

CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DATE		SCALE	DRWG. NO.
DATE	SIGNATURE	PROJECT ENGINEER	PROJECT MANAGER	DATE	SIGNATURE	HORIZONTAL	VERTICAL
11-26-88	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>			1:250	5/10
8-13-88	<i>[Signature]</i>					1:500	
8-14-88	<i>[Signature]</i>						

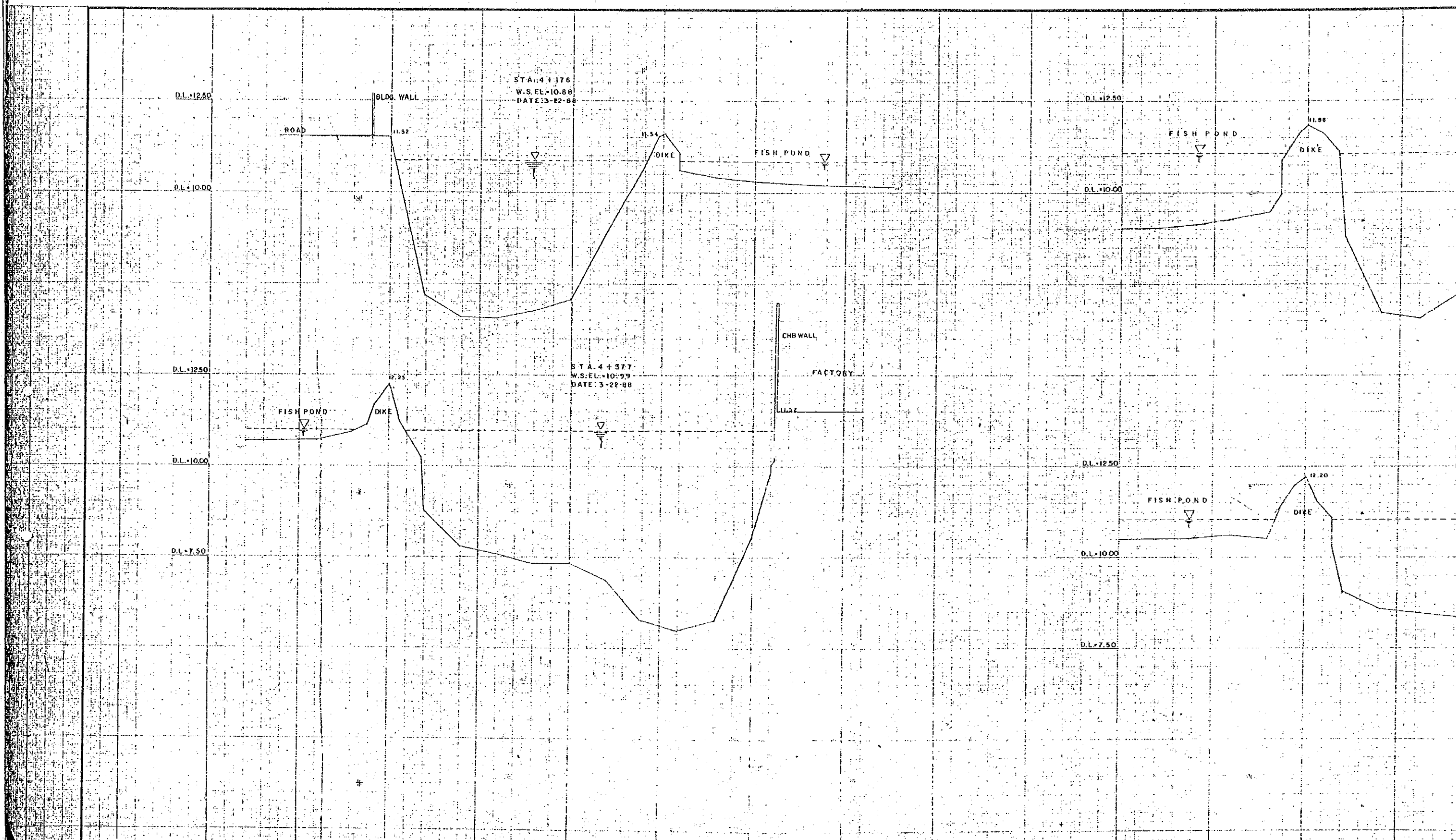



DEPARTMENT OF
PUBLIC WORKS AND HIGHWAYS

PROJECT ENGINEER
PROJECT MANAGER

CROSS SECTION
NAUTAS-MALABON RIVER STA 3+680 - STA 4+276

Must be filed
A-7-8




ACRE SURVEYING & DEVELOPMENT

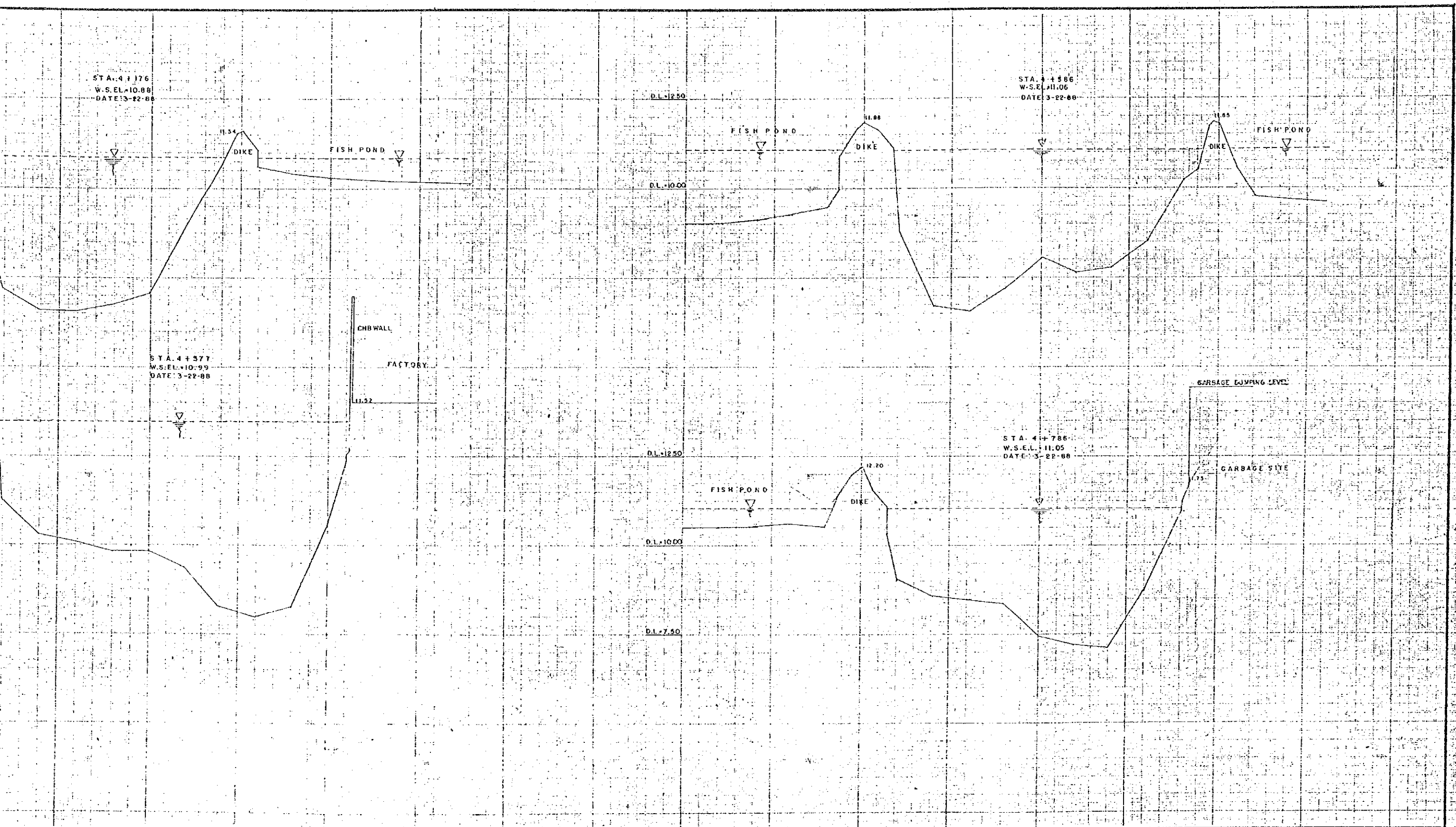
CONSULTANTS		
	DATE	SIGNATURE
SURVEYED BY:	26-10-88	<i>[Signature]</i>
CHECKED BY:	1-12-88	<i>[Signature]</i>
PROJECT MANAGER	8-14-88	<i>[Signature]</i>



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLICWORKS AND HIGHWAYS

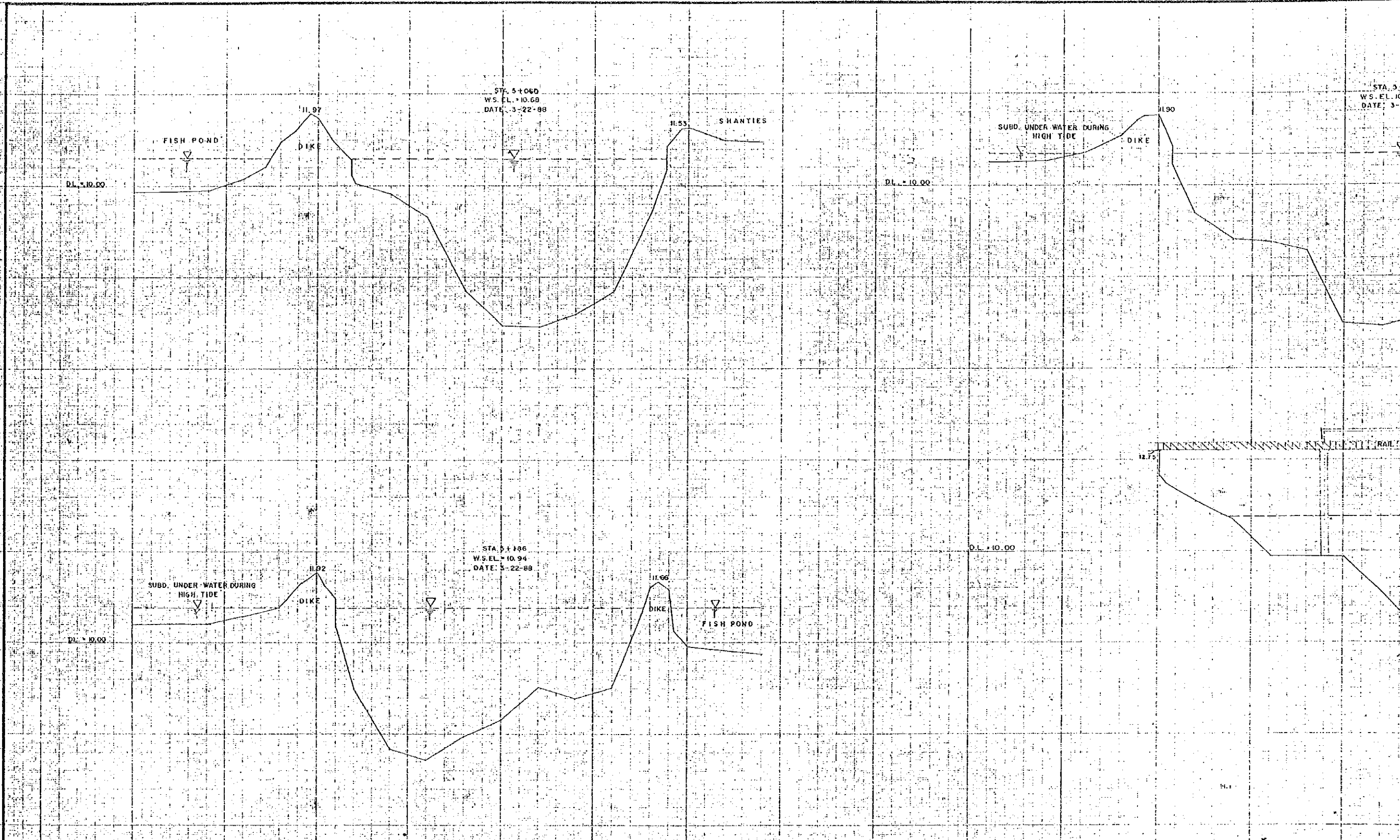
PROJECT ENGINEER
 PROJECT MANAGER
 RONITO ESTABO
 EUGENIO MARIALO

24



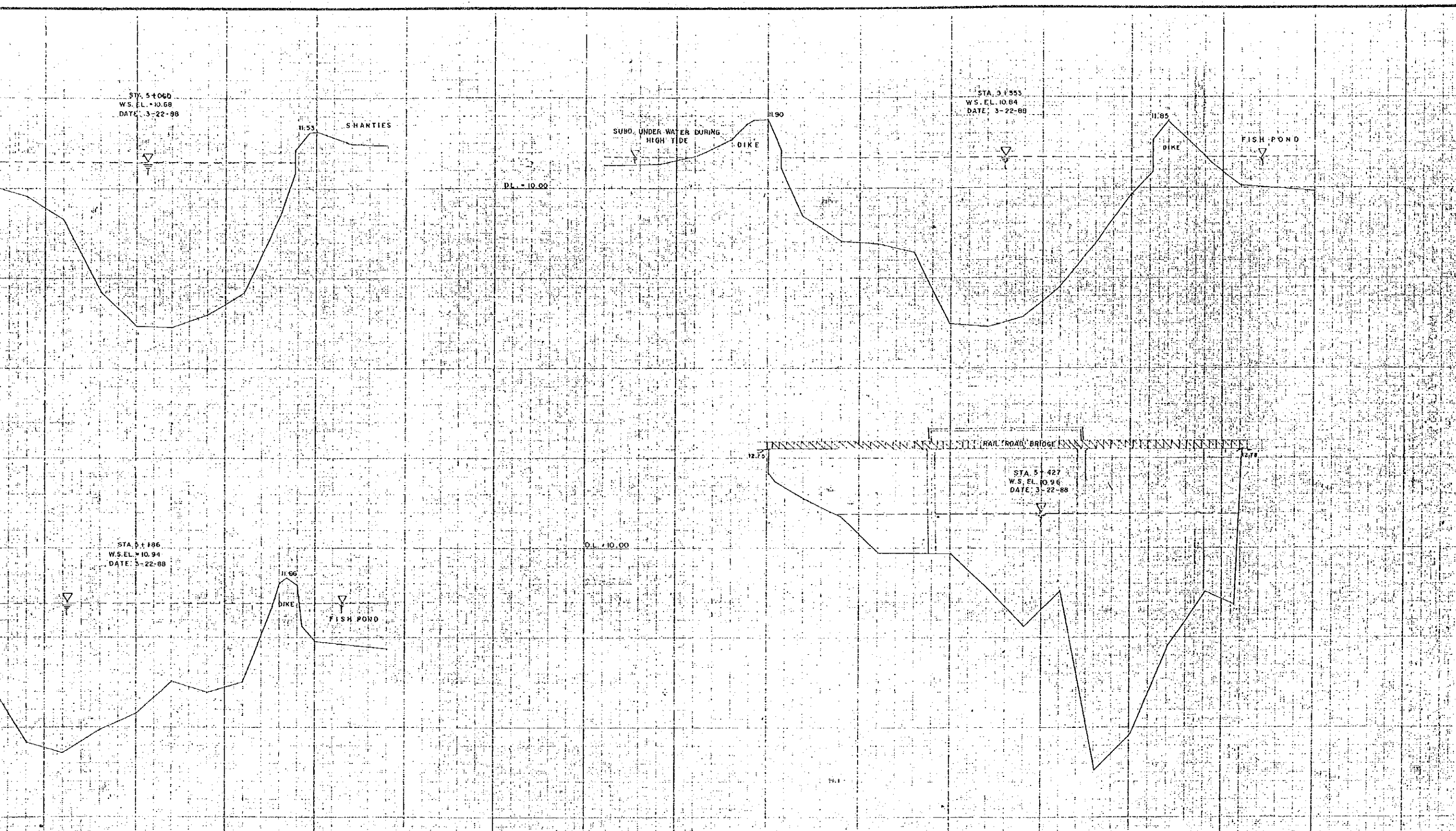
CONSULTANTS		REPUBLIC OF THE PHILIPPINES		PROJECT ENGINEER		PROJECT MANAGER		SCALE		DRWG. NO.	
DATE	SIGNATURE							HORIZONTAL			
31.10.88	<i>[Signature]</i>	DEPARTMENT OF PUBLICWORKS AND HIGHWAYS		MONITO P. ANO		EDUARDO M. BALDO		1:250	CROSS SECTION		6/7
8.13.88	<i>[Signature]</i>							1:50	MALABON RIVER STA 4+376 - STA 4+986		
8.14.88	<i>[Signature]</i>										


MASDP Form
 Form No. 549



	ACRE SURVEYING & DEVELOPMENT		CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	
	SURVEYED BY:	DATE	SIGNATURE	PROJECT ENGINEER	DATE	SIGNATURE	PROJECT MANAGER	DATE
	CHECKED BY:	DATE	SIGNATURE	PROJECT MANAGER	DATE	SIGNATURE	PROJECT MANAGER	DATE

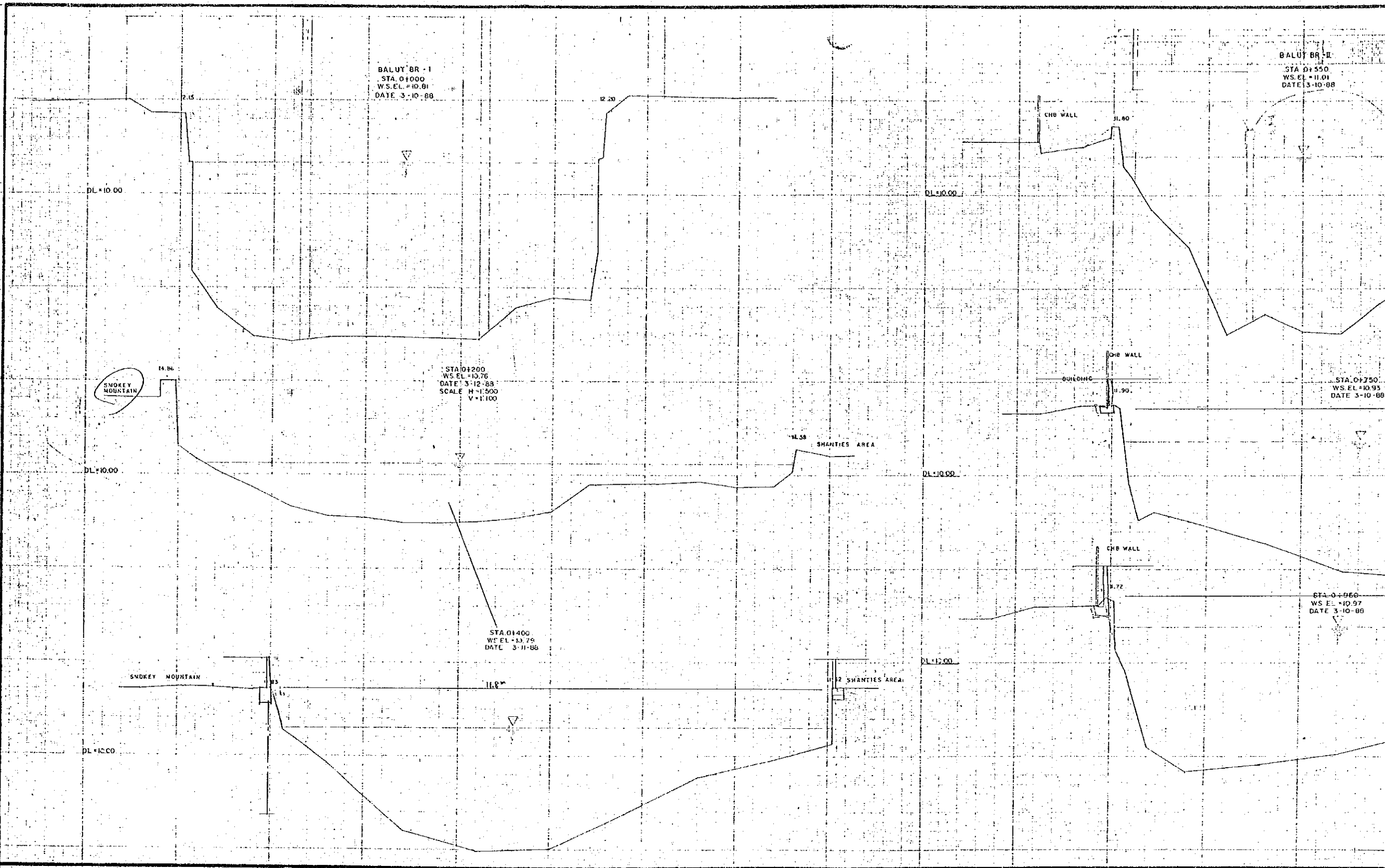
185



CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DATE		SIGNATURE		SCALE		DRWG. NO.	
26-10-88	<i>Charles de la Cruz</i>	DEPARTMENT OF	PROJECT ENGINEER	26-10-88	<i>Charles de la Cruz</i>	 DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS		PROJECT MANAGER	1:250	10/17	
8-11-88	<i>Edgardo</i>		PROJECT MANAGER	8-11-88	<i>Edgardo</i>				1:500		
8-11-88	<i>Edgardo</i>										

Masterpiece
Printed in Japan

Masterpiece
Printed in Japan



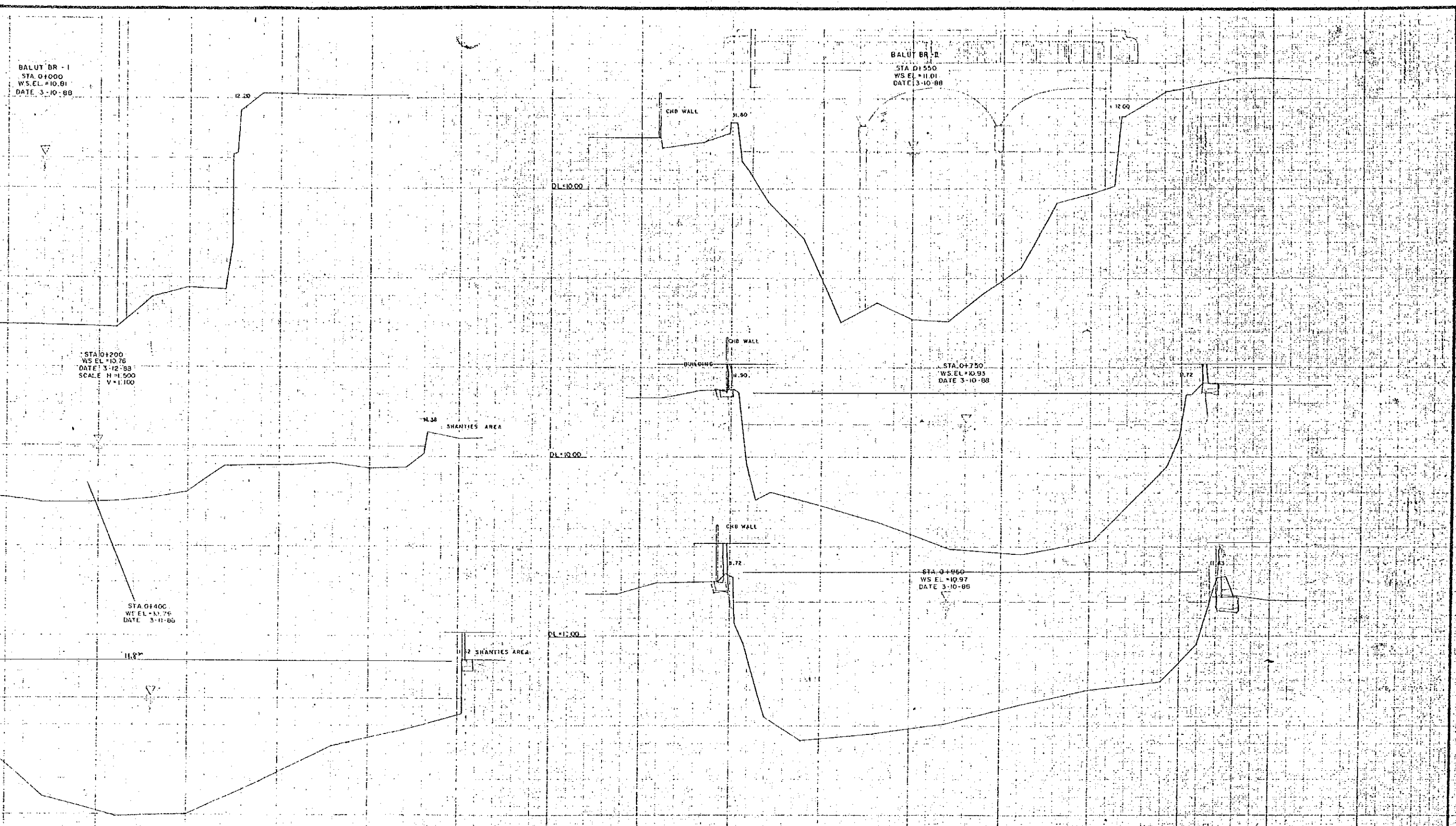
ACRE SURVEYING & DEVELOPMENT

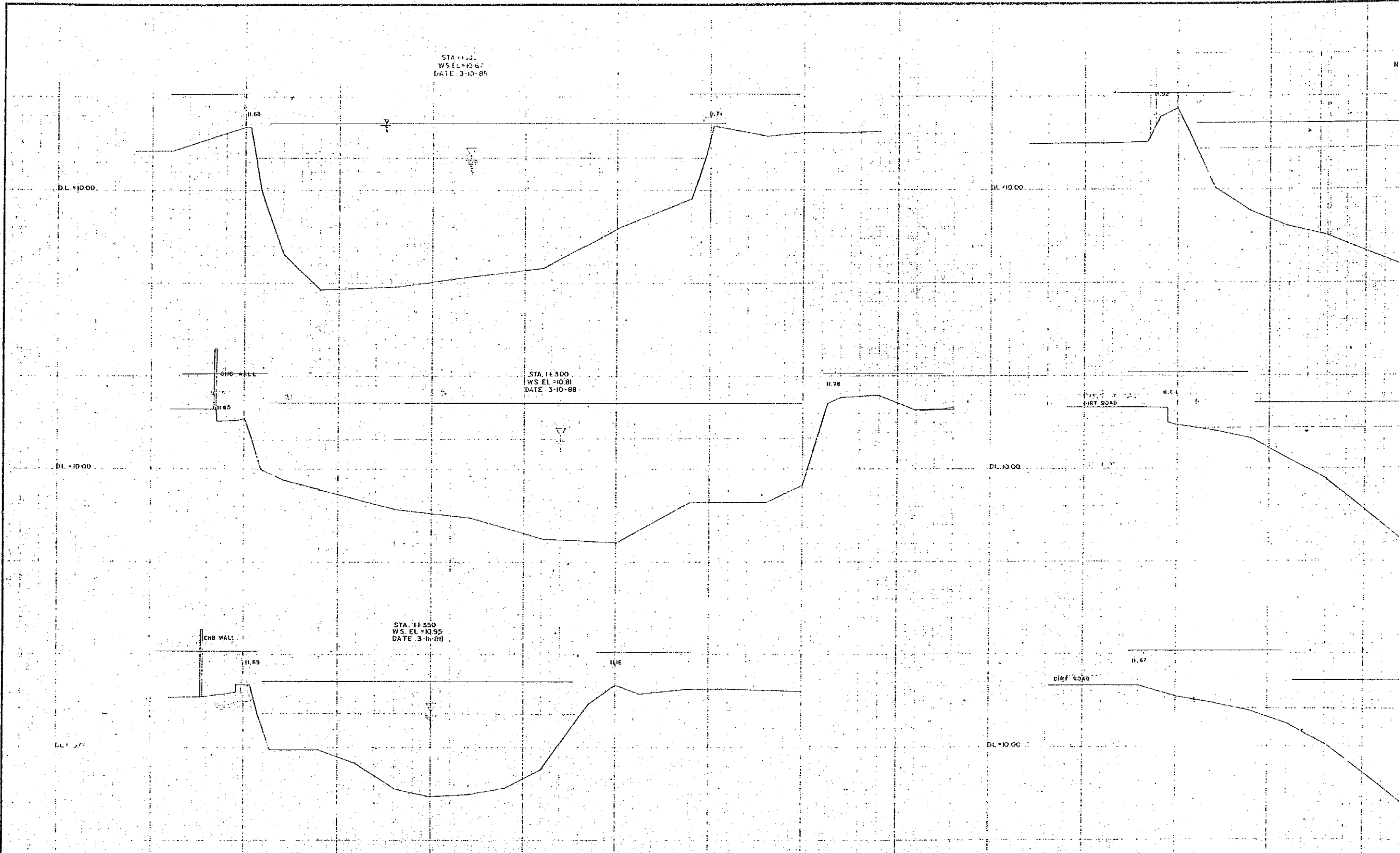
CONSULTANTS	
DATE	SIGNATURE
21-10-88	<i>[Signature]</i>
2-12-88	<i>[Signature]</i>
8-11-88	<i>[Signature]</i>

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

DATE	SIGNATURE	USE
	<i>[Signature]</i>	PROJECT ENGINEER
	<i>[Signature]</i>	PROJECT MANAGER

8x



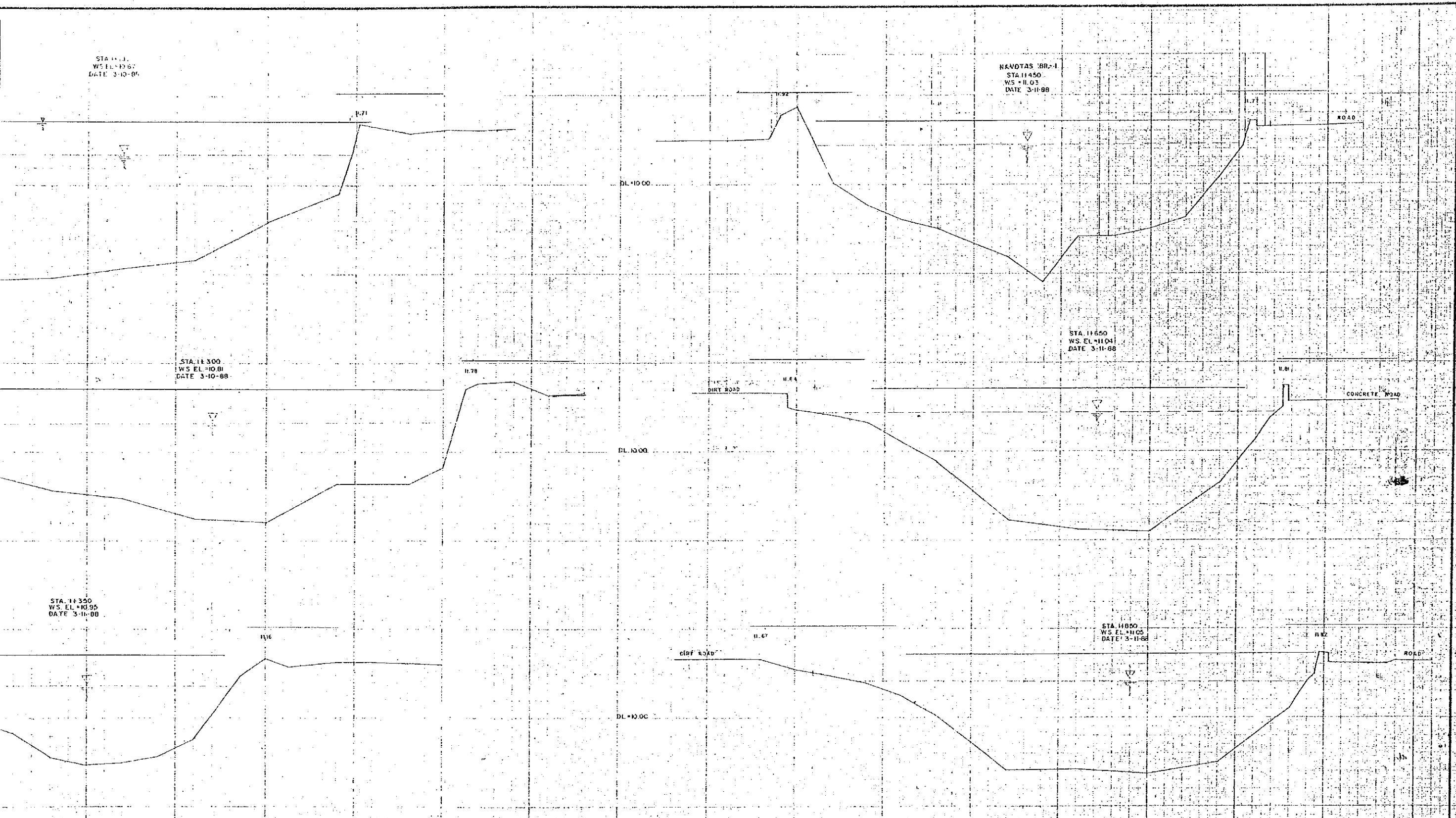


ACRE SURVEYING & DEVELOPMENT

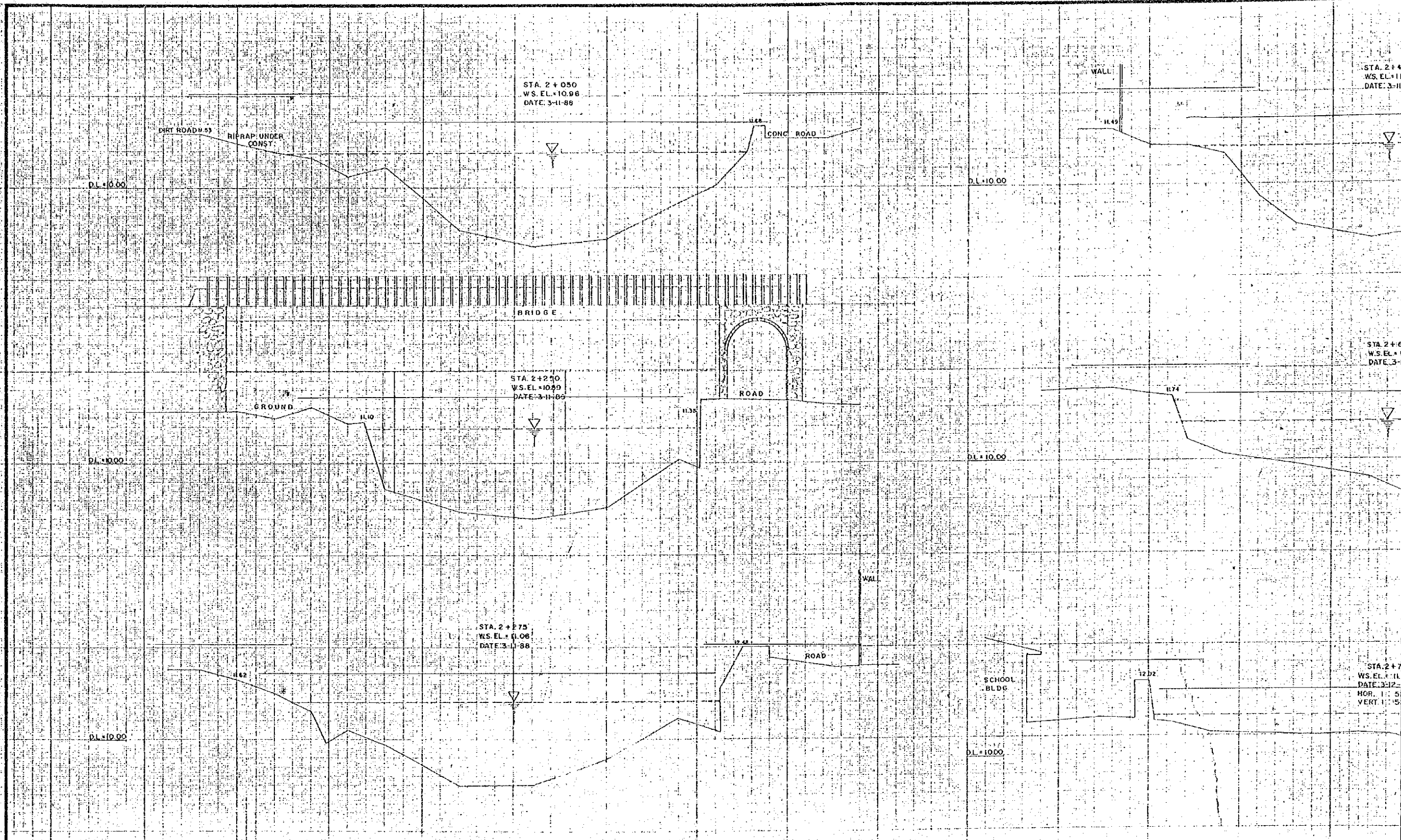
CONSULTANTS		DATE	SIGNATURE
SURVEYED BY	J. H. G. F.	8-10-88	<i>Charles G. F.</i>
CHECKED BY	J. H. G. F.	8-13-88	<i>John H. G. F.</i>
PROJECT MANAGER	J. H. G. F.	8-14-88	<i>John H. G. F.</i>

REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

PROJECT ENGINEER	<i>WONITO P. FAND</i>
PROJECT MANAGER	<i>EUGENE M. MANALO</i>



CONSULTANTS		REPUBLIC OF THE PHILIPPINES		DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS		CROSS-SECTION		SCALE	DRWG. NO.
BY	DATE	SIGNATURE	PROJECT ENGINEER	PROJECT MANAGER	DA	DATE	HORIZONTAL	VERTICAL	
BY	8-13-88	<i>[Signature]</i>	NONITO F. FANLO	EUGENIO MANALO			1:250	1:50	2/10
BY	8-14-88	<i>[Signature]</i>							
							NAVOTAS RIVER STA 11100 - STA 11850		



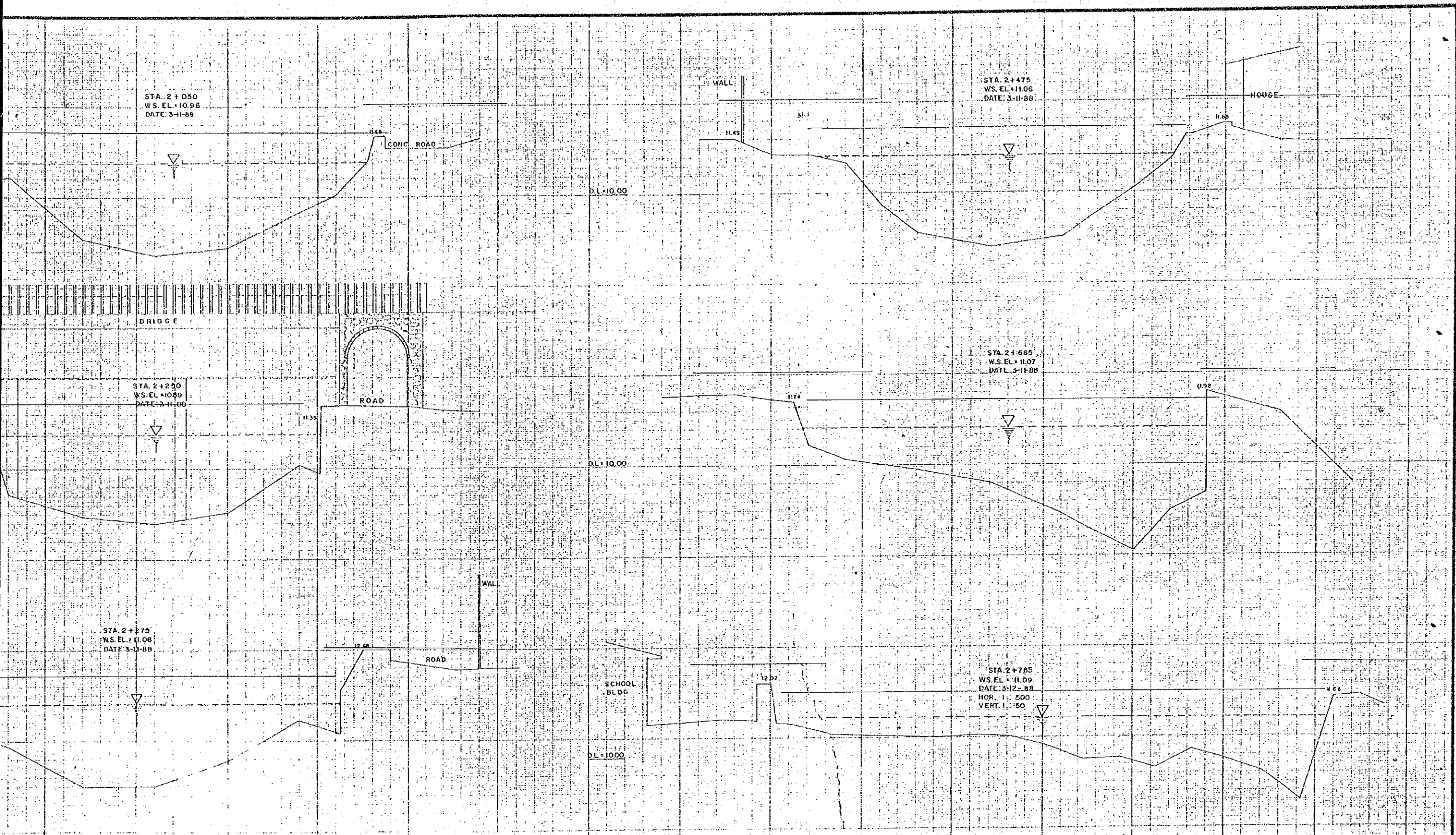
ACRE SURVEYING & DEVELOPMENT

CONTRACT NO. _____
 SURVEYED BY: *J. L. M. Jr.* DATE: *Jul. 14/88* SIGNATURE: *[Signature]*
 CHECKED BY: *[Signature]* DATE: *8-1-88*
 PROJECT MANAGER: *[Signature]* DATE: *8-14-88*

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

PROJECT ENGINEER: *[Signature]*
 PROJECT MANAGER: *[Signature]*

8/8



REPUBLIC OF THE PHILIPPINES

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

PROJECT ENGINEER
NONITO S. FAYO

PROJECT MANAGER
EUGENIO S. SALD

DATE: 8-14-88

SIGNATURE: *[Handwritten Signature]*

CROSS SECTION

NAVOTAS RIVER STA. 2+050—STA. 2+785

SCALE	DRWG. NO.
HORIZONTAL 1:250	3/4
VERTICAL 1:50	

Master
Print

STA 2+865
WS. EL. 10.63
DATE: 3/17/88

PL=1000

2.00

11.75



ACRE SURVEYING
& DEVELOPMENT

CONSULTANTS	
DATE	SIGNATURE
SURVEYED BY: 3/17/88	<i>[Signature]</i>
CHECKED BY: 8/1/88	<i>[Signature]</i>
PROJECT MANAGER: 8/14/88	<i>[Signature]</i>

Musterly
1/1/88



DEPARTMENT OF
PUBLIC WORKS & HIGHWAYS

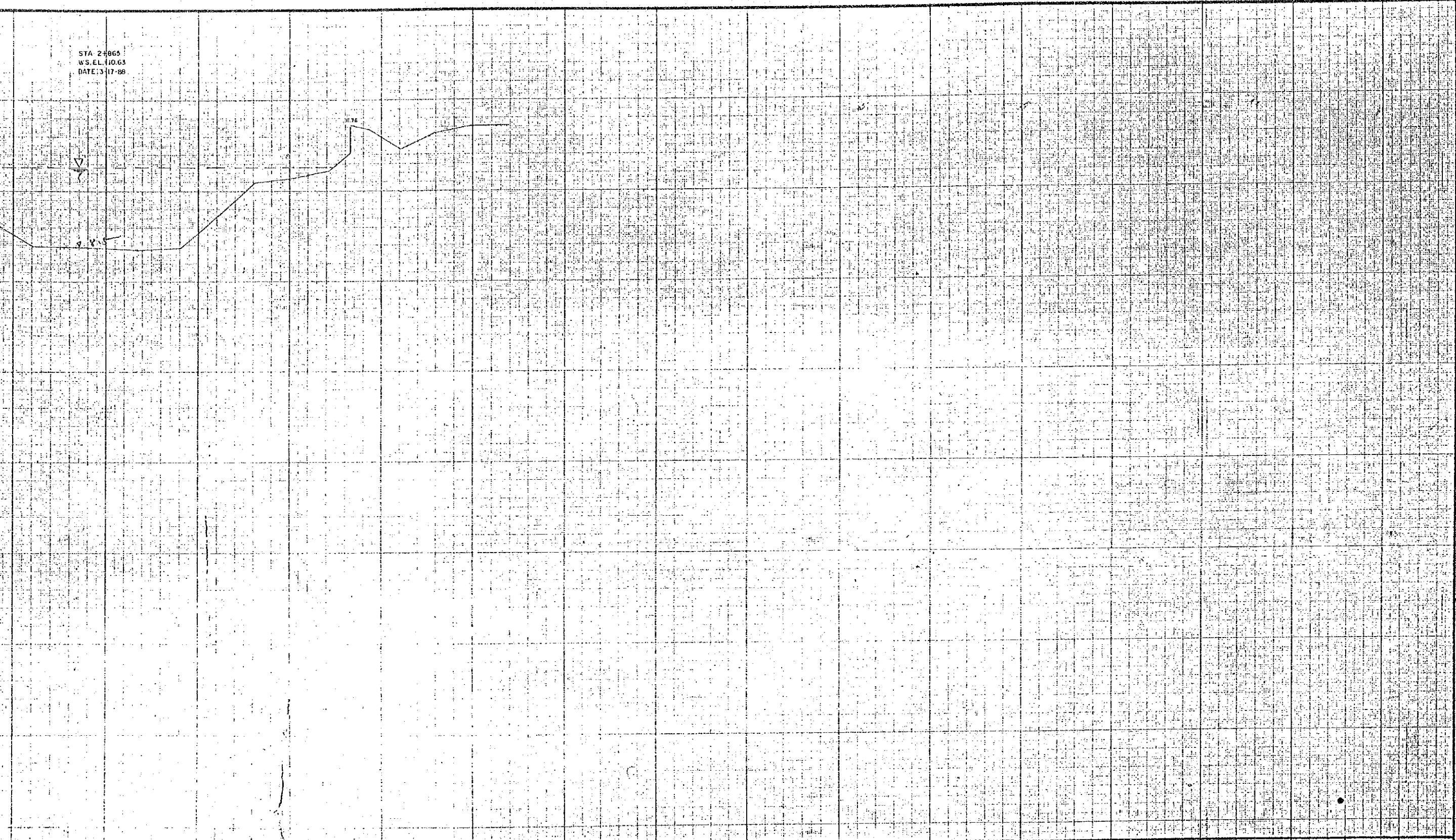
REPUBLIC OF THE PHILIPPINES

[Signature]
NONATO FAWO
EUGENIO GARCIA

Made in Manila
Printed in Japan

89

STA 2+065
W.S. EL. 110.63
DATE: 3-17-88



REPUBLIC OF THE PHILIPPINES		DEPARTMENT OF PUBLIC WORKS & HIGHWAYS		NONITO P. FARO		EUGENIO B. ARRIOLA		CROSS SECTION		SCALE		DRWG. NO.	
DATE	SIGNATURE	DESIGNED BY	CHECKED BY	PROJECT MANAGER						HORIZONTAL			
11/88	<i>[Signature]</i>									VERTICAL			4-74



Masterpiece
Printed in Japan

Masterpiece
Printed in Japan

A-8 BULI-BAHO-MAHABA RIVER

INDEX MAP (1 SHEET)

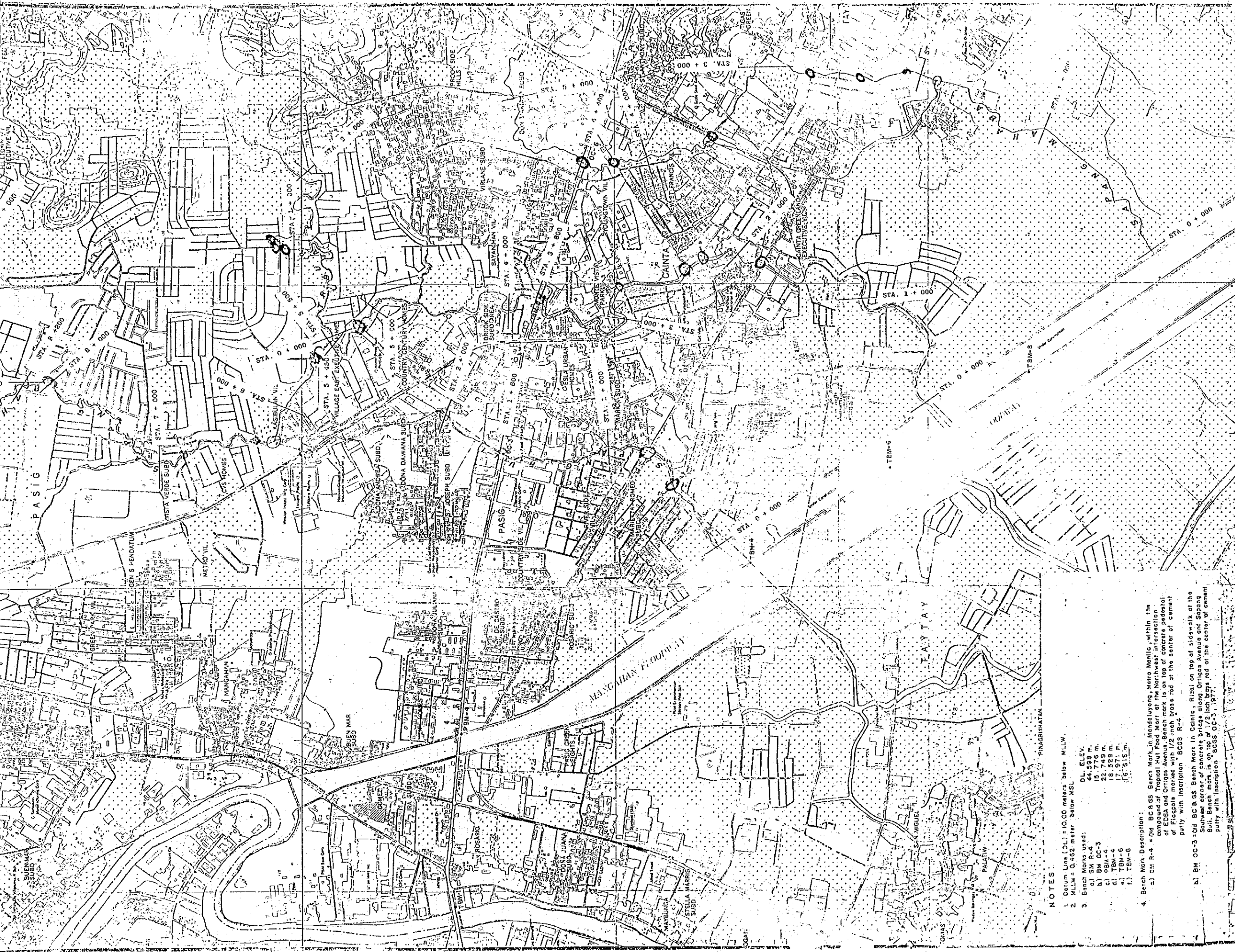
LONGITUDINAL PROFILE (6 SHEET)

CROSS SECTION (11 SHEET)



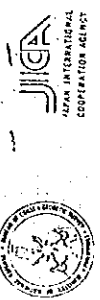
LA
ABAHAN
BAHO BANI

PASIG



- NOTES:**
1. Datum Line (DL) = 10.00 meters below MLLW.
 2. MLLW = 0.462 meter below MSL
 3. Bench Marks used:
 - a) GM R-4 DL ELEV. 44.998 m.
 - b) BM OC-3 25.749 m.
 - c) PBM-4 18.428 m.
 - d) TBM-4 17.971 m.
 - e) TBM-5 16.516 m.
 - f) TBM-6
 4. Bench Mark Description:
 - a) GM R-4 = old BC & GS Bench Mark in Manduluyong, Metro Manila, within the compound of Tropical Hut Food Mart at the Northwest intersection of EDSA and Ortigas Avenue. Bench mark is on top of concrete pedestal of Flispolo marked with 1/2 inch brass rod at the center of cement putty with inscription "BCGS R-4".
 - b) BM OC-3 old BC & GS Bench Mark in Cainta, Rizal on top of sidewalk at the Southwest corner of concrete bridge along Ortigas Avenue and Sapang Buli. Bench mark is on top of 1/2 inch brass rod at the center of cement putty with inscription "BCGS OC-3, 1977".

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
 UTM ZONE 51 CLARKE SPHEROID 1855 LUCUM DATUM
 VERTICAL DATUM: MSL FOR HEIGHTS MLW FOR DEPTHS
 CONTOUR INTERVAL: 1 METERS



Scale: 1:10,000

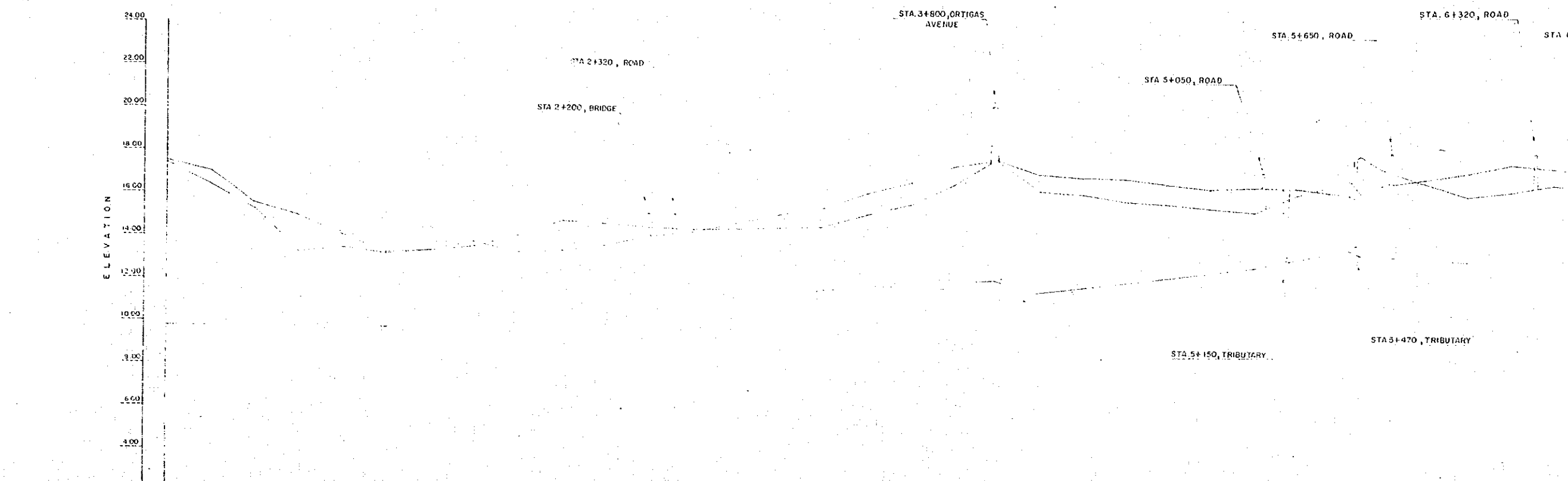
MANILA
 BAYANONG MANILA
 1971

	ACRE SURVEYING & DEVELOPMENT		SURVEYED BY: CHECKED BY: PROJECT MANAGER:	CONSULTANT'S SIGNATURE:	DATE:	SIGNATURE:
	INDEX MAP					

ELEVATION

24.00
22.00
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00

DATUM LINE EL. +2.00



STATION NO.	EXISTING ELEVATION				PROPOSED ELEVATION			
	RIVER BED	LEFT LEVEE	RIGHT LEVEE	RIVER BED	RIVER BED	HIGH WATER LEVEL	BANK LEVEL	RIVER BED GRADIENT
0+000	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
0+200	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
0+400	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
0+600	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
0+800	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
1+000	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
1+200	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
1+400	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
1+600	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
1+800	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
2+000	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
2+200	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
2+400	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
2+600	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
2+800	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
3+000	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
3+200	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
3+400	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
3+600	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
3+800	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
4+000	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
4+200	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
4+400	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
4+600	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
4+800	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
5+000	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
5+200	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
5+400	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
5+600	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
5+800	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
6+000	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
6+200	5.74	17.63	17.43	5.74	17.43	17.43	17.43	
6+400	5.74	17.63	17.43	5.74	17.43	17.43	17.43	

ACRE SURVEYING & DEV.

CONSULTANTS

SURVEYED BY:	DATE:	SIGNATURE:
CHECKED BY:		
PROJECT MANAGER:		

J I C A
JAPAN INTERNATIONAL
COOPERATION AGENCY

PROJECT EXPERT:	DATE:	SIGNATURE:
PROJECT LEADER:		