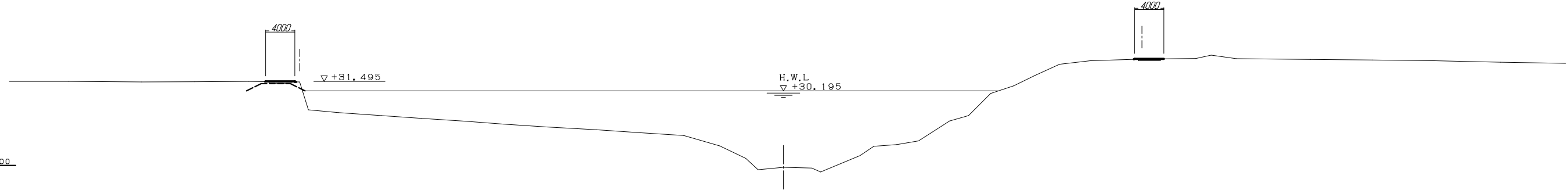
TRANSVERSE SECTION (29/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	0.0	0.0
Embankment	m ²	0.2	0.1
Trimming of slope	m	0.3	0.1
Stripping	m	4.2	4.1
Clearing and grubbing	m	4.2	4.1
Land aquisition	m	1.2	7.1

55.306 (MD280)

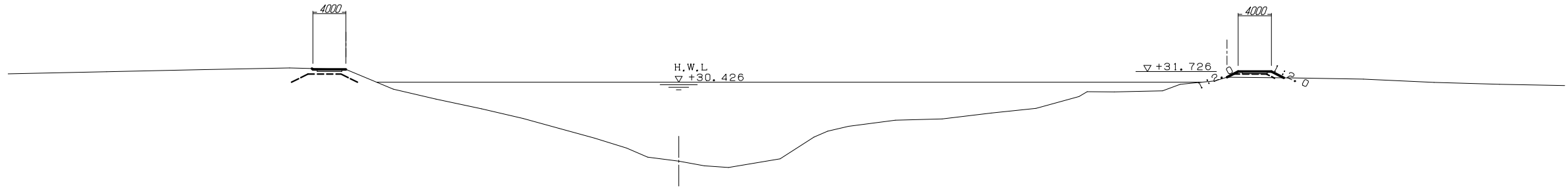
GH = +19.73
FH =



	Unit	Left bank	Right bank
Excavation	m ²	0.2	0.0
Embankment	m ²	0.0	3.9
Trimming of slope	m	0.2	3.2
Stripping	m	4.1	6.9
Clearing and grubbing	m	4.1	6.9
Land aquisition	m	1.1	3.9

55.744 (MD278)

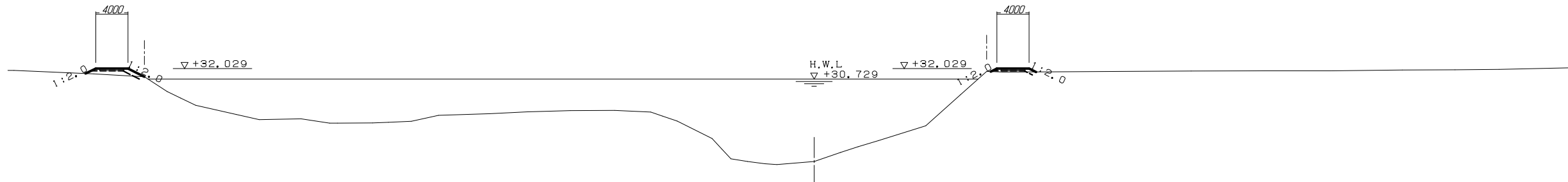
GH = +20.91
FH =



	Unit	Left bank	Right bank
Excavation	m ²	0.0	0.0
Embankment	m ²	4.5	2.1
Trimming of slope	m	3.7	1.9
Stripping	m	7.3	5.6
Clearing and grubbing	m	7.3	5.6
Land aquisition	m	4.3	3.1

56.318 (MD276)

GH = +20.50
FH =



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	TRANSVERSE SECTION (29/33)	SHEET NO.
		50
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN		

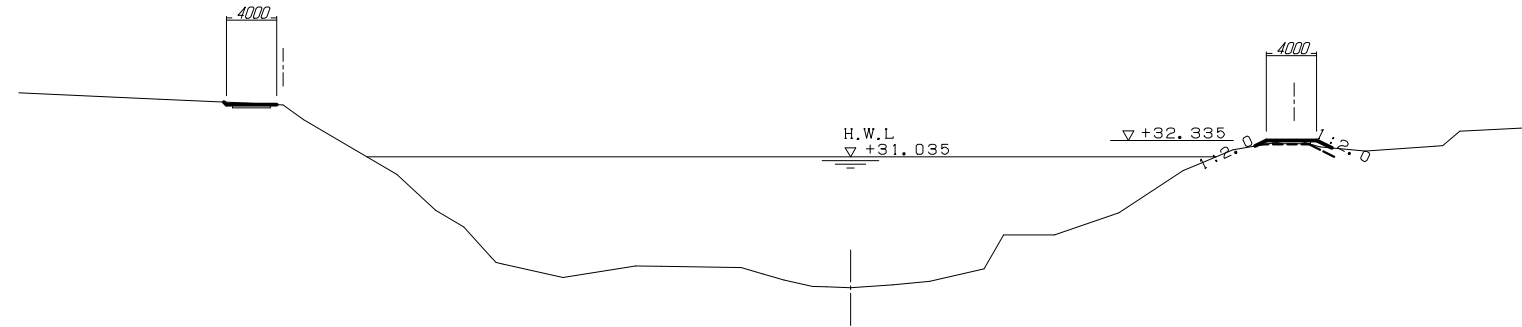
TRANSVERSE SECTION (30/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	0.4	0.0
Embankment	m ²	0.0	1.0
Trimming of slope	m	0.3	2.3
Stripping	m	4.2	6.2
Clearing and grubbing	m	4.2	6.2
Land aquisition	m	1.7	0.0

56.899 (MD274)

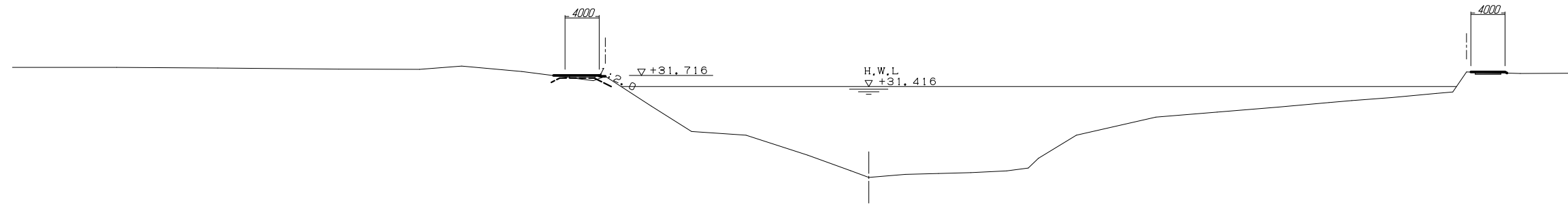
GH = +20.64
FH =



	Unit	Left bank	Right bank
Excavation	m ²	0.0	0.0
Embankment	m ²	1.8	0.2
Trimming of slope	m	1.2	0.3
Stripping	m	6.2	4.2
Clearing and grubbing	m	6.2	4.2
Land aquisition	m	3.0	1.7

57.622 (MD272)

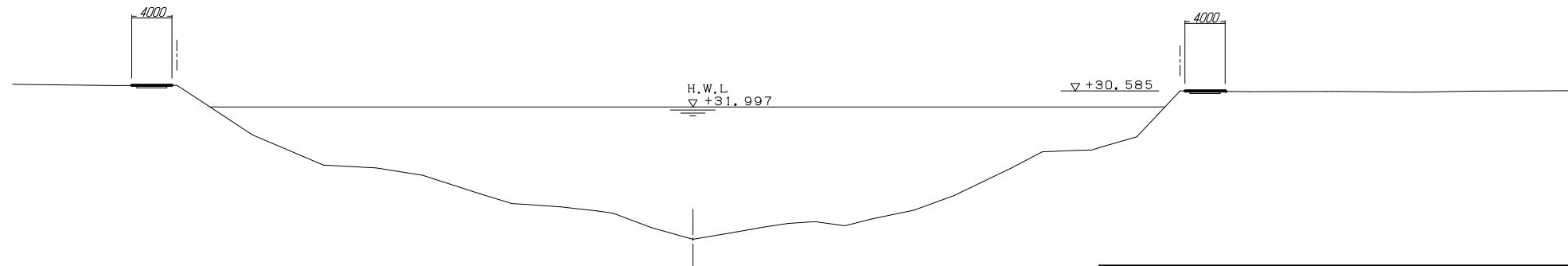
GH = +20.80
FH =



	Unit	Left bank	Right bank
Excavation	m ²	0.0	0.0
Embankment	m ²	0.0	0.1
Trimming of slope	m	0.0	0.1
Stripping	m	4.0	4.1
Clearing and grubbing	m	4.0	4.1
Land aquisition	m	1.5	1.6

58.725 (MD270)

GH = +18.79
FH =



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (30/33)	51
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

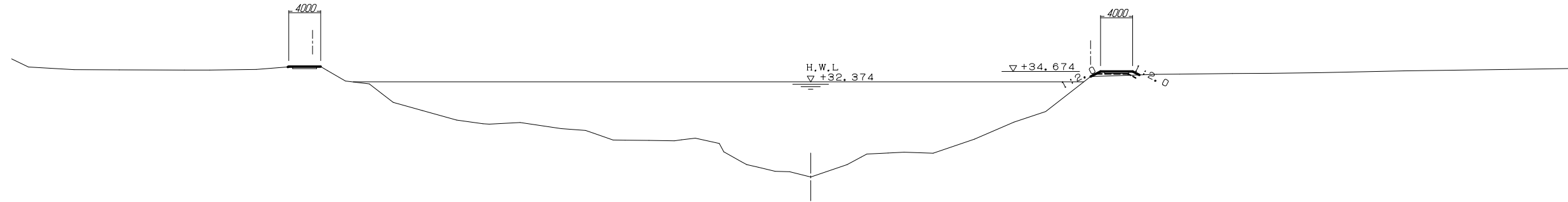
TRANSVERSE SECTION (31/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	0.2	0.0
Embankment	m ²	0.0	2.6
Trimming of slope	m	0.1	2.3
Stripping	m	4.1	6.1
Clearing and grubbing	m	4.1	6.1
Land aquisition	m	0.0	3.1

59.441 (MD268)

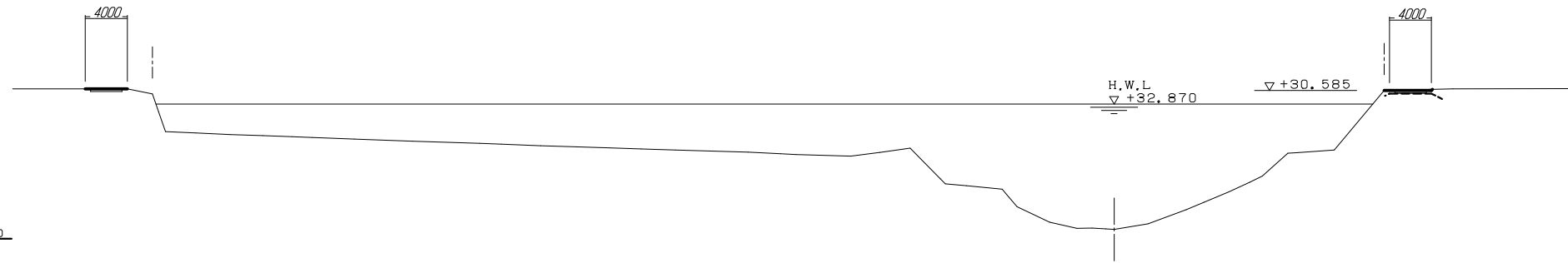
GH = +20.49
FH =



	Unit	Left bank	Right bank
Excavation	m ²	0.0	0.2
Embankment	m ²	0.0	0.0
Trimming of slope	m	0.0	0.1
Stripping	m	4.0	4.6
Clearing and grubbing	m	4.0	4.6
Land aquisition	m	1.0	1.6

60.383 (MD266)

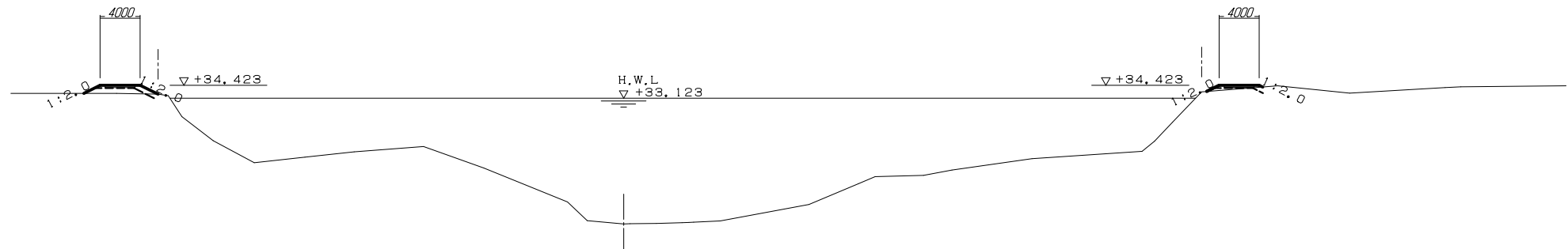
GH = +21.90
FH =



	Unit	Left bank	Right bank
Excavation	m ²	0.0	0.0
Embankment	m ²	4.8	1.9
Trimming of slope	m	3.8	1.8
Stripping	m	7.5	5.6
Clearing and grubbing	m	7.5	5.6
Land aquisition	m	4.5	3.1

60.862 (MD264)

GH = +22.48
FH =



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (31/33)	52
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

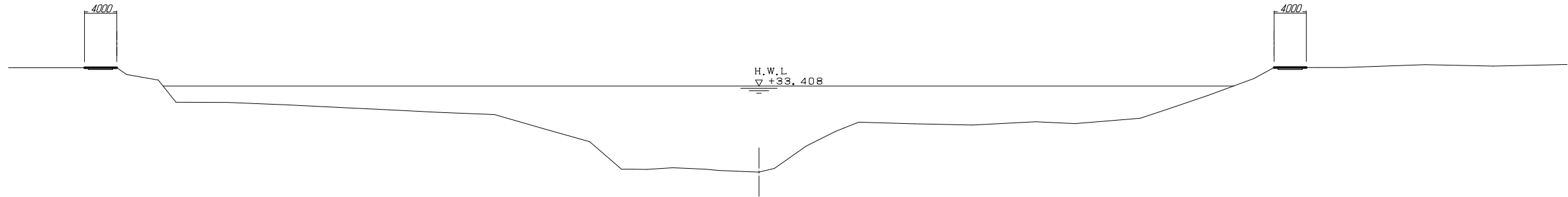
TRANSVERSE SECTION (32/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	0.0	0.0
Embankment	m ²	0.0	0.0
Trimming of slope	m	0.0	0.0
Stripping	m	4.0	4.0
Clearing and grubbing	m	4.0	4.0
Land aquisition	m	1.0	1.0

61.404 (MD262)

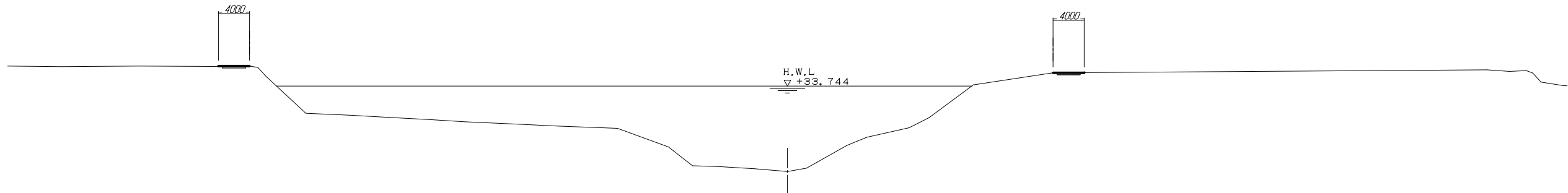
GH = +22.74
FH =



	Unit	Left bank	Right bank
Excavation	m ²	0.0	0.1
Embankment	m ²	0.1	0.0
Trimming of slope	m	0.1	0.0
Stripping	m	4.1	4.0
Clearing and grubbing	m	4.1	4.0
Land aquisition	m	1.0	1.0

62.043 (MD260)

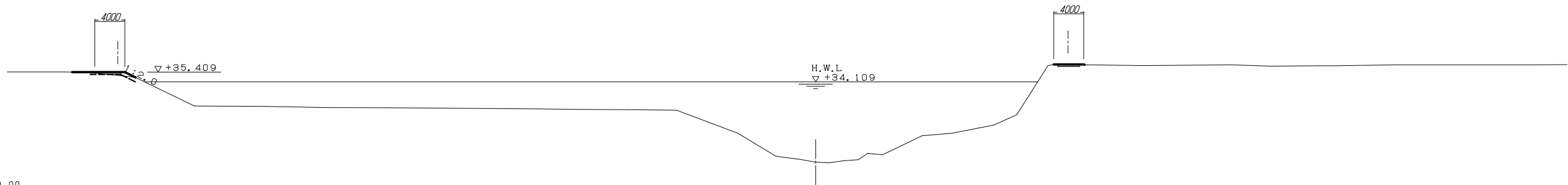
GH = +22.75
FH =



	Unit	Left bank	Right bank
Excavation	m ²	0.0	0.0
Embankment	m ²	1.8	0.1
Trimming of slope	m	1.6	0.1
Stripping	m	8.5	4.1
Clearing and grubbing	m	8.5	4.1
Land aquisition	m	0.0	1.1

62.737 (MD258)

GH = +23.46
FH =



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (32/33)	53
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

TRANSVERSE SECTION (33/33)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²	0.0	0.2
Embankment	m ²	0.2	0.0
Trimming of slope	m	0.2	0.3
Stripping	m	4.2	4.8
Clearing and grubbing	m	4.2	4.8
Land aquisition	m	2.4	0.0

63.714 (MD256)

GH = +24.42
FH =

H.W.L
▽ +34.623

DL=NGT+20.00

	Unit	Left bank	Right bank
Excavation	m ²	0.4	0.0
Embankment	m ²	0.0	0.1
Trimming of slope	m	0.3	0.1
Stripping	m	4.2	4.1
Clearing and grubbing	m	4.2	4.1
Land aquisition	m	1.2	1.5

64.301 (MD254)

GH = +23.88
FH =

H.W.L
▽ +34.932

DL=NGT+20.00

	Unit	Left bank	Right bank
Excavation	m ²	0.9	1.7
Embankment	m ²	0.0	0.0
Trimming of slope	m	0.6	1.1
Stripping	m	4.4	4.8
Clearing and grubbing	m	4.4	4.8
Land aquisition	m	1.9	1.8

64.974 (MD252)

GH = +23.82
FH =

H.W.L
▽ +35.287

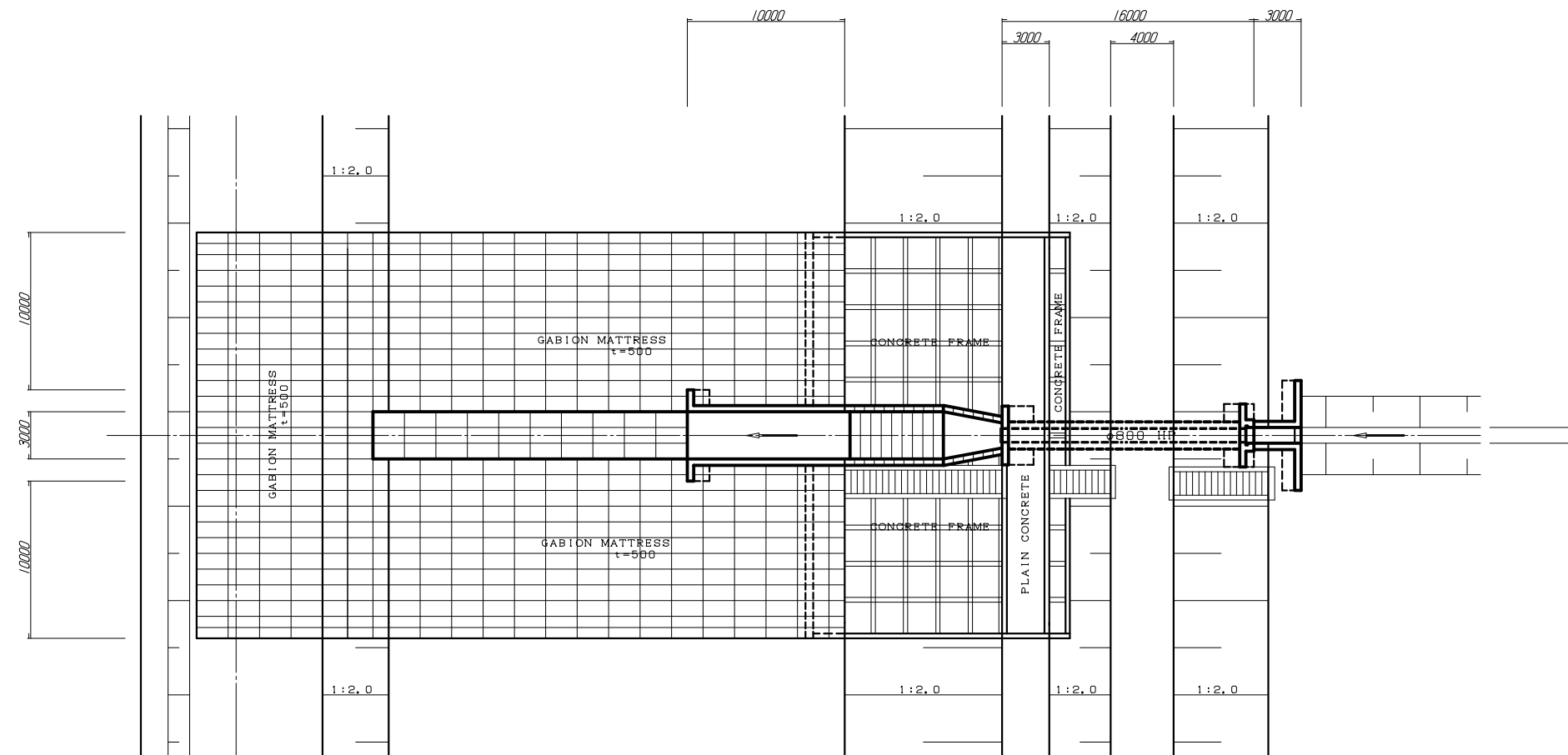
DL=NGT+20.00

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
TRANSVERSE SECTION (33/33)	54
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

GENERAL PLAN OF SLUICWAYS (1/2)

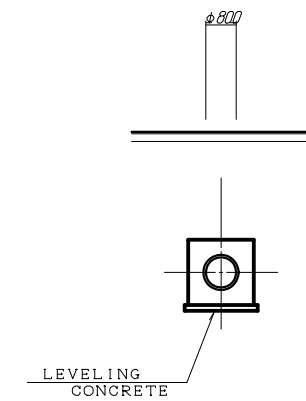
HP ϕ 800 SLUICWAY

P L A N



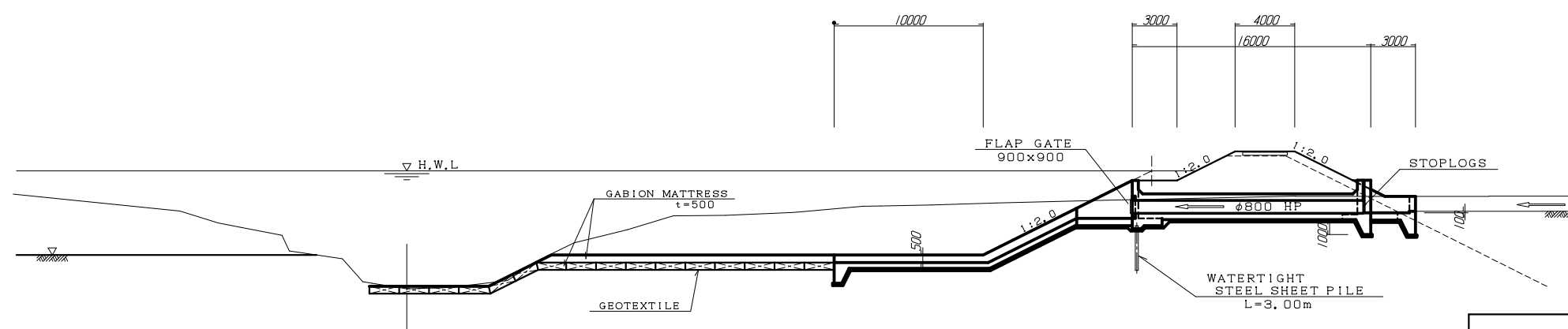
TYPICAL CROSS SECTION

S=1/100



LONGITUDINAL SECTION

S=1/200



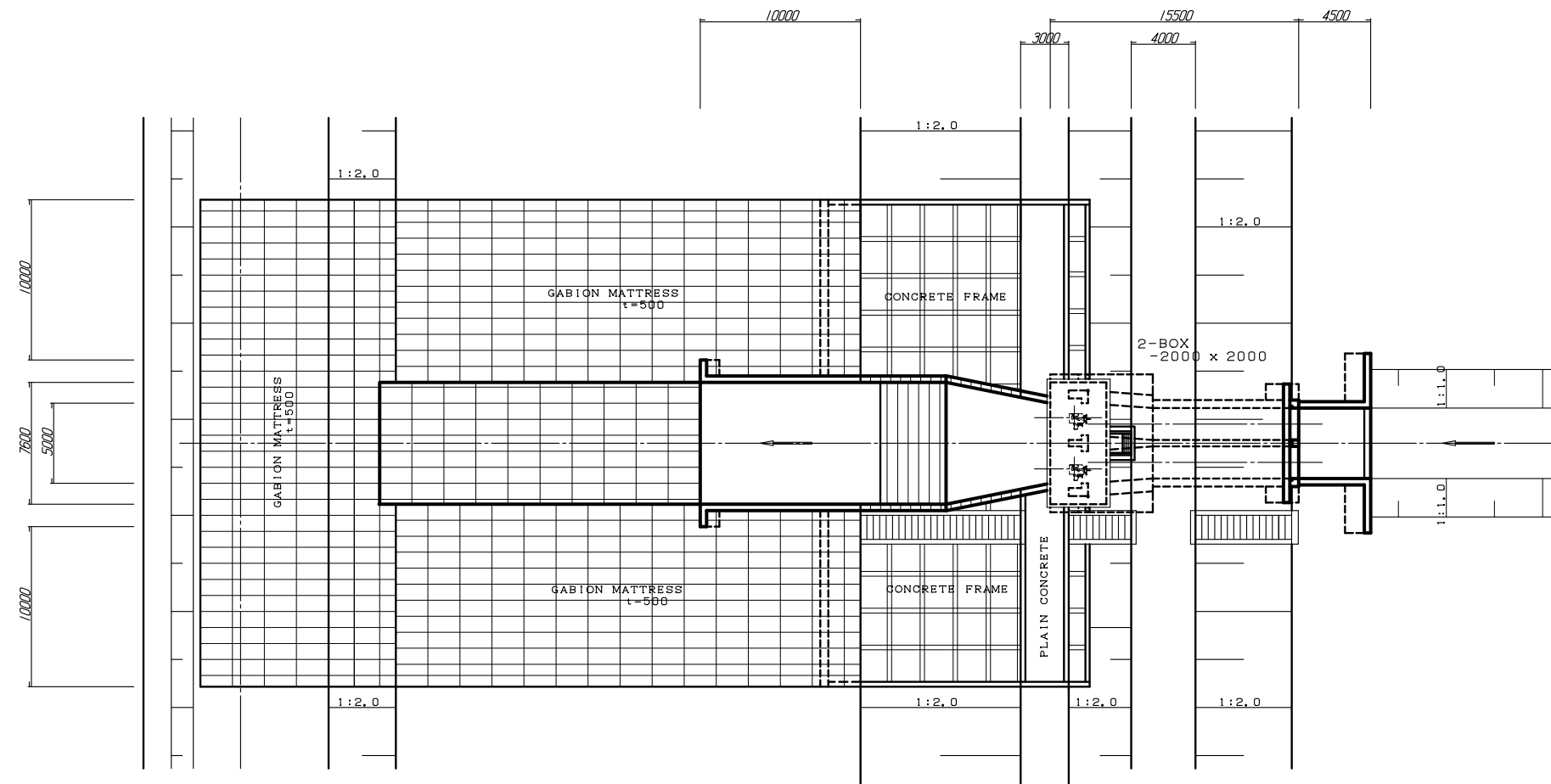
No.	LOCATION	
1	MD399 . 16, 73km	LEFT BANK
3	MD360+ . 30, 20km	RIGHT BANK
4	MD357+ . 30, 80km	RIGHT BANK
6	MD326 . 41, 71km	LEFT BANK
7	MD326 . 41, 71km	RIGHT BANK
8	MD317 . 44, 39km	RIGHT BANK
9	MD299 . 48, 76km	RIGHT BANK

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
GENERAL PLAN OF SLUICWAYS (1/2)	55
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN	

GENERAL PLAN OF SLUICWAYS (2/2)

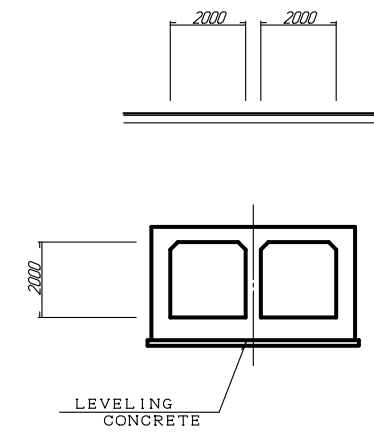
2-CULVERT BOX 2000B x 2000H

P L A N



TYPICAL CROSS SECTION

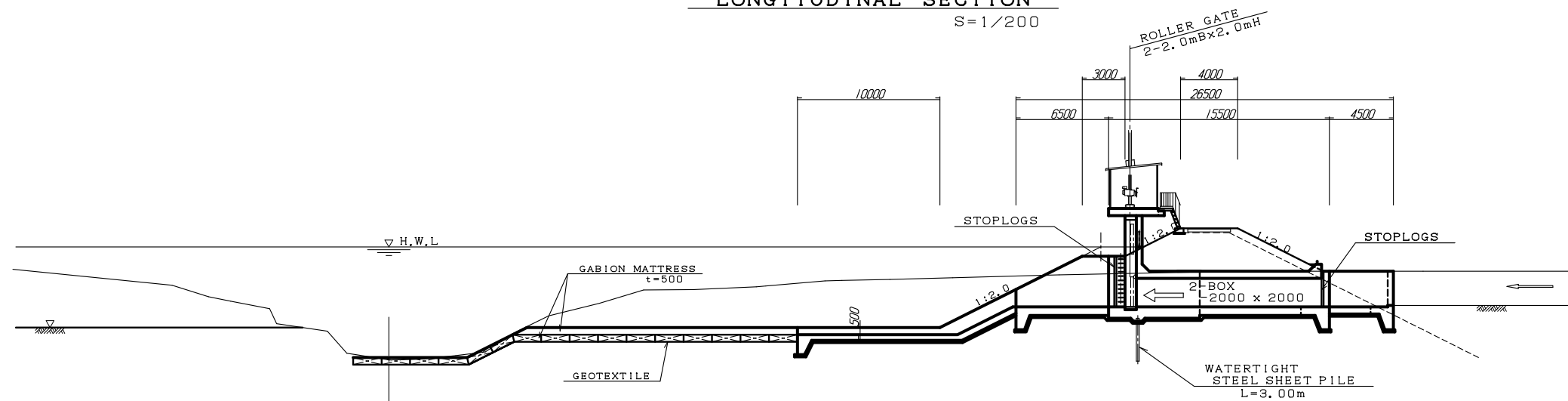
S=1/100



No.	LOCATION
2	MD365 . 28,40km RIGHT BANK
5	MD349 . 33,78km RIGHT BANK

LONGITUDINAL SECTION

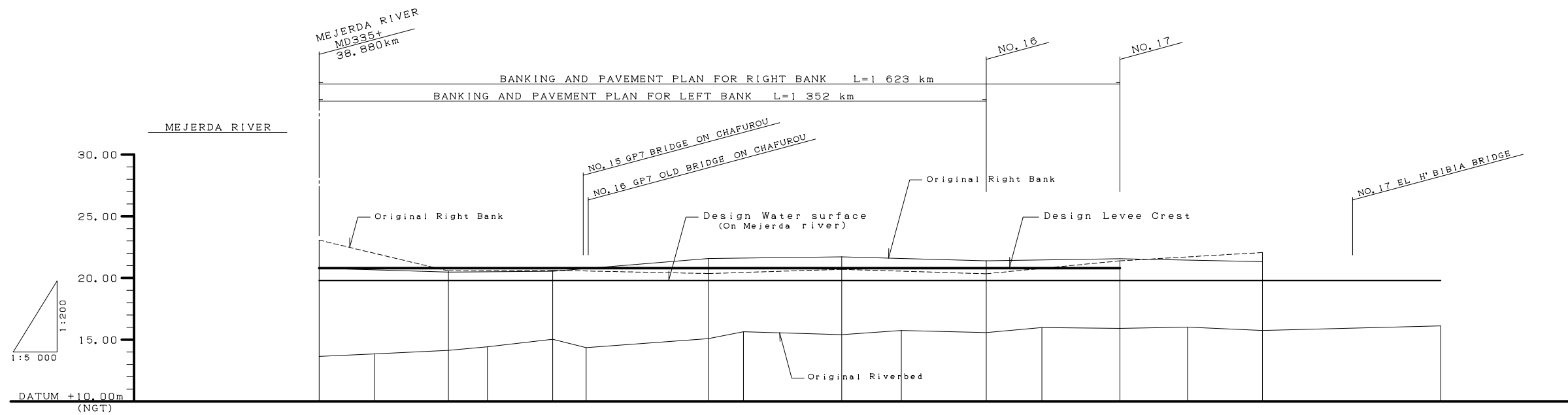
S=1/200



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	GENERAL PLAN OF SLUICWAYS (2/2)	SHEET NO.
		56
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN		

SHAFUROU RIVER LONGITUDINAL SECTION

S: V=1/ 200
H=1/5 000



DESIGN	SLOPE OF LEVEE	LEVEL															
	SLOPE OF WATER LEVEL	LEVEL L = 1 623 m															
	LEVEE ELEVATION	20.800	20.800	20.800	20.800	20.800	20.800	20.800	20.800	20.800	20.800	20.800	20.800	20.800	20.800	20.800	20.800
	WATER LEVEL	19.800	19.800	19.800	19.800	19.800	19.800	19.800	19.800	19.800	19.800	19.800	19.800	19.800	19.800	19.800	19.800
	RIVERBED ELEVATION																
RIGHT BANK GROUND ELEVATION	23.070		20.570		20.620		20.360		20.700		20.340		21.350		22.060	3.690	
LEFT BANK GROUND ELEVATION	20.700		20.480		20.550		21.570		21.720		21.390		21.560		21.320		
RIVERBED ELEVATION	13.640	13.840	14.140	14.430	15.040	14.350	15.080	15.650	15.410	15.750	15.580	15.990	15.910	16.020	15.740	16.110	
ACCUMULATIVE DISTANCE	0.00	112.44	261.89	341.24	473.47	541.42	709.00	860.28	1059.50	1180.24	1352.17	1464.97	1622.92	1760.40	1911.89	2273.18	
DISTANCE	0.00	112.44	149.45	79.35	132.23	67.95	247.98	71.28	199.22	120.74	171.93	112.80	157.95	137.48	151.49	361.29	
STATION No.	NO. 11	PT. 1	NO. 12	PT. 2	NO. 13	PT. 3	NO. 14	PT. 4	NO. 15	PT. 5	NO. 16	PT. 6	NO. 17	PT. 7	NO. 18	PT. 8	

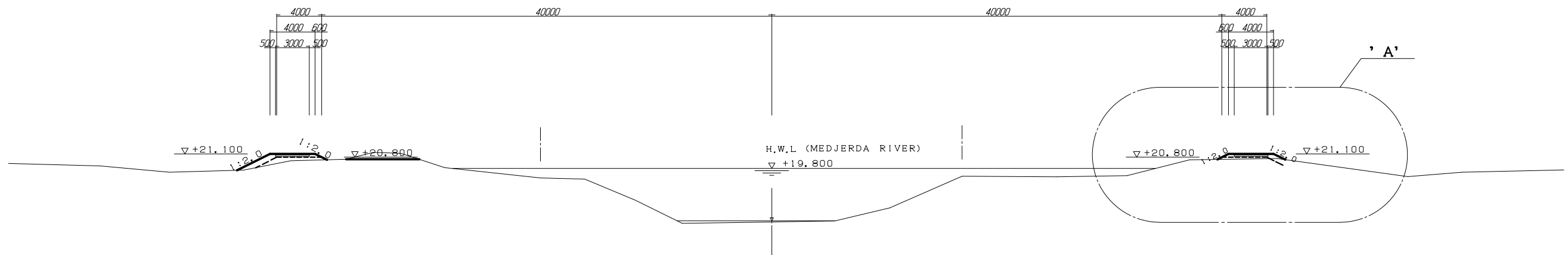
REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	SHAFUROU RIVER LONGITUDINAL SECTION	SHEET NO. 57
YACHIYO ENGINEERING Co.,LTD, TOKYO JAPAN		

SHAFUROU RIVER TYPICAL CROSS SECTION

NO. 13

GH = +15.04
FH =

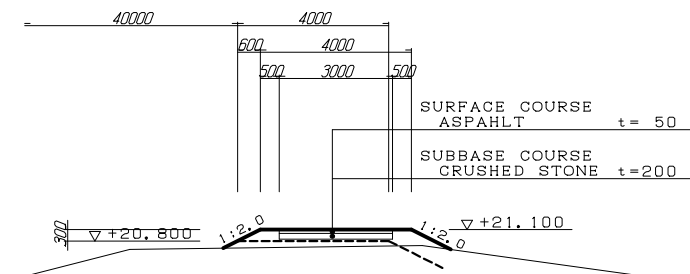
S = 1/200



DL=NGT+10.00

DETAIL-' A'

S = 1/100

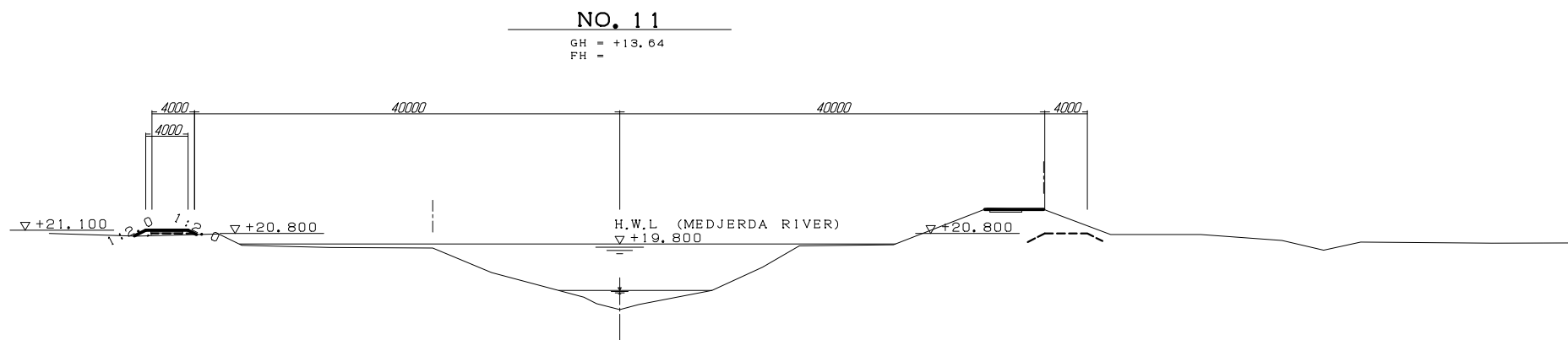


REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	SHAFUROU RIVER TYPICAL CROSS SECTION	SHEET NO. 58
YEO YACHIYO ENGINEERING CO.,LTD, TOKYO JAPAN		

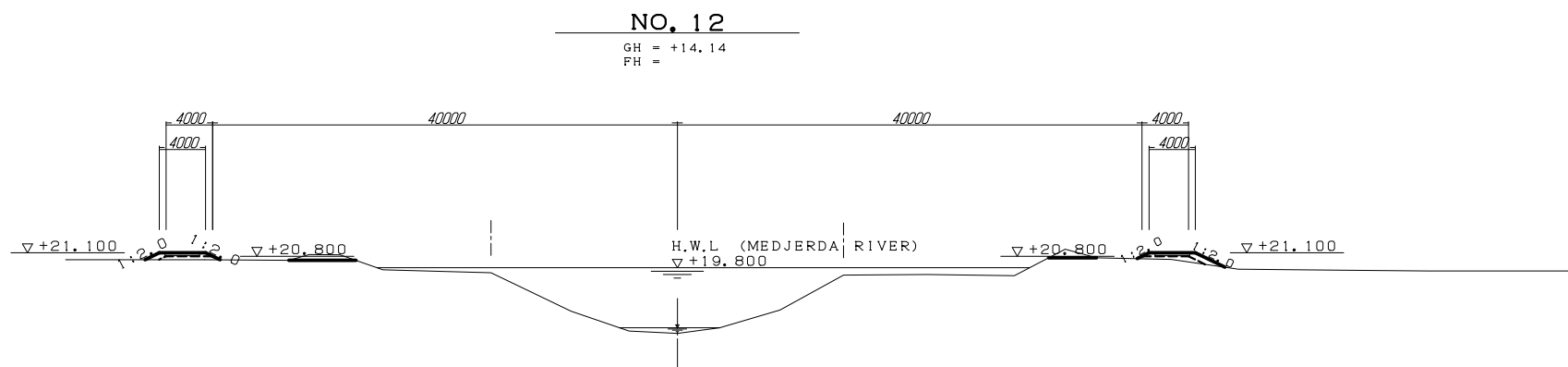
SHAFUROU RIVER TRANSVERSE SECTION (1/3)

S=1/300

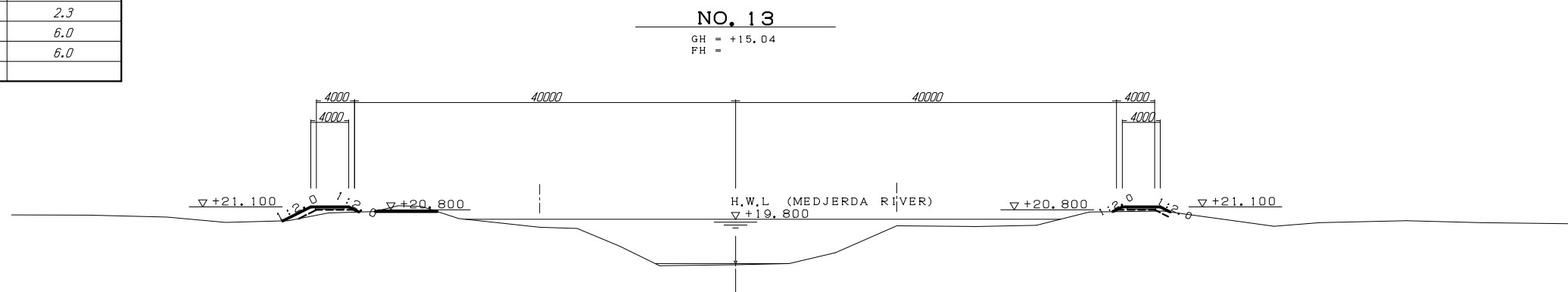
	Unit	Left bank	Right bank
Excavation	m ²		0.3
Embankment	m ²	2.3	
Trimming of slope	m ²	2.1	
Stripping	m	5.9	5.6
Clearing and grubbing	m	5.9	5.6
Land aquisition	m	7.8	



	Unit	Left bank	Right bank
Excavation	m ²	2.1	1.5
Embankment	m ²	3.2	4.0
Trimming of slope	m ²	2.8	3.9
Stripping	m	12.4	11.7
Clearing and grubbing	m	12.4	11.7
Land aquisition	m	6.5	



	Unit	Left bank	Right bank
Excavation	m ²	2.6	
Embankment	m ²	4.6	2.2
Trimming of slope	m ²	4.5	2.3
Stripping	m	14.7	6.0
Clearing and grubbing	m	14.7	6.0
Land aquisition	m	9.7	



REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	SHAFUROU RIVER TRANSVERSE SECTION (1/3)	SHEET NO. 59
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN		

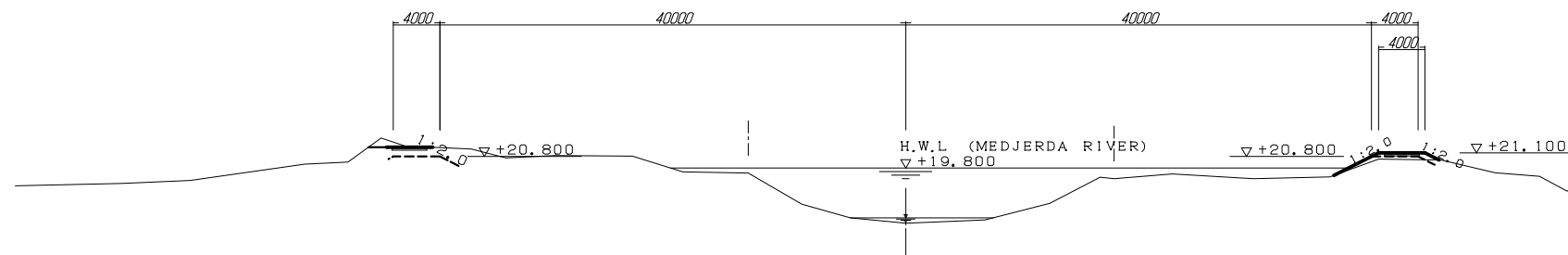
SHAFUROU RIVER TRANSVERSE SECTION (2/3)

S=1/300

	Unit	Left bank	Right bank
Excavation	m ²		
Embankment	m ²	1.5	3.7
Trimming of slope	m ²		5.6
Stripping	m	5.5	9.7
Clearing and grubbing	m	5.5	9.7
Land aquisition	m		

NO. 14

GH = +15.08
FH =

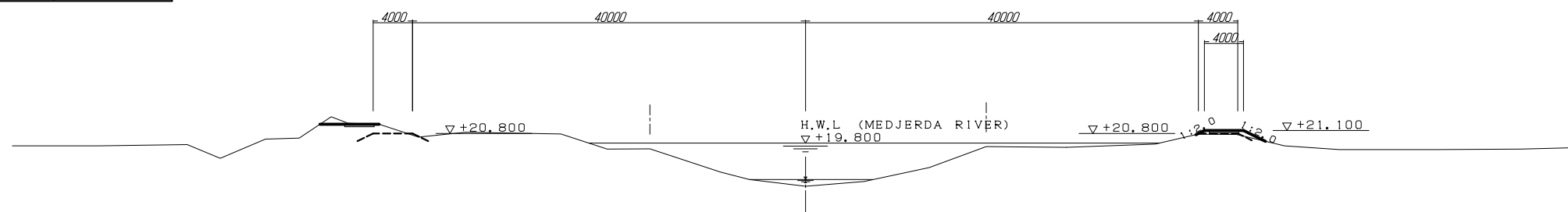


DL=NGT+10.00

	Unit	Left bank	Right bank
Excavation	m ²		
Embankment	m ²	1.4	2.3
Trimming of slope	m ²		3.5
Stripping	m	6.0	7.0
Clearing and grubbing	m	6.0	7.0
Land aquisition	m		

NO. 15

GH = +15.41
FH =

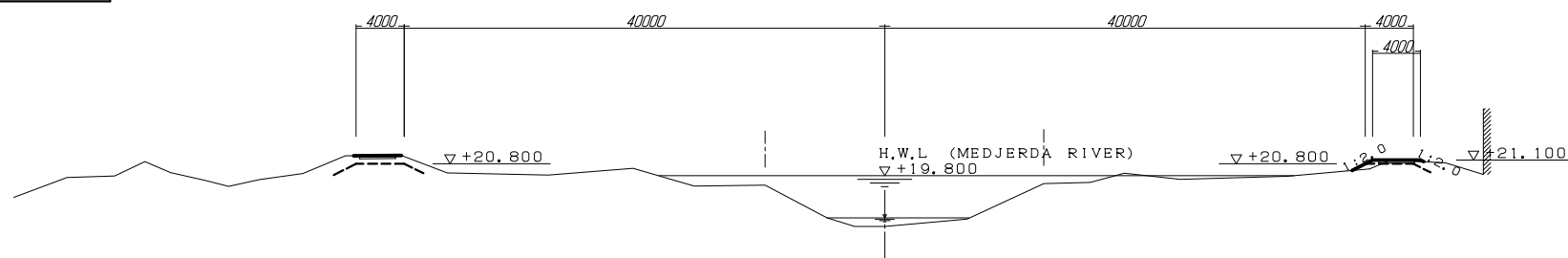


DL=NGT+10.00

	Unit	Left bank	Right bank
Excavation	m ²		
Embankment	m ²		1.2
Trimming of slope	m ²		2.2
Stripping	m	4.0	6.1
Clearing and grubbing	m	4.0	6.1
Land aquisition	m		

NO. 16

GH = +15.58
FH =



DL=NGT+10.00

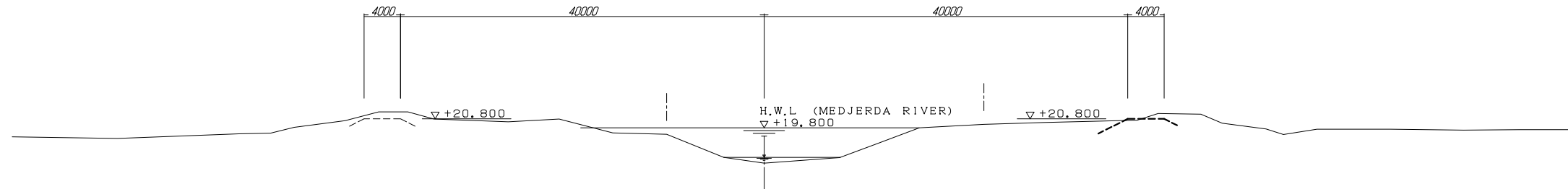
REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY	
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES		
DRAWING TITLE	SHAFUROU RIVER TRANSVERSE SECTION (2/3)	SHEET NO. 60
YEO YACHIYO ENGINEERING CO.,LTD. TOKYO JAPAN		

SHAFUROU RIVER TRANSVERSE SECTION (3/3)

S=1/300

NO. 17

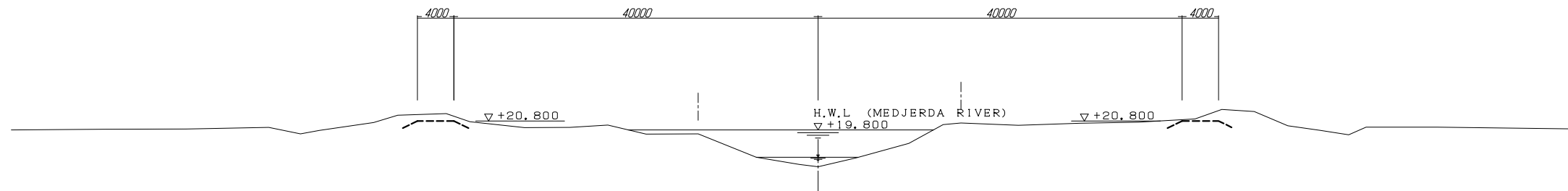
GH = +15.91
FH =



DL=NGT+10.00

NO. 18

GH = +15.74
FH =



DL=NGT+10.00

DL=NGT+10.00

REPUBLIC OF TUNISIA GENERAL DIRECTORATE OF DAMS AND LARGE HYDRAULIC WORKS, MINISTRY OF AGRICULTURE	JAPAN INTERNATIONAL COOPERATION AGENCY
PREPARATORY SURVEY ON INTEGRATED BASIN MANAGEMENT AND FLOOD CONTROL PROJECT FOR MEJERDA RIVER : DEVELOPMENT OF FLOOD PREVENTION MEASURES	
DRAWING TITLE	SHEET NO.
SHAFUROU RIVER TRANSVERSE SECTION (3/3)	61
Y&E YACHIYO ENGINEERING CO.,LTD, TOKYO JAPAN	