JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)
MINISTRY OF PUBLIC WORKS: REPUBLIC OF INDONESIA

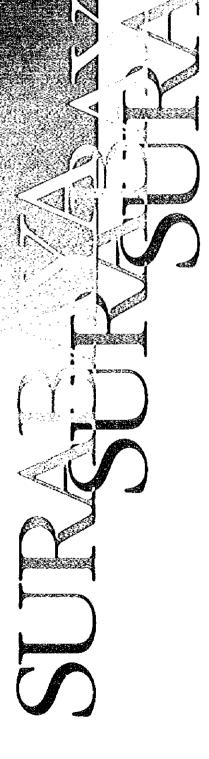
FOR
ARTERIAL ROAD SYSTEM DEVELOPMENT
IN
GERBANG KERTOSUSILA REGION
(SURABAYA METROPOLITAN AREA)

FINAL REPORT
DRAWINGS



**JULY 1997** 

PACIFIC CONSULTANTS INTERNATIONAL YACHIYO ENGINEERING CO., LTD.



SSF JR 97-089

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# JAPAN INTERNATIONAL COOPERATION AGENCY(JICA) MINISTRY OF PUBLIC WORKS REPUBLIC OF INDONESIA

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#### Sources of Topography:

Peta Garis Projek Drainasi Surabaya;

Photography: Nov.'82 S=1/10,000, Mapping: Mar.'83 S=1/2,500

Peta Garis Kali Surabaya Phase II;

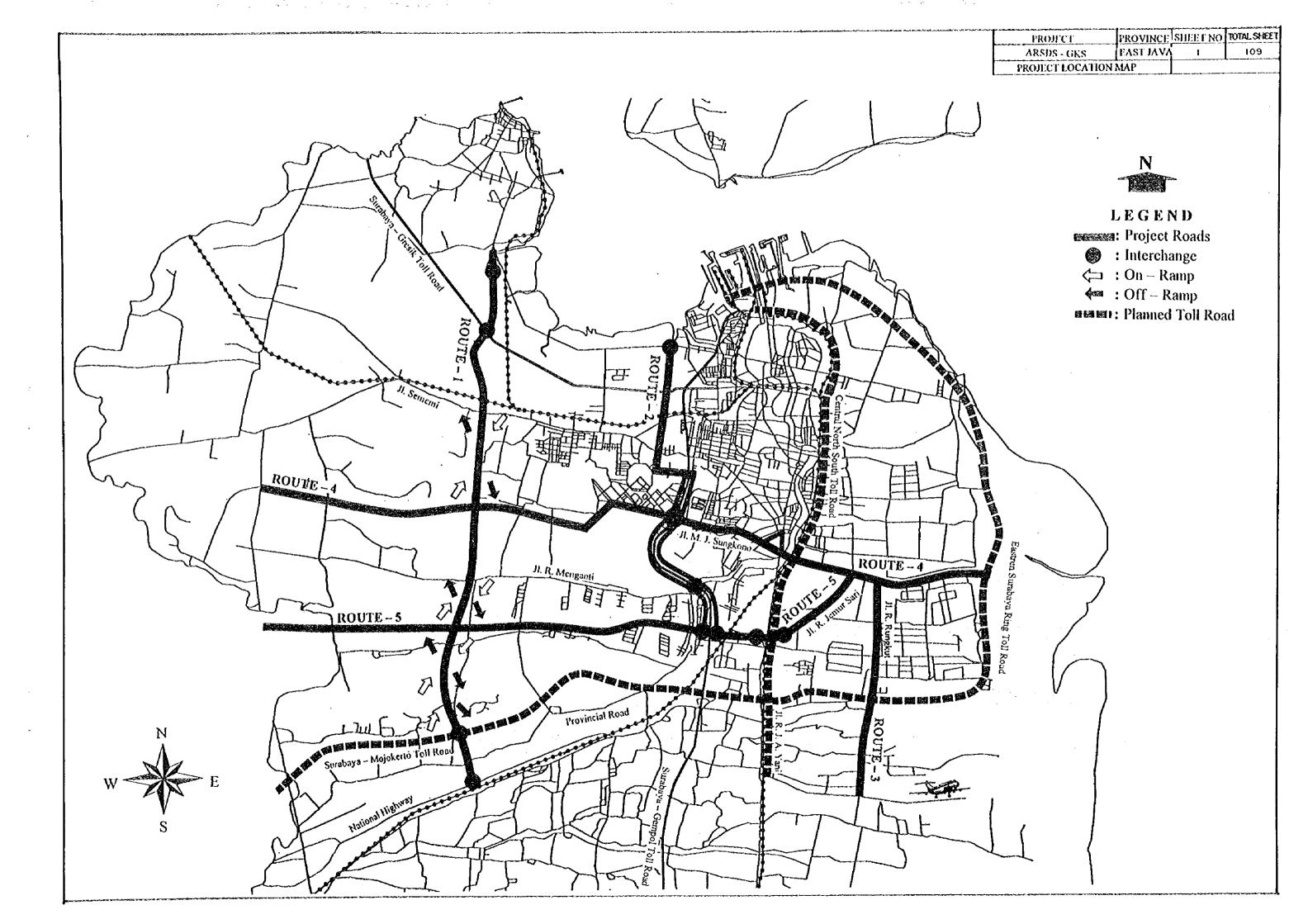
Photography: May.'88 S=1/10,000, Mapping: May.'89 S=1/2,500 by DPU Directorate Jenderal Pengairan, Badan Pelaksana Projek Induk Pengembangan Wiraha Sungai Kali Brantas

Peta Garis Surabaya Skala 1:5,000;

Photography: S=1/5,000, Mapping: S=1/1,000 by Pemerintah Kotamadya DT H Surabaya

#### Source of Aerial Photography:

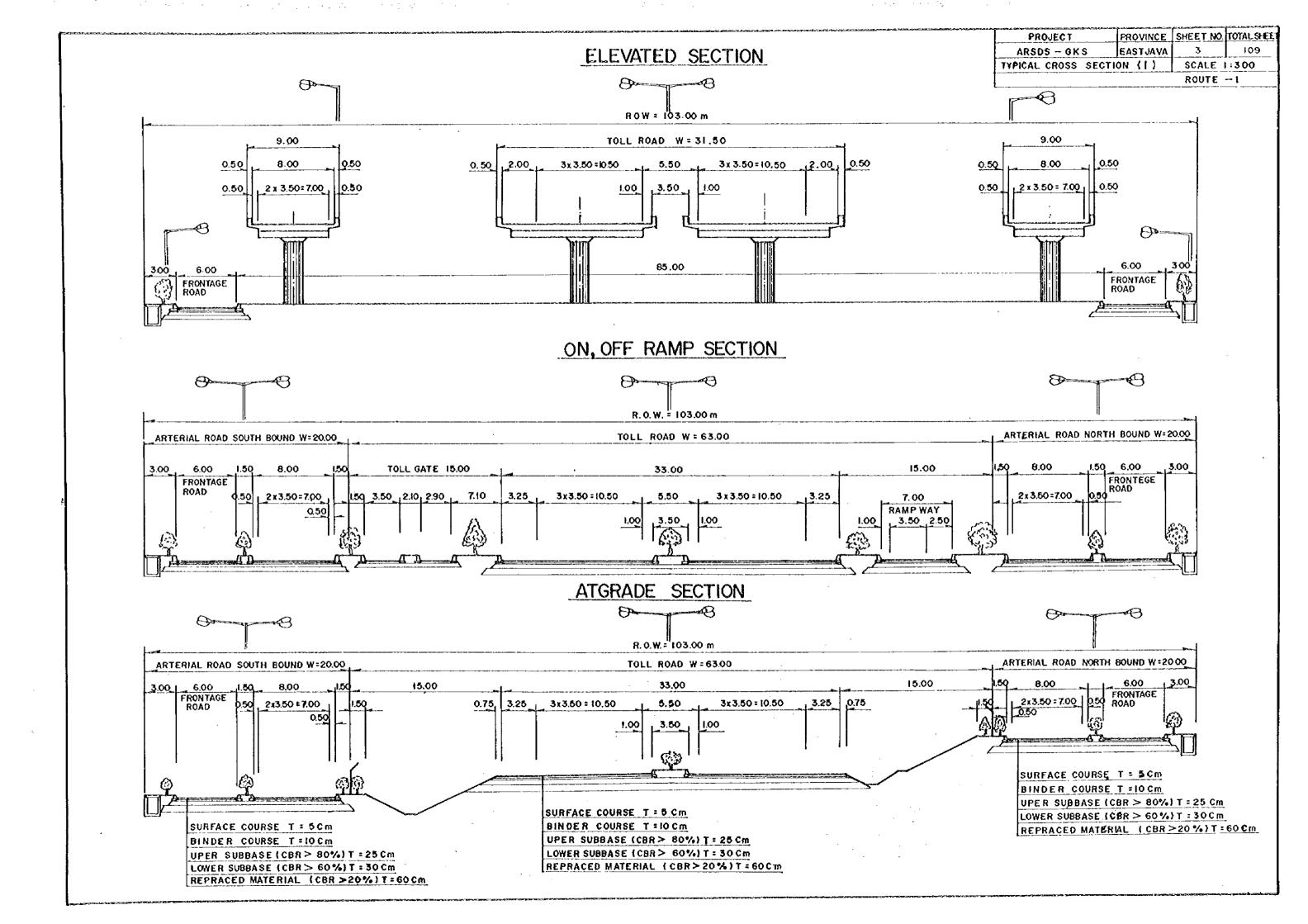
scale=1:30,000, photography: 1993/1994, BAKOSURTANAL



LEGENDA		<u></u>	
ARSDS - GKS	EAST JAVA	2	109
PROJECT	PROVINCE	SHEET NO.	TOTAL SHEET

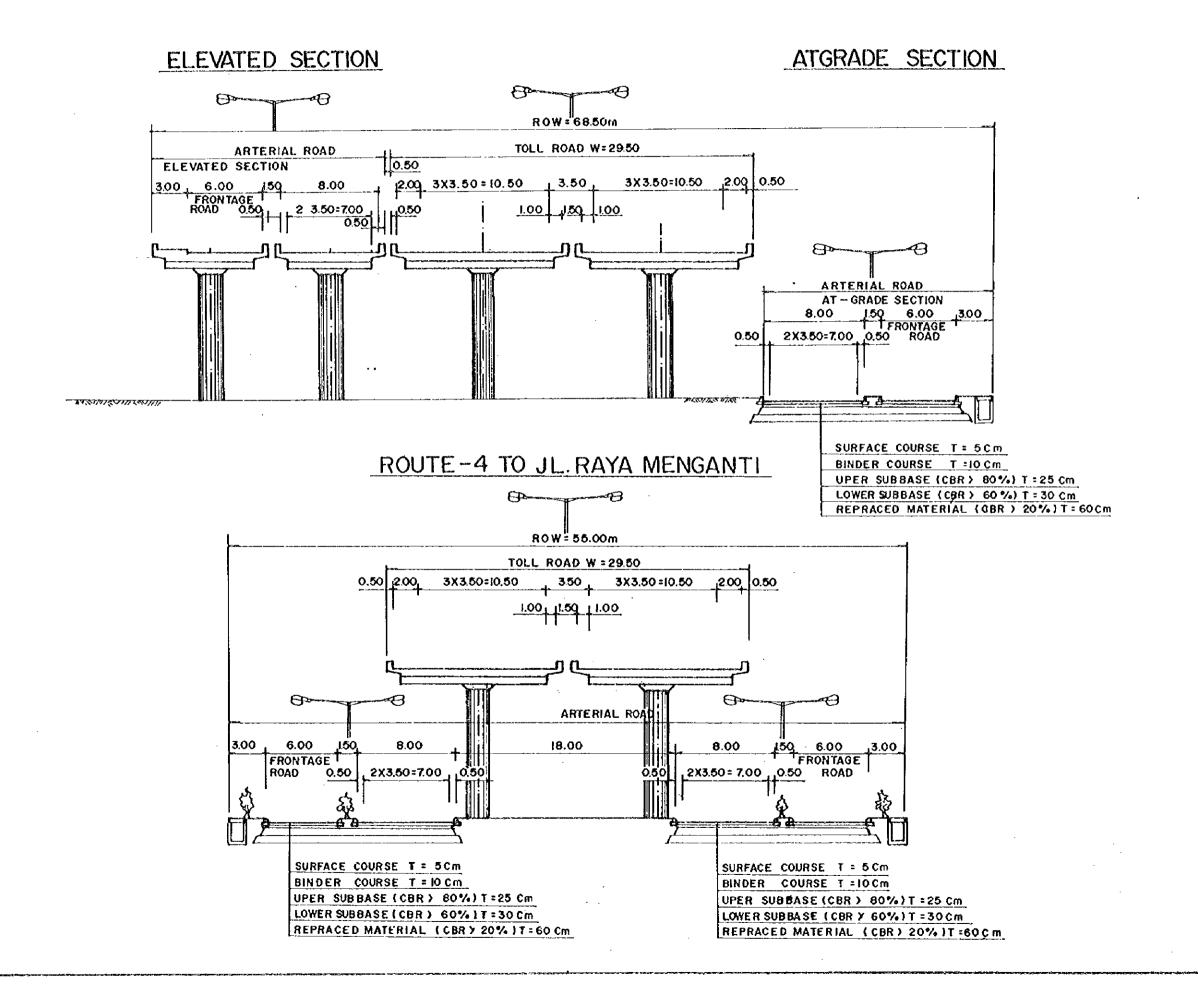
## LEGENDA LEGEND

2561	Kontur dan titik tinggi Spot elevation	ப்படிக்	Rumput - Alang alang Grass	<b>,</b> ∳∙	Gardu listrik Transformen house
<b>(3)</b>	Pasir / Krikil gosong timbul Sand	Ω ¥	Bakov — Palem Mangrove — Hemp polm	Utau	Kuburan Islam — Kristen — Tionghoo — Bali Moslem graves — Cristlan graves — Chinese graves — Hindu graves
	Sungol/Anak sungal River	* [	Bombu - Pohon pohonan  Bombo - Rubber Plontation	Section of the sectio	Jalan aspal — Jolan tidok diaspal Paved road — Unpoved road
冶	Tempot pompo air Water pomp station	t t P	Kelapa — Karet — Jati Palm plantation — Rubber plantation — Teak plantation	क्षेत्रक अस्त्रको क्षेत्रको स्टब्स्	Jolan setapak Trock
-	Saluran Channel	ν ₹	Ten — Cemaro / Pinus Teo plantation	*******	Jalan sedang dibuat Rood under construction
<b>⋺</b> -€	8endung Dom		Rumoh House / Bullding	* * * * * *	Tanggul Dike
∋€	8endungan Dam	1	Kantor Pemerintahan Government office	<b>&gt;</b>	Jembotan Batu/Besi Concrete and Iron Bridge
JC	Pintu air Sluice		Sekolahan School	81	Jalan kereta opi / Station Railway and station
	Rowa Swamp	₩	Rumah sakit Hospitat	-0-0-	Hantaran listrik tegangan tinggi Electricity power line
WE)	Tanah bencah — Empang Marshy place — Fish pond	⋫	Pabrik Factory	++-	Batas Kabupaten Kabupaten boundary
	Pematang Small dikes	(	Pagar Fence	<del>-</del>	Batas Kecomatan Kecamotan boundary
πΛA	Sawah — Ladong — Tebu Rice field—Farm/Cultivated—Sugar cone		Los pasor Open market		Batas Desa Desa boundary
· (ô)	Huton belantaro — Belukar Dense forest — Forest	* * *	Mosjid — Gereja – Kelenteng — Puro Mosque — Church — Temple — Hindu temple		

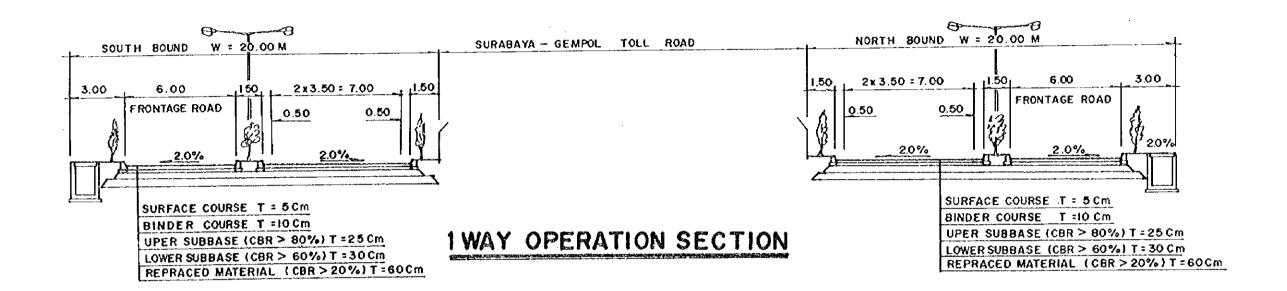


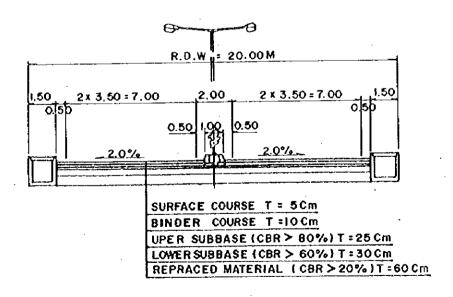
TYPICAL CROSS SECT	SCAL	.E.1:300	
ARSDS-GKS EA	ST JAVA	4	109
PROJECT PR	ROJECT	SHEET I	NO TOT SHEET

## STA.19+00 TO STA. 20+800



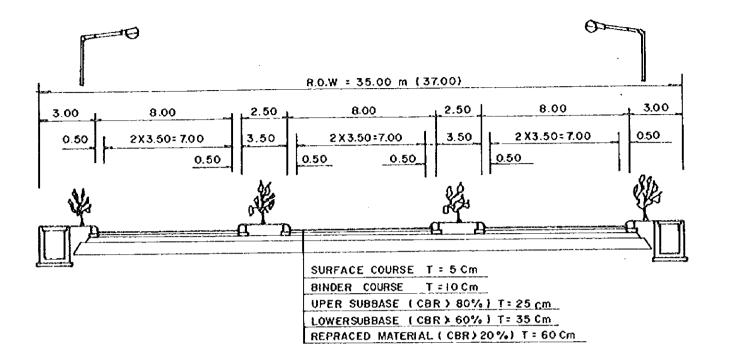
PROJECT	PROVINCE	SHEET NO	TOT. SHEET
ARSDS - GKS	EAST JAVA	5	109
TYPICAL CROSS	SECTION (3)	SCALE I	: 200
		ROUY	E-2



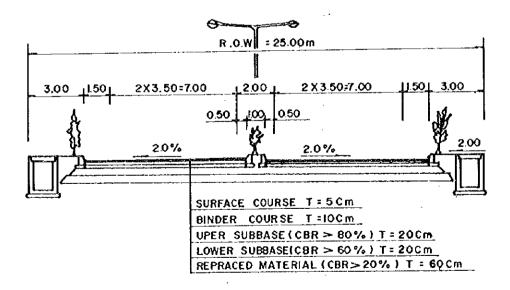


## 2 WAY OPERATION SECTION

PROJECT	PROVINCE	SHEET NO.	TOTAL SHEET			
ARSDS - GKS	EAST JAVA	6	109			
TYPICAL CROSS S	ection(4)	SCALE	1: 300			
ROUTE 3 AND 5						



## ROUTE - 5



ROUTE - 3

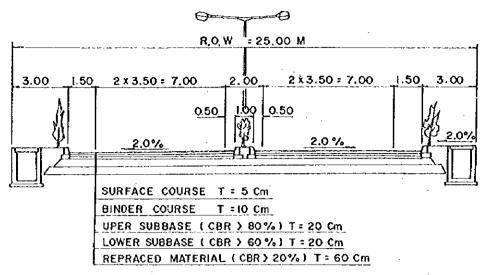
### STA.19 + 00 TO STA.27 + 000

PROJECT PROVINCE SHEET NO TOTAL SHEET

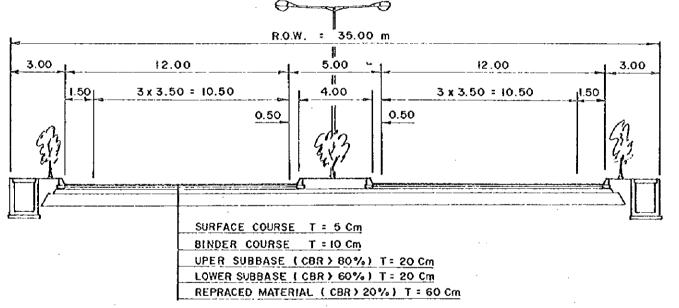
ARSDS - GKS EAST JAVA 7 109

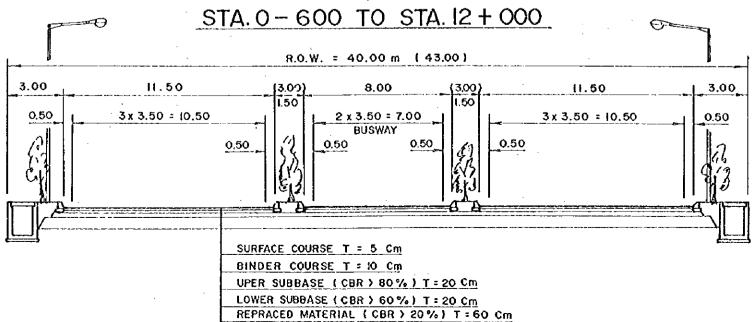
TYPICAL CROSS SECTION(5) SCALE 1:200

ROUTE - 4

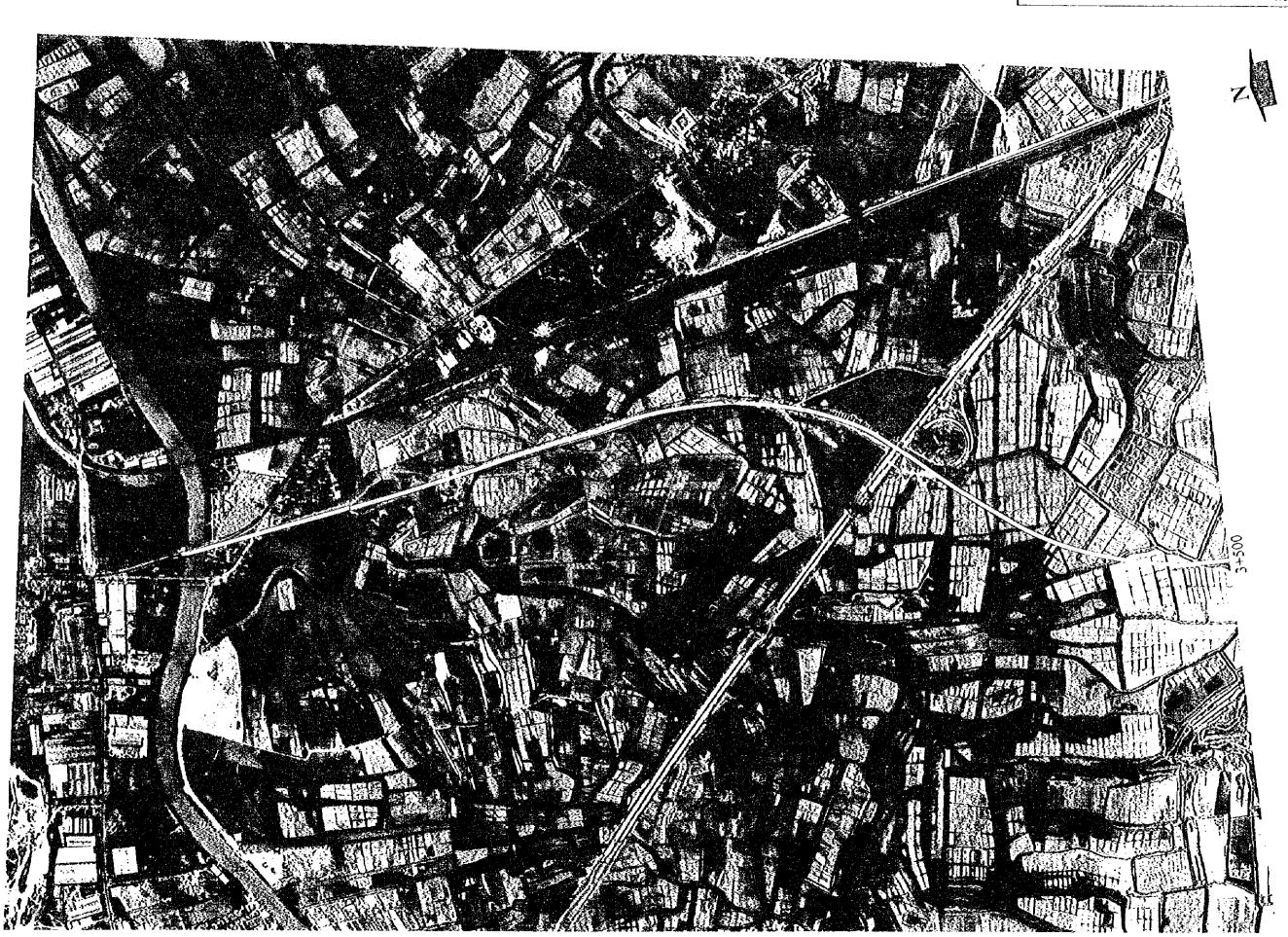


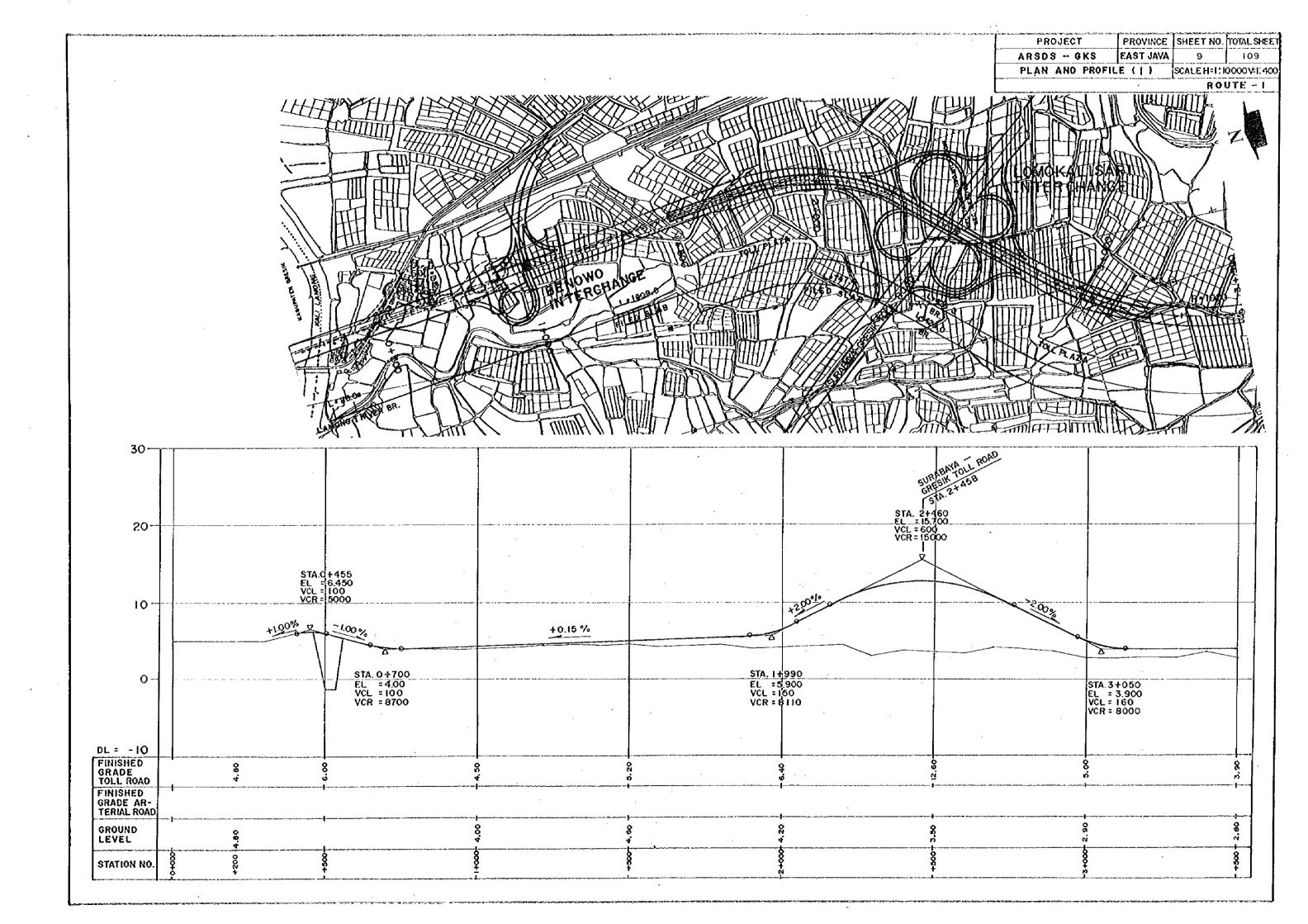
### STA.12 + 000 TO STA.18 + 500





PROJECT			PRO	VINCE	SHEET	ИО	TOTAL SHEET
ARSO	S - GKS		EA\$1	JAVA	8		109
РНОТО	MOSAIC	(	1	)	SCAL	E I	. 10 000
			•			RO	UTE - 1

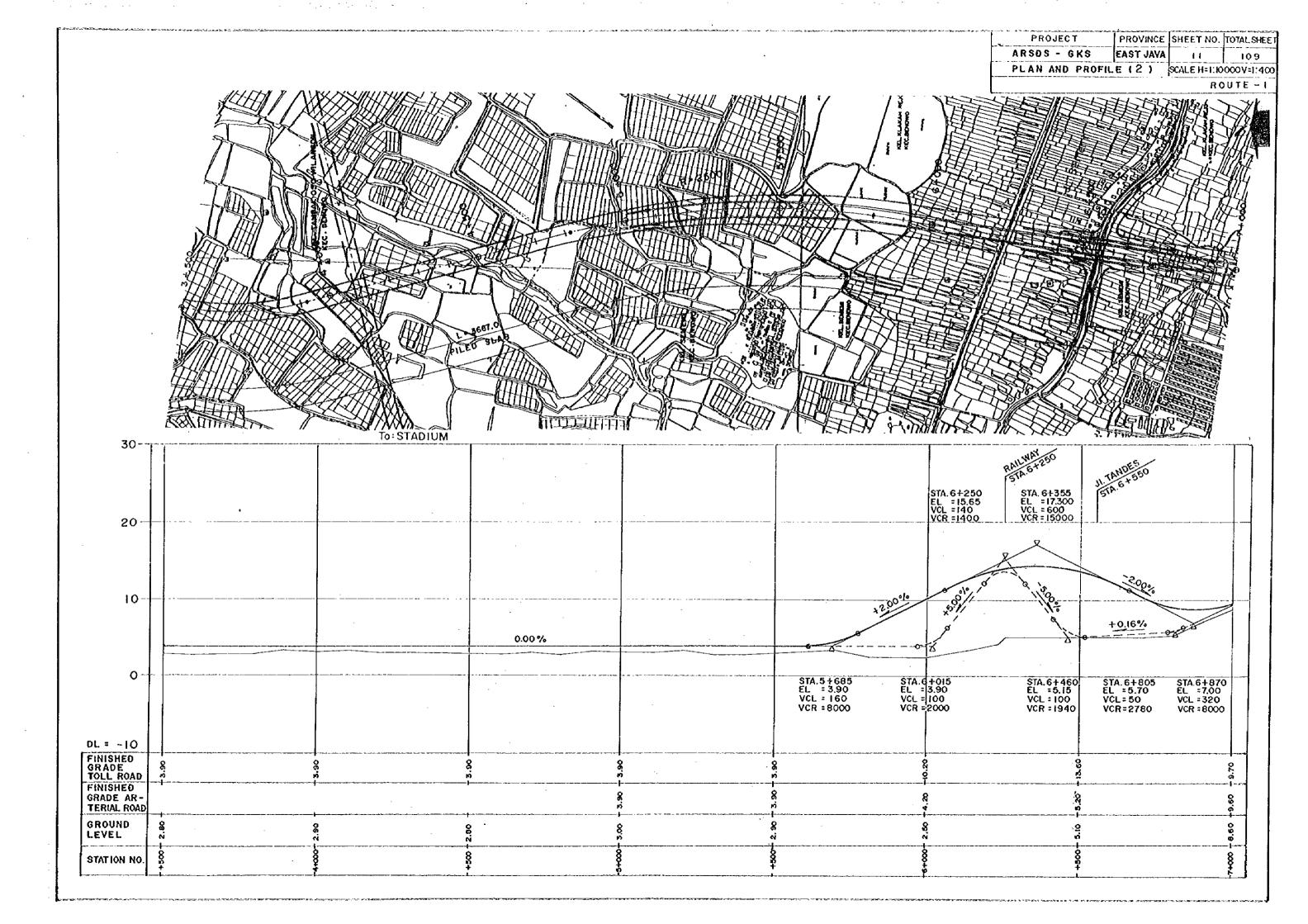




Ī			PROVINCE					
	ARSD	S - GKS		EA:	ST JAVA	10		109
Ĺ	РНОТО	MOSAIC	(	2	)	SCALE	1 ;	10 000
							RO	UTE -I







PROJECT		PROVINCE		SHEET	NO	TOTAL SHEE		
ARSDS	- GKS		EAS	ST.	JAVA	12		109
РНОТО	MOSAIC	{	3	}		SCAL	εı	: 10 000

