

Fig. IV-5-7 General Layout of Dams in Qda Quirio

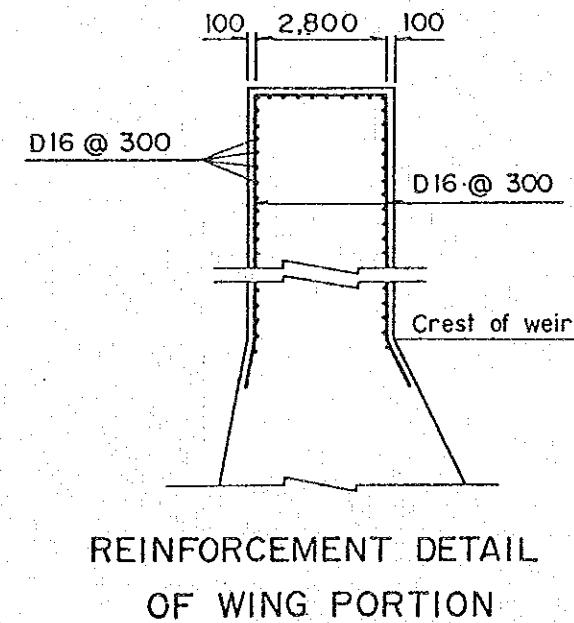
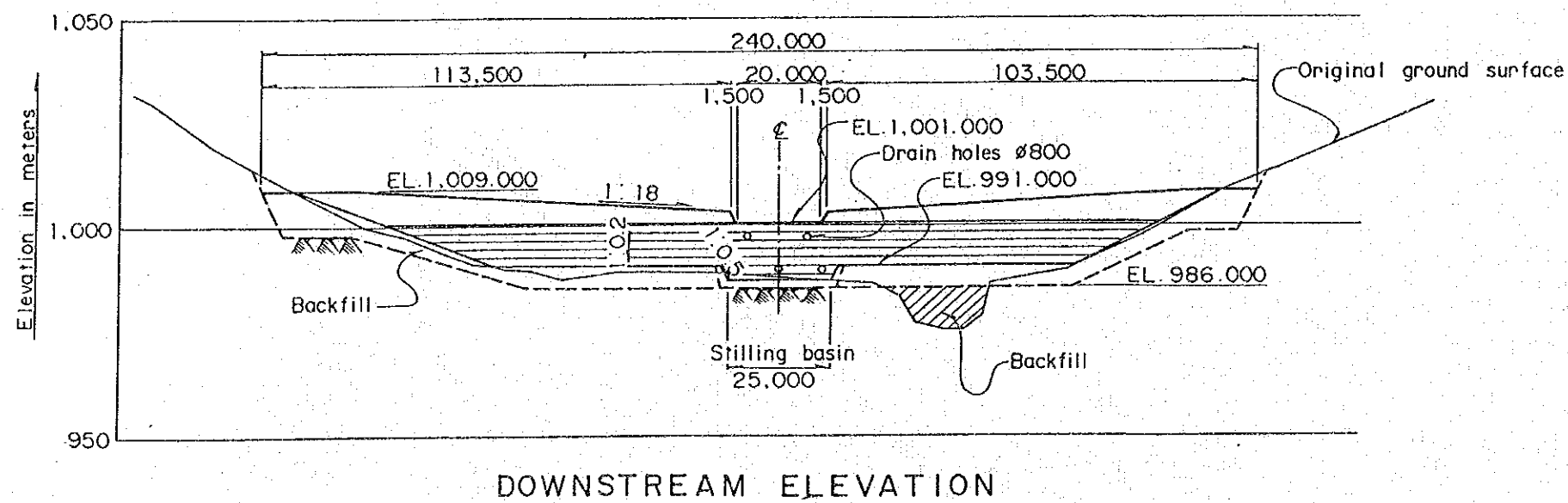
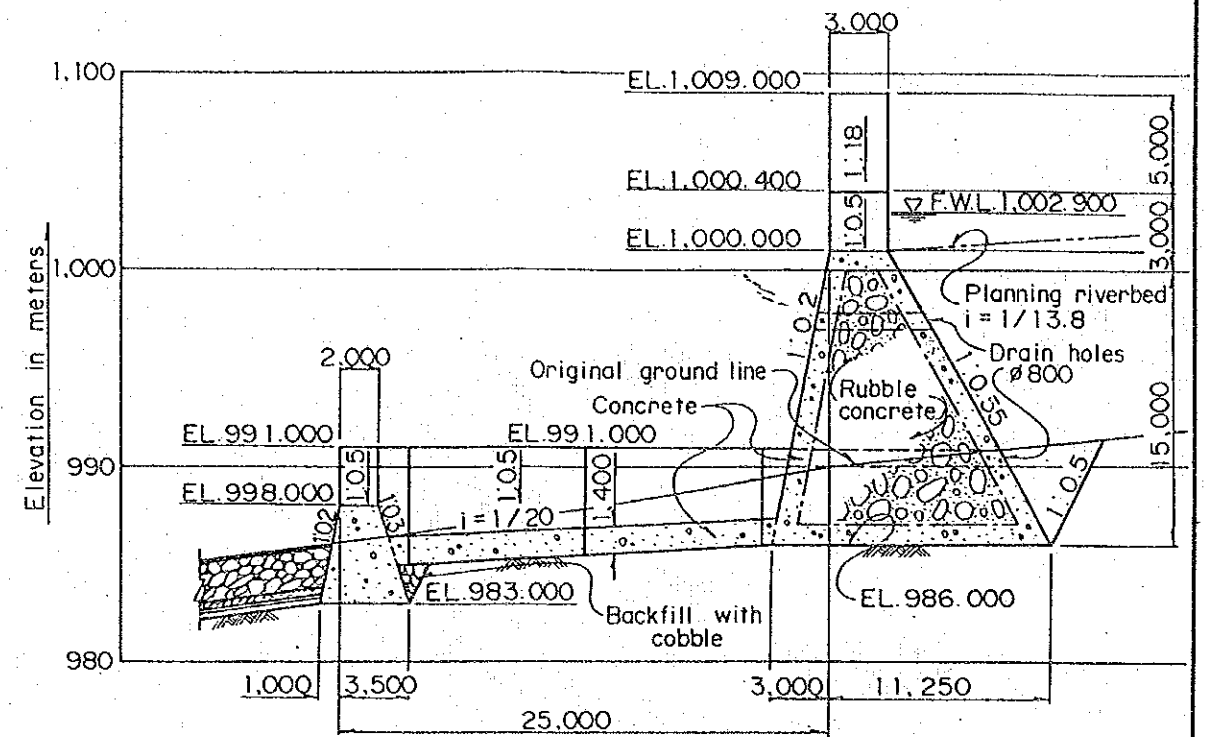
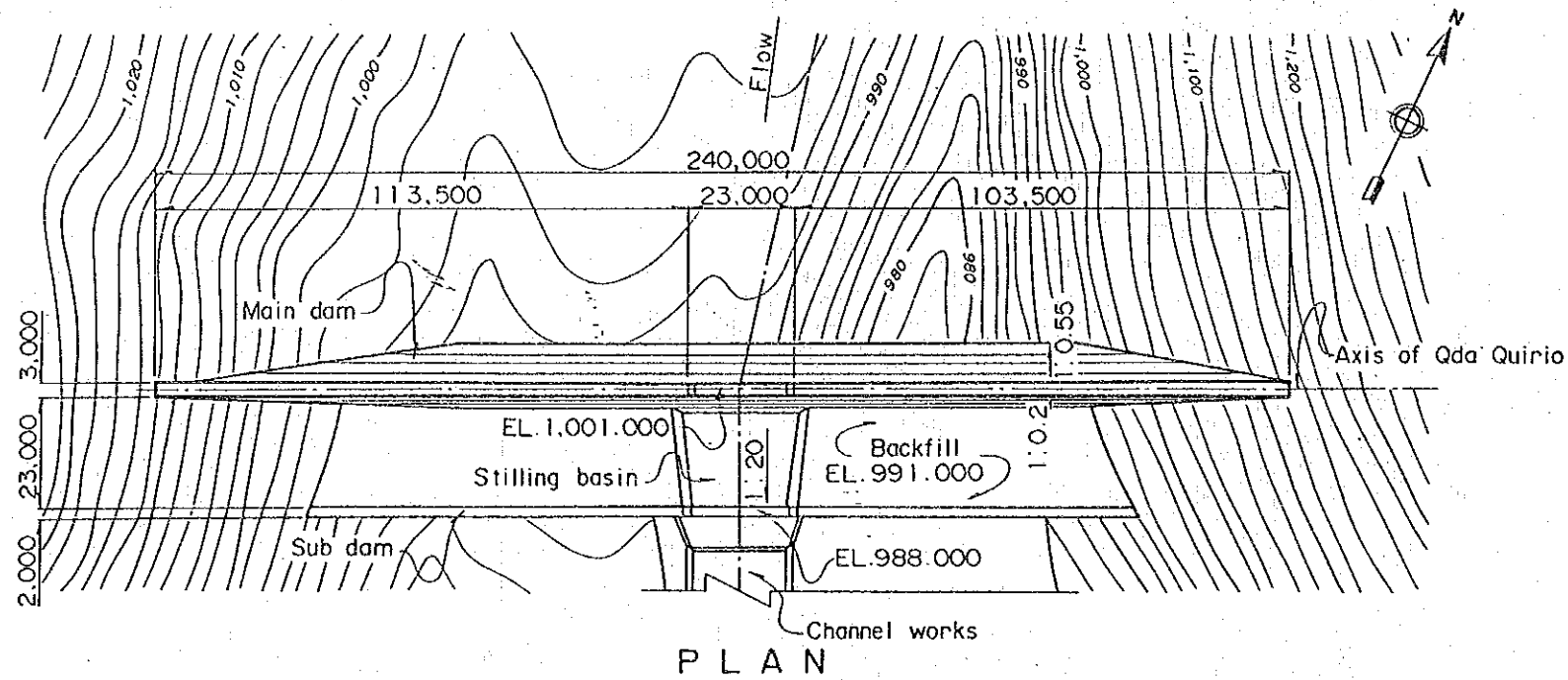


Fig. IV-5-8 Plan, Elevation and Section of Main Dam in Qda Quirio



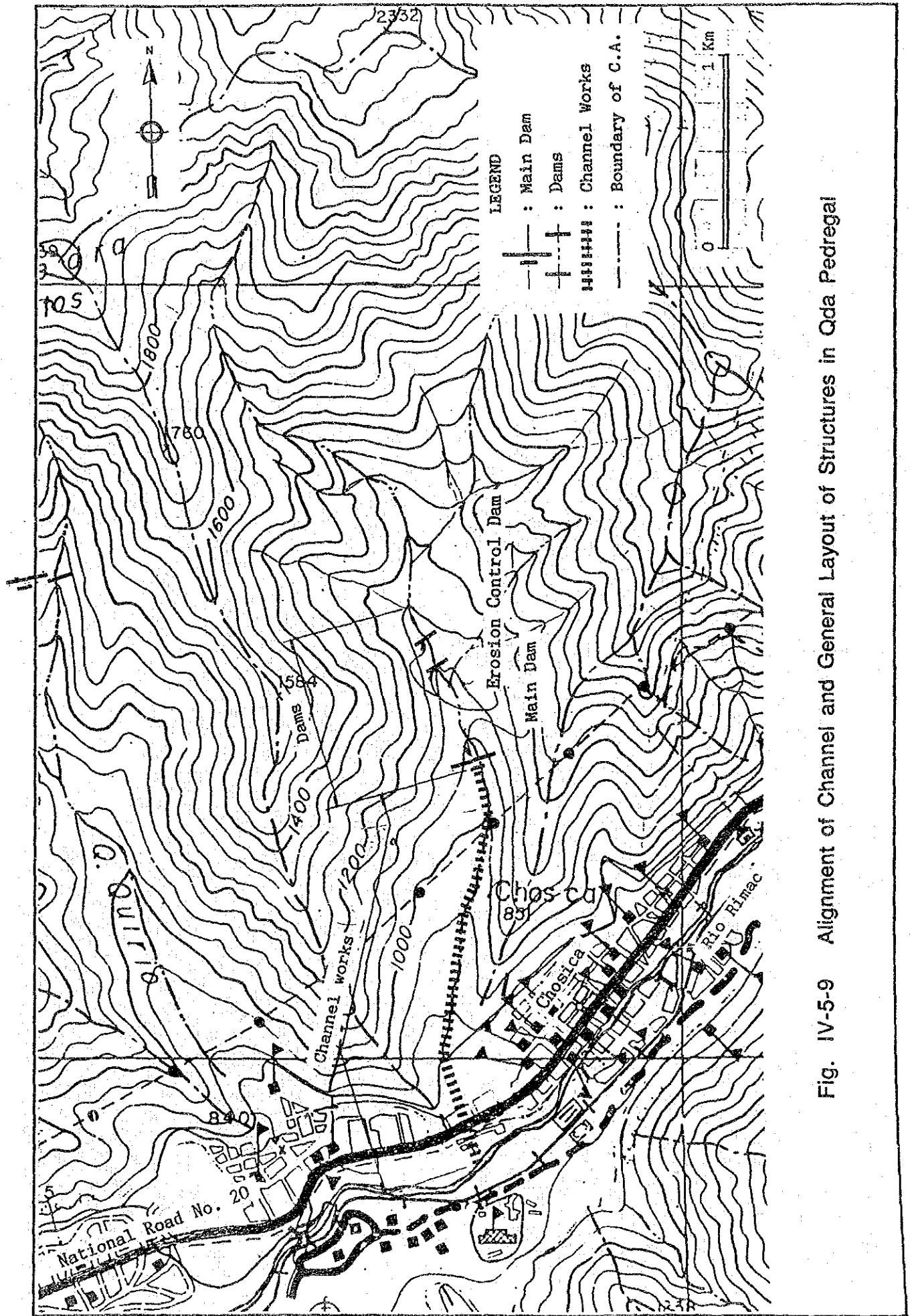


Fig. IV-5-9 Alignment of Channel and General Layout of Structures in Qda Pedregal



R-7 : Qda. Pedregal C.A = 10.6 km<sup>2</sup>

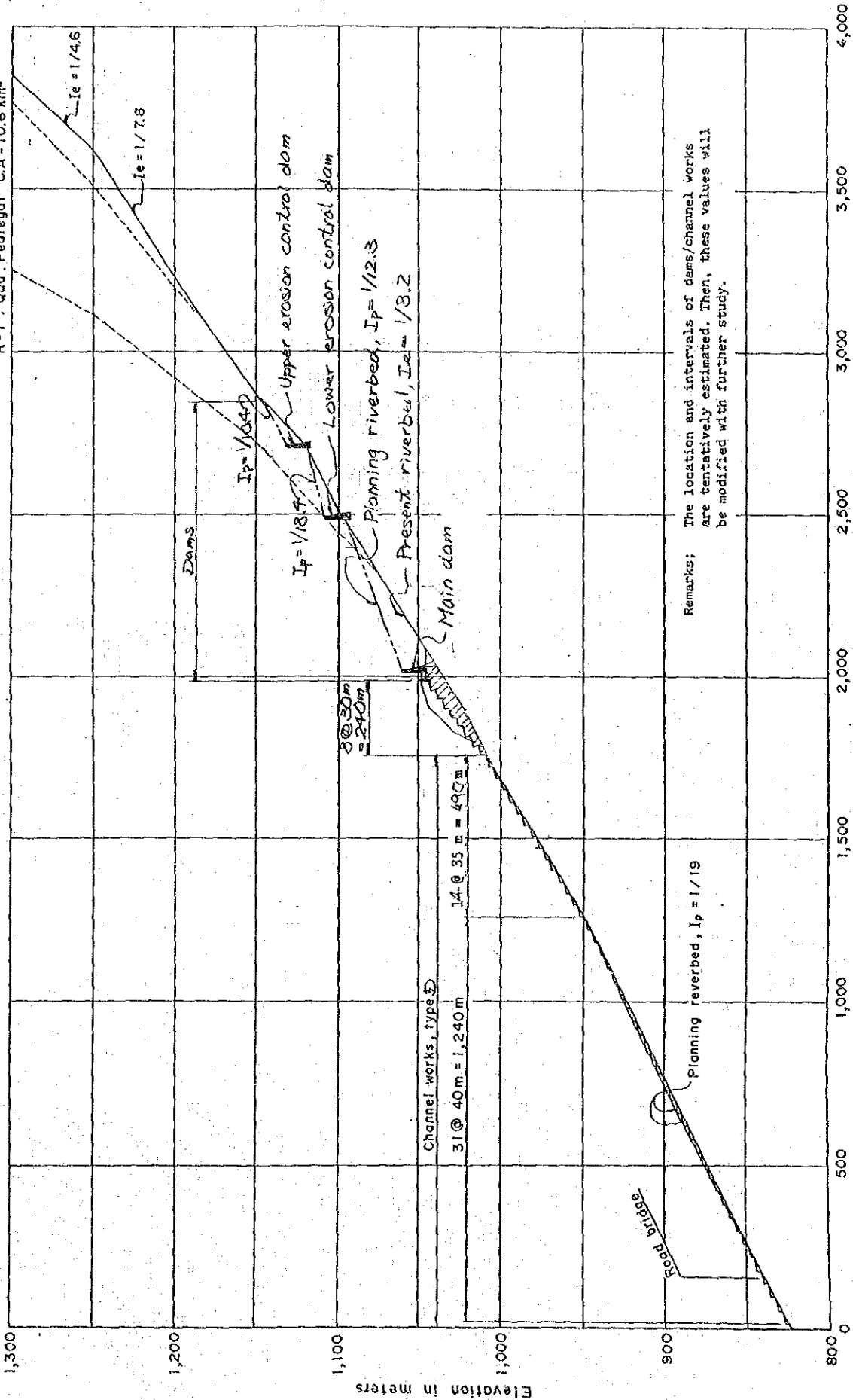


Fig. IV-5-10 Channel Profile and Location of Structures in Qda Pedregal

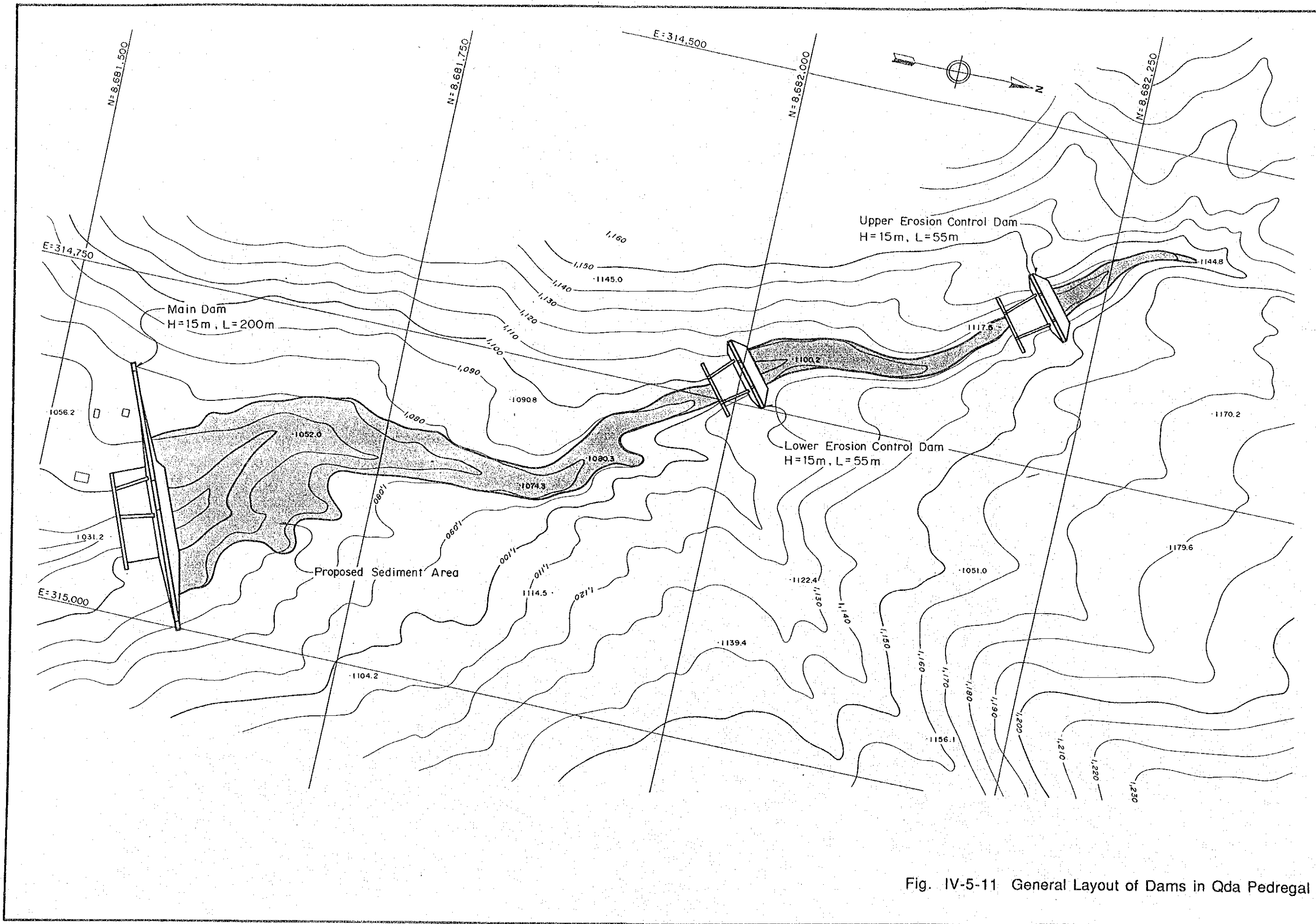


Fig. IV-5-11 General Layout of Dams in Qda Pedregal

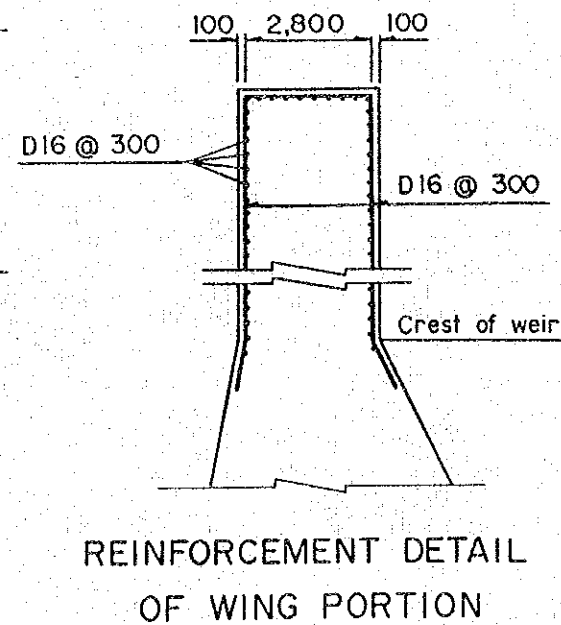
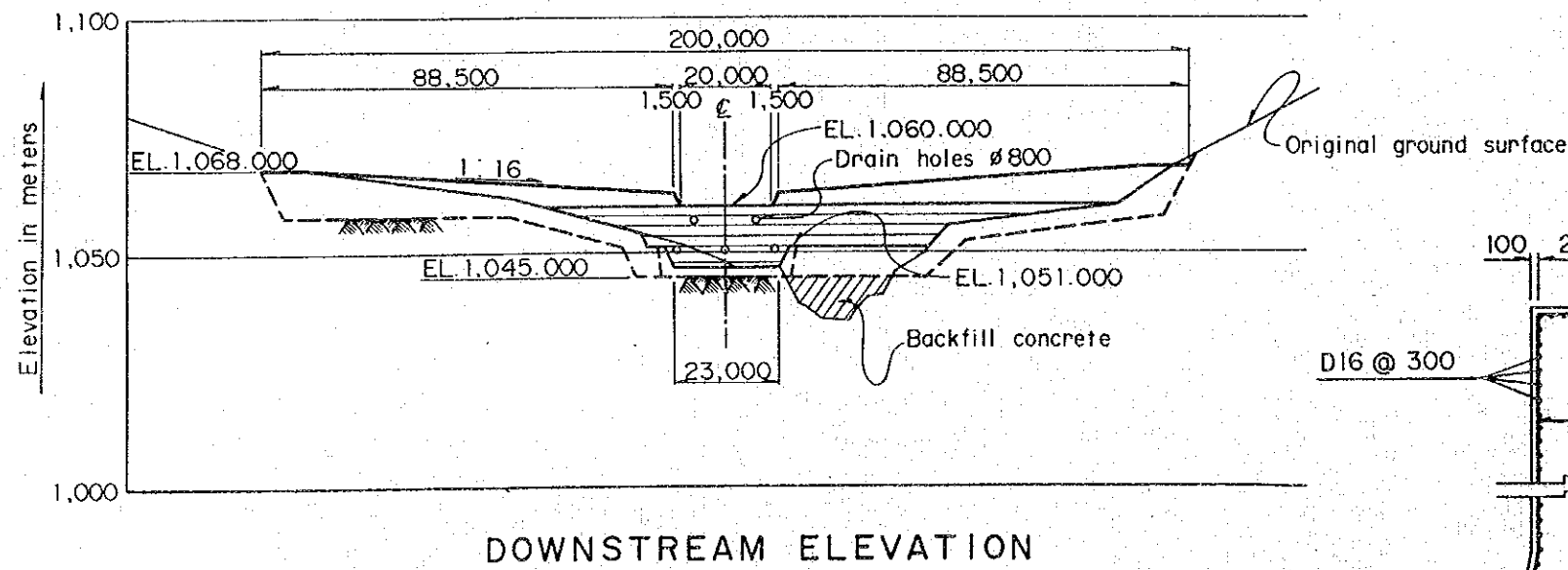
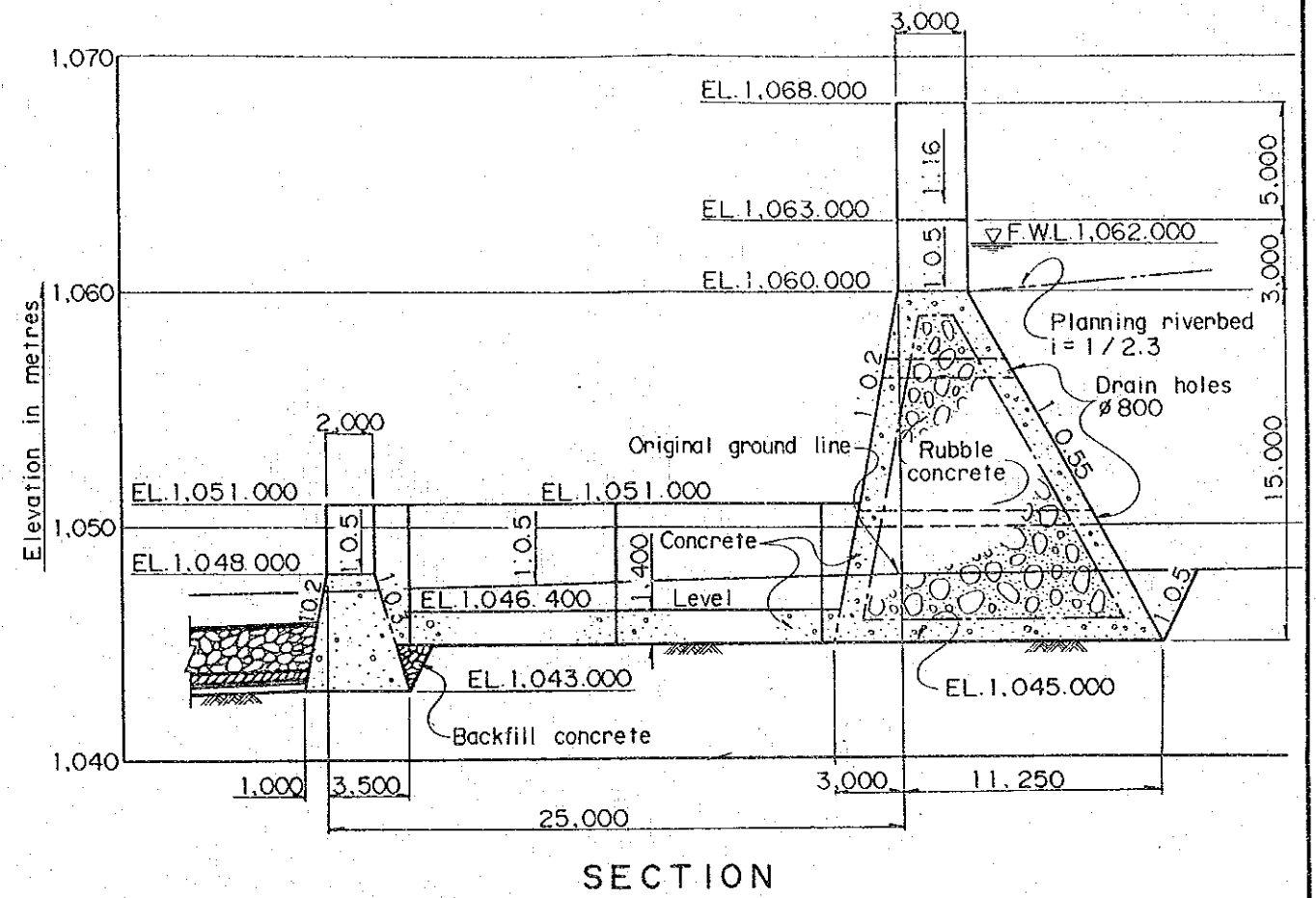
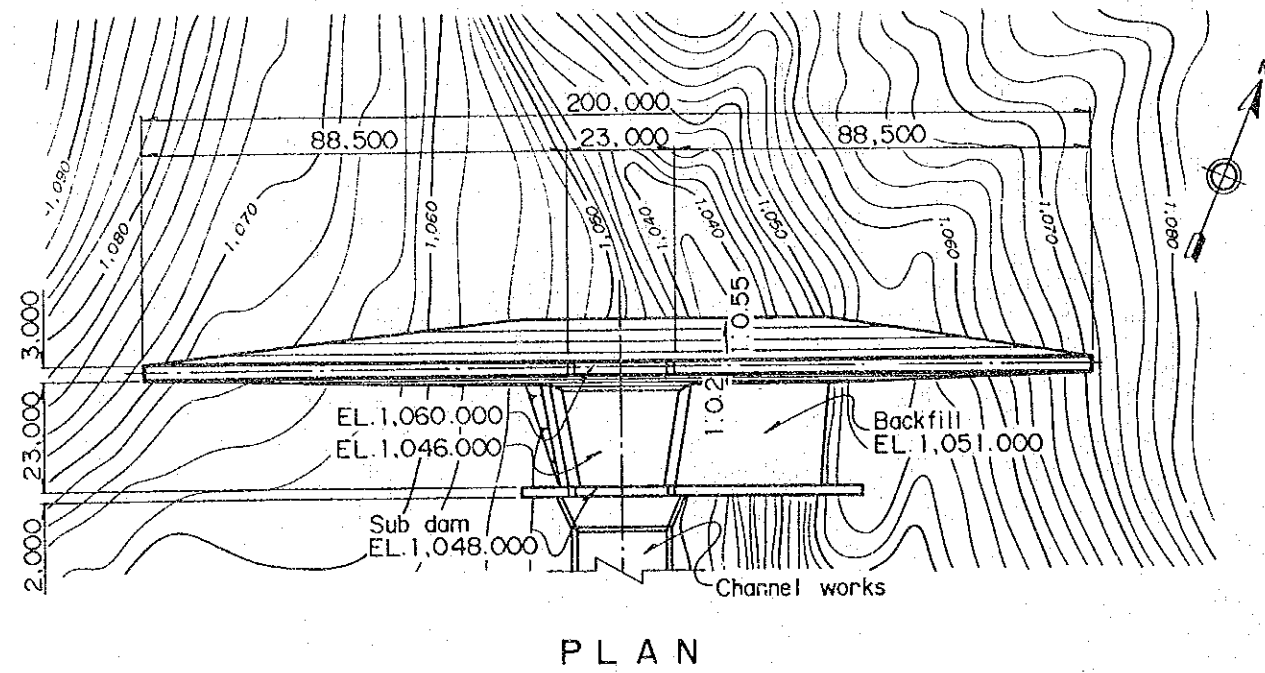


Fig. IV-5-12 Plan, Elevation and Section of Main Dam in Qda Pedregal





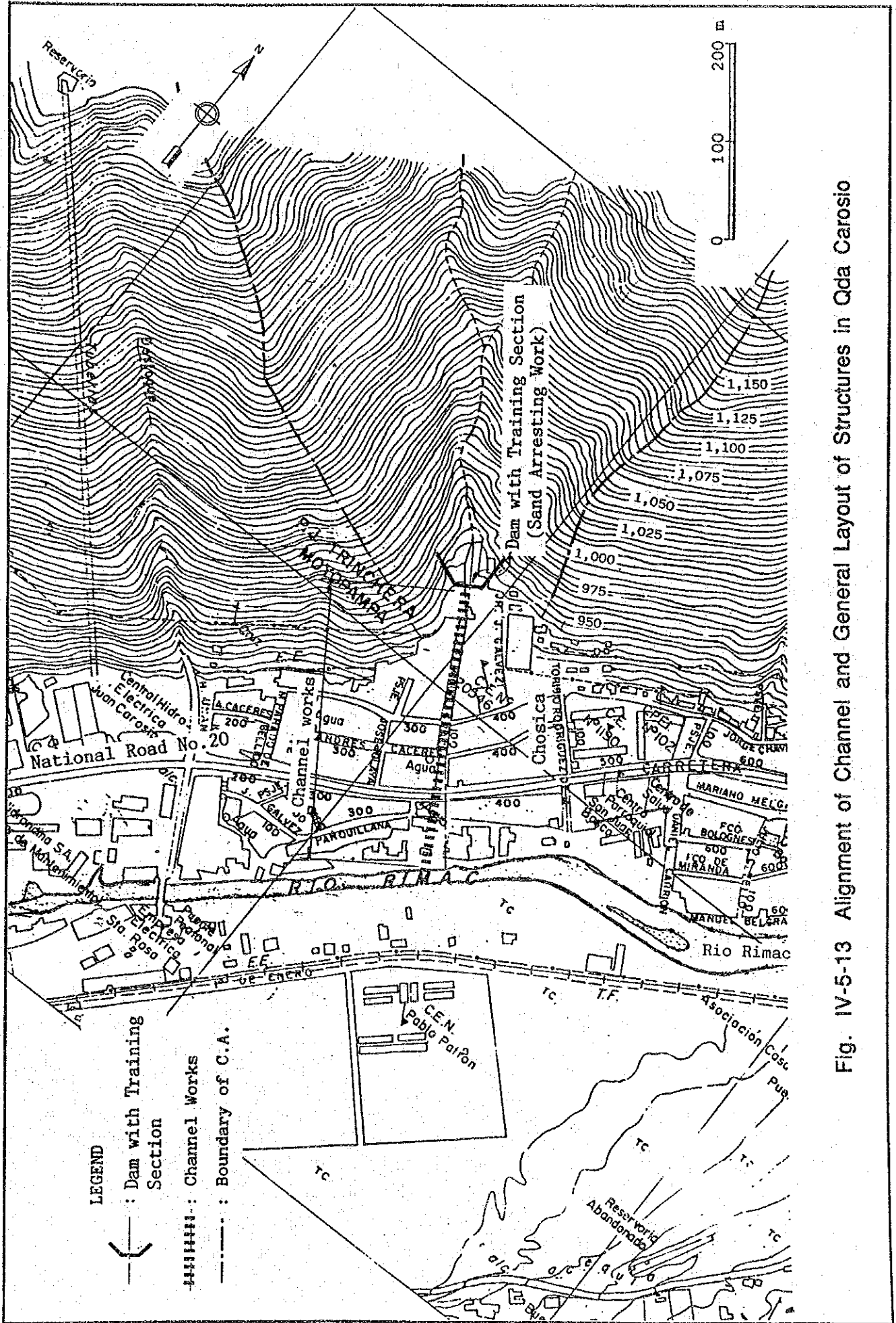


Fig. IV-5-13 Alignment of Channel and General Layout of Structures in Qda Carosio



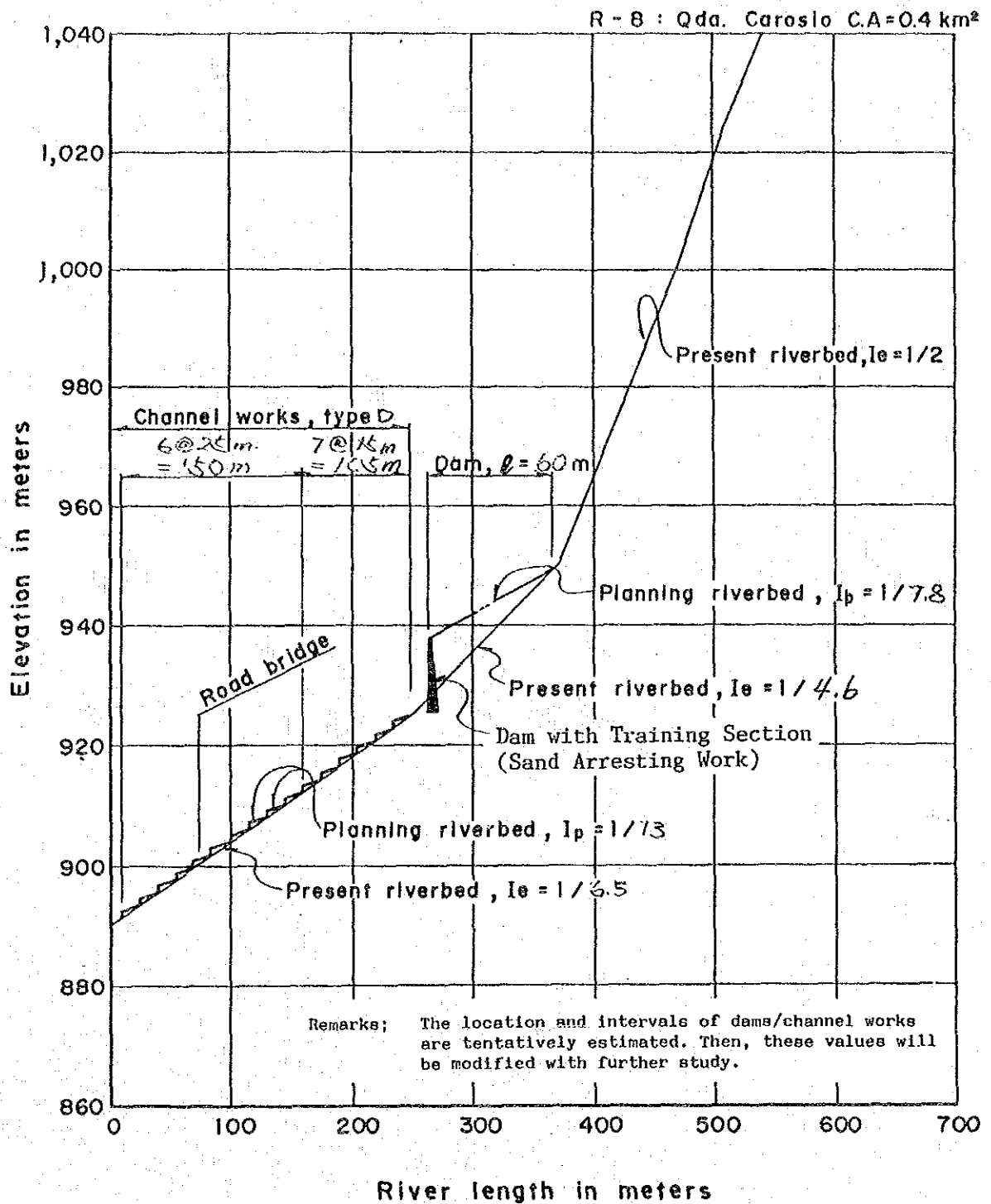


Fig. IV-5-14 Channel Profile and Location of Structures in Qda Carosio



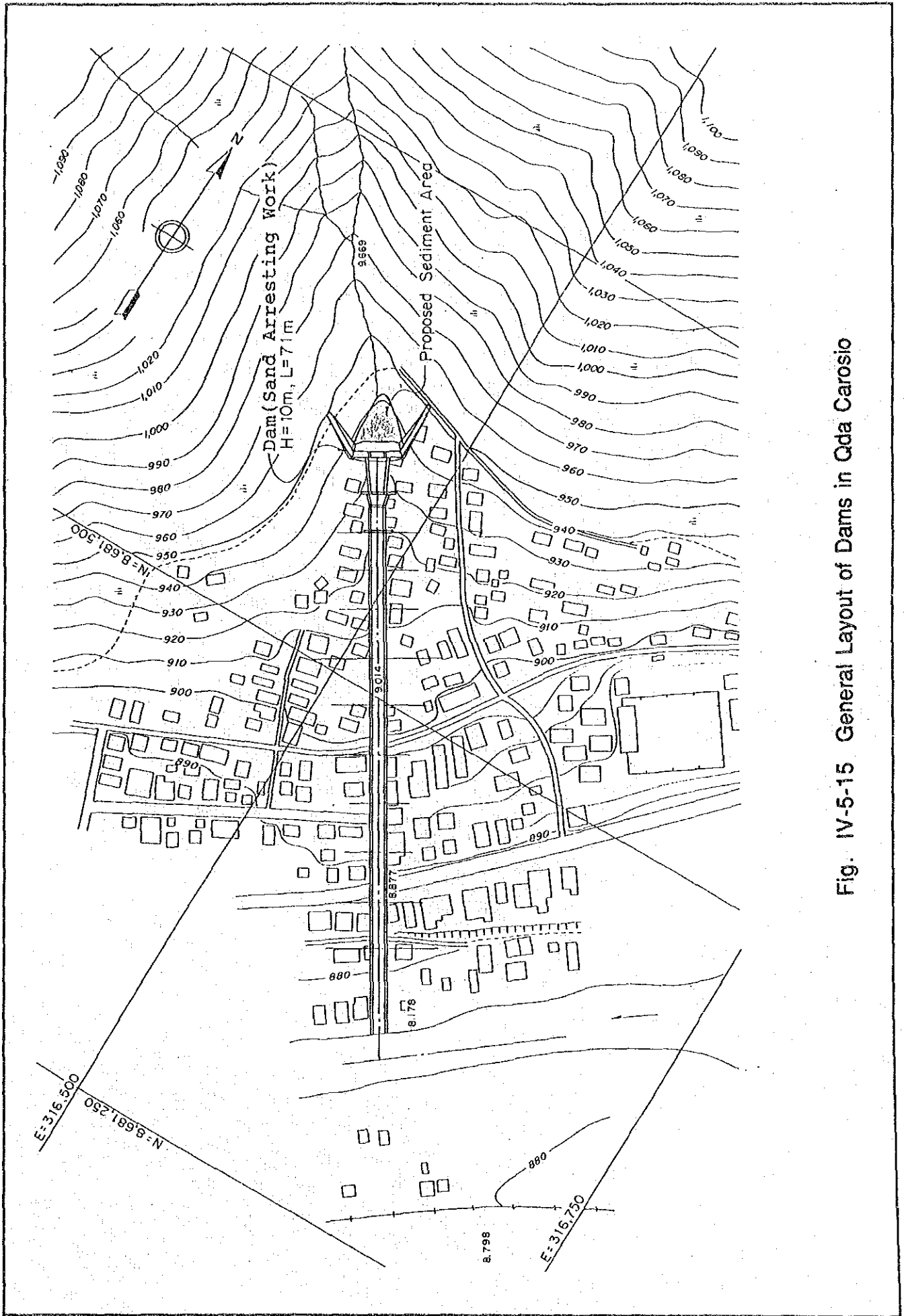
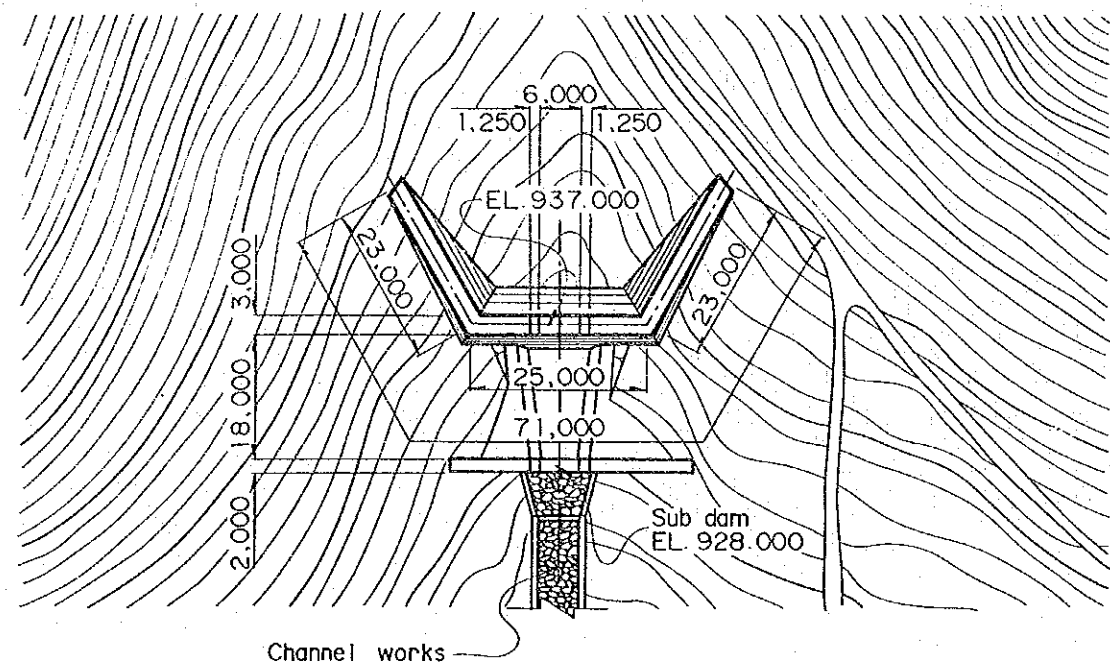
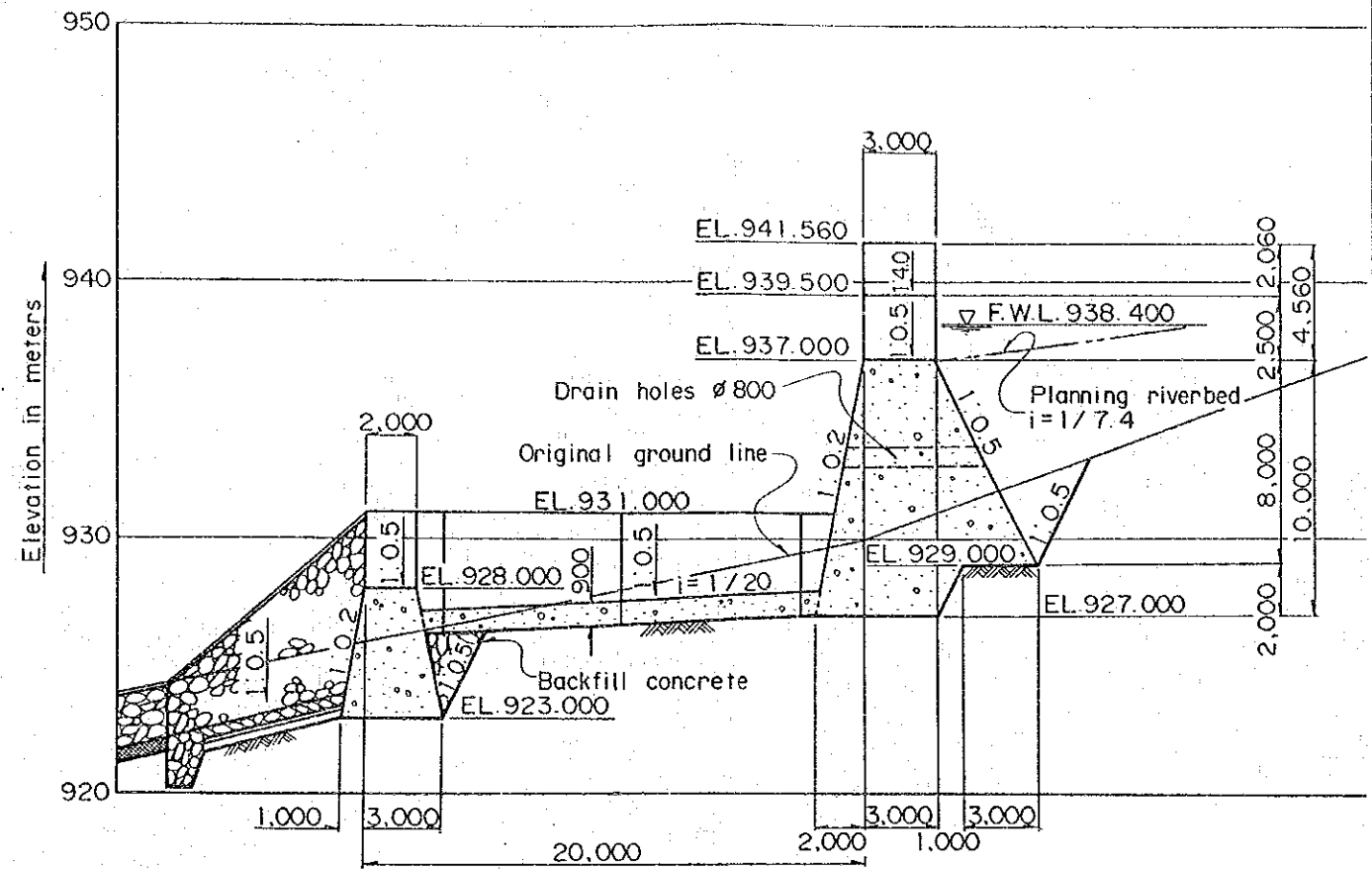


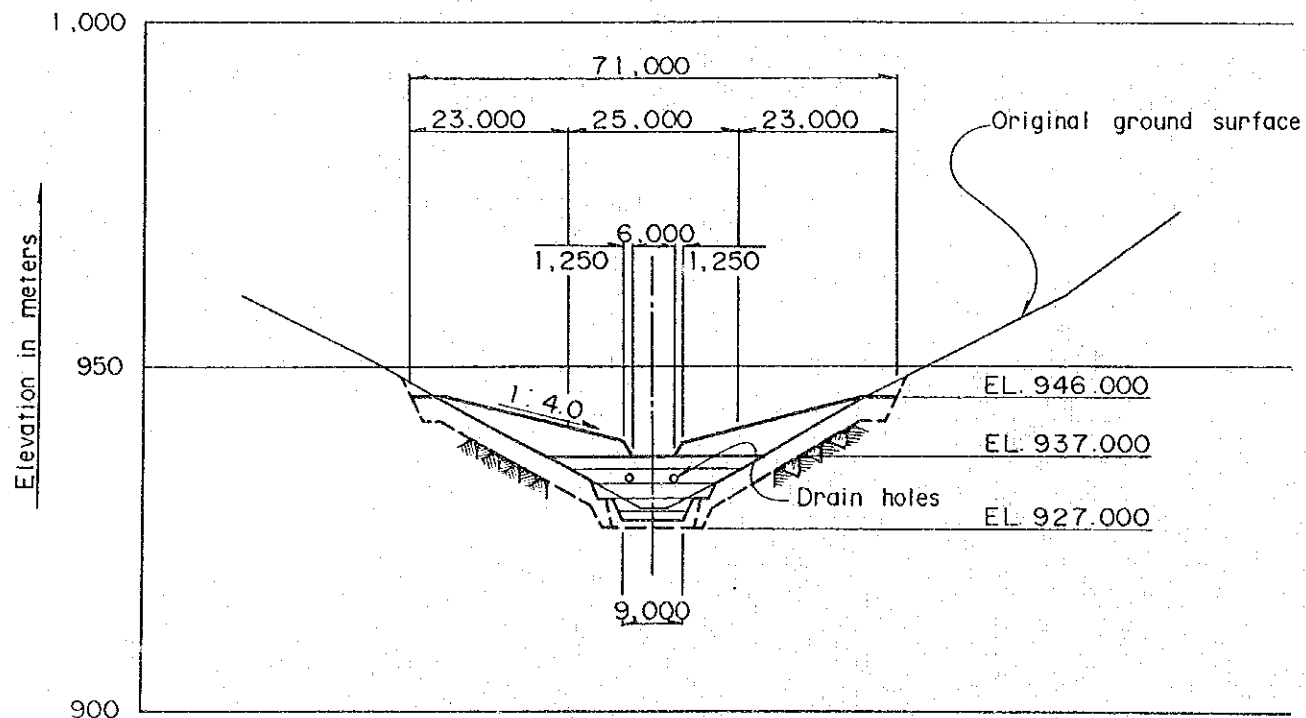
Fig. IV-5-15 General Layout of Dams in Qda Carosio



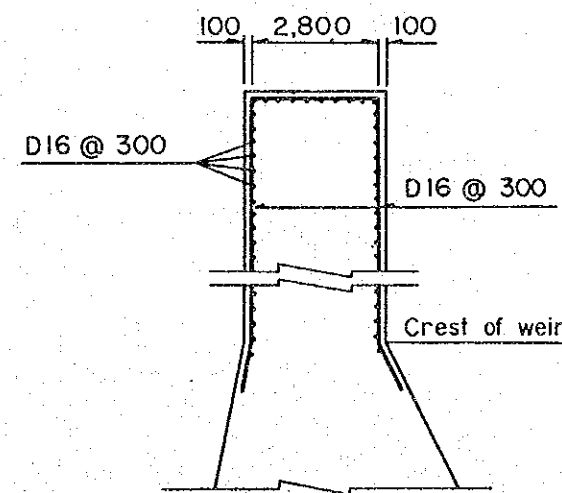
PLAN



SECTION



DOWNSTREAM ELEVATION



REINFORCEMENT DETAIL  
OF WING PORTION

Fig. IV-5-16 Plan, Elevation and Section of Dam in Qda Carosio





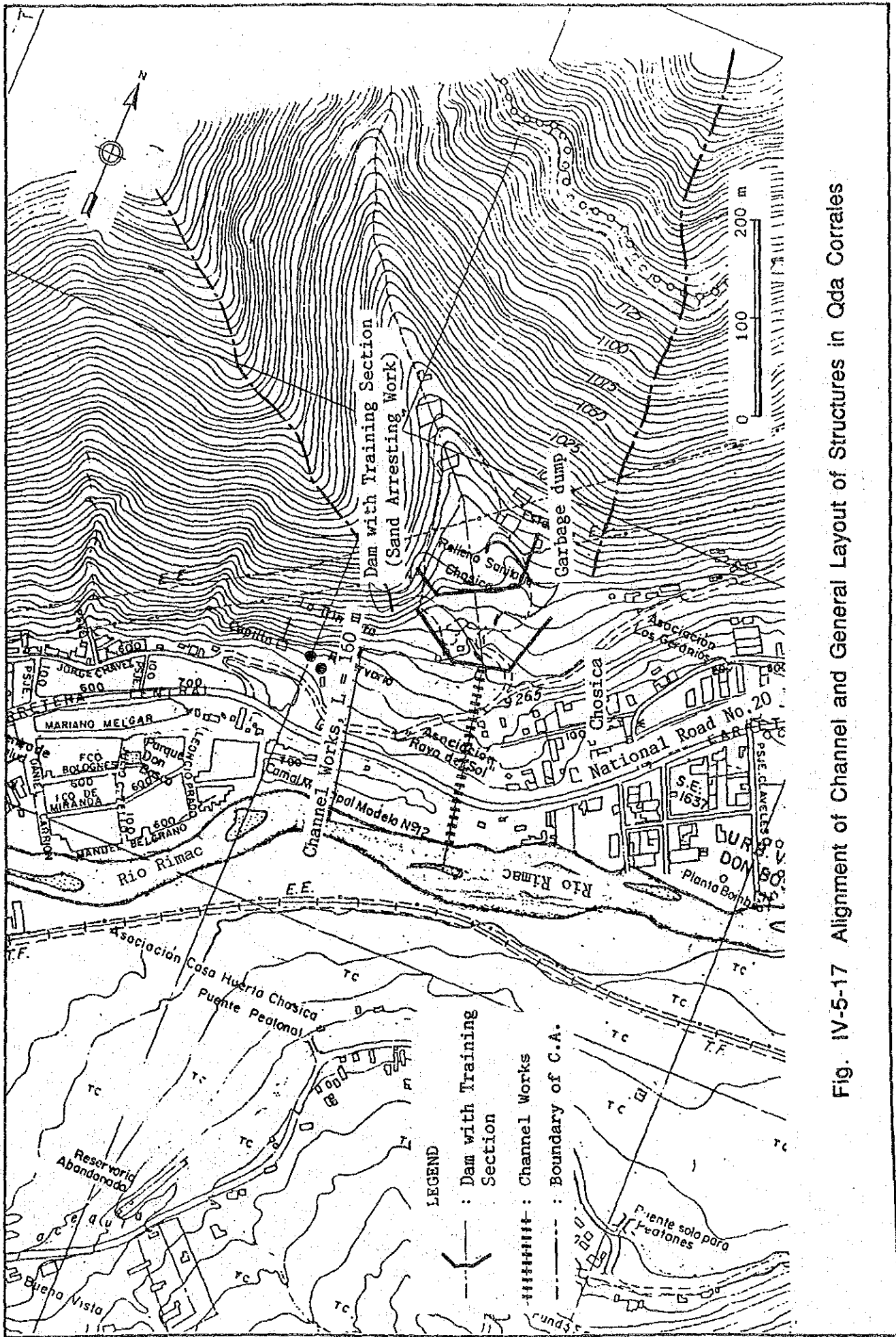


Fig. IV-5-17 Alignment of Channel and General Layout of Structures in Qda Corrales



R-9 : Qda. Corrales CA=1.4 km<sup>2</sup>

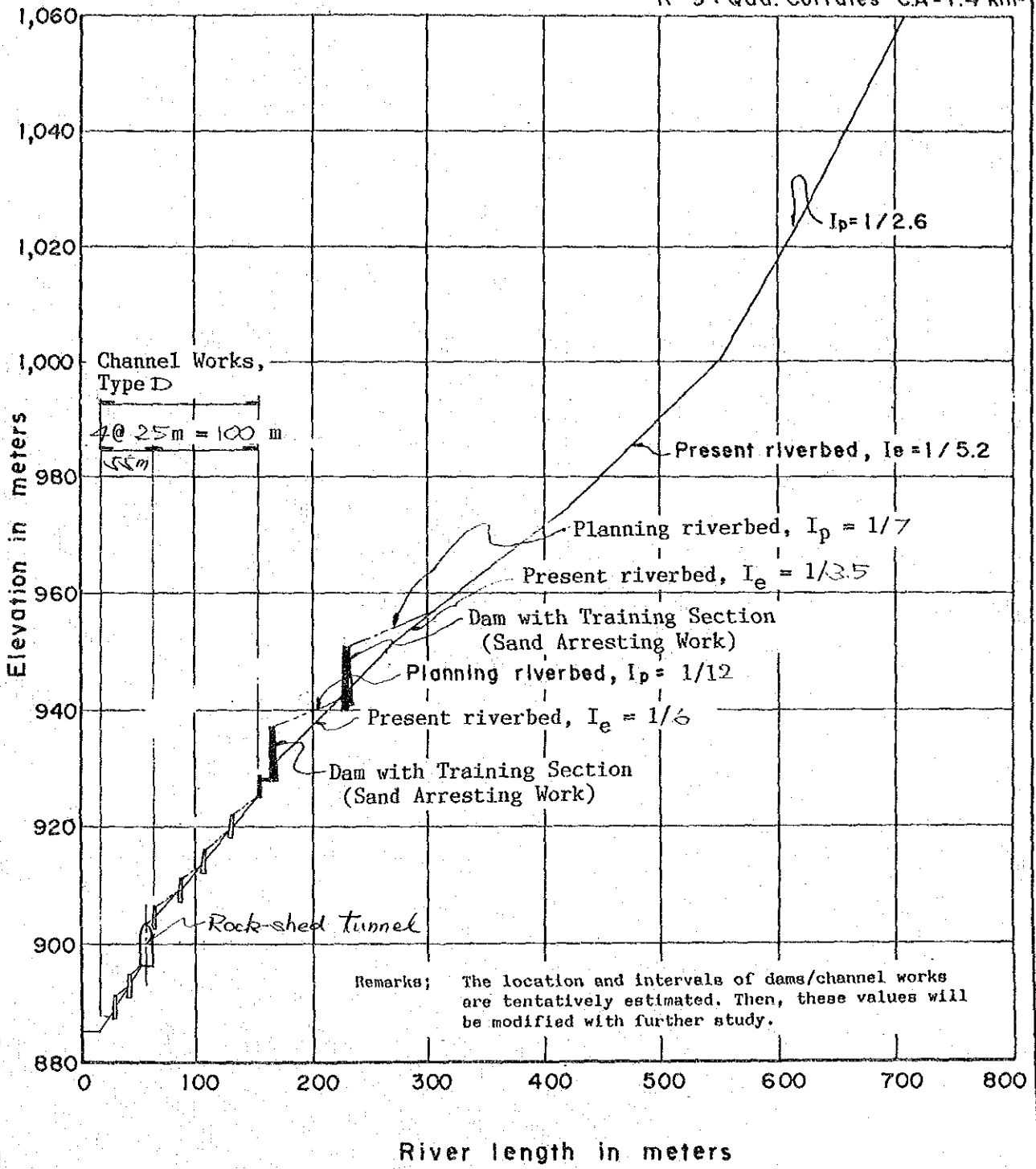


Fig. IV-5-18 Channel Profile and Location of Structures in Qda Corrales



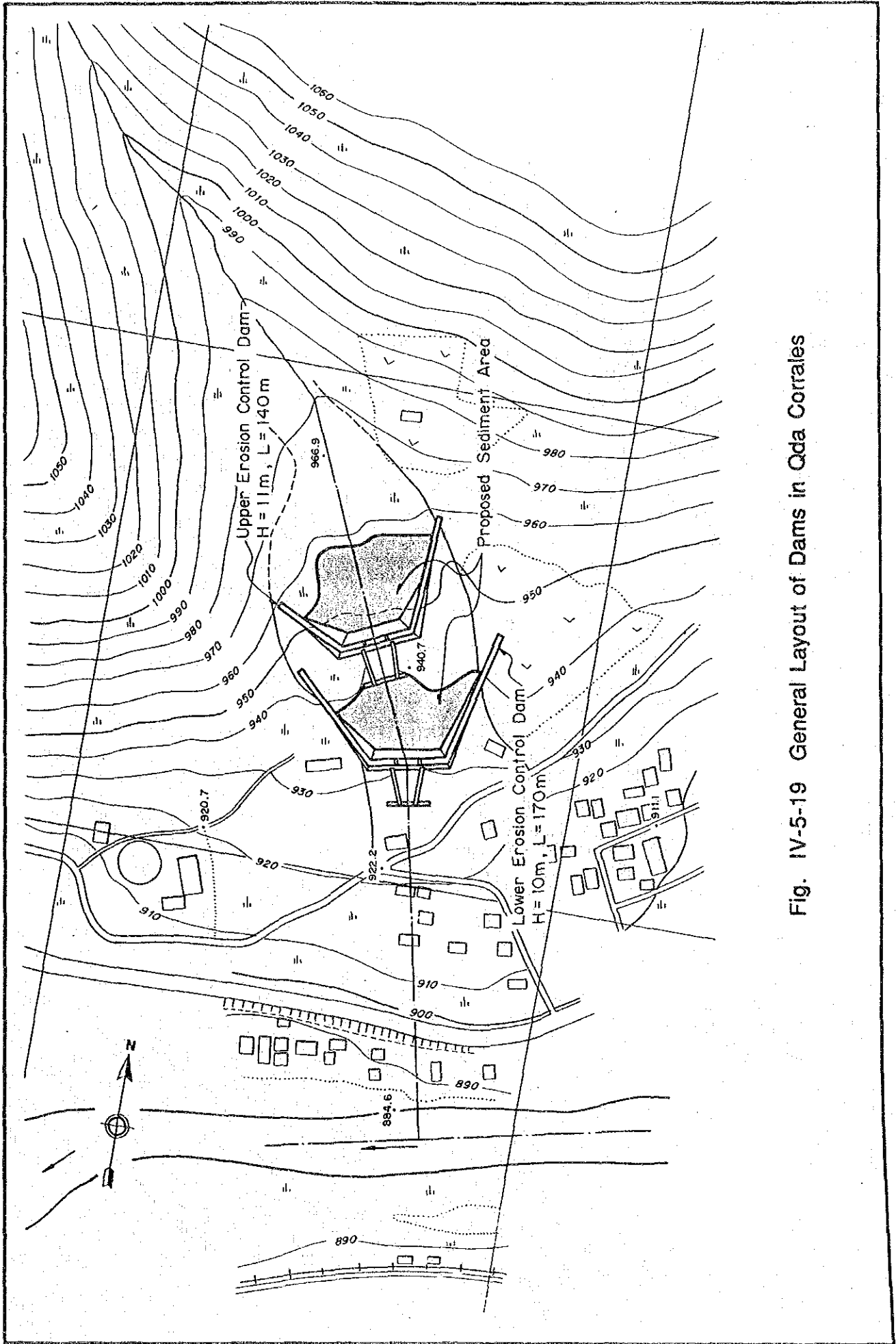
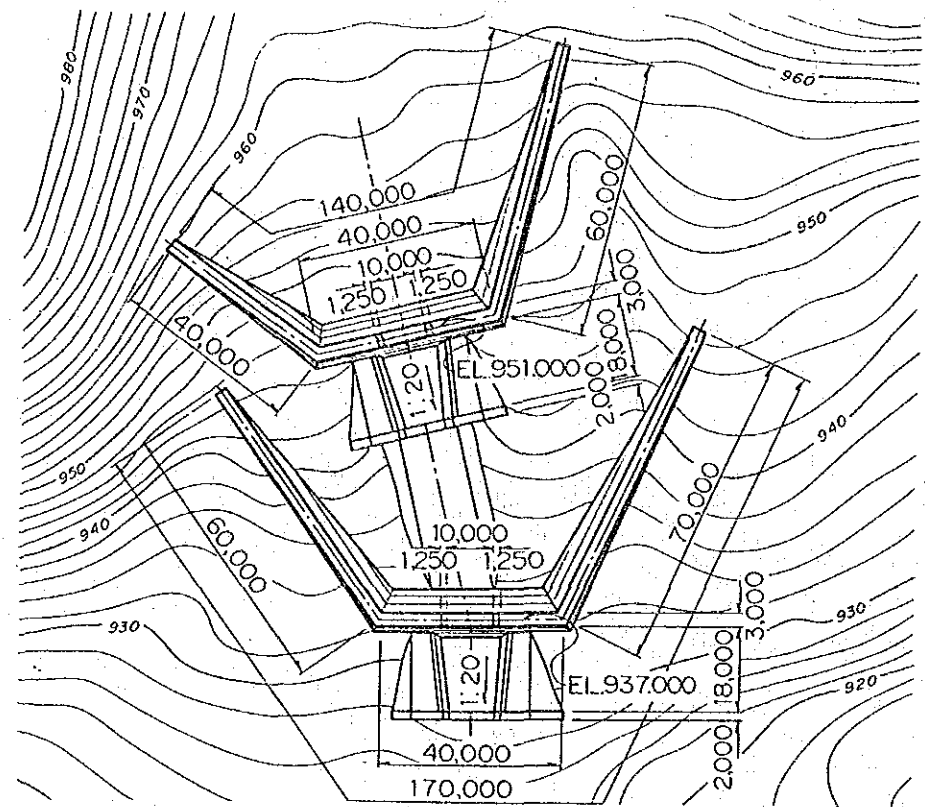
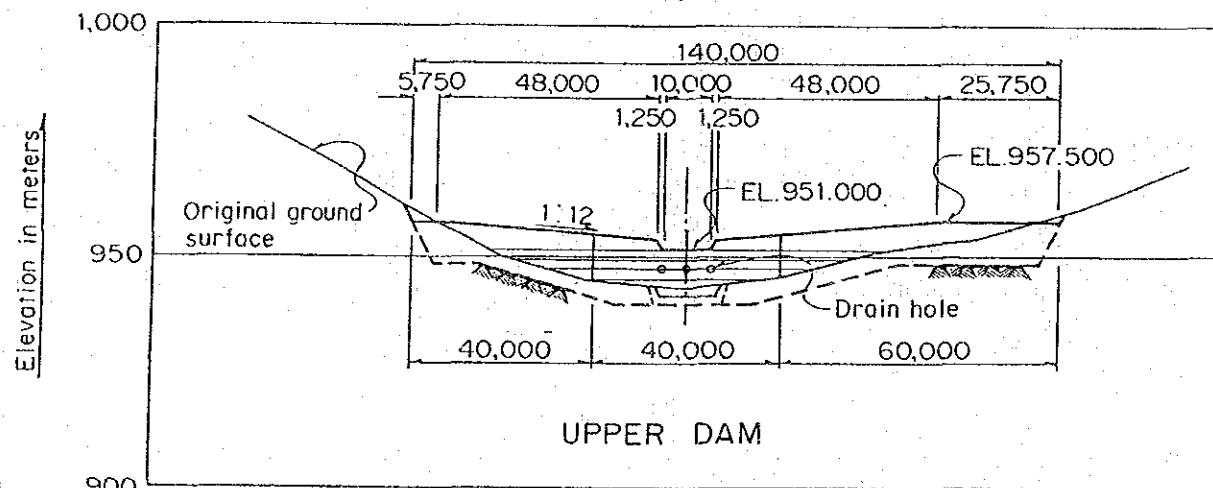


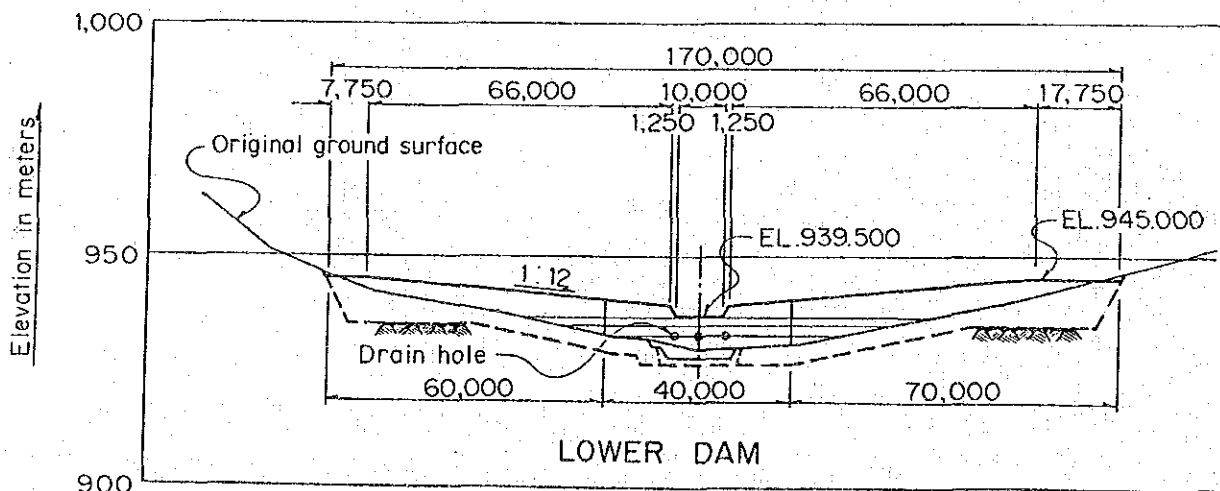
Fig. IV-5-19 General Layout of Dams in Qda Corrales



PLAN

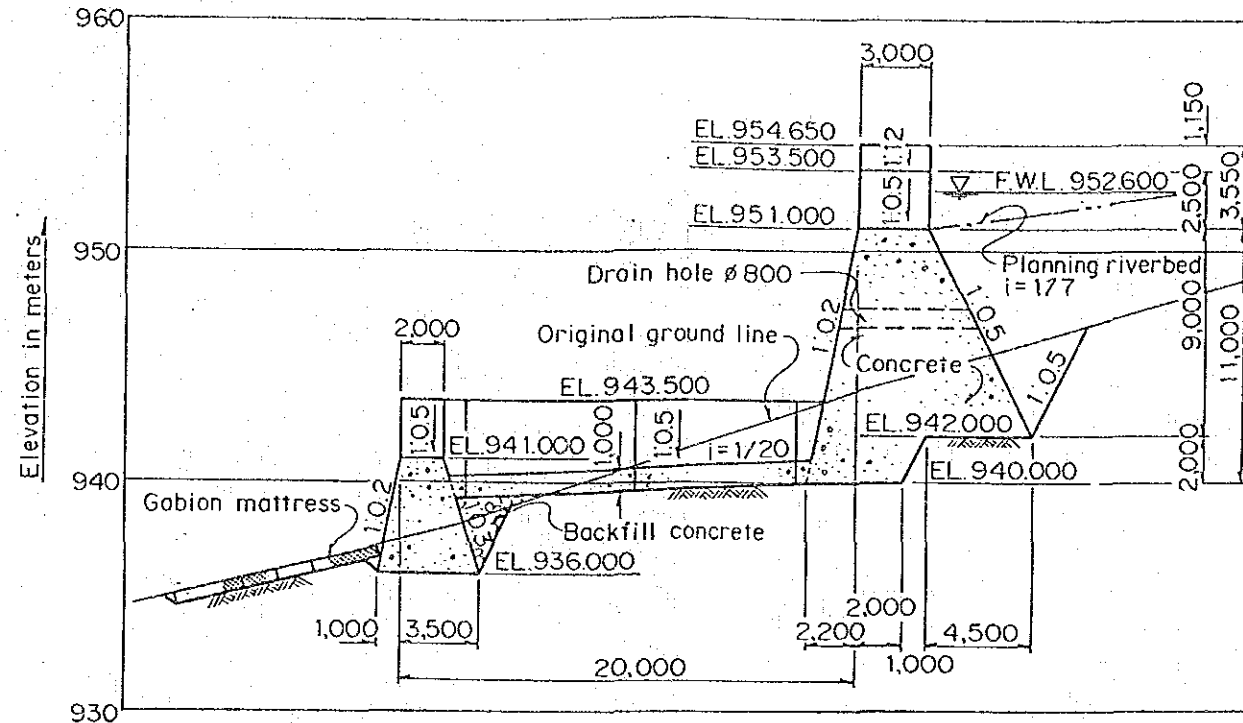


UPPER DAM

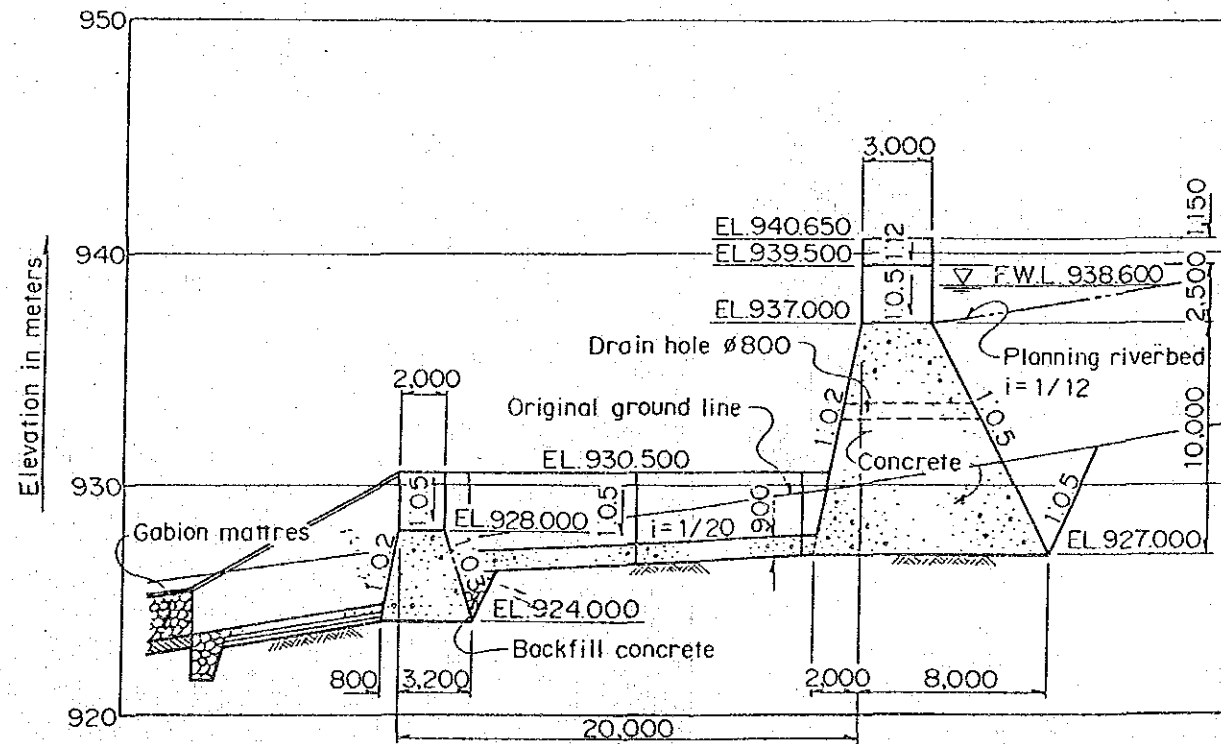


LOWER DAM

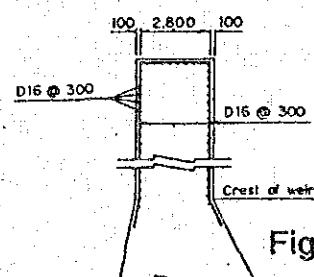
DOWNSTREAM ELEVATION



UPPER DAM



LOWER DAM SECTION



REINFORCEMENT DETAIL OF WING PORTION

Fig. IV-5-20 Plan, Elevation and Section of Dam in Qda Corrales



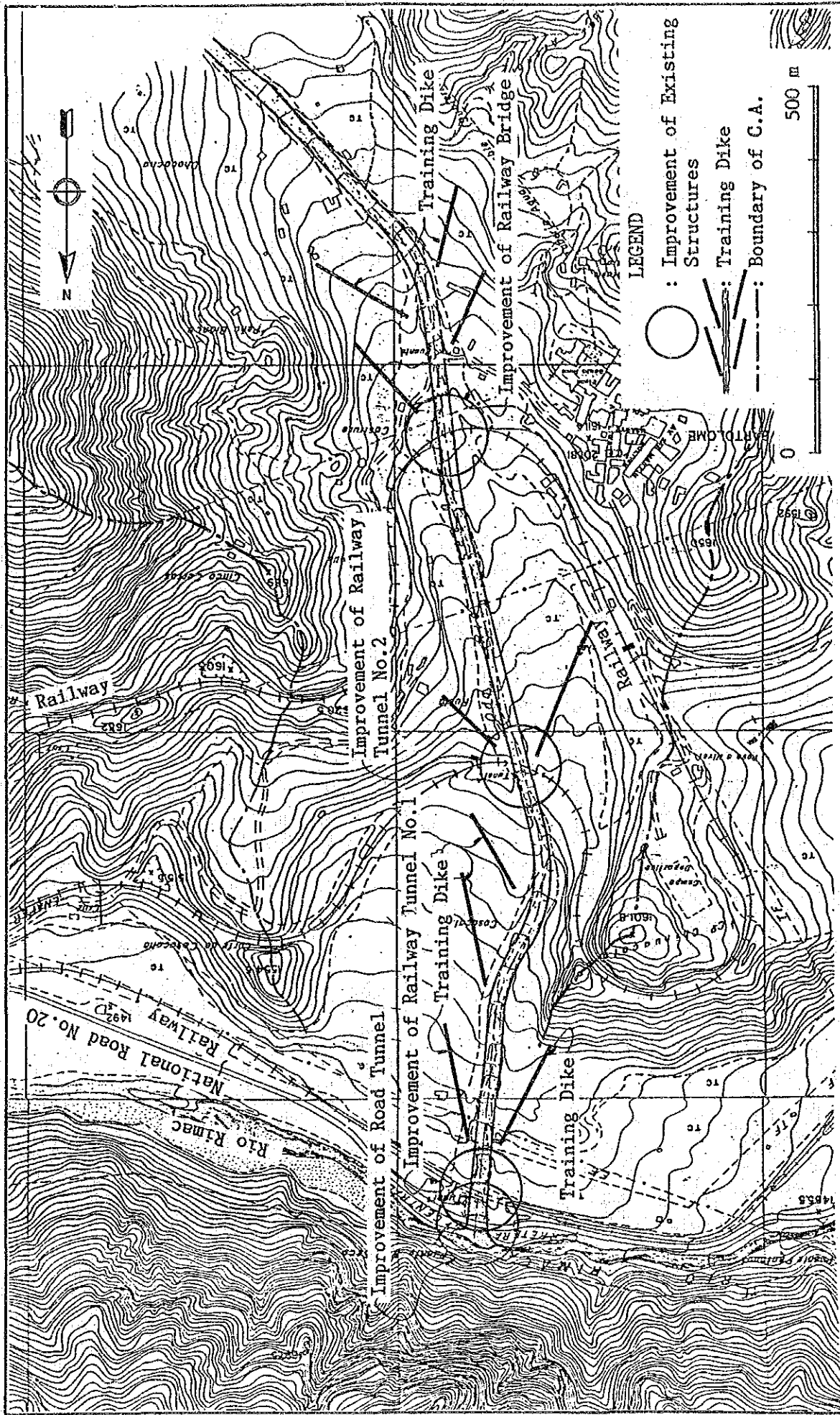


Fig. IV-5-21 Alignment of Channel and General Layout of Structures in Qda Rio Seco





R-19 : Qda. Rio Seco C.A=49.3 km²

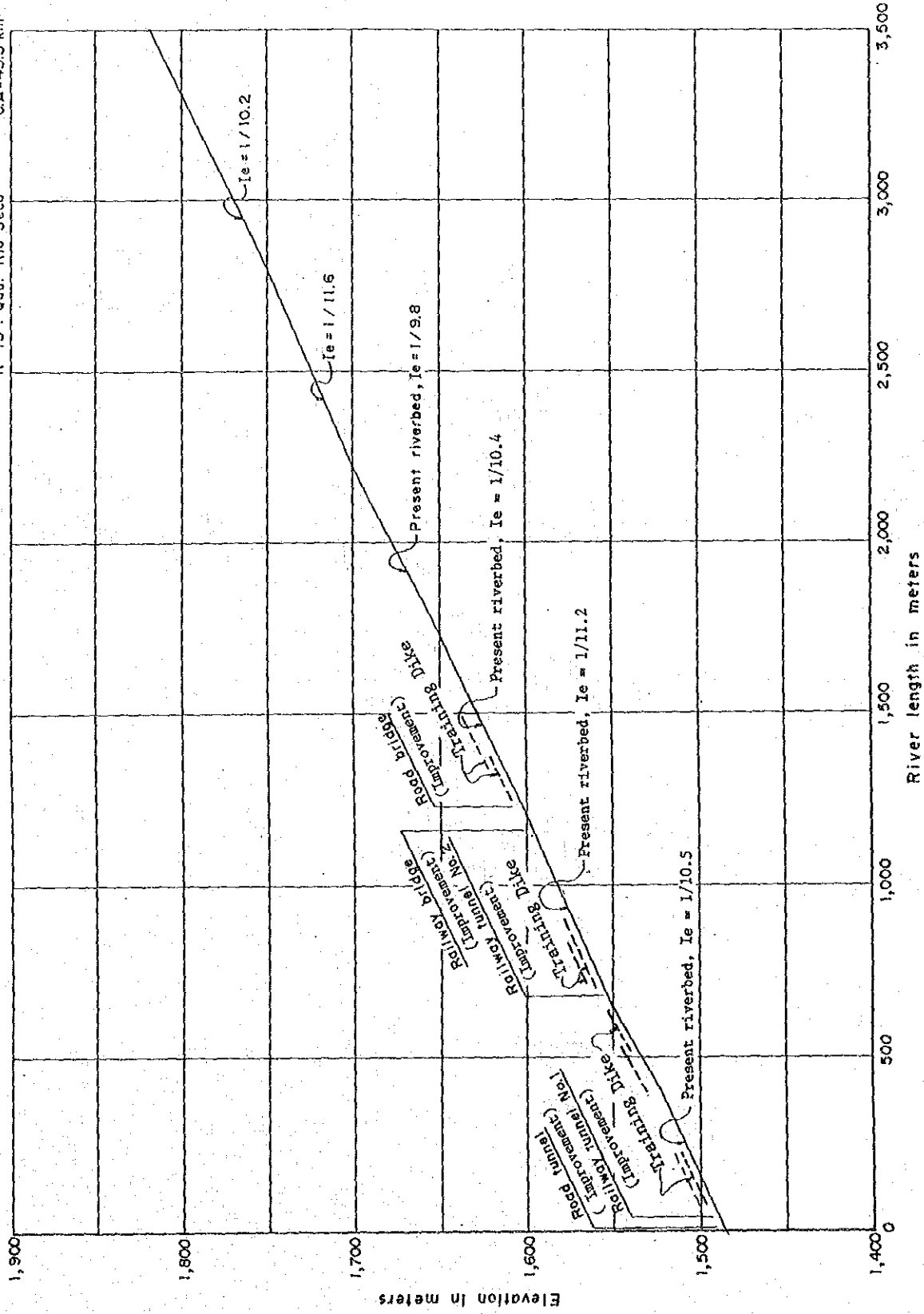


Fig. IV-5-22 Channel Profile and Location of Structures in Qda Rio Seco



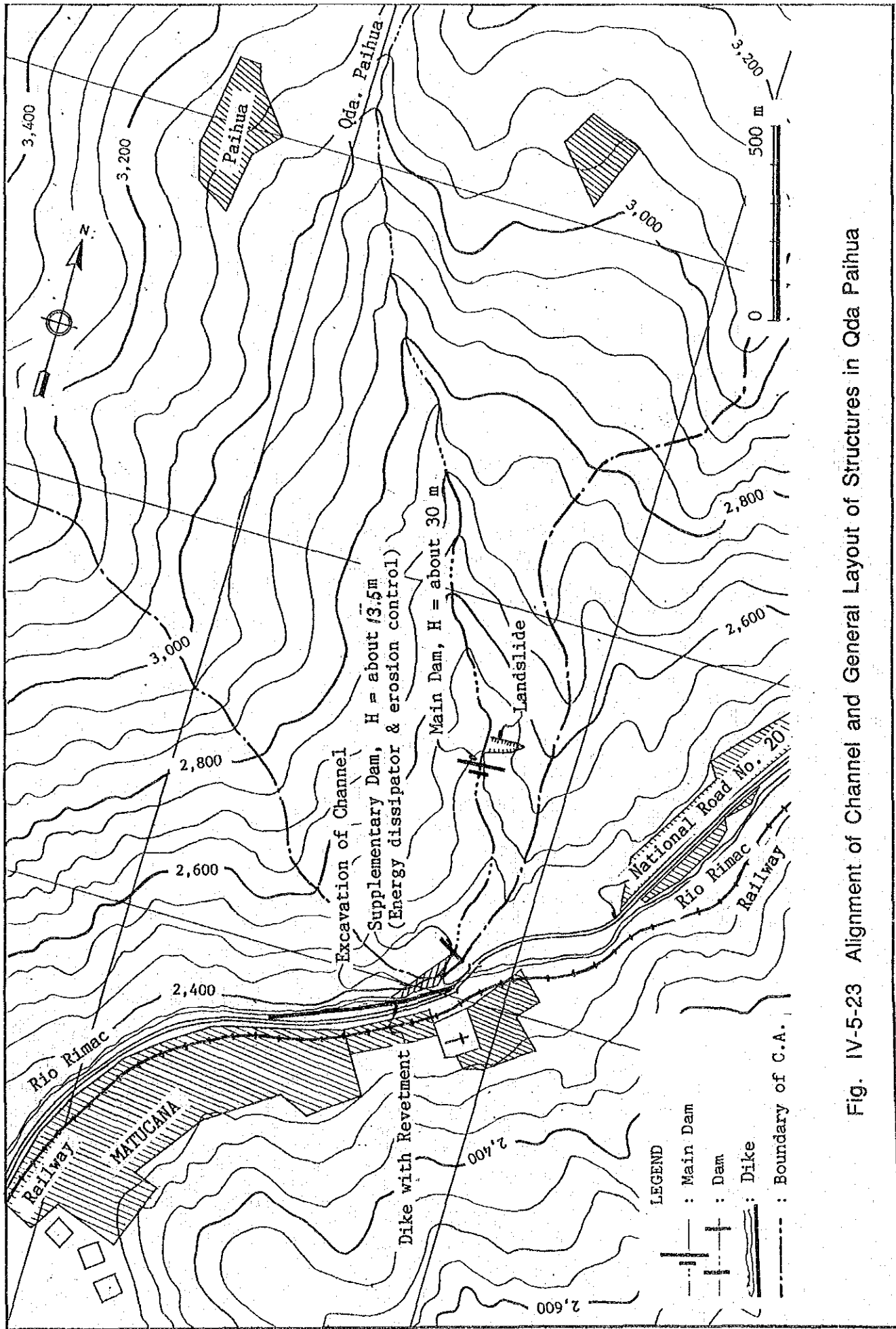


Fig. IV-5-23 Alignment of Channel and General Layout of Structures in Qda Paihua



R-32 : Qda. Paihua C.A = 14.9 km<sup>2</sup>

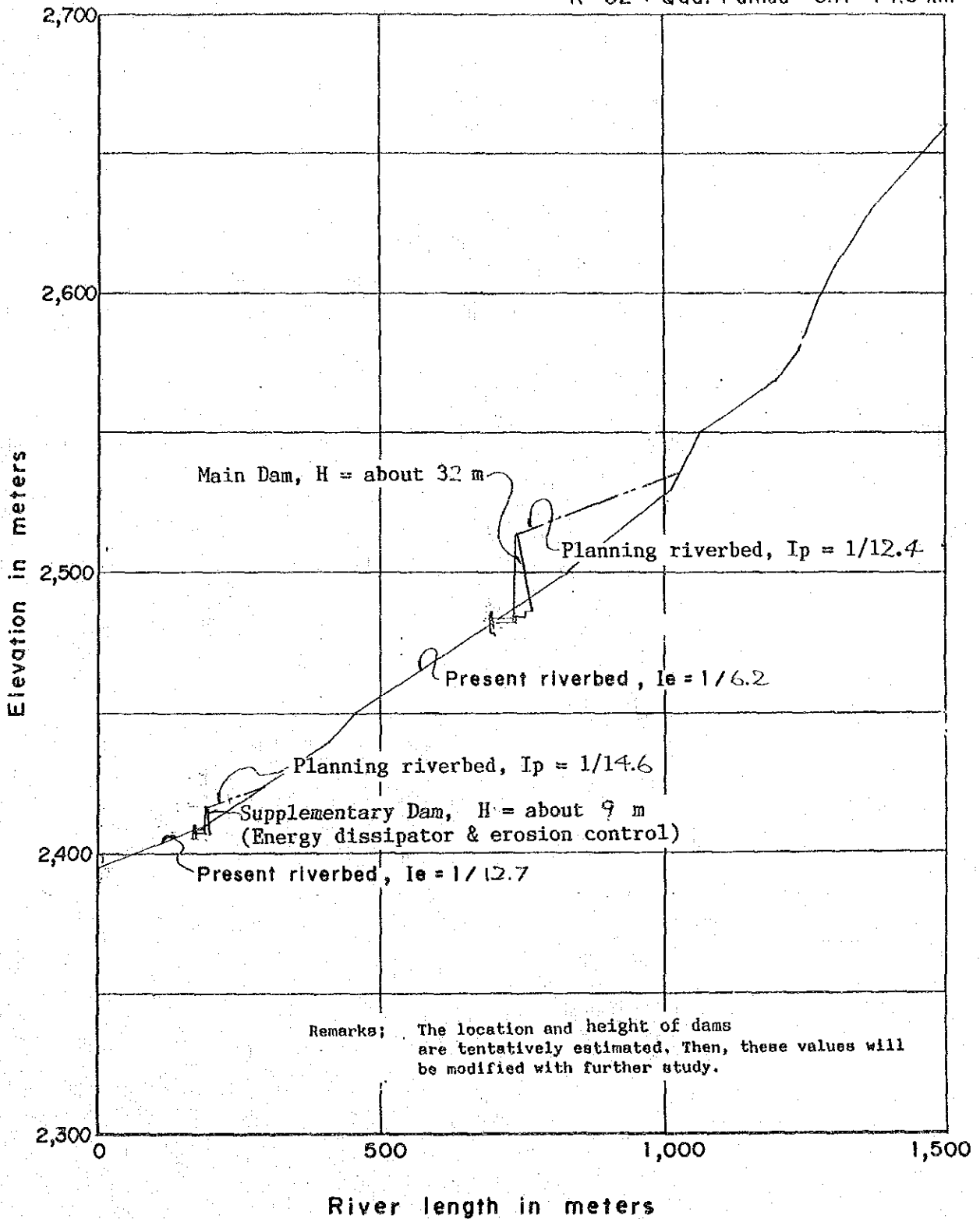


Fig. IV-5-24 Channel Profile and Location of Structures in Qda Paihua

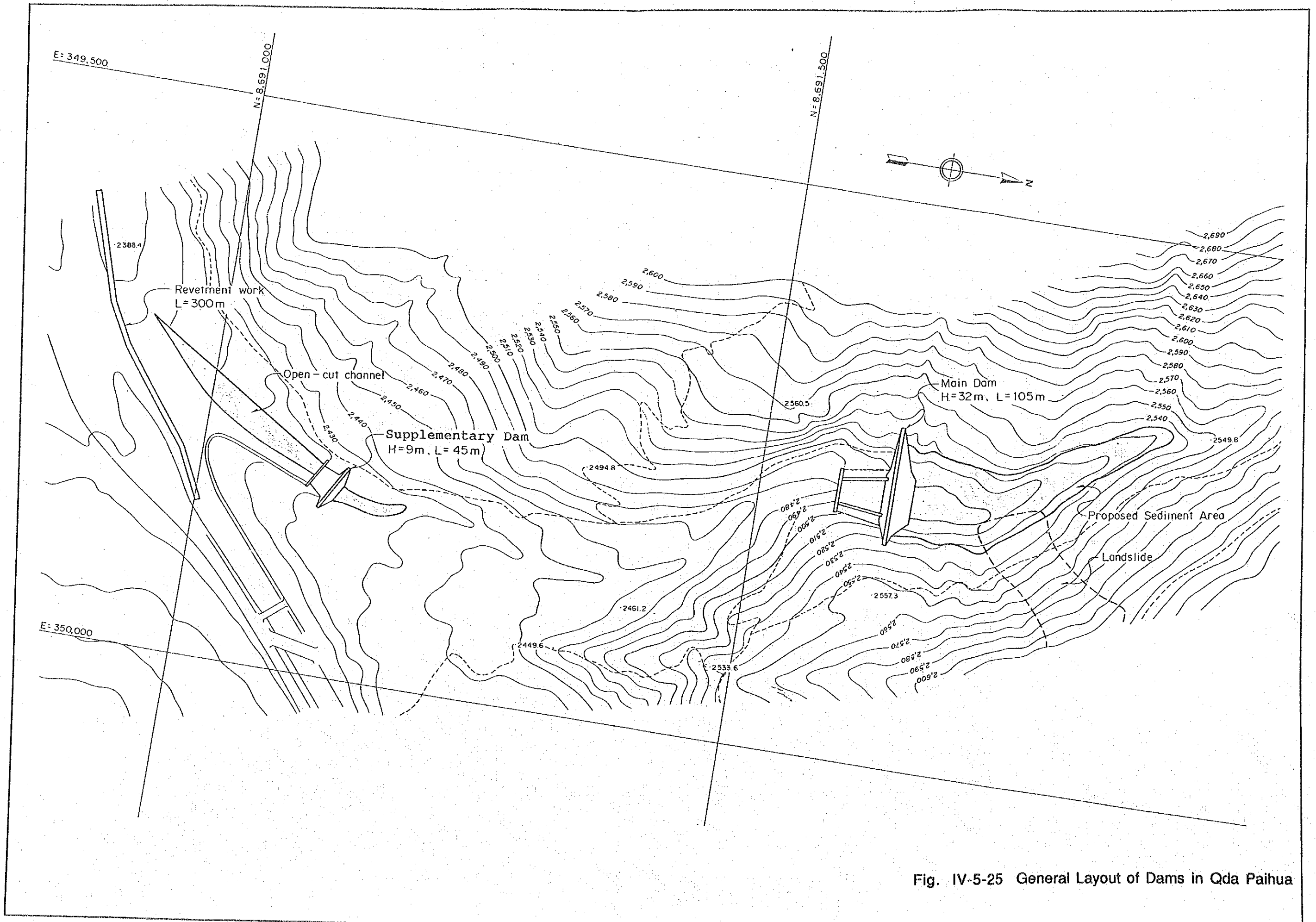
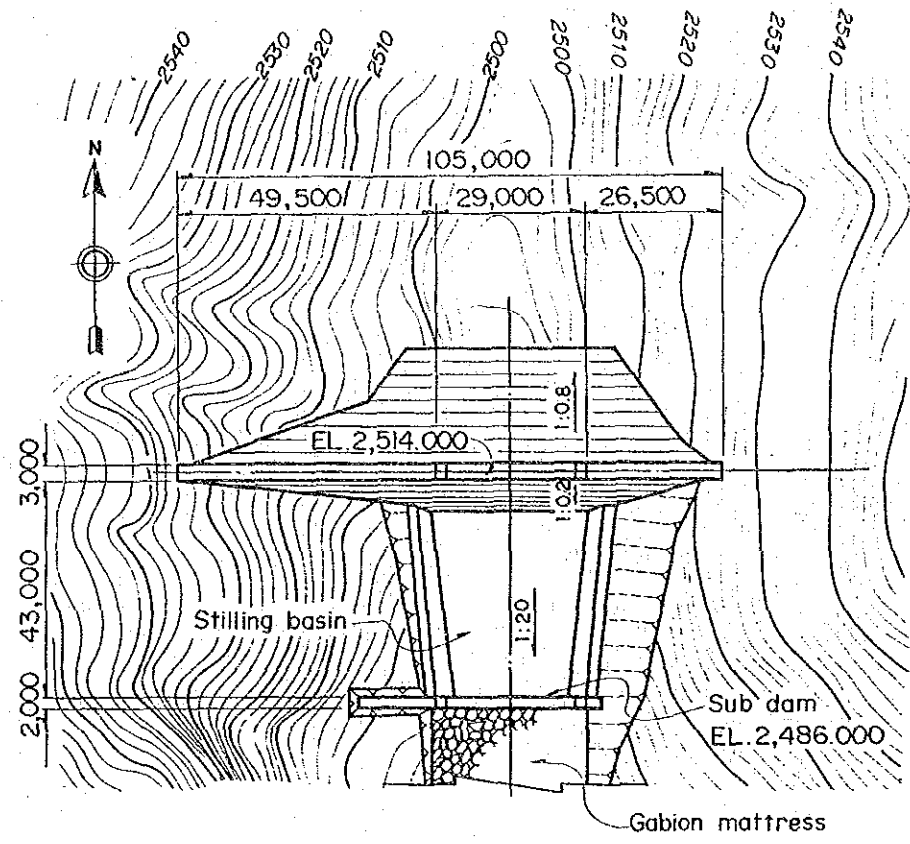
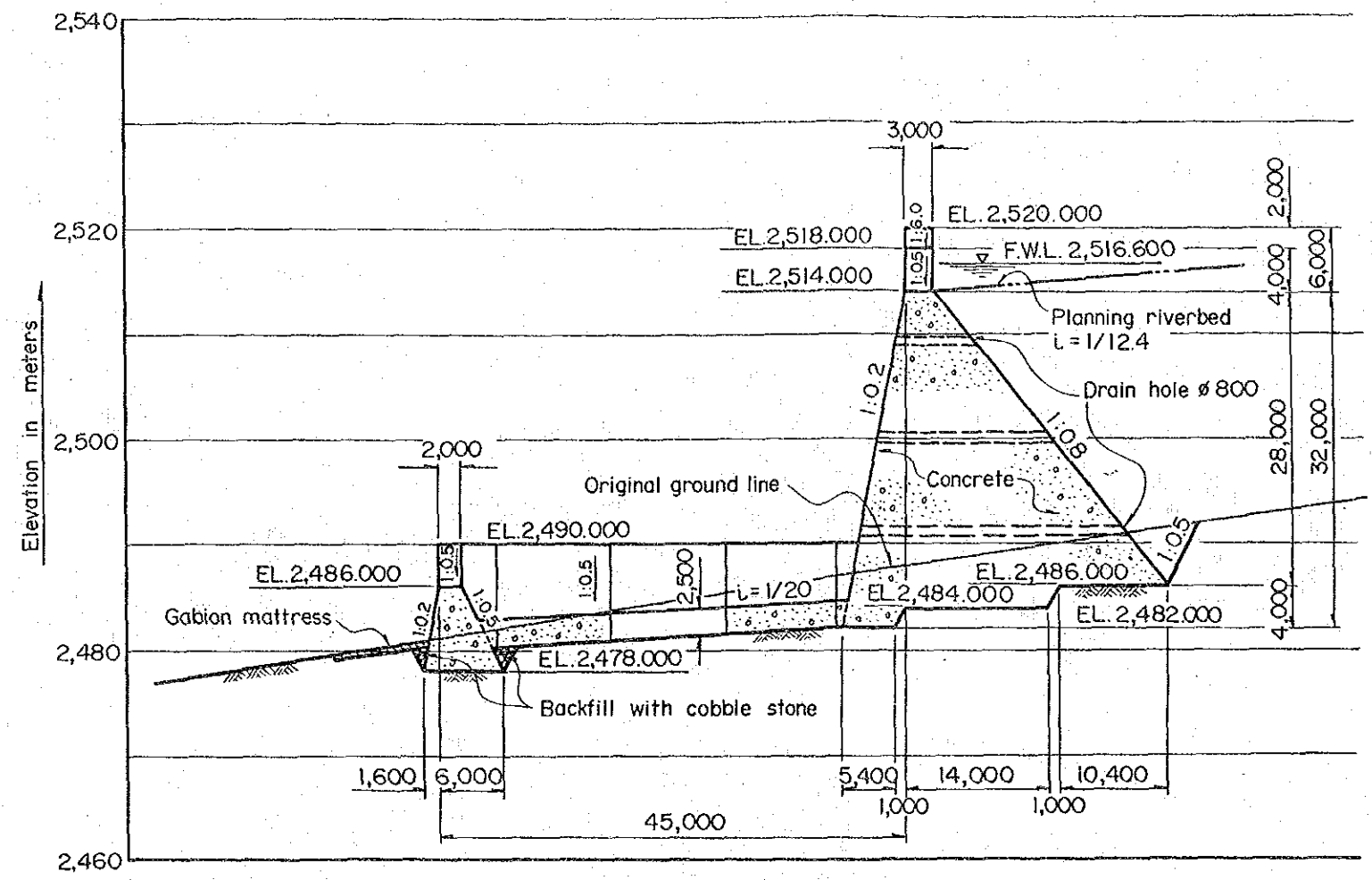


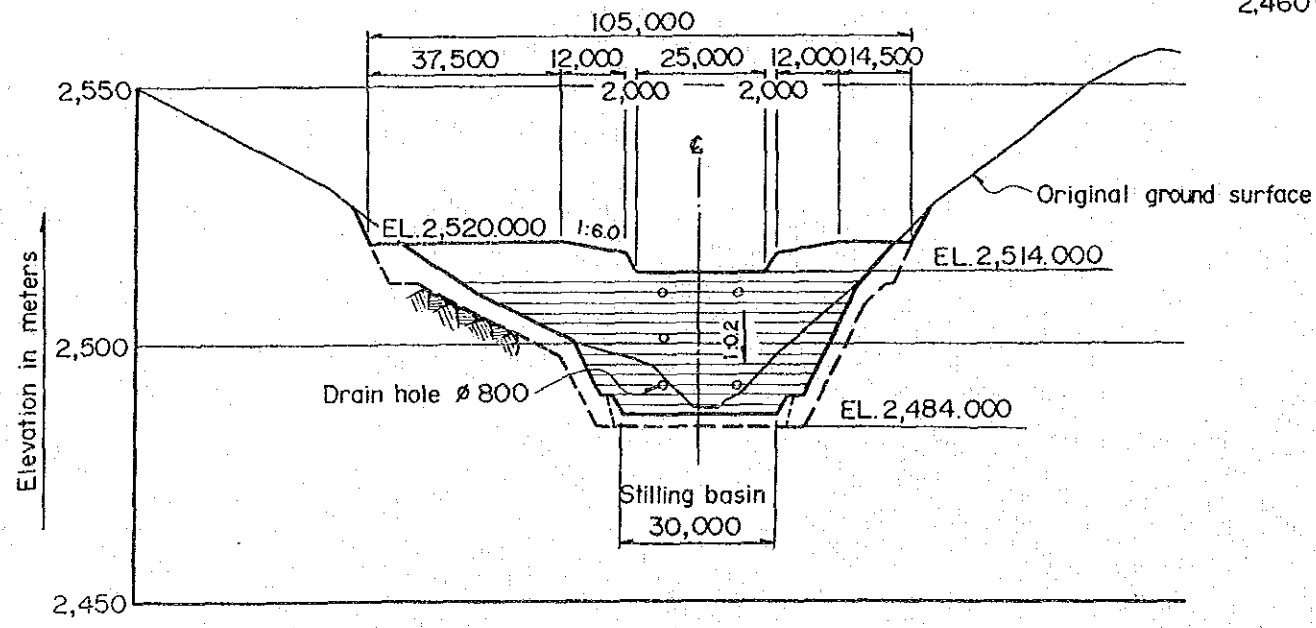
Fig. IV-5-25 General Layout of Dams in Qda Paihua



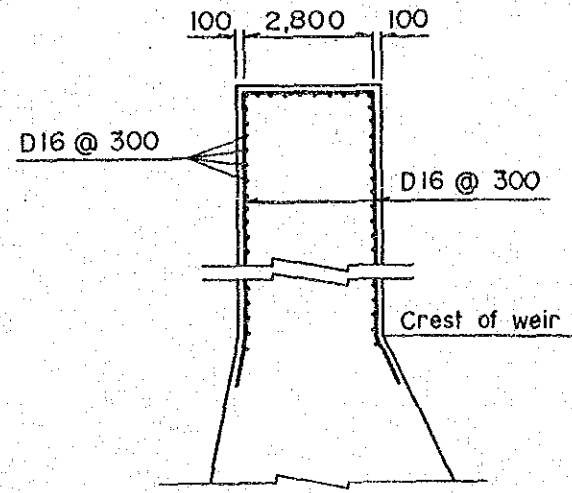
PLAN



SECTION



DOWNSTREAM ELEVATION



REINFORCEMENT DETAIL OF WING PORTION

Fig. IV-5-26 Plan, Elevation and Section of Main Dam in Qda Paihua





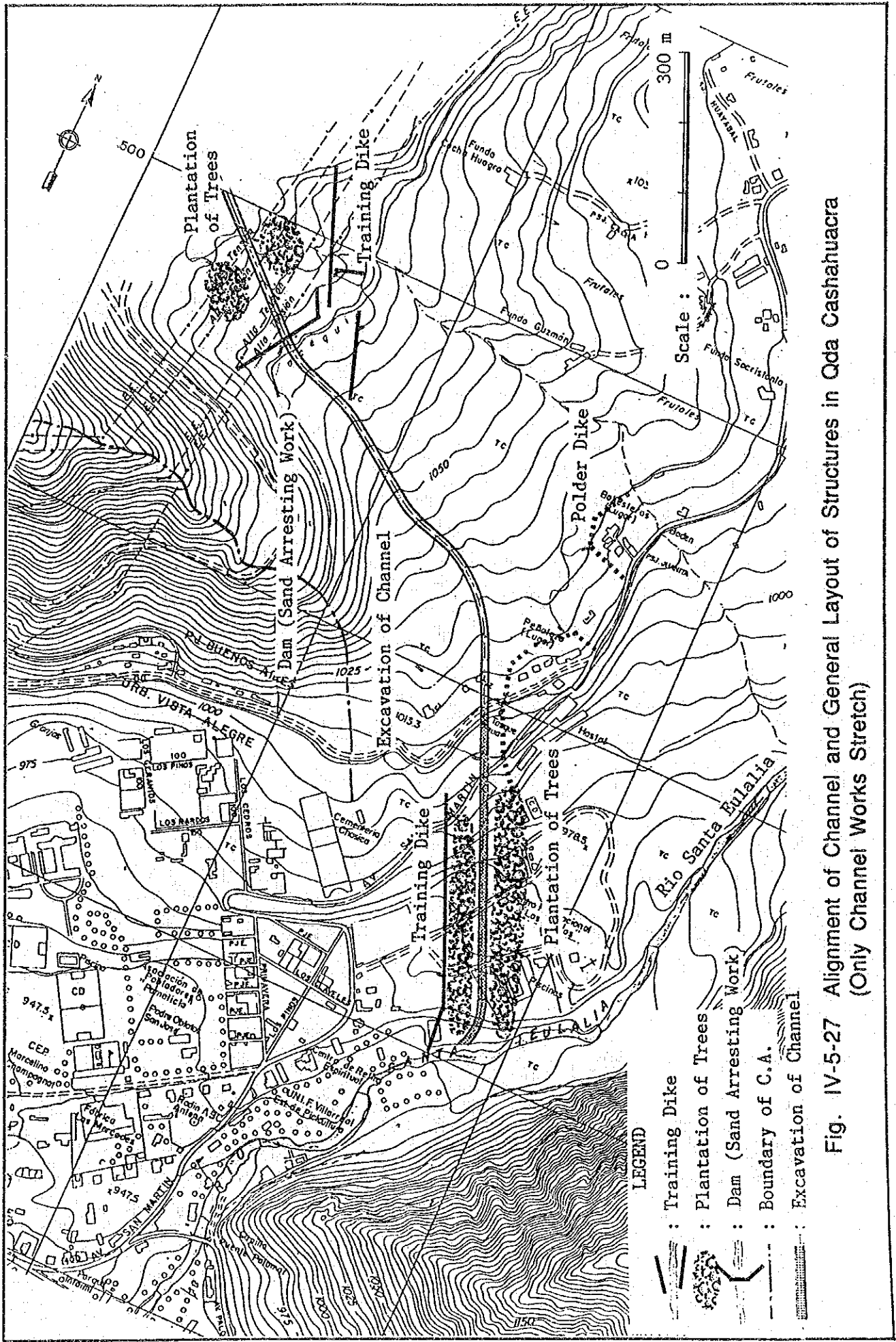


Fig. IV-5-27 Alignment of Channel and General Layout of Structures in Qda Cashahuacra (Only Channel Works Stretch)



S - 1 : Oda, Cashahuacra CA = 15.1 km<sup>2</sup>

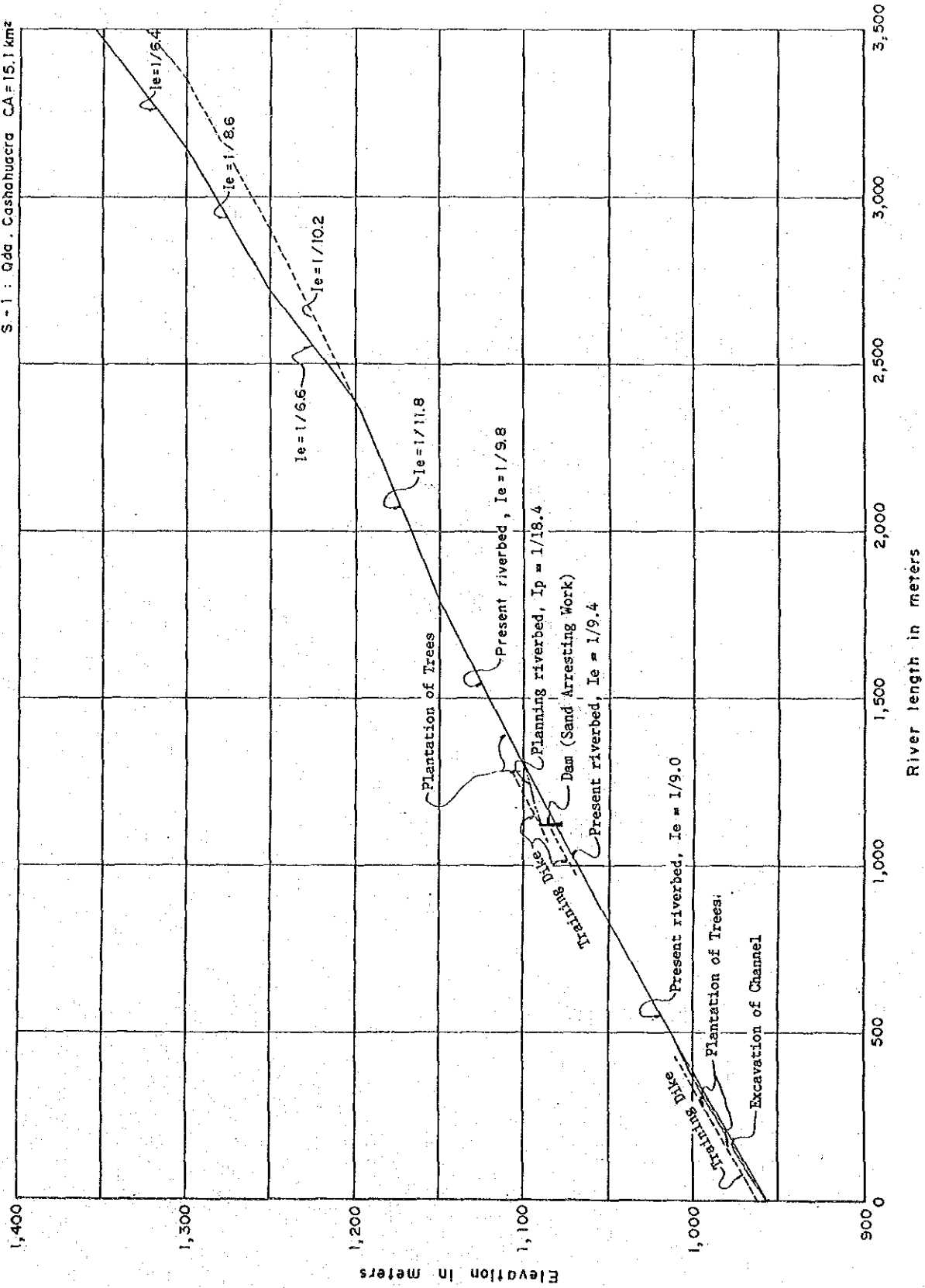


Fig. IV-5-28 Channel Profile and Location of Structures in Oda Cashahuacra



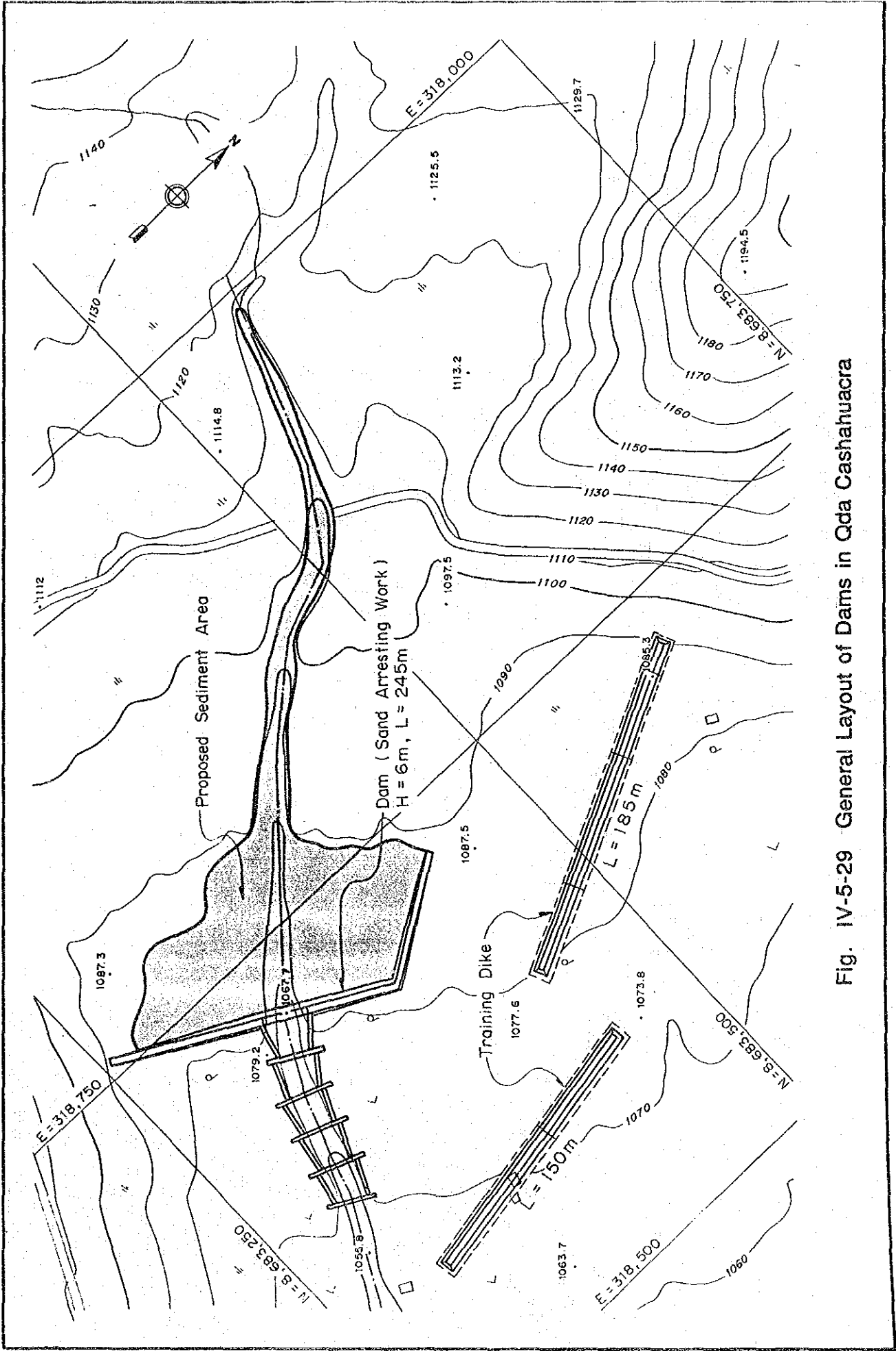
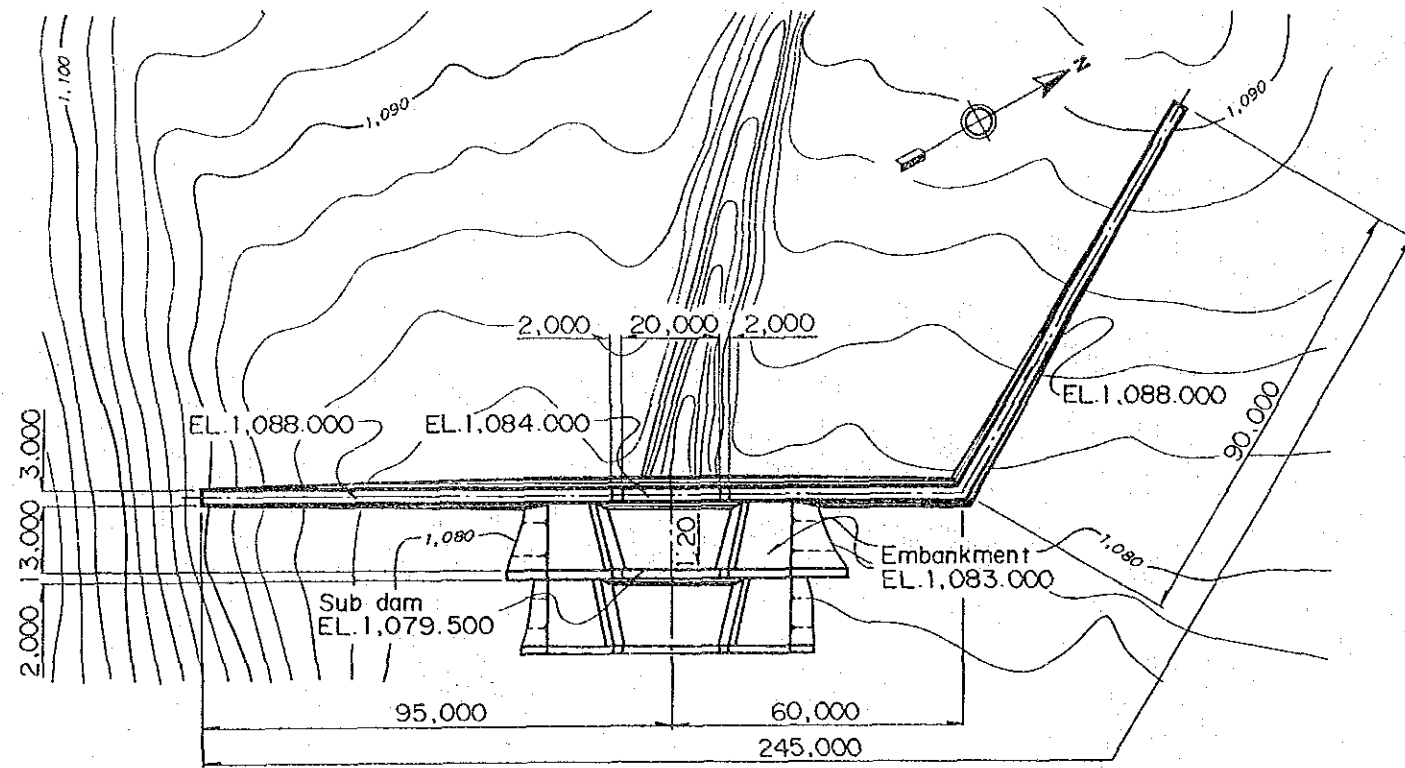
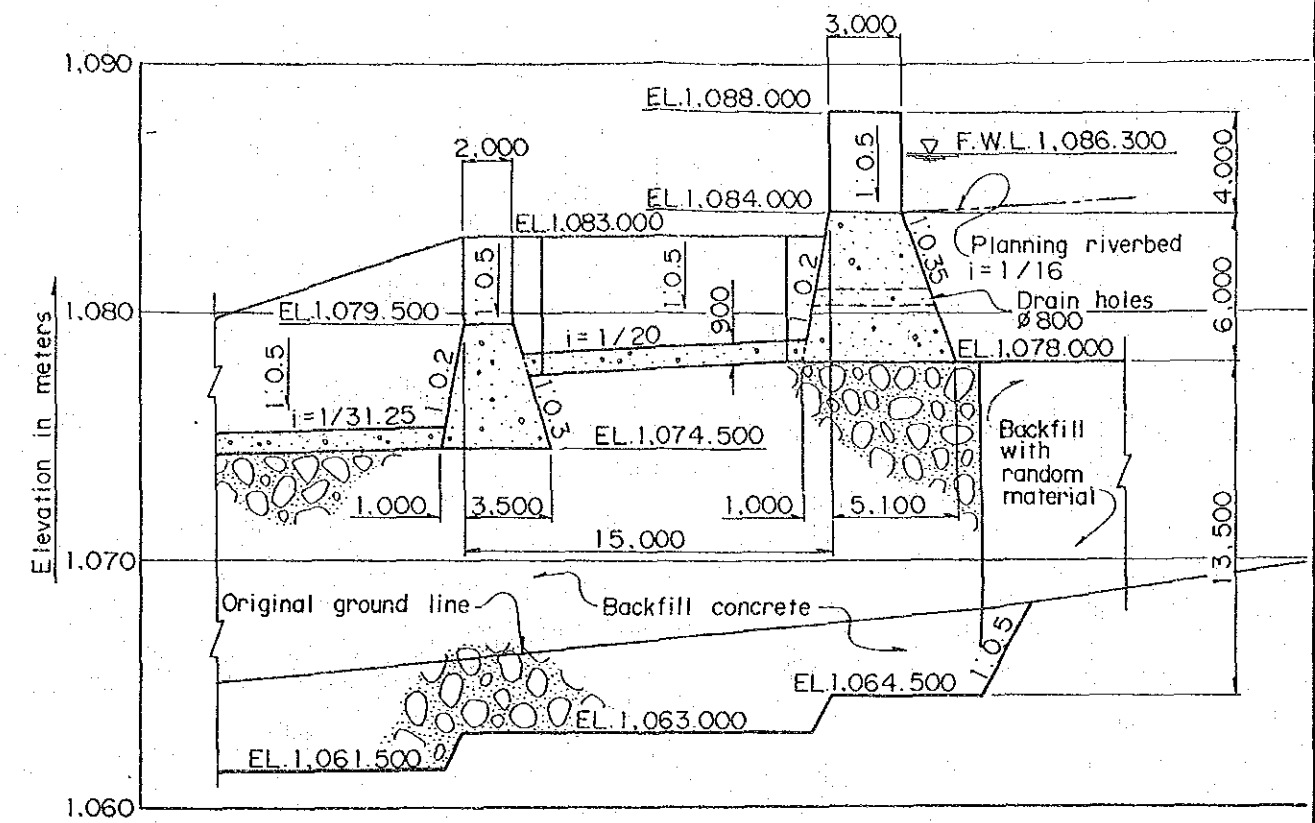


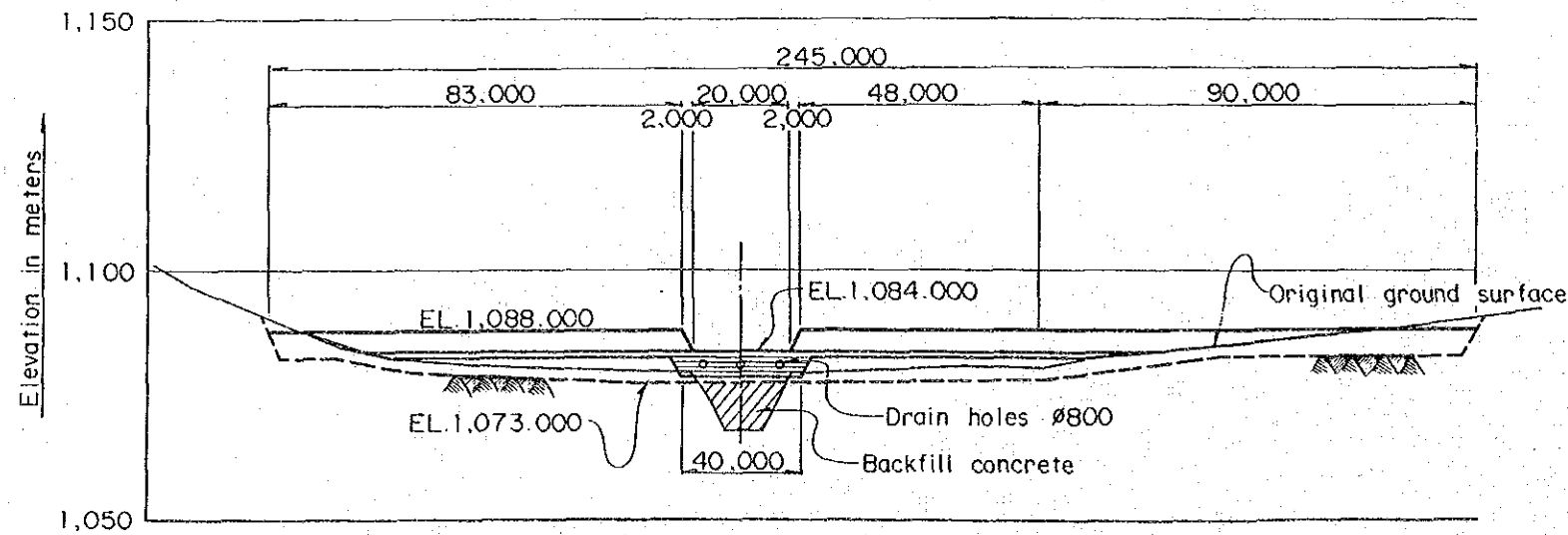
Fig. IV-5-29 General Layout of Dams in Qda Cashahuacra



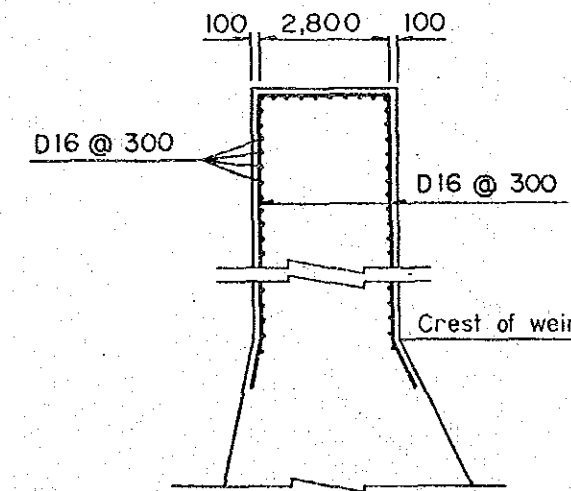
PLAN



SECTION



DOWNSTREAM ELEVATION

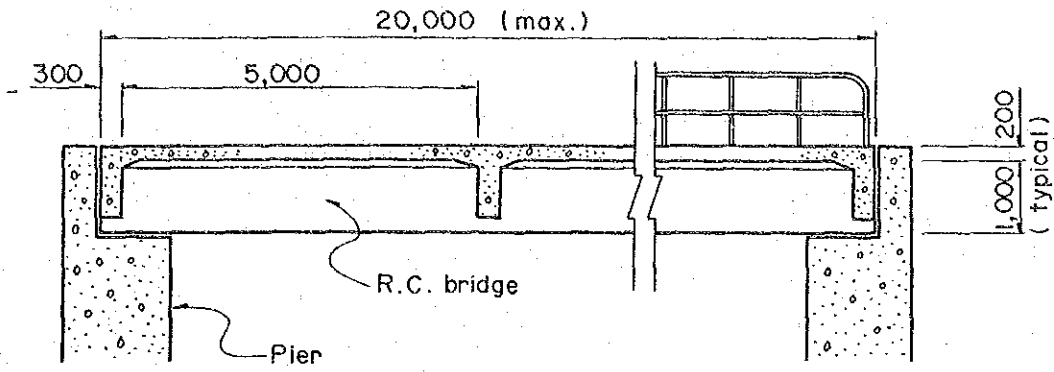


REINFORCEMENT DETAIL OF WING PORTION

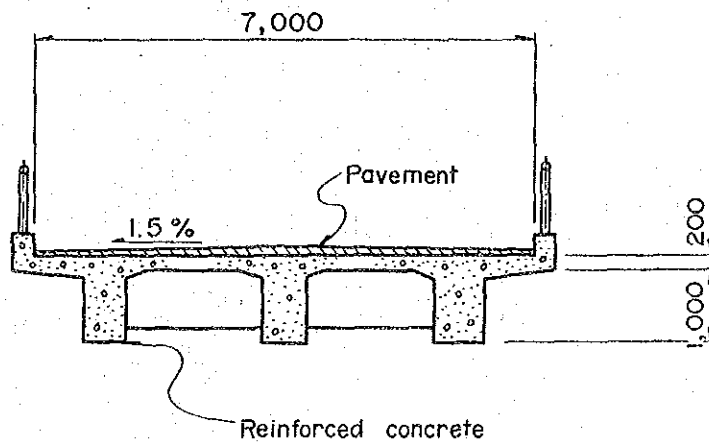
Fig. IV-5-30 Plan, Elevation and Section of Dam in Qda Cashahuacra







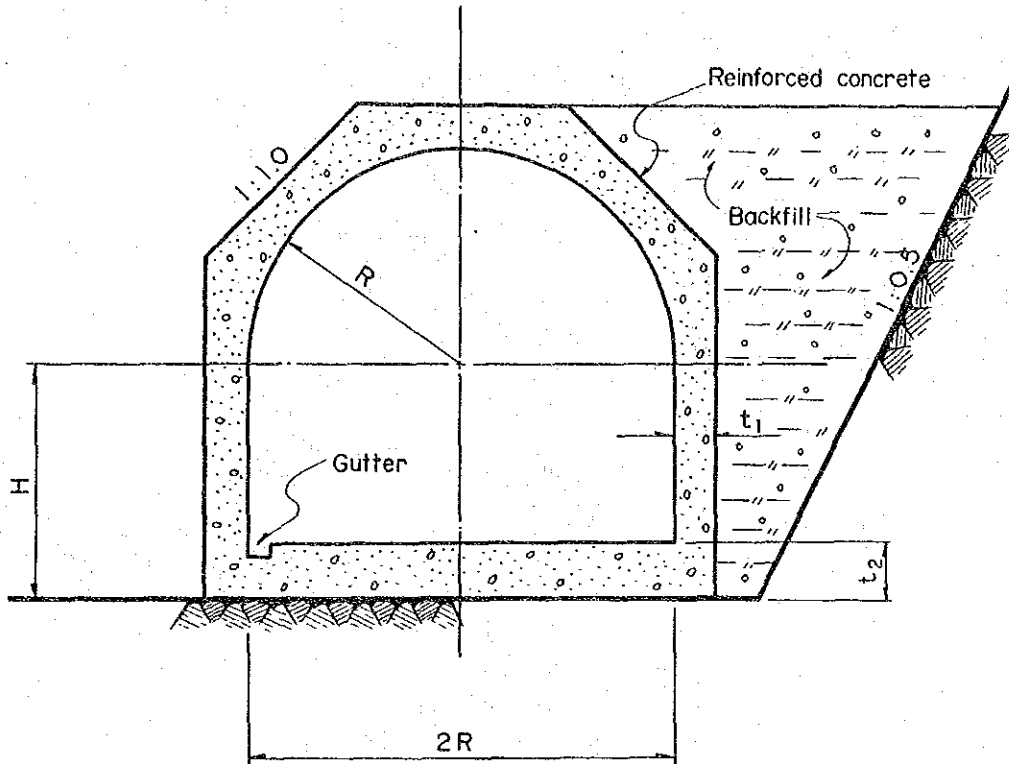
PROFILE



SECTION

Fig. IV-6-1 Typical Design of Bridge (Roadway Type)



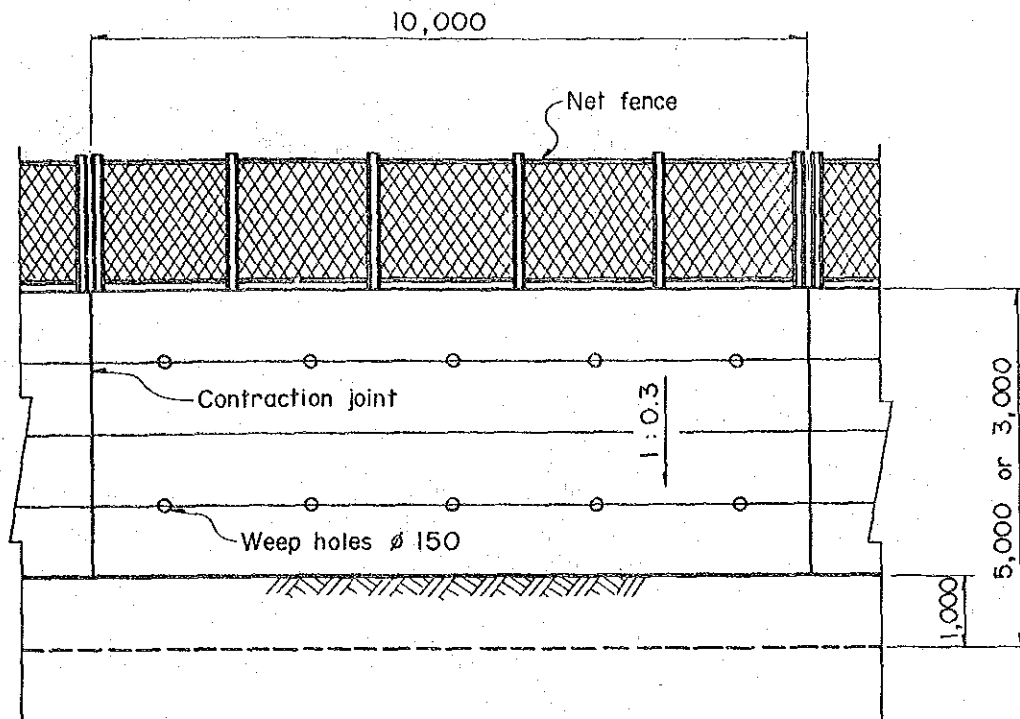


### DIMENSIONS

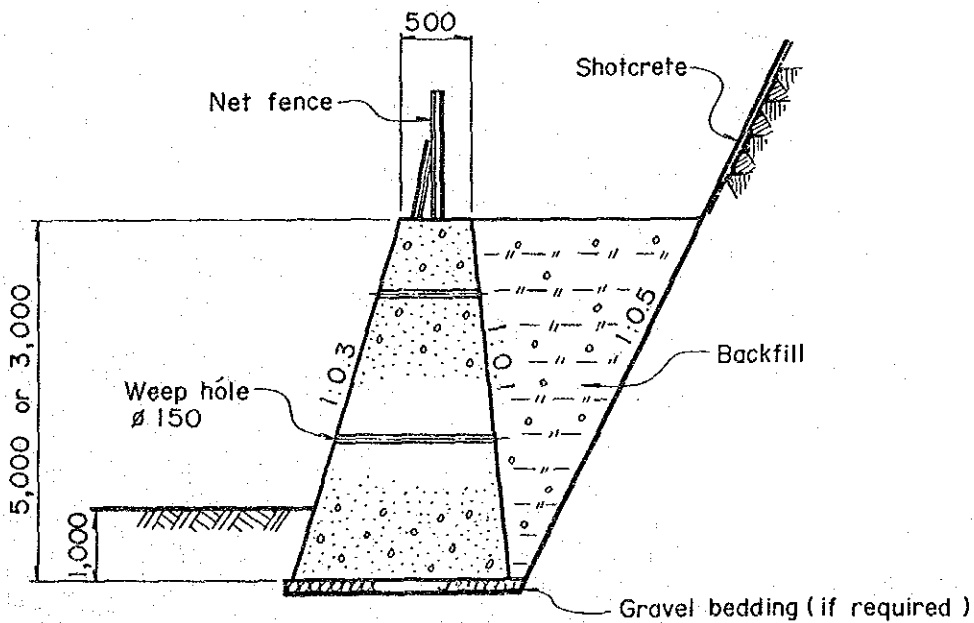
	R (m)	H (m)	$t_1$ (m)	$t_2$ (m)
Roadway	3.5	2.5	0.6	0.8
Railway	1.9	1.9	0.4	0.6

Fig. IV-6-2 Typical Design of Rock-shed Tunnel





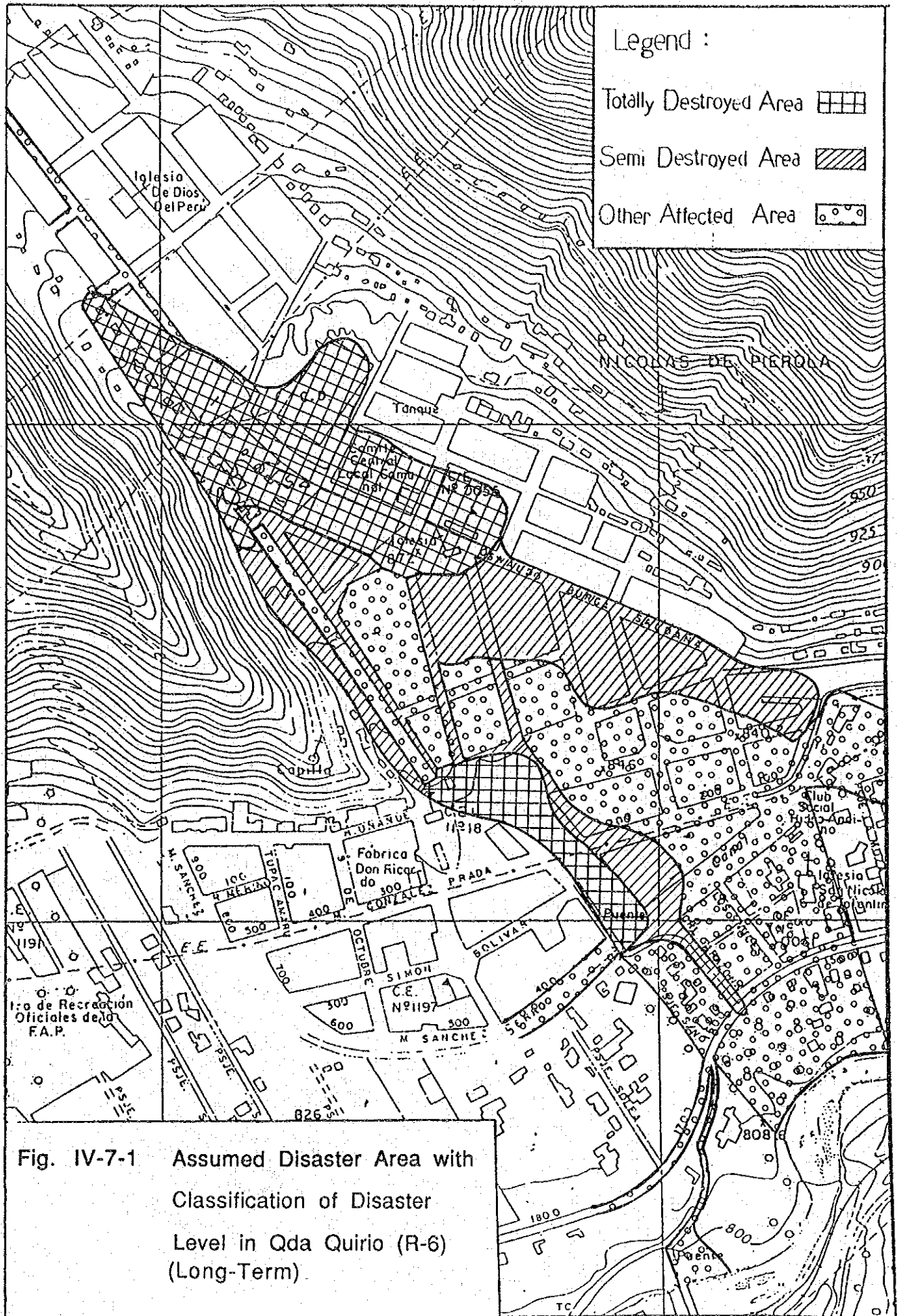
ELEVATION




SECTION


Fig. IV-6-3 Typical Design of Retaining Wall





Legend :

Totally Destroyed Area 

Semi Destroyed Area 


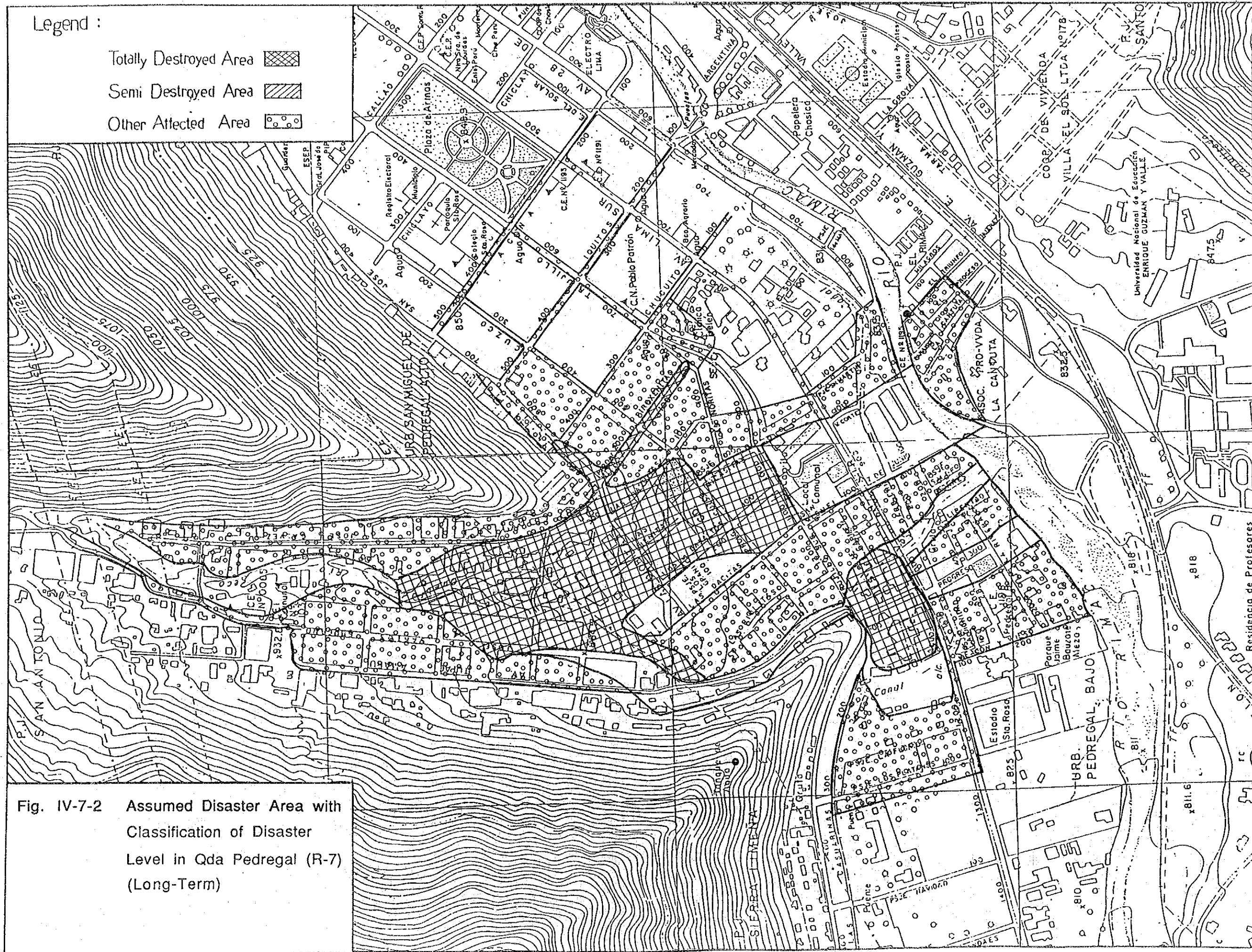
Other Affected Area 

Fig. IV-7-1 Assumed Disaster Area with Classification of Disaster Level in Qda Quirio (R-6) (Long-Term)



Legend :

- Totally Destroyed Area
- Semi Destroyed Area
- Other Affected Area

Fig. IV-7-2 Assumed Disaster Area with Classification of Disaster Level in Qda Pedregal (R-7) (Long-Term)



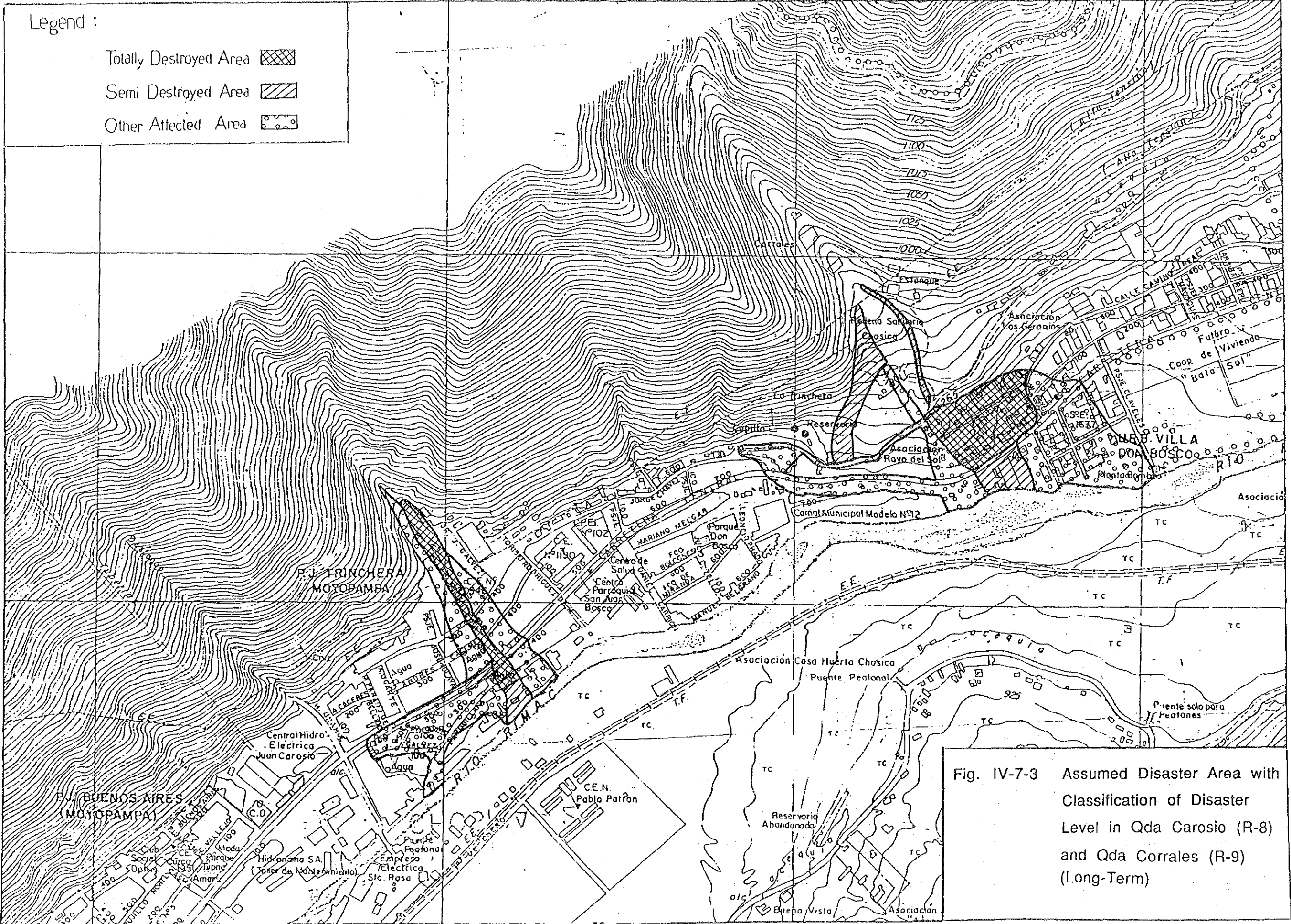





Fig. IV-7-3 Assumed Disaster Area with Classification of Disaster Level in Qda Carosio (R-8) and Qda Corrales (R-9) (Long-Term)

Legend :

Totally Destroyed Area 

Semi Destroyed Area 

Other Affected Area 

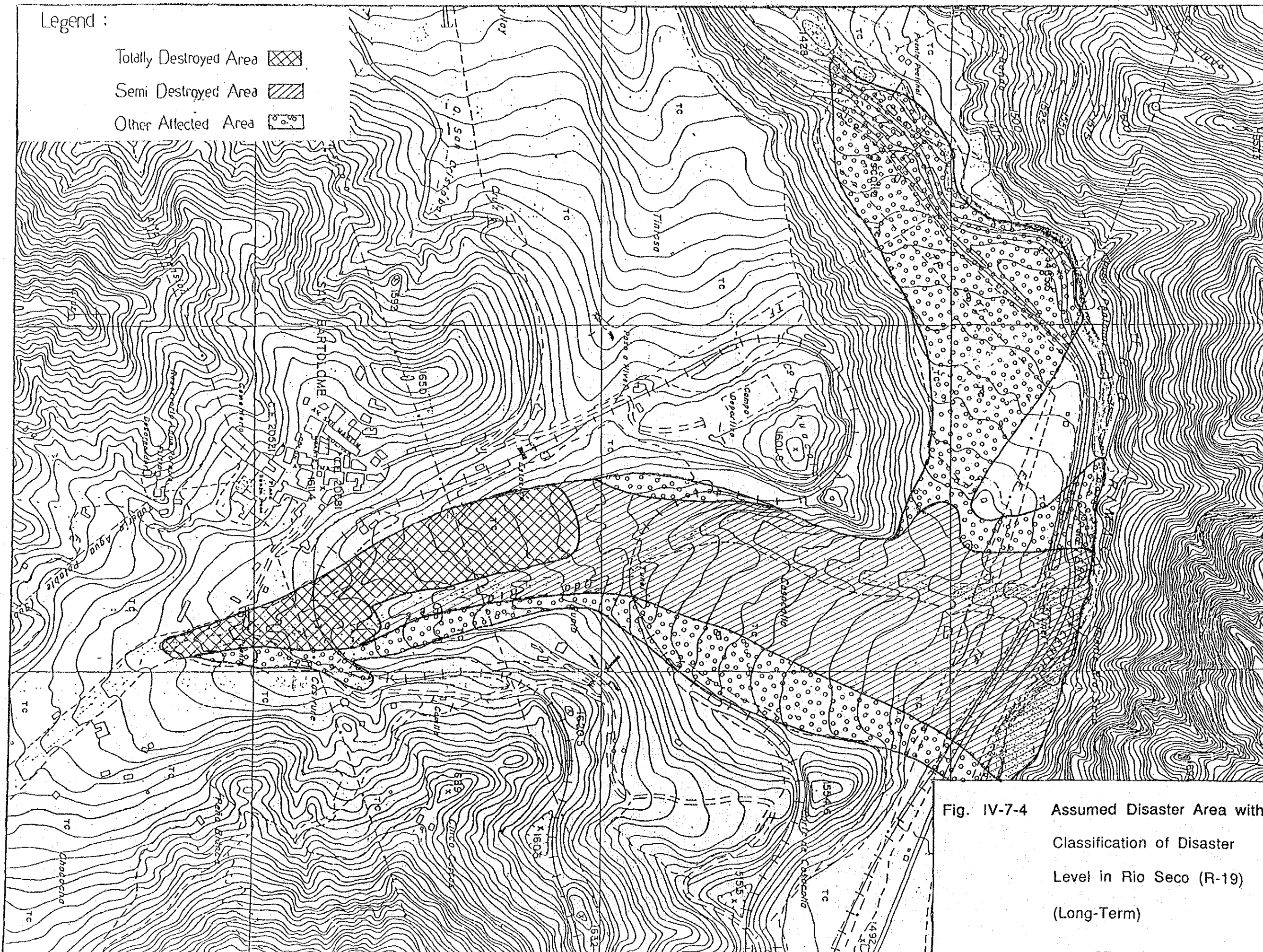


Fig. IV-7-4 Assumed Disaster Area with Classification of Disaster Level in Rio Seco (R-19) (Long-Term)

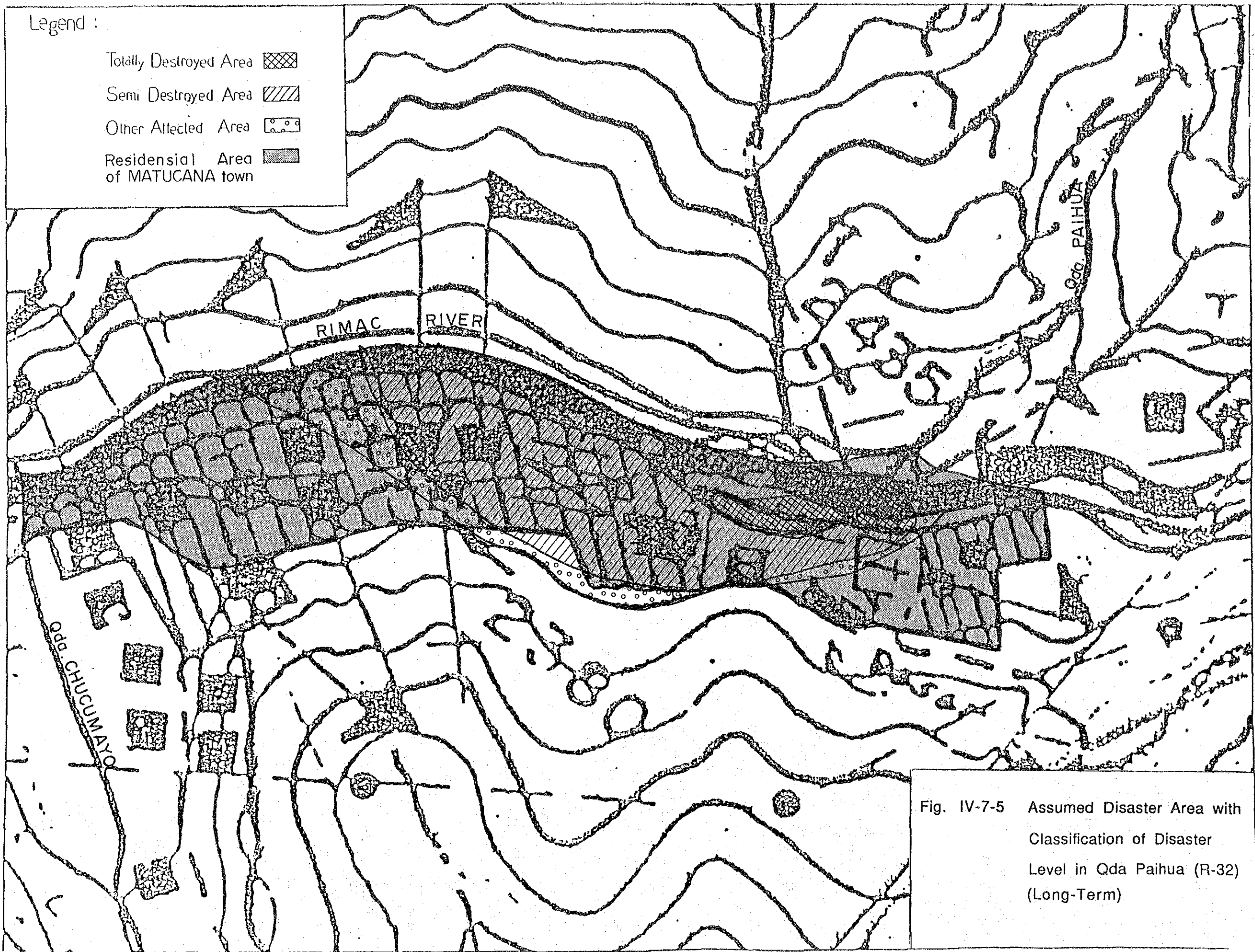


Fig. IV-7-5 Assumed Disaster Area with Classification of Disaster Level in Qda Paihua (R-32) (Long-Term)