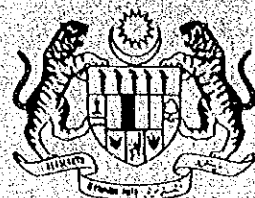


MALAYSIA

社会開発調査部

No. 2



GOVERNMENT OF MALAYSIA

THE FEASIBILITY STUDY ON
TRANSPORTATION FACILITIES PROJECTS
IN KLANG VALLEY

FINAL REPORT

HIGHWAY PROJECT

DRAWINGS

JUNE 1989

JAPAN INTERNATIONAL COOPERATION AGENCY

THE FEASIBILITY STUDY ON TRANSPORTATION
FACILITIES PROJECTS IN KLANG VALLEY

FINAL REPORT

HIGHWAY PROJECT

DRAWINGS

JUNE 1989

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89-071(7/9)

SDF

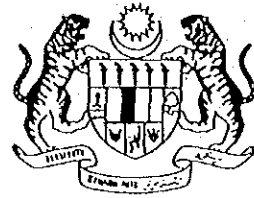
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GOVERNMENT OF MALAYSIA

**THE FEASIBILITY STUDY ON
TRANSPORTATION FACILITIES PROJECTS
IN KLANG VALLEY**

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JUNE 1989

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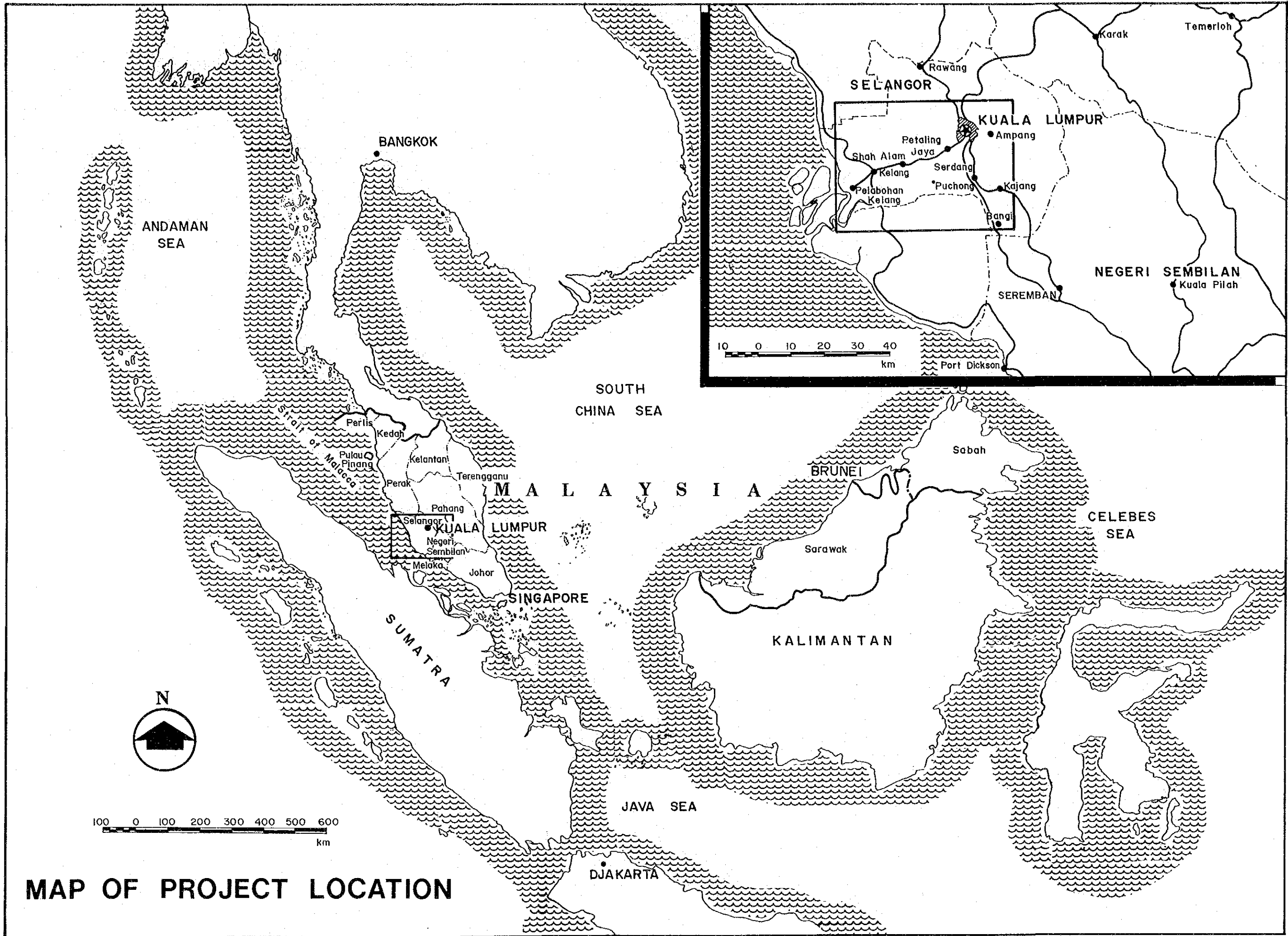
国際協力事業団

19722

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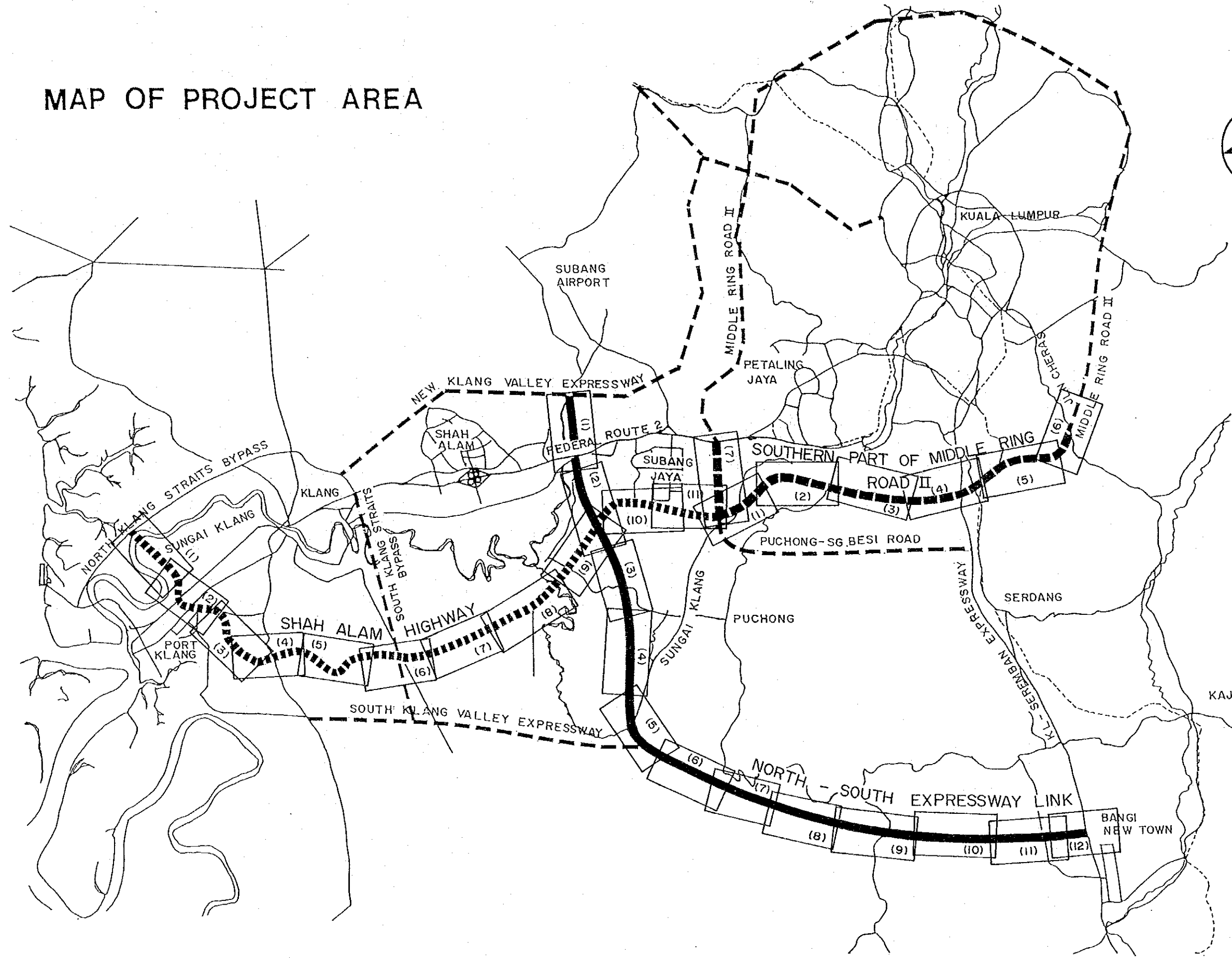
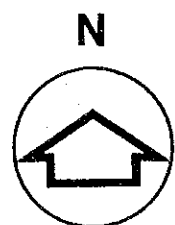
1.0 MAP OF PROJECT LOCATION



MAP OF PROJECT LOCATION

2.0 MAP OF PROJECT AREA

MAP OF PROJECT AREA



SCALE
0 1 2 5 10 km

3.0 LEGEND

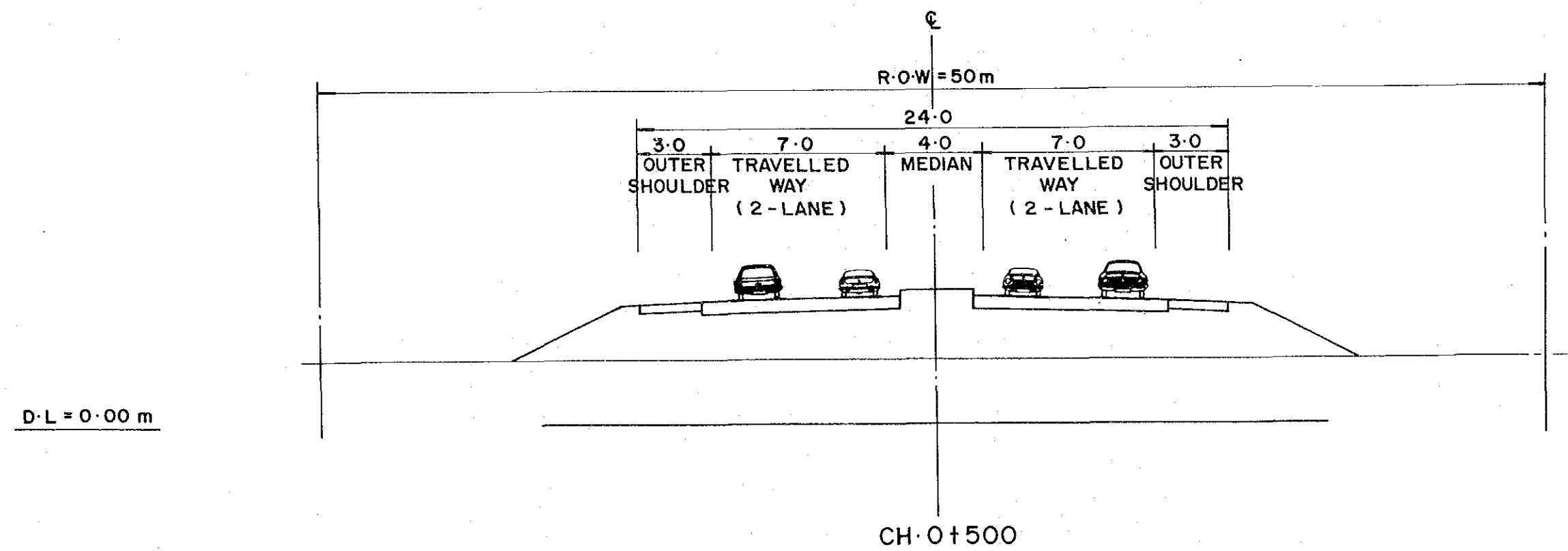
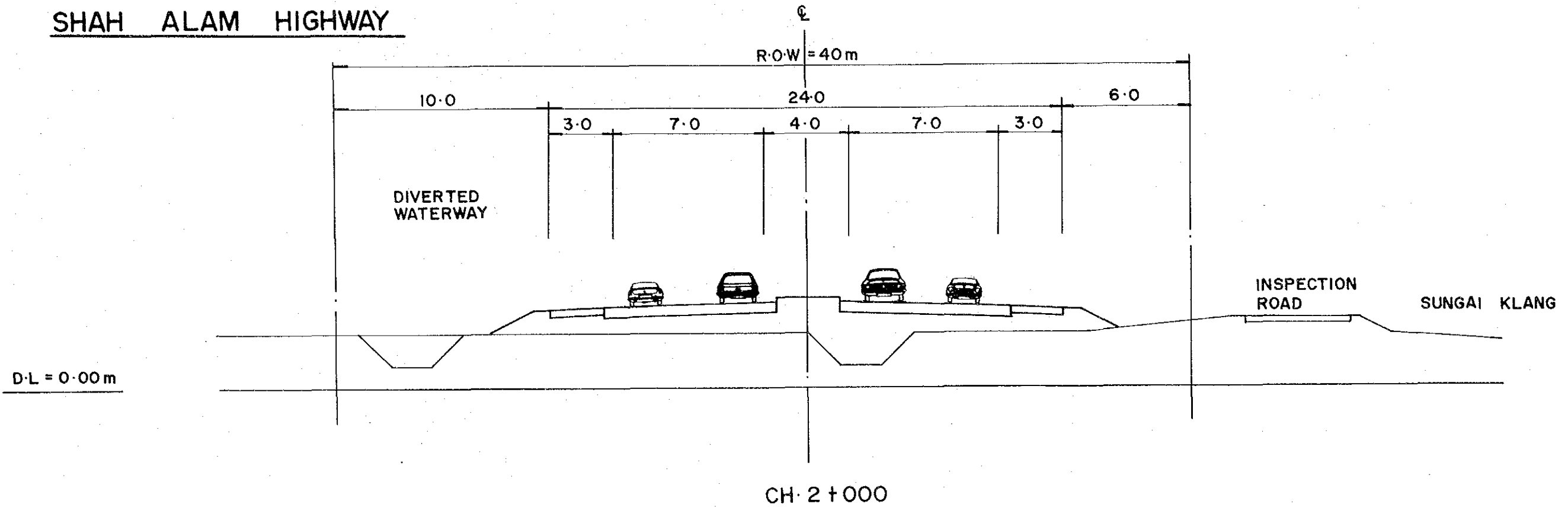
Control Station	Horizontal	△ 389.9
	Bench Mark	□ 39.38
	Spot Height	· 5.8
Boundaries	Provincial	-----
	Municipal	-----
	Vegetation Limits	-----
Road / Railway	More than 2.0m in Width	———/———
	Sidewalk	———
	Under Construction	———
	More than 1.0m to 2.0m in Width	———
	Footpath	———
	National Railway	———
Bridges	Bridge	———
	Foot Bridge	———
Tunnels	Overpass / Underpass	———
	Culvert	———
Buildings	Permanent Building	□
	Post Office	□ PO
	Police Station	□ PS
	Hospital	□ HOSP
	School	□
	Cemetery / Park	□ Cem. □ Park
River and Streams	River / Direction of Flow	———
	Single Line	———
	Weir	———
	Lake · Pond / Coast Line	○ P

Vegetations	Cleared Land	———	
	Scrub	~ ~	
	Mangrove	⊕ ⊕	
	Rubber	⊙ ⊙	
	Coconut	↑ ↑	
	Oil Palm	† †	
	Nipah	———	
	Coffee	⌈ ⌈	
	Cocoa	○ ○	
	Tea	△ △	
	Pineapple	⌘ ⌘	
	Orchard	⊖ ⊖	
	Agricultural Land	∇ ∇	
	Grass	———	
	Swamp	———	
Associated / Miscellaneous Features	Sand	———	
	Cutting	———	
	Embankment	———	
	Cliff	———	
	Bare Rock	———	
	Depression	———	
	Power Transmission Line	———	
	Wall · Fence	———	
	Pipeline · Water Pipeline	———	
	Concrete Revetment	———	
	Well	· Well	
	Water Tank	○ W.T.	
	Contours	Contours (interval 5m)	———
		Supplementary	———

- CH : CHAINAGE
DL : DATUM LINE
DRBL : DESIGN RIVER BED LEVEL
DRG : DRAWING
FO : FLYOVER
FR : FRONTAGE ROAD
HWL : DESIGN HIGH WATER LEVEL
IC : INTERCHANGE
JLN : JALAN
LRT : LIGHT RAIL TRANSIT
LLN : LEMBAGA LETRIK NEGARA
MRR-II : MIDDLE RING ROAD II
N-S LINK : NORTH-SOUTH LINK
PC PILE : PRE-STRESSED CONCRETE PILE
R.O.W : RIGHT OF WAY
RC PILE : REINFORCED CONCRETE PILE
SG : SUNGAI
VCL : VERTICAL CURVE LENGTH (M)
VD : VIADUCT
- Br : BRIDGE
PCT : PRE-STRESSED CONCRETE INVERTED T-SHAPED BEAM TYPE
PCI : PRE-STRESSED CONCRETE I-SHAPED BEAM TYPE
PCH : PRE-STRESSED CONCRETE HOLLOW SLAB TYPE
- C : CONTINUOUS STRUCTURE
——— S : SIMPLE STRUCTURE
- 15-C, 4-S, etc. : SPAN NOS.
②0, ①9.815, etc. : EQUIVALENT SPAN LENGTH (M)
10+20+10, 12.5+20+20+12.5, etc. : SPAN LENGTH (M)
- RW : RETAINING WALL
H : HEIGHT (M)
L : LENGTH (M)
(L) : LEFT HAND SIDE
(R) : RIGHT HAND SIDE
(BS) : BOTH SIDES
- Bx.Cul : REINFORCED CONCRETE BOX CULVERT
——— : WIDTH x HEIGHT (M)
2x2-40, 3x3-40, etc. : LENGTH (M)
- : BRIDGE / VIADUCT
..... : BOX CULVERT

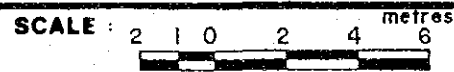
4.0 TYPICAL CROSS SECTIONS

SHAH ALAM HIGHWAY



HIGHWAY PROJECT

SHAH ALAM HIGHWAY : TYPICAL CROSS SECTION (1)

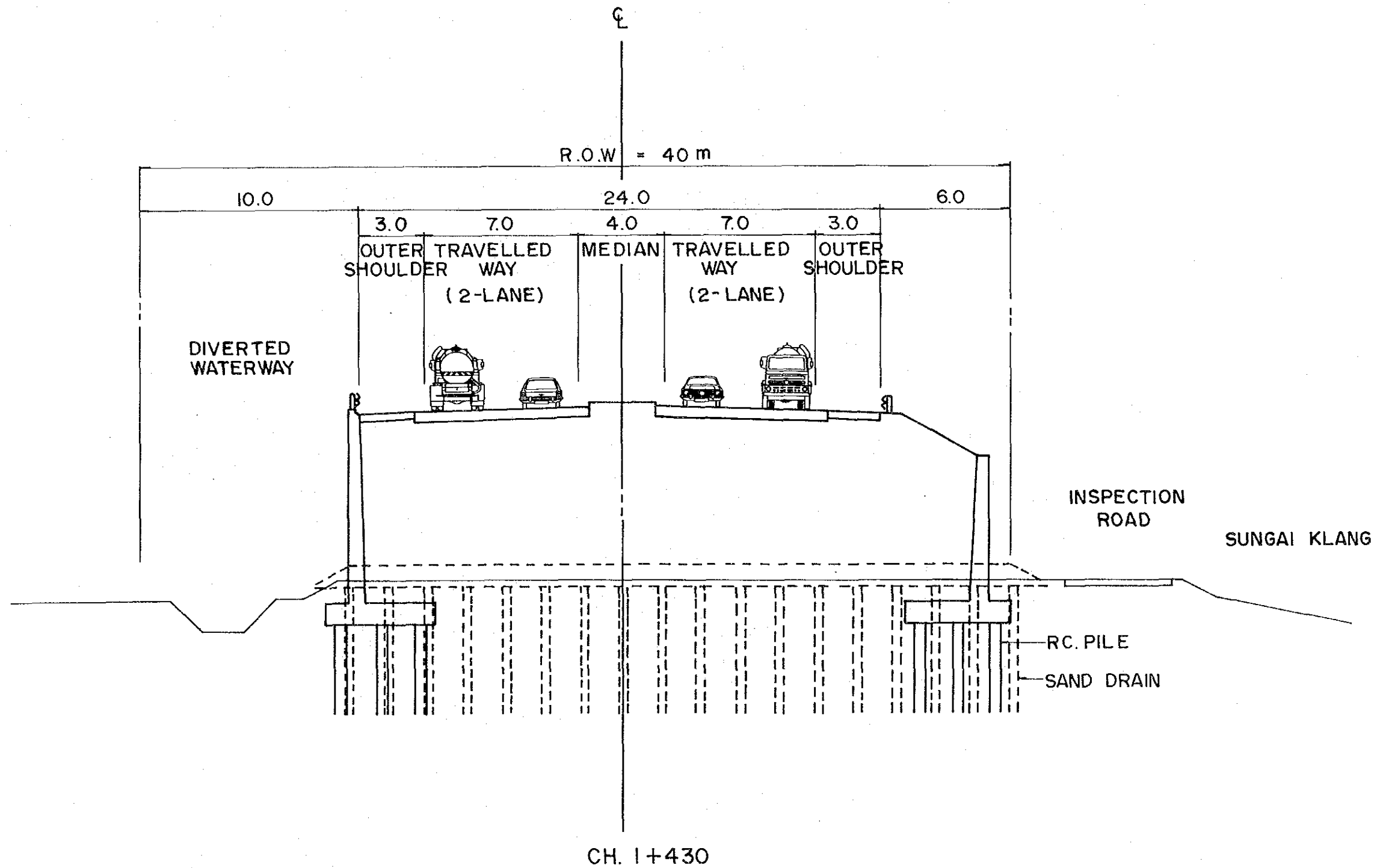


DRAWING NO : 4
DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

JAPAN INTERNATIONAL COOPERATION AGENCY

SHAH ALAM HIGHWAY



HIGHWAY PROJECT

SHAH ALAM HIGHWAY : TYPICAL CROSS SECTION (2)

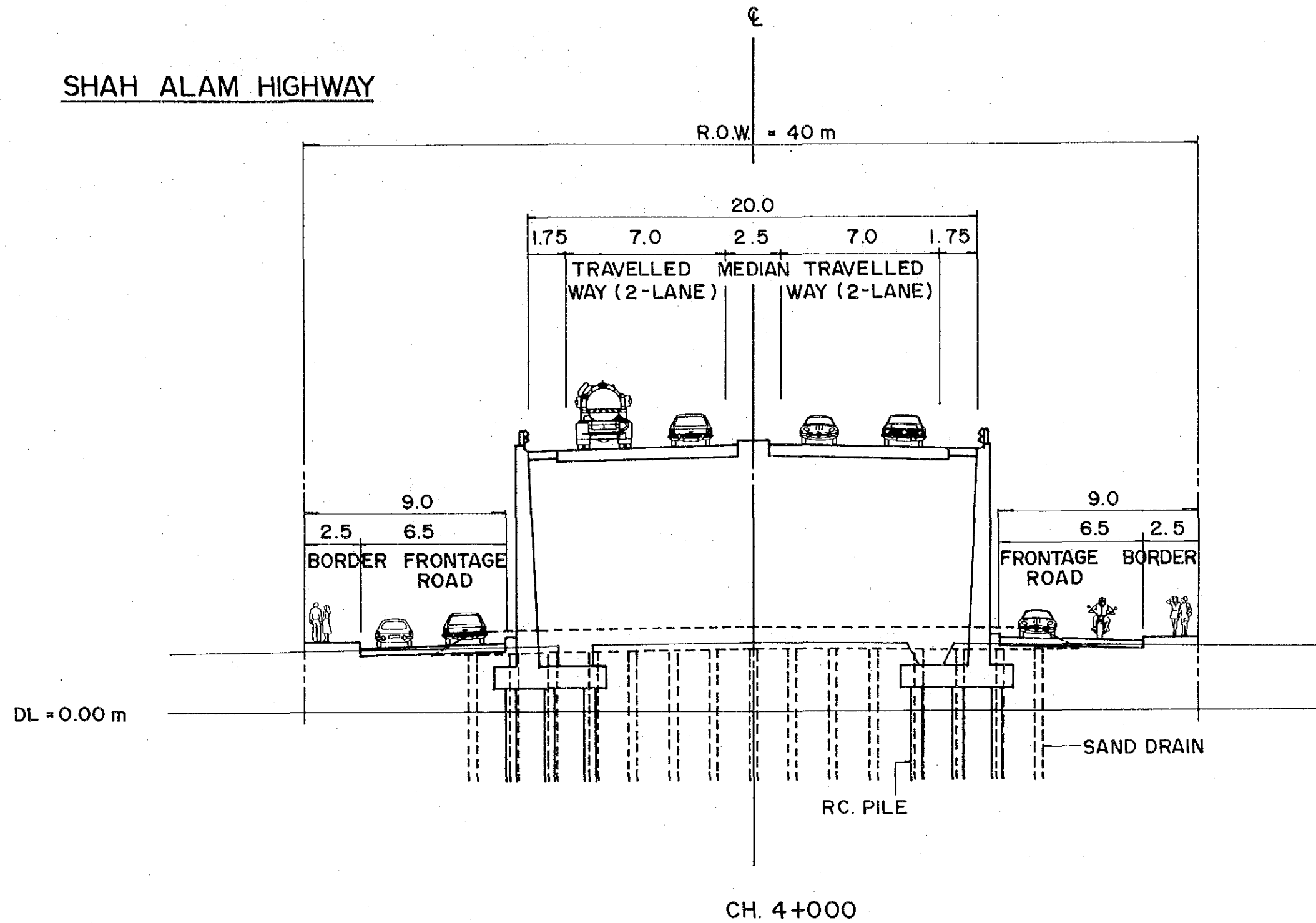
SCALE : 2 1 0 2 4 6 metres

DRAWING NO : 5 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

JAPAN INTERNATIONAL COOPERATION AGENCY

SHAH ALAM HIGHWAY



HIGHWAY PROJECT

SHAH ALAM HIGHWAY : TYPICAL CROSS SECTION (3)

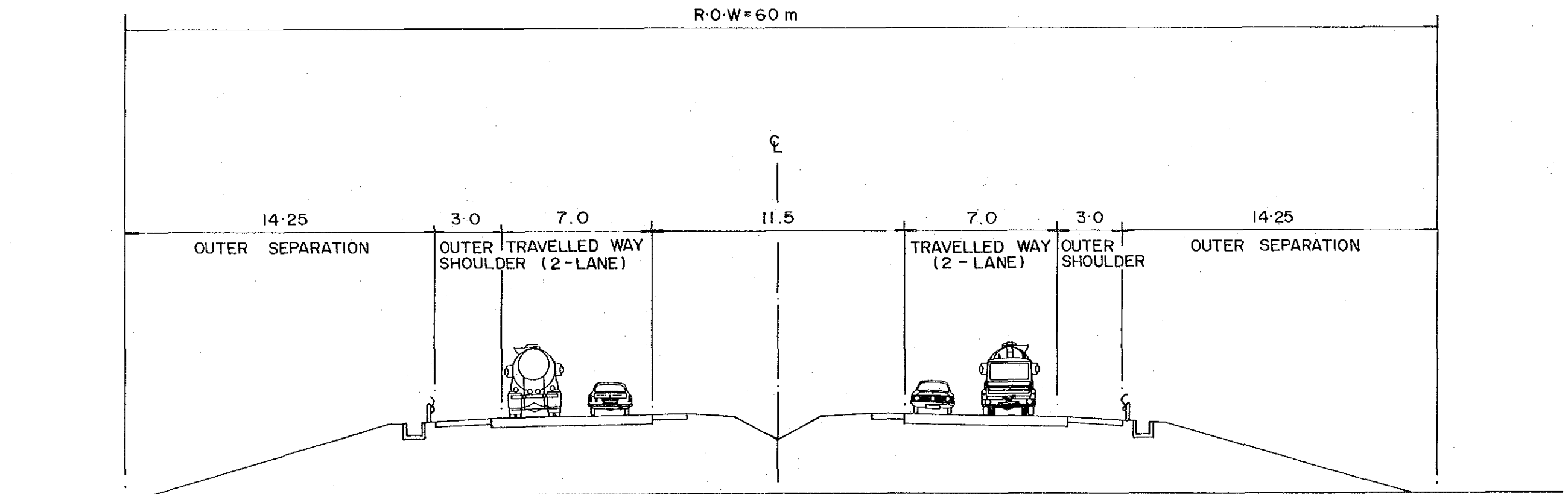
SCALE : 2 1 0 2 4 6 metres

DRAWING NO : 6 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

JAPAN INTERNATIONAL COOPERATION AGENCY

SHAH ALAM HIGHWAY



CH. 7 + 000

HIGHWAY PROJECT

SHAH ALAM HIGHWAY : TYPICAL CROSS SECTION (4)

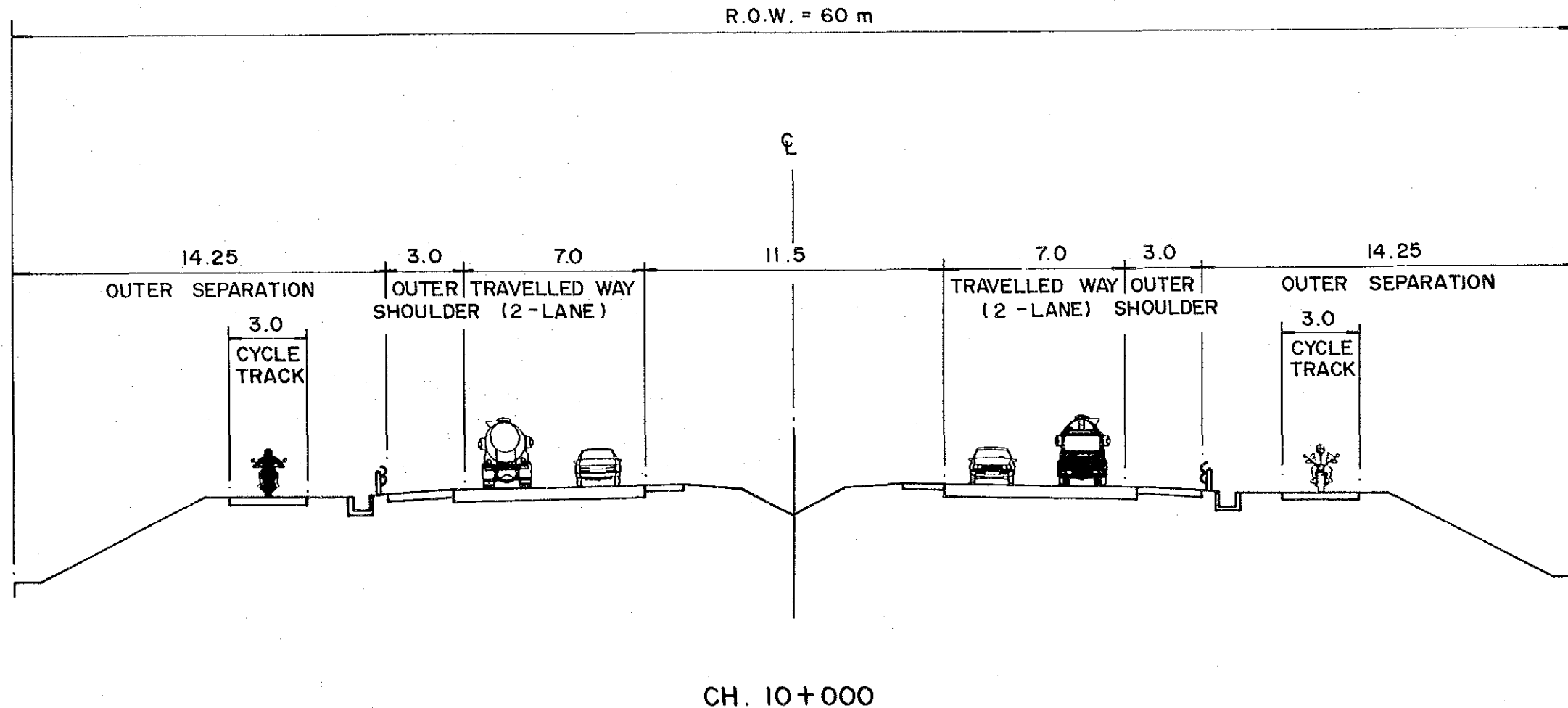
SCALE 2 1 0 2 4 metres 6

DRAWING NO : 7 DATE :

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JAPAN INTERNATIONAL COOPERATION AGENCY

SHAH ALAM HIGHWAY



TYPICAL CROSS SECTION FOR 6 - LANE WITH CYCLE TRACK

HIGHWAY PROJECT

SHAH ALAM HIGHWAY : TYPICAL CROSS SECTION (5)

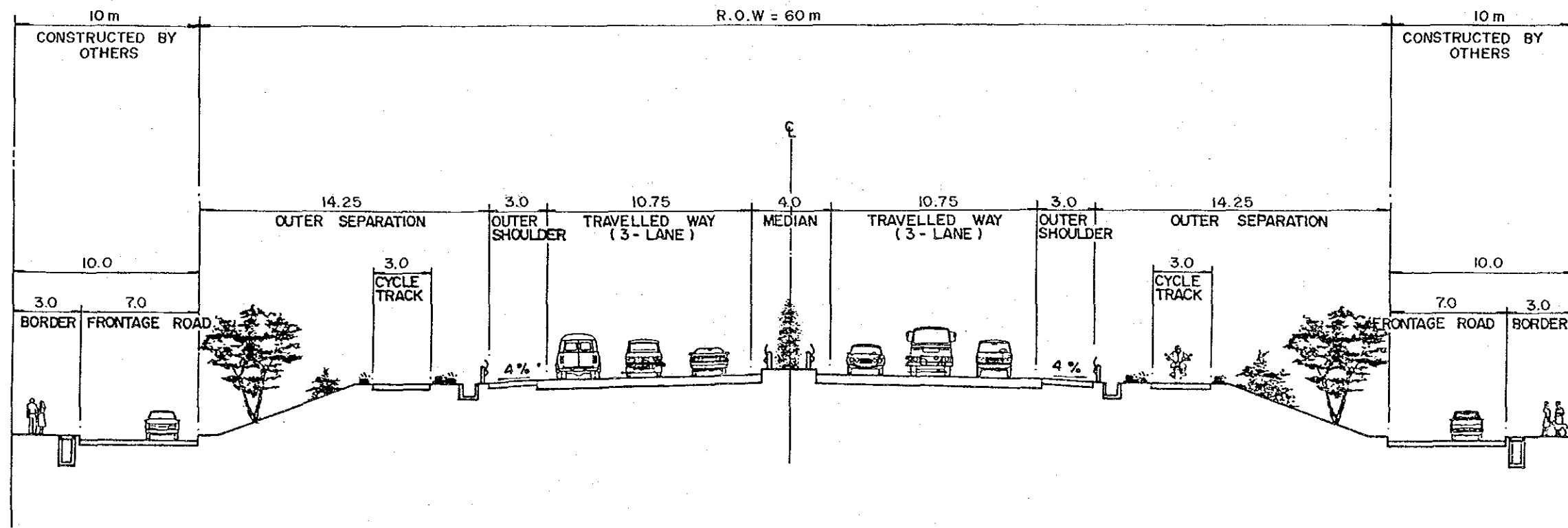
SCALE : 4 2 0 2 4 6 metres

DRAWING NO : 8 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

JAPAN INTERNATIONAL COOPERATION AGENCY

SHAH ALAM HIGHWAY



CH. 16 + 000

HIGHWAY PROJECT

SHAH ALAM HIGHWAY : TYPICAL CROSS SECTION (6)

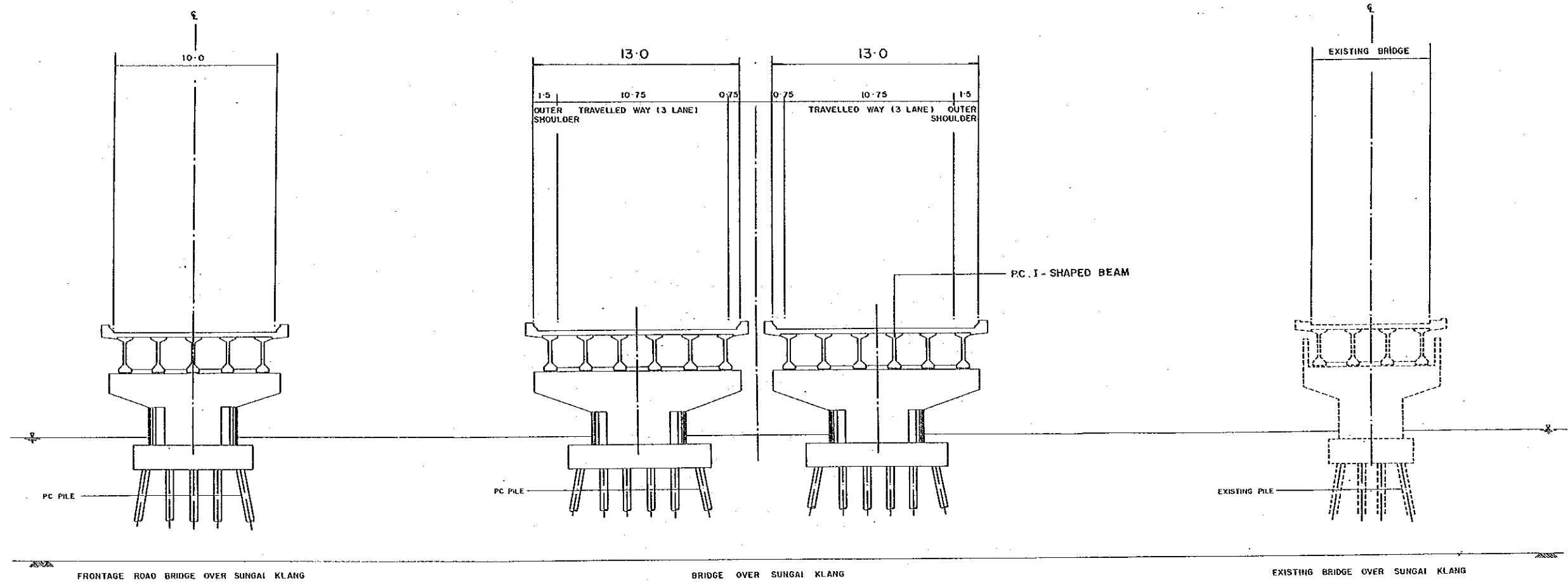
SCALE : 4 2 0 2 4 6 metres

DRAWING NO : 9
DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

JAPAN INTERNATIONAL COOPERATION AGENCY

SHAH ALAM HIGHWAY



CH-22 + 020

HIGHWAY PROJECT

SHAH ALAM HIGHWAY : TYPICAL CROSS SECTION (7)

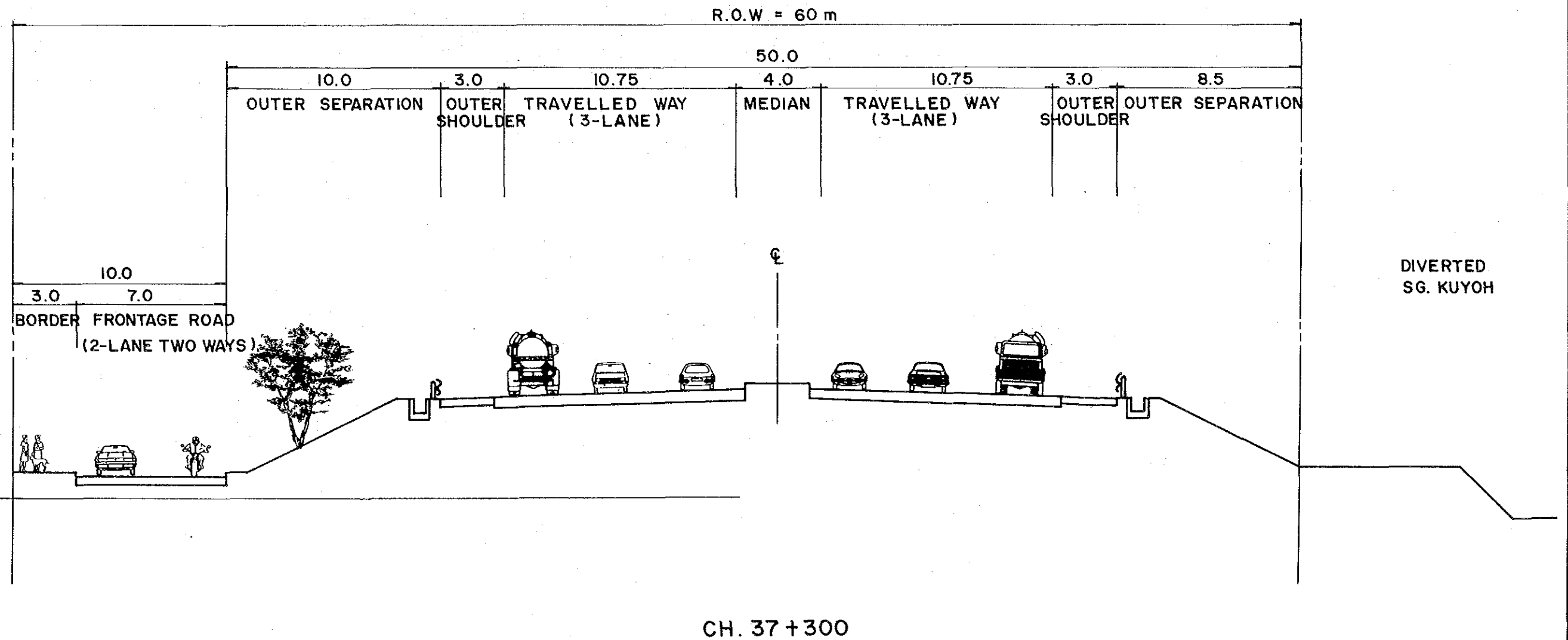
SCALE 40 20 0 20 40 60 80 metres

DRAWING NO : 10 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

JAPAN INTERNATIONAL COOPERATION AGENCY

MIDDLE RING ROAD II



HIGHWAY PROJECT

SCALE 2 1 0 2 4 6 metres

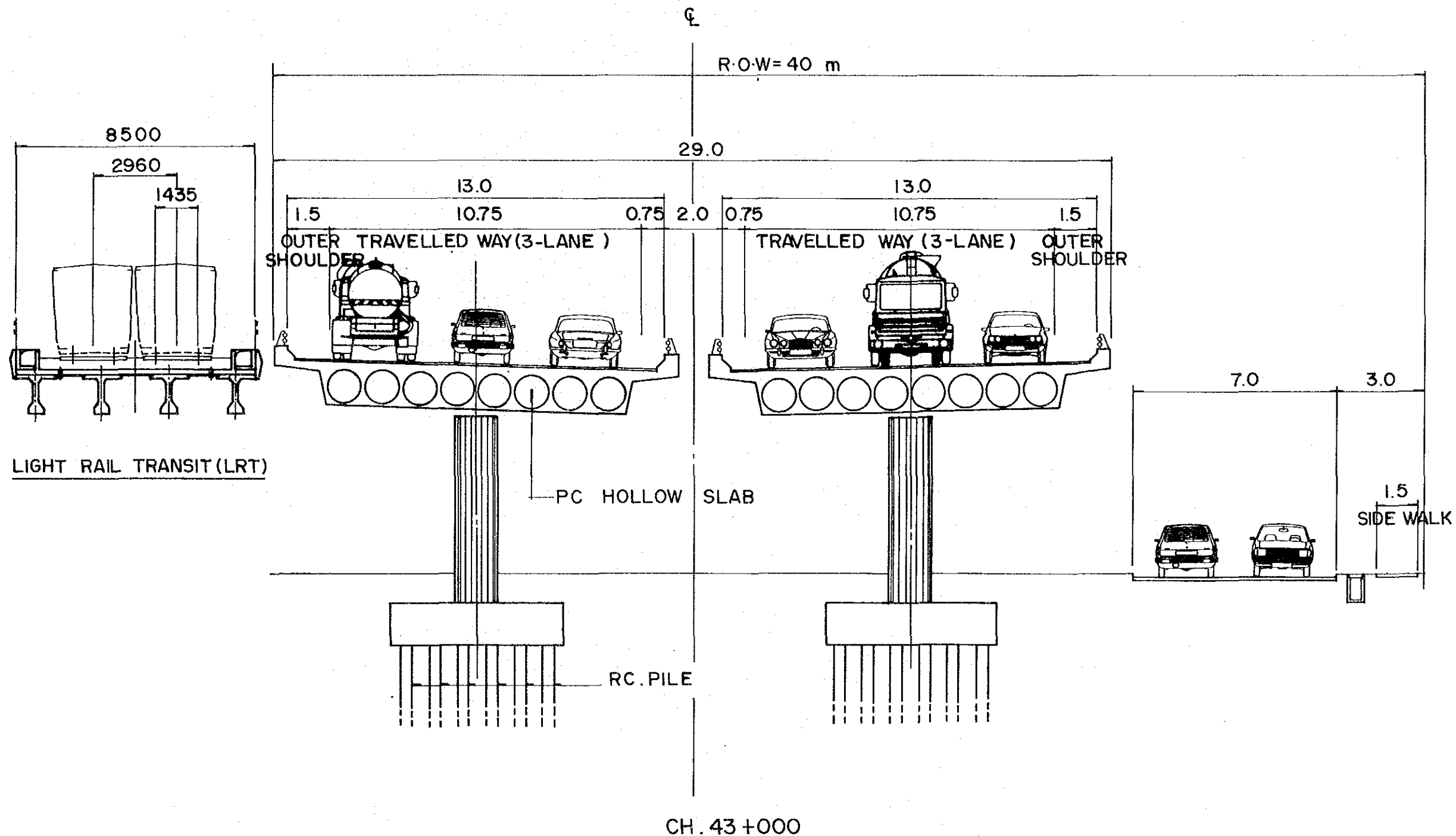
THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

SOUTHERN PART OF MIDDLE RING ROAD II : TYPICAL CROSS SECTION (1)

DRAWING NO : 11 DATE :

JAPAN INTERNATIONAL COOPERATION AGENCY

MIDDLE RING ROAD II



HIGHWAY PROJECT

SCALE : 2 1 0 2 metres 4

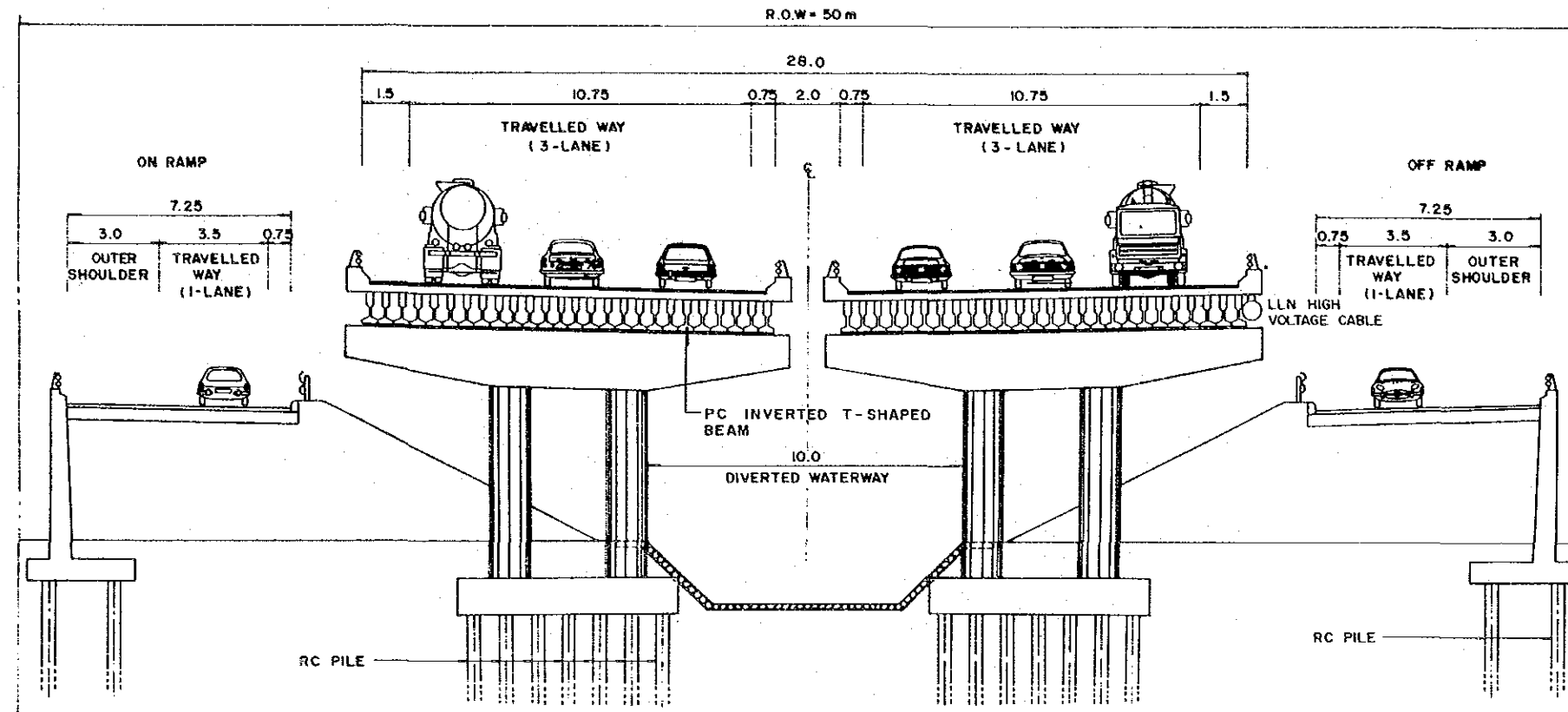
THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

SOUTHERN PART OF MIDDLE RING ROAD II : TYPICAL CROSS SECTION (2)

DRAWING NO : 12 DATE :

JAPAN INTERNATIONAL COOPERATION AGENCY

MIDDLE RING ROAD II



CH. 44+760

HIGHWAY PROJECT

SCALE : 2 1 0 2 4 6 metres

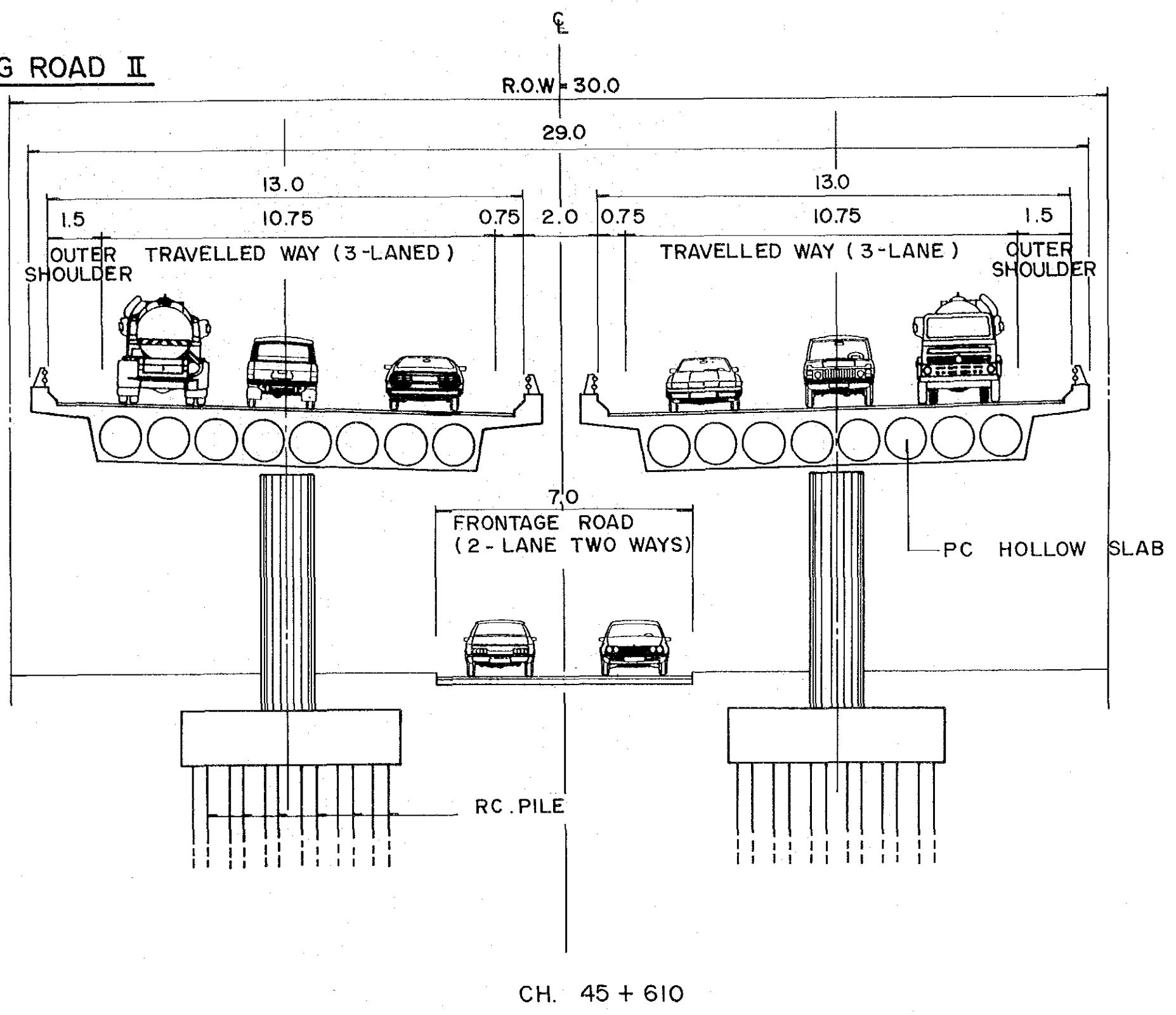
THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

SOUTHERN PART OF MIDDLE RING ROAD II : TYPICAL CROSS SECTION (3)

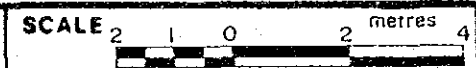
DRAWING NO : 13 DATE :

JAPAN INTERNATIONAL COOPERATION AGENCY

MIDDLE RING ROAD II



HIGHWAY PROJECT



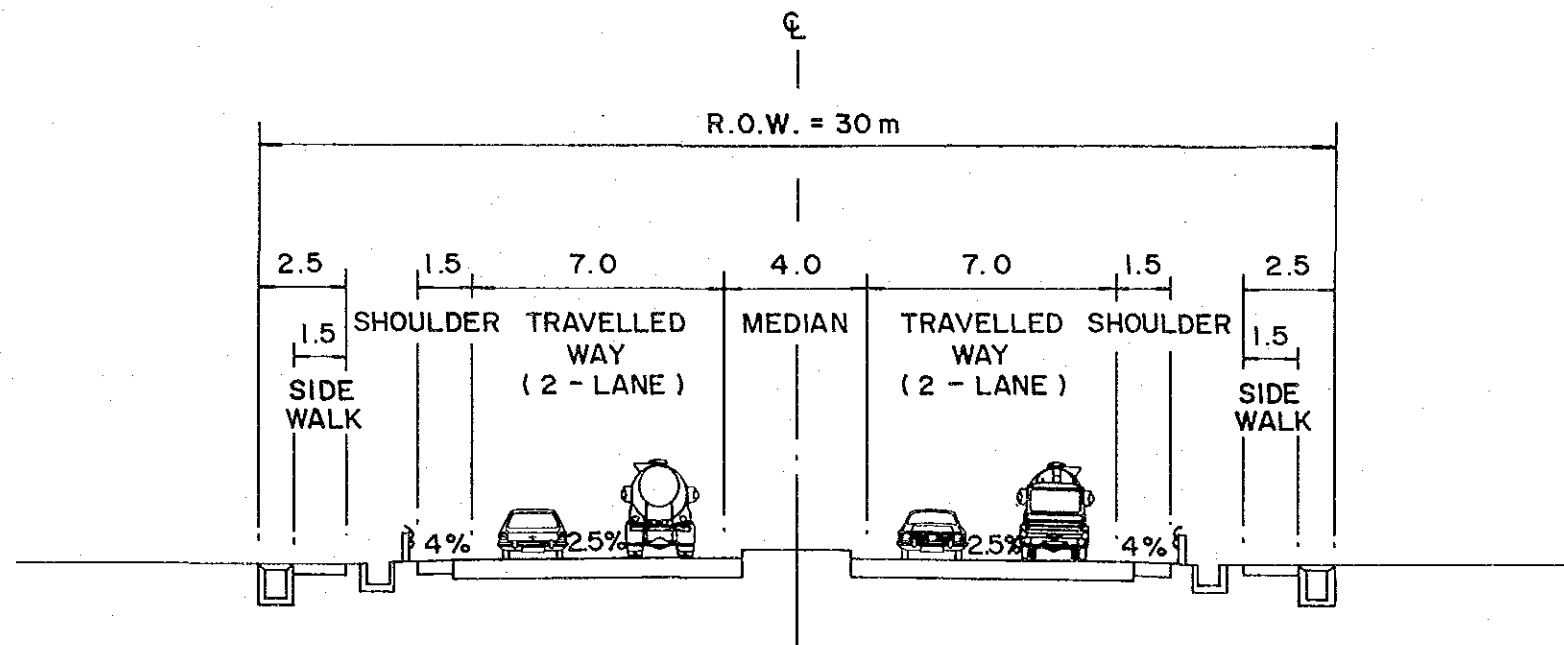
DRAWING NO : 14 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

JAPAN INTERNATIONAL COOPERATION AGENCY

SOUTHERN PART OF MIDDLE RING ROAD II : TYPICAL CROSS SECTION (4)

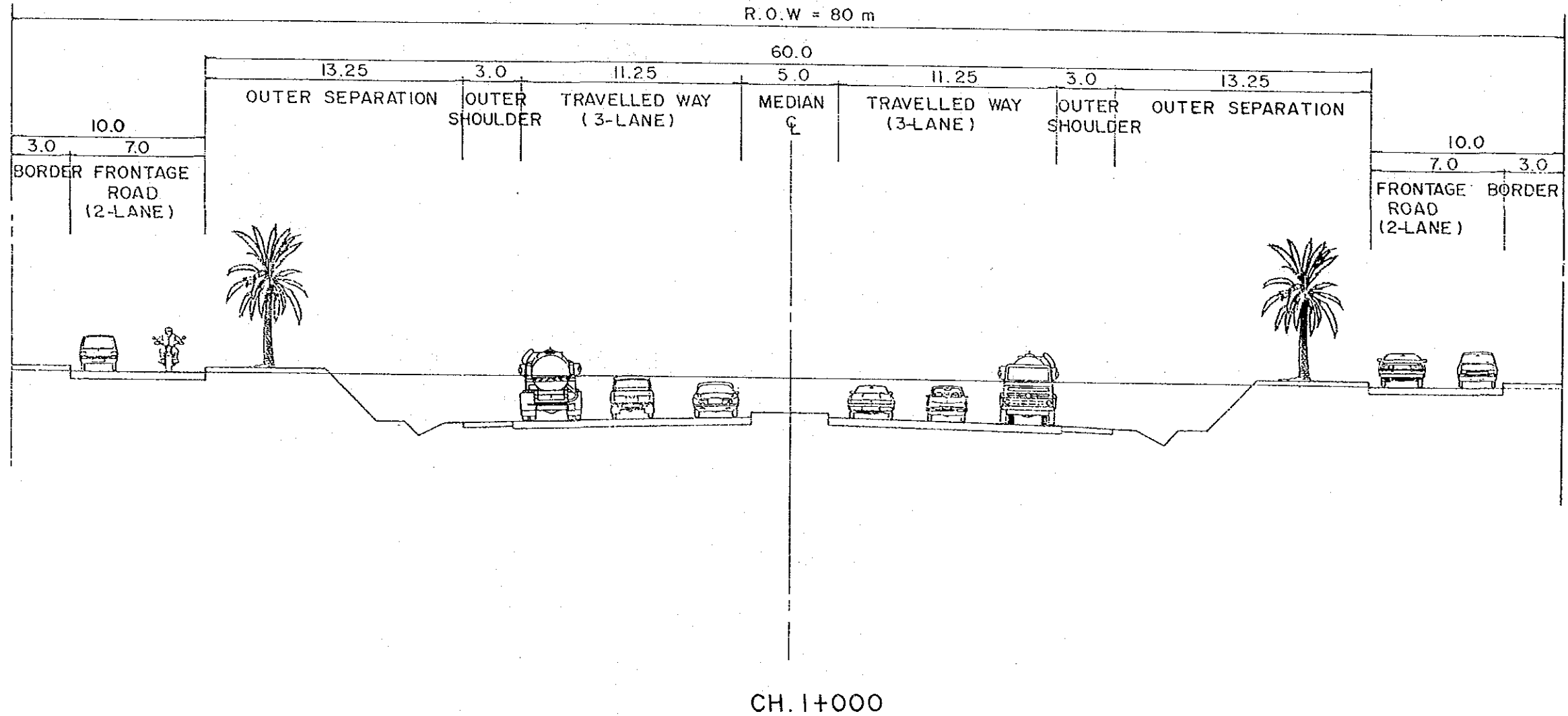
MIDDLE RING ROAD II



EXTENTION OF JALAN SS 8

HIGHWAY PROJECT	SCALE : $\frac{1}{210}$ $\frac{1}{24}$ $\frac{1}{6}$ metres 	THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
SOUTHERN PART OF MIDDLE RING ROAD II : TYPICAL CROSS SECTION (5)	DRAWING NO : 15 DATE :	JAPAN INTERNATIONAL COOPERATION AGENCY

NORTH - SOUTH LINK



HIGHWAY PROJECT

NORTH-SOUTH EXPRESSWAY LINK : TYPICAL CROSS SECTION (1)

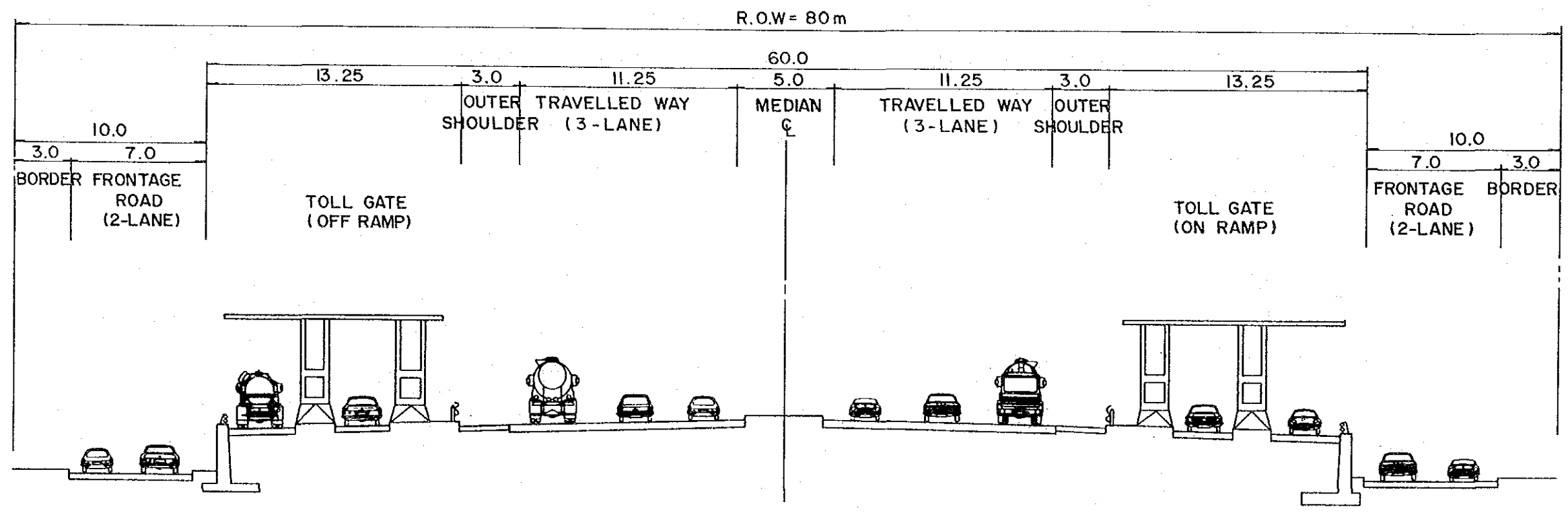
SCALE : 4 2 0 2 4 6 metres

DRAWING NO : 16 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

JAPAN INTERNATIONAL COOPERATION AGENCY

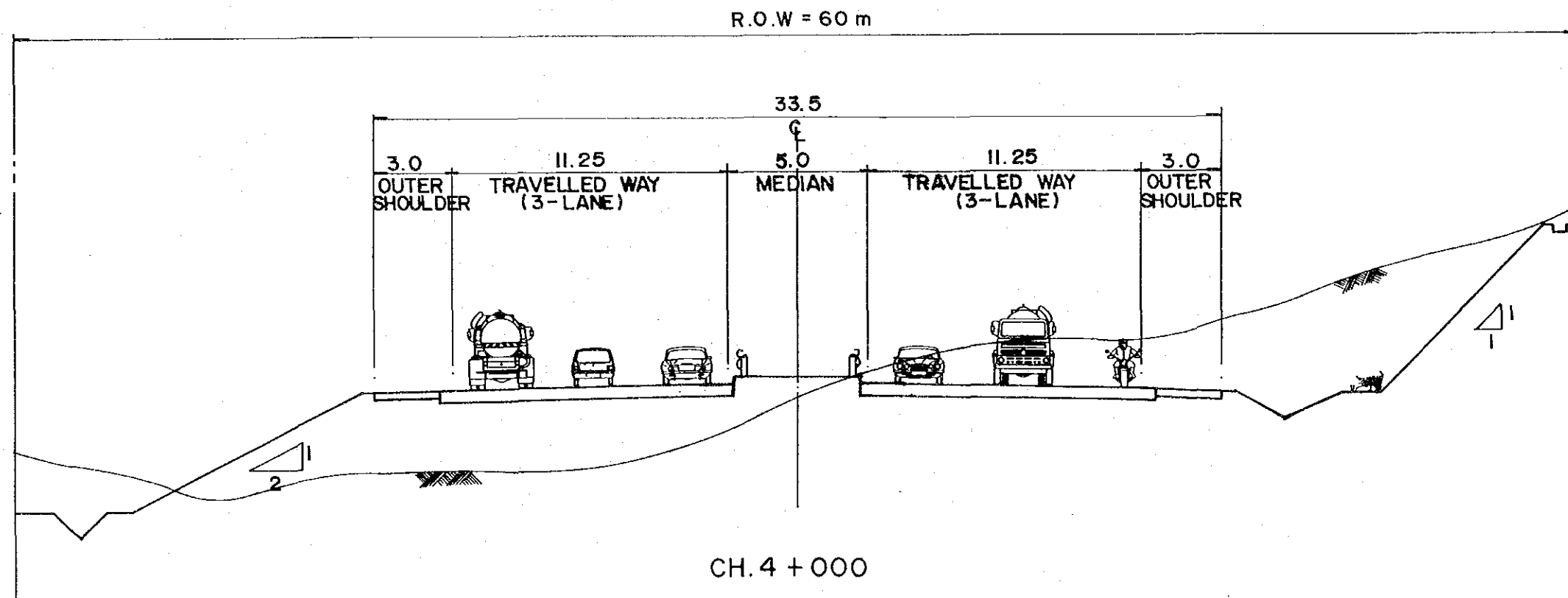
NORTH - SOUTH LINK



CH. 2+650

HIGHWAY PROJECT	SCALE : 4 2 0 2 4 6 metres 	THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
NORTH-SOUTH EXPRESSWAY LINK : TYPICAL CROSS SECTION (2)	DRAWING NO : 17 DATE :	JAPAN INTERNATIONAL COOPERATION AGENCY

NORTH-SOUTH LINK



HIGHWAY PROJECT

NORTH-SOUTH EXPRESSWAY LINK : TYPICAL CROSS SECTION (3)

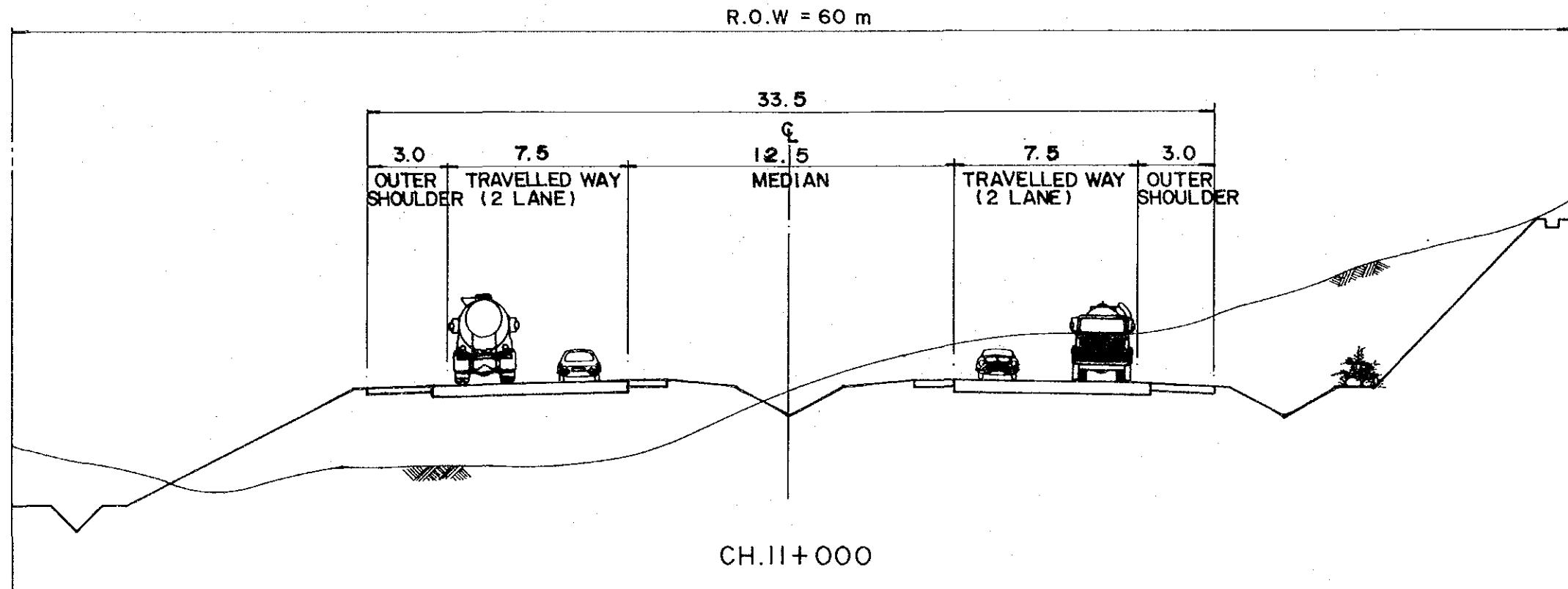
SCALE : 2 1 0 2 4 6 metres

DRAWING NO : 18 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

JAPAN INTERNATIONAL COOPERATION AGENCY

NORTH-SOUTH LINK



HIGHWAY PROJECT

NORTH-SOUTH EXPRESSWAY LINK : TYPICAL CROSS SECTION (4)

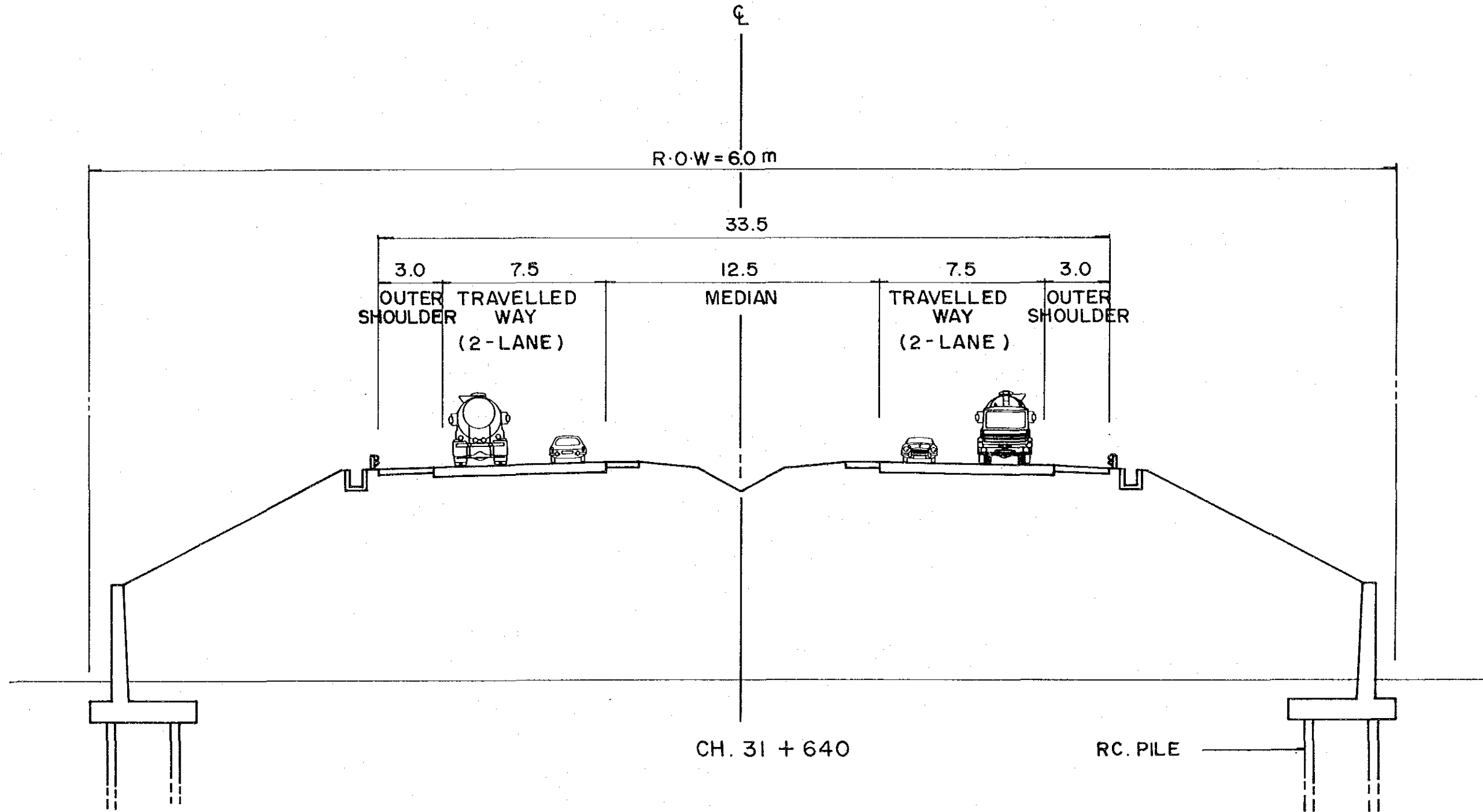
SCALE : 2 1 0 2 4 6 metres

DRAWING NO : 19 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

JAPAN INTERNATIONAL COOPERATION AGENCY

NORTH-SOUTH LINK



HIGHWAY PROJECT

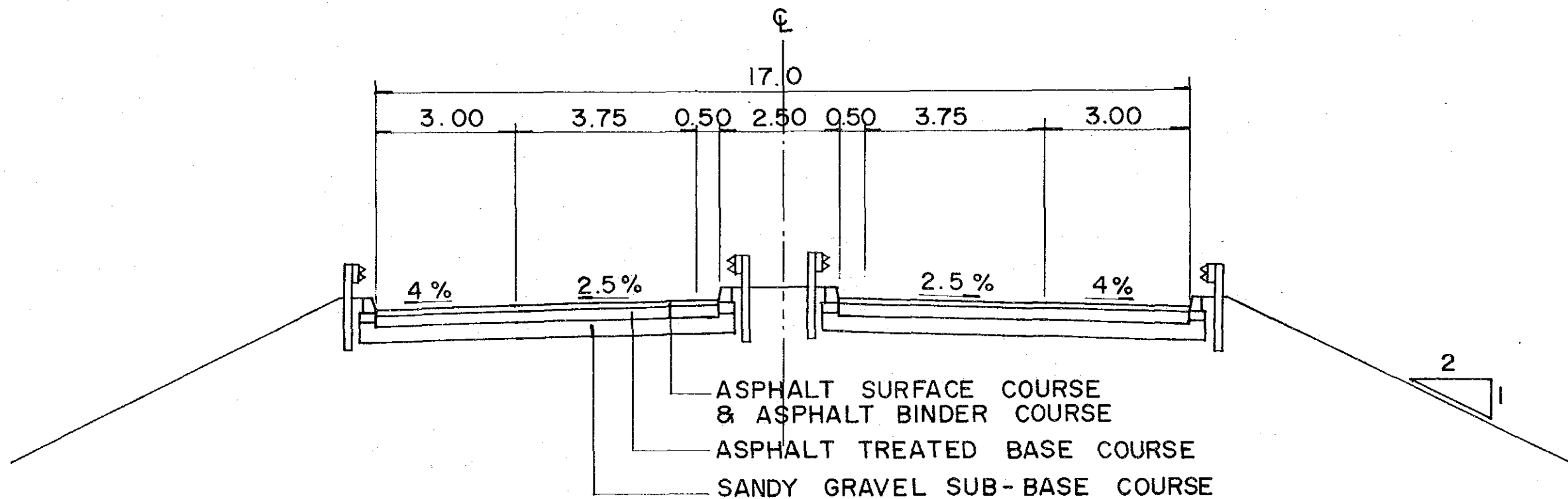
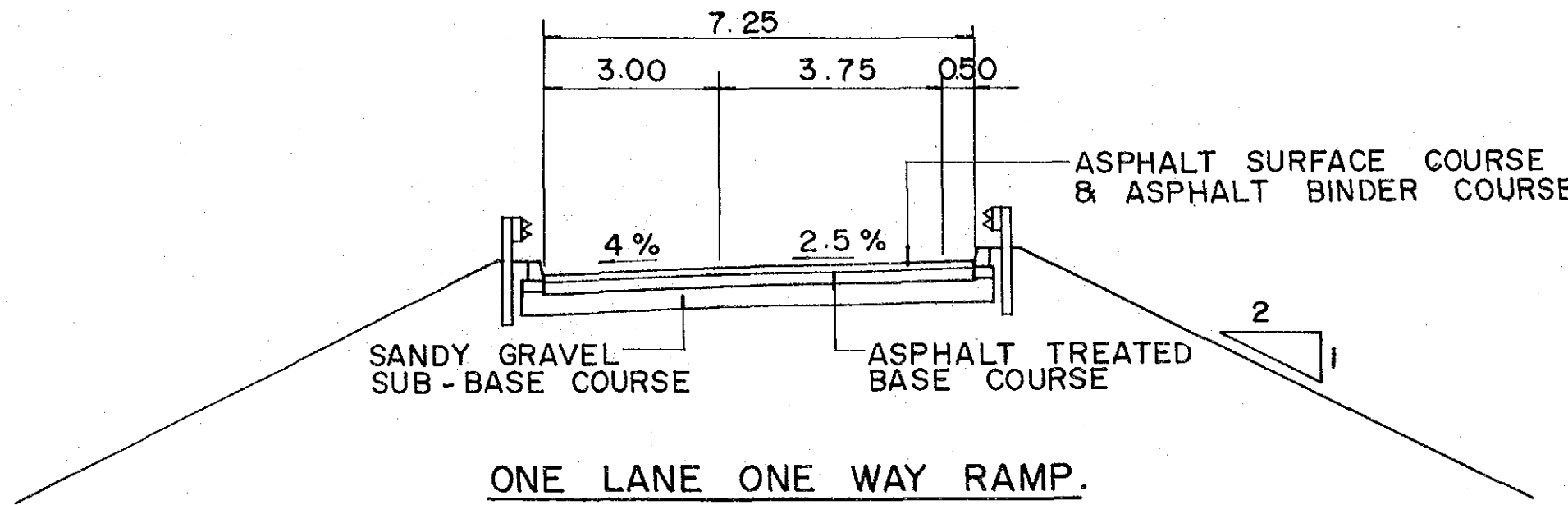
NORTH-SOUTH EXPRESSWAY LINK : TYPICAL CROSS SECTION (5)

SCALE : 2 1 0 2 4 6 metres

DRAWING NO : 20 DATE :

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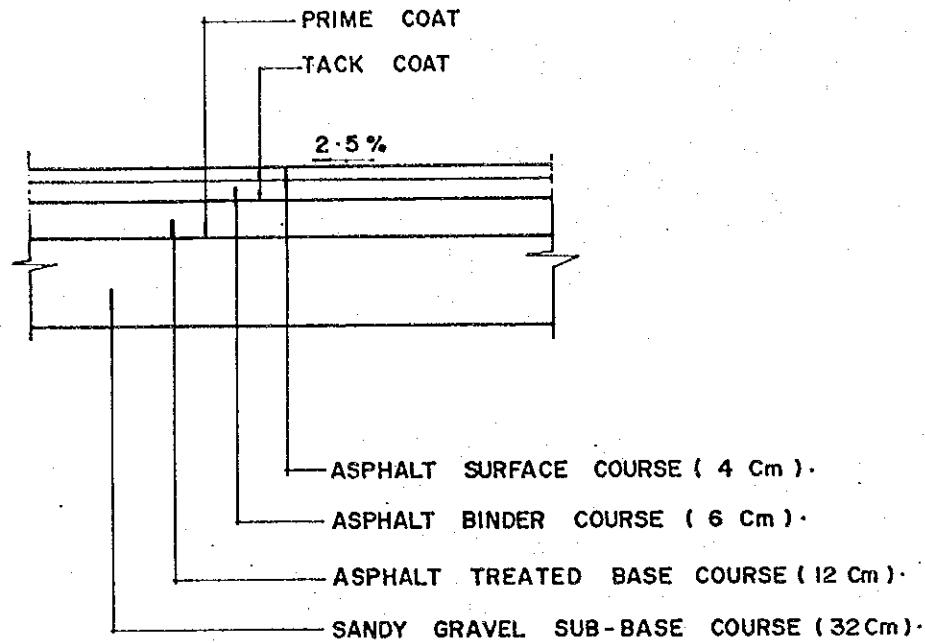
HIGHWAY PROJECT

RAMPWAY : TYPICAL CROSS SECTION

SCALE: 0 1 2 3 metres

DRAWING NO: 21 DATE:

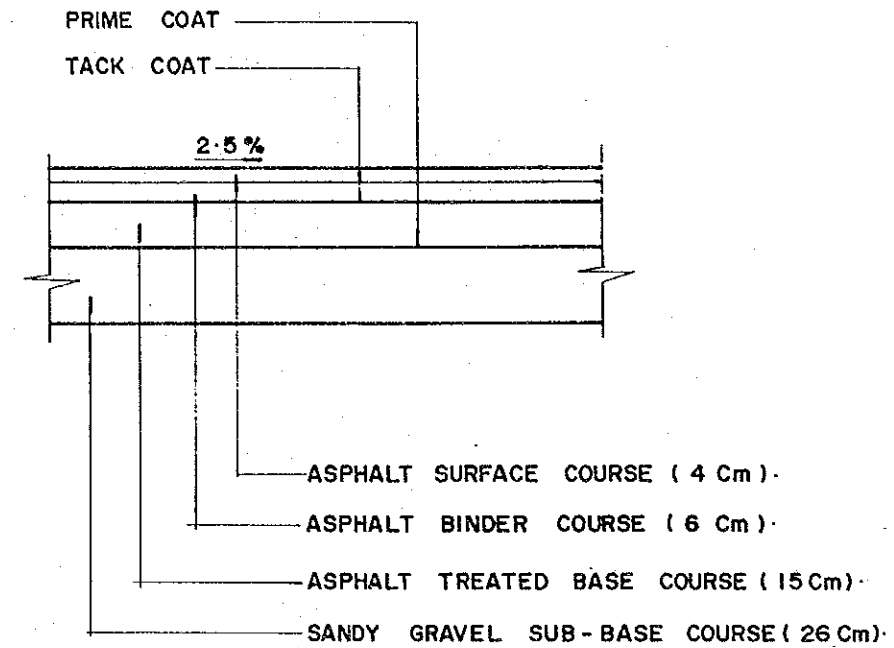
THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY



SHAH ALAM HIGHWAY
NORTH KLANG STRAITS BYPASS - SOUTH KLANG STRAITS BYPASS

NORTH SOUTH LINK
SHAH ALAM HIGHWAY - KUALA LUMPUR - SEREMBAN EXPRESSWAY
NEW KLANG VALLEY EXPRESSWAY - SHAH ALAM HIGHWAY

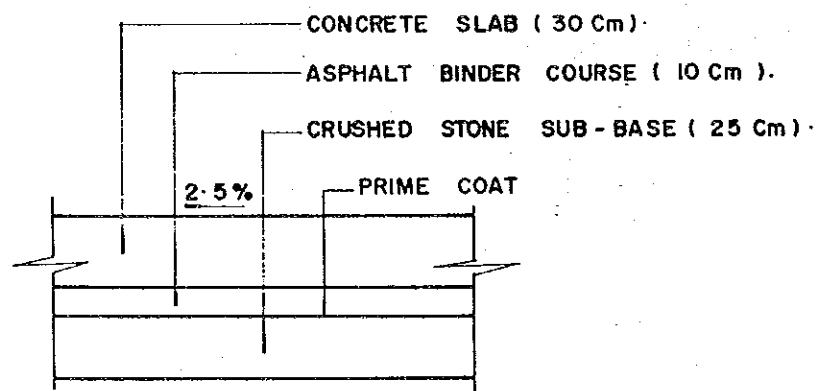
FLEXIBLE PAVEMENT STRUCTURE
TOTAL THICKNESS = 54 Cm



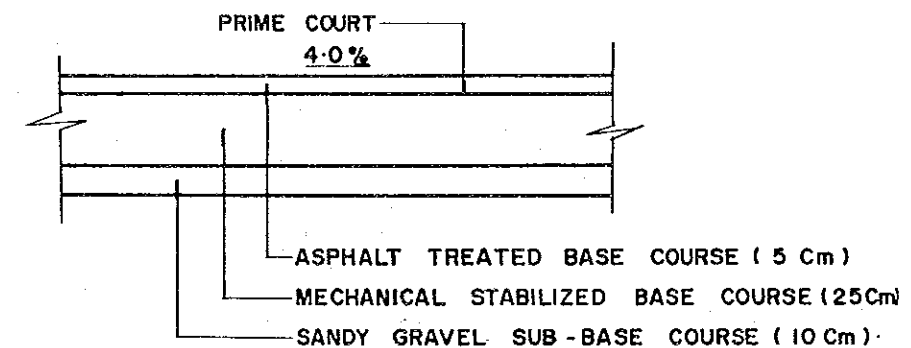
SHAH ALAM HIGHWAY
SOUTH KLANG STRAITS BY-PASS - EXTENSION OF JLN SS 8/1

SOUTHERN PART OF MIDDLE RING ROAD II
EXTENSION OF JLN SS 8/1 - JLN CHERAS

FLEXIBLE PAVEMENT STRUCTURE
TOTAL THICKNESS = 52 Cm



RIGID PAVEMENT STRUCTURE (FOR TOLL PLAZA)
TOTAL THICKNESS = 65 Cm



HARD SHOULDER FLEXIBLE PAVEMENT STRUCTURE
TOTAL THICKNESS = 40 Cm

HIGHWAY PROJECT

PAVEMENT : TYPICAL CROSS SECTION

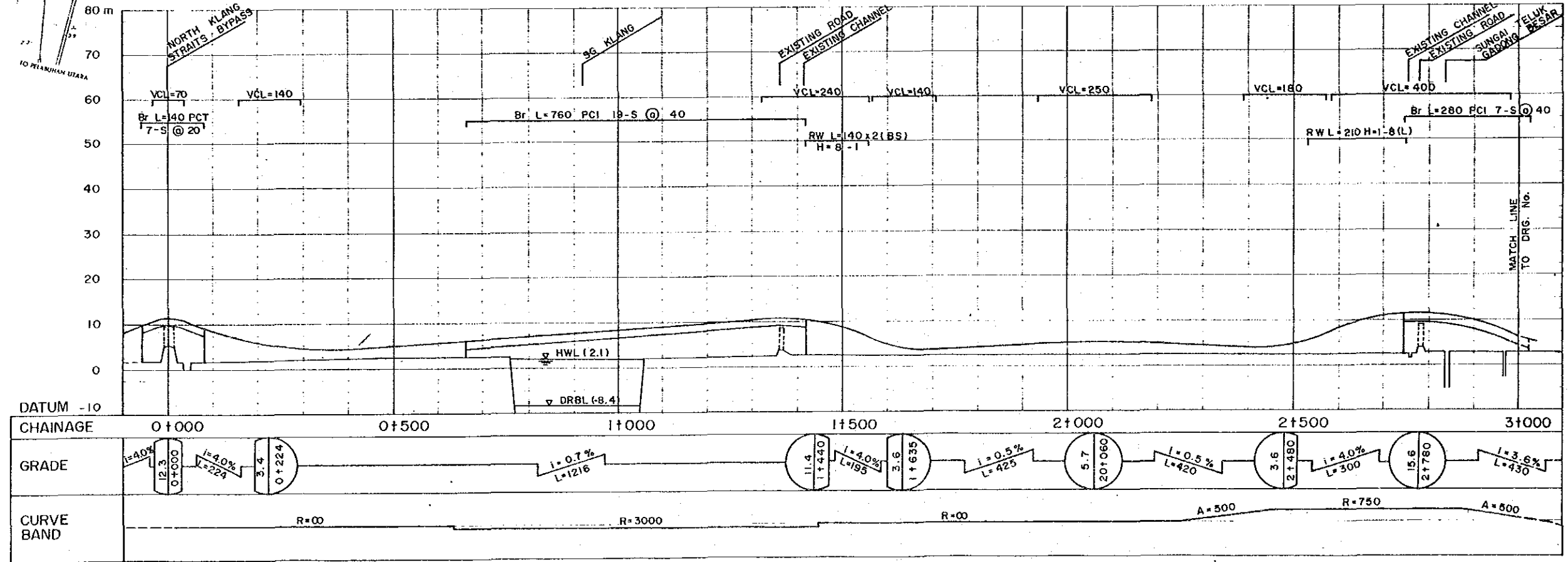
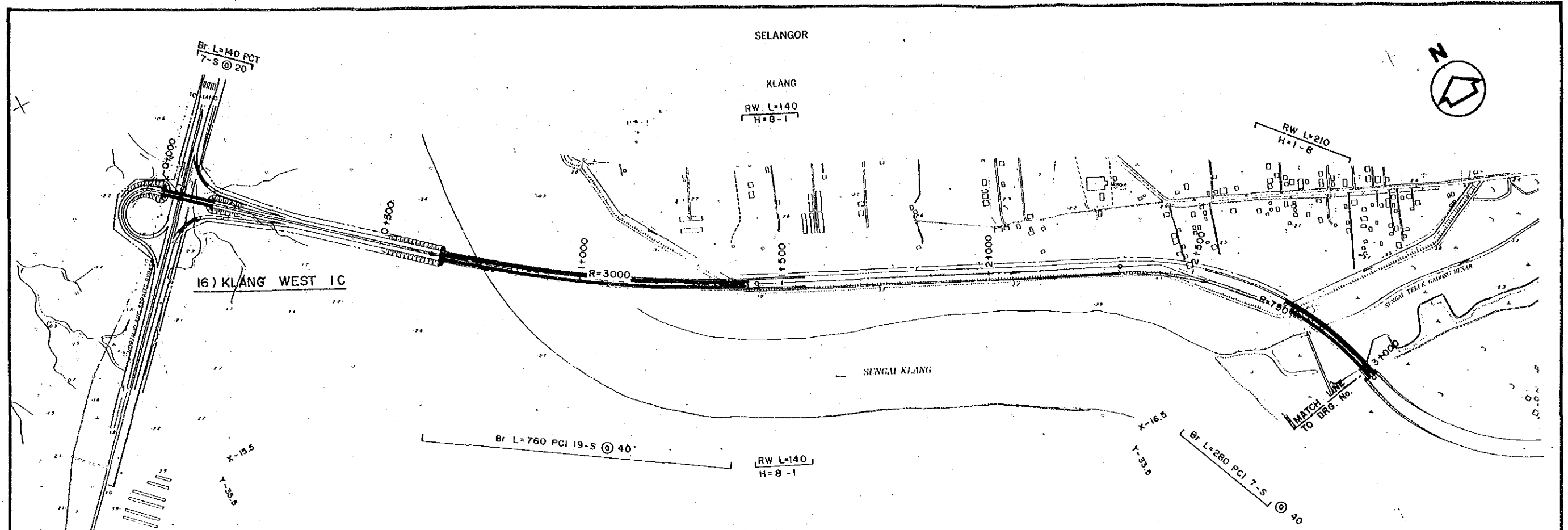
SCALE : NOT TO SCALE

DRAWING NO : 22 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

JAPAN INTERNATIONAL COOPERATION AGENCY

5.0 PLAN AND PROFILES

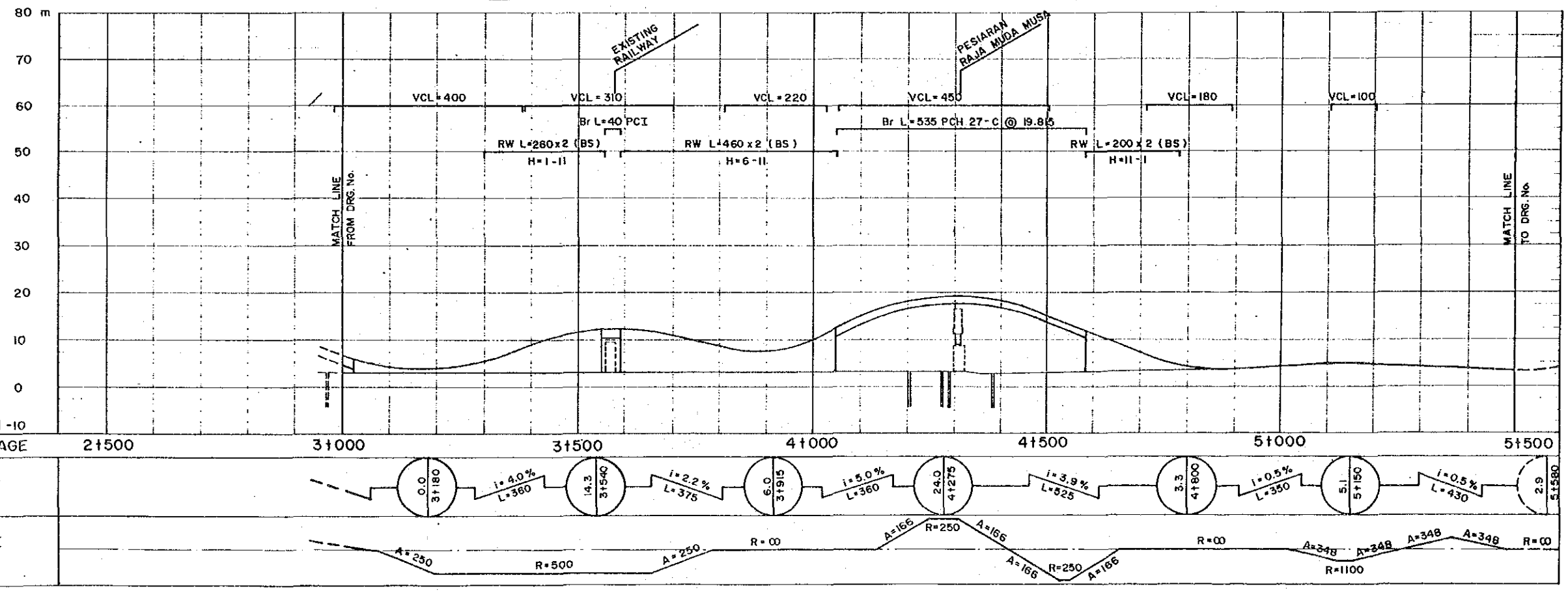
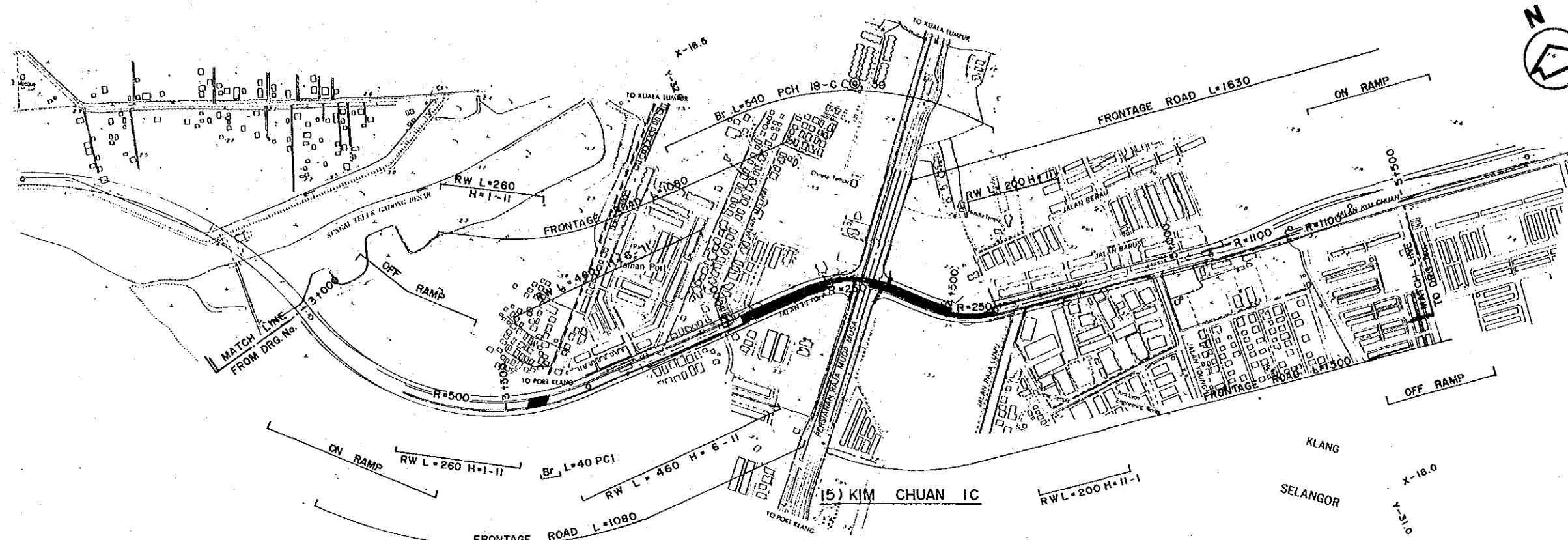


HIGHWAY PROJECT

SHAH ALAM HIGHWAY : PLAN & PROFILE (1)

SCALE :
 HORIZONTAL : 1:1000 metres
 VERTICAL : 1:50
 DRAWING NO : 23
 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY

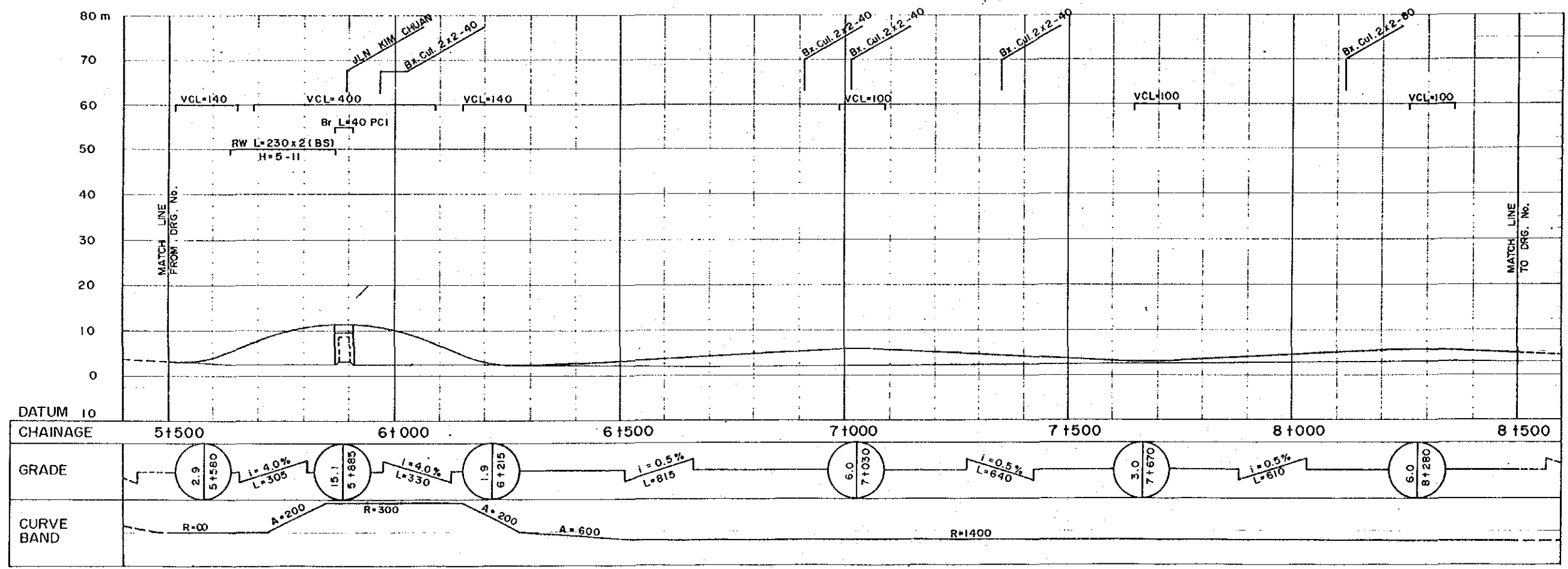
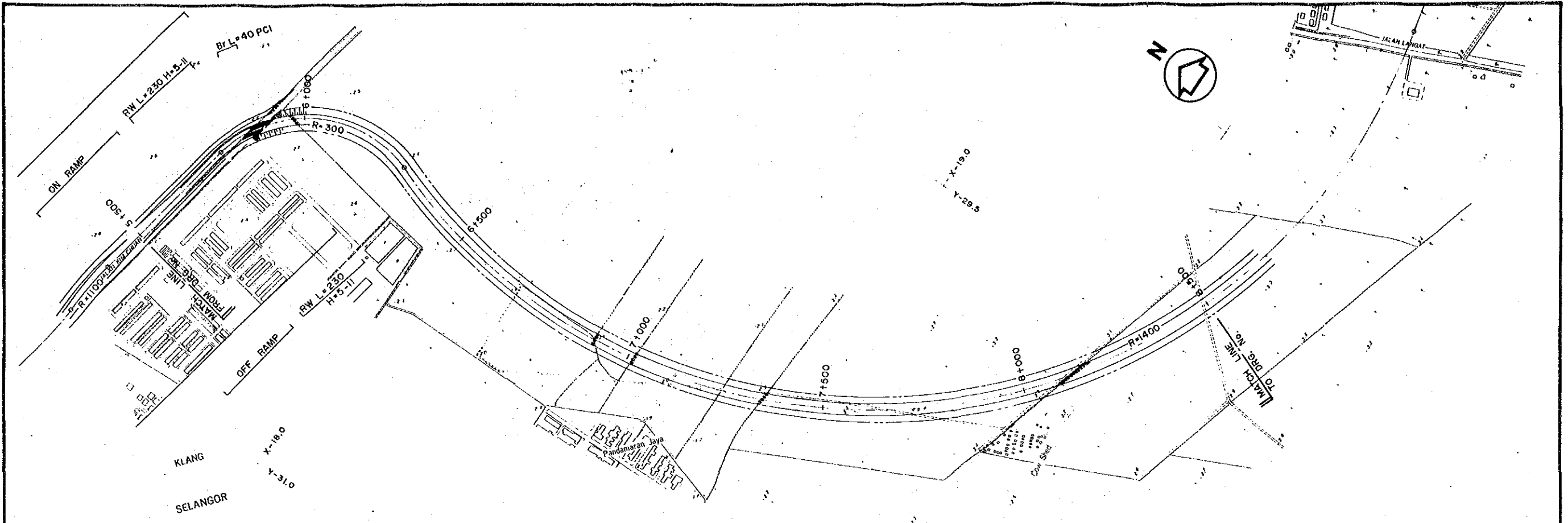


HIGHWAY PROJECT

SHAH ALAM HIGHWAY : PLAN & PROFILE (2)

SCALE :
 HORIZONTAL 1:100
 VERTICAL 1:10
 DRAWING NO : 24
 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY



HIGHWAY PROJECT

SHAH ALAM HIGHWAY : PLAN & PROFILE (3)

SCALE : metres

HORIZONTAL : 1:1000

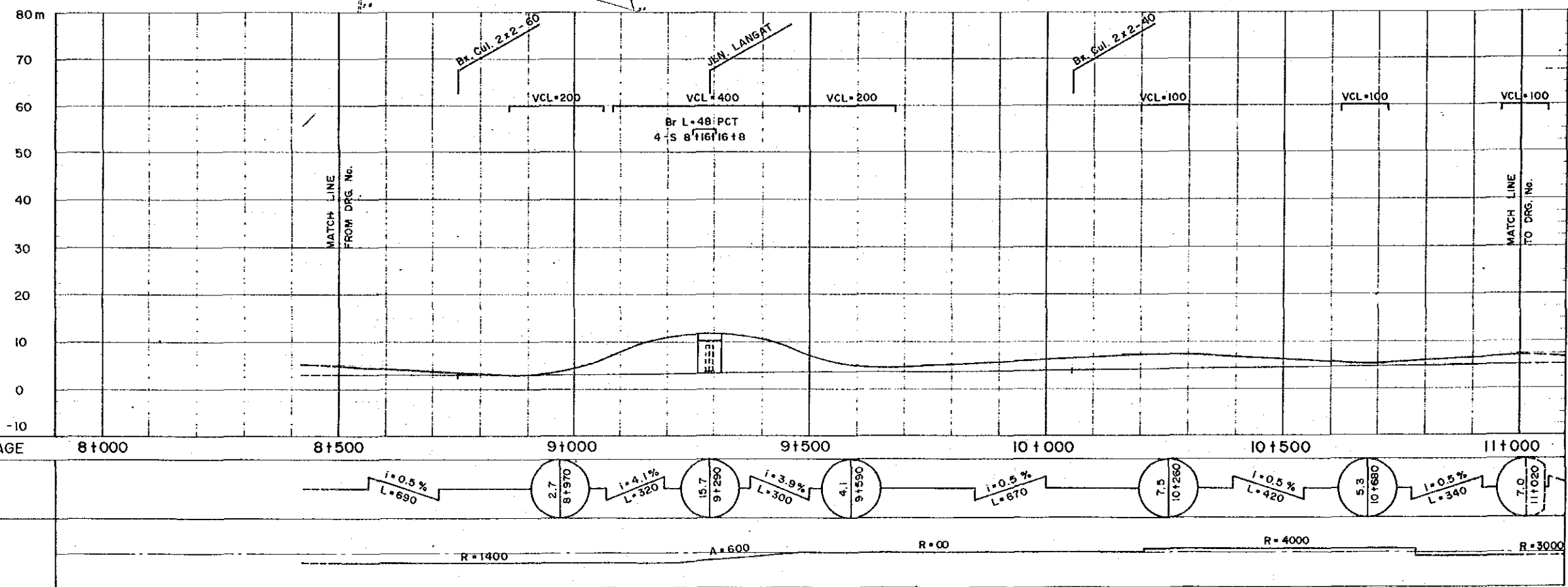
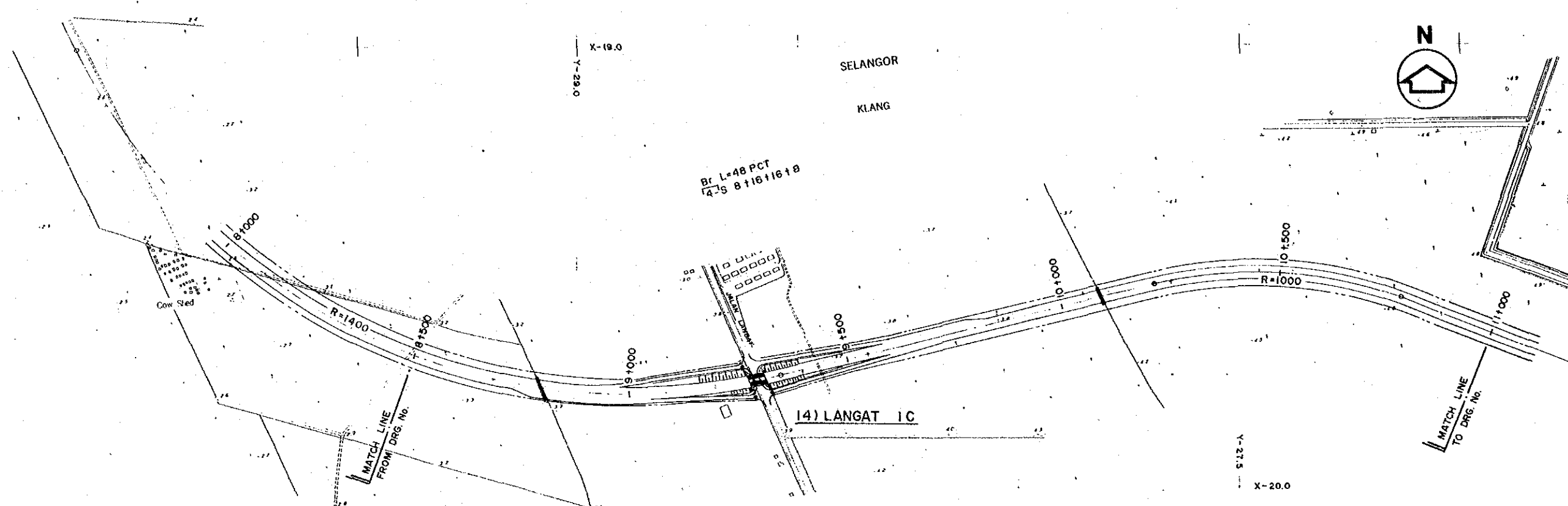
VERTICAL : 1:50

DRAWING NO : 25

DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY

JAPAN INTERNATIONAL COOPERATION AGENCY

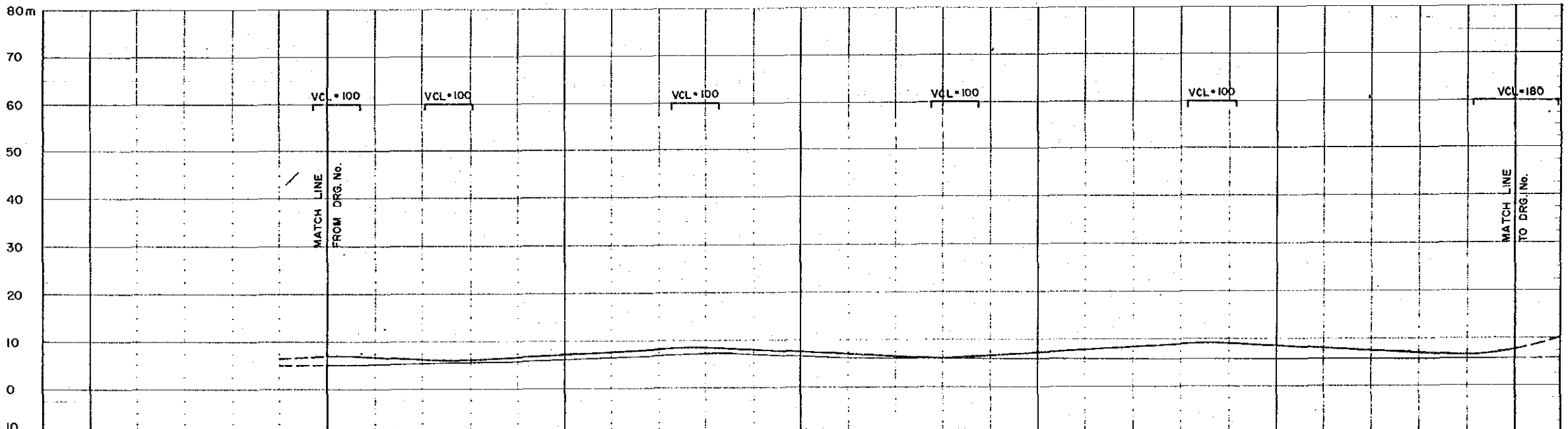
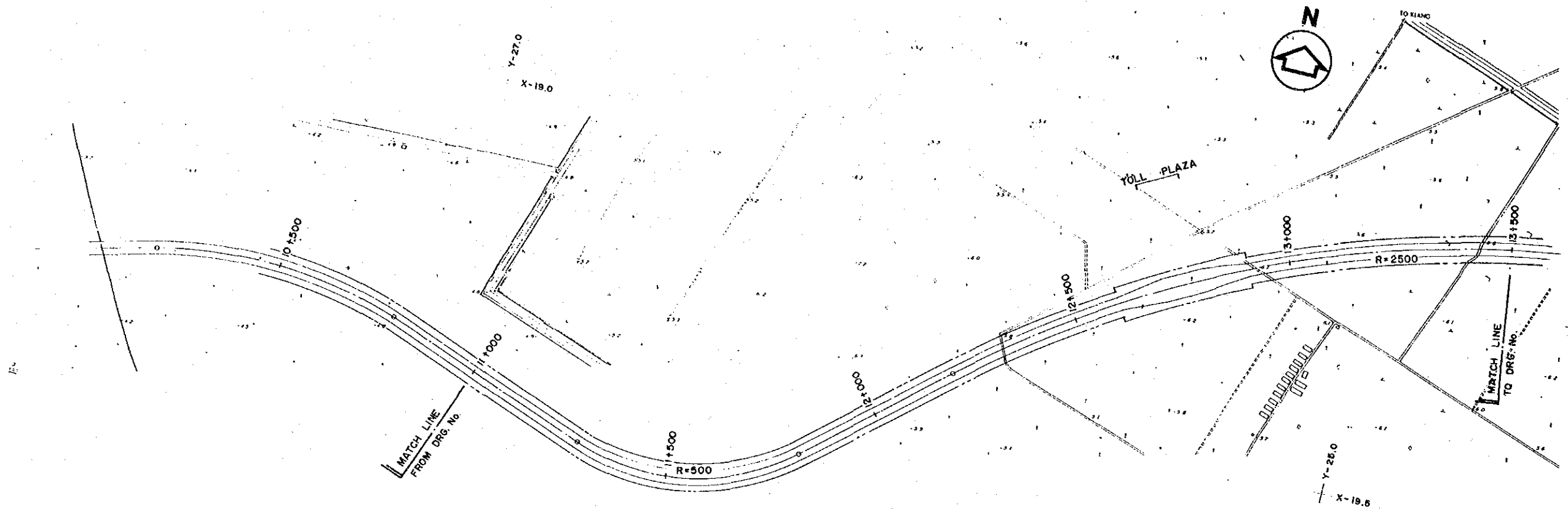


HIGHWAY PROJECT

SHAH ALAM HIGHWAY : PLAN & PROFILE (4)

SCALE :
 HORIZONTAL
 VERTICAL
 DRAWING NO : 26
 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY



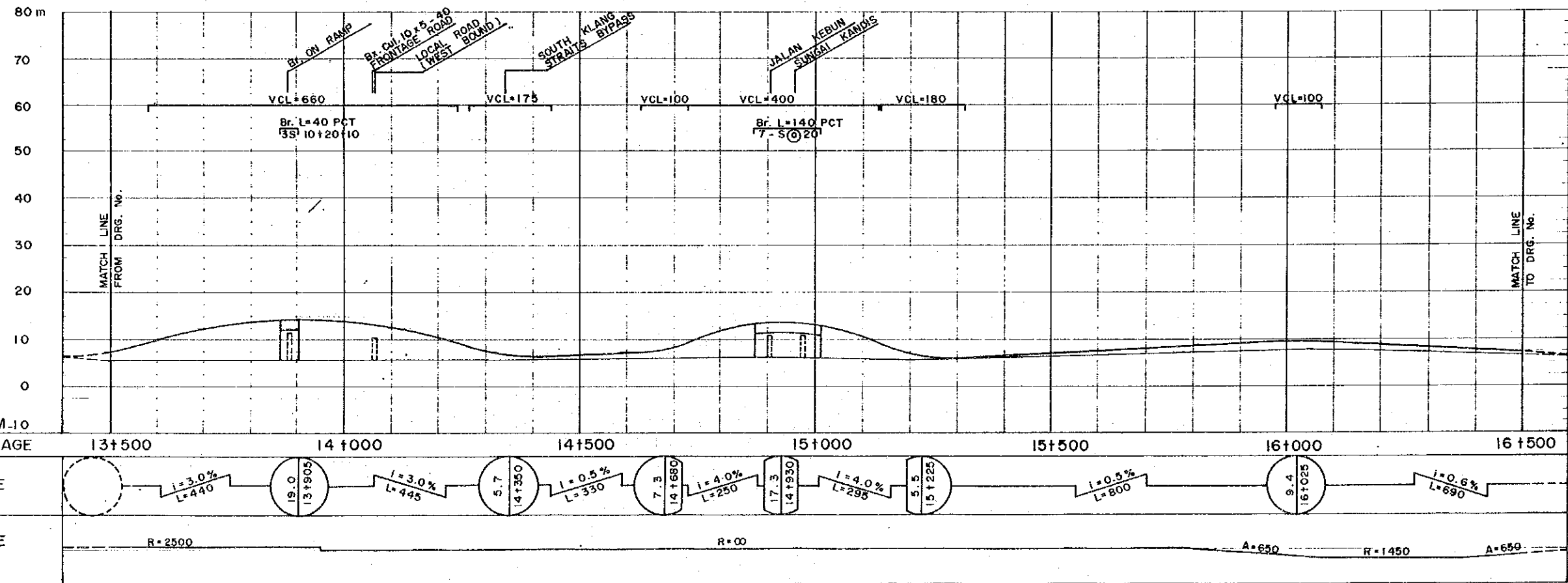
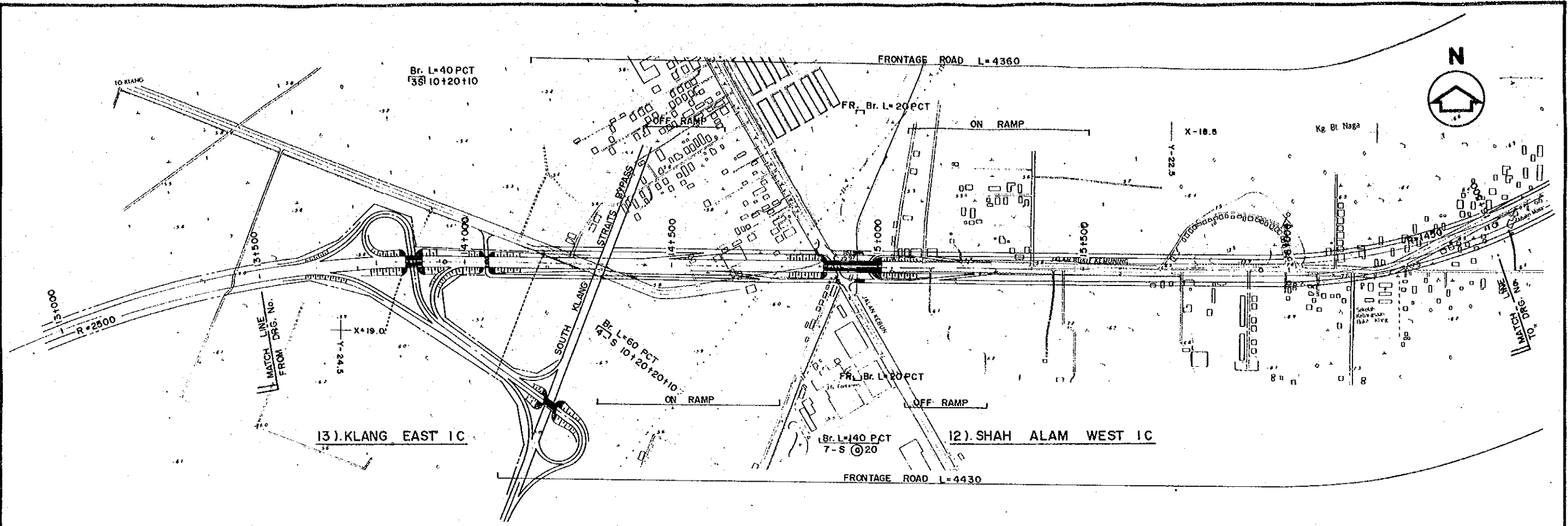
CHAINAGE	10+500	11+000	11+500	12+000	12+500	13+000	13+500
GRADE		7.0 11+020 i=0.5% L=245	5.8 11+265 i=0.5% L=510	8.5 11+775 i=0.4% L=550	6.3 12+325 i=0.5% L=540	9.0 12+865 i=0.5% L=600	6.0 13+465
CURVE BAND	R=∞	A=250	R=500	A=250	R=∞	R=2500	

HIGHWAY PROJECT

SHAH ALAM HIGHWAY : PLAN & PROFILE (5)

SCALE :
 HORIZONTAL :
 VERTICAL :
 DRAWING NO : 27
 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY

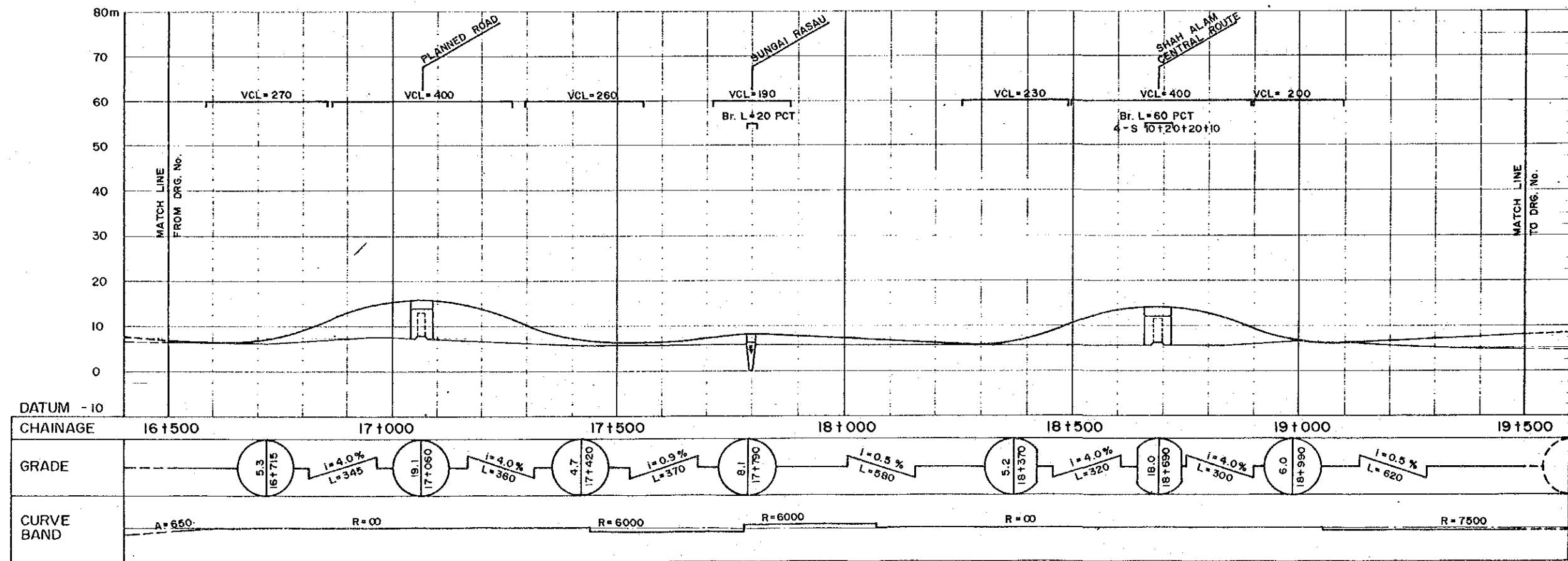
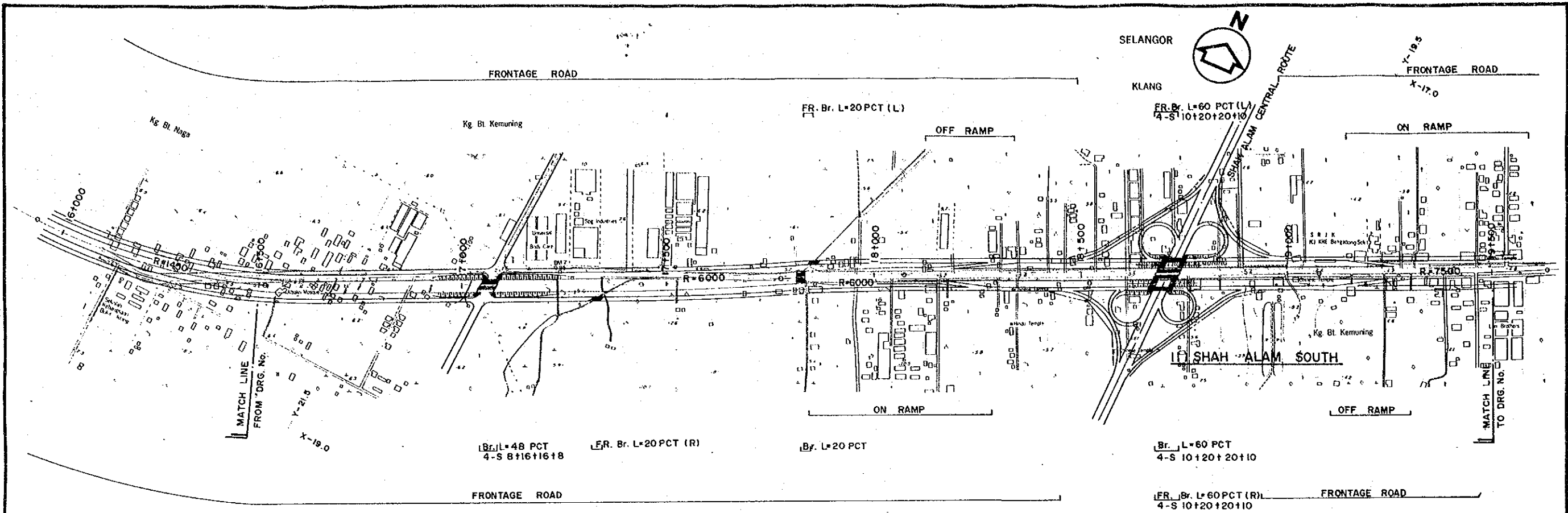


HIGHWAY PROJECT

SHAH ALAM HIGHWAY : PLAN & PROFILE (6)

SCALE :
 HORIZONTAL 1:1000
 VERTICAL 1:100
 DRAWING NO : 28
 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
 JAPAN INTERNATIONAL COOPERATION AGENCY



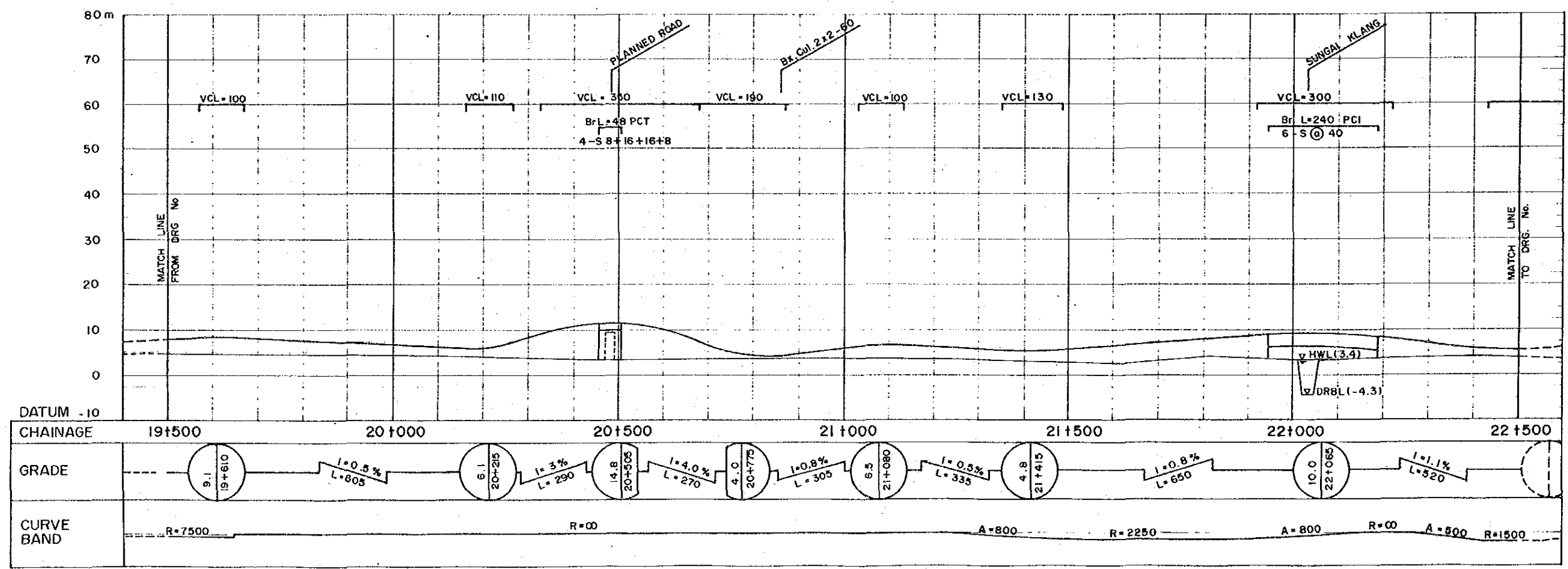
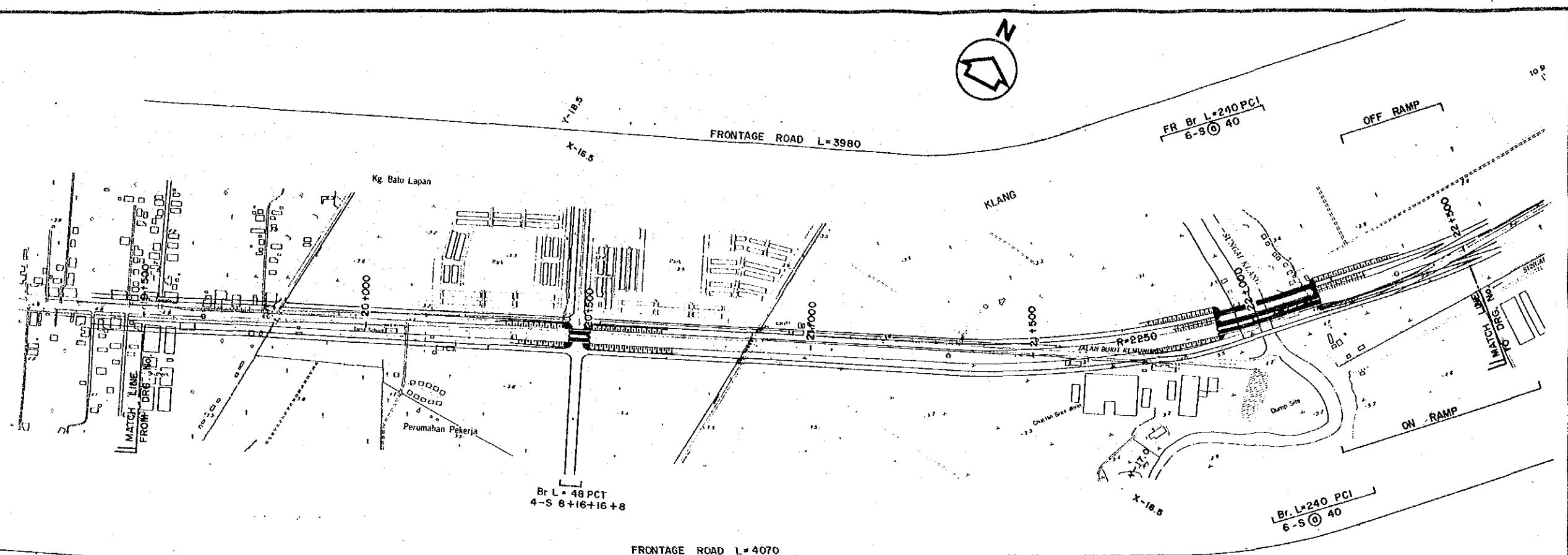
HIGHWAY PROJECT

SHAH ALAM HIGHWAY : PLAN & PROFILE (7)

SCALE :
HORIZONTAL 1:1000
VERTICAL 1:50

DRAWING NO : 29
DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY

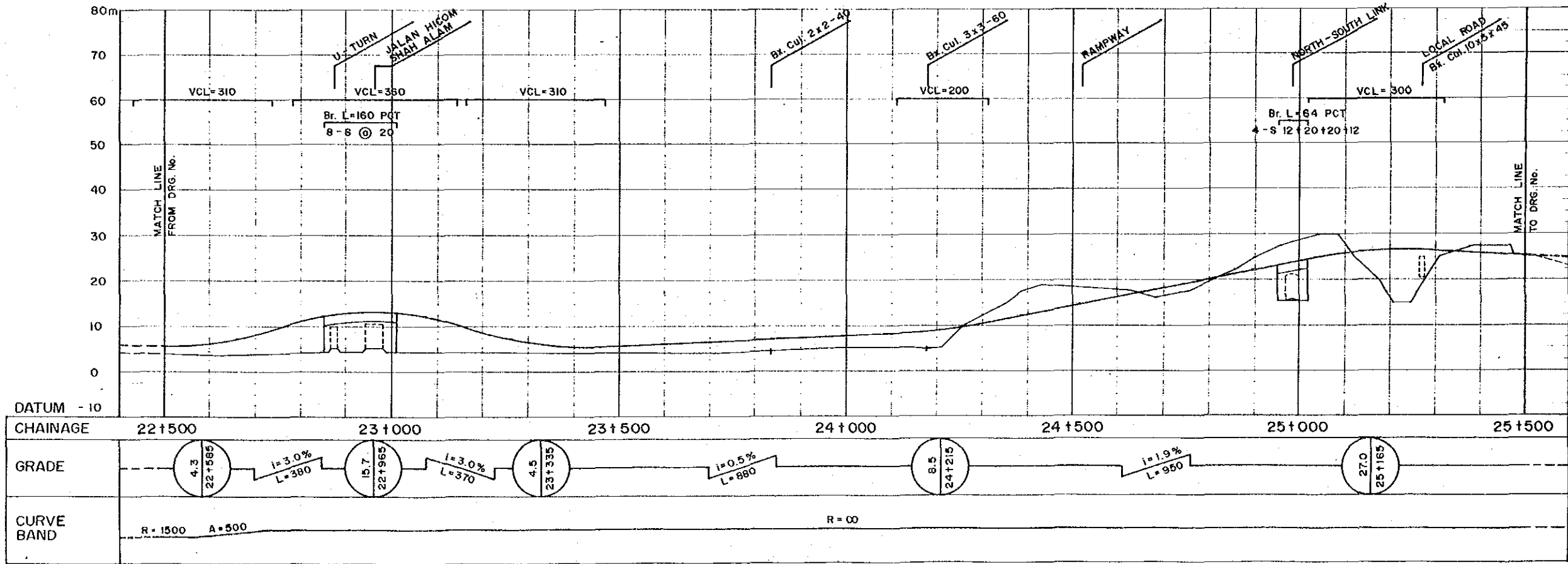
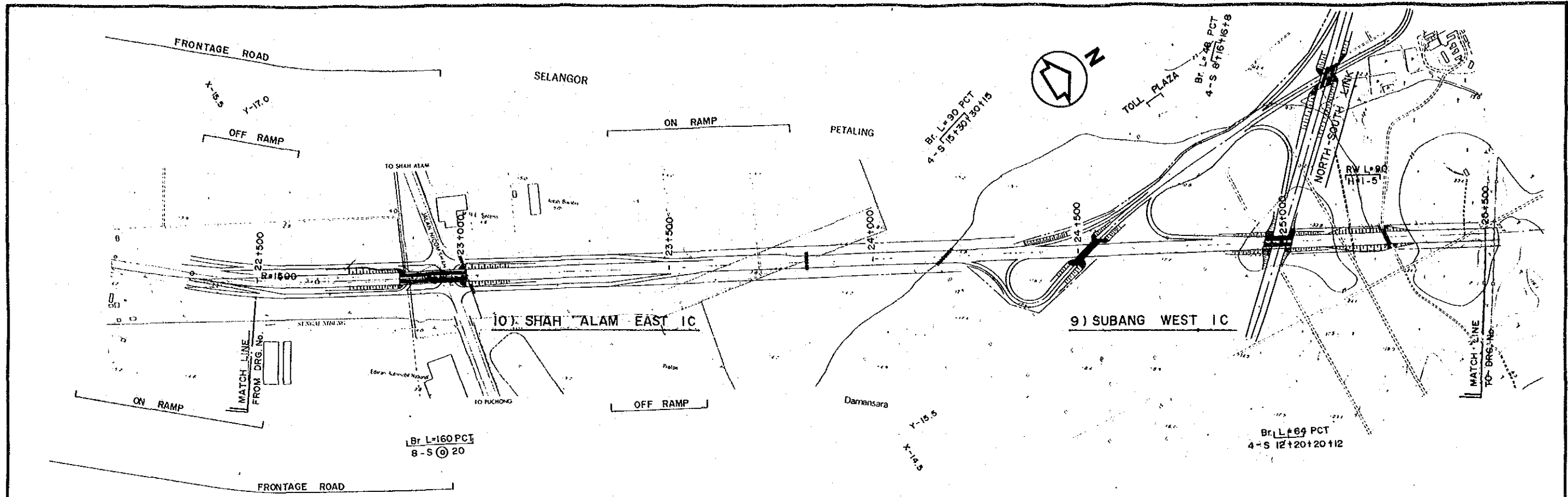


HIGHWAY PROJECT

SHAH ALAM HIGHWAY : PLAN & PROFILE (8)

SCALE :
 HORIZONTAL : metres
 VERTICAL : metres
 DRAWING NO : 30
 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY

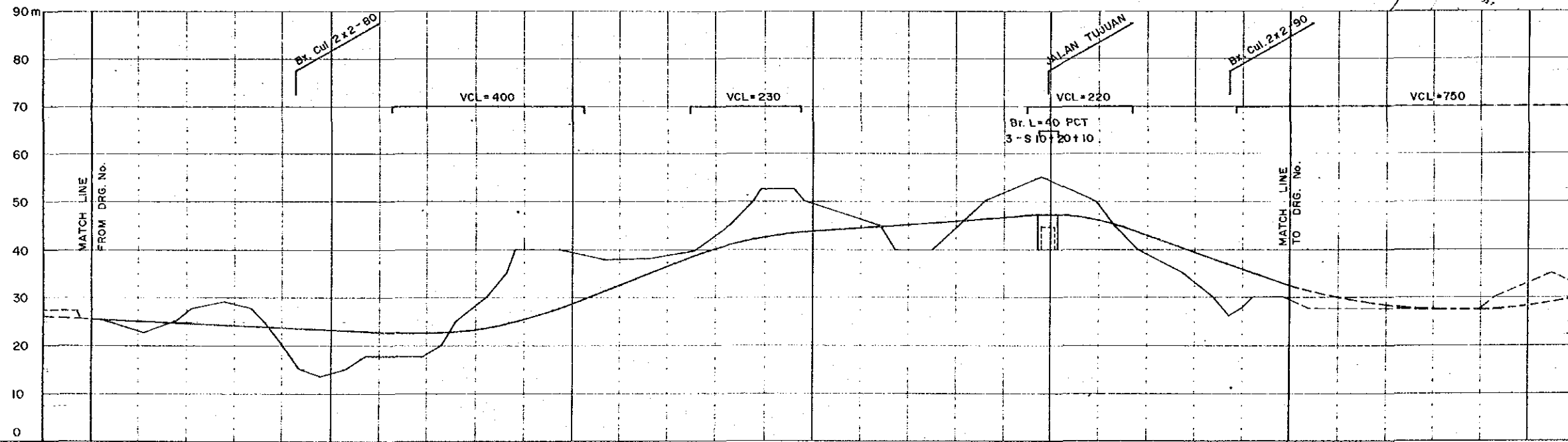
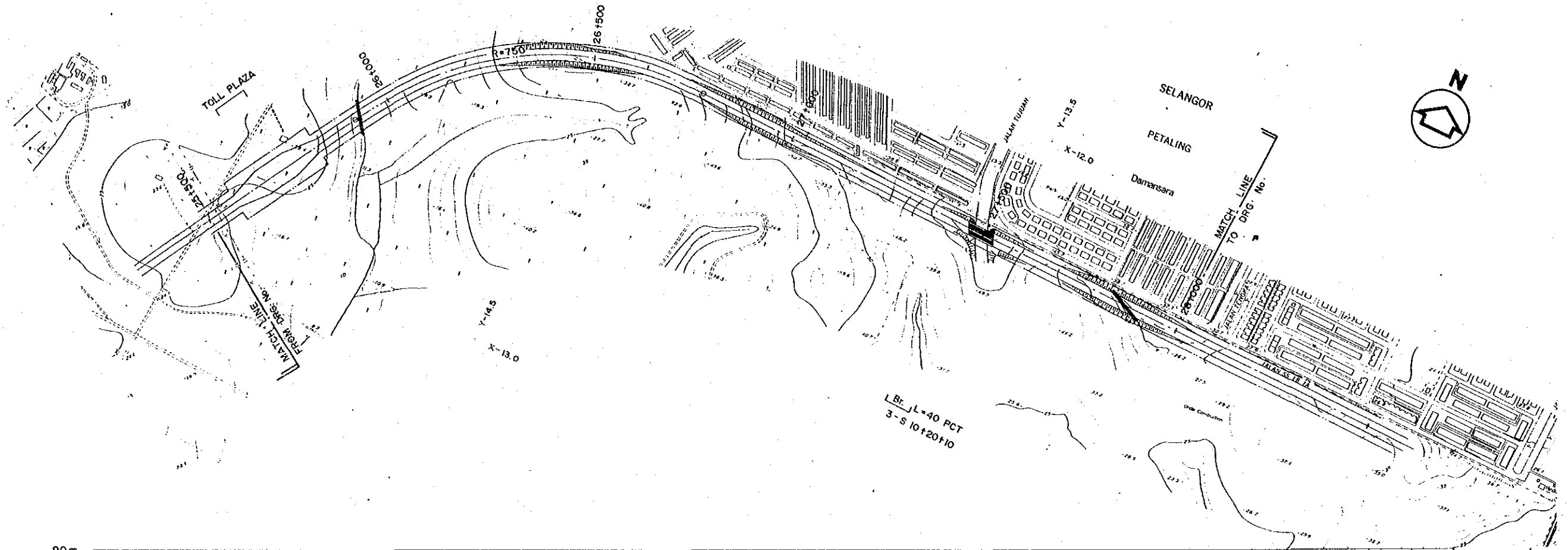


HIGHWAY PROJECT

SHAH ALAM HIGHWAY : PLAN & PROFILE (9)

SCALE :
 HORIZONTAL :
 VERTICAL :
 DRAWING NO : 31
 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY



DATUM	0
CHAINAGE	25+500 26+000 26+500 27+000 27+500 28+000 28+500
GRADE	
CURVE BAND	

HIGHWAY PROJECT

SHAH ALAM HIGHWAY : PLAN & PROFILE (10)

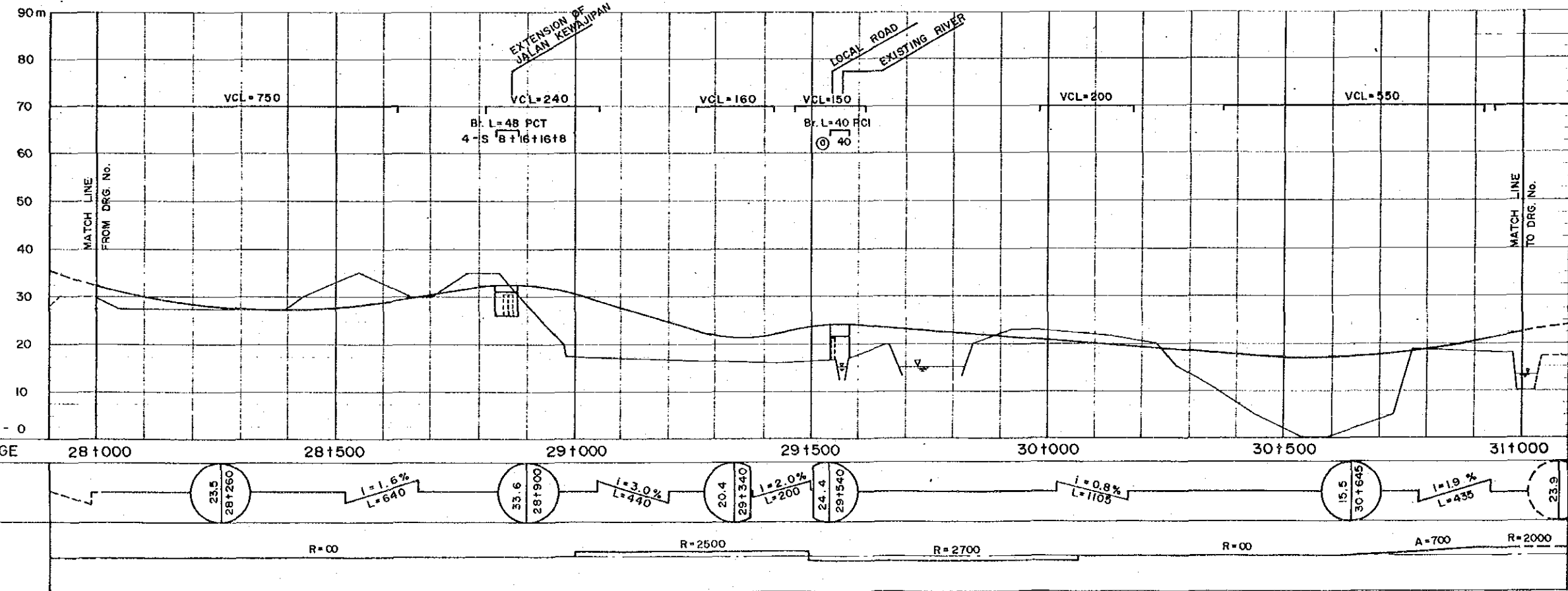
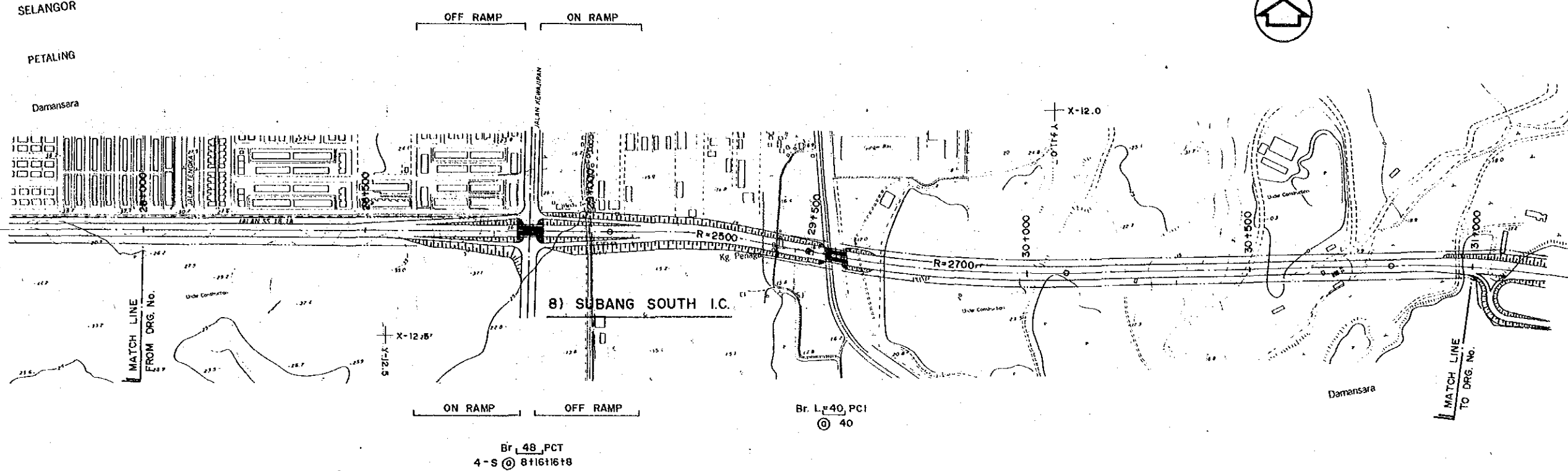
SCALE :
 HORIZONTAL : 1:1000
 VERTICAL : 1:30
 DRAWING NO : 32 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY

SELANGOR

PETALING

Damansara

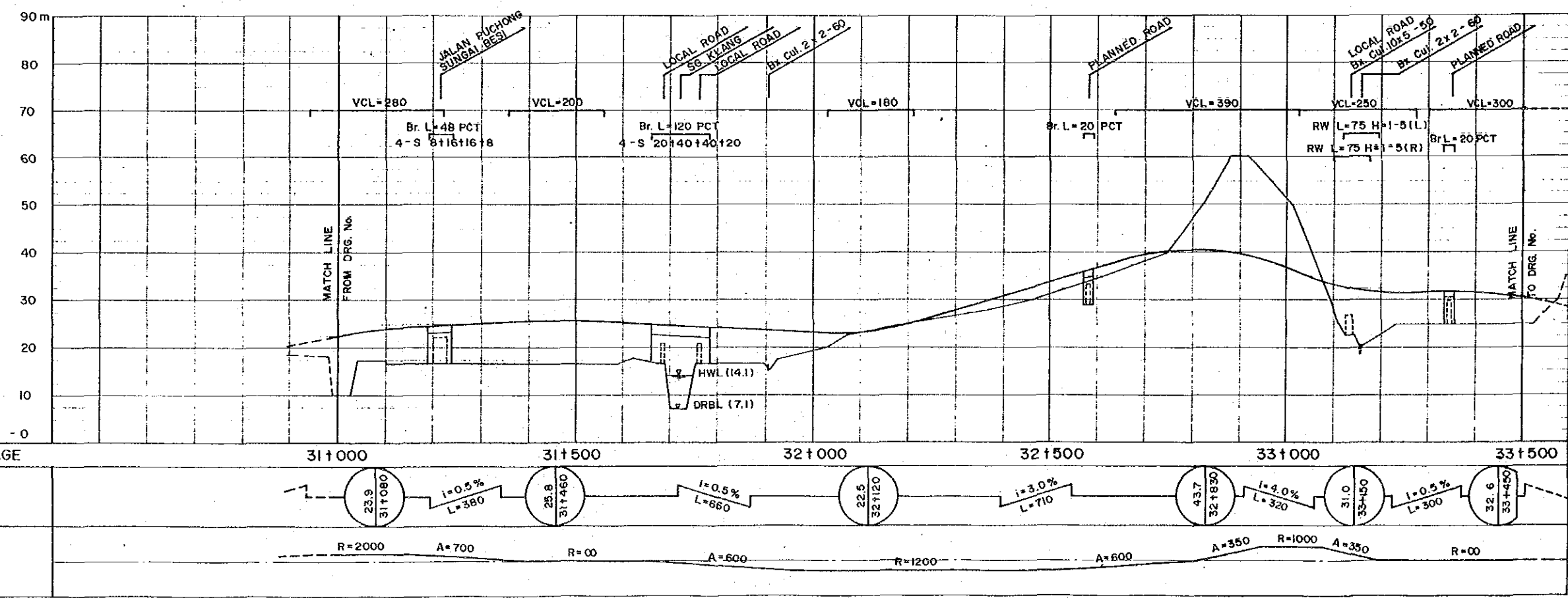
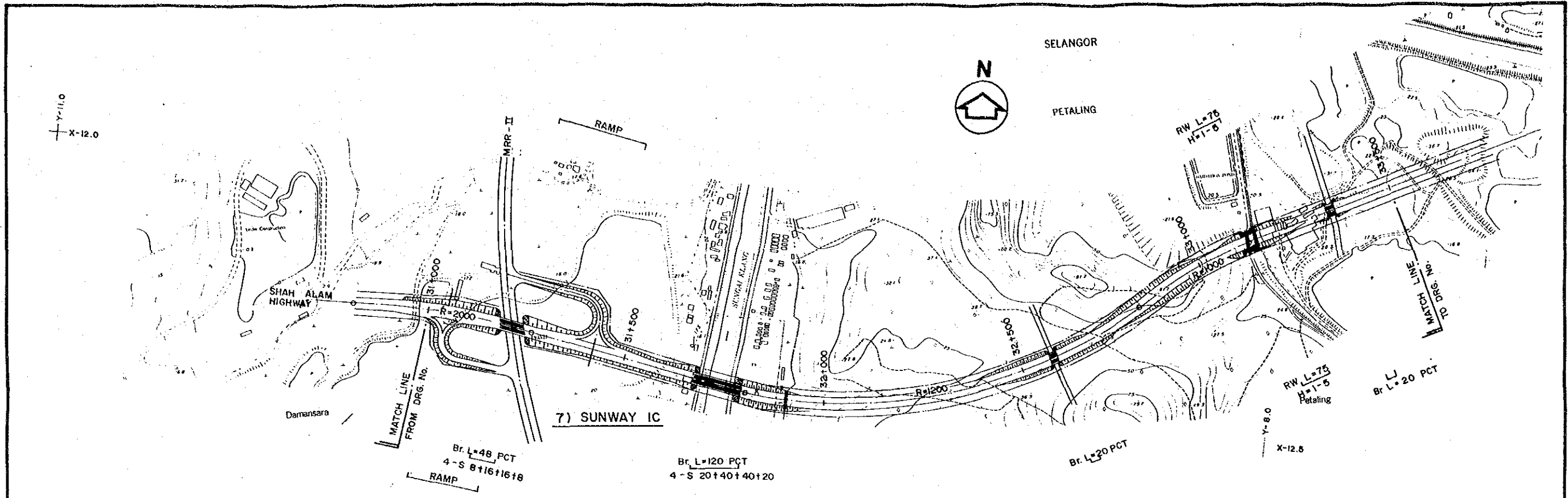


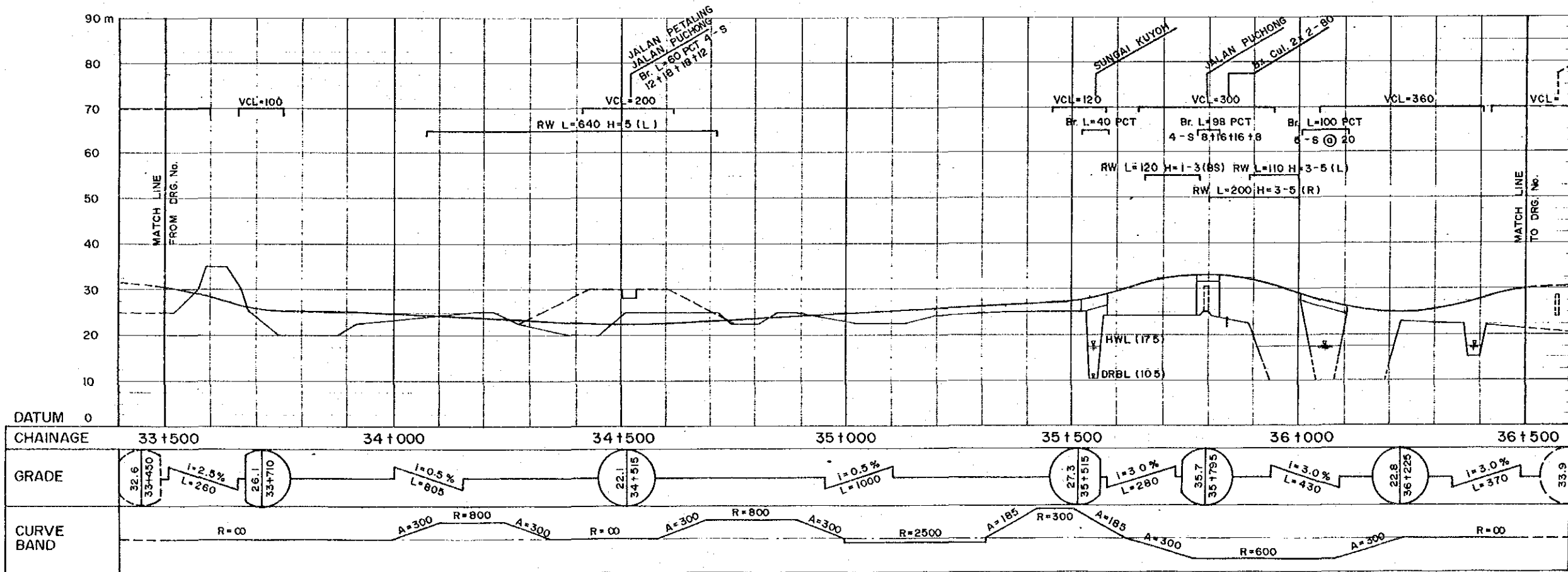
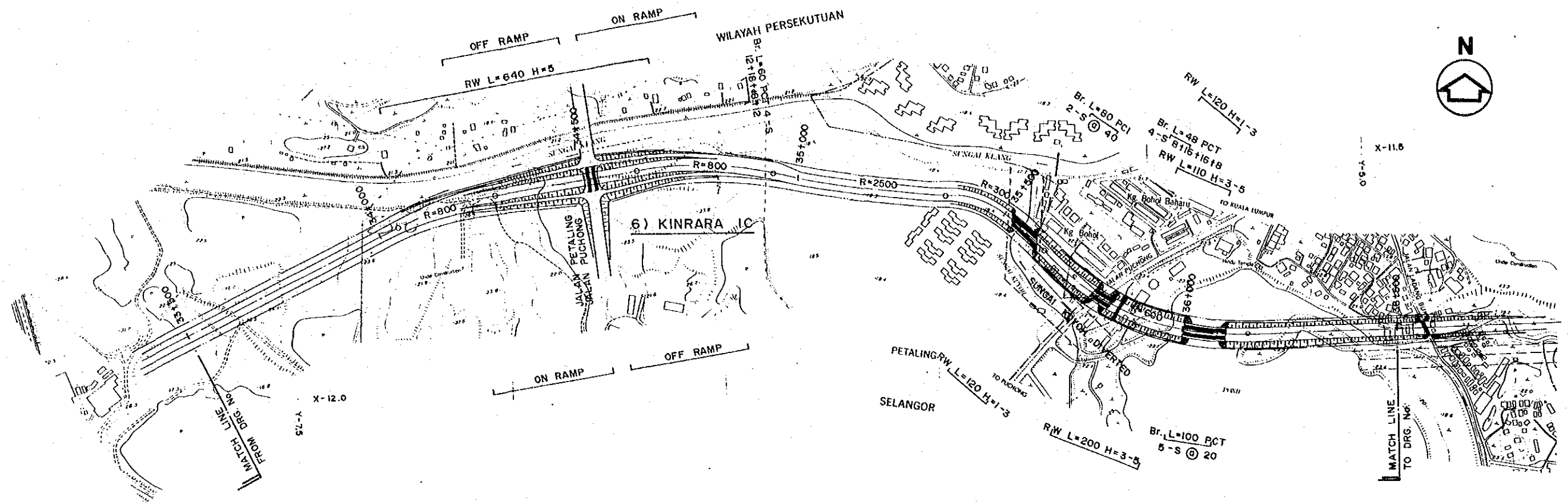
HIGHWAY PROJECT

SHAH ALAM HIGHWAY : PLAN & PROFILE (11)

SCALE :
 HORIZONTAL
 VERTICAL
 DRAWING NO : 33
 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY



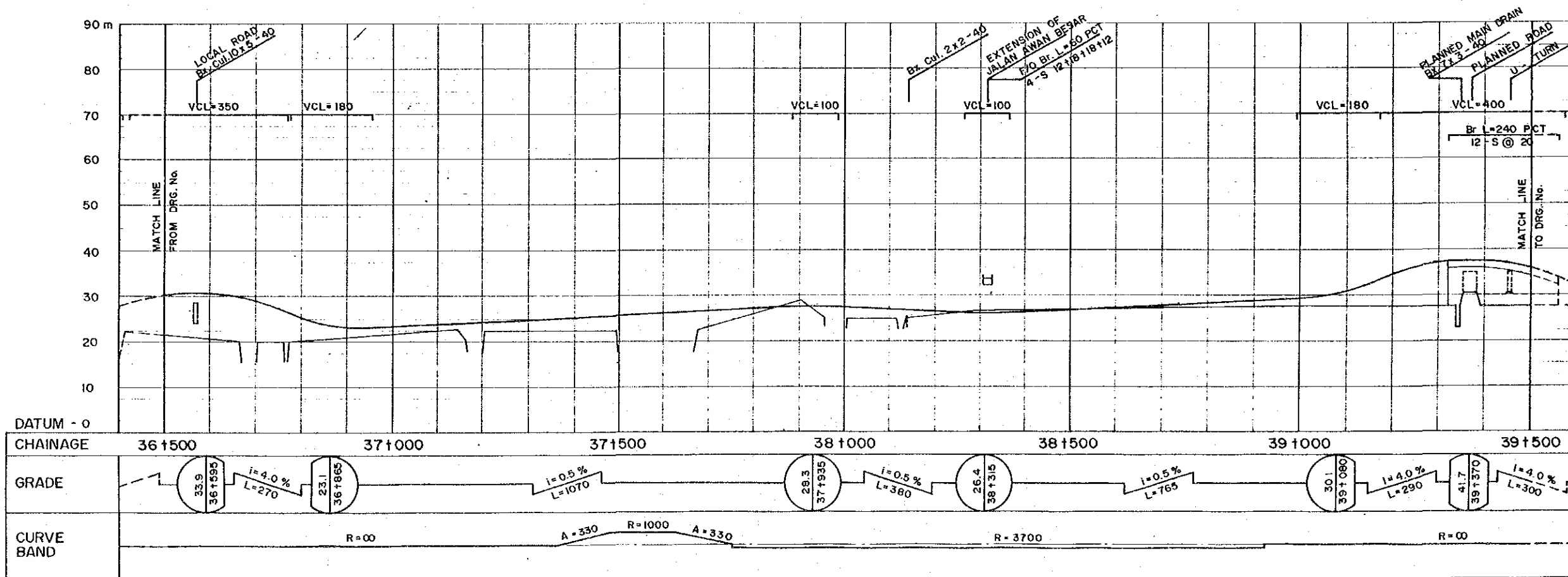
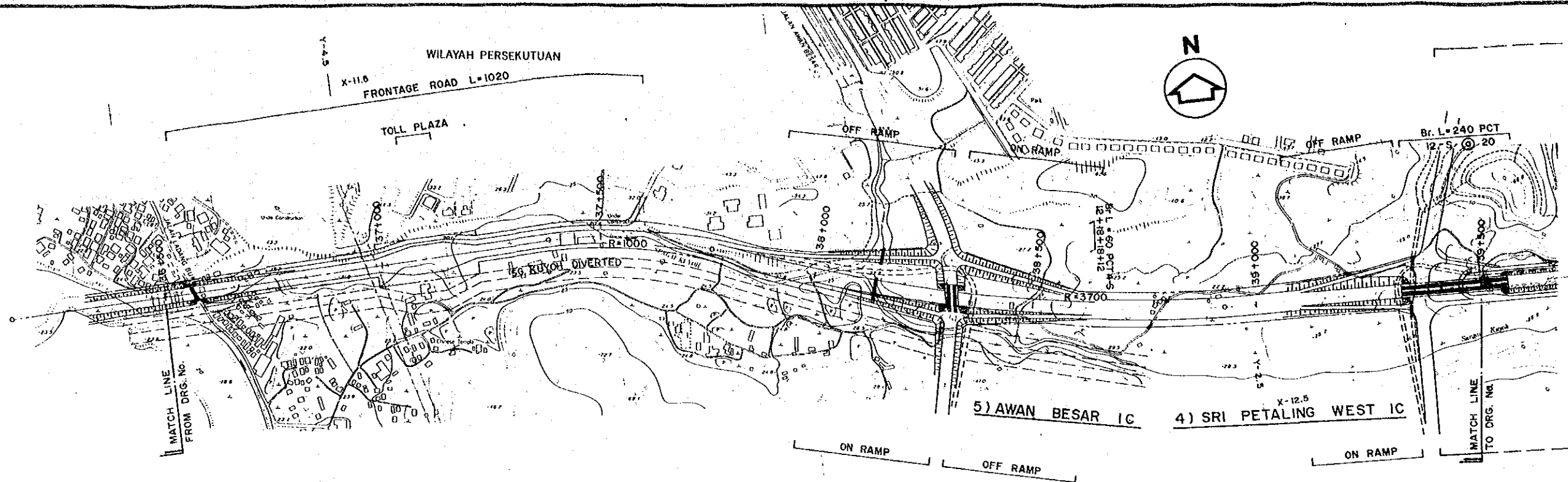


HIGHWAY PROJECT

SOUTHERN PART OF MIDDLE RING ROAD II : PLAN & PROFILE (2)

SCALE :
 HORIZONTAL 1:1000
 VERTICAL 1:100
 DRAWING NO : 35
 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY

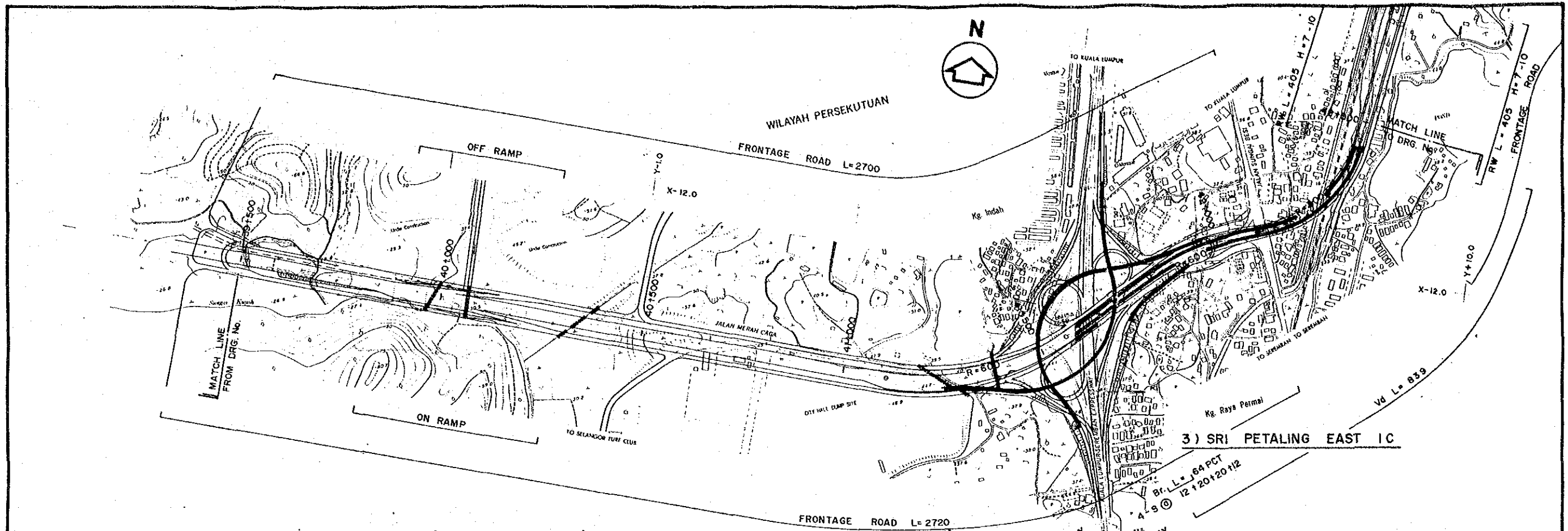


HIGHWAY PROJECT

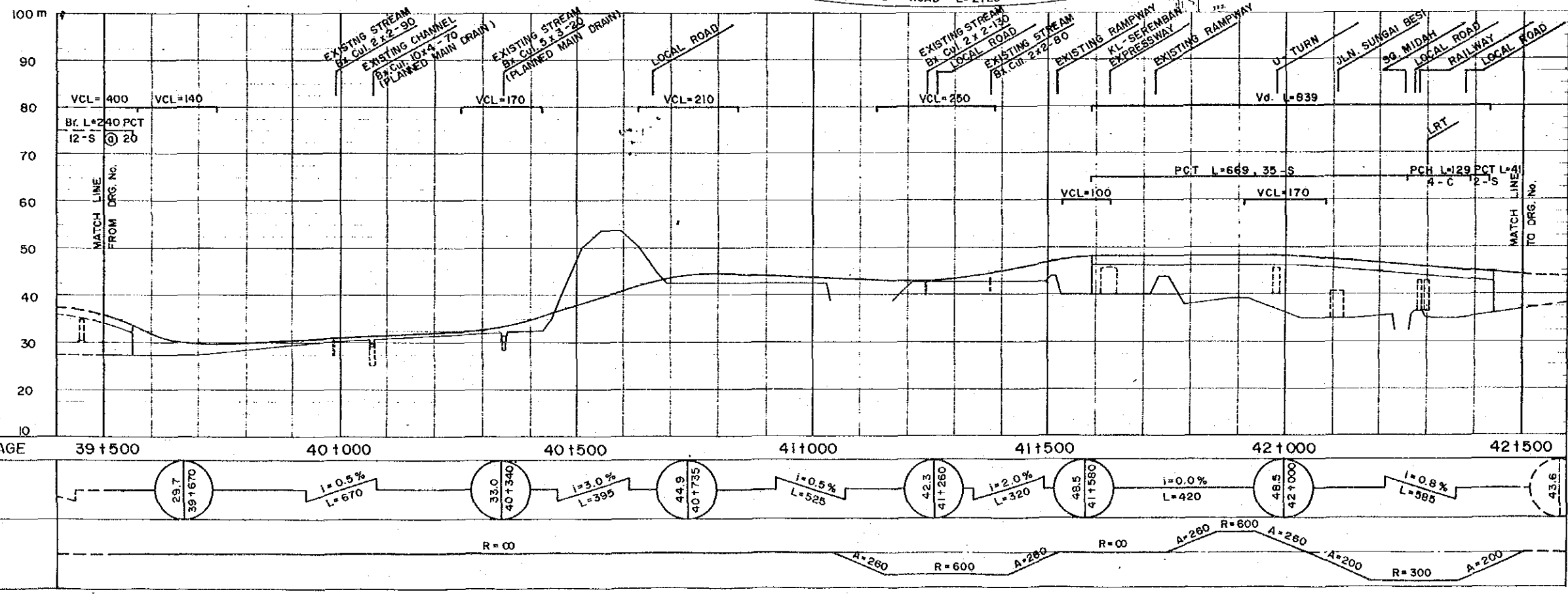
SOUTHERN PART OF MIDDLE RING ROAD II : PLAN & PROFILE (3)

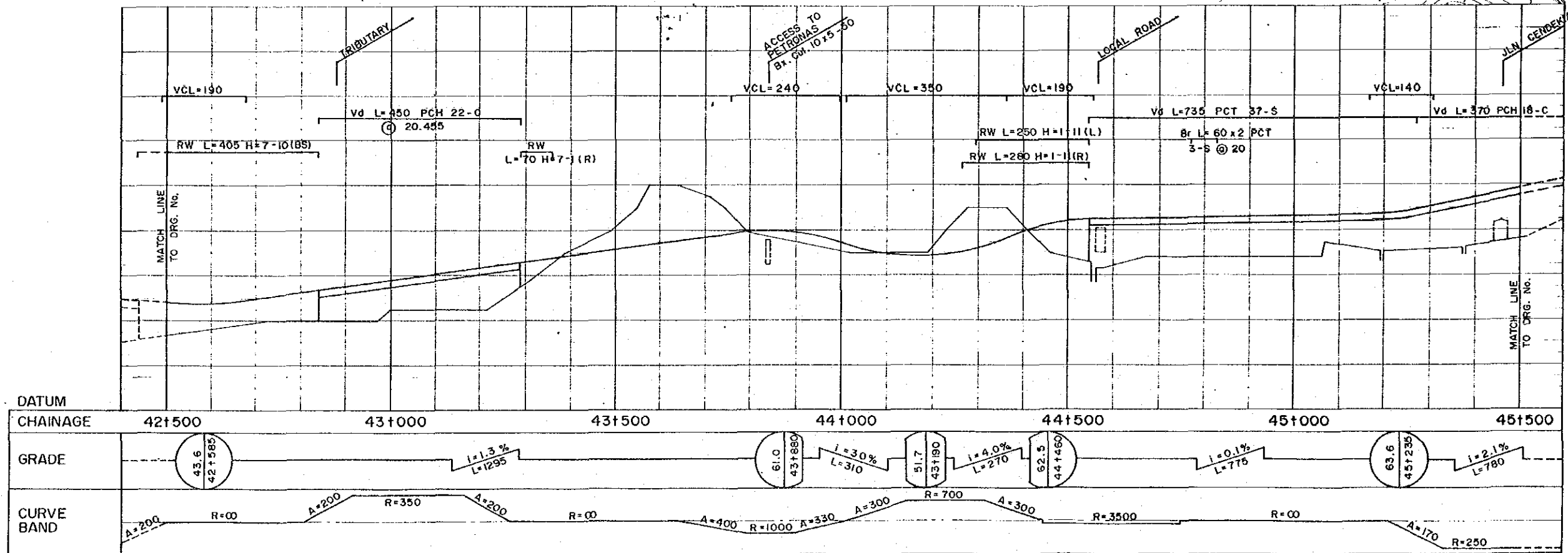
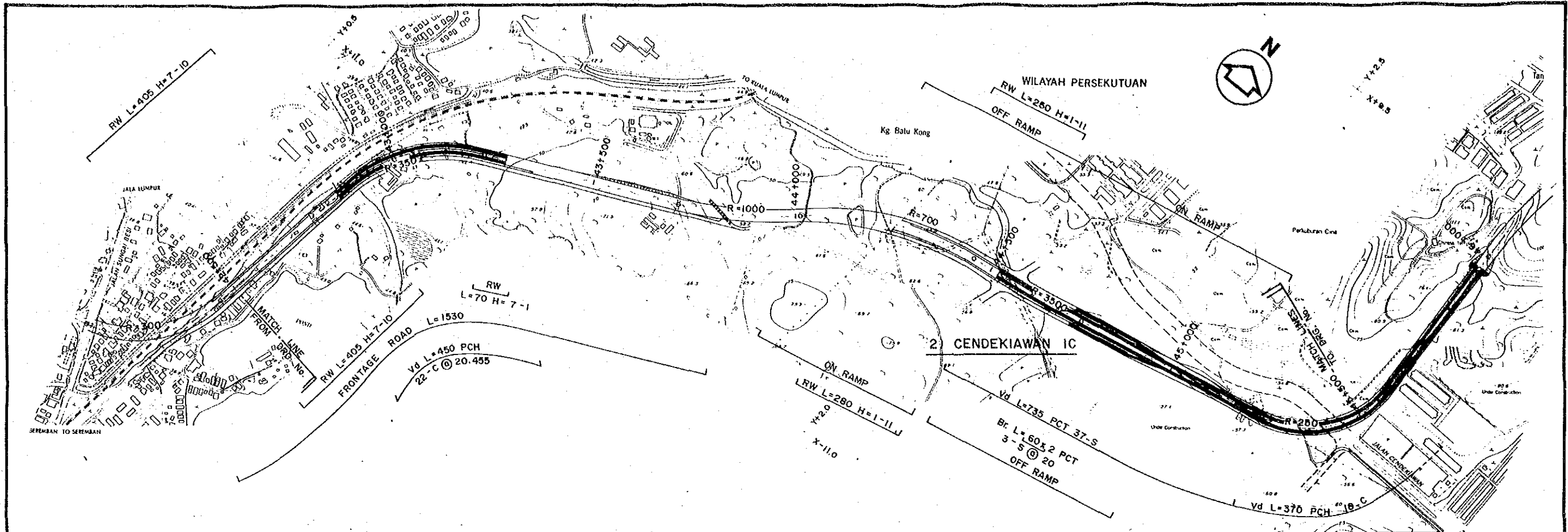
SCALE :
 HORIZONTAL
 VERTICAL
 DRAWING NO : 36 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
 JAPAN INTERNATIONAL COOPERATION AGENCY



3) SRI PETALING EAST IC





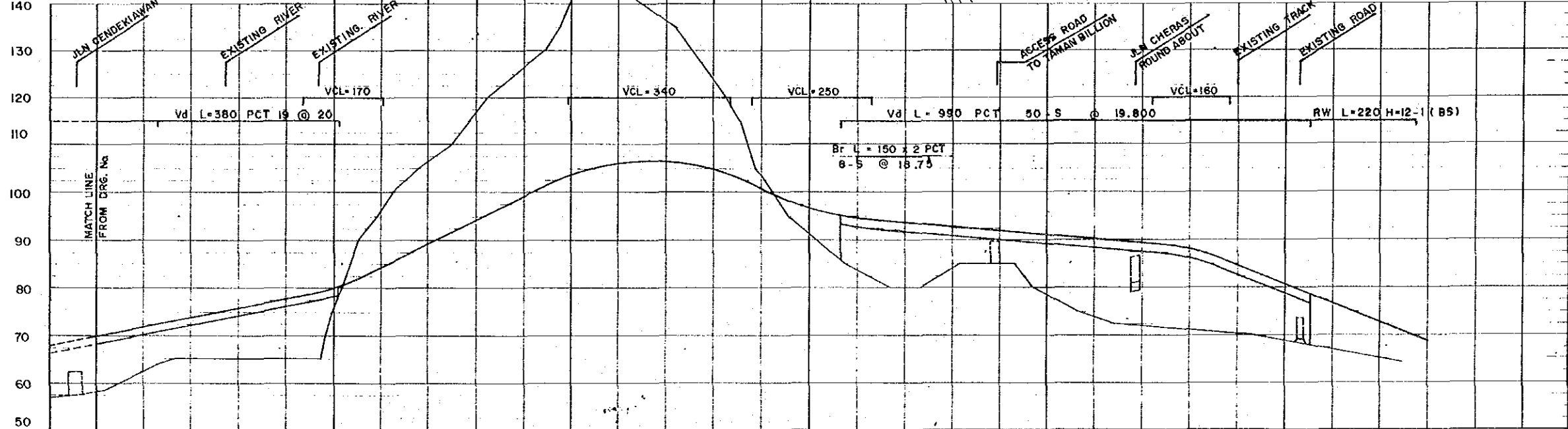
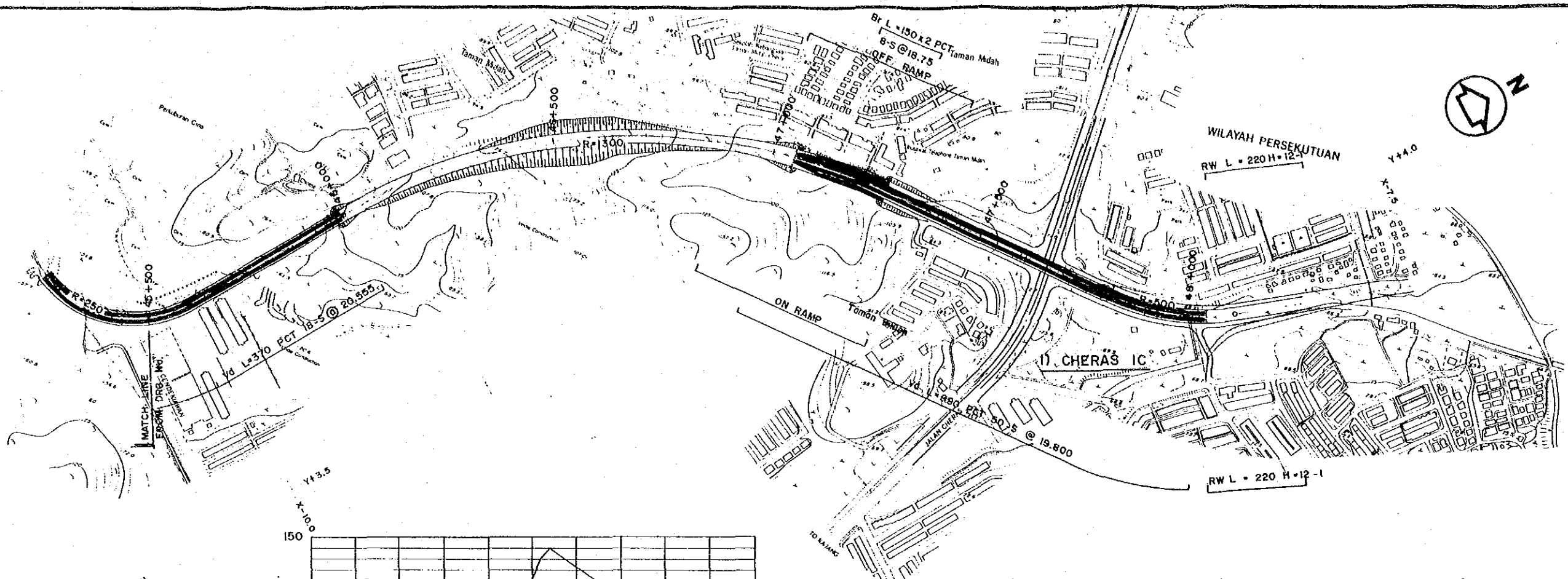
HIGHWAY PROJECT

SOUTHERN PART OF MIDDLE RING ROAD II : PLAN & PROFILE (5)

SCALE :
HORIZONTAL 1:1000
VERTICAL 1:100

DRAWING NO : 38
DATE :

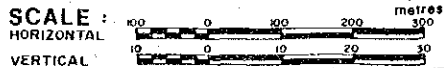
THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY



DATUM	50						
CHAINAGE	45+500	46+000	46+500	47+000	47+500	48+000	
GRADE	1+2.1% L=760		1+5.0% L=650		1+0.9% L=800		1+4.0%
CURVE BAND	R=250 A=170	R=∞ A=500	R=1300 A=500	R=∞ A=240	R=500 A=250	R=∞	

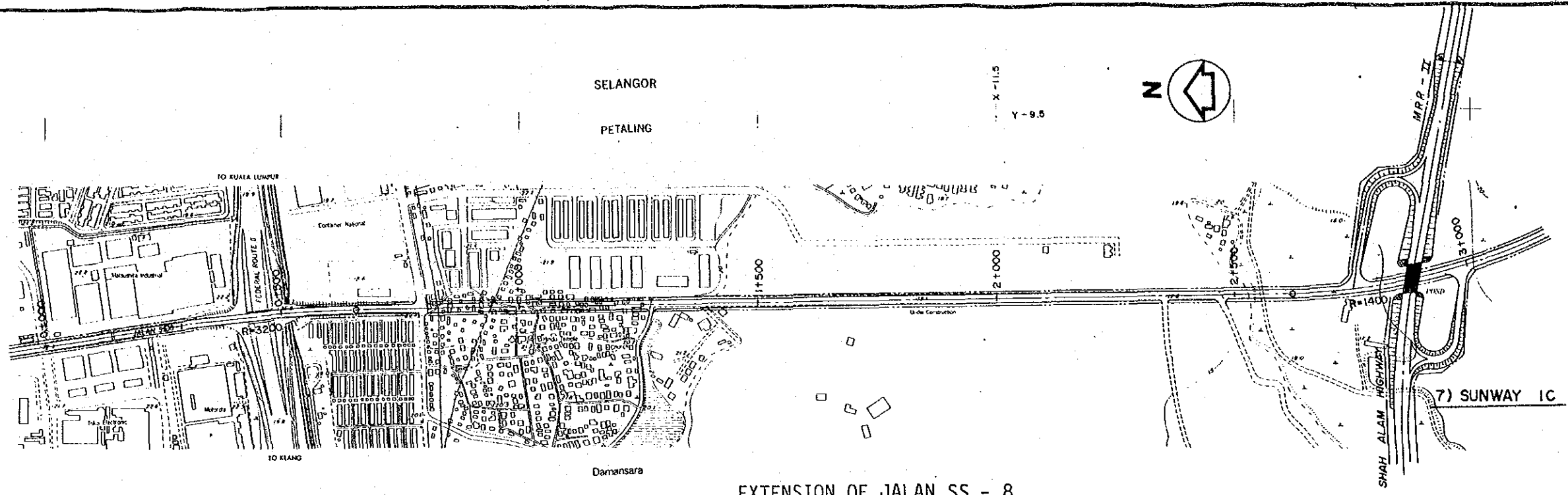
HIGHWAY PROJECT

SOUTHERN PART OF MIDDLE RING ROAD II : PLAN & PROFILE (6)

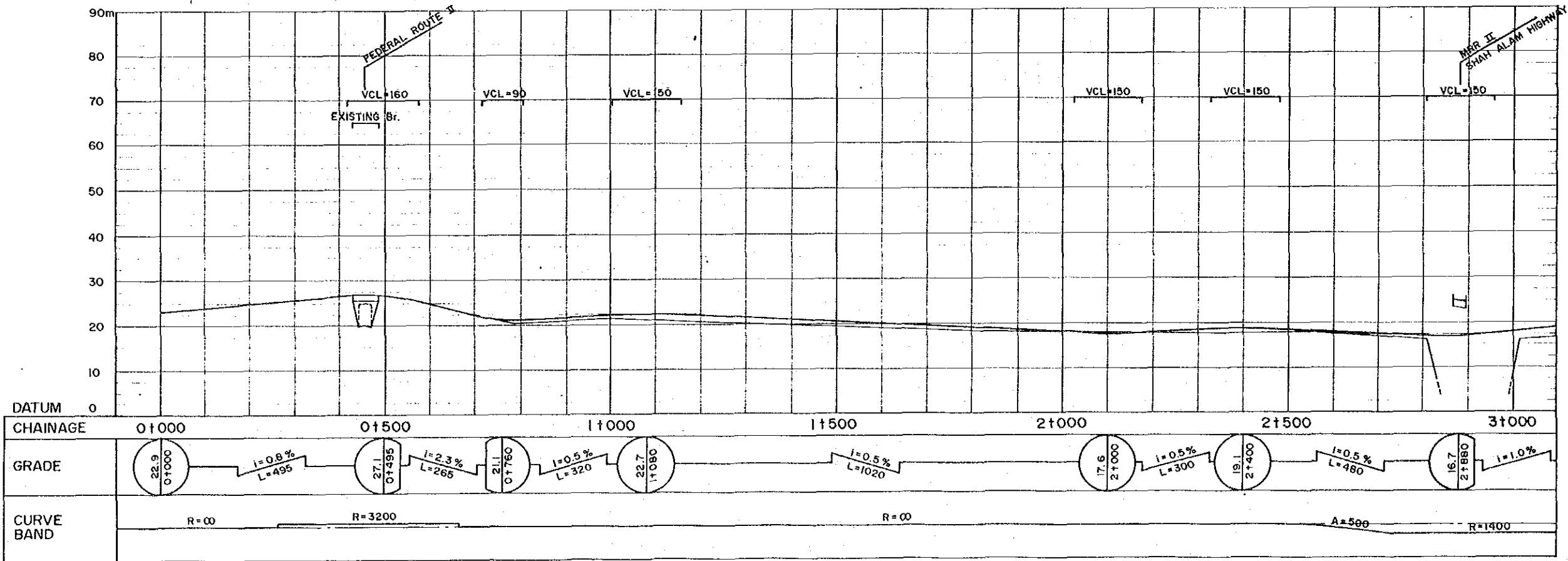


DRAWING NO : 39
 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY



EXTENSION OF JALAN SS - 8



HIGHWAY PROJECT

SOUTHERN PART OF MIDDLE RING ROAD II : PLAN & PROFILE (7)

SCALE :
 HORIZONTAL :
 VERTICAL :
 DRAWING NO : 40
 DATE :

THE FEASIBILITY STUDY ON TRANSPORTATION FACILITIES PROJECTS IN KLANG VALLEY
JAPAN INTERNATIONAL COOPERATION AGENCY