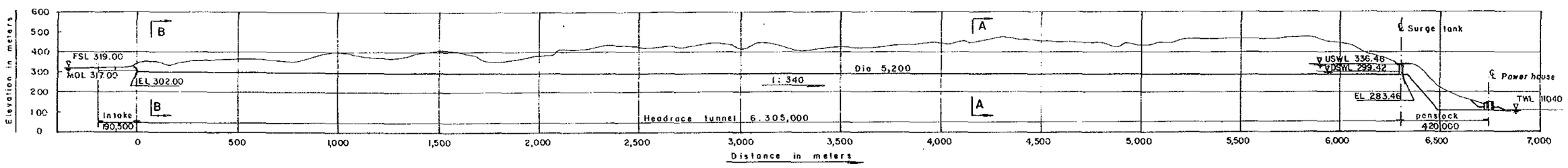
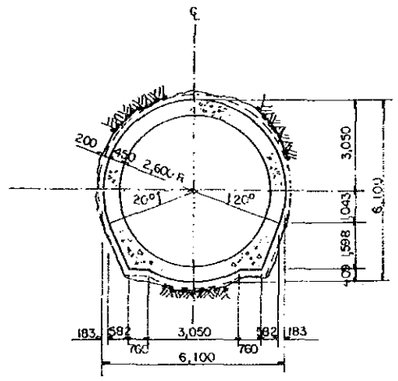
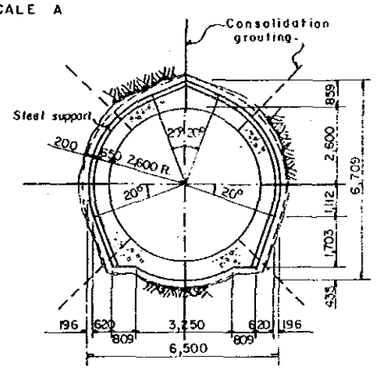
PLAN SCALE A



PROFILE SCALE A



SECTION A-A



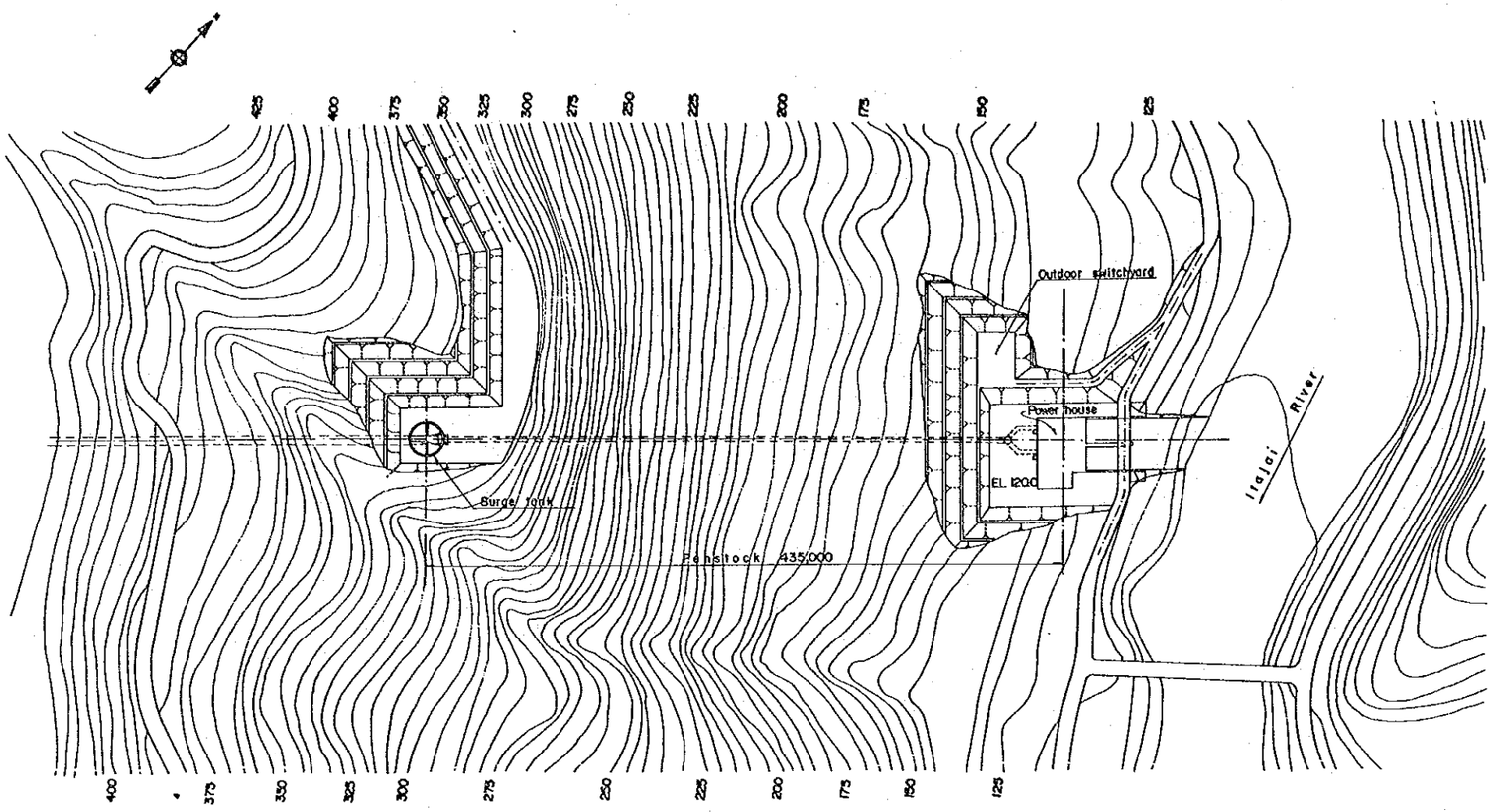
SECTION B-B

SCALE A 0 1,000m

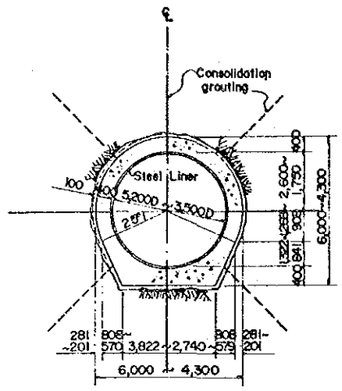
SCALE B 0 10 m

TYPICAL SECTION OF HEADRACE TUNNEL SCALE B

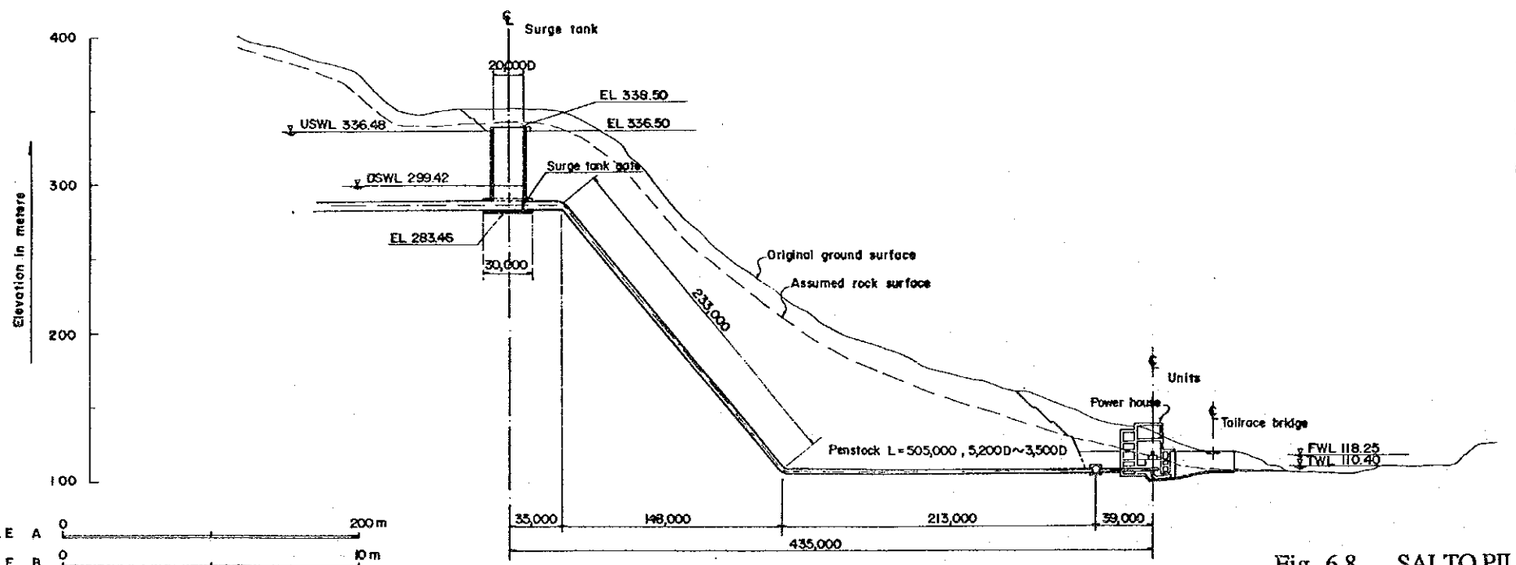
Fig. 6.7 SALTO PILÃO (1) HYDROPOWER SCHEME, GENERAL PLAN AND PROFILE OF WATERWAY



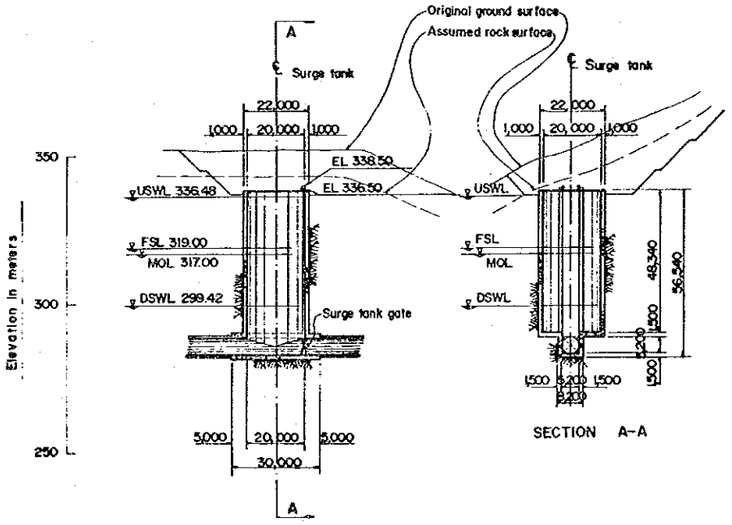
PLAN SCALE A



TYPICAL SECTION OF PENSTOCK TUNNEL SCALE B



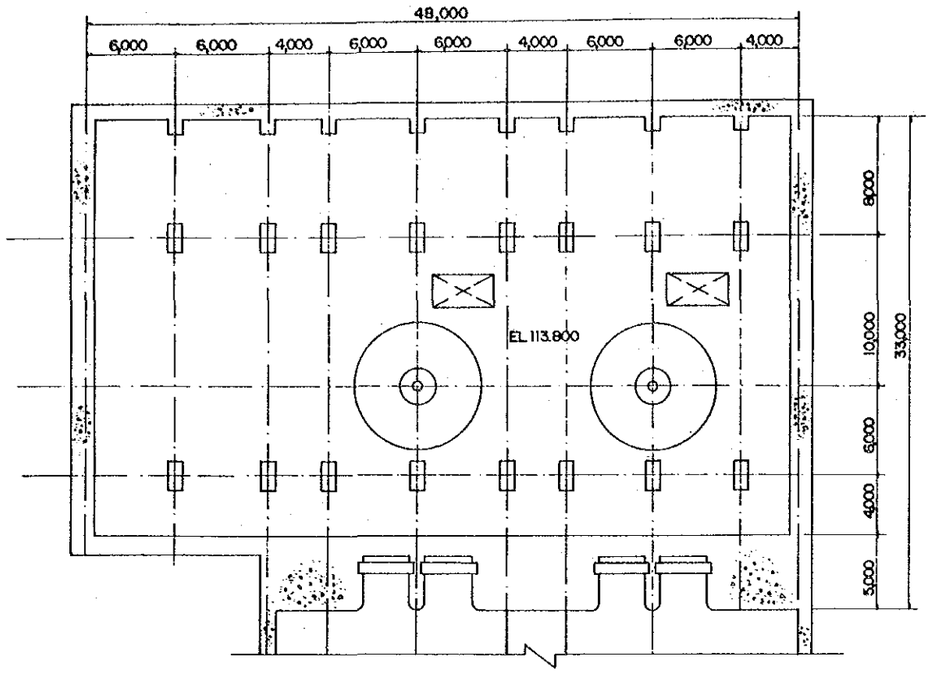
PROFILE SCALE A



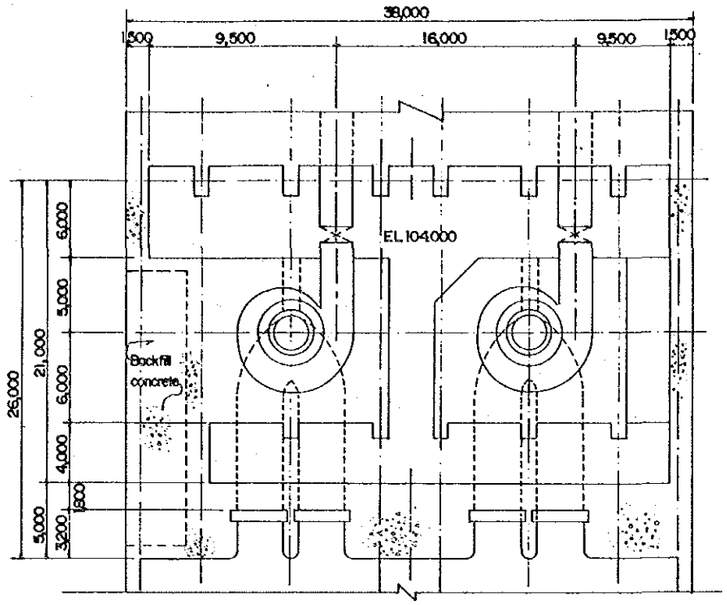
SURGE TANK SCALE C

SCALE A 0 200 m
SCALE B 0 10 m
SCALE C 0 100 m

Fig. 6.8 SALTO PILÃO (1) HYDROPOWER SCHEME, GENERAL PLAN AND PROFILE OF SURGE TANK AND PENSTOCK LINE

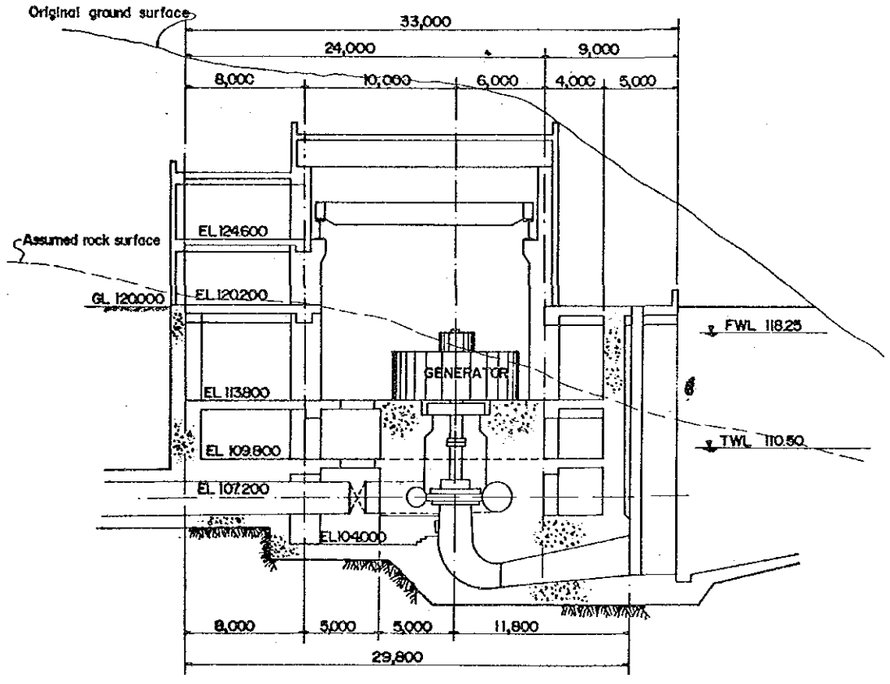


PLAN (EL 113.800)



PLAN (EL 107.200)

LONGITUDINAL SECTION



TRANSVERSE SECTION

SCALE 0 20m

Fig. 6.9 SALTO PILÃO (1) HYDROPOWER SCHEME, POWERHOUSE

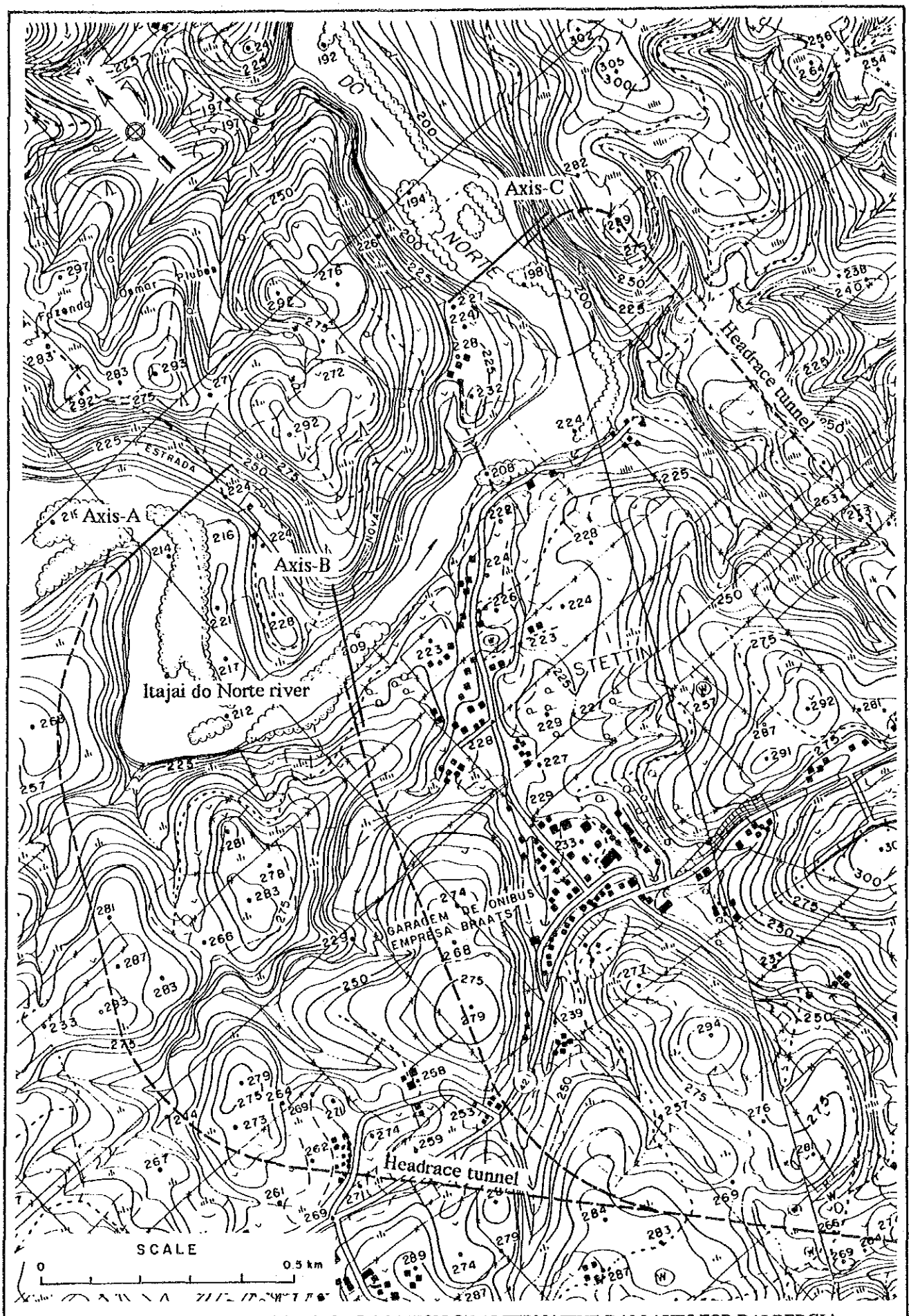


Fig. 6.10 LOCATION OF ALTERNATIVE DAM AXES FOR DALBERGIA HYDROPOWER SCHEME

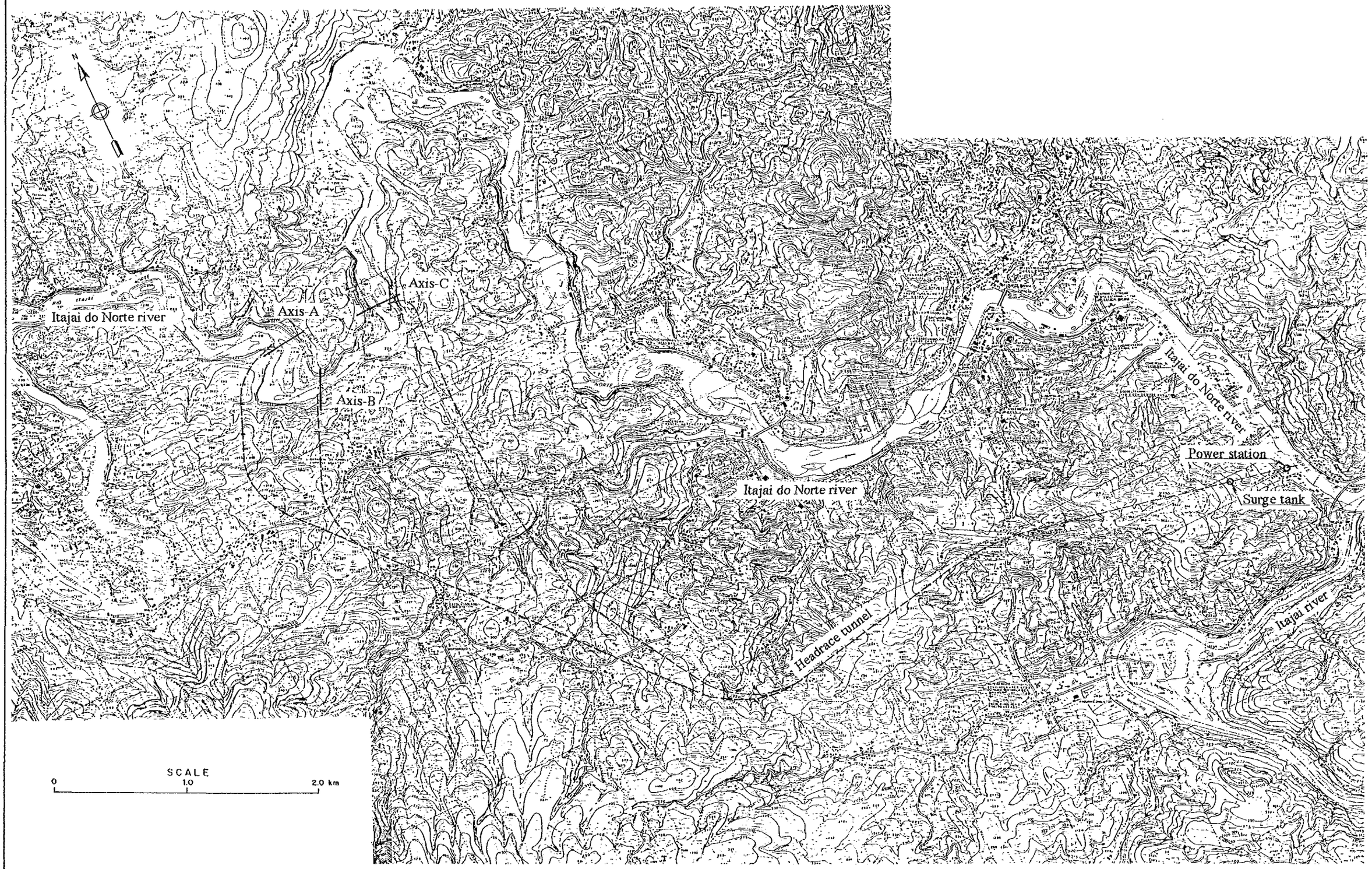


Fig. 6.11 GENERAL LAYOUT OF DALBERGIA HYDROPOWER SCHEME FOR COMPARATIVE STUDY

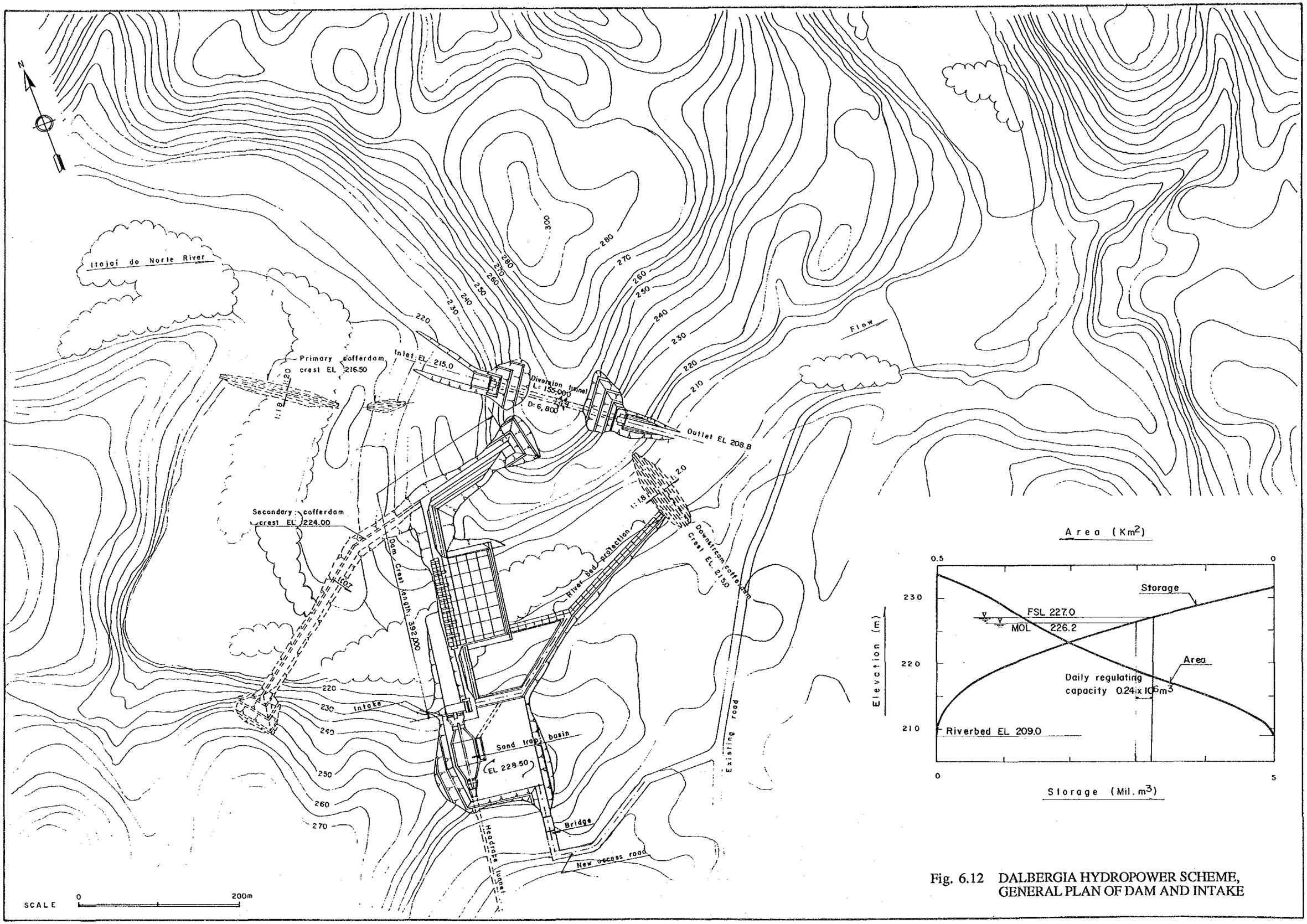
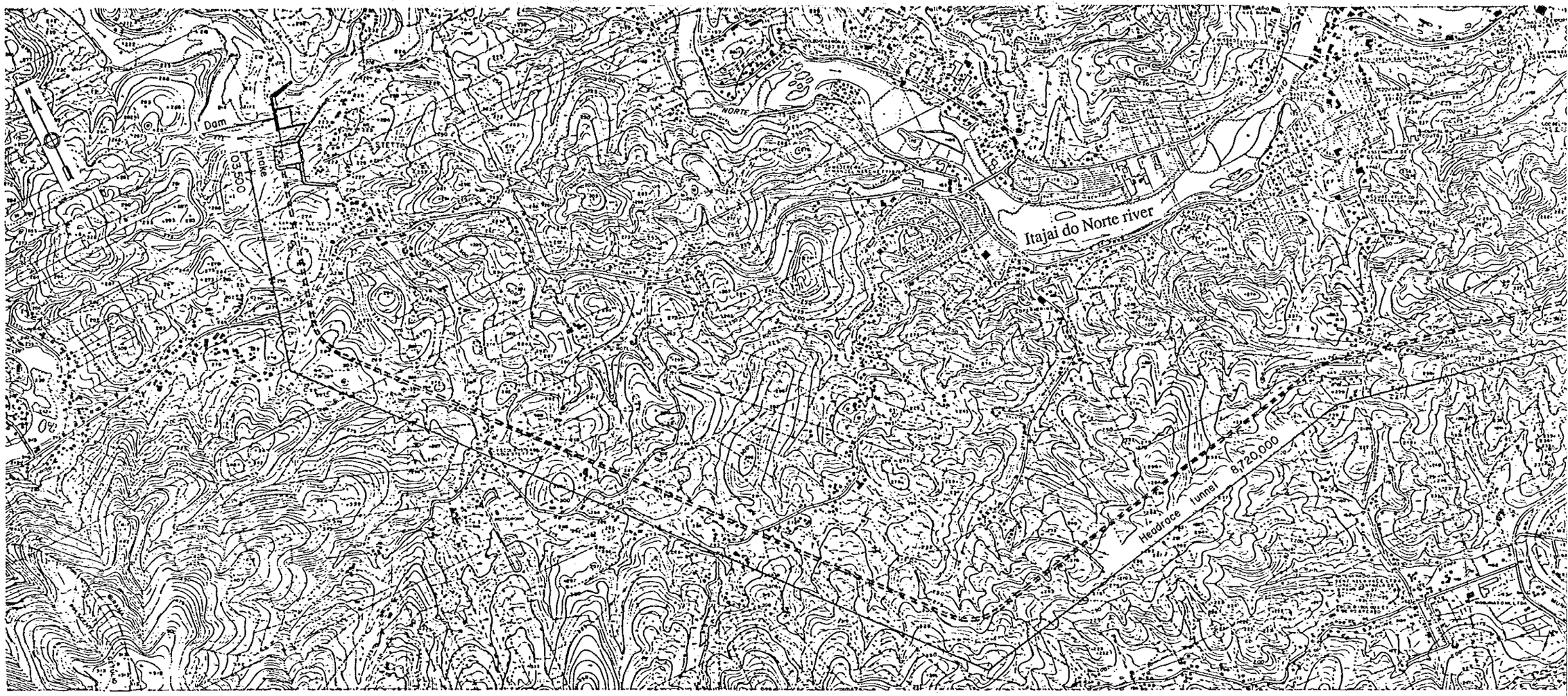
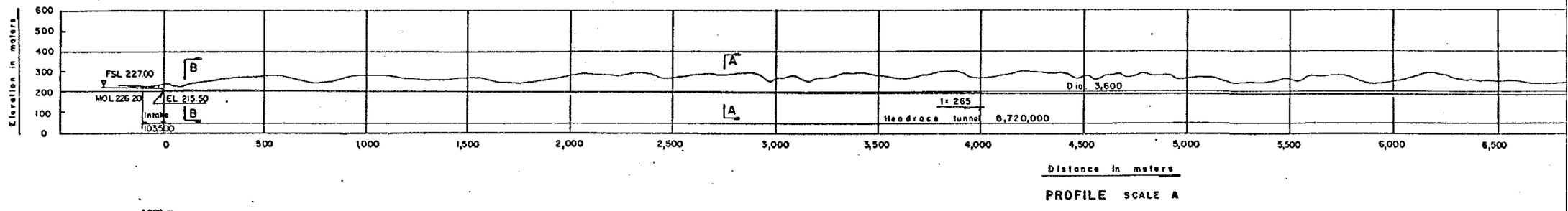


Fig. 6.12 DALBERGIA HYDROPOWER SCHEME, GENERAL PLAN OF DAM AND INTAKE



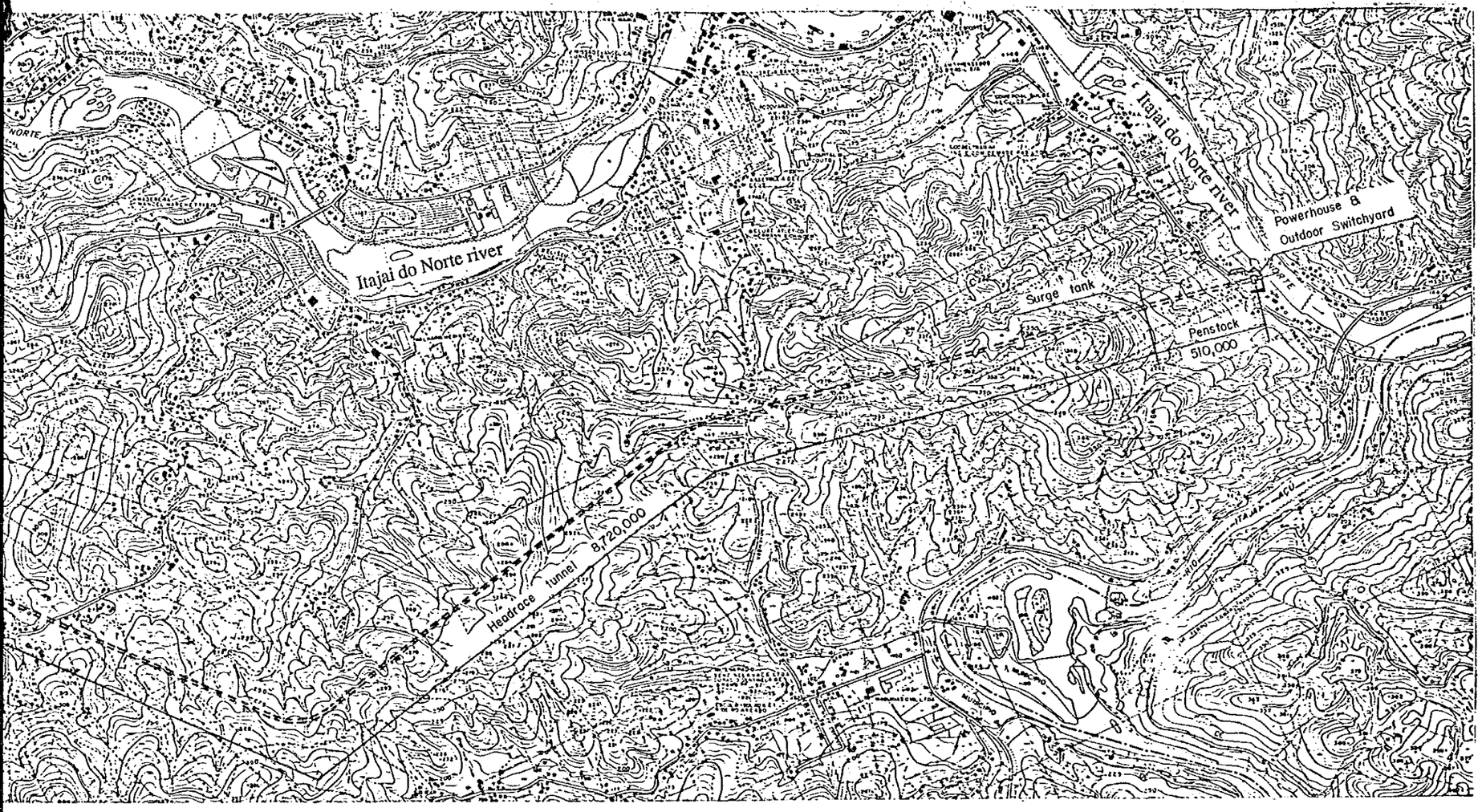
PLAN SCALE A



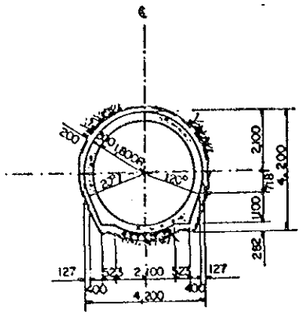
PROFILE SCALE A

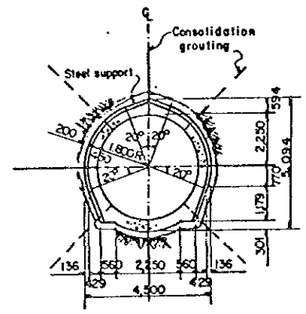
SCALE A 0 1,000 m

SCALE B 0 10 m

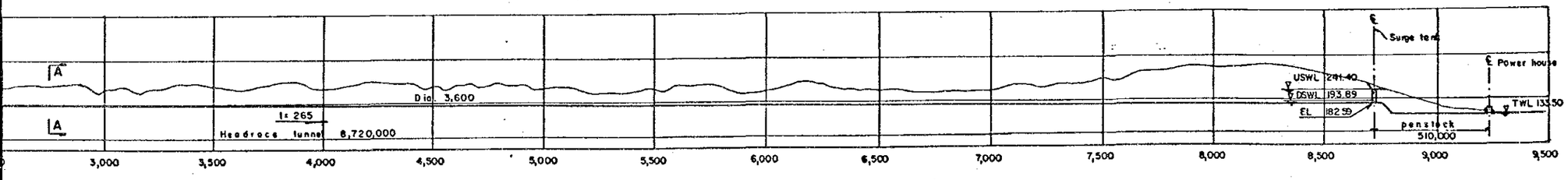


PLAN SCALE A



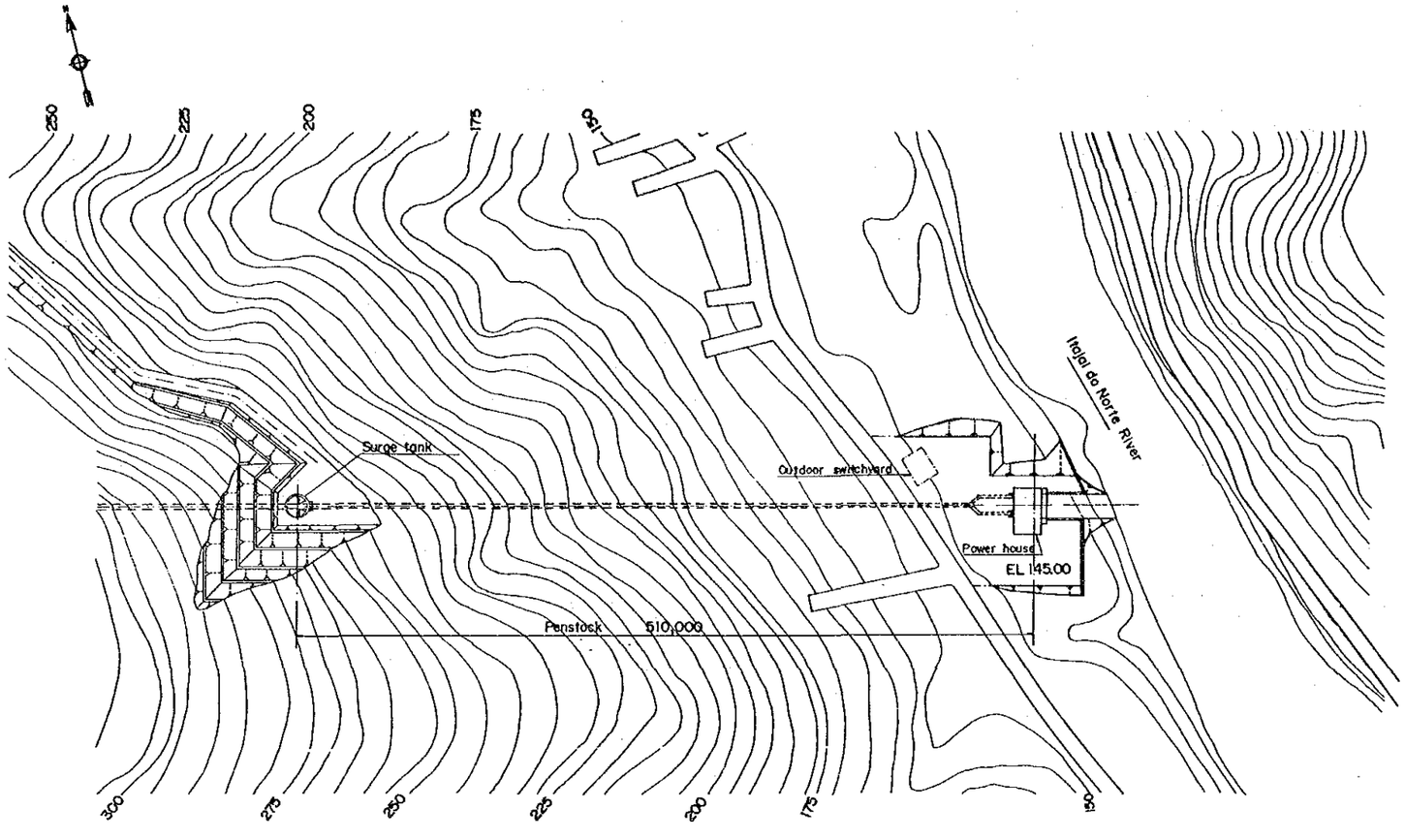


TYPICAL SECTION OF HEADRACE TUNNEL SCALE B

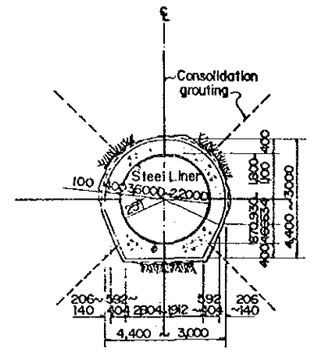


PROFILE SCALE A

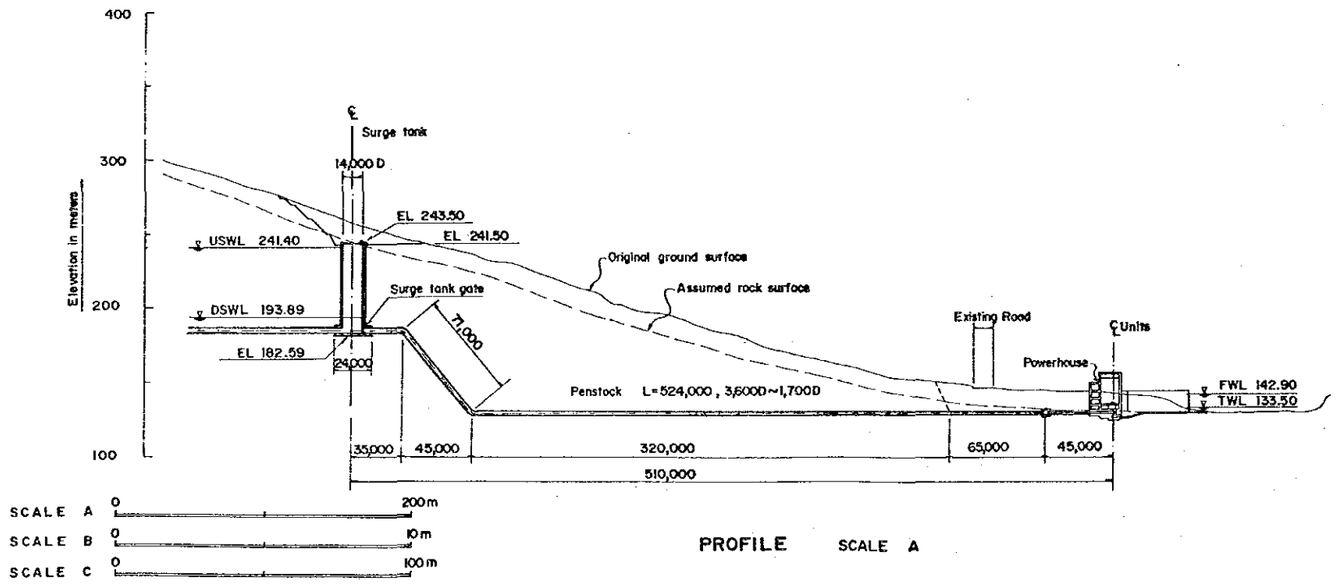
Fig. 6.13 DALBERGIA HYDROPOWER SCHEME, GENERAL PLAN AND PROFILE OF WATERWAY



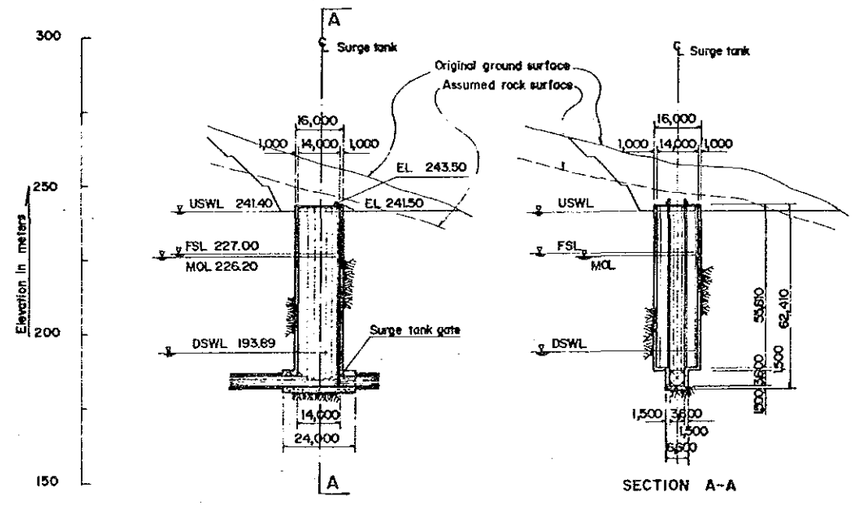
PLAN SCALE A



TYPICAL SECTION OF PENSTOCK TUNNEL SCALE B

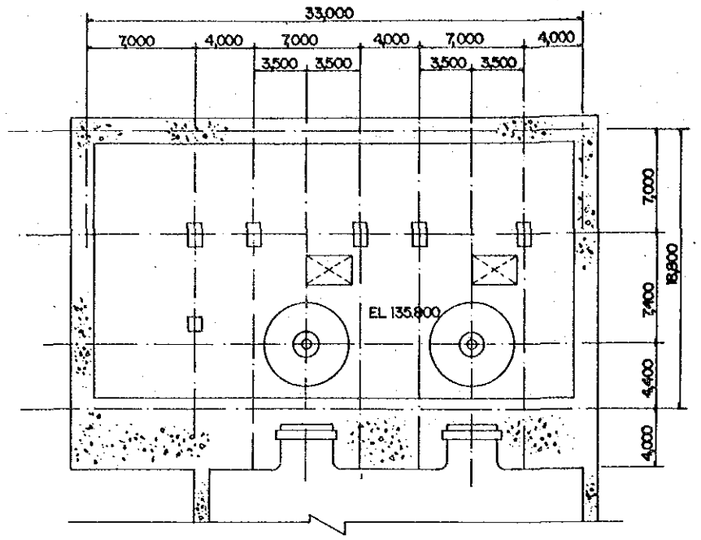


PROFILE SCALE A

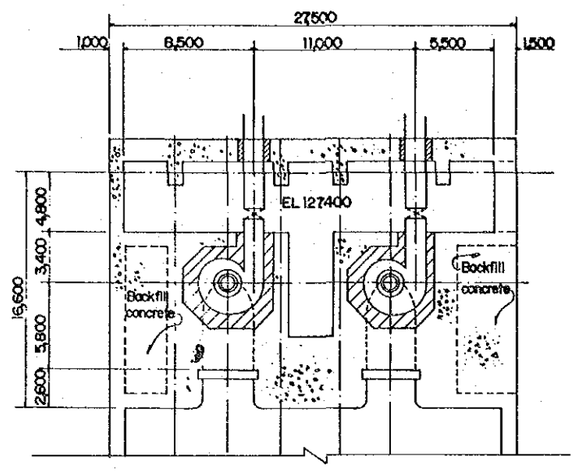


SURGE TANK SCALE C

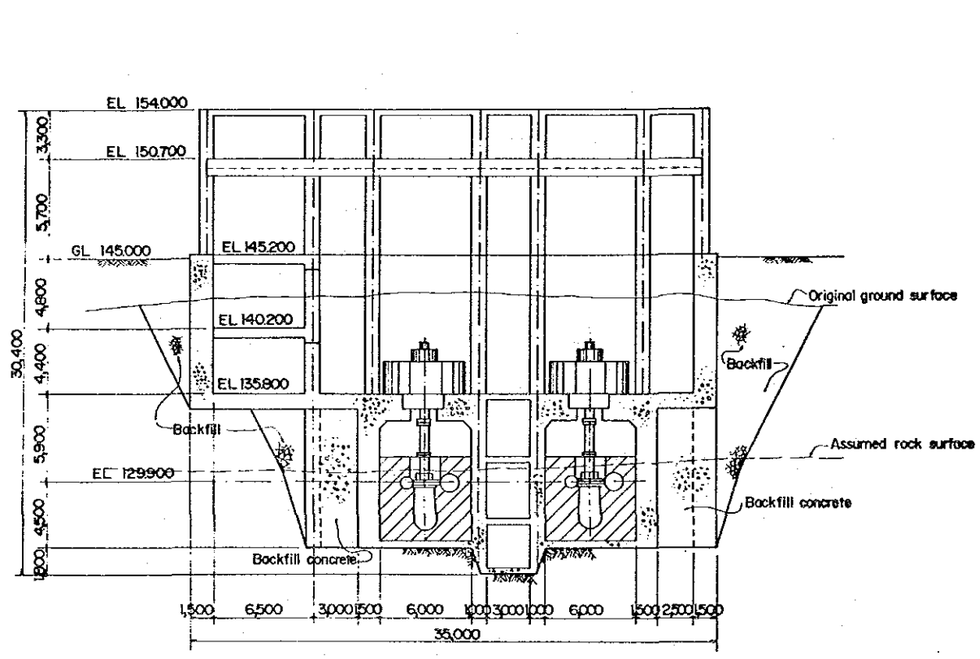
Fig. 6.14 DALBERGIA HYDROPOWER SCHEME, GENERAL PLAN AND PROFILE OF SURGE TANK AND PENSTOCK LINE



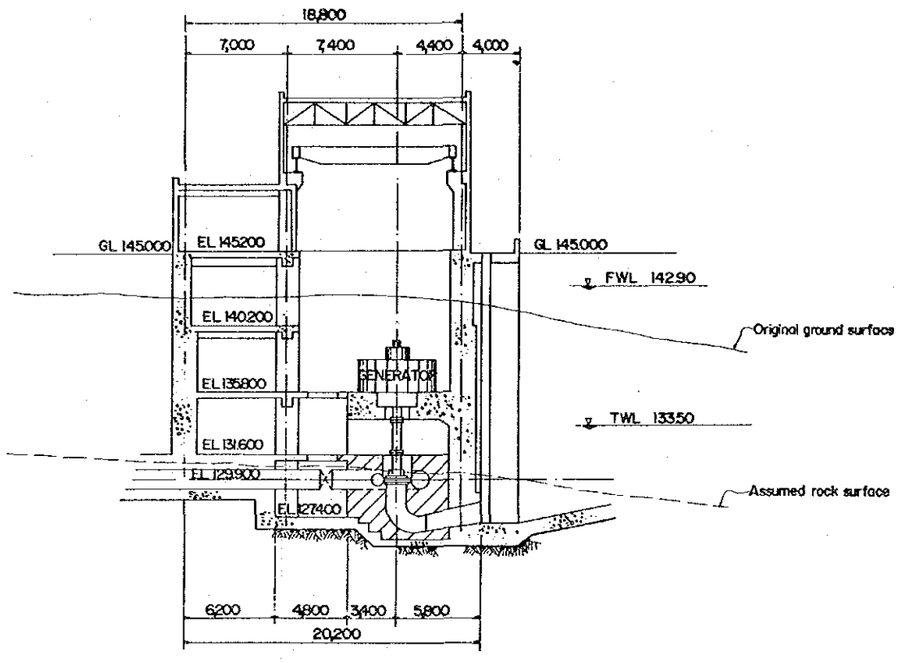
PLAN (EL 135,800)



PLAN (EL 129,900)



LONGITUDINAL SECTION



TRANSVERSE SECTION

SCALE 0 20m

Fig. 6.15 DALBERGIA HYDROPOWER SCHEME, POWERHOUSE

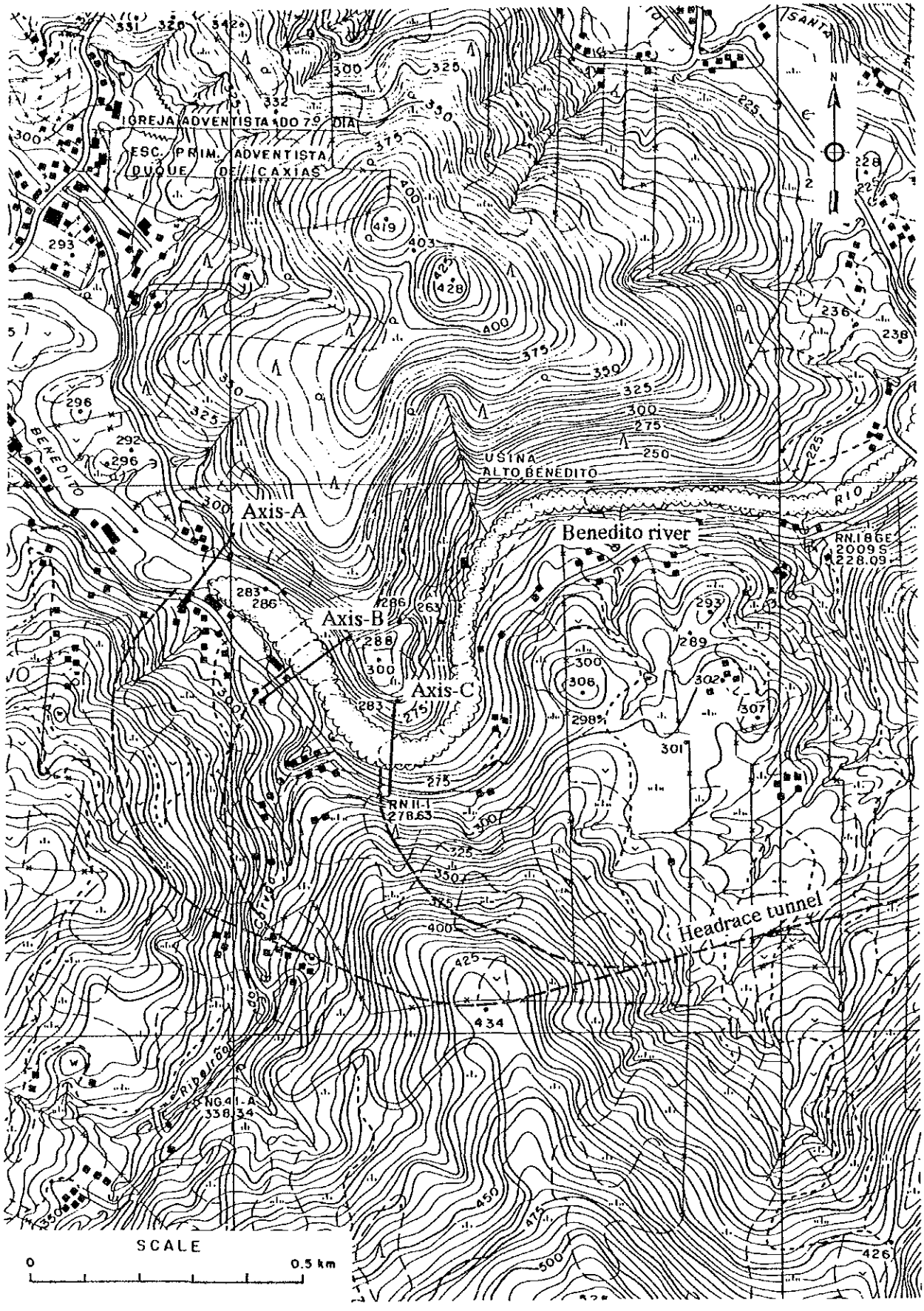


Fig. 6.16 LOCATION OF ALTERNATIVE DAM AXES FOR BENEDITO NOVO HYDROPOWER SCHEME

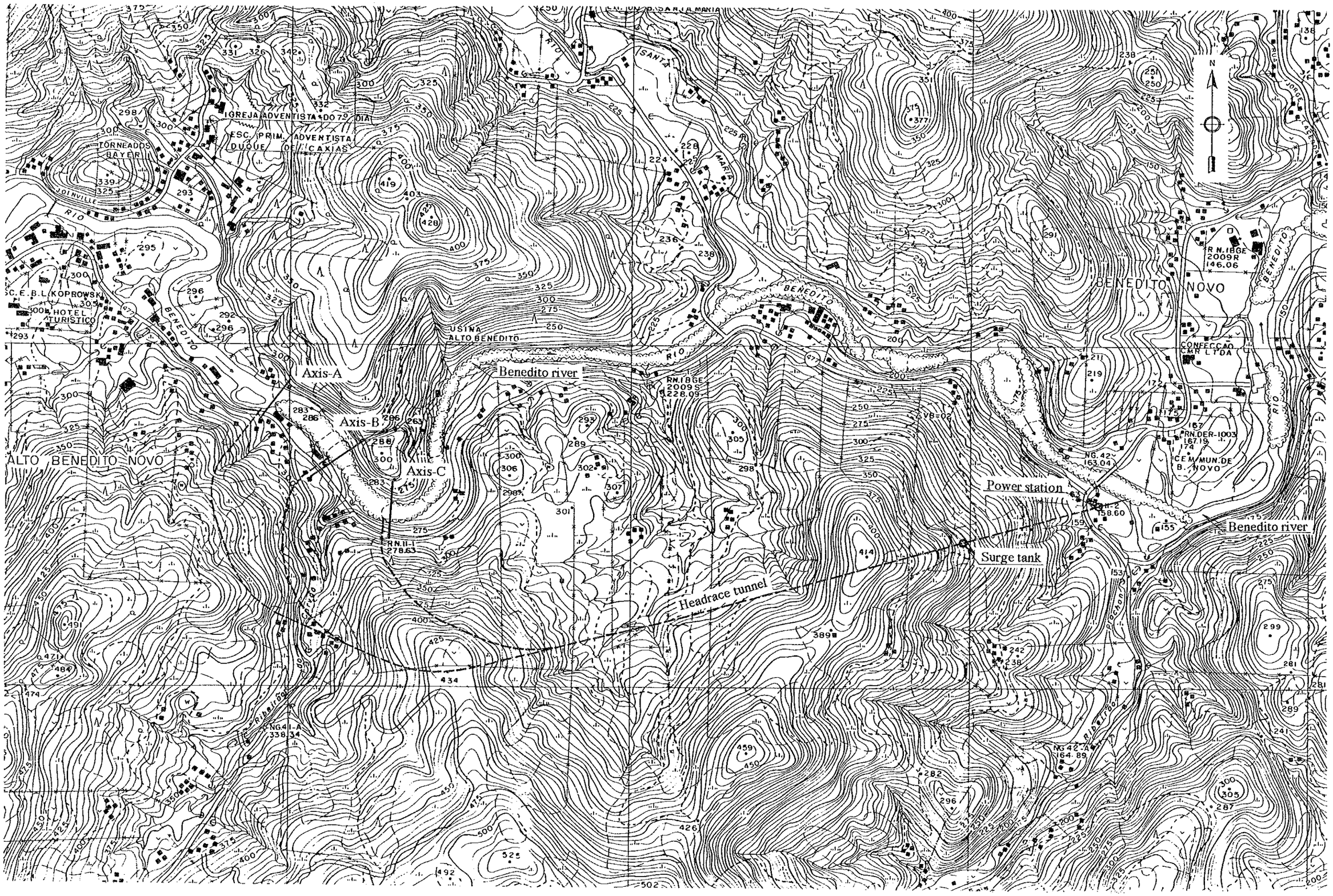


Fig. 6.17 GENERAL LAYOUT OF BENEDITO NOVO HYDROPOWER SCHEME FOR COMPARATIVE STUDY

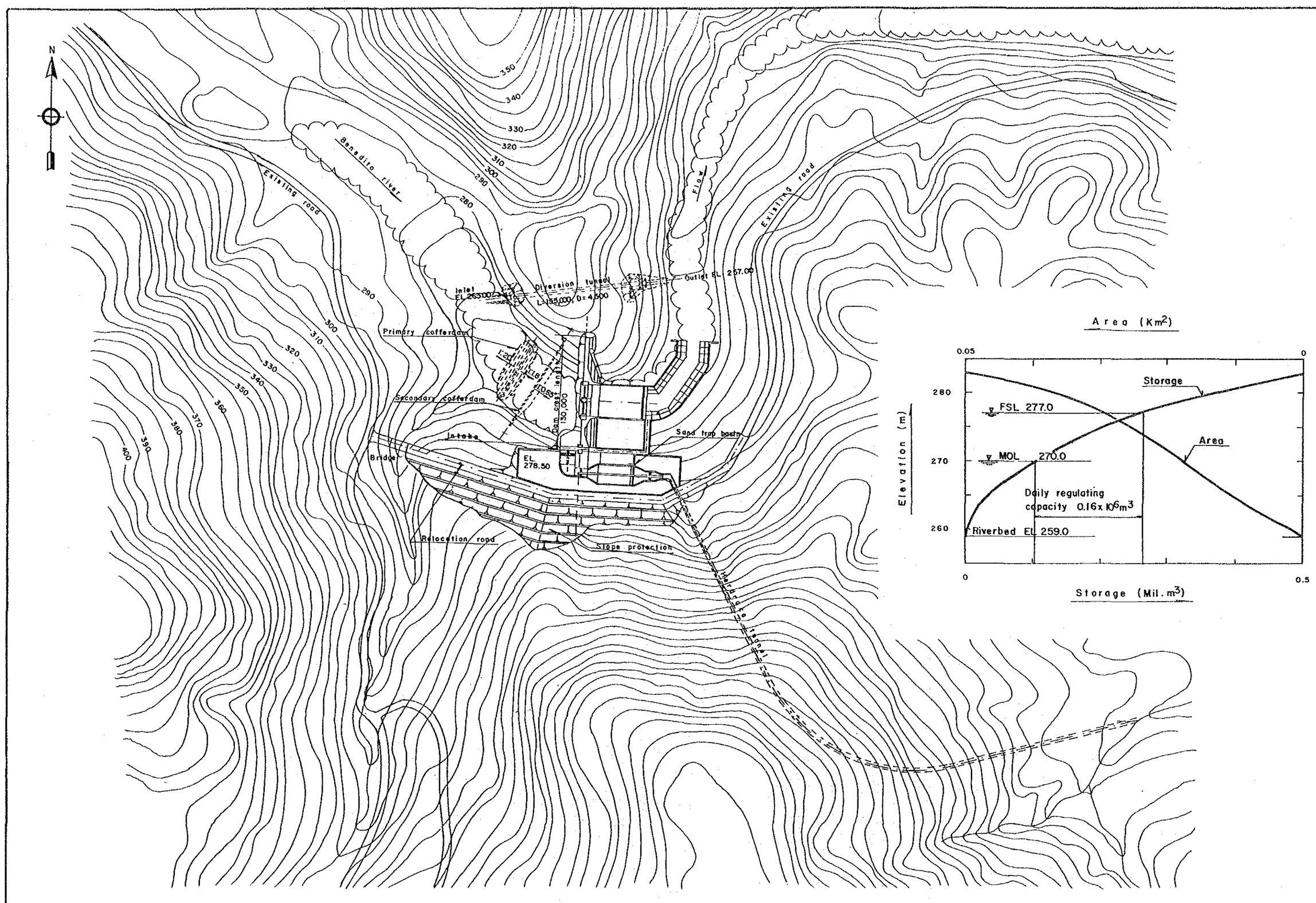
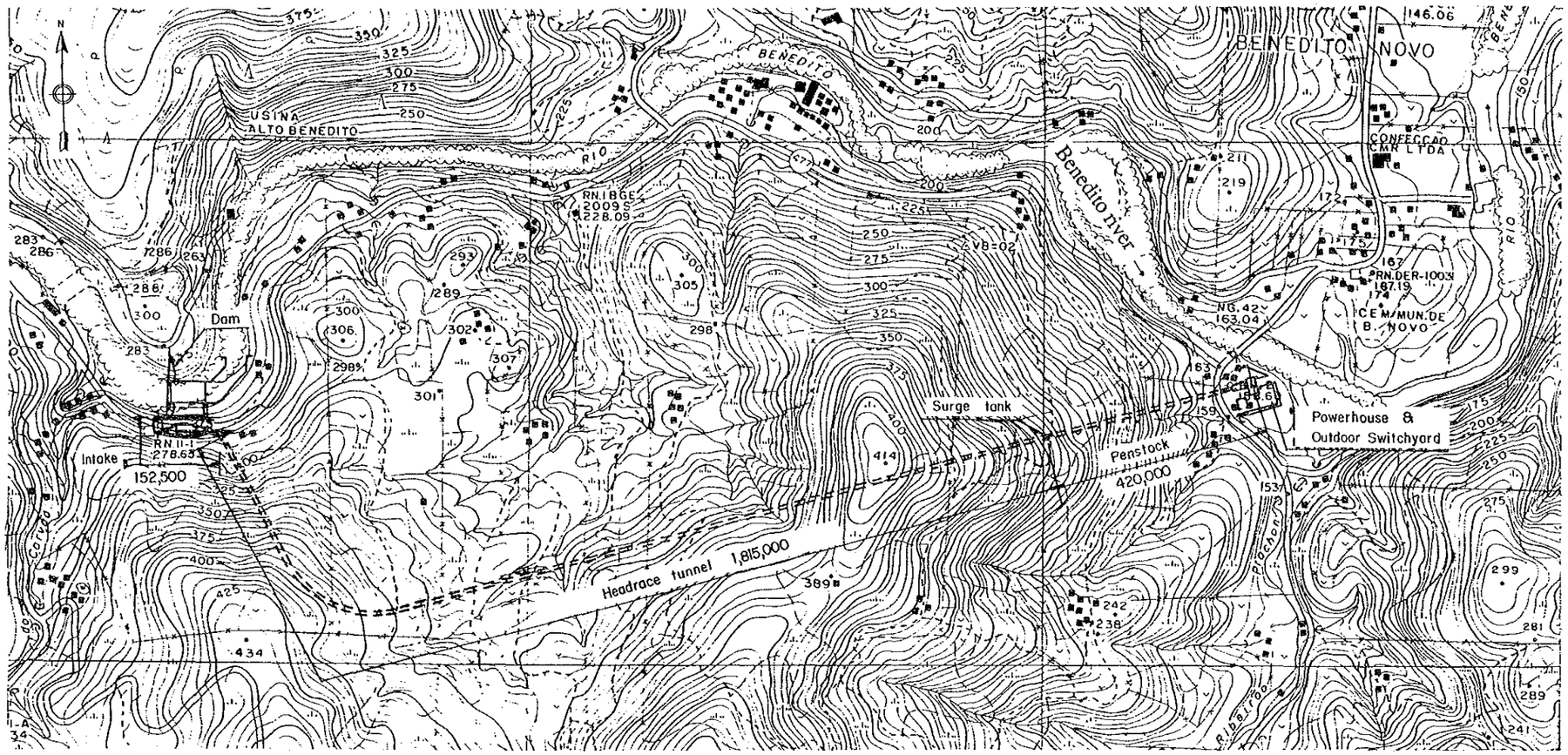
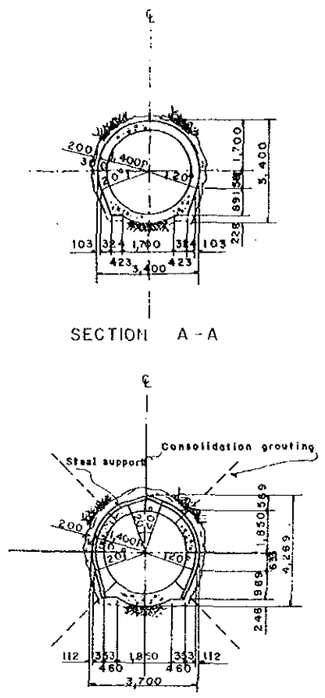


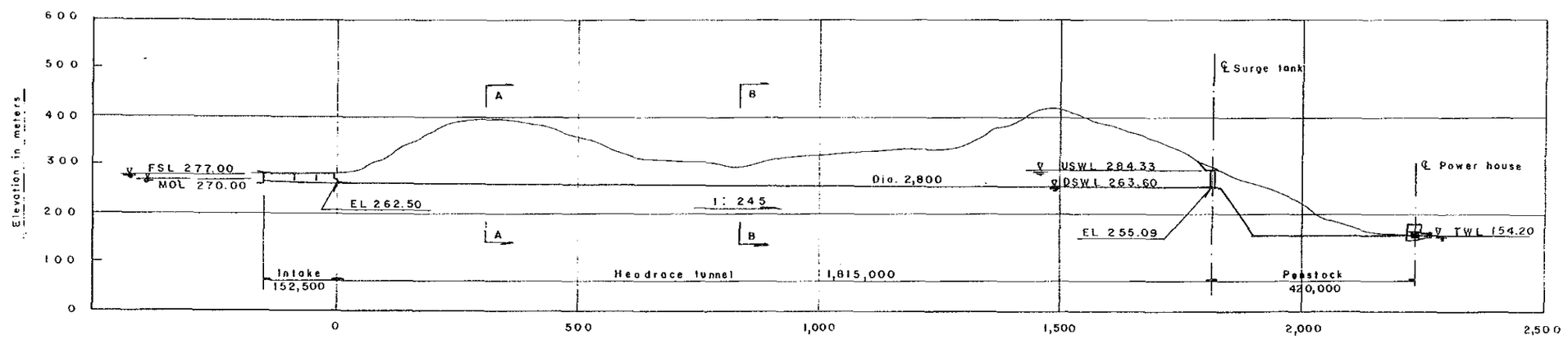
Fig. 6.18 BENEDITO NOVO HYDROPOWER SCHEME, GENERAL PLAN OF DAM AND INTAKE



PLAN SCALE A



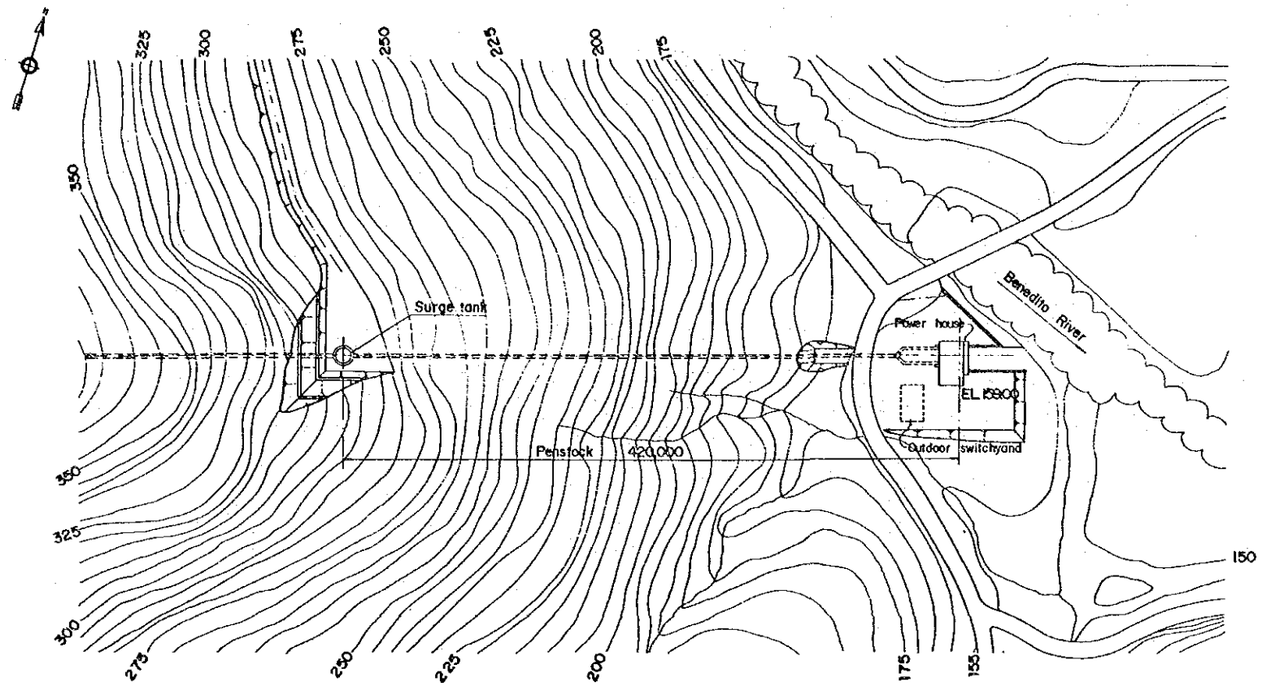
TYPICAL SECTION OF HEADRACE TUNNEL
SCALE B



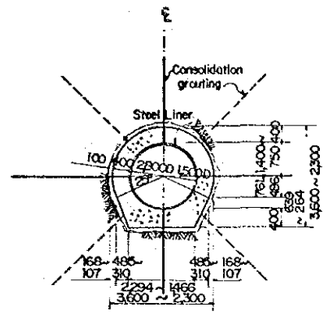
SCALE A 0 500 m
SCALE B 0 10 m

PROFILE SCALE A

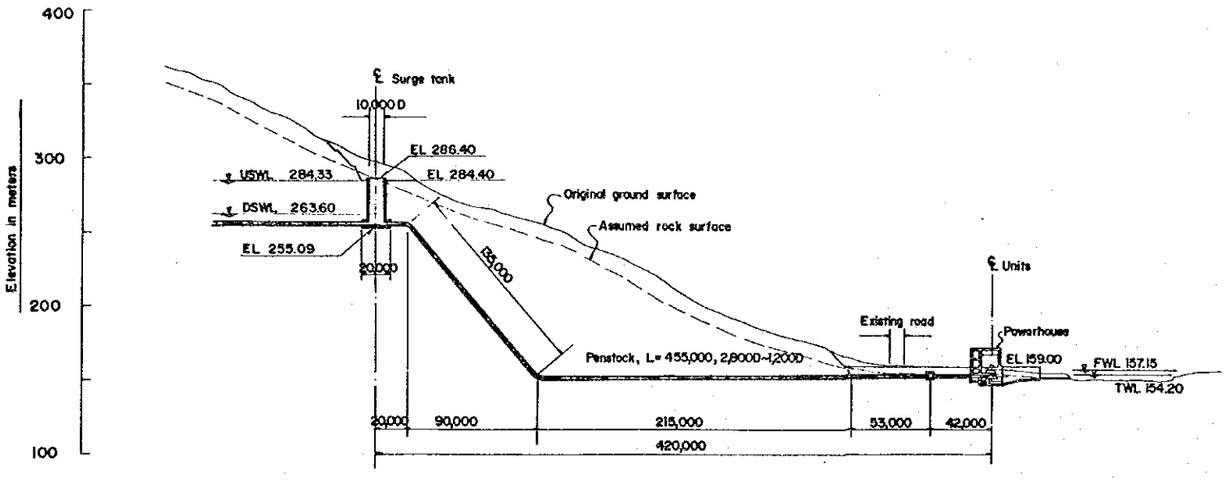
Fig. 6.19 BENEDITO NOVO HYDROPOWER SCHEME, GENERAL PLAN AND PROFILE OF WATERWAY



PLAN SCALE A

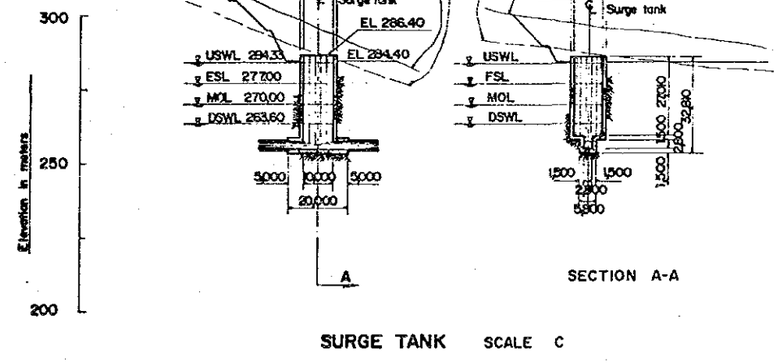


TYPICAL SECTION OF PENSTOCK TUNNEL SCALE B



PROFILE SCALE A

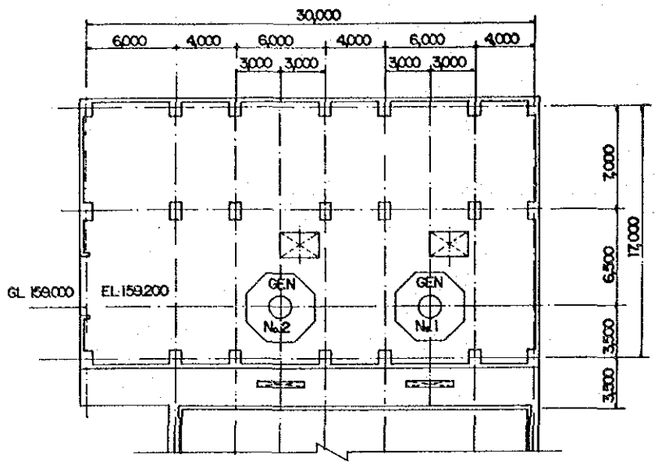
SCALE A 0 200m
SCALE B 0 10m
SCALE C 0 100m



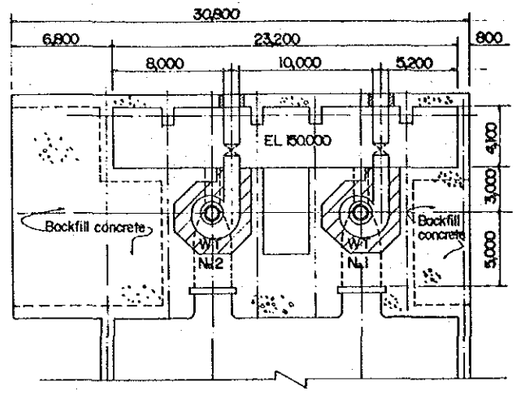
SECTION A-A

SURGE TANK SCALE C

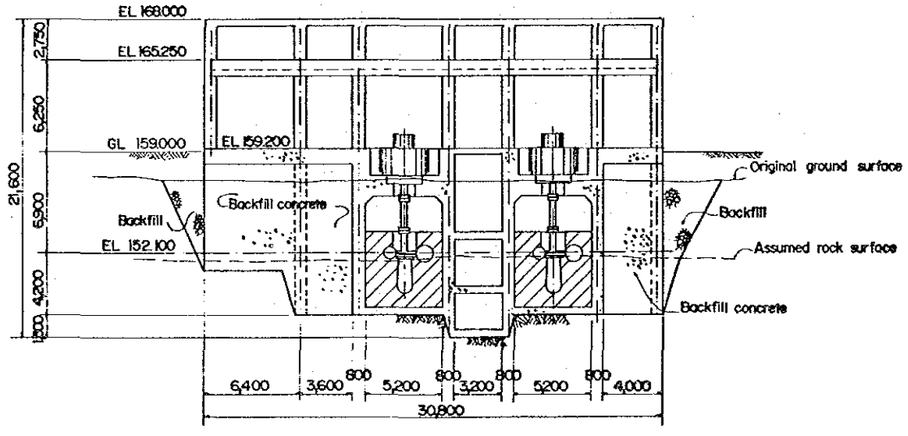
Fig. 6.20 BENEDITO NOVO HYDROPOWER SCHEME, GENERAL PLAN AND PROFILE OF SURGE TANK AND PENSTOCK LINE



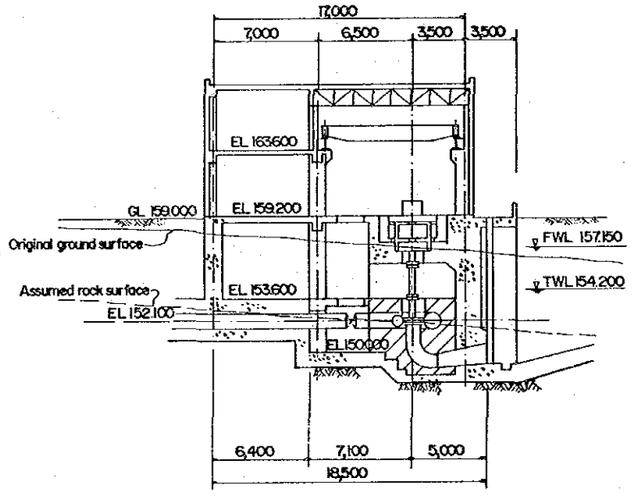
PLAN (EL 159.200)



PLAN (EL 152.100)



LONGITUDINAL SECTION



TRANSVERSE SECTION

SCALE 0 20m

Fig. 6.21 BENEDITO NOVO HYDROPOWER SCHEME, POWERHOUSE

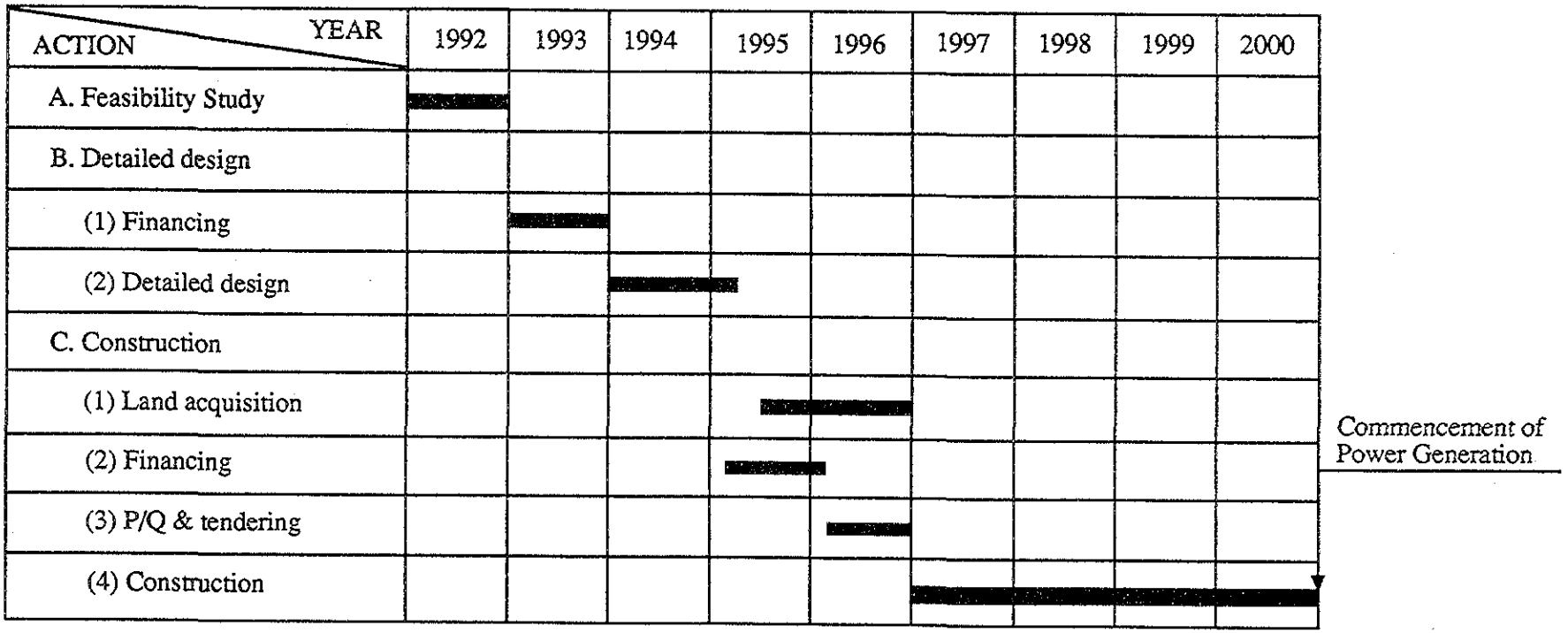


Fig. 7.1 IMPLEMENTATION SCHEDULE FOR SALTO PILÃO (1) HYDROPOWER SCHEME

Description	Unit	Quantity
1. Preparatory Works		
2. River Diversion		
a. Diversion tunnel	m	560
b. Coffering	m^3	32,300 (Secondary)
3. Dam and Spillway		
a. Excavation	m^3	110,400
b. Grouting	m	9,400
c. Concrete	m^3	71,000
d. Installation of gates	t	1,095
4. Intake		
a. Excavation	m^3	316,900
b. Concrete	m^3	40,800
c. Installation of gates	t	196
5. Headrace Tunnel		
a. Excavation	m^3	217,000
b. Concrete	m^3	57,300
6. Surge Tank		
a. Excavation	m^3	183,200
b. Concrete	m^3	4,150
7. Penstock		
a. Excavation	m^3	19,000
b. Installation of penstock pipe	m	500
c. Concrete	m^3	4,100
8. Powerhouse and Tailrace		
- Substructure and Tailrace		
a. Excavation	m^3	282,400
b. Concrete	m^3	25,000
- Superstructure		
9. Switchyard		
10. Installation of Generating Equipment and Testing		2 Units
11. Transmission Line	Km	7

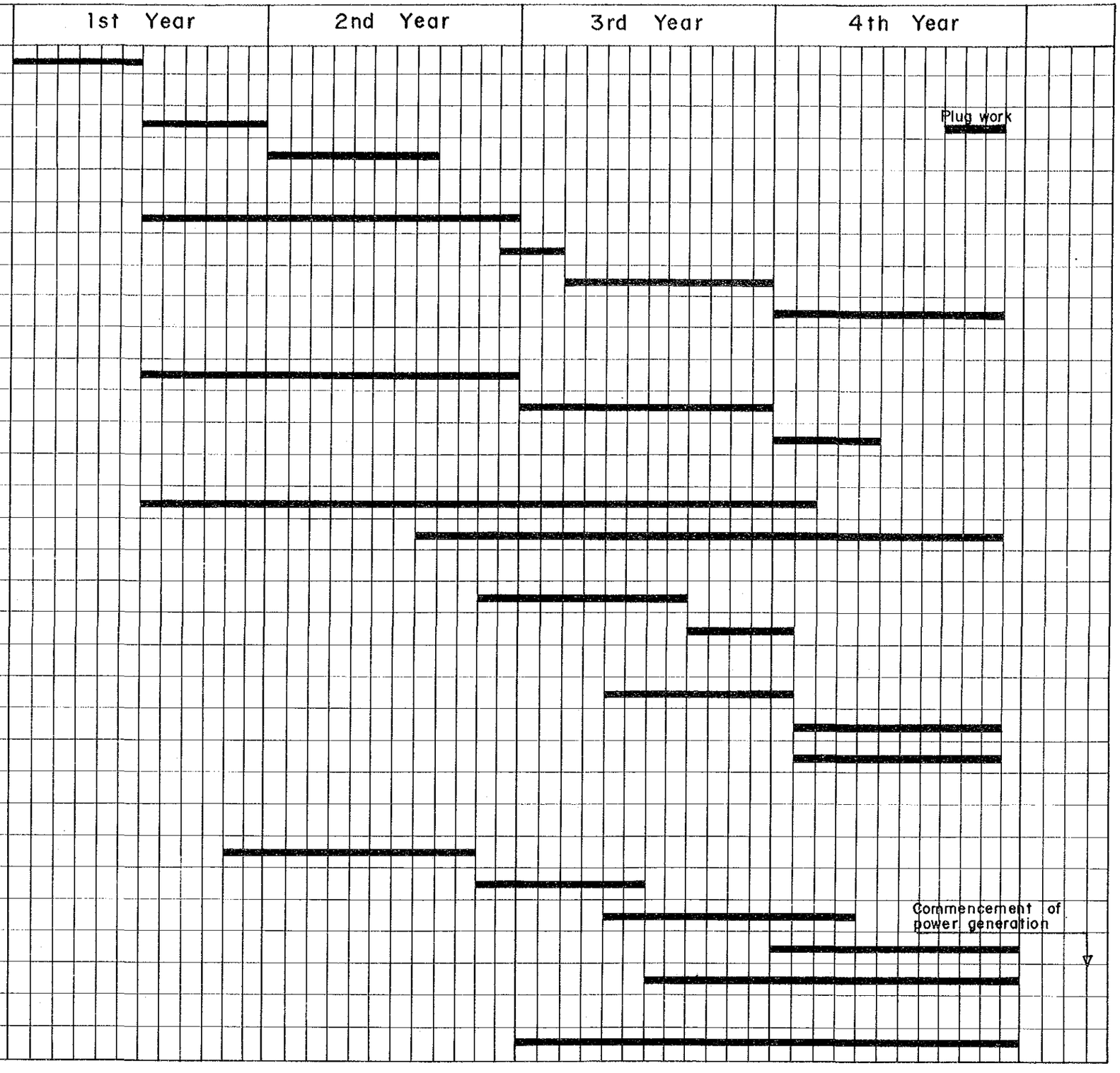


Fig. 7.2 CONSTRUCTION TIME SCHEDULE FOR SALTO PILÃO (1) HYDROPOWER SCHEME

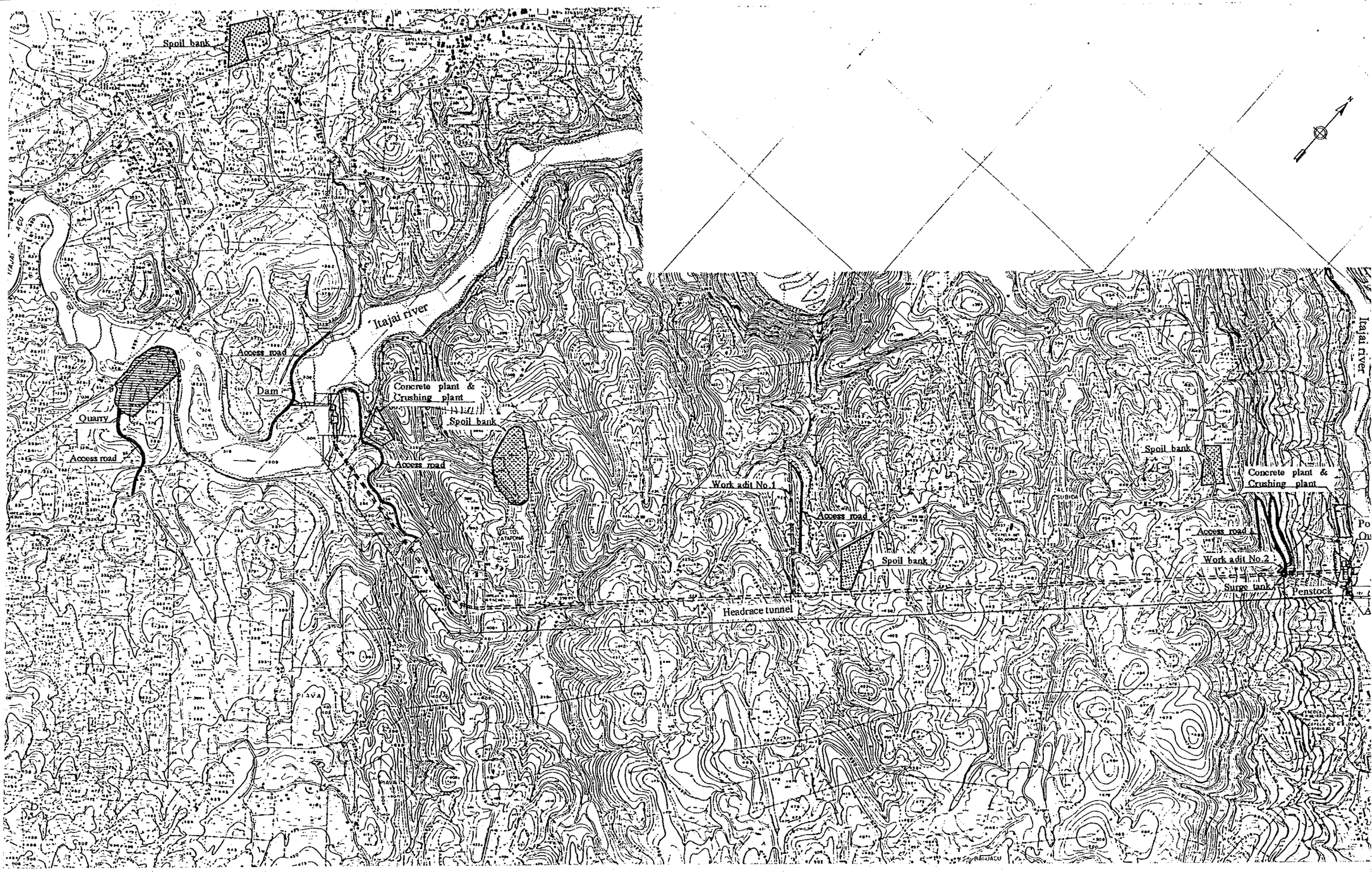


Fig. 7.3 GENERAL PLAN OF PROJECT FACILITIES FOR SALTO PILÃO (1) HYDROPOWER SC

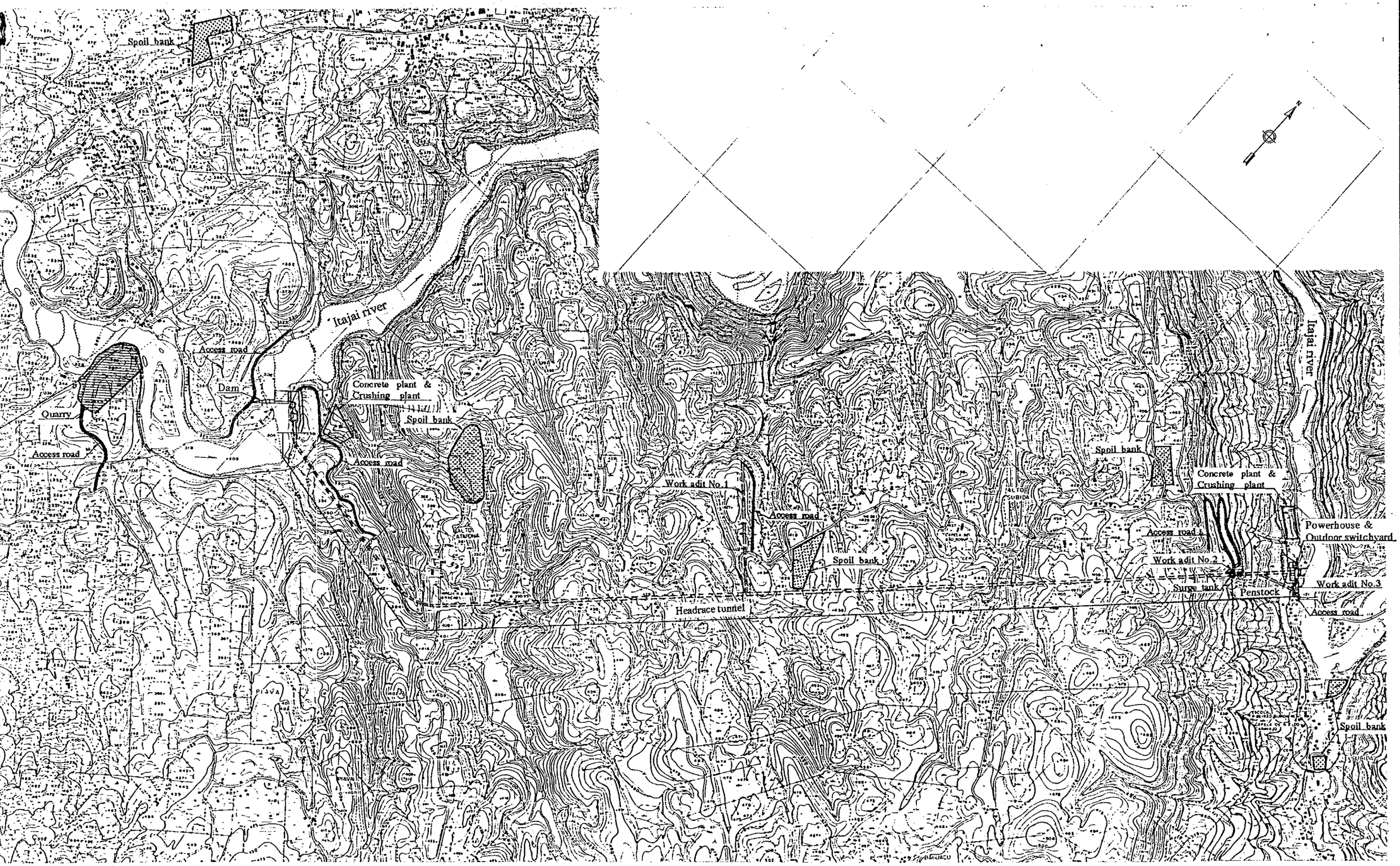


Fig. 7.3 GENERAL PLAN OF PROJECT FACILITIES FOR SALTO PILÃO (1) HYDROPOWER SCHEME