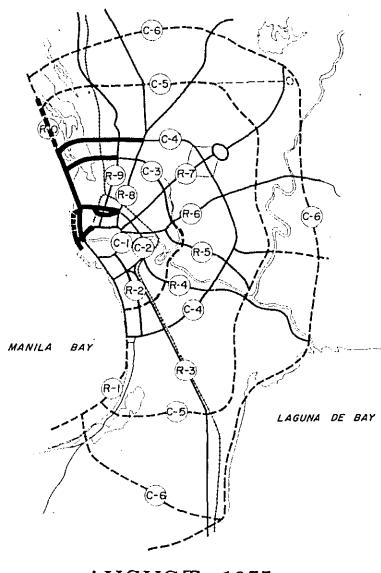
REPUBLIC OF THE PHILIPPINES METROPOLITAN MANILA TRANSPORT RADIAL ROAD R-10 FEASIBILITY STUDY

DRAWINGS



AUGUST, 1975

JAPAN INTERNATIONAL COOPERATION AGENCY



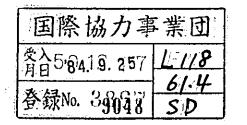
REPUBLIC OF THE PHILIPPINES METROPOLITAN MANILA TRANSPORT RADIAL ROAD R-10 FEASIBILITY STUDY DRAWINGS

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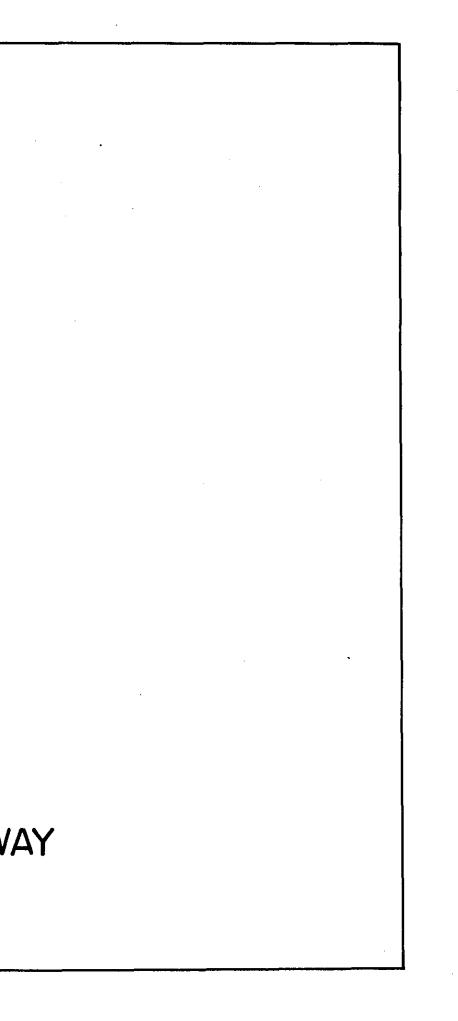


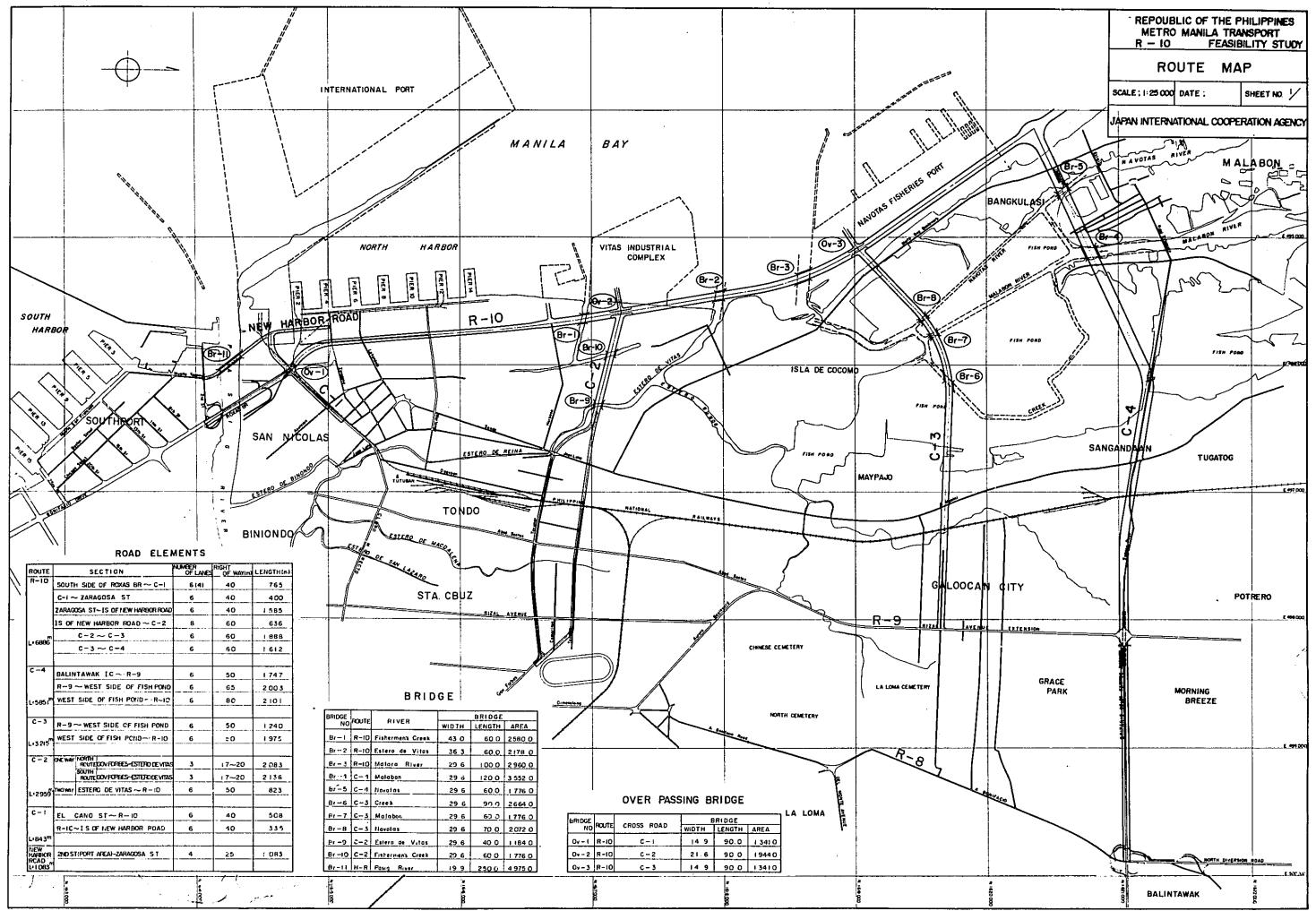


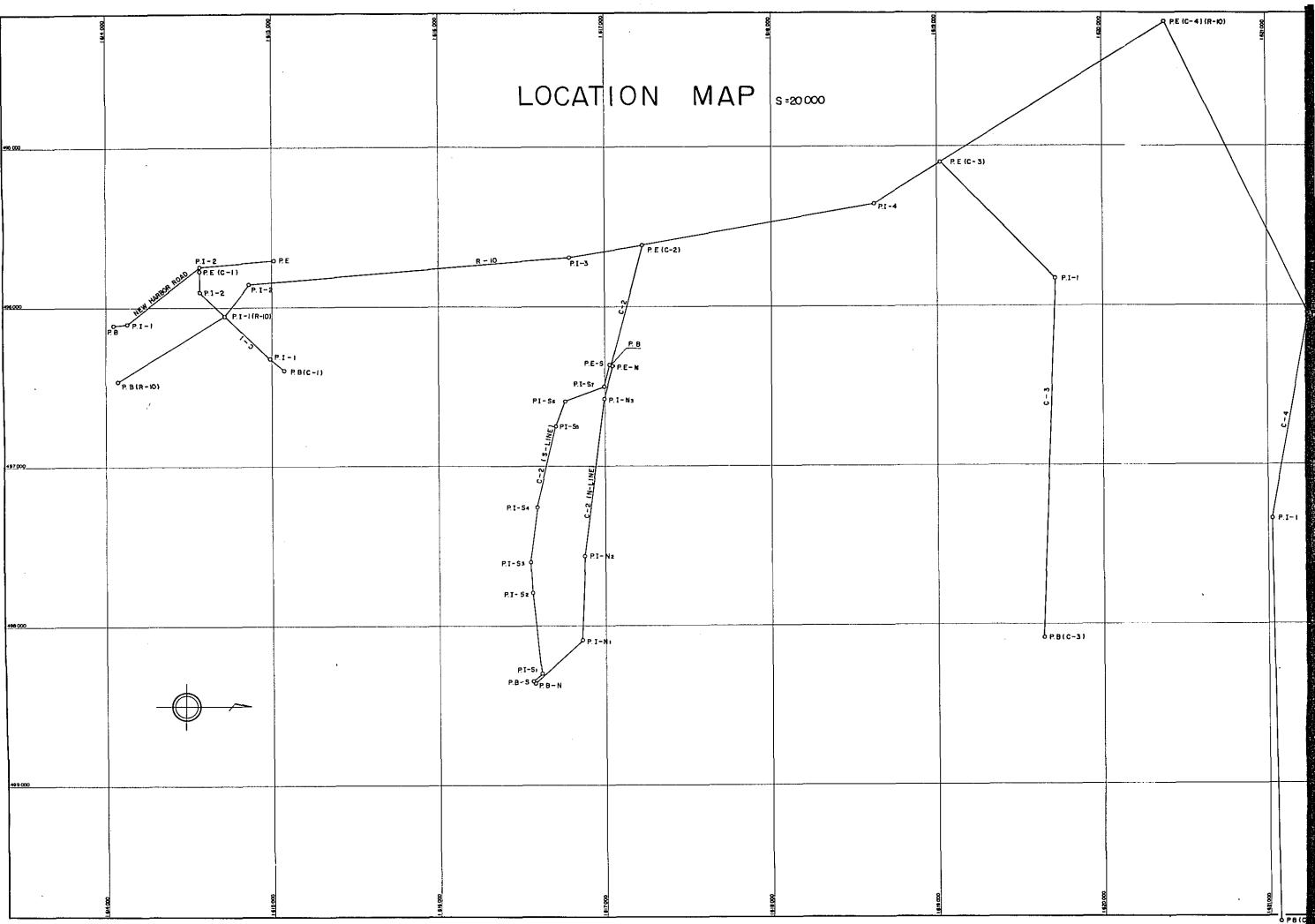
AUGUST, 1975

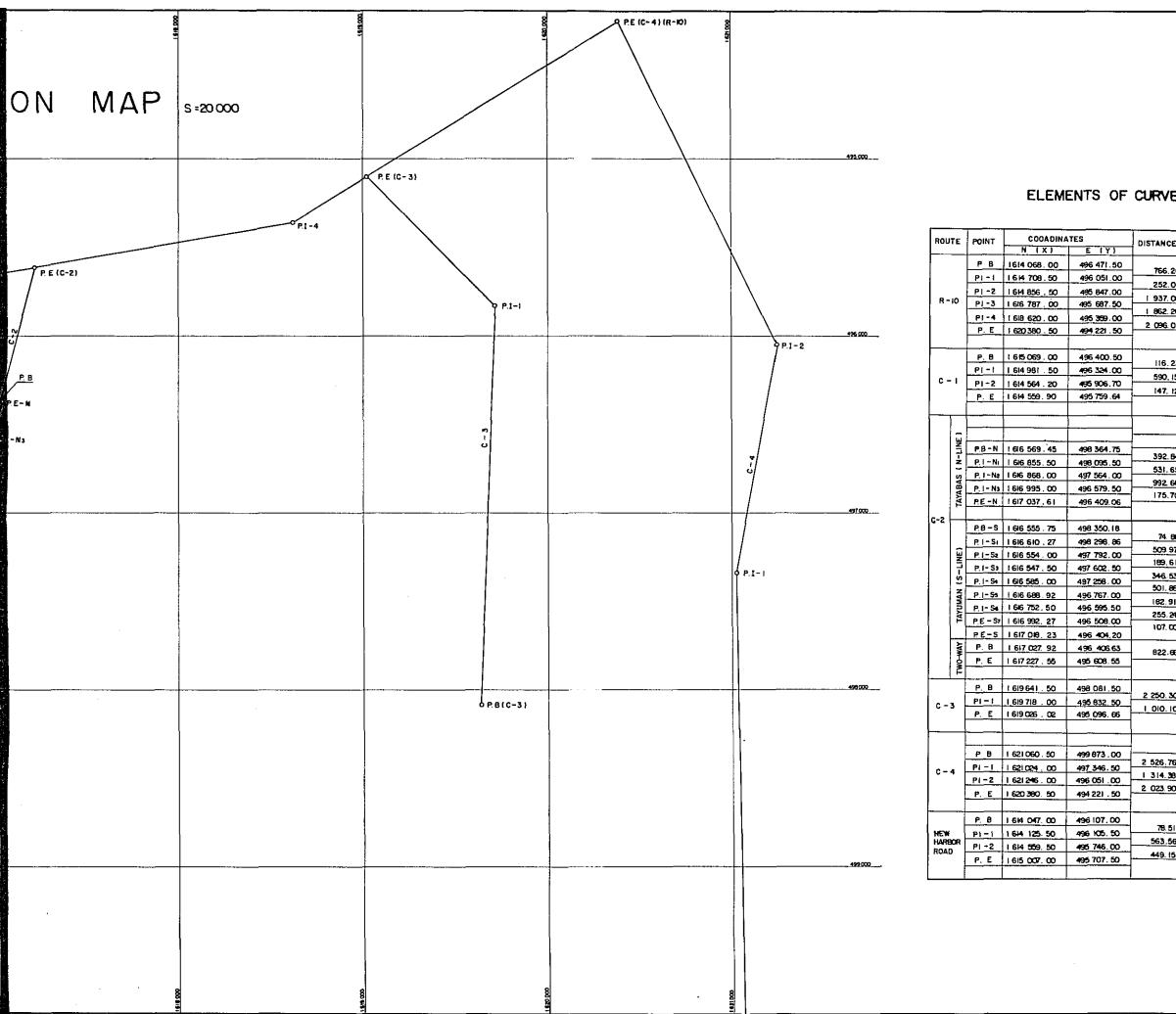
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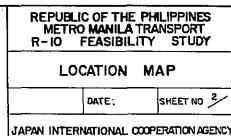






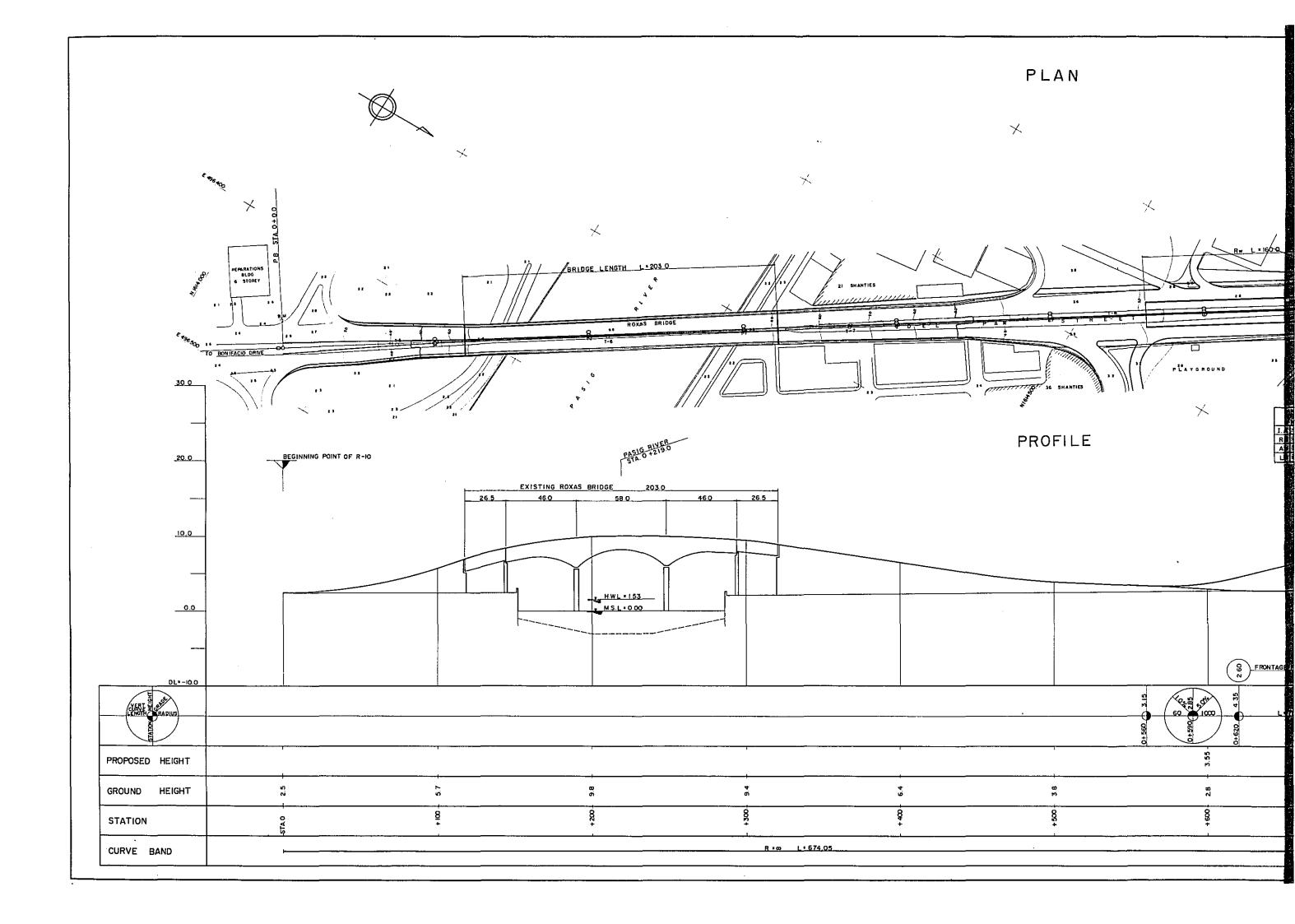
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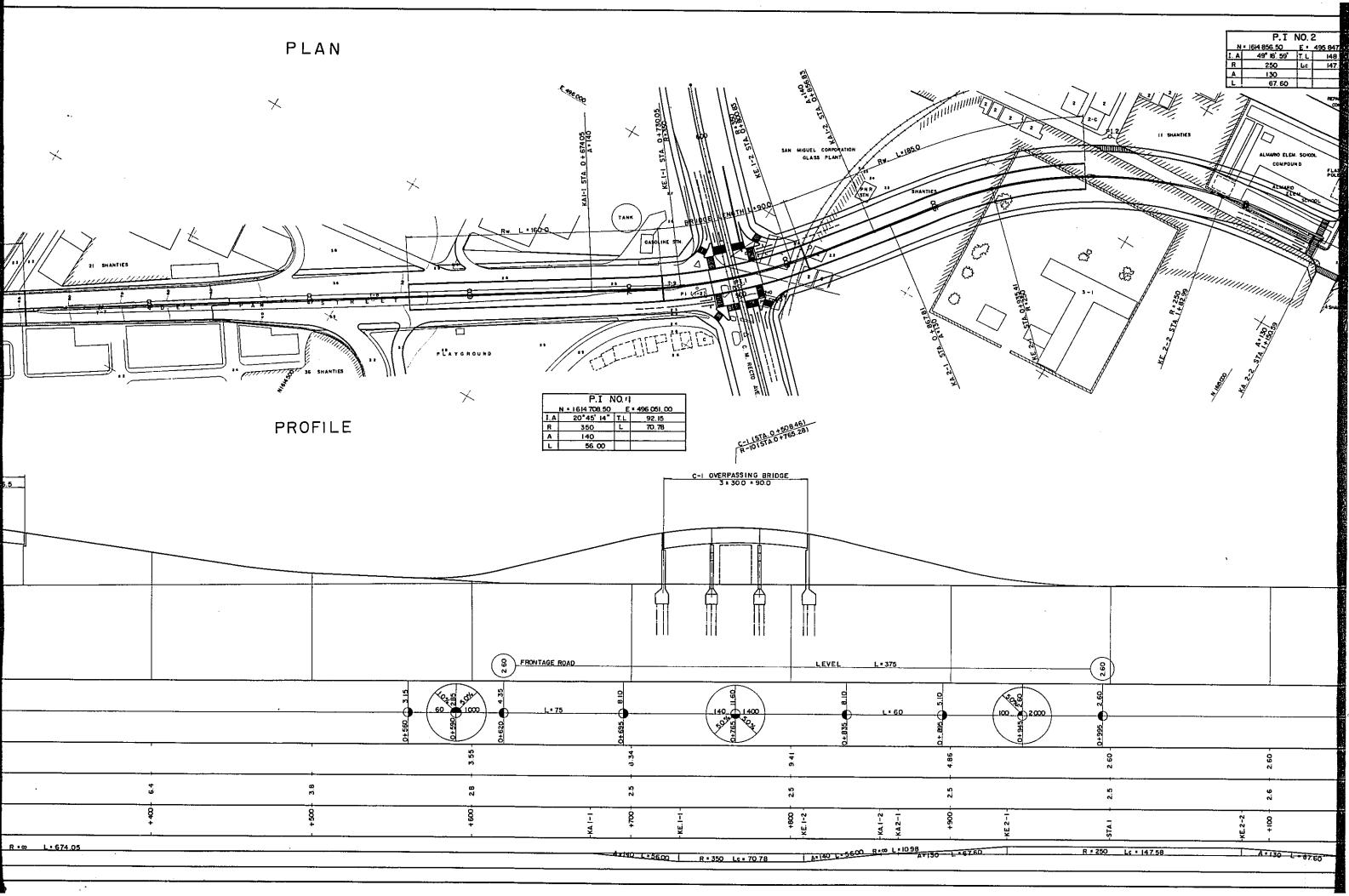
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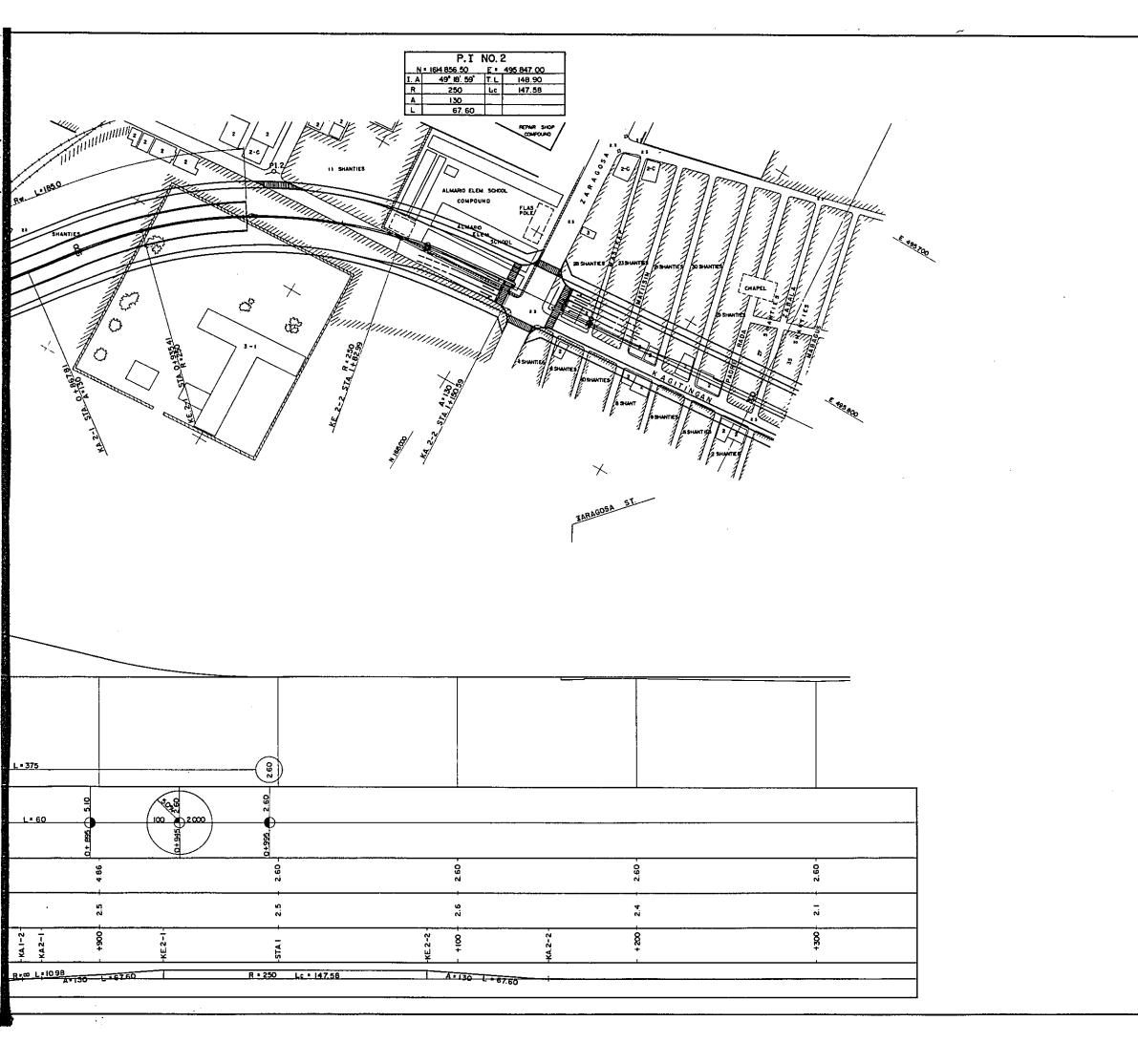


ELEMENTS OF CURVE AND COOADINATES

				.	
STANCE (1)	DIRECTION ANGLE (#)	INTERSECTION ANGLE (0)	PADIUS OF CURVATURE (R)	PARAMETER OF CLOTHOIDE (A)	TOTAL LENGTH OF ROUTE
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1 937.08	355 16 37	49 18 59	250	130	
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115,10					
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162.91	290 20 28	<u>8' 23' 27'</u>	600		2 136, 39
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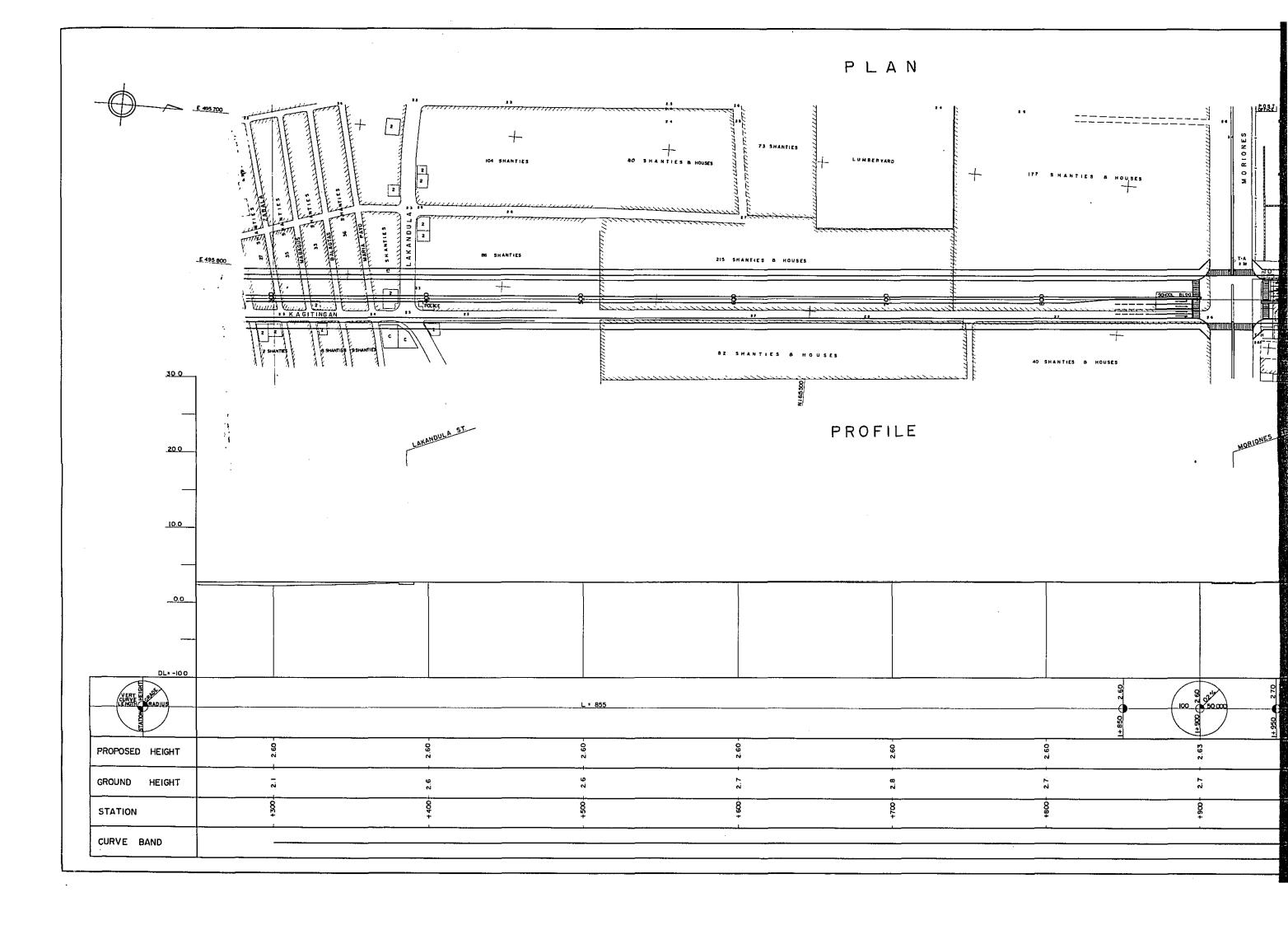


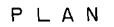


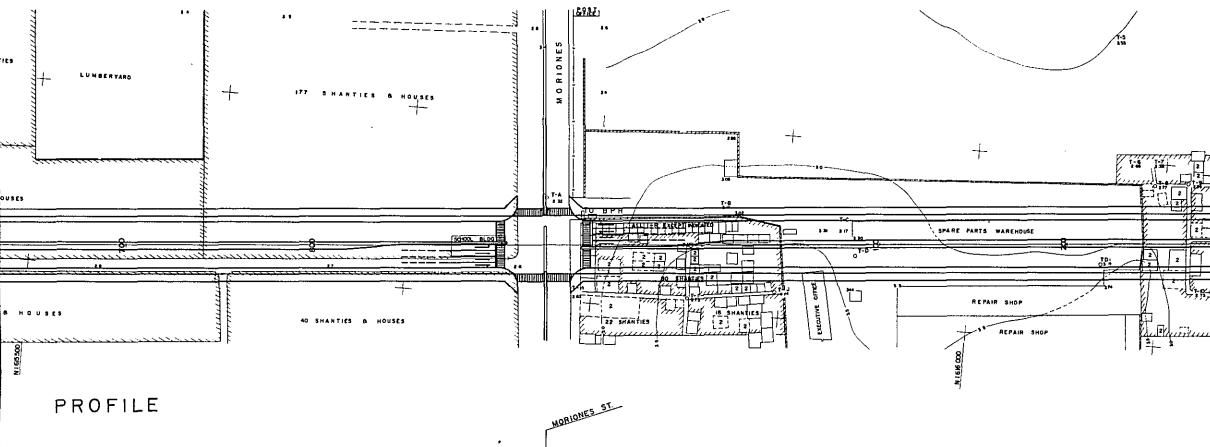


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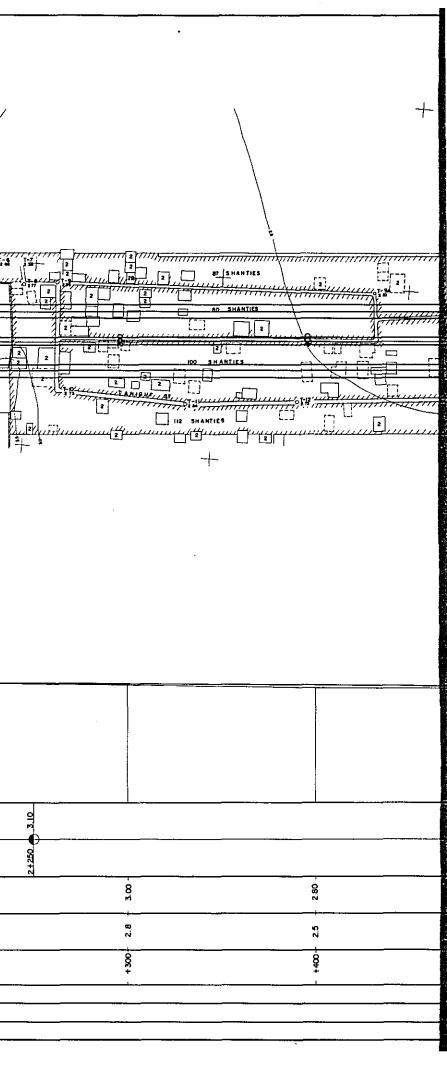


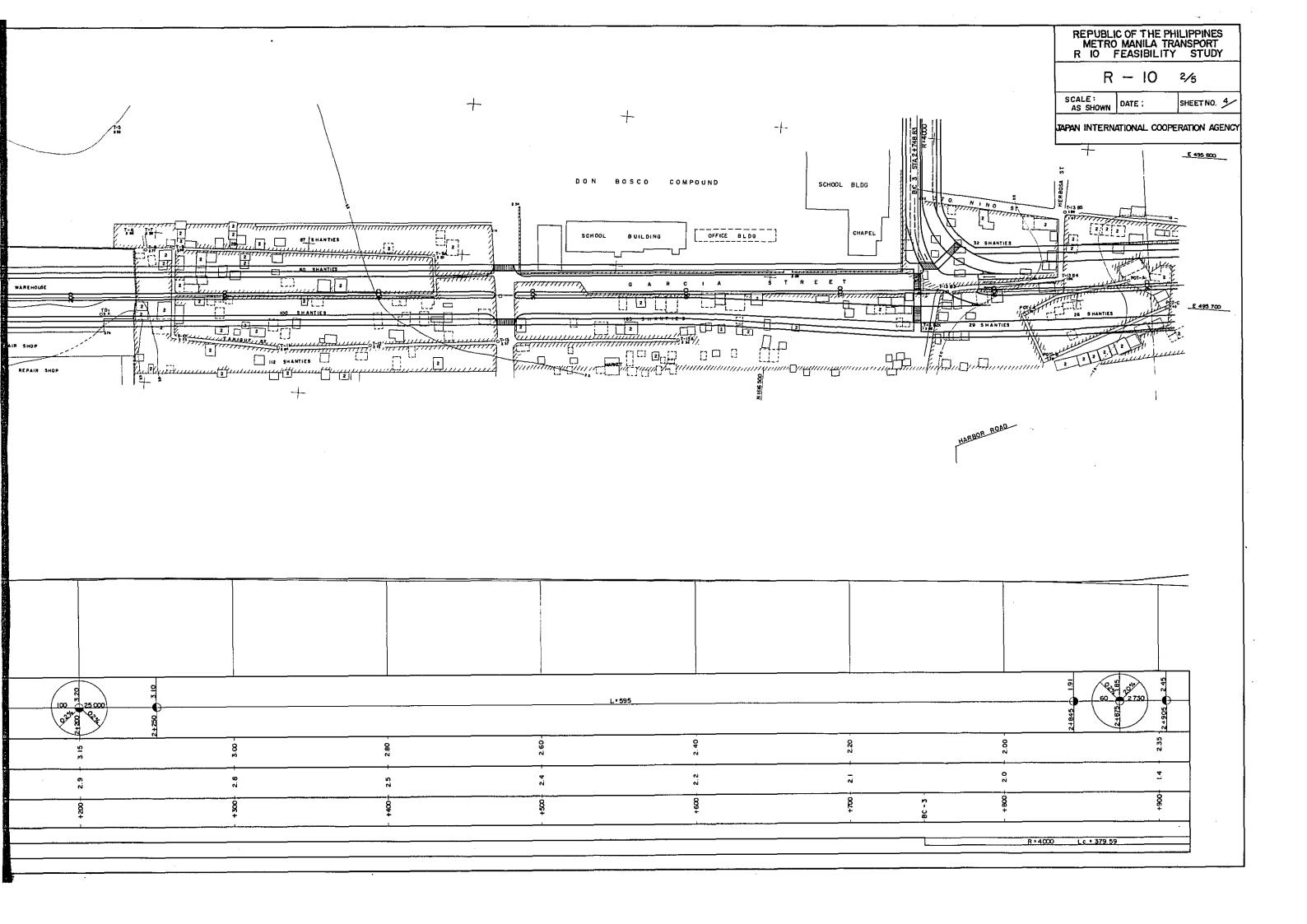


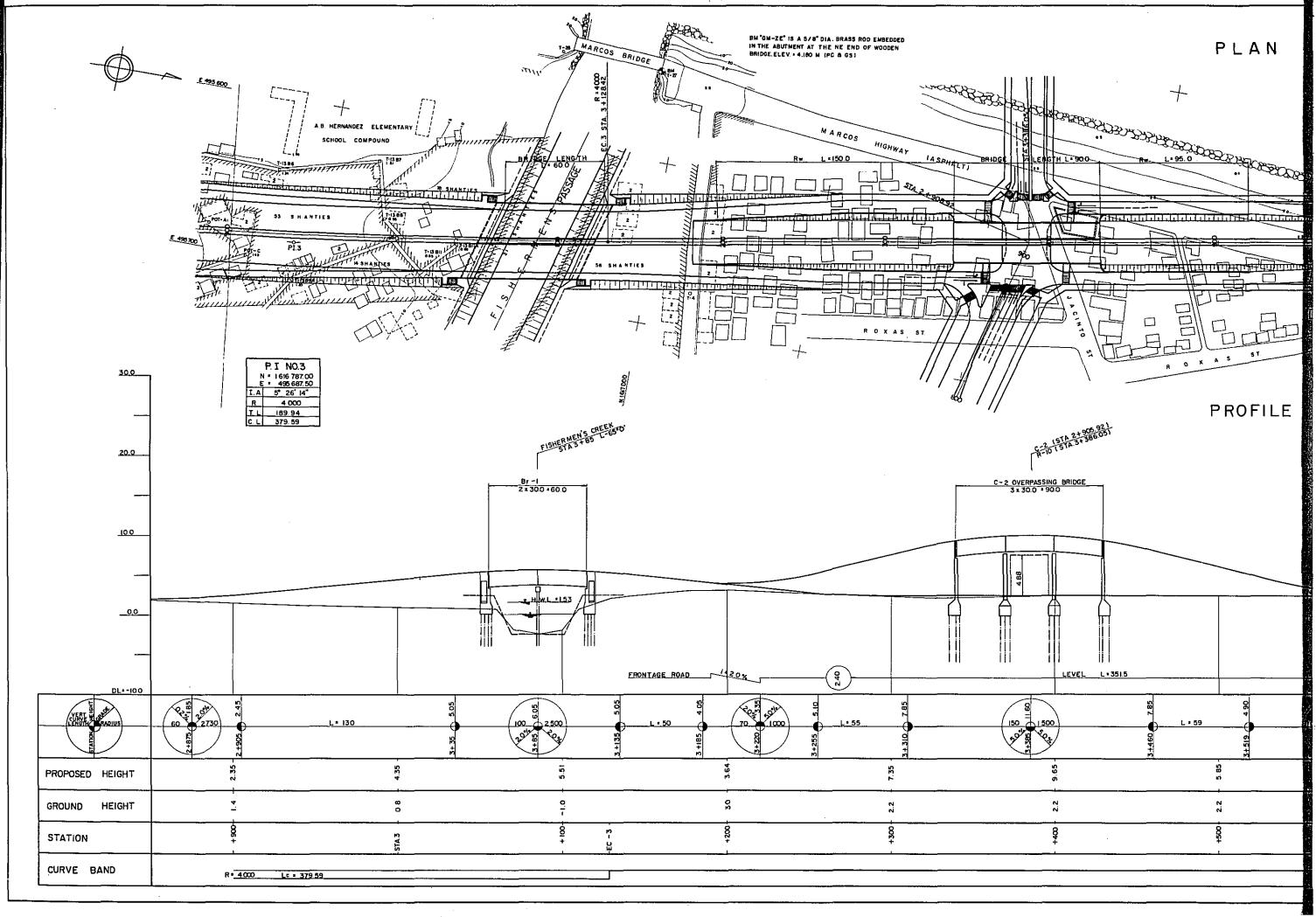


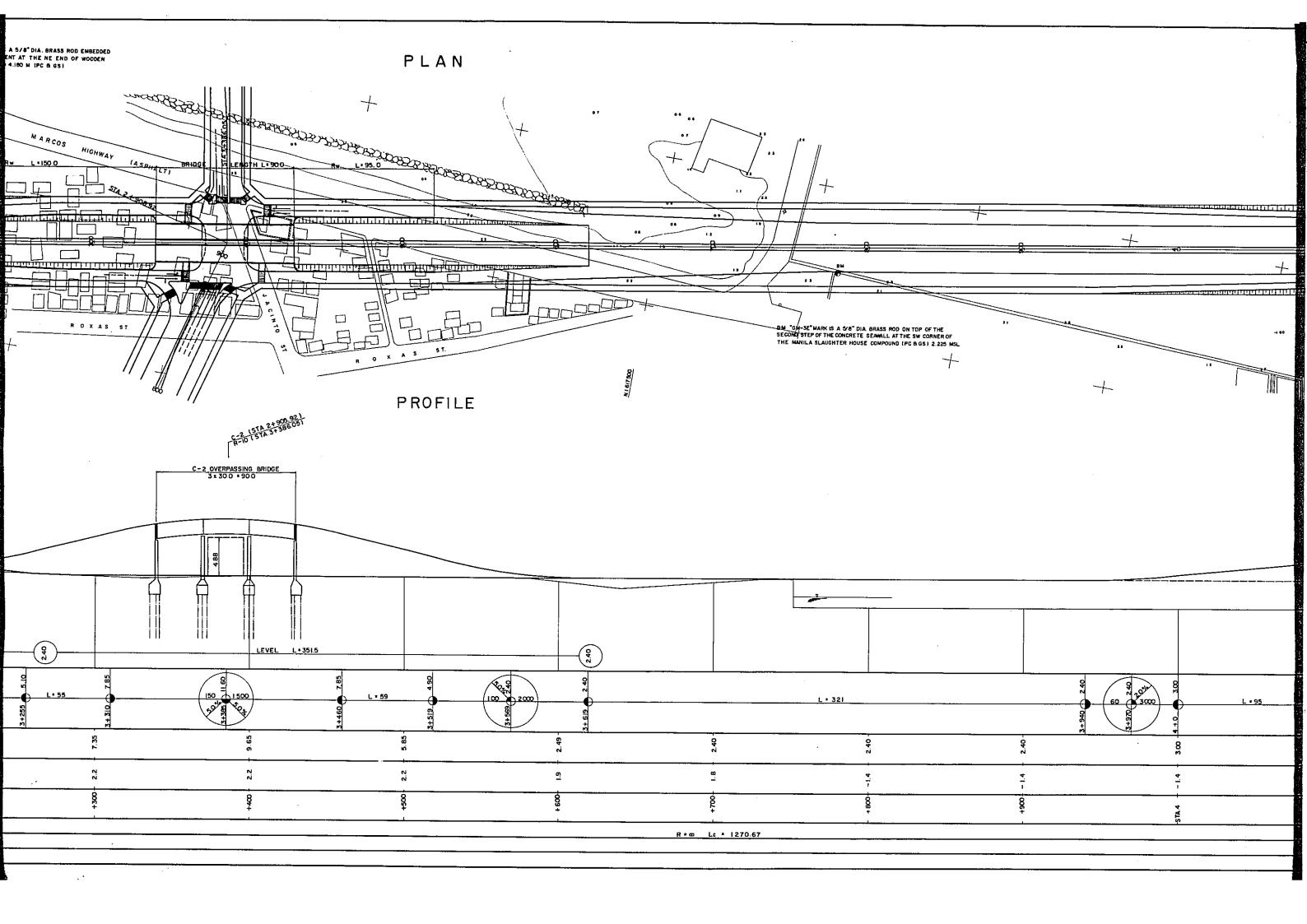
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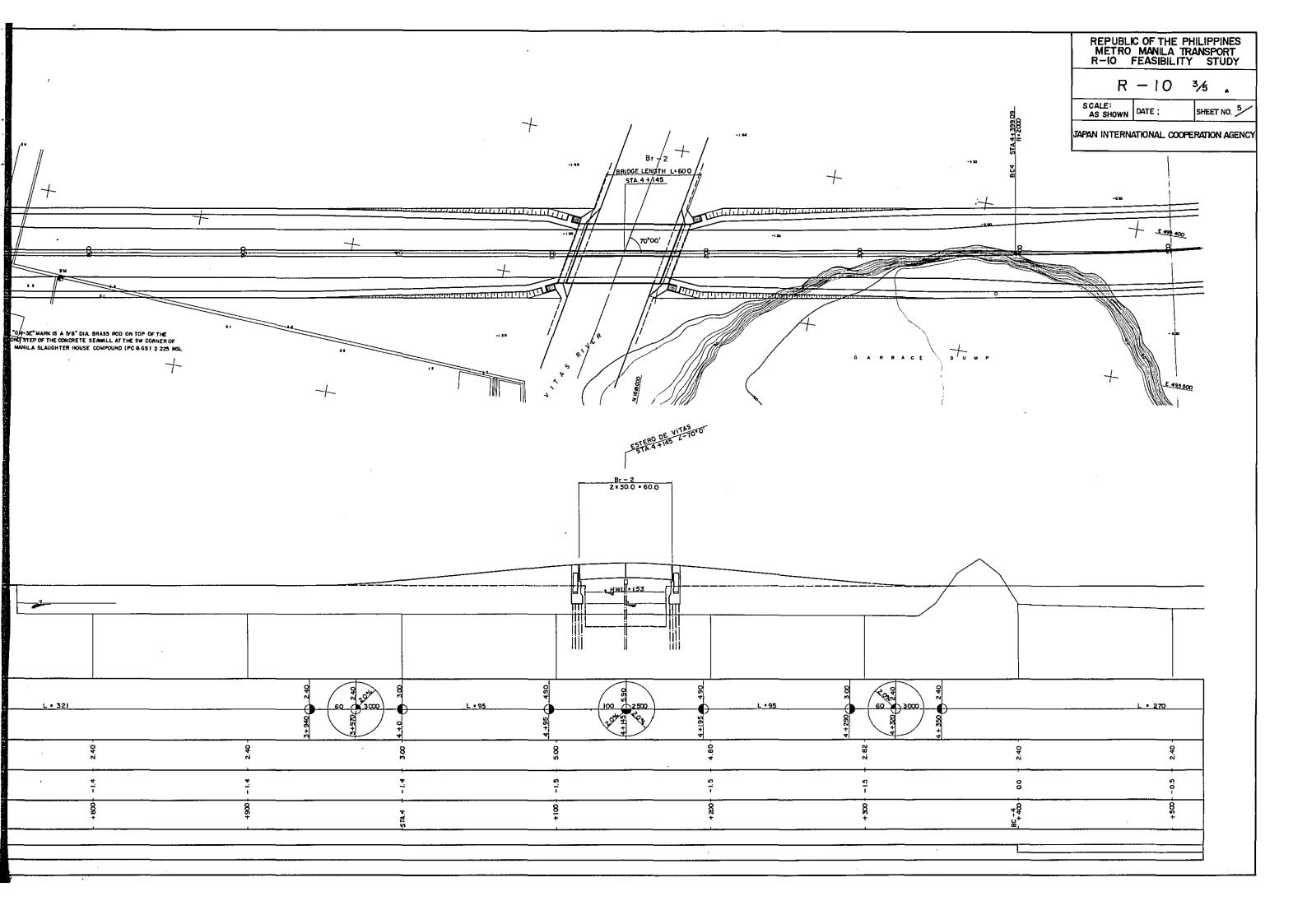
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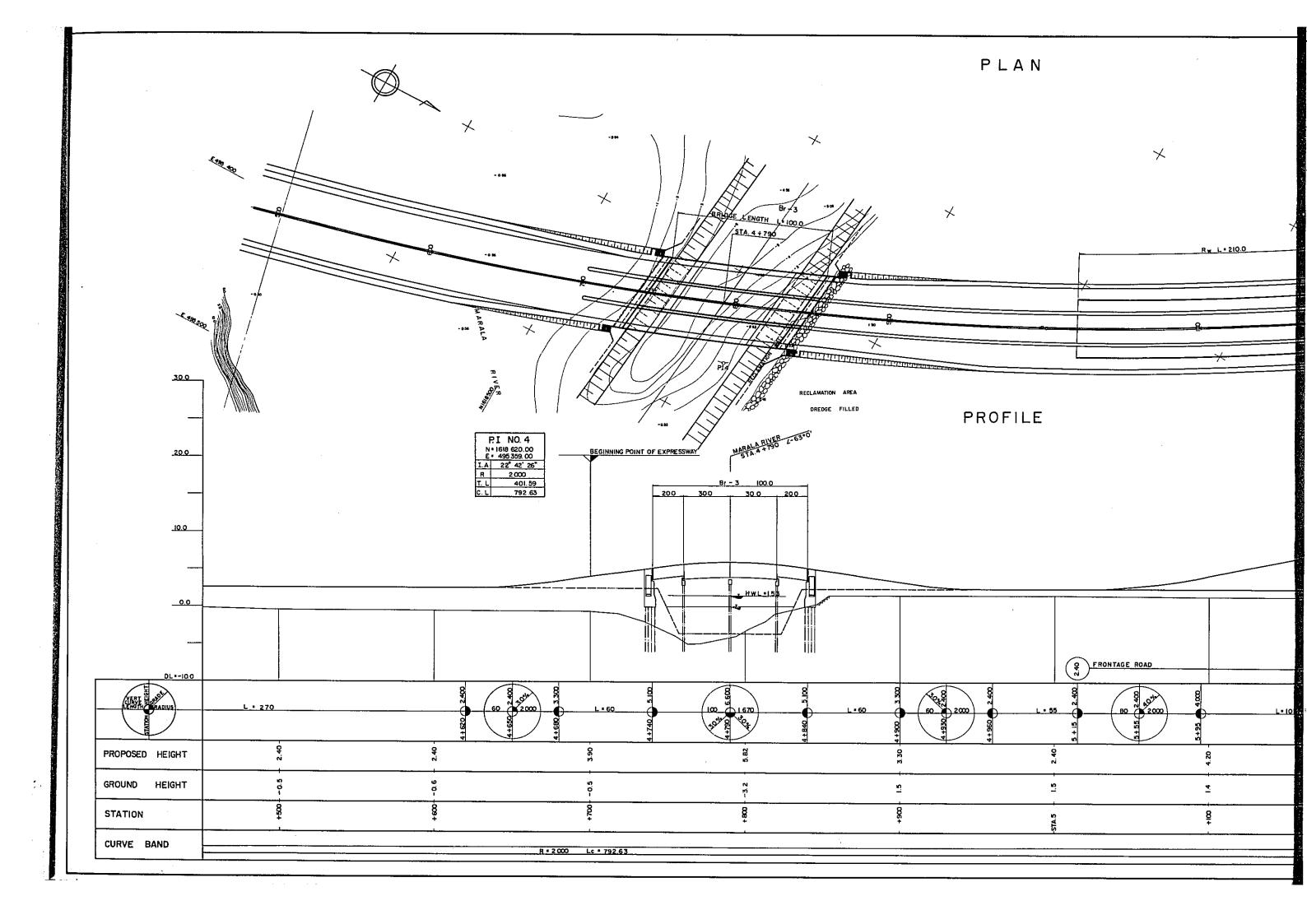


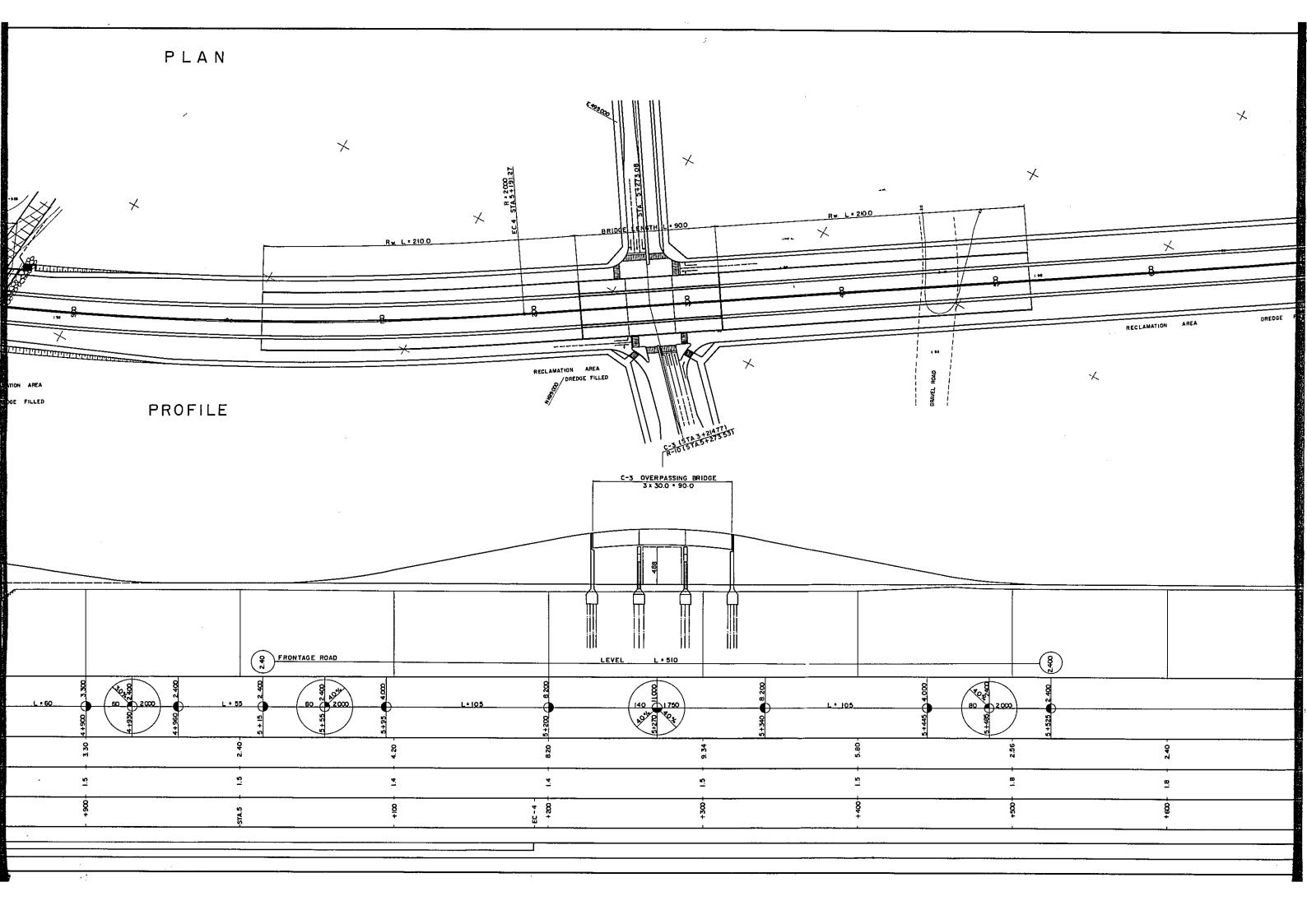


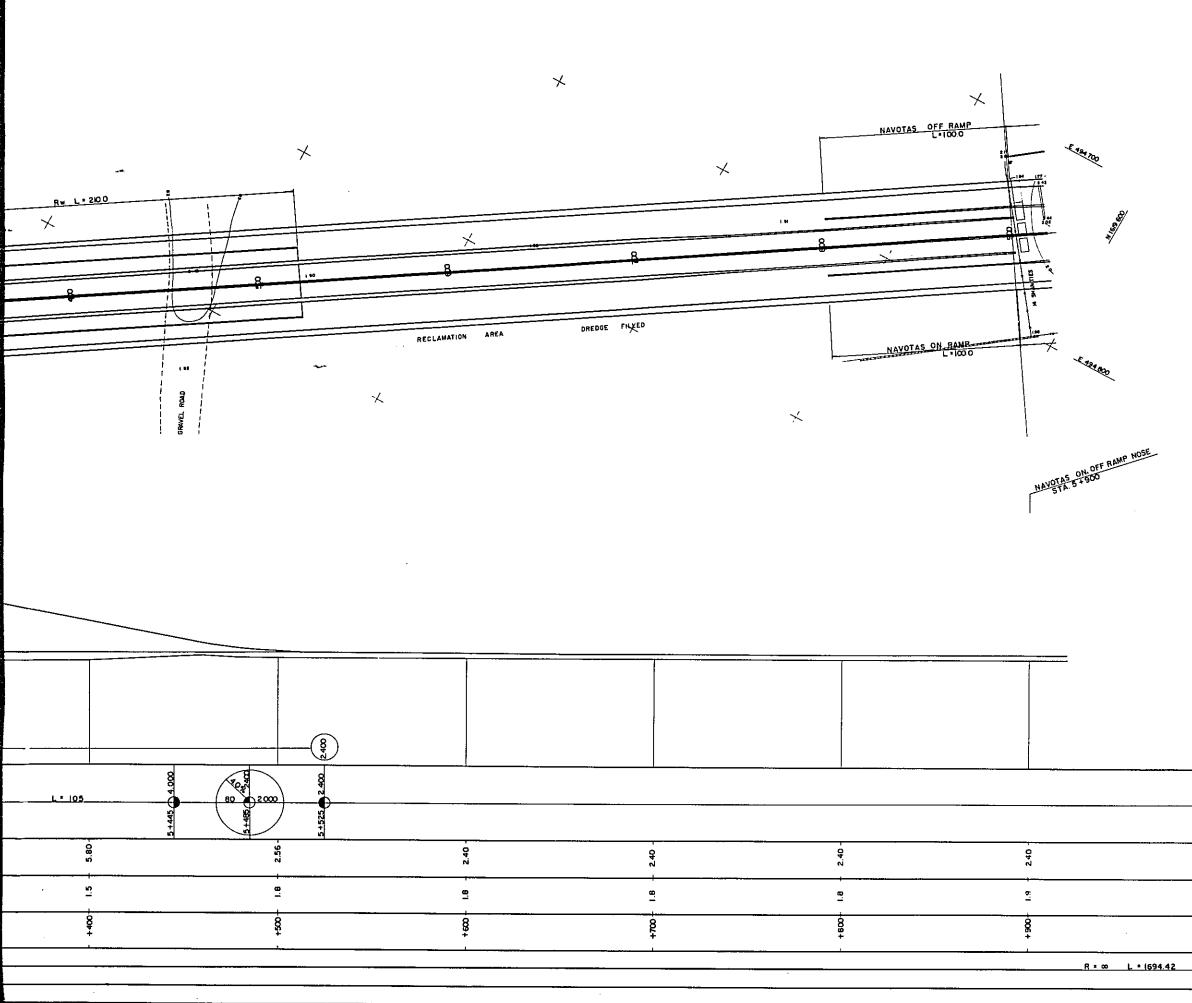




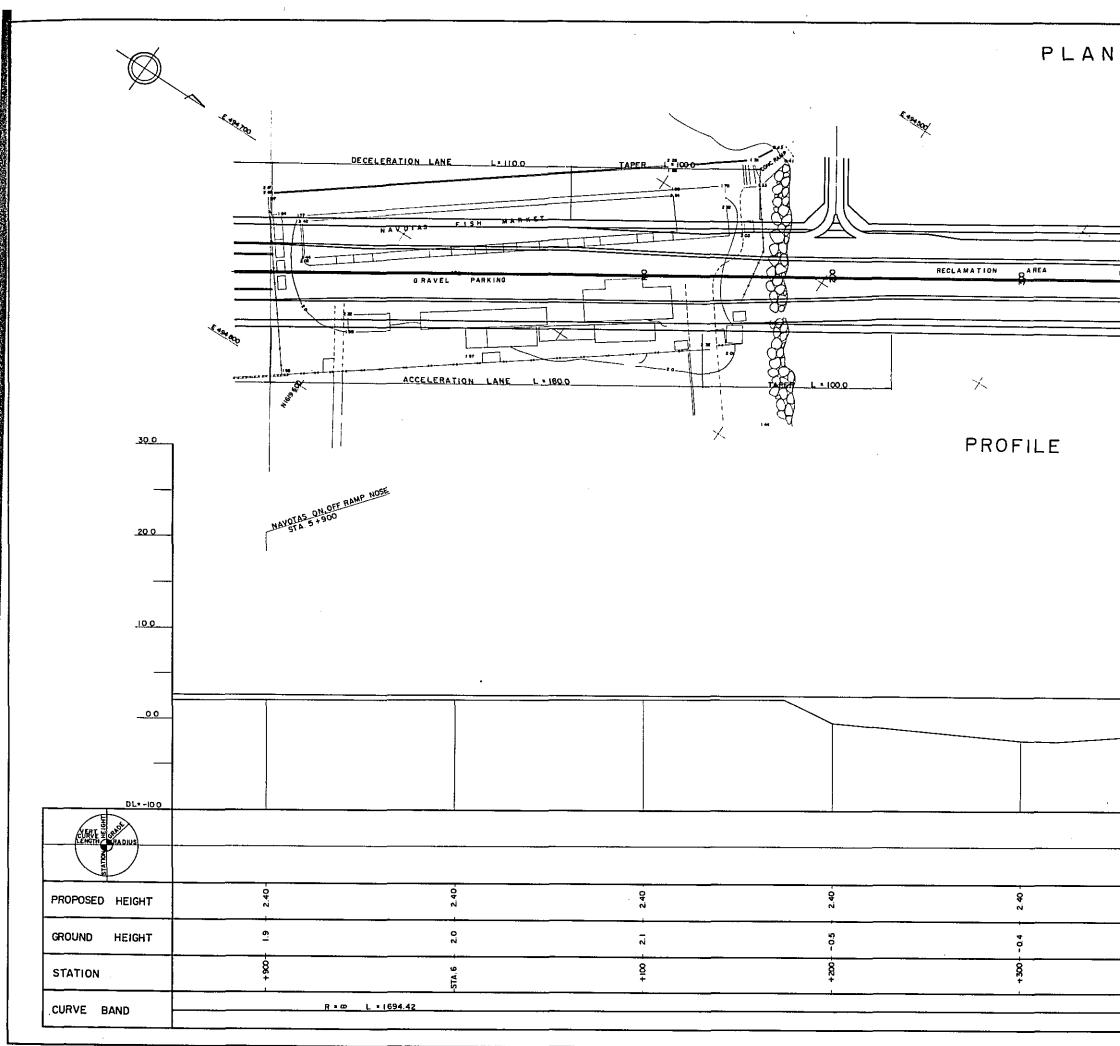




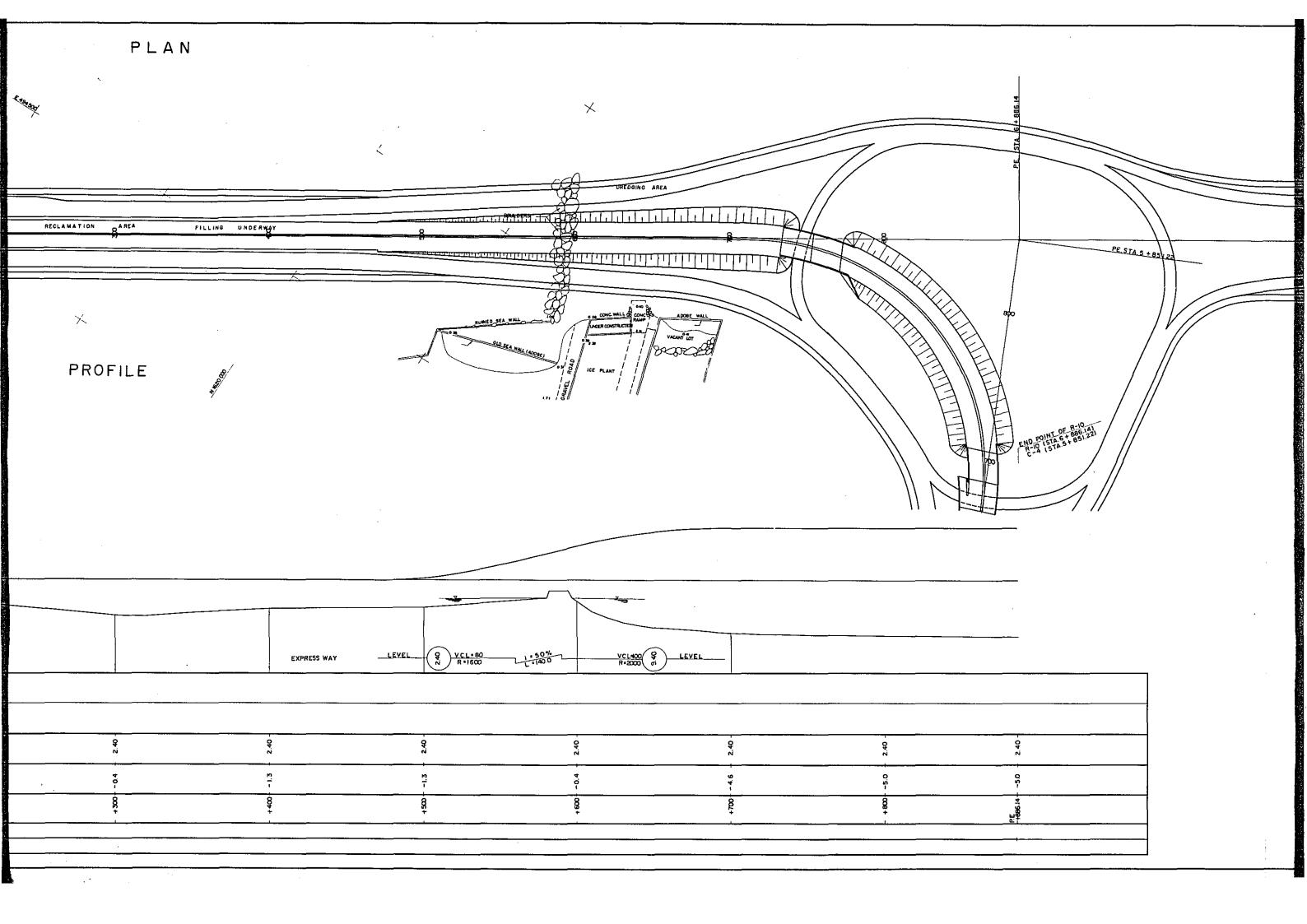


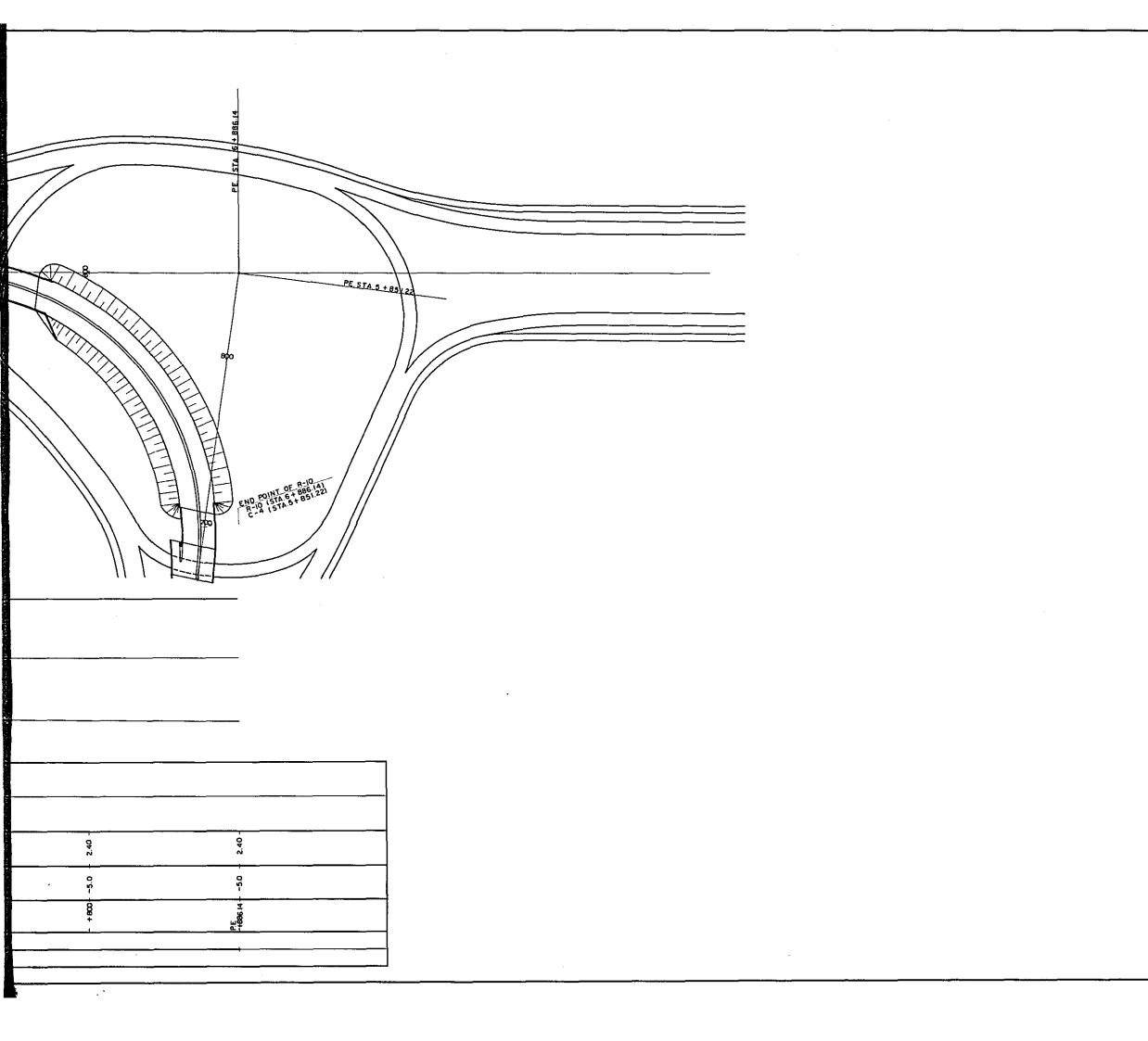


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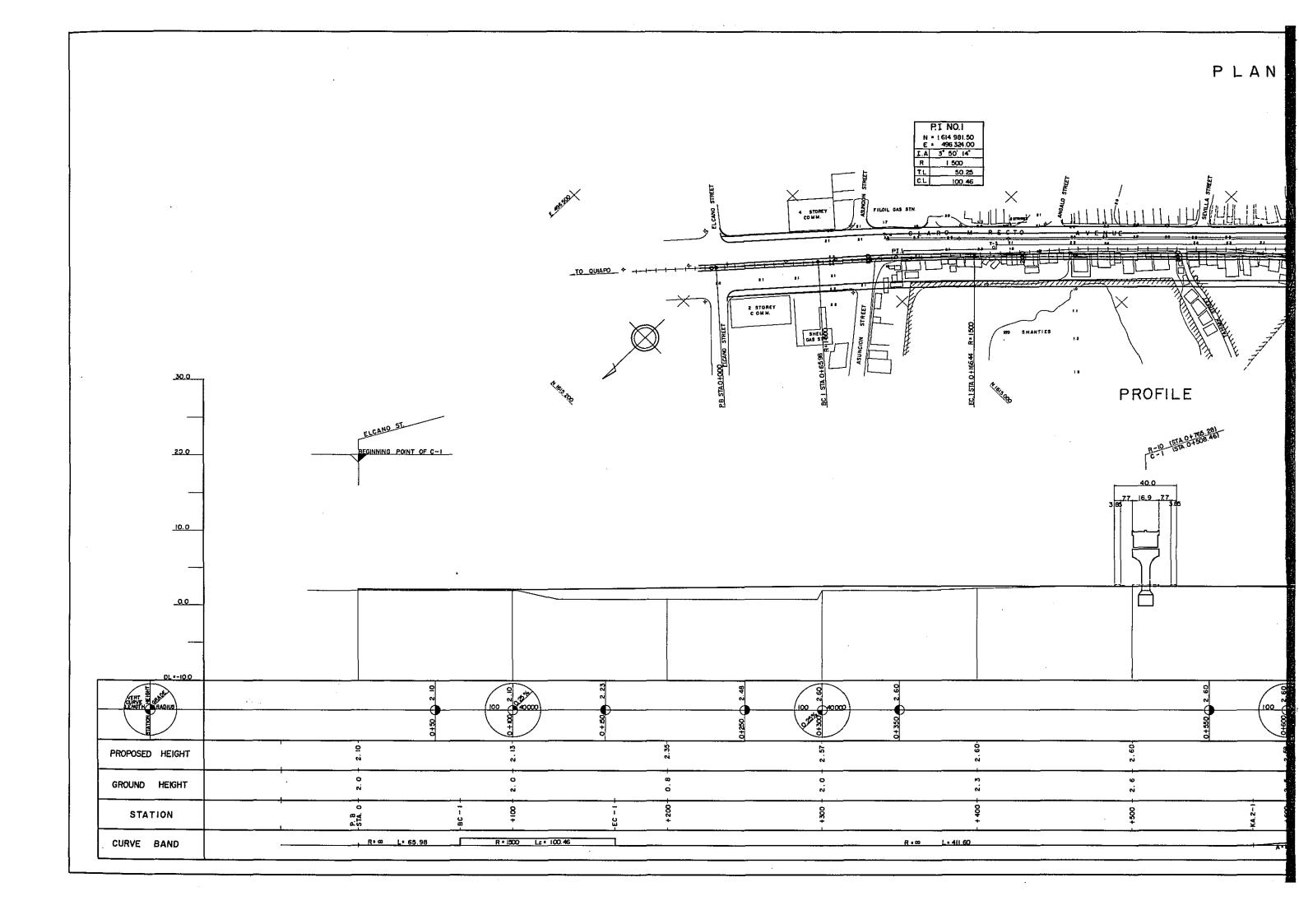


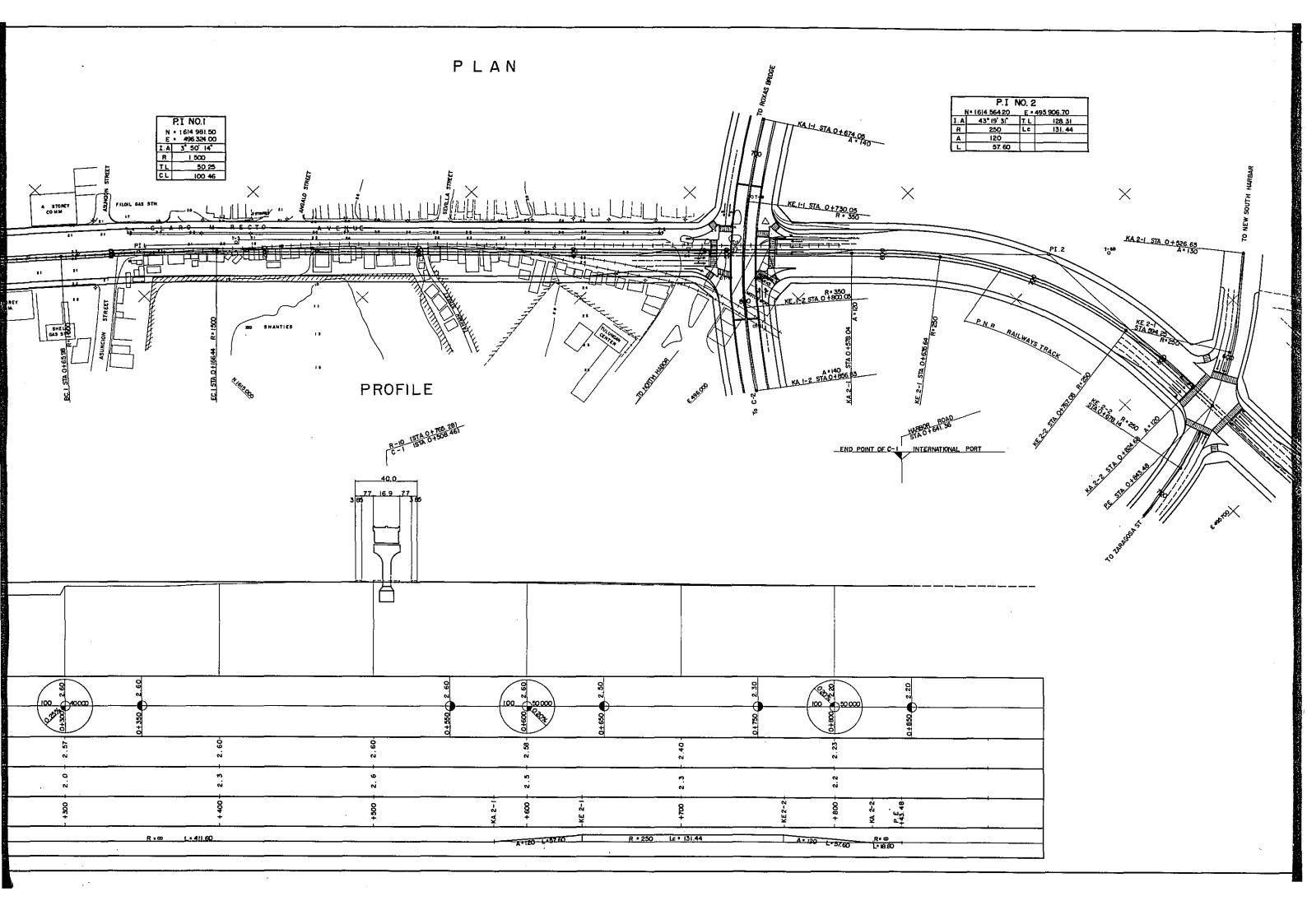
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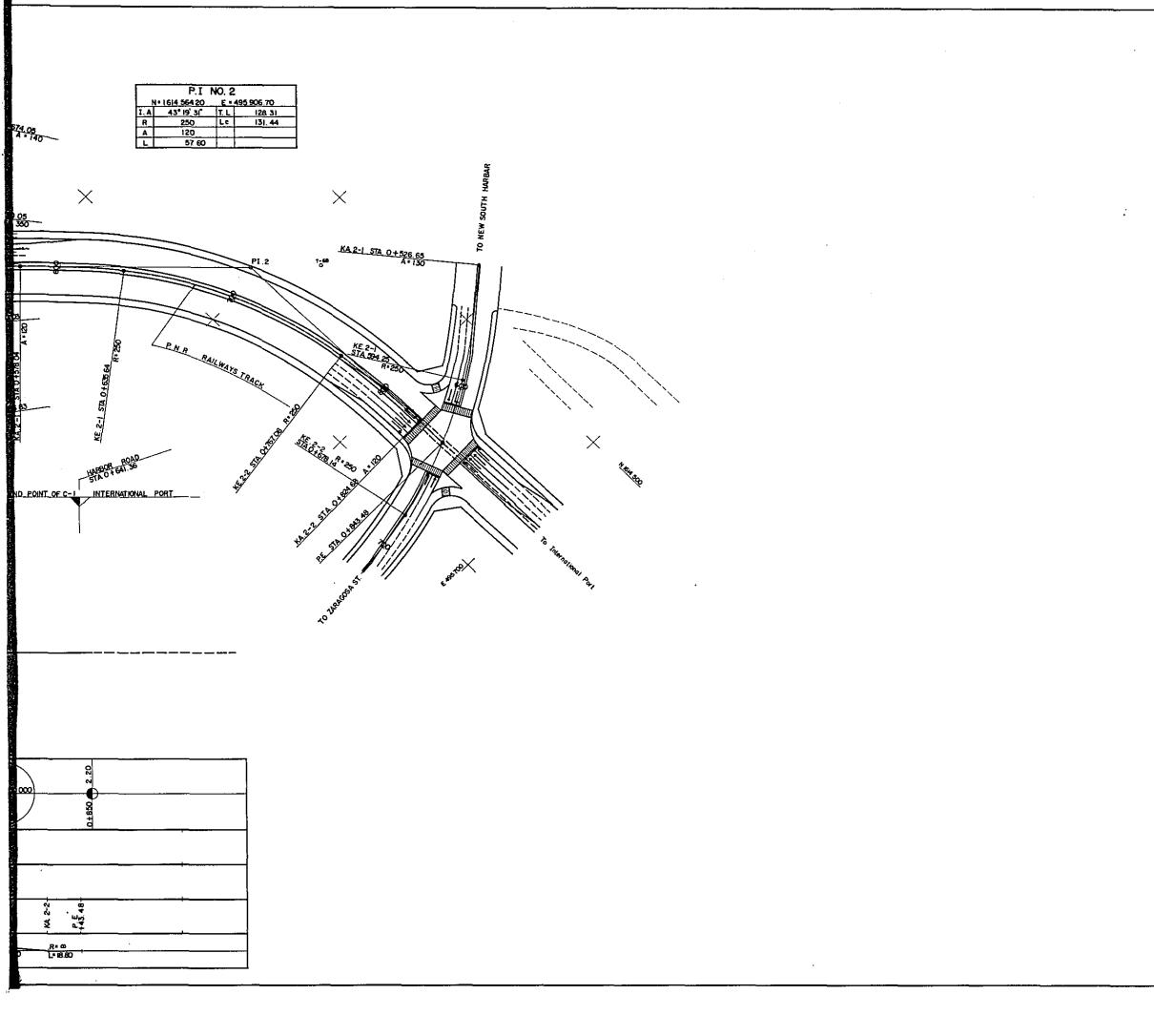




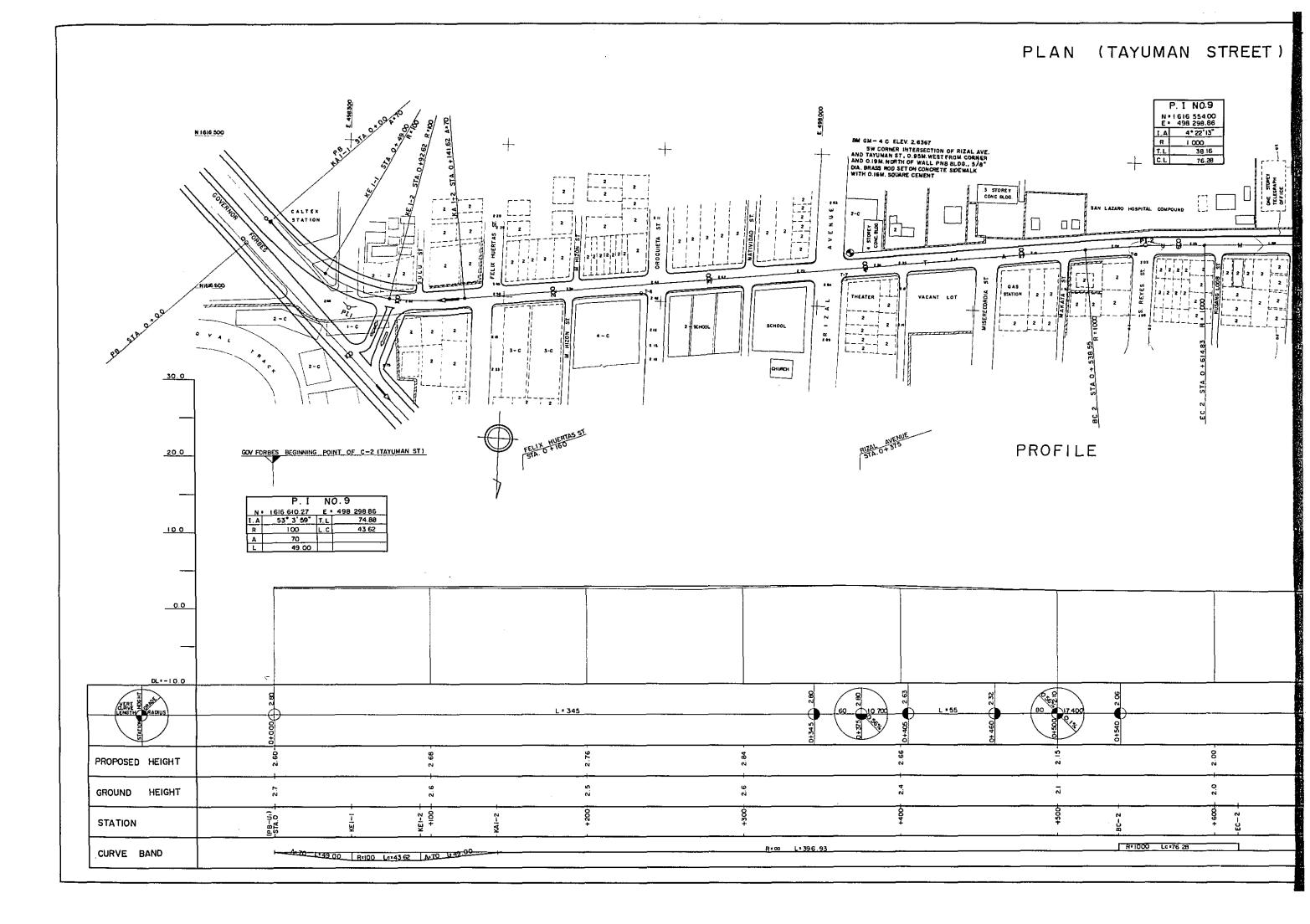
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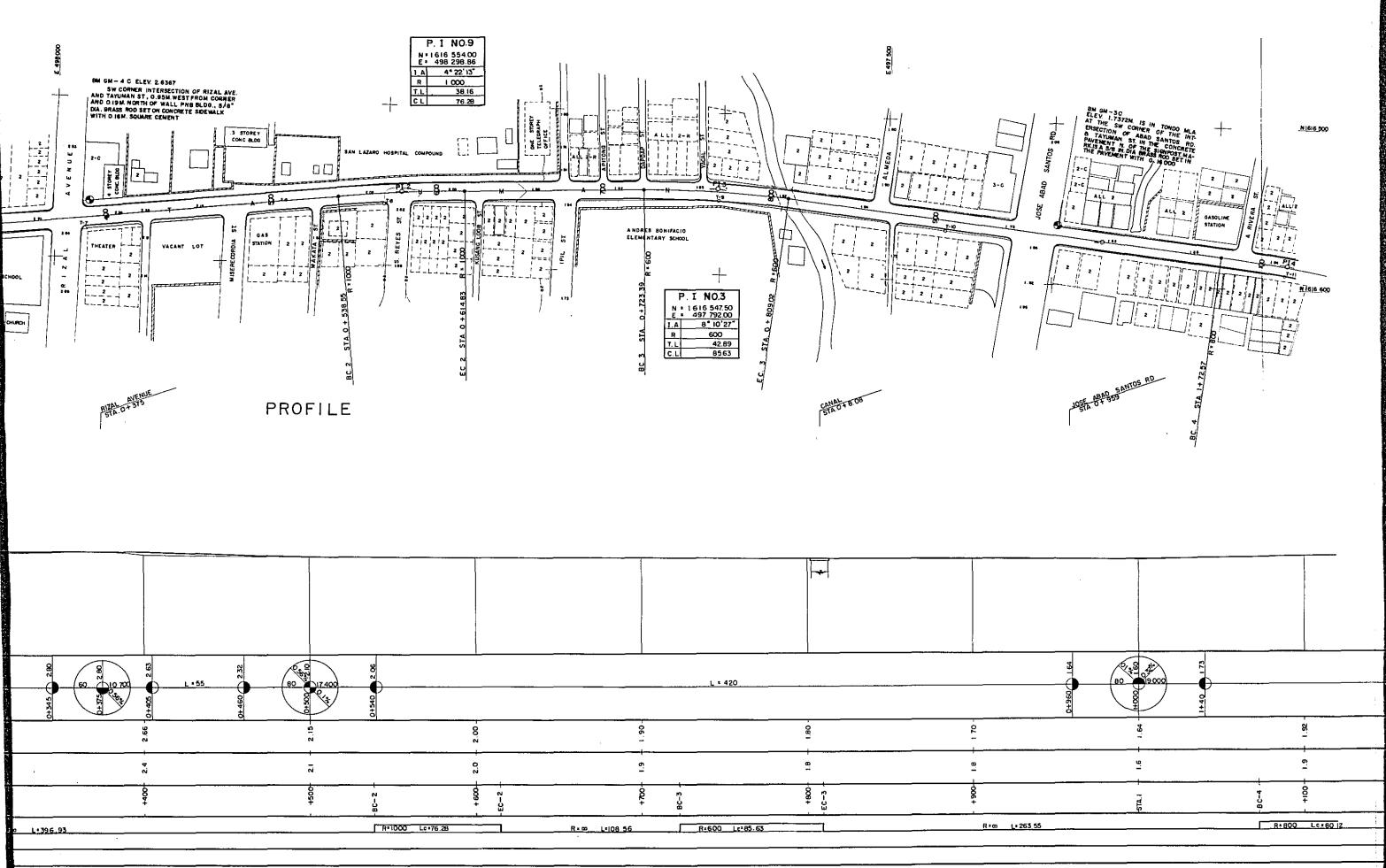


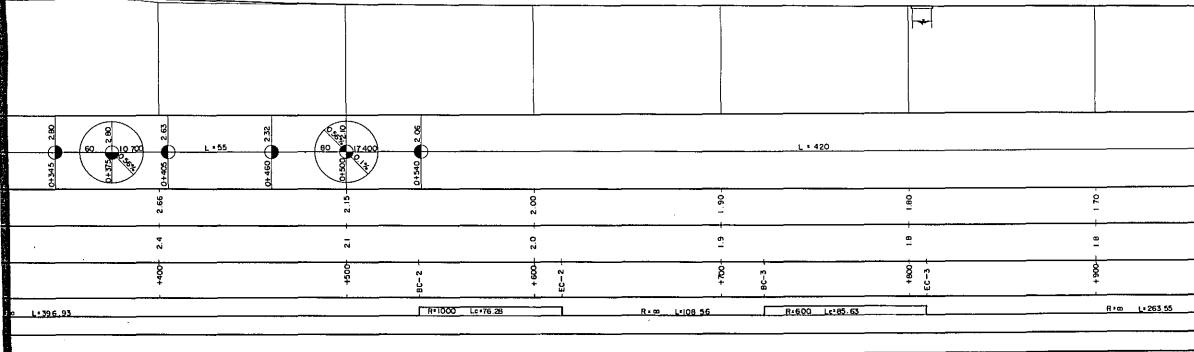


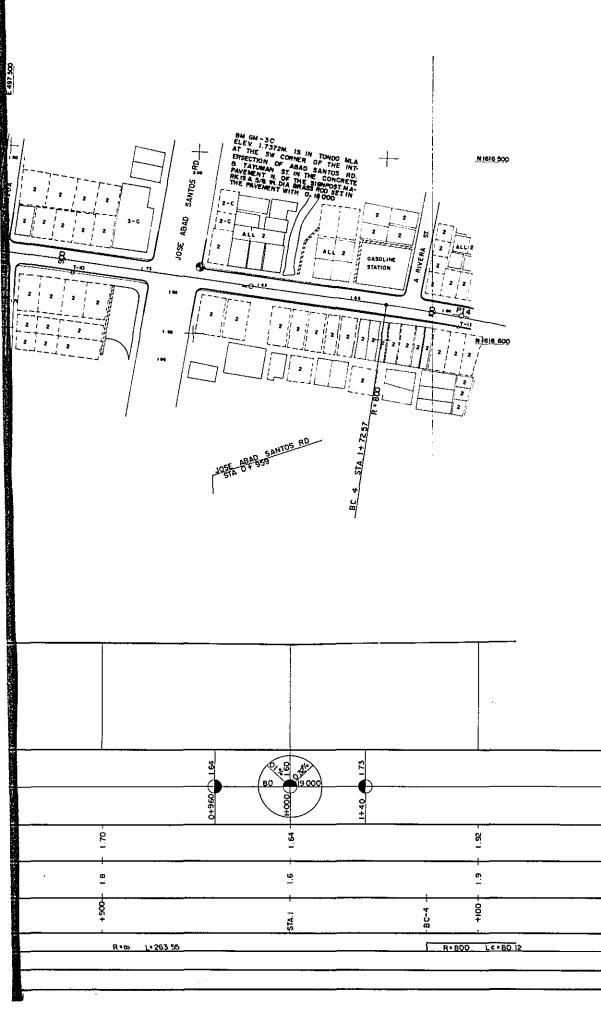
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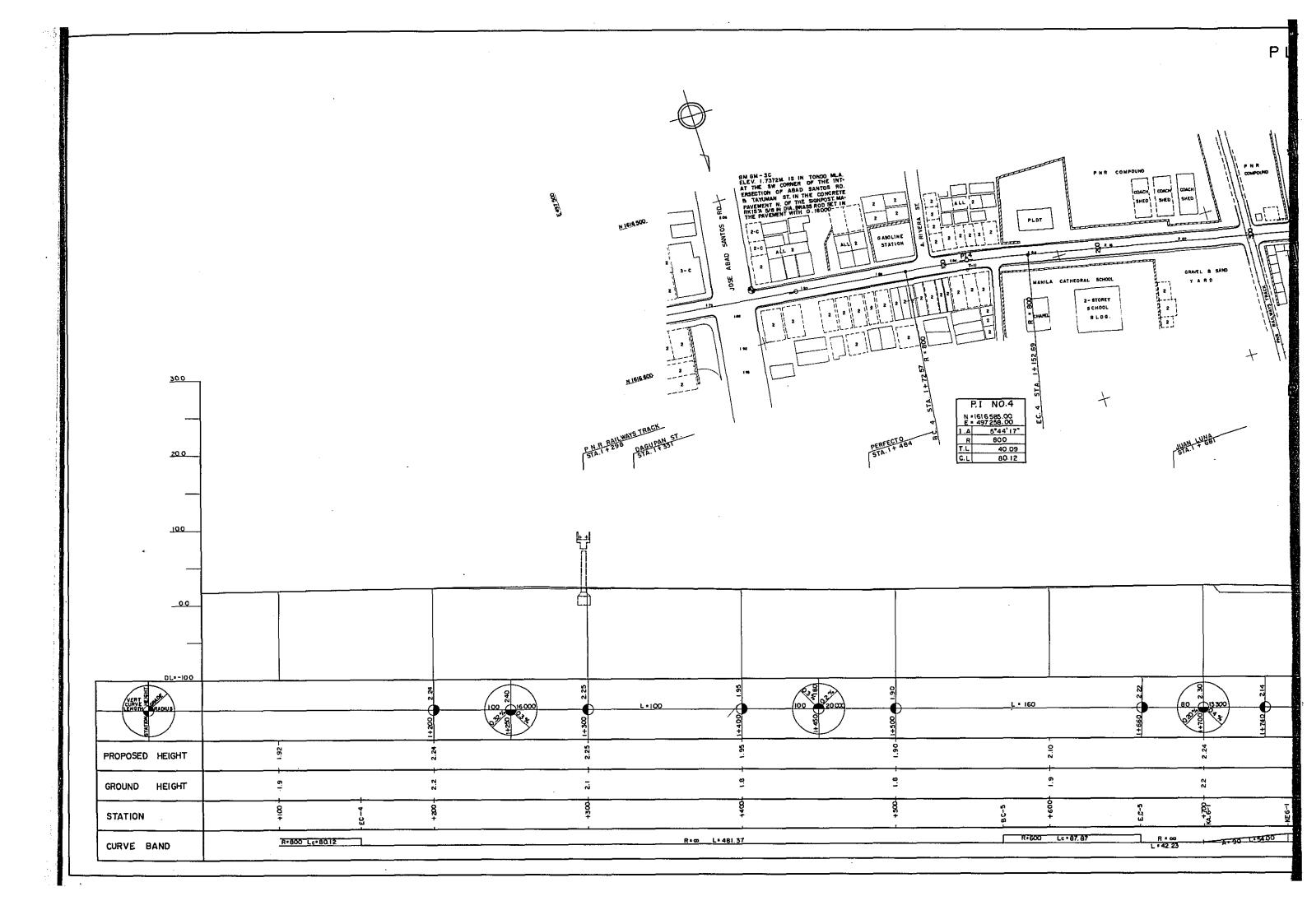


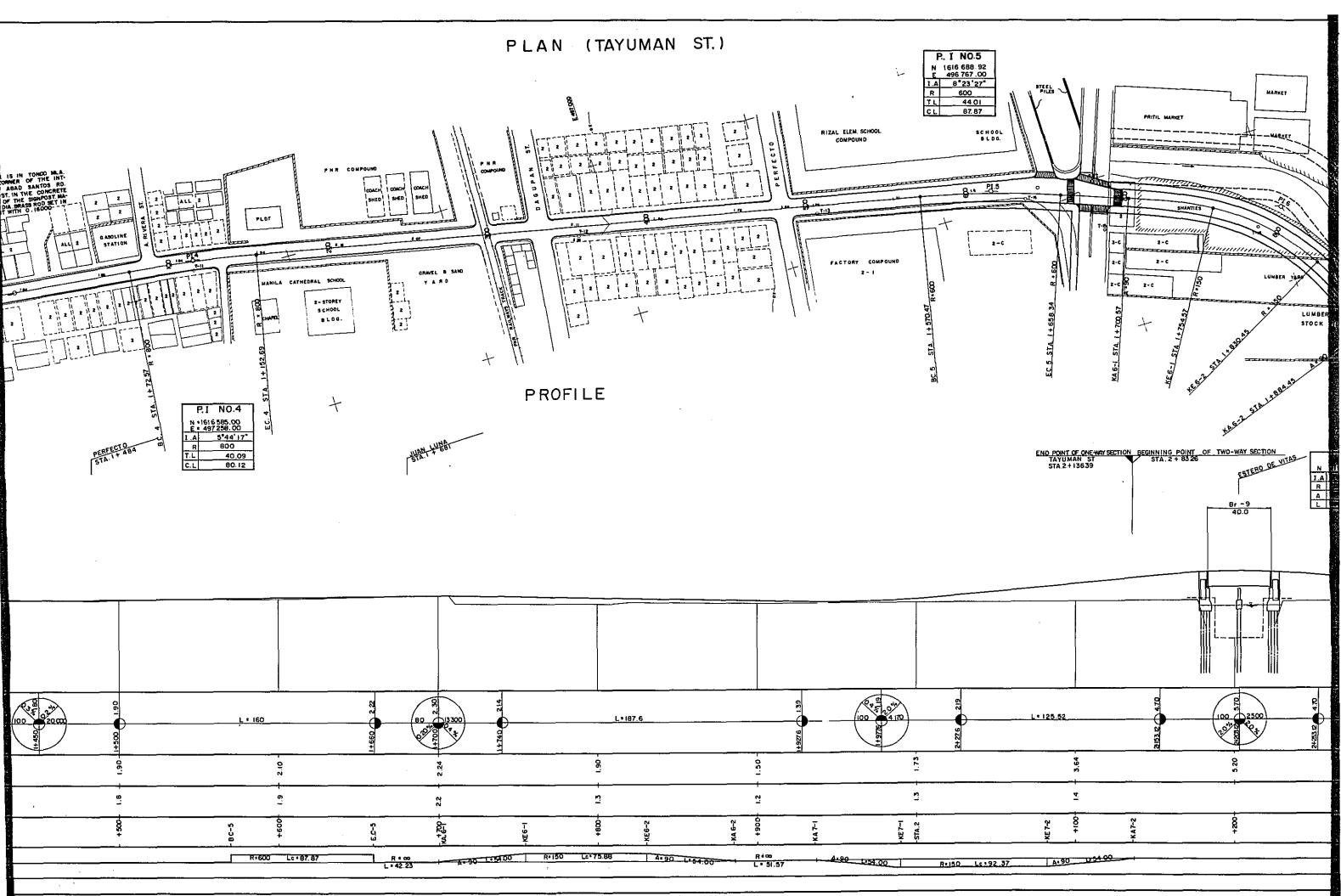


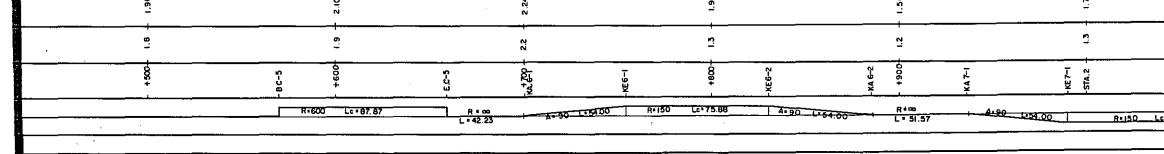
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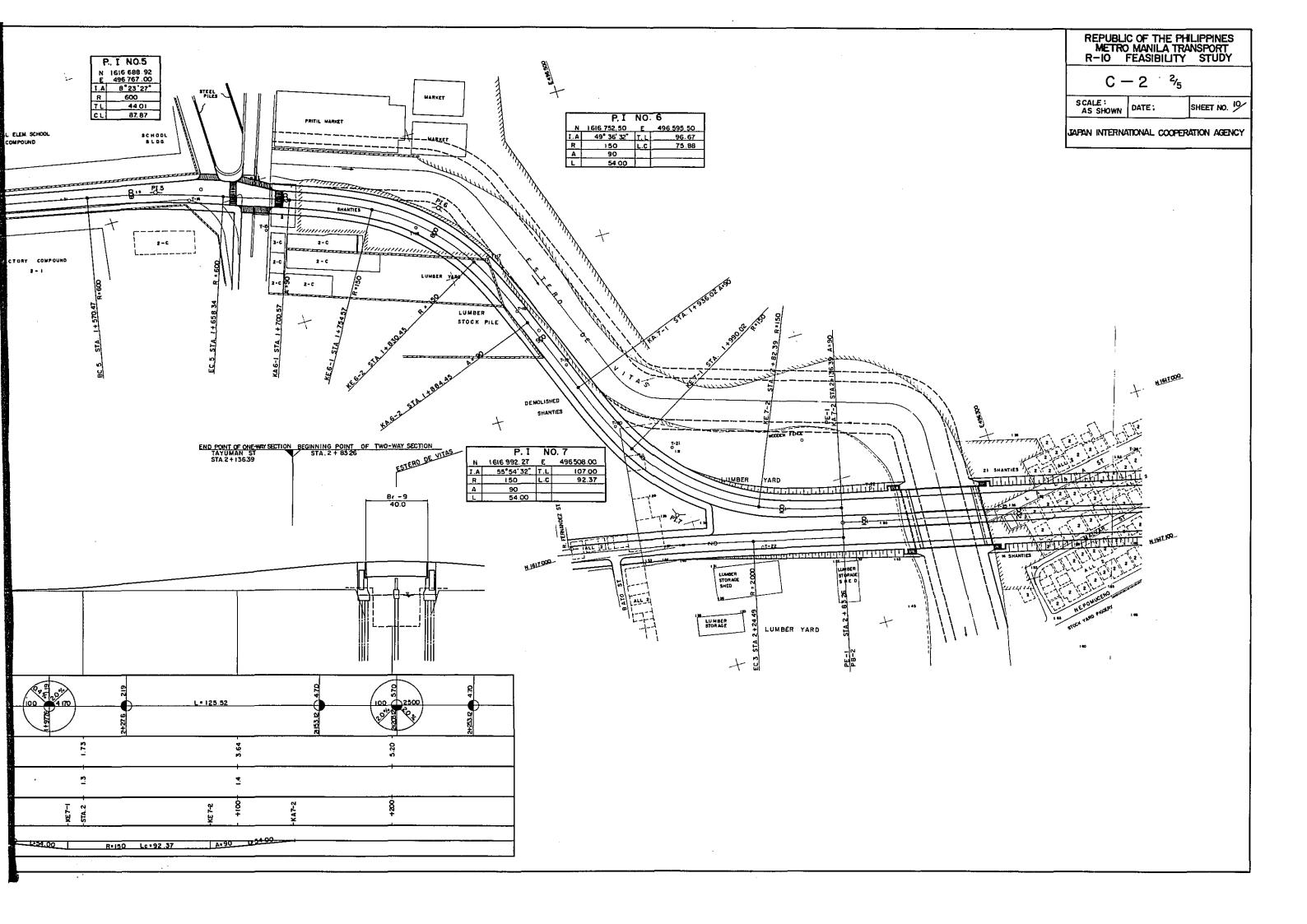
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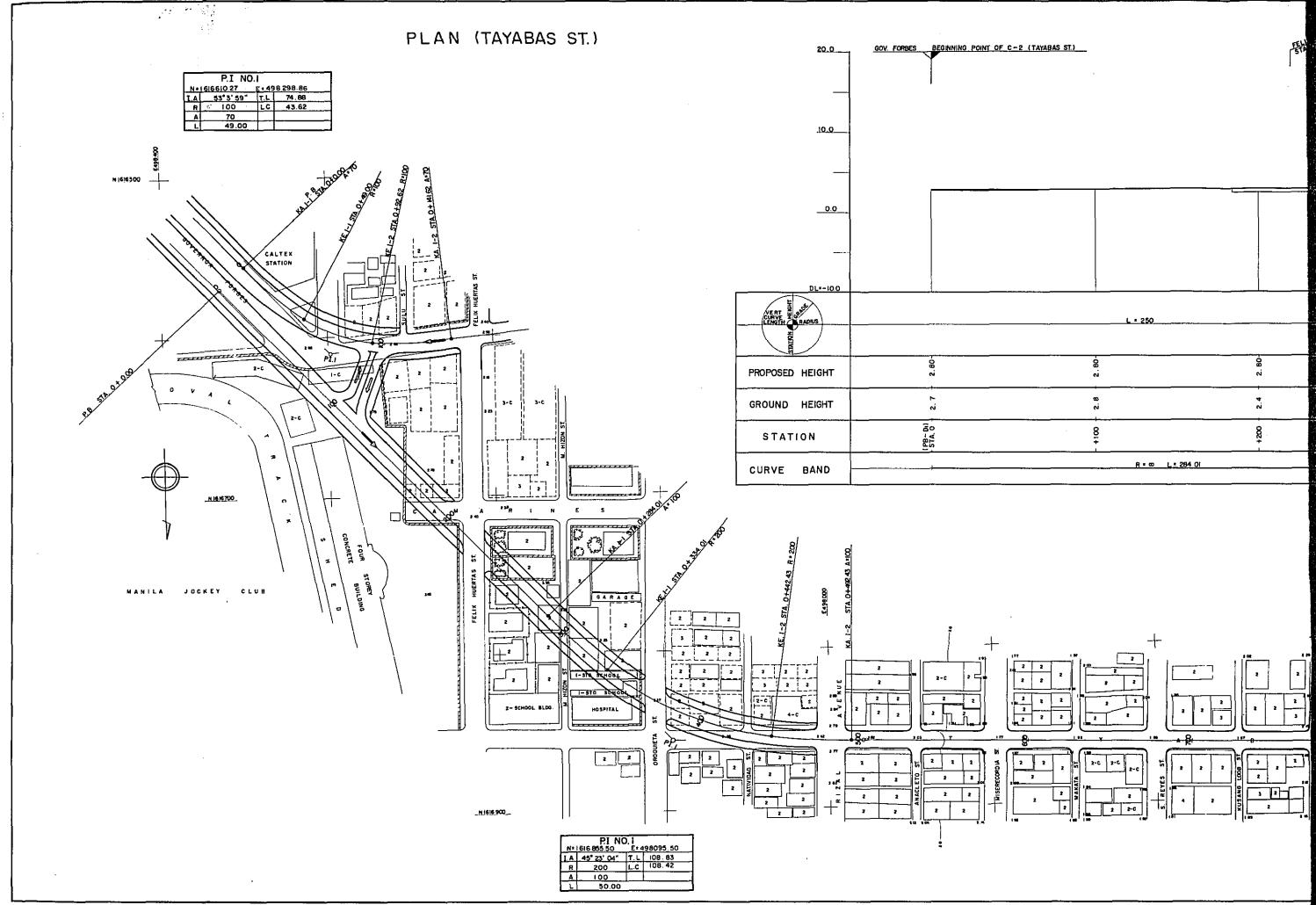
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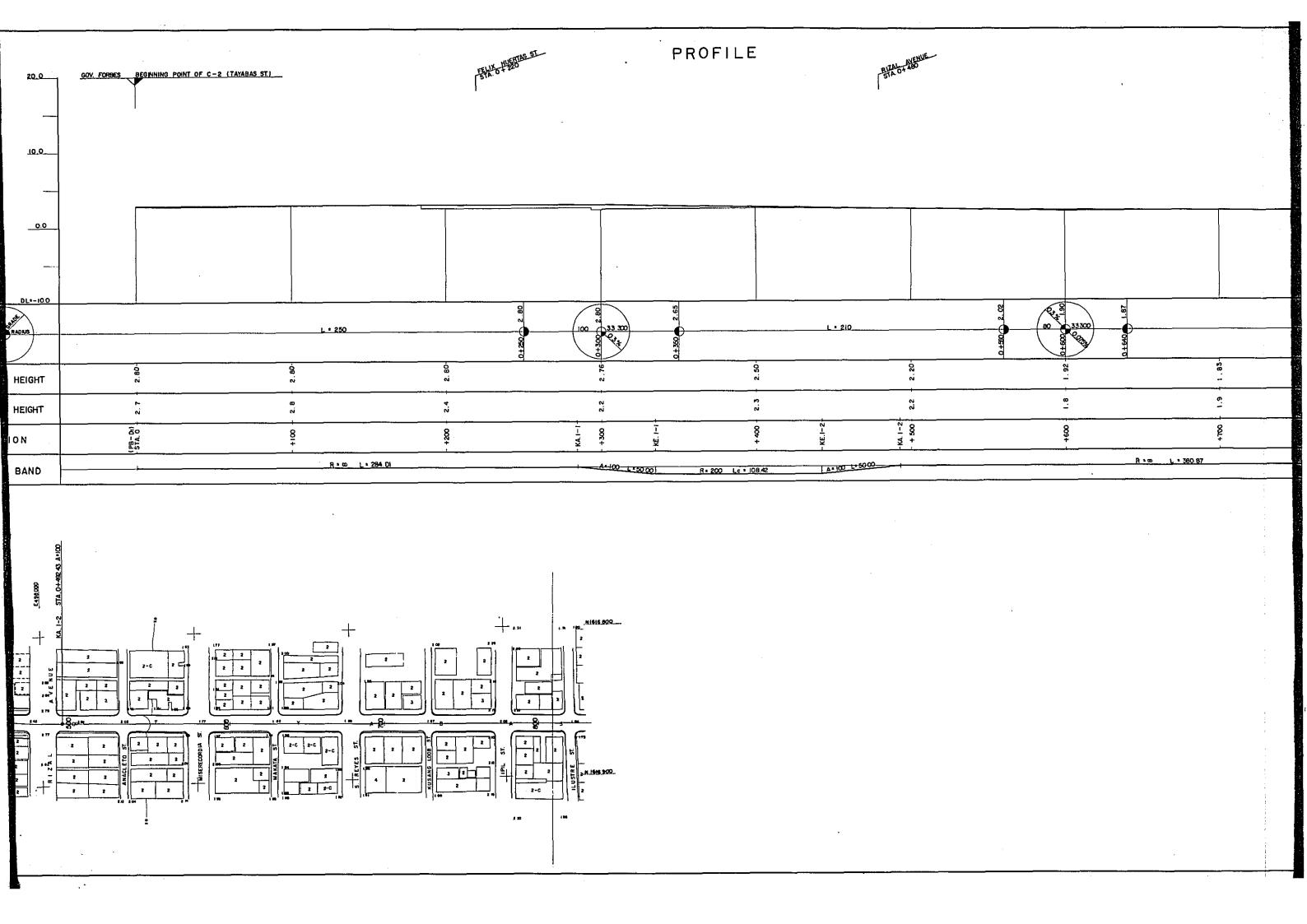






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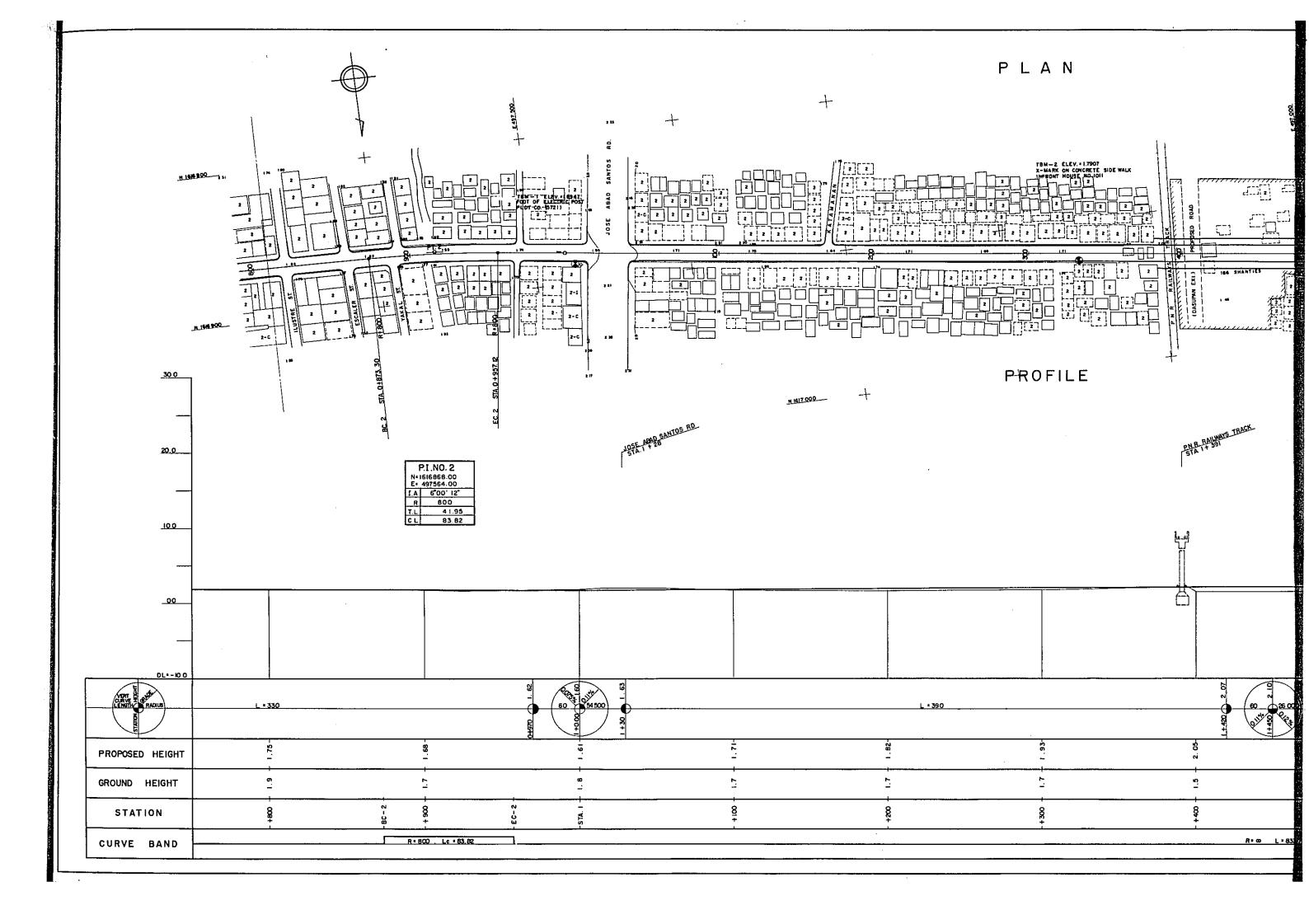
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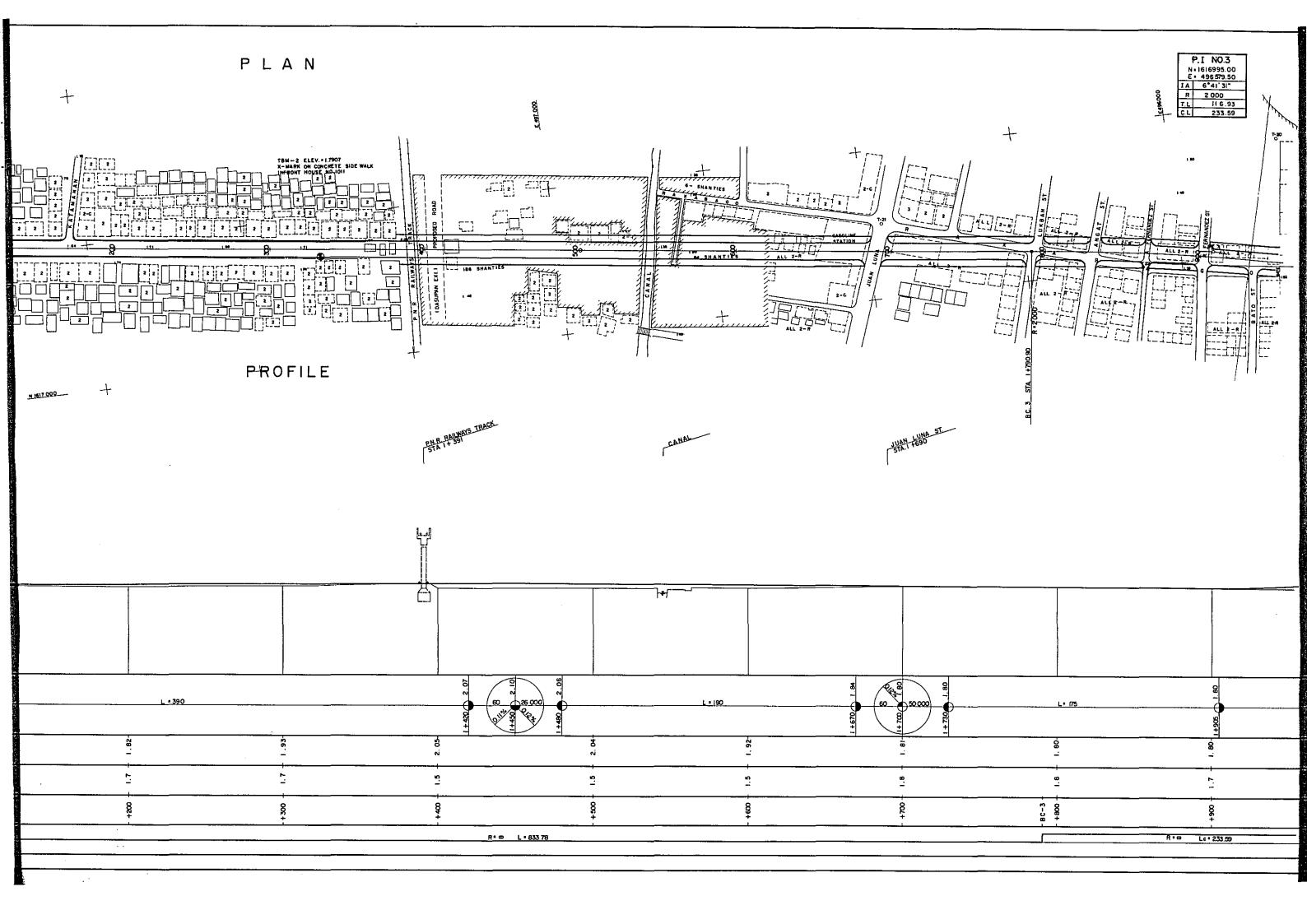
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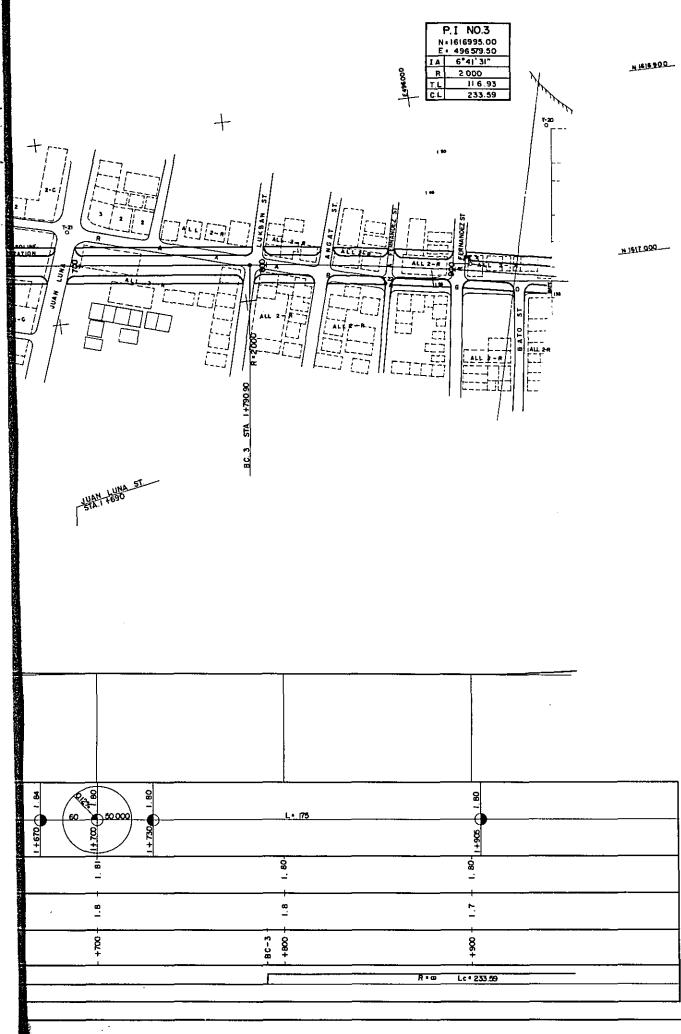
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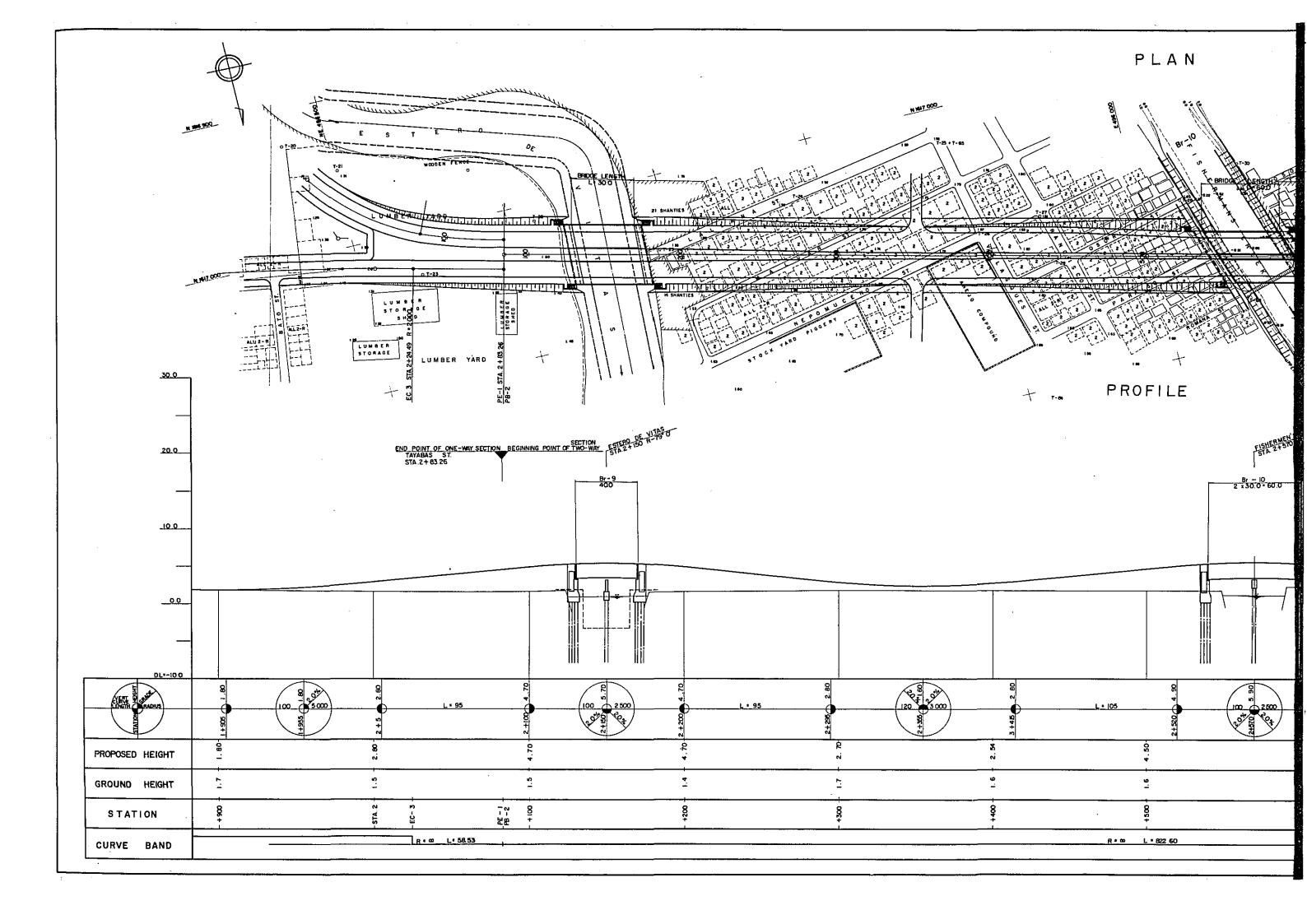


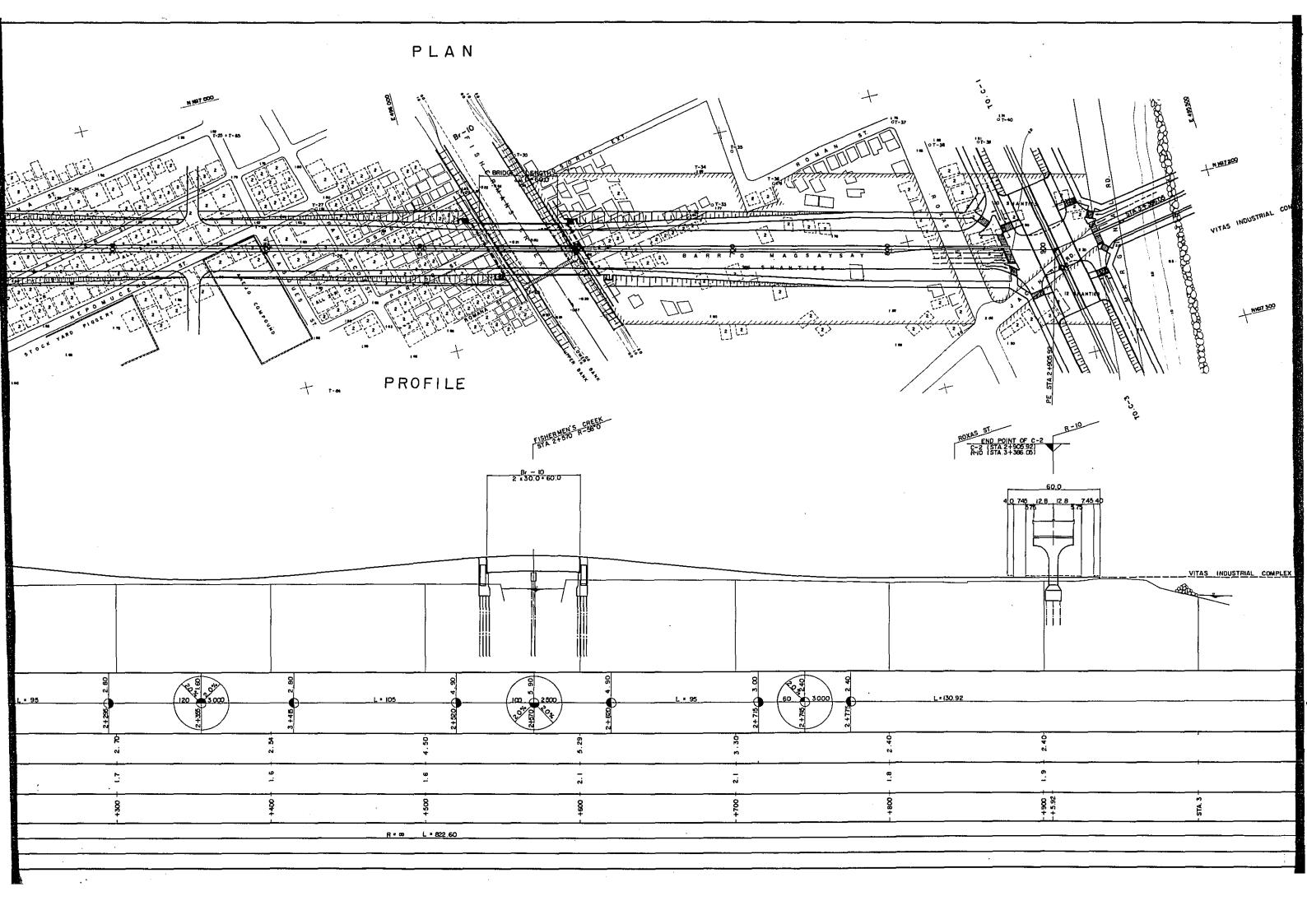


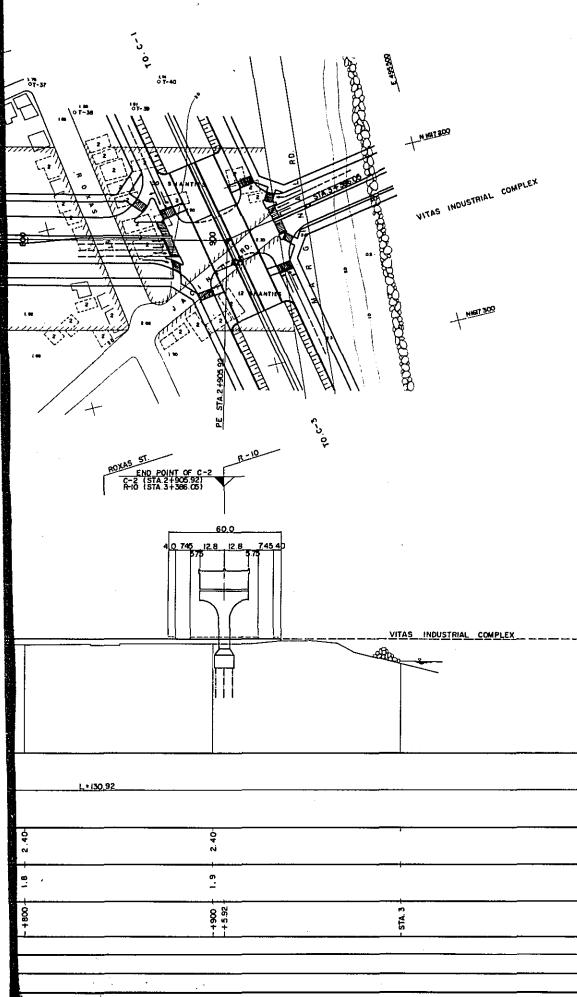


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REPUBLIC OF THE PHILIPPINES METRO MANILA TRANSPORT R-10 FEASIBILITY STUDY					
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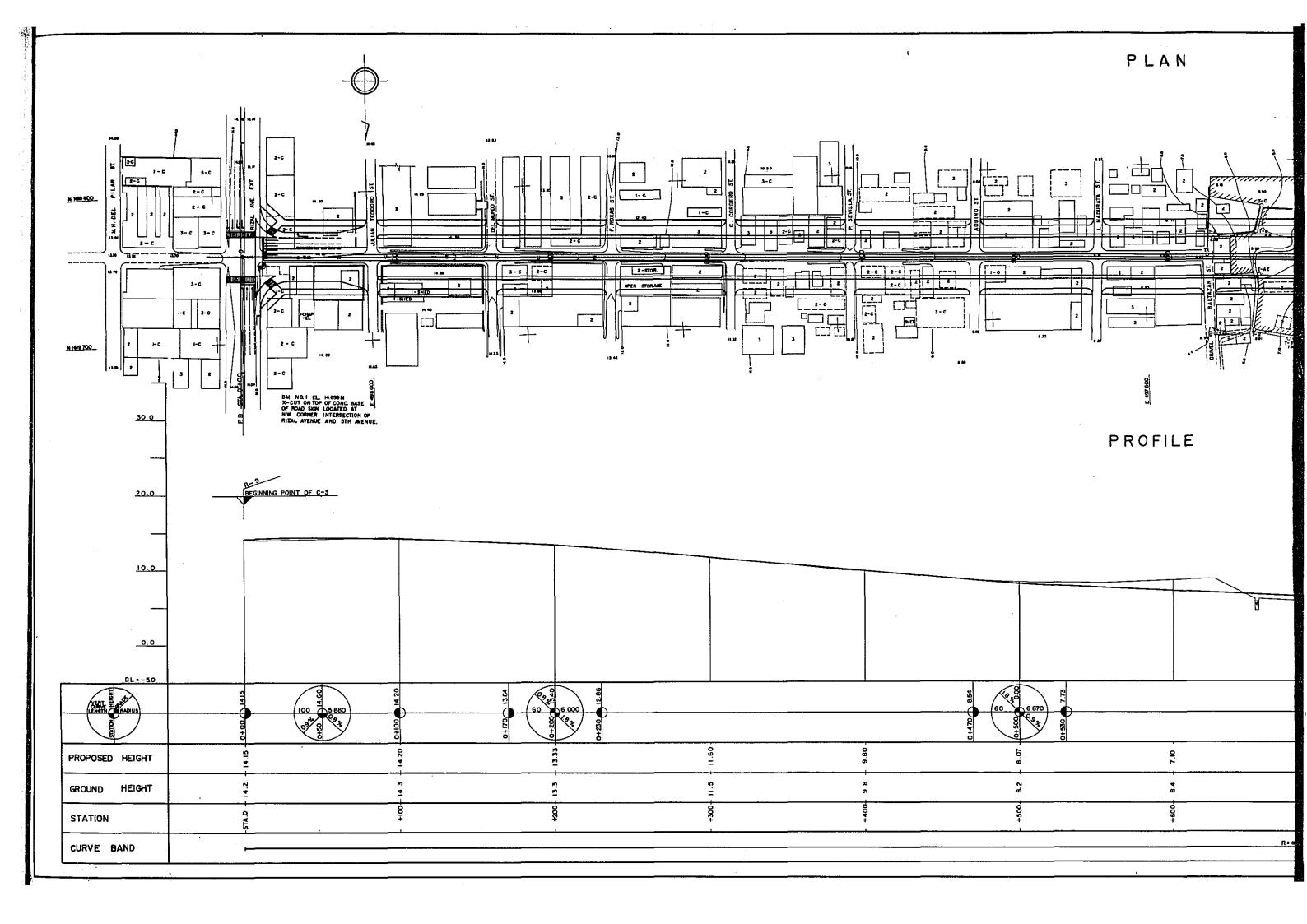


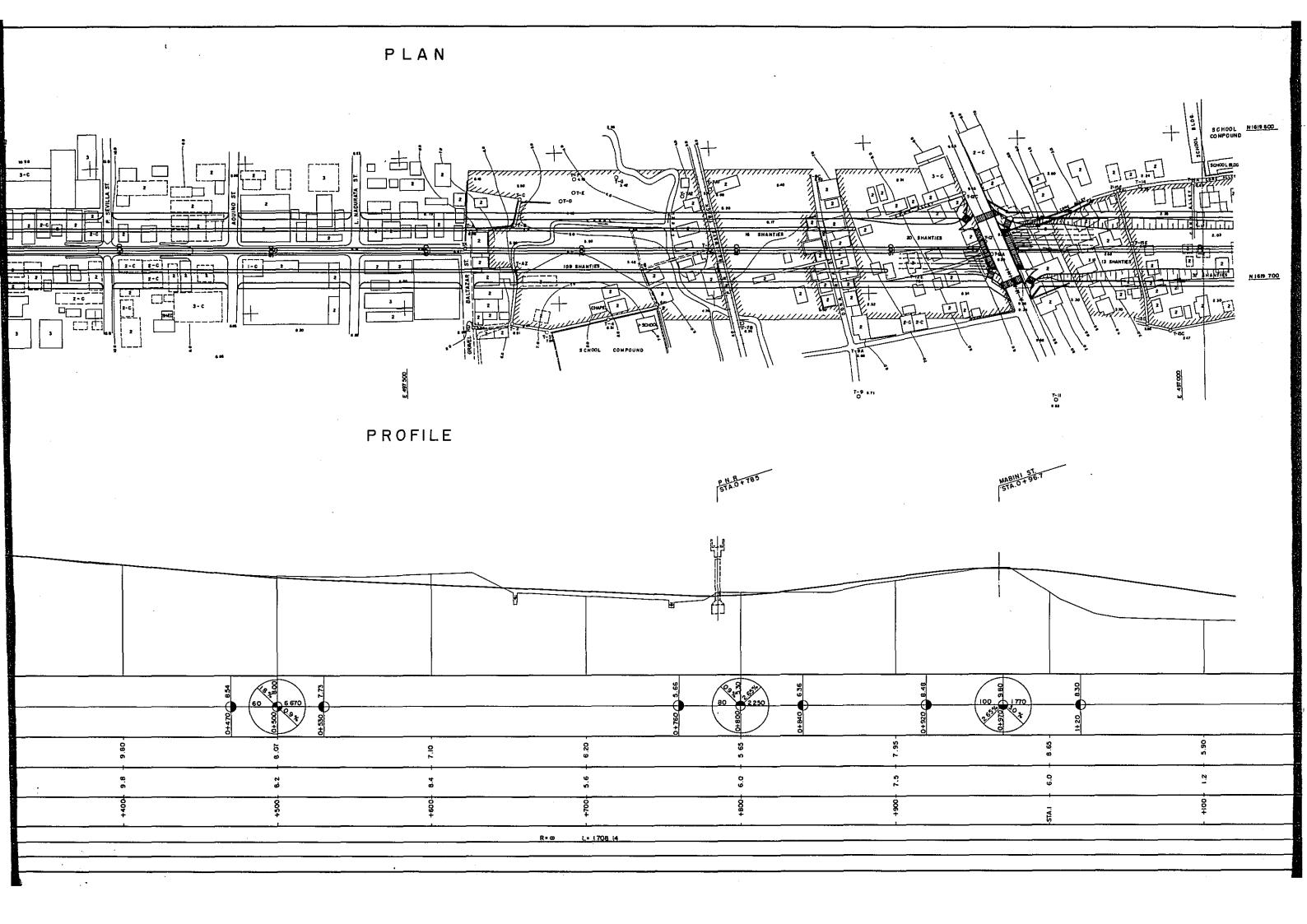


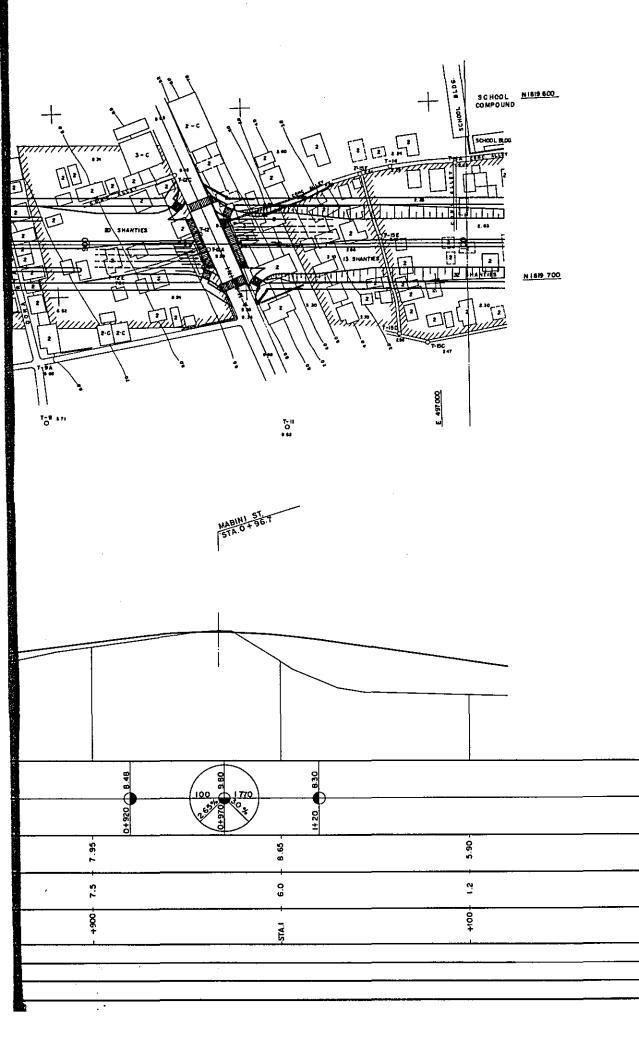


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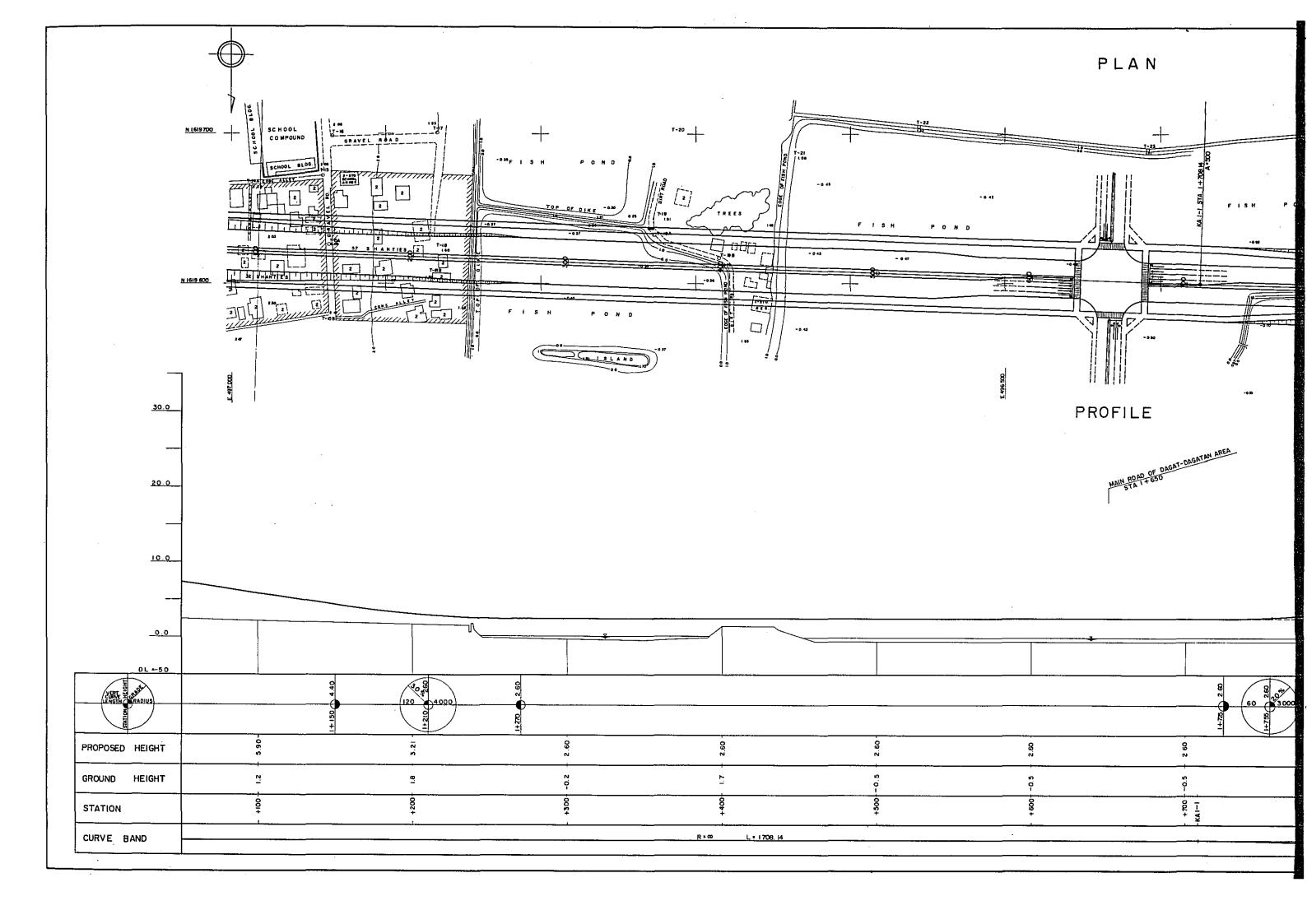
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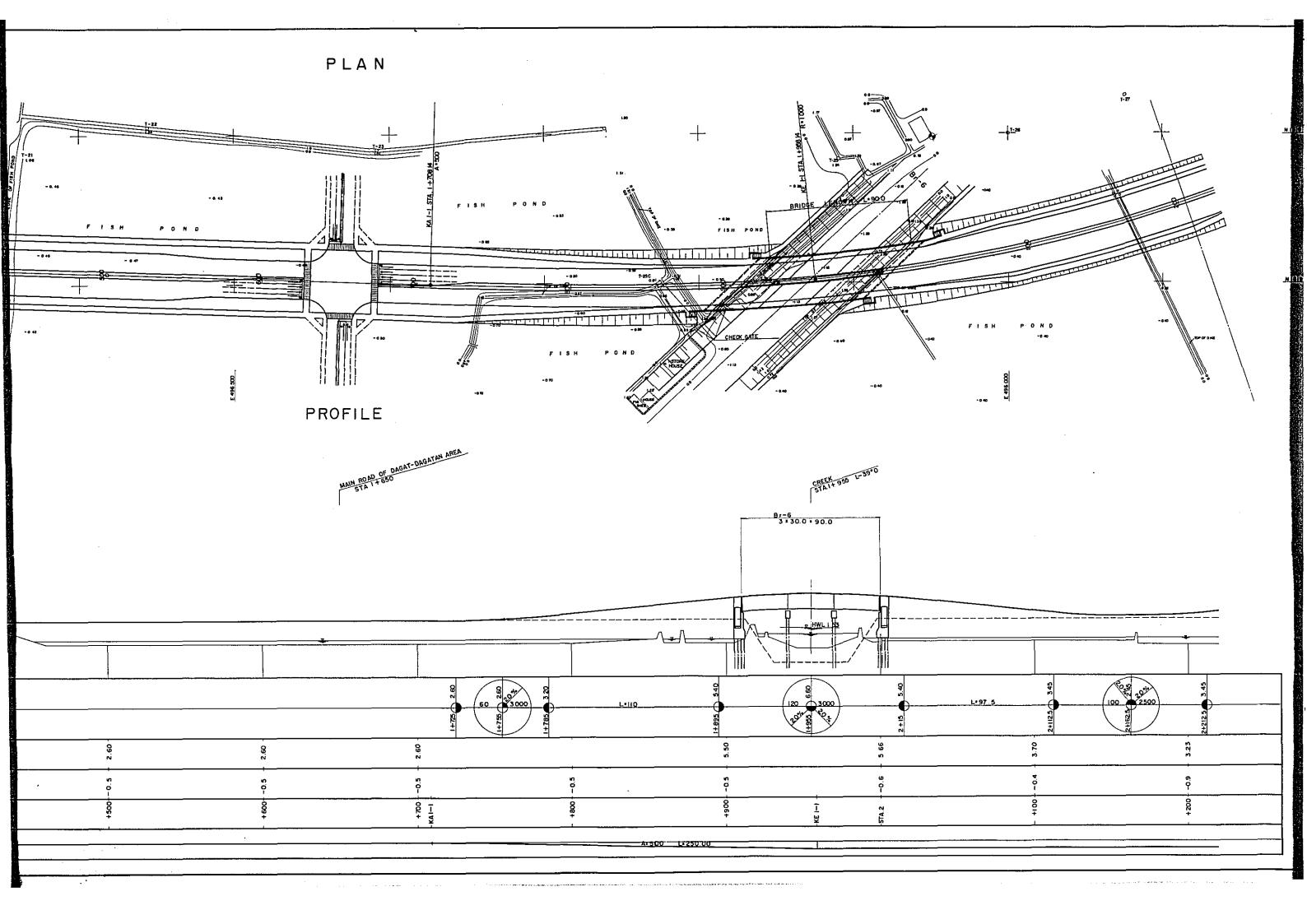


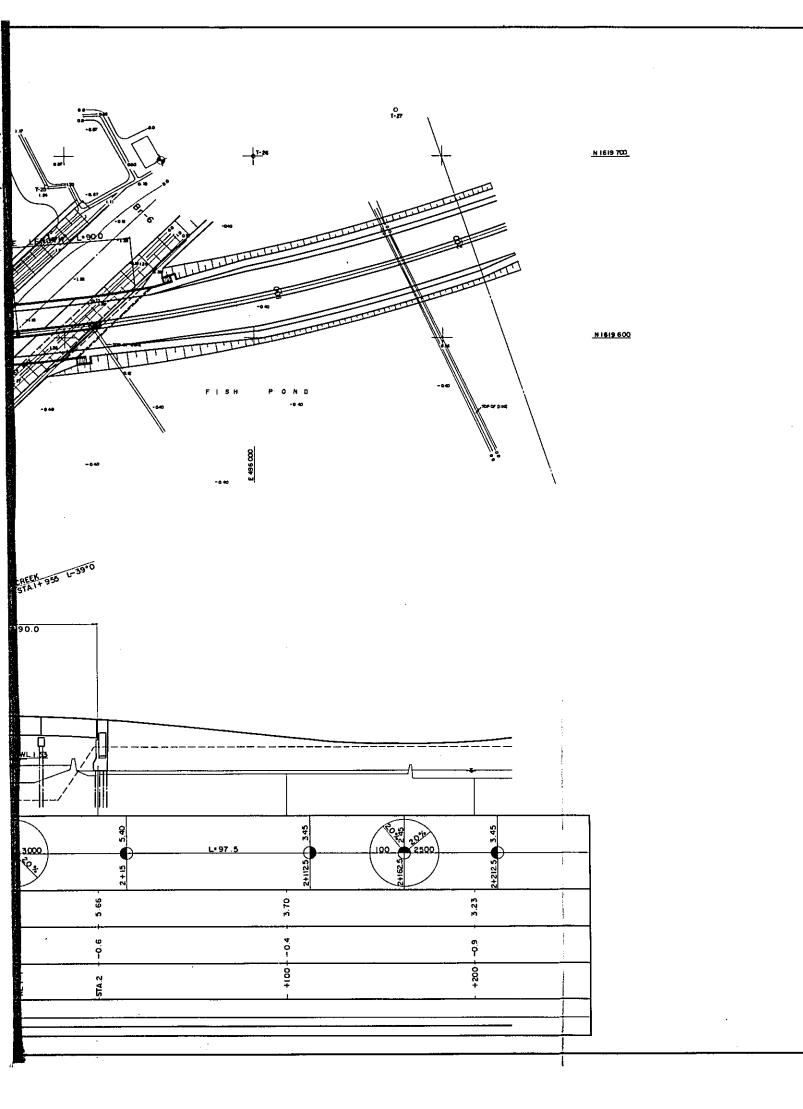




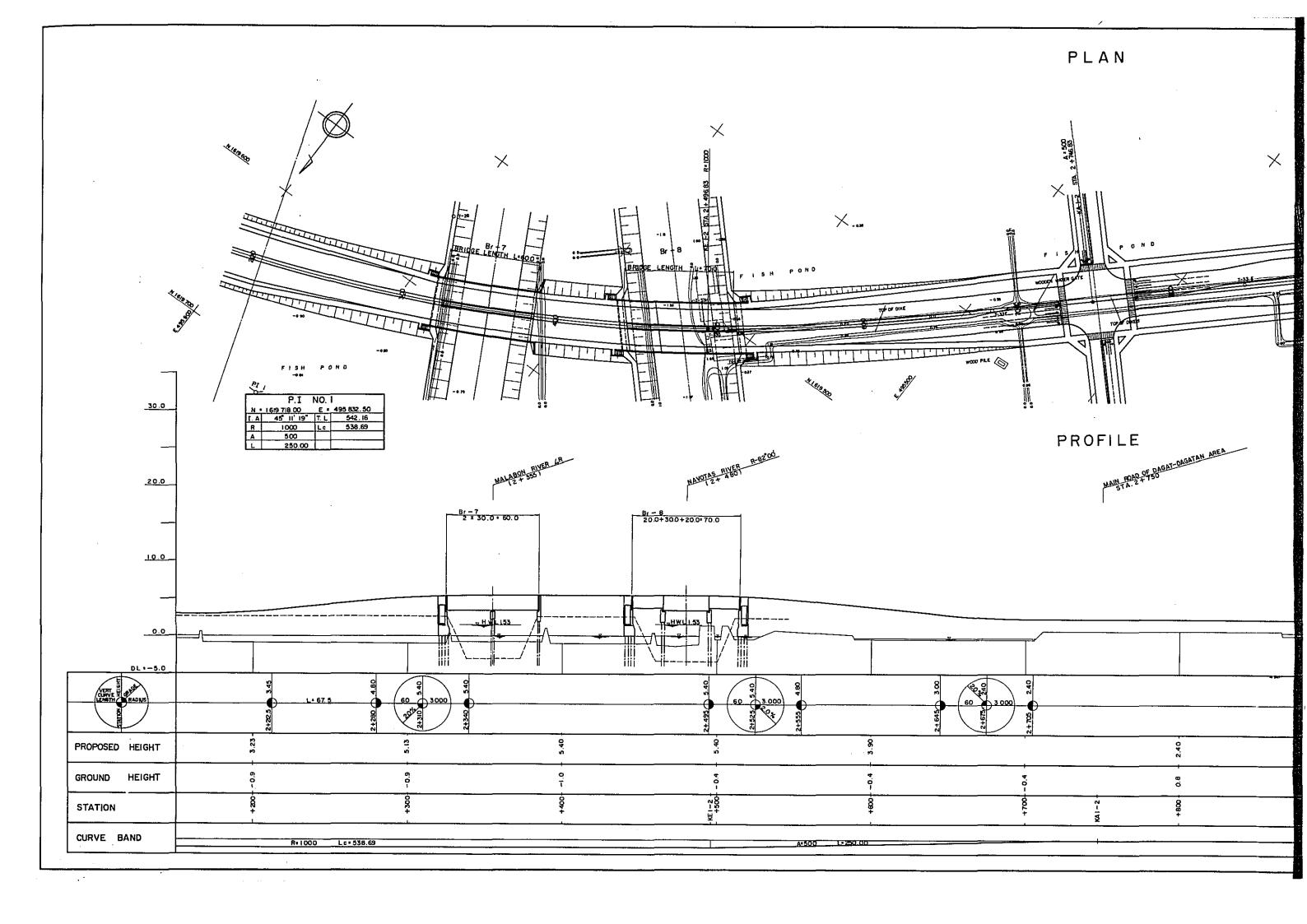
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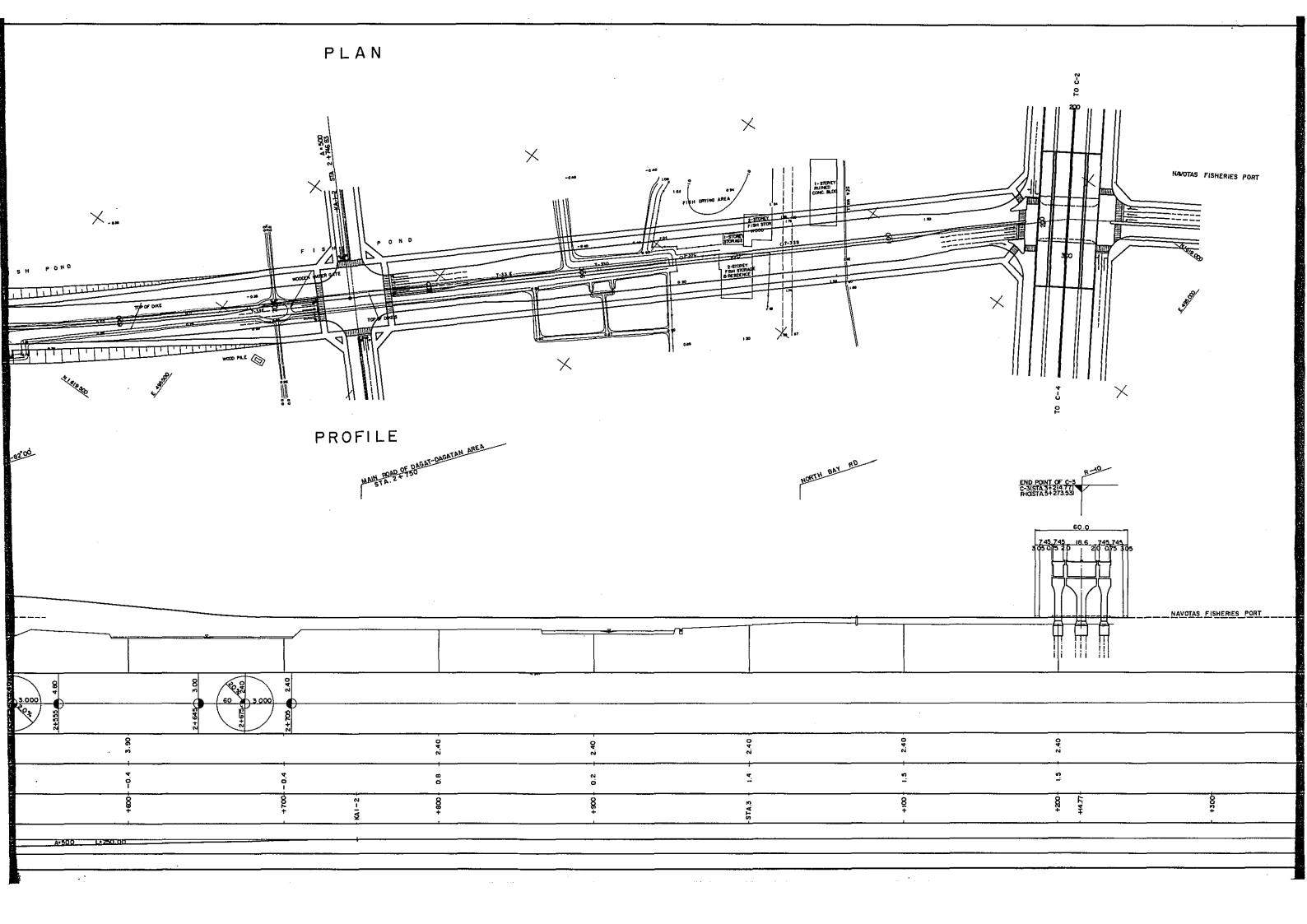


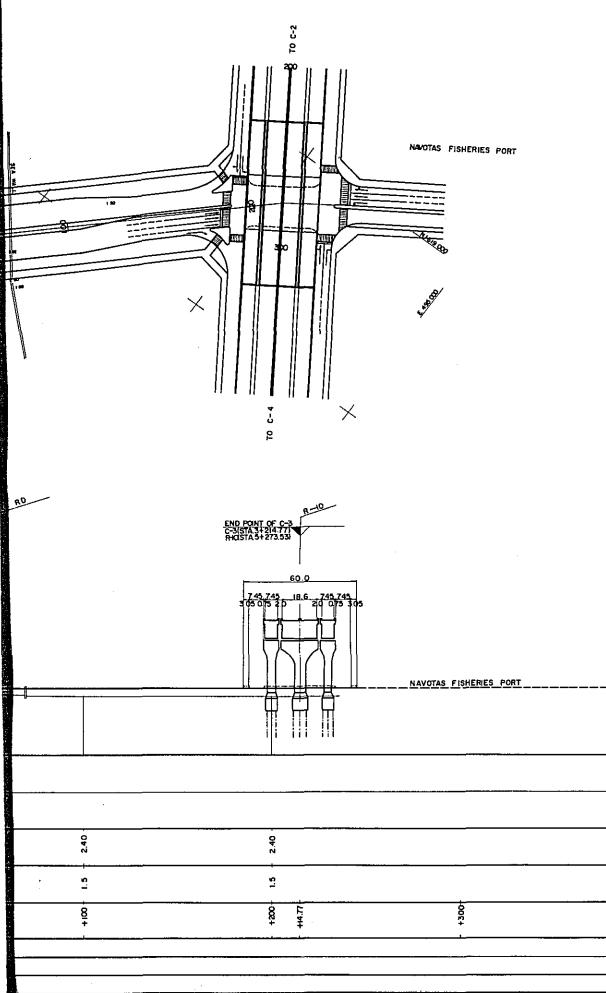




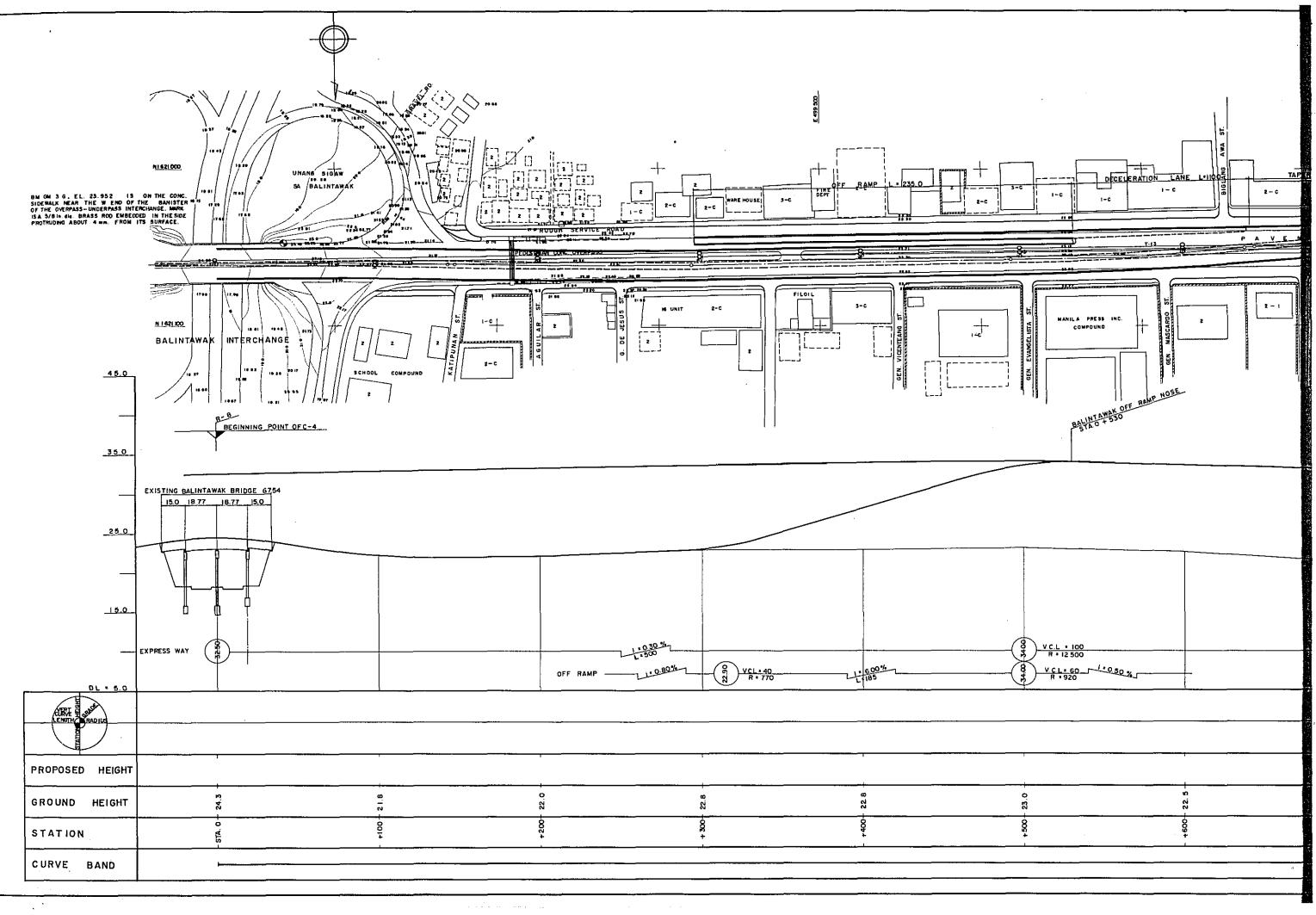
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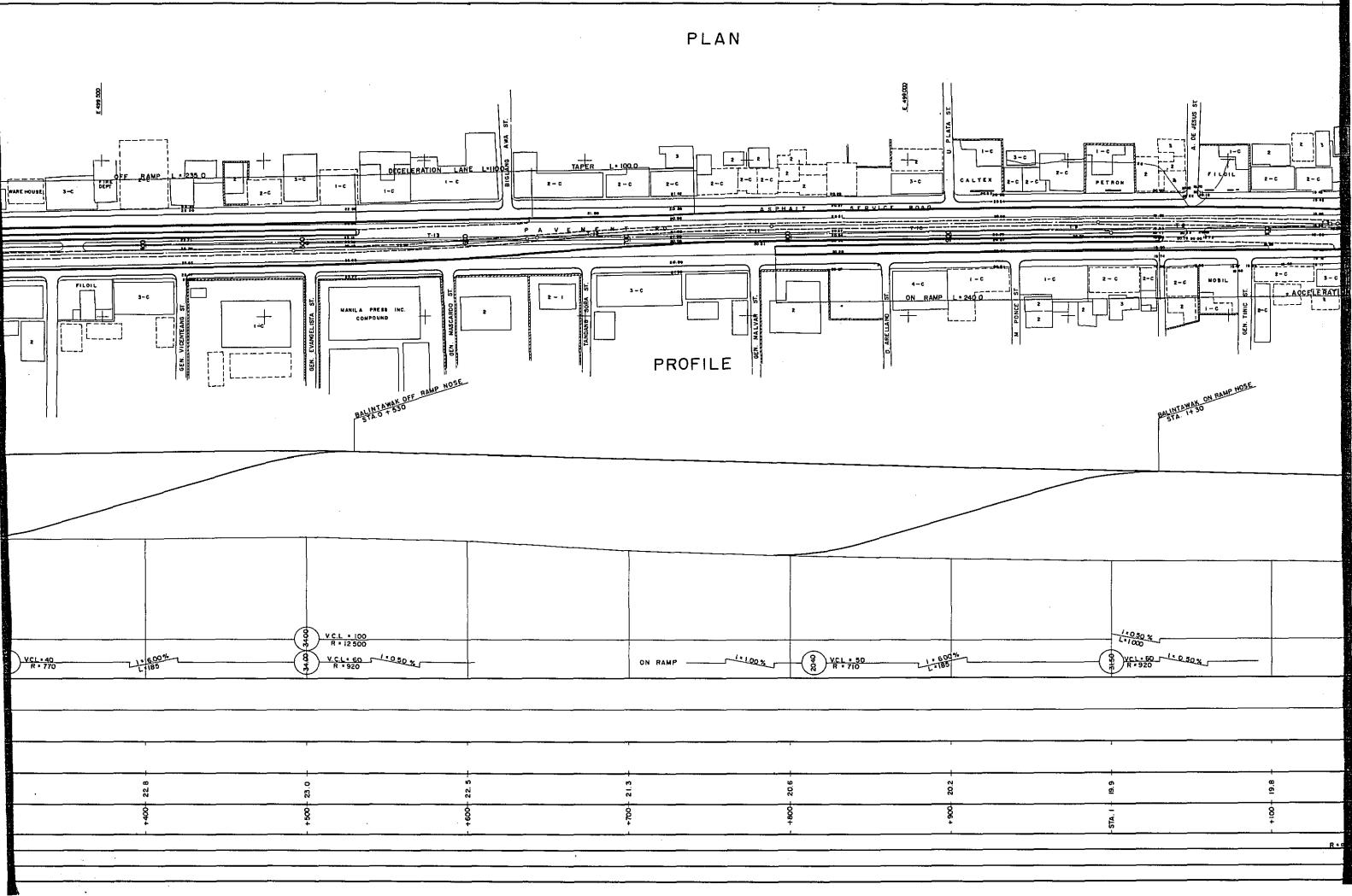


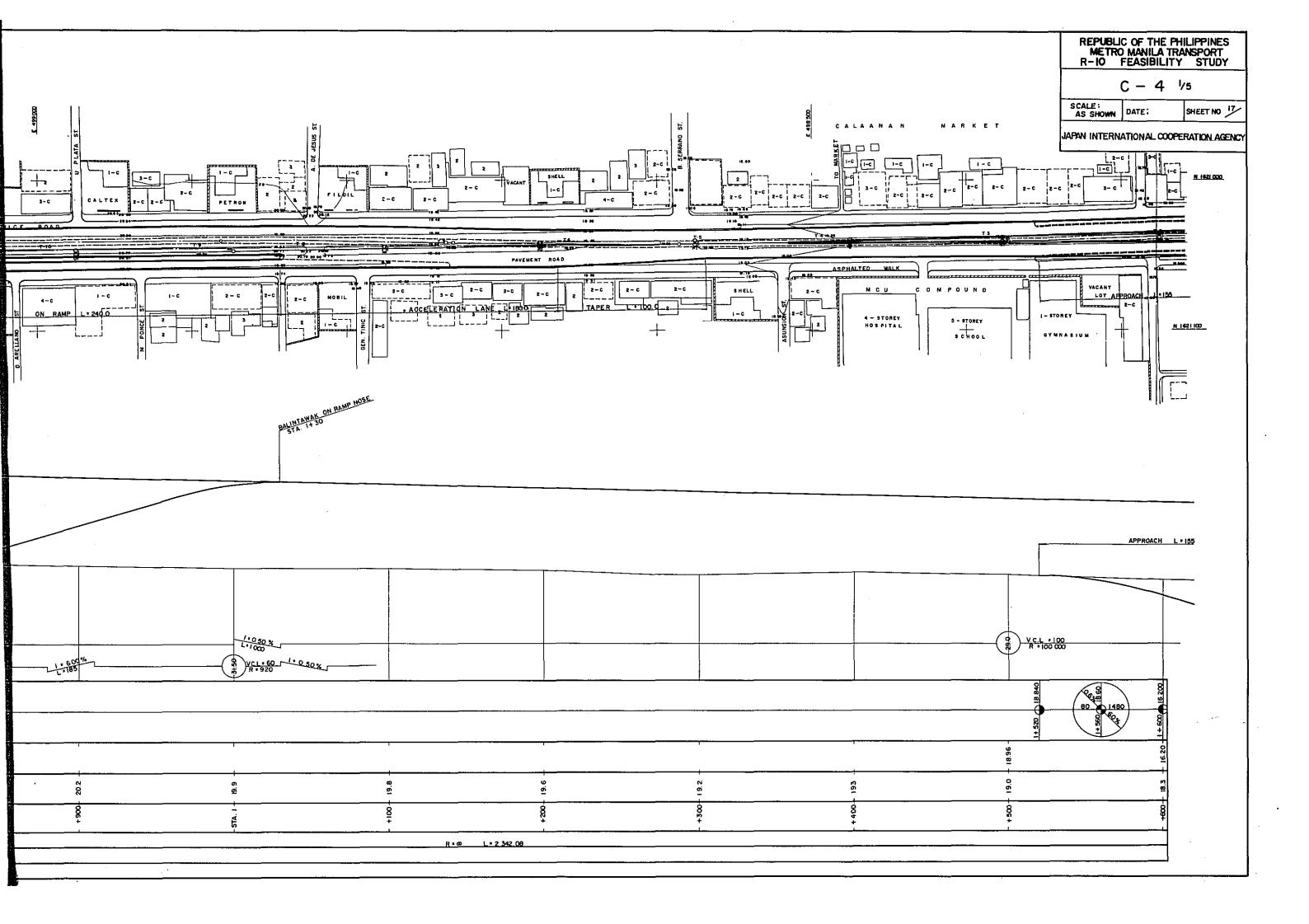


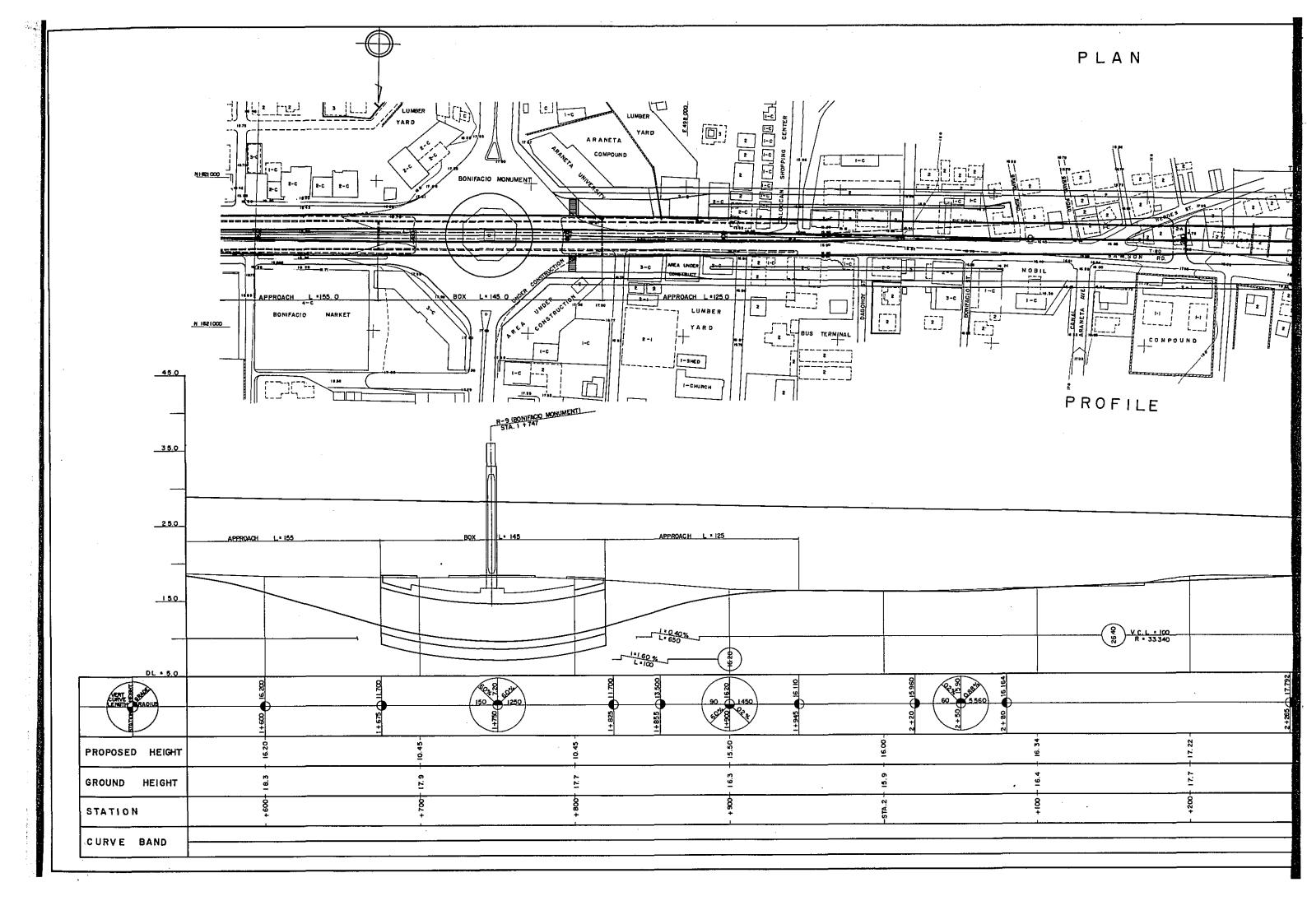


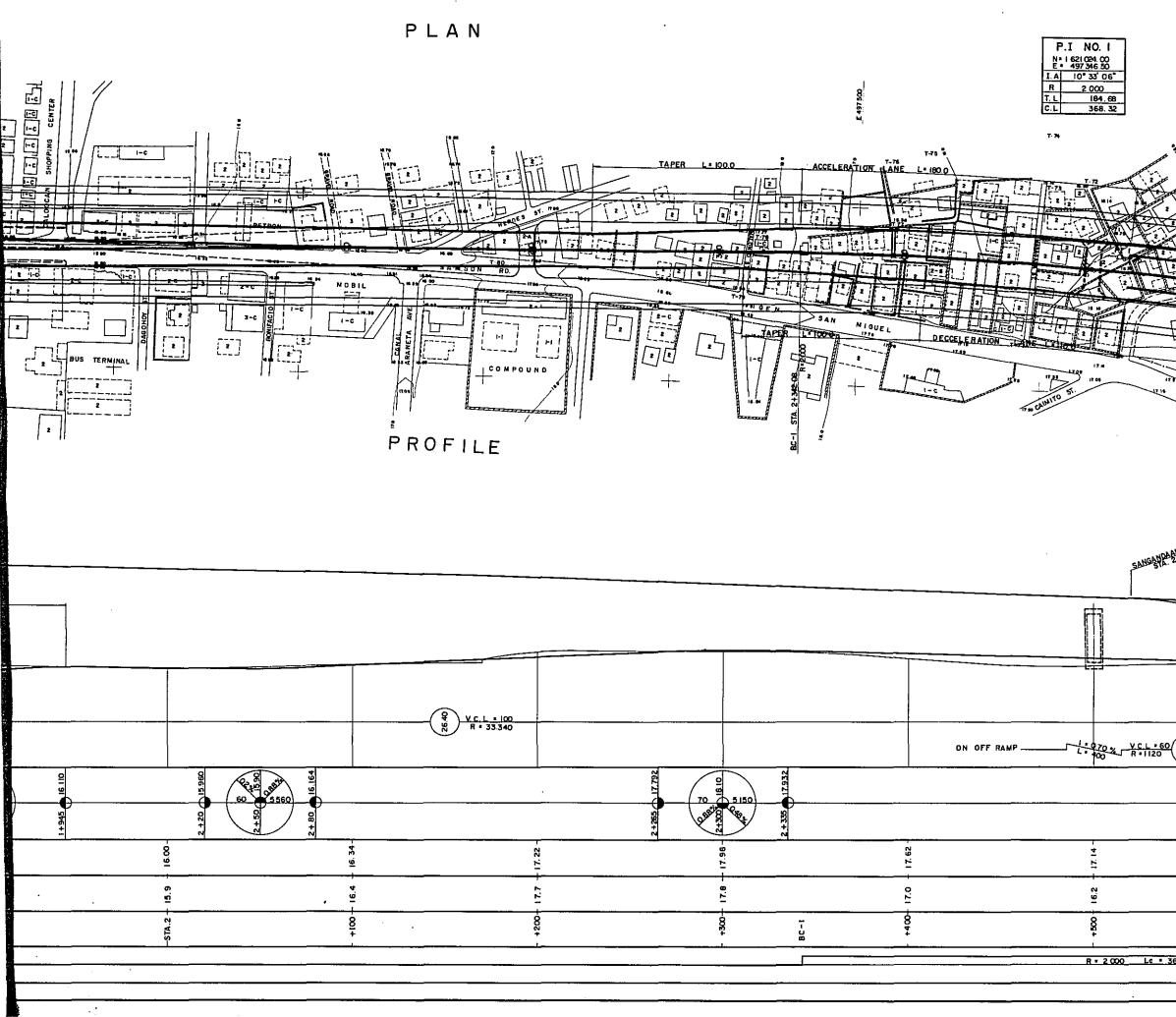
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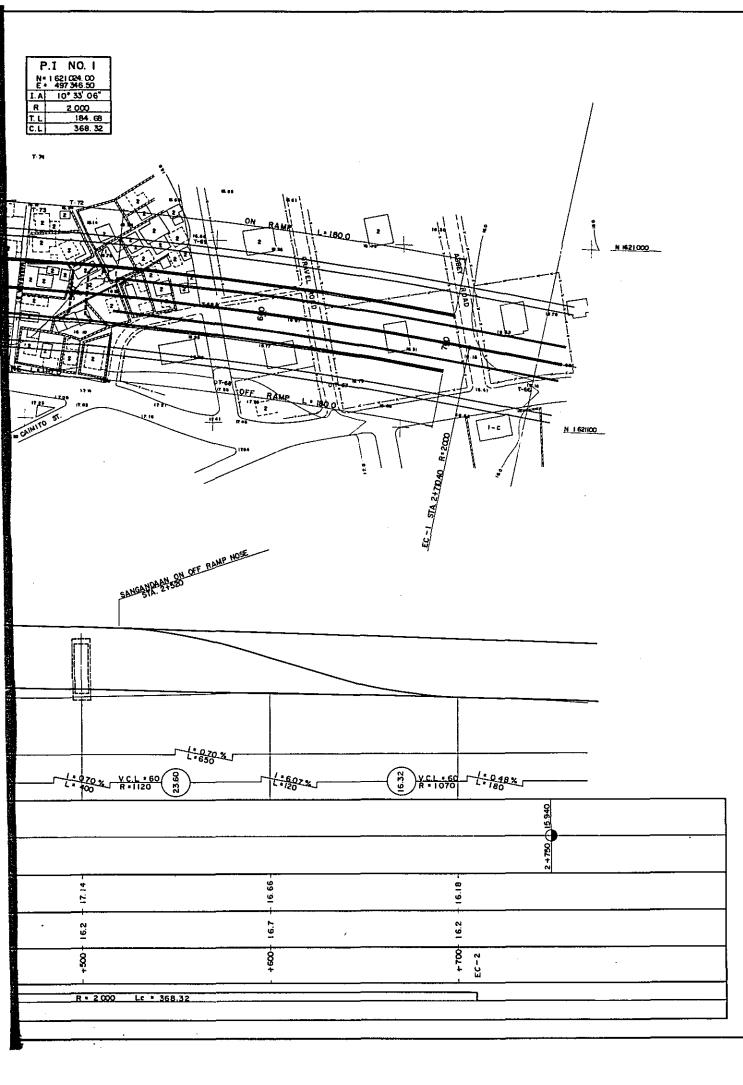




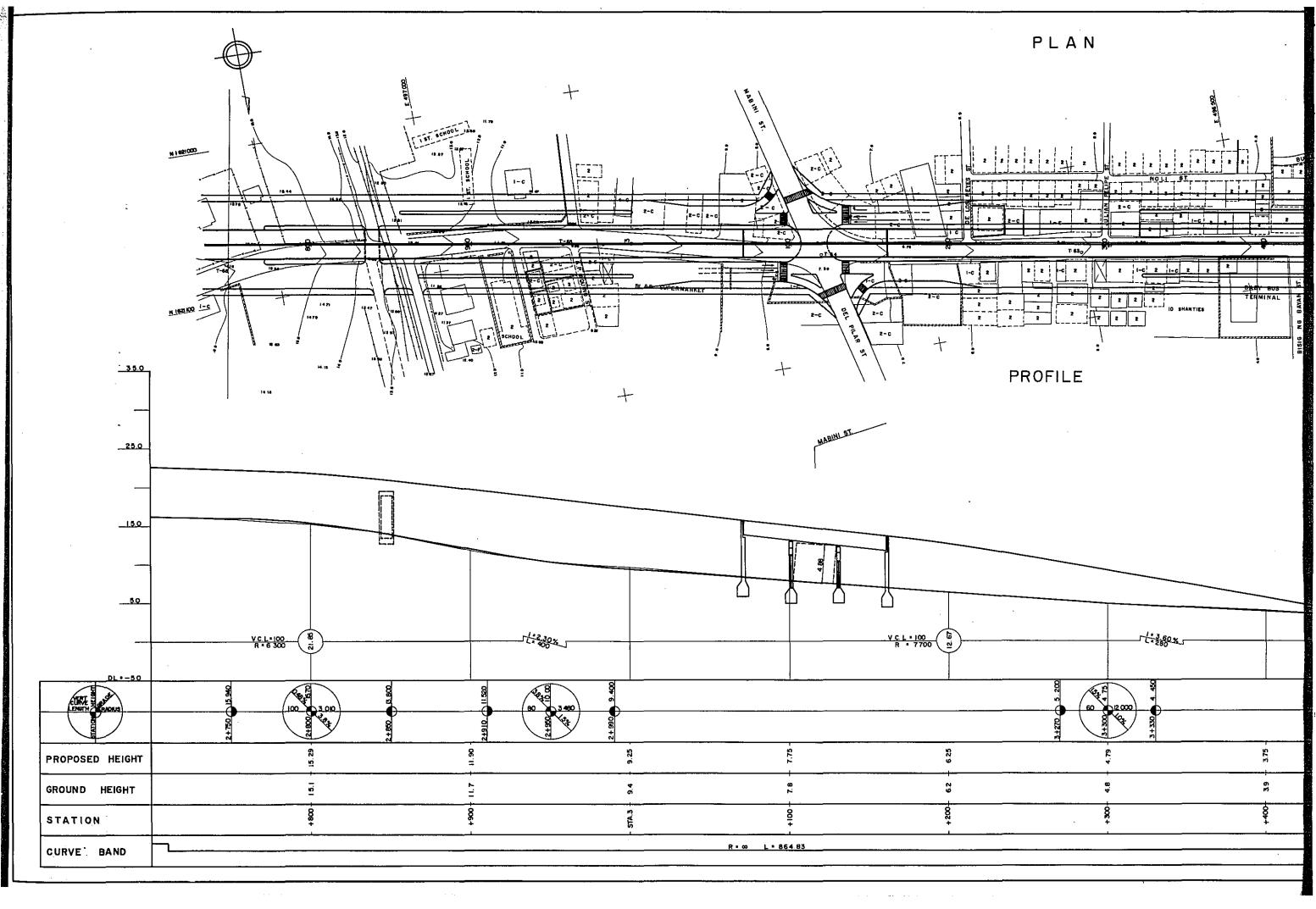


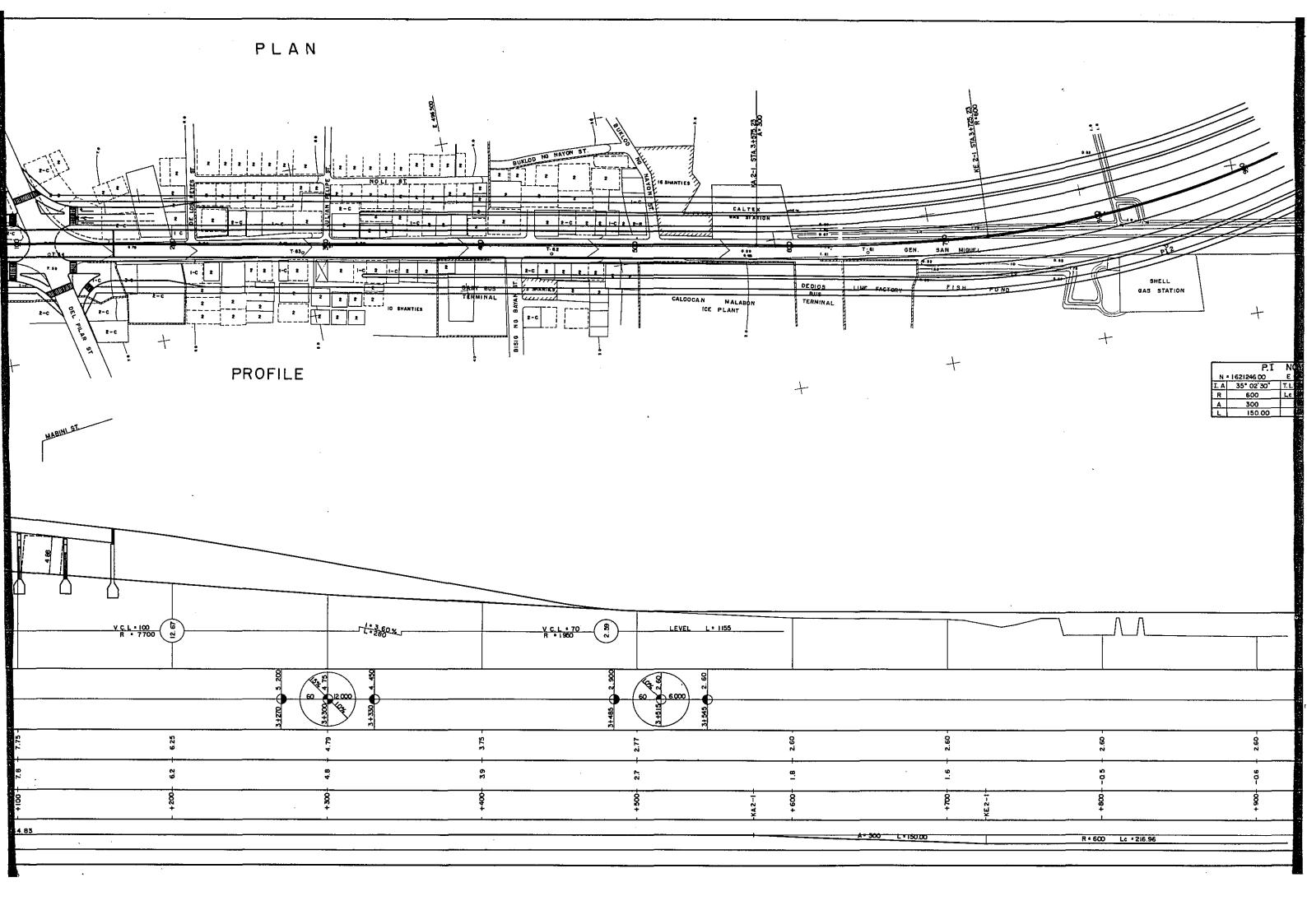


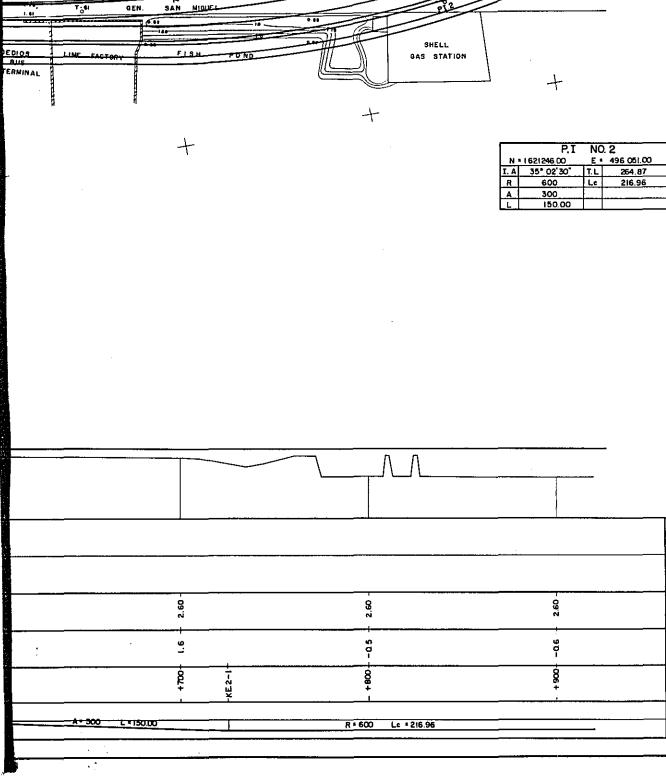
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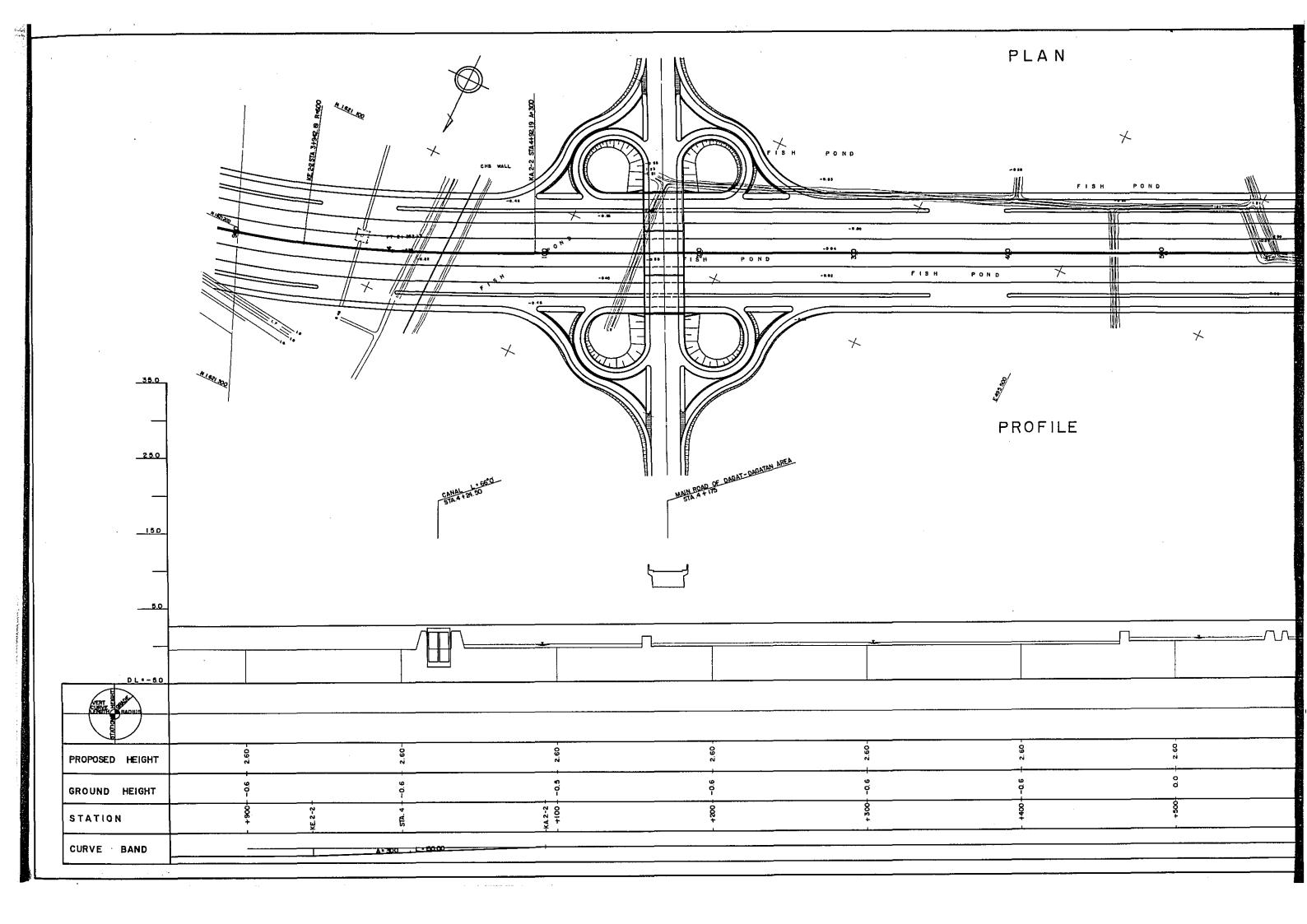
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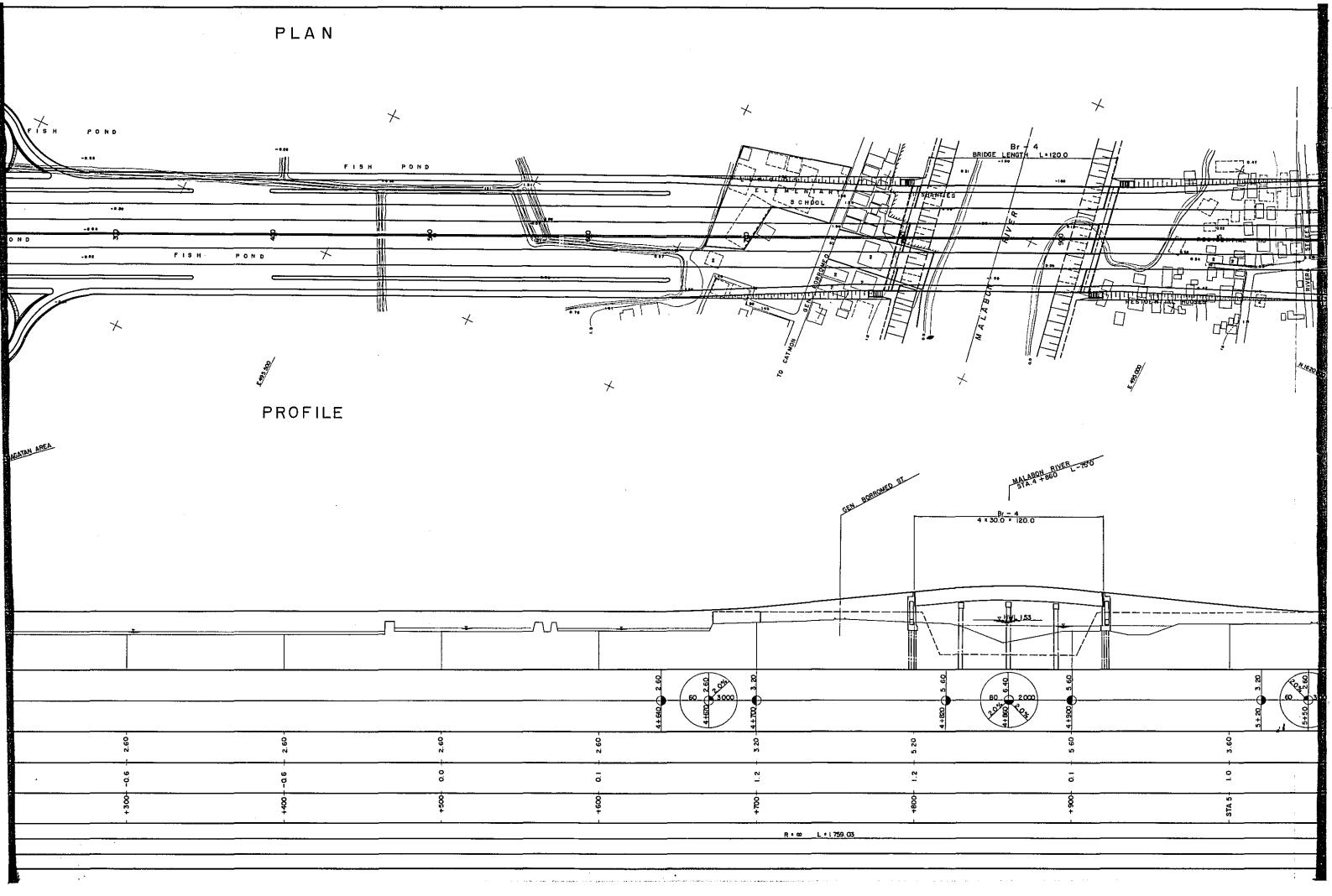
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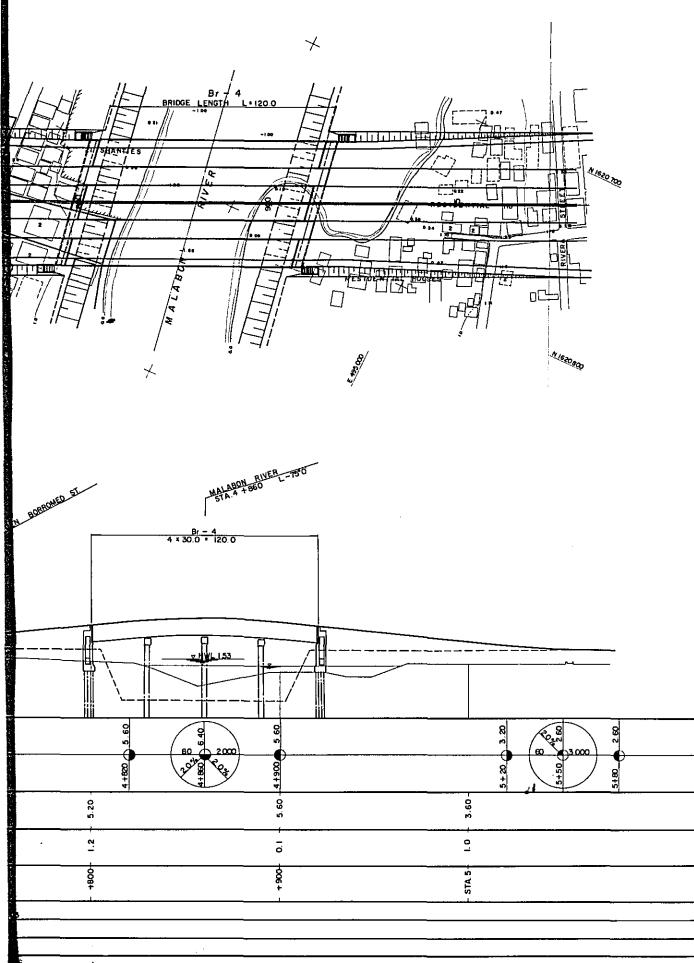
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REPUBLIC OF THE PHILIPPINES METRO MANILA TRANSPORT R-10 FEASIBILITY STUDY			
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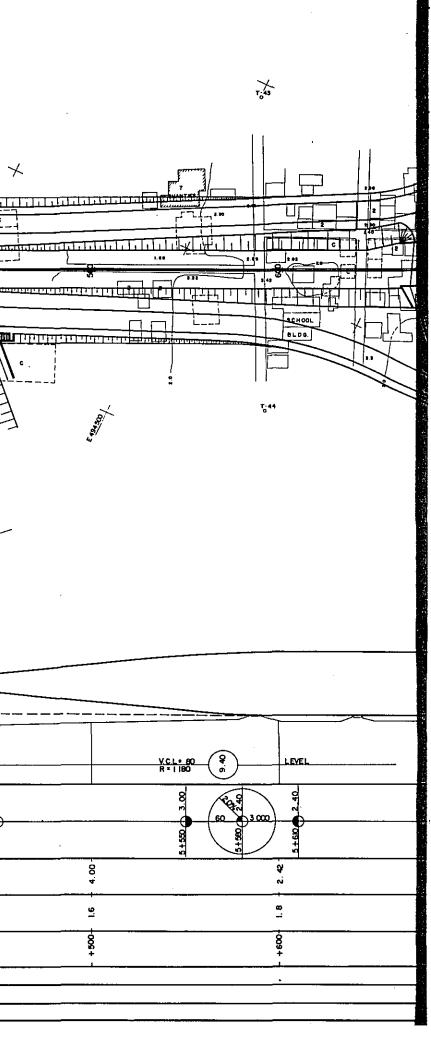


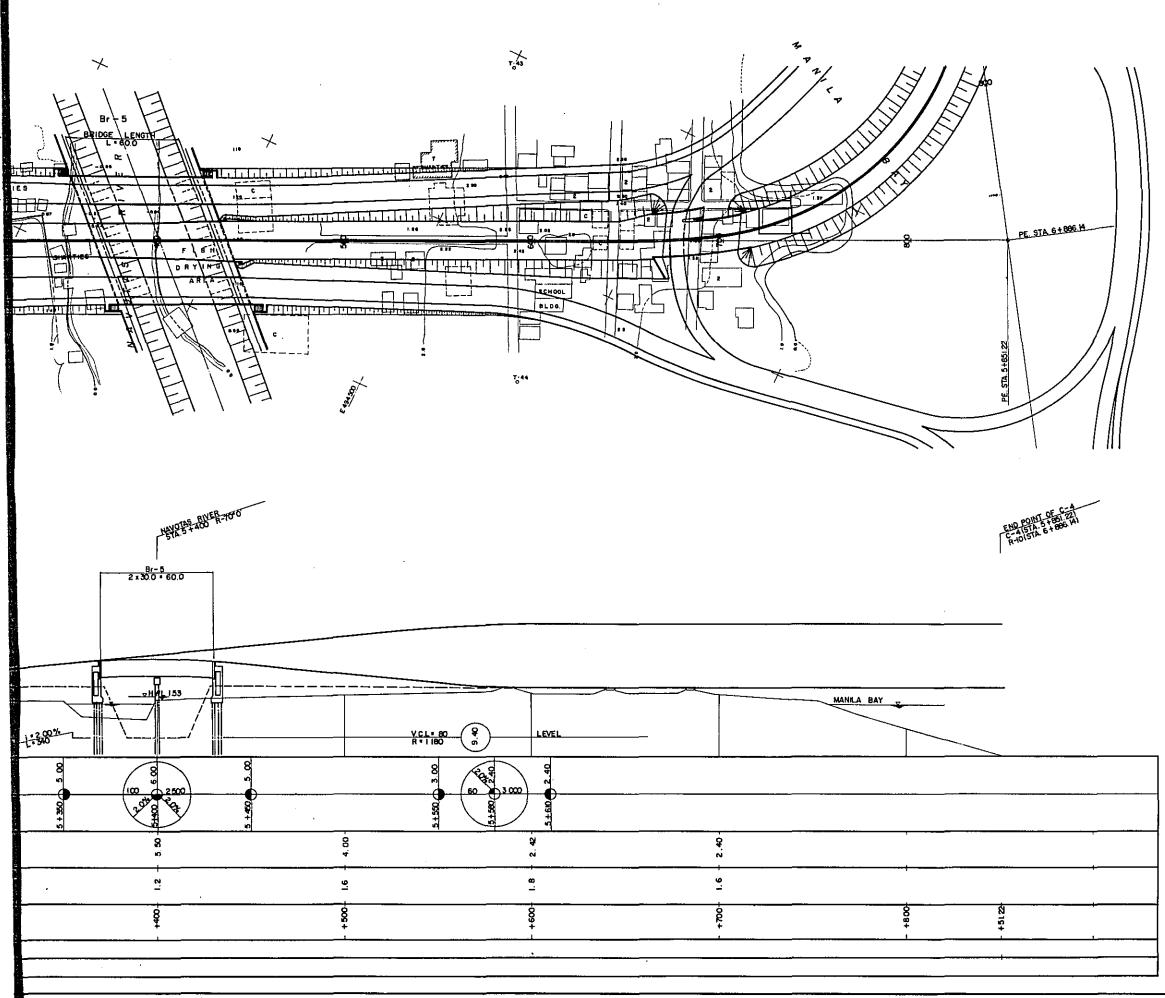
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REPUBLIC OF THE PHILIPPINES METRO MANILA TRANSPORT R-IO FEASIBILITY STUDY				
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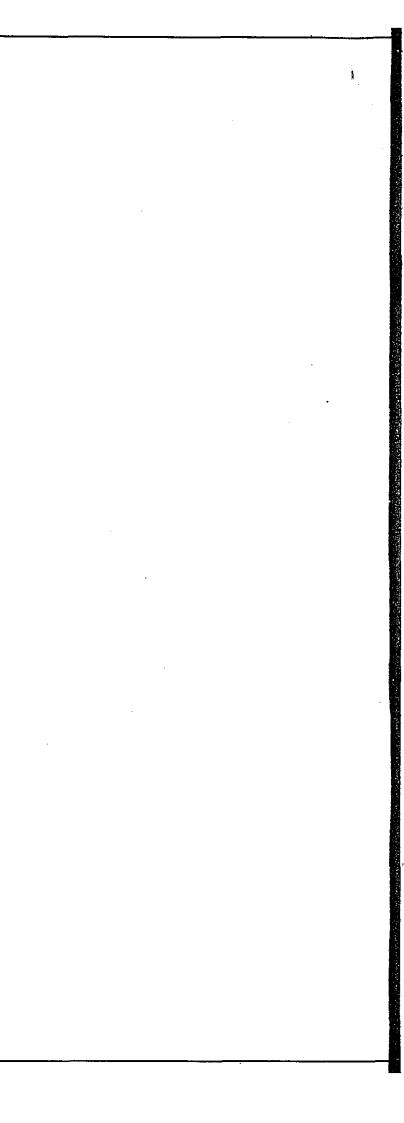
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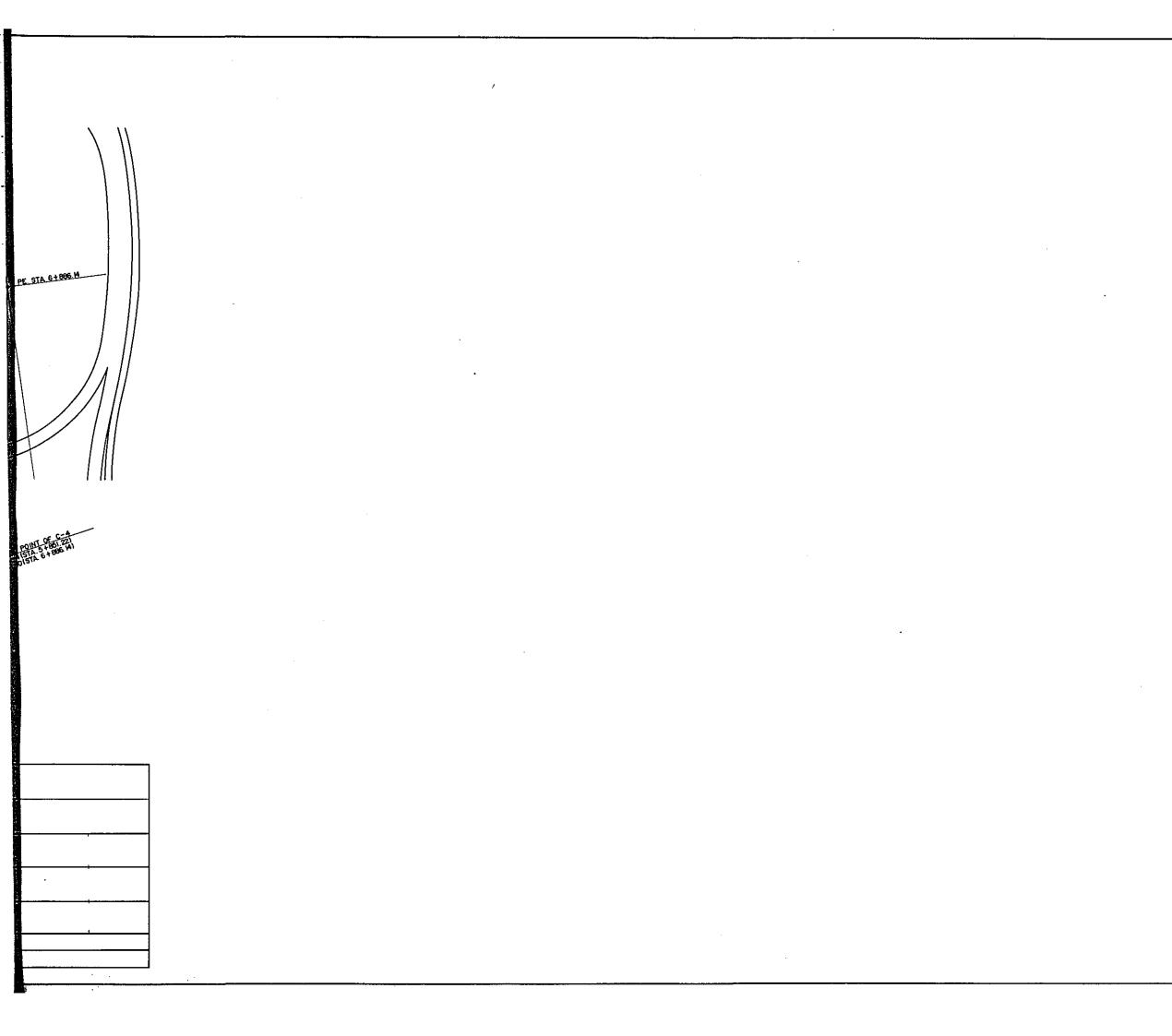
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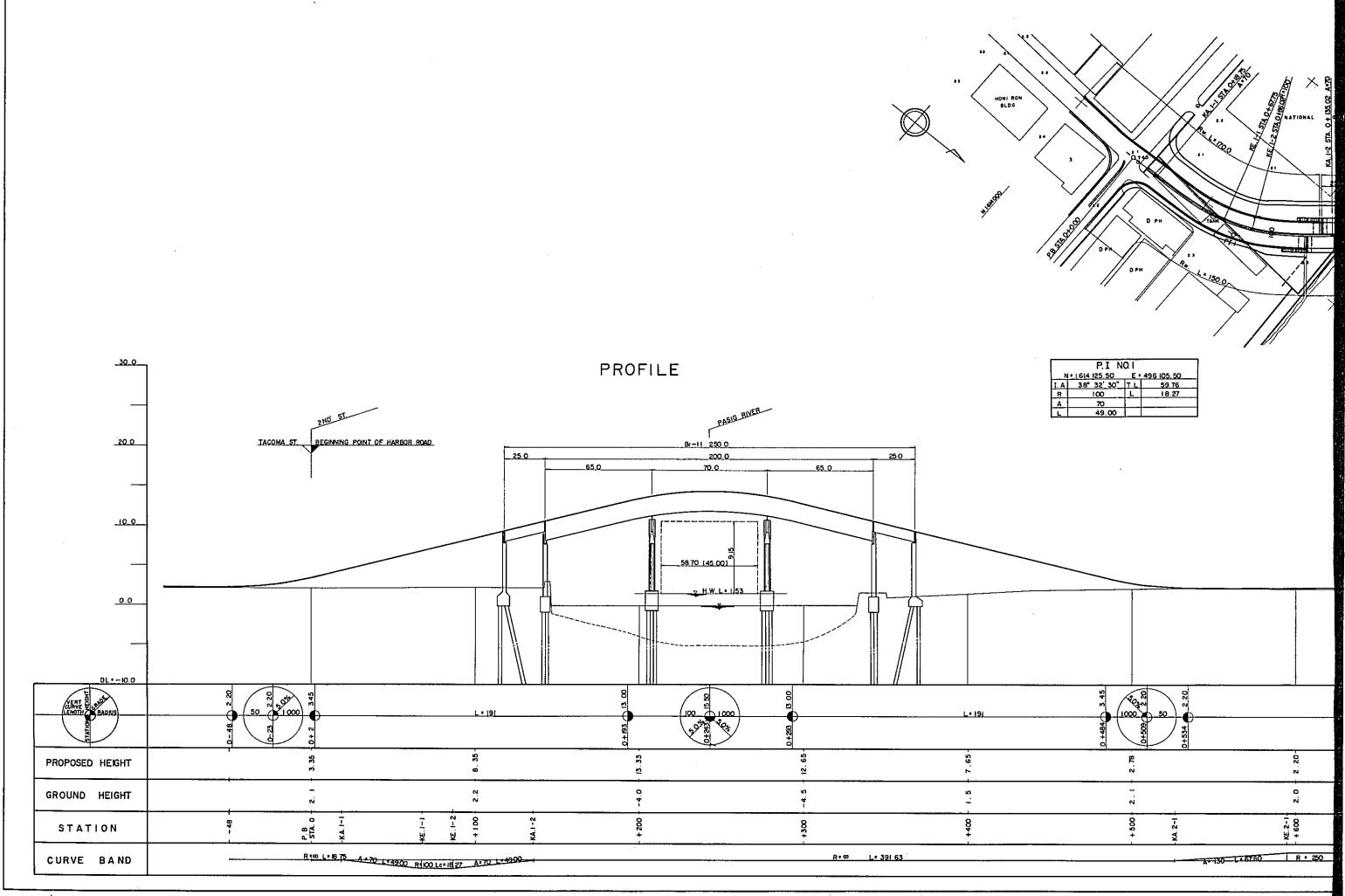


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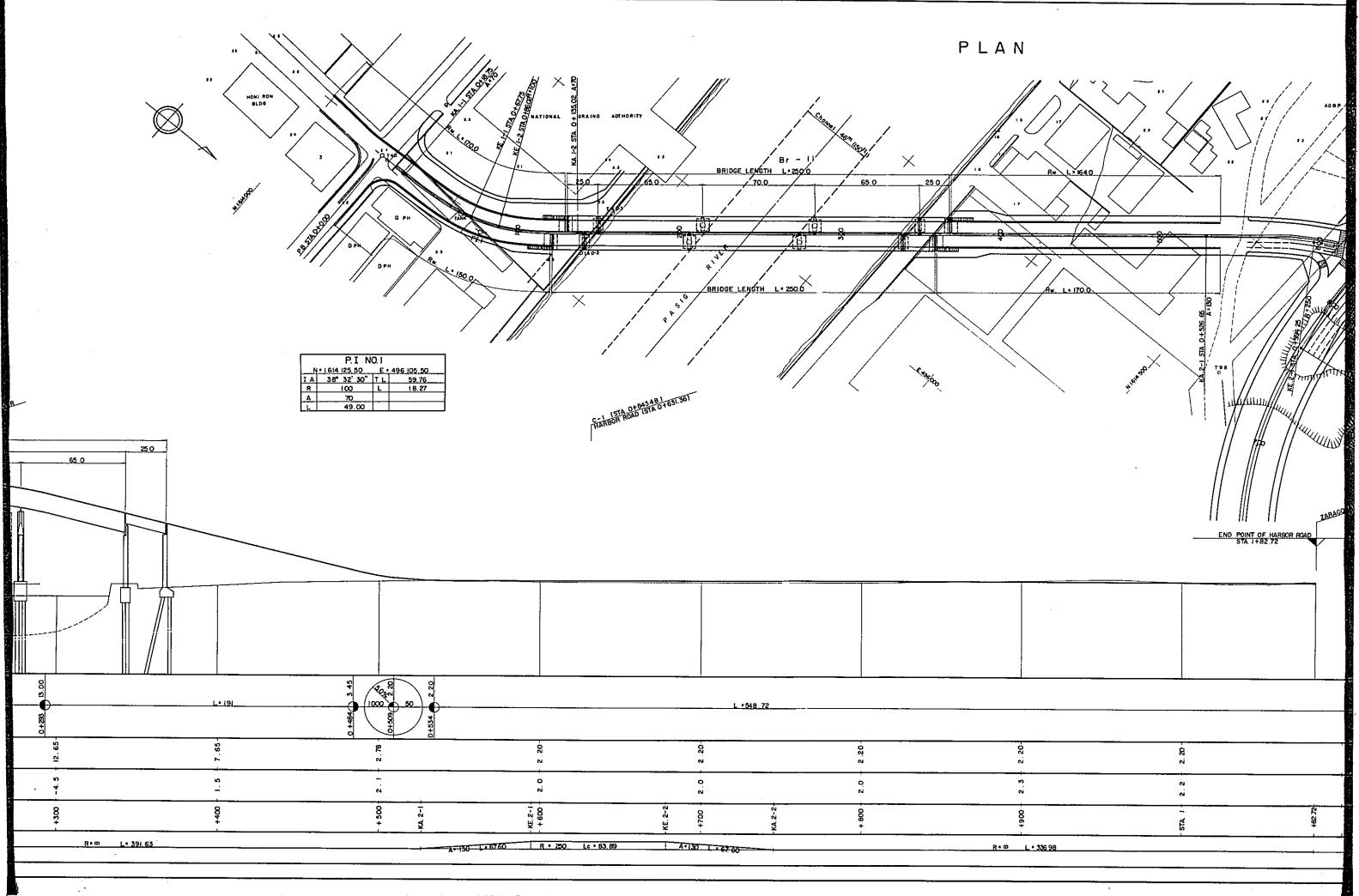


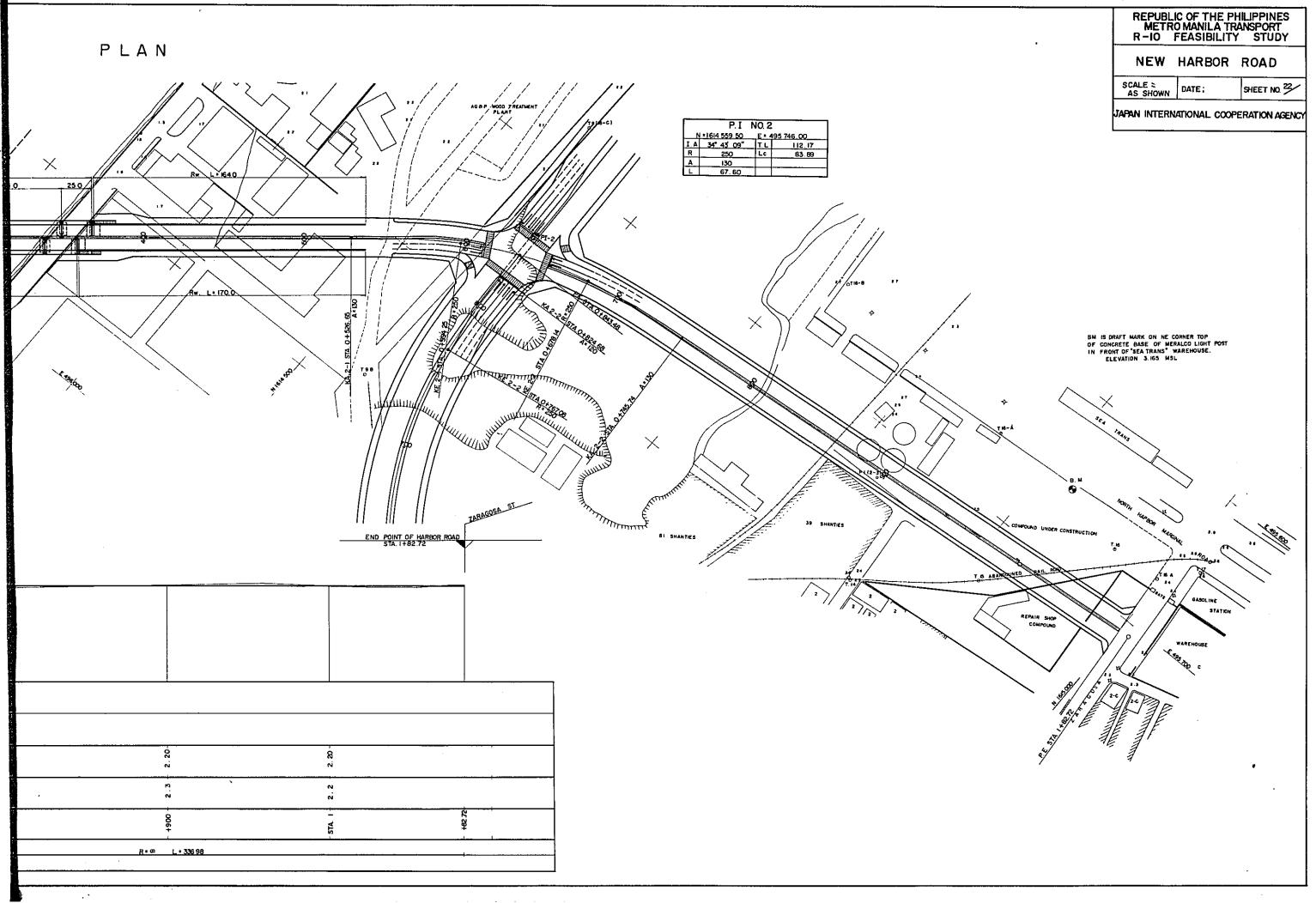


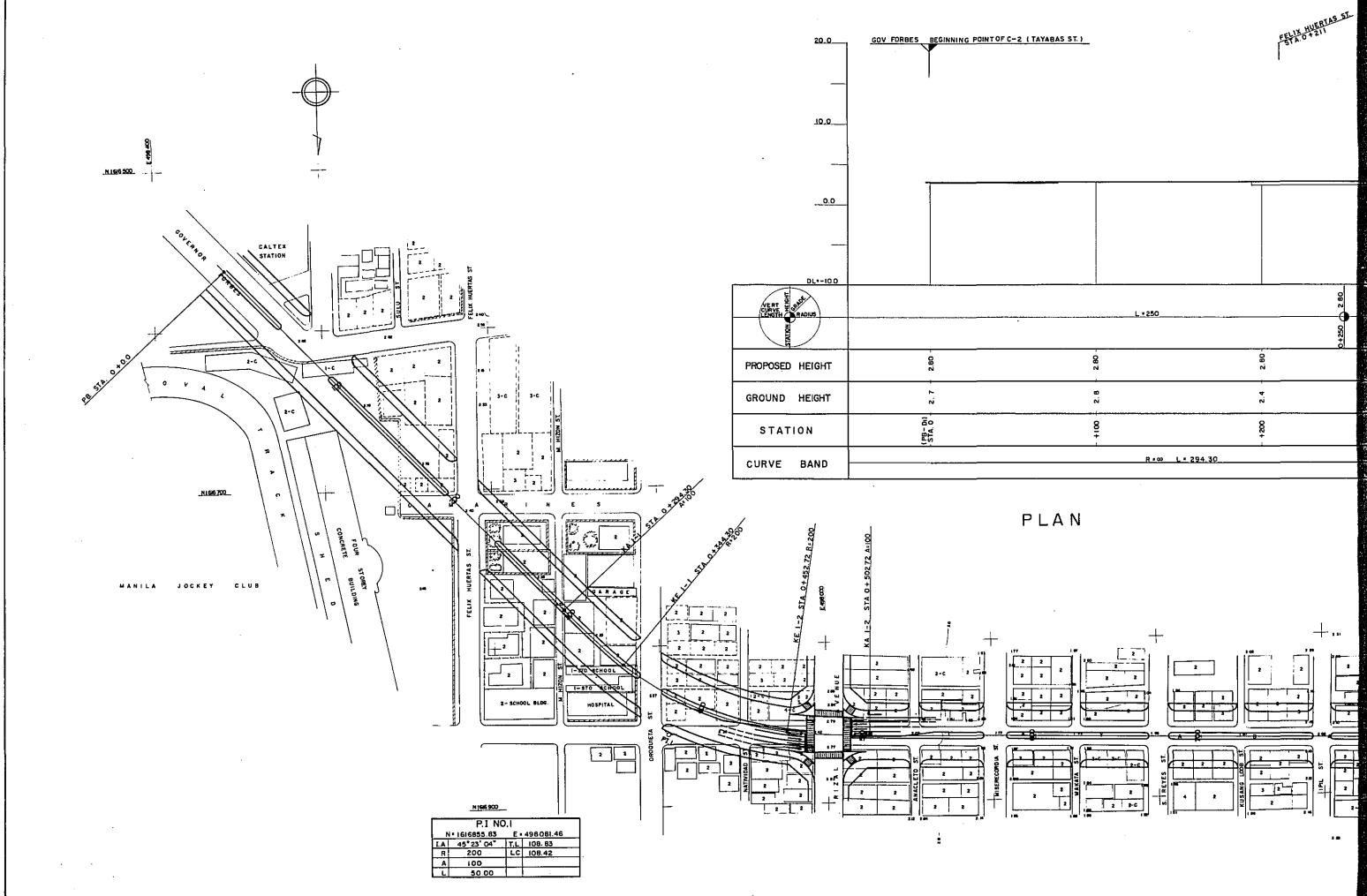
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JAPAN INTERNATIONAL COOPERATION AGENCY			

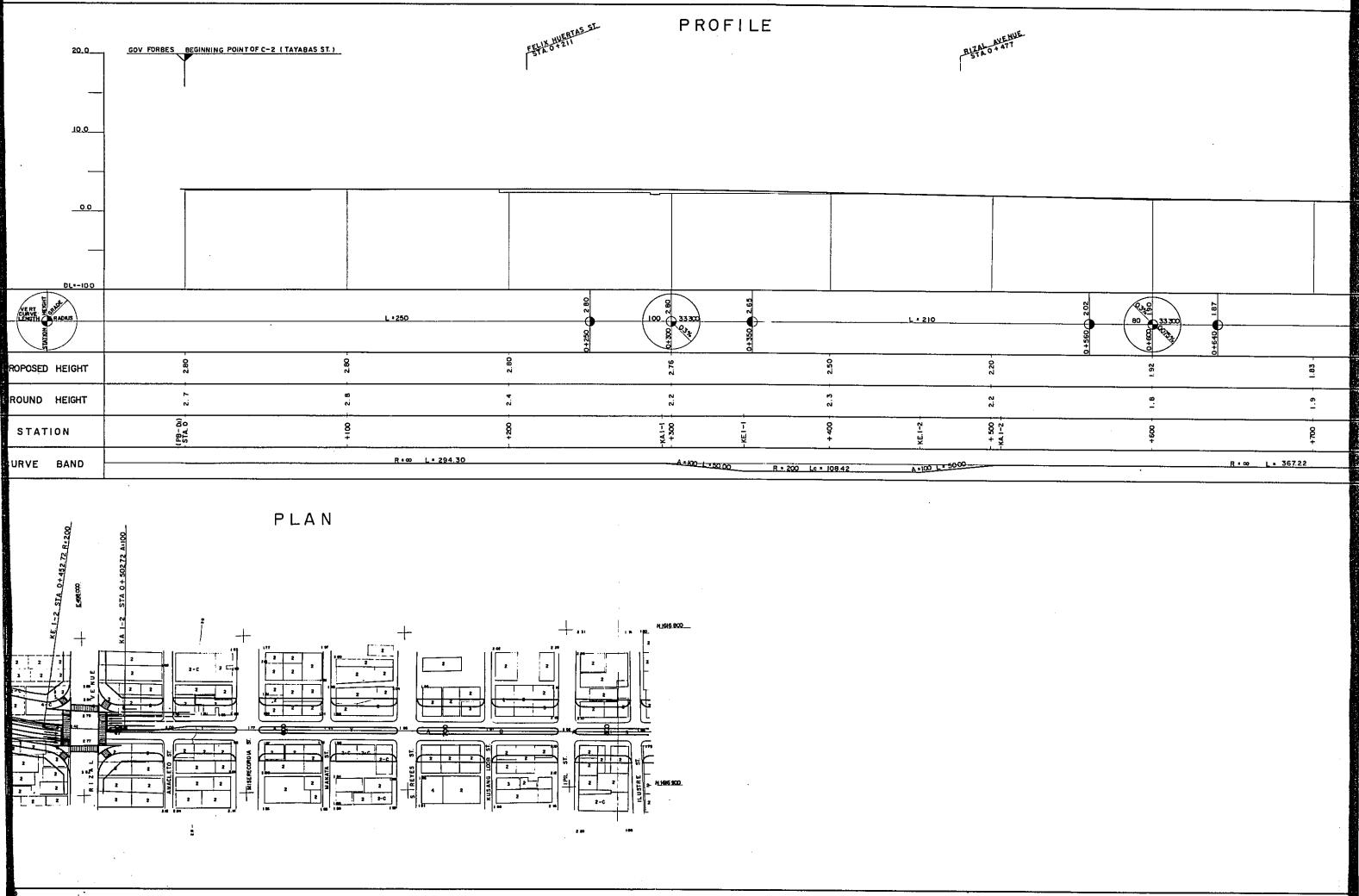


	P.I N	0.1	
N	* 614 125.50	E .	496 105.50
I.A	38" 32' 30"	TL	59.76
R	100	L	18.27
A	70		
L	49.00		



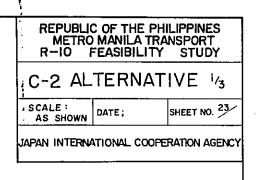


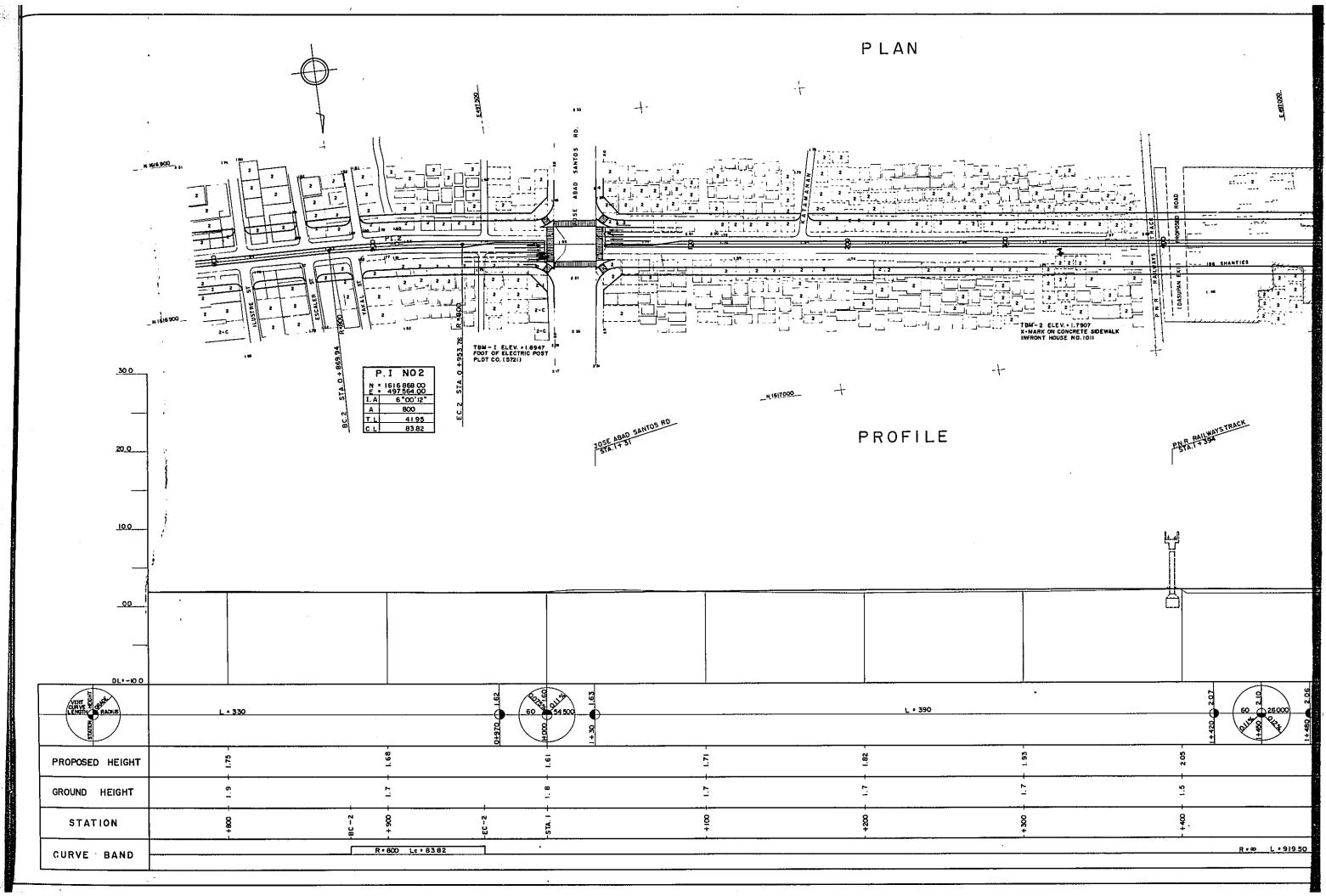


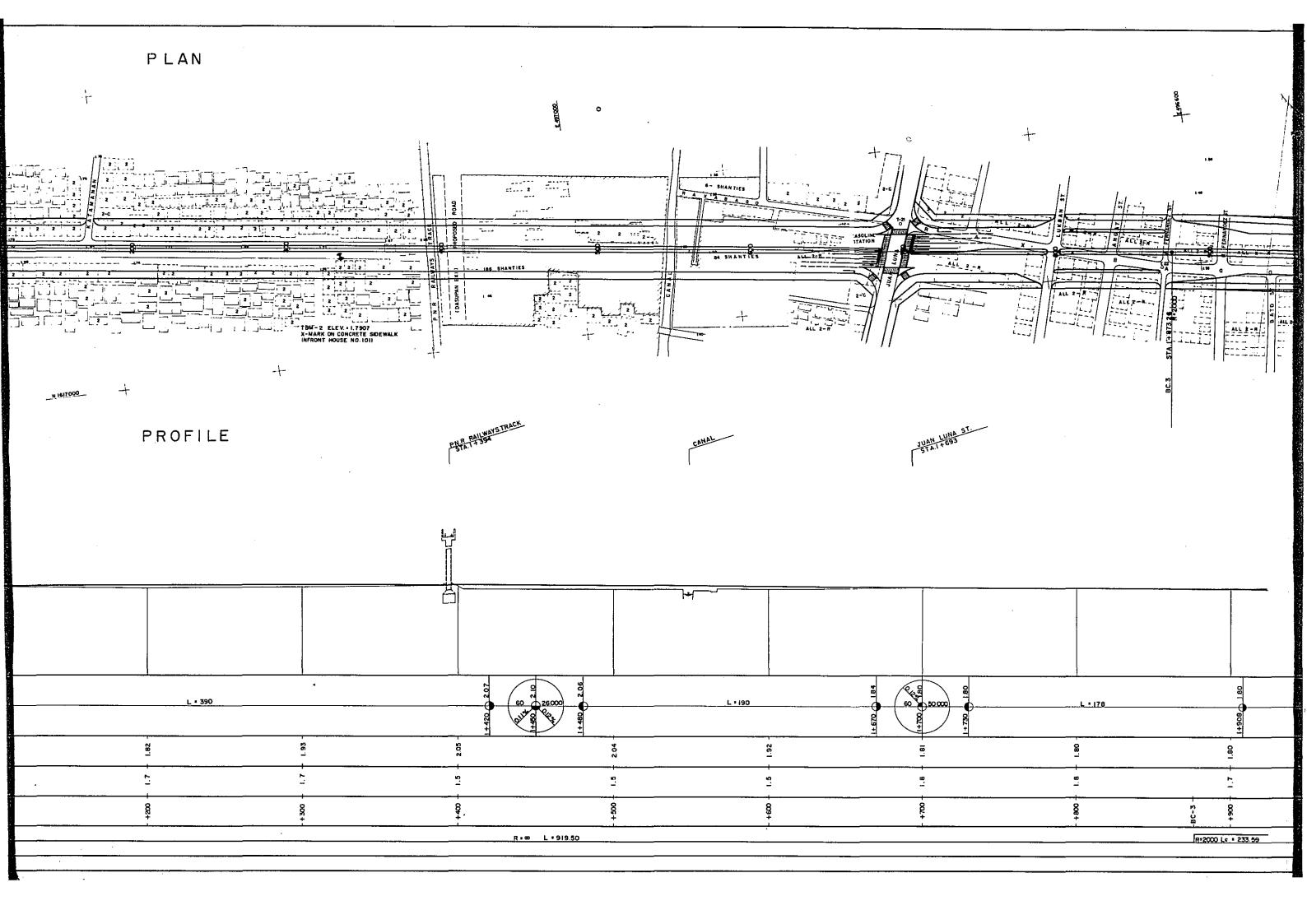


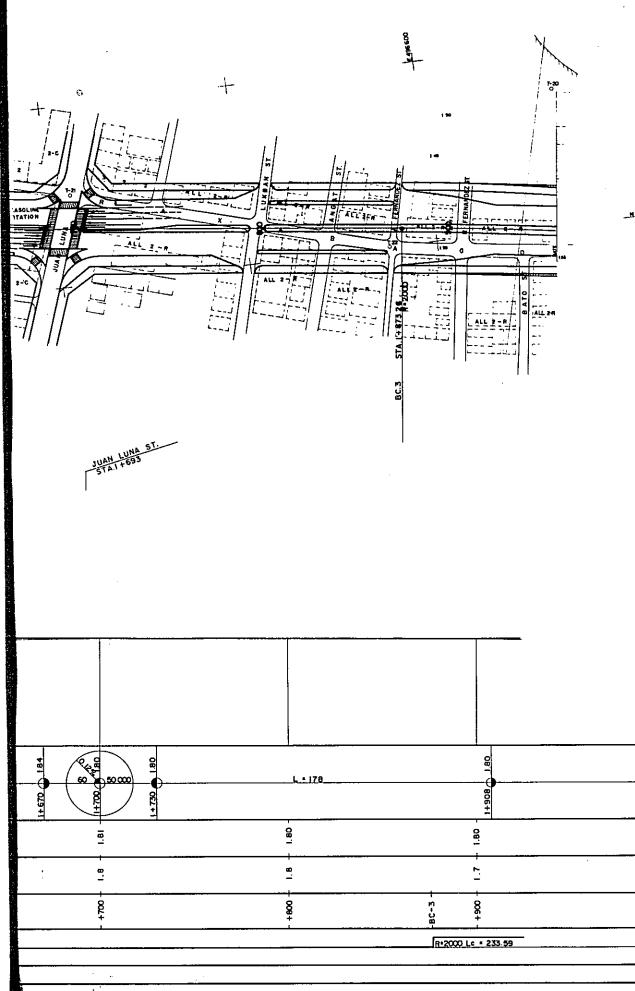
BLZAL AVENUE. STA 0 + ATT

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L = 210		0+550 2 02 0+50 8 50 0+640 1 87 0+640 1 87		L • 330		
	520			<u>5</u> .	80 10 1	
	N. N	<u>م</u> 	o	<u>თ</u> . —	2	
- KE.I-2 -		89+	+ 100	88		
A = 100 L = 50	000	R•	rœ <u>L</u> ∎ 367.22		R=600 Lc= 83.82	









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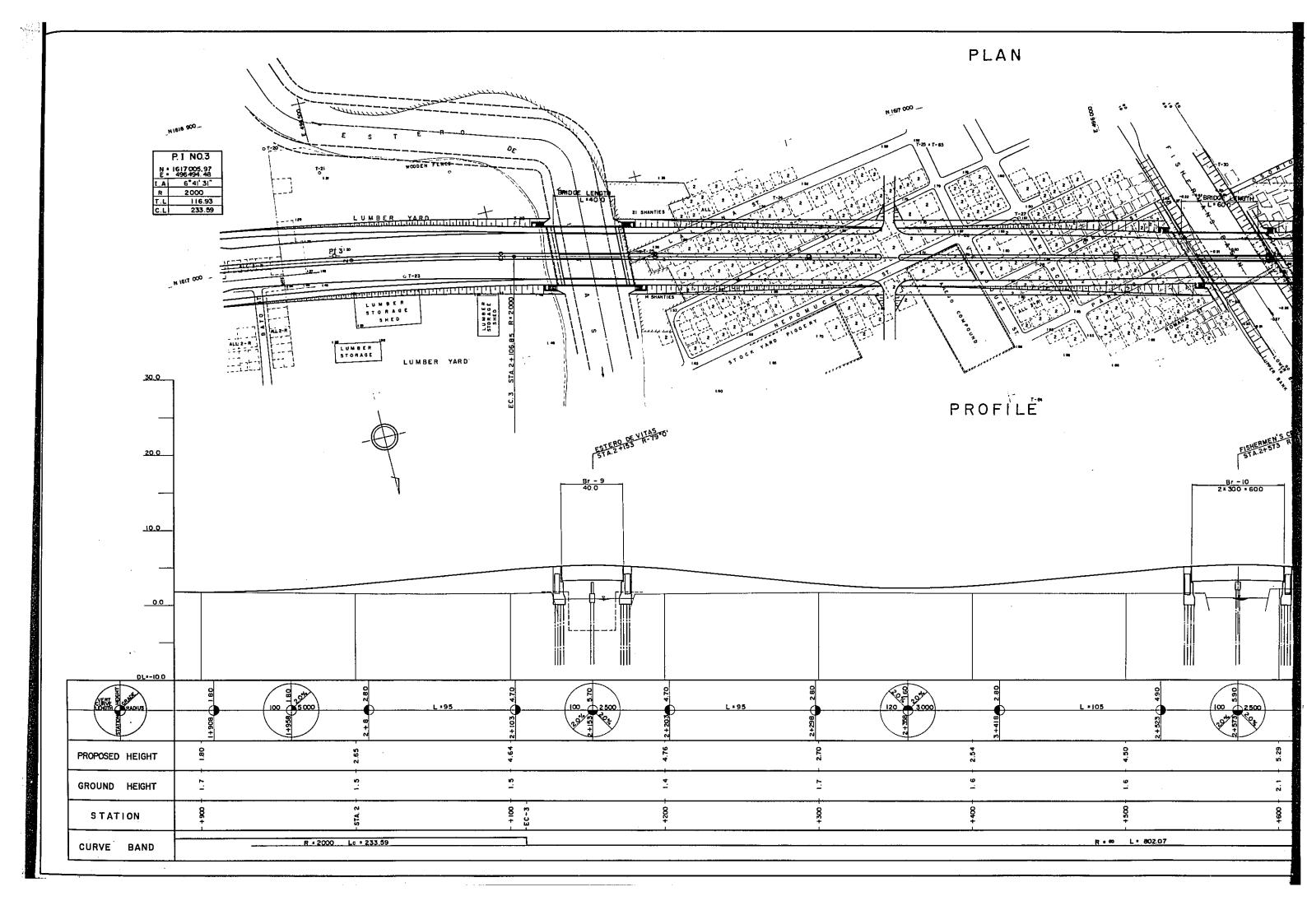
N 1616 900

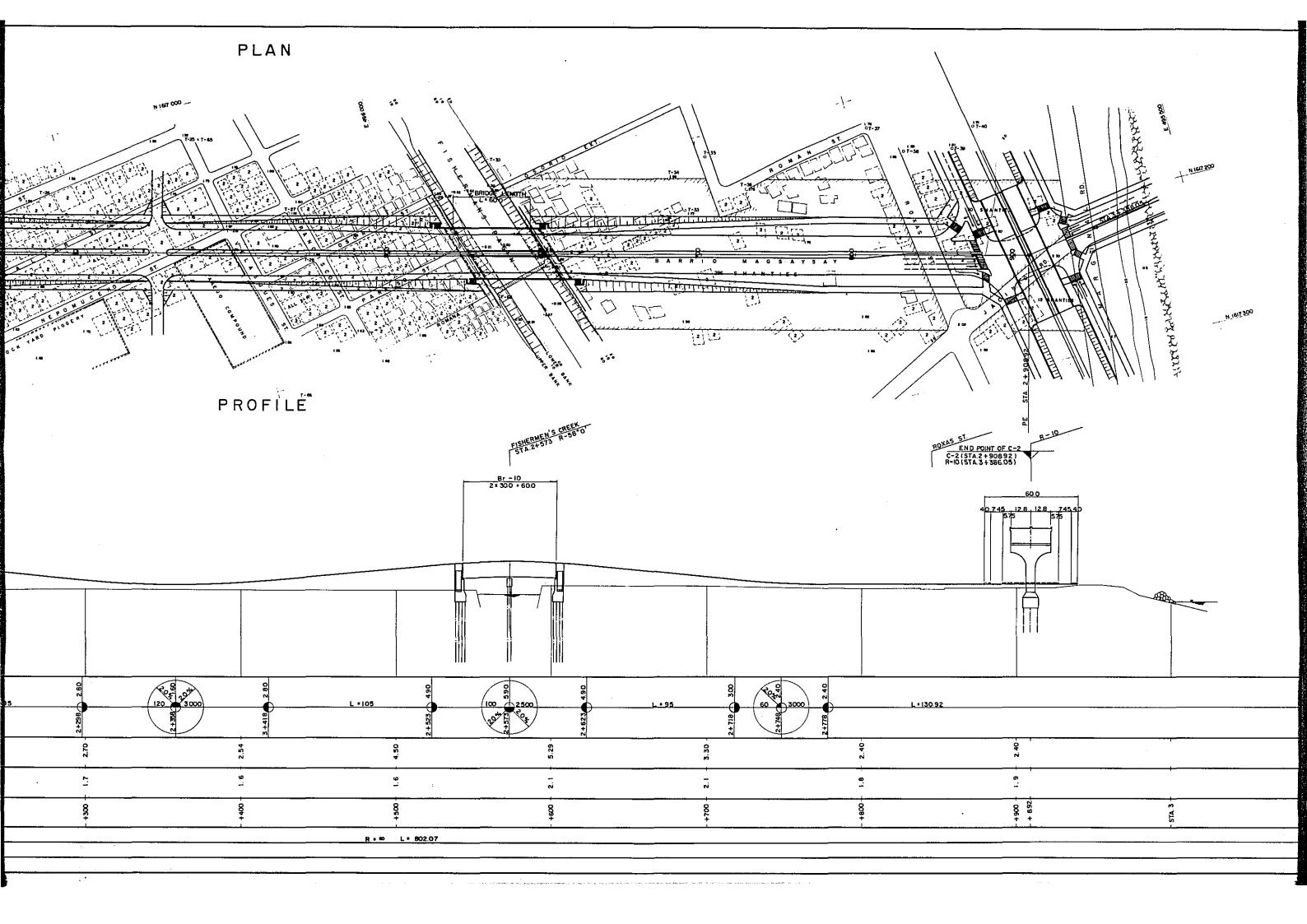
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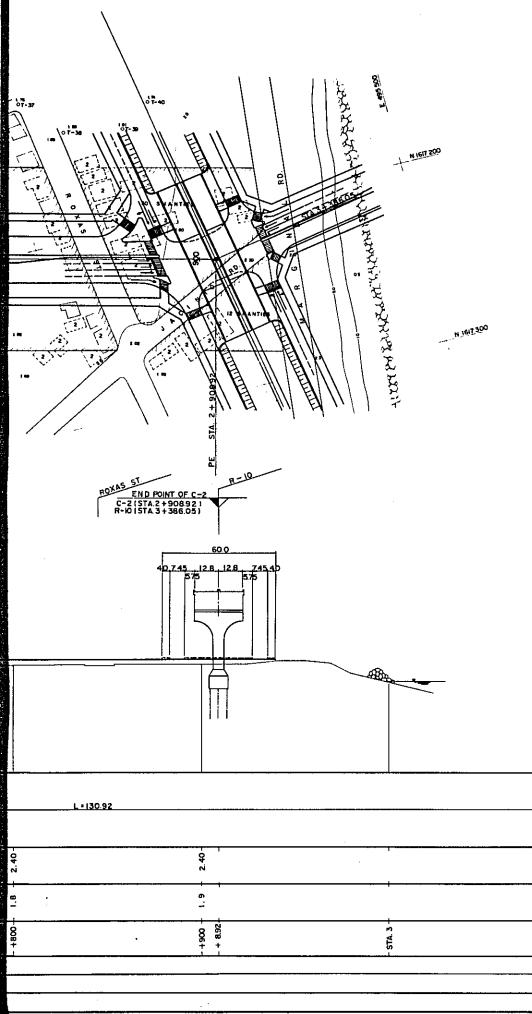
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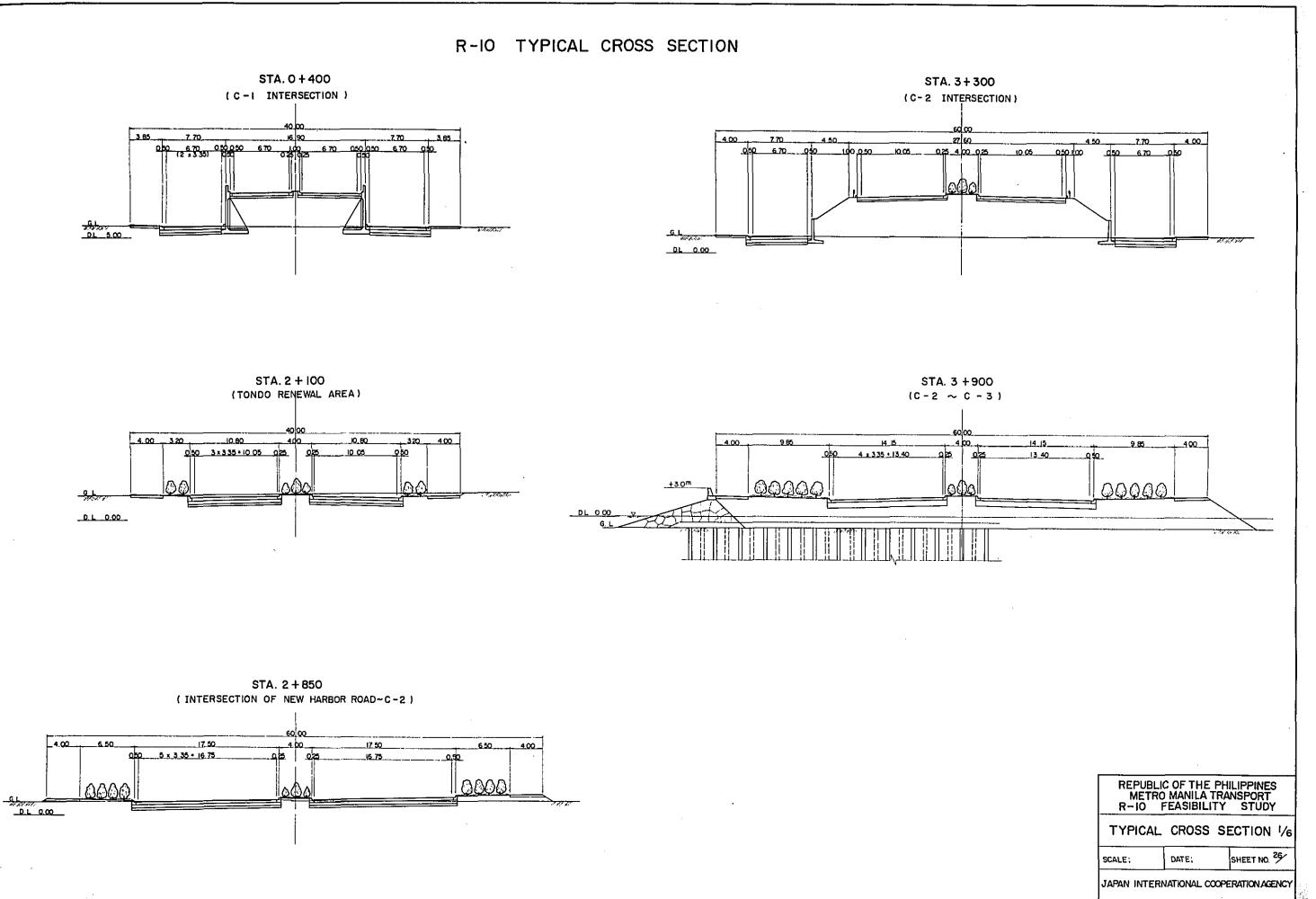
REPUBLIC OF THE PHILIPPINES METRO MANILA TRANSPORT R-IO FEASIBILITY STUDY						
C-2 ALTERNATIVE ² / ₃						
SCALE: AS SHOWN	DATE;	SHEET NO. 24				
JAPAN INTERNATIONAL COOPERATION AGENCY						

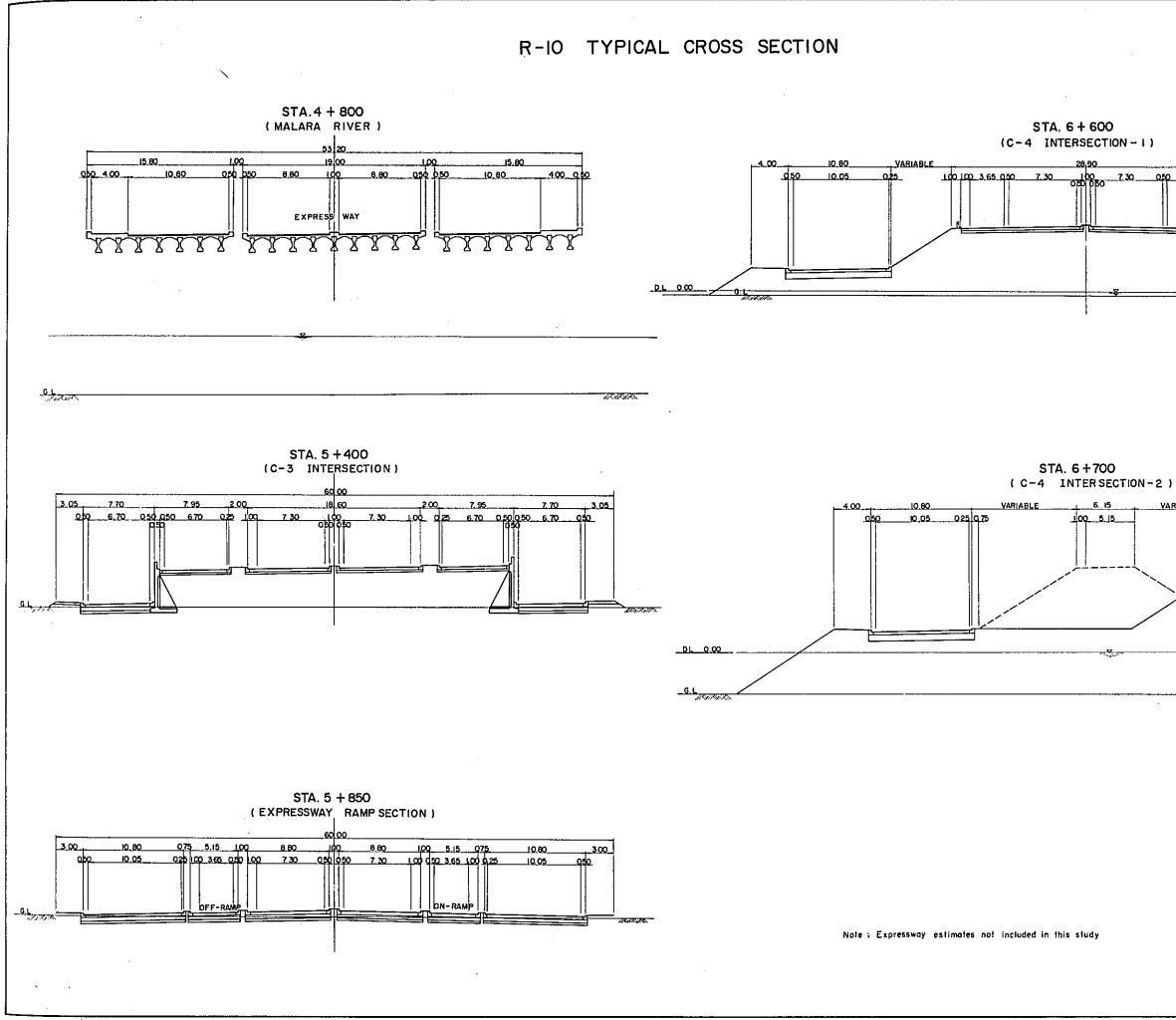






C-2 AL	C-2 ALTERNATIVE 3/3					
SCALE: AS SHOWN	DATE:	SHEET NO 2				



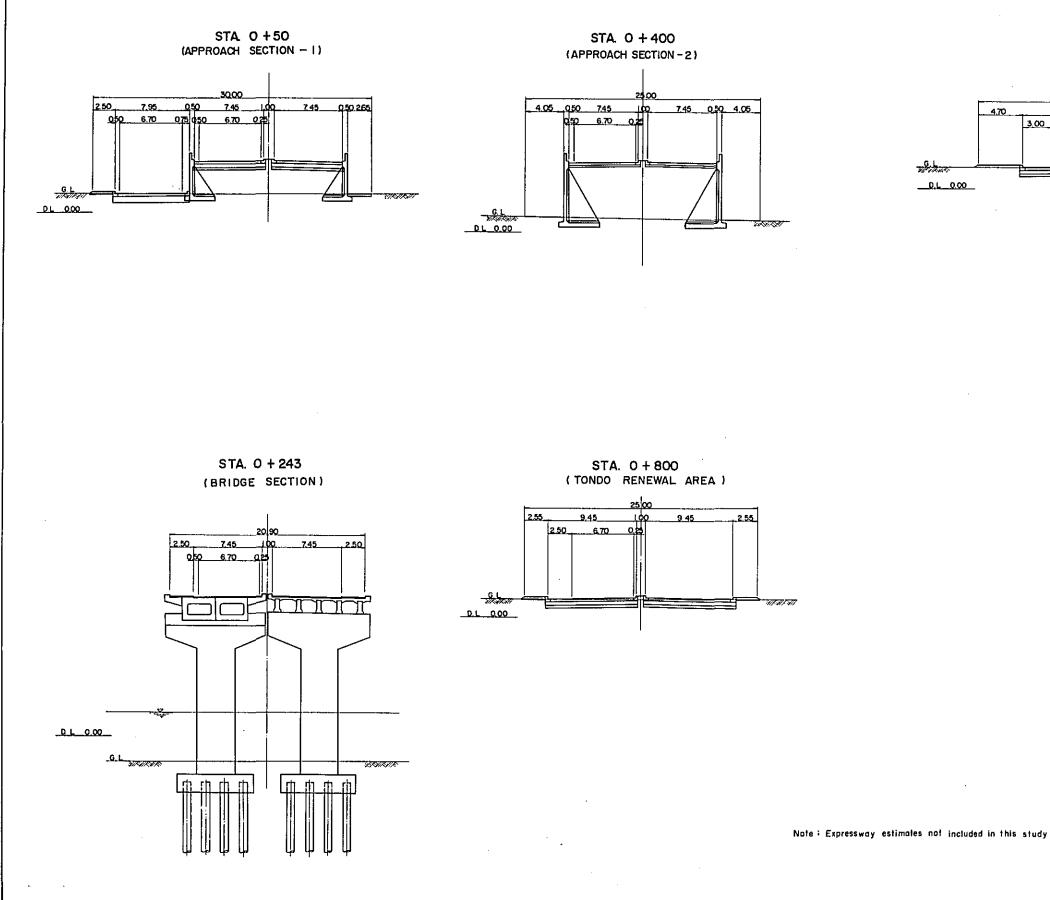


VARIABLE 10.60 4 00 7.30 050 365 100 100 <u>0</u>25 10,05 0.50 11/ 11/ 11 VARIABLE 10.3 i<u>loo</u> 8 80 0.50 REPUBLIC OF THE PHILIPPINES METRO MANILA TRANSPORT R-IO FEASIBILITY STUDY TYPICAL CROSS SECTION 2/6 SCALE : AS SHOWN SHEET NO. 27 DATE : JAPAN INTERNATIONAL COOPERATION AGENCY

TYPICAL CROSS SECTION



NEW HARBOR ROAD

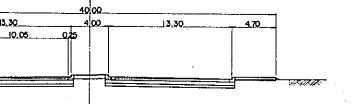




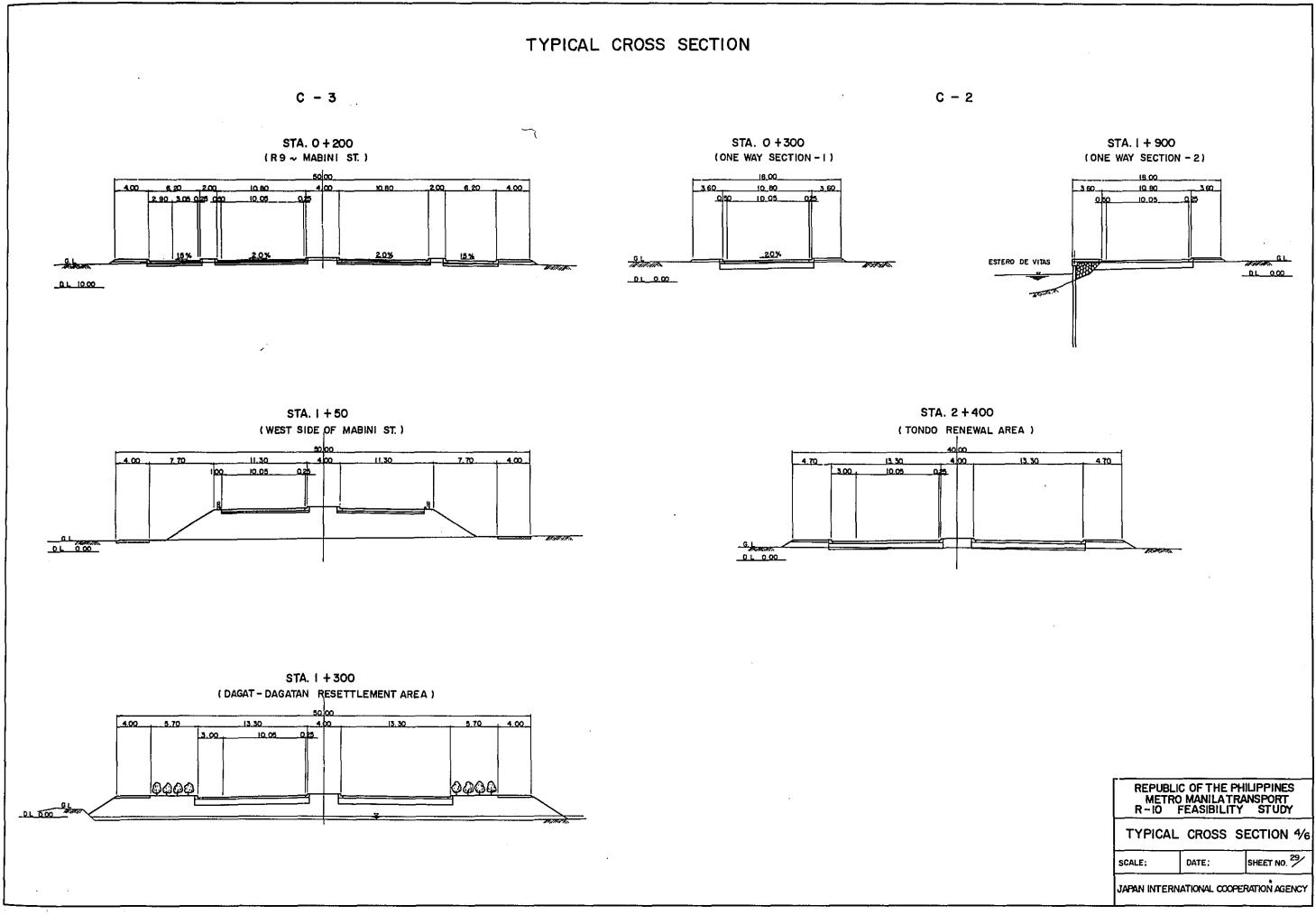


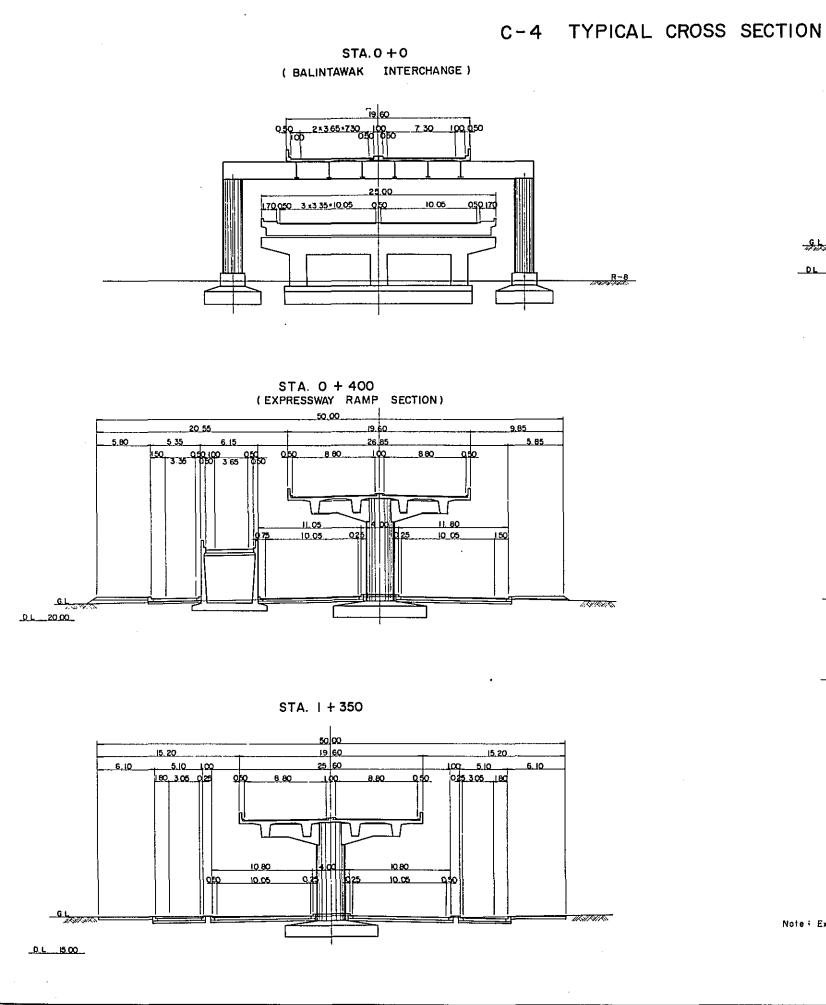
13.30

3.00

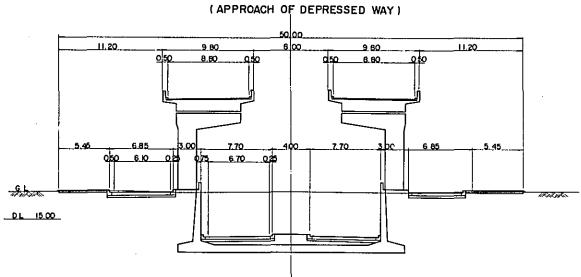


REPUBLIC OF THE PHILIPPINES METRO MANILA TRANSPORT R-10 FEASIBILITY STUDY								
TYPICAL CROSS SECTION 3/6								
SCALE: AS SHOWN	DATE;	SHEET NO 28						
JAPAN INTERNATIONAL COOPERATION AGENCY								

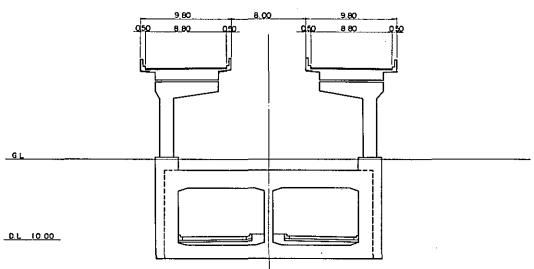




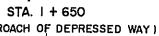
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STA. 1 + 747 (DEPRESSED WAY)

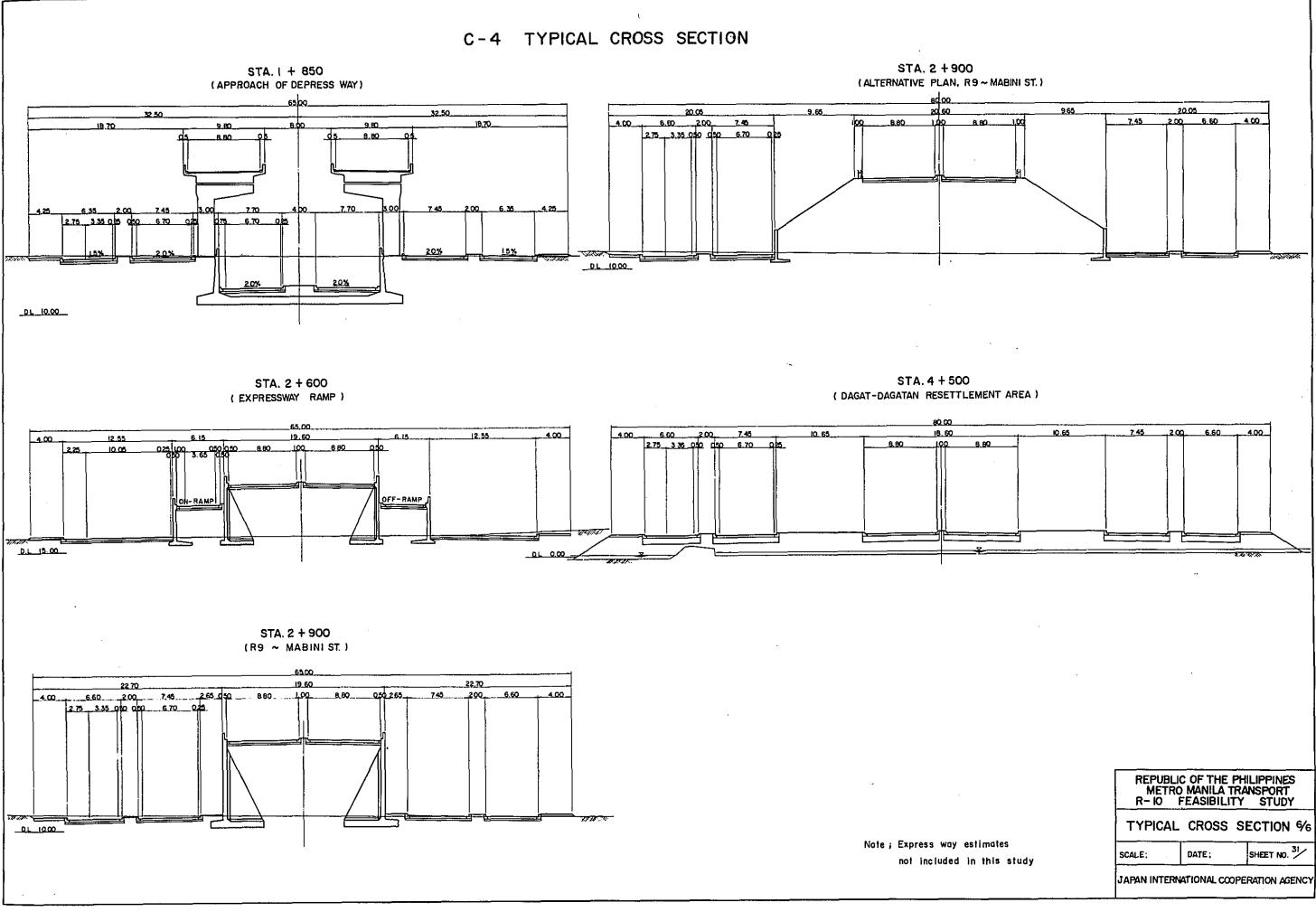


Note + Expressway estimates not included in this study

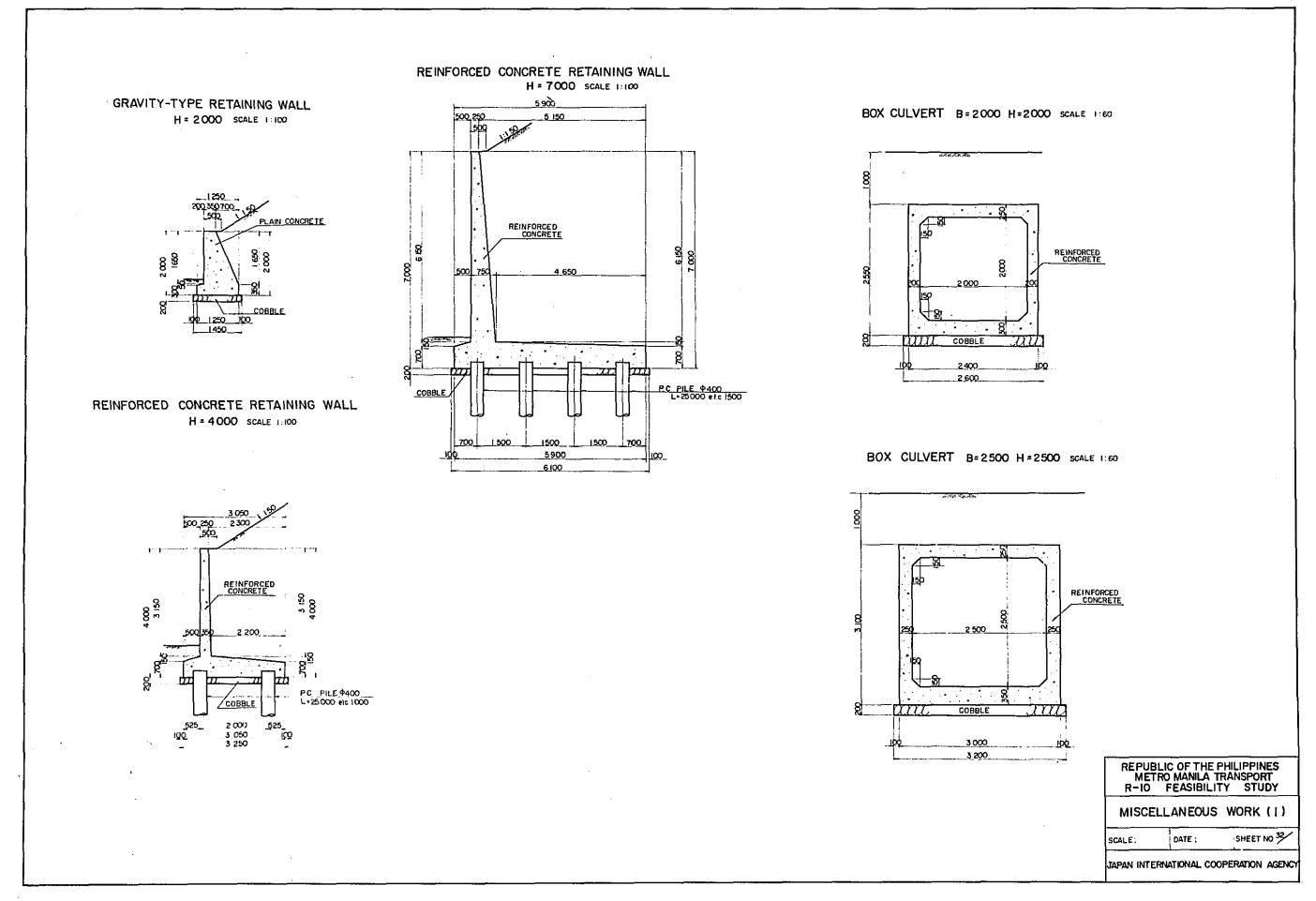




METRO	MANILA	Philippines Transport Ty study
TYPICAL	CROSS	SECTION 5/6
SCALE: AS SHOWN	DATE :	SHEET NO. 30
JAPAN INTERN	ATIONAL CO	OPERATION AGENCY

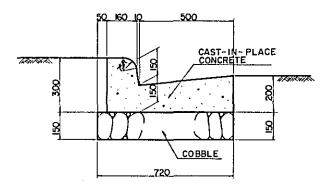


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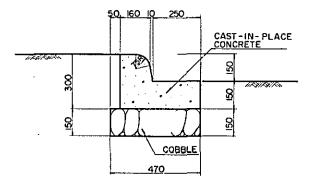


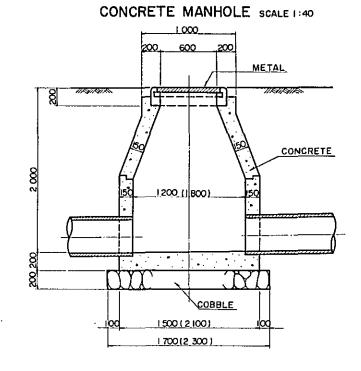
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L-TYPE GUTTER B=500 SCALE 1:20



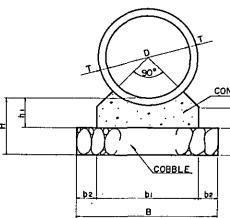
CONCRETE CURB B=250 SCALE 1:20





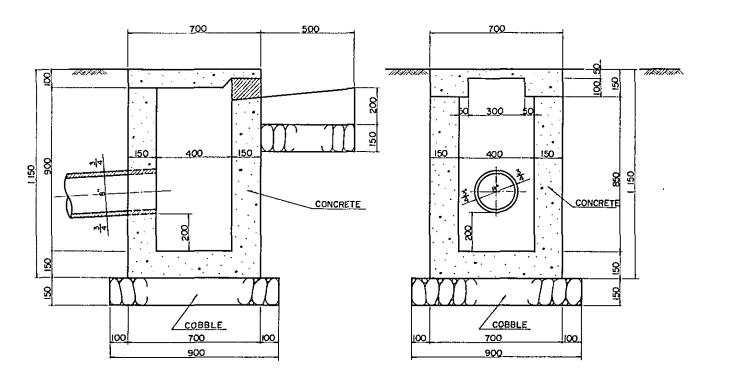
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DRAIN PIPE SCALE 1:20



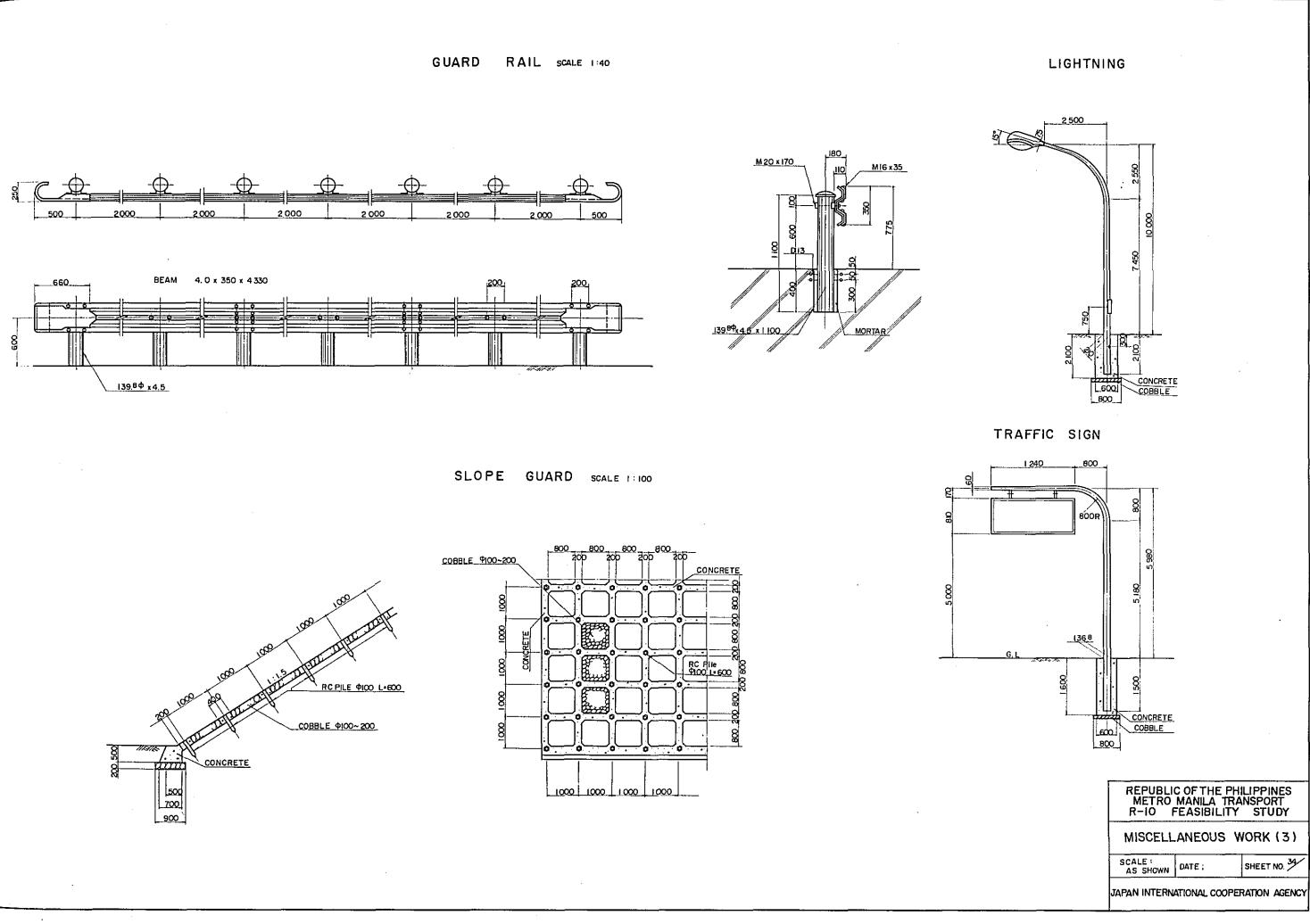
D ^{In}	Ť	н	ħı	ha	hs	в	b.	p 5
121	⁽ⁿ	260***	HOmm	80 ^{mm}	150 ^{mm}	560""	360""	100
18	2 🚽	298	148	110	150	760	540	110
20	3	360	210	160	150	950	730	011
36	4	435	285	210	150	1 300	1 070	115
48	5	505	355	260	150	1650	1410	120

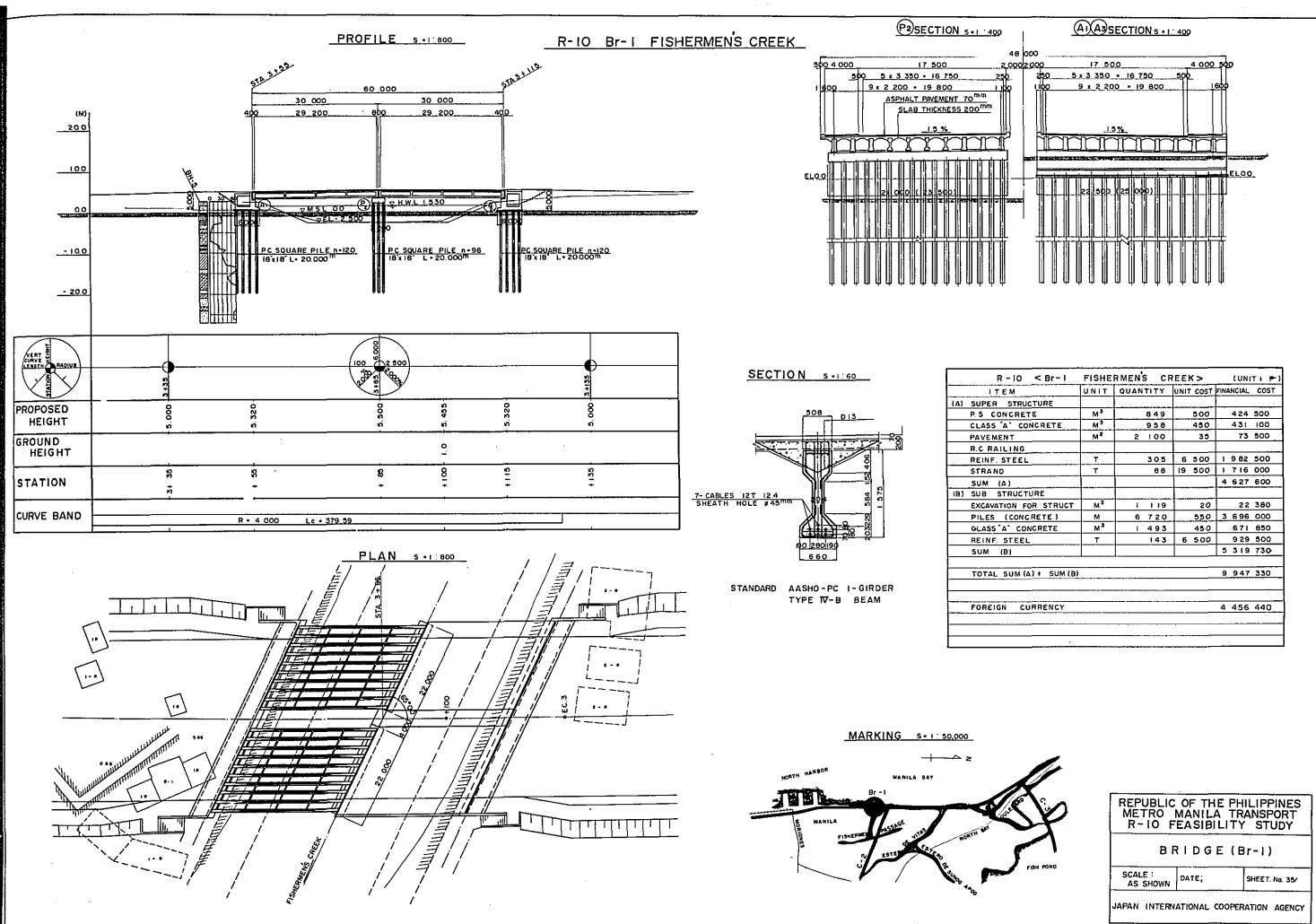
CATCH BASINS SCALE 1:20



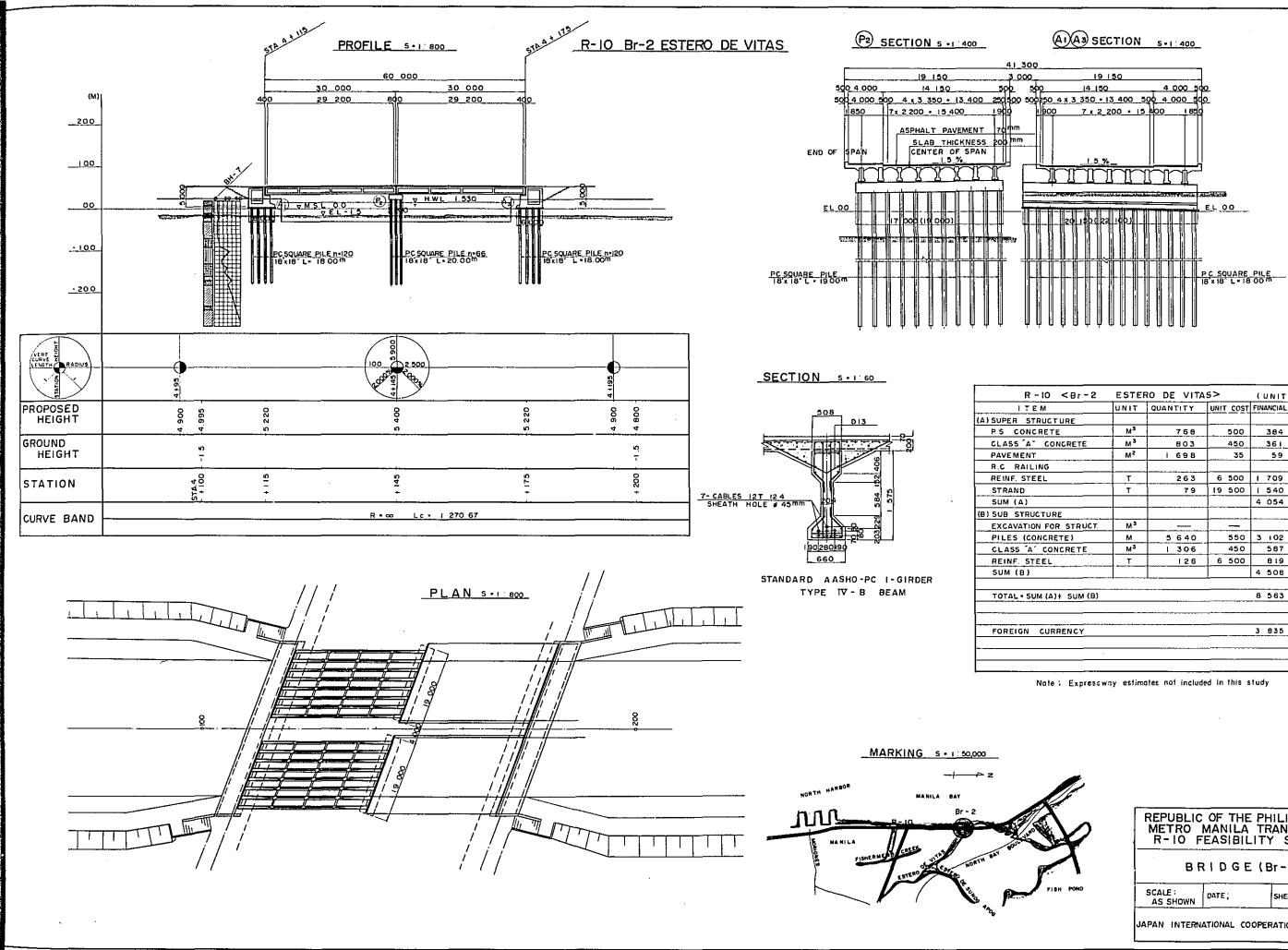
CONCRETE

REPUBLIC OF THE PHILIPPINES METRO MANILA TRANSPORT R-10 FEASIBILITY STUDY						
MISCELLANEOUS WORK (2)						
SCALE: AS SHOWN						
JAPAN INTERNATIONAL COOPERATION AGENCY						



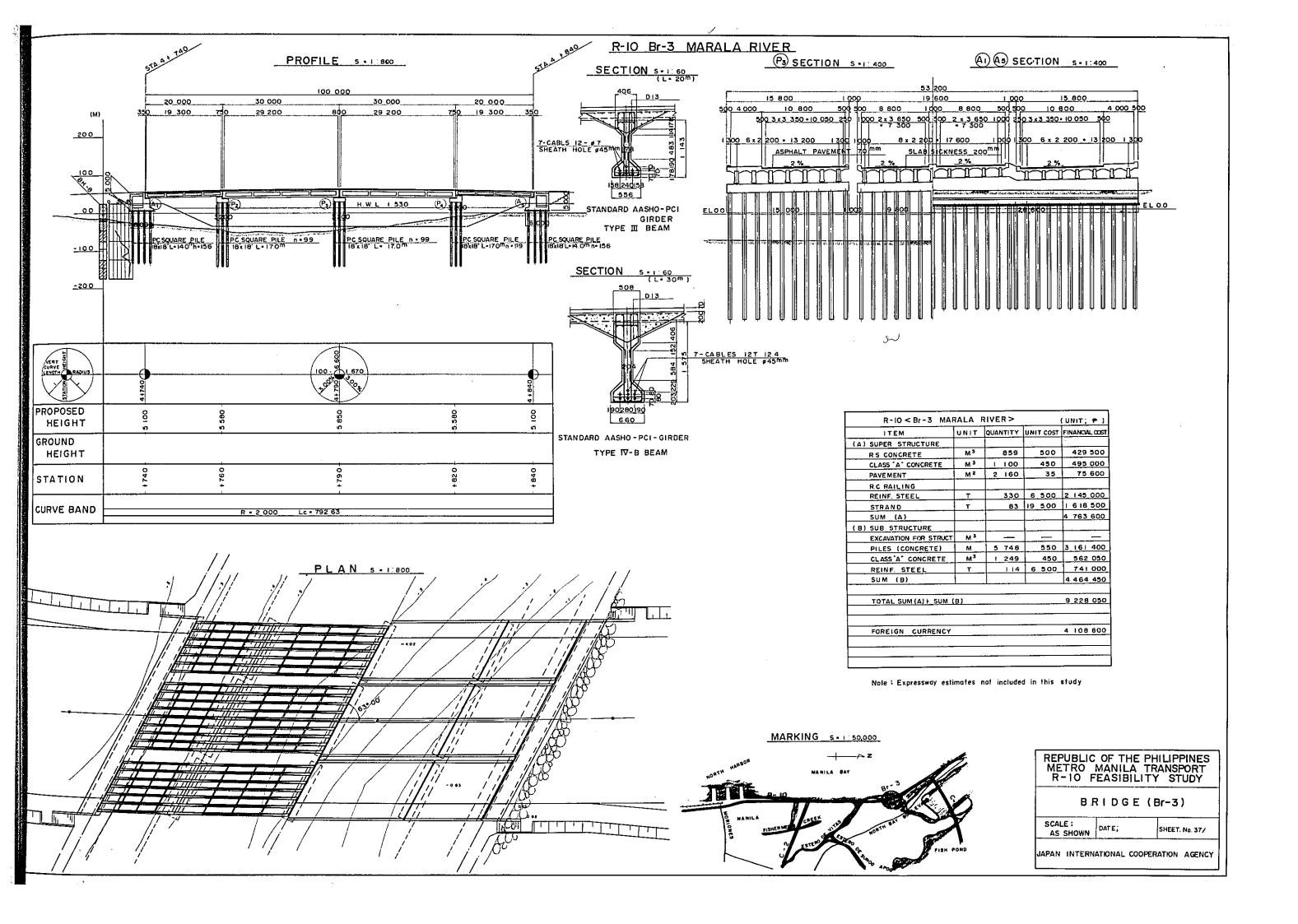


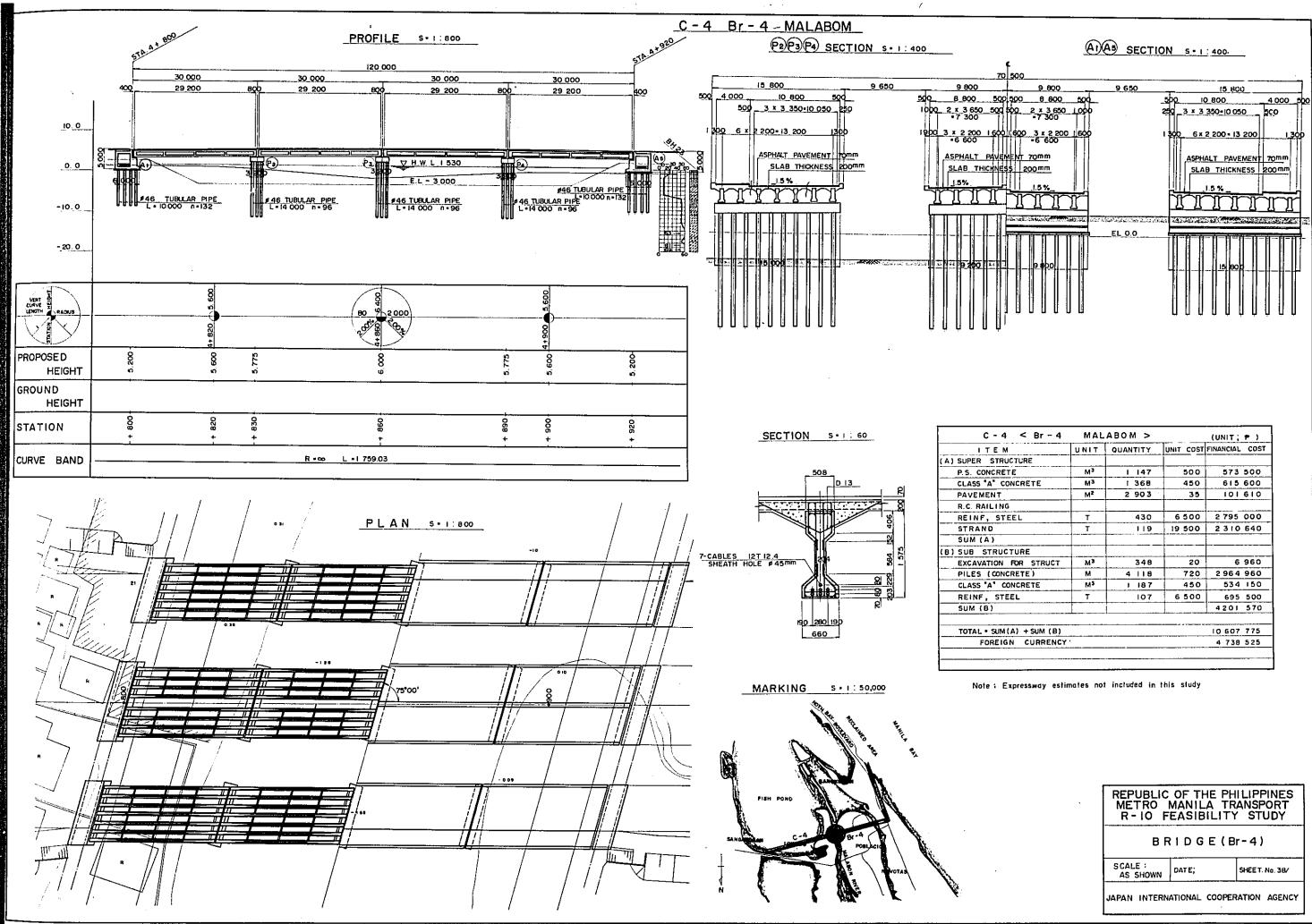
REPUBLIC OF THE PHILIPPINES METRO MANILA TRANSPORT R-IO FEASIBILITY STUDY							
вя	BRIDGE (Br-1)						
SCALE : AS SHOWN							
JAPAN INTERNATIONAL COOPERATION AGENCY							

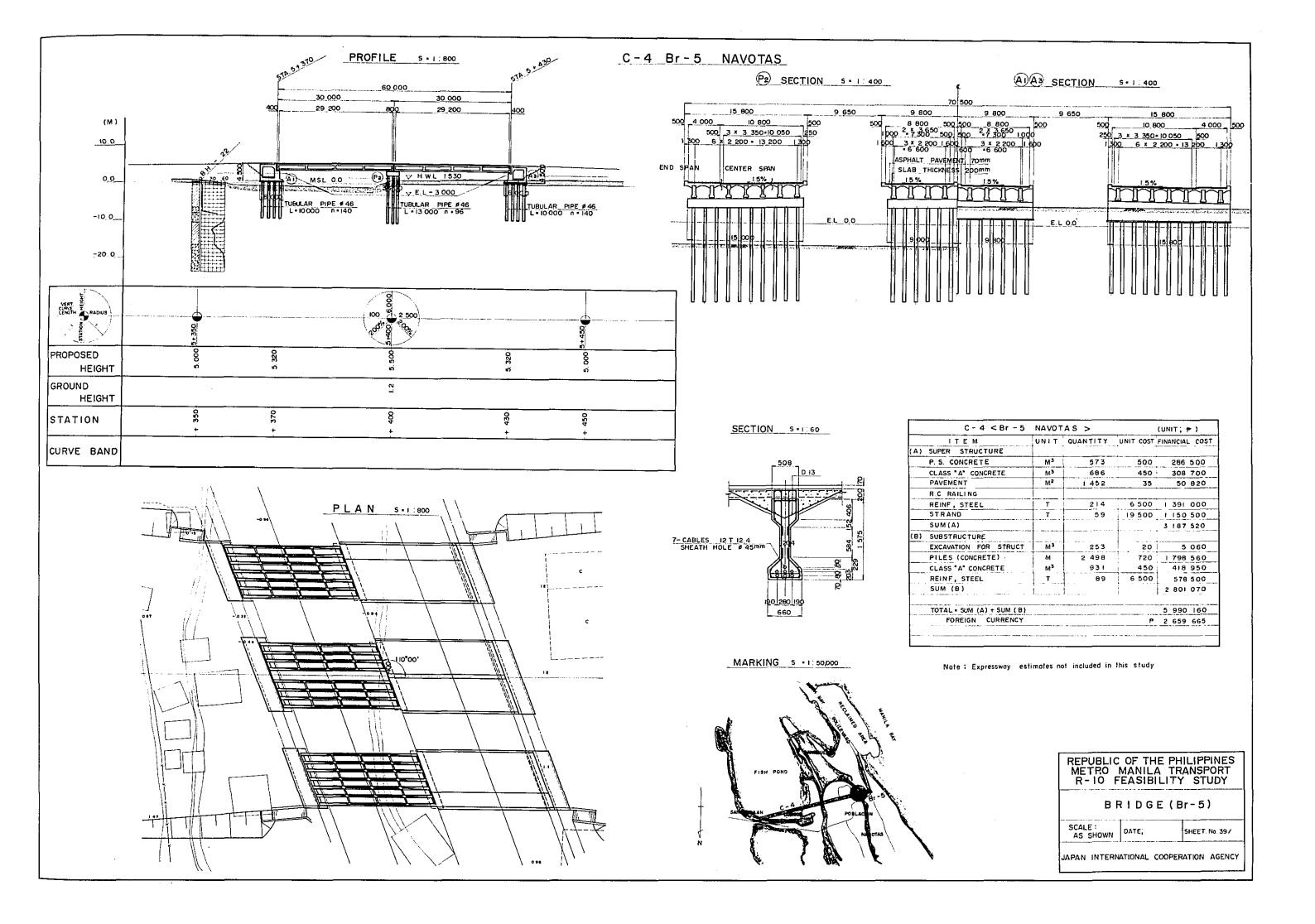


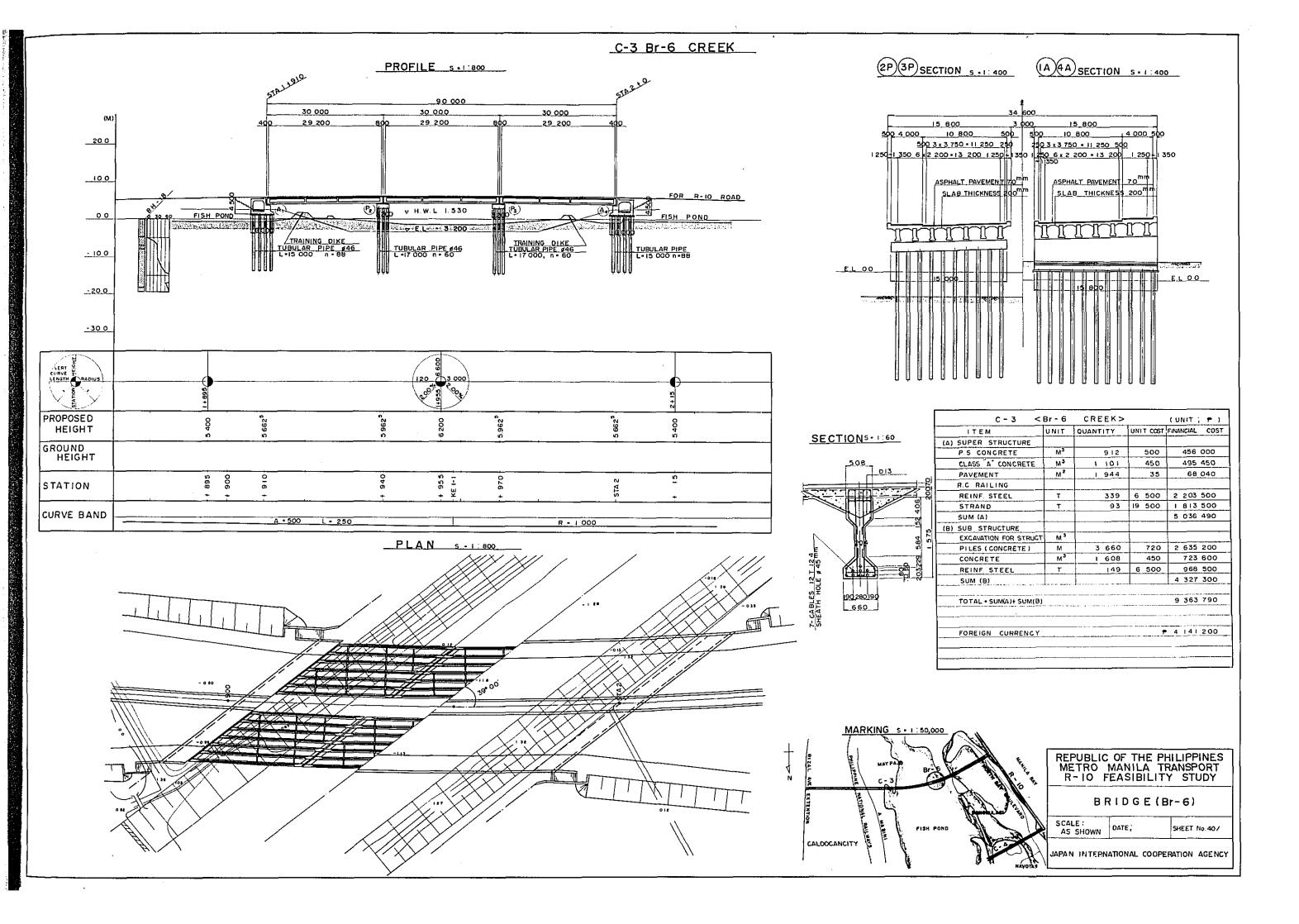
	UNIT	CHANT TY		(UNIT; P)
		QUANTITY	UNIT COST	FINANCIAL COST
	M3	768	500	384 000
TE	M 3	803	450	361 350
	M ²	1 6 9 8	35	59 4 36
			T	
	т	263	6 500	1 709 500
	Т	79	19 500	1 540 500
_				4 054 780
_				
RUCT.	M ³			
	м	5 6 4 0	550	3 102 000
TE	M3	1 306	450	587 700
	т	126	6 500	819 000
				4 508 700
M (B)				8 563 480
Y				3 835 005

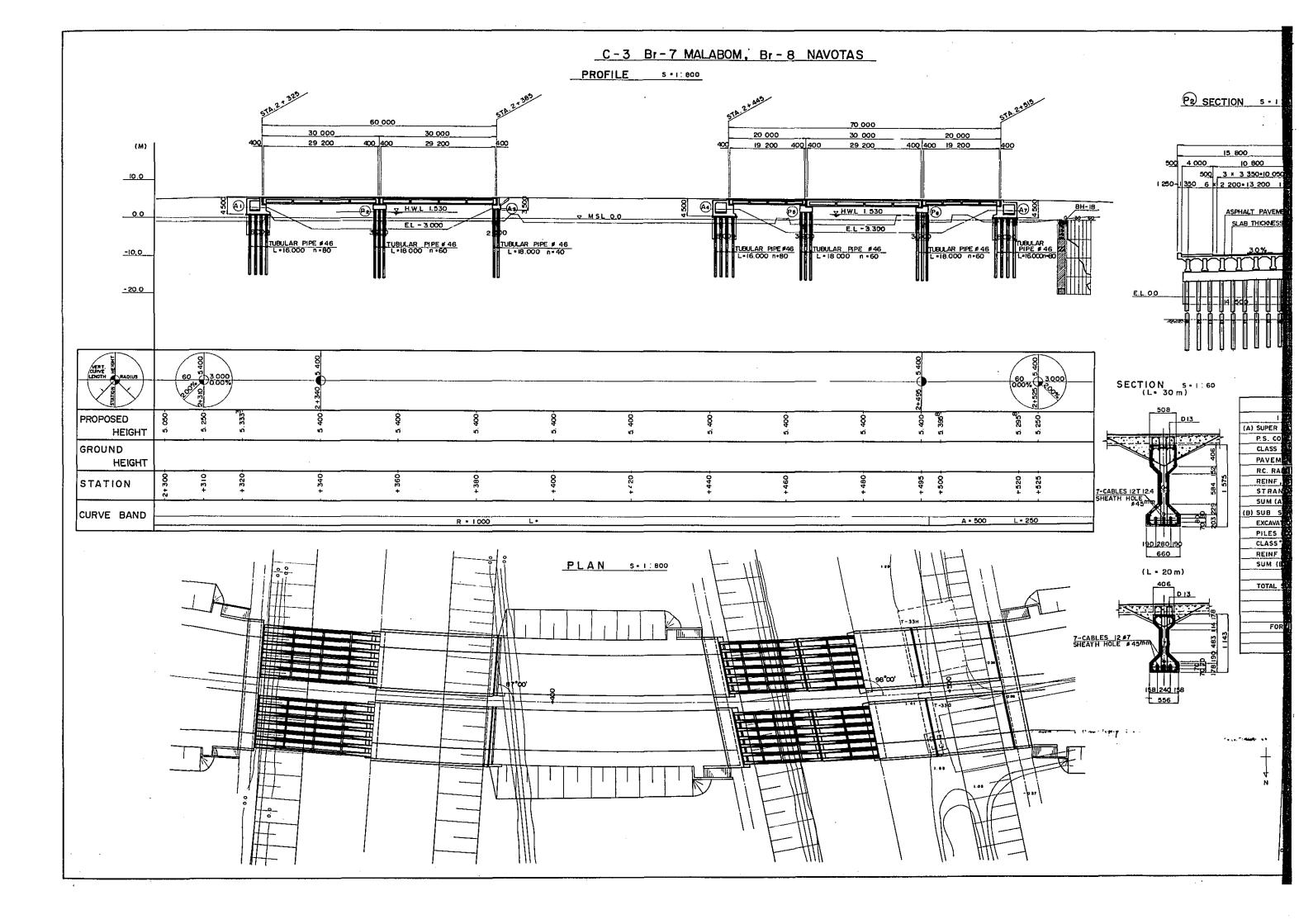
REPUBLIC OF THE PHILIPPINES METRO MANILA TRANSPORT R-IO FEASIBILITY STUDY						
BRIDGE (Br-2)						
SCALE : AS SHOWN						
JAPAN INTERNATIONAL COOPERATION AGENCY						

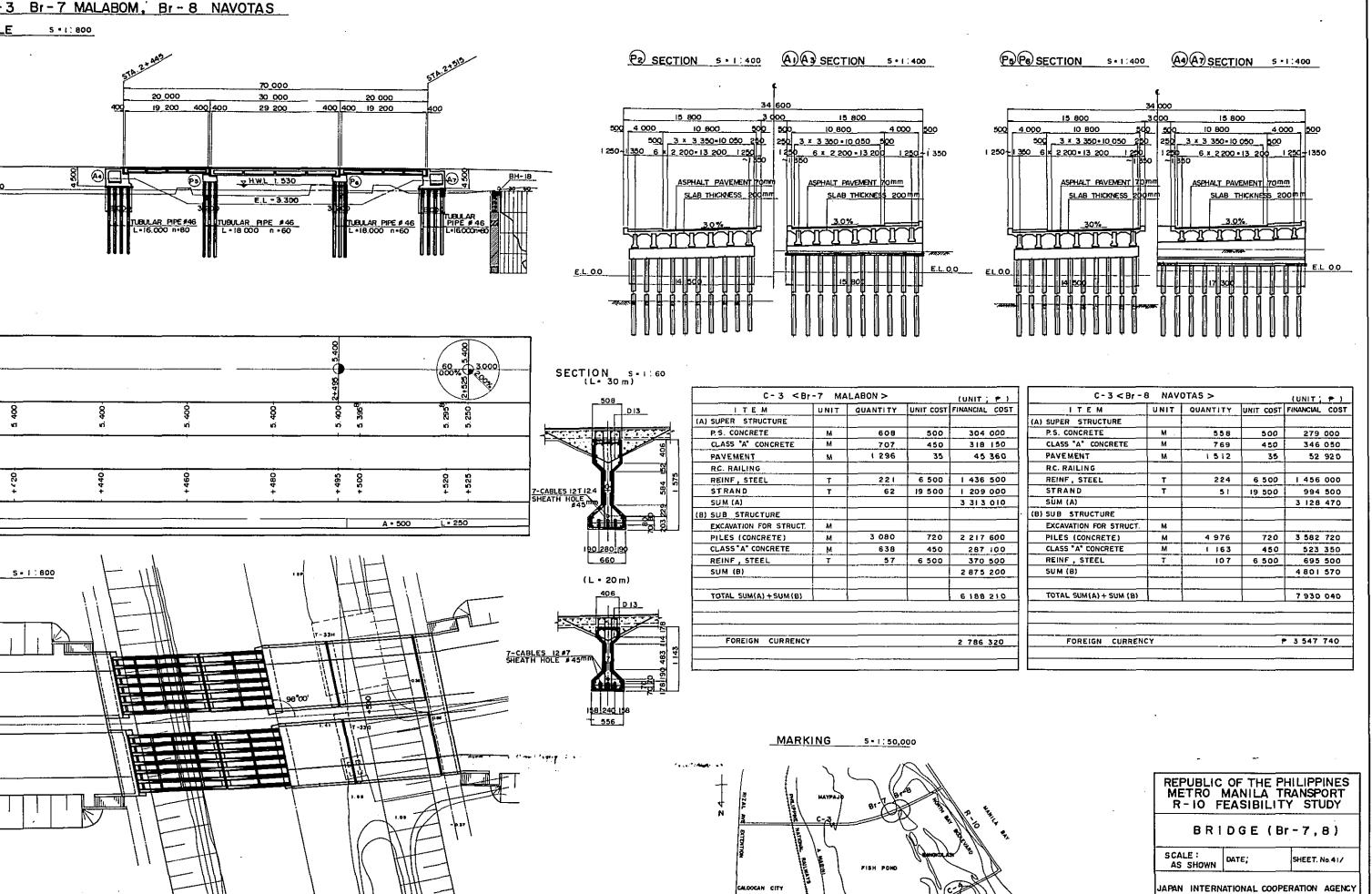






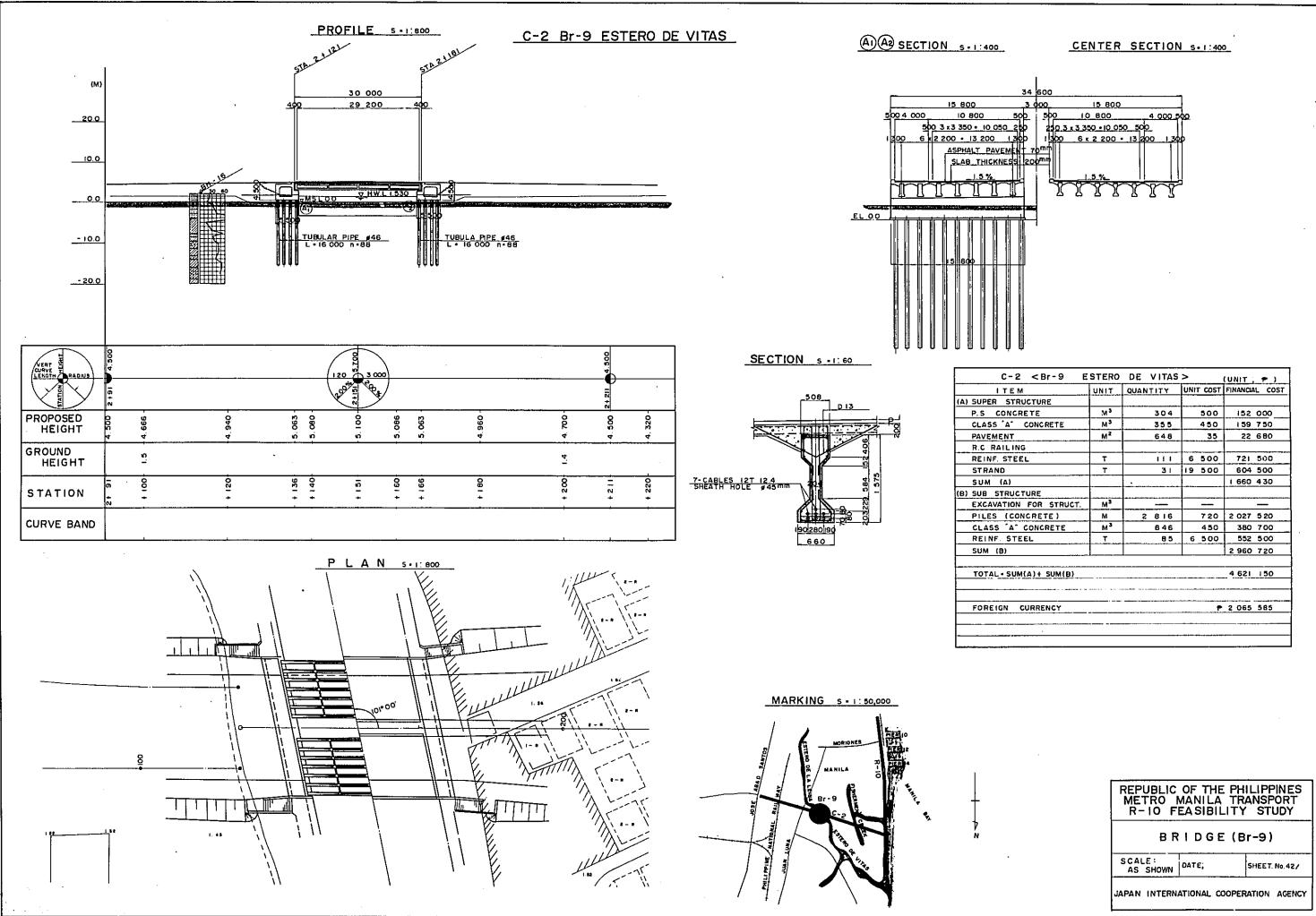






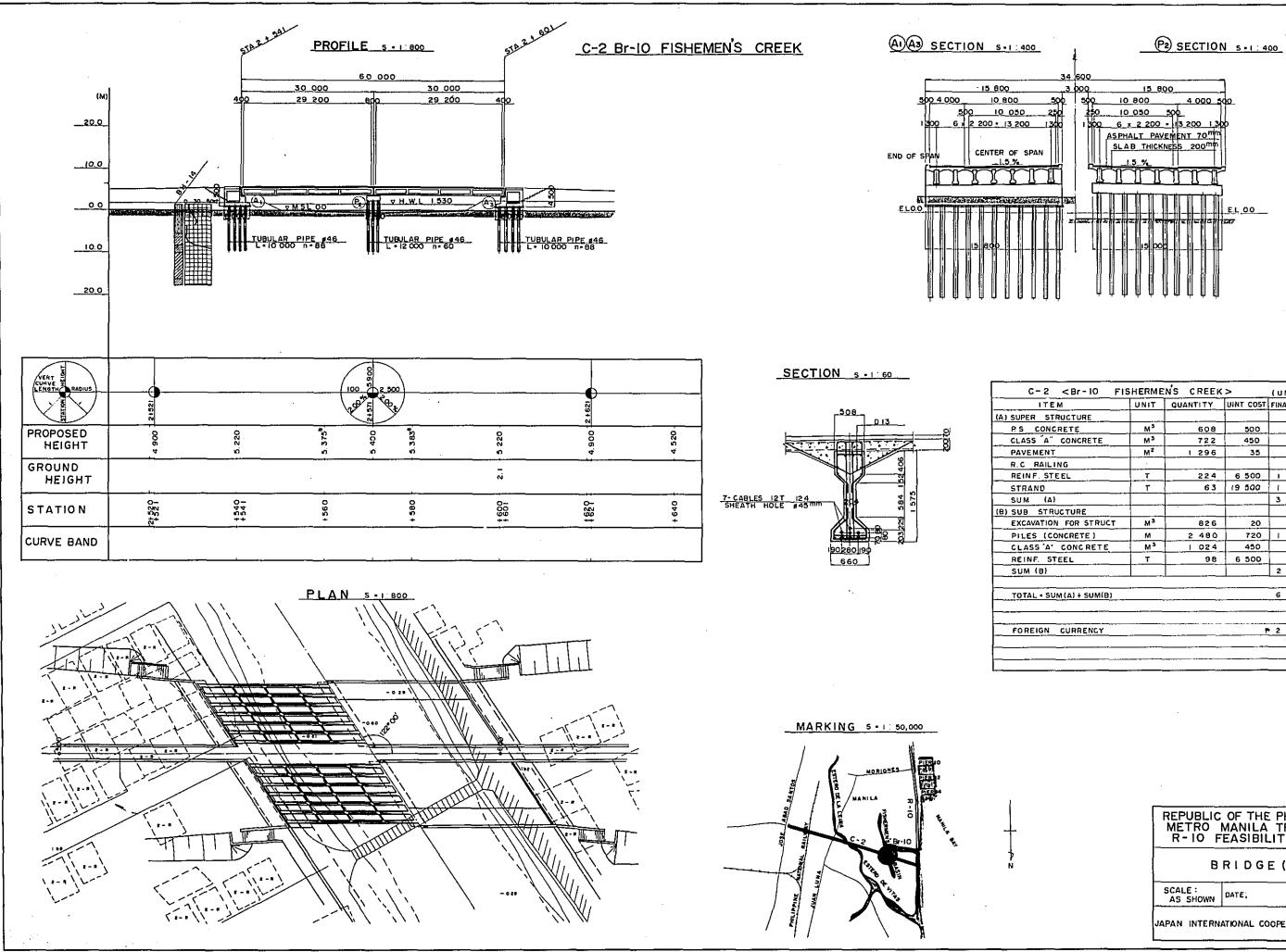
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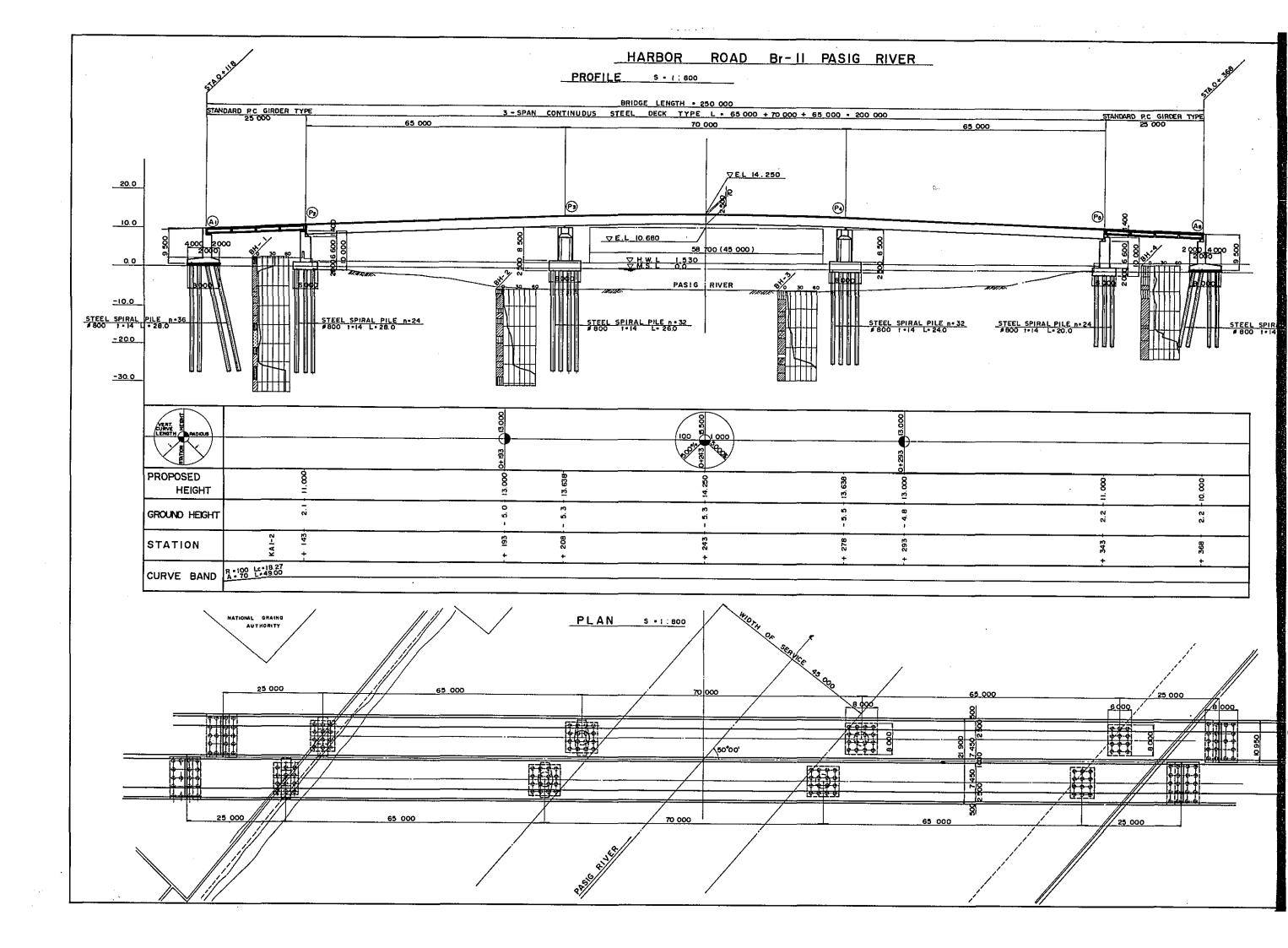
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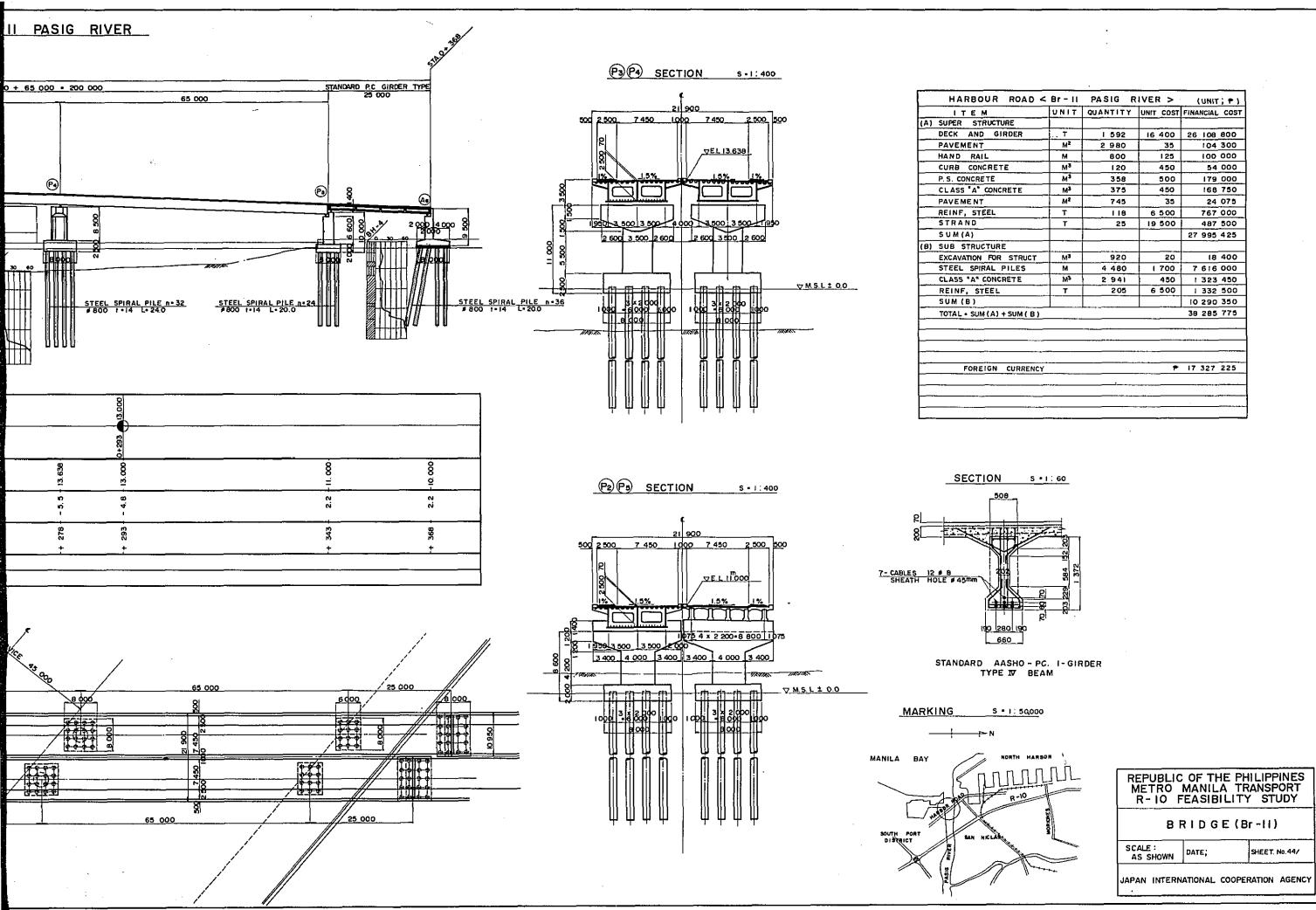
2 < Br-9	ESTERO	DE VITAS	>	(UNIT ; 🔫)
м	UNIT	QUANTITY	UNIT COST	FINANCIAL COST
RUCTURE				
RETE	M3	304	500	152 000
CONCRETE	M3	355	450	159 7 50
	M ²	648	35	22 680
IG				l
EL	т		6 500	721 500
	T	31	19 500	604 500
		•		1 660 4 30
TURE				
FOR STRUCT.	M ³	_		
NCRETE)	м	2 8 1 6	720	2 027 5 20
CONCRETE	M3	846	450	380 700
EEL	т	85	6 500	552 500
· · · · · · · · · · · · · · · · · · ·				2 960 720
			•	
M(A)+ SUM(B)				4 621 150
	·			
			_	
CURRENCY			••••••	2 065 585
,				



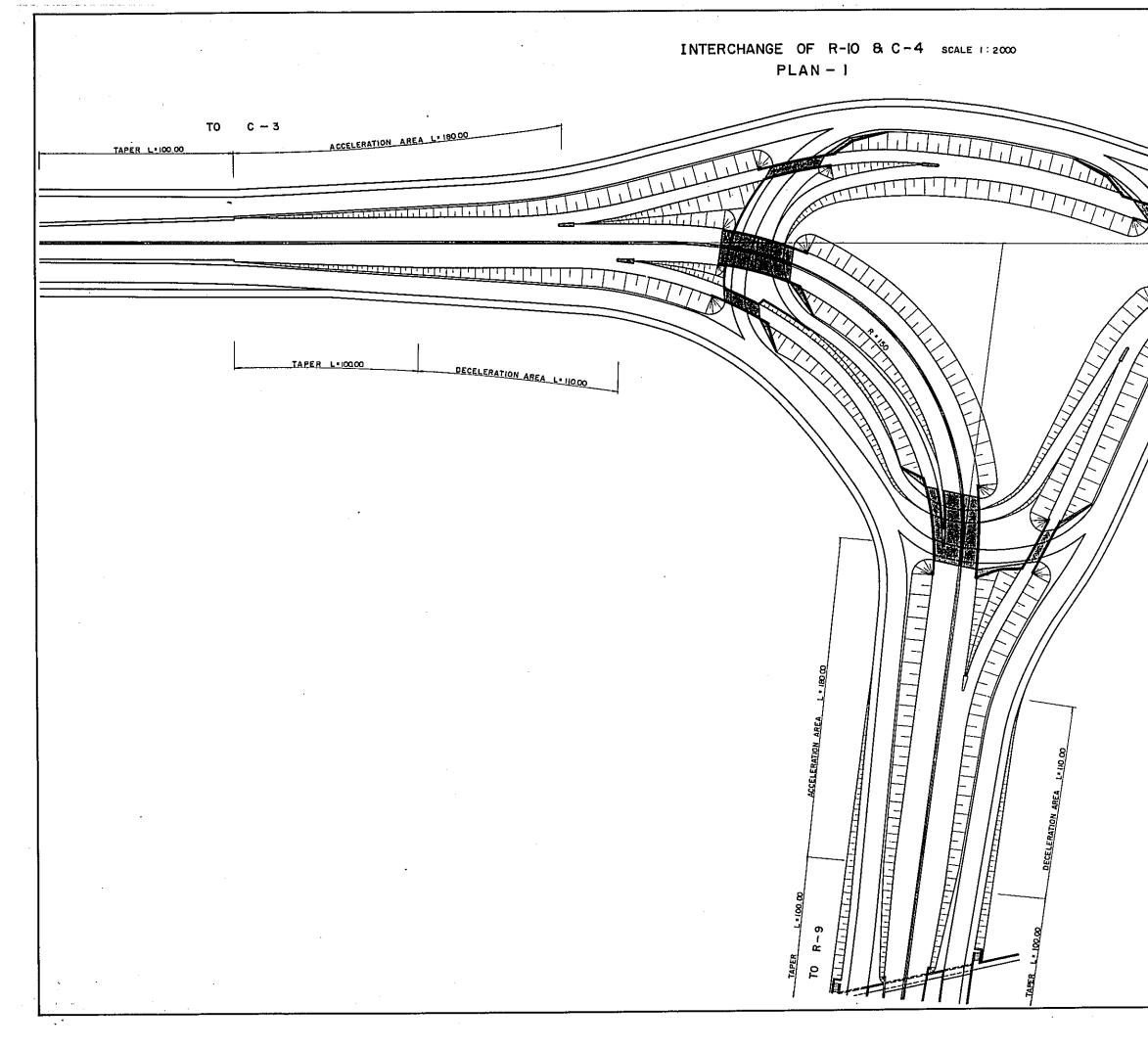
< Br - 10	FISHERN	IENS	CREE	к>		(บ	NIT	; =)
vi	UNIT	au,	ANTITY	אוט	r cost	FIN	ANCIAL	COST
UCTURE								
RETE	M		608		500		304	000
CONCRETE	M ³		722		450		324	900
	M ²		1 296		35		45	360
16				_		1		
EL	т		224	6	500	1	456	000
	۳	1	63	19	500	1	228	500
						3	358	760
CTURE						<u> </u>		
FOR STRUC	T M ³		826	_	20		16	5 20
NCRETE)	M		2 480	,	720	1	785	600
CONCRETE	M	5	1 024		450	1	460	800
SEL	т		98	6	500		637	000
						2	899	920
						_		
A(A) + SUM(B))					6	258	680
				···				
CURRENCY						• 2	777	140
	v		·			·		
<u></u>								
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REPUBLIC OF THE PHILIPPINES METRO MANILA TRANSPORT R-10 FEASIBILITY STUDY							
BRIDGE (Br-IQ)							
SCALE: AS SHOWN							
JAPAN INTERNATIONAL COOPERATION AGENCY							

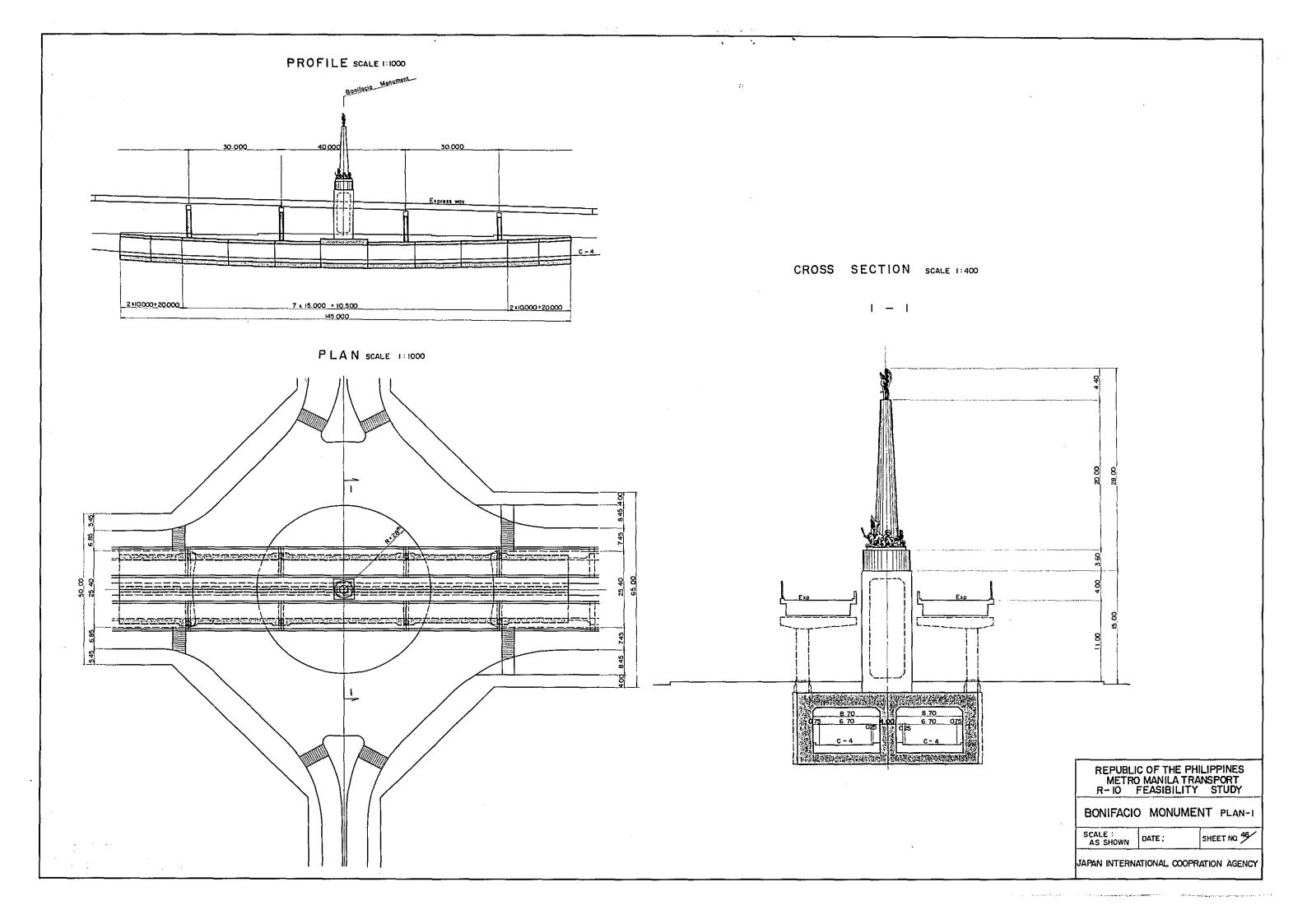


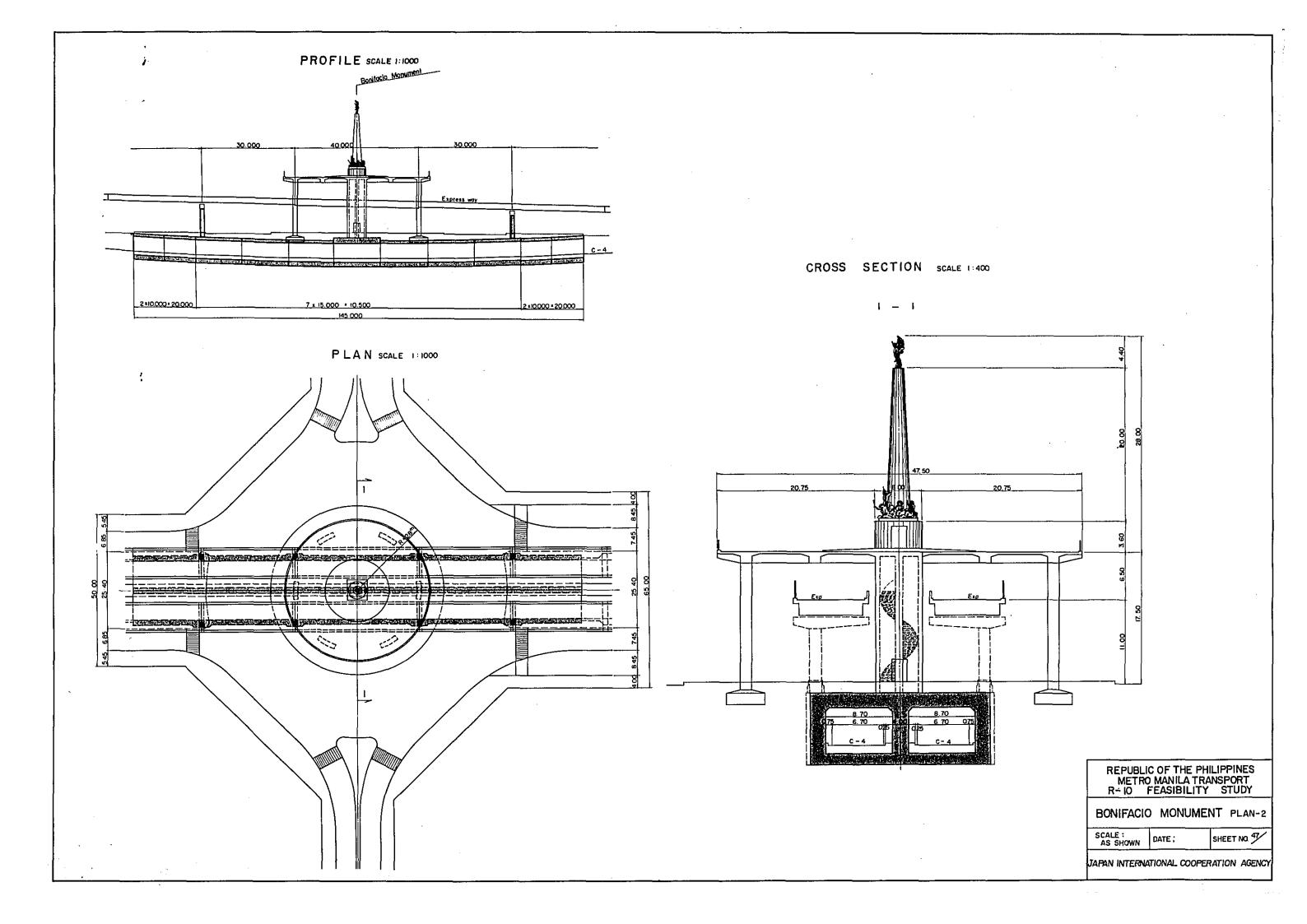


	8r - 11	PASIG R	VER >	(UNIT; 🕈)
	UNIT	QUANTITY	UNIT COST	FINANCIAL COST
_		1 5 9 2	16 400	26 108 800
	M ²	2 980	35	104 300
_	M	800	125	100 000
	M ³	120	450	54 000
	M ₂	358	500	179 000
	M3	375	450	168 750
	M ₅	745	35	24 075
	Ť	118	6 5 0 0	767 000
_	Т	25	19 500	487 500
				27 995 425
	Ma	920	20	18 400
	M	4 480	1 700	7 616 000
_	M3	2 9 4 1	450	1 323 450
	т	205	6 500	1 332 500
				10 290 350
				38 285 775
_				
			,	17 327 225



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		AGE OF EXI	
	SCALE : AS SHOWN	DATE;	SHEET NO. 45
		IATIONAL COOPE	RATION AGENCY
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