

Cambulo



View Point - Pula

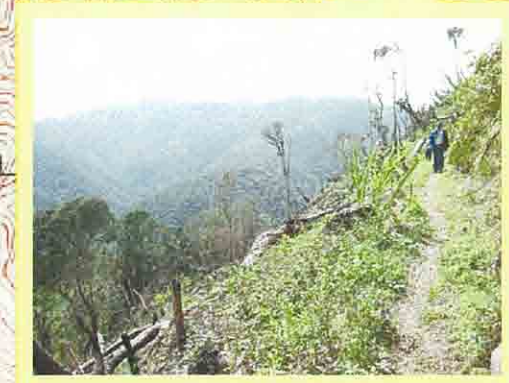


Pula - Cambulo

About 9km, about 2hours on foot



View Point



View Point - Pula

About 13km, About .5hours on foot

Cambulo

Cambulo - Batad

About 6.5km,
About 1.5hours on foot



Bird view



Road End Point - Cambulo

About 4km, about 1hour on foot

Road End Point

Batad



Kinakin - Road End Point

About 10km,
About 1 hour by special 4x4 car

Kinakin - Saddle

About 7km,
About 40min by car

Batad - Saddle

About 3.5km,
About 1hour on foot

Legend

- : Car is available
- : Foot pass

Banaue - View Point
About 12km, 30min by car

**Cambulo Micro Hydro Power Station
Access Plan
Draw. No. CB-G-001**

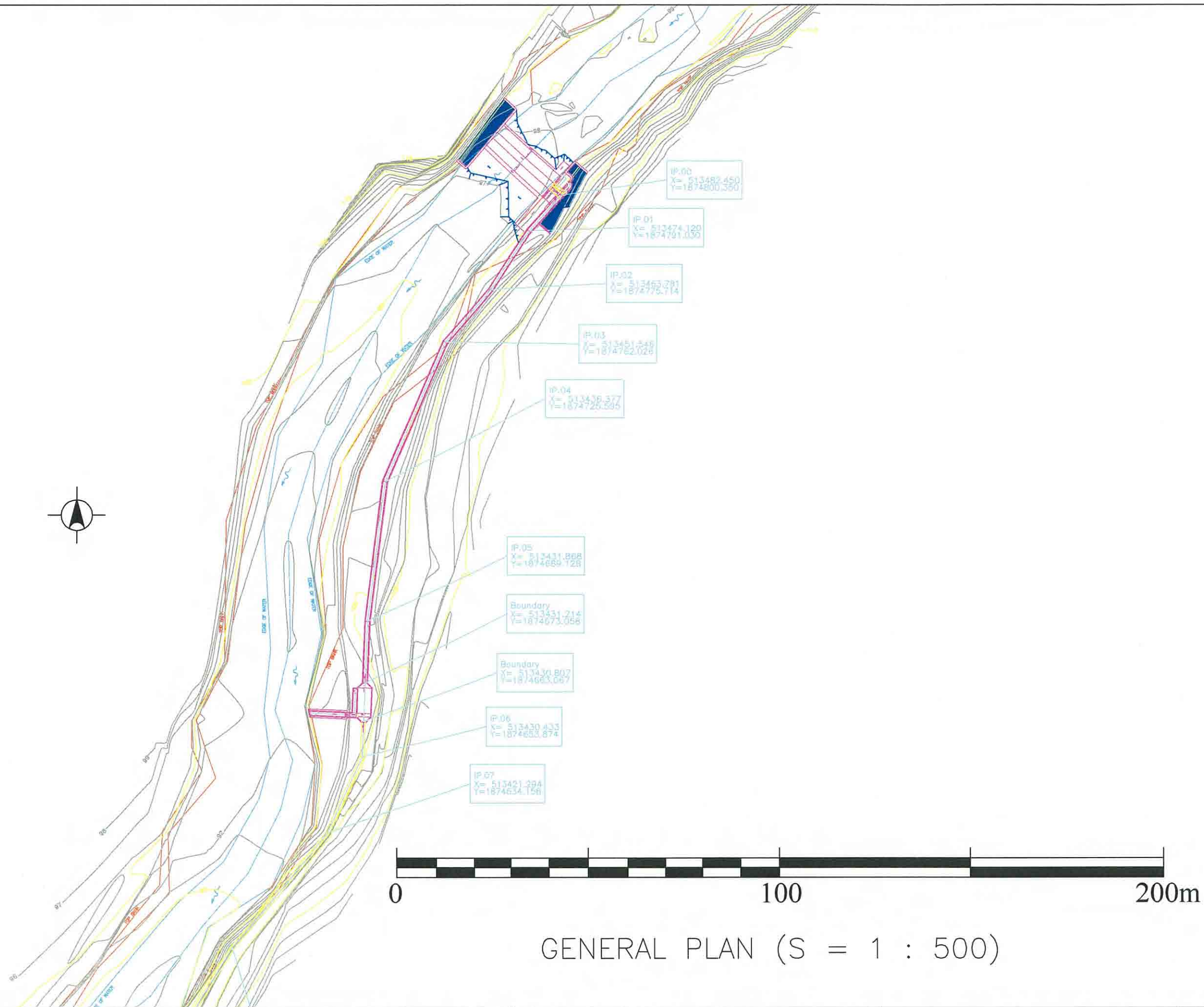
Banaue

Banaue - Kinakin


About 11km,
About 30min by car

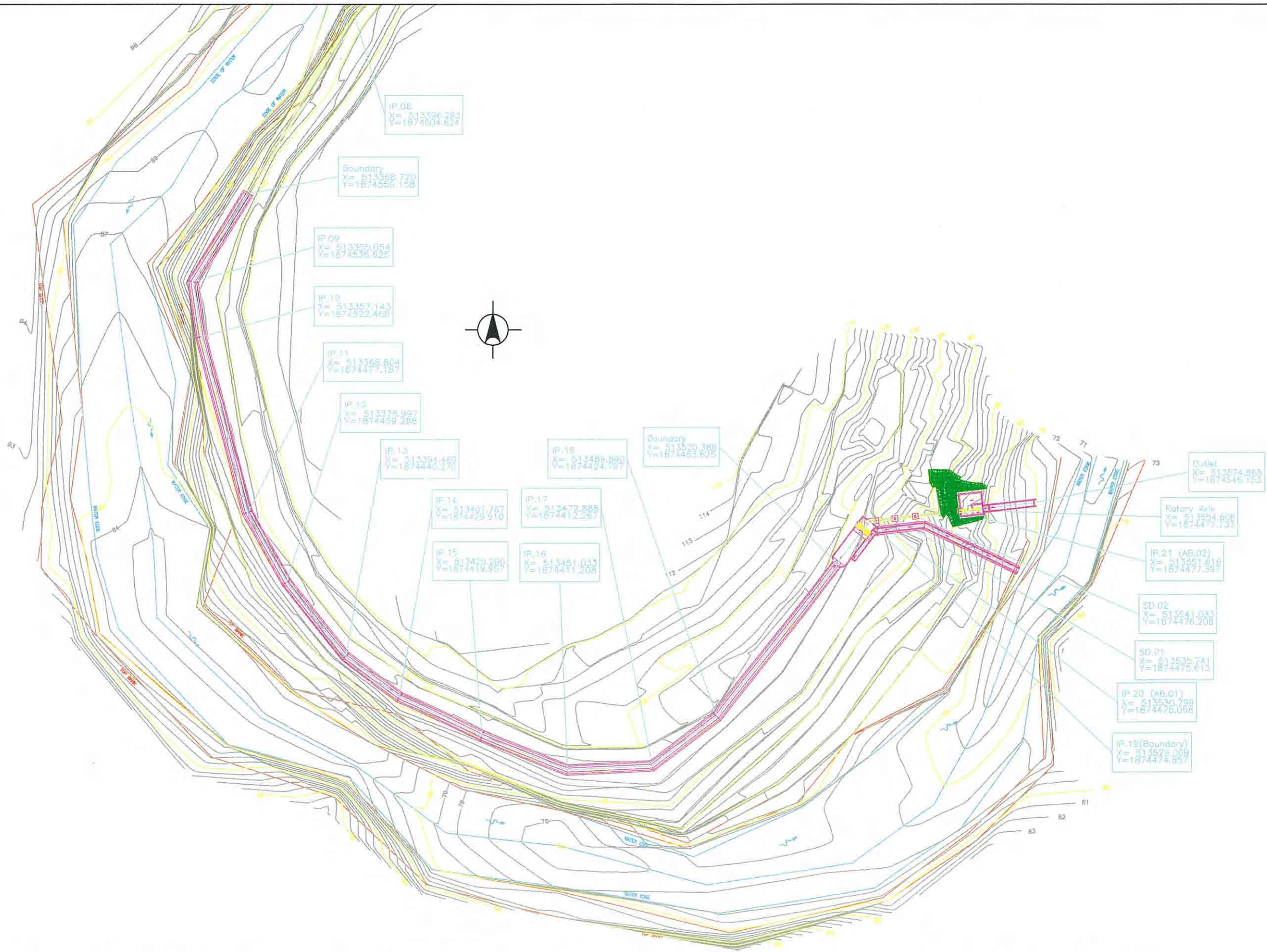
Kinakin

Saddle

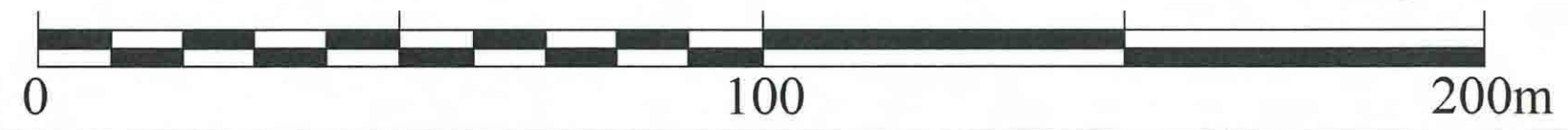



GENERAL PLAN (S = 1 : 500)

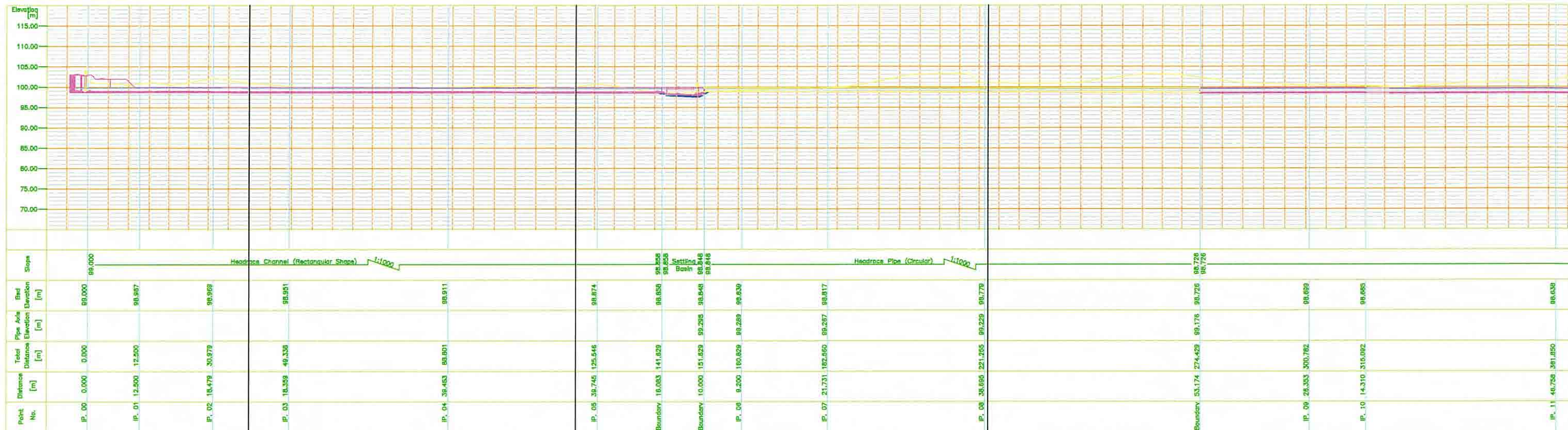
 JAPAN INTERNATIONAL COOPERATION AGENCY	PROJECT & LOCATION:	SHEET CONTENTS	Draw. No.
	THE BASIC DESIGN STUDY ON THE PROJECT FOR RURAL ELECTRIFICATION IN NORTHERN LUZON IN THE REPUBLIC OF THE PHILIPPINES	CAMBULO MICRO HYDRO POWER STATION GENERAL PLAN(1/2) (S = 1 : 500)	CB-C-001



GENERAL PLAN (S = 1 : 500)



 JAPAN INTERNATIONAL COOPERATION AGENCY	PROJECT & LOCATION:	SHEET CONTENTS	Draw. No.
	THE BASIC DESIGN STUDY ON THE PROJECT FOR RURAL ELECTRIFICATION IN NORTHERN LUZON IN THE REPUBLIC OF THE PHILIPPINES	CAMBULO MICRO HYDRO POWER STATION GENERAL PLAN(2/2) (S = 1 : 500)	CB-C-002



PROFILE
(S = 1 : 500)



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

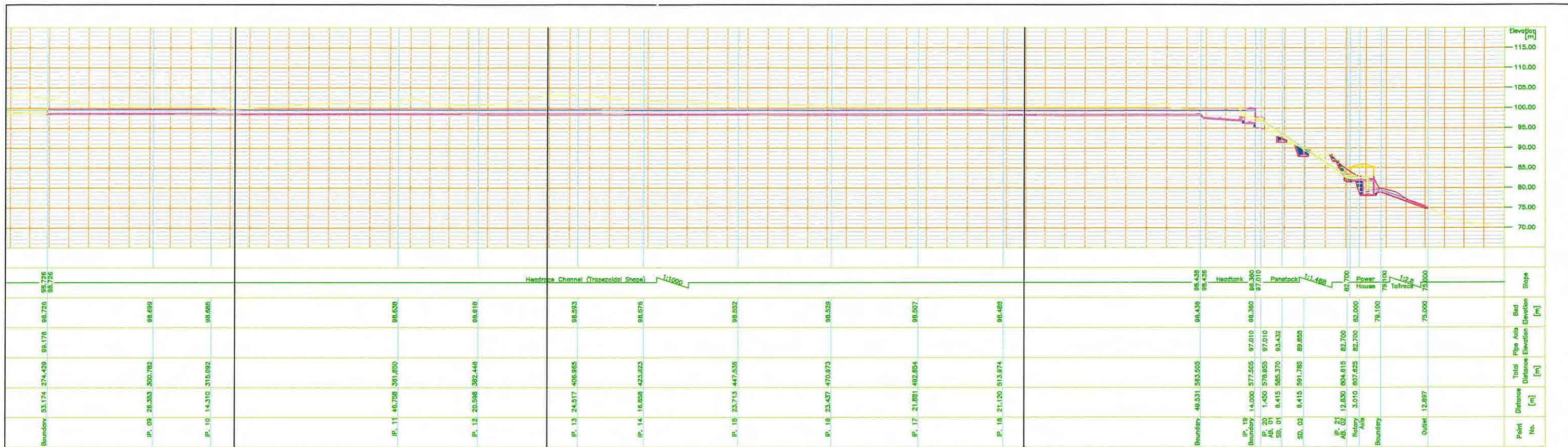


HEADRACE CHANNEL
TYPICAL SECTION 2
(S = 1 : 100)

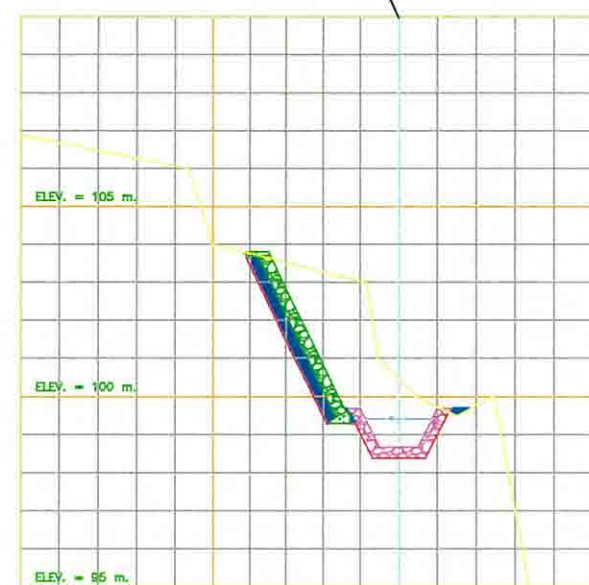


HEADRACE CHANNEL
TYPICAL SECTION 3
(S = 1 : 100)

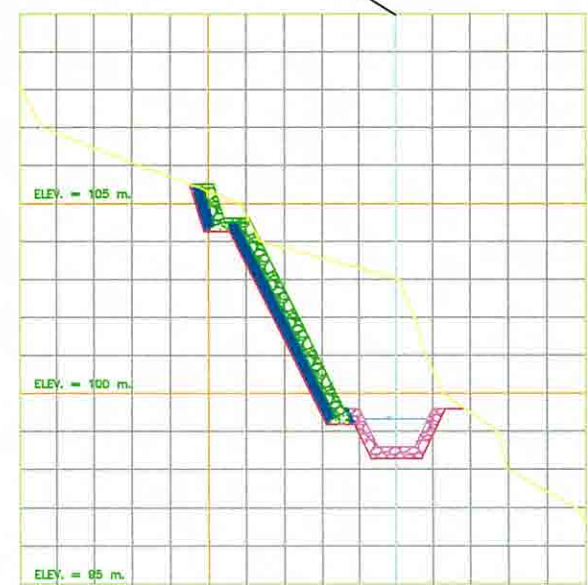




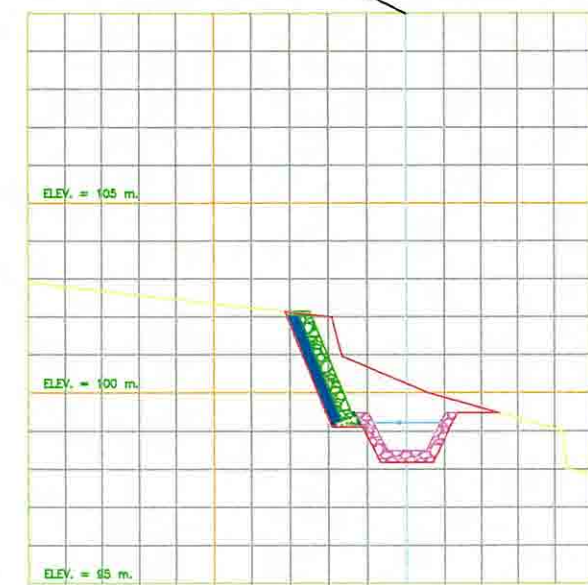
PROFILE
(S = 1 : 500)



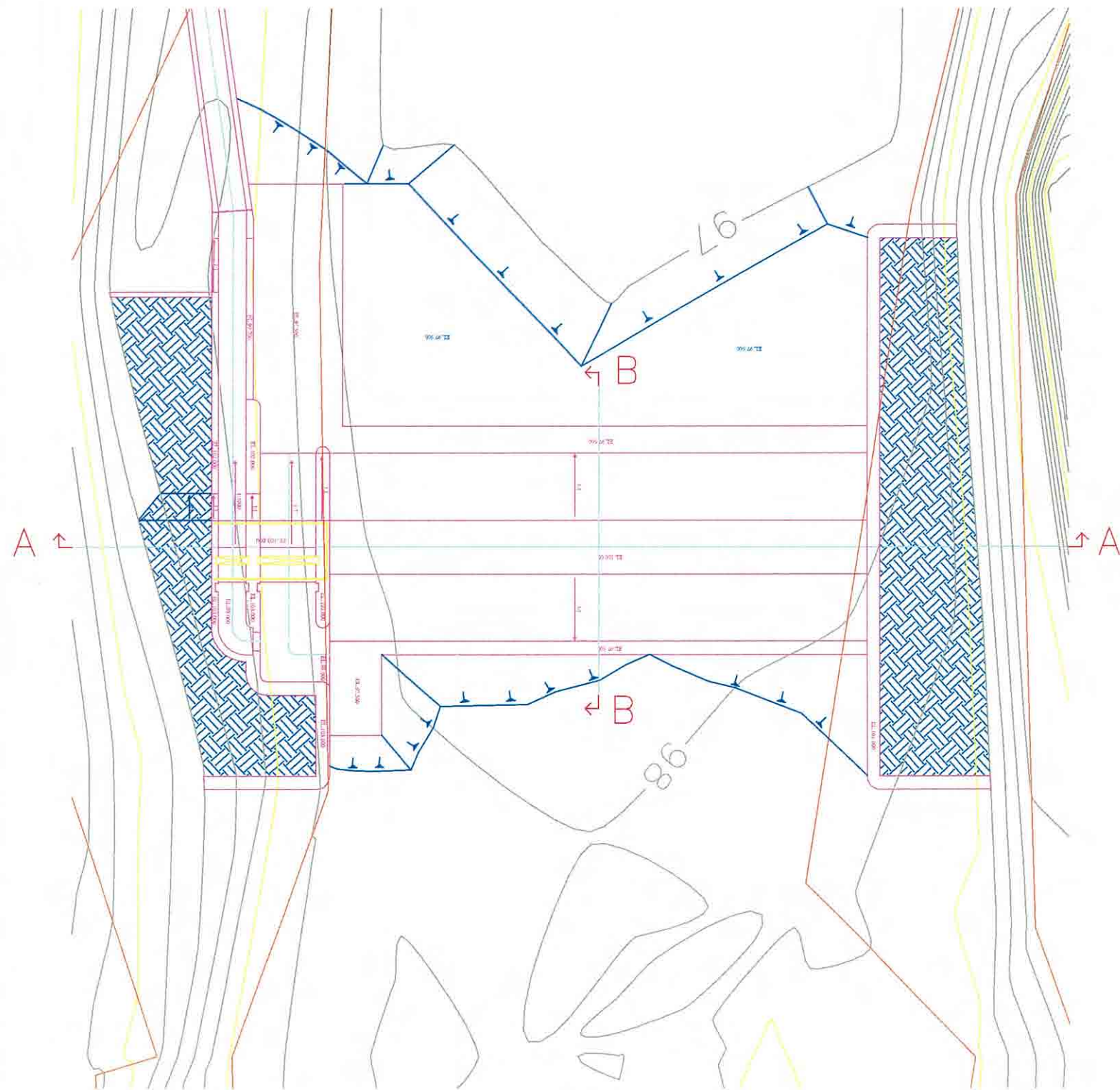
HEADRACE CHANNEL
TYPICAL SECTION 4
(S = 1 : 100)



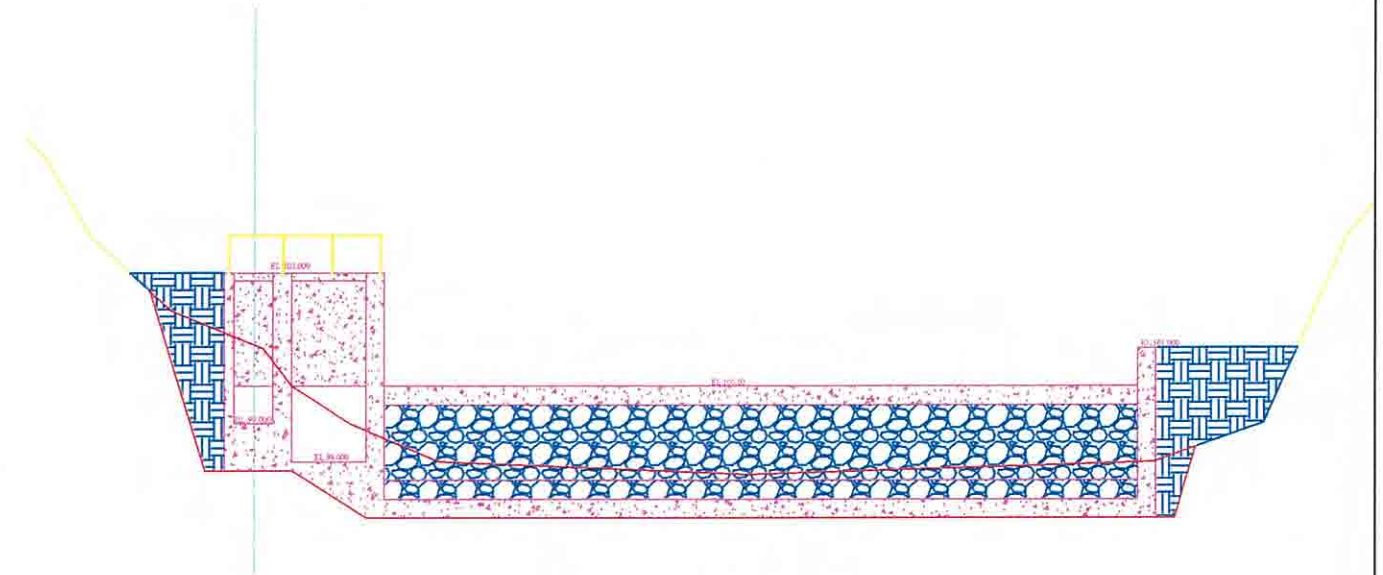
HEADRACE CHANNEL
TYPICAL SECTION 5
(S = 1 : 100)



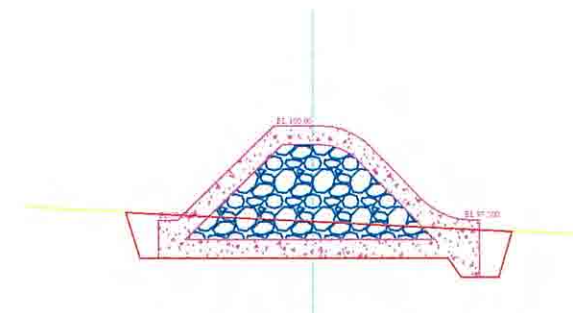
HEADRACE CHANNEL
TYPICAL SECTION 6
(S = 1 : 100)



Plan
(S = 1 : 100)



Section A-A
(S = 1 : 100)



Section B-B
(S = 1 : 100)



JAPAN INTERNATIONAL COOPERATION AGENCY

PROJECT & LOCATION:

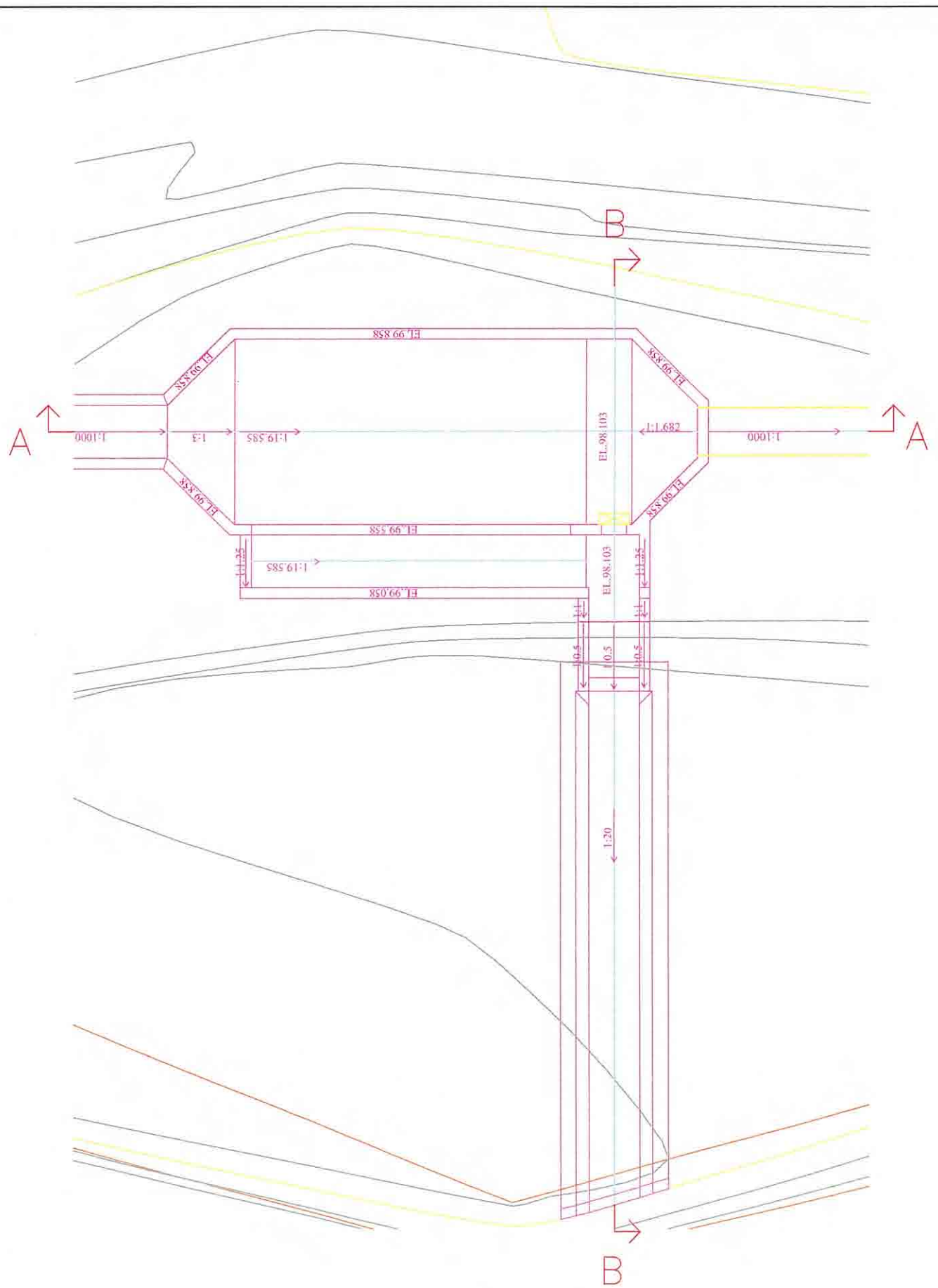
THE BASIC DESIGN STUDY ON THE PROJECT FOR
RURAL ELECTRIFICATION IN NORTHERN LUZON IN
THE REPUBLIC OF THE PHILIPPINES

SHEET CONTENTS

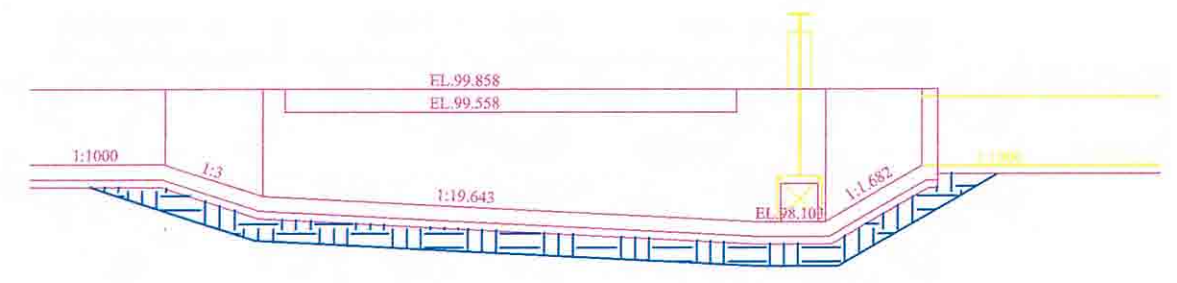
CAMBULO MICRO HYDRO POWER STATION
INTAKE WEIR (PLAN & SECTIONS)
(S = 1 : 100)

Draw. No.

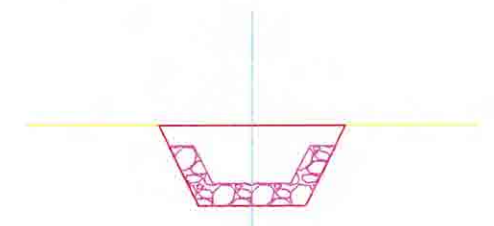
CB-C-005



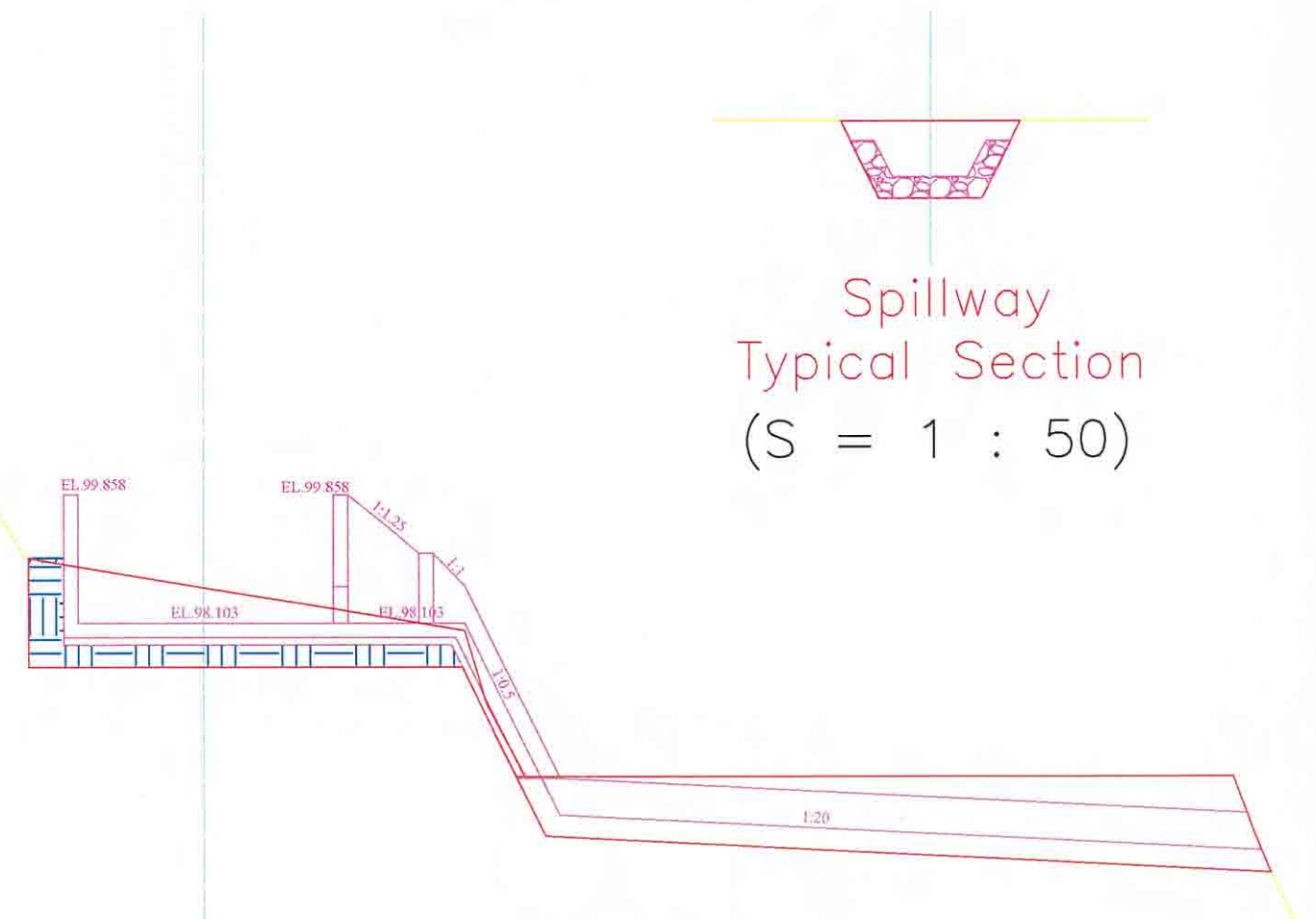
Plan
(S = 1 : 50)



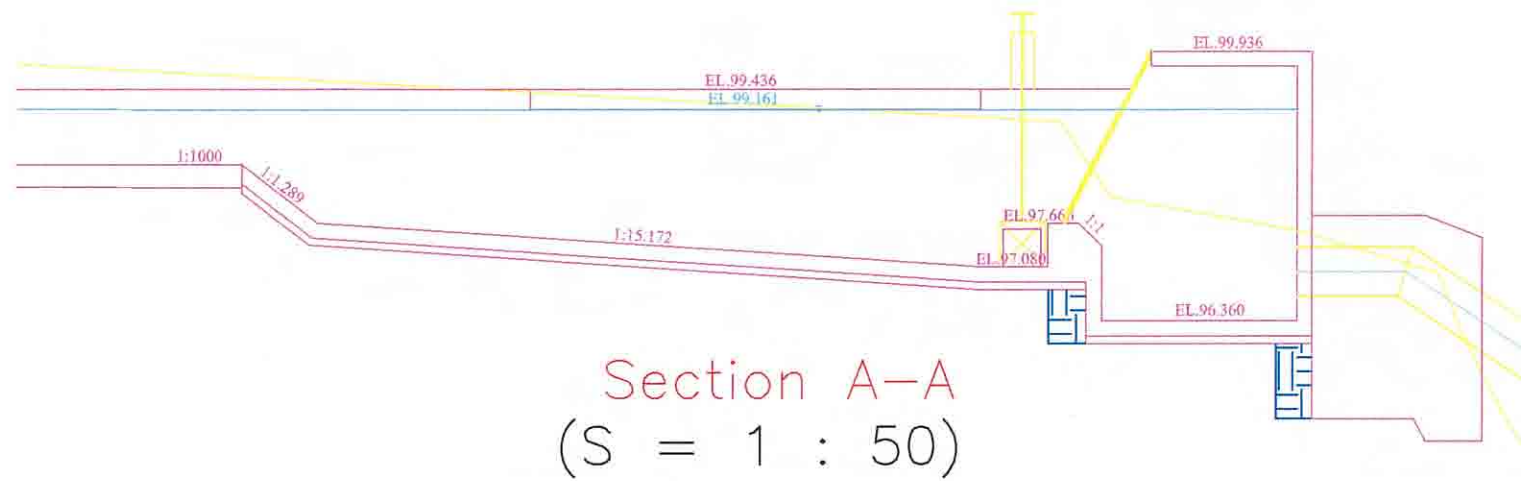
Section A-A
(S = 1 : 50)



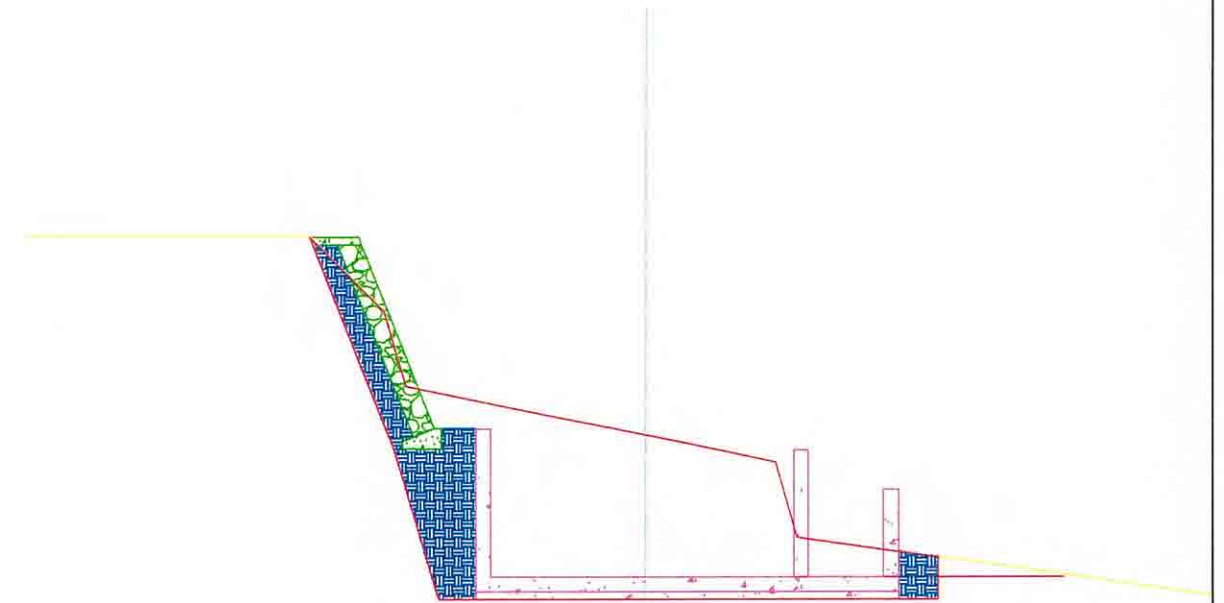
Spillway
Typical Section
(S = 1 : 50)



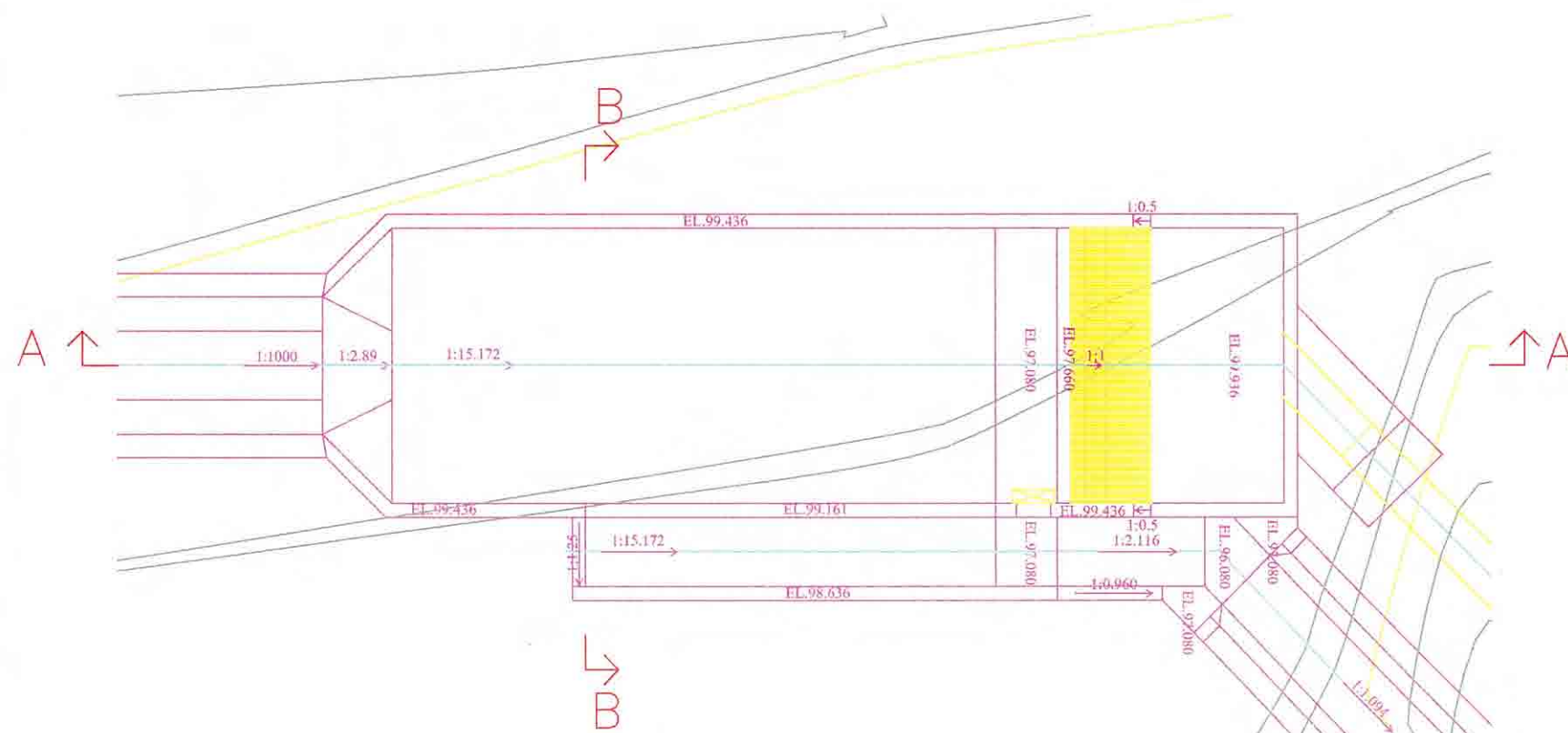
Section B-B
(S = 1 : 50)



Section A-A
(S = 1 : 50)



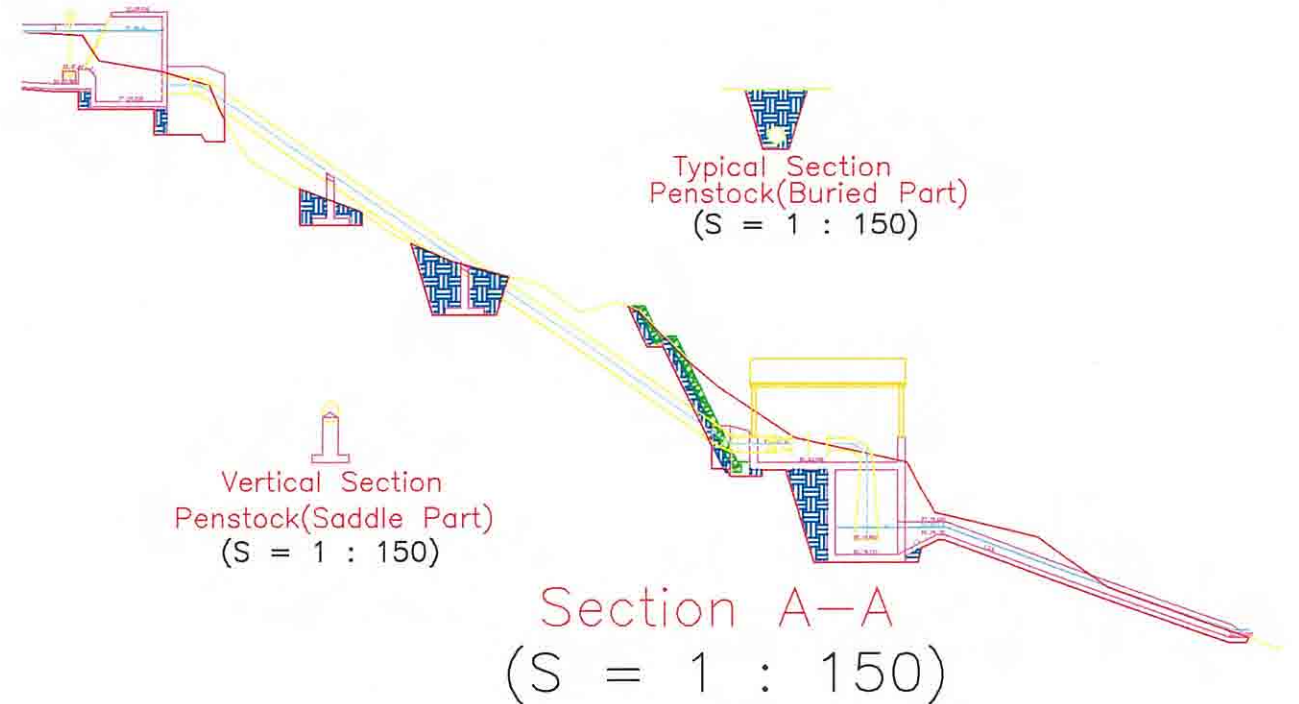
Section B-B
(S = 1 : 50)



Plan
(S = 1 : 50)



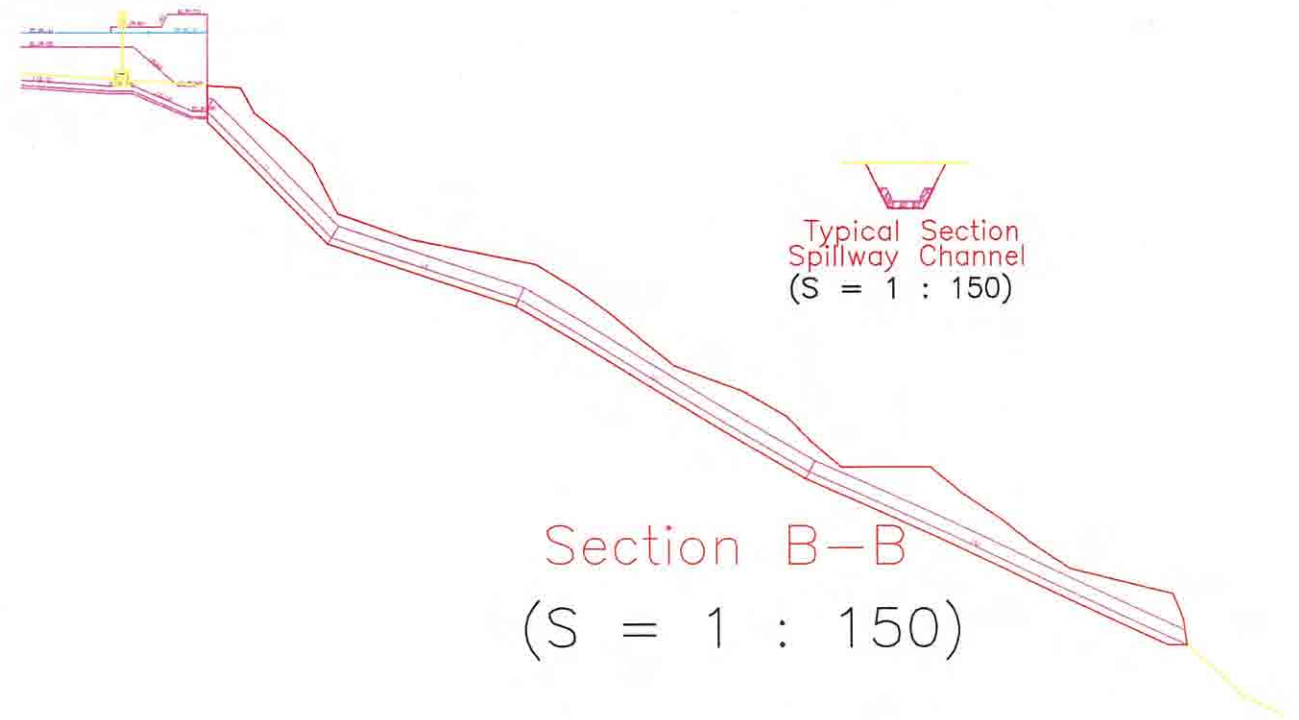
Plan
(S = 1 : 150)



Vertical Section
Penstock(Saddle Part)
(S = 1 : 150)

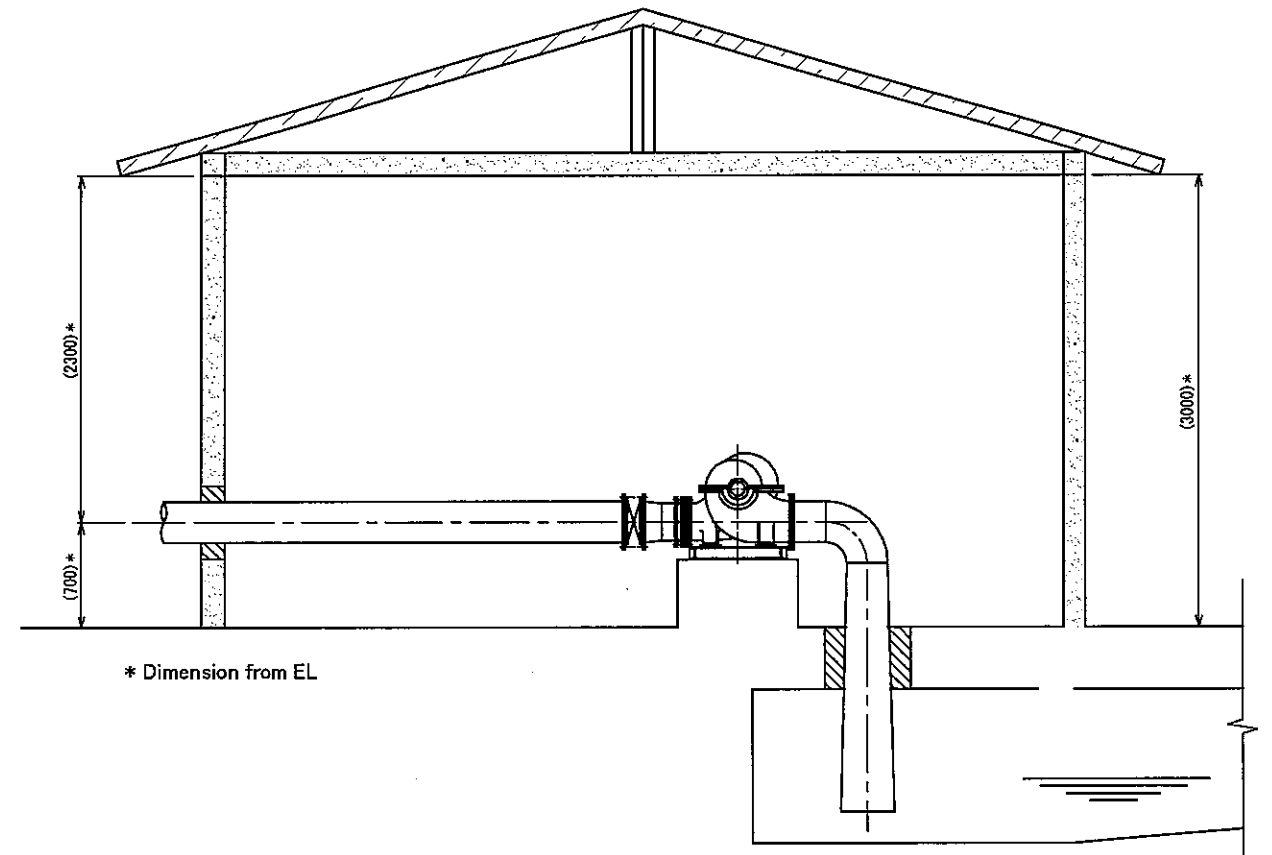
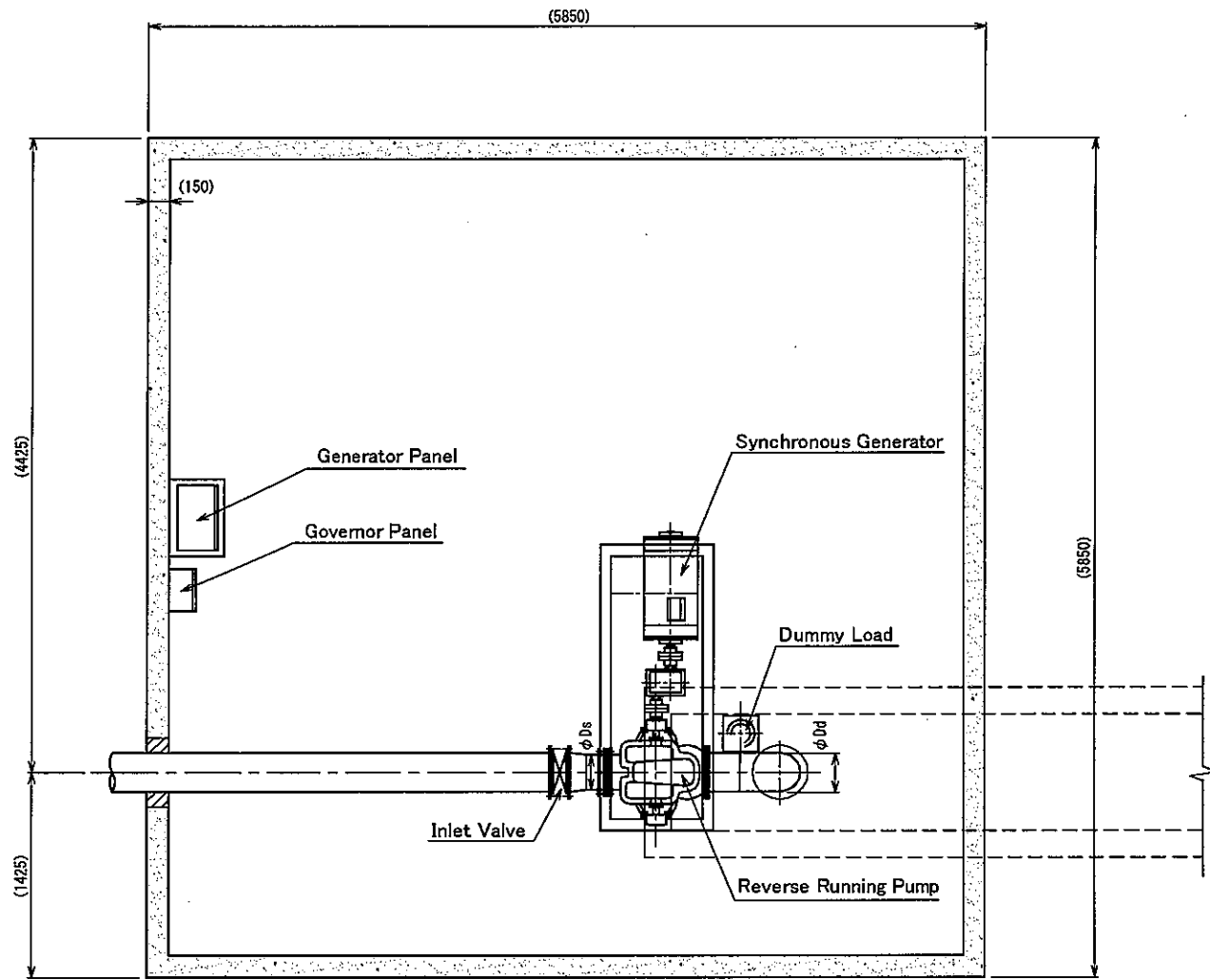
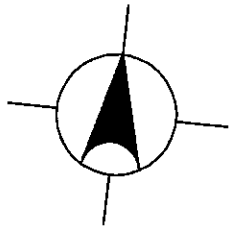
Typical Section
Penstock(Buried Part)
(S = 1 : 150)

Section A-A
(S = 1 : 150)



Typical Section
Spillway Channel
(S = 1 : 150)

Section B-B
(S = 1 : 150)



	Turbine Discharge (m^3/s)	Effective Head (m)	Speed (min^{-1})	Rated Capacity (kVA)	Speed Increase Gear	Dimension	
						D_s	D_d
Cambulo	0.65	18.145	800/1200	120	✓	450	500



JAPAN INTERNATIONAL COOPERATION AGENCY

PROJECT & LOCATION:

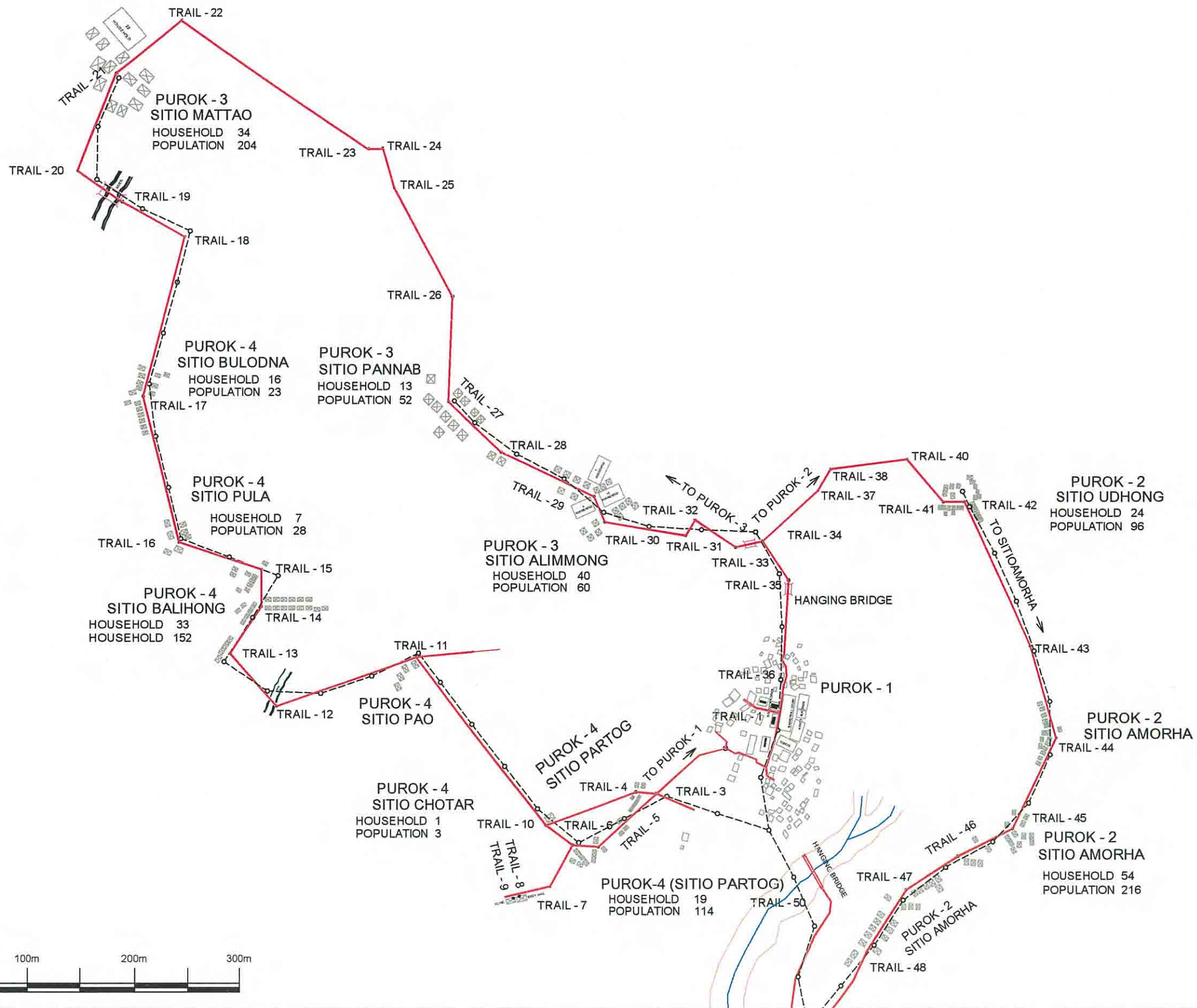
THE BASIC DESIGN STUDY ON THE PROJECT FOR
RURAL ELECTRIFICATION IN NORTHERN LUZON IN
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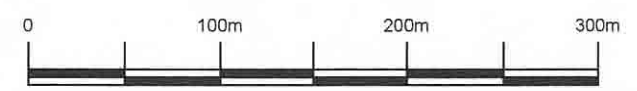
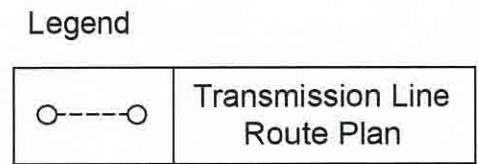
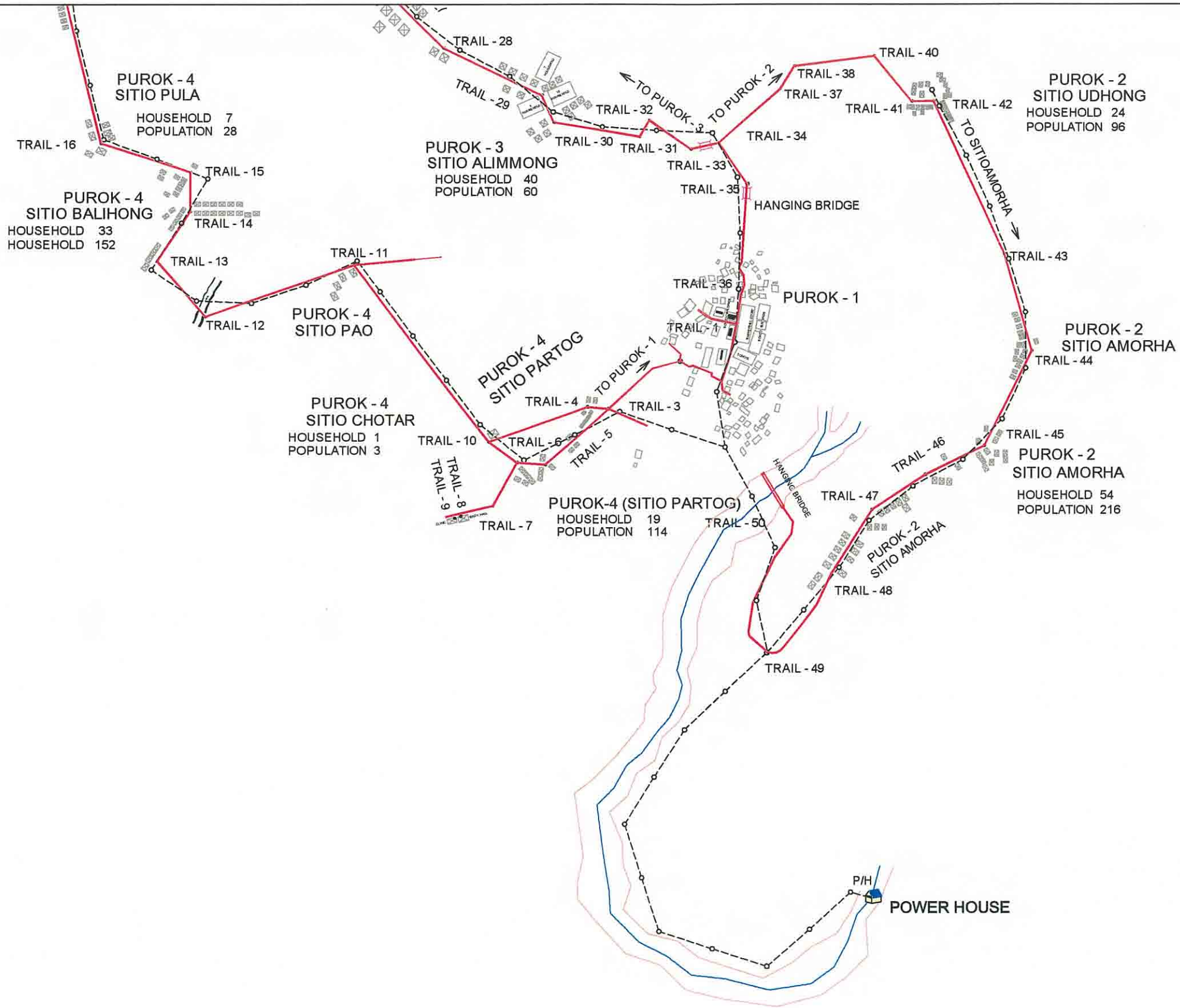
SHEET CONTENTS

Cambulo Micro Hydro Power Station Plan

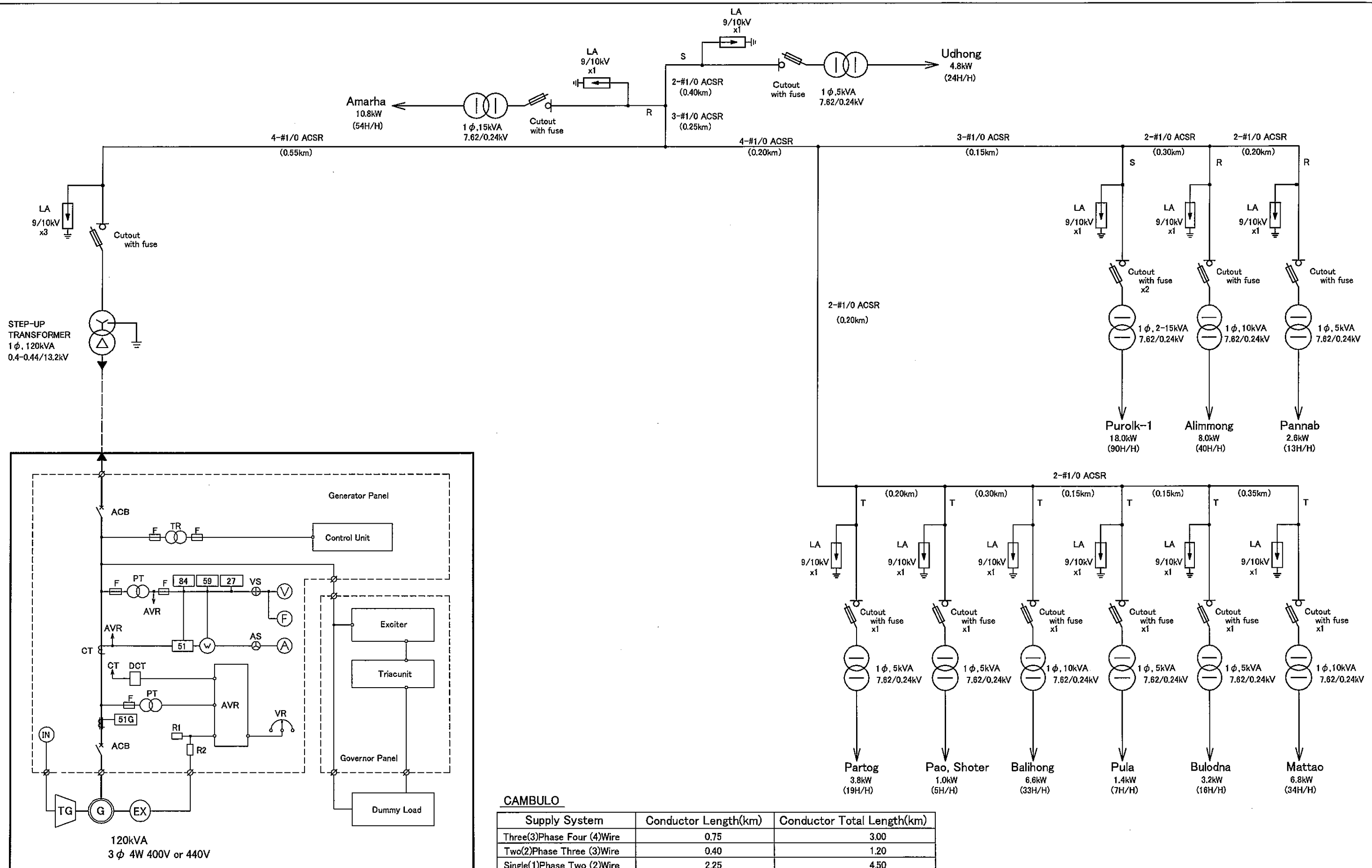
Draw. No.

CB-E-001





JICA JAPAN INTERNATIONAL COOPERATION AGENCY	PROJECT & LOCATION:	SHEET CONTENTS	Draw. No.
	THE BASIC DESIGN STUDY ON THE PROJECT FOR RURAL ELECTRIFICATION IN NORTHERN LUZON IN THE REPUBLIC OF THE PHILIPPINES	Cambulo Transmission Line Plan(1/2000)	CB-E-002 (2/2)



CAMBULO

Supply System	Conductor Length(km)	Conductor Total Length(km)
Three(3)Phase Four (4)Wire	0.75	3.00
Two(2)Phase Three (3)Wire	0.40	1.20
Single(1)Phase Two (2)Wire	2.25	4.50
Total	3.40	8.70

* Spare length of conductor such as sag is not included