

THE DETAILED DESIGN STUDY ON  
AREA TRAFFIC CONTROL PROJECT IN BANGKOK  
IN THE KINGDOM OF THAILAND

SUPPLEMENTARY VOLUME  
PART 8  
INTERSECTION EXISTING LAYOUT PLANS

FINAL REPORT

OCTOBER 1990

JAPAN INTERNATIONAL COOPERATION AGENCY

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## INTERSECTION EXISTING LAYOUT PLANS

This volume contains drawings of all intersections to be included in the proposed Bangkok ATC System-Stage I Project. Each of these drawings indicates the configuration of the existing intersection, the location of the existing traffic signal equipment and also the signal lantern aspects. The drawings are the results of three months' on site surveys by the JICA Study Team members from March to June of 1990 in Bangkok using intersection drawings furnished by BMA as the base. Information contain in these drawings are therefore valid and up to date as of 15th of June 1990.

These plans form the basis for the design of the proposed signal system and related works for the Bangkok ATC System. These drawings by themselves are informative and useful documents for BMA's traffic engineers and civil engineers alike.



**LEGEND**

TRAFFIC SIGNAL UNDER STAGE I ATC SYSTEM

INTERSECTION NO.

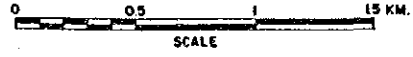
- ⑨ SIGNAL IN THE EXISTING ATC SYSTEM
- ⑤① EXISTING ISOLATED SIGNAL
- ②⑤ PLANNED SIGNAL TO BE INSTALLED
- △P1 PEDESTRIAN CROSSING SIGNAL

TRAFFIC SIGNAL OUTSIDE OF STAGE I ATC SYSTEM

INTERSECTION NO.

- 61

**TRAFFIC SIGNAL LOCATIONS**



↔ REVERSIBLE LANE

SYMBOLS FOR SIGNAL ASPECTS, ETC.


SYMBOL	ITEM	SYMBOL	ITEM	SYMBOL	ITEM	SYMBOL	ITEM	SYMBOL	ITEM	SYMBOL	ITEM
									HAND HOLE (C) (EXISTING)		CABLE CVV (EXISTING)
							PUSH BUTTON		HAND HOLE (C) (NEWLY)		CABLE CVV-2 <sup>□</sup> (NEWLY)
							TRAFFIC SIGNAL CONTROLLER		HAND HOLE (D) (NEWLY)		CABLE CVV-SS2 <sup>□</sup> (NEWLY)
							ULTRASONIC TYPE DETECTOR		TERMINAL (12P OR 20P)		
							LOOP COIL TYPE DETECTOR		NEWLY SIGNAL POLE AND HEADS		
							SIGNAL POLE (EXISTING)		EXISTING SIGNAL POLE AND HEADS		
							SIGNAL POLE (NEWLY)		EXISTING SIGNAL POLE AND HEADS TO BE REMOVED		

## LIST OF INTERSECTIONS

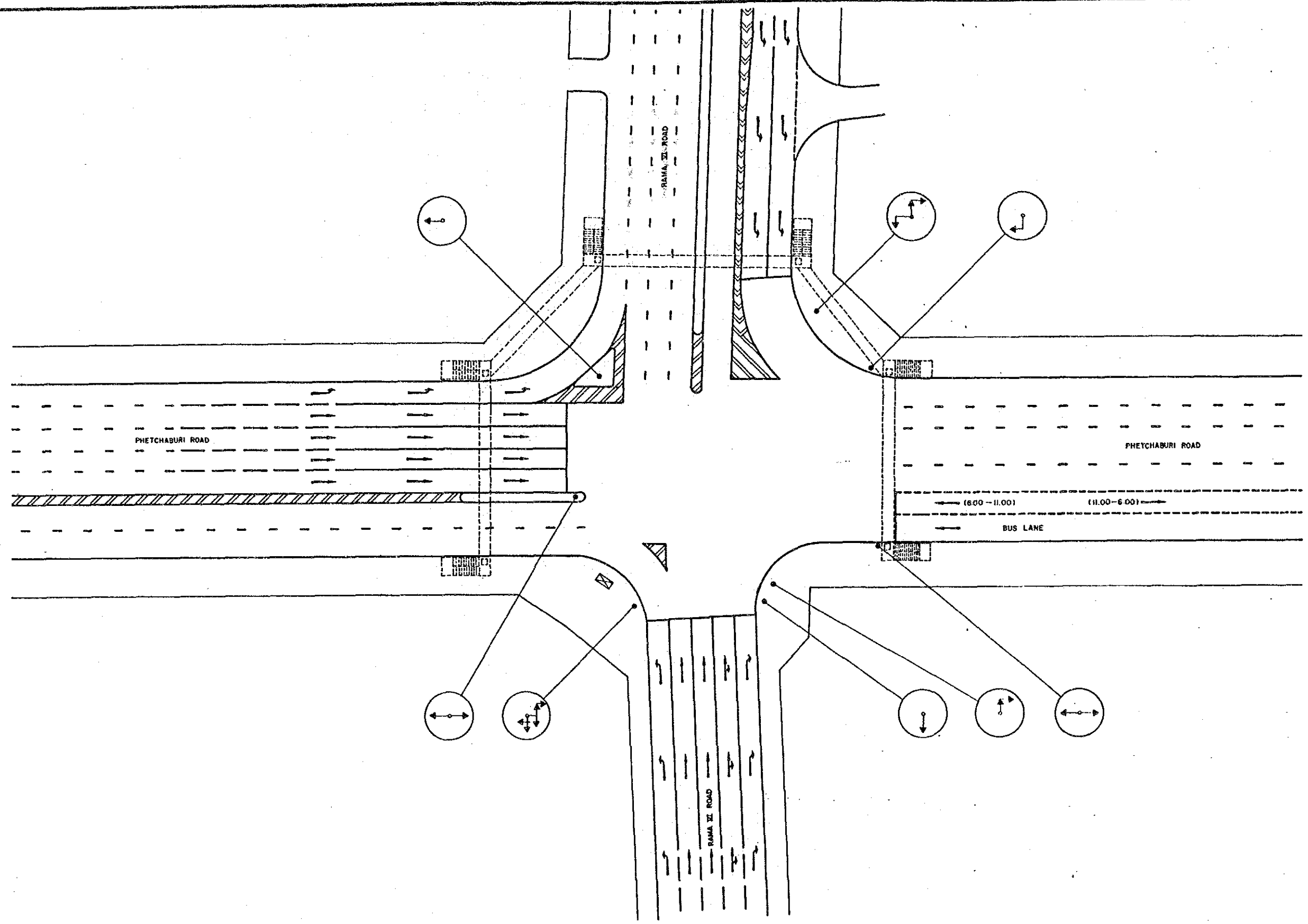
No.	Intersection No.	Drawing No.	Intersection Name
1.	1	5001	RAMA VI-PHETCHABURI
2.	2	5002	KRUNG KASEM-BAMRUNG MUANG
3.	3	5003	RATCHADAMRI-RAMA I-PHLOEN CHIT
4.	4	5004	CHAROEN KRUNG-SI LOM
5.	8	5008	MAHA PHRUTTHARAM-RAMA IV-RONG MUANG
6.	9	5009	RATCHADAMNOEN KLANG-PHRA SUMEN-MAHA CHAI
7.	10	5010	LAN LUANG-RATCHADAMNOEN NOK-NAKHON SAWAN
8.	11	5011	RATCHADAMNOEN NOK-KRUNG KASEM
9.	12	5012	RATCHADAMNOEN NOK-WISUT KASAT
10.	13	5013	RATCHADAMNOEN KLANG-RATCHADAMNOEN NAI
11.	15	5015	RAMA V-SI AYUTTHAYA
12.	18	5018	PHAYA THAI-PHETCHABURI
13.	19	5019	RATCHAPRAROP-DIN DAENG-RATCHAWITHI
14.	20	5020	WITTHAYU-PHLOEN CHIT
15.	22	5022	RATCHAPRAROP-RATCHADAMRI-PHETCHABURI
16.	24	5024	PHAYA THAI-SOI CHULALONGKORN 12
17.	25	5025	PHAYA THAI-YOTHI-RANG NAM
18.	26	5026	NAKHON SAWAN-KRUNG KASEM-LUK LUANG
19.	29	5029	PHLAPPLA CHAI-LUANG-MAITRI CHIT
20.	30	5030	SUAPA-LUANG-YUKHOL 2
21.	32	5032	CHAKKAPHATDI PHONG-NAKHON SAWAN
22.	34	5034	NAKHON SAWAN-PHITSANULOK
23.	35	5035	SAWANKHALOK-SI AYUTTHAYA
24.	36	5036	MAHA CHAI-YAOWARAT-PHIRAPHONG
25.	37	5037	KRUNG KASEM-LAN LUANG-LUK LUANG
26.	39	5039	RAMA VI-RATCHAWITHI
27.	40	5040	SAWANKHALOK-PHETCHABURI-LAN LUANG-PHITSANULOK
28.	41	5041	HENRI DUNANT-RAMA I
29.	42	5042	PHLOEN CHIT-SOI LANG SUAN-SOI CHIT LOM
30.	43	5043	PHLOEN CHIT-DIN DAENG PORT EXPRESSWAY
31.	44	5044	WORACHAK-BAMRUNG MUANG
32.	46	5046	CHAROEN KRUNG-RAMA IV-MITTRAPHAN
33.	47	5047	YAOWARAT-MITTRAPHAN
34.	48	5048	CHAROEN KRUNG-LAMPHUN CHAI
35.	49	5049	RATCHAWONG-YAOWARAT
36.	50	5050	CHAKKRAWAT-YAOWARAT-WORACHAK
37.	51	5051	SI LOM-RATCHADAMRI-RAMA IV
38.	52	5052	SUAPA-CHAROEN KRUNG-RATCHAWONG
39.	53	5053	WORACHAK-CHAROEN KRUNG
40.	54	5054	SAWANKHALOK-RATCHAWITHI
41.	55	5055	TRI PHET-CHAROEN KRUNG-TI THONG
42.	56	5056	MAHA CHAI-CHAROEN KRUNG
43.	57	5057	CHAKKAPHATDI PHONG-LAN LUANG
44.	58	5058	SAMSEN-CHAKKAPHONG-PHRA SUMEN
45.	59	5059	SAMSEN-WISUT KASAT
46.	63	5063	HENRI DUNANT-RAMA IV-SURAWONG
47.	64	5064	PHAYA THAI-CHULALONGKORN UNIVERSITY ENTRANCE
48.	67	5067	BANTHAT THONG-PHETCHABURI
49.	70	5070	MAHA CHAI-BAMRUNG MUANG
50.	71	5071	SAMSEN-SI AYUTTHAYA


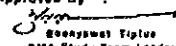
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52.	73	5073	BAMRUNG MUANG-BORIPHAT
53.	74	5074	PHITSANULOK-PRACHATHIPATAI
54.	75	5075	RATCHASIMA-SI AYUTTHAYA
55.	76	5076	RATCHADAMNOEN NOK-PHITSANULOK
56.	77	5077	PRACHATHIPATAI-WISUT KASAT
57.	78	5078	PRACHATHIPATAI-PHRA SUMEN
58.	79	5079	TANAO-RATCHADAMNOEN KLANG
59.	80	5080	WORACHAK-LUANG
60.	81	5081	ATSADANG-CHAROEN KRUNG
61.	82	5082	BANTHAT THONG-RAMA I
62.	83	5083	PRACHATHIPATAI-KRUNG KASEM
63.	84	5084	RATCHASIMA-UTHONG NOK
64.	87	5087	RAMA IV-BANTHAT THONG
65.	88	5088	PHAYA THAI-RAMA IV-SI PHRAYA
66.	89	5089	SI LOM-CONVENT
67.	93	5093	KRUNG KASEM-MAITRI CHIT-RAMA IV-TRAI MIT
68.	94	5094	TRI PHET-PHARURAT
69.	96	5096	PHAYA THAI-RAMA I
70.	98	5098	SI LOM-SURASAK-MAHESAK
71.	99	5099	WITTHAYU-PHETCHABURI-DIN DAENG PORT EXPRESSWAY
72.	101	5101	RAMA V-PHITSANULOK
73.	102	5102	RAMA VI-YOTHI
74.	103	5103	SATHON-WITTHAYU-RAMA IV
75.	104	5104	CHARU MUANG-CHAROEN MUANG
76.	105	5105	SUKHUMVIT-SOI SUKHUMVIT 4 (NANA TAI)
77.	106	5106	NIKHOM MAKKASAN-PHETCHABURI-SOI SUKHUMVIT 3 (NANA NUA)
78.	109	5109	RAMA VI-SI AYUTTHAYA
79.	110	5110	PHAYA THAI-SI AYUTTHAYA
80.	112	5112	MAHA CHAI-LUANG
81.	114	5114	KRUNG KASEM-MITTRAPHAN-LUANG
82.	115	5115	SUKHUMVIT-SOI SUKHUMVIT 21 (ASOK)-RATCHADAPHISEK
83.	118	5118	SUNTHON KOSA-RAMA IV
84.	123	5123	RATCHADAPHISEK-RAMA IV
85.	130	5130	UNAKAN-CHAROEN KRUNG
86.	131	5131	PLAENG NAM-CHAROEN KRUNG
87.	134	5134	NEW PHETCHABURI-ASOK DIN DAENG
88.	137	5137	DECHO-SI LOM
89.	139	5139	RATCHADAMNOEN NOK-SI AYUTTHAYA
90.	140	5140	BANTHAT THONG-CHAROEN MUANG
91.	141	5141	SI PHRAYA-CHAROEN KRUNG
92.	142	5142	CHUA PHLOENG-RAMA IV-DIN DAENG PORT EXPRESSWAY
93.	143	5143	RATCHAPRAROP-SI AYUTTHAYA
94.	144	5144	NA PHRA LAN-LAK MUANG-SANAM CHAI
95.	147	5147	BAMRUNG MUANG-TI THONG
96.	148	5148	BAMRUNG MUANG-UNAKAN
97.	160	5160	YUKHOL 2-BAMRUNG MUANG
98.	161	5161	PHLAPPLA CHAI-BAMRUNG MUANG
99.	162	5162	SOI SUKHUMVIT 21 (ASOK)-SOI WATTHANA 1
100.	183	5163	VIBHAVADI RANGSIT-DIN DAENG

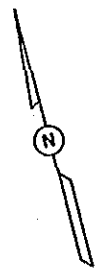
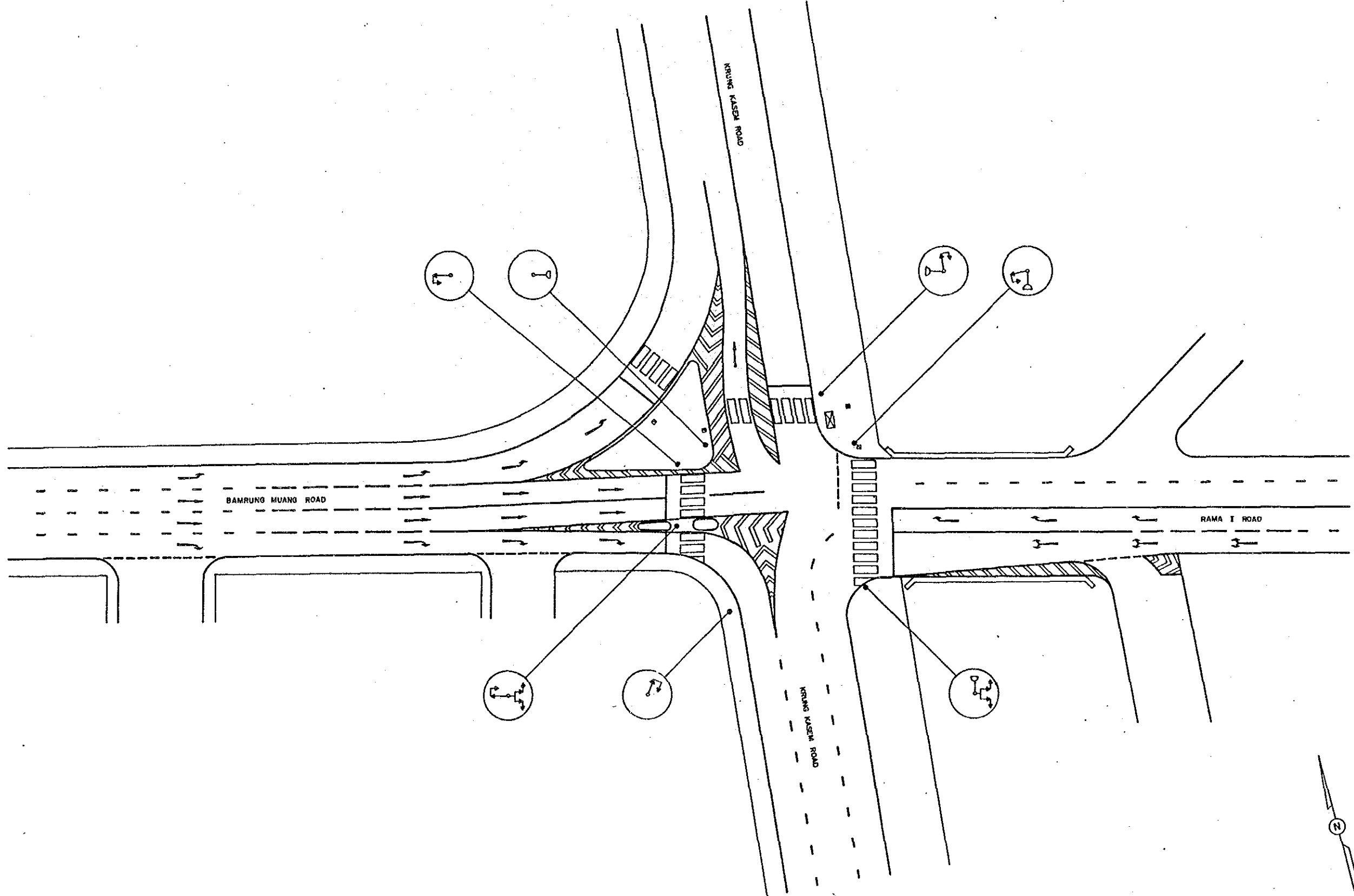
No.	Intersection No.	Drawing No.	Intersection Name
101.	164	5164	PRACHA SONGKHIRO-ASOK DIN DAENG
102.	175	5175	SI LOM-SOI PHIPHAT (BANGKOK BANK)
103.	178	5178	FUANG NAKHON-CHAROEN KRUNG
104.	177	5177	TANAO-BAMRUNG MUANG-FUANG NAKHON
105.	184	5184	RAMA I-RAMA VI-CHARU MUANG
106.	185	5185	RAMA IV-CHARU MUANG-MAHA NAKHON
107.	188	5188	SURAWONG-DECHO
108.	189	5189	ATSADANG-BAMRUNG MUANG
109.	191	5191	ATSADANG-PHRA PHITHAK
110.	194	5194	RATCHADAPHISEK-ASOK DIN DAENG-RAMA IX
111.	196	5196	SARASIN-RATCHADAMRI
112.	197	5197	SARASIN-SOI LANG SUAN
113.	198	5198	SARASIN-WITTHAYU-SOI RUAM RUDI
114.	199	5199	RATCHADAPHISEK-SUNTHON KOSA-RAMA III-NA RANONG
115.	214	5214	SATHON-CHAROEN KRUNG
116.	215	5215	SATHON NUA-SURASAK
117.	217	5217	SATHON NUA-PAN
118.	219	5219	SATHON-SOI SUKSA WITTHAYA (BANG RAK HOSPITAL)
119.	221	5221	SATHON NUA-PHIPHAT
120.	222	5222	SATHON NUA-CONVENT
121.	224	5224	SATHON (U-TURN NEAR SOI ATTHAKAN PRASIT)
122.	227	5227	DEMOCRACY MONUMENT 1
123.	228	5228	DEMOCRACY MONUMENT 2
124.	232	5232	BANTHAT THONG-SOI CHULALONGKORN 16
125.	236	5236	PHETCHABURI-SOI CHIT LOM
126.	237	5237	SUKHUMVIT-SOI SUKHUMVIT 11
127.	238	5238	SUKHUMVIT-SOI SUKHUMVIT 19
128.	245	5245	CHARU MUANG-CHARAT MUANG
129.	254	5254	VICTORY MONUMENT-PHAYON YOTHIN
130.	255	5255	VICTORY MONUMENT-RATCHAWITHI (EAST)
131.	256	5256	VICTORY MONUMENT-PHAYA THAI
132.	257	5257	RATCHAWITHI (WEST)-VICTORY MONUMENT
133.	268	5268	SURAWONG-SAP
134.	904	5904	NIKHOM MAKKASAN-SOI PHETCHABURI 31
135.	905	5905	SI PHRAYA-SAP
136.	706	5706	HIGHWAY-PHAYON YOTHIN
137.	707	5707	HIGHWAY-ASOK-DIN DAENG
138.	708	5708	HIGHWAY-RAMA IX
139.	801	5801	U-TURN AT ASOK DIN DAENG (WEST)
140.	802	5802	U-TURN AT ASOK DIN DAENG (EAST)
141.	803	5803	U-TURN AT PHAYA THAI (ASIA HOTEL)
142.	804	5804	U-TURN AT SUKHUMVIT (NEAR SOI SUKHUMVIT 18)
143.	805	5805	U-TURN AT RAMA IV
144.	P 1	5094	TRIPHET (TRAFFIC POLICE DIVISION)
145.	P 2	5094	TRIPHET (NEAR SOI WATLEAP)
146.	P 3	5052	CHARDENKRUNG (SOI CHAROENKRUNG 21)



Note:  Newly signalled intersection  
 "Highway" at Int.No.706,707,708 means highway yet to be constructed  
 INT. No. P1, P2, P3 are Pedestrian crossing signals.  
 INT. No. 35, 40, 43, 54, 99, 142, 143 are Railroad Pre-emption Control signals.  
 INT. No. 227, 228 are controlled by one local controller.  
 INT. No. 254, 255, 256, 257 are controlled by one local controller.

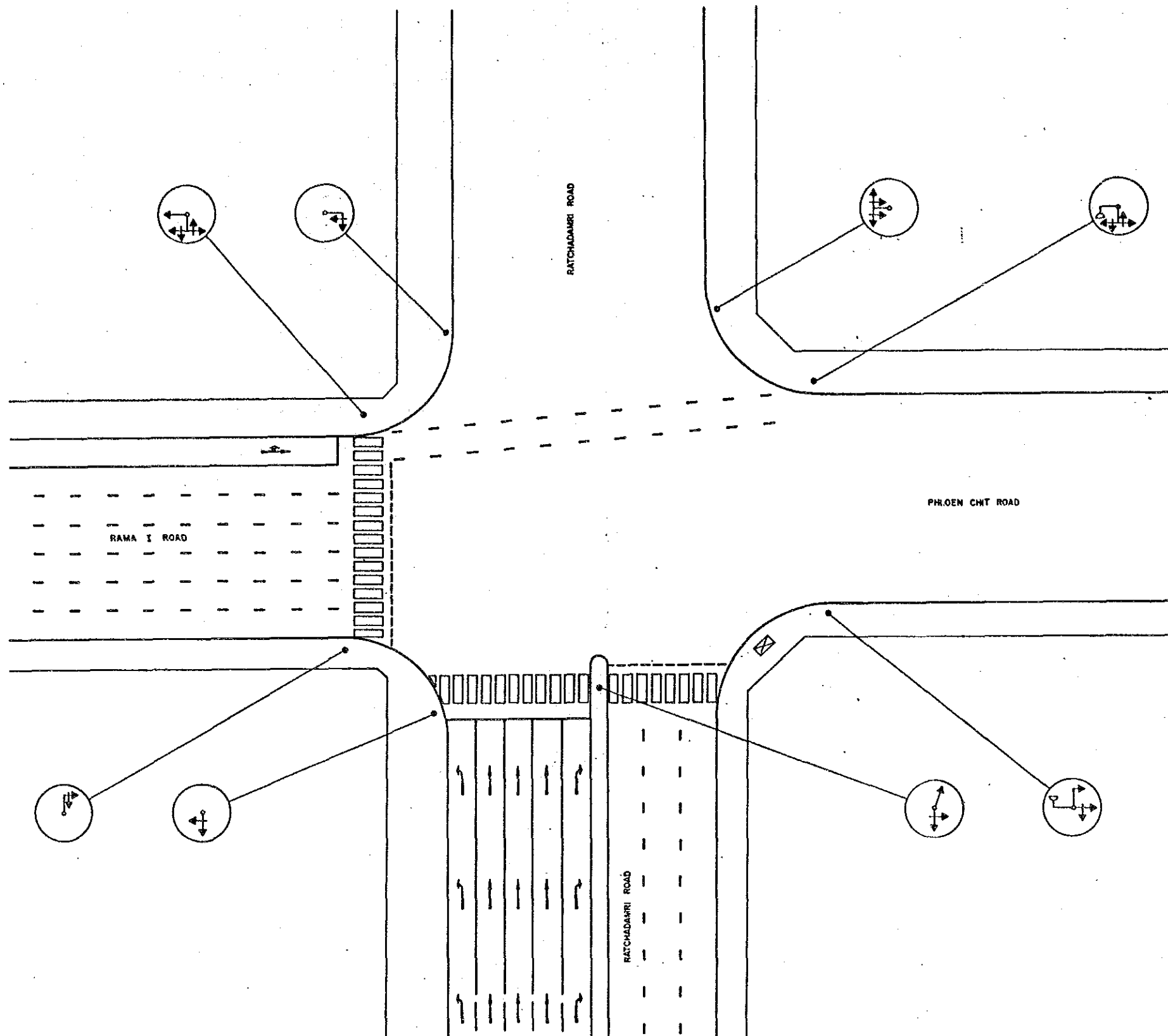



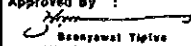


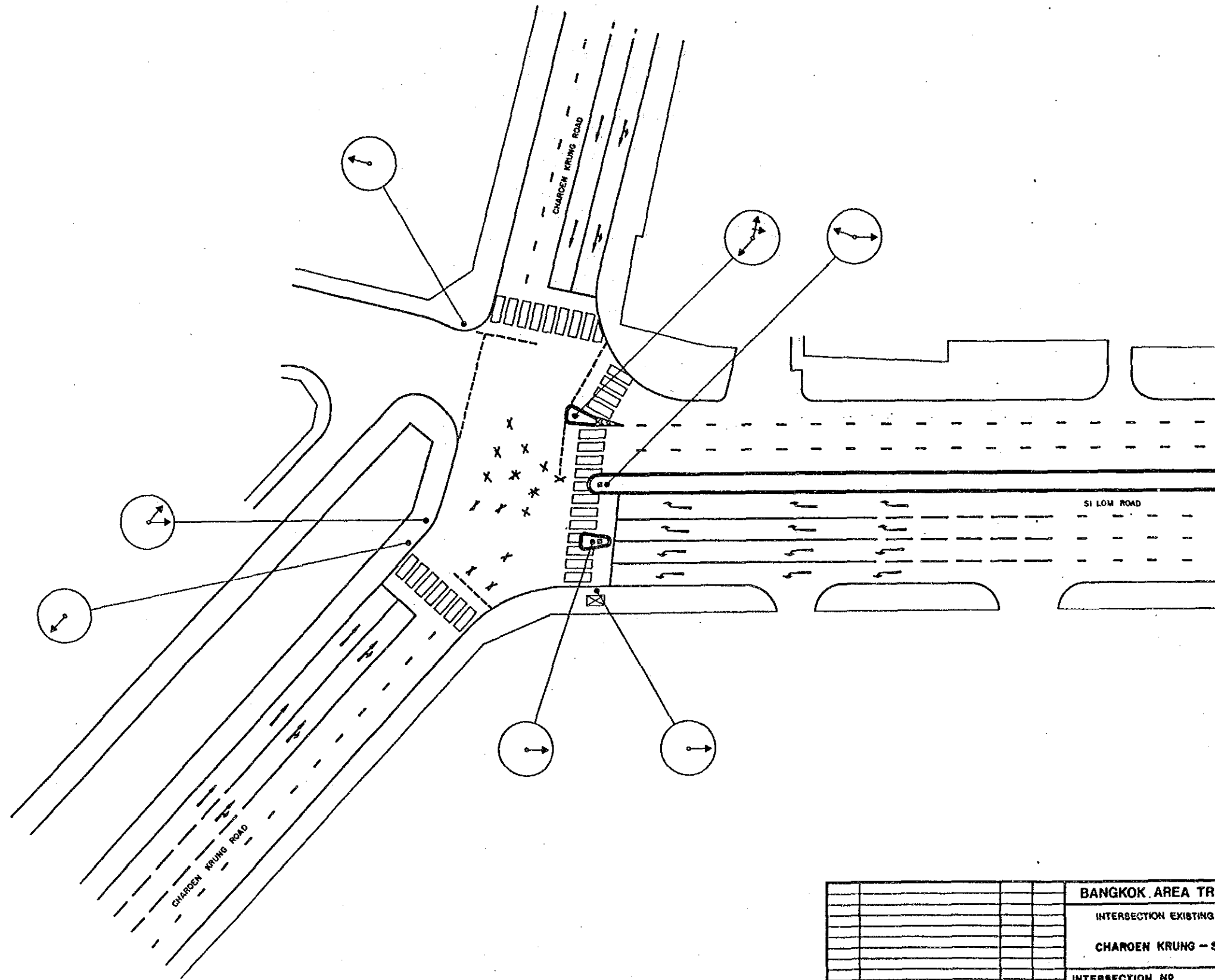
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :  Jiro Kodera JICA Study Team Leader	Approved By :  Boonyawat Tiptua BMA Study Team Leader
RAMA VI - PHETCHABURI			
INTERSECTION NO		I	
Code	Rev	Date	Initial
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER 90
			Drawing No. 5001 Total 1 / 143



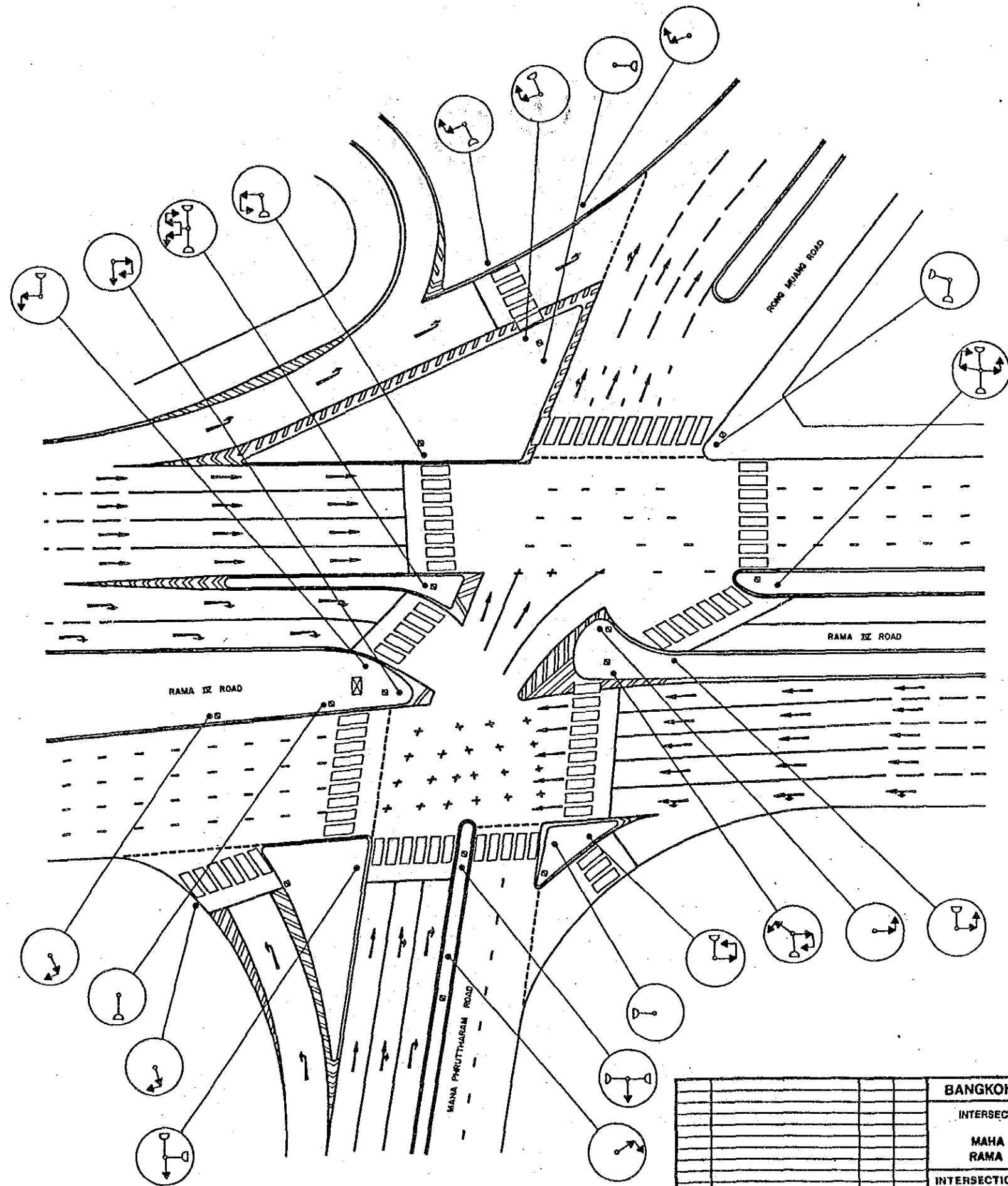
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				INTERSECTION EXISTING LAYOUT		Submitted By :  Jiro Kodera JICA Study Team Leader	
				KRUNG KASEM-BAMRUNG MUANG		Approved By :  Boonyawat Tiptus BMA Study Team Leader	
				INTERSECTION NO 2			
Code	Survey	Date	Initial	JICA	BMA	Scale	1 / 250
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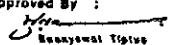


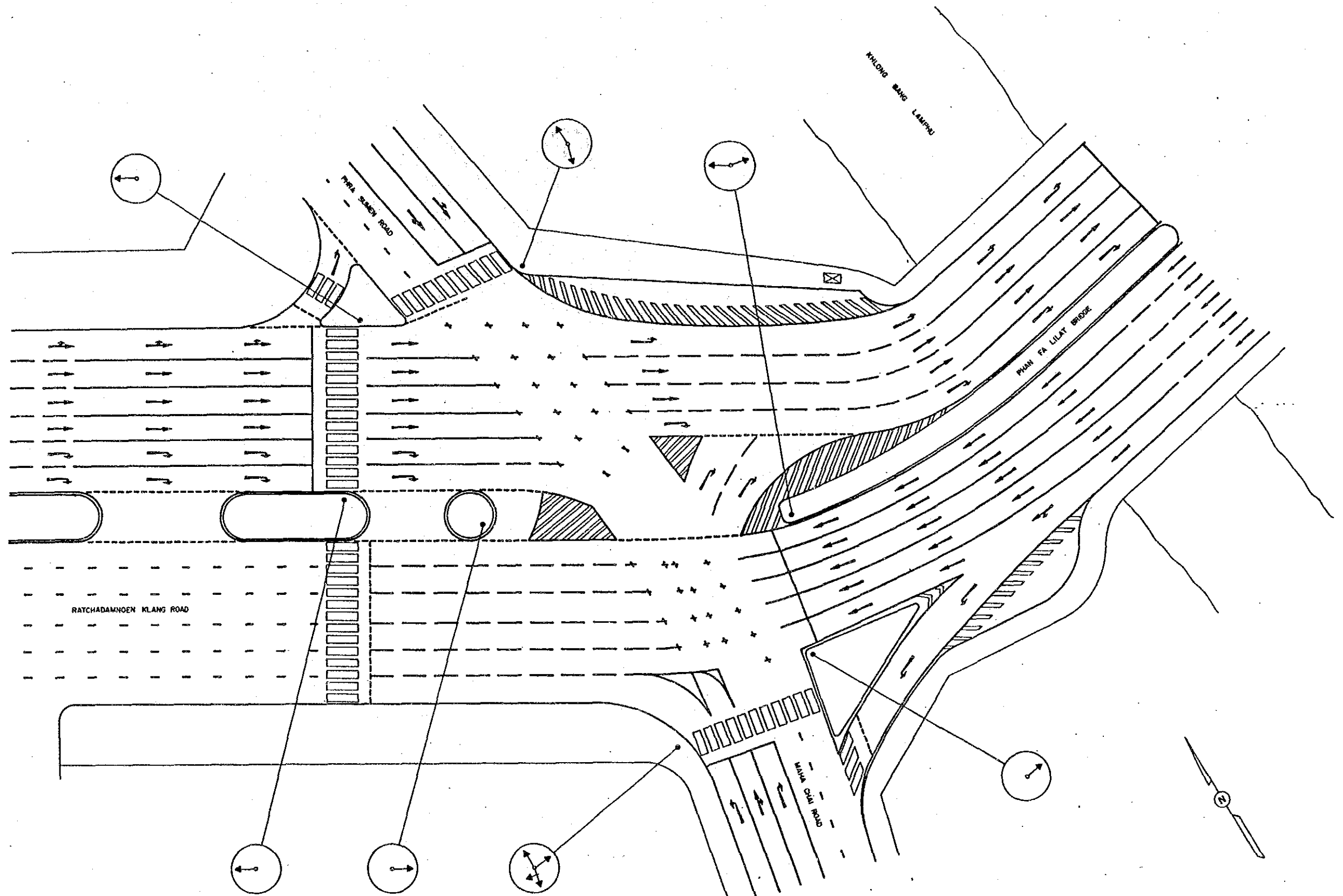
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				INTERSECTION EXISTING LAYOUT		Submitted By : 	
				RATCHADAMRI-RAMA 3-PHLOEN CHIT		Approved By : 	
				INTERSECTION N <sup>o</sup> 3		JICA Study Team Leader	
						BMA Study Team Leader	
Code	Survey	Date	Initial	JICA	BMA	Scale	Drawing NR
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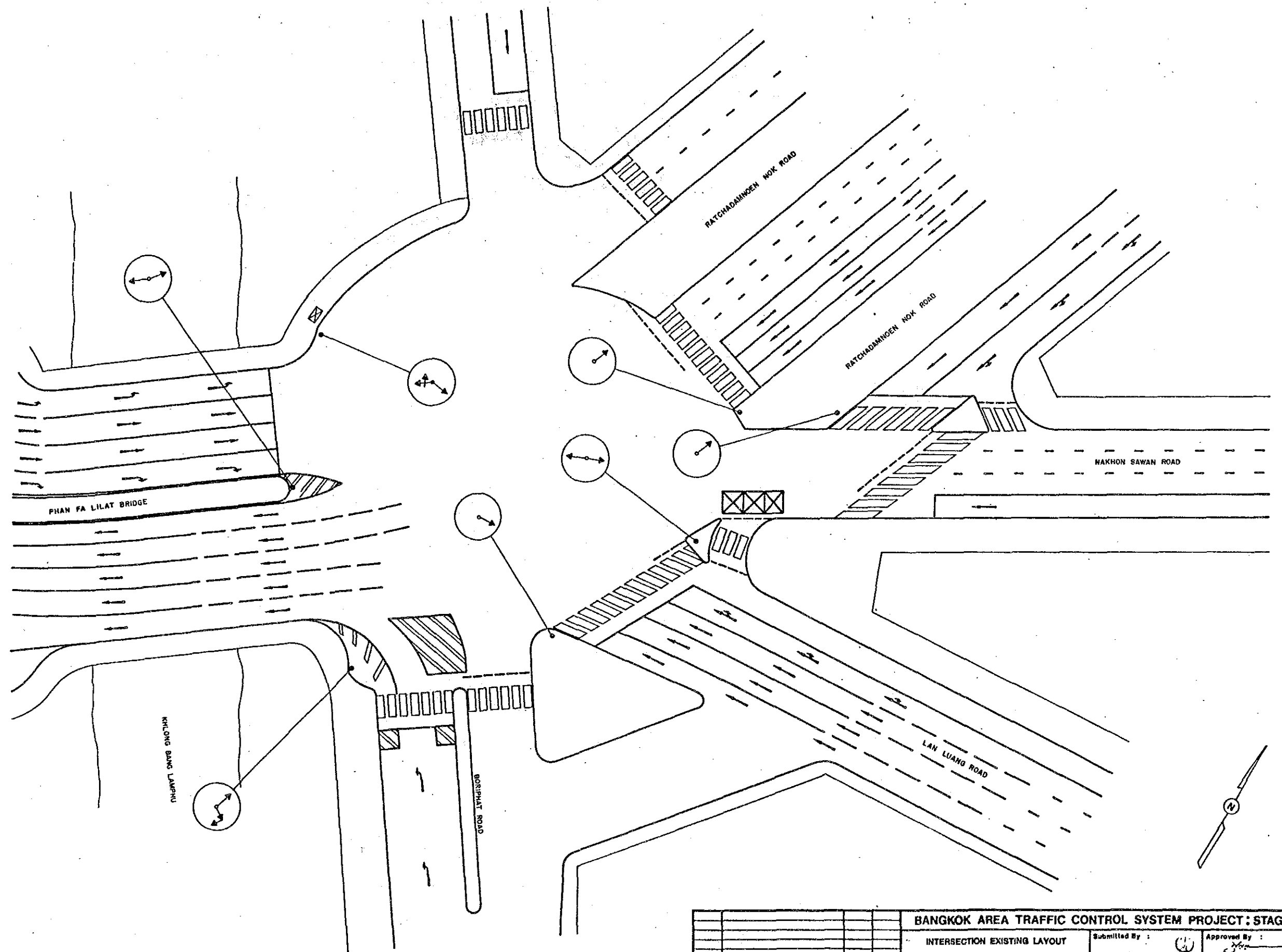
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By : Jiro Kodera JICA Study Team Leader	Approved By : Boonyawat Tiptus BMA Study Team Leader
CHAOEN KRUNG - SI LOM			
INTERSECTION NO		4	
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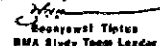


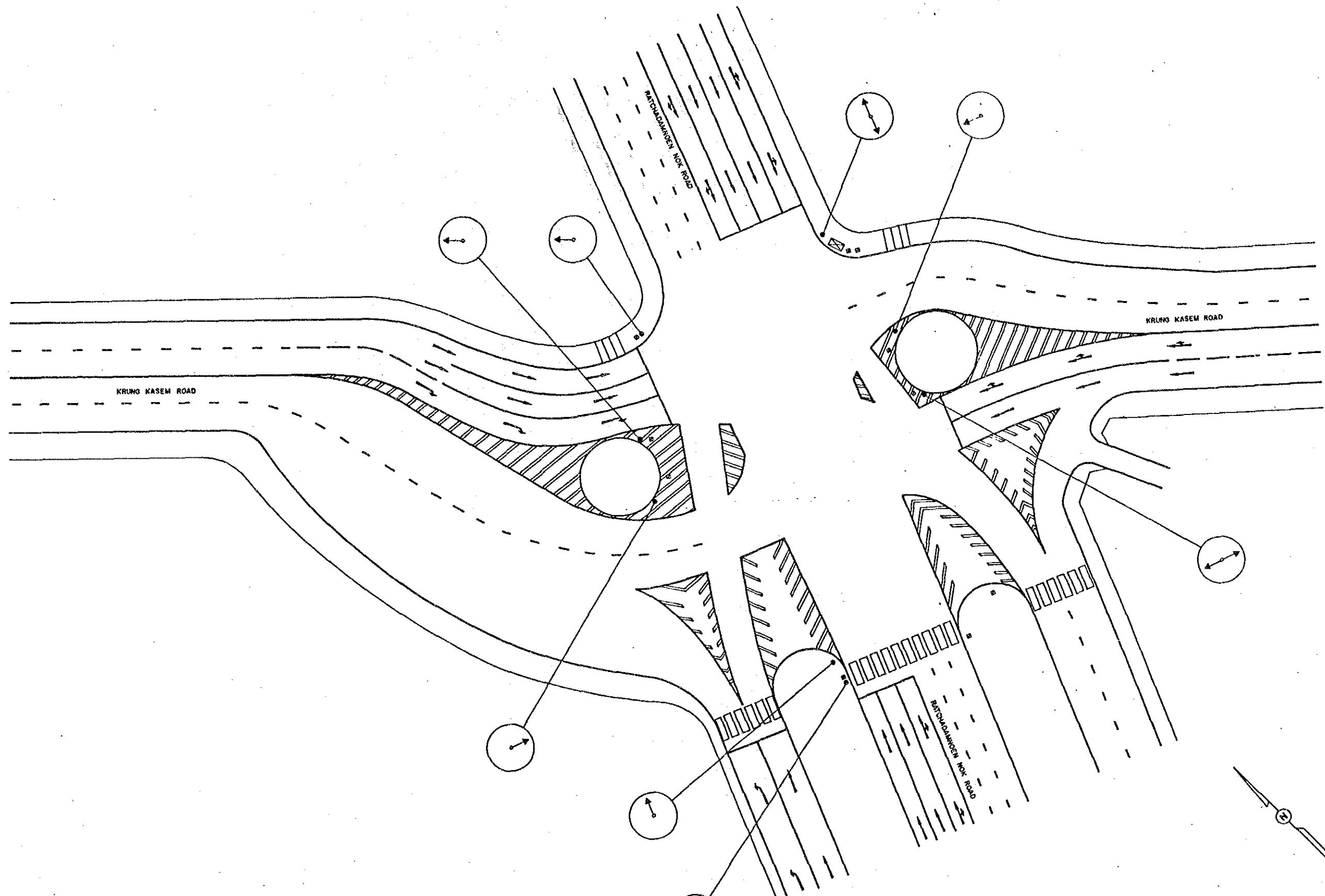
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				MAHA PHRUTTHARAM - RAMA IV - RONG MUANG		Approved By :  BMA Study Team Leader	
				INTERSECTION NO 8			
Code	Survey	Date	Initial	JICA	BMA	Scale	1 / 250
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						Drawing No 5008	
						Total 5 / 143	



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT!		Submitted By : Jiro Kodera JICA Study Team Leader	Approved By : Benyawan Nitiss BMA Study Team Leader
RATCHADAMNOEN KLANG - PHRA SUMEN - MAMA CHAI			
INTERSECTION NR 9			
Code	Survey	Date	Initial
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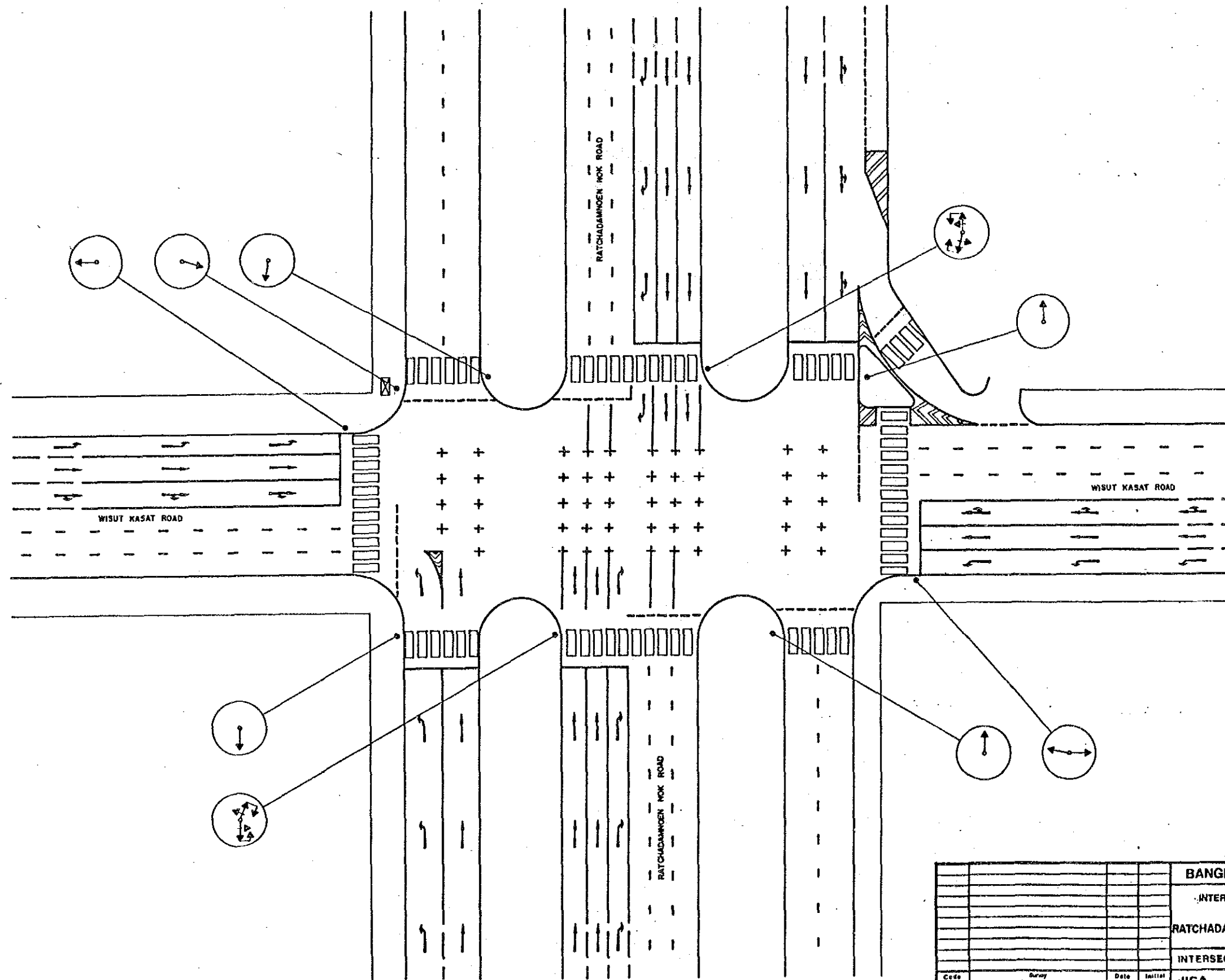


				<b>BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I</b>			
				<b>INTERSECTION EXISTING LAYOUT</b>		Submitted By : 	
				<b>RATCHADAMNOEN KLANG- PHRA SUMEN-MAHA CHAI</b>		Approved By : 	
				<b>INTERSECTION NO</b>		Scale <b>1 / 250</b>	
				<b>10</b>		Drawing No <b>5010</b>	
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		Survey		BMA Bangkok Metropolitan Administration		Total <b>7 / 143</b>	
		Date					
		Initial					

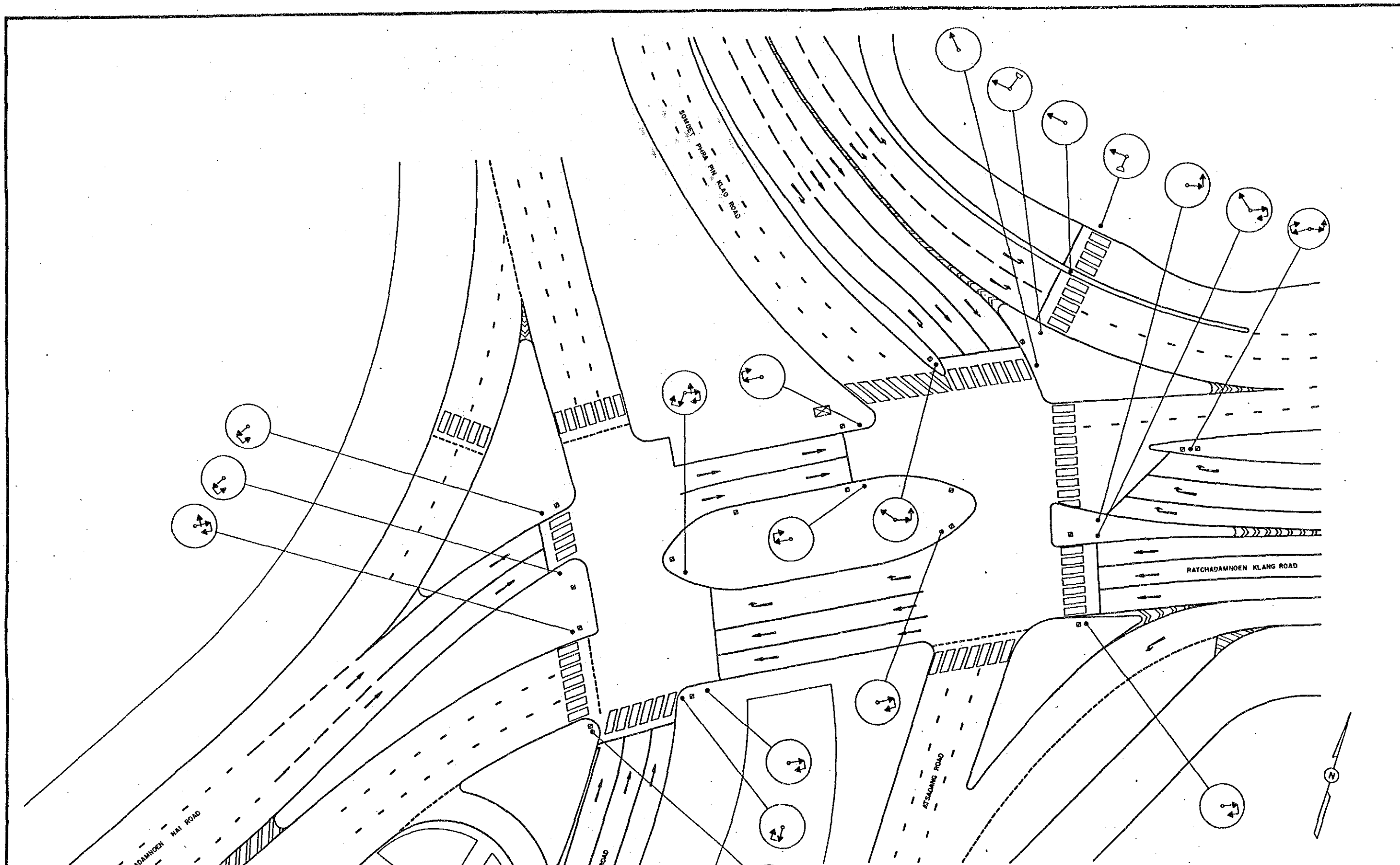


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I							
INTERSECTION EXISTING LAYOUT				Submitted By :	Approved By :		
RATCHADAMNOEN NOK-KRUNG KASEM				Juro Kadera JICA Study Team Leader	Sasayama Tetsuo BMA Study Team Leader		
INTERSECTION NR				II			
Code	Survey	Date	Sheet	JICA	BMA	Scale	1 / 250
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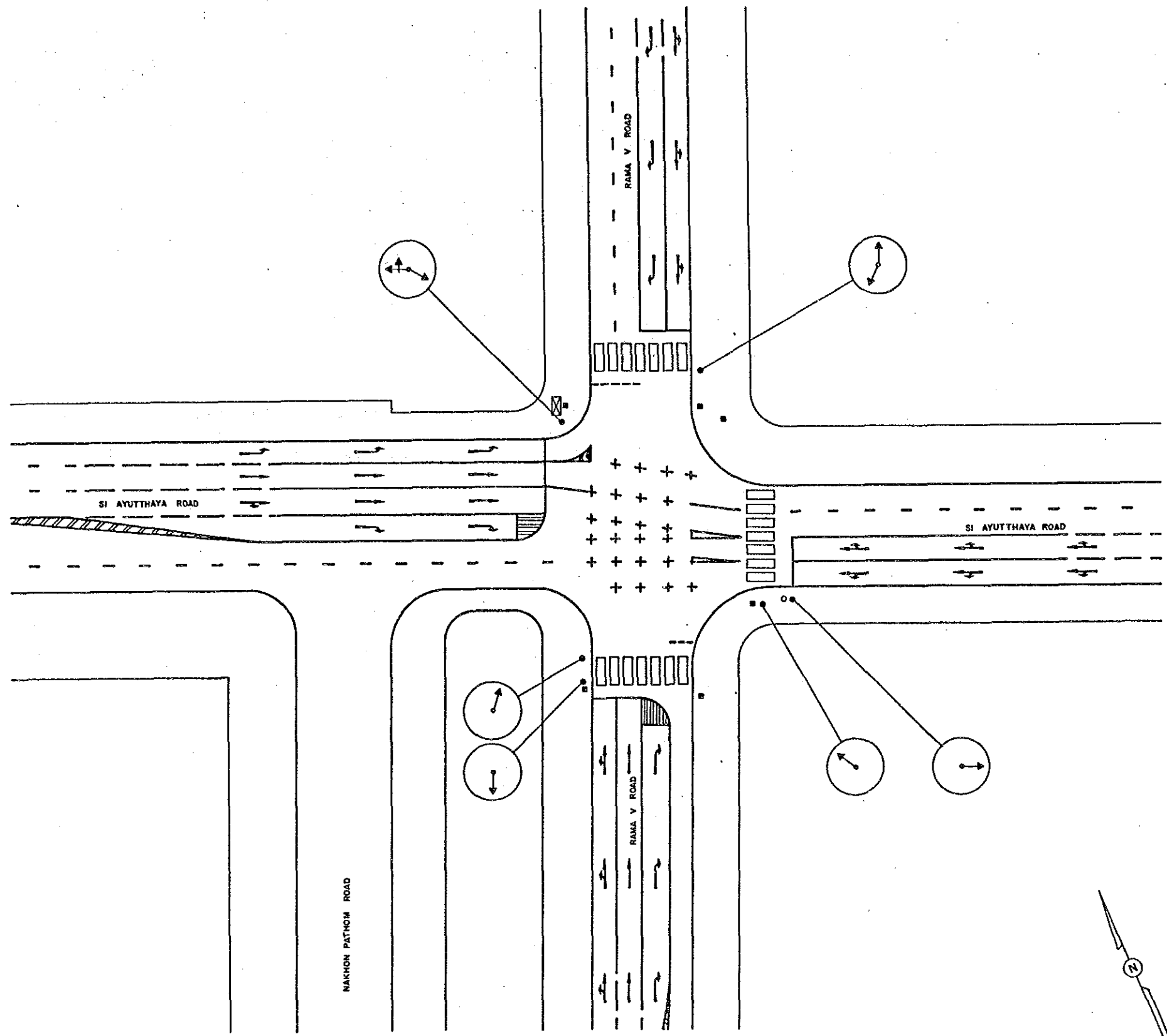




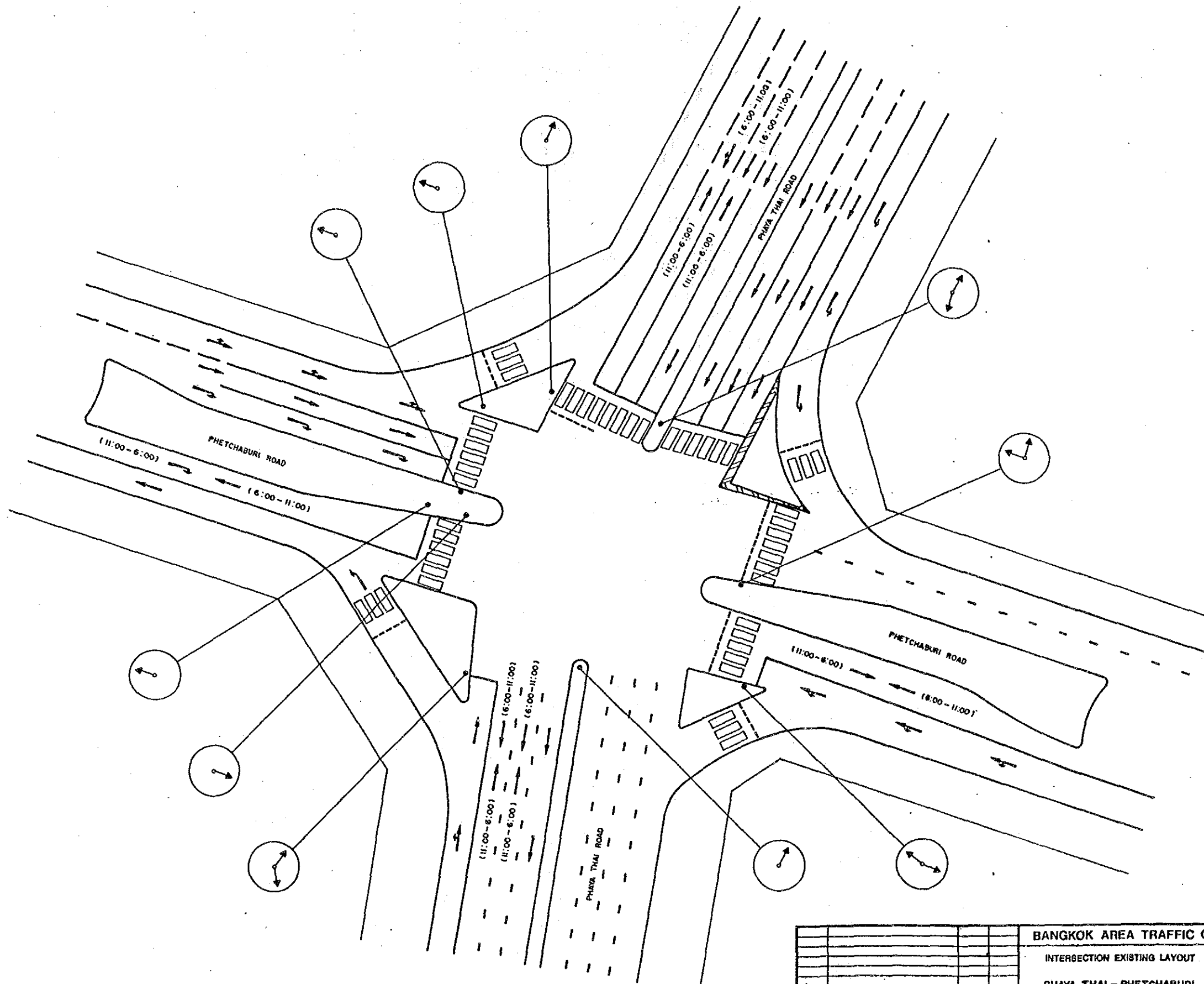
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
RATCHADAMNOEN NOK - WISUT KASAT		Jiro Kodera JICA Study Team Leader	Wassawat Tipta BMA Study Team Leader
INTERSECTION NO		12	
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JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250	Drawing No 5012
		Date SEPTEMBER '90	Total 9 / 143



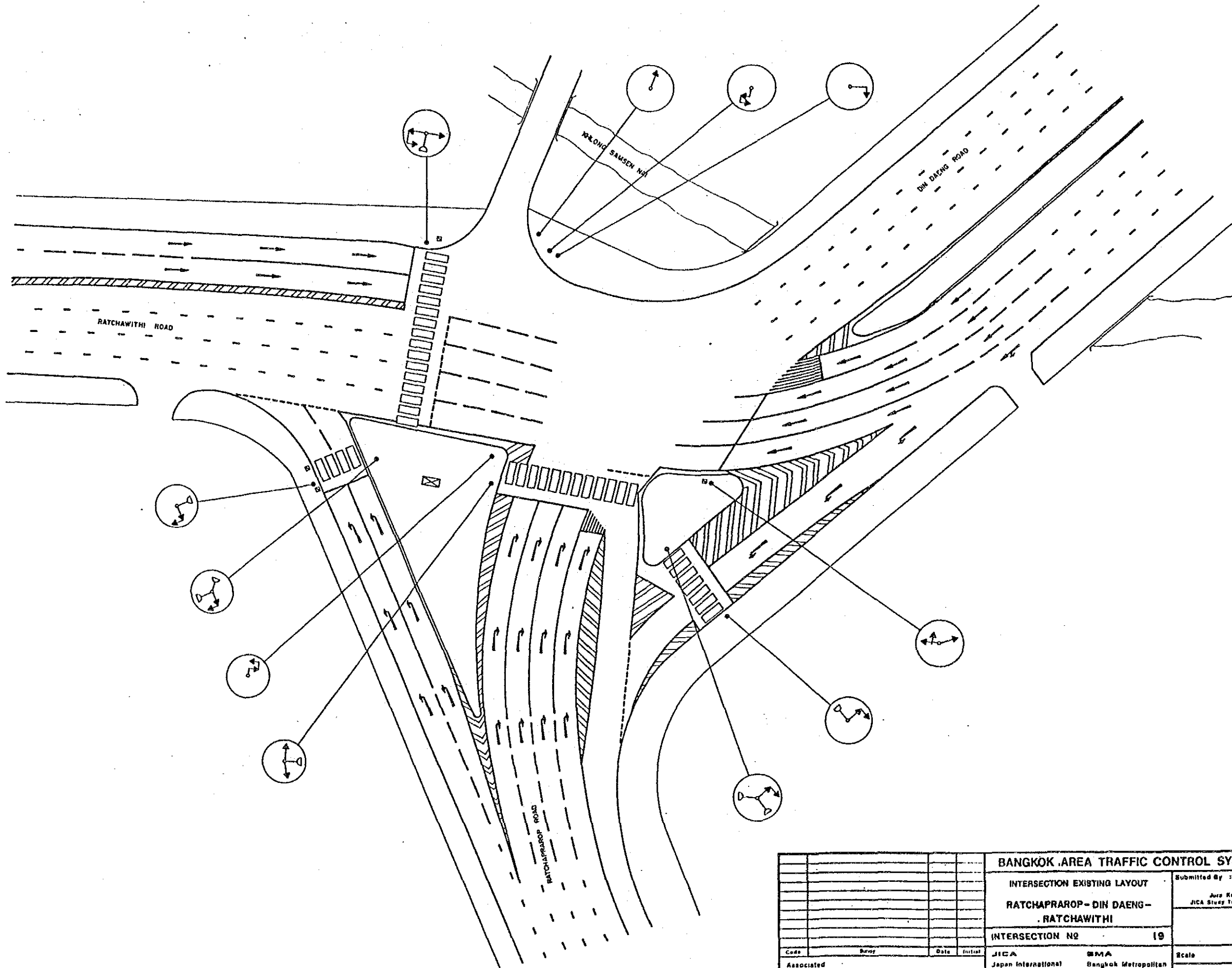
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By : Jun Kudara JICA Study Team Leader	Approved By : <i>[Signature]</i> Boonywet Tiptua BMA Study Team Leader
RATCHADAMNOEN KLANG - RATCHADAMNOEN NAI			
INTERSECTION NO 13			
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		Scale 1 / 250	Drawing NR. 6013
		Date SEPTEMBER '80	Total 10 / 143



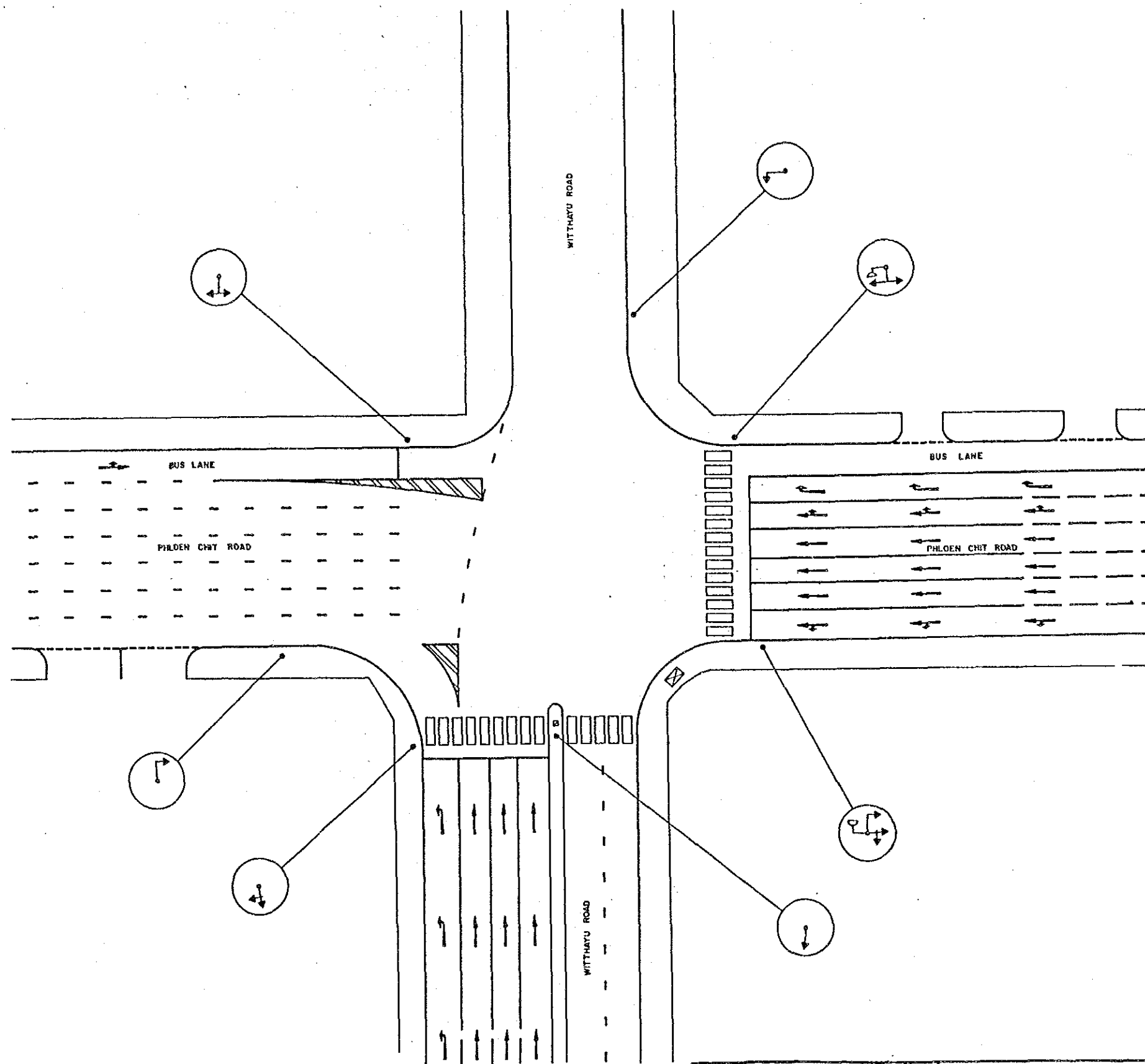
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I									
INTERSECTION EXISTING LAYOUT RAMA V - SI AYUTTHAYA					Submitted By : Jira Kodera JICA Study Team Leader		Approved By : <i>[Signature]</i> Boonkarn Tipta BMA Study Team Leader		
					INTERSECTION NO 15				
Code		Survey		Date		Initial		JICA Japan International Cooperation Agency	
Associated Plan No. :						BMA Bangkok Metropolitan Administration		Date SEPTEMBER '90 Total 11 / 143	



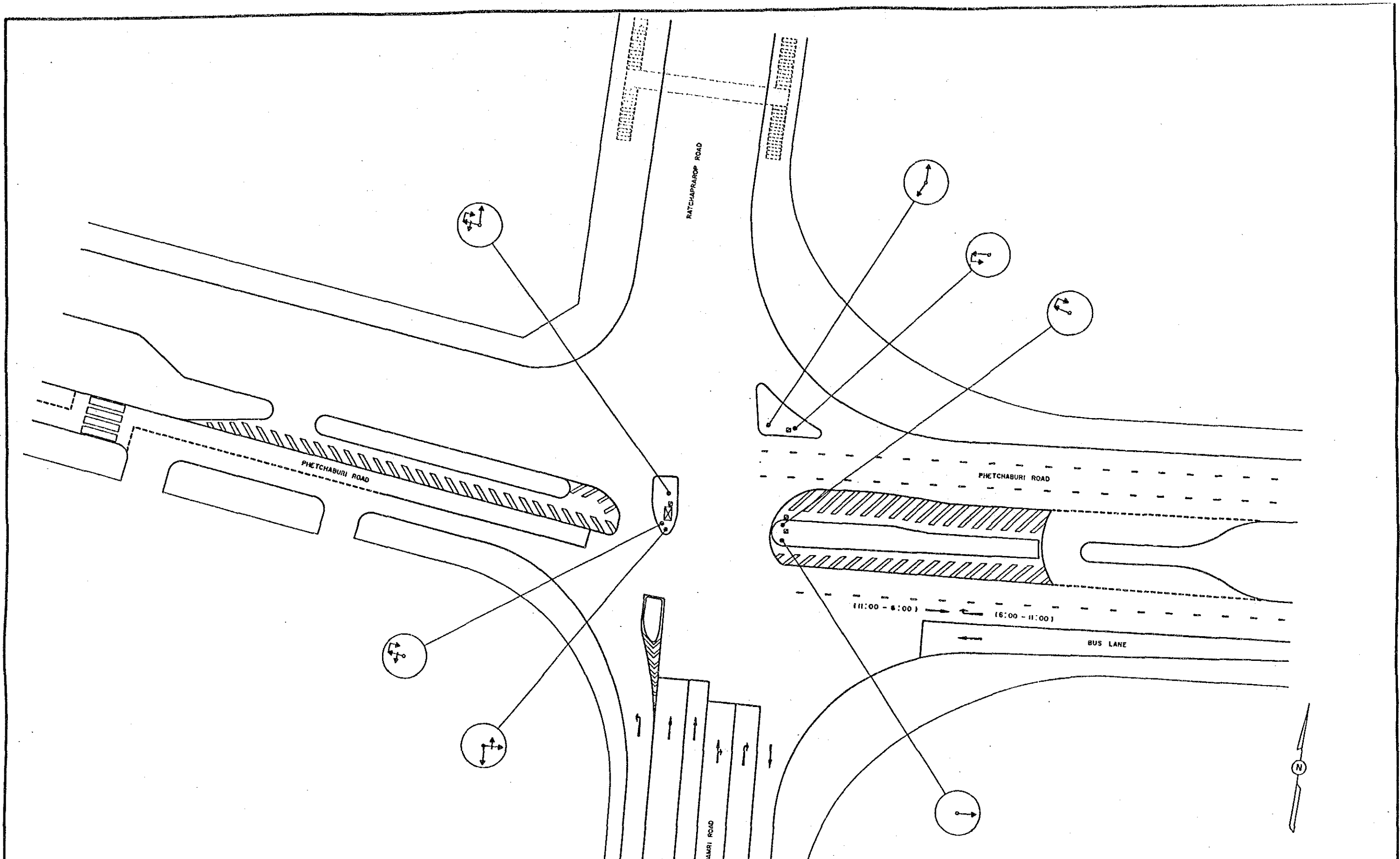
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By : Jure Kadara JICA Study Team Leader	Approved By : Boonwatt Yipua BMA Study Team Leader
PHAYA THAI - PHETCHABURI			
INTERSECTION NO 18			
Code	Body	Date	Initial
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER '90
			Drawing No 5018 Total 12 / 143



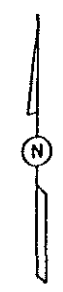
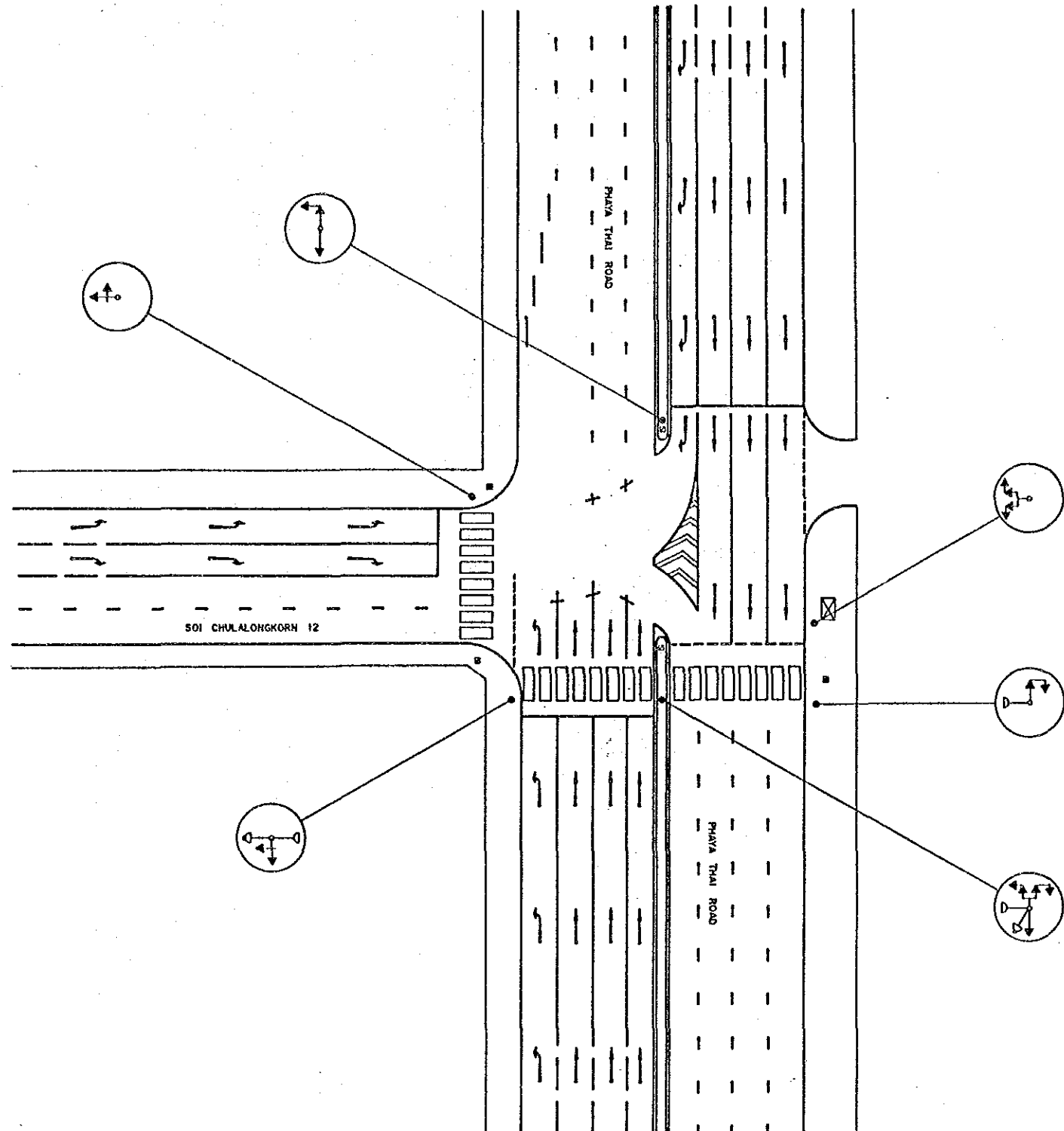
				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By :	
				RATCHAPRAROP-DIN DAENG- RATCHAWITHI		 JICA Study Team Leader	
				INTERSECTION NO		Approved By :	
				19		 BMA Study Team Leader	
Code	Drawn	Date	Initial	JICA	BMA	Scale	Drawing No
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	1/250	5019
						Date	Total
						SEPTEMBER '90	13 / 143



				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
				WITTHAYU - PHLOEN CHIT		Jiro Kodera JICA Study Team Leader	<i>[Signature]</i> Somsawat Tiplua BMA Study Team Leader
				INTERSECTION NO 20			
Case	Survey	Date	Initial	JICA	BMA	Scale	Drawing No
Associated Plan No. 1				Japan International Cooperation Agency	Bangkok Metropolitan Administration	1 / 250	5020
						Date	Total
						SEPTEMBER '96	14 / 143

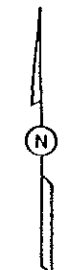
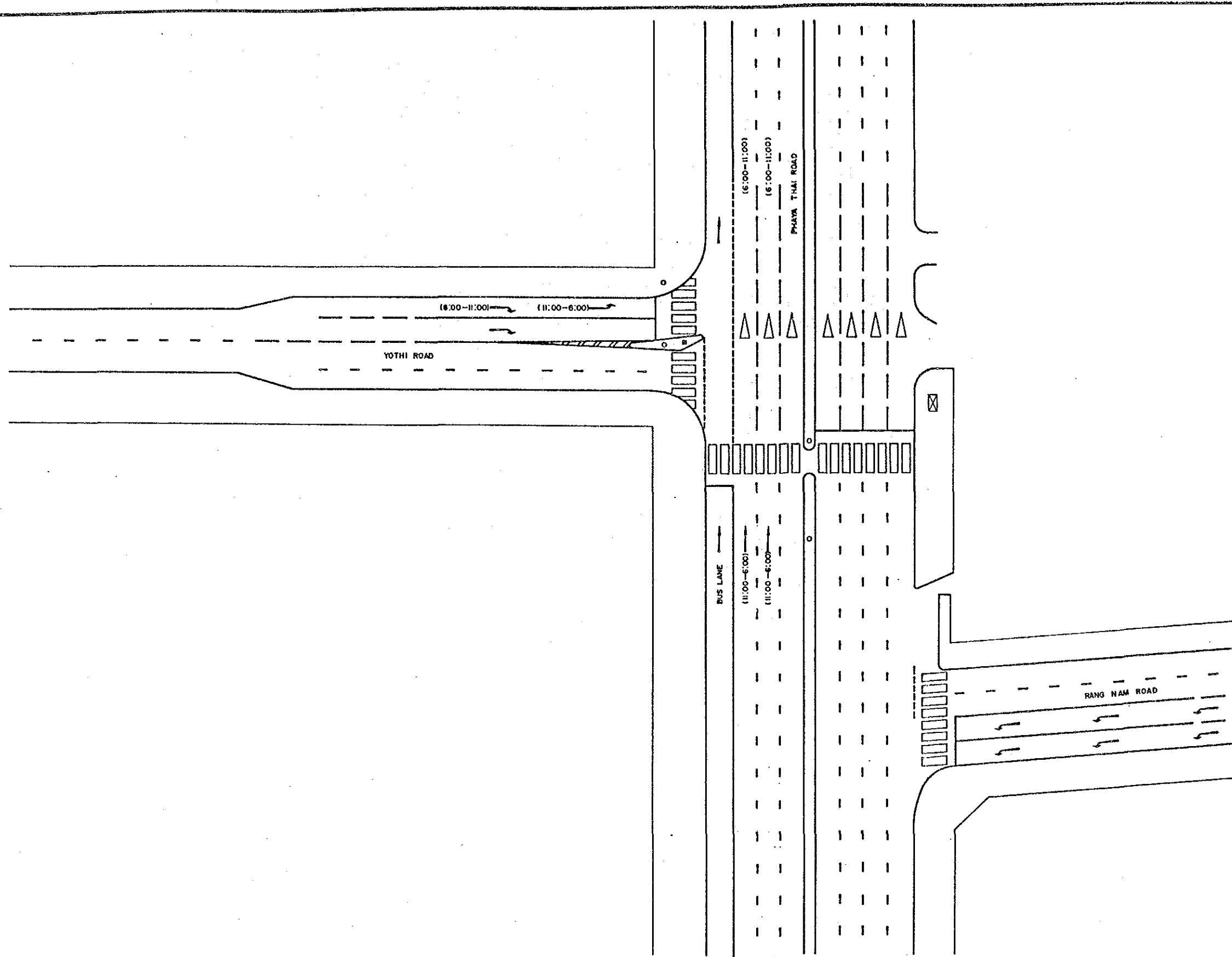


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By Jira Rodana JICA Study Team Leader	Approved By Boonwatt Tiptan BMA Study Team Leader
RATCHAPRAROP - RATCHADAMRI - PHETCHABURI			
INTERSECTION NO 22			
Code	Survey	Date	Initial
Associated Plan No. 1.		JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration
		Scale 1/250	Drawing No 5022
		Date SEPTEMBER '90	Total 15/143

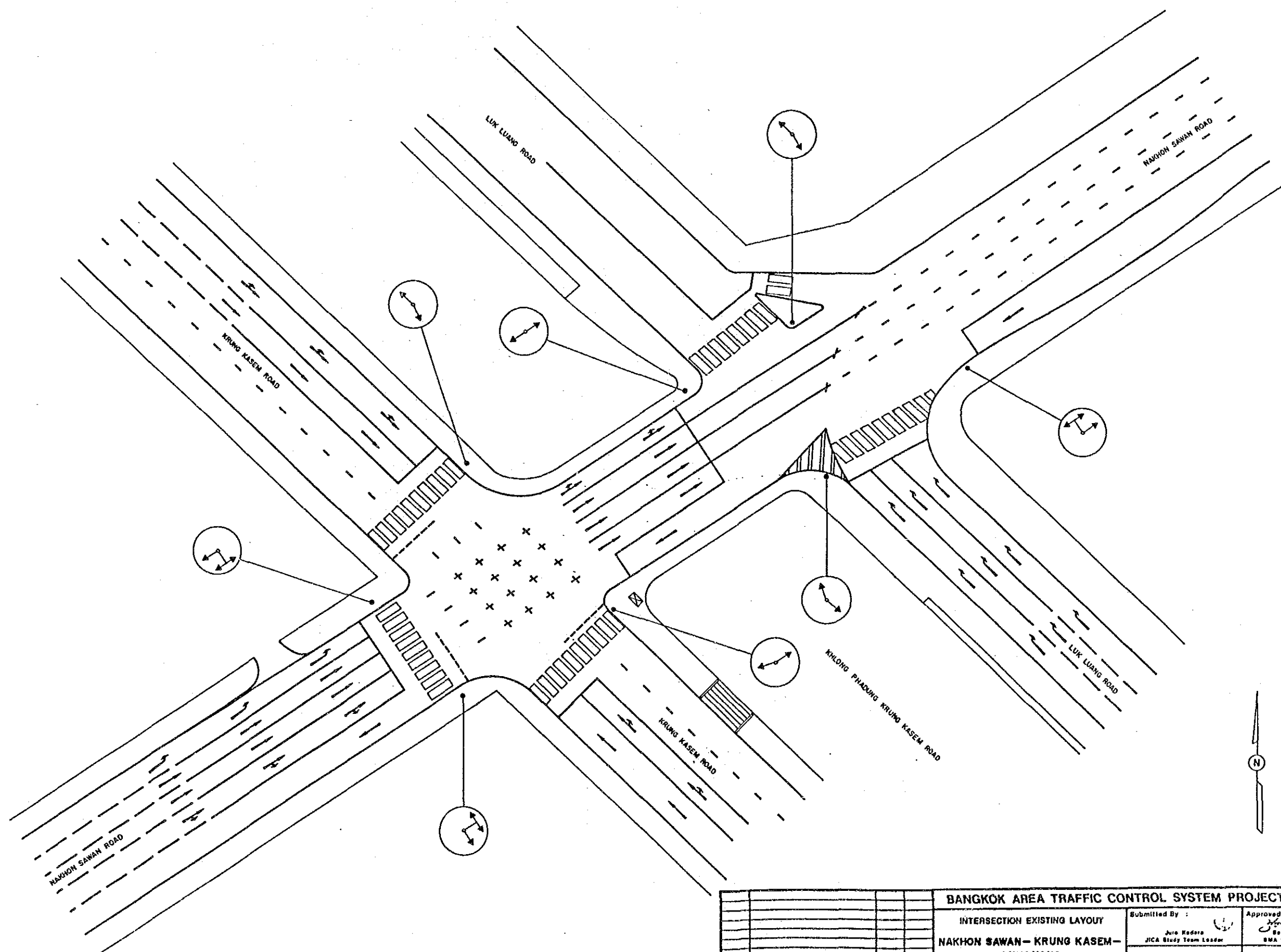


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By : Jiro Kodera JICA Study Team Leader	Approved By : <i>Jiro Kodera</i> Sensouji Kitao BMA Study Team Leader
PHAYA THAI - SOI CHULALONGKORN 12			
INTERSECTION NO 24			
Code	Survey	Date	Initial
Associated Plan No. 1	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER '90 Drawing NR 5024 Total 16 / 143

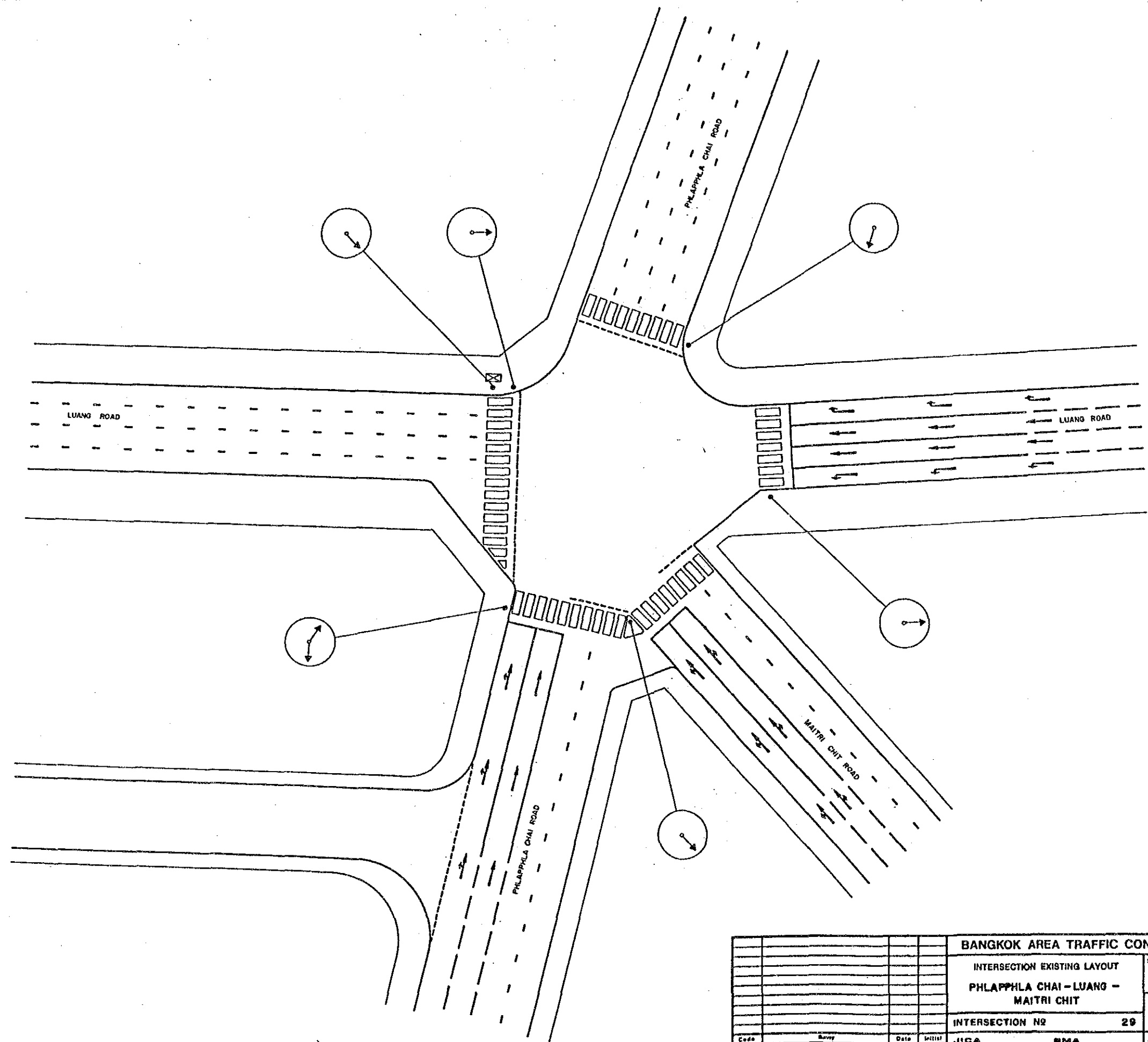




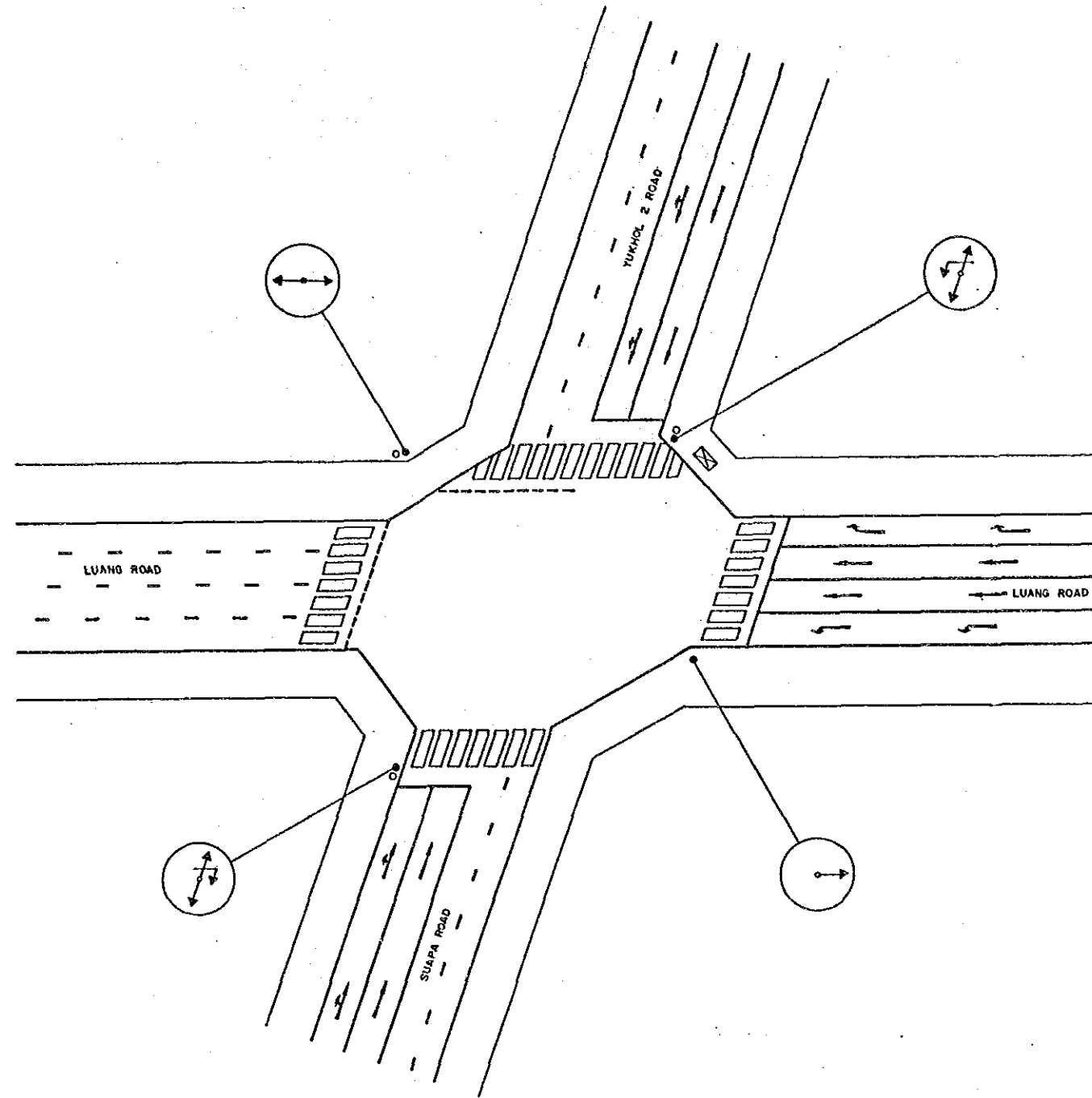
				<b>BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I</b>			
				INTERSECTION EXISTING LAYOUT		Submitted By : <i>Jun Kadota</i>	
				PHAYA THAI-YOTHI-RANG NAM		Approved By : <i>Keenawat Tiptas</i>	
						JICA Study Team Leader	
						BMA Study Team Leader	
				INTERSECTION NO 25			
Code	Drawn	Date	Initial	JICA	BMA	Scale	1 / 250
Associated Plan No :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	Date	SEPTEMBER '90
						Drawing NO 5028	
						Total 17 / 143	



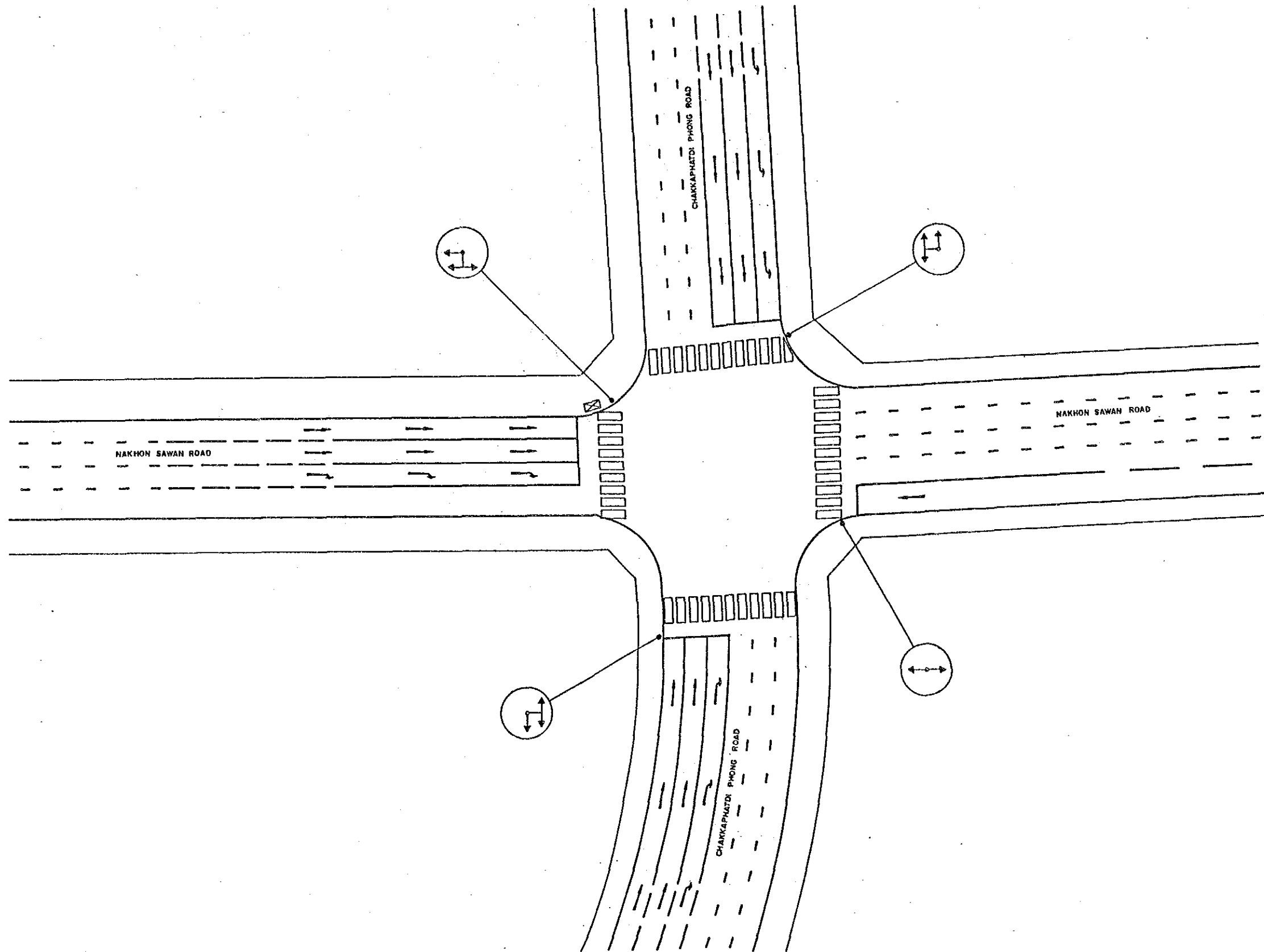
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
NAKHON SAWAN - KRUNG KASEM - LUK LUANG		Jiro Nakano JICA Study Team Leader	Seangsooi Tivisa BMA Study Team Leader
INTERSECTION NO 26			
Cof	Rev	Date	Initial
Associated Plan No. 1	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1/250 Date SEPTEMBER '90
		Drawing No 6026	Total 18 / 143



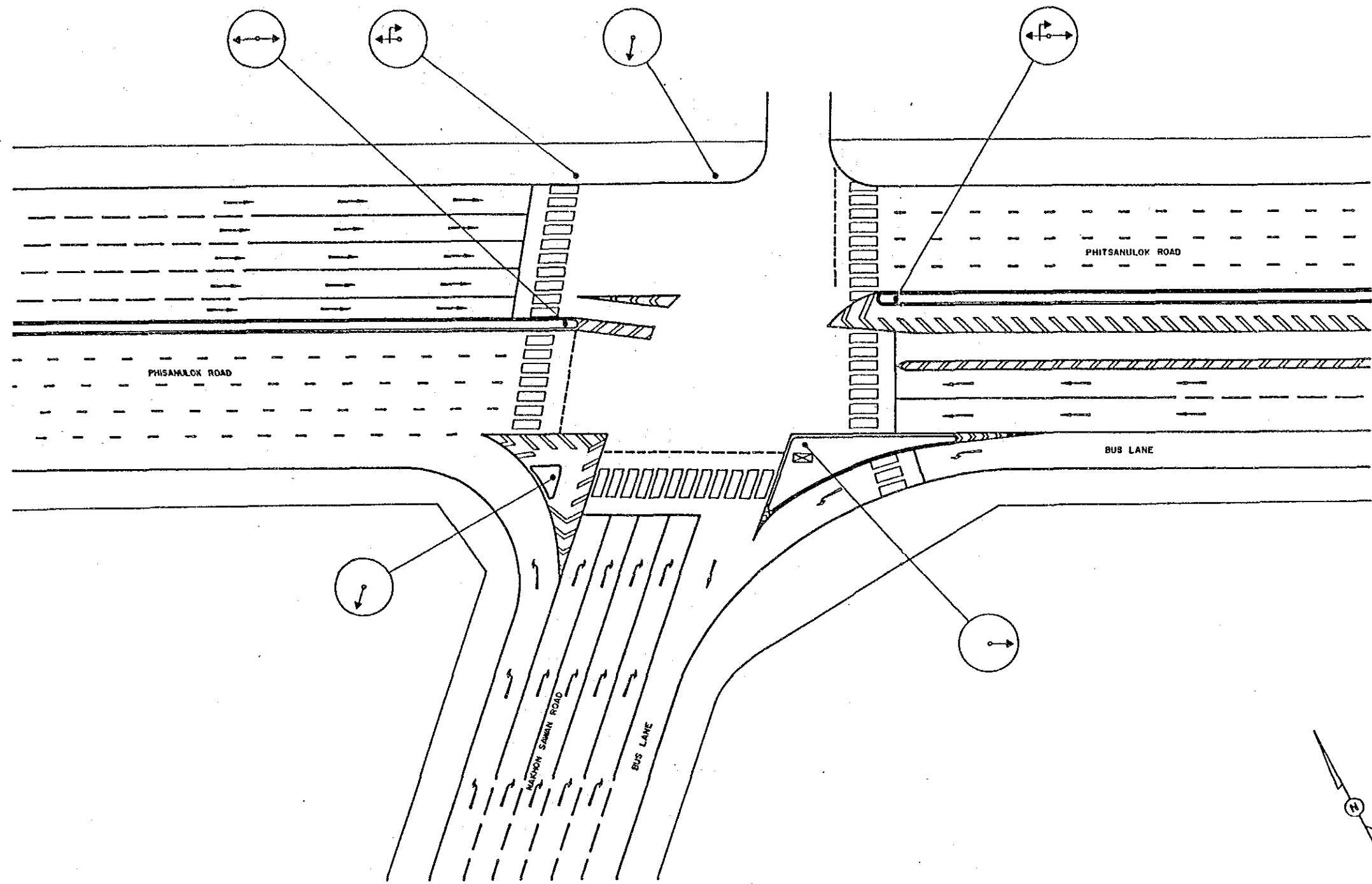
				<b>BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I</b>			
				<b>INTERSECTION EXISTING LAYOUT</b>		Submitted By :	Approved By :
				<b>PHLAPPLA CHAI - LUANG - MAITRI CHIT</b>		Jiro Kodera JICA Study Team Leader	 Boonawat Tiplas BMA Study Team Leader
				<b>INTERSECTION NO 29</b>			
Code	Rev	Date	Initial	JICA	BMA	Scale	Drawing No
Associated Plan No. 1				Japan International Cooperation Agency	Bangkok Metropolitan Administration	1 / 250	5029
						Date	Total
						SEPTEMBER '90	19 / 143



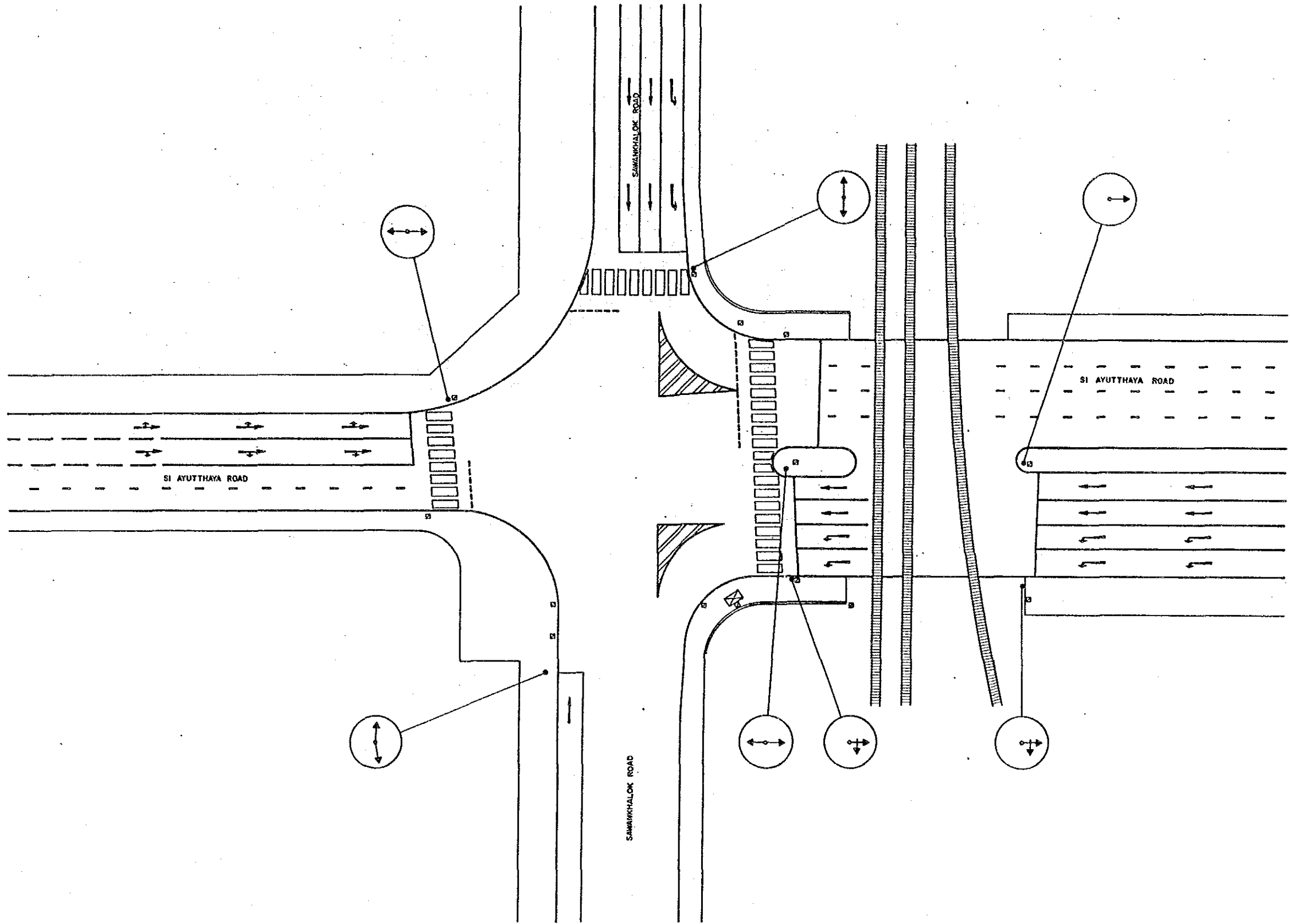
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I					
				Submitted By : Jiro Kodera JICA Study Team Leader	Approved By : Somsorn Tolasa BMA Study Team Leader
				INTERSECTION EXISTING LAYOUT, SUAPA-LUANG-YUKHOL 2	
				INTERSECTION NO	30
Code	Survey	Date	Initial	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration
Associated Plan No. 1				Scale	1/250
				Date	SEPTEMBER '90
				Drawing No	8030
				Total	20 / 143



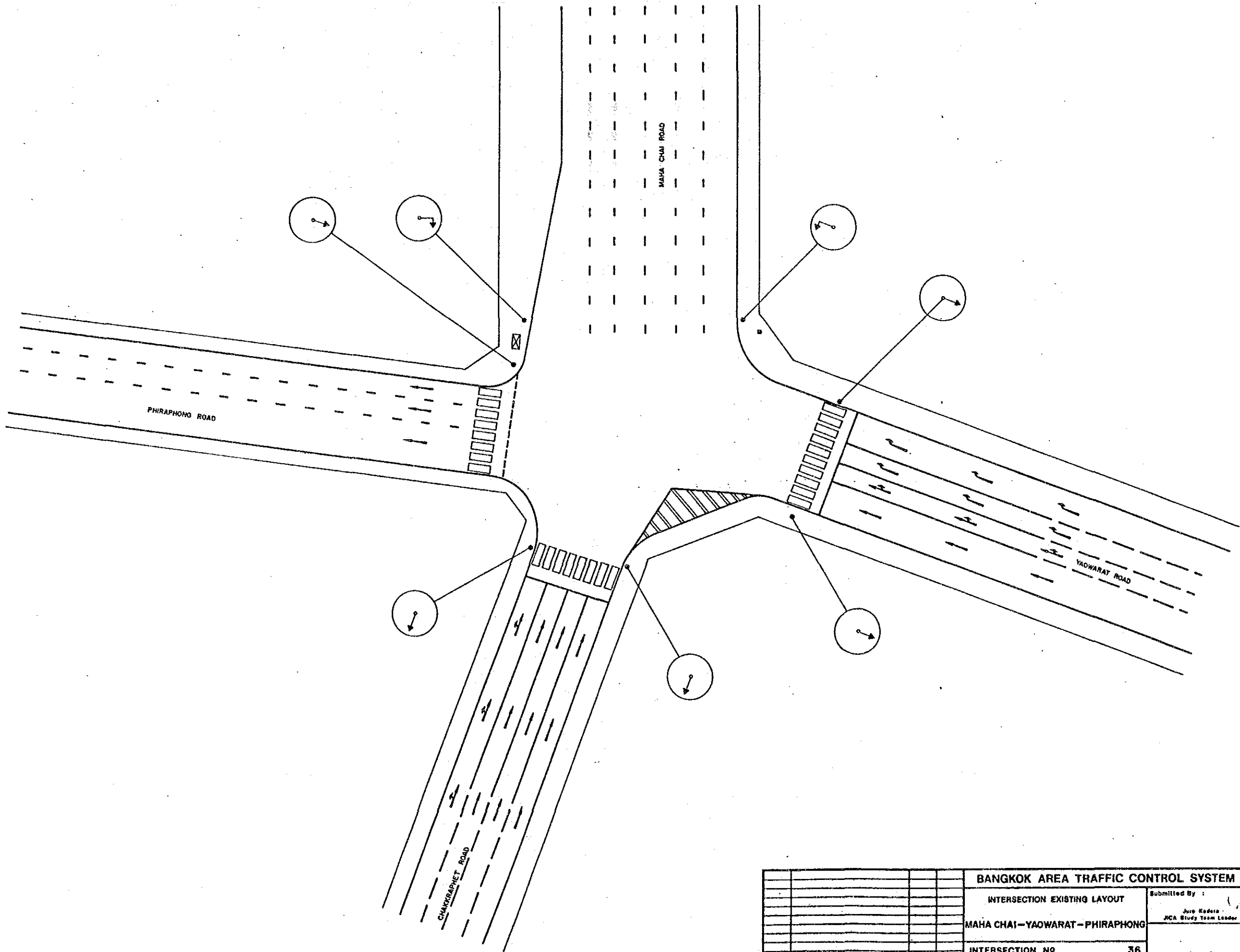
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
CHAKKAPHATDI PHONG - NAKHON SAWAN		Jiro Kodera JICA Study Team Leader	Dr. Anzawat Tiplua BMA Study Team Leader
INTERSECTION NO		32	
Code	Survey	Date	Initial
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale : 1 / 250. Date : SEPTEMBER '90
		Drawing No	5032
		Total	21 / 143



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
NAKHON SAWAN-PHITSANULOK		Jira Kadam NCA Study Team Leader	Boonwut Vitus BMA Study Team Leader
INTERSECTION NO 34			
Code	Survey	Date	Sheet
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER '90 Drawing No 5034 Total 22 / 143

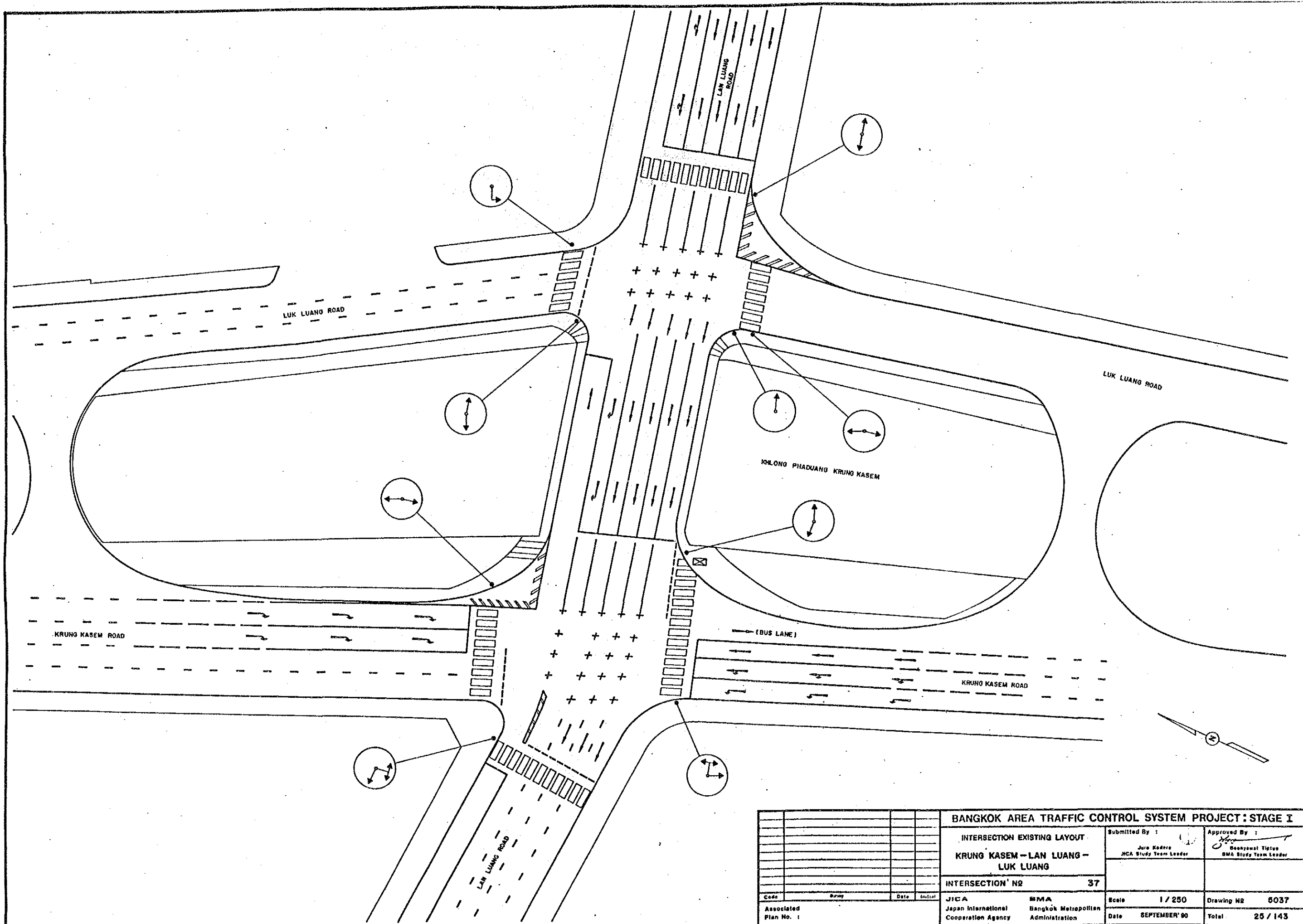


				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By : <i>Jiro Kodera</i>	
				SAWANKHALOK - SI AYUTTHAYA		Approved By : <i>Keenjaunt Titus</i>	
				INTERSECTION NO 35			
				JICA		BMA	
				Japan International		Bangkok Metropolitan	
				Cooperation Agency		Administration	
Code				Survey		Scale 1 / 250	
Associated Plan No. :				Date		Drawing No 5035	
				Initial		Date SEPTEMBER '90	
						Total 23 / 143	

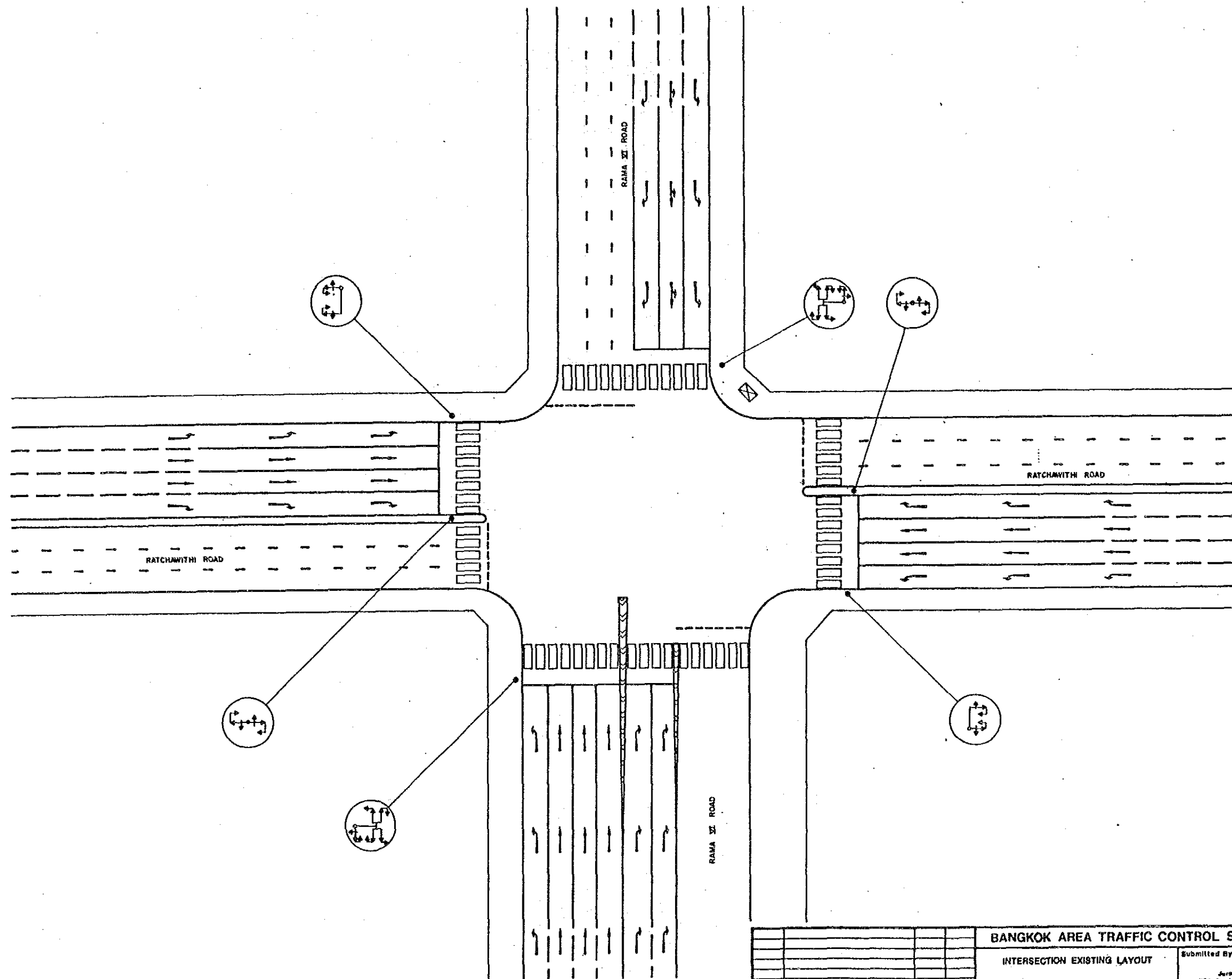


				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
				MAHA CHAI - YAOWARAT - PHIRAPHONG		Jiro Kadera JICA Study Team Leader	<i>[Signature]</i> Somsakorn Tiplas BMA Study Team Leader
				INTERSECTION NO. 36		Designed By	
Code	Drawn	Date	Initial	JICA	BMA	Scale	1 / 250
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	Date	SEPTEMBER '00
						Drawing NR	5036
						Total	24 / 143

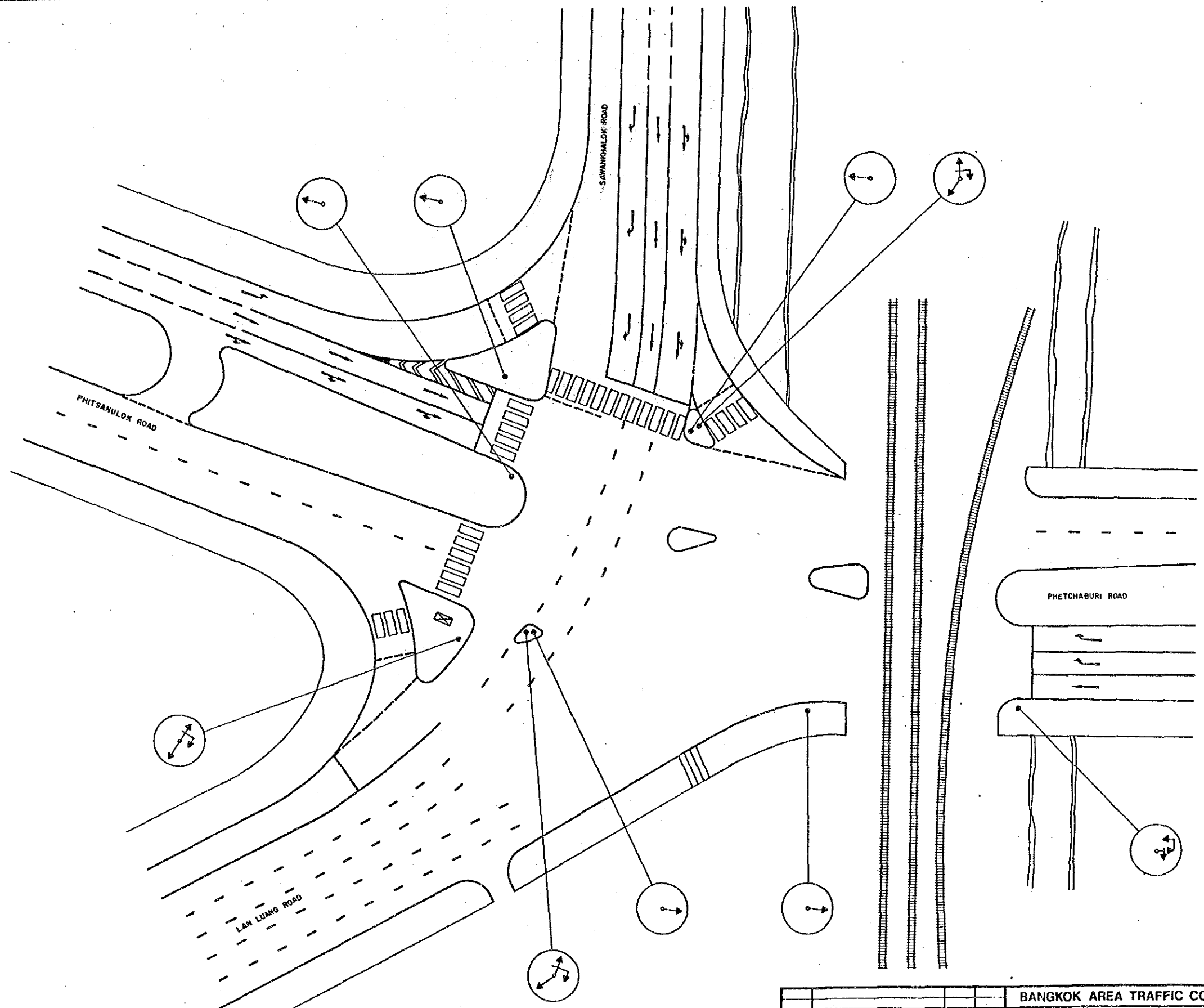




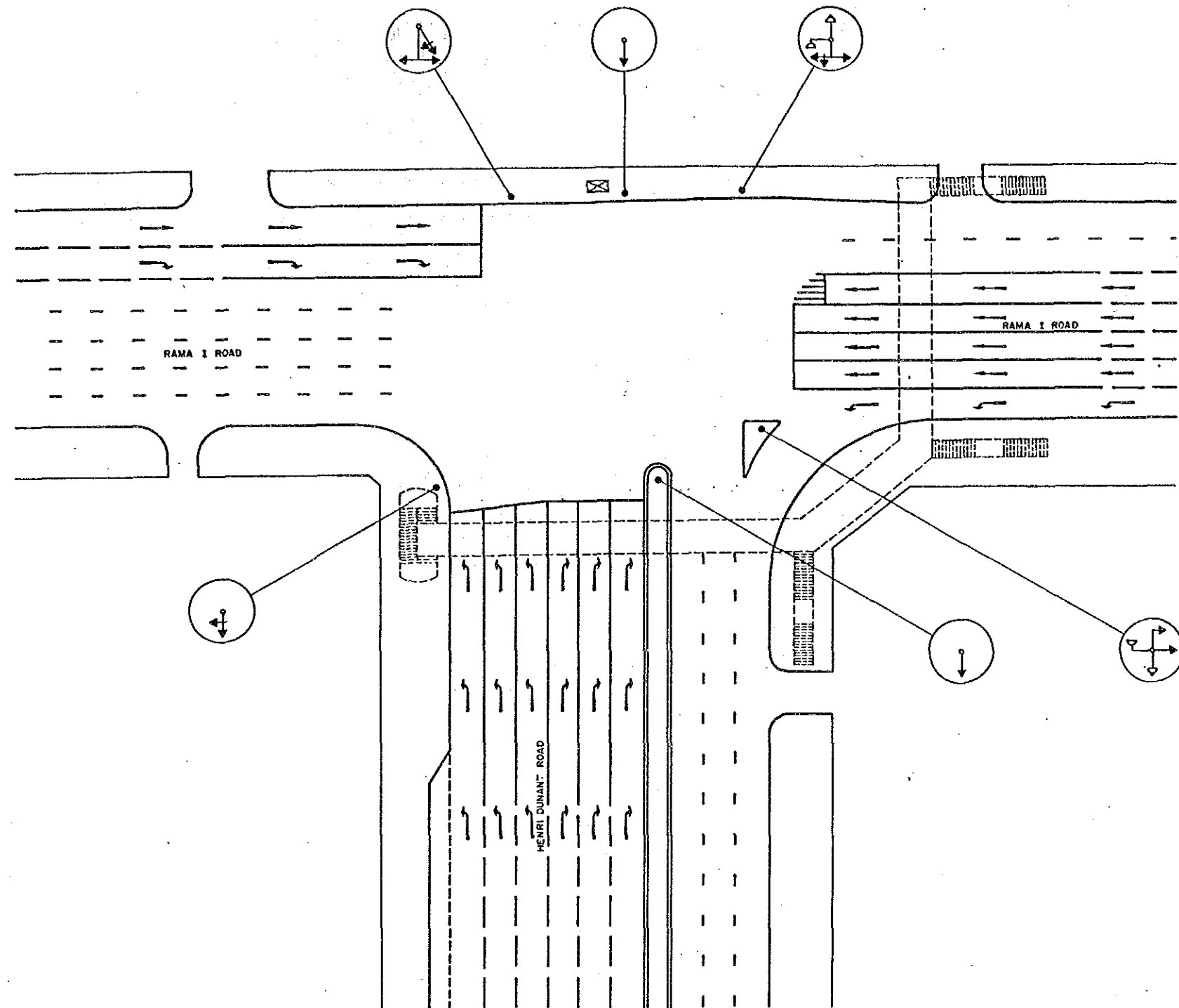
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
KRUNG KASEM - LAN LUANG - LUK LUANG		Jare Kodere JICA Study Team Leader	<i>[Signature]</i> Boonyawat Titavee BMA Study Team Leader
INTERSECTION' NO		37	
Code	Survey	Date	Initial
Associated Plan No. 1			
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 250
		Date	SEPTEMBER '90
		Drawing NR	5037
		Total	25 / 143



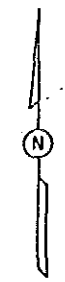
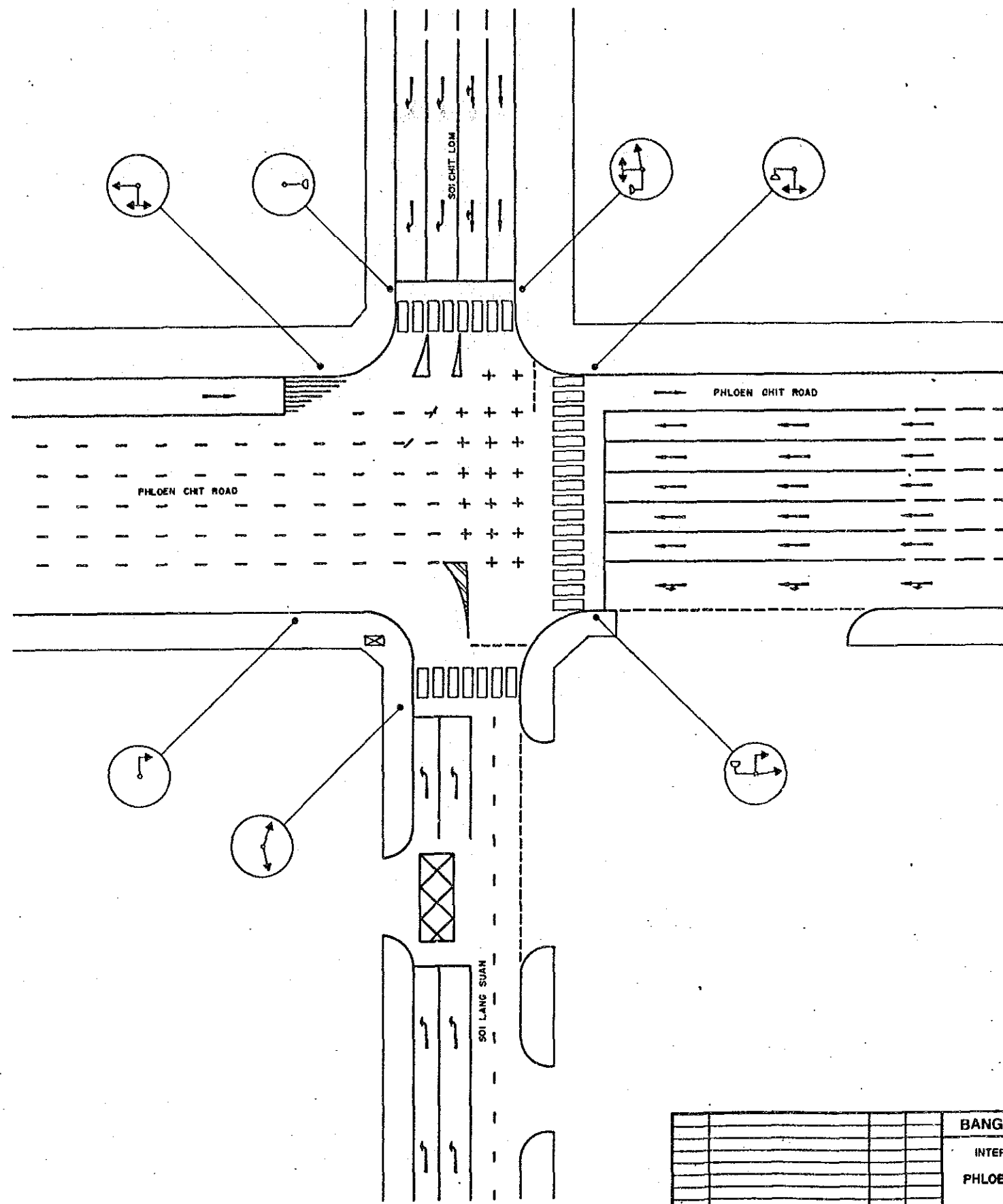
				<b>BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I</b>			
				<b>INTERSECTION EXISTING LAYOUT</b>		Submitted By :	
				<b>RAMA VI - RATCHAWITHI</b>		 Juno Kadera JICA Study Team Leader	
				<b>INTERSECTION NO2</b>		 Keenysawat Tiptao BMA Study Team Leader	
				<b>39</b>		Approved By :	
						Scale <b>1 / 250</b>	
						Drawing No <b>5039</b>	
						Date <b>SEPTEMBER '90</b>	
						Total <b>26 / 143</b>	
Coop Assoc. Plan No. :				Row Date Initial		JICA Japan International Cooperation Agency	
						BMA Bangkok Metropolitan Administration	



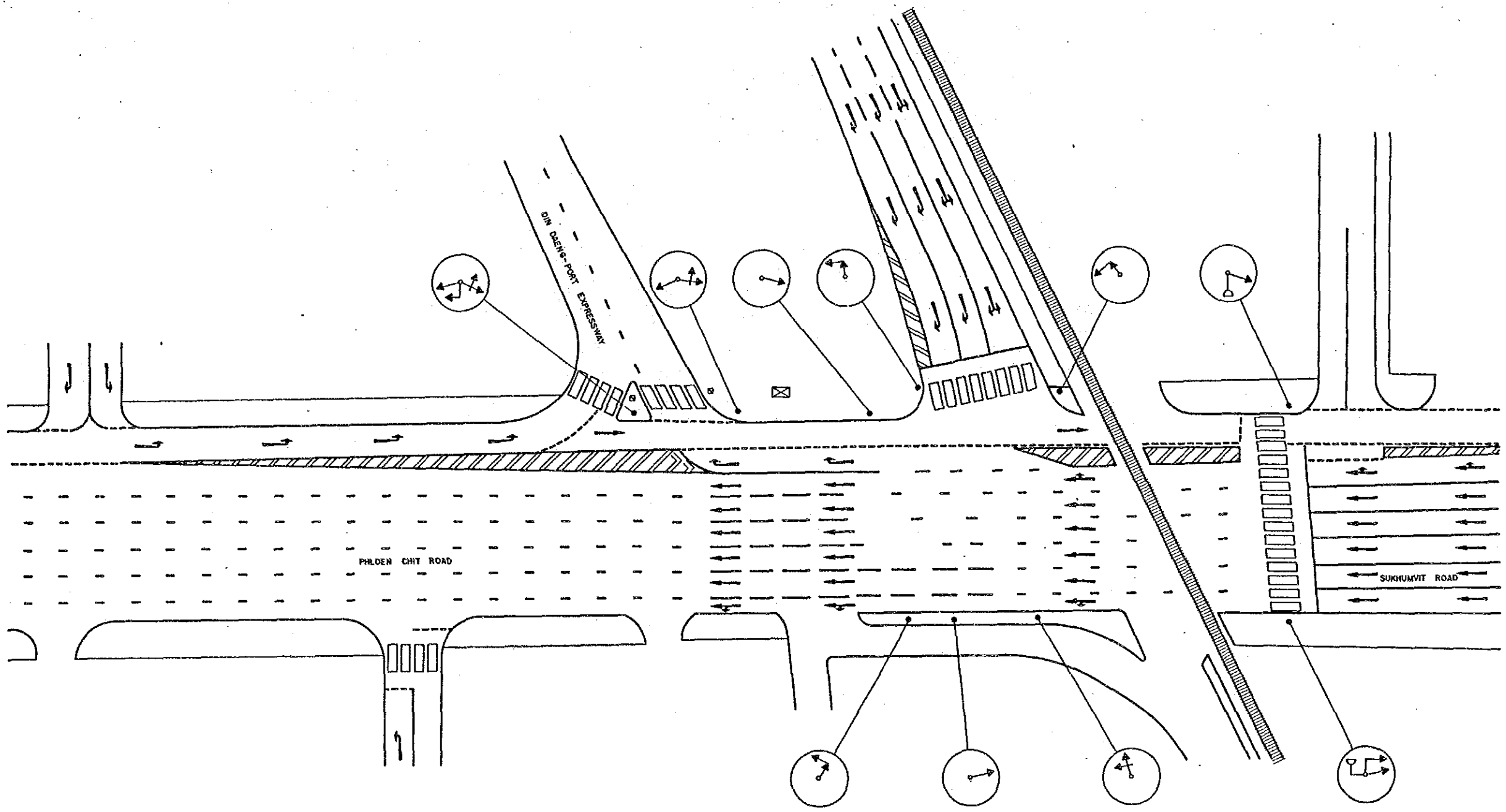
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
SAWANKHALOK - PHETCHABURI - LAN LUANG - PHITSANULOK		Jiro Kodera JICA Study Team Leader	Boonyarat Tiplus BMA Study Team Leader
INTERSECTION NO 40		Scale	Drawing No
Code		1 / 250	5040
Associated Plan No. 1	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Date
		SEPTEMBER '90	Total
			27 / 143



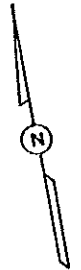
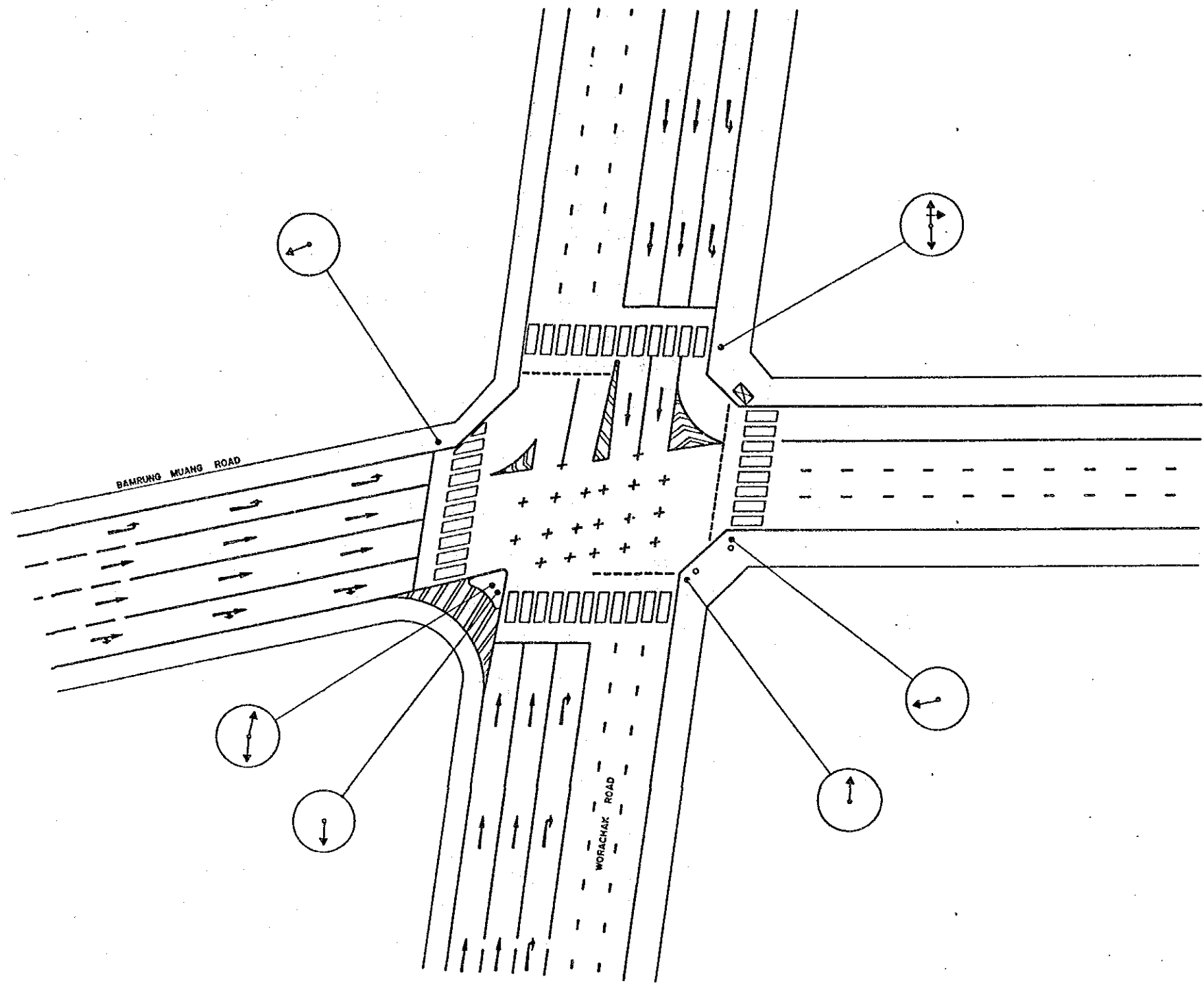
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By : Auro Kadera JICA Study Team Leader	Approved By : <i>[Signature]</i> Somsawat Tiptua BMA Study Team Leader
HENRI DUNANT-RAMA I			
INTERSECTION NO 41			
Code	Survey	Date	Initial
Associated Plan No. :		JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration
		Scale 1/250	Drawing No 5041
		Date SEPTEMBER '90	Total 28 / 143



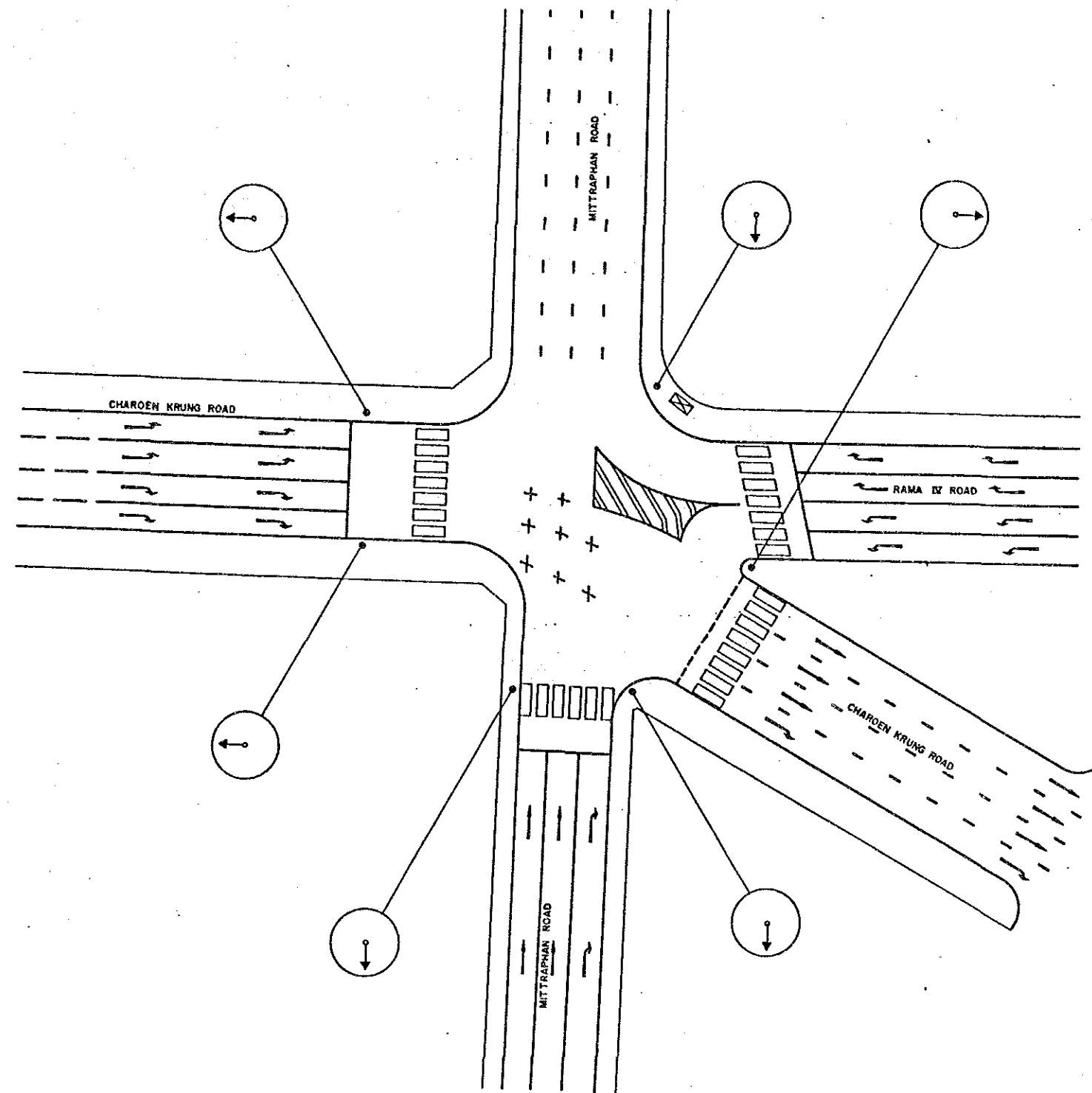
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
PHLOEN CHIT-SOI LANG SUAN-SOI CHIT LOM		Jiro Kodera JICA Study Team Leader	Sanjivraj Titloo BMA Study Team Leader
INTERSECTION NO		42	
Code	Survey	Date	Initial
Associated Plan No. 1	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1/250 Date SEPTEMBER 00
		Drawing NO	5042
		Total	29 / 143



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I							
INTERSECTION EXISTING LAYOUT				Submitted By :		Approved By :	
PHLOEN CHIT - DIN DAENG PORT EXPRESSWAY				Jiro Kodera JICA Study Team Leader		Sakayorn Tiplus BMA Study Team Leader	
INTERSECTION NO 43				Scale 1/250		Drawing No 5043	
Code Survey Date Initial				JICA Japan International Cooperation Agency		BMA Bangkok Metropolitan Administration	
Associated Plan No. :				Date SEPTEMBER '90		Total 30/143	

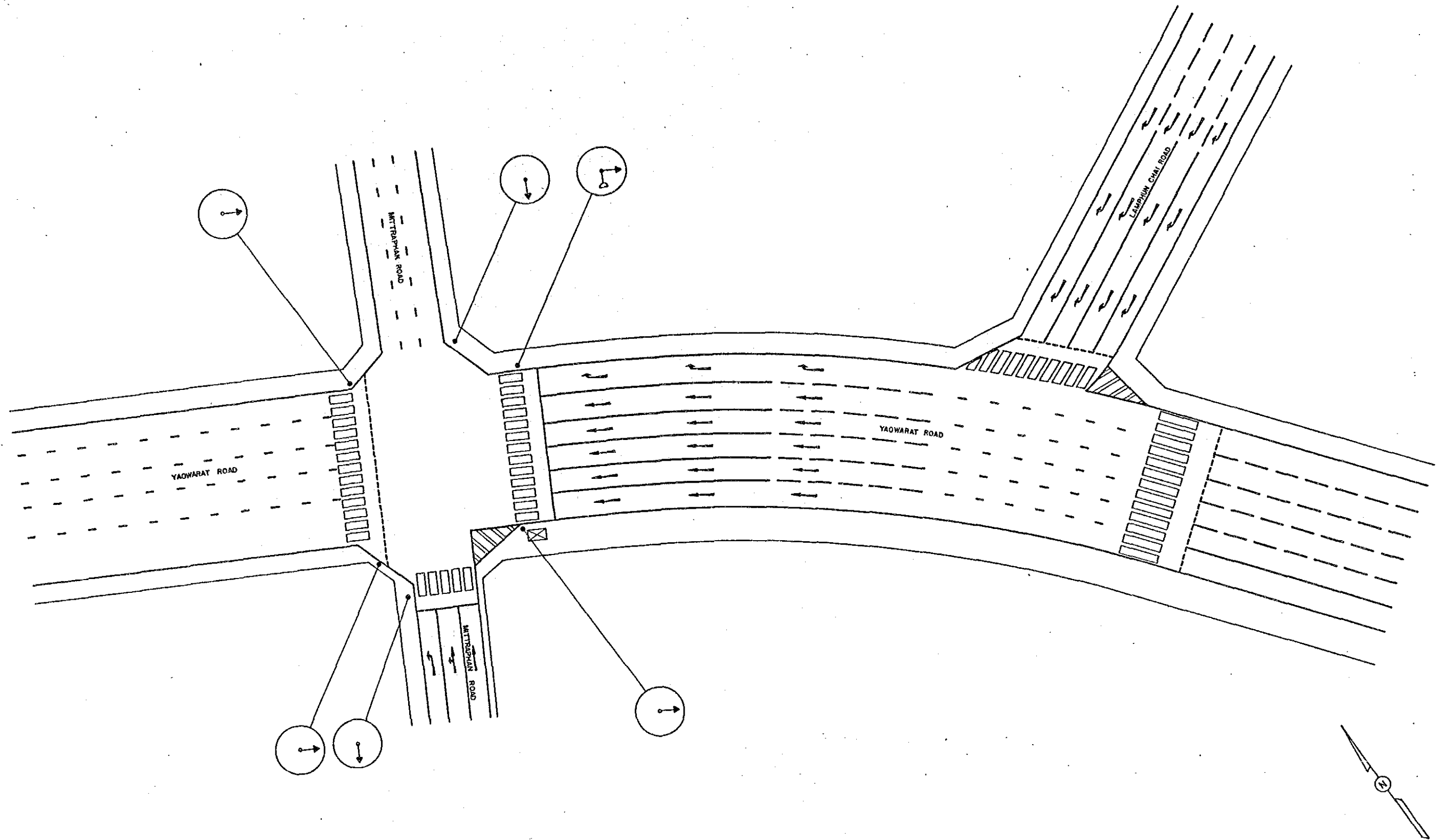


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By : Jura Kodera JICA Study Team Leader	Approved By : <i>[Signature]</i> Boonyawat Tiplas BMA Study Team Leader
WORACHAK - BAMRUNG MUANG			
INTERSECTION NO 44			
Code	Survey	Date	Initial
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1/250 Date SEPTEMBER '90 Drawing NO. 5044 Total 31 / 143

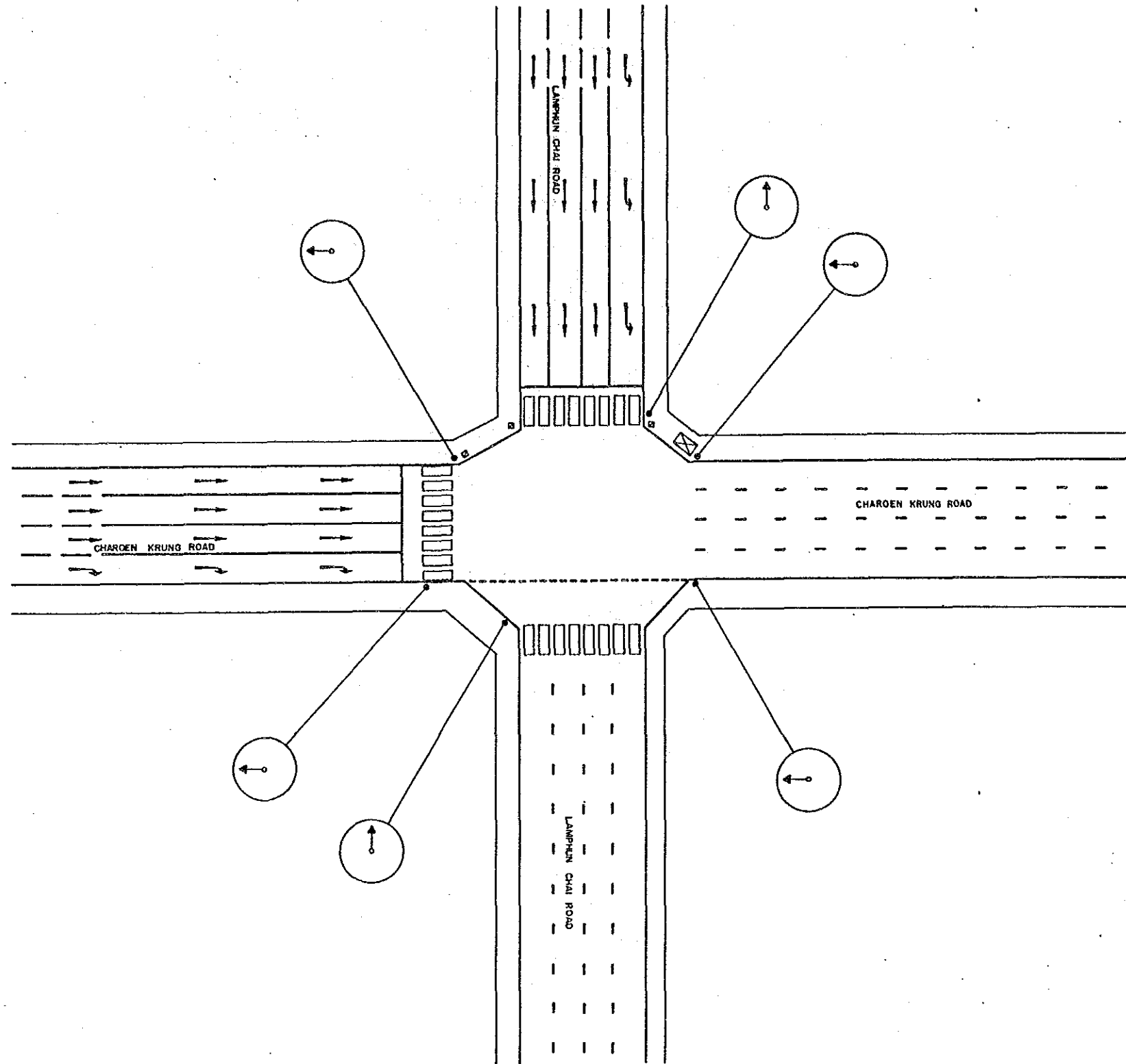


				<b>BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I</b>			
				INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
				<b>CHAROEN KRUNG-RAMA IV-- MITTRAPHAN</b>		Jare Kodora JICA Study Team Leader	Scanyast Tiptua BMA Study Team Leader
				INTERSECTION NO. 46			
Code	Survey	Date	Initial	JICA	BMA	Scale	Drawing No.
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	1/250	5046
						Date : SEPTEMBER 90,	Total 32 / 143

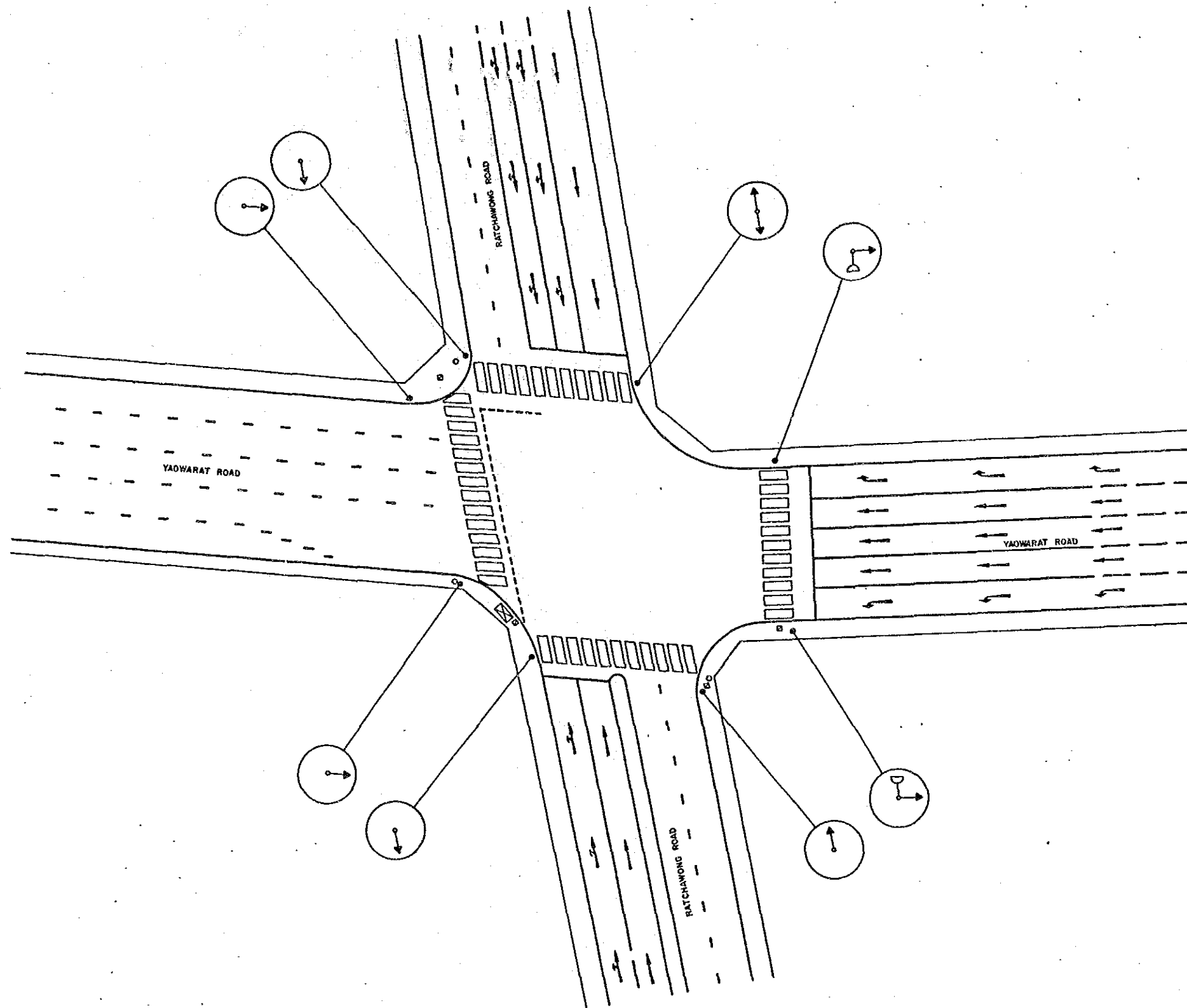




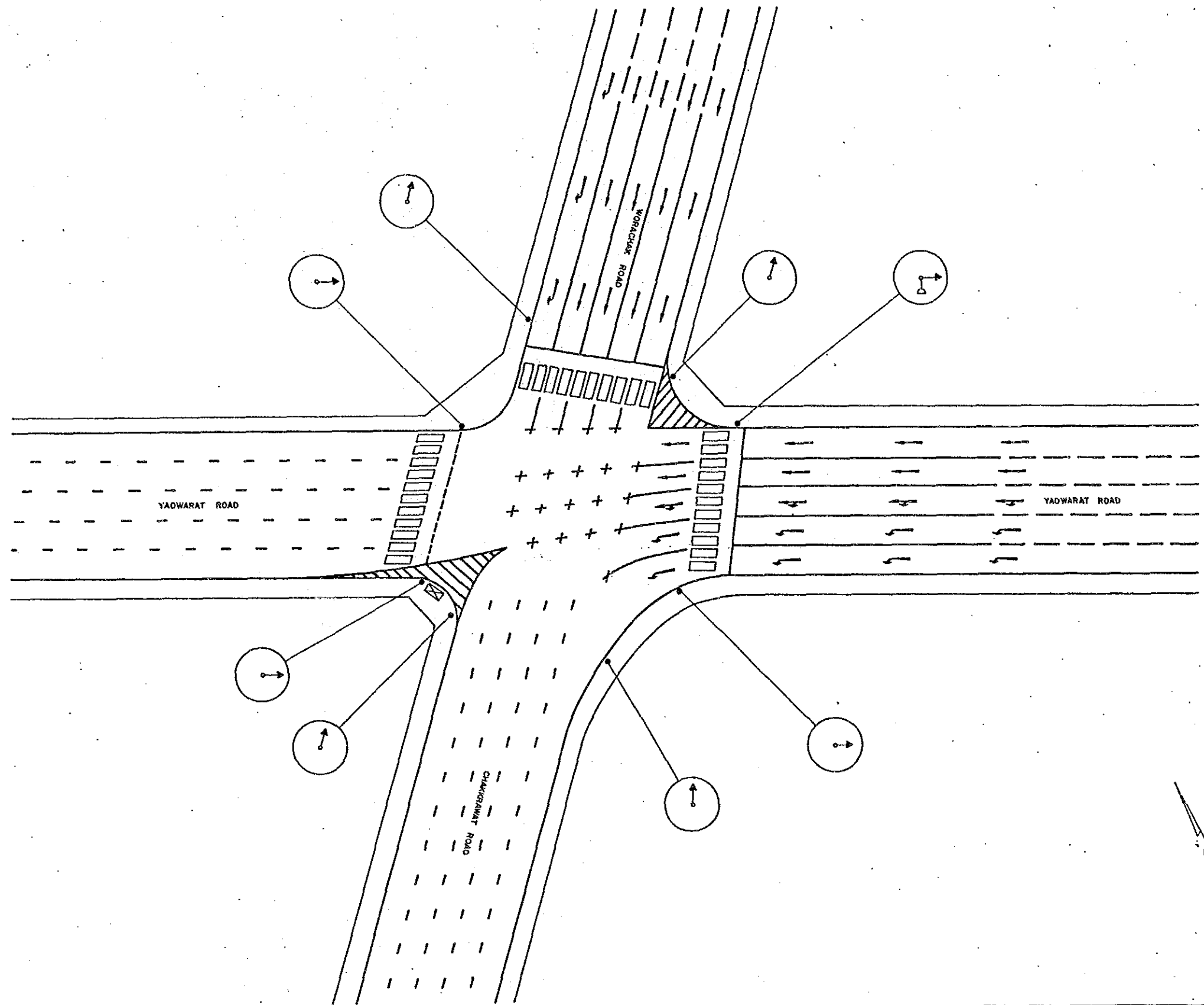
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT, YAOWARAT-MITTRAPHAN		Submitted By : Duro Kerdor JICA Study Team Leader	Approved By : <i>[Signature]</i> Kosaynat Tiplas BMA Study Team Leader
INTERSECTION NO 47			
Code	Survey	Date	Initial
Associated Plan No. 1	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER 90 Drawing No 5047 Total 33 / 143



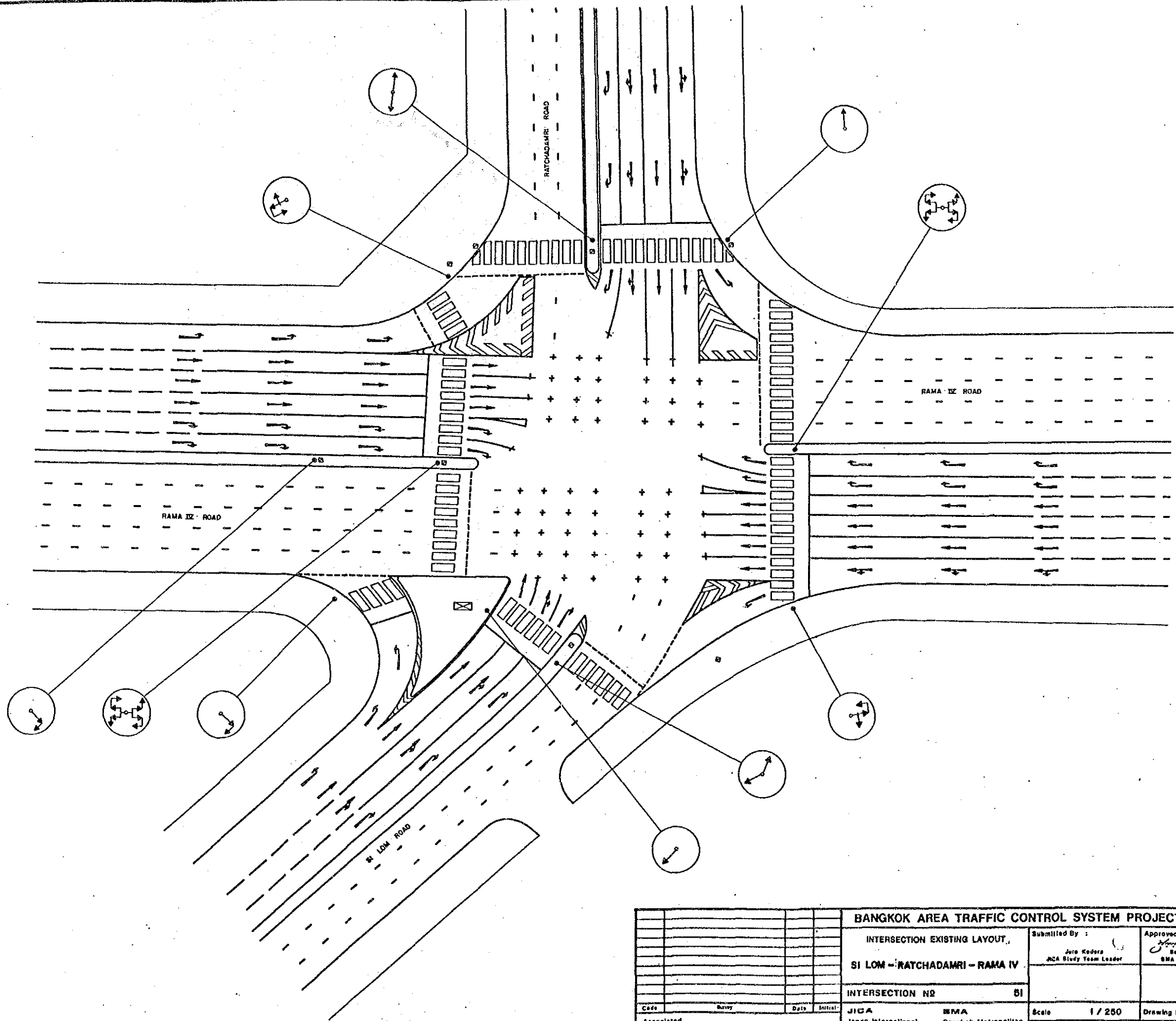
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By : Aro Kadero JICA Study Team Leader	Approved By : <i>[Signature]</i> Sobayest Tiplas BMA Study Team Leader
CHAROEN KRUNG-LAMPHUN CHAI			
INTERSECTION NO 48			
Code	Survey	Date	Millit
Associated Plan No. 1	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER '00
			Drawing NO 5048 Total 34 / 143



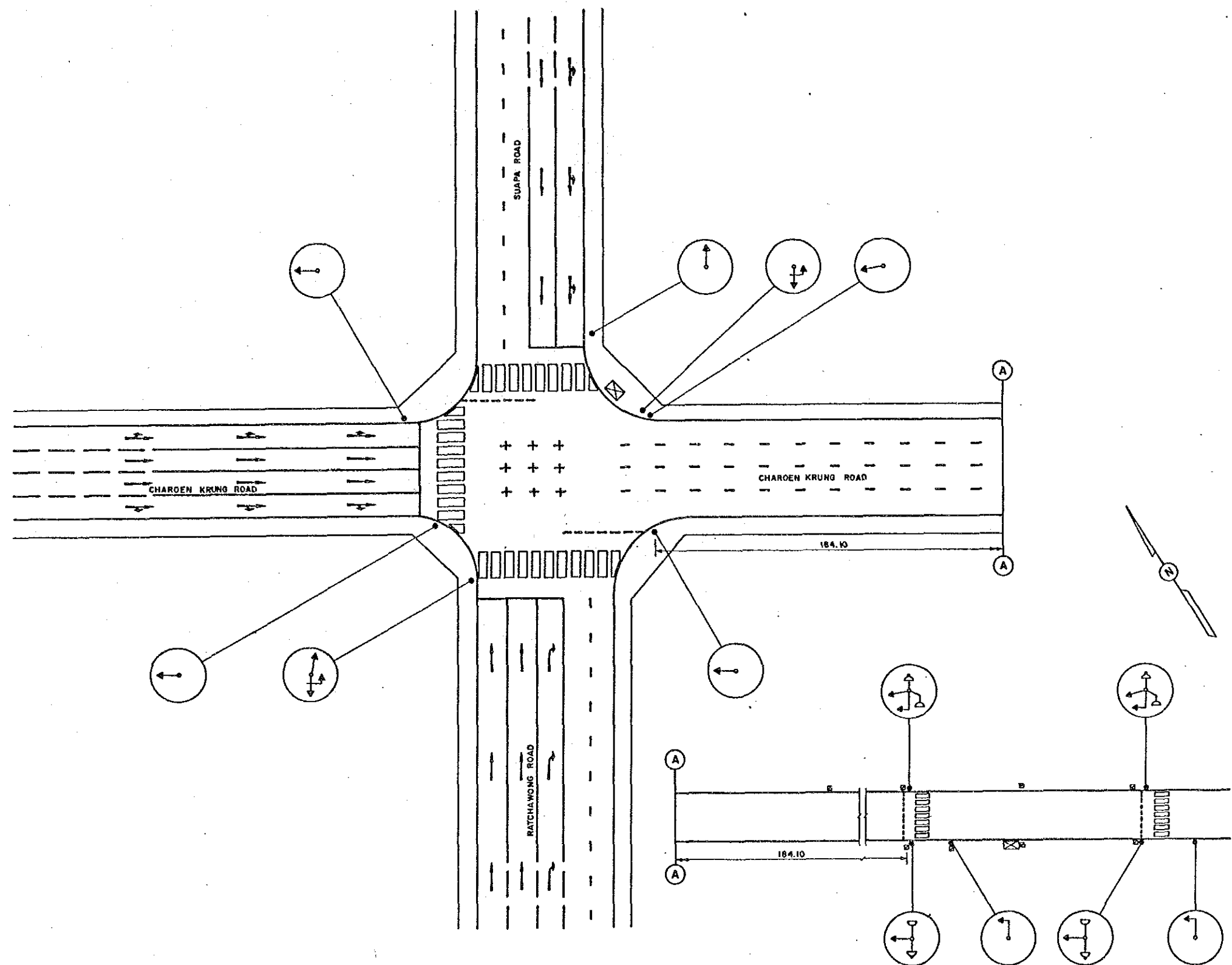
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I									
INTERSECTION EXISTING LAYOUT RATCHAWONG - YAOWARAT						Submitted By :		Approved By :	
						JIC Kudara JICA Study Team Leader		<i>[Signature]</i> Boonyawat Tiplua BMA Study Team Leader	
INTERSECTION NO						49			
Code	Drawn	Date	Initial	JICA	BMA	Scale	1 / 250	Drawing No	5049
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	Date	SEPTEMBER '90	Total	35 / 143



				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By : <i>Jiro Kodera</i>	
				CHAKKRAWAT-YAOWARAT-WORACHAK		JICA Study Team Leader	
				INTERSECTION NO 50		Approved By : <i>Roonyawat Titua</i>	
						BMA Study Team Leader	
Code	Drawn	Date	Initial	JICA	BMA	Scale	1 / 250
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	Date	SEPTEMBER '90
						Drawing No	5050
						Total	36 / 143

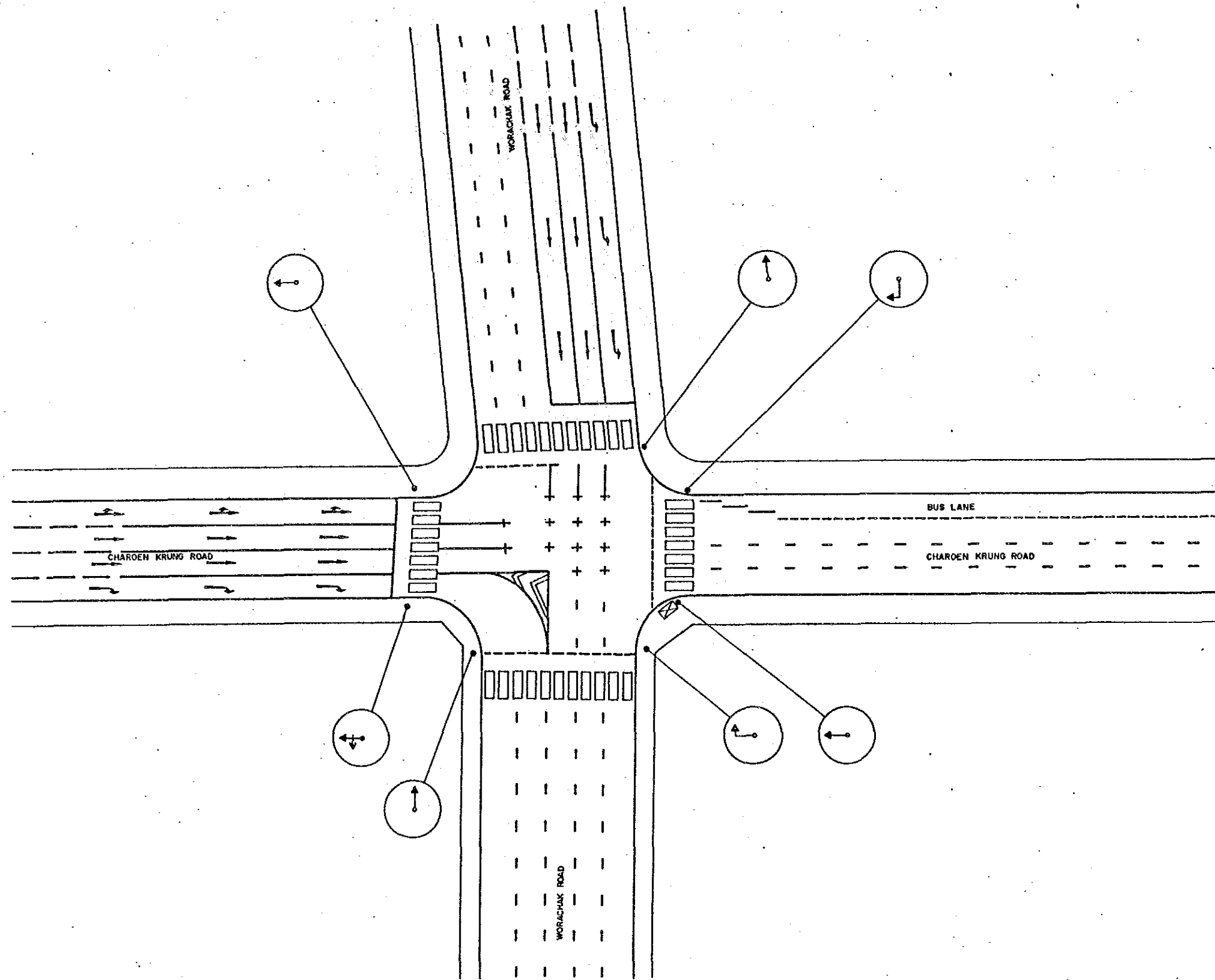


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT,		Submitted By :	Approved By :
SI LOM - RATCHADAMRI - RAMA IV		Juta Kedera JICA Study Team Leader	Boonpratt Titipus BMA Study Team Leader
INTERSECTION NO		SI	
Code	Survey	Date	Initial
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER 90
		Drawing NO 5051	Total 37 / 143

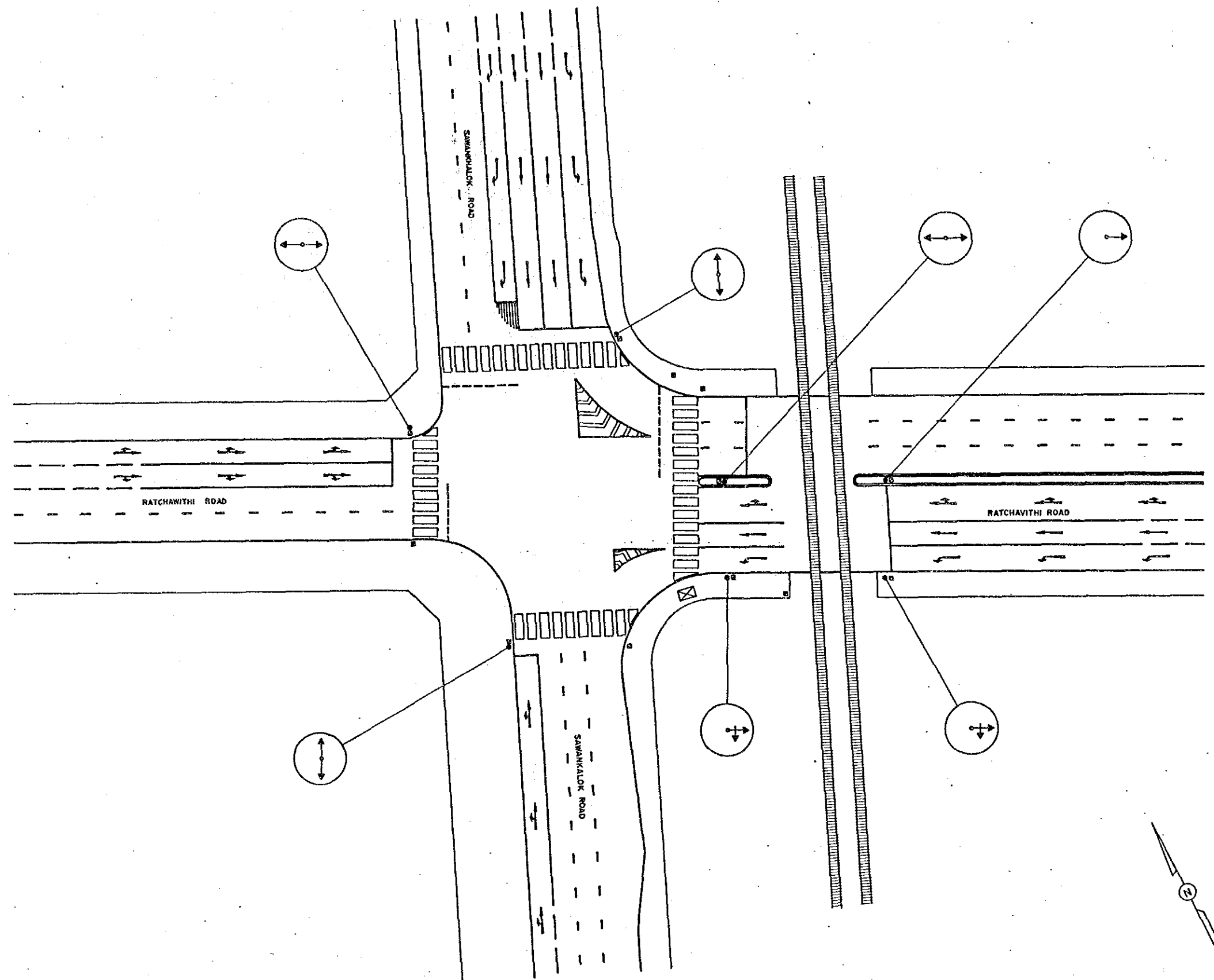


SCALE 1 : 500

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
SUAPA-CHAROEN KRUNG-RATCHAWONG		Jiro Kodera JICA Study Team Leader	Benyont Tiptua BMA Study Team Leader
INTERSECTION NO 82			
Cdn	Survey	Date	INITIAL
Associated Plan No. 1		JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration
		Scale 1 / 250	Drawing NO 6052
		Date SEPTEMBER '90	Total 38 / 143

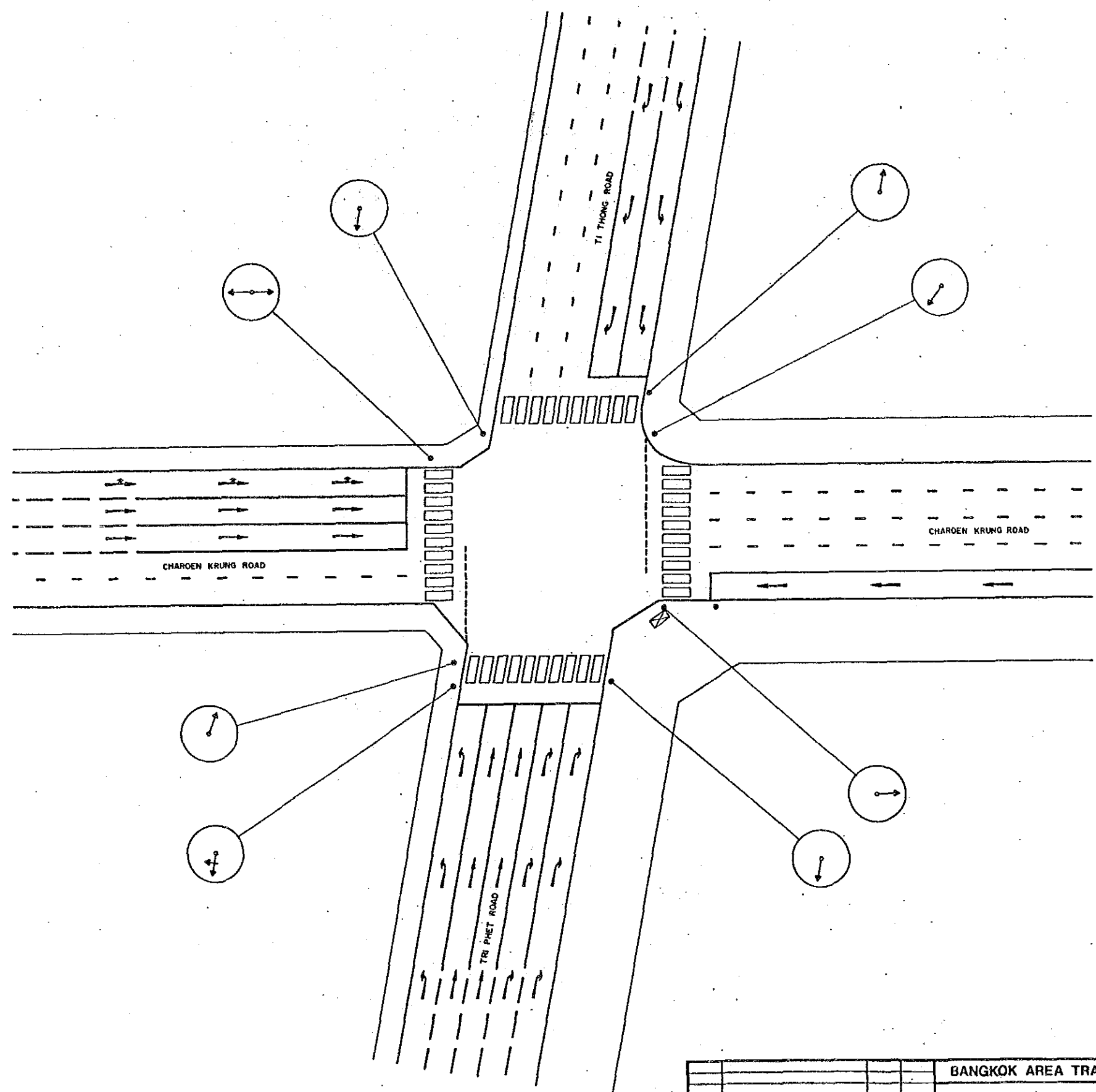


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
WORACHAK - CHAROEN KRUNG		Jiro Kodera JICA Study Team Leader	Boonyawat Tipiso BMA Study Team Leader
INTERSECTION NO		83	
Code	Draw	Date	Initial
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER '90
		Drawing NO	5053
		Total	39 / 143

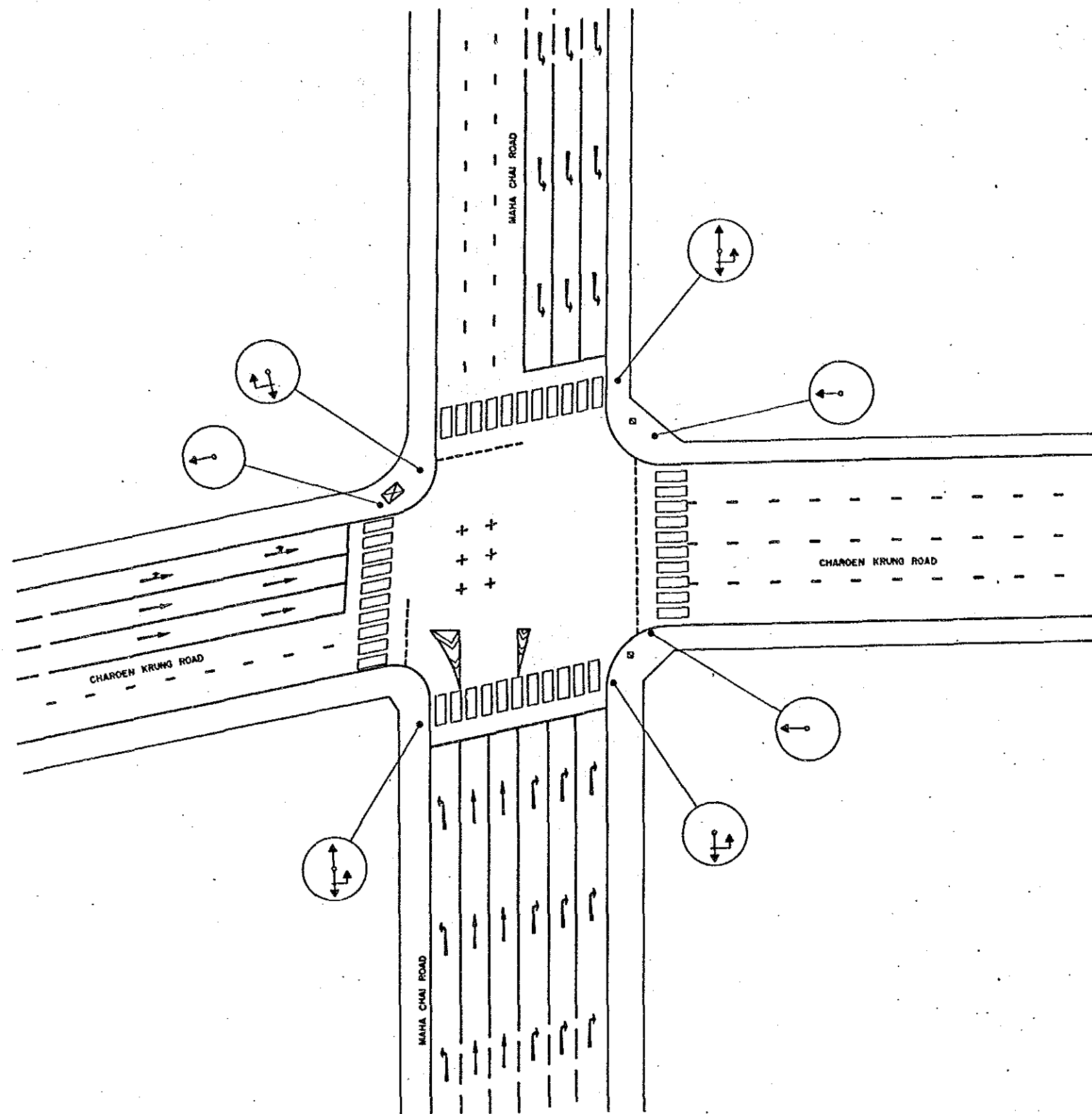


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
SAWANKHALOK - RATCHAWITHI		Jiro Kodera JICA Study Team Leader	Esayanant Tiptua BMA Study Team Leader
INTERSECTION NO 54			
Case	Survey	Date	Initial
Associated Plan No. :		JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration
		Scale 1 / 250	Drawing NO 5054
		Date SEPTEMBER 90	Total 40 / 143

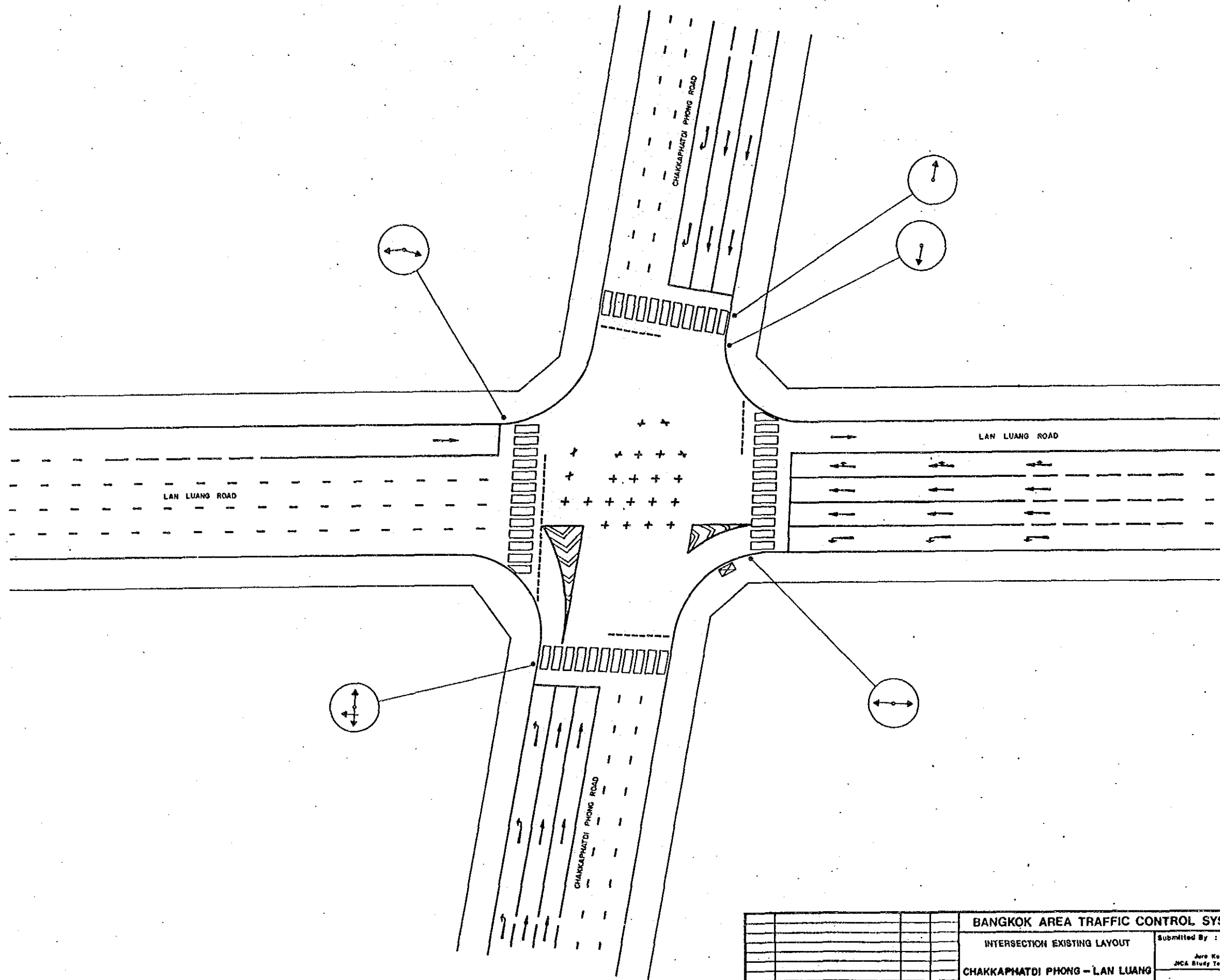




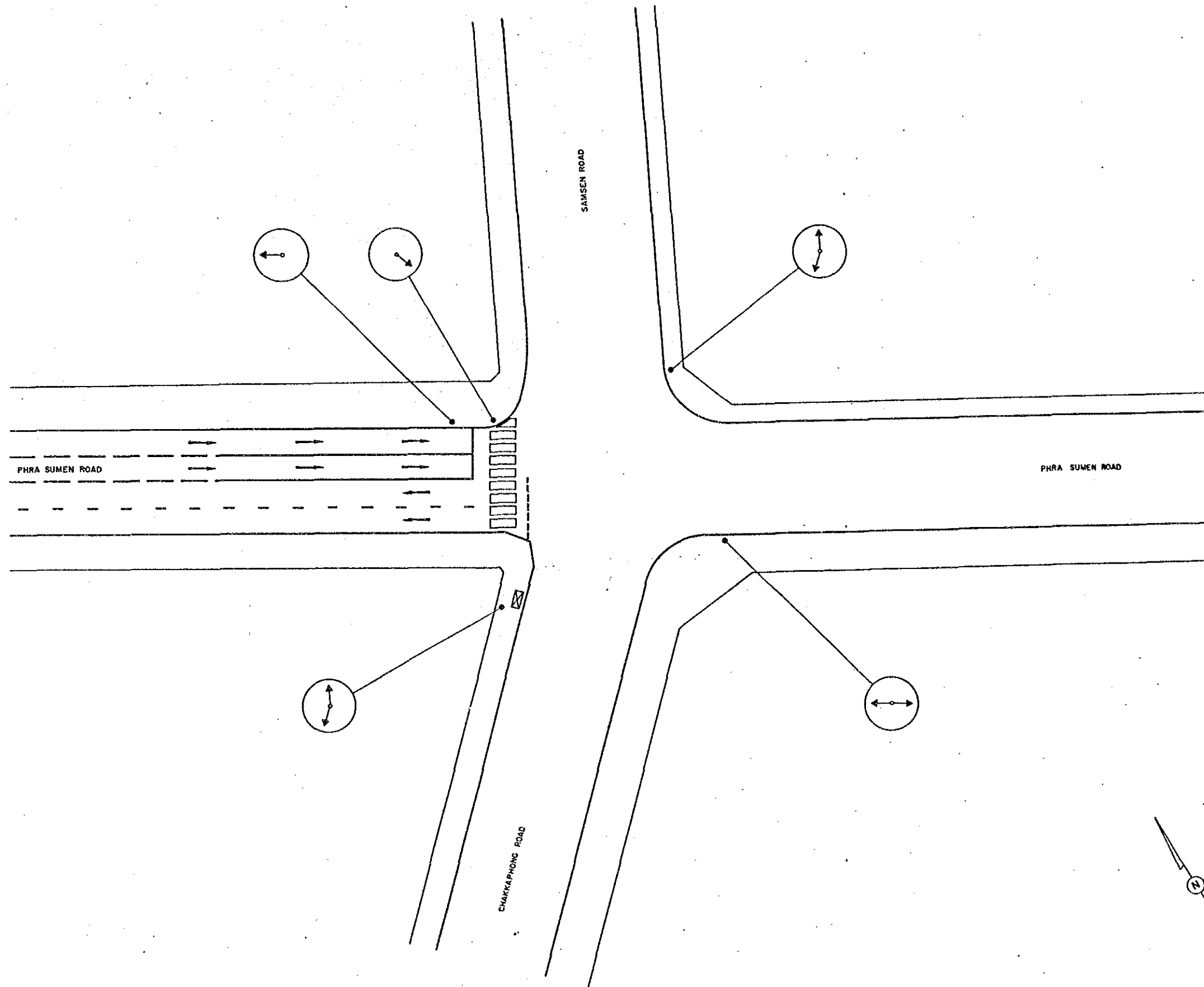
				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By : Jun Nadera JICA Study Team Leader	
				TRI PHET - CHAROEN KRUNG - TRI THONG		Approved By : <i>[Signature]</i> Sangyot Tipta BMA Study Team Leader	
				INTERSECTION NO 55			
Code	Survey	Date	Initial	JICA	BMA	Scale	1 / 250
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	Date	SEPTEMBER '90
						Drawing NB. 5055	
						Total 41 / 143	



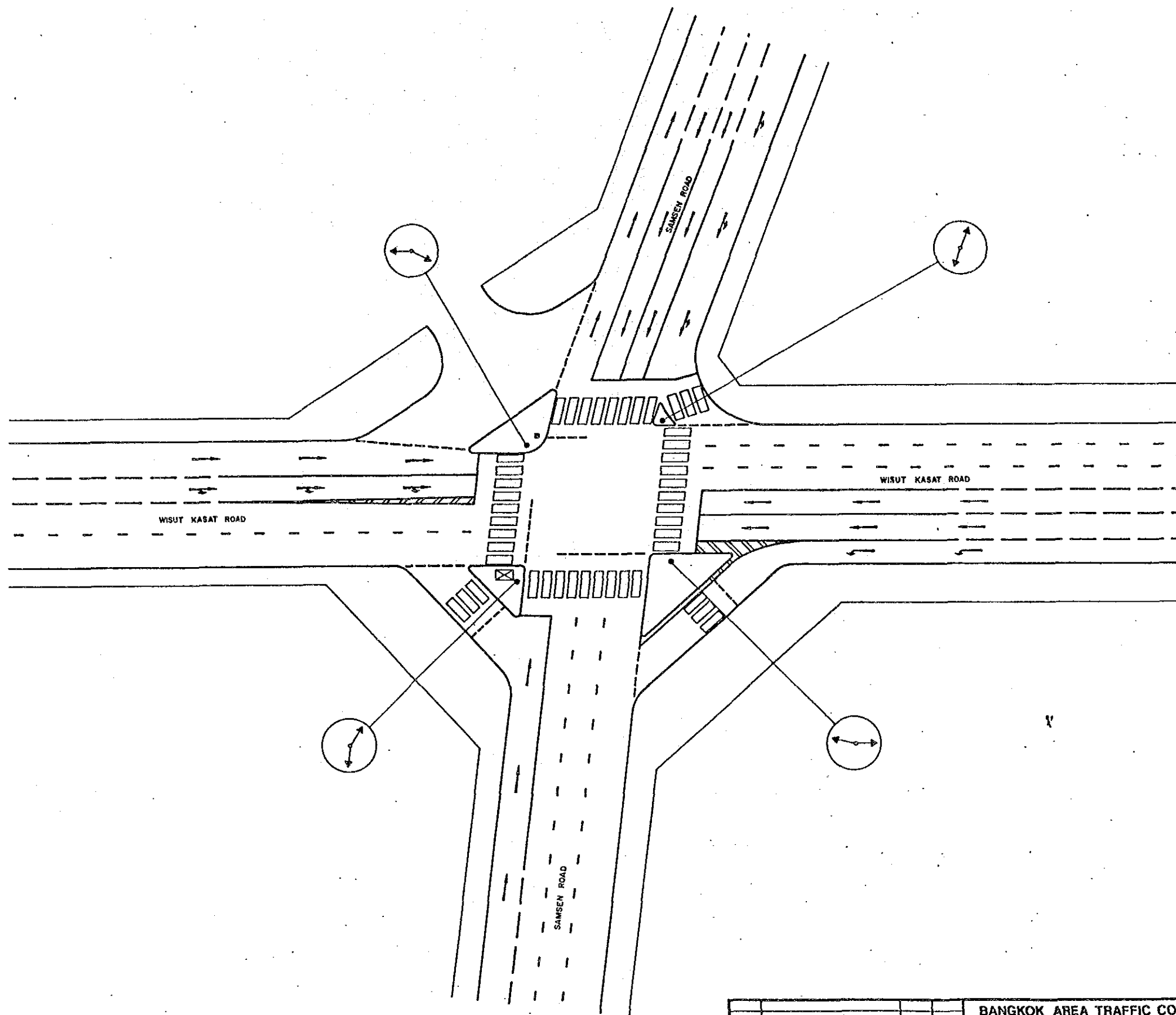
				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
				MAHA CHAI - CHAROEN KRUNG		Jiro Kodera JICA Study Team Leader	Supanant Tiptoo BMA Study Team Leader
				INTERSECTION NO 56			
				JICA	BMA	Scale 1 / 250	Drawing No 5056
				Japan International Cooperation Agency	Bangkok Metropolitan Administration	Date SEPTEMBER '90	Total 42 / 143



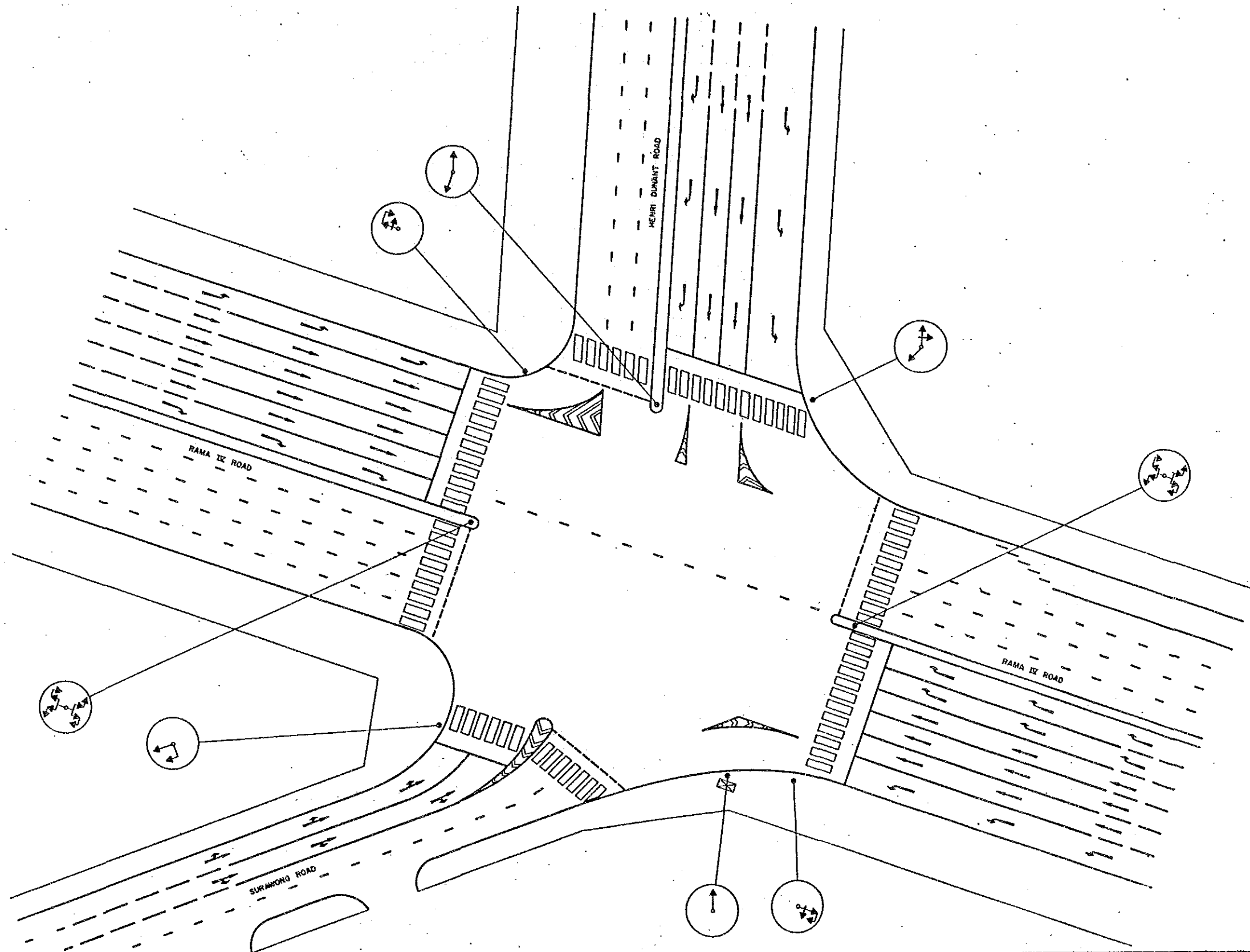
				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By : <i>Jiro Kodera</i> JICA Study Team Leader	
				CHAKKAPHATDI PHONG - LAN LUANG		Approved By : <i>Boonyawat Titler</i> BMA Study Team Leader	
				INTERSECTION NO 57			
Assoc.	Plan No.	Survey	Date	Initial	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1/250 Date SEPTEMBER 90
						Drawing No 5057 Total 43 / 143	



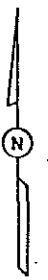
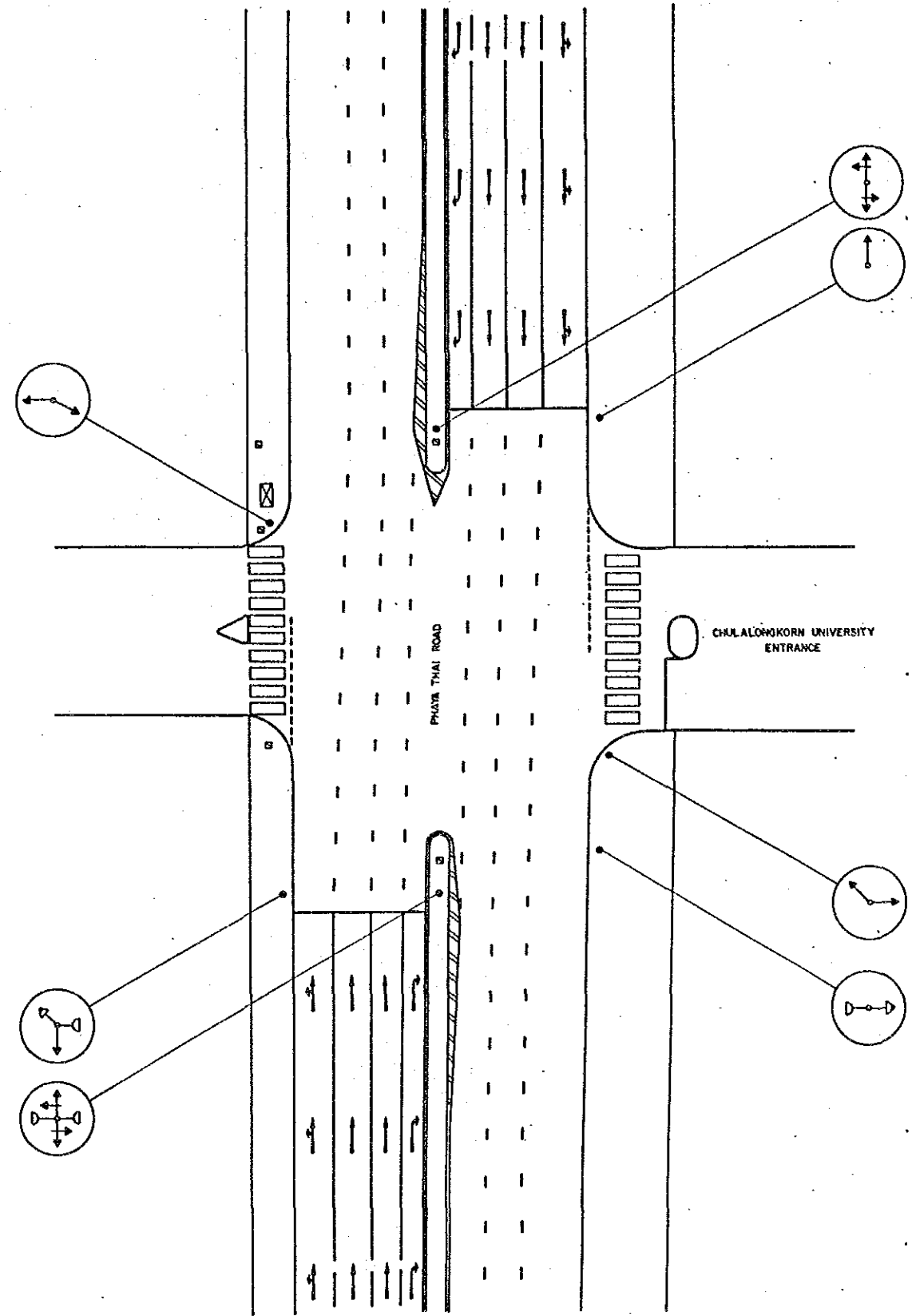
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By : Jiro Kozono JICA Study Team Leader	Approved By : <i>[Signature]</i> Suwaswat Tiptus RMA Study Team Leader
SAMSEN-CHAKKRAPHONG-PHRA SUNEN			
INTERSECTION N2		58	
Code	Survey	Date	Initial
Associated Plan No. :		JICA Japan International Cooperation Agency	MMA Bangkok Metropolitan Administration
		Scale	1 / 250
		Date	SEPTEMBER '90
		Drawing No	8058
		Total	44 / 143



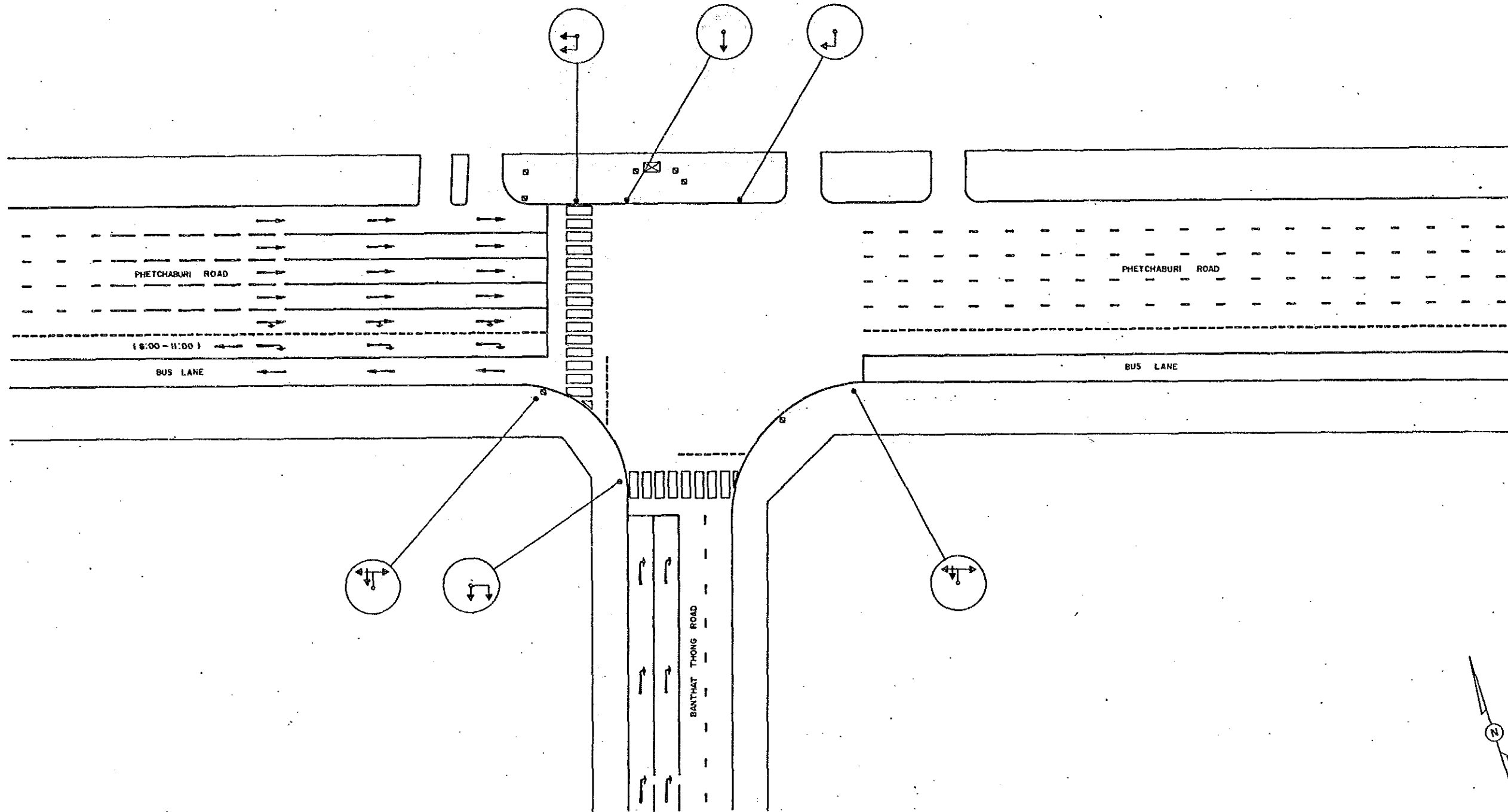
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I										
INTERSECTION EXISTING LAYOUT					Submitted By :		Approved By :			
					Jure Kodere JICA Study Team Leader		 Boonyawat Tigra BMA Study Team Leader			
SAMSEN-WISUT KASAT					INTERSECTION NO 59					
					Code		Survey		Date	Initial
Associated Plan No. :					JICA Japan International Cooperation Agency		BMA Bangkok Metropolitan Administration		Scale 1 / 250	Drawing No 5059
					Date		SEPTEMBER '90		Total	45 / 143



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
HENRI DUNANT-RAMA IV-SURAWONG		Juro Kudara JICA Study Team Leader	<i>[Signature]</i> Boonyarat Tiplas BMA Study Team Leader
INTERSECTION NO 63			
Cods	Survey	Date	Initial
Associated Plan No. :		JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration
		Scale 1 / 250	Drawing No 5063
		Date SEPTEMBER '80	Total 46 / 143

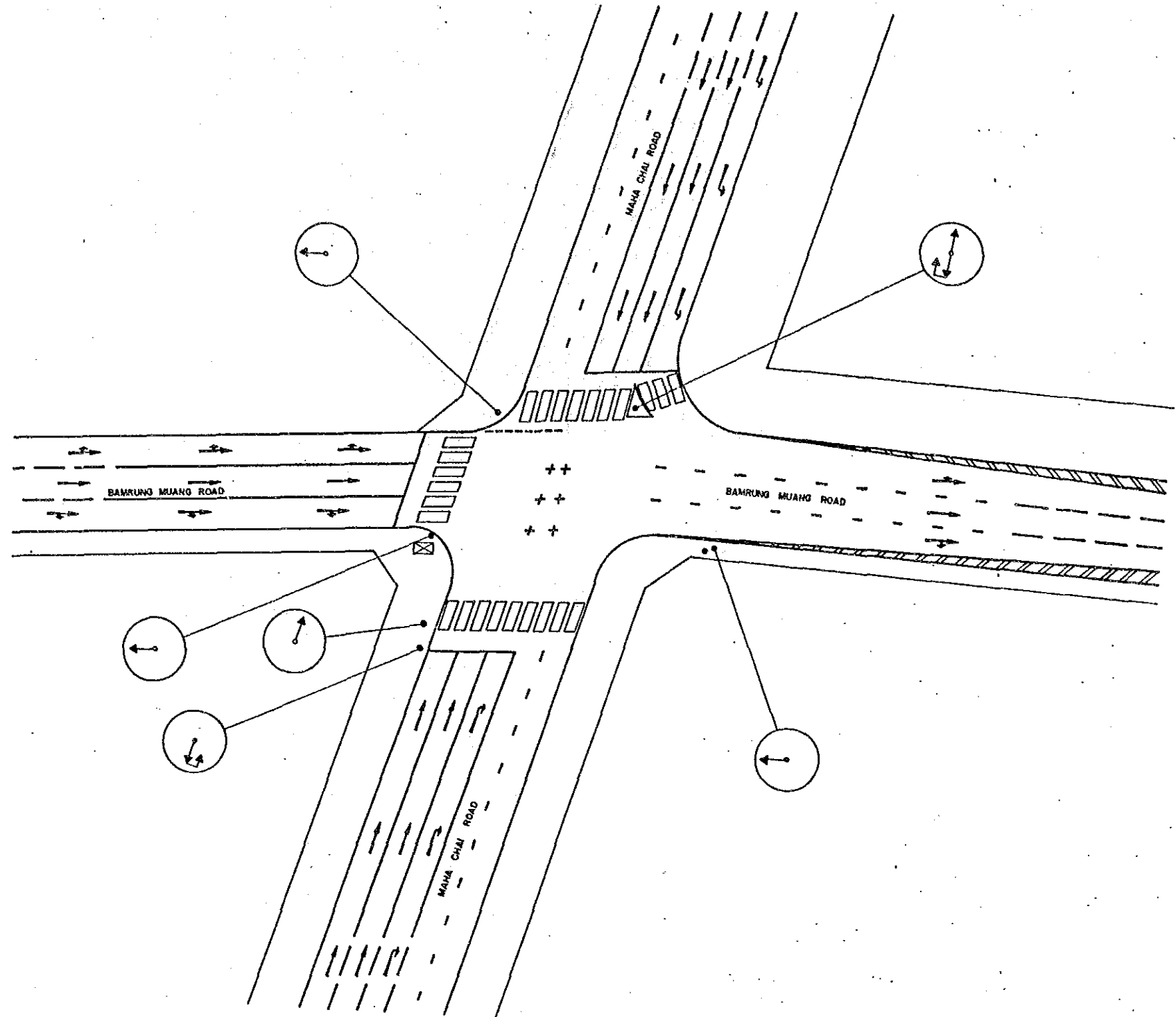


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
PHAYA THAI - CHULALONGKORN UNIVERSITY ENTRANCE		Jiro Kodera JICA Study Team Leader	Boonawat Tiplun BMA Study Team Leader
INTERSECTION NO 64			
Code	Survey	Date	Initial
Associated Plan No. 1	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1/250 Date SEPTEMBER '90 Drawing No. 5064 Total 47 / 143

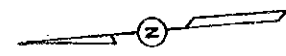
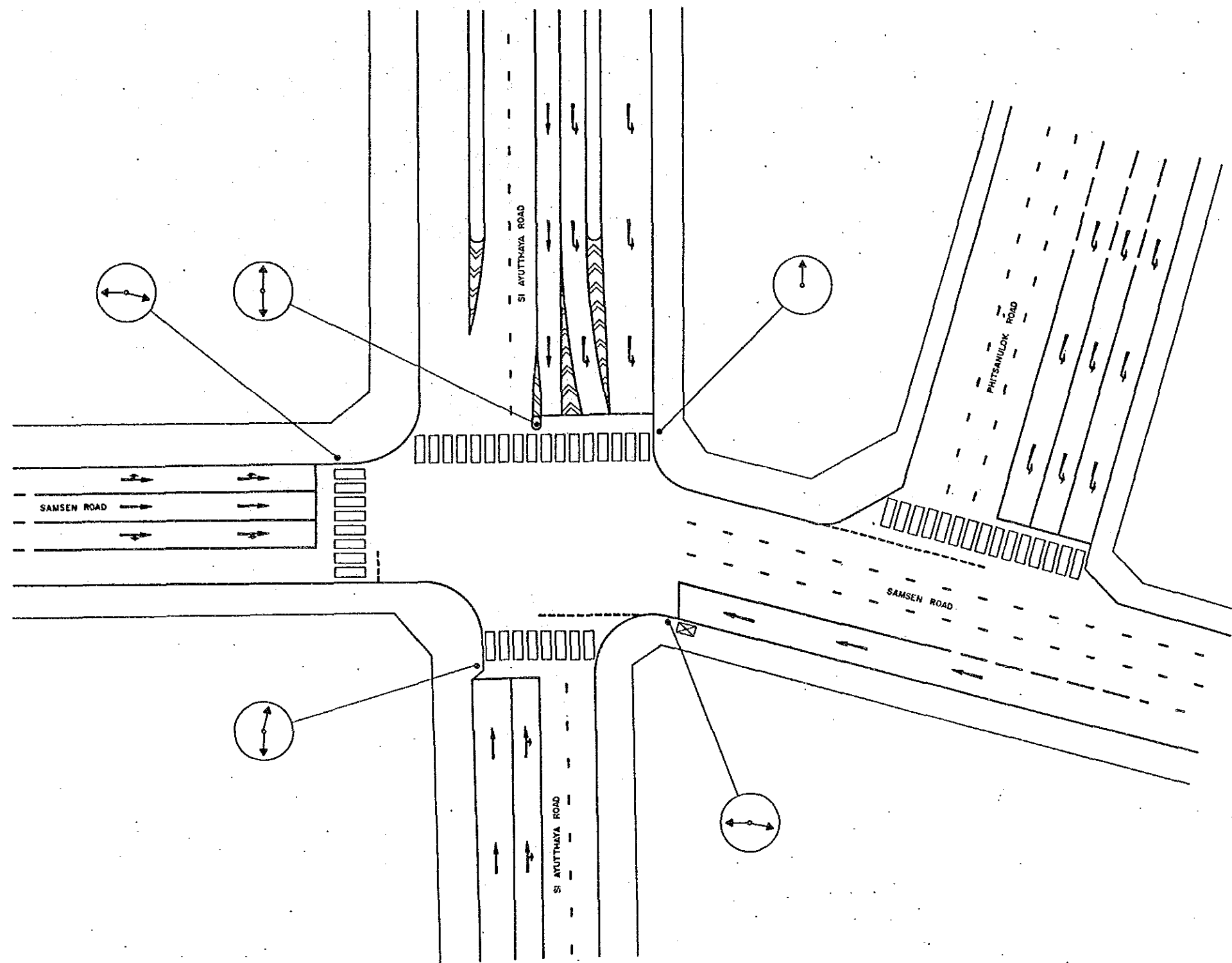


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I.			
INTERSECTION EXISTING LAYOUT		Submitted By : Jure Kodera JICA Study Team Leader	Approved By : Somsawat Tiptua BMA Study Team Leader
BANTHAT THONG - PHETCHABURI			
INTERSECTION NO 67			
Code	Survey	Date	Initial
Associated Plan No. 1	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER 90 Drawing No 5067 Total 48 / 143

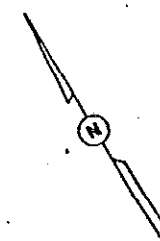
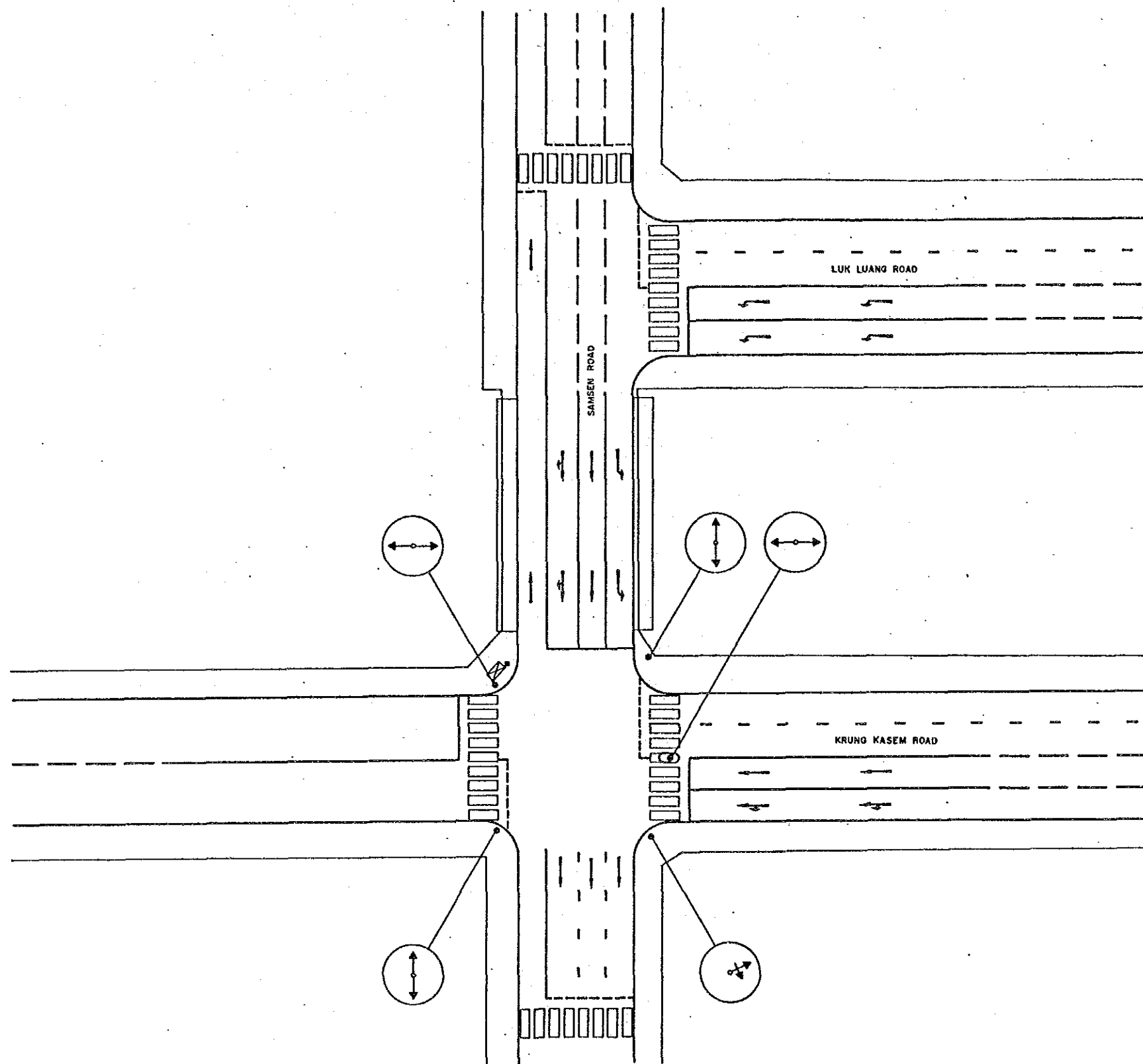




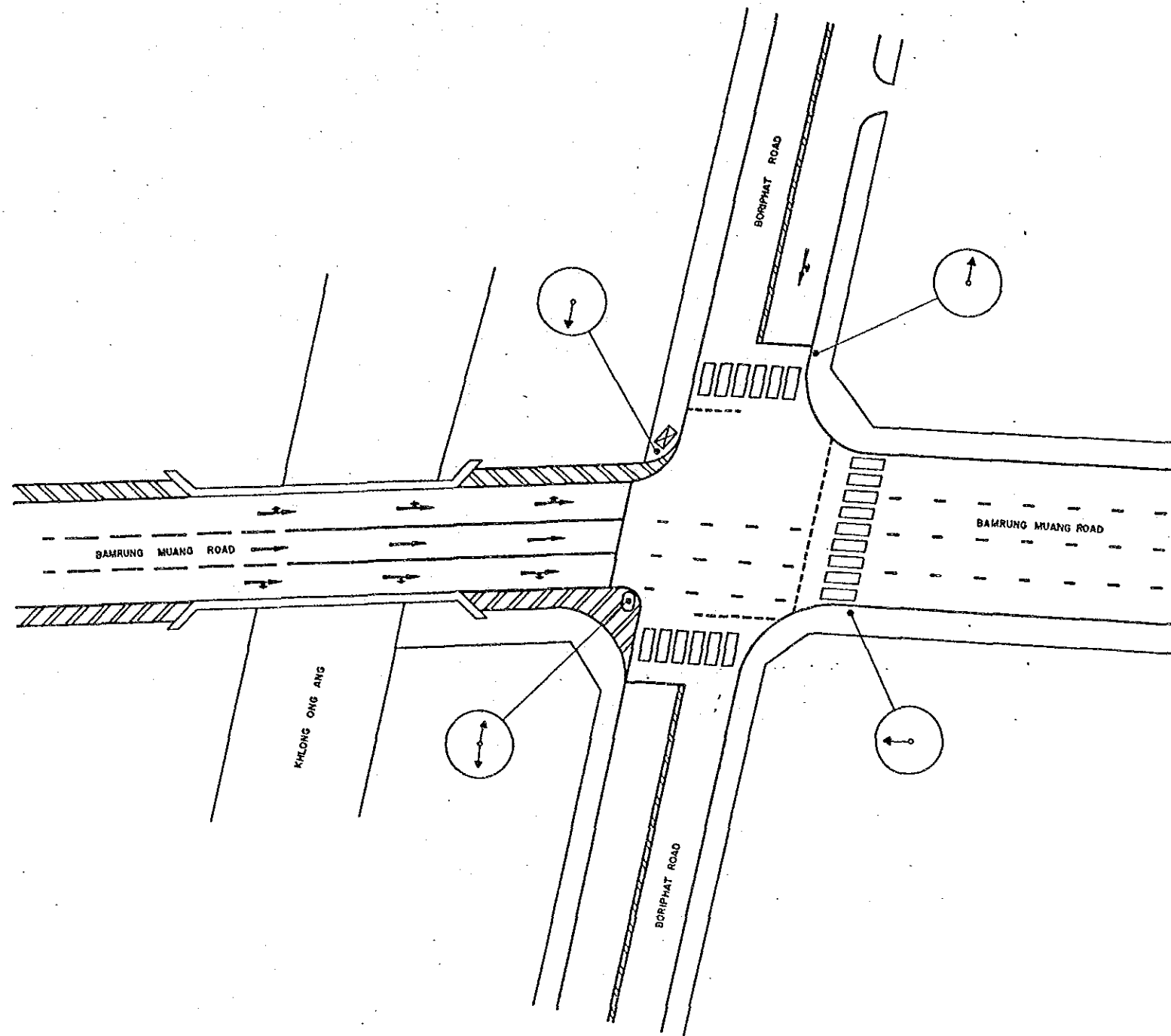
				<b>BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I</b>			
				<b>INTERSECTION EXISTING LAYOUT</b>		Submitted By : Jum Kudara JICA Study Team Leader	
				<b>MAHA CHAI - BAMRUNG MUANG</b>		Approved By : <i>[Signature]</i> Boonyawat Tiptua GMA Study Team Leader	
				<b>INTERSECTION NO 70</b>			
Code	Drawn	Date	Initial	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250	Drawing No 5070
Associated Plan No. :						Date SEPTEMBER '90	Total 49 / 143



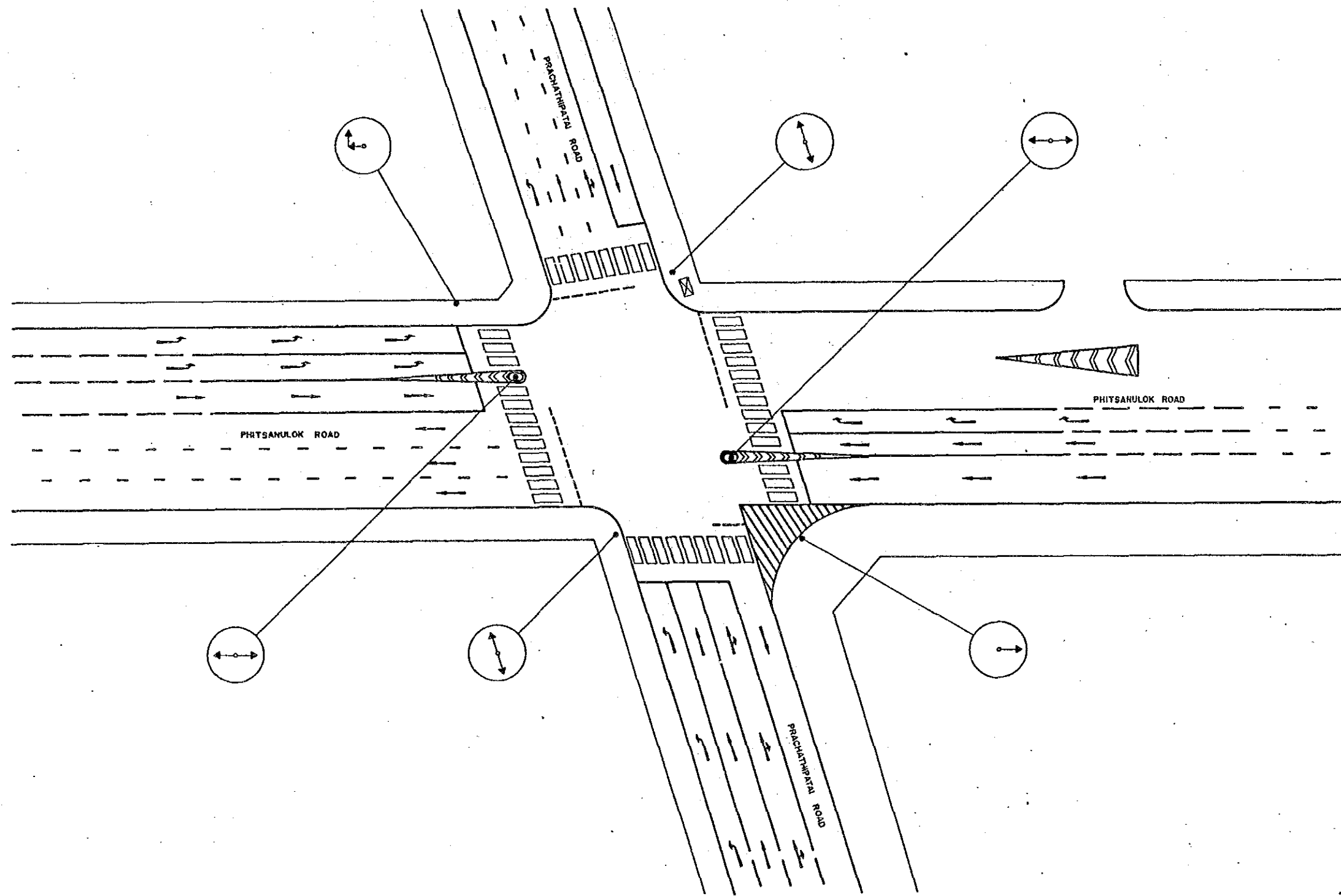
				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By : <i>[Signature]</i>	
				SAMSEN - SI AYUTTHAYA		Approved By : <i>[Signature]</i>	
				INTERSECTION NO 71		JICA Study Team Leader	
						BMA Study Team Leader	
Code	Survey	Date	Initial	JICA	BMA	Scale	1 / 250
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	Date	SEPTEMBER '90
						Drawing No	5071
						Total	50 / 143



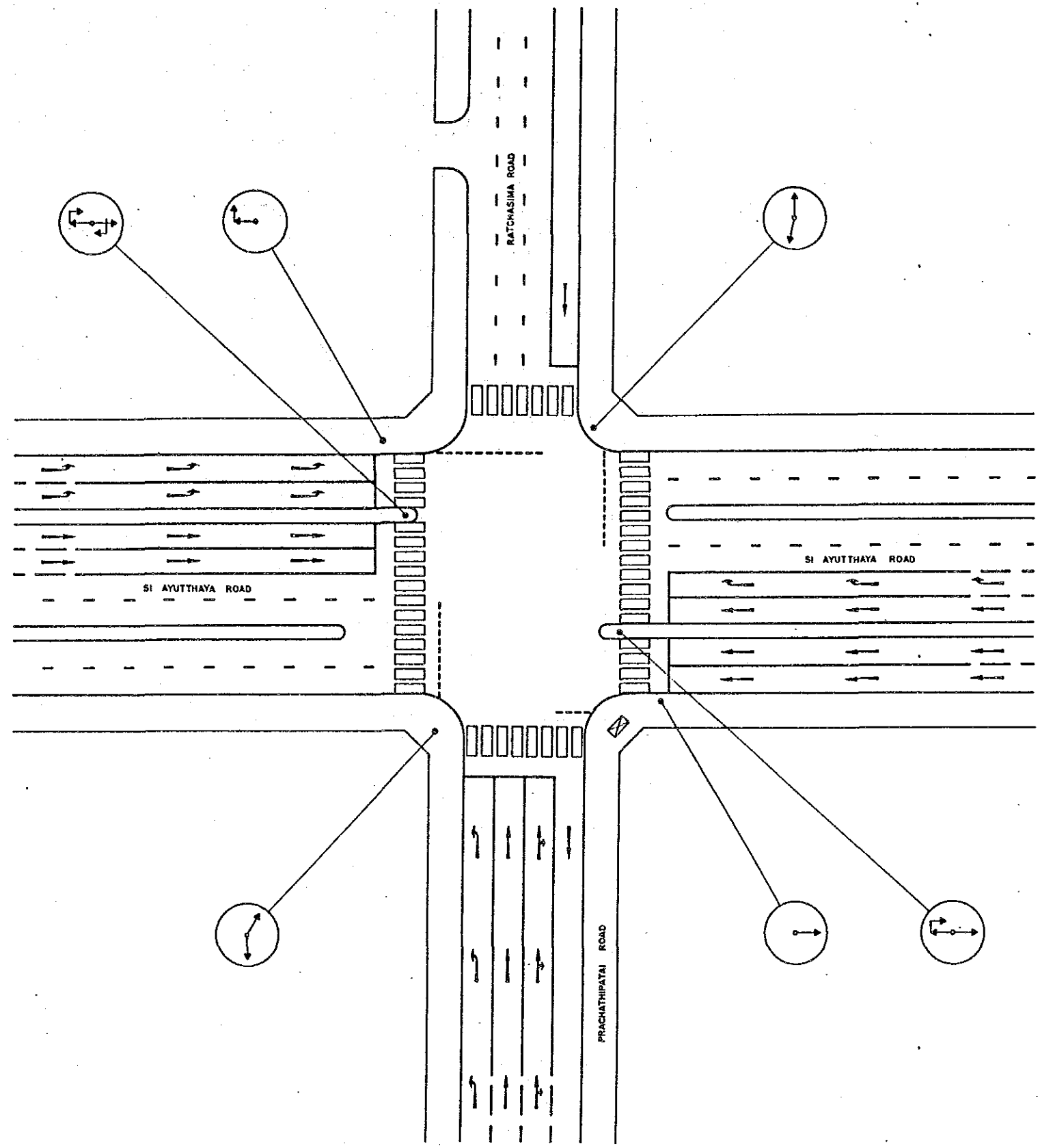
				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
				SAMSEN-KRUNG KASEM		Jiro Kodera JICA Study Team Leader	<i>[Signature]</i> Sangyoon Tates BMA Study Team Leader
				INTERSECTION NO			
				72			
Code	Survey	Date	Initial	JICA	BMA	Scale	Drawing No
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	1 / 250	5072
						Date	Total
						SEPTEMBER '90	51 / 143



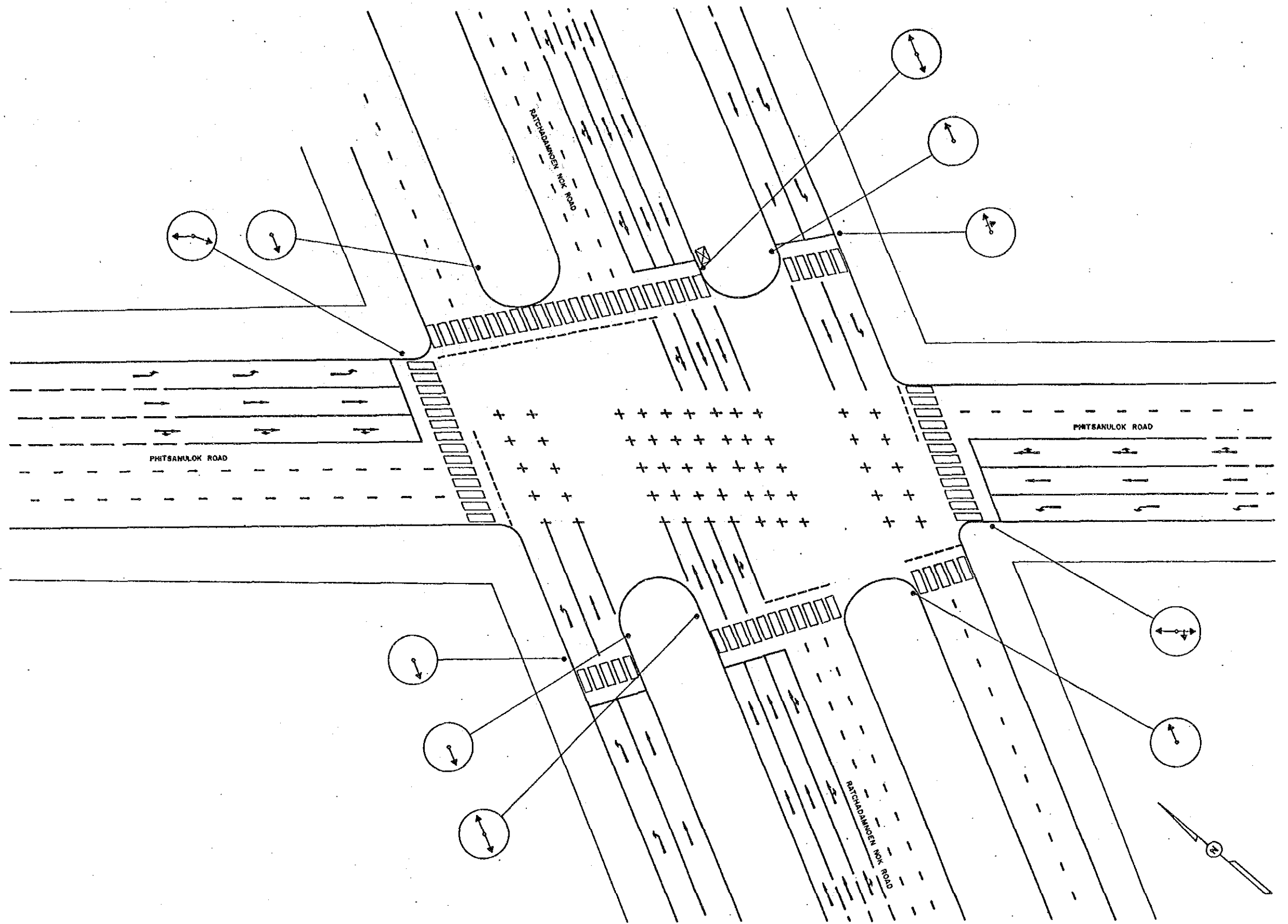
				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
				BAMRUNG MUANG - BORIPHAT		Jiro Kodera JICA Study Team Leader	<i>[Signature]</i> Sasayawal Tiptua BMA Study Team Leader
				INTERSECTION NO 73			
Code	Survey	Date	Initial	JICA	BMA	Scale	Drawing NR
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	1 / 250	5073
						Date	Total
						SEPTEMBER '90	52 / 143



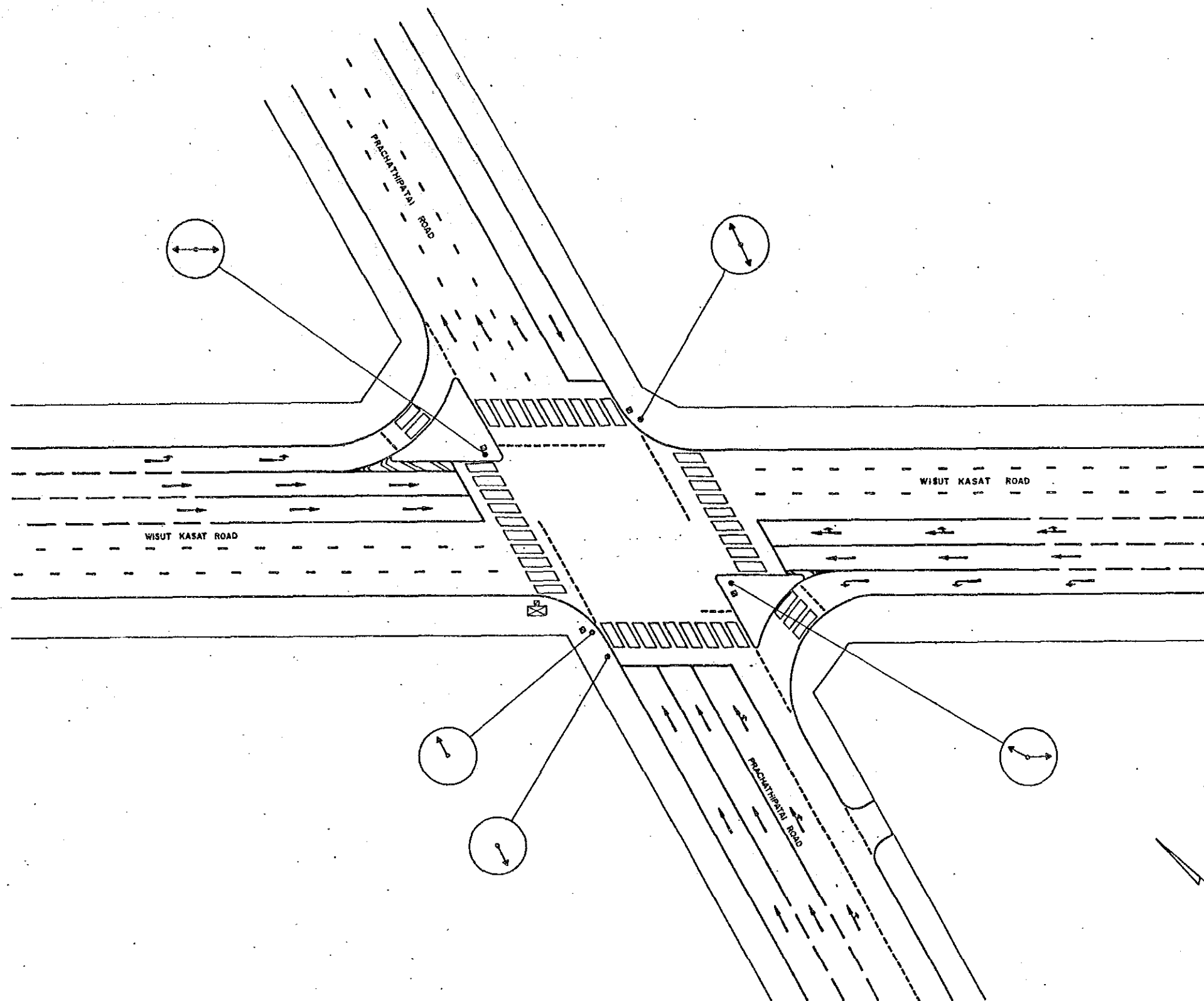
				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
				PHITSANULOK - PRACHATHIPATAI		Jure Katera JICA Study Team Leader	<i>[Signature]</i> Somyawat Tiptus BMA Study Team Leader
				INTERSECTION NO 74			
Code	Survey	Date	Initial	JICA	BMA	Scale	Drawing NO
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	1 / 250	5074
						Date	Total
						SEPTEMBER '90	53 / 143



				<b>BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I</b>			
				<b>INTERSECTION EXISTING LAYOUT</b>		Submitted By : <i>Juro Kodera</i> JICA Study Team Leader	
				<b>RATCHASIMA - SI AYUTTHAYA</b>		Approved By : <i>Juro Kodera</i> Managerial Officer BMA Study Team Leader	
				<b>INTERSECTION NO 75</b>			
Code	Survey	Date	Initial	<b>JICA</b>	<b>BMA</b>	Scale	Drawing No
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	1/250	5075
						Date	Total
						SEPTEMBER '90	54 / 143

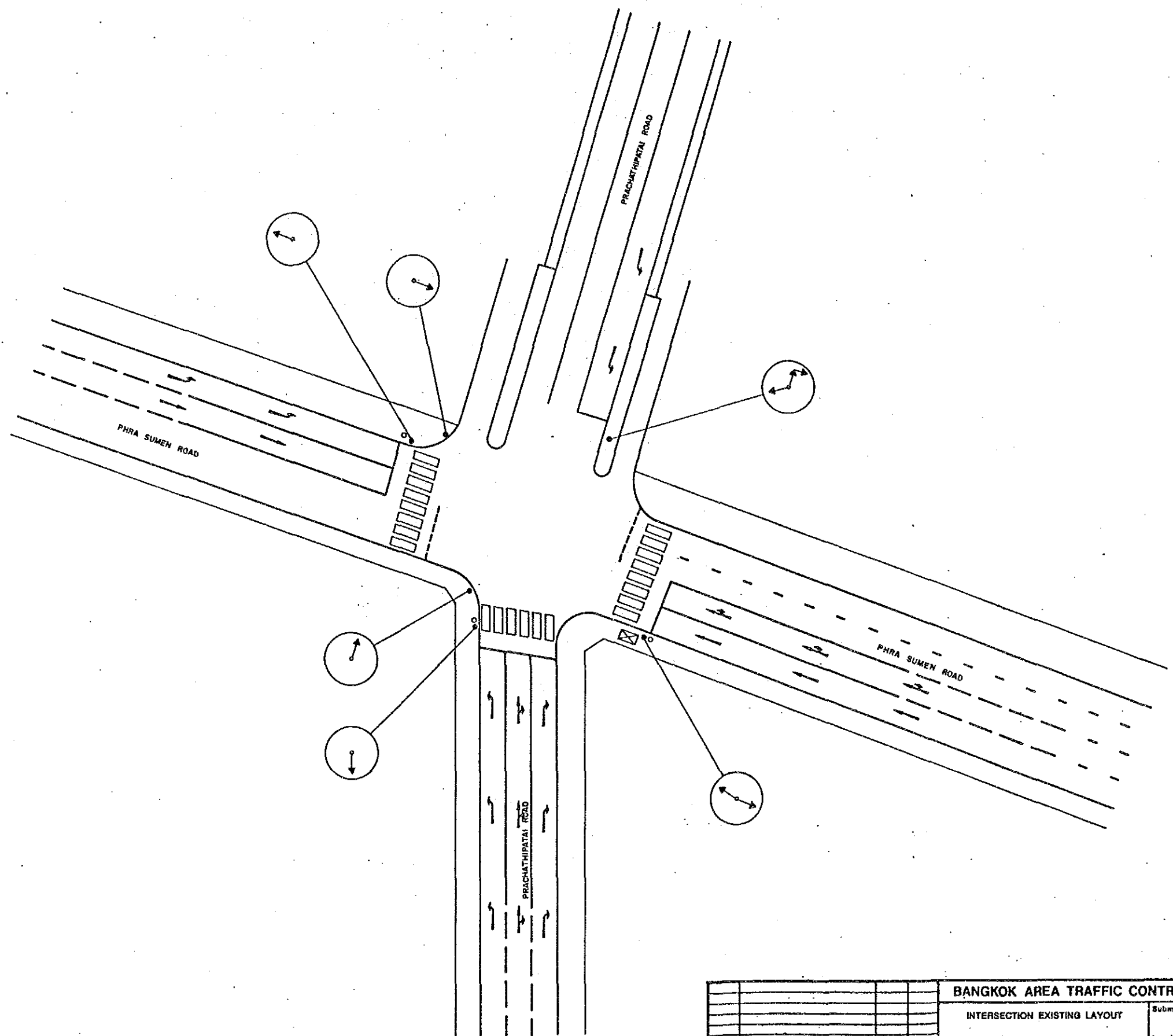


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By : Jiro Kodera JICA Study Team Leader	Approved By : <i>[Signature]</i> Somyawat Tipton SMA Study Team Leader
RATCHADAMNOEN NOK-PHITSANULOK			
INTERSECTION NO 76			
Code	Survey	Date	Editor
Associated Plan No. 1	JICA Japan International Cooperation Agency	SMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER '90 Drawing No 5076 Total 55 / 143

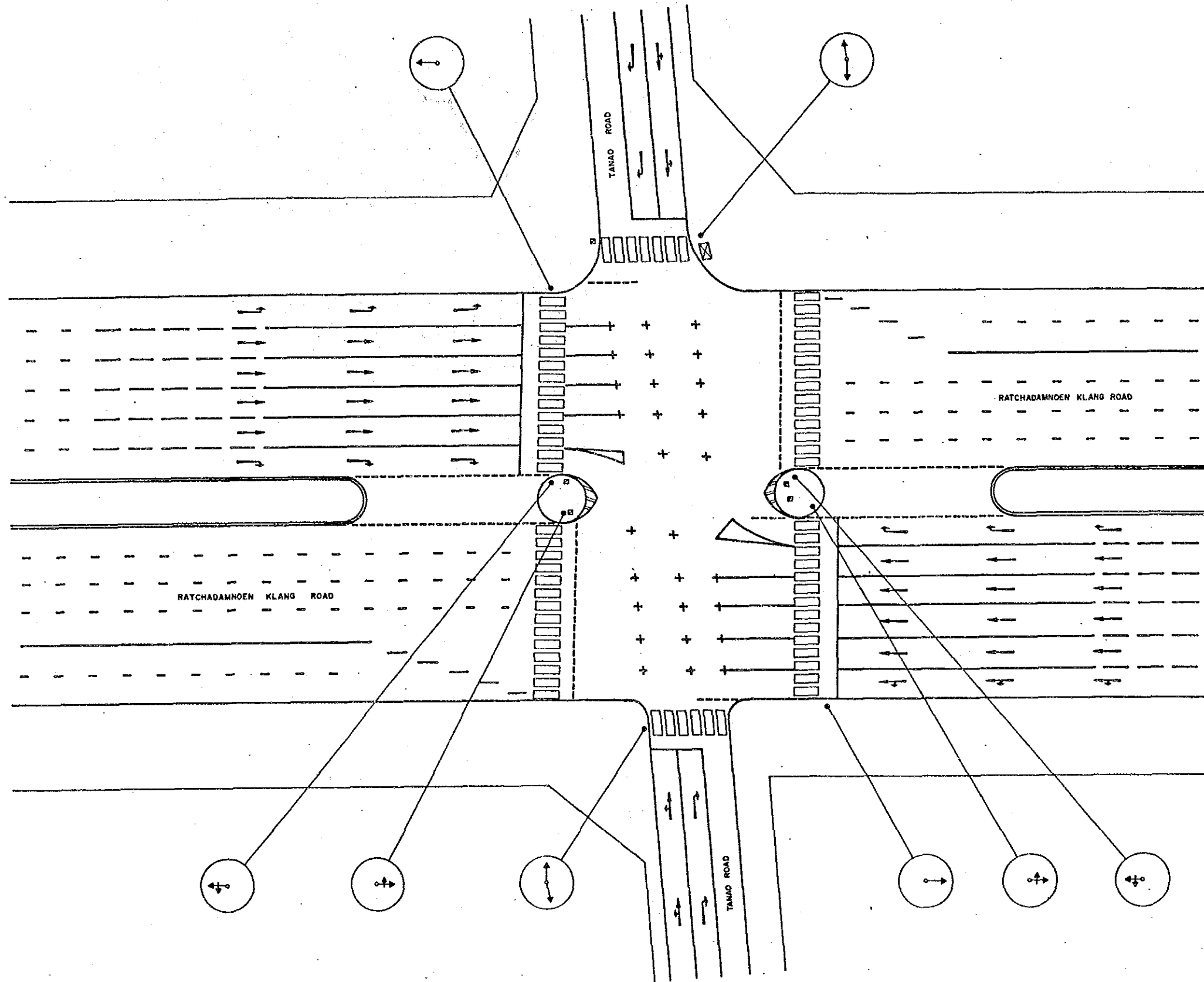


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By : Jura Kudsas JICA Study Team Leader	Approved By : Koonponat Thiras BMA Study Team Leader
PRACHATHIPATAI - WISUT KASAT			
INTERSECTION NO 77			
Code	Survey	Date	Entered
Associated Plan No. 1		JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration
		Scale 1/250	Drawing No 5077
		Date SEPTEMBER '90	Total 56 / 143

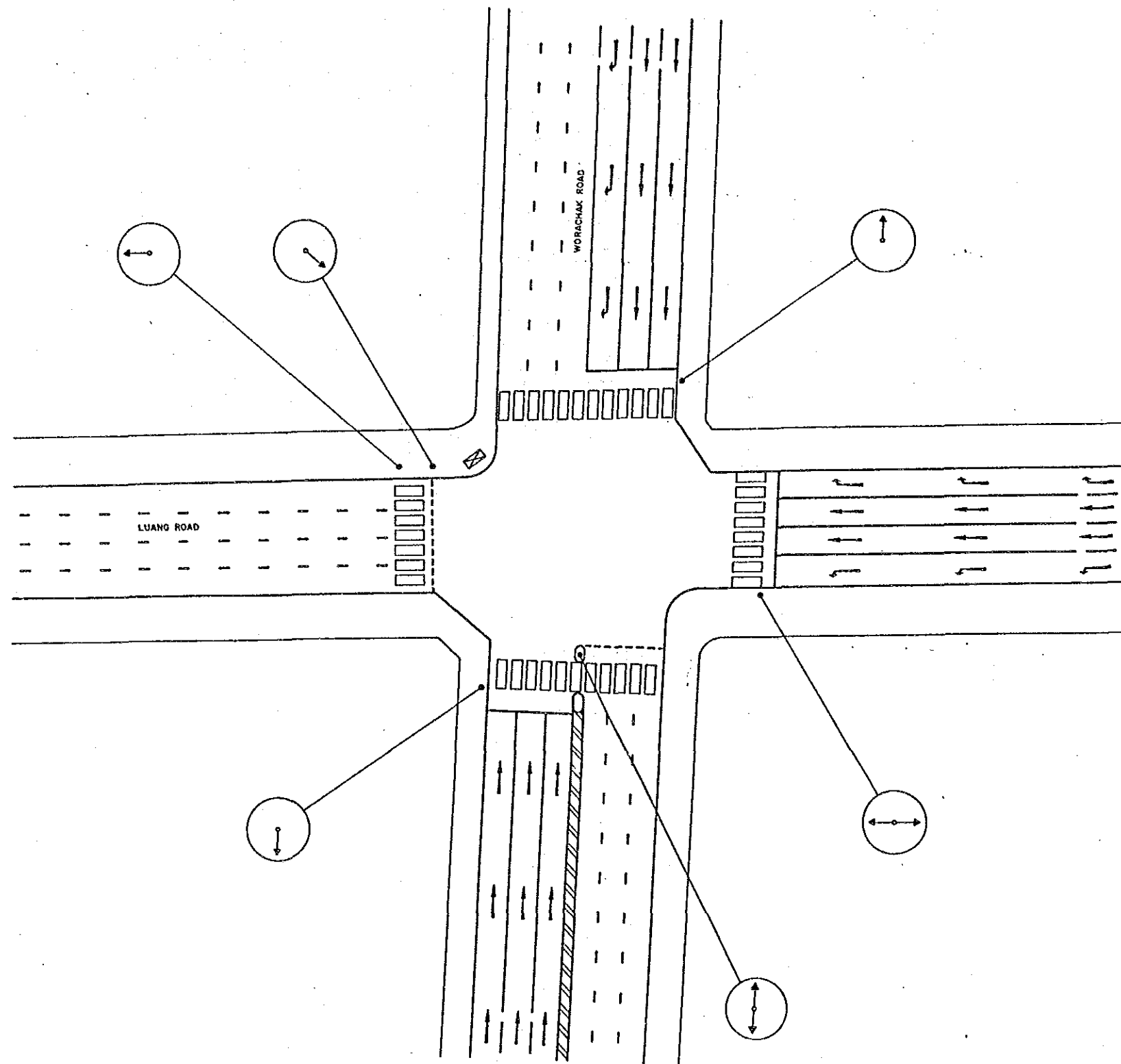




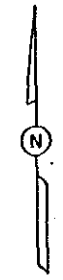
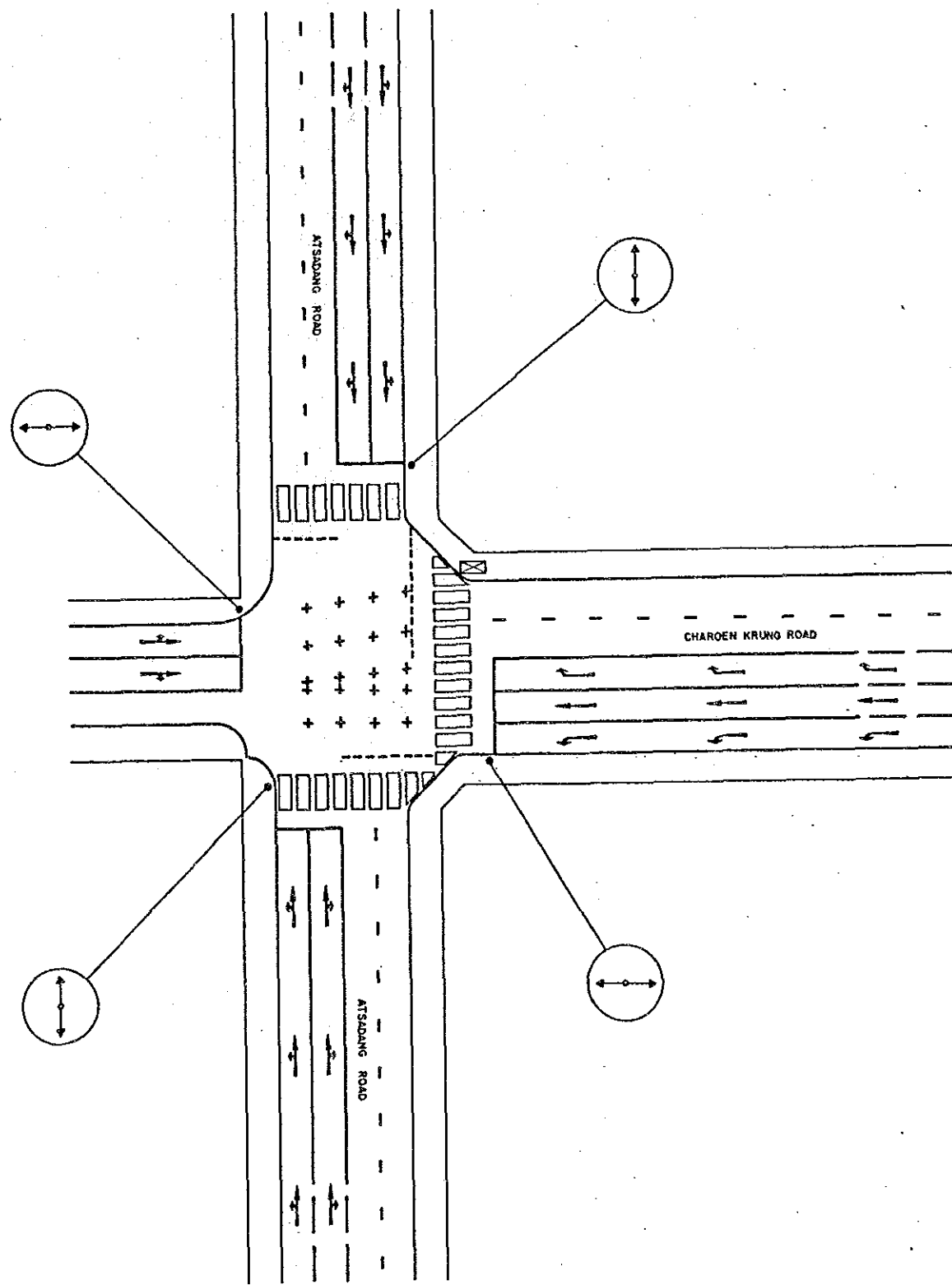
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
PRACHATHIPATAI--PHRA SUMEN		Jiro Kodera JICA Study Team Leader	<i>[Signature]</i> Kosonmat Tiplua BMA Study Team Leader
INTERSECTION NO 78			
Code	Survey	Date	Initial
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER '60 Drawing NR 5078 Total 57 / 143



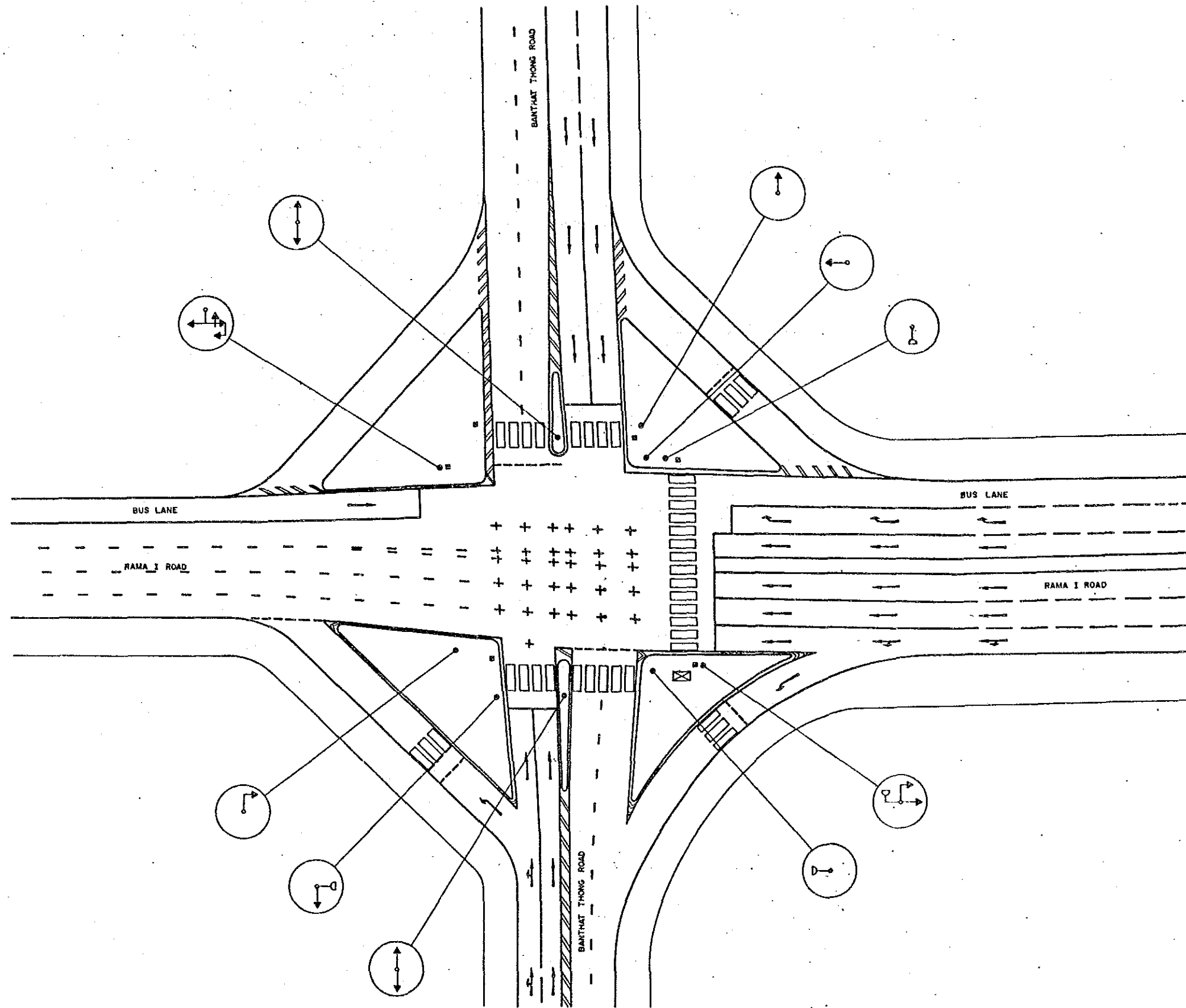
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
TANAO - RATCHADAMNOEN KLANG		Juta Kudsia JICA Study Team Leader	Boonyawat Tiptus BMA Study Team Leader
INTERSECTION, N2		79	
Code	Survey	Date	Initial
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER '90 Drawing N2 5079 Total 58 / 143



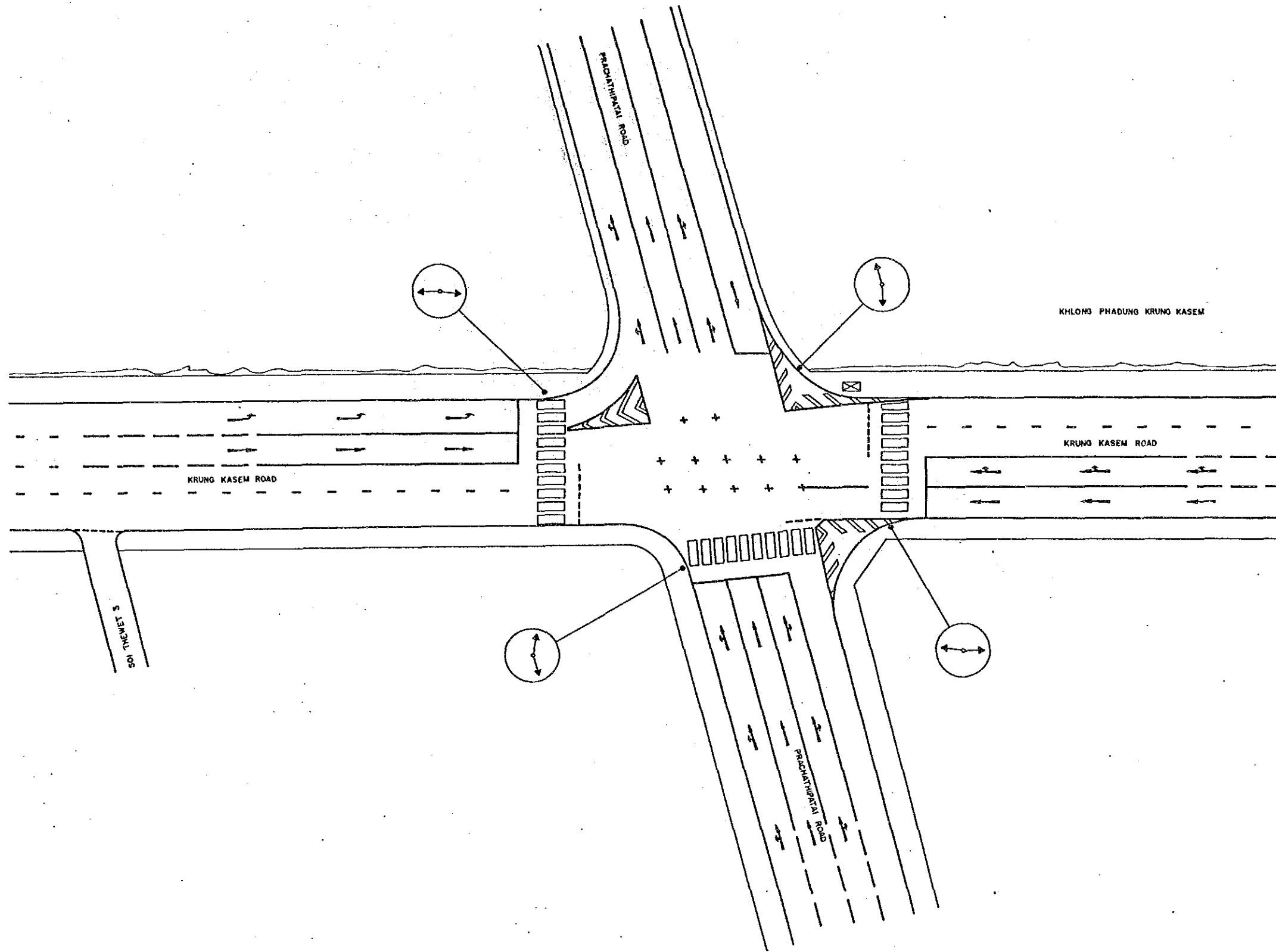
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
WORACHAK - LUANG		Jiro Kodera JICA Study Team Leader	Boonwatt Titus BMA Study Team Leader
INTERSECTION NO 80			
Code	Survey	Date	Initial
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Drawing NR 5080 Date SEPTEMBER '90 Total 59 / 143



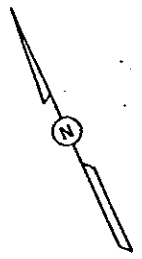
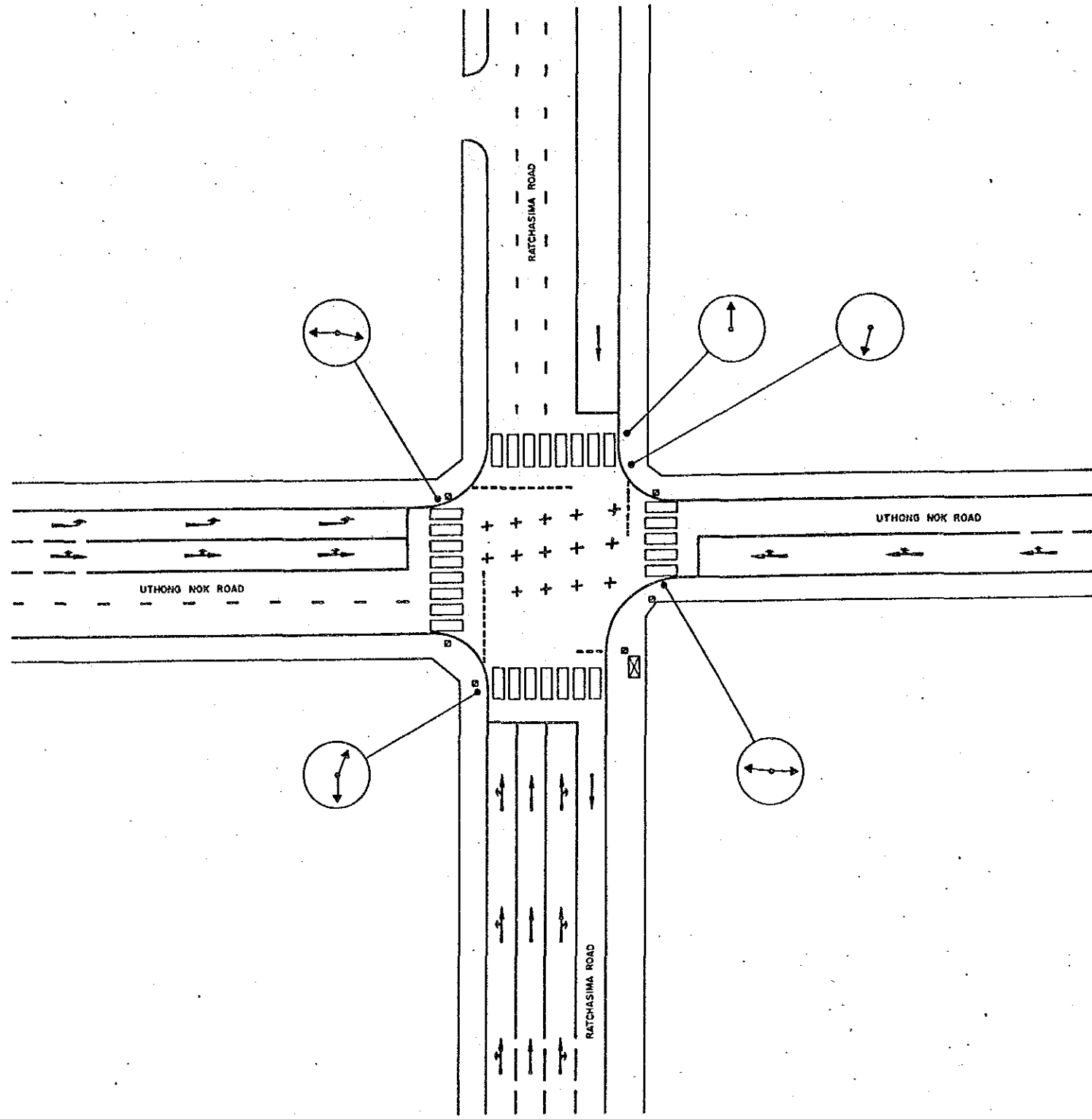
				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
				ATSADANG - CHAROEN KRUNG		Jiro Kodera JICA Study Team Leader	<i>[Signature]</i> Boonyawat Tiptua BMA Study Team Leader
				INTERSECTION NO	81		
Code	Survey	Date	Initial	JICA	BMA	Scale	Drawing NR
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	1 / 250	5081
						Date	Total
						SEPTEMBER '90	60 / 143



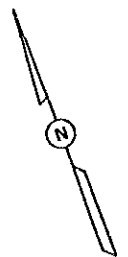
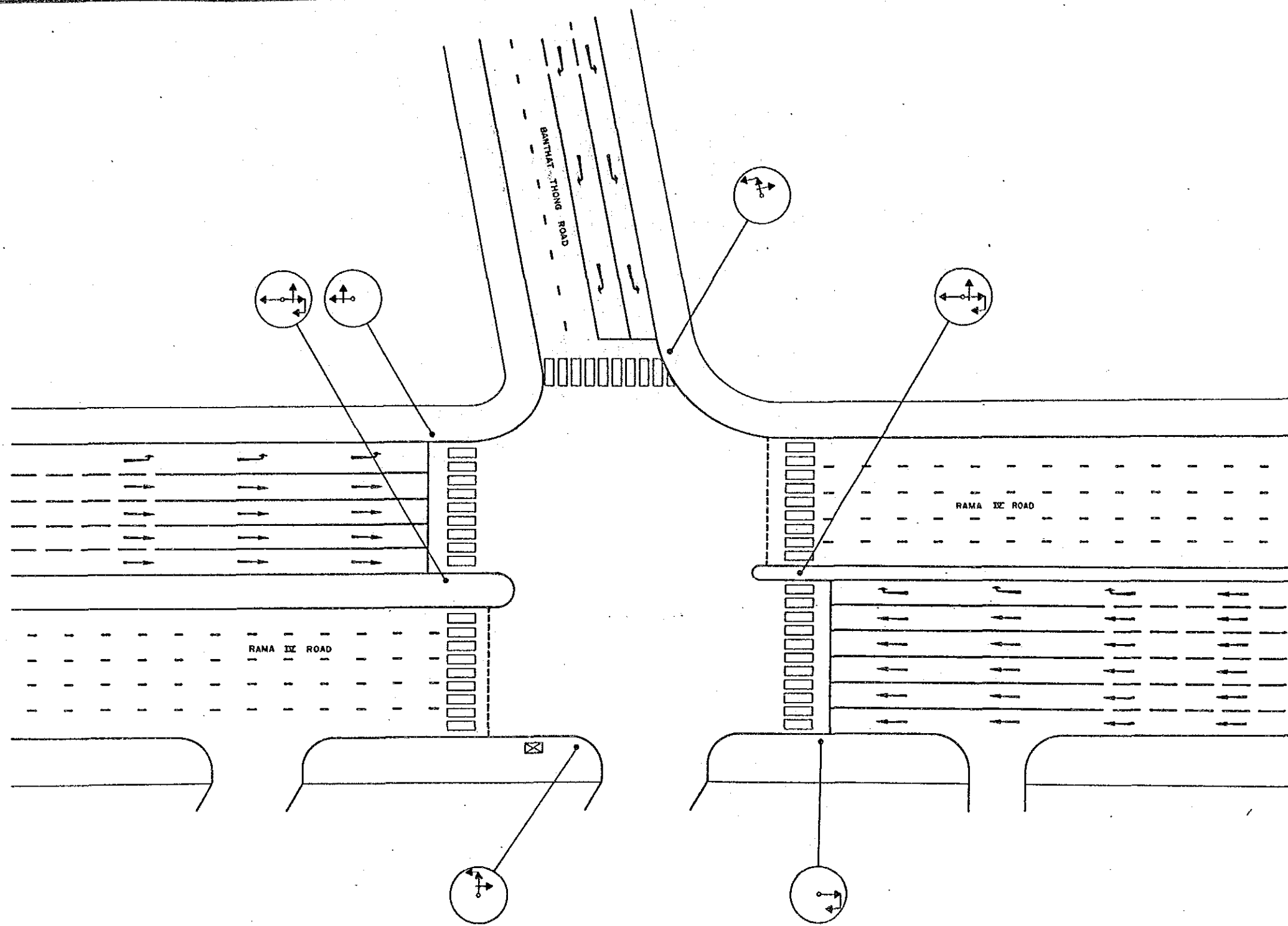
				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By : Jira Kodera JICA Study Team Leader	
				BANTHAT THONG - RAM I		Approved By : Somyawat Tipus BMA Study Team Leader	
				INTERSECTION NO 82			
Code	Survey	Date	Initial	JICA	BMA	Scale	Drawing NB
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	1 / 250	5082
						Date	Total
						SEPTEMBER '90	61 / 143



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I				
INTERSECTION EXISTING LAYOUT			Submitted By :	Approved By :
PRACHATHIPATAI - KRUNG KASEM			Jura Kedara JICA Study Team Leader	Boonyawat Thira BMA Study Team Leader
INTERSECTION NO 63				
Code	Survey	Date	Initial	
Associated Plan No. :		JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER '90 Drawing No 5083 Total 62 / 143

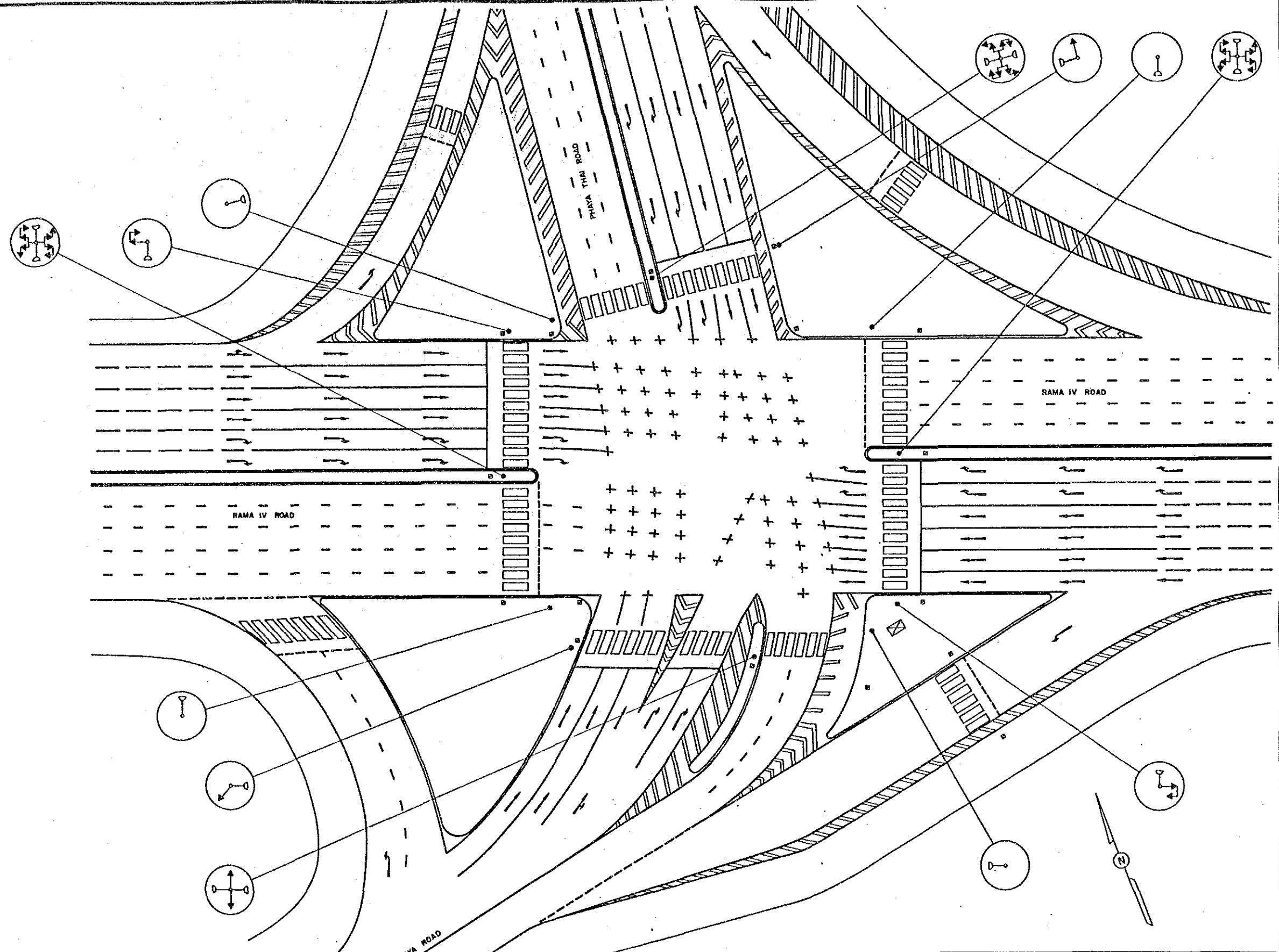


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
RATCHASIMA - UTHONG NOK		Jiro Kodera JICA Study Team Leader	Manjwal Tiwari BMA Study Team Leader
INTERSECTION NO 84			
Code	Survey	Date	Initial
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1/250 Date SEPTEMBER '80
			Drawing NO 5084 Total 63 / 143

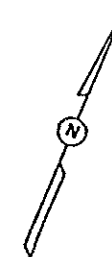
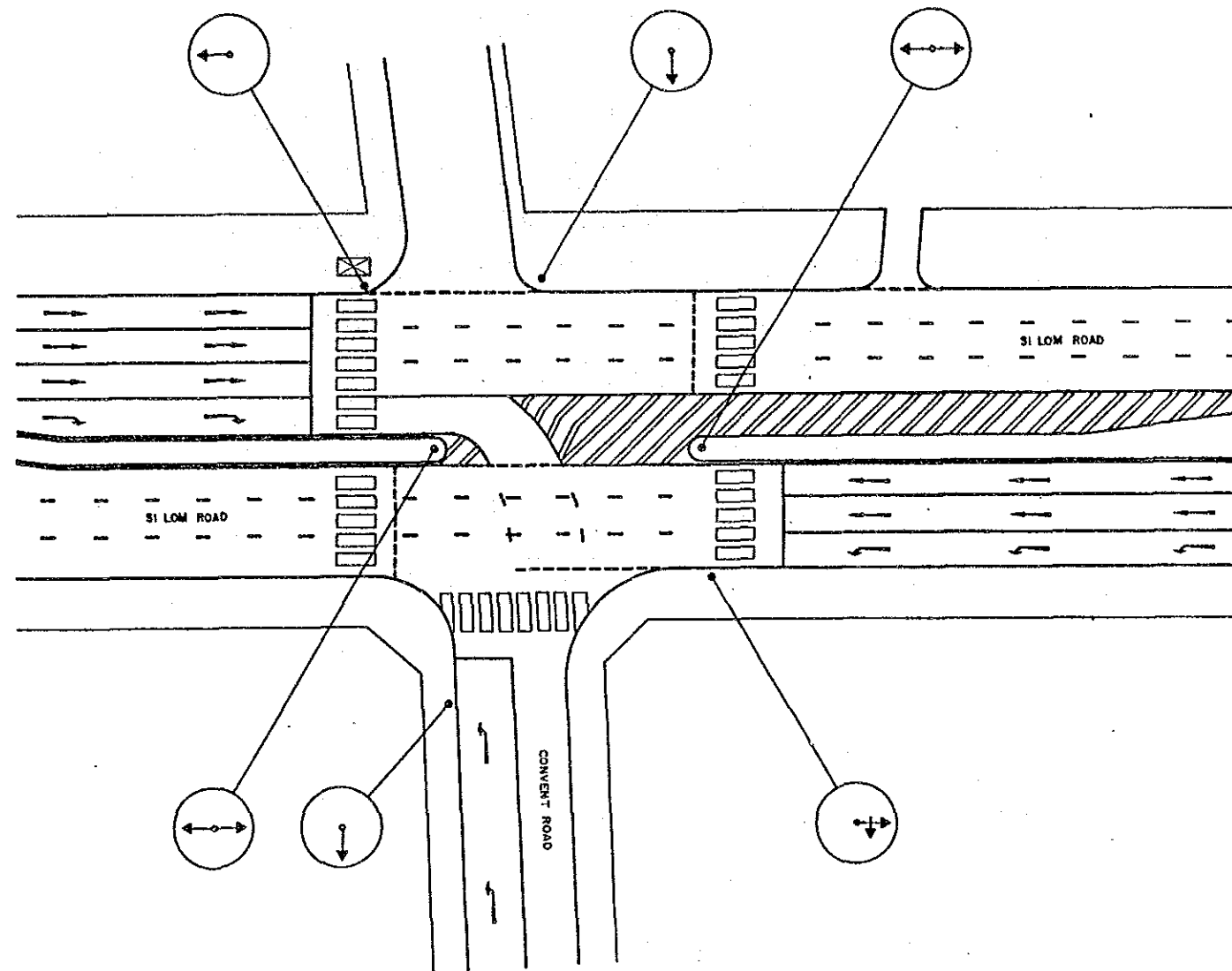


				BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
				INTERSECTION EXISTING LAYOUT		Submitted By :	
				RAMA IV - BANTHAT THONG		 Jiro Kodera JICA Study Team Leader	
				INTERSECTION NO 87		 Boonyawat Tiptas BMA Study Team Leader	
Code	Survey	Date	Initial	JICA	BMA	Scale	1 / 250
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	Drawing NR	5087
				Date	SEPTEMBER '80	Total	64 / 143

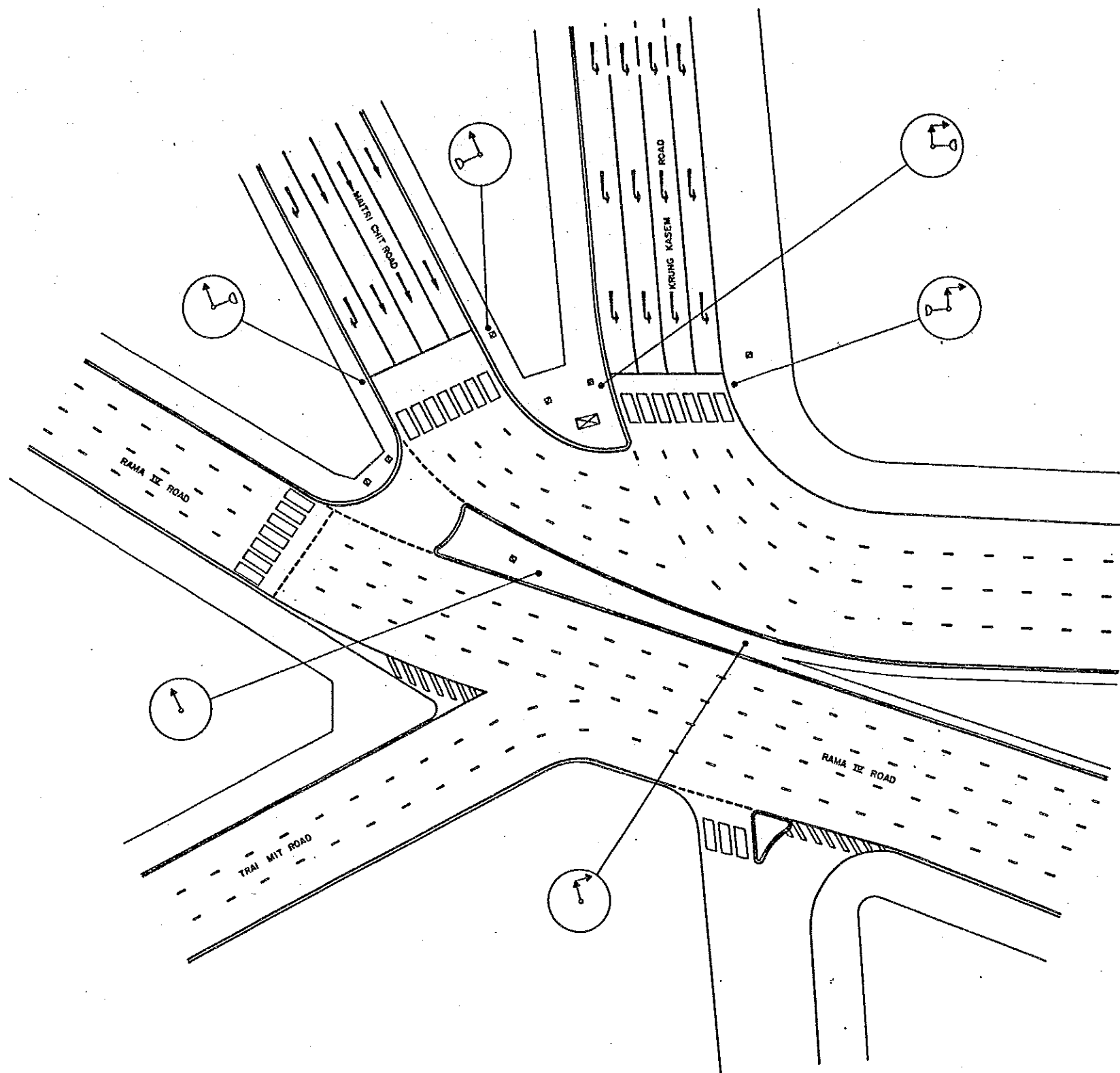




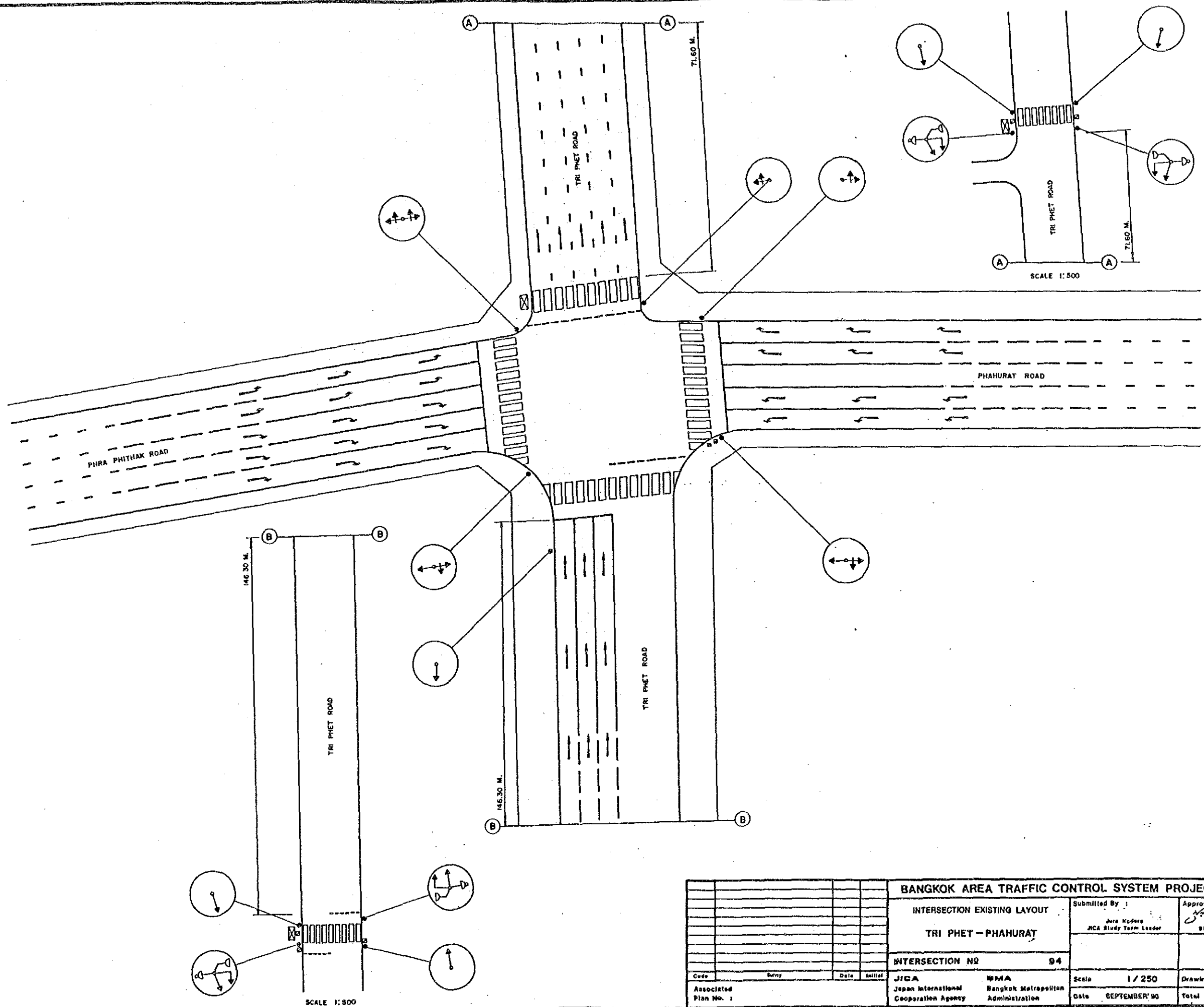
				<b>BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I</b>			
				<b>INTERSECTION EXISTING LAYOUT</b>		Submitted By : <i>Jiro Kodera</i> JICA Study Team Leader	
				<b>PHAYA THAI-RAMA IV-SI PHRAYA</b>		Approved By : <i>Boonyarat Titlus</i> BMA Study Team Leader	
				<b>INTERSECTION NO 88</b>			
Code	Survey	Date	Initial	<b>JICA</b> Japan International Cooperation Agency		<b>BMA</b> Bangkok Metropolitan Administration	
Associated Plan No. :				Scale 1 / 250		Drawing No 5088	
				Date SEPTEMBER '80		Total 65 / 143	



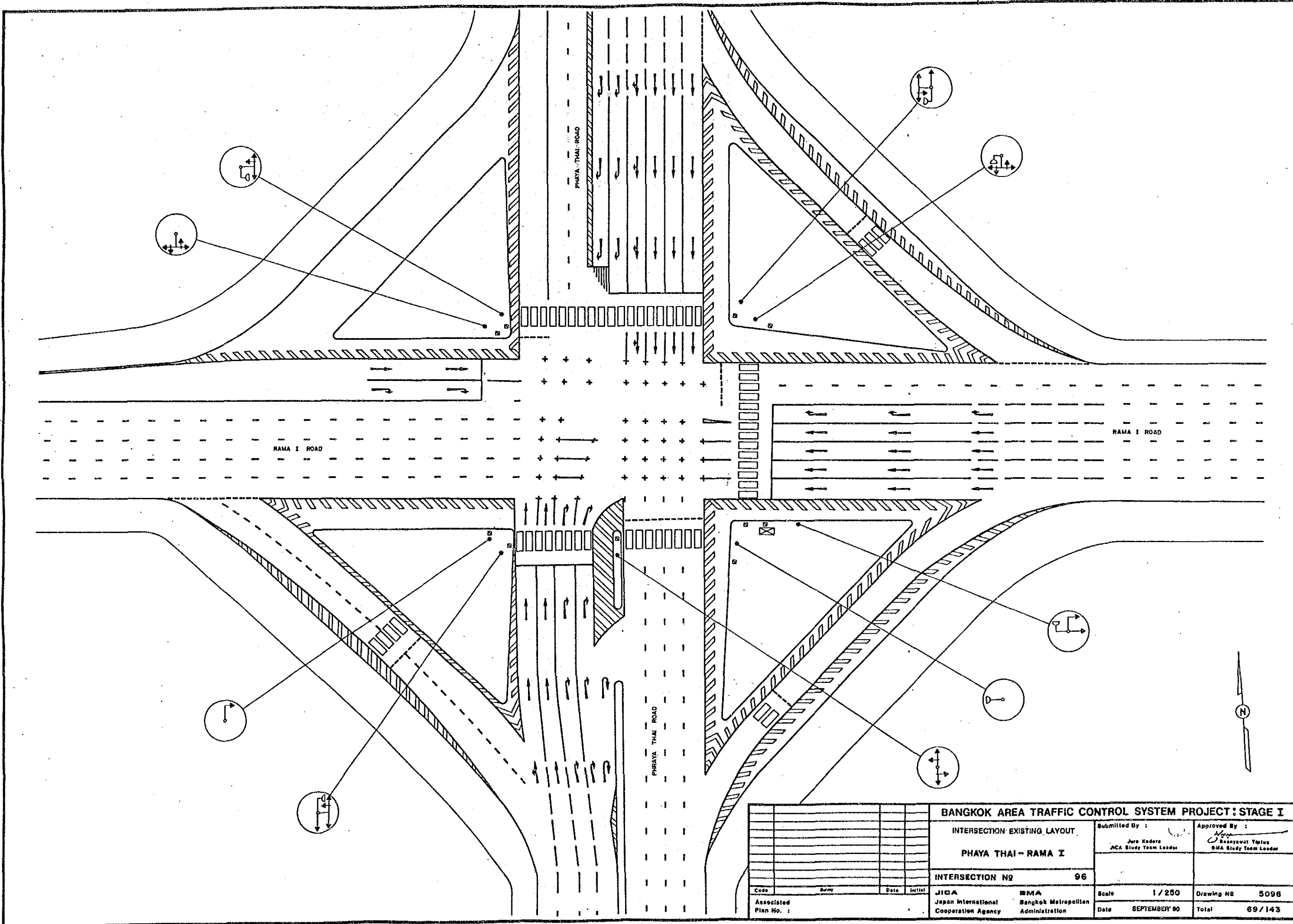
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
SI LOM - CONVENT		Jiro Kodata JICA Study Team Leader	<i>[Signature]</i> Seeyawot Tipta BMA Study Team Leader
INTERSECTION NO		89	
Code	Date	Initial	
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date : SEPTEMBER '90
		Drawing NO	5089
		Total	66 / 143



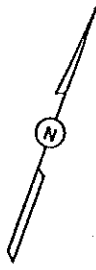
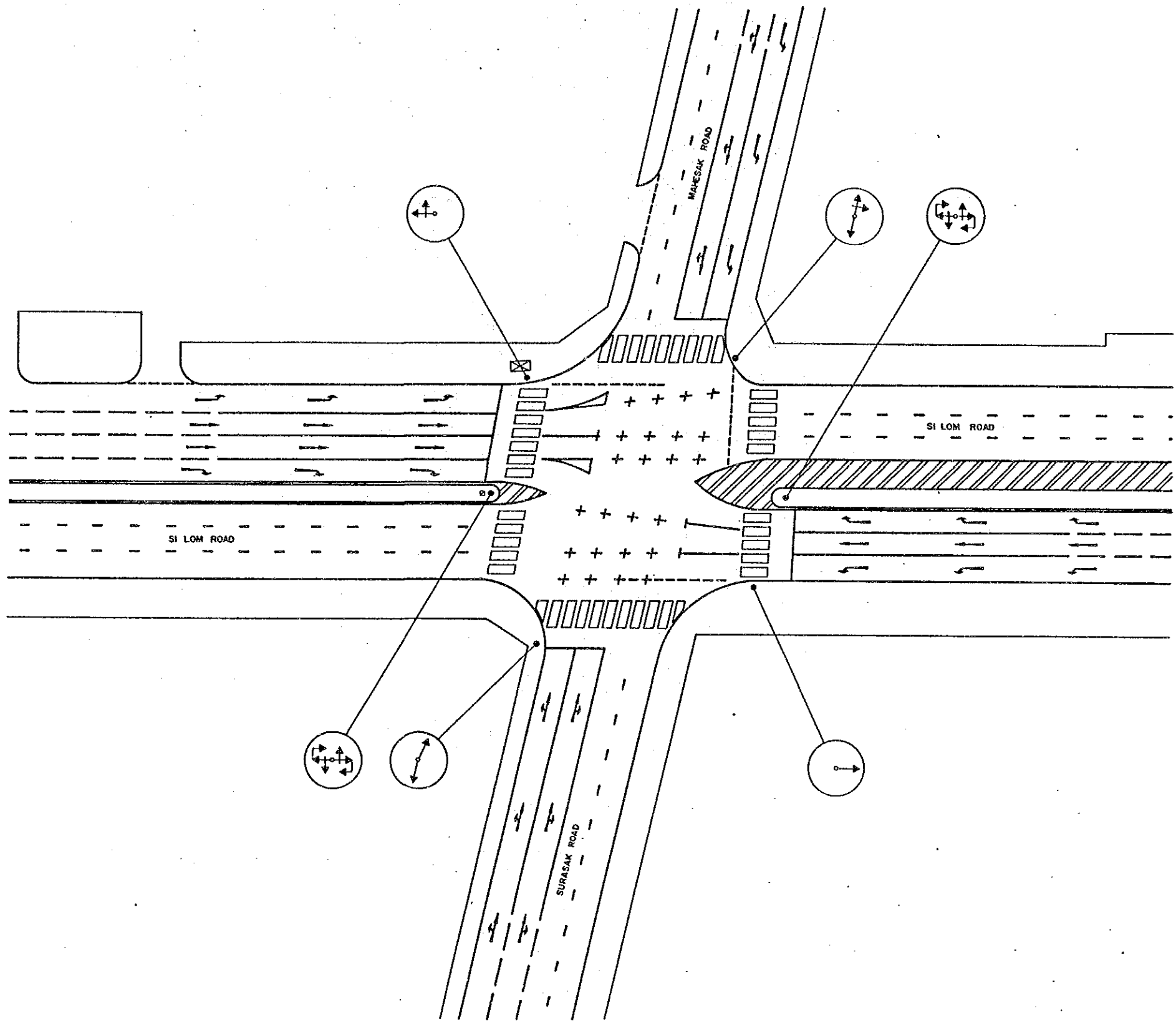
				<b>BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I</b>			
				<b>INTERSECTION EXISTING LAYOUT</b>		Submitted By :	Approved By :
				<b>KRUNG KASEM - MAITRI CHIT - RAMA IV - TRAI MIT</b>		Jiro Kudara JICA Study Team Leader	<i>[Signature]</i> Sourawat Tulas BMA Study Team Leader
				<b>INTERSECTION NO</b>		93	
Code	Drawn	Date	Initial	JICA	BMA	Scale	Drawing No
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	1/250	5093
						Date	Total
						SEPTEMBER '80	67 / 143



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
TRI PHET - PHAHURAT		Jaro Kudera JICA Study Team Leader	Seanyawat Tiplua BMA Study Team Leader
INTERSECTION NO 94			
Code	Survey	Date	Initial
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER '90
			Drawing No 5094 Total 68 / 143

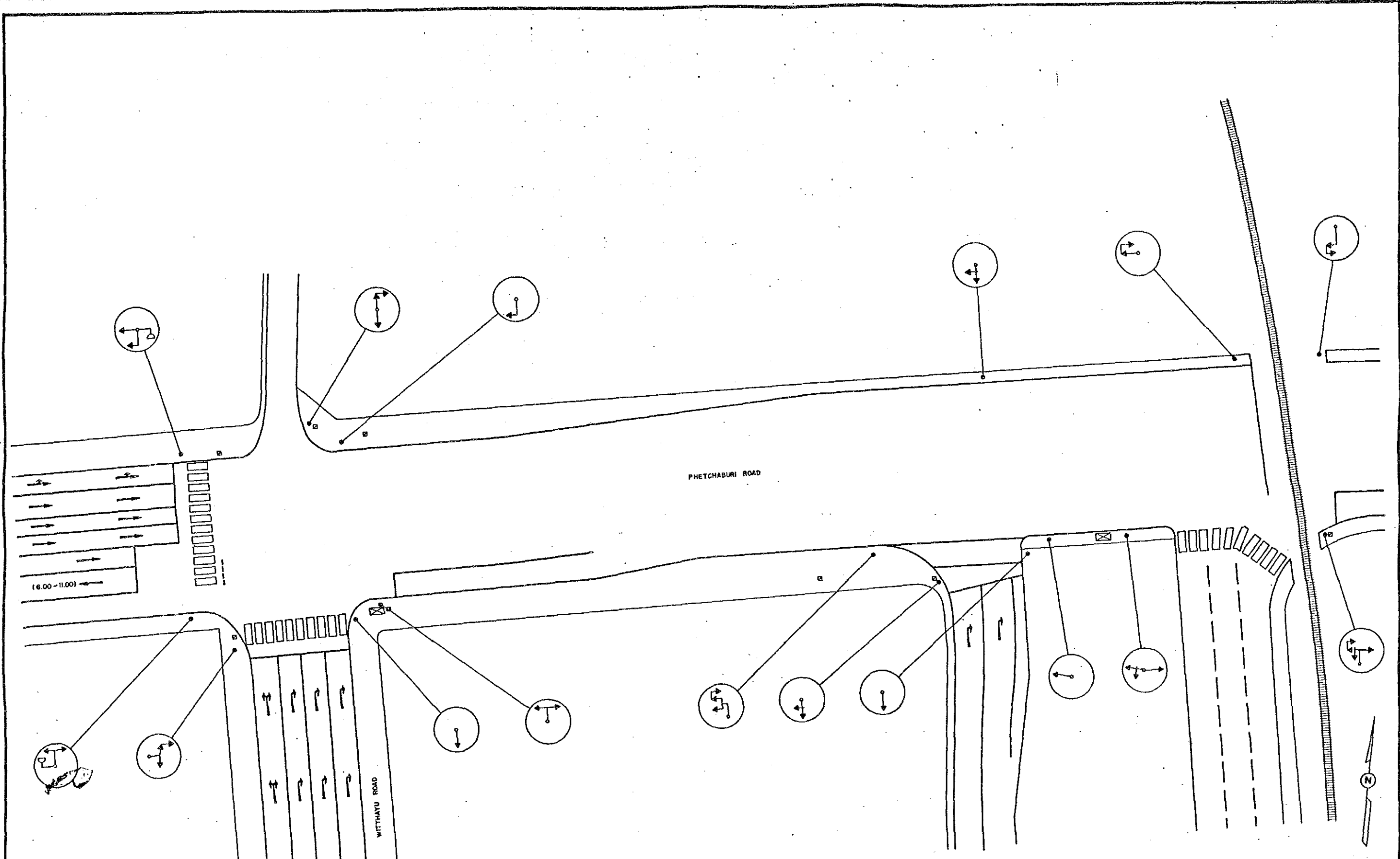


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I									
INTERSECTION: EXISTING LAYOUT						Submitted By :		Approved By :	
PHAYA THAI - RAMA I						Jorn Kodera JICA Study Team Leader		Sanyawat Tapas BMA Study Team Leader	
INTERSECTION NO						96			
Code	Survey	Date	Initial	JICA	BMA	Scale	1 / 250	Drawing No	5098
Associated Plan No. :				Japan International Cooperation Agency	Bangkok Metropolitan Administration	Date	SEPTEMBER '80	Total	69 / 143



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BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
INTERSECTION EXISTING LAYOUT		Submitted By :	Approved By :
SI LOM - SURASAK - MAHESAK		Jorn Kodera JICA Study Team Leader	<i>[Signature]</i> Boonyarat Tipton BMA Study Team Leader
INTERSECTION NO 98			
Code	Survey	Date	Initial
Associated Plan No. :	JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale 1 / 250 Date SEPTEMBER '90 Drawing No 5098 Total 70 / 143



PHETCHABURI ROAD

WITTHAYU ROAD

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I									
INTERSECTION, EXISTING LAYOUT					Submitted By :		Approved By :		
WITTHAYU - PHETCHABURI -					Aru Kodera		Somyowal Tahir		
DIN DAENG PORT EXPRESSWAY					JICA Study Team Leader		BMA Study Team Leader		
INTERSECTION NO 99									
Code	Survey	Date	Initial	JICA	BMA	Scale	1 / 250	Drawing No.	5099
Associated				Japan International	Bangkok Metropolitan	Date	SEPTEMBER '90	Total	71 / 143
Plan No. :				Cooperation Agency	Administration				