* MONTHLY QUTFLOW (M3/S) * CASE 1 (AVAILABLE DRAWDOWN = 65 m)

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*** OPTIMAL SCHEDULE *** CASE 2 (AVAILABLE DRAWDOWN = 20 m)

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	QIN		0.0(31.95)	2.4(17.50)	5.0(14.5	2.5(27.18)	1.7(154.72)	3.8(30.77)	7.4(199.25)	6.9(283.77)	2.4(139.41)	7.7(87.93)		3.7(44.96)	7.71 34 20) 5 37 35 37	67(23.22)	0.3(66.46)	7.44 13.58>	7.8(136.38)	1.5(117.47) 2 0/2/2 72/	5-4(220.82)	6.7(148.89)	4.4(82.72)	3.3(98.37)	4.10 51.1	7.2(38.8	6.00 26.9	9.3(27.3	0.12 VI.2	1.6(132.6	9.3(103.5	8 6(313 6	3.6(103	4.46.70.7	5.9(108.6	5.00 45.00	5.8(35.92	5 20 25 97	VIIC 01150	3.6(166.45	3.56 49.79	8.6(45.7 8.7/ 88 4	0.1(145.49	9.00 67.97	ń.√	
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*** OPTIMAL SCHEDULE *** CASE 2 (AVAILABLE DRAWDOWN = 20 m)

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(m	۰.	01 80 01 80		с. С.	9 0 	76.97	34.3	5	220	ον - < α	1 - C 1 - C 1 - C 2 - M	60.0	4.04	38.3	36.0	33.5	23-C2	4 F 7 A 7 A 7 A 7 A	10 14 14	32.5	33.5	132.28	0. 1 0. 1 0. 1	33.5	2.5	10 10 10 10	4 0 7 t	າ ເຊິ່ງ ເຊິ່ງ	30.6	1 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1α - C - M	27.8	29.1	128.77 102.91	רי רי	1-0 0		14	78.2	2.0 24 2	20.0	0 7 7 0 7 7 7 0	278.13 138.81	46.7
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CASE 2 (AVAILABLE	NIO 20	8(43.83)	987.86 35.28)	6.9(23.77)	444.5(31.64) 440 01 57 07)	2.5(235,75)	163.1(166.55)	866.1(350.52)	506.4(410.00) 277 2/2/0 07/	377 1 (212 57)	208.0(38.97)	560.7(159.48)	95.2(28.88)	32.8(22.60)	99.96 19.35)	48.6(14.95)	40.00 K0.987	82.51 86.53)	64 7(92 41)	89.4(156.31)	28.6(113.83)	96.8(3.23) 3	19-20 59-350	14./(56.16)	78.7(28.35) 3	AL.OC 66.197 A	93.46 9.78)	311.96 42.322 1	736 9(257,90) 3	828.4(58.98) 3	220.21 01.027 3 753 AC 01 70 7	226.5(168.60) 3	550.4(118.35) 3	2(63.52) 3	86.1(38.26) 3	72.2(31.15) 2	28.0(17.60)	250.6(40.34) 1	163.9(305.46) 3	495.0(209:4/) 4 457 7/267 02) 2	356.0(311.87) 3	012.8(258.48) 5	64.14) 5 48.09) 3	350 8(142.80) 3
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# #	S	(M3/5D) 42887.0 40676.1	8084. 5535.	3269.8	7027.3	7123.5	6350.6	8263.9		5031.5	0782.	8359.0	7287.9	6687.0	5592.0	7061.8	7414 0	251.4		2838.	8877.	8877.	8877.3	0404.71 5862.3	8051.8	2957.1	48253.5	6983.3		4248.5	0035.2	7638.6	6043.0	2410.2	4753.4	46889.5 48263.9	7710.4	5523.8
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* MONTHLY INFLOW (M3/S) * CASE 2 (AVAILABLE DRAWDOWN = 20 m)

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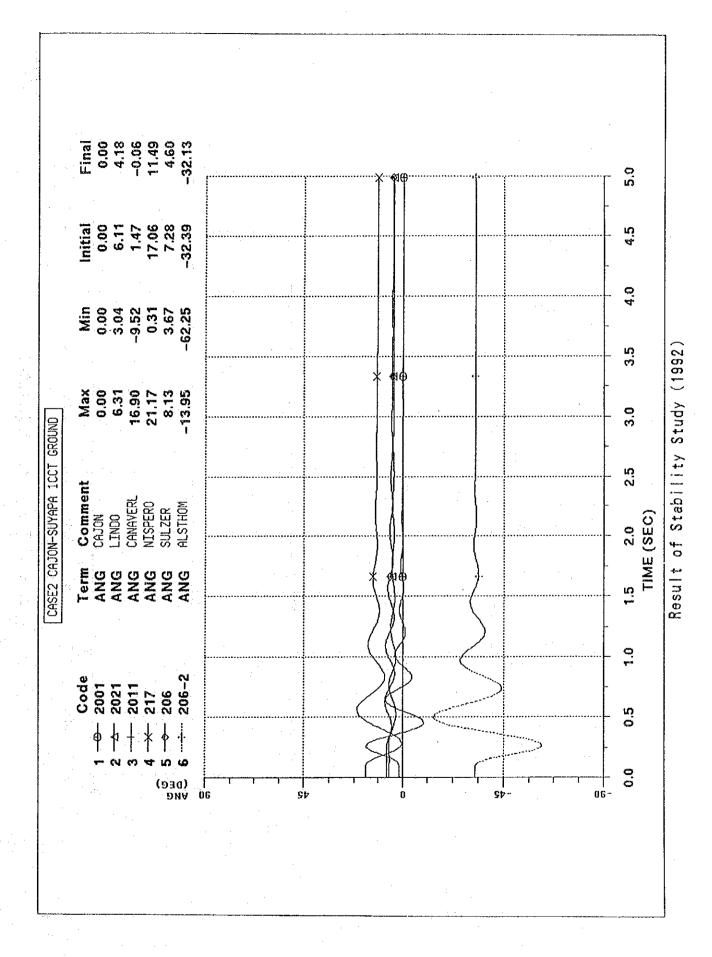
AP-5 POWER TRANSMISSION PLAN AND POWER SYSTEM ANALYSIS

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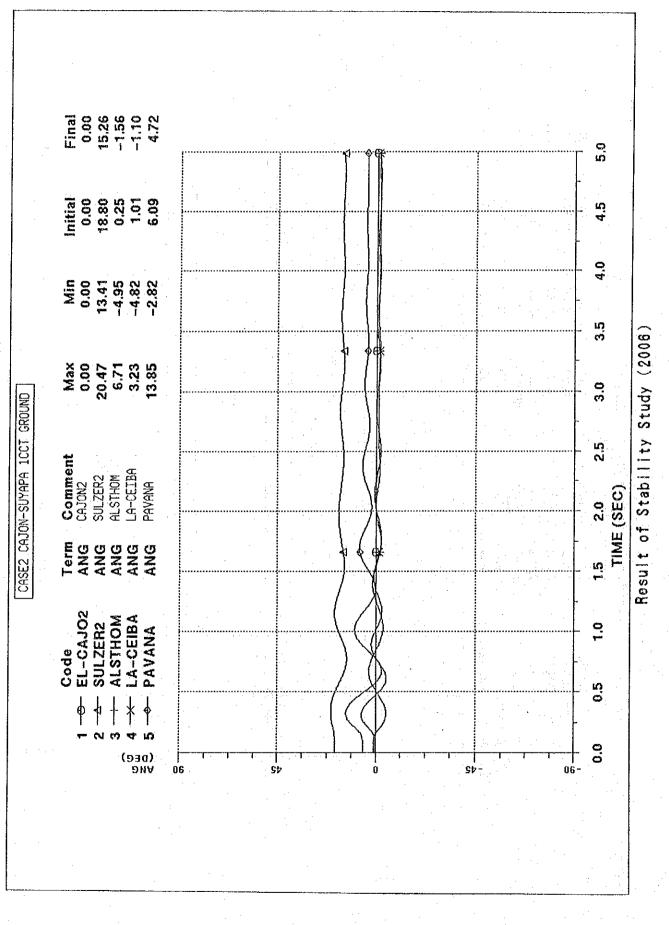
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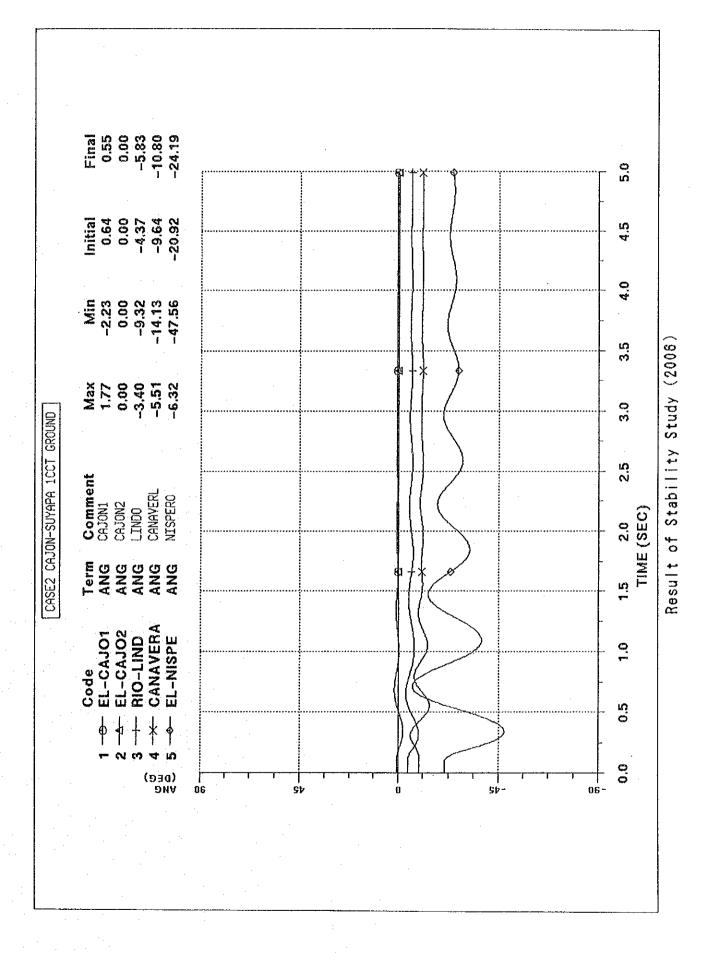
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AP-6 FEASIBILITY DESIGN

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4 Units Amplification Version

t. Outline of Civil Structures

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The El Cajón Hydroelectric Power Plant started operation in 1985 with the maximum output of 292 MW (73 MW \times 4 units) as the first stage of the project. Considering the future amplification (292 MW : 73 MW \times 4 units), the water intake, ground for the switchyard, part of the penstock and powerhouse were arranged in advance at the time of the first stage construction.

The amplification project is made for 292 MW (73 MW \times 4 units) the same as the original plan and the penstock, powerhouse and tailrace were designed using the channel route (C and D routes) in the original amplification plan.

The outline of civil structures related to the amplification is described below.

Intake (constructed)

Туре	· 1	Inclined type with gate shaft
Number of lines	:	2
Maximum capacity	:	107.20 m ³ /sec
Inside diameter	:	4.20 m (Tunnel section)

Penstock (Partly constructed)

Туре	t ,	Underground type
Number of lines	; .	Two
		Four after branch (C and D routes)
Maximum capacity	•	107.20 m ³ /sec,
		53.60 m ³ /sec after branch
Diameter	- 1	4.20 to 3.00 m

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Length	: (C route)
	One line part 293.821 m
	(94.945 m constructed)
	Two lines part 24.910 m and 37.767 m
	(D route)
en en ser en de la composition de la co	One line part 254.831 m
	(74.612 m constructed)
independent of the second second	Two lines part 27.216 m and 14.260 m
Plate thickness	: 24 to 51 mm (C route)
	24 to 49 mm (D route)
Branch type	: T type branch

Powerhouse (Partly constructed)

Туре	:	Underground type
Width	:	29.50 m
Height	• •	41.40 m
Length	:	72.75 m
Turbine type	:	Vertical shaft Francis
Unit number	:	4
Turbine center EL.	:	96.00 m

Tailrace

Туре	: Circular and semi-circular pressure tunnel
Number of lines	: 4
Inside diameter	: 4.20 m (circular section)
	(Height) 5.10 - 6.35 m x (Width) 5.10 m
	(semi-circular section)
Length	: 88.00 ~ 91.00 m
	(circular section: 81.50 m,
	semi-circular section: 6.50 ~ 9.50 m
	"without lining")
Gradient	: 1 : 7.913
Maximum capacity	: 53.60 m ³ /sec

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Tailrace (Service gallery)

Туре		Semi-circular
Height	анан Алан Таратан Таратан	7.00 m

Width	:	3.00 m
and a second		

Length : 45.00 m

Tailrace (Gate shaft)

Туре	:	Elliptic (vertical shaft)
Sectional dimension	:	3.00 x 7.00 m
Height	:	24.28 m

Outdoor switchyard site (Constructed) Width : 39.85 m Length : 148.50 m

2. Outline of Design (4 Units Amplification Version)

2.1 Design of Penstock

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The horizontal and vertical routes for the amplification project was set out at the time of the first stage construction and the intake gate shaft joint to the curved pipe part at the start end of the inclined shaft was already constructed in the first stage work. In designing the amplification, the route, inside diameter, concrete thickness, geology, etc. were studied and the original design was adopted with no change in consideration of economy and workability.

That is, the route D is used as the penstock route for 2 units in the existing powerhouse side and the route C for 2 units in the downstream side. The penstock route is the inclined shaft from the end of the constructed part (from the intake gate shaft joint to the curved pipe part at the start end of the inclined shaft) to the lower horizontal shaft (EL. 961.00 m). It is connected to two turbines by providing the branch pipe in the horizontal shaft part at the end of the penstock. The inclined shaft is 38 degrees in relation to the branch pipe and T type branch pipe is used because the penstock and powerhouse shaft are parallel. As for length of the penstock of the route C, one line part is 293.821 m (94.945 m constructed) and two lines part is 24.910 m and 37.767 m, and as for length of the penstock of the route D, one line part is

AP-6-3

254.831 m (74.162 m constructed) and two lines part is 14.162 m and 27.162 m. As for the inside diameter of the penstock, the one line part is 4.20 m and two line part is 3.00 m. The penstock is installed at underground and a void space between penstock and ground is filled with concrete.

The pipe shell material uses SM41 (JIS standards) and pipe thickness was decided by calculating the water hammer pressure. The result is shown in **Fig. 5,6.** The water hammer pressure of the route C at the inlet of the turbine is 44.8% of hydrostatic pressure and that of the route D is 37.7%.

2.2 Design of Powerhouse

The intake and part of the penstock were constructed in the first stage work to make installation of a maximum of four amplification turbines possible. Excavation of the joint to the existing powerhouse (7.50 m) was completed in the first stage work.

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The amplification project proposes four turbines and generators and the position of the turbine axis, shape of the cavity, etc. were studied in designing the amplification. As a result, they will be united with the first stage work (73 MW \times 4 turbines) as planned originally and will be installed in a column on the downstream side of the existing powerhouse. The cavern section dimension (width 29.50 m, height 41.40 m), turbine center elevation (EL. 96.00 m) and distance of turbine axis (15.00 m) is the same as the first stage work. The length of the amplification of cavern is 72.75 m.

Four Francis turbines with vertical shaft, generators, main transformer room, control board room, cable processing room, overhead crane supports are provided in the cavern.

Because the amplification powerhouse uses the same cavity as the first stage work and the assembly room, overhead crane, drain pit and access tunnel (serving also as cable tunnel) are shared. ł,

(1) Tailrace tunnel

One tailrace tunnel is constructed for one turbine in the same way as the first stage work. The route is at a right angle to the powerhouse center in the first stage work but amplification routes (two lines) are set 4°30' upstream from the normal direction in consideration of topography of the outlet. The elevation of the starting point is EL.88.20 m the same as the first stage work. The tunnel length is 91.00 m for the most downstream tunnel and 88.00 m for the other 3 tunnels. The gradient of the tunnel rises toward the outlet by 1:7.913.

The circular cross section (with inside diameter of 4.20 m, concrete lined) has been selected for the section of the tailrace tunnel down to 81.50 m from the powerhouse, similarly to the first stage work. The 6.50 m length from the outlet (9.00 m for the most downstream tunnel) has the cross section which is upper half is circular and lower half is rectangular. This reason is that, while it is customary to construct the tailrace by providing the cofferdam, the tailrace in this project is planned to be constructed by starting from the power plant all the way, because the coffering is difficult in this case, and the operation of the existing power plant will have to be shut down for a long period if cofferdam is provided. (The detail is shown in Construction Planning)

(2) Service Gallery

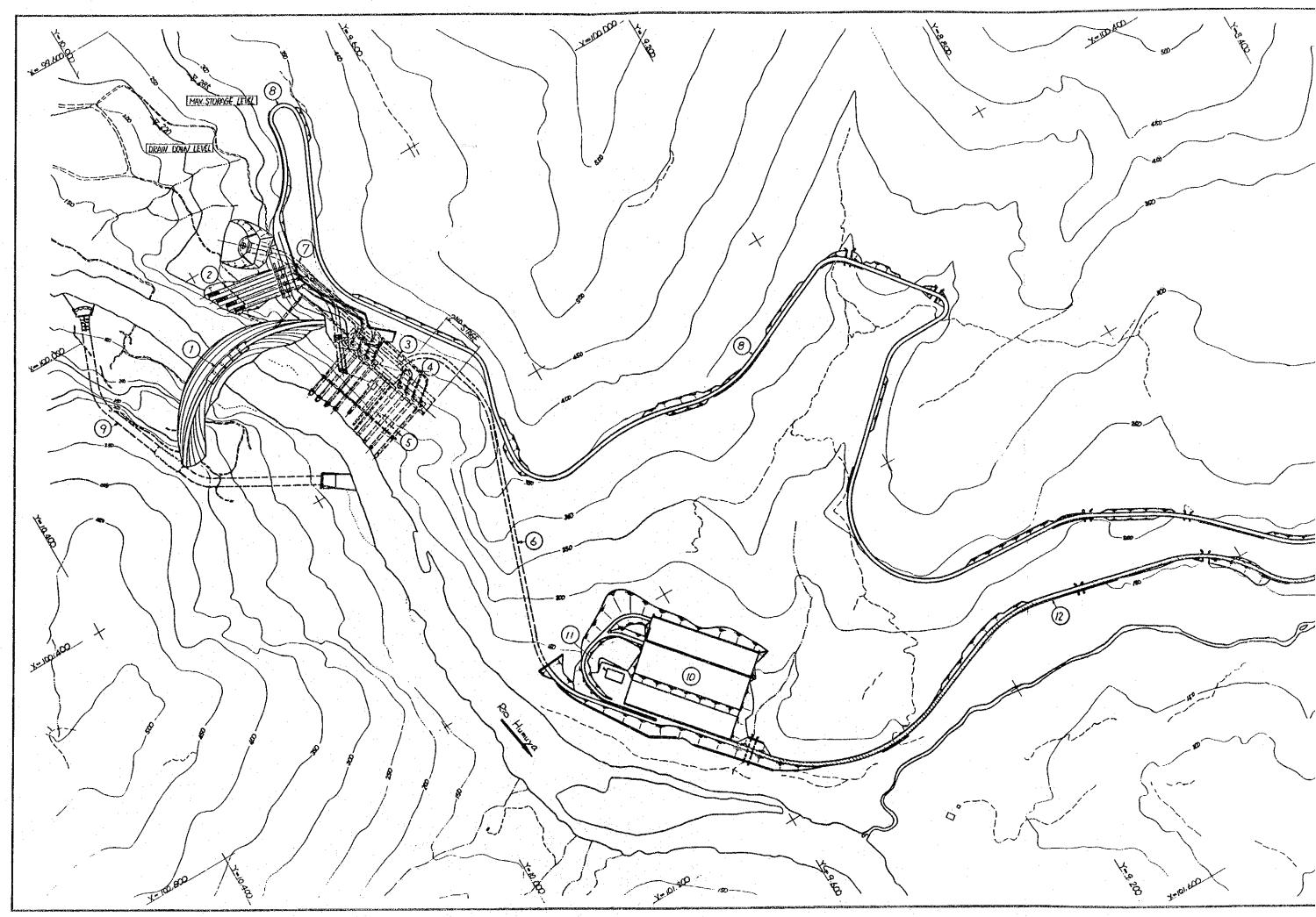
The service gallery is provided for the maintenance work management of the tailrace tunnel and gates, and it will be provided by expanding the existing Santa Barbara Horizontal Shaft (the access tunnel to the service gallery of the first stage work) for the 77.00 m section from the joint made in the first stage work. The cross sectional geometry and dimensions are similar to those of first stage work, and the service gallery will have the cross section which upper part is a circular arch and the lower part is rectangular, being 3.00 m wide and 7.00 m high.

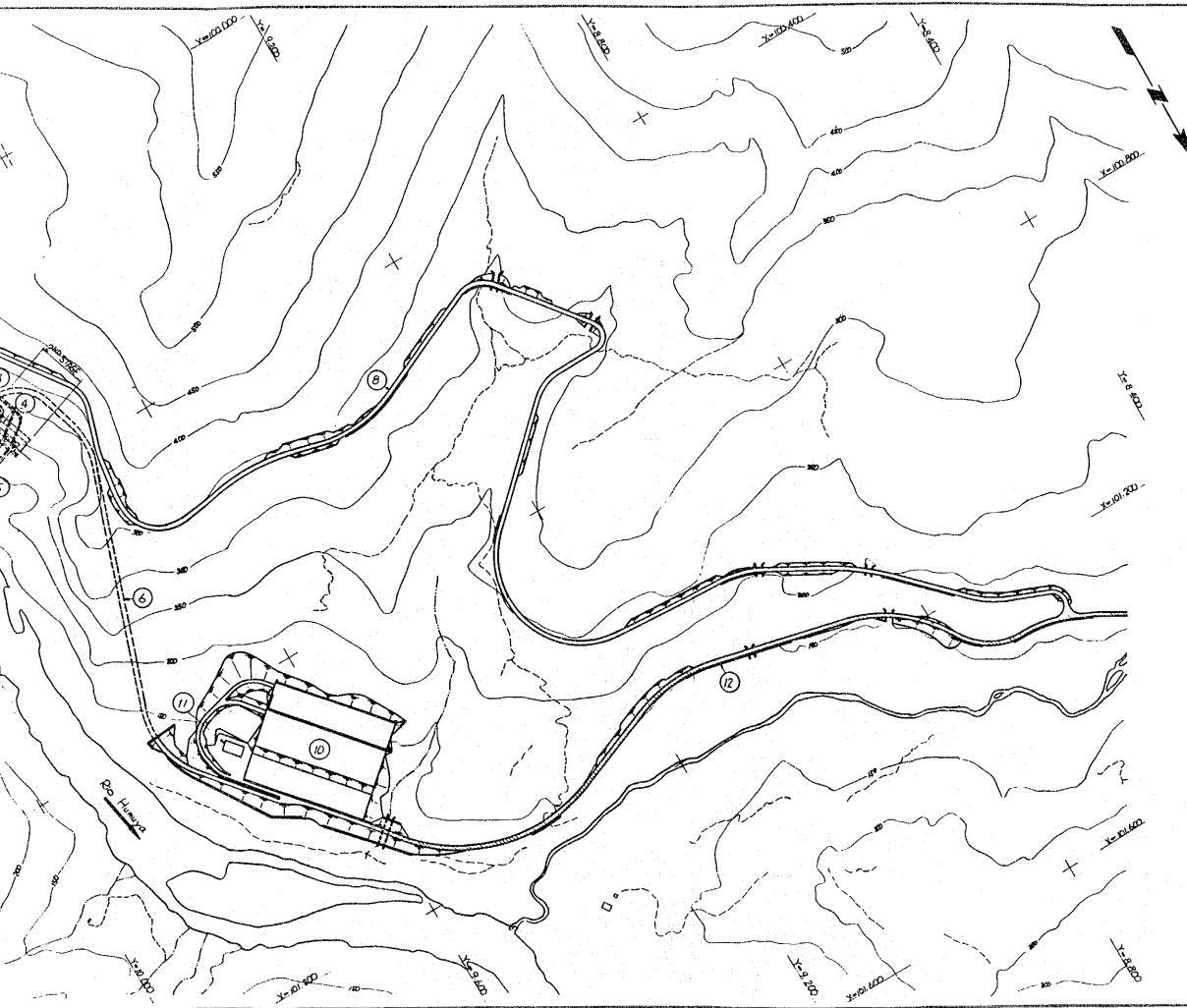
(3) Service Shaft

The service shaft is a vertical shaft used for opening and closing of the tailrace gate, and it is directly connected to the service gallery. The position of the service shaft was selected at a point which is 53.24 m from the starting point of the tailrace tunnel, in view of the relative position of the service gallery. The cross sectional geometry is an ellipse (3.00 m x 7.00 m), similarly to the first stage work and the height is 24.28 m.

(4) Outdoor Switchyard Site

The amplification site (for four turbines) was arranged in the first stage work. The size of the site is 39.85 m wide and 148.50 m long.

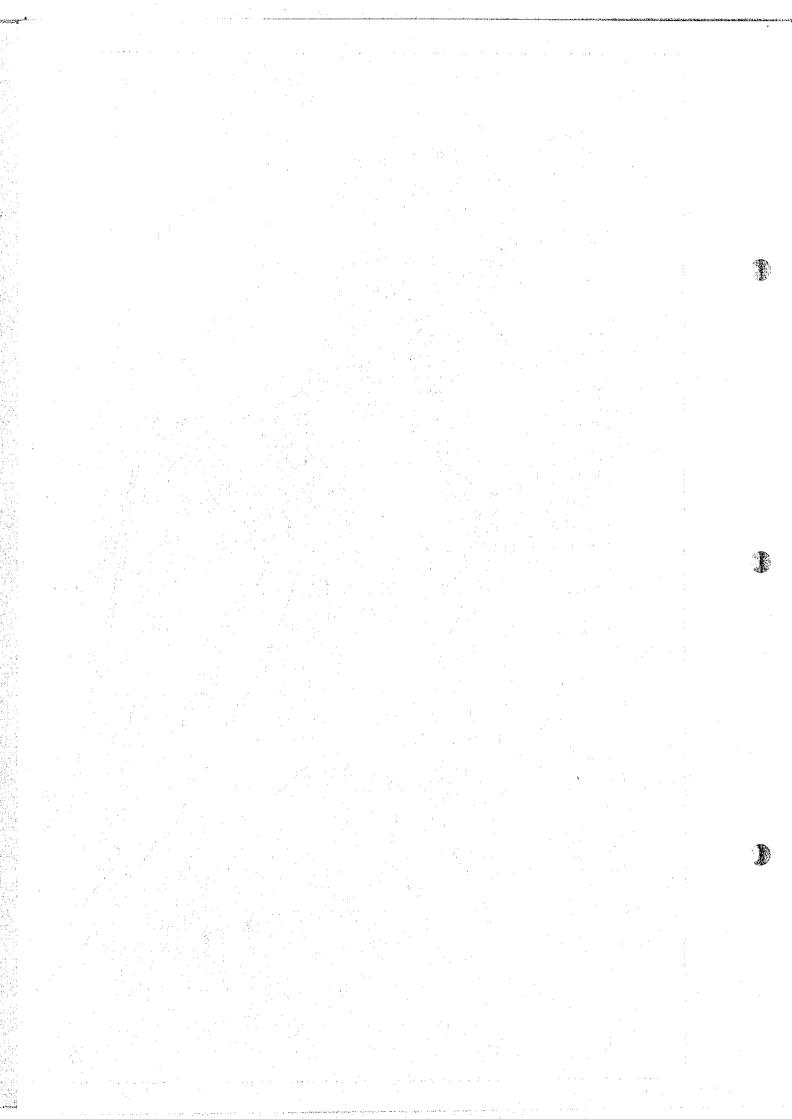


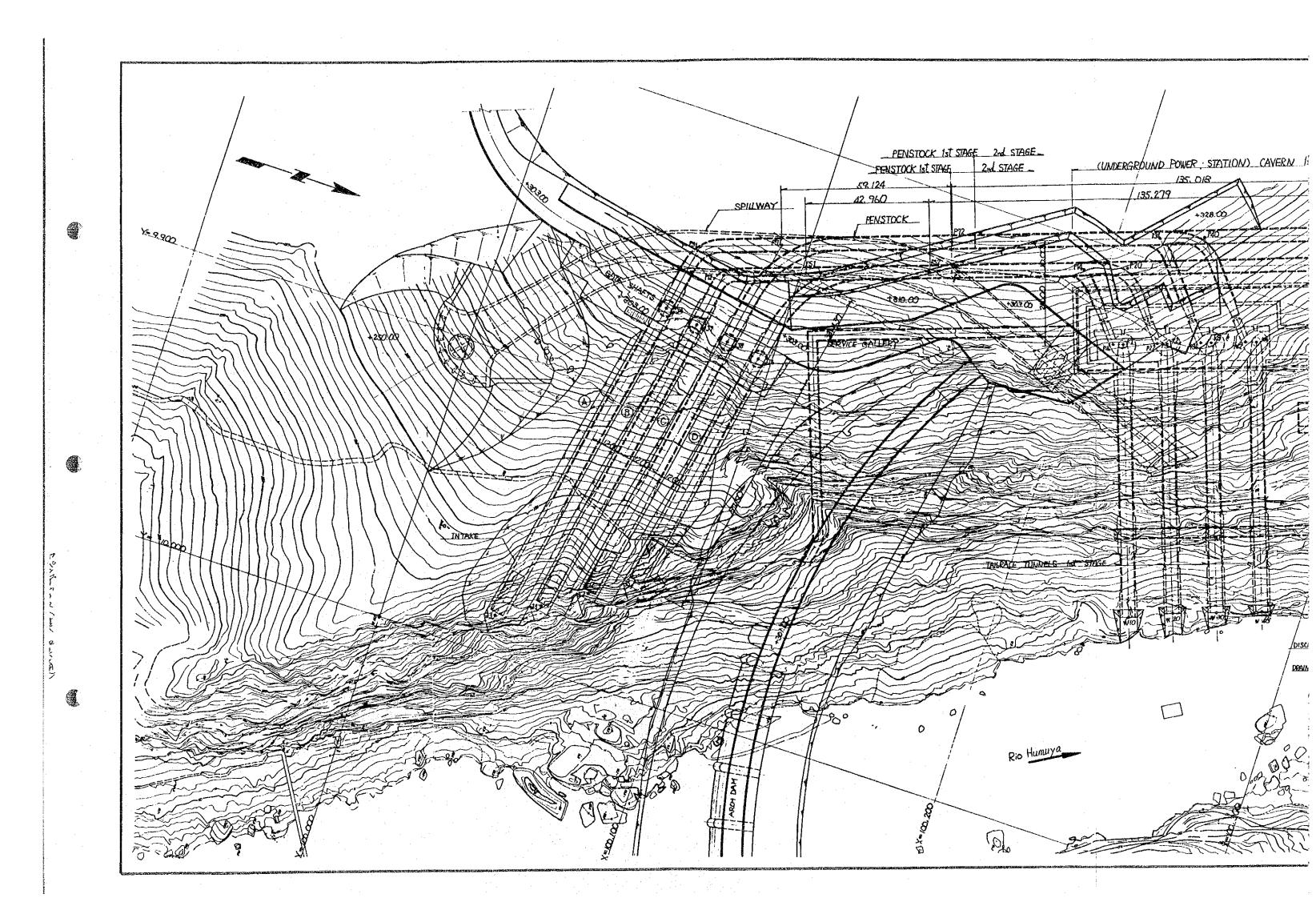


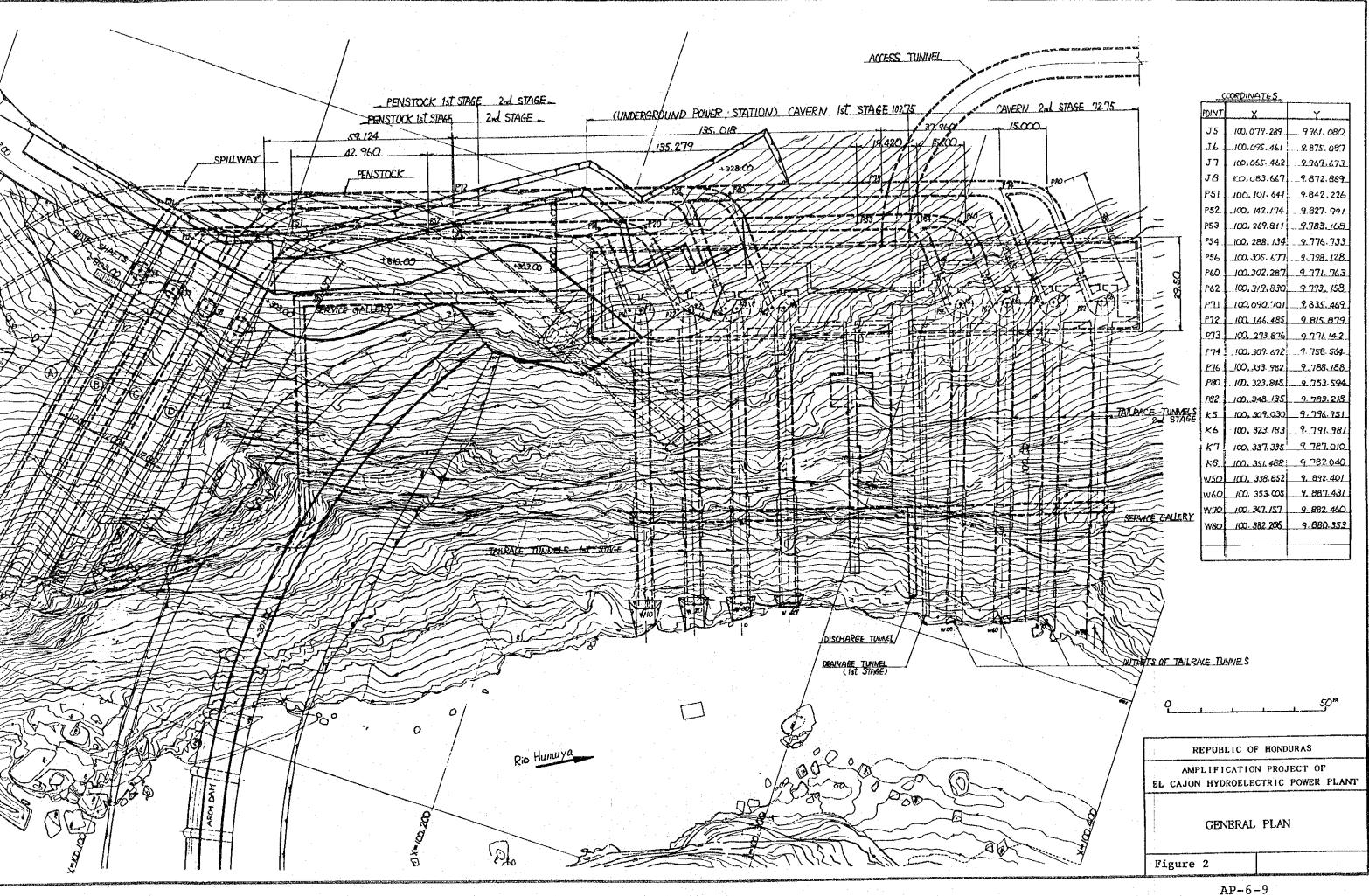
LEGEND

- () ARCH DAM
- 2 INTAKES
- 3 PENSTOCK
- (4) UNDERGROUND POWER STATION
- 5 TAILRACE STRUCTURES
- G ACCESS TUNNEL
- (7) SPILL WAY
- (8) ACCESS ROAD TO DAM CREST
- 9 DIVERSION TUNNEL
- 0 SWITCHYARD
- (1) CONTROL BUILDING
- (2) ALCESS ROAD TO POWER STATION AND SWITCHYARD
- ACCESS ROAD FROM STA CRUZ DE YOJDA. BUILT BY ENEE

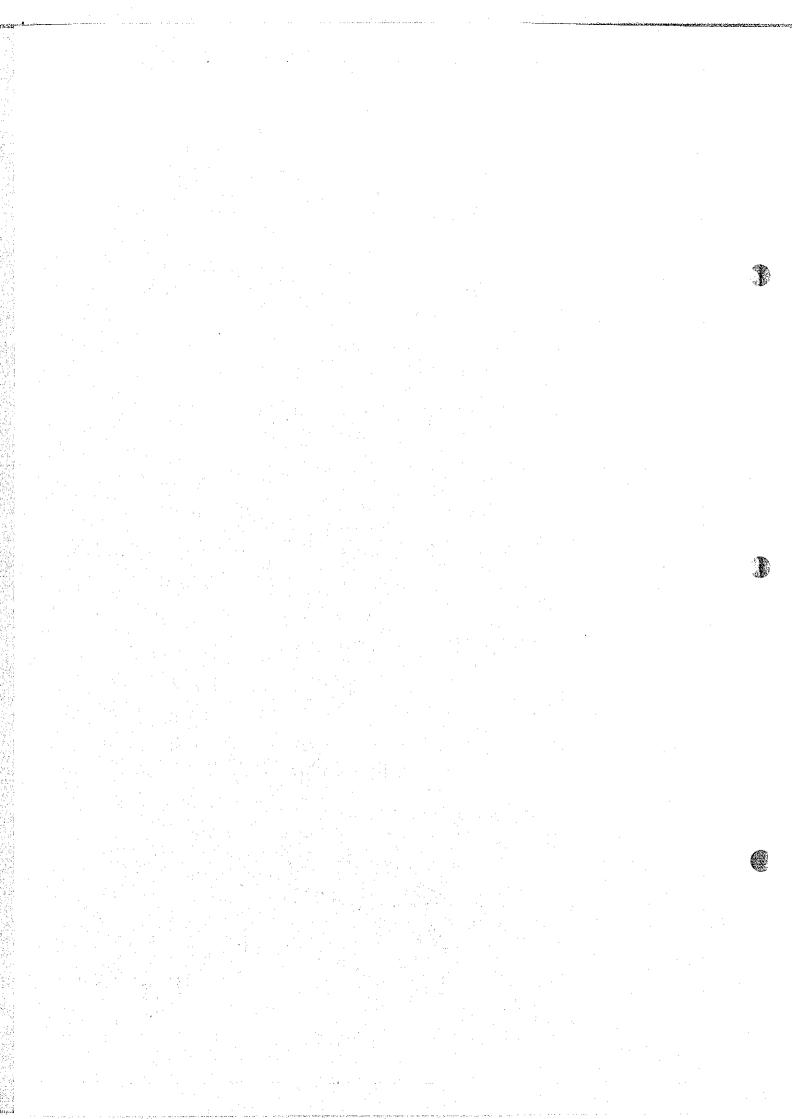
250 m REPUBLIC OF HONDURAS AMPLIFICATION PROJECT OF EL CAJON HYDROELECTRIC POWER PLANT GENERAL LAYOUT Figure 1

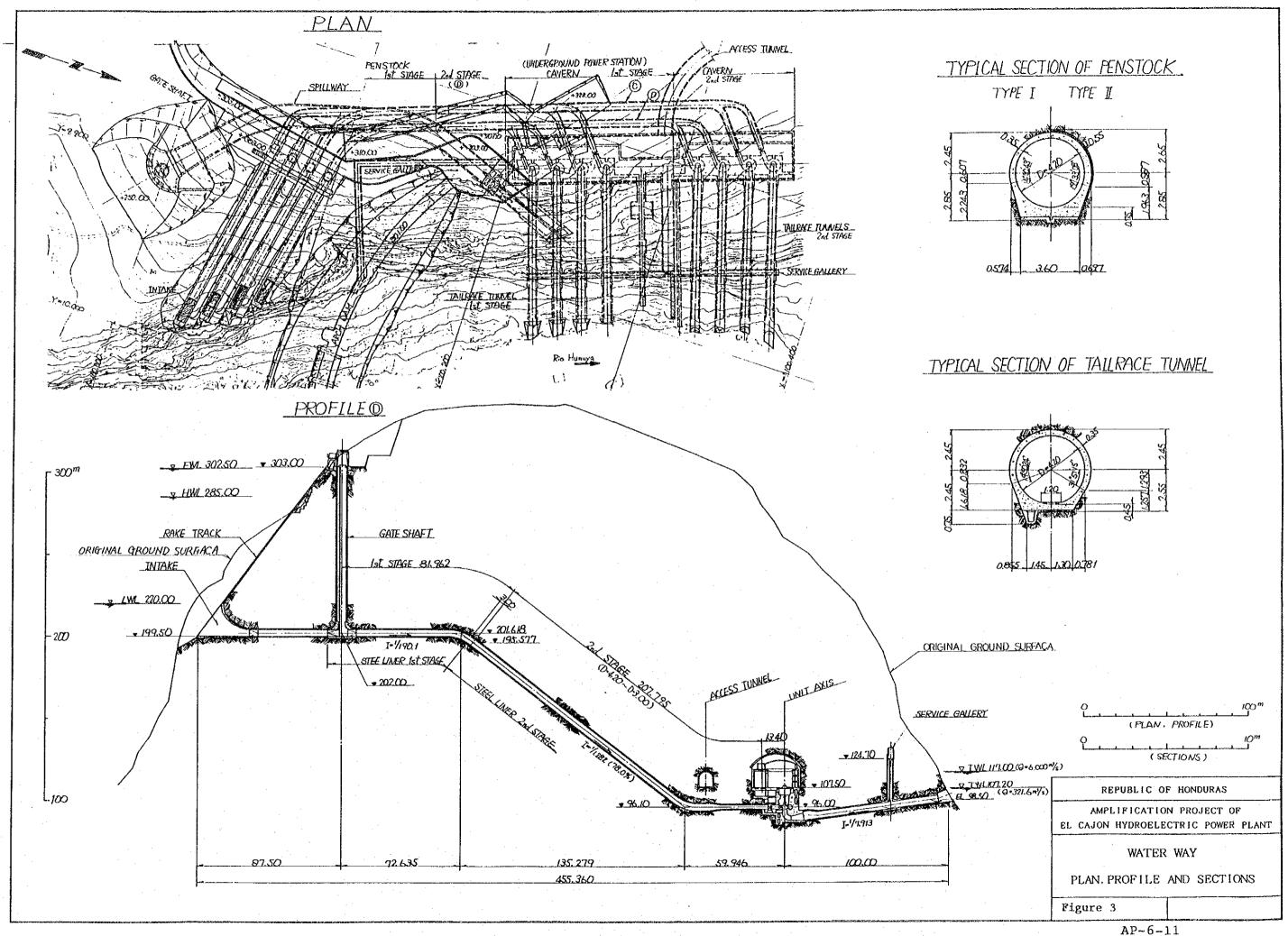


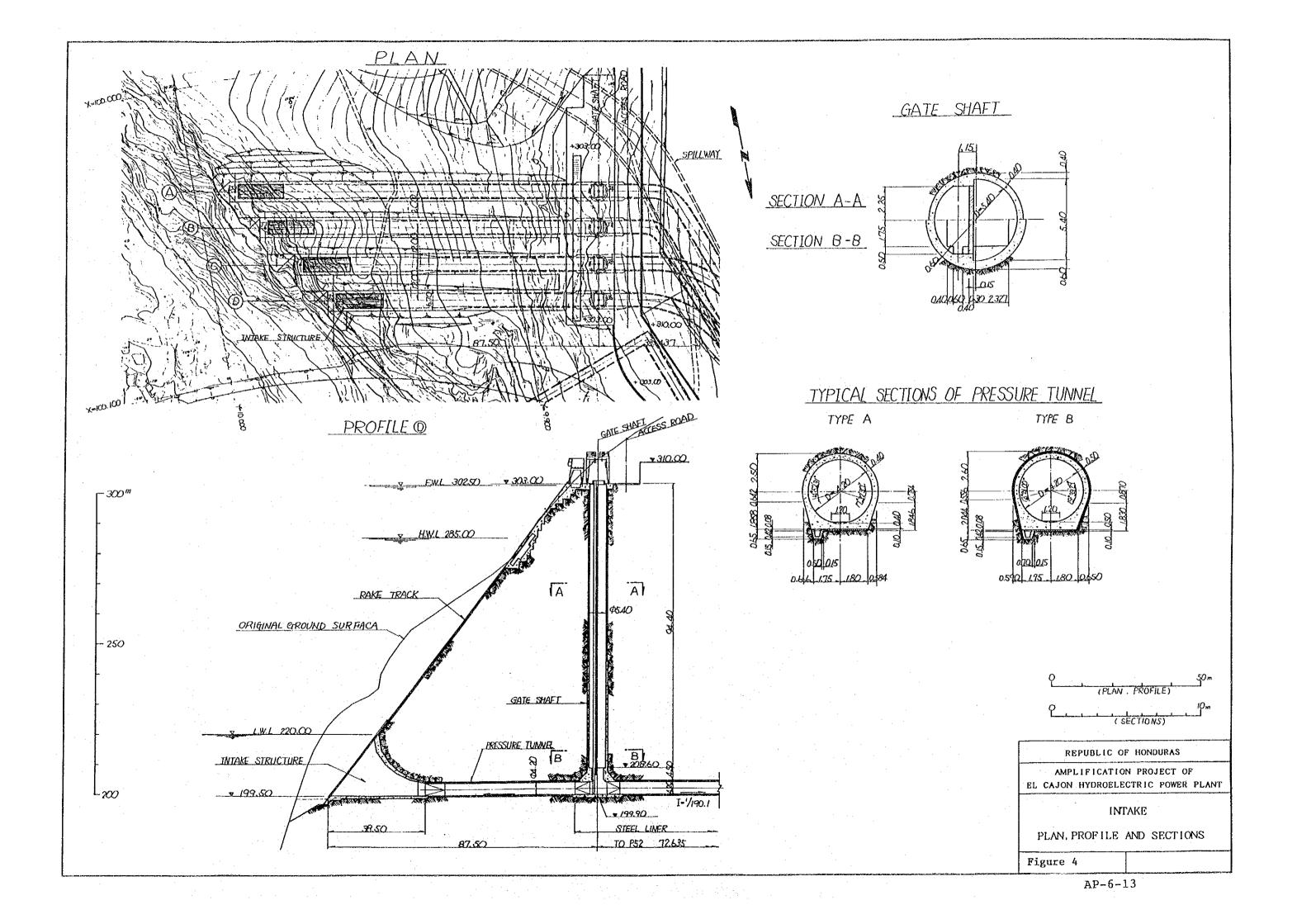


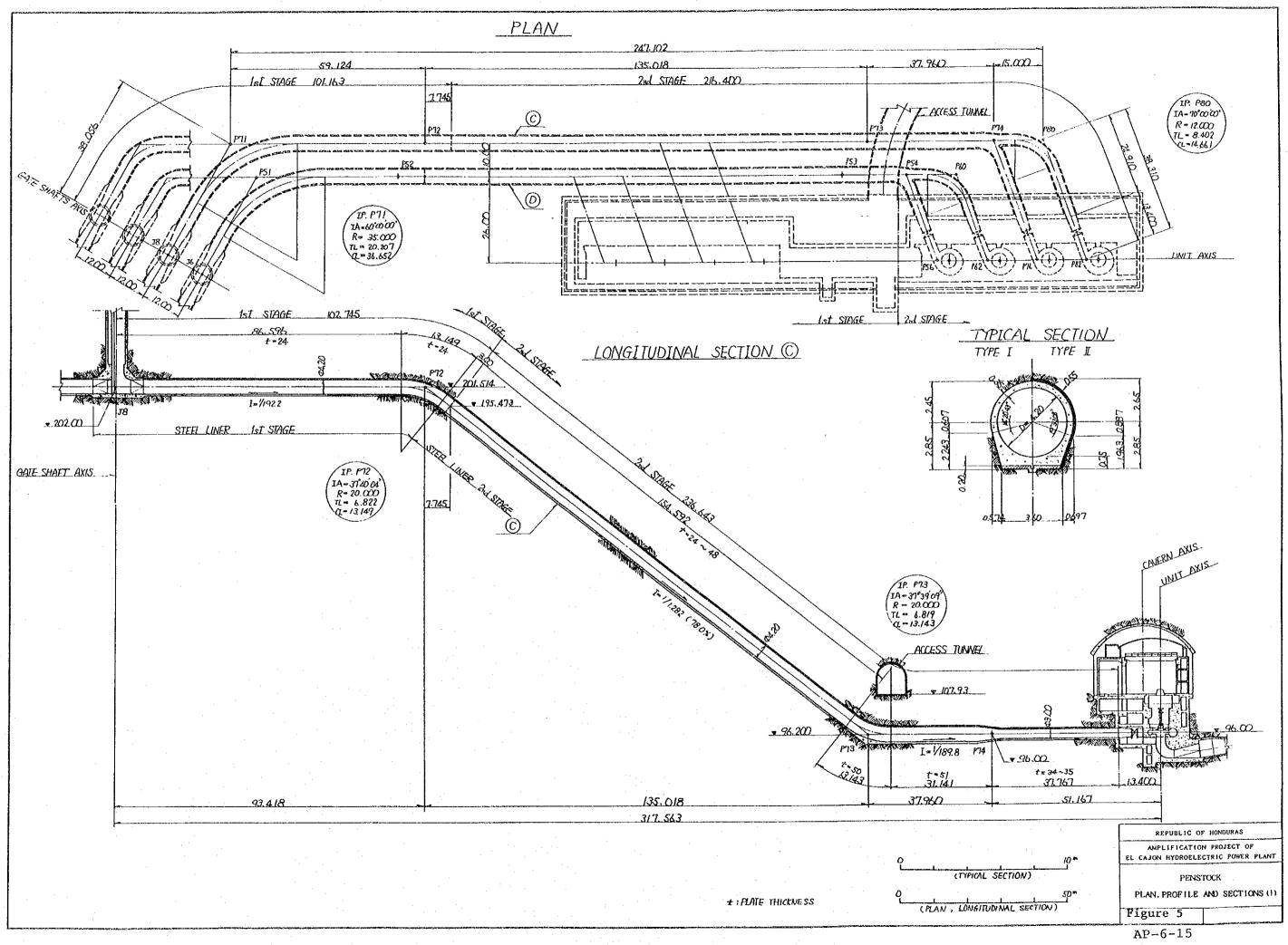


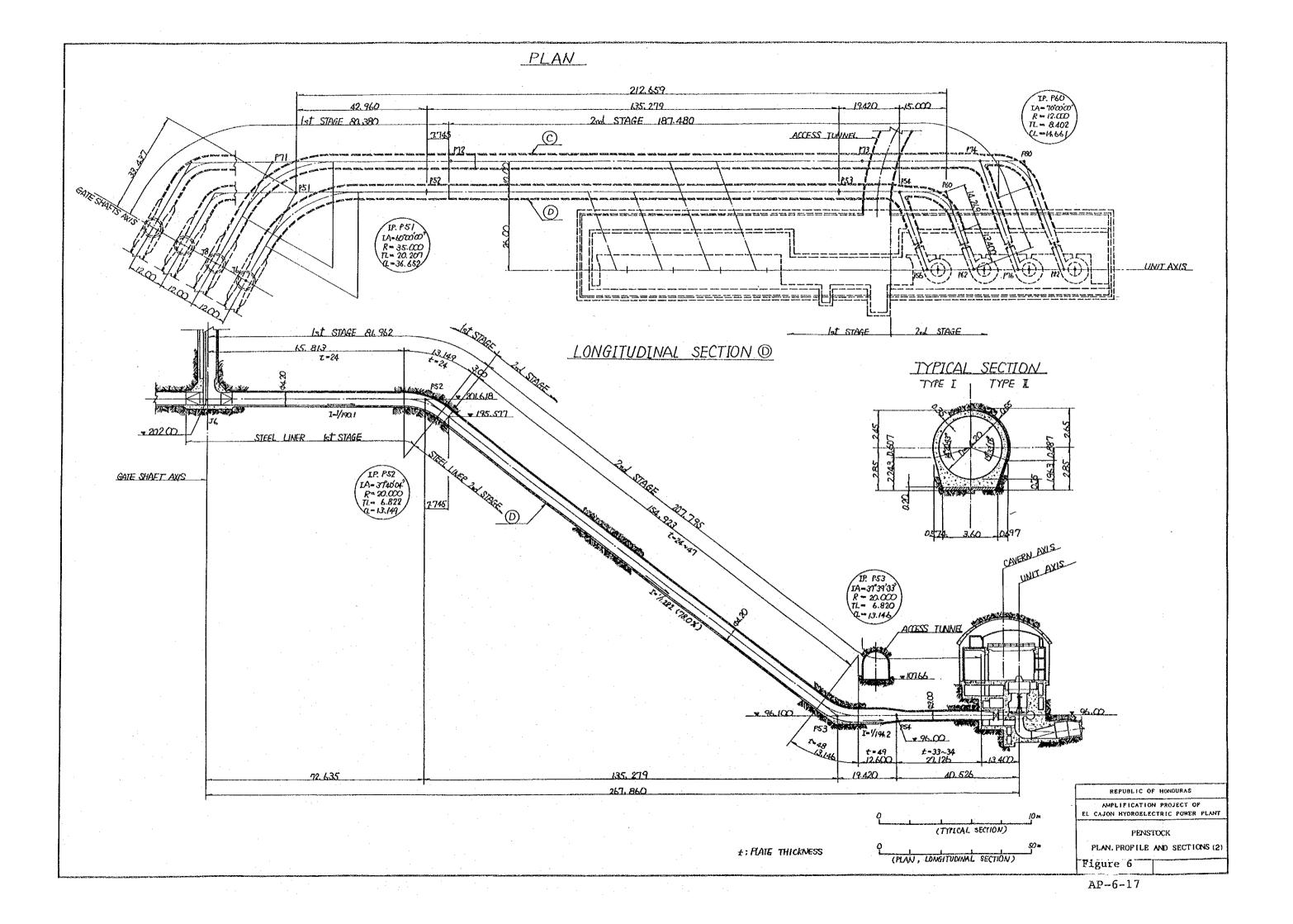
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PLAN AT EL107.50

