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KINGDOM OF THAILAND  
MINISTRY OF COMMUNICATIONS  
DEPARTMENT OF HIGHWAYS

FEASIBILITY STUDY  
FOR

**PHETCHABUN - CHAI BADAN HIGHWAY PROJECT**

**FINAL REPORT**

March 1979

**VOLUME 2 APPENDIXES AND DRAWINGS**

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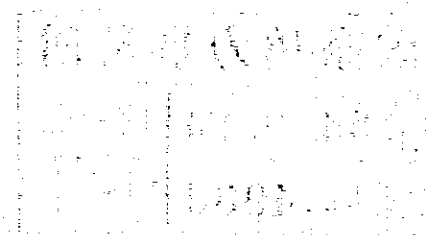
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# PHETCHABUN - CHAI BADAN HIGHWAY PROJECT FINAL REPORT

## VOLUME 2 APPENDICES AND DRAWINGS

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**PART I**  
**APPENDICES**

PREFACE

The Appendixes presented herein give technical details and supporting data as the supplemental information on the subjects discussed in Volume I : Text of this Final Report of Feasibility Study for Phetchabun - Chai Badan Highway Project. Their cross relations to the Chapters of Volume 1 are as follows:

Volume 1 Chapter	Volume 2 Appendix
3 THE STUDY AREA	1 LAND CAPABILITY AND LAND USE
	2 PRESENT CONDITIONS OF AGRICULTURE IN STUDY AREA
5 PROSPECTS OF AGRICULTURAL DEVELOPMENT	3 FUTURE PRODUCTION COSTS AND FARM INCOMES
6 TRAFFIC	4 BASIC DATA FOR TRAFFIC STUDY
7 PRELIMINARY ENGINEERING	5 ROAD INVENTORY
	6 CONSTRUCTION QUANTITIES BY LINK
10 ENGINEERING	7 SOIL AND MATERIAL INVESTIGATION
	8 HYDROLOGICAL STUDY

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Appendix 1

**LAND CAPABILITY AND LAND USE**

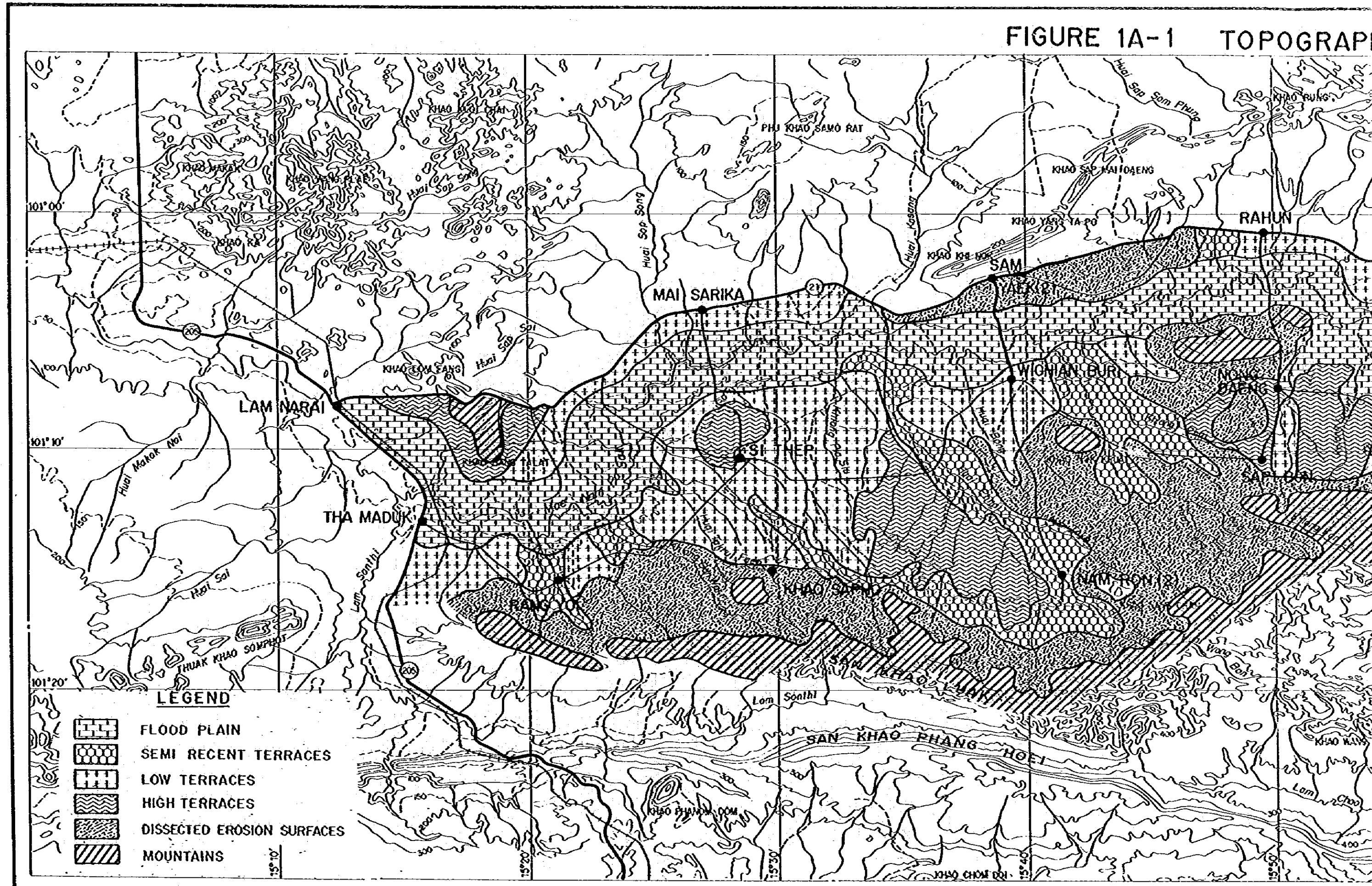
TABLE 1A-1

Table 1A-1 CHARACTERISTICS OF SOILS IN THE PROJECT AREA

<u>NAME OF SOIL</u>	<u>COVERING AREA</u>	<u>KIND</u>	<u>COLOR</u>	<u>PERMEABILITY</u>	<u>CHEMICAL CHARACTERISTICS</u>	<u>SUITABLE CROPS</u>
Hydromorphic Alluvial Soil	flood plains along the Pasak River and its tributaries with thick deposit	fine clay	brown and mottled	low	medium acid - neutral	paddy, maize
Low Humic Grey Soil	central and southern part of the Project Area	sandy and clayey loam	dark grey, greyish brown	moderate	medium acid - neutral	paddy, maize
Hydromorphic non Calcic Soil	recent low terrace in the northern part of the Project Area	loam - clay	dark brown, greyish brown	low - moderate	medium acid - neutral	paddy
Grumusol Soil	semi-recent terraces in the central part of the Project Area	silty clay - clay	dark and mottled	low	medium acid - moderately alkaline	paddy
Non Calcic Brown Soil	alluvial derived from semi recent alluvium	fine silt	brown	moderate	medium acid - neutral	maize
Reddish-Brown Lateritic Soil	high terraces or dissected erosion surfaces on the mountain side	loam - clayey loam	reddish-brown, yellowish red	moderate	acid	maize
Red Yellow Podzolic Soil	high terrace or dissected erosion surfaces in the northern and southern parts of the Project Area	loamy sand - loam	red, yellow	moderate - high	medium - strong acid	unsuitable
Brown Forest Soil	the dissected erosion surfaces in the Project Area	fine silty clay - clayey loam	brown	low - moderate	acid - neutral	maize



FIGURE 1A-1 TOPOGRAPHY







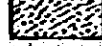

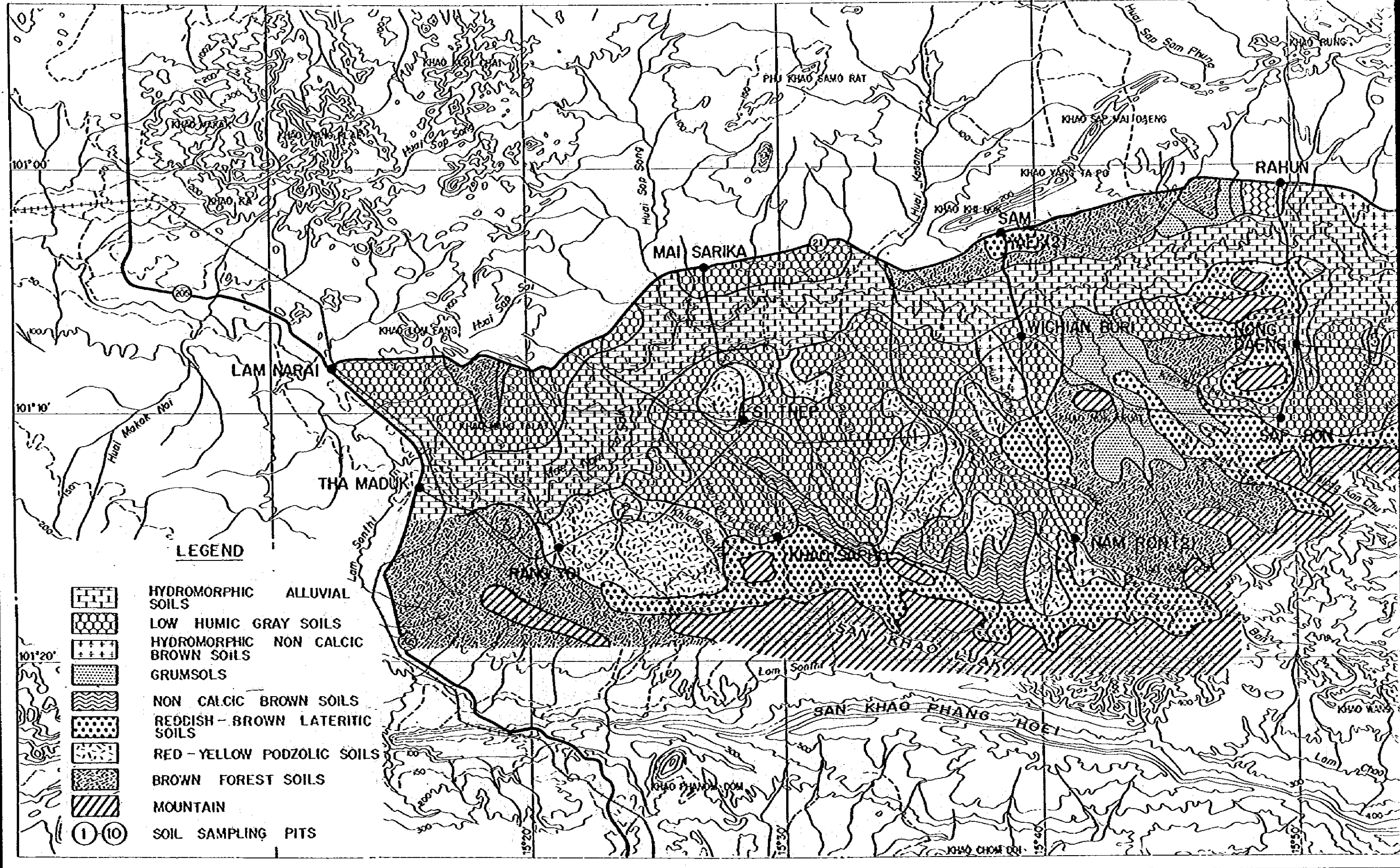
- LEGEND**
-  FLOOD PLAIN
  -  SEMI RECENT TERRACES
  -  LOW TERRACES
  -  HIGH TERRACES
  -  DISSECTED EROSION SURFACES
  -  MOUNTAINS




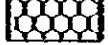
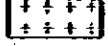



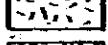
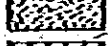






FIGURE 1A-2 SOIL MAP



LEGEND

-  HYDROMORPHIC ALLUVIAL SOILS
-  LOW HUMIC GRAY SOILS
-  HYDROMORPHIC NON CALCIC BROWN SOILS
-  GRUMSOLS
-  NON CALCIC BROWN SOILS
-  REDDISH-BROWN LATERITIC SOILS
-  RED-YELLOW PODZOLIC SOILS
-  BROWN FOREST SOILS
-  MOUNTAIN
-  SOIL SAMPLING PITS

# A-2 SOIL MAP

SOIL MAP

FIGURE 1A-2

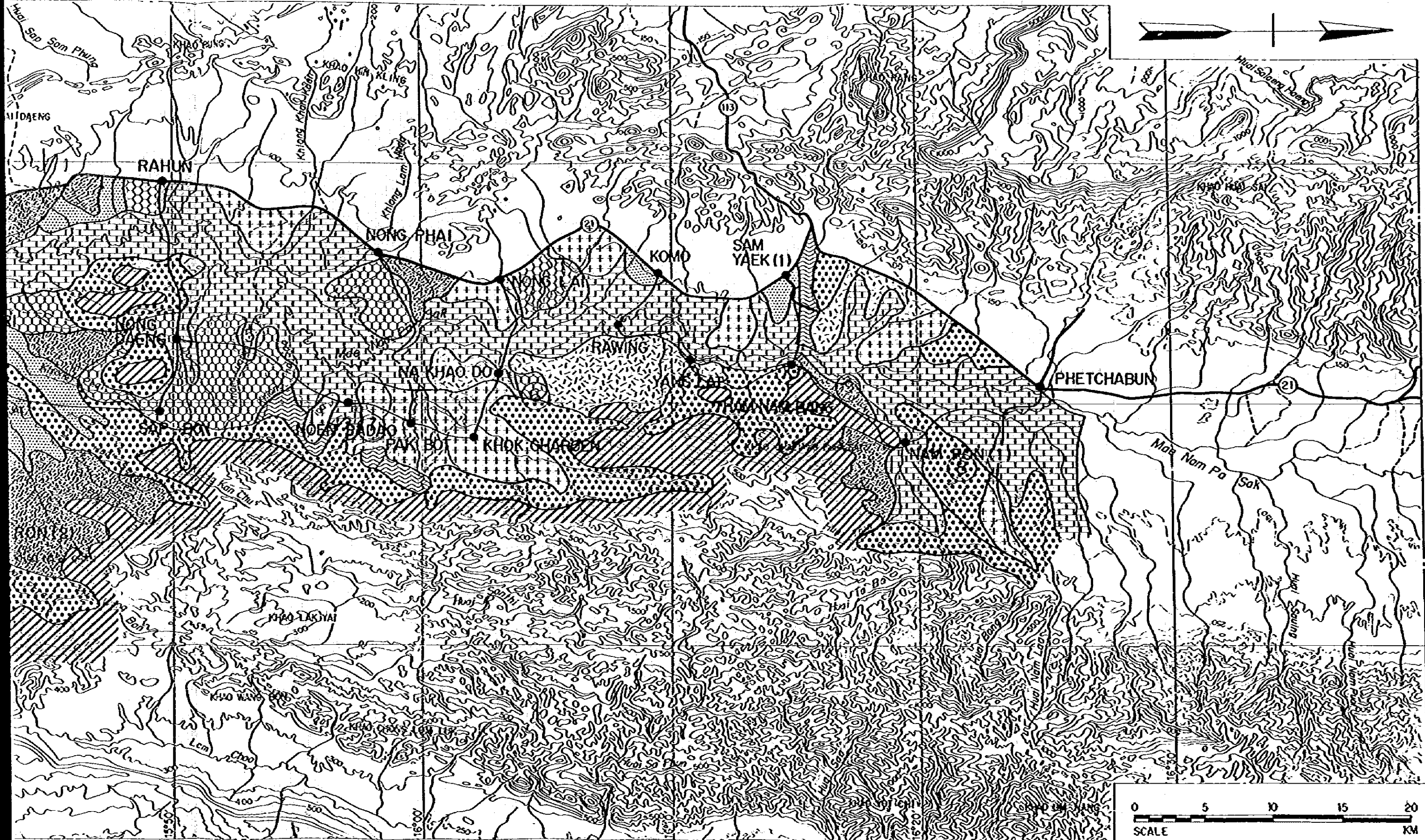
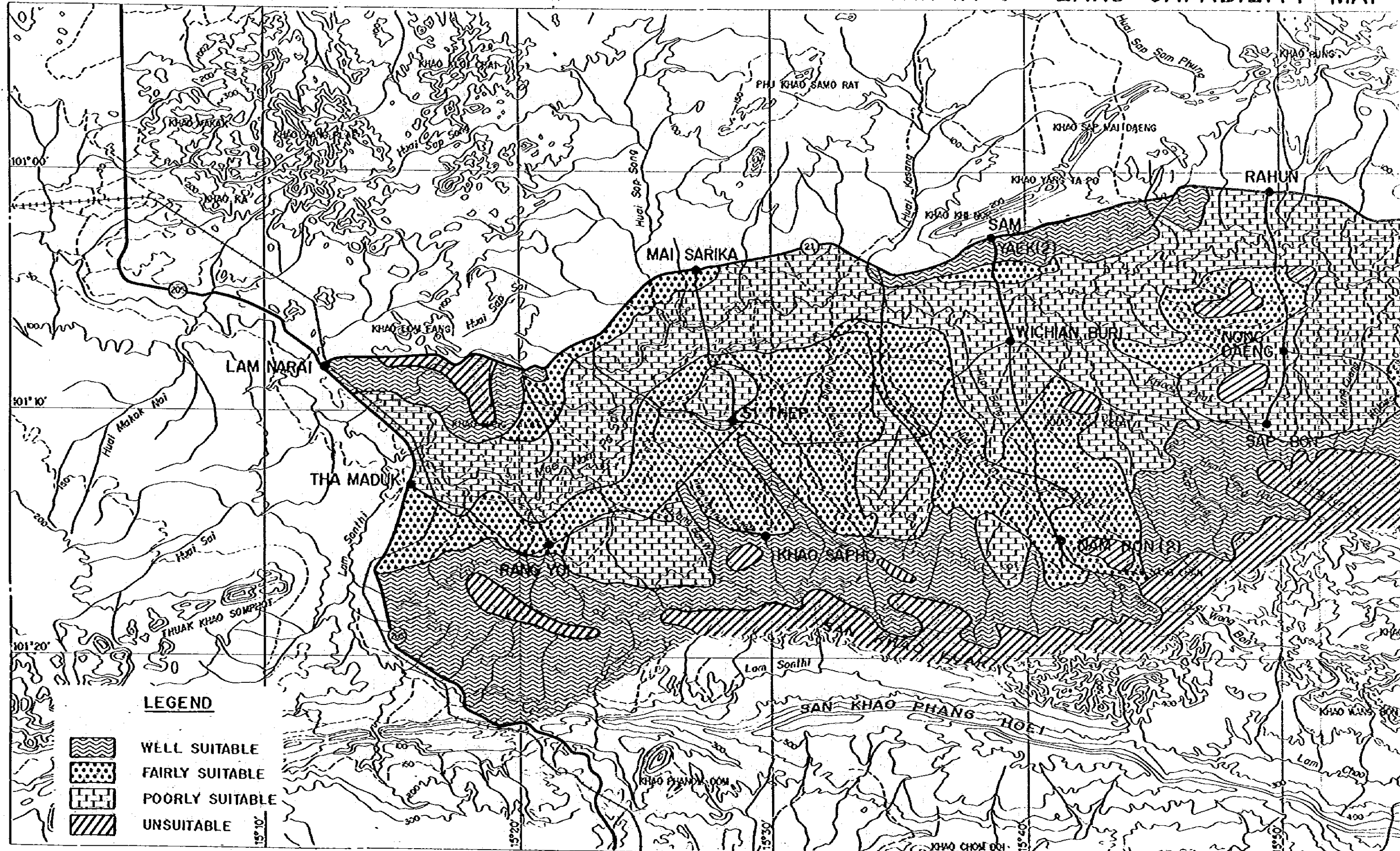


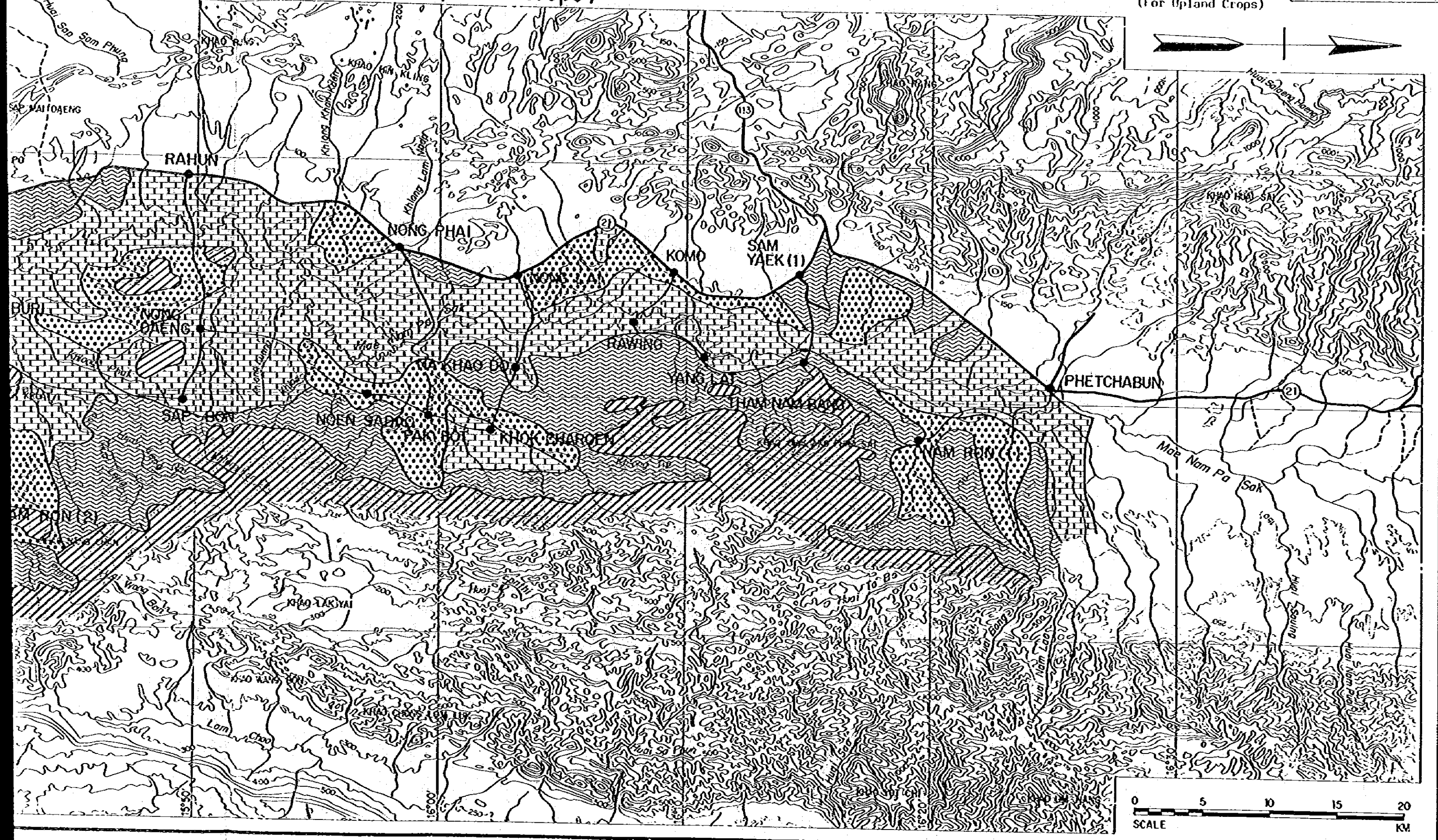


FIGURE 1A-3 LAND CAPABILITY MAP



# LAND CAPABILITY MAP (For Upland Crops)

LAND CAPABILITY MAP (For Upland Crops) **FIGURE 1A - 3**









# 4 LAND CAPABILITY MAP (For Paddy)

LAND CAPABILITY MAP  
(For Paddy)

FIGURE 1A-4

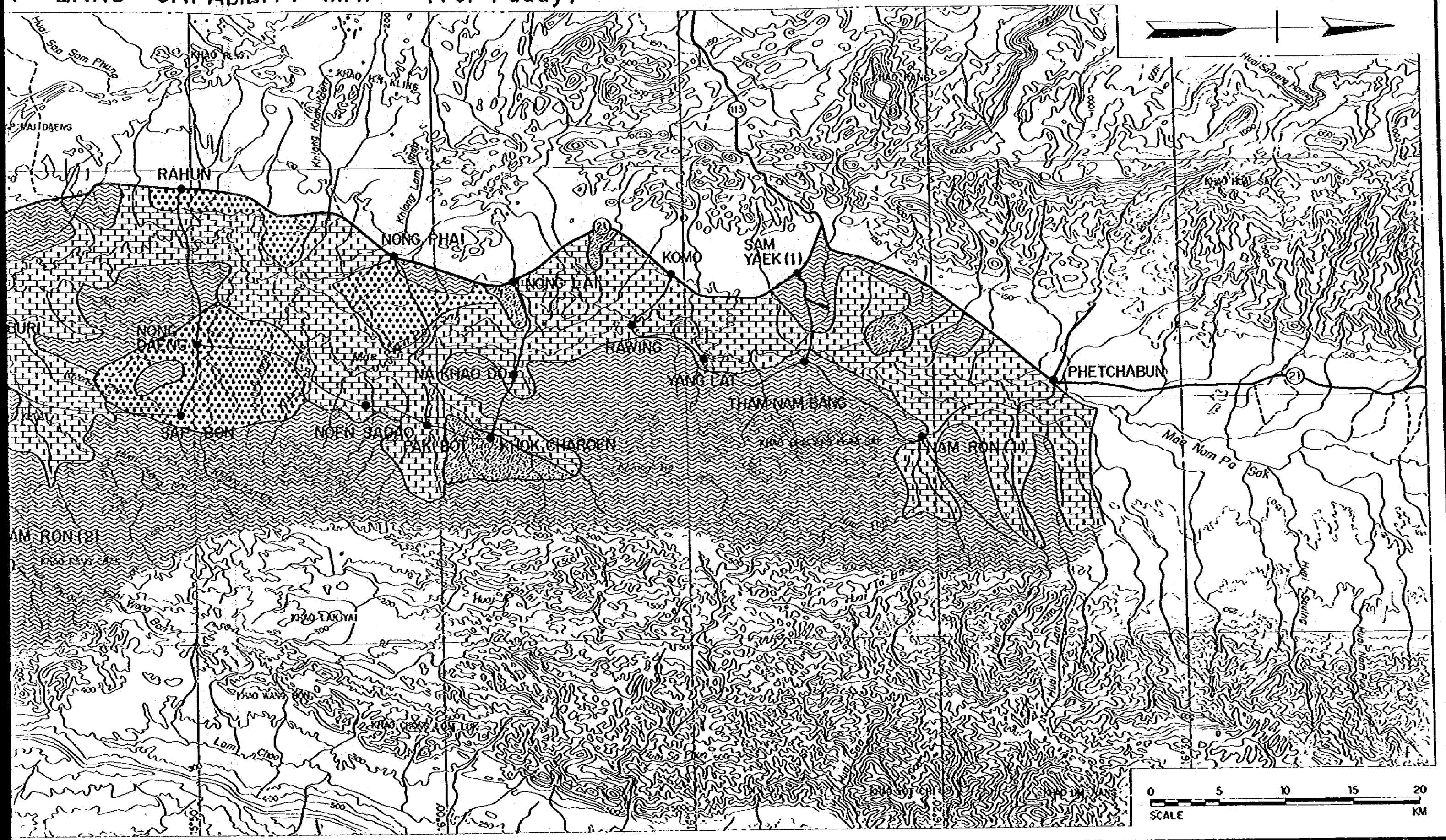
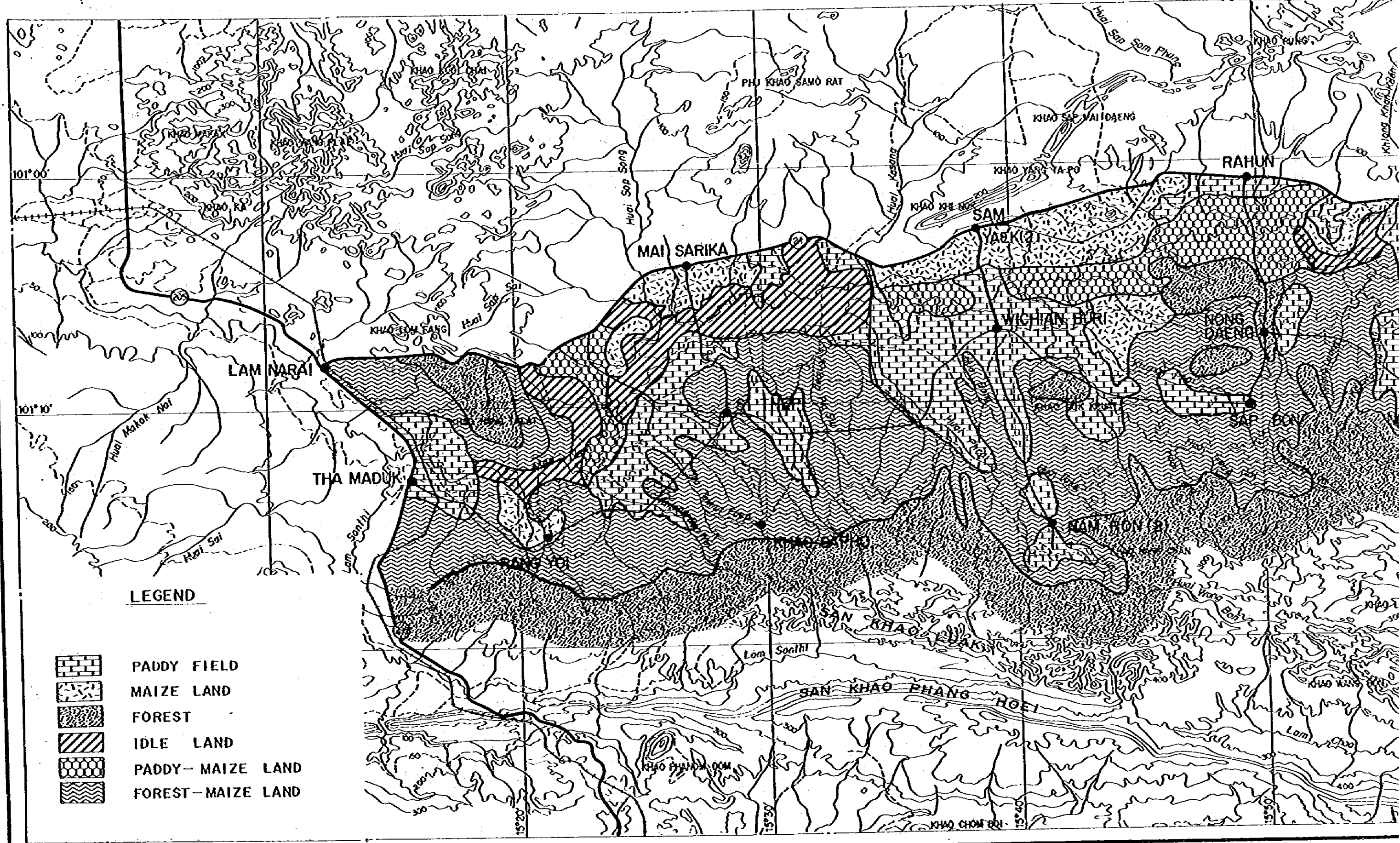


FIGURE IA-5 LAND USE M





# IA-5 LAND USE MAP

