7.6 舗装道路への改良プロジェクト

コランタ道路（UBS-1）：図7.6.1

このプロジェクトの目的は、南部地域で唯一 DOH道路システムと連結しているamphoe centerであるコランタ県へ DOH道路網を整備することである。

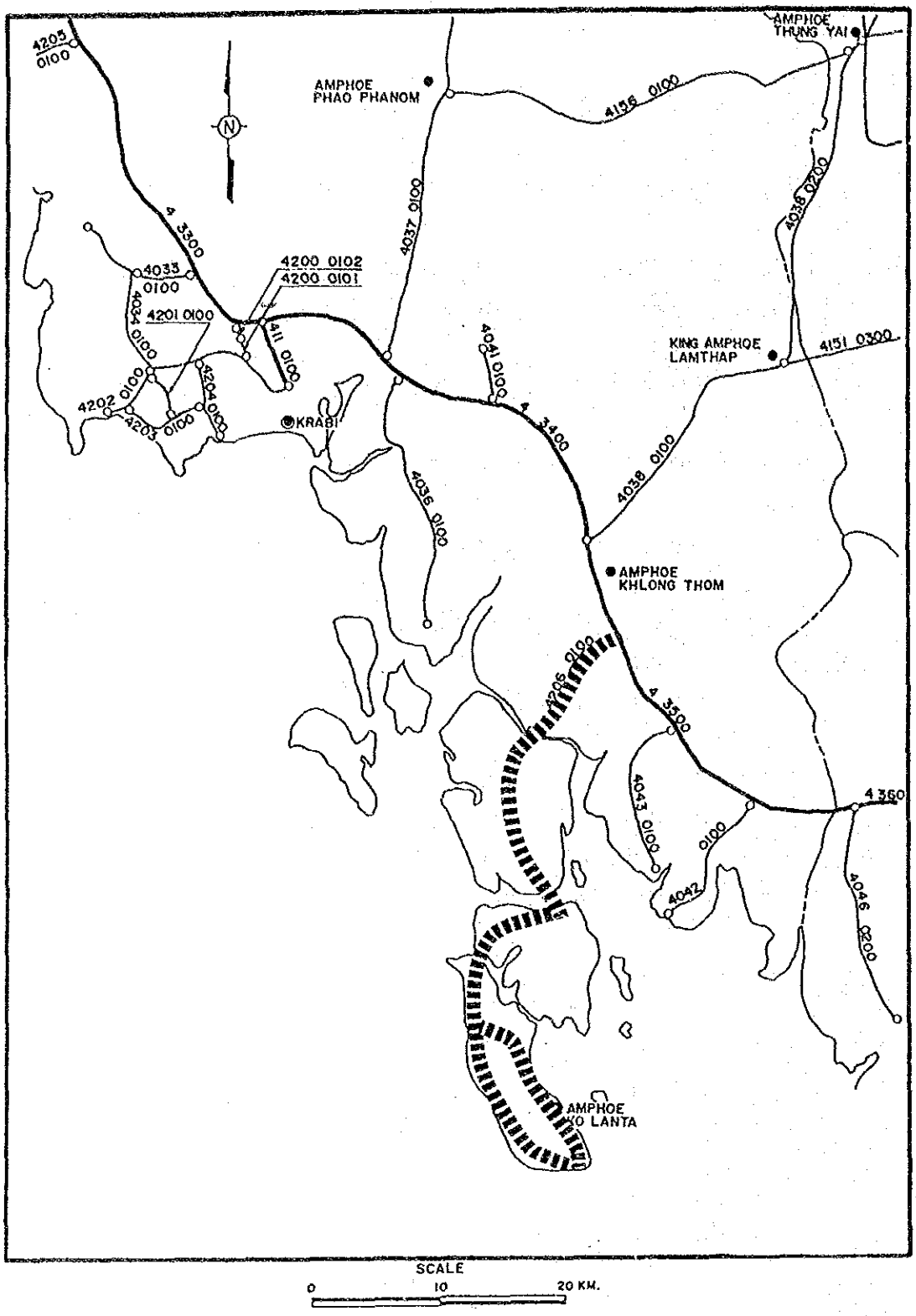
このプロジェクトとは"F3"規格であり、以下の３つの区間から構成されている。

- 県道4206号線のうち本島での10.6キロメートルの区間を舗装規準へグレイドアップ
- コランタ島とコランタノイ島の２つの島で、26.7キロメートルに及ぶ PWD道路を再建設
- コランタヤイ島での新たな道路建設と、コクラン島・コランタノイ島間(1,400メートル）およびコランタノイ島・コランタヤイ島間（500 メートル）の２区間での二長大橋建設で総延長41.4キロメートルとなる。

このプロジェクトは、バンコーヤンにある国道４号線の交差点を起点とし、コランタヤイ島のコランタ島県を終点としている。総延長は78.7キロメートルに及ぶ。島嶼間二橋の建設に投下される巨大投資額に見合うかどうかのプロジェクトの実施可能性は、将来における島での観光開発の見通しに大きく依存している。

UBS-1	Description (Pre F/S)
Changwat	: Krabi
Name or Location	: Rt.4206 Khlong Thom - Ko Lanta
Road Class	: F3 (F6)
Cross Section (m)	: 2.00+6.00+2.00 (6.00 and 4.00:PWD)
Surface Type	: SA /ASC / SA (SA and SA)
Surface Condition	:
Length: Total	: 78.7 km
DOH Road	: 10.1 km + 41.6 km:New
Others	: 27.0 km:PWD
AADT<'96/'01/'06>	: dependent on tourism development
Financial Cost	: 804.0 million baht
EIRR	: 12%-22%

( ): Existing Condition or Value



LEGEND :

▮▮▮▮▮▮▮▮	PROJECT ROUTE	———	PROVINCIAL HIGHWAYS
═══	DIVIDED HIGHWAYS	◉ ●	CHANGWAT , AMPHOE
———	NATIONAL HIGHWAYS		

図 7.6.1　コランタ・リンク (UBS-1)

付録;
第　1　章

A.1.1.1 仕様書

SCOPE OF WORK

FOR

THE ROAD DEVELOPMENT STUDY IN THE SOUTHERN REGION

IN

THE KINGDOM OF THAILAND

AGREED UPON BETWEEN

MINISTRY OF TRANSPORT AND COMMUNICATIONS

DEPARTMENT OF HIGHWAYS

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

BANGKOK, October 12th,1989

Mr. SONGSAWASDI DUANGRATANA
DEPUTY DIRECTOR GENERAL
DEPARTMENT OF HIGHWAYS,
MINISTRY OF TRANSPORT AND
COMMUNICATIONS

Mr. KUNIO YAMAMOTO
LEADER OF THE JAPANESE
PRELIMINARY STUDY MISSION,
JAPAN INTERNATIONAL
COOPERATION AGENCY

I. INTRODUCTION

In response to the request of the Government of the Kingdom of Thailand, the Government of Japan has decided to conduct the Road Development Study in the Southern Region in the Kingdom of Thailand (hereinafer referred to as "the Study"), within the general framework of technical cooperation between Japan and Thailand, which is set forth in the Agreement on Technical Cooperation between the Government of Japan and the Government of Thailand, signed on November 5, 1981.

Accordingly, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programmes of the Government of Japan, will undertake the Study, in accordance with the relevant laws and regulations in force in Japan and in close cooperation with the authorities of Thailand.

Department of Highways (hereinafter referred to as "DOH") shall act as counterpart agency to the Japanese Study Team and also as coordinating body in relation with other relevant organizations for the smooth conducting of the Study.

The presnet document sets forth the Scope of Work for the Study.

II. OBJECTIVES OF THE STUDY

1. To establish a master plan for road networks and to identify the needs of road development in the Southern Region from the viewpoint of national and regional development.

2. To select priority projects and to carry out feasibility study on the selected projects.

3. To carry out studies on prevention of road disasters.

4. To perform technology transfer to Thai counterpart personnel in the course of the study.

The Study includes the planning of new road construction, up-grading or widening of existing road pavement, rehabilitation, grade separation and improvement of intersections.

III. SCOPE OF THE STUDY

1. Study Area

The Southern Region of the Kingdom of Thailand (14 Changwats : Chunphon, Phatthalung, Phuket, Surat Thani, Nakhon Sithammarat, Songkla, Yala, Narathiwat, Stun, Krabi, Ranong, Pattani, Phang Nga).

The road networks to be studied consist of National Highways, Provincial Roads and all other roads which are or will be under the jurisdiction of DOH in the Southern Region.

2. Items of the Study

In order to achieve the objectives mentioned above, the Study shall cover the following items:

2-1 Review of the related development plans, socio-economic data, transport sectoral data and natural conditions

2-2 Analysis of socio-economic framework and identification of development potential of the Region

2-3 Identification of the role of road transport through consideration of transport demand by all modes in the Region

2-4 Overall review of fundamental transport facilities with a stress on road transport facilities

2-5 Investigation of road disaster prevention

2-6 Identification of comprehensive needs of road development

2-7 Establishment of a master plan for the road networks

2-8 Screening of priority projects

2-9 Performing of feasibility study for selected priority projects according to the following items:

(1) Socio-economic and traffic survey;
(2) Engineering survey including route location survey;
(3) Traffic projection;
(4) Design and cost estimation for construction;
(5) Calculation of benefits and economic evaluation;
(6) Implementation programming

IV. STUDY SCHEDULE

The study will be carried out in accordance with the attached tentative schedule.

V. REPORT

JICA shall prepare the follwoing reports in English and submit them to DOH.

1. Inception Report (30 copies)
   Inception Report will be submitted within two(2) months of the commencement of the Study.

2. Interim Report (30 copies)
   Interim Report will be submitted within seven(7) months of the commencement of the Study.

3. Progress Report (30 copies)
   Progress Report will be submitted within eleven (11) months of the commencement of the Study.

4. Draft Final Report (30 copies)
   Draft Final Report will be submitted within fifteen(15) months of the commencement of the Study.
   DOH shall provide JICA its comments within one(1) month after the submission of Draft Final Report.

5. Final Report (60 copies)
   Final Report will be submitted within two (2) months after the receipt of the comments on the Draft Final Report from the Government of the Kingdom of Thailand and will contain all the essential recommendations, results and findings of the Study.

VI. UNDERTAKING OF THE GOVERNMENT OF THE KINGDOM OF THAILAND

1. In accordance with the Agreement on Technical Cooperation between the Government of the Kingdom of Thailand and the Government of Japan dated November 5, 1981, the Government of the Kigdom of Thailand shall accord benefits to the Japanese Study Team as follows:

(1) to permit the members of the Japanese Study Team to enter, leave and sojourn in Thailand for the duration of their assignment therin and exempt them form alien registration requirements and consular fees;

(2) to exempt the members of the Japanese Study Team from taxes, duties and any other charges on equipment, machinery and other materials brought into Thailand for the conduct of the Study;

(3) to exempt the members of the Japanese Study Team from income tax and charges of any kind imposed on or in connection with any emolument or allowance paid to the members of the Japanese Study Team for their services in connection with the conducting of the Study;

(4) to bear claims, if any arises against the members of the Japanese Study Team resulting from, occuring in the course of, or otherwise connected with the discharge of their duties in the conducting of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Japanese Study Team.

2. To facilitate smooth conduct of the Study, DOH shall take necessary measures in cooperation with other relevant organizations:

(1) To secure permission for entry into private properties or restricted areas for the conduct of the Study;

(2) To secure permission for the Study Team to take all necessary data and documents related to the Study out of Thailand to Japan;

(3) To provide the medical services as needed (Its expenses will be chargeable on members of the Japanese Study Team);

(4) To ensure the safety of the members of the Japanese Study Team when and as it is required in the course of the Study.

3. DOH shall, at its own expenses, provide the Japanese Study Team with the followings:

(1) Available data and information related to the Study;

(2) Counterpart personnel;

(3) Suitable office space with office equipment in Bangkok and the study area, if necessary;

(4) Credentials or indentification cards;

(5) Soil and material testing, if required.

VII. UNDERTAKING OF JICA

For the conducting of the Study, JICA shall take the following measures:

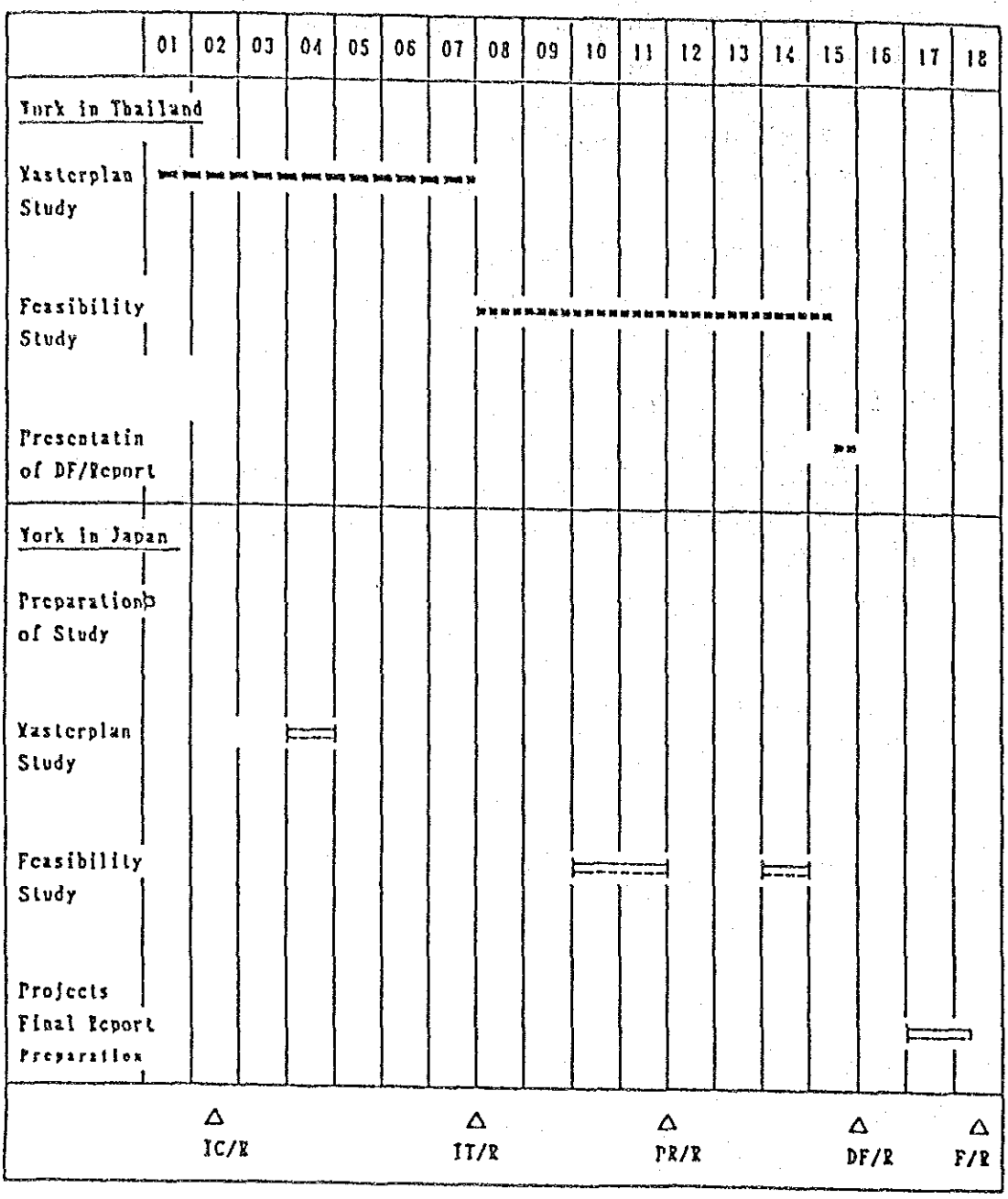
1. To dispatch, at its own expense, the Study Team to Thailand;

2. To pursue technology transfer to thai counterpart personnel in the course of the Study.

VIII.CONSULTATION

JICA and DOH shall consult with each other in respect of any matter that may arise from or in connection with the Study.

TENTATIVE SCHEDULE



IC/R: Inception Report
IT/R: Interim Report
F/R : Final Report
PR/R: Progress Report
DF/R: Draft Final Report

付録：
第　2　章

A.2.5.1 DOH 道路リスト

1. Data Items of Inventory

RN : Route Name
CSSN : Control Section - Subsection
FCC : Functional Class Code
LCS : Length of Control Section (m)
WLS : Width of Shoulder (cm)
WP : Width of Pavement (cm)
ST : Surface Type
PC : Pavement Condition
TWROW : Total Width of Right of Way (cm)
MH : Maintenance History
DHL : Disaster History Level
N7P : Needs for 7th Highway Plan
WP90 : Required Pavement Width in the Year of 1990 based on the DOH Standard (cm)
PR90 : Required Project in the Year of 1990 based on the DOH Standard
PRJCT : Project Number of Pre Feasibility Study

2. Numerical and Character Code

1) Functional Class Code (FCC)

10; Pd	20; Sd	30; Fd
11; P1	21; S1	31; F1
12; P2	22; S2	32; F2
13; P3	23; S3	33; F3
	24; S4	34; F4
	25; S5	35; F5
		36; F6

2) Surface Type (ST)

1; Earth	5; Under STD Penetration Macadam
2; Soil Aggregate	6; Penetration Macadam
3; Single S.T.	7; Asphaltic Concrete
4; Double S.T.	8; Concrete

3) Pavement Condition (PC)

1; Good
2; Good/Fair
3; Fair
4; Fair/Poor
5; Poor

4) Maintenance History (MH)

A; On-going projects for construction as of September 1987.

B; Projects committed in the Sixth Five-Year Highway Plan (1987 - 1991),
BR; Reconstruction/Rehabilitation/New construction.
BB; Upgrading to Bitumen surfaced road.

C; Projects planned in 1989-1991 in the Sixth Five-Year Highway Plan,
CR; Reconstruction/Rehabilitation/New construction.
CB; Upgrading to Bitumen surfaced road.

D; Soil aggregate surfaced road.

E; Additional two-lane construction committed in the Sixth Five-Year Highway Plan.

F; Additional two-lane construction planned in the 1989-1991 Sixth Five-Year Plan.

G; Road links rehabilitated in the last 3 years.

H; Road links planned as Concession Highway.

5) Disaster History Level (DHL)

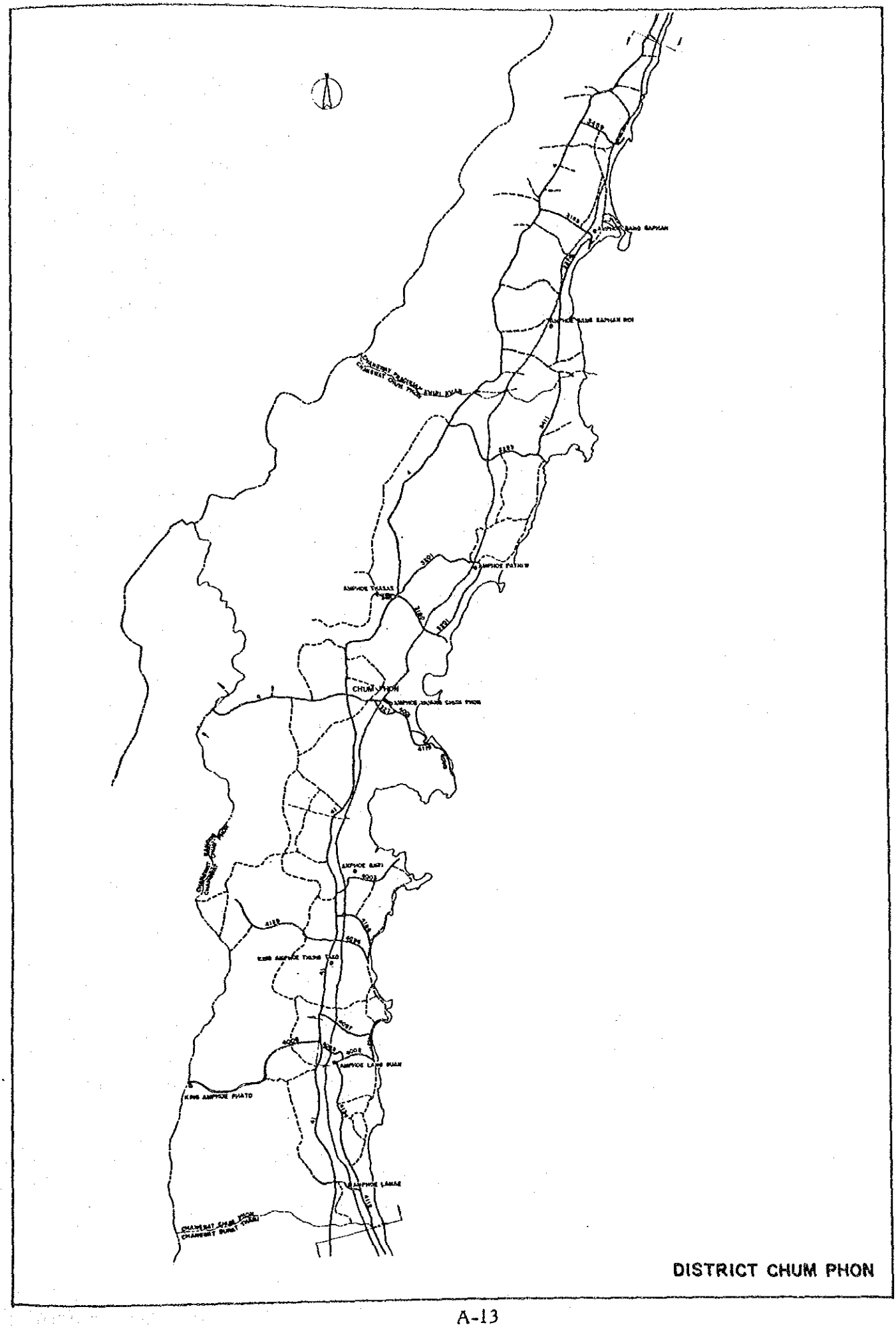
3; Damaged almost more than once a every year
2; Damaged almost more than once a every three years
1; Damaged in the past
0; No damage

6) Needs for 7th Plan (N7P)

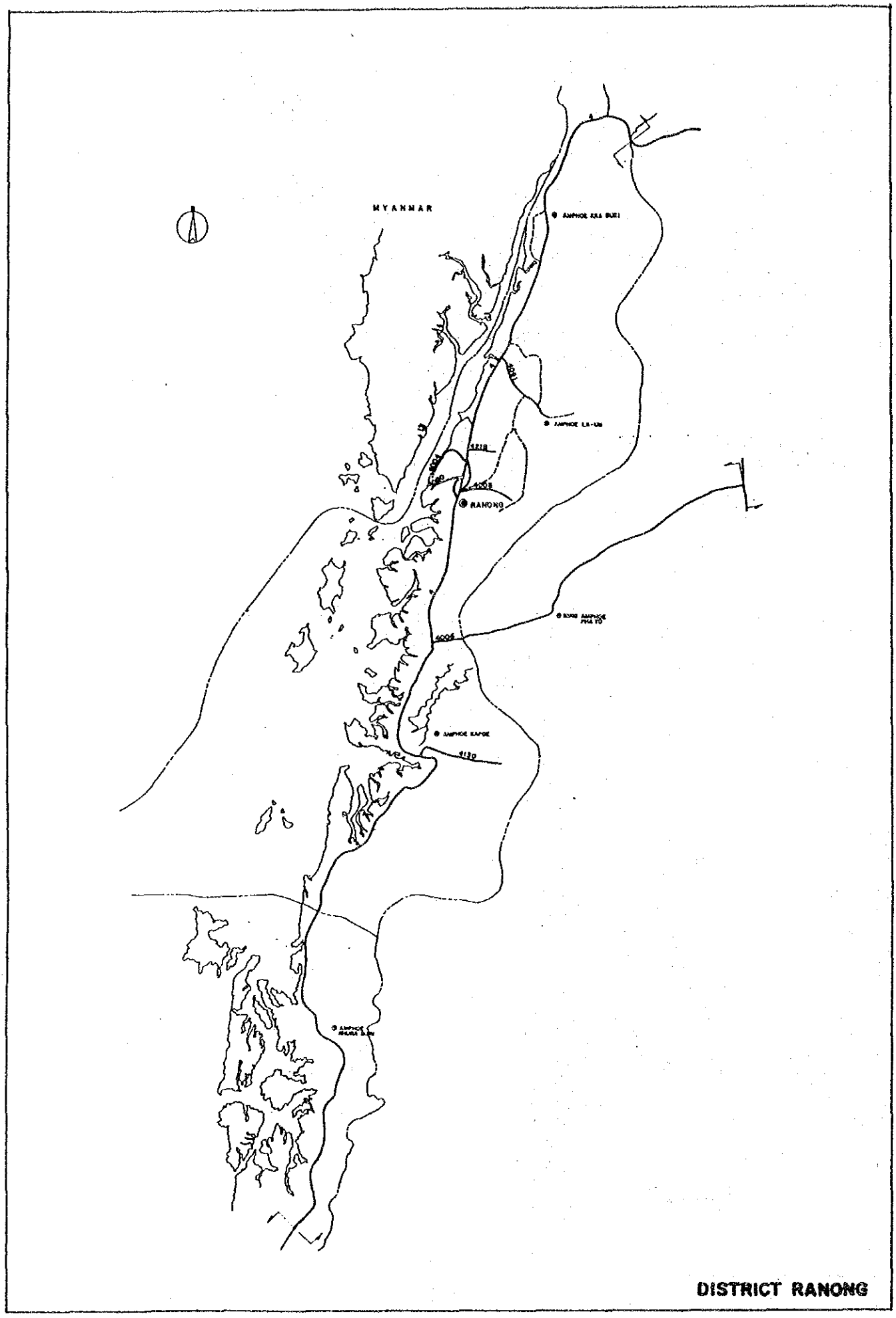
IM; Improvement project, Re-Construction project
RH; Rehabilitation project
PV; Paving project
NC; New Construction project

7) Project Required in 1990 (PR90)

AD; Additional Lane Construction
WD; Widening of Carriageway



DISTRICT CHUM PHON



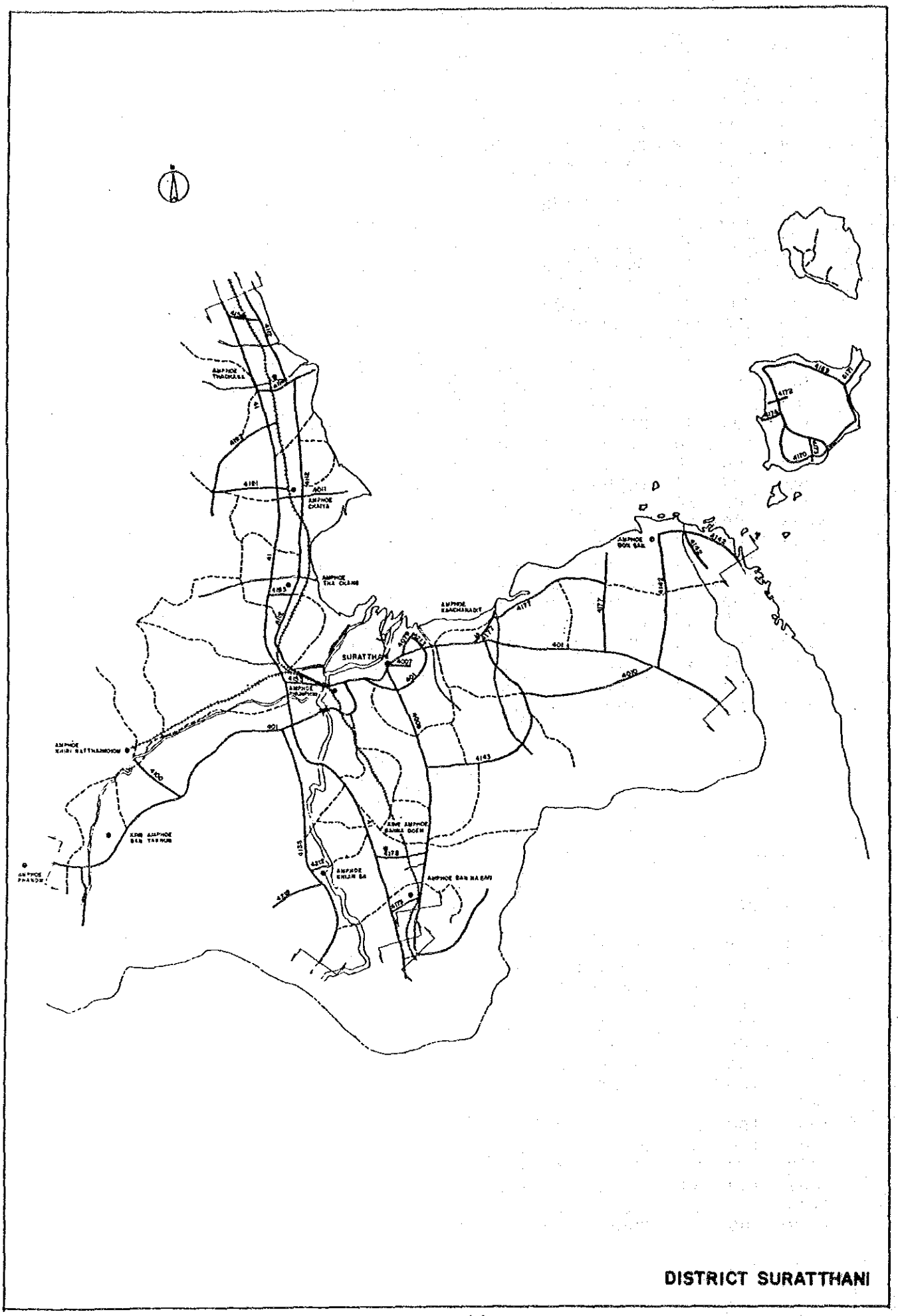
DISTRICT RANONG

CHUMPHON DISTRICT

RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
4	1302	12	34014	225	650	7	1	6000		1		1400	AD	
4	1400	12	25100	225	650	7	1	6000		1		1400	AD	
4	1500	12	26489	225	650	7	1	6000		2		1400	AD	
4	1600	12	26516	225	650	7	1	6000		2	IM	1400	AD	
4	1700	12	22725	0	650	7	1	6000		3		1400	AD	
4	1800	12	26132	225	650	7	1	6000		2	IM	650		
41	100	12	34876	250	650	7	3	6000		1		1400	AD	
41	200	12	31640	250	650	6	1	6000		0		1400	AD	
41	300	12	30800	250	650	7	2	8000		0		1400	AD	
327	100	23	6113	200	600	7	1	2200	CR	0	IM	1400	AD	
327	200	23	2671	200	600	7	1	4000	CR	1	IM	1400	AD	
3169	100	34	14224	175	550	6	2	3000		1		700	WD	
3180	100	36	14937	0	800	2	3	4000		3		800		
3181	100	34	2898	150	500	5	2	4000		1	IM	700	WD	
3201	100	34	31358	175	550	4	3	3000		2	PV	650	WD	
3253	100	36	21490	0	800	2	3	4000		3		800		
3374	100	36	26711	0	800	2	1	4000	CB	3		800		
3411	100	36	17000	0	600	2	3	4000		2	PV	900	WD	
3459	100	36	11449	0	600	4	1	0		0		600		
4001	100	34	10000	150	500	5	1	4000	CR	3		500		
4002	100	34	7583	150	500	4	3	3000		1	IM	700	WD	
4003	100	34	15282	150	500	4	2	4000		1		650	WD	
4096	100	36	10358	0	800	4	4	3000		0	IM	800		
4097	100	34	10358	0	800	2	3	3000		0		800		
4098	100	34	7150	150	500	4	2	1300		0	IM	650	WD	
4099	100	34	6500	150	500	3	4	1500		1	IM	600	WD	
4112	100	36	18000	0	800	2	3	3000		3	PV	800		
4119	100	33	7737	200	600	6	3	3000		0		600		
4134	100	34	21500	0	800	2	3	3000		3		800		
4139	100	36	23234	0	800	2	1	3000	CB	0		1400	AD	
4198	100	36	14000	0	600	2	3	3000		0	PV	600		

RANONG DISTRICT

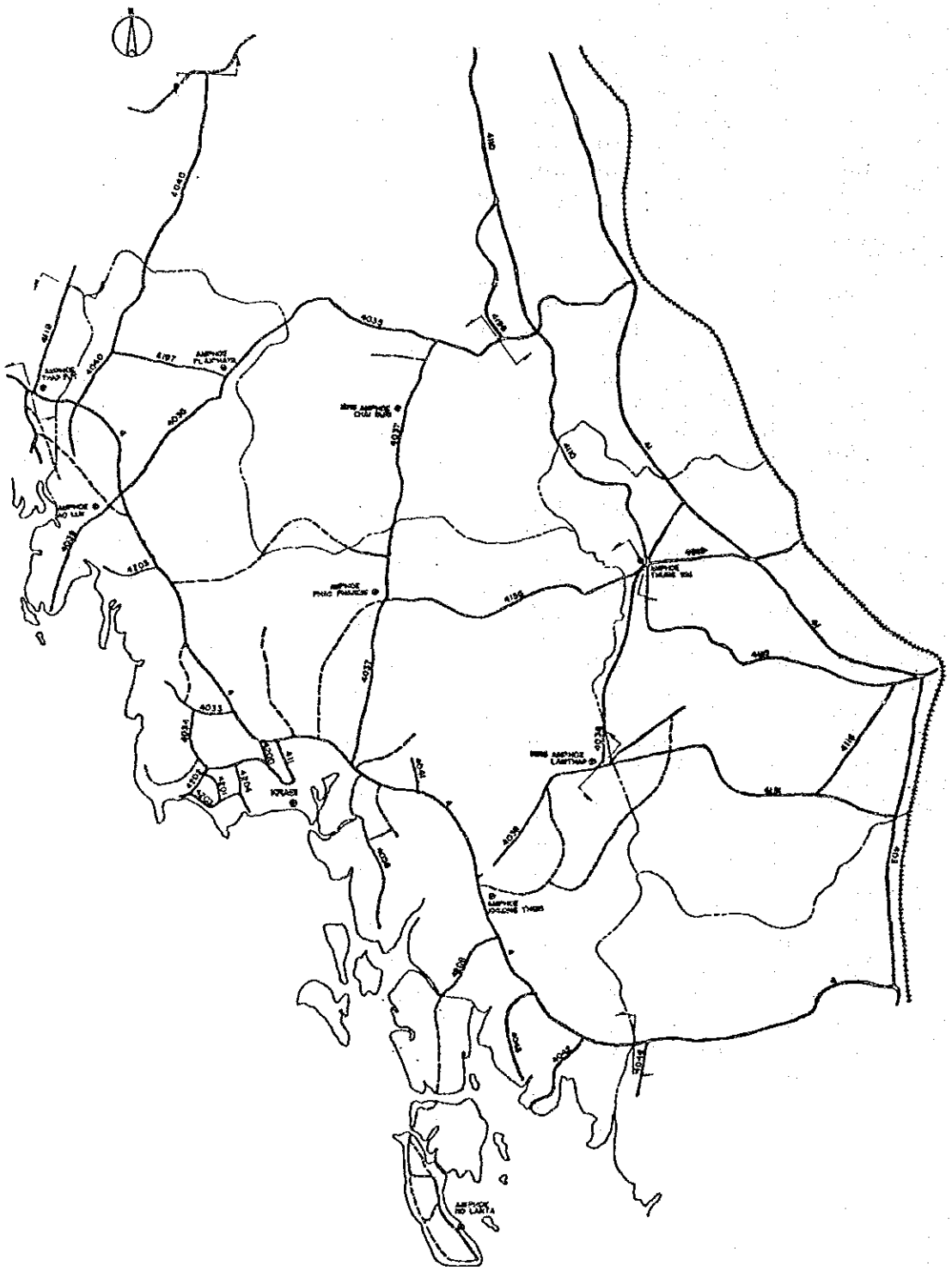
RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
4	1900	12	28353	225	650	7	1	4000		0	RH	650		
4	2000	13	29605	200	600	7	1	4000		0	RH	700	WD	
4	2100	13	26870	200	600	7	3	4000		0		700	WD	
4	2201	13	2343	200	600	7	2	6000		0	RH	700	WD	
4	2202	13	25852	200	600	7	2	4000		0	RH	600		WD7-5
4	2300	13	25890	200	600	7	2	6000		0	RH	700	WD	
4	2400	13	37060	200	600	4	3	6000		0	RH	700	WD	
4	2500	13	25910	200	600	4	3	6000		0	RH	700	WD	
4	2601	13	48860	200	600	4	1	6000	CR	0	RH	600		
412	100	23	309	200	600	4	3	6000		0	RH	700	WD	
4004	100	34	8300	0	800	2	3	4000		0	PV	800		
4005	100	34	6000	150	500	5	3	4000		0	RH	650	WD	
4006	100	34	69000	150	500	4	1	4000	CR	3	RH	650	WD	
4080	100	33	2940	200	600	4	4	4000		0	RH	1400	AD	
4091	100	34	13400	150	500	4	3	4000		0	RH	600	WD	
4130	100	34	15600	0	600	2	3	4000		0		600		
4218	100	34	3090	0	550	4	4	0		1		550		



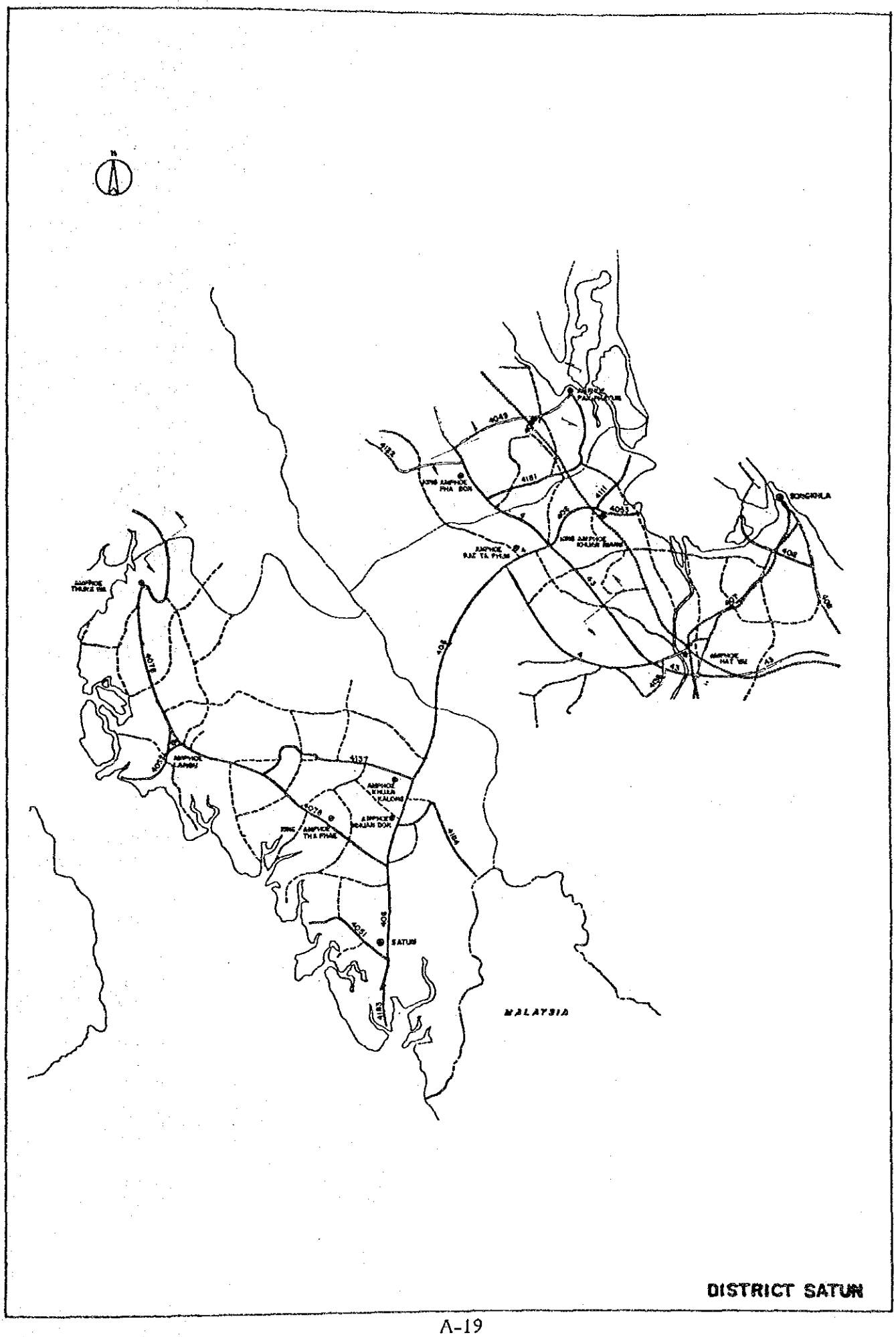
DISTRICT SURATTHANI

SURATTHANI DISTRICT

RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
41	400	11	15424	200	700	4	2	8000		0		1400	AD	
41	500	12	18200	200	700	4	2	8000		1		1400	AD	
41	600	12	42091	200	700	4	2	8000		3		1400	AD	
41	701	12	38258	225	650	7	2	8000		3		650		
401	302	23	6076	200	600	4	2	6000		0		650	WD	WD7-6
401	400	23	29923	200	600	4	2	6000		0		700	WD	WD7-6
401	500	23	32001	200	600	4	2	6000		0		600		WD7-6
401	601	20	10098	250	1300	6	3	5000		1		1400	AD	AD-1
401	602	21	10535	250	700	7	1	5000		0		1400	AD	AD-1
401	700	21	15475	250	700	7	2	4000		3	RH	1400	AD	AD-1
401	801	23	35662	200	600	7	2	4000		3		1400	AD	AD-1
4007	100	34	1725	150	500	6	3	3000		0		1400	AD	
4008	100	20	2002	250	1300	6	3	3500		0		1400	AD	AD-1
4009	100	34	40869	175	550	7	3	3000		0		550		WD7-1
4010	100	36	27767	0	600	2	3	4000		1	PV	650	WD	
4011	100	34	11054	150	500	4	2	3000		3		600	WD	
4079	100	34	4488	125	550	4	3	3000		0	RH	550		
4100	100	34	10440	175	550	2	3	3000		1		600	WD	
4112	200	36	15945	0	800	2	3	3000		0	PV	800		
4112	300	34	22400	150	500	2	3	3000		3		650	WD	
4112	400	34	36400	150	500	4	3	3000		3		700	WD	
4114	100	34	10503	150	500	4	2	3000		1		650	WD	
4133	100	36	42300	0	600	2	3	3000		3		600		
4142	101	34	34700	150	500	7	2	3000		3	RH	650	WD	
4142	102	34	7480	175	550	2	3	3000		3		900	WD	
4143	100	34	30000	175	550	2	3	4000		0		650	WD	
4153	100	33	8536	200	600	4	3	4000		1	IM	1400	AD	AD-1
4154	100	35	3808	0	800	2	3	4000		0		800		
4169	100	20	50115	100	500	8	2	1600		3	RH	500		
4170	100	20	16345	100	350	8	2	3000		3	RH	650	WD	
4171	100	20	4892	100	350	8	2	3000		0	RH	700	WD	
4172	100	20	2368	100	350	8	2	3000		3	RH	600	WD	
4173	100	20	3226	100	350	8	2	1600		0	RH	600	WD	
4174	100	20	3407	100	350	8	2	3000		0	RH	650	WD	
4177	101	36	27100	125	550	7	1	5000		3		600	WD	
4177	102	34	2750	125	500	7	1	2000		1		650	WD	
4177	103	34	3525	125	550	7	1	4000		0		650	WD	
4178	100	34	10419	150	500	4	4	3000		3		500		
4185	100	34	4800	150	500	4	3	1600		1		600	WD	
4191	100	35	13467	0	900	2	1	2400	CB	1		900		
4192	100	35	20633	0	900	2	3	2400		3	PV	900		
4212	100	34	4560	100	500	5	1	3000	CB	1		650	WD	
4213	100	33	3395	200	600	7	1	4000		0		600		
4219	100	34	13000	0	400	1	5	4000		0		400		
4223	100	35	18270	0	900	1	5	3000		0	PV	900		
4229	101	34	20640	150	500	5	3	3000		0		500		
4229	102	34	282	150	500	4	0	3000		0		500		



DISTRICT KRABI



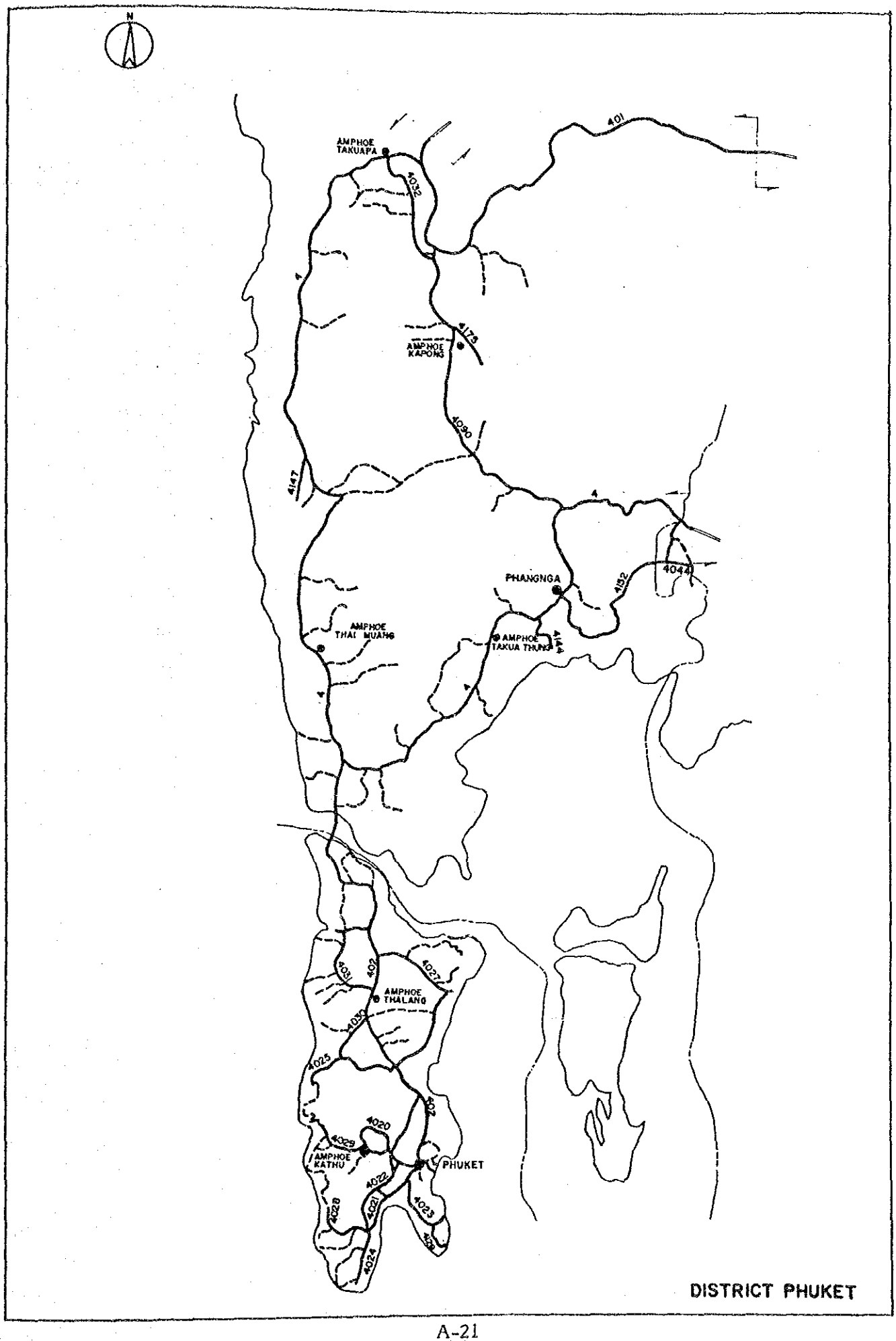
DISTRICT SATUN

KRABI DISTRICT

RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
4	3200	13	20600	200	600	6	3	5000		2	IM	600		
4	3300	13	39900	200	600	6	3	5000		0	IM	700	WD	
4	3400	13	36200	200	600	3	3	4000		0		1400	AD	
4	3500	13	32170	200	600	6	2	4000		0		600		
411	100	23	4300	200	600	5	1	3000	CR	0		1400	AD	
416	100	34	37000	150	500	4	1	4000	CB	0	IM	600	WD	
416	200	34	15200	150	500	4	2	5500		1	IM	650	WD	NC-3
4033	100	36	5310	0	600	2	3	3000		0		650	WD	
4034	100	34	25260	150	500	4	1	3000	CB	0		700	WD	
4035	100	34	20812	150	500	4	3	4000		0	IM	700	WD	WD7-2
4035	200	34	44688	150	500	4	3	4000		0	IM	500		WD7-2
4036	100	34	22900	100	500	4	4	3000		0	IM	600	WD	
4037	100	34	34700	150	600	4	4	3000		3		650	WD	
4037	200	34	24024	100	500	4	4	4000		3		650	WD	
4038	100	36	27000	0	600	2	1	3000	CB	1		600		
4038	200	36	26870	0	700	2	4	3000		1		700		
4039	100	36	17800	0	600	2	3	3000		0		600		
4041	100	36	4393	0	600	2	4	3000		0		900	WD	
4042	100	36	13250	0	620	2	1	3000	CB	0		620		
4043	100	36	13210	0	600	2	4	3000		0	PV	600		
4118	100	36	19000	0	600	2	4	3000		0	PV	600		
4156	100	34	40820	175	550	4	3	4000		3	IM	650	WD	
4197	100	34	15938	100	500	4	2	4000		0	IM	700	WD	
4200	101	34	2535	150	500	4	3	3000		0	IM	700	WD	
4200	102	34	396	150	500	4	3	3000		0		700	WD	
4201	100	36	3465	0	600	2	4	3000		0		600		
4202	100	34	5462	100	500	4	3	3000		0	IM	900	WD	
4203	100	36	8376	0	600	2	4	3000		0		650	WD	
4204	100	36	8180	0	600	2	4	3000		0		600		
4205	100	36	7981	0	600	2	4	3000		0	PV	600		
4206	100	36	10061	0	600	2	4	3000		0	PV	650	WD	UBS-1

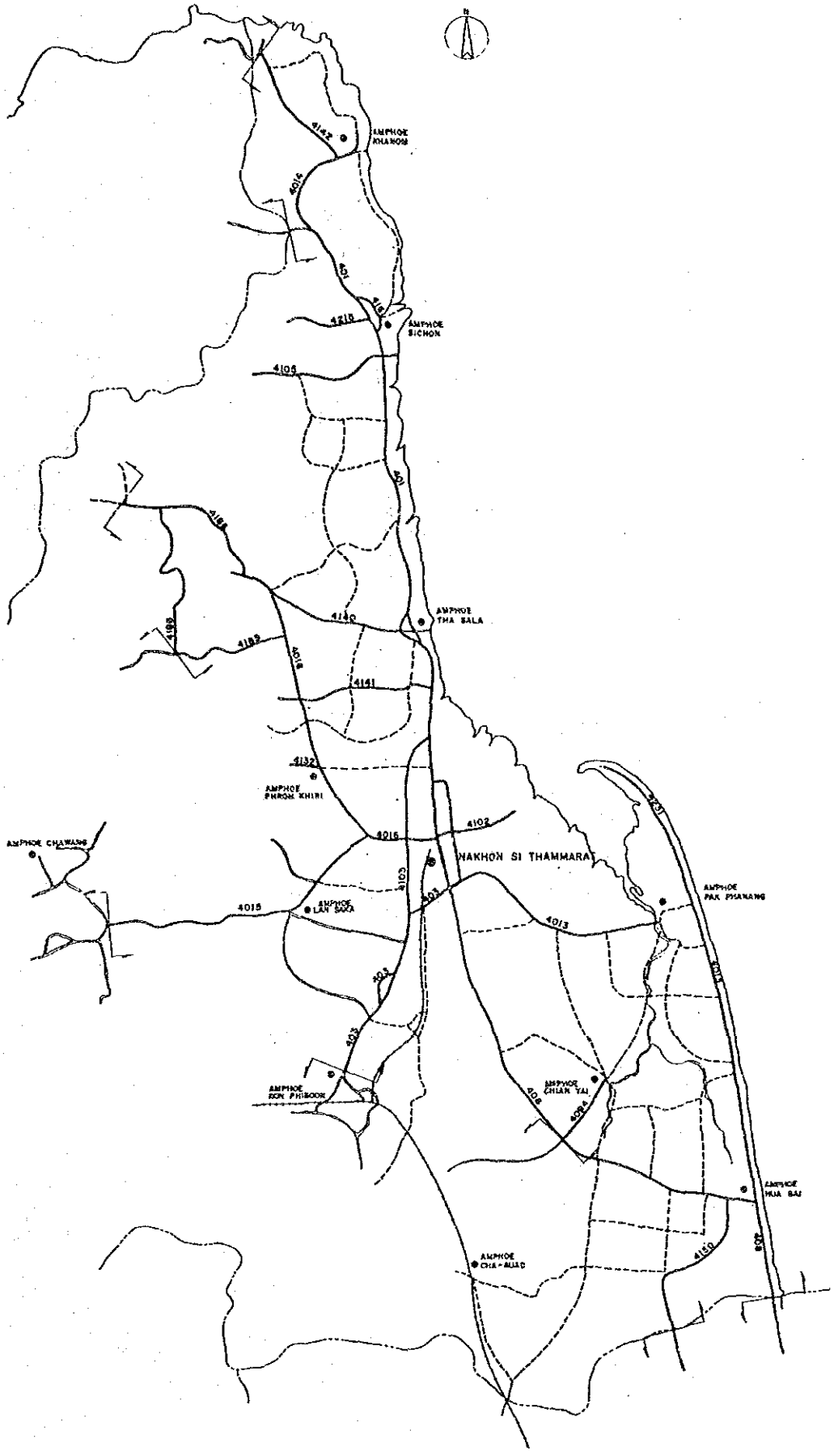
SATUN DISTRICT

RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
4	4100	13	25190	150	600	7	4	4000		0		1400	AD	AD-4
4	4200	13	7025	150	600	7	1	3000	CR	0	IM	1400	AD	
43	101	12	11160	225	650	7	1	8000		0		1400	AD	AD-4
406	100	23	10000	200	500	4	4	3000		0		700	WD	
406	200	23	36975	100	500	3	4	3000		2	IM	500		
406	300	23	25366	200	600	4	2	3000		1	IM	1400	AD	
417	101	34	35600	150	500	4	2	3000		0	IM	700	WD	WD6-1
417	102	34	1459	150	500	4	2	3000		0		700	WD	WD6-1
417	200	34	25800	150	500	4	3	3000		0		500		WD6-1
417	301	34	14700	150	500	4	3	4000		0		700	WD	WD6-1
4051	100	34	12658	150	500	4	3	3000		0		700	WD	
4052	100	34	9953	150	500	4	2	3000		0	IM	600	WD	
4053	100	36	6600	100	500	4	2	3000		1		600	WD	
4111	100	36	11195	0	700	4	1	3000	CB	0		700		
4137	100	34	26780	100	500	4	3	3000		1	IM	650	WD	WD6-1
4181	100	36	29107	0	600	4	1	3000	CB	0		600		
4183	100	34	5100	150	500	4	3	4000		0		700	WD	
4184	100	34	22054	150	500	4	2	3000		1		600	WD	

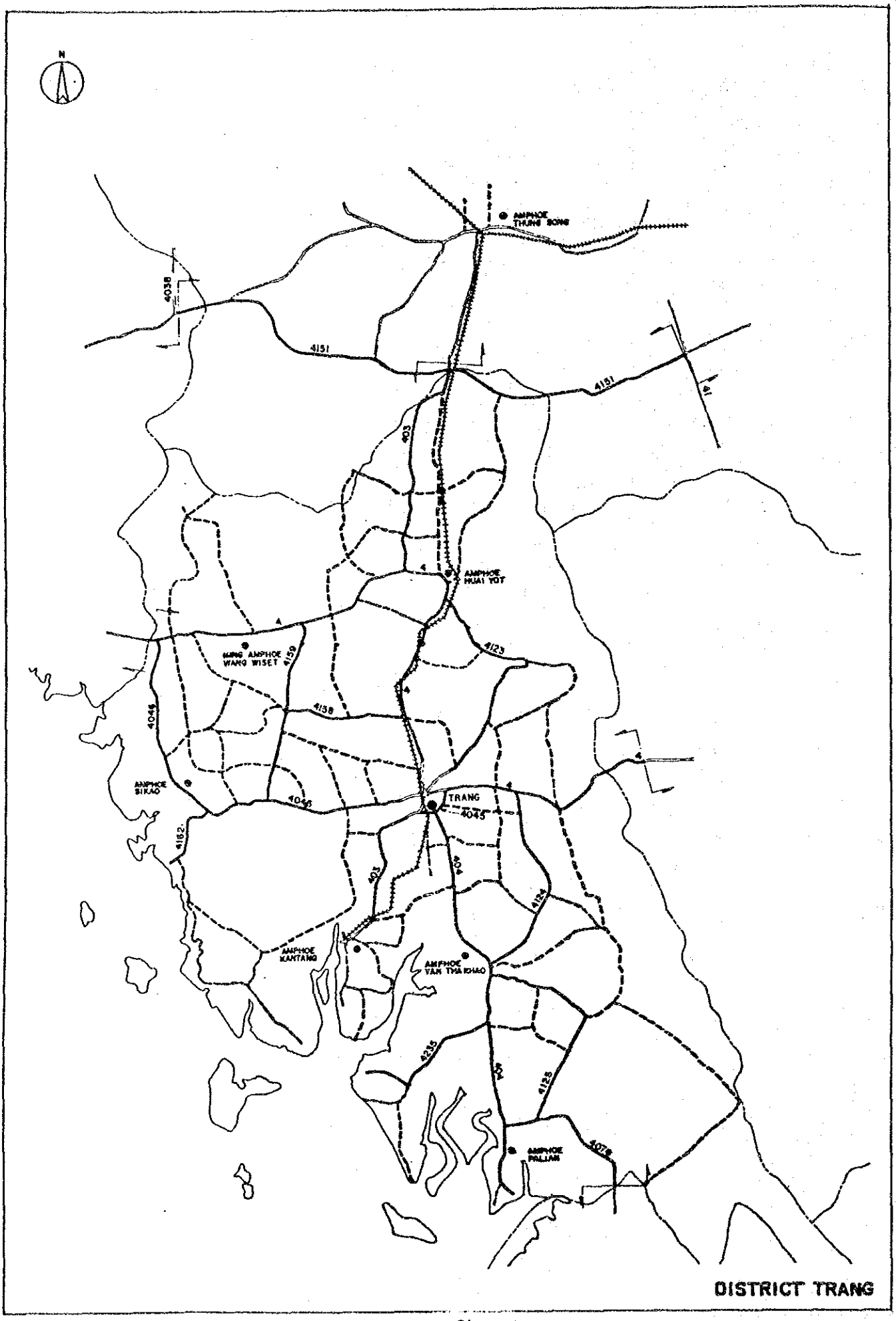

N
AMPHOE TAKUAPA
401
4032
4175
AMPHOE KAPONG
4090
4147
PHANGNGA
4132
4044
AMPHOE THAI MUANG
AMPHOE TAKUA THUNG
4031
402
4027
AMPHOE THALANG
4030
4025
4020
4029
AMPHOE KATHU
PHUKET
4022
4021
4023
4028
4024
DISTRICT PHUKET

PHUKET DISTRICT

RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
4	2602	13	500	0	600	7	1	6000	CR	0		700	WD	
4	2700	13	39747	0	600	7	2	4000		0		600		
4	2800	13	29903	0	600	7	2	4000		0		700	WD	
4	2900	13	15270	0	600	7	3	4000		1	RH	700	WD	
4	3000	13	24828	200	600	7	1	4000	CR	0		1400	AD	AD-3
4	3101	13	18194	200	600	7	2	4000		0		600		AD-3
4	3102	13	20394	200	600	7	2	5000		0		600		
401	100	23	23628	0	600	7	4	6000		0		600		
401	200	23	30763	200	600	7	2	6000		0		600		
401	301	23	23151	0	600	7	1	0		0		650	WD	
402	101	23	8413	250	700	7	1	4000		0	RH	1400	AD	AD-2
402	102	24	2171	0	600	7	1	2175		0	RH	600		
402	201	23	41719	250	600	7	1	4000		2	RH	1400	AD	AD-2
402	202	23	825	0	600	7	1	4000		0		1400	AD	
402	300	23	8130	0	600	7	2	0		0		1400	AD	
415	100	34	22527	0	550	7	2	4000		0		550		
4020	100	33	11351	0	600	7	3	4000	CR	0		1400	AD	
4021	100	34	13595	0	550	7	1	4000	CR	3	RH	1400	AD	
4022	100	34	4051	0	550	7	4	4000	CR	0		550		
4023	100	33	5980	0	600	7	1	4000		0		600		
4024	100	34	5461	0	550	7	1	4000	CR	0		550		
4025	100	34	12001	0	550	7	1	4000		0		550		
4026	100	33	2871	0	600	7	1	4000		0		600		
4027	100	34	19538	0	550	7	1	4000		0		700	WD	
4028	100	34	8610	0	550	7	1	4000		0		550		
4029	100	34	5600	0	550	7	2	4000		0	RH	1400	AD	
4030	100	34	5836	0	550	7	1	4000		1		650	WD	
4031	100	34	10222	0	550	7	1	4000		0		650	WD	
4032	100	33	7696	0	600	7	1	4000		0		600		
4044	100	36	2950	0	600	2	1	3000		0	PV	600		
4090	100	33	43464	0	600	7	3	4000		0		600		
4129	100	34	3169	0	550	7	2	1500		0		700	WD	
4144	100	34	3875	0	550	7	1	2000		0		600	WD	
4147	100	33	4569	0	600	7	1	2400		0		650	WD	
4175	100	34	6477	0	550	7	1	4000		0		650	WD	



DISTRICT NAKHON SI THAMMARAT

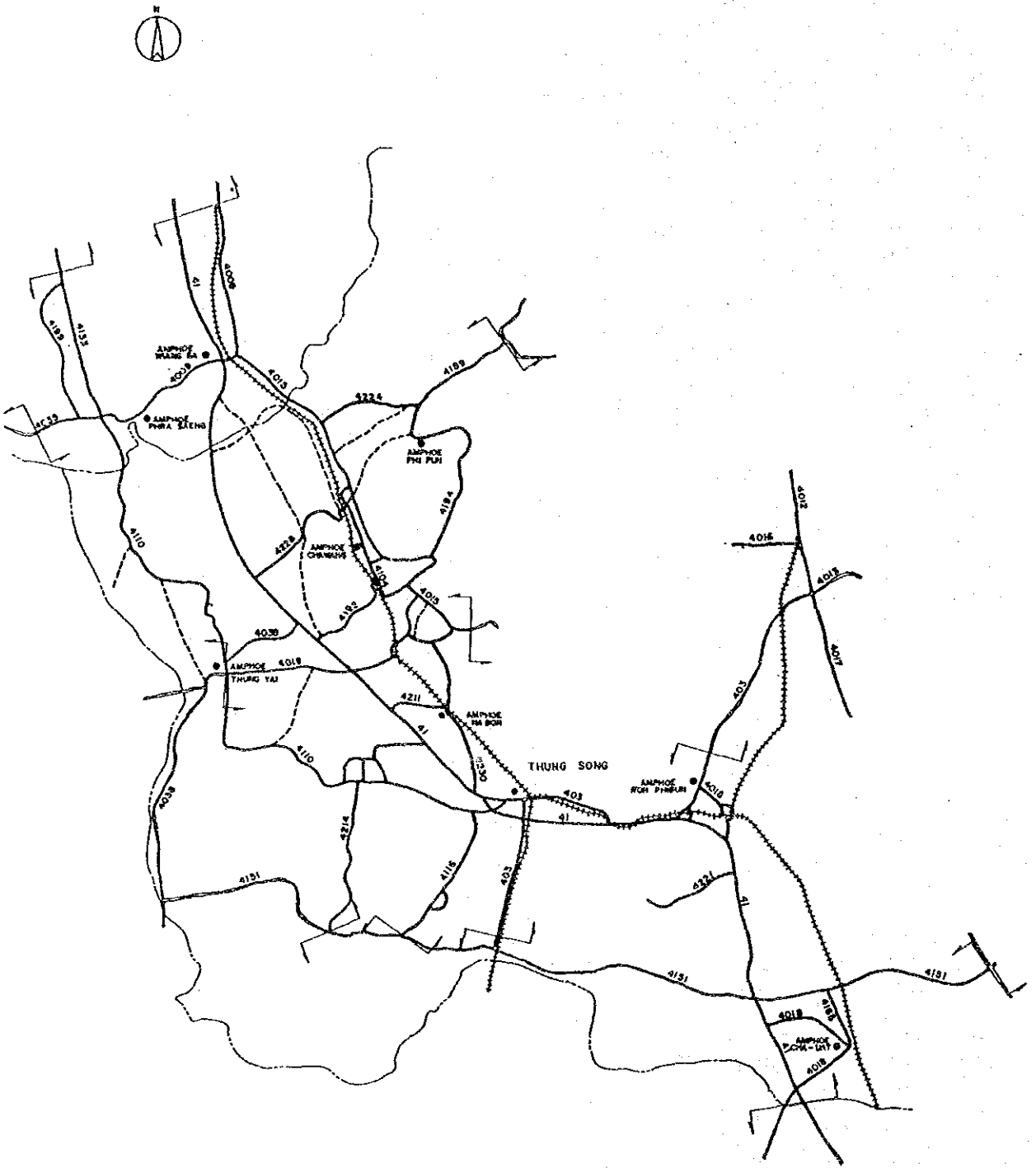

N
AMPHOE THUNG SONG
4038
4151
4151
41
403
AMPHOE HUAI YOT
4123
MUANG AMPHOE WANG WISET
4159
4158
4045
AMPHOE SIKAO
4046
TRANG
4045
4182
403
404
4124
AMPHOE KANTANG
AMPHOE YAM THA KHAO
4235
404
4125
AMPHOE PALIAM
4078
DISTRICT TRANG

NAKHON SI THAMMARAT DISTRICT

RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
401	802	23	4367	175	650	7	2	6000		0		650		
401	900	23	15198	200	600	7	2	5000		3		600		
401	1001	23	37140	200	600	7	2	5000		3		1400	AD	
401	1002	23	4279	200	600	7	2	5000		3		600		
401	1100	23	19375	200	600	5	1	3000	CR	3		1400	AD	
403	101	21	25709	250	700	7	1	3000		3		1400	AD	
403	102	23	593	150	600	5	3	3000		3		650	WD	
408	100	23	33637	100	600	7	2	5000		3	IM	1400	AD	
408	200	23	26151	100	600	7	2	5000		1	IM	600		
408	301	23	11904	100	600	5	2	5000		0	IM	600		WD7-4
4012	100	34	8145	250	700	7	2	4000		0		1400	AD	
4013	100	33	27650	200	600	3	1	4000	BR	3		600		
4013	200	34	37078	100	500	4	3	4000		3	IM	600	WD	
4014	100	34	17530	150	500	7	2	4000		0		700	WD	
4015	100	34	13727	150	500	4	1	3000		3		500		
4015	201	34	23620	150	500	4	2	3000		0		500		
4016	100	34	12243	150	600	5	3	4000		0		1400	AD	
4016	200	34	32024	100	600	4	2	4000		3		600		
4094	100	34	8064	100	500	4	3	3000		3		700	WD	
4102	100	34	8904	150	500	4	3	3000		0		500		
4103	100	33	25131	200	600	7	2	8000		2	IM	600		NC-2
4105	100	34	18519	100	500	4	1	3000		0		550	WD	
4132	100	34	4584	100	400	4	3	2000		0		600	WD	
4140	100	34	23433	150	500	4	3	3000		3		700	WD	
4141	100	34	19872	175	550	4	3	3000		3		600	WD	
4142	200	34	12813	150	500	7	3	3000		1		650	WD	
4150	100	36	15800	0	700	2	3	4000		0	PV	700		
4161	100	34	6882	175	550	4	3	2000		3		900	WD	
4186	100	34	20750	125	350	4	2	3000		3		700	WD	
4188	100	34	32176	125	350	4	2	3000		3		600	WD	
4189	101	34	17100	125	350	4	2	3000		0		550	WD	
4215	100	34	15287	175	550	7	3	3040		0		600	WD	
4230	100	31	15193	0	1400	7	0	0		0		1400		
4231	100	35	17300	0	900	2	1	4000		0	PV	900		

TRANG DISTRICT

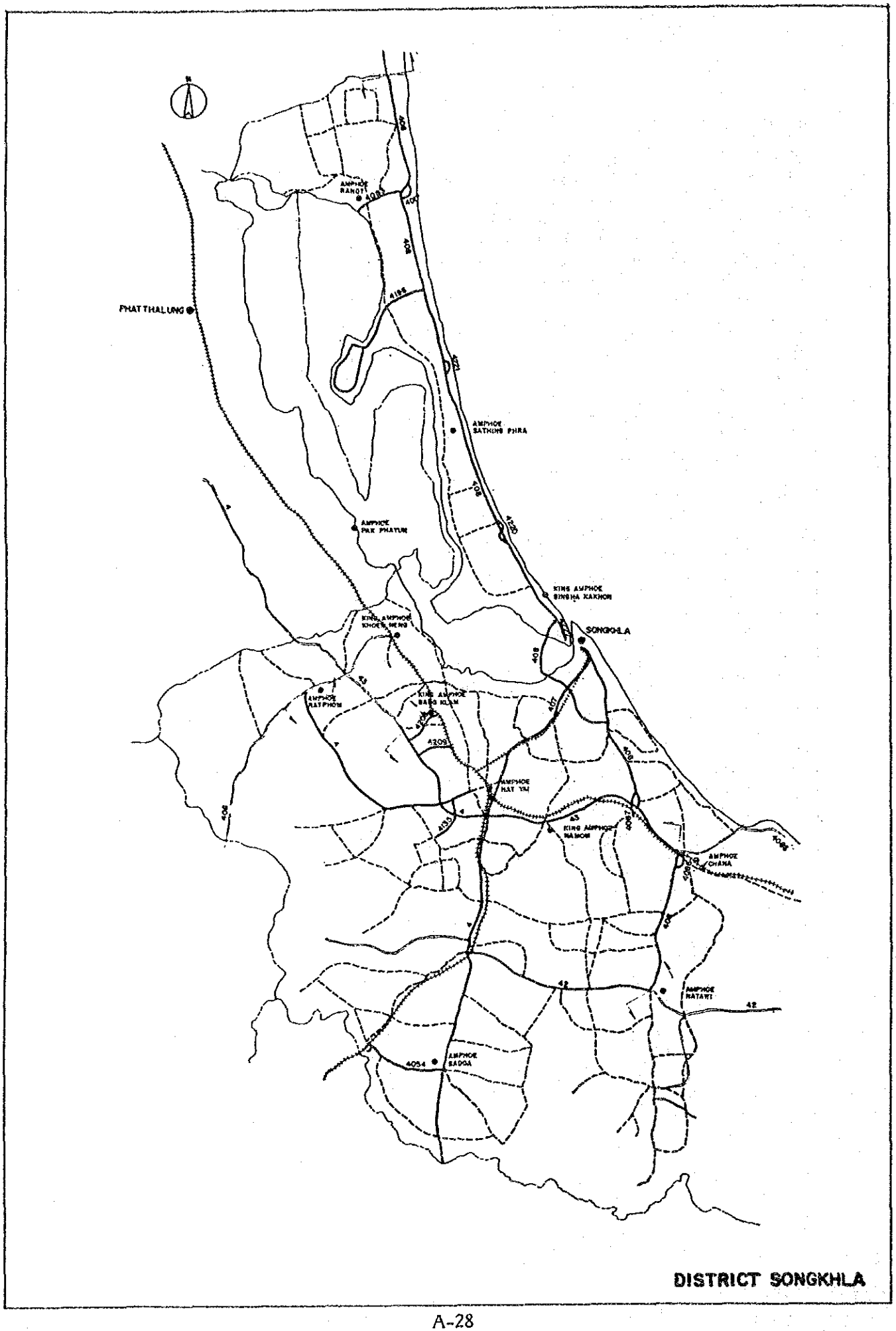
RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
4	3601	13	19390	0	600	7	0	0		3		600		
4	3602	13	14740	0	600	7	0	0		3		650	WD	
4	3701	13	5500	0	600	7	0	0		0		600		
4	3702	13	24354	0	600	7	1	0	CR	0		1400	AD	
4	3800	13	28335	200	600	7	1	4000		3		600		
403	302	23	28888	0	600	7	0	0		3		600		
403	400	23	18622	200	600	7	1	4000		3	RH	600		
404	100	23	49610	200	600	7	1	4000		0		600		
417	302	34	16675	150	500	4	2	4000		0		500		WD6-1
4045	100	34	5294	150	500	4	5	3000		0		650	WD	
4046	100	34	29329	175	550	3	3	3000		2		550		WD7-3
4046	200	34	18522	175	550	3	2	4000		0		700	WD	WD7-3
4123	100	34	31054	0	600	2	1	3000	CB	0		650	WD	
4124	100	36	24772	0	600	2	1	3000	CB	0		600		
4125	100	36	26933	0	600	2	4	3000		0		650	WD	
4151	200	36	35367	0	600	2	1	3000	CB	3		600		
4151	300	36	40154	125	350	3	0	3000		3		600	WD	
4158	100	36	16075	0	600	2	1	3000	CB	3		650	WD	
4159	100	36	22500	0	600	2	1	3000	CB	0		900	WD	
4162	100	34	9157	150	500	4	3	4000		0		600	WD	
4235	100	35	25200	0	900	2	0	0		0	PV	900		

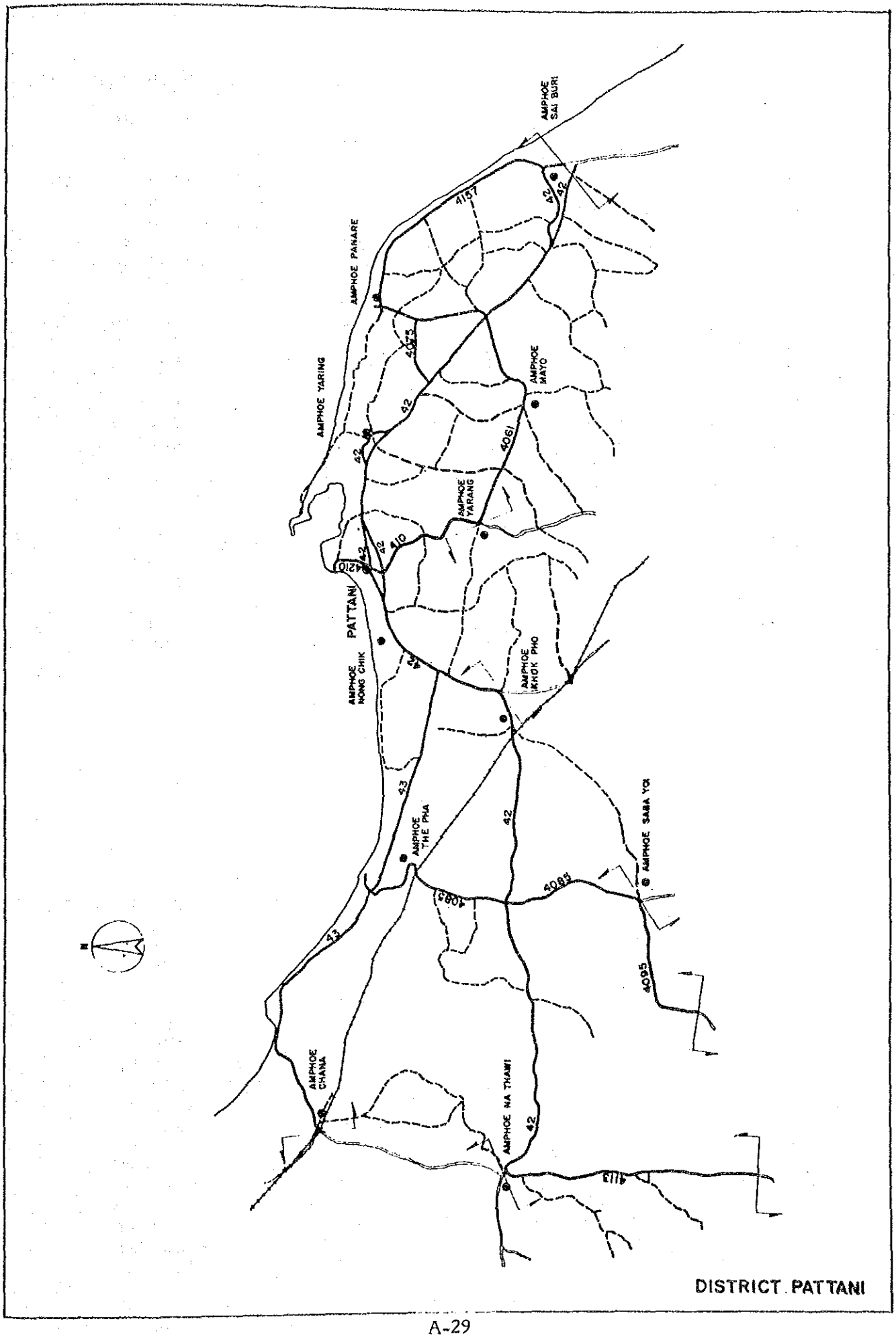


DISTRICT THUNG SONG

THUNG SONG DISTRICT

RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
41	702	12	15636	225	650	7	2	8000		0		650		
41	800	12	15918	225	650	7	2	8000		2		650		
41	900	12	54953	225	650	7	2	8000		3	IM	1400	AD	
41	1001	11	20273	250	700	7	1	8000		3		1400	AD	
41	1002	12	34310	225	650	7	2	8000		3		650		
403	103	21	6130	250	700	7	1	3000		2		700		
403	200	23	7292	100	600	5	1	4000	CR	1		700	WD	
403	301	23	16385	100	600	7	2	6000		0	IM	1400	AD	
4009	201	34	17069	150	500	4	3	3000	CR	3		500		WD7-1
4009	202	34	18423	150	500	4	1	3000	CR	3		500		
4009	300	34	2748	150	500	4	2	4000		2		500		
4015	202	34	23536	150	500	4	3	3000		3		500		
4015	300	34	34784	150	500	4	3	3000		3		600	WD	
4018	101	34	4627	100	500	4	3	3000		3		650	WD	
4018	102	34	6500	100	500	4	3	3000		3		600	WD	
4018	103	34	11027	175	550	4	2	3000		3		600	WD	
4018	104	34	14950	100	500	4	3	2000		3		600	WD	
4019	100	34	27449	150	500	4	0	3000		3	IM	650	WD	
4035	300	34	2600	150	500	4	3	4000		0	IM	500		WD7-2
4038	300	36	10584	0	700	2	1	3000	CB	0	PV	700		
4104	100	34	6949	100	500	4	1	800		0		600	WD	
4110	101	31	48661	150	500	4	3	3000		2		600	WD	
4110	102	23	8937	0	600	7	0	0		0		600		
4110	200	34	42378	150	500	3	3	4000		3		600	WD	
4116	100	35	18203	0	300	2	5	4000		0	PV	600	WD	
4133	200	35	15000	0	900	4	1	0	CB	0	IM	900		
4151	100	36	28172	0	500	2	1	3000	CB	0		900	WD	
4165	100	36	9280	0	800	4	3	2000		3		800		
4180	100	34	2310	0	550	7	0	0		0		900	WD	
4189	102	36	16054	0	600	2	3	3000		0		900	WD	
4194	100	34	19307	150	500	3	3	3000		3		700	WD	
4195	100	34	11600	150	500	4	1	3000		3	IM	700	WD	
4199	100	36	18881	0	600	2	4	3000		1	PV	900	WD	
4211	100	34	5997	175	550	4	1	3000		1		650	WD	
4214	100	33	22804	0	600	4	0	0		1	PV	900	WD	
4224	100	23	20582	0	600	4	0	0		0		600		
4228	100	23	17704	0	600	4	0	0		0		600		


PHATTHALUNG
AMPHOE RANOT
AMPHOE SATHING PHRA
AMPHOE PAK PHAYUN
KING AMPHOE SINGHA NAKHON
SONGKHLA
KING AMPHOE KHOEN HENG
AMPHOE RATPHOM
KING AMPHOE BANG KLAM
AMPHOE HAT YAI
KING AMPHOE NAMOM
AMPHOE CHANA
AMPHOE NATAWI
AMPHOE SADOA
4054
4209
4220
4135
42
DISTRICT SONGKHLA



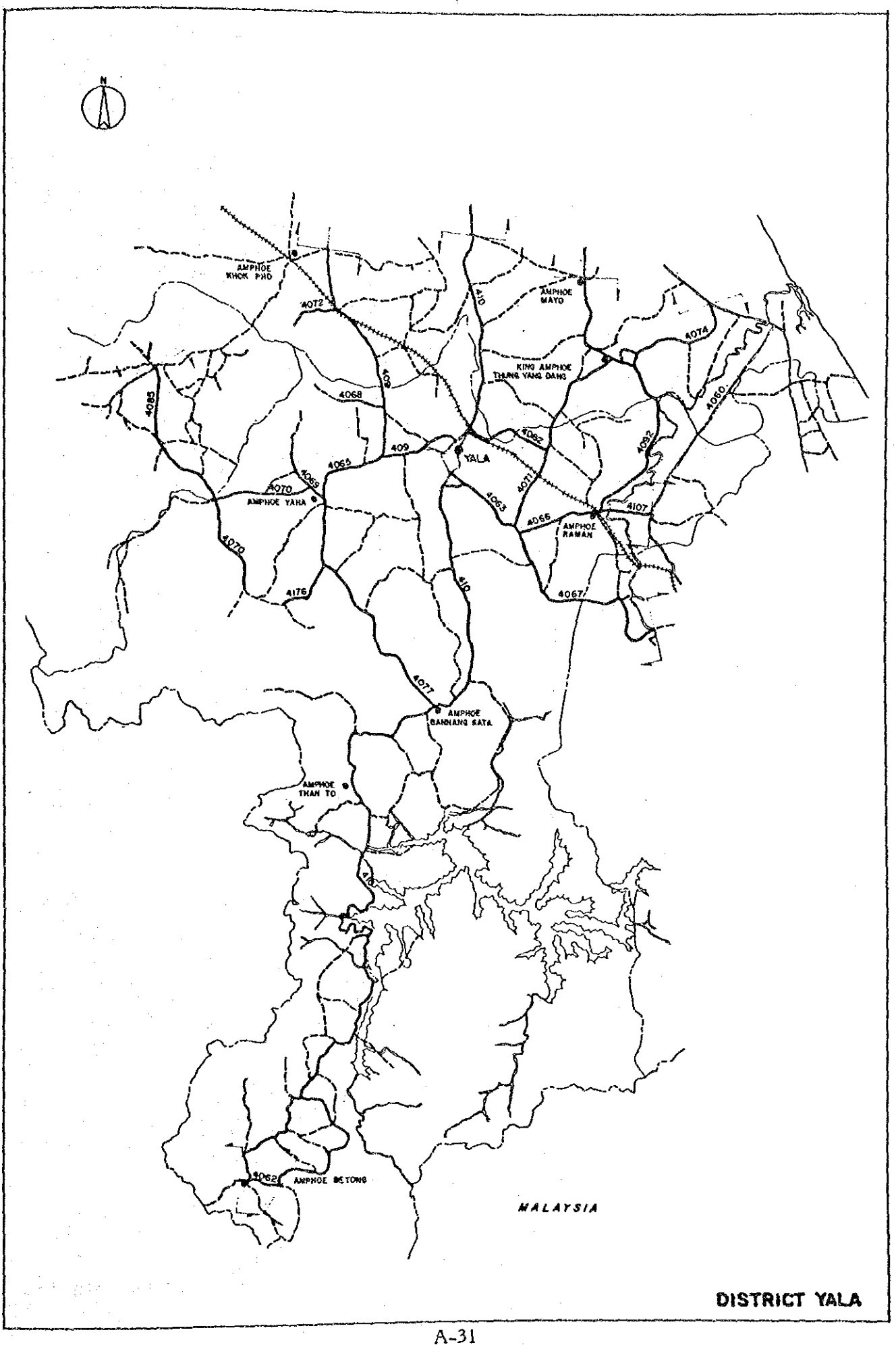
DISTRICT PATTANI

SONGKHLA DISTRICT

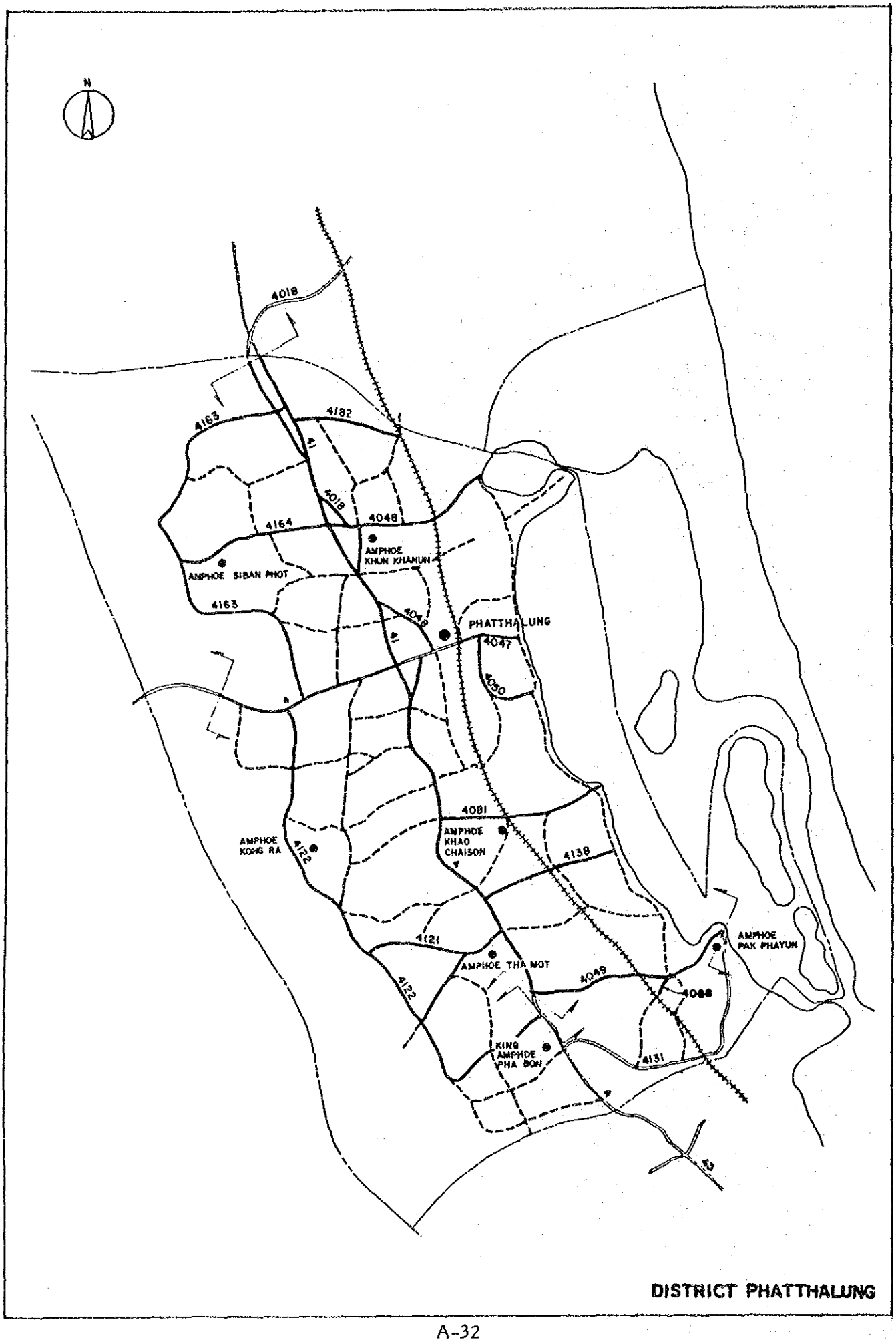
RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
4	4300	13	32224	200	600	7	1	4000	CR	0		600		
4	4400	13	26580	200	600	7	2	3000		3		1400	AD	
4	4500	13	30879	200	600	7	3	3000		3		600		
42	100	13	29693	200	600	7	2	6000		3		700	WD	
43	102	12	11840	225	700	7	2	8000		0	IM	1400	AD	AD-4
43	200	13	7279	200	600	7	1	4000	CB	0		1400	AD	AD-4
43	300	13	35984	200	600	4	2	8000		2	RH	600		
43	400	34	1795	100	600	4	3	3000		1		700	WD	
407	100	21	22730	250	700	7	1	3000	CR	3	RH	1400	AD	
408	302	33	17113	200	600	7	3	5000		0	RH	600		WD7-4
408	400	33	34517	200	600	7	2	3000		0		600		WD7-4
408	500	33	31874	200	600	7	2	3000		0		1400	AD	WD7-4
408	601	33	13000	0	600	8	1	0		0		1400	AD	
408	602	33	9677	0	600	8	1	0		0		600		
408	701	33	12227	0	600	4	3	0		0	RH	600		
408	702	33	10679	0	600	4	0	0		0		1400	AD	
408	800	33	23376	0	600	4	3	0		0		700	WD	
4017	100	36	3463	0	600	2	4	3000		2	PV	600		
4054	101	33	12300	100	600	7	2	3000		1		600		
4054	102	33	128	100	600	7	2	3000		1		600		
4083	100	34	4823	0	500	4	0	0		0		500		
4087	100	34	2042	100	600	4	3	3000		0		650	WD	
4135	100	33	7675	200	600	7	1	4000		0	IM	600		
4145	100	34	50000	0	550	4	0	0		0		550		
4196	100	36	34364	0	600	2	3	3000		0	PV	600		
4208	100	35	6225	0	1000	2	3	3000		0		1000		
4209	100	35	1962	0	1000	4	3	3000		0		1000		
4220	100	34	3018	0	550	4	3	0		0		550		
4221	100	34	664	0	550	4	3	0		0		550		
4222	100	34	1574	0	550	8	0	0		0		550		

PATTANI DISTRICT

RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
42	200	13	30449	100	600	7	3	4000		3		700	WD	
42	300	13	22443	100	600	6	1	3000	CR	3	RH	700	WD	
42	400	13	19592	100	600	7	3	3000		3		1400	AD	
42	501	12	35738	225	650	7	1	7000		3		1400	AD	
42	502	13	1786	100	600	7	2	3000		3		600		
42	503	13	7971	100	500	7	5	3000		1		700	WD	
42	601	12	17778	225	650	7	3	6000		3		650		
42	602	13	11730	100	550	5	4	3000		3	RH	700	WD	
43	500	34	29000	125	550	7	1	4000	CR	0	IM	550		
43	600	34	23063	125	550	4	1	4000	CR	3	IM	1400	AD	
410	101	22	12440	100	600	5	1	3000	CR	1		600		
4061	100	34	36842	150	500	4	2	3000		0		600	WD	
4075	100	34	7000	150	550	4	2	3000		0		650	WD	
4085	100	34	31362	100	600	4	2	4000		3		600		
4095	100	35	16025	150	500	4	1	4000	CB	0		700	WD	
4113	100	34	30400	150	500	4	2	3300		2		700	WD	
4157	100	34	27000	0	550	4	0	0		0		650	WD	
4210	100	33	3423	200	600	7	1	2000		0		1400	AD	



DISTRICT YALA



DISTRICT PHATTHALUNG

YALA DISTRICT

RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
409	100	24	26180	150	550	5	1	3000		1		1400	AD	
409	200	24	8660	150	700	7	2	4000		3	IM	1400	AD	
410	102	24	21814	150	550	7	1	3000	CR	3		550		
410	200	24	33925	150	550	5	3	3000		3		700	WD	
410	301	24	30400	150	550	5	1	3000	CR	2		550		
410	302	24	5500	150	550	5	1	3000	CR	1		550		
410	401	21	31648	200	700	4	2	6000		1		700		
410	402	24	12358	100	550	5	1	3000	CR	0		550		
410	500	24	18242	100	550	5	1	3000	CR	0		550		
4062	100	34	900	100	500	7	1	3000	CB	0	PV	700	WD	
4063	100	34	9100	125	600	4	2	3000		3		600		RW7-1
4065	100	34	10760	100	500	5	3	3000		3		500		
4066	100	34	10147	150	500	6	2	3000		0		500		RW7-1
4067	100	35	28274	0	800	3	2	3000		0		800		
4068	100	34	6258	100	500	4	2	3000		0		600	WD	
4069	100	35	8135	0	800	4	2	3000		0		800		
4070	100	34	28000	150	500	4	2	3000		0		700	WD	
4071	100	34	24160	0	800	3	2	3000		0		800		
4072	100	34	7334	100	500	5	3	2000		0		600	WD	
4074	101	34	16100	0	800	3	2	3000		0		800		
4074	102	35	1500	0	800	3	2	3000		0		800		
4077	100	35	32810	0	800	3	2	4000		0		800		
4082	100	34	11335	150	500	4	2	3000		0		500		
4085	200	34	19900	150	500	4	2	4000		0		650	WD	
4089	100	35	2609	0	600	4	2	3000		0		900	WD	
4092	100	35	35000	0	800	3	3	4000		3		800		
4107	100	34	6960	150	500	4	1	3000		0		700	WD	RW7-1
4176	100	36	14356	0	600	2	2	3000		3	PV	650	WD	

PHATTHALUNG DISTRICT

RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
4	3900	13	24611	200	600	7	0	3000		3		600		
4	4000	13	40038	200	600	7	4	4000		3		1400	AD	AD-4
41	1100	12	35176	225	652	7	2	8000		1		652		
4018	201	36	10850	0	700	4	3	2000		0		900	WD	
4018	202	36	4450	0	700	4	3	1000		0		900	WD	
4047	100	33	7290	100	600	7	3	3000		3		600		
4048	101	34	7960	150	500	4	3	4000		1		500		
4048	102	34	20577	150	500	4	3	4000		0	IM	700	WD	
4049	100	34	23000	150	500	4	3	3000		3	IM	650	WD	
4050	100	34	11597	100	500	4	3	1000		3	IM	700	WD	
4081	100	34	16150	100	500	4	3	1200		3	IM	600	WD	
4088	100	34	2123	150	500	6	3	3000		0	IM	500		
4121	100	36	16371	0	700	4	3	3000		3		700		
4122	100	36	32000	0	700	2	1	3000	CB	3		700		
4122	200	35	32235	0	700	4	3	3000		2	IM	700		
4138	100	34	15986	175	500	4	1	3000		1		600	WD	
4150	200	36	19000	0	700	2	0	0		0		700		
4163	100	36	26767	0	350	2	3	3000		3	IM	600	WD	
4163	200	36	27033	175	550	2	3	3000		3	IM	600	WD	
4164	100	34	17218	125	3500	4	2	3000		2	IM	3500		
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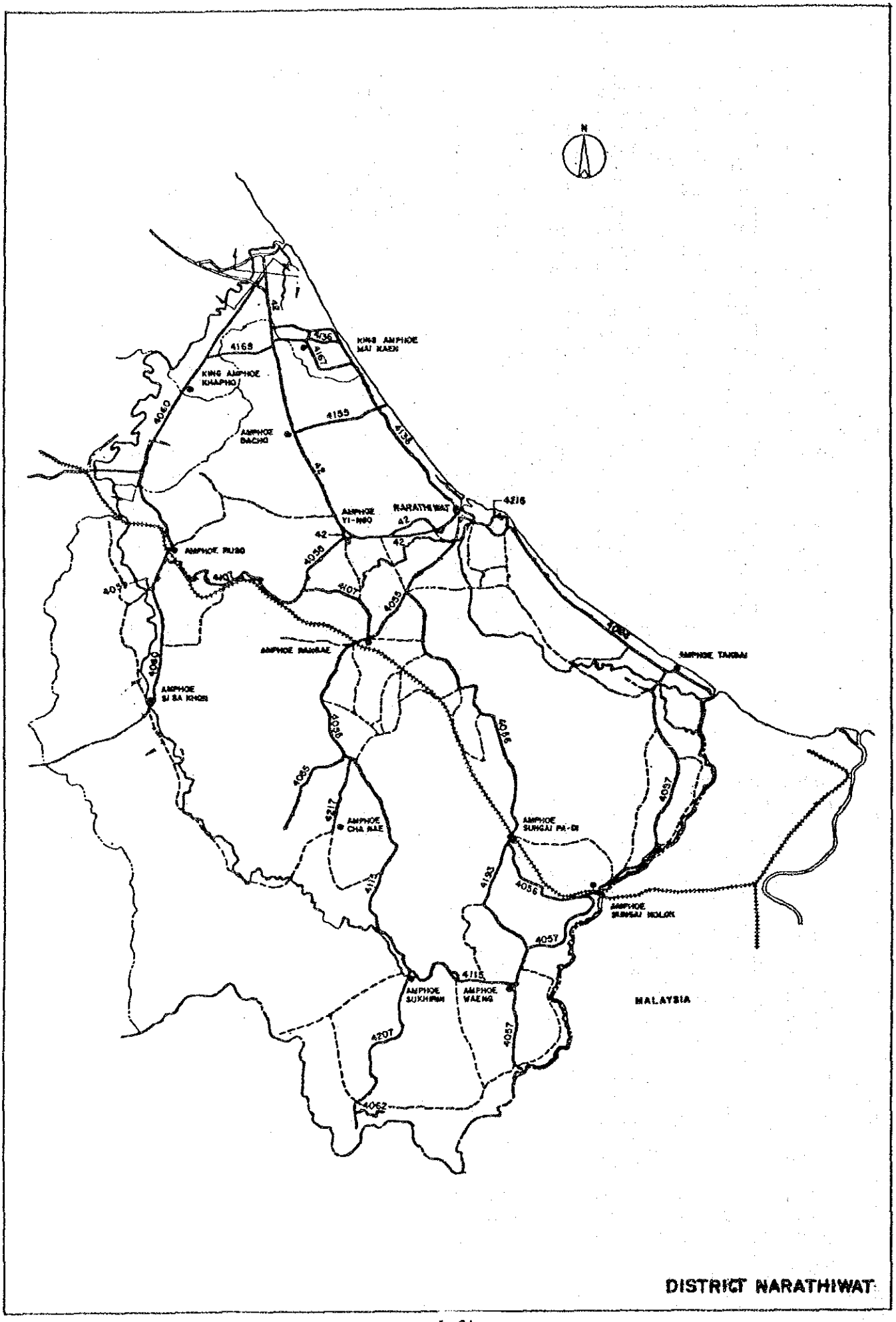
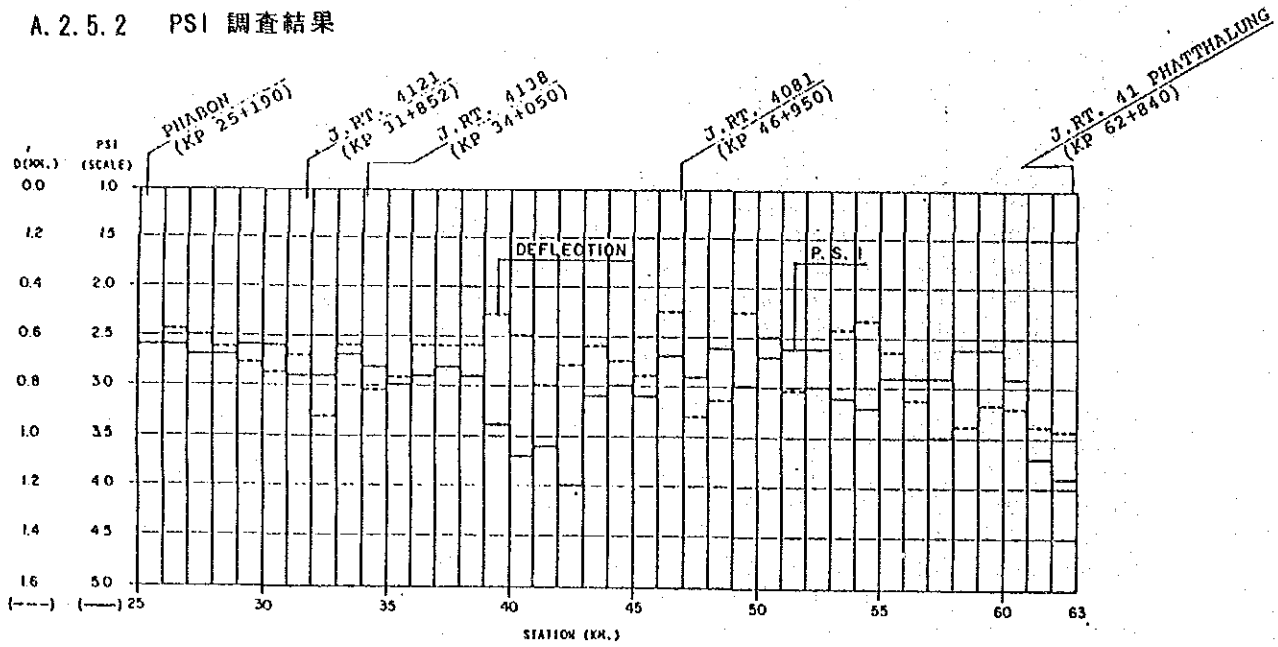


DISTRICT NARATHIWAT

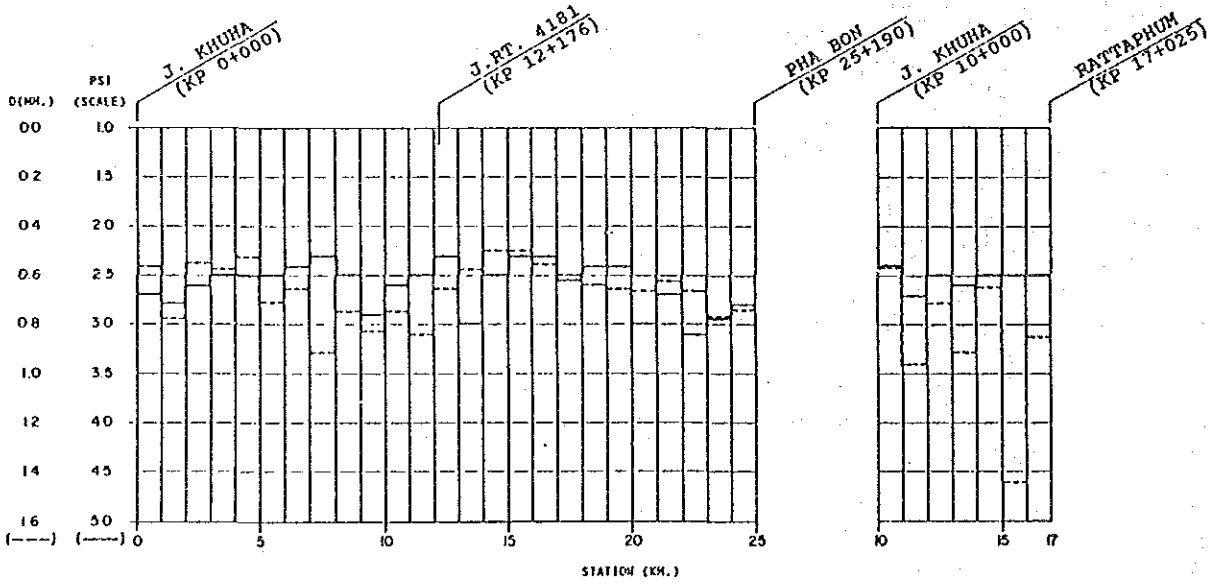
NARATHIWAT DISTRICT

RN	CSSN	FCC	LCS	WLS	WP	ST	PC	TWROW	MH	DHL	N7P	WP90	PR90	PRJCT
42	701	12	44527	225	650	7	3	6000		3	RH	650		
42	702	12	1985	225	650	7	1	3000		0		650		
42	703	13	2540	200	600	5	2	2000		0	IM	700	WD	
42	704	13	8235	0	600	4	0	3000		0		600		
4055	101	34	17550	100	600	5	1	3000	CR	3		1400	AD	
4055	102	34	15000	0	600	6	0	3000		3		600		
4055	200	34	12500	0	600	4	0	2000		3	PV	600		
4056	100	34	37900	200	600	7	2	3000		3	IM	600		
4056	201	32	16148	150	500	7	2	1300		3	IM	700	WD	
4056	202	34	2630	250	600	7	2	3000		0	IM	1400	AD	
4057	101	34	32382	175	550	7	1	3000	CR	3		650	WD	
4057	102	33	667	0	600	7	3	1600		2		650	WD	
4057	201	33	16803	150	500	7	2	3000		3		650	WD	
4057	202	34	10799	200	400	4	2	3000		1		650	WD	
4058	100	32	11547	150	500	4	2	3000		0		700	WD	
4059	100	35	600	0	800	2	2	1600		0		800		
4060	100	32	27600	150	500	4	2	3000		3		700	WD	
4060	200	35	30110	150	500	4	2	3000		2		700	WD	
4060	300	35	1800	0	500	4	0	0		0		700	WD	
4062	600	34	6443	0	500	4	0	0		0		700	WD	
4084	100	34	38013	175	550	7	2	4000		0	IM	550		
4107	200	36	20499	0	600	4	2	2000		0		700	WD	
4107	300	33	11594	0	600	4	3	1600		3		600		
4115	100	36	19375	0	600	2	3	3000		3	PV	650	WD	
4115	200	36	12461	0	600	2	3	4000		3	PV	600		
4115	300	34	14650	100	500	4	2	4000		2	IM	650	WD	
4136	100	34	13943	100	500	4	2	3000		0	IM	650	WD	
4136	201	34	17809	0	550	4	2	0		0		900	WD	
4136	202	34	4075	0	550	4	0	0		3		900	WD	
4136	203	34	1235	0	550	4	0	0		3		900	WD	
4155	100	34	10896	100	500	4	3	3000		0	IM	550	WD	
4167	100	34	12076	100	500	4	2	3000		3		650	WD	
4168	100	34	8105	100	500	4	2	3000		2		650	WD	
4193	100	32	15772	0	800	4	1	3000	CB	3		800		
4207	100	35	25340	0	800	5	3	4000		3	PV	800		
4216	101	33	1975	0	600	7	0	0		0		600		
4216	102	34	363	0	550	7	0	0		0		550		
4216	103	34	2422	0	550	7	0	0		0		550		
4217	100	34	9201	0	550	4	0	0		3		650	WD	

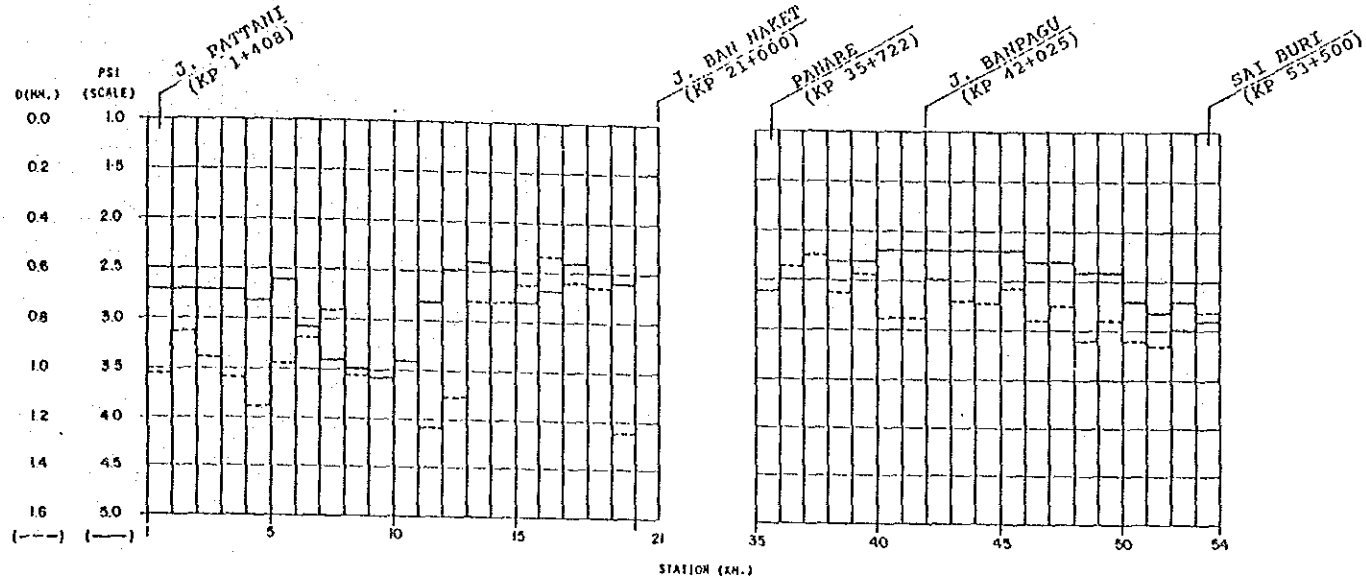
A.2.5.2 PSI 調査結果



ROUTE 4-4000

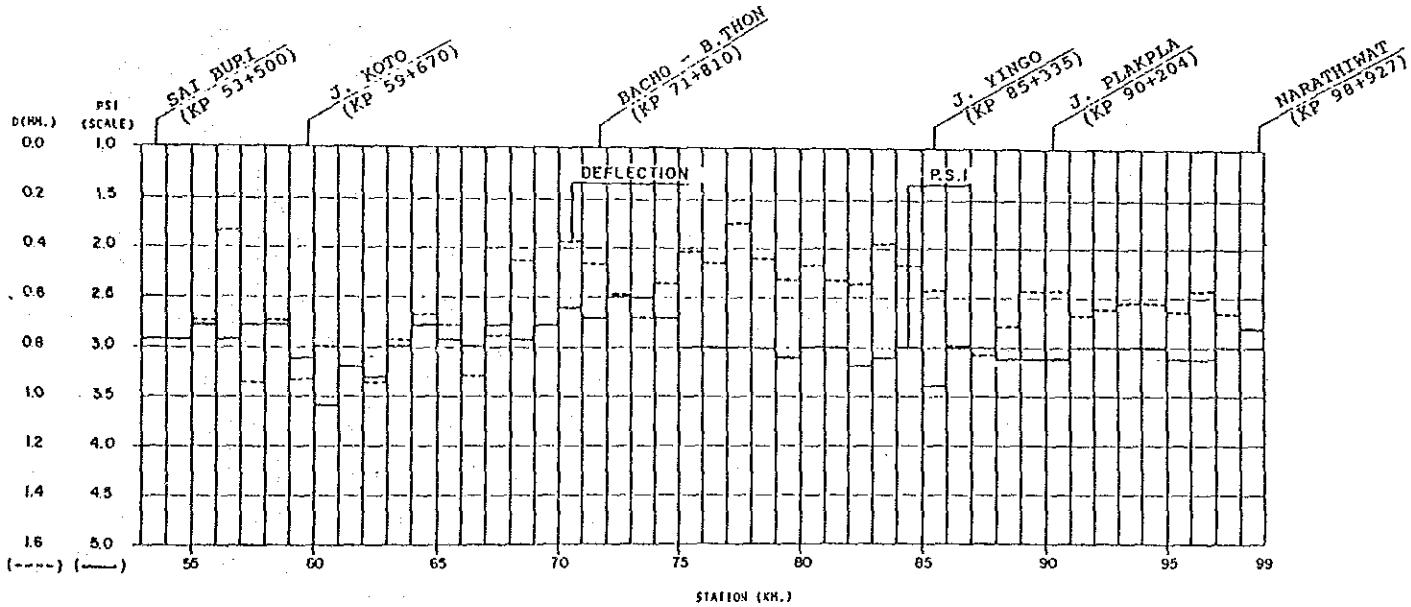


ROUTE 4-4100 ROUTE 4-4200



ROUTE 42-0400

ROUTE 42-0601



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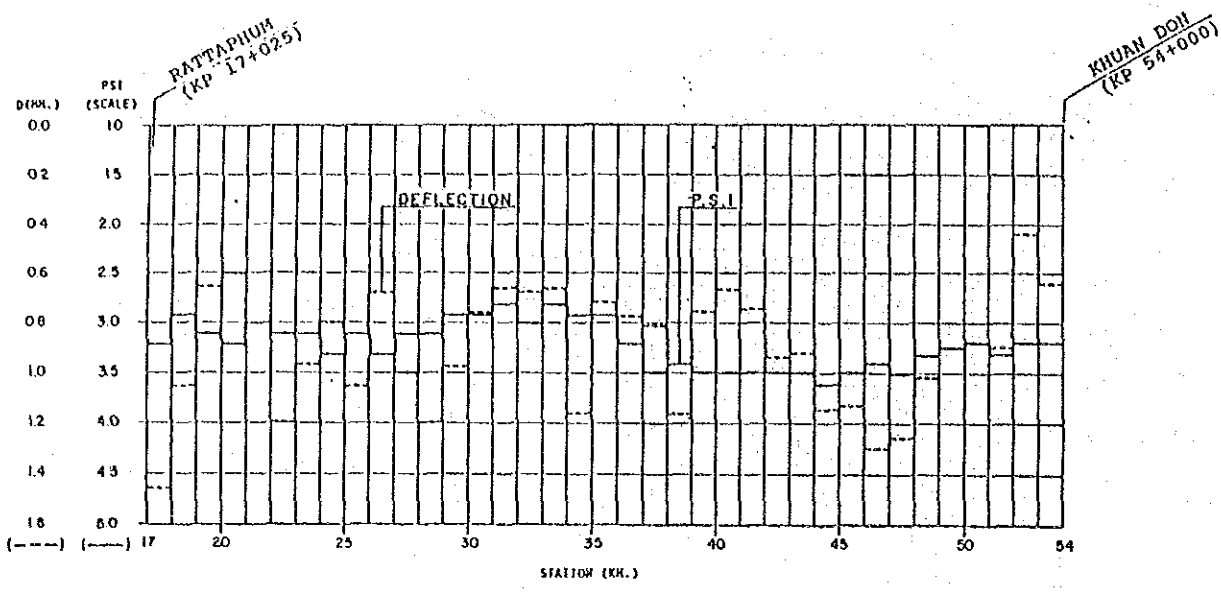

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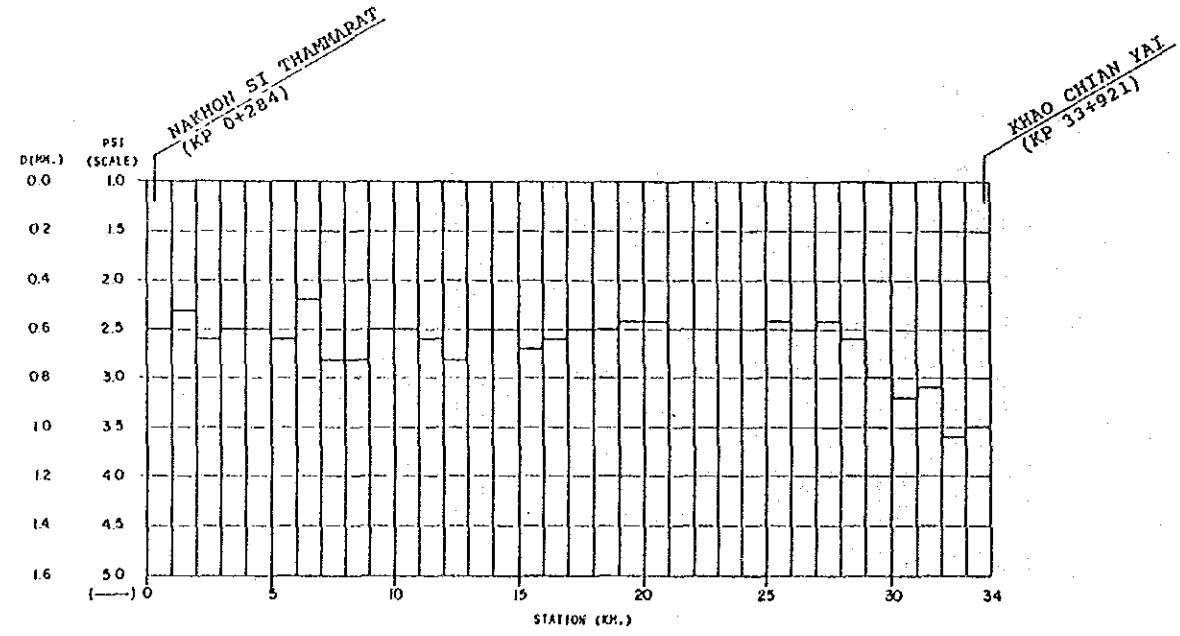

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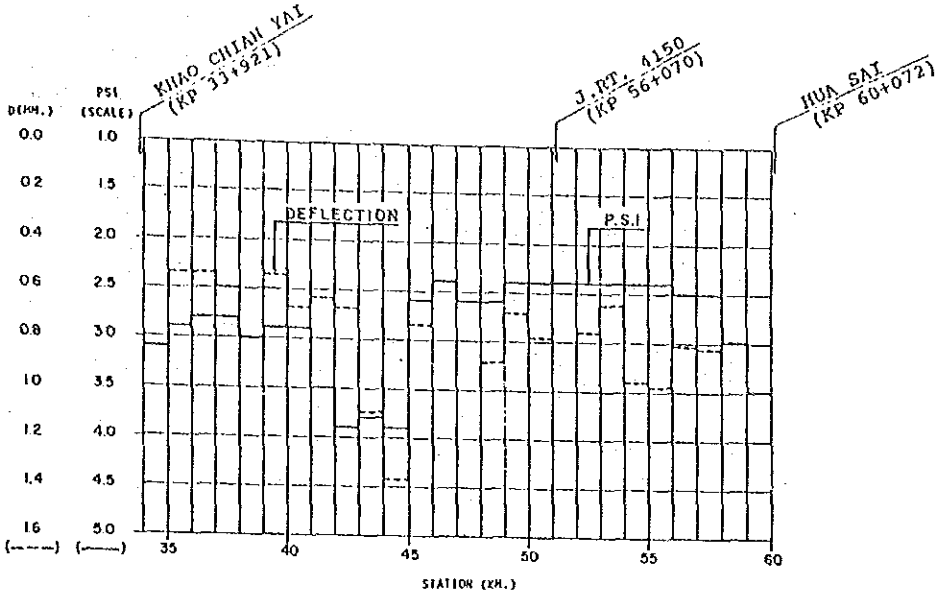

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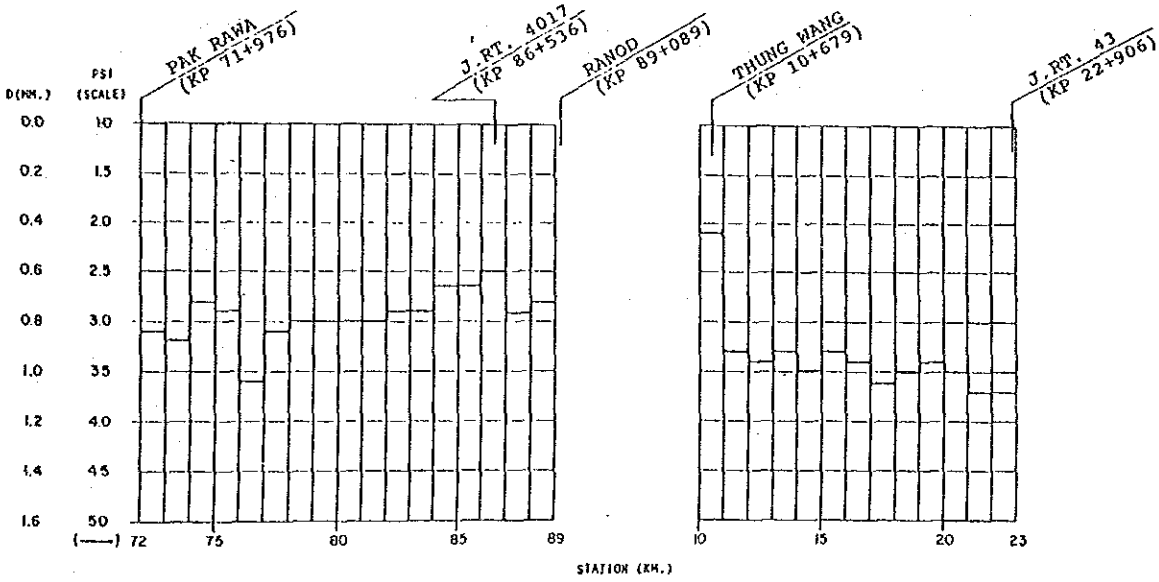
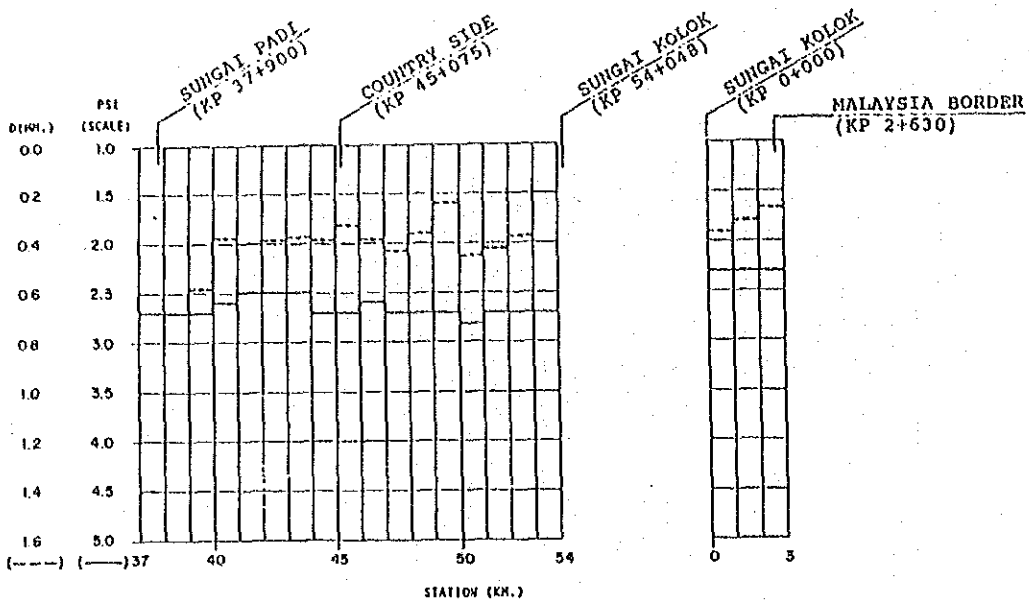


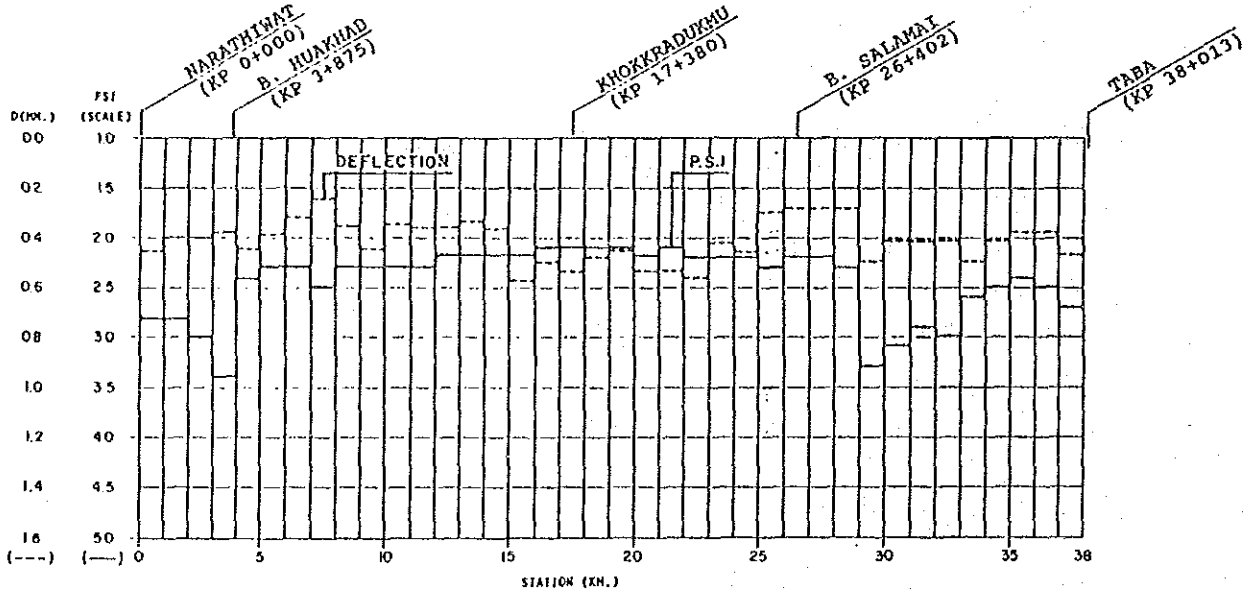
ROUTE 408-0302

ROUTE 408-0701



ROUTE 4056-0201

ROUTE 4056-0202



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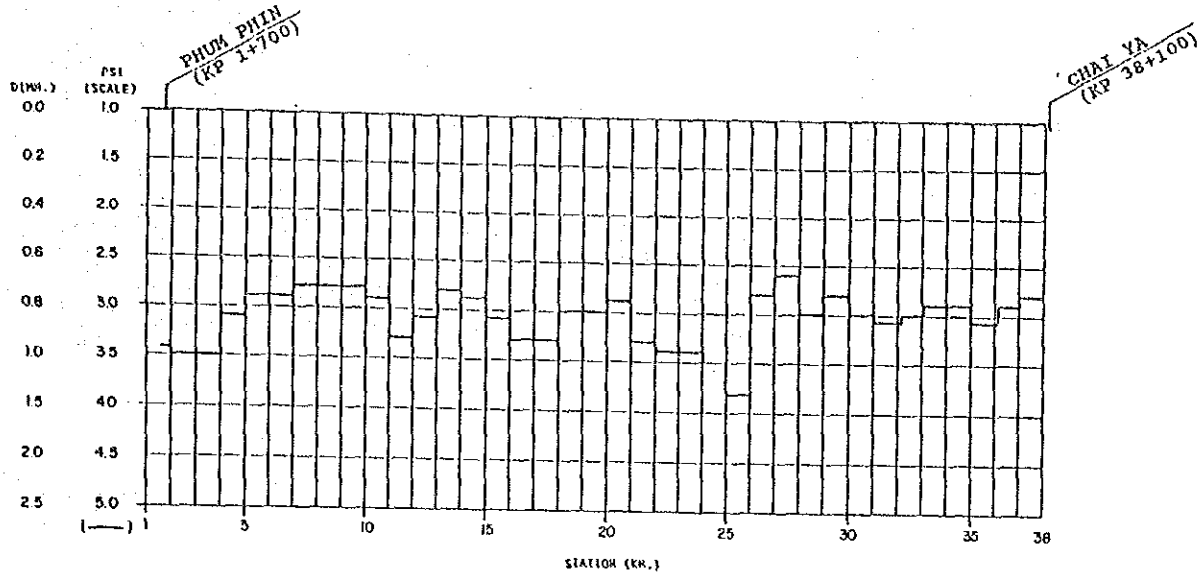

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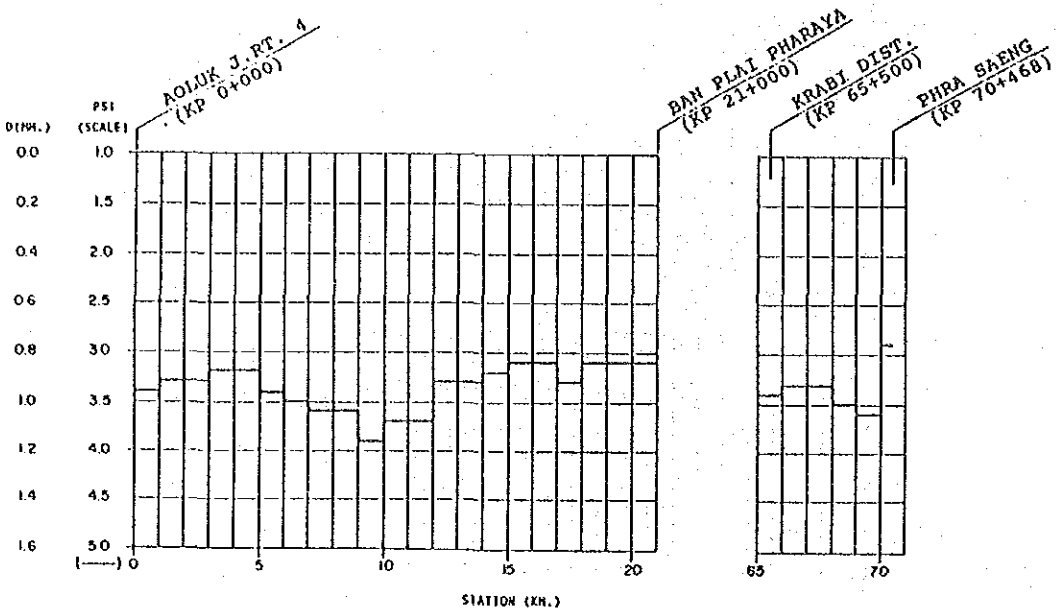
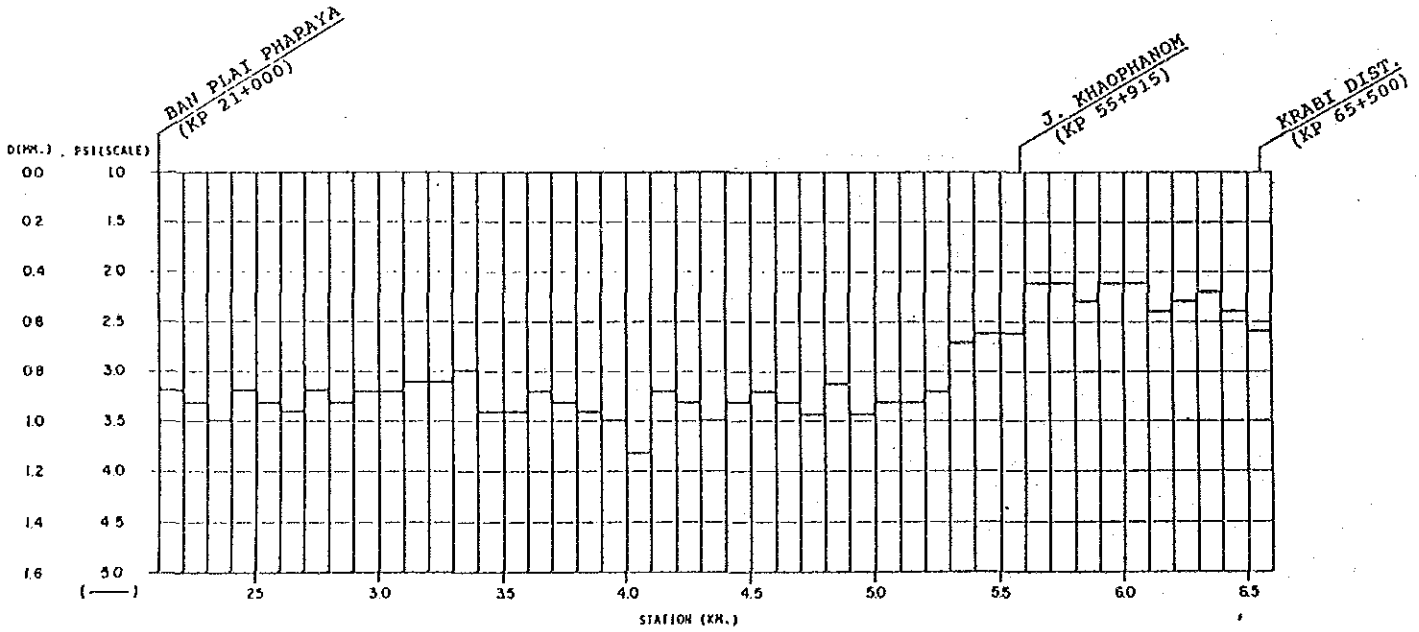


ROUTE 4035-0100 ROUTE 4035-0300



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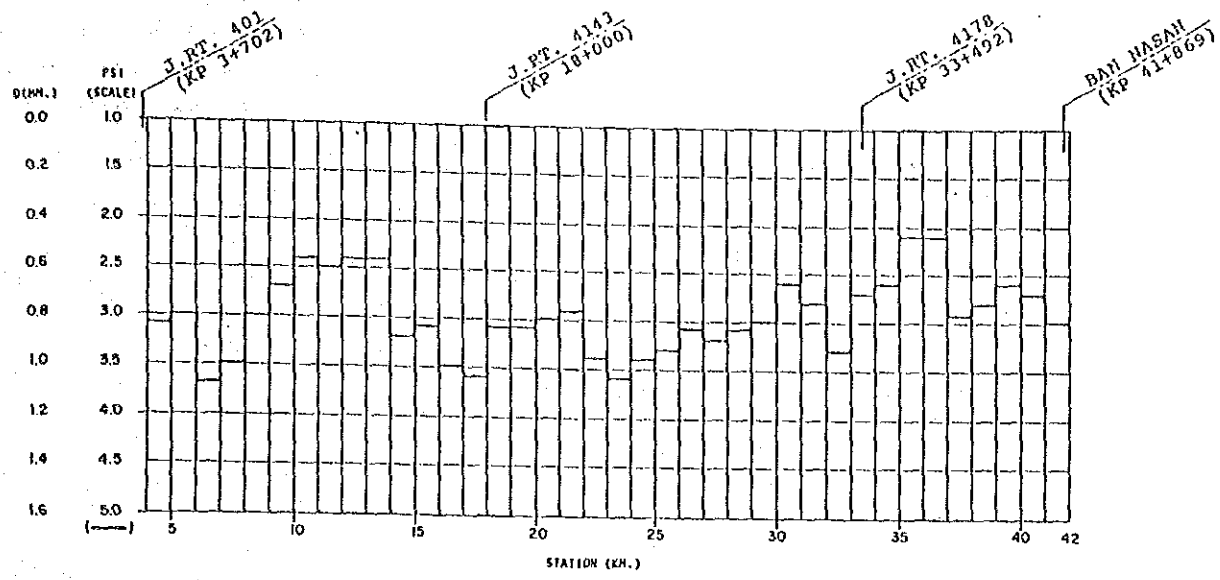

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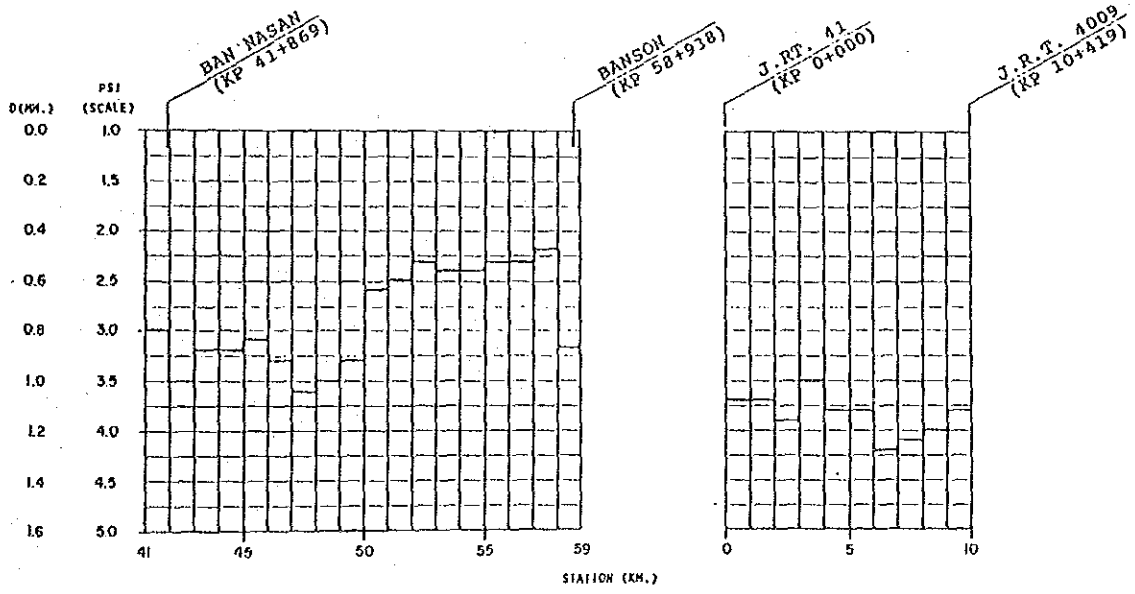
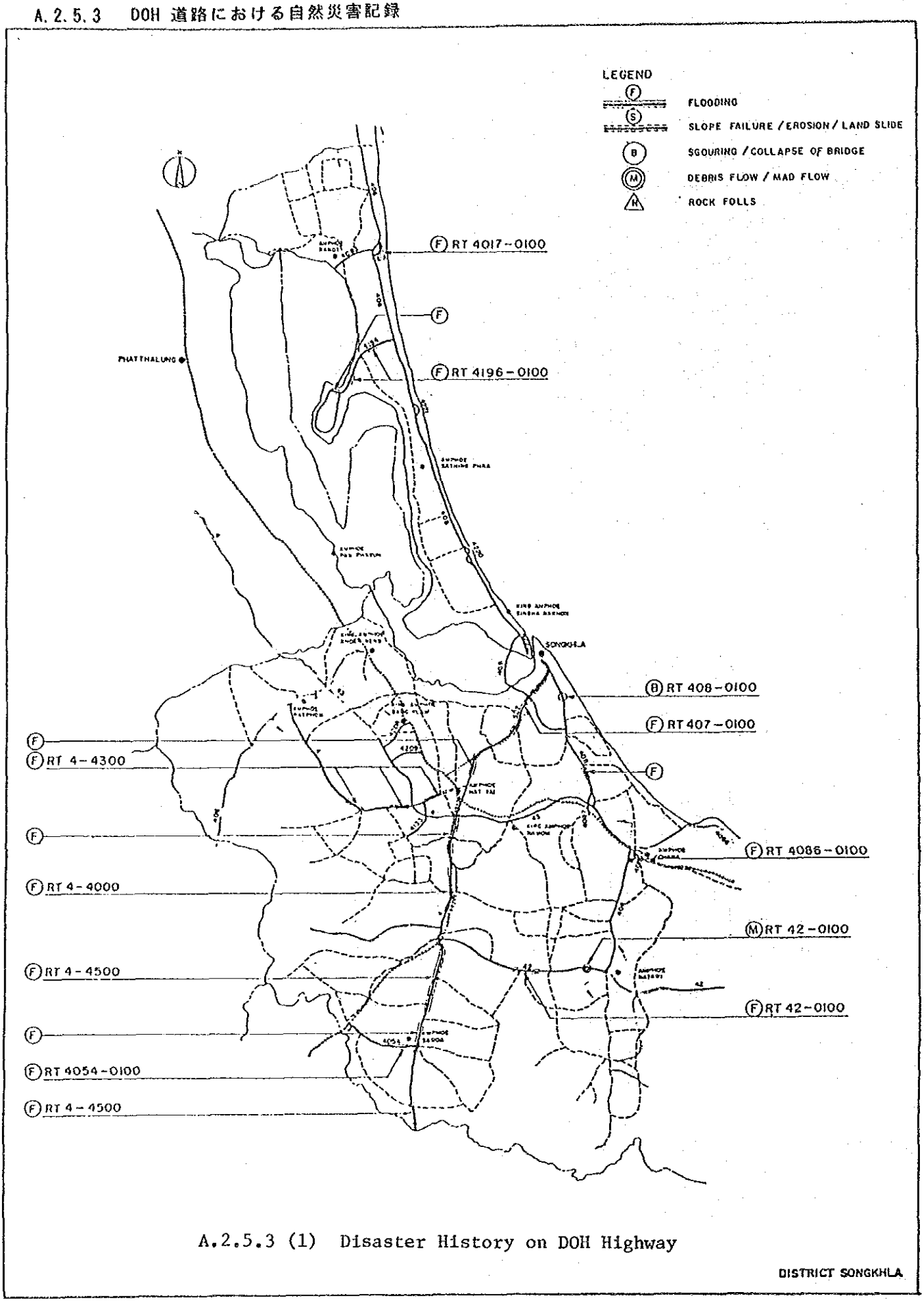


ROUTE 4009-0201

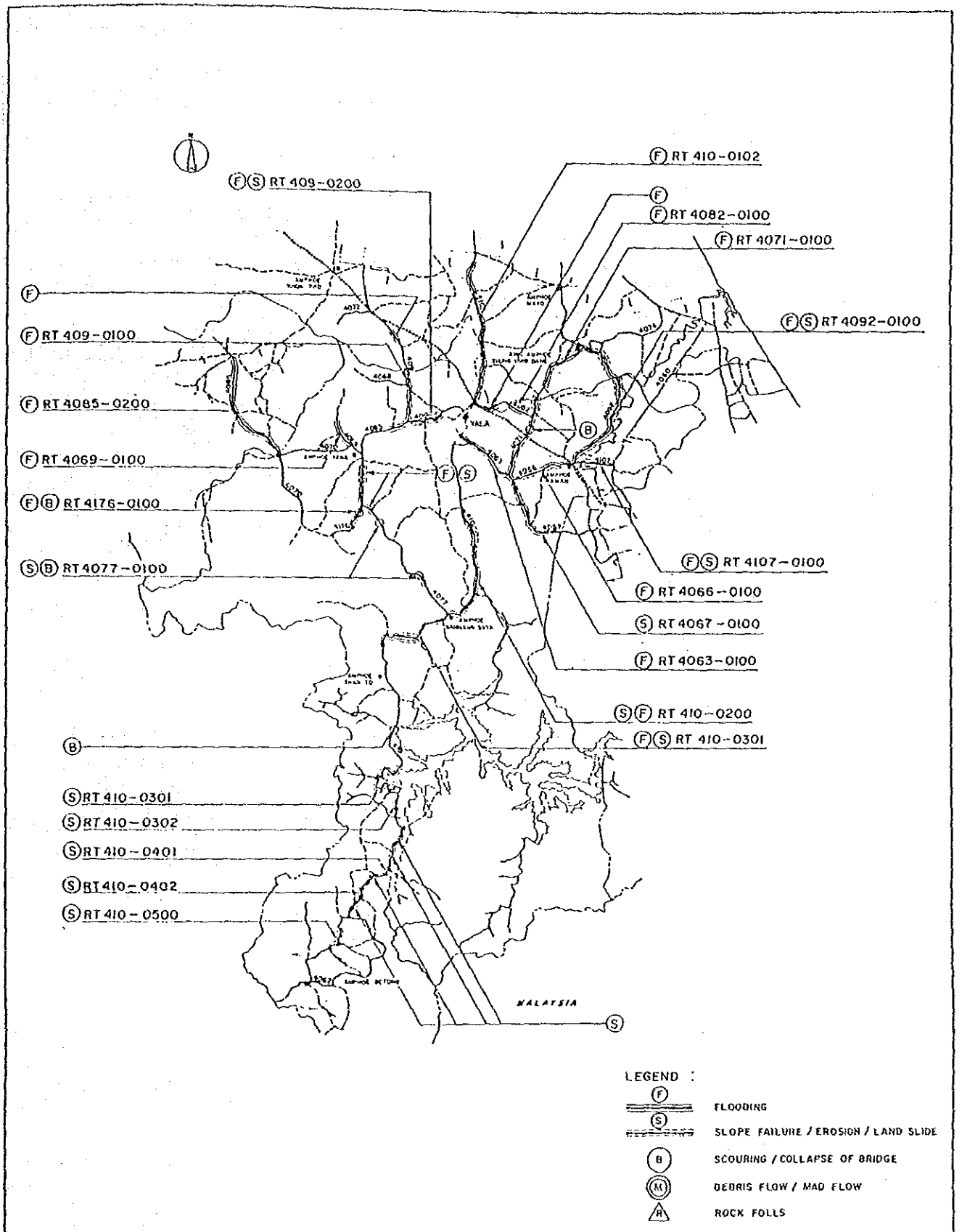
ROUTE 4178-0100

A.2.5.3　DOH 道路における自然災害記録



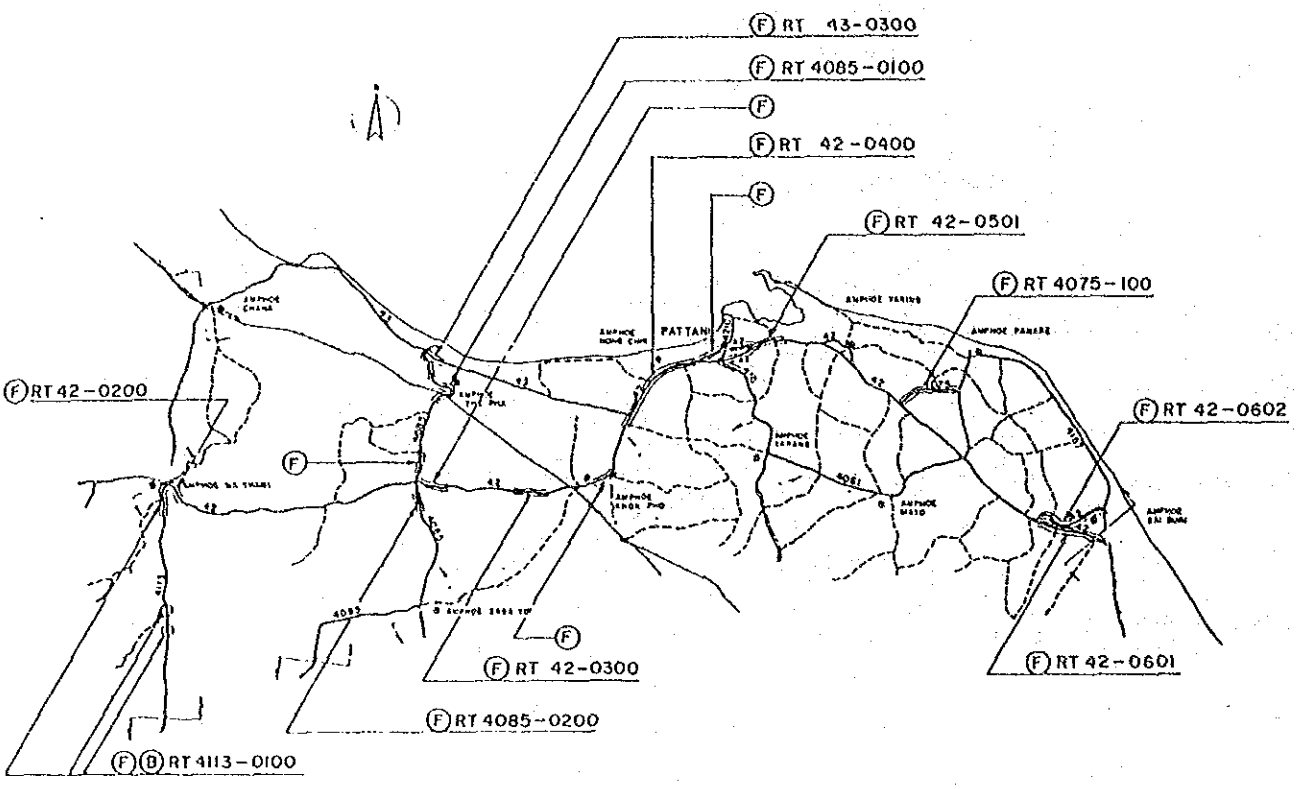
A.2.5.3 (1)　Disaster History on DOH Highway

DISTRICT SONGKHLA



A.2.5.3 (2) Disaster History on DOH Highway

DISTRICT YALA

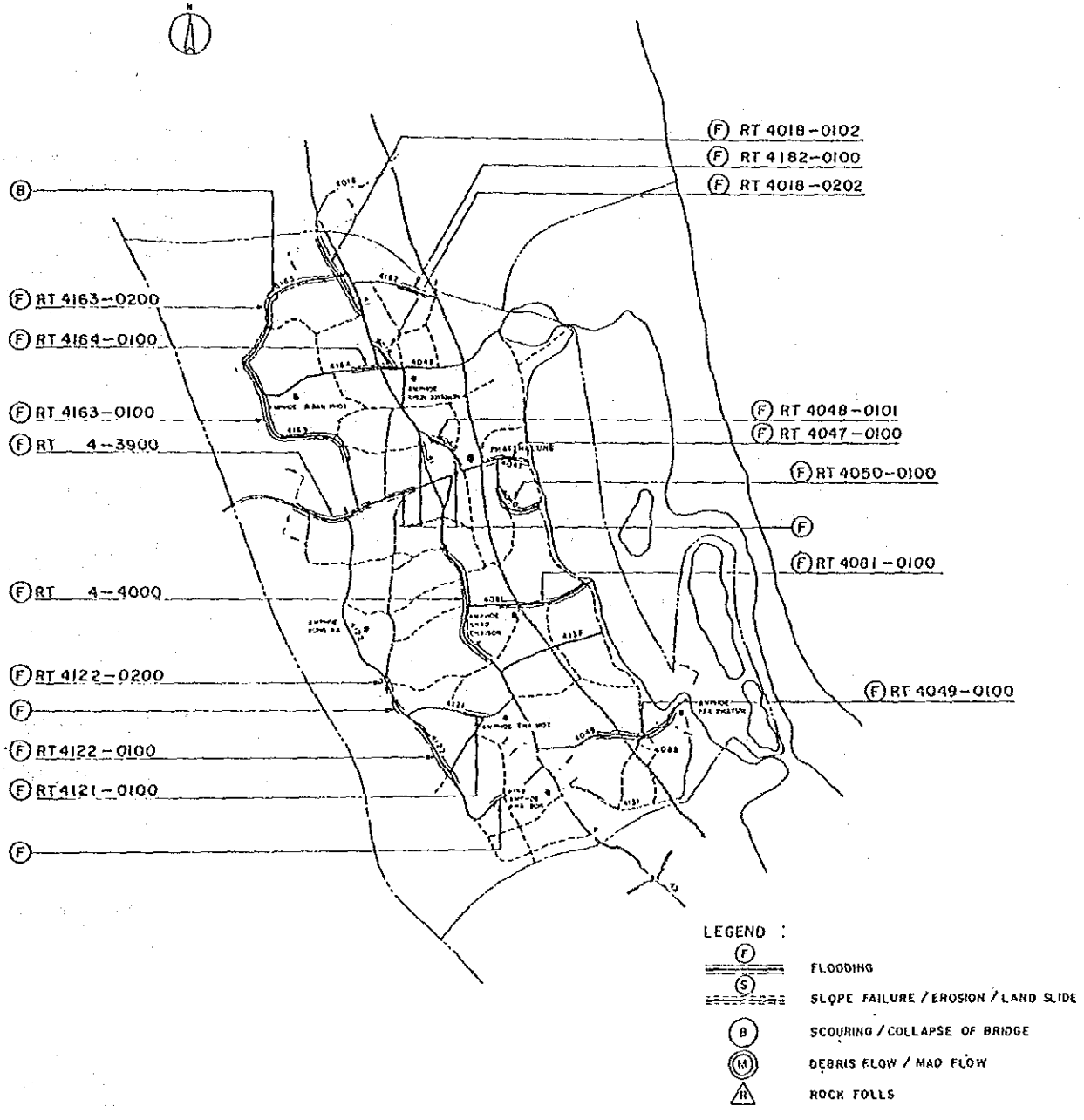


LEGEND :

- (F) FLOODING
- (S) SLOPE FAILURE / EROSION / LAND SLIDE
- (B) SCOURING / COLLAPSE OF BRIDGE
- (M) DEBRIS FLOW / MAD FLOW
- (R) ROCK FOLLS

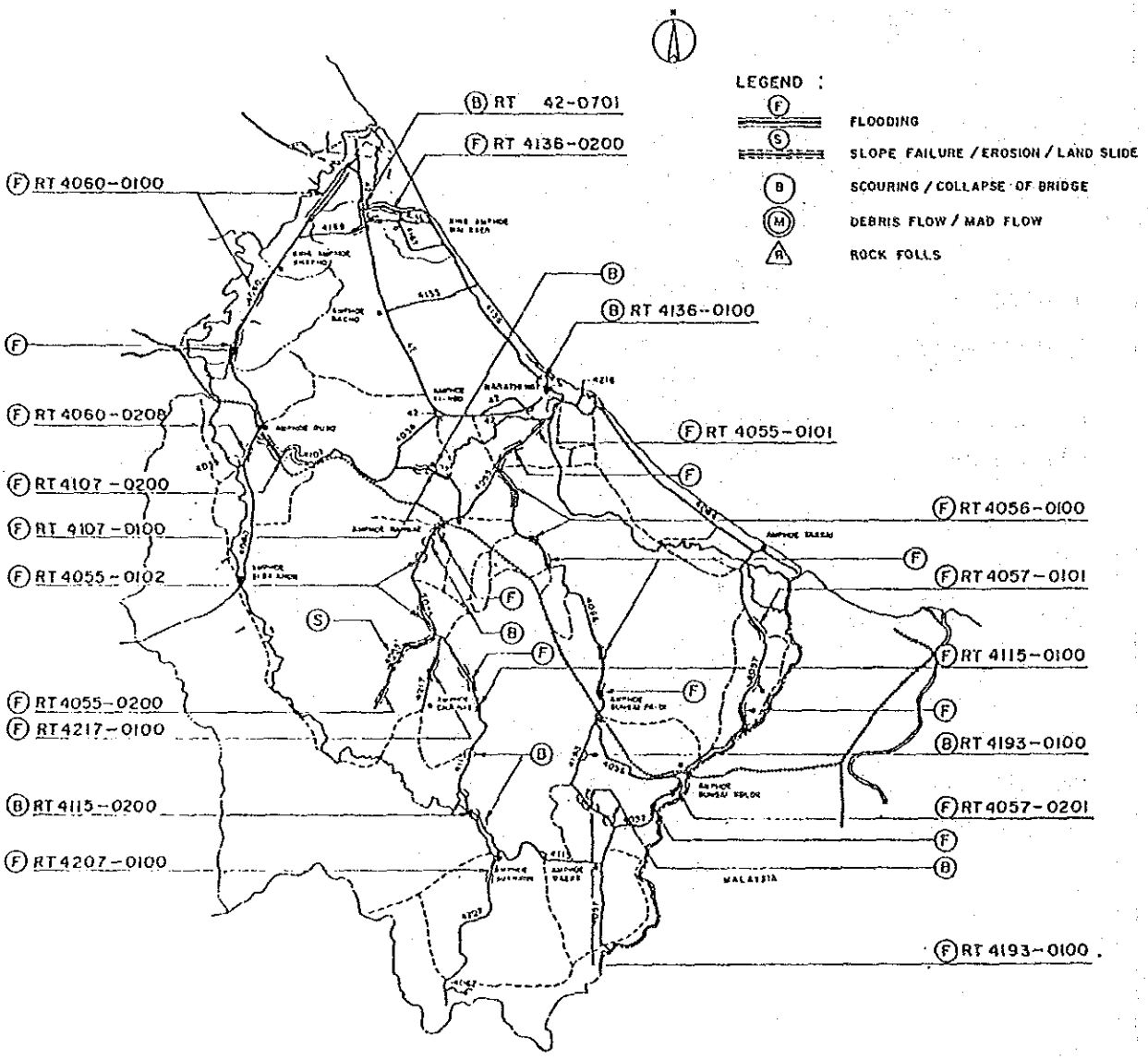
A.2.5.3 (3) Disaster History on DOH Highway

DISTRICT PATTANI



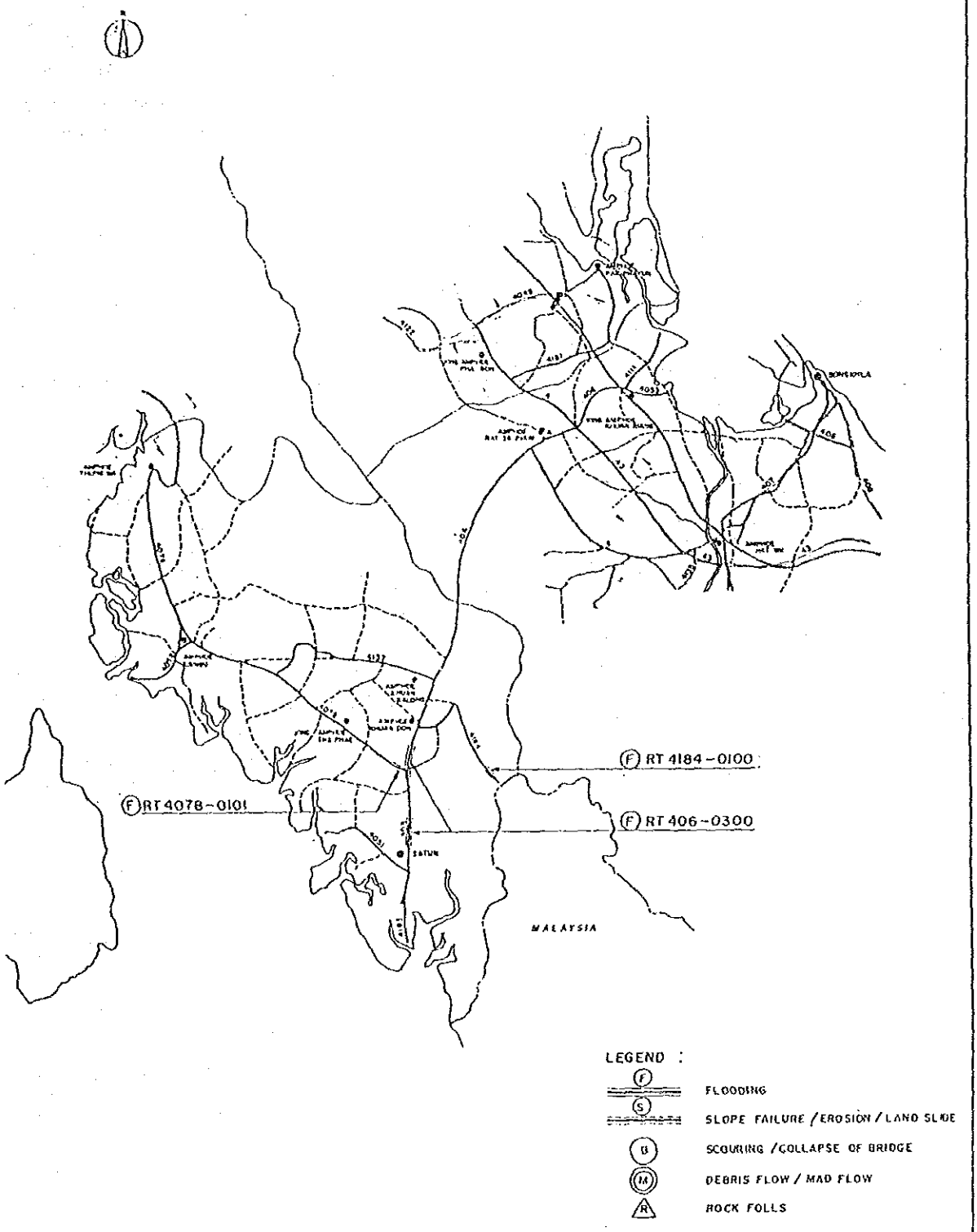
A.2.5.3 (4) Disaster History on DOH Highway

DISTRICT PHATTHALUNG



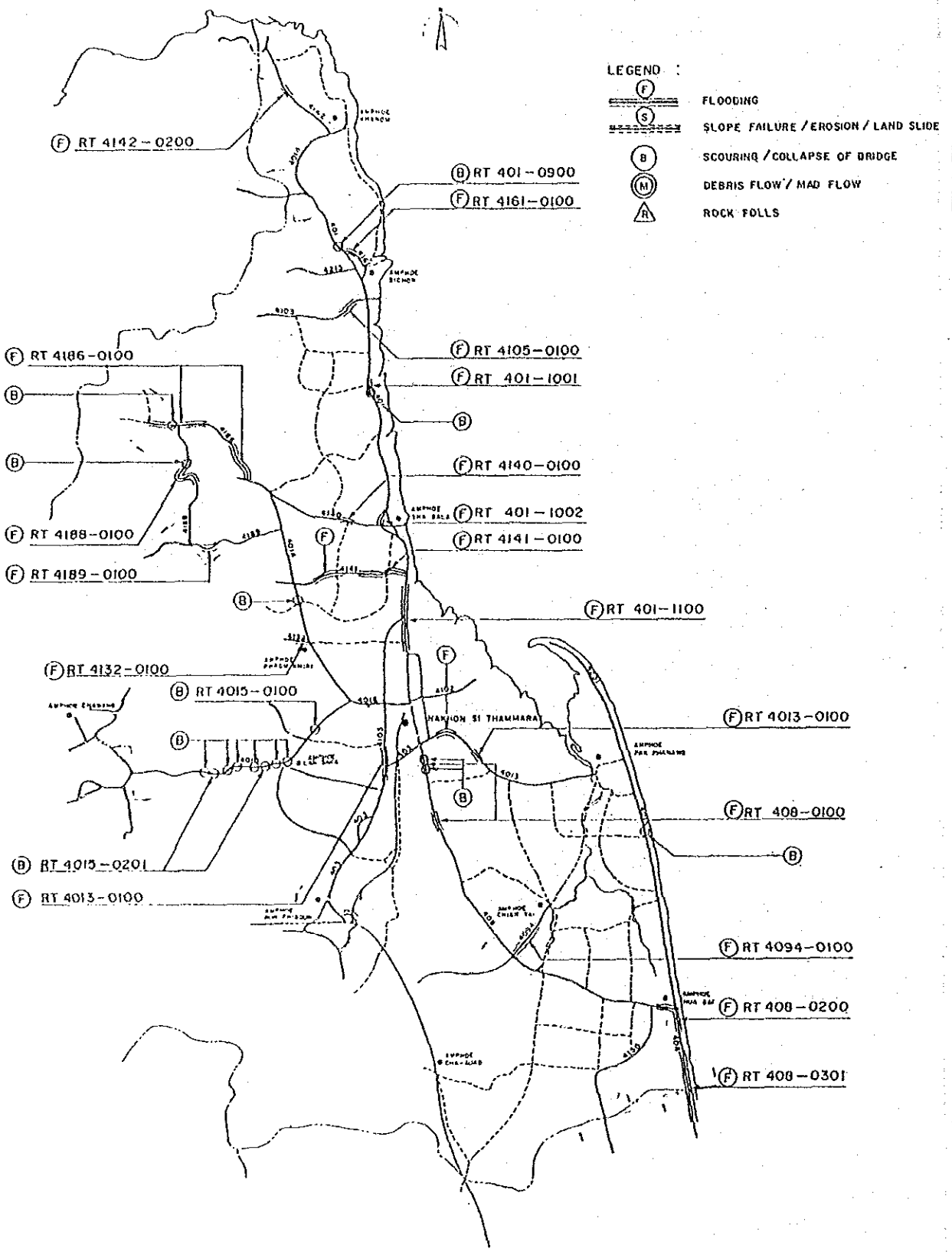
A.2.5.3 (5) Disaster History on DOH Highway

DISTRICT NARATHIWAT



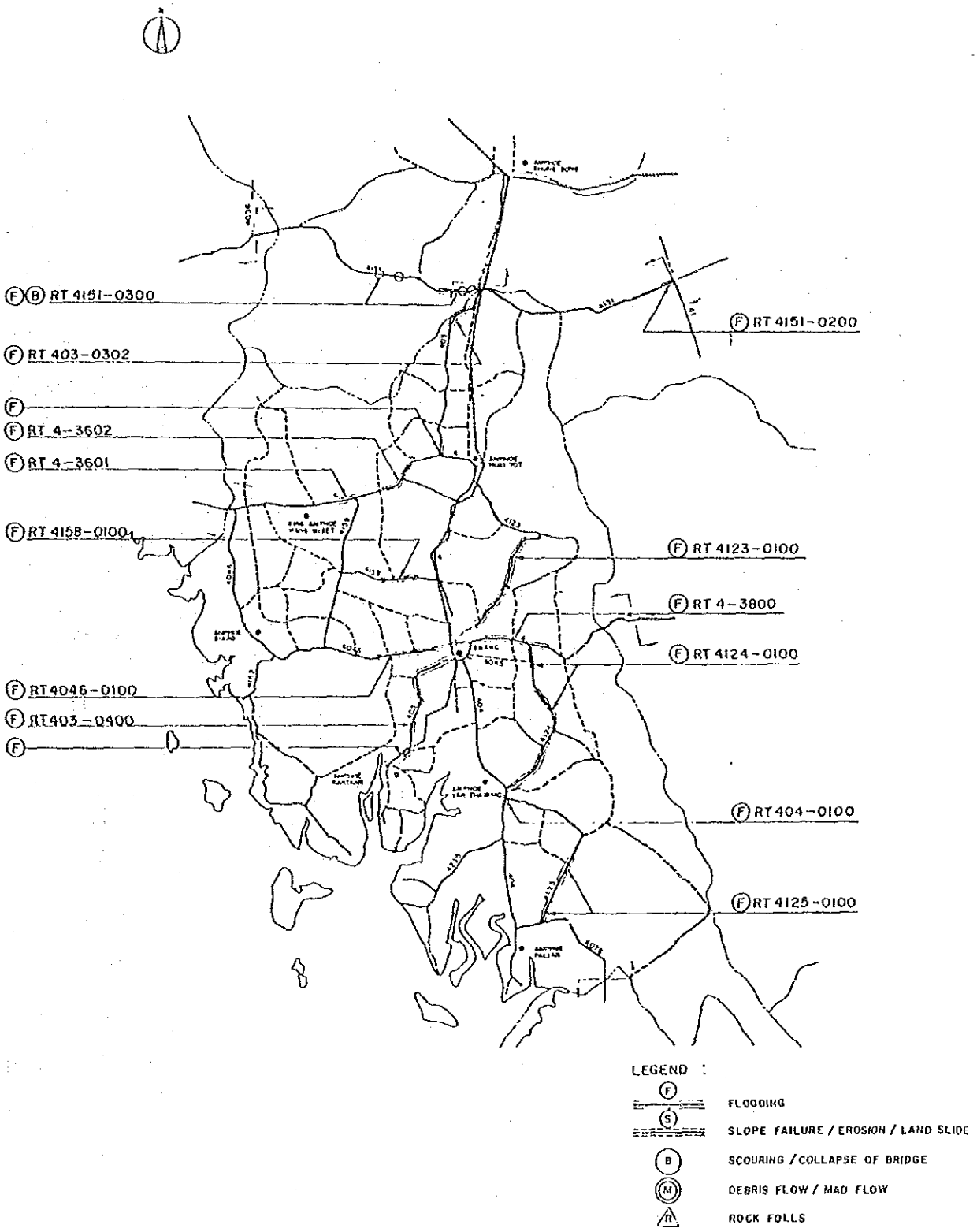
A.2.5.3 (6) Disaster History on DOH Highway

DISTRICT-SATUN



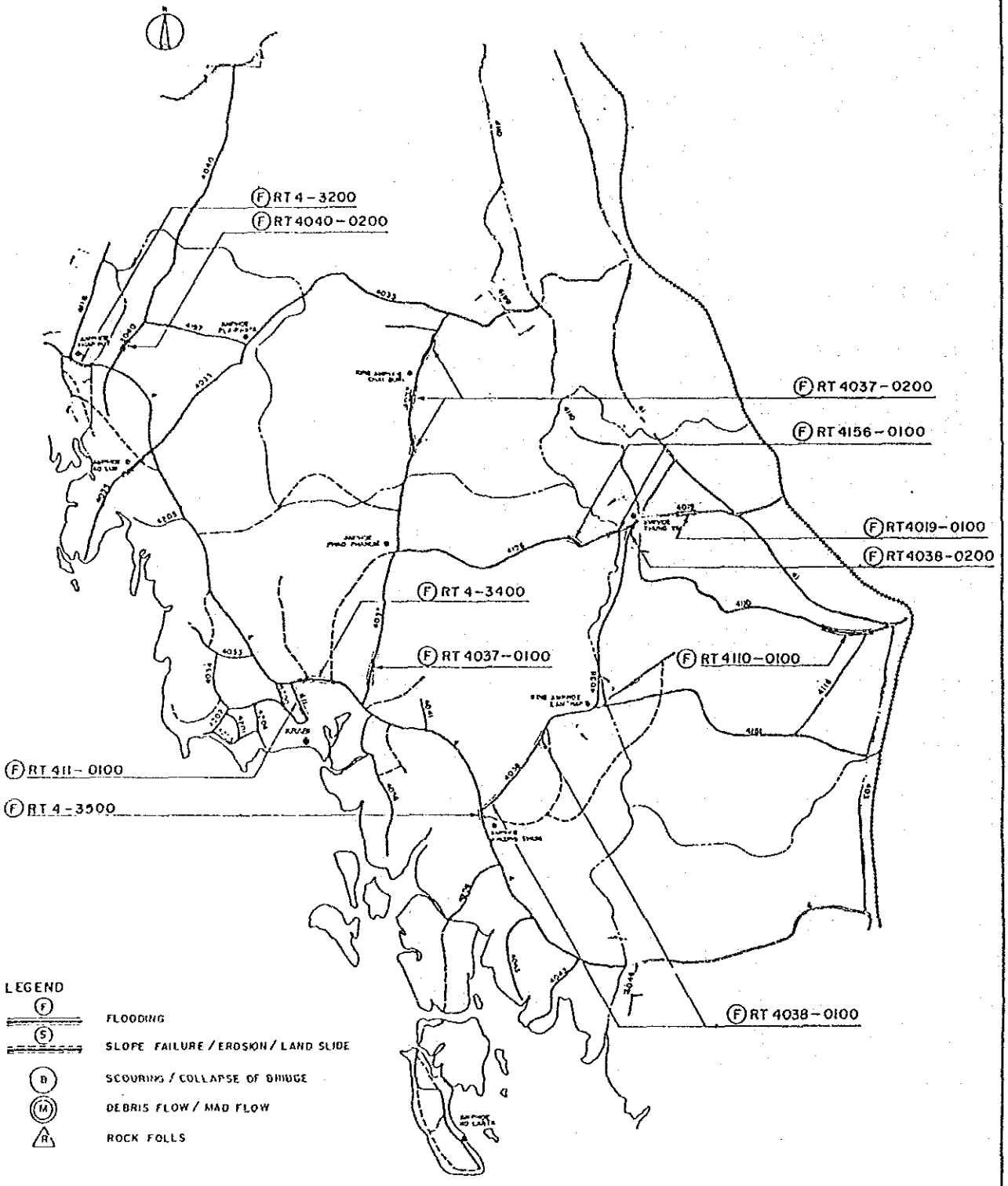
A.2.5.3 (7) Disaster History on DOH Highway

DISTRICT NAKHON SI THAMMARAT



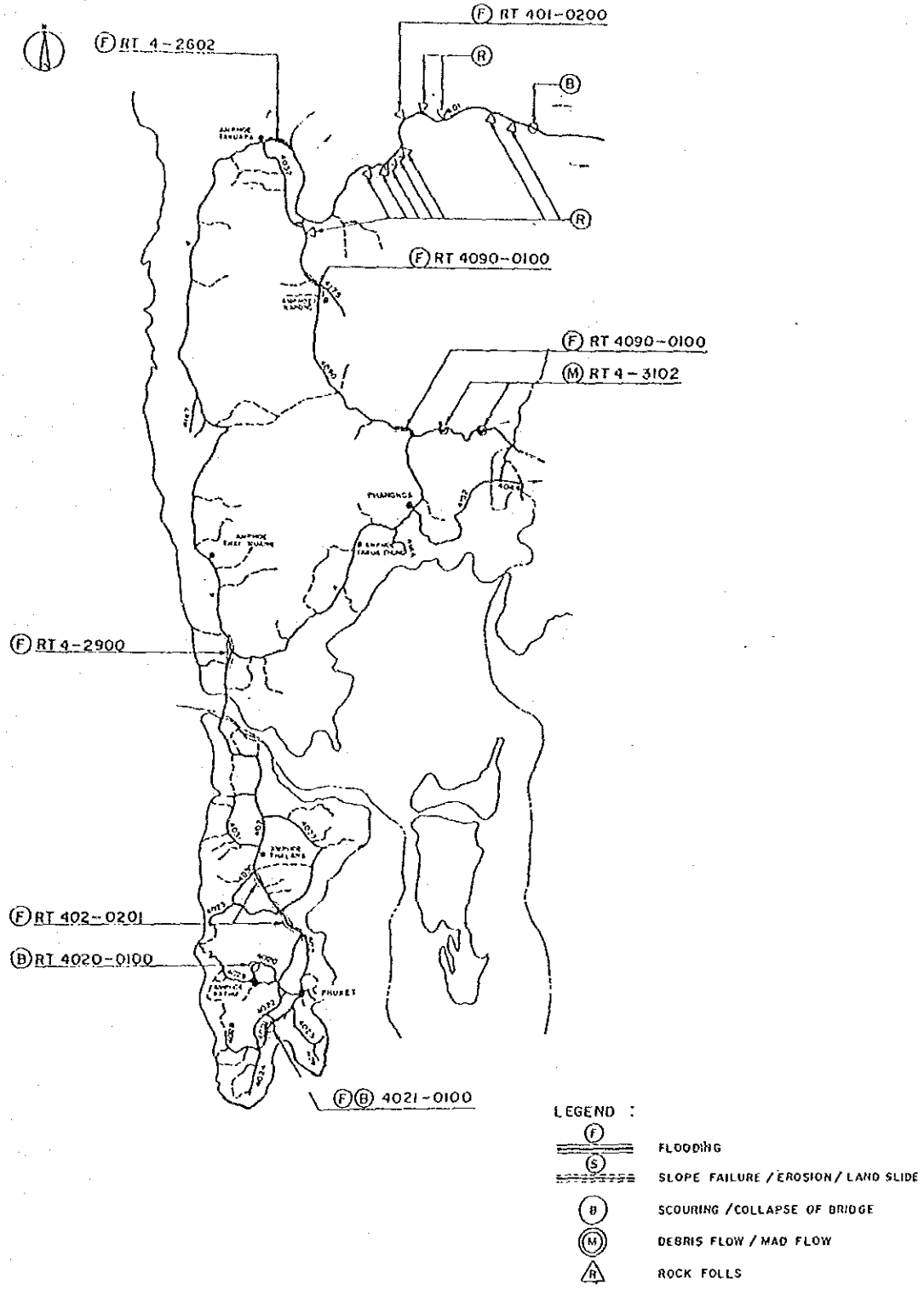
A12.5.3 (8) Disaster History on DOH Highway

DISTRICT TRANG



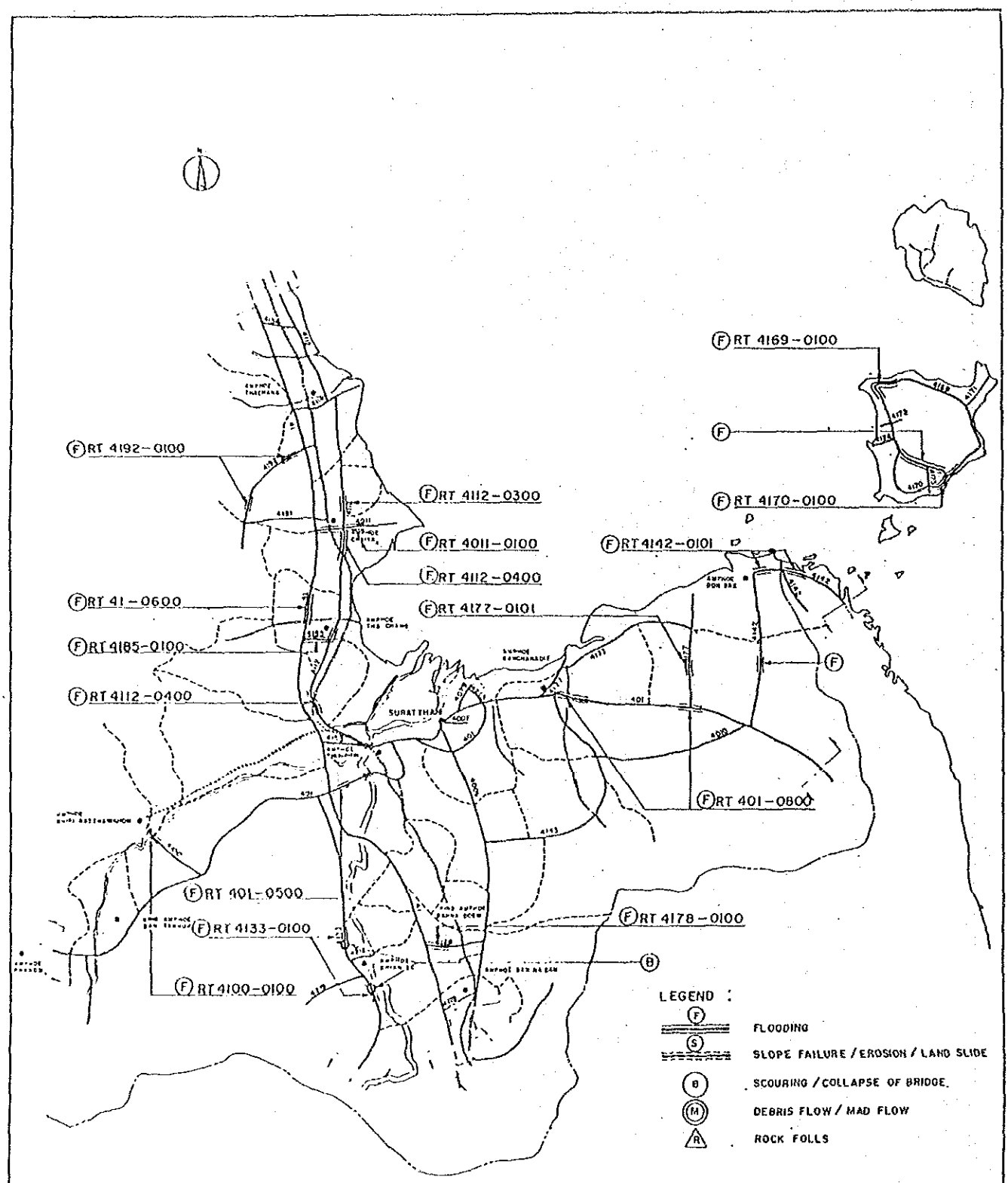
A.2.5.3 (9) Disaster History on DOH Highway

DISTRICT KRABI



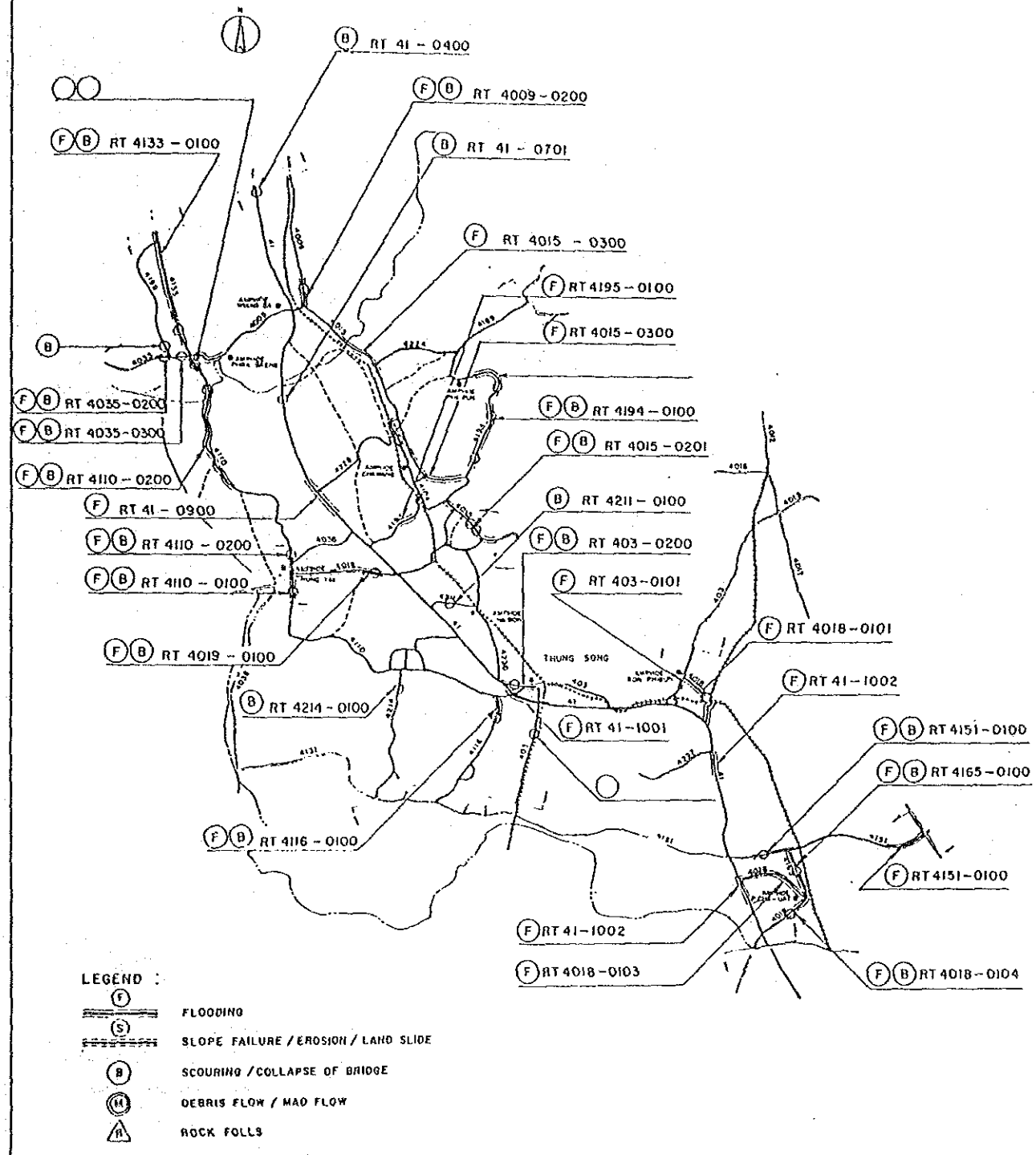
A.2.5.3 (10) Disaster History on DOH Highway

DISTRICT PHUKET



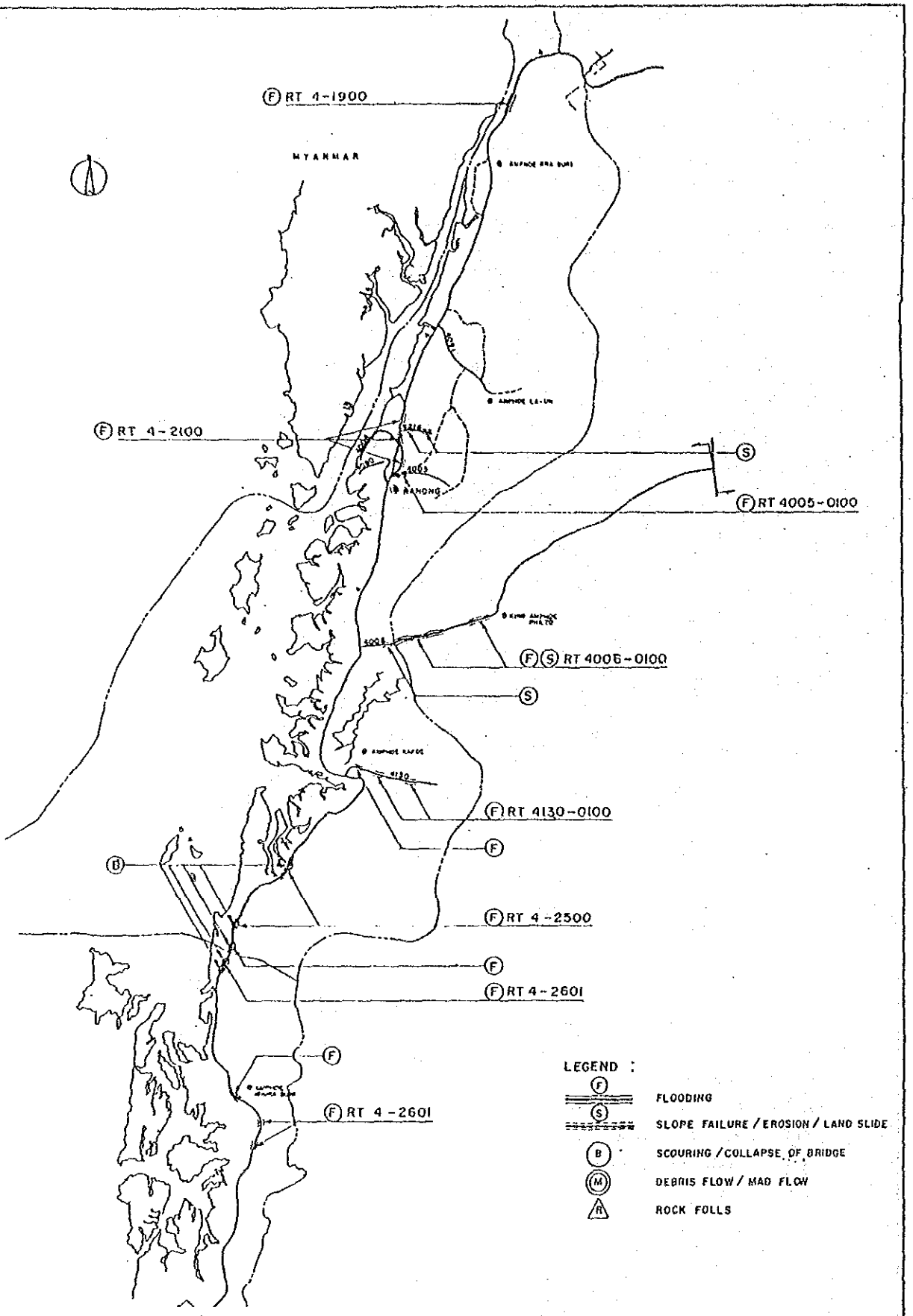
A.2.5.3 (11) Disaster History on DOH Highway

DISTRICT SURATTHANI



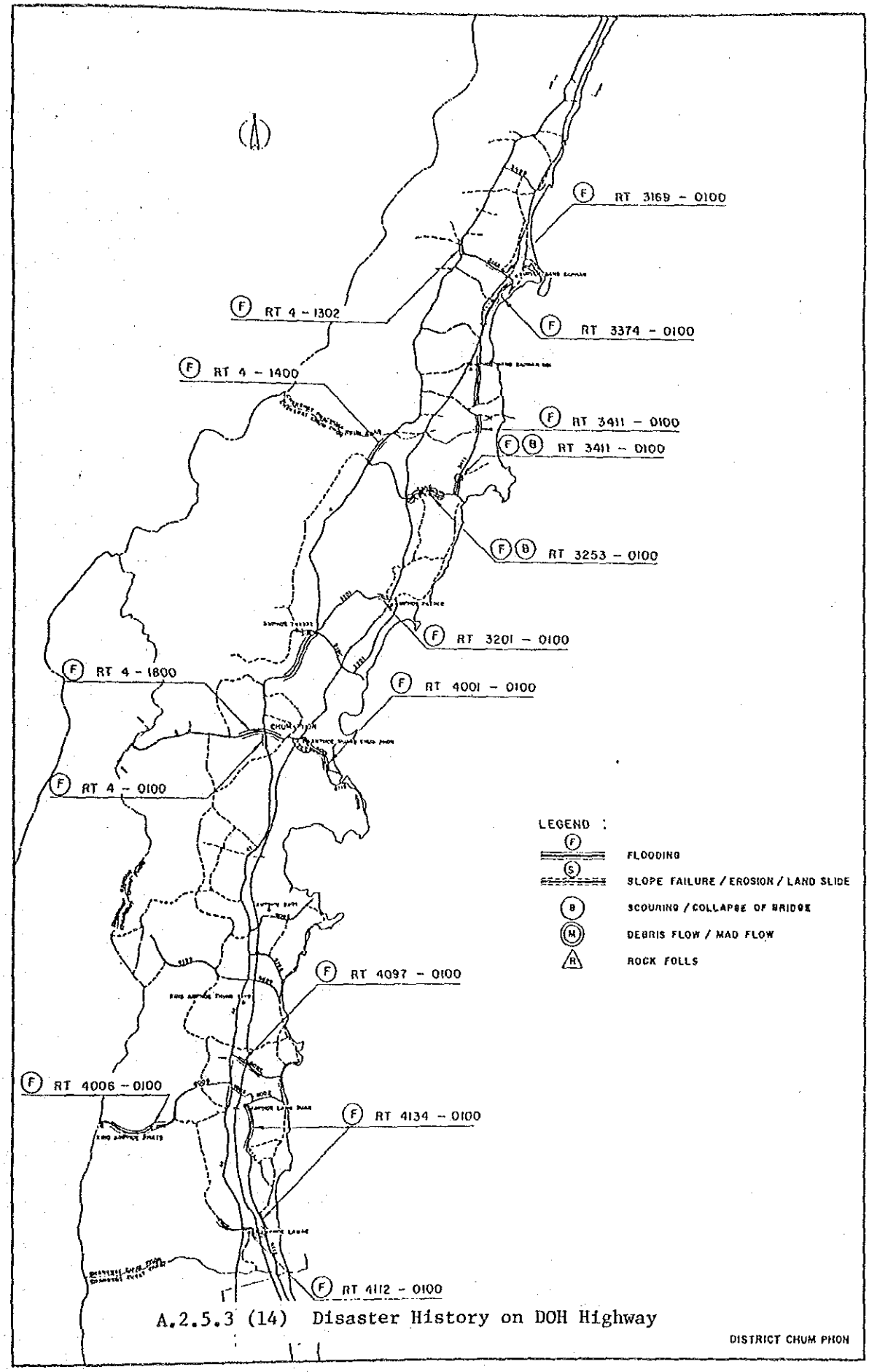
A.2.5.3 (12) Disaster History on DOH Highway

DISTRICT THUNG SONG



A.2.5.3 (13) Disaster History on DOH Highway

DISTRICT-RANONG



A.2.5.3 (14) Disaster History on DOH Highway

DISTRICT CHUM PHON

A.2.5.4 CBR テスト結果

ROUTES LIST

Route	Control Section	Road Name	Length (km)	Width of Pavment (m.)
4	4000	PHATTHALUNG MUNICIPAL - J. TO PAK PHA YUN (DIST. SATUN)	40.038	7.0
4	4100	J. TO PAK PHAYUN (DIST. PHATTHALUNG) - J. KHUHA	25.190	7.0
4	4200	J. KHUHA - J. THACHAMUANG (DIST. SONGKHLA)	7.025	7.0
42	0400	J. BAN NAKET - J. TASSABAN PATTANI	19.592	7.0
42	0601	J. TO A PANARE - I TO A. SAI BURI	17.778	7.0
42	0701	J. TO A. SAIBURI L - J. A. MUANG NARATHIWAT	44.527	7.0
406	0200	J. THACHAMUANG - J. TO NIKOM KHUAN KALONG (TUNG THAMSAO)	36.975	6.0
408	0100	DISTRICT BOUNDARY - INTERSECTION TO KHAU CHIANG YAI	33.637	6.0
408	0200	KHAU CHIANG YAI - HUA SAI	26.151	6.0
408	0302	DIST. NAKHON SI THAMMARAT - J. TO RANOT	17.113	6.0
408	0701	INTERSECTION THUNG WANG - R. 43	12.227	6.0
4009	0100	SURATTHANI MUNICIPAL - BAN NASAN MUNICIPAL	40.869	6.0
4009	0201	BAN NASAN - BANSONG	17.069	6.0
4035	0100	J. ROUTE 4 (AO LUK) - BAN PLAIPHARA YA	21.000	6.0
4035	0200	BAN PLAI PHARAYA - AMPHOE PHARA SAENG	44.500	6.0
4035	0300	DISTRICT KRABI - PHAR SAENG	4.968	6.0
4056	0201	A. SUNGAI PADI (RR) - A. SUNGAI KOLOK	16.148	6.0
4056	0202	JR 4056 0201 (KM 52+540) - MALAYSIA BORDER	2.630	6.0
4084	0100	C. NARATHIWAT - B. TABA	38.013	6.0
4112	0400	CHAI YA - THA CHANG - PHUN PHIN	36.400	5.0
4178	0100	J.R. 41 (NAM KLIANG) - R. 4009 (NONG DUK)	10.419	5.0

LOCATION FOR CBR SAMPLING

Route-Control Section	Kilo-post for Sampling (kilometers)	No. of Samples
4-4000	32, 39, 43, 54, 61	5
4-4100	13, 22	2
4-4200	13	1
42-0400	11, 16	2
42-0601	36, 52	2
42-0701	60, 76, 86, 96	4
406-0200	24, 37, 44	3
408-0100	7, 13, 33	3
408-0200	42, 59	2
408-0302	76	1
408-0701	17	1
4009-0100	6, 17, 24, 32	4
4009-0201	44, 47	2
4035-0100	9, 17	2
4035-0200	23, 35, 40, 50, 62	5
4035-0300	68	1
4056-0201	45	1
4056-0202	1	1
4084-0100	3, 18, 29, 37	4
4112-0400	3, 12, 26	3
4178-0100	6	1
	Total	50

SUMARY OF TEST RESULT

ROUTE - CONTROL SECTION	KM. No.	MATERIAL CESCRIPTION	PLASTICITY		GRADATION, % FINED					CLASSIFICATION		COMPACTION AASHTO T-99		SOAKED CBR %	
			LL	PI	3/8 in.	No. 4	No. 10	No. 40	No. 200	USCS	AASHTO	MAX.rd t/cu.m	OMC %	100% COMP.	95% COMP.
4+4000, RD - 4	32	Reddish Yellow, Silty Sand	26.40	5.25	72.54	53.24	38.81	32.02	23.83	SC - SM	A-1-b (0)	2.043	10.50	11.70	6.40
		Trace Clay													
RD - 4	39	Light red (Reddish - Yellow),	39.50	14.34	100	93.12	89.00	87.76	84.58	CL	A-6 (1)	1.612	22.50	4.50	2.30
		Silty Clay													
RD - 4	43	Reddish Yellow, Silty Clay	44.10	22.15	100	89.56	85.89	84.80	81.52	CL	A-7-6 (6)	1.599	22.50	2.60	1.60
RD - 4	54	Reddish Yellow, Clayey Sand	35.75	13.40	81.24	68.65	55.16	50.12	41.20	SC	A-6 (2)	1.756	17.10	4.70	3.70
RD - 4	61	Light Yellowish Brown Silty Sand	22.50	6.52	86.10	79.46	62.13	44.07	30.74	SC - SM	A-2-4 (0)	2.142	8.70	22.35	18.40
		Trace Clay													
4+4100, RD - 4	13	Reddish Yellow Silty Sand Trace	21.00	6.48	100	95.48	88.62	66.07	34.18	SC - SM	A-2-4 (0)	1.968	11.00	7.10	5.00
		Clay.													
RD - 4	22	Very Pale Brown, Silty Sand	- N	P -	100	99.79	99.46	73.26	26.15	SM	A-2-4 (0)	1.870	9.60	18.40	11.20
4+4200, RD - 4	13	Reddish Brown Silty Sand	21.80	5.78	91.24	73.72	56.23	43.30	28.79	SC - SM	A-2-4 (0)	1.944	12.80	7.00	4.35
42+0400, RD - 42	11	Dark Greyish Brown Silt	51.00	16.70	100	100	99.90	98.86	96.42	OH - MH	A-7-5 (14)	1.488	29.20	2.55	2.00
		Trace Organic													
R - 42	16	Ligh Yellowish Brown Silty Sand	- N	P -	100	99.88	99.74	98.67	9.22	SW - SM	A-3 (0)	1.635	15.50	17.90	11.20
42-0601, R - 42	36	Very Pale Yellow Silty Sand,	29.75	8.75	96.46	92.10	75.36	39.31	23.47	SC - SM	A-2-4 (0)	1.927	11.00	23.40	16.00
		Trace Clay													
R - 42	52	Reddish Yellow Clayey Sand	34.35	20.58	81.82	74.54	68.07	59.43	47.21	SC	A-6 (4)	1.829	12.60	16.50	11.40
42-0701, R - 42	60	Yellow Silt Trace Organic	60.50	26.43	100	99.55	99.03	99.34	97.50	OH - MH	A-7-5 (19)	1.467	25.20	3.15	2.25
R - 42	76	Light Brownish Grey, Silty Clay	34.90	14.64	100	99.68	97.23	75.98	53.70	CL	A-6 (6)	1.723	15.90	10.30	6.50
R - 42	86	Greyish Brown, Silty Sand	28.85	7.12	98.42	95.24	90.15	75.14	42.48	SC - SM	A-4 (2)	1.827	13.40	6.75	3.10
		Trace Clay													
R - 24	96	Very Pale Brown silty, Sand	32.75	7.38	84.80	72.45	58.19	36.34	20.18	SC - SM	A-2-4 (0)	1.887	11.00	13.90	8.00
		Trace Clay													

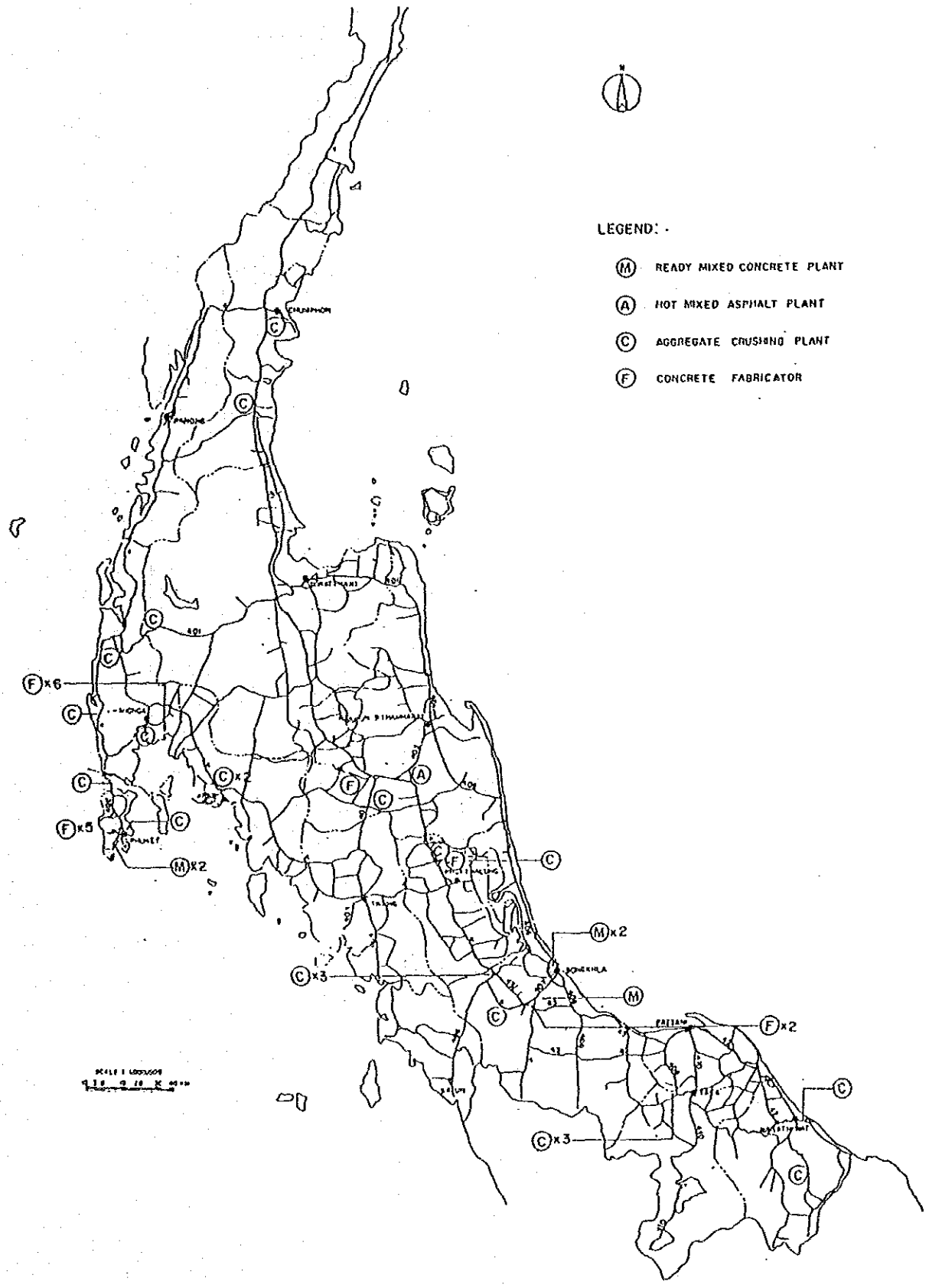
SUMARY OF TEST RESULT

ROUTE - CONTROL SECTION	KM. No.	MATERIAL CESCRIPTION	PLASTICITY		GRADATION, % FINED					CLASSIFICATION		COMPACTION AASHTO T-99		SOAKED CBR %	
			LL	PI	3/8 in.	No. 4	No. 10	No. 40	No. 200	USCS	AASHTO	MAX.rd t/cu.m	OMC %	100% COMP.	95% COMP.
406-0200, ED - 406	24	Very Pale Brown Silty Sand	31.00	7.57	98.40	87.80	84.31	79.48	47.63	SC - SM	A-4 (3)	1.755	14.60	5.40	2.80
		Trace Clay													
ED - 406	37	Light Reddish Brown Clayey Sand	29.15	9.00	85.10	78.38	62.58	39.56	28.75	SC	A-2-4 (0)	1.940	13.50	7.00	2.35
ED - 406	44	Reddish Yellow Clayey Sand	37.35	12.59	80.25	62.97	45.45	34.46	28.51	SC	A-2-6 (0)	1.965	14.90	7.90	2.70
408-0100, ED - 408	7	Reddish Yellow Silty Sand	19.20	-	99.50	85.78	74.38	36.77	16.29	SM	A-1-b (0)	2.067	9.50	11.30	7.30
ED - 408	13	Greyish Brown, Silty Sand	- N P	-	100	98.91	98.31	48.86	4.78	SW - SP	A-1-b (0)	1.804	9.40	16.90	10.55
ED - 408	33	Reddish Brown Silty Sand	- N P	-	100	94.72	89.53	72.42	16.65	SM	A-2-4 (0)	1.863	12.90	11.30	6.60
408-0200, ED - 408	42	Light Greyish Brown Silt	49.60	21.08	100	99.31	98.94	98.44	98.01	OL - ML	A-7-5 (14)	1.542	19.00	3.03	2.44
		Trace Organic													
ED - 408	59	Light Yellowish Brown Silty Sand	- N P	-	100	99.06	97.94	88.68	46.95	SW - SM	A-4 (2)	1.884	10.70	13.60	7.70
408-0302, ED - 408	76	Light Brownish Grey, Silt	42.40	15.27	100	99.91	99.30	97.37	92.80	OL - ML	A-7-6 (12)	1.549	21.80	3.20	2.10
		Trace Organic													
408-0701, ED - 408	17	Reddish Brown Clayey Sand	30.15	10.93	100	89.77	58.29	29.97	19.71	SC	A-2-4 (0)	2.005	9.00	11.20	8.00
4009-100, ED - 4009	6	Reddish Brown Silty Sand	18.90	0.30	92.42	71.62	49.50	39.69	22.49	SM	A-1-b (0)	2.220	6.40	15.50	8.80
ED - 4009	17	Reddish Yellow Silty Sand	22.90	5.46	87.10	57.23	39.94	32.00	20.51	SC - SM	A-1-b (0)	2.221	9.10	16.20	6.40
		Trace Clay													
ED - 4009	24	Light Red Silty Sand Trace Clay	17.00	4.76	88.55	63.28	40.37	29.89	17.44	SC - SM	A-1-b (0)	2.247	6.80	30.40	14.10
ED - 4009	32	Reddish Brown Silty Sand	18.15	3.82	91.10	86.31	70.34	51.36	37.33	SM	A-4 (1)	2.023	9.50	9.30	5.80
4009-0201, ED - 4009	44	Reddish Yellow Silty Sand	18.65	1.18	95.78	82.64	63.27	28.38	15.25	SM	A-1-b (0)	2.136	7.40	22.60	14.60
ED - 4009	47	Reddish Grey Silty Sand	20.75	4.52	99.71	89.16	74.77	49.46	31.26	SM	A-2-4 (0)	2.174	8.10	20.30	9.50
4035-0100, ED - 4035	9	Reddish Yellow Silty Sand	15.00	2.94	100	91.04	85.49	73.91	43.00	SM	A-4 (2)	2.051	10.20	10.00	5.30
ED - 4035	17	Reddish Yellow Silty Sand	31.50	8.79	82.24	63.11	45.92	38.63	32.99	SC - SM	A-2-4 (0)	1.971	10.70	18.60	10.90
		Trace Clay													
4035-0200, ED - 4035	23	Reddish Yellow Silty Sand	22.10	5.00	89.10	72.24	55.58	42.95	32.00	SC - SM	A-2-4 (0)	1.947	9.80	13.60	8.60
		Trace Clay													

SUMARY OF TEST RESULT

ROUTE - CONTROL SECTION	KM. No.	MATERIAL CESCRIPTION	PLASTICITY		GRADATION, % FINED					CLASSIFICATION		COMPACTION AASHTO T-99		SOAKED CBR %	
			LL	PI	3/8 in.	No. 4	No. 10	No. 40	No. 200	USCS	AASHTO	MAX.rd t/cu.m	OMC %	100% COMP.	95% COMP.
RD - 4035	35	Light Reddish Brown Clayed Sand	31.30	11.43	82.54	65.02	54.60	47.83	43.26	SC	A-6 (2)	1.950	9.40	17.40	11.00
RD - 4035	40	Reddish Yellow Clayey Sand	27.75	9.91	78.10	53.95	41.32	23.45	17.63	SC	A-2-4 (0)	1.901	10.60	21.70	12.00
RD - 4035	50	Light Reddish Brown Silty Sand	23.35	7.30	80.20	66.88	51.33	42.50	32.24	SC - SM	A-2-4 (0)	2.077	9.40	10.30	5.50
		Trace Clay													
R - 4035	62	Light Red Silty Sand Trace Clay	21.90	6.64	78.10	62.90	52.47	48.68	29.94	SC - SM	A-2-4 (0)	2.100	8.70	12.75	6.70
4035-0300, RD - 4035	63	Light Reddish Brown Clayey Sand	34.10	14.69	79.22	65.99	47.37	43.01	33.33	SC	A-2-6 (1)	2.056	11.10	10.70	5.65
4056-0201, R - 4056	45	Reddish Yellow Silty Sand	- N P -		87.66	77.77	72.00	49.19	25.59	SM	A-2-4 (0)	1.932	12.10	13.90	9.50
4056-0202, R - 4056	1	Reddish Yellow Clayey Sand	31.35	11.05	100	86.16	55.51	32.10	23.34	SC	A-2-6 (0)	1.958	9.50	8.50	5.20
4084-0100, R - 4084	3	Very Pale Brown Clayey Sand	37.50	13.33	100	98.98	82.06	42.24	25.76	SC	A-2-6 (0)	1.913	11.40	9.70	6.90
R - 4084	16	Light Grey Silty Sand	- N P -		99.61	99.53	99.27	55.06	4.66	SW - SP	A-3 (0)	1.659	11.10	5.30	5.20
R - 4084	29	Greyish Brown Silty Sand	- N P -		100	100	59.82	49.71	10.56	SM - SW	A-1-b (0)	1.800	12.00	22.50	13.50
R - 4084	37	Brownish Yellow Clayey Sand	28.75	11.01	99.71	98.08	94.25	72.20	40.73	SC	A-6 (1)	1.787	15.20	4.00	2.70
4112-0200, R - 4112	3	Red Silty Sand	17.35	0.93	100	90.89	82.43	54.94	25.53	SM	A-2-4 (0)	2.052	10.20	11.30	6.90
R - 4112	12	Light Red Silty Sand Trace Clay	27.20	4.79	92.10	79.96	70.01	61.61	49.97	SC - SM	A-4 (3)	1.930	14.70	7.10	3.40
4112-0100, RD - 4112	26	Light Red Silty Sand	18.35	3.59	85.42	60.35	48.33	40.14	30.97	SM	A-2-4 (0)	2.002	9.30	13.00	7.30
4178-0100, RD - 4178	6	Light Reddish Brown Silty Sand	- N P -		86.10	74.36	60.40	39.00	17.64	SM	A-1-b (0)	2.145	8.70	10.00	4.20

A.2.5.5　資材供給施設の位置図



A.2.5.5 Location Map of Material Supply Facilities

付録:
第 3 章

A.3.4.1 ゾーン・コード表

Zone No.	RDSR Code	LTD Code (Toll Hwy. Study)	Zone Name
1	0201	8001	Chumphon
2	0202	8005, 8008	Tha Sae
3	0203	8006, 8007	Sawi
4	0204	8002, 8003, 8004	Lang Suan
5	1001	8101, 8102	Ranong
6	1002	8103, 8104	Kra Buri
7	1401	8201	Surat Thani
8	1402	8214	Phun Phin
9	1403	8208	Khian Sa
10	1404	8202, 8203	Ban Na San
11	1405	8213	Phrasaeng
12	1406	8218	Chai Buri
13	1407	8204, 8212	Phanom
14	1408	8209	Khiri Ratthananikh
15	1409	8205, 8215, 8216	Chaiya
16	1410	8207	Kanchanadit
17	1411	8206	Don Sak
18	1412	8217	Wiang Sa
19	1413	8210, 8211	Ko Samui
20	0701	8301, 8308	Phangnga
21	0702	8304	Khura Buri
22	0703	8305, 8303	Takua Pa
23	0704	8306, 8307	Takua Thung
24	1101	8601	Phuket
25	1102	8602	Kathu
26	1103	8603	Thalang
27	0101	8501, 8302	Krabi
28	0102	8502, 8506	Ao Luk
29	0103	8503	Khao Phanom
30	0104	8504, 8505, 8507	Khlong Thom
31	0401	8401, 8402, 8408	Nakhon Si Thammara
32	0402	8404, 8410, 8415, 8416	Chawang
33	0403	8412, 8413	Tha Sala
34	0404	8407	Khanom
35	0405	8405, 8406, 8409	Chian Yai
36	0406	8403, 8411	Cha-Uad
37	0407	8414, 8417	Thung Song
38	0301	9101	Trang
39	0302	9103	Kantang
40	0303	9105, 9107	Wang Wiset
41	0304	9102	Huai Yot
42	0305	9104, 9106	Palian
43	0601	9001	Phatthalung
44	0602	9005, 9007	Khuan Khanun
45	0603	9002, 9003, 9004	Khao Chaison
46	0604	9006, 9008, 9009	Pa Bon
47	1201	9201, 9214	Songkhla
48	1202	9205, 9209, 9211, 9215	Ranot
49	1203	9206, 9213	Rattaphum
50	1204	9203, 9212	Hat Yai
51	1205	9208	Sadao
52	1206	9202, 9204	Chana
53	1207	9207, 9210	Thepa
54	1301	9301, 9303	Satun
55	1302	9305, 9306	Langu
56	1303	9302, 9304	Khuan Ka Long

Zone No.	RDSR Code	LTD Code (Toll Hwy. Study)	Zone Name
57	0801	9401	Pattani
58	0802	9406,9407,9408,9410,9411	Yaring
59	0803	9403, 9409	Yarang
60	0804	9402, 9404, 9405	Khok Pho
61	0901	9501, 9505	Yala
62	0902	9506	Yaha
63	0903	9502, 9503, 9504	Betong
64	0501	9601	Narathiwat
65	0502	9606, 9607, 9608	Sungai Kolok
66	0503	9603, 9605, 9612	Rangae
67	0504	9602, 9604, 9611	Raso
68	0505	9609, 9610	Waeng
69	1500	70, 71, 73, 75, 76, 77	Western Region
70	1600	1, 16, 17, 18, 72, 74	BMR
71	1700	10-15	Central Region
72	1800	20-26, 9903	Eastern Region
73	1900	30-36, 40-49, 9902	Northeastern Regio
74	2000	50-57, 60-68, 9901	Northern Region
75	2100	9904	Malaysia