










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 -  RESIDENTIAL WITH COMMERCIAL
 -  RESIDENTIAL LOW DENSITY
 -  RESIDENTIAL HIGH DENSITY
 -  INSTITUTIONAL
 -  RECREATIONAL AND RESERVE
 -  EDUCATIONAL AND MEDICAL
 -  INDUSTRIAL
 -  TRANSPORTATION



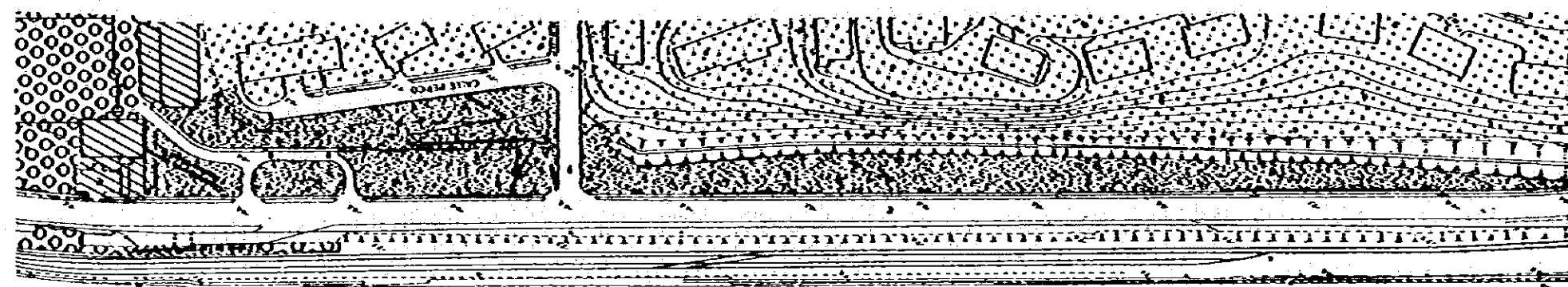
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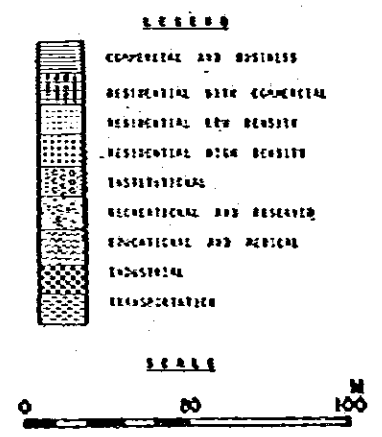
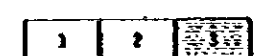
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<p>TITLE LAND USE PLAN ALONG VIA CERRO ANCON (I) TITULO USO DE SUELO A LO LARGO DE VIA CERRO ANCON (I)</p>	<p>SCALE ESCALA DATE FECHA</p>	<p>PAGE NO. PAGINA NO. 19 DRAW NO. HOJA NO.</p>				



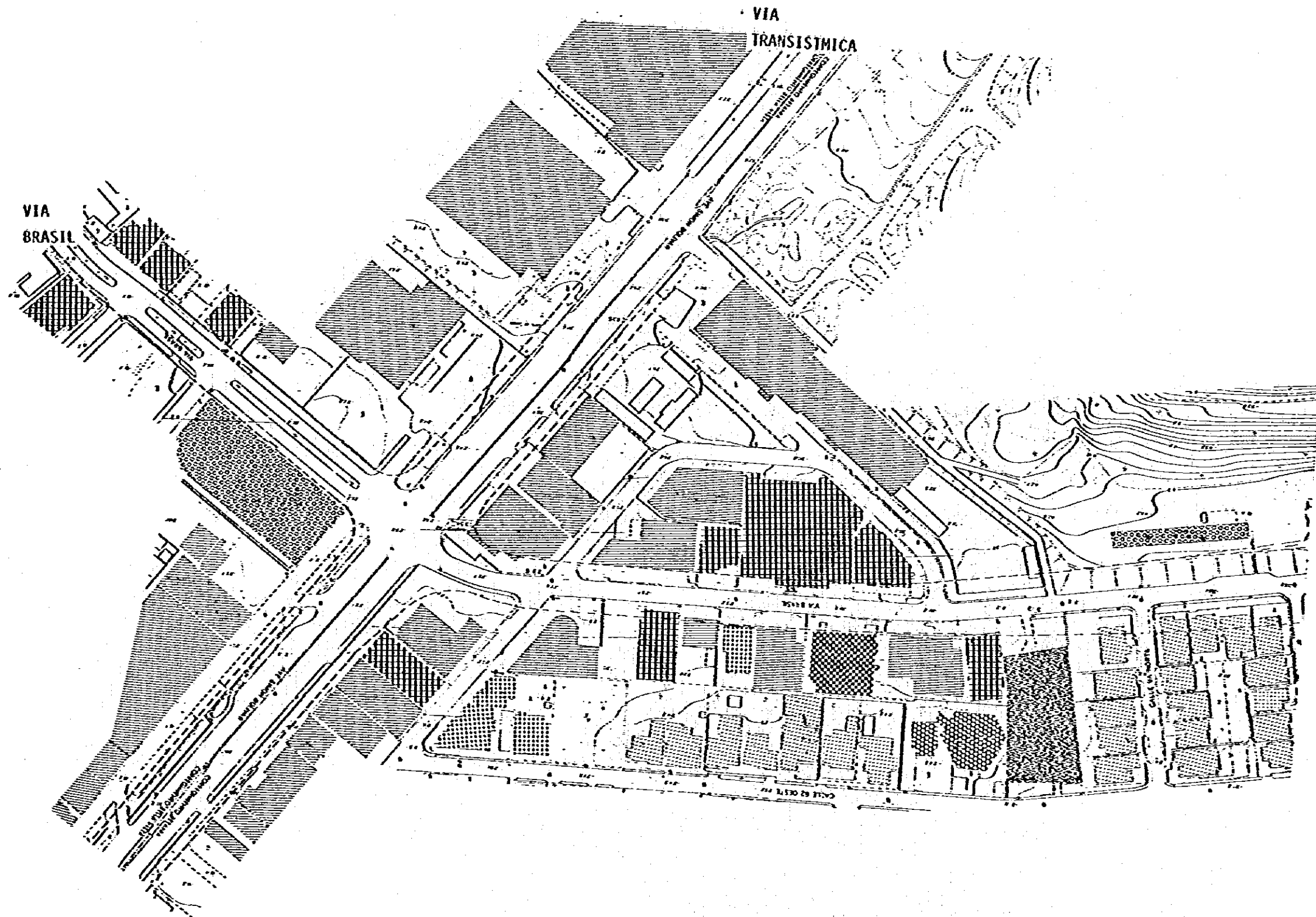
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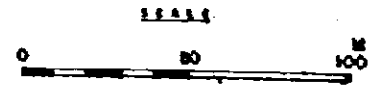
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<p>MOP MINISTRY OF PUBLIC WORKS THE REPUBLIC OF PANAMA REPUBLICA DE PANAMA MINISTERIO DE OBRAS PUBLICAS</p>	<p>ESTAMPA II</p>	<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON</p>	<p>THE FEASIBILITY STUDY ON URBAN TRANSPORT PROJECT IN PANAMA METROPOLITAN AREA ESTUDIO DE FACTIBILIDAD DE PROYECTOS DE TRANSPORTE URBANO PARA EL AREA METROPOLITANA</p> <table border="1"> <tr> <td>TITLE</td> <td>LAND USE PLAN ALONG VIA CERRO ANCON (2)</td> <td>SCALE</td> <td>PAGE NO. 20</td> </tr> <tr> <td>TITULO</td> <td>USO DE SUELO A LO LARGO DE VIA CERRO ANCON (2)</td> <td>DATE</td> <td>DIA Y NO. NO.</td> </tr> </table>	TITLE	LAND USE PLAN ALONG VIA CERRO ANCON (2)	SCALE	PAGE NO. 20	TITULO	USO DE SUELO A LO LARGO DE VIA CERRO ANCON (2)	DATE	DIA Y NO. NO.
TITLE	LAND USE PLAN ALONG VIA CERRO ANCON (2)	SCALE	PAGE NO. 20								
TITULO	USO DE SUELO A LO LARGO DE VIA CERRO ANCON (2)	DATE	DIA Y NO. NO.								



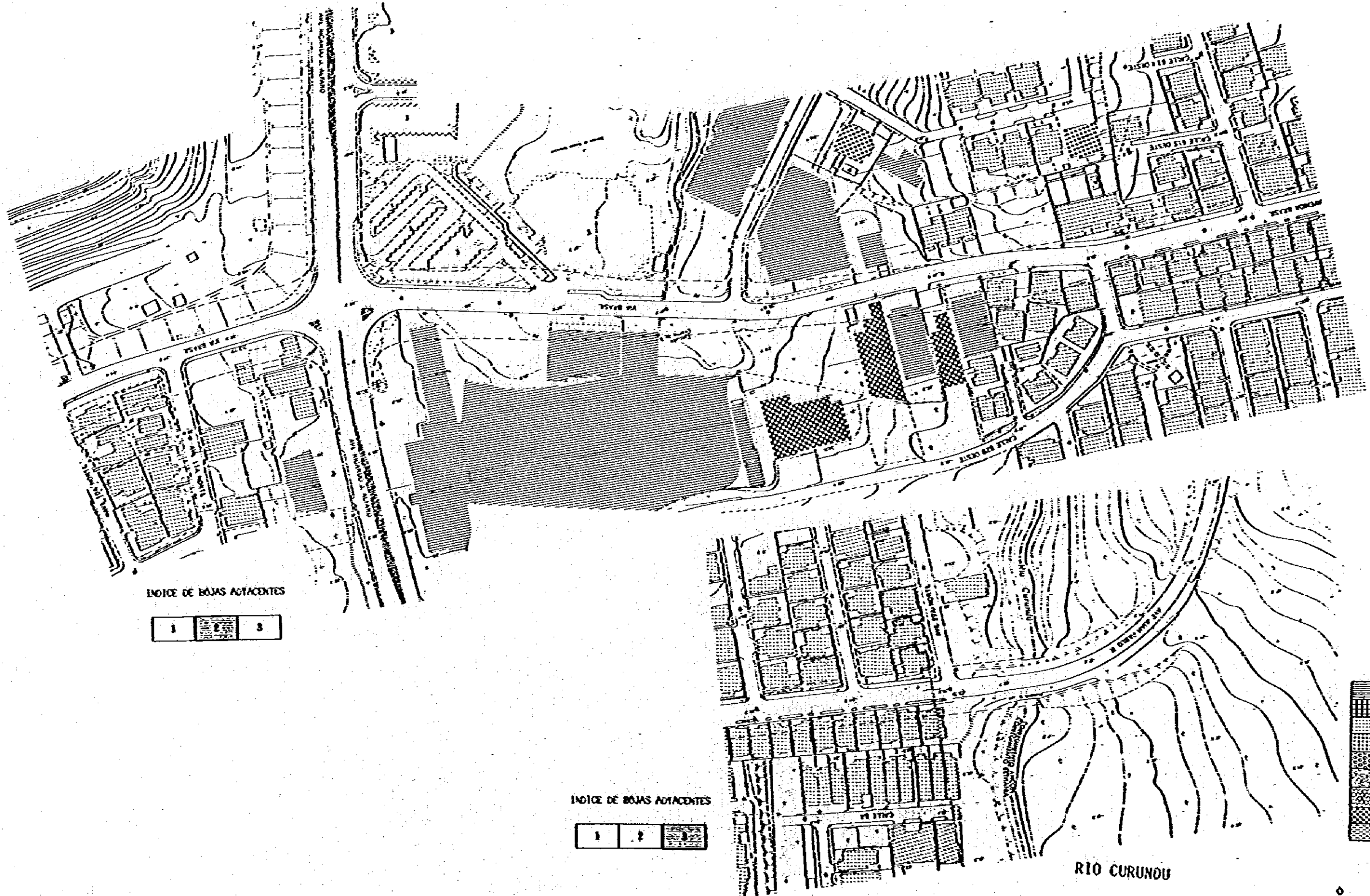
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 -  RESIDENTIAL LOW DENSITY
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 -  EDUCATIONAL AND MEDICAL
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 -  TRANSPORTATION



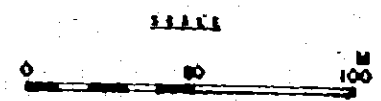
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			<p>TITLE: CURRENT BUILDING USE ALONG VIA EL PAICAL (1) TITULO: USO COMUN DE EDIFICIOS A LO LARGO DE LA VIA EL PAICAL (1)</p>	<p>SCALE: _____ ESCALA: _____ DATE: _____ FECHA: _____</p>	<p>PAGE NO.: 21 PAGE NO.: 21 Dwg No.: _____ Hoja No.: _____</p>



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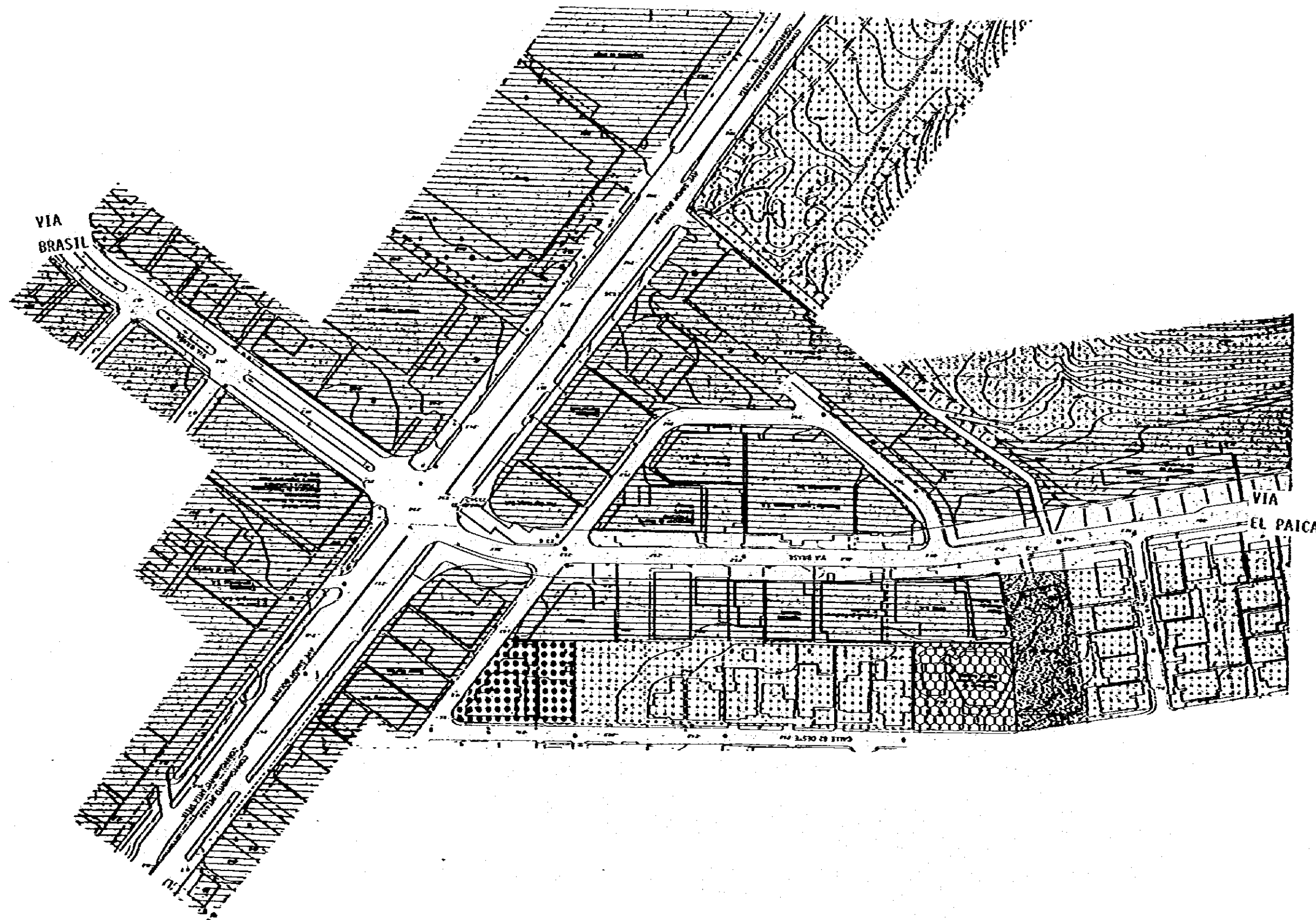











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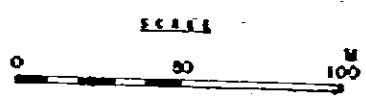
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JICA
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 COOPERATION AGENCY
 AGENCIA DE COOPERACION
 INTERNACIONAL DEL JAPON

THE FEASIBILITY STUDY ON URBAN TRANSPORT PROJECT IN PANAMA METROPOLITAN AREA			PAGE NO. 22
ESTUDIO DE FACTIBILIDAD DE PROYECTOS DE TRANSPORTE URBANO PARA EL AREA METROPOLITANA			
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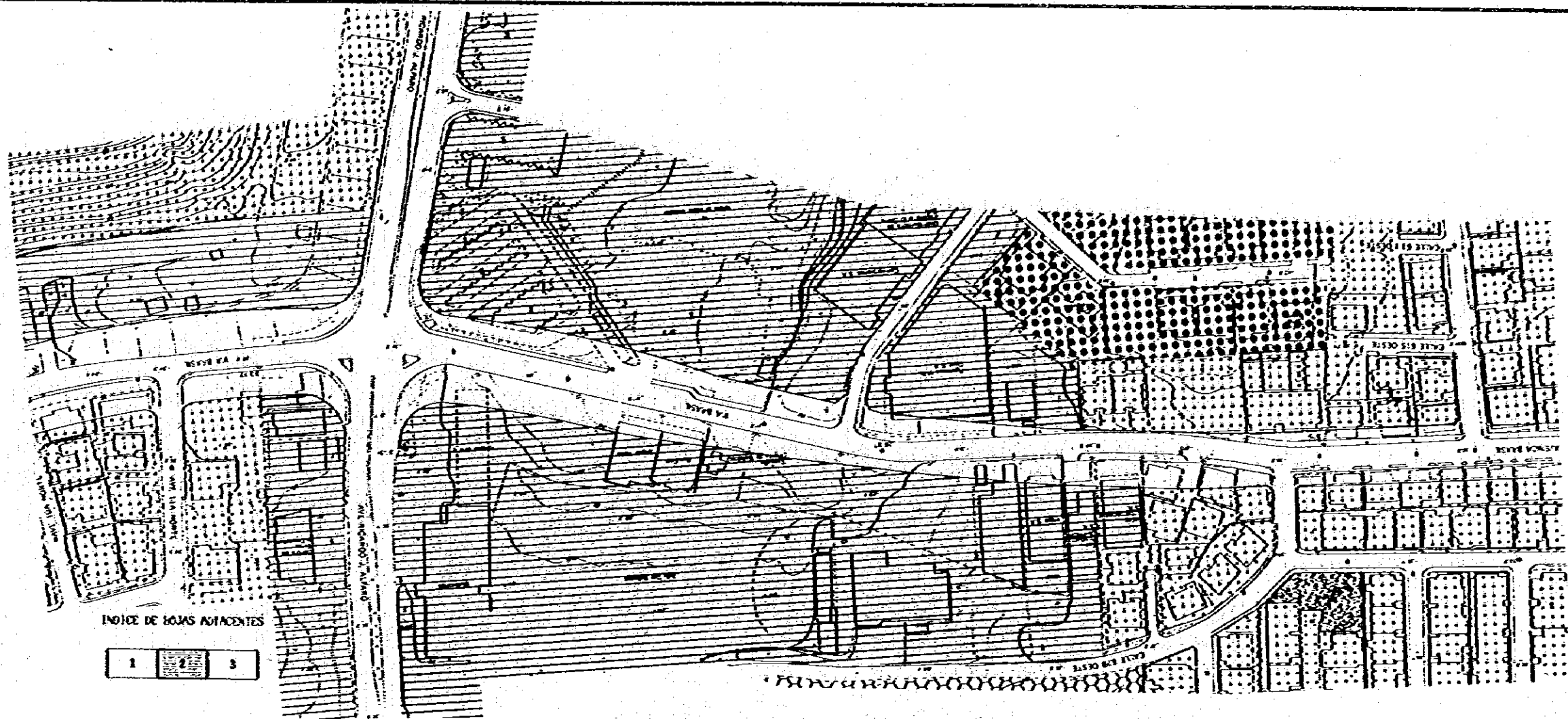


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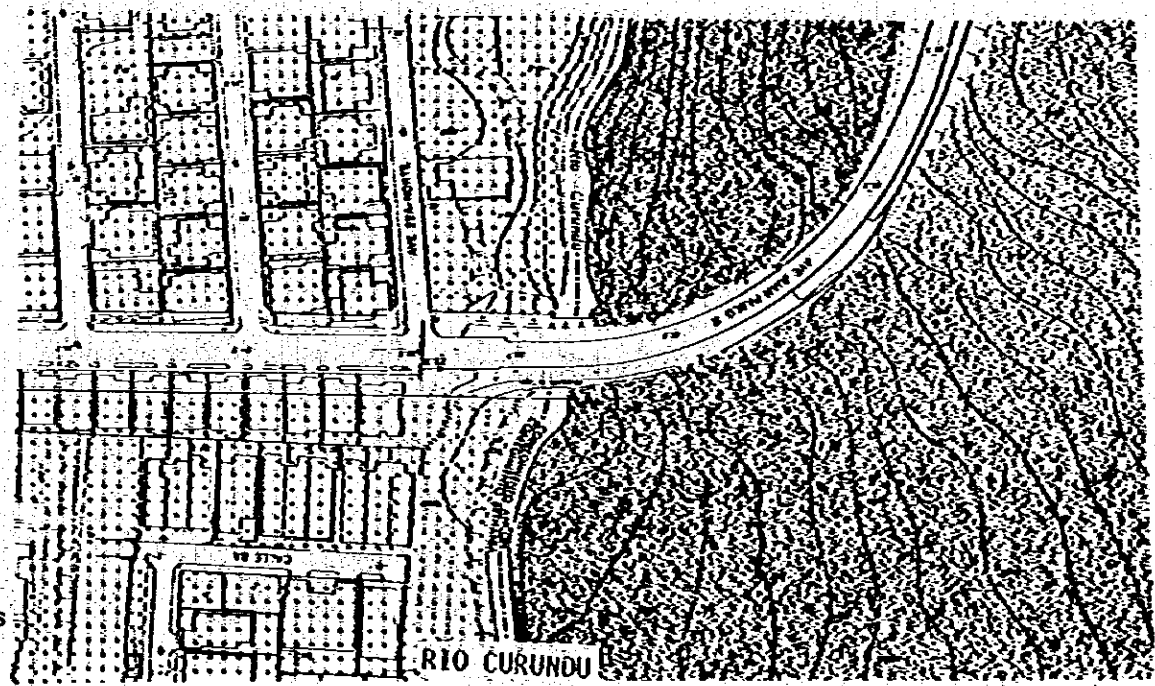


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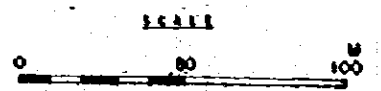
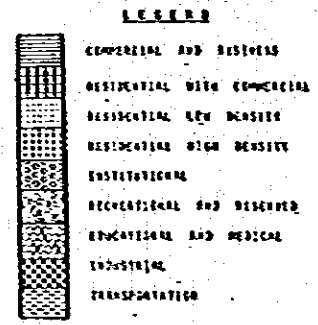
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<p>TITLE: LAND USE PLAN ALONG VIA EL PAICAL (I) TITULO: USO DE SUELO A LO LARGO DE LA VIA EL PAICAL (I)</p>		<p>SCALE: ESCALA DATE: FECHA</p>	<p>PAGE NO.: PAGINA NO. 23 SHEET NO.: HOJA NO.</p>	



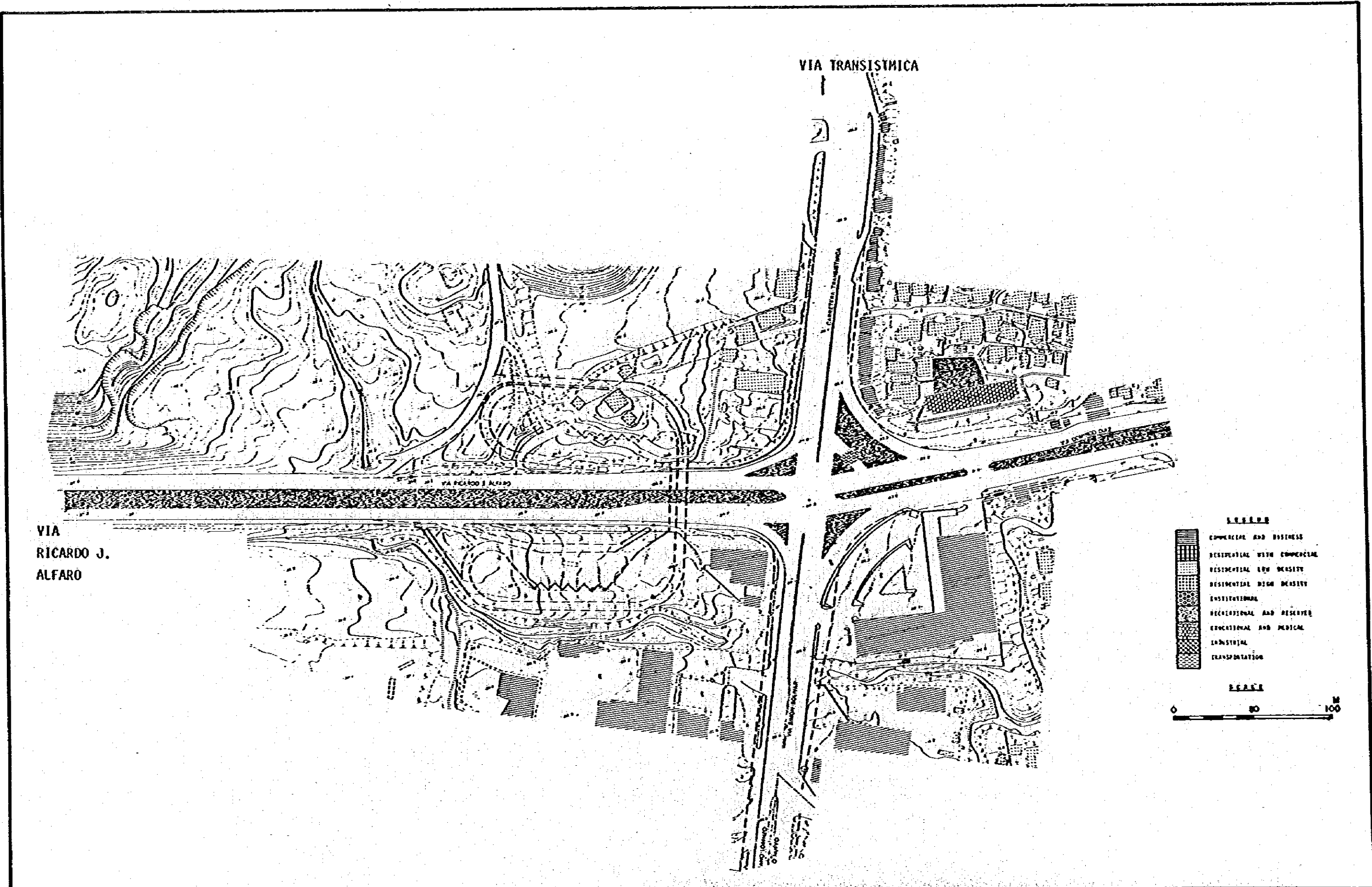
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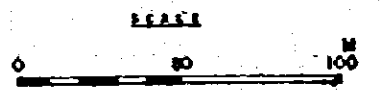
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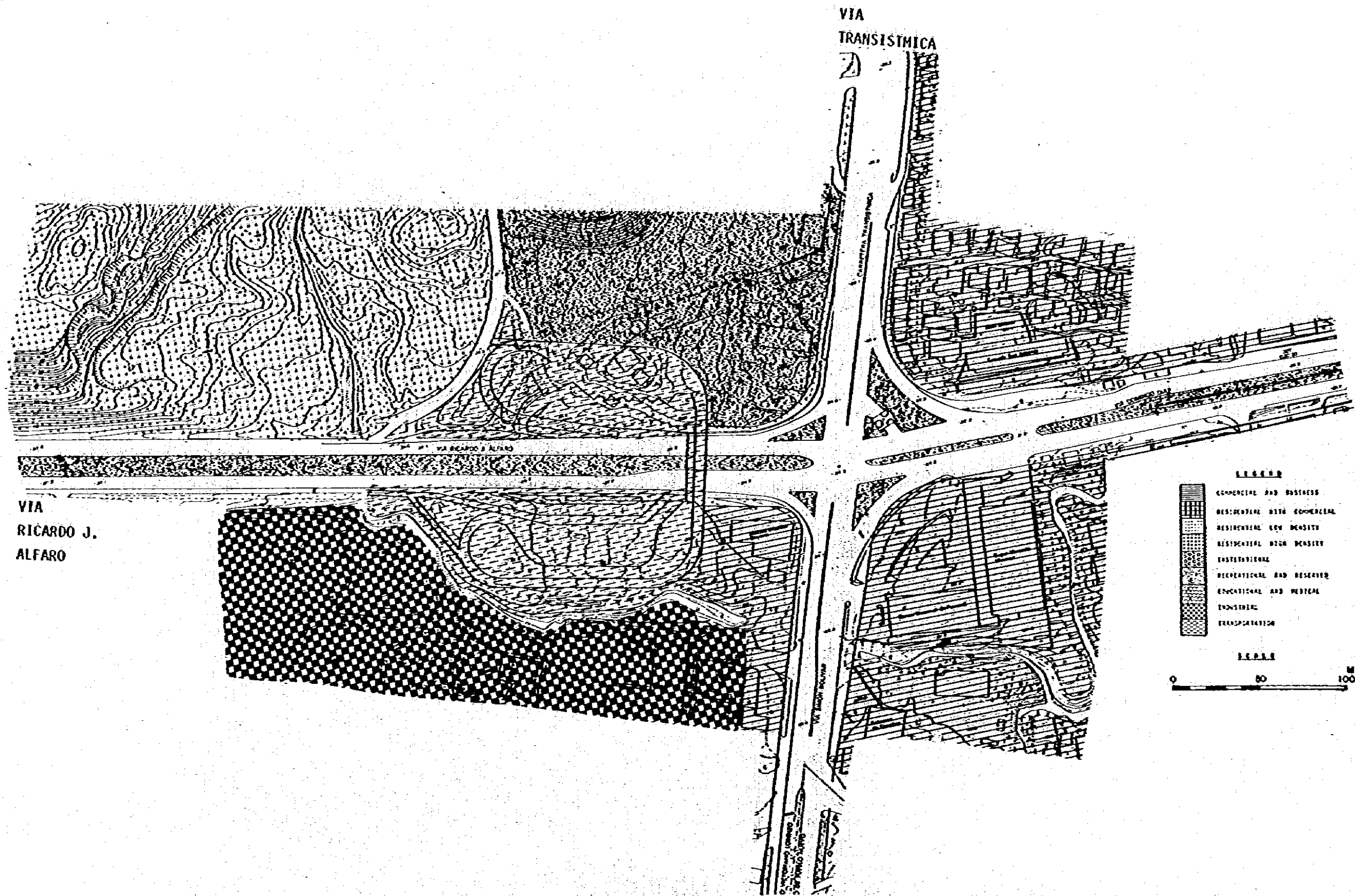
VIA
RICARDO J.
ALFARO

VIA TRANSISTMICA

- LEGENDA**
- COMMERCIAL AND BUSINESS
 - RESIDENTIAL WITH COMMERCIAL
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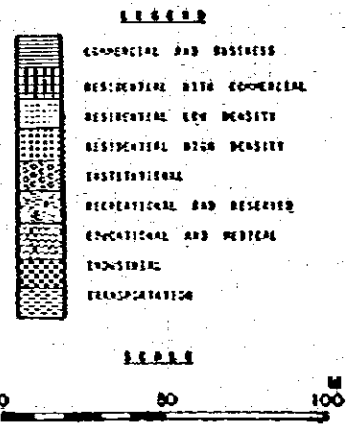


<p>MOP MINISTRY OF PUBLIC WORKS THE REPUBLIC OF PANAMA REPUBLICA DE PANAMA MINISTERIO DE OBRAS PUBLICAS</p>	<p>ESTAMPA II</p>	<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON</p>	<p>THE FEASIBILITY STUDY ON URBAN TRANSPORT PROJECT IN PANAMA METROPOLITAN AREA ESTUDIO DE FACTIBILIDAD DE PROYECTOS DE TRANSPORTE URBANO PARA EL AREA METROPOLITANA</p> <table border="1"> <tr> <td data-bbox="1380 1869 2107 1921"> <p>TITLE: CURRENT BUILDING USE AROUND SAN AGUSTIN INTERSECTION TITULO: USO COMUN DE EDIFICIOS ALREDEDOR DE LA INTERSECCION DE SAN AGUSTIN</p> </td> <td data-bbox="2122 1869 2448 1921"> <p>SCALE: ESCALA DATE: FECHA</p> </td> <td data-bbox="2463 1869 2760 1921"> <p>PAGE NO.: 25 FOLIO NO.: Dwg NO.: HOJA NO.:</p> </td> </tr> </table>	<p>TITLE: CURRENT BUILDING USE AROUND SAN AGUSTIN INTERSECTION TITULO: USO COMUN DE EDIFICIOS ALREDEDOR DE LA INTERSECCION DE SAN AGUSTIN</p>	<p>SCALE: ESCALA DATE: FECHA</p>	<p>PAGE NO.: 25 FOLIO NO.: Dwg NO.: HOJA NO.:</p>
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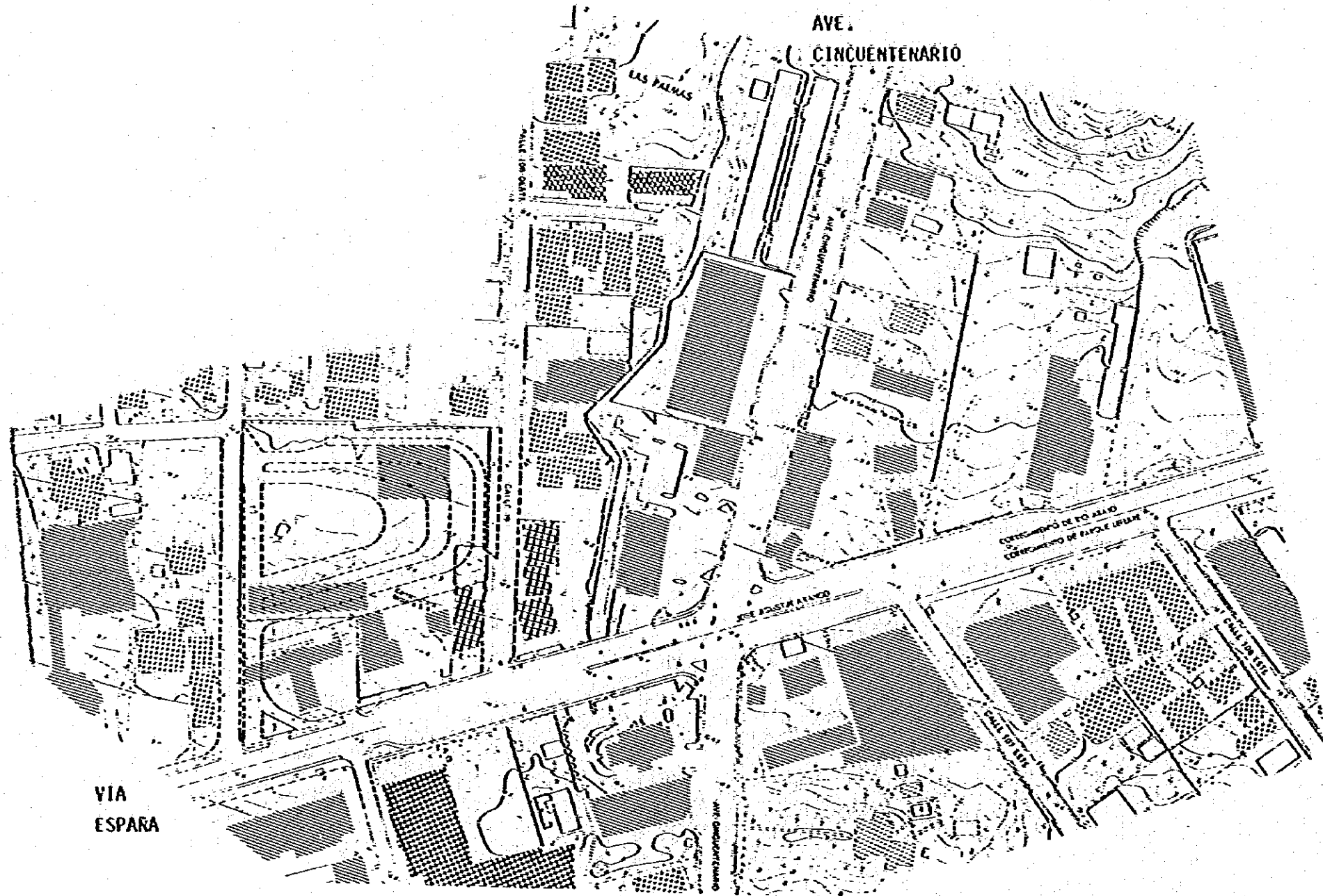











VIA
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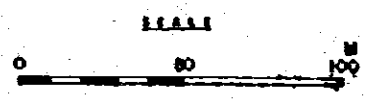
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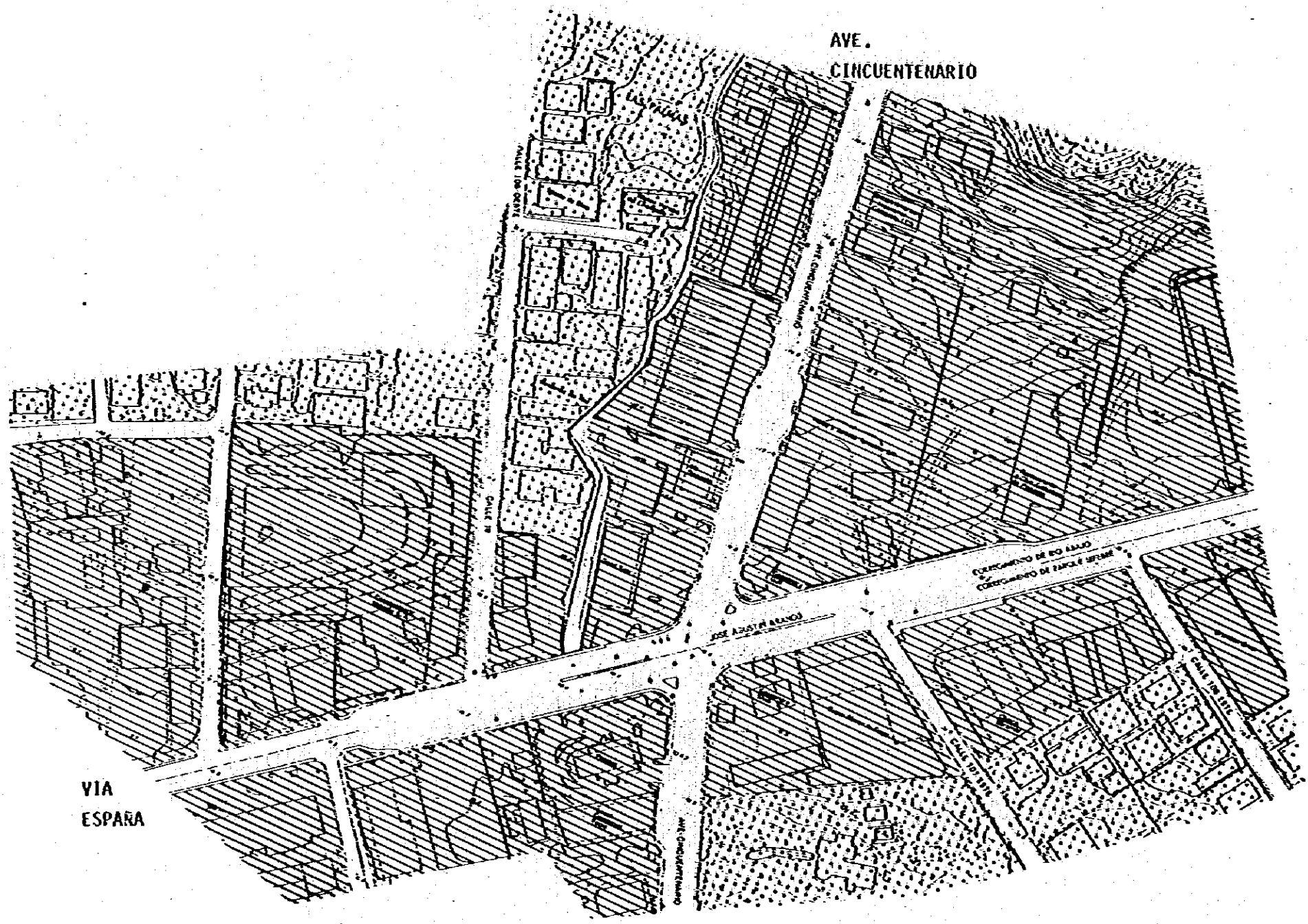
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			<p>TITLE LAND USE PLAN AROUND SAN MIGUELITO INTERSECTION TITULO USO DE SUELO ALREDEDOR DE LA INTERSECCION DE SAN MIGUELITO</p>	<p>SCALE ESCALE DATE FECHA</p>	<p>PAGE NO. PAGINA NO. 26 SHEET NO. HOJA NO.</p>












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MOP MINISTRY OF PUBLIC WORKS THE REPUBLIC OF PANAMA REPUBLICA DE PANAMA MINISTERIO DE OBRAS PUBLICAS	ESTAMPA II	JICA JAPAN INTERNATIONAL COOPERATION AGENCY AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON	THE FEASIBILITY STUDY ON URBAN TRANSPORT PROJECT IN PANAMA METROPOLITAN AREA ESTUDIO DE FACTIBILIDAD DE PROYECTOS DE TRANSPORTE URBANO PARA EL AREA METROPOLITANA		
			TITLE CURRENT BUILDING USE AROUND CHANIS BUS CENTER TITULO USO COMUN DE LOS EDIFICIOS ALREDEDOR DEL CENTRO DE BUSES CHANIS	SCALE ESCALA DATE FECHA	PAGE NO. 27 PÁGINA NO. 27 DRAWING NO. HOJA NO.



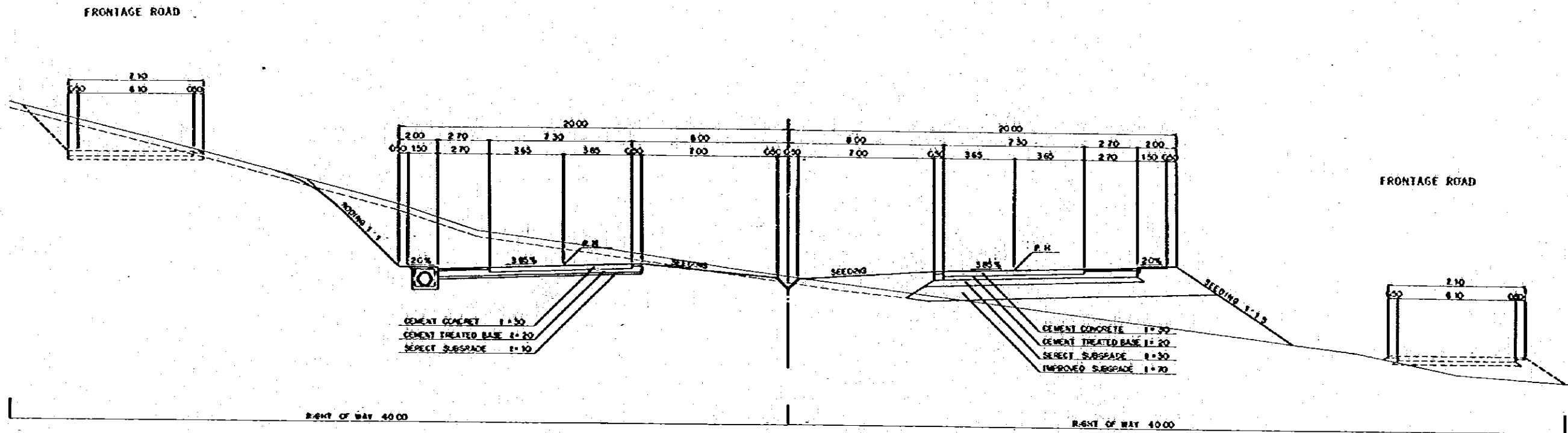
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TYPICAL CROSS SECTION SCALE 1:100

CORREDOR NORTE
(STA. 66 + 00)



MOP

MINISTRY OF PUBLIC WORKS
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REPUBLICA DE PANAMA
MINISTERIO DE OBRAS PUBLICAS

ESTAMPA II

JICA

JAPAN INTERNATIONAL
COOPERATION AGENCY
AGENCIA DE COOPERACION
INTERNACIONAL DEL JAPON

THE FEASIBILITY STUDY ON URBAN TRANSPORT PROJECT IN PANAMA METROPOLITAN AREA
ESTUDIO DE FACTIBILIDAD DE PROYECTOS DE TRANSPORTE URBANO PARA EL AREA METROPOLITANA

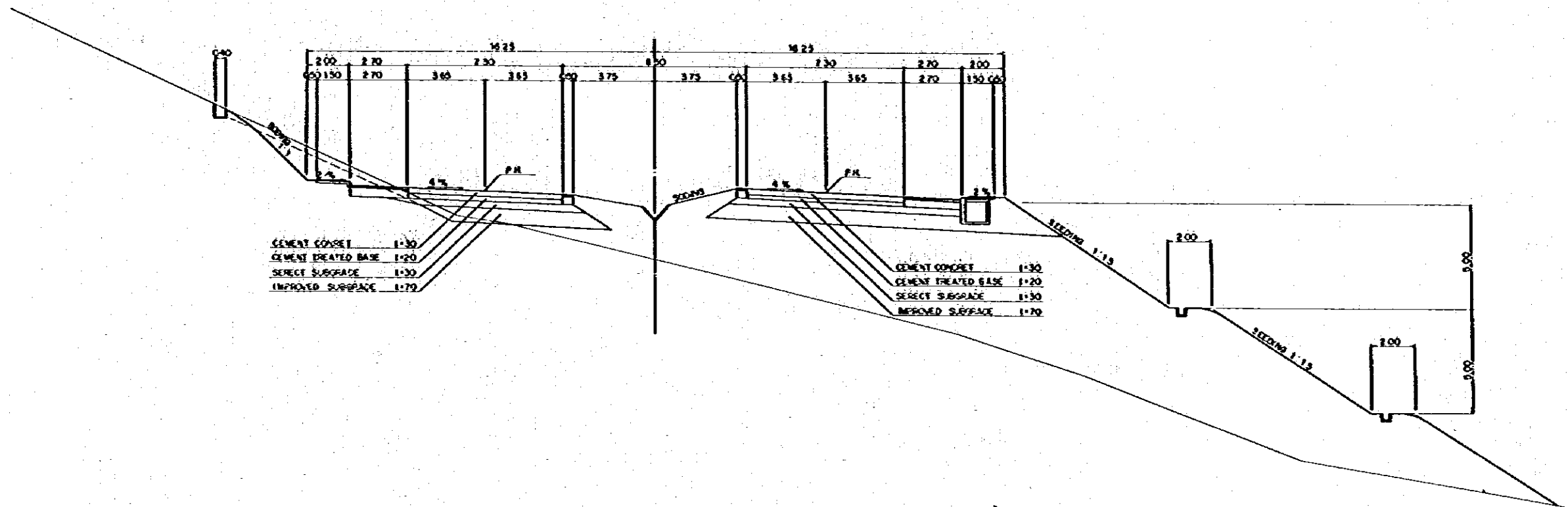
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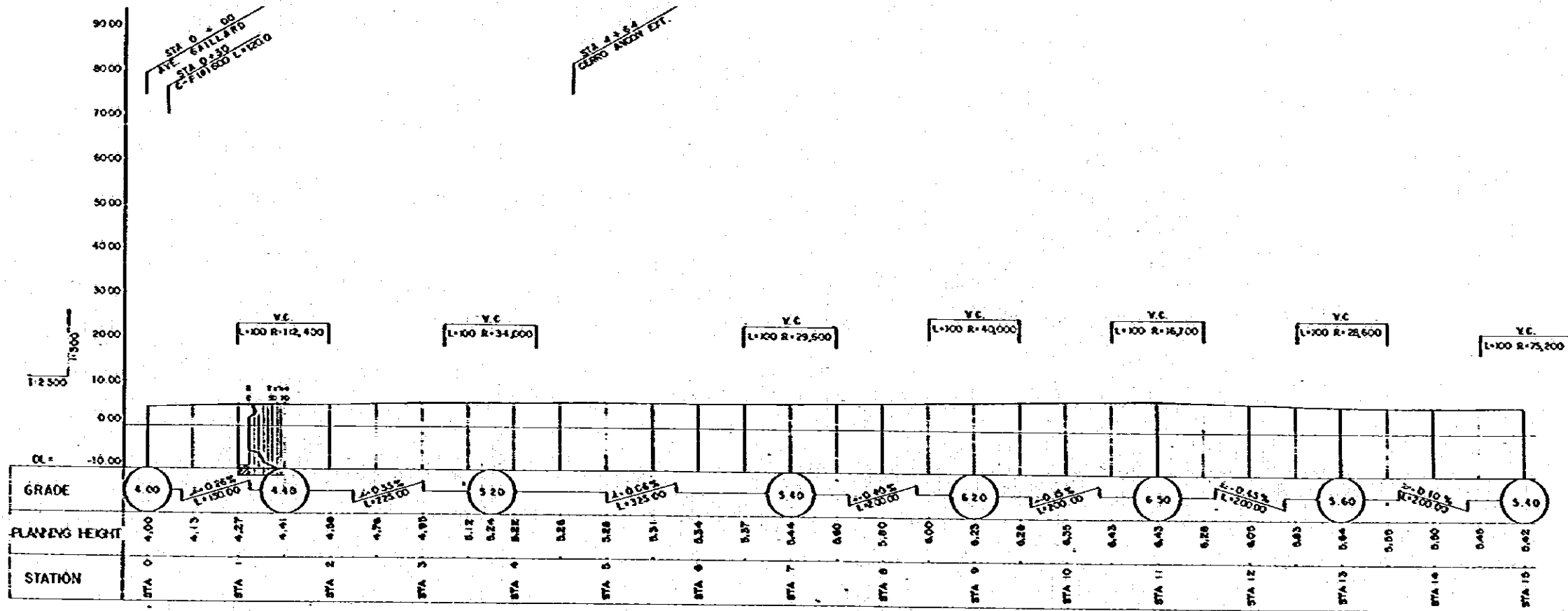
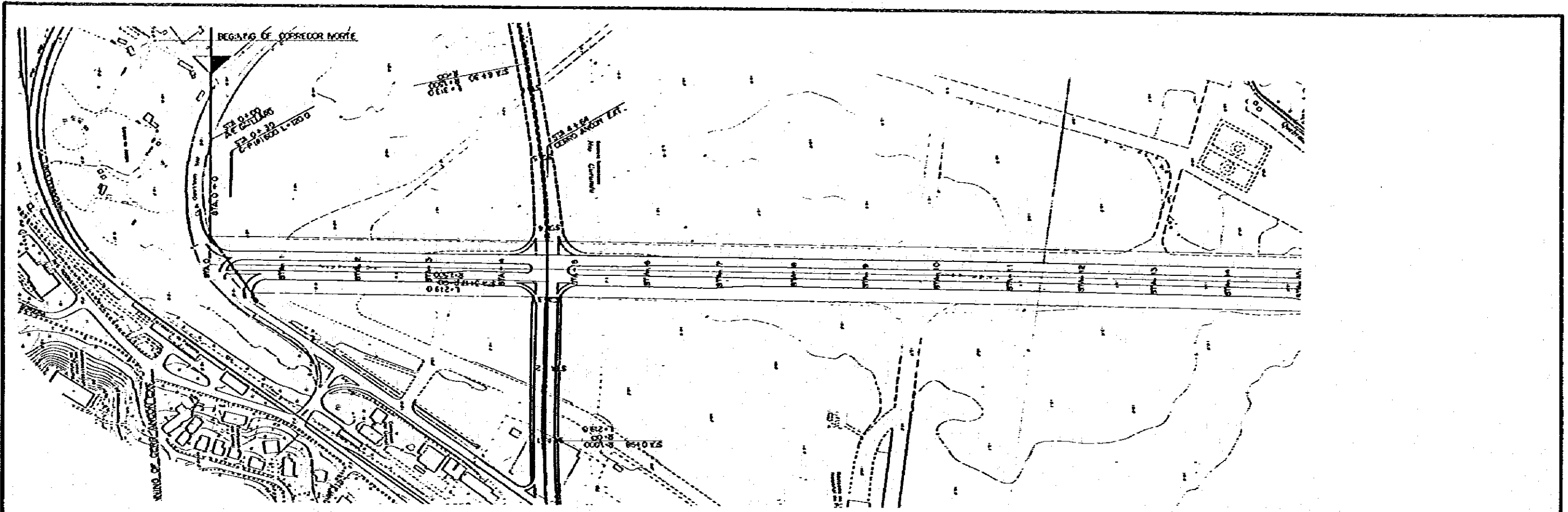
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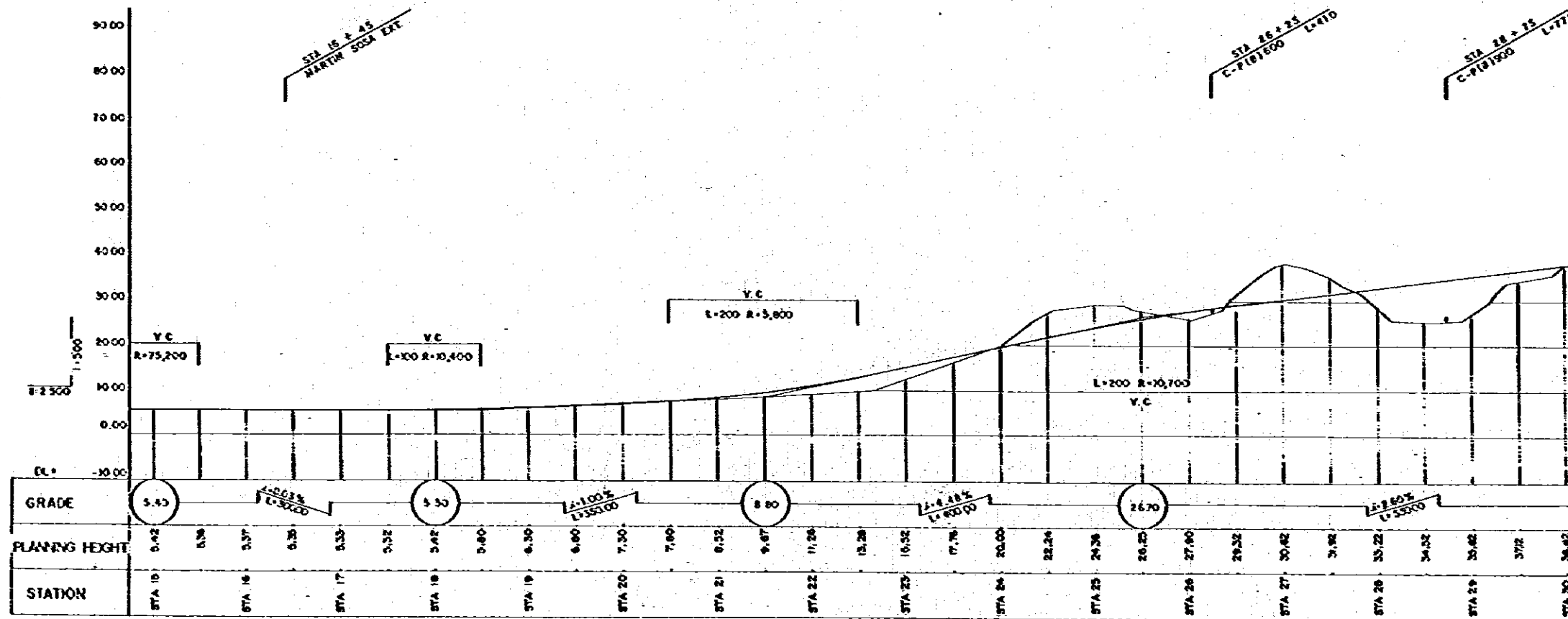
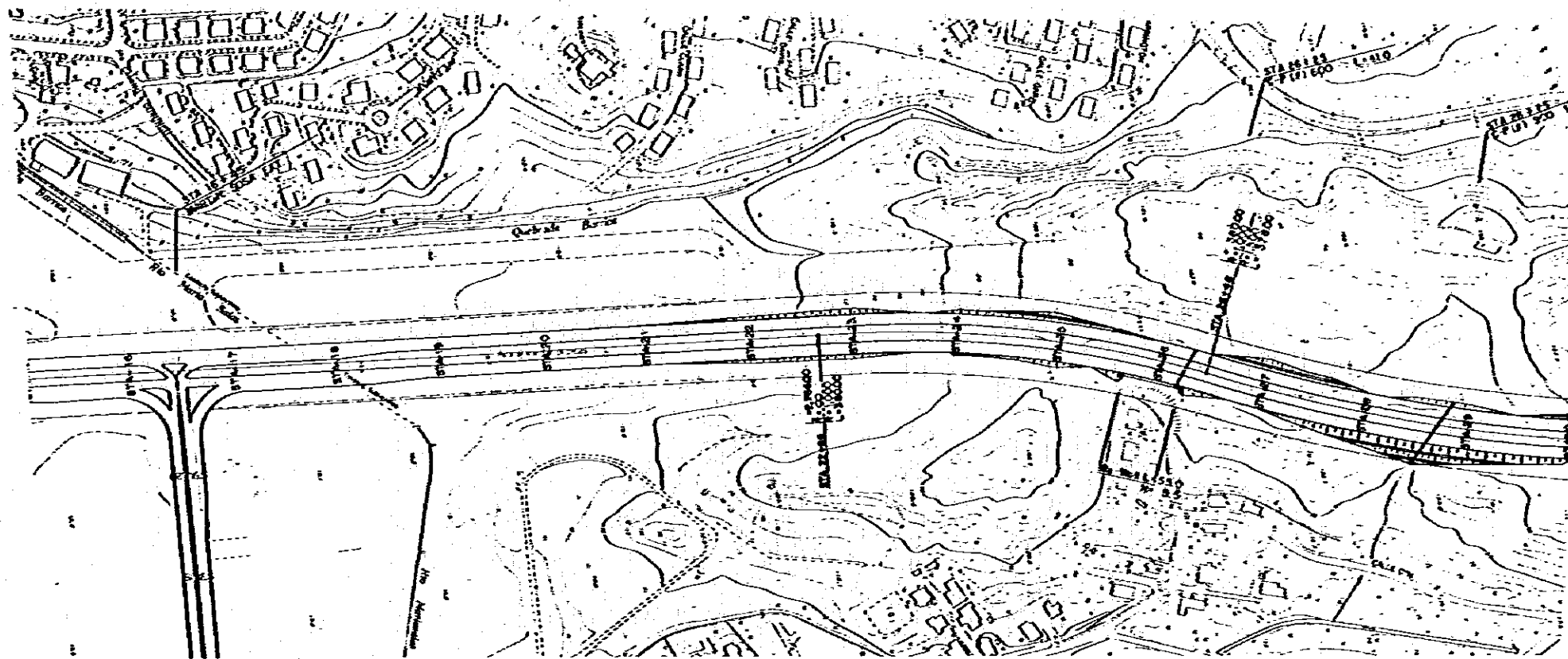
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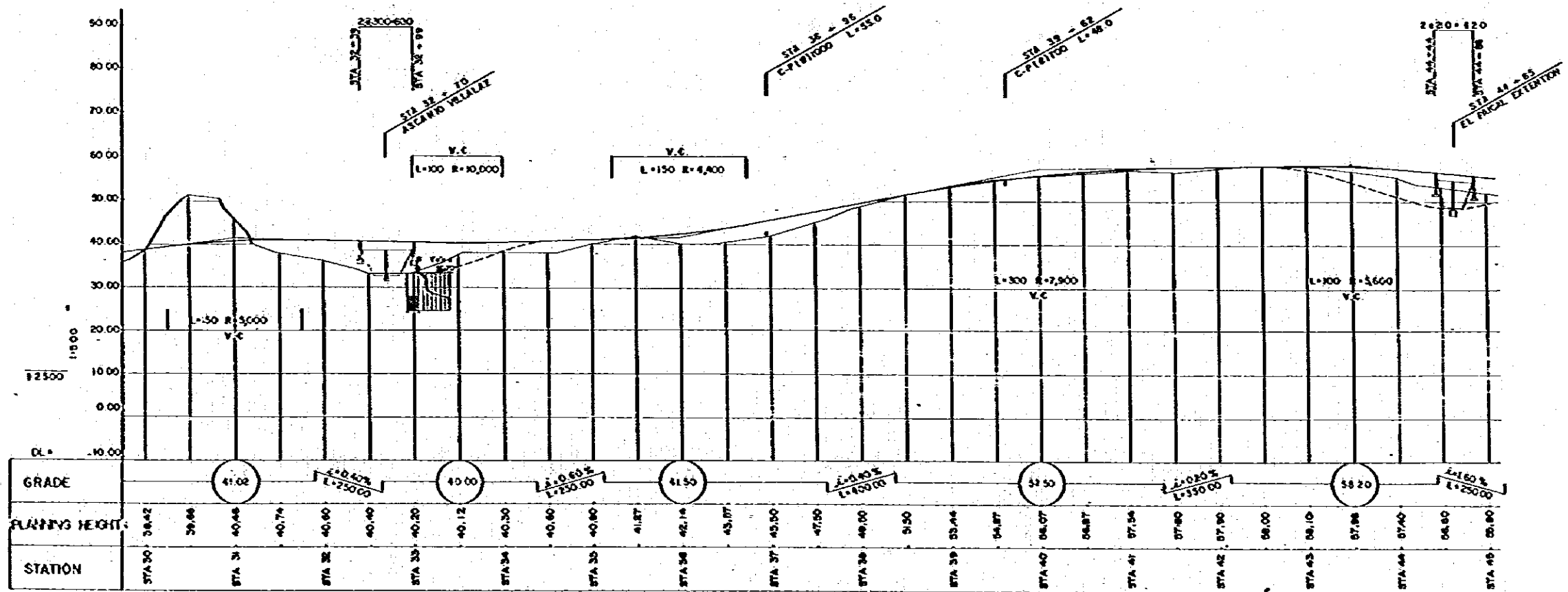
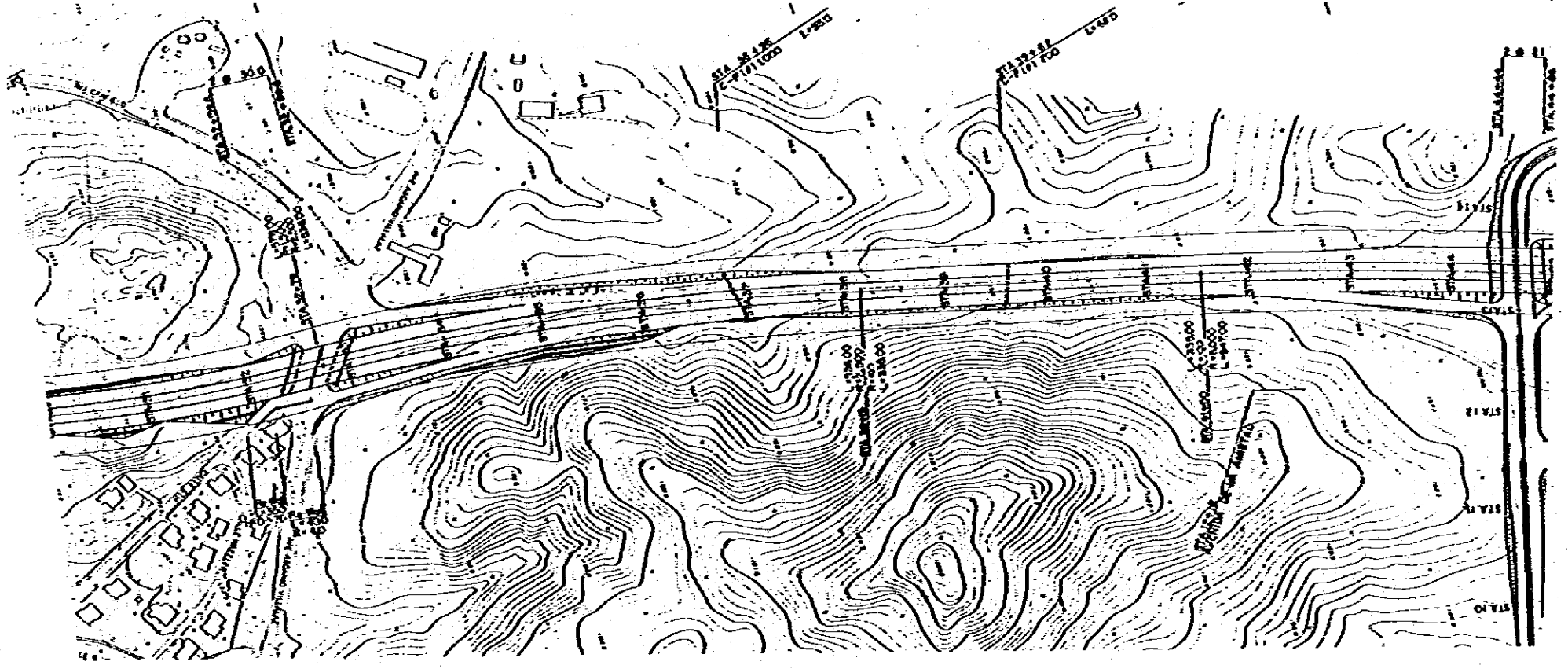
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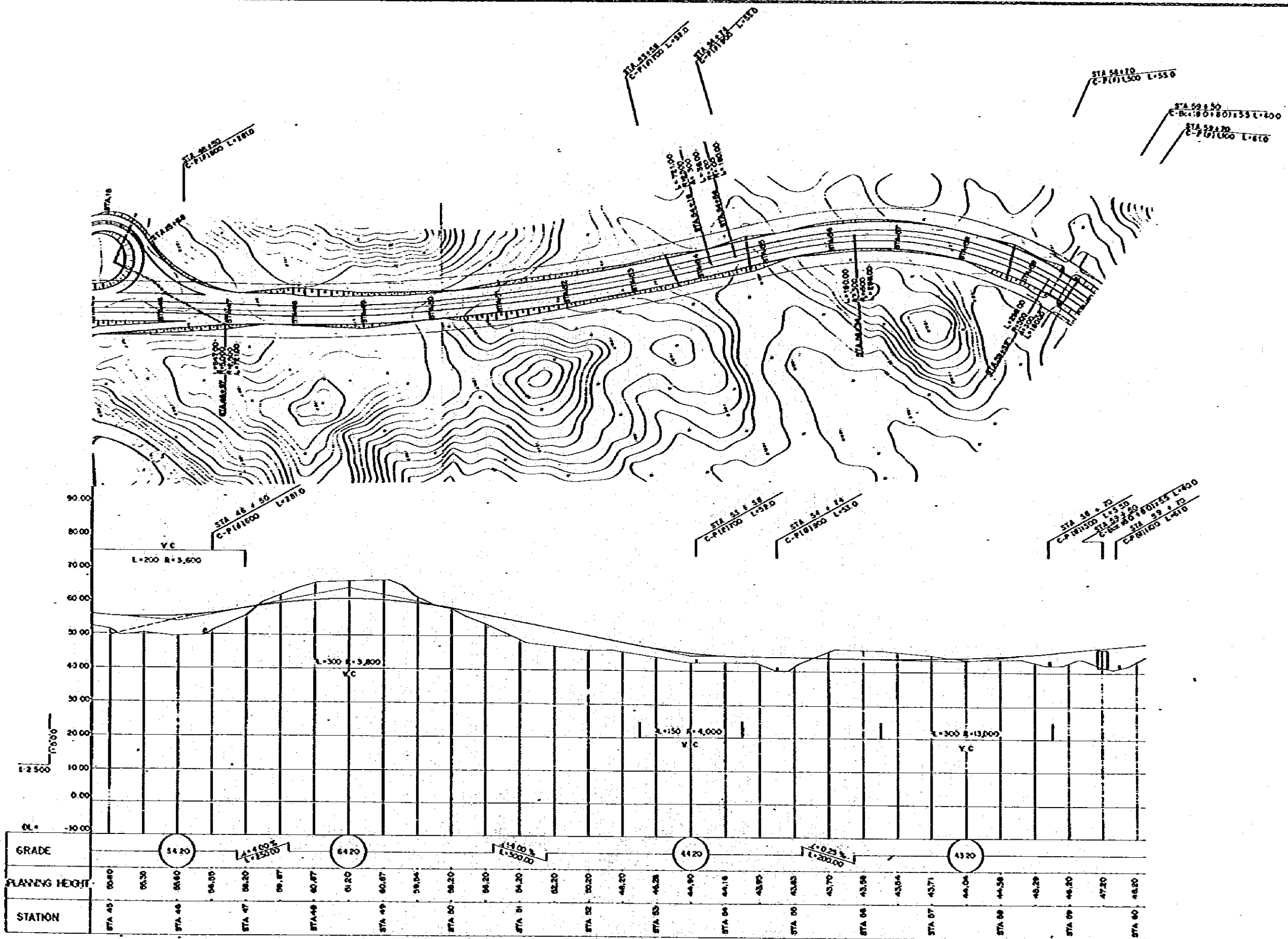


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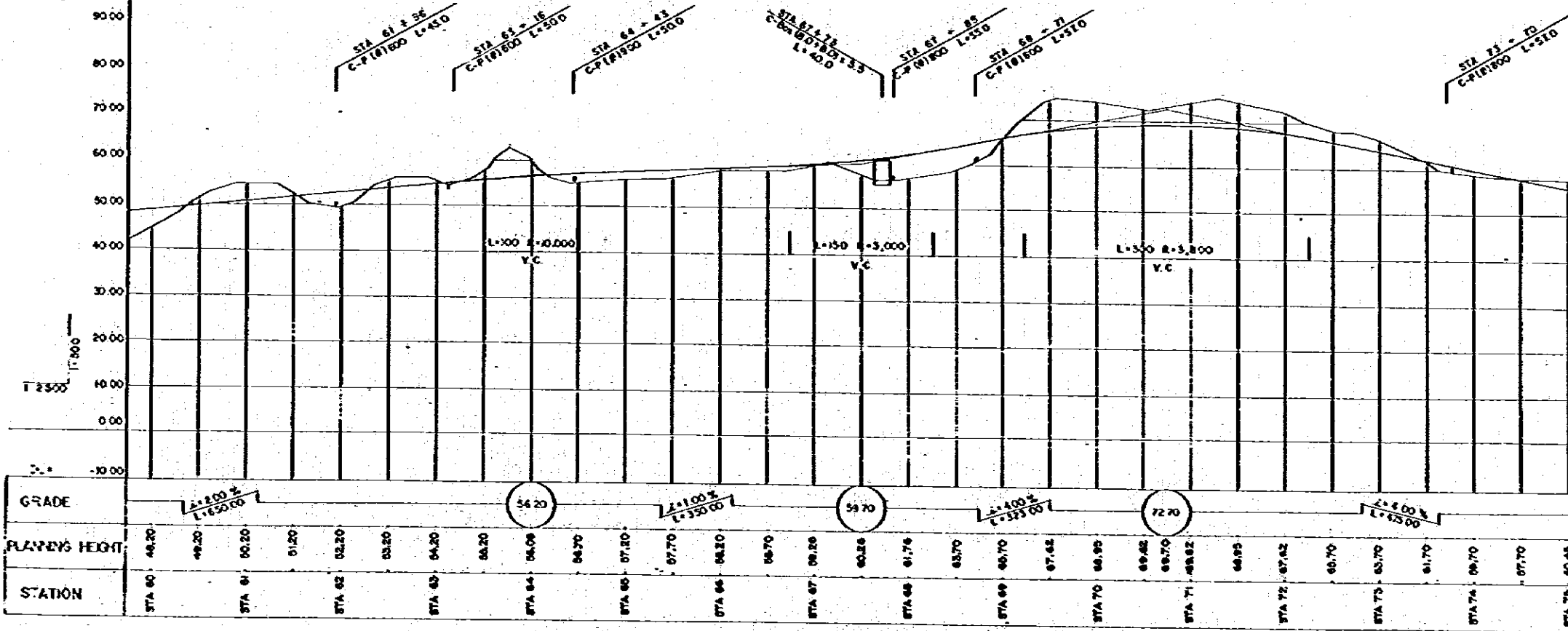
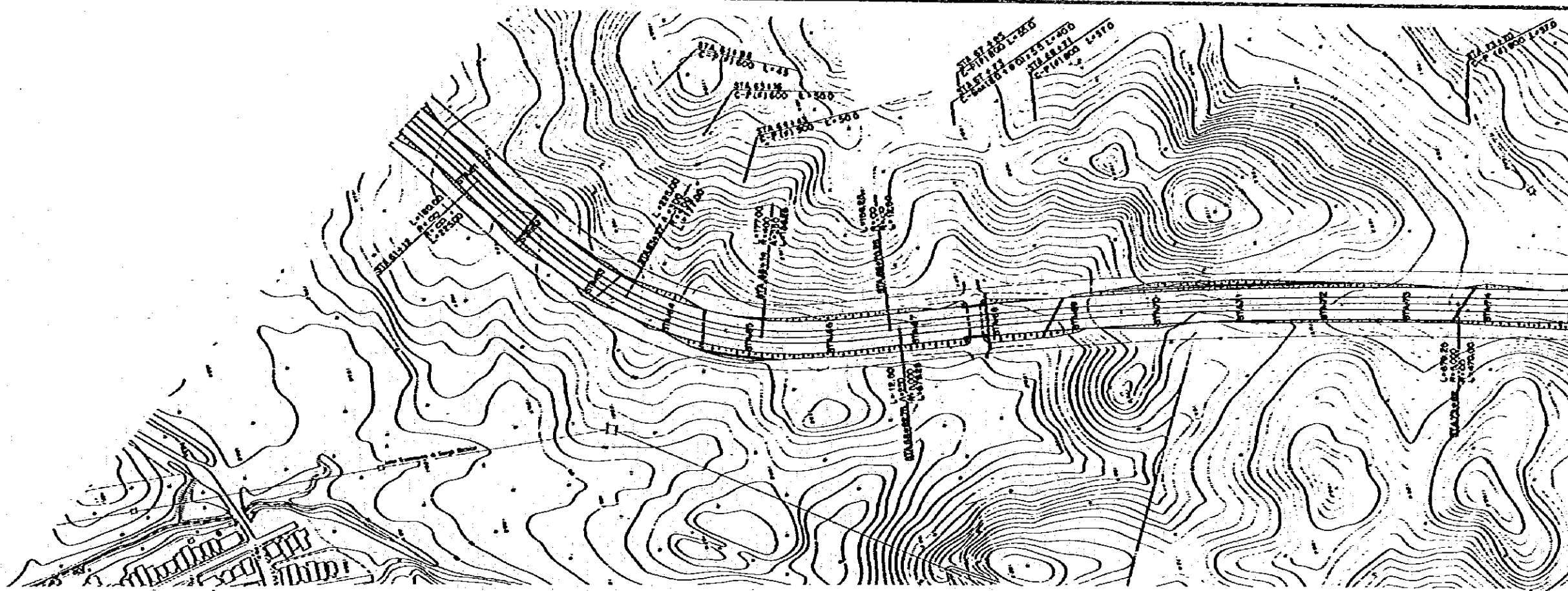


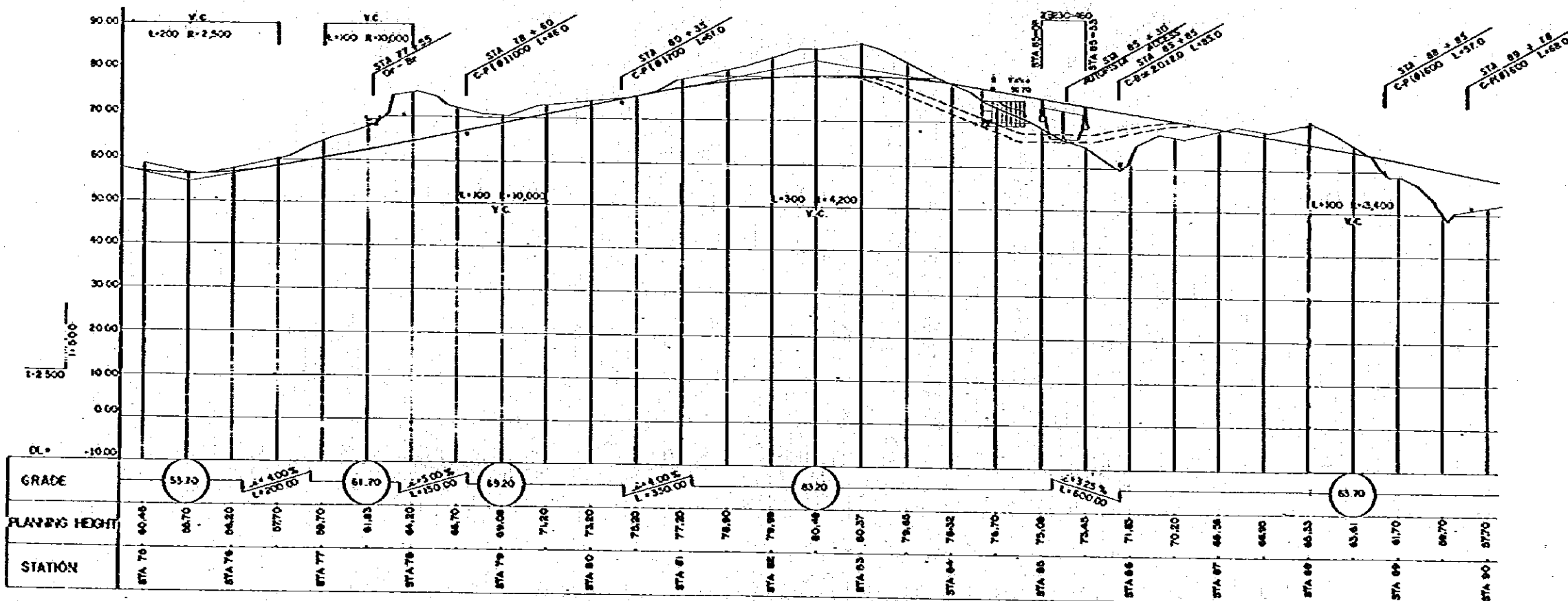
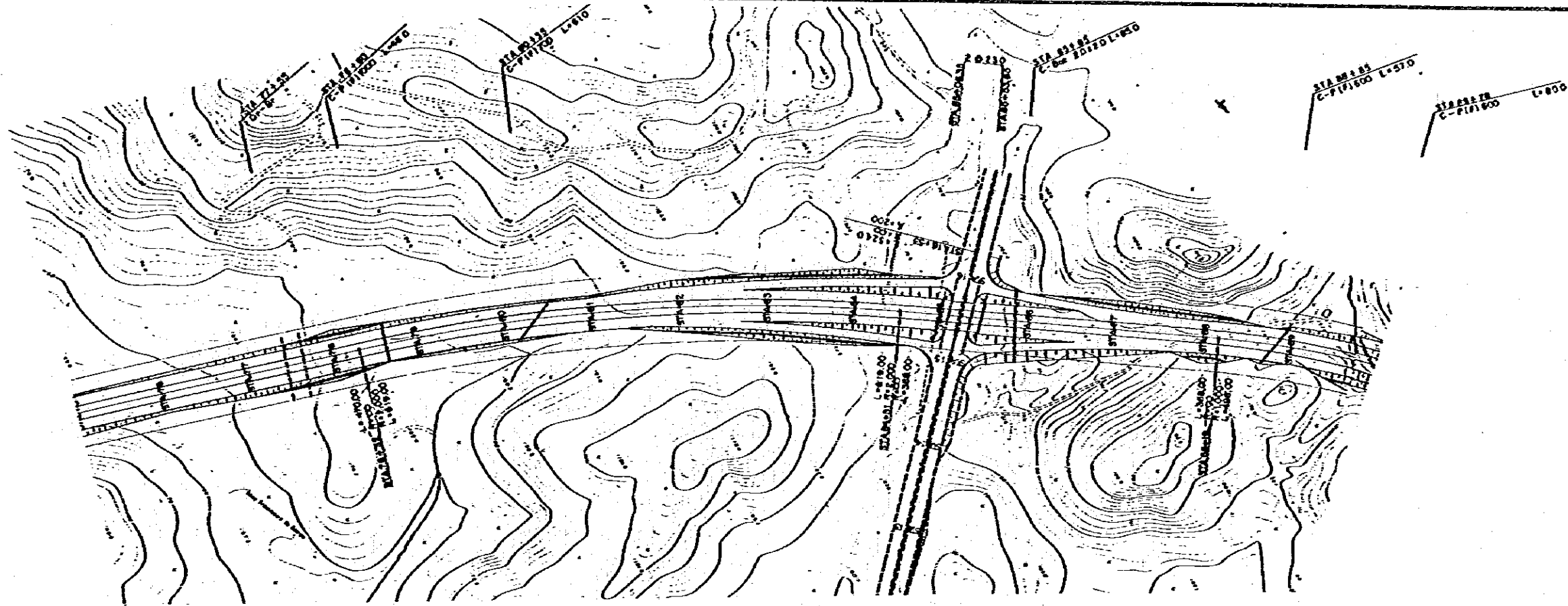


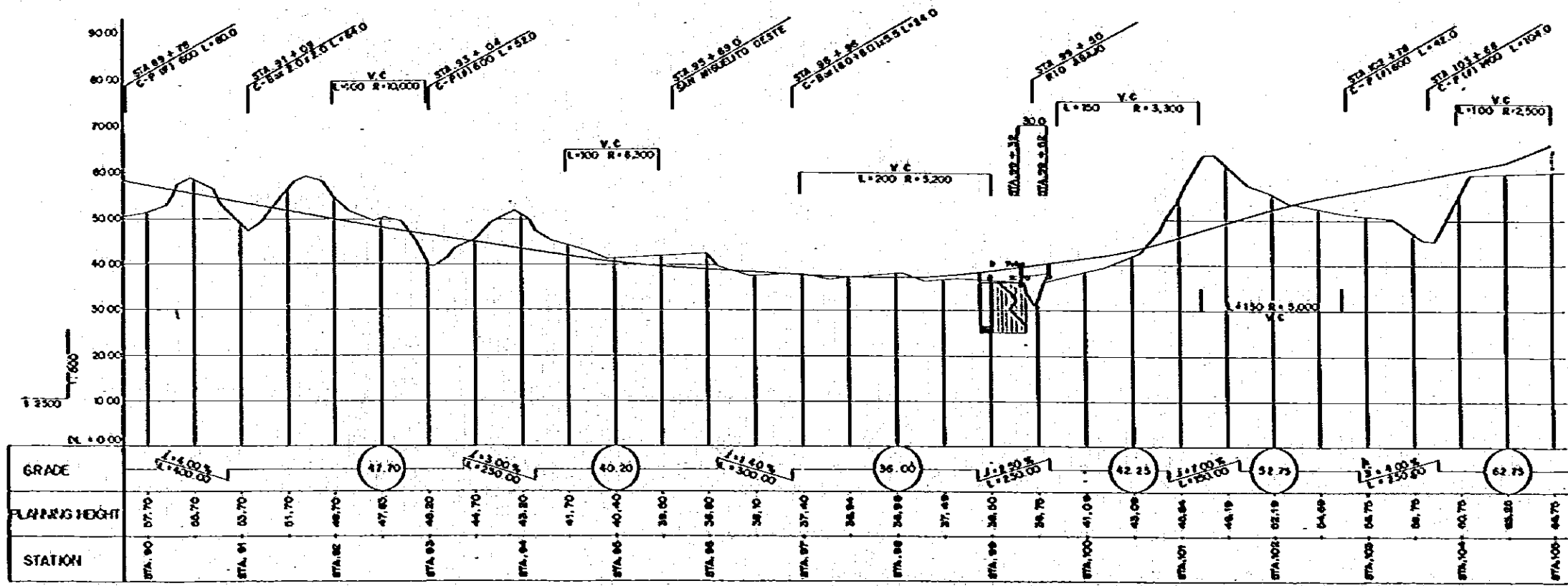
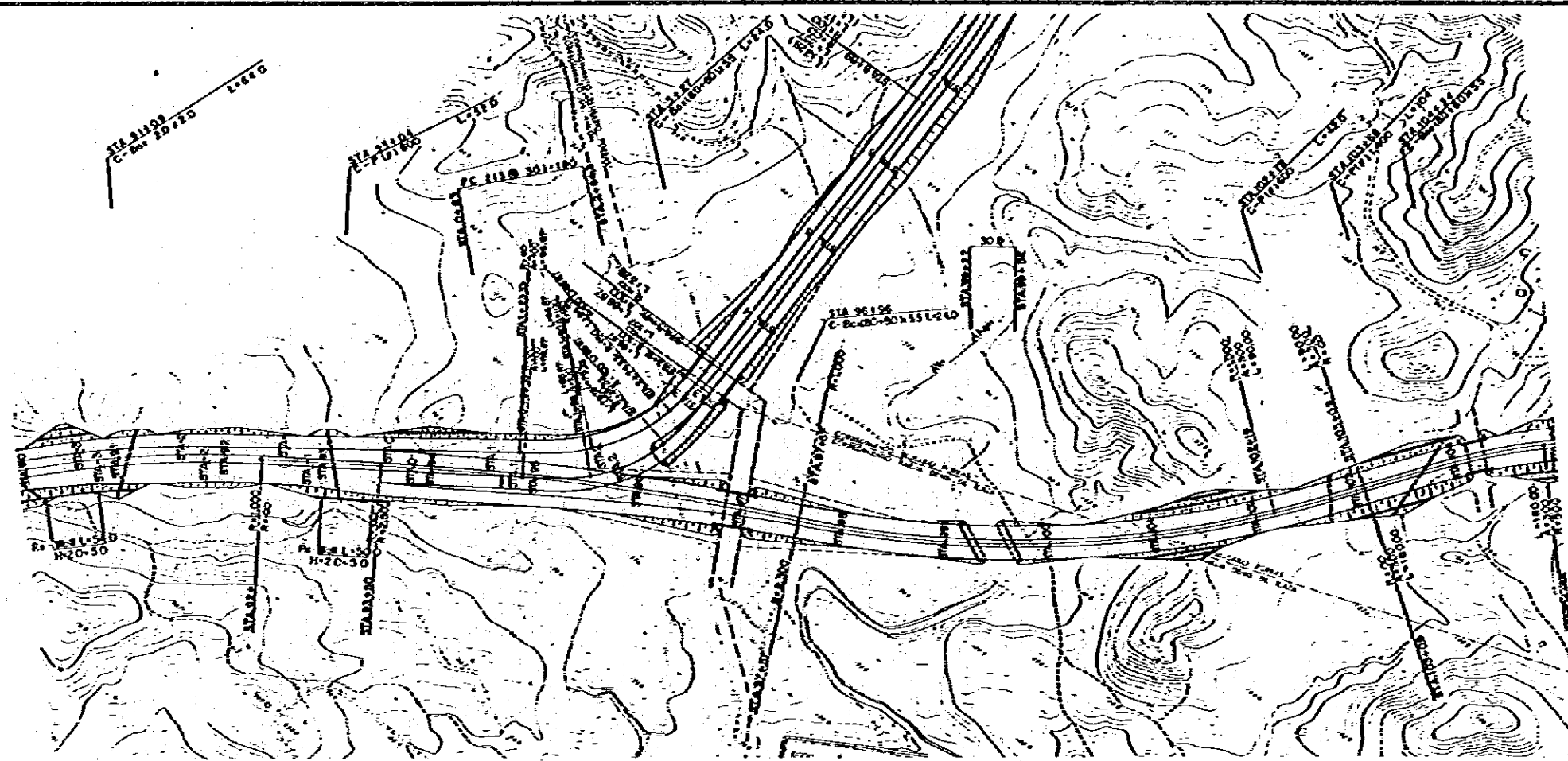


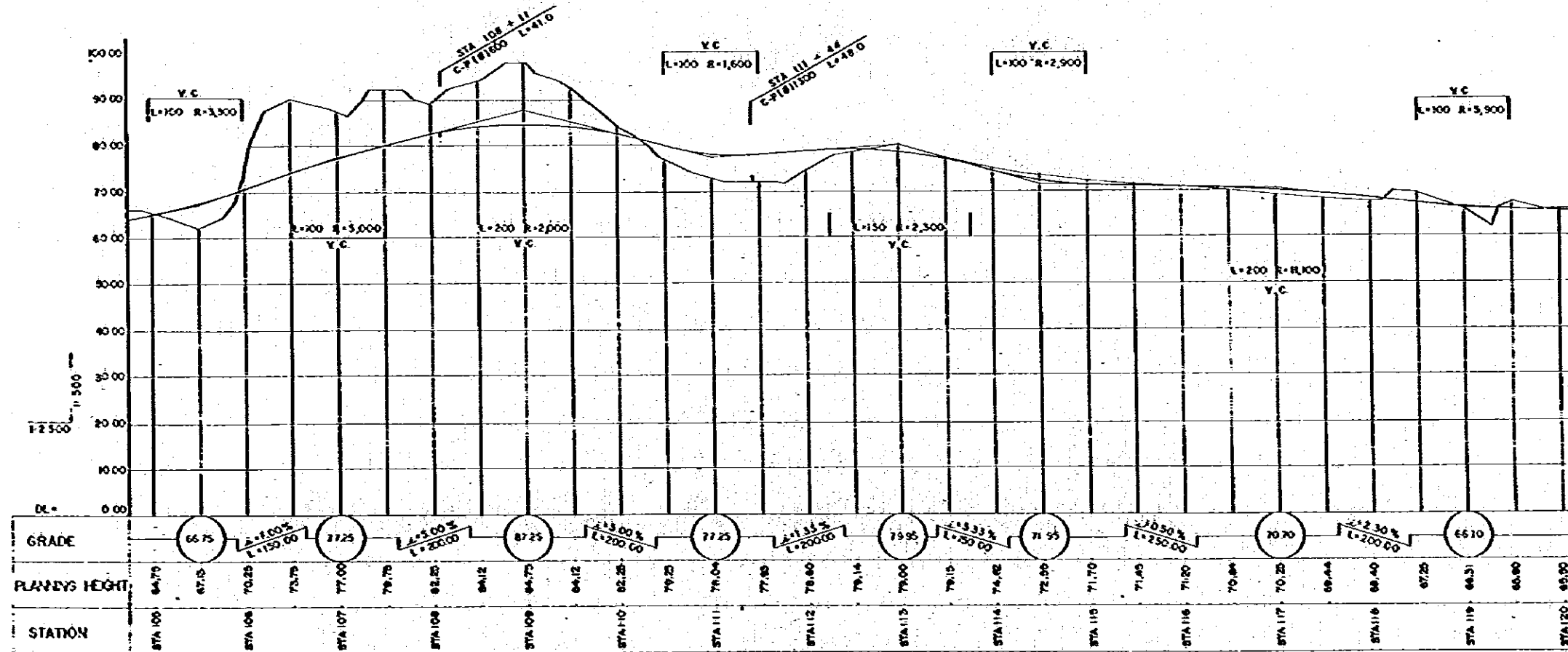
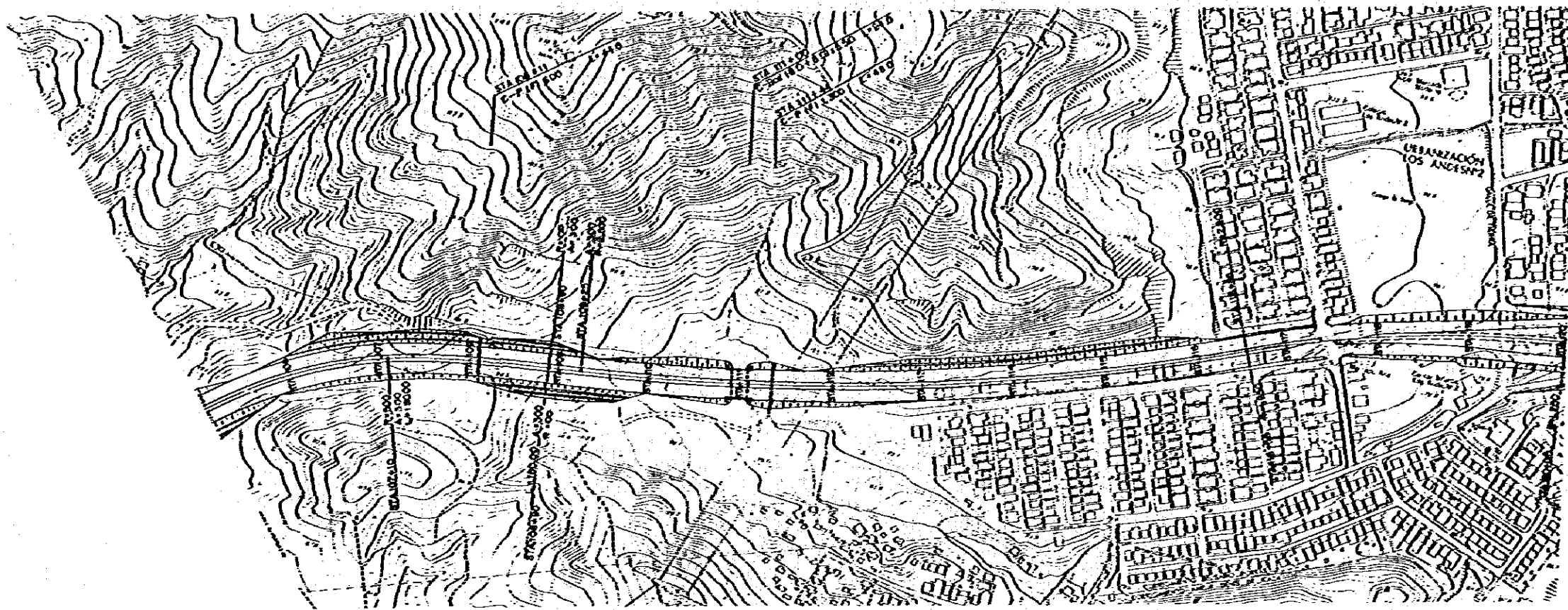


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54.20	54.00	STA 49
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54.20	54.00	STA 54
54.20	54.00	STA 55
54.20	54.00	STA 56
54.20	54.00	STA 57
54.20	54.00	STA 58
54.20	54.00	STA 59
54.20	54.00	STA 60

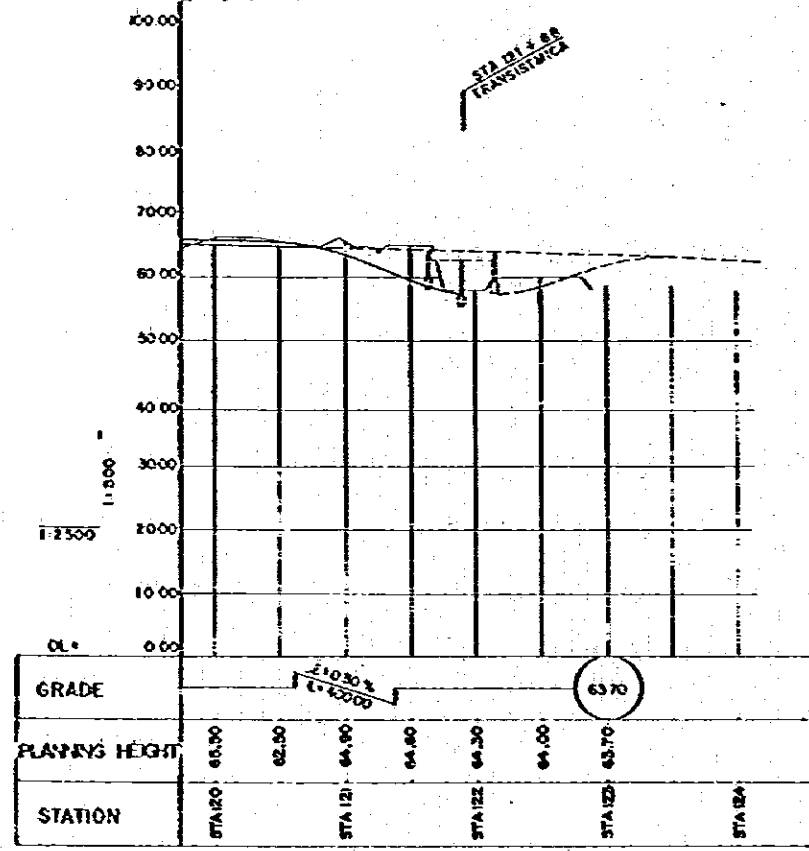
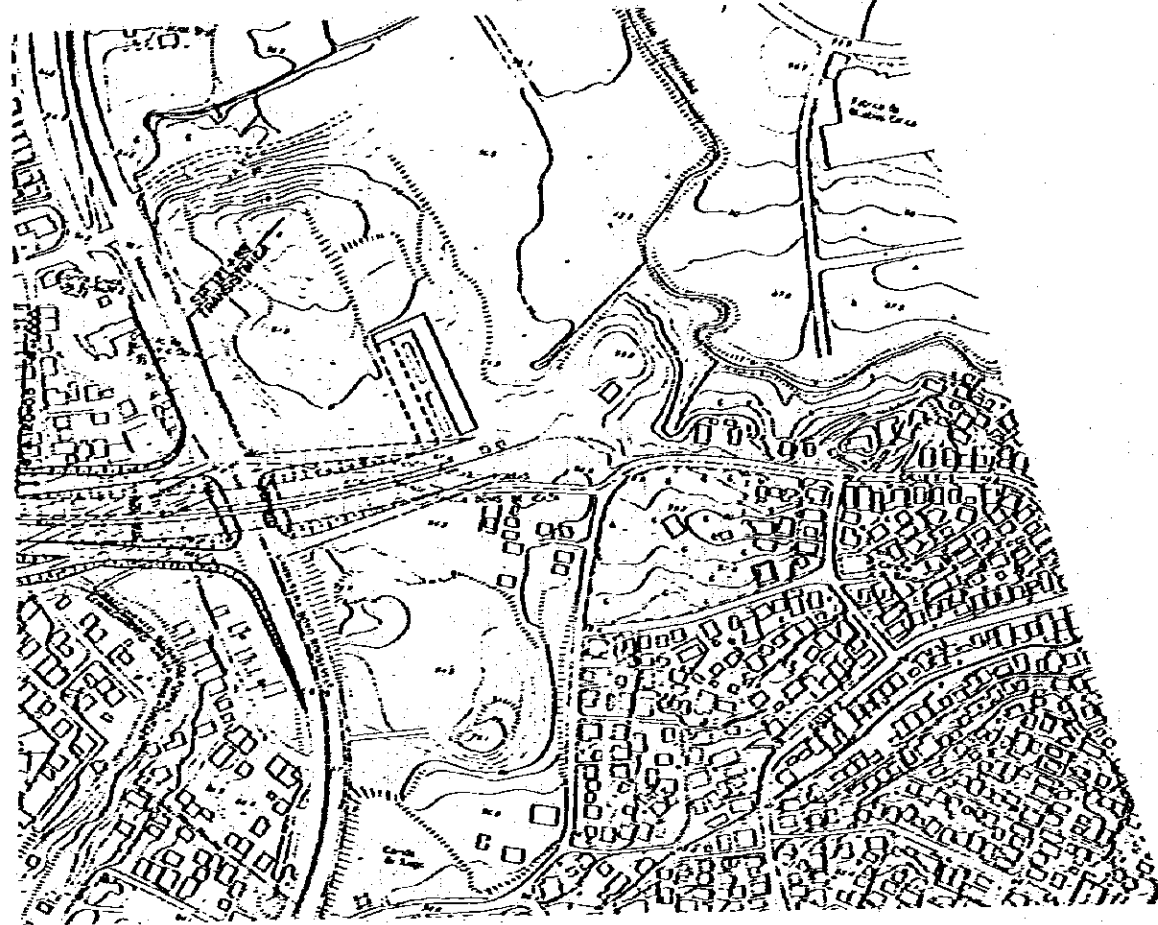


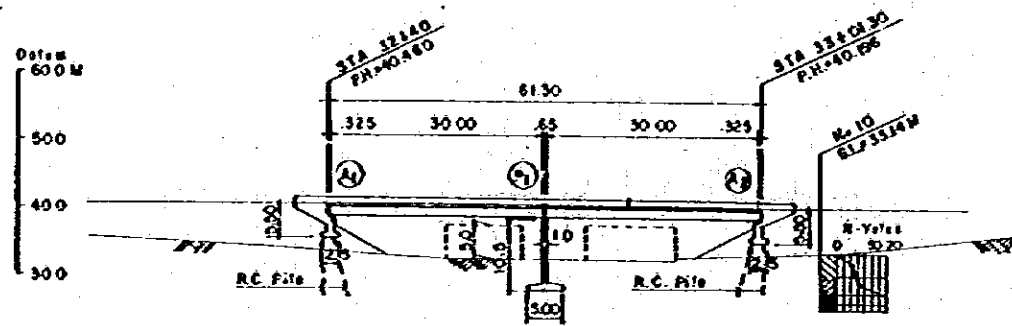




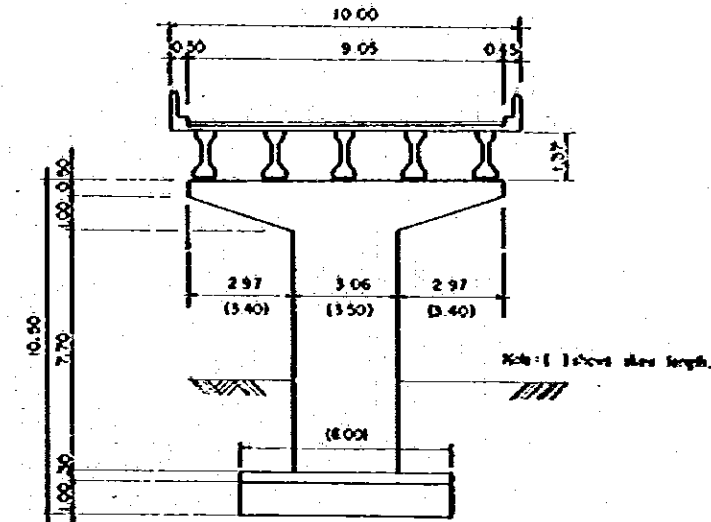


MOP MINISTRY OF PUBLIC WORKS THE REPUBLIC OF PANAMA REPUBLICA DE PANAMA MINISTERIO DE OBRAS PUBLICAS	ESTAMPA II	JICA JAPAN INTERNATIONAL COOPERATION AGENCY AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON	THE FEASIBILITY STUDY ON URBAN TRANSPORT PROJECT IN PANAMA METROPOLITAN AREA ESTUDIO DE FACTIBILIDAD DE PROYECTOS DE TRANSPORTE URBANO PARA EL AREA METROPOLITANA		
			TITLE TITULO	CARRER NORT PLAN & PROFILE (8) PLANO-PERFIL DEL CARRER NORT (8)	SCALE ESCALA





ELEVATION SCALE 1:500

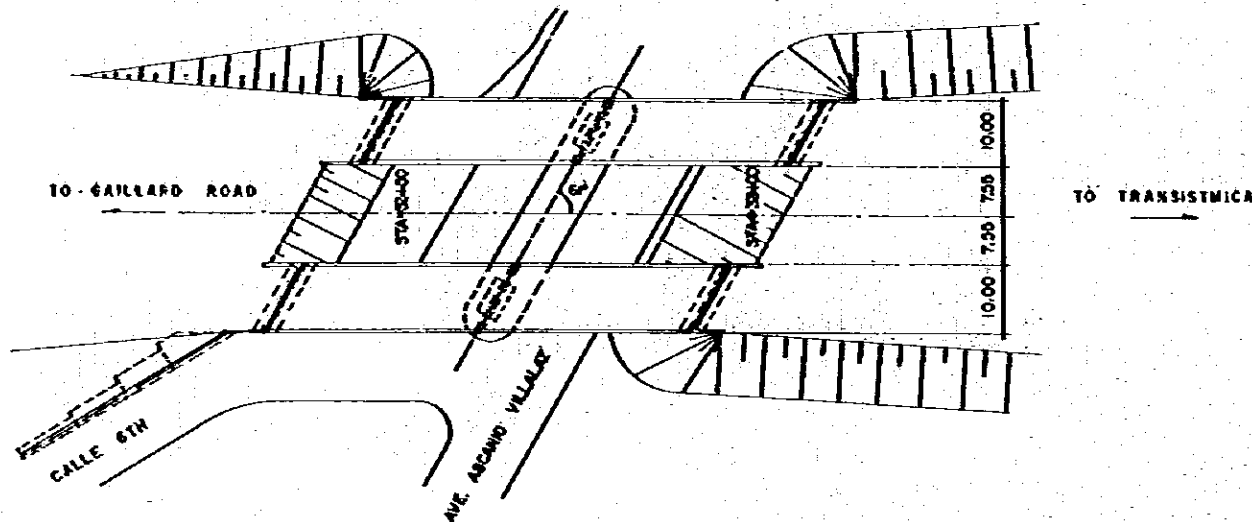


SECTION SCALE 1:100

GRADE	40.02					40.00
PLANNING HEIGHT	40.48	40.48	40.40	40.32	40.20	40.02
GROUND HEIGHT	45.50	52.40	52.80	52.80	52.80	57.50
STATION	31+00	32+40	32+00	32+700	33+00	33+00

DESIGN DATA

TYPE	P.C. SIMPLE COMPOSITE GIRDER
TOTAL BRIDGE LENGTH	61 ^m 30
GIRDER LENGTH	61 ^m 25
SPAN	30 ^m 00, 30 ^m 00
WIDTH	9 ^m 05
LIVE LOAD	HS 20-44 (M 18)
IMPACT COEFFICIENT	1 + 15.24 / (L + 30)
SEISMIC INTENSITY	C = 0.06
STANDARD	AASHTO



PLAN SCALE 1:500

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MINISTERIO DE OBRAS PUBLICAS

ESTAMPA II

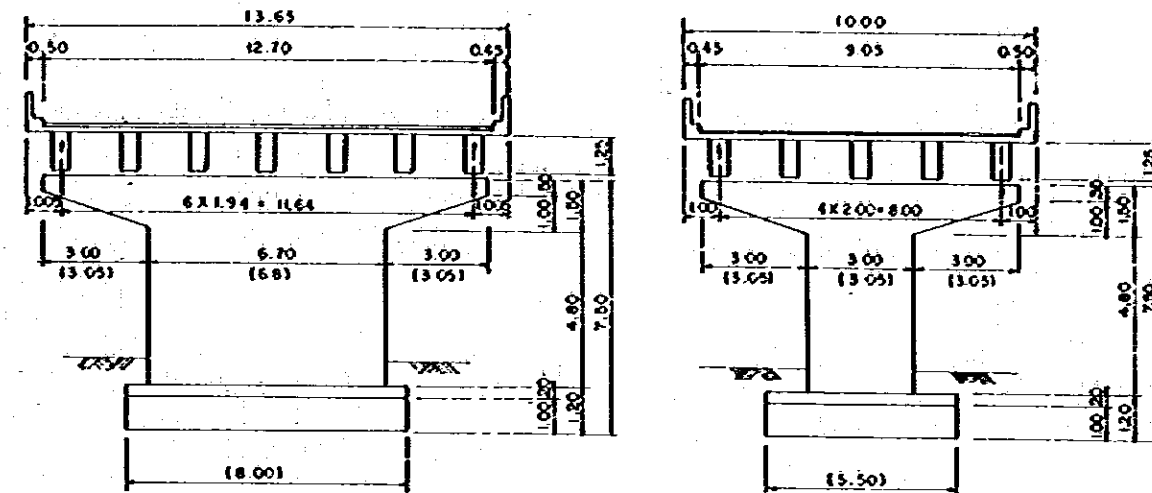
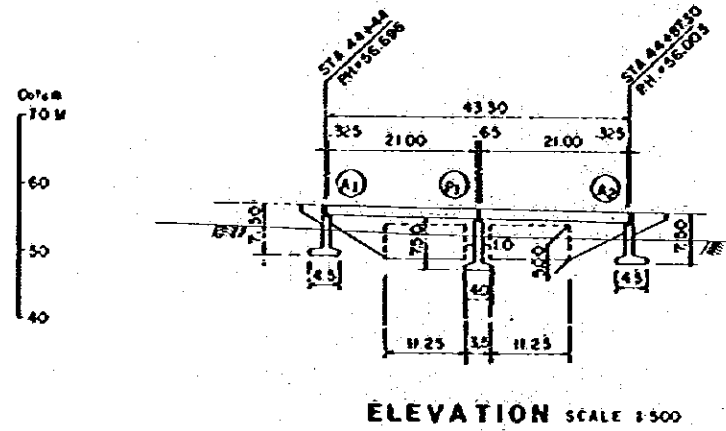
JICA
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COOPERATION AGENCY
AGENCIA DE COOPERACION
INTERNACIONAL DEL JAPON

THE FEASIBILITY STUDY ON URBAN TRANSPORT PROJECT IN PANAMA METROPOLITAN AREA
ESTUDIO DE FACTIBILIDAD DE PROYECTOS DE TRANSPORTE URBANO PARA EL AREA METROPOLITANA

TITLE
TITULO
AVE. ASCANIO VILLALAZ BRIDGE
PUENTE SOBRE LA AVE. ASCANIO VILLALAZ

SCALE
ESCALE
DATE
FECHA

PAGE NO.
PAGINA NO.
40
Dwg. No.
MOJA NO.

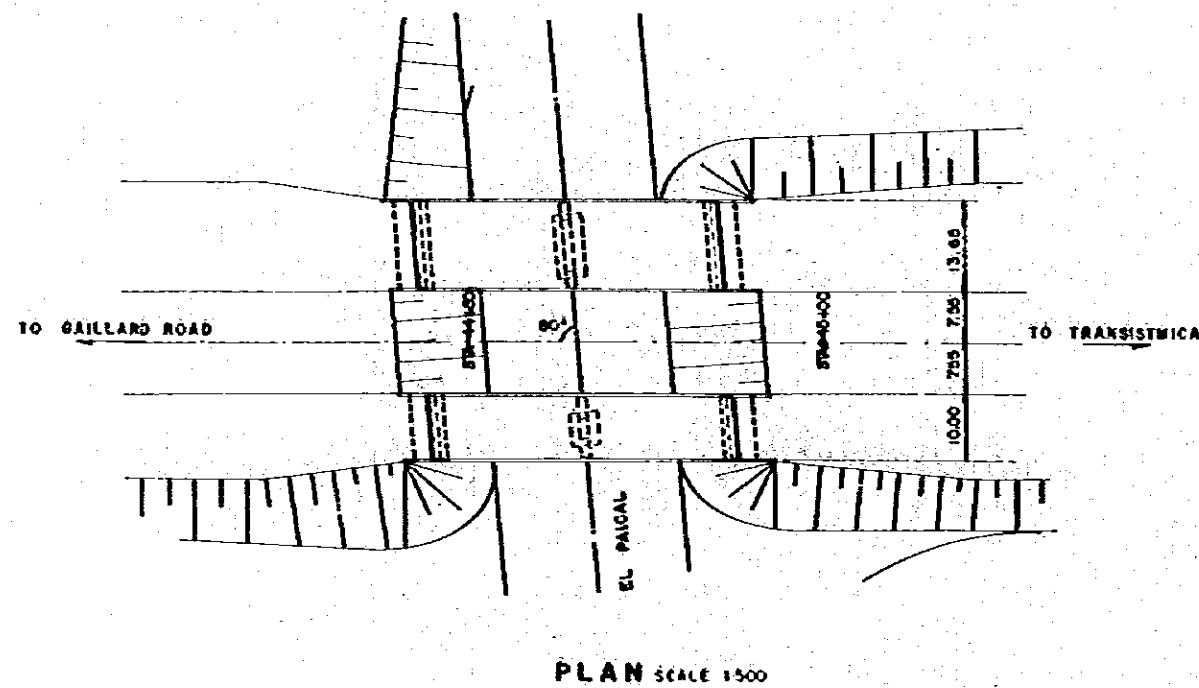


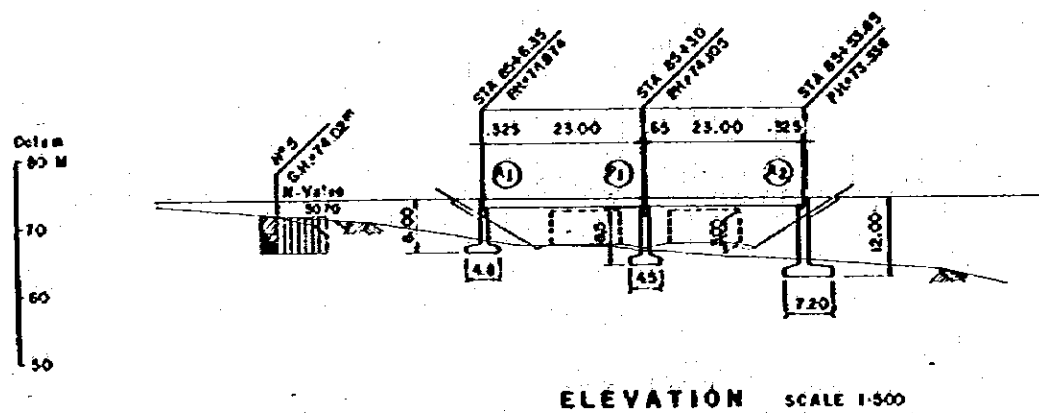
GRADE	54.20 - 11 - 54.20					
PLANNING HEIGHT	57.98	56.88	58.38	56.03	56.80	56.30
GROUND HEIGHT	57.20	53.90	53.00	52.30	52.00	49.80
STATION	43+00	44+44.14	44+57.50	44+80.00	45+00	46+00

SECTION SCALE 1:100 Note (1) shows elev. height.

DESIGN DATA

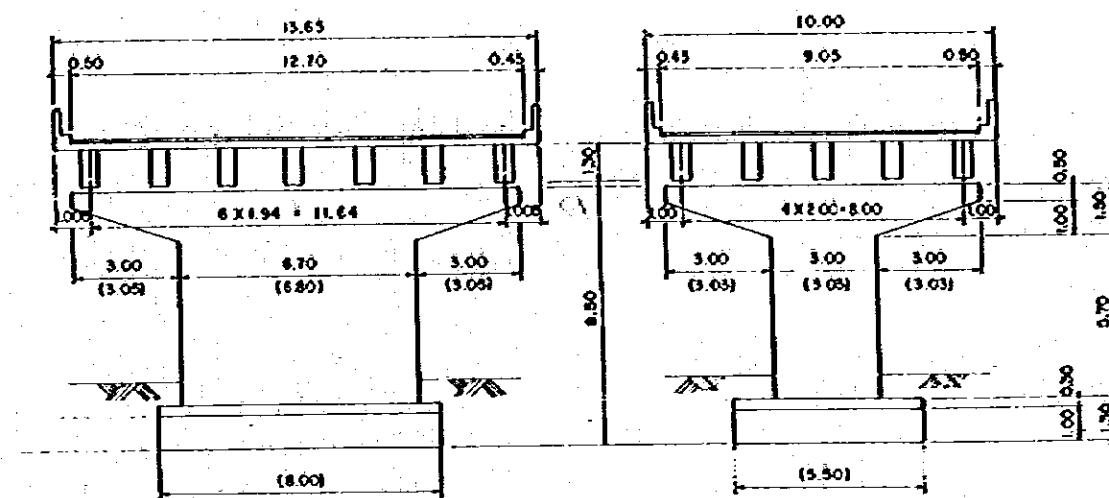
TYPE	RC SIMPLE T-BEAM GIRDER
TOTAL BRIDGE LENGTH	43 ^m 30
GIRDER LENGTH	43 ^m 25
SPAN	21 ^m 00, 21 ^m 00
WIDTH	9 ^m 05, 12 ^m 70
LIVE LOAD	HS20-44(M18)
IMPACT COEFFICIENT	i = 1524 / (R + 38)
SEISMIC INTENSITY	C = 0.06
STANDARD	AASHTO





ELEVATION SCALE 1:500

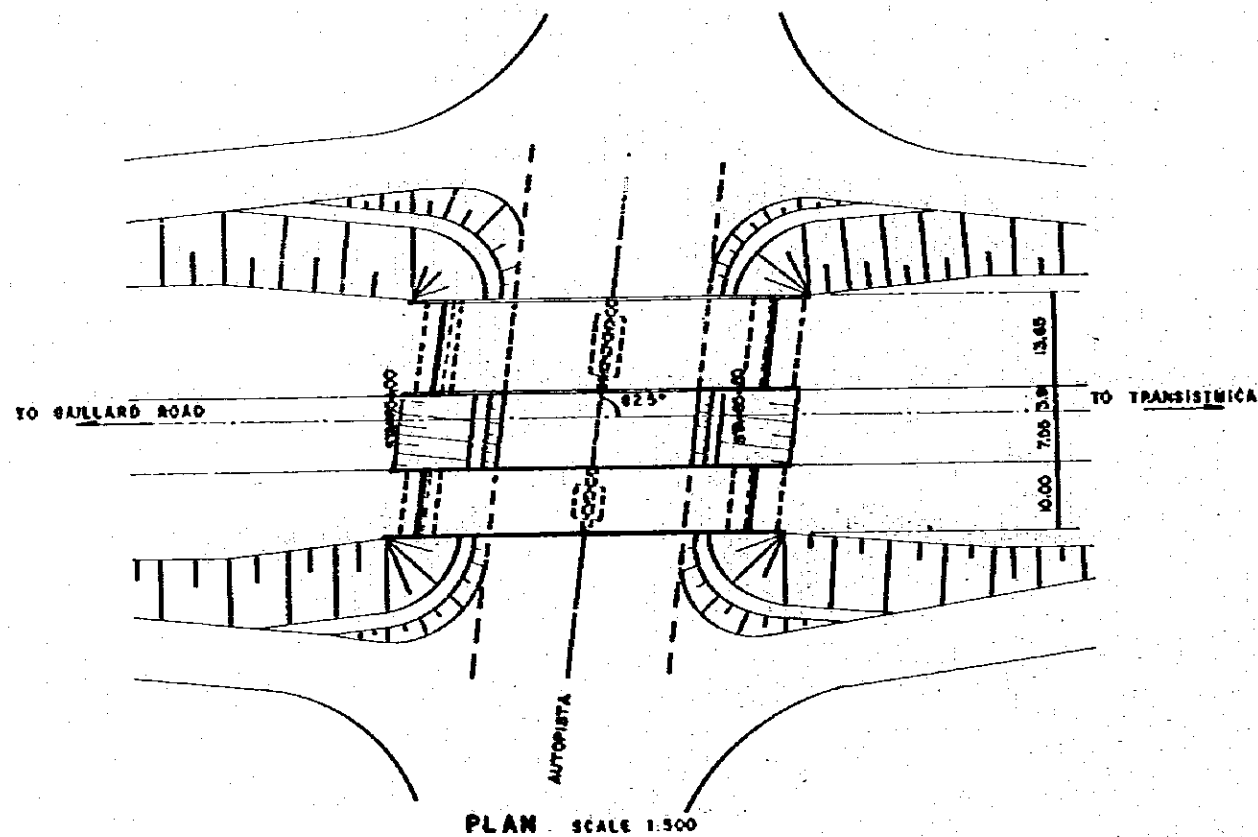
GRADE	83.20	1.323% 1.6000%				83.70
PLANNING HEIGHT	80.48	75.08	74.87	74.00	73.45	83.41
GROUND HEIGHT	86.50	89.00	85.00	86.00	84.80	85.90
STATION	82+90	89+00	89+60	88+50	85+00	88+50



SECTION

SCALE 1:100

Note: 3 shows clear height



PLAN SCALE 1:500

DESIGN DATA

TYPE	RC SIMPLE T-BEAM GIRDER
TOTAL BRIDGE LENGTH	47 ^m 30
GIRDER LENGTH	47 ^m 25
SPAN	23 ^m 00, 23 ^m 00
WIDTH	9 ^m 05, 12 ^m 70
LIVE LOAD	HS 20-44 (M 18)
IMPACT COEFFICIENT	I = 15.24 / (L + 38)
SEISMIC INTENSITY	C = 0.06
STANDARD	AASHTO

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ESTAMPA II

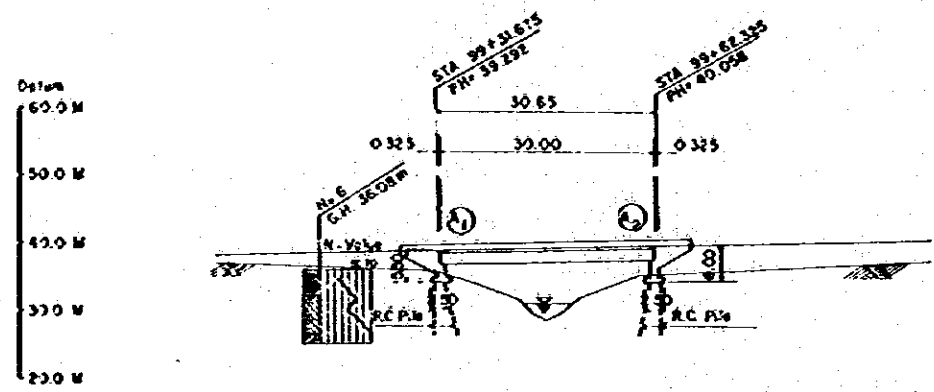
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THE FEASIBILITY STUDY ON URBAN TRANSPORT PROJECT IN PANAMA METROPOLITAN AREA
ESTUDIO DE FACTIBILIDAD DE PROYECTOS DE TRANSPORTE URBANO PARA EL AREA METROPOLITANA

TITLE AUTOPISTA INTERSECCION BRIDGE
TITULO PUENTE EN LA INTERSECCION CON LA AUTOPISTA

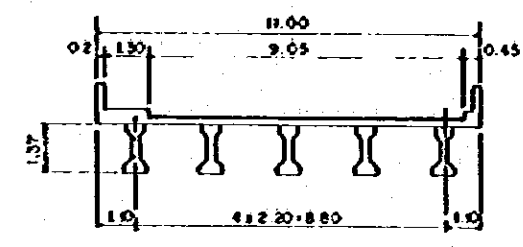
SCALE
ESCALE
DATE
FECHA

PAGE NO. 42
PAGE NO.
NOJA NO.

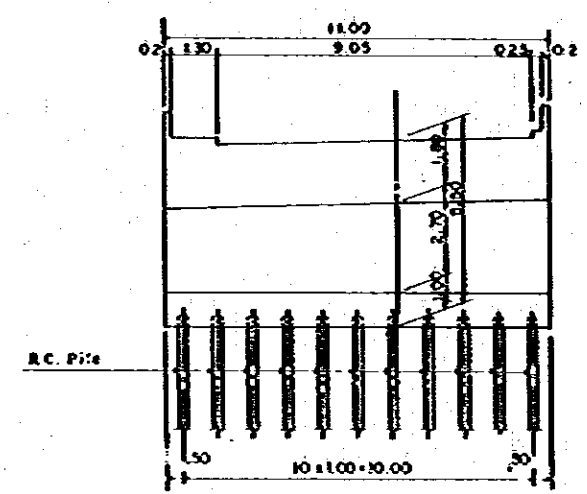


ELEVATION SCALE 1:500

GRADE	36.55	1:2.50% L = 250.00					42.25
PLANNING HEIGHT	36.98	38.50	39.792	38.75	40.708	43.09	
GROUND HEIGHT	37.00	38.50	38.00	32.00	36.50	41.75	
STATION	98+00	99+00	100+00	101+00	102+00	103+00	



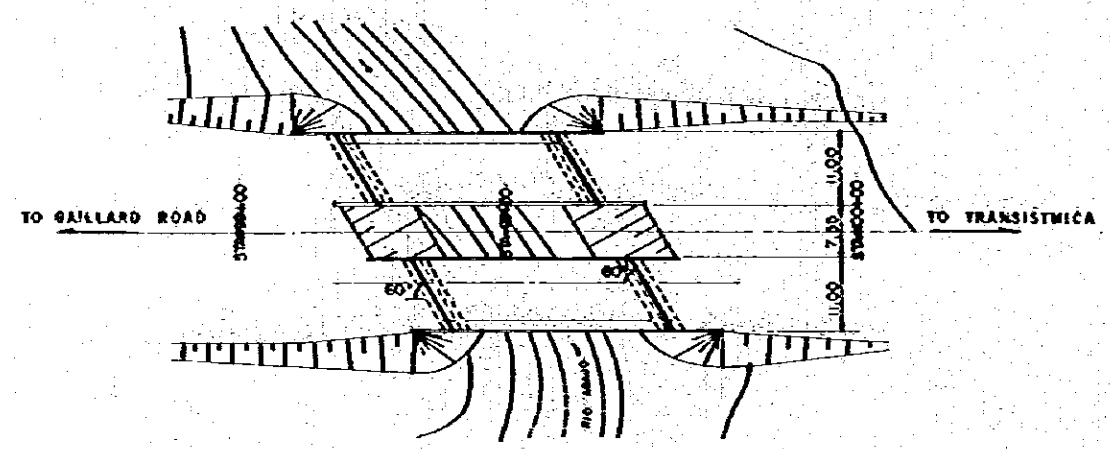
SECTION SCALE 1:300



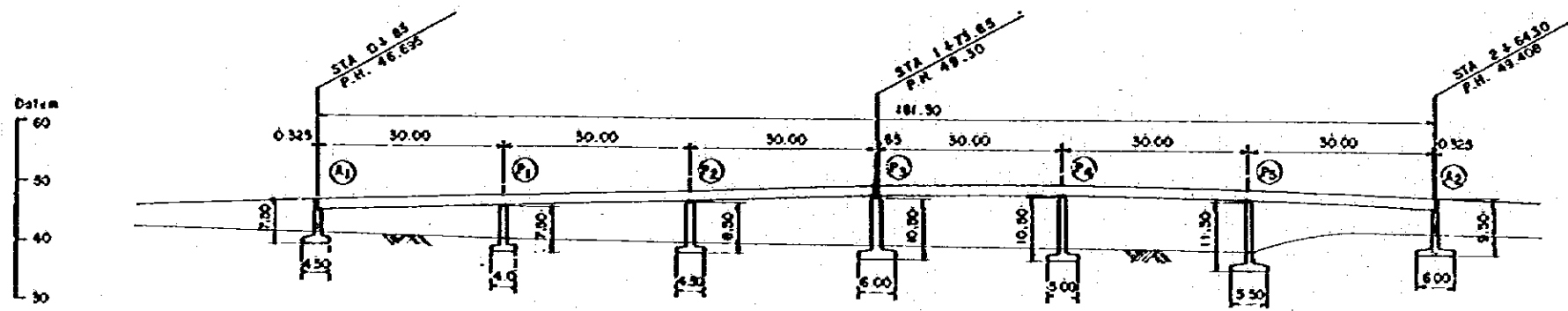
SECTION SCALE 1:500

DESIGN DATA

TYPE	P.C. SIMPLE COMPOSITE GIRDER
TOTAL BRIDGE LENGTH	30 ^m 650
GIRDER LENGTH	30 ^m 600
SPAN	30 ^m 00
WIDTH	9 ^m 05
LIVE LOAD	HS20-44 (M18)
IMPACT COEFFICIENT	1.1524/(L+38)
SEISMIC INTENSITY STANDARD	C=0.06
	AASHTO

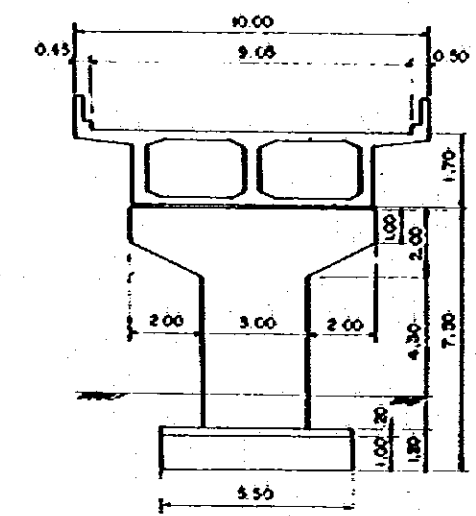


PLAN SCALE 1:500

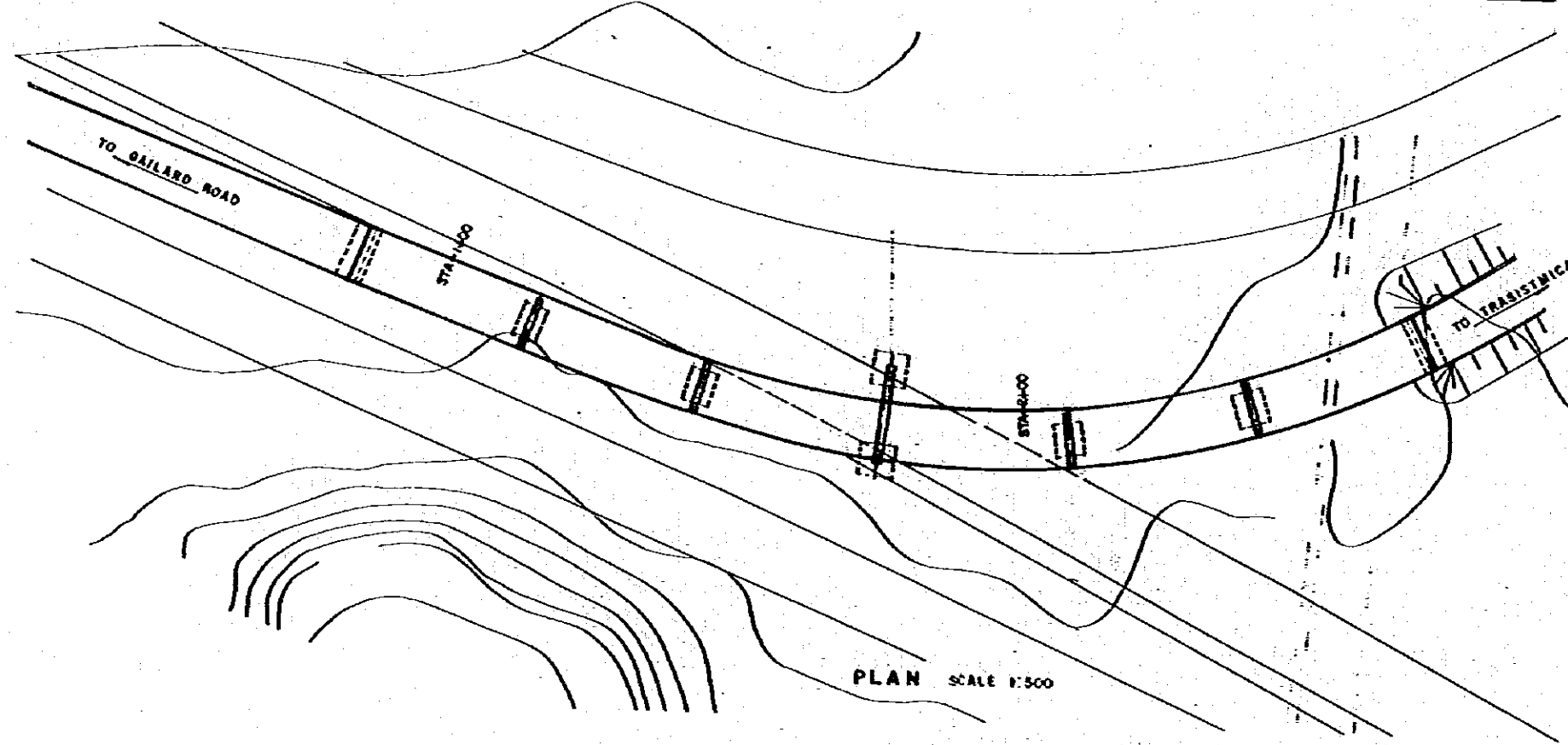


ELEVATION SCALE 1:500

GRADE	PLANNING HEIGHT	GROUND HEIGHT	STATION
	44.800-45.90	31.6	0+00.00
	44.800	41.2	0+00.00
	47.00	40.0	1+03.25
	48.500	39.8	1+43.25
	49.30	39.4	1+83.00
	50.21	38.1	2+00.00
	49.71	38.0	2+37.00
	49.75	38.6	2+76.75
	49.408	41.6	2+94.5
	45.90	45.90	3+30.00



SECTION SCALE 1:100

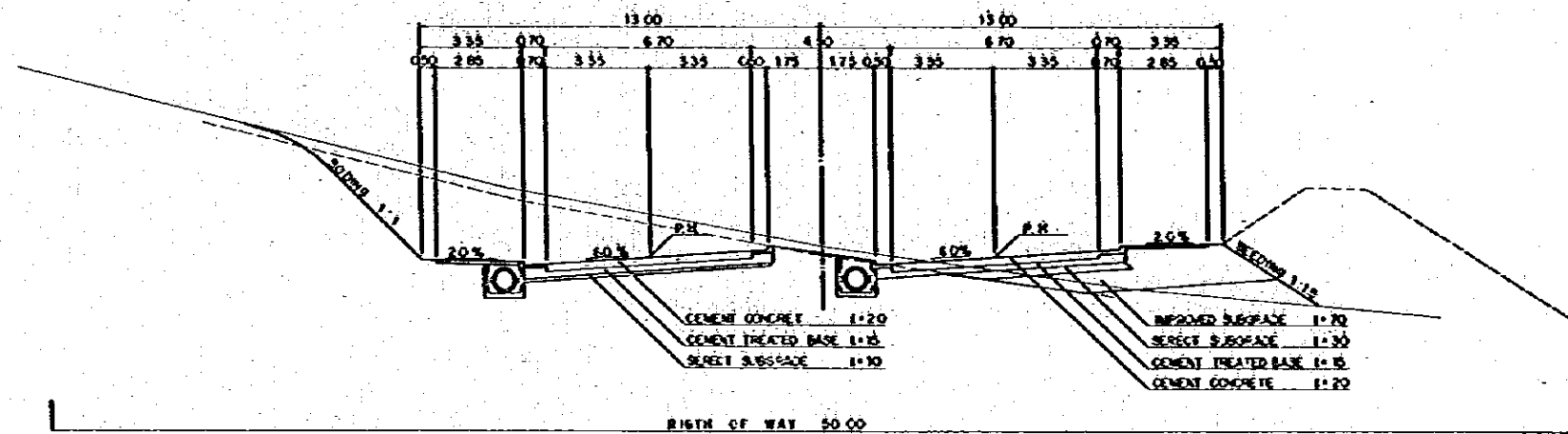


PLAN SCALE 1:500

DESIGN DATA

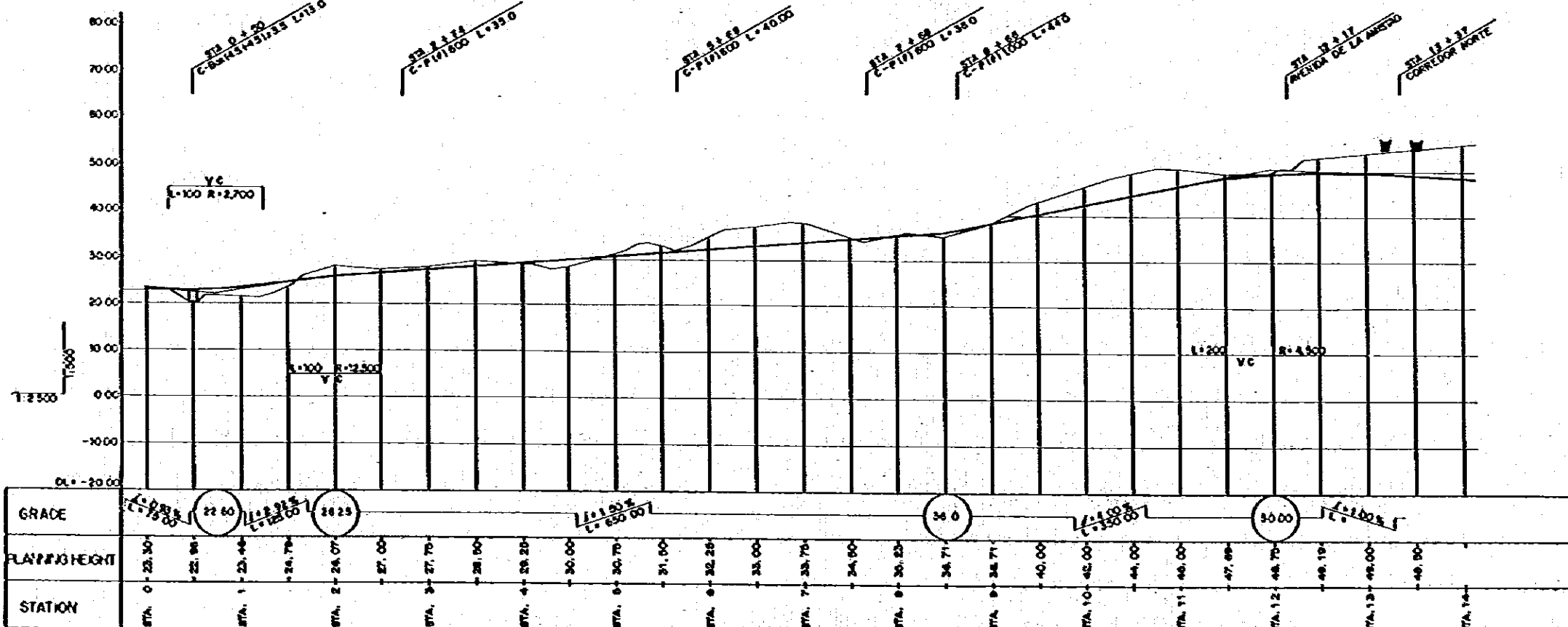
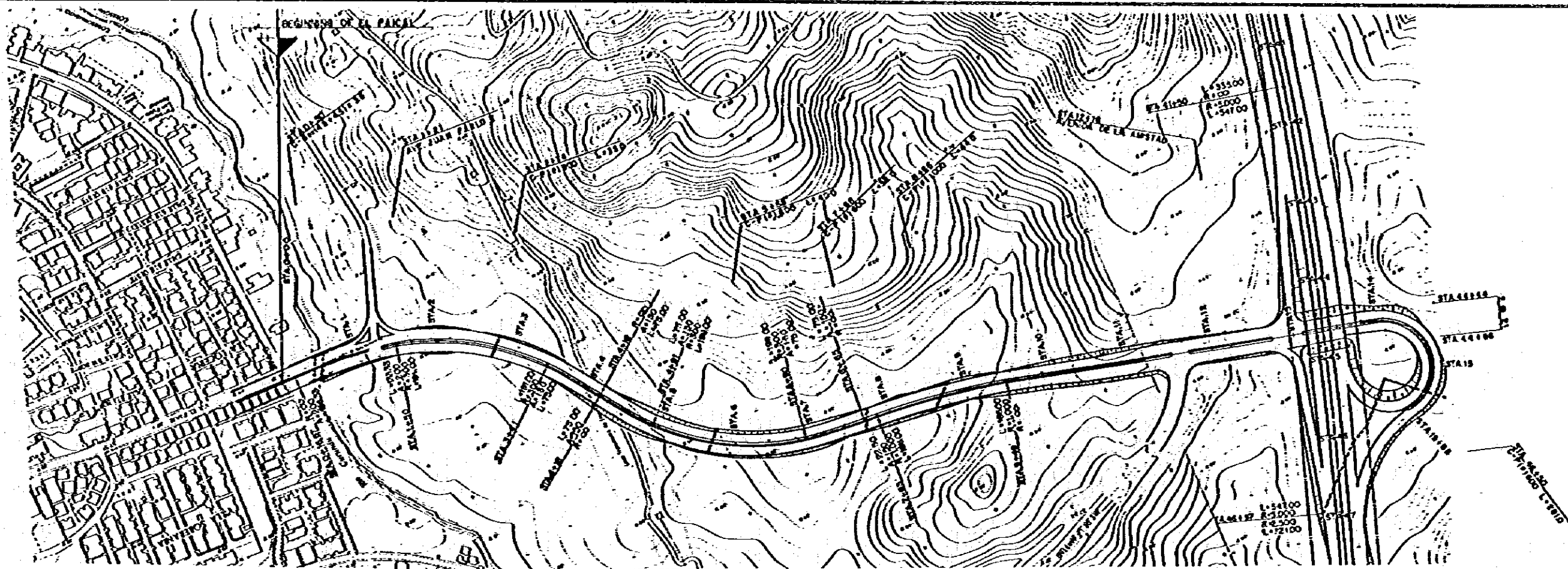
TYPE	P.C. 3 CONTINUOUS BOX GIRDER
TOTAL BRIDGE LENGTH	181.30
GIRDER LENGTH	181.25
SPAN	2 (3 x 30 ^m)
WIDTH	9.00
LIVE LOAD	HS 20-44 (M/R)
IMPACT COEFFICIENT	1 + 15.24 / (L + 30)
SEISMIC INTENSITY	C = 0.06
STANDARD	AASHTO

EL PAICAL EXTENTION
(STA. 5 + 00)



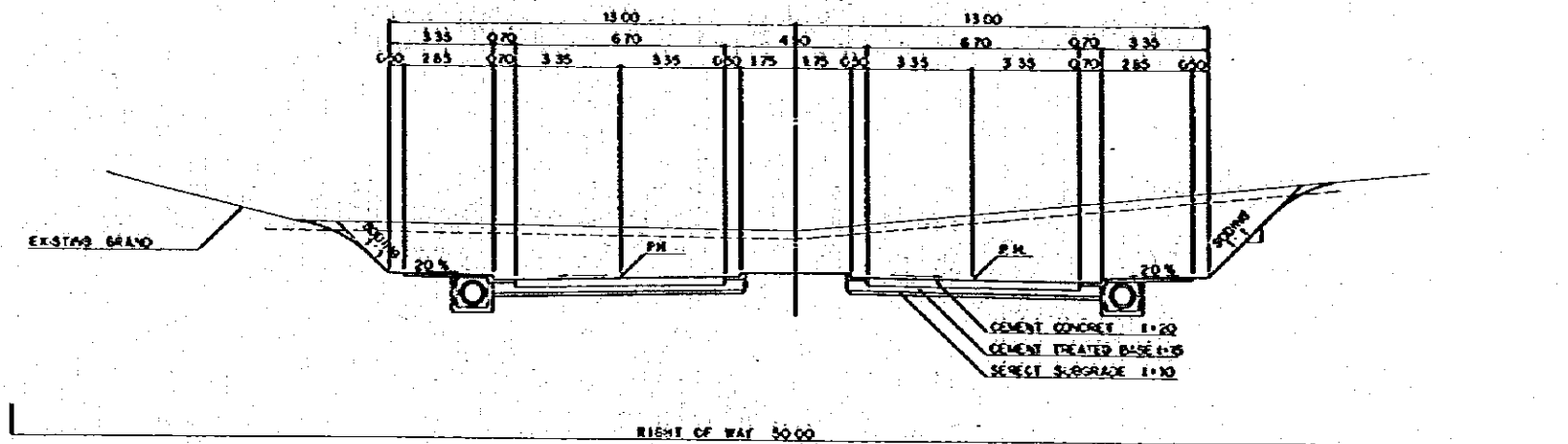
DL = 50.00m

<p>MOP MINISTRY OF PUBLIC WORKS THE REPUBLIC OF PANAMA REPUBLICA DE PANAMA MINISTERIO DE OBRAS PUBLICAS</p>	<p>ESTAMPA II</p>	<p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY AGENCIA DE COOPERACION INTERNACIONAL DEL JAPON</p>	<p>THE FEASIBILITY STUDY ON URBAN TRANSPORT PROJECT IN PANAMA METROPOLITAN AREA ESTUDIO DE FACTIBILIDAD DE PROYECTOS DE TRANSPORTE URBANO PARA EL AREA METROPOLITANA</p> <table border="1"> <tr> <td data-bbox="1350 1900 2107 1974"> <p>TITLE: TYPICAL CROSS SECTION OF VIA EL PAICAL EXTENSION TITULO SECCION TRANSVERSAL TIPICA EN LA EXTENSION DE LA VIA EL PAICAL</p> </td> <td data-bbox="2107 1900 2448 1974"> <p>SCALE ESCALE</p> <p>DATE FECHA</p> </td> <td data-bbox="2448 1900 2789 1974"> <p>PAGE NO. PAGINA NO. 45</p> <p>DWG NO. NO. D. NO.</p> </td> </tr> </table>	<p>TITLE: TYPICAL CROSS SECTION OF VIA EL PAICAL EXTENSION TITULO SECCION TRANSVERSAL TIPICA EN LA EXTENSION DE LA VIA EL PAICAL</p>	<p>SCALE ESCALE</p> <p>DATE FECHA</p>	<p>PAGE NO. PAGINA NO. 45</p> <p>DWG NO. NO. D. NO.</p>
<p>TITLE: TYPICAL CROSS SECTION OF VIA EL PAICAL EXTENSION TITULO SECCION TRANSVERSAL TIPICA EN LA EXTENSION DE LA VIA EL PAICAL</p>	<p>SCALE ESCALE</p> <p>DATE FECHA</p>	<p>PAGE NO. PAGINA NO. 45</p> <p>DWG NO. NO. D. NO.</p>				



TYPICAL CROSS SECTION SCALE 1:100

MARTIN SOSA EXTENSION
(STA. 5 + 00)



DL = 50.00m

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ESTAMPA II

JICA

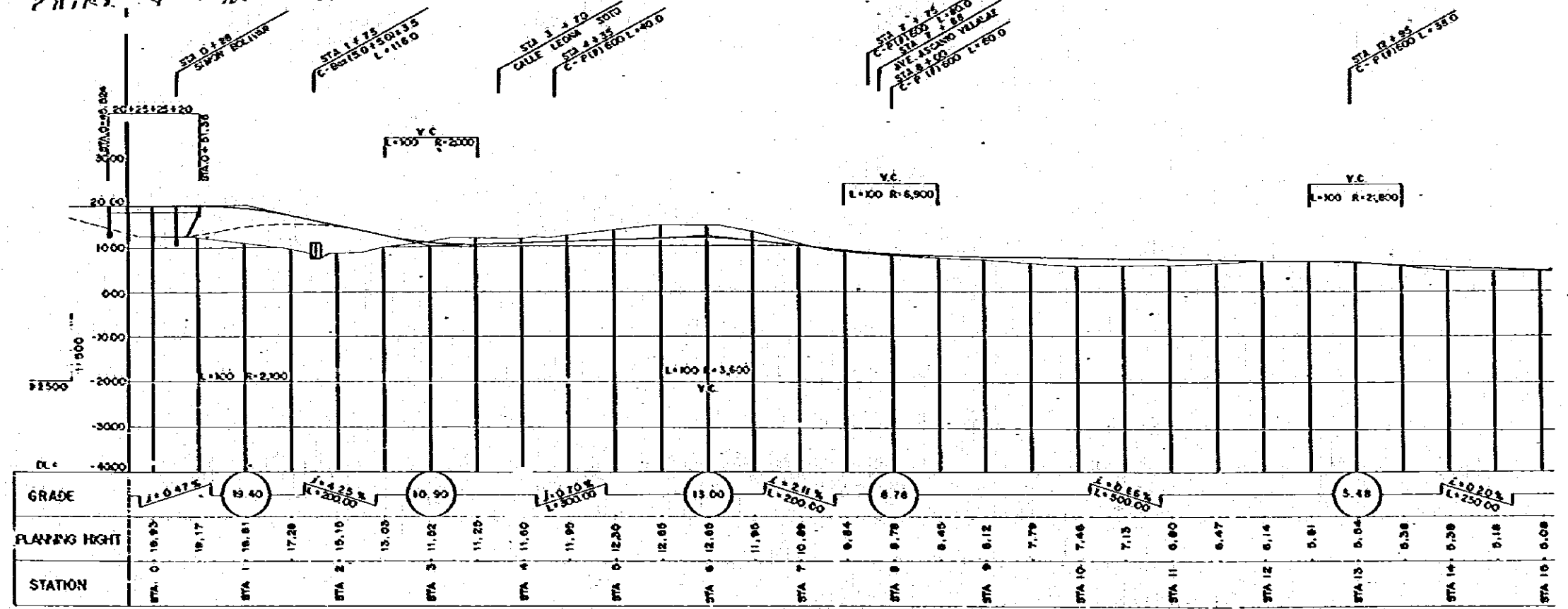
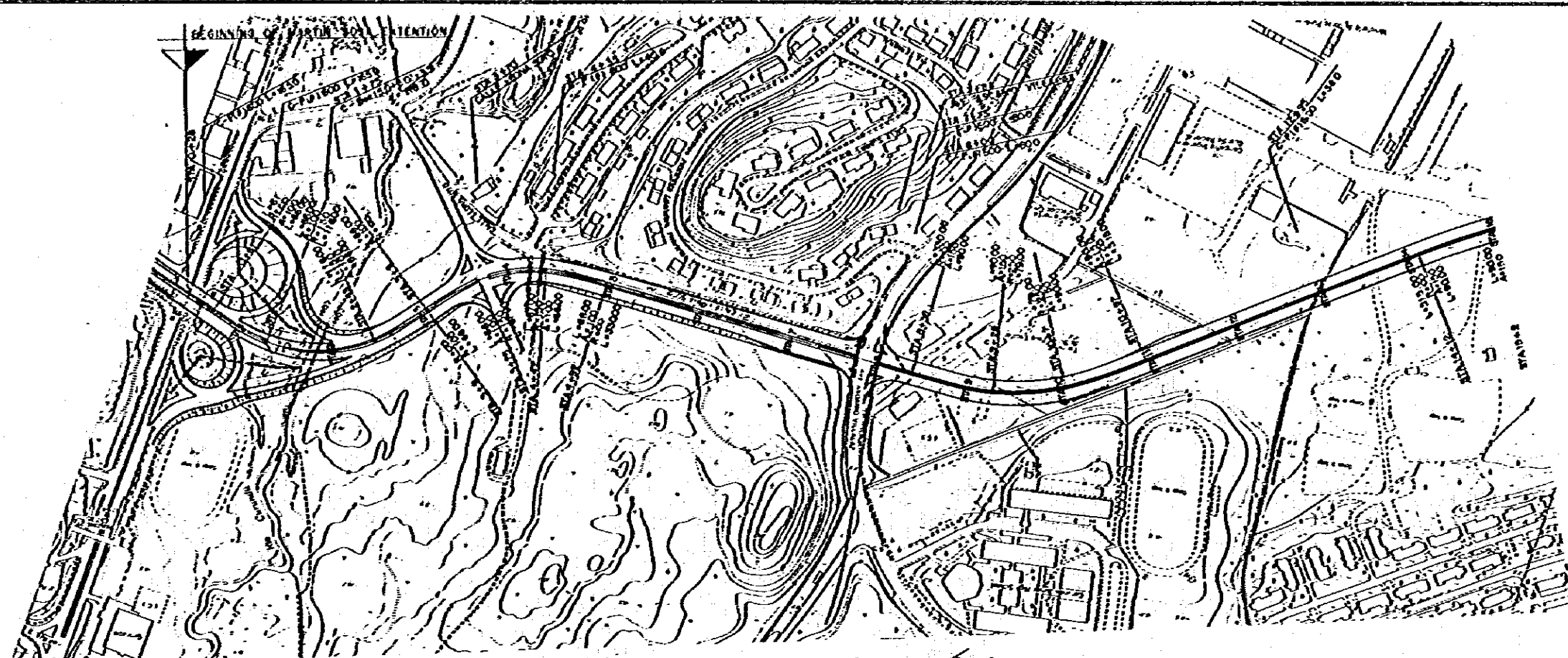
JAPAN INTERNATIONAL
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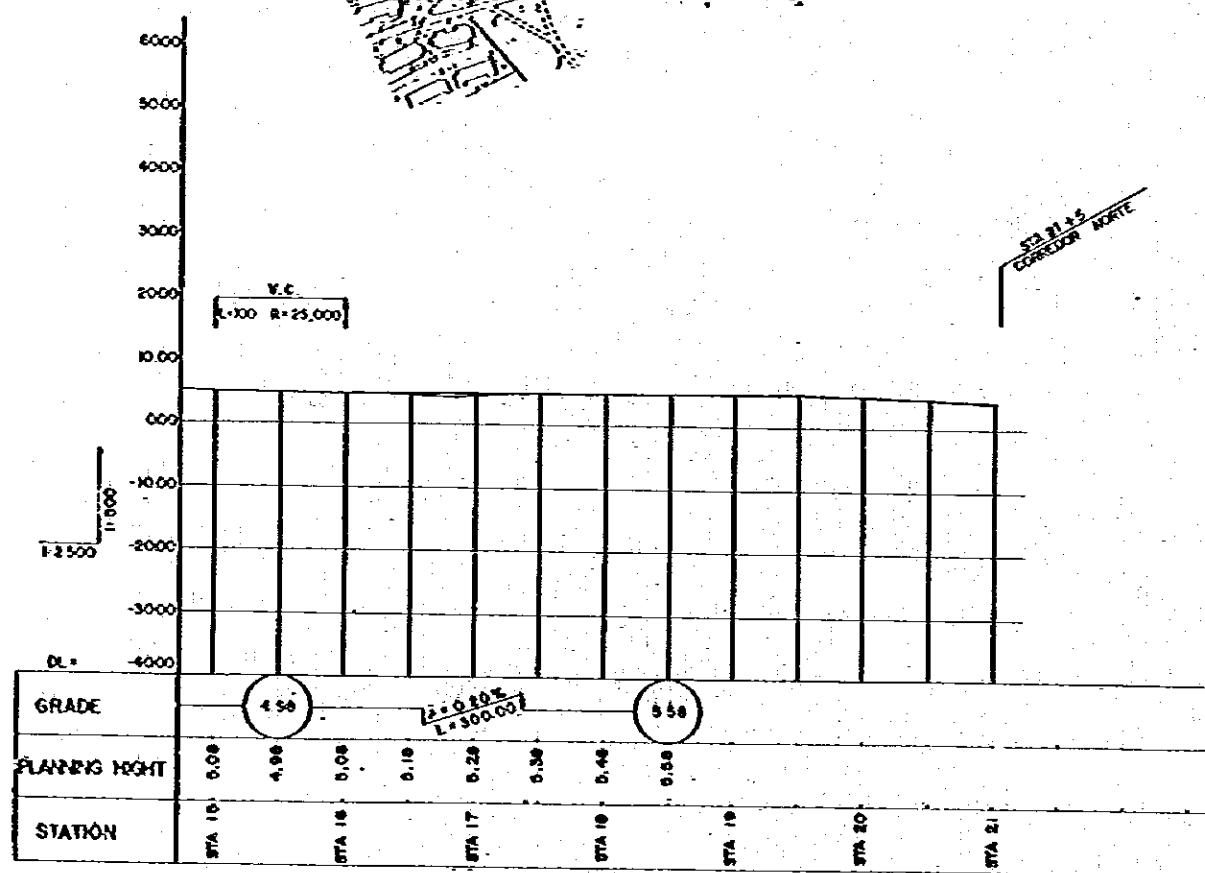
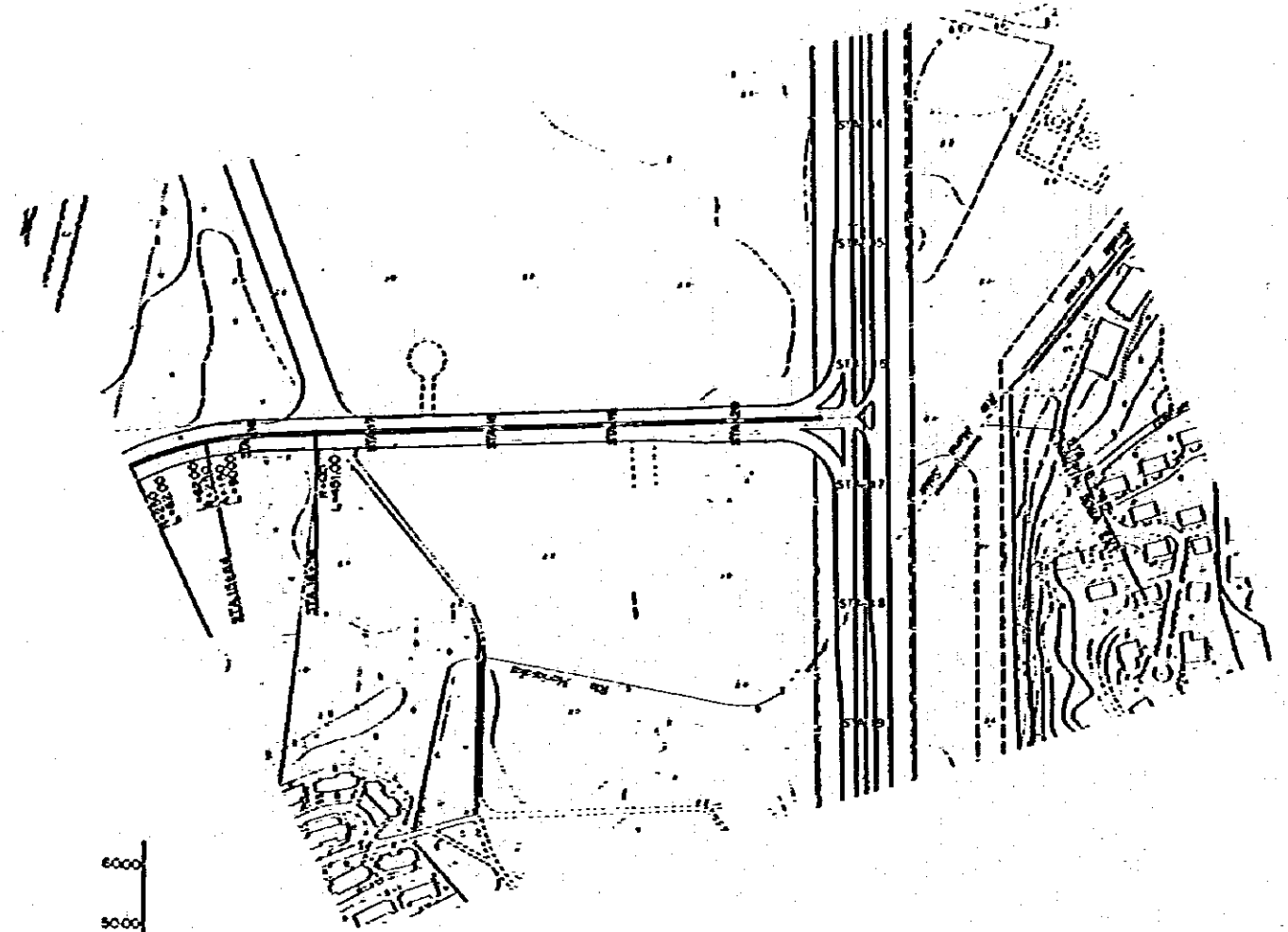
THE FEASIBILITY STUDY ON URBAN TRANSPORT PROJECT IN PANAMA METROPOLITAN AREA
ESTUDIO DE FACTIBILIDAD DE PROYECTOS DE TRANSPORTE URBANO PARA EL AREA METROPOLITANA

TITLE TYPICAL CROSS SECTION OF MARTIN SOSA EXTENSION
TITULO SECCION TRANSVERSAL TIPICA EN LA EXTENSION DE LA MARTIN SOSA

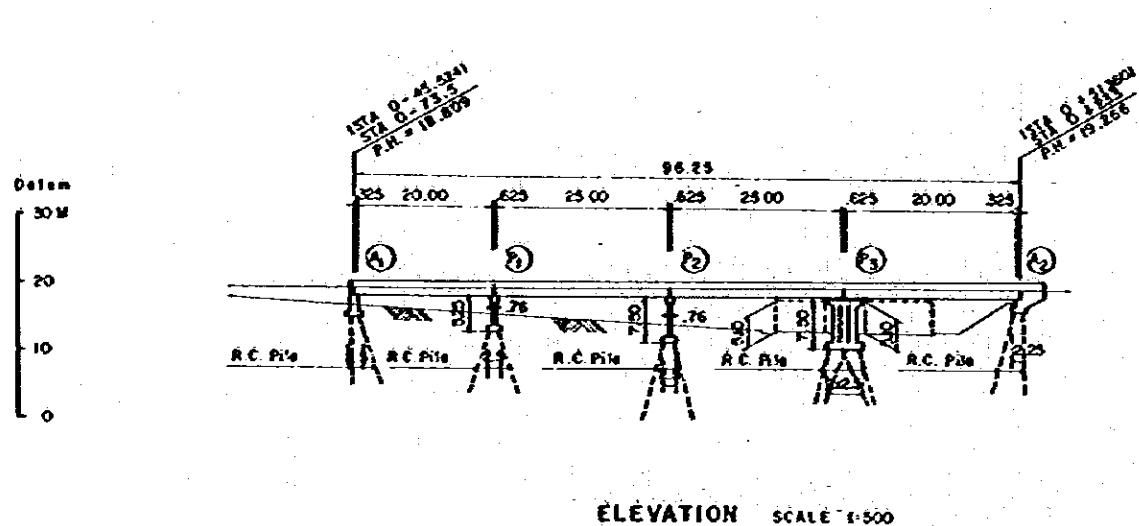
SCALE
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FECHA

PAGE NO. 47
PAGE NO.
HOJA NO.

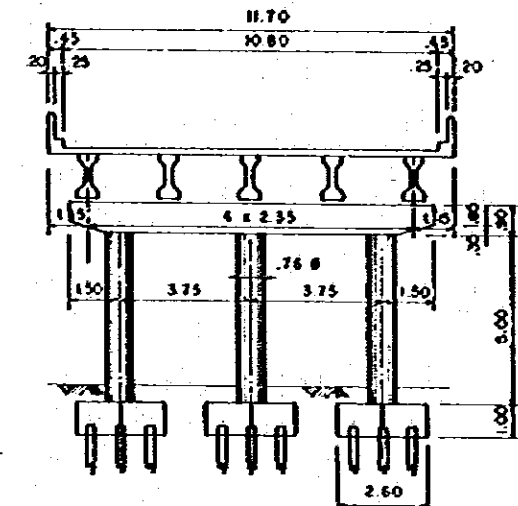




STA 21.55
CONSIDER MOVIE



ELEVATION SCALE 1:500

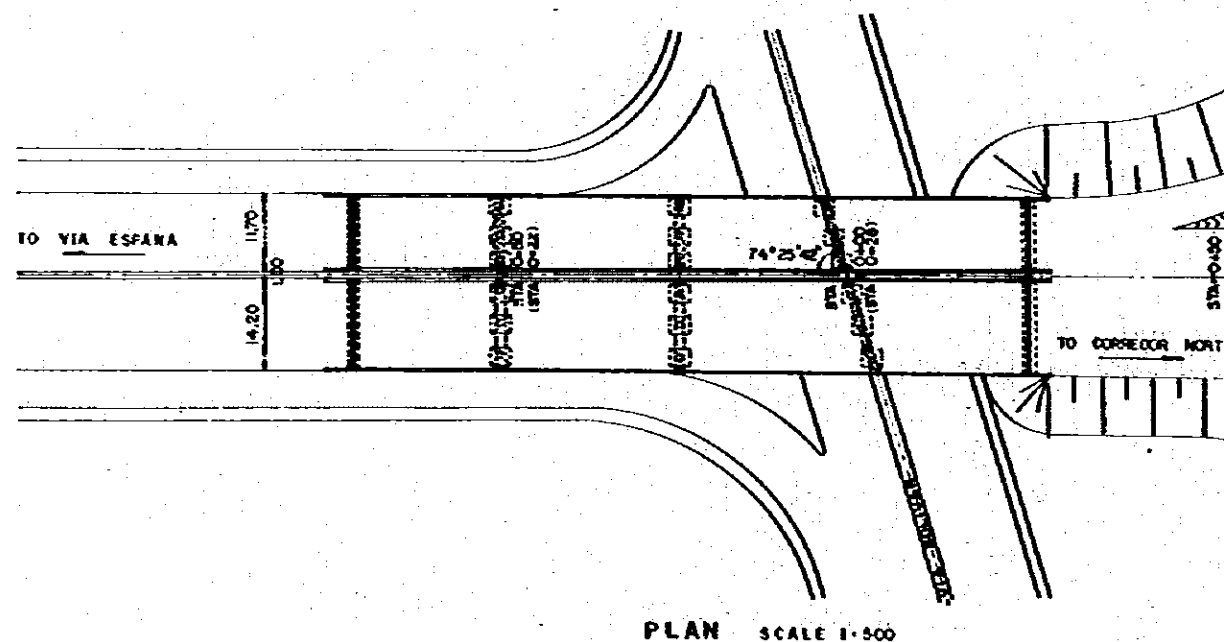


SECTION SCALE 1:100

GRADE	18.73	18.73	18.73	18.73	18.73	19.266
PLANNING HEIGHT	18.73	18.73	18.73	18.73	18.73	19.266
GROUND HEIGHT	15.00	15.10	14.20	12.00	12.10	12.60
STATION	0+41.5841	0+73.5	0+98.5	0+123.5	0+148.5	0+213.5

DESIGN DATA

TYPE	R.C. SIMPLE COMPOSITE GRADE
TOTAL BRIDGE LENGTH	96 ^m 25
GRADE LENGTH	96 ^m 20
SPAN	3 @ 25 ^m 00, 20 ^m 00
WIDTH	10 ^m 80
LIVE LOAD	HS 20-44 (M18)
IMPACT COEFFICIENT	1 + 15.24 / (L + 30)
SEISMIC INTENSITY	6 + 0.06
STANDARD	AASHTO



PLAN SCALE 1:500

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ESTAMPA II

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THE FEASIBILITY STUDY ON URBAN TRANSPORT PROJECT IN PANAMA METROPOLITAN AREA
ESTUDIO DE FACTIBILIDAD DE PROYECTOS DE TRANSPORTE URBANO PARA EL AREA METROPOLITANA

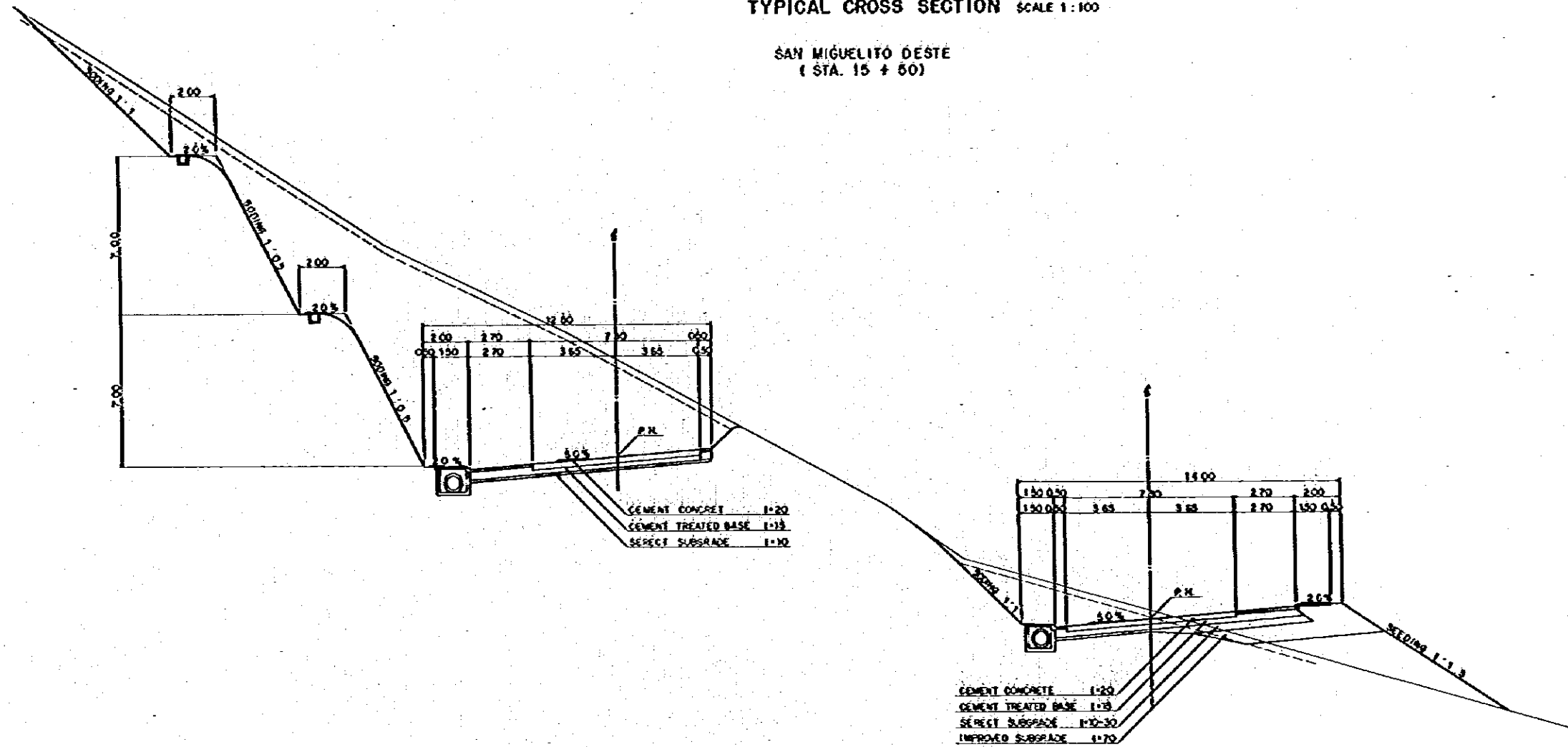
TITLE
TITULO
VIA MARTIN SOSA INTERSECCION BRIDGE
PASO ELEVADO DE LA VIA MARTIN SOSA

SCALE
ESCALA
GATE
PROPIA

PAGE NO.
PAGINA NO.
50
DWG NO.
NO. DISEÑO

TYPICAL CROSS SECTION SCALE 1:100

SAN MIGUELITO OESTE
(STA. 15 + 50)



DL 4000

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ESTAMPA II

JICA

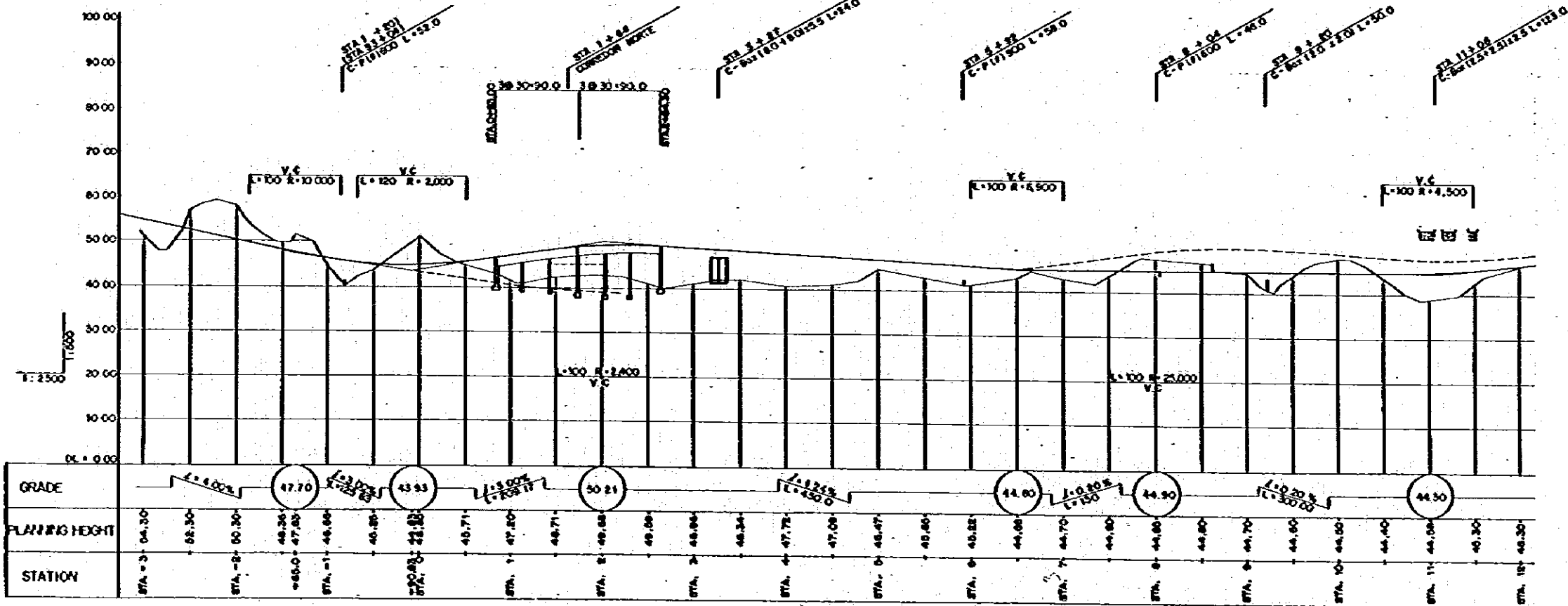
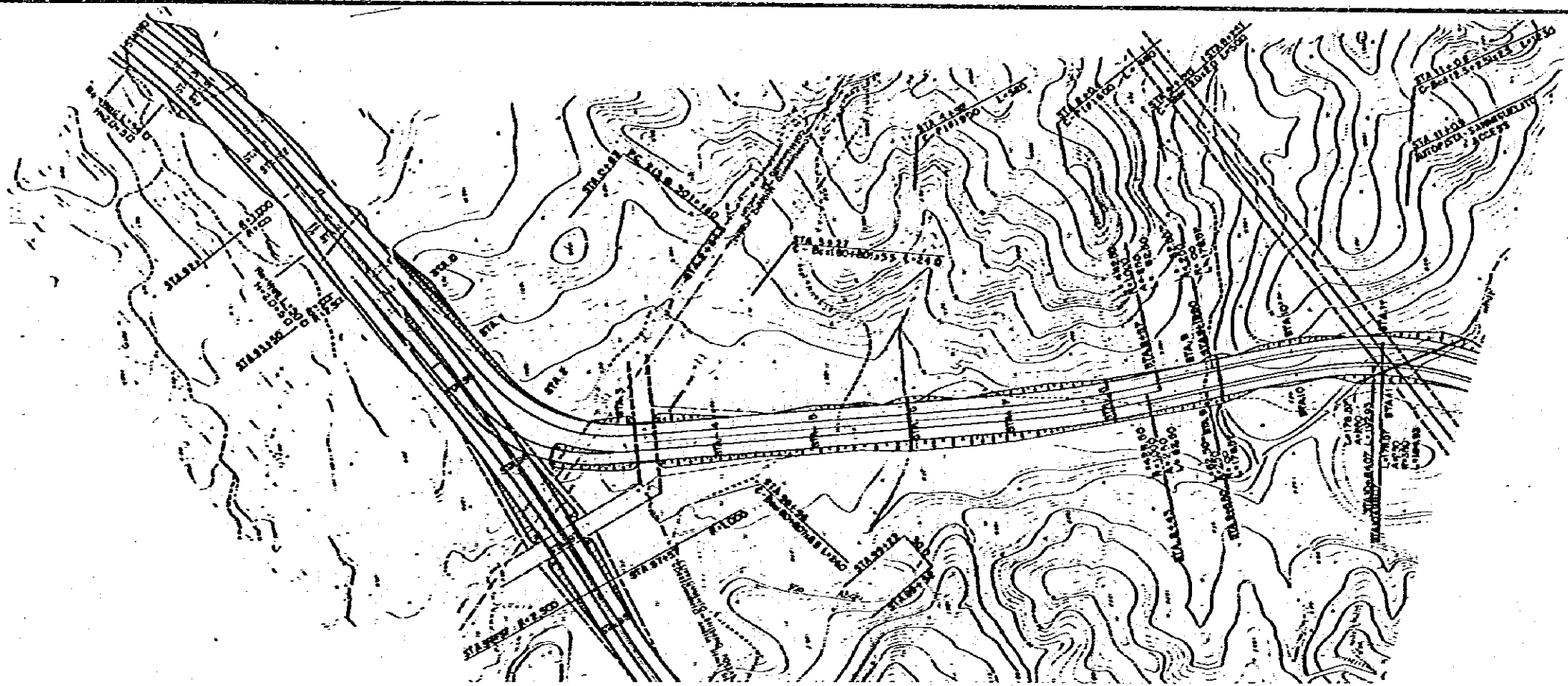
JAPAN INTERNATIONAL
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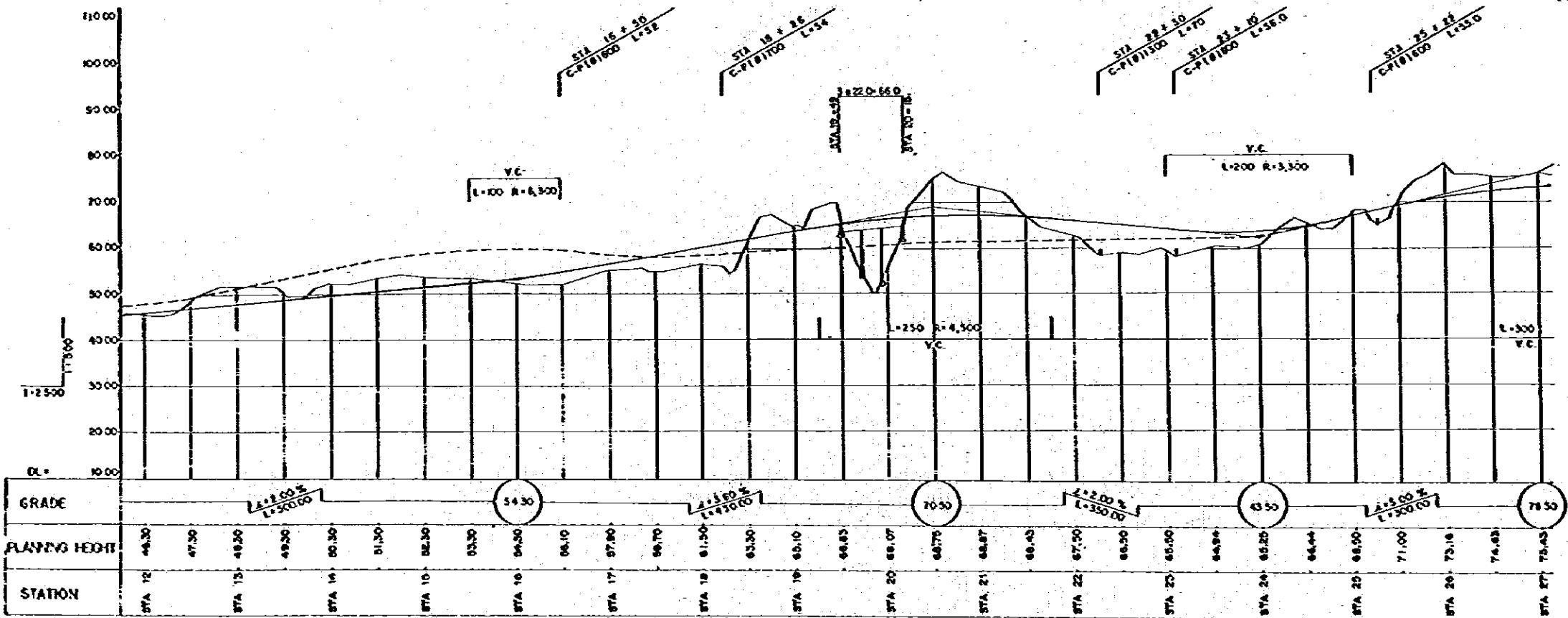
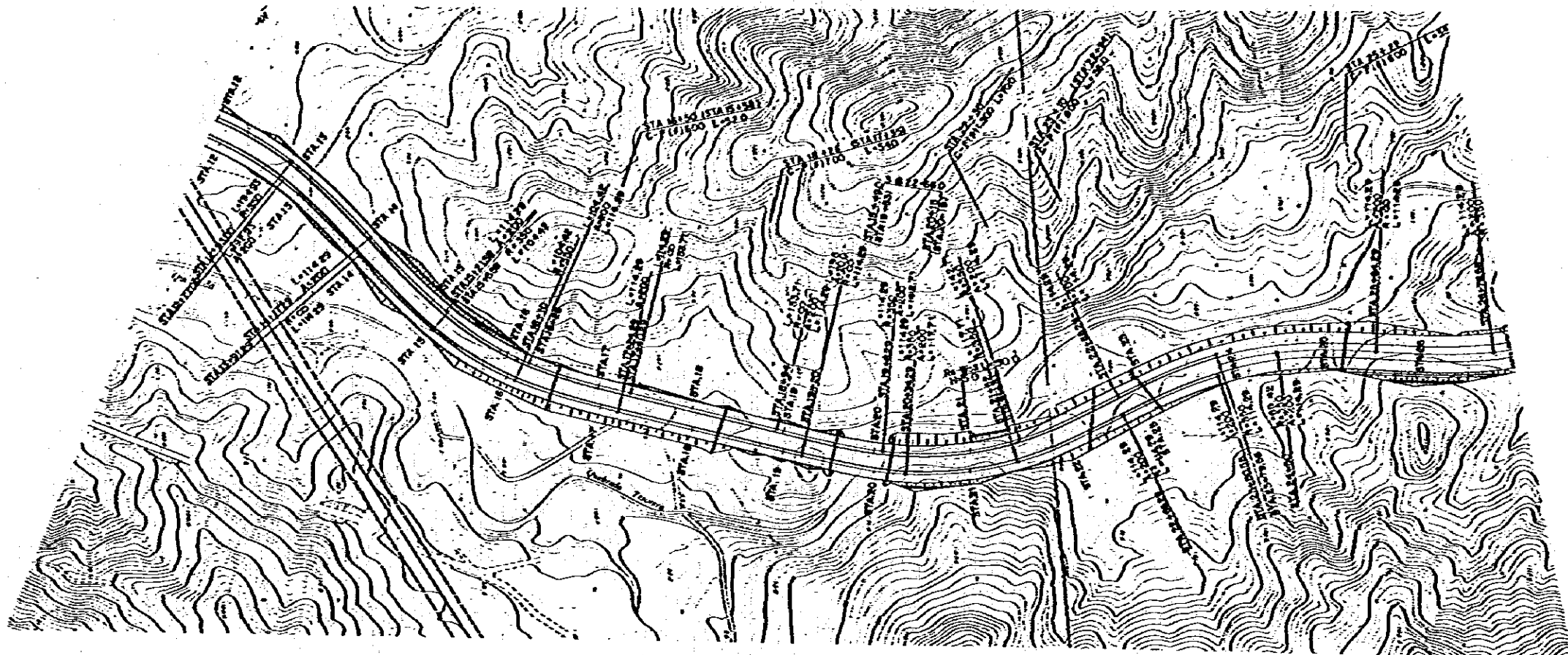
THE FEASIBILITY STUDY ON URBAN TRANSPORT PROJECT IN PANAMA METROPOLITAN AREA
ESTUDIO DE FACTIBILIDAD DE PROYECTOS DE TRANSPORTE URBANO PARA EL AREA METROPOLITANA

TITLE TYPICAL CROSS SECTION OF VIA SAN MIGUELITO OESTE
TITULO SECCION TRANSVERSAL TIPICA EN VIA SAN MIGUELITO OESTE

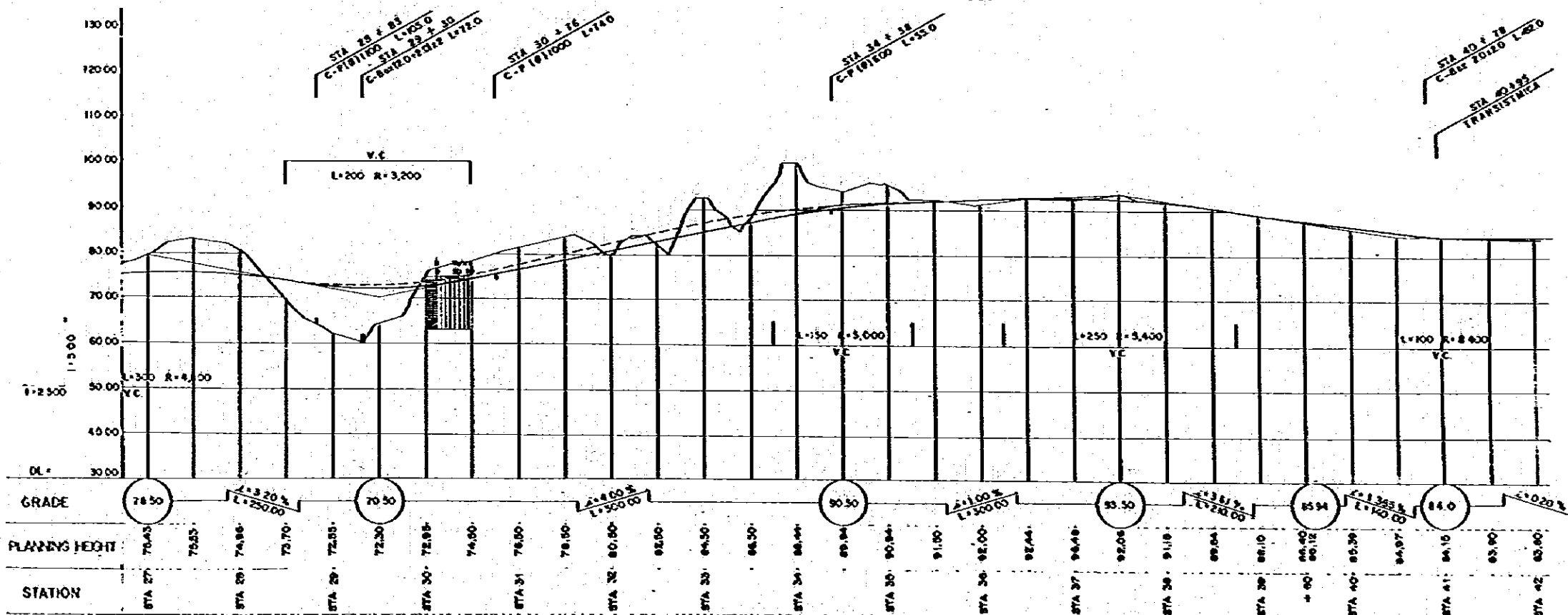
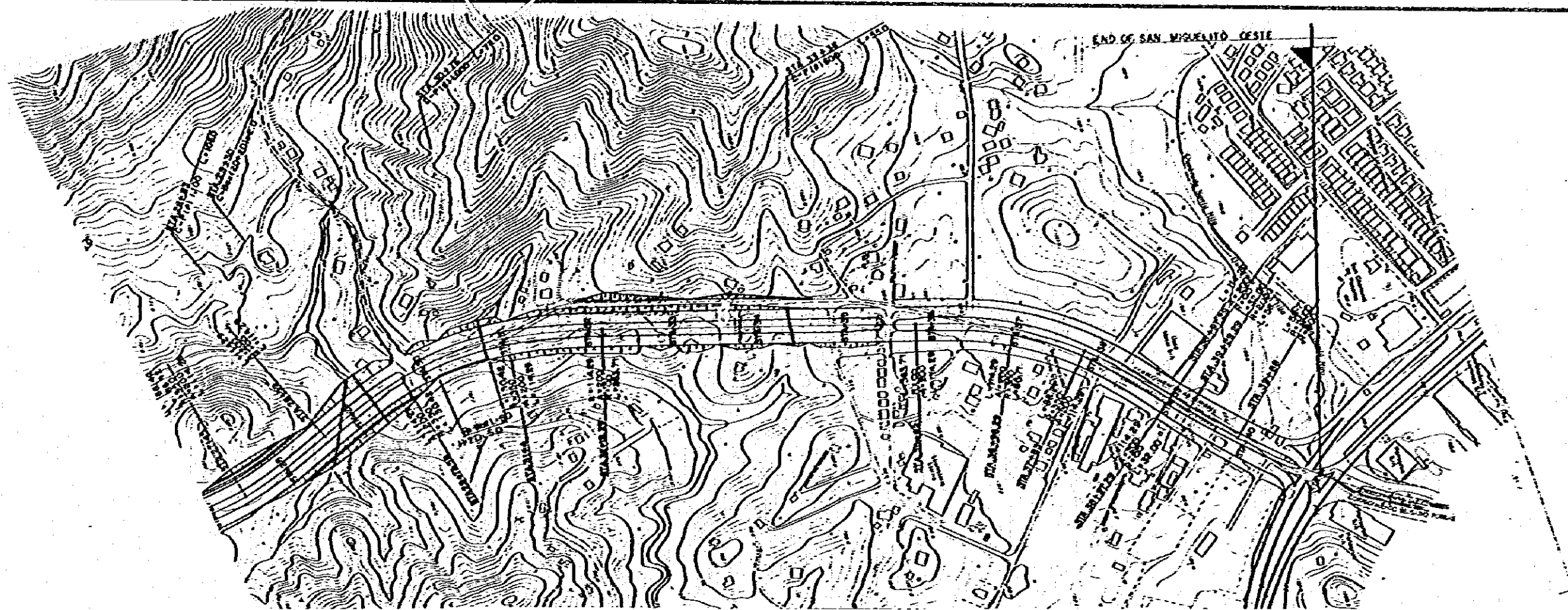
SCALE
ESCALE
DATE
FECHA

PAGE NO. 51
PAGE NO.
FOLIO NO.





GRADE	L=1.00 % L=300.00		54.30	L=1.50 % L=400.00		70.30	L=2.00 % L=350.00		43.50	L=1.50 % L=300.00		78.50																																																					
PLANNING HEIGHT	46.30	47.30	48.20	49.20	50.30	51.30	52.30	53.30	54.30	55.30	56.30	57.30	58.30	59.30	60.30	61.30	62.30	63.30	64.30	65.30	66.30	67.30	68.30	69.30	70.30	71.30	72.30	73.30	74.30	75.30	76.30	77.30	78.30	79.30	80.30	81.30	82.30	83.30	84.30	85.30	86.30	87.30	88.30	89.30	90.30	91.30	92.30	93.30	94.30	95.30	96.30	97.30	98.30	99.30	100.30	101.30	102.30	103.30	104.30	105.30	106.30	107.30	108.30	109.30	110.30
STATION	STA 12	STA 13	STA 14	STA 15	STA 16	STA 17	STA 18	STA 19	STA 20	STA 21	STA 22	STA 23	STA 24	STA 25	STA 26	STA 27																																																	



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