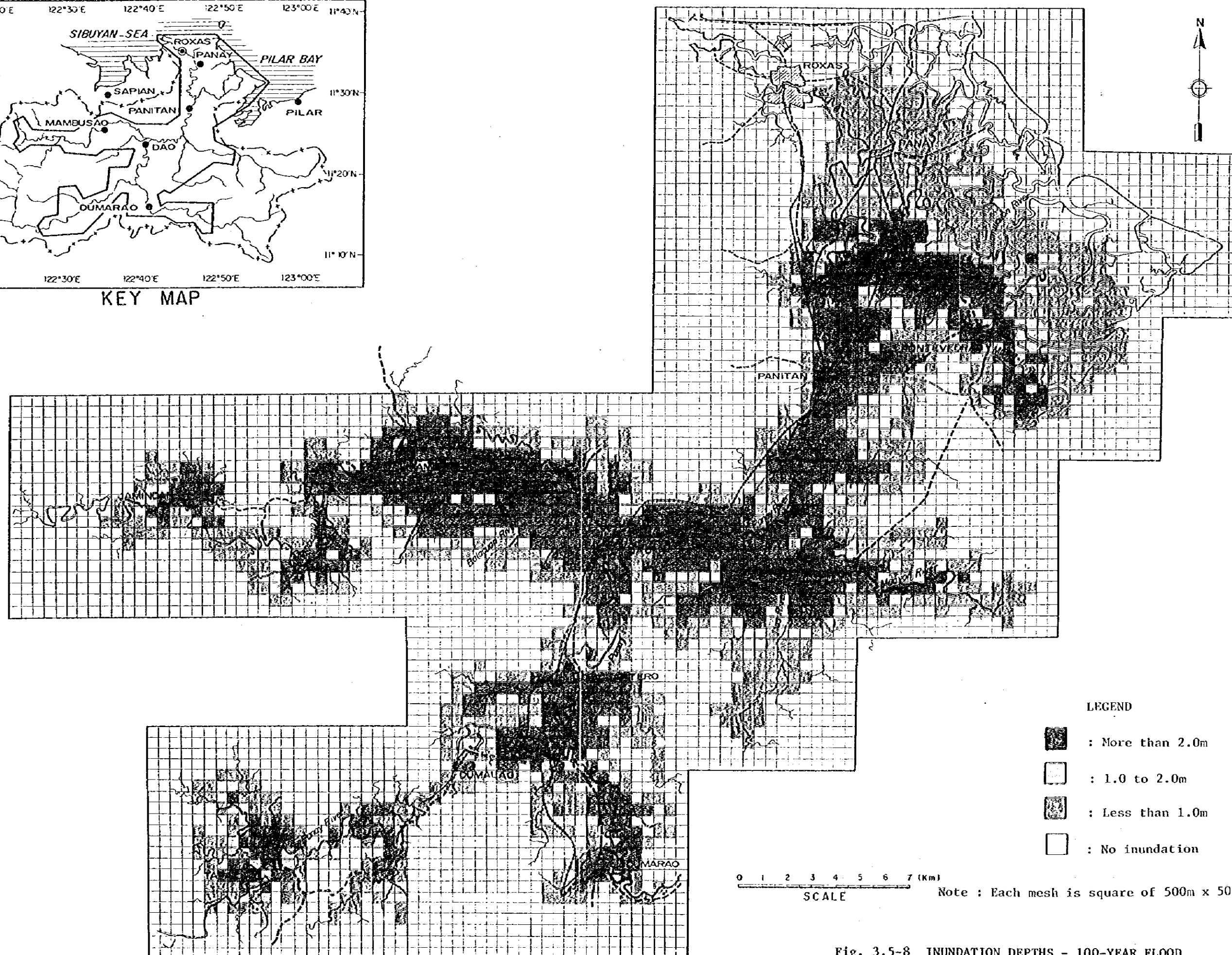






KEY MAP



LEGEND

-  : More than 2.0m
-  : 1.0 to 2.0m
-  : Less than 1.0m
-  : No inundation

0 1 2 3 4 5 6 7 (Km)
SCALE

Note : Each mesh is square of 500m x 500m.

Fig. 3.5-8 INUNDATION DEPTHS - 100-YEAR FLOOD

1

2

3

4

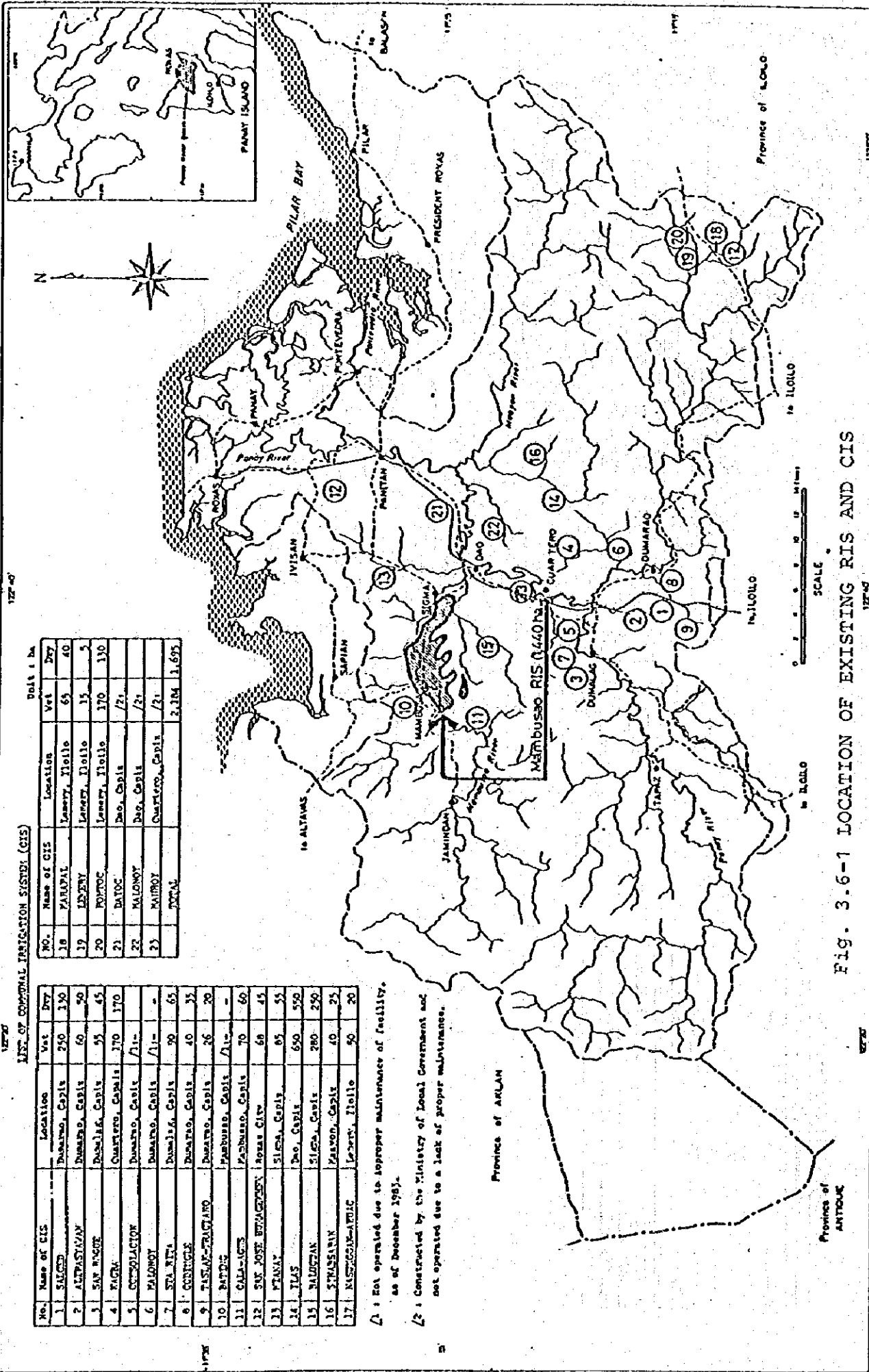


Fig. 3.6-1 LOCATION OF EXISTING RIS AND CIS

127-40

127-40

127-40

127-40

LIST OF CENTRAL IRRIGATION SYSTEMS (CIS)

NO.	Name of CIS	Location	Area (ha)	Year
18	PARAPAL	Sanary, Iloilo	65	40
19	PARAPAL	Sanary, Iloilo	15	5
20	PORTOC	Sanary, Iloilo	170	110
21	DATOC	Dao, Capis	71	
22	MALONOT	Dao, Capis	71	
23	MALONOT	Quarterm, Capis	71	
	TOTAL		2,184	1,695

No.	Name of CIS	Location	Area (ha)	Year
1	SILIG	Dumarao, Capis	250	130
2	ALPASTALAN	Dumarao, Capis	60	90
3	SAN MIGUEL	Dumarao, Capis	55	45
4	PALMA	Quarterm, Capis	170	170
5	COLOLACION	Dumarao, Capis	71	
6	MALONOT	Dumarao, Capis	71	
7	STA. RITA	Dumarao, Capis	90	65
8	CONCEPCION	Dumarao, Capis	40	35
9	TASAL-TRACIANO	Dumarao, Capis	26	20
10	BATIS	Pamburo, Capis	71	
11	CALLA-LIGS	Pamburo, Capis	70	60
12	SAN JOSE BENTACON	Laosao City	68	45
13	PTANAY	SIGMA, Capis	85	55
14	ILAS	Dao, Capis	650	550
15	BALESTAN	SIGMA, Capis	280	250
16	SINAGANIN	Laosao, Capis	40	35
17	MESQUITA-MATRIC	Sanary, Iloilo	90	20

1 : Not operated due to improper maintenance of facilities.
as of December 1981.

2 : Constructed by the Ministry of Local Government and
not operated due to a lack of proper maintenance.

PUMP IRRIGATION SYSTEMS (FSDC)

Name of Reach	Irrigated Area (ha)	Water Rights (1/s)
1. PANGAT - I	316	326
2. PANGAT - II	205	205
3. PANGAT - III	324	324
4. PANGAT - IV	156	156
5. PANGAT - V	1,360	1,360
Sub-total	2,461	2,461
6. BACHARAY	0	0
7. LANTOSAO	728	728
8. PANGAT	201	201
9. PONTEDERA	0	0
Total	3,460	3,460

Note: 10 PIS operated under FSDC

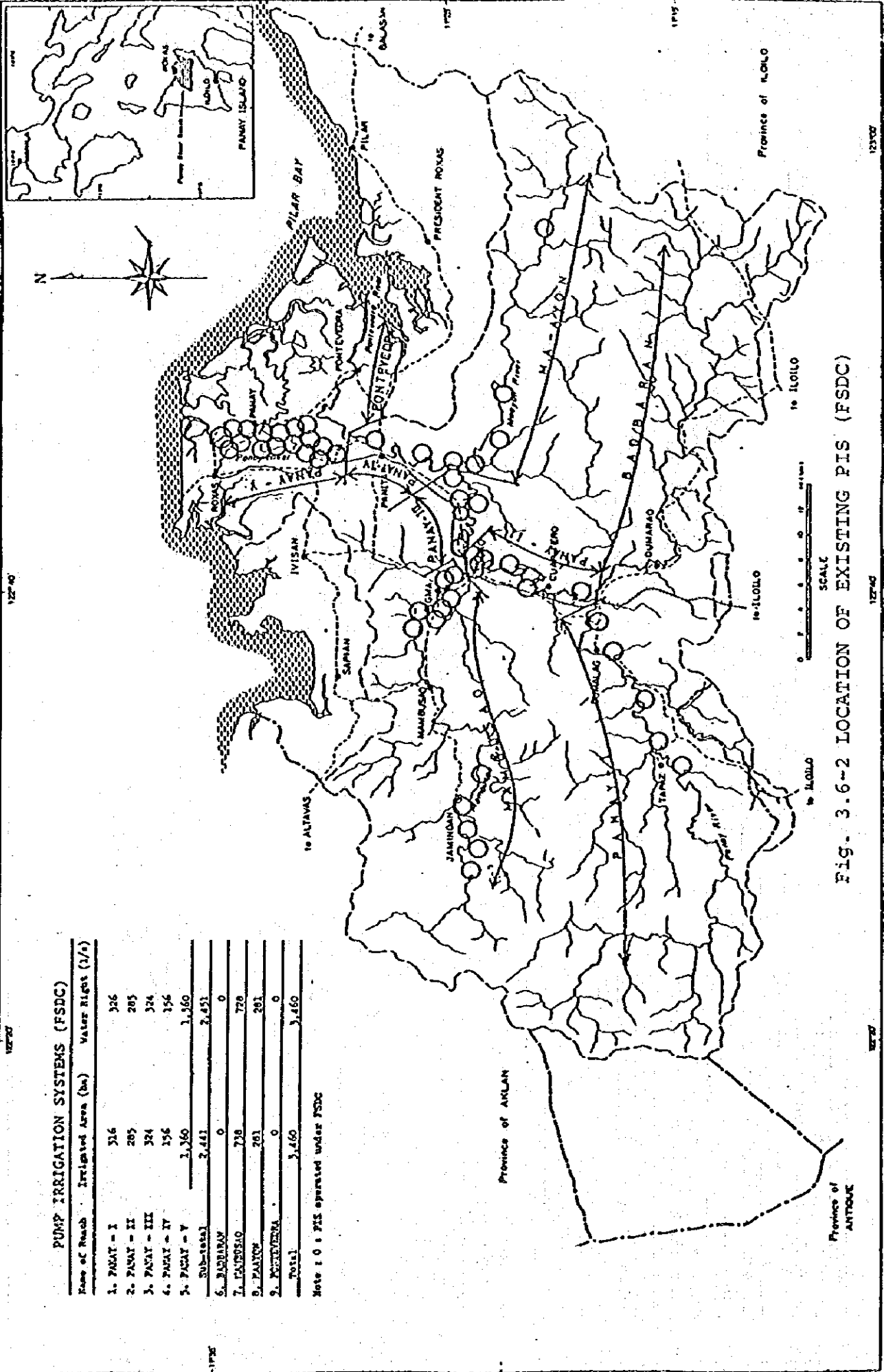


Fig. 3.6-2 LOCATION OF EXISTING PIS (FSDC)

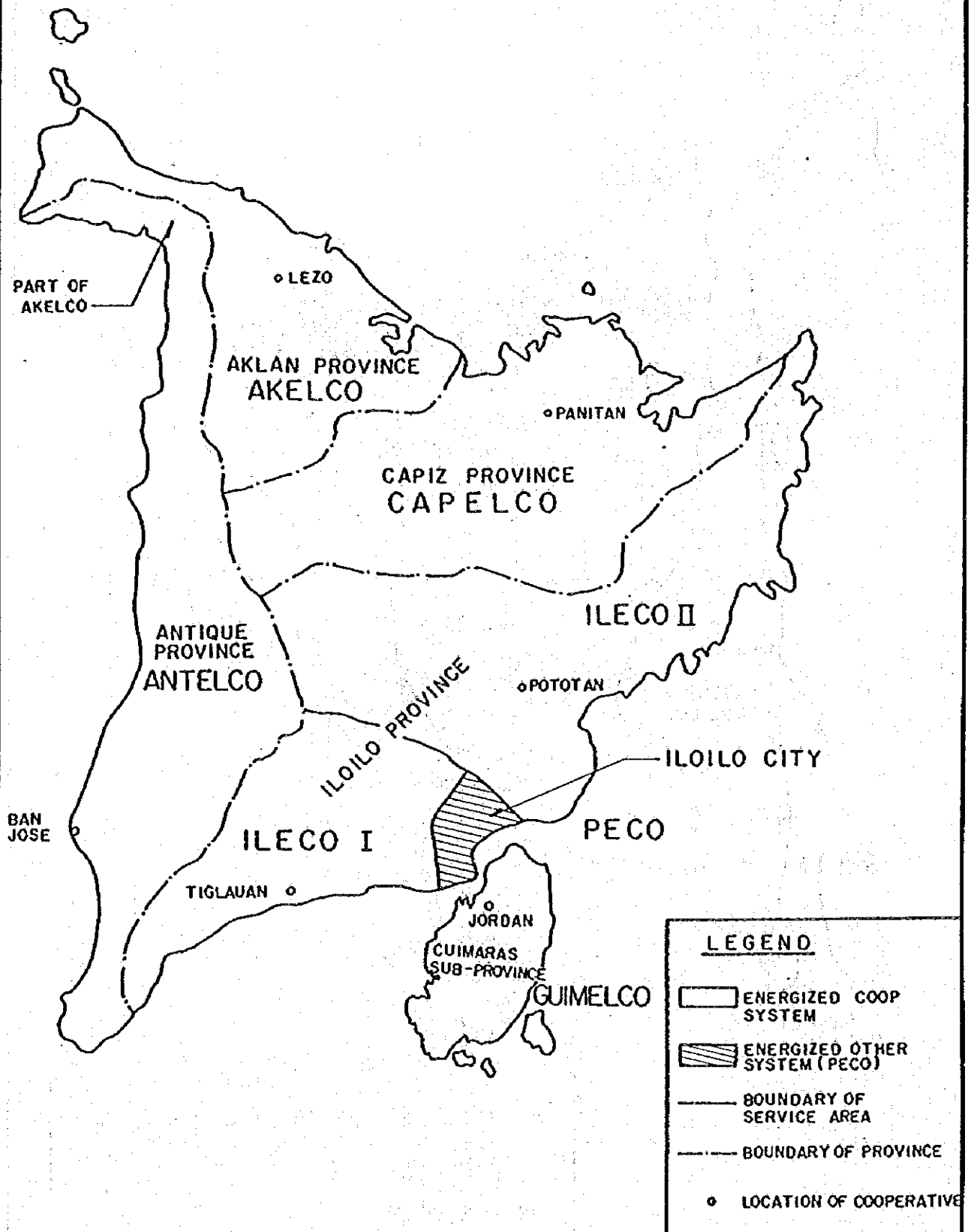
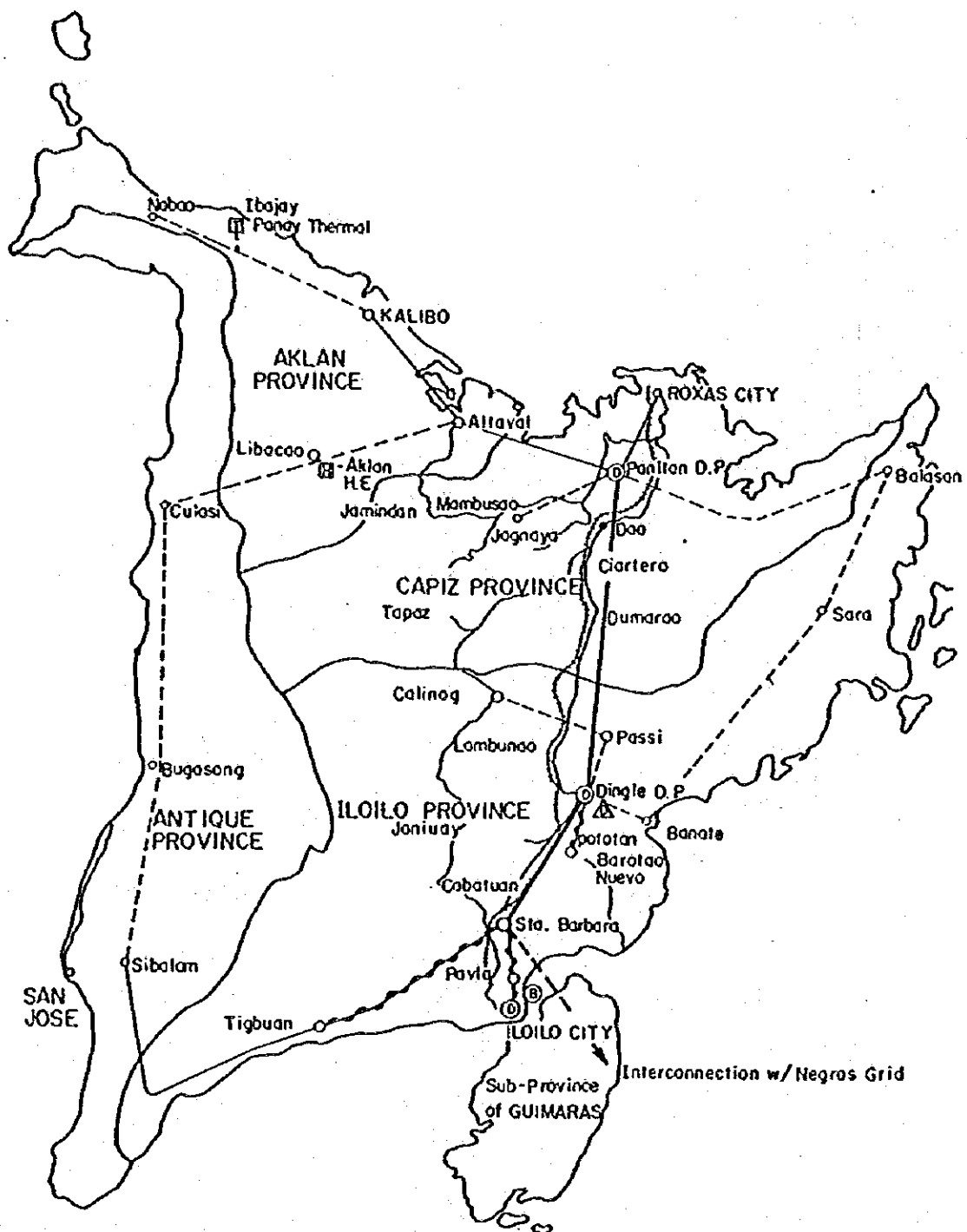


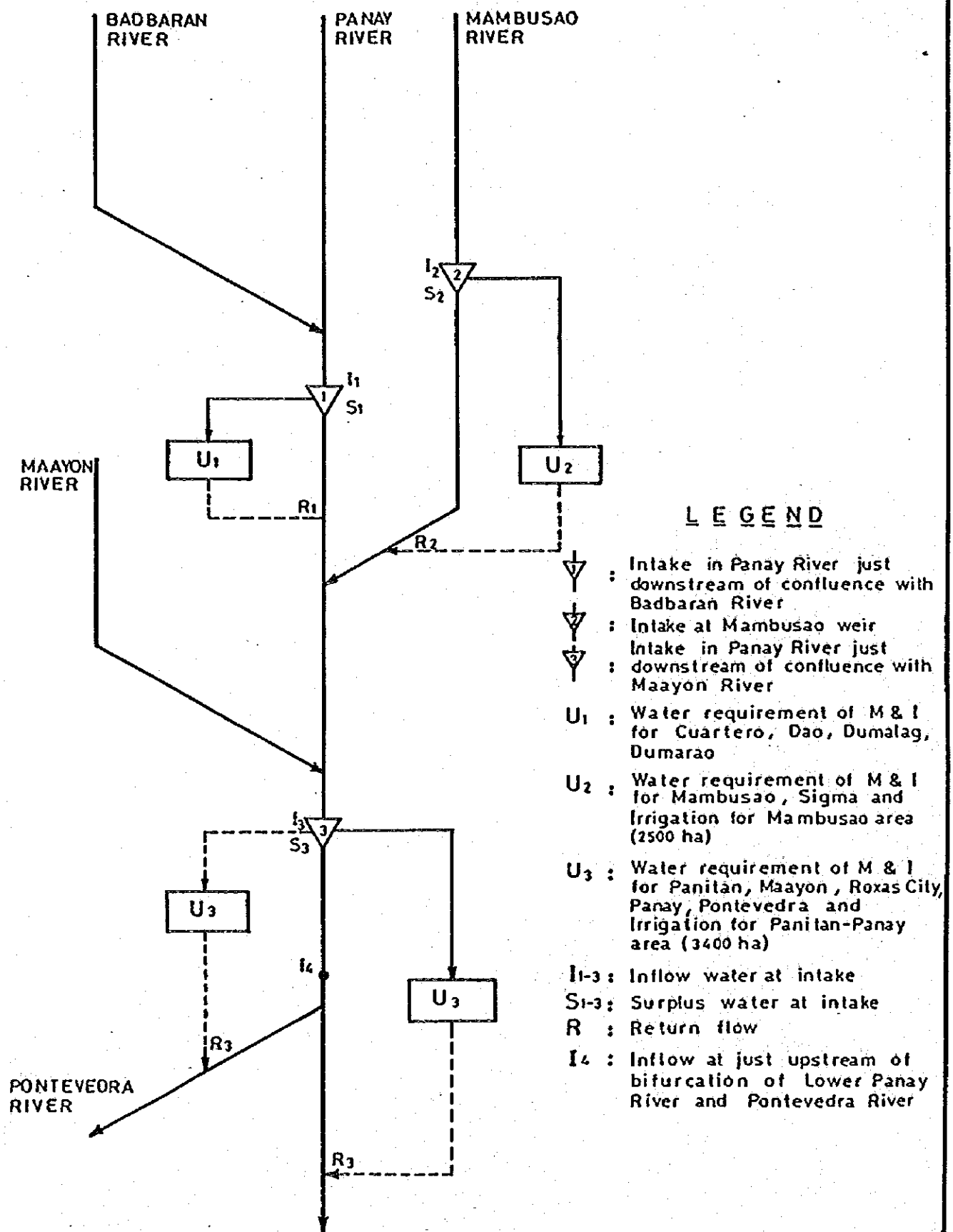
Fig. 3.8 -1 MAP OF COOPERATIVE SERVICE AREA



LEGEND			
GENERATING PLANT	EXISTING	UNDER CONST.	PROPOSED
Hydro			■
Diesel	⊙	△	
Power Barge	⊗		
Thermal			■
TRANSMISSION LINE			
138 KV	—		---
69 KV-(NPC)	—		---
69 KV-Utility	—		---
SUB-STATION	○		

Fig. 3.8-2 PANAY POWER SYSTEM 1984

Fig.39-1 SCHEMATIC DIAGRAMS FOR WATER BUDGET



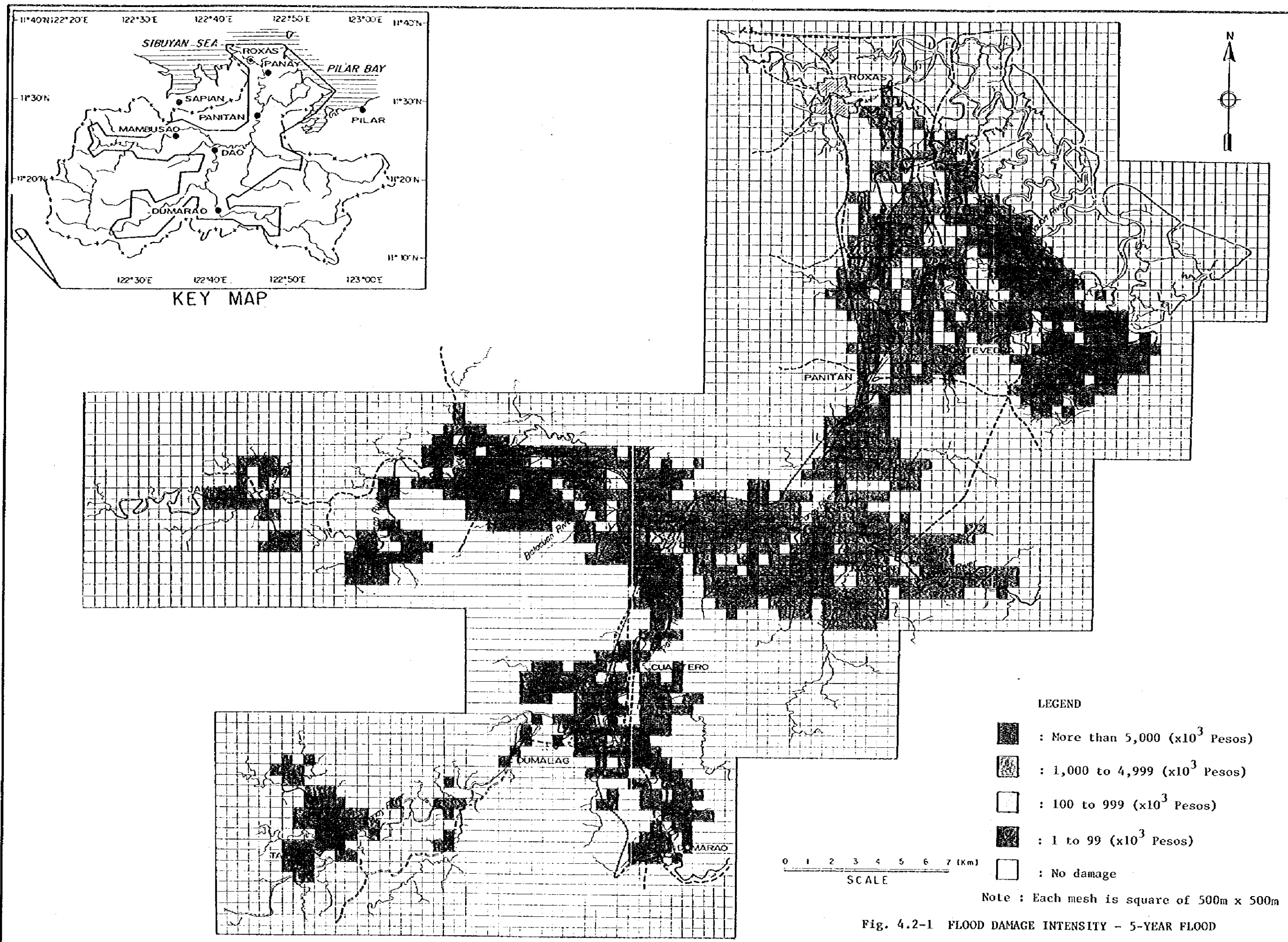


Fig. 4.2-1 FLOOD DAMAGE INTENSITY - 5-YEAR FLOOD

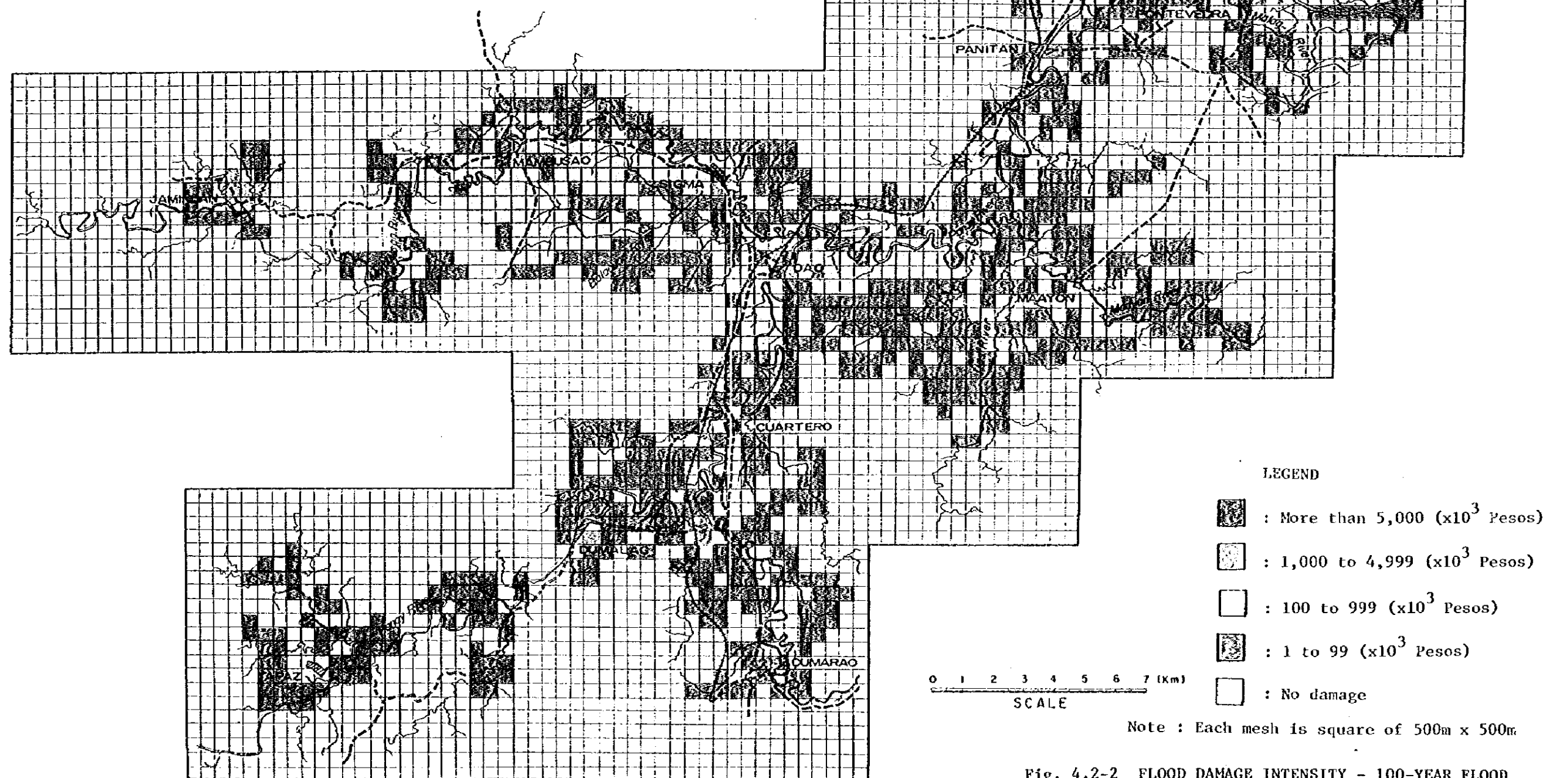
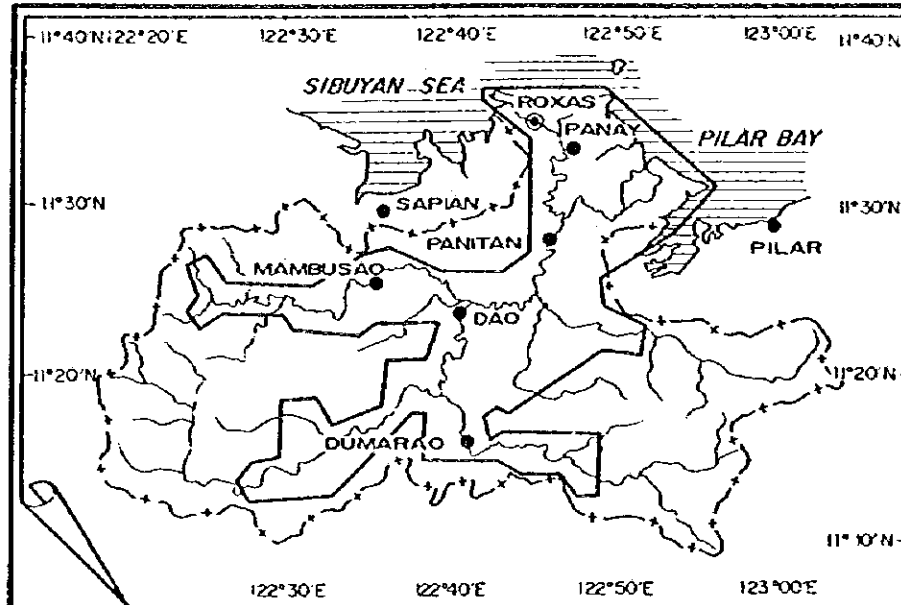
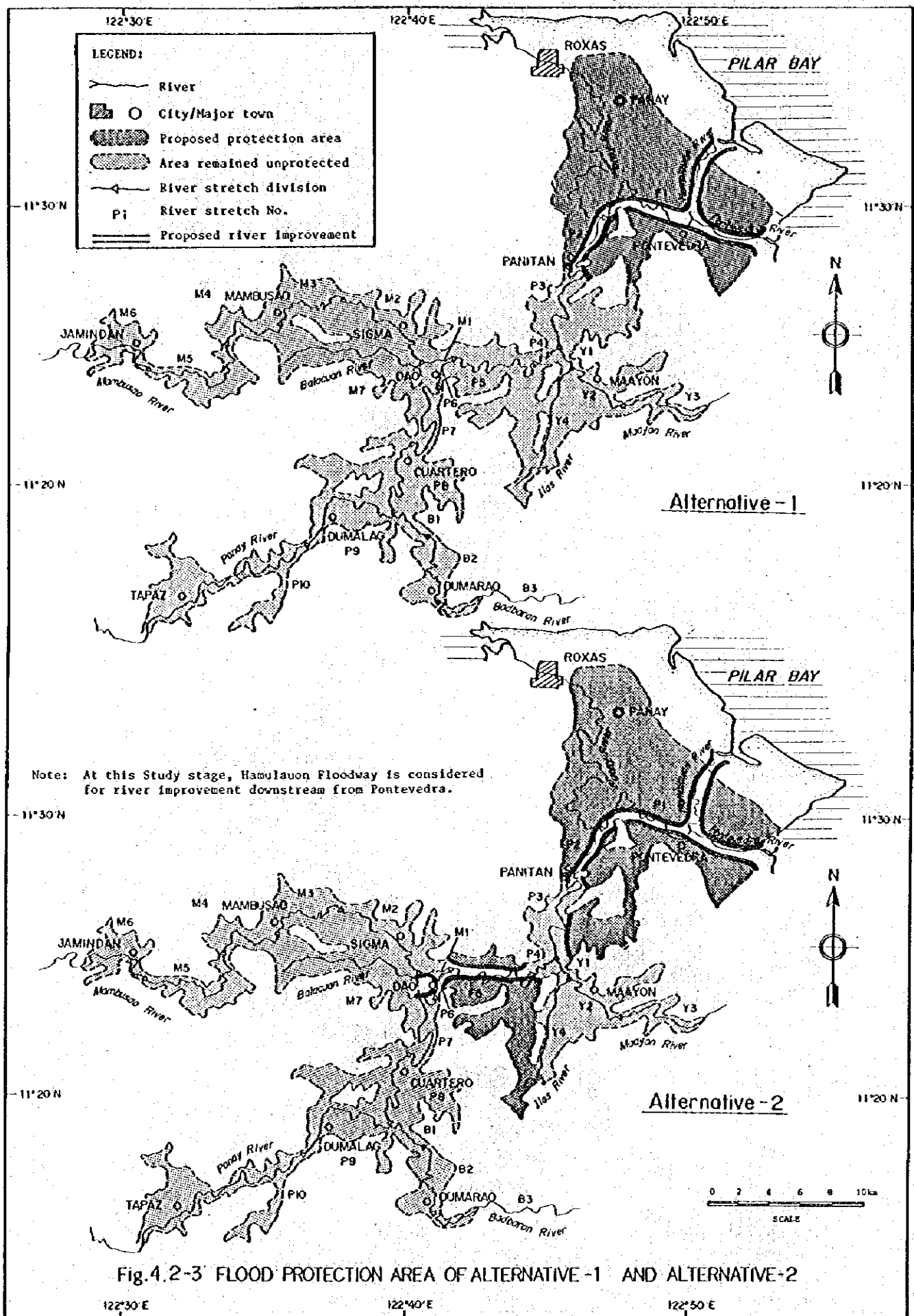
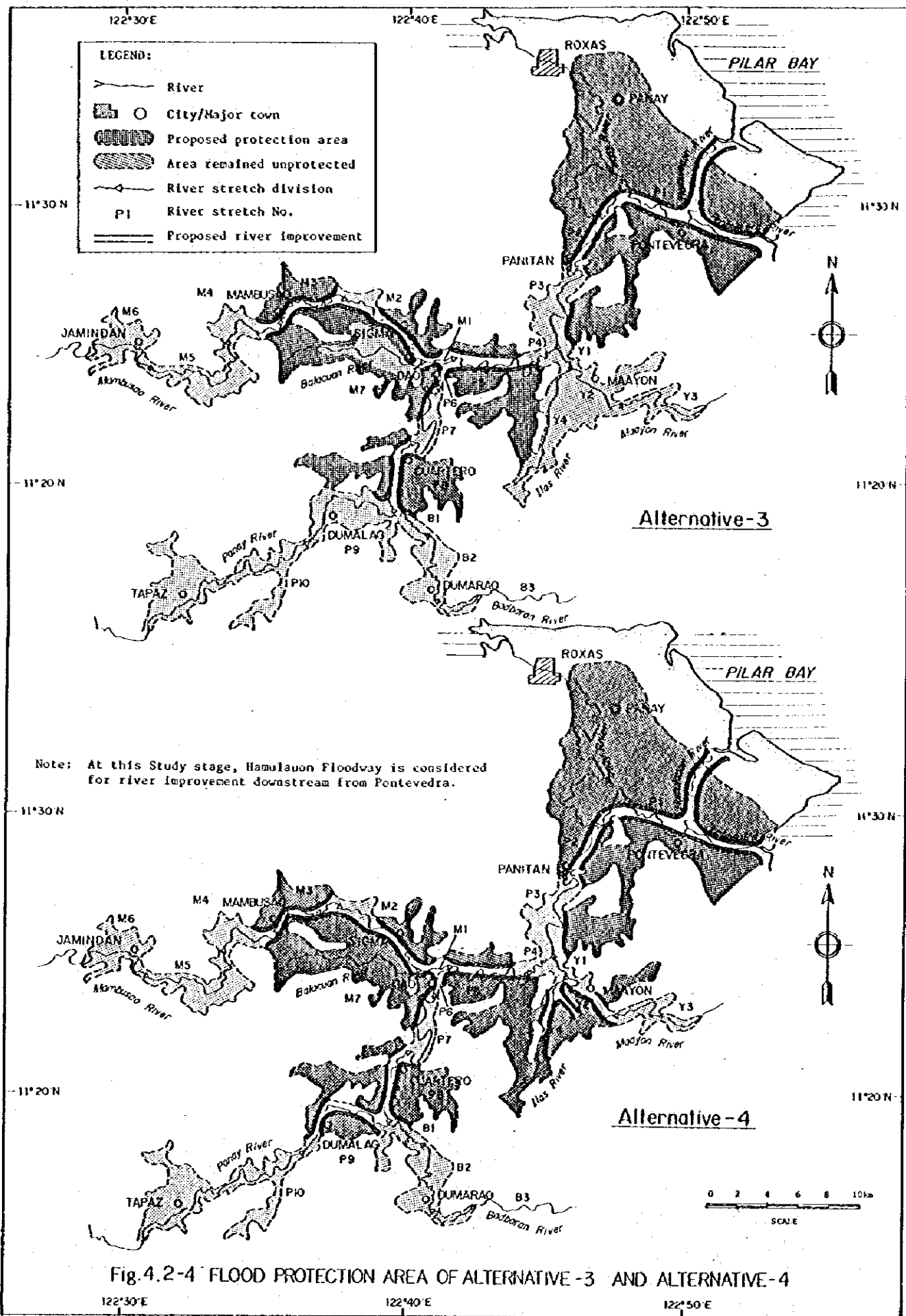
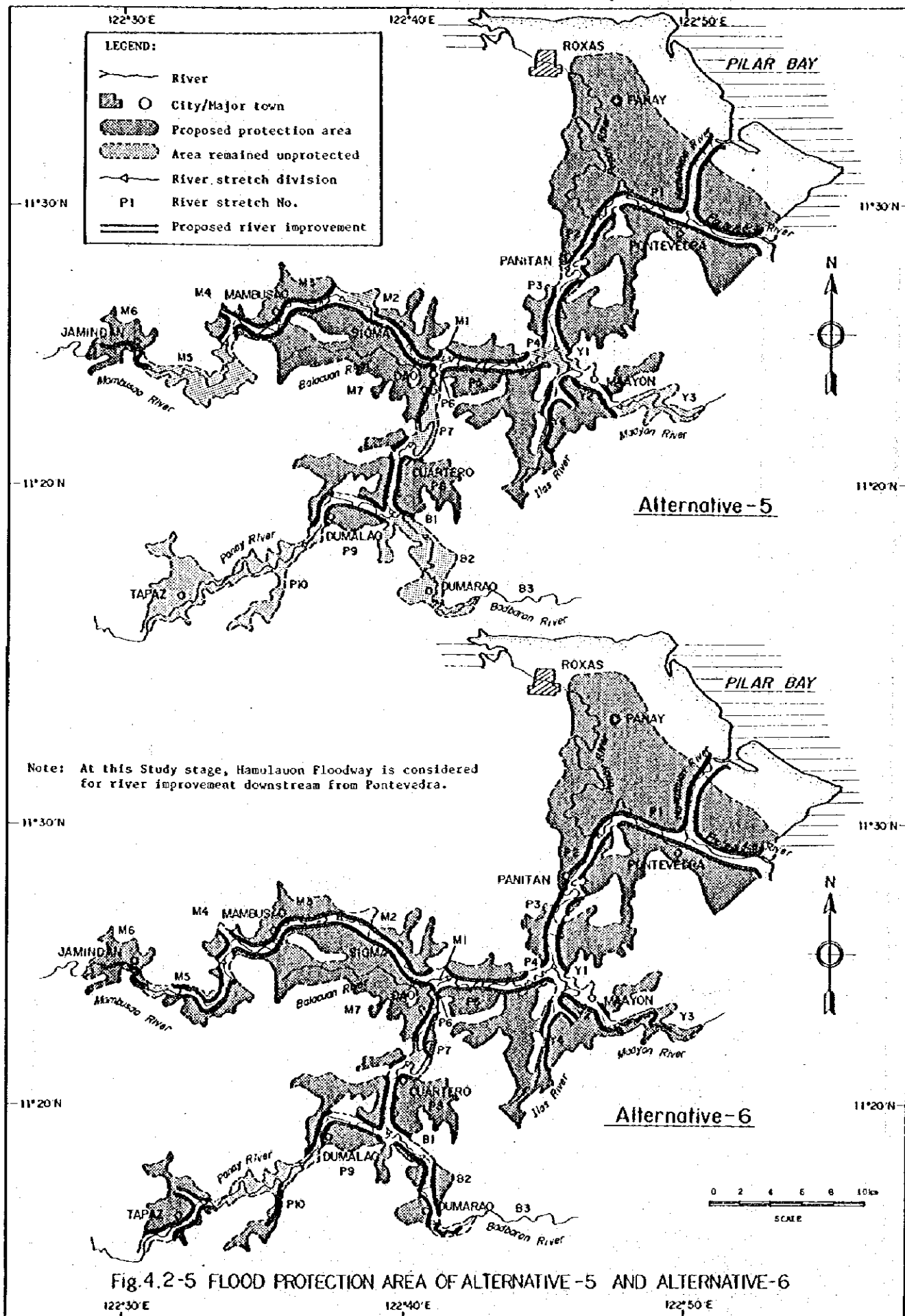
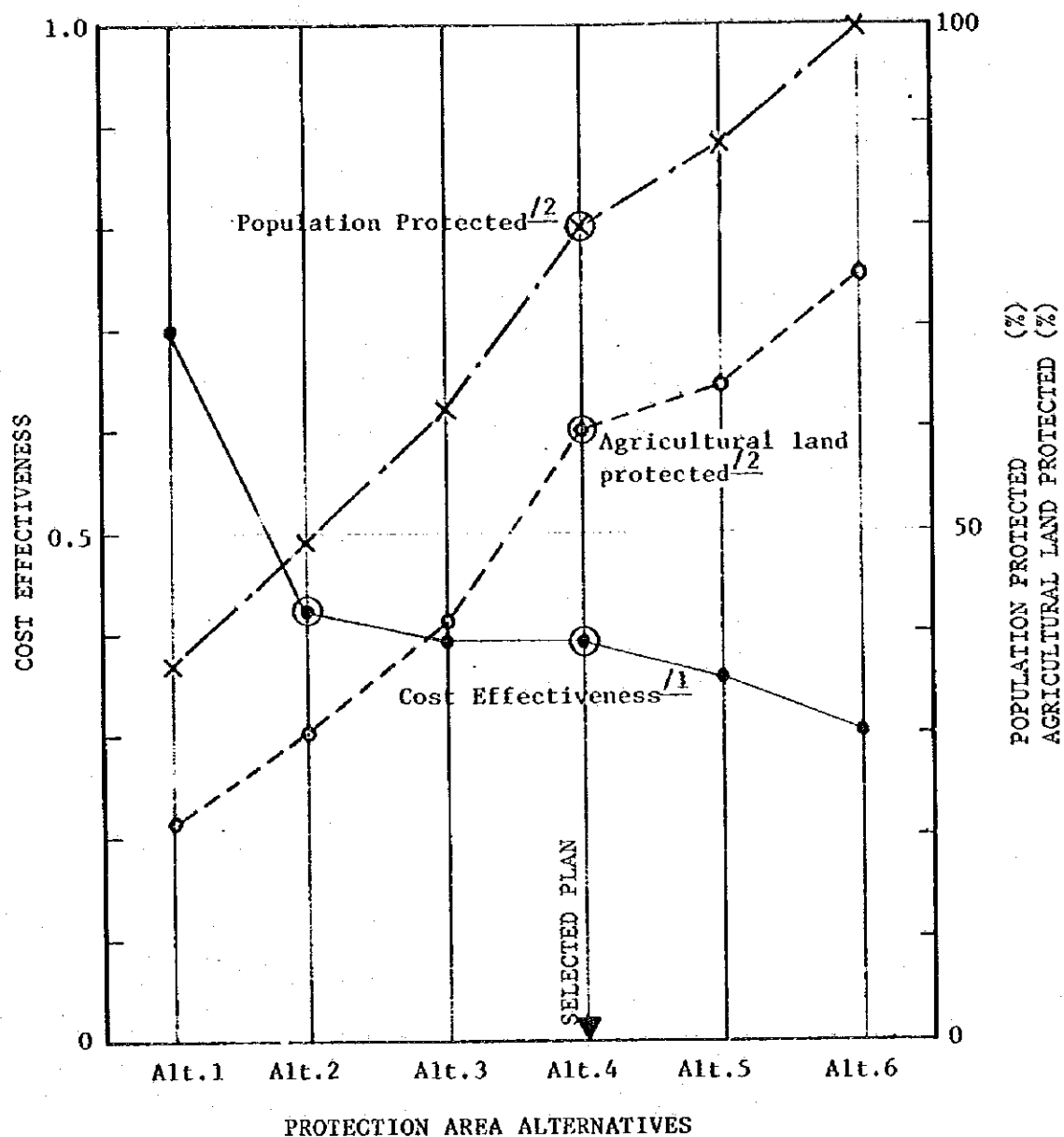


Fig. 4.2-2 FLOOD DAMAGE INTENSITY - 100-YEAR FLOOD









- Notes: /1 Expressed in terms of benefit-cost ratio (present worth of damage reduction/present worth of cost)
- /2 % to total population and agricultural land area in flood prone area
- Points where a notable change in index value is seen.

Fig. 4.2-6 COMPARISON OF FLOOD PROTECTION AREA ALTERNATIVES

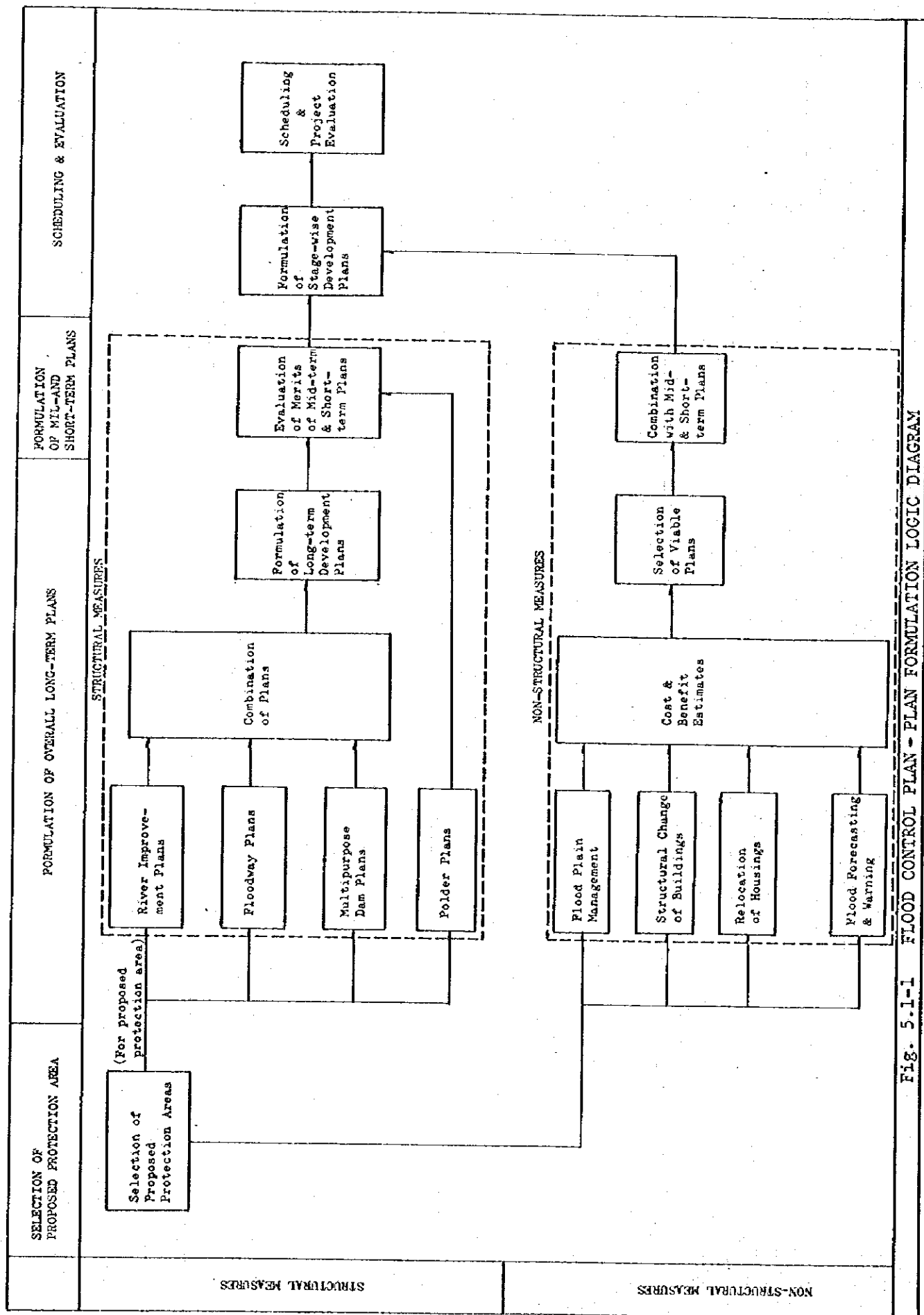


Fig. 5.1-1 FLOOD CONTROL PLAN - PLAN FORMULATION LOGIC DIAGRAM

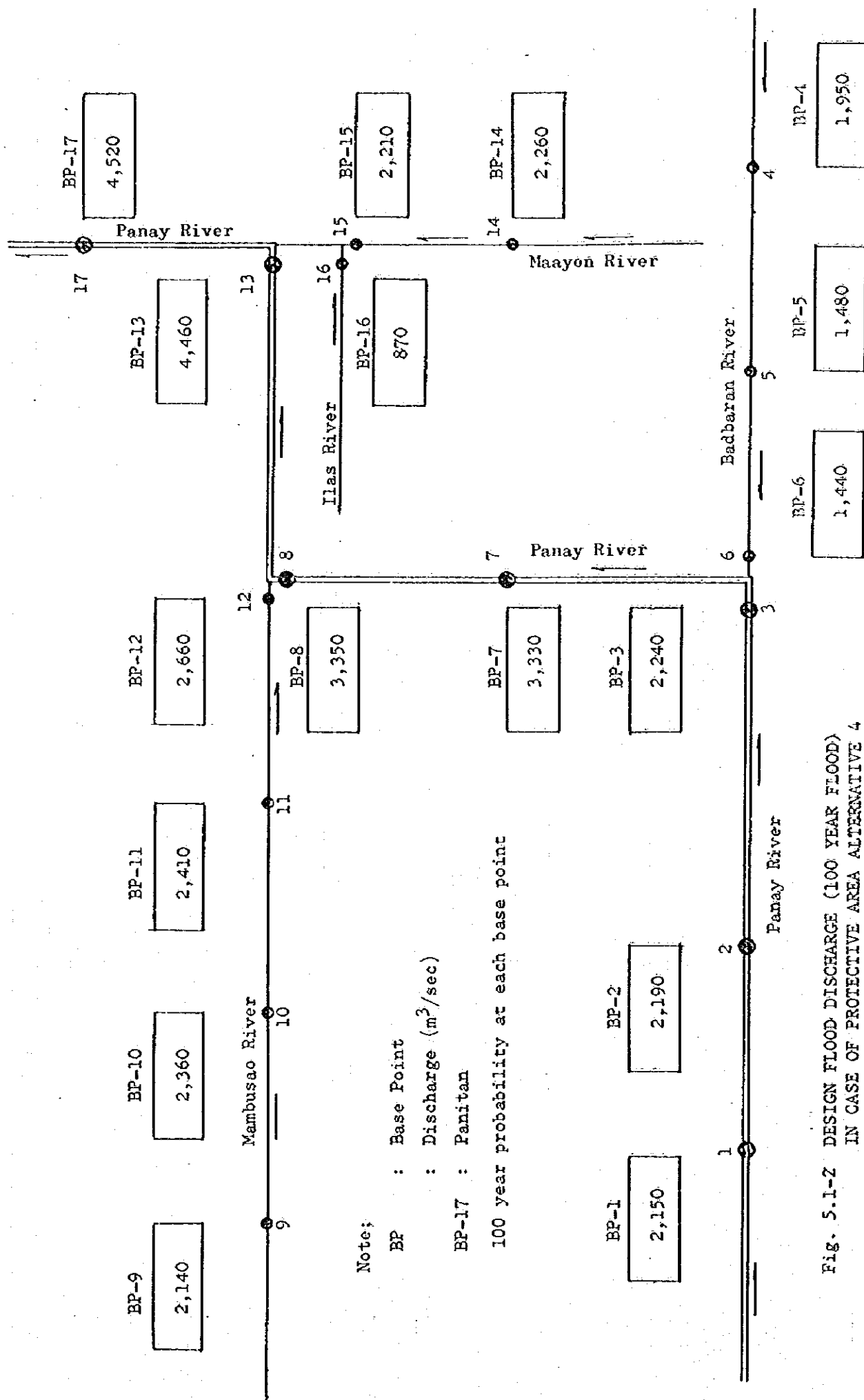
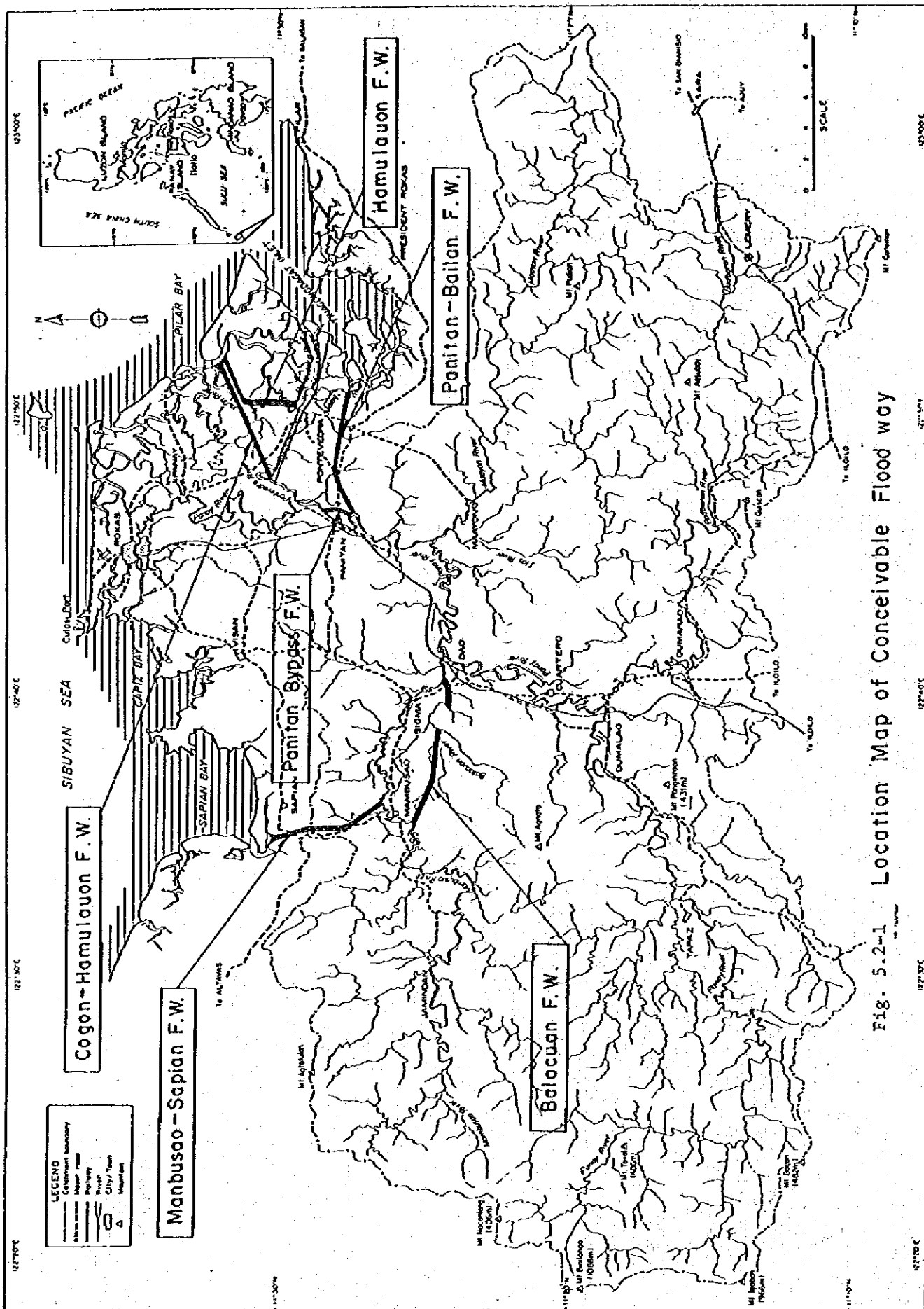


Fig. 5.1-2 DESIGN FLOOD DISCHARGE (100 YEAR FLOOD)
 IN CASE OF PROTECTIVE AREA ALTERNATIVE 4



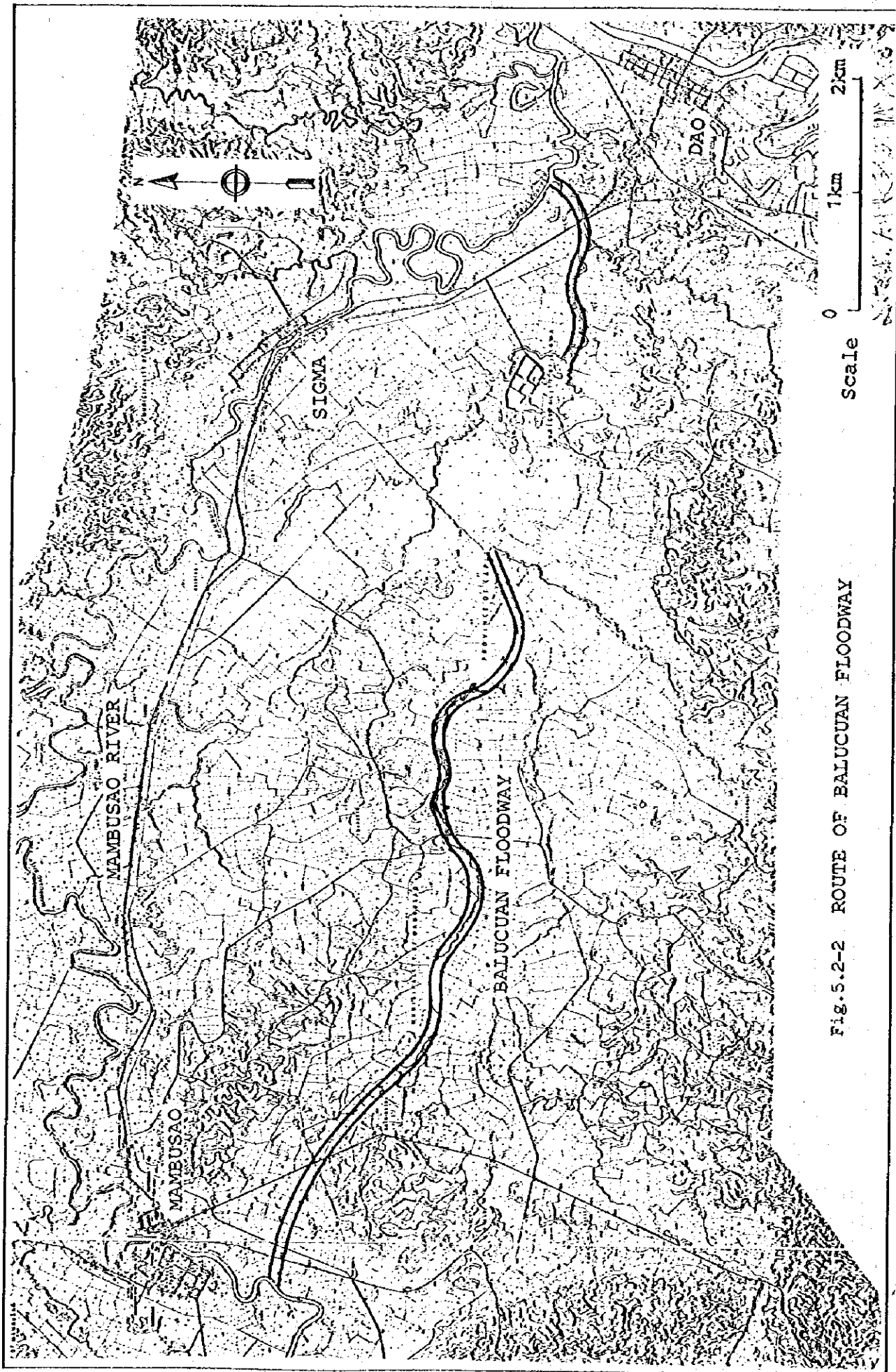


Fig.5.2-2 ROUTE OF BALUCUAN FLOODWAY

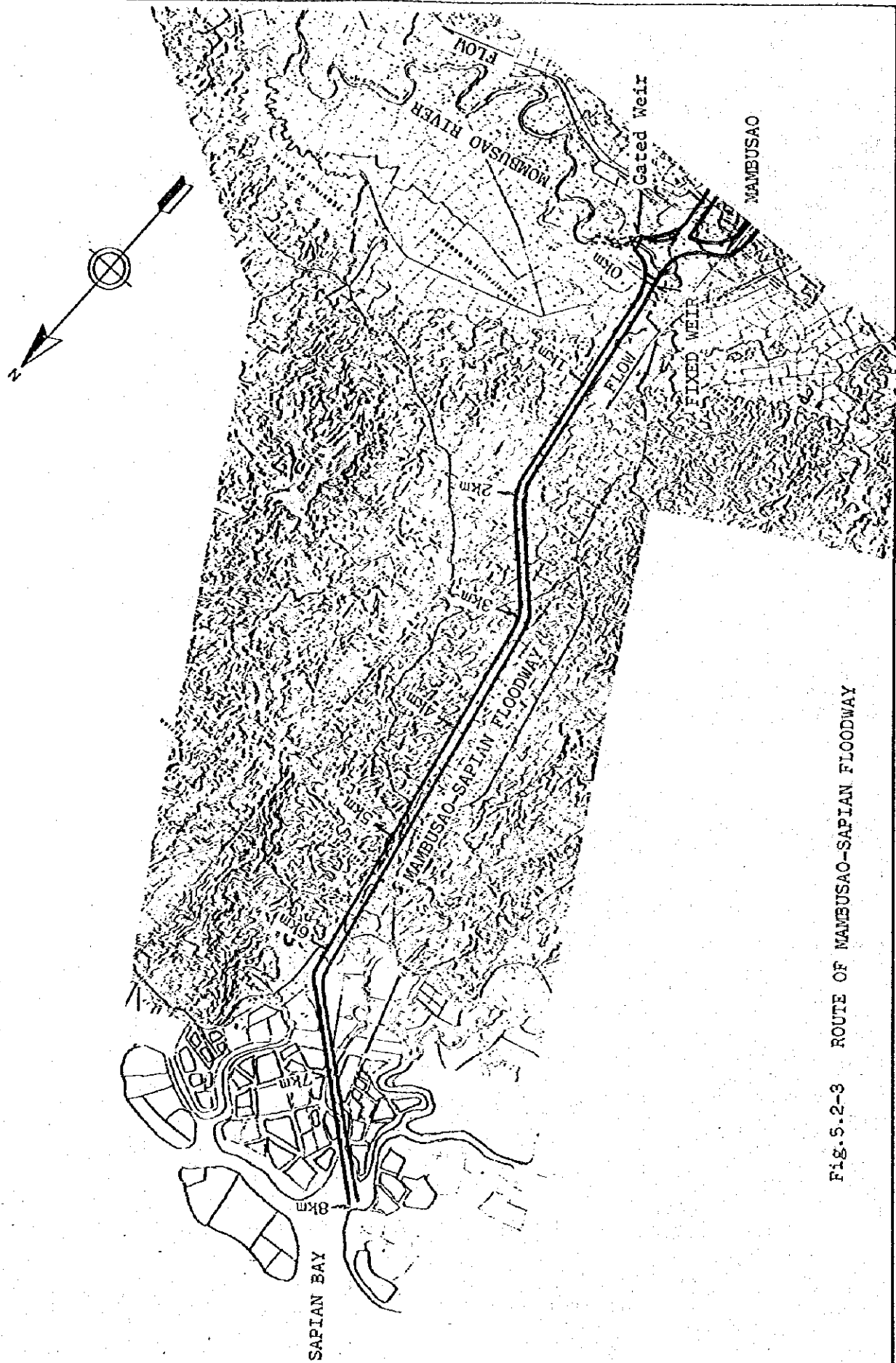


Fig. S.2-3 ROUTE OF MAMBUSAO-SAPIEN FLOODWAY

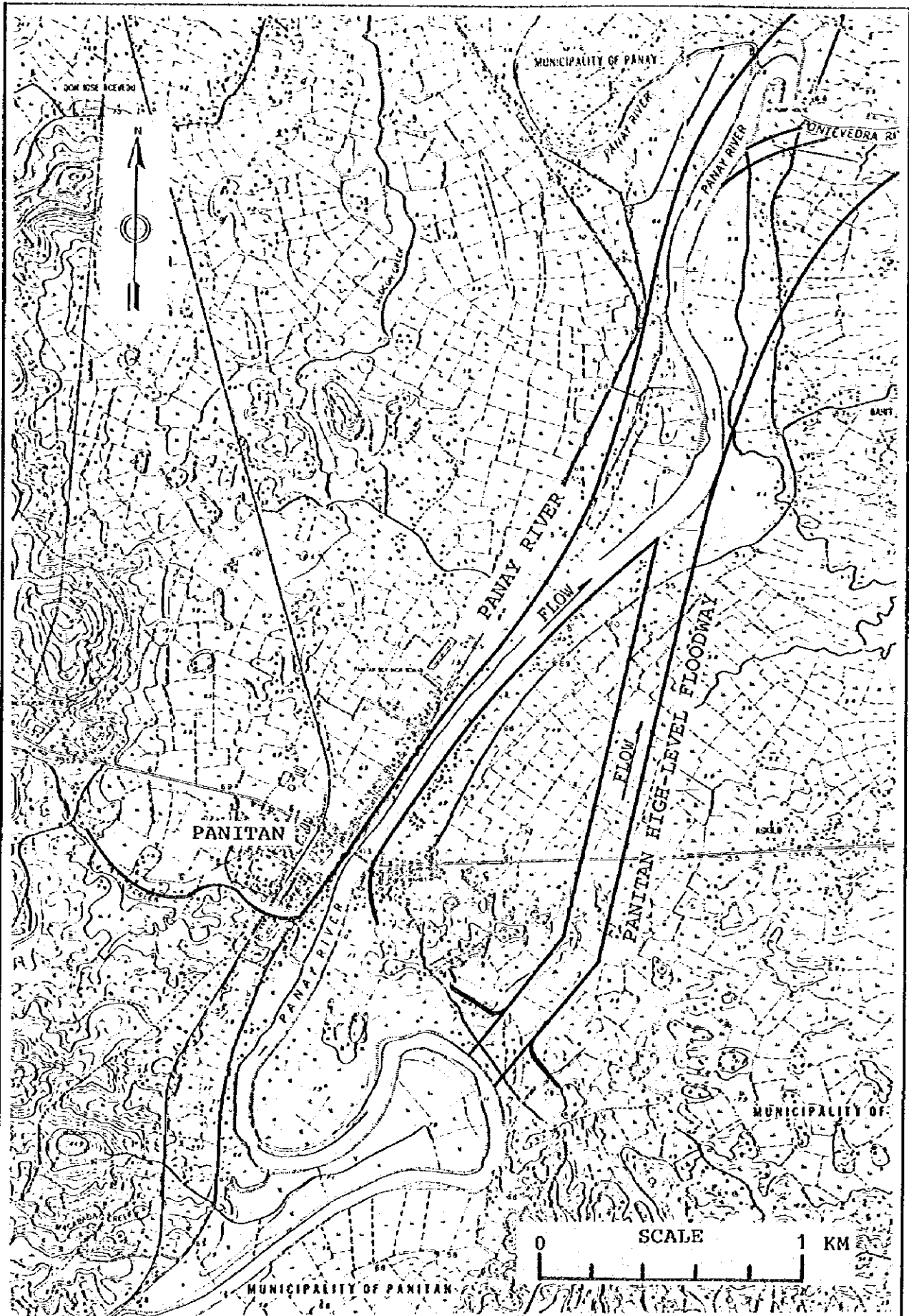


Fig. 5.2-4 ROUTE OF PANITAN HIGH-LEVEL FLOODWAY

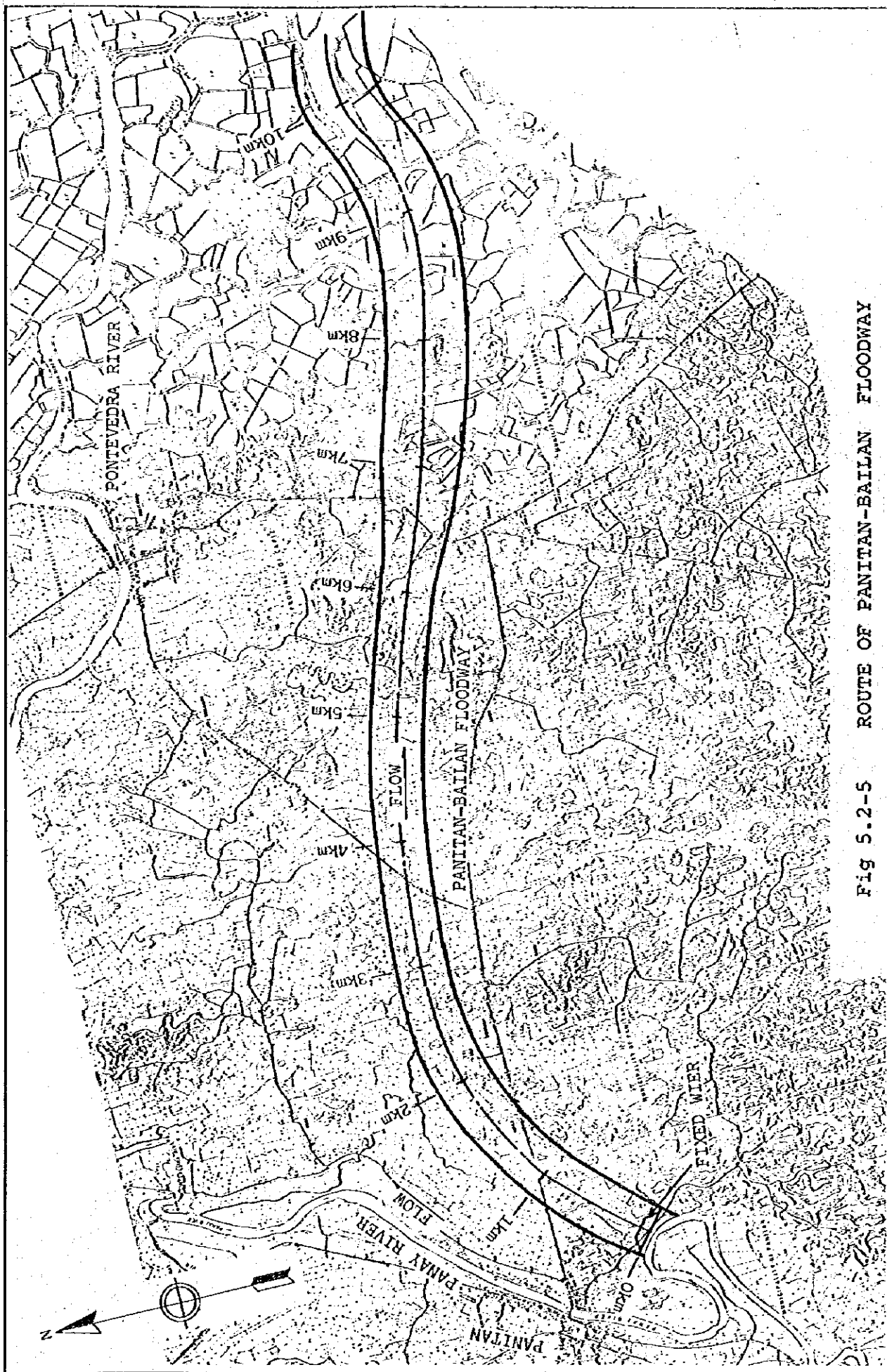


Fig 5.2-5 ROUTE OF PANITAN-BAILAN FLOODWAY

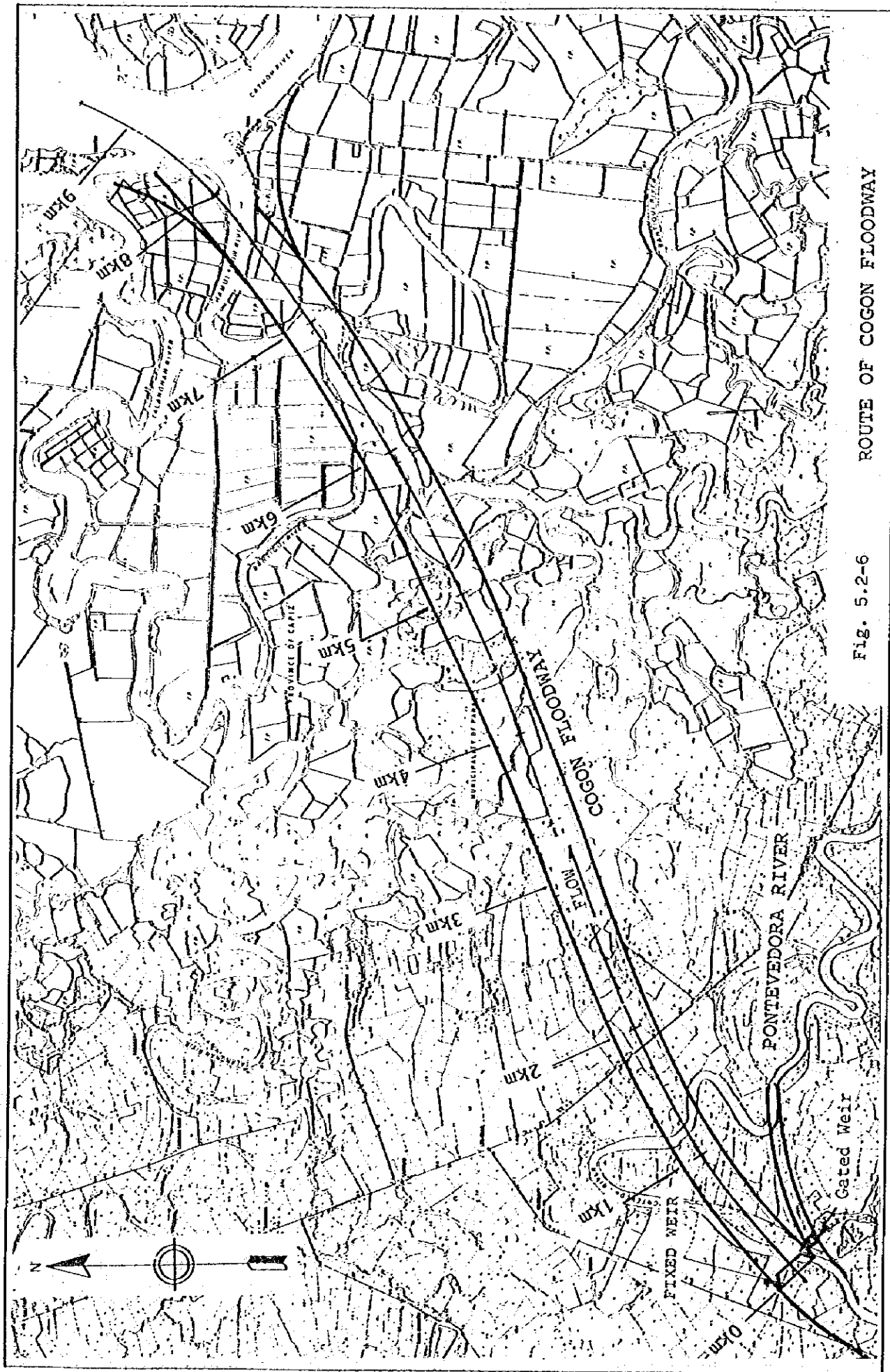


Fig. 5.2-6 ROUTE OF COGON FLOODWAY

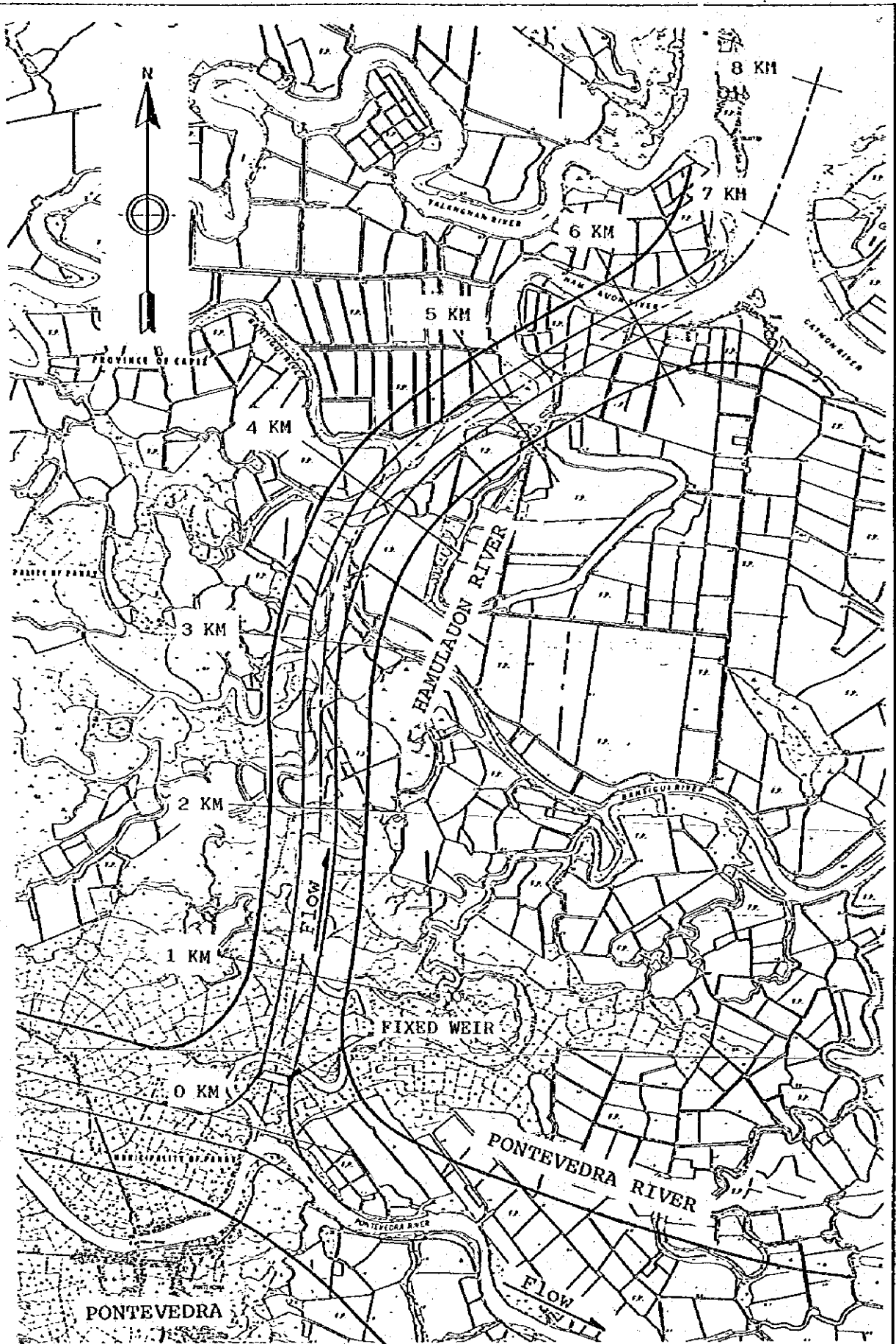
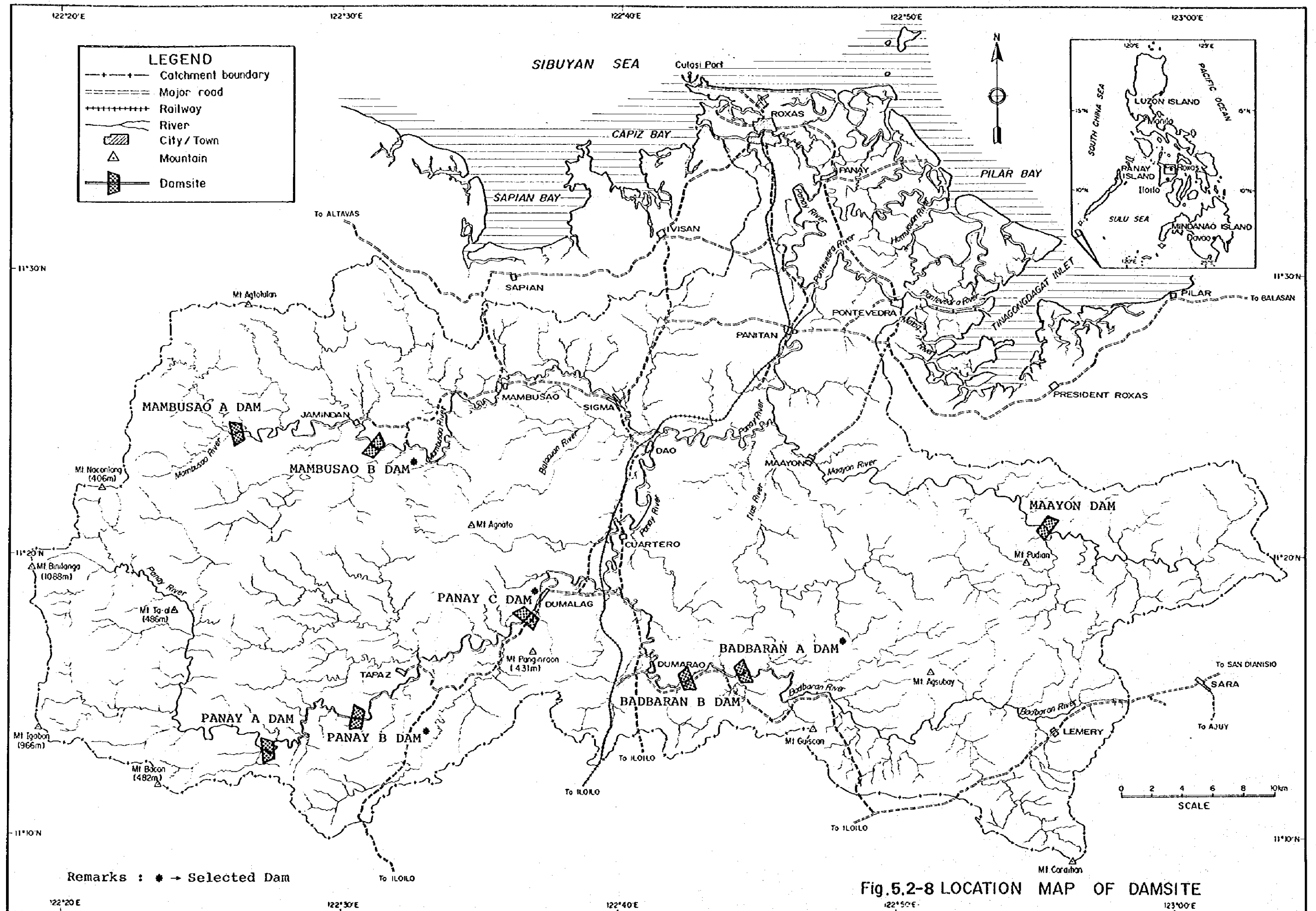


Fig. 5.2-7

ROUTE OF HAMULAUN FLOODWAY



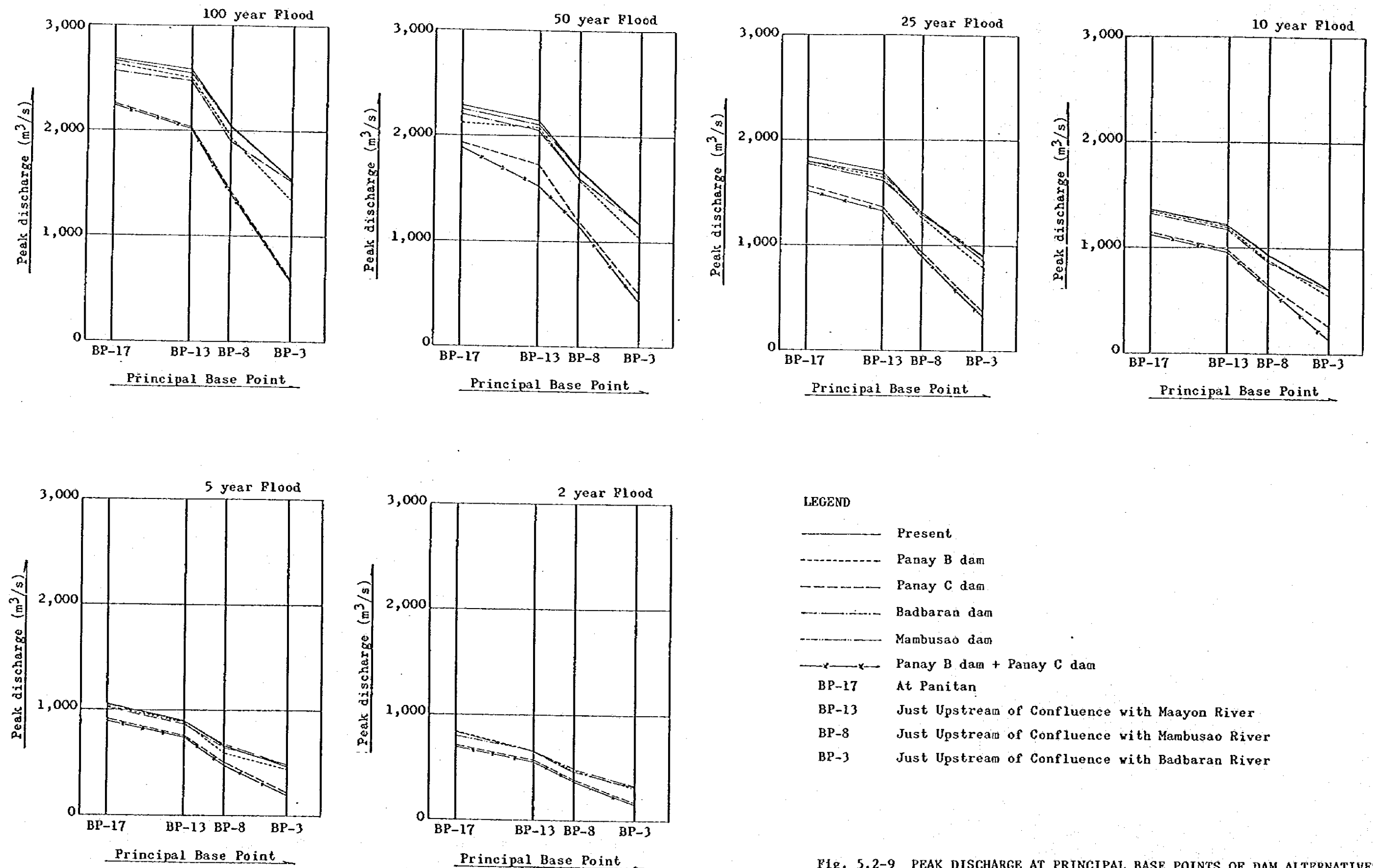


Fig. 5.2-9 PEAK DISCHARGE AT PRINCIPAL BASE POINTS OF DAM ALTERNATIVES
(Under the Present River Condition)

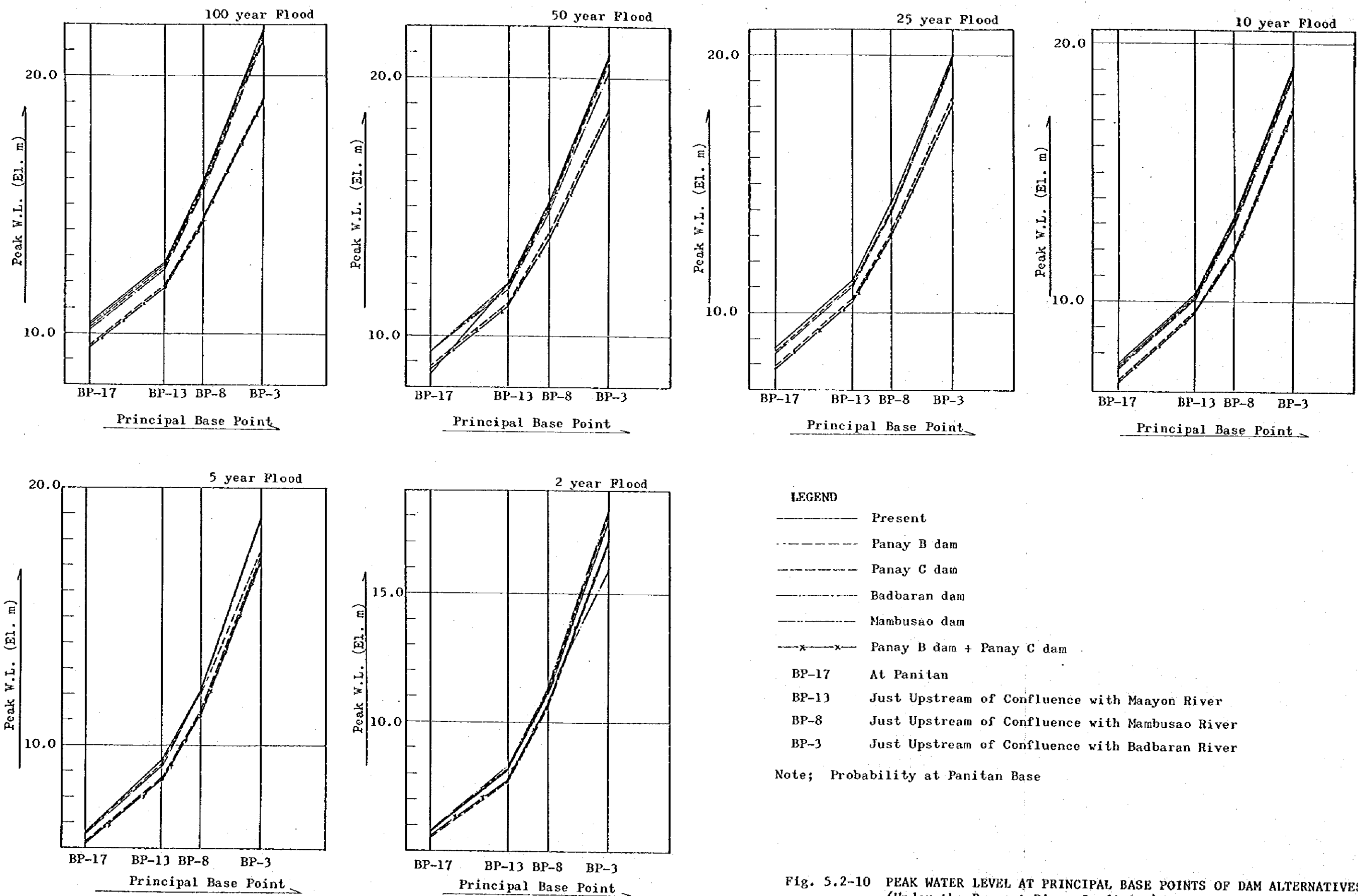


Fig. 5.2-10 PEAK WATER LEVEL AT PRINCIPAL BASE POINTS OF DAM ALTERNATIVES (Under the Present River Condition)



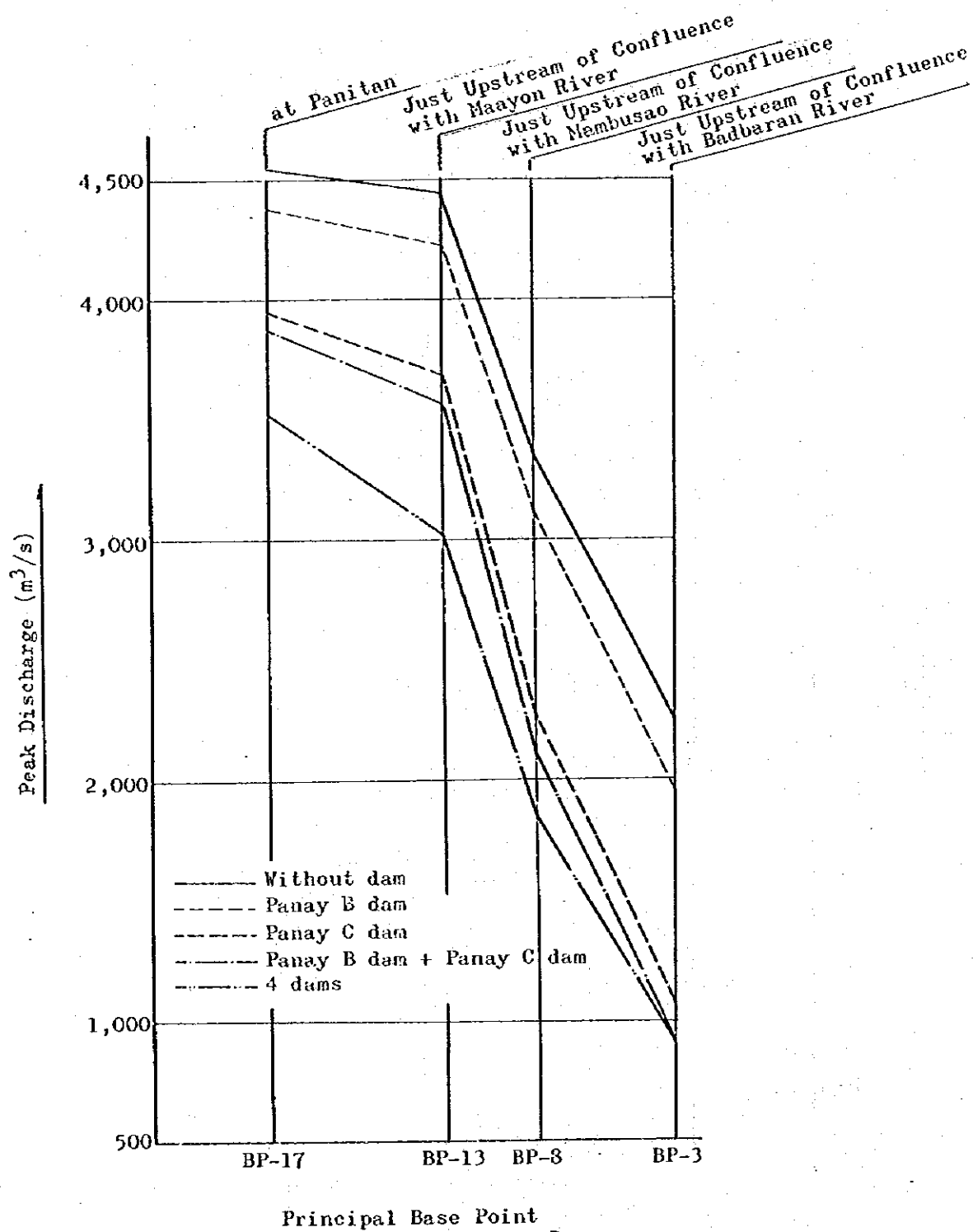


Fig. 5.2-11 Peak Discharge at Principal Base Points along Panay River in LP Alternatives with Dam(s) (100 year flood)*

* Probability at Each Base Point

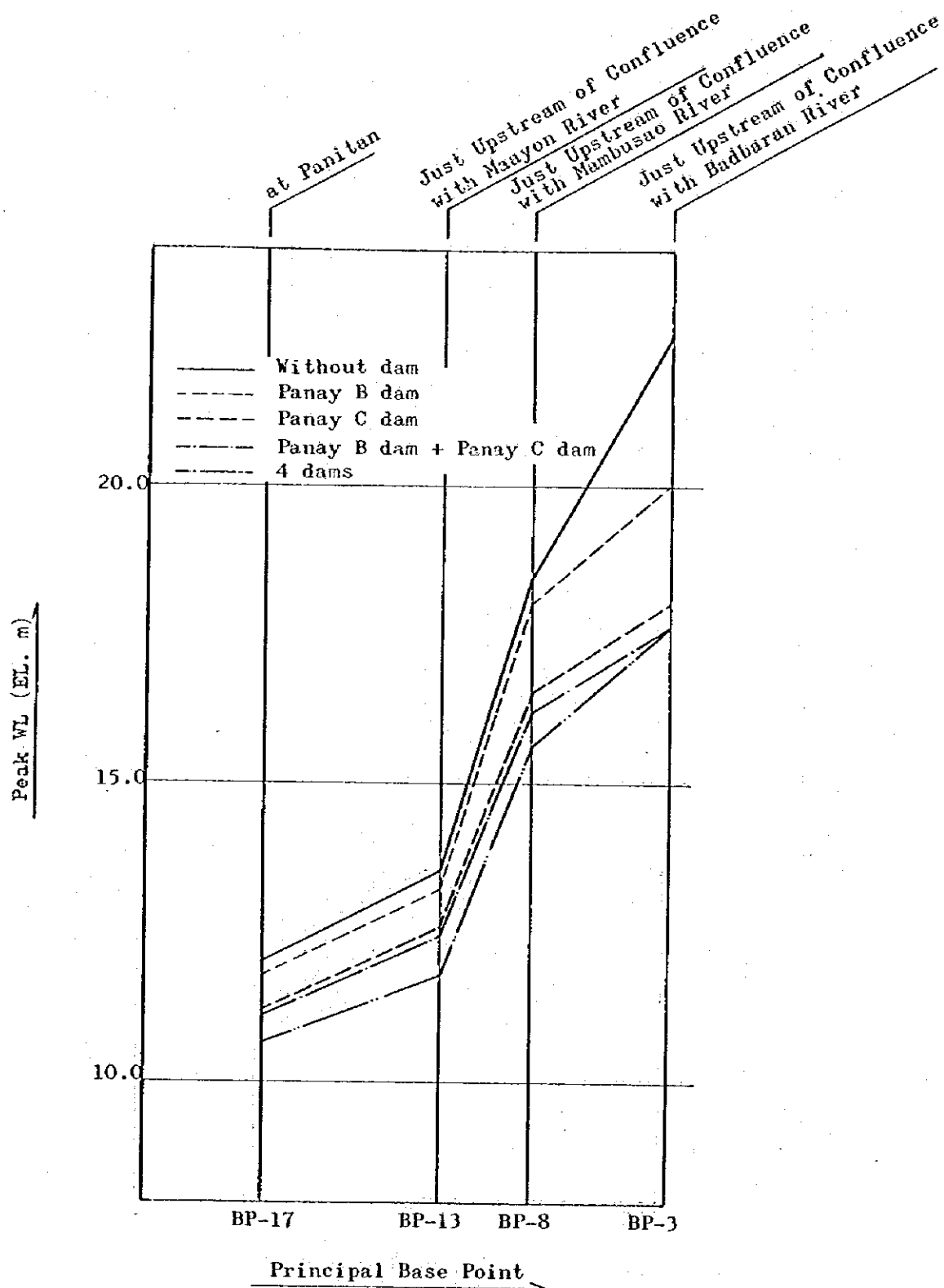


Fig. 5.2-12 Peak Water Level at the Principal Base Points along the Panay River in LP Alternatives with Dam(s) (100 year flood)*

* Probability at Each Base Point

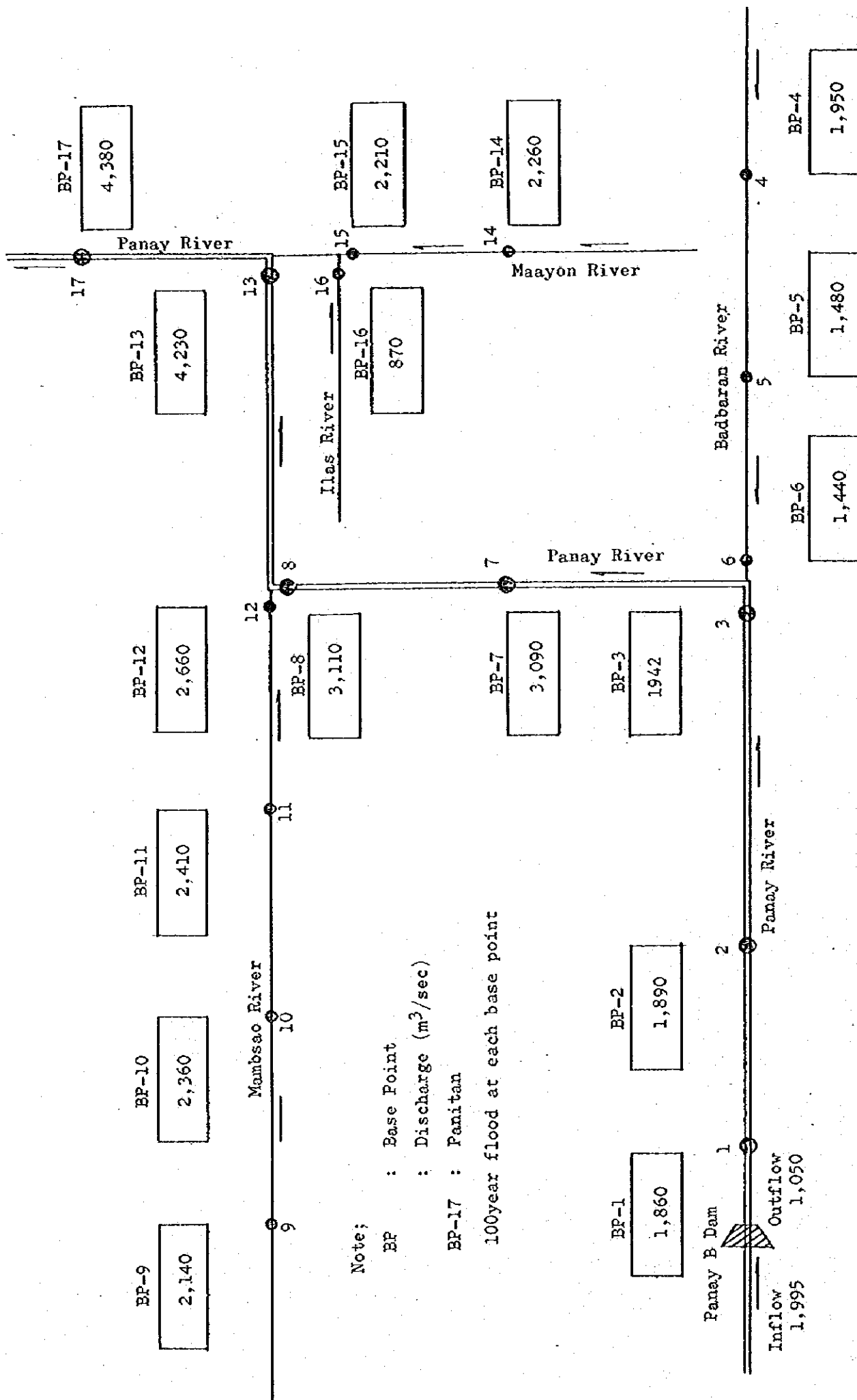


Fig. 5.2-13 Design Flood Discharge Distribution
 in case of LP Alternative DR-1

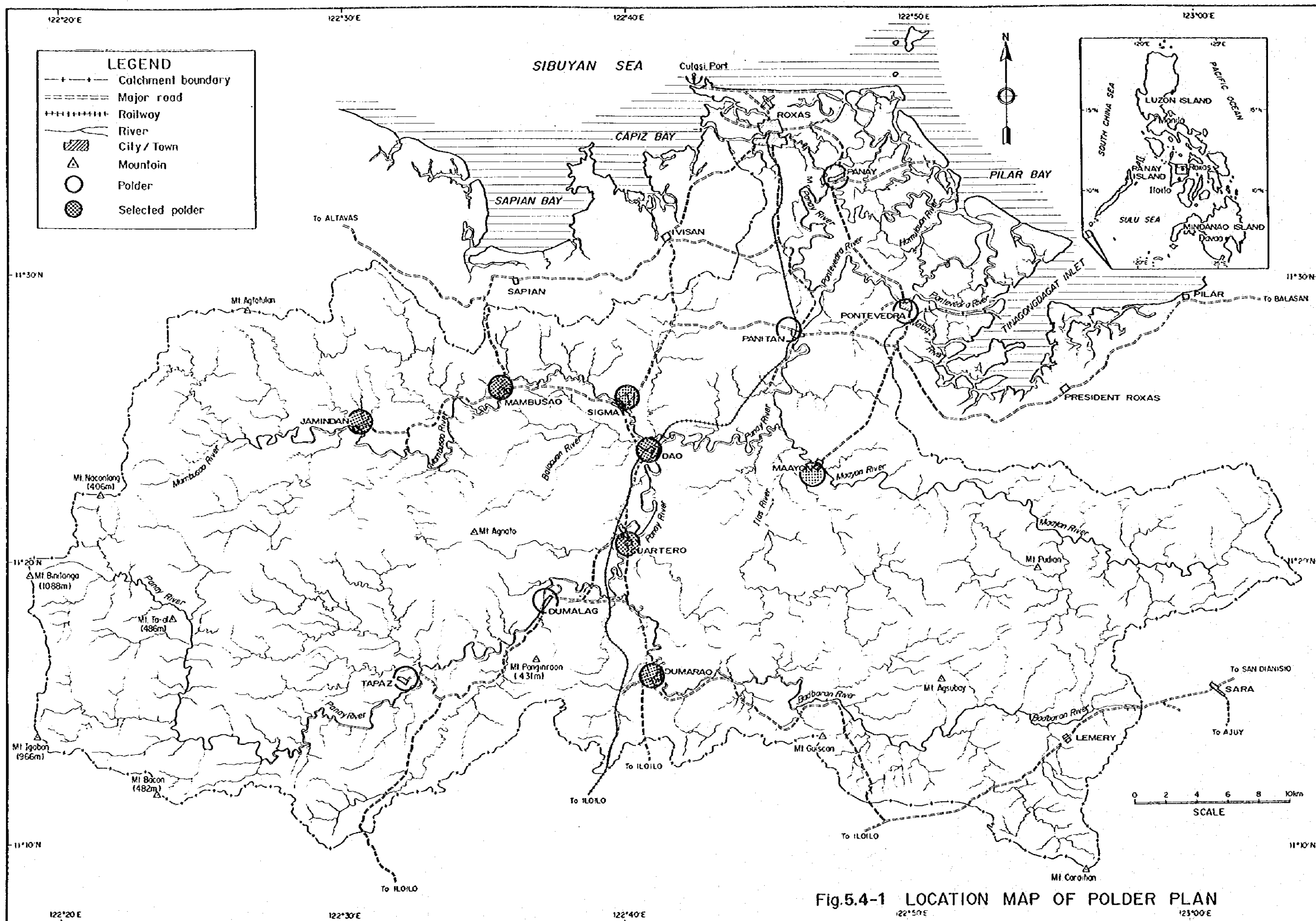
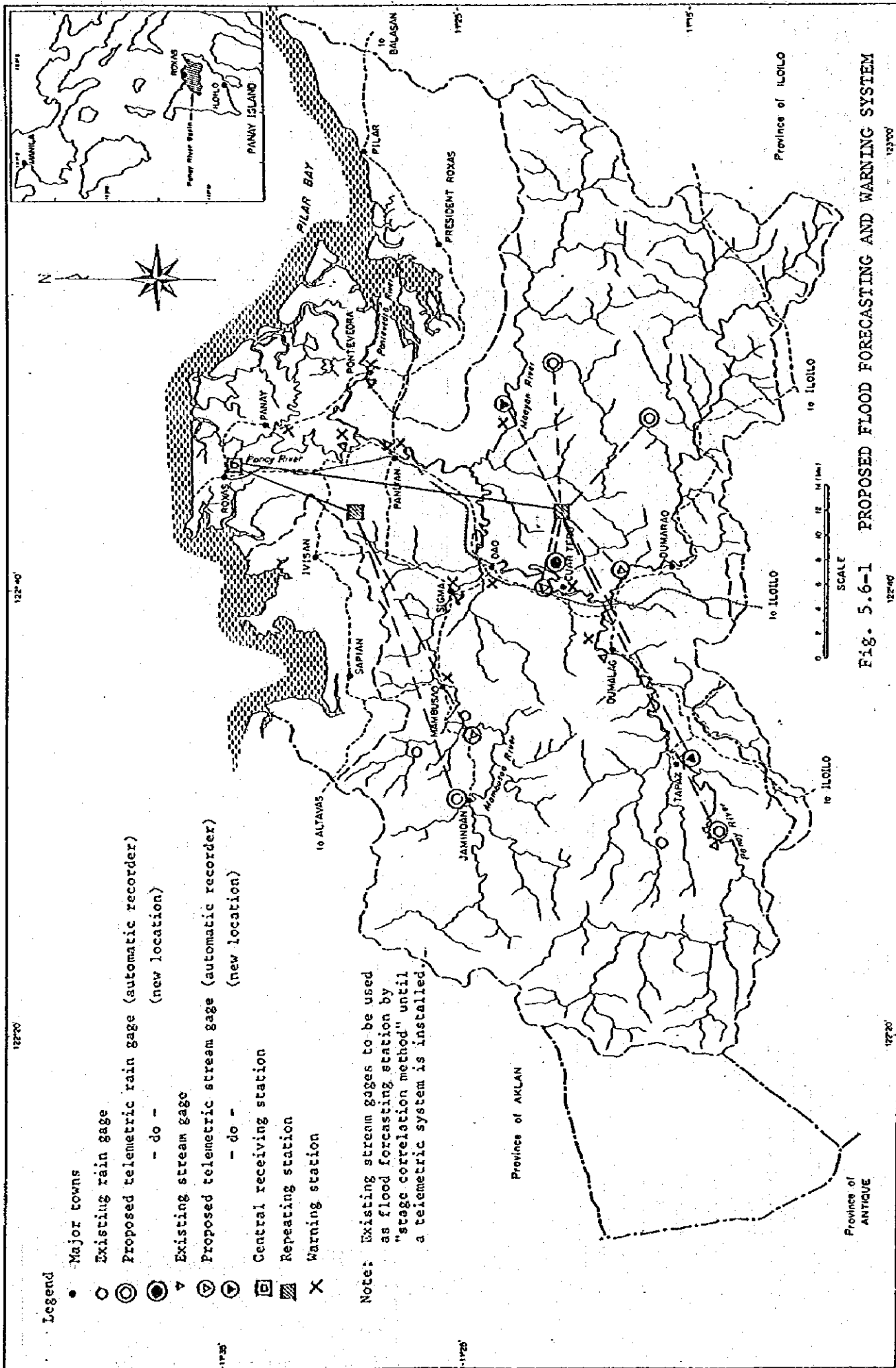


Fig.5.4-1 LOCATION MAP OF POLDER PLAN





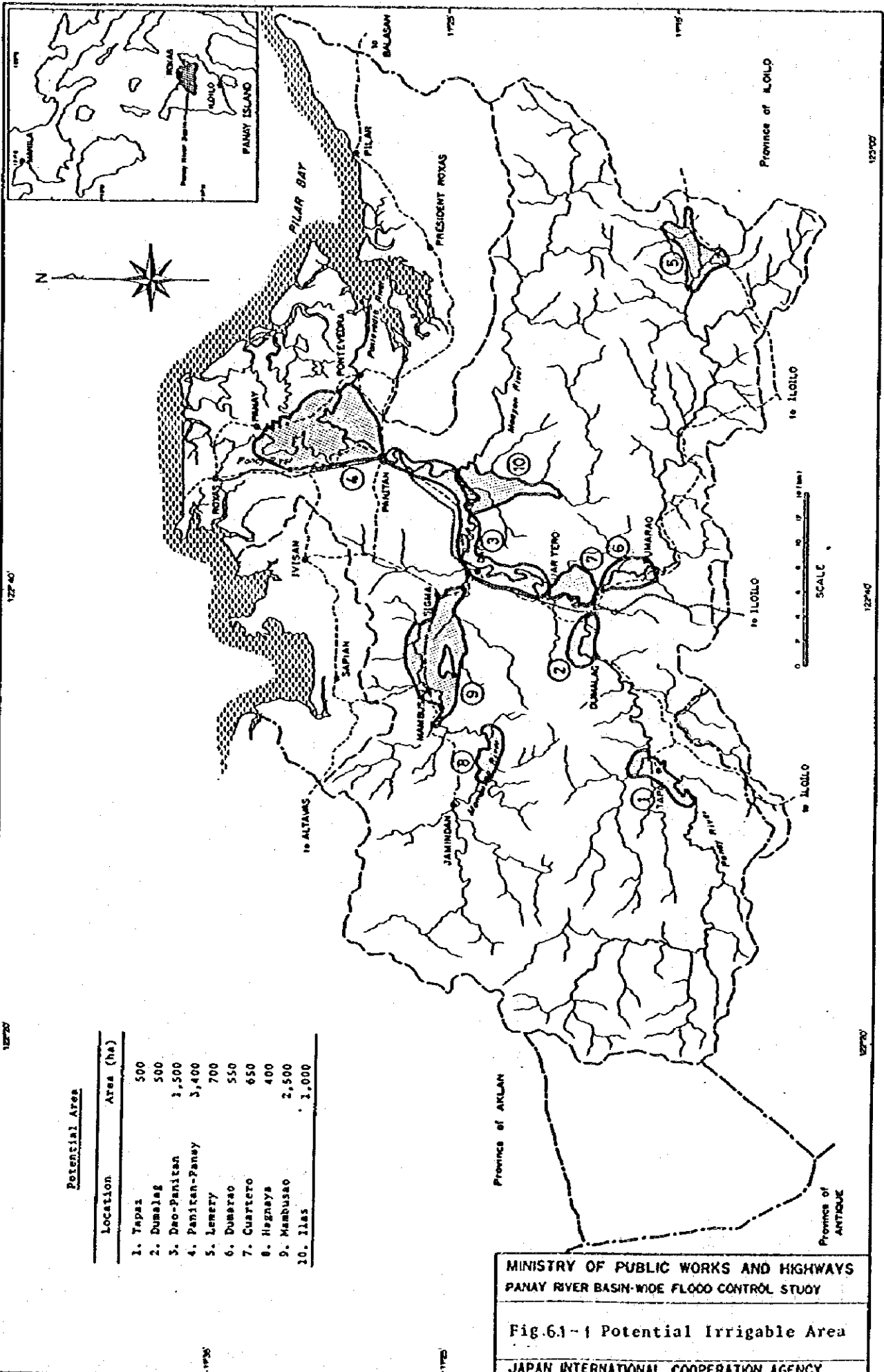
Potential Area

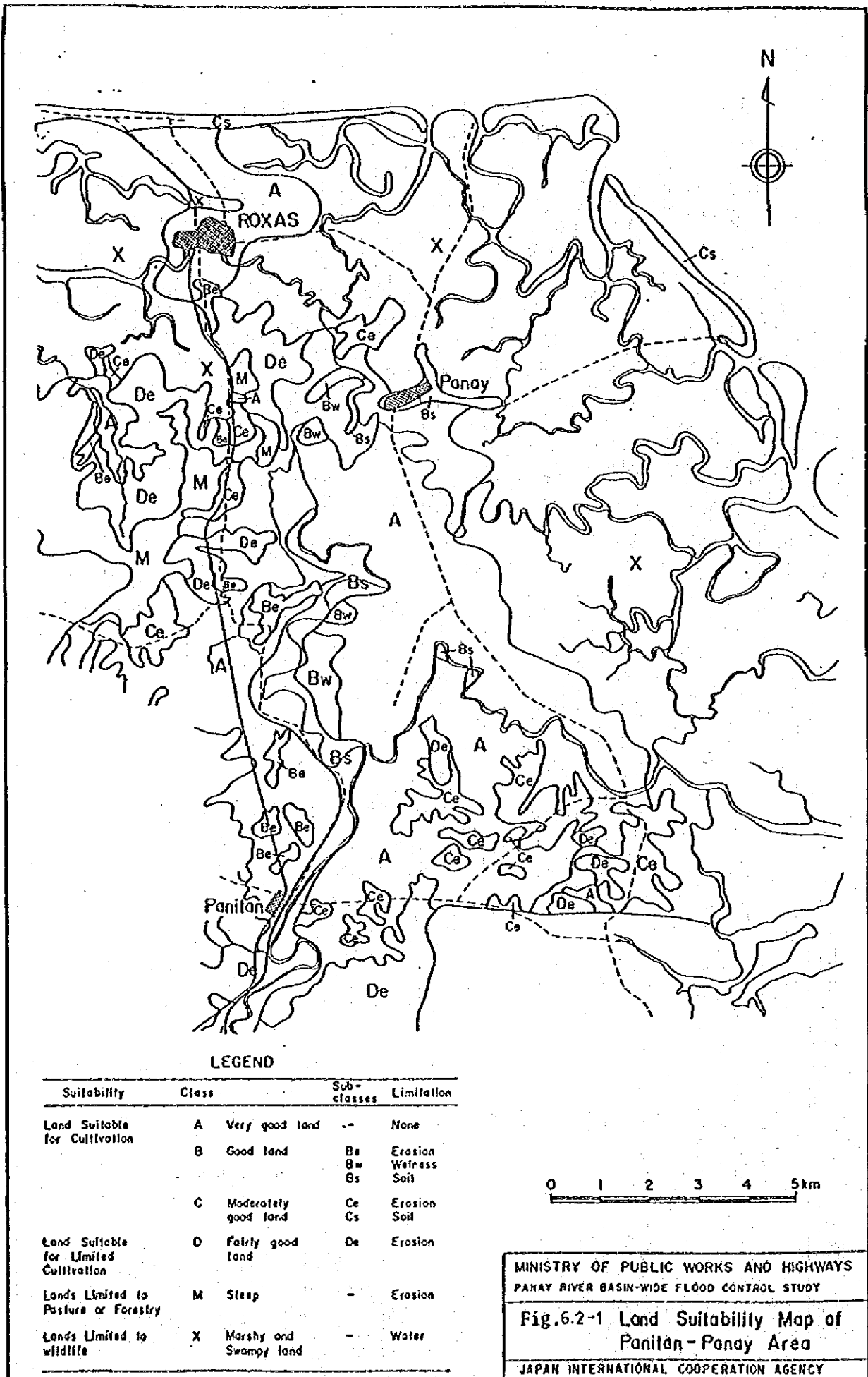
Location	Area (ha)
1. Tapaz	500
2. Dumlalag	500
3. Deo-Panitan	3,500
4. Panitan-Panay	3,400
5. Lemery	700
6. Dumarao	550
7. Cuartero	650
8. Hagnaya	400
9. Mambusao	2,500
10. Iilas	3,000

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Fig.6.1-1 Potential Irrigable Area

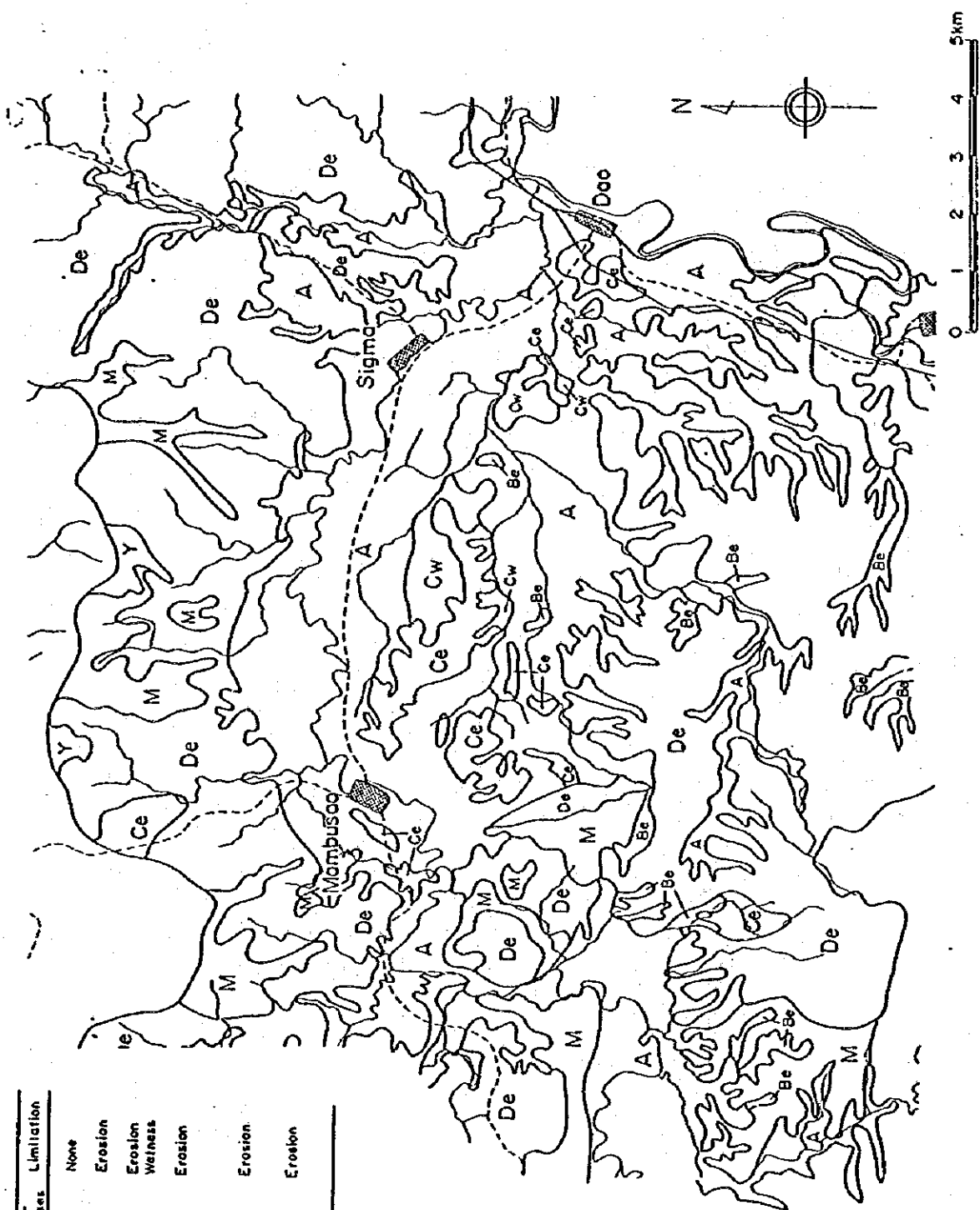
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LEGEND

Suitability	Class	Sub-Classes	Limitation
Land Suitable for Cultivation	A	Very good land	-
	B	Good land	Be Erosion
	C	Moderately good land	Ce Erosion Cw Wetness
	D	Fairly good land	De Erosion
Land Suitable for Limited Cultivation	M	Steep	- Erosion
Land Limited to Pasture or Forestry	Y	Very hilly mountainous	- Erosion

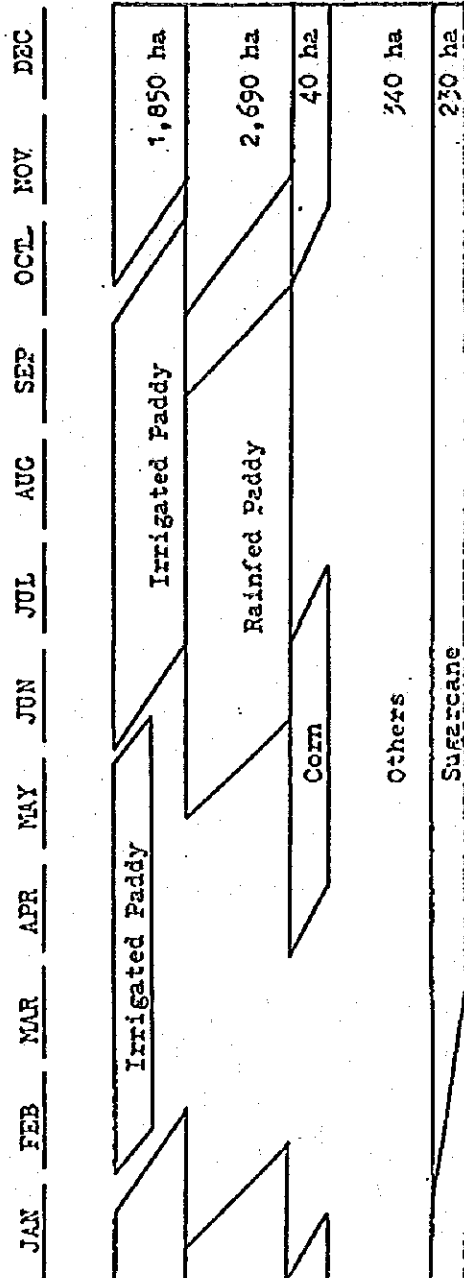


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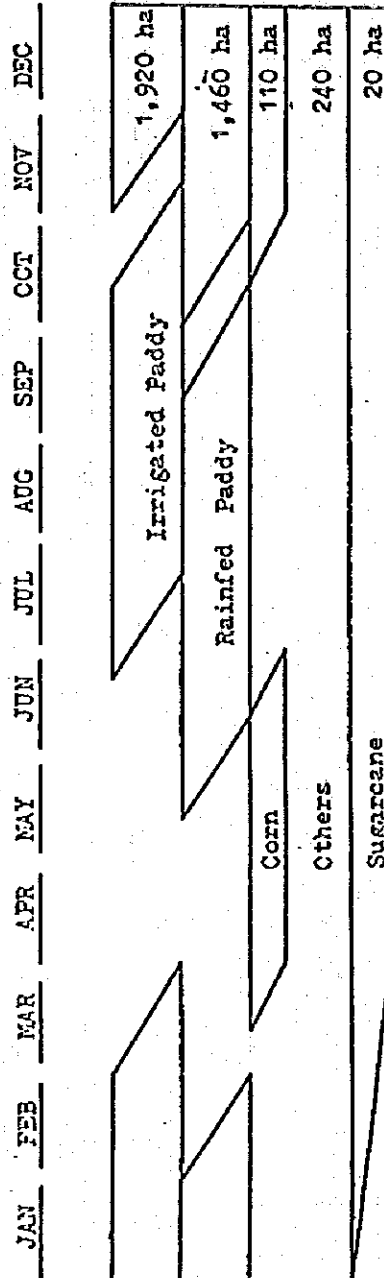
Fig. 6.2-2 Land Suitability Map of
Mambusao Area

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Panitan-Panay Area



Mambusao Area



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Fig.6.2-3 Present Cropping Pattern

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I. Mambusao Area (Cropping Intensity: 2.0)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dry Season Paddy (100 %)					Wet Season Paddy (100 %)						
Drainage					Drainage						
Harvesting					Harvesting						
					Land Preparation Transplanting						
					Land Preparation Transplanting						

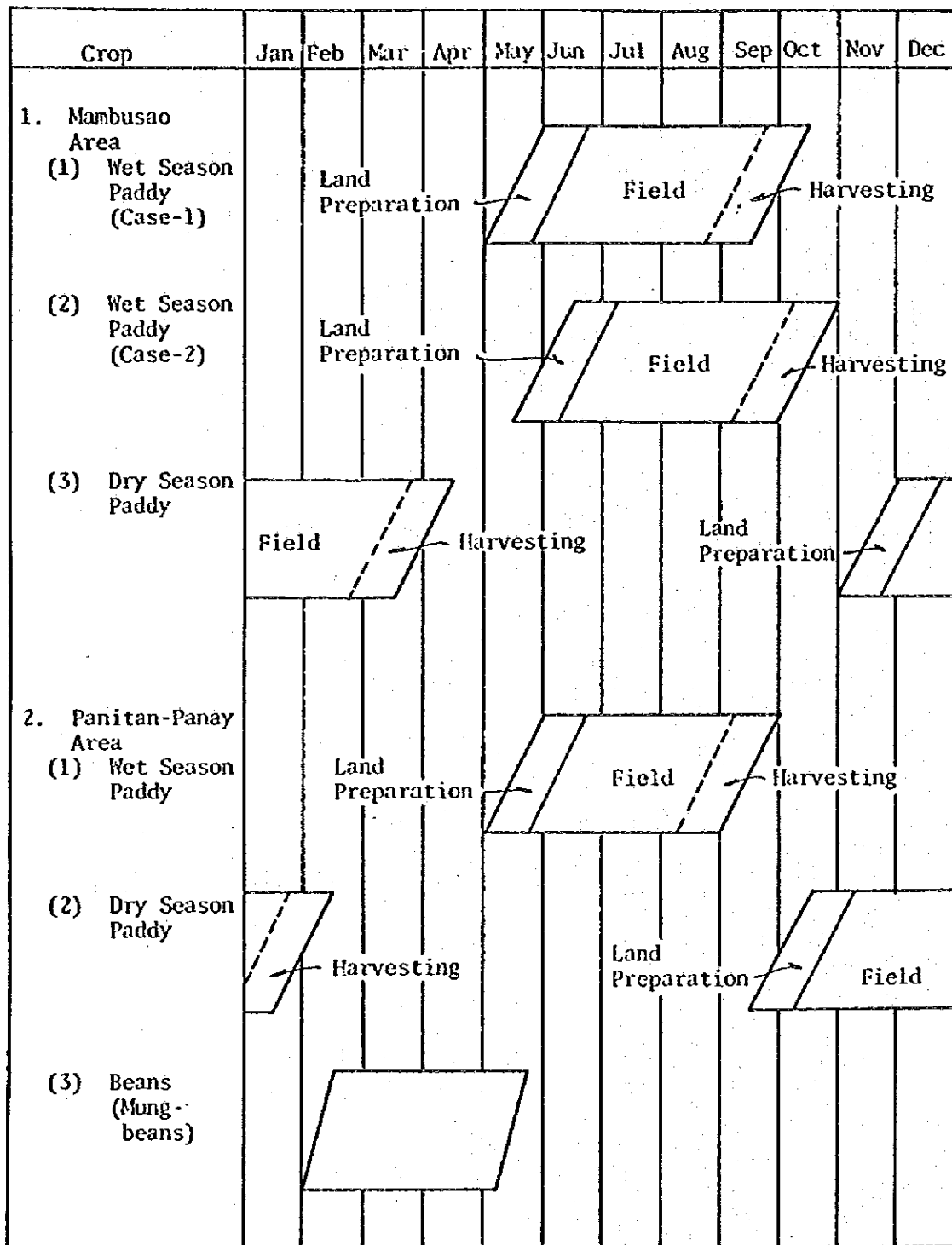
II. Panitan - Panay Area (Cropping Intensity: 2.5)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
Drainage	Harvesting	Beans (50%)			Land Preparation Transplanting	Wet Season Paddy (100 %)		Drainage	Harvesting	Land Preparation Transplanting	Dry Season Paddy (100 %)				
					Transplanting										
							Drainage		Harvesting						
									Land Preparation						
									Transplanting						

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PANAY RIVER BASIN-WIDE FLOOD CONTROL STUDY

Fig.6.3-1 Proposed Cropping Pattern

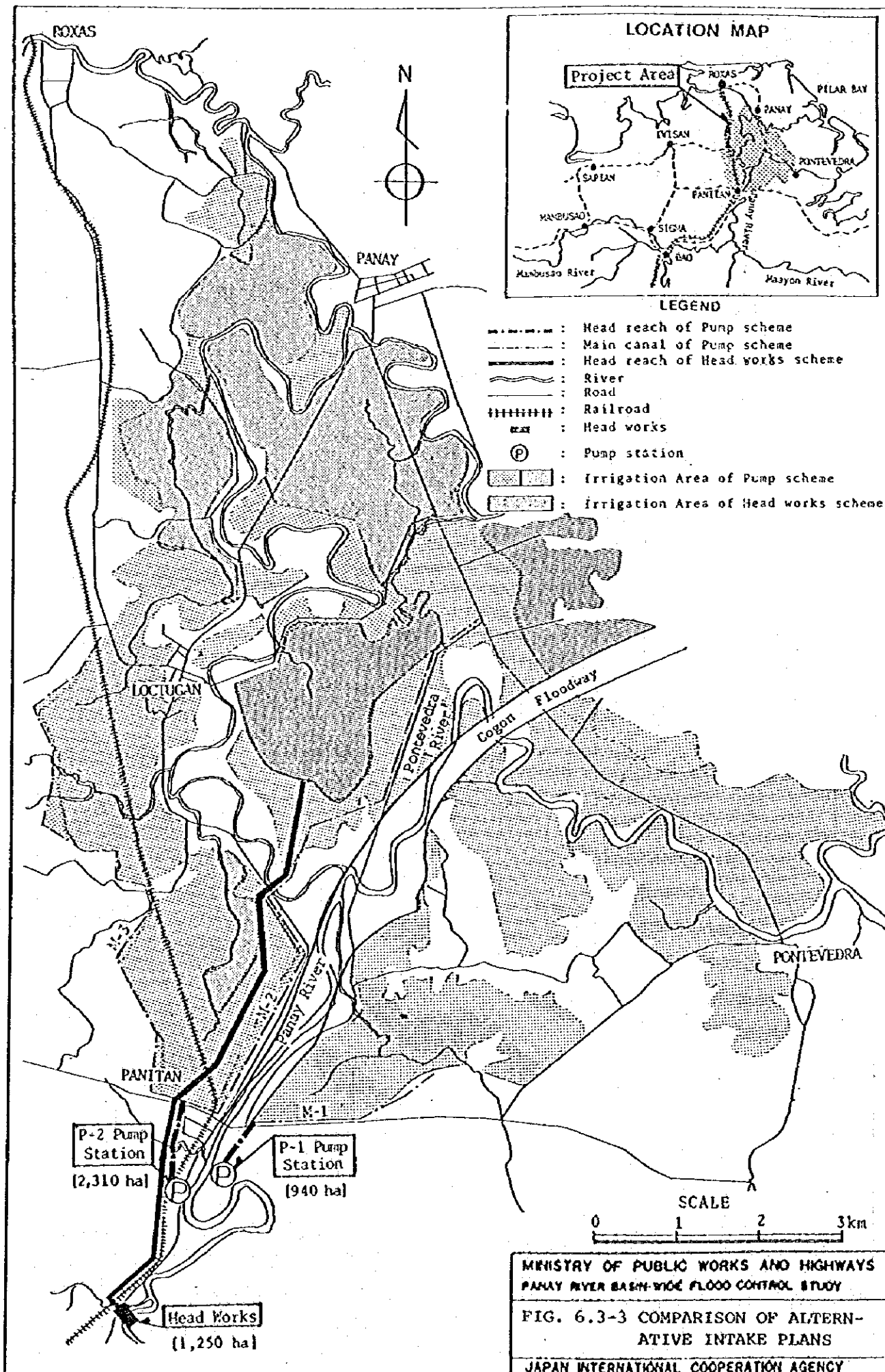
JAPAN INTERNATIONAL COOPERATION AGENCY

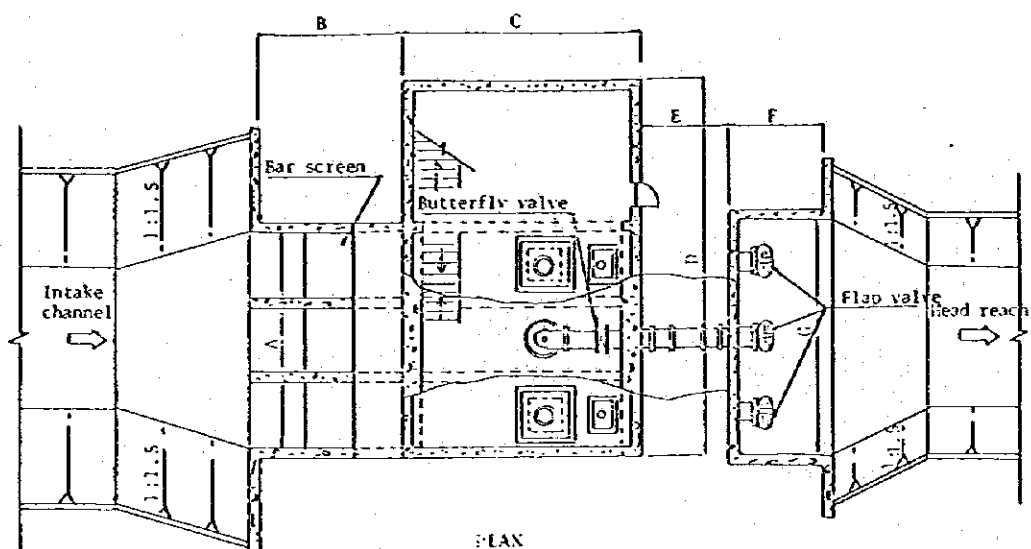


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Fig.6.3-2 Cropping Calendar

JAPAN INTERNATIONAL COOPERATION AGENCY

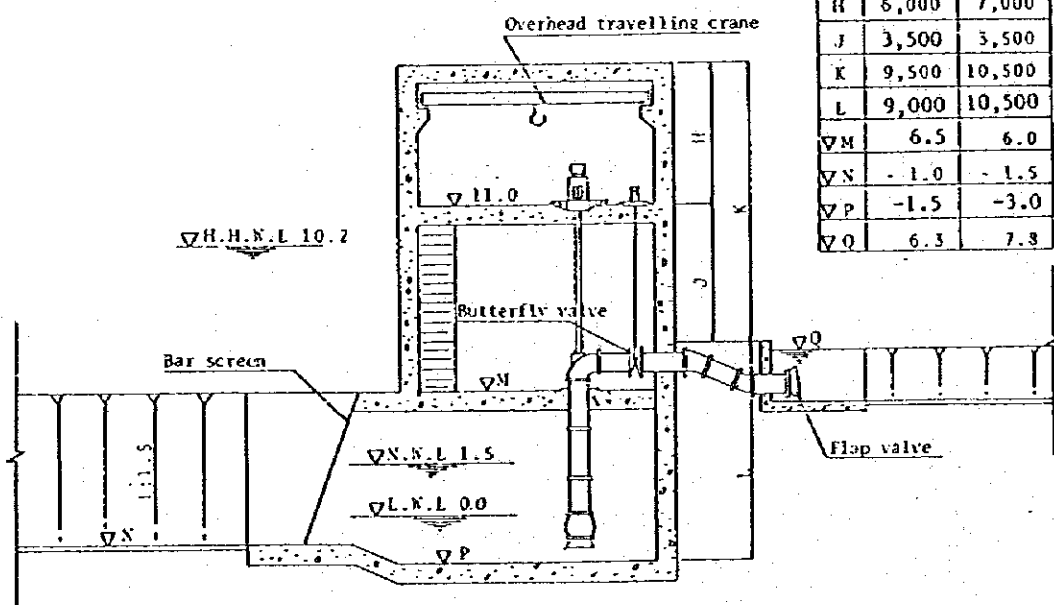




PLAN

DIMENSION TABLE

	P-1	P-2
NOS OF PUMP	3	2
A	4,600	6,500
B	5,000	6,000
C	6,000	7,000
D	3,000	12,000
E	5,000	5,000
F	2,000	3,500
G	4,600	6,500
H	6,000	7,000
J	3,500	3,500
K	9,500	10,500
L	9,000	10,500
∇M	6.5	6.0
∇N	-1.0	-1.5
∇P	-1.5	-3.0
∇Q	6.3	7.3

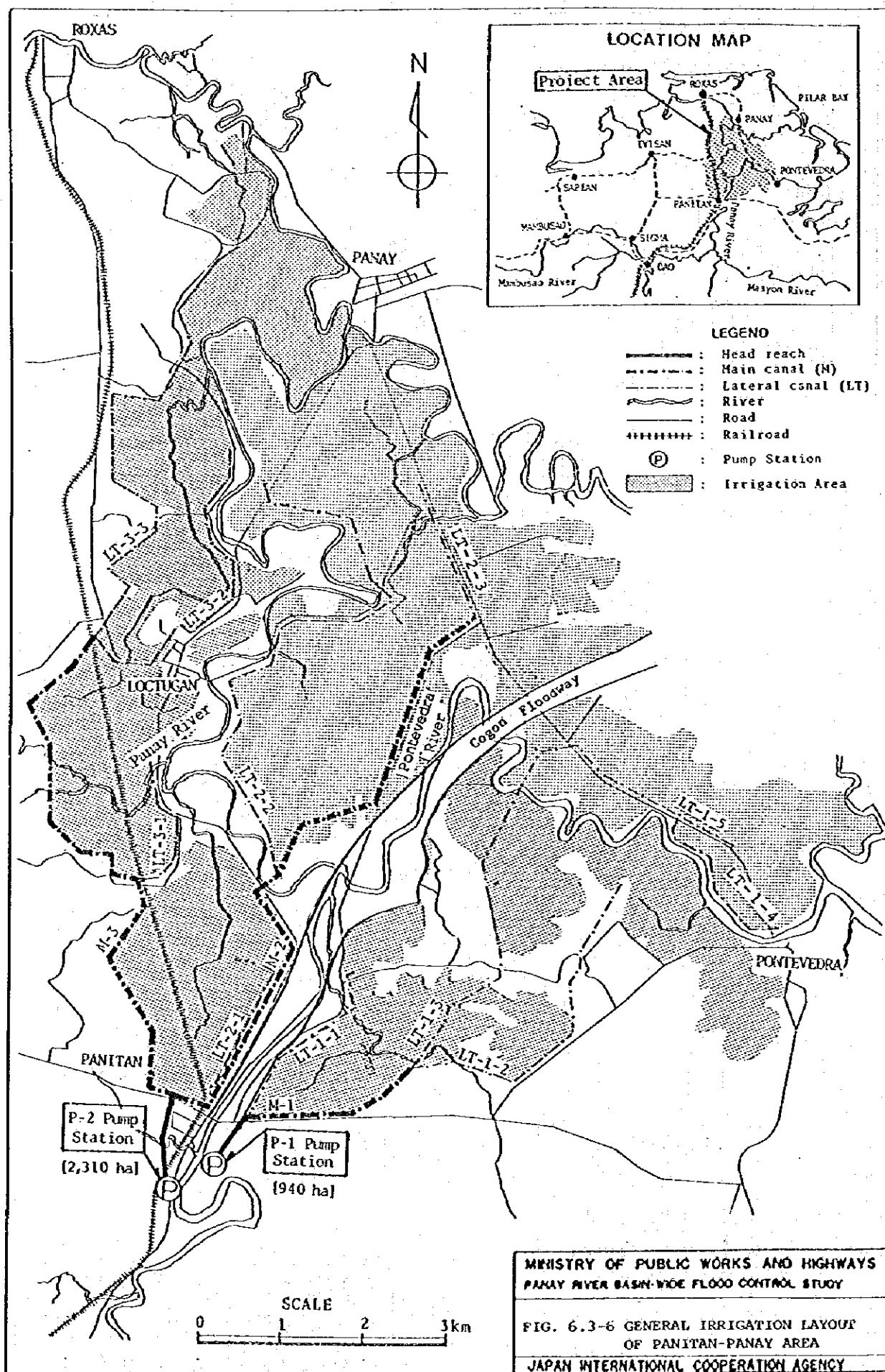


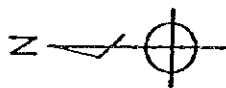
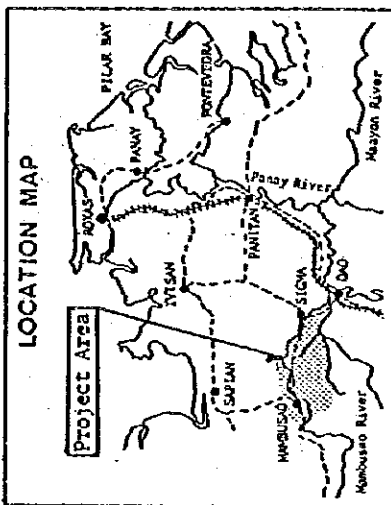
PROFILE

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PANAY RIVER BASIN-WIDE FLOOD CONTROL STUDY

FIG. 6.3-4 PUMP STATION

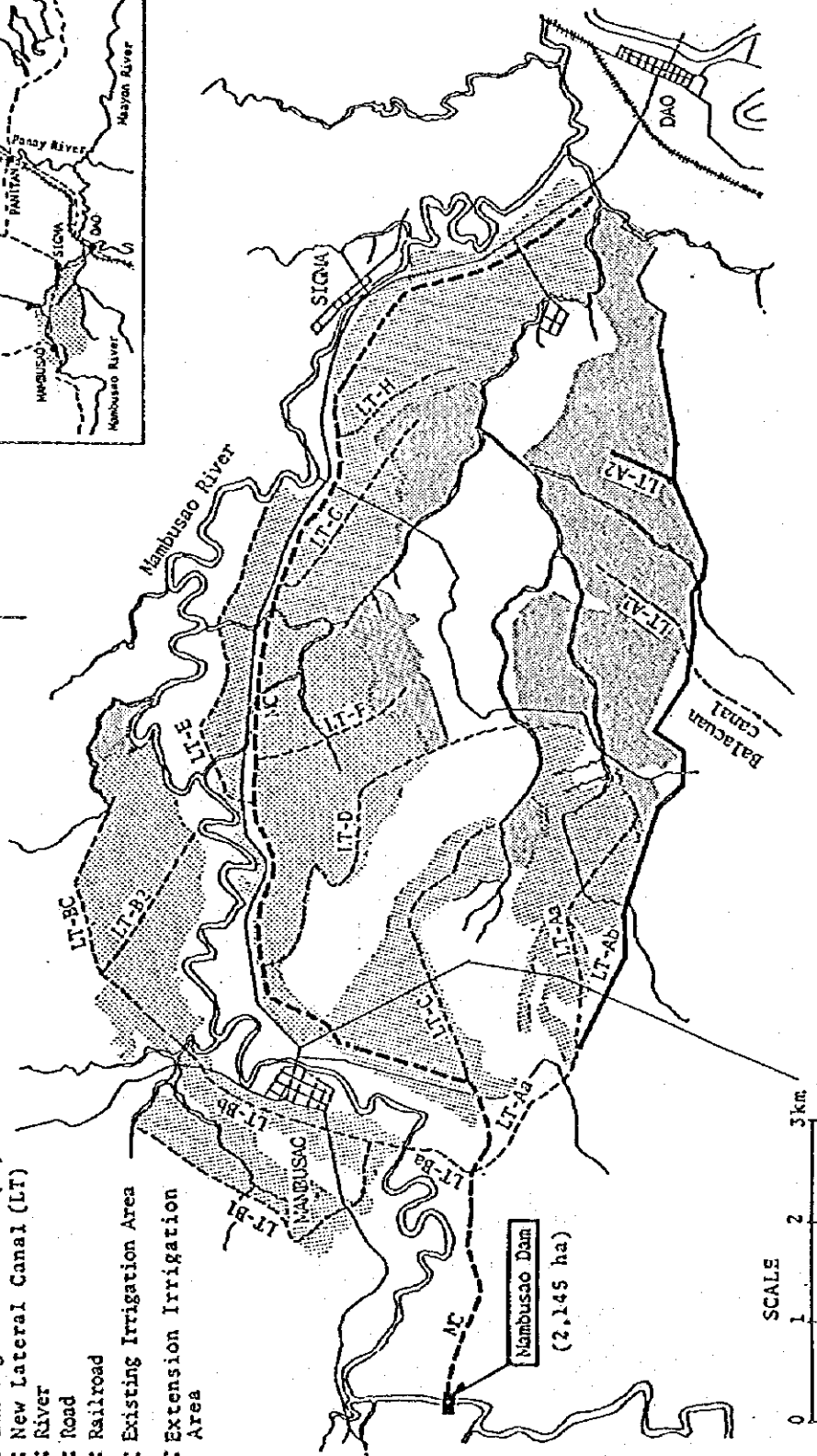
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LEGEND

- Existing Main Canal (MC)
- - - Existing Lateral Canal (LT)
- New Lateral Canal (LT)
- ~ River
- == Road
- ++++ Railroad
- ▨ Existing Irrigation Area
- ▨ Extension Irrigation Area



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PANAY RIVER BASIN-WIDE FLOOD CONTROL STUDY

Fig 6.3-7 General Irrigation Layout
of Mambusao Area

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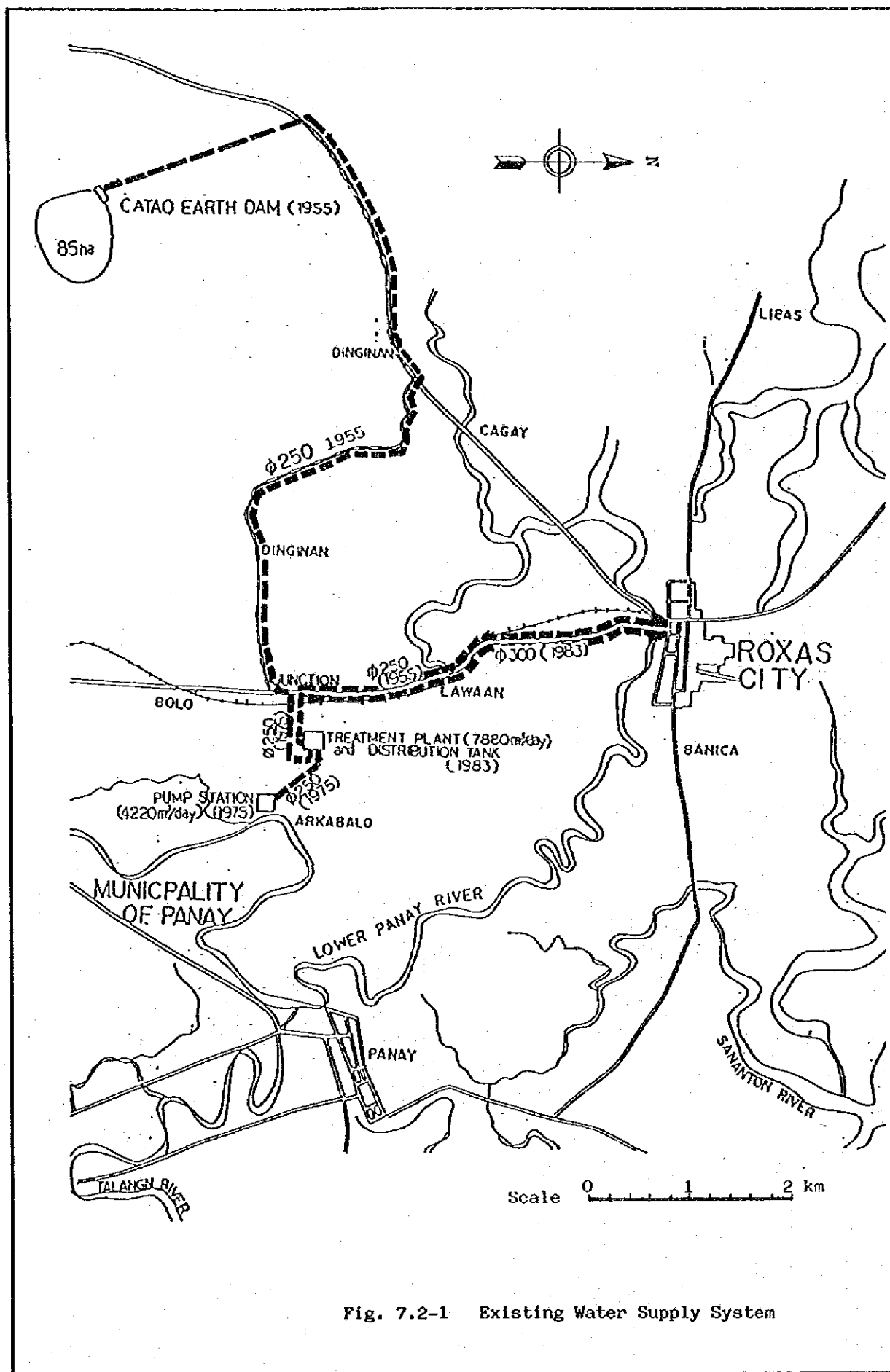
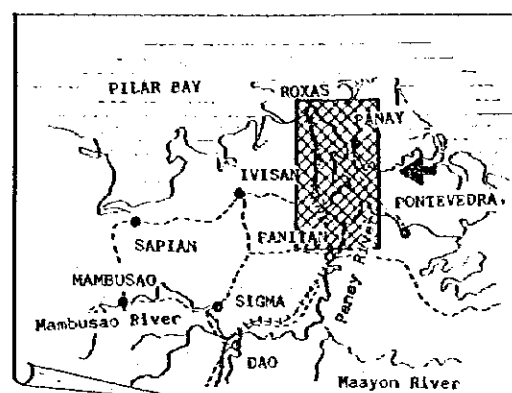


Fig. 7.2-1 Existing Water Supply System



Key Map

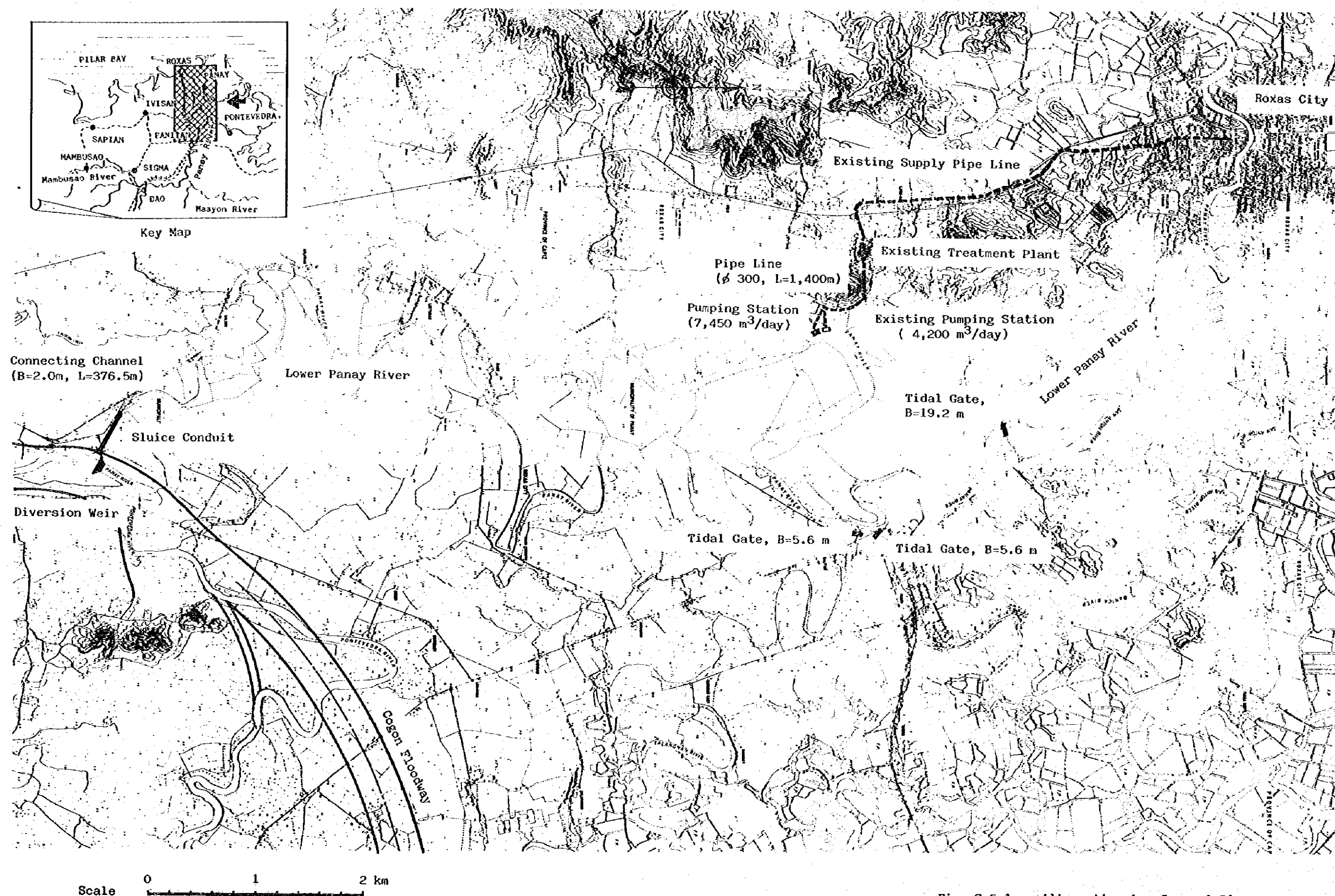
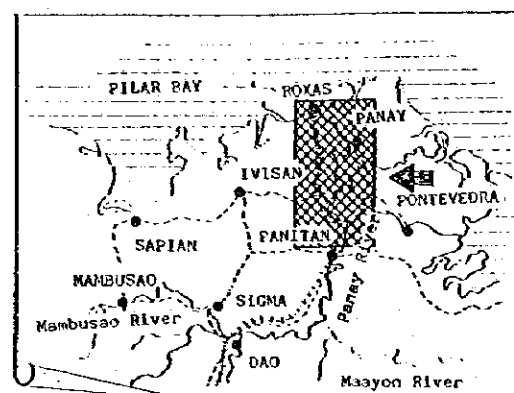
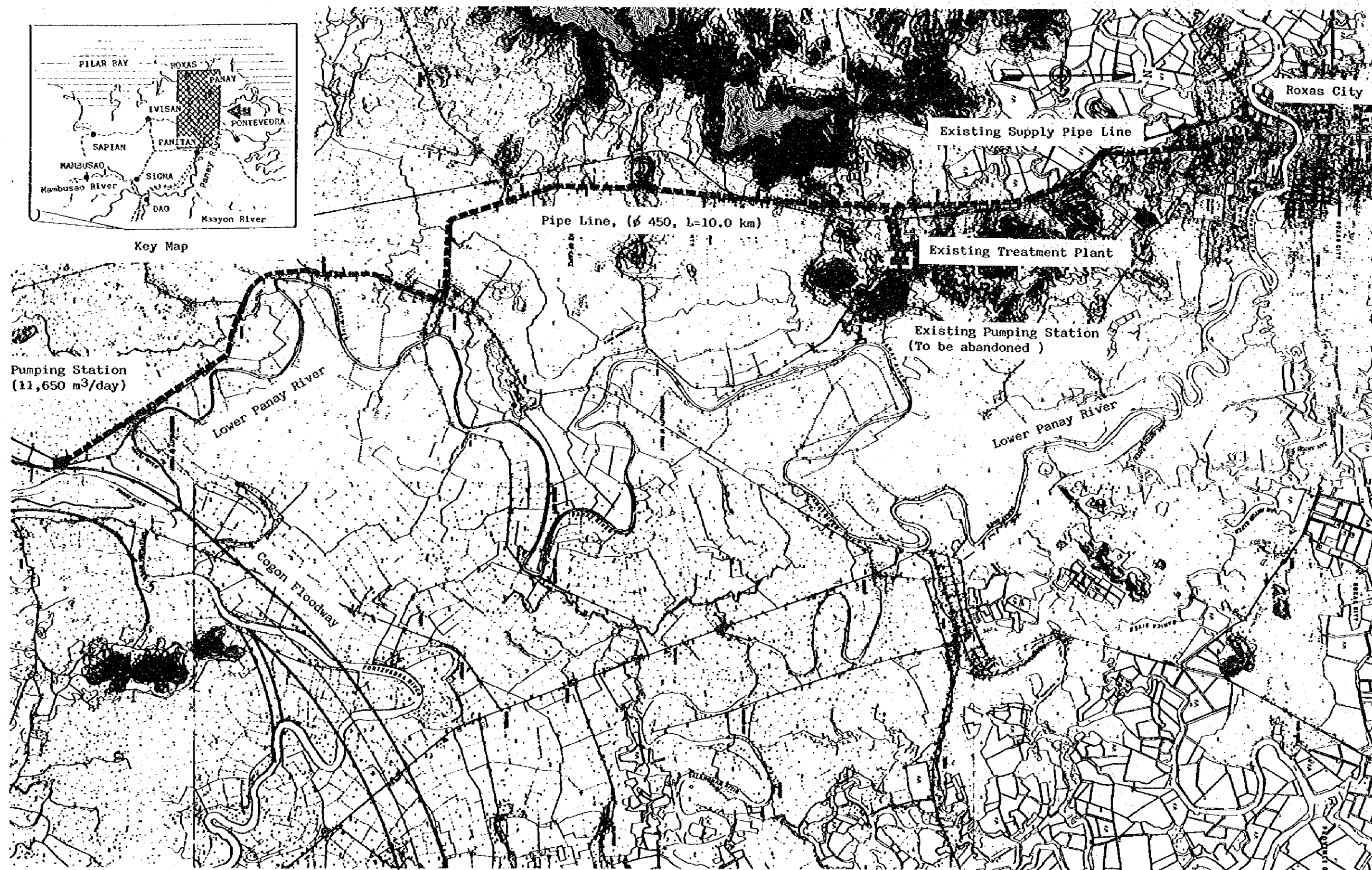


Fig. 7.5-1 Alternative 1 : General Plan

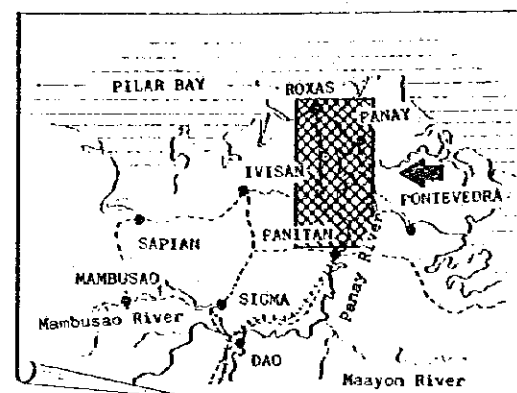


Key Map



Scale 0 1 2 km

Fig. 7.5-2 Alternative 2 : General Plan



Key Map

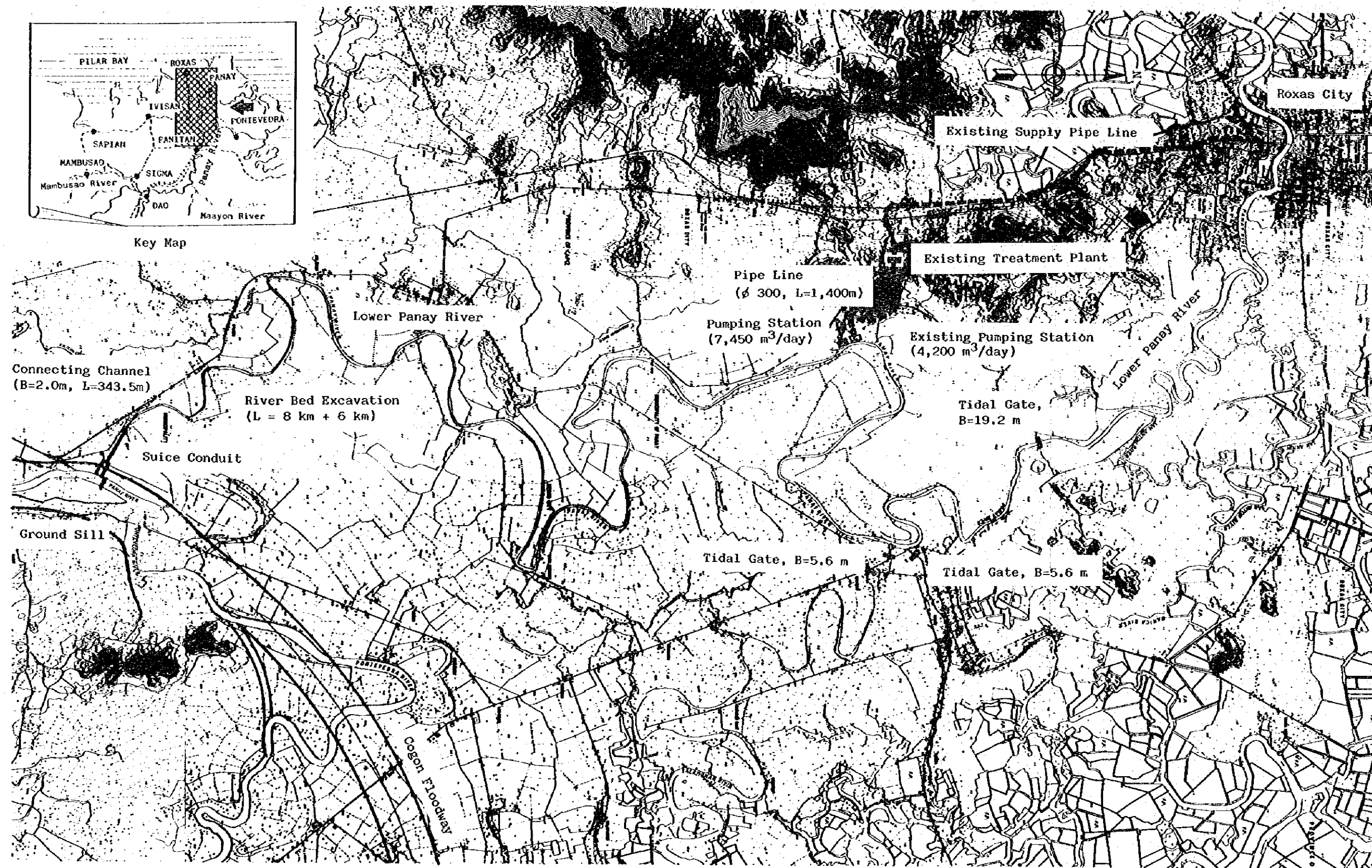


Fig. 7.5-3 Alternative 3 : General Plan

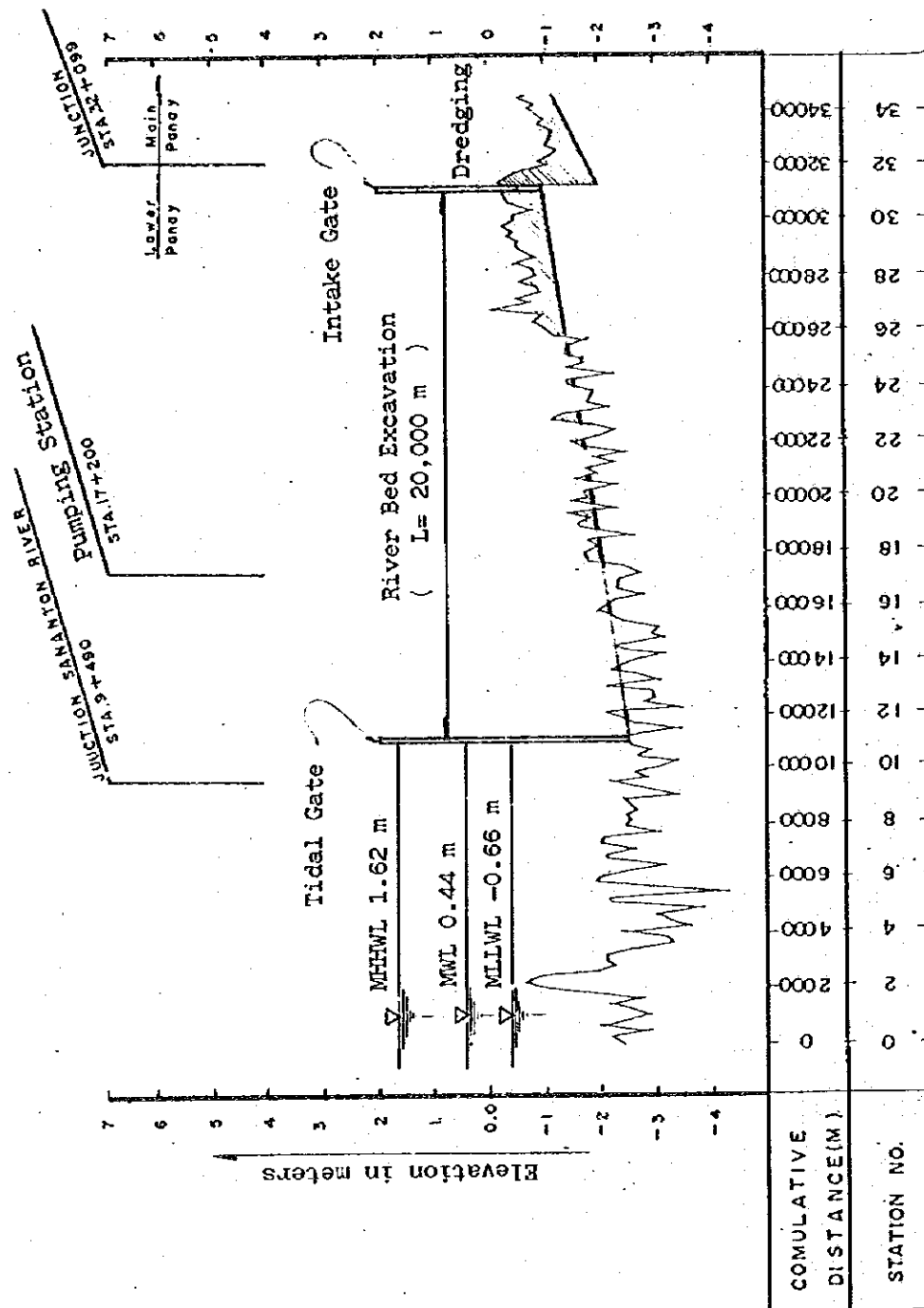
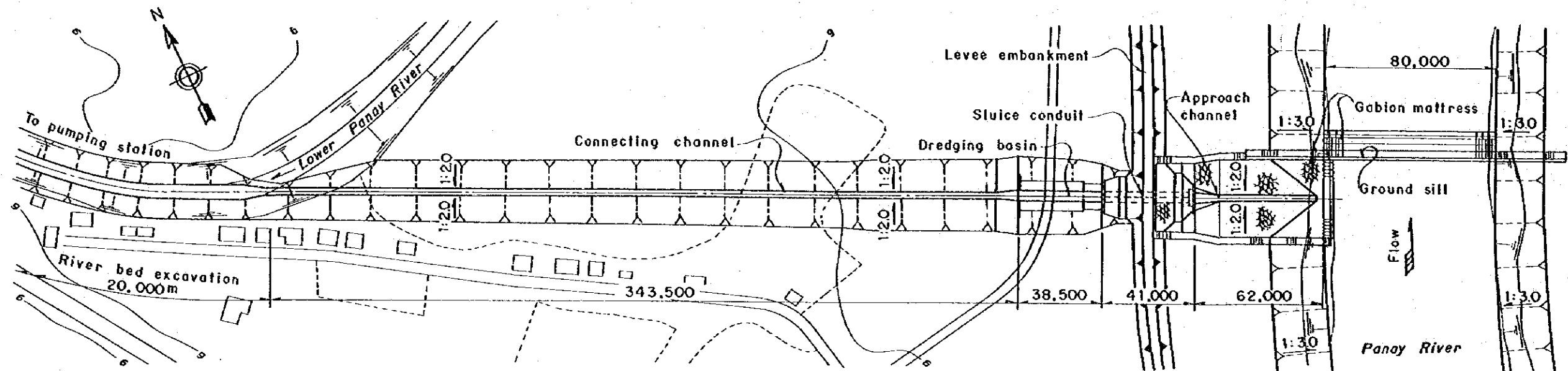
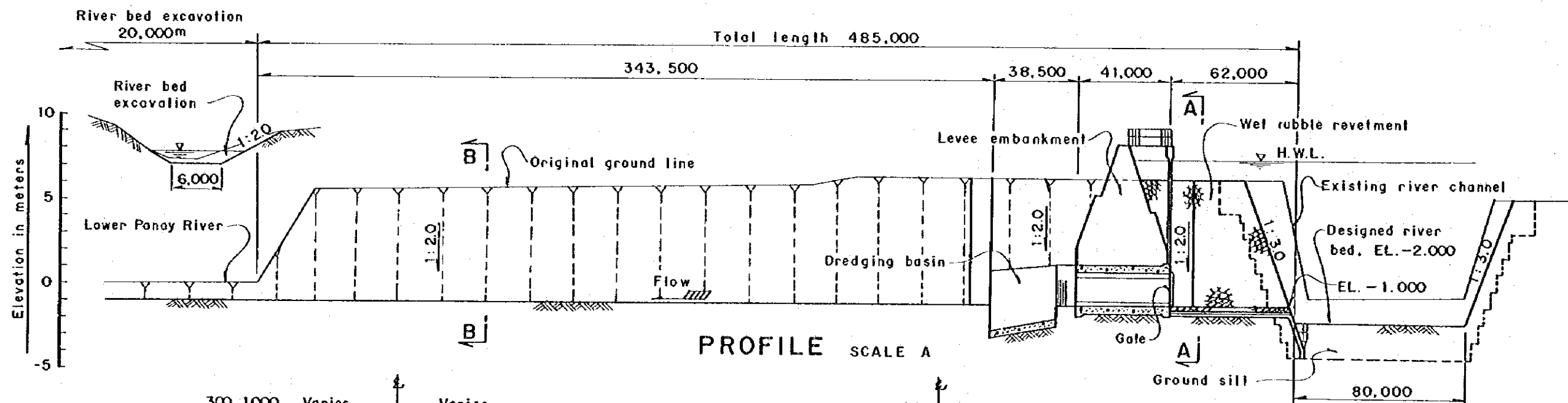


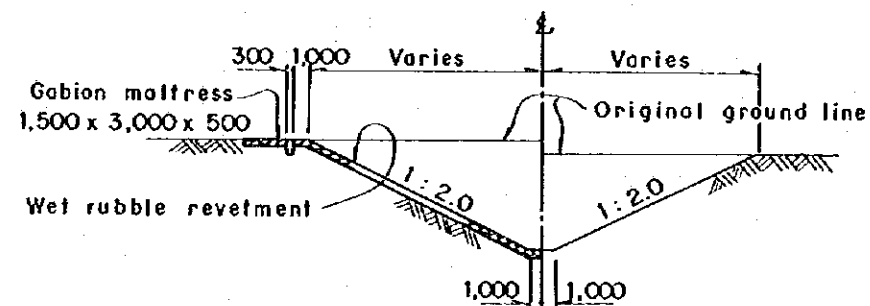
Fig. 7.5-4 Alternative 3 : Profile of Lower Panay River



PLAN SCALE A



PROFILE SCALE A

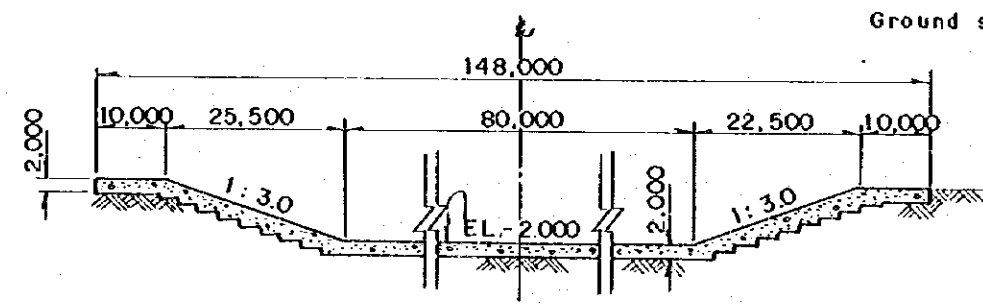


SECTION A-A SECTION B-B

SCALE A 0 50 100m

SCALE B 0 50m

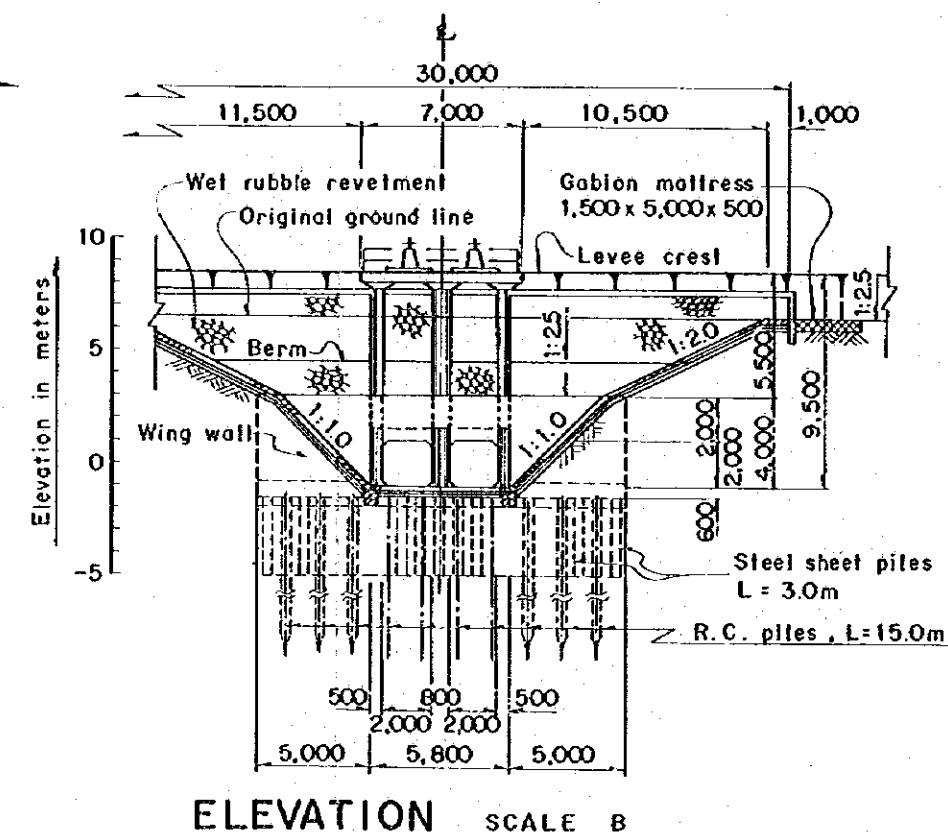
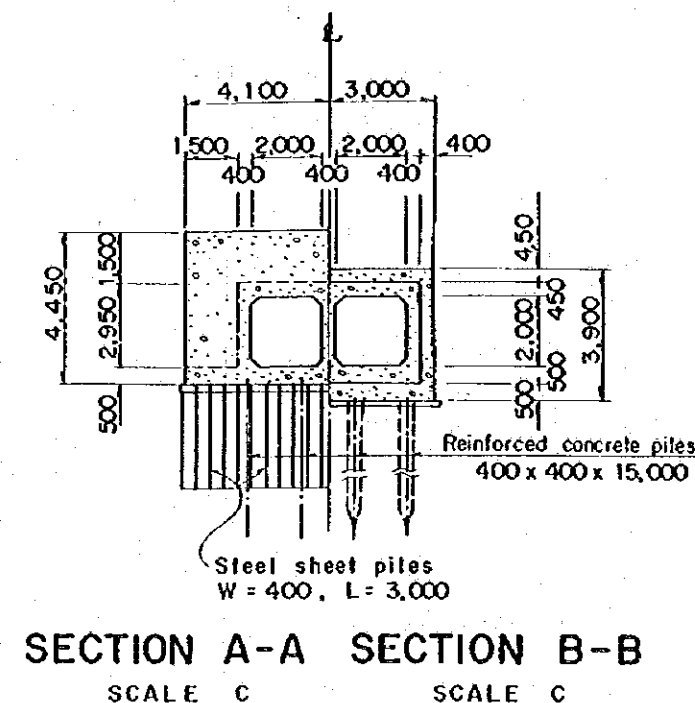
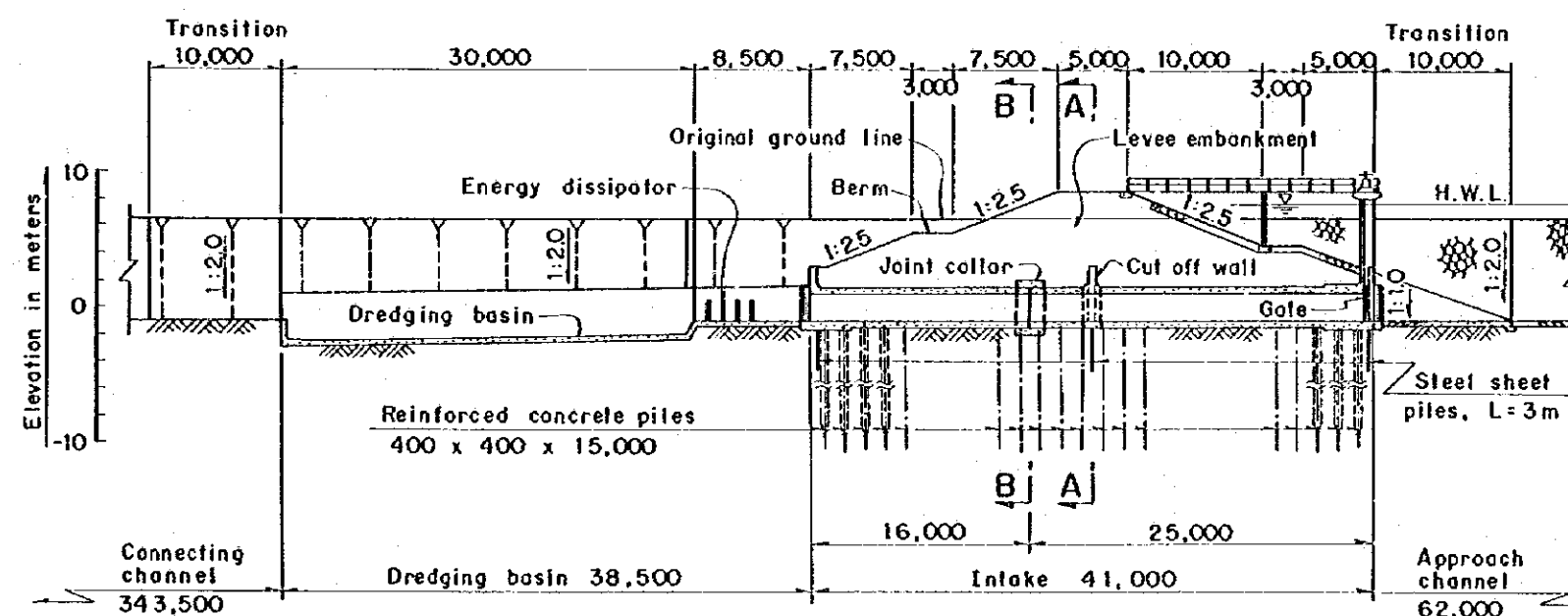
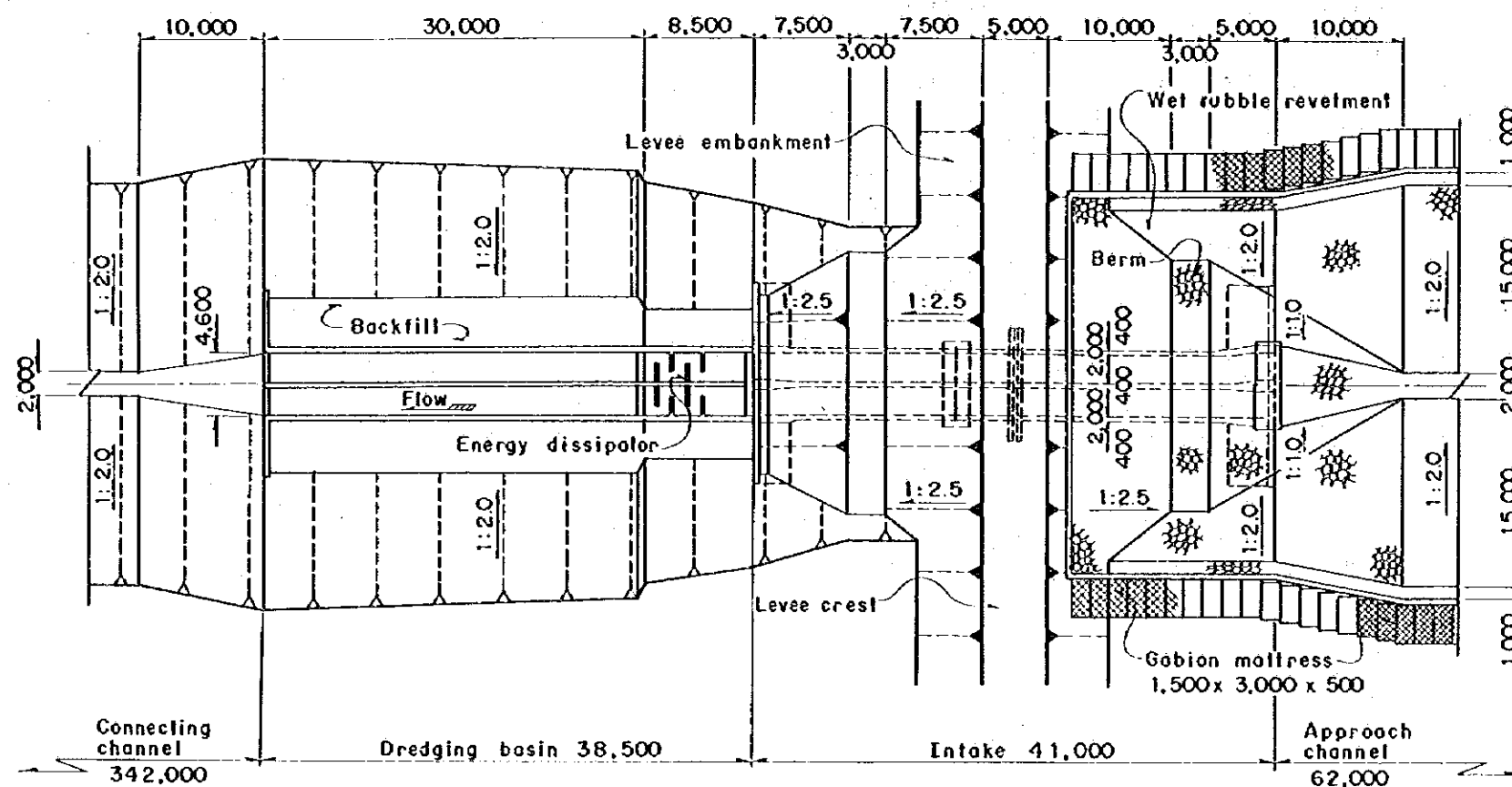
SCALE C 0 10 20m



SECTION OF GROUND SILL

SCALE B

Fig. 7.5-5 Alternative 3 : General Layout of Intake and Connecting Channel



SCALE A 0 10 20m
SCALE B 0 5 10 15m
SCALE C 0 5 10m

Fig.7.5-6 Alternative 3 : Sluice Conduit Details