

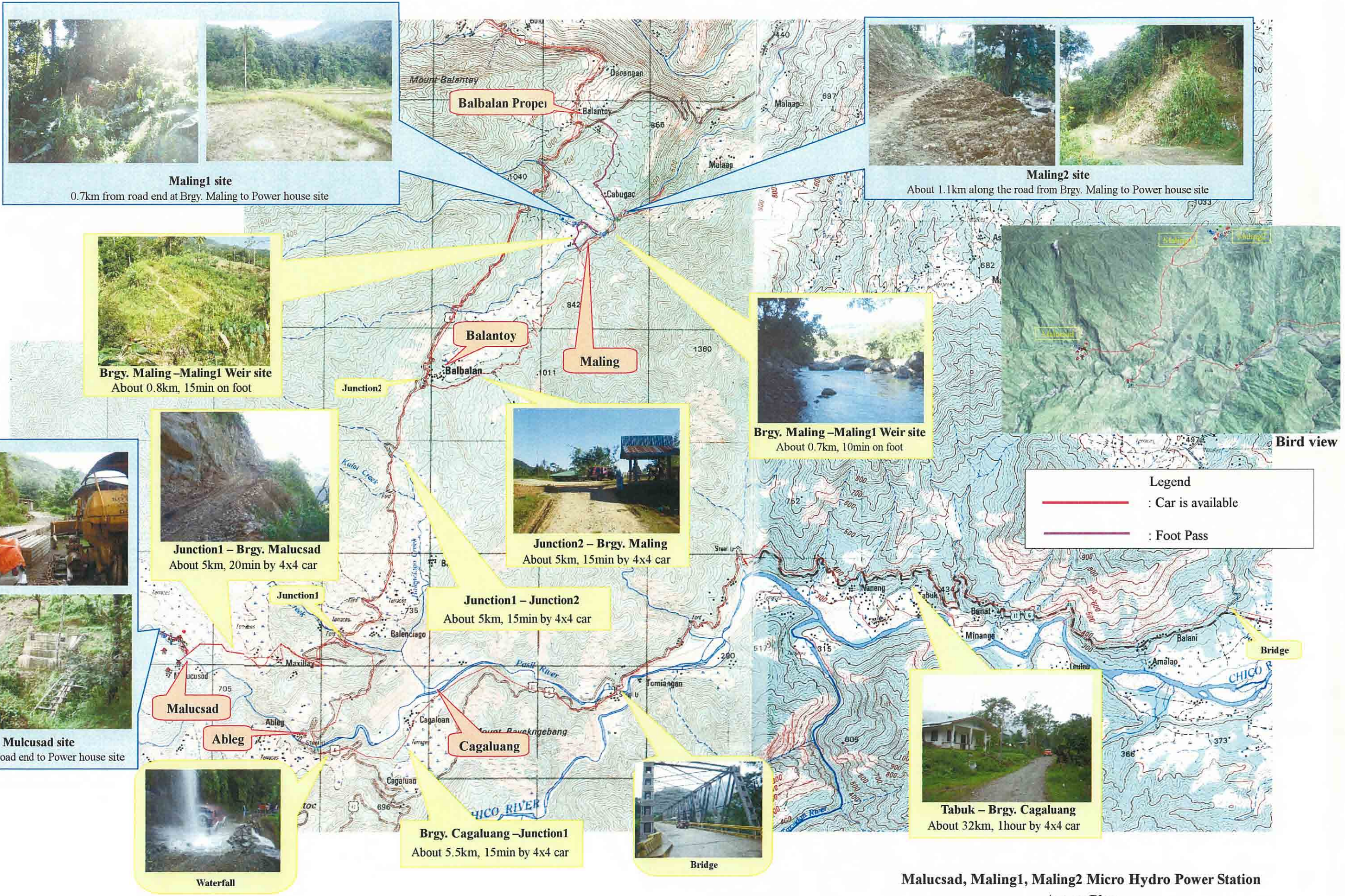
Drawings

Drawing List

Draw. No.	Title
	(Maling-1)
MMS-001	Maling-1, Malign-2, Malkusad Micro Hydro Power Station Access Plan
M1-C-001	Maling-1 Micro Hydro Power Station General Plan
M1-C-002	Maling-1 Micro Hydro Power Station Waterway Profile and Sections
M1-C-003	Maling-1 Micro Hydro Power Station Intake Weir (Plan & Sections)
M1-C-004	Maling-1 Micro Hydro Power Station Head Tank (Plan & Sections)
M1-C-005	Maling-1 Micro Hydro Power Station Power House (Plan & Sections)
M1-E-001	Maling-1 Micro Hydro Power Station Plan
M1-E-002	Maling-1 Transmission Line Plan
M1-E-003	Maling-1 Transmission Single Line Diagram
	(Maling-2)
M2-C-001	Maling-2 Micro Hydro Power Station General Plan
M2-C-002	Maling-2 Micro Hydro Power Station Waterway Profile and Sections
M2-C-003	Maling-1 Micro Hydro Power Station Intake Weir (Plan & Sections)
M2-C-004	Maling-1 Micro Hydro Power Station Head Tank (Plan & Sections)
M2-C-005	Maling-1 Micro Hydro Power Station Power House (Plan & Sections)
M2-E-001	Maling-2 Micro Hydro Power Station Plan
M2-E-002	Maling-2 Transmission Line Plan
M2-E-003	Maling-2 Transmission Single Line Diagram
	(Maluksad)
MS-C-001	Maluksad Micro Hydro Power Station General Plan
MS-C-002	Maluksad Micro Hydro Power Station Waterway Profile and Sections (1/2)
MS-C-003	Maluksad Micro Hydro Power Station Waterway Profile and Sections (2/2)
MS-C-004	Maluksad Micro Hydro Power Station Intake Weir (Plan & Sections)
MS-C-005	Maluksad Micro Hydro Power Station Head Tank (Plan & Sections)
MS-C-006	Maluksad Micro Hydro Power Station Penstock & Powerhouse (Plan & Sections)
MS-E-001	Maluksad Micro Hydro Power Station Plan
MS-E-002	Maluksad Transmission Line Plan
MS-E-003	Maluksad Transmission Single Line Diagram
	(Cambulo)
CB-G-001	Cambulo Micro Hydro Power Station Access Plan
CB-C-001	Cambulo Micro Hydro Power Station General Plan(1/2)
CB-C-002	Cambulo Micro Hydro Power Station General Plan(2/2)
CB-C-003	Cambulo Micro Hydro Power Station Waterway and Headrace Sections (1/2)
CB-C-004	Cambulo Micro Hydro Power Station Waterway and Headrace Sections (2/2)
CB-C-005	Cambulo Micro Hydro Power Station Intake Weir (Plan & Sections)
CB-C-006	Cambulo Micro Hydro Power Station Settling Basin (Plan & Sections)
CB-C-007	Cambulo Micro Hydro Power Station Head Tank (Plan & Sections)
CB-C-008	Cambulo Micro Hydro Power Station Penstock & Powerhouse (Plan & Sections)
CB-E-001	Cambulo Micro HYDRO Power Station Plan
CB-E-002	Cambulo Transmission Line Plan
CB-E-003	Cambulo Transmission Single Line Diagram

Draw. No.	Title
	(Liwo-2)
LW-G-001	Liwo-2 Micro Hydro Power Station Access Plan
LW-C-001	Liwo-2 Micro Hydro Power Station General Plan
LW-C-002	Liwo-2 Micro Hydro Power Station Waterway Profile and Headrace Sections (1/2)
LW-C-003	Liwo-2 Micro Hydro Power Station Waterway Profile and Headrace Sections (2/2)
LW-C-004	Liwo-2 Micro Hydro Power Station Intake Weir (Plan & Sections)
LW-C-005	Liwo-2 Micro Hydro Power Station Head Tank (Plan & Sections)
LW-C-006	Liwo-2 Micro Hydro Power Station Penstock & Powerhouse (Plan & Sections)
LW-E-001	Liwo-2 Micro Hydro Power Station Plan
LW-E-002	Liwo-2 Transmission Line Plan
LW-E-003	Liwo-2 Transmission Single Line Diagram
FP-E-001	Support Fitting Types for Single Phase
FP-E-002	Support Fitting Types for Two Phase
FP-E-003	Support Fitting Types for Three Phase

Maling-1



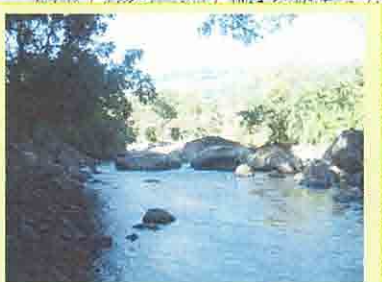
Maling1 site
0.7km from road end at Brgy. Maling to Power house site



Maling2 site
About 1.1km along the road from Brgy. Maling to Power house site



Brgy. Maling-Maling1 Weir site
About 0.8km, 15min on foot



Brgy. Maling-Maling1 Weir site
About 0.7km, 10min on foot



Bird view



Junction1 - Brgy. Malucsad
About 5km, 20min by 4x4 car



Junction2 - Brgy. Maling
About 5km, 15min by 4x4 car



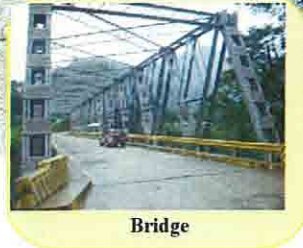
Malucsad site
80m from road end to Power house site



Waterfall

Junction1 - Junction2
About 5km, 15min by 4x4 car

Brgy. Cagaluang - Junction1
About 5.5km, 15min by 4x4 car

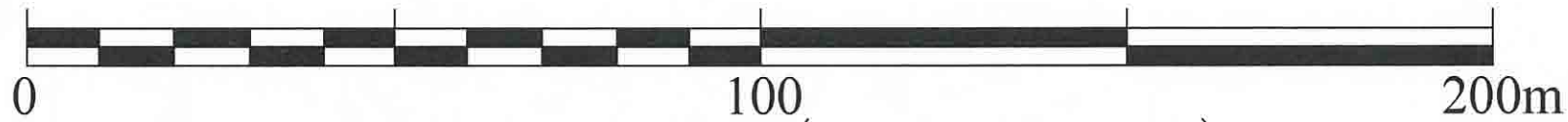
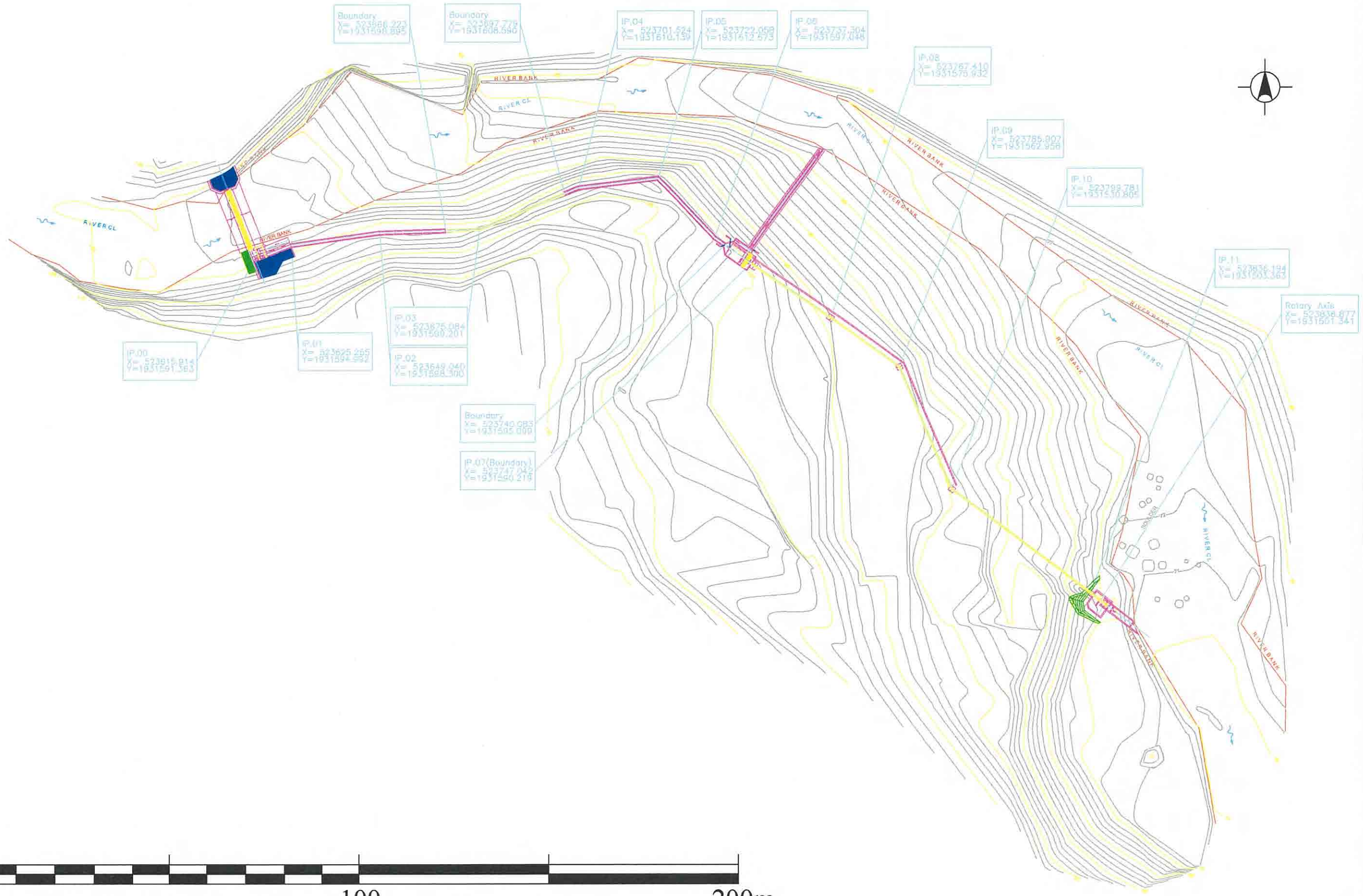


Bridge

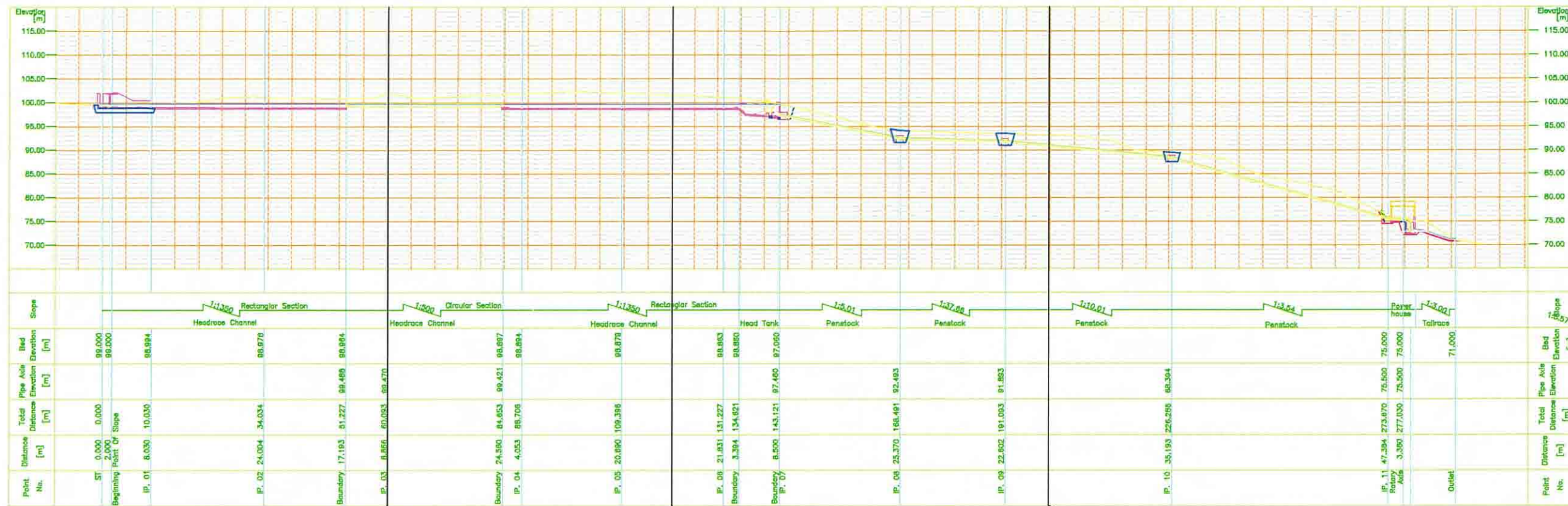


Tabuk - Brgy. Cagaluang
About 32km, 1 hour by 4x4 car

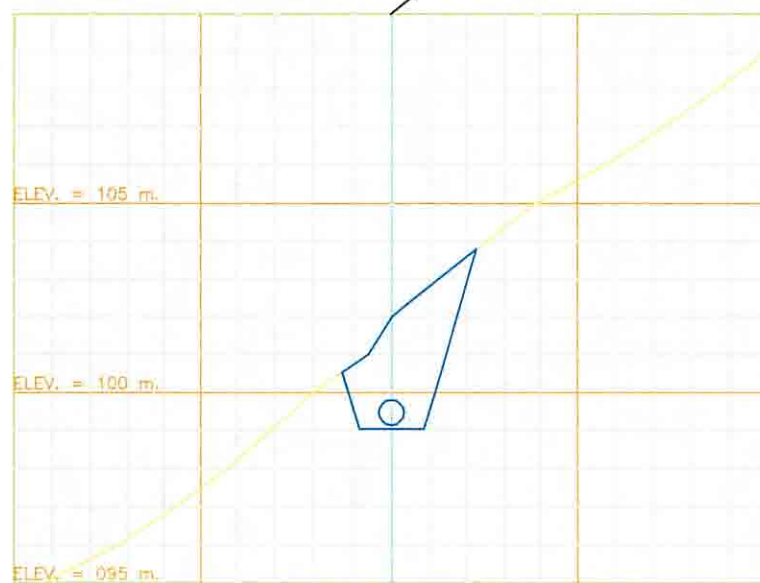
Legend	
	: Car is available
	: Foot Pass



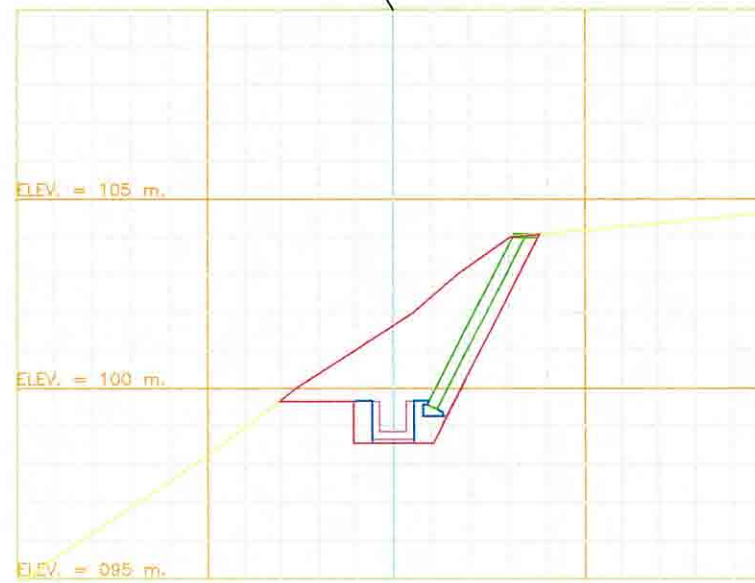
GENERAL PLAN (S = 1 : 500)



PROFILE
(S = 1 : 500)



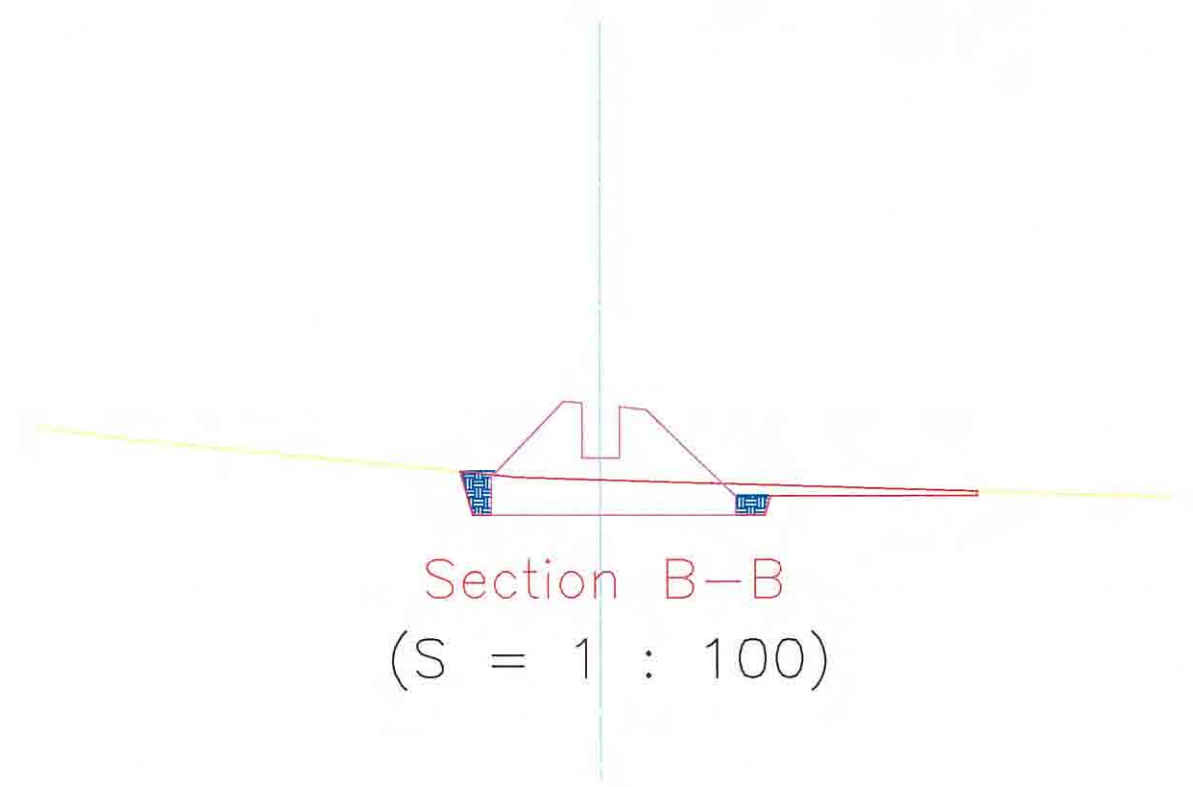
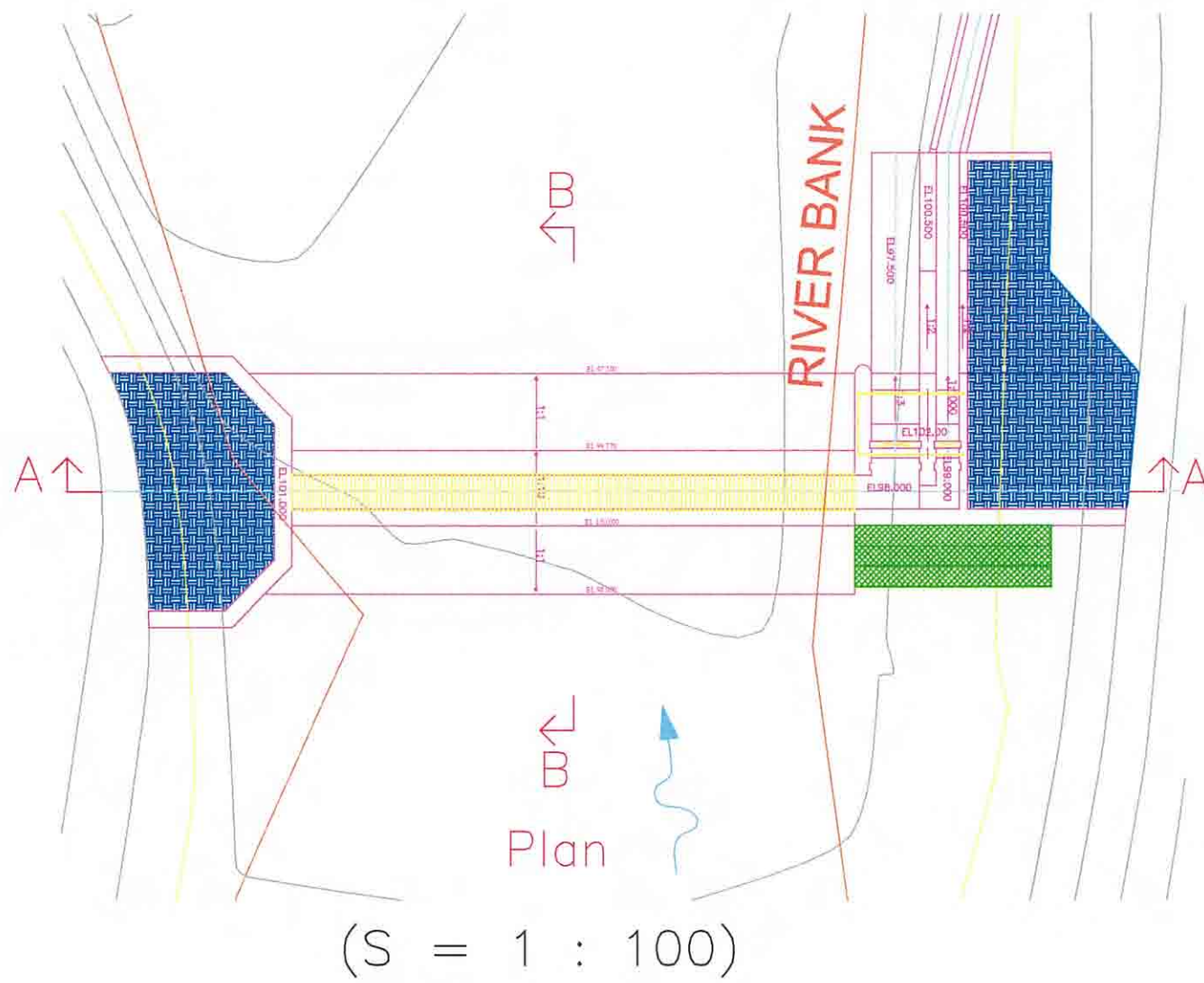
HEADRACE CHANNEL
TYPICAL SECTION 1
(S = 1 : 100)

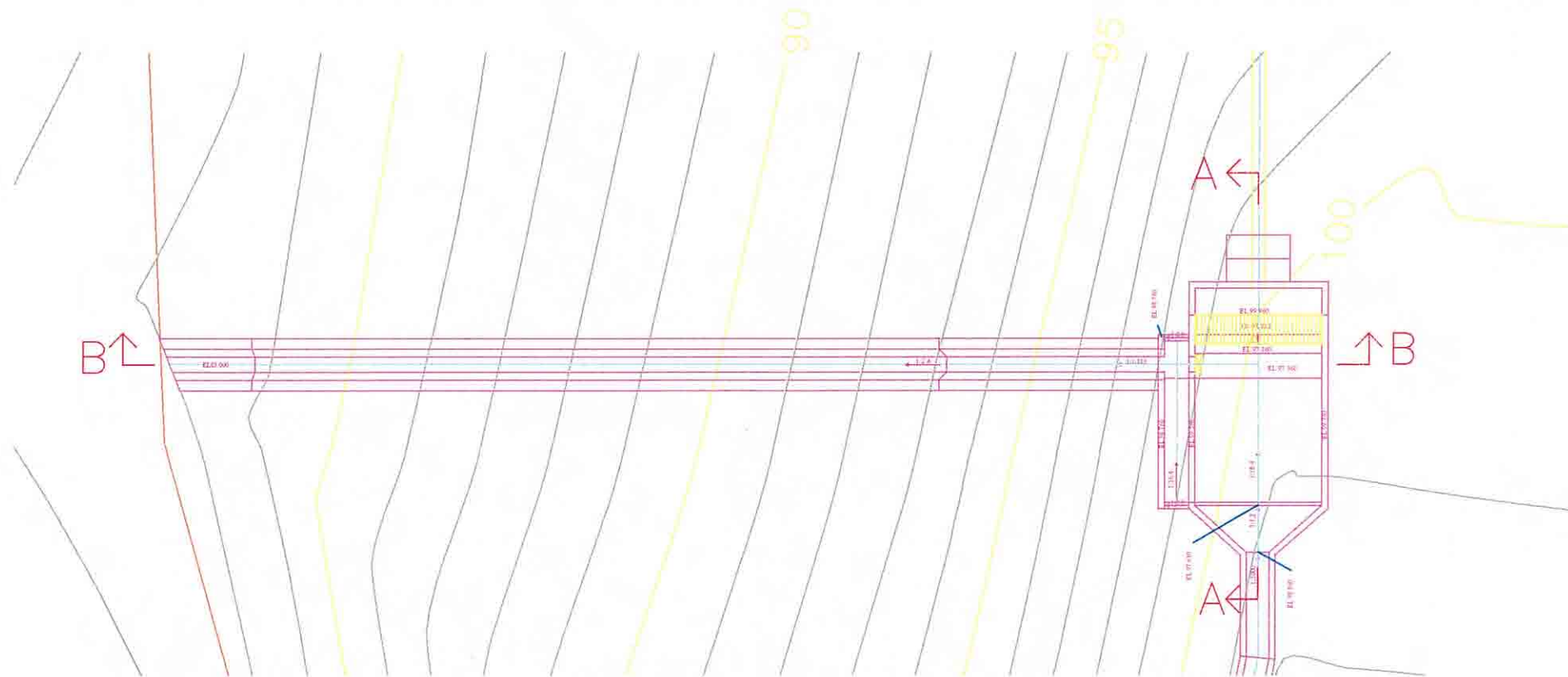


HEADRACE CHANNEL
TYPICAL SECTION 2
(S = 1 : 100)



HEADRACE CHANNEL
TYPICAL SECTION 3
(S = 1 : 100)

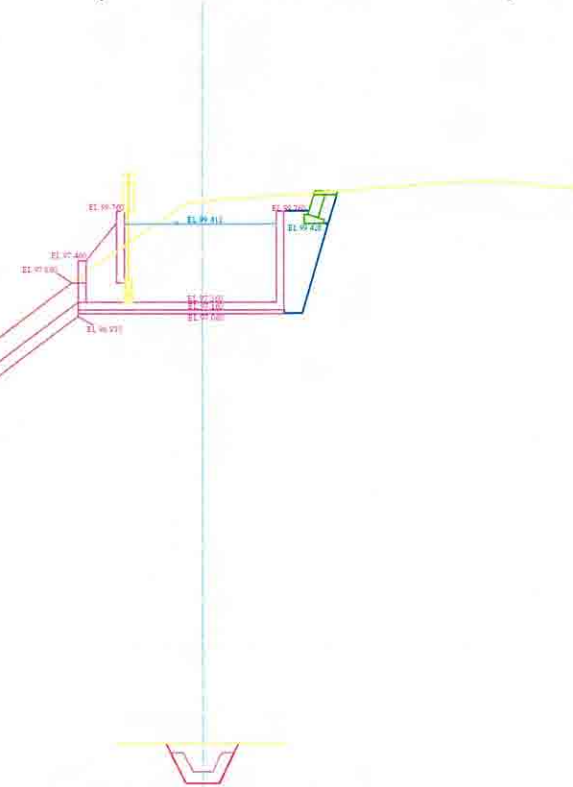




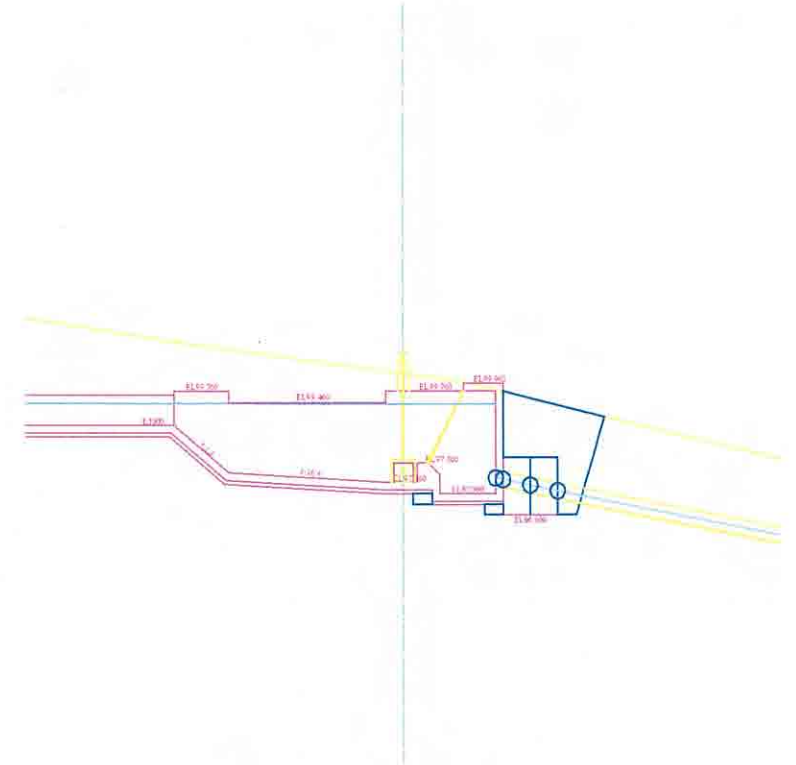
Plan
(S = 1 : 100)



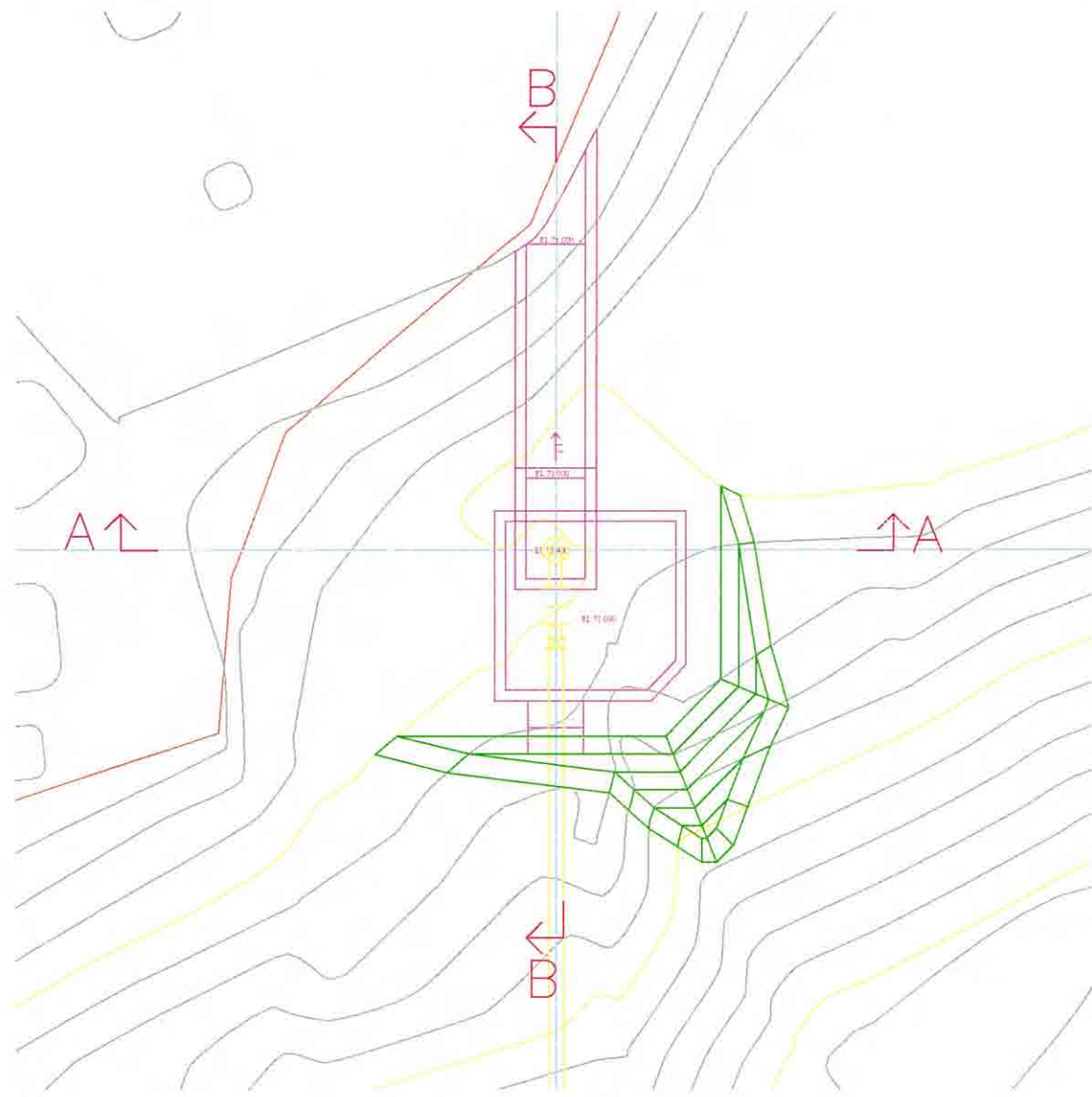
Section B-B
(S = 1 : 100)



Typical Section
Spillway Channel
(S = 1 : 100)

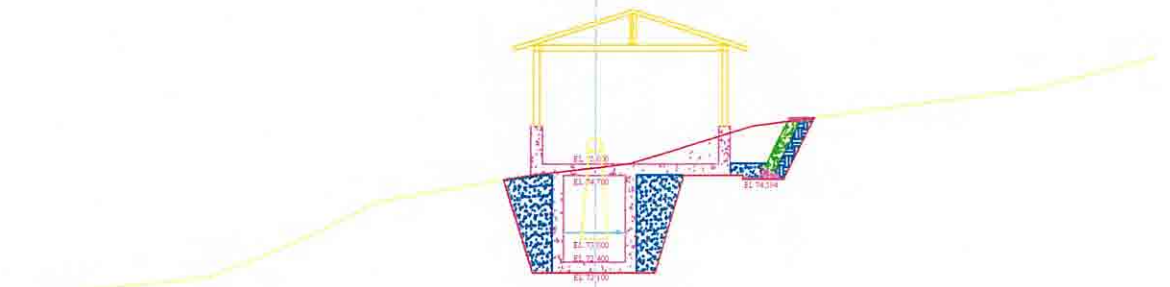


Section A-A
(S = 1 : 100)

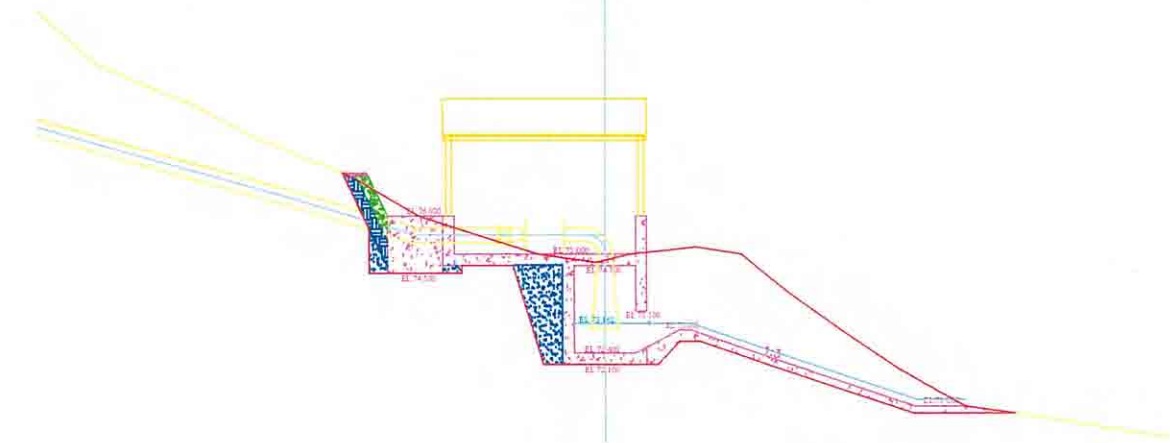


Plan

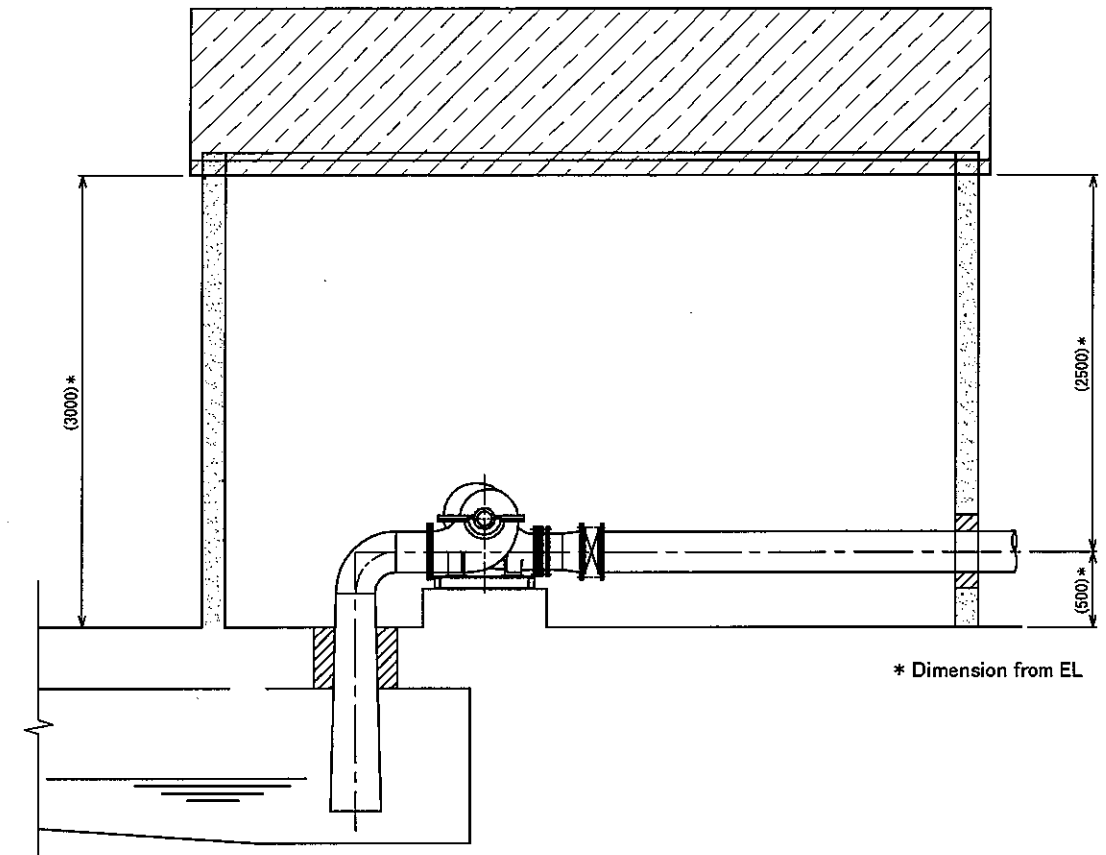
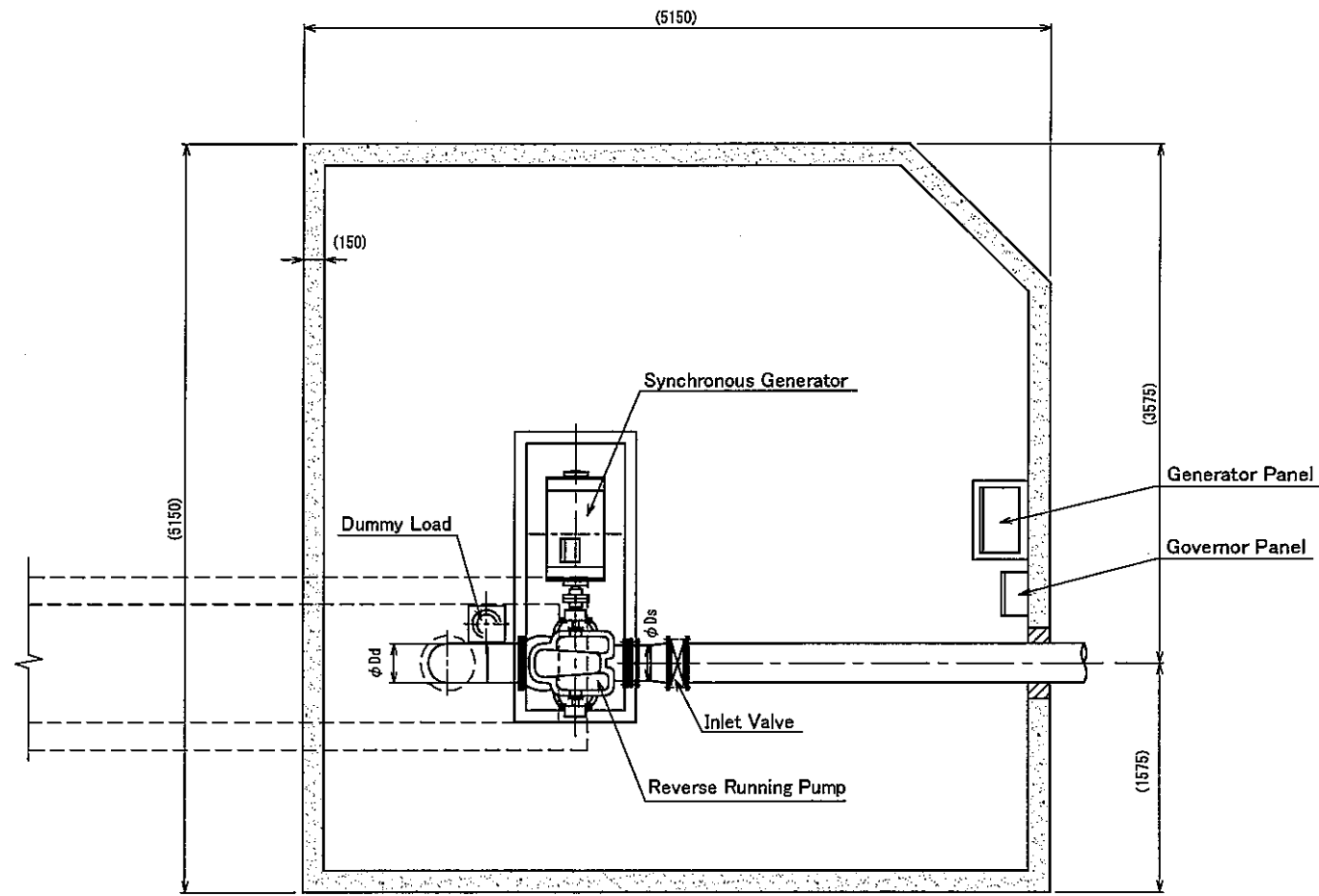
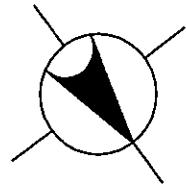
(S = 1 : 100)



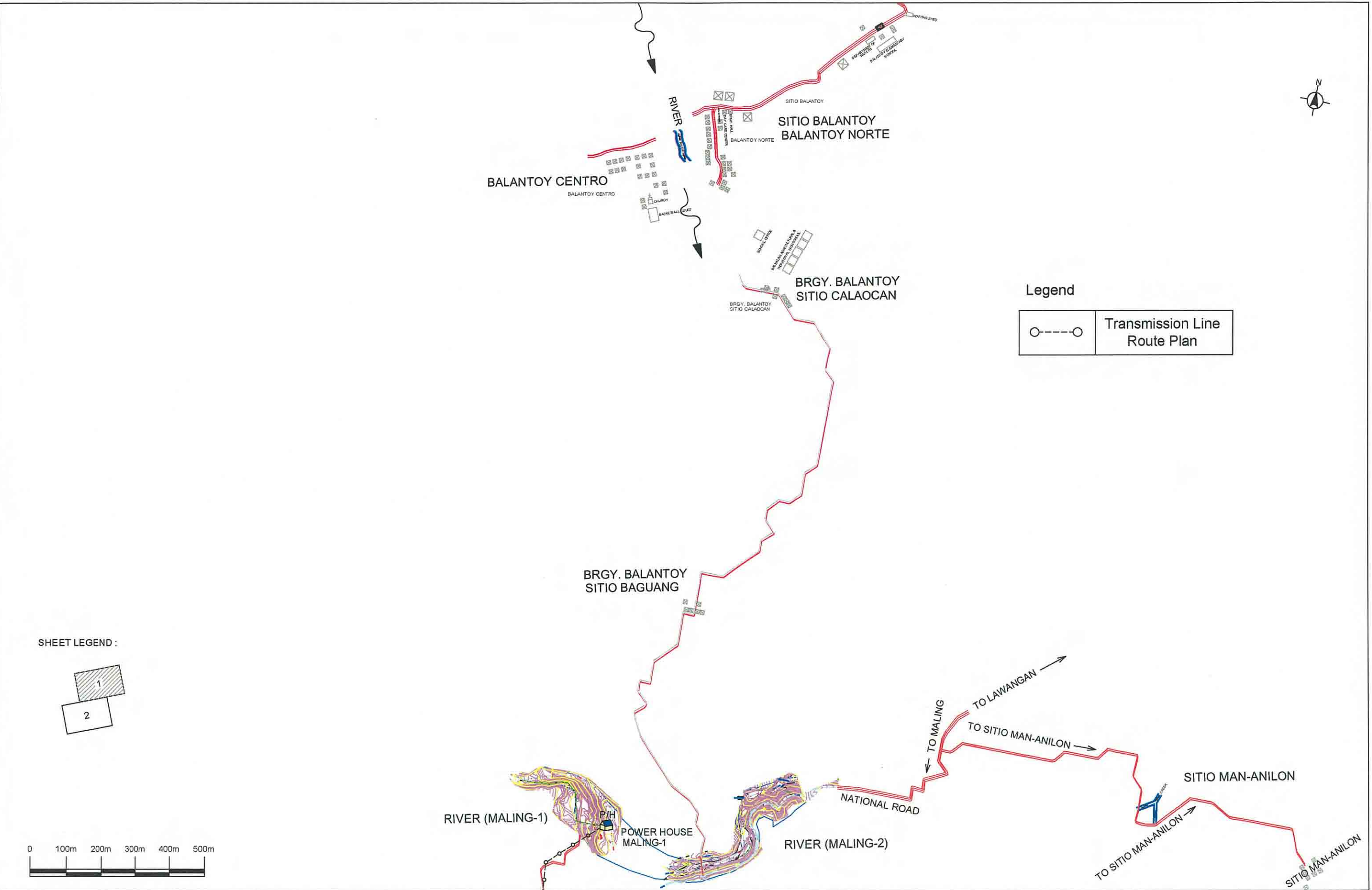
Section A-A
(S = 1 : 100)

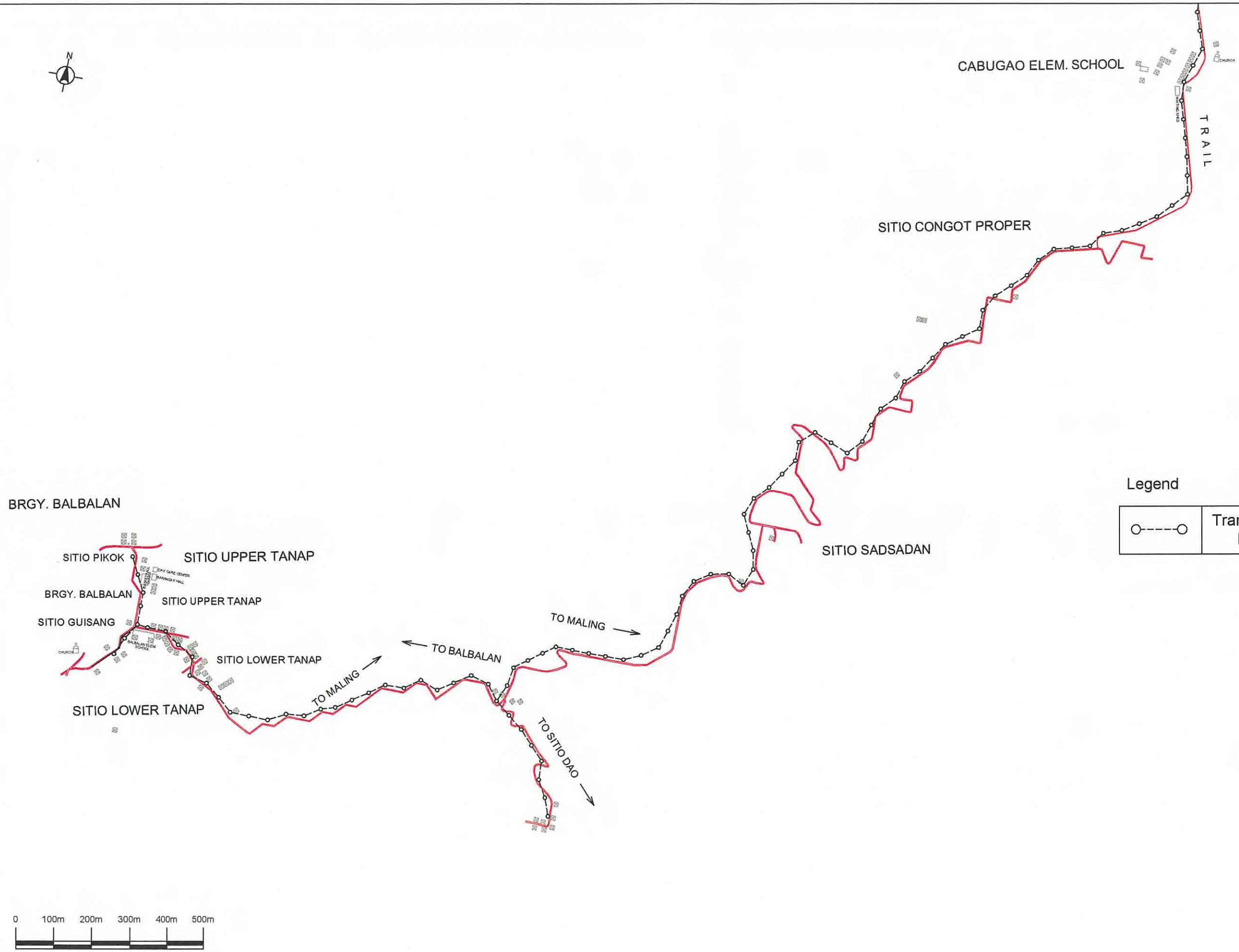


Section B-B
(S = 1 : 100)



	Turbine Discharge (m ³ /s)	Effective Head (m)	Speed (min ⁻¹)	Rated Capacity (kVA)	Speed Increase Gear	Dimension	
						Ds	Dd
Maling-1	0.31	22.93	1200	60	—	250	350

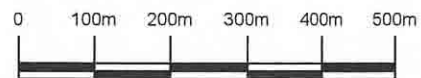
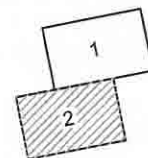


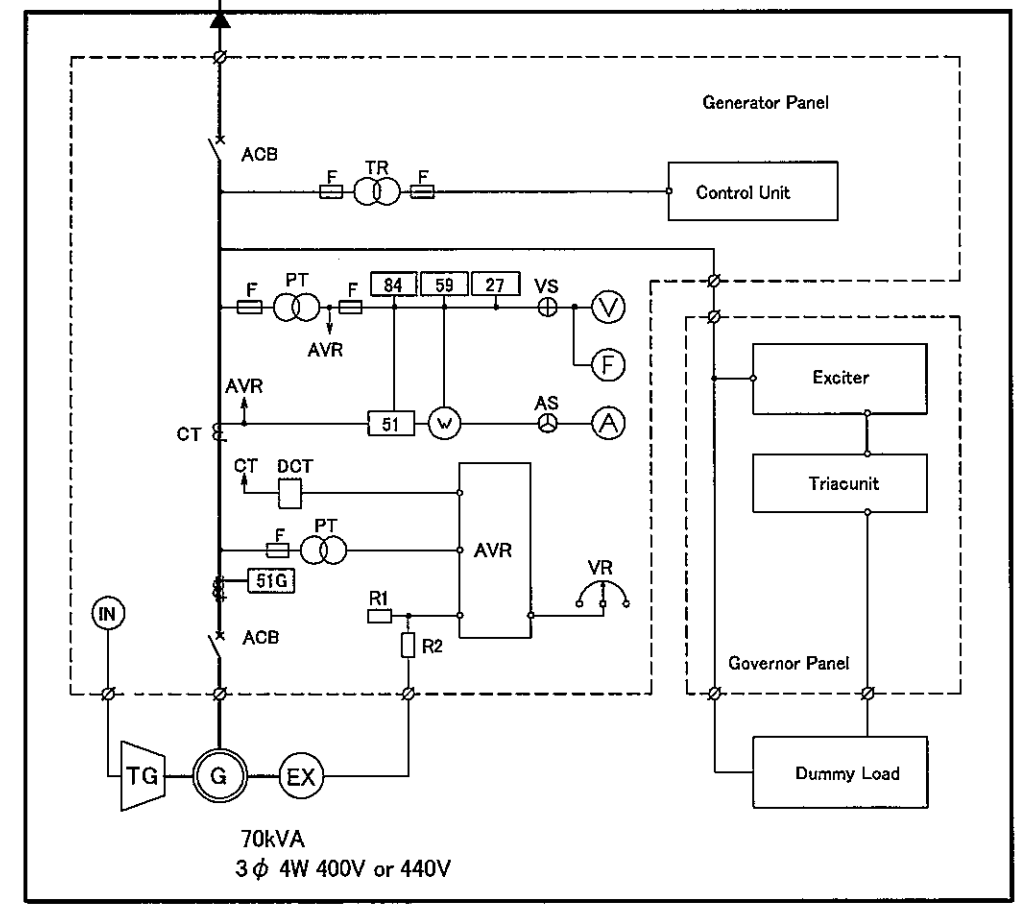
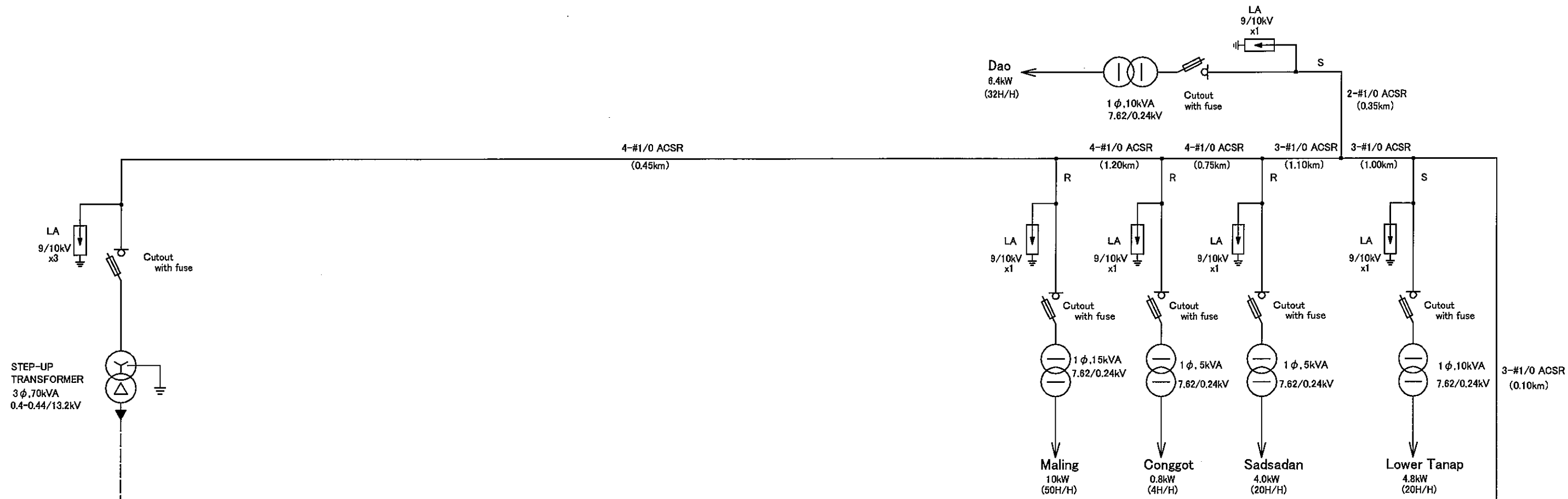


Legend

○- - -○	Transmission Line Route Plan
---------	------------------------------

SHEET LEGEND :





POWER HOUSE FOR MALING-1

MALING-1

Supply System	Conductor Length(km)	Conductor Total Length(km)
Three(3)Phase Four (4)Wire	2.40	9.60
Two(2)Phase Three (3)Wire	2.30	6.90
Single(1)Phase Two (2)Wire	0.65	1.30
Total	5.35	17.80

* Spare length of conductor such as sag is not included