

MALAYSIA

FEASIBILITY STUDY

FOR

BELURU / LONG LAMA / LIMBANG

TRUNK ROAD CONSTRUCTION

VOL. I DRAWINGS

DECEMBER 1978

JAPAN INTERNATIONAL COOPERATION AGENCY

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**FOR**

**BELURU/LONG LAMA/LIMBANG**

**TRUNK ROAD CONSTRUCTION**

**VOL. II DRAWINGS**

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# CONTENT

**MAP OF MALAYSIA**

**LOCATION MAP**

**TYPICAL CROSS SECTION** ————— **Sheet No. 1**

**PLAN AND PROFILE** ————— **Sheet No.2-19**

**BRIDGE** ————— **Sheet No.20-22**

国際協力事業団	
設立 昭和三十九年九月十八日	21130
登録No. 097033	6144
	SDF

NOVEMBER 1974

INTERNATIONAL COOPERATION AGENCY

# CONTENT

**MAP OF MALAYSIA**

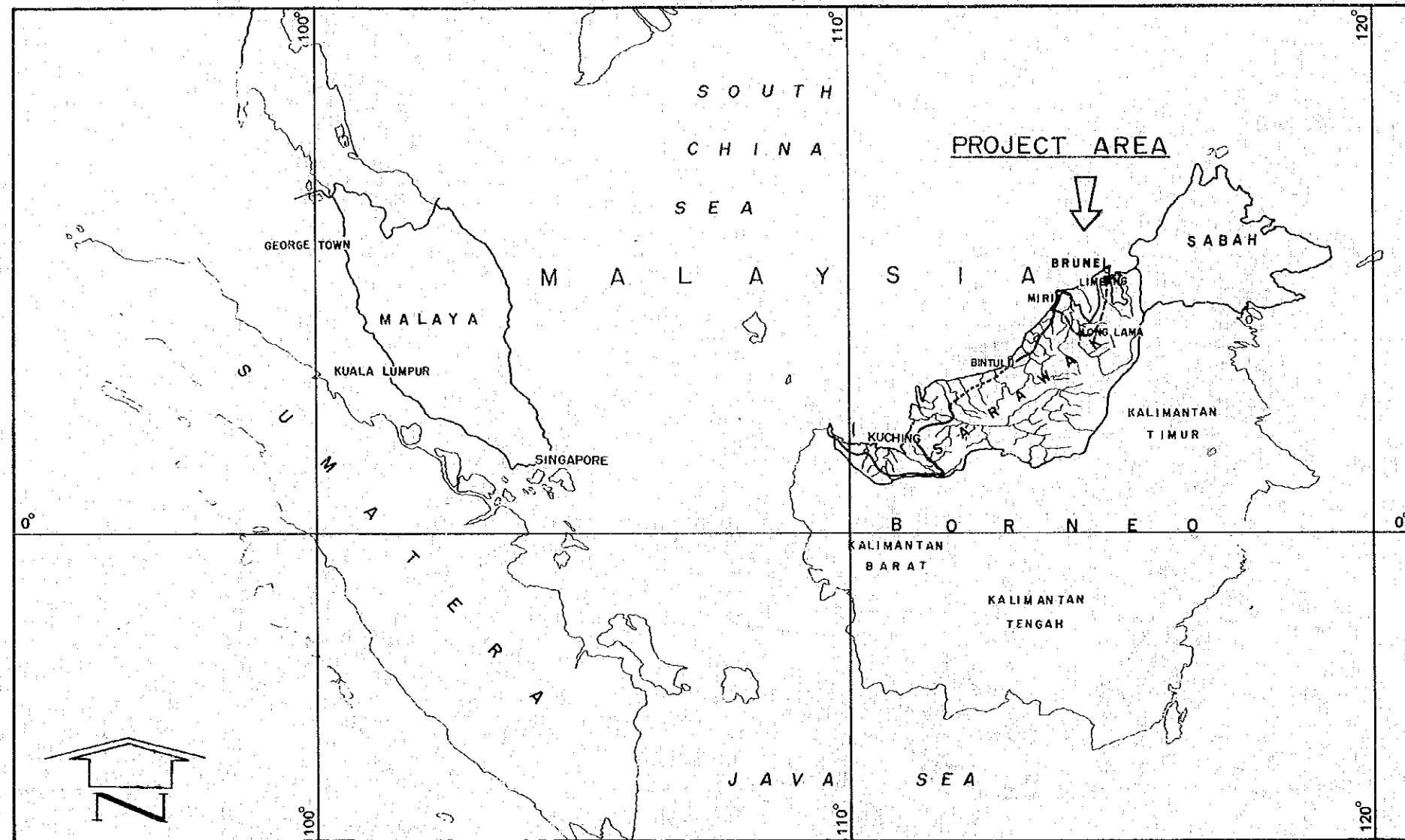
**LOCATION MAP**

**TYPICAL CROSS SECTION** \_\_\_\_\_ **Sheet No. 1**

**PLAN AND PROFILE** \_\_\_\_\_ **Sheet No.2-19**

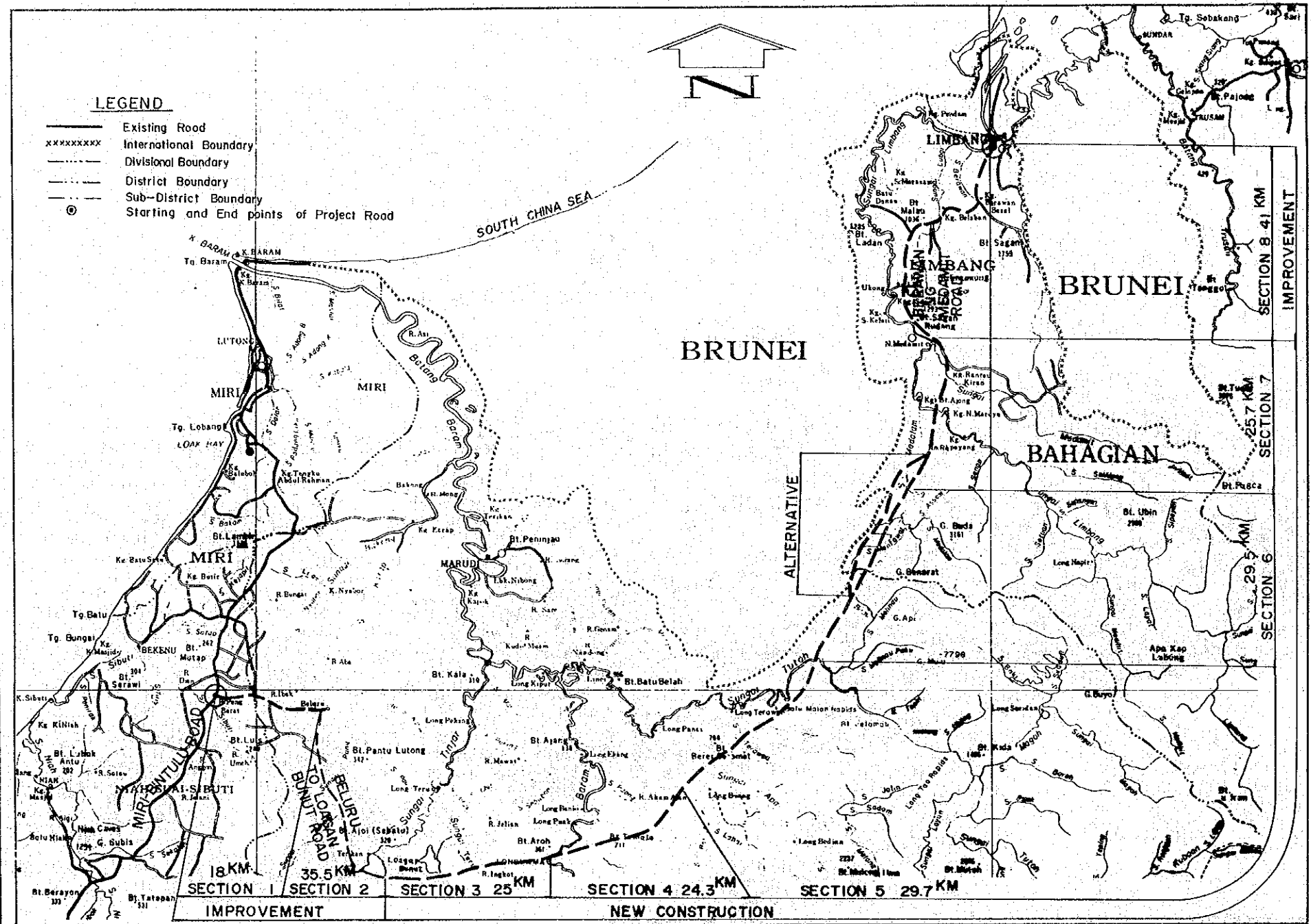
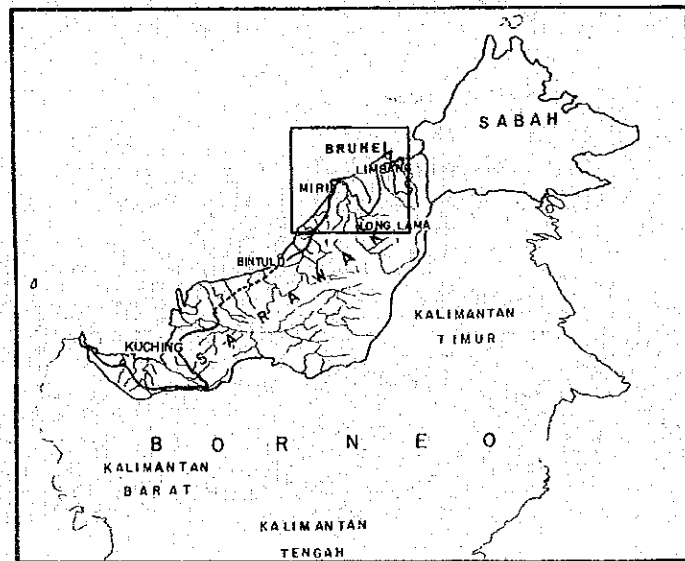
**BRIDGE** \_\_\_\_\_ **Sheet No.20-22**

# MAP OF MALAYSIA

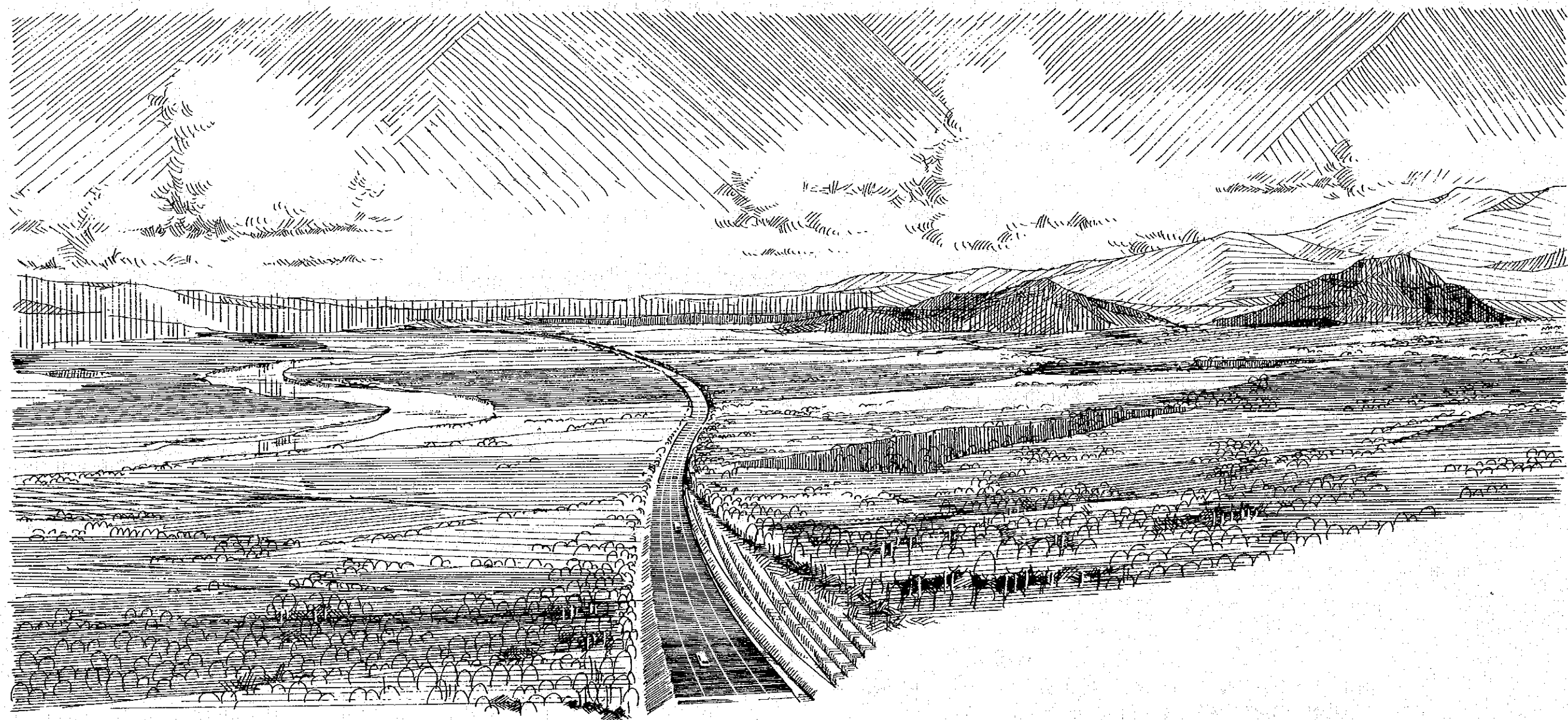


# LOCATION MAP

## KEY MAP



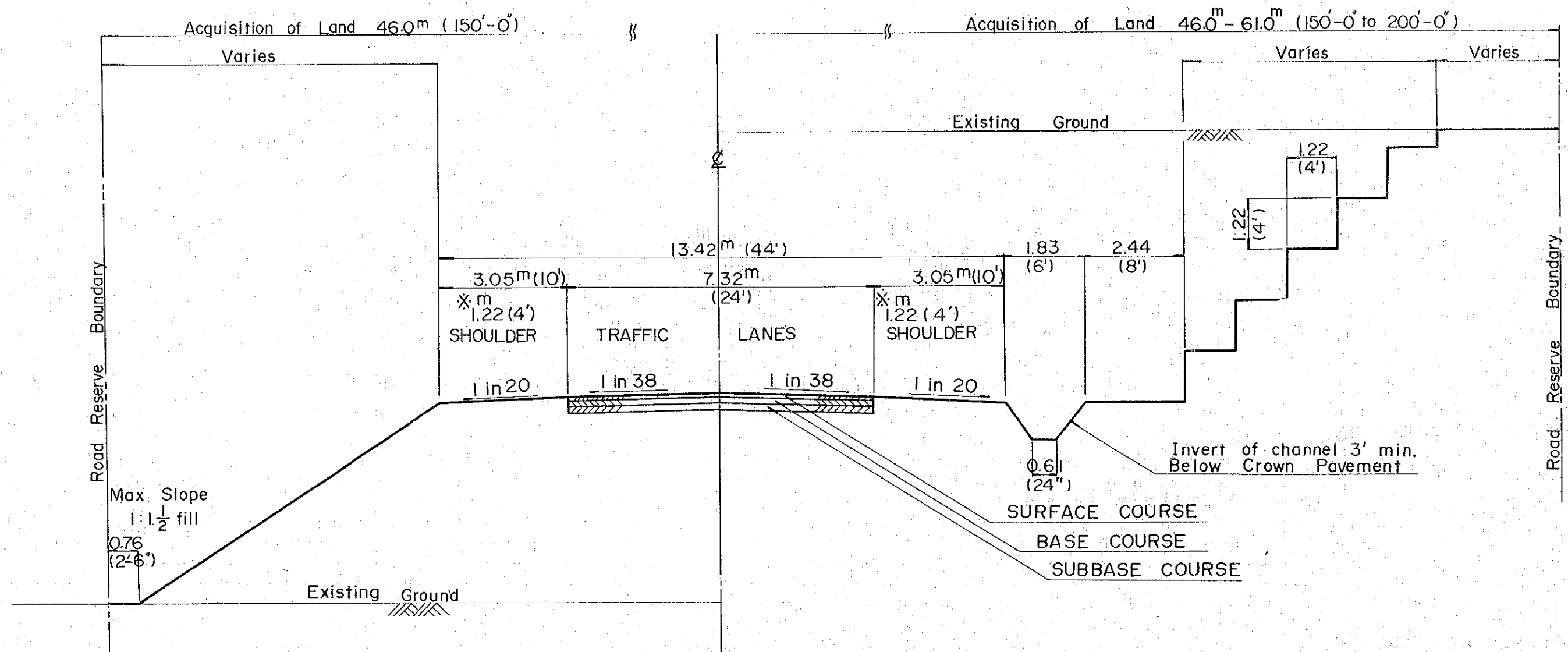




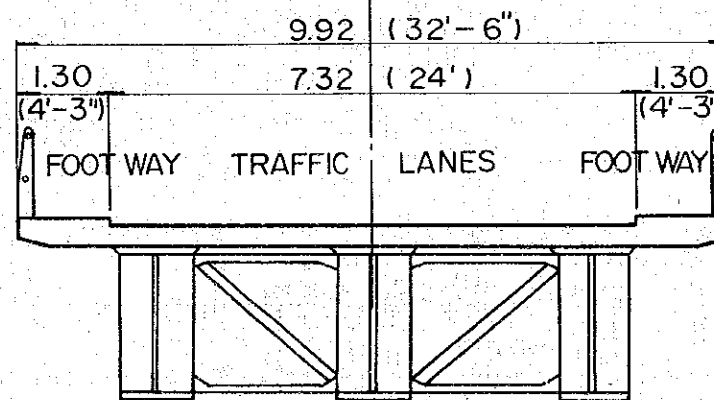
PROJECT	SHEET NO.	TOTAL SHEET
BELURU / LONG LAMA / LIMBANG TRUNK ROAD CONSTRUCTION PROJECT	1	22
TYPICAL CROSS SECTION		SCALE 1:100

EMBANKMENT SECTION

CUT SECTION



BRIDGE

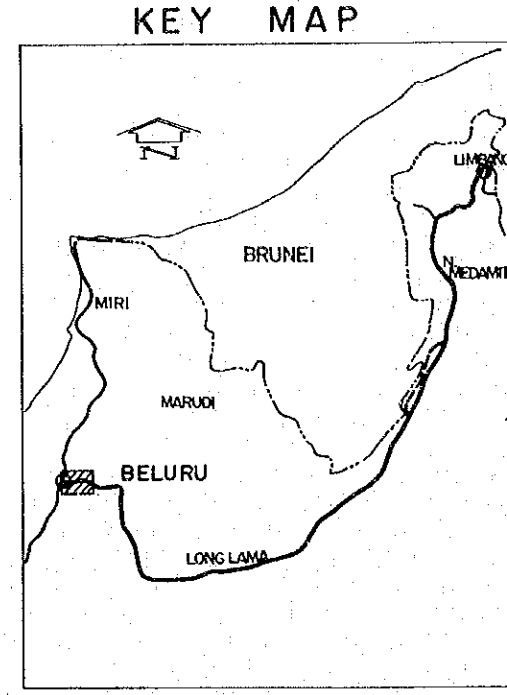
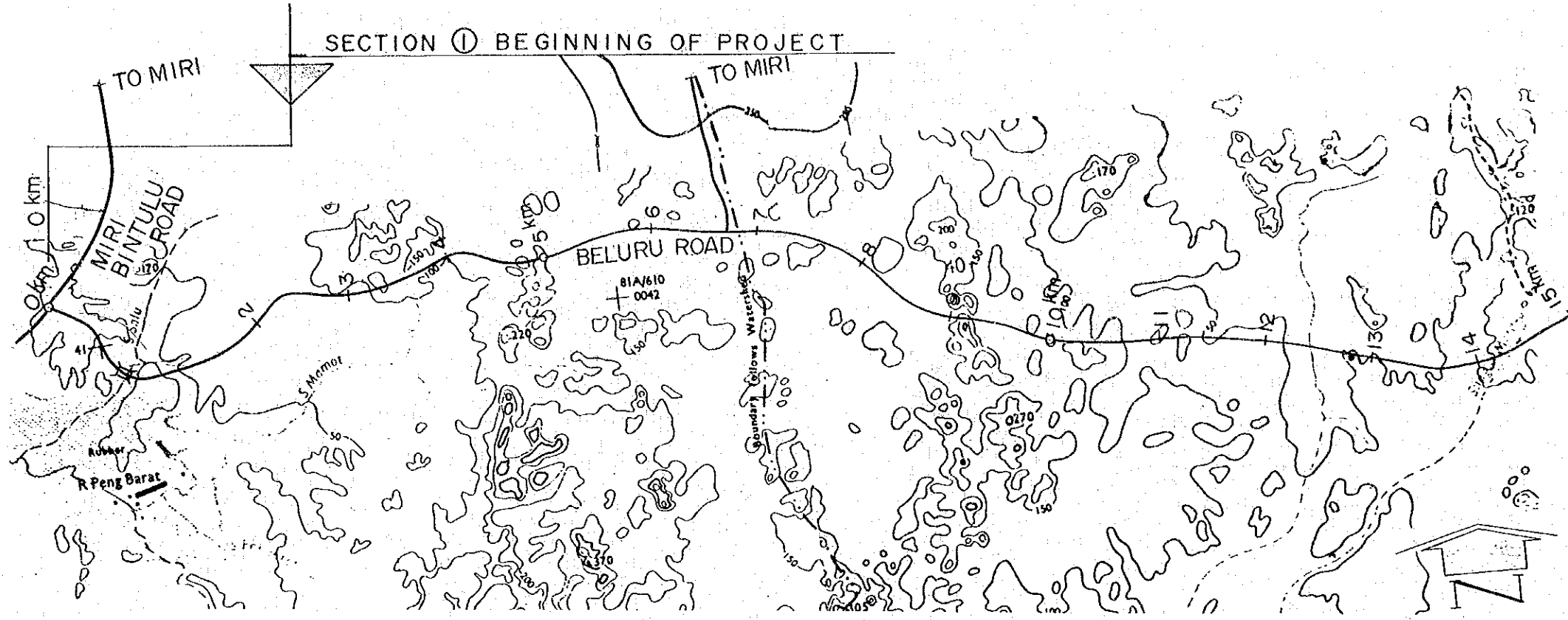


NOTE

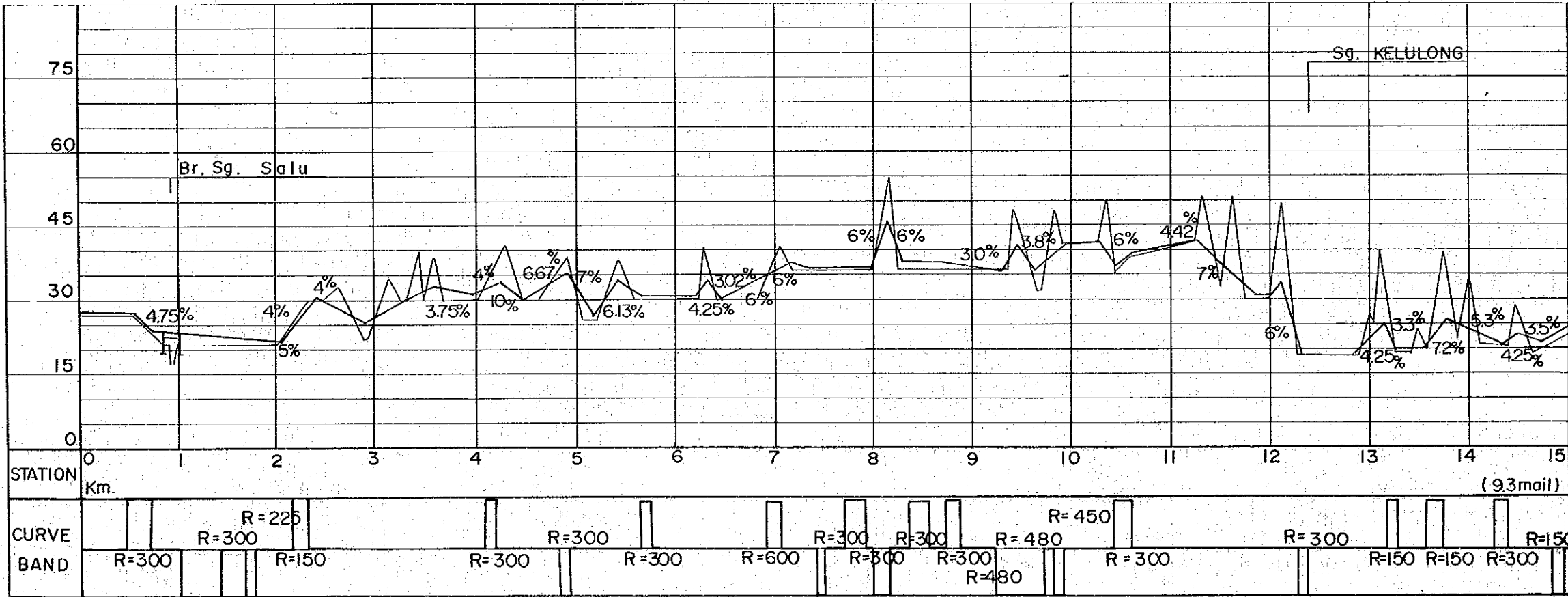
\* 1.22<sup>m</sup> (4') IS THE WIDTH OF SHOULDER ON THE MOUNTAINOUS AREA FOR TERRAIN EVALUATION.

PROJECT	SHEET NO.	TOTAL SHEET
BELURU / LONG LAMA / LIMBANG TRUNK ROAD CONSTRUCTION PROJECT	2	22
PLAN AND PROFILE	SCALE	H=1: 50,000 V=1: 1,000

# PLAN



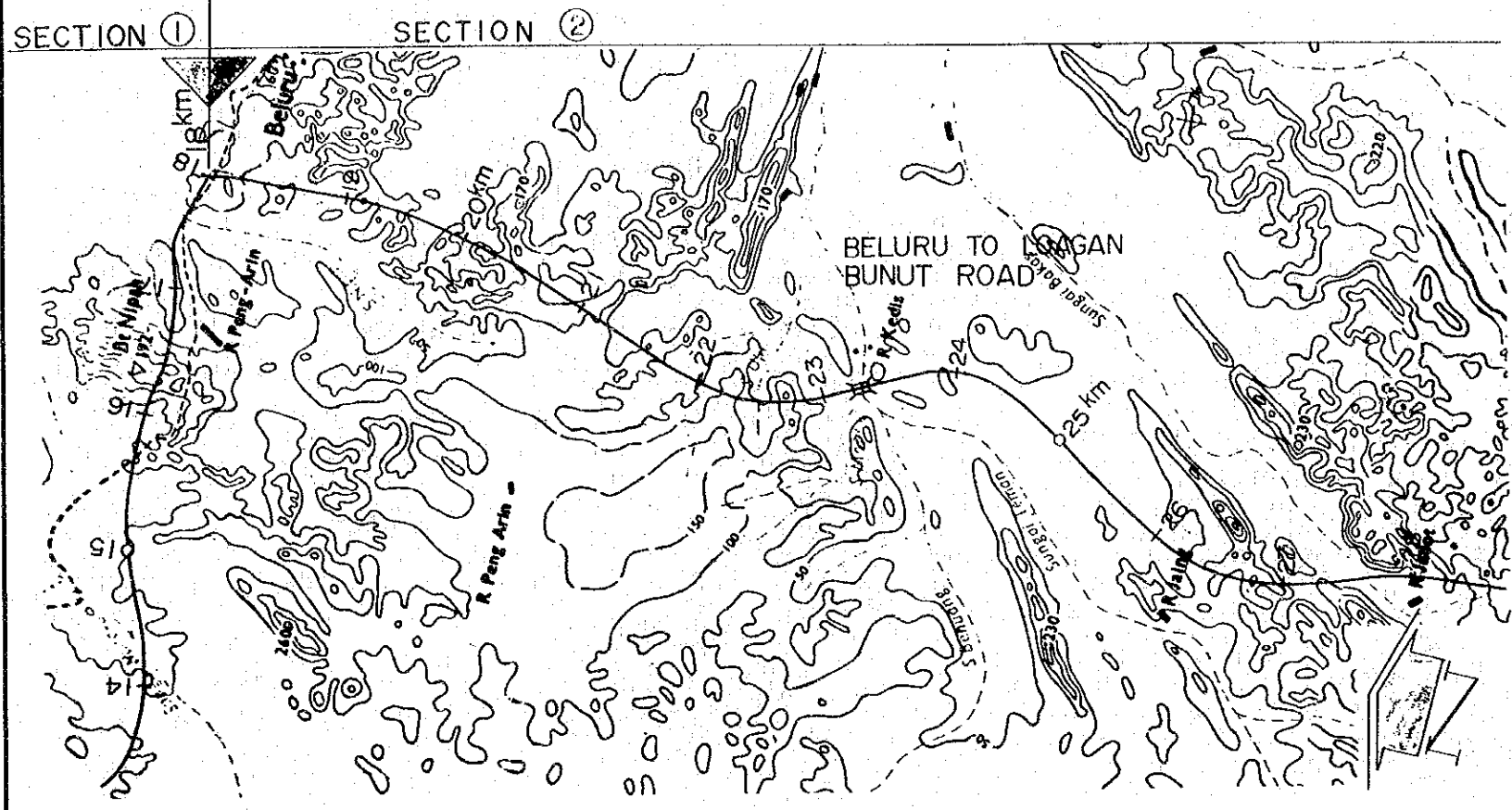
# PROFILE



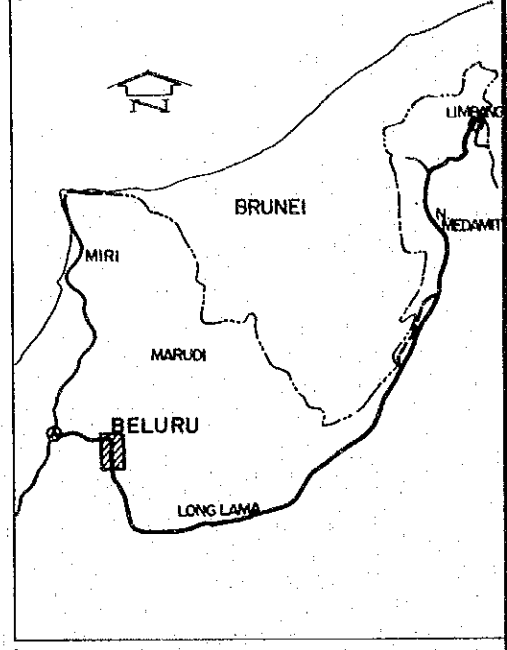
- HORIZONTAL ALIGNMENT**
- SCALE 1: 50,000
- : CENTER LINE
  - ⌈ : BRIDGE
- VERTICAL ALIGNMENT**
- HORIZONTAL SCALE 1: 50,000
- VERTICAL SCALE 1: 1,000
- ⌈ : BRIDGE
  - +1.0% : GRADIENT OF RECOMMENDED
  - ⌈ : EXISTING GROUND

<b>PROJECT</b>	<b>SHEET NO.</b>	<b>TOTAL SHEET</b>
BELURU / LONG LAMA / LIMBANG TRUNK ROAD CONSTRUCTION PROJECT	3	22
<b>PLAN AND PROFILE</b>	<b>SCALE</b>	H = 1 : 50,000 V = 1 : 1,000

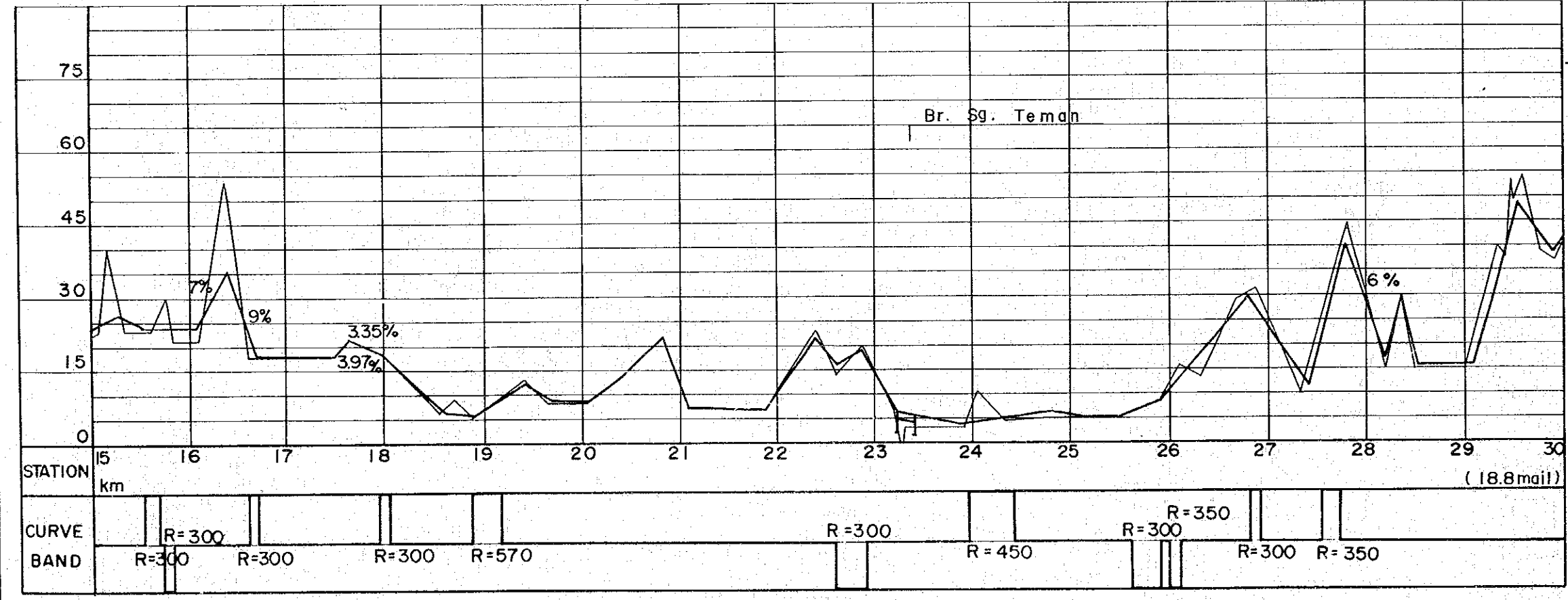
# PLAN



# KEY MAP



# PROFILE



# HORIZONTAL ALIGNMENT

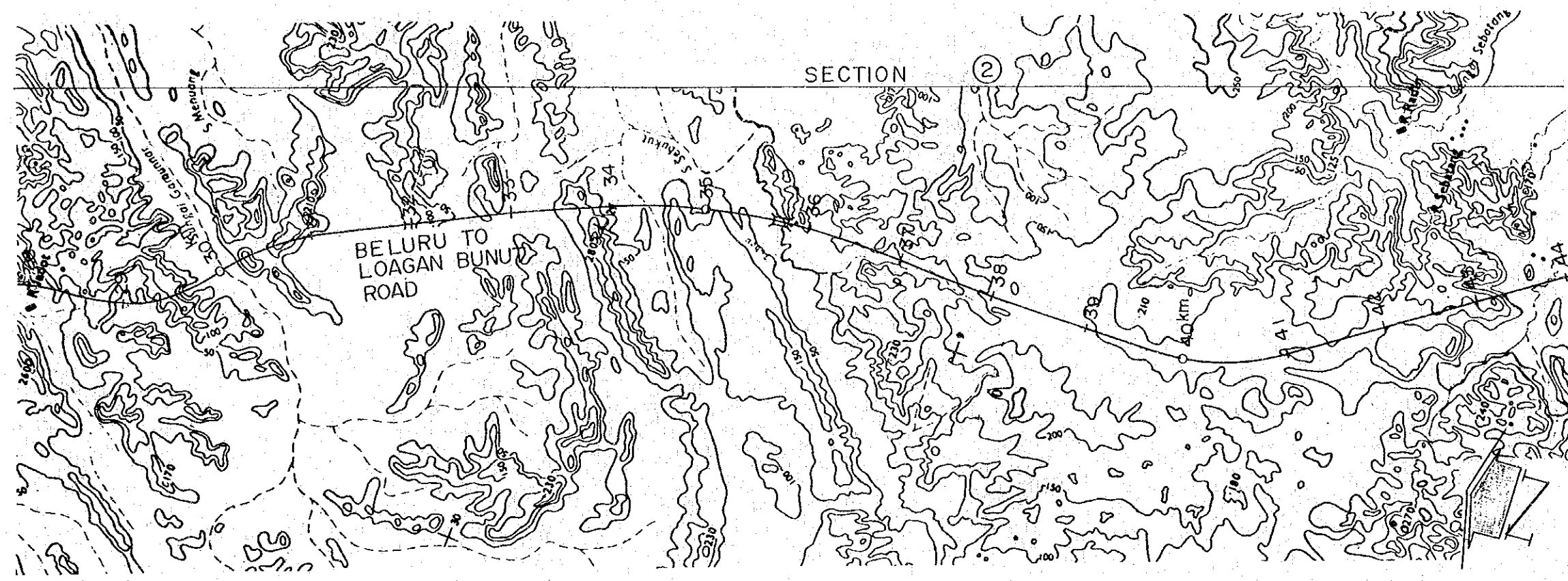
- SCALE 1 : 50,000
- : CENTER LINE
  - ≡ : BRIGE

# VERTICAL ALIGNMENT

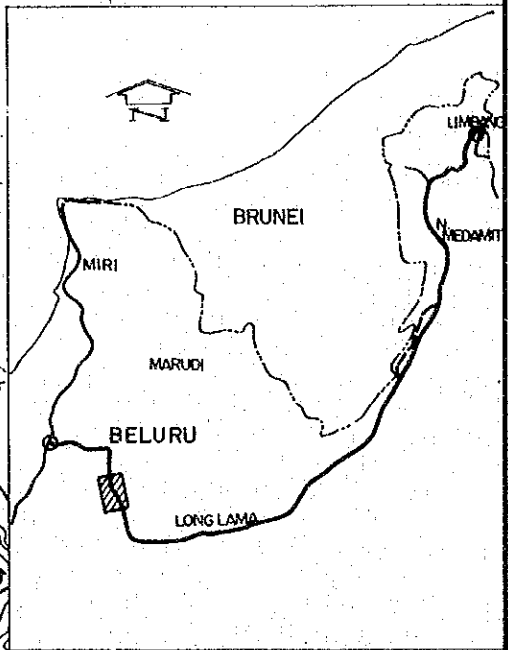
- HORIZONTAL SCALE 1 : 50,000  
VERTICAL SCALE 1 : 1,000
- ≡ : BRIGE
  - +1.0% : GRADIENT OF RECOMMENDED
  - ≡ : EXSTING GROUND

PROJECT BELURU / LONG LAMA / LIMBANG TRUNK ROAD CONSTRUCTION PROJECT	SHEET NO.	TOTAL SHEET
	4	22
PLAN AND PROFILE		SCALE H=1:50,000 V=1:1,000

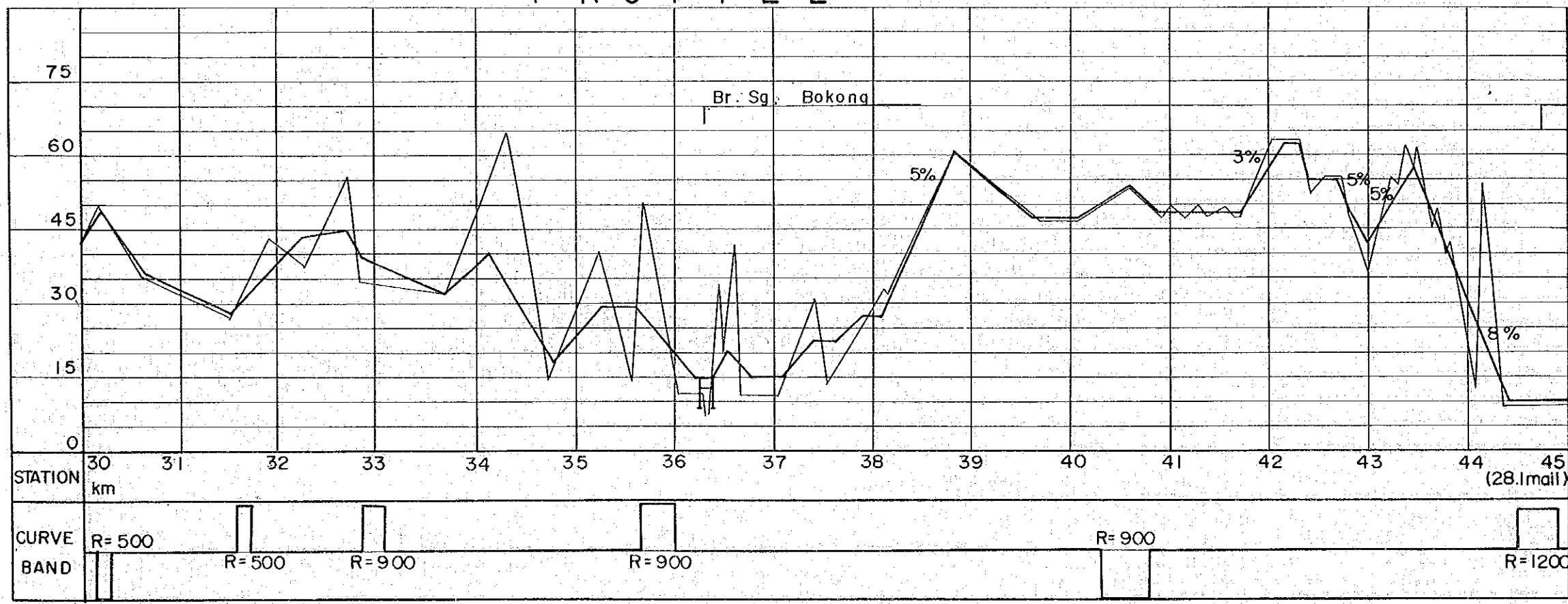
# PLAN



# KEY MAP



# PROFILE



# HORIZONTAL ALIGNMENT

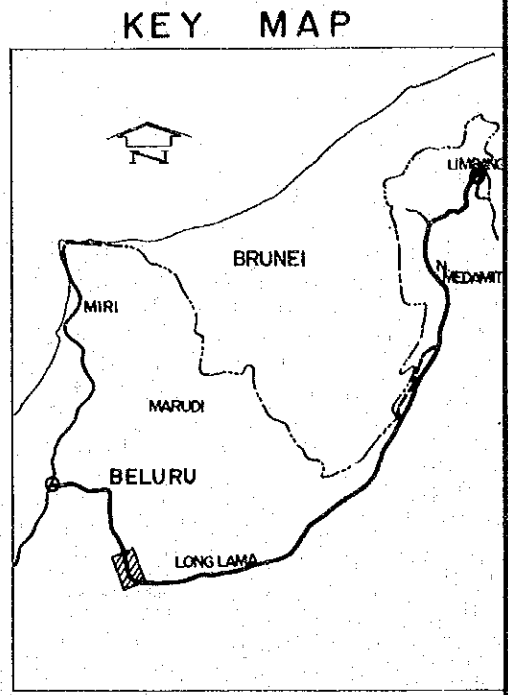
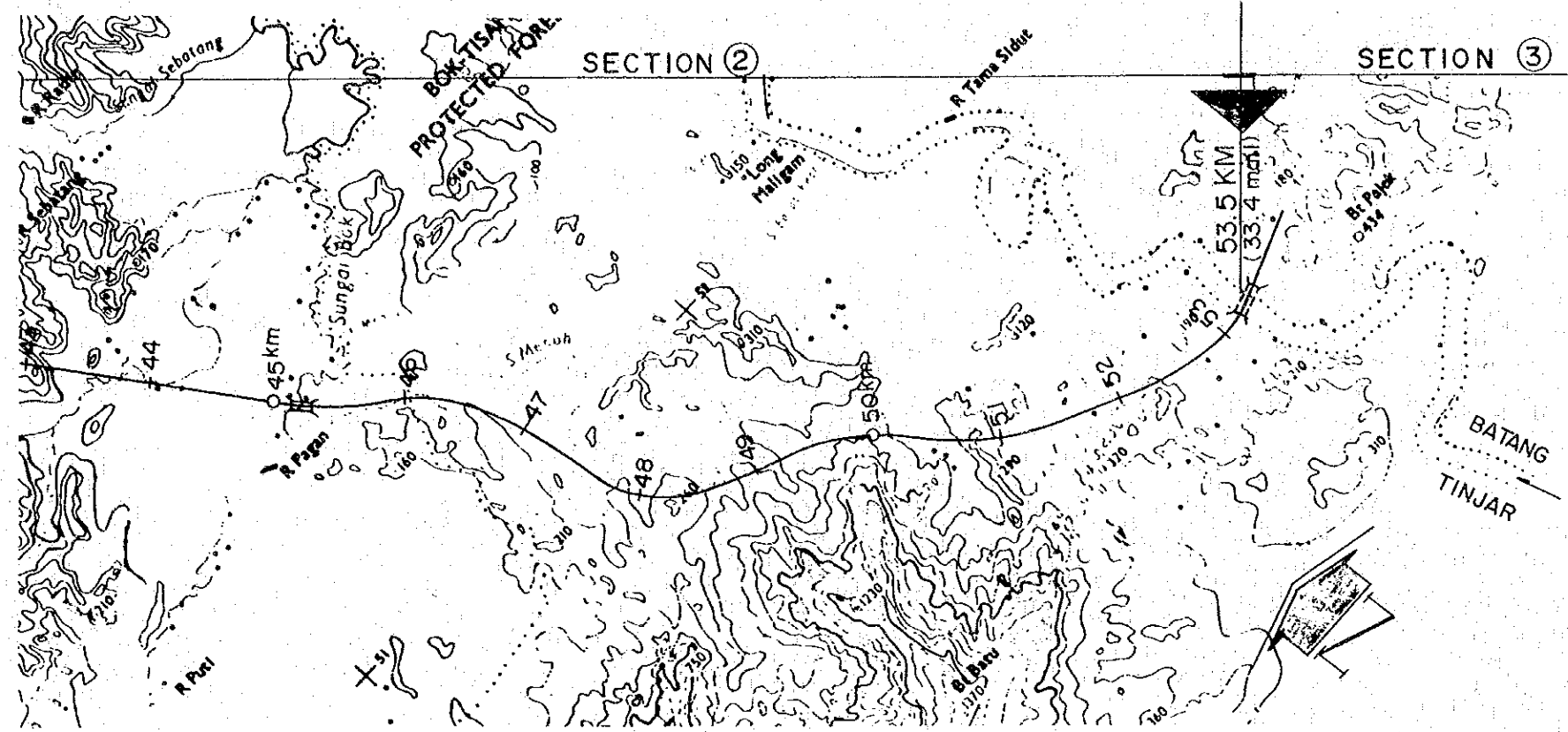
- SCALE 1:50,000
- : CENTER LINE
- ≡ : BRIDGE

# VERTICAL ALIGNMENT

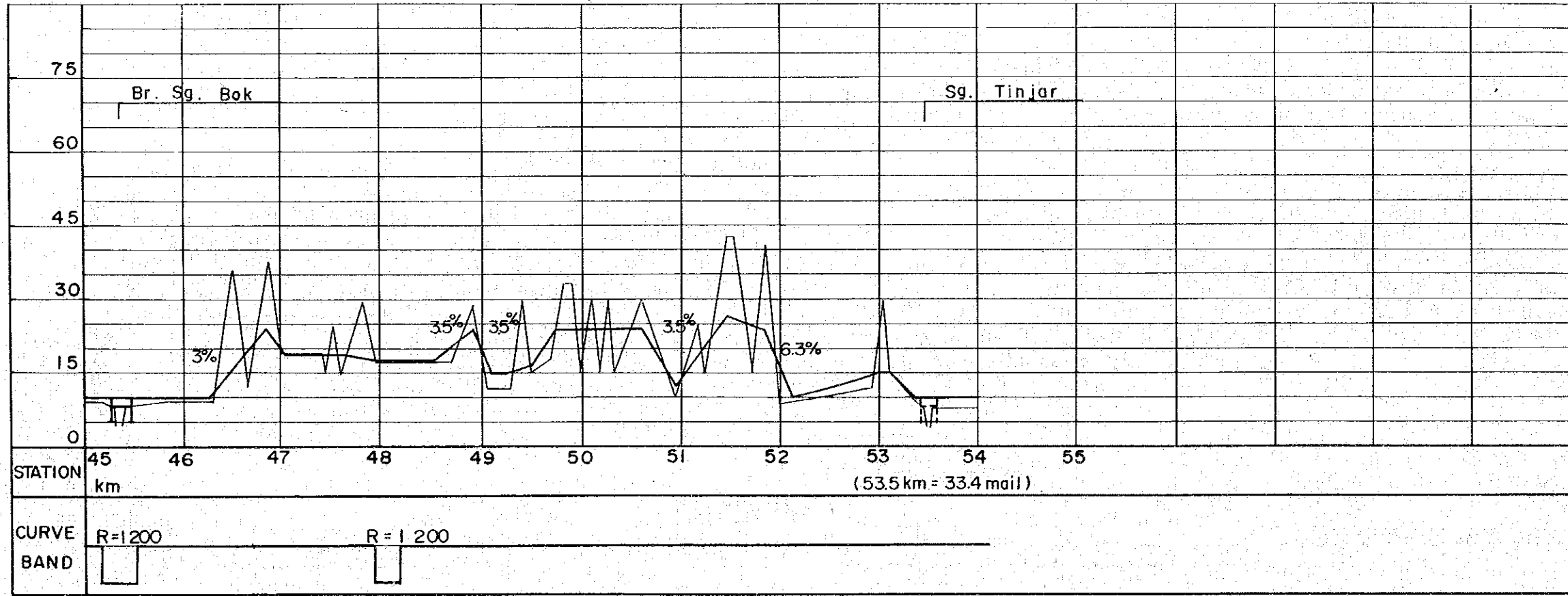
- HORIZONTAL SCALE 1:50,000
- VERTICAL SCALE 1:1,000
- ≡ : BRIDGE
- +1.0% : GRADIENT OF RECOMMENDED
- ≡ : EXISTING GROUND

<b>PROJECT</b>	<b>SHEET NO.</b>	<b>TOTAL SHEET</b>
BELURU / LONG LAMA / LIMBANG TRUNK ROAD CONSTRUCTION PROJECT	5	22
<b>PLAN AND PROFILE</b>	<b>SCALE</b>	H=1:50,000 V=1:1,000

# PLAN



# PROFILE



## HORIZONTAL ALIGNMENT

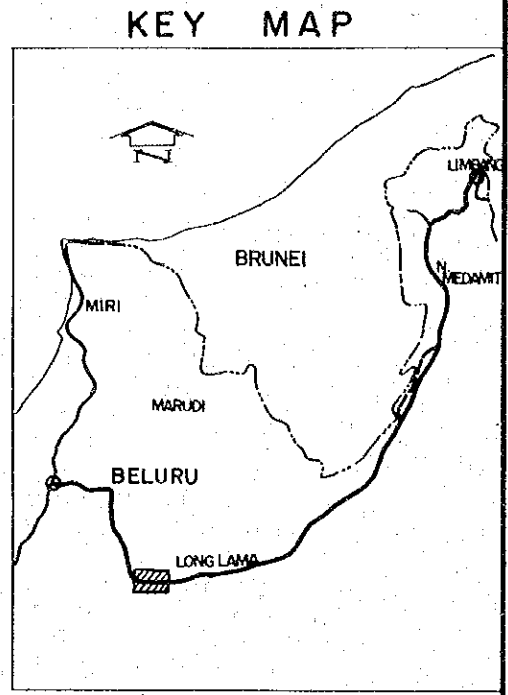
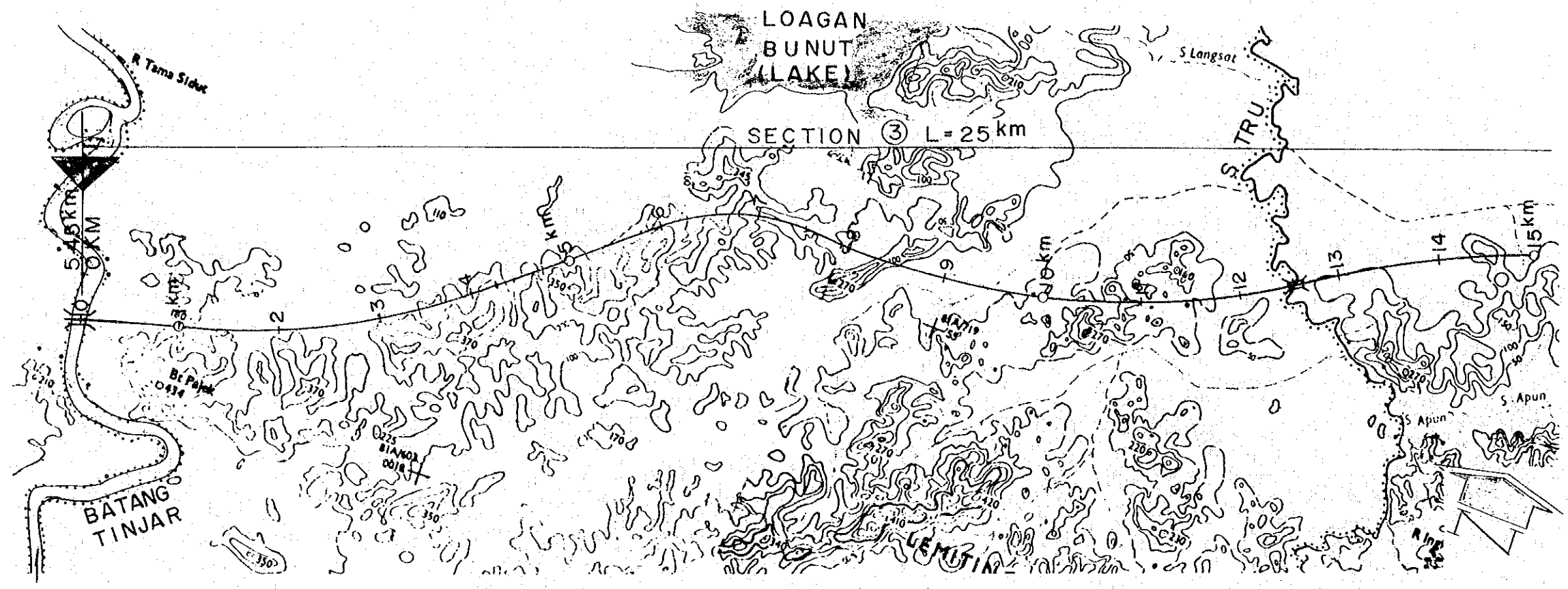
- SCALE 1: 50,000
- : CENTER LINE
- ⌈ : BRIDGE

## VERTICAL ALIGNMENT

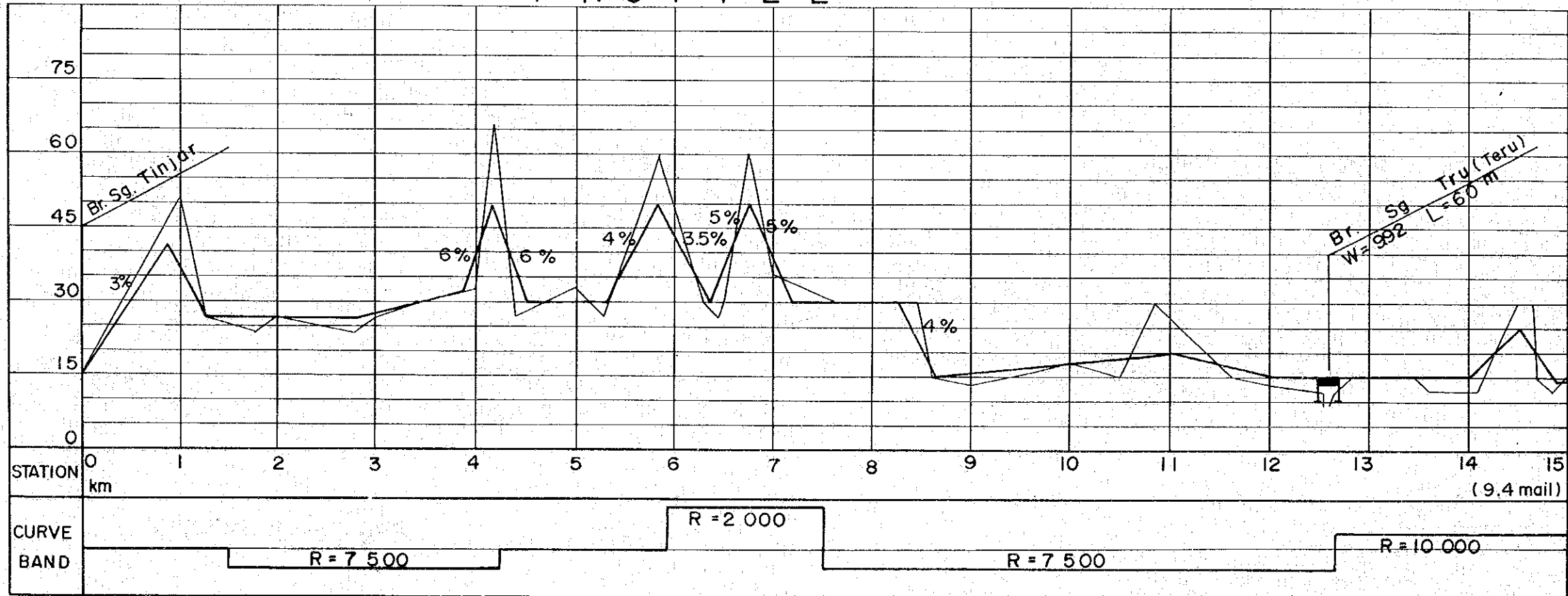
- HORIZONTAL SCALE 1: 50,000
- VERTICAL SCALE 1: 1,000
- ⌈ : BRIDGE
- +1.0% : GRADIENT OF RECOMMENDED
- ⌈ : EXISTING GROUND

<b>PROJECT</b>	<b>SHEET NO.</b>	<b>TOTAL SHEET</b>
BELURU / LONG LAMA / LIMBANG TRUNK ROAD CONSTRUCTION PROJECT	6	22
<b>PLAN AND PROFILE</b>	<b>SCALE</b>	H=1:50,000 V=1:1,000

# PLAN



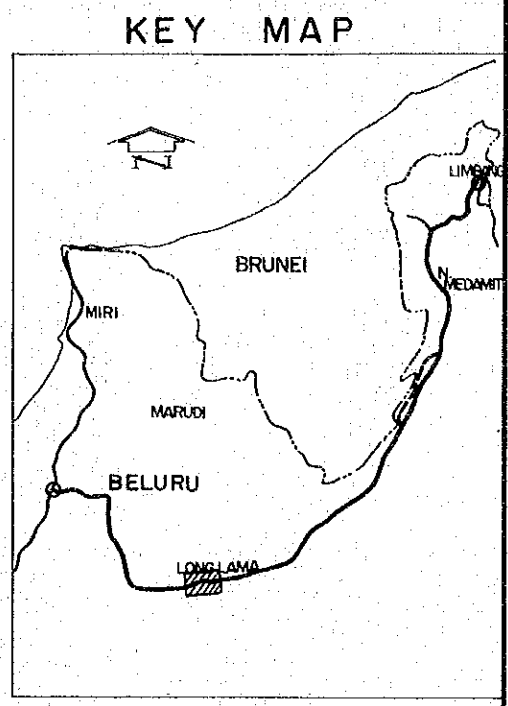
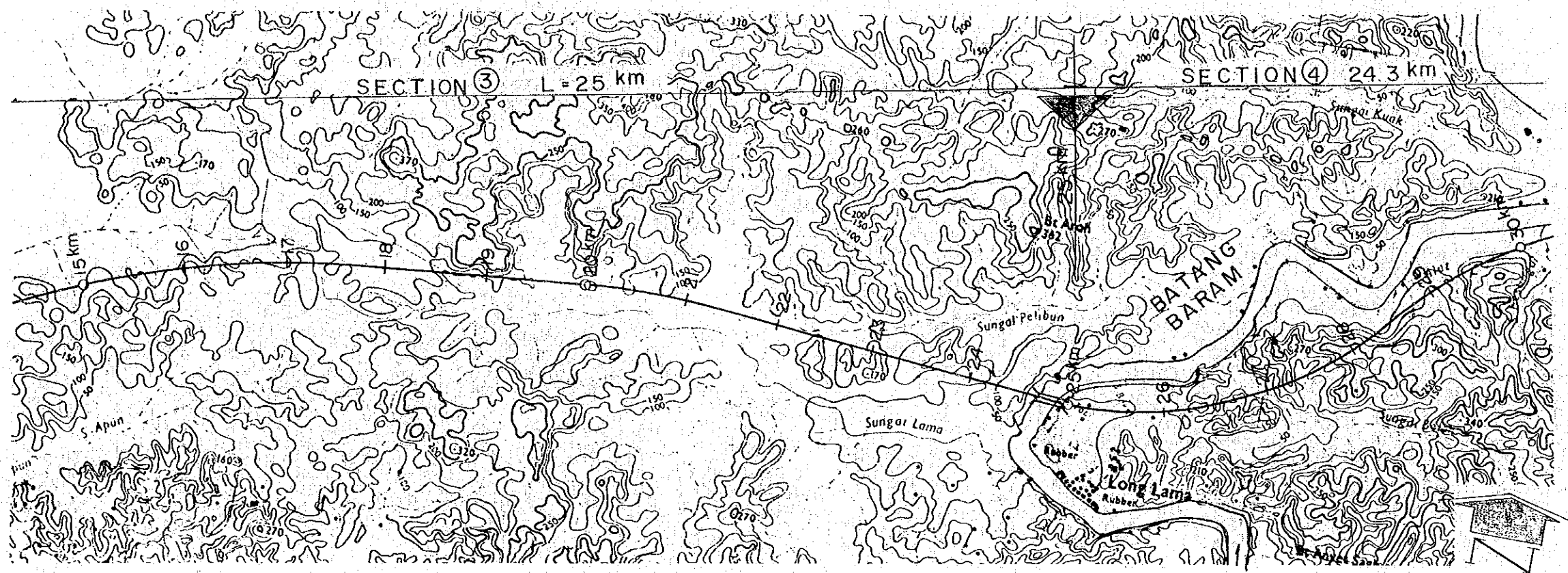
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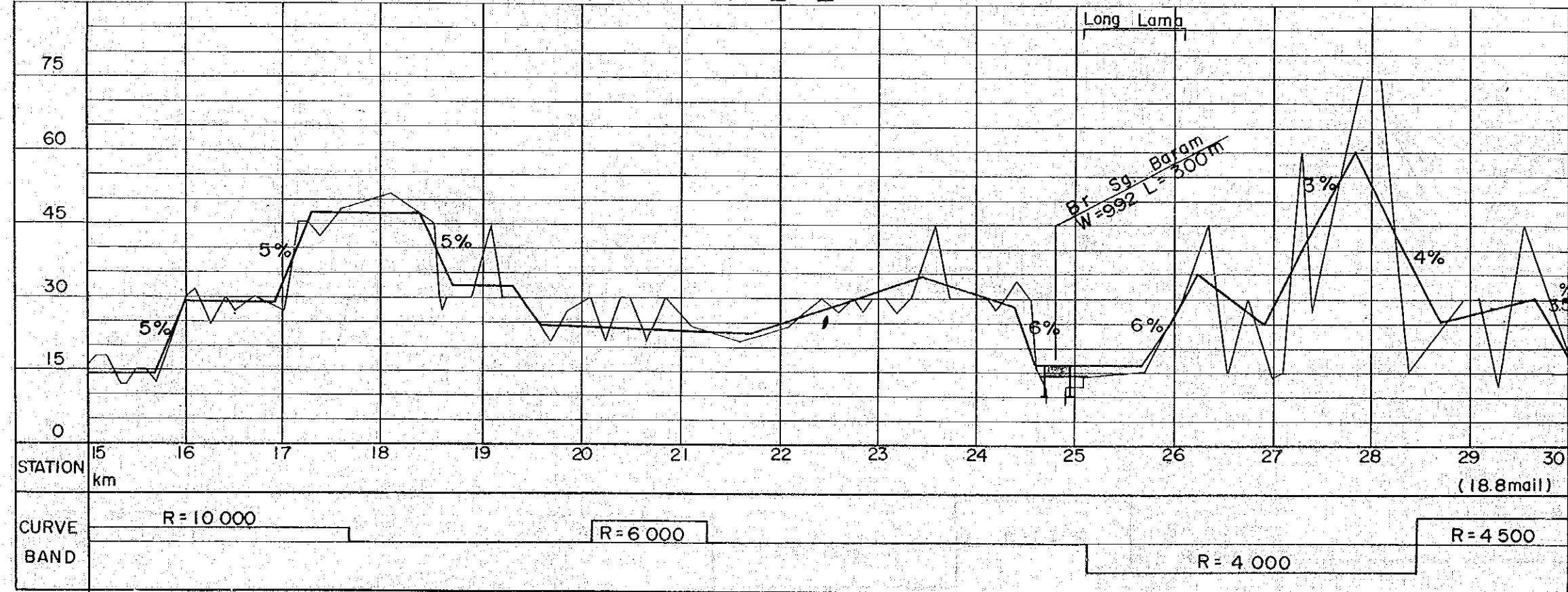
- HORIZONTAL ALIGNMENT**
- SCALE 1:50,000
- : CENTER LINE
  - ⌈ : BRIDGE
- VERTICAL ALIGNMENT**
- HORIZONTAL SCALE 1:50,000
- VERTICAL SCALE 1:1,000
- ⌈ : BRIDGE
  - +1.0% : GRADIENT OF RECOMMENDED
  - : EXISTING GROUND

PROJECT	SHEET NO.	TOTAL SHEET
BELURU / LONG LAMA / LIMBANG TRUNK ROAD CONSTRUCTION PROJECT	7	22
PLAN AND PROFILE	SCALE	H = 1 : 50,000 V = 1 : 1,000

# PLAN



# PROFILE

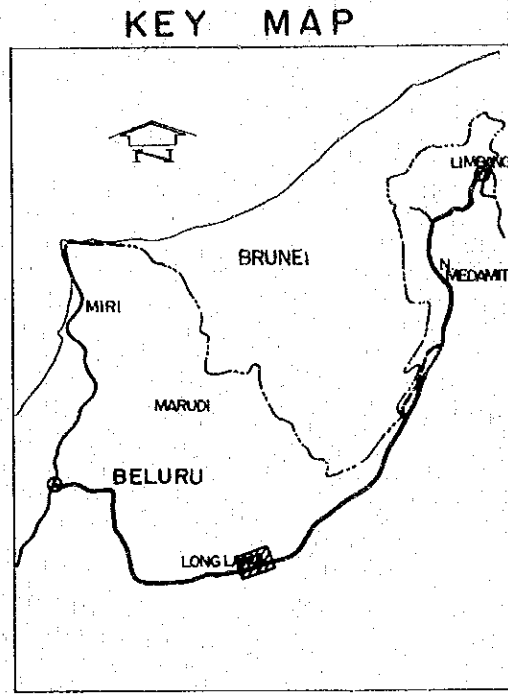
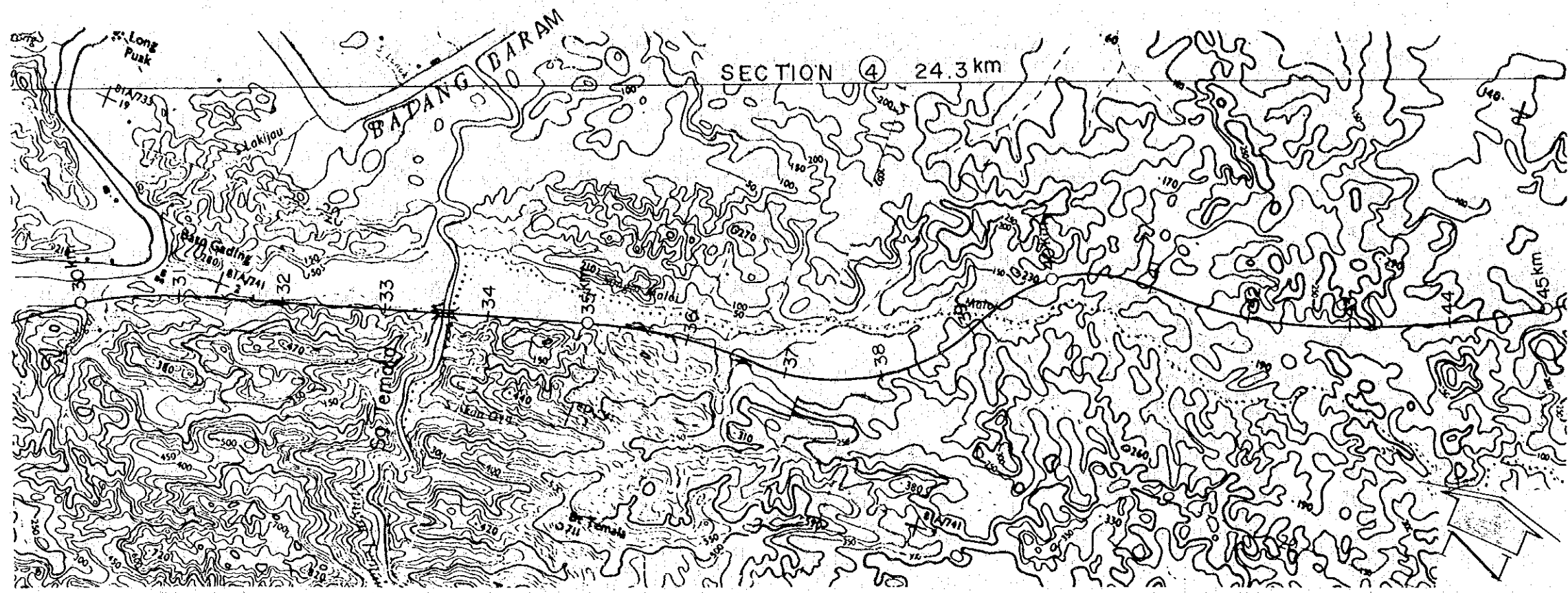


- HORIZONTAL ALIGNMENT**
- SCALE 1 : 50,000
- : CENTER LINE
  - ⌈ : BRIDGE
- VERTICAL ALIGNMENT**
- HORIZONTAL SCALE 1 : 50,000
- VERTICAL SCALE 1 : 1,000
- ⌈ : BRIDGE
  - +1.0% : GRADIENT OF RECOMMENDED
  - ⌈ : EXISTING GROUND

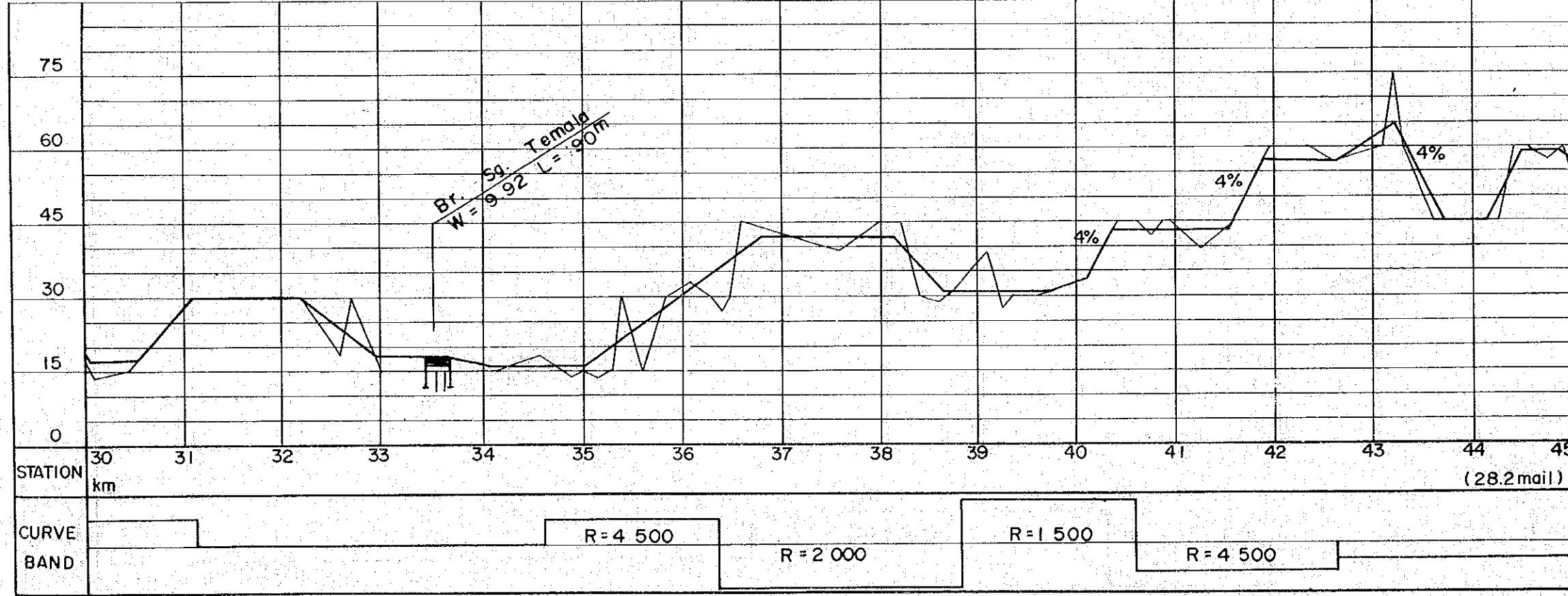


<b>PROJECT</b>	<b>SHEET NO.</b>	<b>TOTAL SHEET</b>
BELURU / LONG LAMA / LIMBANG TRUNK ROAD CONSTRUCTION PROJECT	8	22
<b>PLAN AND PROFILE</b>	<b>SCALE</b>	H = 1 : 50,000 V = 1 : 1,000

# PLAN



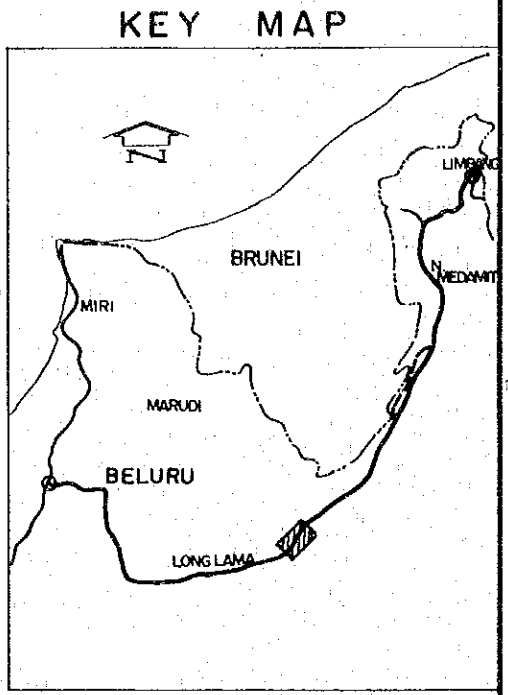
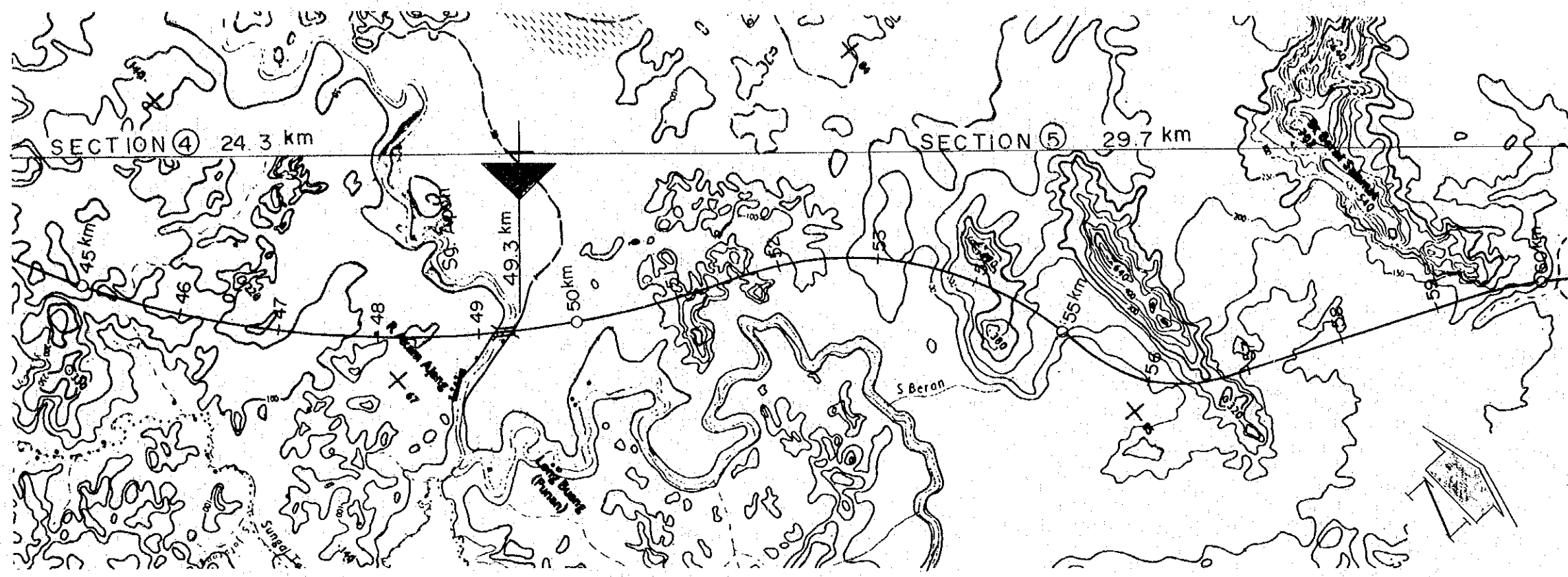
# PROFILE



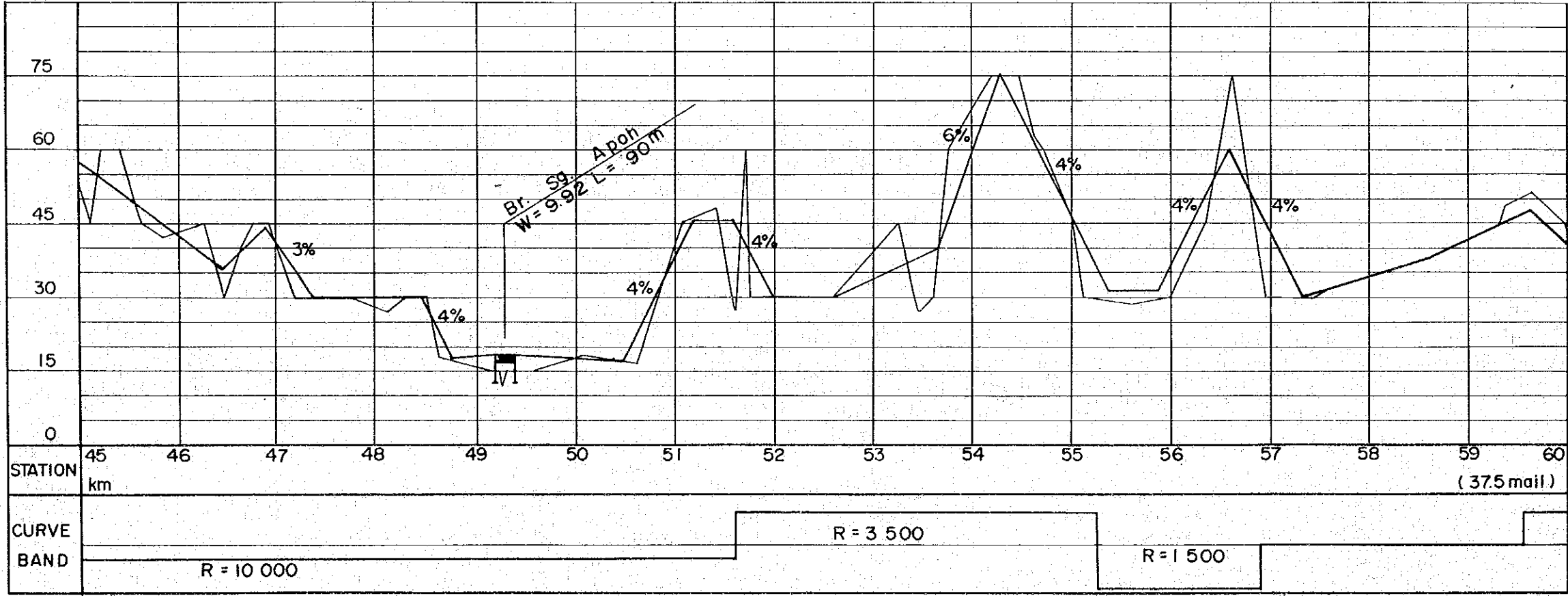
- HORIZONTAL ALIGNMENT**
- SCALE 1 : 50,000
- : CENTER LINE
  - ≡ : BRIDGE
- VERTICAL ALIGNMENT**
- HORIZONTAL SCALE 1 : 50,000
- VERTICAL SCALE 1 : 1,000
- ≡ : BRIDGE
  - +1.0% : GRADIENT OF RECOMMENDED
  - : EXISTING GROUND

PROJECT	SHEET NO.	TOTAL SHEET
BELURU / LONG LAMA / LIMBANG TRUNK ROAD CONSTRUCTION PROJECT	9	22
PLAN AND PROFILE	SCALE	H = 1 : 50,000 V = 1 : 1,000

# PLAN



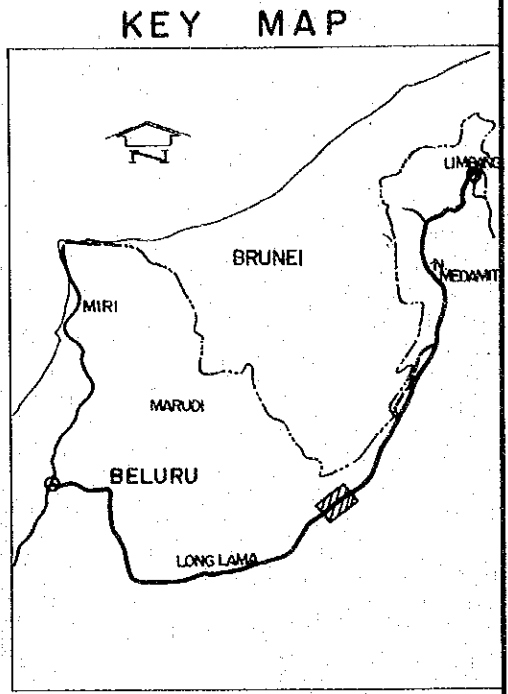
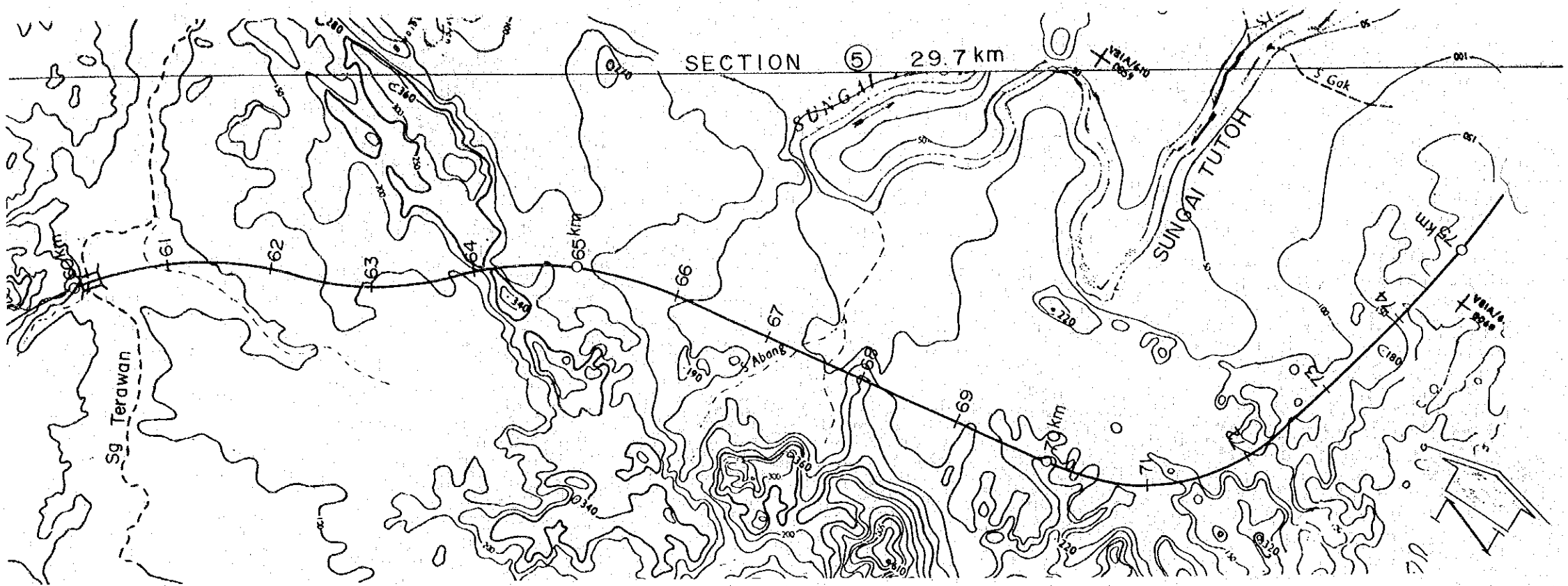
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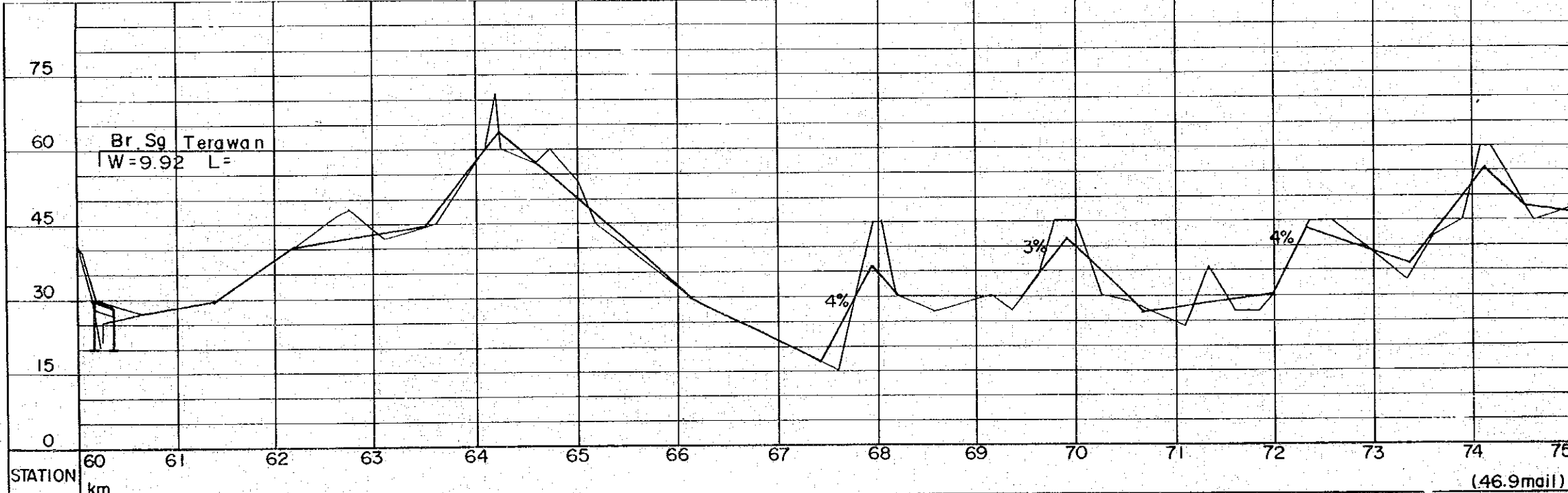
- HORIZONTAL ALIGNMENT**  
SCALE 1 : 50,000
- : CENTER LINE
  - ⌈ : BRIGE
- VERTICAL ALIGNMENT**  
HORIZONTAL SCALE 1 : 50,000  
VERTICAL SCALE 1 : 1,000
- ⌈ : BRIGE
  - +1.0% : GRADIENT OF RECOMMENDED
  - ⌈ : EXSTING GROUND

PROJECT	SHEET NO.	TOTAL SHEET
BELURU / LONG LAMA / LIMBANG TRUNK ROAD CONSTRUCTION PROJECT	10	22
PLAN AND PROFILE	SCALE	H = 1 : 50,000 V = 1 : 1,000

# PLAN



# PROFILE

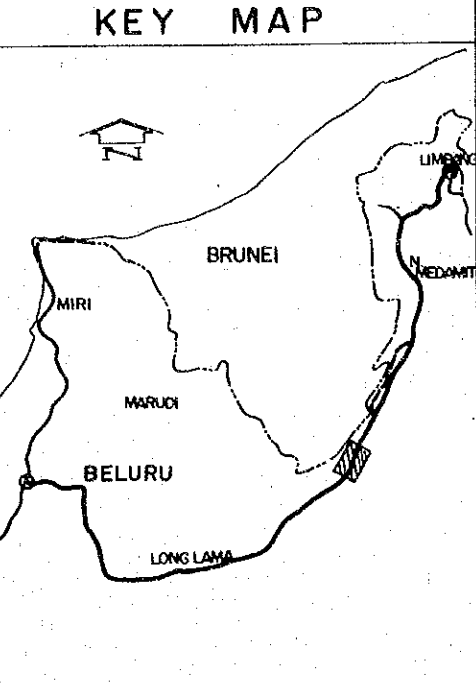
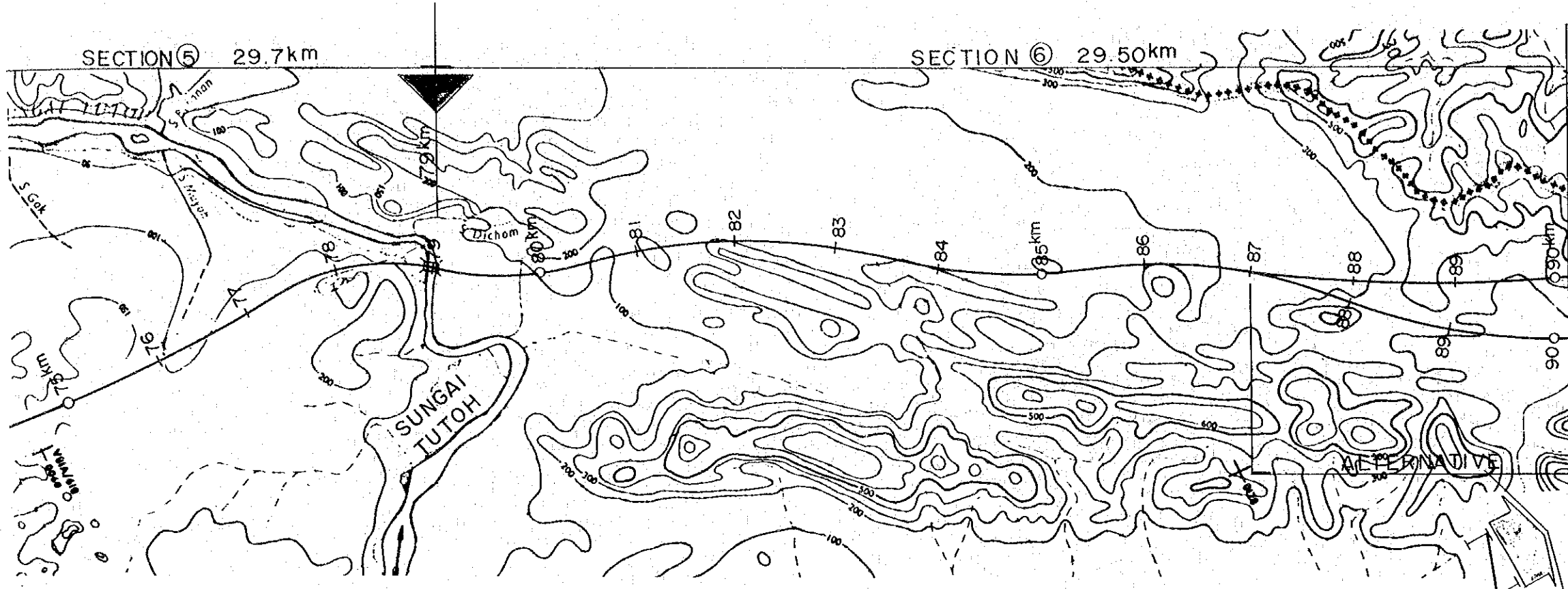


- HORIZONTAL ALIGNMENT**
- SCALE 1 : 50,000
- : CENTER LINE
  - ≡ : BRIDGE
- VERTICAL ALIGNMENT**
- HORIZONTAL SCALE 1 : 50,000
- VERTICAL SCALE 1 : 1,000
- ≡ : BRIDGE
  - +1.0% : GRADIENT OF RECOMMENDED
  - : EXISTING GROUND

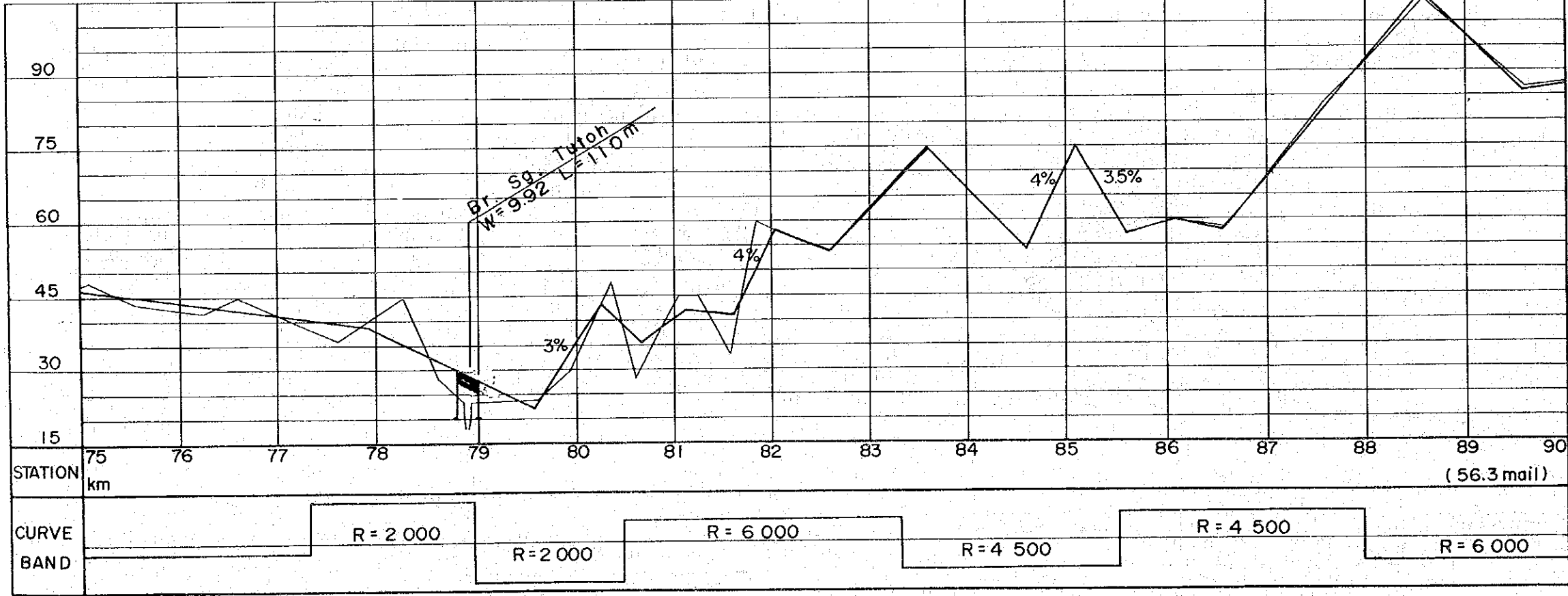
STATION	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
	(46.9 miles)															
CURVE BAND	R = 3 500			R = 2 500			R = 3 500			R = 2 000			R = 2 000			

<b>PROJECT</b> BELURU / LONG LAMA / LIMBANG TRUNK ROAD CONSTRUCTION PROJECT	<b>SHEET NO.</b> 11	<b>TOTAL SHEET</b> 22
<b>PLAN AND PROFILE</b>	<b>SCALE</b> H = 1 : 50,000 V = 1 : 1,000	

**P L A N**



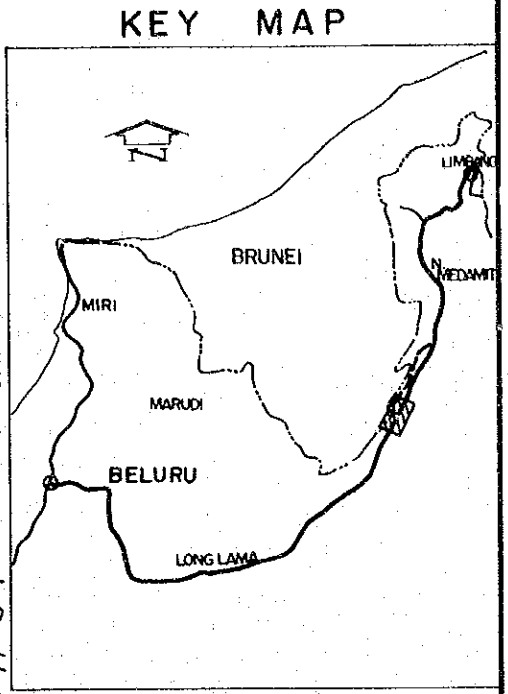
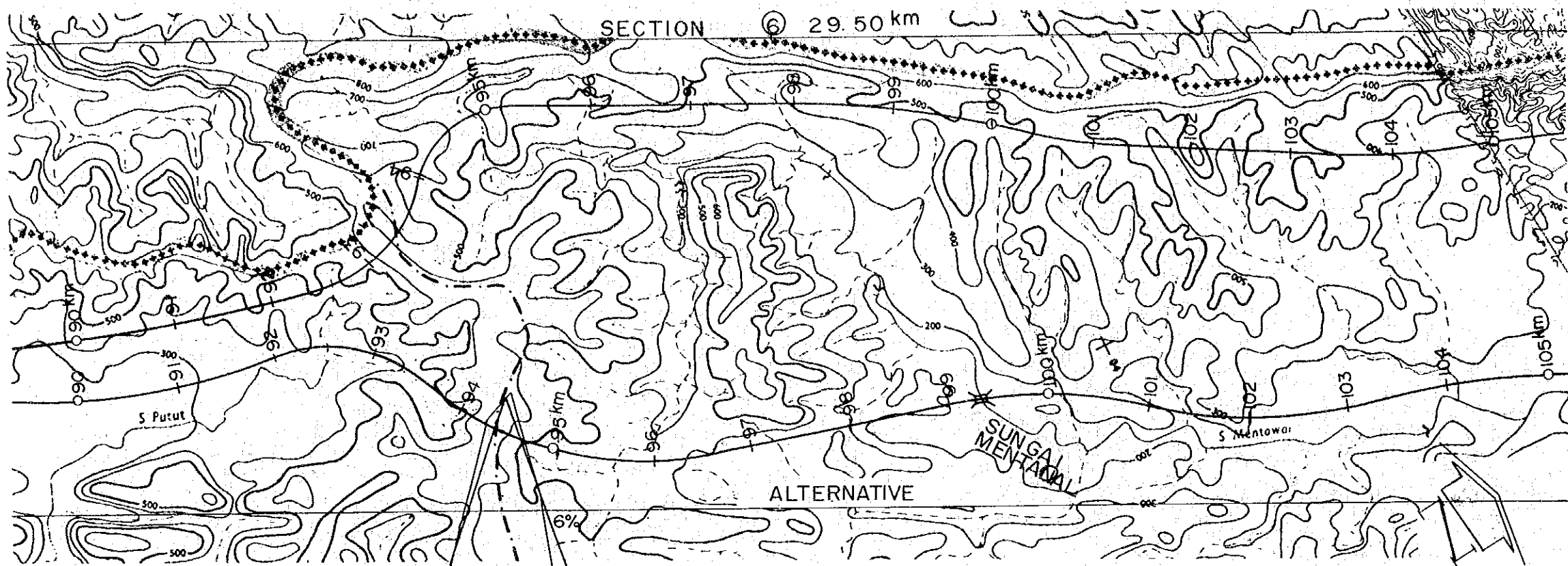
**P R O F I L E**



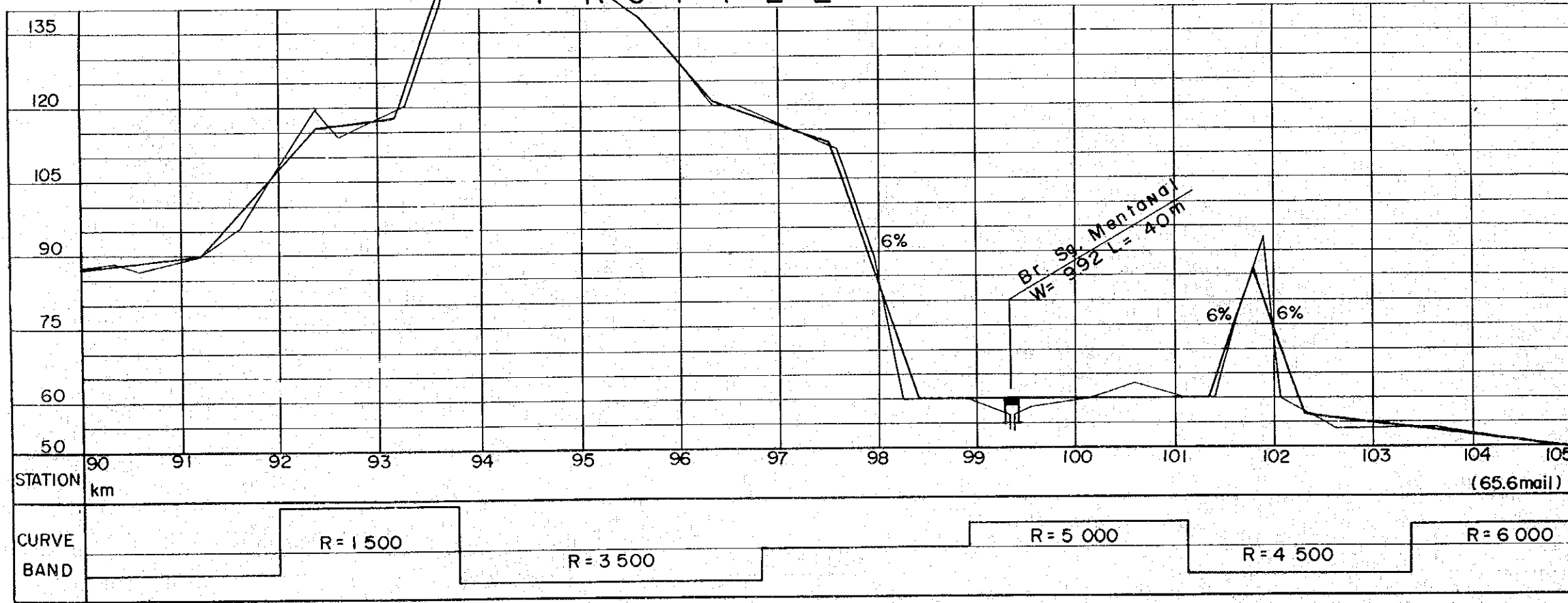
- HORIZONTAL ALIGNMENT**  
SCALE 1 : 50,000
- : CENTER LINE
  - ⌈ : BRIDGE
- VERTICAL ALIGNMENT**  
HORIZONTAL SCALE 1 : 50,000  
VERTICAL SCALE 1 : 1,000
- ⌈ : BRIDGE
  - +1.0% : GRADIENT OF RECOMMENDED
  - : EXISTING GROUND
  - XXXX : INTERNATIONAL BOUNDARY

PROJECT BELURU / LONG LAMA / LIMBANG TRUNK ROAD CONSTRUCTION PROJECT	SHEET NO.	TOTAL SHEET
	12	22
PLAN AND PROFILE		SCALE H=1:50,000 V=1:1,000

# PLAN



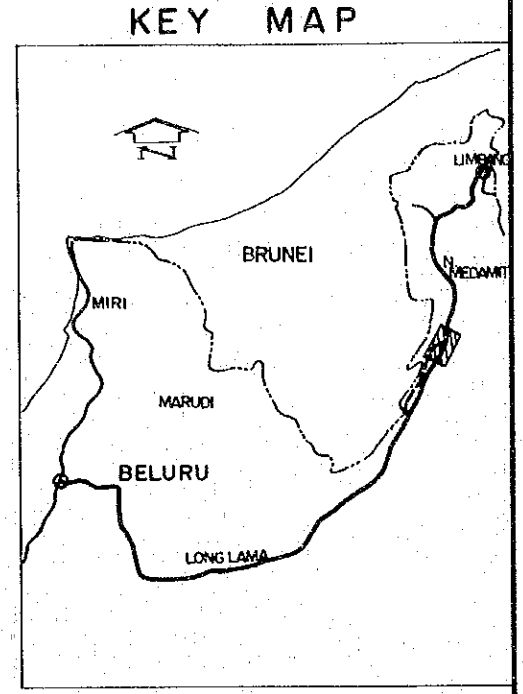
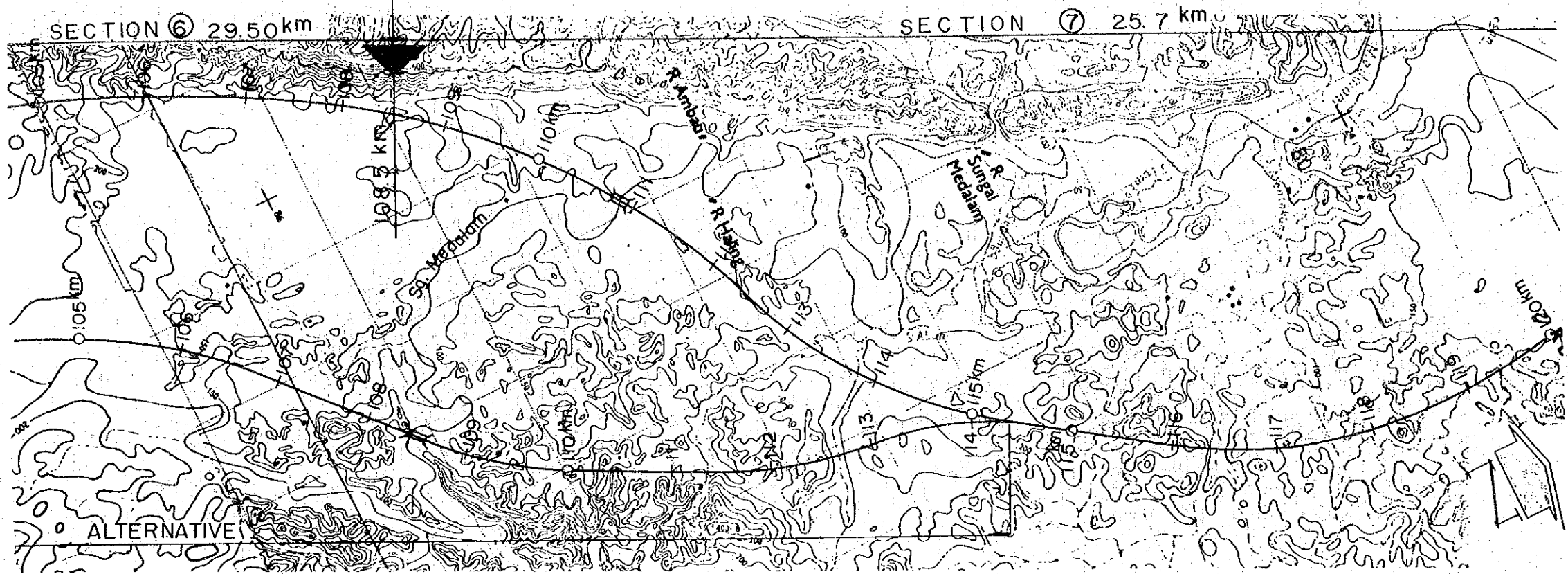
# PROFILE



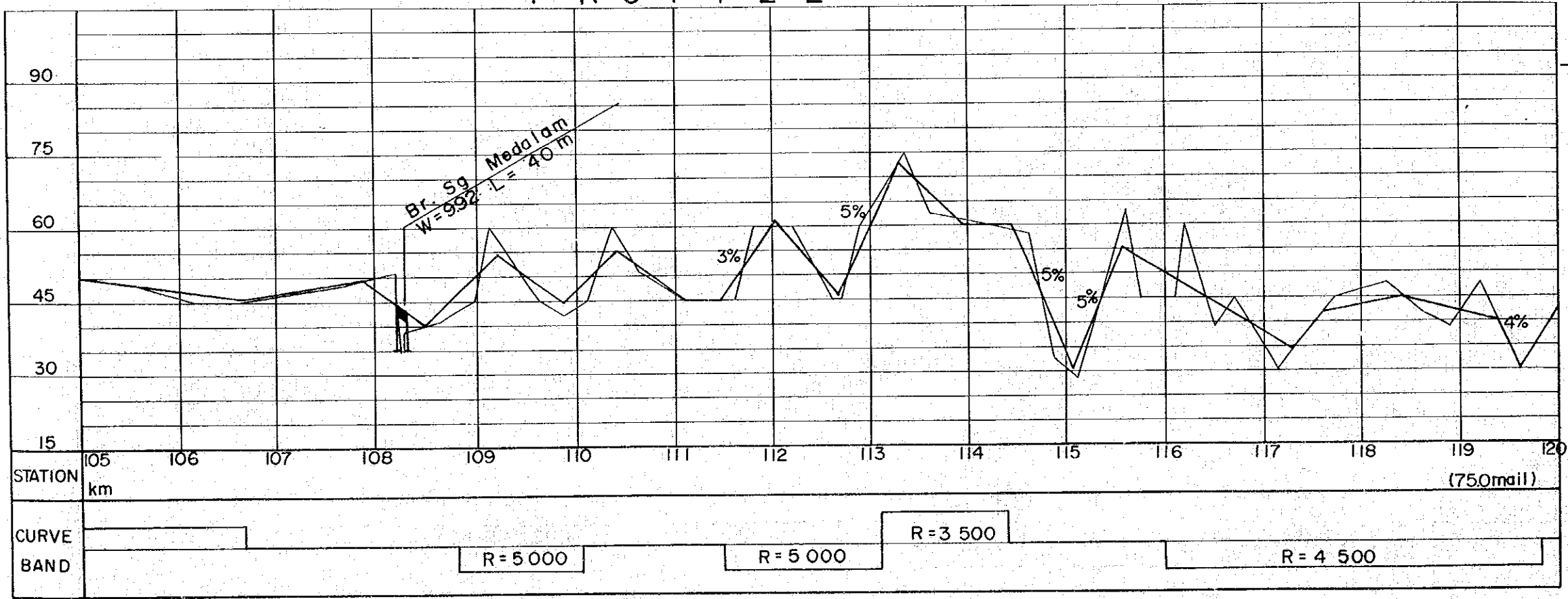
- ### HORIZONTAL ALIGNMENT
- SCALE 1:50,000
- : CENTER LINE
  - ≡ : BRIGE
- ### VERTICAL ALIGNMENT
- HORIZONTAL SCALE 1:50,000  
VERTICAL SCALE 1:1,000
- ▭ : BRIGE
  - +1.0% : GRADIENT OF RECOMMENDED
  - ▬ : EXSTING GROUND
  - xxxx : INTERNATIONAL BOUNDARY

PROJECT	SHEET NO.	TOTAL SHEET
BELURU / LONG LAMA / LIMBANG TRUNK ROAD CONSTRUCTION PROJECT	13	22
PLAN AND PROFILE	SCALE	H = 1: 50,000 V = 1: 1,000

# PLAN



# PROFILE



- HORIZONTAL ALIGNMENT**
- SCALE 1: 50,000
- : CENTER LINE
  - ≡ : BRIDGE
- VERTICAL ALIGNMENT**
- HORIZONTAL SCALE 1: 50,000
- VERTICAL SCALE 1: 1,000
- ≡ : BRIDGE
  - +1.0% : GRADIENT OF RECOMMENDED
  - ≡ : EXISTING GROUND