

**THE KINGDOM OF THAILAND
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF HIGHWAYS**

*Traffic Safety Plan for Roads
in The Kingdom of Thailand*

Drawings

JAPAN INTERNATIONAL COOPERATION AGENCY

JANUARY 1985

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THE KINGDOM OF THAILAND
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF HIGHWAYS

TRAFFIC SAFETY PLAN FOR ROADS
IN
THE KINGDOM OF THAILAND

FINAL REPORT

DRAWINGS

JANUARY, 1985

JAPAN INTERNATIONAL COOPERATION AGENCY

国際協力事業団	
受入 月日 '85. 6. 11	122
登録No. 11557	71 SDF

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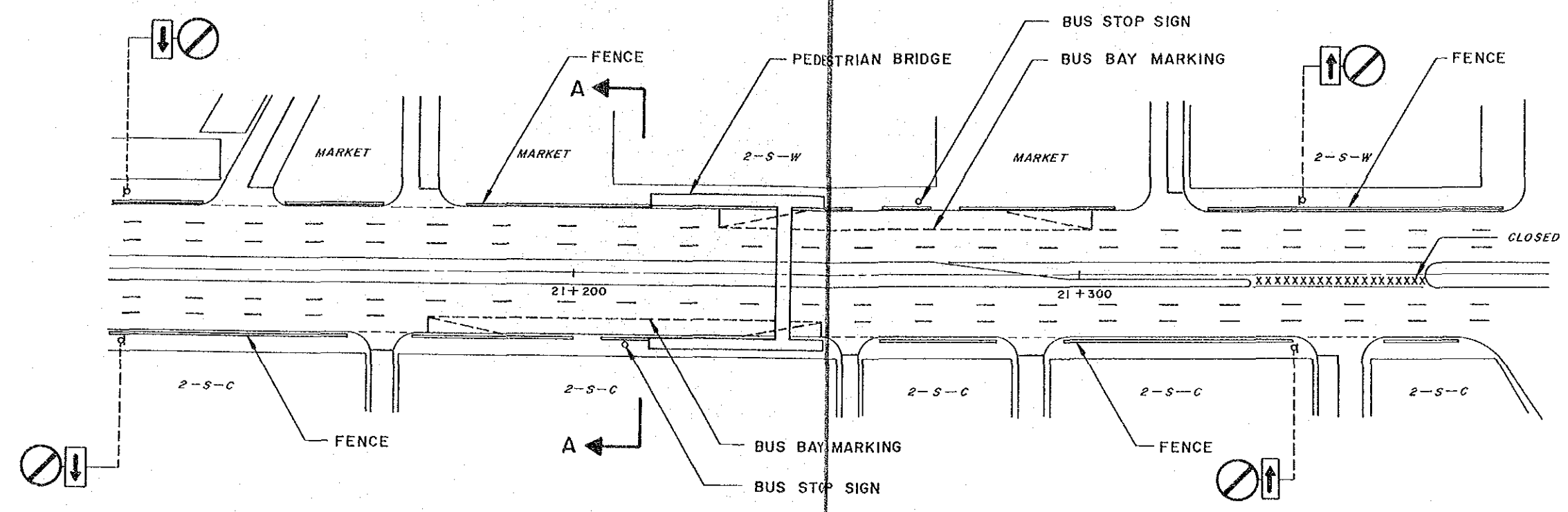
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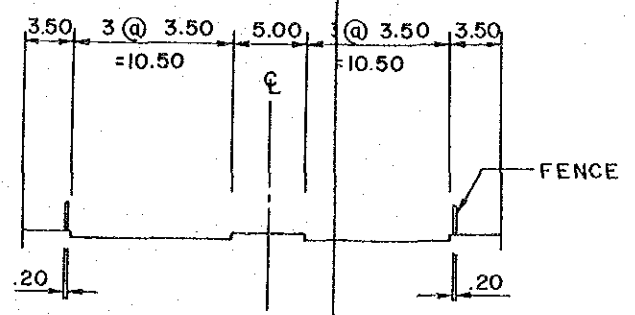
A. SAFETY PLAN

Main Countermeasures

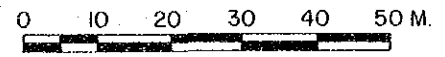
- Installation of pedestrian bridge
- Installation of guardfence
- Restriction of parking at bus stops and intersections
- Provision of stop line marking



P L A N



SECTION A-A



THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. SI	ROUTE NO. I
	ROAD TYPE ; TANGENT SMALL INTERSECTION	
DATE ; NOVEMBER, 1984	DWG. NO. AI	SHEET NO. I

10	20	30	40

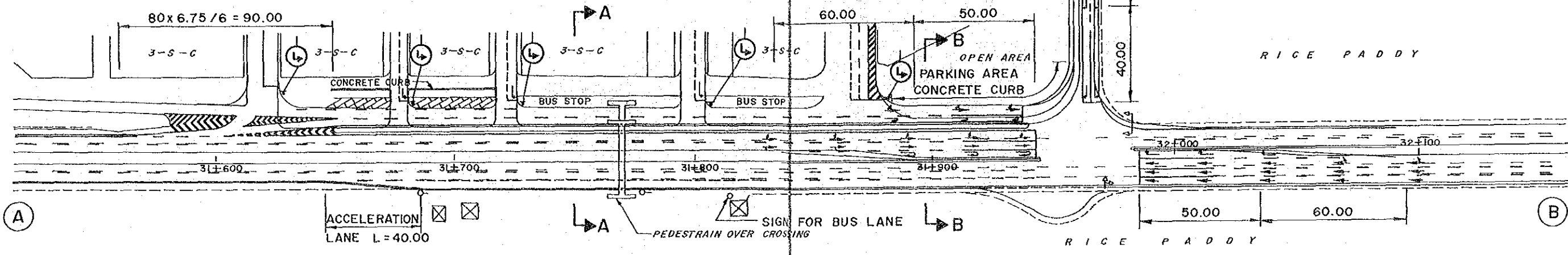
Main Countermeasures

- Construction of frontage-road
- Securing bus-stop space by marking and sign
- Installation of traffic signals
- Provision of right-turning lanes

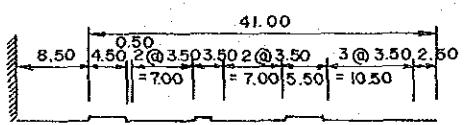
A.M.	P.M.		
153(43)	188(52)		
802(29)	808(41)		
448(18)	403(12)		

A.M.	P.M.		
- (-)	- (-)		
212(20)	223(17)		
616(59)	1147(28)		

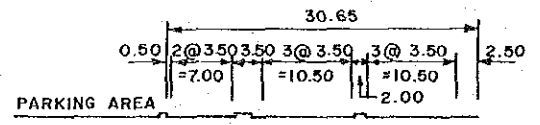
A.M. : Morning peak hour traffic volume (Ve/hour).
P.M. : Evening peak hour traffic volume (Ve/hour).
() : Heavy vehicle ratio (%).



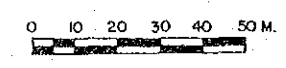
PLAN



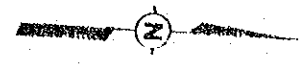
SECTION A-A



SECTION B-B

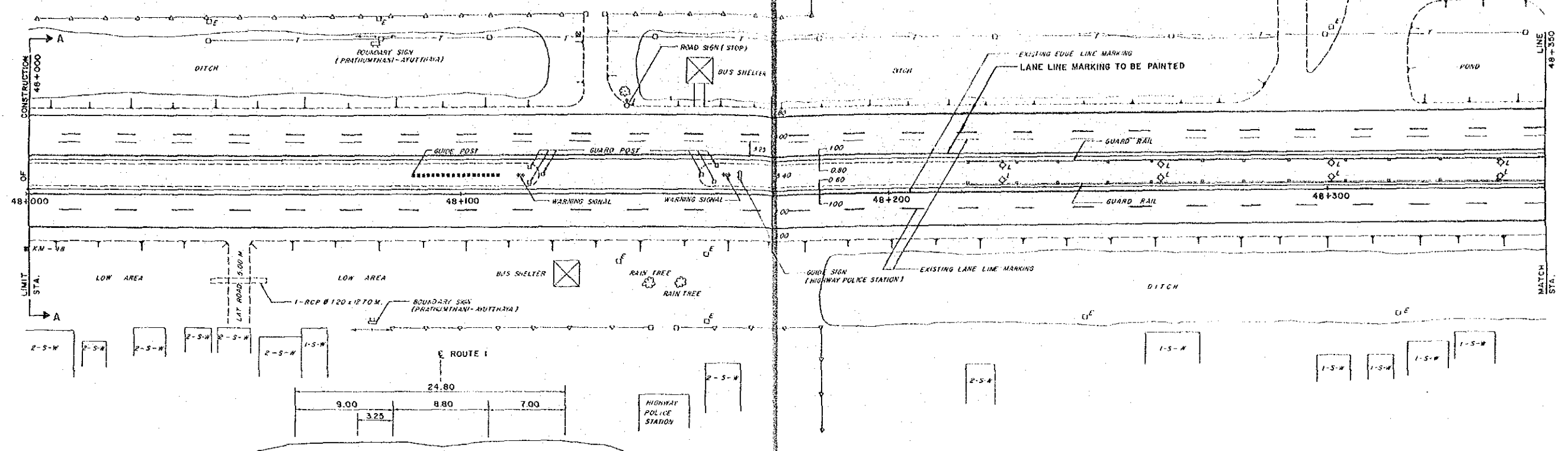


THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S2	ROUTE NO. 1
	ROAD TYPE ; LARGE INTERSECTION	
DATE ; NOVEMBER, 1984	DWG. NO. A2	SHEET NO. 2

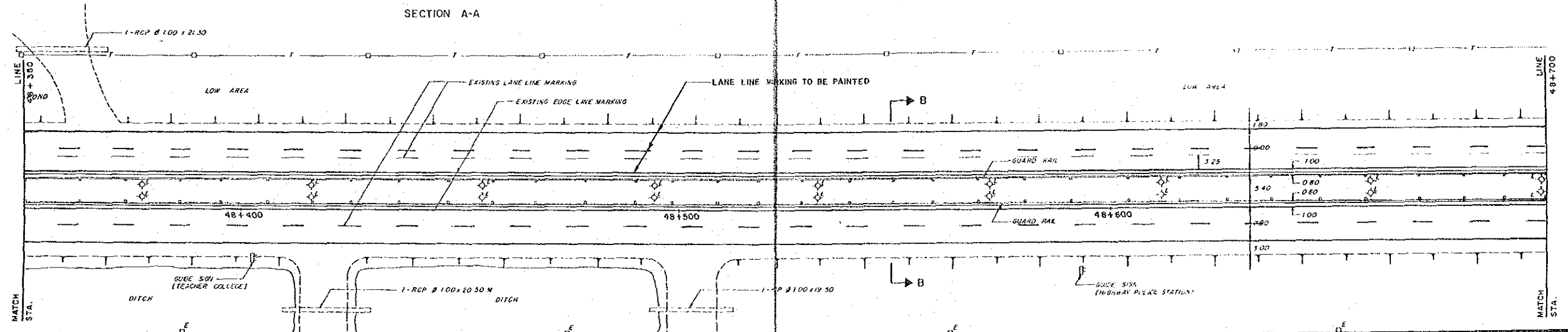


PETCHA BURI WITTHAYALONGKORN TEACHING COLLEGE

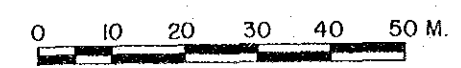
Main Countermeasures
Installation of wide lane and edge line marking
SHELL BASUJAE VIALON



STA. 48+000
SECTION A-A

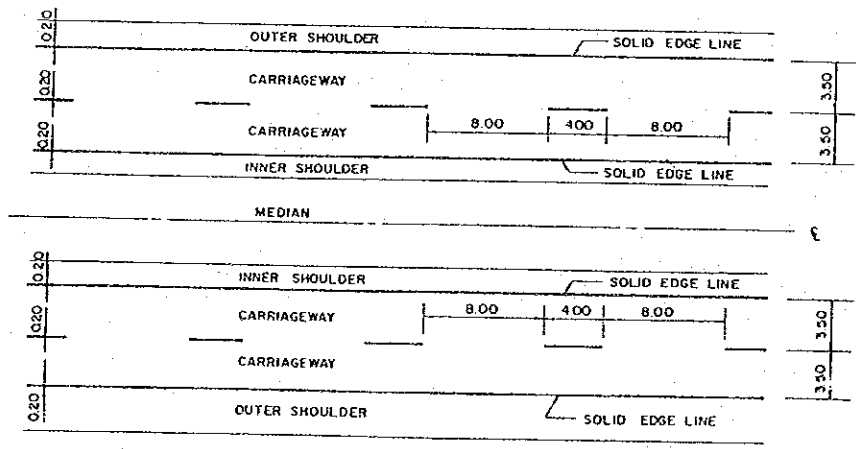
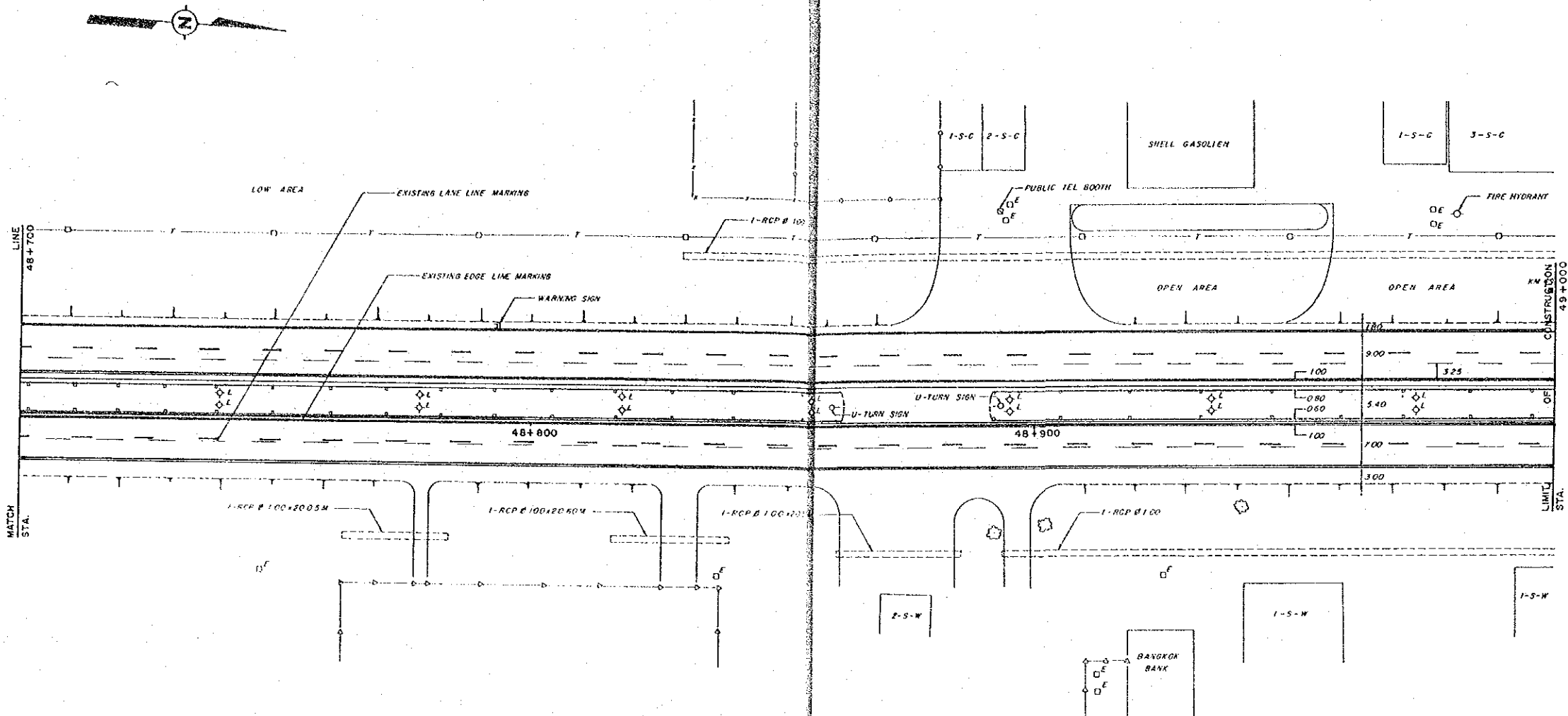


STA. 48+550
SECTION B-B

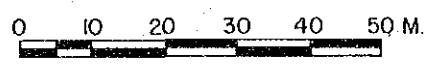


THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S3(1)	ROUTE NO. 1
	ROAD TYPE ; TANGENT DIVIDED 4 LANES	
DATE ; NOVEMBER, 1984	DWG. NO. A3	SHEET NO. 3

Main Countermeasures
 Installation of wide lane and
 edge line marking

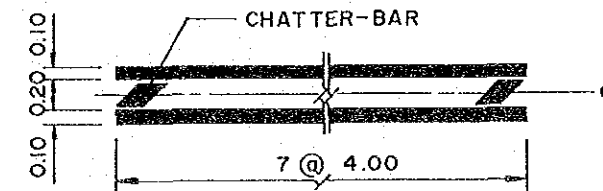
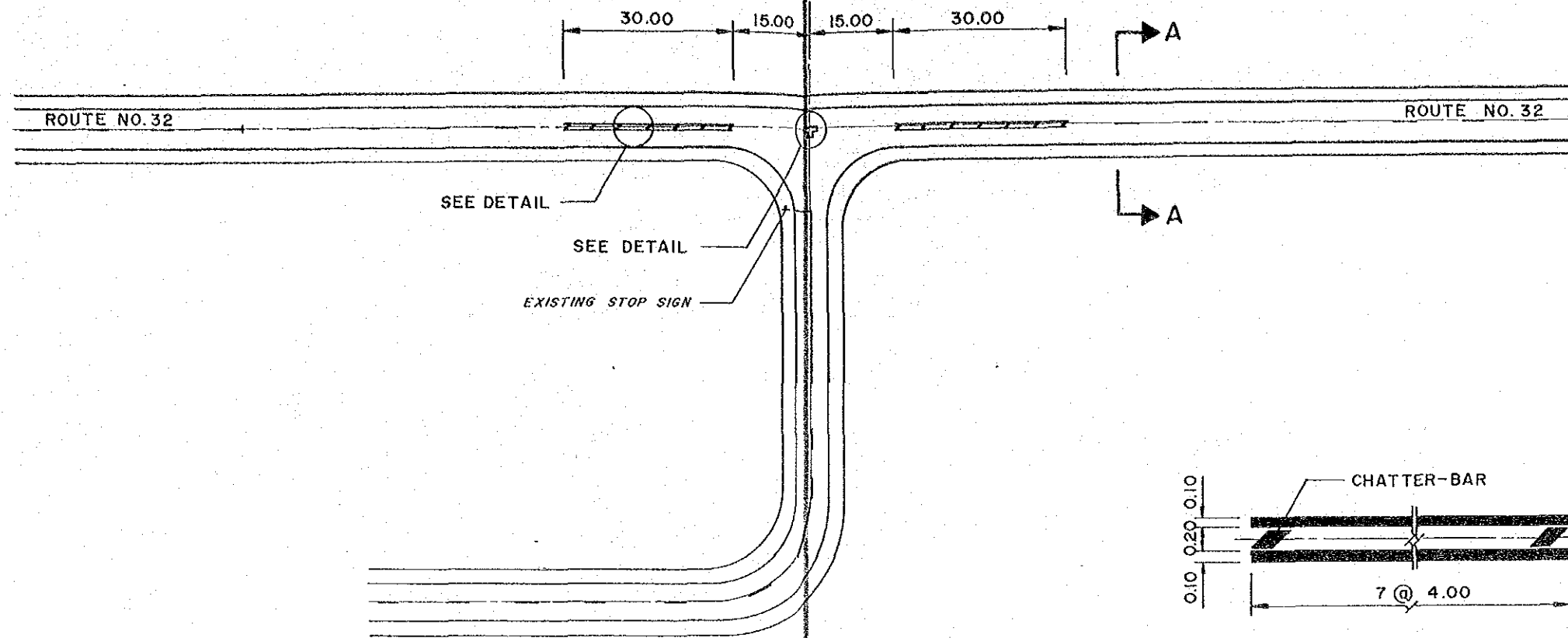


TYPICAL LANE MARKING




THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S3(2)	ROUTE NO. 1
	ROAD TYPE ; TANGENT DIVIDED 4 LANES	
DATE ; NOVEMBER, 1984	DWG. NO. A4	SHEET NO. 4

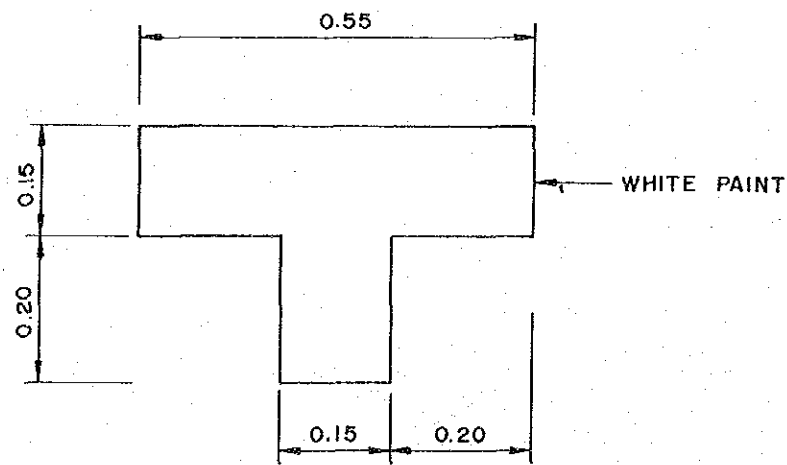
Main Countermeasures
 Provision of marking
 Installation of chatter-bar
 Paving of shoulders



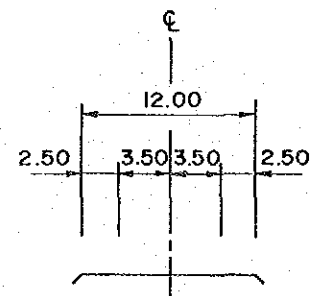
TYPICAL APPROACH MARKING DETAIL

NOTE:  NEW PAVE MARKING PROPOSED

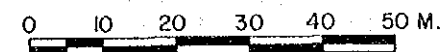
PLAN



T-SHAPED MARKING DETAIL



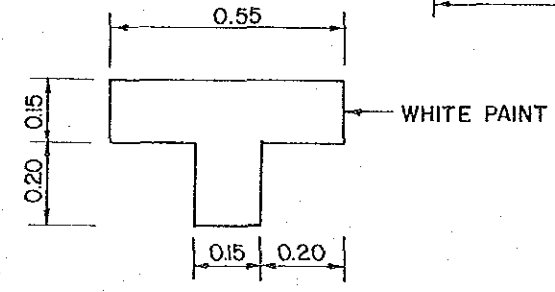
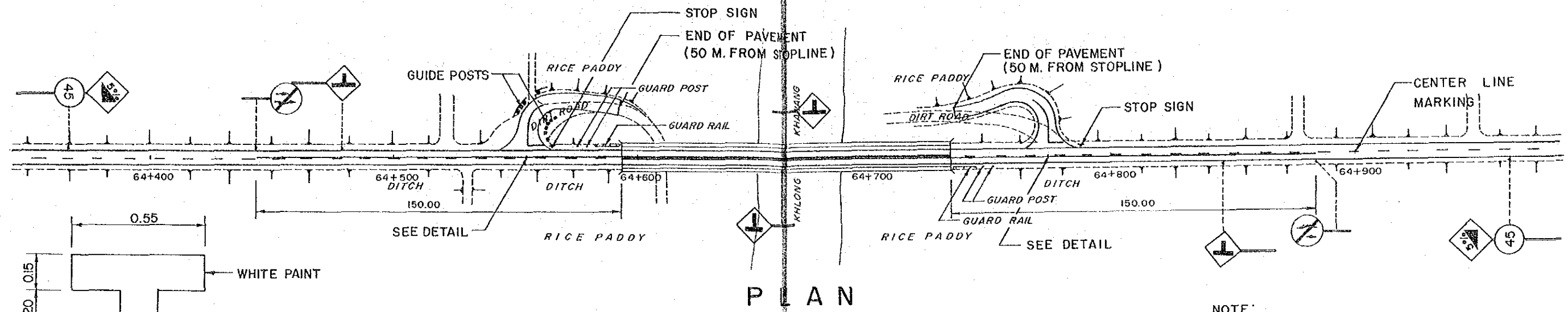
SECTION A-A





THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S4	ROUTE NO. 32
	ROAD TYPE ; SMALL INTERSECTION	
DATE ; NOVEMBER ; 1984	DWG. NO. A5	SHEET NO. 5

Main Countermeasures

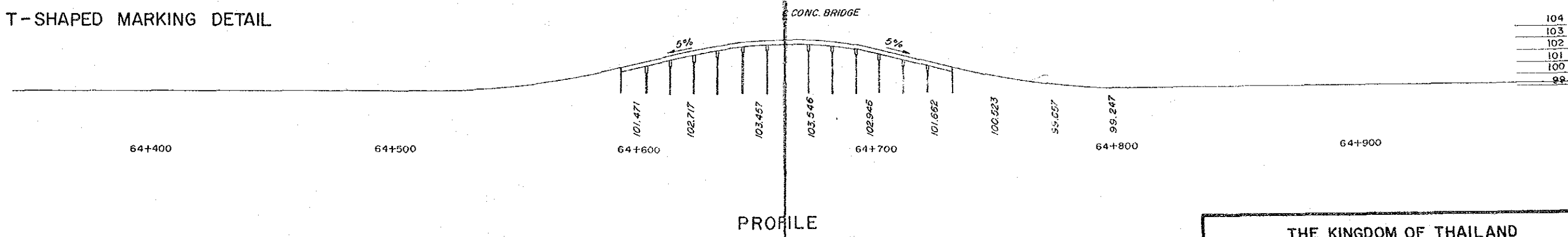
- Prohibition of overtaking
- Installation of warning sign
- Paving of crossing road
- Provision of marking



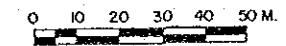
T-SHAPED MARKING DETAIL

NOTE:
 NEW SIGN PROPOSED
 NEW MARKING PROPOSED

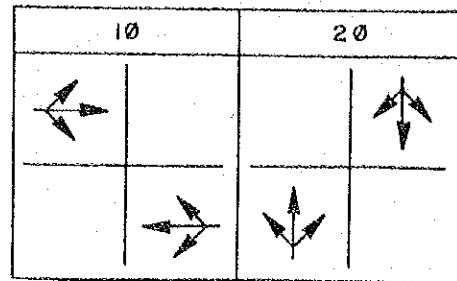
PLAN



PROFILE



THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S5	ROUTE NO. 304
	ROAD TYPE ; TANGENT / CREST SMALL INTERSECTION	
DATE ; NOVEMBER, 1984	DWG. NO. A6	SHEET NO. 6



ROUTE 308 TO BANGKOK		A.M.		P.M.	
20(20)	13(13)	9(9)	8(8)	54(55)	28(27)
(-)	(-)	(-)	(-)	(-)	(-)

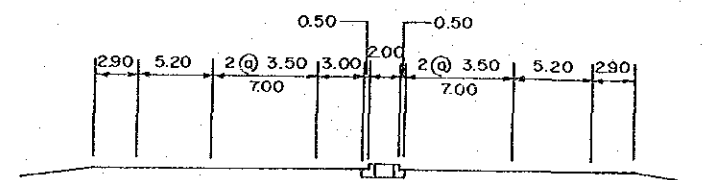
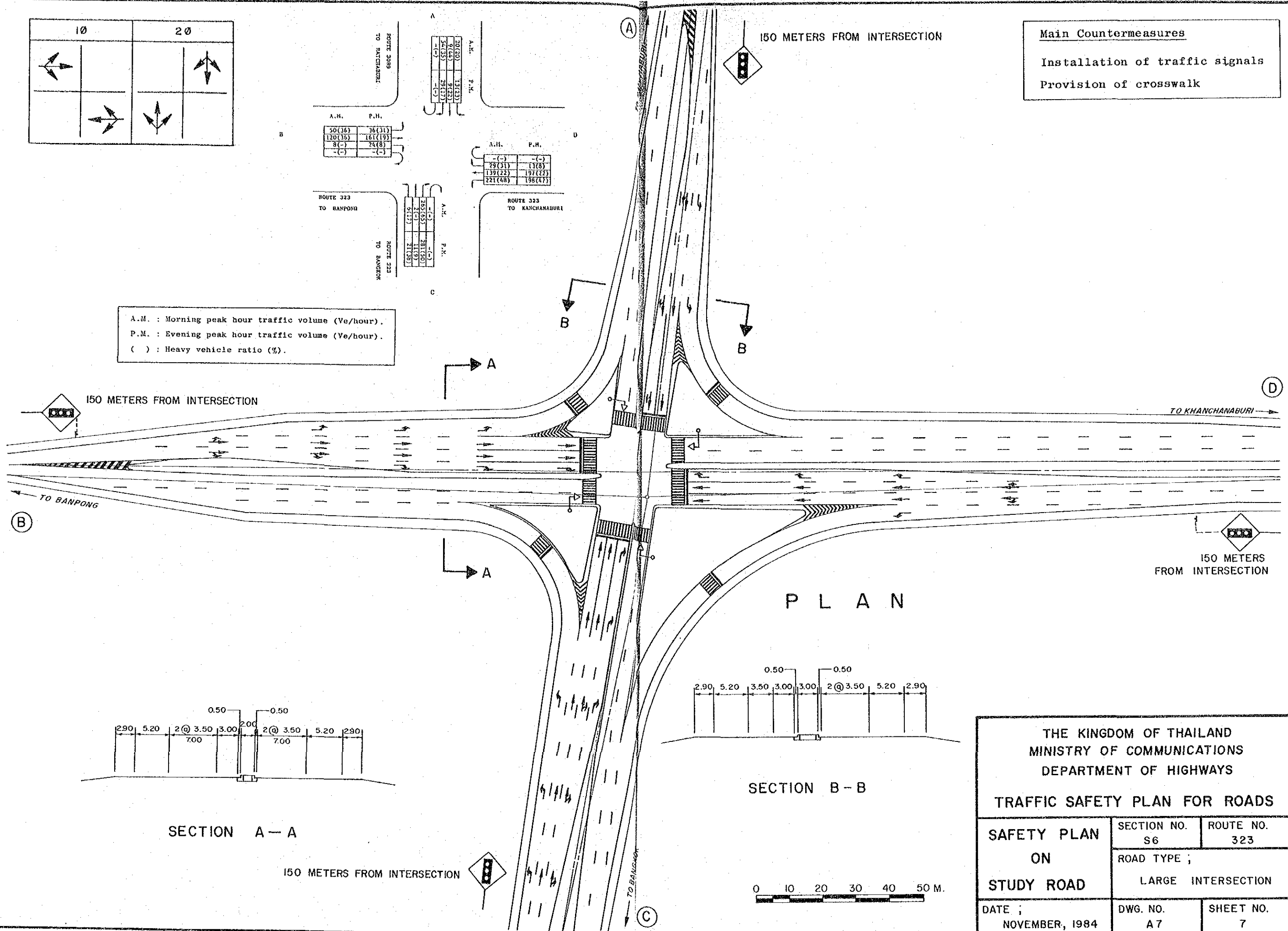
ROUTE 323 TO BANPONG		A.M.		P.M.	
50(36)	36(31)	120(35)	161(19)	8(-)	74(8)
(-)	(-)	(-)	(-)	(-)	(-)

ROUTE 323 TO BANPONG		A.M.		P.M.	
265(65)	281(50)	2(-)	11(9)	5(17)	21(38)
(-)	(-)	(-)	(-)	(-)	(-)

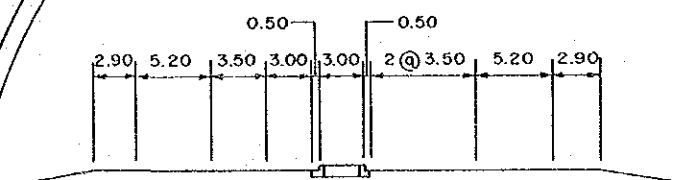
ROUTE 323 TO KANCHANABURI		A.M.		P.M.	
(-)	(-)	29(31)	13(8)	139(22)	197(22)
(-)	(-)	221(48)	198(47)	(-)	(-)

A.M. : Morning peak hour traffic volume (Ve/hour).
 P.M. : Evening peak hour traffic volume (Ve/hour).
 () : Heavy vehicle ratio (%).

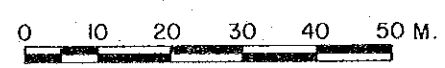
Main Countermeasures
 Installation of traffic signals
 Provision of crosswalk



SECTION A - A



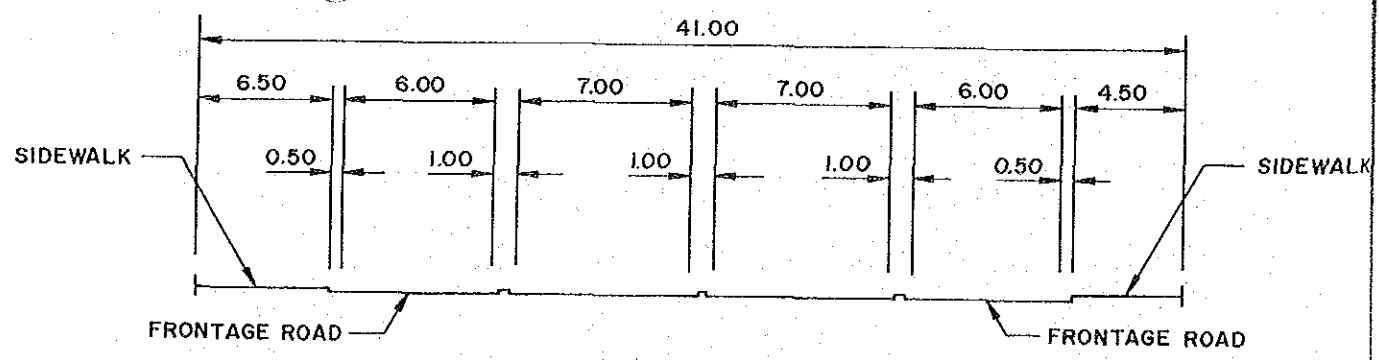
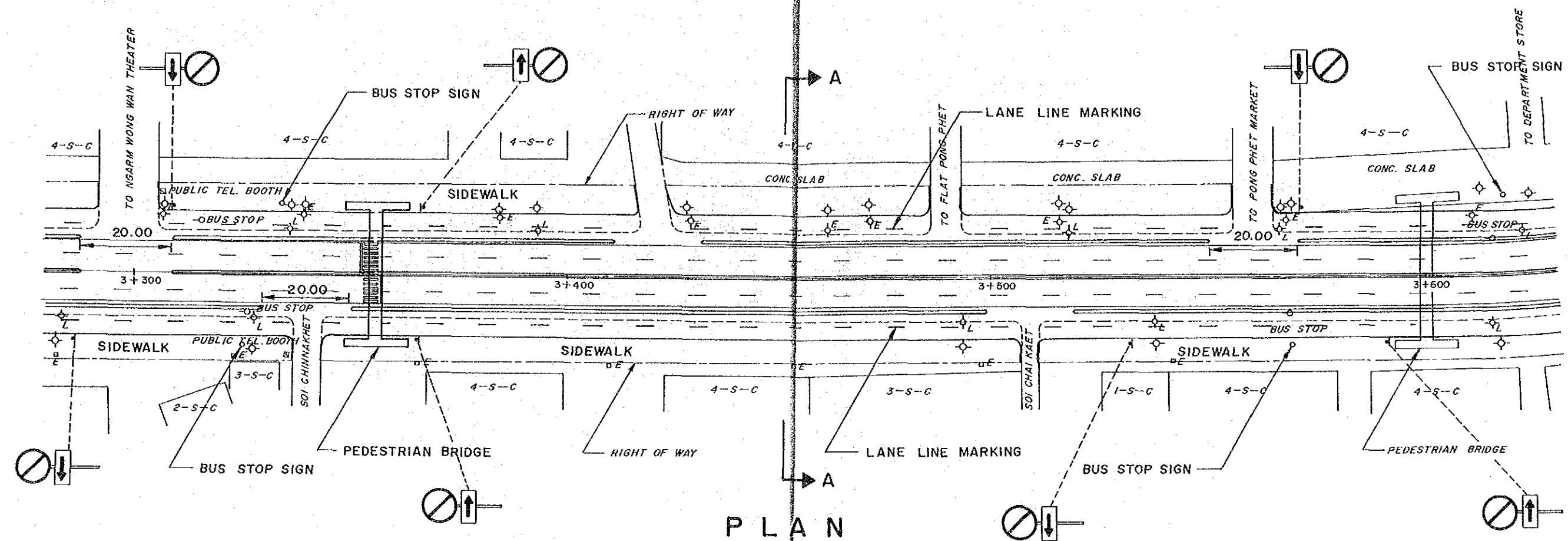
SECTION B - B



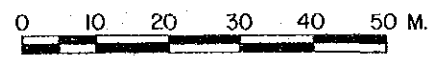
THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S6	ROUTE NO. 323
	ROAD TYPE ; LARGE INTERSECTION	
DATE ; NOVEMBER, 1984	DWG. NO. A7	SHEET NO. 7

Main Countermeasures

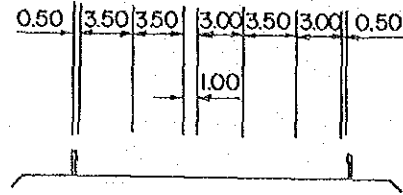
- Construction of frontage road
- Installation of median
- Intallation of pedestrian bridge



SECTION A-A

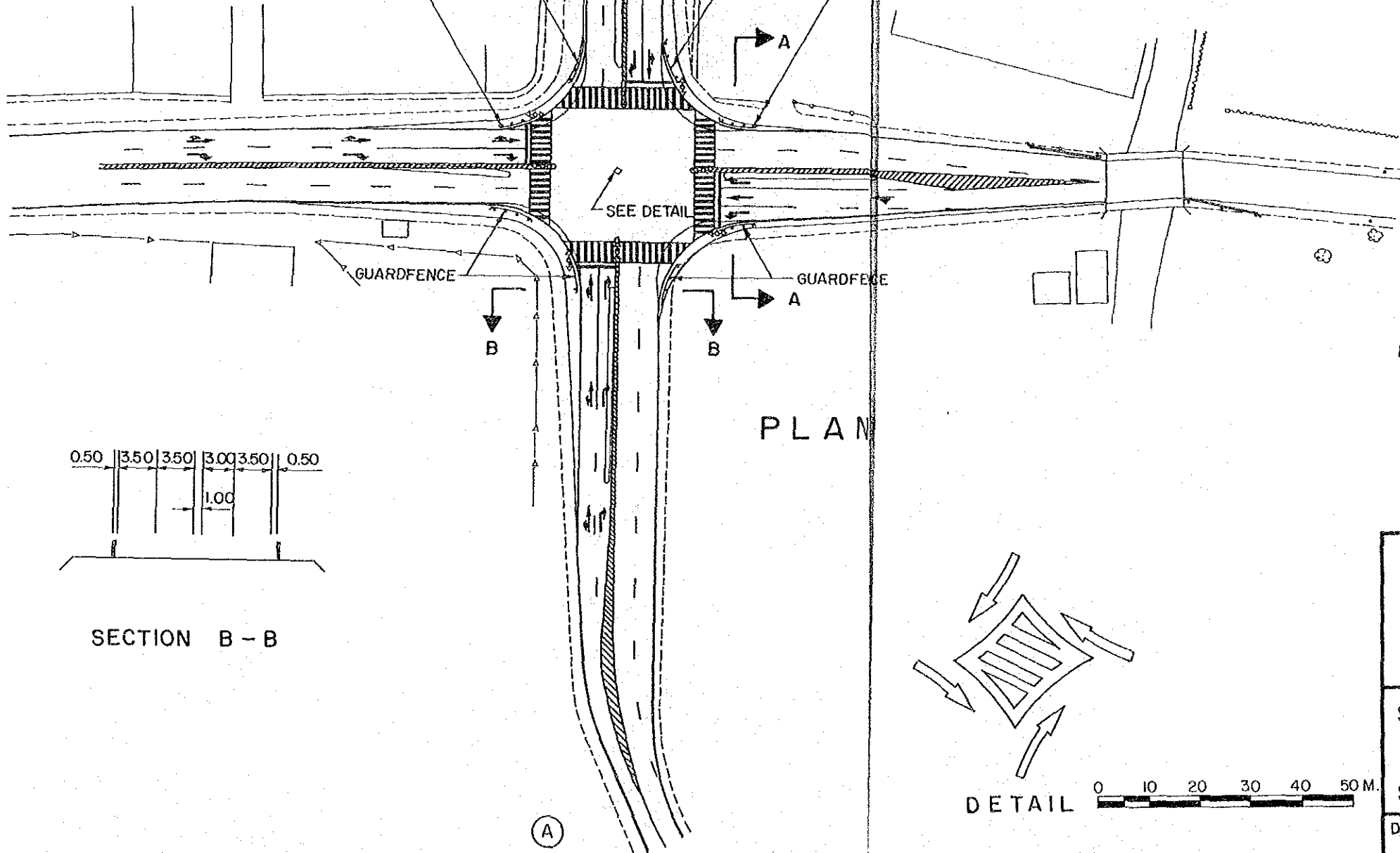


THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S7	ROUTE NO. 302
	ROAD TYPE ; TANGENT UNDIVIDED 4 LANES	
DATE ; NOVEMBER, 1984	DWG. NO. A8	SHEET NO. 8

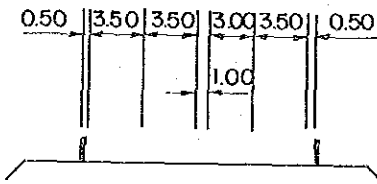


SECTION A-A

D

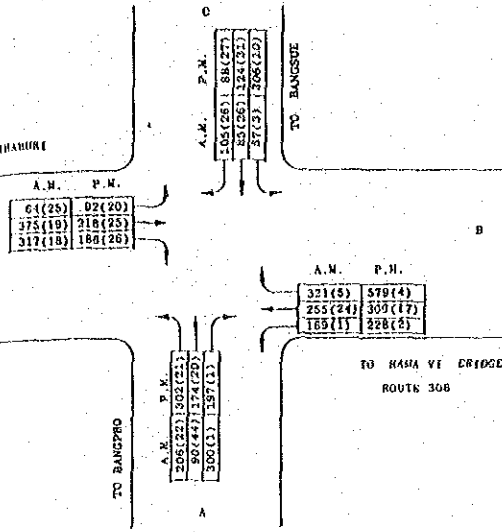


PLAN



SECTION B-B

A



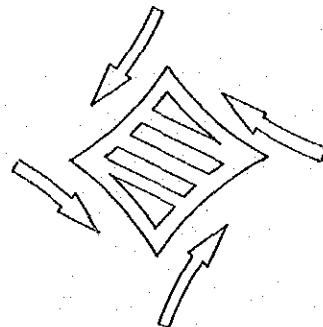
A.M. : Morning peak hour traffic volume (Ve/hour)
 P.M. : Evening peak hour traffic volume (Ve/hour)
 () : Heavy vehicle ratio(%).

Main Countermeasures

- Reduction of intersection in size.
- Provision of right and left turning lanes.
- Installation of pedestrian crossing.
- Installation of guardrail.
- Provision of marking

	10	20	30
←		→	↑
	←	→	↑

NOTE: NEW PAVEMENT MARKING PROPOSED



DETAIL

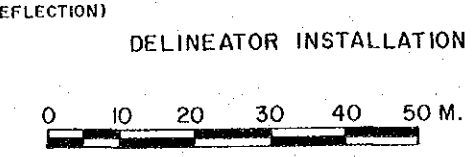
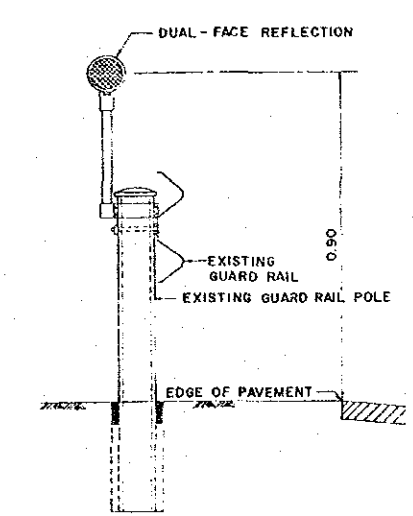
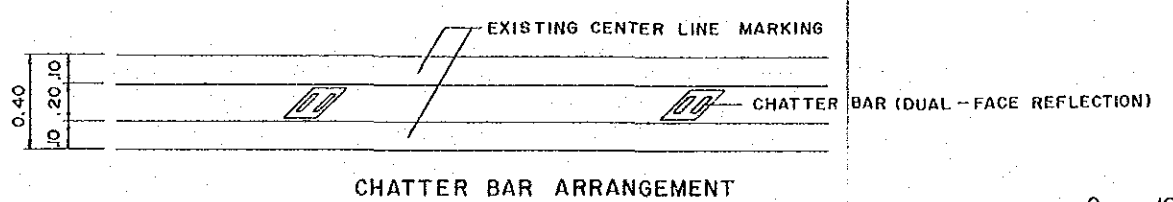
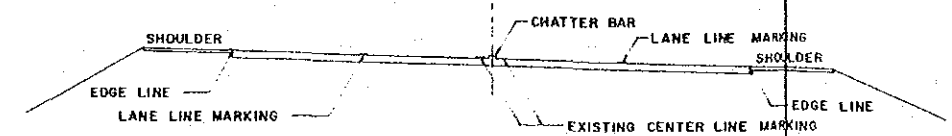
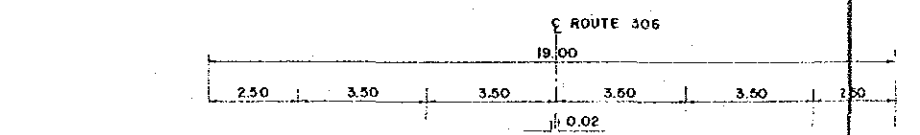
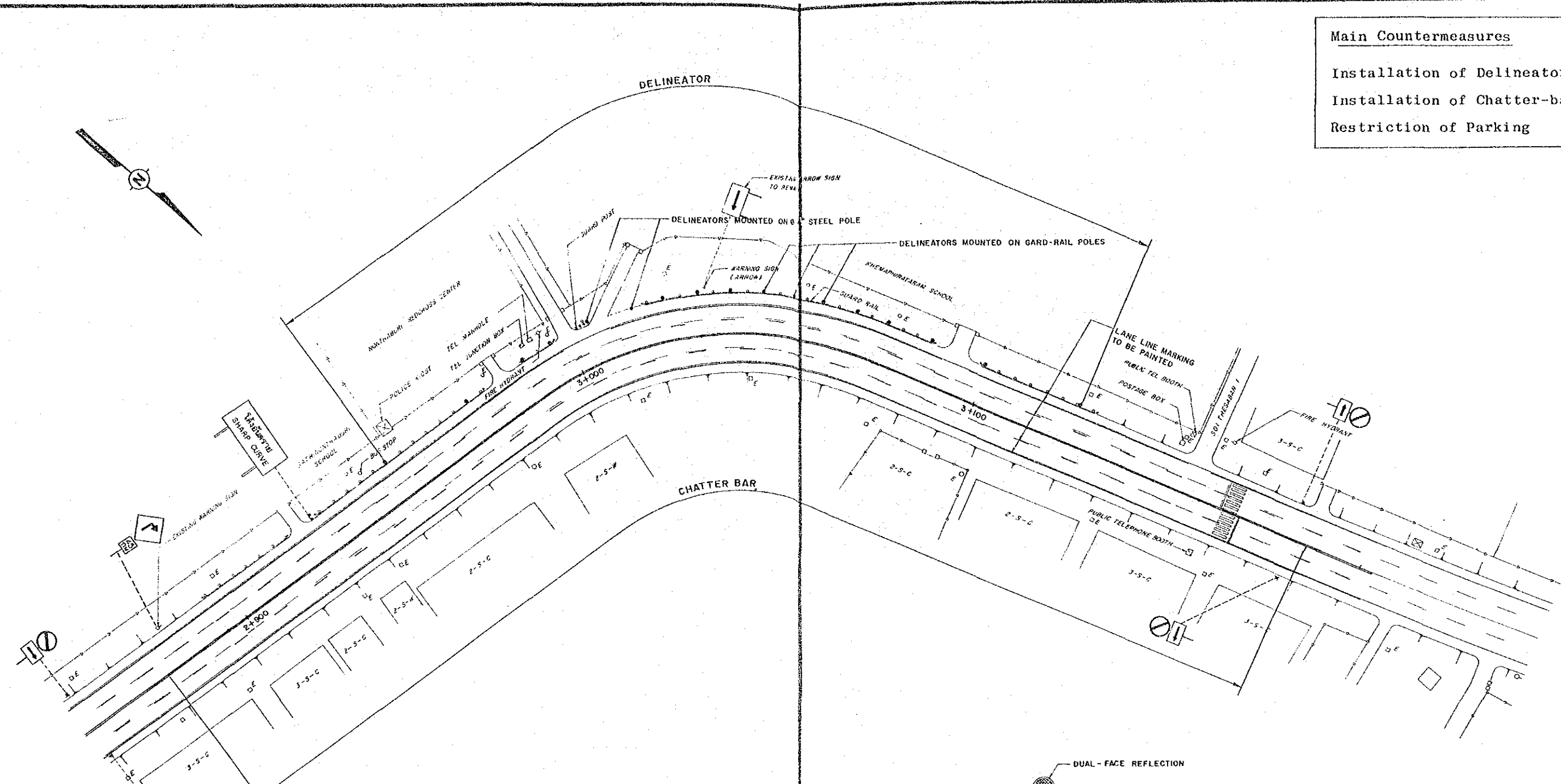


THE KINGDOM OF THAILAND
 MINISTRY OF COMMUNICATIONS
 DEPARTMENT OF HIGHWAYS

TRAFFIC SAFETY PLAN FOR ROADS

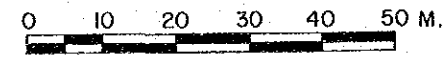
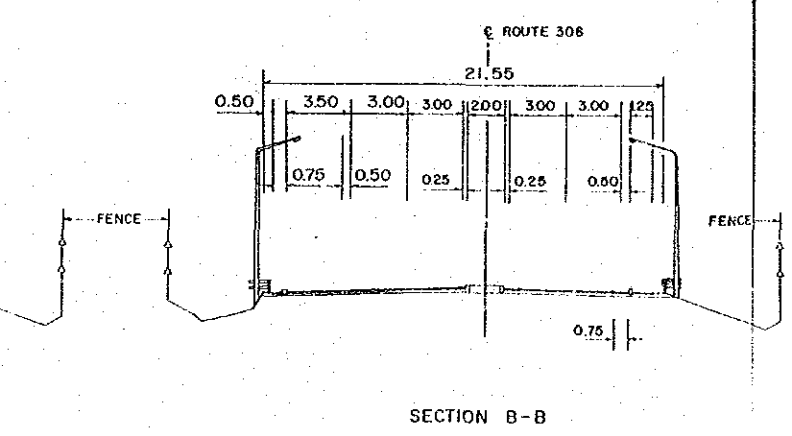
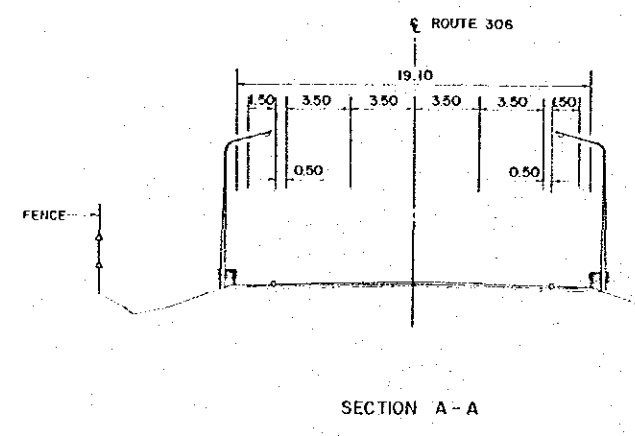
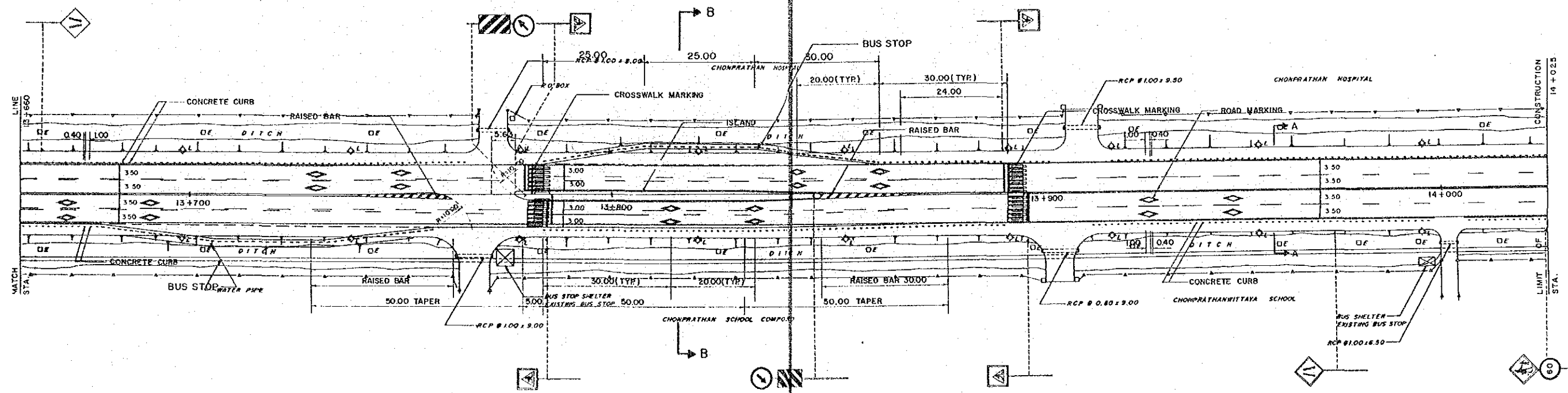
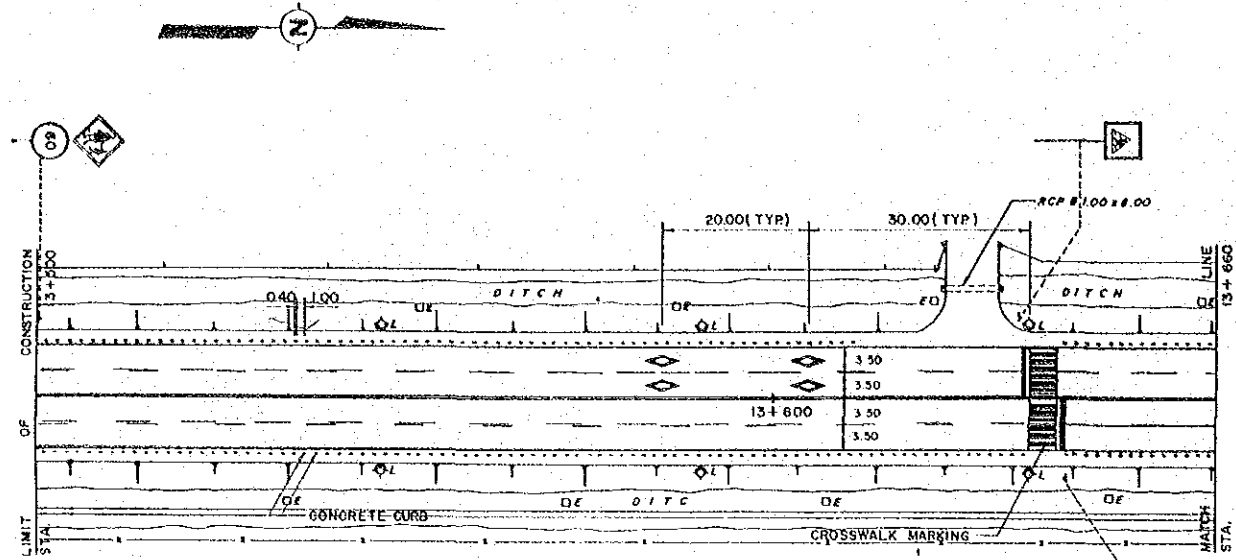
SAFETY PLAN ON STUDY ROAD	SECTION NO. S8	ROUTE NO. 306
	ROAD TYPE ; MEDIUM INTERSECTION	
DATE ; NOVEMBER, 1984	DWG. NO. A9	SHEET NO. 9

Main Countermeasures
 Installation of Delineators
 Installation of Chatter-bars
 Restriction of Parking

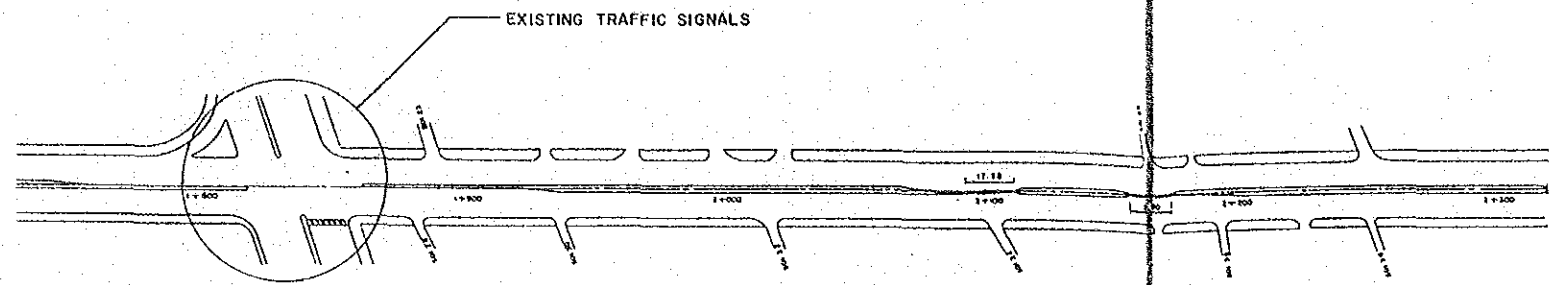


THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S9	ROUTE NO. 306
	ROAD TYPE ; CURVE SECTION	
DATE ; NOVEMBER, 1984	DWG. NO. A 10	SHEET NO. 10

- Main Countermeasures**
- Installation of refuge islands
 - Installation of crosswalk marking
 - Installation of sidewalk by curb
 - Installation of warning sign and marking
 - Construction of bus bays

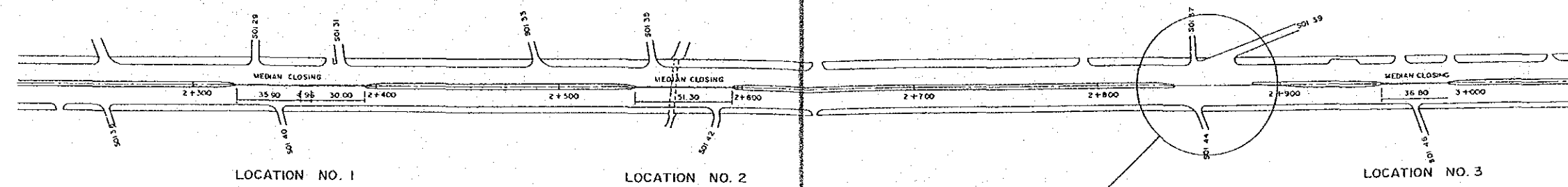


THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S10	ROUTE NO. 306
	ROAD TYPE ; TANGENT UNDIVIDED 4 LANES	
DATE ; NOVEMBER, 1984	DWG. NO. A II	SHEET NO. II

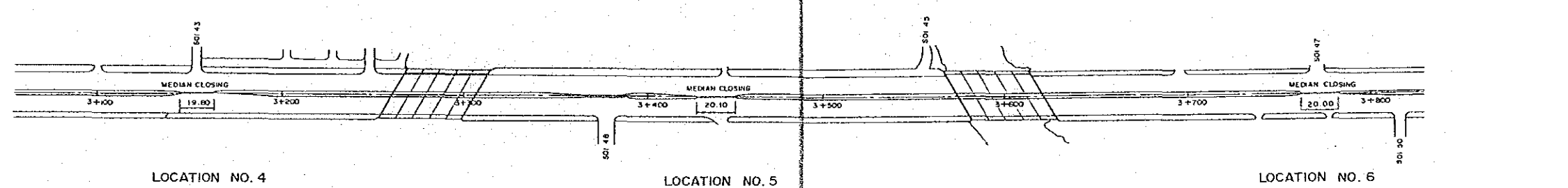


Main Countermeasures

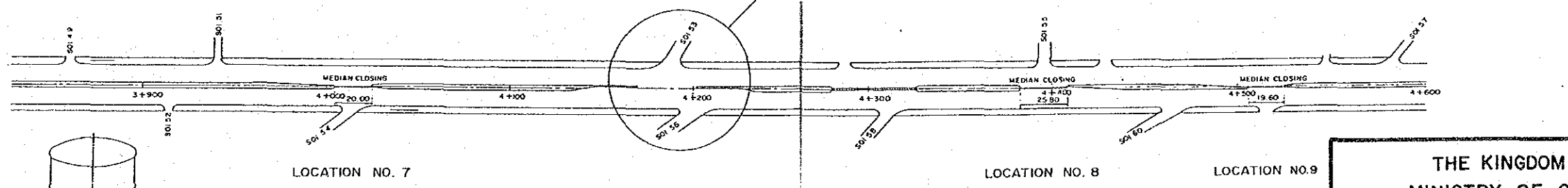
- Installation of signals at 2 intersections for vehicular traffic
- Installation of signals at 2 intersections for pedestrian
- Installation of pedestrian crossing
- Coordination of traffic signals
- Restriction of turning vehicles at median-openings



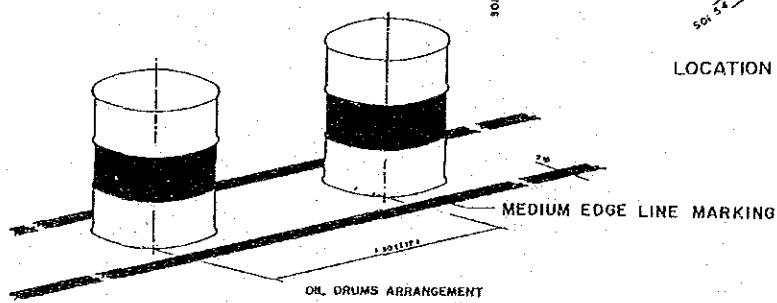
INSTALL THE TRAFFIC SIGNALS (SEE FIGURE)



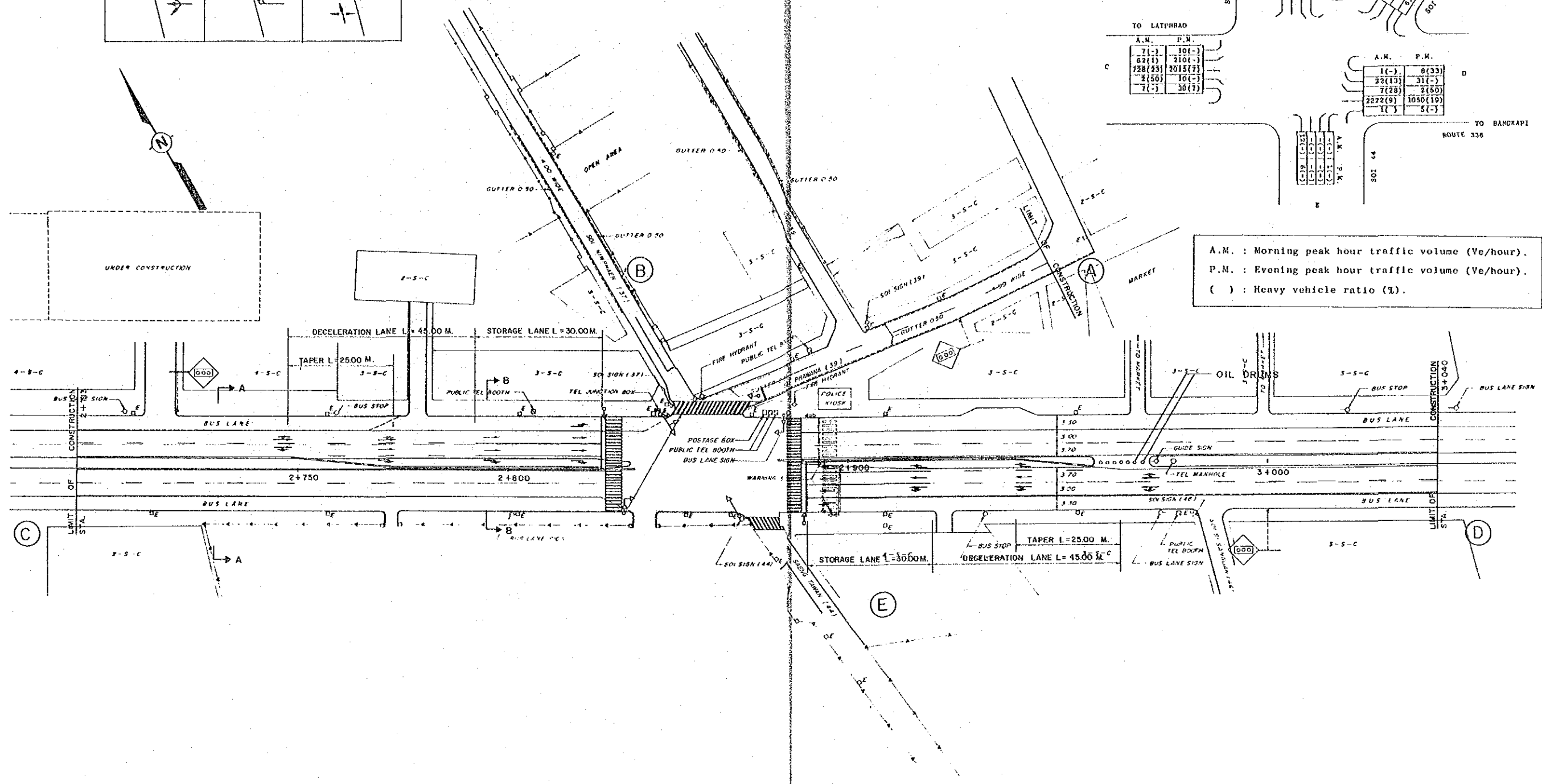
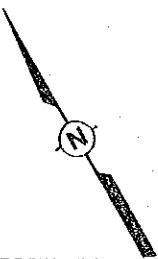
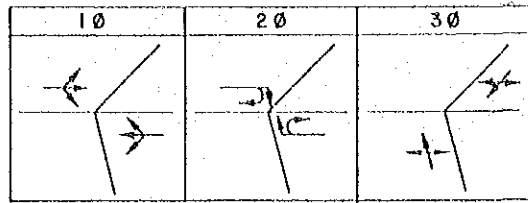
INSTALL THE TRAFFIC SIGNALS (SEE FIGURE)



LOCATION PLAN FOR MEDIAN CLOSURE



THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S11(1)	ROUTE NO. 336
	ROAD TYPE ; TANGENT MEDIUM INTERSECTION	
DATE ; NOVEMBER, 1984	DWG. NO. A 12	SHEET NO. 12

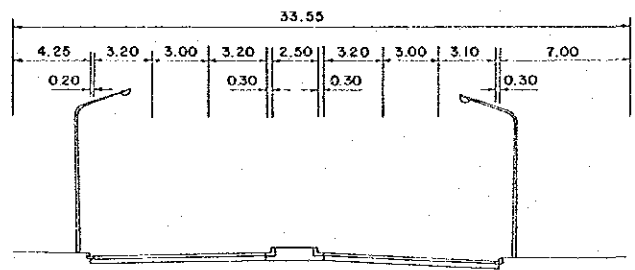


A.M. : Morning peak hour traffic volume (Ve/hour).
 P.M. : Evening peak hour traffic volume (Ve/hour).
 () : Heavy vehicle ratio (%).

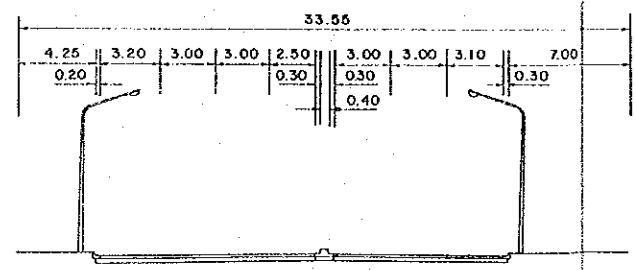
A.M.	P.M.
7(-)	10(-)
82(1)	210(-)
128(23)	2015(7)
2(50)	10(-)
7(-)	58(7)

A.M.	P.M.
20(-)	12(-)
7(-)	1(-)
7(-)	1(-)

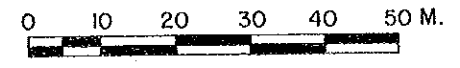
A.M.	P.M.
1(-)	8(33)
22(13)	31(-)
7(28)	2(60)
222(9)	1050(10)
1(-)	5(-)



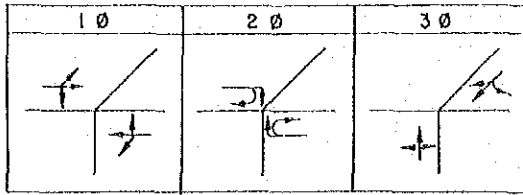
SECTION A-A



SECTION B-B



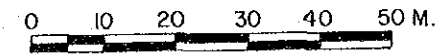
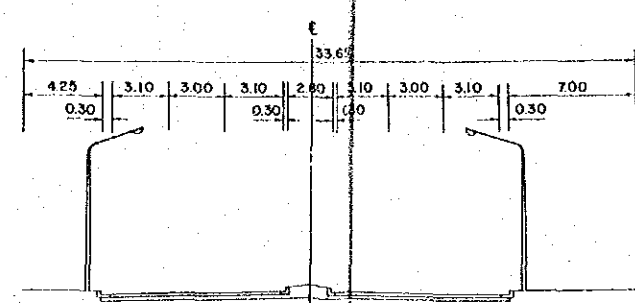
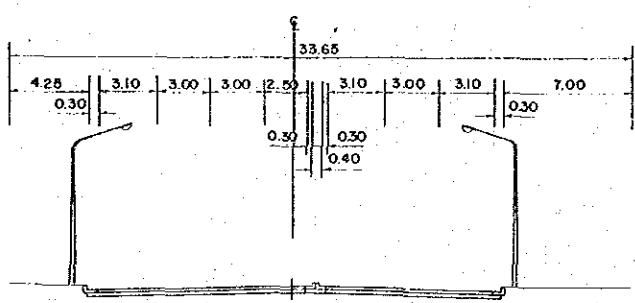
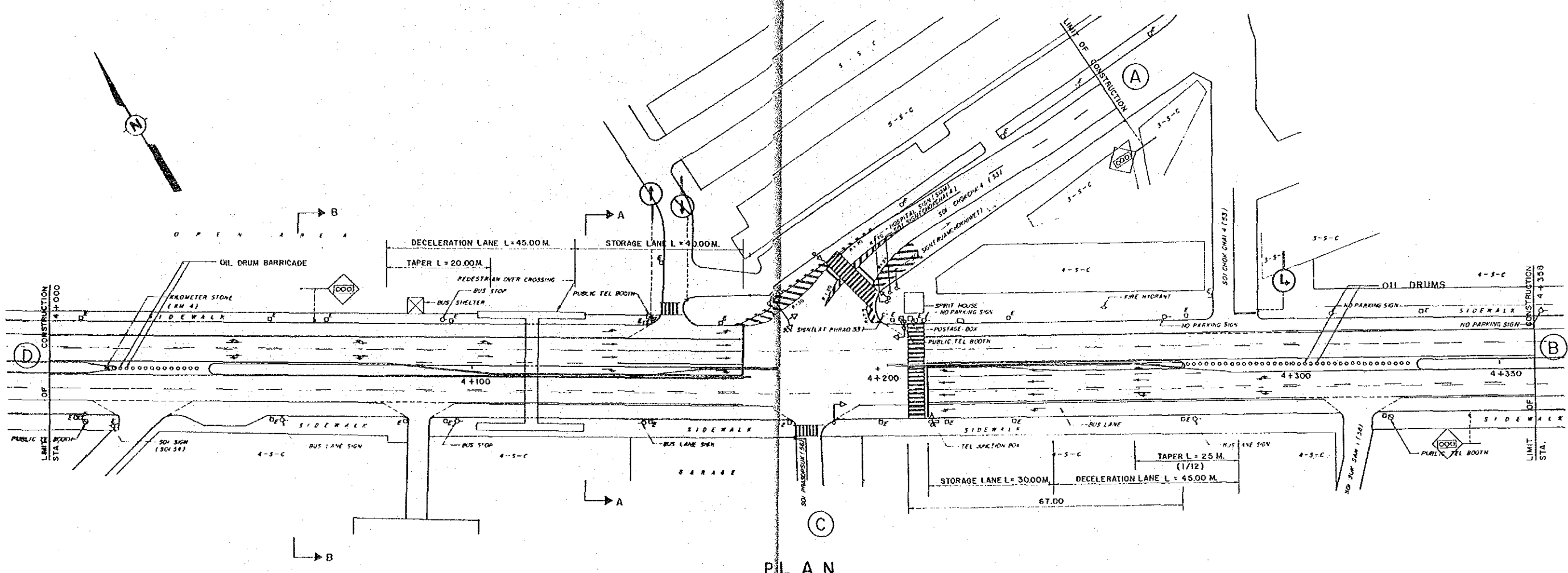
THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S11(2)	ROUTE NO. 336
	ROAD TYPE ; TANGENT MEDIUM INTERSECTION	
DATE ; NOVEMBER, 1984	DWG. NO. A 13	SHEET NO. 13



TO LATPHRAO	
A.M.	P.M.
84(7)	280(1)
148(2)	1081(-)
1(-)	13(-)
25(8)	8(-)

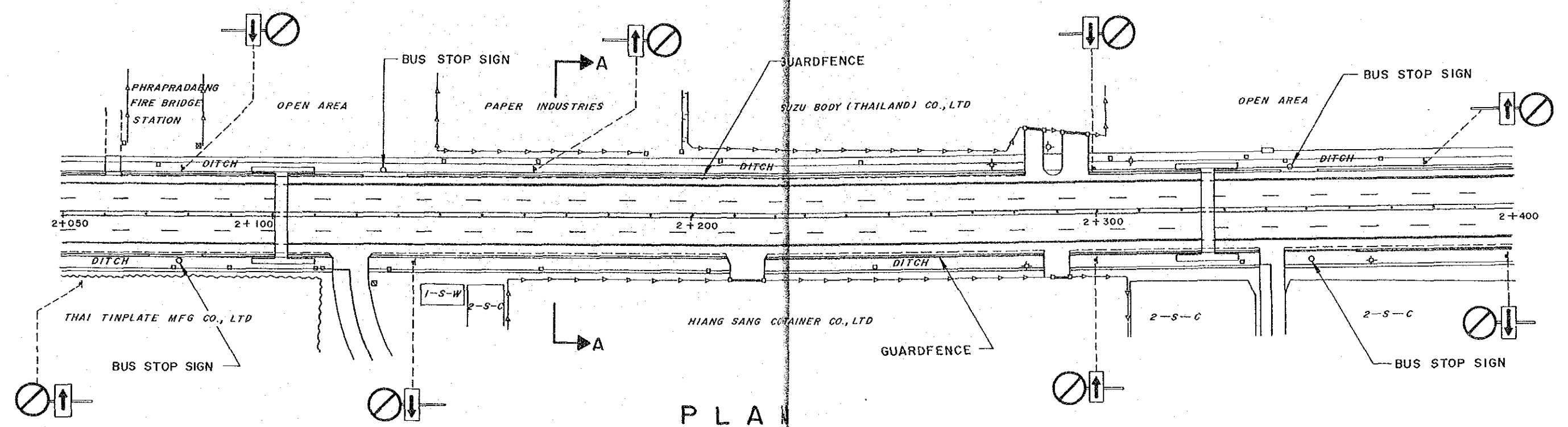
ROUTE 336 TO BAN...	
A.M.	P.M.
0(-)	13(-)
83(5)	1055(1)
1804(8)	1177(15)
6(-)	7(-)

A.M. : Morning peak hour traffic volume (Ve/hour)
 P.M. : Evening peak hour traffic volume (Ve/hour)
 () : Heavy vehicle ratio(%)

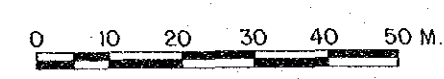
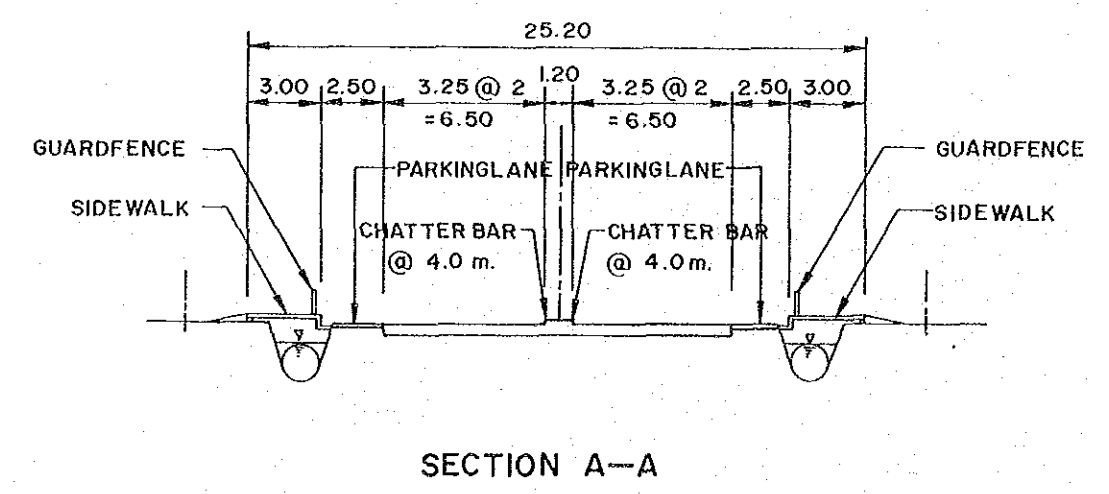


THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S11(3)	ROUTE NO. 336
	ROAD TYPE ; TANGENT MEDIUM INTERSECTION	
DATE ; NOVEMBER, 1984	DWG. NO. A14	SHEET NO. 14

- Main Countermeasures**
- Construction of sidewalk
 - Installation of pedestrian bridge
 - Installation of parking-lane
 - Installation of chatter-bar
 - Installation of guardfence



P L A N



THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S 12	ROUTE NO. 3113
	ROAD TYPE ; TANGENT UNDIVIDED 4 LANES	
DATE ; NOVEMBER, 1984	DWG. NO. A 15	SHEET NO. 15

Main Countermeasures
 Provision of bicycle ways

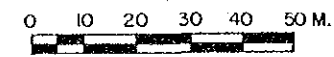
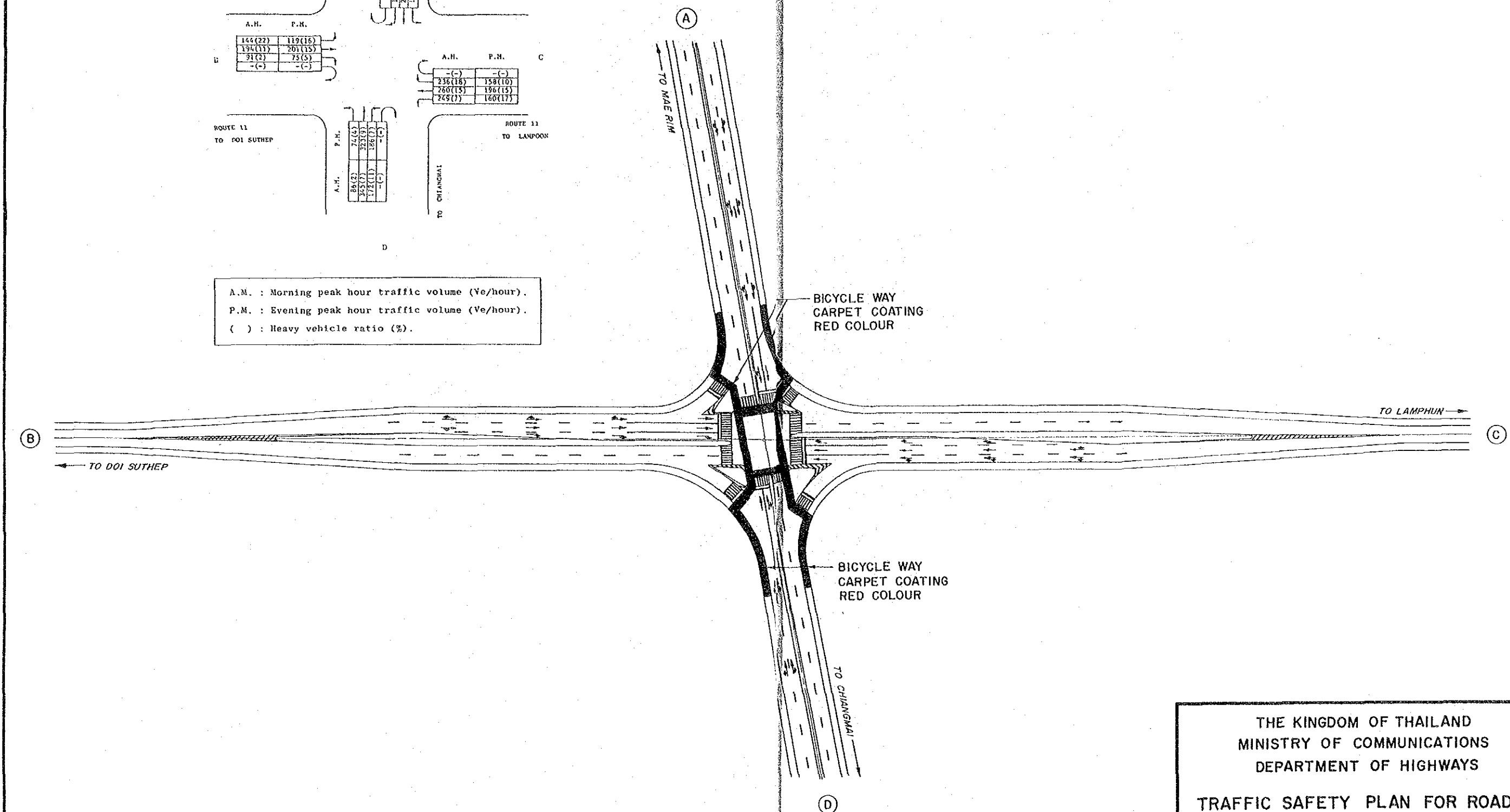
TO MAE RIM		A	
A.M.	P.M.	A.M.	P.M.
144(22)	119(16)	137(13)	152(17)
134(11)	201(15)	274(16)	282(17)
31(2)	75(5)	146(13)	182(17)
-(-)	-(-)	-(-)	-(-)

ROUTE 11 TO DOI SUTHEP		D	
A.M.	P.M.	A.M.	P.M.
144(22)	119(16)	137(13)	152(17)
134(11)	201(15)	274(16)	282(17)
31(2)	75(5)	146(13)	182(17)
-(-)	-(-)	-(-)	-(-)

ROUTE 11 TO LANPOON		C	
A.M.	P.M.	A.M.	P.M.
236(18)	158(10)	274(16)	182(17)
260(15)	196(15)	146(13)	182(17)
245(17)	160(17)	-(-)	-(-)
-(-)	-(-)	-(-)	-(-)

TO CHIANGMAI		D	
A.M.	P.M.	A.M.	P.M.
86(2)	74(2)	137(13)	152(17)
323(6)	196(15)	274(16)	282(17)
172(1)	117(1)	146(13)	182(17)
-(-)	-(-)	-(-)	-(-)

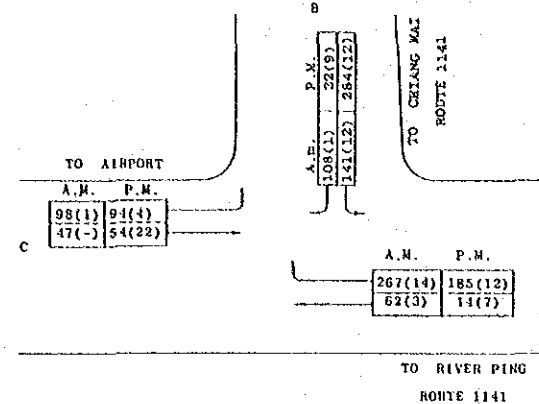
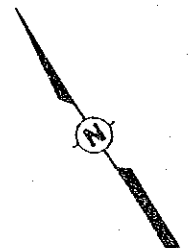
A.M. : Morning peak hour traffic volume (Ve/hour).
 P.M. : Evening peak hour traffic volume (Ve/hour).
 () : Heavy vehicle ratio (%).



THE KINGDOM OF THAILAND
 MINISTRY OF COMMUNICATIONS
 DEPARTMENT OF HIGHWAYS

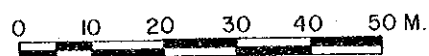
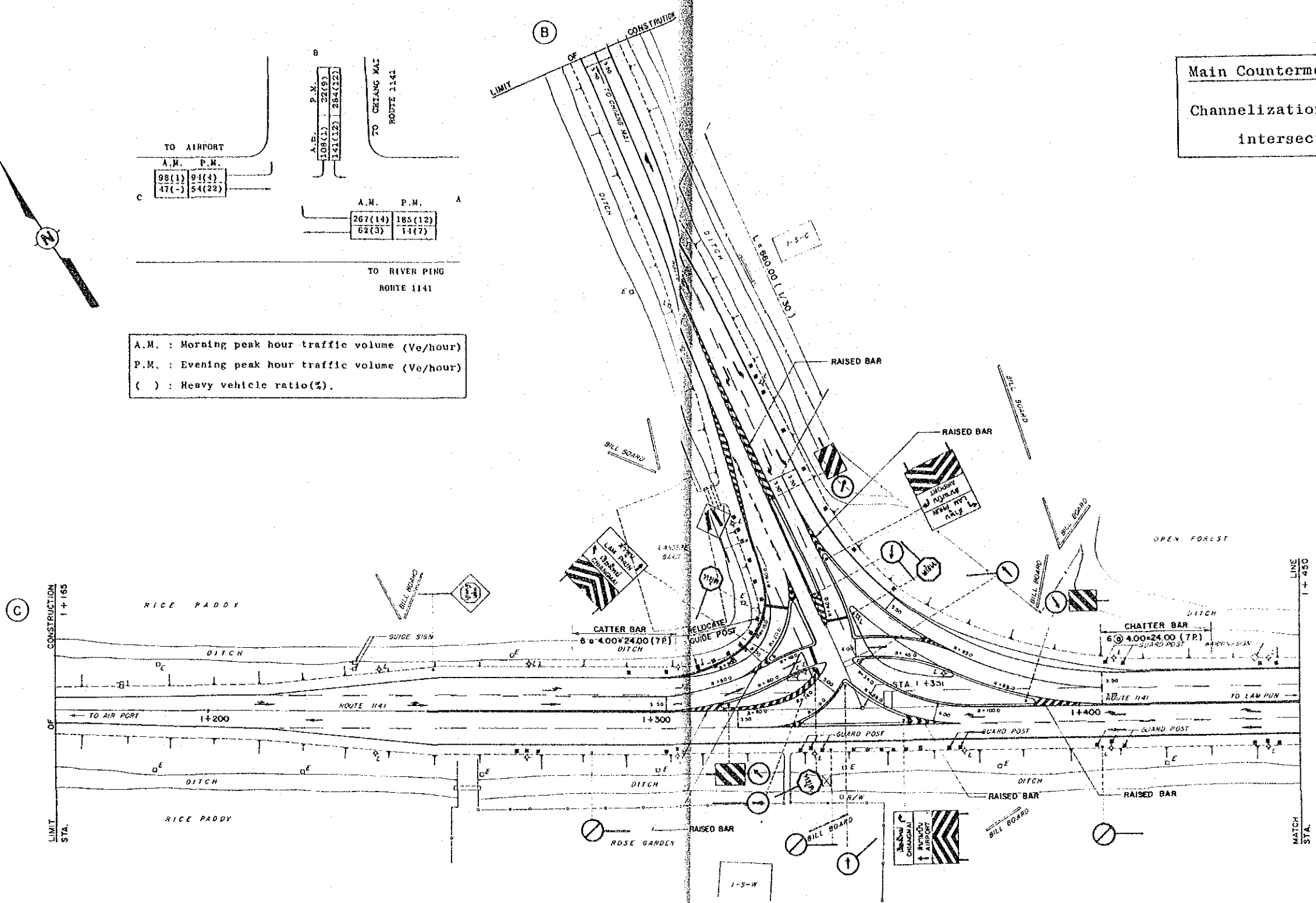
TRAFFIC SAFETY PLAN FOR ROADS

SAFETY PLAN ON STUDY ROAD	SECTION NO. S 13	ROUTE NO. 11
	ROAD TYPE ; MEDIUM INTERSECTION	
DATE ; NOVEMBER, 1984	DWG. NO. A 16	SHEET NO. 16



A.M. : Morning peak hour traffic volume (V_e/hour)
 P.M. : Evening peak hour traffic volume (V_e/hour)
 () : Heavy vehicle ratio(%).

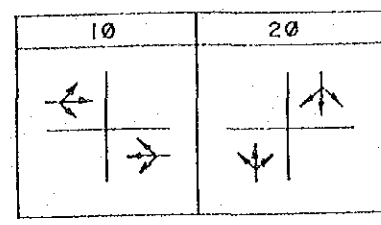
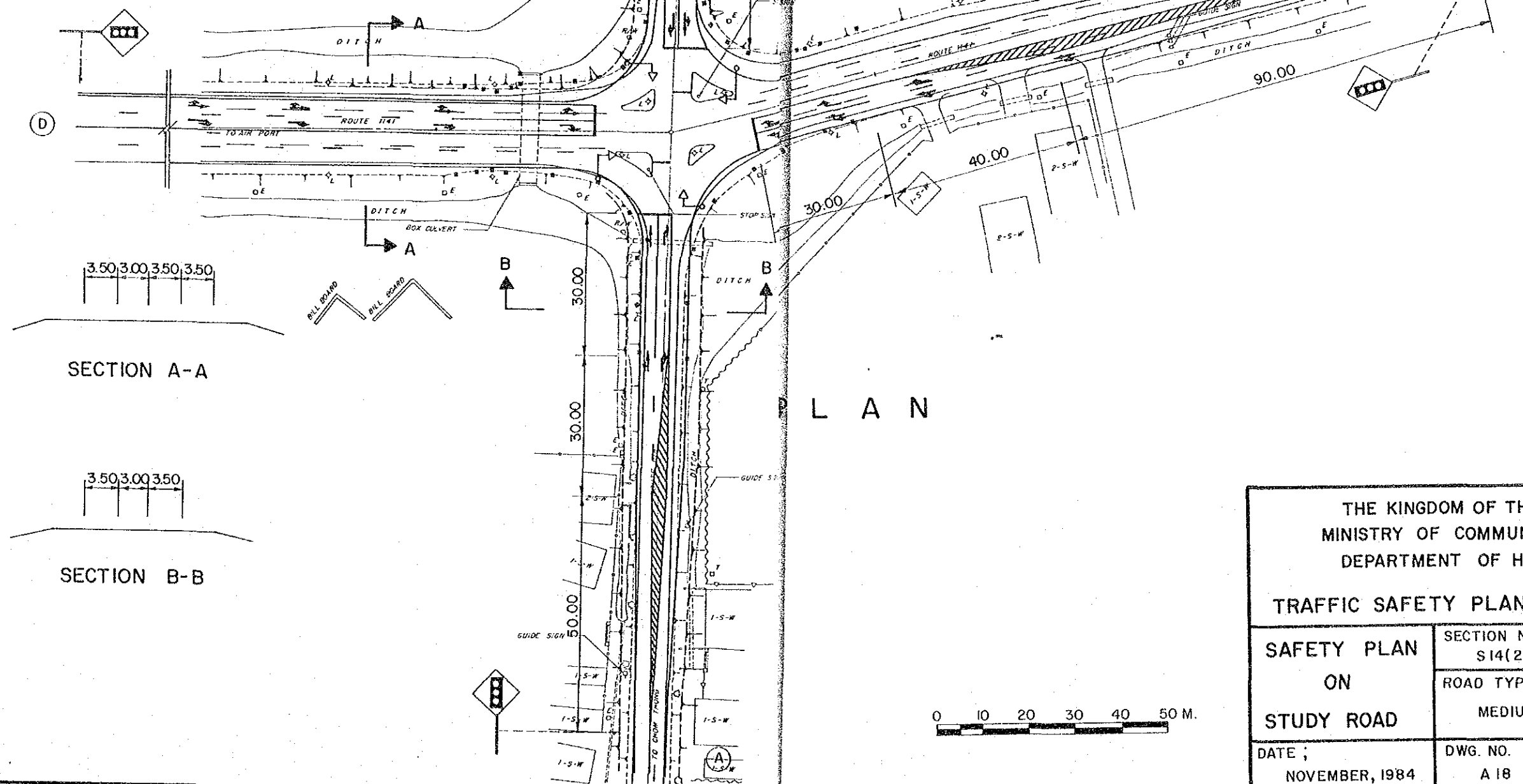
Main Countermeasures
 Channelization at T-shaped
 intersection



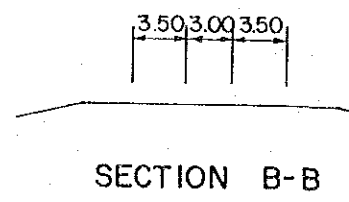
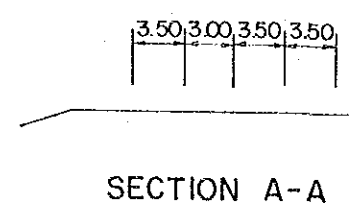
THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S14(1)	ROUTE NO. 1141
	ROAD TYPE ; MEDIUM INTERSECTION	
DATE ; NOVEMBER, 1984	DWG. NO. A17	SHEET NO. 17

TO AIRPORT		TO BANG DONG		TO PING RIVER ROUTE 1141		TO CEIANG MAI	
A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
18(-)	23(-)	124(5)	79(17)	63(8)	53(13)	34(24)	3(-)
126(7)	178(15)	182(9)	128(15)	214(8)	110(9)	28(10)	203(11)
50(7)	114(8)	83(14)	58(15)	50(4)	60(15)	62(7)	81(11)

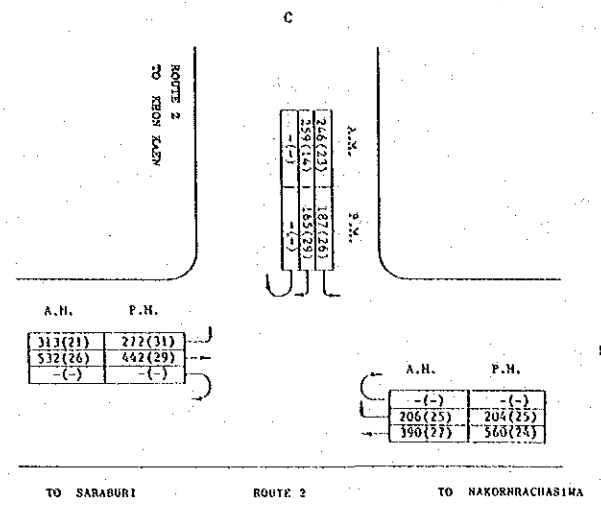
A.M. : Morning peak hour traffic volume (Ve/hour).
P.M. : Evening peak hour traffic volume (Ve/hour).
() : Heavy vehicle ratio (%).



Main Countermeasures
Installation of traffic signals
Installation of right-turning lanes

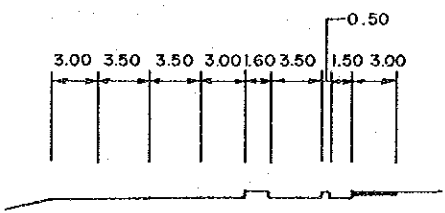
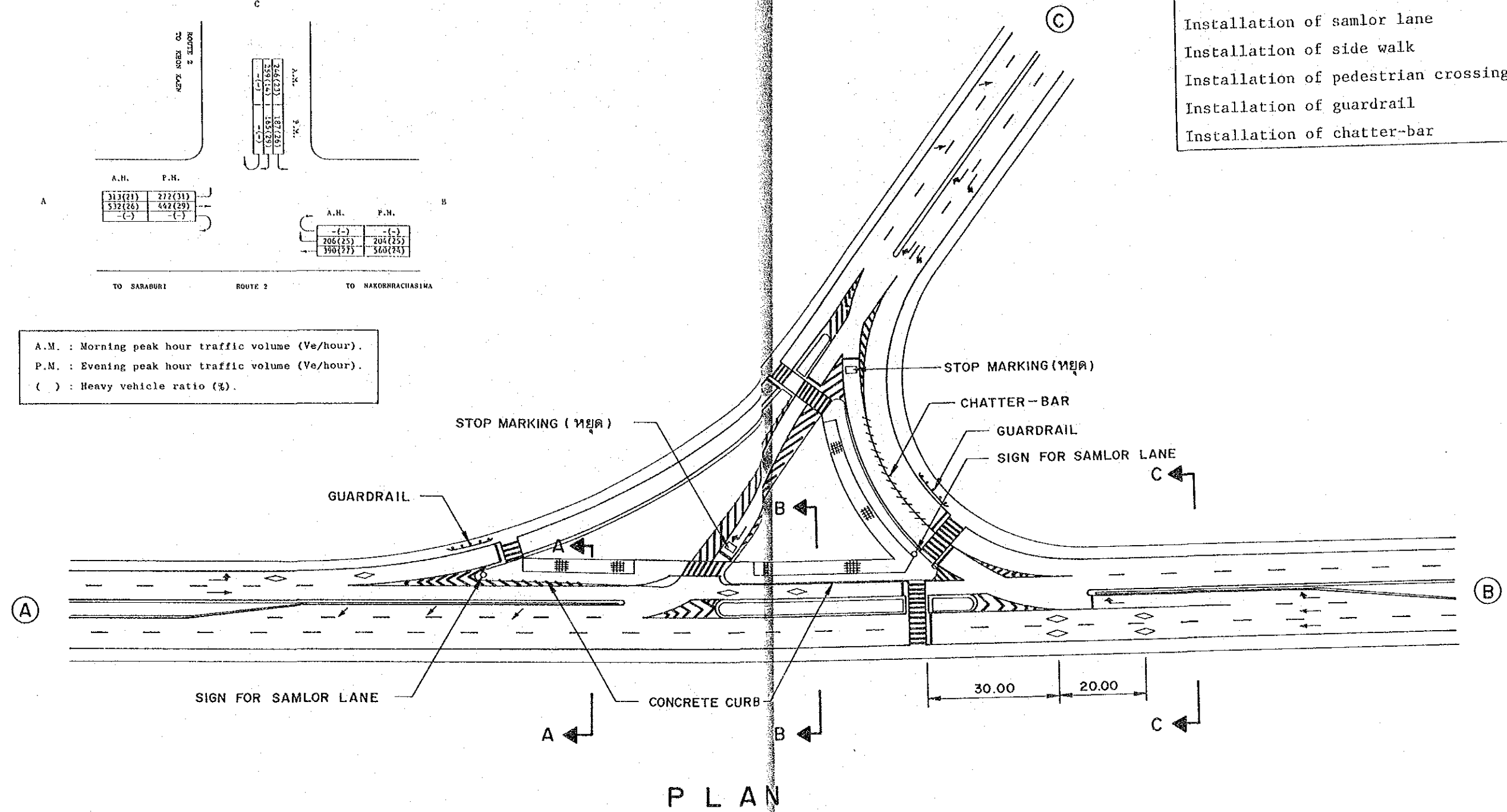


THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S14(2)	ROUTE NO. 1141
	ROAD TYPE ; MEDIUM INTERSECTION	
DATE ; NOVEMBER, 1984	DWG. NO. A 18	SHEET NO. 18

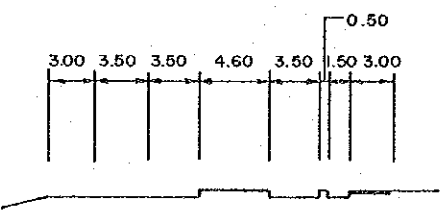


A.M. : Morning peak hour traffic volume (Ve/hour).
 P.M. : Evening peak hour traffic volume (Ve/hour).
 () : Heavy vehicle ratio (%).

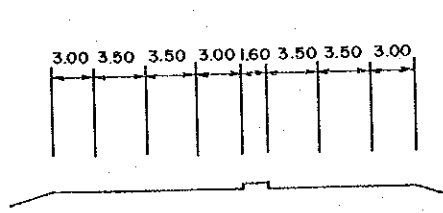
- Main Countermeasures**
- Installation of samlor lane
 - Installation of side walk
 - Installation of pedestrian crossings
 - Installation of guardrail
 - Installation of chatter-bar



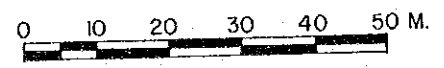
SECTION A-A



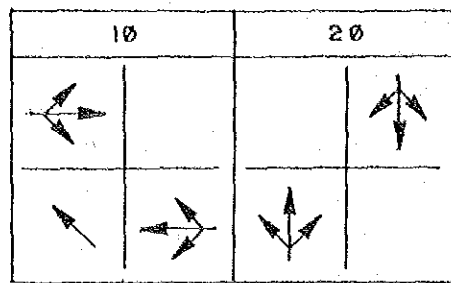
SECTION B-B



SECTION C-C

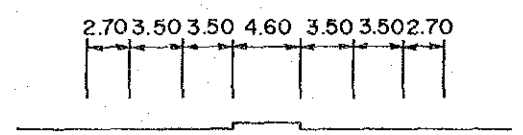
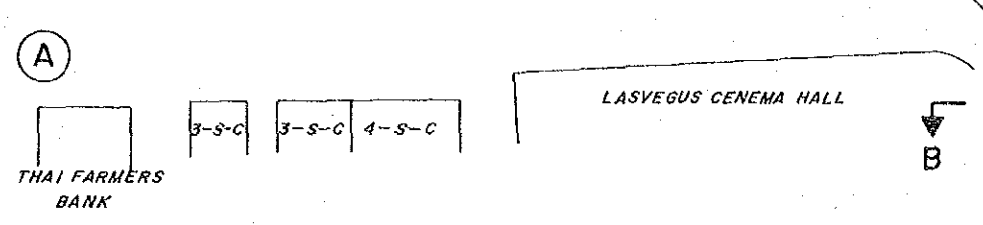
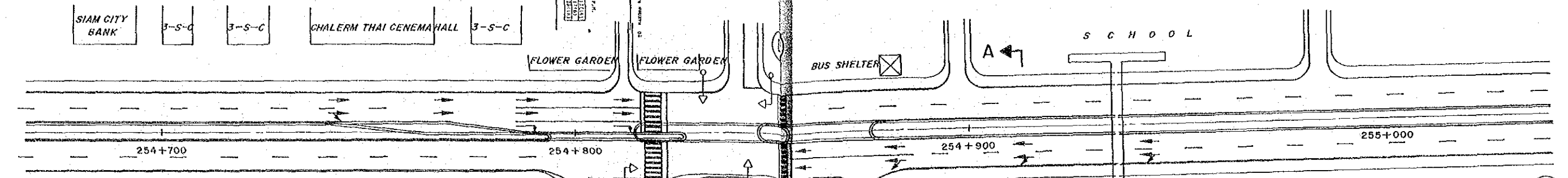


THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S15	ROUTE NO. 2
	ROAD TYPE ; LARGE INTERSECTION	
DATE ; NOVEMBER, 1984	DWG. NO. A19	SHEET NO. 19

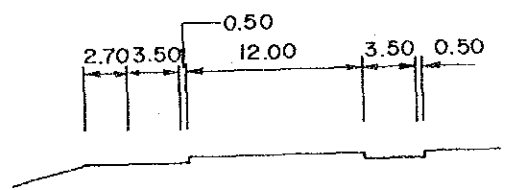


Main Countermeasures
 Installation of traffic signals
 Installation of pedestrian, samlor and bicycle crossings

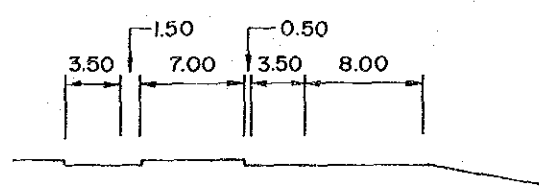
A.M. : Morning peak hour traffic volume (V_e/hour).
 P.M. : Evening peak hour traffic volume (V_e/hour).
 () : Heavy vehicle ratio (%).



SECTION A-A

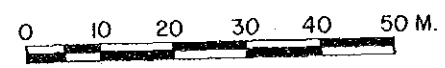


SECTION C-C



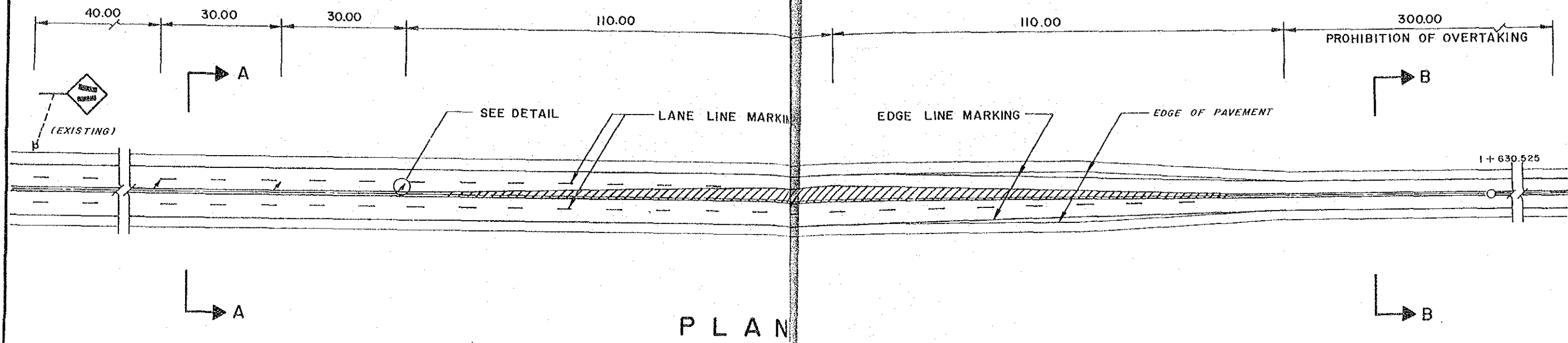
SECTION B-B

PLAN

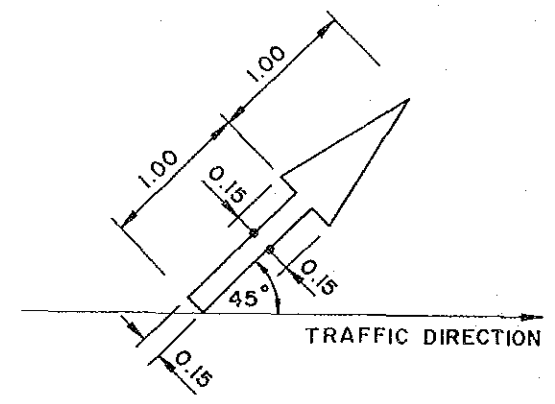


THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S16	ROUTE NO. 2
	ROAD TYPE ; MEDIUM INTERSECTION	
DATE ; NOVEMBER, 1984.	DWG. NO. A 20	SHEET NO. 20

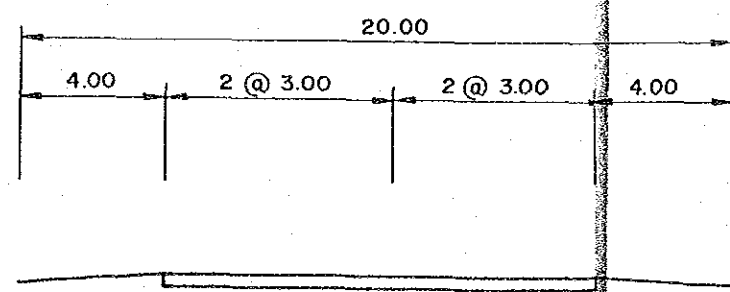
Main Countermeasures
Installation of marking



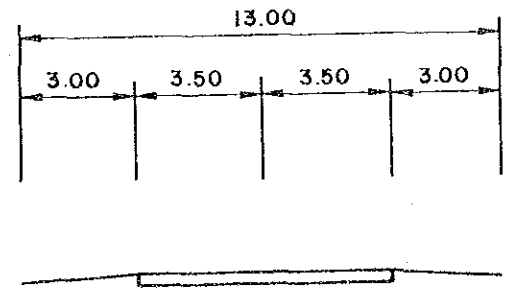
PLAN



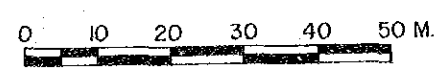
ARROW DETAIL



SECTION A-A

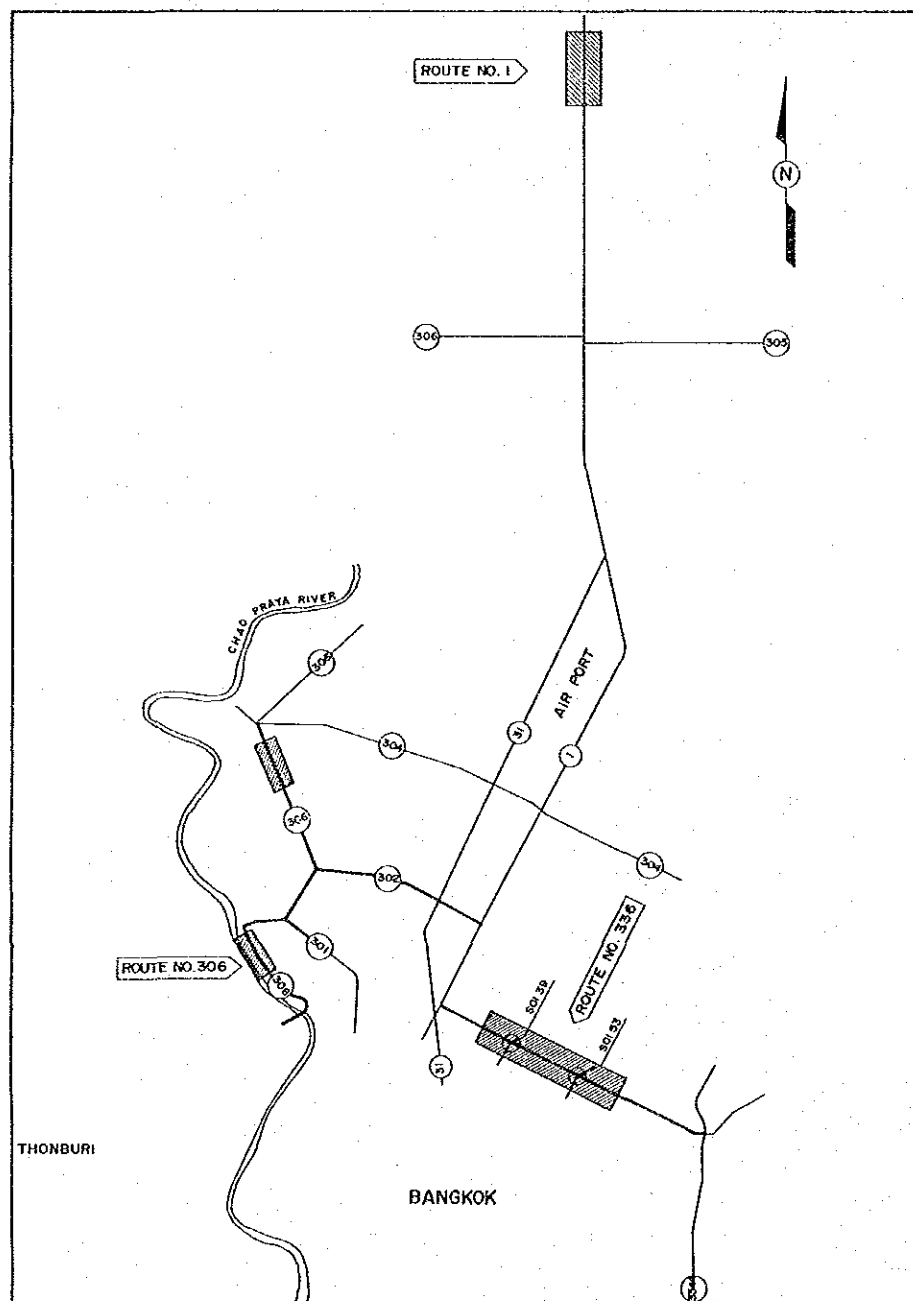
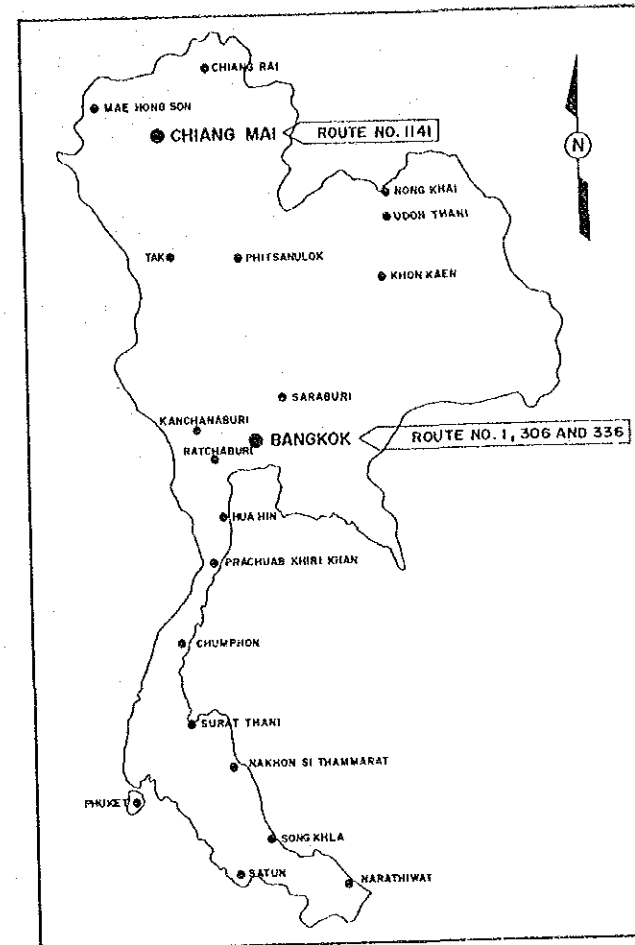
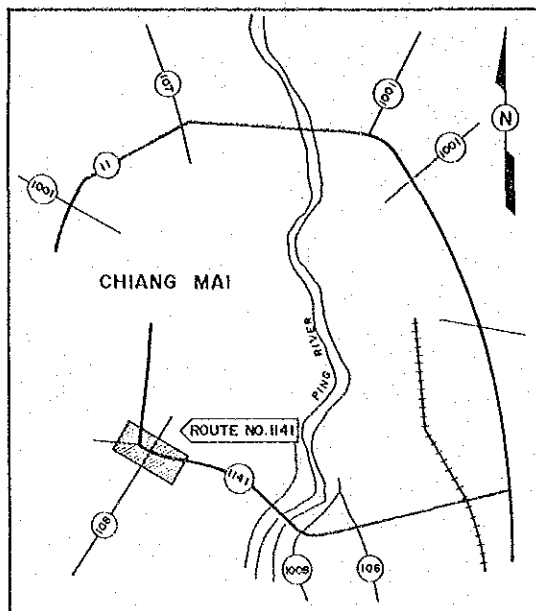


SECTION B-B



THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
SAFETY PLAN ON STUDY ROAD	SECTION NO. S 17	ROUTE NO. 205
	ROAD TYPE ; TANGENT / NARROWING	
DATE ; NOVEMBER, 1984	DWG. NO. A 21	SHEET NO. 21

B. EXPERIMENTAL WORKS



LIST OF DRAWINGS

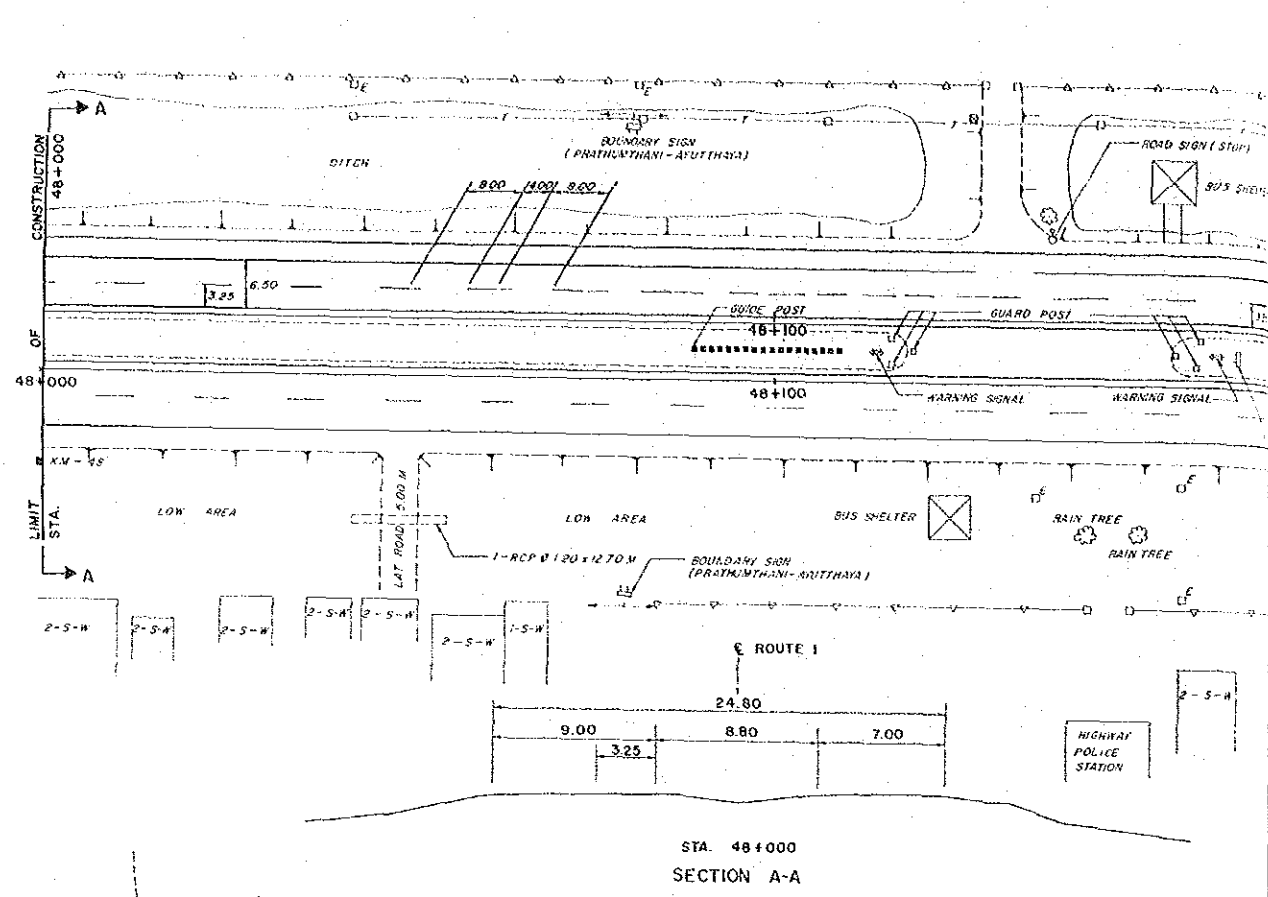
TITLE	DWG. NO.
LOCATION PLAN	B 1
ROUTE NO. 1 LANE LINE MARKING IMPROVEMENT (Km. 48+000 - 48+700)	B 2
ROUTE NO. 1 LANE LINE MARKING IMPROVEMENT (Km. 48+700 - 49+000)	B 3
ROUTE NO. 306 CURVE IMPROVEMENT (Km. 2+800 - 3+200)	B 4
ROUTE NO. 306 SAFEGUARD OF PEDESTRIAN (Km. 13+000 - 14+000)	B 5
ROUTE NO. 336 INTERSECTION IMPROVEMENT (SOI 39)	B 6
ROUTE NO. 336 INTERSECTION IMPROVEMENT (SOI 53)	B 7
ROUTE NO. 1141 INTERSECTION IMPROVEMENT (KP. 1+300)	B 8
ROUTE NO. 1141 MARKING IMPROVEMENT (KP. 1+550)	B 9
DETAIL OF TRAFFIC SIGN AND ROAD MARKING	B 10

THE KINGDOM OF THAILAND
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF HIGHWAYS
TRAFFIC SAFETY PLAN FOR ROADS

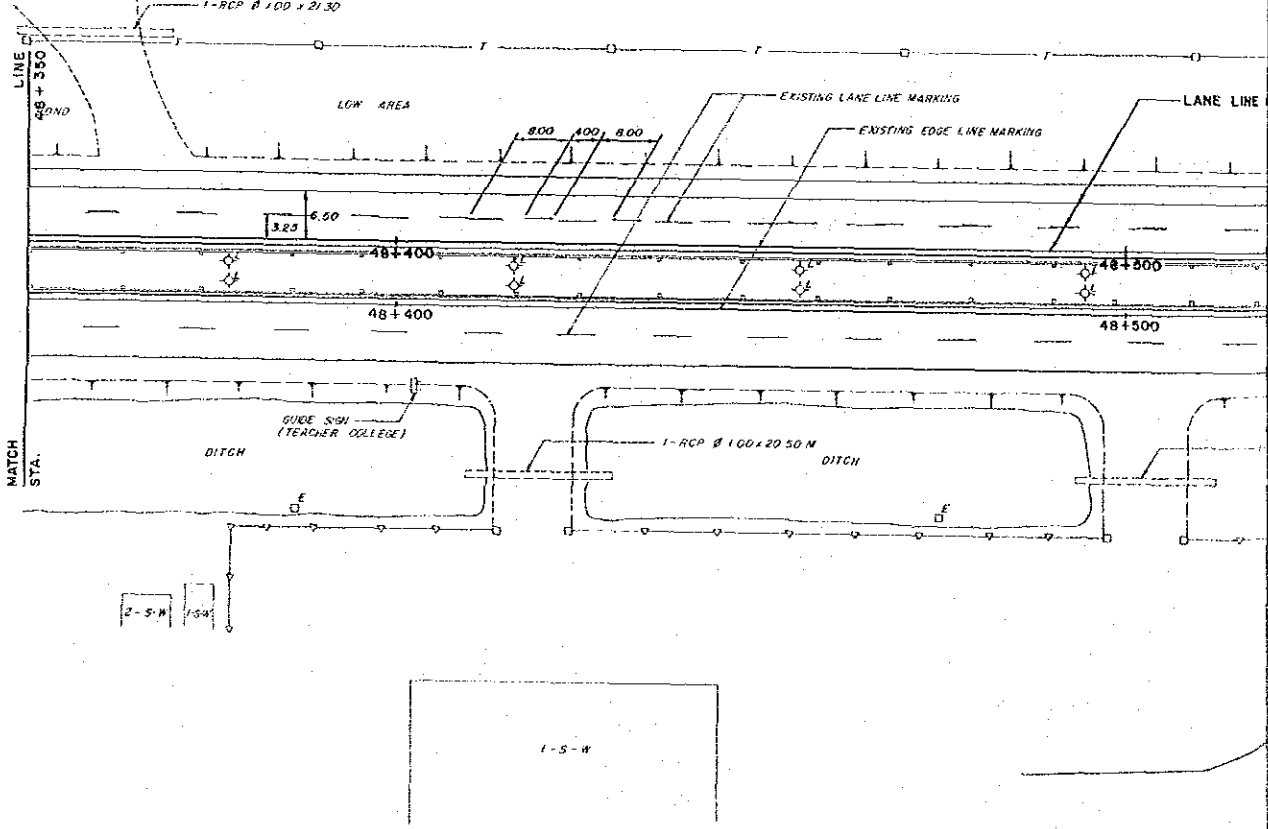
EXPERIMENTAL WORKS	ROUTE NO.	
	LOCATION MAP	
DATE ; MARCH, 1984	DWG. NO. B 1	SHEET NO. 22



PETCHA BURI WITH HAYALONGKORN TEACHING COLLEGE

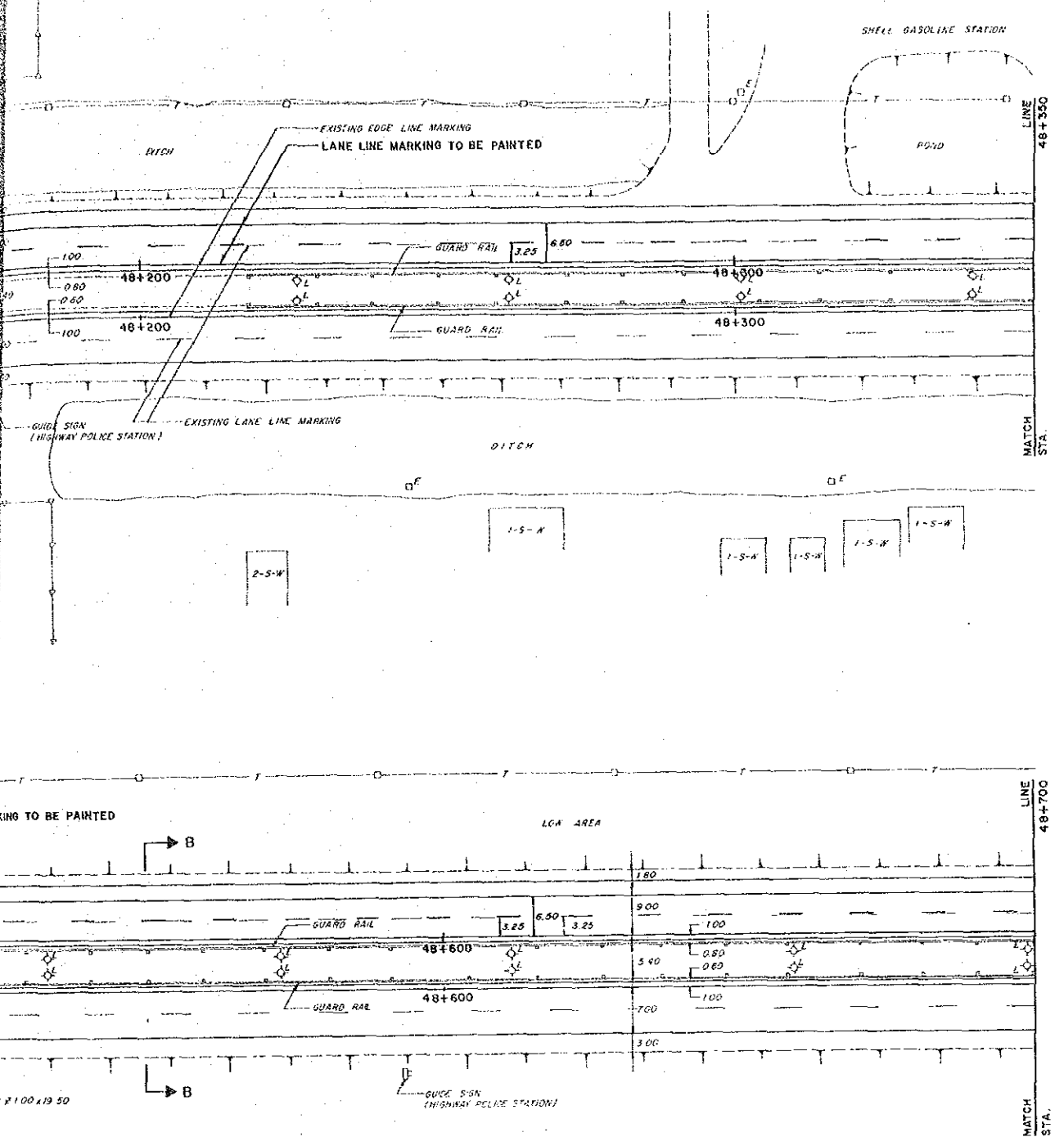
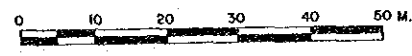


STA. 48+000
SECTION A-A

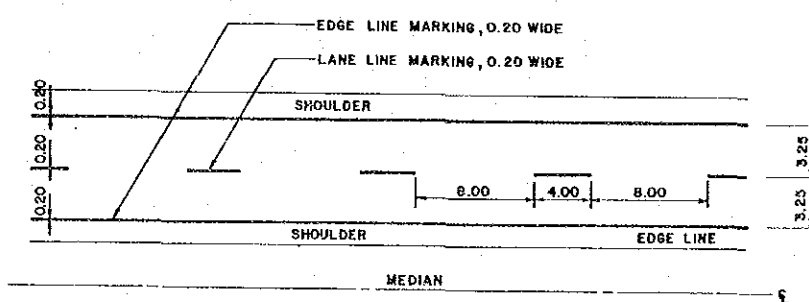
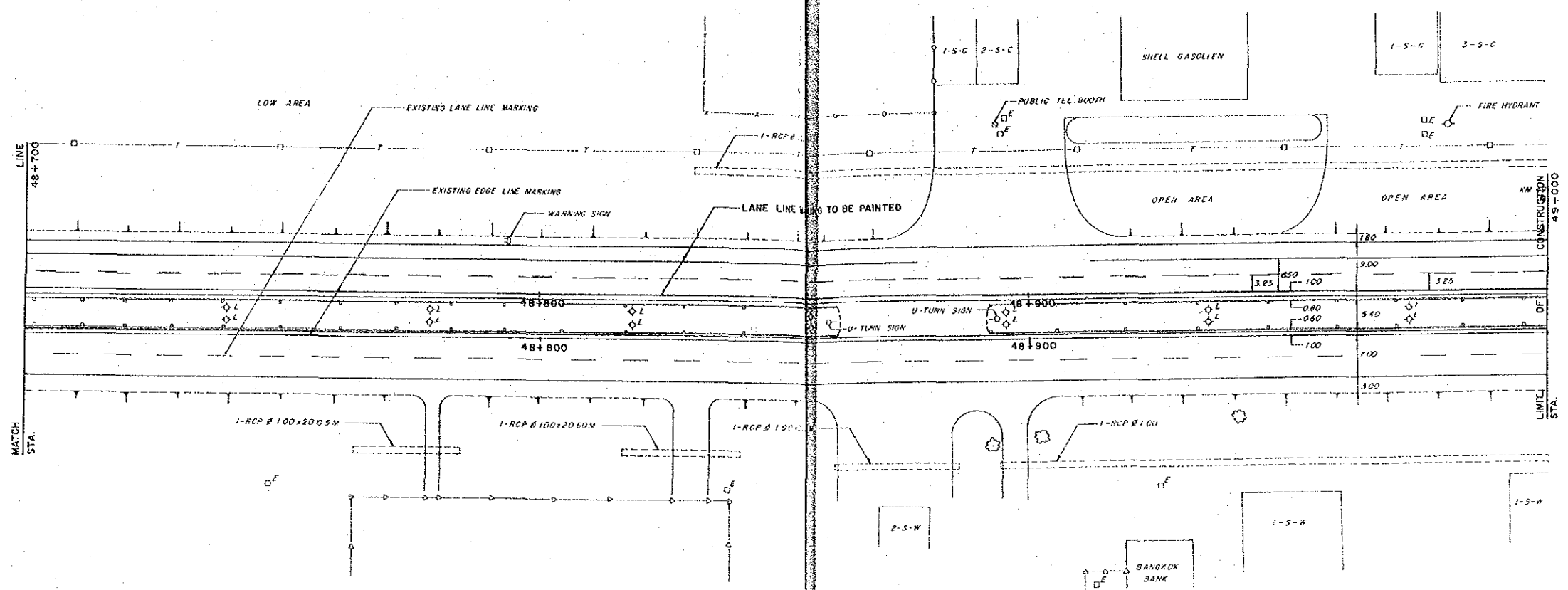
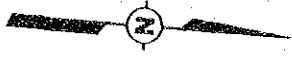


- NOTES
1. ALL DIMENSIONS ARE TO BE IN METER.
 2. SEE DWG. NO. 8011 FOR COLOR AND TYPE OF PAINT.
 3. THE EXISTING MARKING SHALL BE CLEARLY BLOCKED OUT.
 4. FOR TYPICAL LANE MARKING SEE DWG. NO. 83
 5. MARKING SHALL BE INSTALLED ON LEFT CARRIAGEWAY ONLY.

STA. 48+550
SECTION B-B

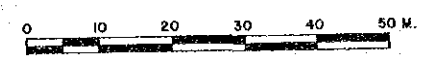


THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
EXPERIMENTAL WORKS	ROUTE NO. 1	
	LANE LINE IMPROVEMENT (KP. 48+000-48+700)	
DATE ; MARCH, 1984	DWG. NO. B 2	SHEET NO. 23

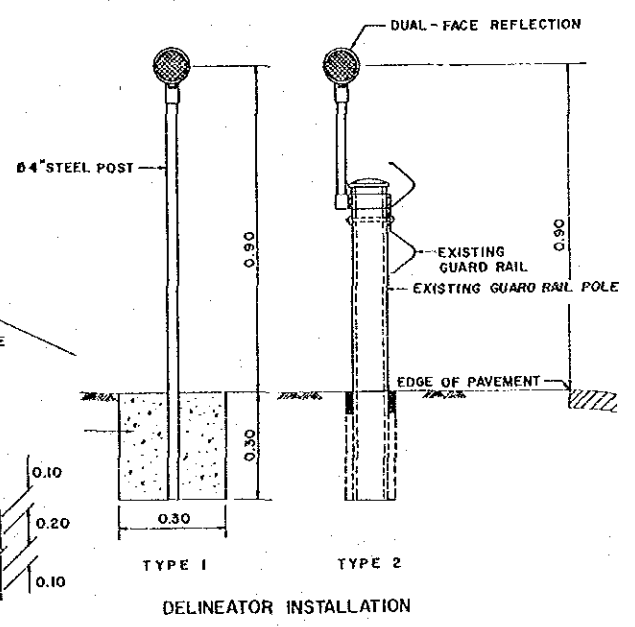
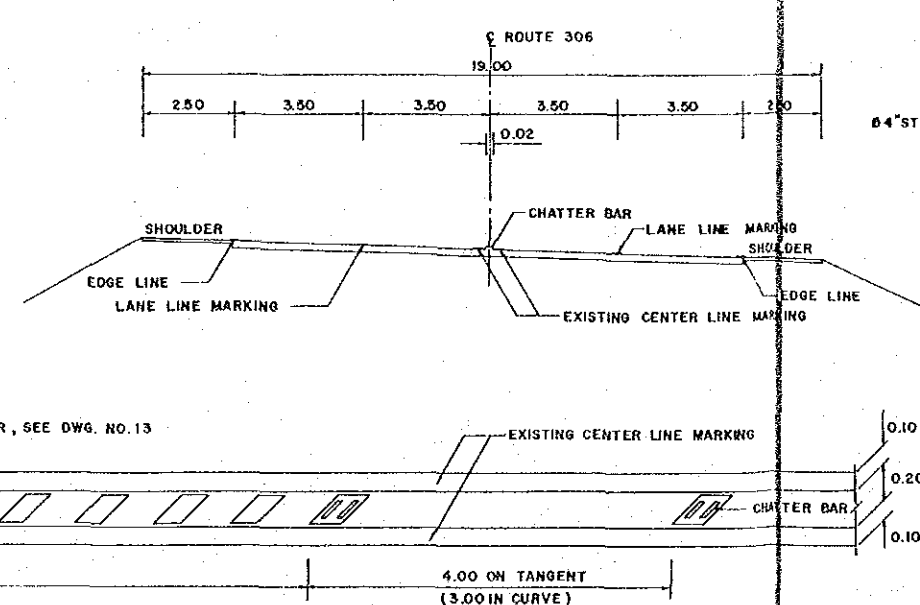
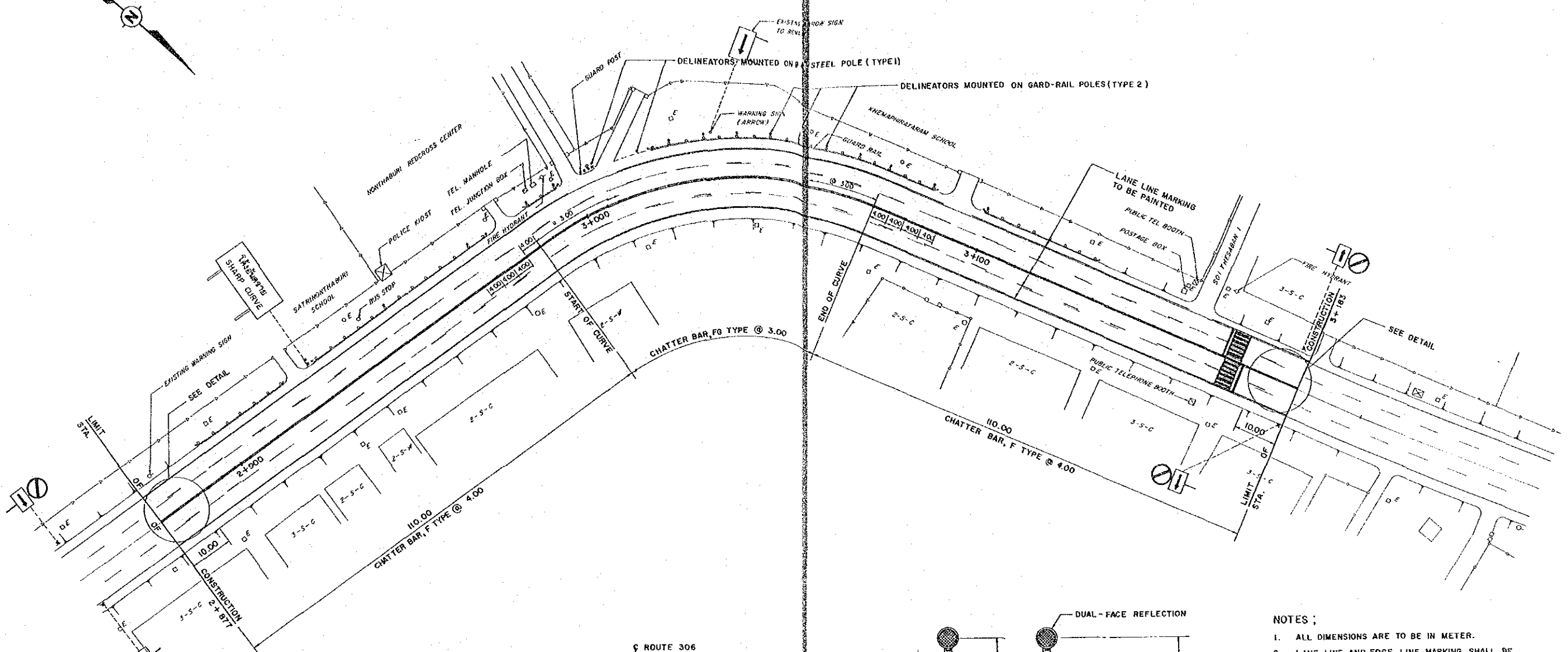
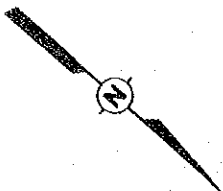


TYPICAL LINE MARKING

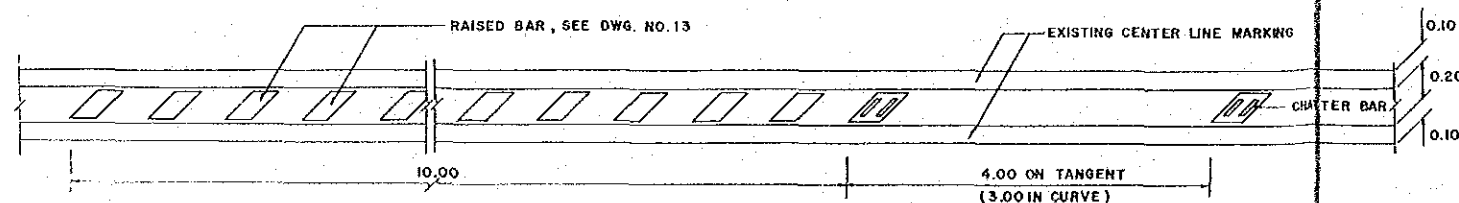
- NOTES
1. ALL DIMENSIONS ARE TO BE IN METER
 2. LANE LINE MARKING SHALL BE INSTALLED ON LEFT CARRIAGEWAY ONLY.



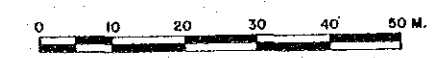
THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS TRARFFIC SAFETY PLAN FOR ROADS		
EXPERIMENTAL WORKS	ROUTE NO.	
	LANE LINE IMPROVEMENT (KP. 48+700 - 49+000)	
DATE ; MARCH, 1984	DWG. NO. B 3	SHEET NO. 24



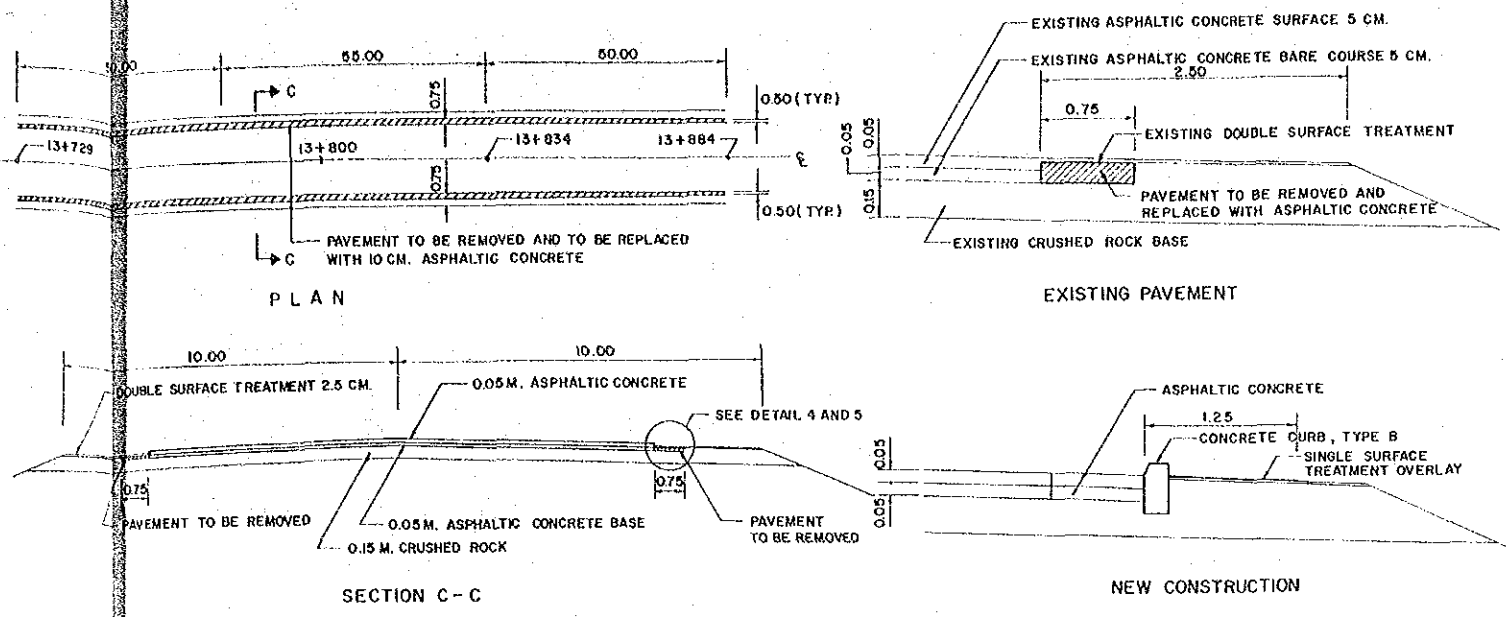
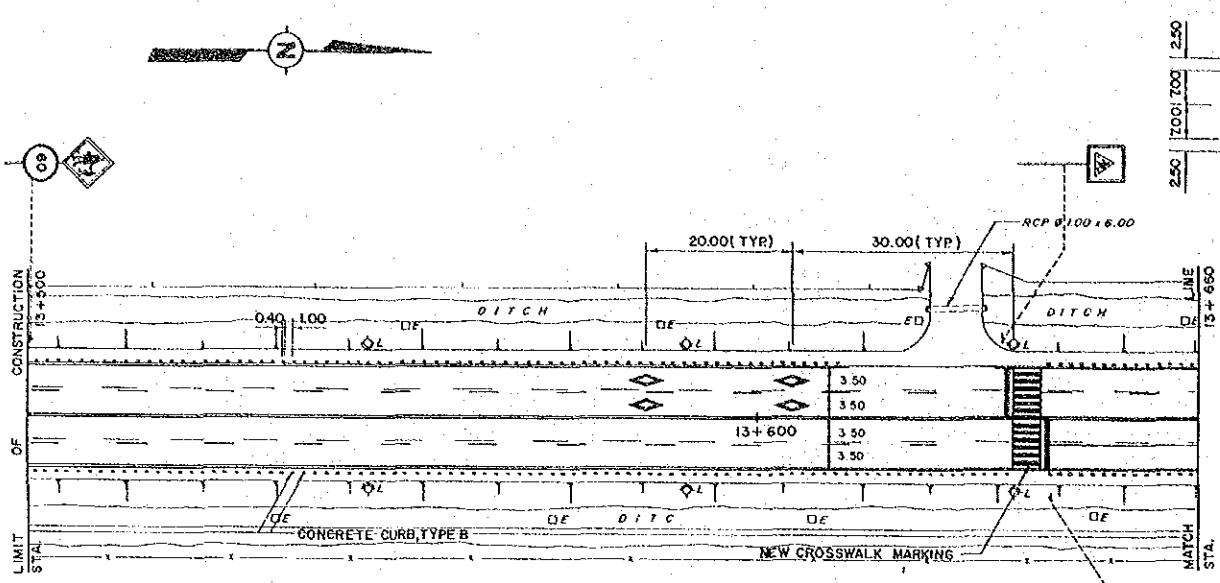
- NOTES ;
1. ALL DIMENSIONS ARE TO BE IN METER.
 2. LANE LINE AND EDGE LINE MARKING SHALL BE AS SHOWN ON DWG. NO. B10
 3. CHATTER BAR SHALL BE MODEL FGL-17W AND F-17 W OR EQUIVALENT
 4. DELINEATOR SHALL BE MODEL DWAP 34-2040 OR EQUIVALENT



DETAILS ; RAISED BAR AND CHATTER BAR ARRANGEMENT

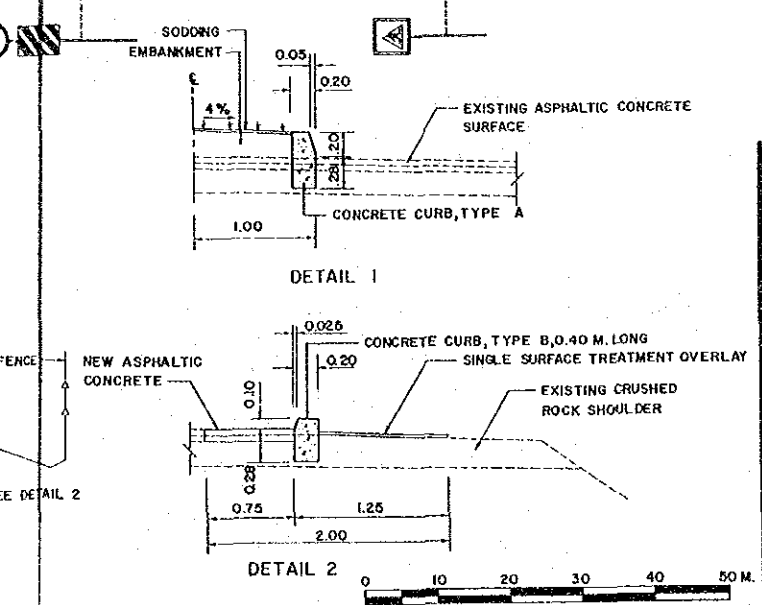
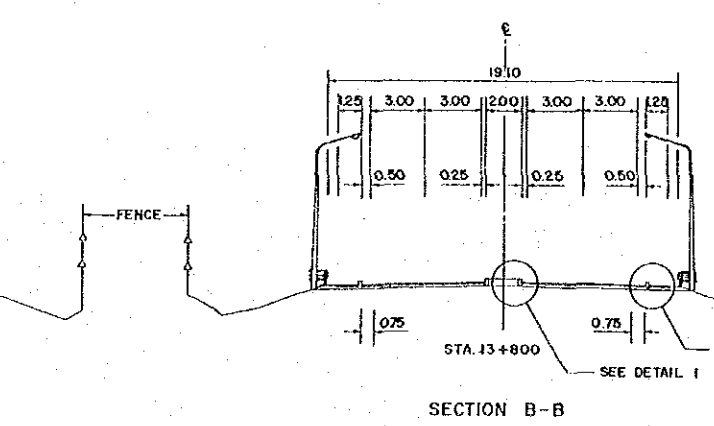
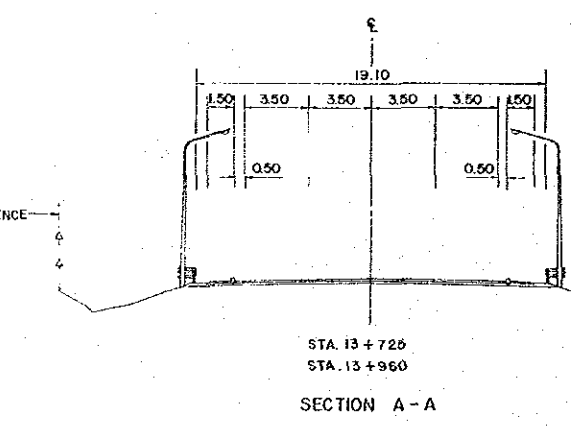
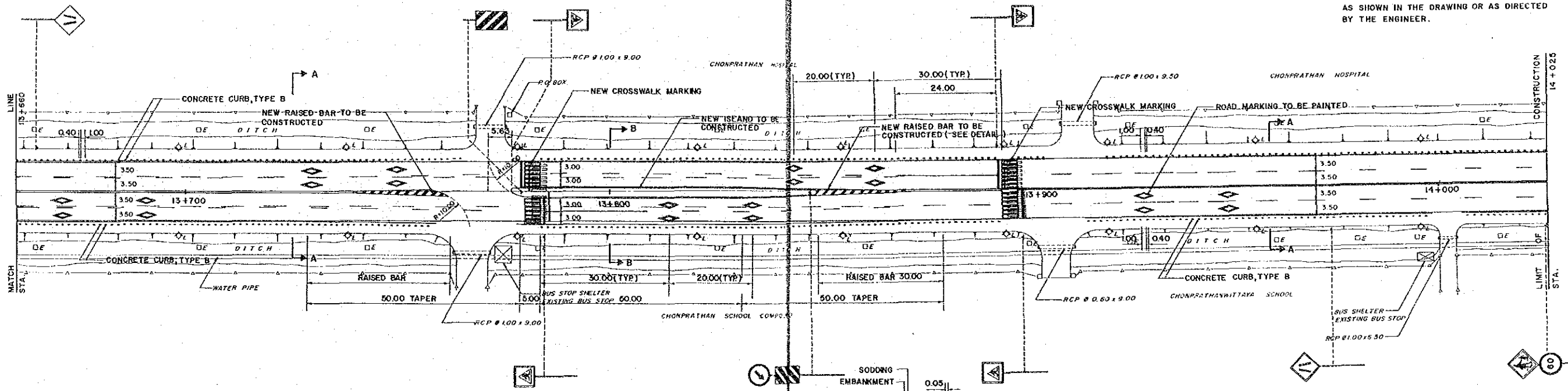


THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS TRAFFIC SAFETY PLAN FOR ROADS		
EXPERIMENTAL WORKS	ROUTE NO.	306
	CURVE IMPROVEMENT (KP. 2+800 - 3+200)	
DATE ;	DWG. NO.	SHEET NO.
MARCH, 1984	B4	25

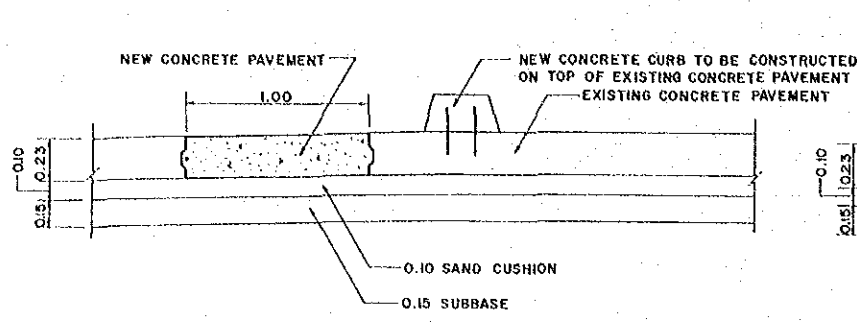


EXISTING PAVEMENT STRUCTURES TO BE REMOVED
ROUTE 306 STA. 13 + 729 TO STA. 13 + 884

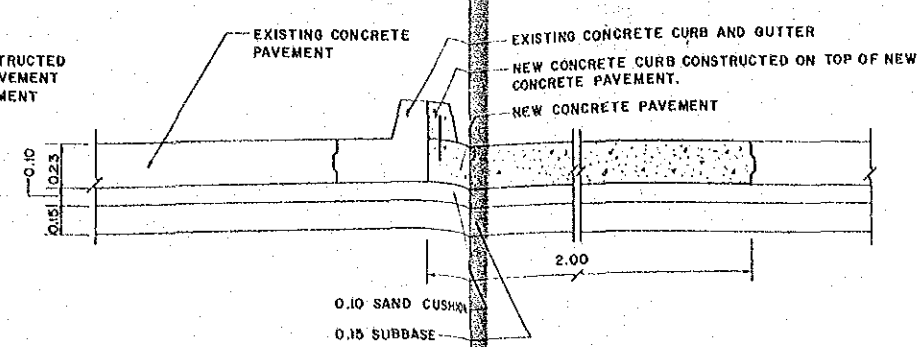
- NOTES
1. ALL DIMENSIONS ARE TO BE IN METER.
 2. CURBS ON SHOULDER SHALL BE MADE OF PRECAST CONCRETE AND SHALL BE INSTALLED AS SHOWN IN THE DRAWING OR AS DIRECTED BY THE ENGINEER.



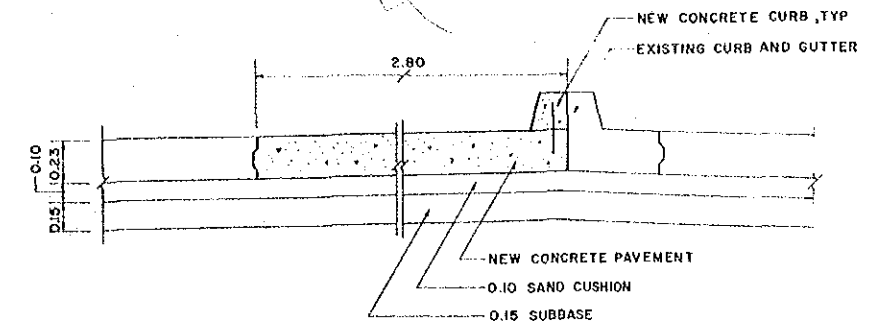
THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS		
TRAFFIC SAFETY PLAN FOR ROADS		
EXPERIMENTAL WORKS	ROUTE NO.	306
	SAFEGUARD OF PEDESTRIAN (KP. 13 + 000 - 14 + 000)	
DATE ; MARCH, 1984	DWG. NO. B 5	SHEET NO. 26



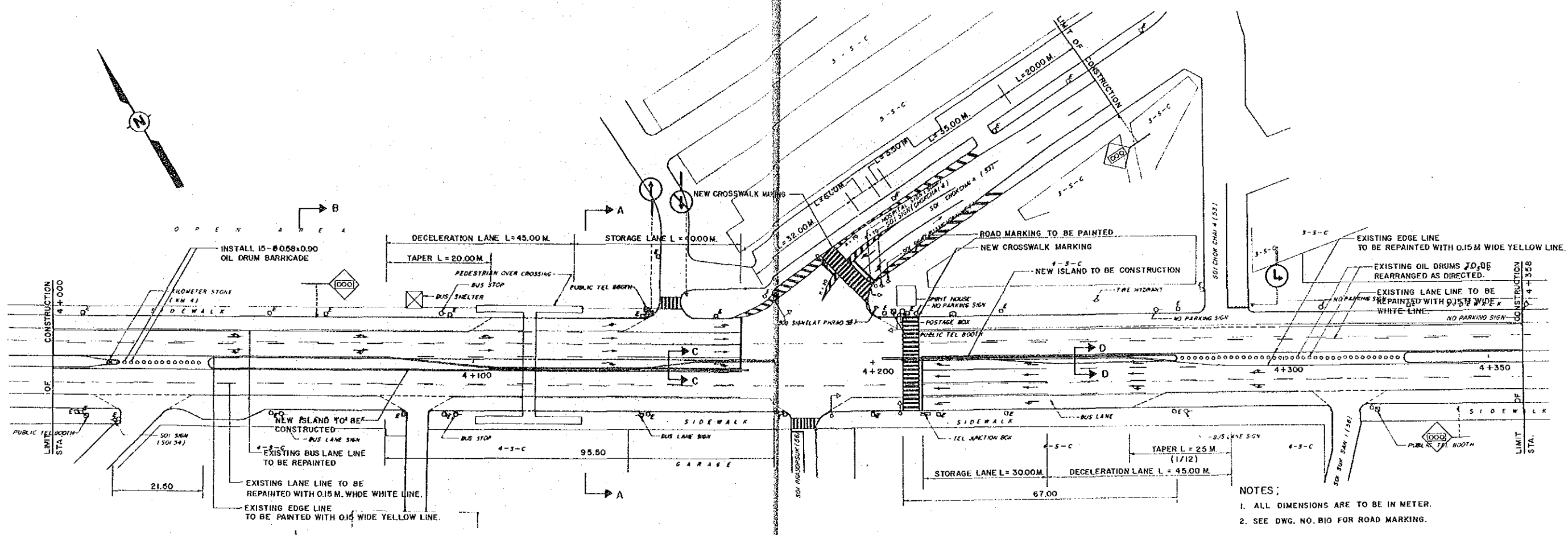
SECTION C - C; DETAIL OF NEW CONSTRUCTION



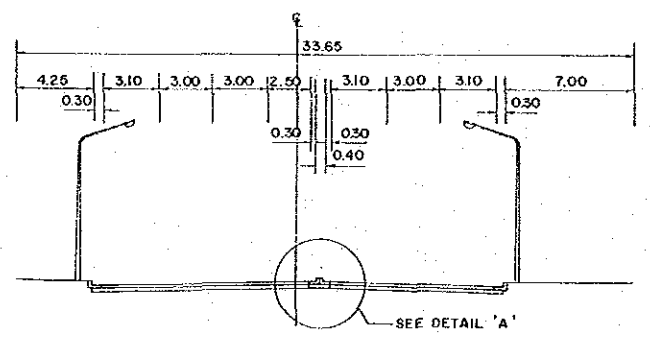
SECTION D - D; DETAIL OF NEW CONSTRUCTION



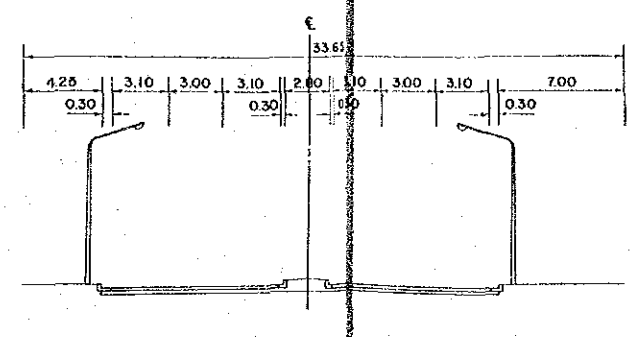
DETAIL 'A'; NEW CONSTRUCTION



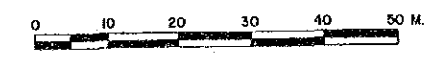
- NOTES:
1. ALL DIMENSIONS ARE TO BE IN METER.
 2. SEE DWG. NO. B10 FOR ROAD MARKING.



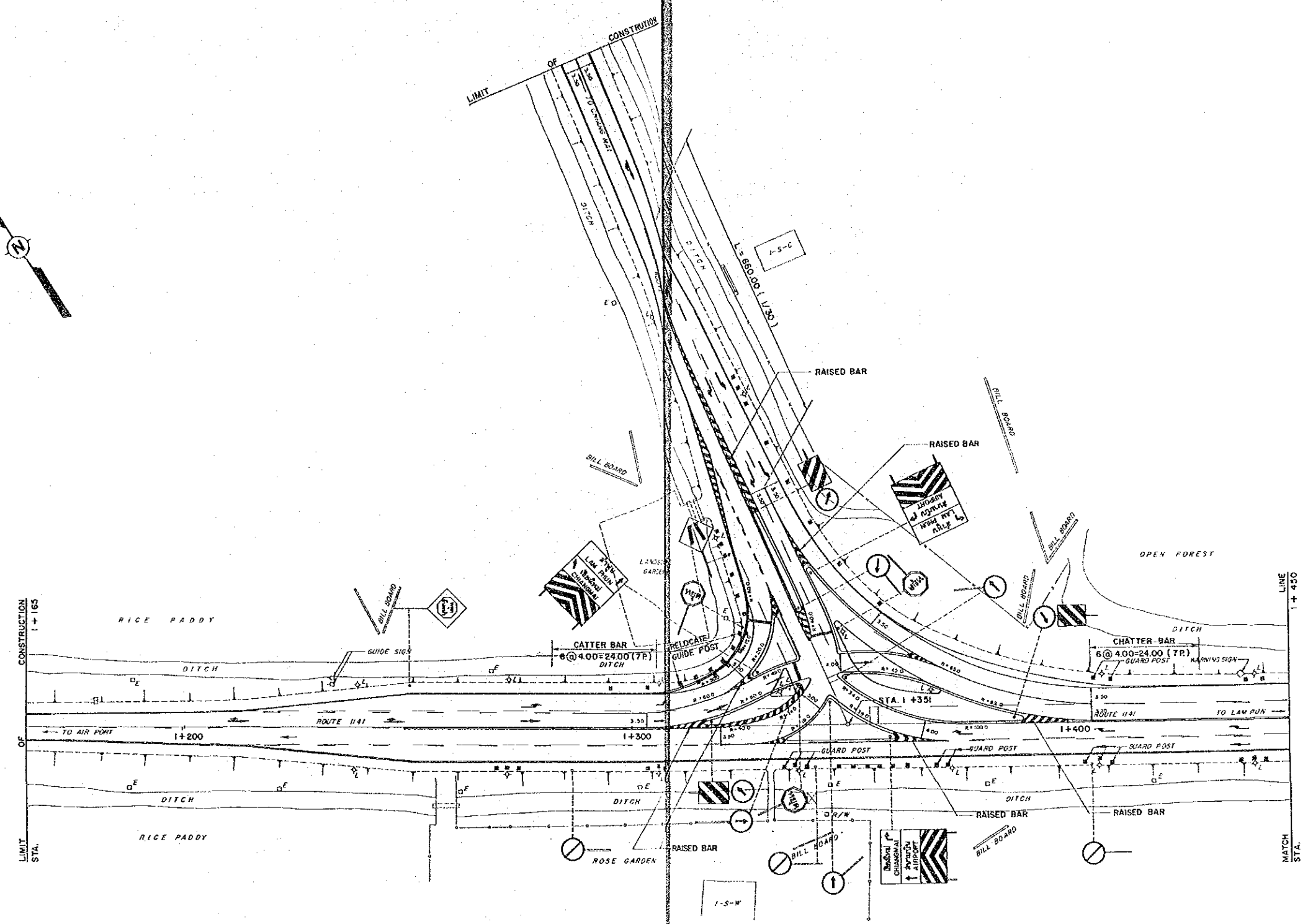
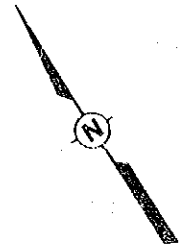
SECTION A - A



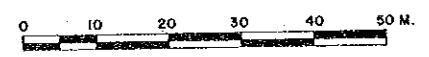
SECTION B - B



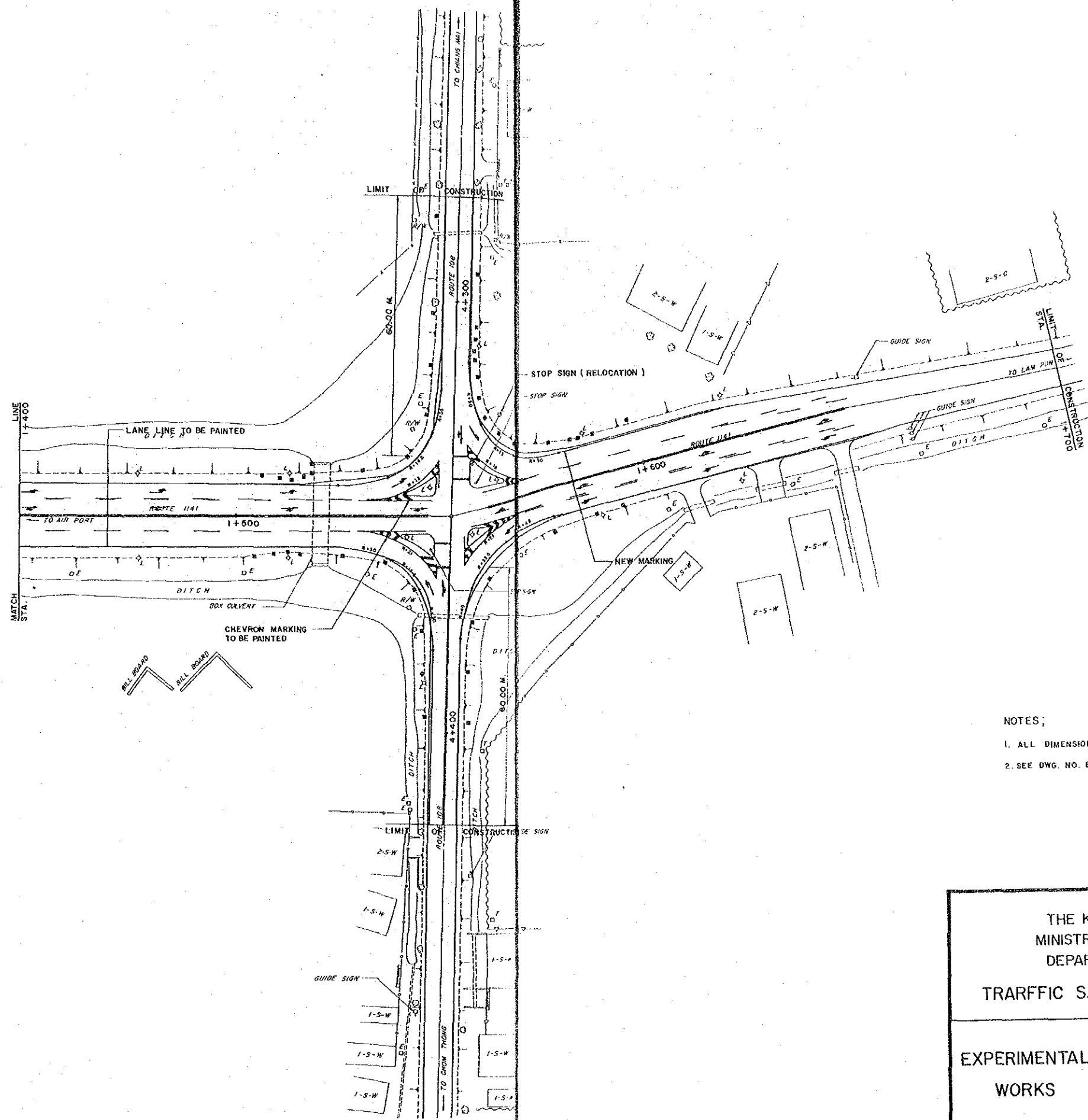
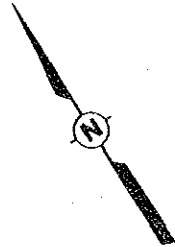
THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS TRARFFIC SAFETY PLAN FOR ROADS		
EXPERIMENTAL WORKS	ROUTE NO.	336
	INTERSECTION IMPROVEMENT (SOI 53)	
DATE ;	DWG. NO.	SHEET NO.
MARCH, 1984	B7	28



- NOTES:
1. ALL DIMENSIONS ARE TO BE IN METER.
 2. SEE DWG. NO. B10 FOR ROAD MARKING.
 3. NEW PAVEMENT SHALL BE THE SAME STRUCTURE AS EXISTING PAVEMENT OR AS DIRECTED BY THE ENGINEER.
 4. HEIGHT OF CURB ARE TO BE 15 CM.

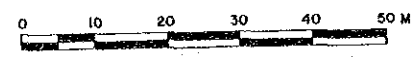


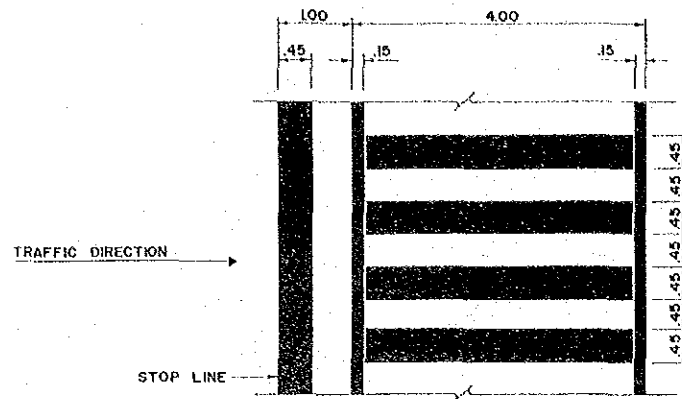
THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS TRAFFIC SAFETY PLAN FOR ROADS		
EXPERIMENTAL WORKS	ROUTE NO. 1141	
	INTERSECTION IMPROVEMENT (KP. 1+300)	
DATE ; MARCH, 1984	DWG. NO. B 8	SHEET NO. 29



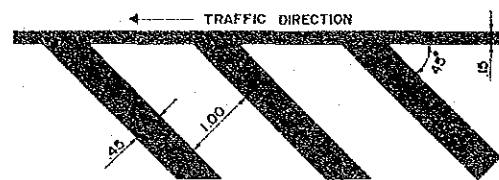
NOTES;
 1. ALL DIMENSIONS ARE TO BE IN METER.
 2. SEE DWG. NO. B10 FOR ROAD MARKING.

THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS TRARFFIC SAFETY PLAN FOR ROADS		
EXPERIMENTAL WORKS	ROUTE NO. 1141	
	MARKING IMPROVEMENT (K.P. 1+550)	
DATE; MARCH, 1984	DWG. NO. B 9	SHEET NO. 30

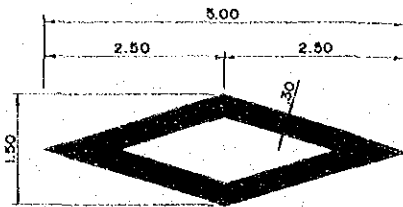




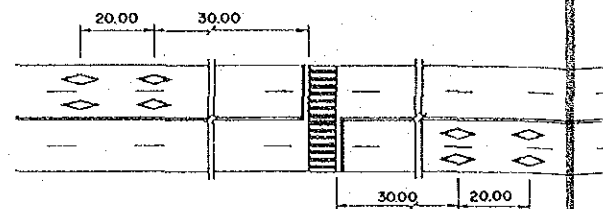
PEDESTRIAN CROSSWALK



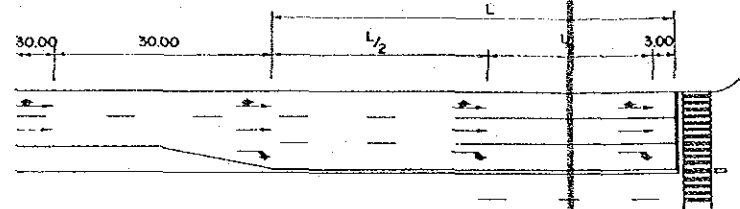
CHEVRON MARKING



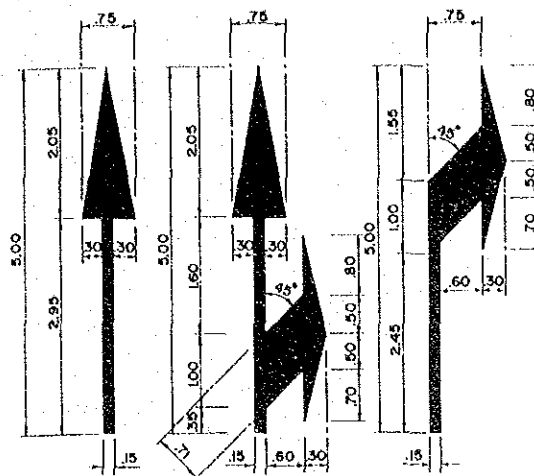
WARNING MARKING



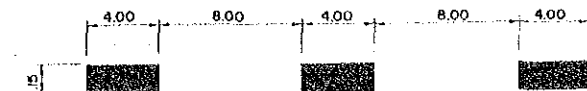
WARNING MARKING ARRANGEMENT



DIRECTION ARROW ARRANGEMENT MARKING ARRANGEMENT



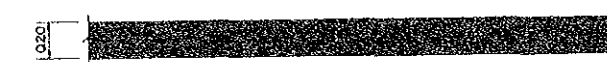
DIRECTIONAL ARROW



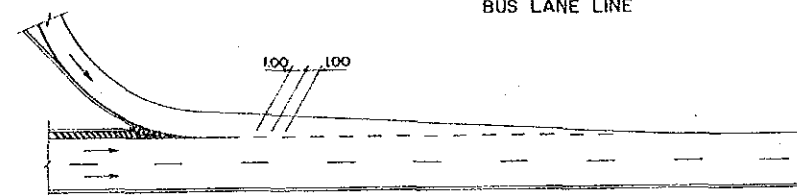
LANE LINE MARKING



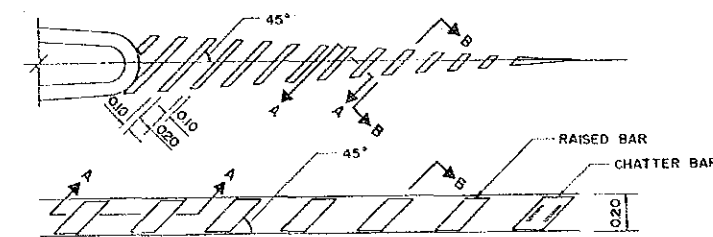
CENTER LINE MARKING



BUS LANE LINE



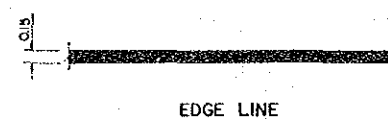
ACCELERATION LINE MARKING



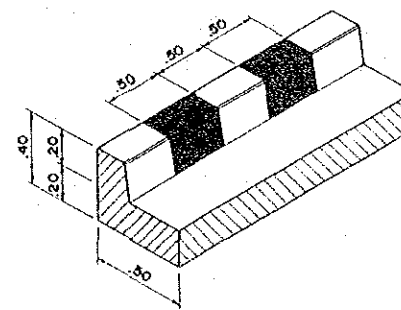
RAISED BAR

LIST OF MARKINGS

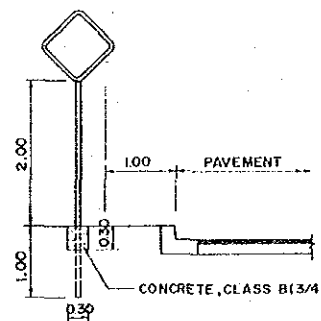
DESCRIPTION	COLOR		PAINT/ ROUTE	
	WHITE	YELLOW	REFLECTORIZED THERMOPLASTIC WITH BALLOTTINI SURFACE 1.70mm	REFLECTORIZED ROAD PAINT WITH BALLOTTINI SURFACE
1. STOP LINE, PEDESTRIAN CROSSWALK AND WARNING MARKING.	X		1, 306, 336 AND 1141	
2. LANE LINE	X		1 AND 306	336 AND 1141
3. EDGE LINE, MEDIAN SIDES		X	1 AND 306	1141
4. EDGE LINE, SHOULDER SIDES	X		1 AND 306	1141
5. CENTERLINE		X	306	1141
6. BUS LANE LINE		X	336	
7. DIRECTIONAL ARROW	X		336 AND 1141	
8. CHEVRON				336 AND 1141
9. OTHER	AS DIRECTED BY THE ENGINEER			



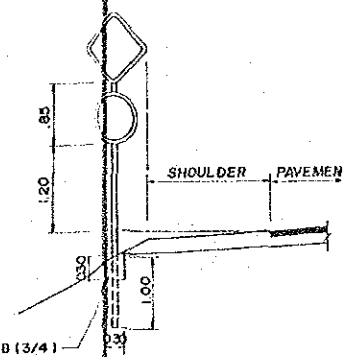
EDGE LINE



CURB MARKING



CONCRETE, CLASS B (3/4)



CONCRETE, CLASS B (3/4)

TYPICAL TRAFFIC SIGN INSTALLATION

- NOTES :
1. WIDTH OF LANE LINE MARKING FOR ROUTE 1 (DWG. NO. B2 AND B3) SHALL BE 0.20 METER WIDE
 2. DIMENSIONS ARE IN METER, UNLESS OTHERWISE SHOWN.
 3. TYPE OF PAINT, COLOR AND DIMENSIONS OF ROAD MARKINGS SHALL BE AS SHOWN IN THIS DWG. UNLESS OTHERWISE SPECIFIED.
 4. DISTANCE "L" SHALL BE STORAGE LENGTH AT EACH SPECIFIC LOCATION.
 5. RAISED BAR SHALL BE MADE OF ASPHALTIC CONCRETE AND SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWING OR AS DIRECTED BY THE ENGINEER.

THE KINGDOM OF THAILAND
 MINISTRY OF COMMUNICATIONS
 DEPARTMENT OF HIGHWAYS
 TRAFFIC SAFETY PLAN FOR ROADS

EXPERIMENTAL WORKS	ROUTE NO.	
	DETAIL OF TRAFFIC SIGN AND ROAD MARKING	
DATE ; MARCH, 1984	DWG. NO. B10	SHEET NO. 31

A stylized graphic element consisting of thick black lines with white borders. It features a horizontal line that transitions into a diagonal line sloping upwards to the right, and then another horizontal line. The word "JICA" is printed in a white, stylized font on the horizontal section.

JICA