

REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HIGHWAYS

FEASIBILITY STUDY
ON
JAKARTA HARBOUR ROAD PROJECT

FINAL REPORT

DRAWINGS

November 1981

JAPAN INTERNATIONAL COOPERATION AGENCY

SOF

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JAKARTA HARBOUR ROAD PROJECT

FINAL REPORT

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国際協力事業団	
輸入 1984.10.27	D108
登録No. 109196	61.4 SDF

DRAWING SCHEDULE

INDEX OF SHEETS	SCALE	TOTAL NUMBER OF SHEET
MAP OF INDONESIA	1 : 17,500,000	1
MAP OF JAVA AND MADURA	1 : 4,000,000	1
MAP OF PROJECT AREA	1 : 240,000	1
MAP OF PROJECT ROAD	1 : 60,000	1
TYPICAL CROSS SECTIONS	1 : 200	5
PLANS AND PROFILES	H = 1 : 10,000 V = 1 : 1,000	8
JUNCTIONS AND INTERCHANGES	1 : 5,000	19
STRUCTURES	1 : 2,000 1 : 1,000	15
INTERSECTIONS	1 : 1,500	4
	TOTAL	55

JICA LIBRARY

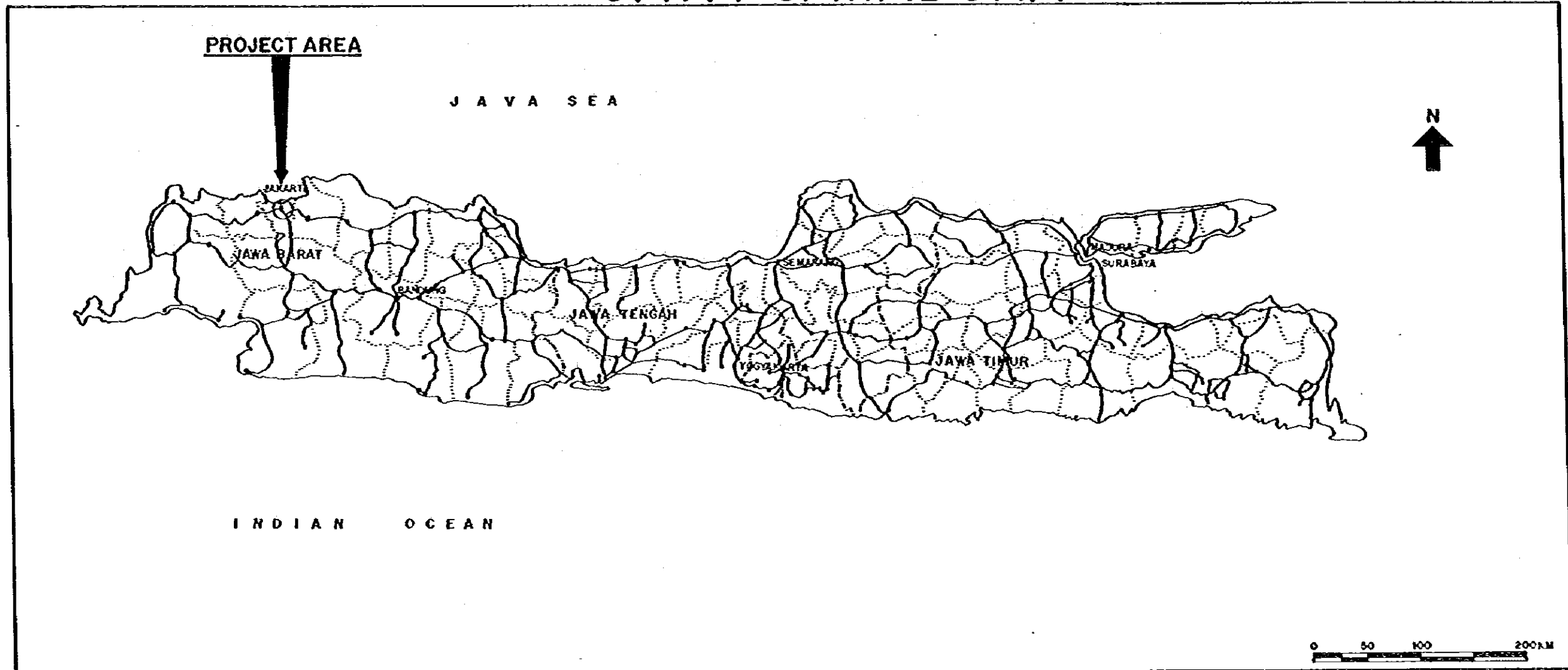


1034330(9)

INDONESIA

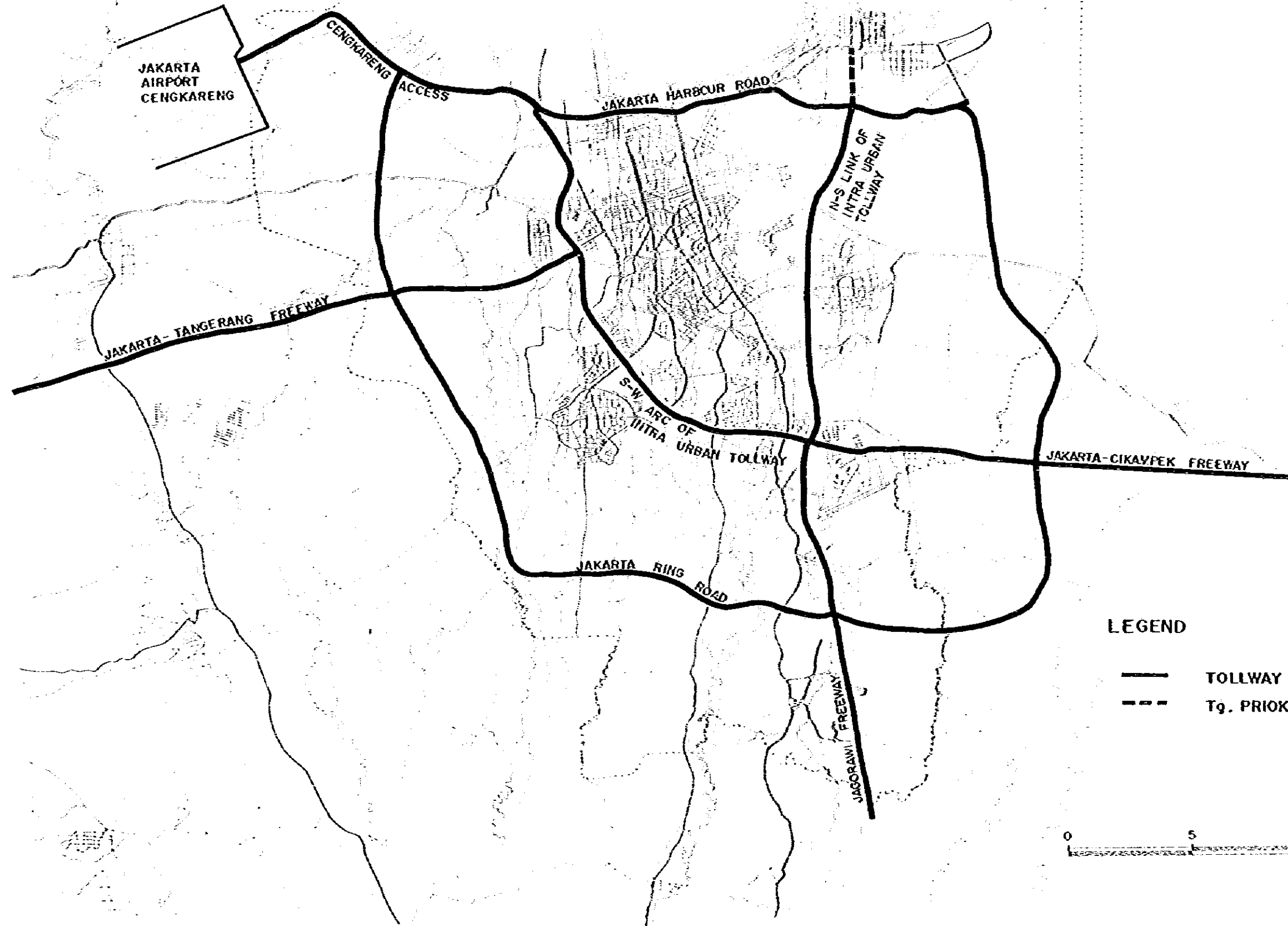


JAVA & MADURA



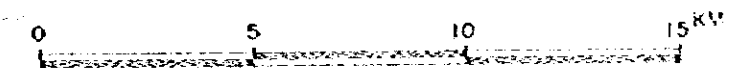
PROJECT	PROJECT CODE / FR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	1	1
MAP OF PROJECT AREA		SCALE 1: 240,000		

MAP OF PROJECT AREA



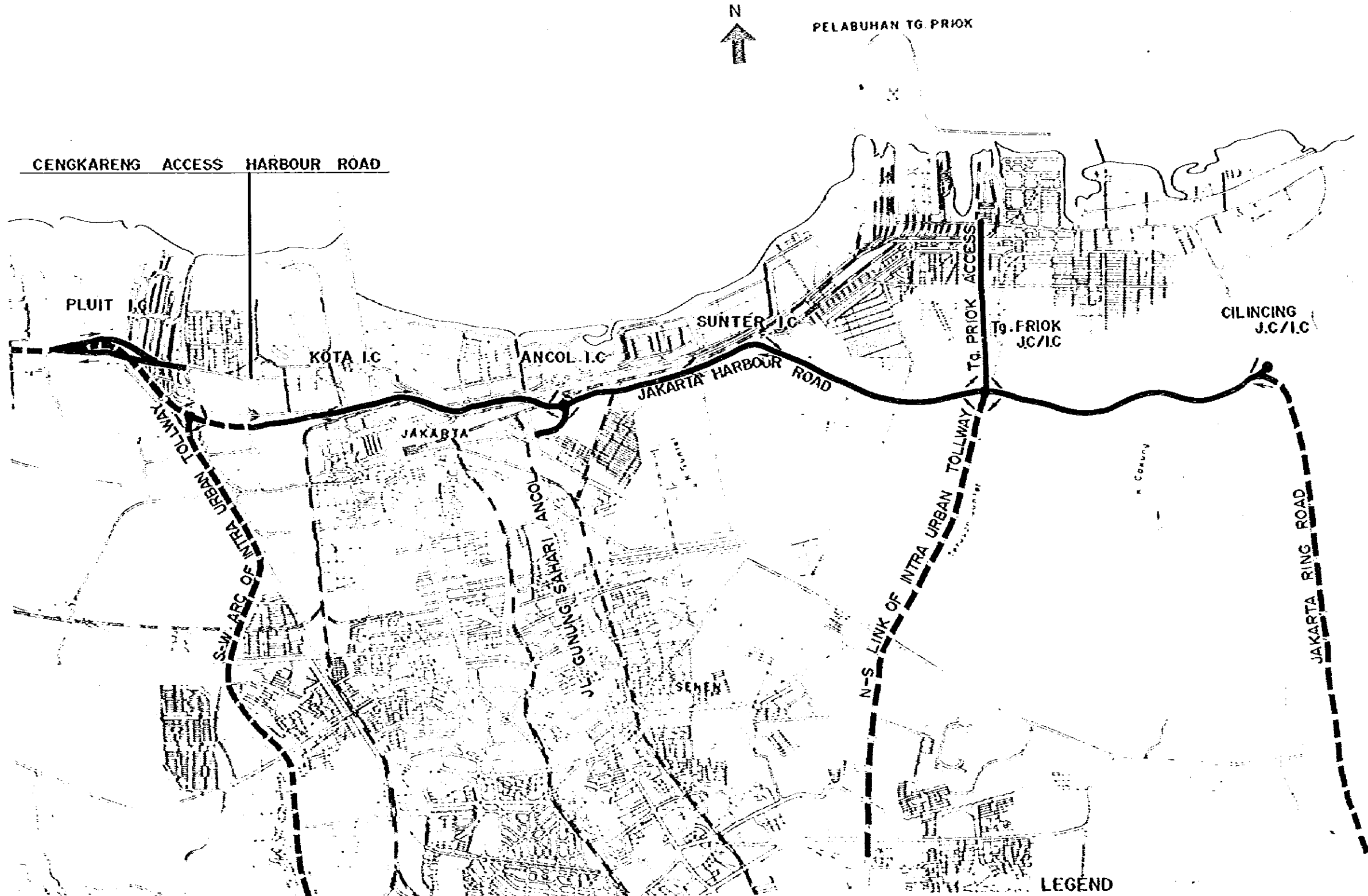
LEGEND

- TOLLWAY
- - - Tg. PRIOK ACCESS






PROJECT	PROJECT CODE / YR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	1	1
MAP OF PROJECT ROAD				SCALE 1:60,000

MAP OF PROJECT ROAD



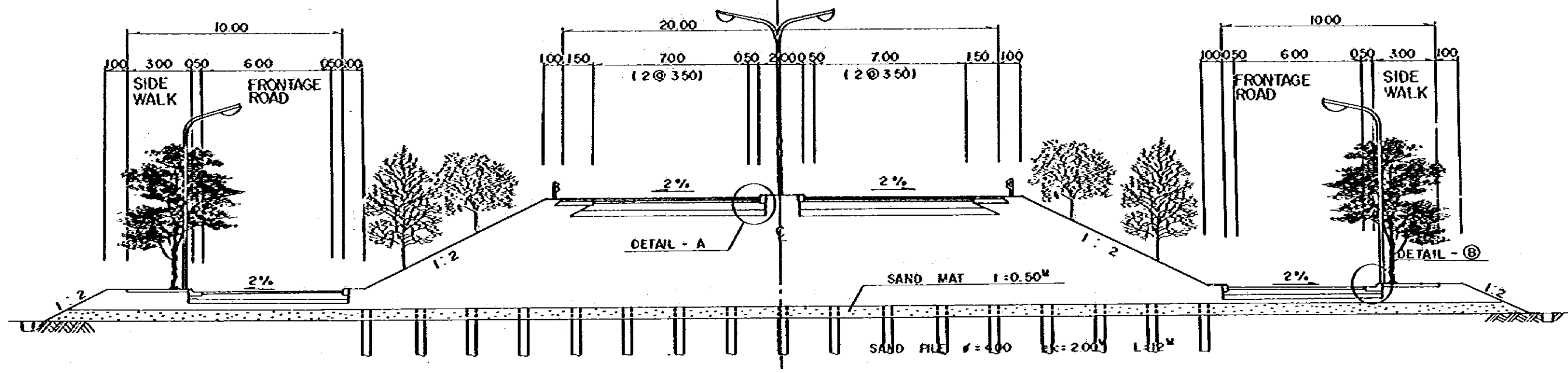
LEGEND

-  ON-RAMP
-  OFF-RAMP
-  JUNCTION/INTERCHANGE

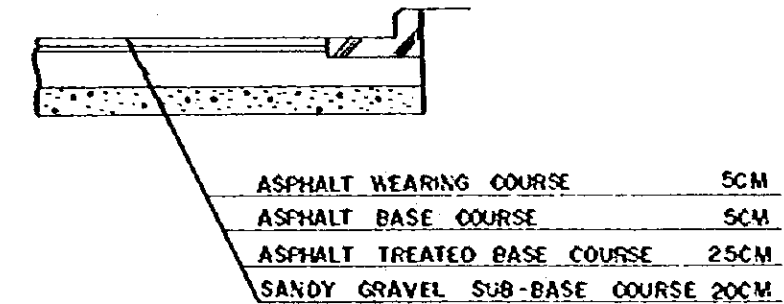
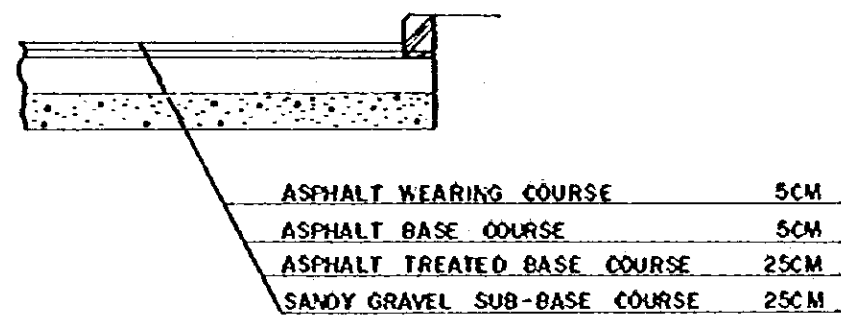
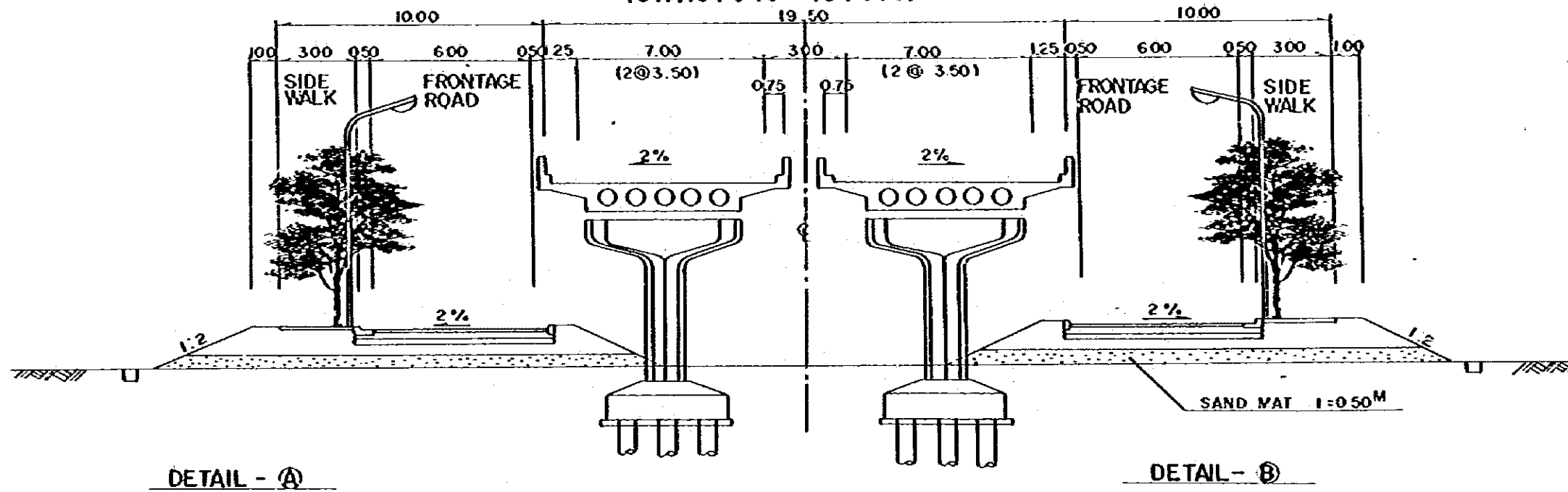
HARBOUR ROAD (1)
S = 1 : 200

KEL. PENJARINGAN (ULTIMATE STAGE)
(STA 14+630 ~ 15+500)

PROJECT	PROJECT CODE / YR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	1	5
TYPICAL CROSS SECTION (HARBOUR ROAD)				



KOTA (ULTIMATE STAGE)
(STA 16+040 ~ 16+600)

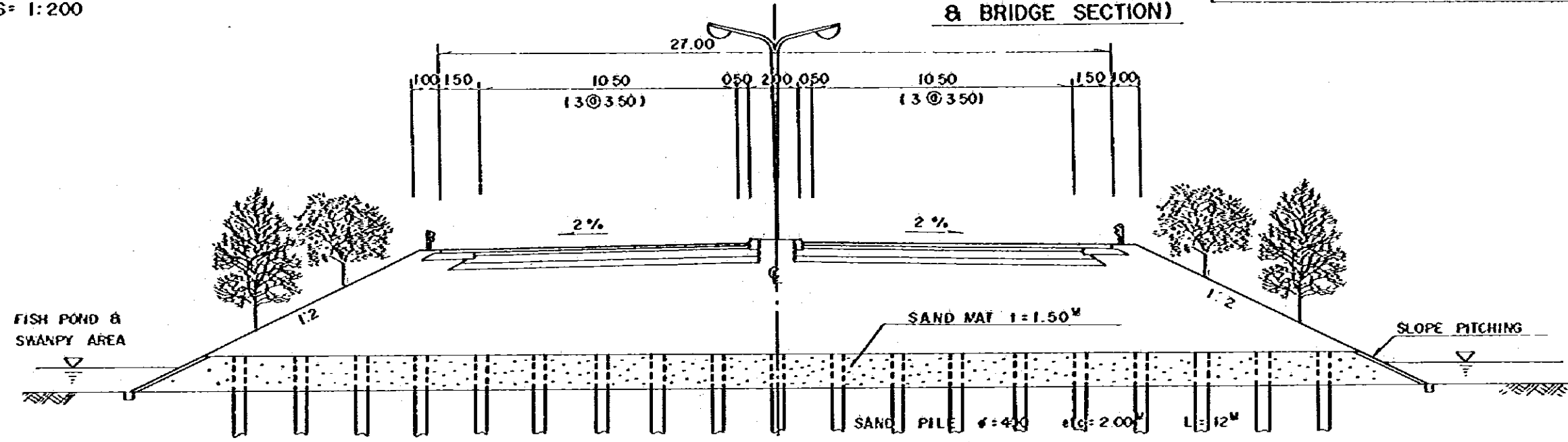


HARBOUR ROAD (2)

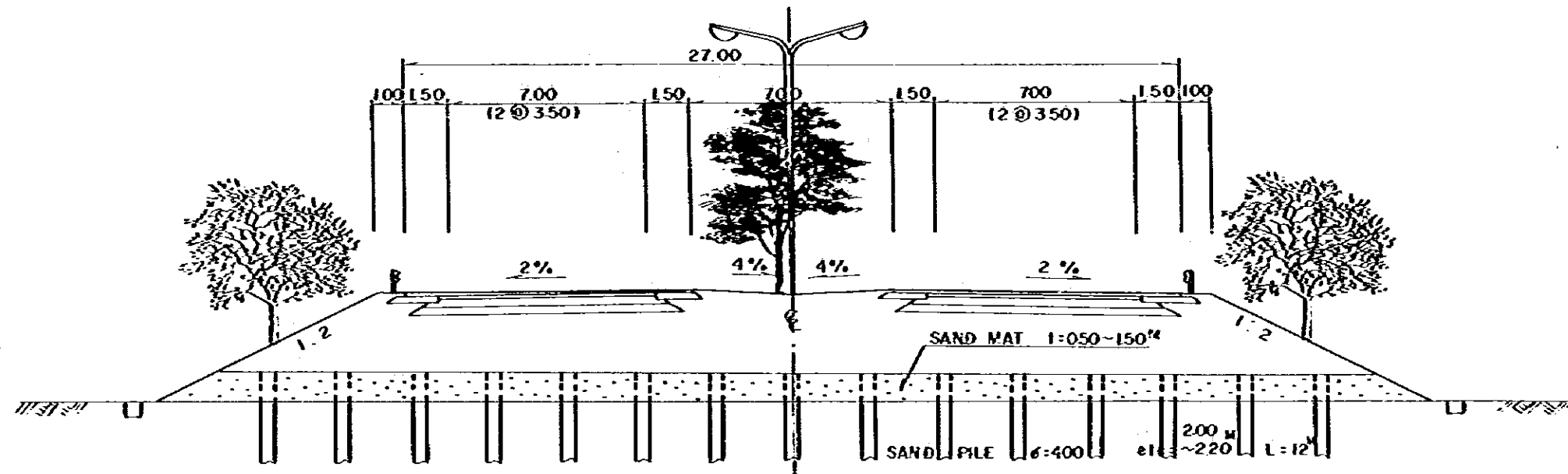
S= 1:200

KOTA EAST IC ~ CILINCING JC/IC (ULTIMATE STAGE, EXCEPT INTERCHANG & BRIDGE SECTION)

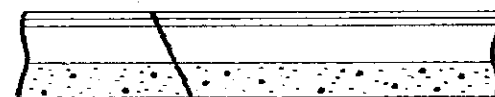
PROJECT	PROJECT CODE / IIR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	2	5
TYPICAL CROSS SECTION (HARBOUR ROAD)				



KOTA EAST IC ~ CILINCING JC/IC (INITIAL STAGE, EXCEPT INTERCHANGE & BRIDGE SECTION)



PAVEMENT



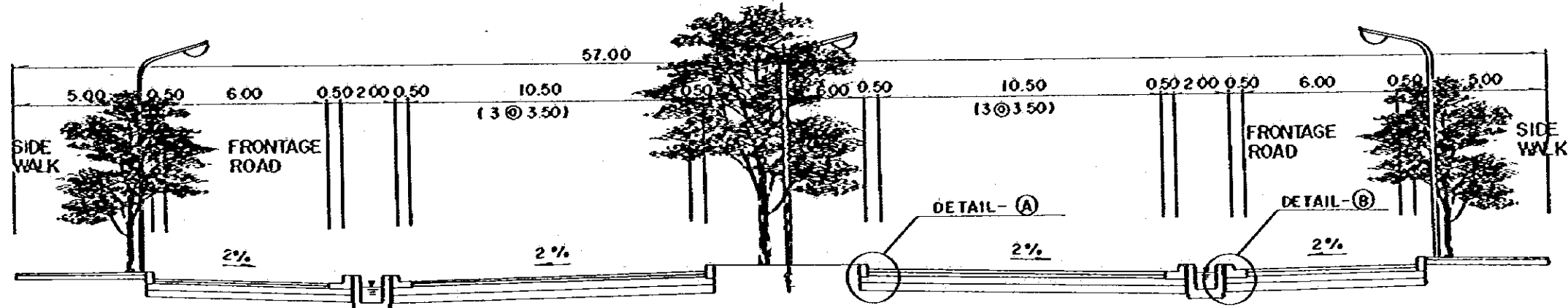
ASPHALT WEARING COURSE	5CM
ASPHALT BASE COURSE	5CM
ASPHALT TREATED BASE COURSE	25CM
SANDY GRAVEL SUB-BASE COURSE	25CM

Tg. PRIOK ACCESS (1)

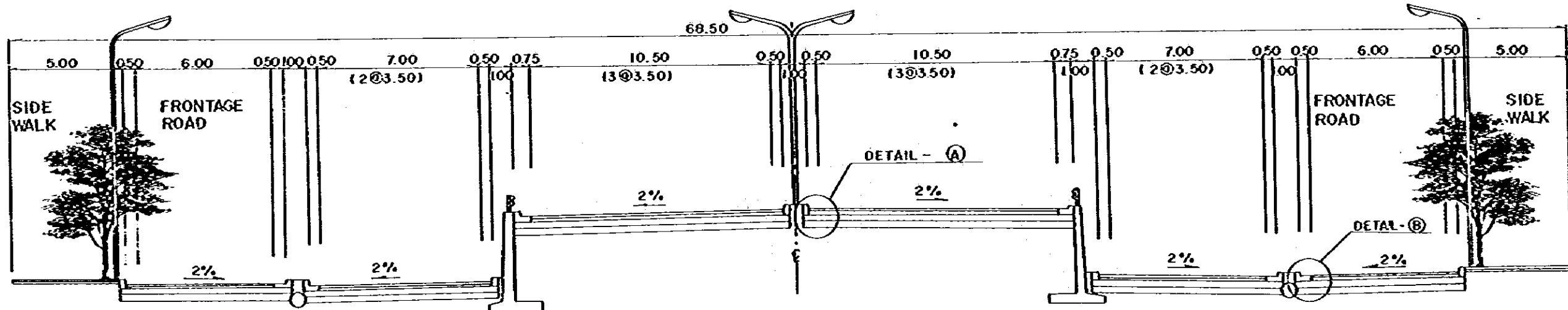
S = 1 : 200

PROJECT	PROJECT CODE / I/R	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	3	5
TYPICAL CROSS SECTION (Tg. PRIOK ACCESS)				

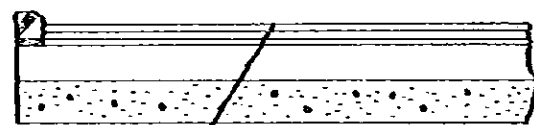
STA. 0+800~1+800



FLY-OVER APPROACH SECTION AT JL. MELATI

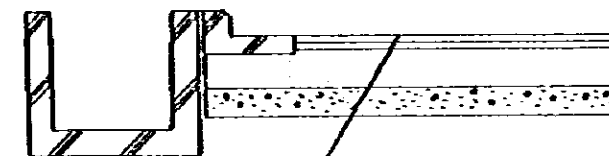


DETAIL - A



ASPHALT WEARING COURSE	5CM
ASPHALT BINDER COURSE	5CM
ASPHALT BASE COURSE	5CM
ASPHALT TREATED BASE COURSE	25CM
SANDY GRAVEL SUB-BASE COURSE	30CM

DETAIL - B

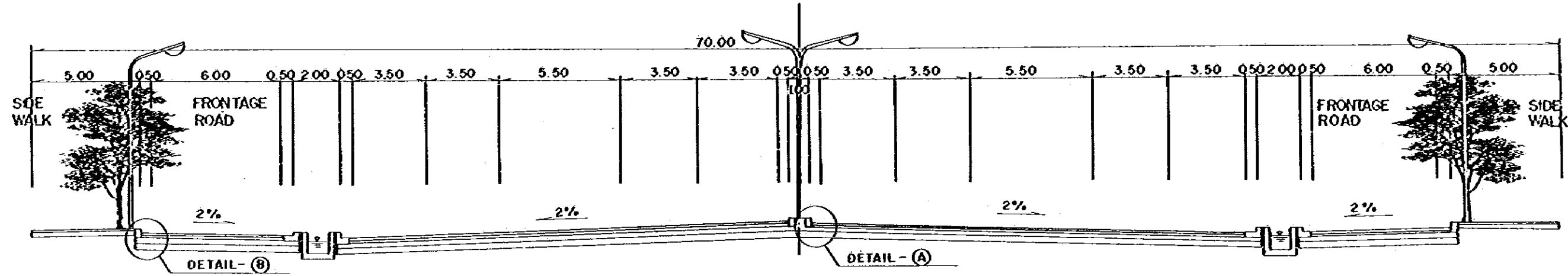


ASPHALT WEARING COURSE	5CM
ASPHALT BASE COURSE	5CM
ASPHALT TREATED BASE COURSE	25CM
SANDY GRAVEL SUB-BASE COURSE	20CM

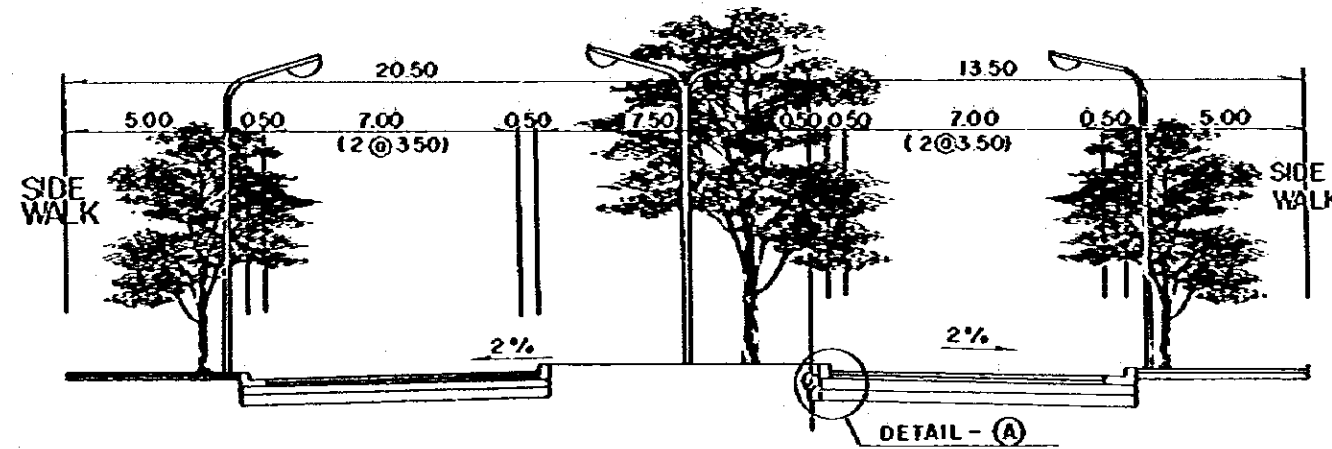
Tg. PRIOK ACCESS (2)
S = 1:200

PROJECT	PROJECT CODE / NO	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	4	5
TYPICAL CROSS SECTION (Tg. PRIOK ACCESS)				

STA. 2+360~2+580



STA. 3+050 (WITHOUT FRONTAGE ROAD)



DETAIL - (A)

DETAIL - (B)

ASPHALT WEARING COURSE	5CM
ASPHALT BINDER COURSE	5CM
ASPHALT BASE COURSE	5CM
ASPHALT TREATED BASE COURSE	25CM
SANDY GRAVEL SUB-BASE COURSE	30CM

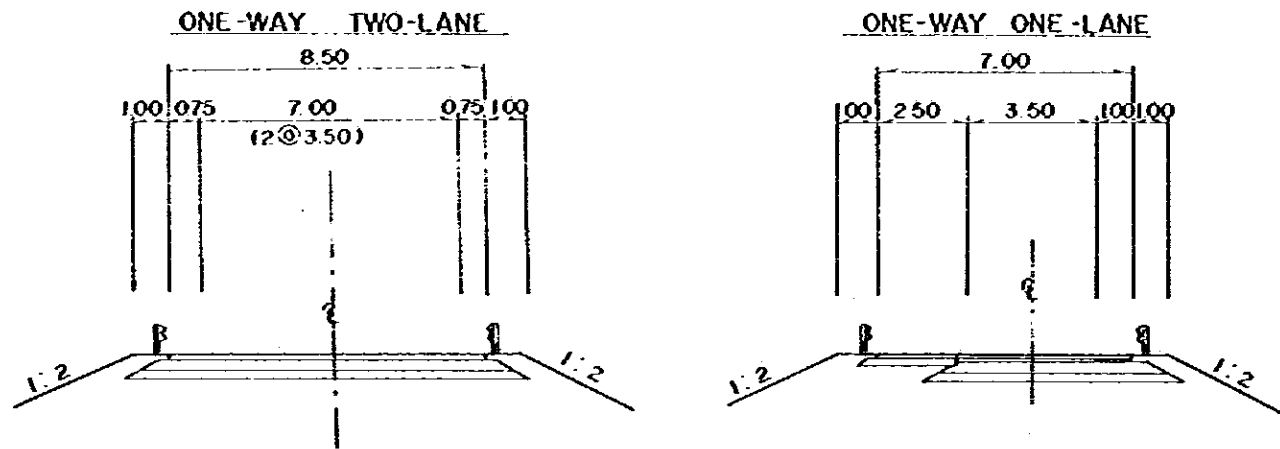
ASPHALT WEARING COURSE	5CM
ASPHALT BASE COURSE	5CM
ASPHALT TREATED BASE COURSE	25CM
SANDY GRAVEL SUB-BASE COURSE	20CM

PROJECT	PROJECT CODE / YR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	5	5
TYPICAL CROSS SECTION (RAMP)				

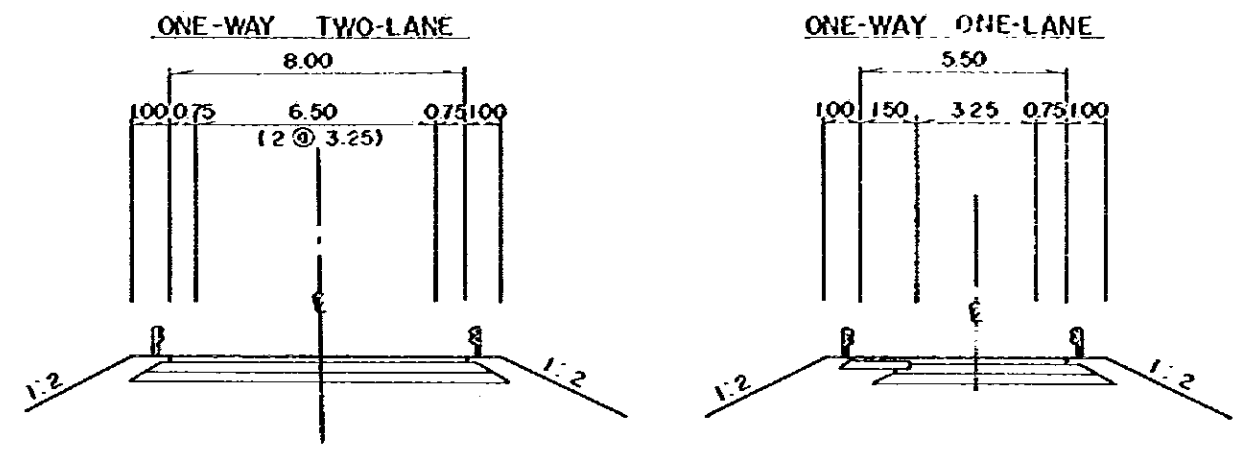
JUNCTION / INTERCHAGE

S = 1:200

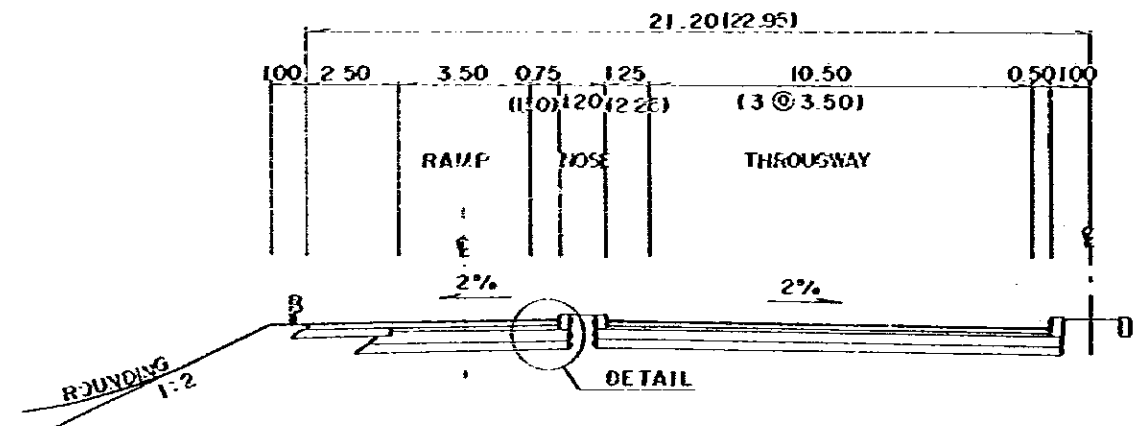
JUNCTION RAMP (VD = 60 KM/H)



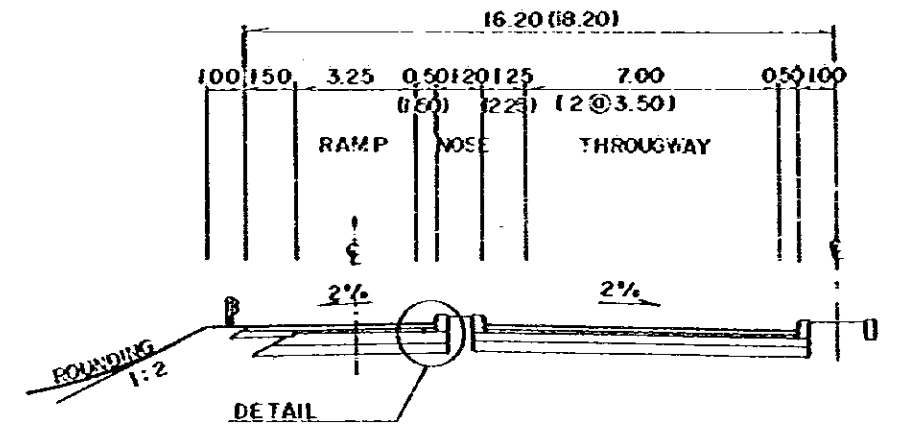
INTERCHANG RAMP (VD = 40 KM/H)



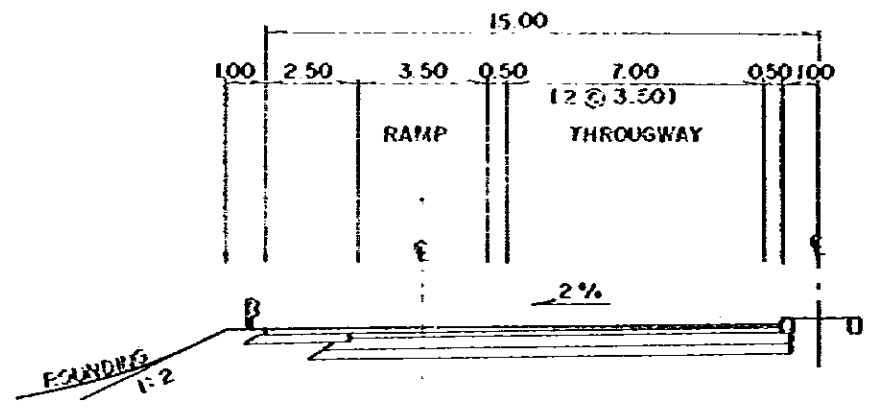
NOSE SECTION



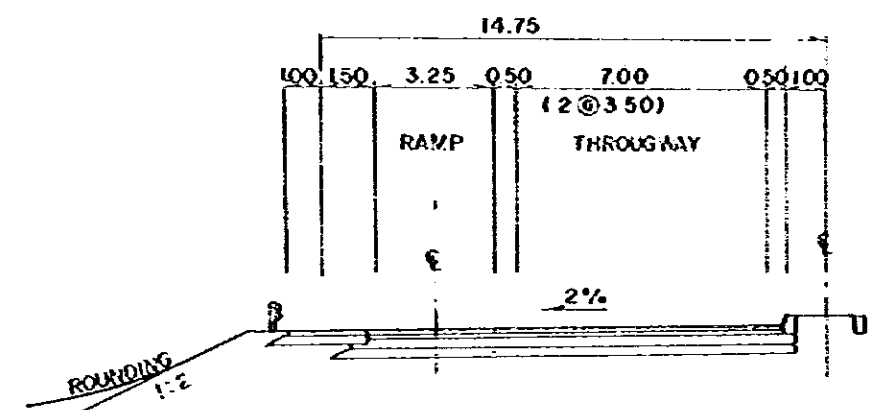
NOSE SECTION



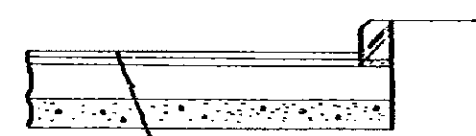
TAPER SECTION



TAPER SECTION

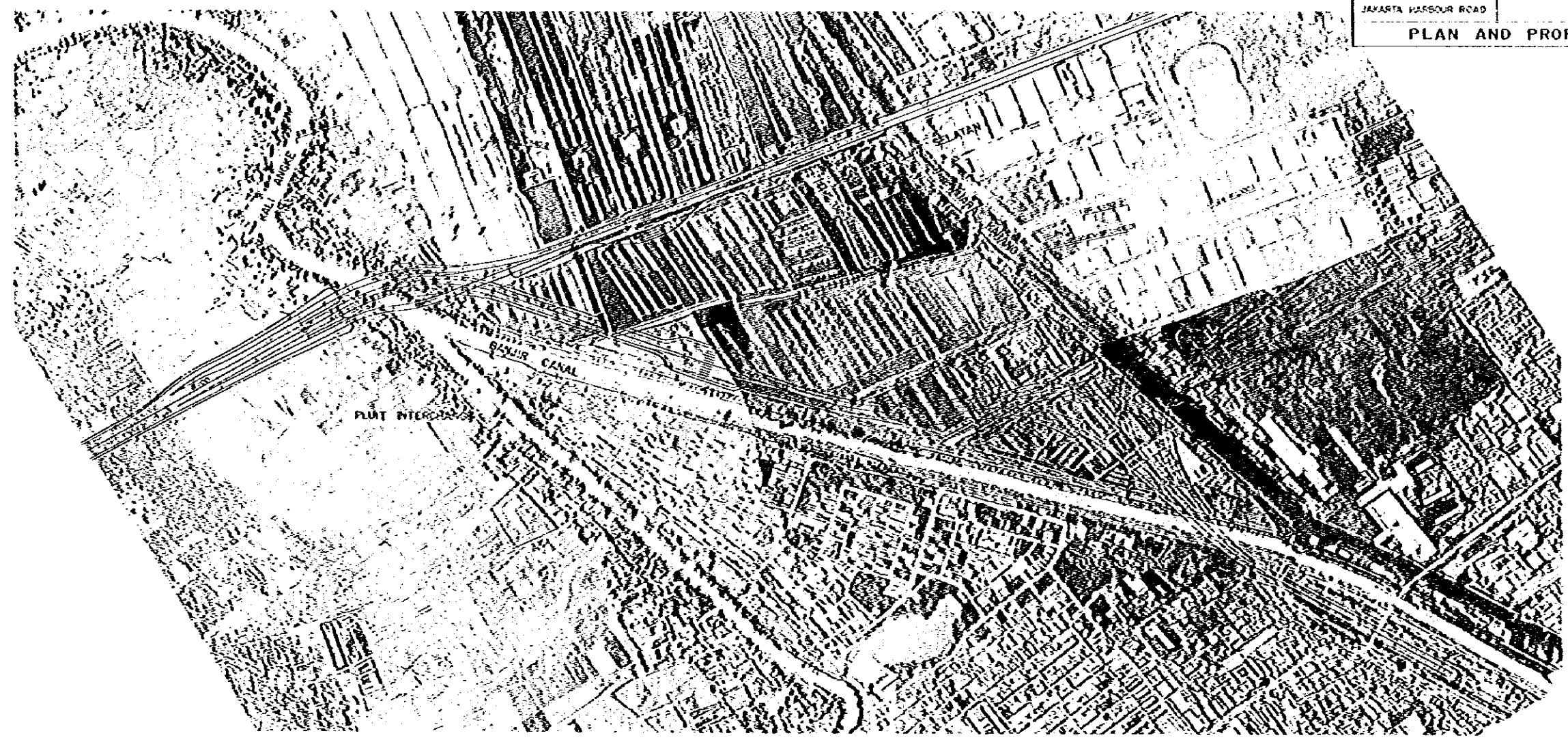
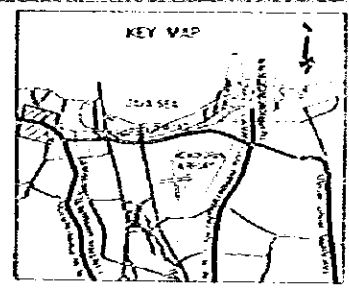


DETAIL

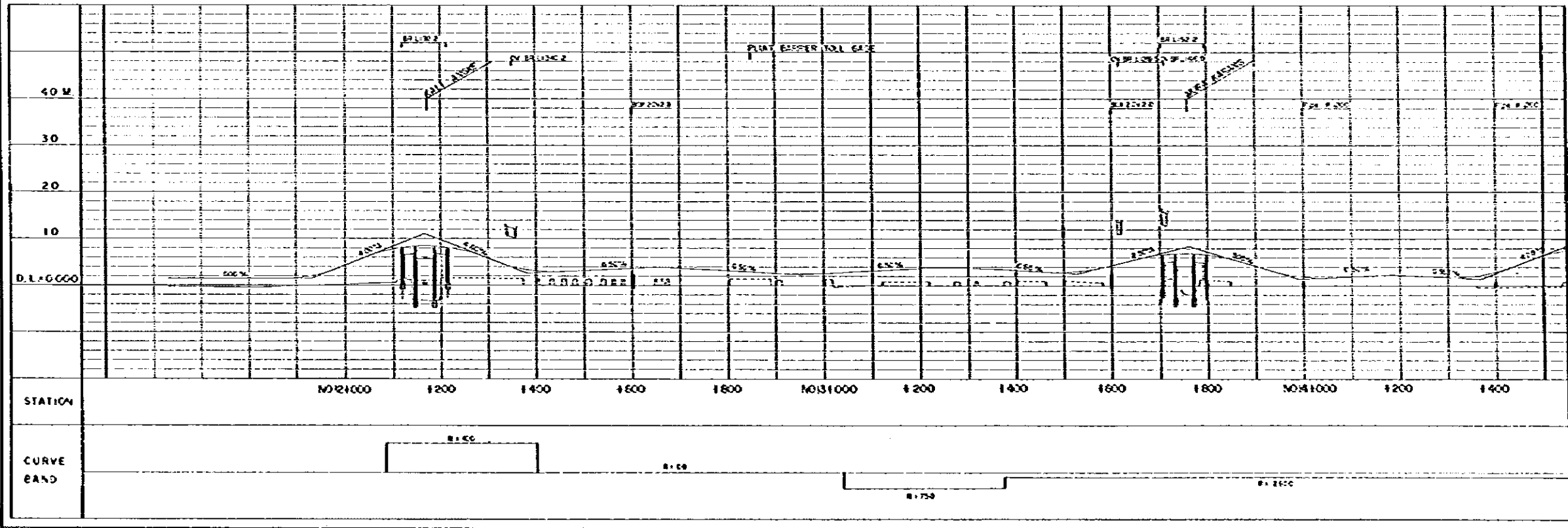


ASPHALT WEARING COURSE	5CM
ASPHALT BASE COURSE	5CM
ASPHALT TREATED BASE COURSE	25CM
SANDY GRAVEL SUB-BASE COURSE	20CM

PROJECT	PROJECT CODE / YR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	1	8
PLAN AND PROFILE			SCALE	H: 1:10,000 V: 1:1,000

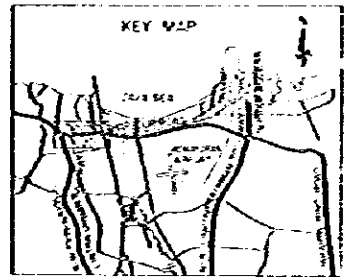


- LEGEND**
- HORIZONTAL ALIGNMENT
SCALE 1:10,000
- — — — CENTER LINE OF RECOMMENDED ALIGNMENT
 - — — — BOUNDARY OF RIGHT OF WAY
 - ==== PLANNING ARTERIAL ROAD
 - H — GRADE SEPARATION CROSS ROAD - OVERPASS
 - H — GRADE SEPARATION CROSS ROAD - UNDERPASS
 - + — PEDESTRIAN OVERPASS
 - | — CULVERT
 - R RADIUS
 - A PARAMETER OF CLOTHOID CURVE
 - TOLL GATE

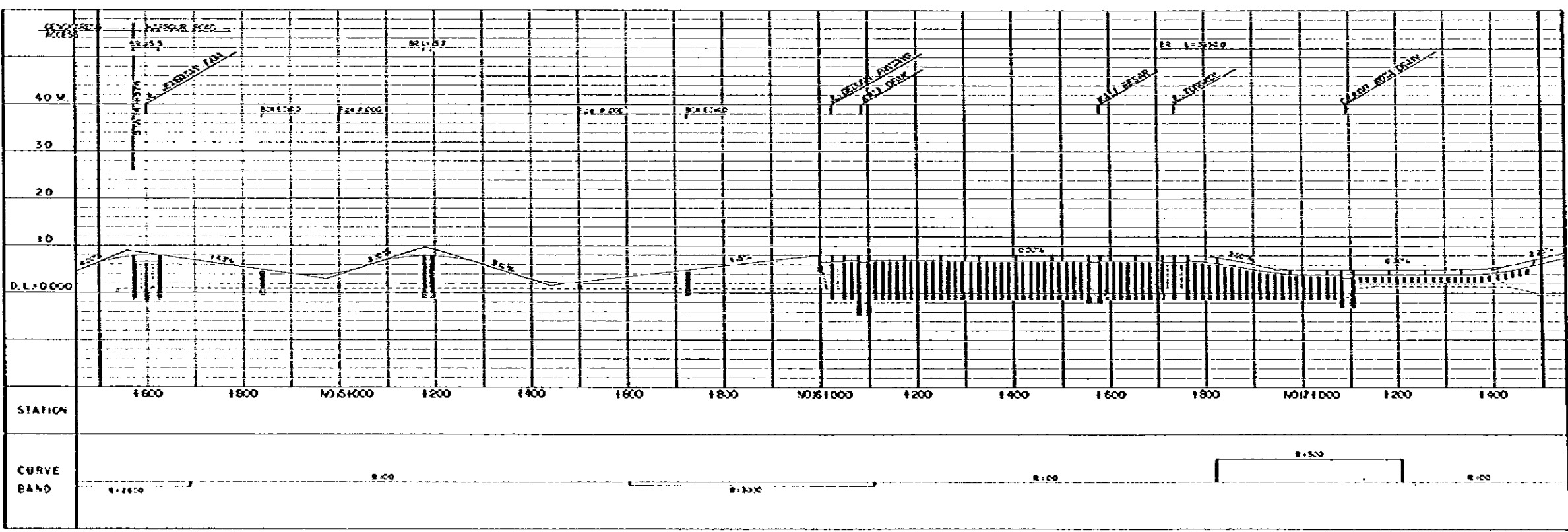


- VERTICAL ALIGNMENT**
HORIZONTAL SCALE 1:10,000
VERTICAL SCALE 1:1,000
- GRADIENT OF RECOMMENDED ALIGNMENT
- — — — EXISTING GROUND
 - + — OVERPASS BRIDGE
 - + — THROUGH-LINE BRIDGE
 - + — PEDESTRIAN OVERPASS
 - | — BOX CULVERT
 - | — PIPE CULVERT
 - > — HIGH WATER LEVEL
 - > — TOLL GATE, ON RAMP
 - > — OFF RAMP

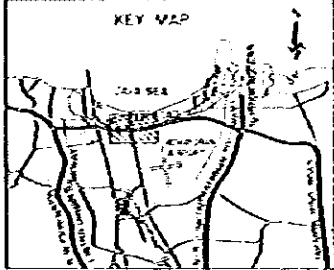
PROJECT	PROJECT CODE/HR	PROVINCE	SHEET NO	TOTAL SHEET
SEMARANG HARBOUR ROAD		DKI JKT	2	8
PLAN AND PROFILE			SCALE H: 10,000 V: 1,000	



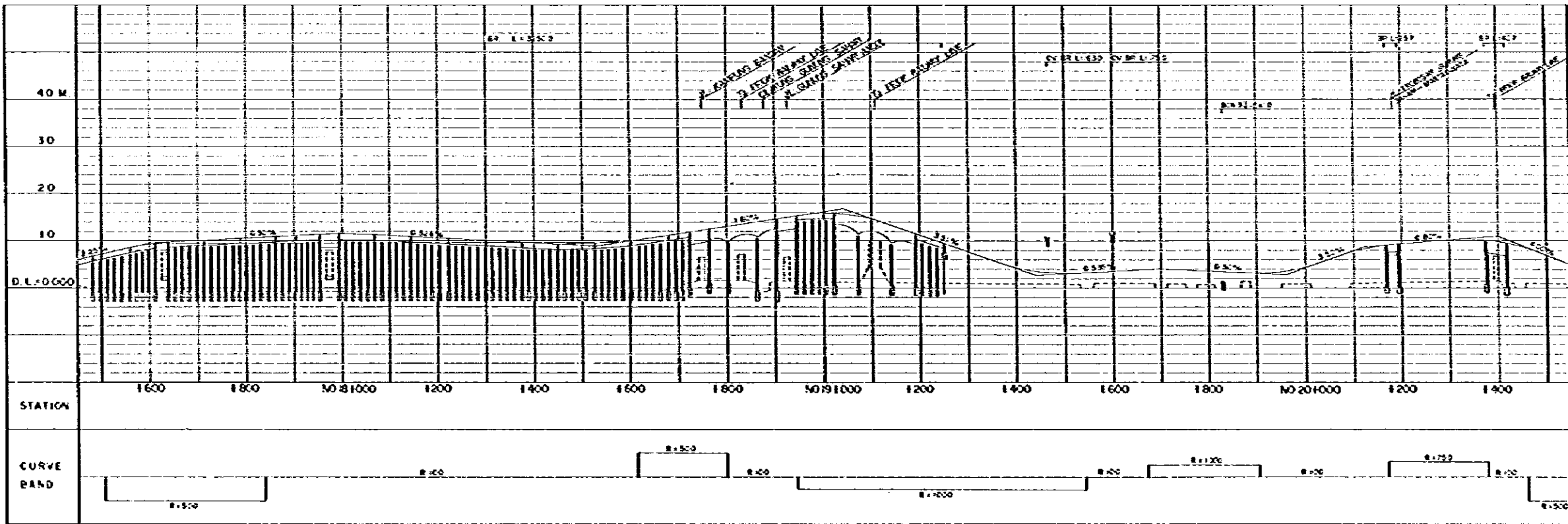
- LEGEND**
- HORIZONTAL ALIGNMENT**
SCALE 1:10,000
- — — — CENTER LINE OF RECOMMENDED ALIGNMENT
 - — — — BOUNDARY OF RIGHT OF WAY
 - ==== PLANNING ARTERIAL ROAD
 - +—+—+ GRADE SEPARATION (CROSS ROAD - OVERPASS)
 - +—+—+ GRADE SEPARATION (CROSS ROAD - UNDERPASS)
 - +—+—+ PEDESTRIAN OVERPASS
 - +—+—+ CULVERT
 - R RADIUS
 - A A PARAMETER OF CLOTHOID CURVE
 - TOLL GATE



- VERTICAL ALIGNMENT**
HORIZONTAL SCALE 1:10,000
VERTICAL SCALE 1:1,000
- GRADIENT OF RECOMMENDED ALIGNMENT
 - EXISTING GROUND
 - — — OVERPASS BRIDGE
 - — — THROUGH-LANE BRIDGE
 - — — PEDESTRIAN OVERPASS
 - BOX CULVERT
 - PIPE CULVERT
 - HIGH WATER LEVEL
 - TOLL GATE, ON RAMP
 - OFF RAMP

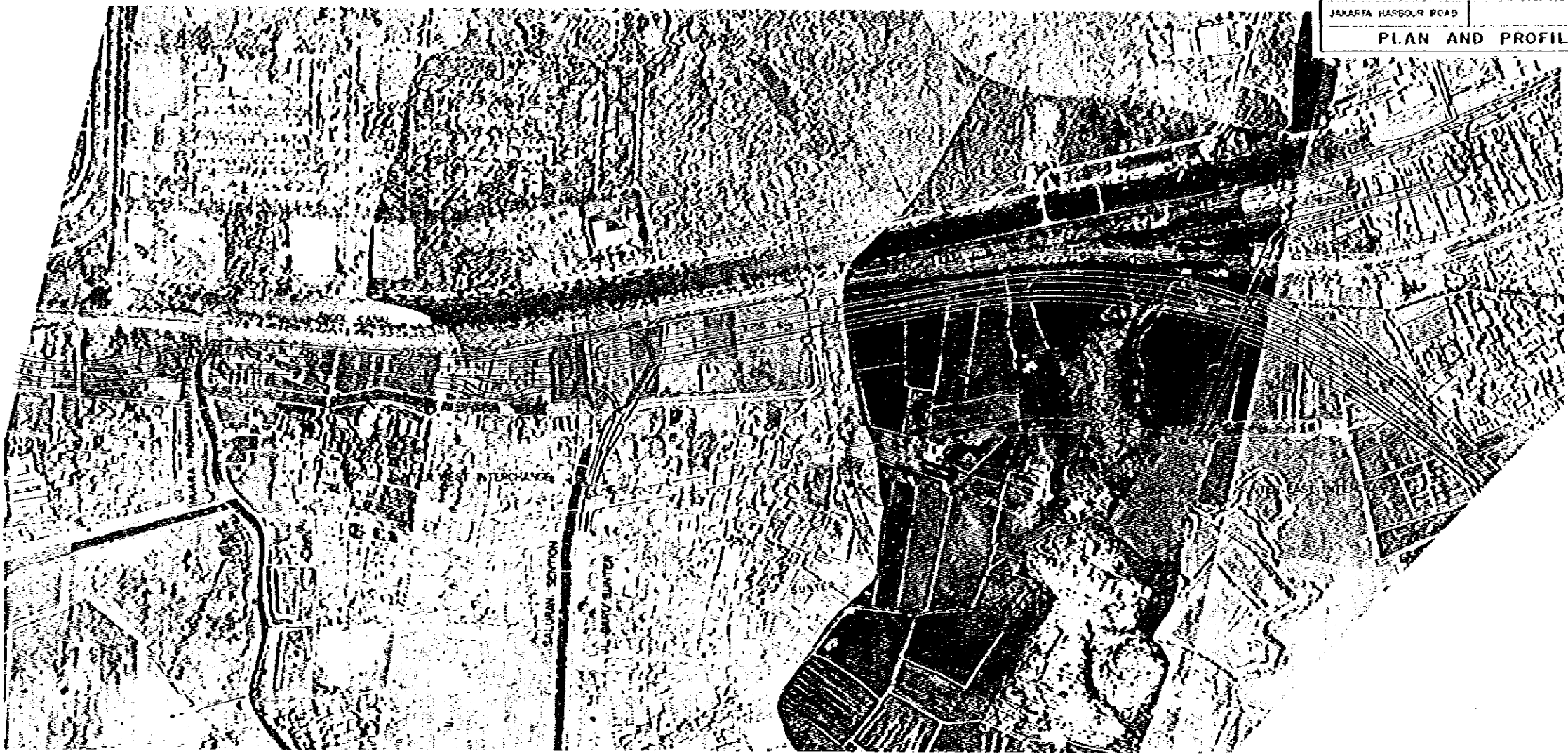
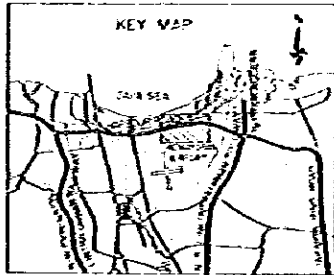


- LEGEND**
- HORIZONTAL ALIGNMENT
SCALE 1:10,000
- CENTER LINE OF RECOM. ALIGNMENT
 - BOUNDARY OF RIGHT OF WAY
 - ==== PLANNING ARTERIAL ROAD
 - ||--- GRADE SEPARATION (CROSS ROAD - OVERPASS)
 - ||--- GRADE SEPARATION (CROSS ROAD - UNDERPASS)
 - ||--- PEDESTRIAN OVERPASS
 - ||--- CULVERT
 - R RADIUS
 - A PARAMETER OF CUBIC CURVE
 - TOLL GATE

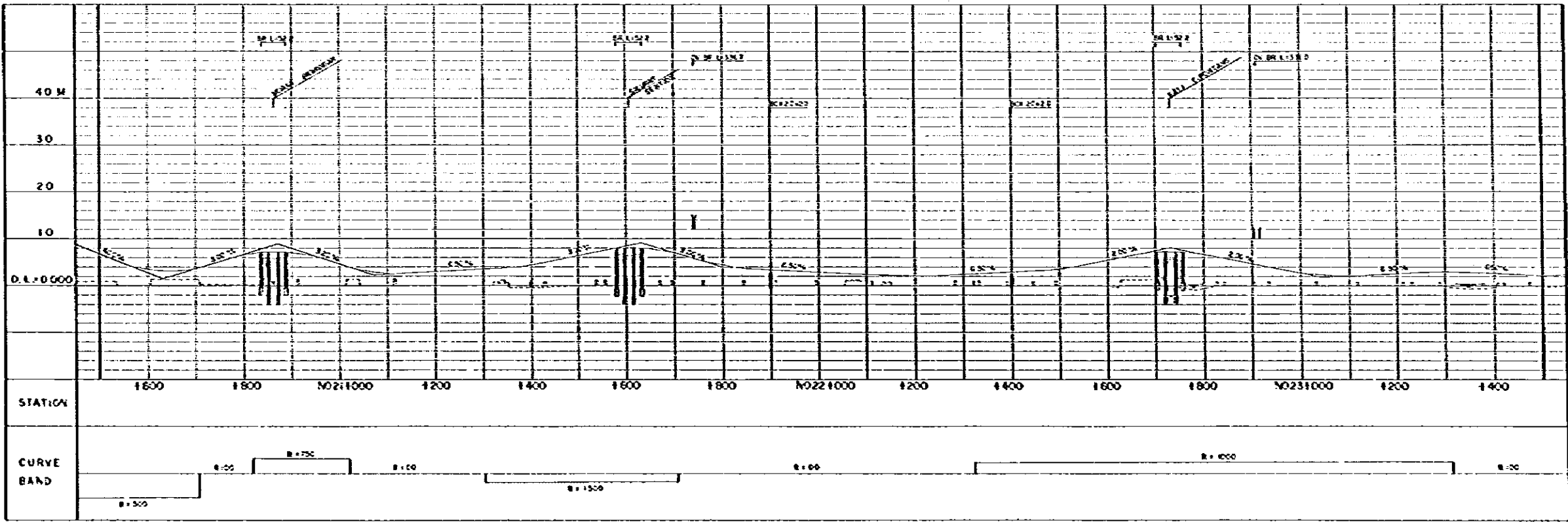


- VERTICAL ALIGNMENT
HORIZONTAL SCALE 1:1000
VERTICAL SCALE 1:1000
- GRADIENT OF RECOMMENDED ALIGNMENT
 - EXISTING GROUND
 - OVERPASS BRIDGE
 - THROUGH-LANE BRIDGE
 - PEDESTRIAN OVERPASS
 - BOX CULVERT
 - PIPE CULVERT
 - ▽ HIGH WATER LEVEL
 - ▽ TOLL GATE, ON RAMP
 - ▽ OFF RAMP

PROJECT	PROJECT CODE / YR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	4	8
PLAN AND PROFILE			SCALE	H: 10,000 V: 1,000



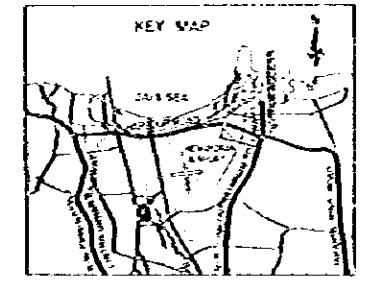
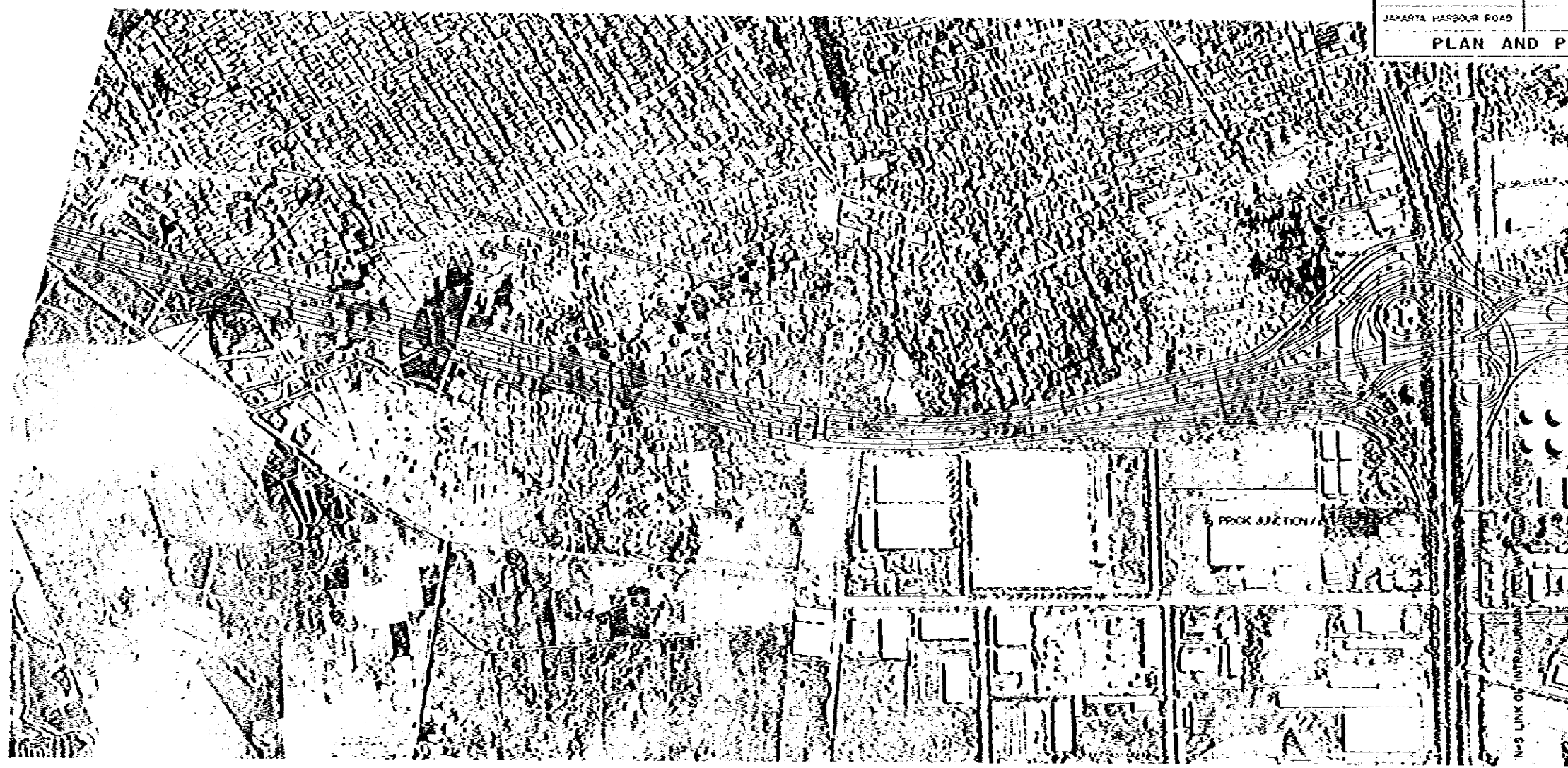
- LEGEND**
- HORIZONTAL ALIGNMENT**
SCALE 1:10,000
- CENTER LINE OF RECOM
 - ALIGNMENT
 - BOUNDARY OF RIGHT OF WAY
 - ==== PLANNING ARTERIAL ROAD
 - ||--- GRADE SEPARATION (CROSS ROAD - OVERPASS)
 - ||--- GRADE SEPARATION (CROSS ROAD - UNDERPASS)
 - ||--- PEDESTRIAN OVERPASS
 - ||--- CONVEY
 - R RADIUS
 - A PERIMETER OF CLOTHOID CURVE
 - TOLL GATE



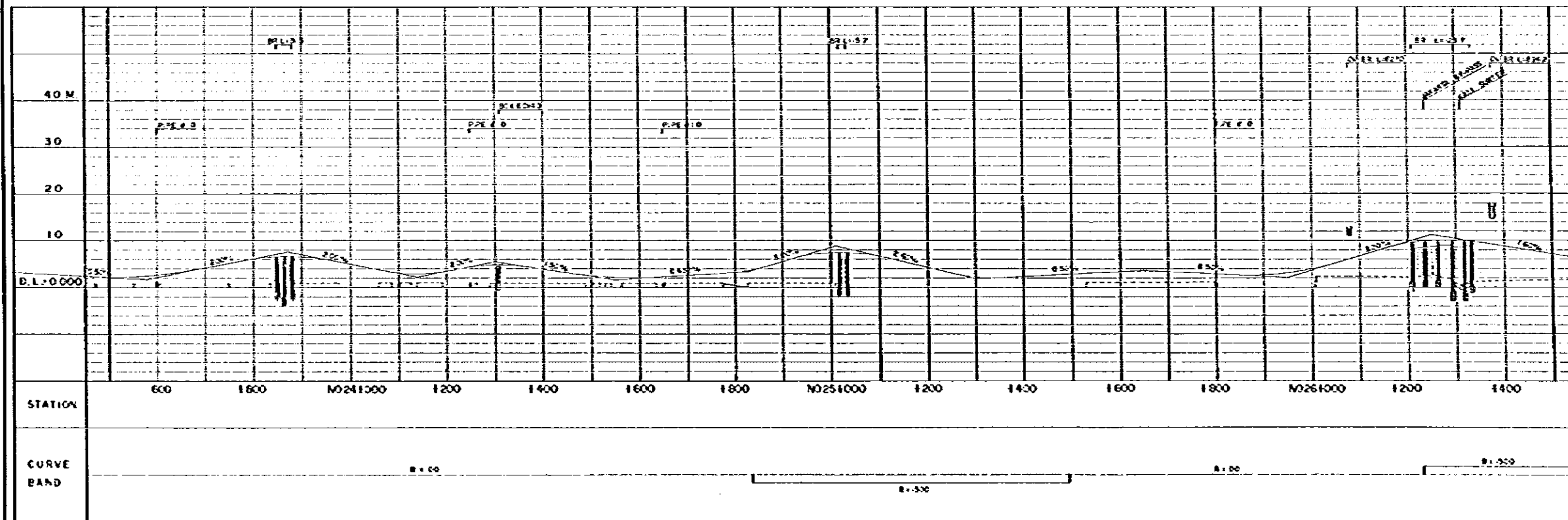
- VERTICAL ALIGNMENT**
HORIZONTAL SCALE 1:10,000
VERTICAL SCALE 1:1,000
- GRADIENT OF RECOMMENDED ALIGNMENT
 - EXISTING GROUND
 - OVERPASS BRIDGE
 - THROUGH-LANE BRIDGE
 - PEDESTRIAN OVERPASS
 - BOX CONVEY
 - PIPE CONVEY
 - HIGH WATER LEVEL
 - ▲ TOLL GATE, ON RAMP
 - ▼ OFF RAMP

STATION	1600	1800	N021000	1200	1400	1600	1800	N0221000	1200	1400	1600	1800	N0231000	1200	1400
CURVE BAND	R=500		R=750		R=1000		R=1500		R=2000		R=3000		R=4000		R=5000

PROJECT	PROJECT CODE / YR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	5	8
PLAN AND PROFILE			SCALE	H: 1:10,000 V: 1:1,000

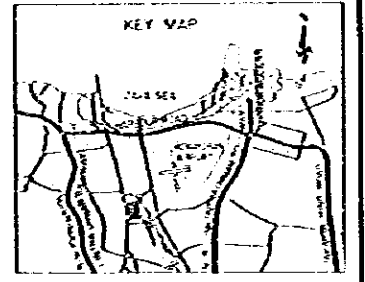


- LEGEND**
- HORIZONTAL ALIGNMENT**
SCALE 1:10,000
- CENTER LINE OF RECOMMENDED ALIGNMENT
 - BOUNDARY OF RIGHT OF WAY
 - === PLANNING ARTERIAL ROAD
 - H--- GRADE SEPARATION (CROSS ROAD - OVERPASS)
 - H--- GRADE SEPARATION (CROSS ROAD - UNDERPASS)
 - +--- PEDESTRIAN OVERPASS
 - |--- CULVERT
 - R RADIUS
 - A RADIUS OF CIRCULAR CURVE
 - ⇄ TOLL GATE

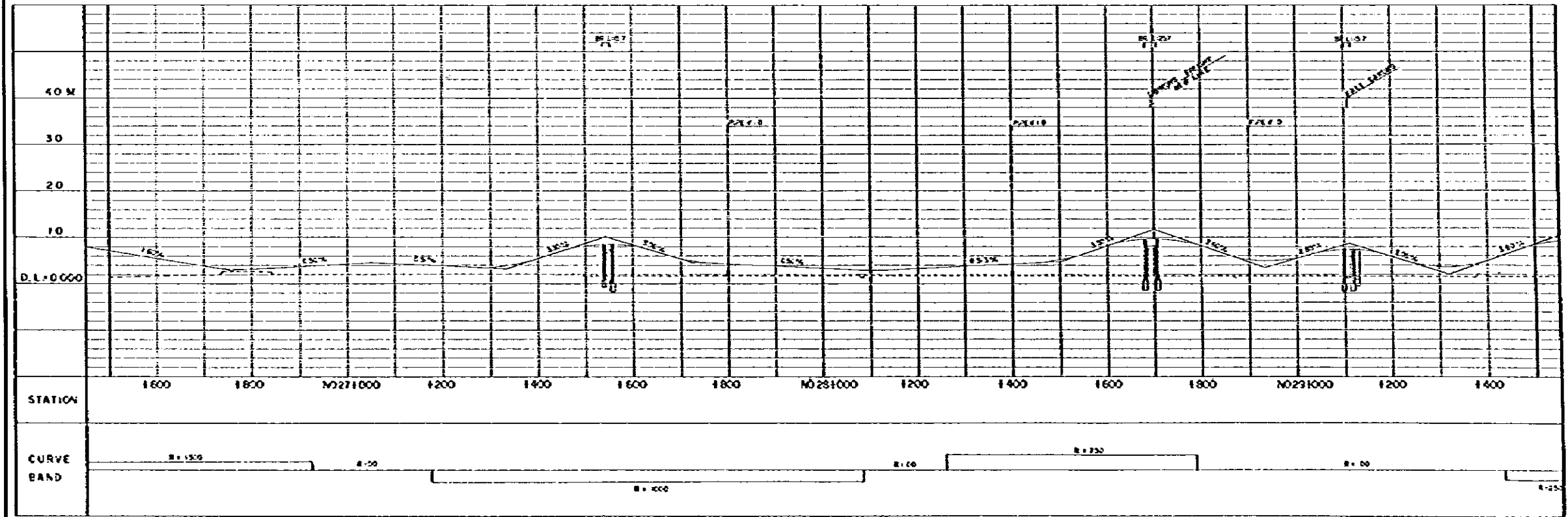


- VERTICAL ALIGNMENT**
HORIZONTAL SCALE 1:10,000
VERTICAL SCALE 1:1,000
- ALIGNMENT OF RECOMMENDED
 - EXISTING GROUND
 - OVERPASS BRIDGE
 - THROUGH-LANE BRIDGE
 - PEDESTRIAN OVERPASS
 - BOX CULVERT
 - PIPE CULVERT
 - HIGH WATER LEVEL
 - TOLL GATE, ON RAMP
 - OFF RAMP

PROJECT	PROJECT CODE / YR	PROV. / W.C.	SHEET NO.	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	6	8
PLAN AND PROFILE			SCALE	H = 10,000 V = 1,000

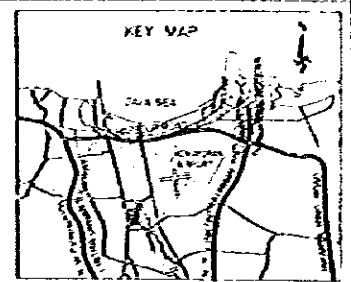
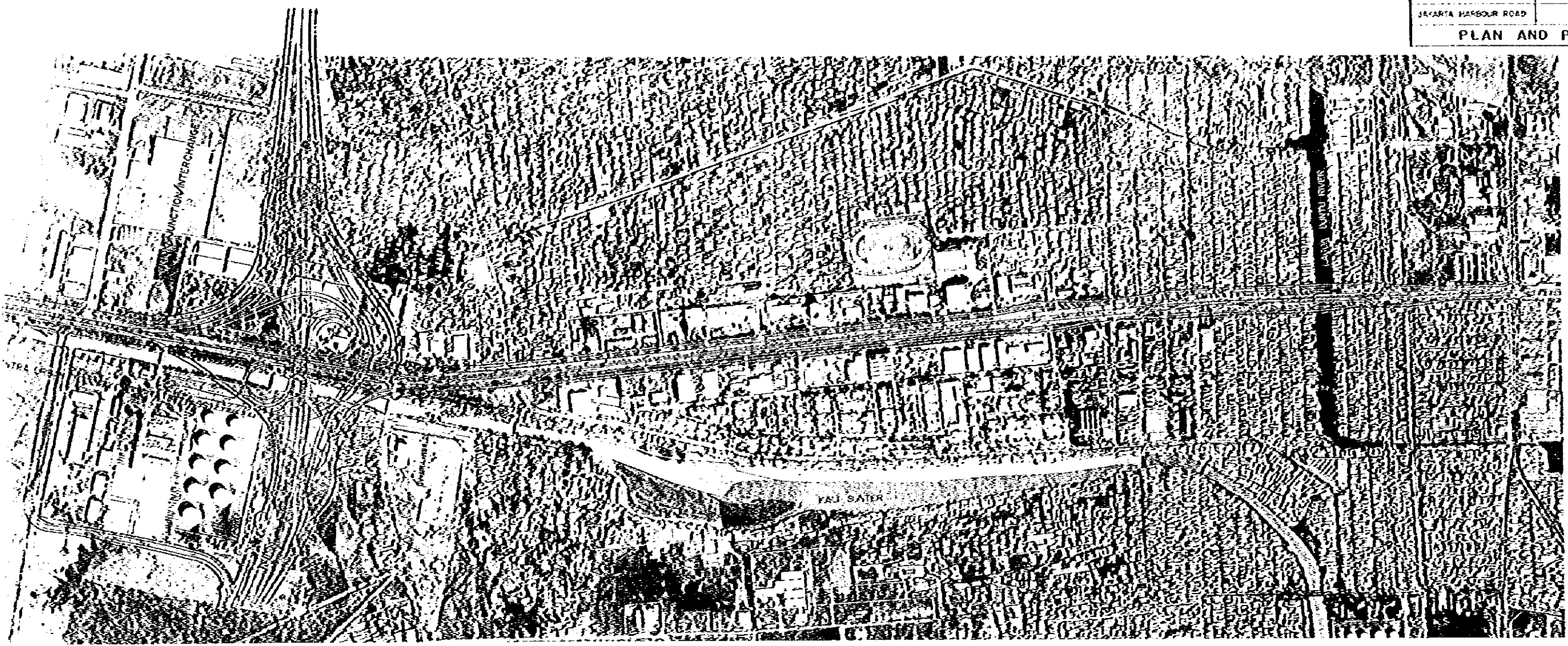


- LEGEND**
- HORIZONTAL ALIGNMENT**
SCALE 1:10,000
- CENTER LINE OF RECOMMENDED ALIGNMENT
 - BOUNDARY OF RIGHT OF WAY
 - ===== PLANNING ARTERIAL ROAD
 - |-|-| GRADE SEPARATION (CROSS ROAD - OVERPASS)
 - |-|-| GRADE SEPARATION (CROSS ROAD - UNDERPASS)
 - |-|-| PEDESTRIAN OVERPASS
 - |-|-| CULVERT
 - R RADIUS
 - A PARAMETER OF CLOTHOID CURVE
 - o TOLL GATE

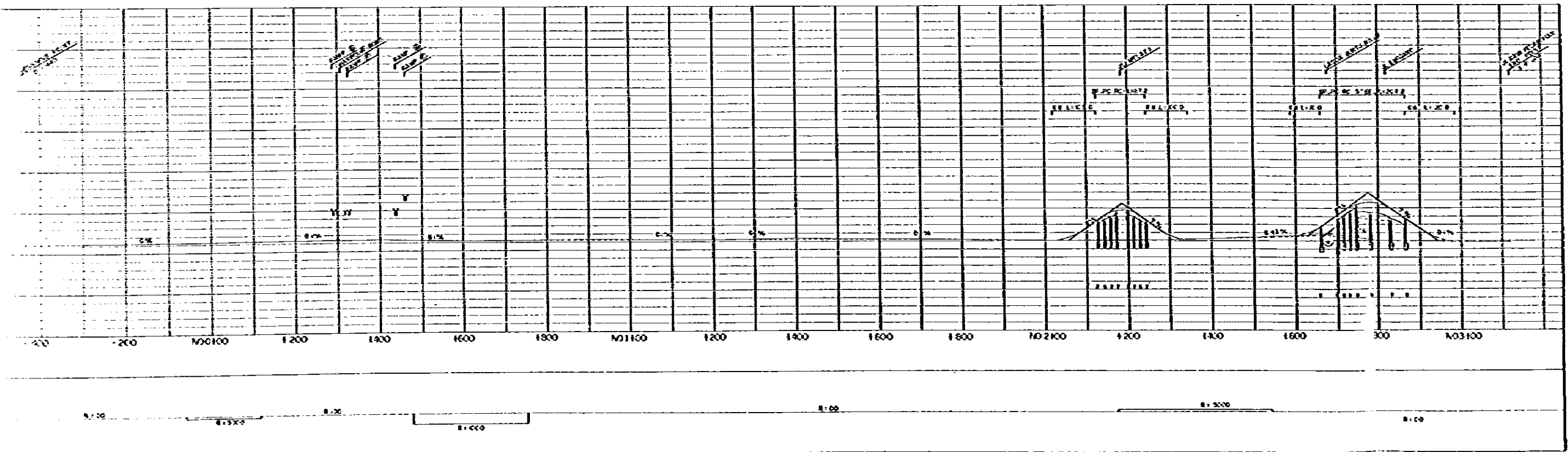


- VERTICAL ALIGNMENT**
HORIZONTAL SCALE 1:10,000
VERTICAL SCALE 1:1,000
- GRADIENT OF RECOMMENDED ALIGNMENT
 - EXISTING GROUND
 - OVERPASS BRIDGE
 - THROUGH-LANE BRIDGE
 - PEDESTRIAN OVERPASS
 - BOX CULVERT
 - PIPE CULVERT
 - HIGH WATER LEVEL
 - TOLL GATE, CAR RAMP
 - OFF RAMP

PROJECT	PROJECT CODE/YR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	8	8
PLAN AND PROFILE			SCALE	H = 10,000 V = 1,000

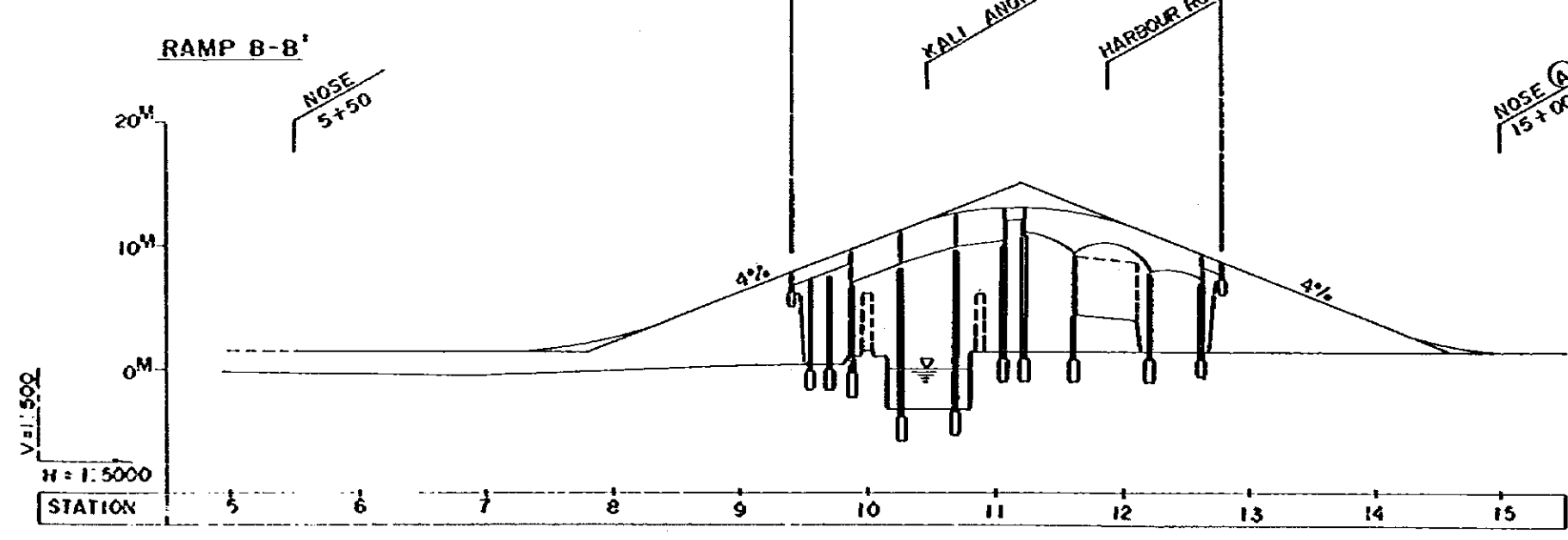
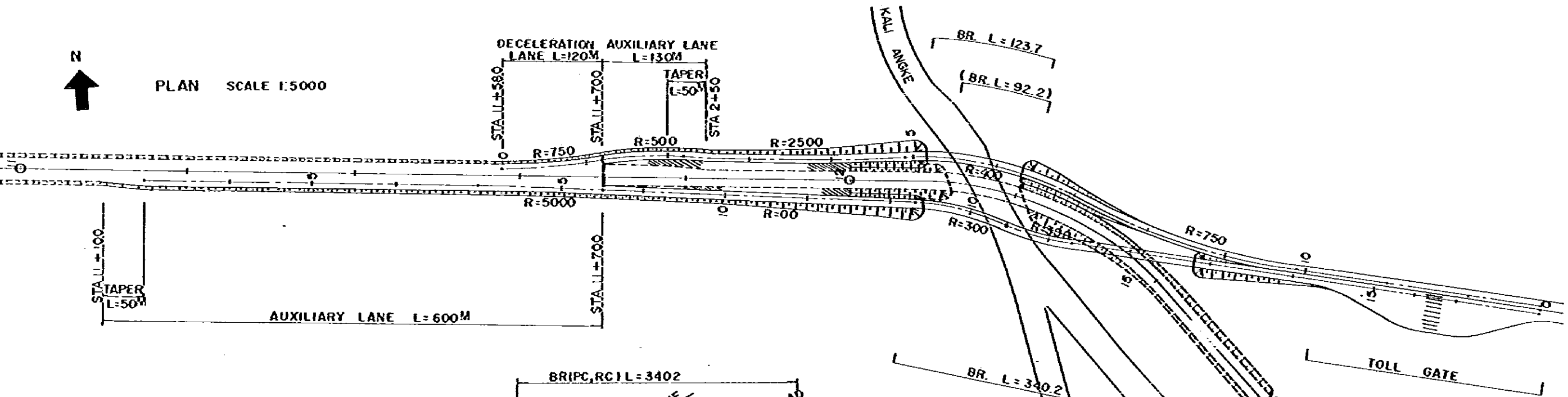
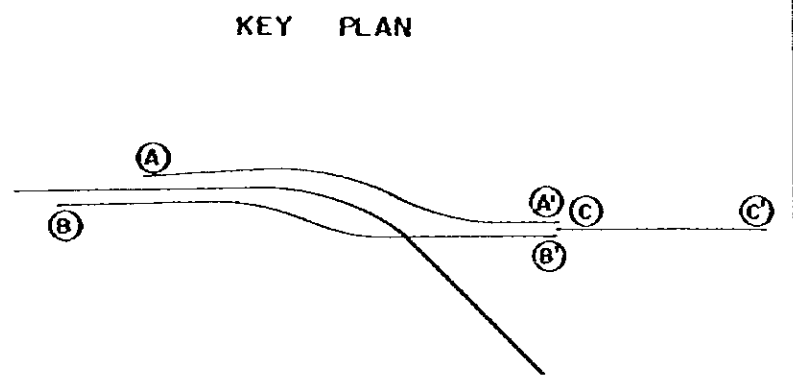
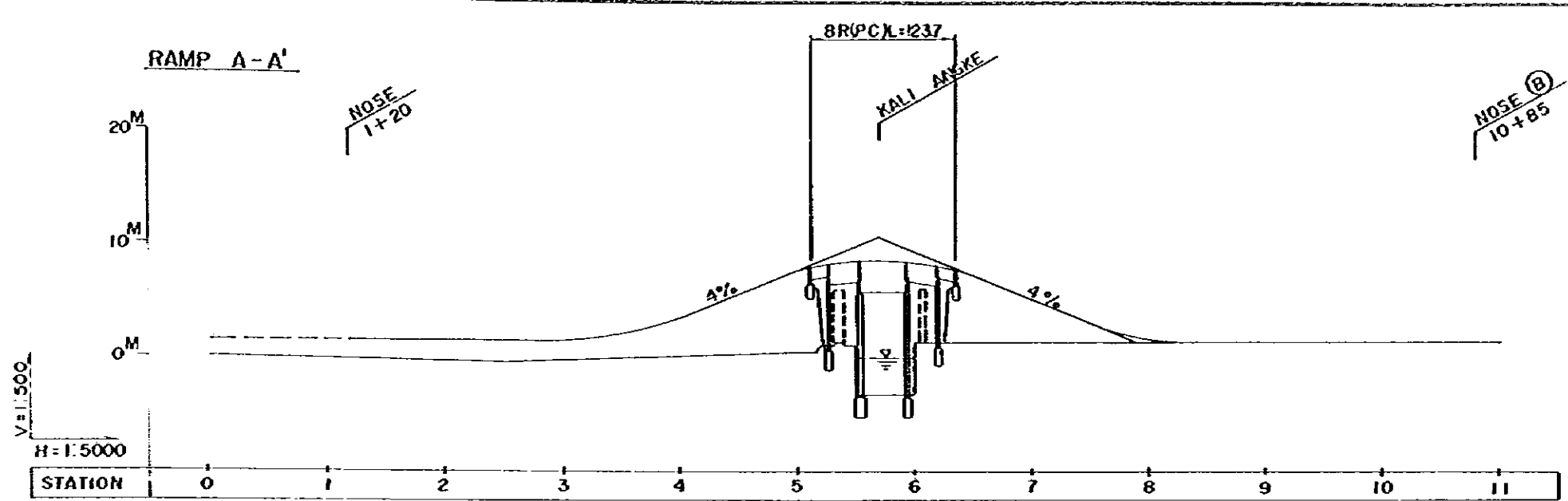


- LEGEND**
- HORIZONTAL ALIGNMENT**
SCALE 1:10,000
- CENTER LINE OF ROAD
 - ALIGNMENT
 - BOUNDARY OF RIGHT OF WAY
 - ===== PLANNING ARTERIAL ROAD
 - ||--- GRADE SEPARATION (CROSS ROAD - OVERPASS)
 - X--- GRADE SEPARATION (CROSS ROAD - UNDERPASS)
 - |--- PEDESTRIAN OVERPASS
 - |--- CULVERT
 - R RADIUS
 - A PARAMETER OF CLOUTHOOD CURVE
 - TOLL GATE



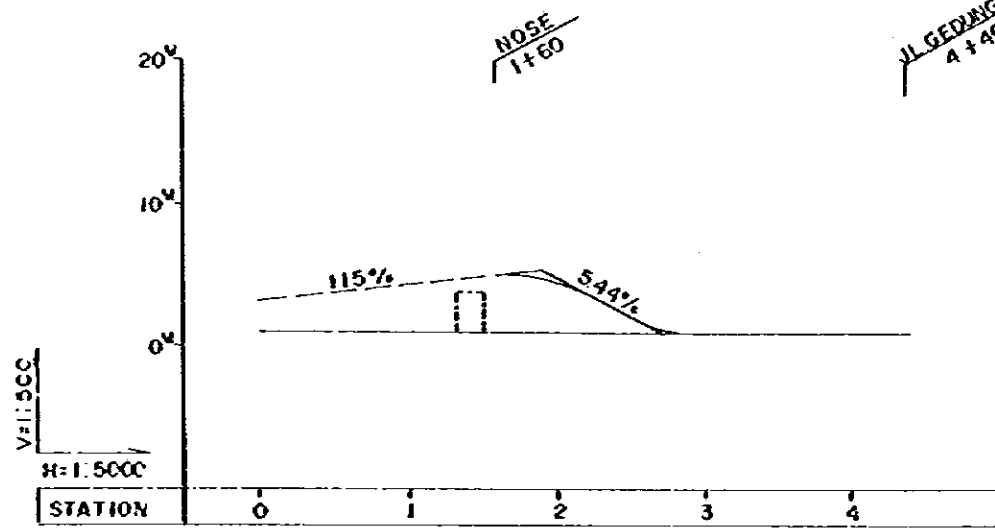
- VERTICAL ALIGNMENT**
HORIZONTAL SCALE 1:10,000
VERTICAL SCALE 1:1,000
- GRADIENT OF RECOMMENDED ALIGNMENT
 - ~ EXISTING GROUND
 - ||--- OVERPASS BRIDGE
 - X--- THROUGH-LANE BRIDGE
 - |--- PEDESTRIAN OVERPASS
 - BOX CULVERT
 - PIPE CULVERT
 - ↑ HIGH WATER LEVEL
 - ▲ TOLL GATE, ON RAMP
 - ▼ OFF RAMP

PROJECT	PROJECT CODE / YR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	I	19
PLUIT INTERCHANGE			SCALE	H=5000 V=500



PROJECT	PROJECT CODE / YR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	2	19
KOTA WEST INTERCHANGE SCALE				N = 5000 V = 500

RAMP A-A'

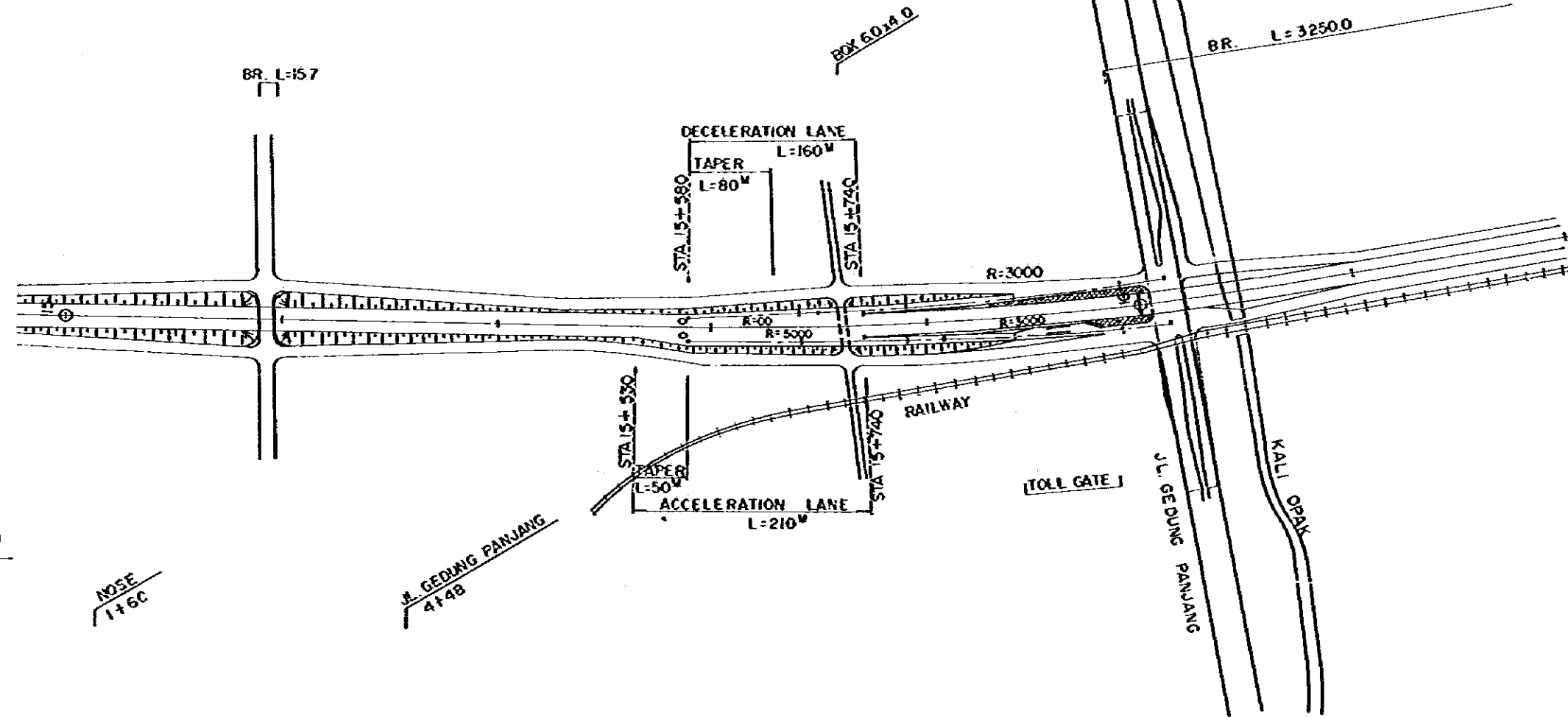
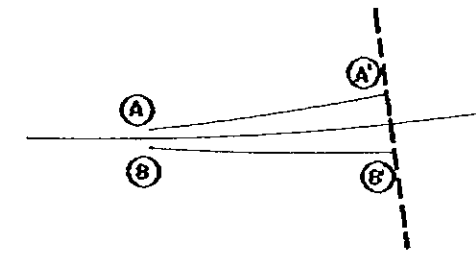


JL. GEDUNG PANJANG
4+40

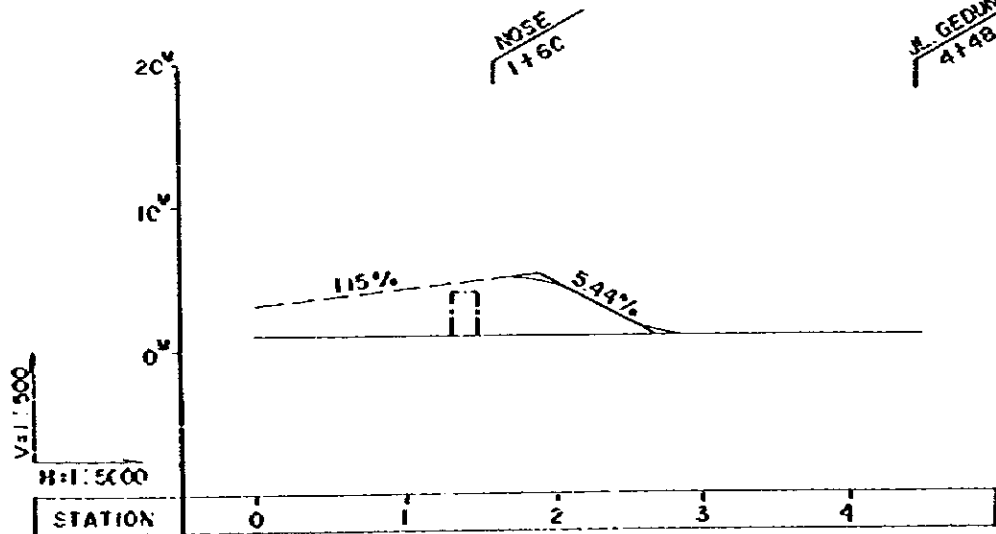


PLAN SCALE 1:5000

KEY PLAN

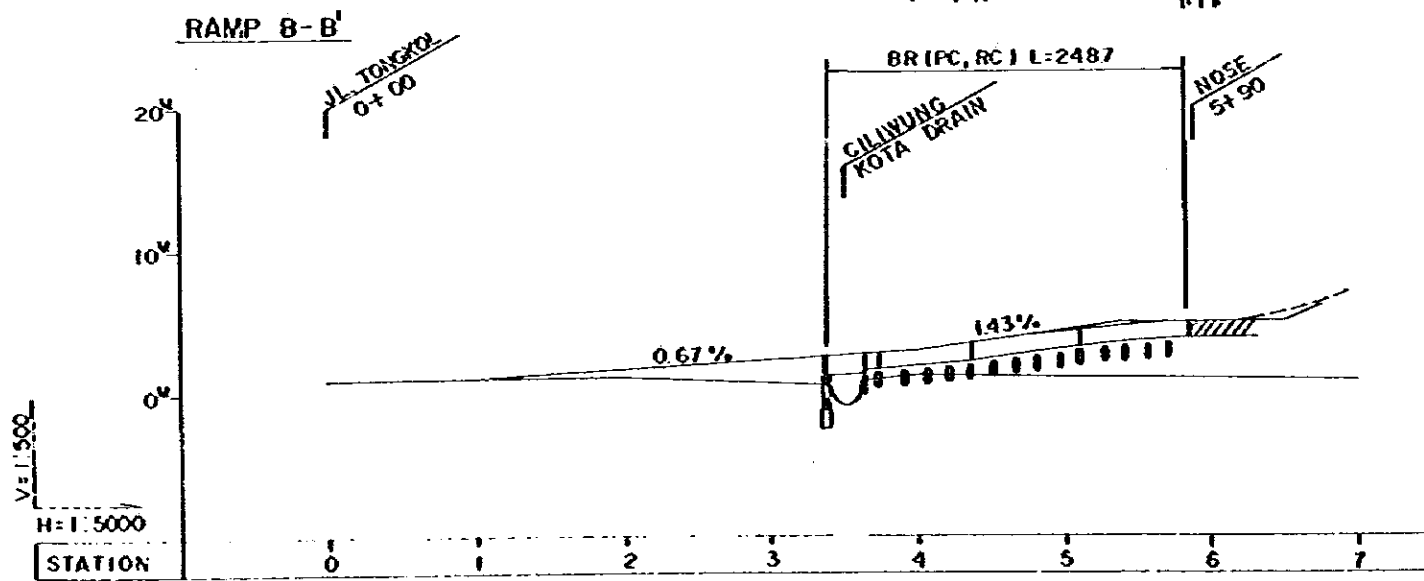
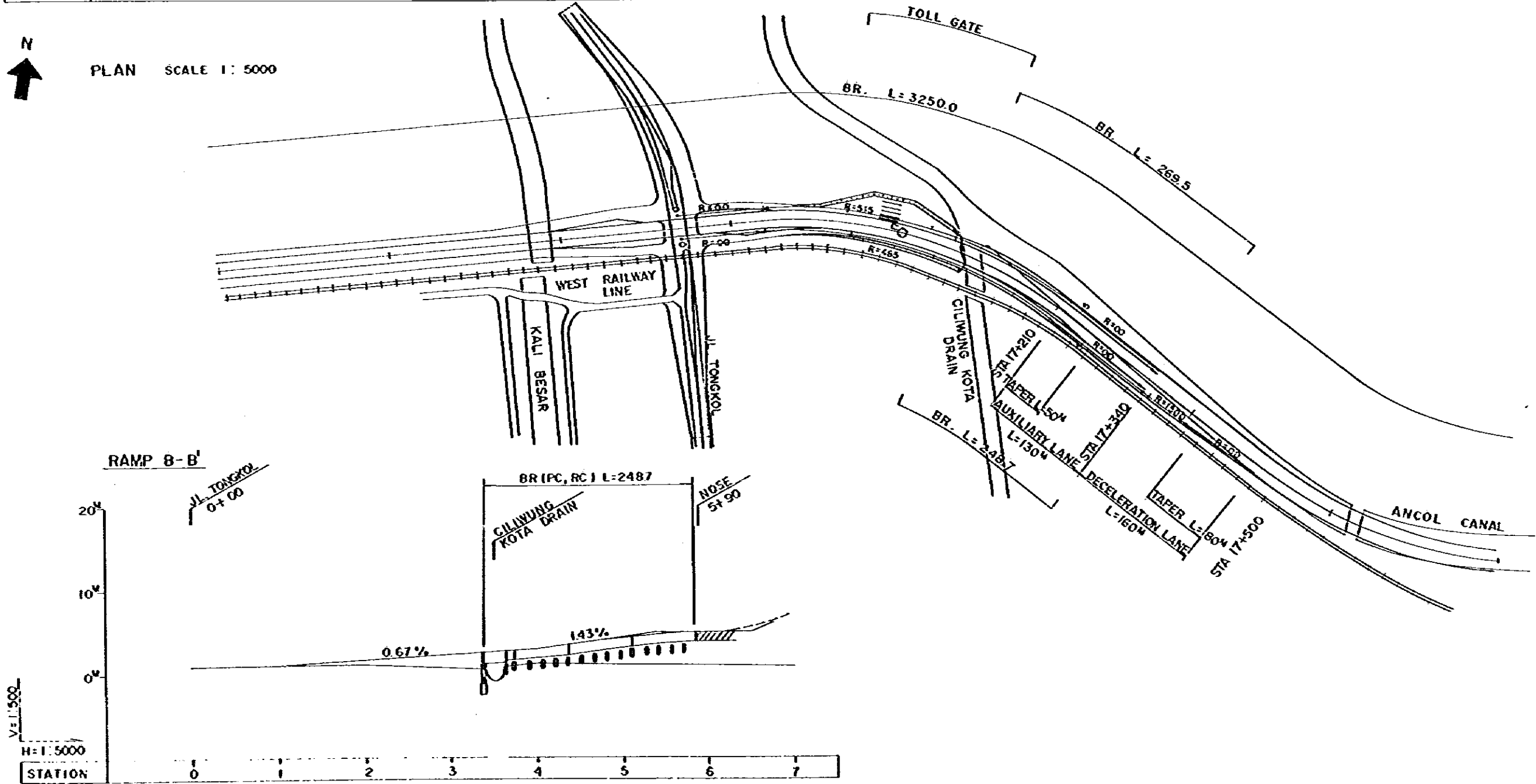
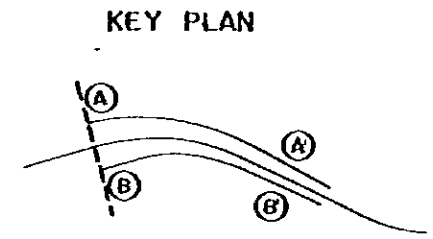
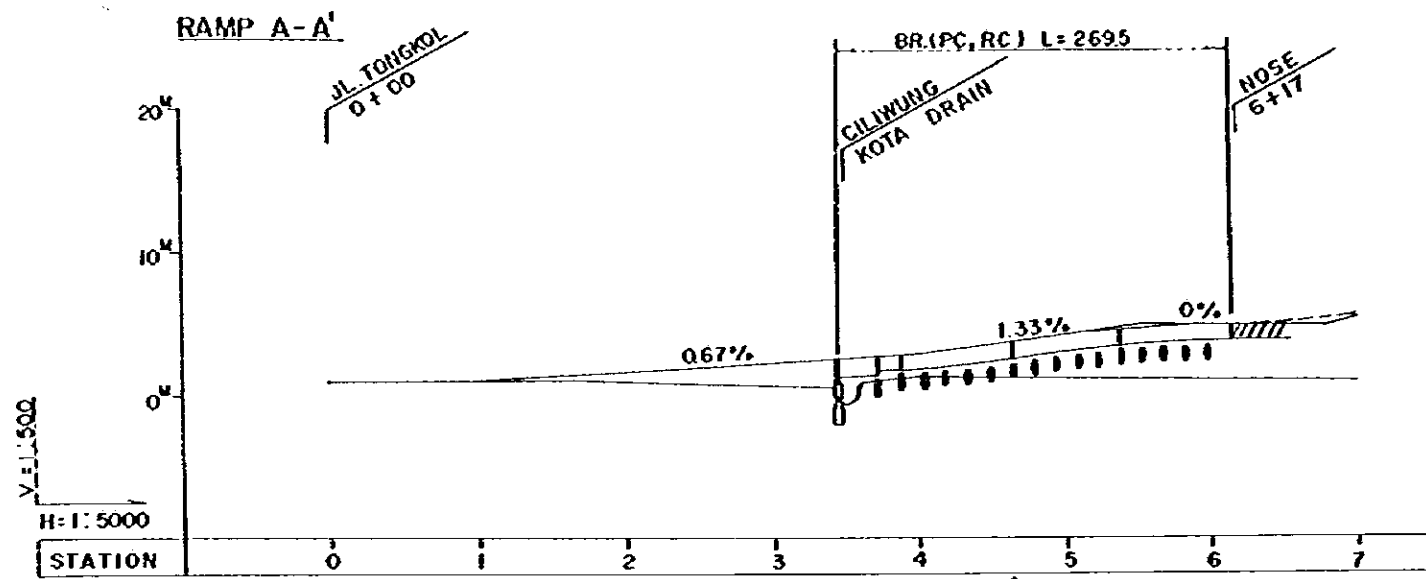


RAMP B-B'



JL. GEDUNG PANJANG
4+48

PROJECT	PROJECT CODE / I/R	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	3	19
KOTA EAST INTERCHANGE				SCALE $\frac{H=5000}{V=500}$

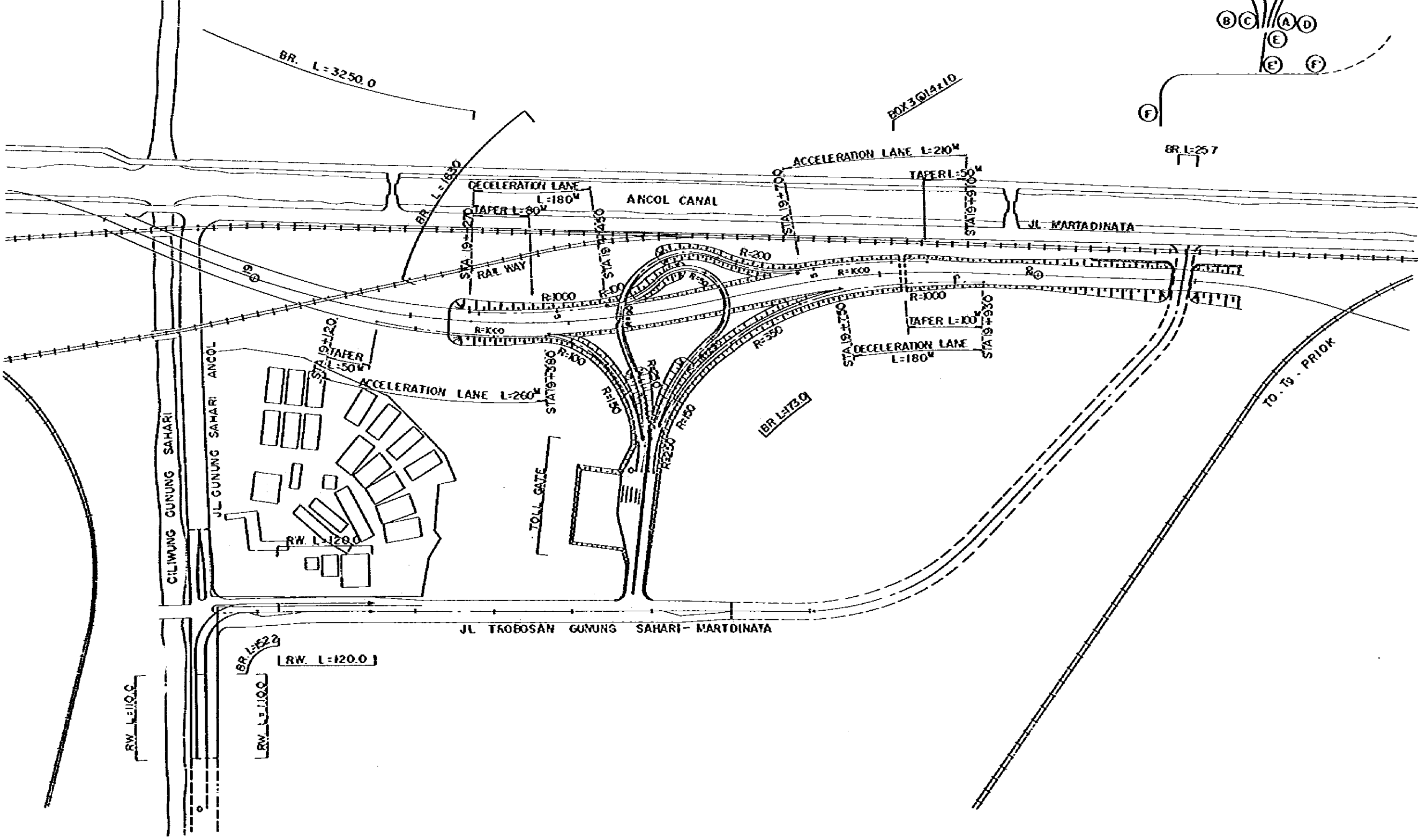
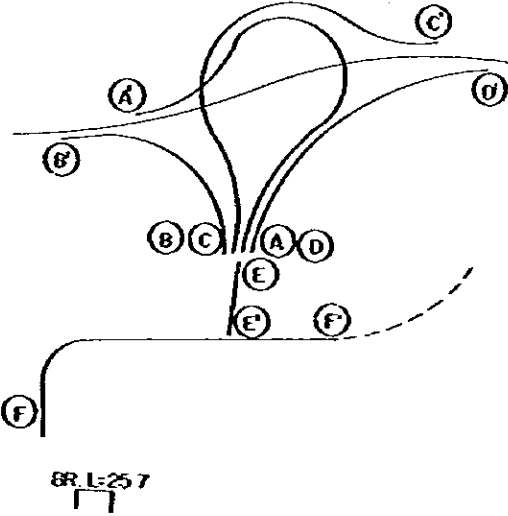


PROJECT	PROJECT CODE / IS	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	4	19
ANCOL INTERCHANGE			SCALE 1: 5,000	

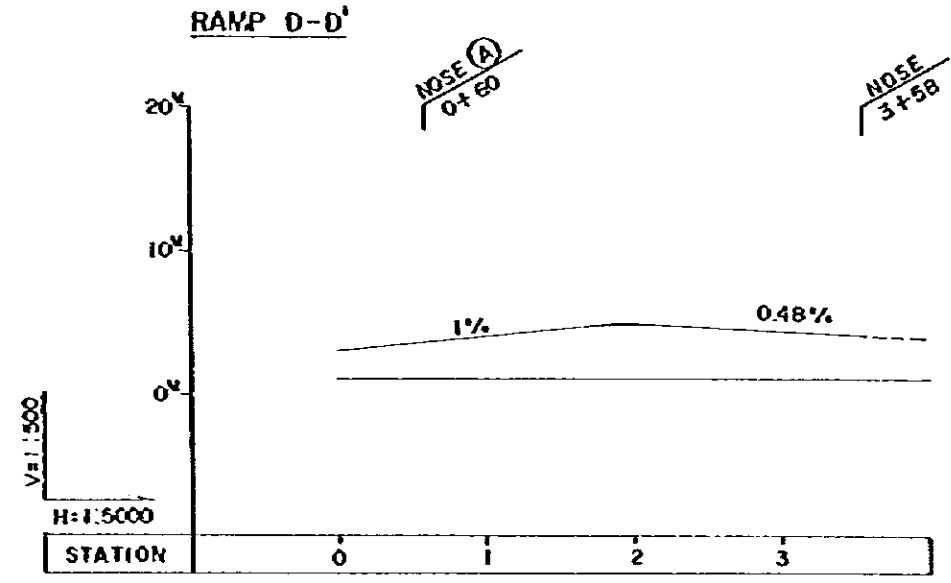
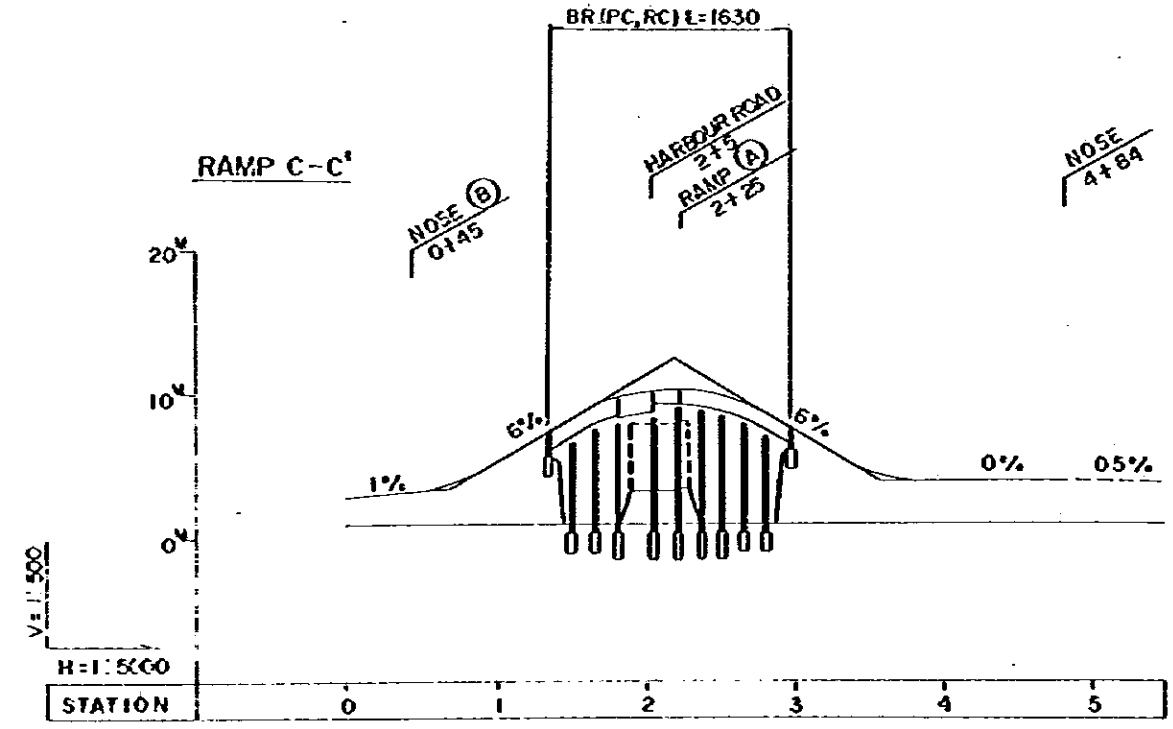
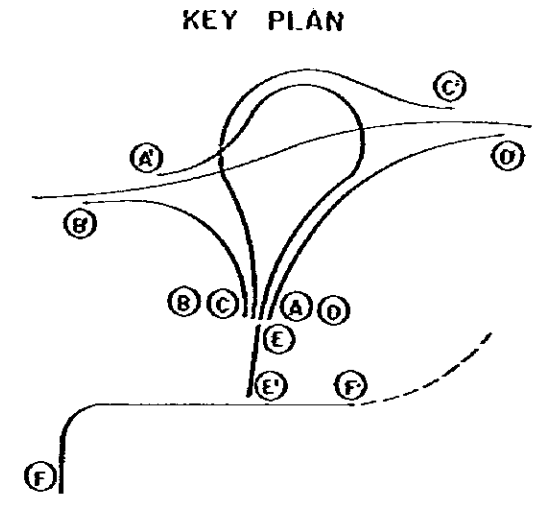
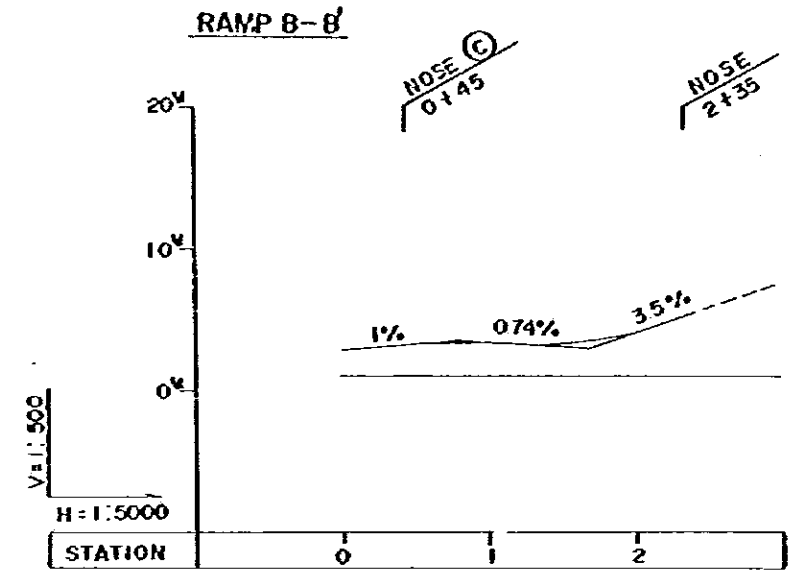
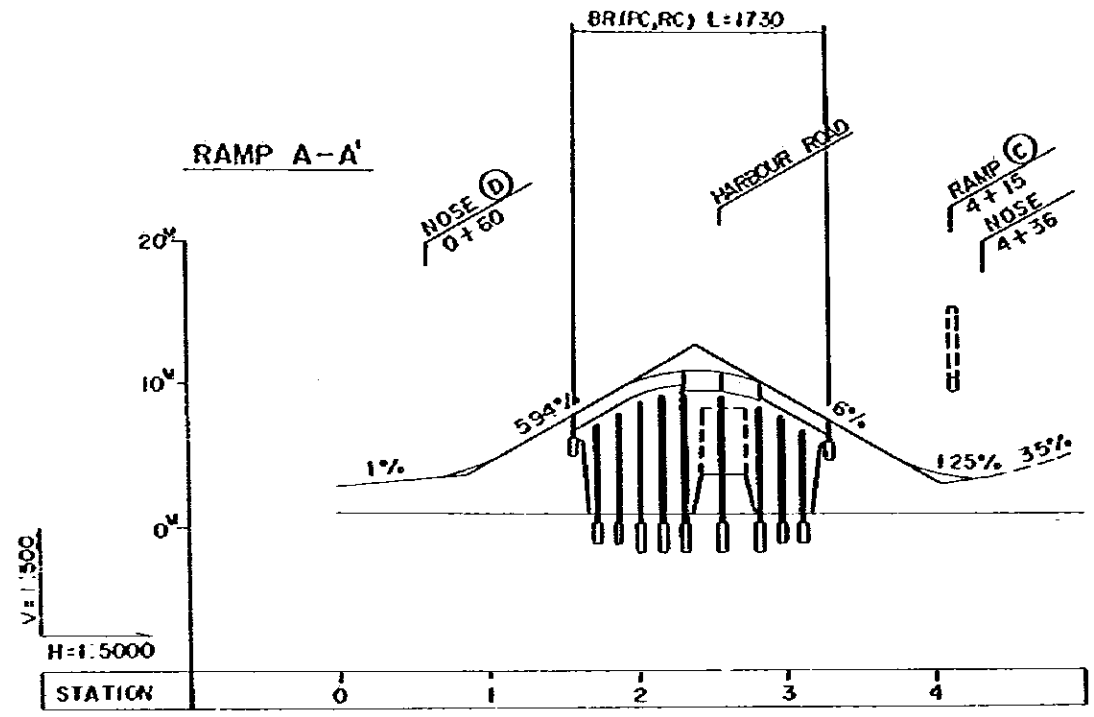


PLAN SCALE 1: 5000

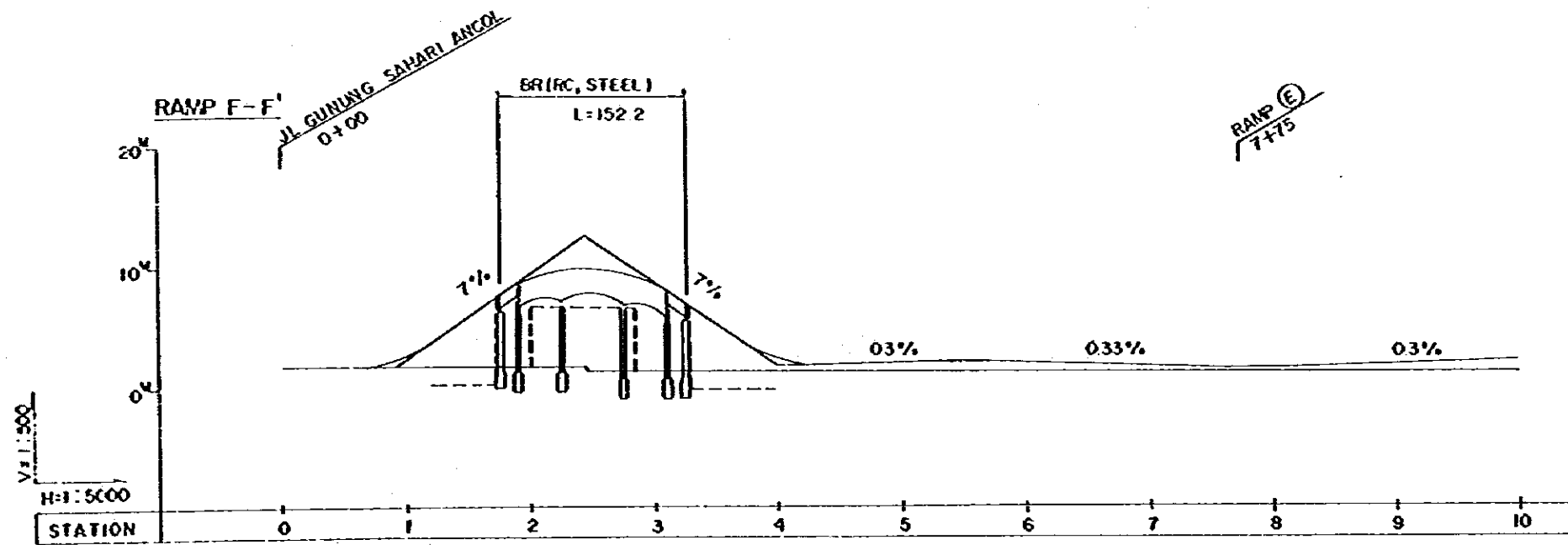
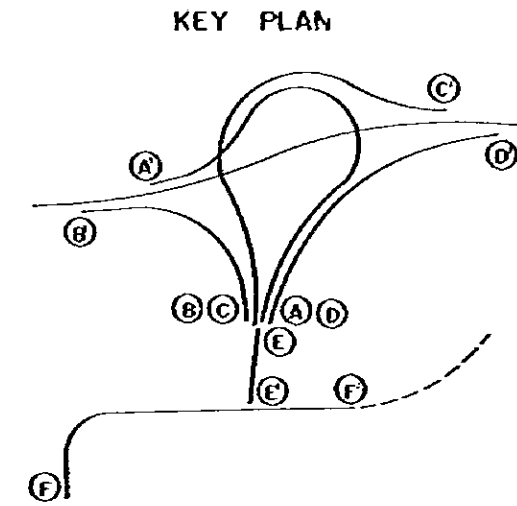
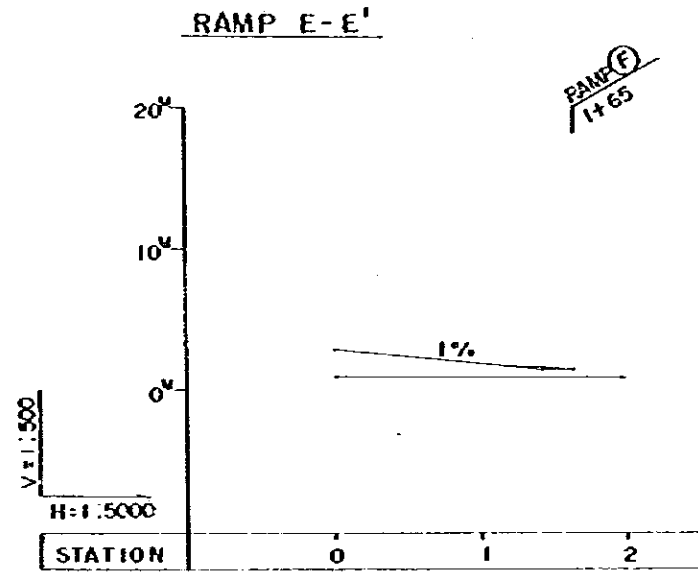
KEY PLAN



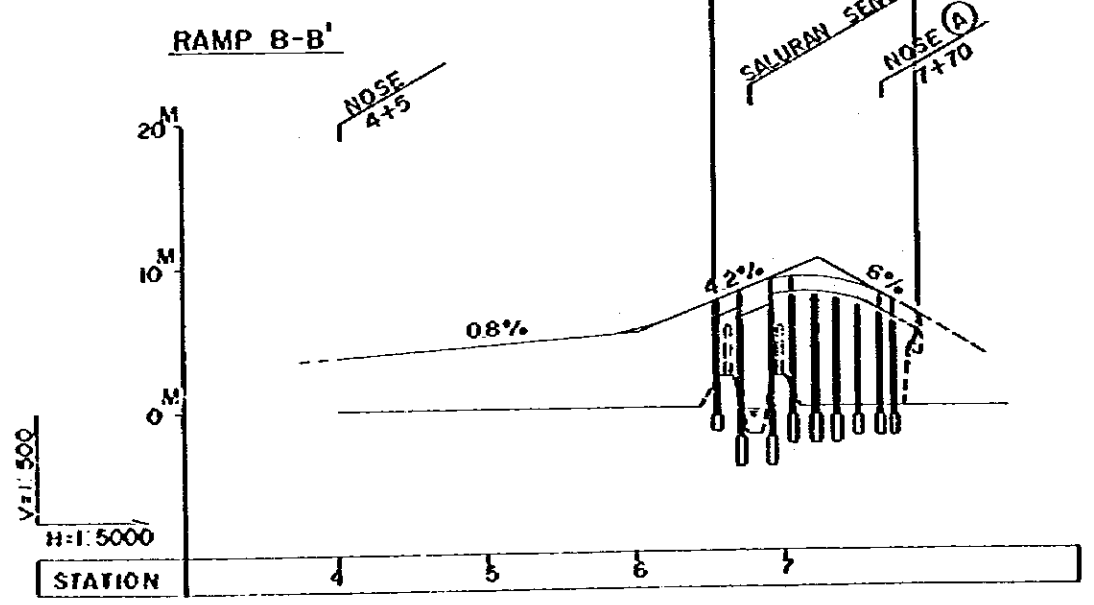
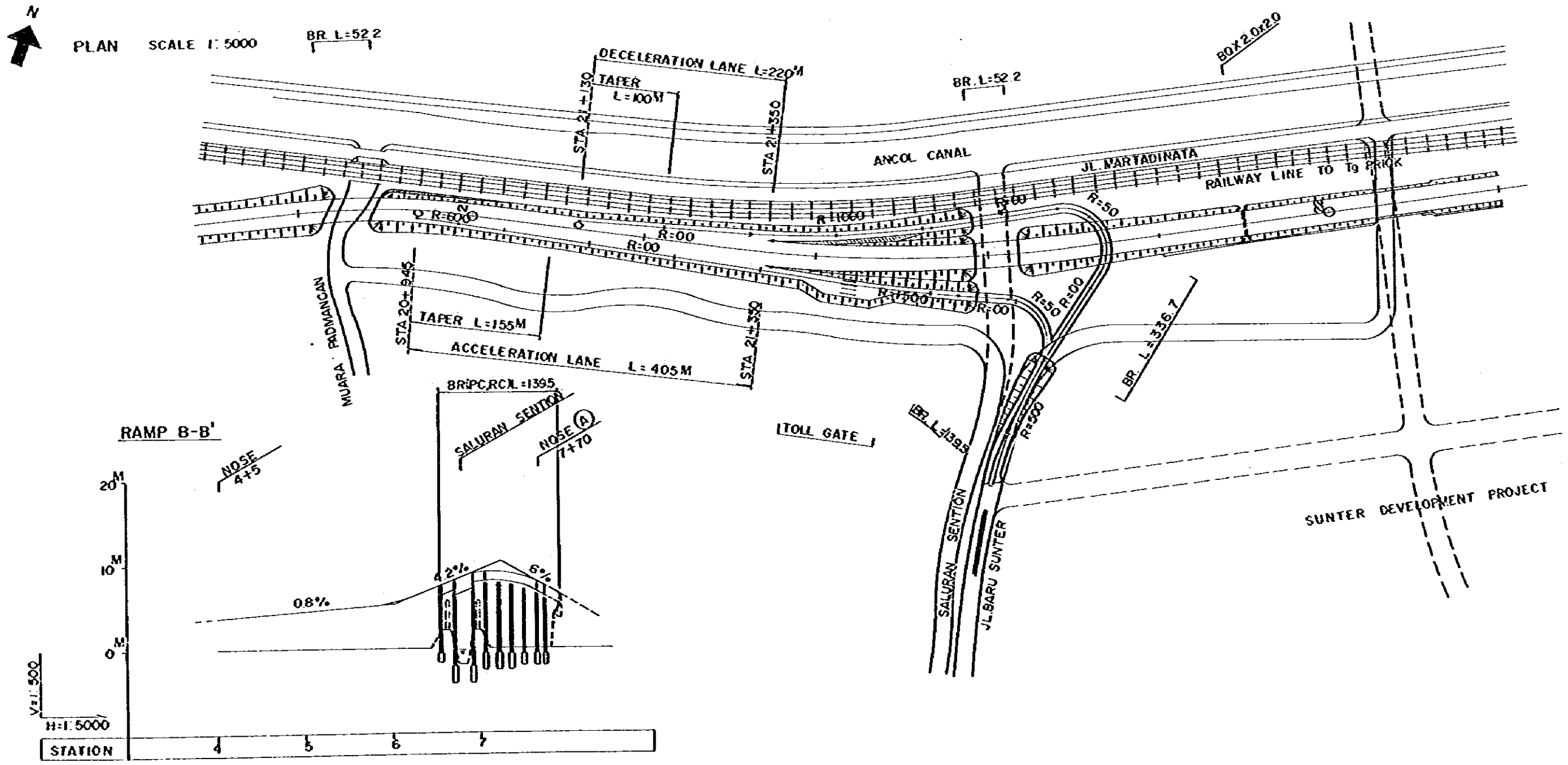
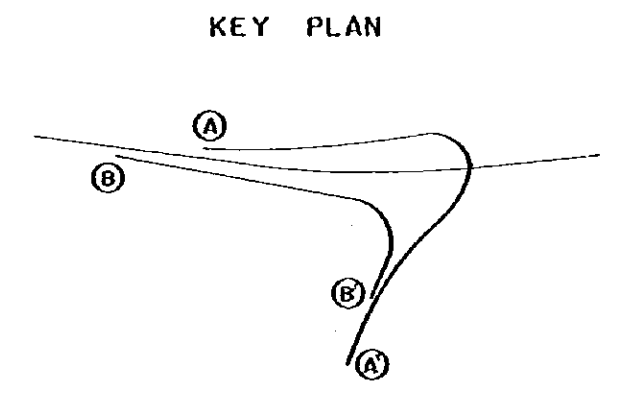
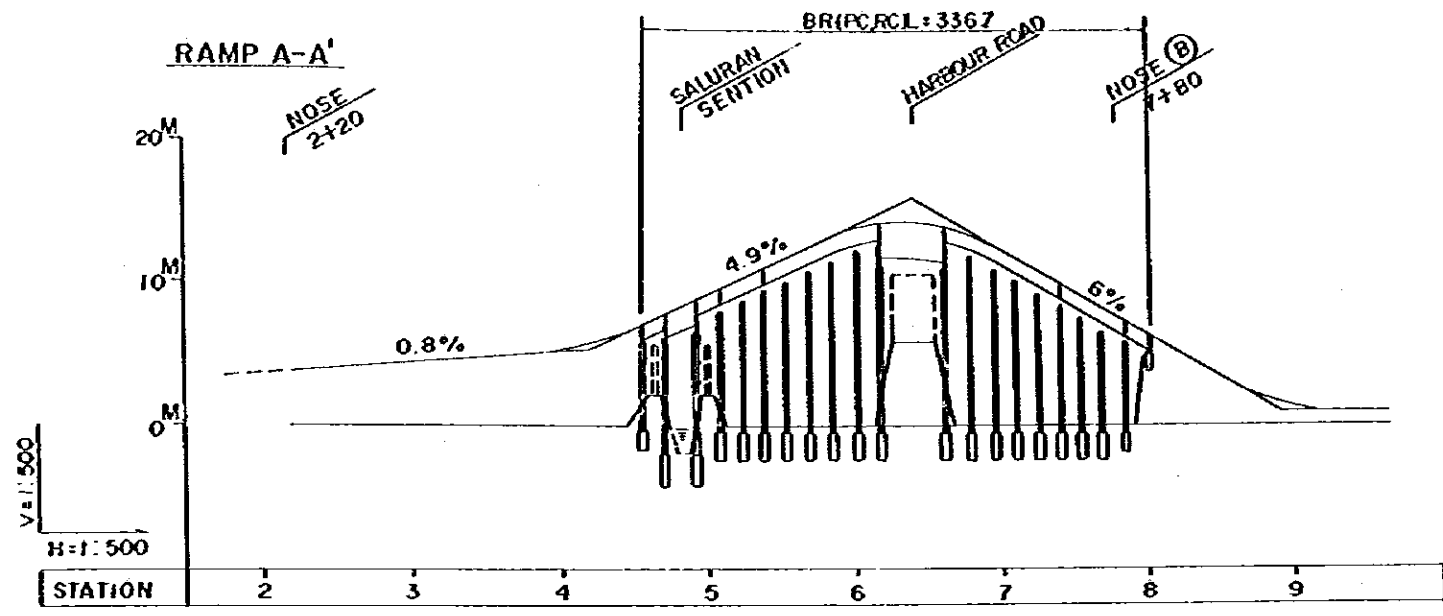
PROJECT	PROJECT CODE / TR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	5	19
ANCOL INTERCHANGE			SCALE $\frac{H=3,000}{V=500}$	



PROJECT	PROJECT CODE / LR	PROV. / NCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	6	19
ANCOL INTERCHANGE			SCALE H=1:5,000 V=1:500	



PROJECT	PROJECT CODE / I/R	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	7	19
SUNTER WEST INTERCHANGE			SCALE	H=5,000 V=500

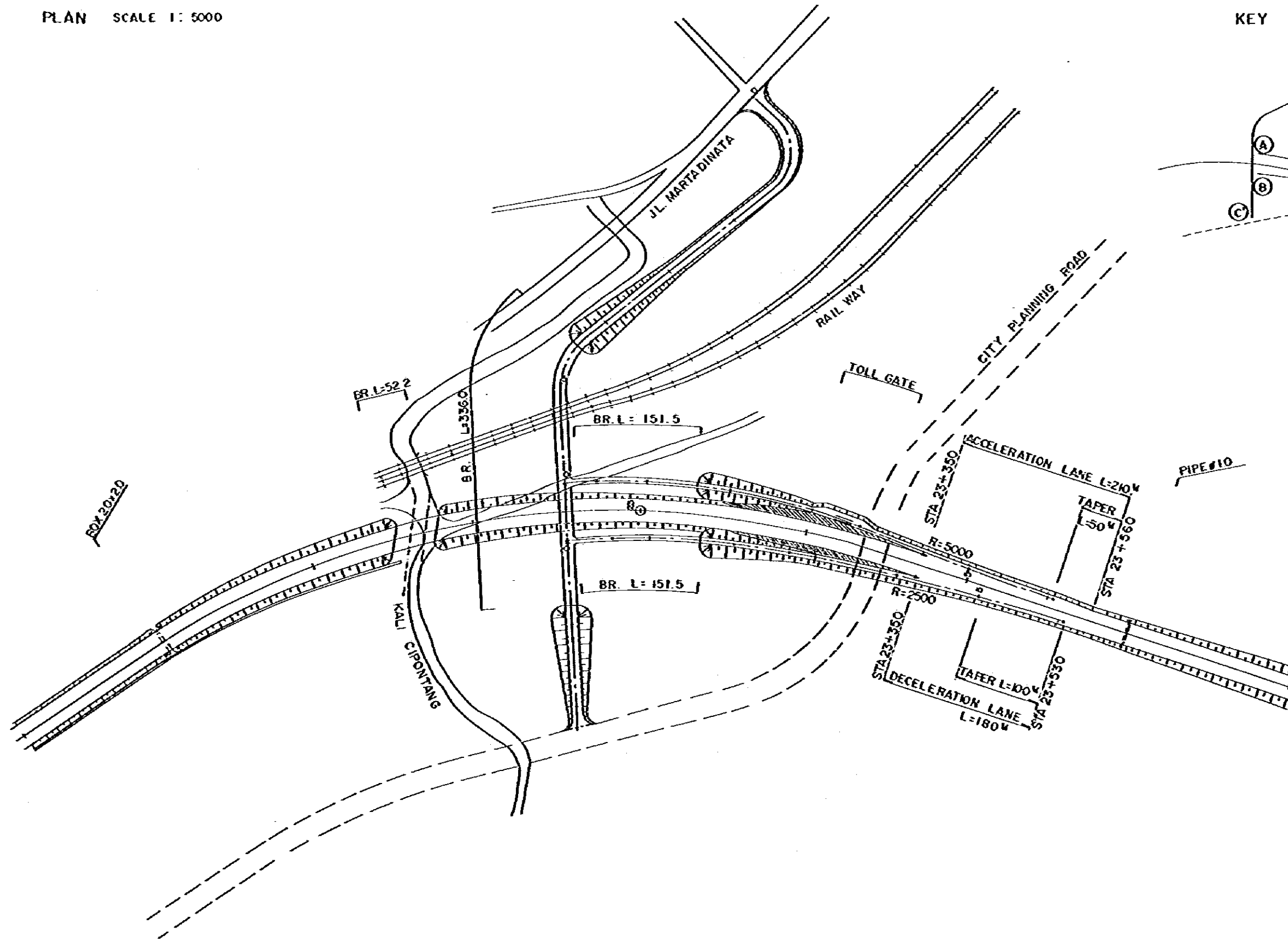
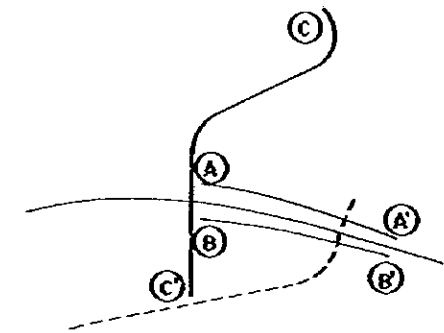


PROJECT	PROJECT CODE / IR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HAPPOUR ROAD		DKI JKT	8	19
SUNTER EAST INTERCHANGE			SCALE 1:5,000	



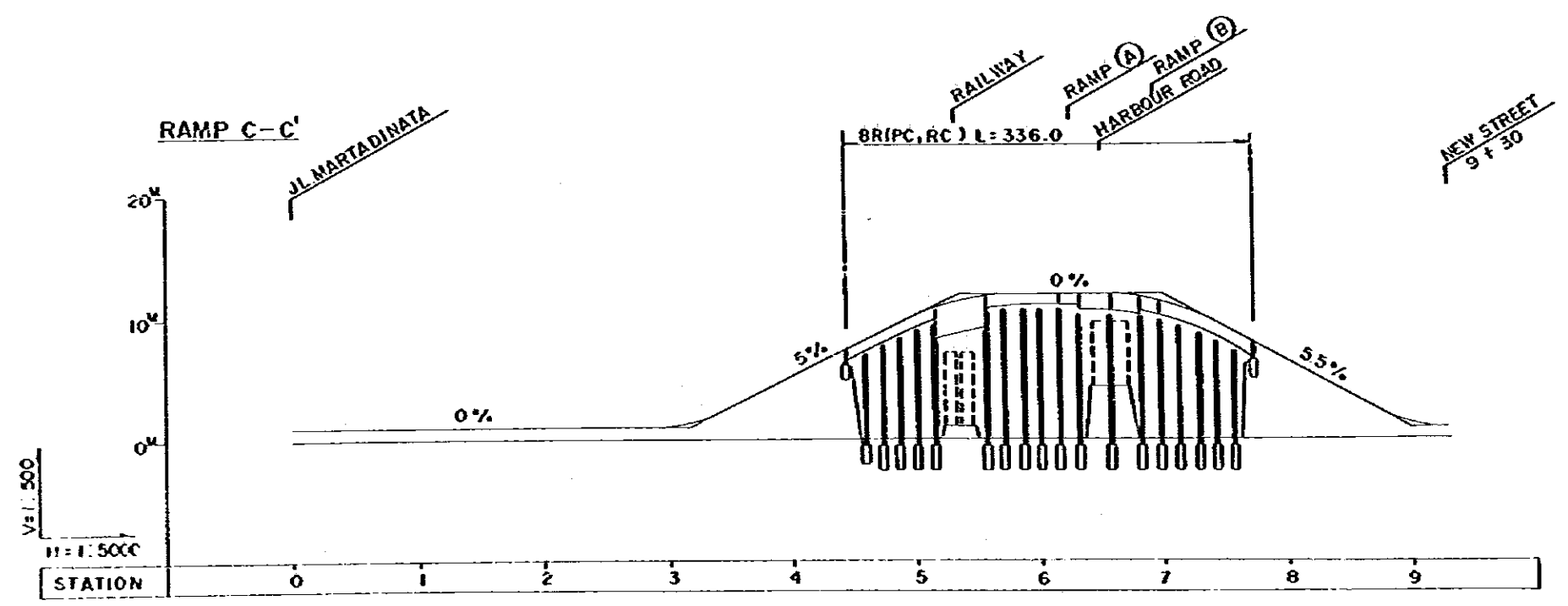
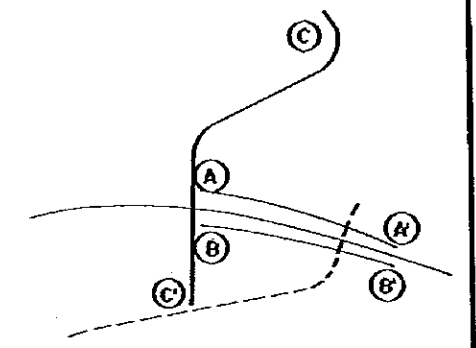
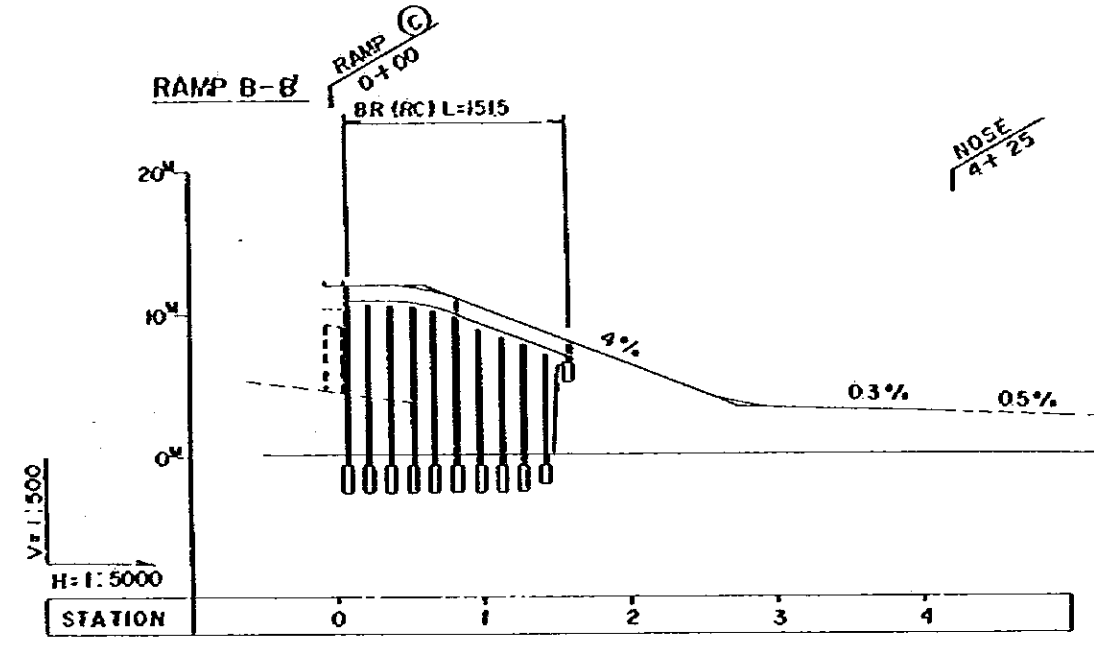
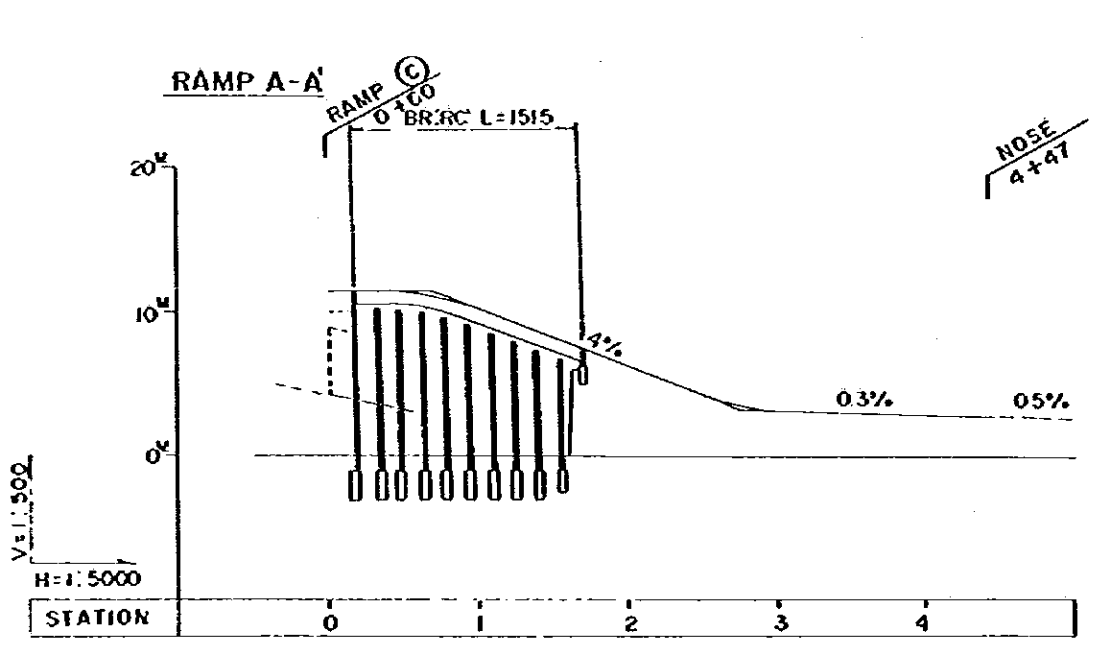
PLAN SCALE 1: 5000

KEY PLAN



PROJECT	PROJECT CODE / I/R	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	9	19
SUNTER EAST INTERCHANGE				SCALE $\frac{H=5,000}{V=500}$

KEY PLAN

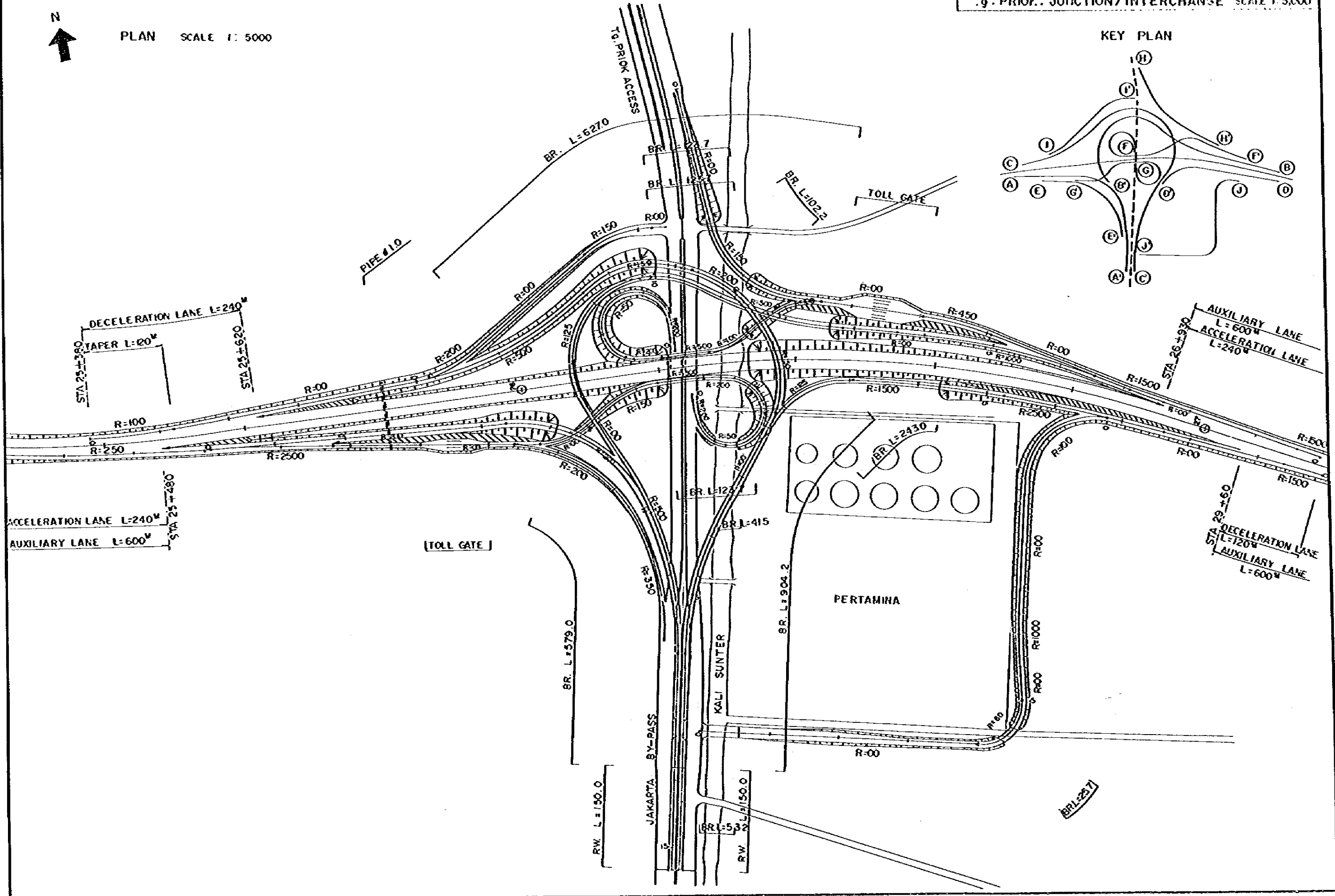
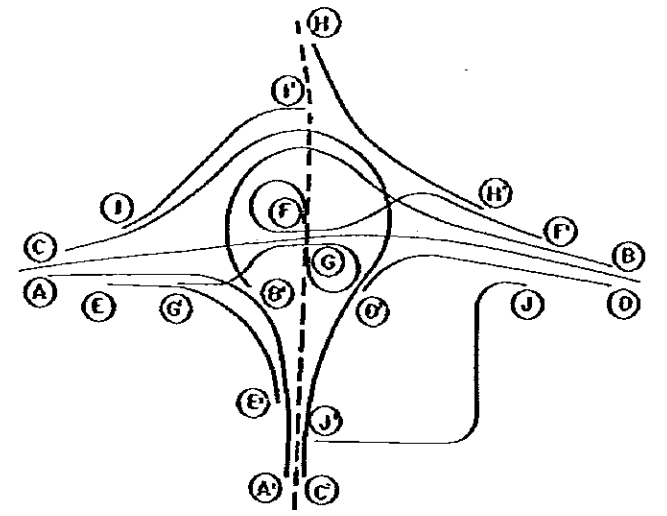


PROJECT	PROJECT CODE/TR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	10	19
Tg. Priok. Junction/Interchange				SCALE 1:5,000

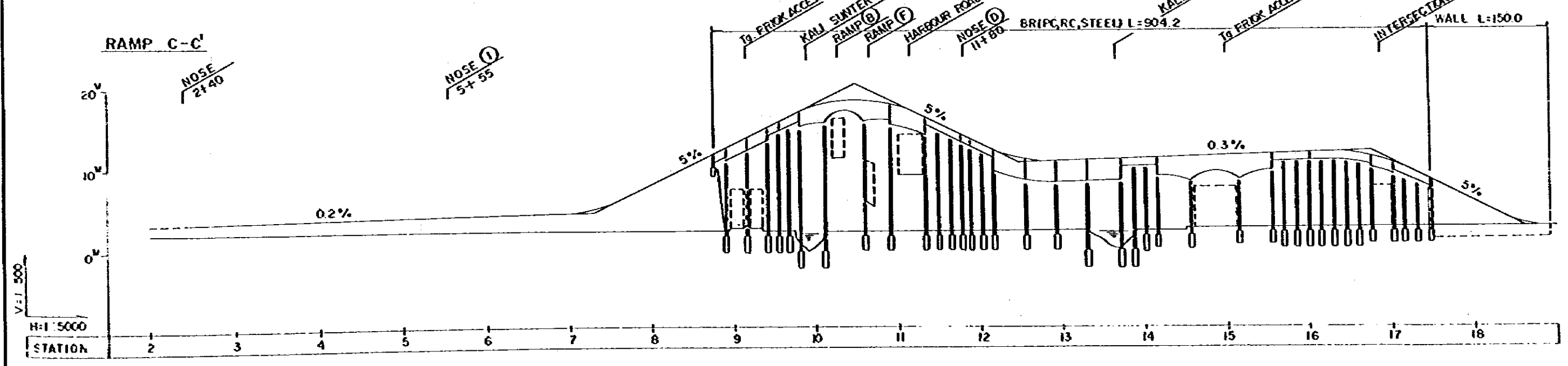
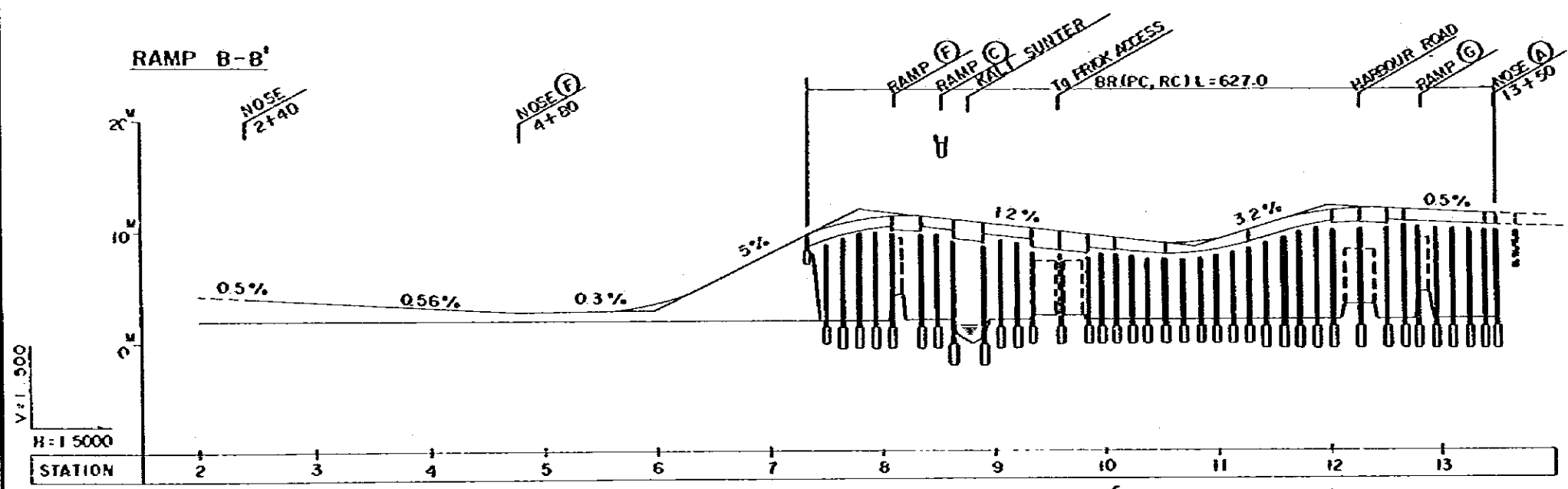
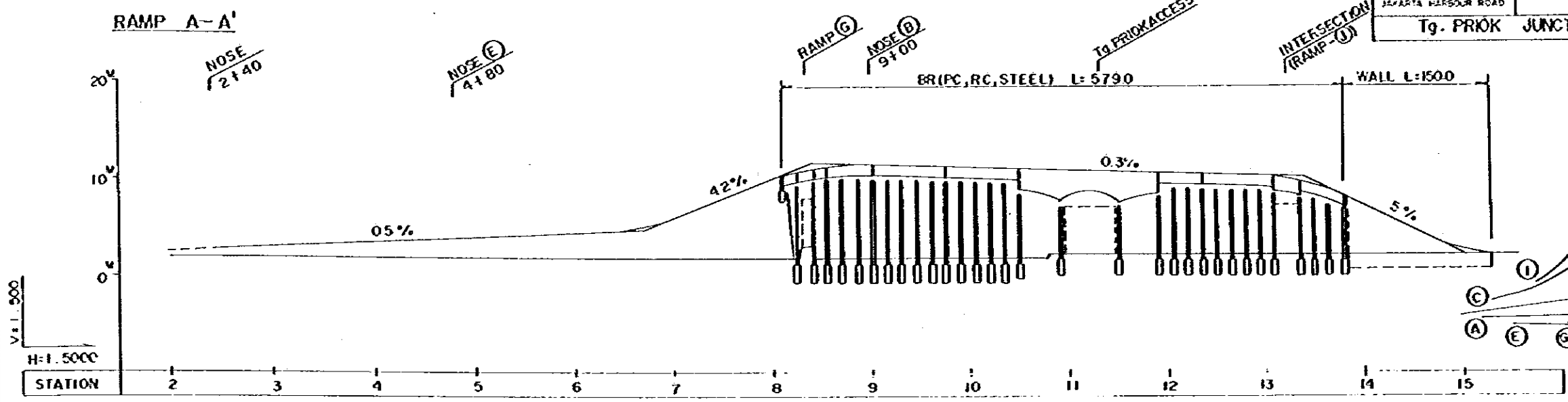


PLAN SCALE 1:5000

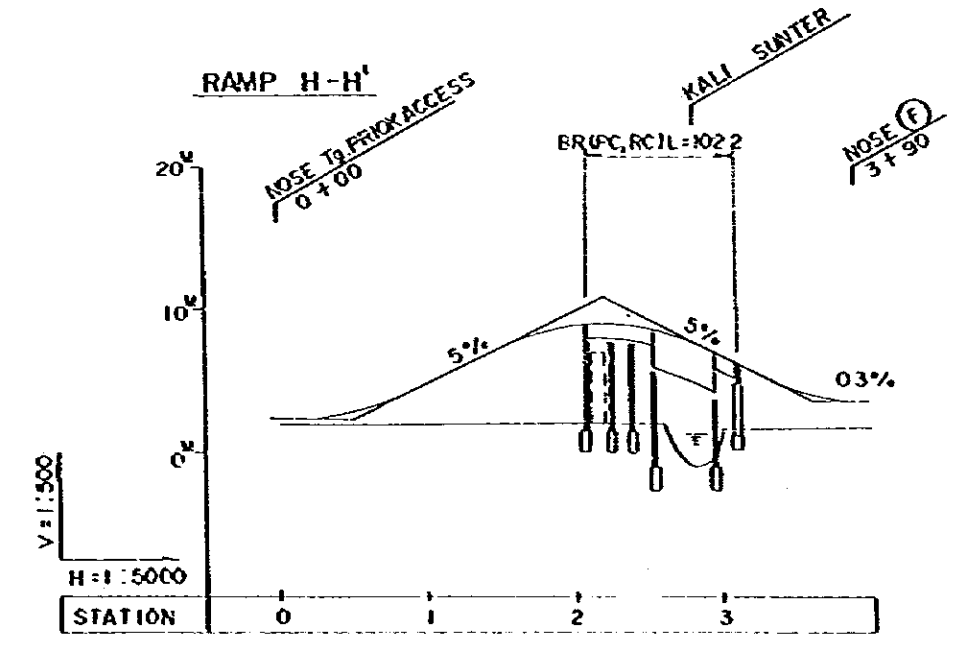
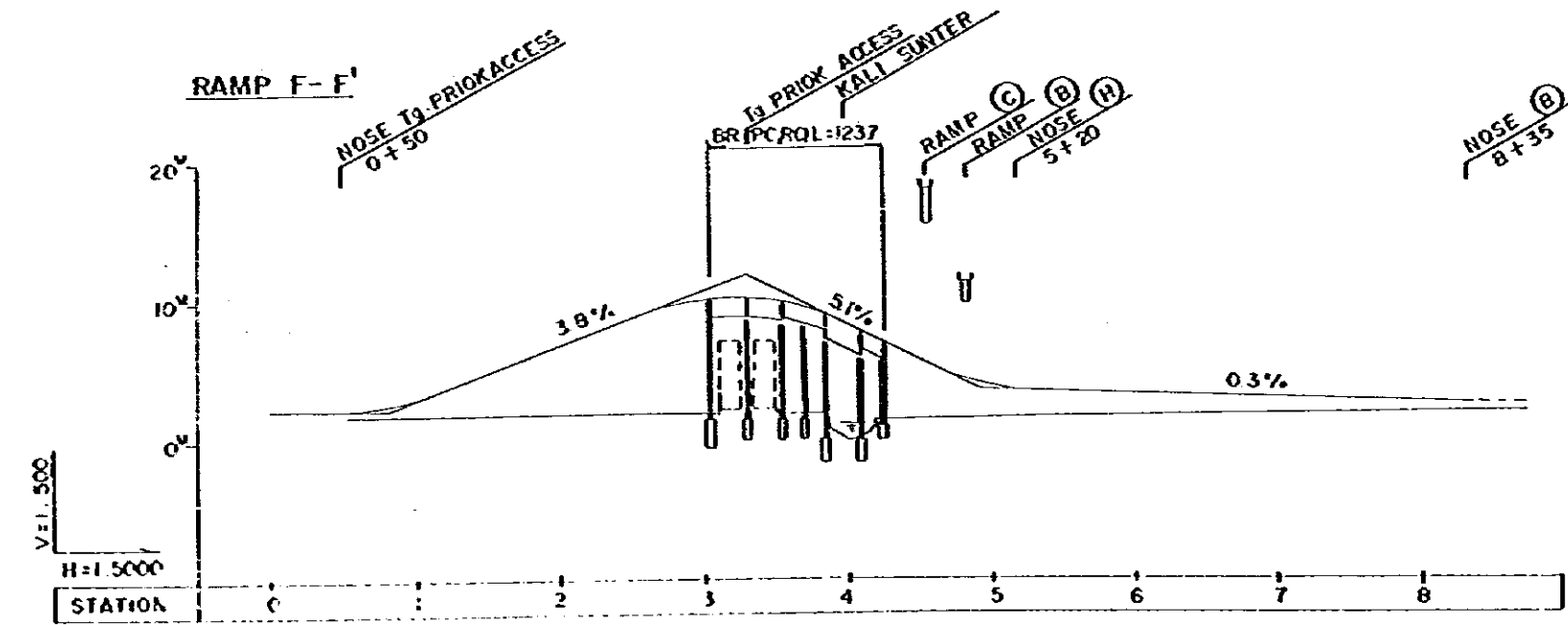
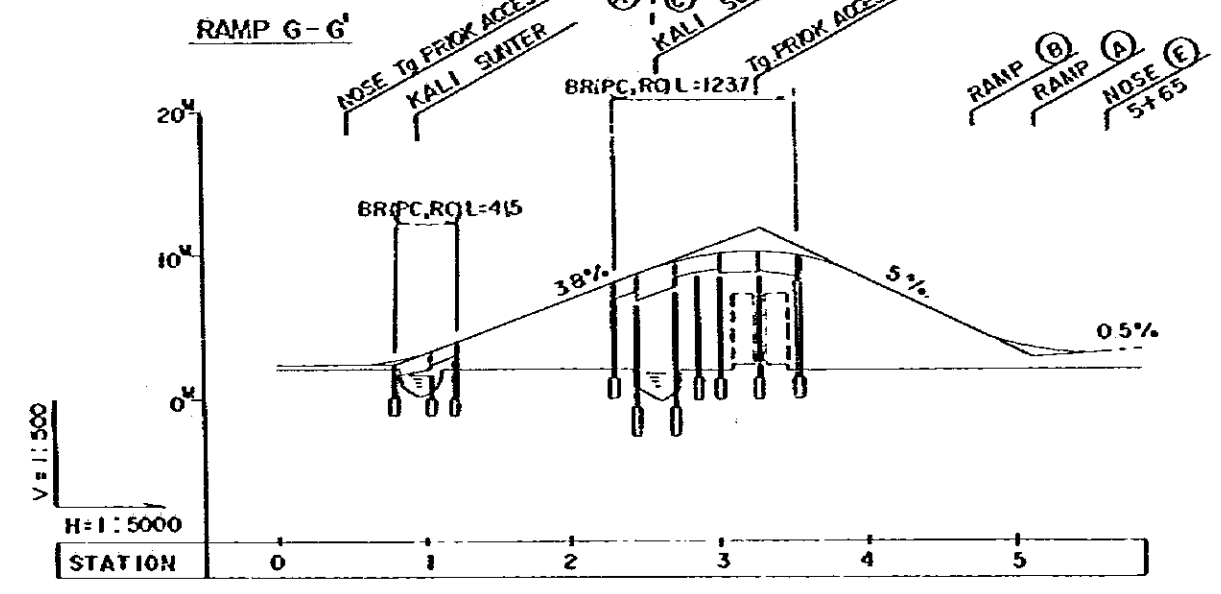
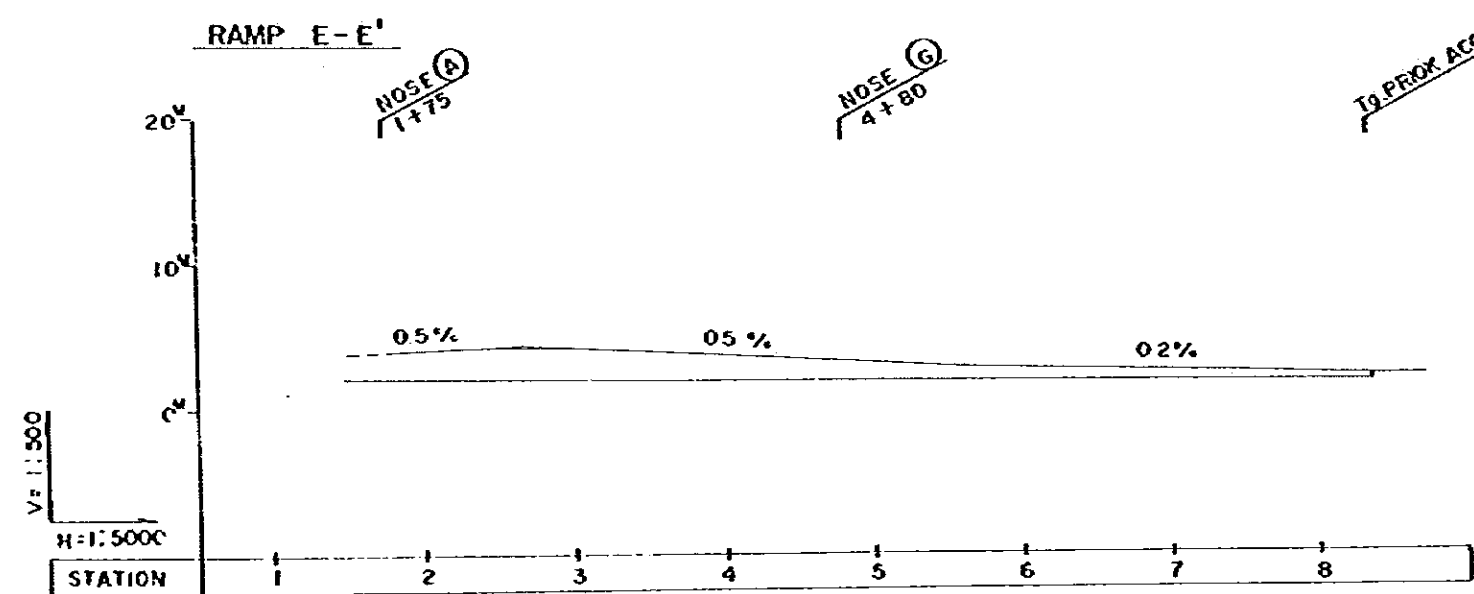
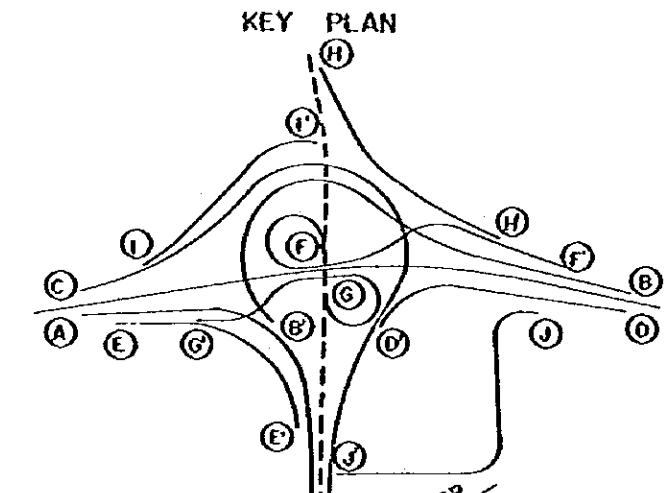
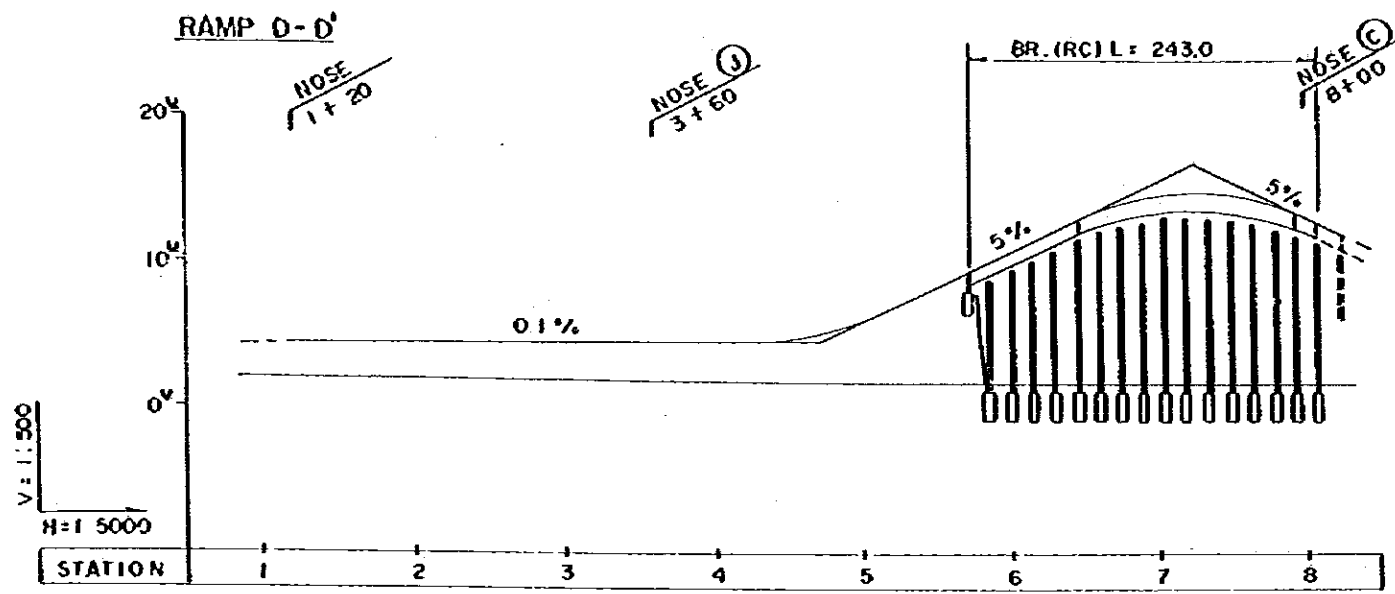
KEY PLAN



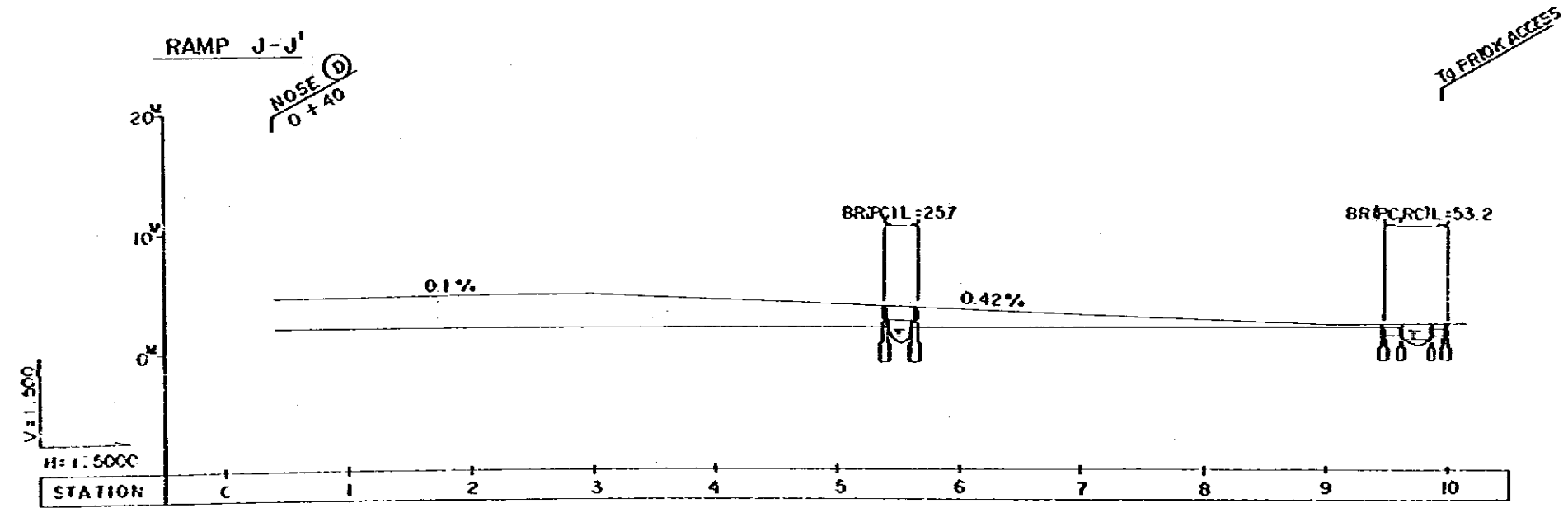
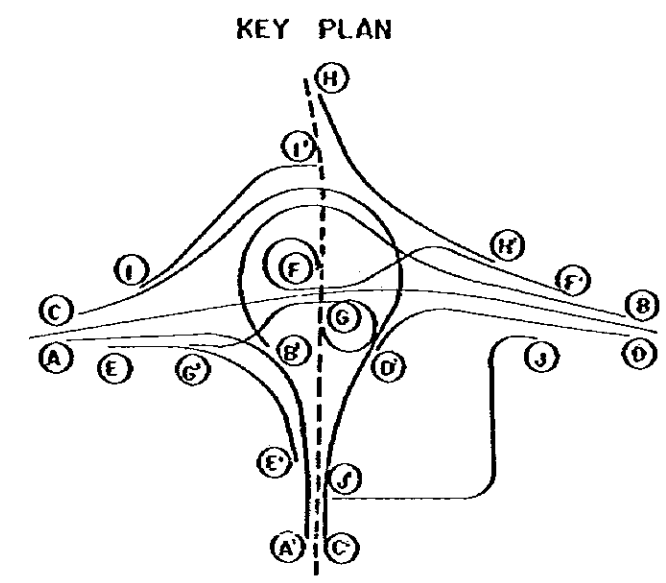
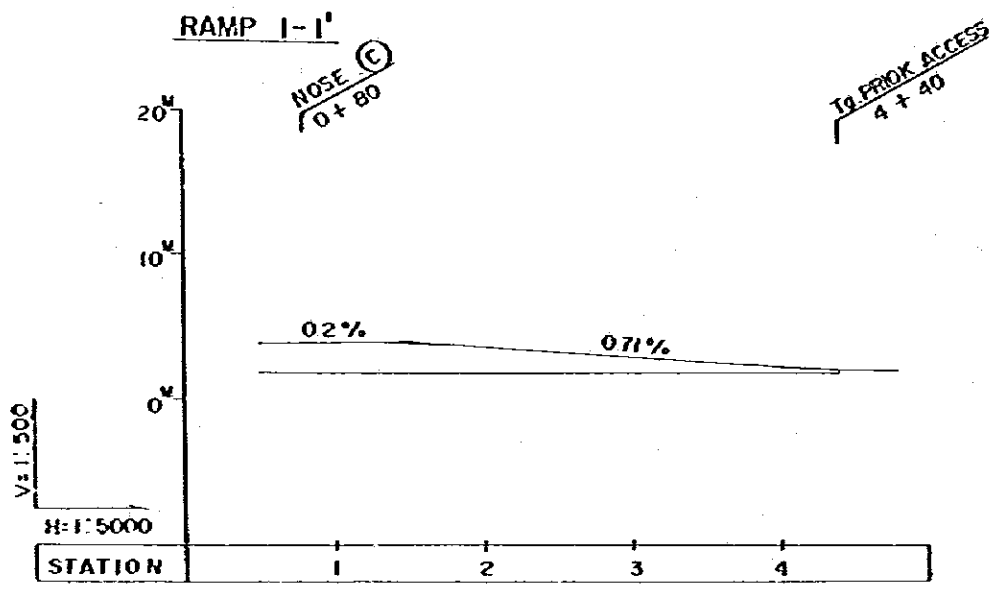
PROJECT	PROJECT CODE / NO	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	11	19
Tg. PRIOK JUNCTION/INTERCHANGE			SCALE	H=5,000 V=50'



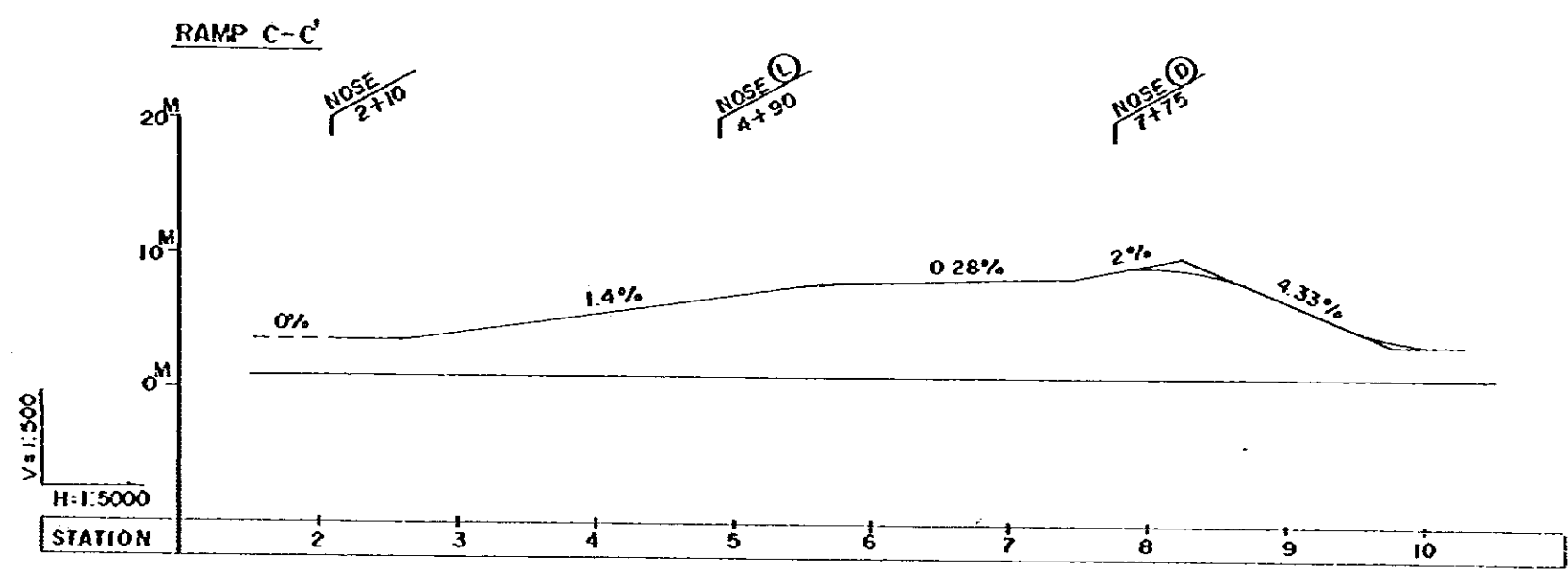
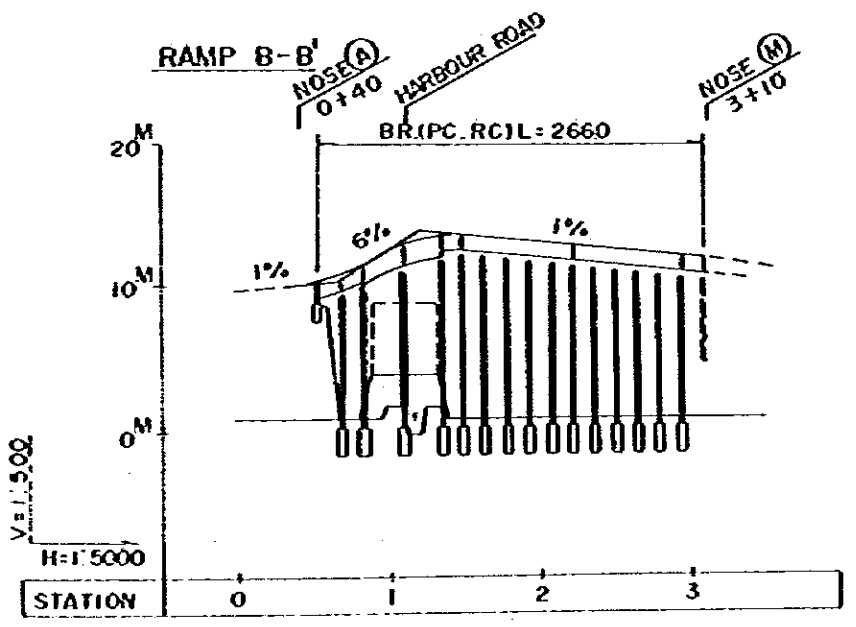
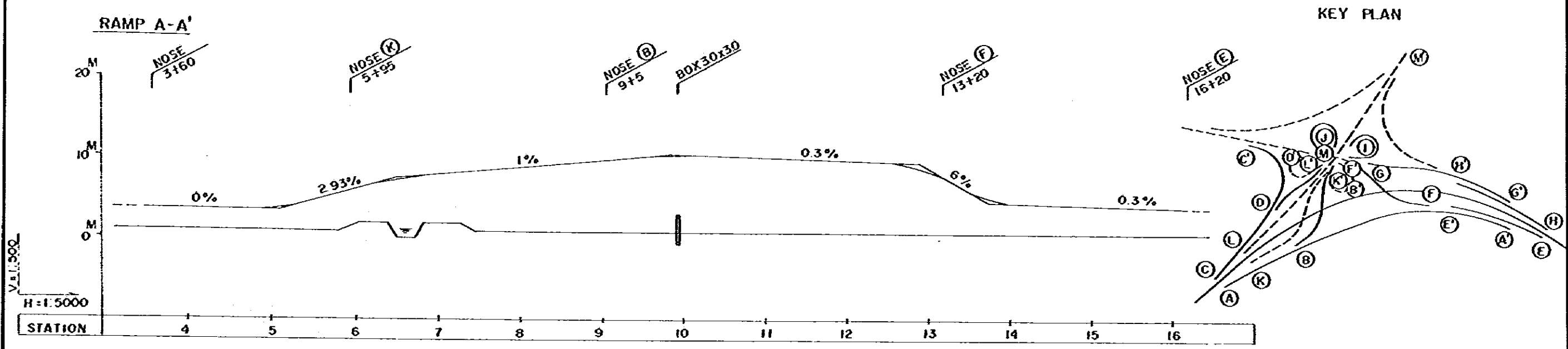
PROJECT	PROJECT CODE / YR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	12	13
Tg. PRIOK JUNCTION/INTERCHANGE			SCALE H=5000 V=500	



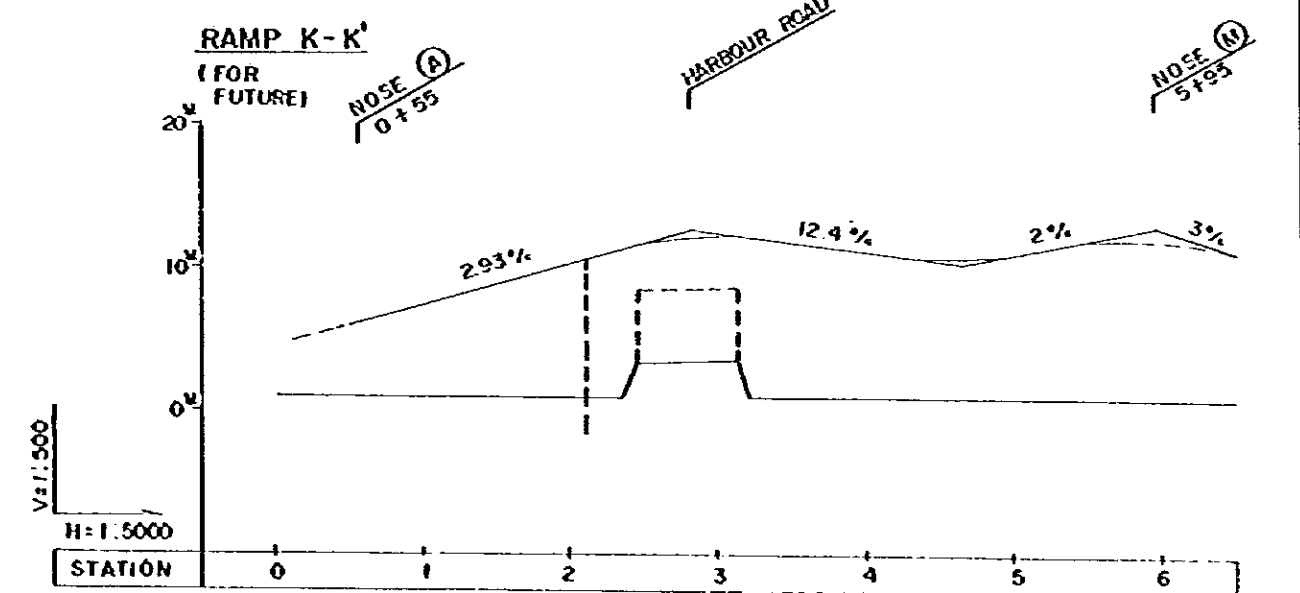
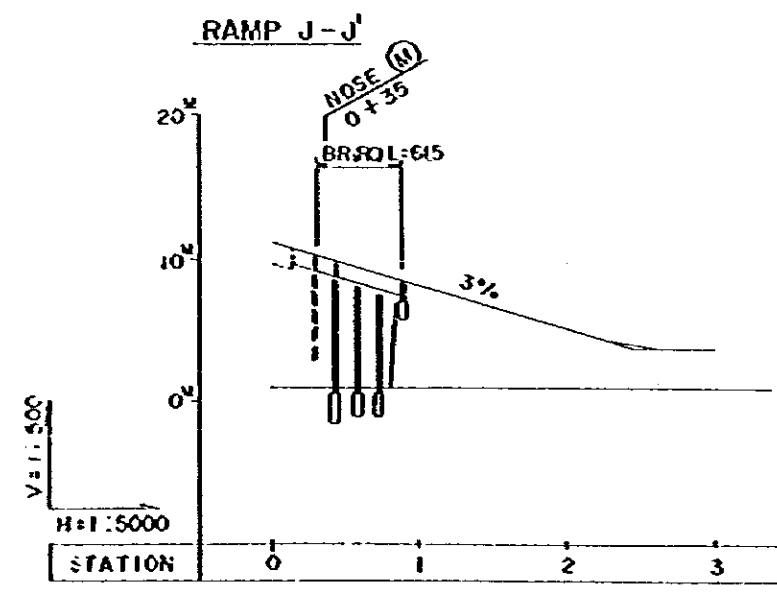
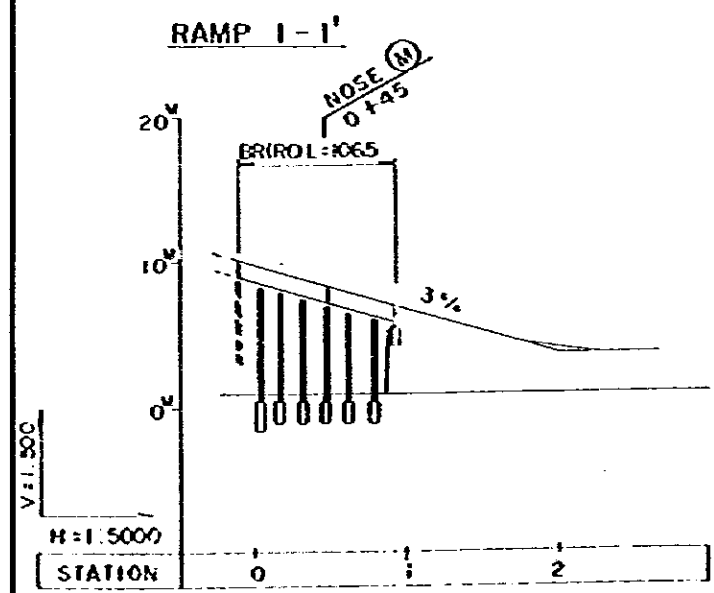
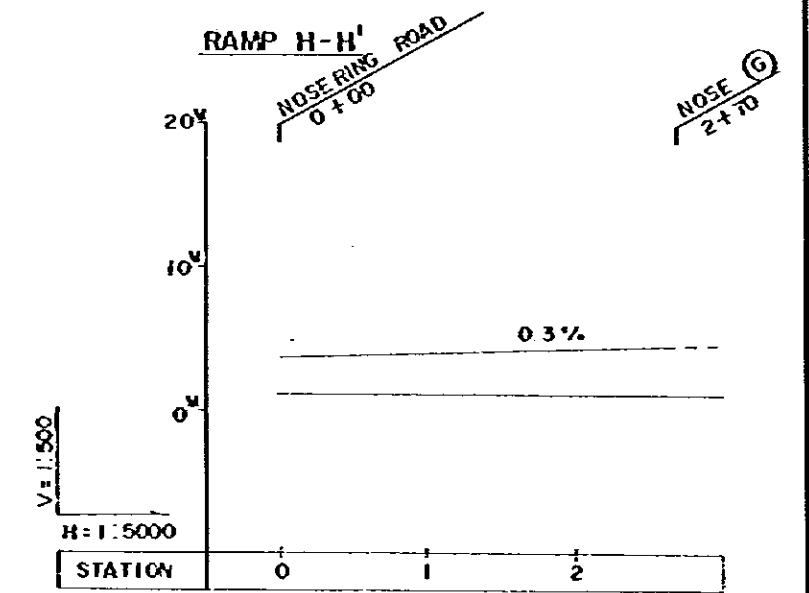
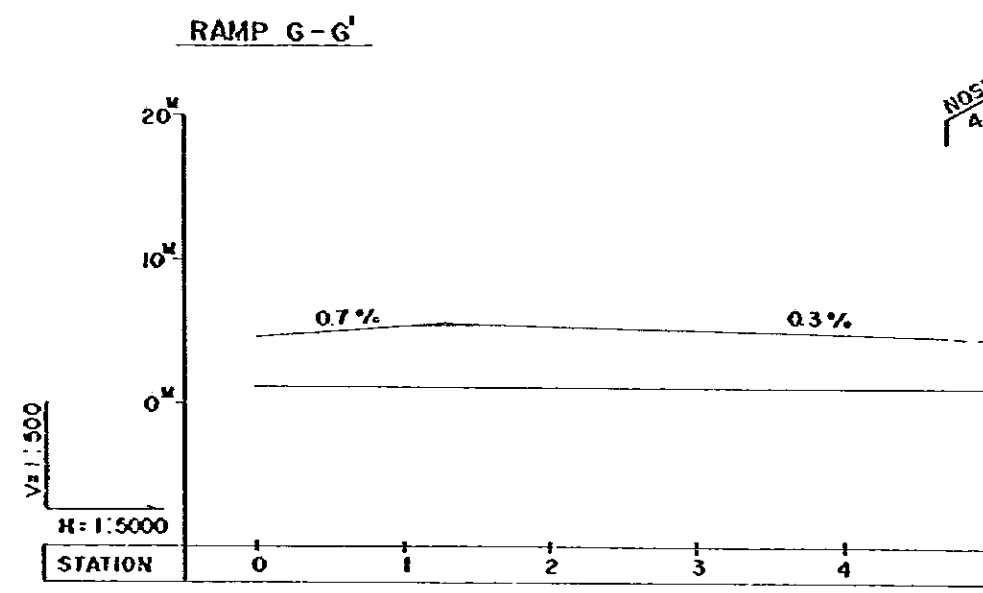
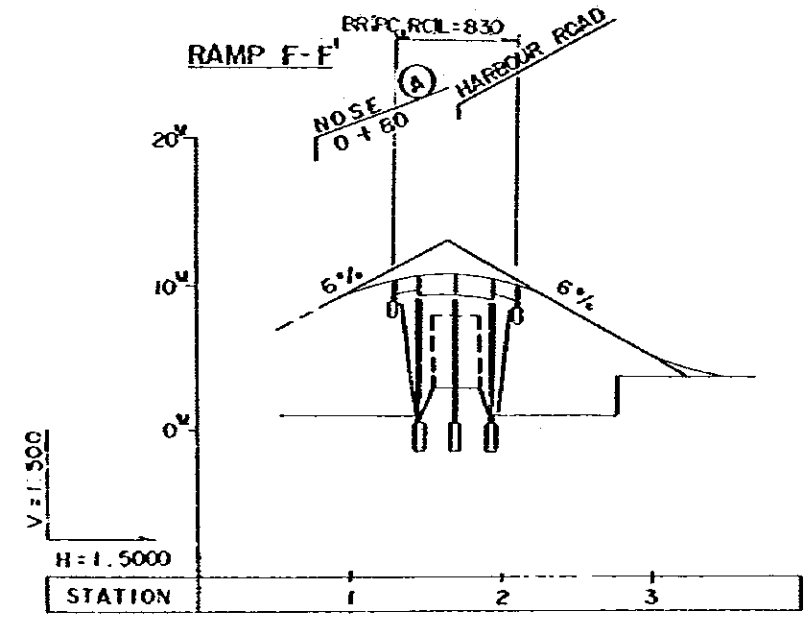
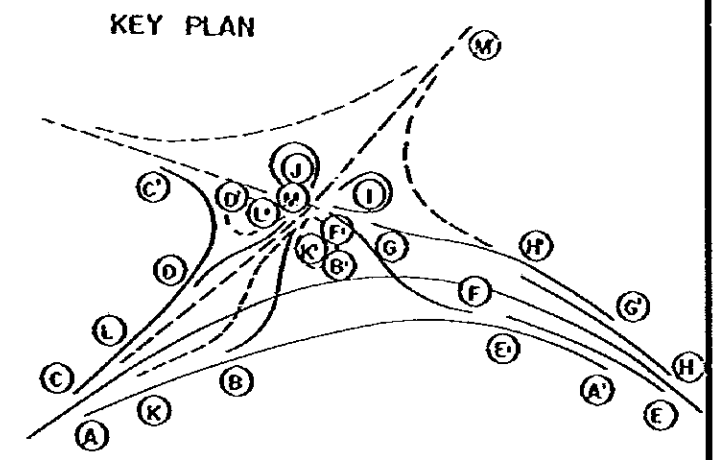
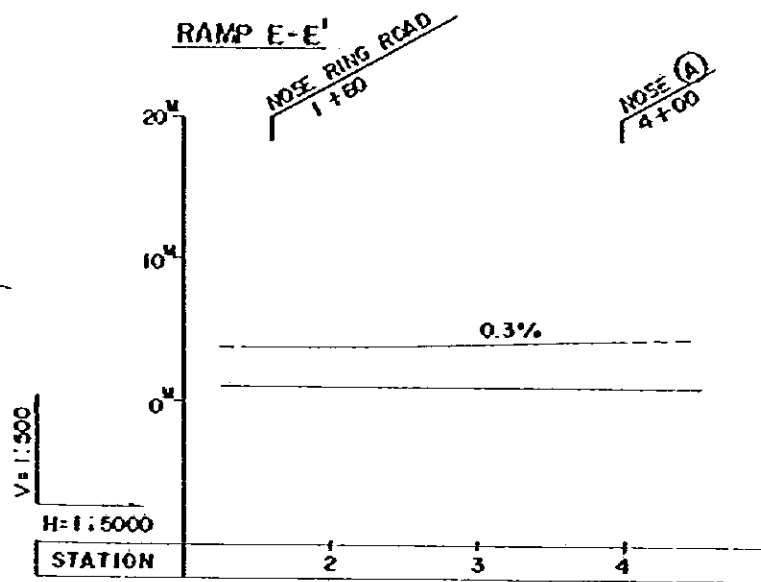
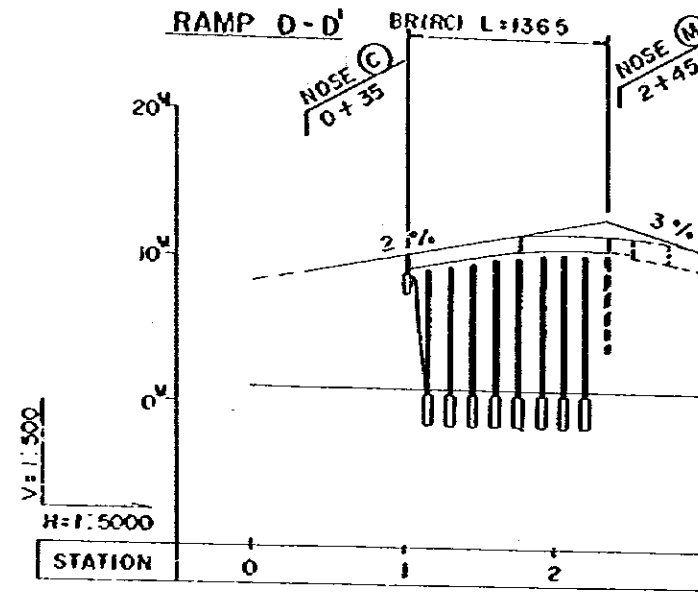
PROJECT	PROJECT CODE / TR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA METRO R ROAD		DKI JKT	13	19
Tg. PRIOK JUNCTION/INTERCHANGE				SCALE $\frac{H=5,000}{V=500}$



PROJECT	PROJECT CODE / YR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	15	19
CILINCING JUNCTION/INTERCHANGE			SCALE H ¹ :5,000 V ¹ :500	

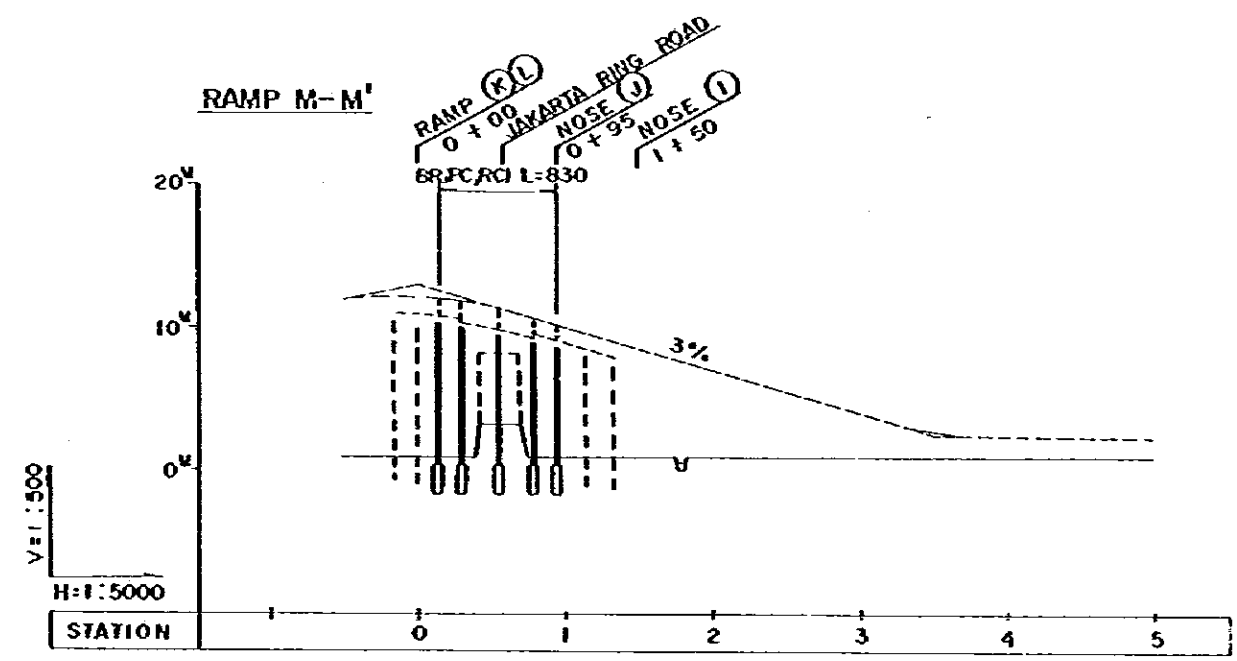
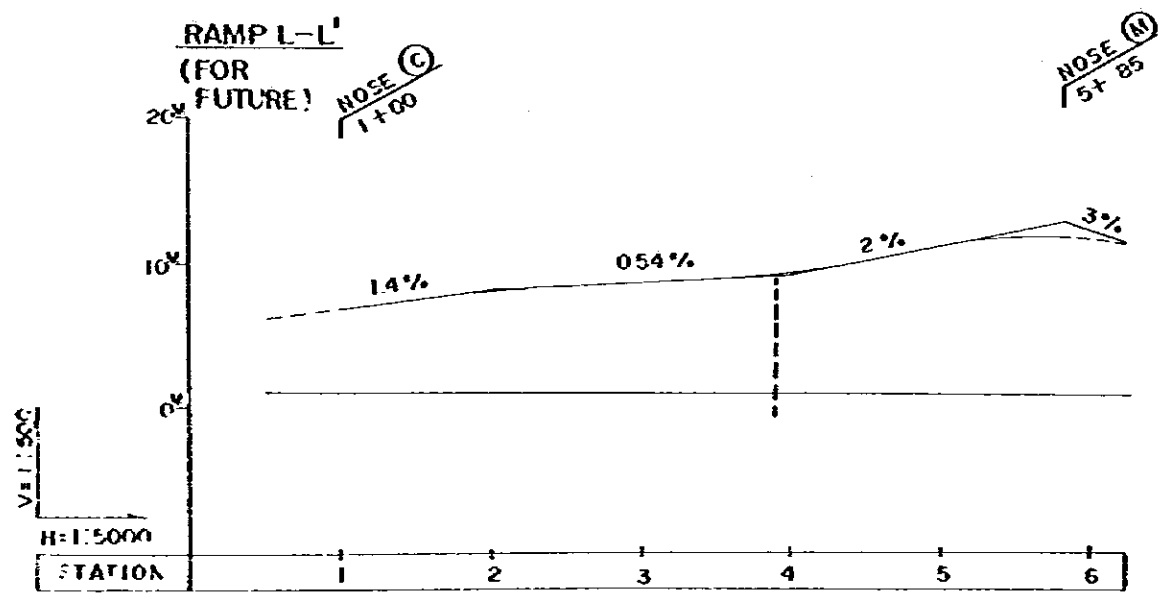
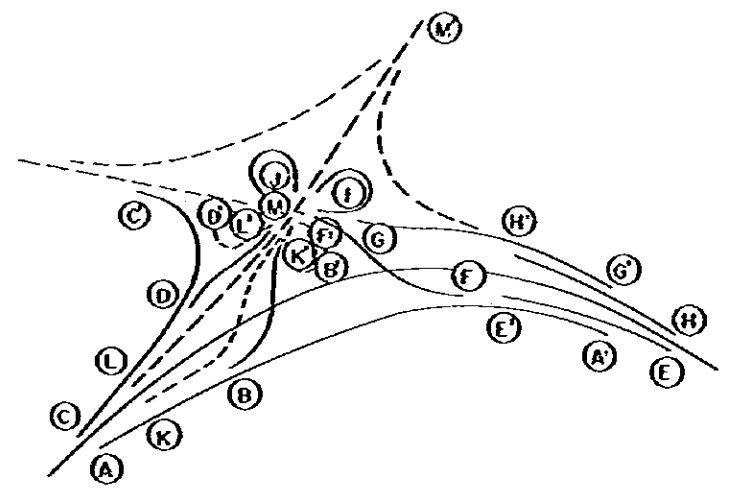


PROJECT	PROJECT CODE / YR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	16	19
CILINCING JUNCTION/INTERCHANGE			SCALE H=5000 V=500	



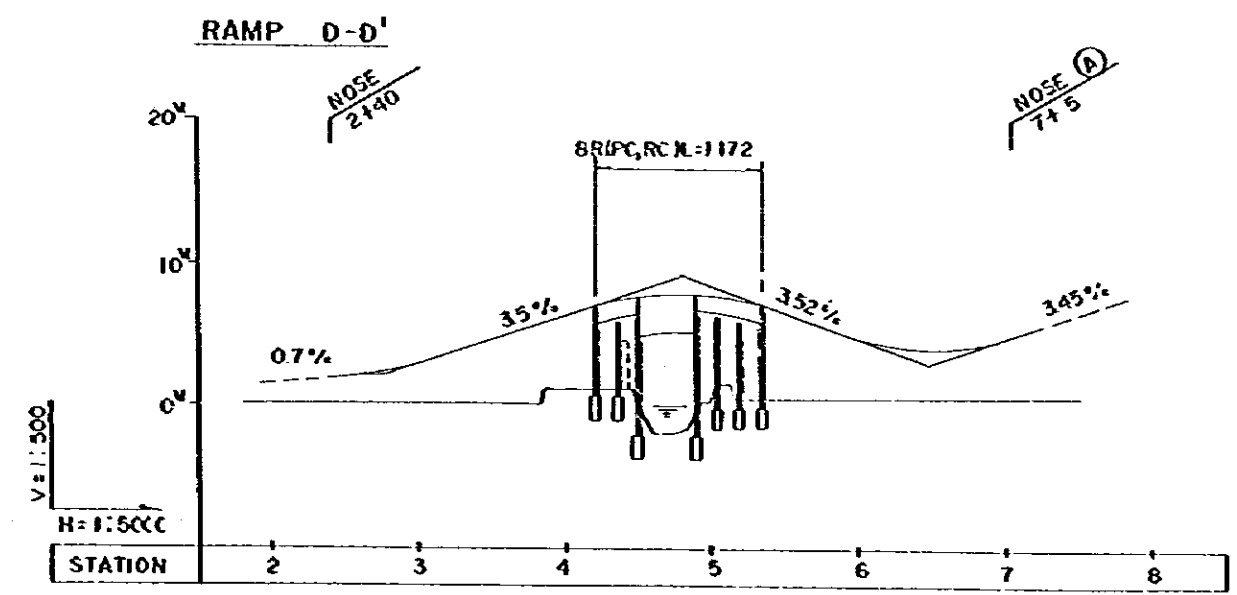
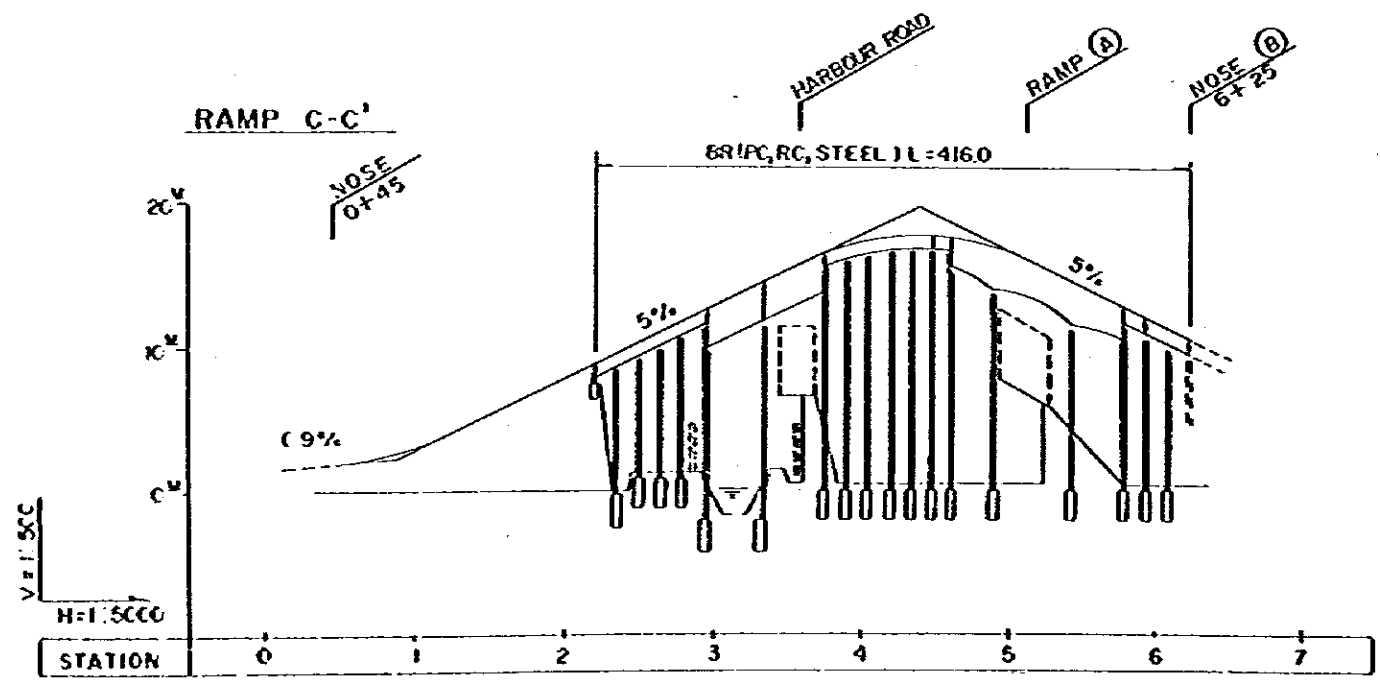
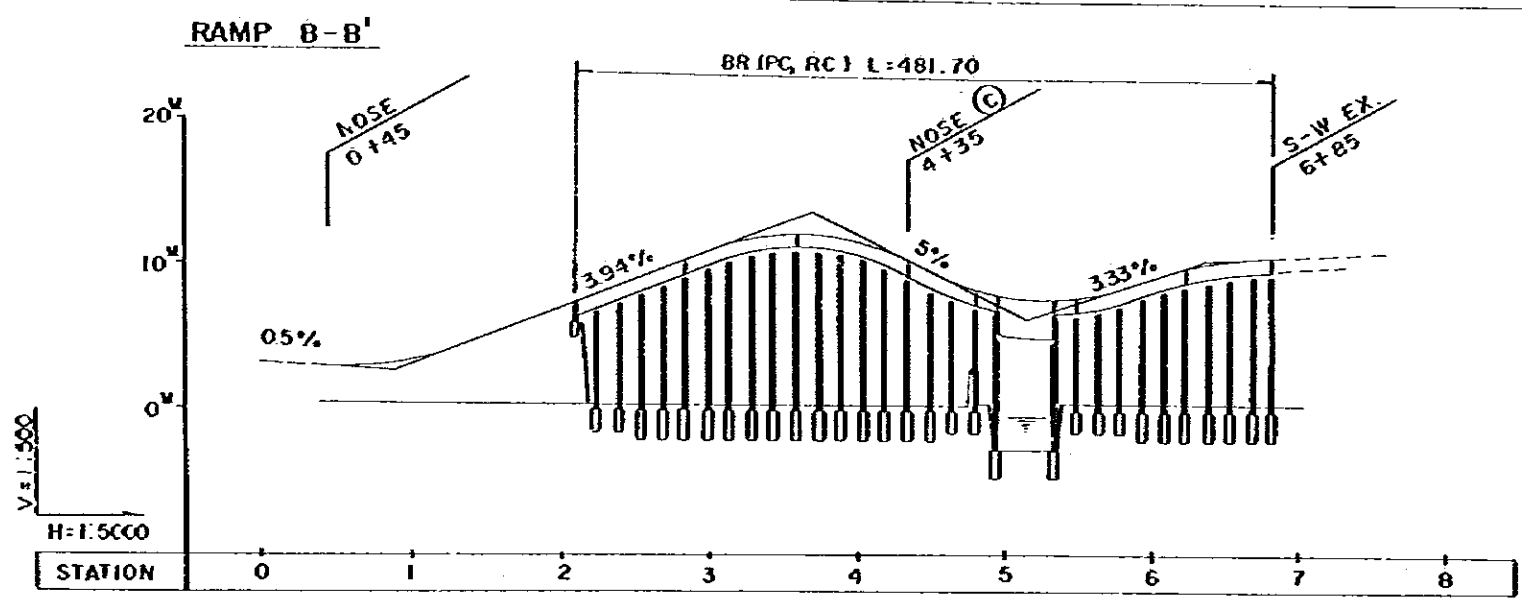
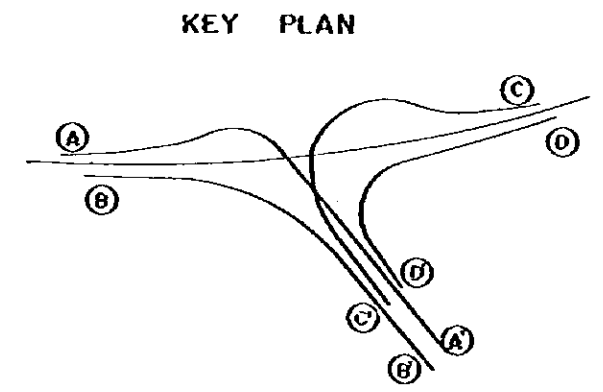
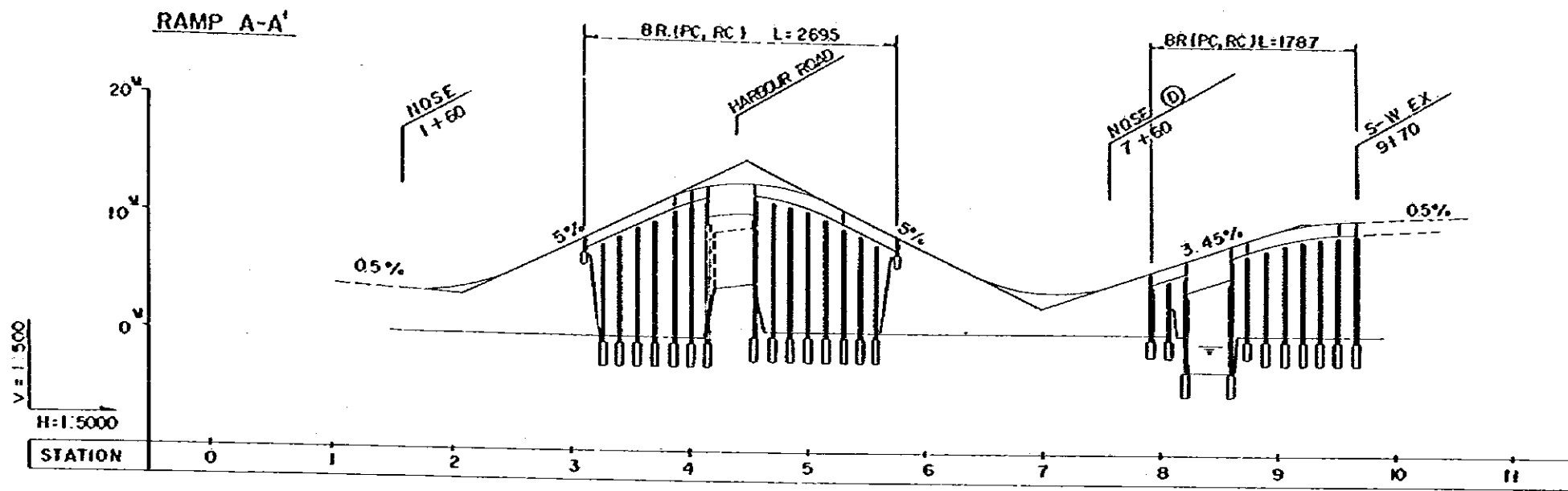
PROJECT	PROJECT CODE / RD	PROVINCE	SHEET NO	TOTAL SHEET
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CILINCING JUNCTION/INTERCHANGE			SCALE	H=5,000 V=500

KEY PLAN

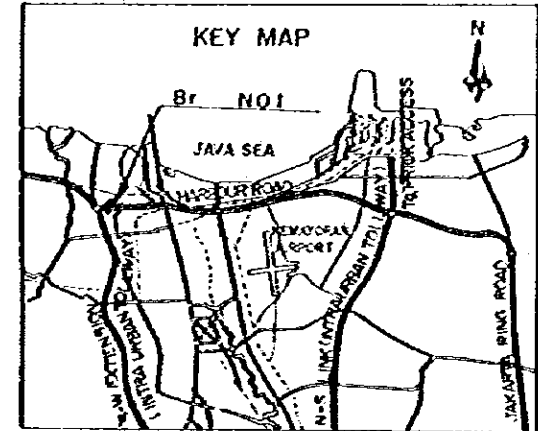


PROJECT	PROJECT CODE / YR	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	19	19

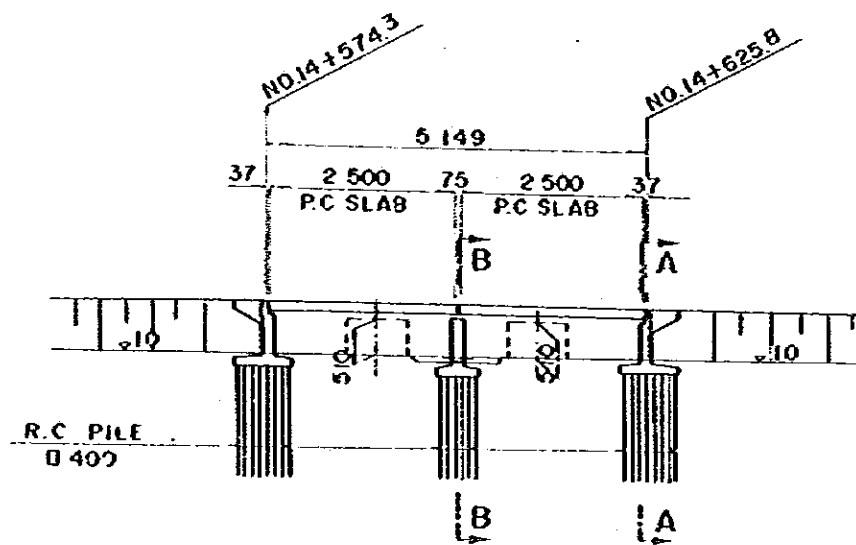
PLUIT INTERCHANGE SCALE $H=5,000$
 $V=500$
 FOR REFERENCE ONLY
 (OUT OF PROJECT)



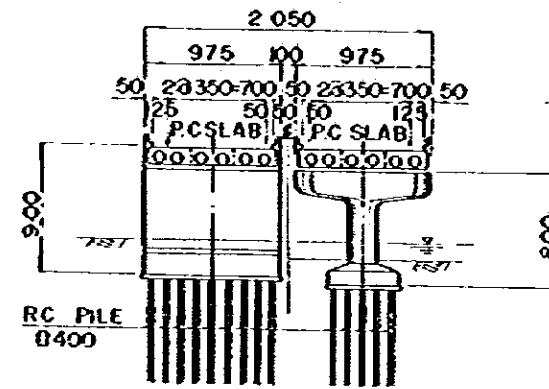
PROJECT	PROJECT CODE / I.R.	PROVINCE	SHEET NO	TOTAL SHEET
JAKARTA HARBOUR ROAD		DKI JKT	1	15
Br. NO. 1 (JL JEMBATAN TIGA)			SCALE 1/500	1/1000



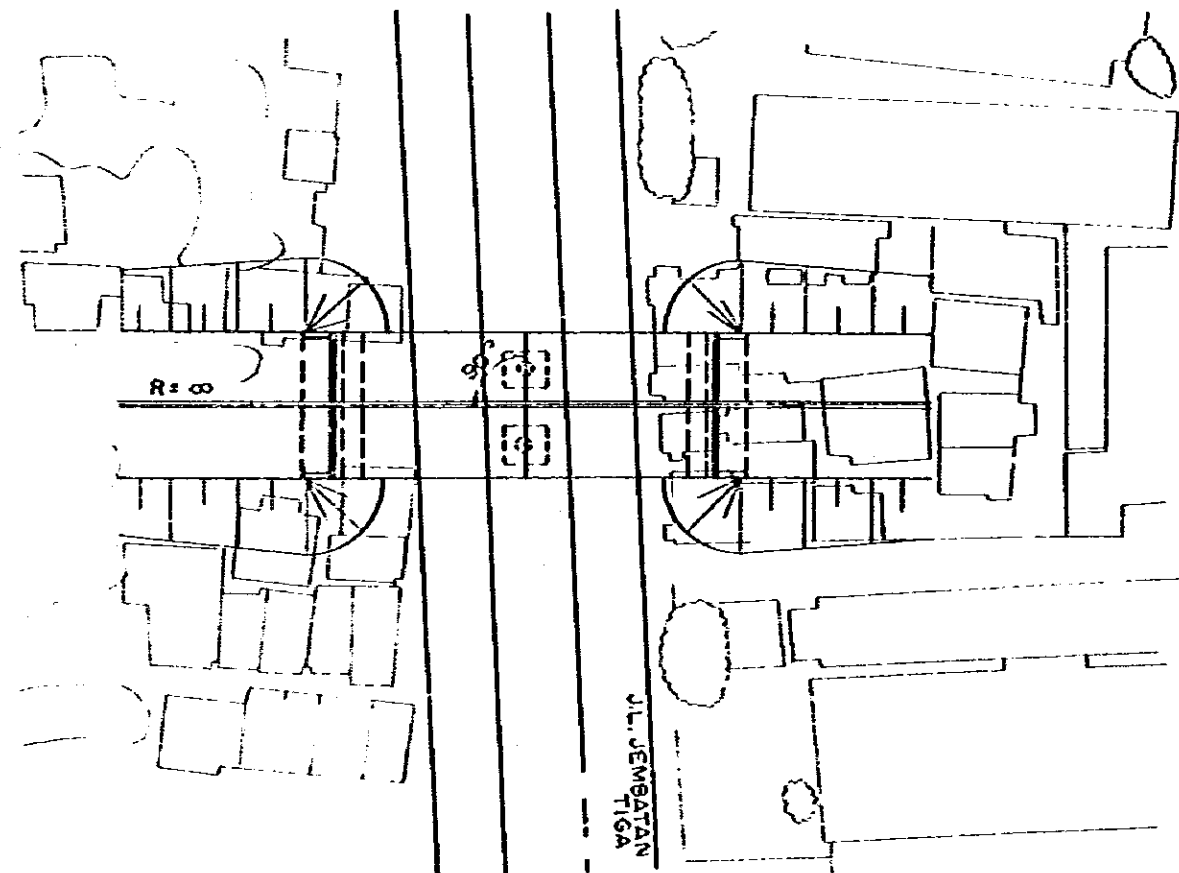
ELEVATION S=1:1000



SECTION A-A SECTION B-B
S=1:500



PLAN S=1:1000



NOTES

- SIZES OF SUPERSTRUCTURES AND SUBSTRUCTURES AND TYPES OF FOUNDATION PILES SHOWN ON THIS DRAWING ARE PRELIMINARY ONLY.
- DIMENSIONS SHOWN ARE IN CENTIMETERS