

Remark: Figures in parentheses show the flood discharges under present land use conditions.

**LEGEND**

Flood Discharge (m <sup>3</sup> /s)	Return Period (year)
85 (50)	100-yr
70 (40)	50-yr
55 (35)	25-yr
45 (24)	10-yr
35 (20)	5-yr
26 (14)	2-yr
22 (12)	1.05-yr

△ Location of conceivable Retarding Basin site  
 --- Major Road

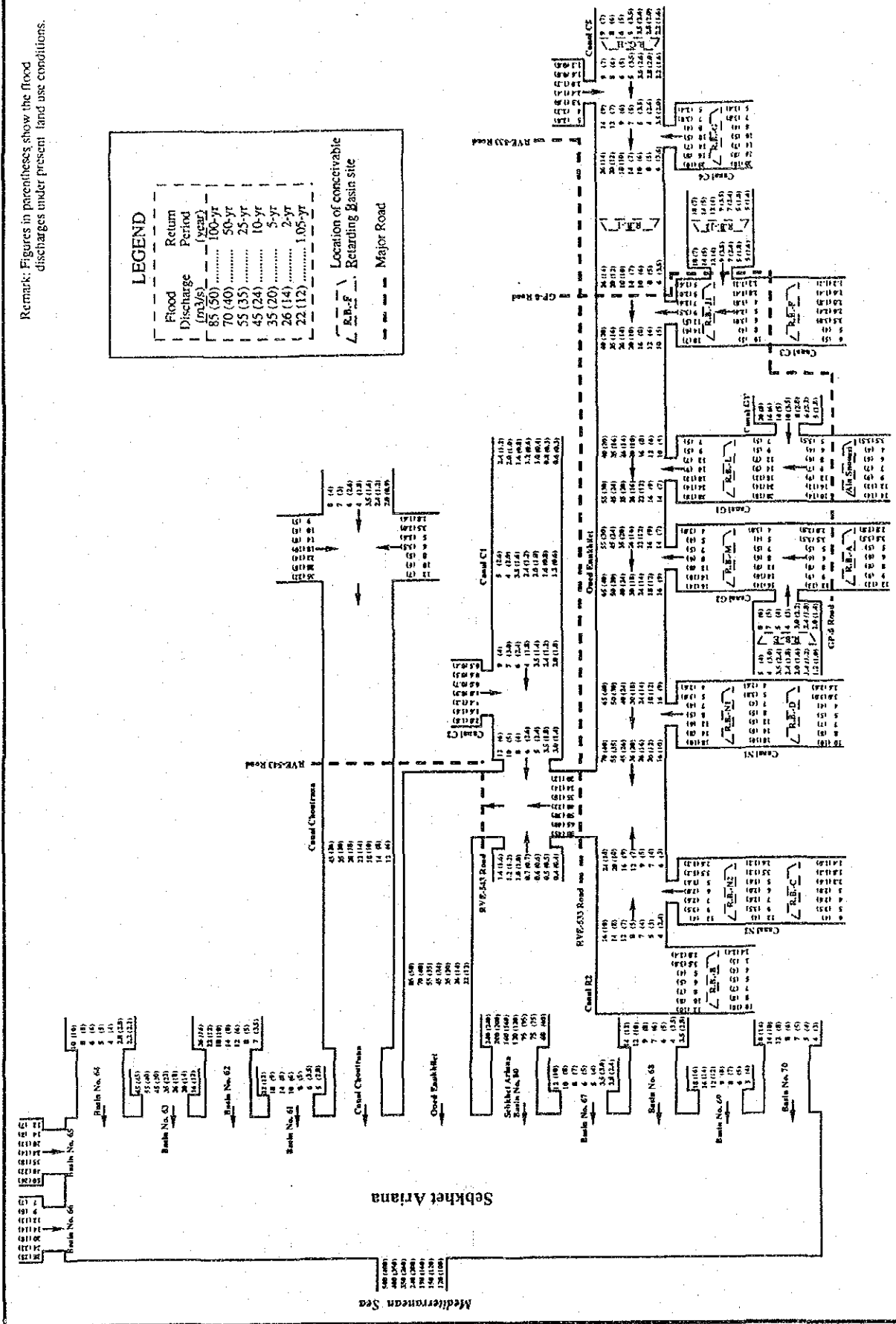


Fig. 7.3 Flood Runoff Distribution of Sebket Ariana Basin Without Flood Retarding Facilities

Remark: Figures in parentheses show the flood discharges under present land use conditions.

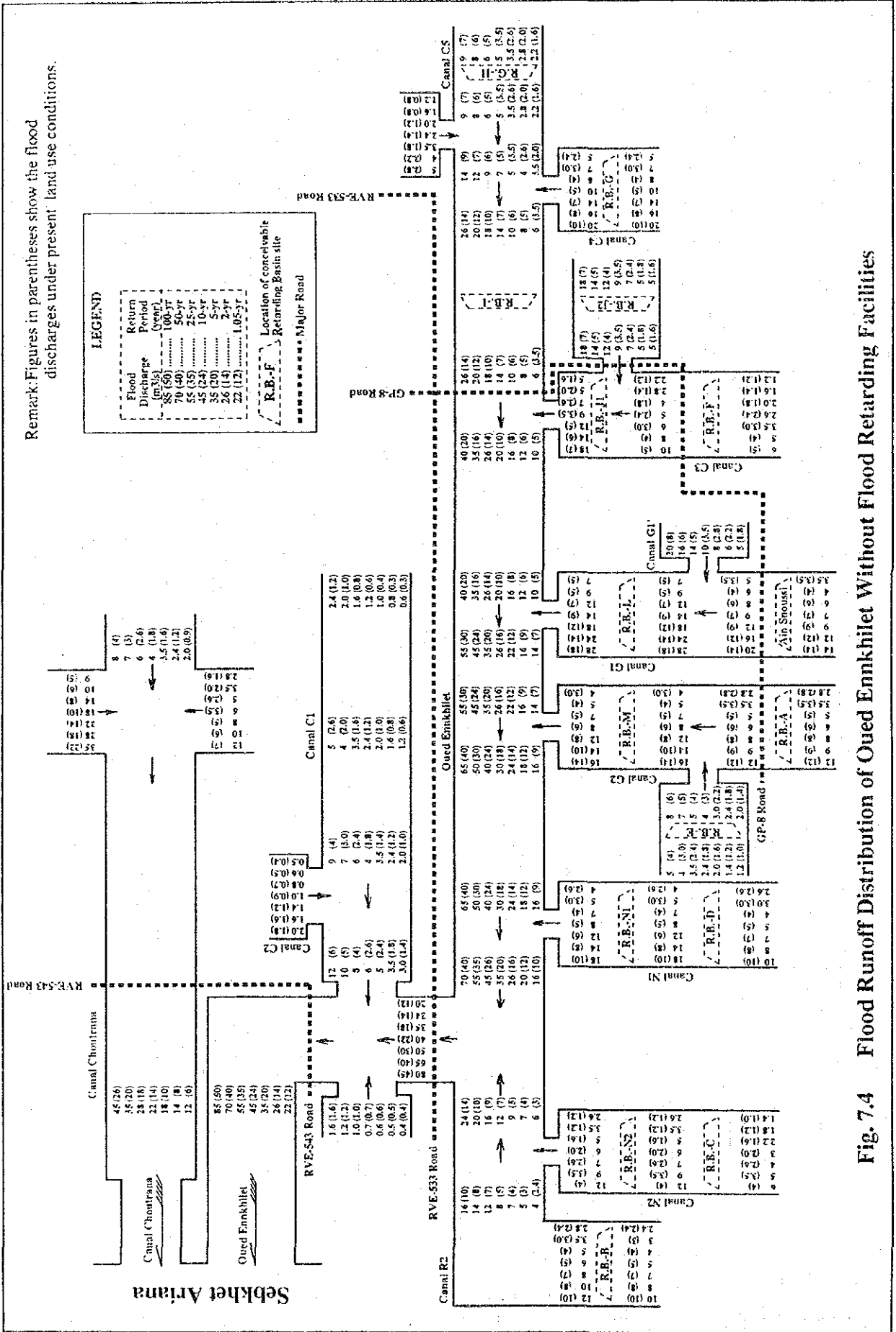


Fig. 7.4 Flood Runoff Distribution of Oued Enkhilet Without Flood Retarding Facilities

Remark: Figures in parentheses show the flood discharges under present land use conditions.

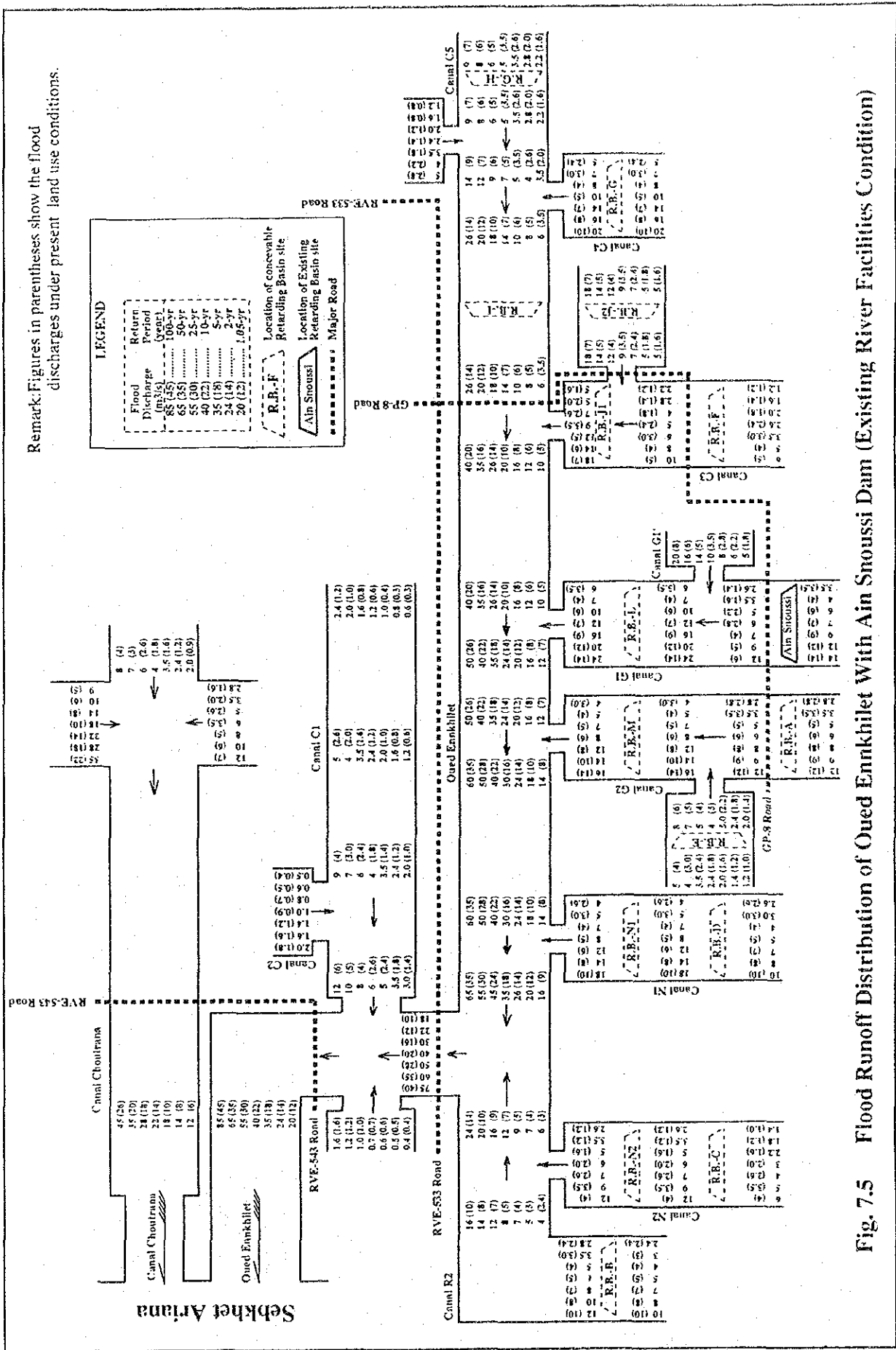


Fig. 7.5 Flood Runoff Distribution of Oued Enkhleth with Ain Snoussi Dam (Existing River Facilities Condition)

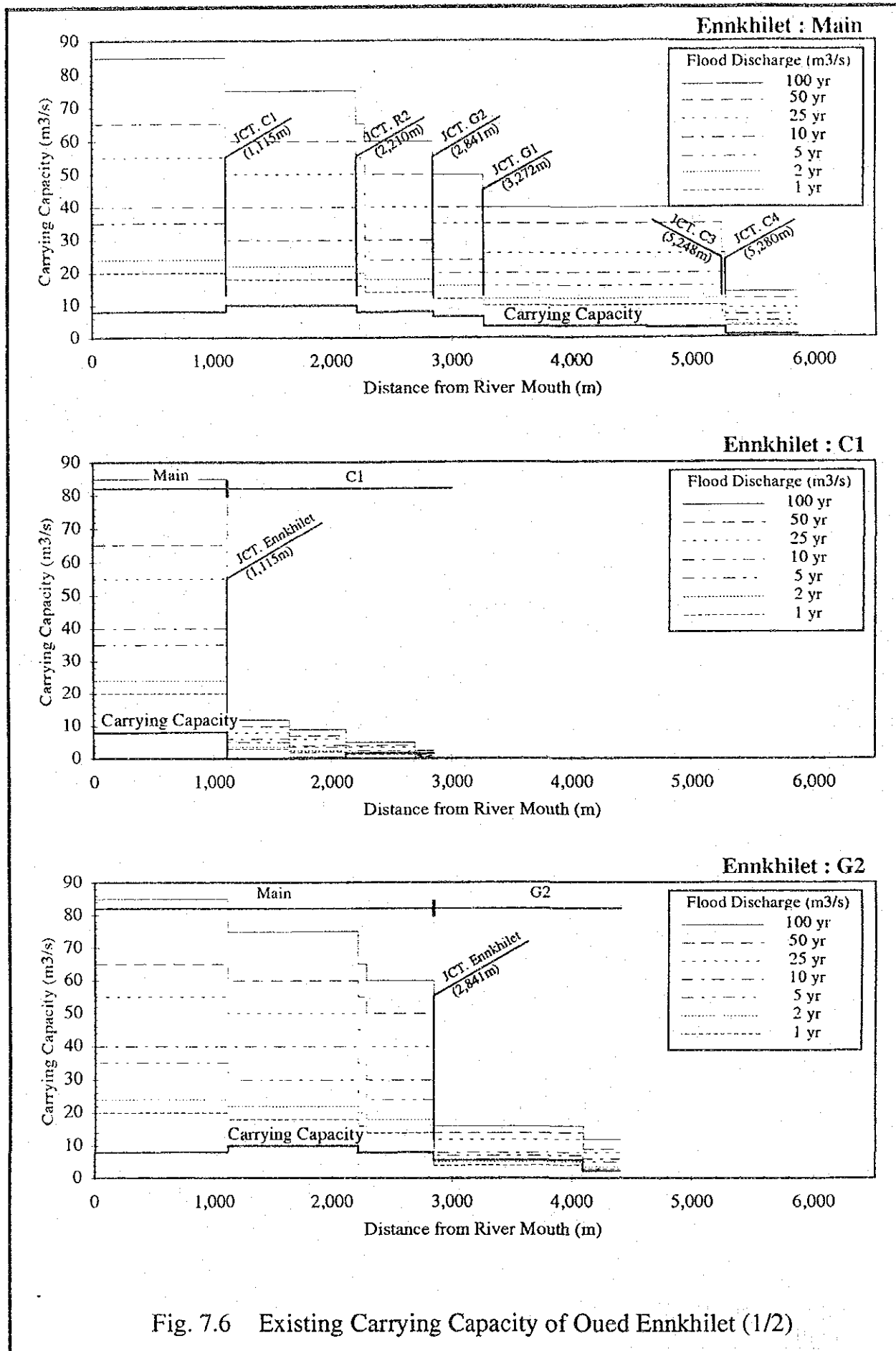


Fig. 7.6 Existing Carrying Capacity of Oued Enkhilet (1/2)

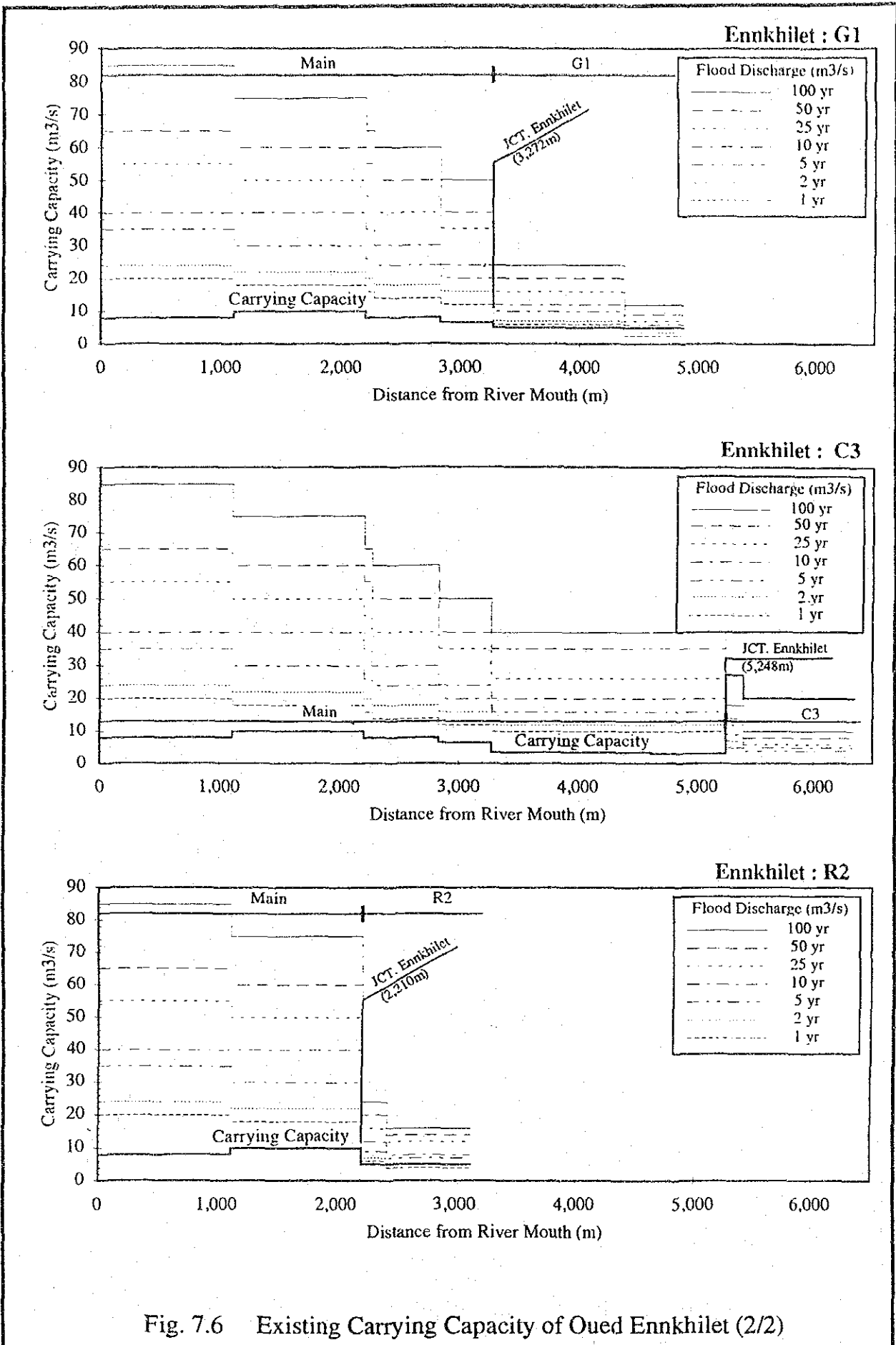


Fig. 7.6 Existing Carrying Capacity of Oued Ennkhilet (2/2)

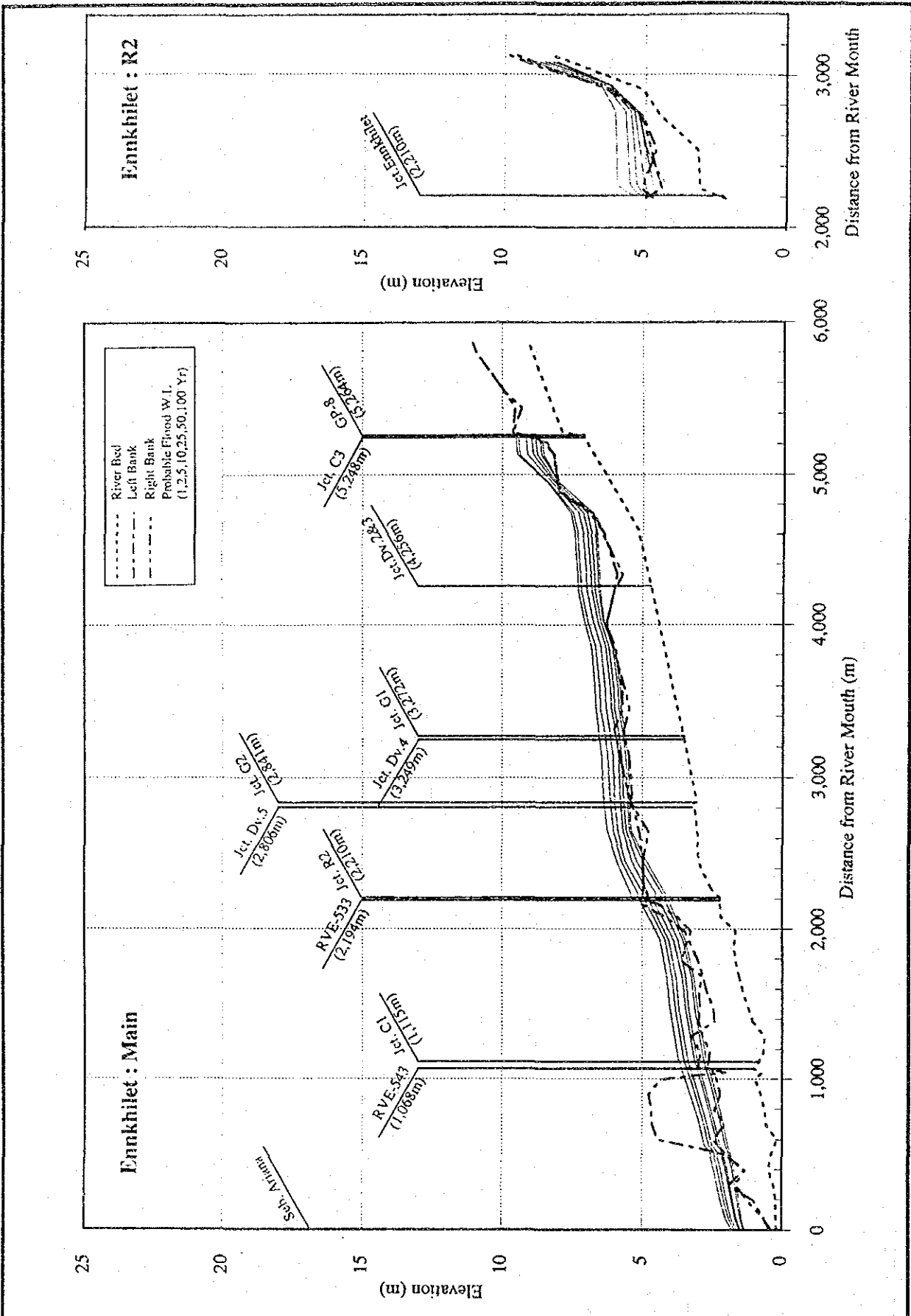


Fig. 7.7 Flood Water Level of Oued Enkhilet under Existing River Facilities (1/2)

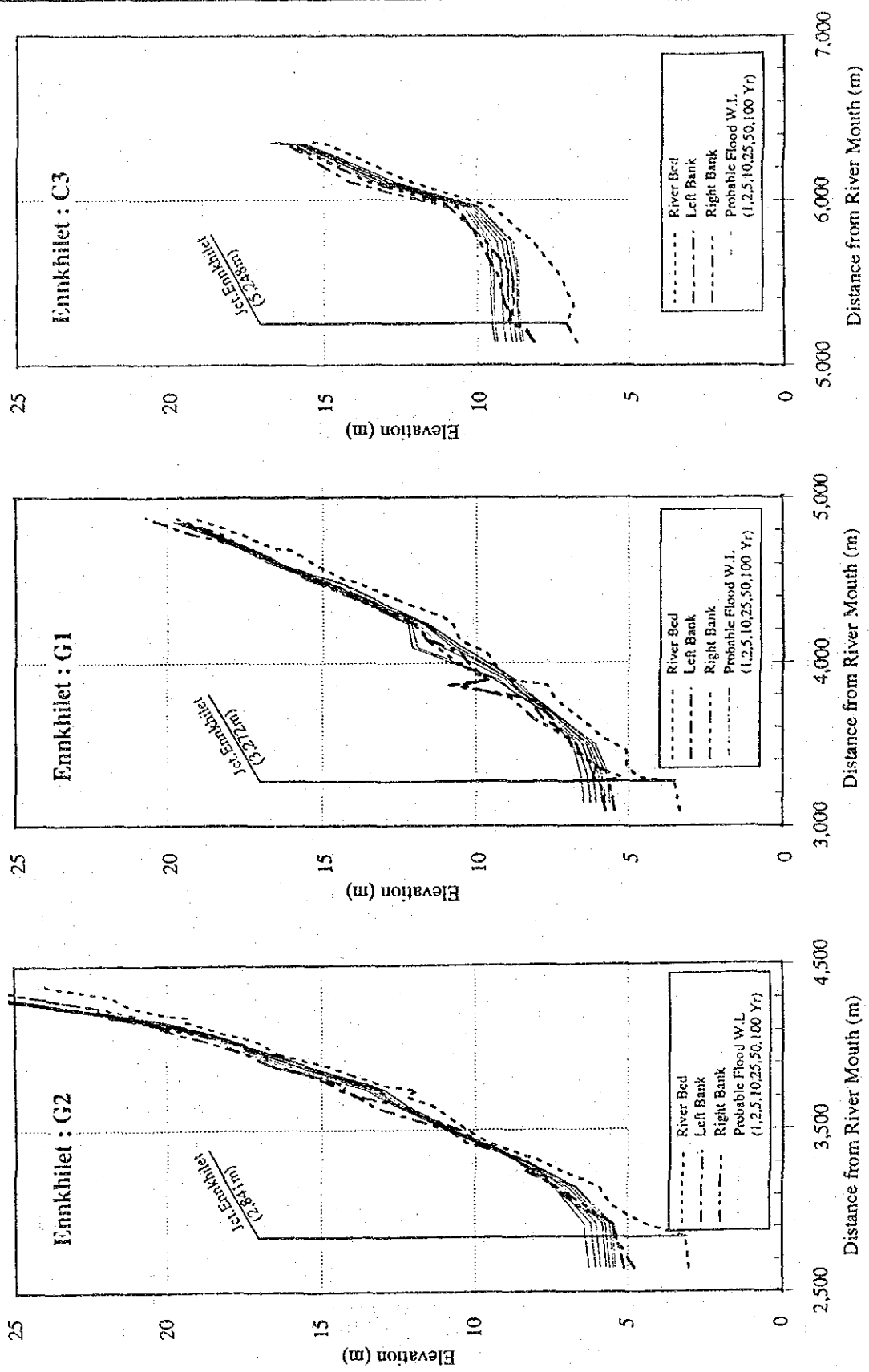
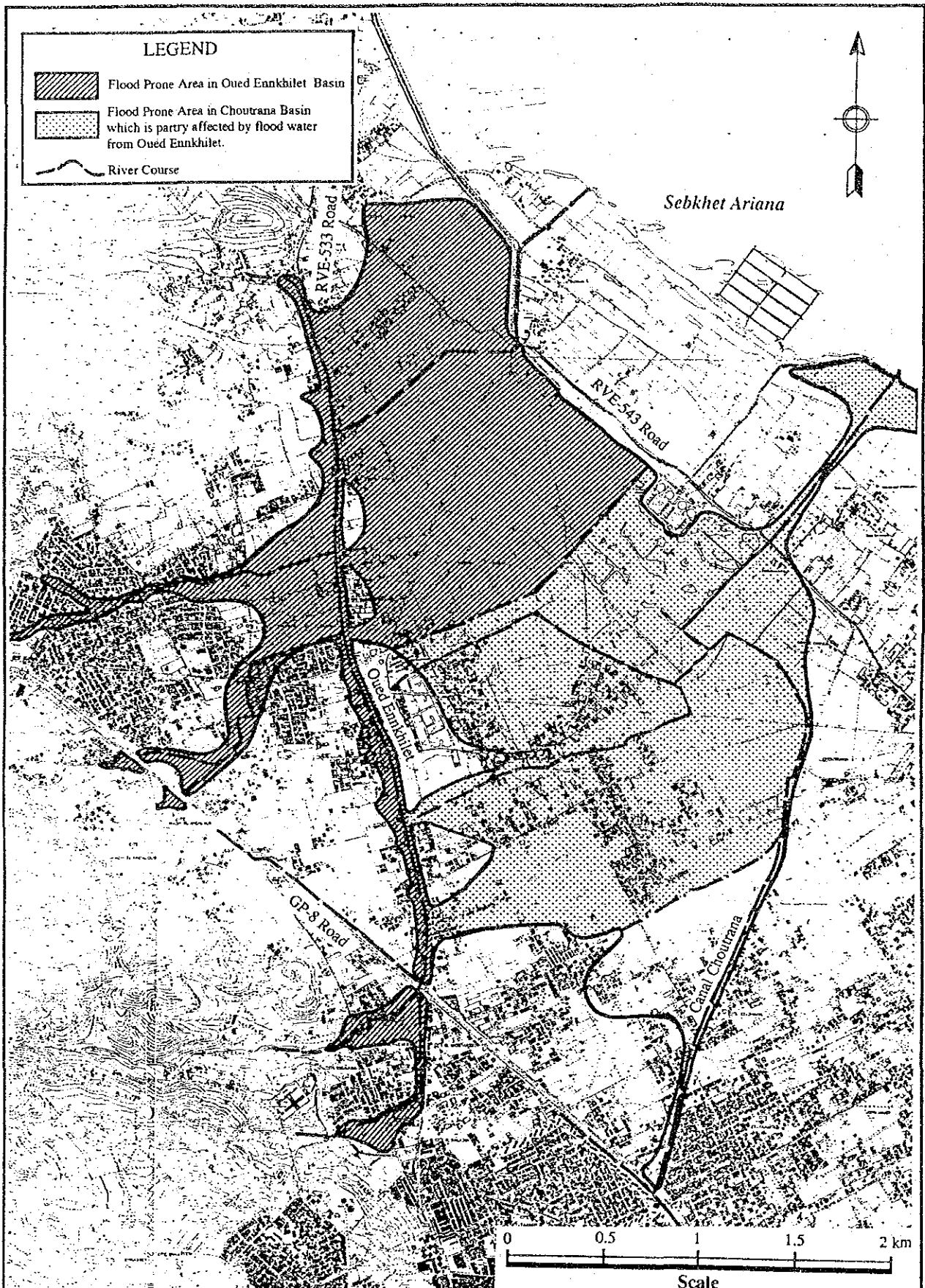
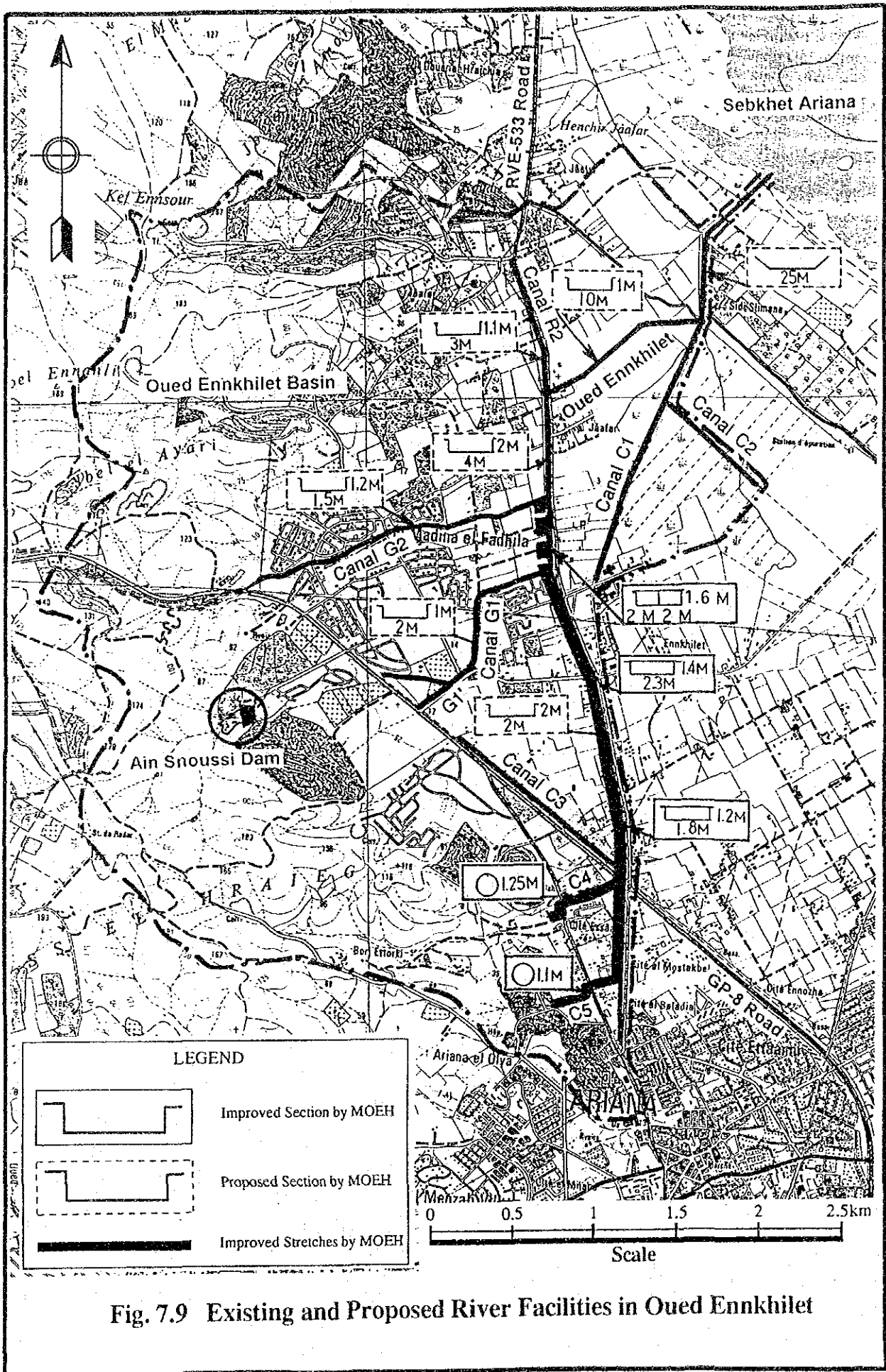


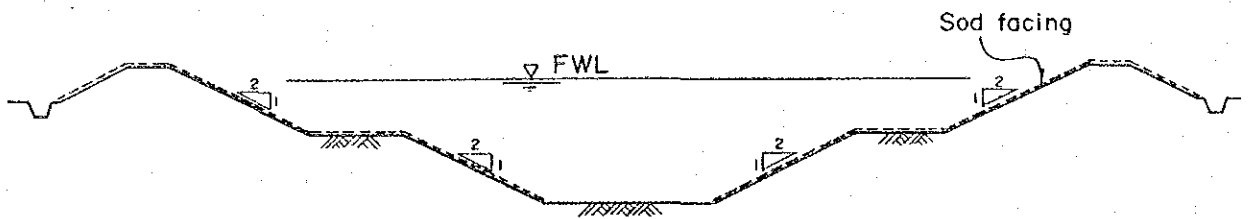
Fig. 7.7 Flood Water Level of Oued Ennkhilet under Existing River Facilities (2/2)



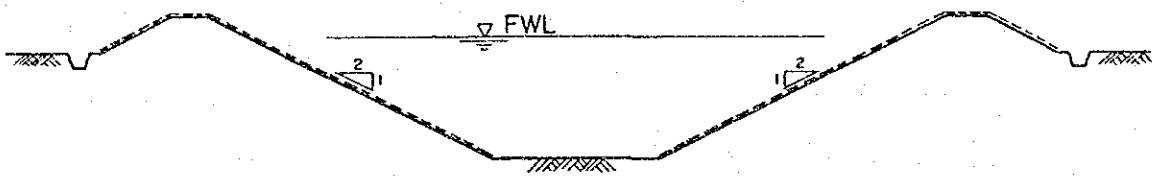


**Fig. 7.8 Assumed Flood Prone Area in Oued Ennkhilet and Choutrana Basin**

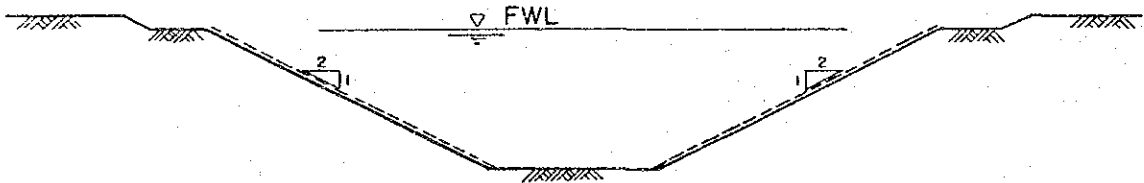




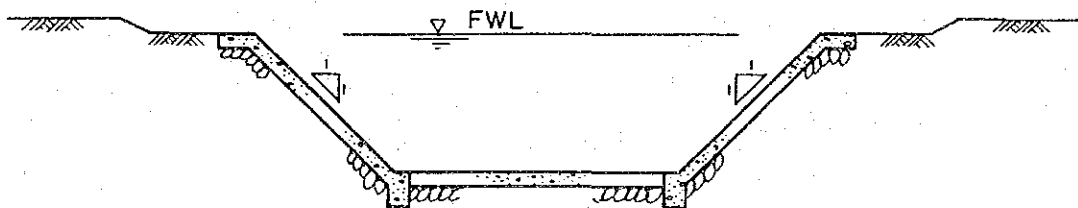
COMPOUND CROSS SECTION



SINGLE CROSS SECTION (1)

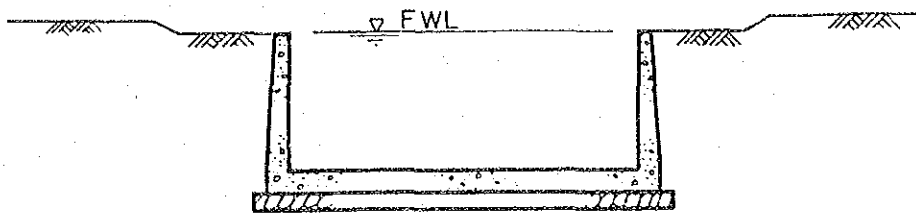


SINGLE CROSS SECTION (2)

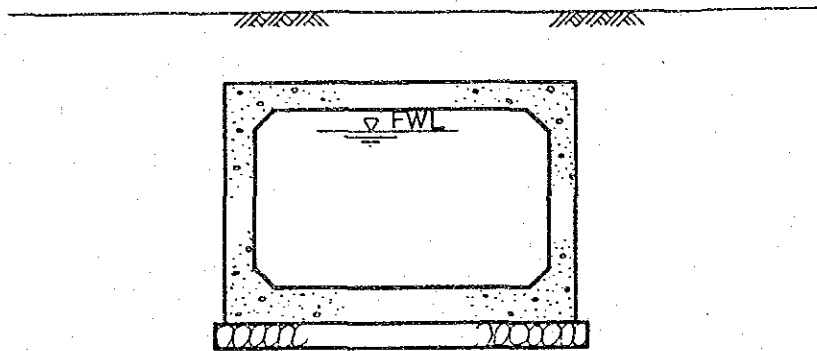


SINGLE CROSS SECTION WITH REVETMENT

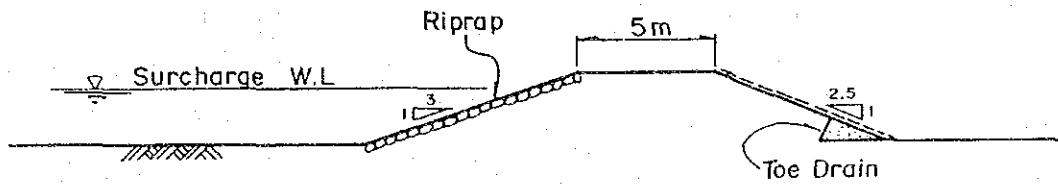
Fig. 8.1 Typical Cross Sections of River Improvement Works (1/2)



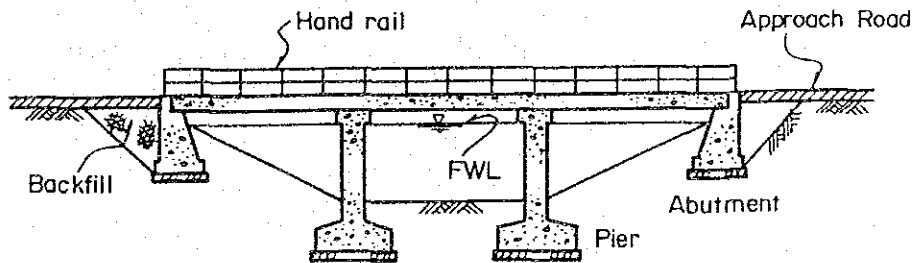
SINGLE CROSS SECTION WITH RETAINING WALL



BOX CULVERT



DAM & RETARDING BASIN



RC SLAB BRIDGE

Fig. 8.1 Typical Cross Sections of River Improvement Works (2/2)

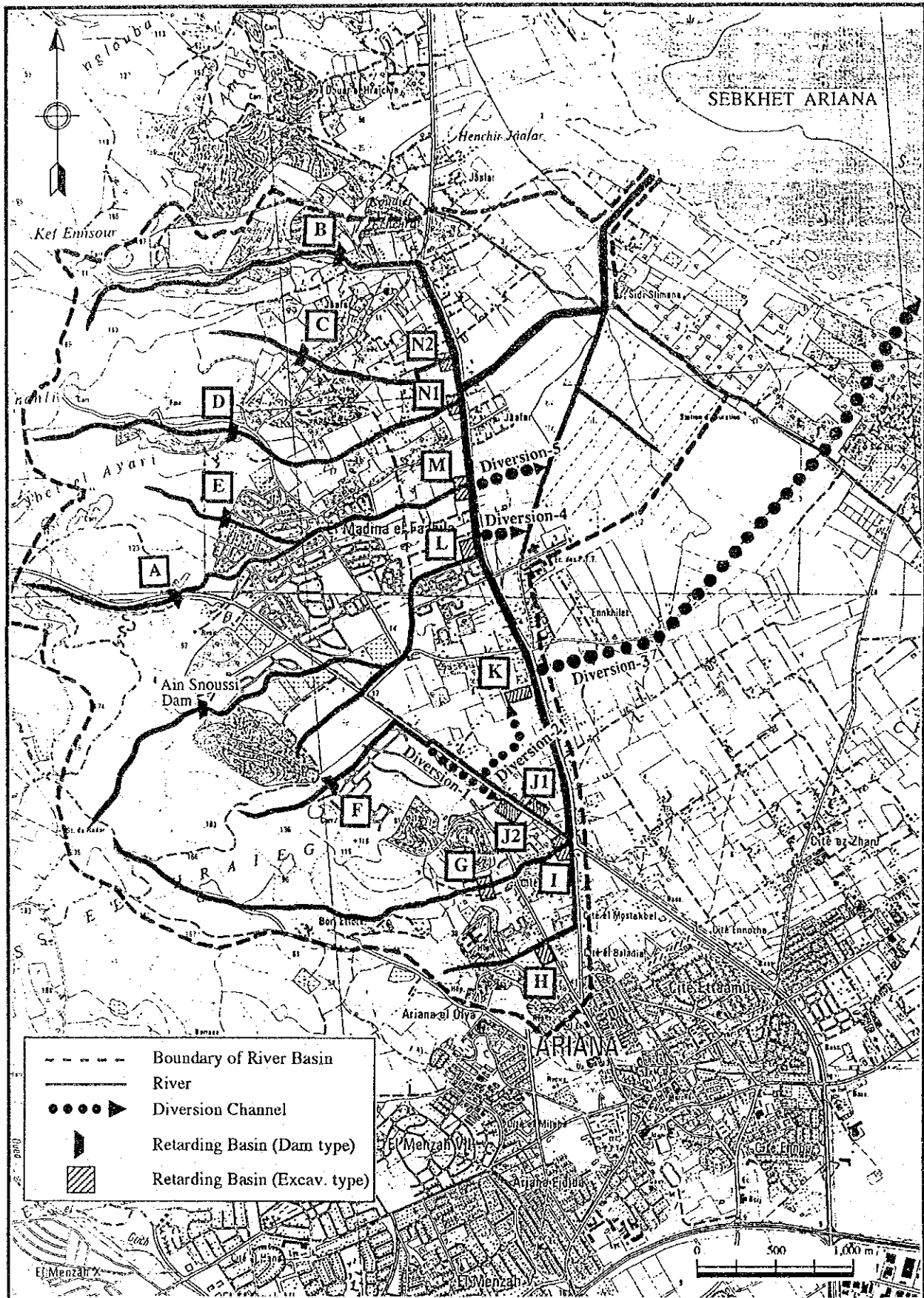


Fig. 8.2 Location of Proposed Retarding Basin and Diversion Channel in Oued Ennkhilet Basin

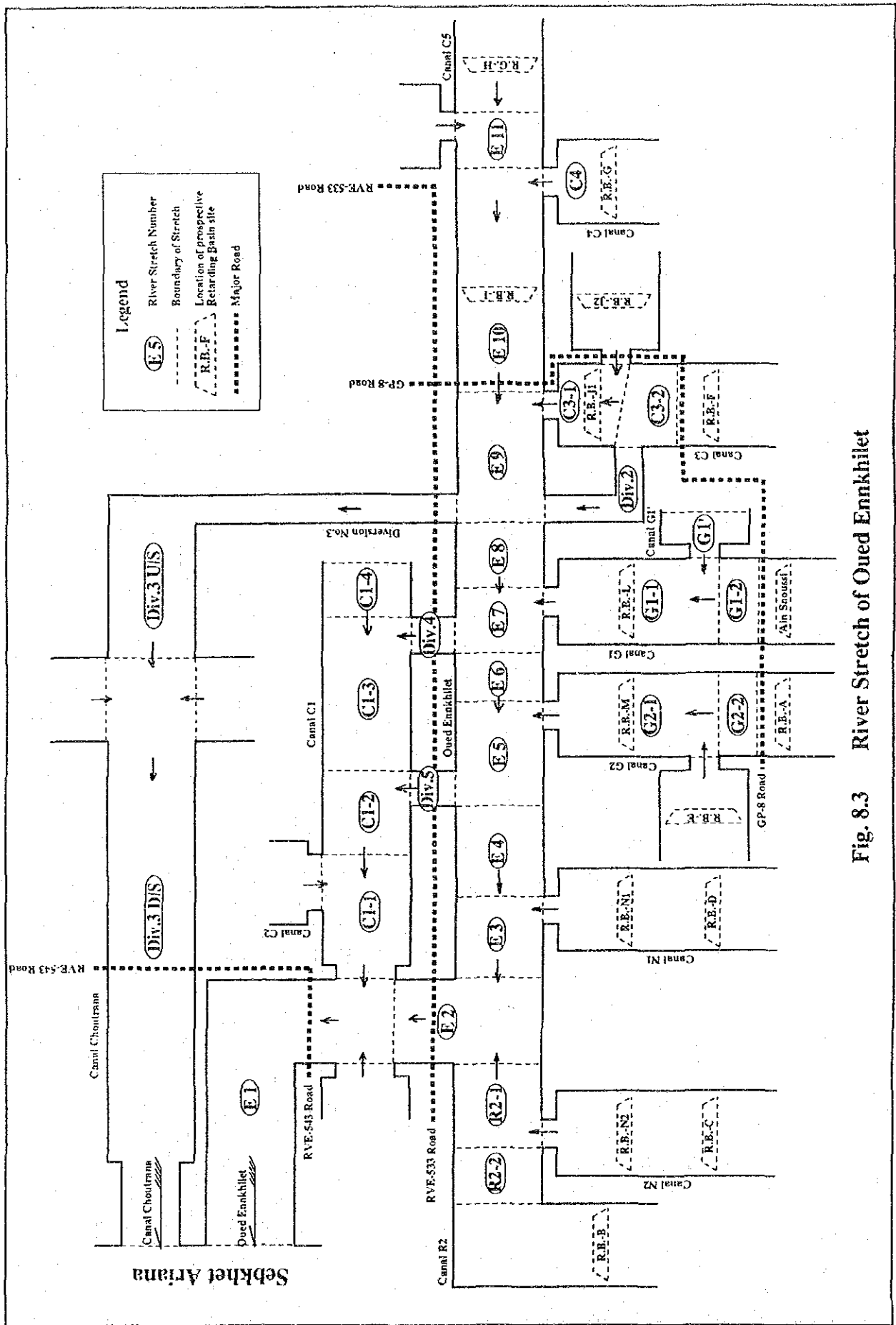


Fig. 8.3 River Stretch of Oued Ennkhiliet

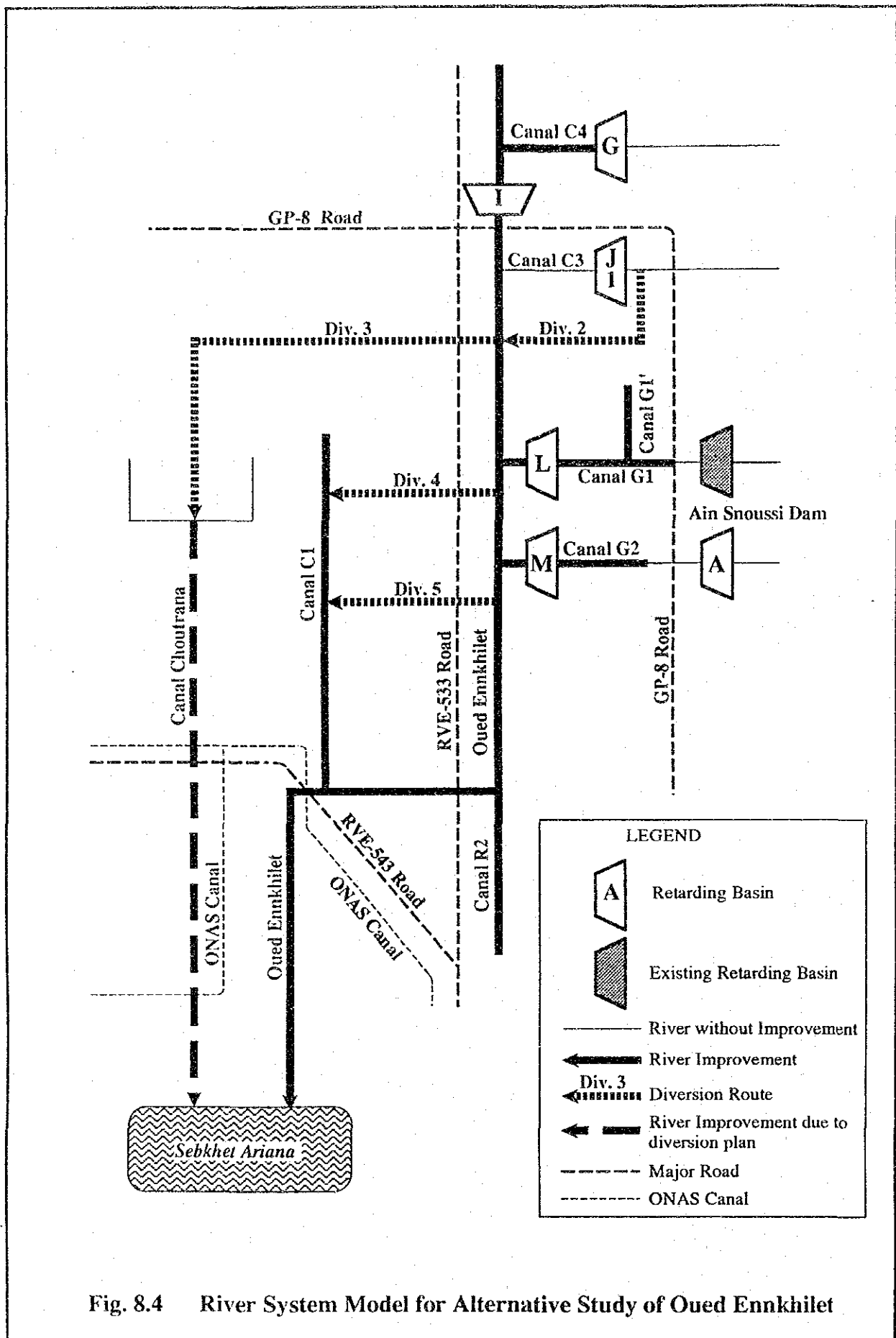
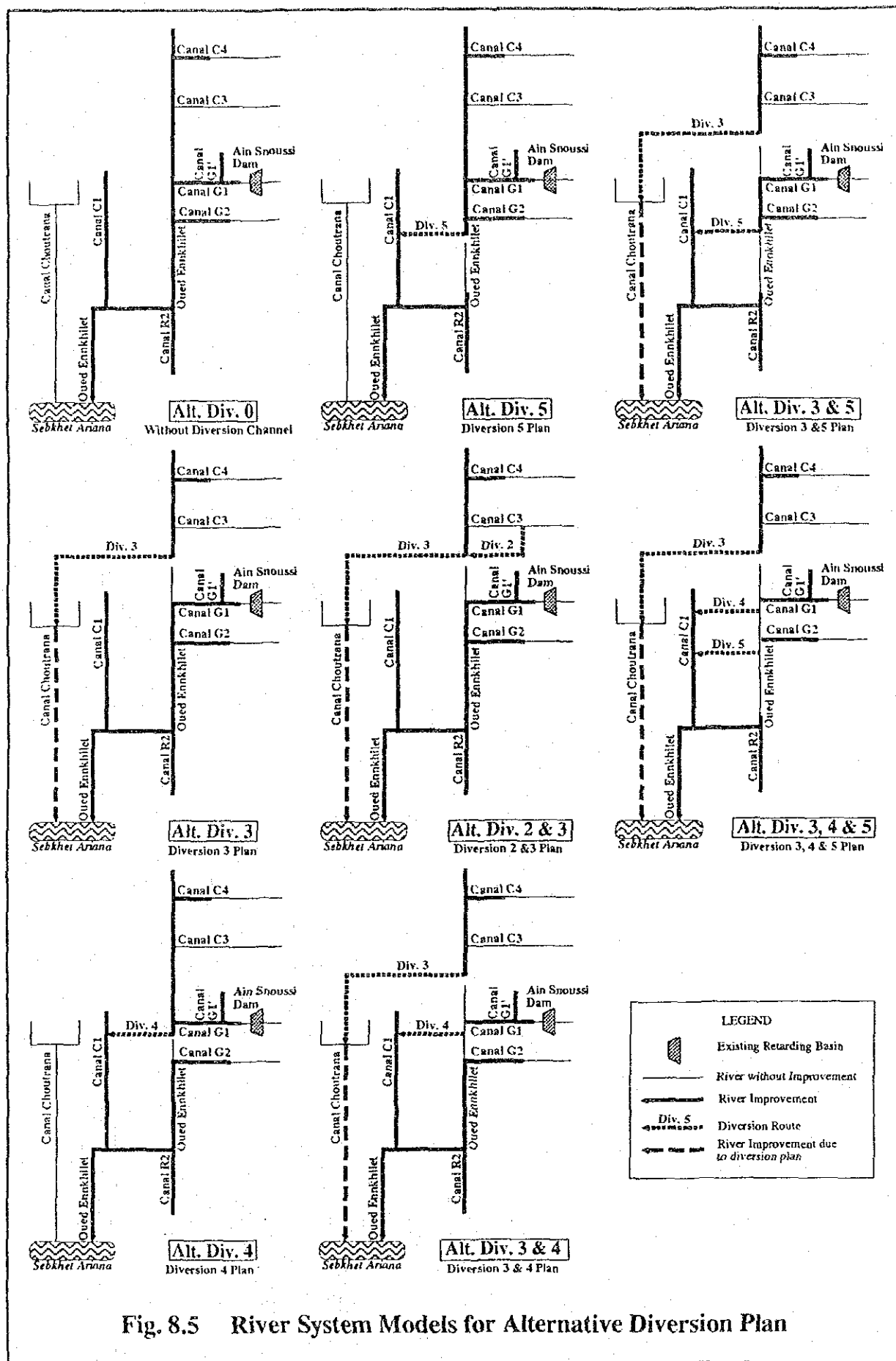


Fig. 8.4 River System Model for Alternative Study of Oued Ennkhiilet



**Fig. 8.5 River System Models for Alternative Diversion Plan**

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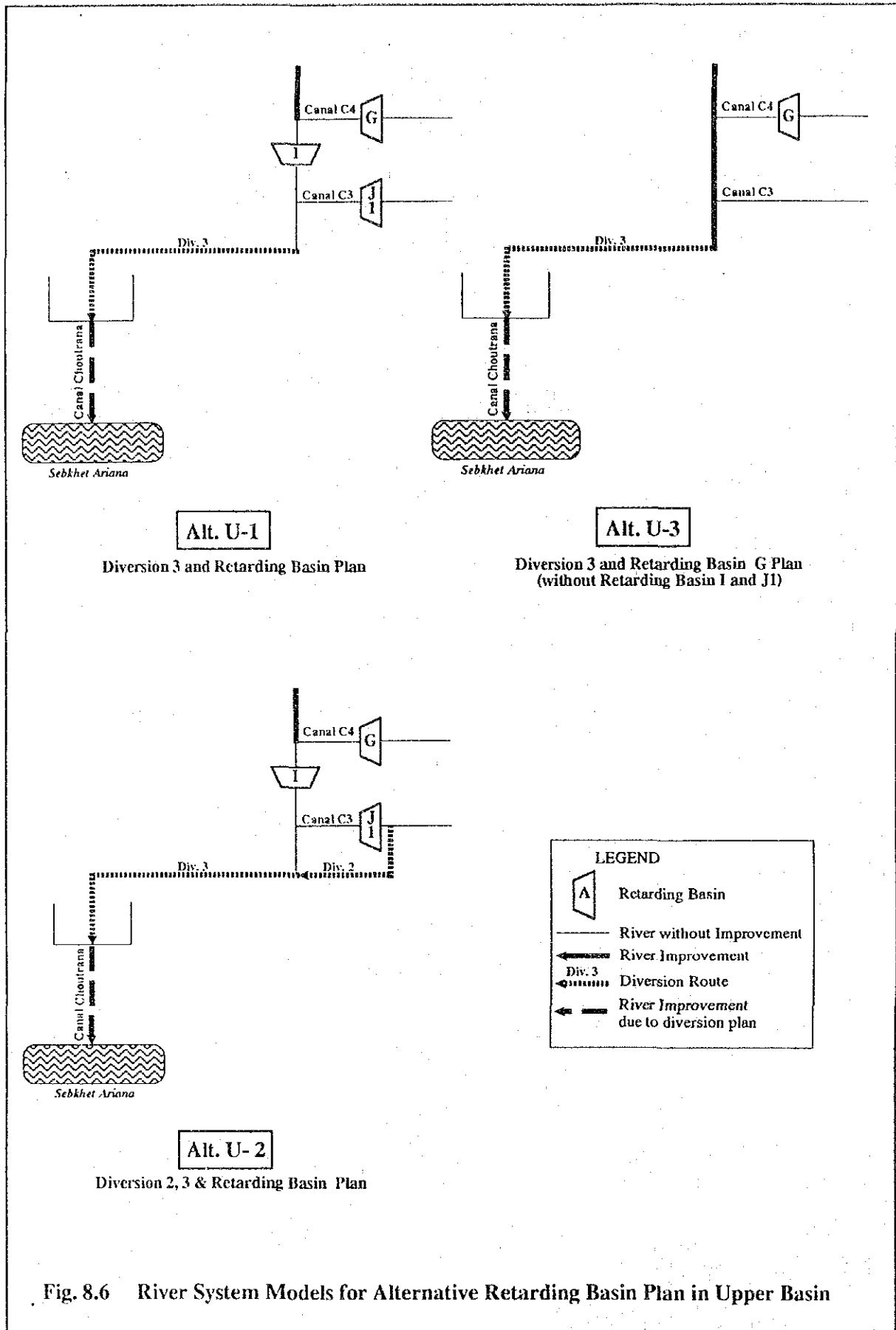
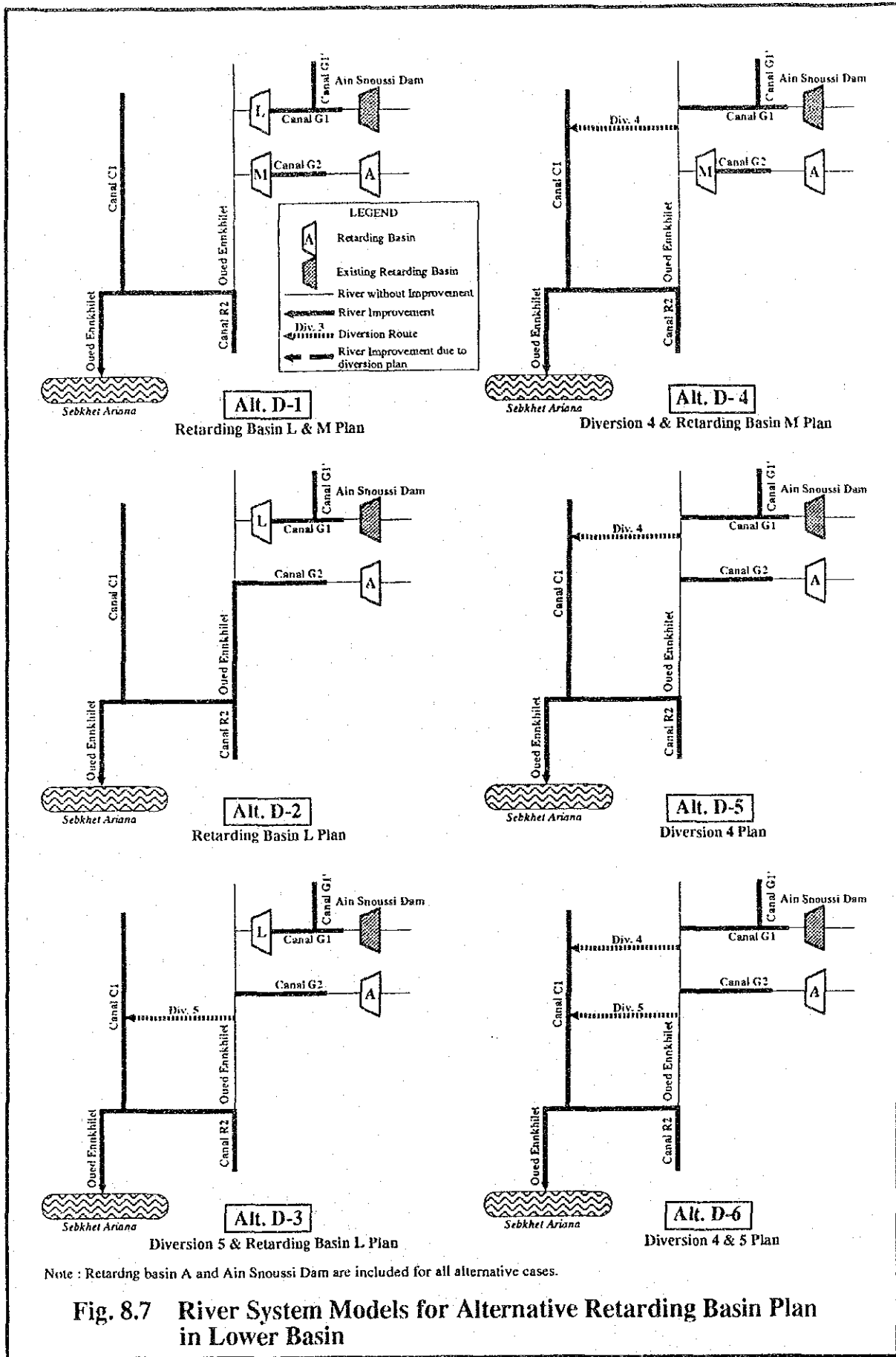


Fig. 8.6 River System Models for Alternative Retarding Basin Plan in Upper Basin

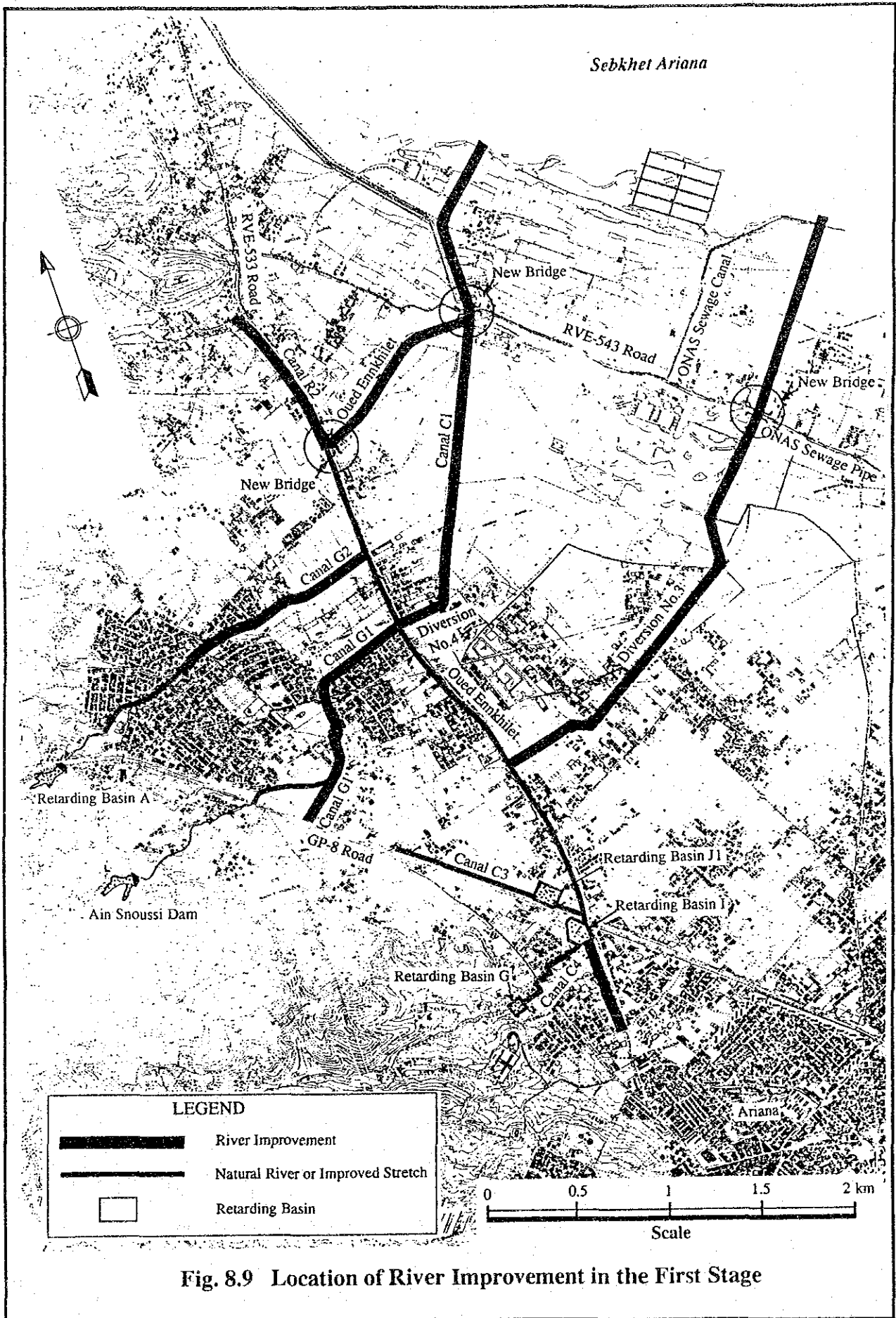
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**Fig. 8.7 River System Models for Alternative Retarding Basin Plan in Lower Basin**

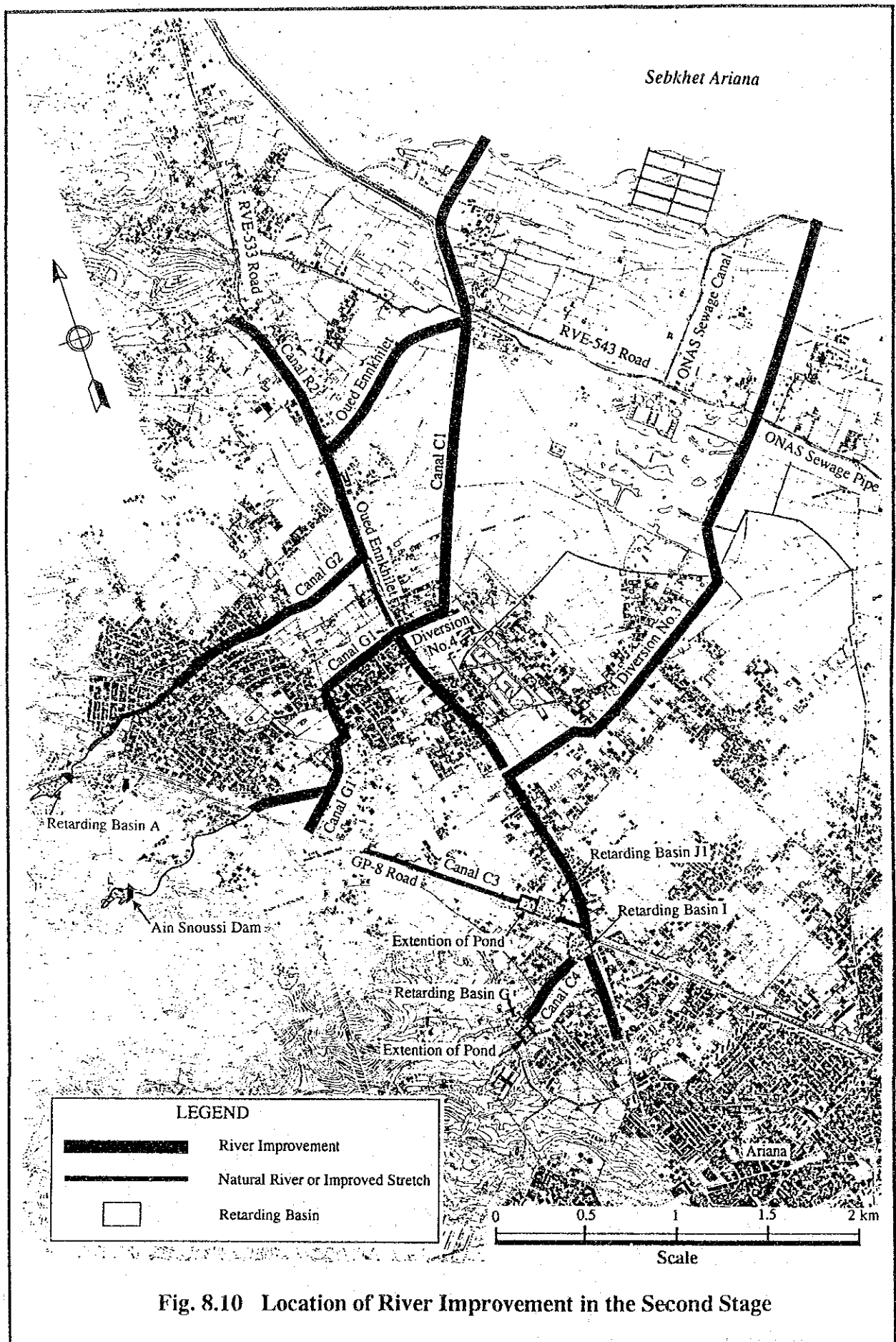
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**Fig. 8.9 Location of River Improvement in the First Stage**

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**Fig. 8.10 Location of River Improvement in the Second Stage**

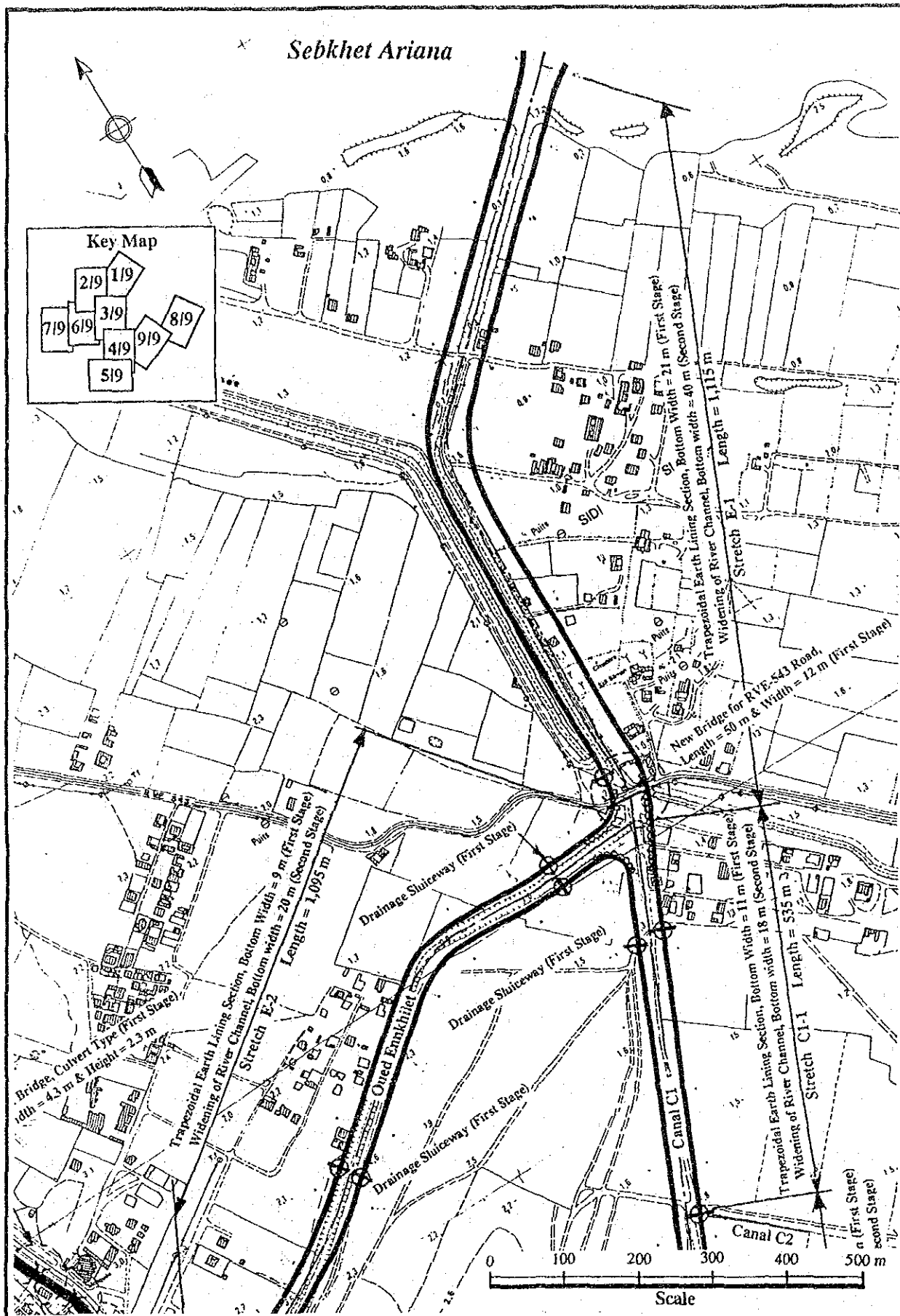
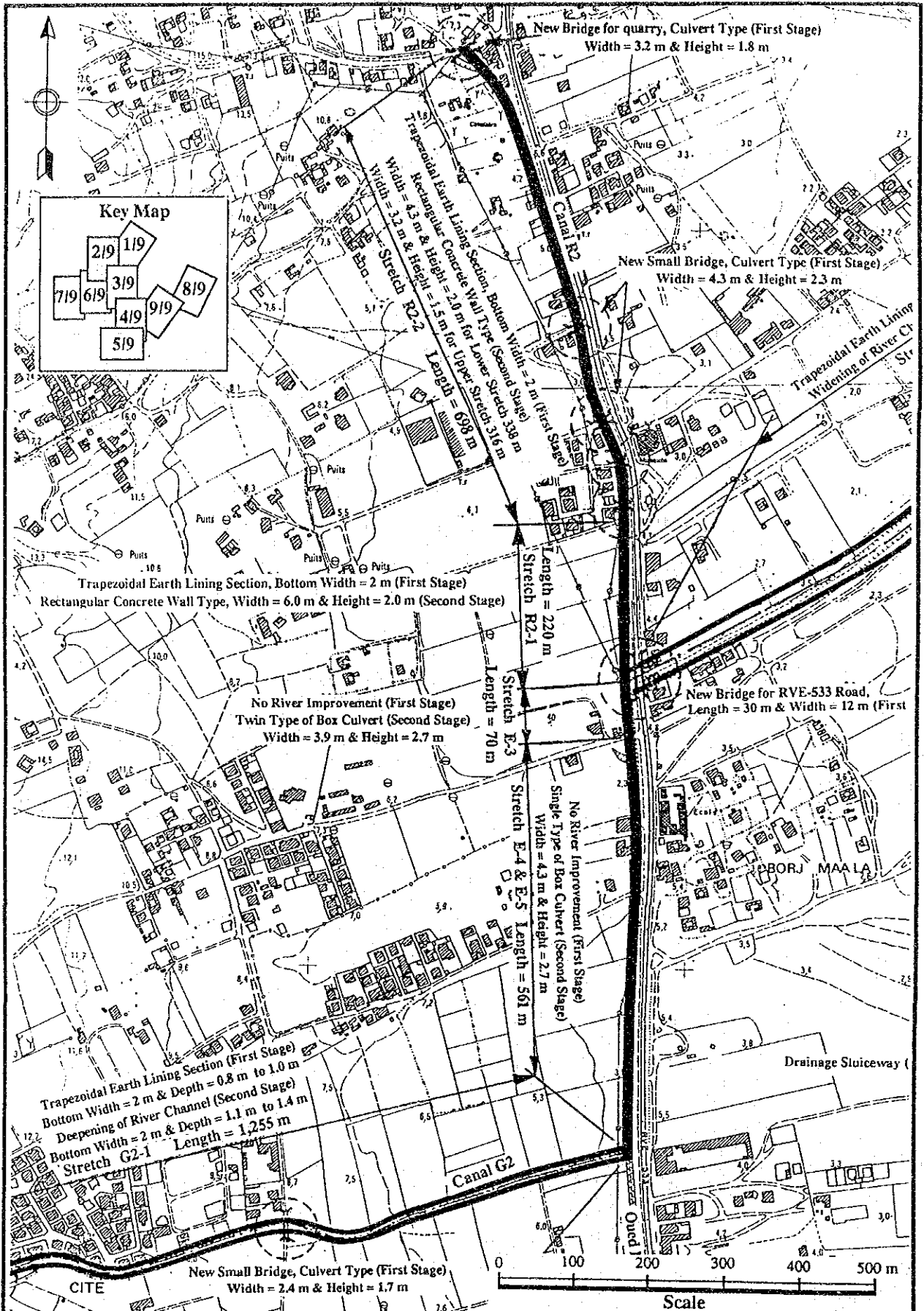


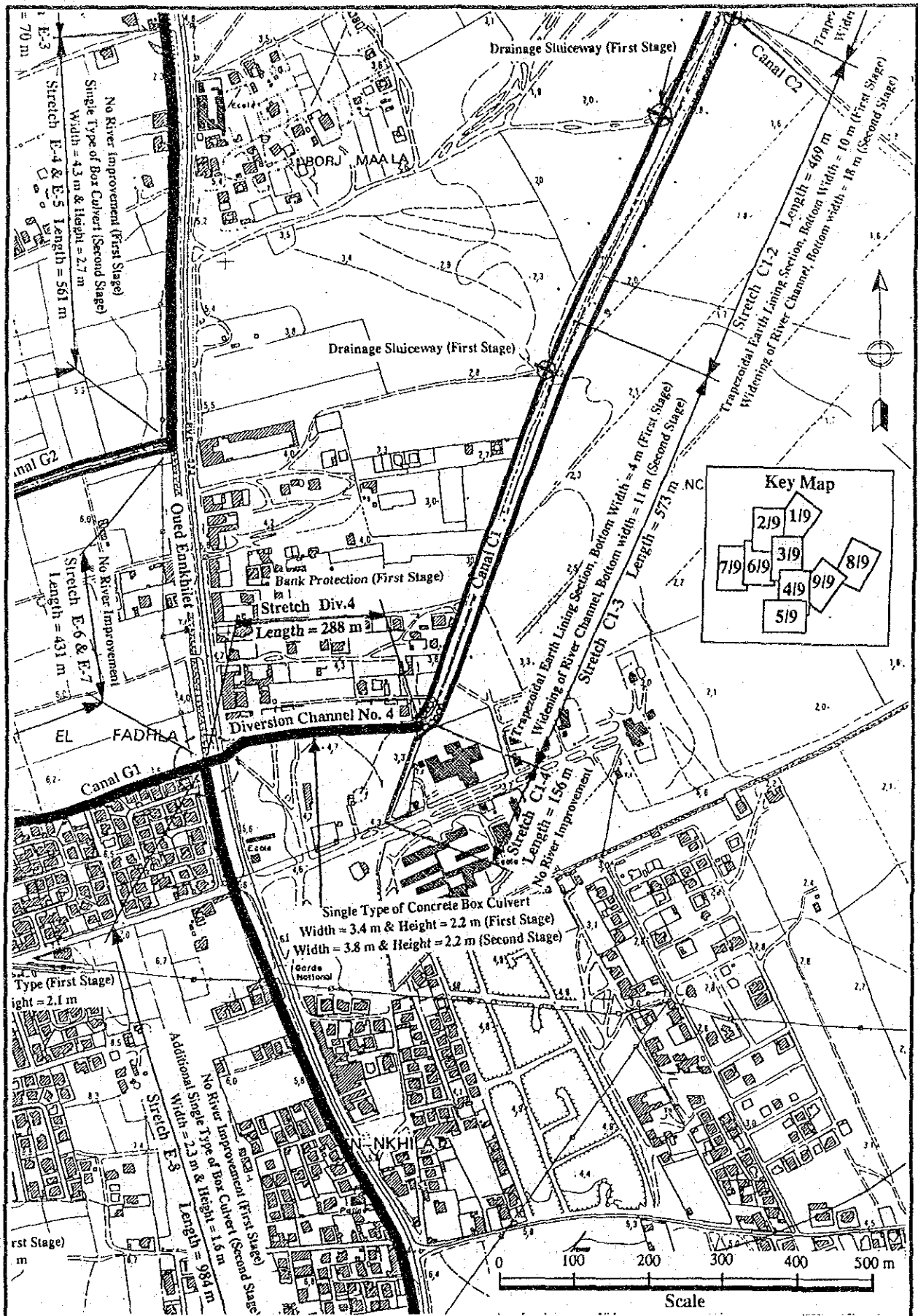
Fig. 9.1 General Layout of Oued Ennkhilet River Improvement Plan (1/9)

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**Fig. 9.1 General Layout of Oued Ennkhilet River Improvement Plan (2/19)**

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**Fig. 9.1 General Layout of Oued Enkhilet River Improvement Plan (3/9)**

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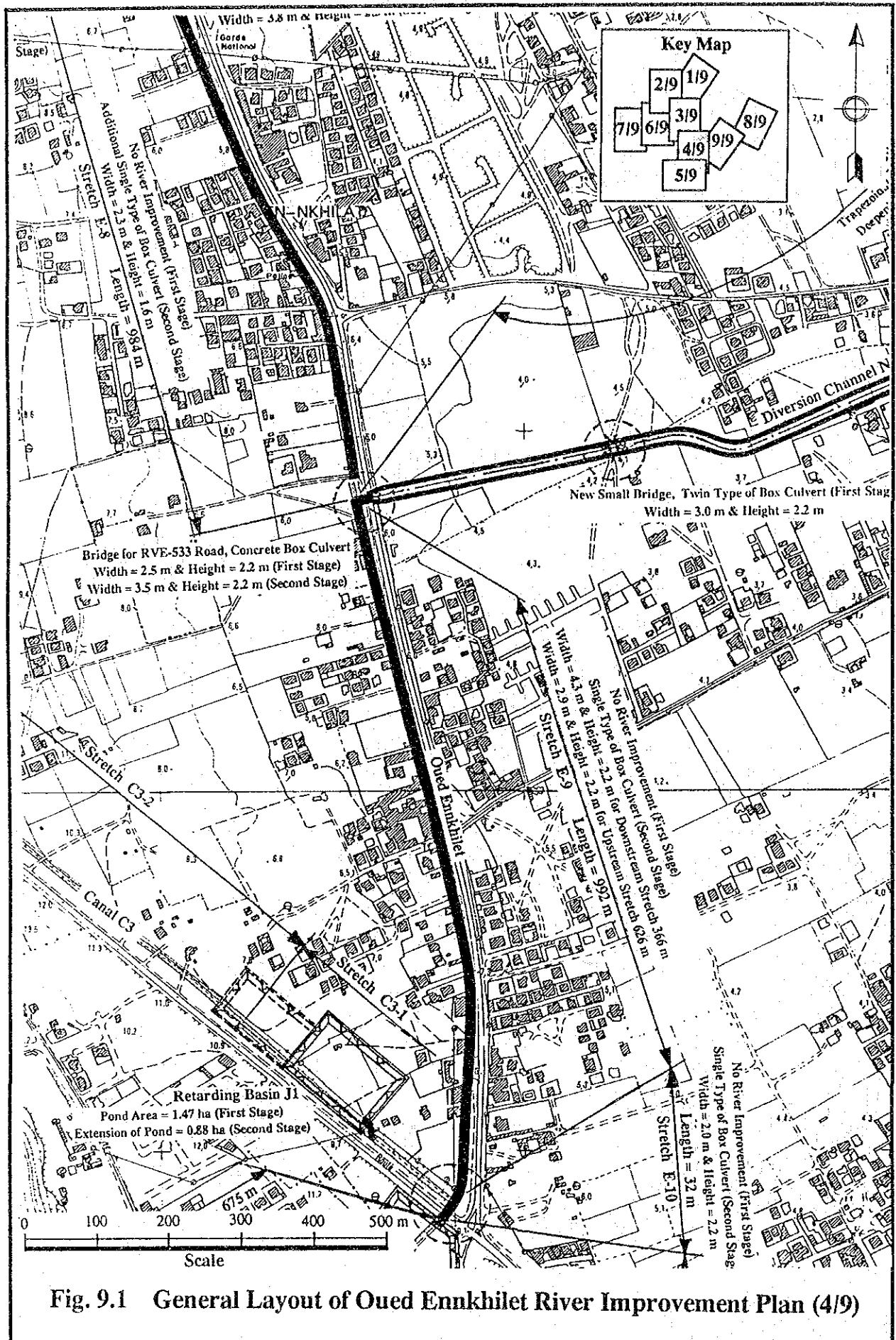


Fig. 9.1 General Layout of Oued Ennkhiilet River Improvement Plan (4/9)

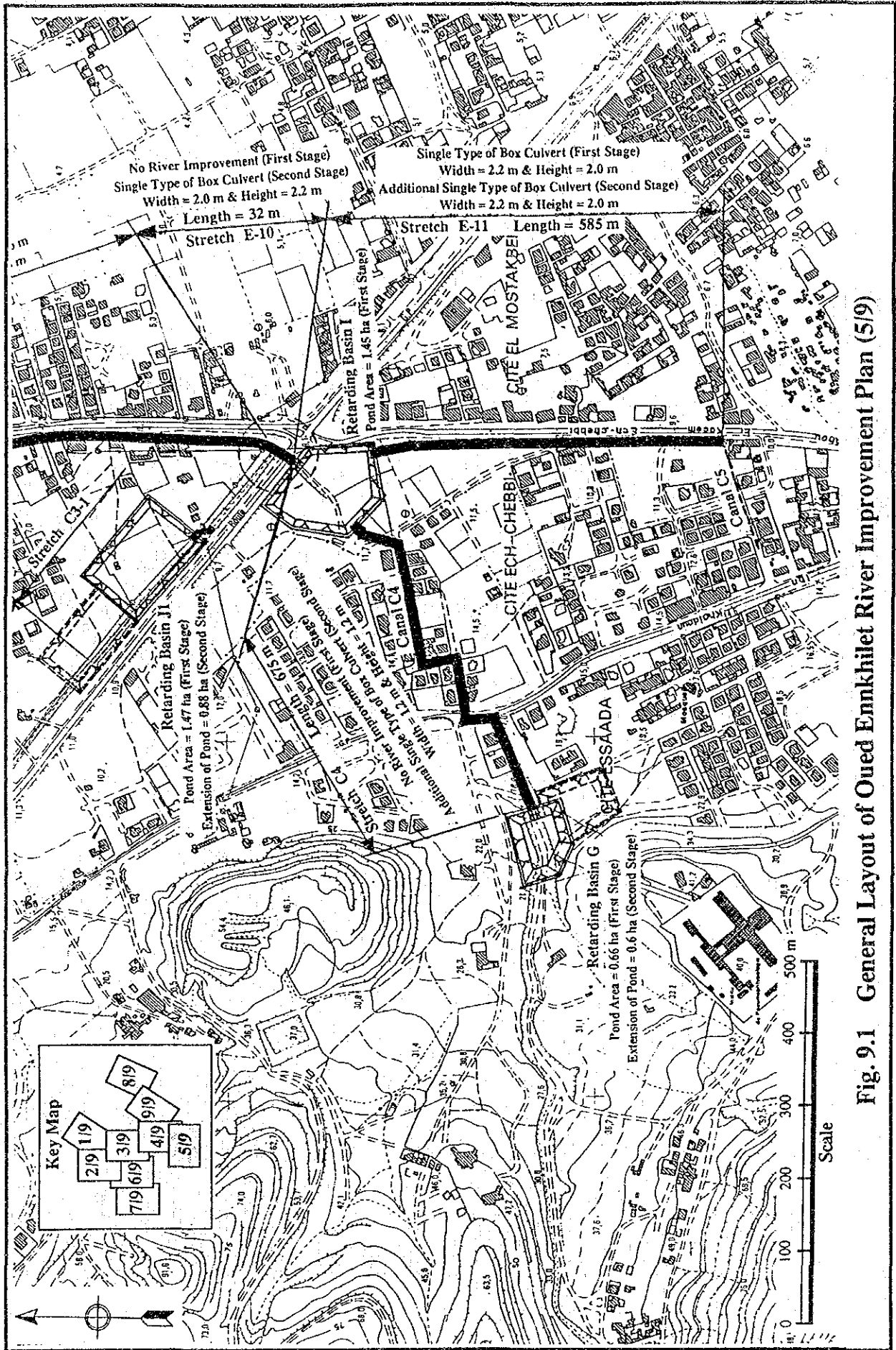


Fig. 9.1 General Layout of Oued Enkhilet River Improvement Plan (519)

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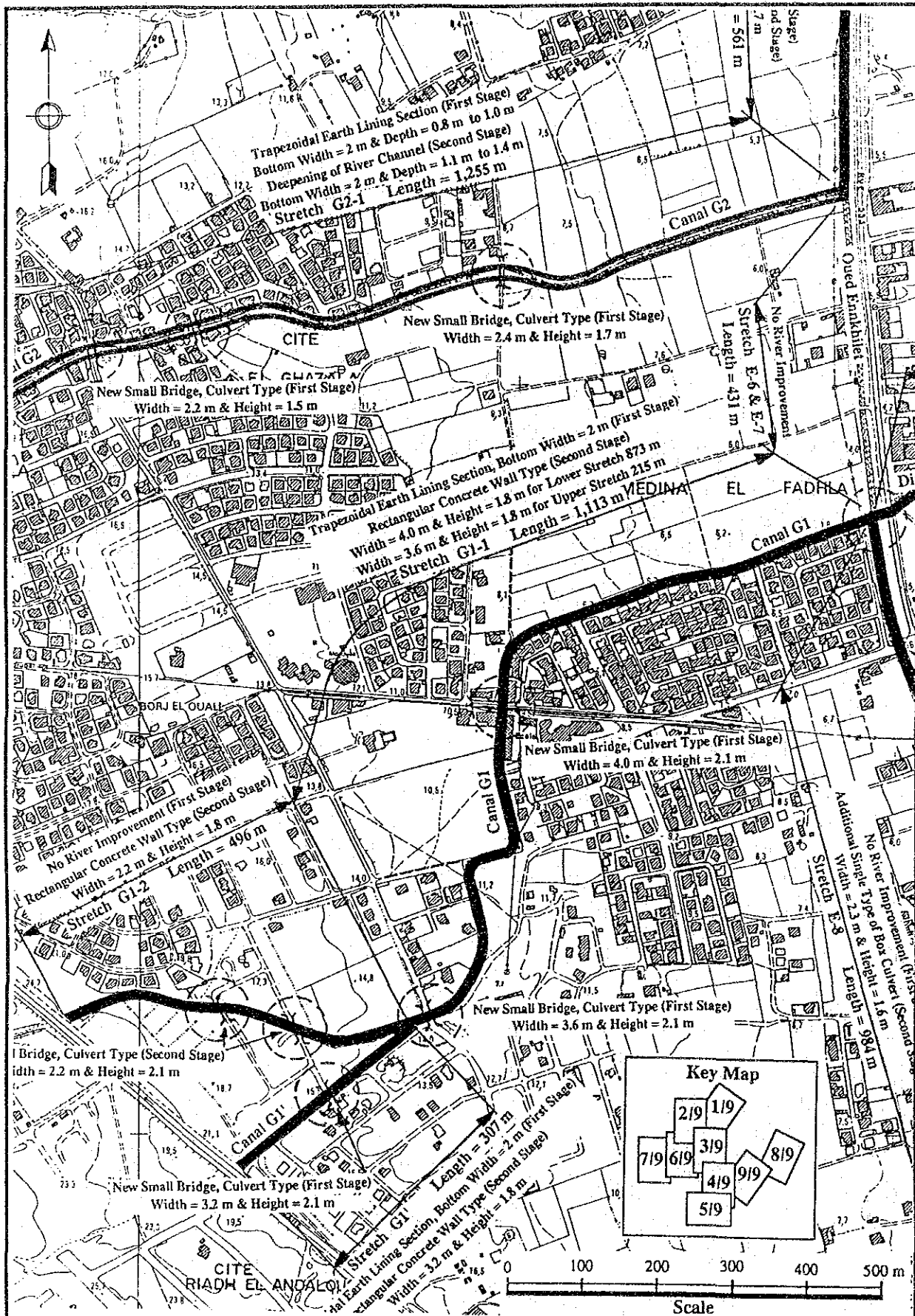
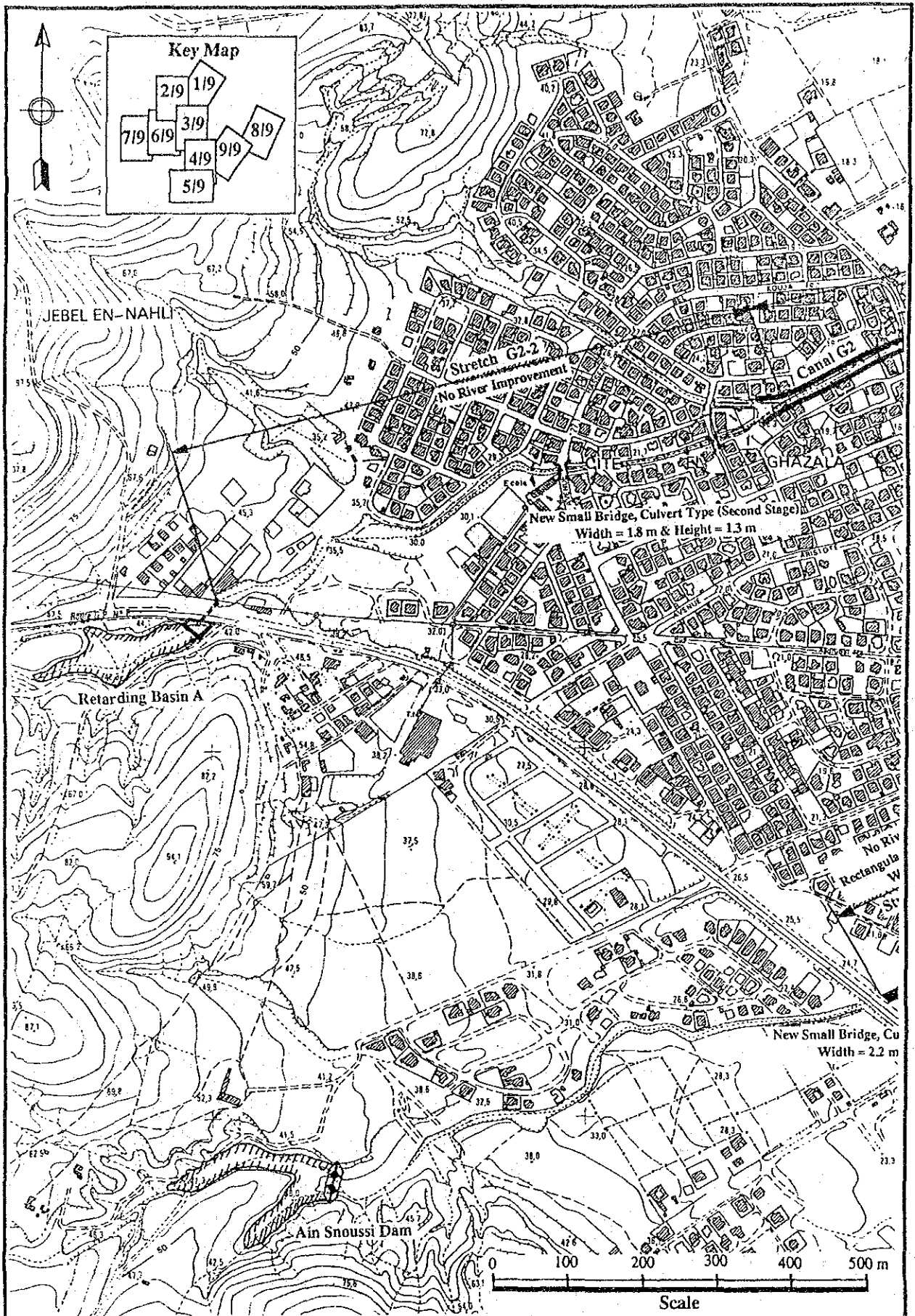


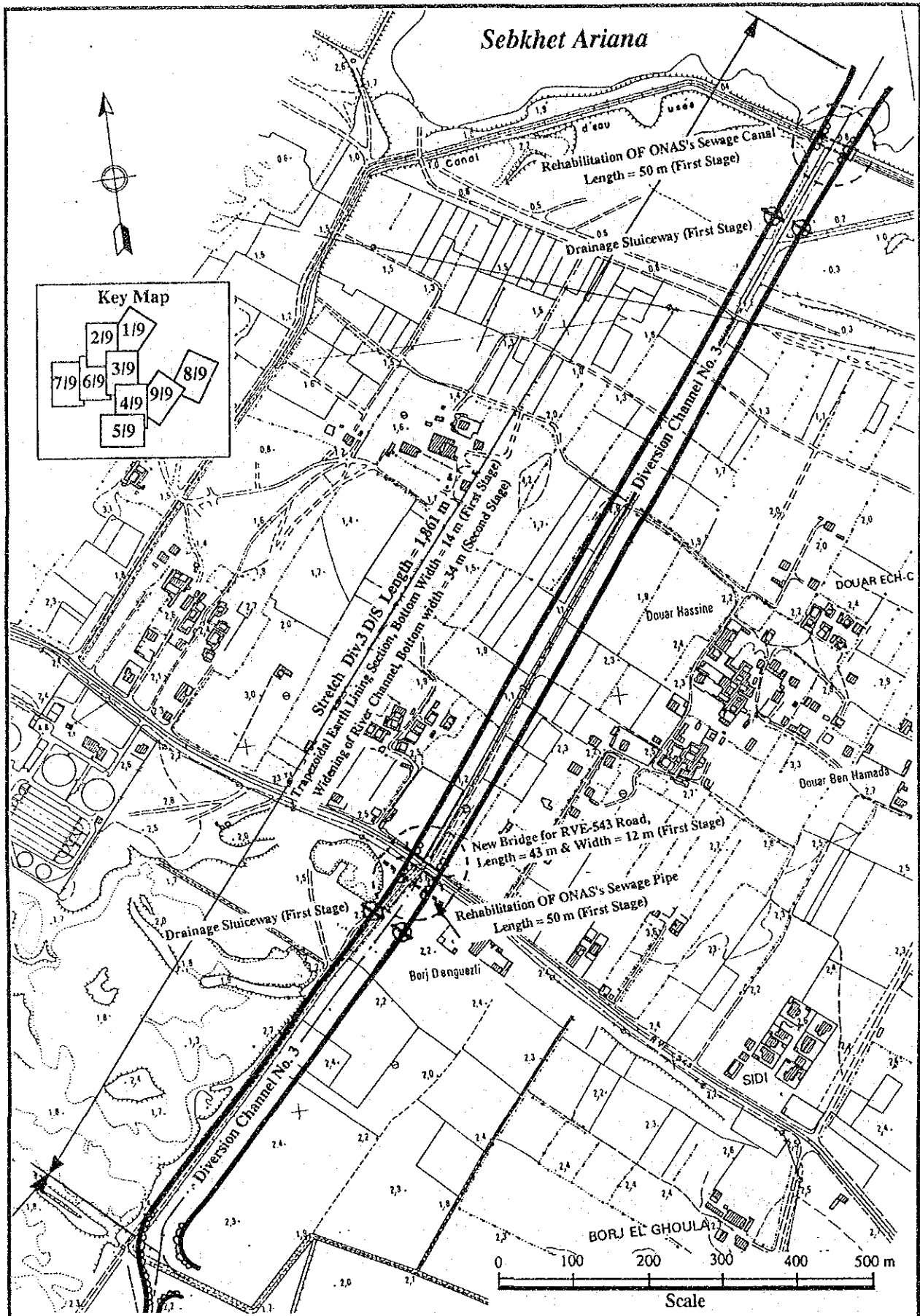
Fig. 9.1 General Layout of Oued Ennkhiilet River Improvement Plan (6/9)

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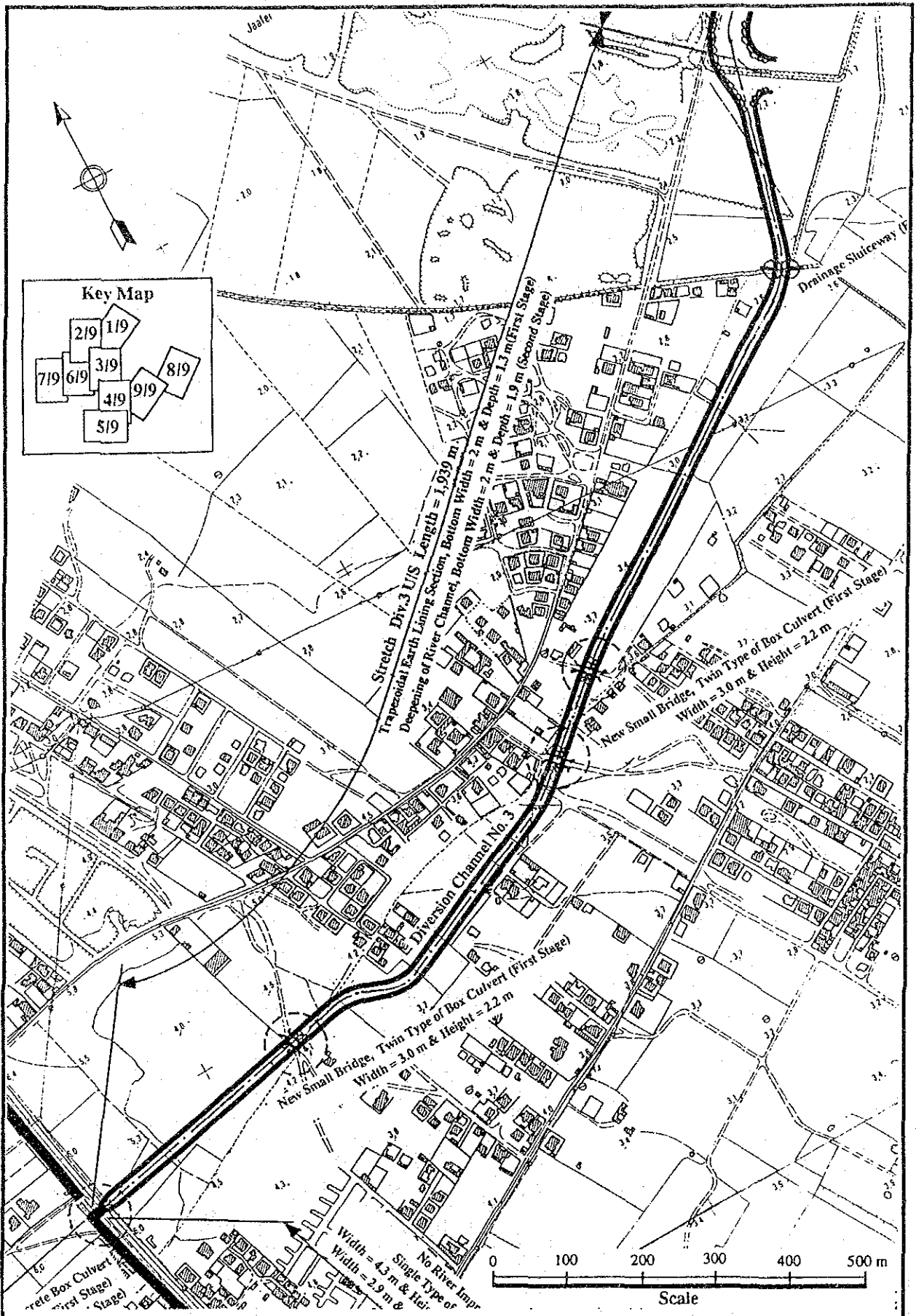
**Fig. 9.1 General Layout of Oued Enkhilet River Improvement Plan (7/9)**

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**Fig. 9.1 General Layout of Oued Ennkhilet River Improvement Plan (8/9)**

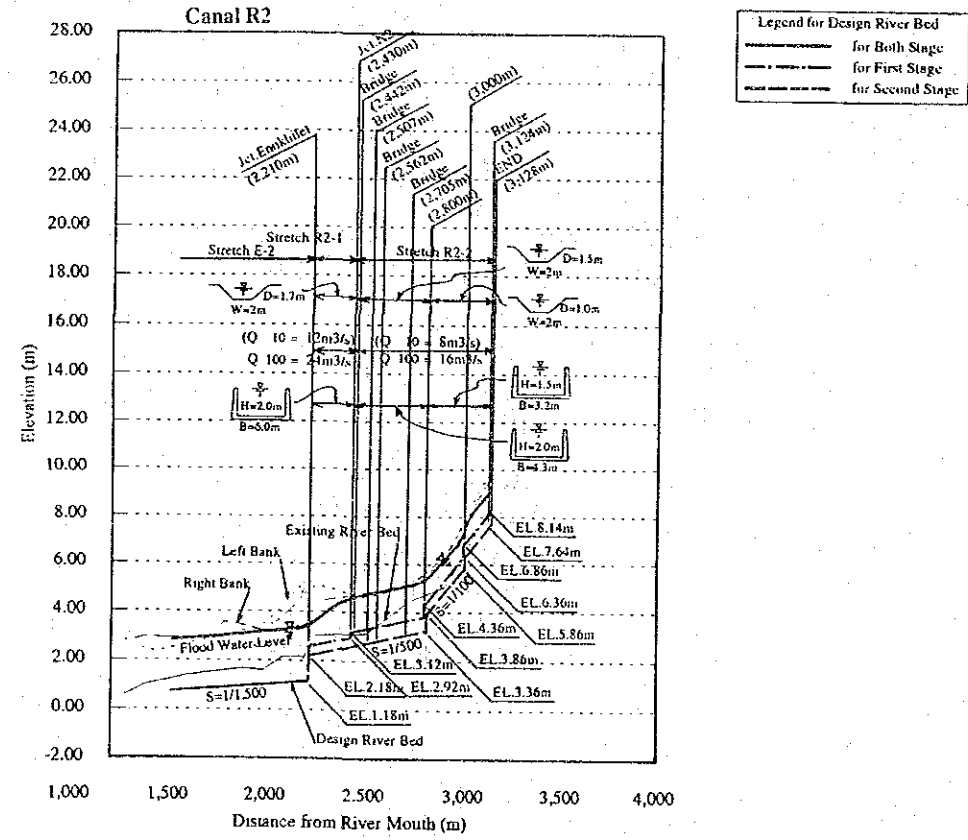
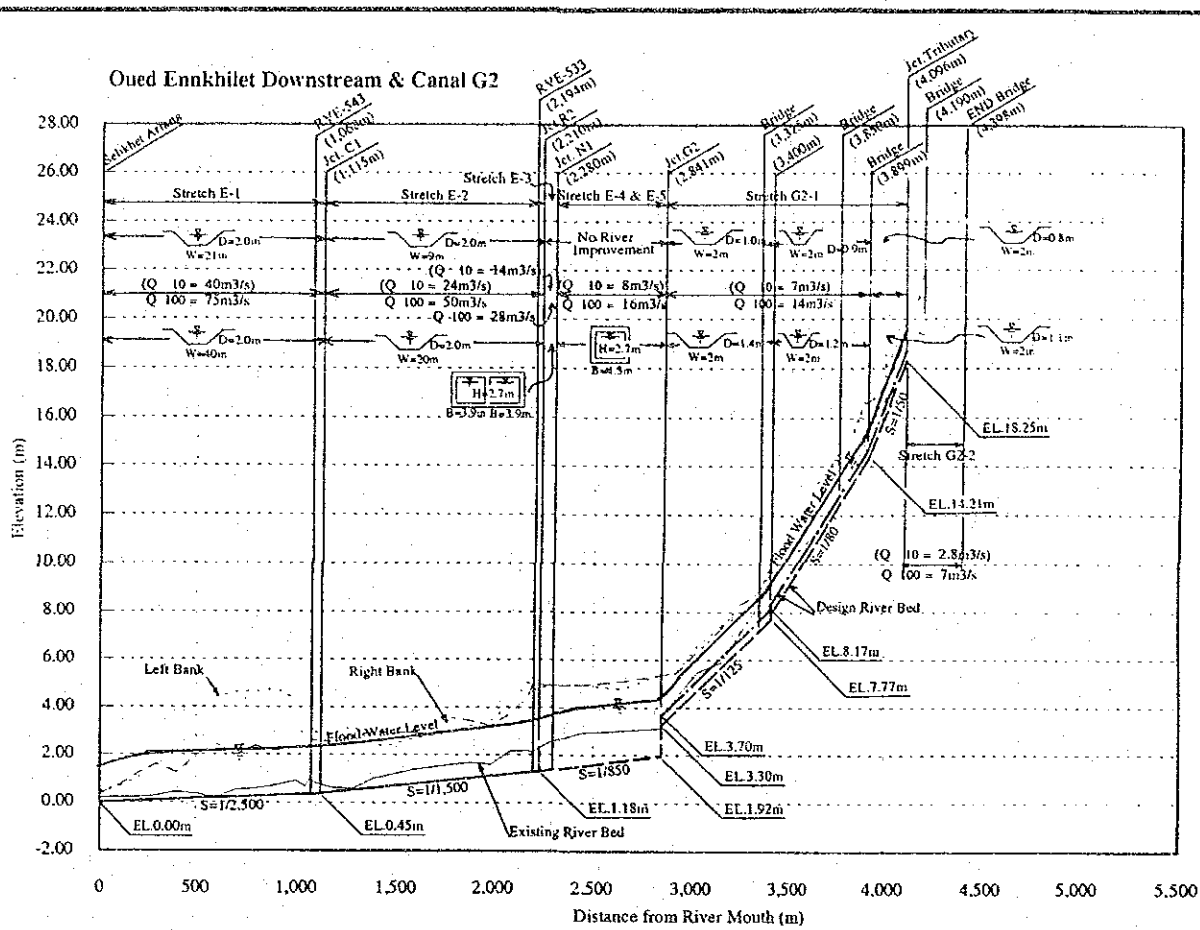
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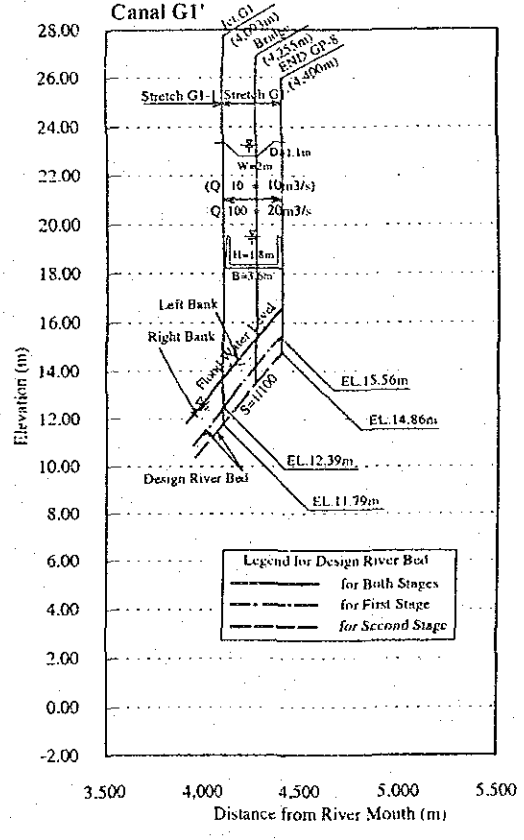
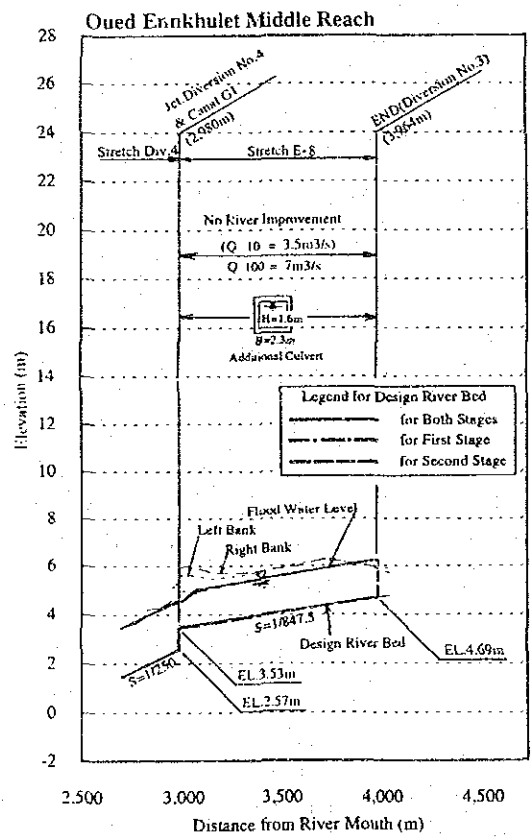
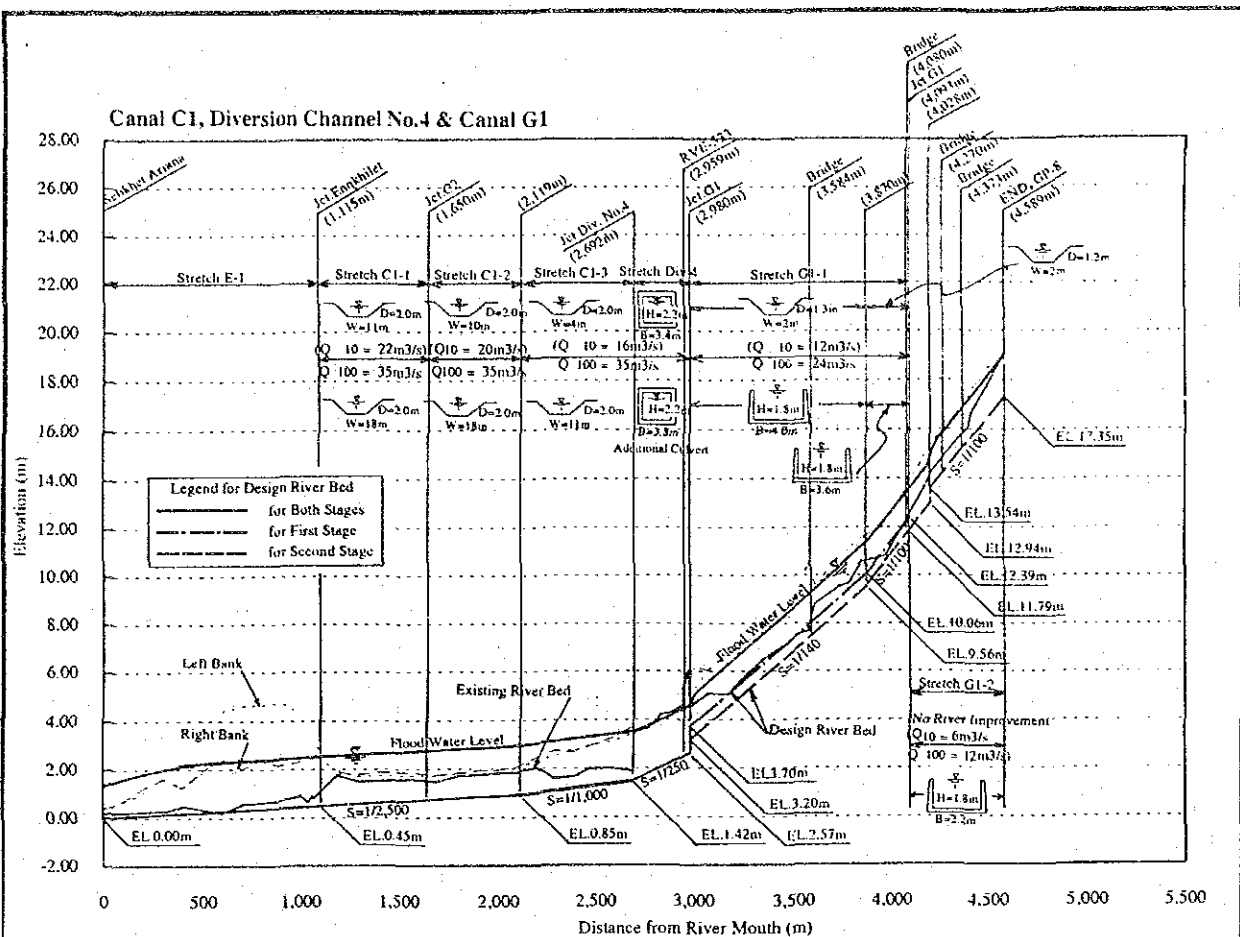
**Fig. 9.1 General Layout of Oued Ennkhilet River Improvement Plan (9/9)**

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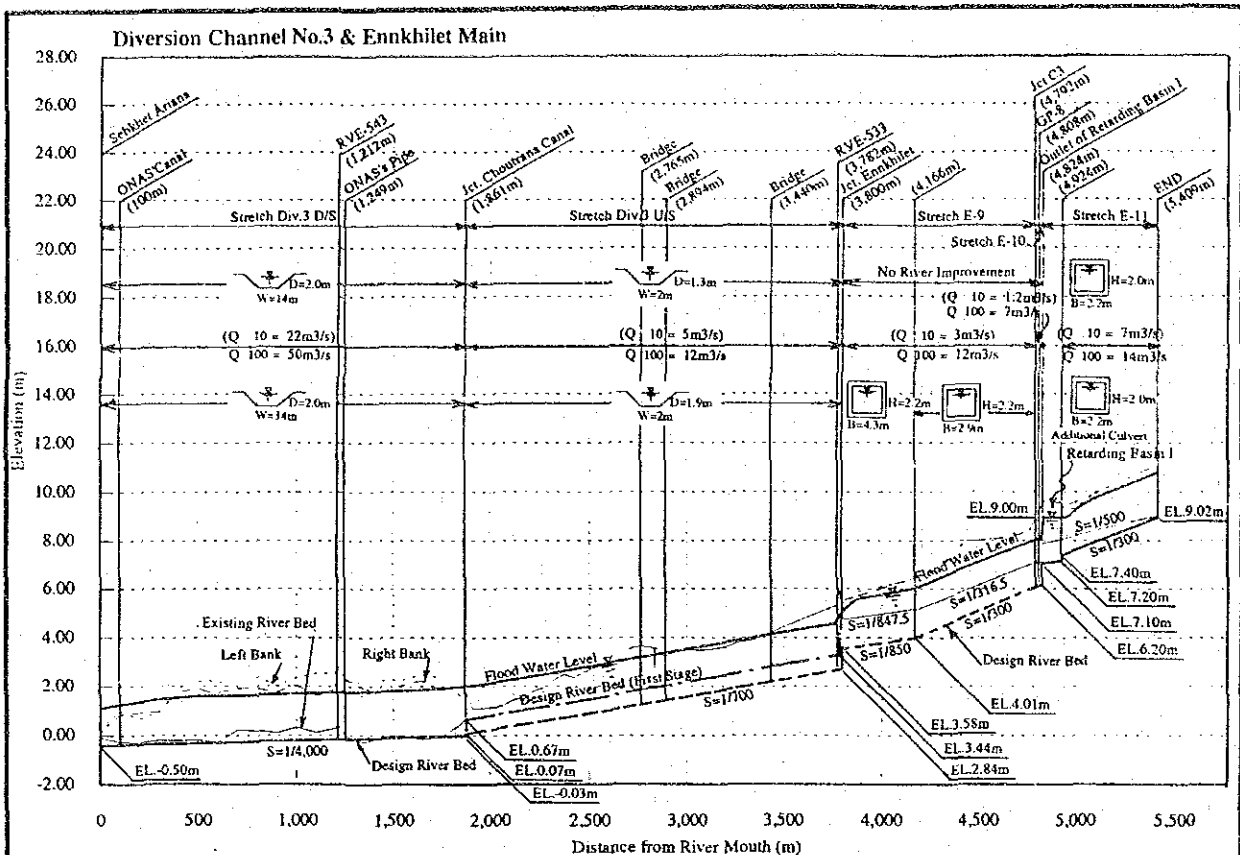


**Fig. 9.2 Longitudinal Profile of Oued Ennkhiilet (1/3)**



**Fig. 9.2 Longitudinal Profile of Oued Ennkhuilet (2/3)**





Legend for Design River Bed  
 - - - - - for Both Stages  
 - - - - - for First Stage  
 - - - - - for Second Stage

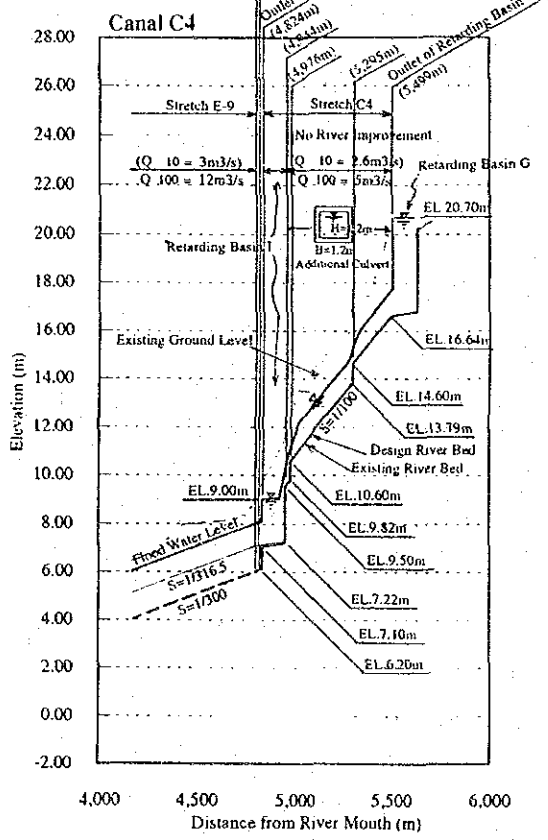
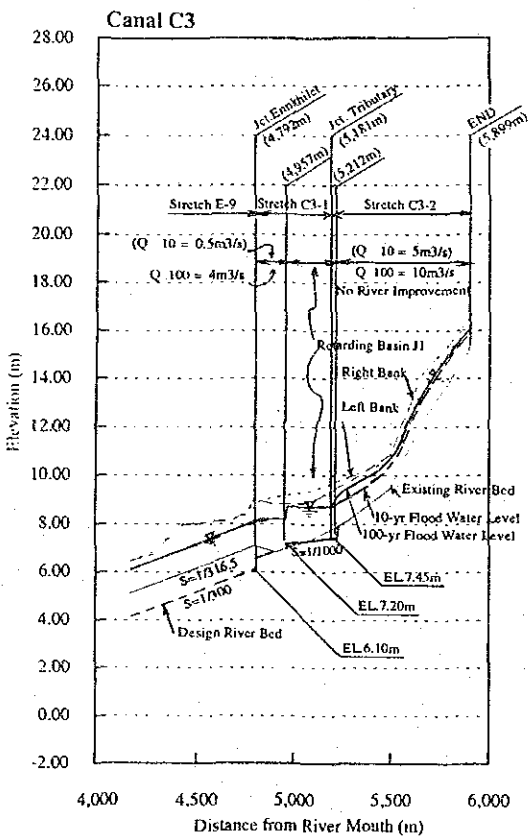
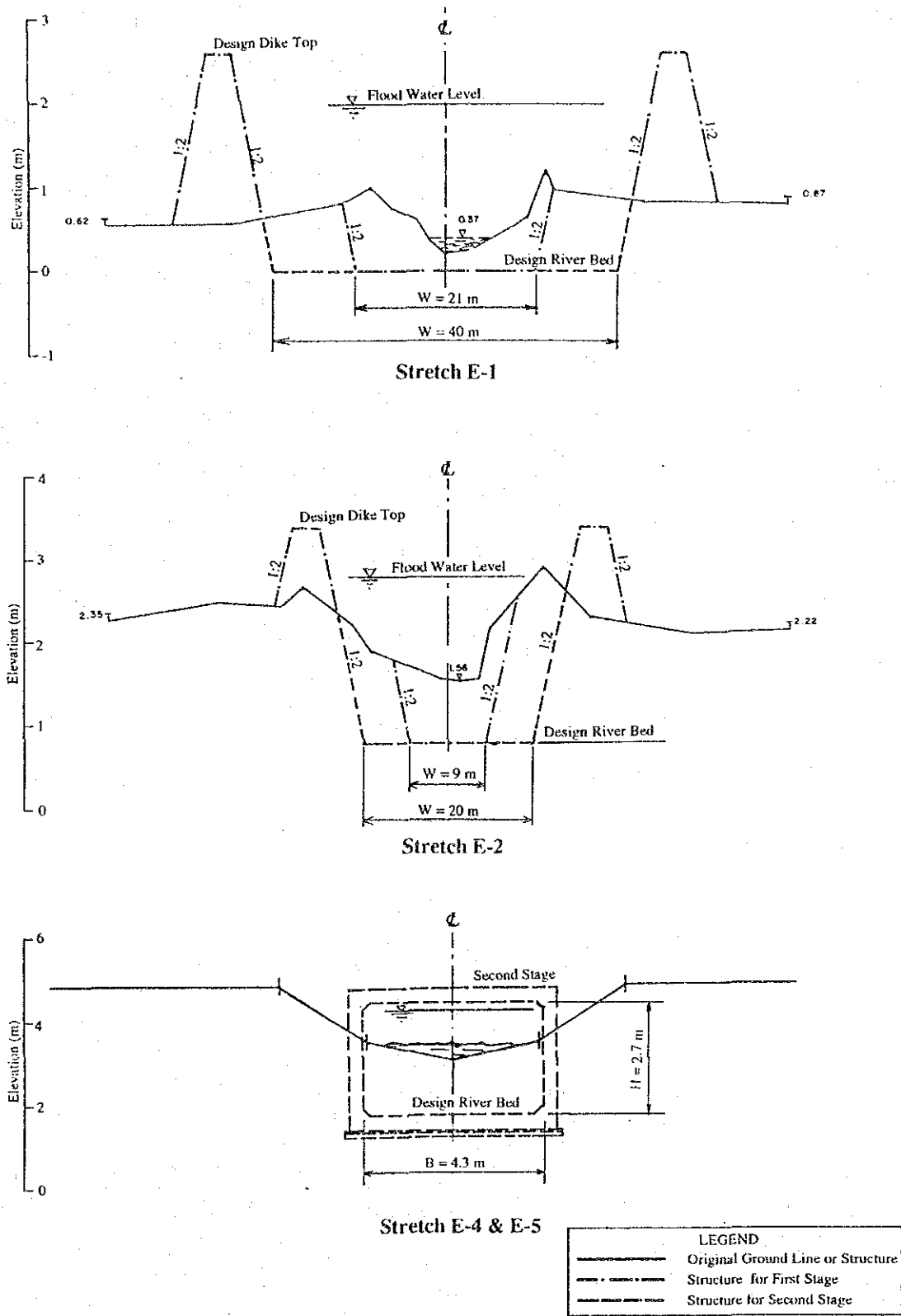


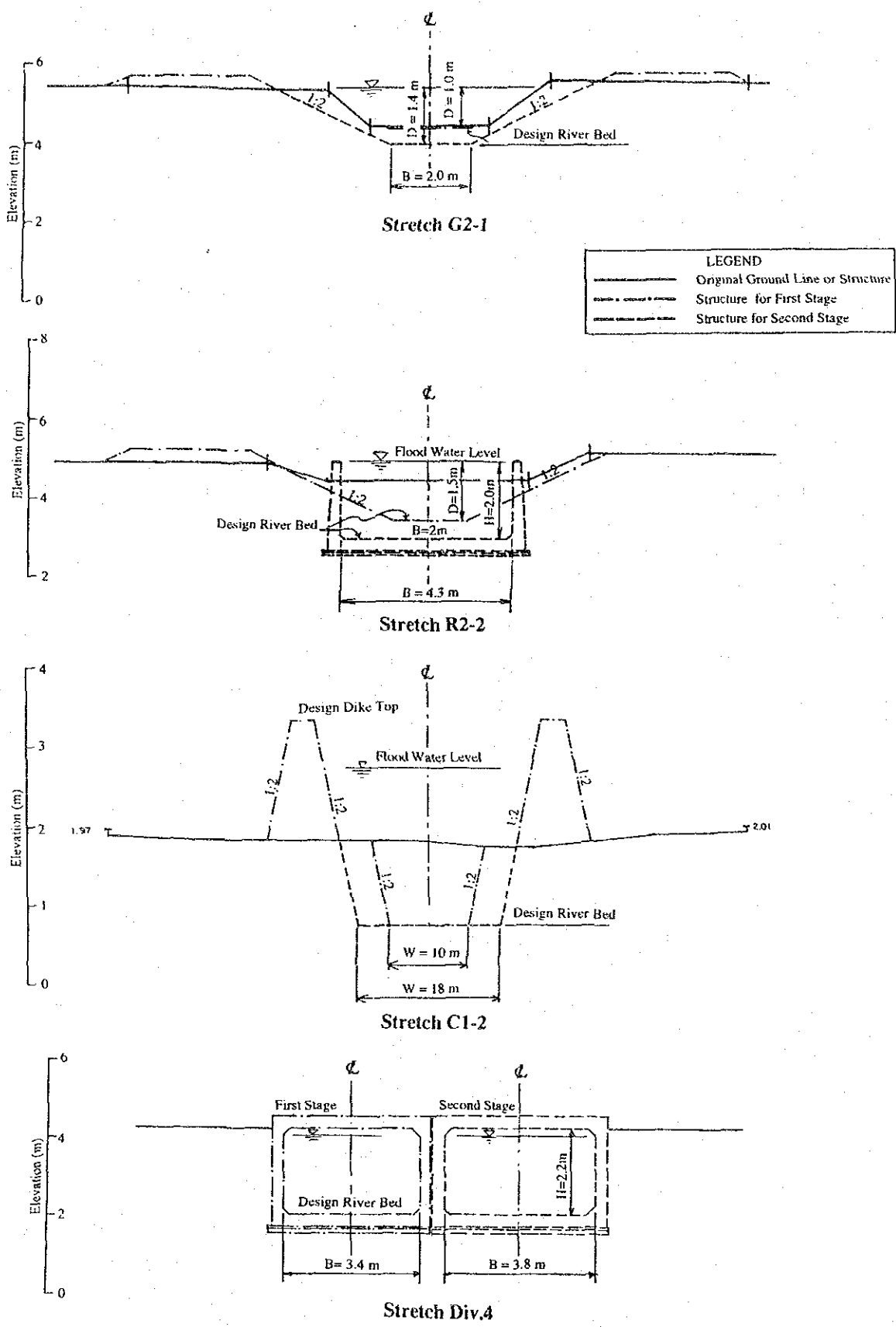
Fig. 9.2 Longitudinal Profile of Oued Ennkhilet (3/3)

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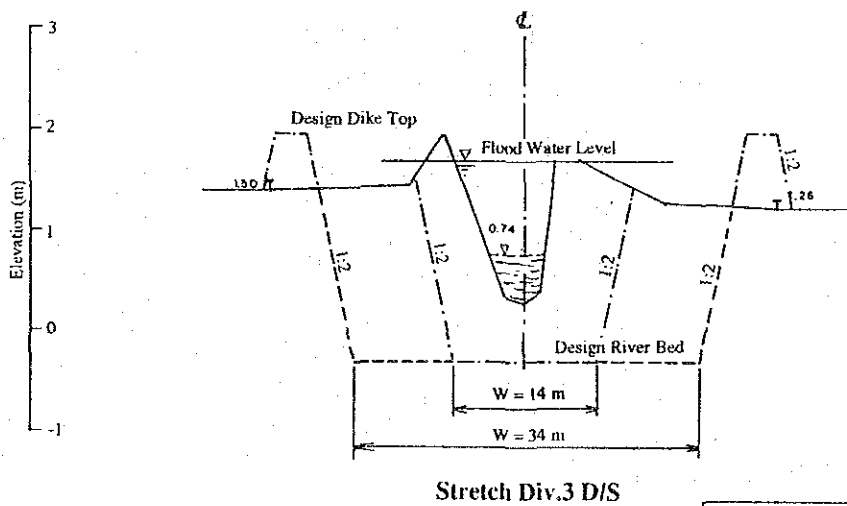
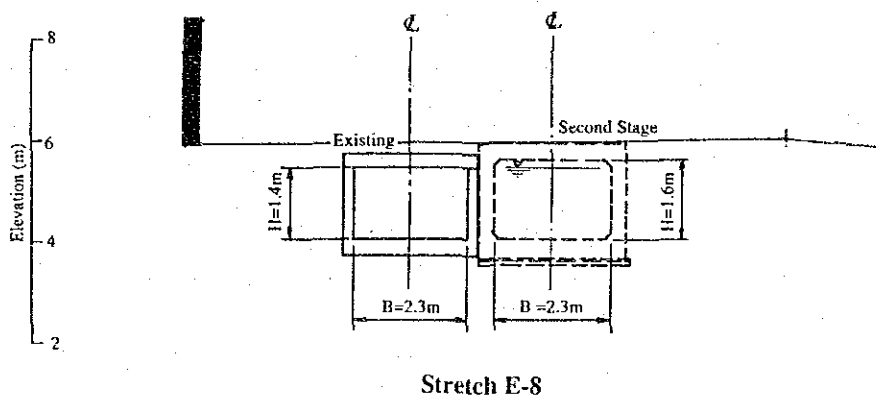
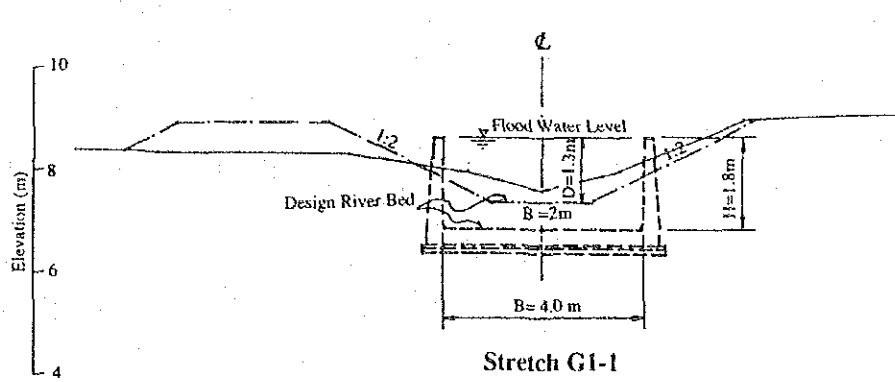
**Fig. 9.3 Typical Cross Sections of Oued Enkhilet (1/4)**

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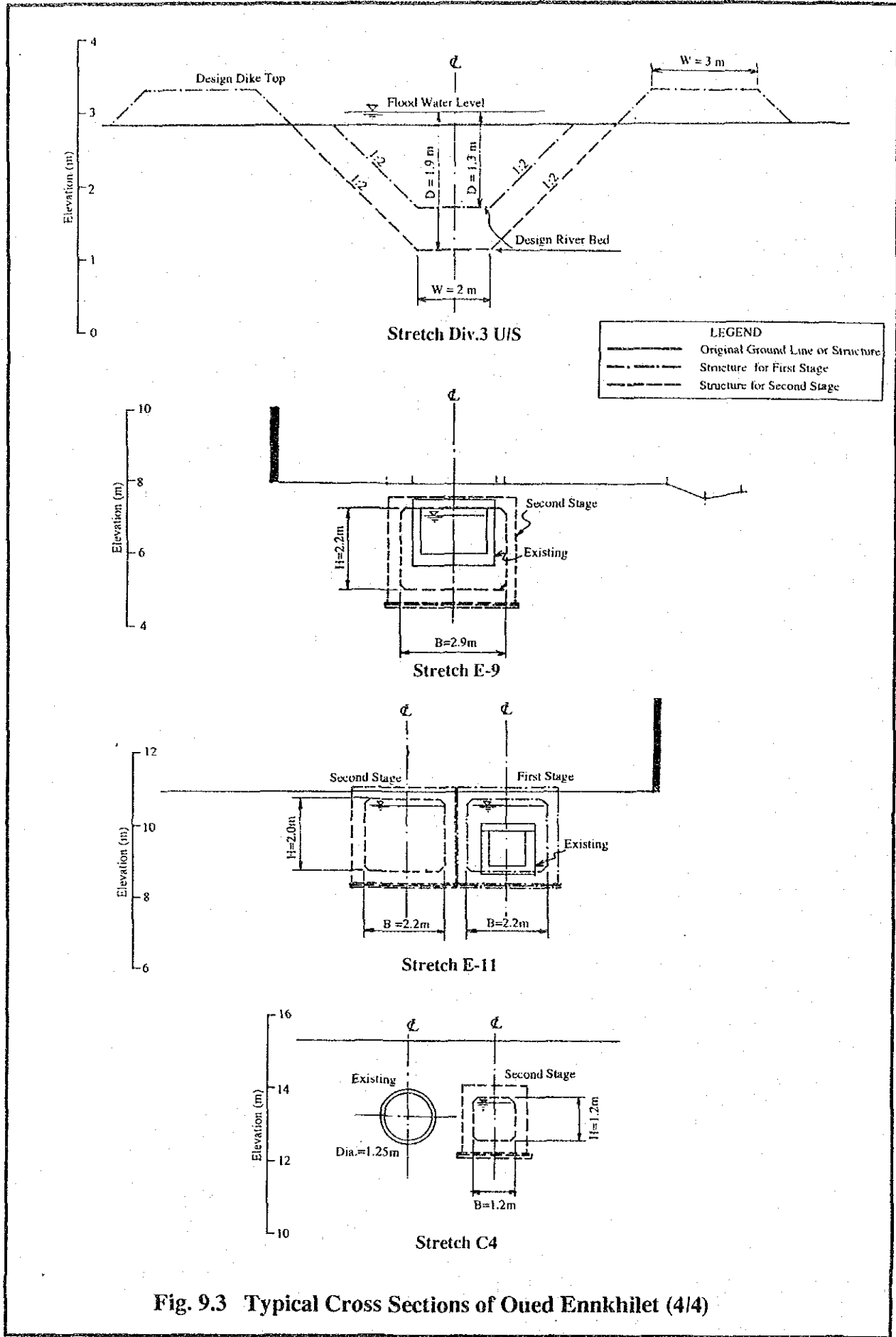
**Fig. 9.3 Typical Cross Sections of Oued Ennkhilet (2/4)**

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LEGEND	
—————	Original Ground Line or Structure
- - - - -	Structure for First Stage
· · · · ·	Structure for Second Stage

Fig. 9.3 Typical Cross Sections of Oued Enkhilet (3/4)



**Fig. 9.3 Typical Cross Sections of Oued Enkhilet (4/4)**

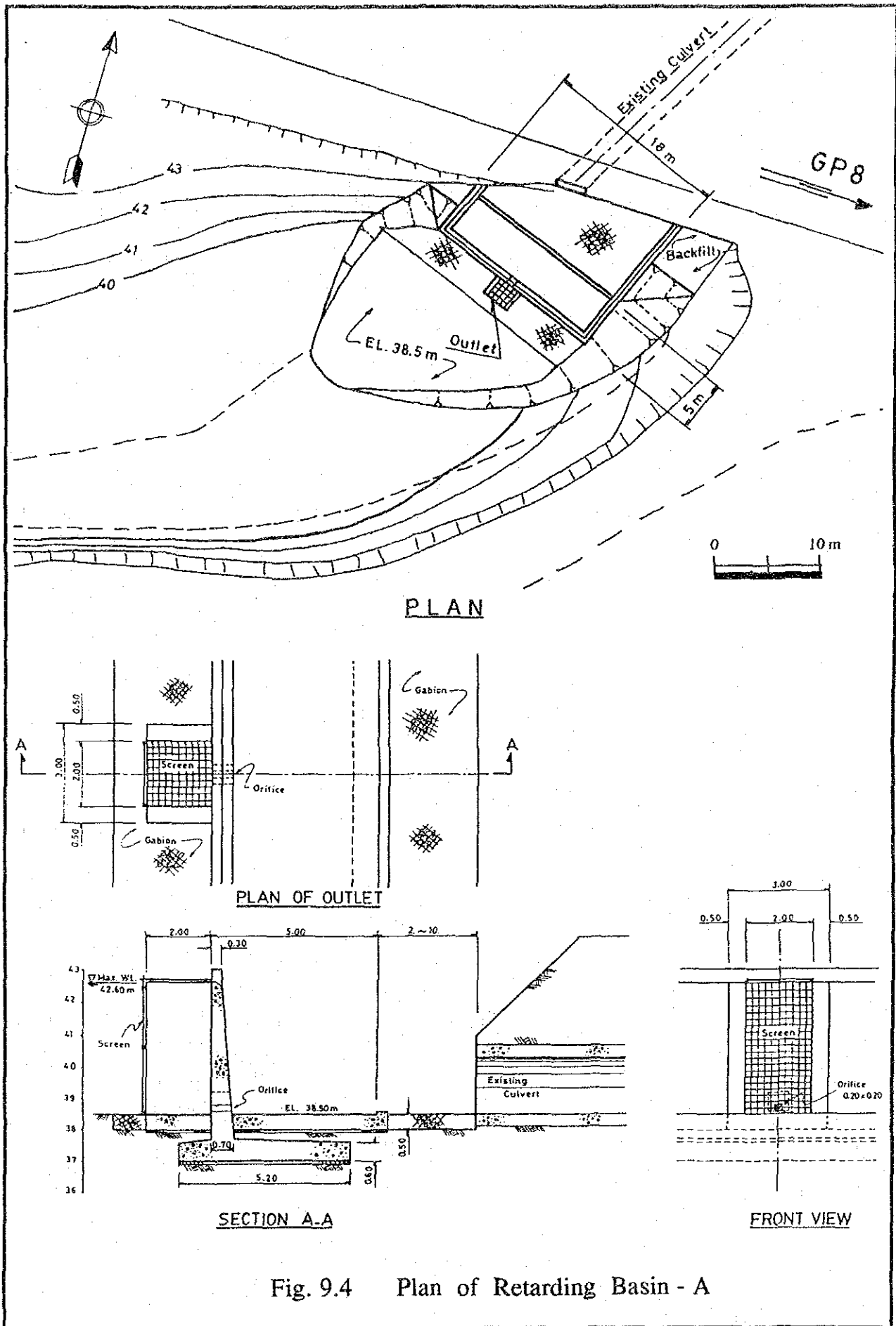
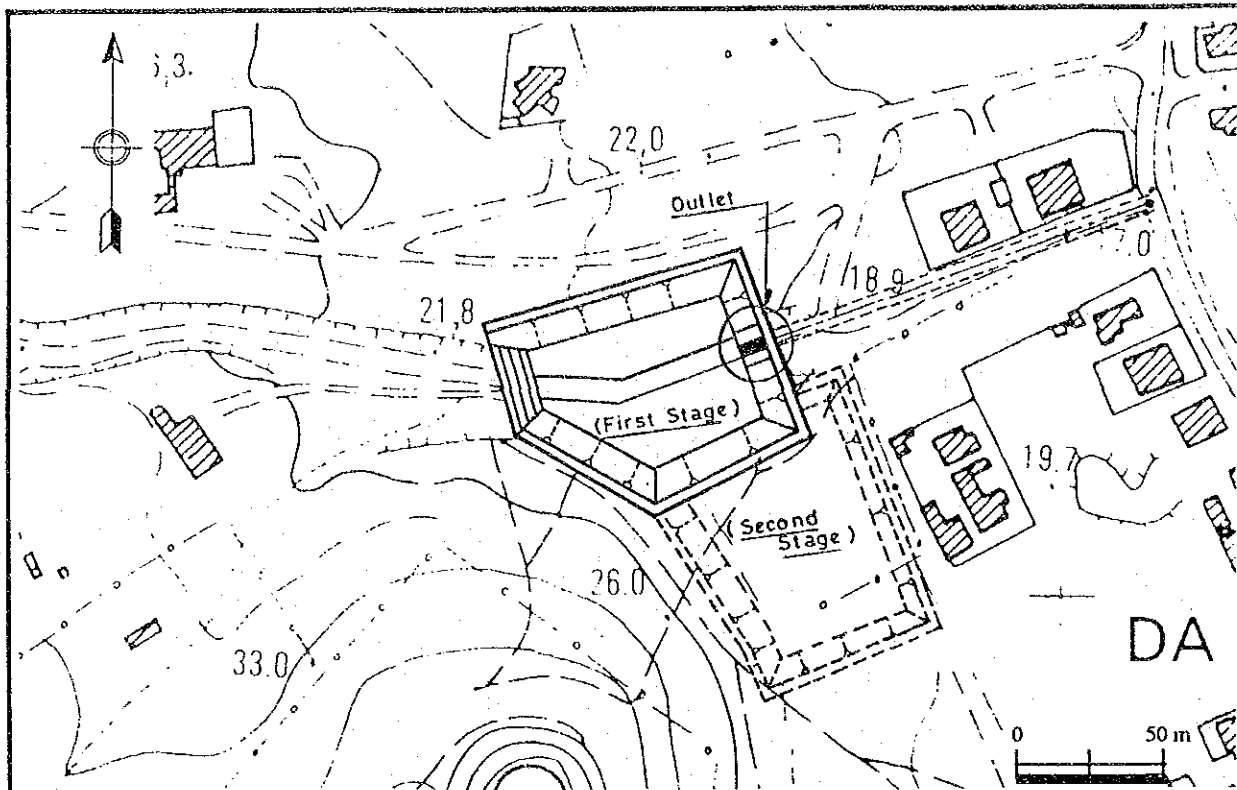
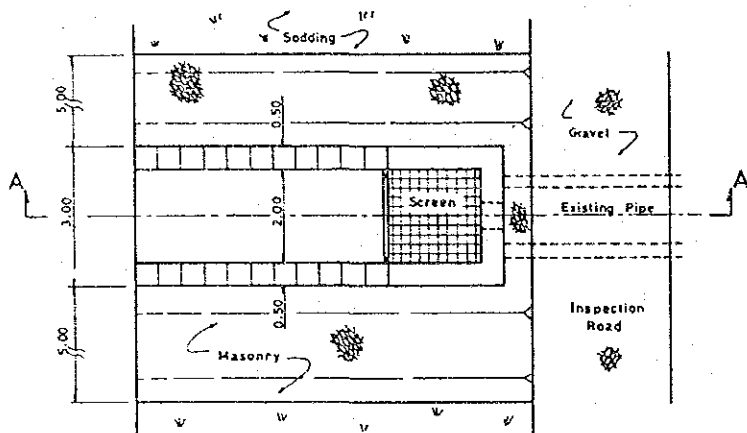


Fig. 9.4 Plan of Retarding Basin - A

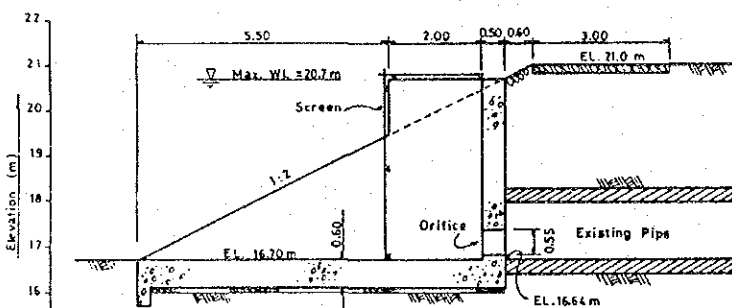
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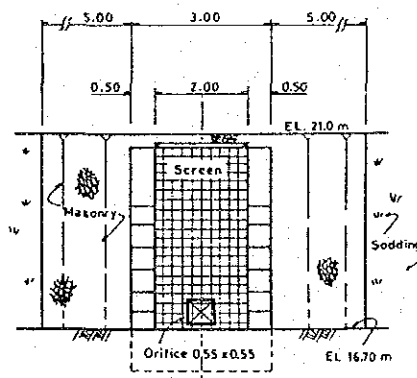
PLAN



PLAN OF OUTLET

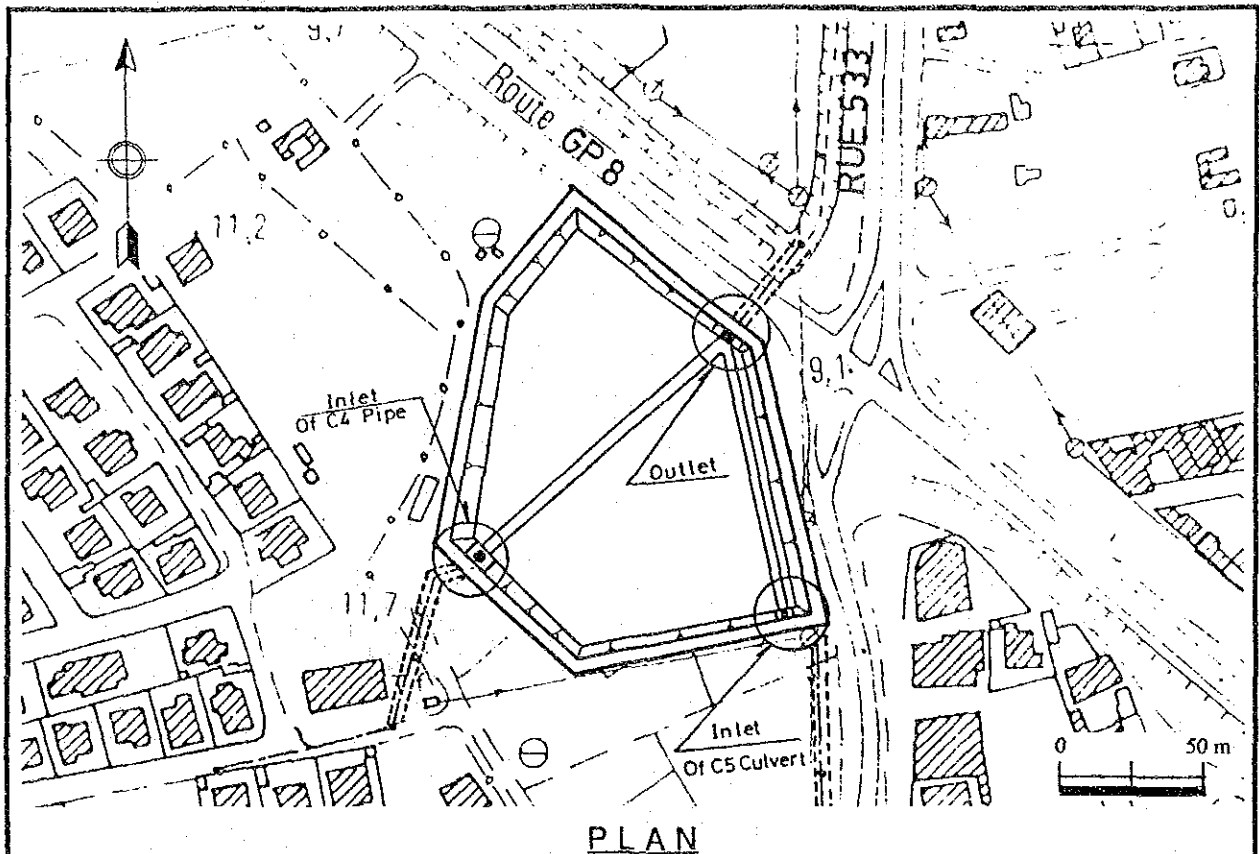


SECTION A-A

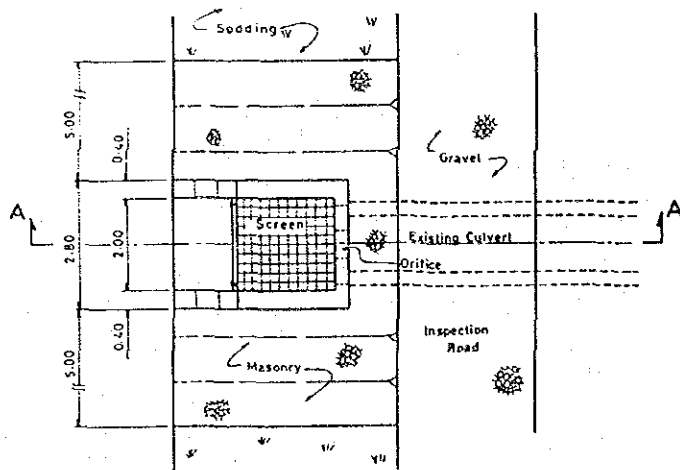


FRONT VIEW

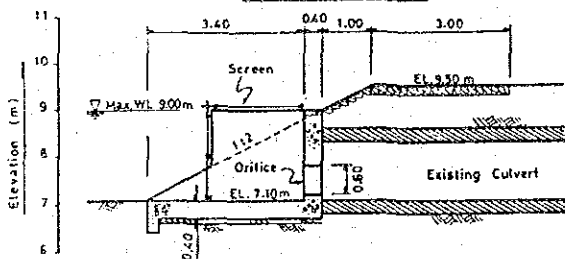
Fig. 9.5 Plan of Retarding Basin - G



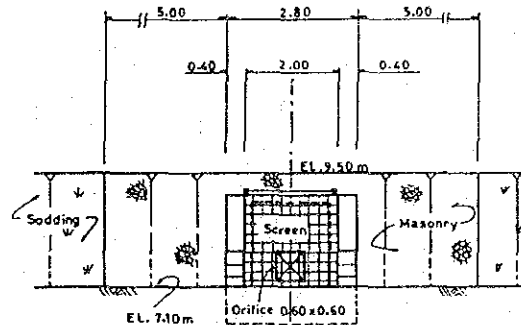
PLAN



PLAN OF OUTLET



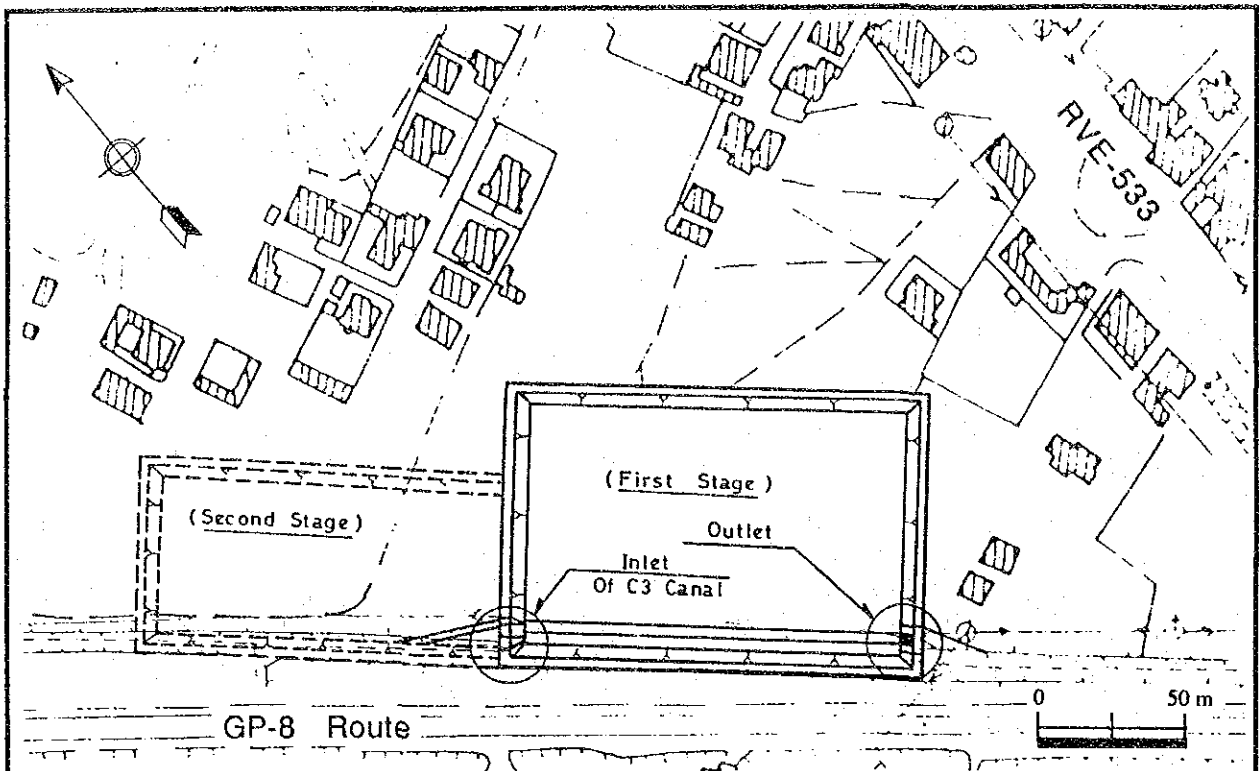
SECTION A-A



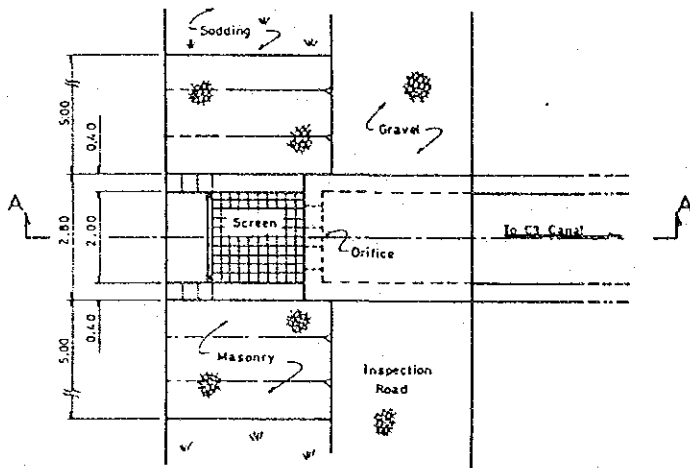
FRONT VIEW

Fig. 9.6 Plan of Retarding Basin - I

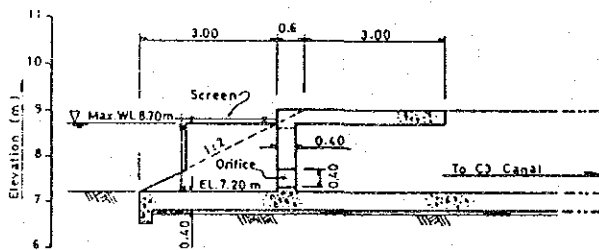




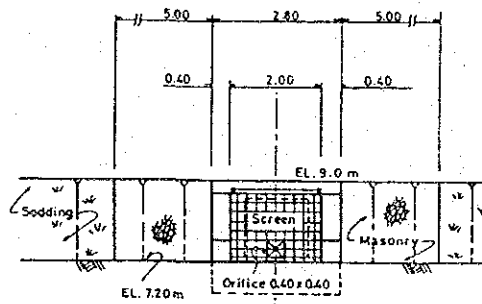
PLAN



PLAN OF OUTLET



SECTION A-A



FRONT VIEW

Fig. 9.7 Plan of Retarding Basin - J1

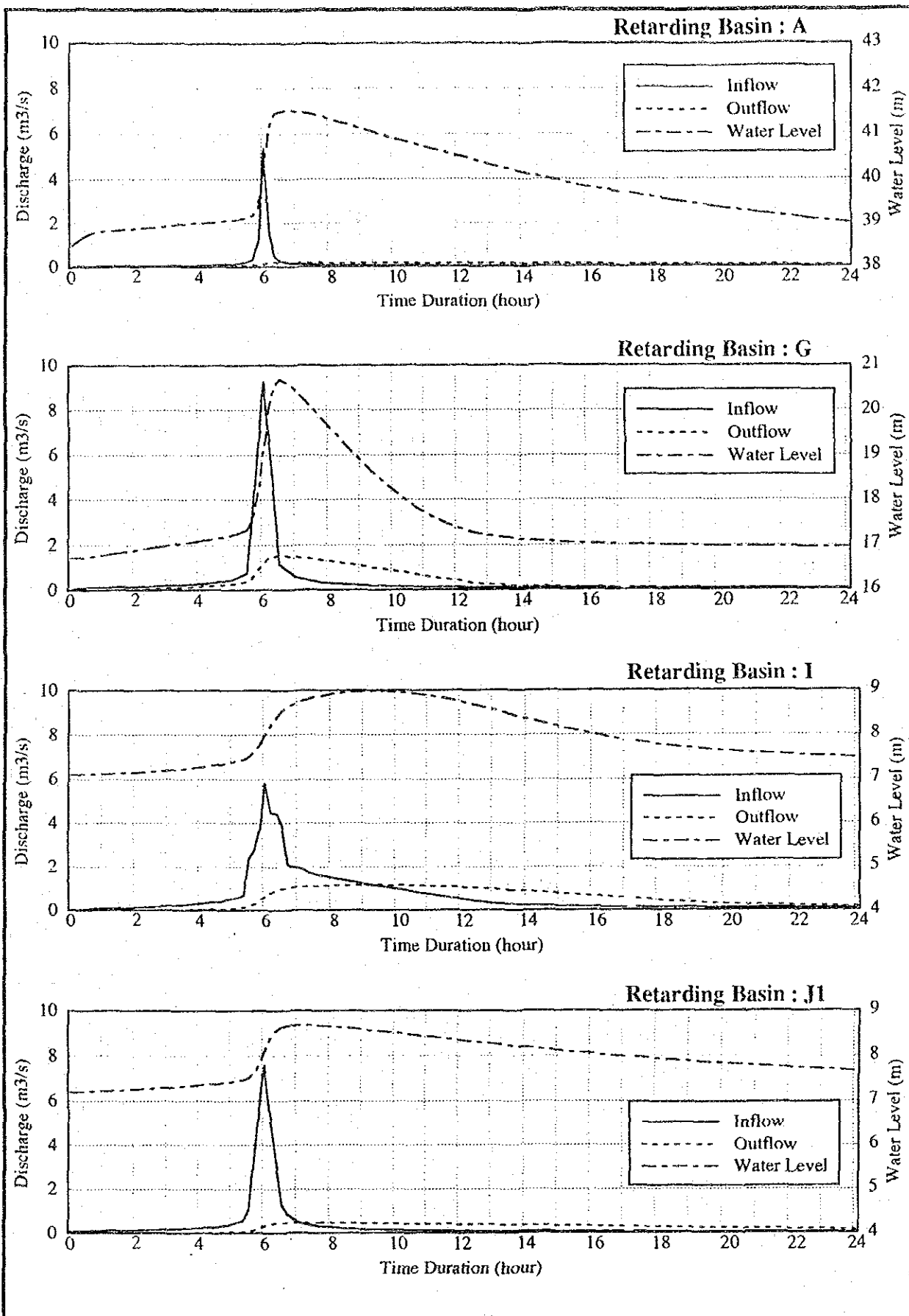


Fig. 9.8 Flood Routine Calculation for Retarding Basin (First Stage)

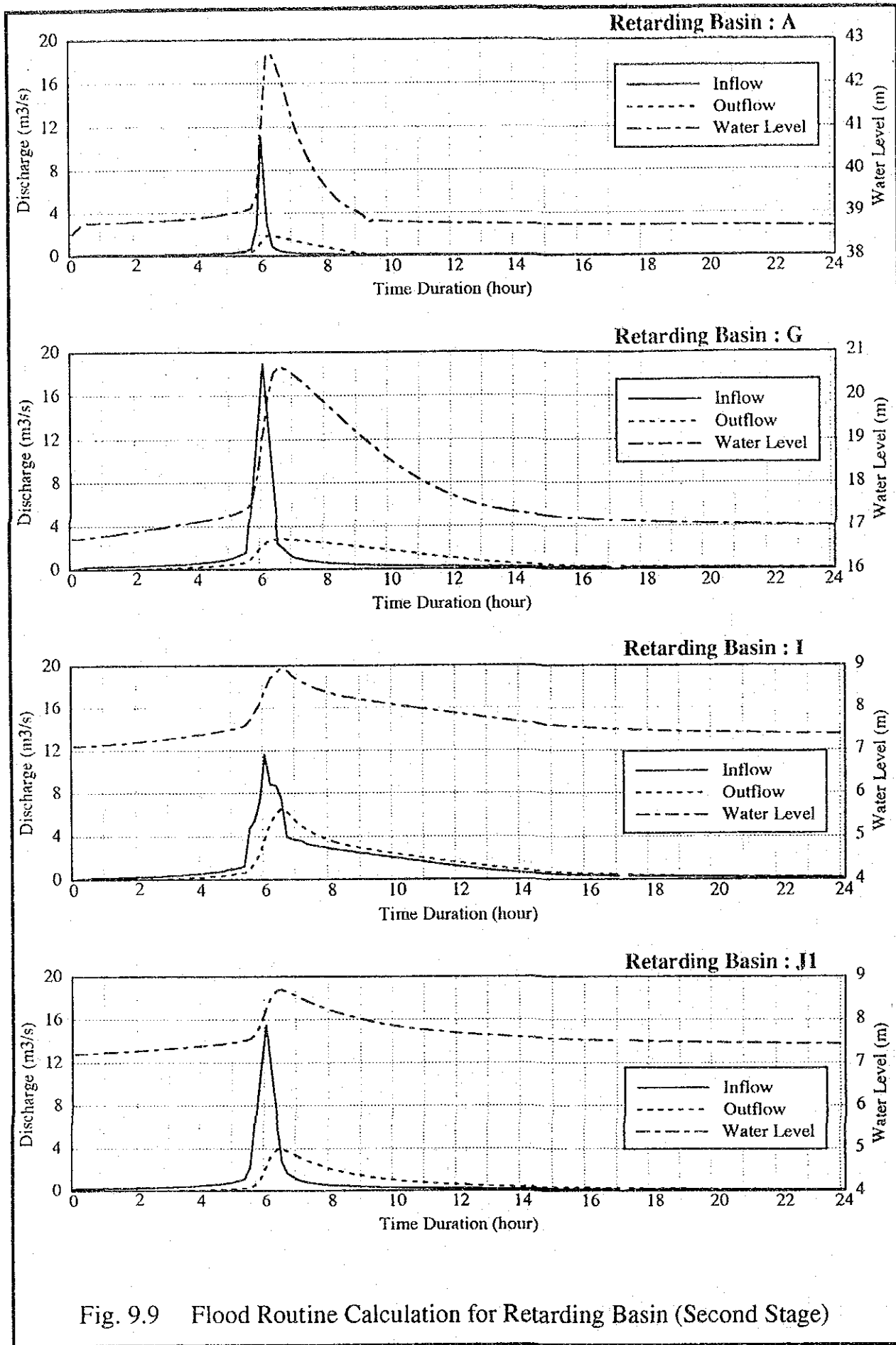
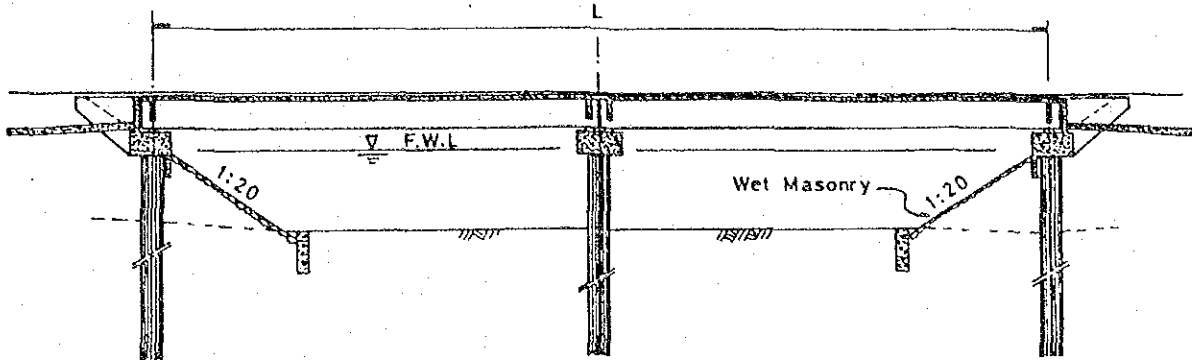
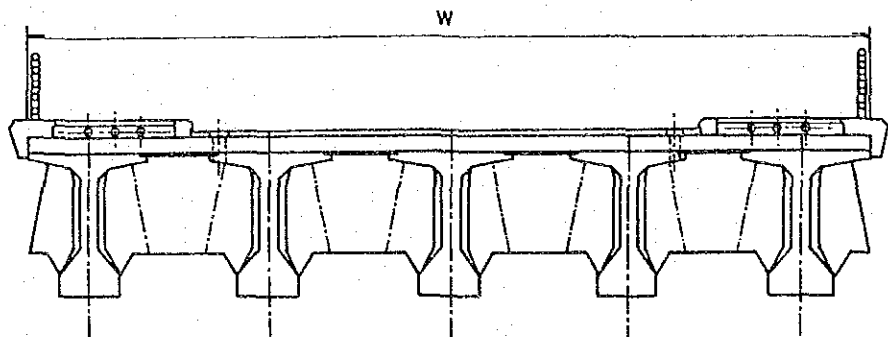


Fig. 9.9 Flood Routine Calculation for Retarding Basin (Second Stage)



PROFILE



CROSS SECTION

Location	Dimension		
	L (m)	W (m)	Nos. of Span
1. Oued Enkhilet (Main) at RVE-543 Road	50	12	2
2. Oued Enkhilet (Main) at RVE-533 Road	30	12	2
3. Diversion Channel No.3 at RVE-543 Road	43	12	2

Fig. 9.10 Dimension of New Bridge for Oued Enkhilet

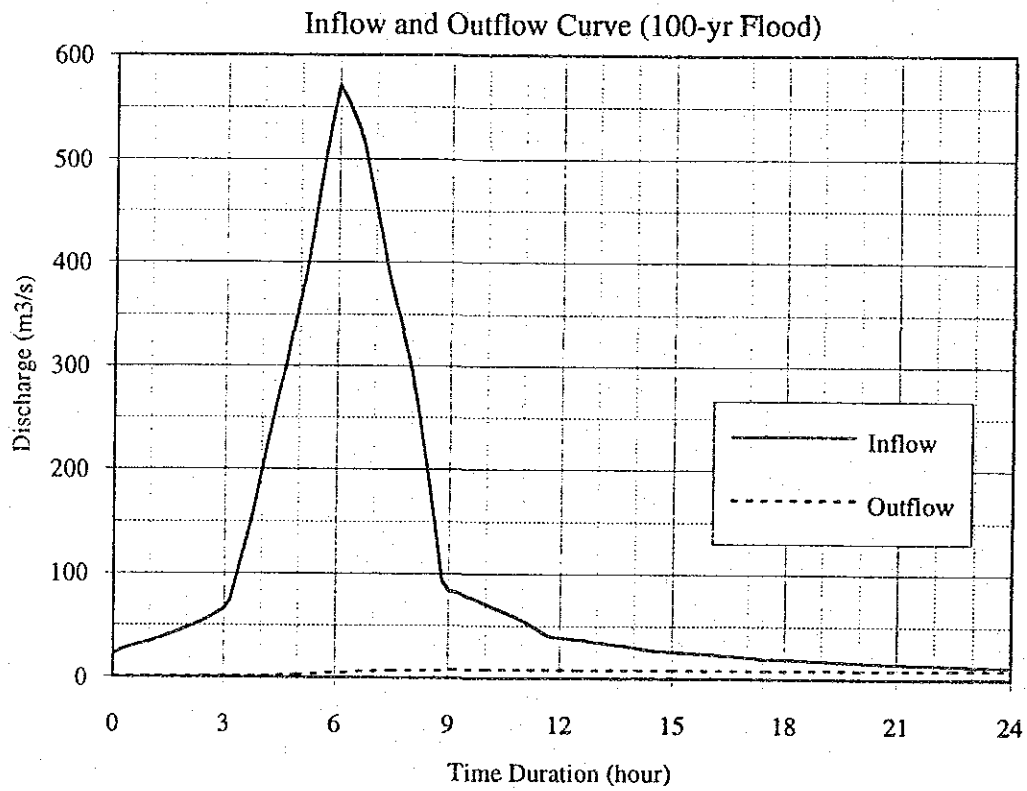
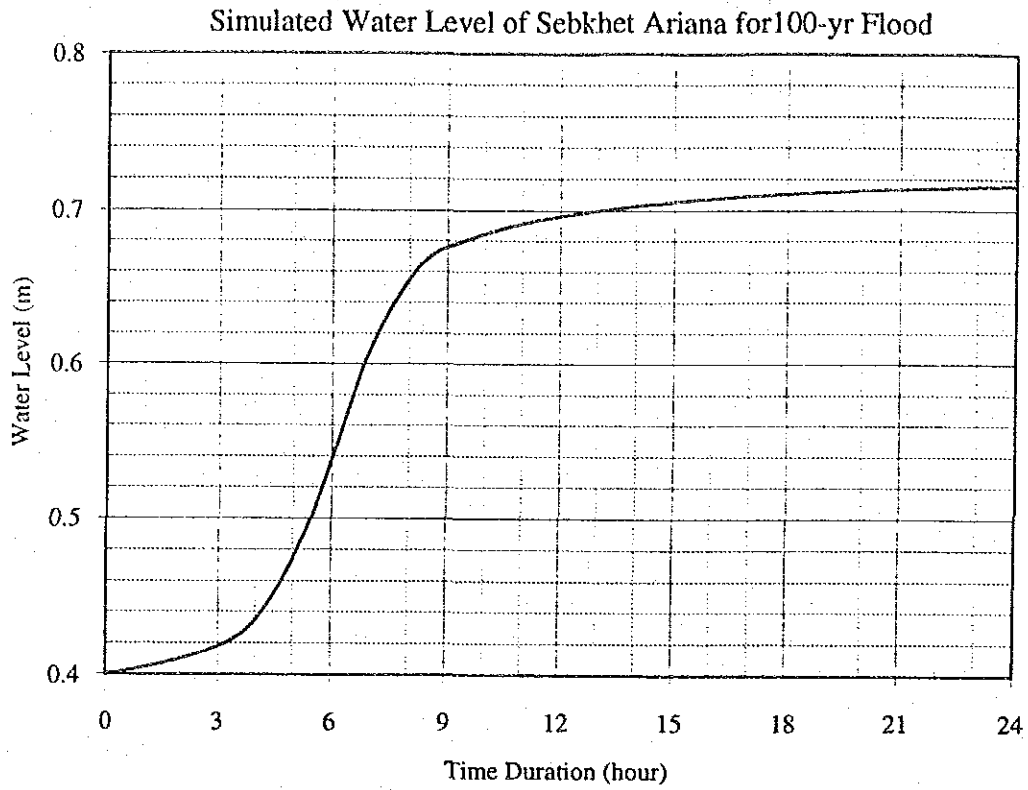
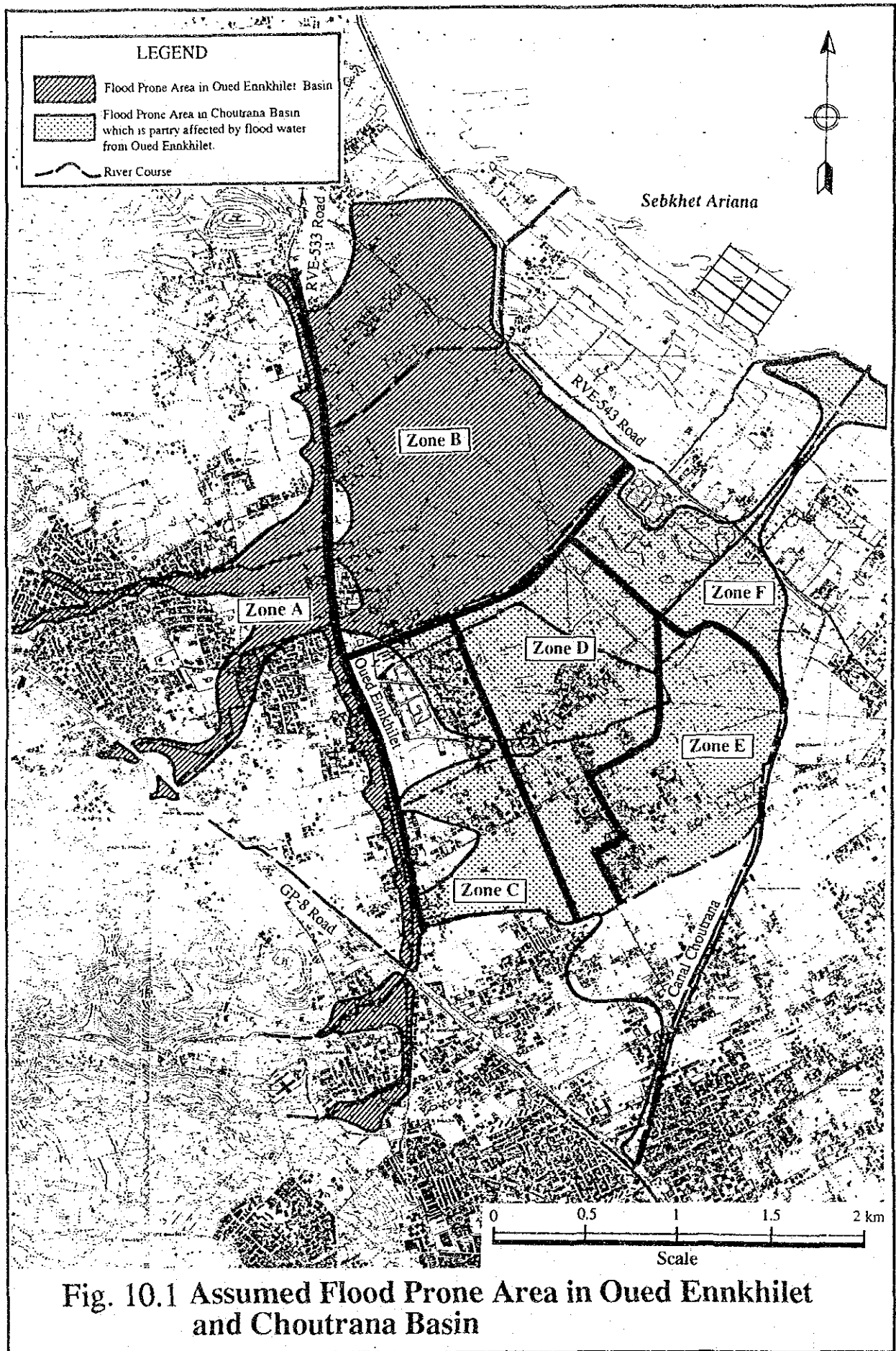


Fig. 9.11 Result of Flood Routine Simulation on Sebkheth Ariana

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