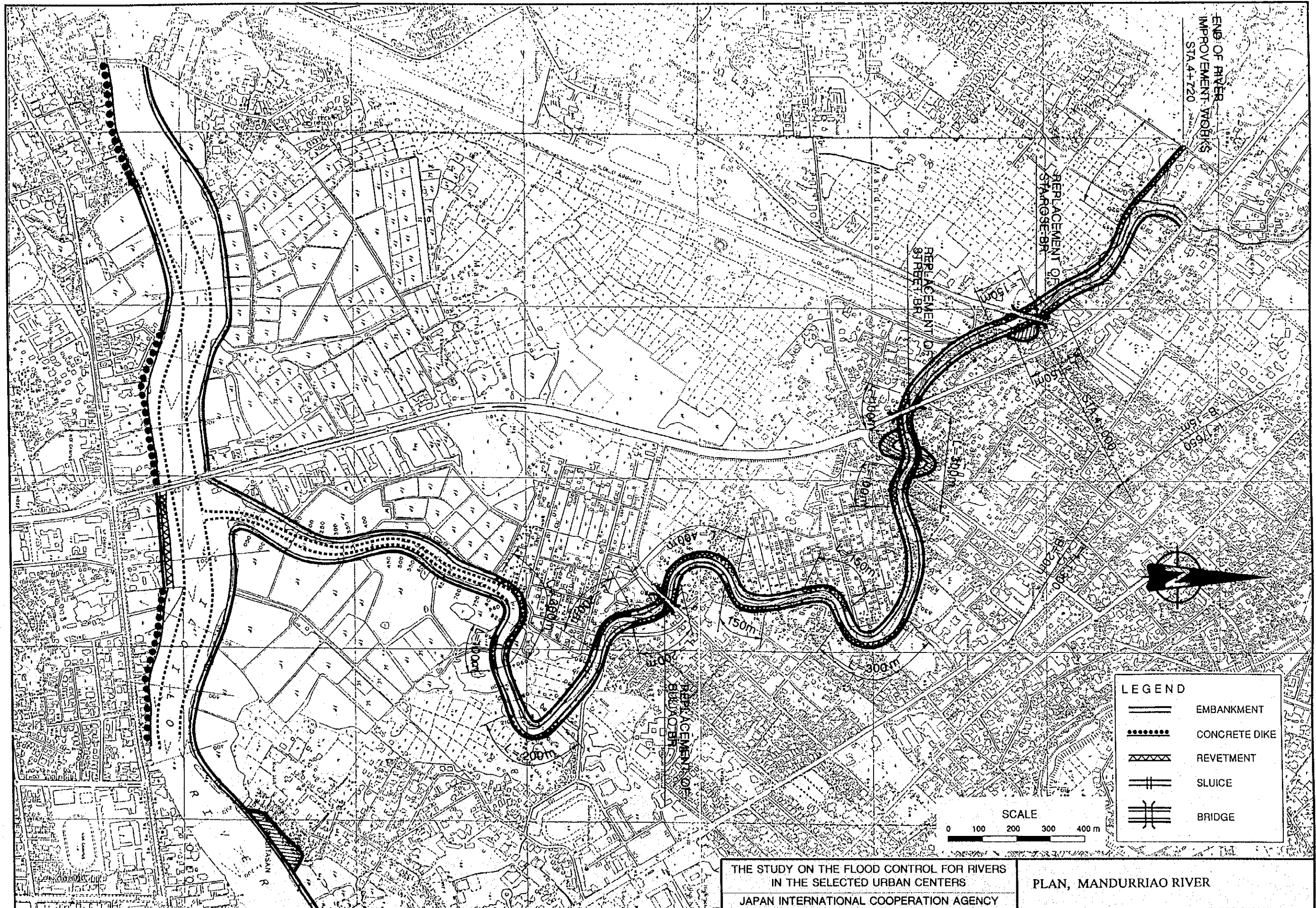
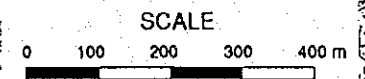


MANDURRIO RIVER IMPROVEMENT PLAN



ENG. OF RIVER
IMPROVEMENT- WORKS
STA. 4+720

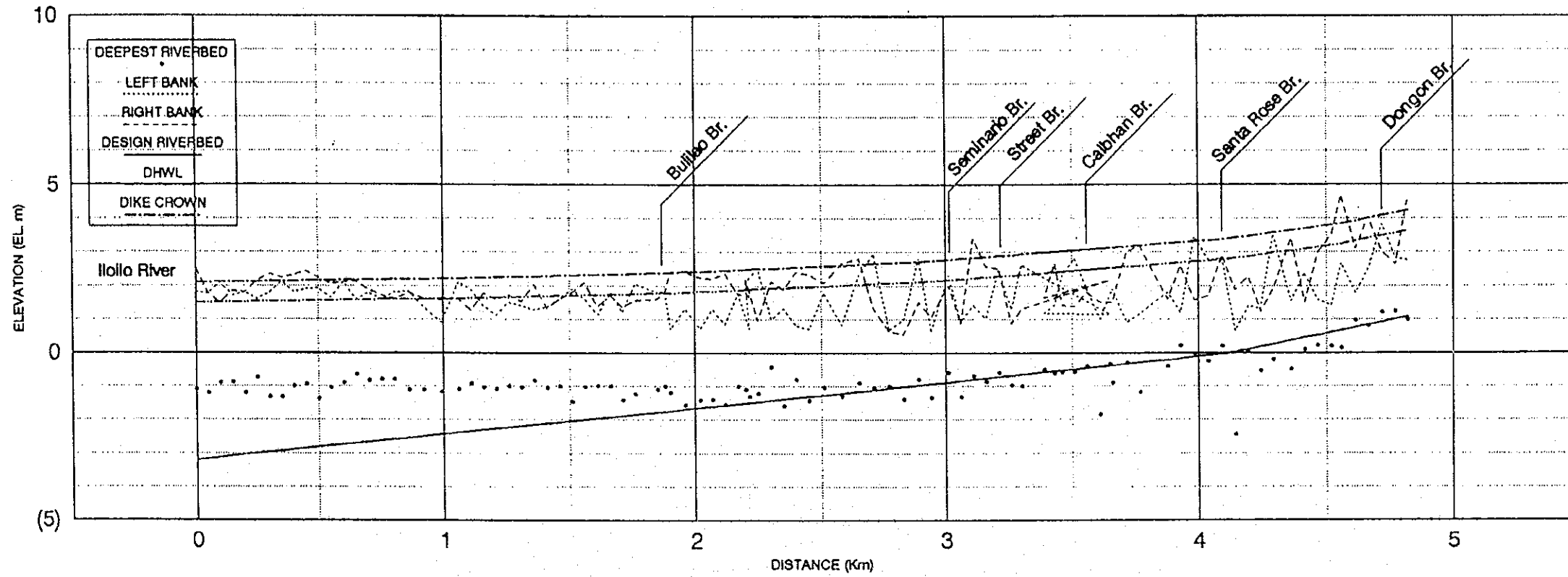
LEGEND	
	EMBANKMENT
	CONCRETE DIKE
	REVETMENT
	SLUICE
	BRIDGE



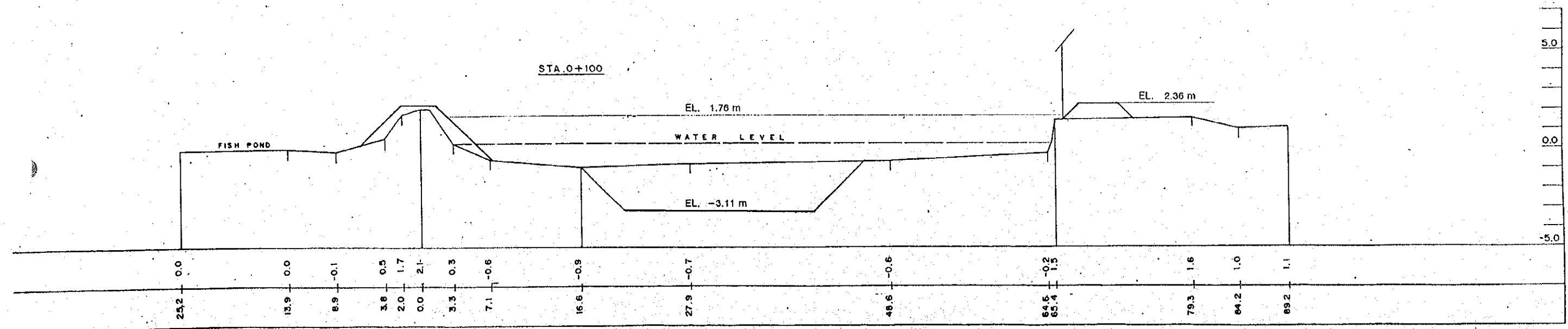
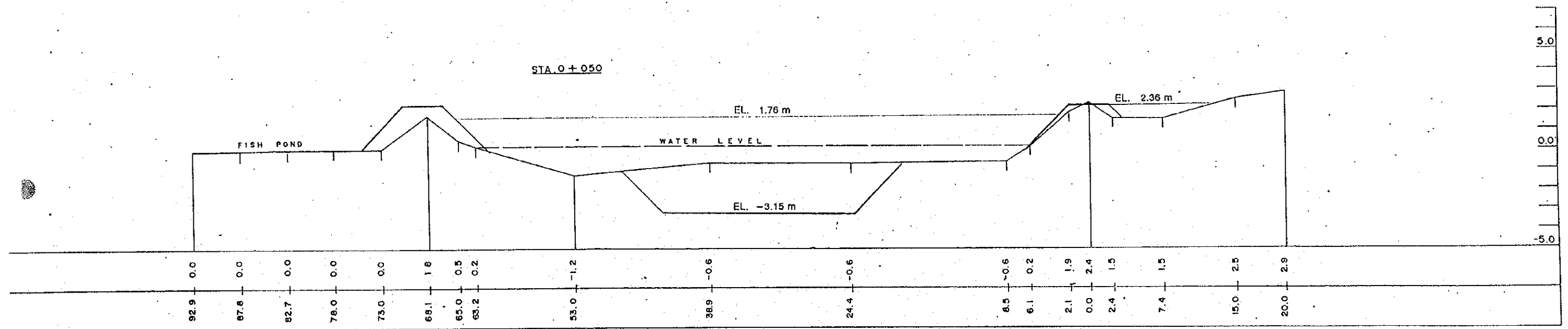
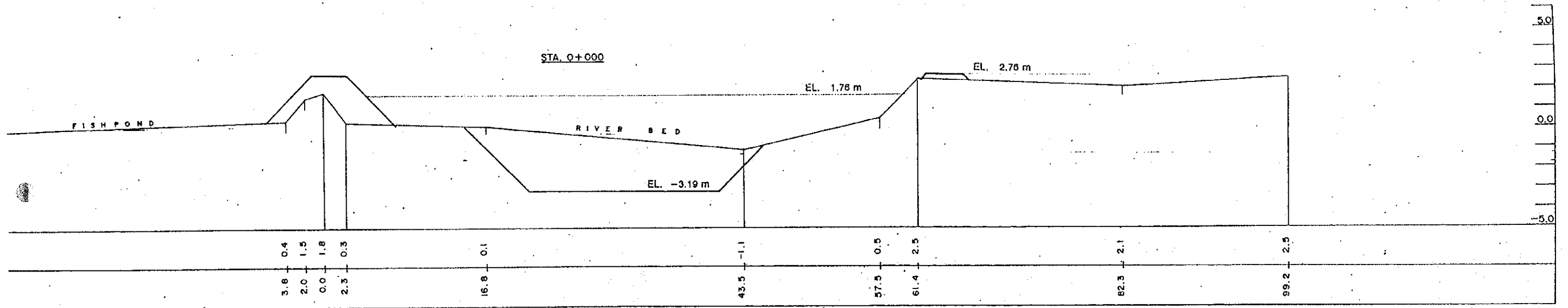
THE STUDY ON THE FLOOD CONTROL FOR RIVERS
IN THE SELECTED URBAN CENTERS
JAPAN INTERNATIONAL COOPERATION AGENCY

PLAN, MANDURRIAO RIVER

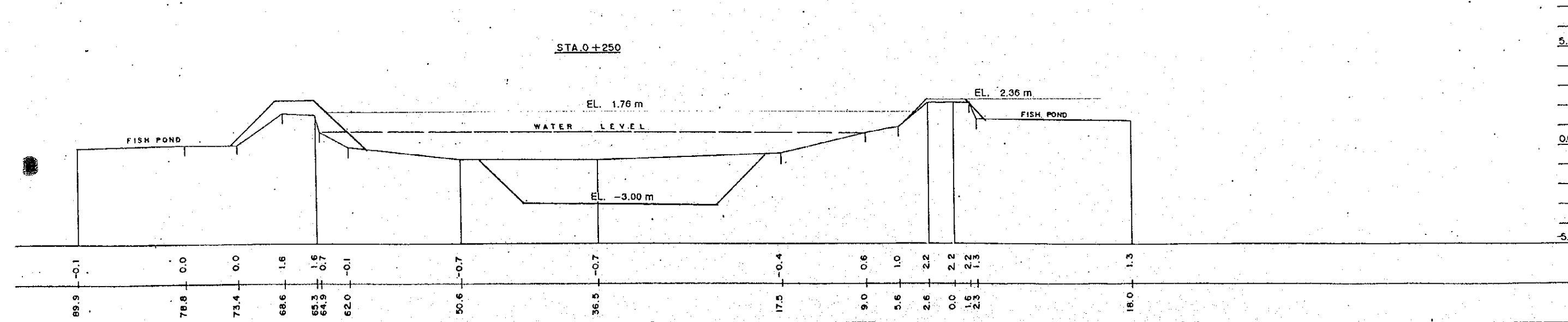
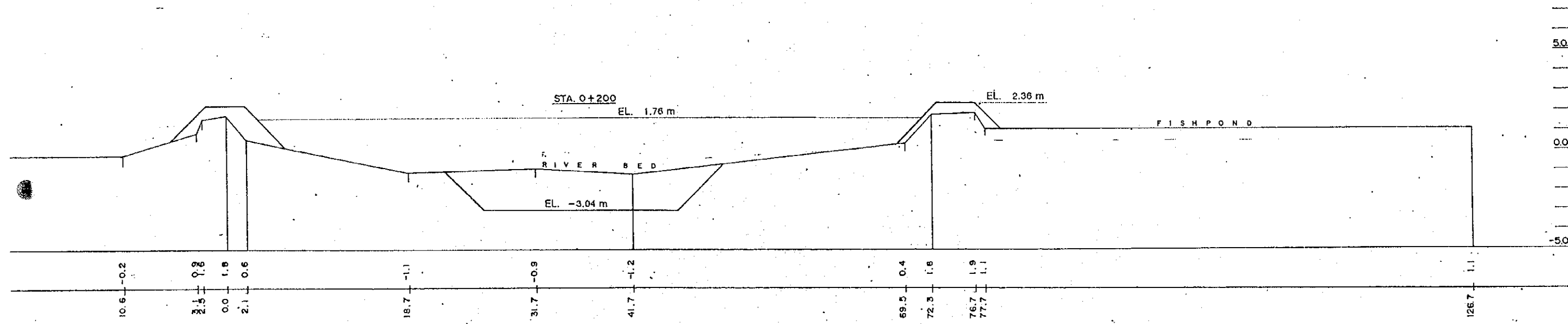
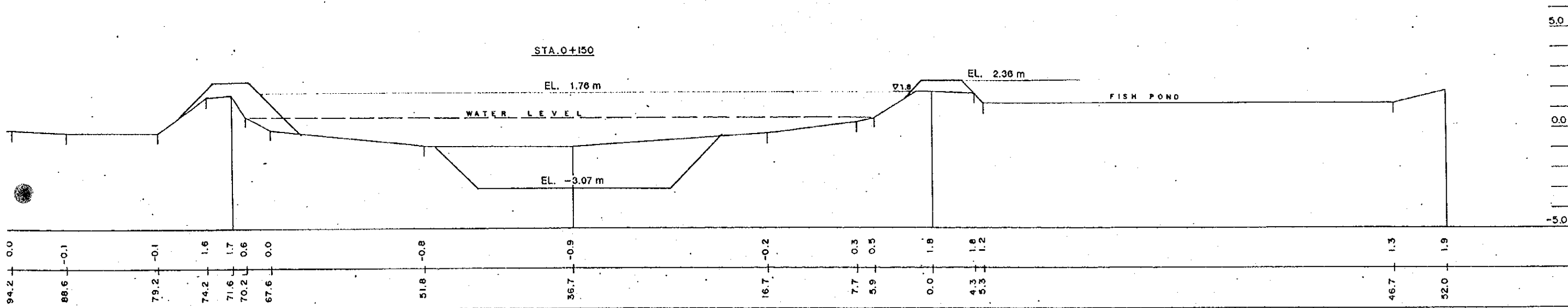
LONGITUDINAL PROFILE MANDURIAO RIVER, ILOILO CITY



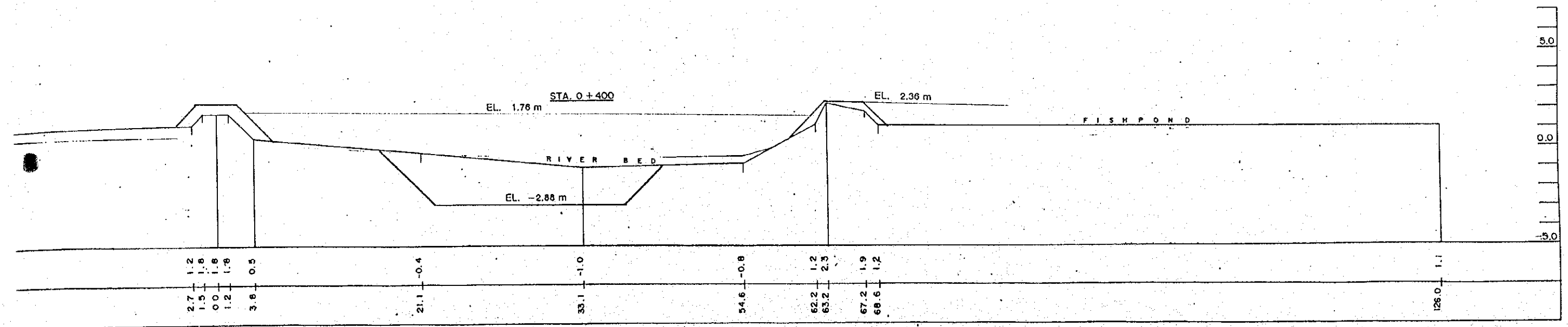
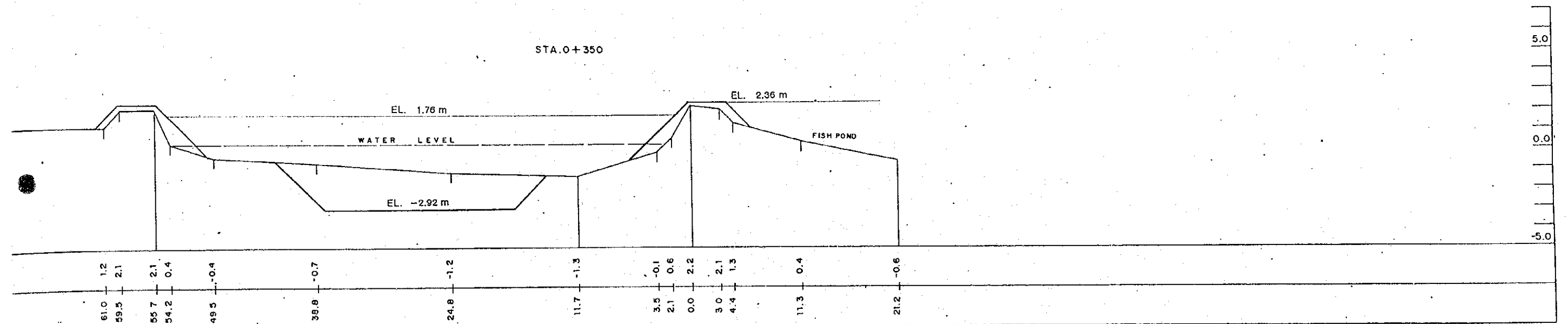
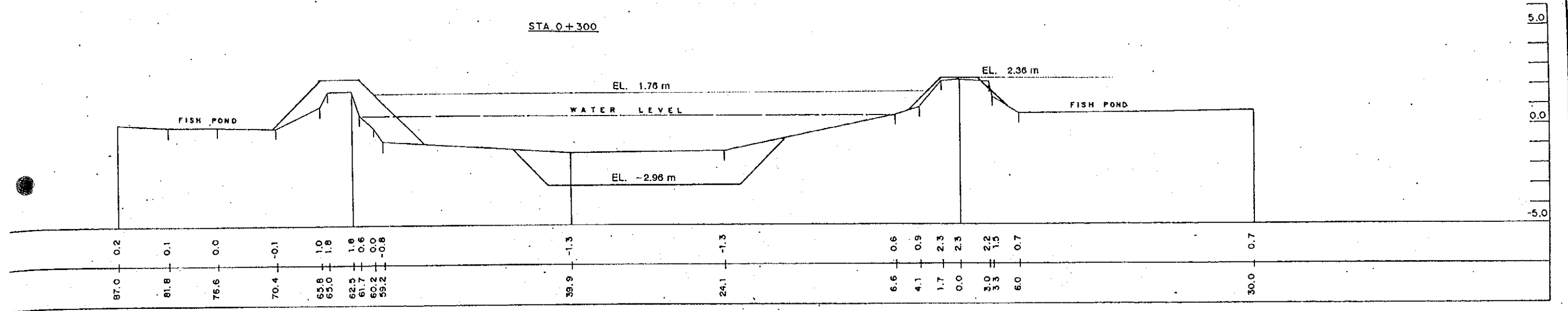
GRADIENT OF RIVERBED																																																			
DIKE CROWN	2.10	2.11	2.12	2.13	2.14	2.16	2.17	2.18	2.19	2.20	2.21	2.23	2.25	2.27	2.29	2.31	2.33	2.35	2.38	2.43	2.46	2.49	2.49	2.52	2.56	2.59	2.62	2.66	2.70	2.74	2.77	2.83	2.89	2.94	3.08	2.99	3.05	3.11	3.17	3.22	3.29	3.34	3.37	3.42	3.52	3.57	3.70	3.80	3.93	4.09	4.24
DESIGN HWL	1.50	1.51	1.52	1.53	1.54	1.56	1.57	1.58	1.59	1.60	1.61	1.63	1.65	1.67	1.69	1.71	1.73	1.75	1.78	1.83	1.86	1.89	1.89	1.92	1.96	1.99	2.02	2.06	2.10	2.14	2.17	2.23	2.29	2.34	2.48	2.39	2.45	2.51	2.57	2.62	2.69	2.74	2.77	2.82	2.92	2.97	3.10	3.20	3.33	3.49	3.64
DESIGN RIVERBED	-3.18	-3.11	-3.04	-2.96	-2.88	-2.81	-2.73	-2.65	-2.57	-2.48	-2.43	-2.34	-2.26	-2.18	-2.11	-2.03	-1.95	-1.87	-1.74	-1.64	-1.56	-1.49	-1.50	-1.42	-1.34	-1.26	-1.21	-1.11	-1.01	-0.93	-0.87	-0.80	-0.72	-0.65	-0.45	-0.58	-0.49	-0.41	-0.33	-0.25	-0.17	-0.09	-0.04	0.03	0.19	0.26	0.46	0.62	0.76	0.93	1.08
DEEPEST RIVERBED	-1.10	-0.90	-1.20	-1.32	-1.00	-1.37	-0.90	-0.83	-0.80	-1.11	-1.16	-0.92	-1.09	-1.04	-1.05	-1.46	-0.99	-1.42	-1.00	-1.42	-1.55	-1.31	-1.10	-0.43	-0.80	-1.04	-1.30	-1.04	-1.39	-1.35	-0.60	-0.70	-0.60	-1.00	-0.40	-0.51	-0.58	-1.85	-0.30	0.00	0.21	-0.26	0.20	-2.44	-0.54	-0.20	0.09	0.20	0.96	1.20	0.98
LEFT BANK	2.50	1.48	1.80	2.34	2.30	2.22	2.10	1.87	1.60	1.61	1.56	1.26	1.57	1.52	1.32	1.79	1.36	1.35	1.80	2.24	2.36	1.67	2.20	2.11	2.40	2.08	2.67	1.31	0.55	1.05	2.00	3.40	2.50	1.30	1.80	1.63	1.36	1.50	3.00	0.00	2.59	1.68	2.90	1.96	1.21	1.90	1.50	3.50	3.09	3.00	4.84
RIGHT BANK	1.80	2.08	1.80	1.78	1.80	1.91	2.10	1.77	1.80	1.35	0.90	1.88	1.11	1.39	1.35	1.89	1.13	1.19	1.80	0.71	0.84	0.70	2.10	0.99	0.80	1.79	0.63	2.95	0.88	0.62	2.90	1.40	2.50	2.60	1.90	1.17	2.82	1.01	0.89	1.19	2.78	2.80	0.65	3.50	1.90	2.37	1.40	1.78	3.80	2.75	
STATION No.	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.92	0.99	1.11	1.21	1.31	1.41	1.51	1.61	1.71	1.88	2.02	2.12	2.22	2.20	2.30	2.40	2.51	2.58	2.71	2.83	2.94	3.01	3.11	3.21	3.30	3.36	3.39	3.51	3.61	3.72	3.82	3.93	4.04	4.09	4.14	4.24	4.29	4.42	4.52	4.62	4.72	4.82



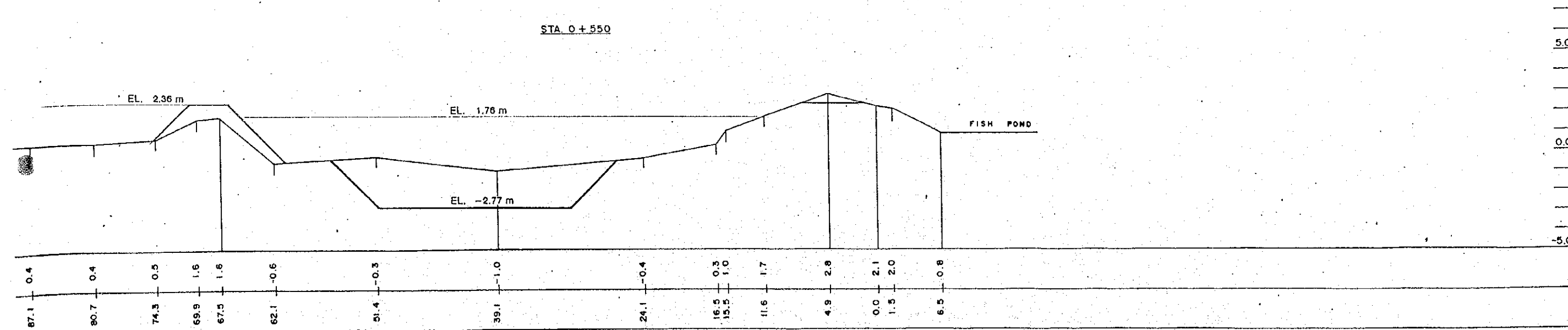
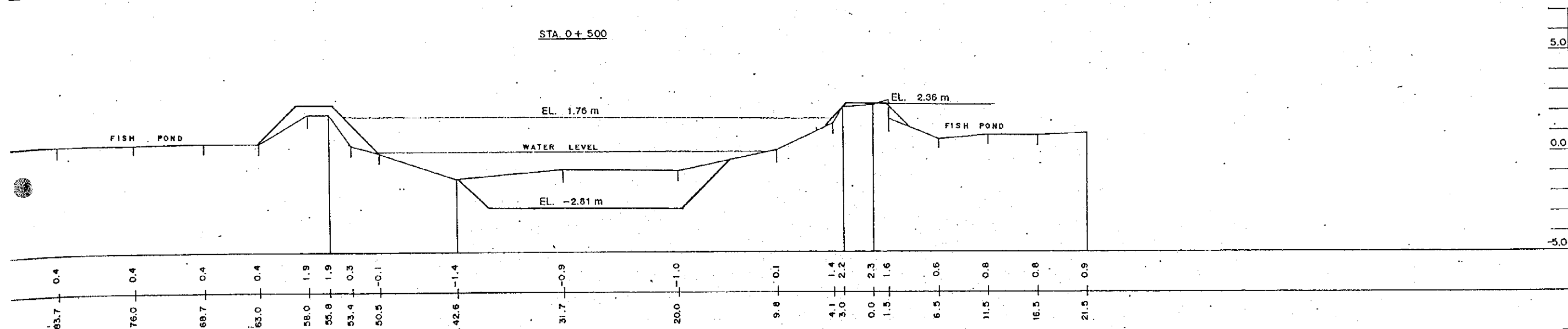
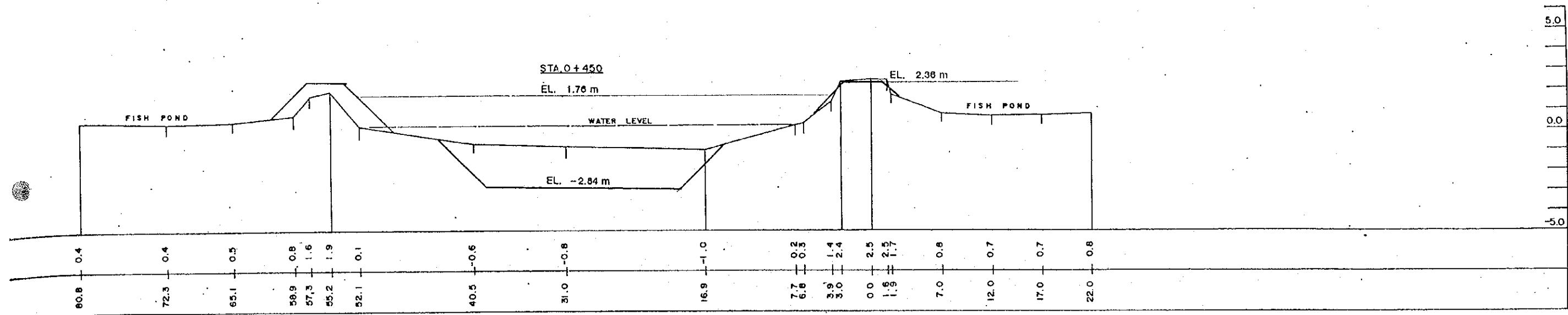
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO - PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY
	SHEET CONTENTS: STA. 0+000, 0+050, 0+100	
	SCALE: H=1:400 V=1:200	DATE: JULY 1994



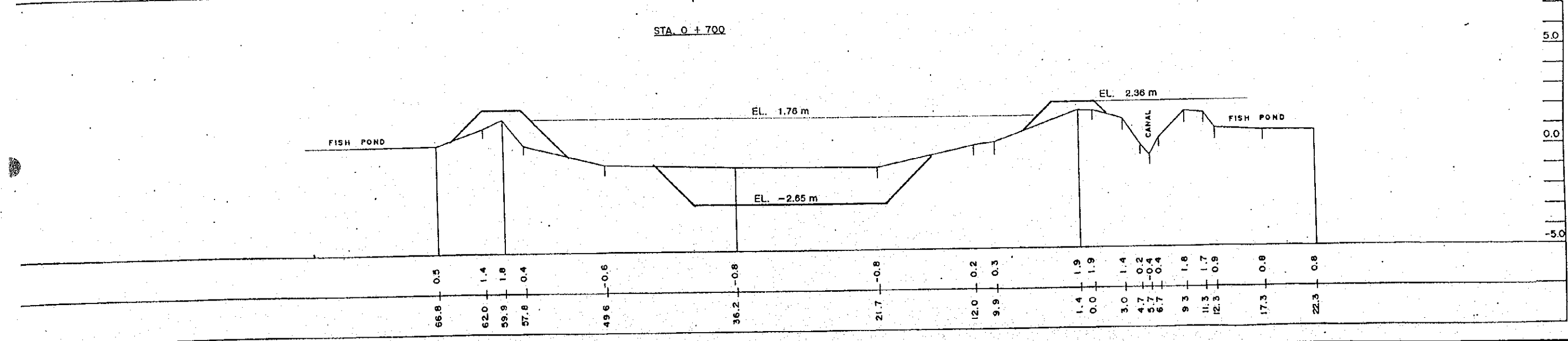
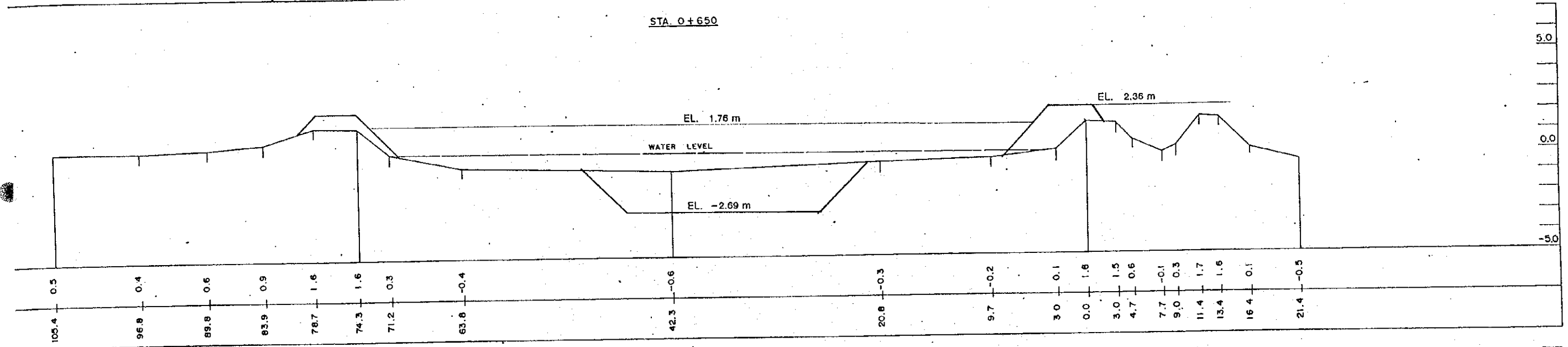
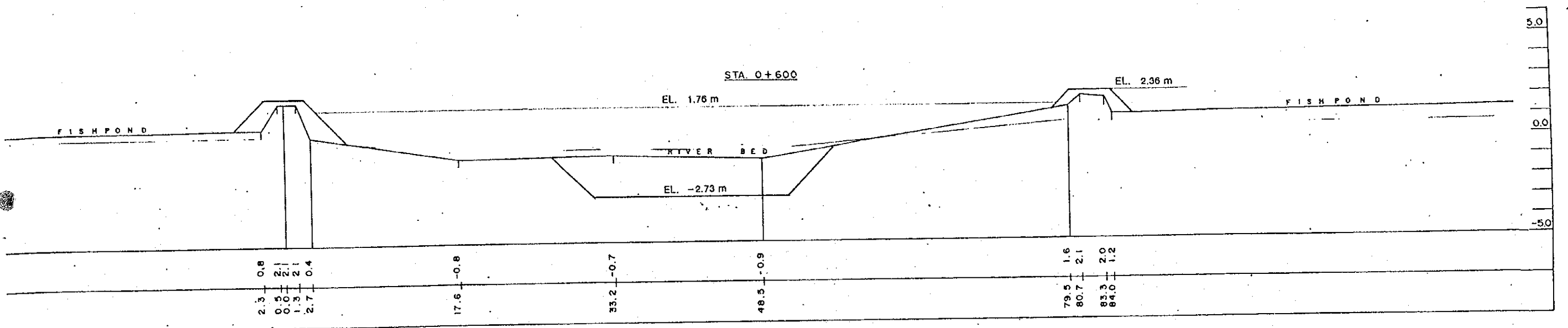
<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>SUBJECT: MANDURIAO - PANDAN CREEK (ROUTE 1)</p>	<p>CITY NAME: ILOILO CITY</p>	
	<p>SHEET CONTENTS: STA. 0+150, 0+200, 0+250</p>	<p>SCALE: H=1:400 V=1:200</p>	<p>DATE: JULY 1994</p>



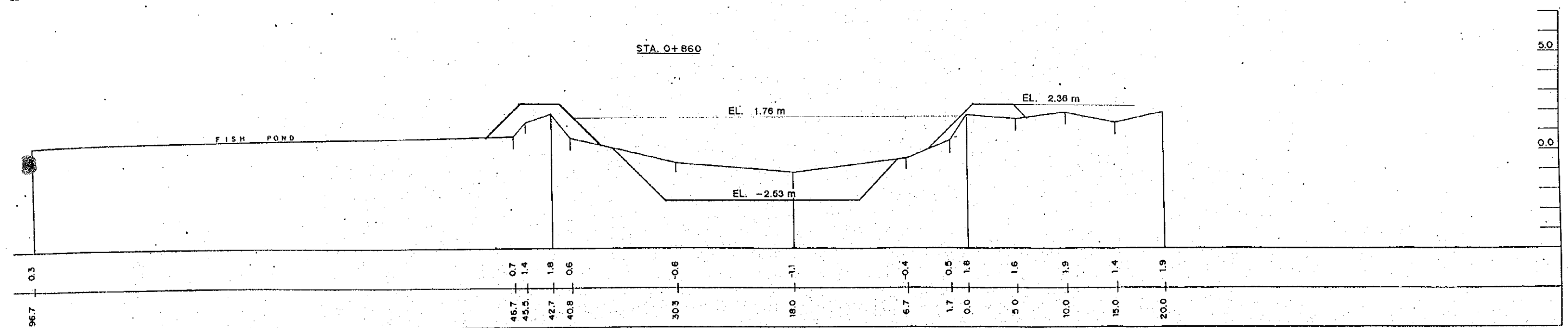
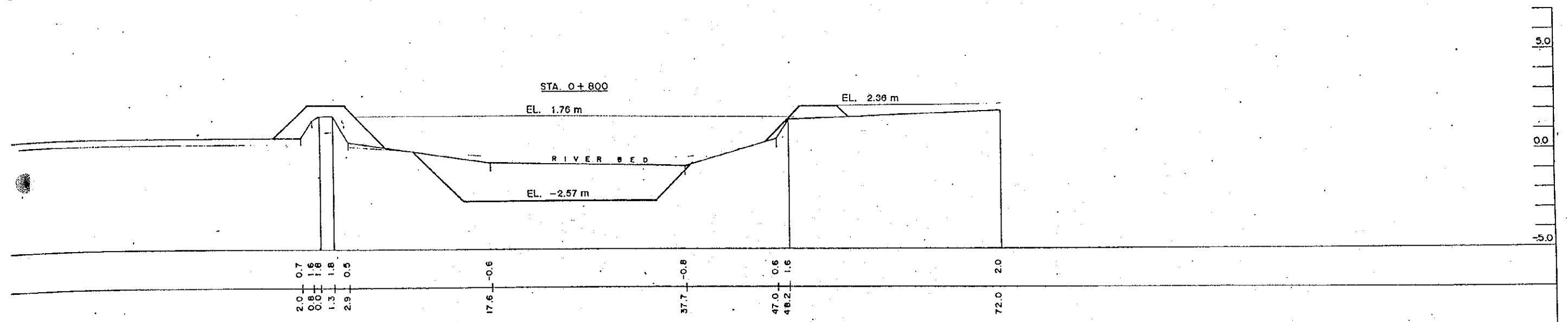
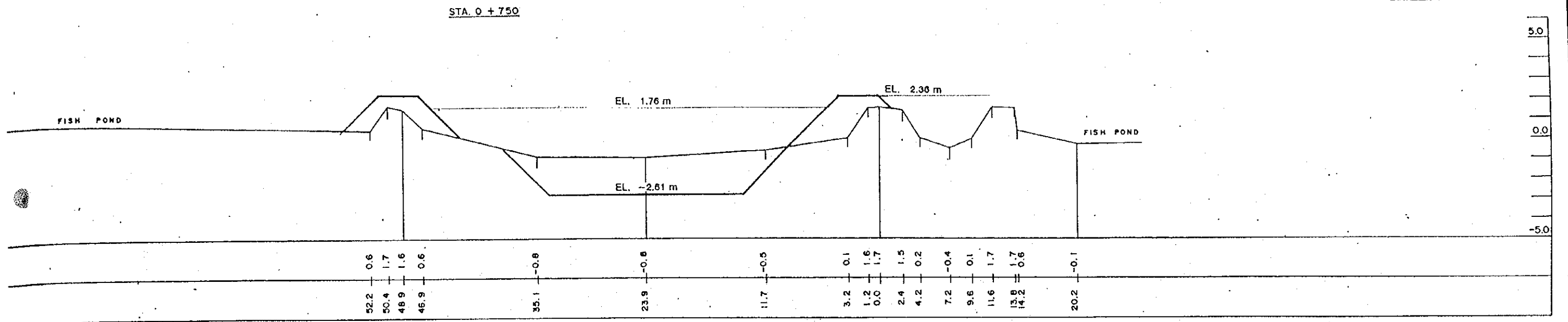
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO - PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY
	SHEET CONTENTS: STA. 0+300, 0+350, 0+400	SCALE H=1:400 V=1:200
		SHEET NO. I-DRI-29-3



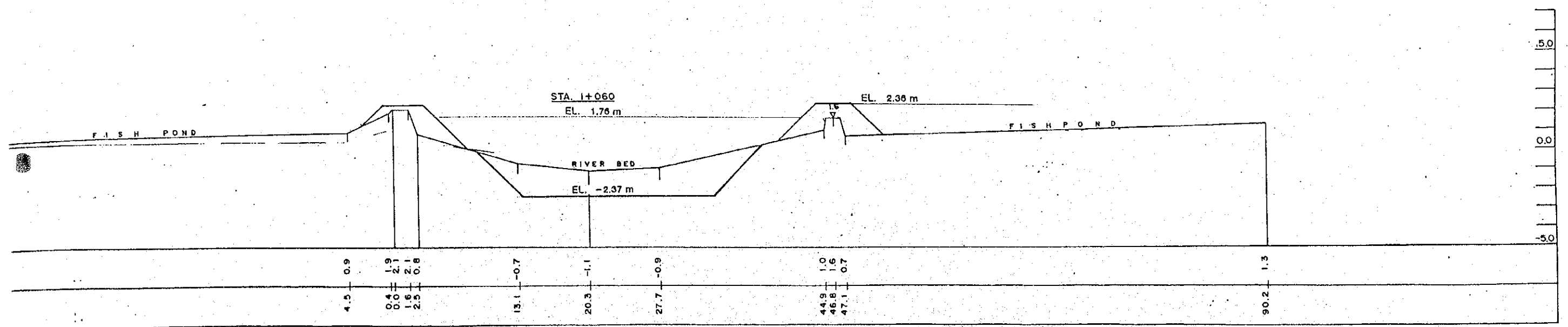
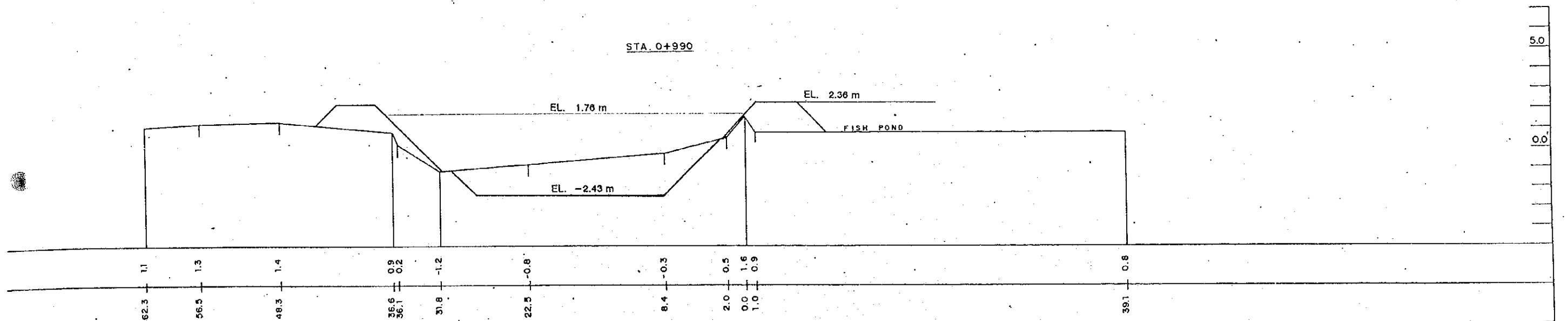
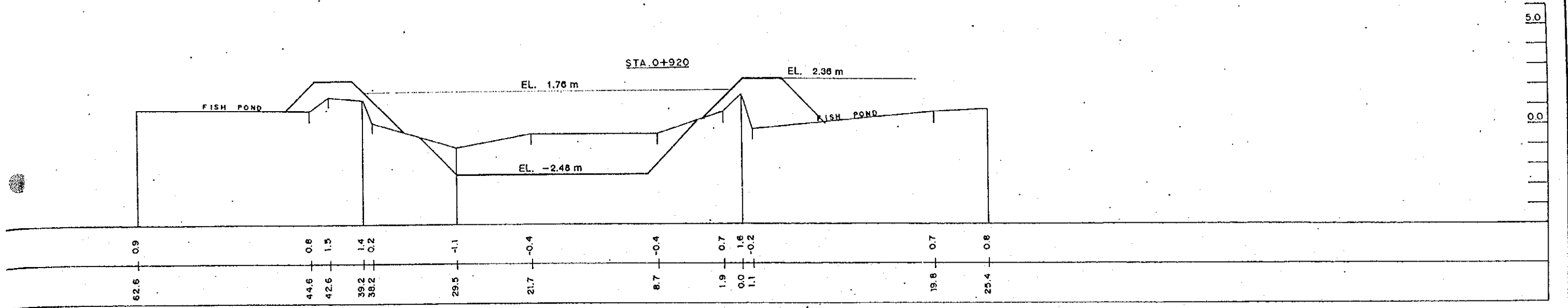
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO-PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY
	SHEET CONTENTS: STA. 0+450, 0+500, 0+550	
	SCALE: H=1:400 V=1:200	DATE: JULY 1994



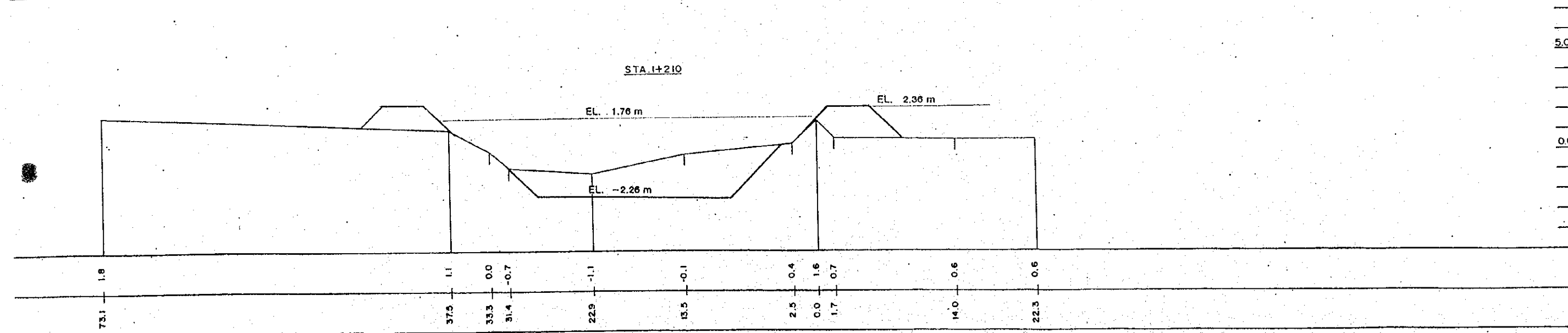
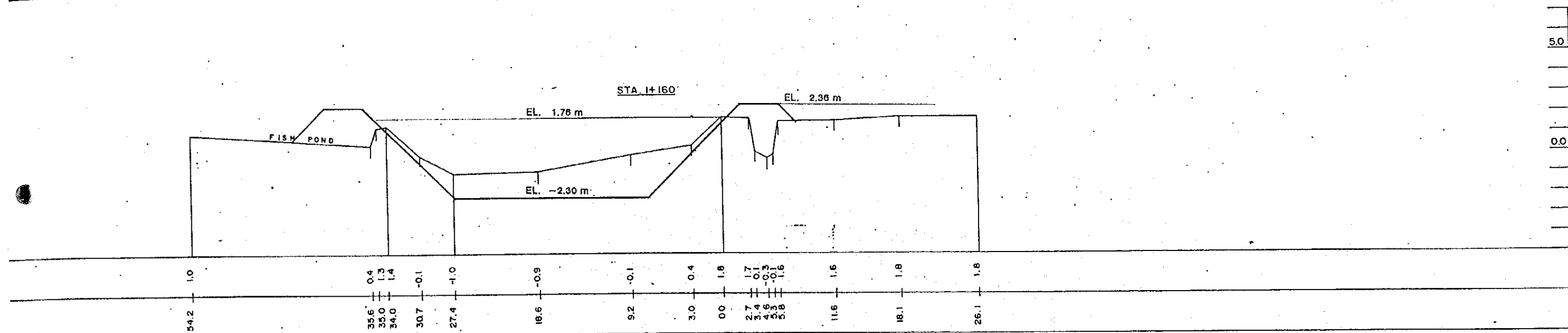
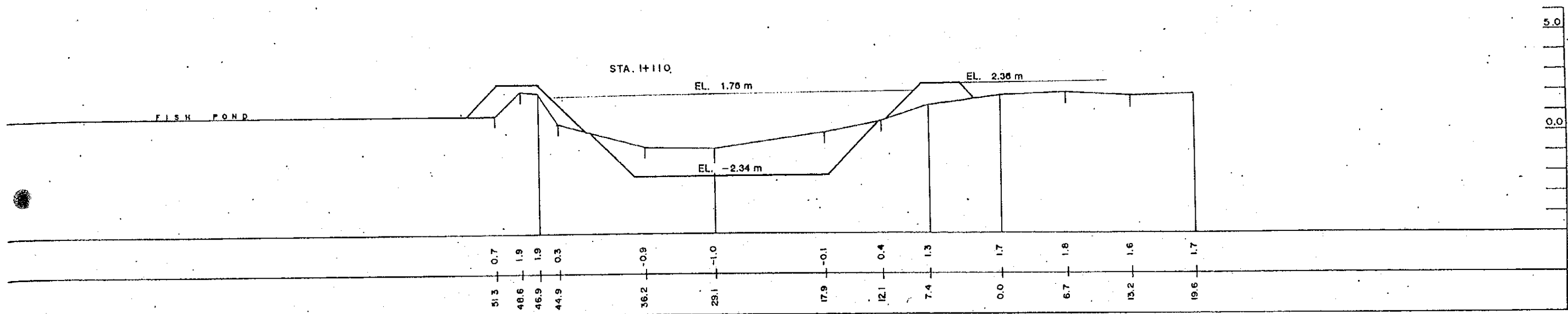
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO-PANGAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY
	SHEET CONTENTS: STA. 0+600, 0+650, 0+700	
	SCALE: H=1:400 V=1:200	DATE: JULY 1994



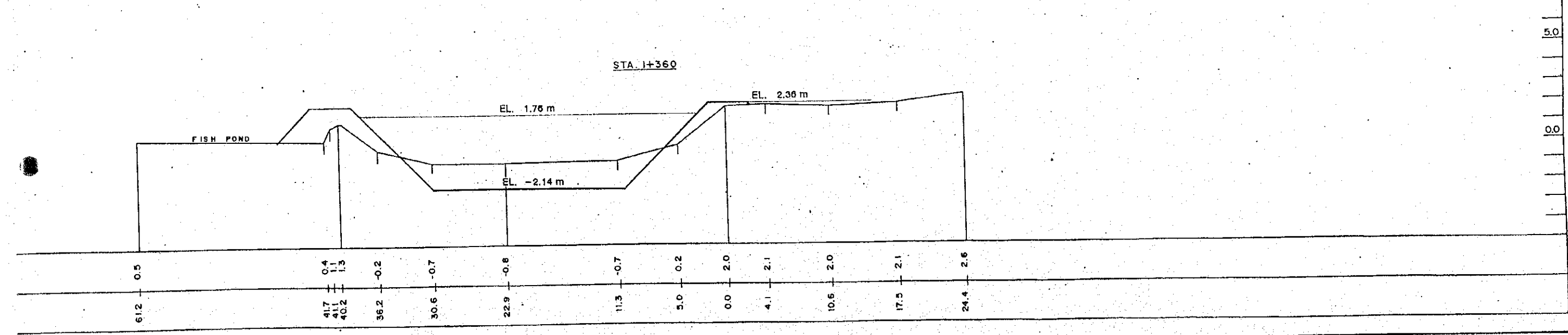
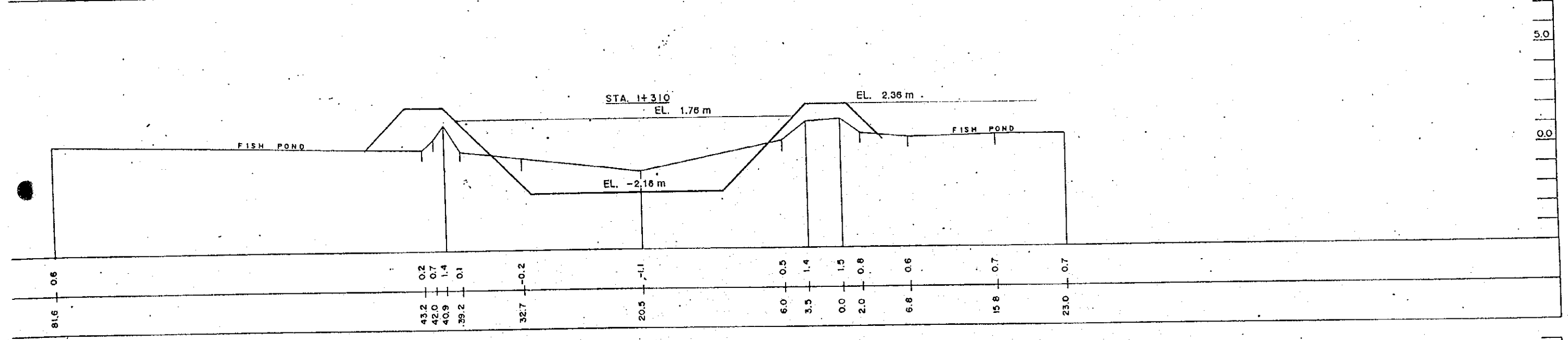
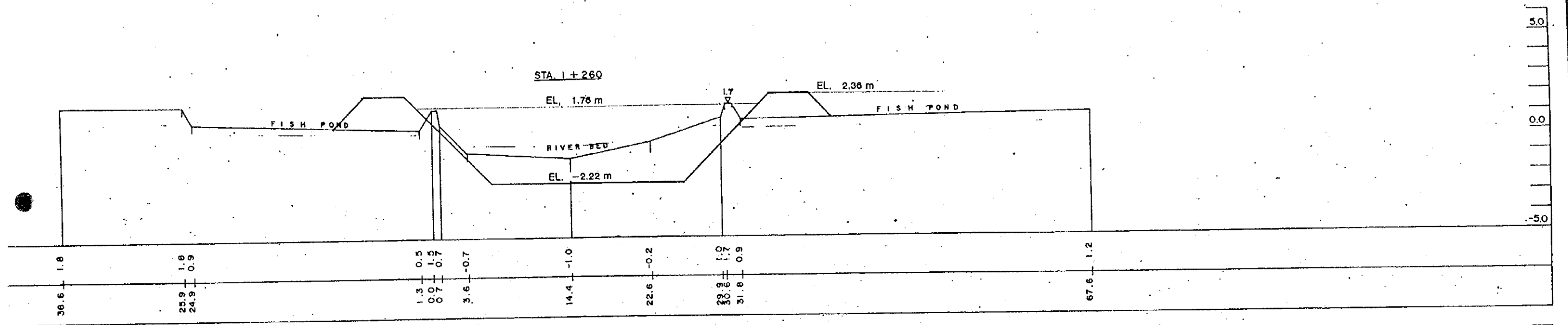
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS		SUBJECT: MANDURIAO - PANDAN CREEK (ROUTE 1)		CITY NAME: ILOILO CITY	
JAPAN INTERNATIONAL COOPERATION AGENCY		SHEET CONTENTS: STA. 0+750, 0+800, 0+860		SCALE H=1:400 V=1:200	
		DATE: JULY 1994		SHEET NO. I-DR1-29-6	



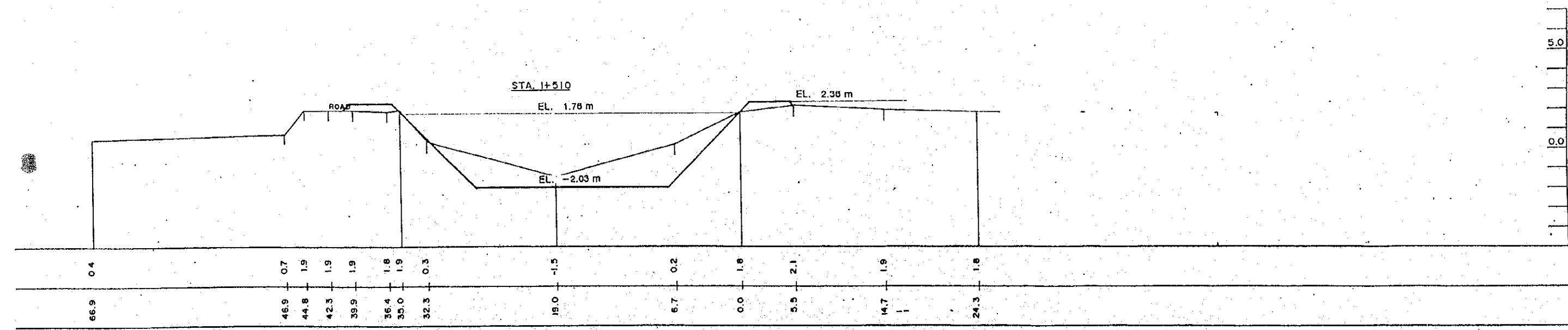
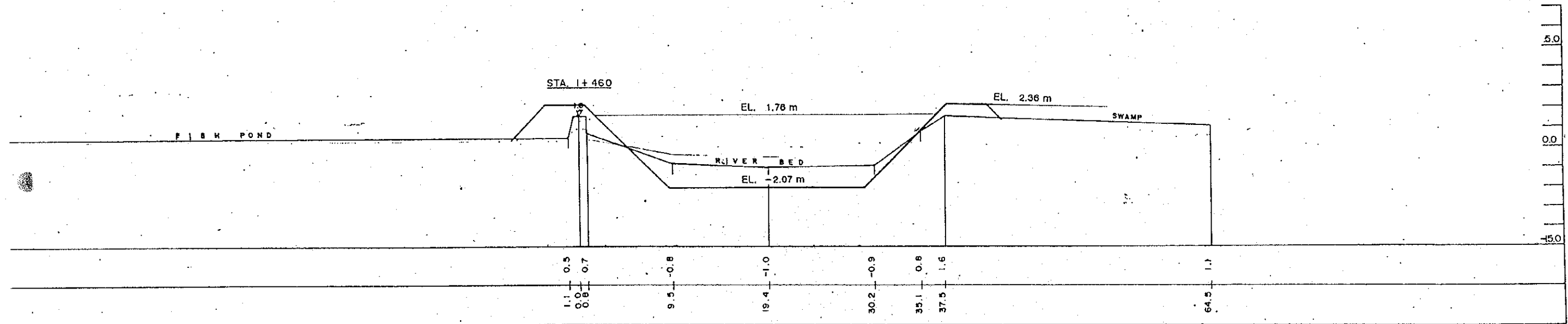
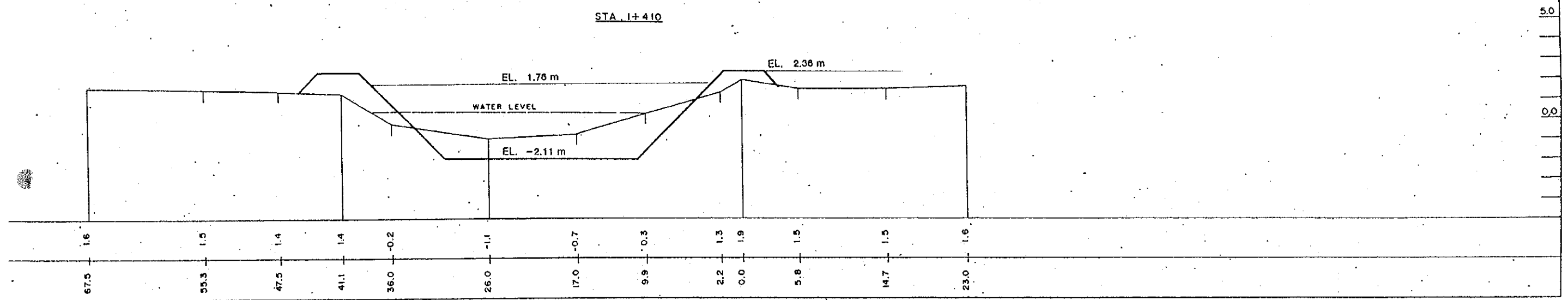
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO - PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY
	SHEET CONTENTS: STA. 0+920, 0+990, 1+060	
	SCALE: H=1:400 V=1:200	DATE: JULY 1994



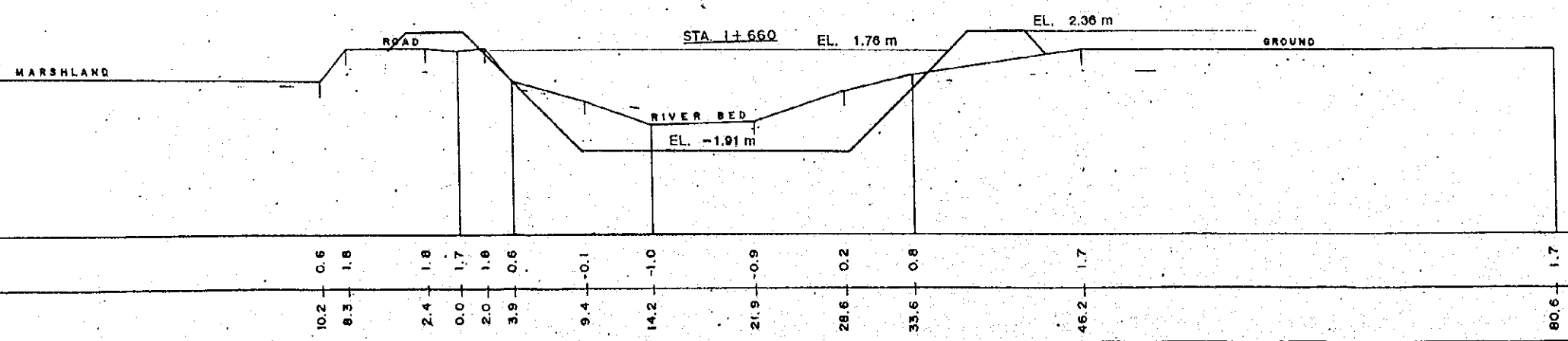
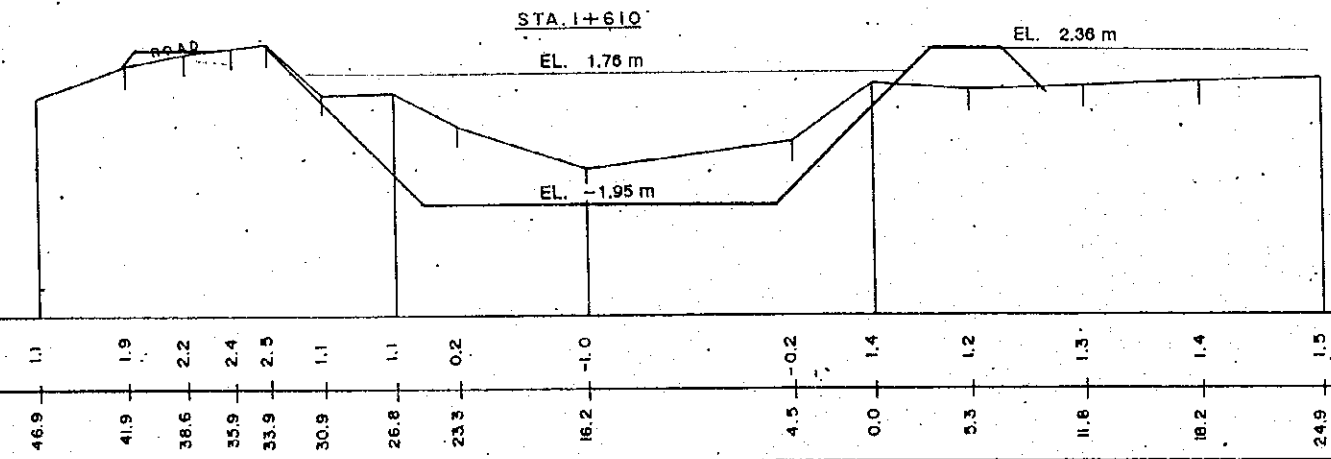
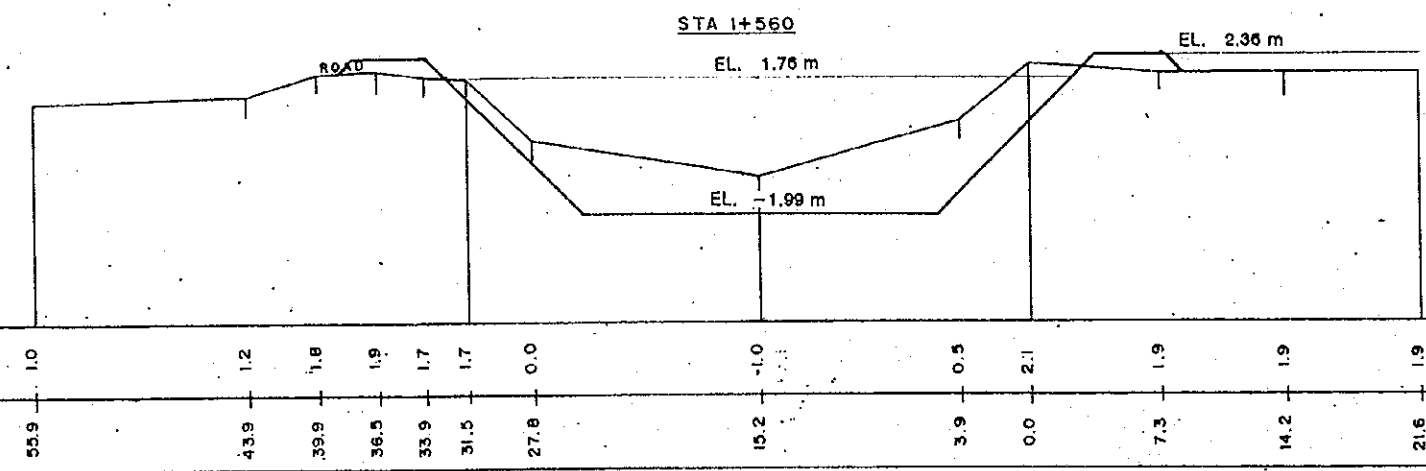
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO - PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY	
	SHEET CONTENTS: STA. 1+110, 1+160, 1+210	SCALE: H=1:400 V=1:200	DATE: JULY 1994



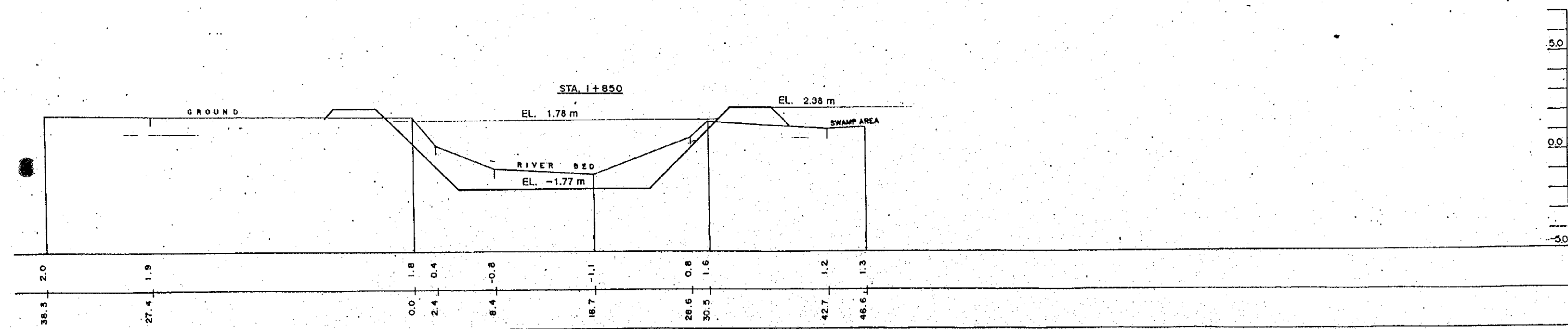
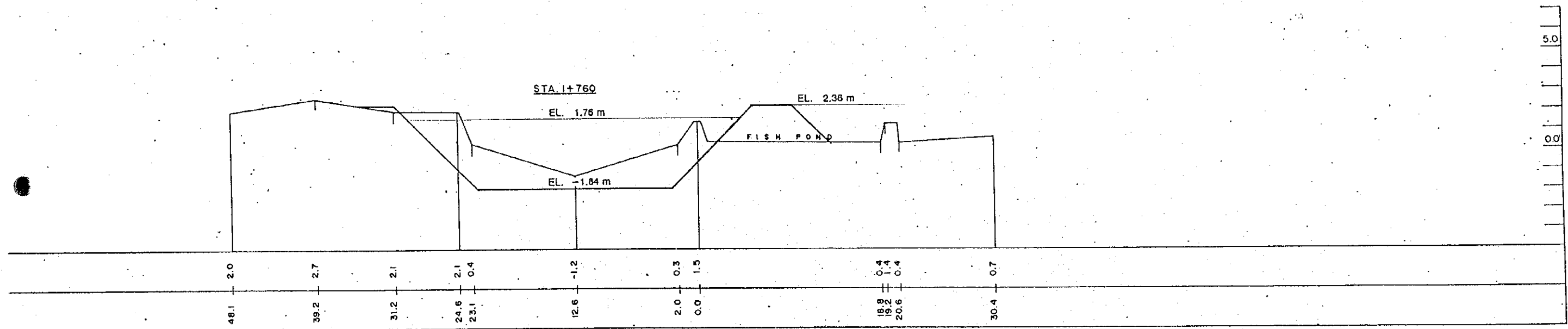
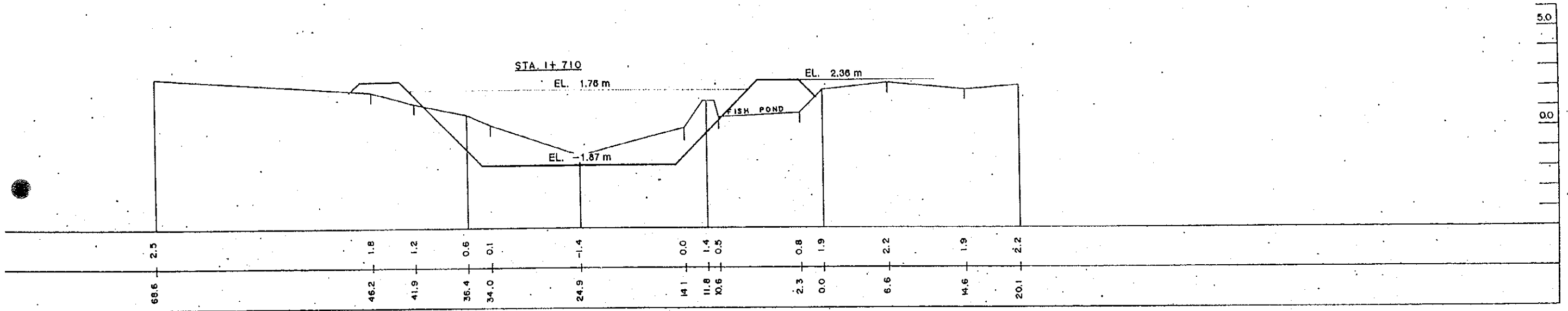
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO-PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY
	SHEET CONTENTS: STA. 1+260, 1+310, 1+360	
	SCALE: H=1:400 V=1:200	DATE: JULY 1994



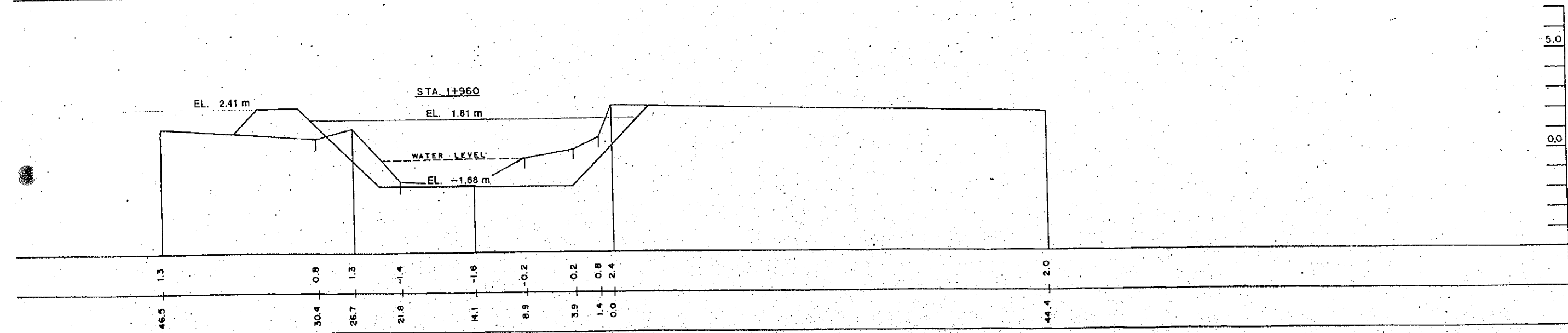
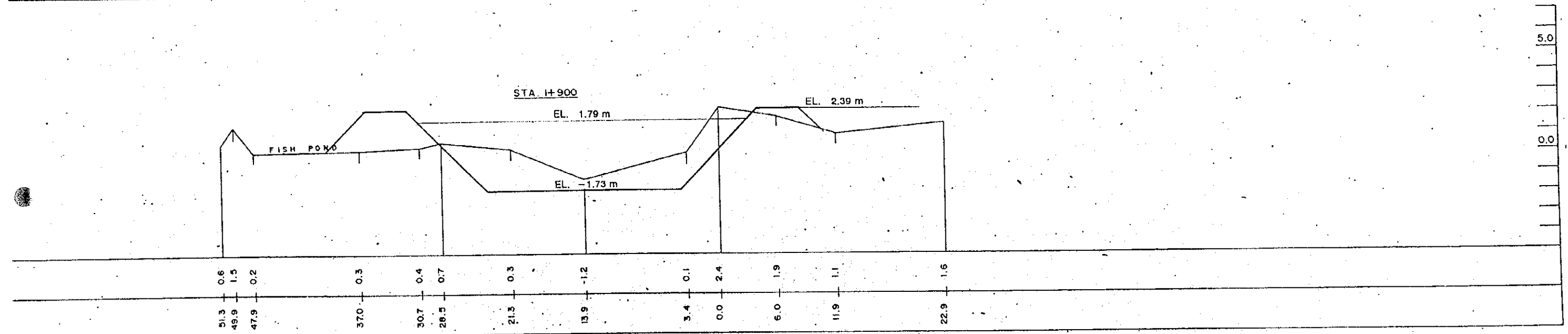
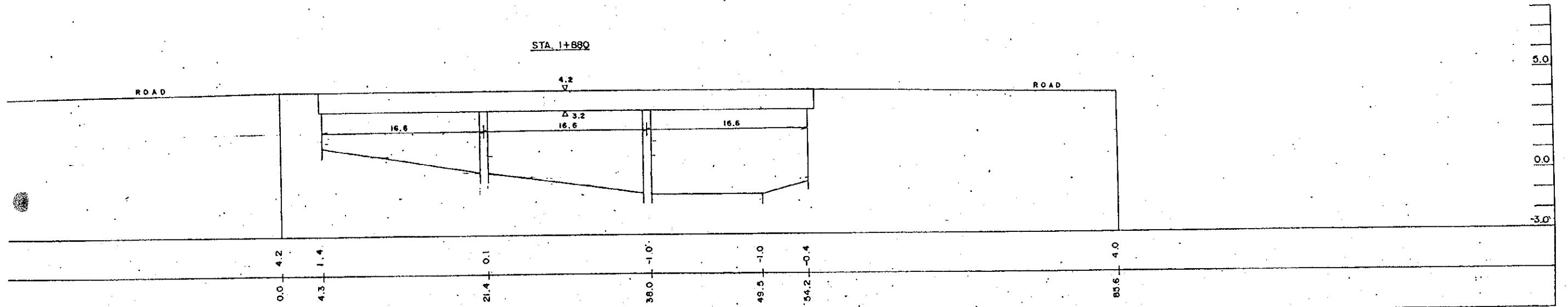
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO - PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY
	SHEET CONTENTS: STA. 1+410, 1+460, 1+510	SCALE: H=1:400 V=1:200



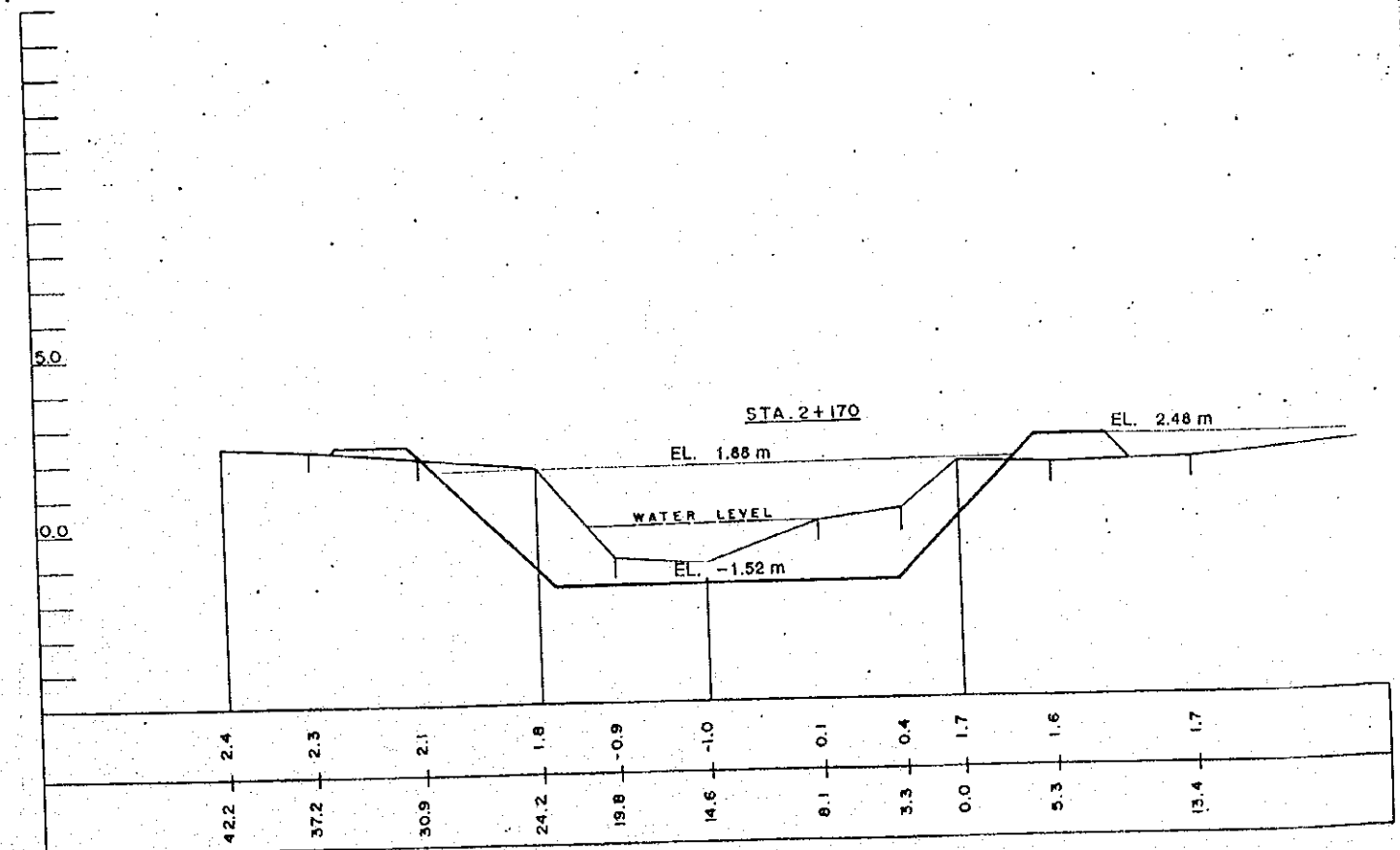
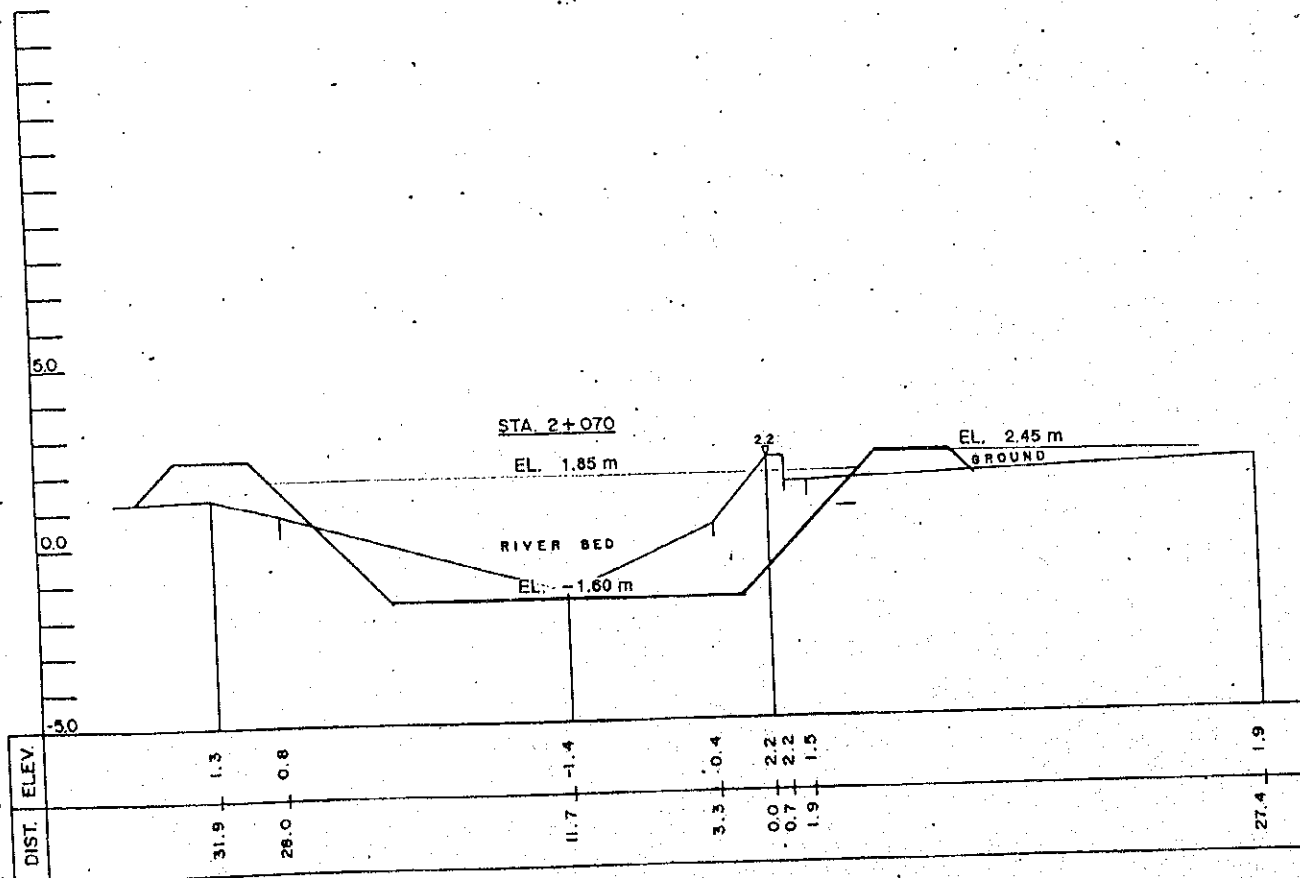
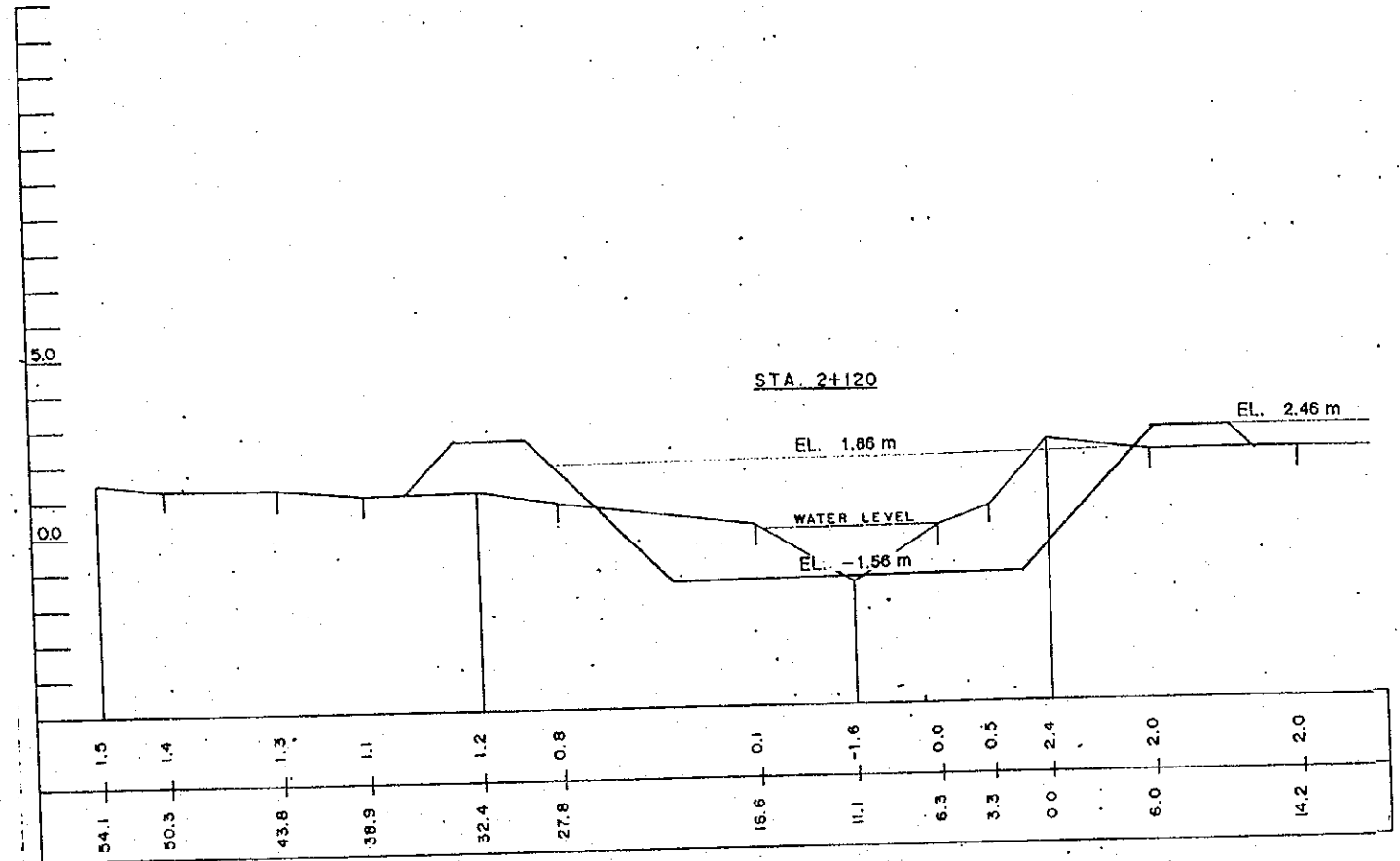
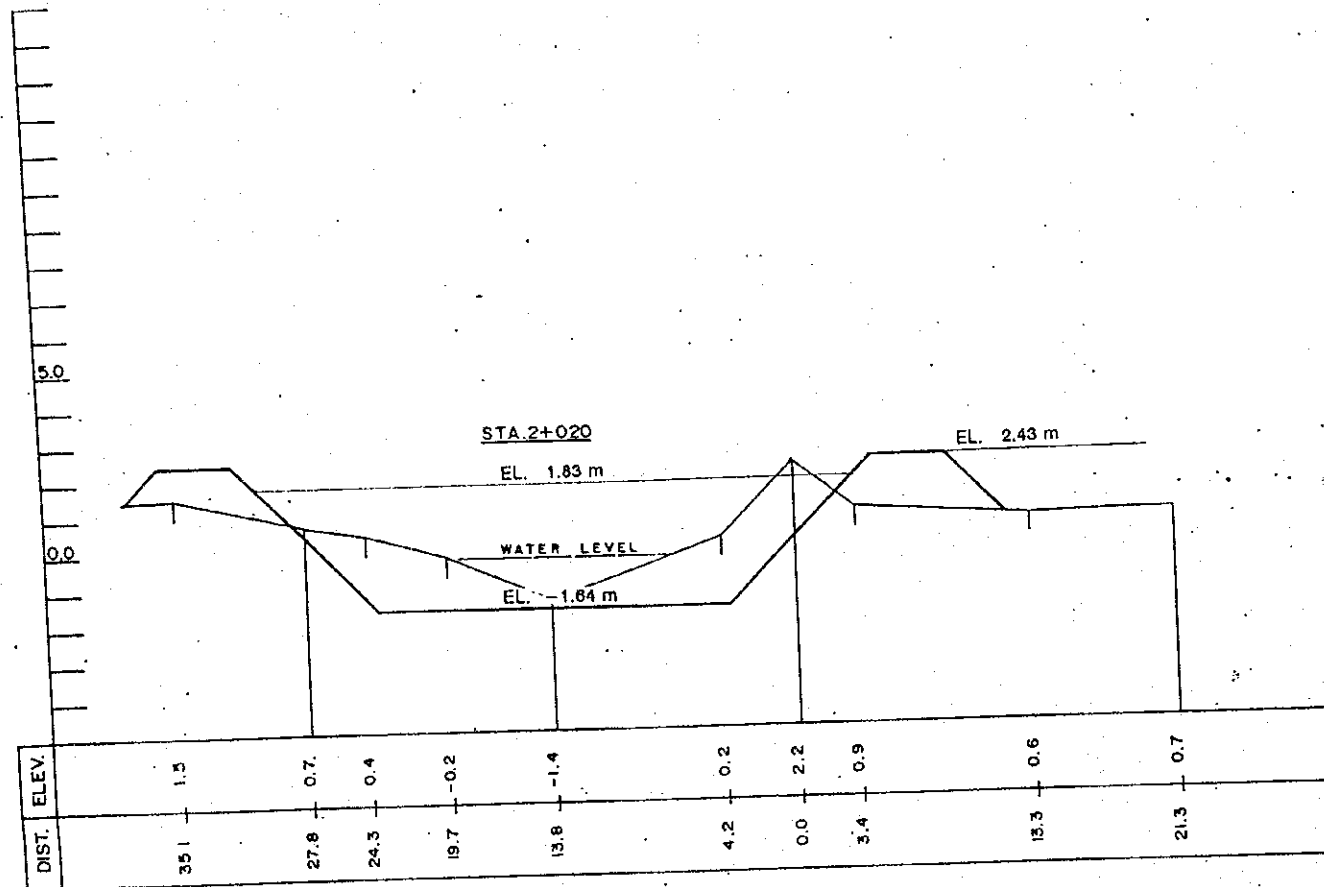
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO-PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY
	SHEET CONTENTS: STA. 1+560, 1+610, 1+660	
	SCALE: H=1:400 V=1:200	DATE: JULY 1994



THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO - PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY
	SHEET CONTENTS: STA. 1+710, 1+760, 1+850	
	SCALE (H=1:400 V=1:200)	DATE JULY 1994

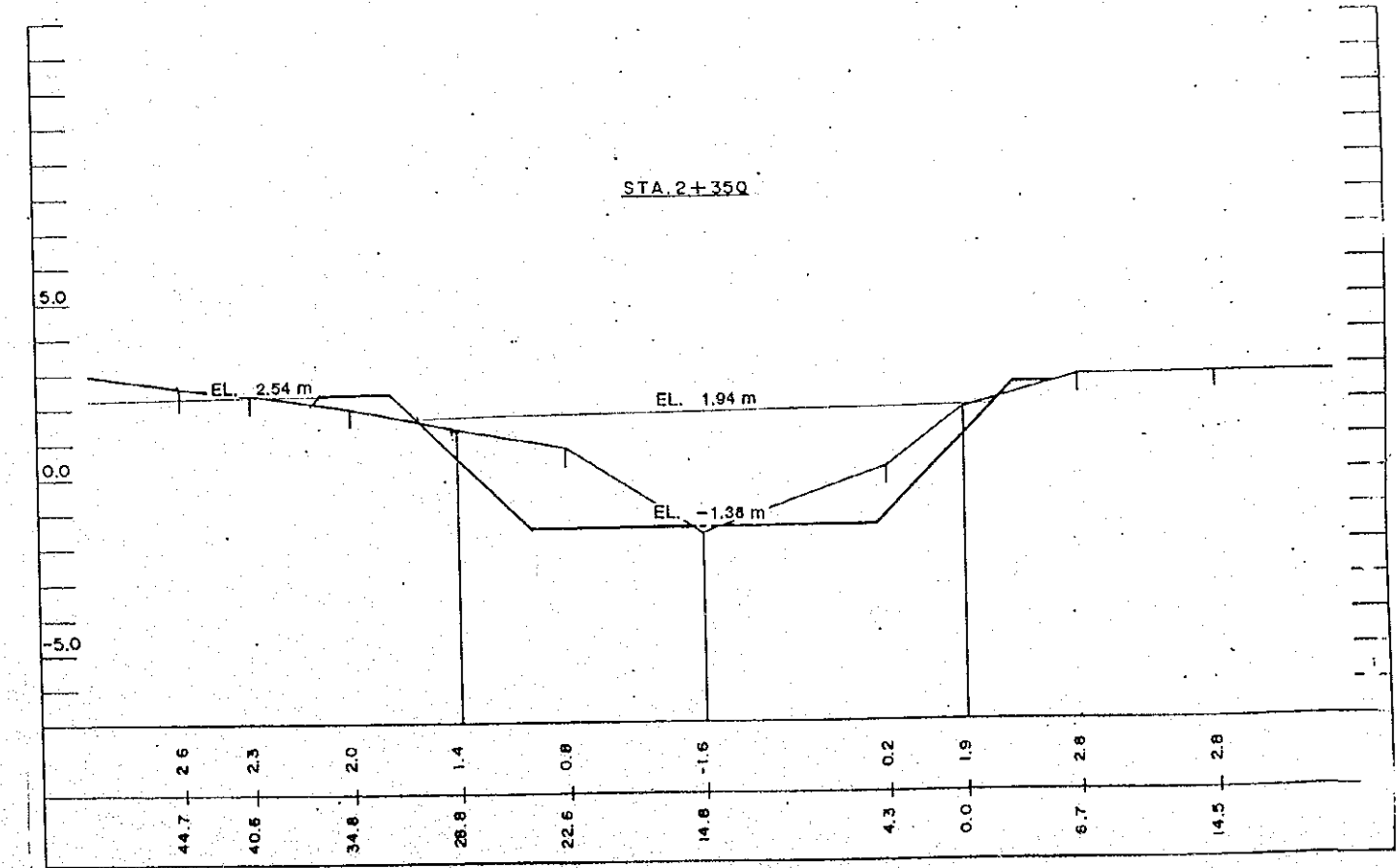
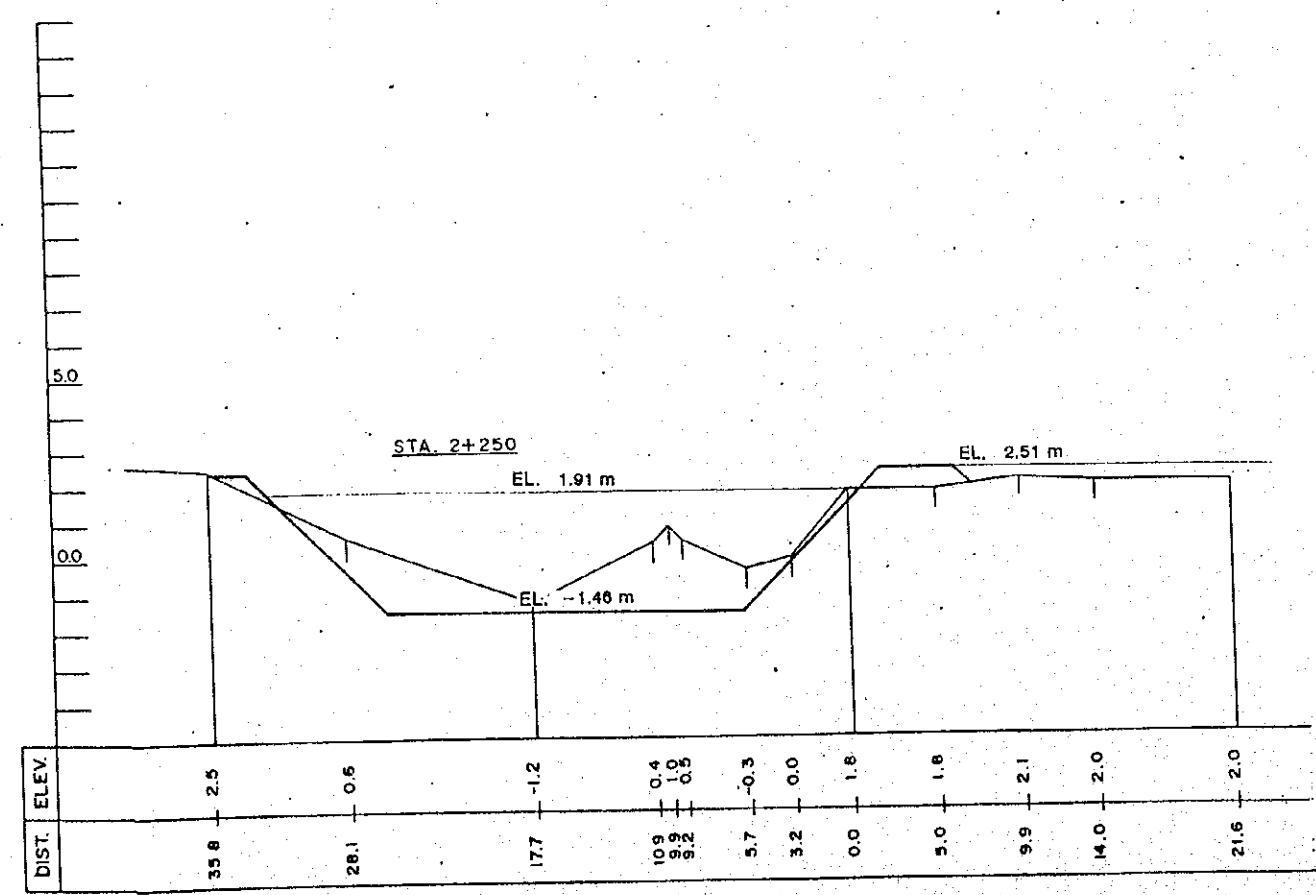
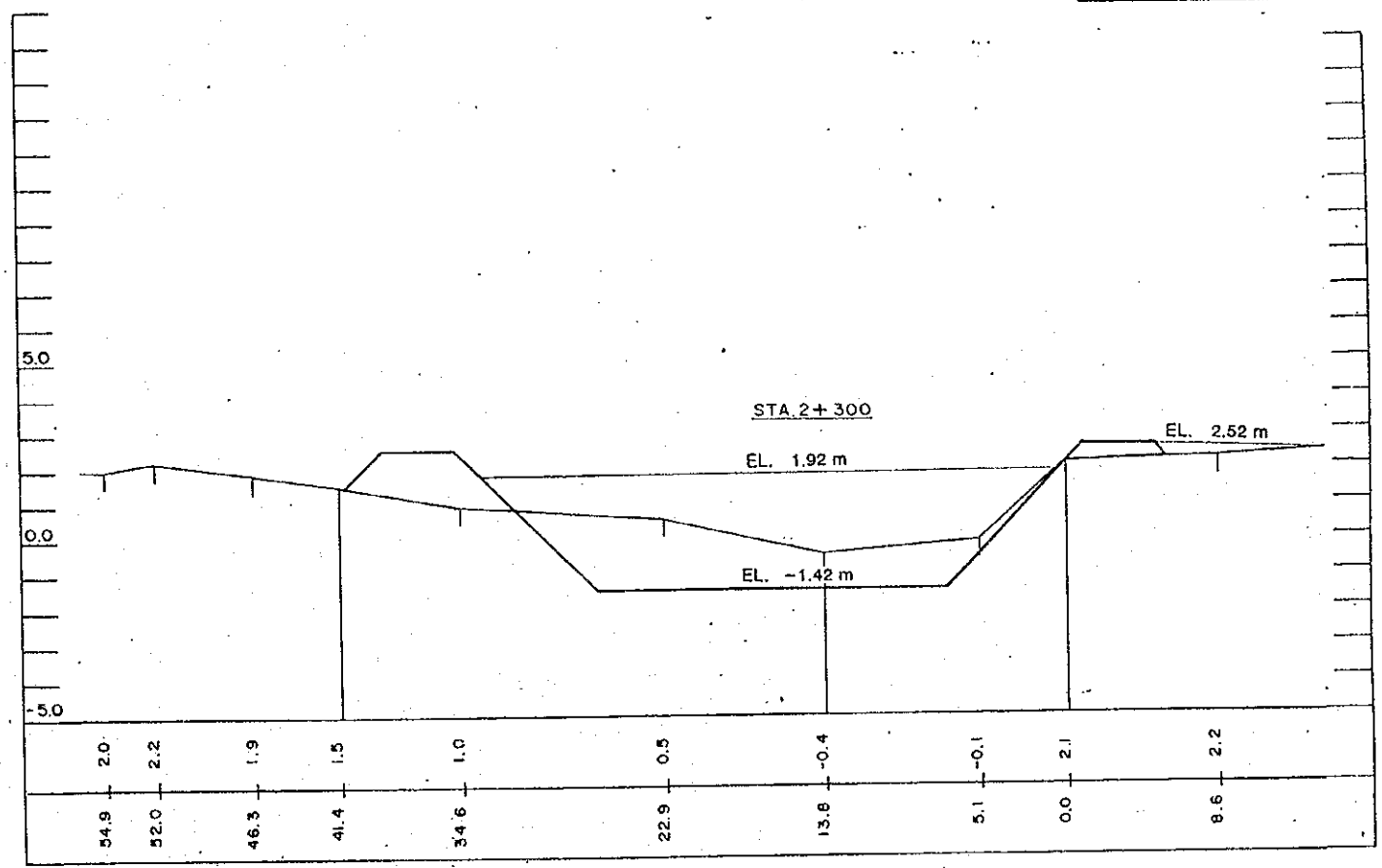
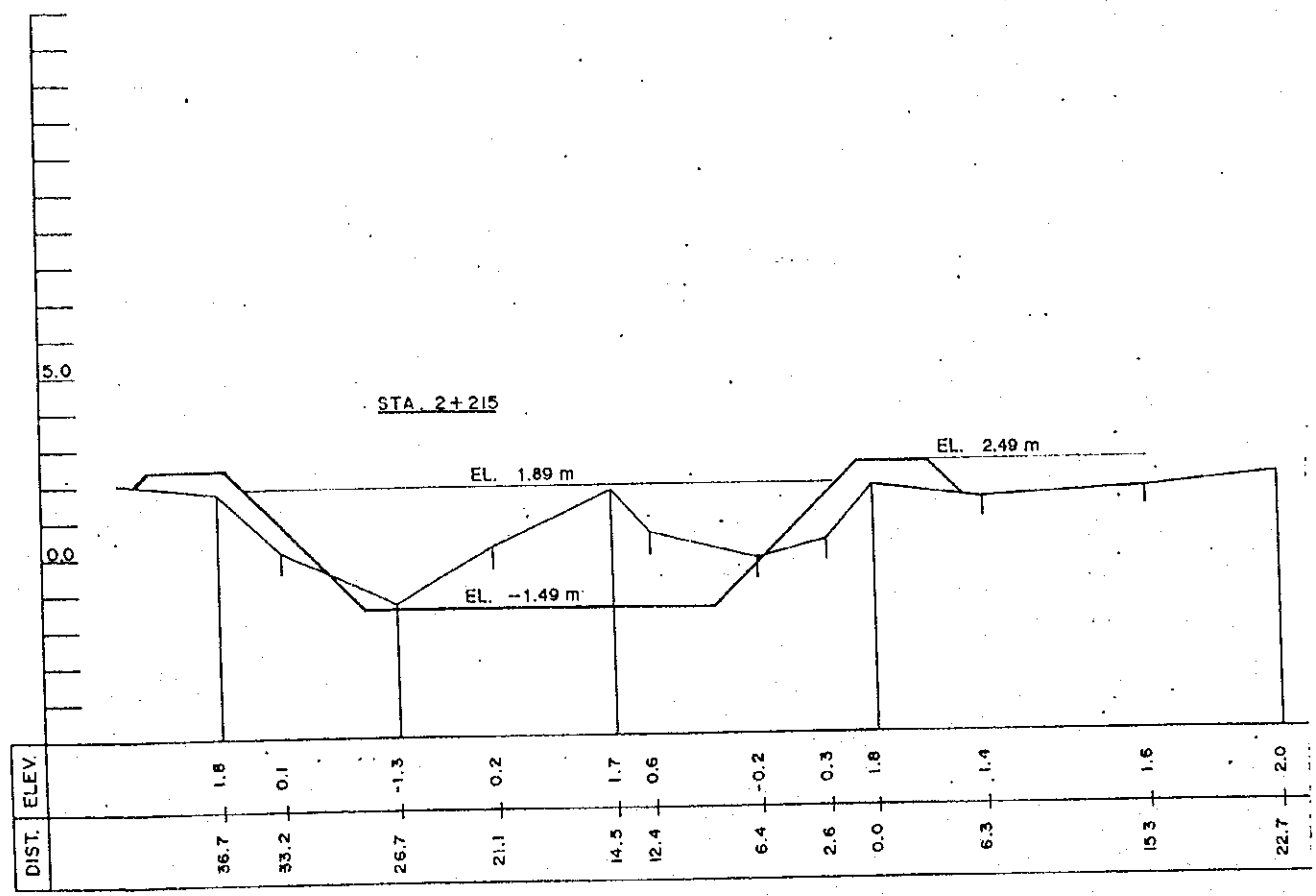


<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>SUBJECT: MANDURIAO-PANDAN CREEK (ROUTE 1) CITY NAME: ILOILO CITY</p>	
	<p>SHEET CONTENTS: STA. 1+880, 1+900, 1+960</p>	<p>SCALE: H=1:400 V=1:200 DATE: JULY 1994 SHEET NO. I-DR1-29-13</p>

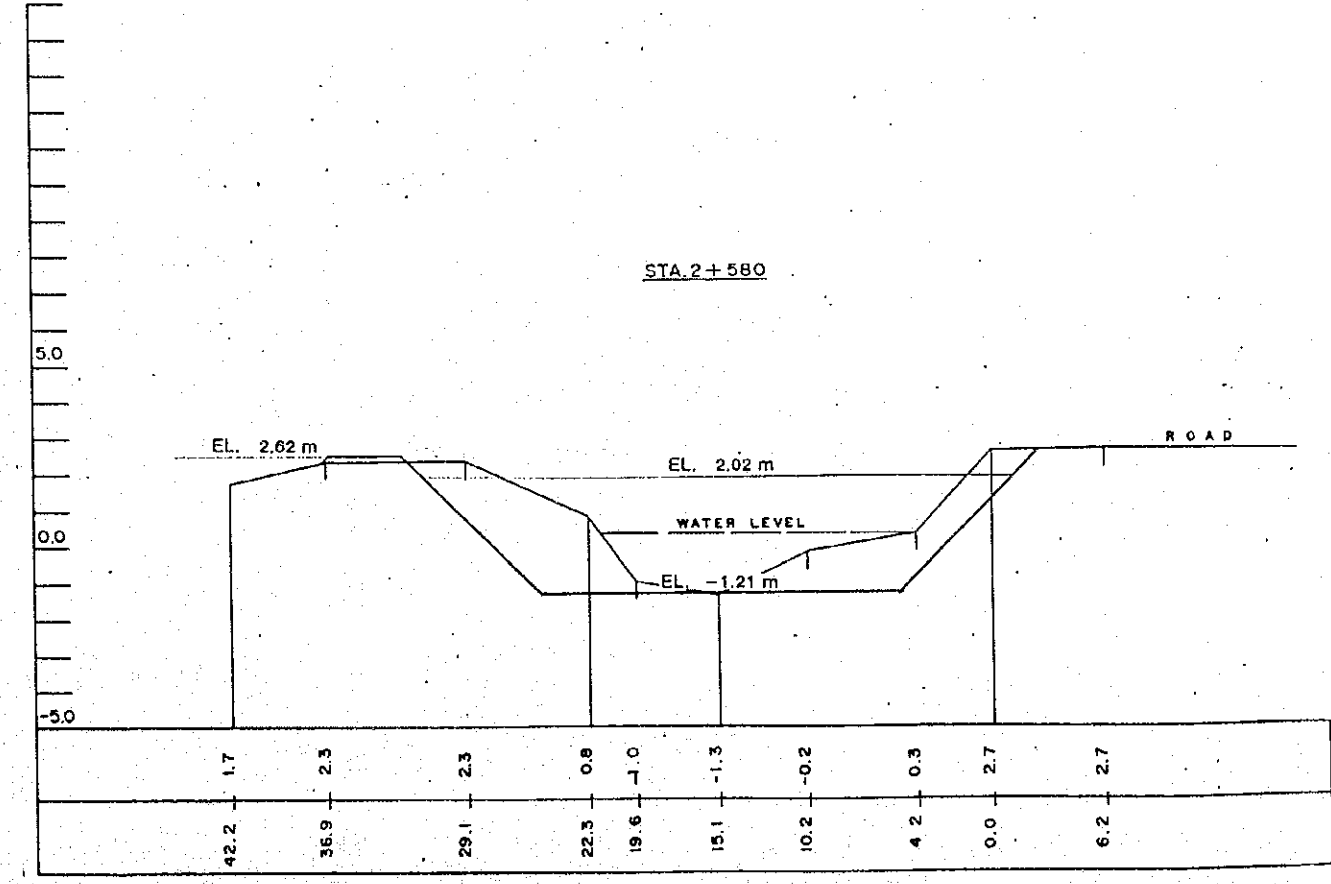
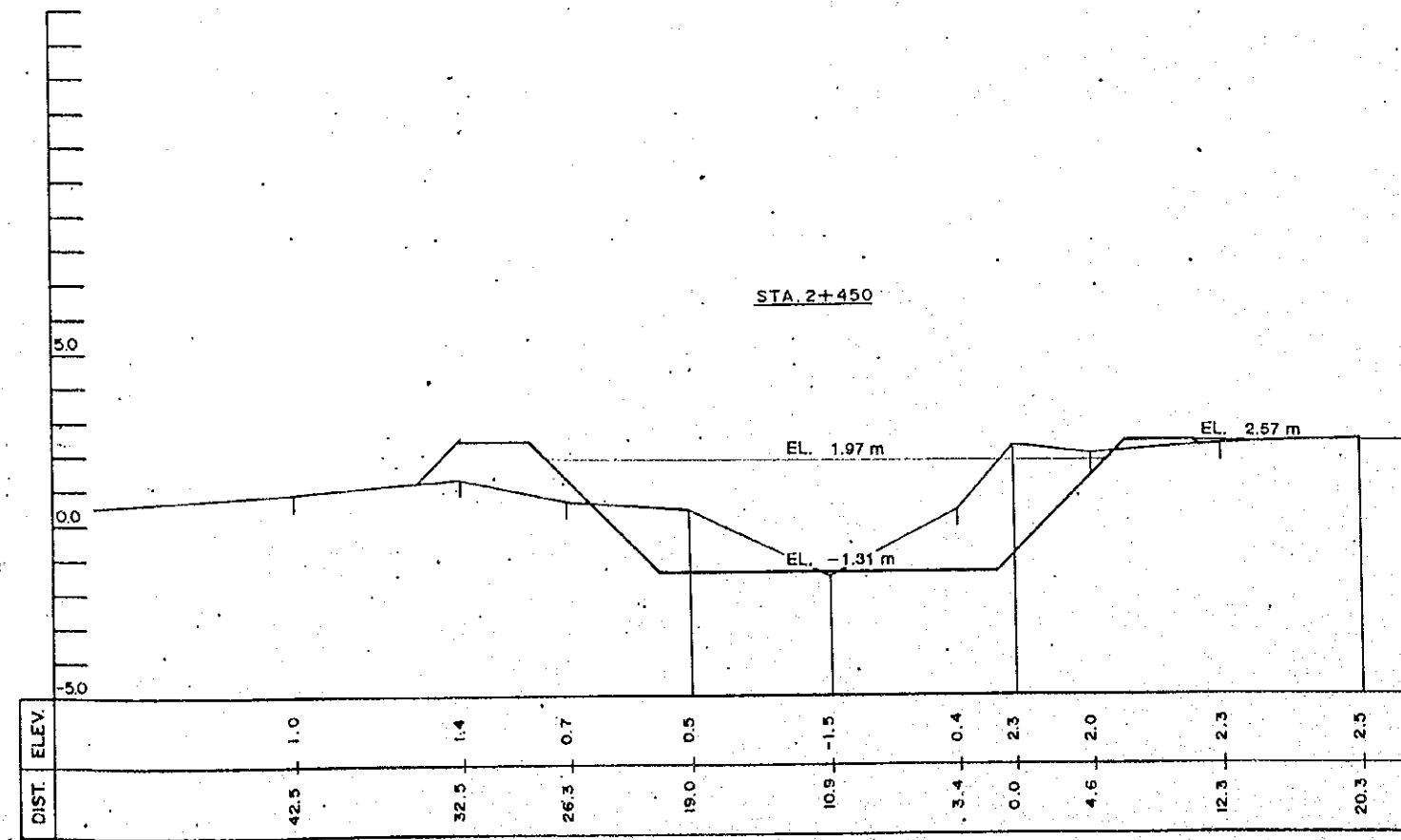
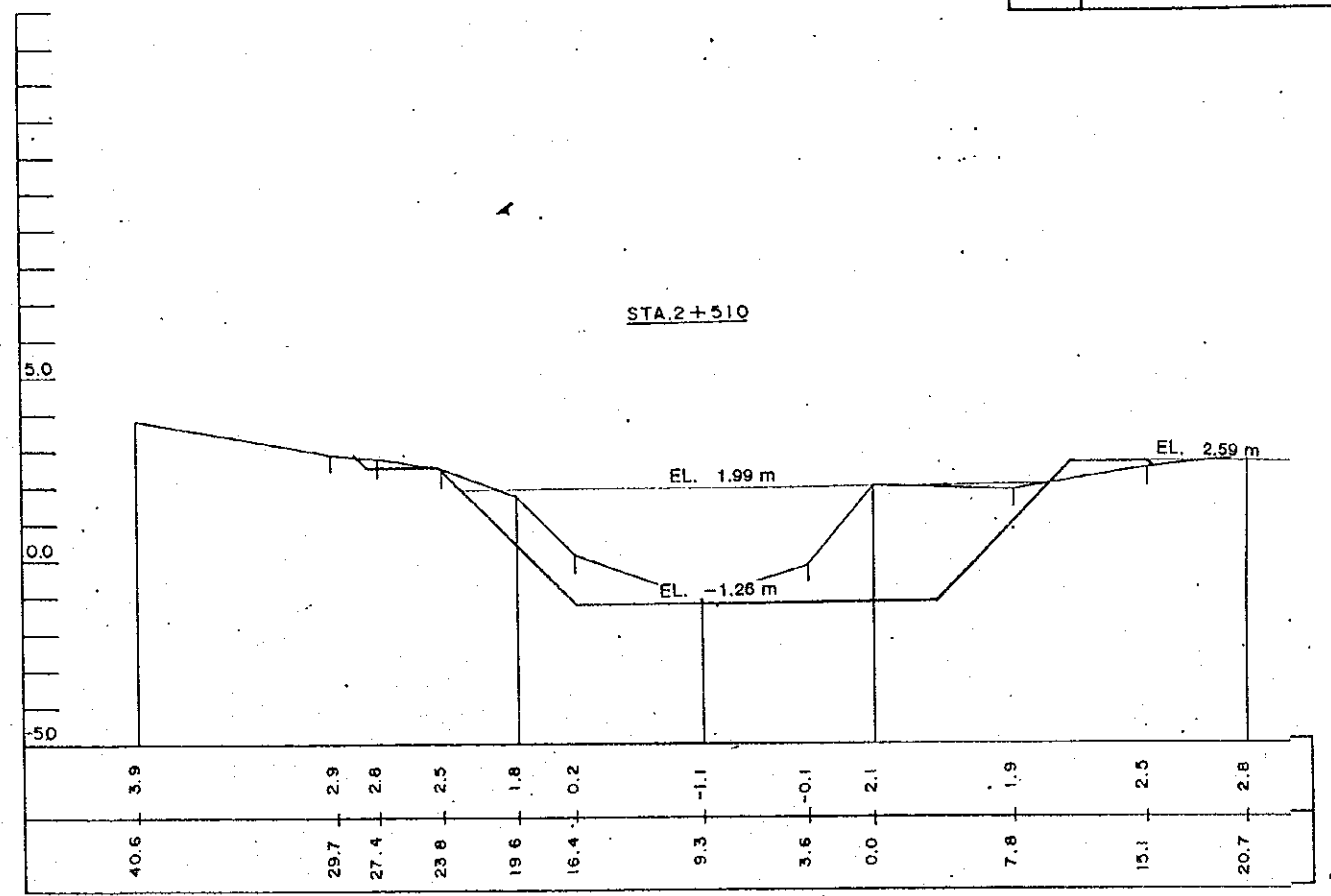
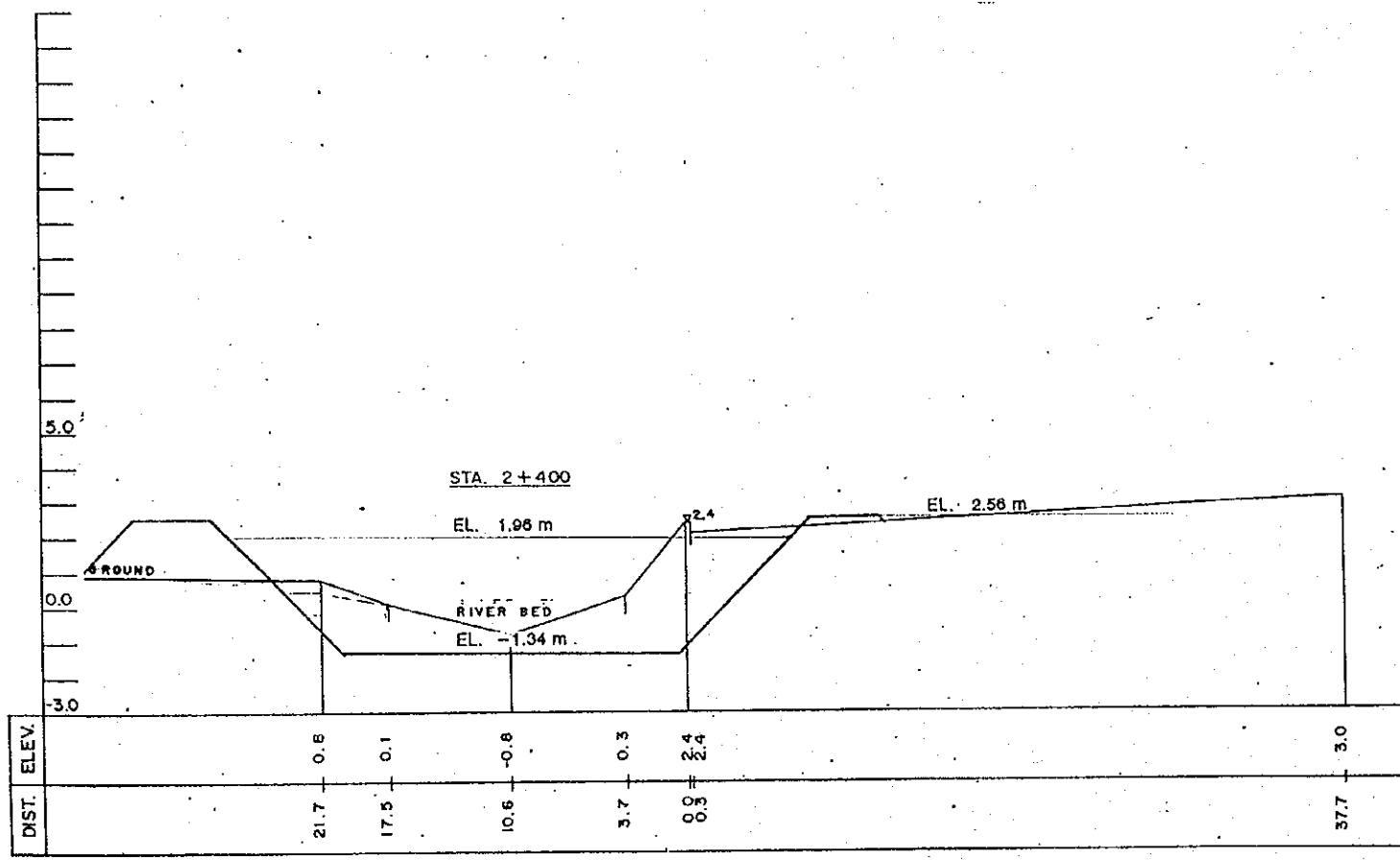


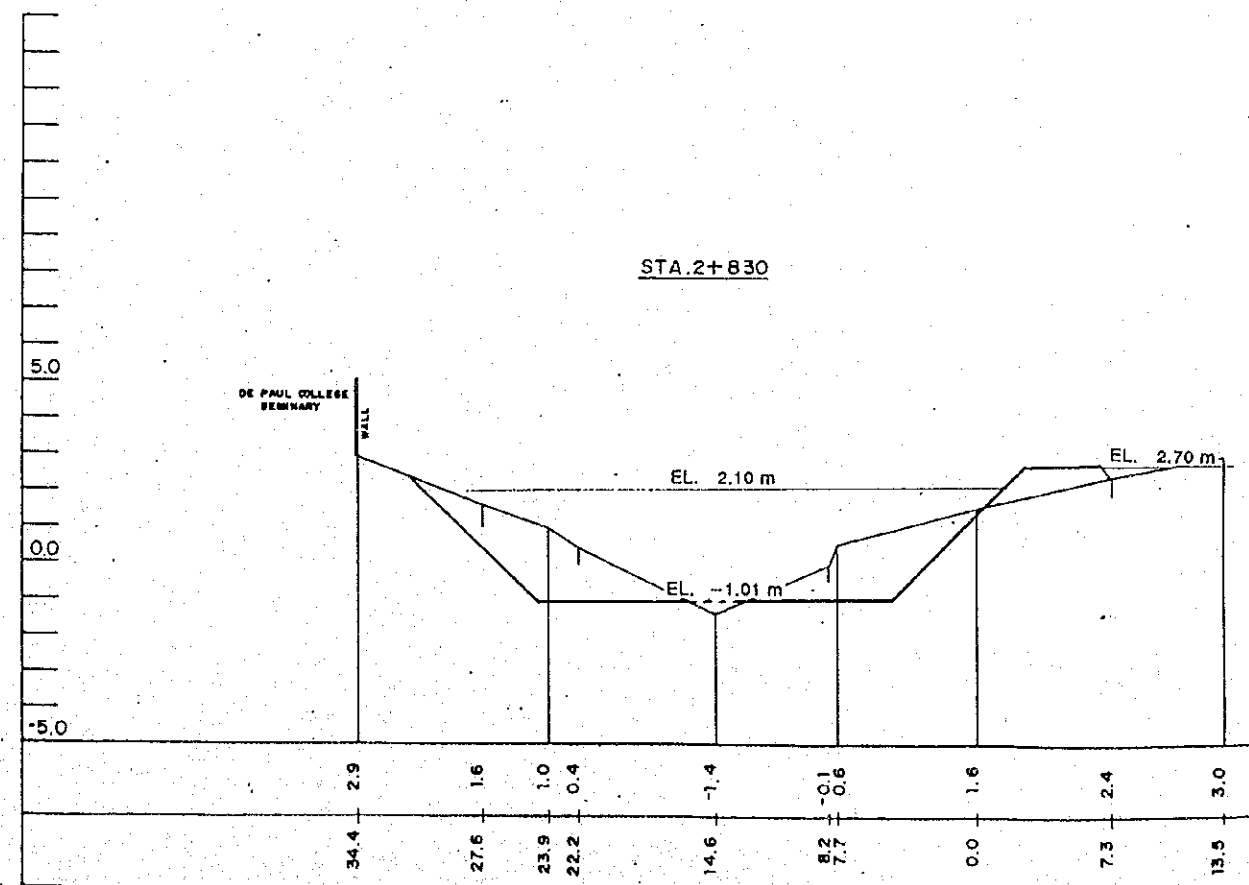
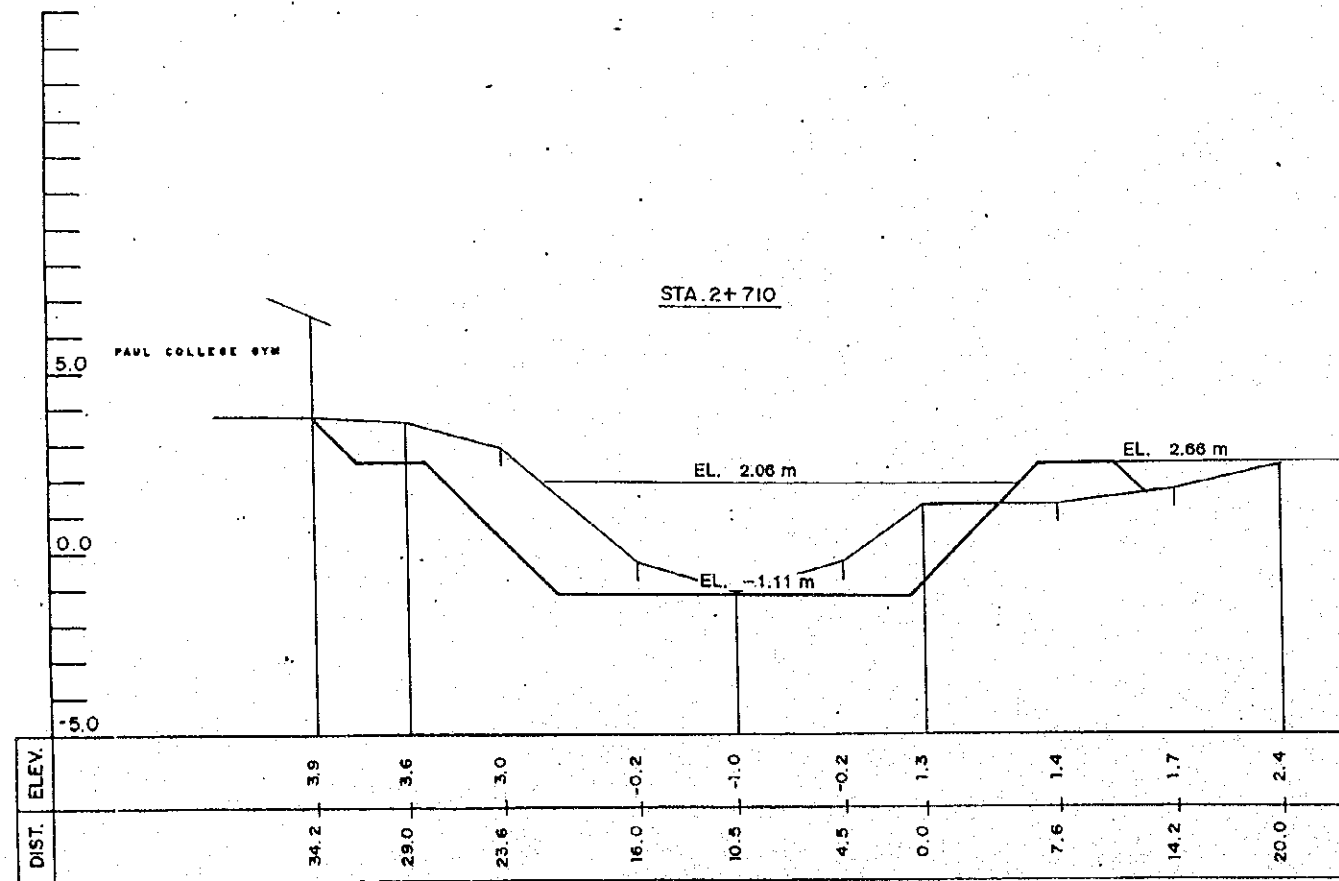
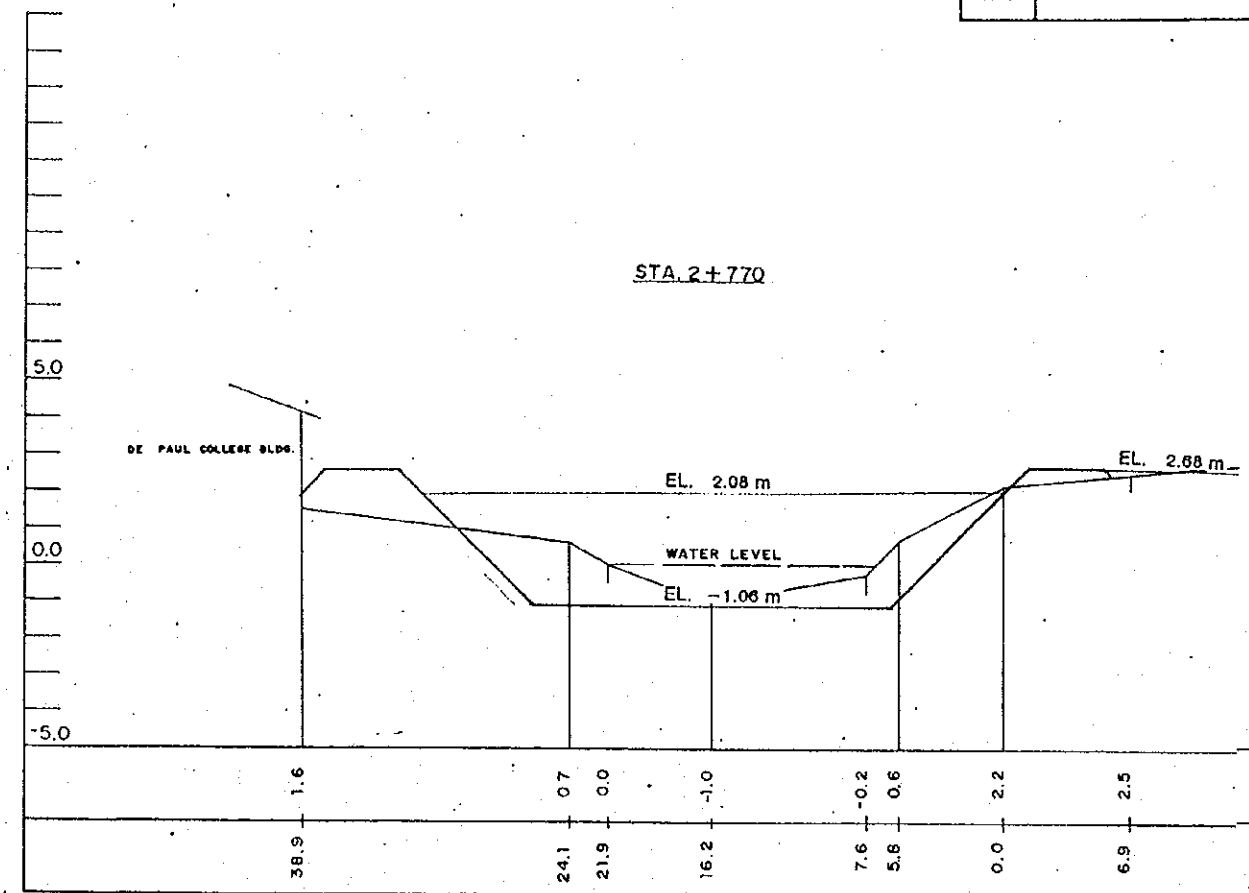
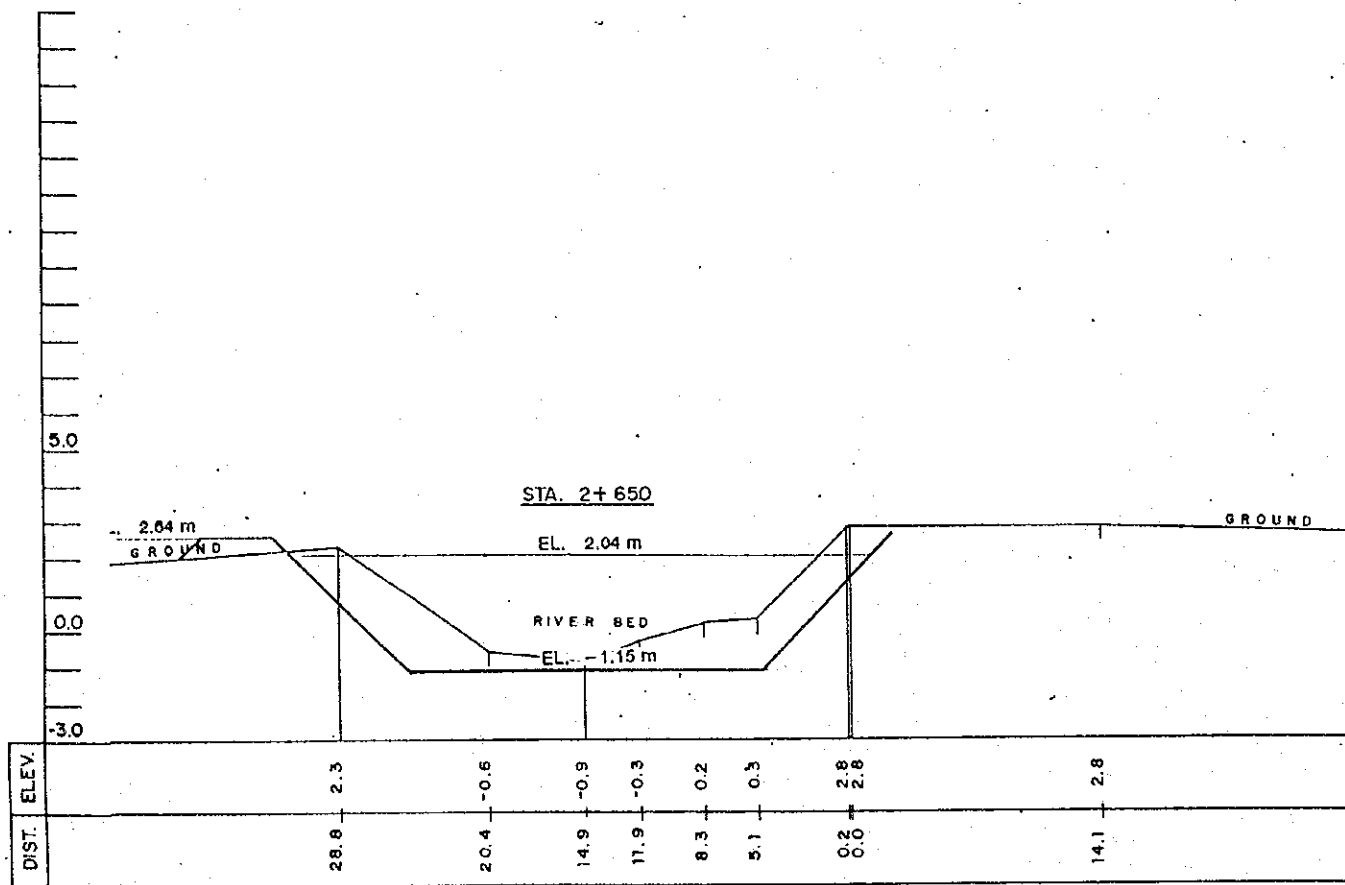
THE STUDY ON THE FLOOD CONTROL FOR RIVERS
IN THE SELECTED URBAN CENTERS
JAPAN INTERNATIONAL COOPERATION AGENCY

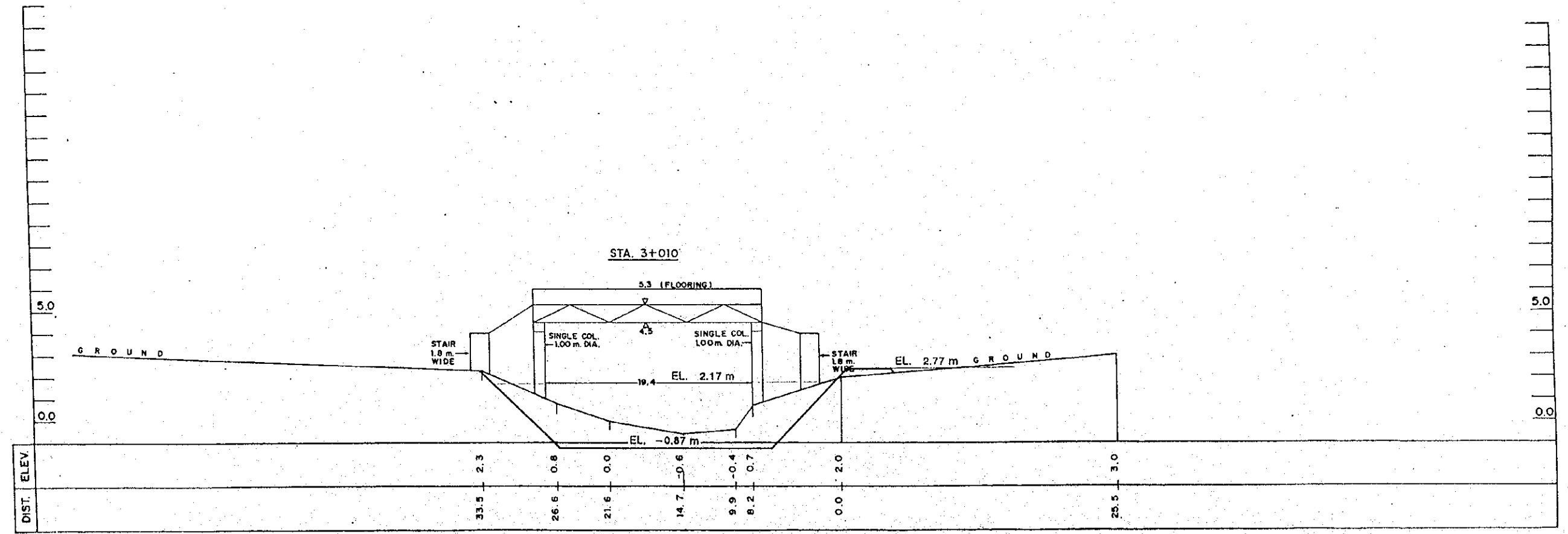
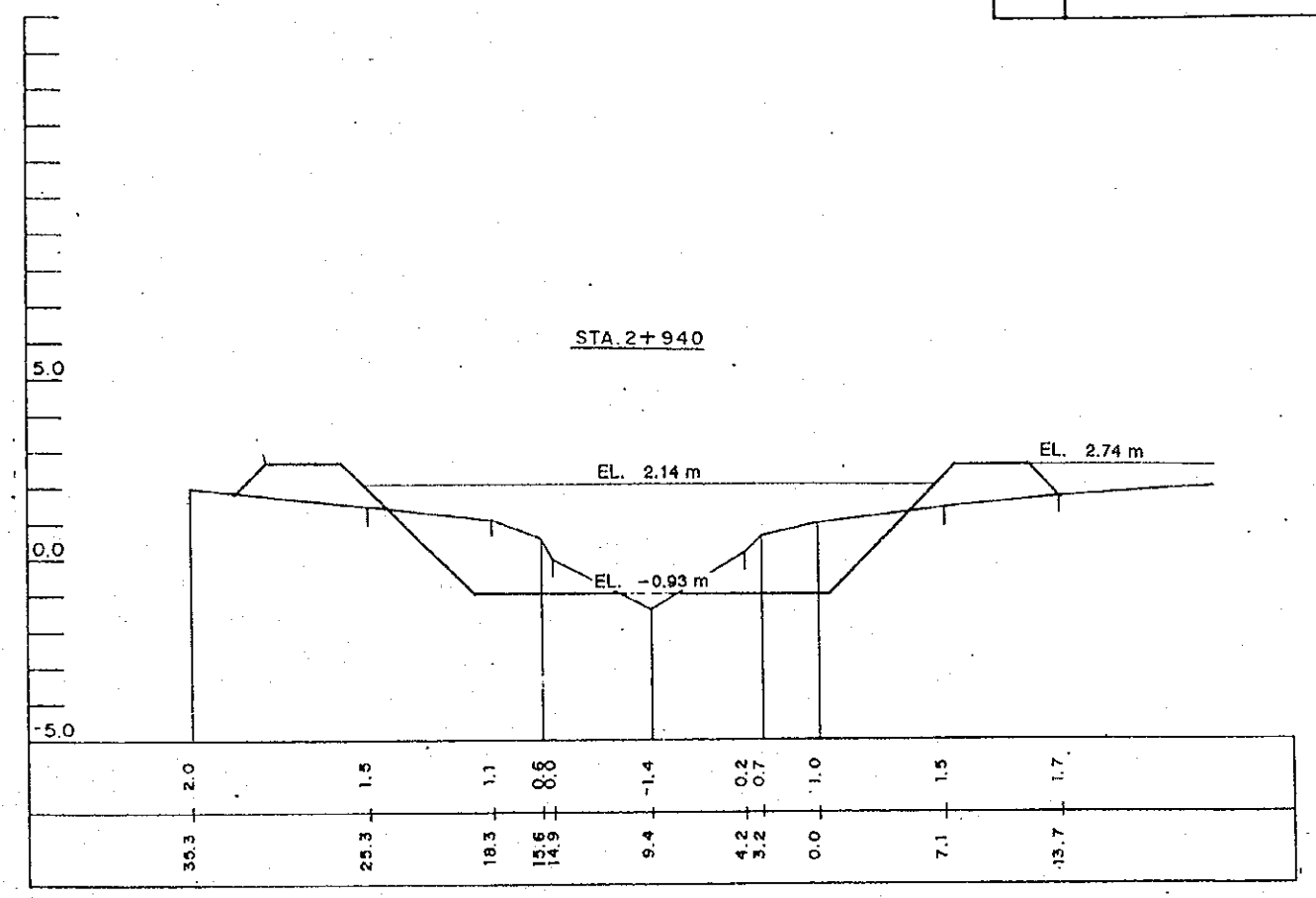
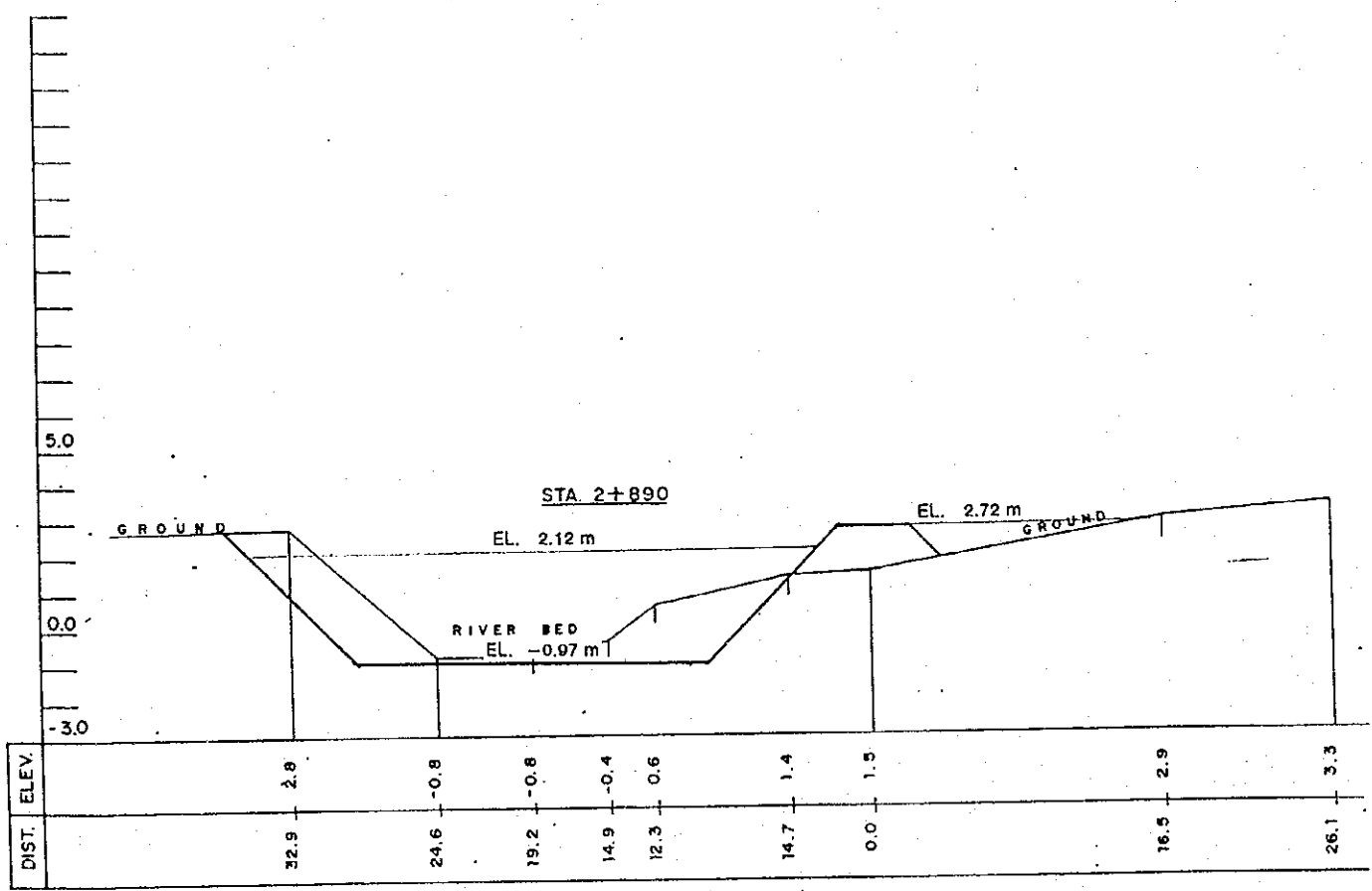
SUBJECT: MANDURIAO - PANDAN CREEK (ROUTE 1) CITY NAME: ILOILO CITY
SHEET CONTENTS: STA. 2+020, 2+070, 2+120, 2+170
SCALE H=1:400 V=1:200 DATE JULY 1994 SHEET NO. I-DR1-29-14



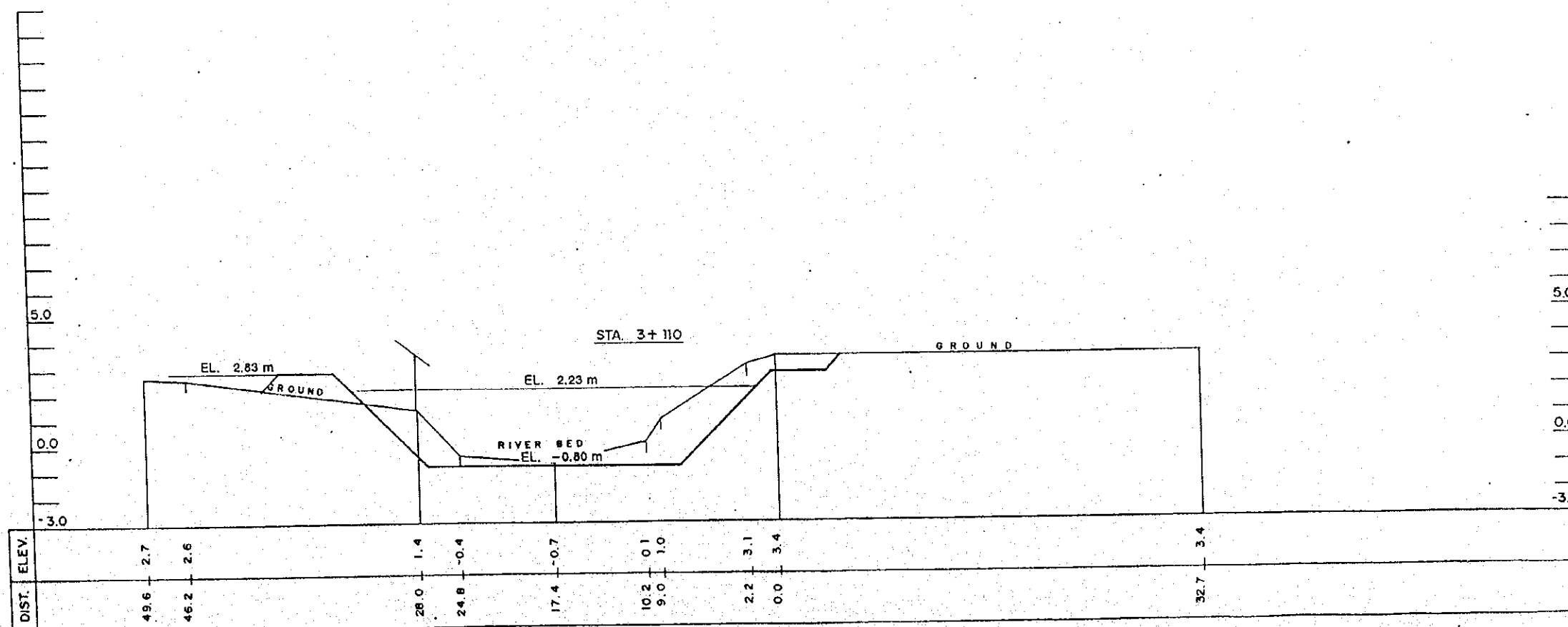
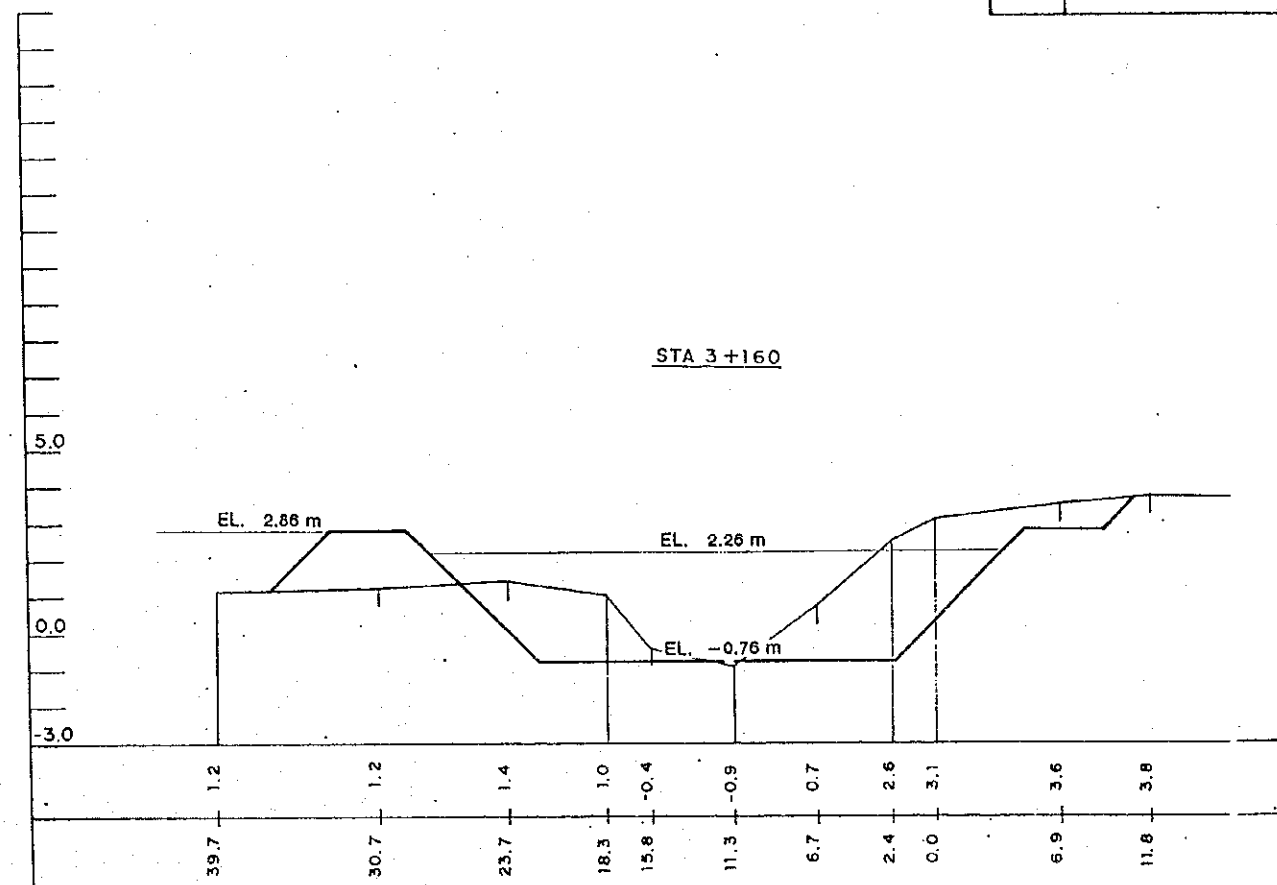
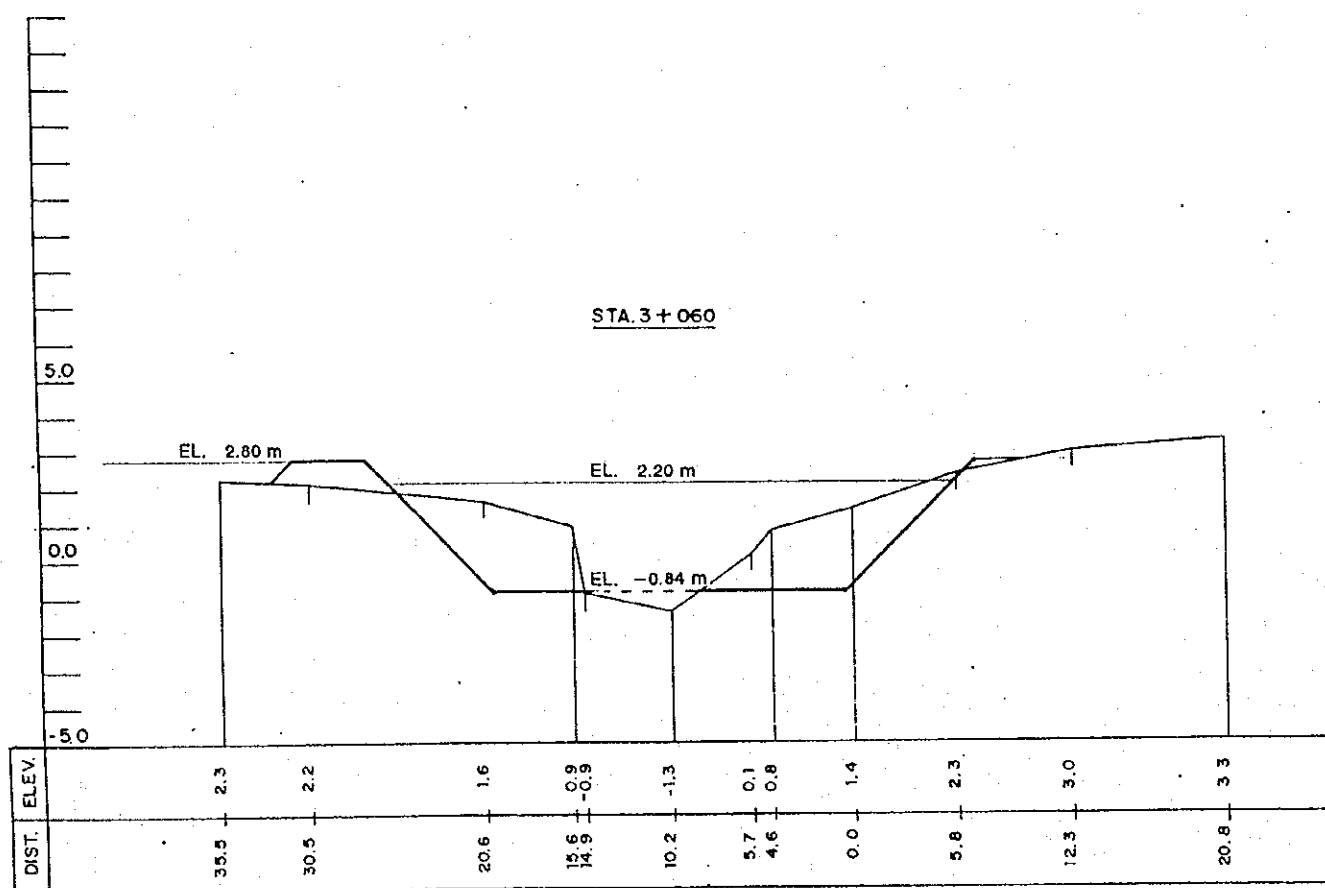
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO - PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY
	SHEET CONTENTS: STA. 2+215, 2+250, 2+300, 2+350	
	SCALE: H=1:400 V=1:200	DATE: JULY 1994



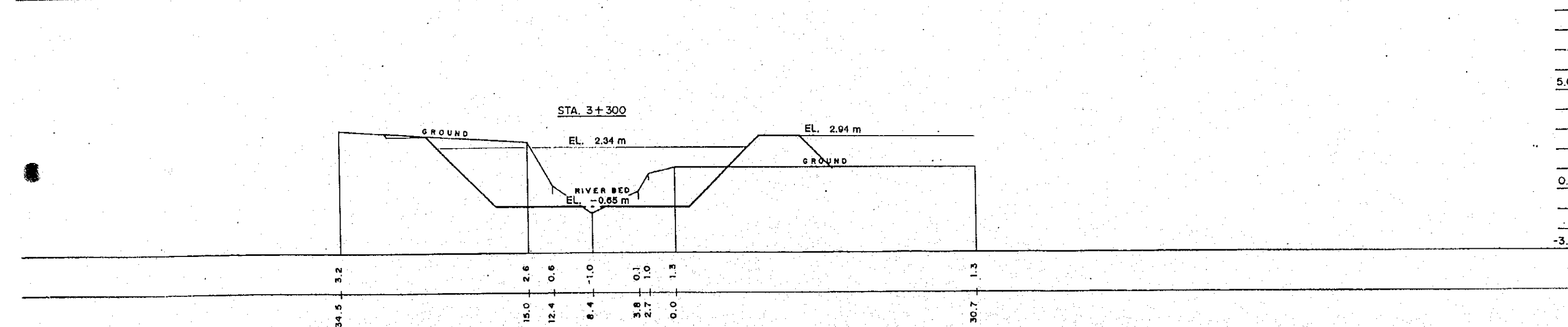
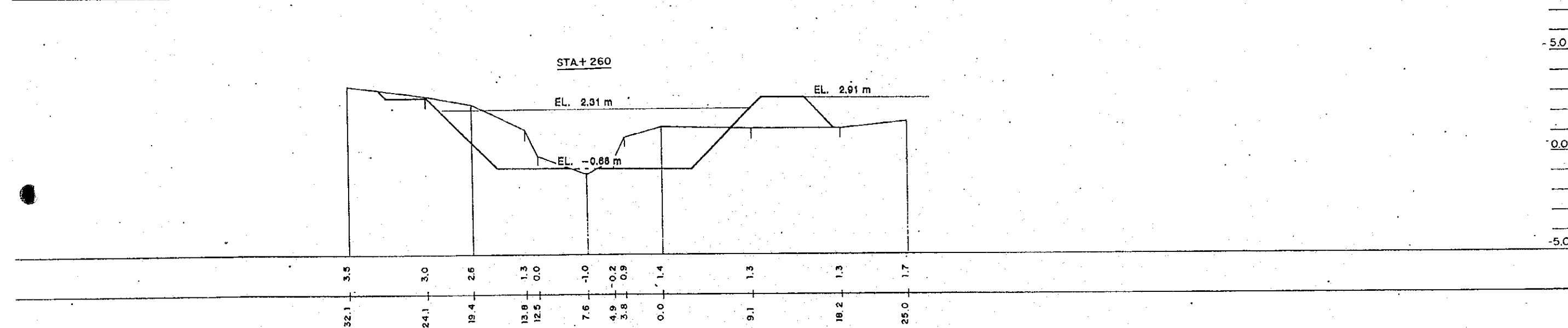
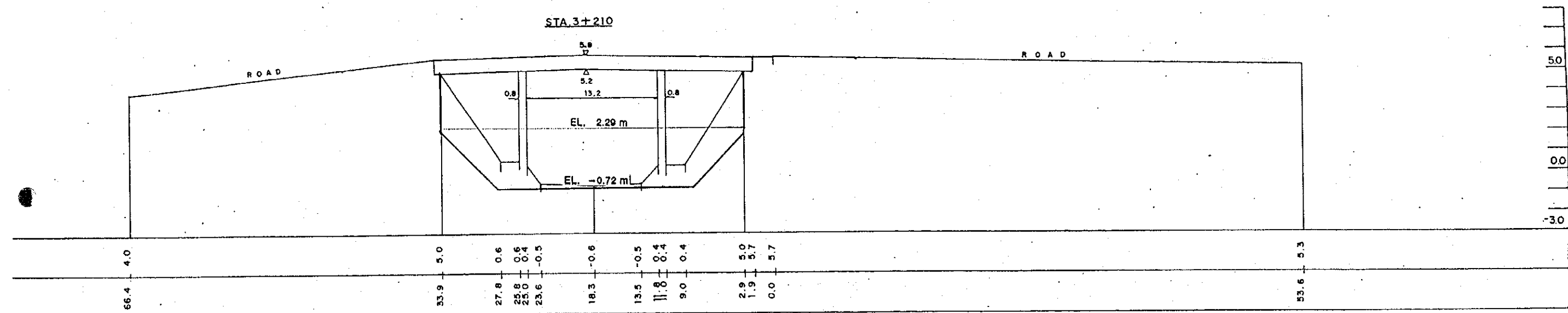




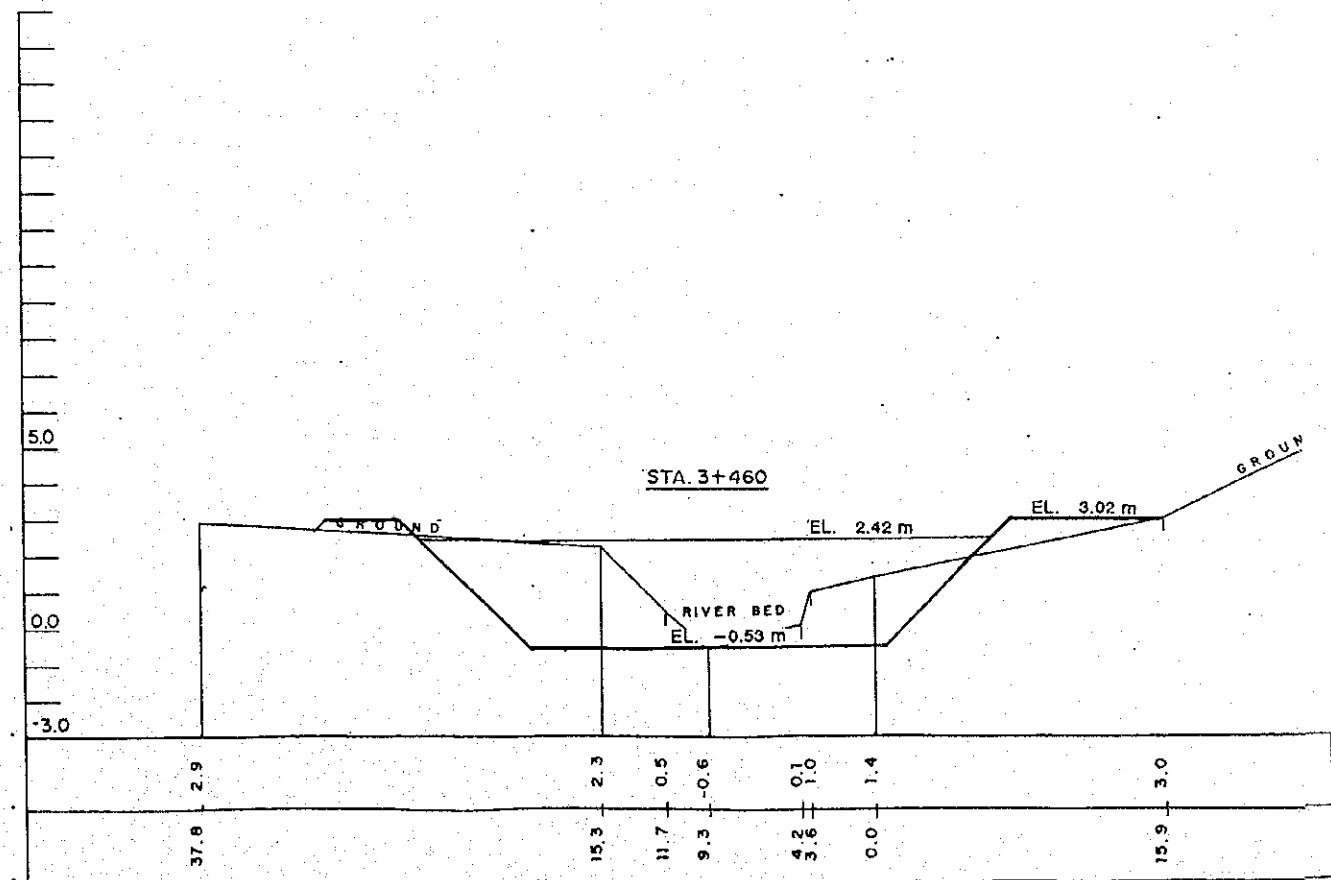
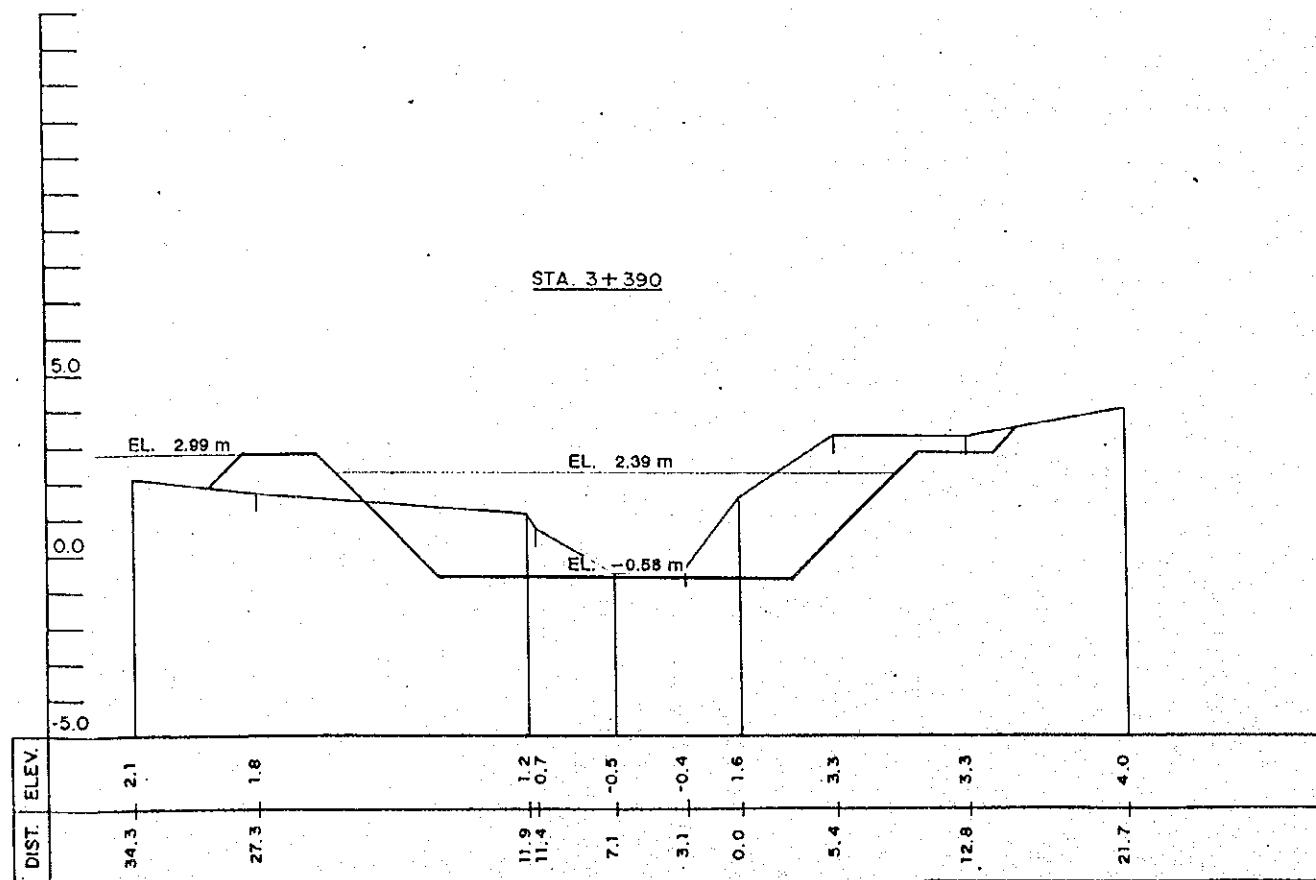
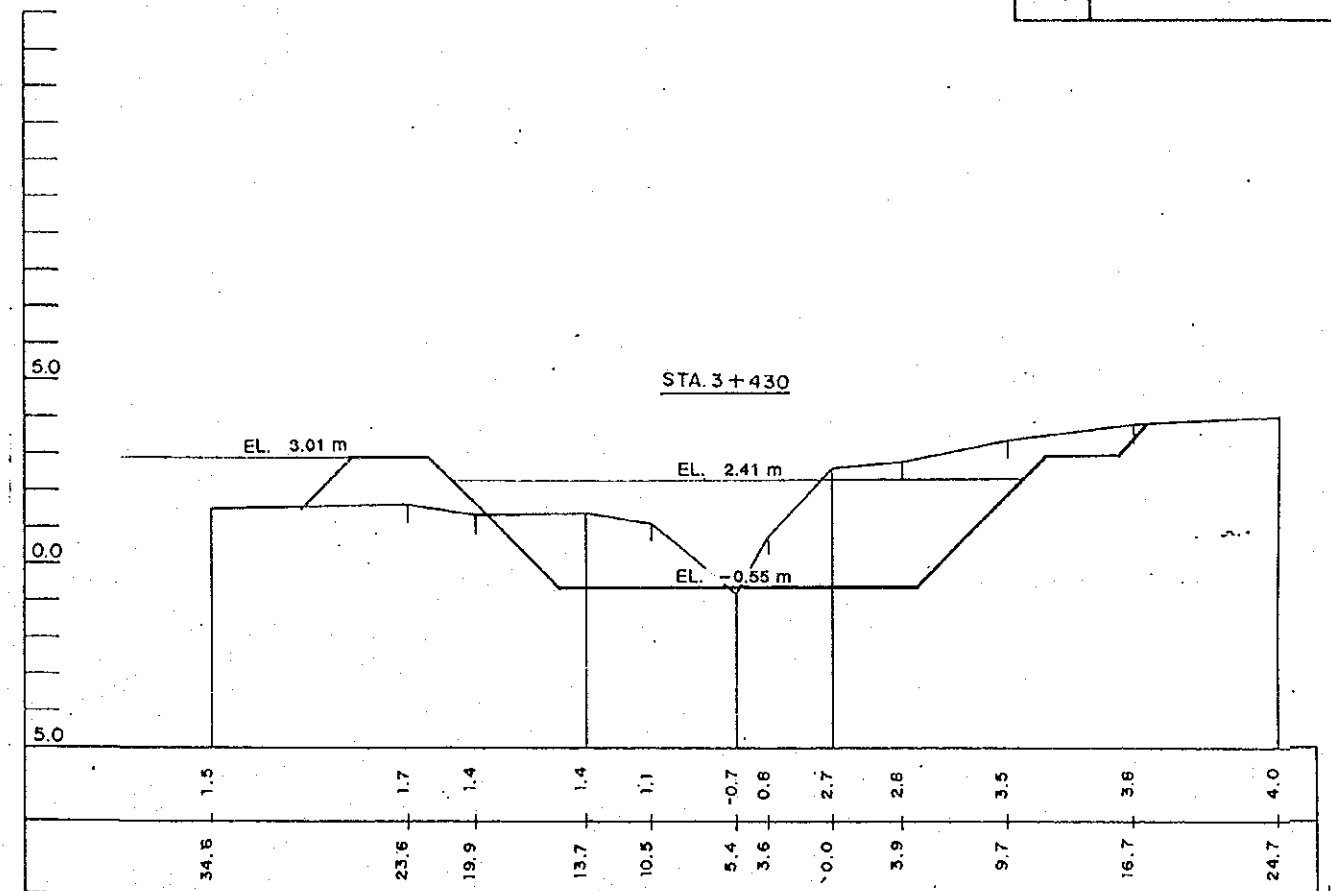
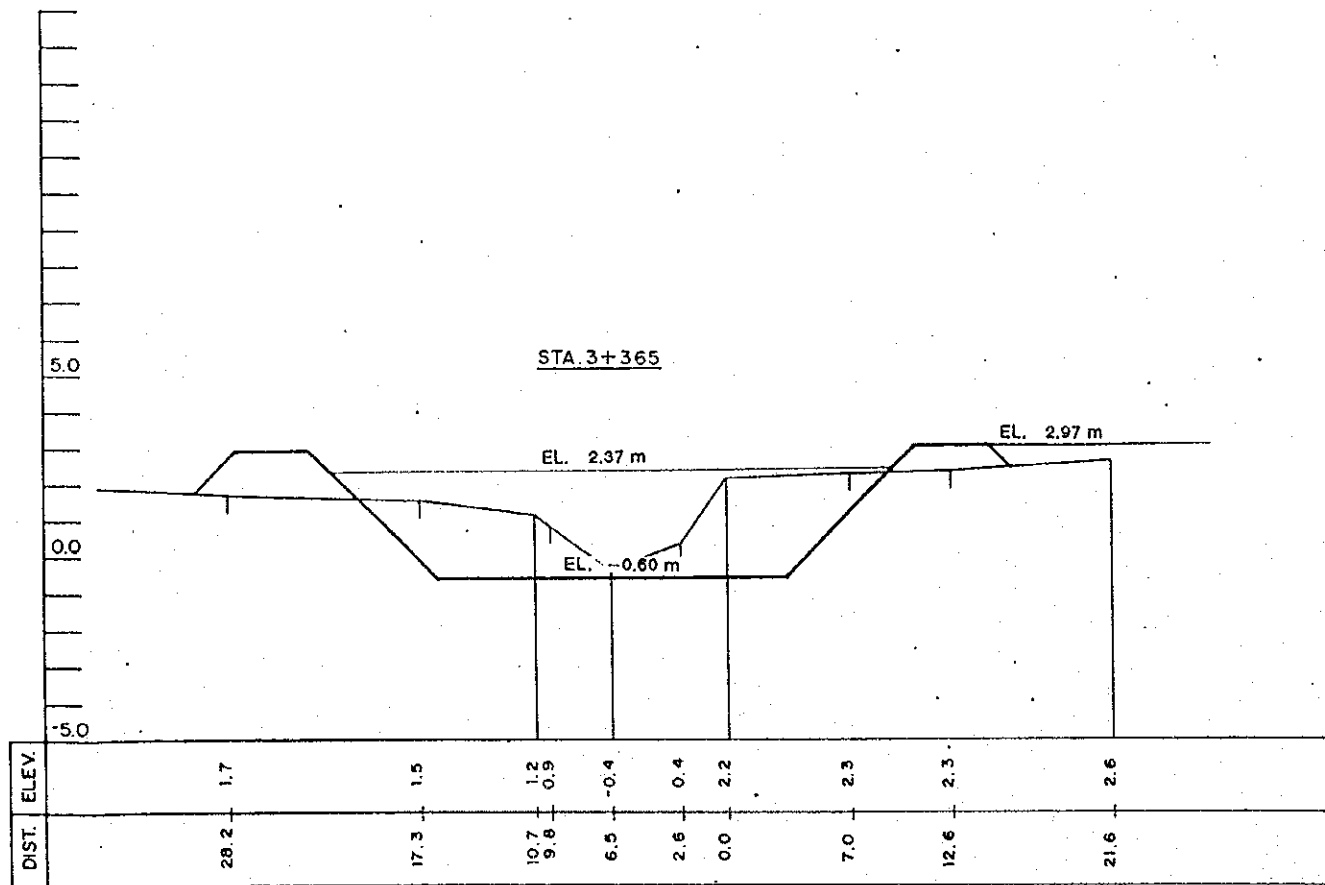
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO-PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY
	SHEET CONTENTS: STA. 2+890, 2+940, 3+010	
	SCALE: H=1:400 V=1:200	DATE: JULY 1994



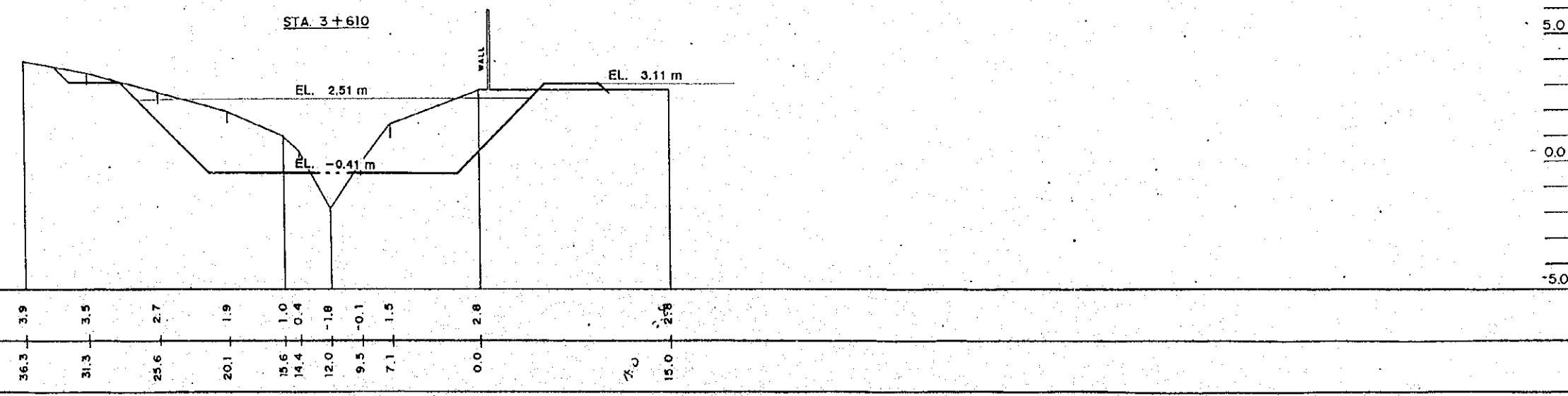
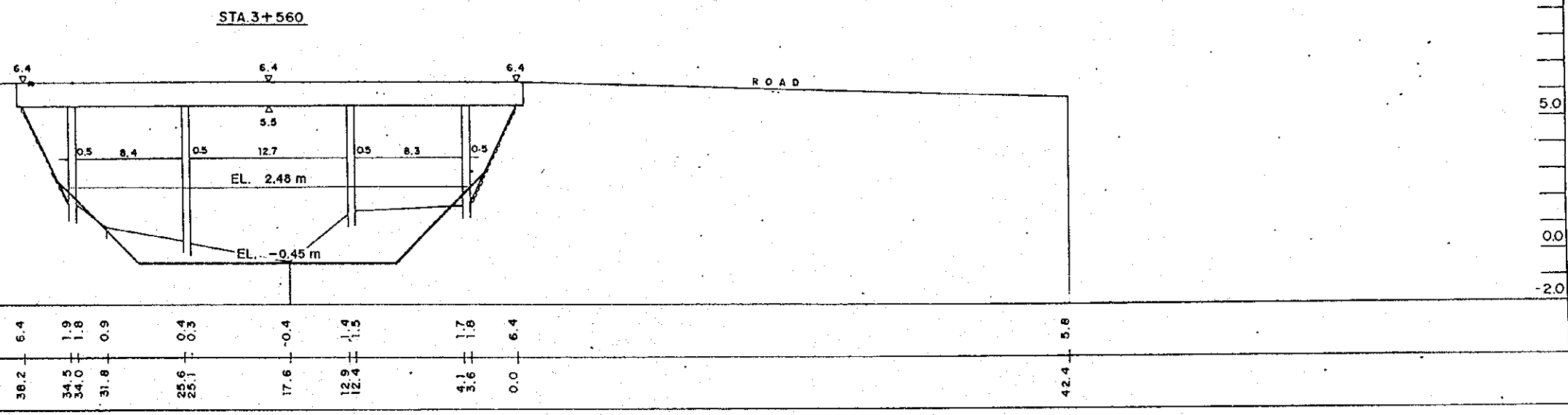
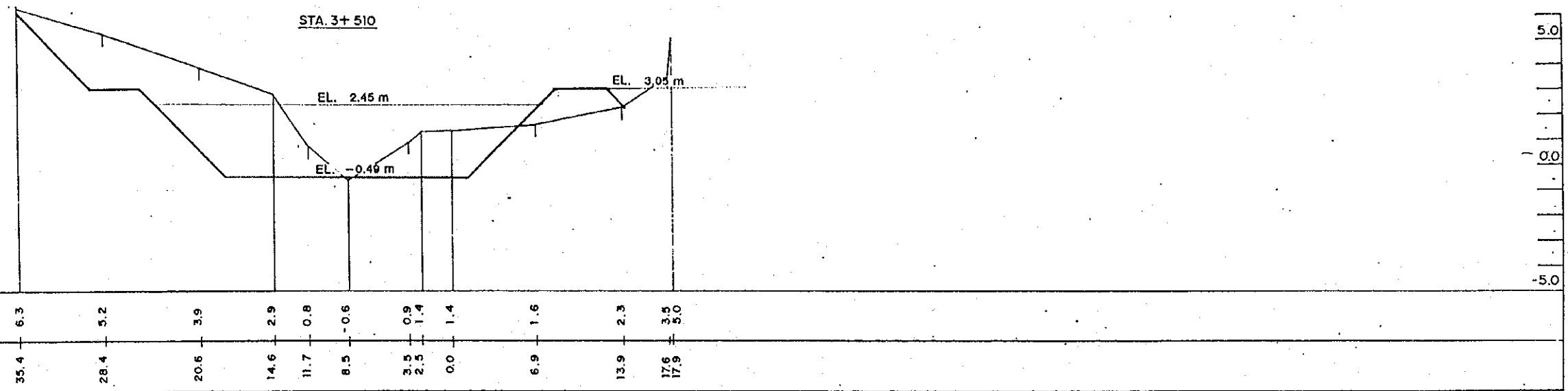
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO-PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY	
	SHEET CONTENTS: STA. 3+060, 3+110, 3+160	SCALE H=1:400 V=1:200	DATE JULY 1994



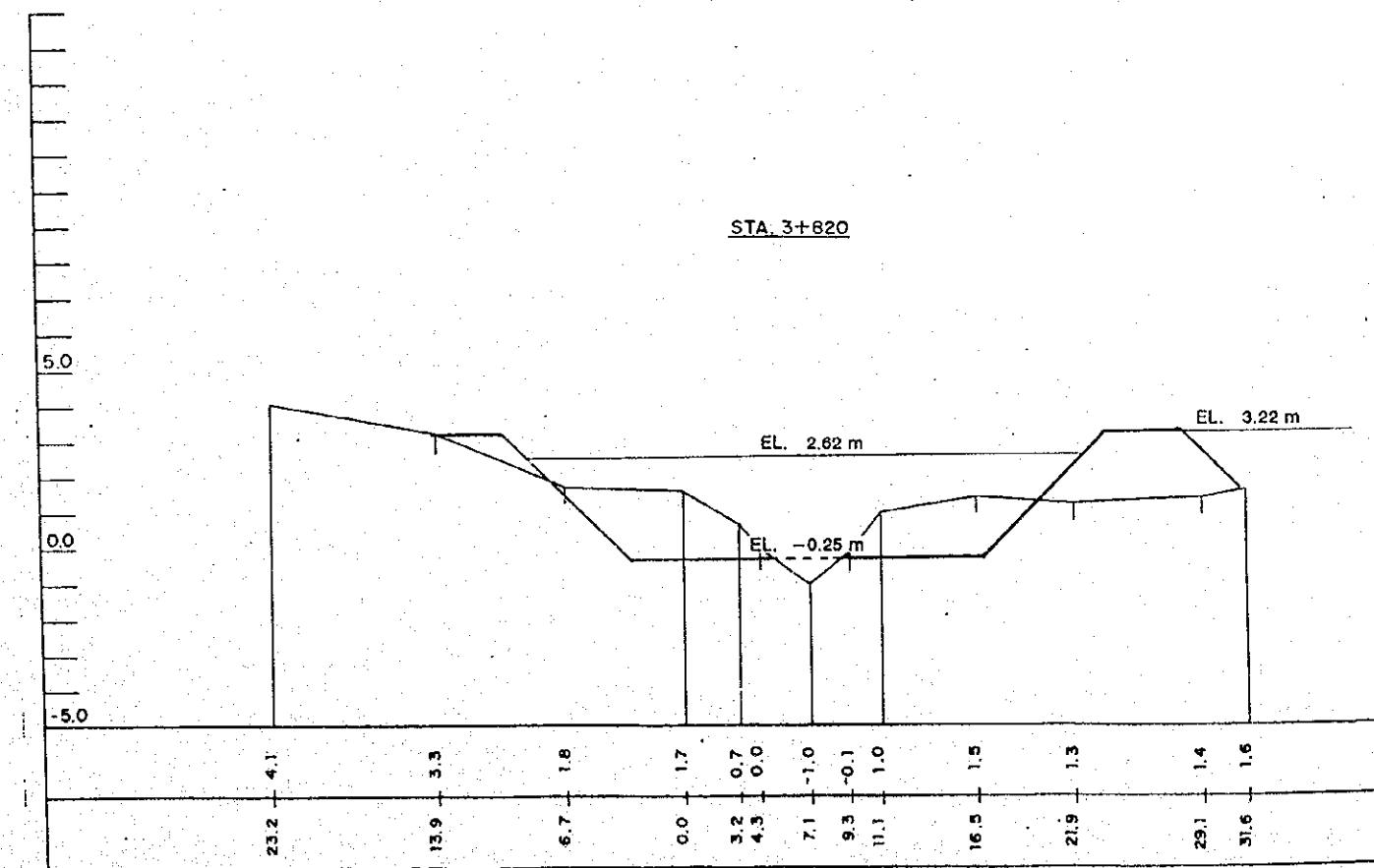
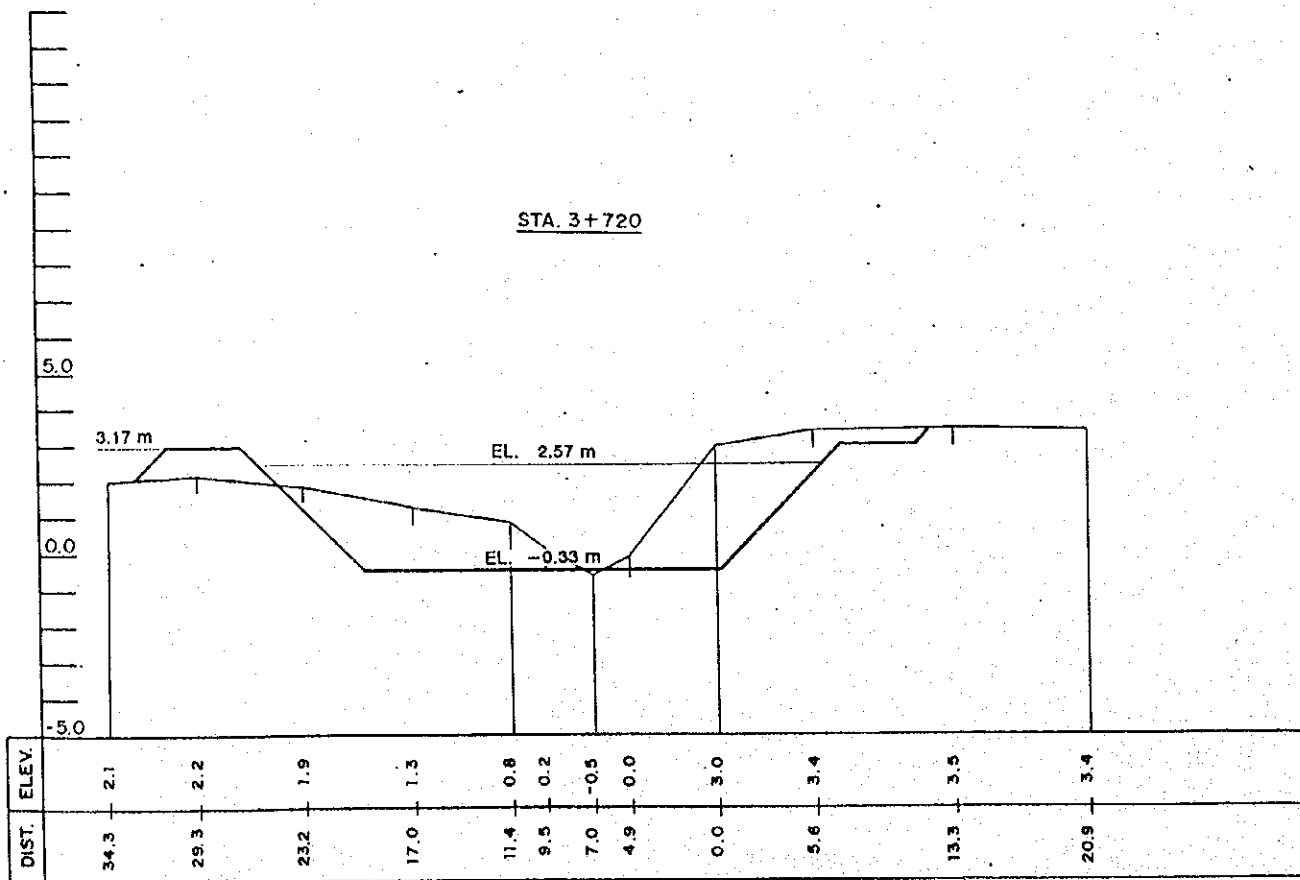
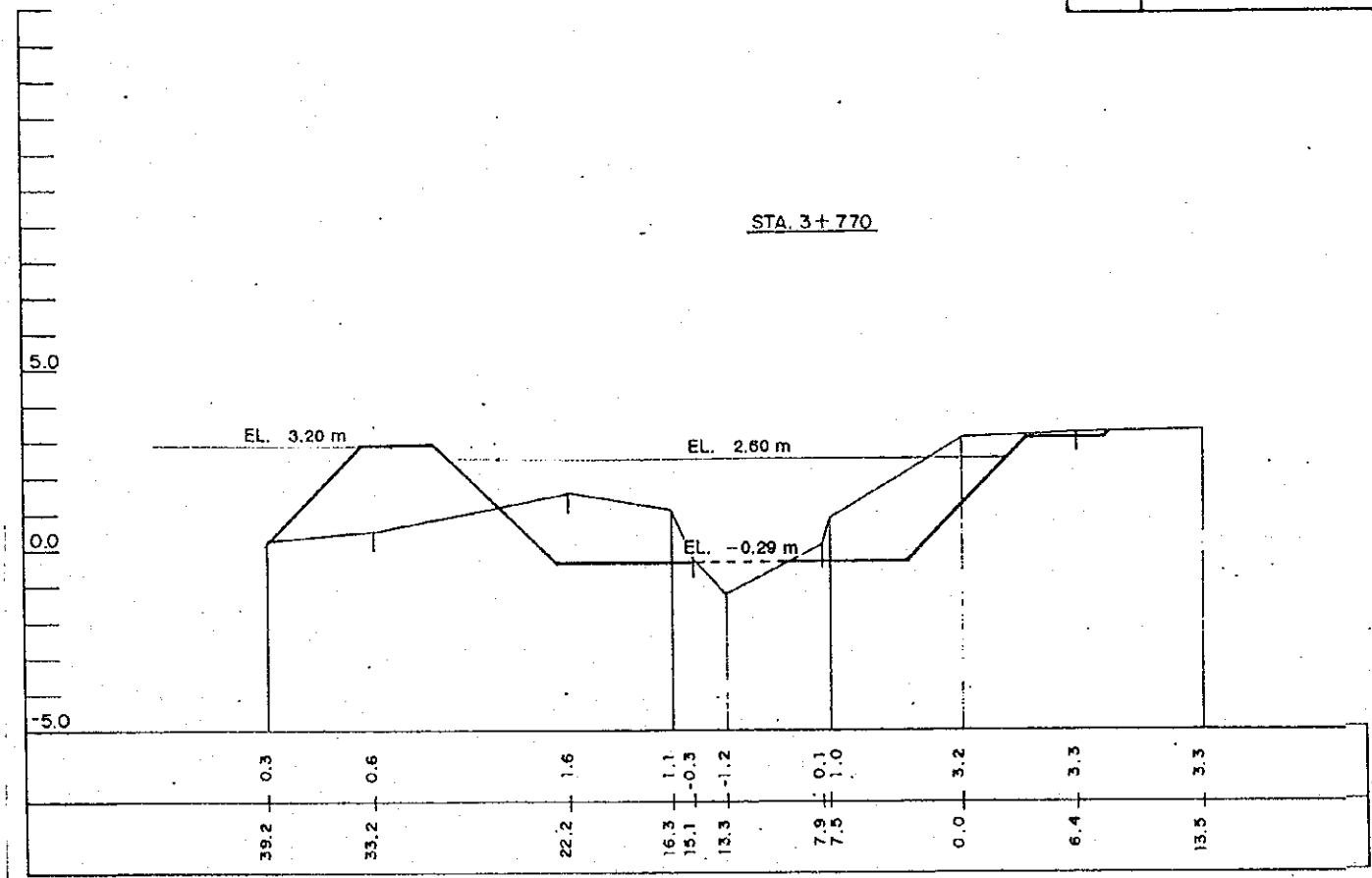
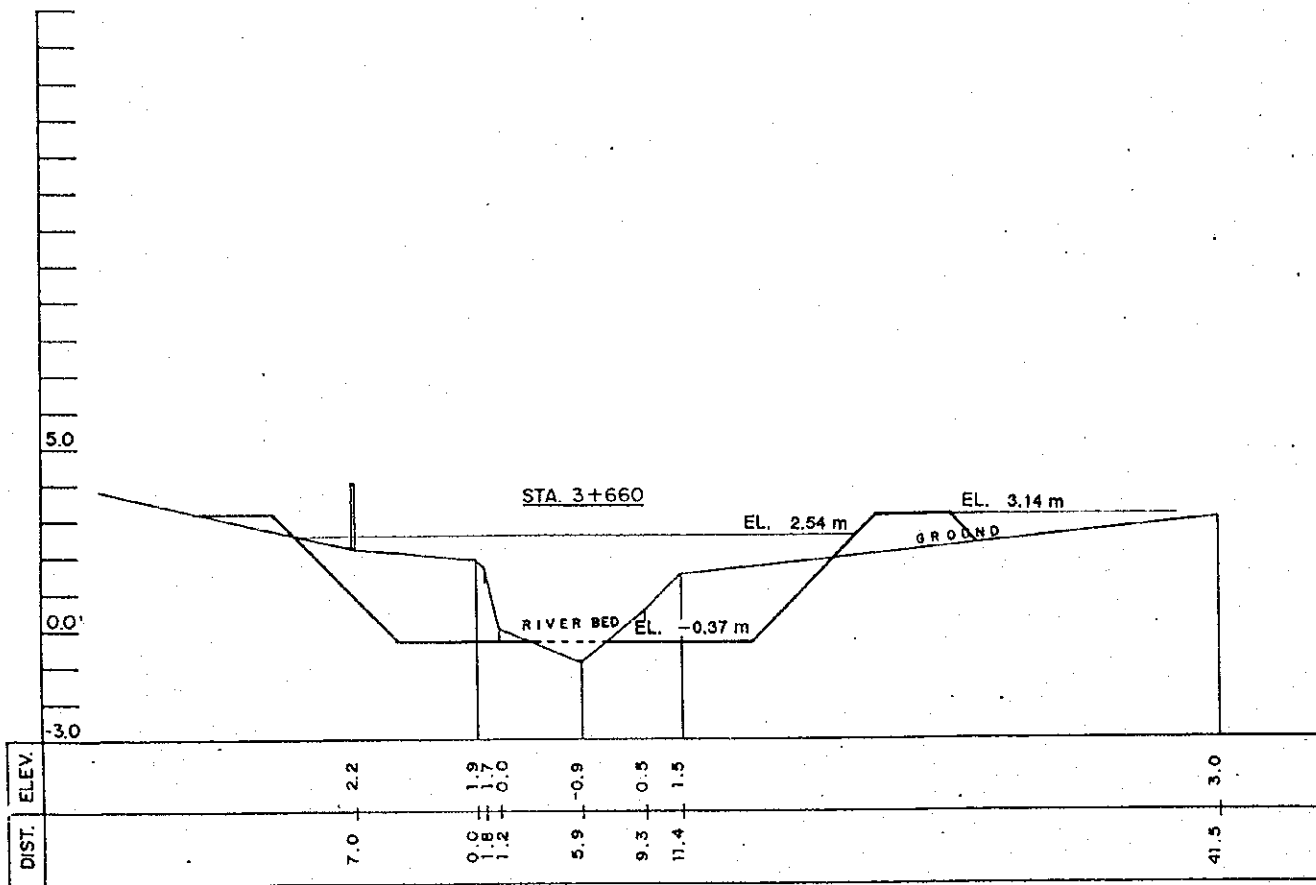
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS	SUBJECT: MANDURIAO-PANDAN CREEK	CITY NAME: ILOILO CITY
	(ROUTE 1)	
JAPAN INTERNATIONAL COOPERATION AGENCY	SHEET CONTENTS: STA. 3+210, 3+260, 3+300	SCALE: H=1:400 V=1:200
	DATE: JULY 1994	SHEET NO. I-DR1-29-20

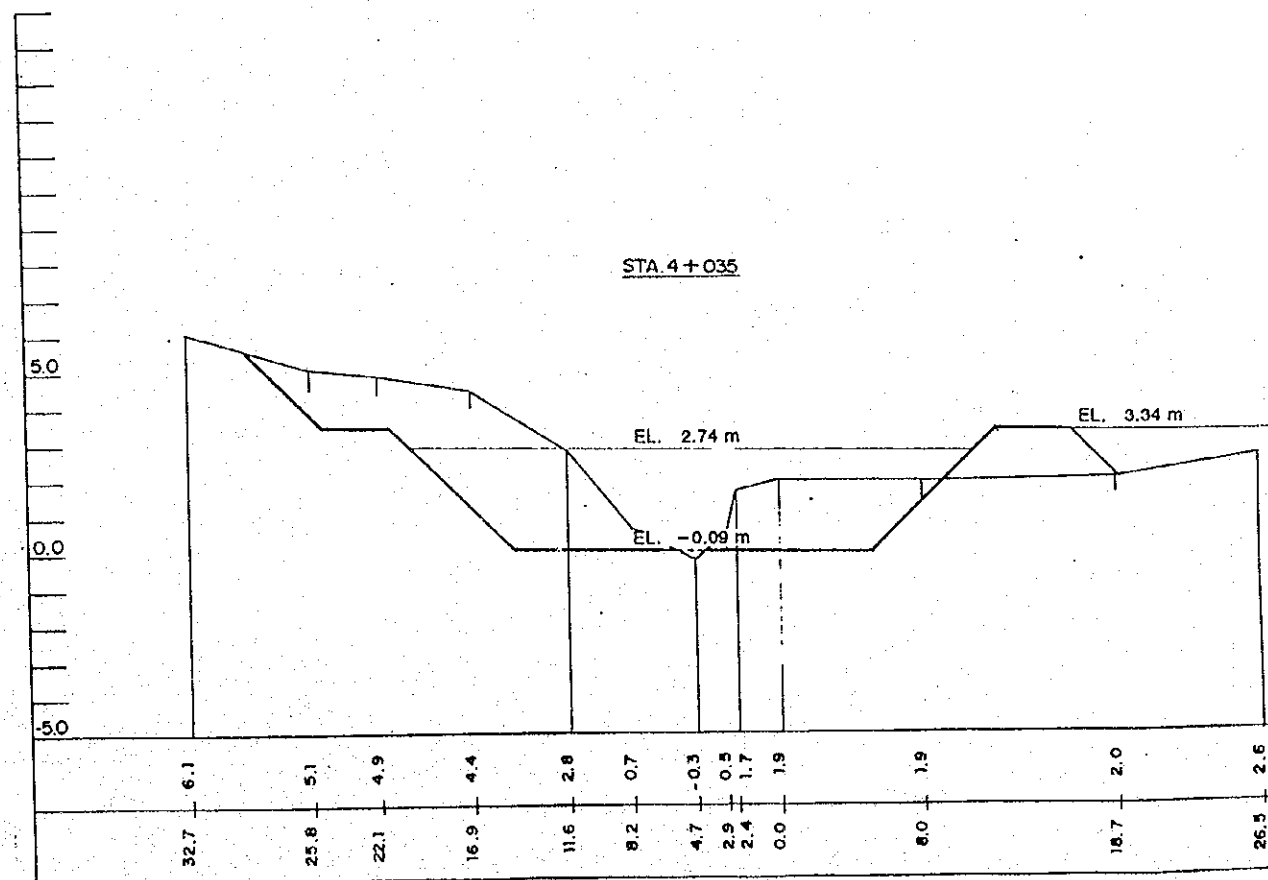
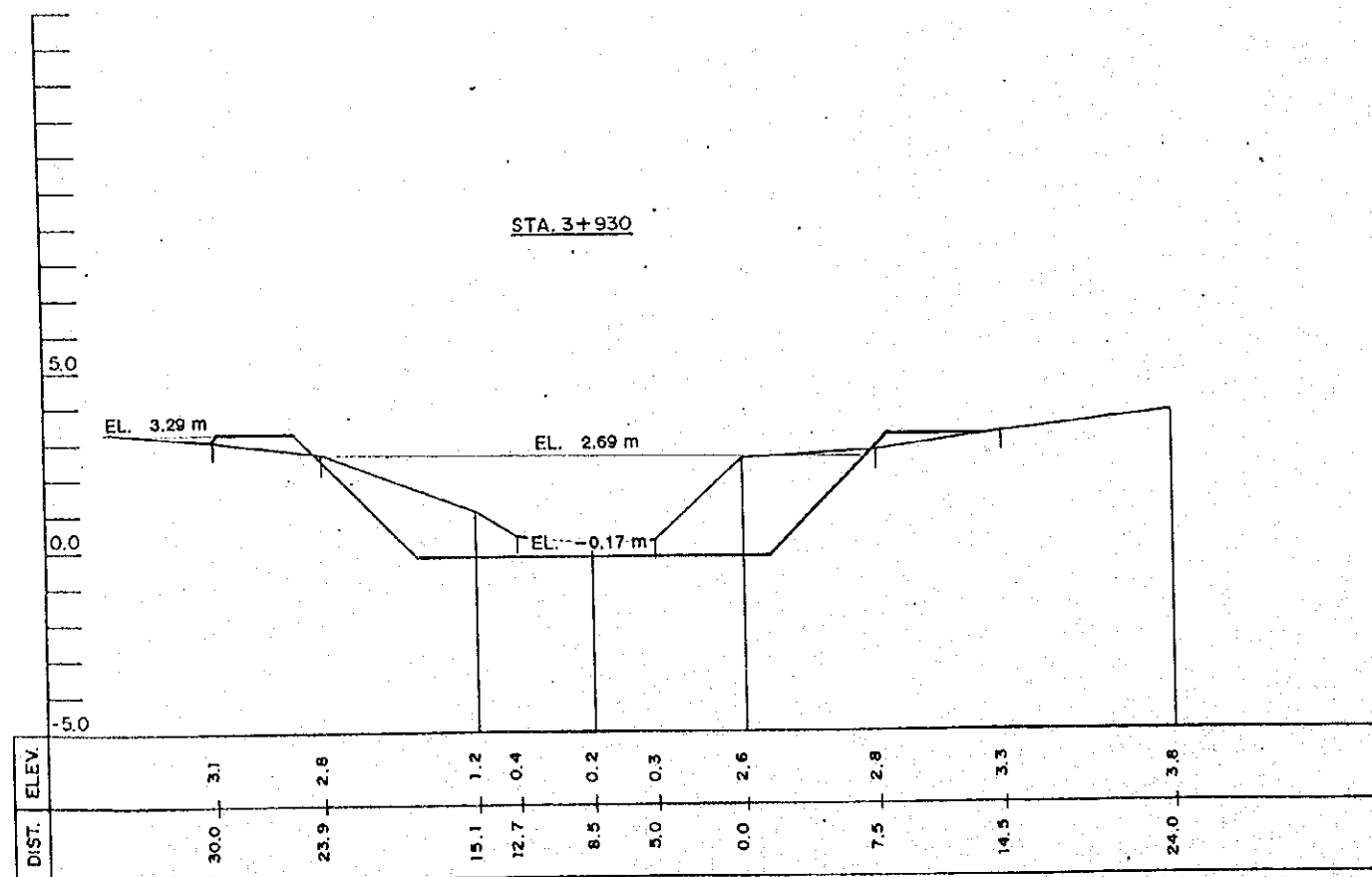
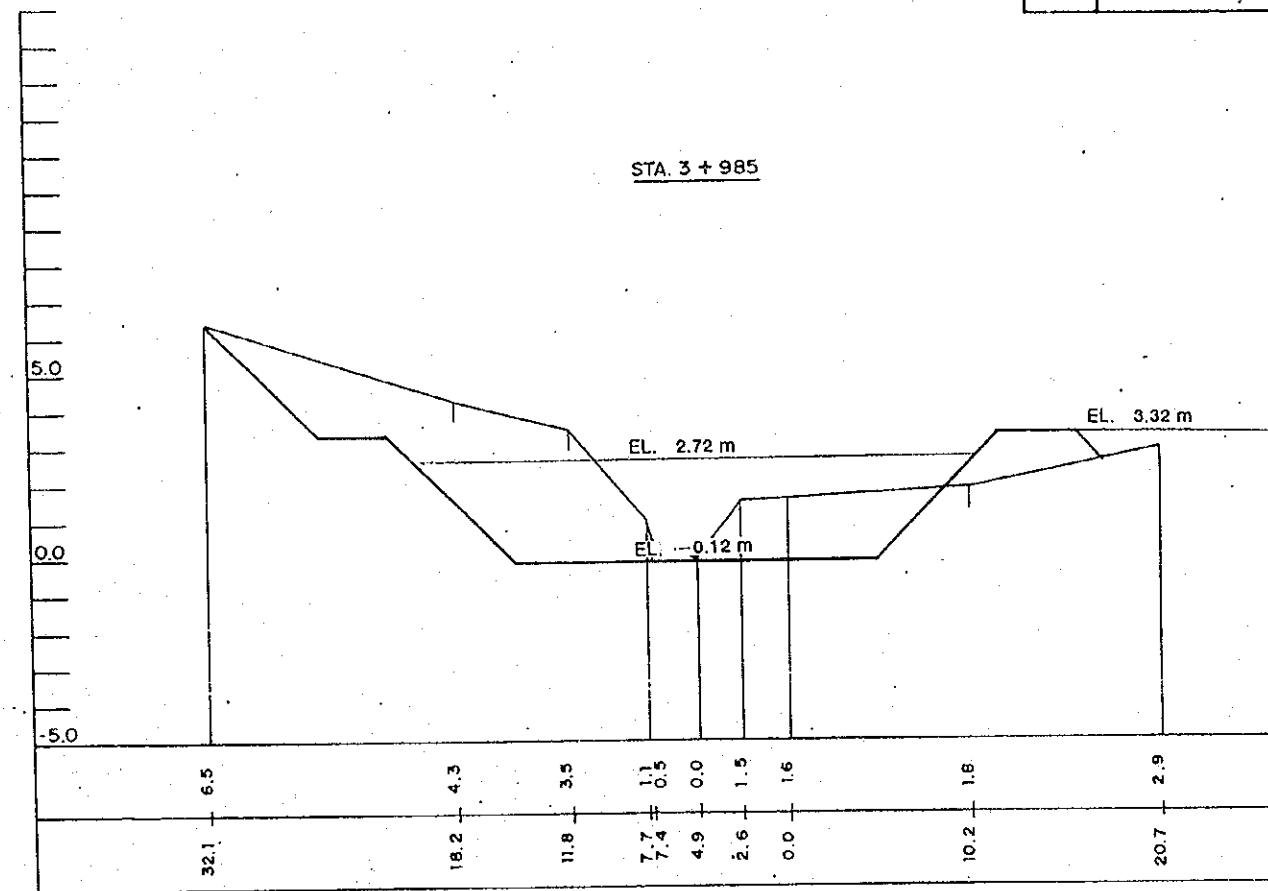
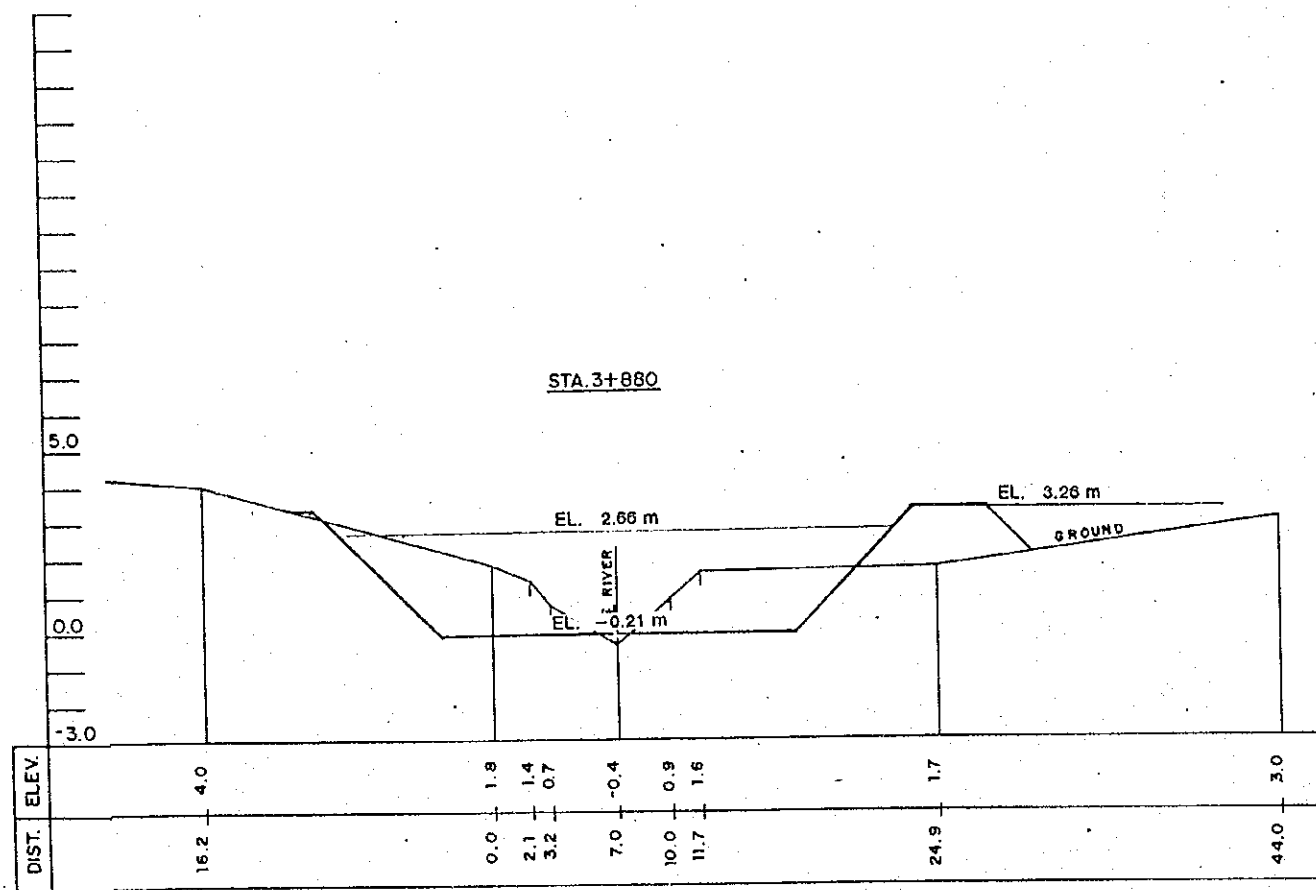


THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT: MANDURIAO-PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY
	SHEET CONTENTS: STA. 3+365, 3+390, 3+430, 3+460	
	SCALE: H=1:400 V=1:200	DATE: JULY 1994



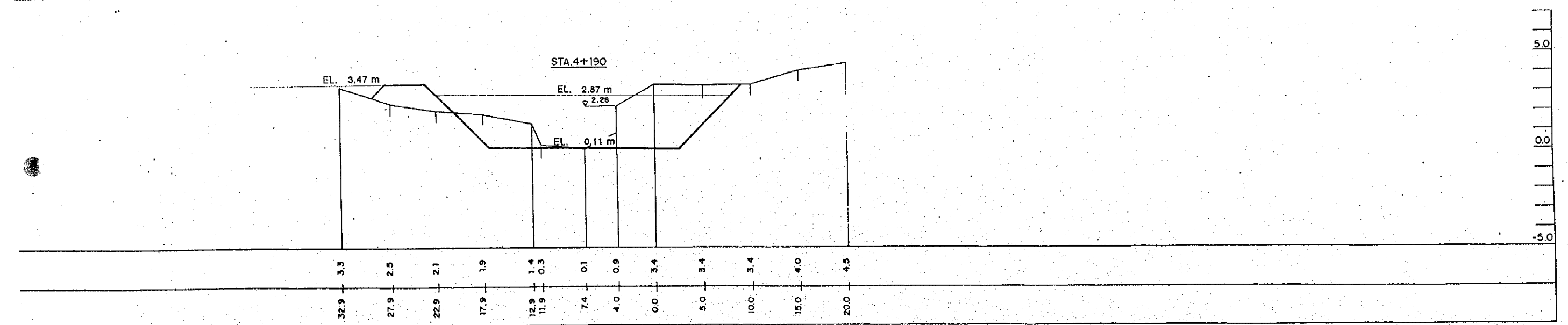
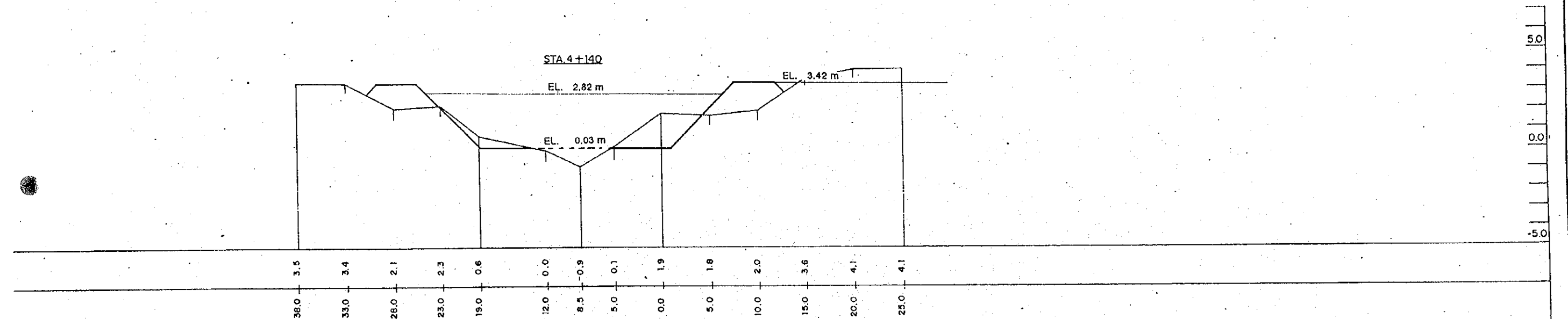
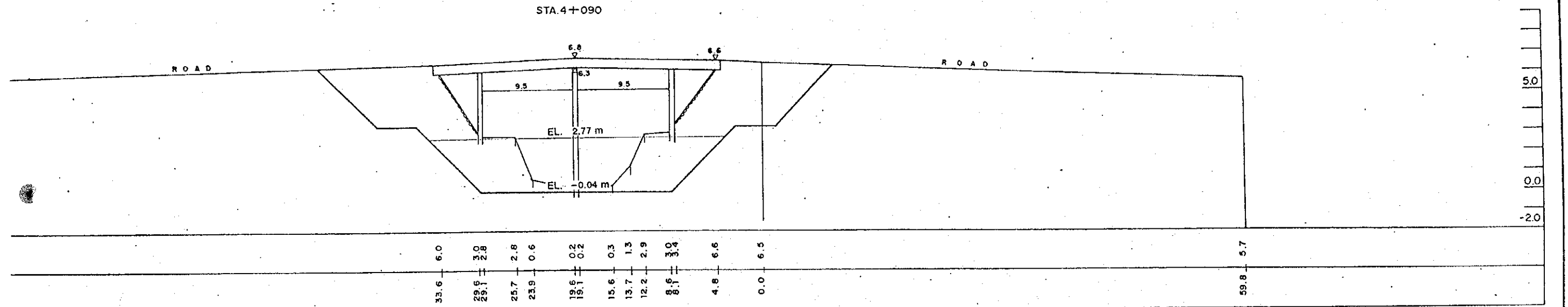
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS	SUBJECT: MANDURIAO-PANDAN CREEK (ROUTE 1)	CITY NAME: ILOILO CITY
	SHEET CONTENTS: STA. 3+510, 3+560, 3+610	
JAPAN INTERNATIONAL COOPERATION AGENCY	SCALE: H=1:400 V=1:200	DATE: JULY 1994
		SHEET NO. I-DRI-29-22





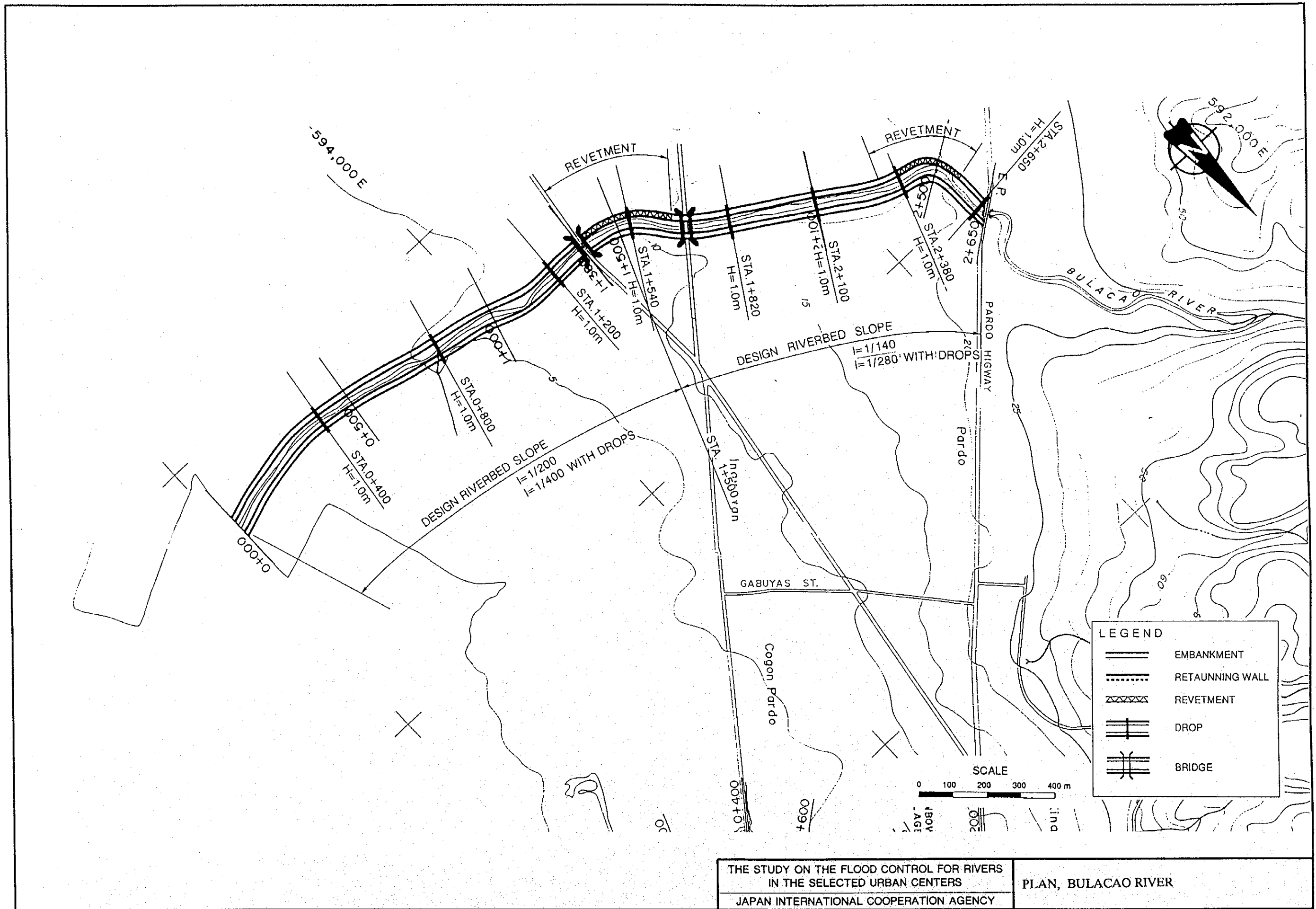
THE STUDY ON THE FLOOD CONTROL FOR RIVERS
IN THE SELECTED URBAN CENTERS
JAPAN INTERNATIONAL COOPERATION AGENCY

SUBJECT MANDURIAO-PANDAN CREEK (ROUTE 1) CITY NAME ILOILO CITY
SHEET CONTENTS: STA. 3+880, 3+930, 3+985, 4+035
SCALE H=1:400 V=1:200 DATE JULY 1994 SHEET NO. I-DR1-29-24

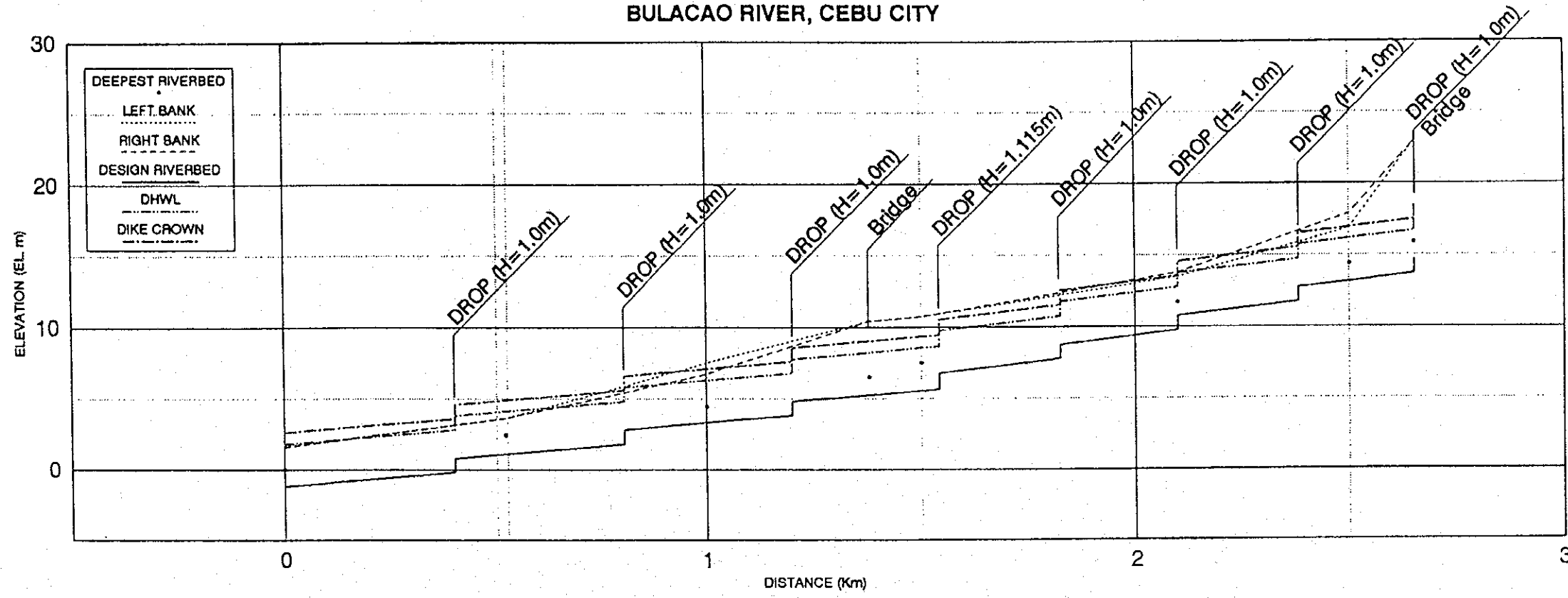


<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>SUBJECT: MANDURIAO-PANDAN CREEK (ROUTE 1)</p>	<p>CITY NAME: ILOILO CITY</p>
	<p>SHEET CONTENTS: STA. 4+090, 4+140, 4+190</p>	<p>SCALE: H=1:400 V=1:200</p>
	<p>DATE: JULY 1994</p>	<p>SHEET NO. I-DR1-29-25</p>

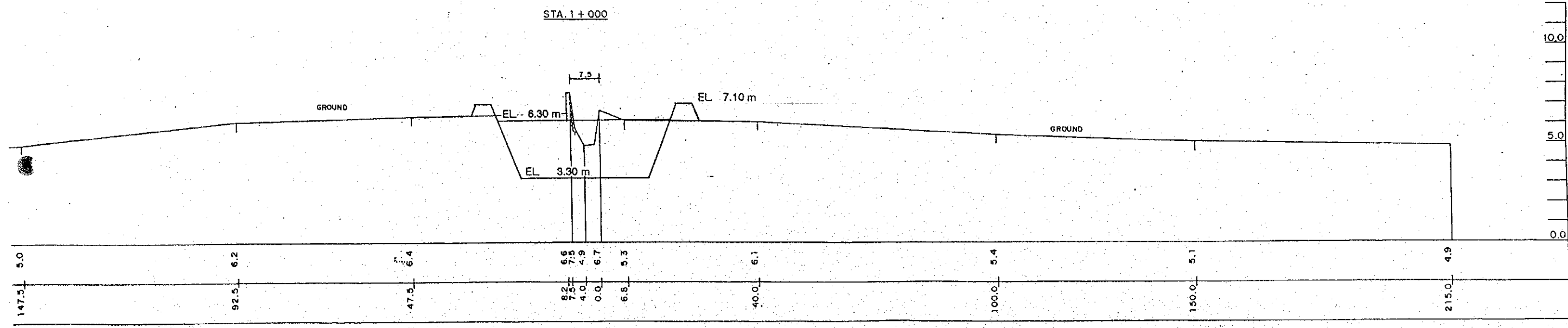
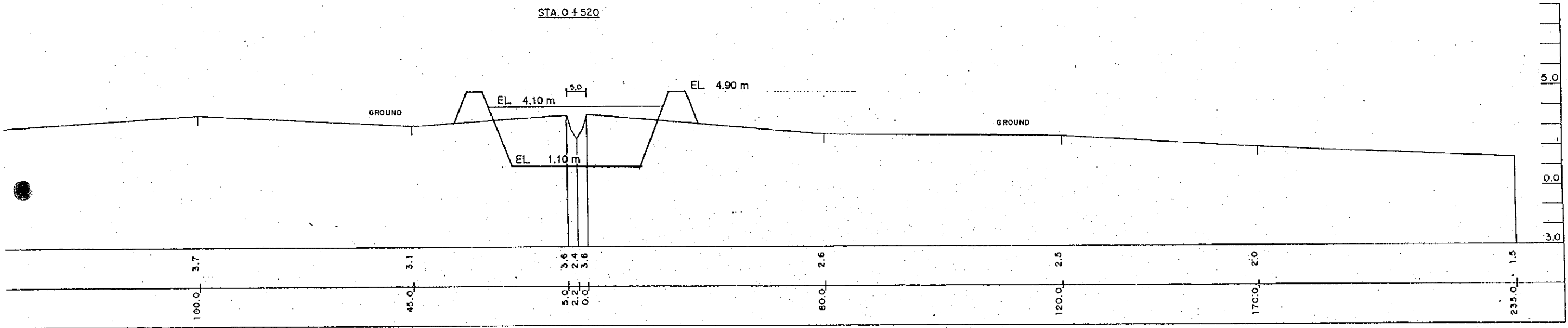
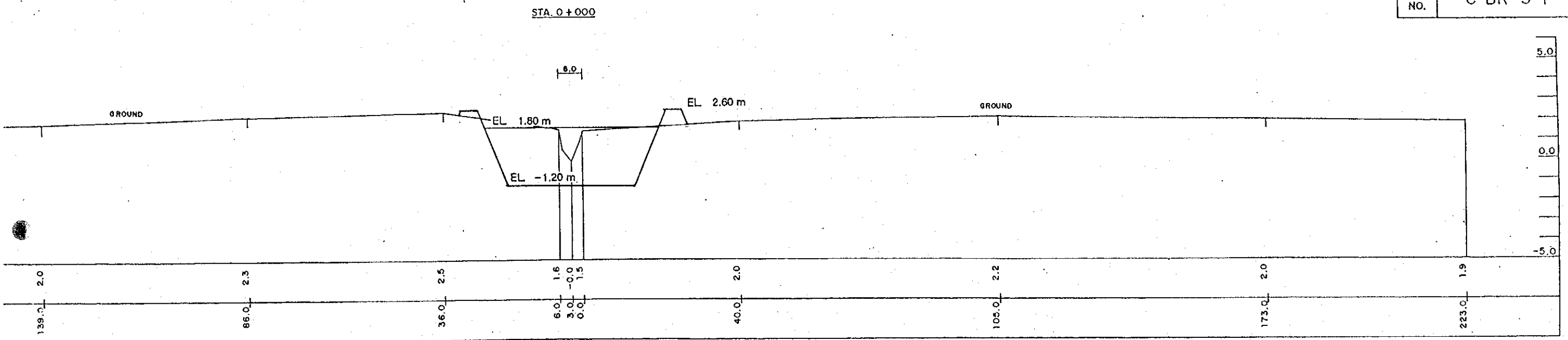
BULACAO RIVER IMPROVEMENT PLAN



LONGITUDINAL PROFILE BULACAO RIVER, CEBU CITY

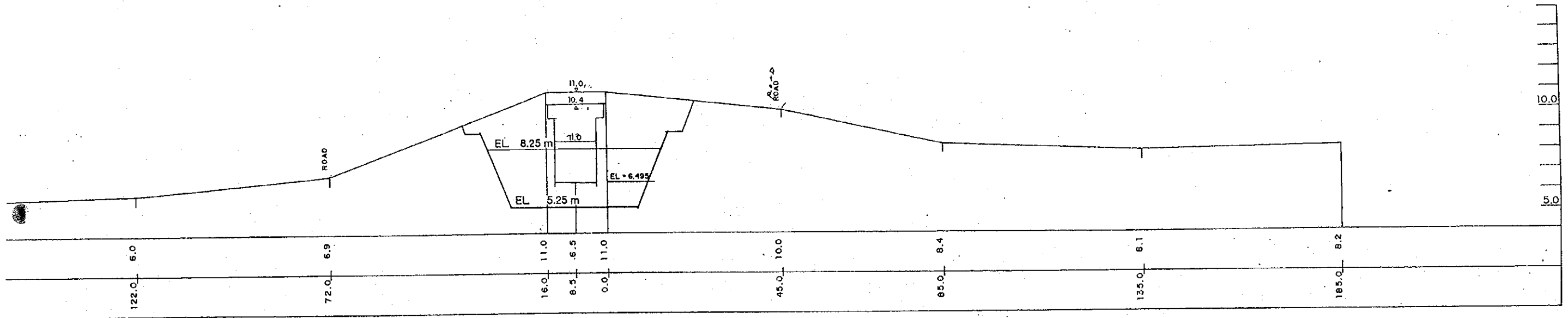


GRADIENT OF RIVERBED																						
DIKE CROWN	2.600	3.600	4.600	4.900	5.600	6.600	7.100	7.600	8.600	9.050	9.350	9.450	10.565	11.565	12.565	13.565	14.565	15.565	16.565	16.994	17.529	18.529
DESIGN HWL	1.800	2.800	3.800	4.100	4.800	5.800	6.300	6.800	7.800	8.250	8.550	8.650	9.765	10.765	11.765	12.765	13.765	14.765	15.765	16.194	16.729	17.729
DESIGN RIVERBED	-1.200	-0.200	0.800	1.100	1.800	2.800	3.300	3.800	4.800	5.250	5.550	5.650	6.765	7.765	8.765	9.765	10.765	11.765	12.765	13.194	13.729	14.729
DEEPEST RIVERBED	0.000		2.400				4.400			6.500	7.500					11.700				14.400	15.900	
LEFT BANK	1.500		3.600				6.700			10.400	10.700					13.800				17.900	22.800	
RIGHT BANK	1.800		3.800				7.500			10.400	10.700					13.500				16.900	22.900	
STATION No.	0.000	0.400	0.520		0.800		1.000		1.200	1.380	1.500	1.540		1.820		2.100		2.380	2.500		2.650	

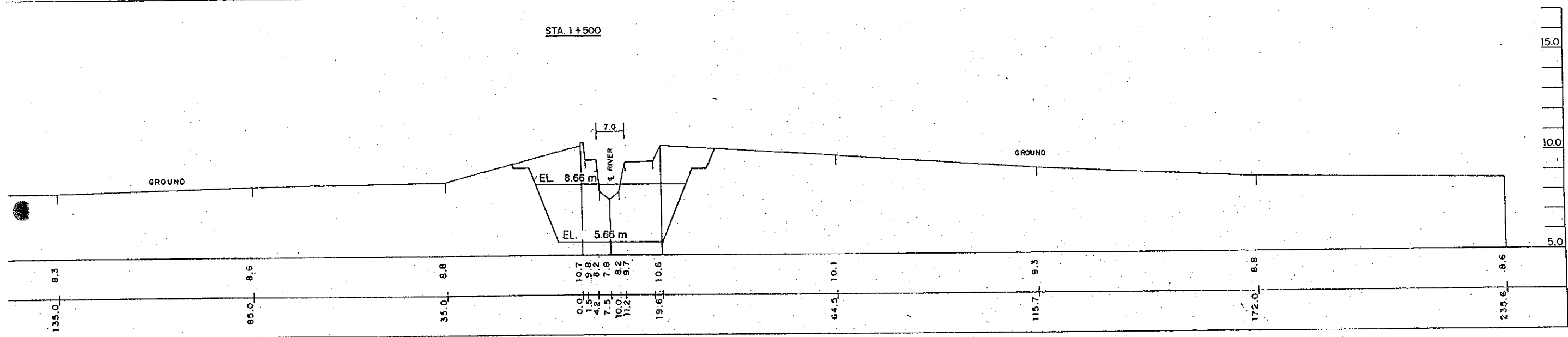


<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	SUBJECT : BULACAO RIVER	CITY NAME : CEBU CITY
	SHEET CONTENTS :	
SCALE H=1:500 V=1:100	DATE JULY 1993	SHEET NO. C-BR-3-1

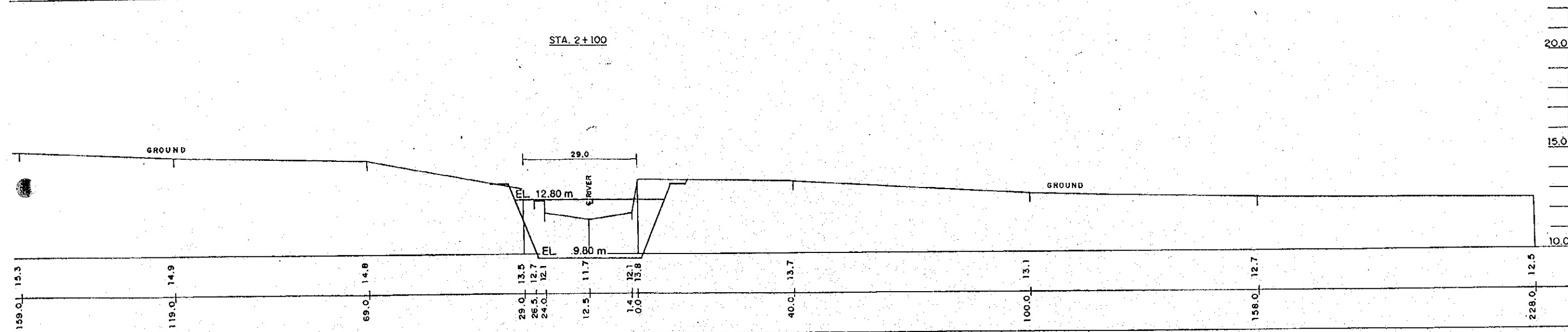
STA. 1 + 380 INAYAWAN BRIDGE



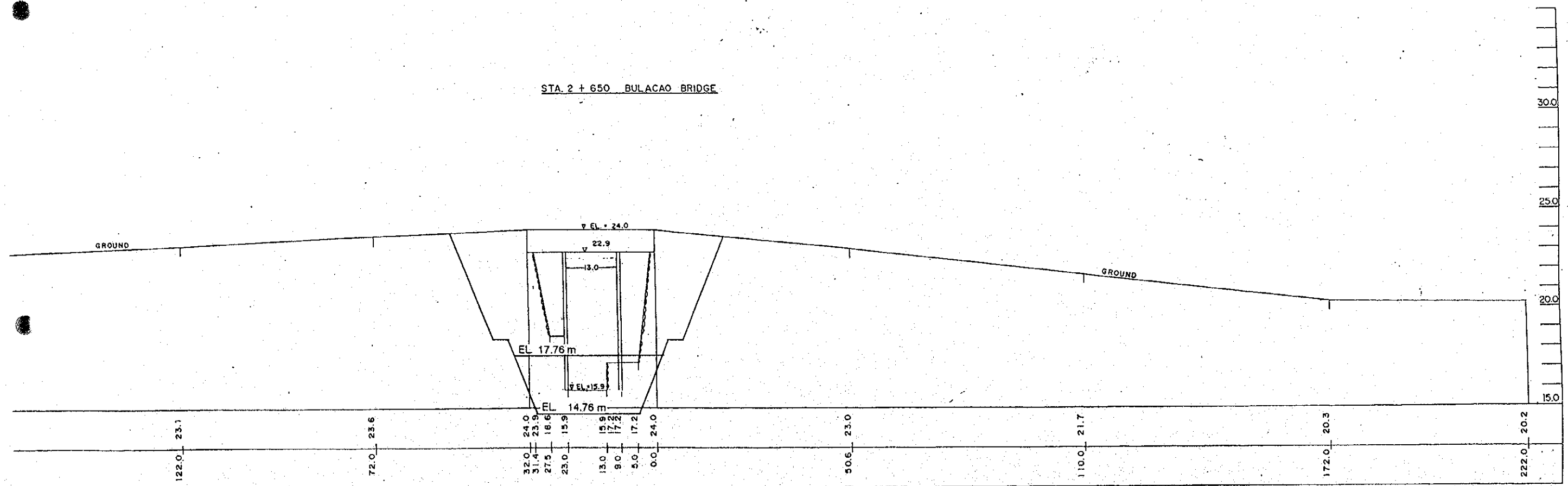
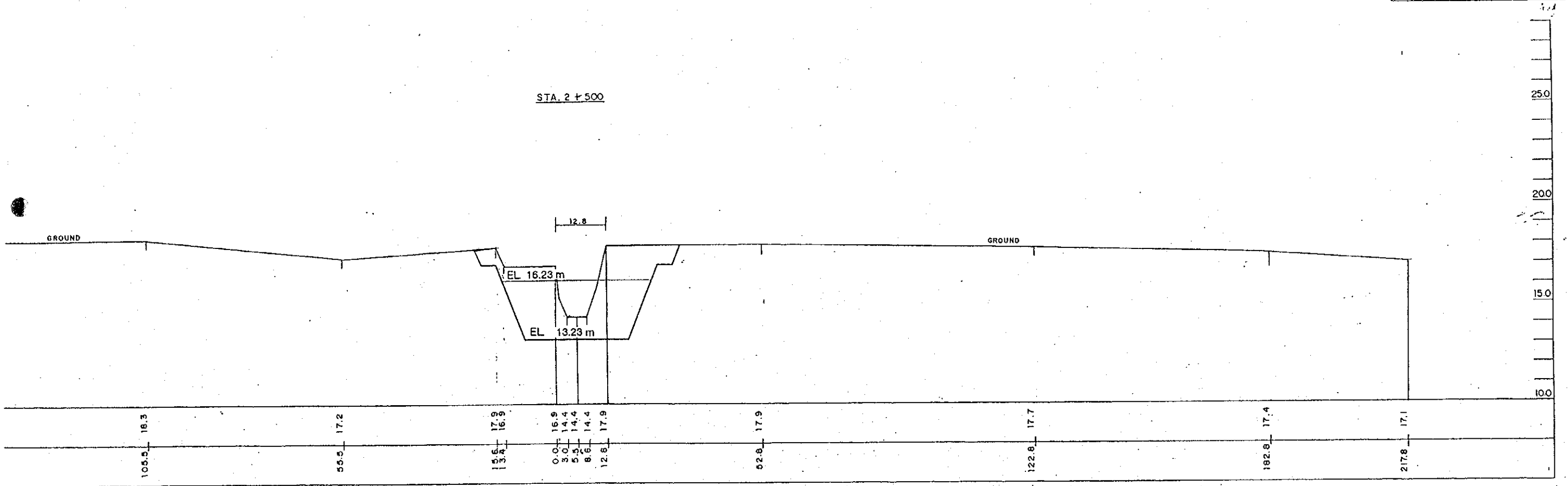
STA. 1 + 500



STA. 2 + 100

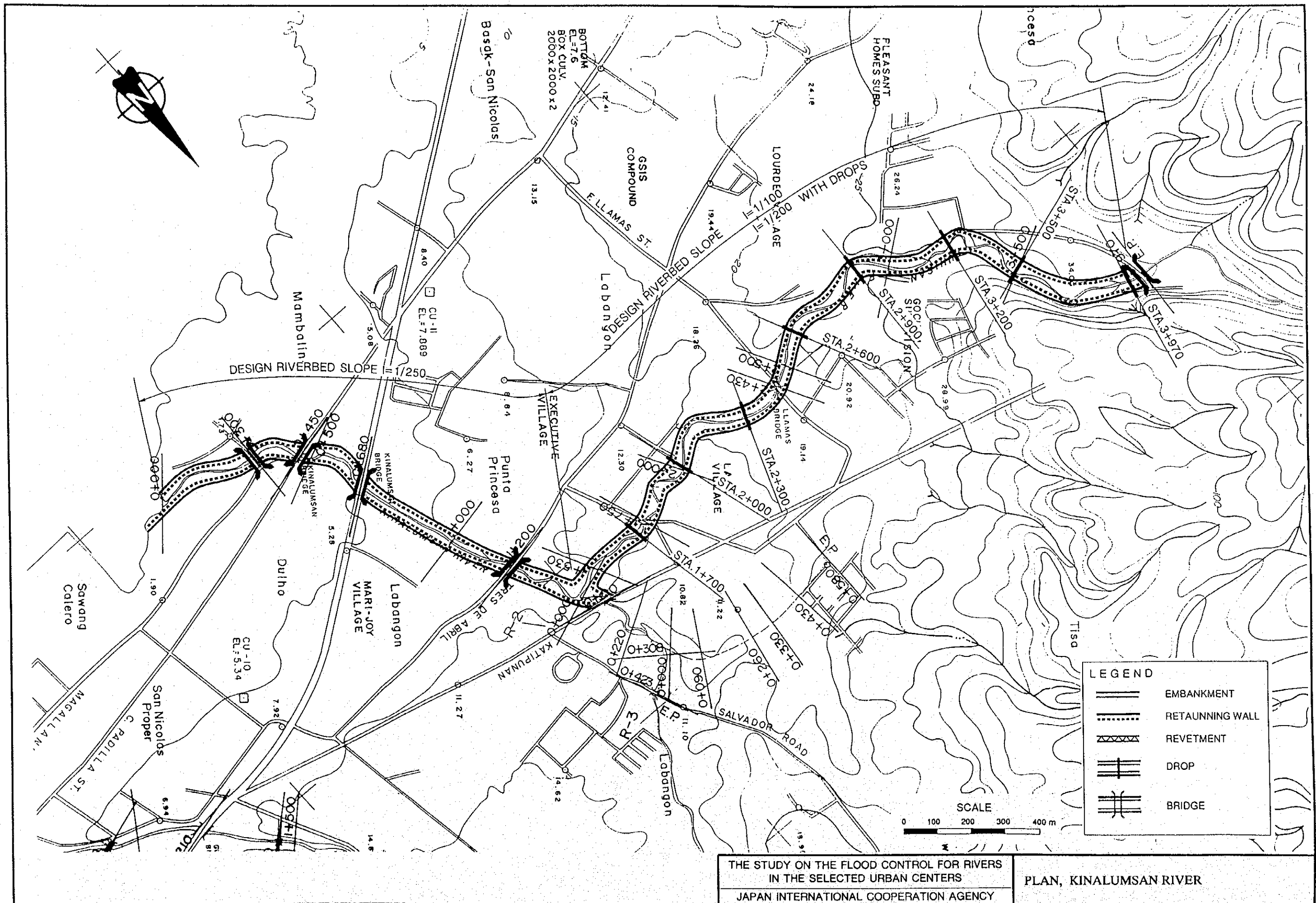


THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS	SUBJECT : BULACAO RIVER	CITY NAME : CEBU CITY
	SHEET CONTENTS :	
JAPAN INTERNATIONAL COOPERATION AGENCY	SCALE H=1:1000 V=1:200	DATE JULY 1993
		SHEET NO. C-BR-3-2



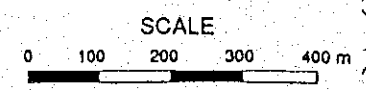
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS	SUBJECT : BULACAO RIVER	CITY NAME : CEBU CITY
	SHEET CONTENTS :	
JAPAN INTERNATIONAL COOPERATION AGENCY	SCALE H=1:1000 V=1:200	DATE JULY 1993
		SHEET NO. C-BR-3-3

KINALUMSAN RIVER IMPROVEMENT PLAN



LEGEND

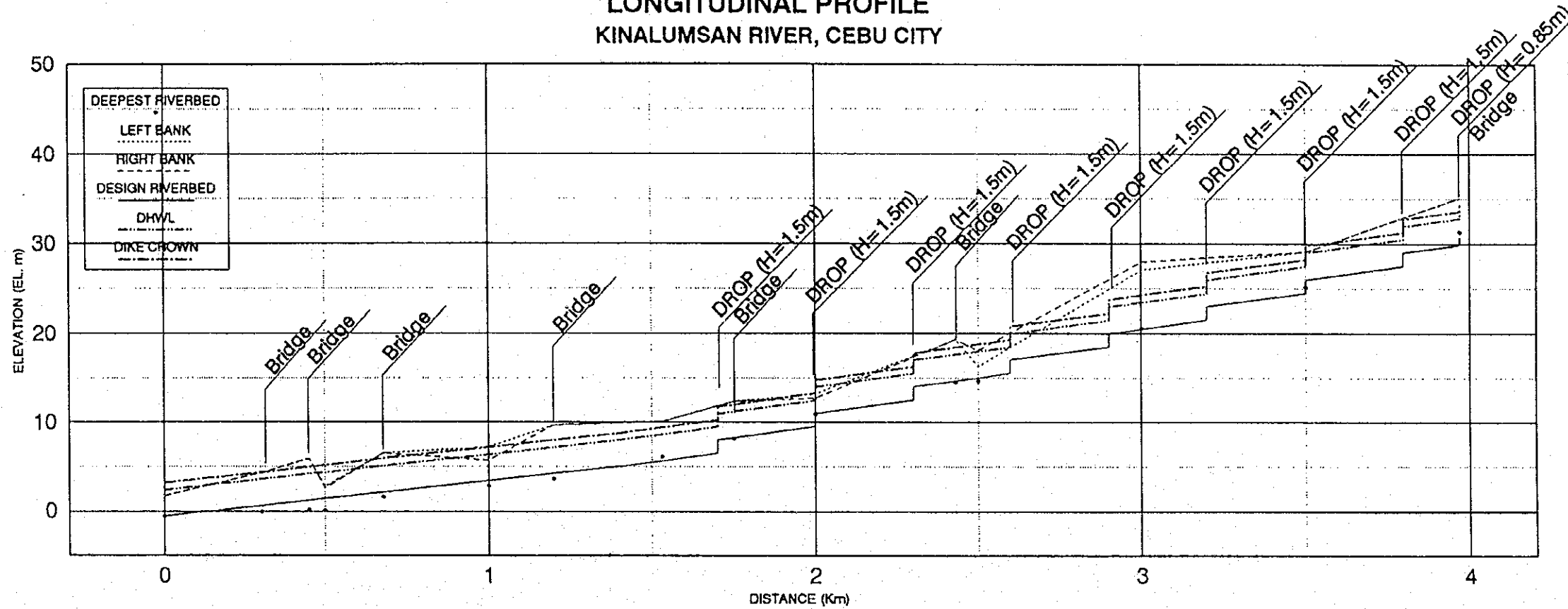
	EMBANKMENT
	RETAINING WALL
	REVETMENT
	DROP
	BRIDGE



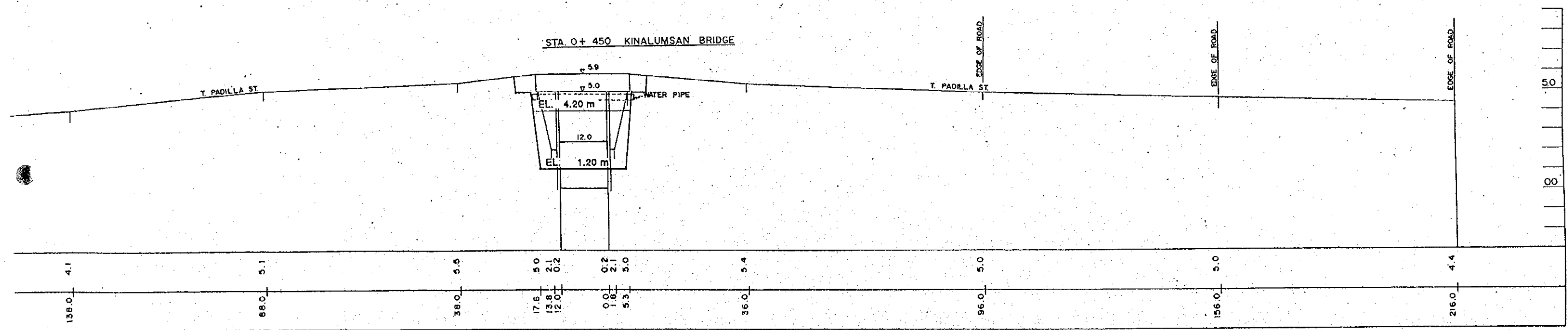
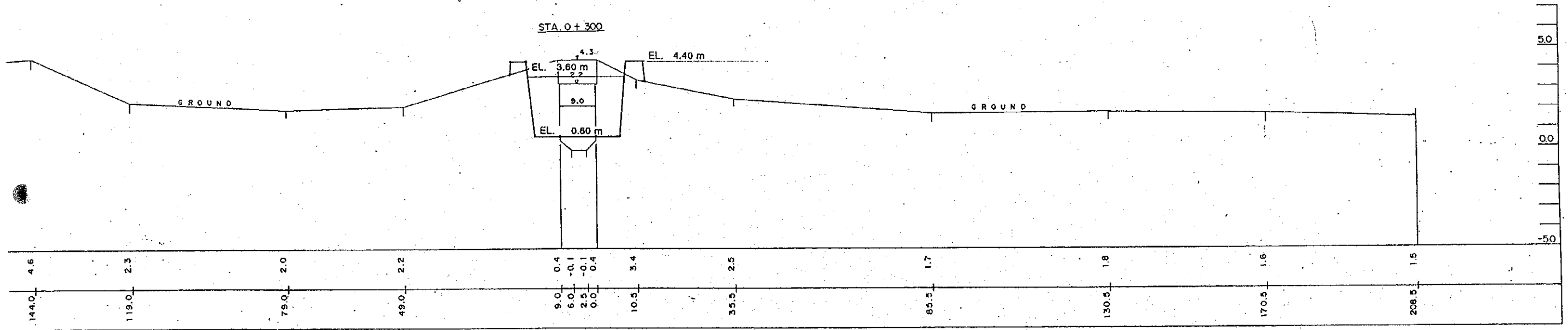
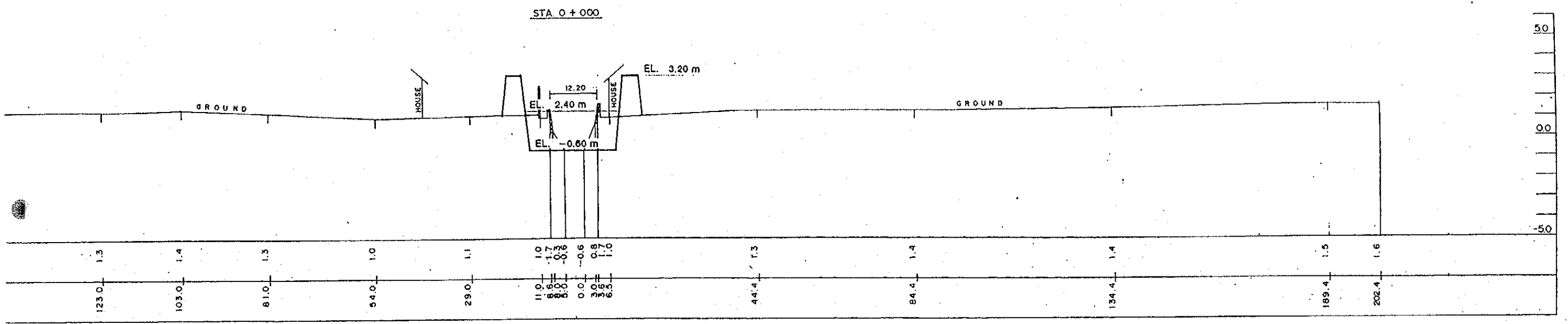
THE STUDY ON THE FLOOD CONTROL FOR RIVERS
 IN THE SELECTED URBAN CENTERS
 JAPAN INTERNATIONAL COOPERATION AGENCY

PLAN, KINALUMSAN RIVER

LONGITUDINAL PROFILE KINALUMSAN RIVER, CEBU CITY

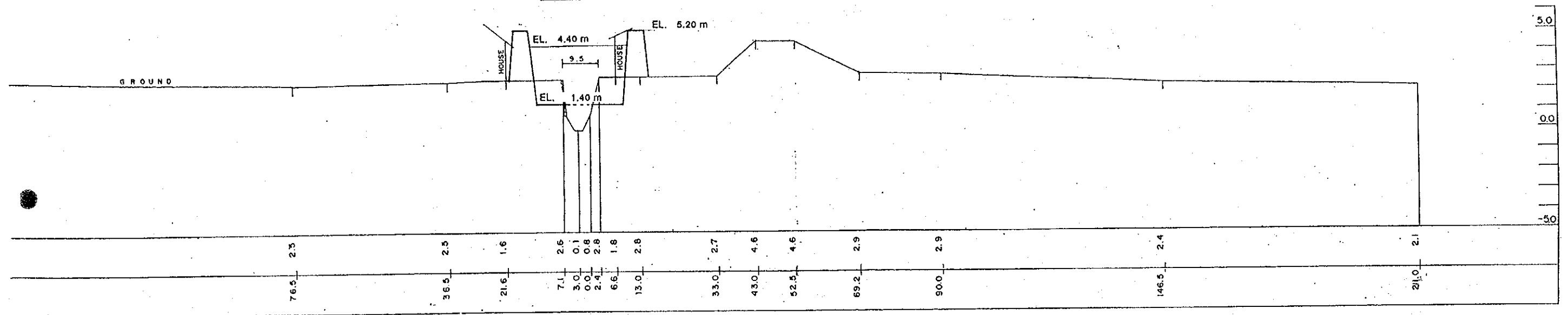


GRADIENT OF RIVERBED																																	
DIKE CROWN	3.200	4.400	5.000	5.200	5.920	7.200	8.000	8.800	9.450	10.300	11.800	12.050	13.300	14.800	16.300	17.800	18.450	18.800	19.300	20.800	22.300	23.800	24.300	25.300	26.800	28.300	29.800	31.300	32.800	33.650	34.500		
DESIGN HWL	2.400	3.800	4.200	4.400	5.120	6.400	7.200	8.000	8.650	9.500	11.000	11.250	12.500	14.000	15.500	17.000	17.650	18.000	18.500	20.000	21.500	23.000	23.500	24.500	26.000	27.500	29.000	30.500	32.000	32.850	33.700		
DESIGN RIVERBED	-0.600	0.600	1.200	1.400	2.120	3.400	4.200	5.000	5.650	6.500	8.000	8.250	9.500	11.000	12.500	14.000	14.650	15.000	15.500	17.000	18.500	20.000	20.500	21.500	23.000	24.500	26.000	27.500	29.000	30.500	32.000	32.850	33.700
DEEPEST RIVERBED	-0.600	-0.100	0.150	0.100	1.550	2.800	3.600	4.400	5.050	5.900	7.400	7.650	8.900	10.400	11.900	13.400	14.050	14.400	14.900	16.400	17.900	19.400	20.000	21.000	22.500	24.000	25.500	27.000	28.500	30.000	31.300	32.150	33.000
LEFT BANK	1.700	4.300	5.900	2.600	6.520	5.700	9.680	10.100	10.100	12.340	12.700	12.340	19.300	18.100	28.000	28.000	28.000	28.000	28.000	28.000	28.000	28.000	28.000	28.000	29.100	29.100	29.100	35.100	35.100	35.100	35.100	35.100	
RIGHT BANK	1.700	4.300	5.900	2.800	6.520	7.200	9.680	10.100	10.100	12.340	13.200	12.340	19.300	16.300	27.100	27.100	27.100	27.100	27.100	27.100	27.100	27.100	27.100	27.100	29.100	29.100	29.100	35.100	35.100	35.100	35.100	35.100	
STATION No.	0.000	0.300	0.450	0.500	0.660	1.000	1.200	1.400	1.530	1.700	1.750	2.000	2.300	2.430	2.500	2.600	2.900	3.000	3.200	3.500	3.800	3.970											

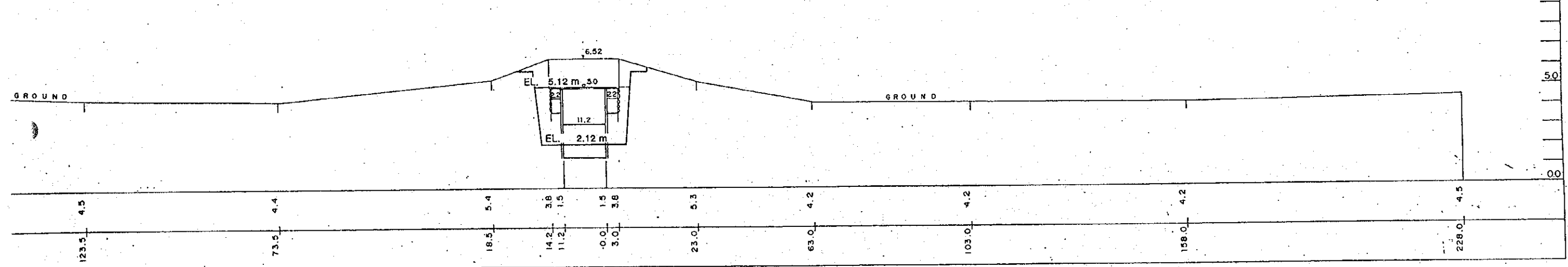


<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>SUBJECT : KINALUMSAN RIVER</p>	<p>CITY NAME : CEBU CITY</p>
	<p>SHEET CONTENTS :</p>	
	<p>SCALE H=1:1000 V=1:200</p>	<p>DATE JULY 1993</p>

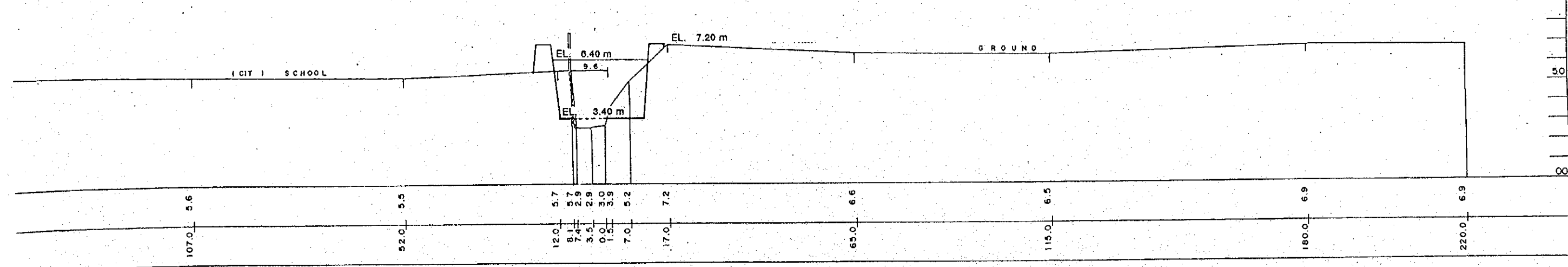
STA. 0 + 500



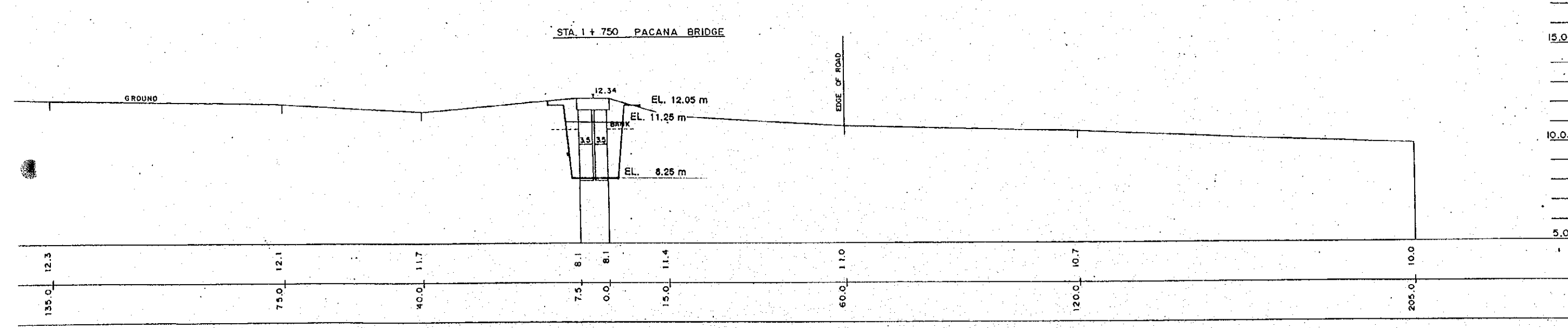
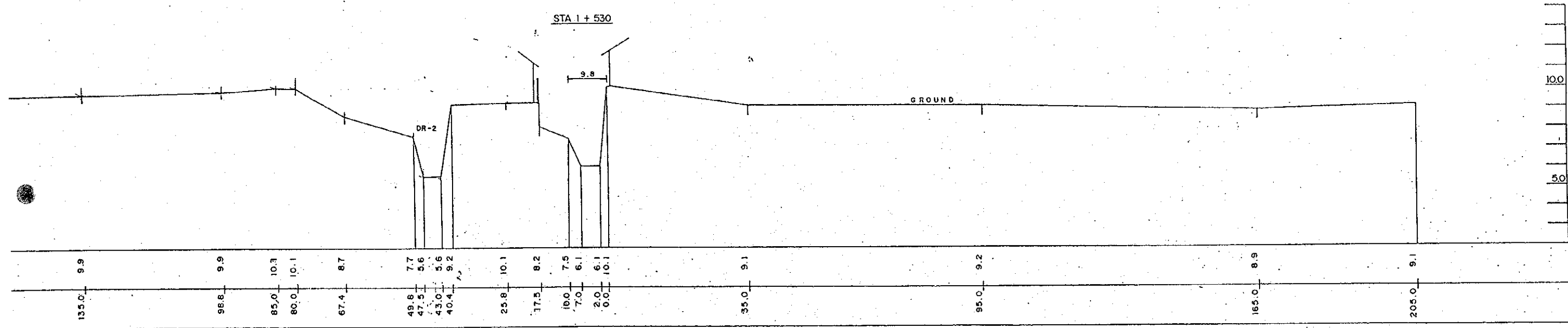
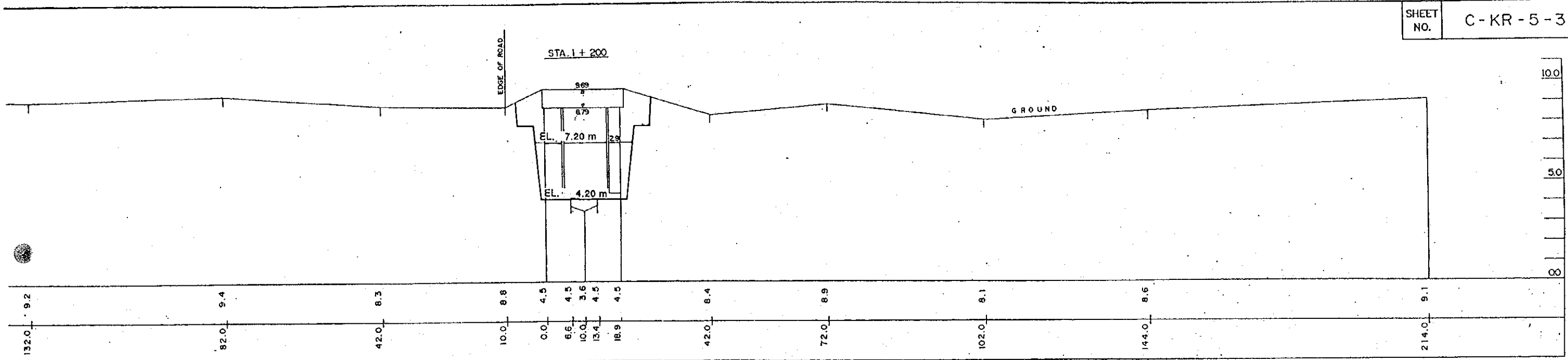
STA. 0 + 680 KINALUMSAN BRIDGE II



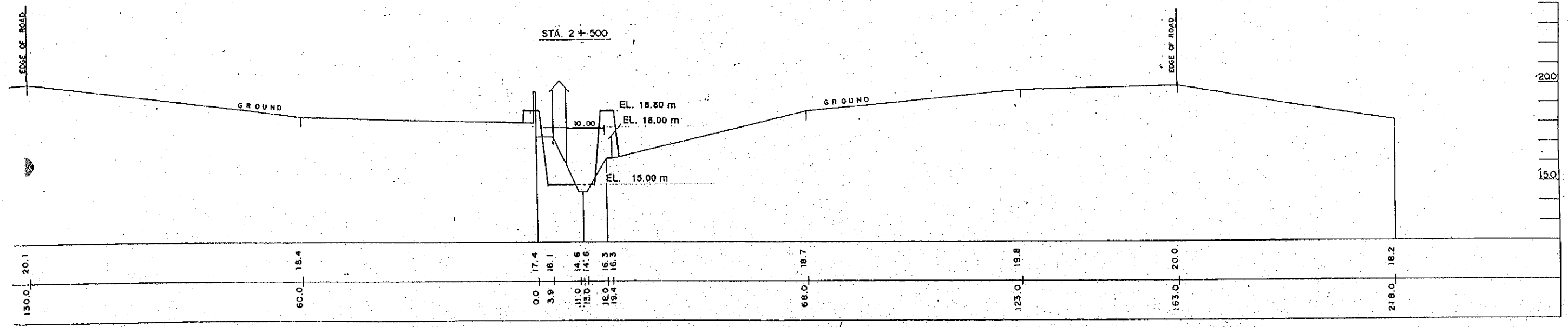
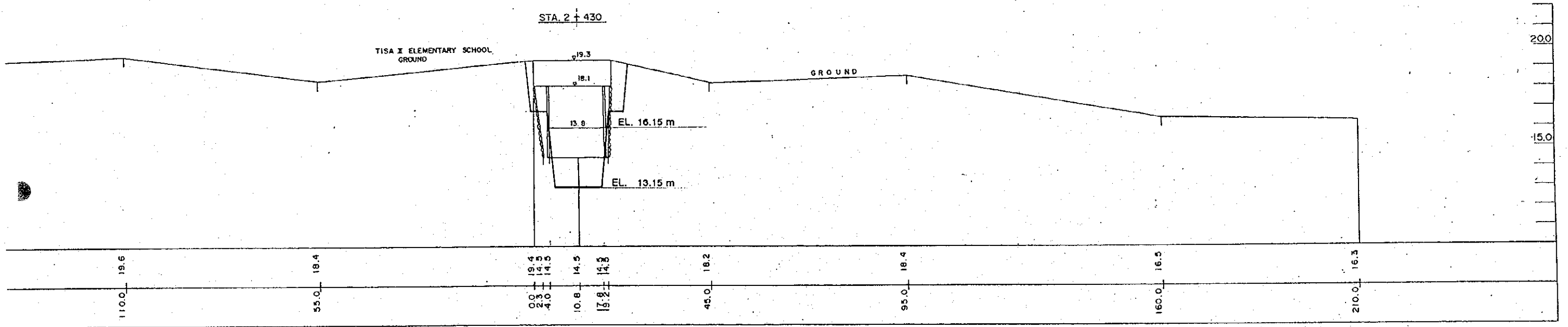
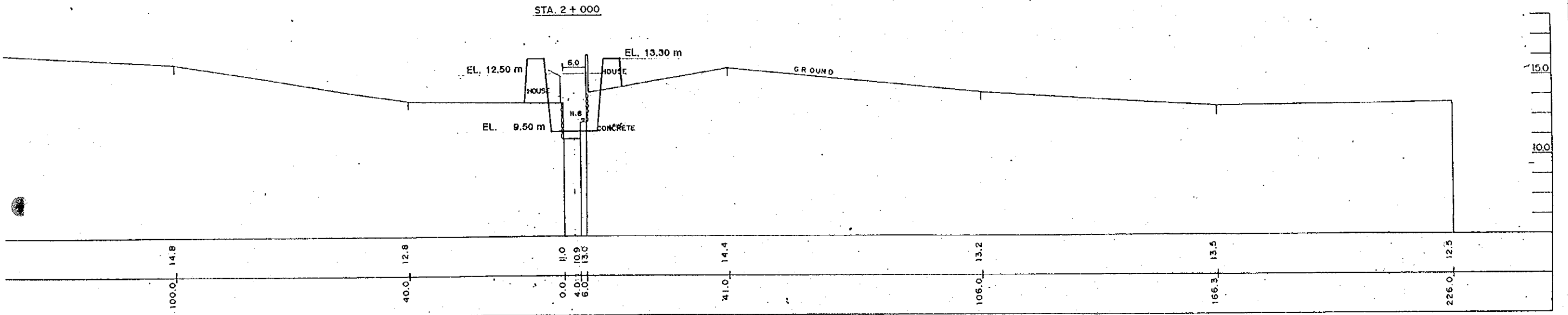
STA. 1 + 000



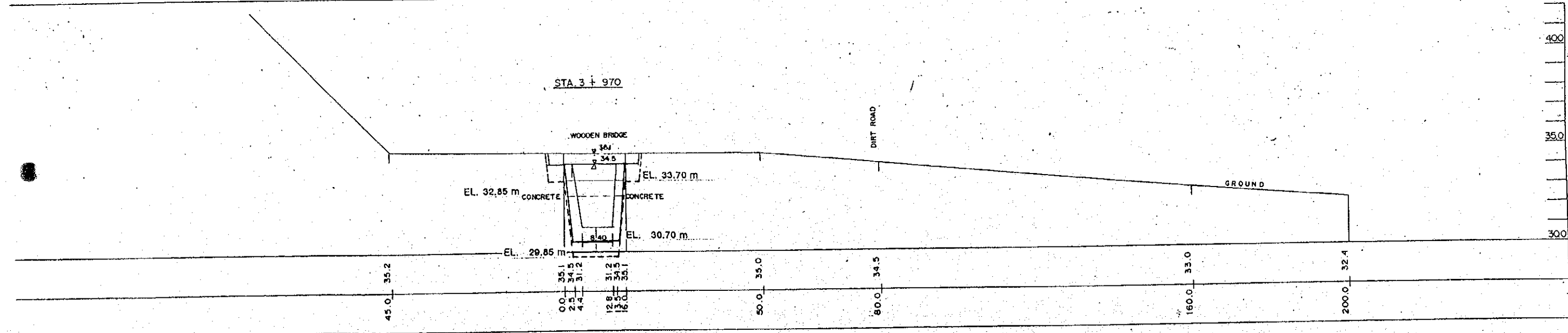
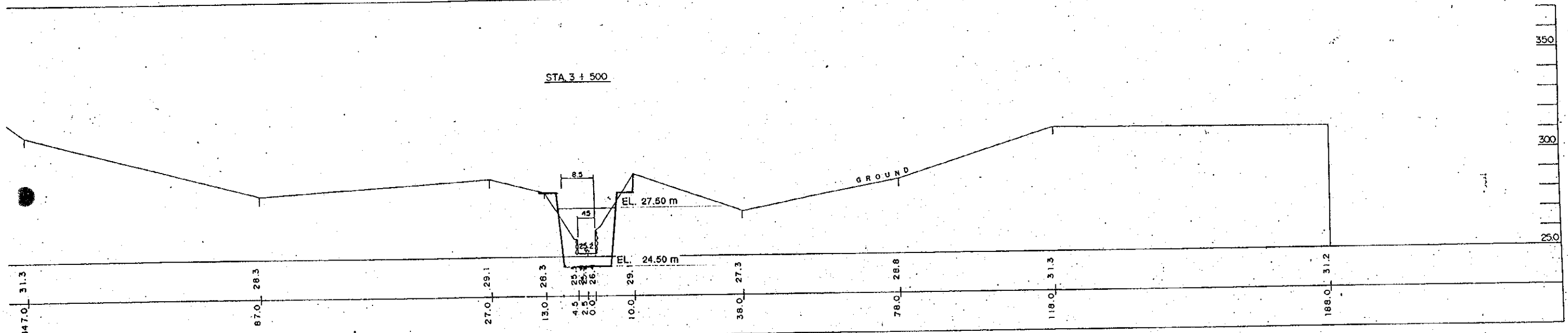
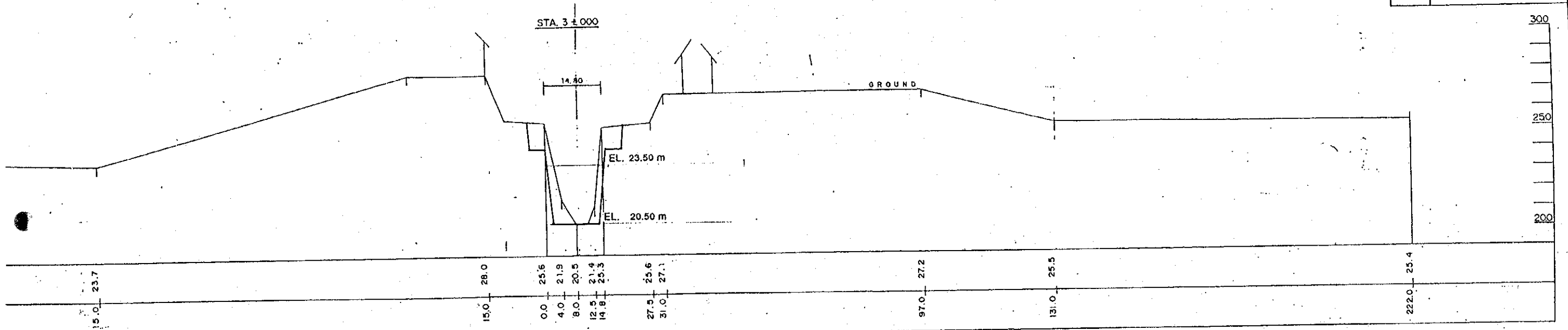
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS		SUBJECT : KINALUMSAN RIVER		CITY NAME : CEBU CITY	
JAPAN INTERNATIONAL COOPERATION AGENCY		SHEET CONTENTS :		SHEET NO. C-KR-5-2	
SCALE H=1:1000 V=1:200		DATE JULY 1993		STA. 0+500, STA. 0+680, STA 1+000	



THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS	SUBJECT : KINALUMSAN RIVER	CITY NAME : CEBU CITY
	SHEET CONTENTS :	
JAPAN INTERNATIONAL COOPERATION AGENCY	SCALE H=1:1000 V=1:200	DATE JULY 1993
		SHEET NO. C-KR-5-3

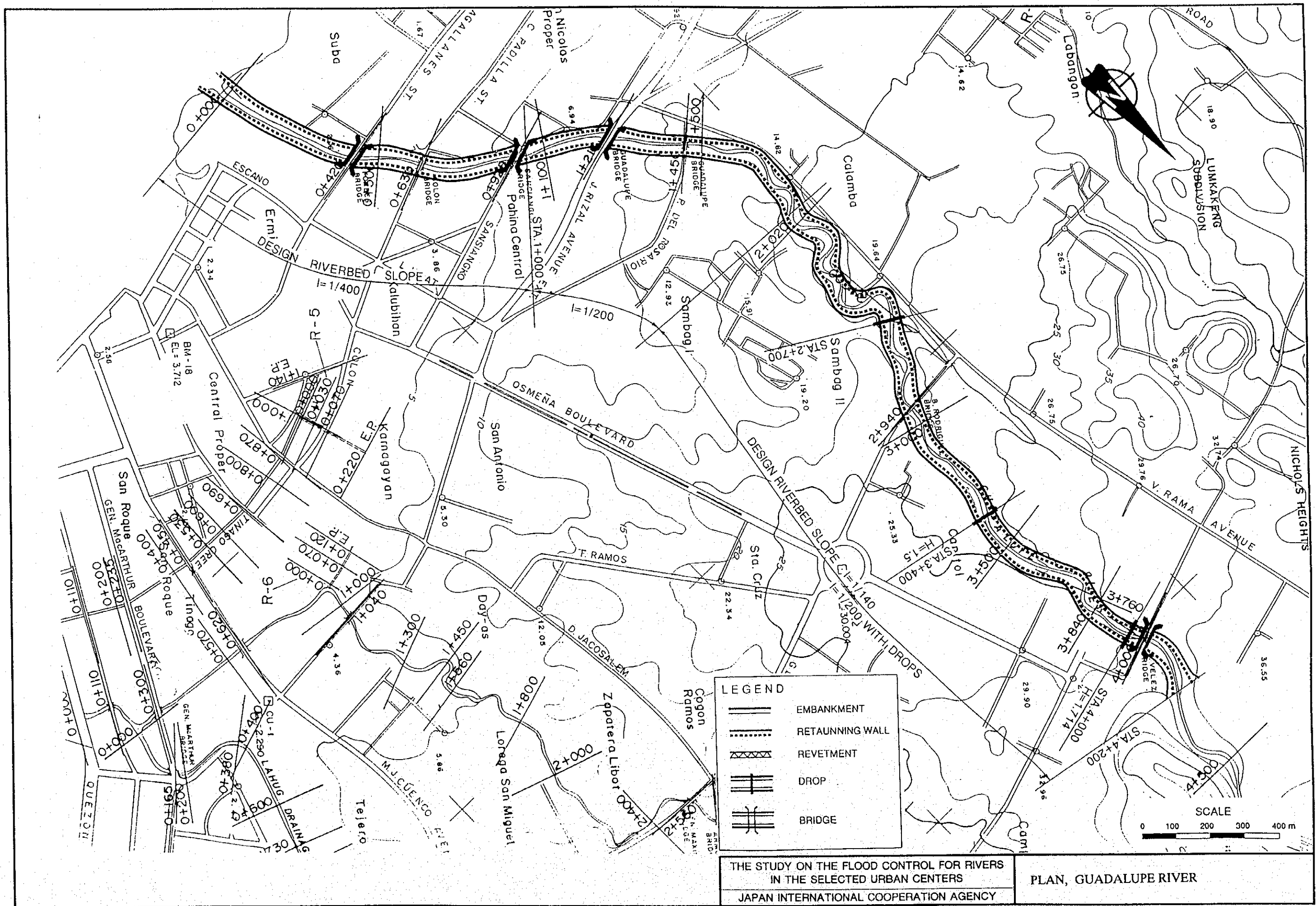


THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT : KINALUMSAN RIVER	CITY NAME : CEBU CITY
	SHEET CONTENTS :	
SCALE H=1:1000 V=1:200	DATE JULY 1993	SHEET NO. C-KR-5-4



<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>SUBJECT : KINALUMSAN RIVER</p>	<p>CITY NAME : CEBU CITY</p>
	<p>SCALE H=1:1000 V=1:200</p>	<p>DATE JULY 1993</p>

GUADALUPE RIVER IMPROVEMENT PLAN

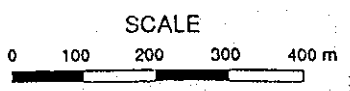


LEGEND

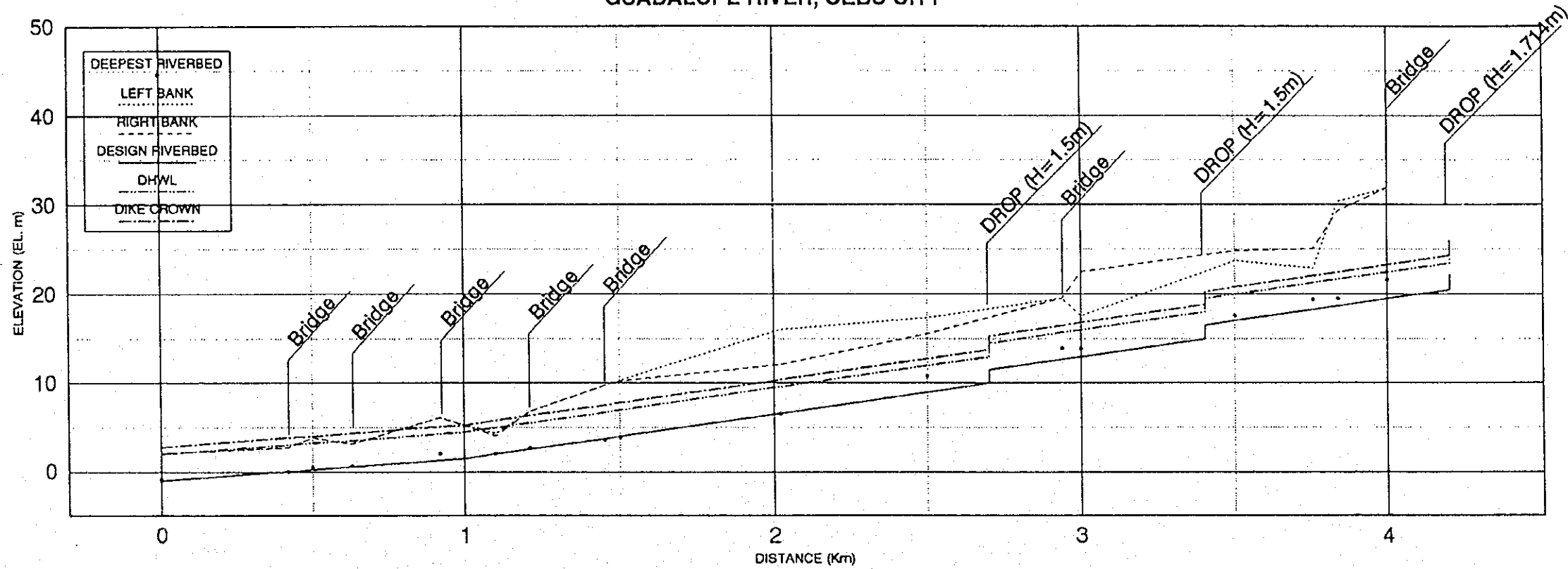
	EMBANKMENT
	RETAINING WALL
	REVETMENT
	DROP
	BRIDGE

THE STUDY ON THE FLOOD CONTROL FOR RIVERS
 IN THE SELECTED URBAN CENTERS
 JAPAN INTERNATIONAL COOPERATION AGENCY

PLAN, GUADALUPE RIVER

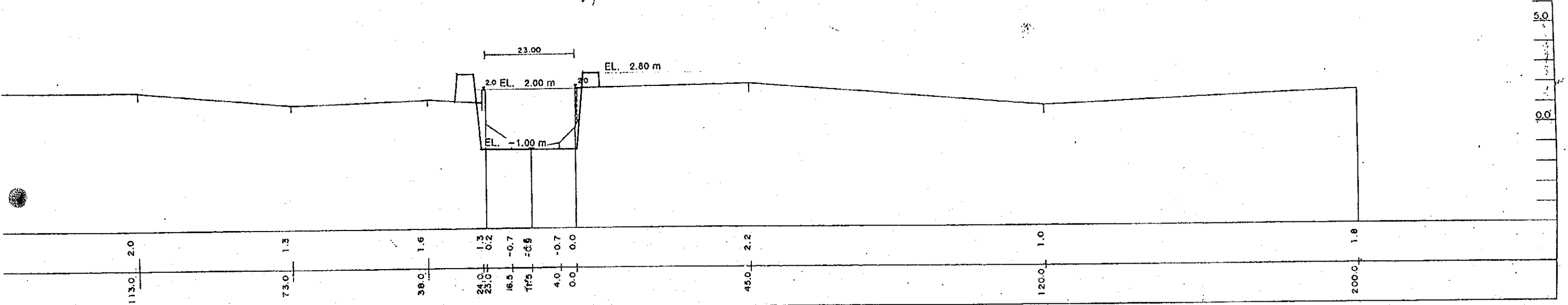


LONGITUDINAL PROFILE GUADALUPE RIVER, CEBU CITY

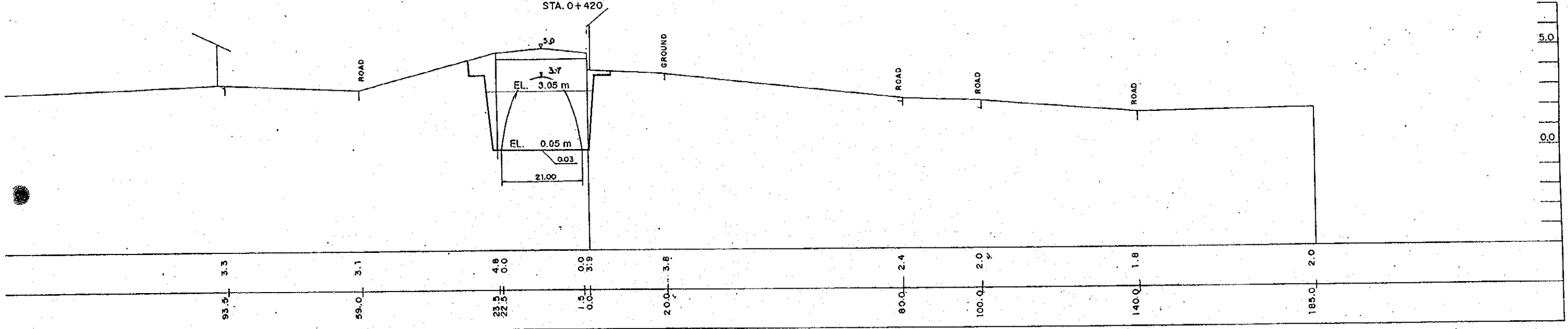


GRADIENT OF RIVERBED	1/200		1/200		1/140 1/280, with Drops																					
DIKE CROWN	2.800	3.850	4.050	4.375	5.100	5.300	5.800	6.350	7.550	7.800	10.300	10.400	12.600	13.800	15.300	16.500	16.800	18.800	20.300	20.800	22.100	22.500	23.300	24.900	26.014	
DESIGN HWL	2.000	3.050	3.250	3.575	4.300	4.500	5.000	5.550	6.750	7.000	9.500	9.600	12.000	13.000	14.500	15.700	16.000	18.000	19.500	20.000	21.300	21.700	22.500	23.500	25.214	
DESIGN RIVERBED	-1.000	0.050	0.250	0.575	1.300	1.500	2.000	2.550	3.750	4.000	6.500	6.600	9.000	10.000	11.500	12.700	13.000	15.000	16.500	17.000	18.300	18.700	19.500	20.500	22.214	
DEEPEST RIVERBED	-0.970	0.000	0.500	0.630	2.000	2.000	2.660	3.590	3.900	6.510	10.800	13.910	13.900	17.570	19.370	19.470	21.600	20.500	22.214							
LEFT BANK	2.000	2.700	3.800	3.150	6.100	4.000	6.800	9.700	10.200	12.100	15.500	19.500	22.500	24.800	25.000	28.300	31.800									
RIGHT BANK	2.000	2.700	3.800	3.150	6.100	4.300	6.800	9.700	10.300	16.000	17.300	19.500	17.500	23.700	22.900	30.300	31.800									
STATION No.	0.000	0.420	0.500	0.630	0.920	1.000	1.100	1.210	1.450	1.500	2.000	2.020	2.500	2.700	2.940	3.000	3.400	3.500	3.760	3.840	4.000	4.200				

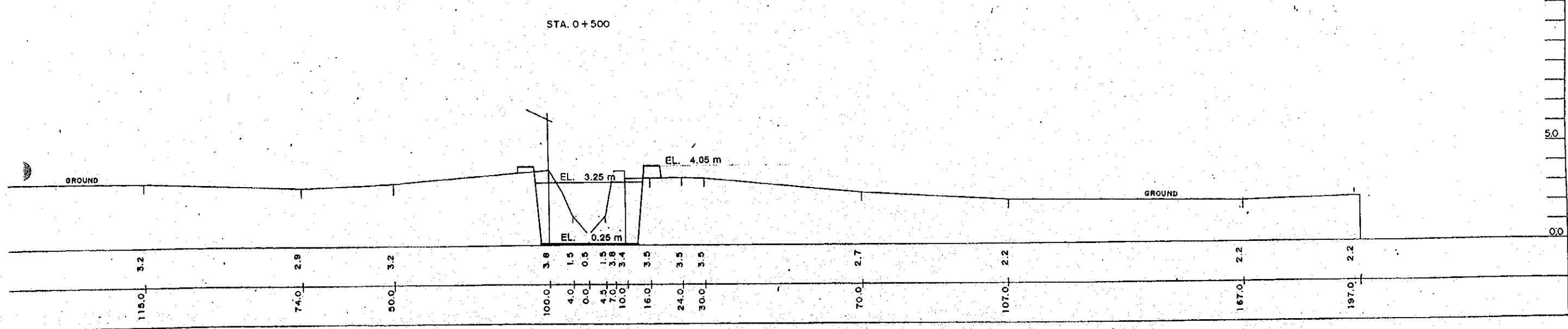
STA. 0+000



STA. 0+420



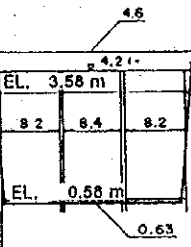
STA. 0+500



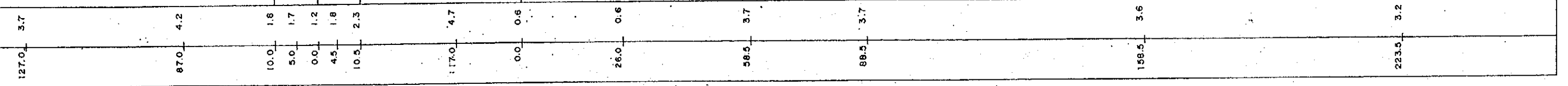
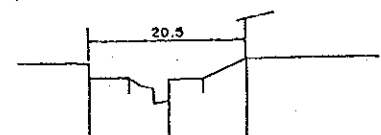
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT : GUADALUPE RIVER	CITY NAME : CEBU CITY
	SHEET CONTENTS :	
SCALE H=1:1000 V=1:200	DATE JULY 1993	SHEET NO. C-GR-11-1

STA. 0+630

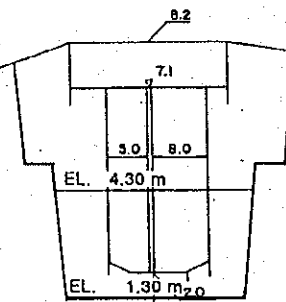
COLON BRIDGE



STA. 0+600



STA. 0+920



ROAD

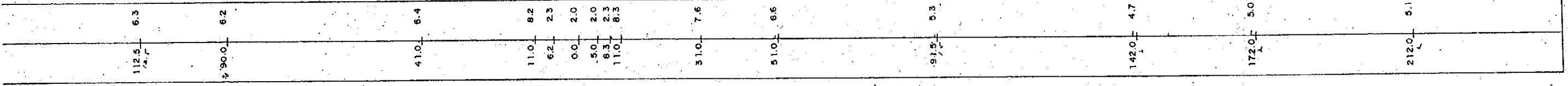
GROUND

ROAD

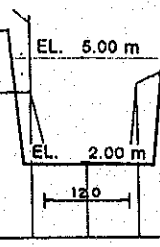
GROUND

ROAD

GROUND



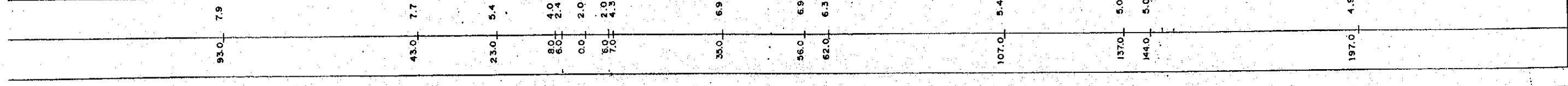
STA. 1+100



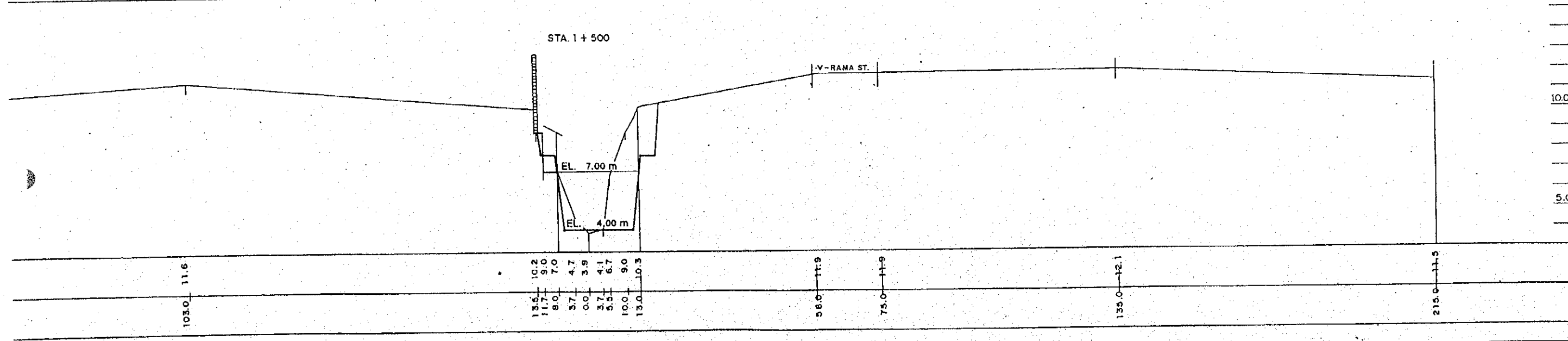
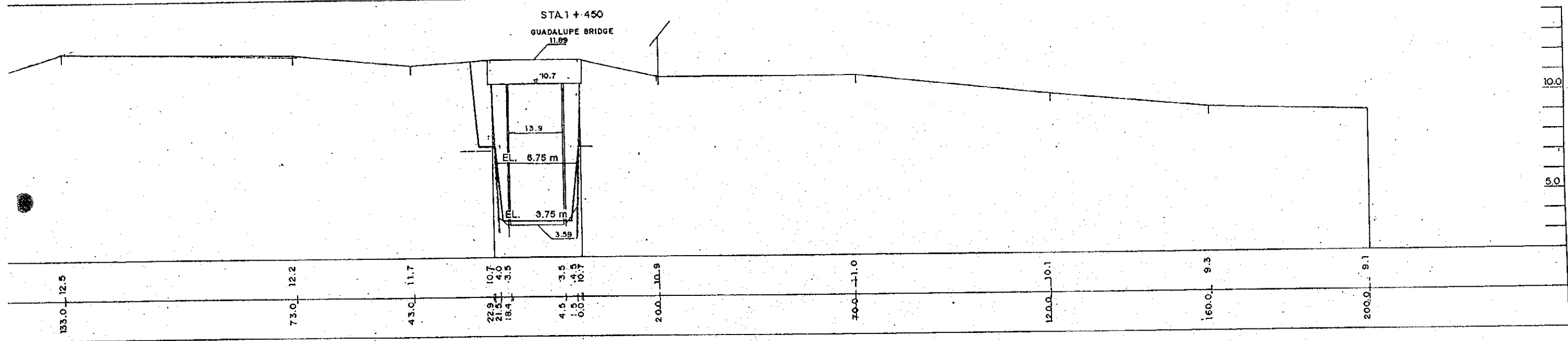
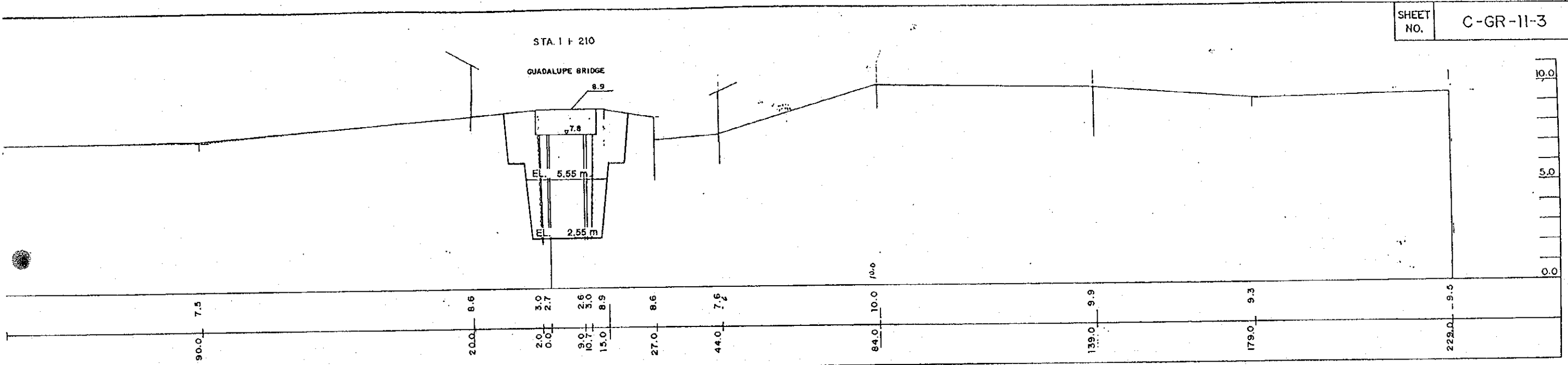
EL. 5.00 m

EL. 2.00 m

EL. 5.80 m

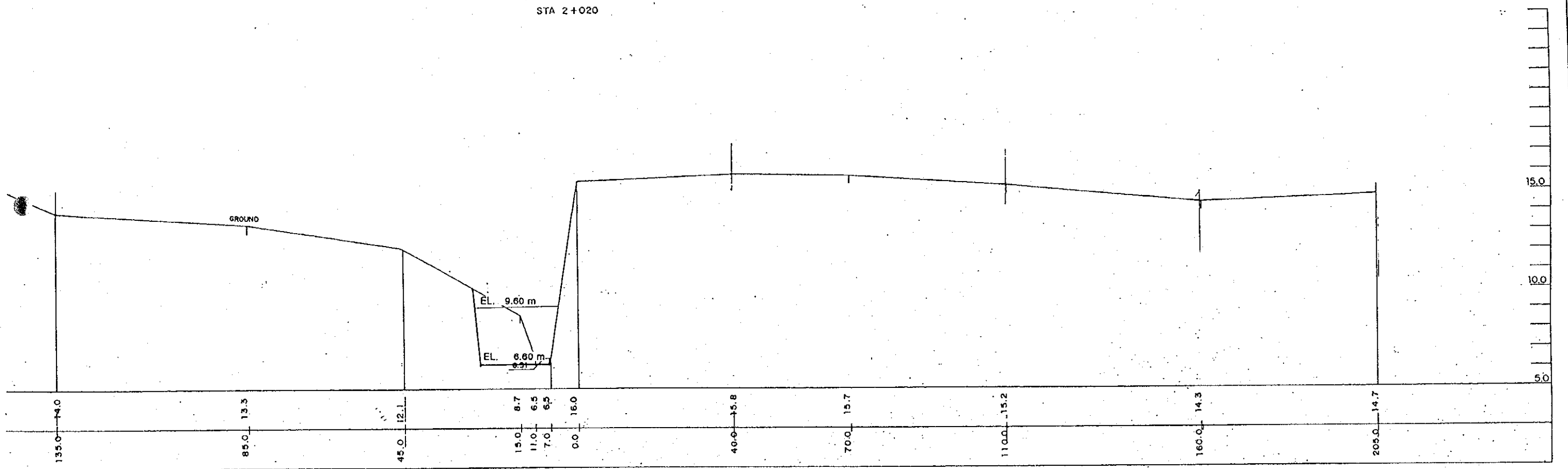


THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS		SUBJECT : GUADALUPE RIVER	CITY NAME : CEBU CITY
JAPAN INTERNATIONAL COOPERATION AGENCY		SHEET CONTENTS :	
SCALE H=1:1000 V=1:200	DATE JULY 1993	SHEET NO. C-GR-11-2	

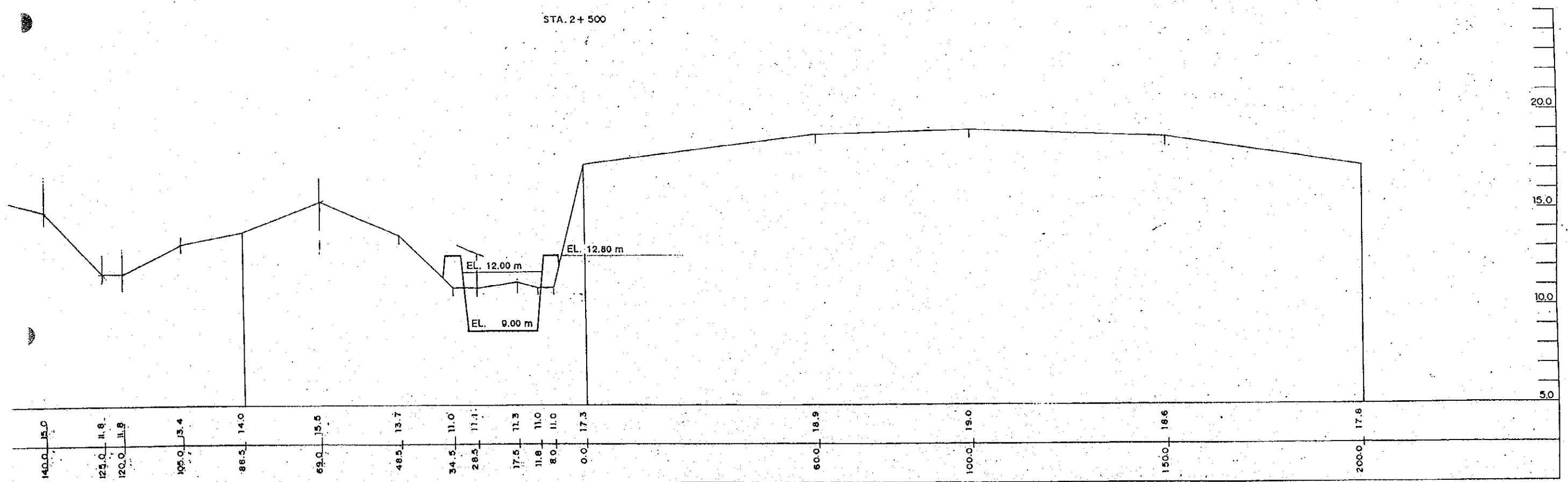


<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	SUBJECT : GUADALUPE RIVER	CITY NAME : CEBU CITY
	SHEET CONTENTS :	
	SCALE H=1:1000 V=1:200	DATE JULY 1993

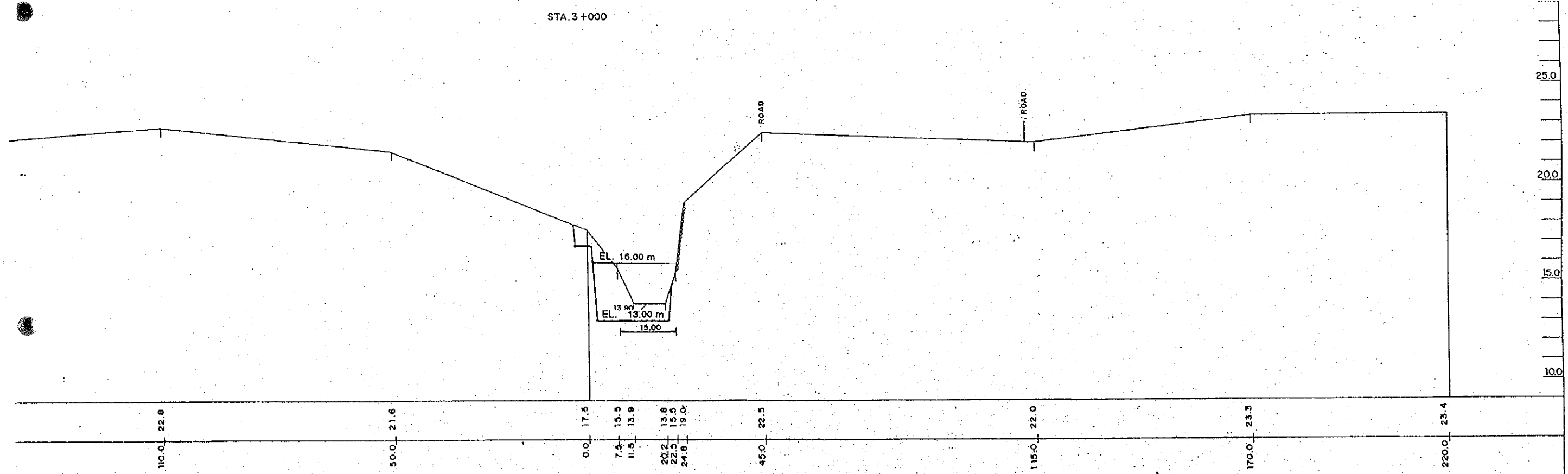
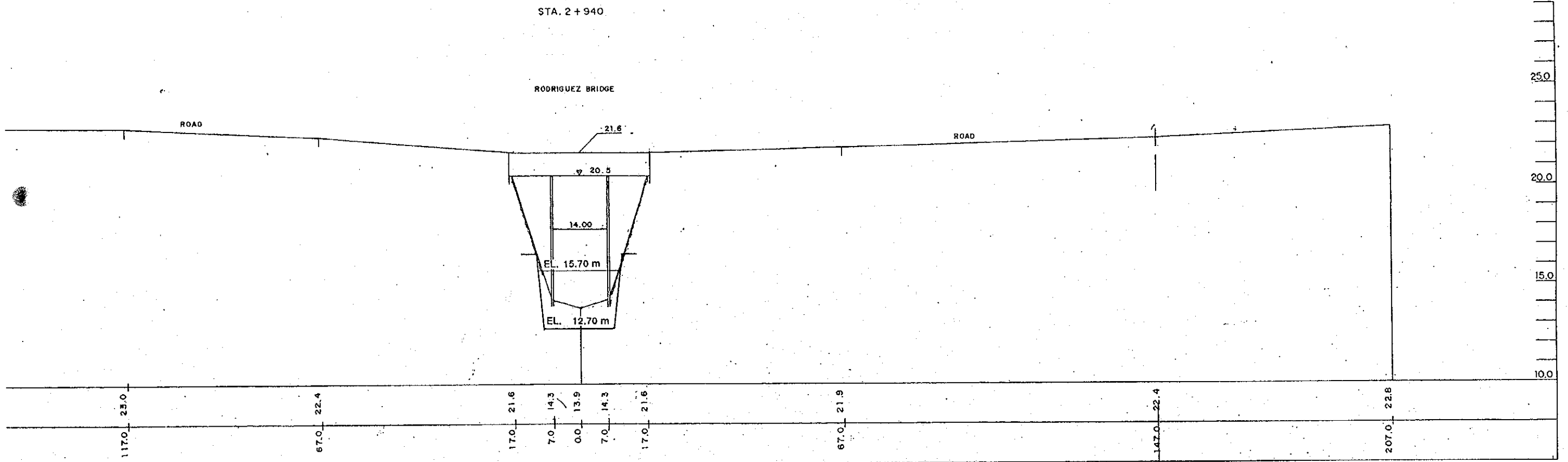
STA 2+020



STA. 2+500

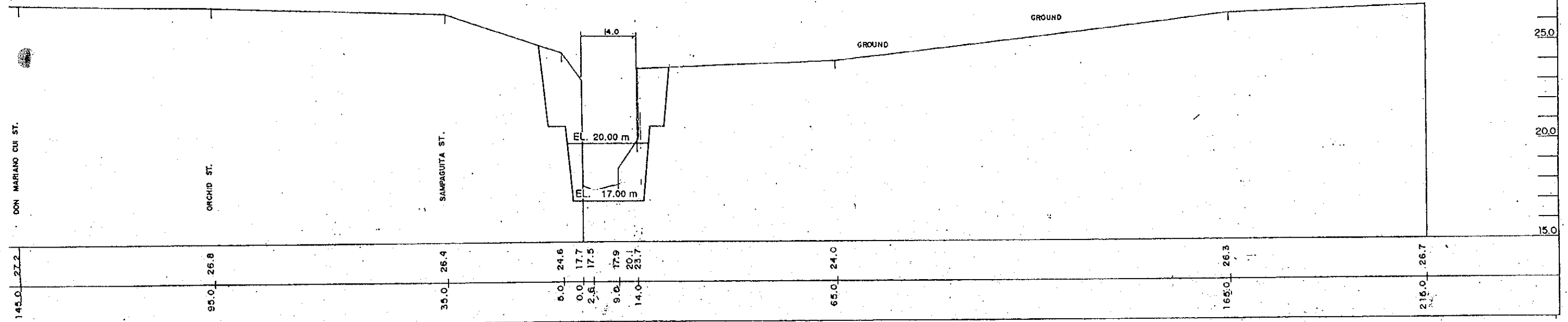


<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	SUBJECT : GUADALUPE RIVER	CITY NAME : CEBU CITY
	SHEET CONTENTS :	
	SCALE H=1:1000 V=1:200	DATE JULY 1993

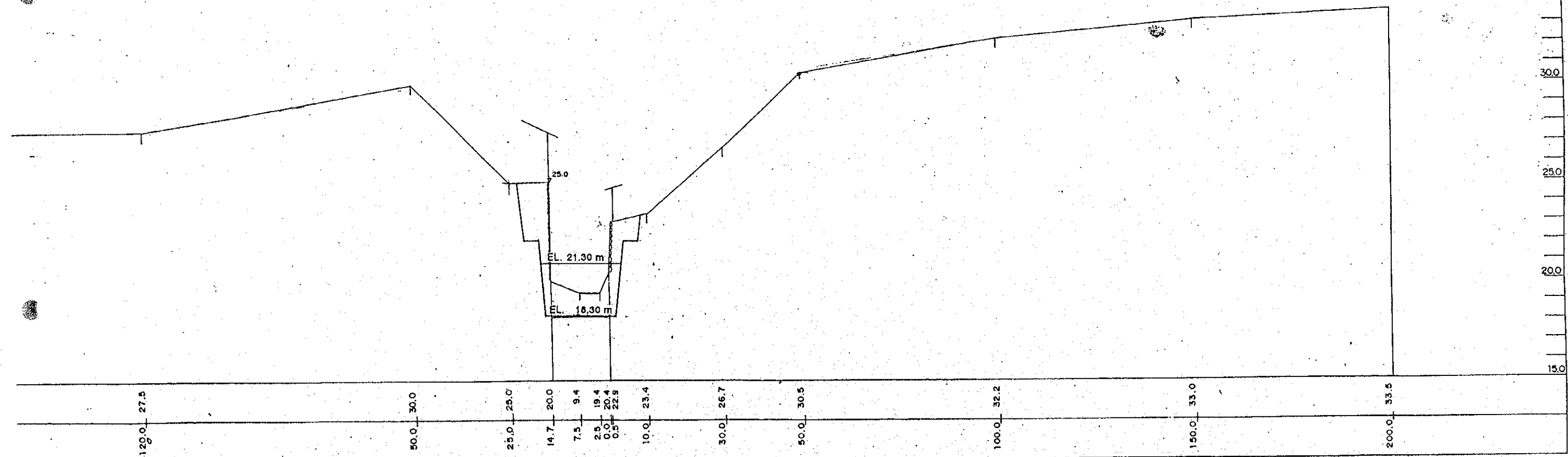


THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS	SUBJECT : GUADALUPE RIVER	CITY NAME : CEBU CITY
	SHEET CONTENTS :	
JAPAN INTERNATIONAL COOPERATION AGENCY	SCALE H=1:1000 V=1:200	DATE JULY 1993
		SHEET NO. C-GR-11-5

STA. 3+500



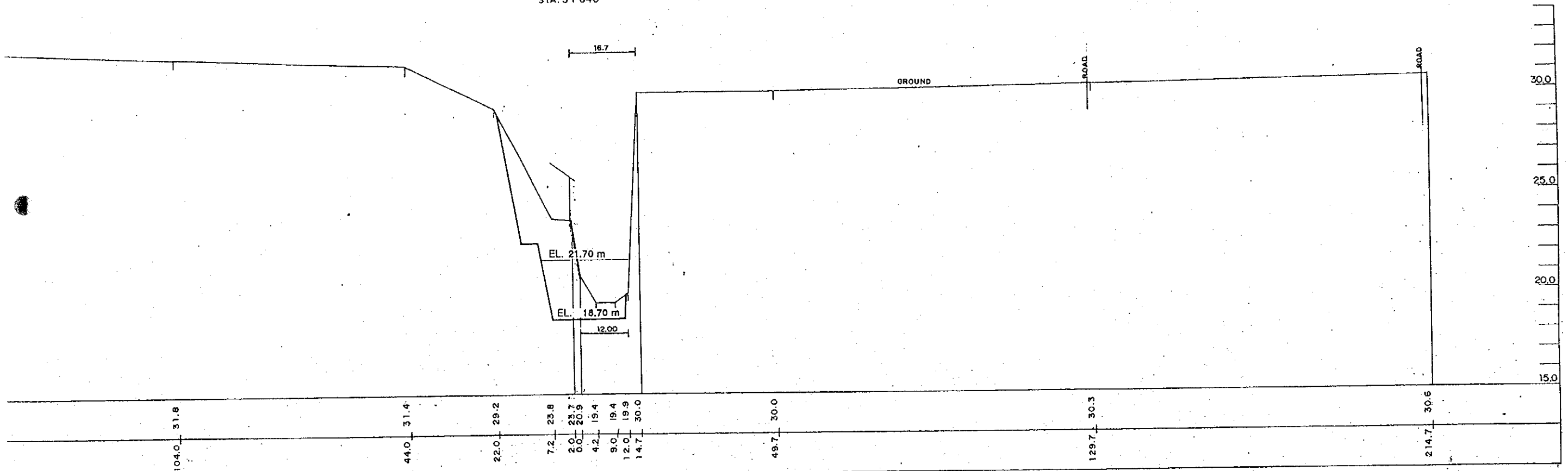
STA. 3+760



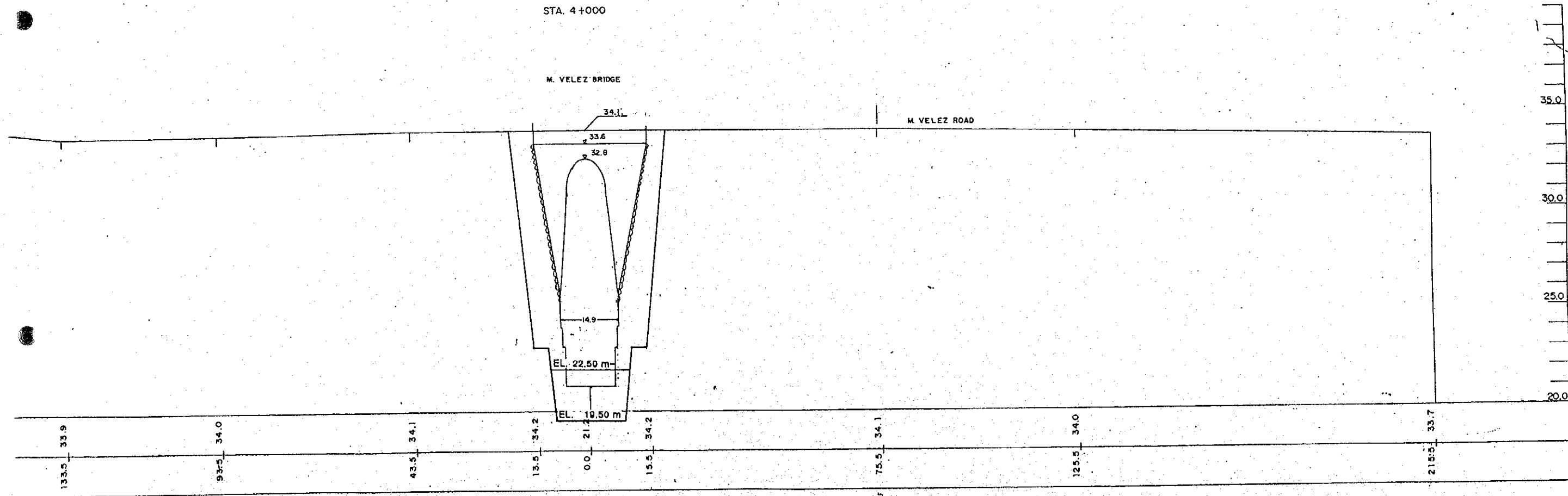
<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>SUBJECT : GUADALUPE RIVER</p>	<p>CITY NAME : CEBU CITY</p>
	<p>SHEET CONTENTS :</p>	
	<p>SCALE H=1:1000 V=1:200</p>	<p>DATE JULY 1993</p>

STA. 3 + 500.00, STA. 3 + 760.00

STA. 3+840

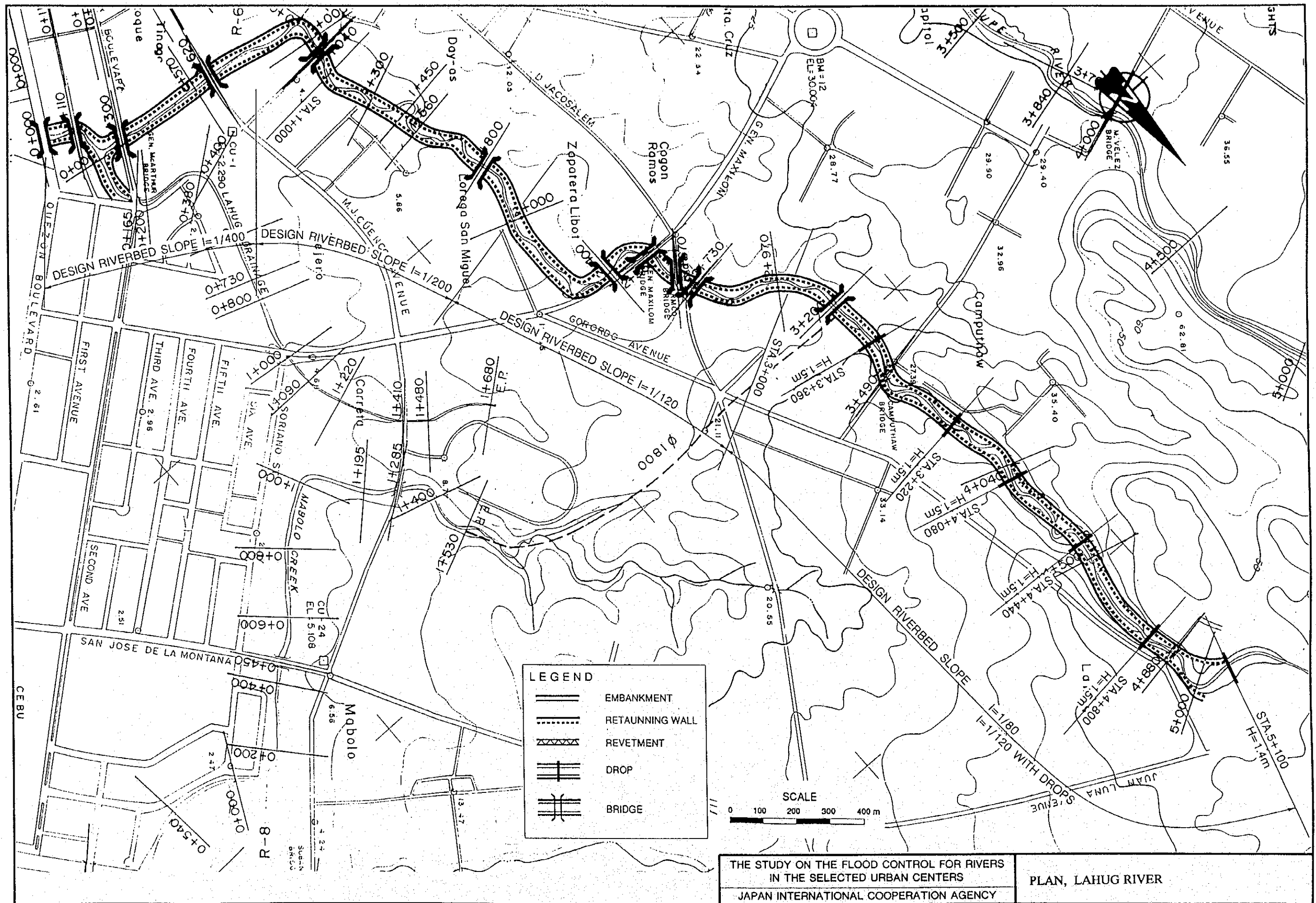


STA. 4+000



THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT : GUADALUPE RIVER	CITY NAME : CEBU CITY
	SHEET CONTENTS :	
	SCALE H=1:1000 V=1:200	DATE JULY 1993

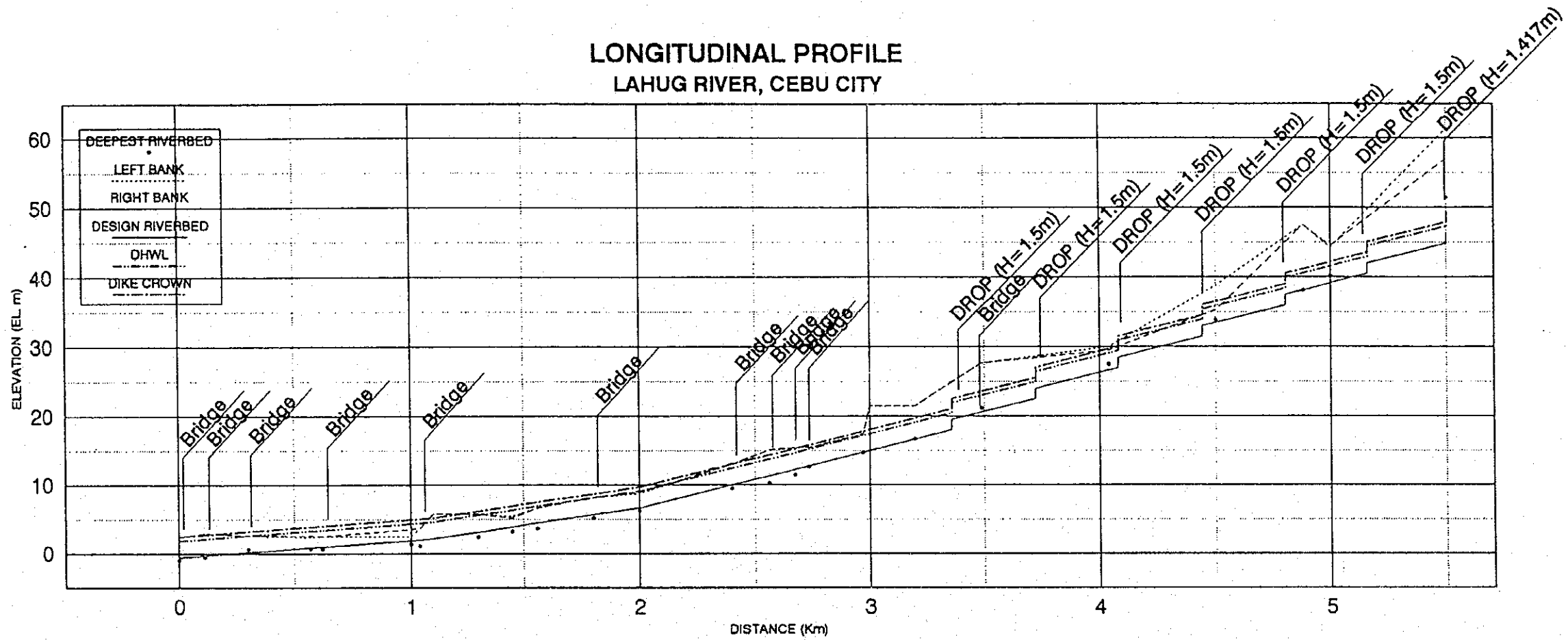
LAHUG RIVER IMPROVEMENT PLAN



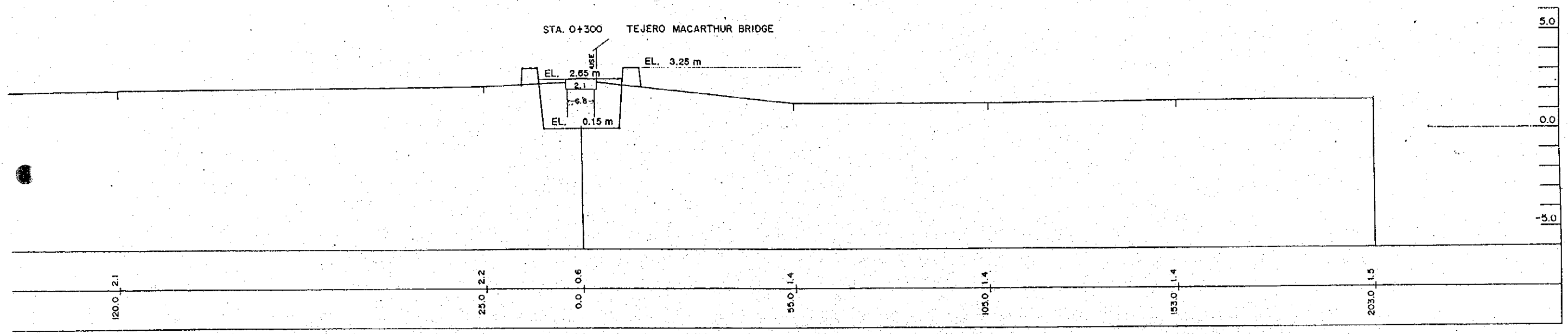
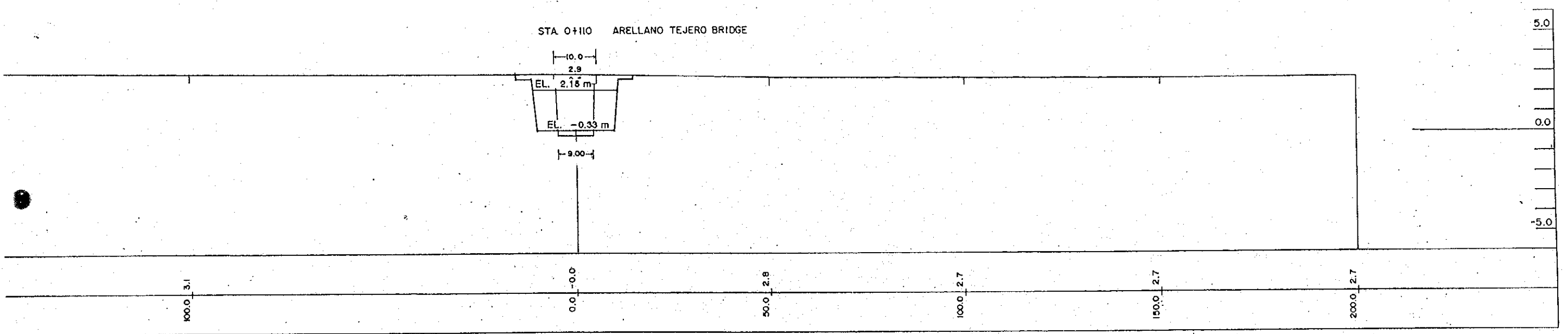
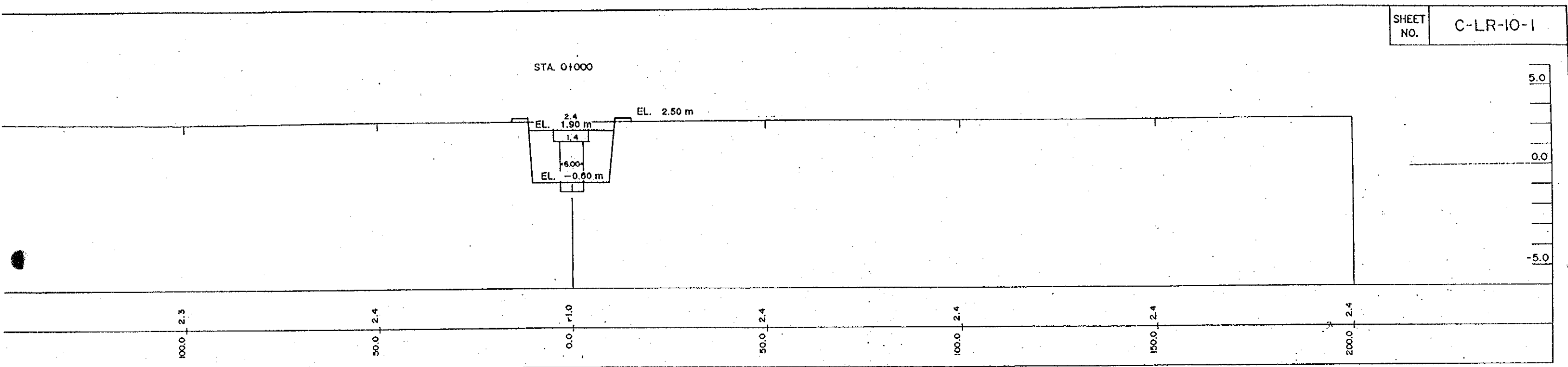
THE STUDY ON THE FLOOD CONTROL FOR RIVERS
 IN THE SELECTED URBAN CENTERS
 JAPAN INTERNATIONAL COOPERATION AGENCY

PLAN, LAHUG RIVER

LONGITUDINAL PROFILE LAHUG RIVER, CEBU CITY

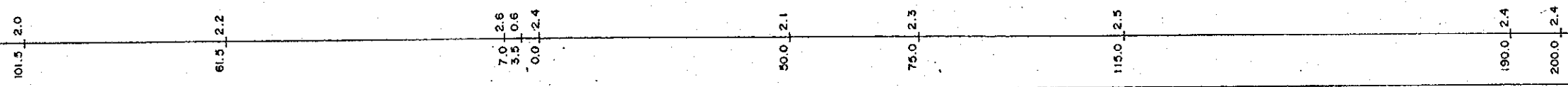
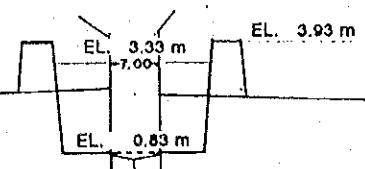


GRADIENT OF RIVERBED	1/400		1/200		1/120		1/180																																
											1/120, with Drops																												
DIKE CROWN	2.500	2.775	3.250	3.925	4.050	5.000	5.100	5.250	6.250	7.000	7.550	8.750	9.750	13.083	14.417	15.333	15.833	17.833	18.083	19.750	21.083	22.583	23.667	25.583	27.083	29.750	30.083	31.583	34.583	36.083	36.583	39.083	40.583	41.250	42.250	43.583	45.083	47.817	49.334
DESIGN HWL	1.900	2.175	2.650	3.325	3.450	4.400	4.500	4.650	5.650	6.400	6.950	8.150	9.150	12.483	13.817	14.733	15.233	17.233	17.483	19.150	20.483	21.983	23.067	24.983	26.483	29.150	29.483	30.983	33.983	35.483	35.983	38.483	39.983	40.650	41.650	42.983	44.483	47.317	48.734
DESIGN RIVERBED	-0.600	-0.325	0.150	0.825	0.950	1.900	2.000	2.150	3.150	3.900	4.450	5.650	6.650	9.983	11.317	12.233	12.733	14.733	14.983	16.650	17.983	19.483	20.567	22.483	23.983	26.650	26.983	28.483	31.483	32.983	33.483	35.983	37.483	38.150	39.150	40.483	41.983	44.817	46.234
DEEPEST RIVERBED	-1.000	-0.590	0.610	0.660	0.660	1.340	1.080	1.180	2.430	3.230	3.674	5.200	6.220	9.500	10.330	11.450	12.640	14.700	14.983	16.700	17.983	19.200	21.200	22.483	23.983	27.500	28.483	29.983	33.840	34.840	36.840	38.150	40.170	41.650	43.150	44.817	47.500	48.734	
LEFT BANK	2.400	2.900	2.600	2.600	2.500	3.500	3.700	5.800	5.800	5.200	6.600	8.200	8.900	13.000	15.100	15.400	15.400	17.300	21.500	21.500	27.700	27.700	27.700	27.700	29.500	30.000	30.000	35.300	35.300	38.800	47.500	44.500	44.500	47.500	44.200	44.500	47.500	44.200	44.500
RIGHT BANK	2.400	2.900	2.600	2.400	2.500	2.500	3.700	5.800	5.800	5.400	6.600	8.200	8.700	13.000	15.100	15.400	15.400	17.400	21.500	21.500	27.700	27.700	27.700	27.700	30.000	30.000	30.000	38.800	38.800	47.500	44.200	44.200	44.200	47.500	44.200	44.200	47.500	44.200	44.200
STATION No.	0.000	0.110	0.300	0.570	0.620	1.000	1.040	1.100	1.300	1.450	1.560	1.800	2.000	2.400	2.560	2.670	2.730	2.970	3.000	3.200	3.360	3.490	3.720	4.040	4.080	4.440	4.500	4.800	4.880	5.000	5.160	5.500							

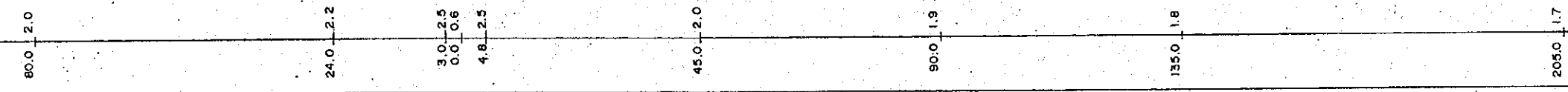
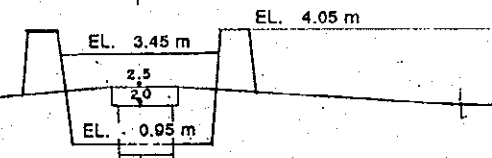


THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS		SUBJECT : LAHUG RIVER	CITY NAME : CEBU CITY
JAPAN INTERNATIONAL COOPERATION AGENCY		SHEET CONTENTS :	
		SCALE H=1:1000 V=1:200	DATE JULY 1993
			SHEET NO. C-LR-10-1

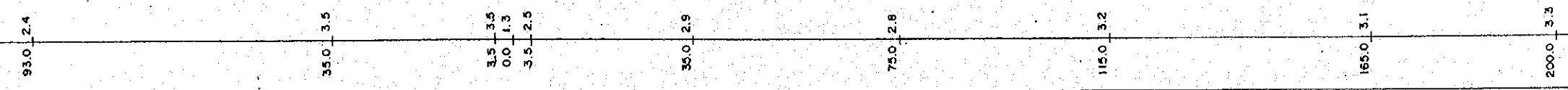
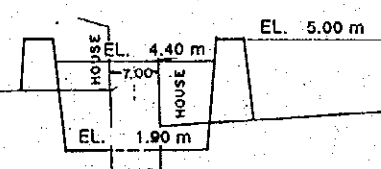
STA. 0+570



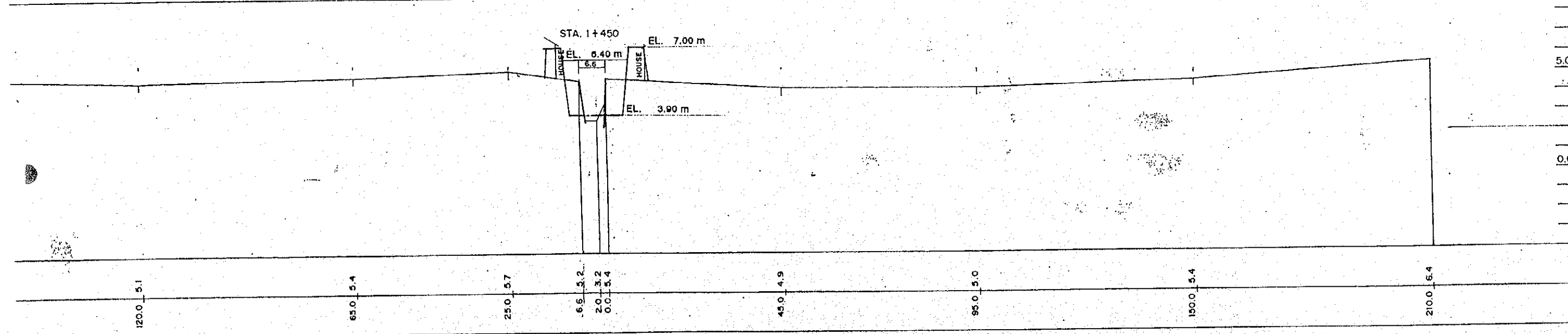
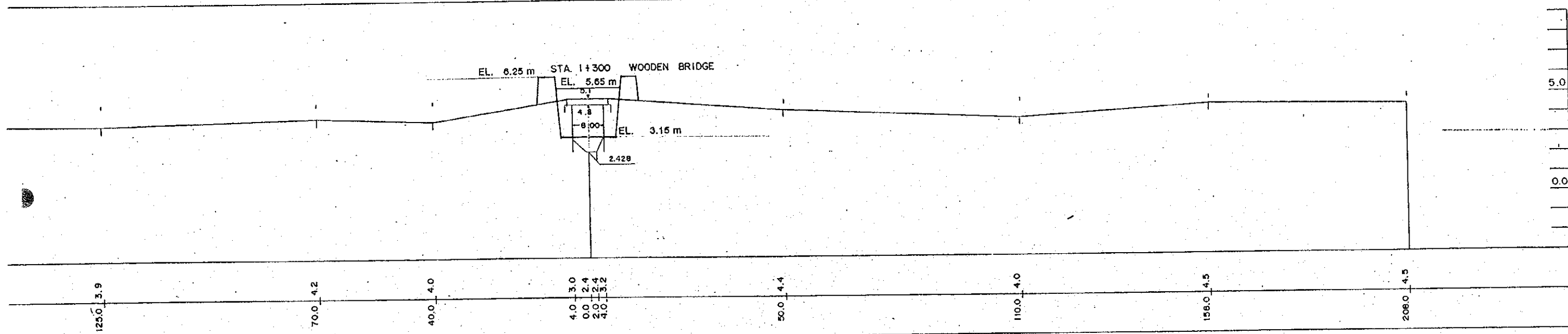
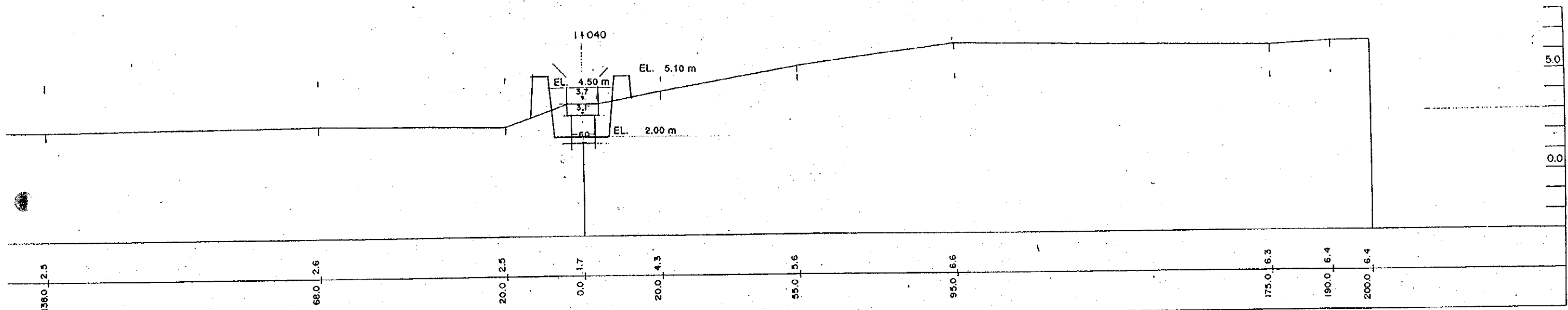
STA. 0+620 TEJERO BRIDGE



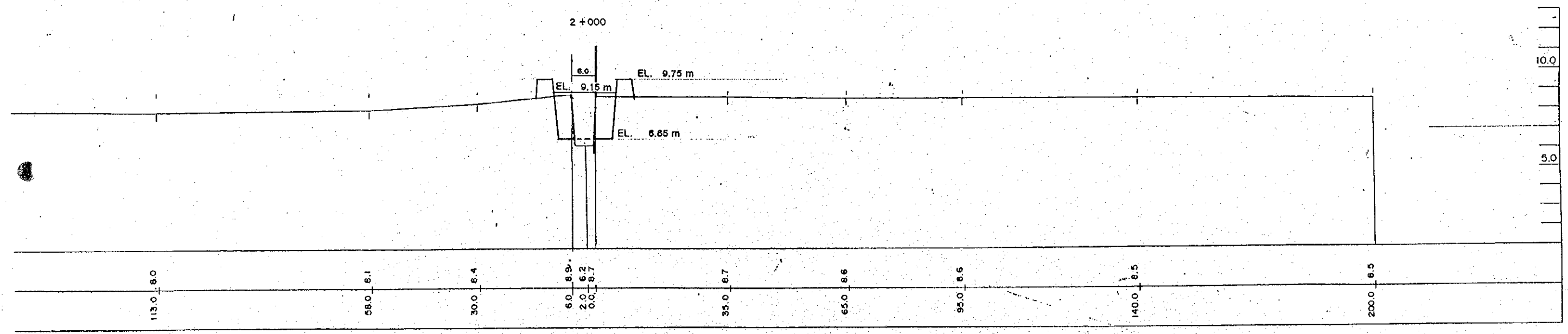
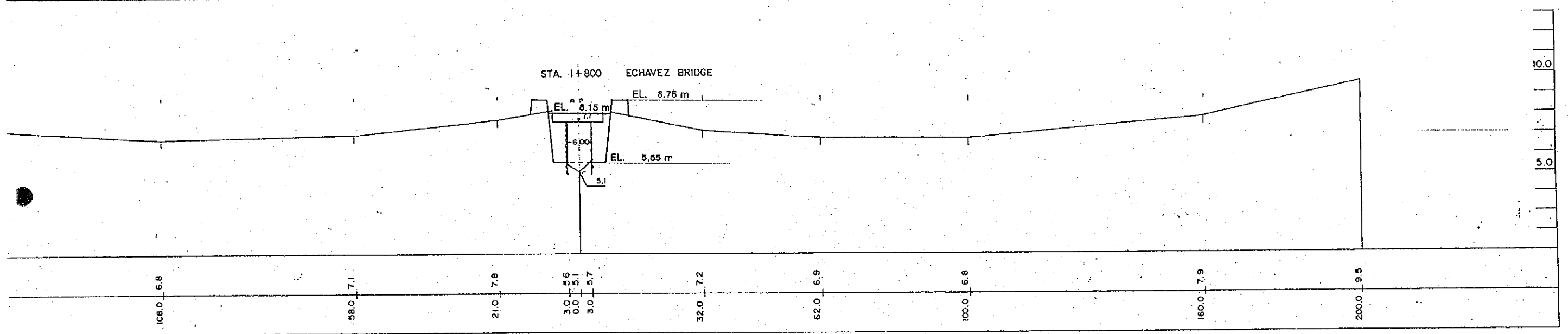
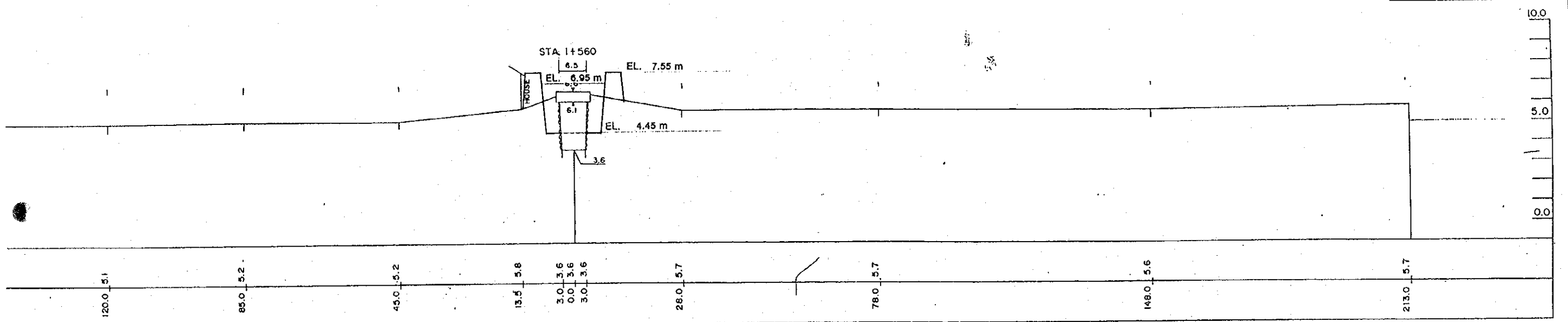
STA. 1+000



<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>SUBJECT : LAHUG RIVER</p>	<p>CITY NAME : CEBU CITY</p>
	<p>SCALE H=1:1000 V=1:200</p>	<p>DATE JULY 1993</p>

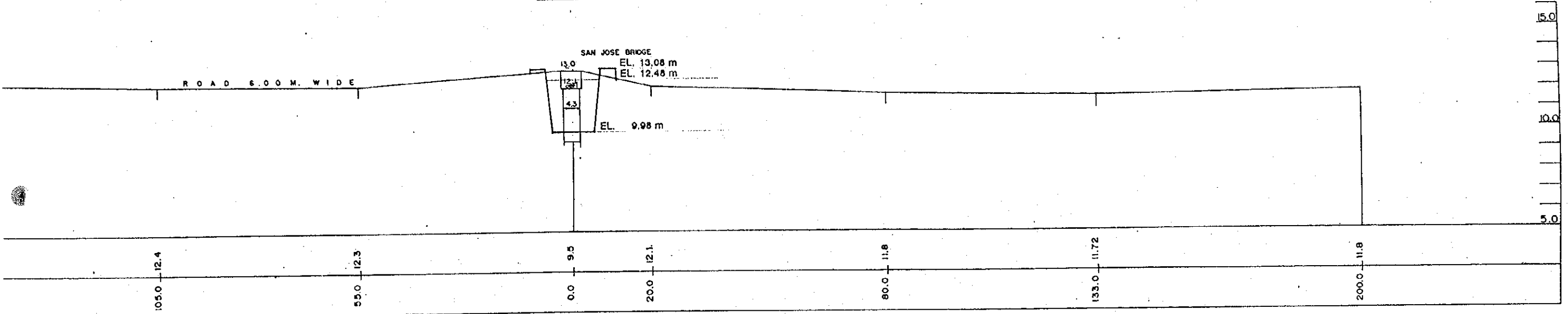


THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS		SUBJECT : LAHUG RIVER	CITY NAME : CEBU CITY
JAPAN INTERNATIONAL COOPERATION AGENCY		SHEET CONTENTS :	
		SCALE H=1:1000 V=1:200	DATE JULY 1993
			SHEET NO. C-LR-10-3

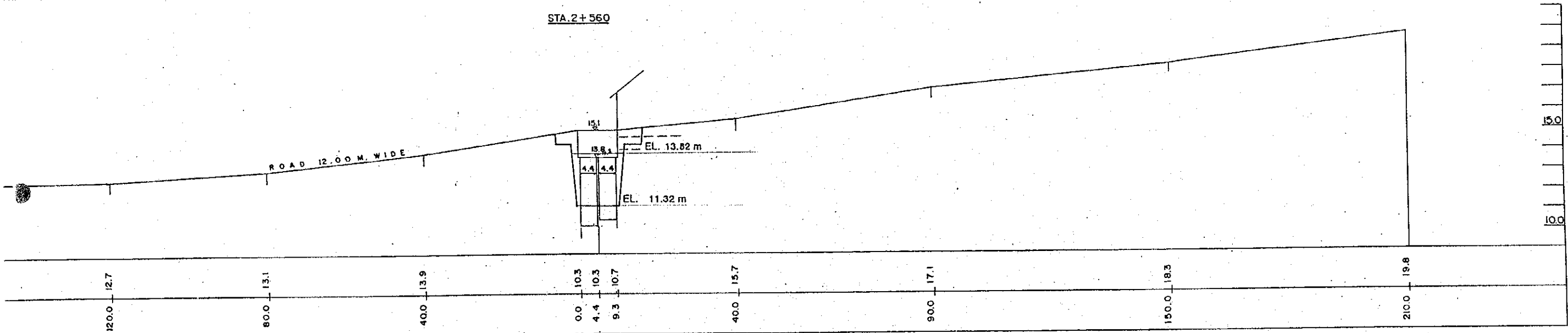


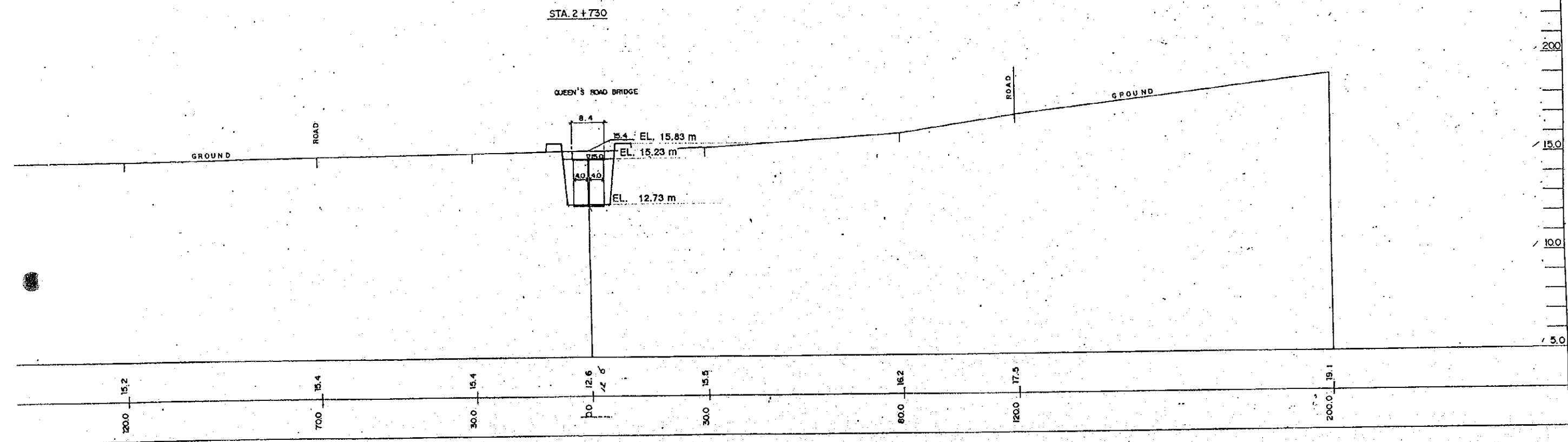
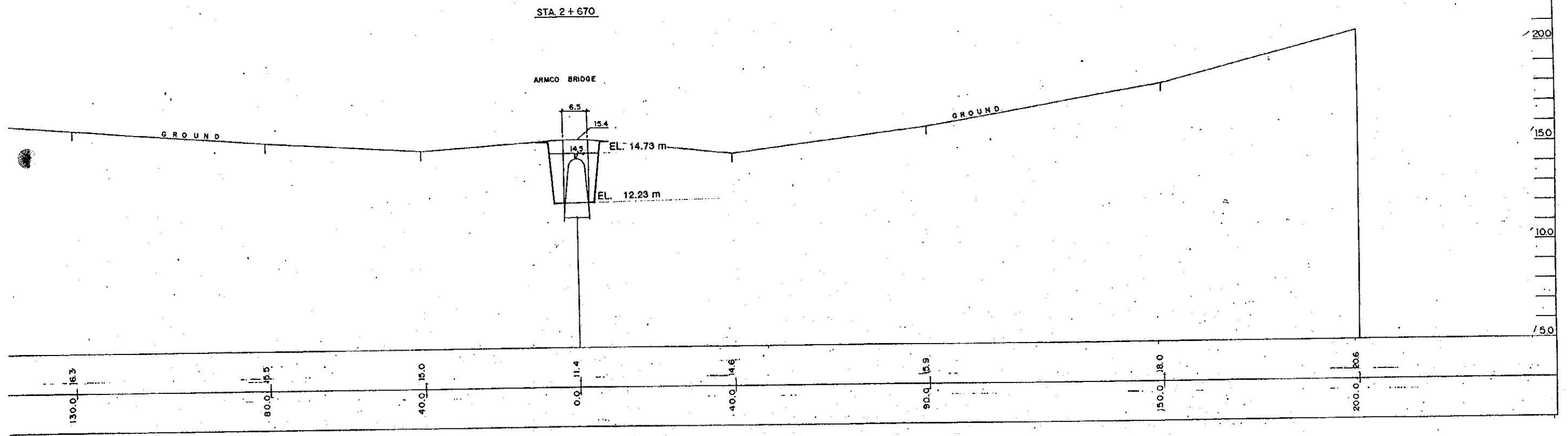
<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>SUBJECT : LAHUG RIVER</p>	<p>CITY NAME : CEBU CITY</p>
	<p>SHEET CONTENTS :</p>	<p>SCALE H=1:1000 V=1:200</p>
<p>DATE JULY 1993</p>	<p>SHEET NO. C-LR-10-4</p>	<p>STA. 1+560, 1+800, 2+000</p>

STA. 2+400

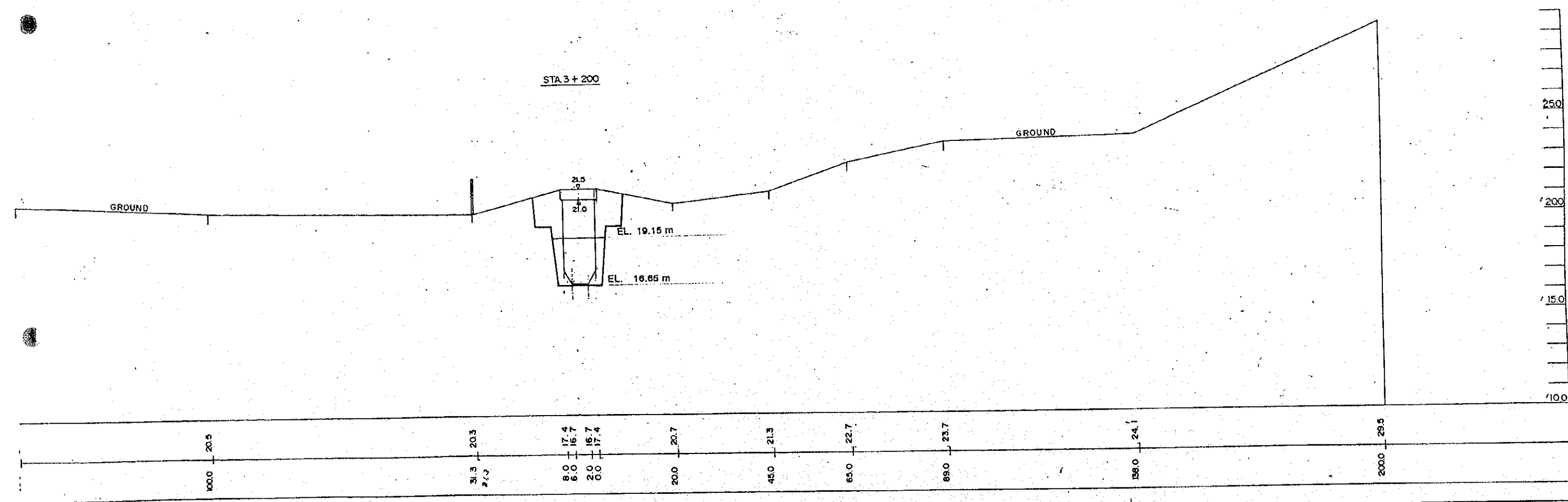
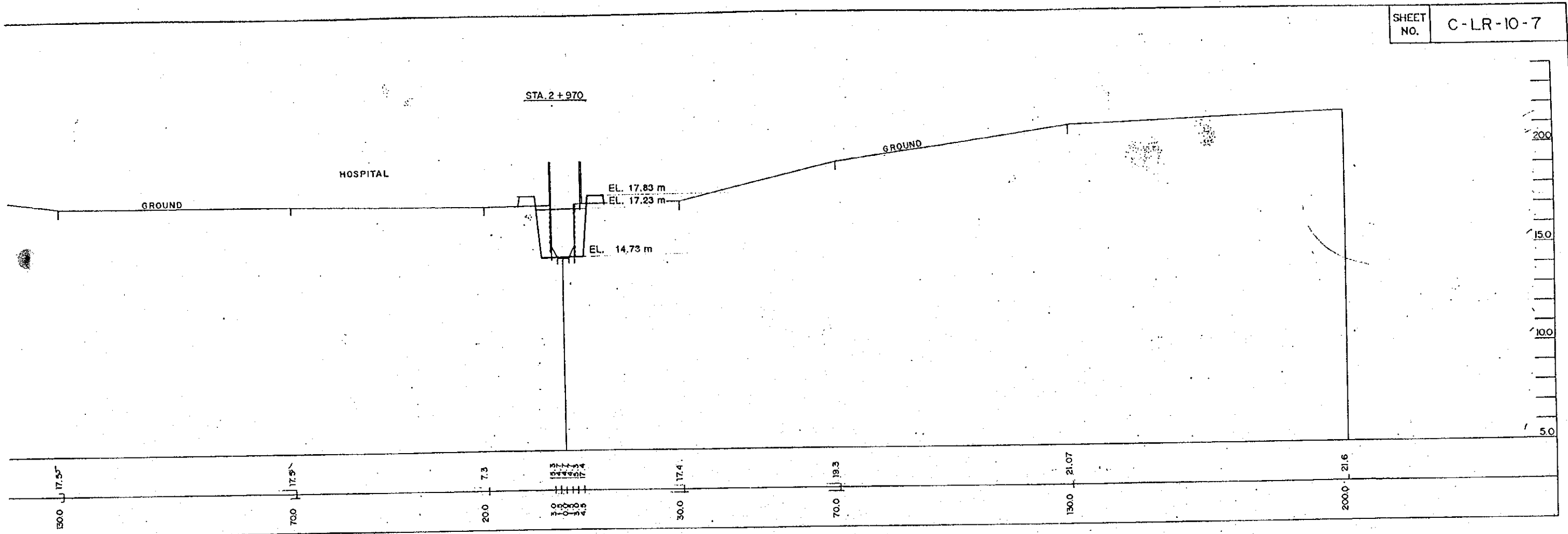


STA. 2+560

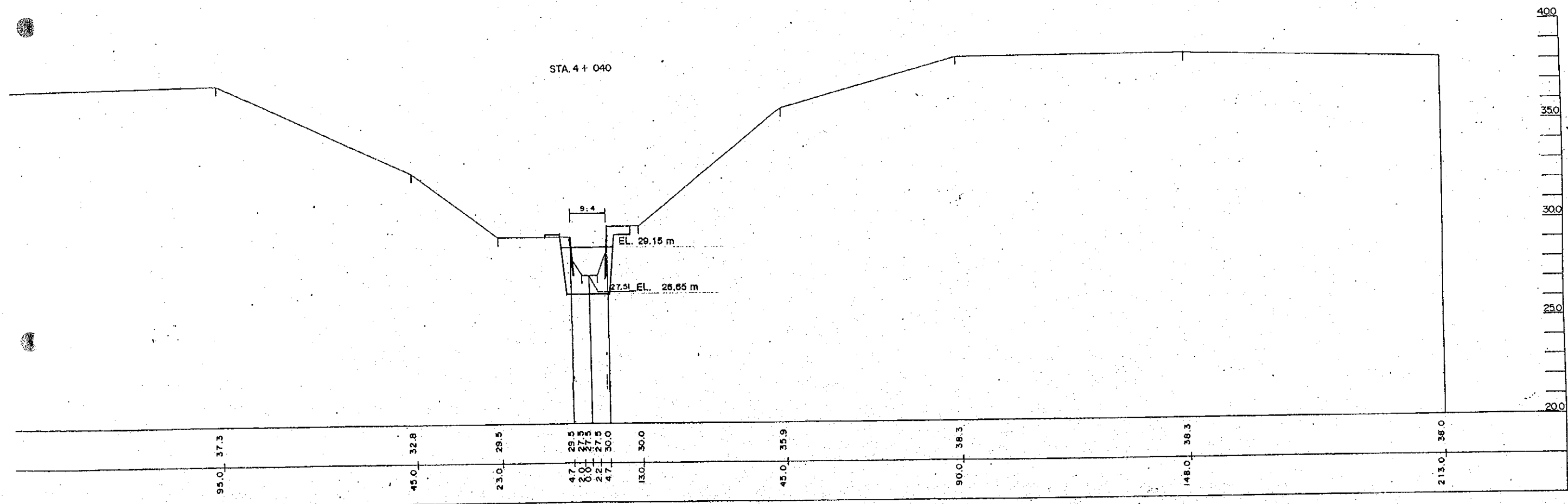
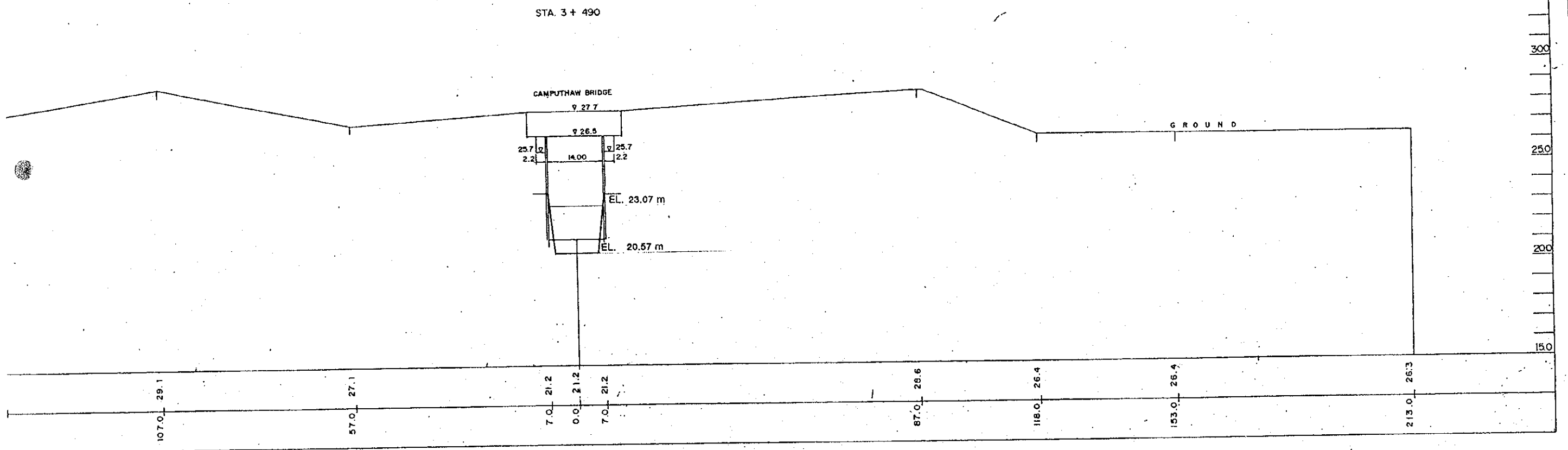




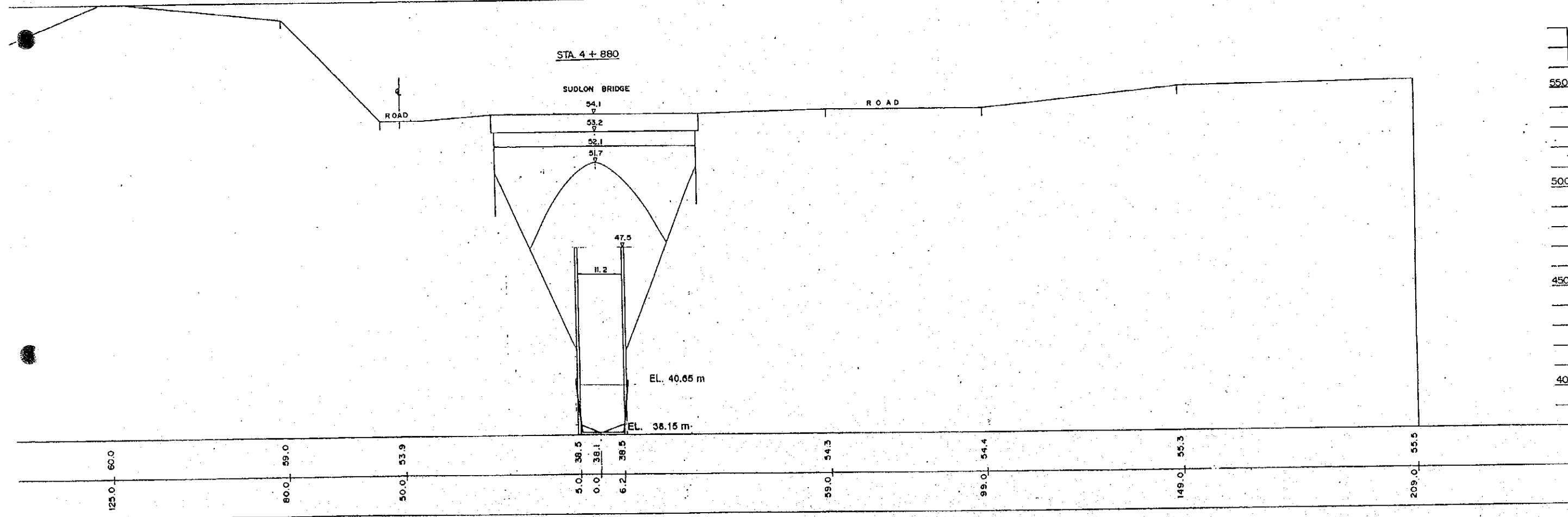
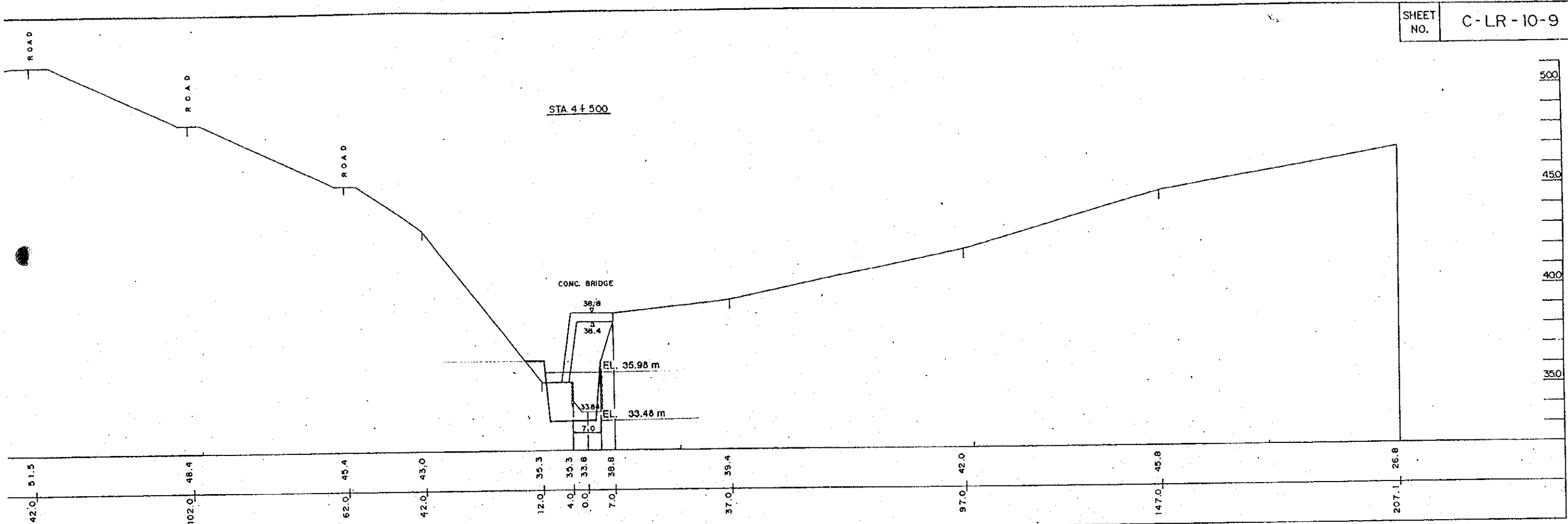
<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>SUBJECT : LAHUG RIVER</p>	<p>CITY NAME : CEBU CITY</p>
	<p>SCALE H=1:1000 V=1:200</p>	<p>DATE JULY 1993</p>
		<p>SHEET NO. C-LR-10-6</p>
<p>STA. 2+670, STA. 2+730</p>		



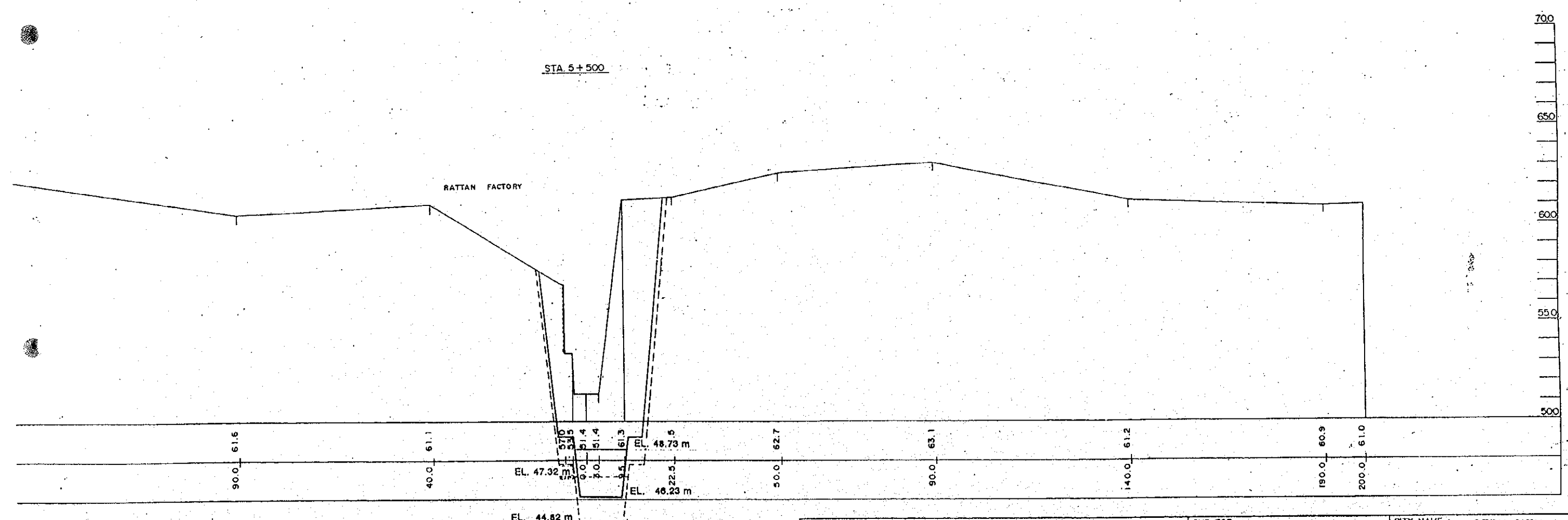
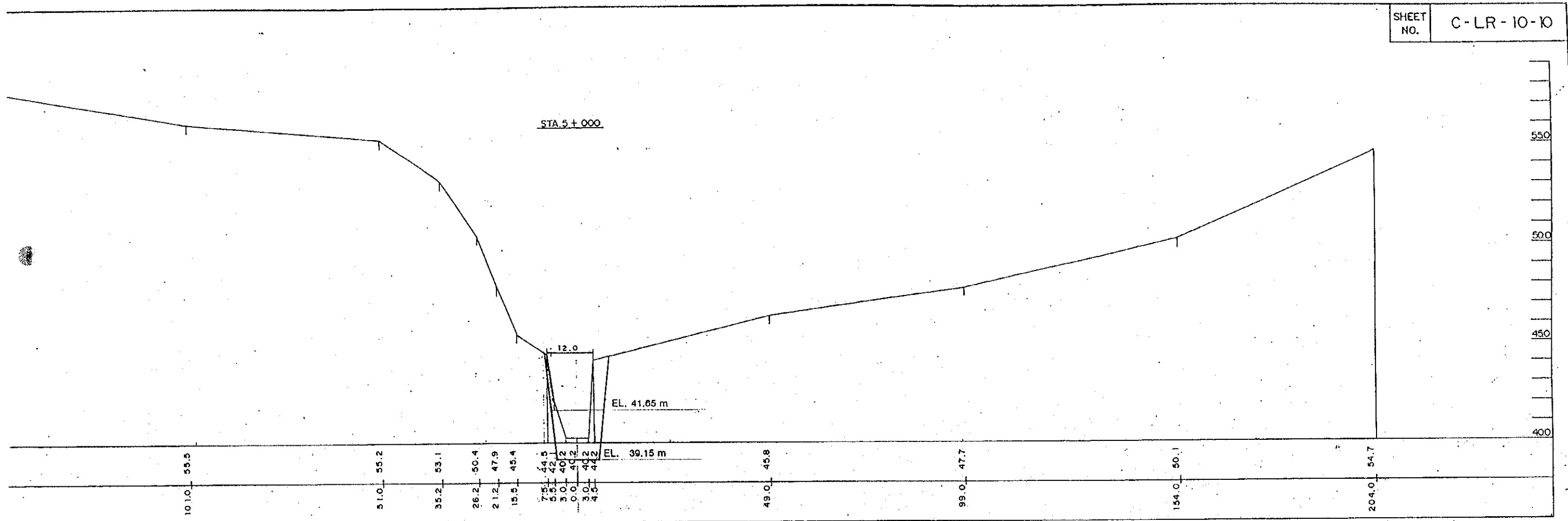
THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT : LAHUG RIVER	CITY NAME : CEBU CITY
	SHEET CONTENTS :	
SCALE H=1:1000 V=1:200	DATE JULY 1993	SHEET NO. C-LR-10-7



<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>SUBJECT : LAHUG RIVER</p>	<p>CITY NAME : CEBU CITY</p>	
	<p>SHEET CONTENTS :</p>	<p>SCALE H=1:1000 V=1:200</p>	<p>DATE JULY 1993</p>



THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS JAPAN INTERNATIONAL COOPERATION AGENCY	SUBJECT : LAHUG RIVER	CITY NAME : CEBU CITY
	SHEET CONTENTS :	
SCALE H=1:1000 V=1:200	DATE JULY 1993	SHEET NO. C-LR-10-9
DB- 132		STA. 4 + 500, STA. 4 + 880



<p>THE STUDY ON THE FLOOD CONTROL FOR RIVERS IN THE SELECTED URBAN CENTERS</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p>	<p>SUBJECT : LAHUG RIVER</p>	<p>CITY NAME : CEBU CITY</p>
	<p>SHEET CONTENTS :</p>	<p>SCALE H=1:1000 V=1:200</p>
	<p>DATE JULY 1993</p>	<p>SHEET NO. C-LR-10-10</p>