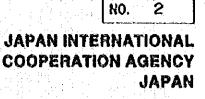
IRRIGATION AND POWER DEPARTMENT GOVERNMENT OF BALOCHISTAN



FEASIBILITY STUDY ON THE IRRIGATION WATER RESOURCES DEVELOPMENT WITH DELAY ACTION DAMS PROJECT IN BALOCHISTAN IN THE ISLAMIC REPUBLIC OF PAKISTAN

DRAWINGS

JUNE 1997 JIMA LIBRARY J 1138970 (7)

NIPPON GIKEN INC. SANYU CONSULTANTS INC.



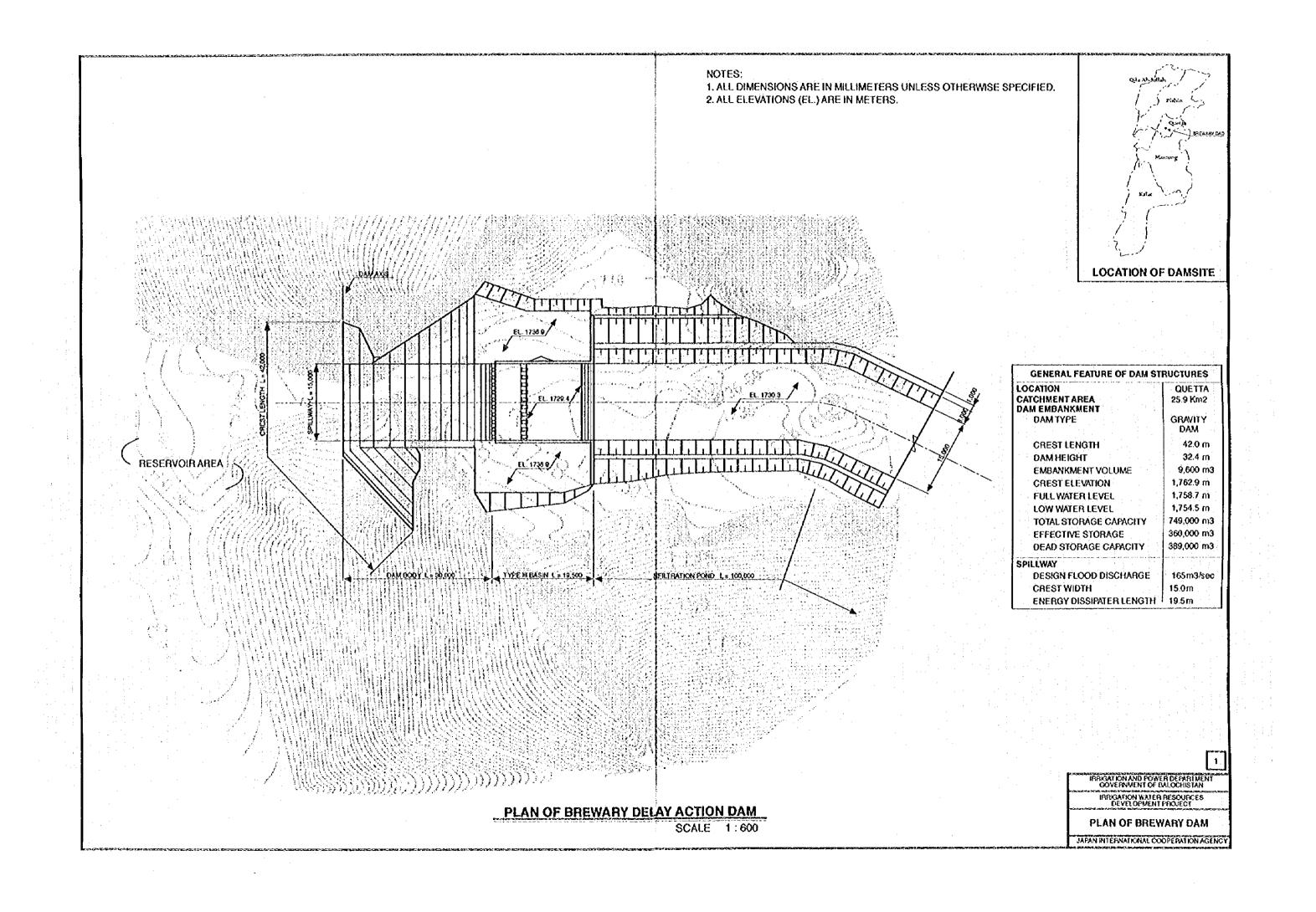
D.No	TITLE
1 BREWARY DAM	PLAN OF BREWARY DAM
2	LONGITUDINAL SECTION OF DAM
3 DARA DAM	PLAN OF DARA DAM
4	STANDARD/LONGITUDINAL SECTION OF DAM
5	PLAN OF INFILTRATION POND
6	PLAN OF DETENTION BUNDS
7 MURGI KOTAL DAM	PLAN OF MURGI KOTAL DAM
8 (UPSTREAM)	STANDARD/LONGITUDINAL SECTION OF DAM
9 MURGI KOTAL DAM	PLAN OF MURGI KOTAL DAM
10 (DOWNSTREAM)	STANDARD/LONGITUDINAL SECTION OF DAM
11	PLAN OF SPILLWAY/INFILTRATION POND
12	PLAN OF DETENTION BUNDS
13 KACH DAM	PLAN OF KACH DAM
14 (RISING OF CREST)	STANDARD/LONGITUDINAL SECTION OF DAM
15	PLAN OF SPILLWAY/INFILTRATION POND
16	PLAN OF DETENTION BUNDS
17	ALTERNATIVE PLAN OF KACH DAM
18 JIGDA DAM	PLAN OF JIGDA DAM
19	STANDARD/LONGITUDINAL SECTION OF DAM
20	PLAN OF SPILLWAY/INFILTRATION POND
21	PLAN OF DETENTION BUNDS

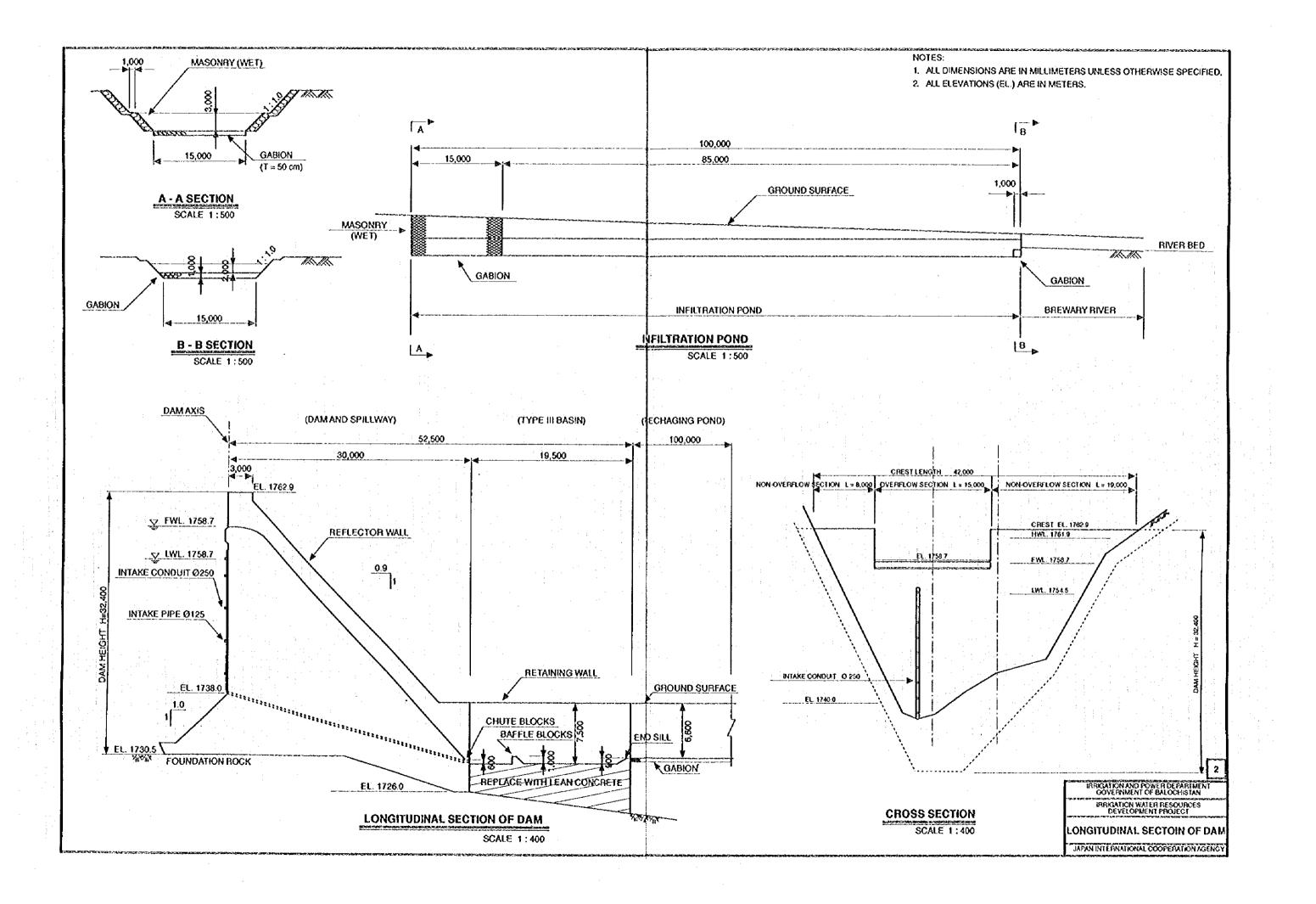
	D.No		
	22	SANZALI DAM	PLAN OF SANZA
	23		STANDARD/LON
	24	· · · · · · · · · · · · · · · · · · ·	PLAN OF SPILLV
	25		PLAN OF DETEN
	26	GHAZLONA DAM	PLAN OF GHAZL
	27		STANDARD/LON
	28		PLAN OF SPILLV
	29		PLAN OF DETEN
-	30	SAKHOL DAM	PLAN OF SAKHO
· 🛏	31		STANDARD/LON
	32		PLAN OF SPILLV
	33	MANGI DAM	PLAN OF MANG
	34		STANDARD/LON
	35		PLAN OF SPILLV
-	36	KAD KOCHA II DAM	PLAN OF KAD K
	37		STANDARD/LON
	38		PLAN OF SPILLV
ľ	39	GHUTAI SHELA DAM	PLAN OF GHAT/
	40	WALI DAD DAM	PLAN OF WALL
	41	SAMAKI DAM	PLAN OF SAMA
Ī	42	ISKALKOO DAM	PLAN OF ISKALI
ľ	43	DETAILS OF LINK CANAL	· · · · · · · · · · · · · · · · · · ·

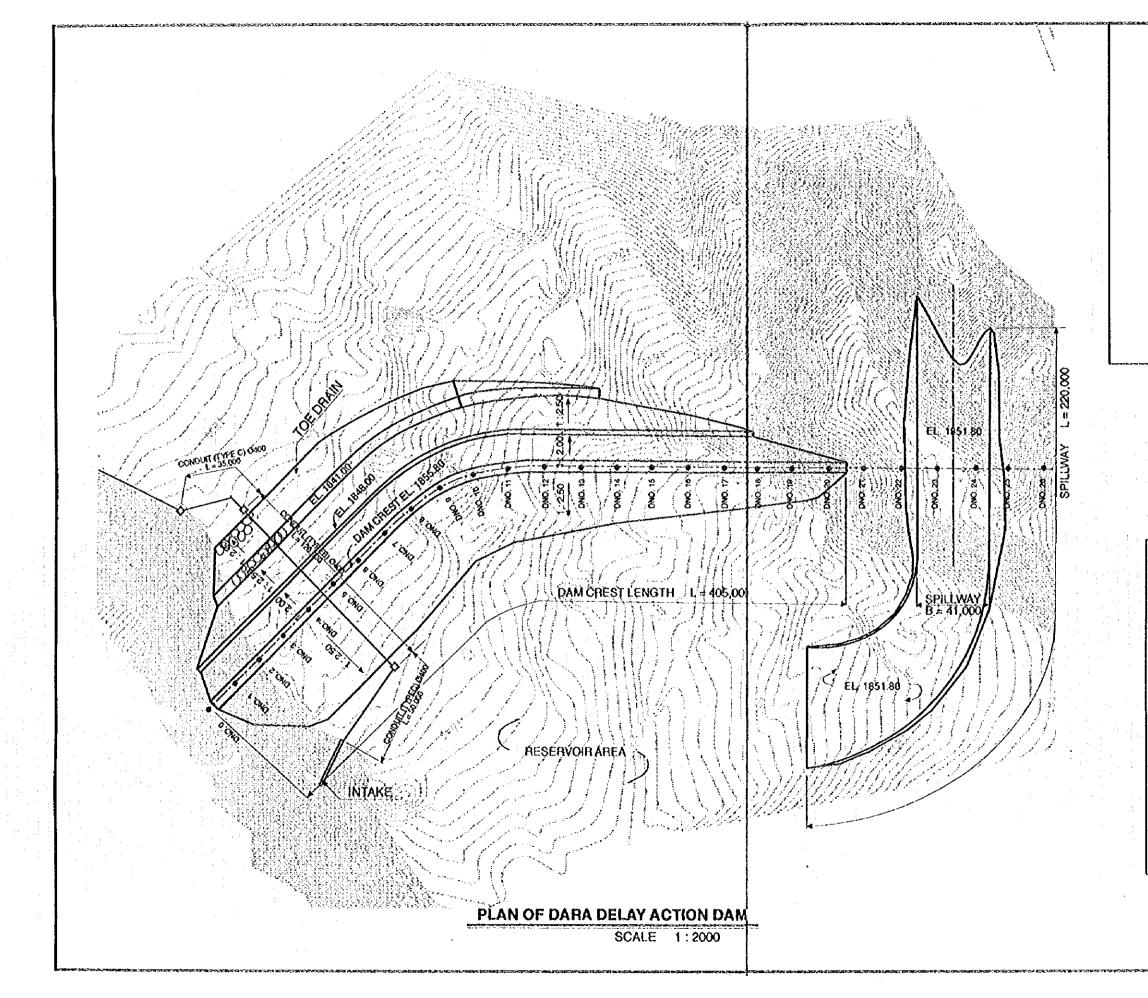


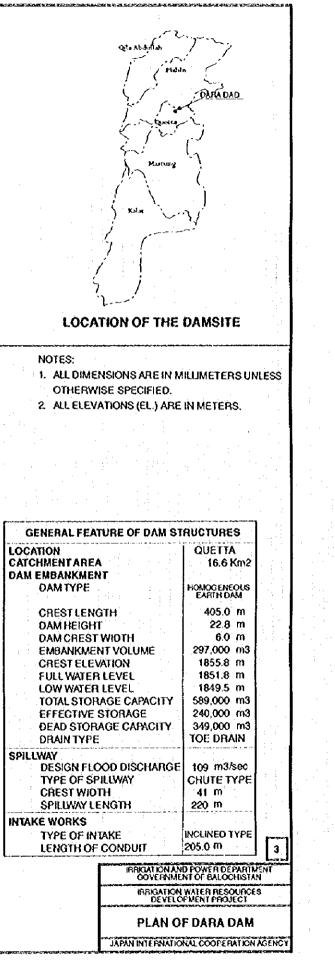
LIST OF DRAWINGS

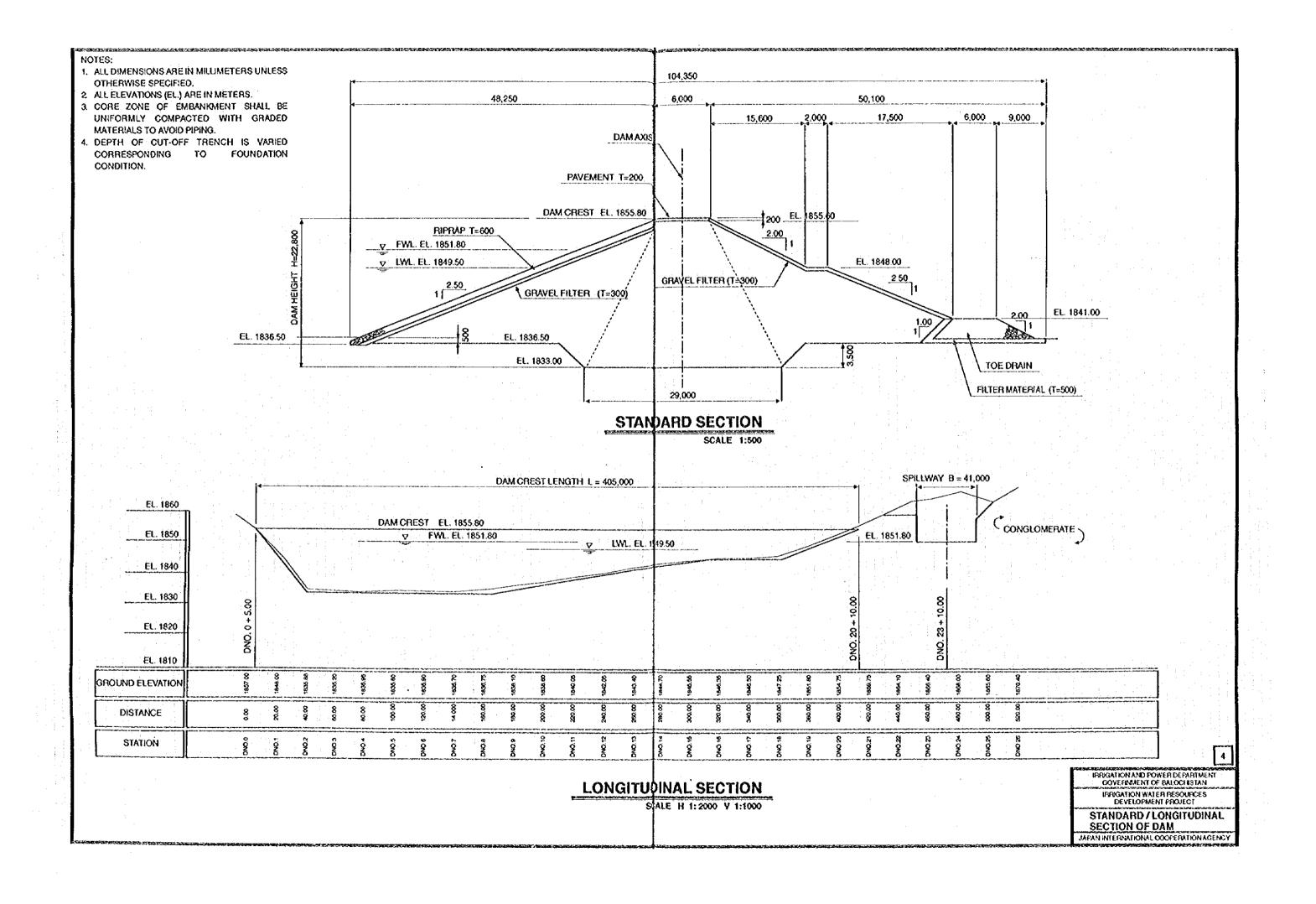
TITLE	
ALI DAM	
INGITUDINAL SECTION OF DAM	
WAY/INFILTRATION POND	
NTION BUNDS	
LONA DAM	
IGITUDINAL SECTION OF DAM	
WAY/INFILTRATION POND	
NTION BUNDS	
OL DAM	
NGITUDINAL SECTION OF DAM	
WAY/INFILTRATION POND	
II DAM	
NGITUDINAL SECTION OF DAM	
WAY/INFILTRATION POND	
NGITUDINAL SECTION OF DAM	
WAY/INFILTRATION POND	di aya Artista Artista
AI SHELA DAM	
DAD DAM	
KIDAM	
KOO DAM	
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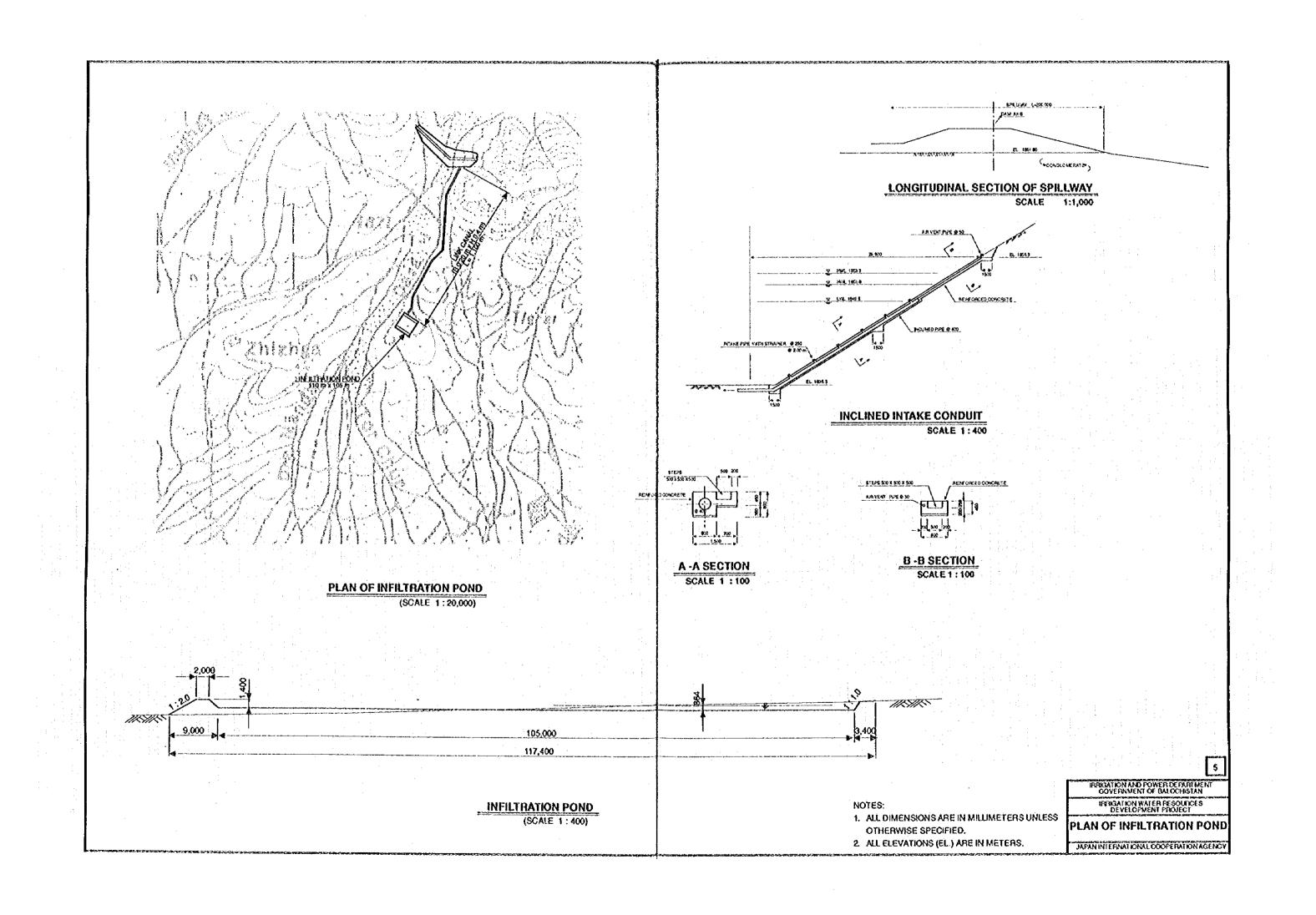


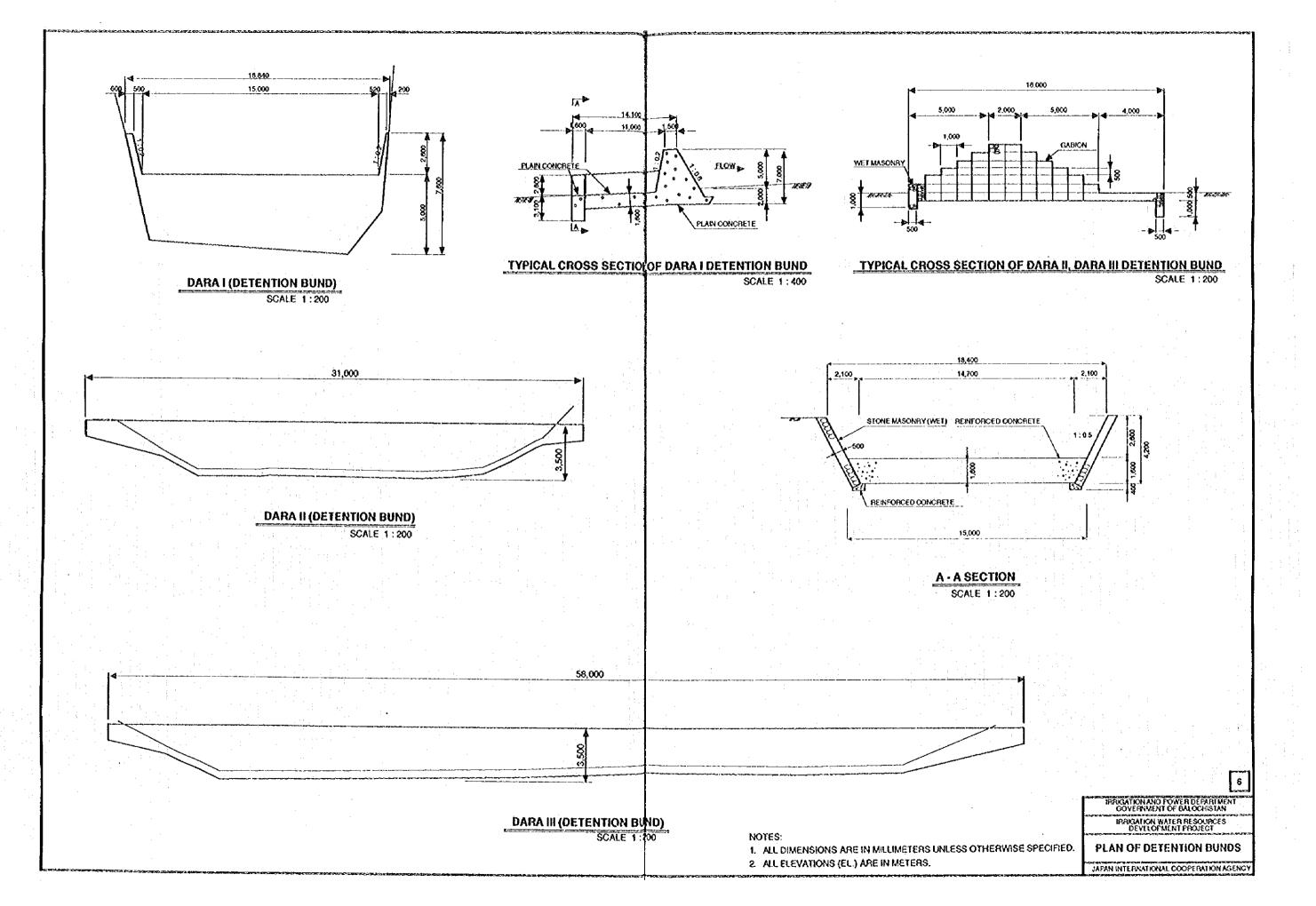


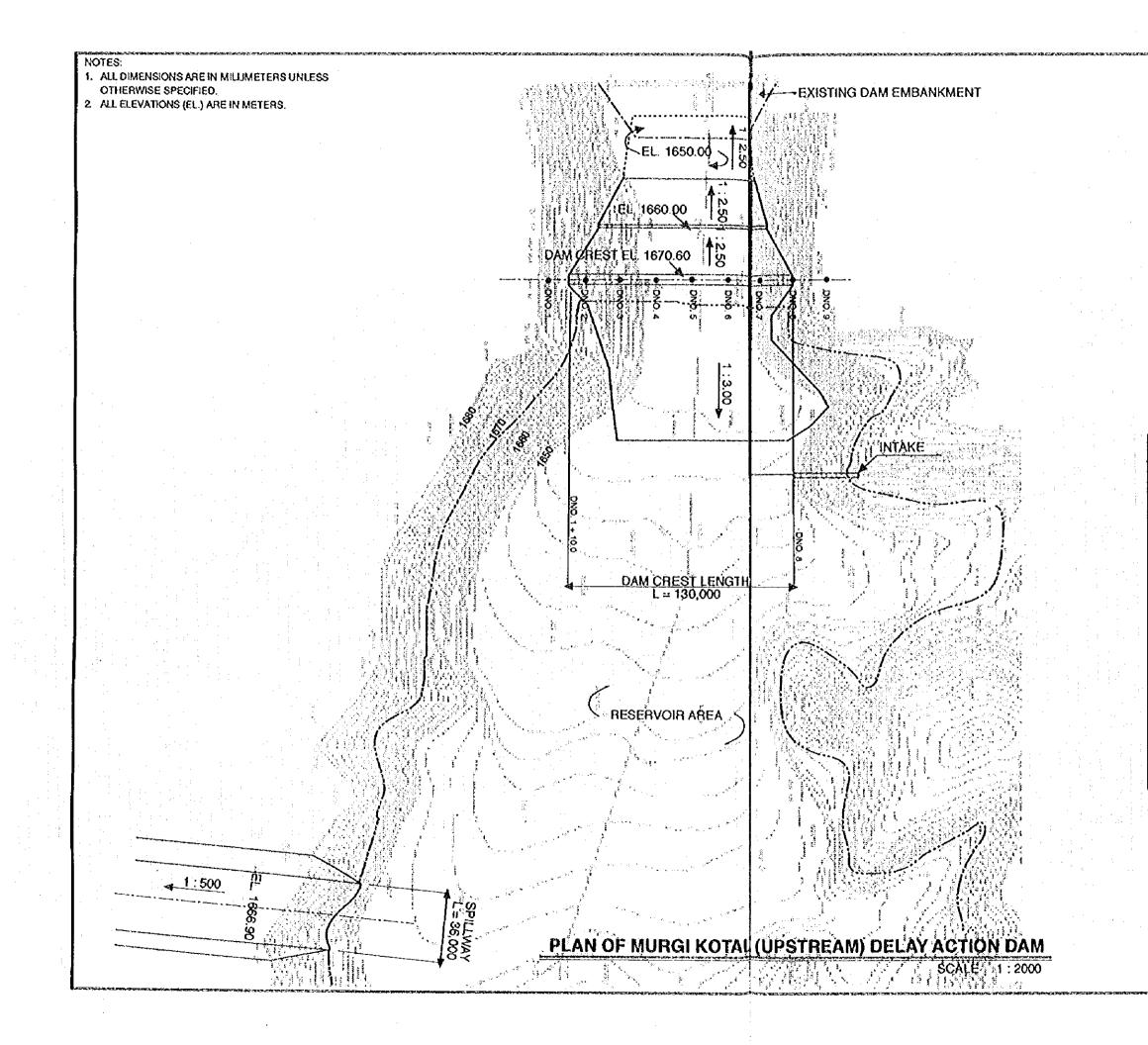




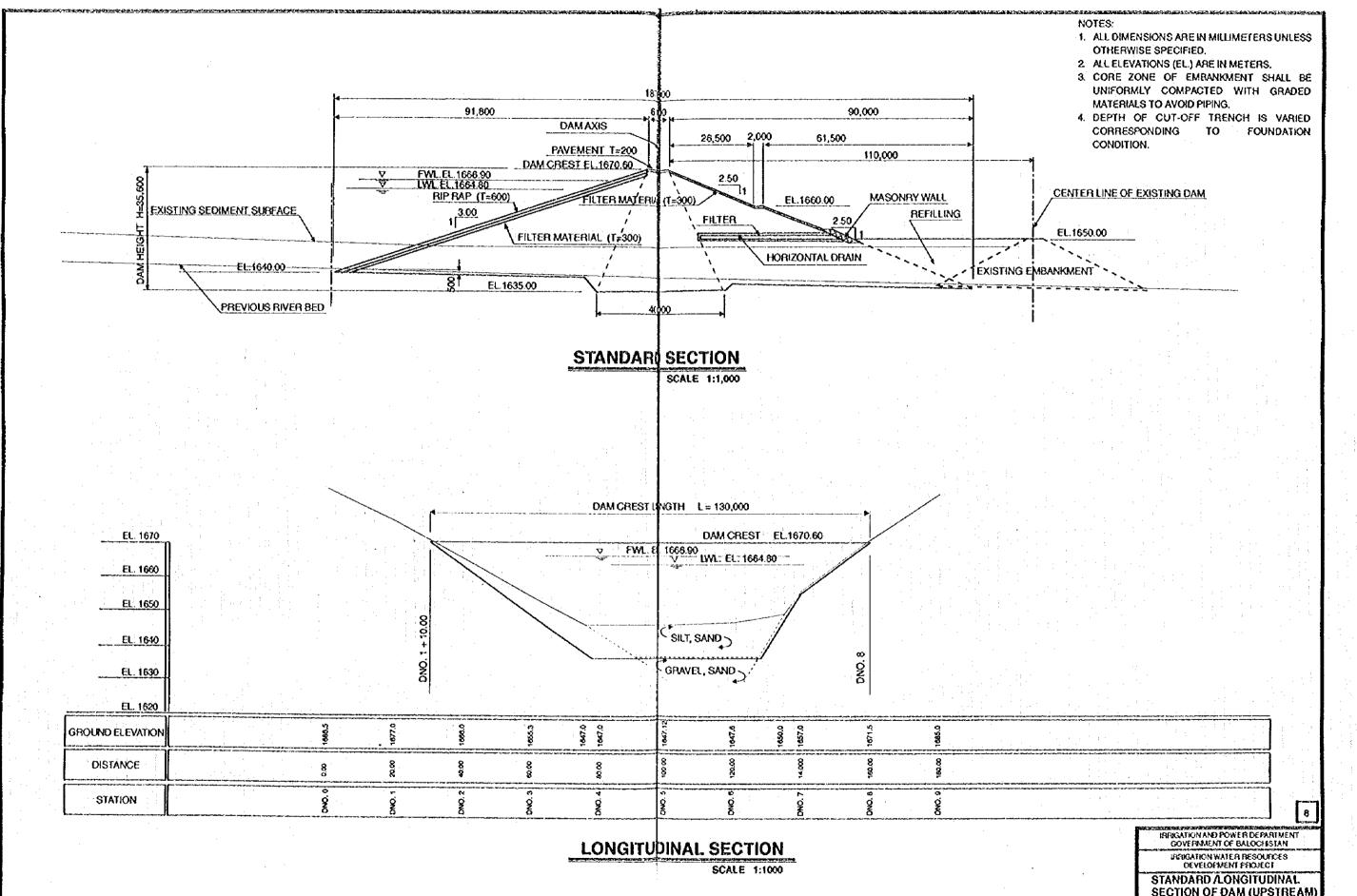




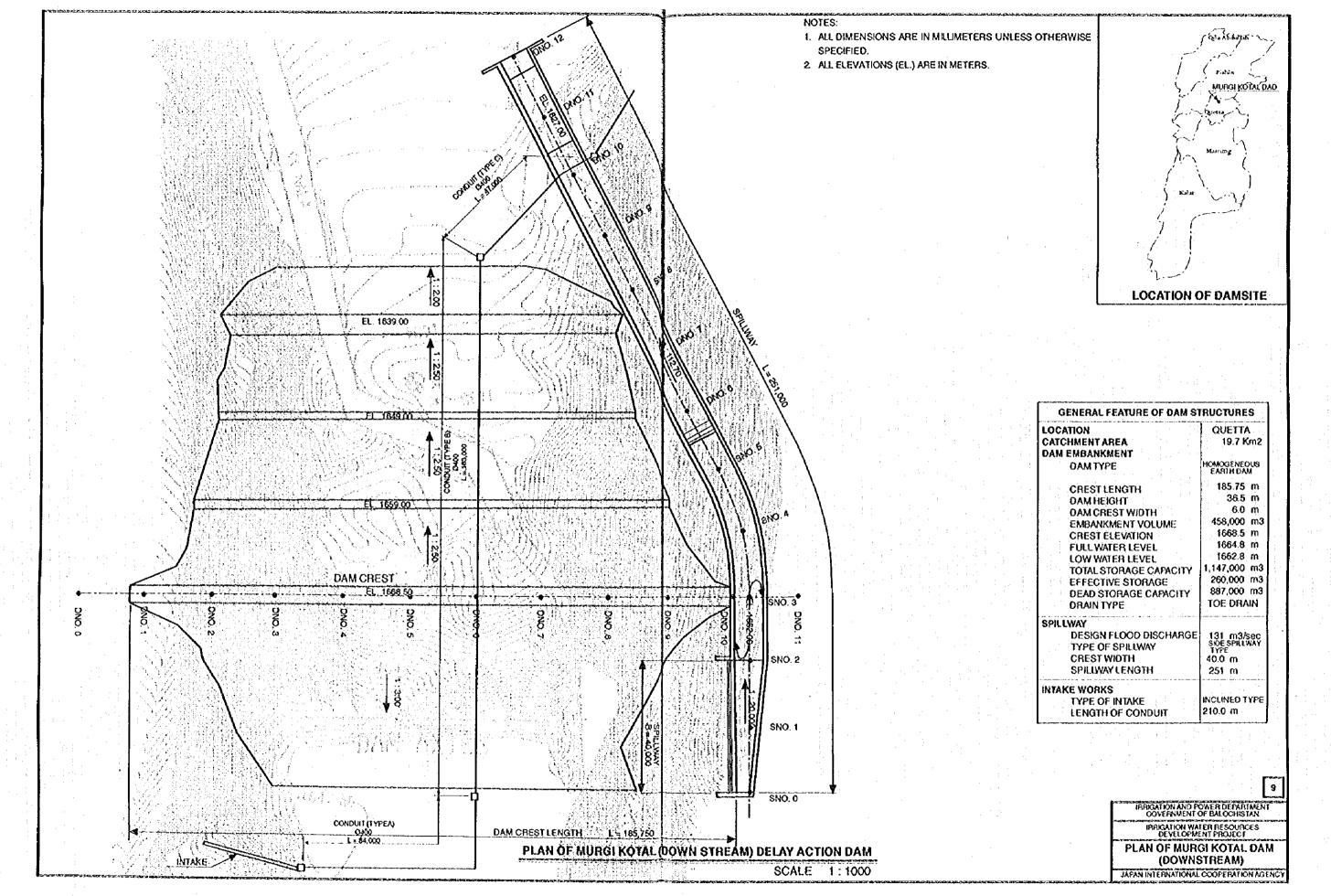


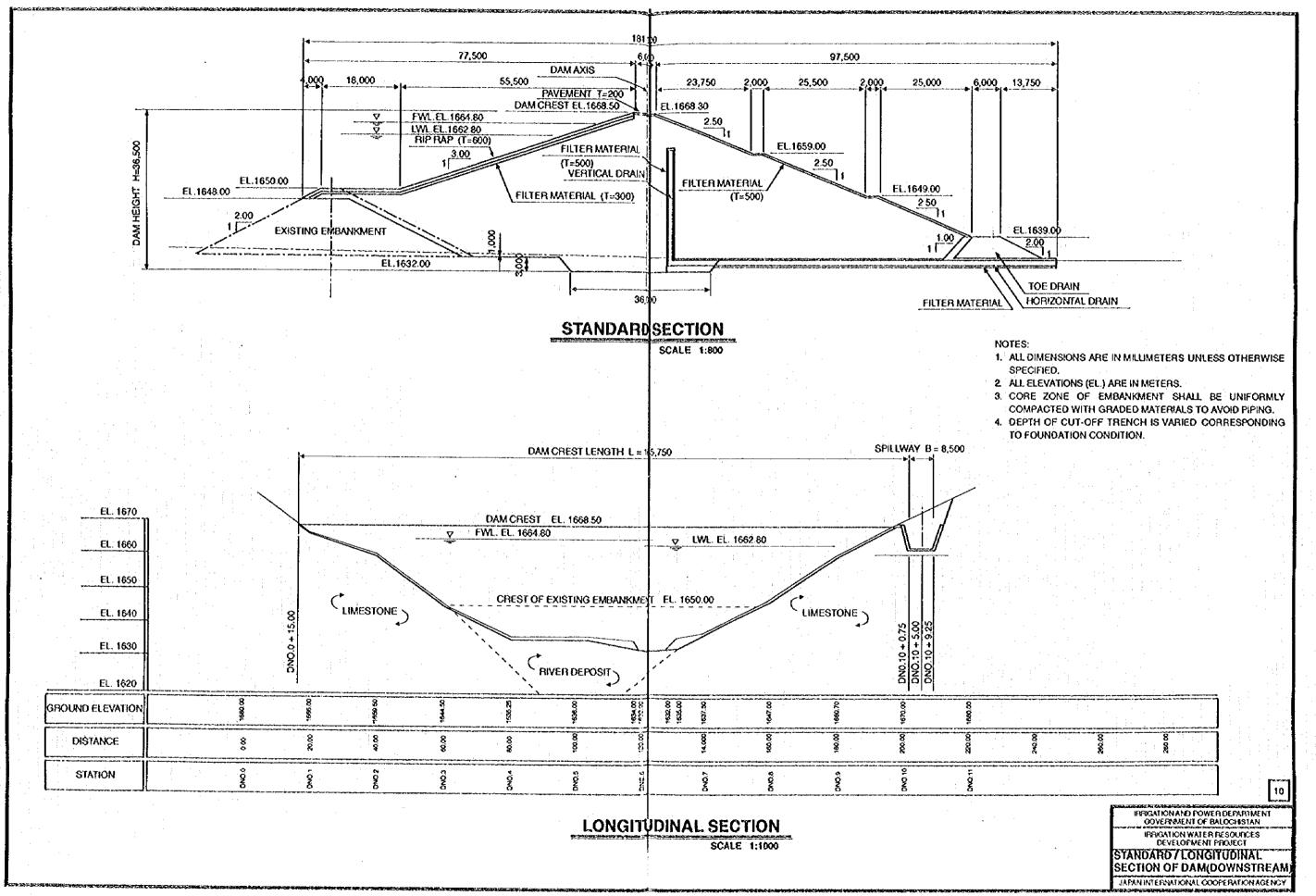


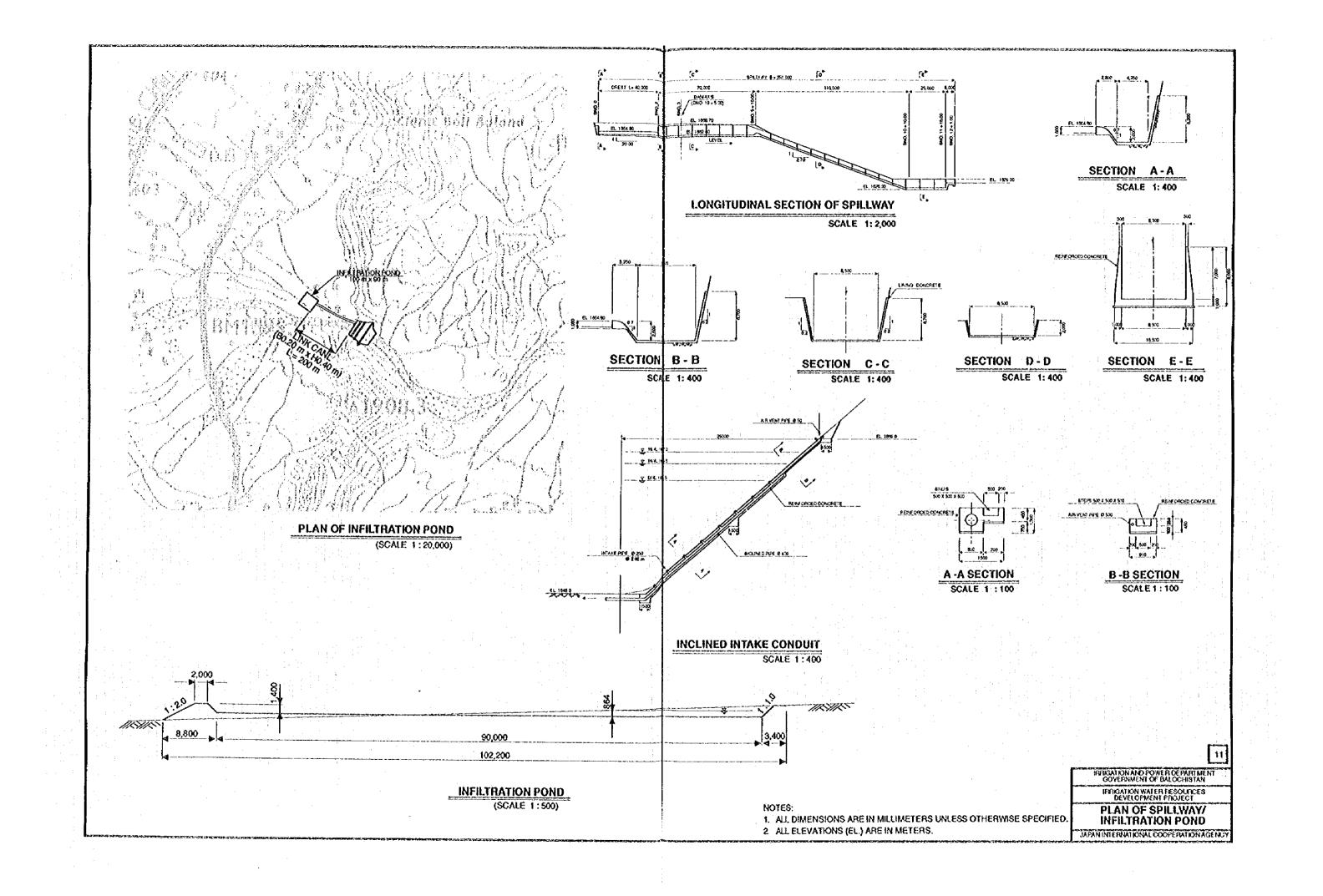
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	Kalar V	
a Stranger		
5		
2		- 1
LOC	ATION OF DAMSITE	
L		
GENERAL FEATURE OF DAL	ASTRUCTURES	
LOCATION	QUETTA	
CATCRMENT AREA DAM EMBANKMENT		
DAMTYPE	EARTH DAM	
CREST LENGTH DAM HEIGHT	35.6 m	
DAM CREST WIDTH EMBANKMENT VOLUME	278,000 m3	
CREST ELEVATION FULL WATER LEVEL	1,666.9 m	
LOW WATER LEVEL TOTAL STORAGE CAPACI	TY 1,147,000 m3	
EFFECTIVE STORAGE DEAD STORAGE CAPACIT		
DRAIN TYPE	HORIZONTAL	
Filde Winder KOTAC DAD. Municity CATCHMENT AREA DAM CREST LENGTH DAM CREST WIDTH CREST LENGTH DAM CREST WIDTH CREST LENGTH DAM CREST WIDTH CREST WIDTH CREST LENGTH DAM CREST WIDTH CREST WIDTH CREST WIDTH CREST FELEVATION CREST WIDTH CREST WIDTH CREST FELEVATION CREST FELEVATION		
TYPE OF SPILLWAY	CHUTE TYPE	
	Q.J. 11	
	INCLINED TYPE	
	200.0 m	
	[]	ה ו ר
IRAKATIO GOVER	NAND POWER DEPARTMENT WIENT OF BALOCHISTAN	rani Arte:
IRAIGA	TION WATER RESOURCES VELOPMENT PROJECT	
		↓ .
Mark South State	INTIONAL COOPERATION AGEN	ICY

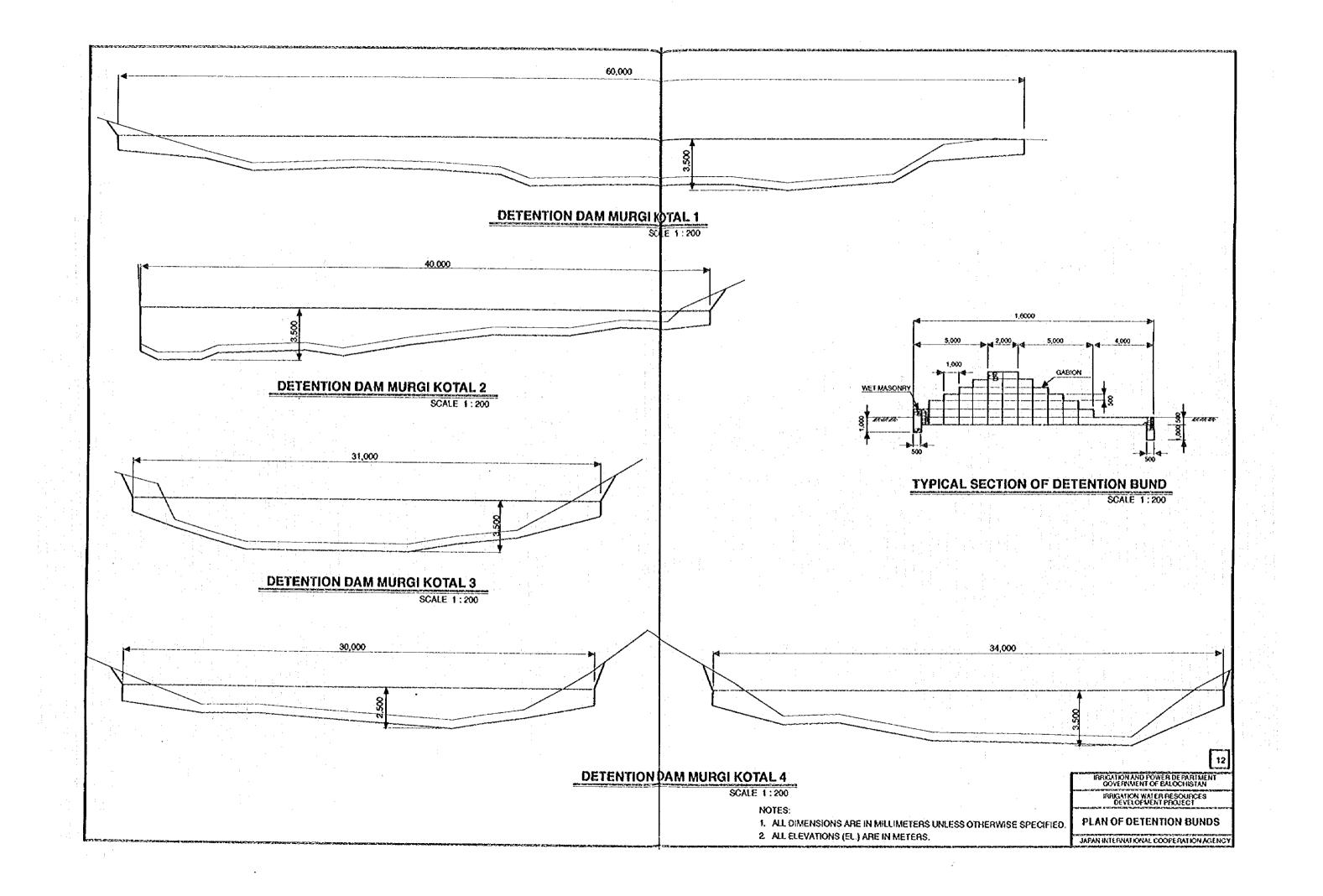


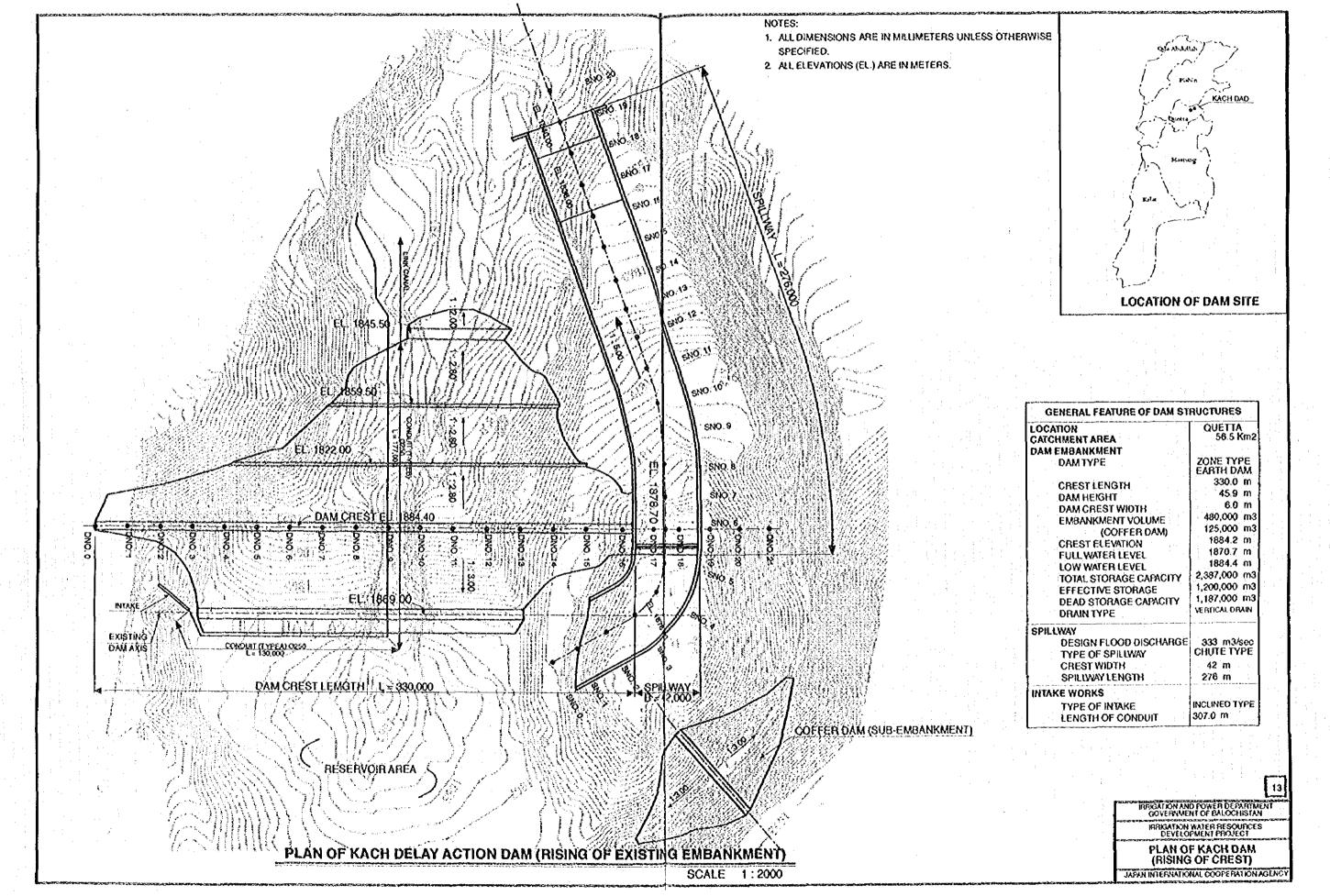
SECTION OF DAM (UPSTREAM) JAPAN INTERNATIONAL COOPERATION AGENCY

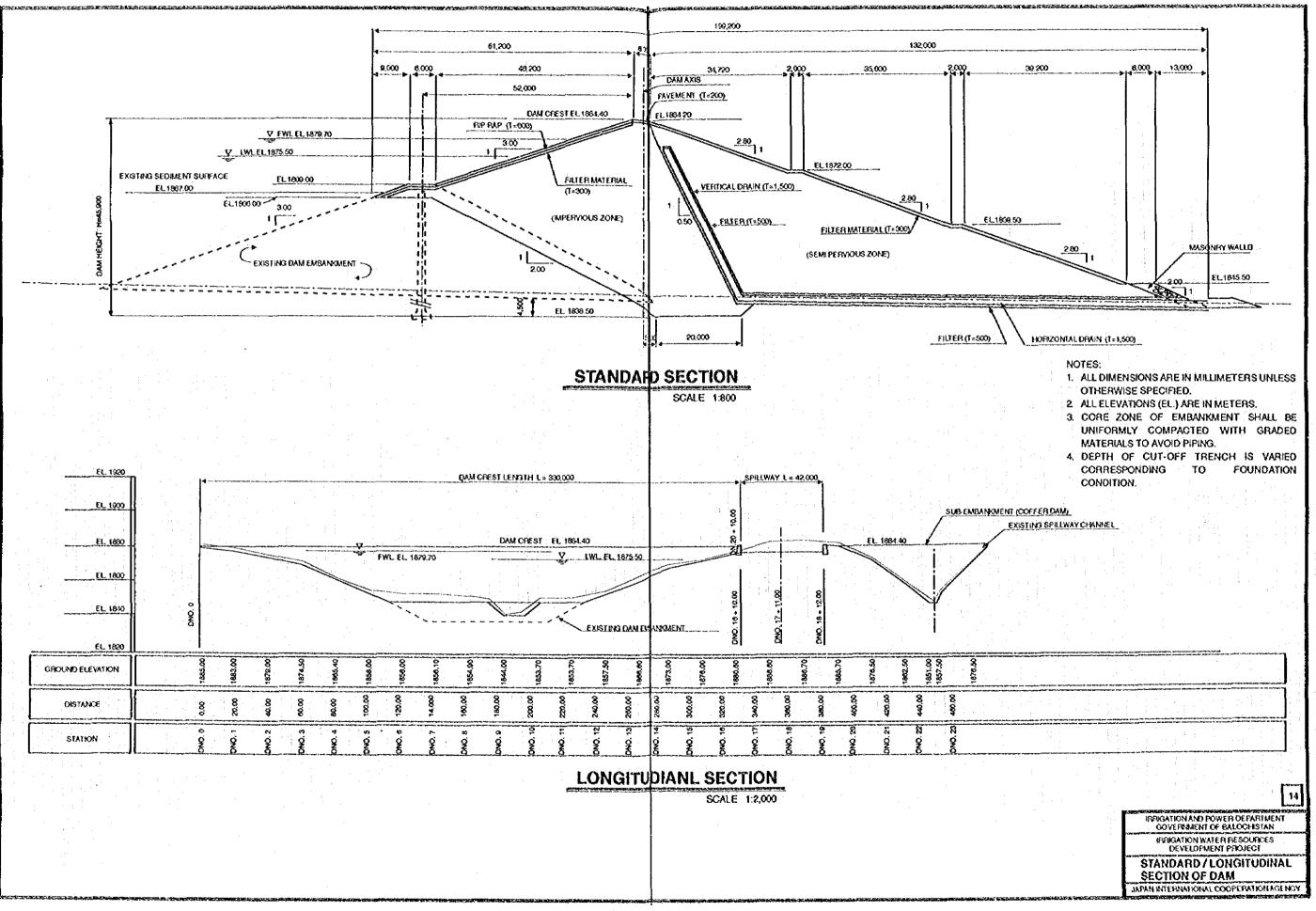


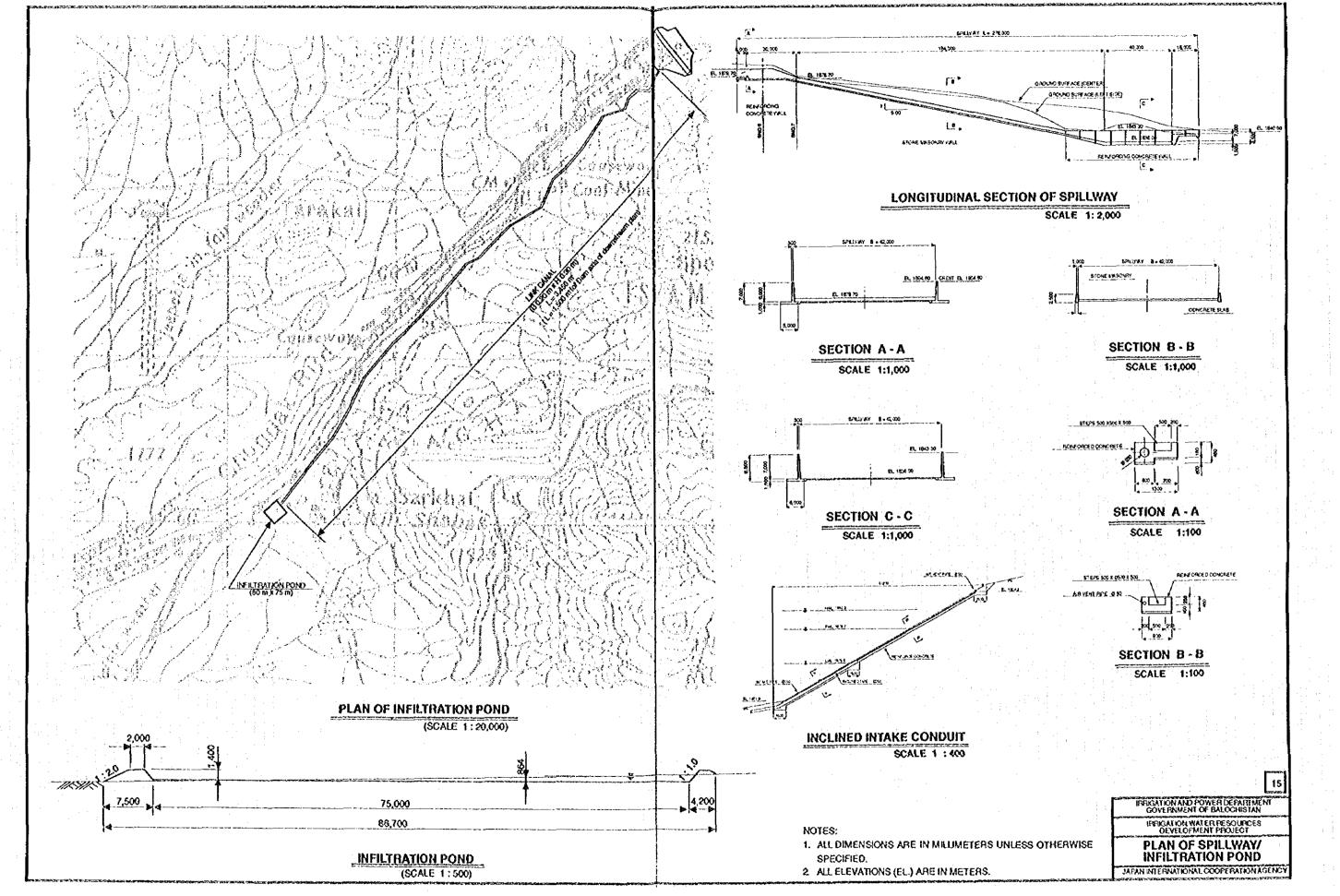




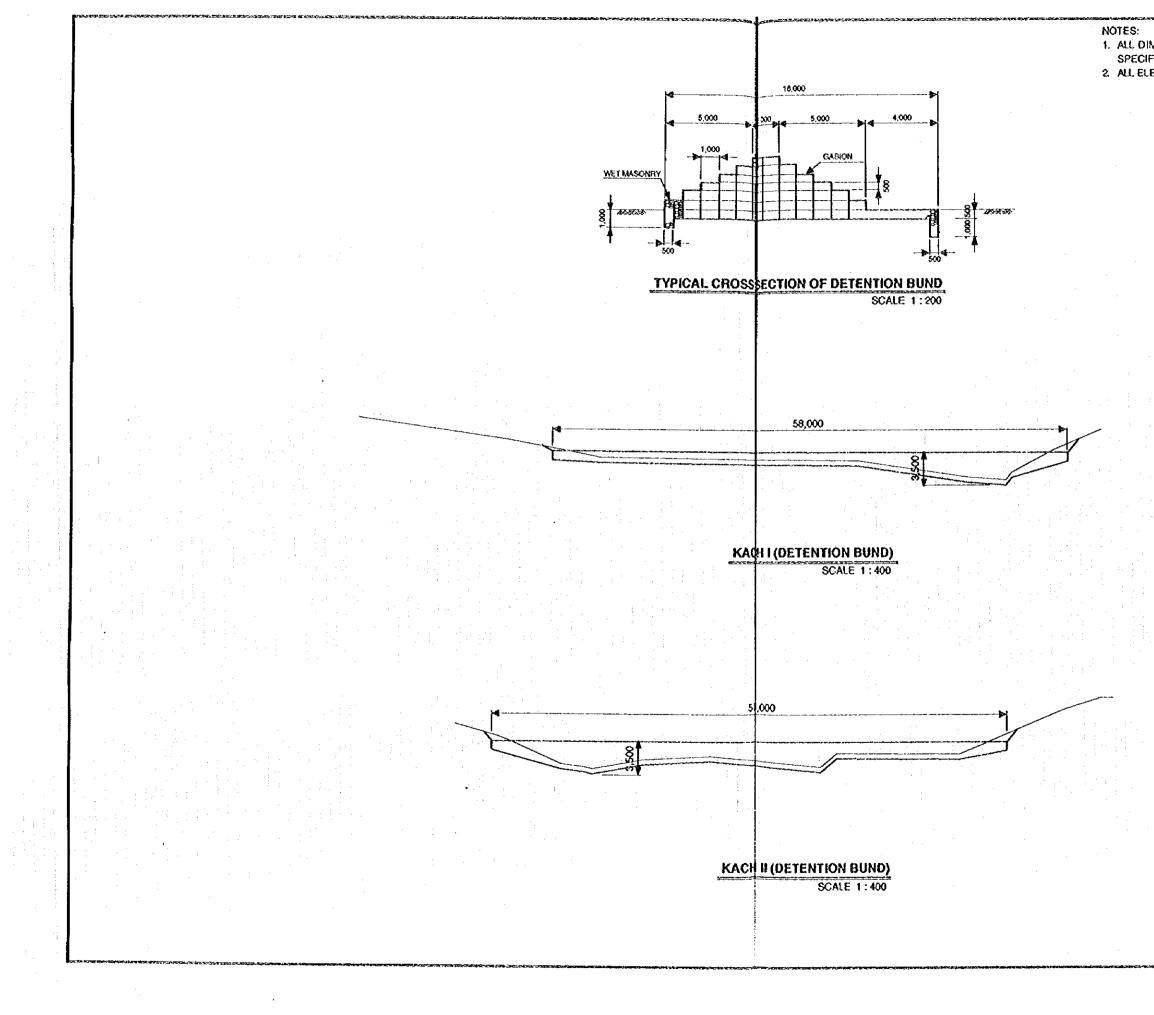




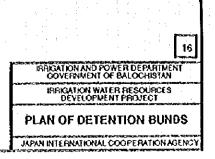


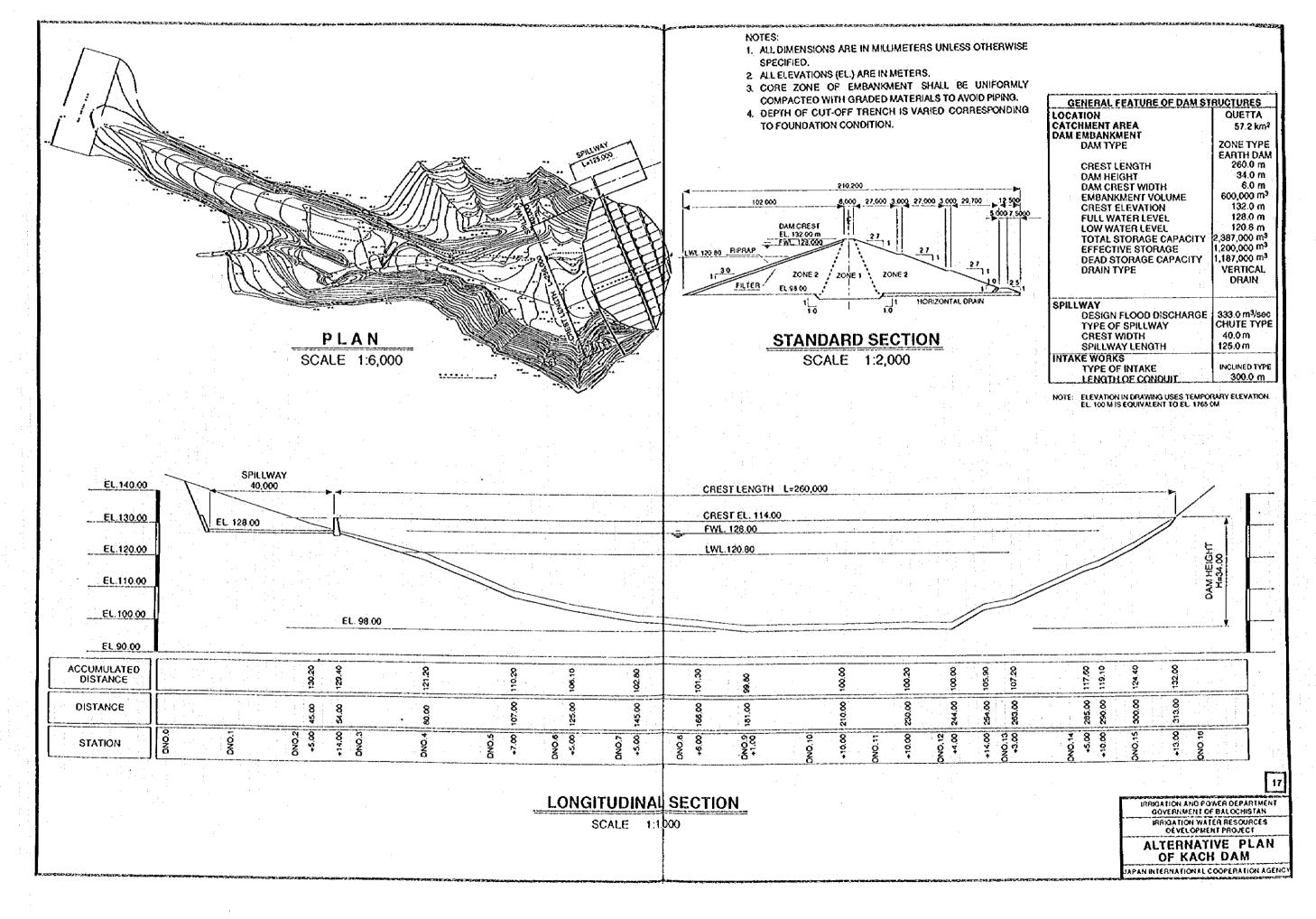


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NOTES: 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED. 2. ALL ELEVATIONS (EL.) ARE IN METERS.

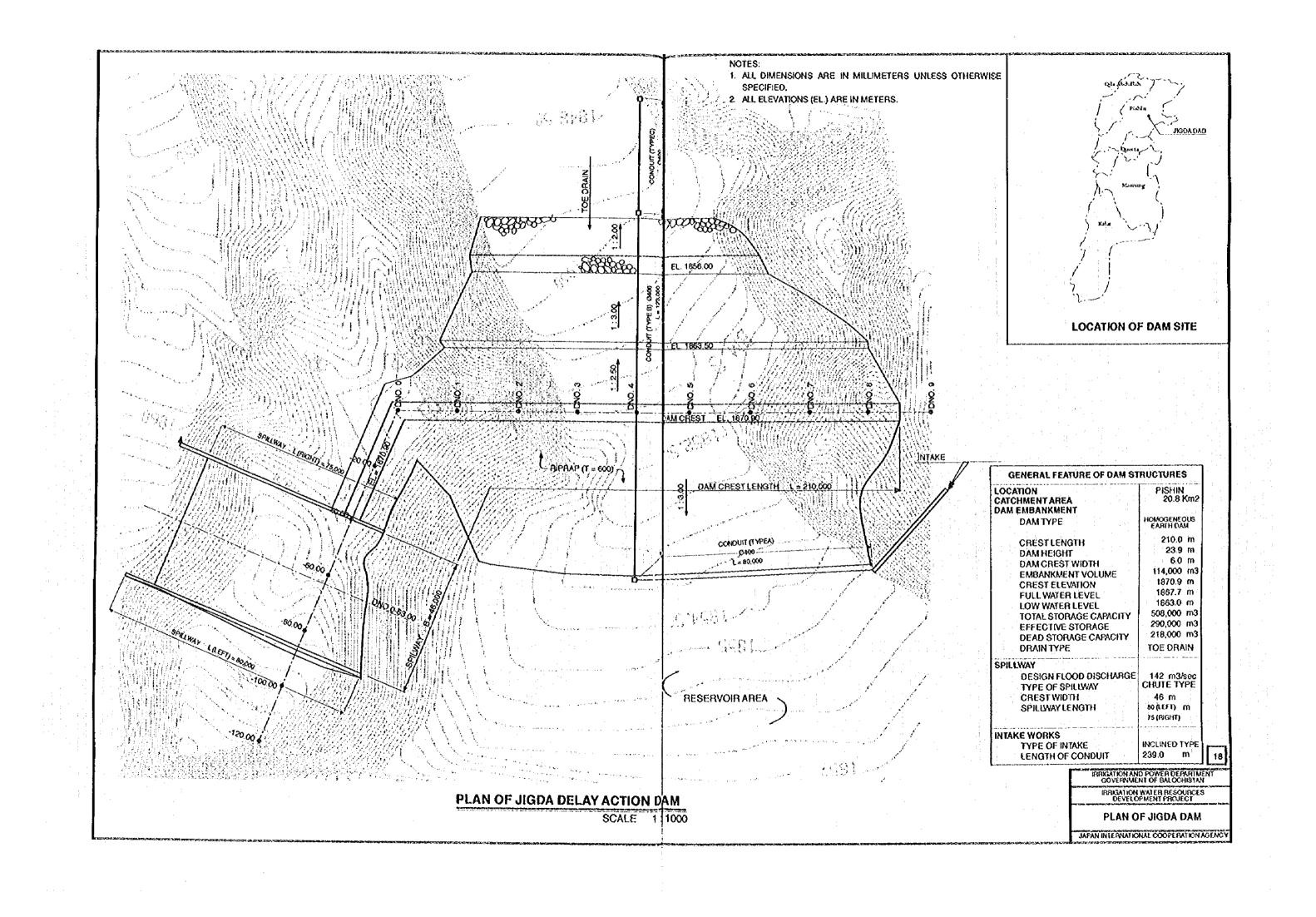


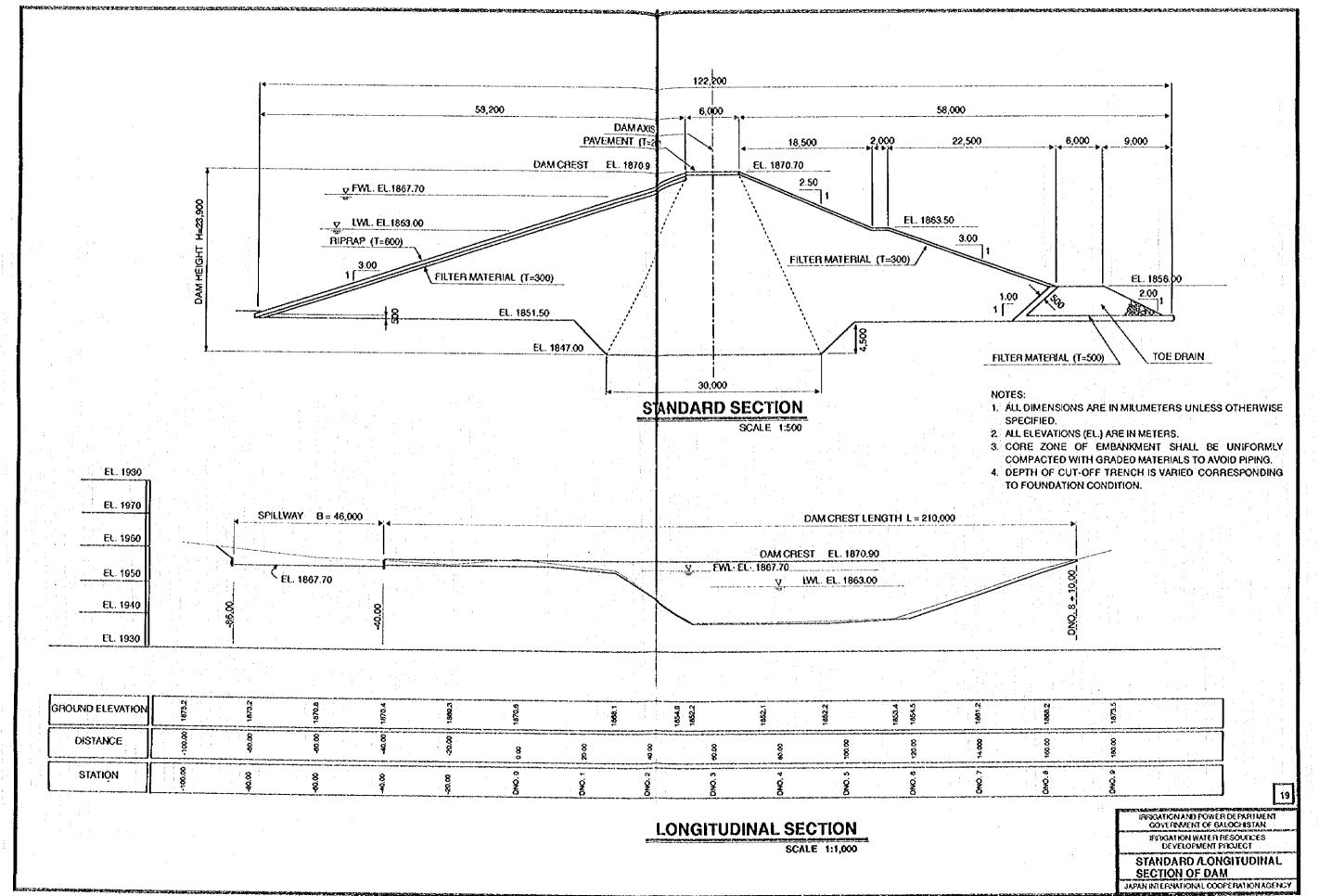


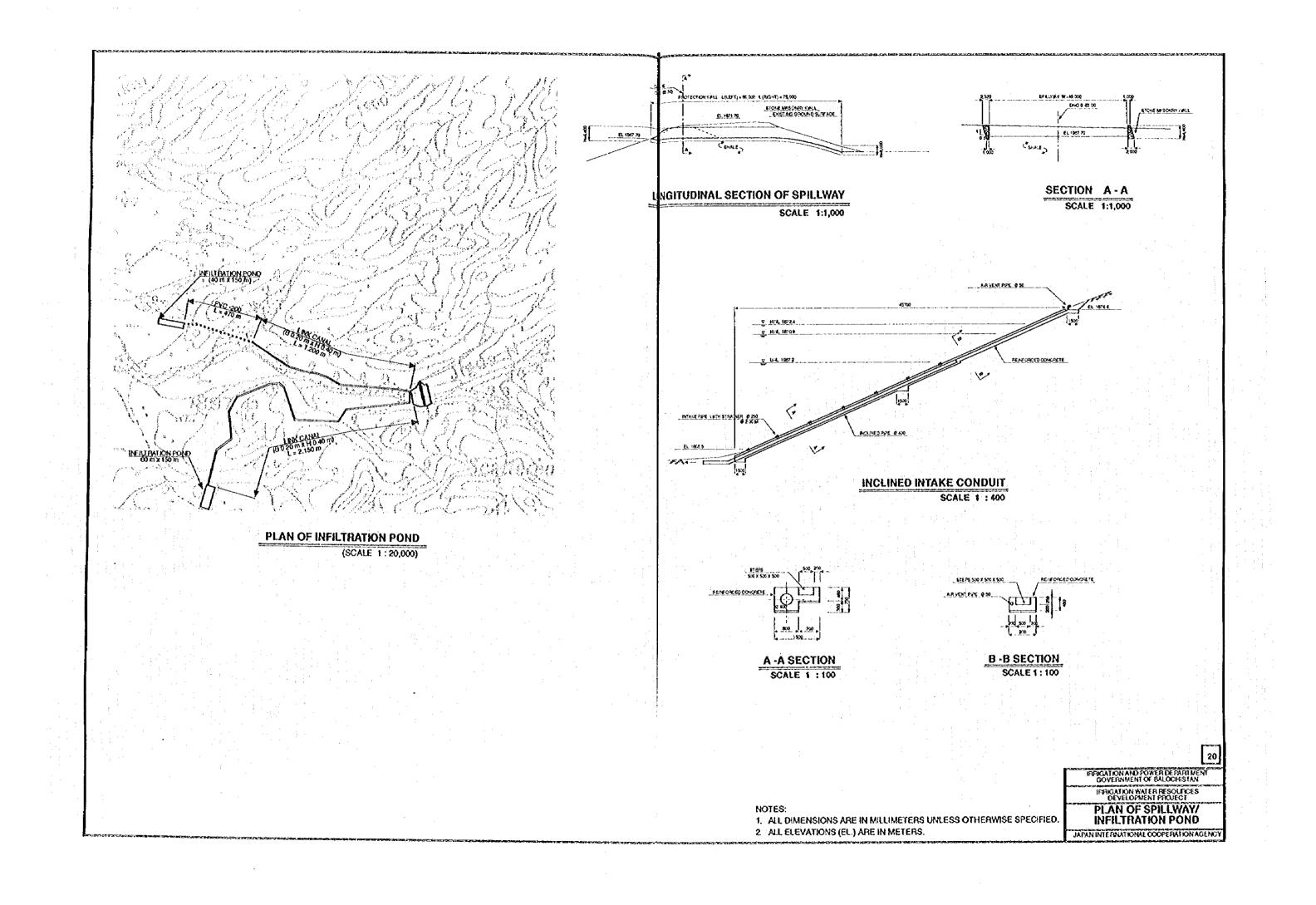
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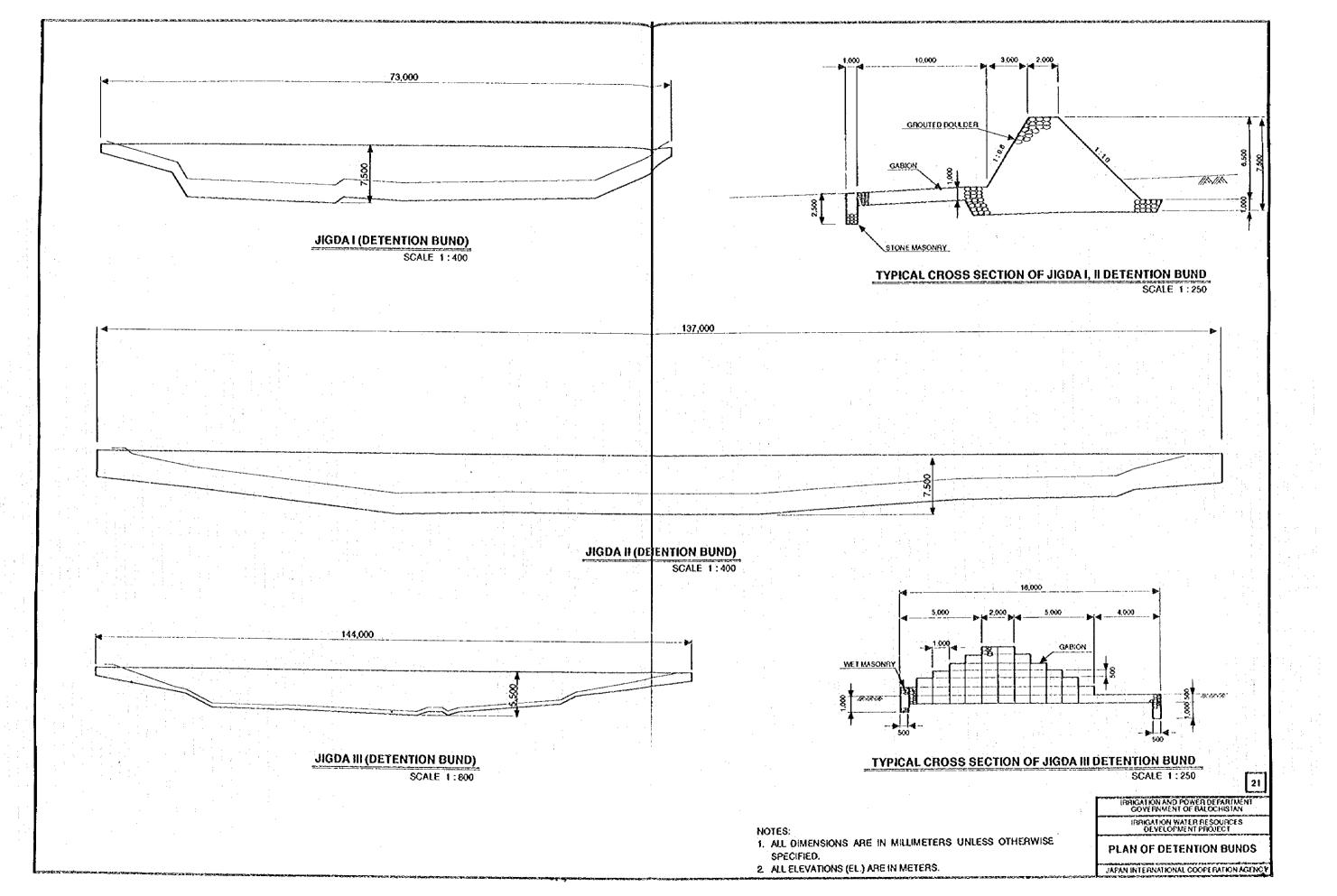
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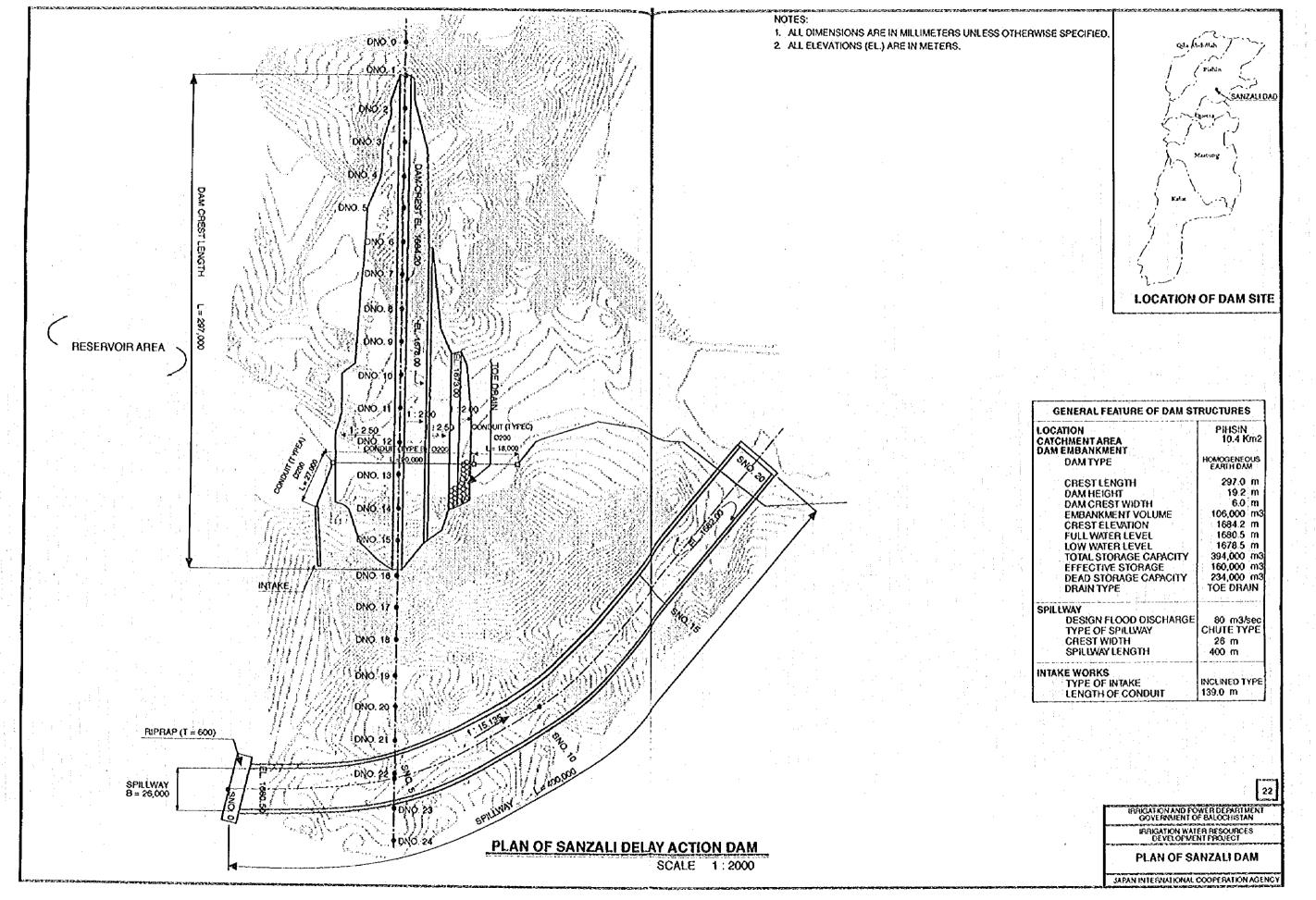
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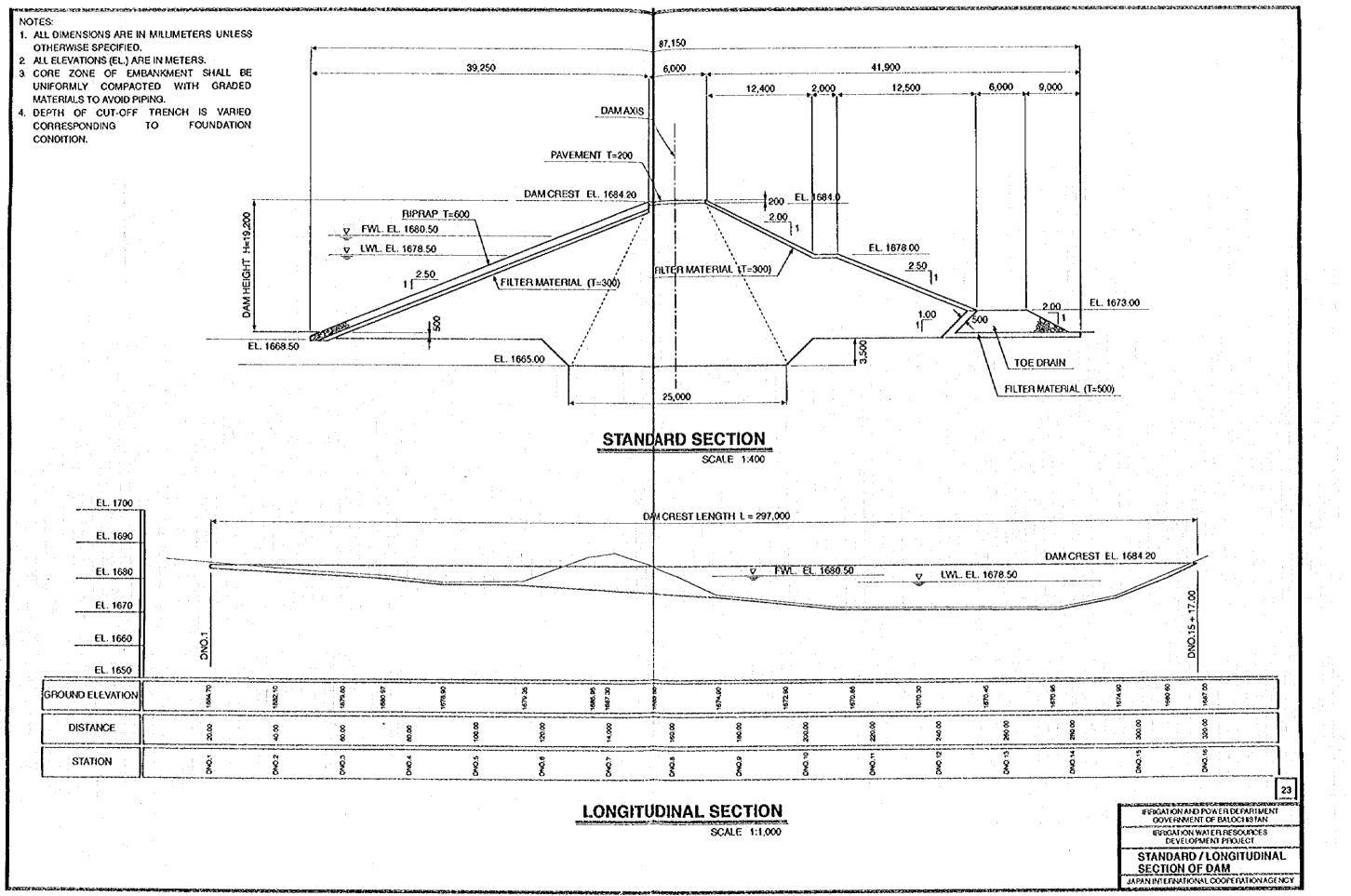


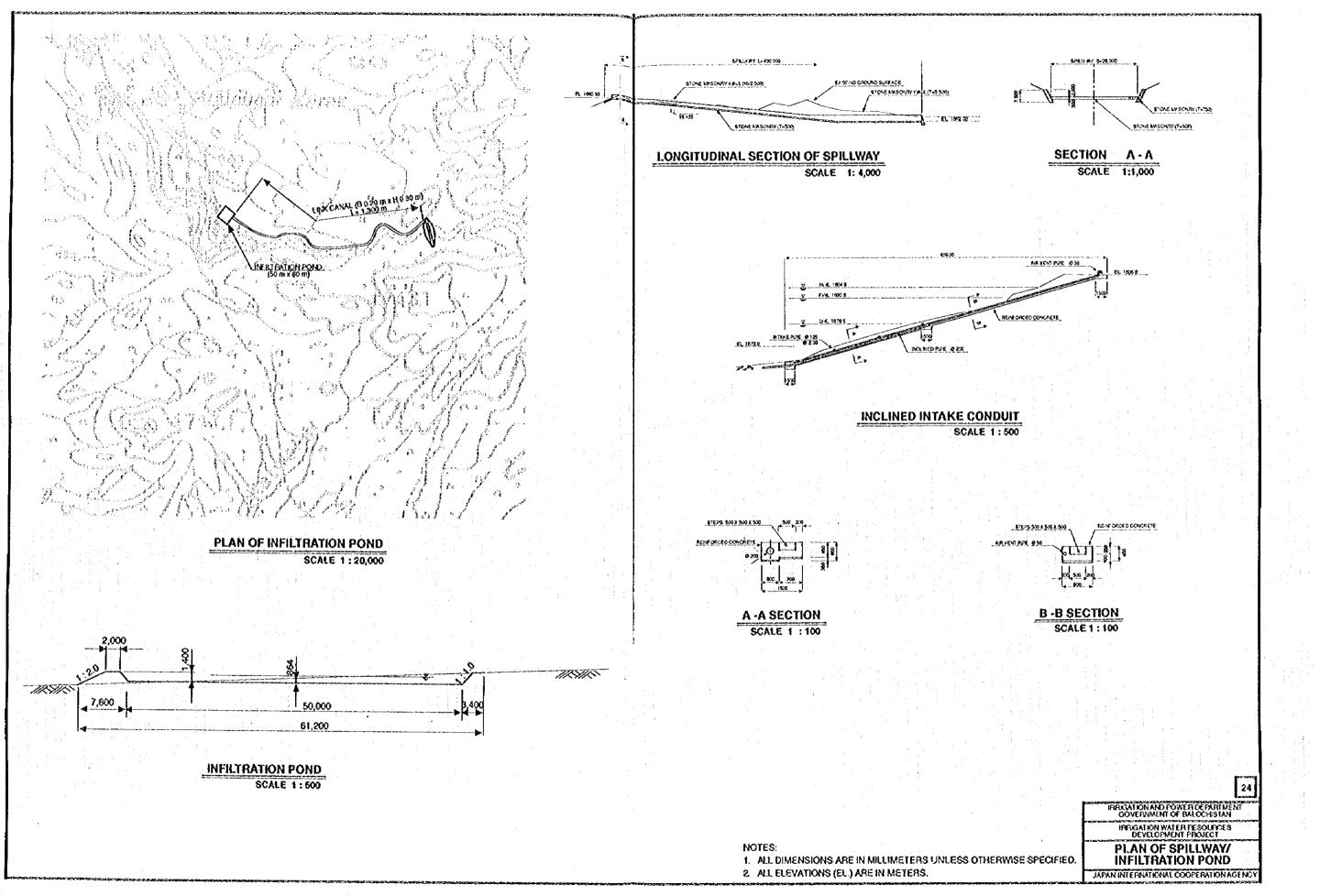




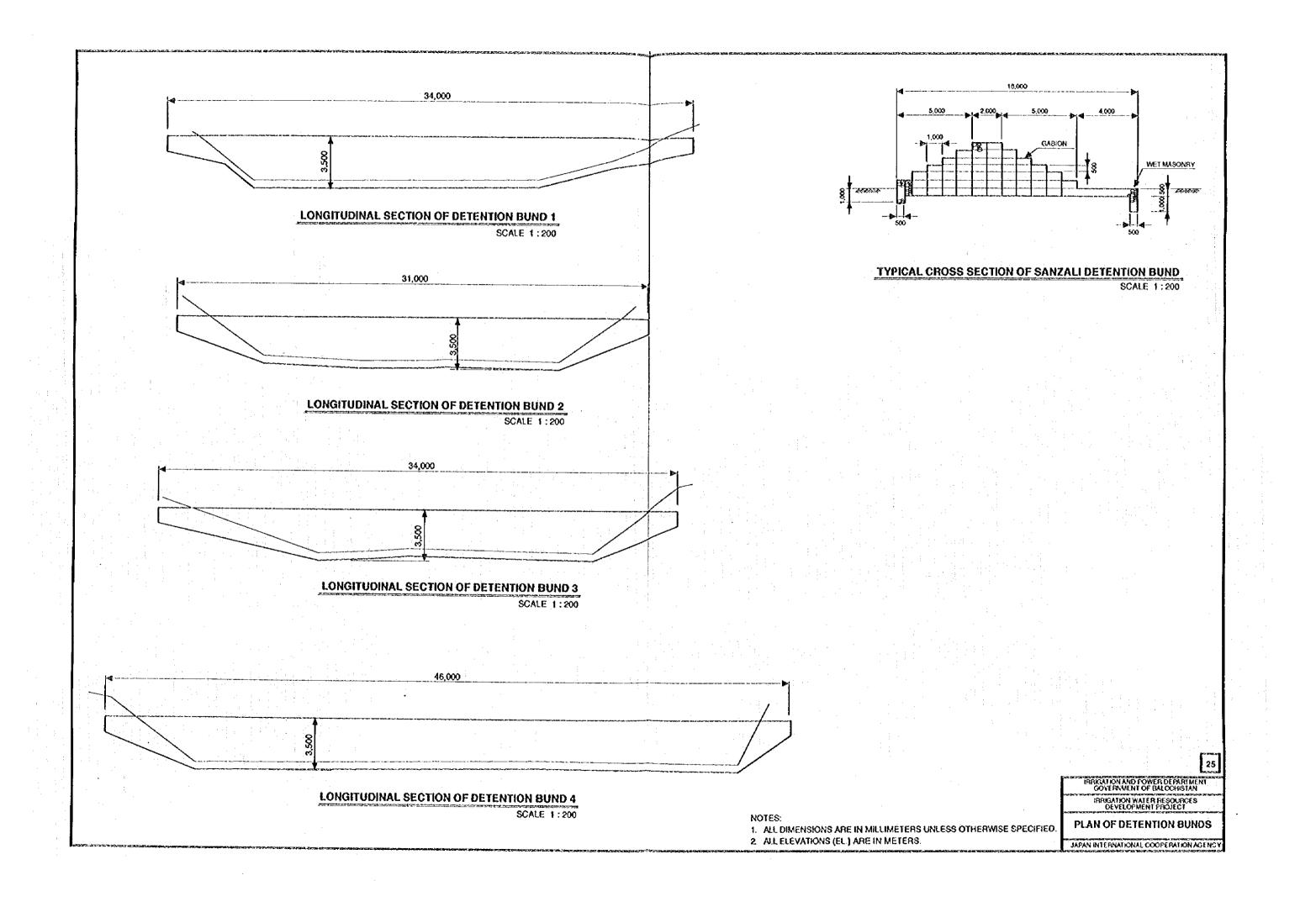


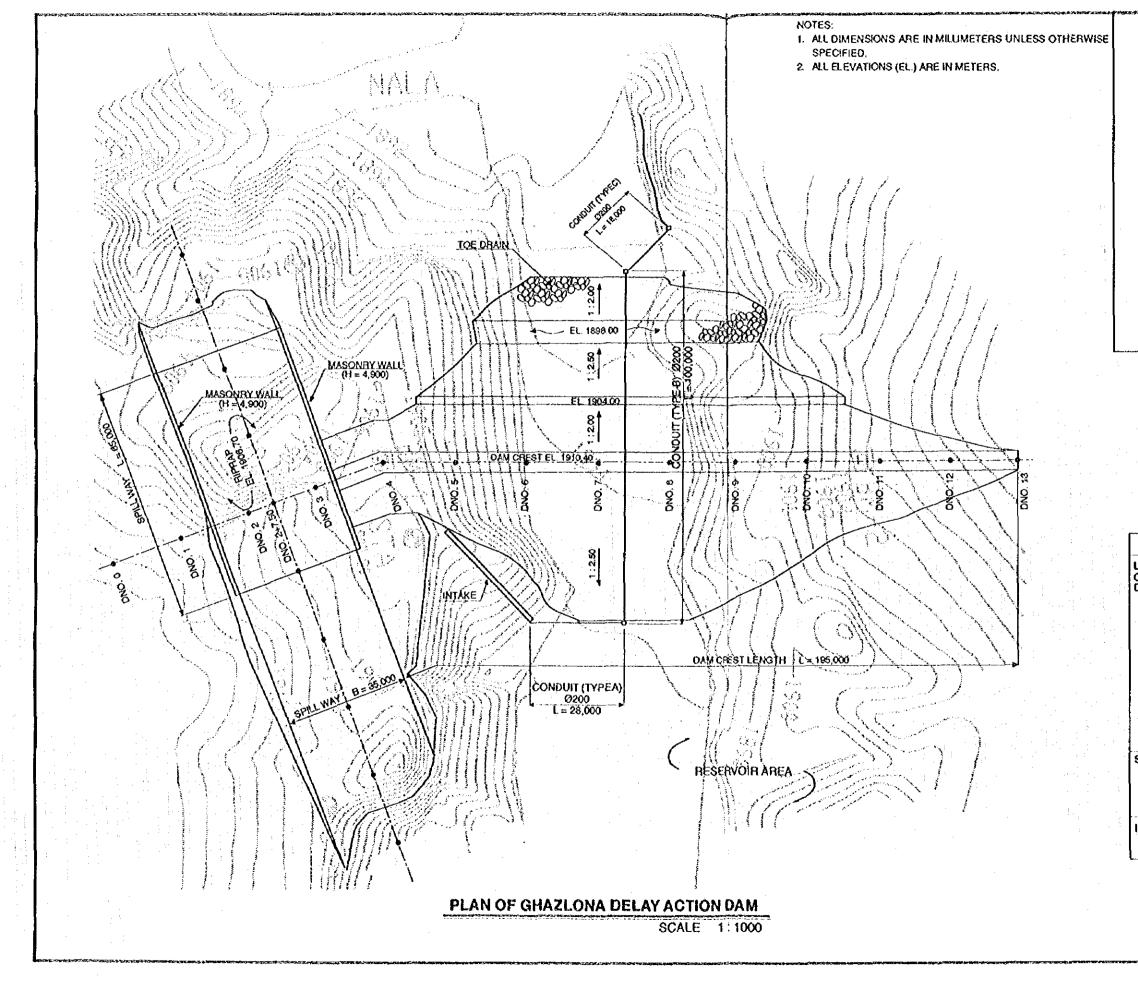




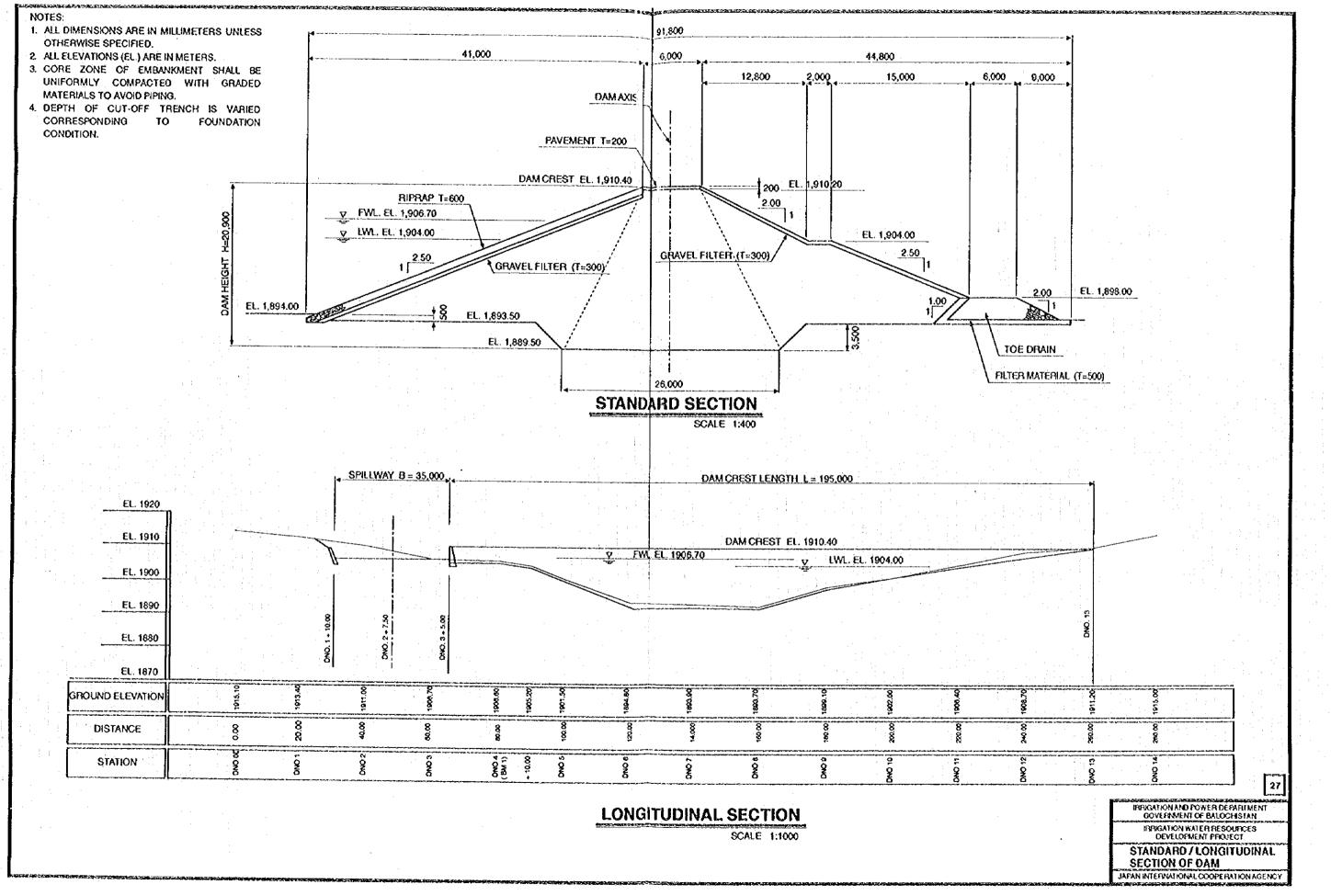


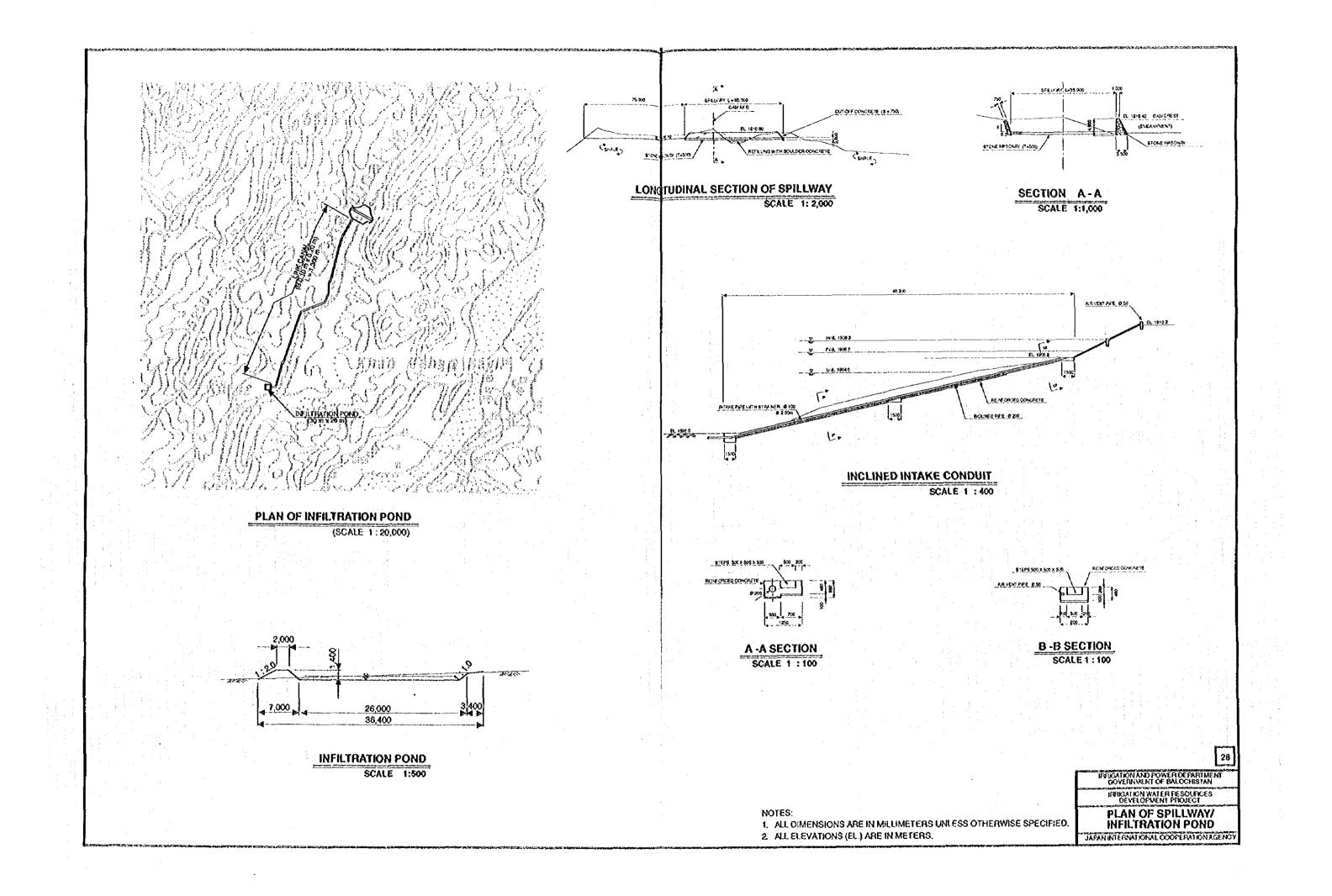
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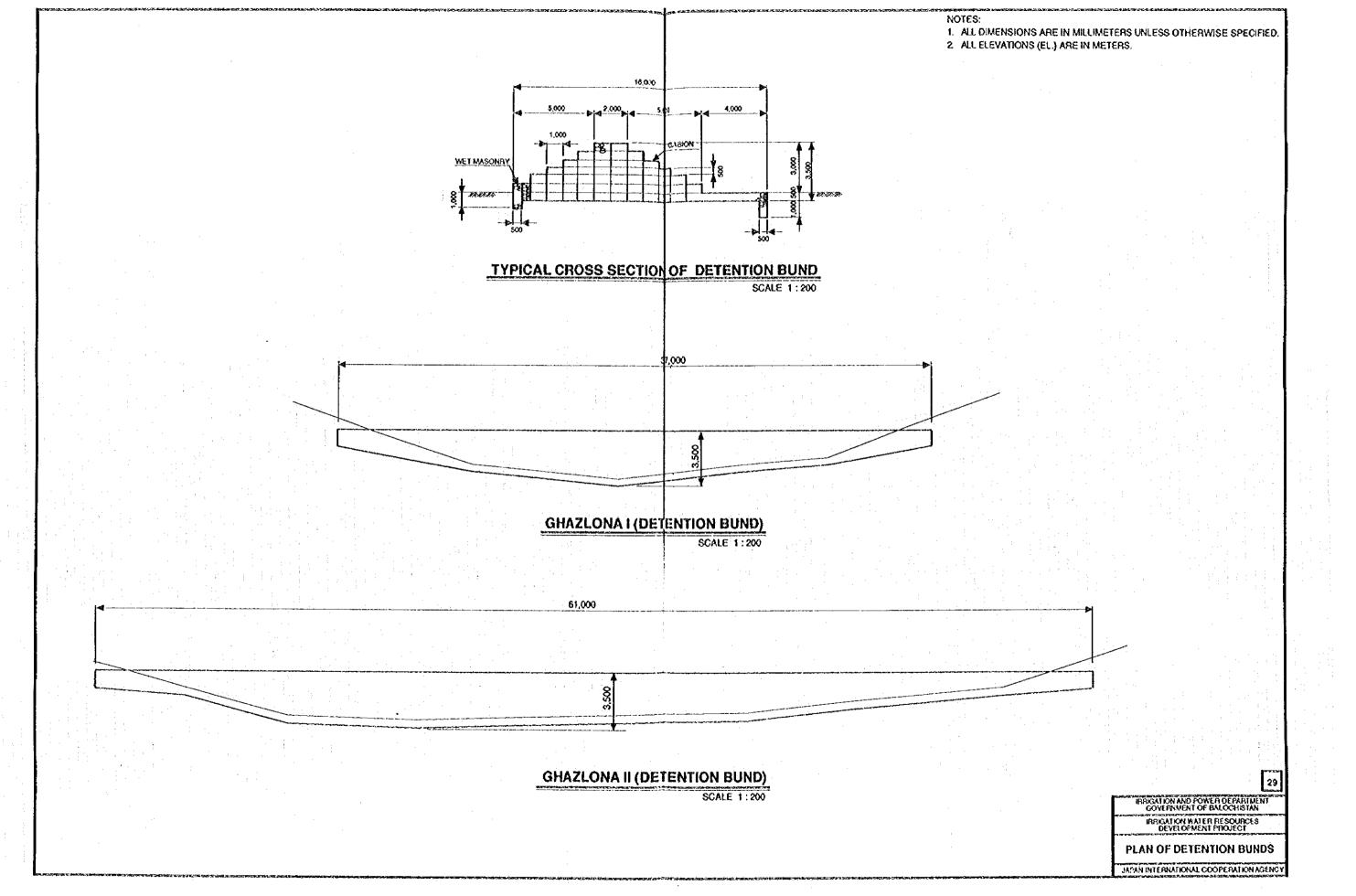


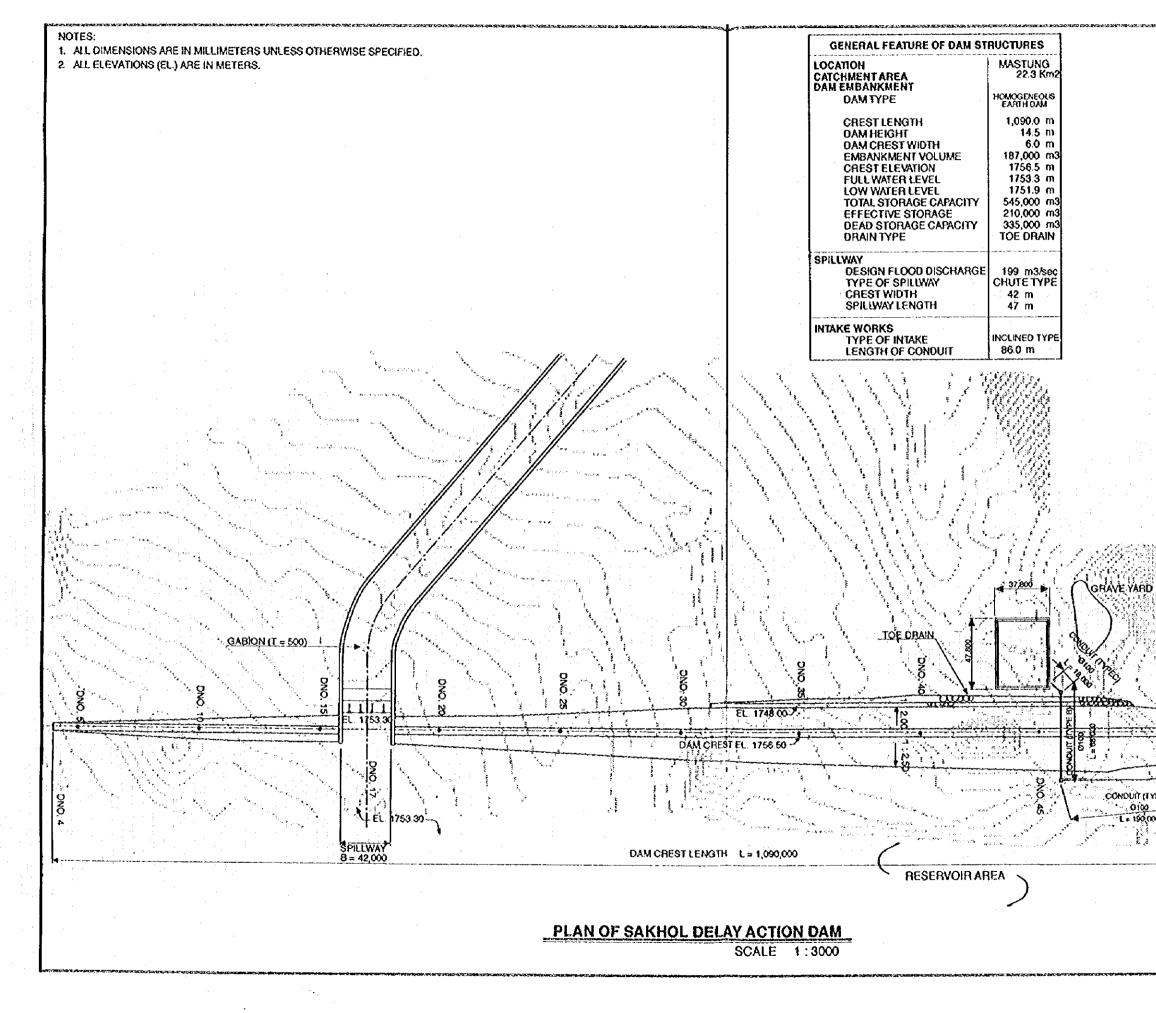


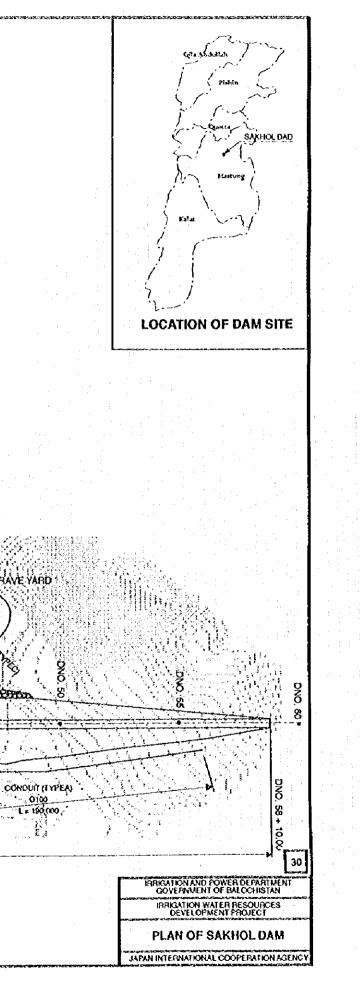
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GENERAL FEATURE OF DAM ST	BUCTURES		
	QUILA ABUDULA		
CATCHMENT AREA DAM EMBANKMENT	9.1 Km2		
DAM TYPE	HOMOGENEOUS EARTH DAM		
CREST LENGTH DAM HEIGHT	195.0 m 20.9 m		
DAM CREST WIDTH EMBANKMENT VOLUME	6.0 m 7,6000 m3		
CREST ELEVATION FULL WATER LEVEL	1,910.4 m 1,906.7 m		
LOW WATER LEVEL	1,904.0 m 331,000 m3		
TOTAL STORAGE CAPACITY EFFECTIVE STORAGE	140,000 m3 191,000 m3	ант. 1917 - Алт	
DEAD STORAGE CAPACITY DRAIN TYPE	TOE DRAIN		
SPILLWAY			
DESIGN FLOOD DISCHARGE TYPE OF SPILLWAY	CHUTE TYPE		
CREST WIDTH SPILLWAY LENGTH	35 m 65 m		
INTAKE WORKS			a Artic
TYPE OF INTAKE LENGTH OF CONDUIT	INCLINED TYPE	F]	
		26	
OOVERNA	ND POWER DEPARTM	N	
	N WATER RESOURCE OPMENT PROJECT	3	l
PLAN OF	GHAZLONA D	ΔM -	
JAPAN INTERNAT	KONAL COOPERATION	AGENCY]

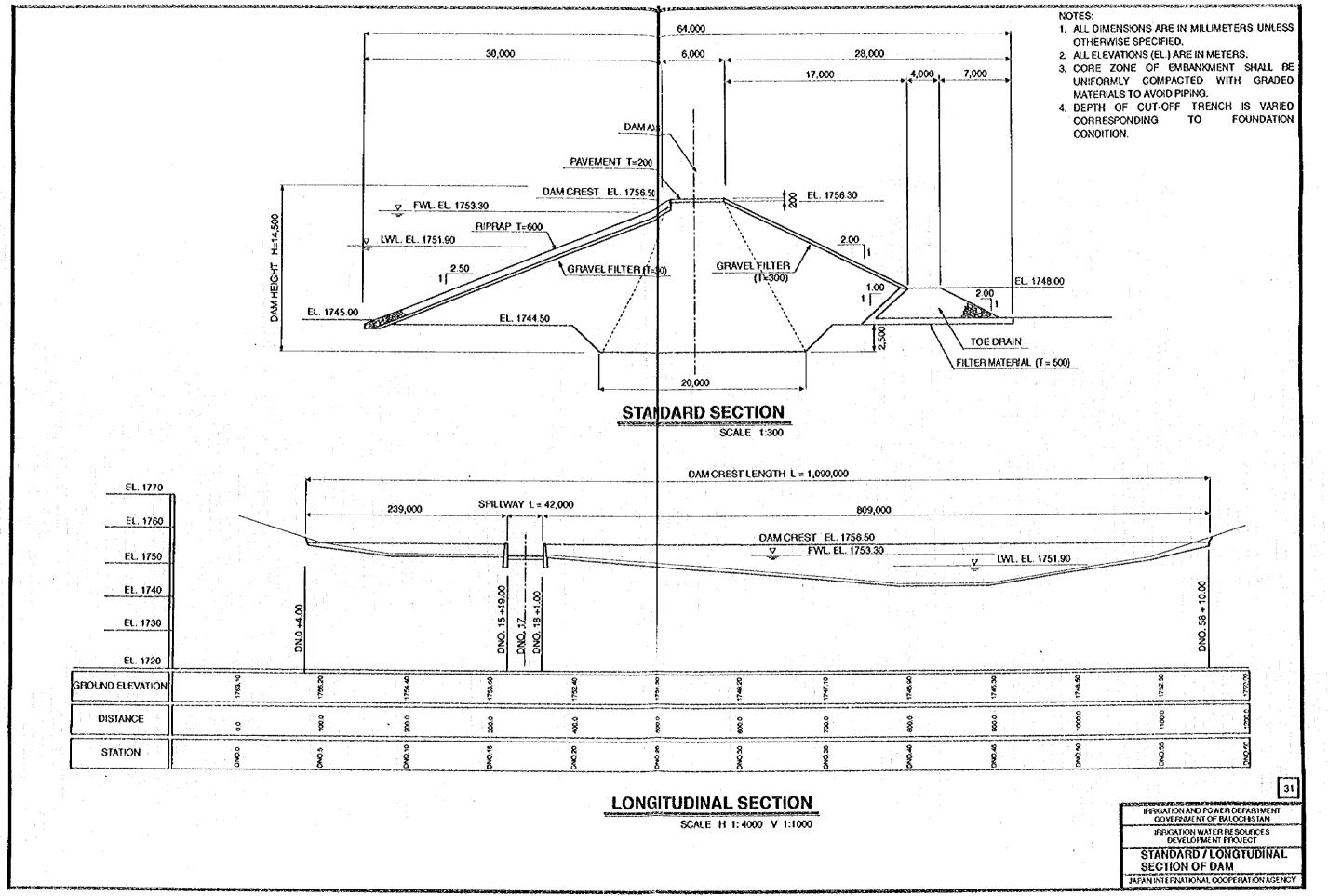


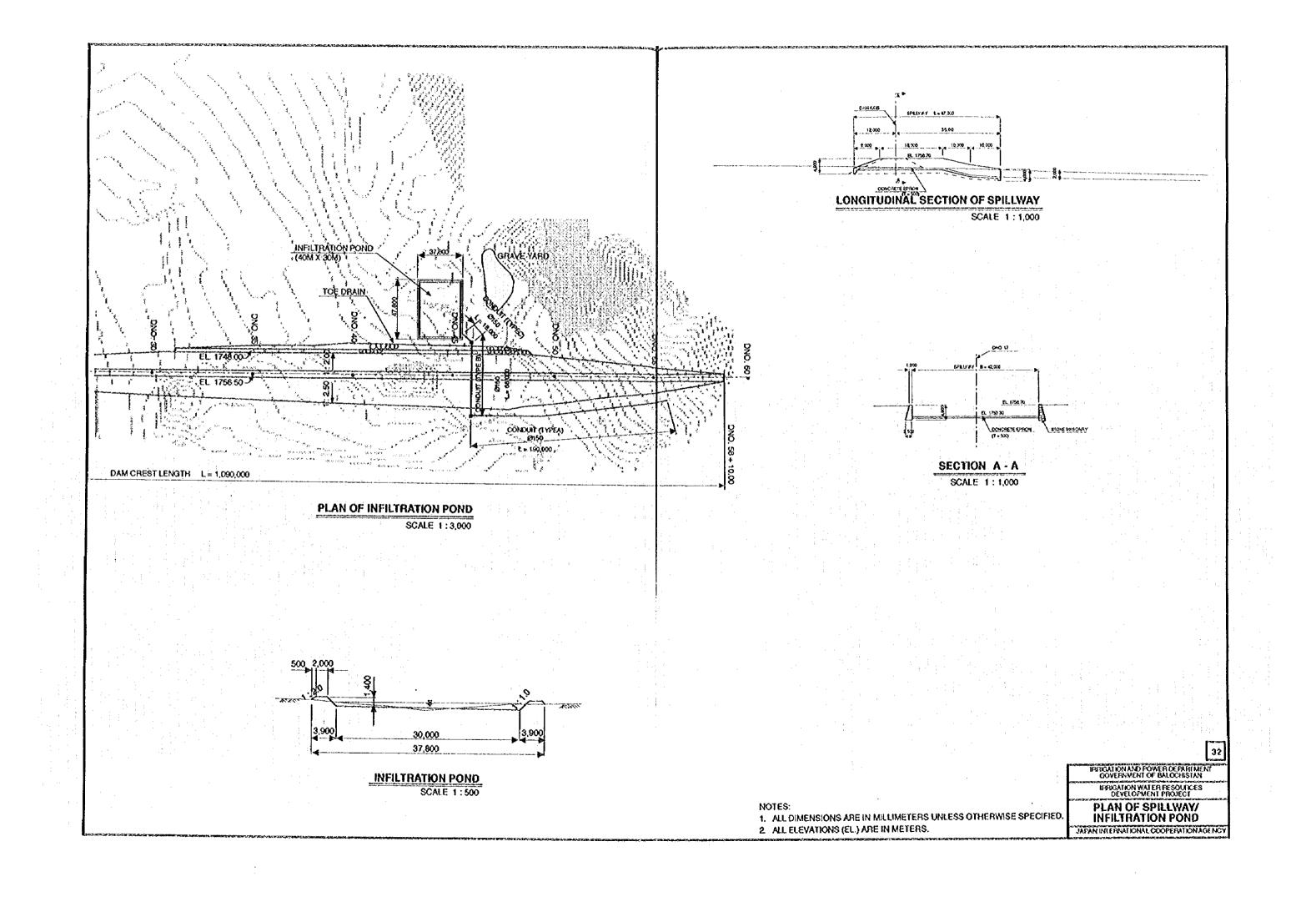


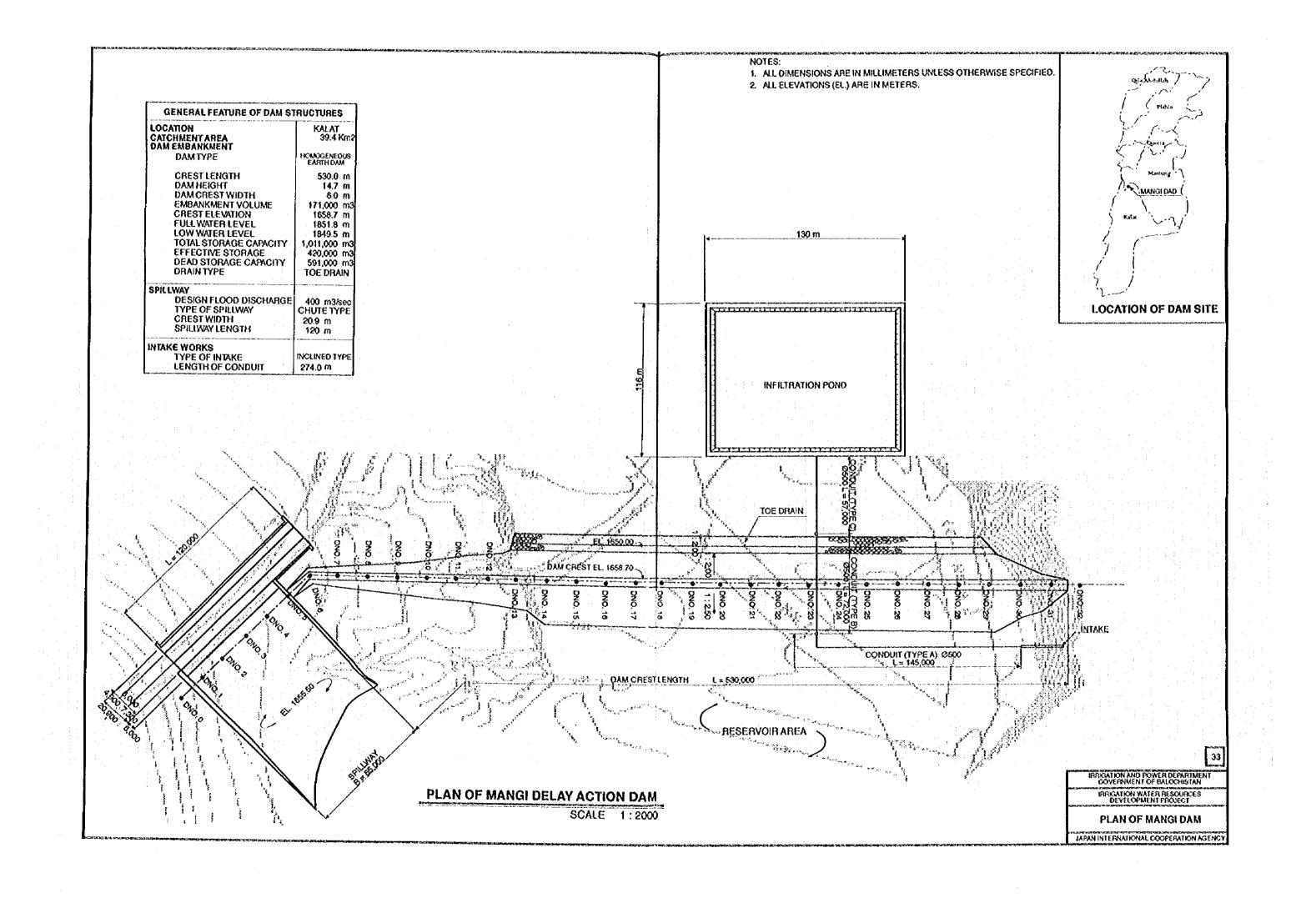


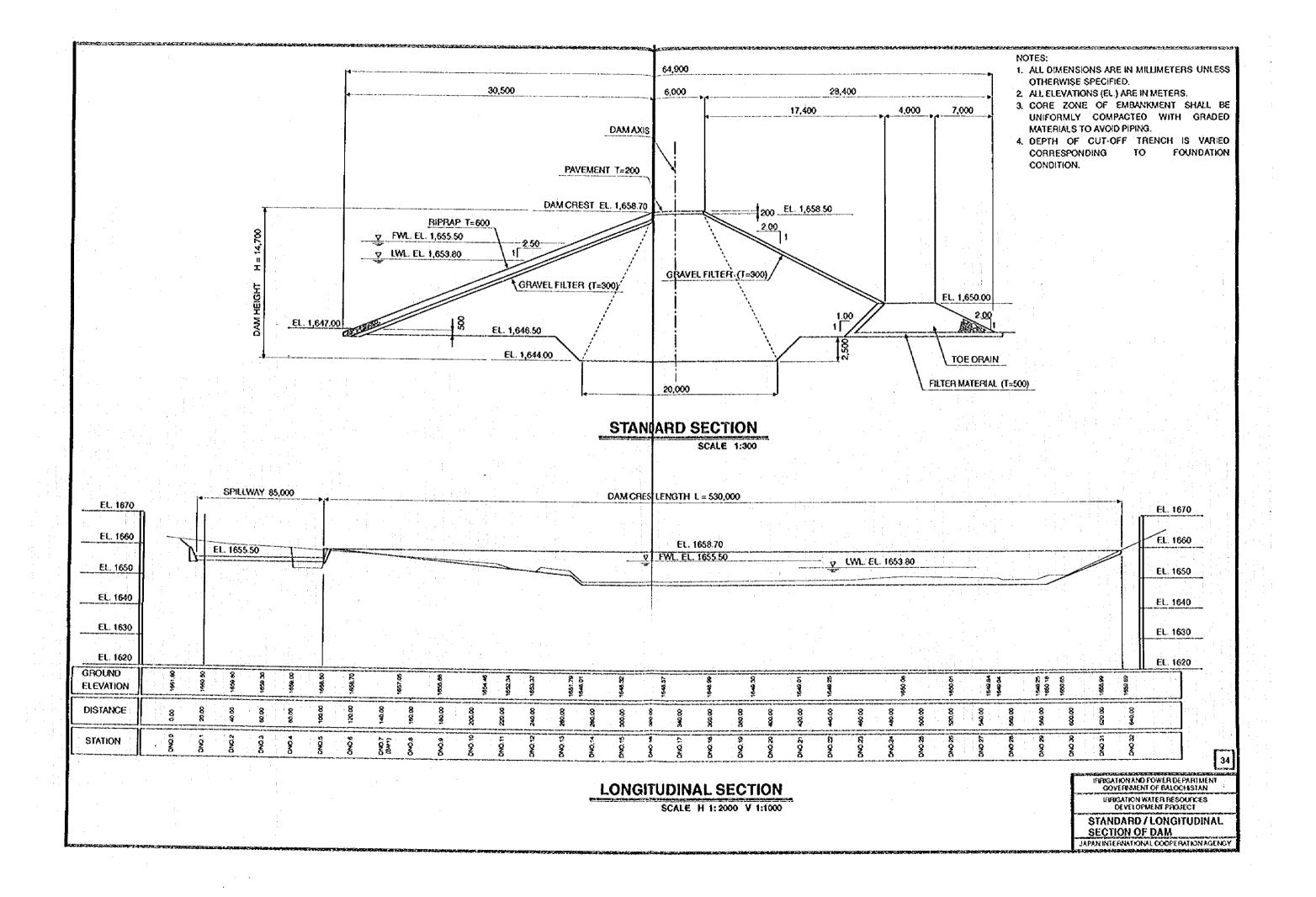


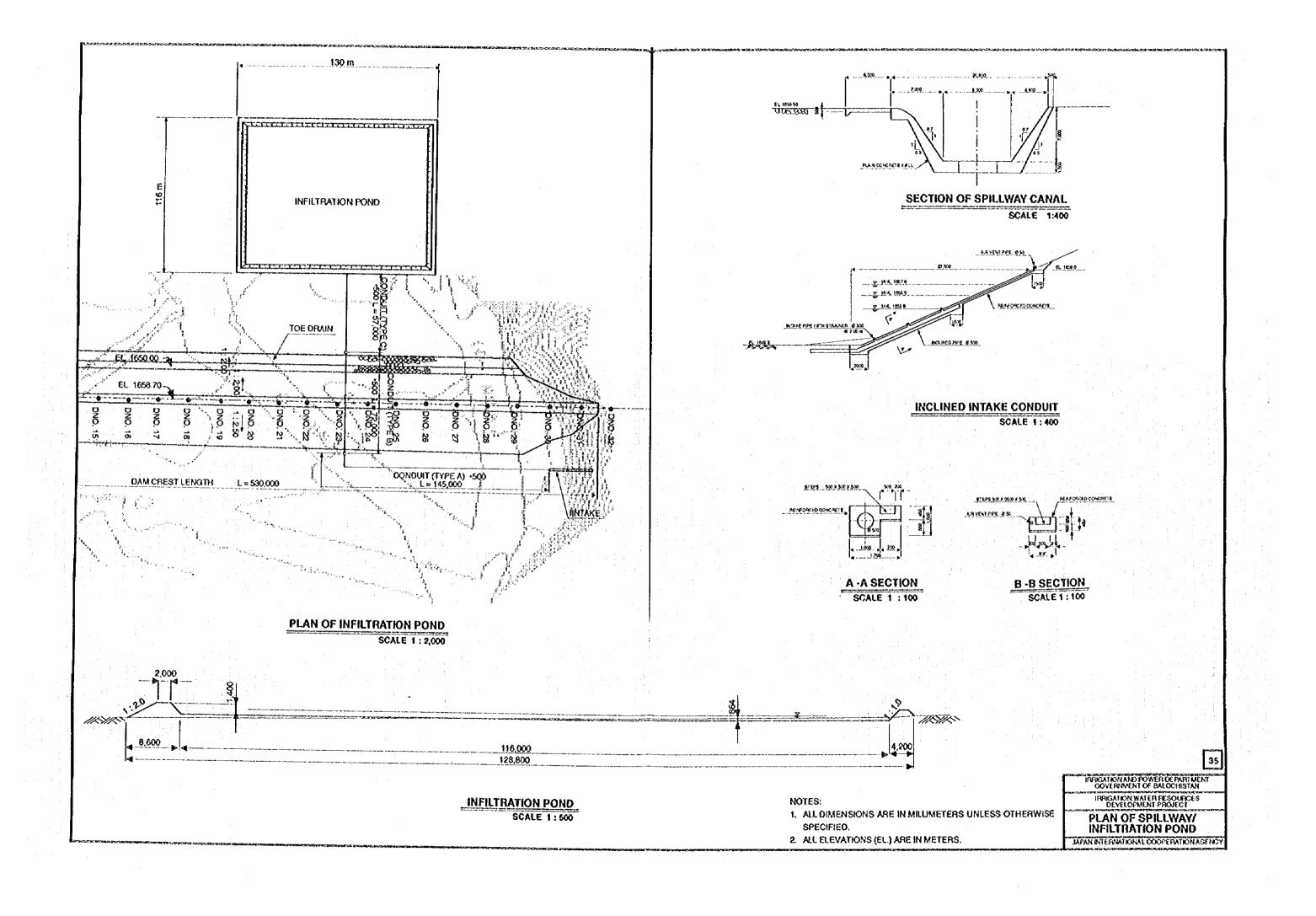


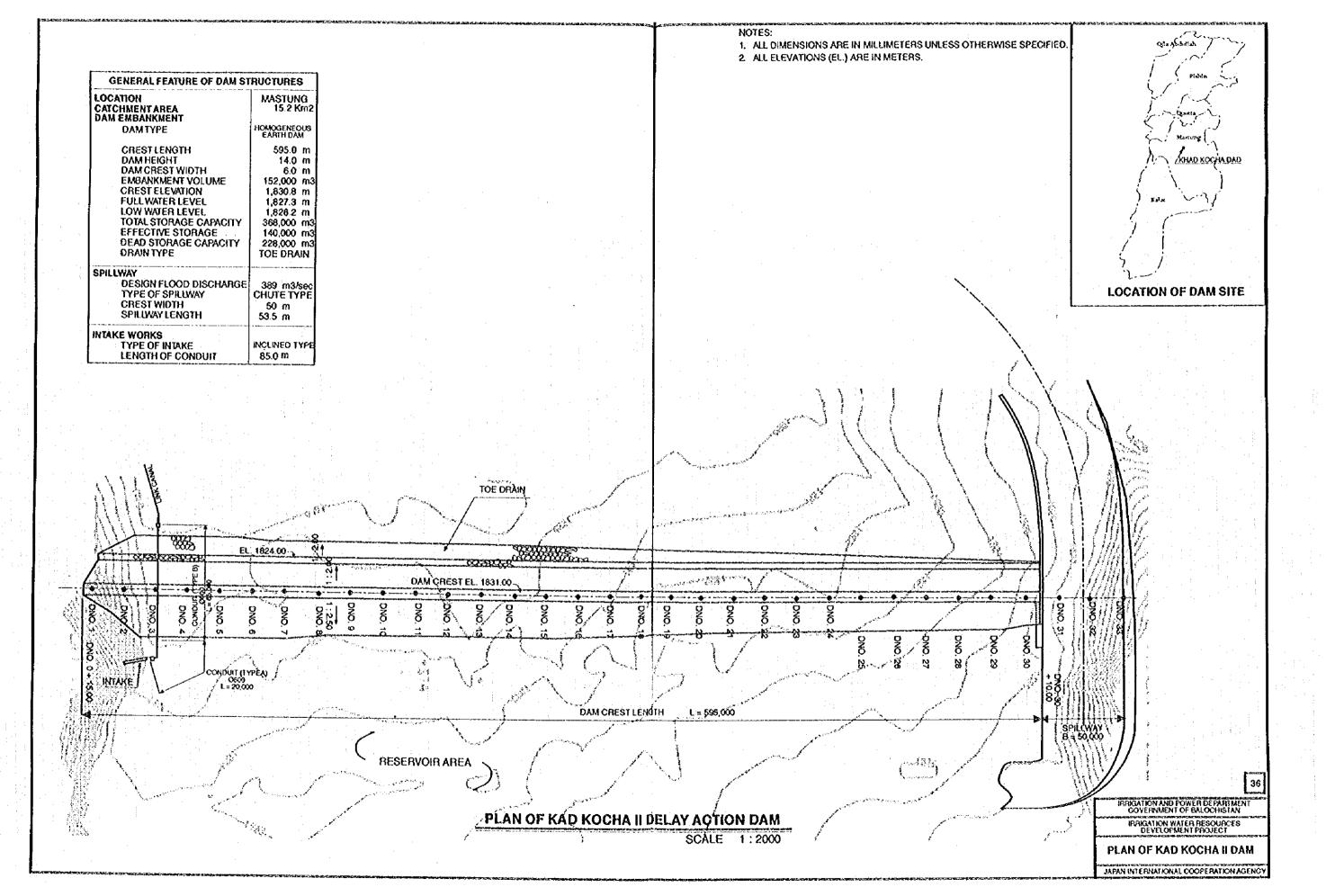


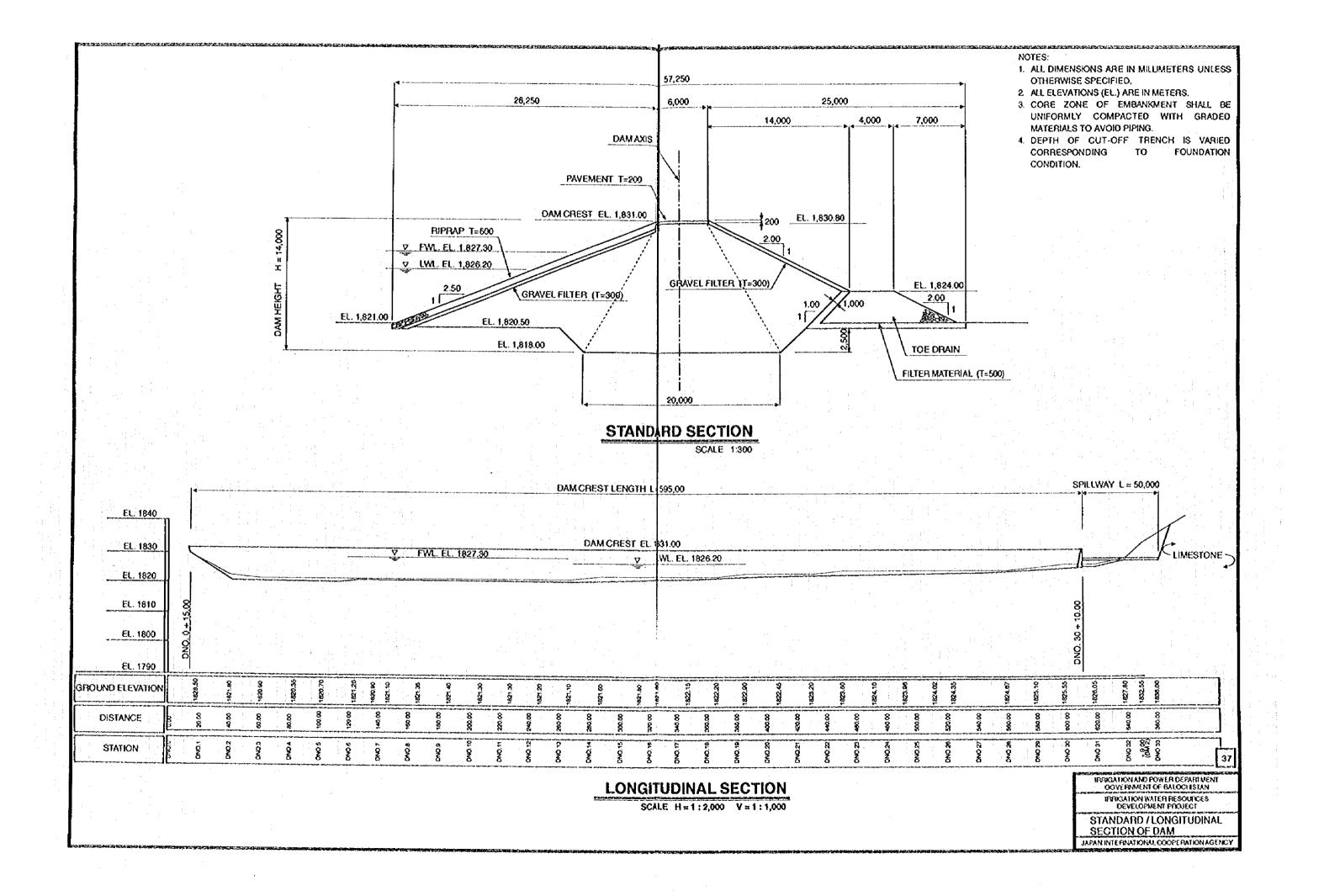


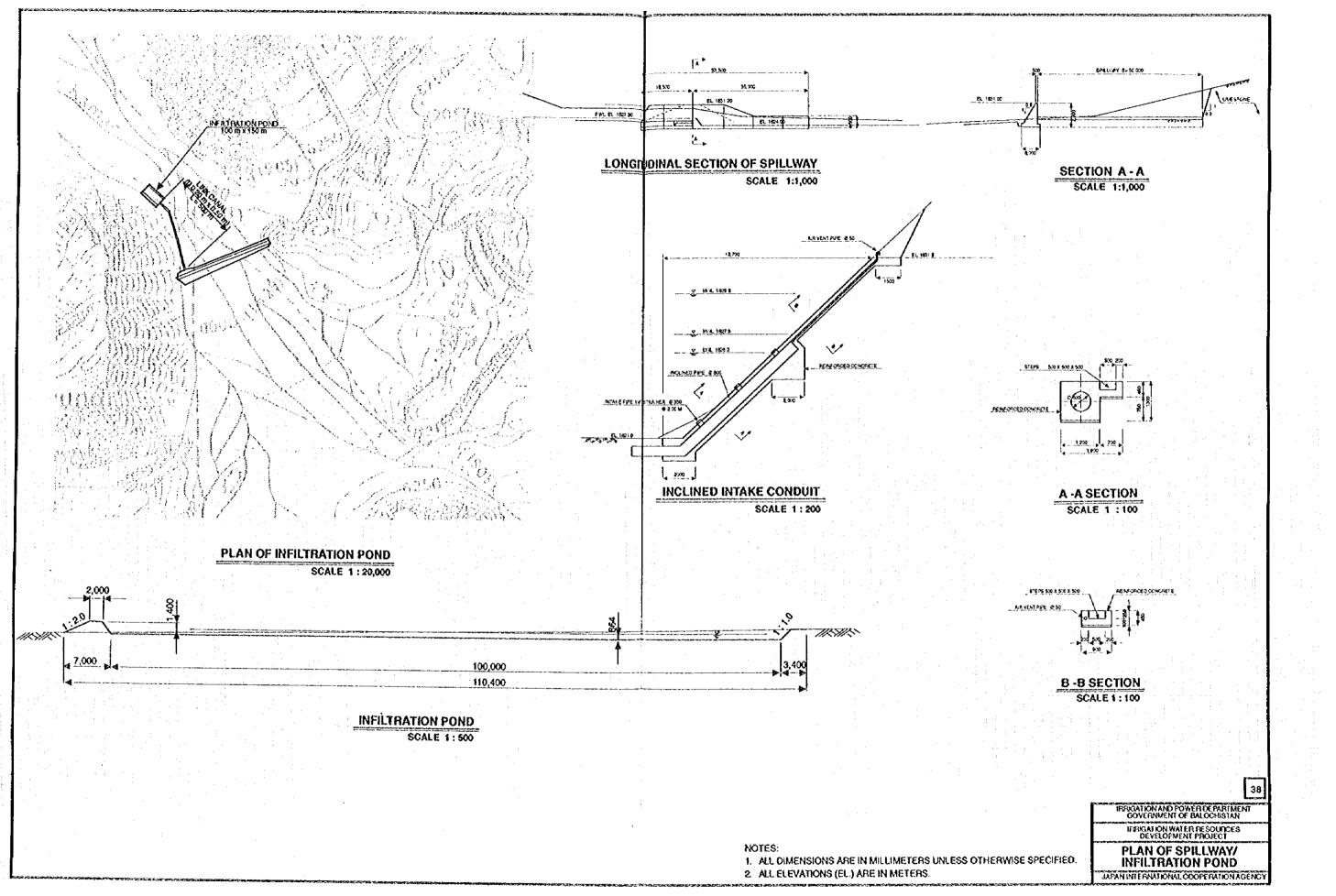


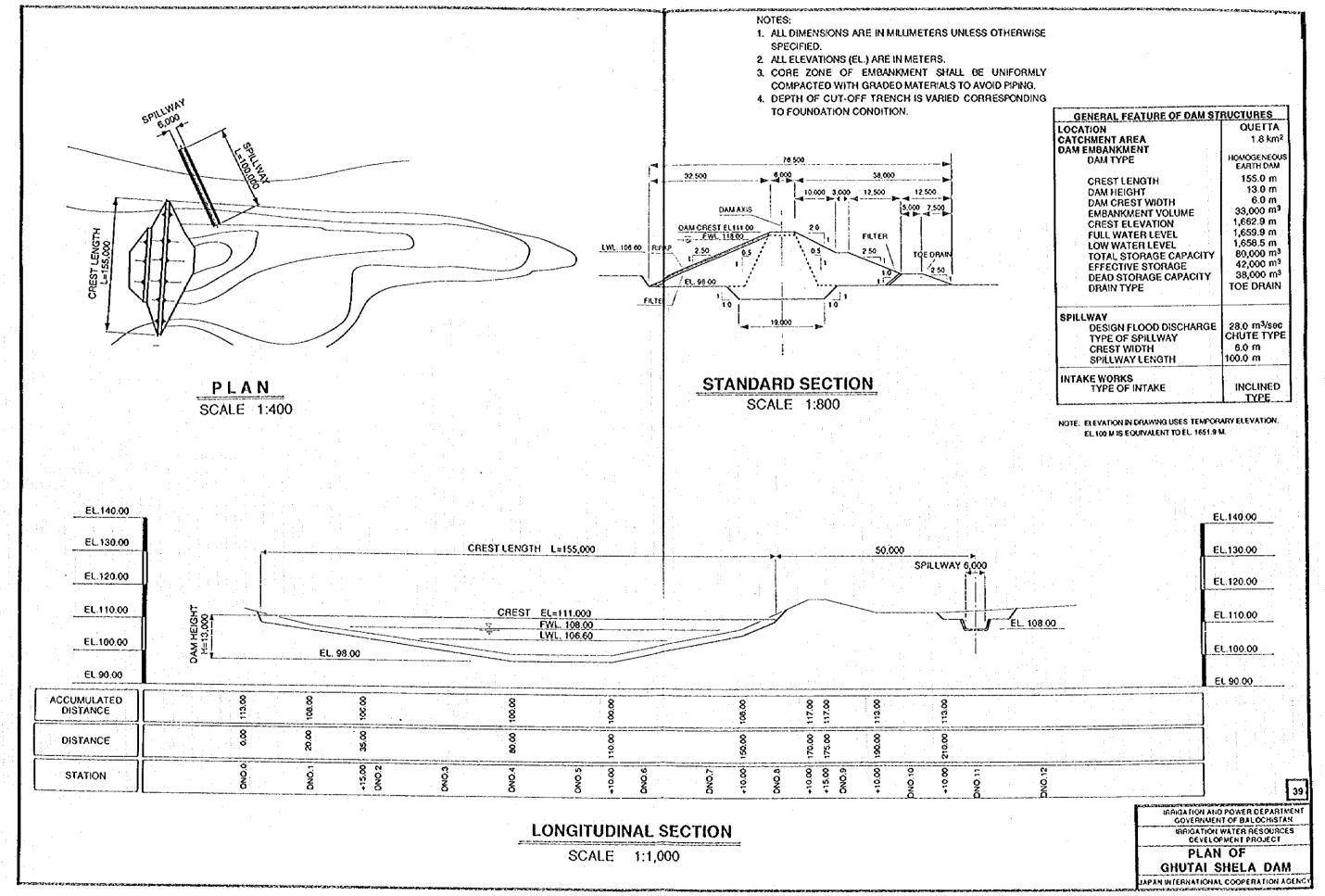




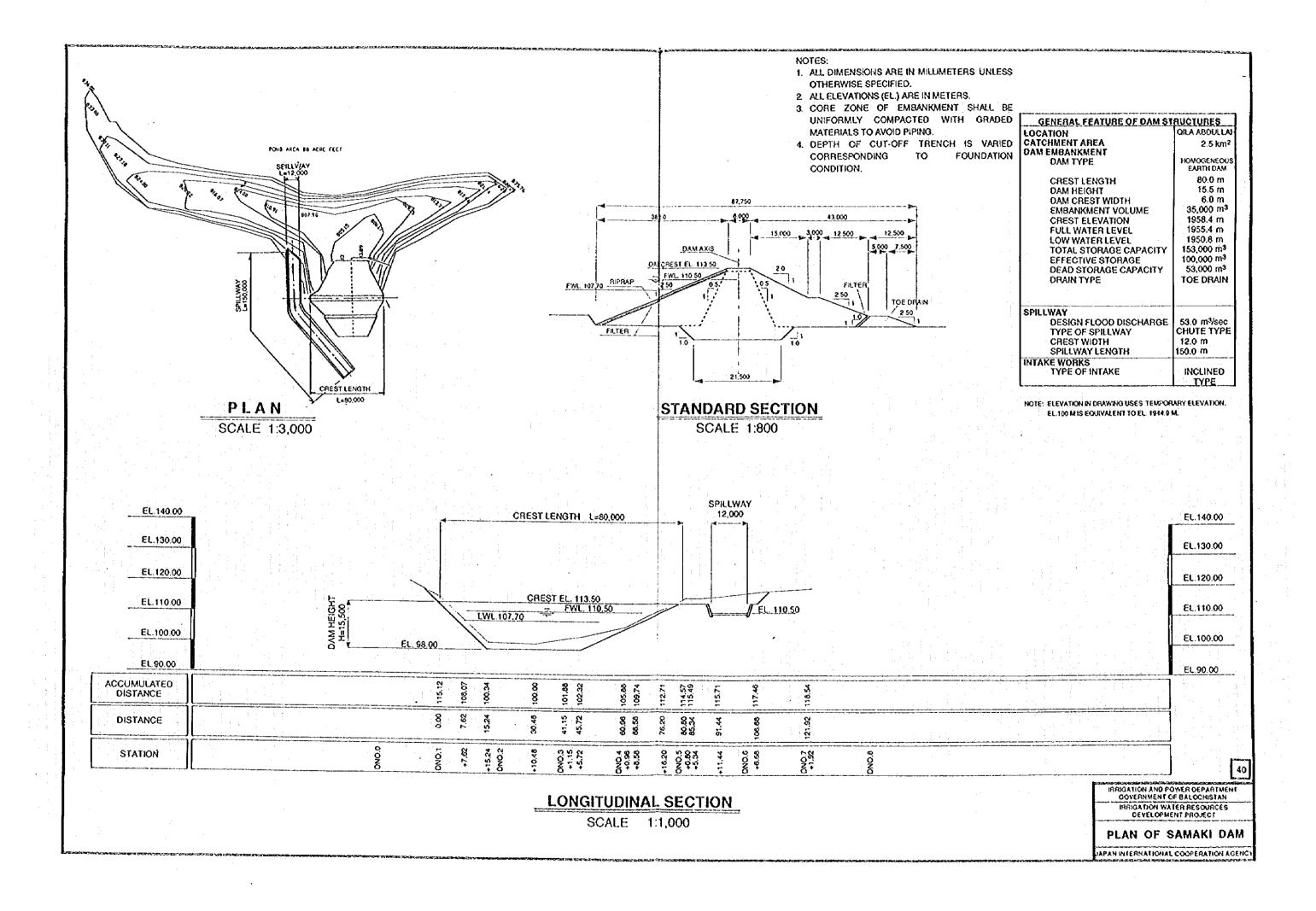


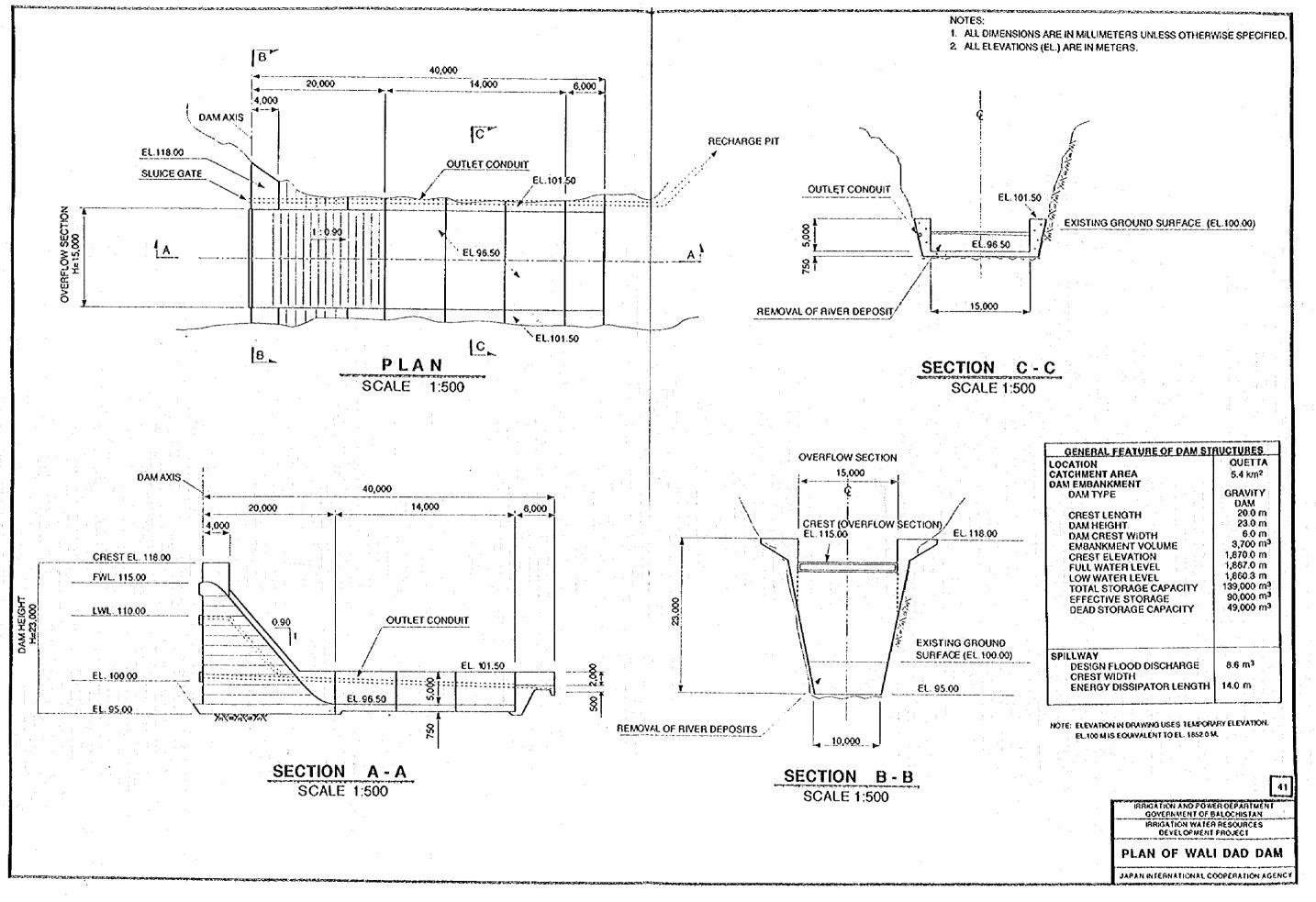


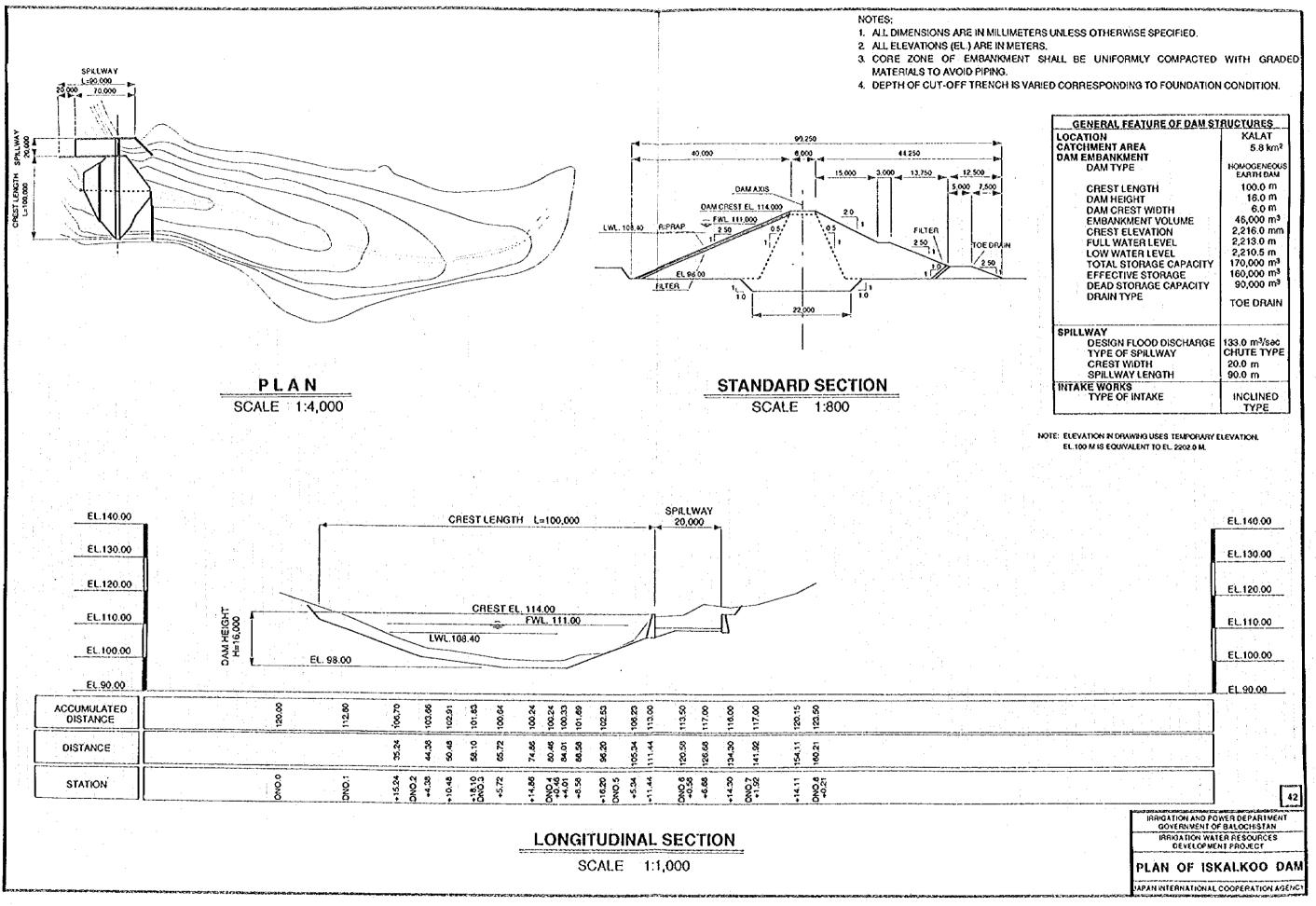


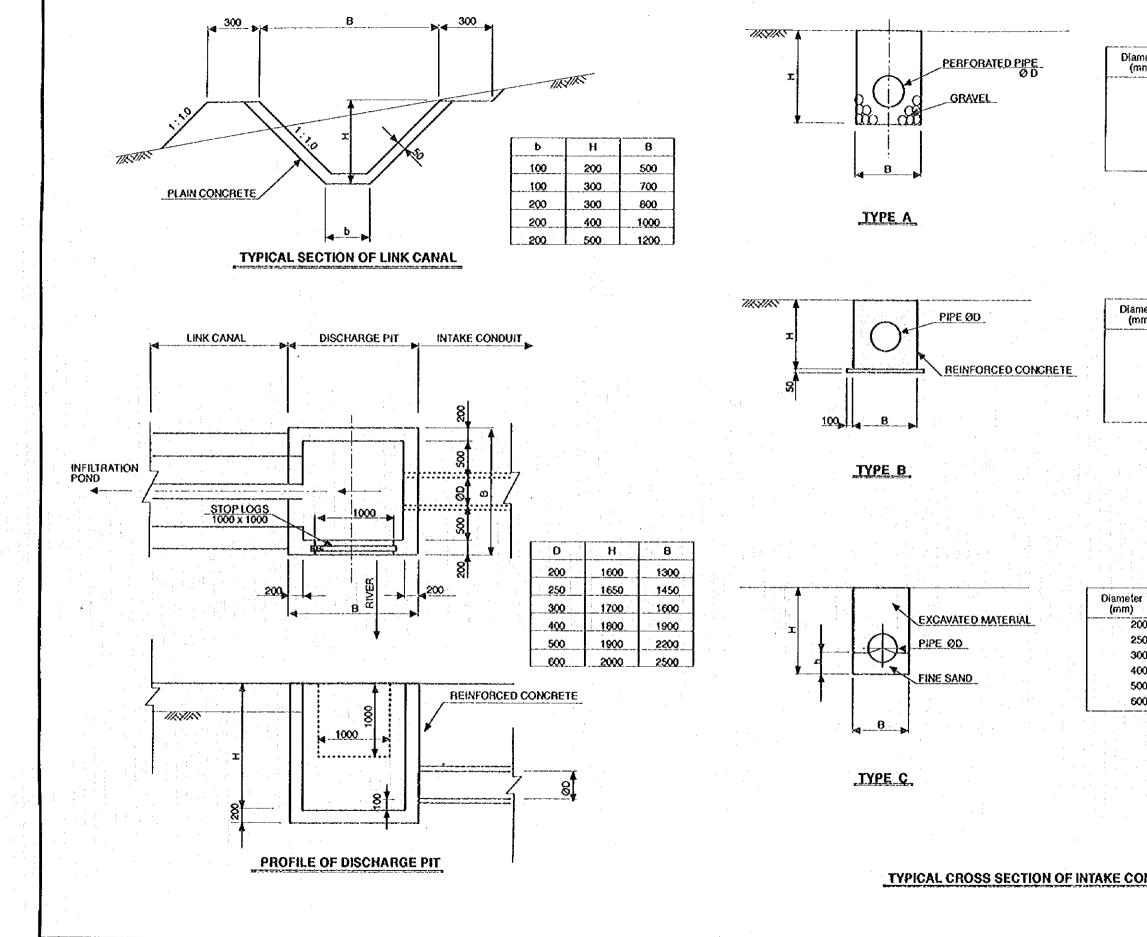


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Γ	GENERAL FEATURE OF DAM ST	RUCTURES
1	OCATION	QUETTA
_	ATCHMENT AREA	1.8 km ²
	AM EMBANKMENT	
ľ	DAM TYPE	HOMOGENEOUS
	2.10, 11 -	EARTH DAM
	CREST LENGTH	155.0 m
	DAM HEIGHT	.13.0 m
	DAM CREST WIDTH	6.0 m
	EMBANKMENT VOLUME	33,000 m ³
	CREST ELEVATION	1,662.9 m
	FULL WATER LEVEL	1,659.9 m
	LOW WATER LEVEL	1,658.5 m
	TOTAL STORAGE CAPACITY	80,000 m ³
	EFFECTIVE STORAGE	42,000 m ³
	DEAD STORAGE CAPACITY	38,000 m ³
	DRAIN TYPE	TOE DRAIN
s	PILLWAY	
	DESIGN FLOOD DISCHARGE	28.0 m ³ /sec
	TYPE OF SPILLWAY	CHUTE TYPE
	CREST WIDTH	6.0 m
	SPILLWAY LENGTH	100.0 m
۱.	NTAKE WORKS	
1	TYPE OF INTAKE	INCLINED
		TYPE









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ameter mm)	B (m)	8 (m)
200	0.550	0.900
250	0 600	0.950
300	0.650	1.000
400	0.800	1.100
500	1.000	1.250
600	1.200	1.400

imeter mm)	B (m)	́Н (m)
200	0.550	0.550
250	0.600	0.600
300	0.650	0.650
400	0.800	0.800
500	1.000	1.000
600	1.200	1.200

er	8 (m)	h (m)	H (m)	
200	0.600	0.160	0.700	1.
250	0.850	0.170	0.750	
300	0.900	0.170	0.800	
\$00	1.000	0.180	0.900	
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