

*The Study on Water Resources Development for  
Metro Manila in the Republic of the Philippines  
Final Report  
Executive Summary*

# ***Figures***

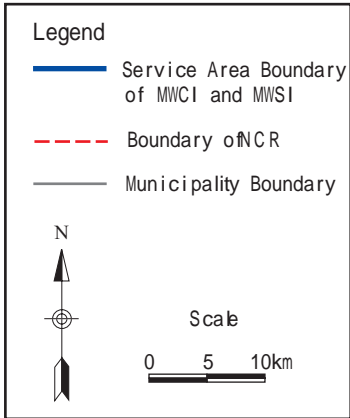
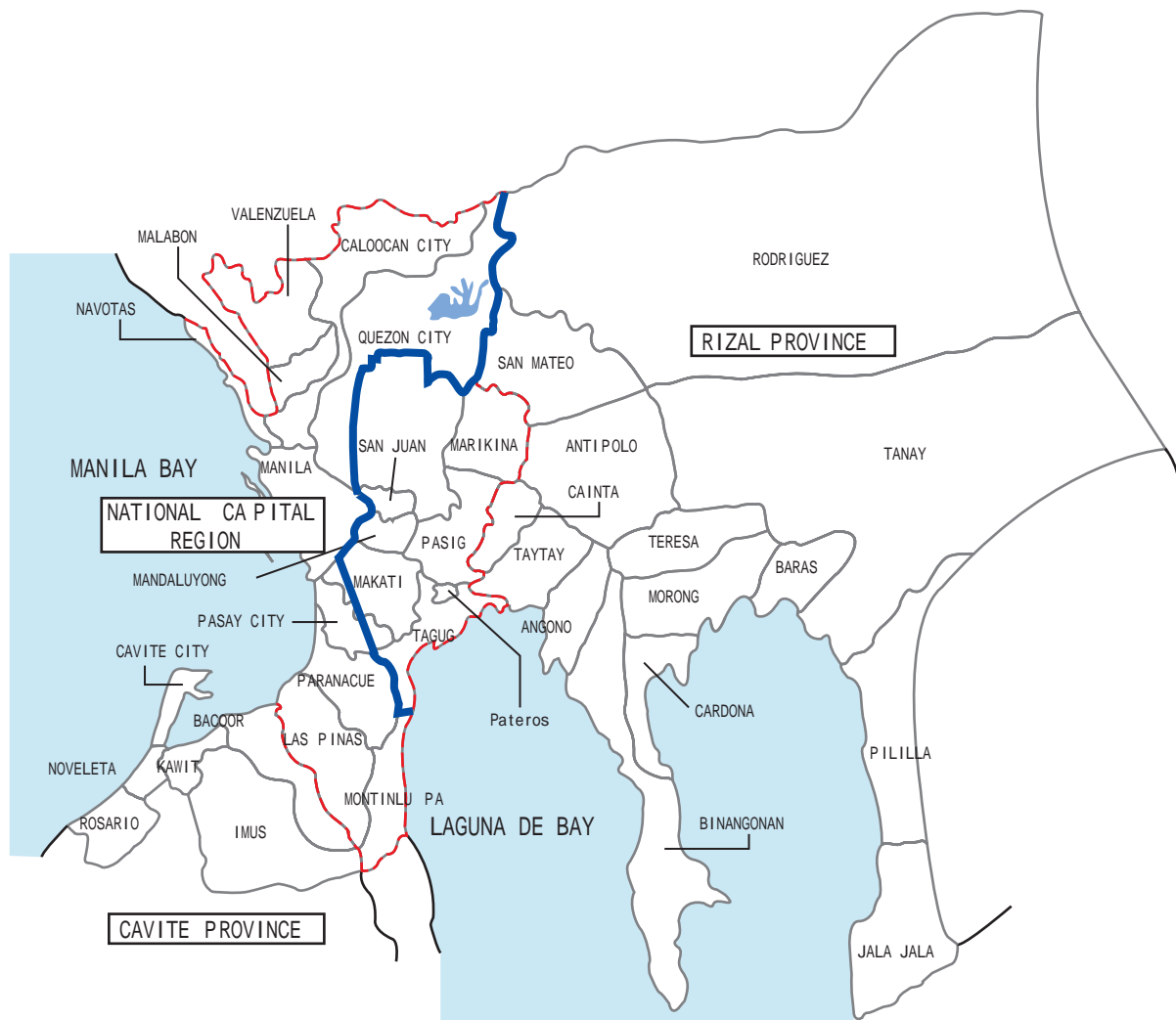
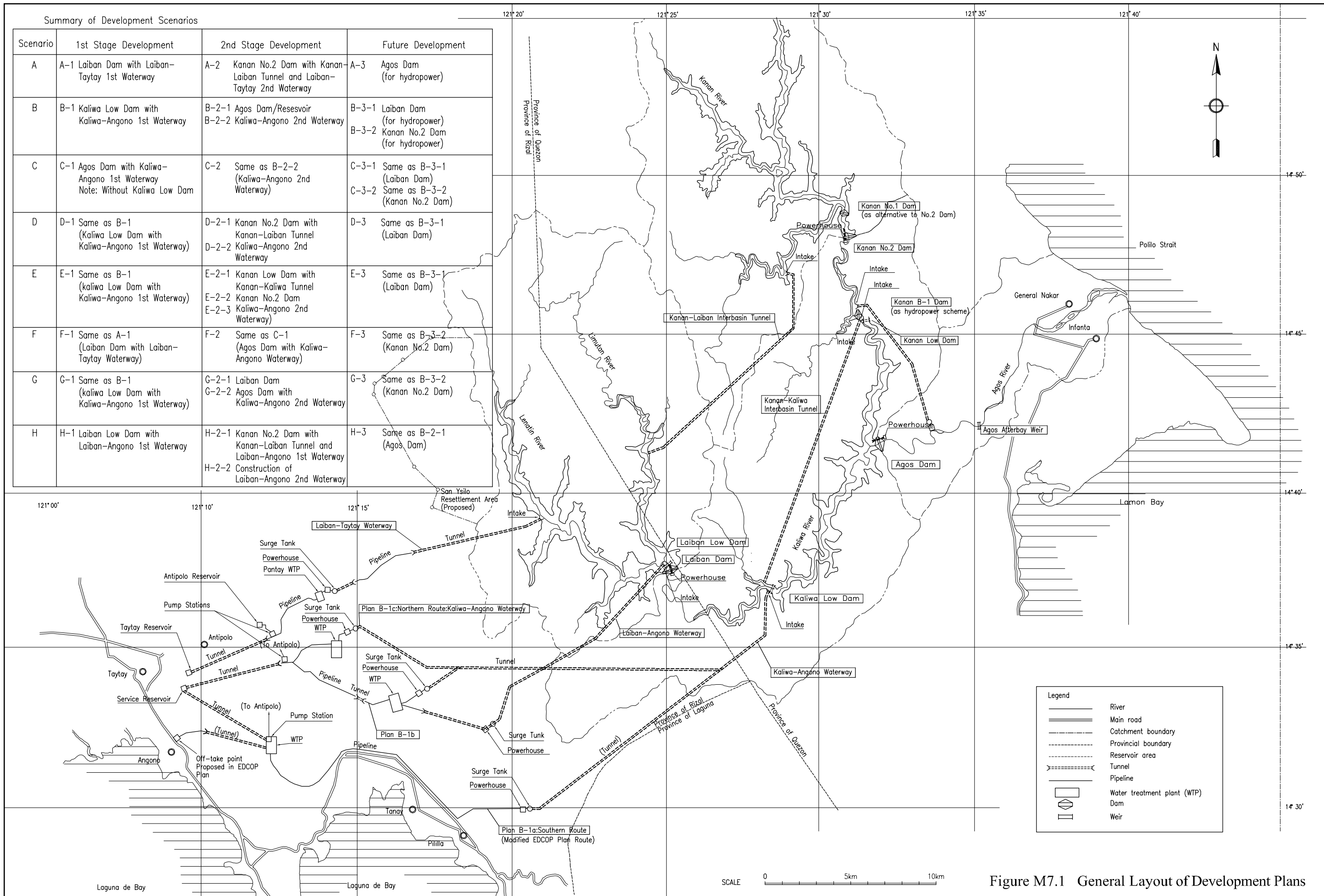


Figure M1.1 Service Area of MWCI and MWSI



PROPOSED MASTER PLAN

I. Master Development Plan towards Year 2025	II. Optional Development Plan
<b>Water Supply Development:</b> W-1 Water Supply Development Project with Agos Dam -Stage1: Kaliwa Low Dam+1st Waterway+WTP#1 -Stage2-1: Agos Dam+WTP#2 -Stage2-2: 2nd Waterway+WTP#3 and #4	<b>Optional Water Supply Development:</b> W-2 Water Supply Development Project with Laiban Dam (as alternative development option to be implemented in advance of W-1)
<b>Hydropower Development:</b> P-1 Abuyod Power Station 12.5MW P-2 Agos Power Station 85.6MW	<b>Optional Hydropower Development:</b> P-3 Kanan No.2 Power Station 209.5MW P-4 Pantay Power Station 22.6MW (in case of W-1)
<b>Projects for Mitigation of Socio-Environmental Issues:</b> E-1 Monitoring of Morphological Change of Alluvial Plain and Coastal Line E-2 Resettlement Schemes E-3 Watershed Management in Kaliwa River Basin E-4 Monitoring of Ecosystem in Kanan-Agos Watershed	<b>Optional Projects for Mitigation of Socio-Environmental Issues:</b> E-2 Resettlement Schemes
<b>Projects for Regional Development:</b> R-1 Bank Erosion Protection Work in Infanta-General Nakar Alluvial Plain R-2 Provision of River Facilities for Facilitating the Use of River (in the river reach downstream from Agos Dam) R-3 Construction of Access Roads/Footpaths for Enhancement of Regional Economic Activities R-4 Establishment of a Vocational Training Center at Barangay Daraitan R-5 Establishment of a Medical Clinic at Barangay Daraitan R-6 Power Supply to Infanta-General Nakar Area	<b>Optional Projects for Regional Development:</b> R-3 Construction of Access Roads/Footpaths for Enhancement of Regional Economic Activities

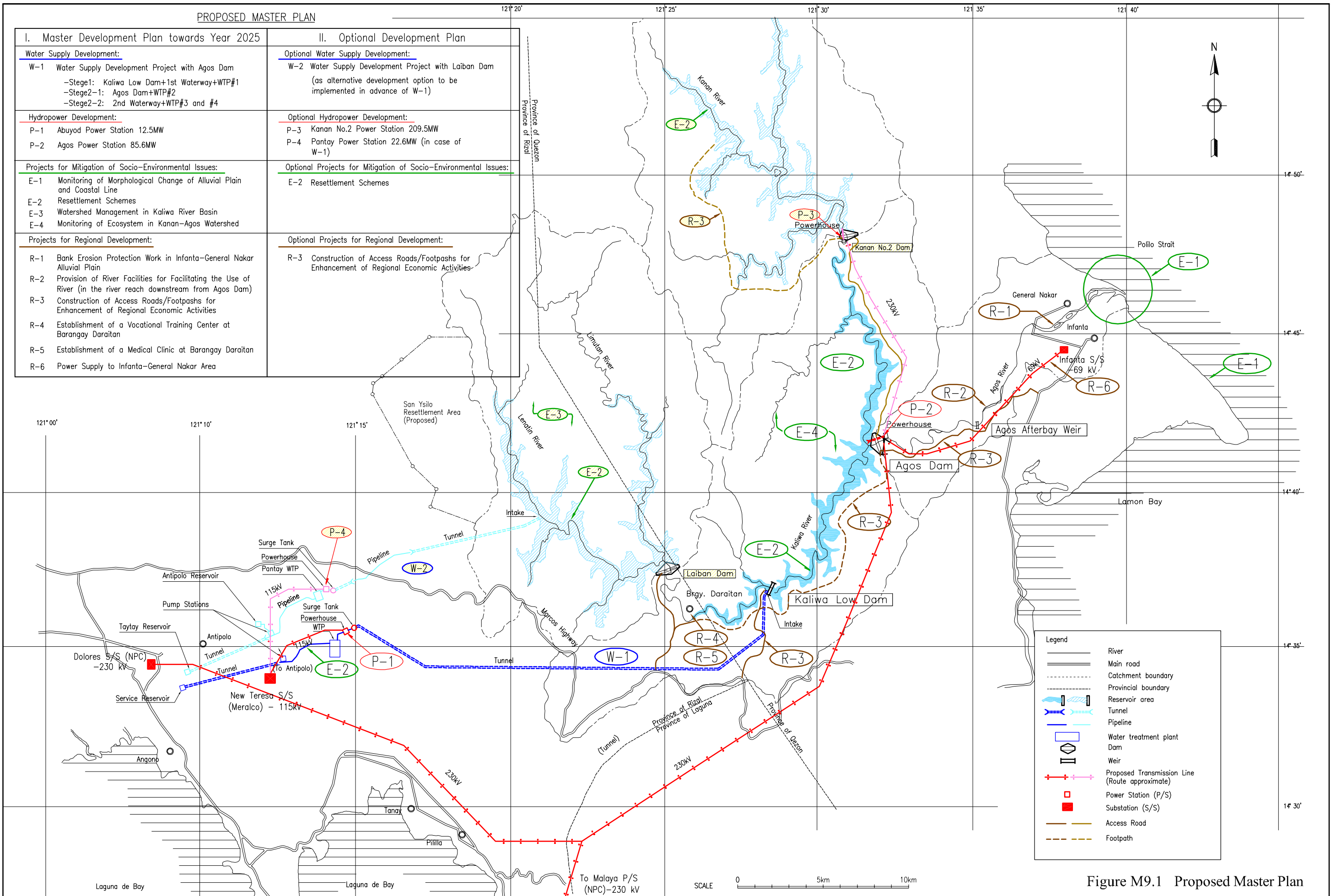
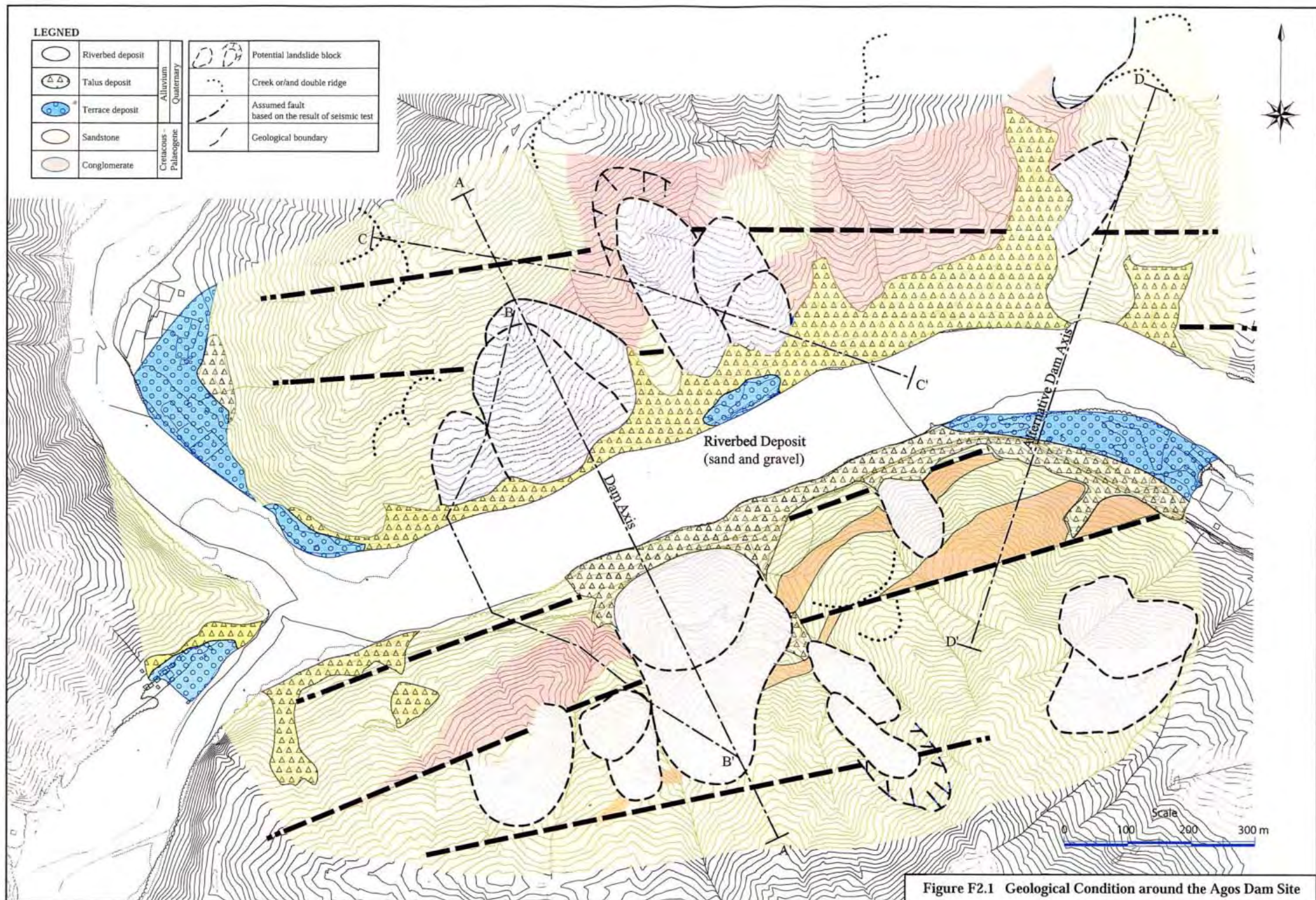
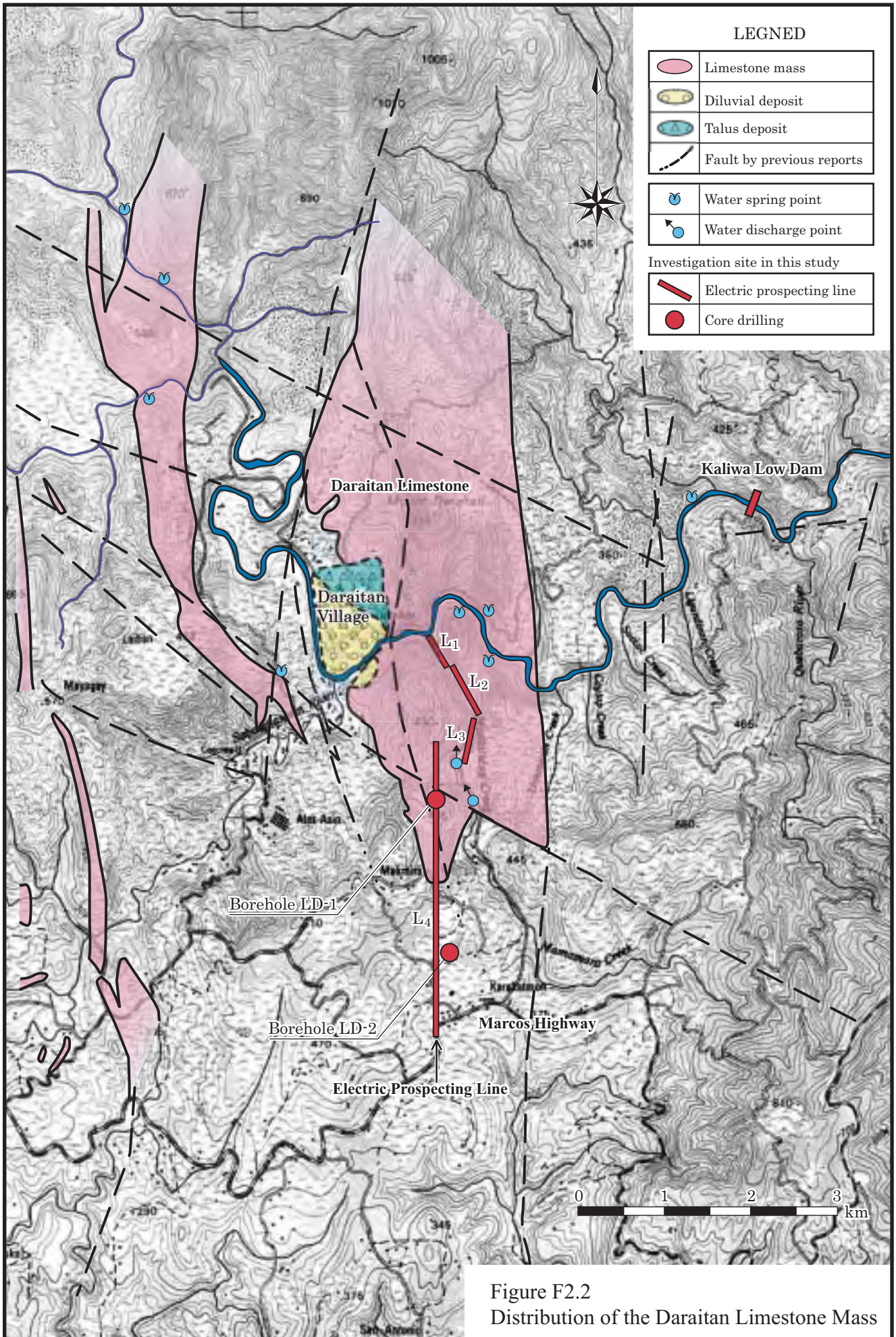


Figure M9.1 Proposed Master Plan





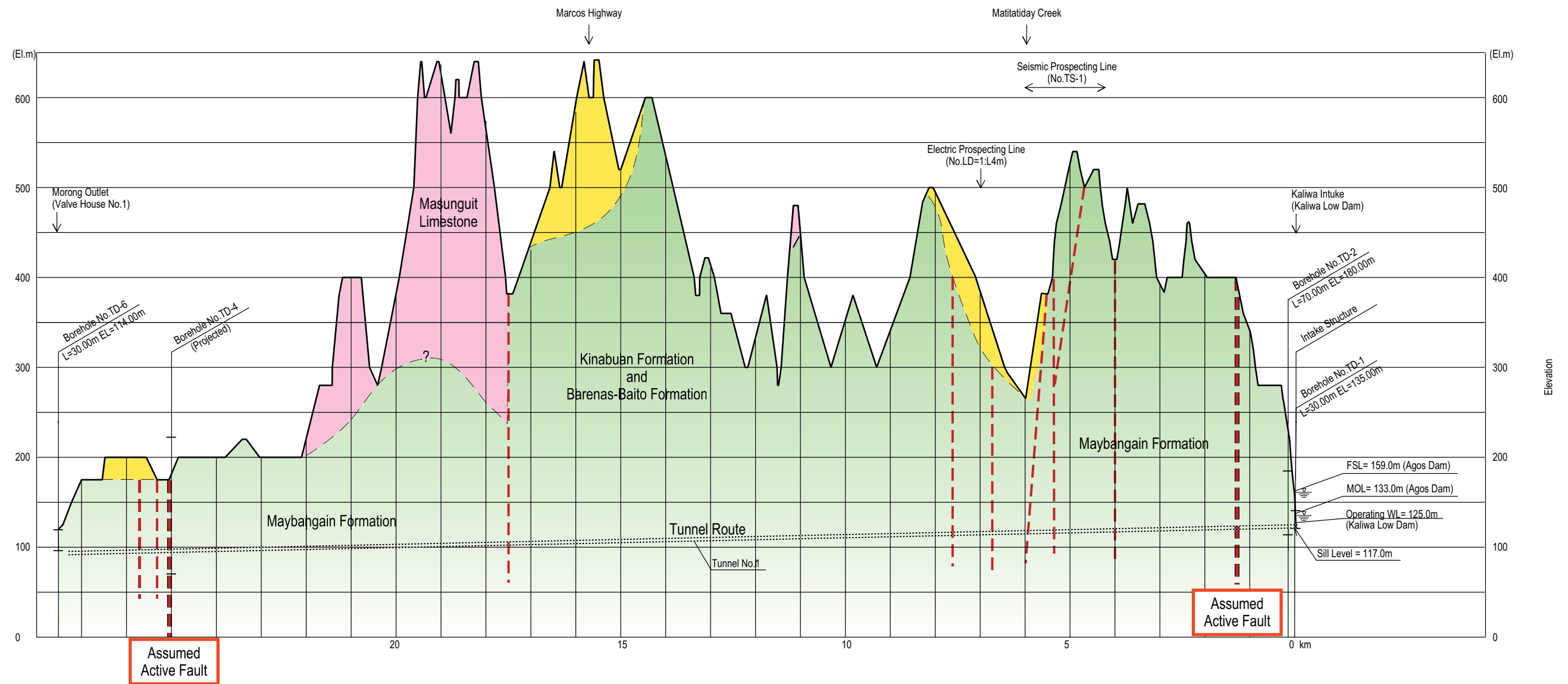
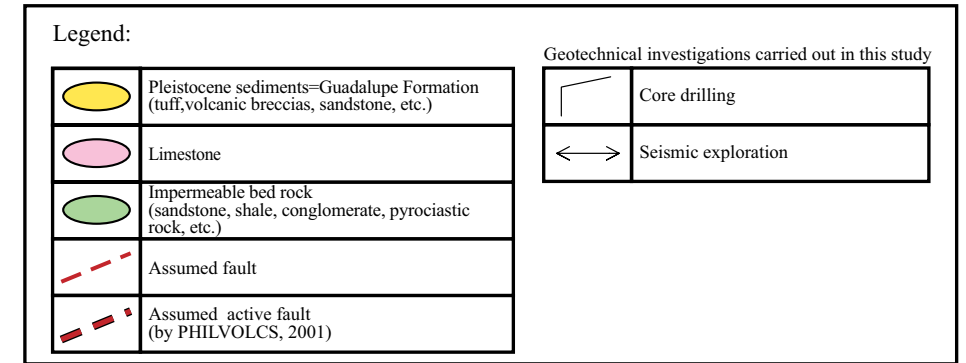
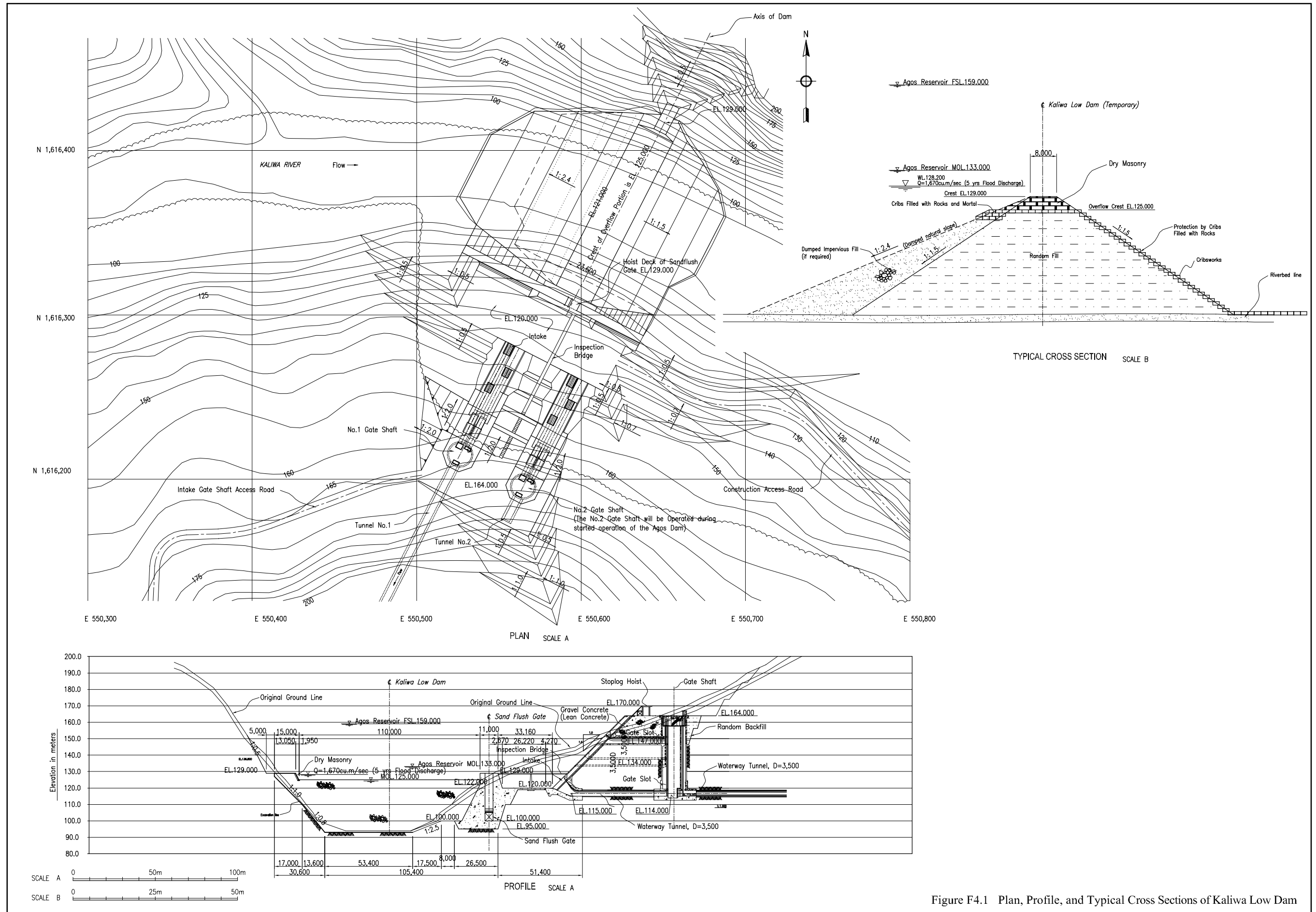


Figure F2.3 Profile of the Tunnel No.1





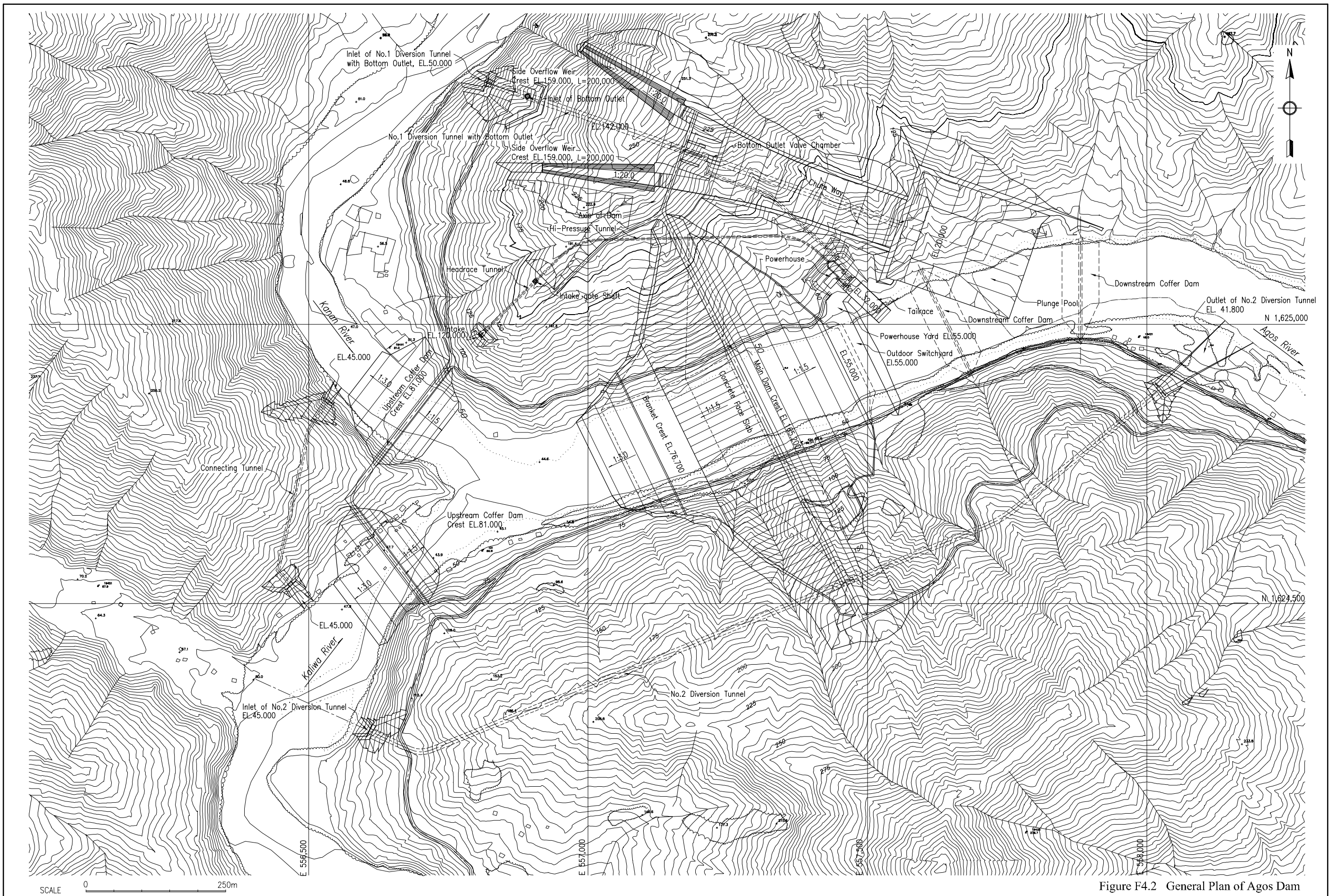
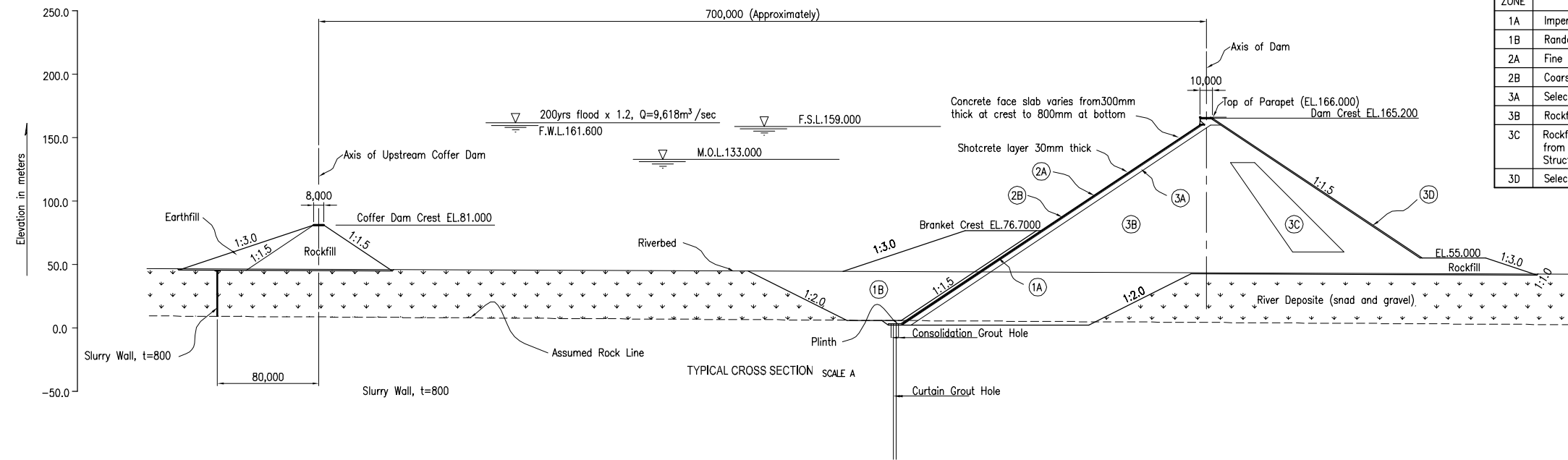


Figure F4.2 General Plan of Agos Dam



ZONE	CLASSIFICATION
1A	Impervious Earthfill on Plinth
1B	Random Fill on Plinth
2A	Fine Filter
2B	Coarse Filter
3A	Selected Small Rock
3B	Rockfill, Quarried Rock
3C	Rockfill, Random Rock and Gravel to be Obtained from Excavation of dam, Spillway and Other Structures
3D	Selected Large Rock for Riprap

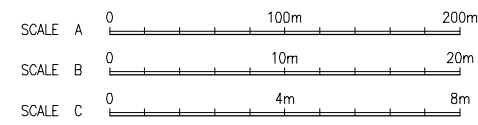
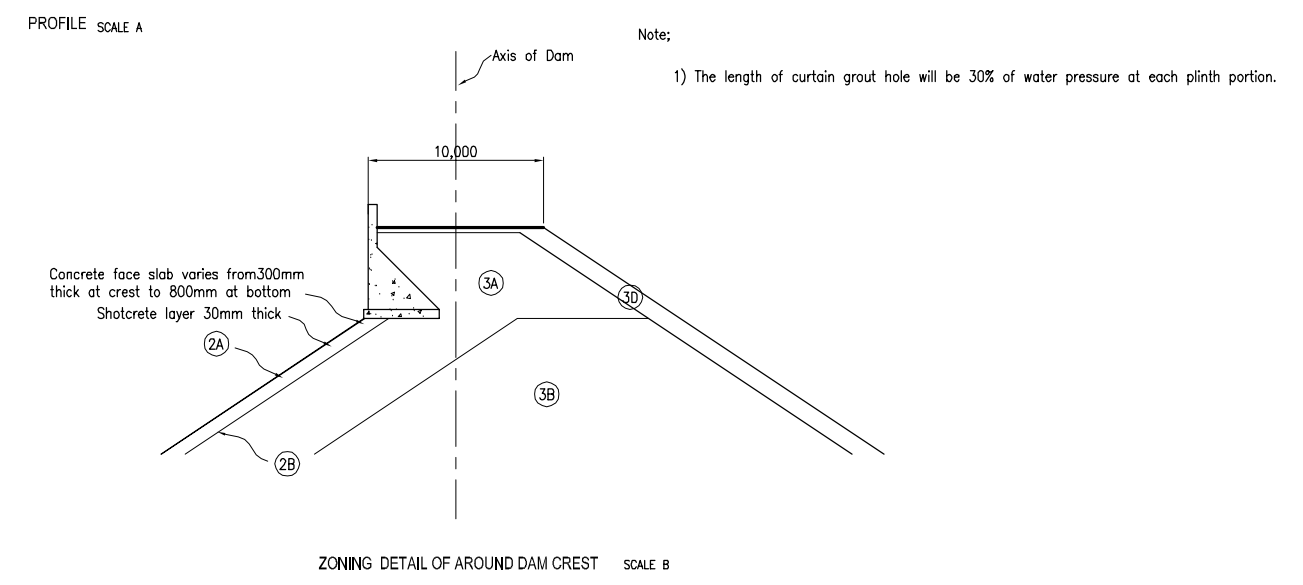
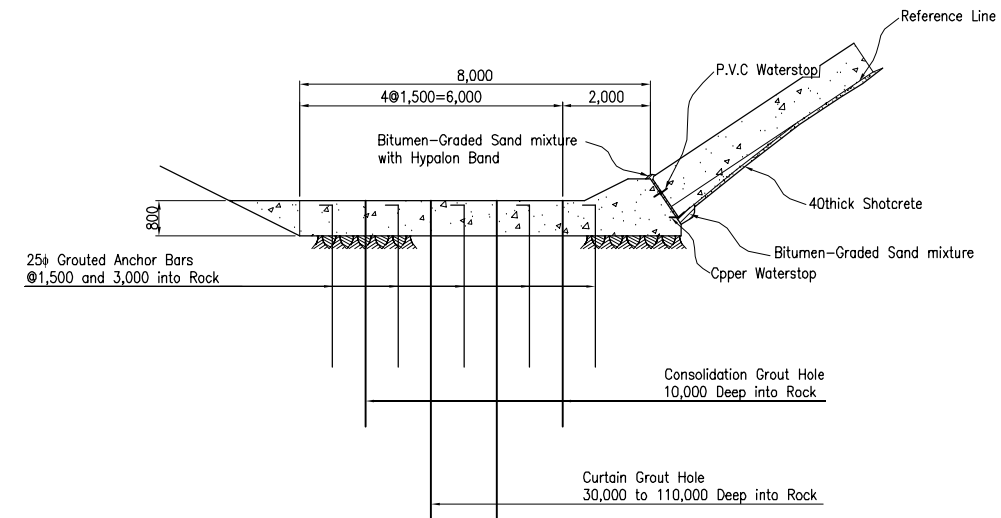
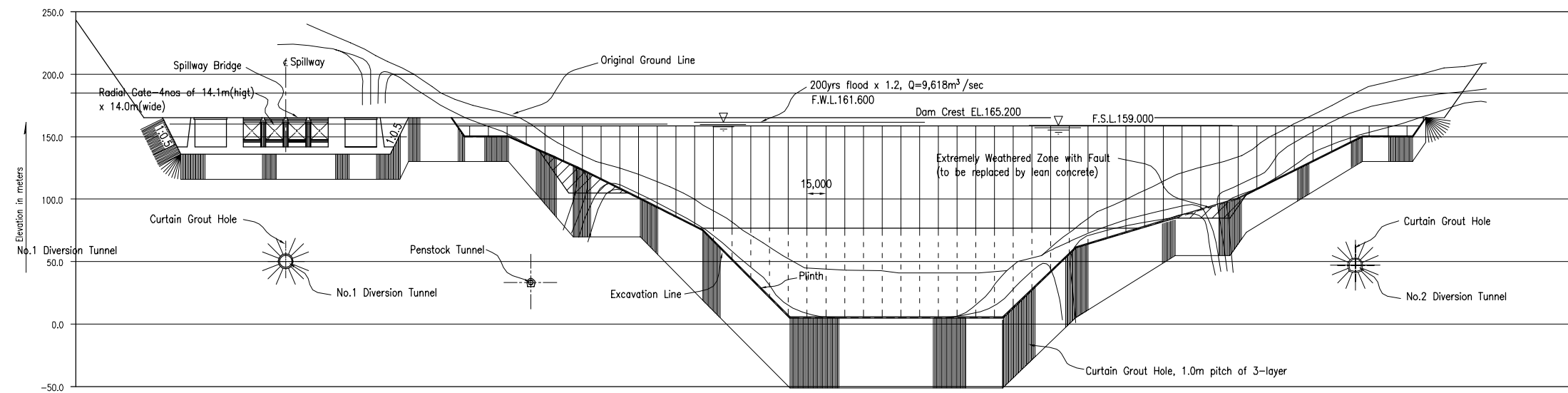


Figure F4.3 Typical Cross Section and Profile of Agos Dam

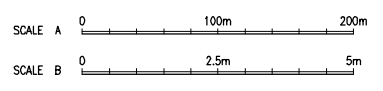
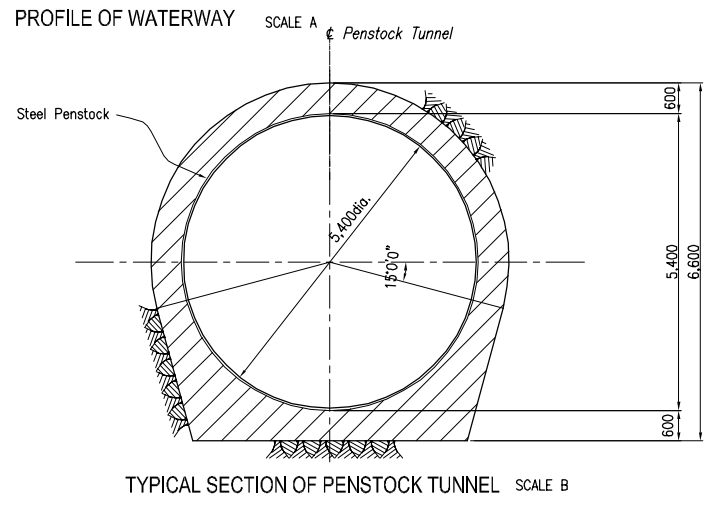
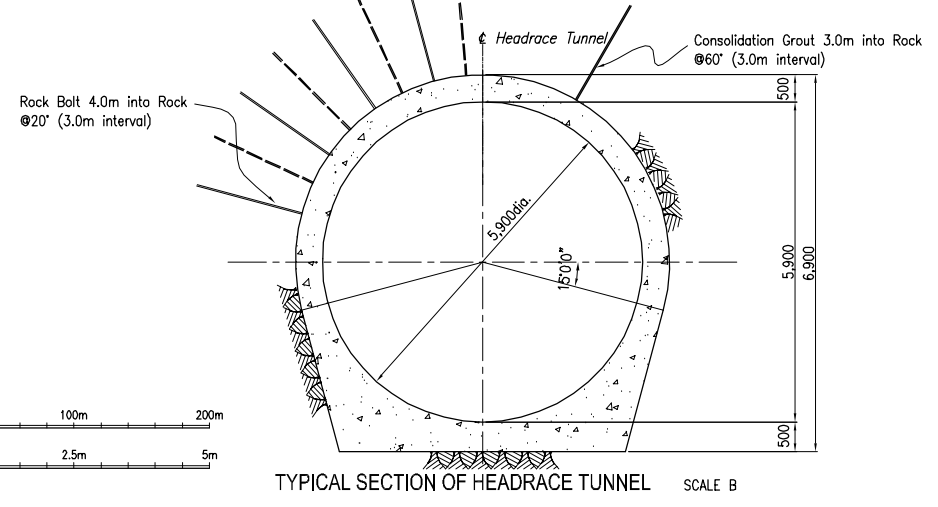
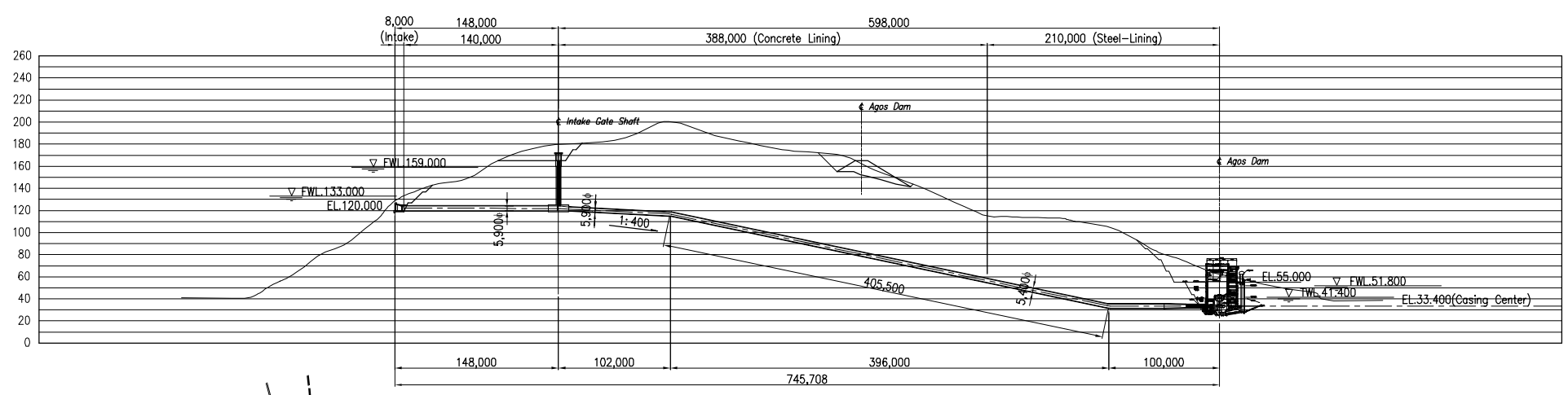
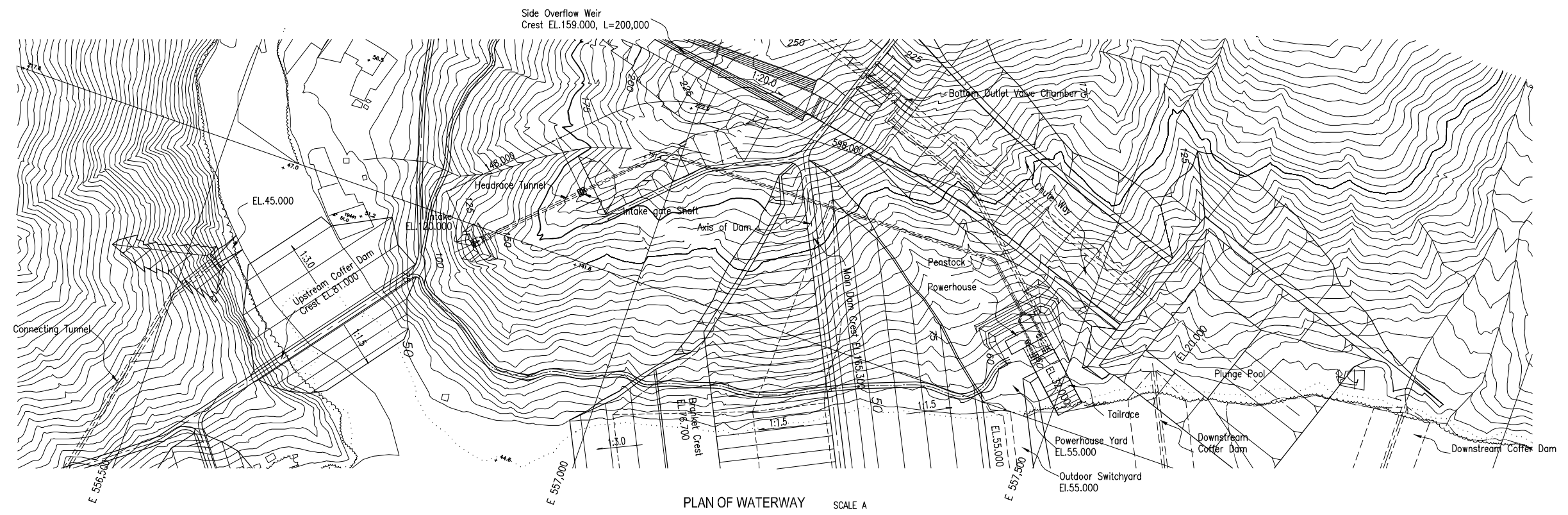


Figure F4.4 Plan, Profile and Section of Agos Power Waterway