Chapter 4 Project Evaluation and Recommendation

4-1 Project Effect

This Project aims at the development and raise of the living standard in the Communal Land, which are also promoted by the Government of Zimbabwe. In particular, the development of the Communal Land situated in the marginal area of the country, where people are suffering from unstable rain fed agriculture, is the most urgent subject by which the Government is confronted.

The implementation of this irrigation project in Nyakomba Ward which is the typical Communal Land contributes to leveling up of the living standard of indigenous people, by means of the construction of the irrigation facilities, stable supply of food and water decreasing women's heavy burden.

Therefore, a huge benefit is expected by means of the implementation of the Project, and the Project will contribute to the improvement of BHN(Basic Human Needs) of the farmers in the proposed Communal Land, so it is judged that the implementation of the Project under Japan's Grant Aid is appropriate.

The effect of this Project is summarized as follows.

Through the introduction of irrigation, the yield of maize will increase, thus, staple food can be secured steadily and cash crops are possible to be introduced. Hence, the increase of farmers' income and leveling up of the living standard are expected. The beneficiaries of the Project living in the area are listed below.

Item	Block D	Block A	Block E
Beneficiaries (The number of house hold)	147	131	121
Beneficiaries (Population)	846	683	758

As well as already implemented Block B and C in Phase I, AGRITEX can provide the benefited farmers with training after introduction of irrigation. AGRITEX is planning to conduct study and training for the farmers using the project management facility constructed in Phase 1. Its program is under preparation and the necessary budget is to be secured.

As these support by the Government is expected, irrigated agriculture of the whole year

will be realized, and double or triple cropping can be expected to take root smoothly.

- : By means of the development of farm roads in the total area, the access from fields and villages to the main district road is becoming simple and easier, thus, regional transportation system will be far improved.
- : Farmers can draw water for their domestic use from the farm pond or irrigation canals adjacent to their residences. The volume of water for domestic use is estimated as 650 l/family/day(Suppose 6 people and 5 cattle per family: 300 litters are for the people, in which 90 litters for eating and drinking). The pumping capacity includes this volume of water, therefore, women are released from the heavy work of drawing water from the far river. However, from the point of view of public health, it is necessary to lead farmers to use water only after boiling.

Agriculture is the basic industry in the Communal Lands, however, improvement of agricultural conditions including social infrastructure has been delayed. Consequently, the present condition shows that the farmers are forced to carry out agriculture with low productivity in this region. The Government of Zimbabwe has been trying to construct irrigation facilities and to give a lead to farmers to improve such poor conditions, but the progress is limited due to the tight financial situation of the country.

The implementation of the Project continued from phase 1 is expected to realize the improvement of living standards in the Nyakomba Ward, which is one of the typical Communal Lands, by means of 1) increasing income, 2) improvement of employment opportunities, 3) a stable food supply and 4) reduction of the labour burden of women and children by providing a constant water supply that is derived from the construction of the irrigation facilities. Moreover, its implementation is expected to have beneficial effects on the adjacent areas.

4-2 Recommendation

As mentioned above, the Project will contribute to the increase of agricultural production, leveling up of living standard and the improvement of BHN of the farmers in the proposed Communal Land. Concerning the operation and maintenance of the Project, the responsible organization of Zimbabwe has sufficient personnel and knowledge. Moreover, seeing the successful example of phase 1, the expectation of the farmers toward the irrigated agriculture is so high, thus, as for the operation and maintenance after construction, there are expected to be no problems.

Prior to the commencement of the Project, the Government of Zimbabwe is requested to understand well the system of Japan's Grant Aid and the content of this Project and to comply with formalities required by the authorities to avoid any interference with the Project. It is also requested during the construction, to establish a proper organization and to execute the obligations to be done by the Government of Zimbabwe. After the construction, long lasting follow-up to the Project by the Government is also requested.

Thus, it is considered, that if the following points were to be improved and maintained, the Project will be carried out more smoothly and effectively.

(1) Securing of budget for the Project

Securing of the budget for the staffs of AGRITEX and DWD and for management and operation & maintenance costs during the implementation stage and execution stage of the Project is necessary.

(2) Establishment of farmers' organization and strengthening its activity

After the completion of the construction, the beneficiaries in each block are expected to make an organization for the operation and maintenance of the Project. To make this organization more active and efficient, cooperation and assistance by AGRITEX are essential.

(3) Establishment of the supporting system for the irrigated farming

Farmers in the area have no experience of irrigated farming, so they have little knowhow regarding effective timing and method of irrigation, proper crops and the management of the crops under irrigation. Therefore, like in block C, supporting and guidance by AGRITEX are absolutely necessary.

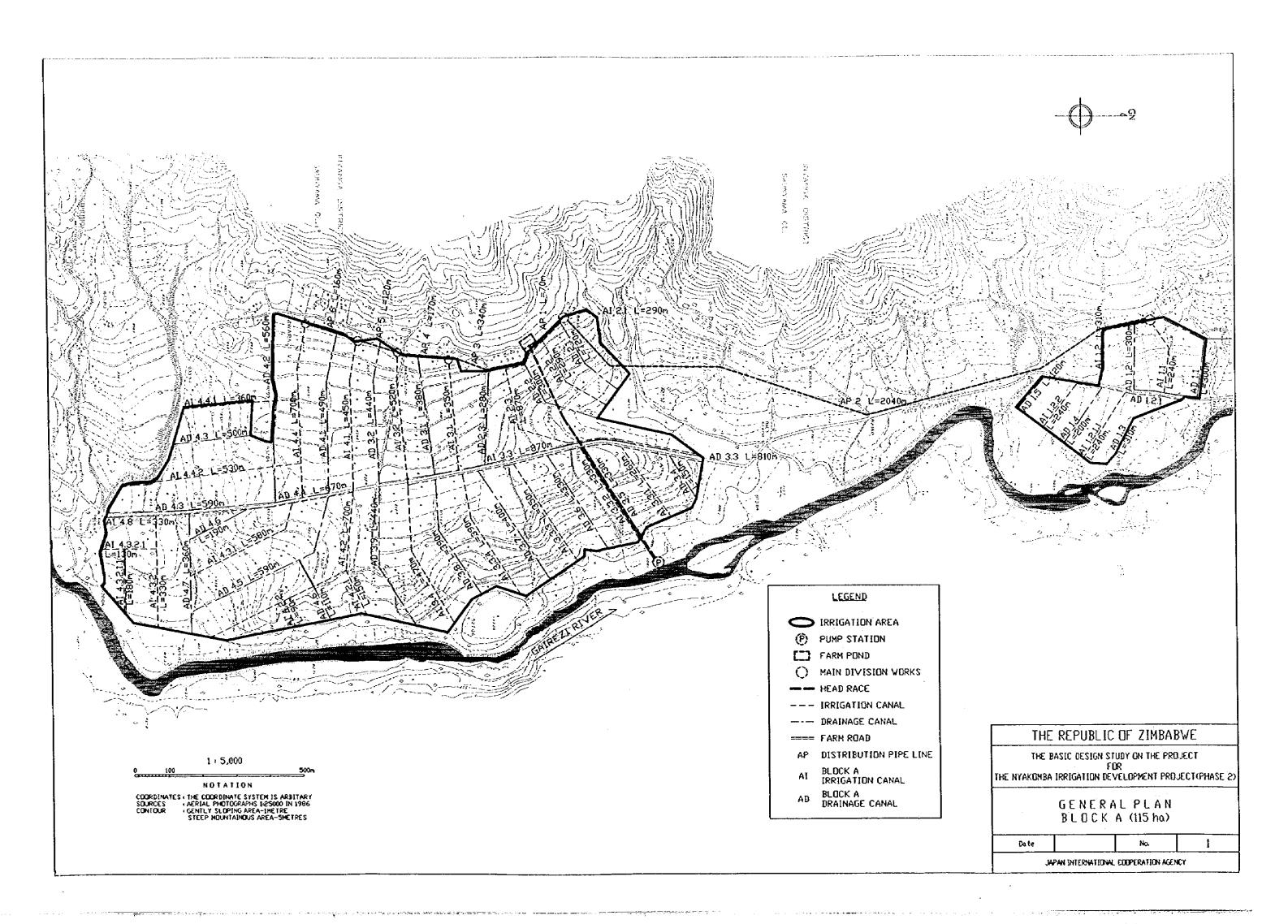
[DRAWINGS]

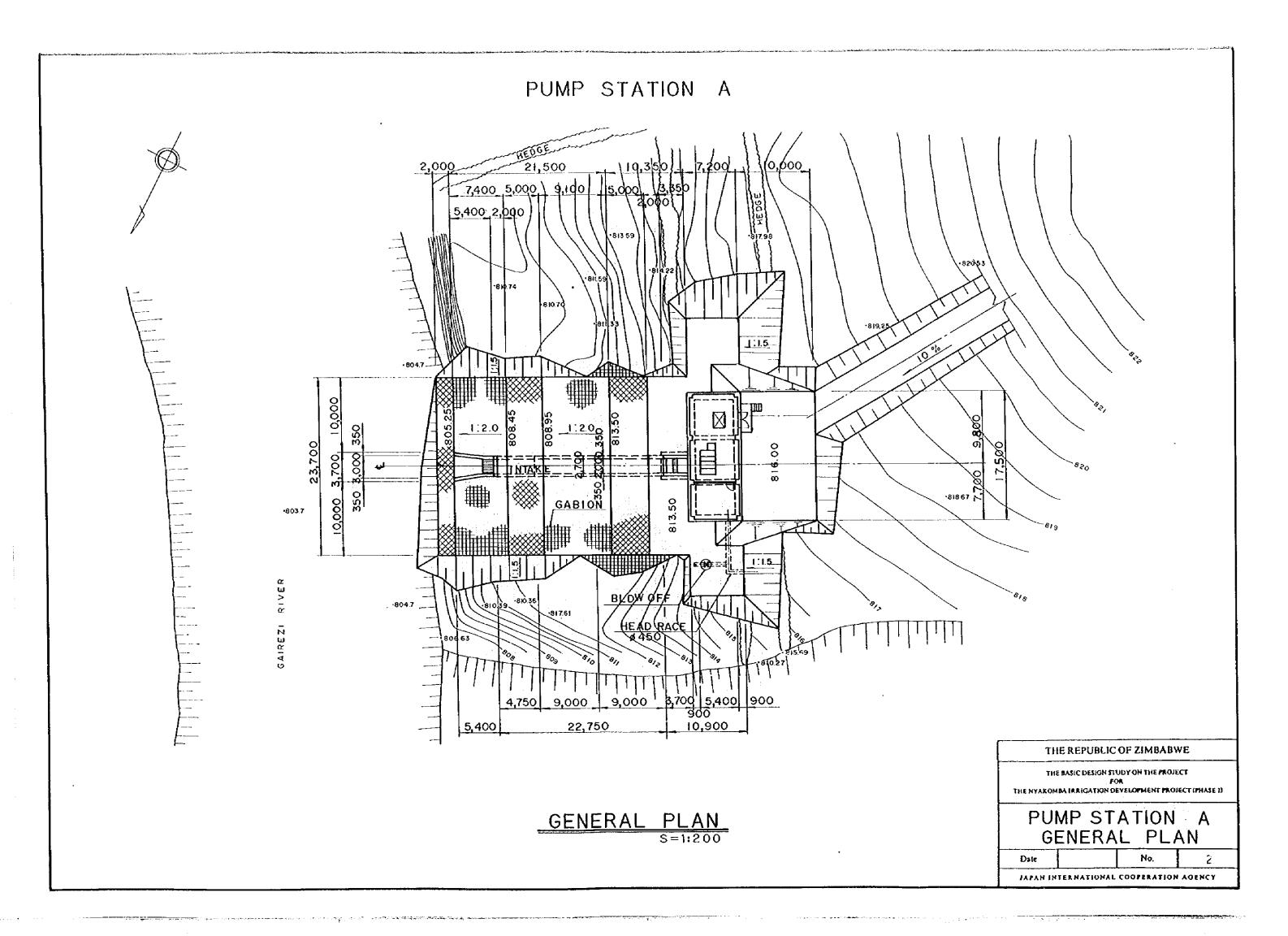
[Drawings]

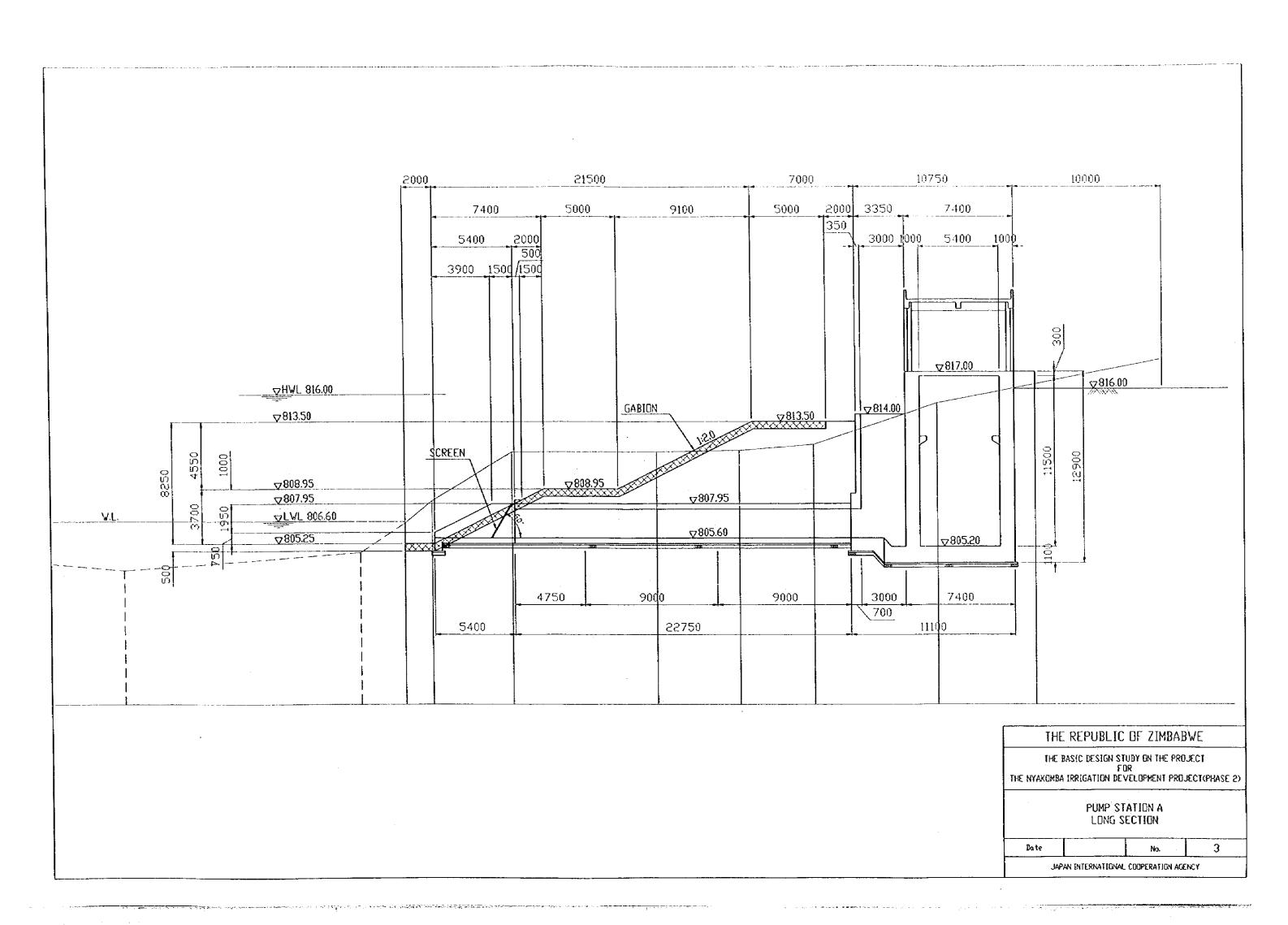
List of Drawings

No.	Title	No.	Title
	[Block A] A=115ha	28	FARM POND: DETAILS
1	GENERAL PLAN	29	IRRIGATION FACILITIES (1/3)
2	PUMP STATION: GENERAL PLAN	30	n (2/3)
3	" : LONG SECTION	31	n (3/3)
4	n : CROSS SECTION	32	DRAINAGE FACILITIES (1/2)
5	" : FACILITY PLAN	33	H (2/2)
6	" : FACILITY SECTION	34	FARM ROAD: TYPICAL SECTION
7	" : PUMP ROOM PLAN	35	TEMPORALY STORAGE FACILITY (1/2)
8	# : PUMP ROOM SECTION	36	" (2/2)
9	HEAD RACE: LONG SECTION	i	[Block E] A=94ha
10	FARM POND : PLAN AND SECTION	37	GENERAL PLAN
11	n : DETAILS	38	PUMP STATION: GENERAL PLAN
12	IRRIGATION FACILITIES (1/3)	39	" : LONG SECTION
13	и (2/3)	40	" : CROSS SECTION
14	11 (3/3)	41	" : FACILITY PLAN
15	DRAINAGE FACILITIES (1/2)	42	" : FACILITY SECTION
16	n (2/2)	43	" : PUMP ROOM PLAN
17	FARM ROAD: TYPICAL SECTION	44	" : PUMP ROOM SECTION
	[Block D] A=203ha	45	HEAD RACE: LONG SECTION
18	GENERAL PLAN	46	FARM POND : PLAN AND SECTION
19	PUMP STATION: GENERAL PLAN	47	# : DETAILS
20	# : LONG SECTION	48	IRRIGATION FACILITIES (1/3)
21	# : CROSS SECTION	49	n (2/3)
22	" : FACILITY PLAN	50	n (3/3)
23	" : FACILITY SECTION	51	DRAINAGE FACILITIES (1/2)
24	" : PUMP ROOM PLAN	52	n (2/2)
25	# : PUMP ROOM SECTION	53	FARM ROAD: TYPICAL SECTION
26	HEAD RACE: LONG SECTION		
27	FARM POND : PLAN AND SECTION		

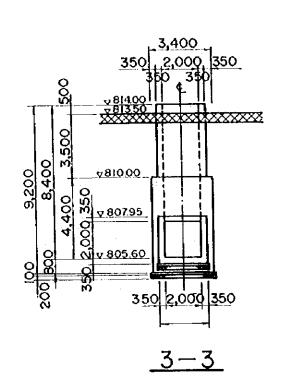


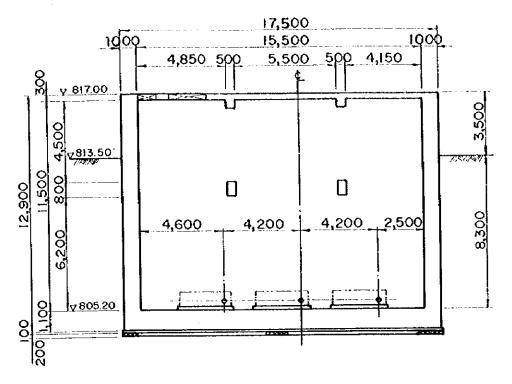




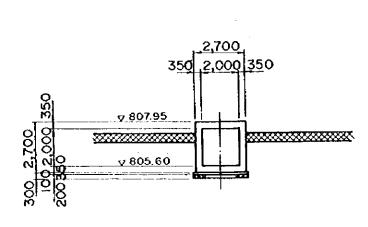


PUMP STATION A SECTION S=1:100



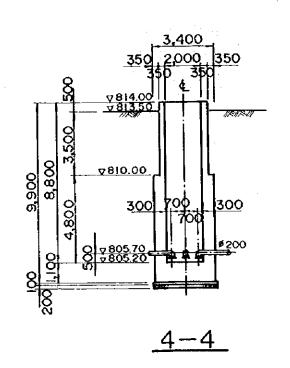


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THE REPUBLIC OF ZIMBABWE

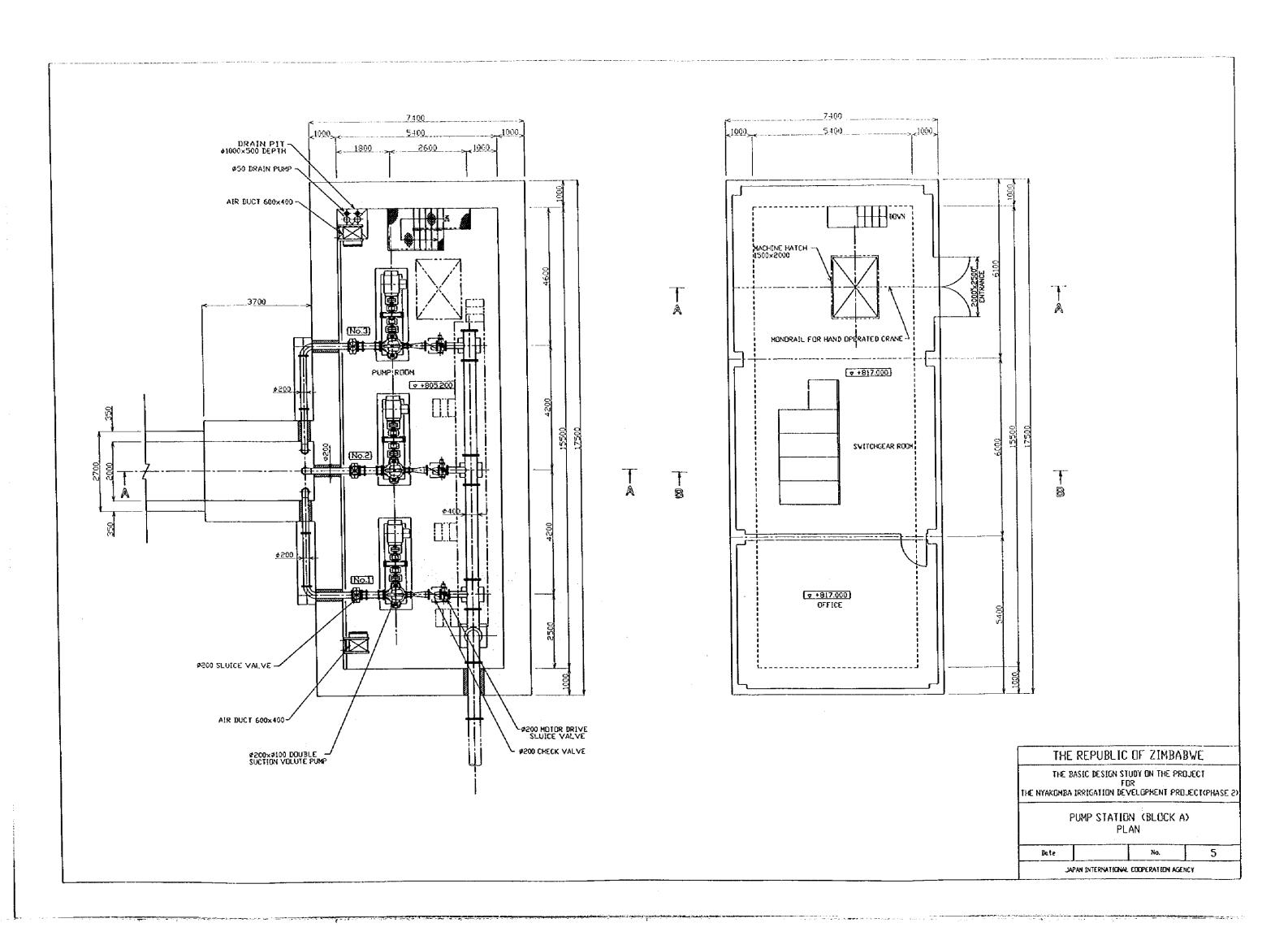
THE BASIC DESIGN STUDY ON THE PROJECT
FOR
THE NYAXOMBA TARIGATION DEVELOPMENT PROJECT (PHASE 2)

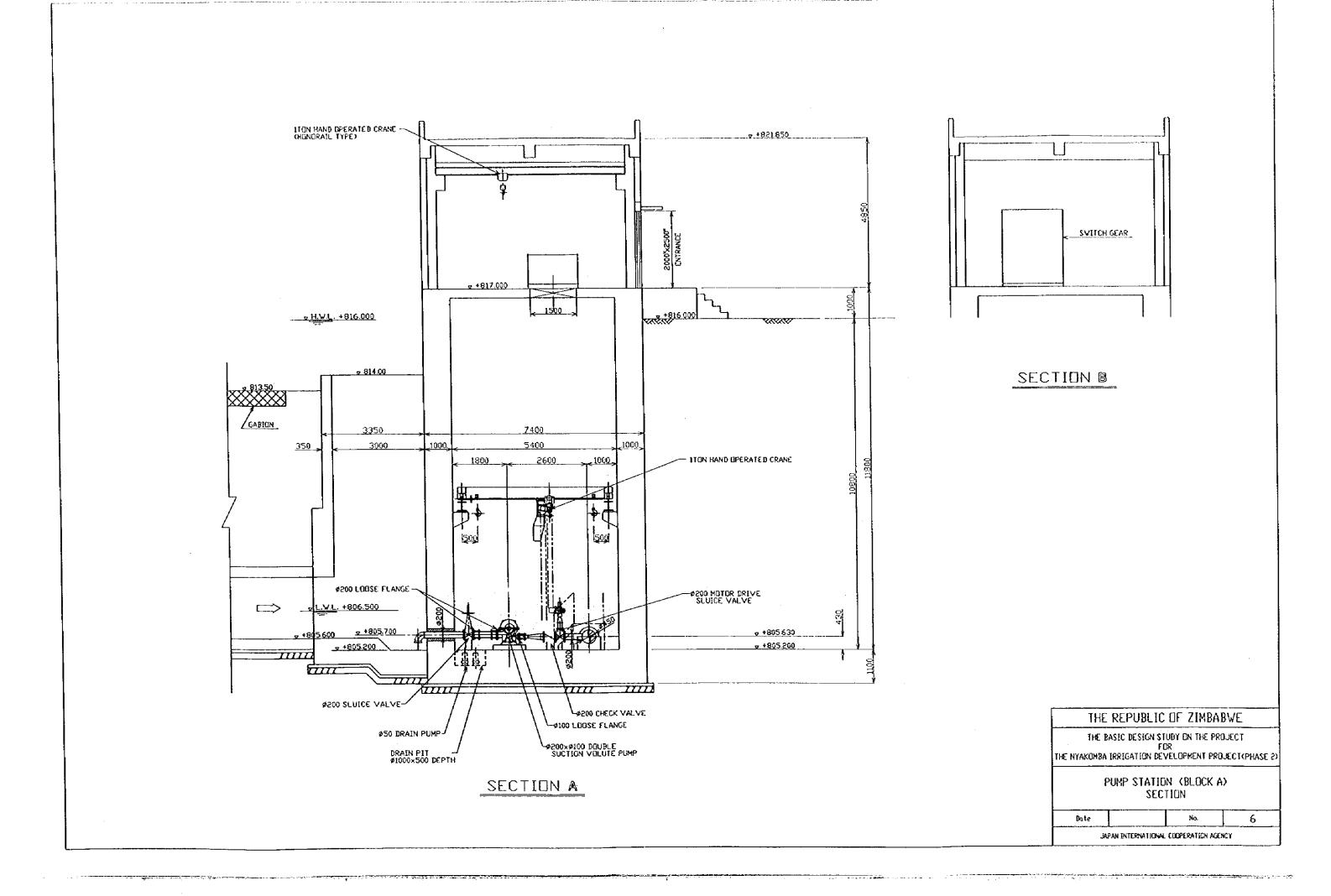
PUMP STATION A

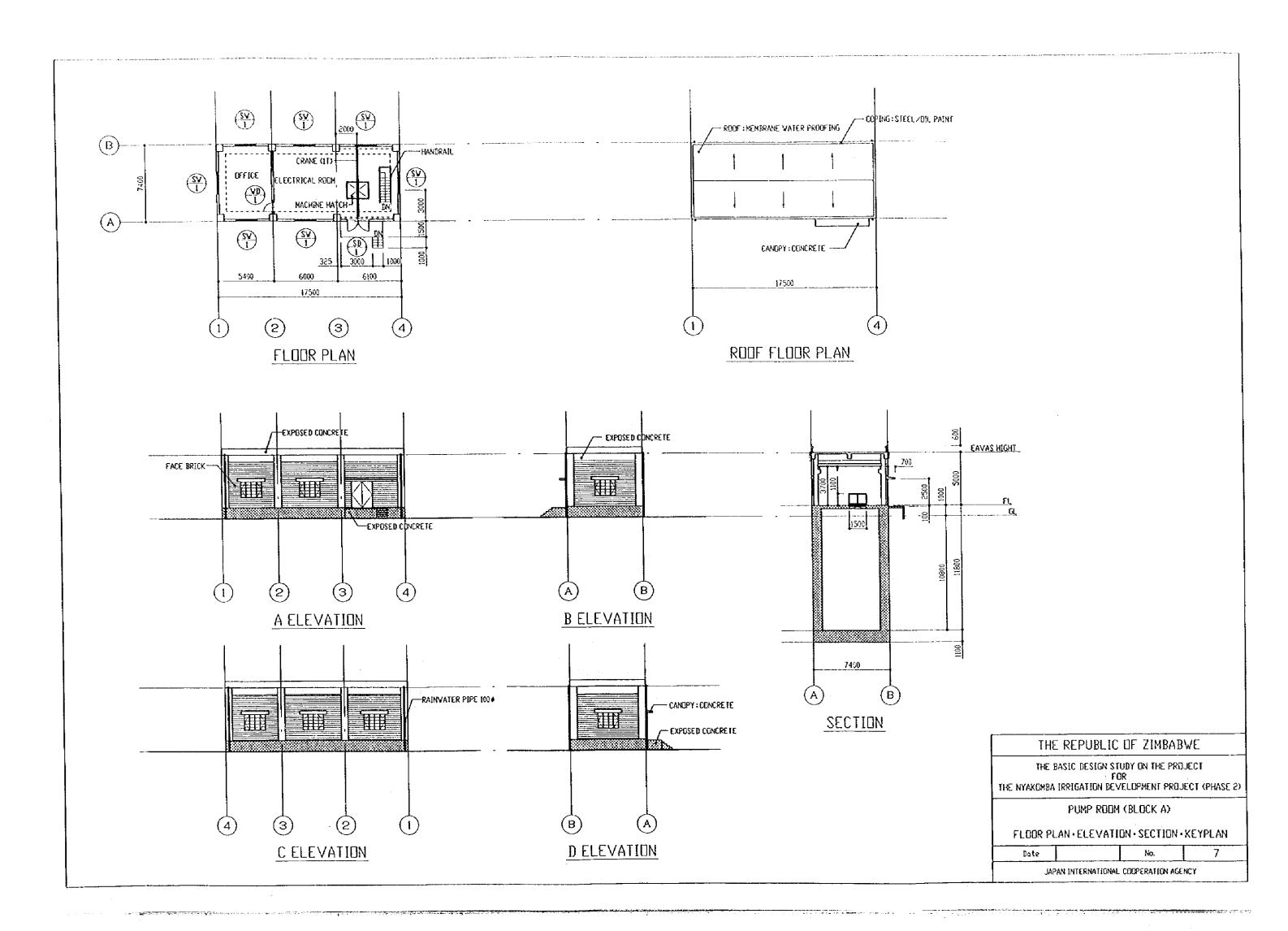
SECTION

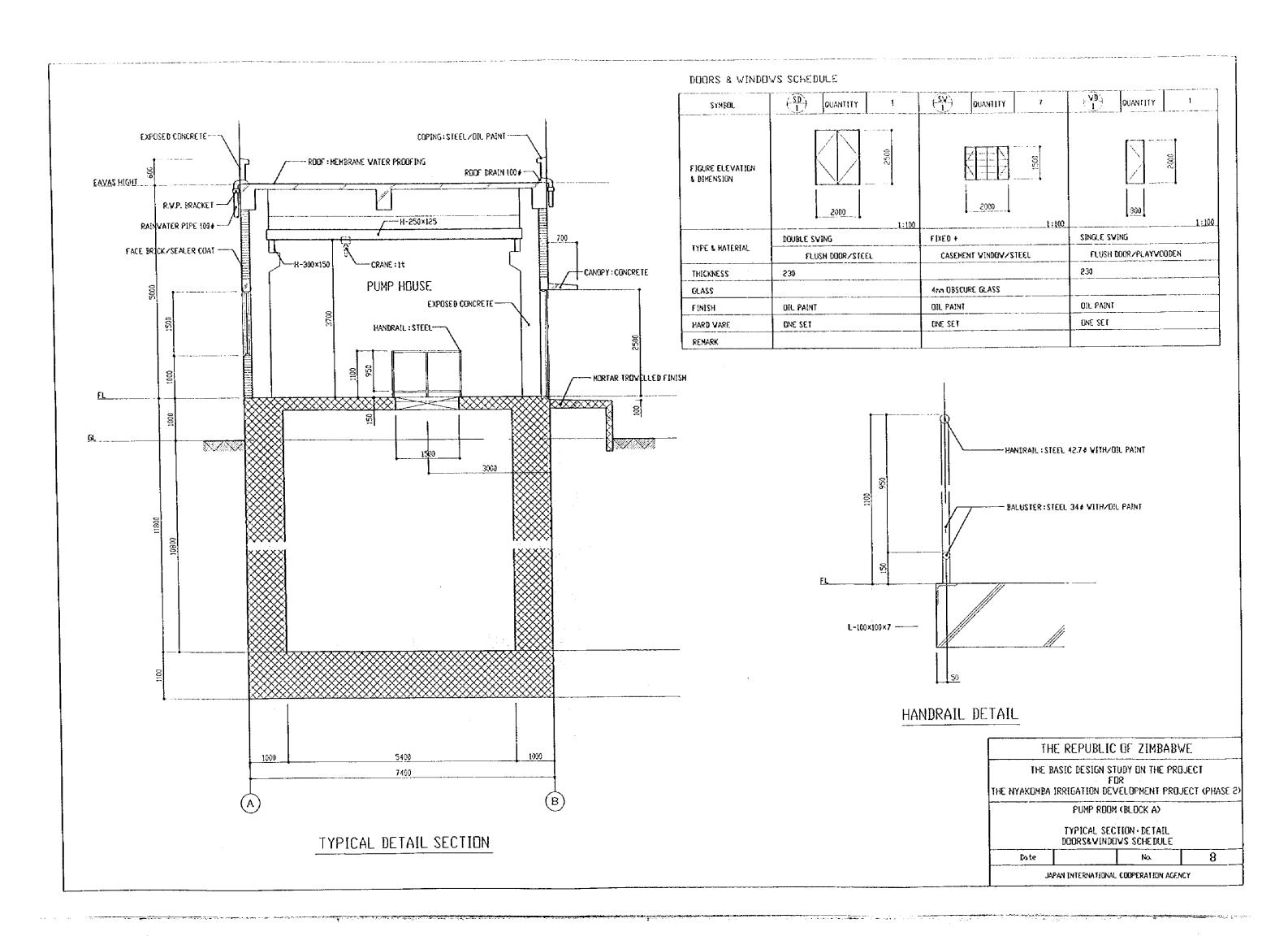
Date No. 4

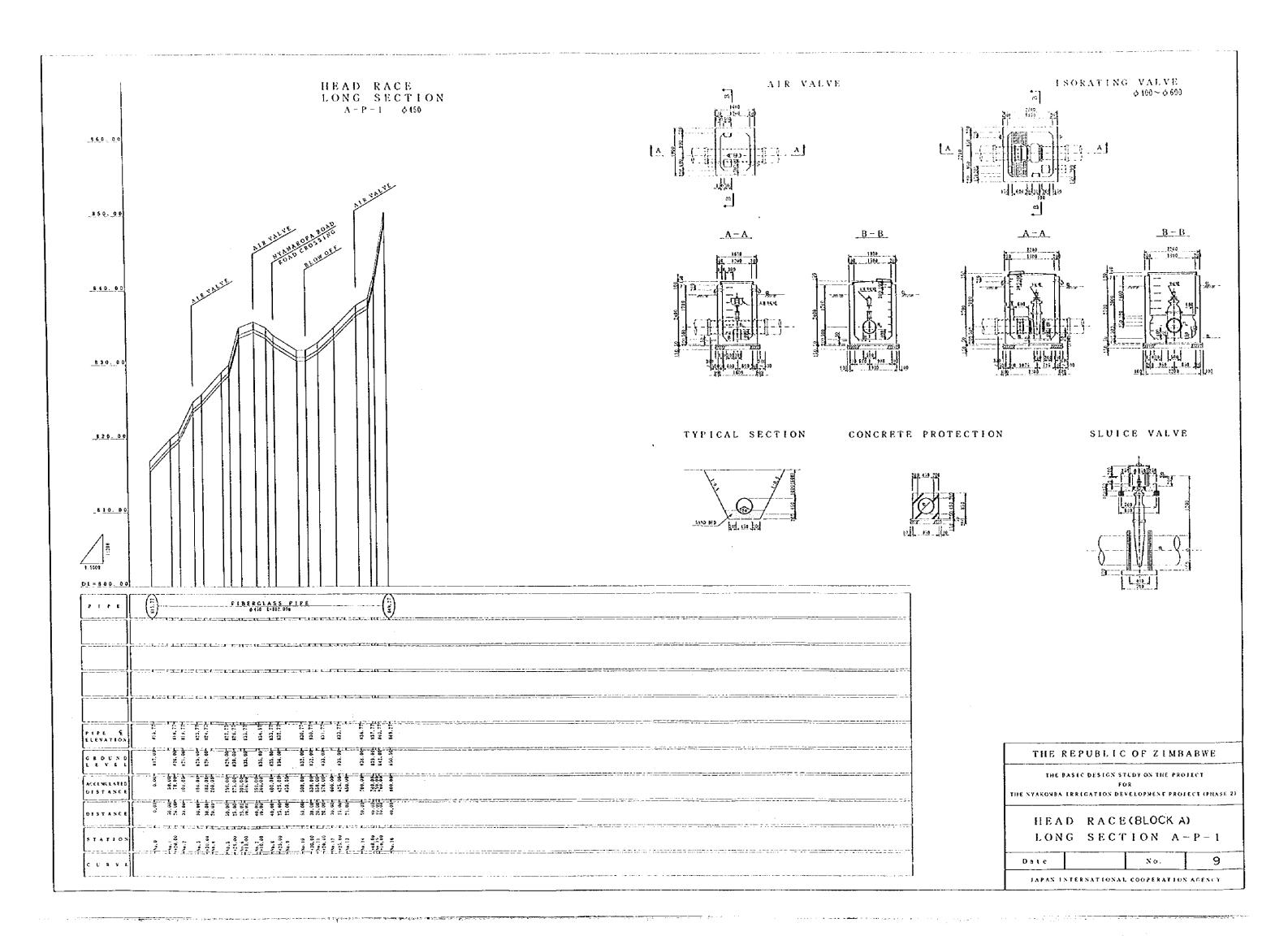
JAPAN INTERNATIONAL COOPERATION AGENCY



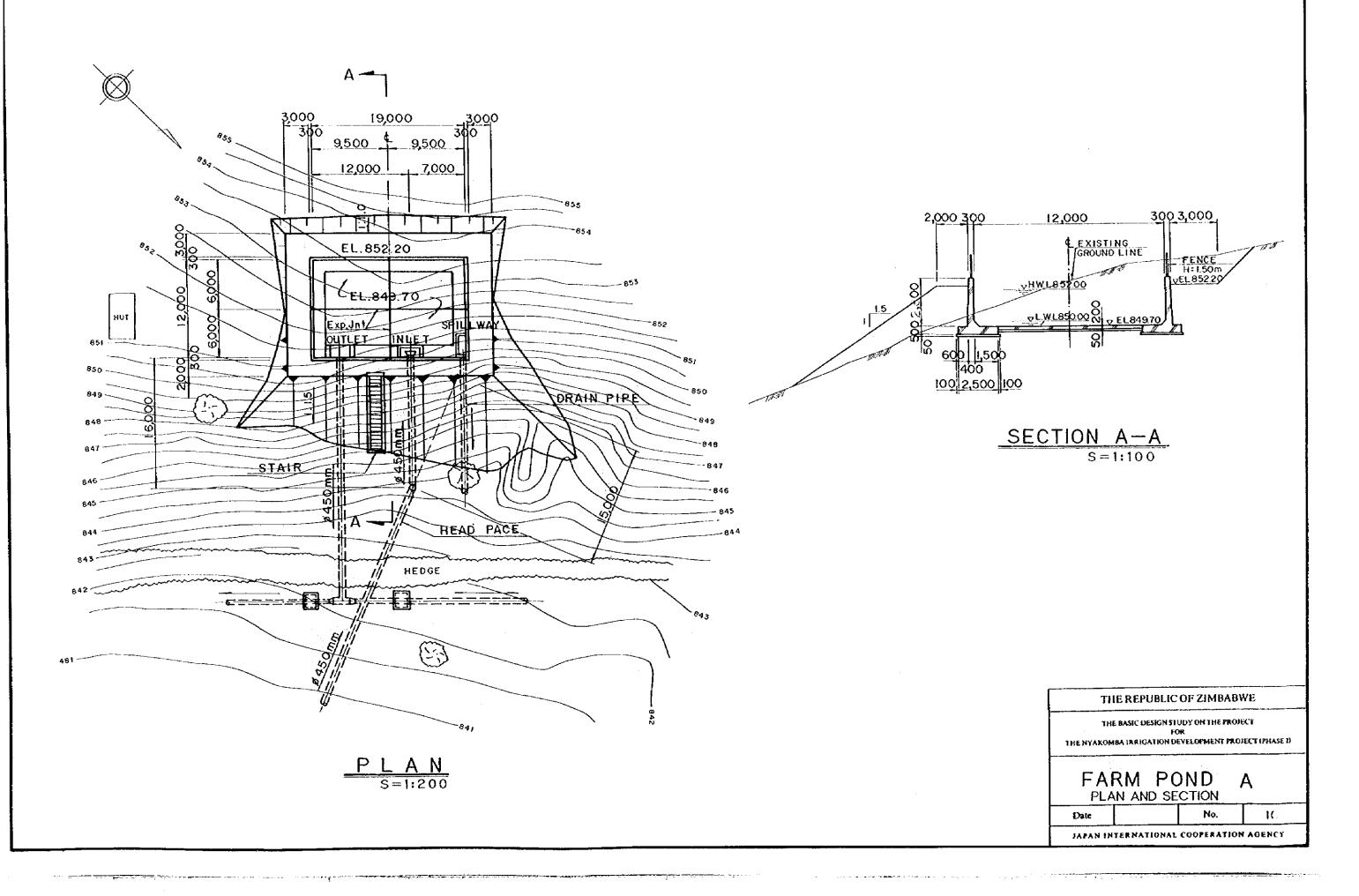


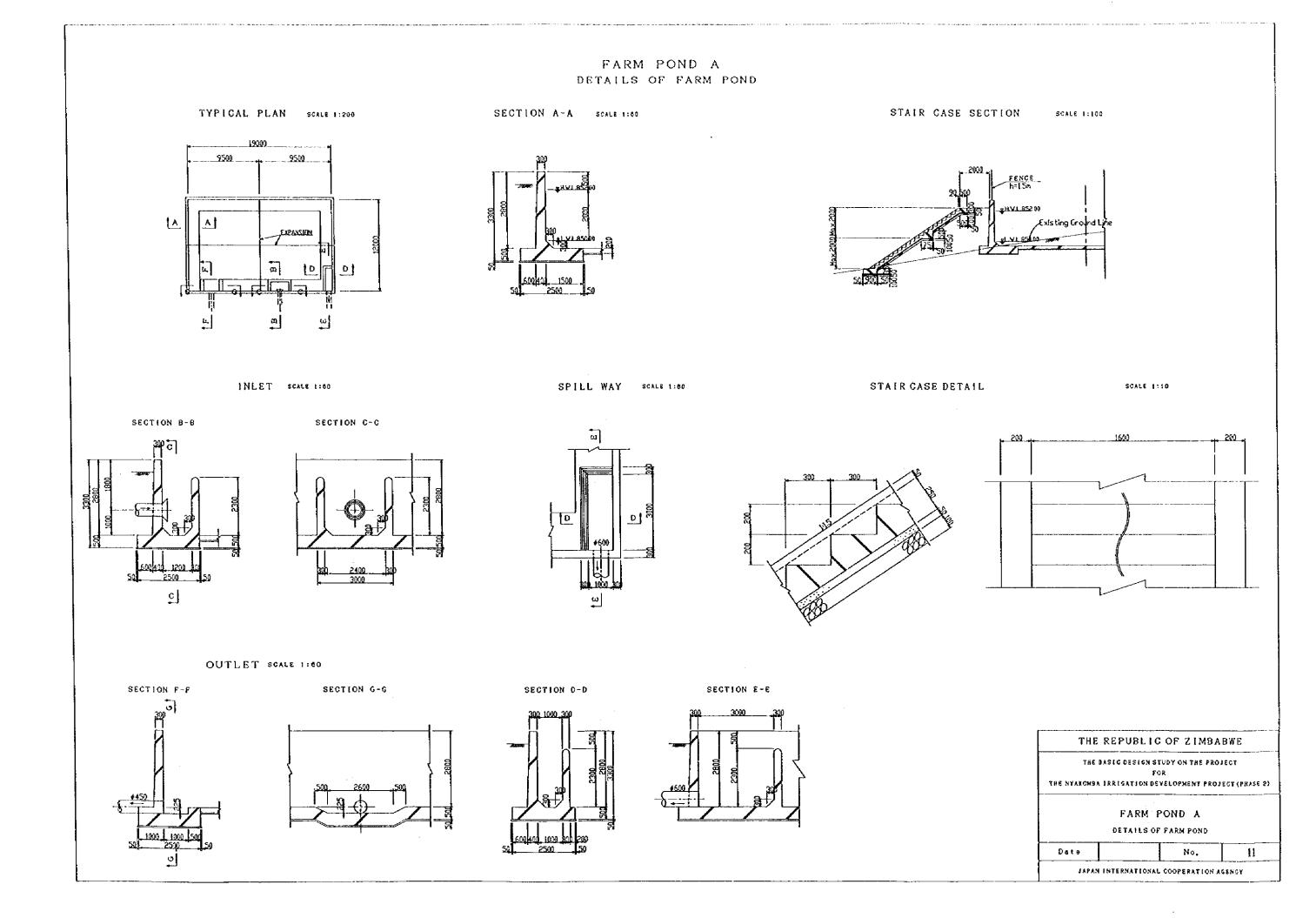






FARM POND A



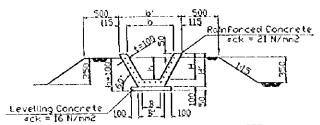


IRRIGATION FACILITIES (1/3)

SCALE 1:50

IRRIGATION CANAL

TYPICAL SECTION

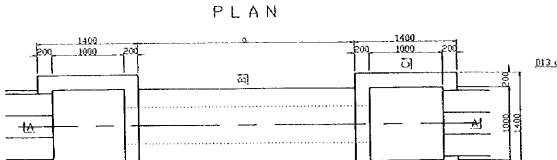


[В	B'	ю	b'	н	H'	h
Type A	300	415	762	992	400	500	350
Type B	250	364	654	894	350	450	300
Type C	500	314	546	776	300	400	250

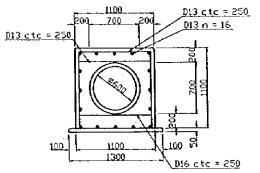
REINFORCEMENT SHALL BE WELDED MESHED WIRE #6mm (MESH 100 × 100)

ROAD CROSS SIPHON

<u>)</u>

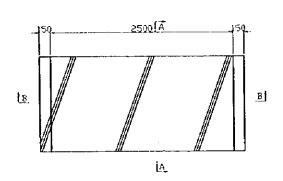




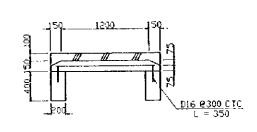


ENTRANCE WORKS

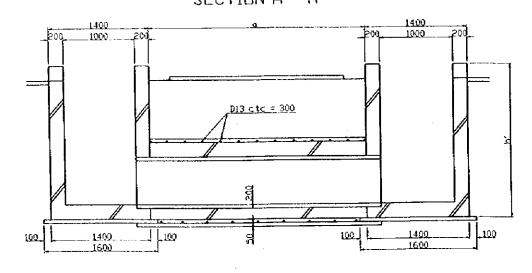
PLAN



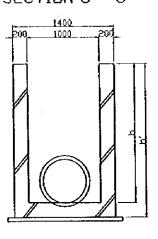
SECTION A - A



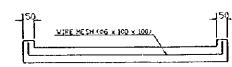
SECTION A - A



SECTION C - C



SECTION B - B



THE REPUBLIC OF ZIMBABWE

THE BASIC DESIGN STUBY ON THE PROJECT FOR THE NYAKOMBA IRRIGATION DEVELOPMENT PROJECT(PHASE 2)

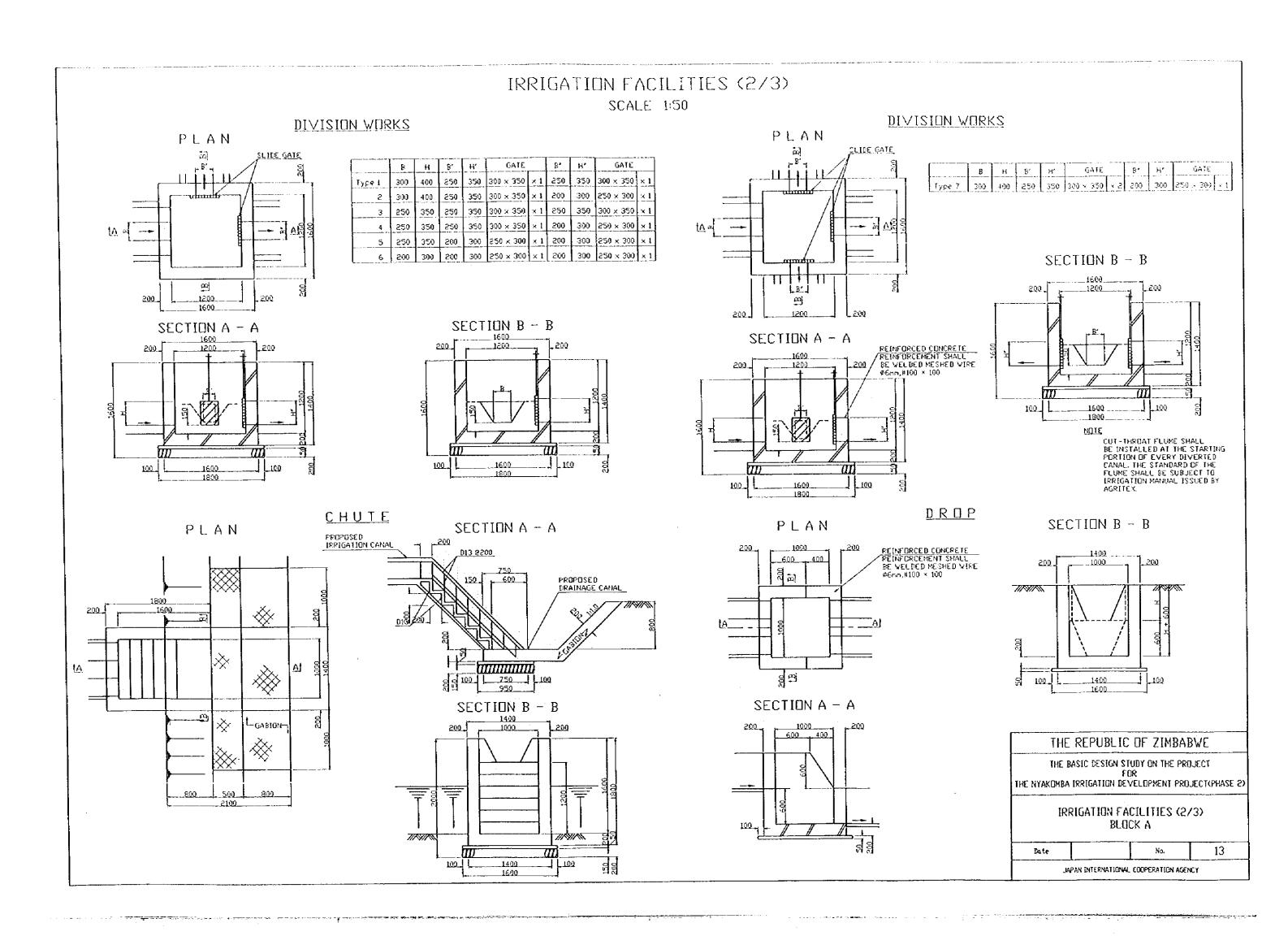
IRRIGATION FACILITIES (1/3) BLOCK A

12 Date

JAPAN INTERNATIONAL COOPERATION AGENCY

Road Cross Stohon (Irrigation)

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Type 1	3000	600	1850	2100	50
Type 2	7000	600	1850	2100	50
Туре 3	10000	600	1850	2100	50
Type 4	15000	600	2159	2400	50
Type 5	19000	600	2150	2400	50



IRRIGATION FACILITIES (3/3) SCALE 1:50

DISCHARGE CHAMBER

PLAN

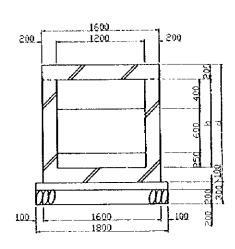
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A)

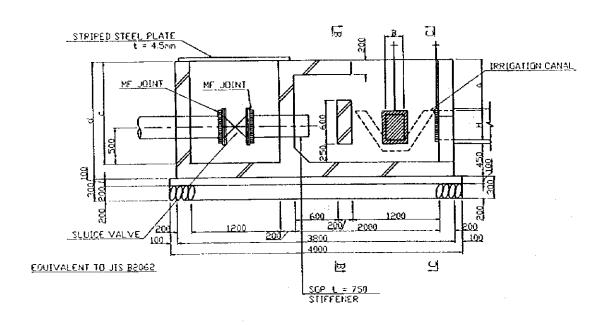
A)

SLIDE GAIE

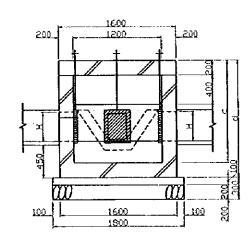
SECTION B - B



SECTION A - A



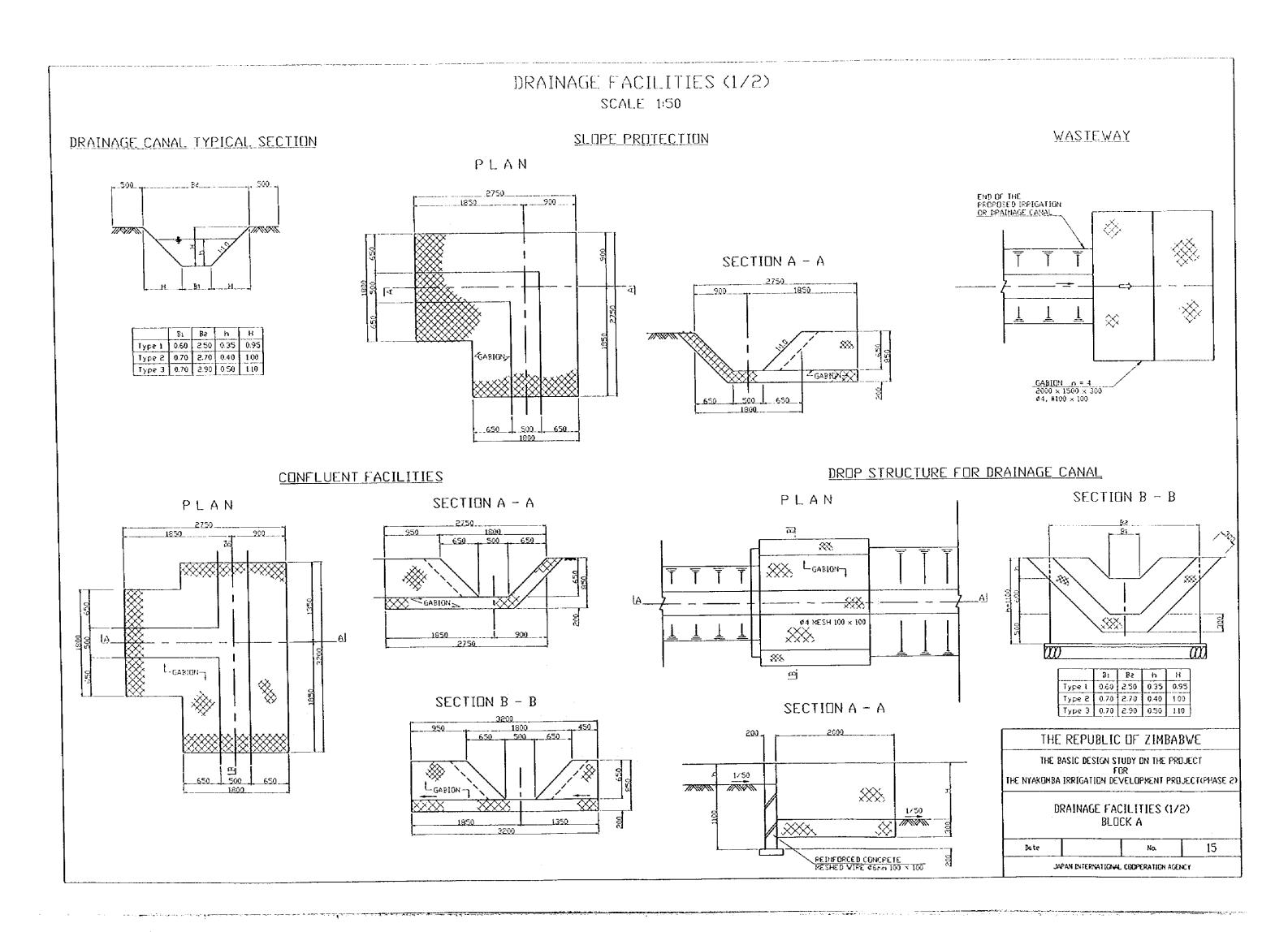
SECTION C - C



TYPE	B-1	H-1	8-5	H-5	B-3	H-3	SLUICE VALVE	ME JOINT	
Type 1	S00	300	200	300	-		\$200	ø200	
Type 2	200	300	-	Γ	-	_	ø200	ø200	
Type 3	250	350	200	300	-	-	4200	\$200	
Type 4	250	350	-	-	-		ø300	\$300	
Type 5	390	400		-	-	_	4300	4300	

note: To a from a shall be adjusted to the site ground levels width of Slide Gate should be wider than bottom of canal by 5 cm.

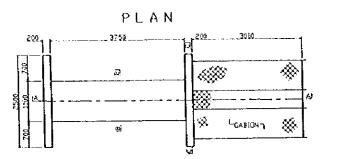
	Japan internati	ONAL COOPERATION	AGENCY
Date		No.	14
1		FACILITIES LOCK A	(3/3)
		N STUDY ON THE FOR DEVELOPMENT	PROJECT PROJECT(PHASE 2
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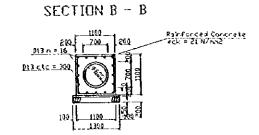


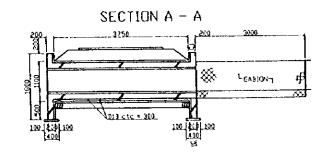


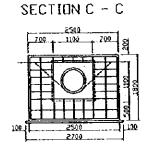
SCALE 1:100

ROAD CROSS CULVERT

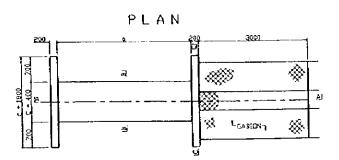


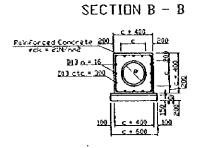


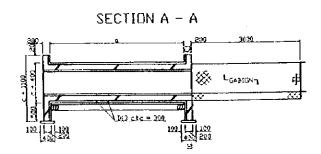


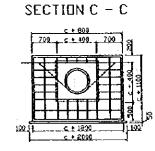


CANAL CRIISS CULVERT [ENTRANCE WORKS]





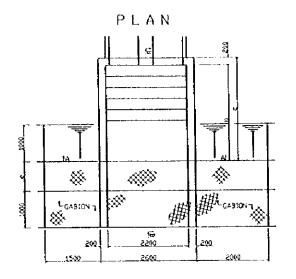


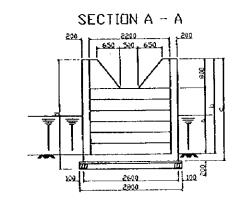


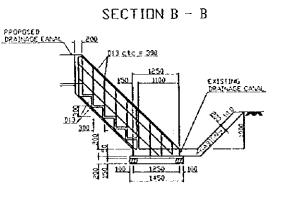
Canal Cross Culvert (Brainage) (Entrance Vorks)

	Road Type	Q.	ø	٠
Type 1	b = 3	3000	600	700
Type 2	b = 5	5000	600	700
Type 3	b=5	5000	1000	1180
Type 4	b = 5	5000	1200	1420

<u>CHUTE</u>







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	o.	ь	c	d
Type 1	1800	2600	2800	3000
Type 2	12000	13800	14000	14200

THE REPUBLIC OF ZIMBABWE

THE BASIC DESIGN STUDY ON THE PROJECT FOR THE NYAKOMBA IRRIGATION DEVELOPMENT PROJECT(PHASE 2)

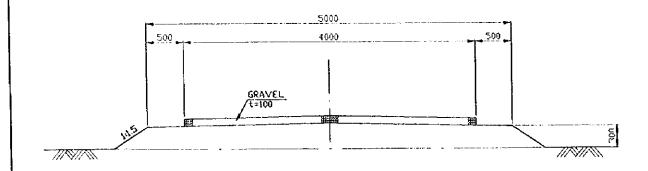
DRAINAGE FACILITIES (2/2)
BLOCK A

Date	No.	16

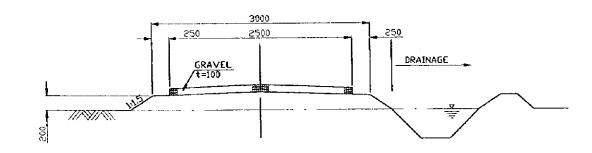
JAPAN INTERNATIONAL COOPERATION AGENCY

FARM ROAD TYPICAL SECTION

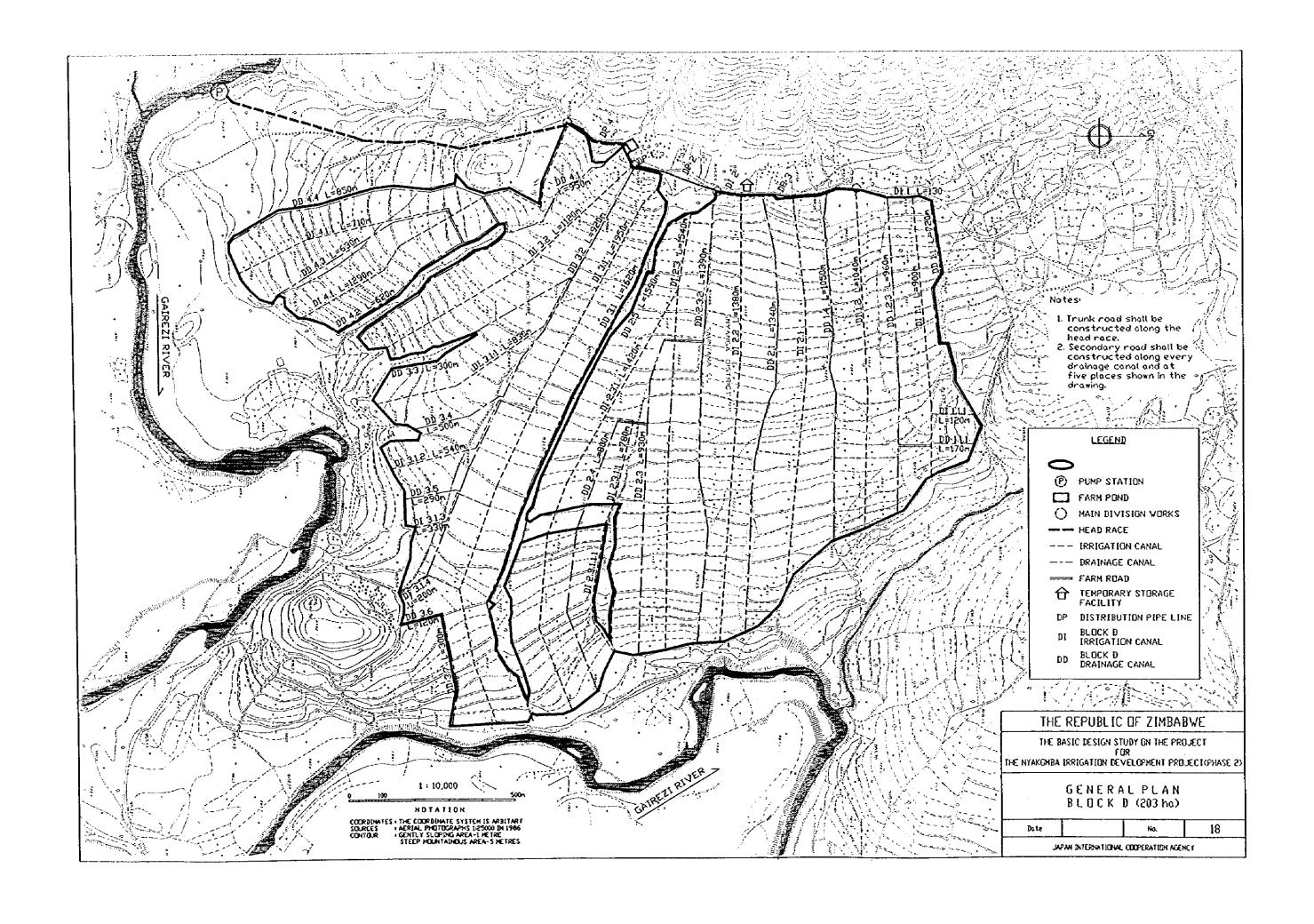
TRUNK ROAD

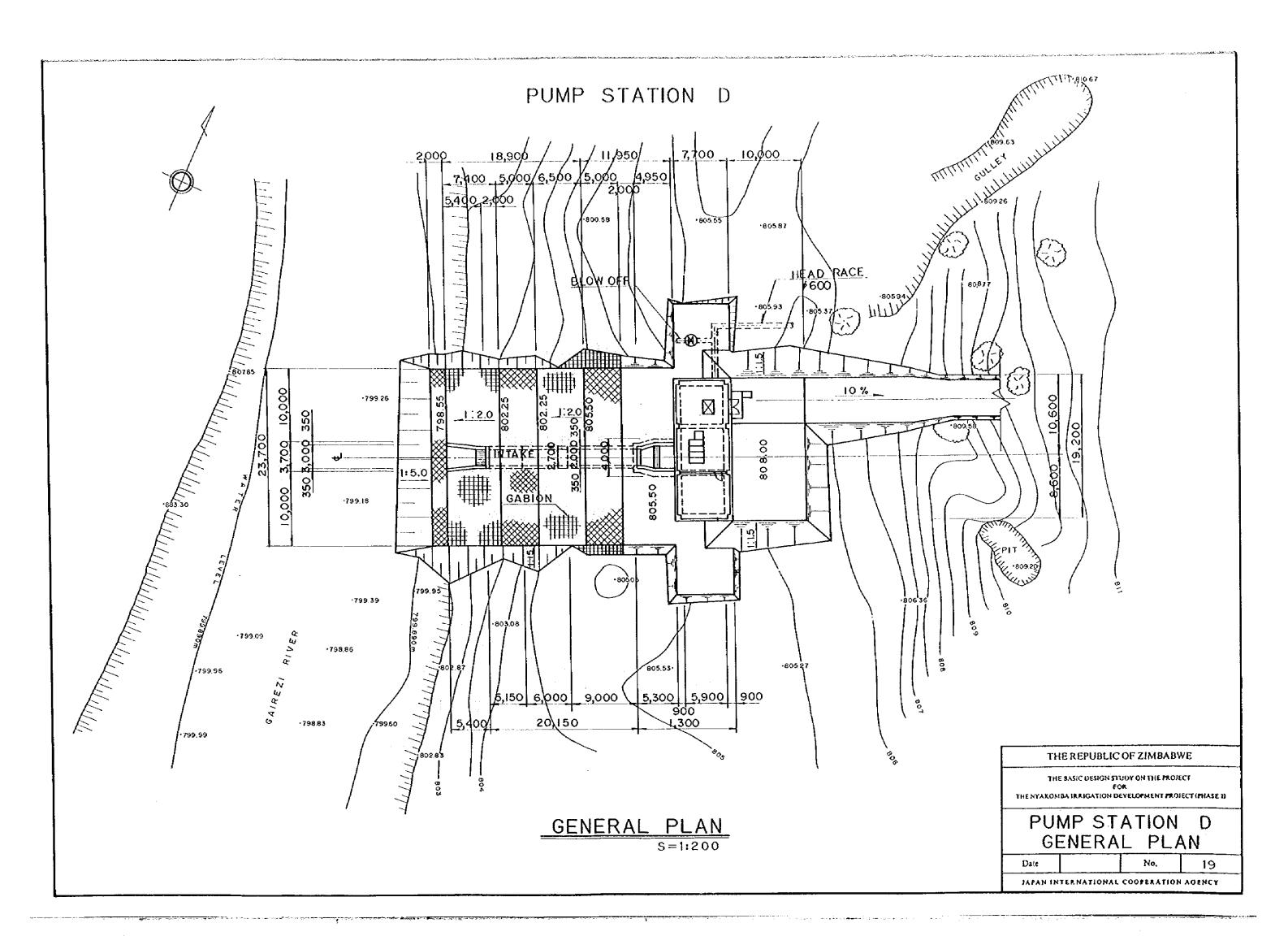


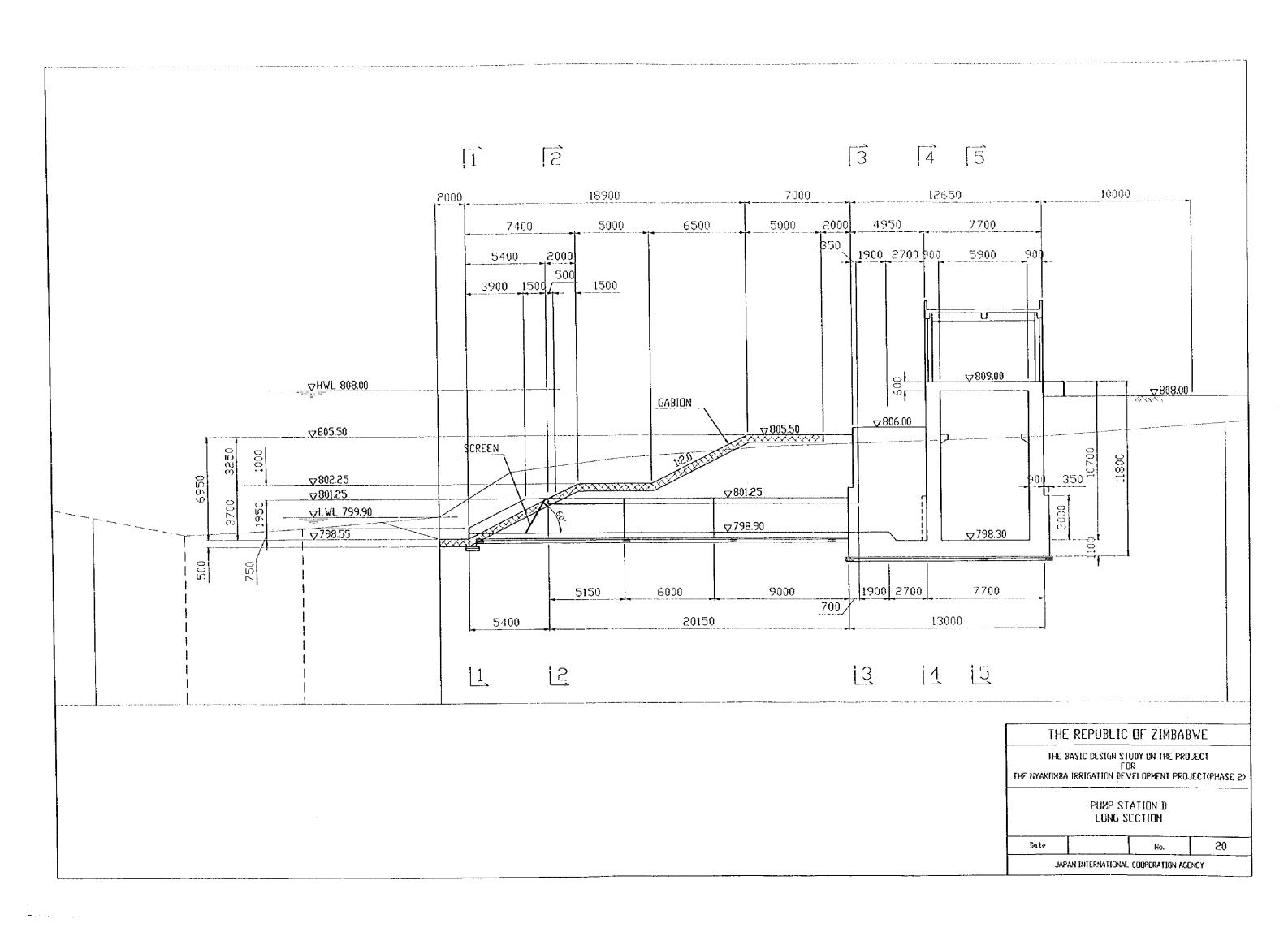
SECONDARY ROAD



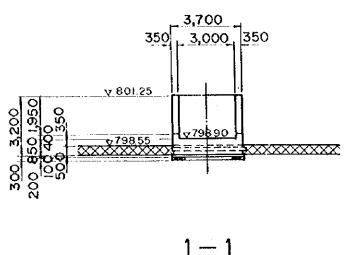
THE REPUBLIC OF ZIMBABWE THE BASIC DESIGN STUDY ON THE PROJECT FOR THE NYAKOMBA IRRIGATION DEVELOPMENT PROJECT(PHASE 2) FARM ROAD TYPICAL SECTION BLOCK A Date No. 17 JAPAN INTERNATIONAL COOPERATION AGENCY

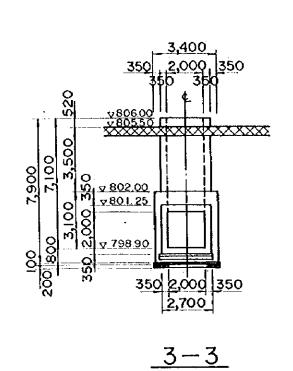


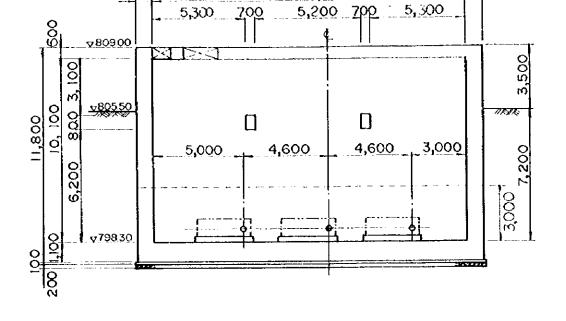




PUMP STATION D SECTION S=1:100

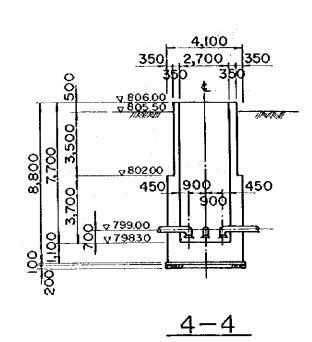


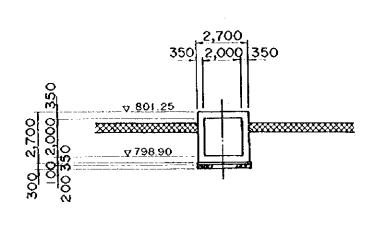


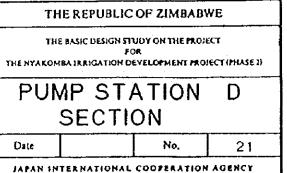


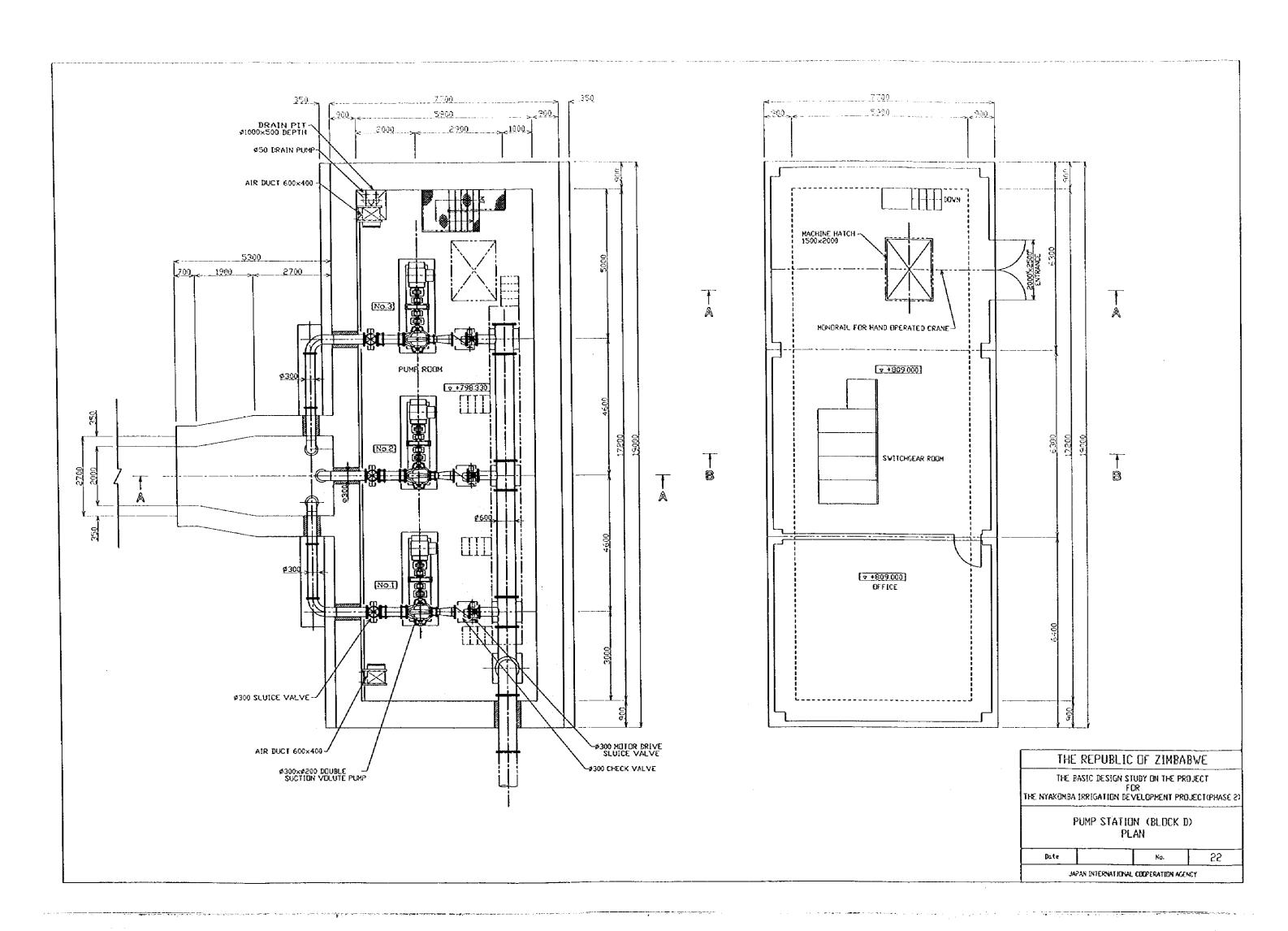
19,000 17,200

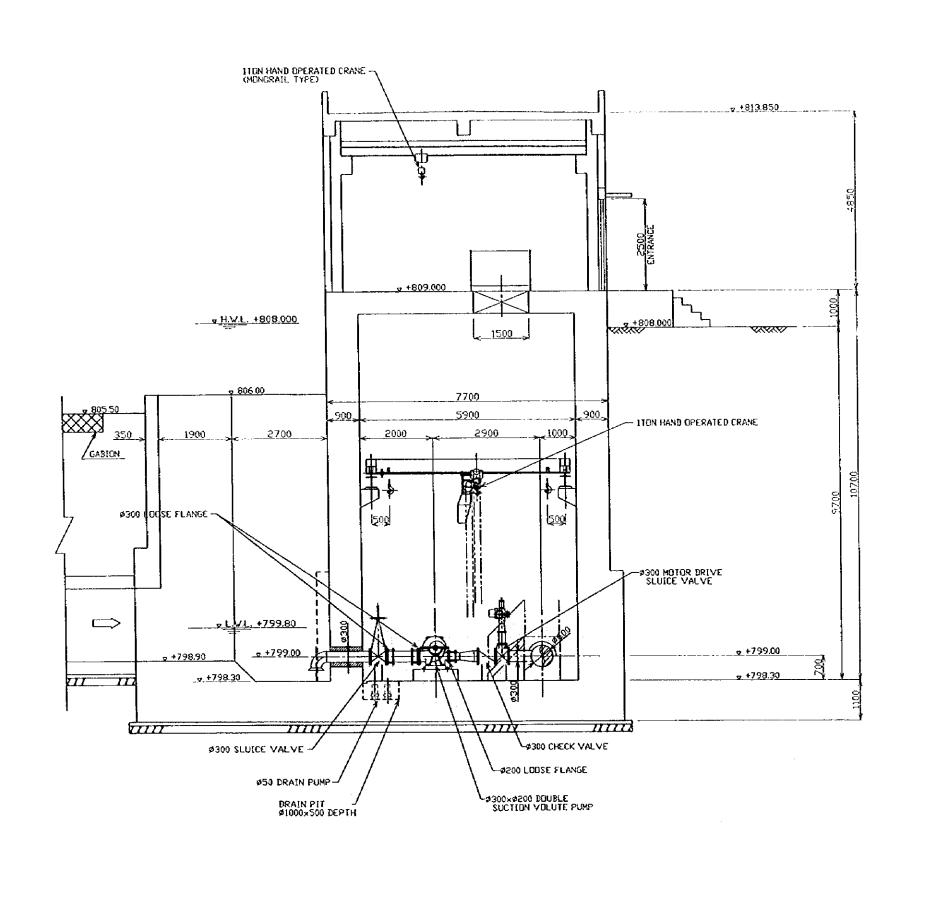
<u>5-5</u>

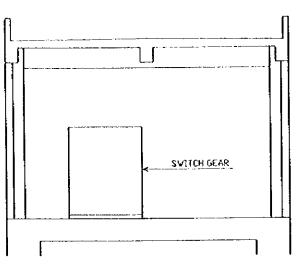












SECTION 8

THE REPUBLIC OF ZIMBABWE

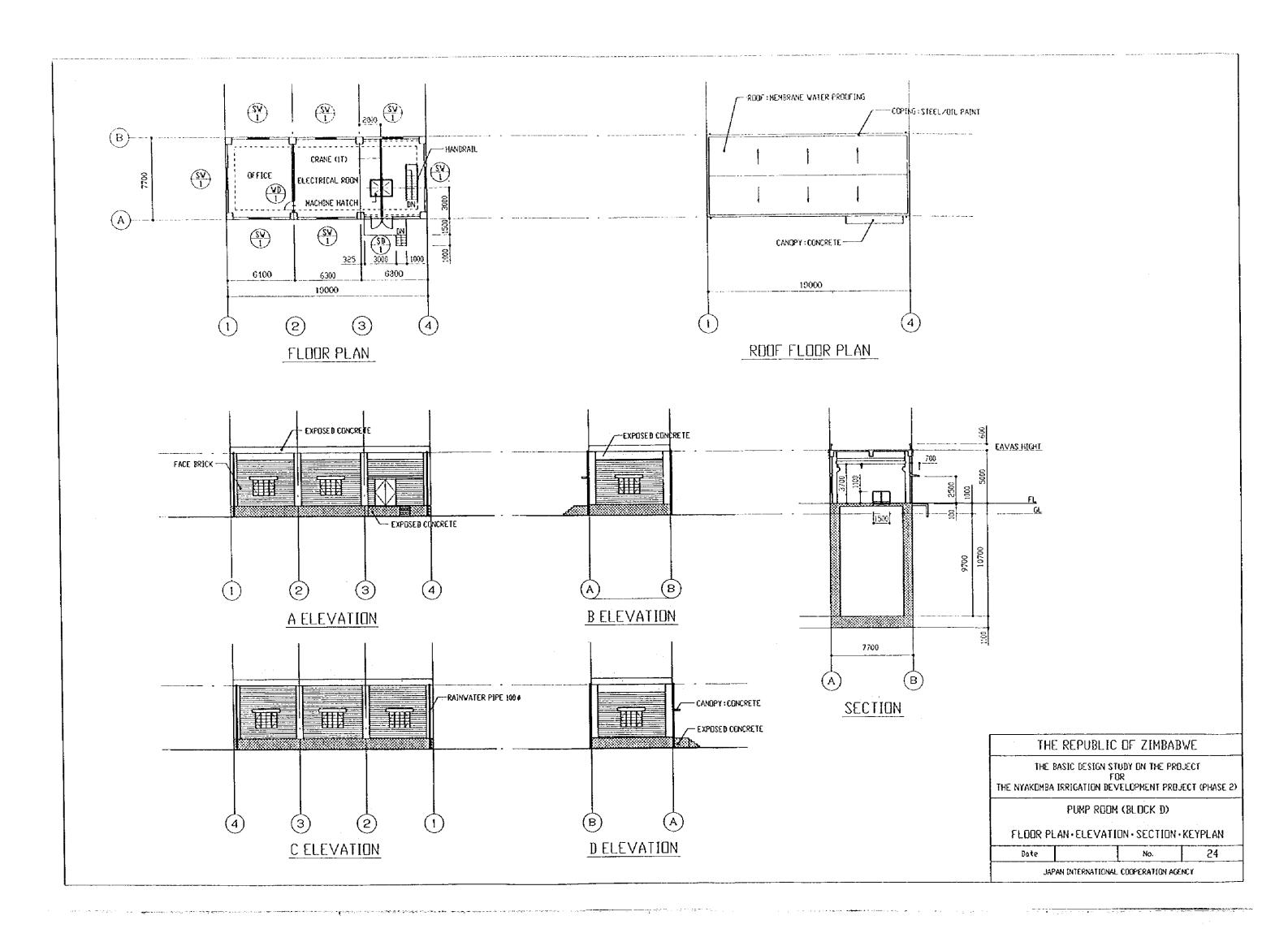
THE BASIC DESIGN STUDY ON THE PROJECT
FOR
THE NYAKOMBA IRRIGATION DEVELOPMENT PROJECT(PHASE 2)

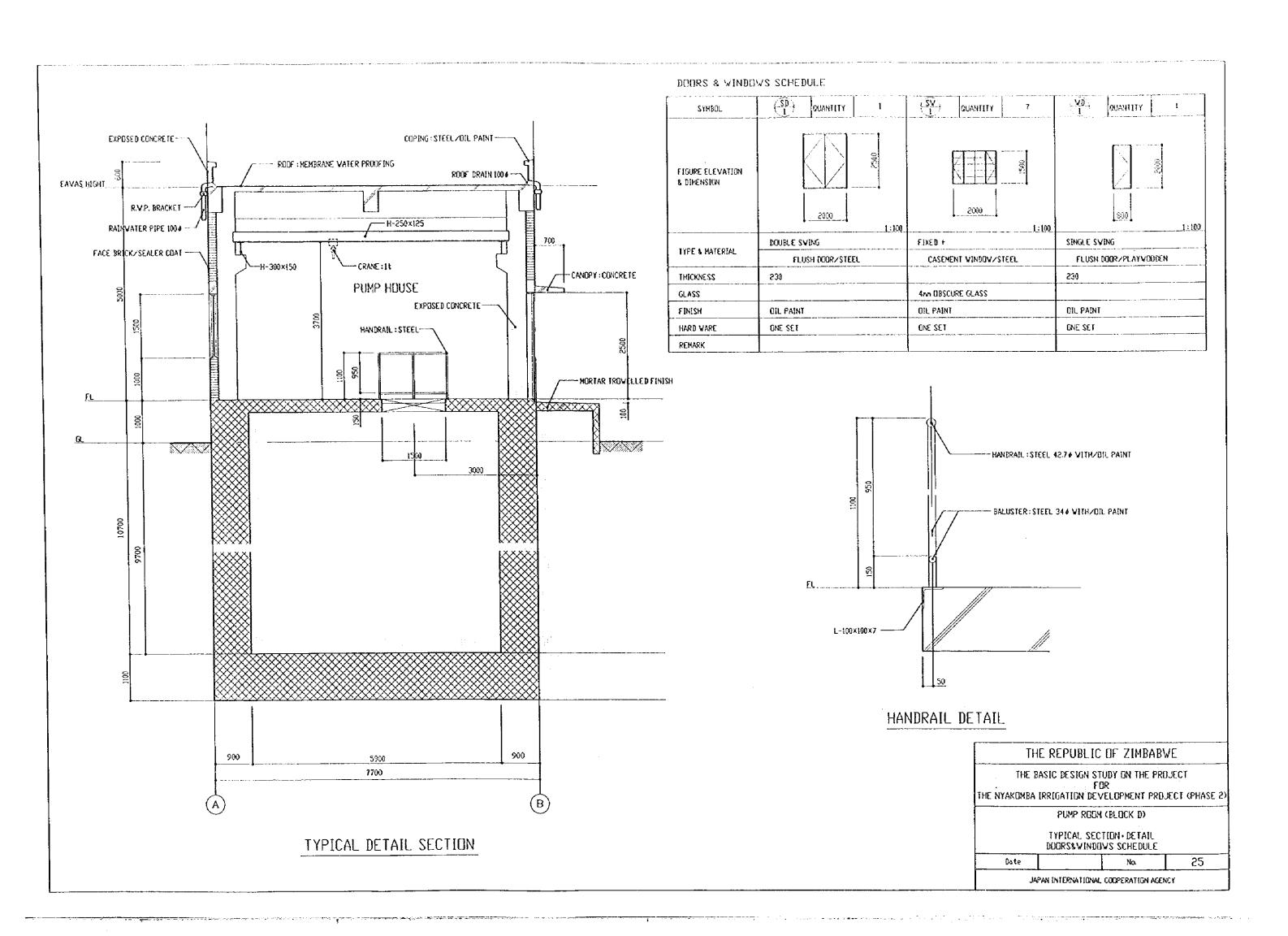
PUMP STATION (BLOCK D)
SECTION

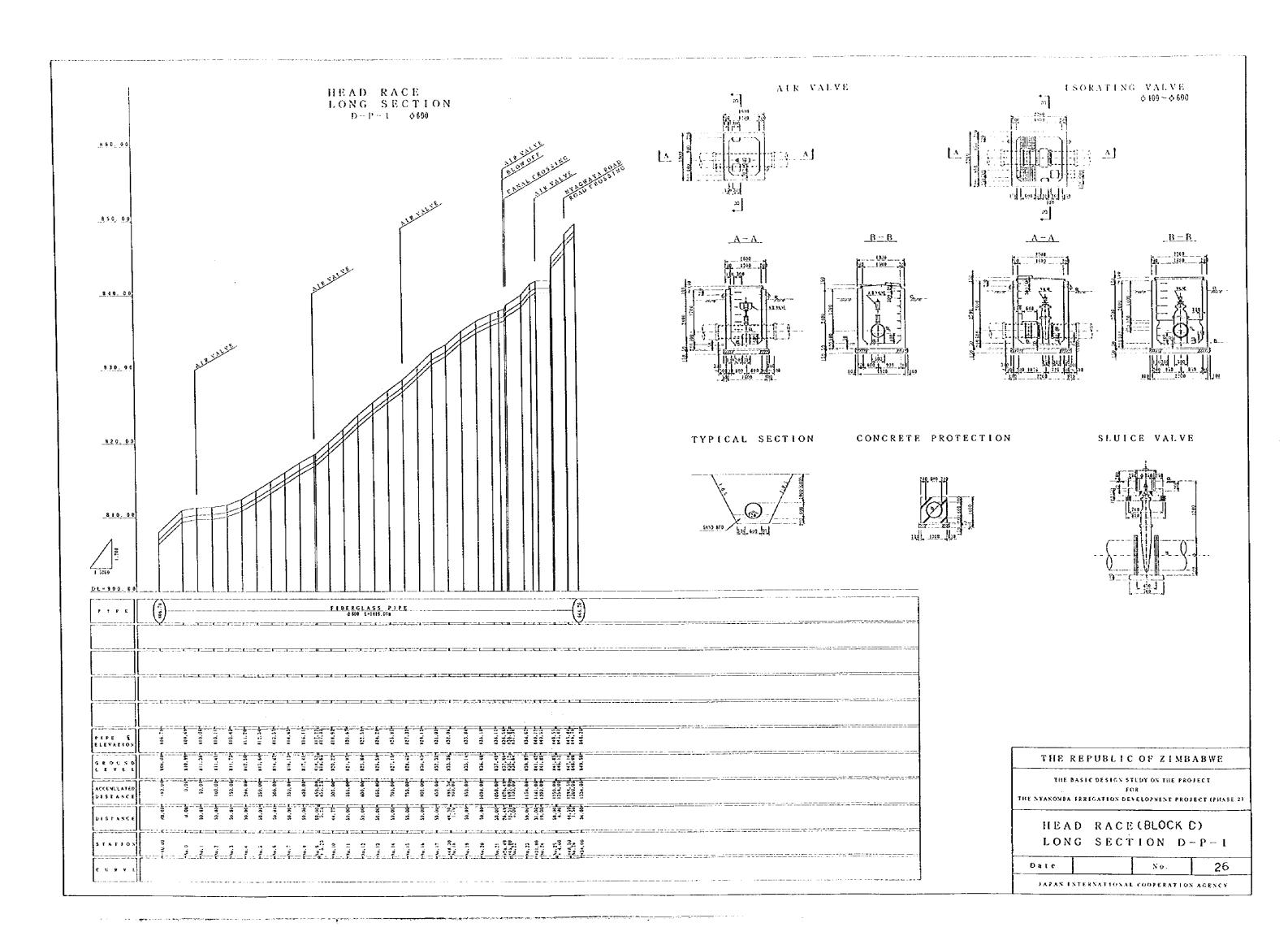
Date No. 23

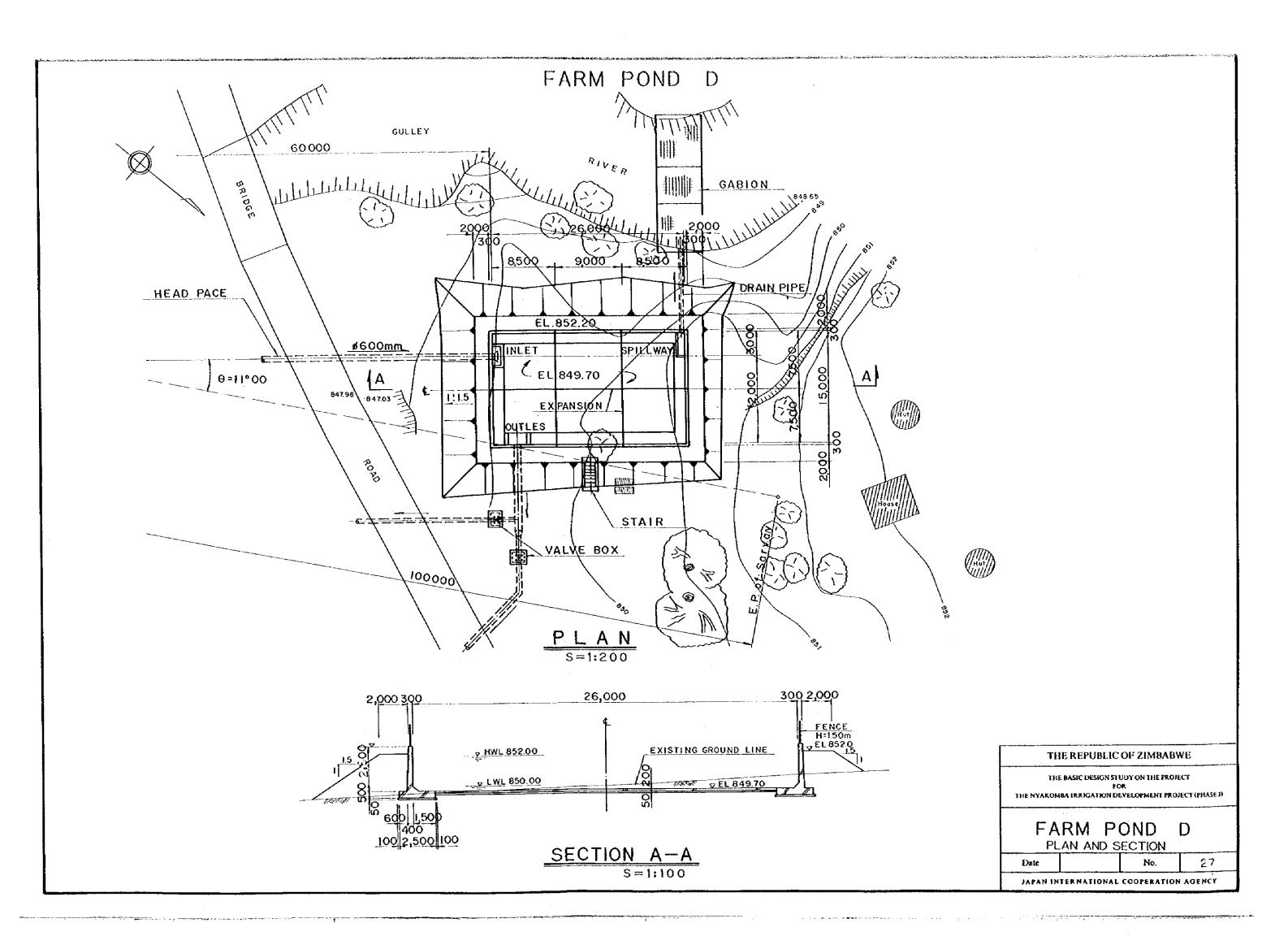
JAPAN INTERNATIONAL COOPERATION AGENCY

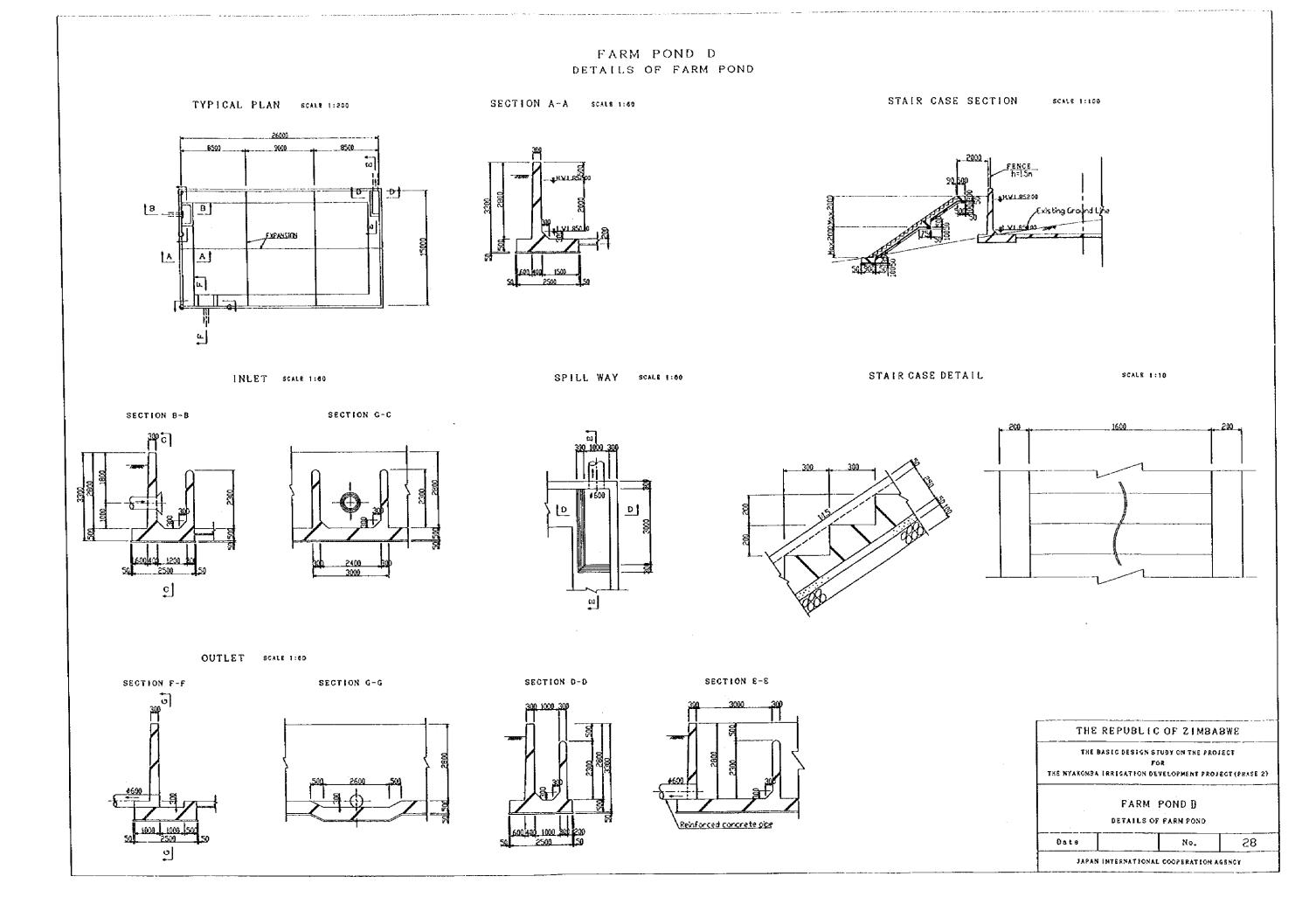
SECTION A









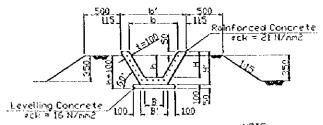


IRRIGATION FACILITIES (1/3)

SCALE 1:50

IRRIGATION CANAL

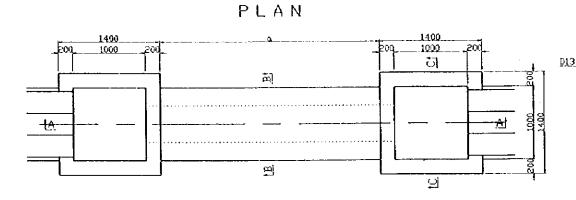
TYPICAL SECTION

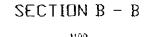


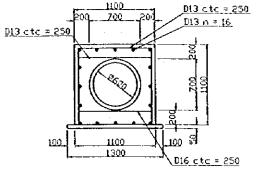
	В	B'	b	lo"	Н	H′	h
Type A	300	415	762	392	400	500	350
Type B	250	364	654	884	350	450	300
Type C	200	314	546	776	300	400	250

REINFORCEMENT SHALL BE WELDED HESHED WIRE Ø6mm (MESH 100 x 100)

ROAD CROSS SIPHON

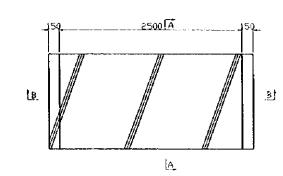




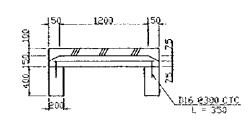


ENTRANCE WORKS

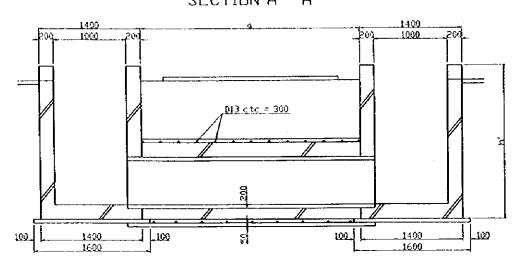
PLAN



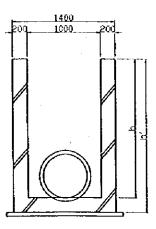
SECTION A - A



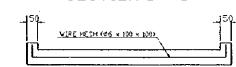
SECTION A - A



SECTION C - C



SECTION B - B



THE REPUBLIC OF ZIMBABWE

THE BASIC DESIGN STUDY ON THE PROJECT FOR THE NYAKOMBA IRRIGATION DEVELOPMENT PROJECT(PHASE 2)

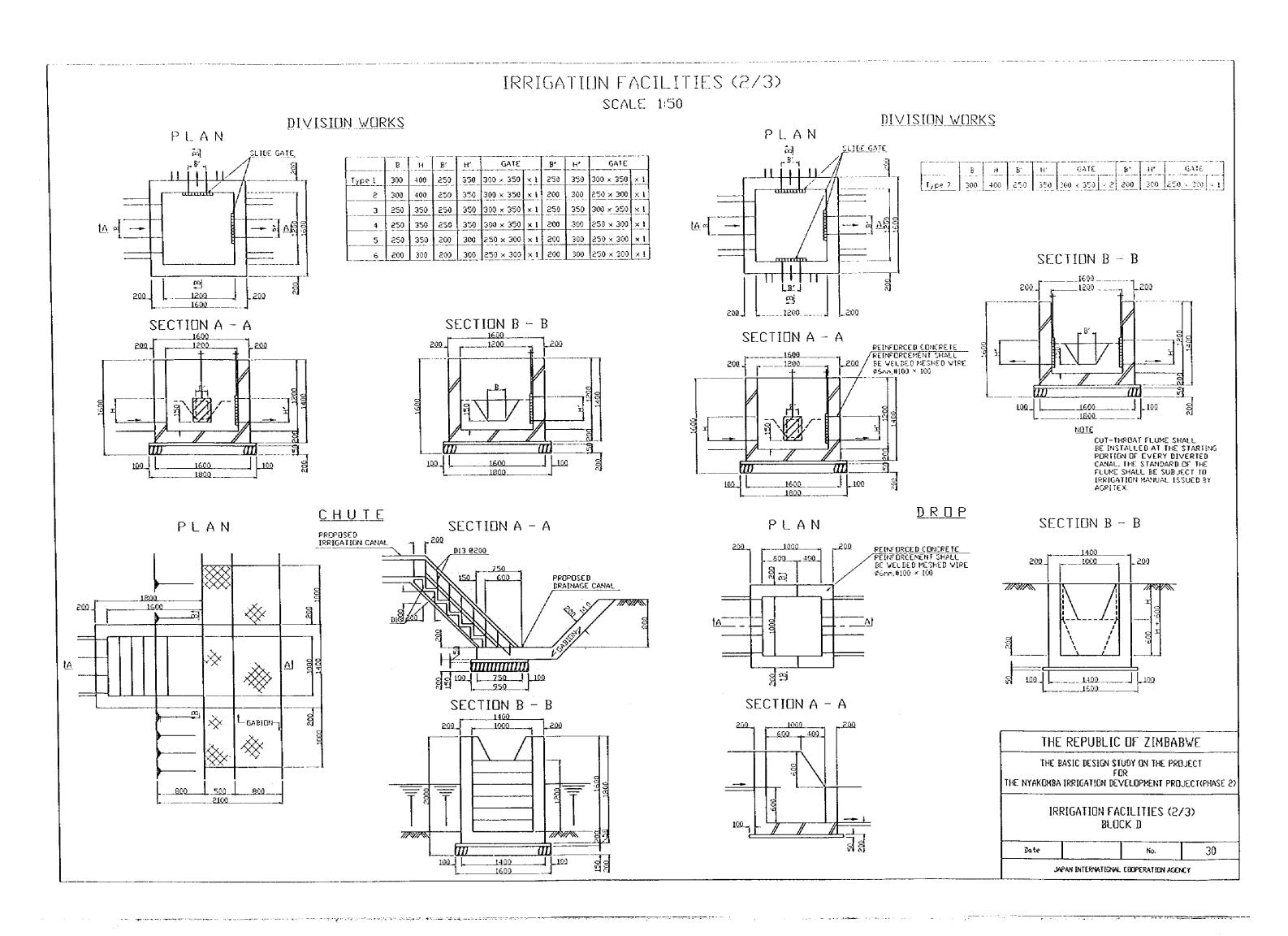
IRRIGATION FACILITIES (1/3)
BLOCK D

29

JAPAN INTERNATIONAL COOPERATION AGENCY

Road Cross Stphon (Irrigation)

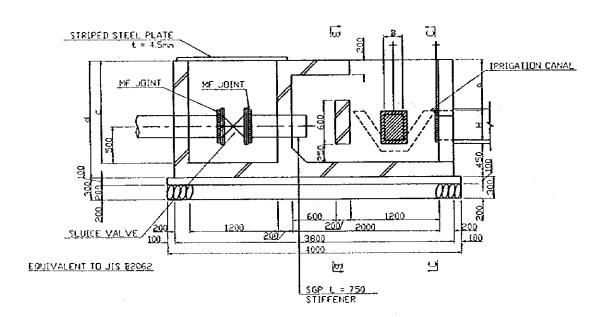
	1.000 01 00	3 3.pi.o			
	a	lo	h	h'	t (
Type 1	3000	600	1850	2100	50
Type 2	7000	600	1850	2100	50
Type 3	10000	600	1850	2100	50
Type 4	15009	600	2150	2400	50
Type 5	19000	600	2150	2400	50



IRRIGATION FACILITIES (3/3) SCALE 1:50

DISCHARGE CHAMBER

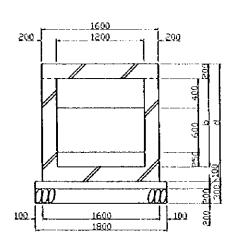
SECTION A - A



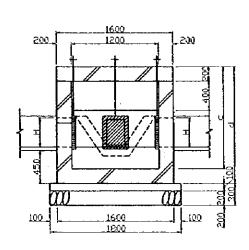
TYPE	B-1	H-1	B-5	H-2	B-3	H-3	SLUICE VALVE	ME JOINT
Type 1	250	350	250	350		-	\$ 300	ø300
Type 2	250	350	,		-	_	≠200	\$500
Type 3	300	400	250	350	-		ø300	ø300
Type 4	300	400	300	400	_	T -	ø300	∳ 300

nate: To a from d shall be adjusted to the site ground levels *idth of Slide Gate should be wider than bottom of canal by 5 cm.

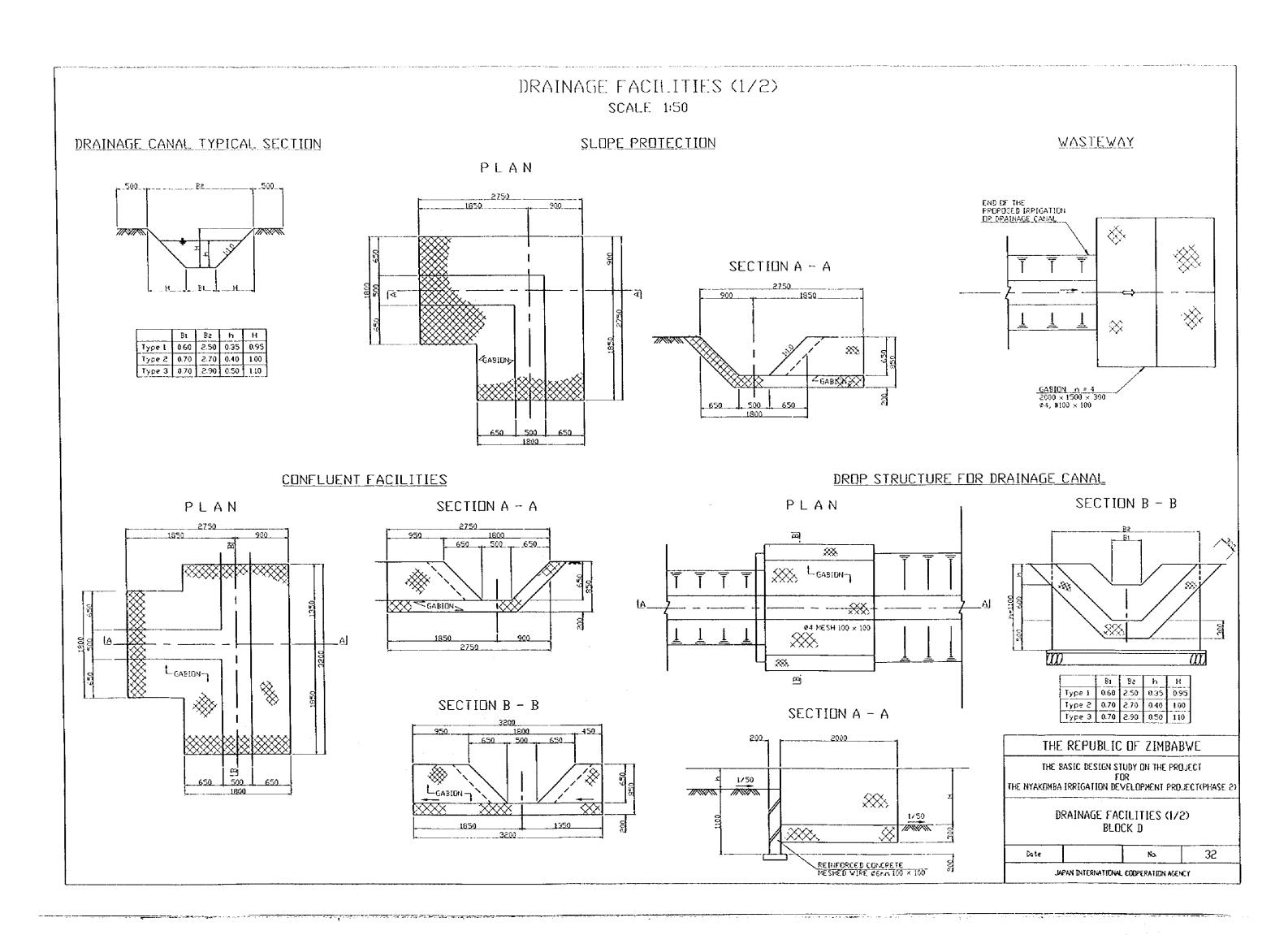
SECTION B - B

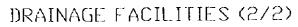


SECTION C - C



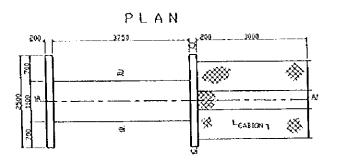
THE REP	PUBLIC OF ZIMBABW	<u>E</u>
THE BASIC D	OLDRA 3HT NO YOUTS NOISE FOR	CT .
THE NYAKOMBA IRRIGA	ATION DEVELOPMENT PROJEC	(S 32AHP)T
IRRIGAT	ION FACILITIES (3/3) BLOCK D	
Bate	No.	31
JAPAN INTI	ERNATIONAL COOPERATION AGENCY	

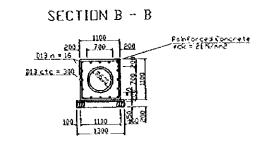


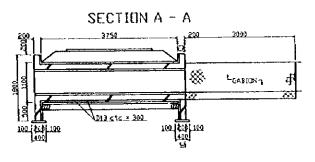


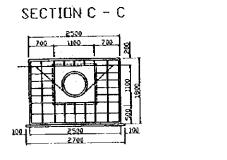
SCALE 1/100

RNAD CRUSS CULVERT

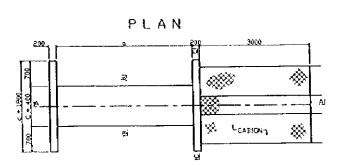


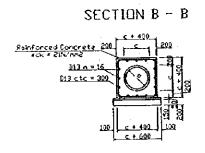


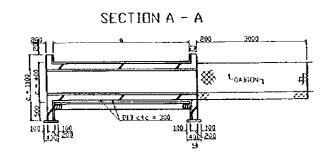


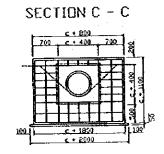


CANAL CROSS CULVERT (ENTRANCE WORKS)





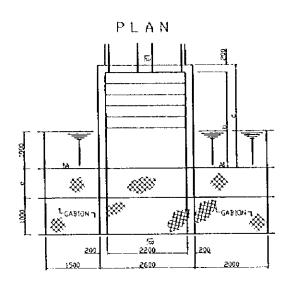


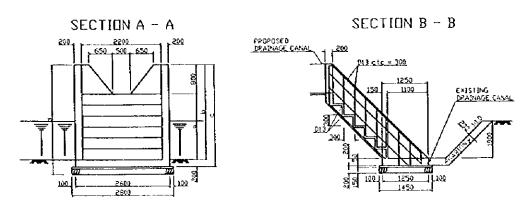


Canal Cross Culvert (Drainage) (Entrance Works)

	Road Type	:0	ø	' с
Type 1	b = 3	3000	600	700
Type 2	b = 5	5000	600	700
Type 3	b=5	5000	1000	1180
Type 4	b = 5	5000	1200	1420

<u>CHUTE</u>





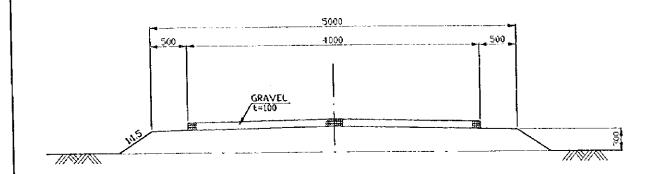
Chute

	٥	b	С	d
Type 1	1800	2600	5800	3000
Type 2	12000	13800	14000	14200

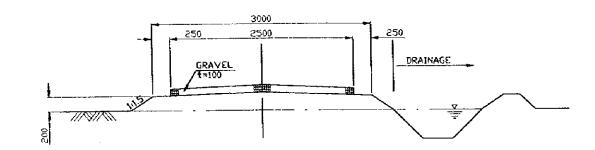
THE REPUBLIC OF ZIMBABWE THE BASIC DESIGN STUDY ON THE PROJECT FOR THE NYAKOMBA IRRIGATION DEVELOPMENT PROJECT(PHASE 2) DRAINAGE FACILITIES (2/2) BLOCK D Date No. 33 JAPAN INTERNATIONAL COOPERATION AGENCY

FARM RUAD TYPICAL SECTION

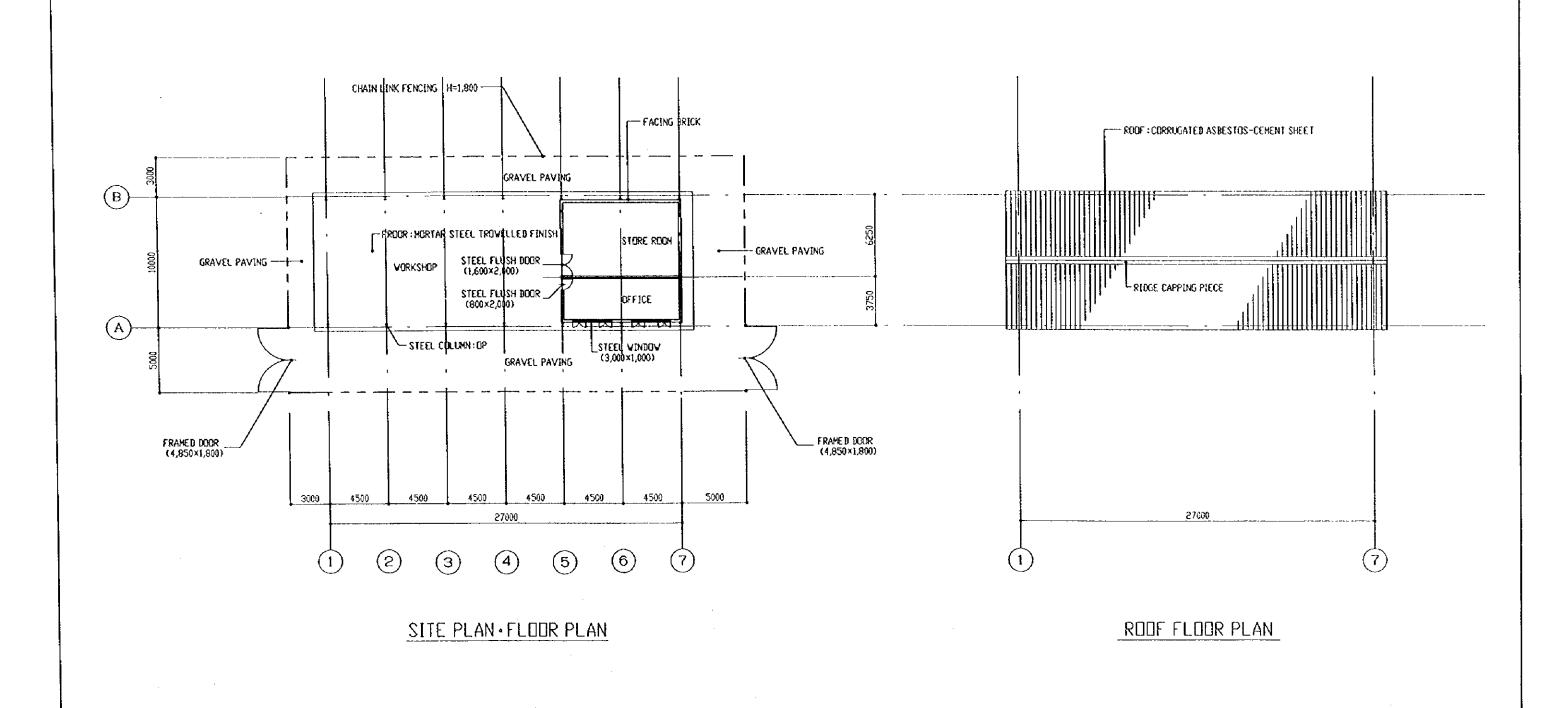
TRUNK ROAD



SECONDARY ROAD



THE REPUBLIC OF ZIMBABWE THE BASIC DESIGN STUDY ON THE PROJECT FOR THE NYAKOMBA IRRIGATION DEVELOPMENT PROJECT(PHASE 2) FARM ROAD TYPICAL SECTION BLOCK D Date No. 34 JAPAN INTERNATIONAL COOPERATION AGENCY

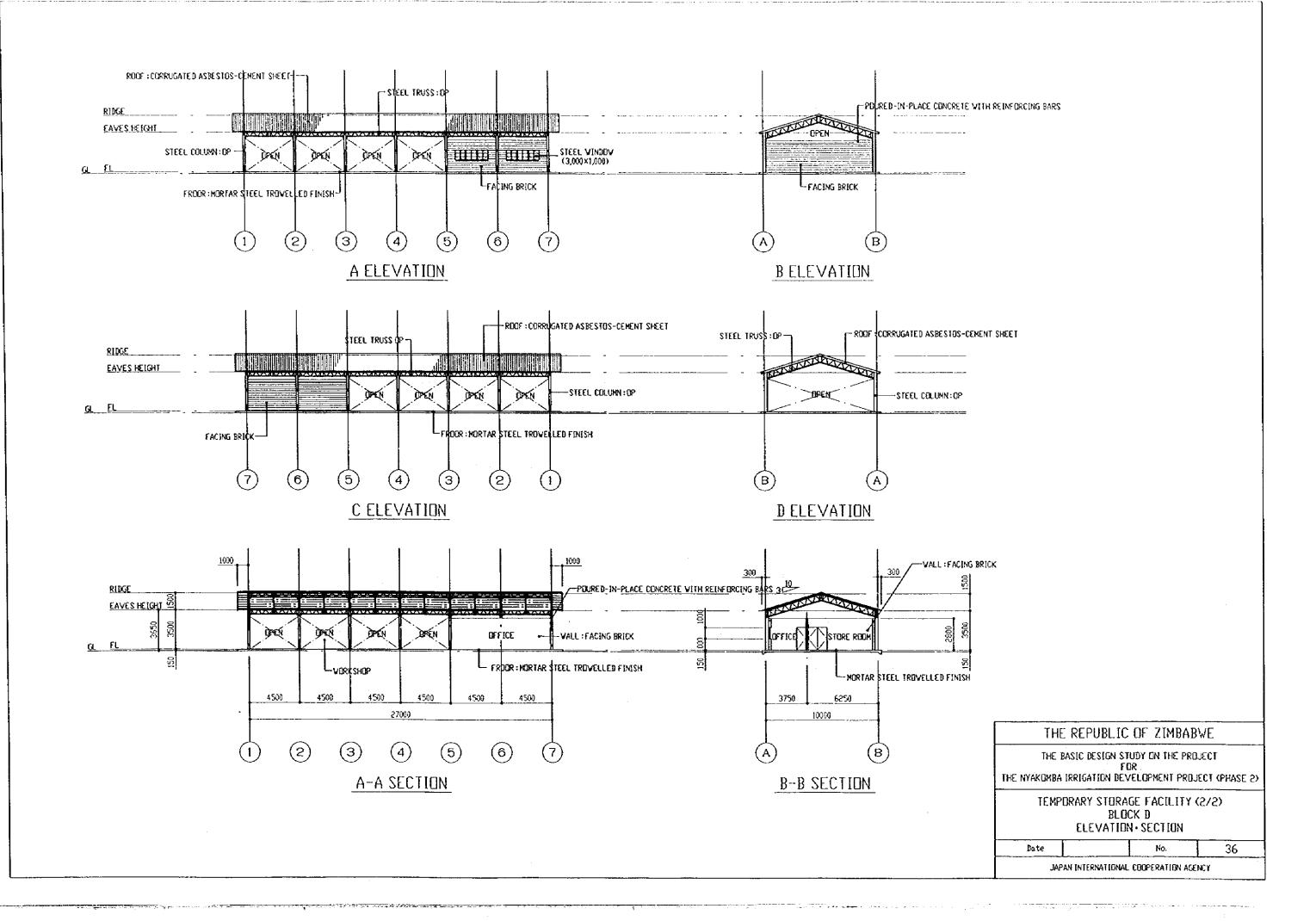


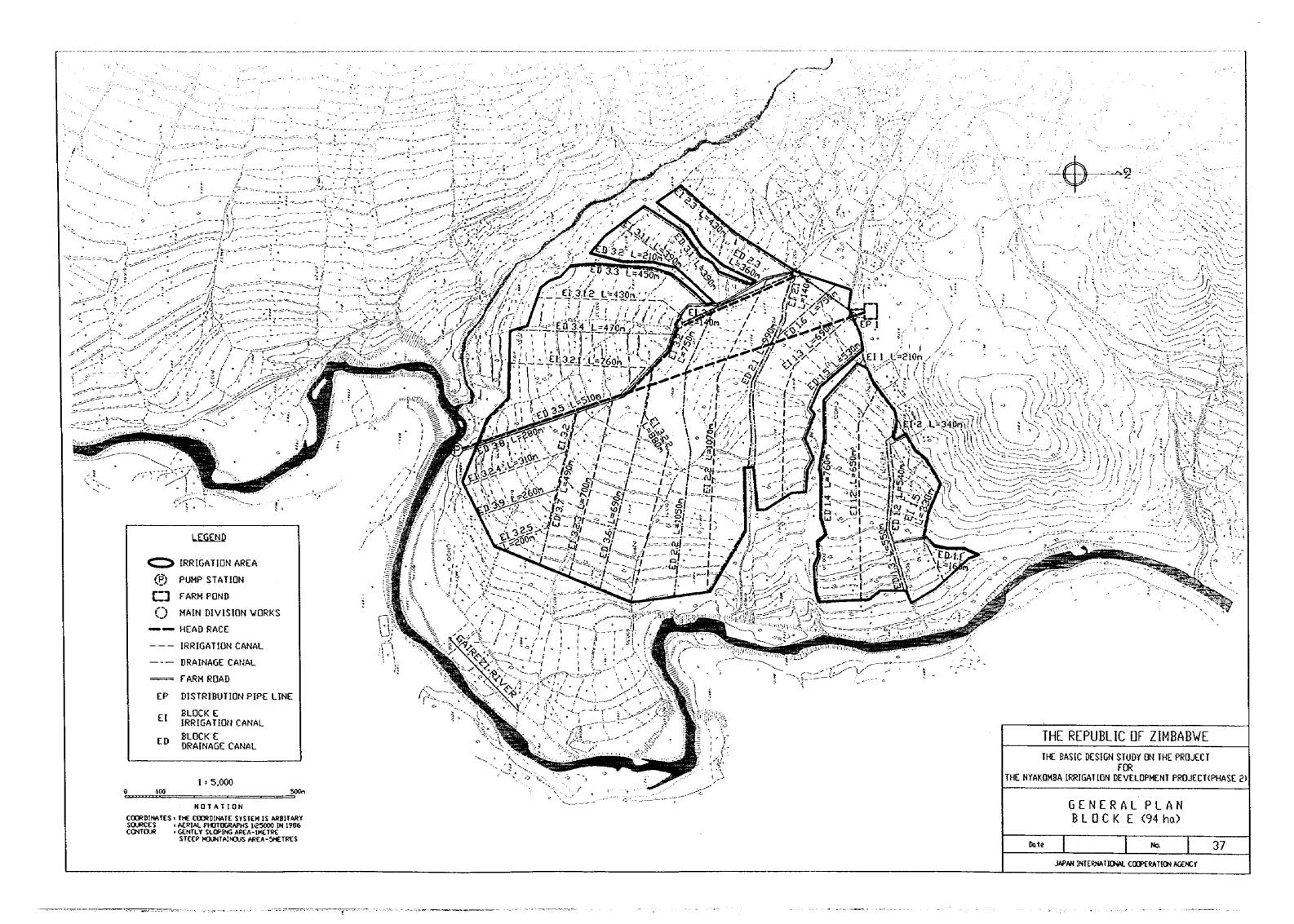
THE REPUBLIC OF ZIMBABWE

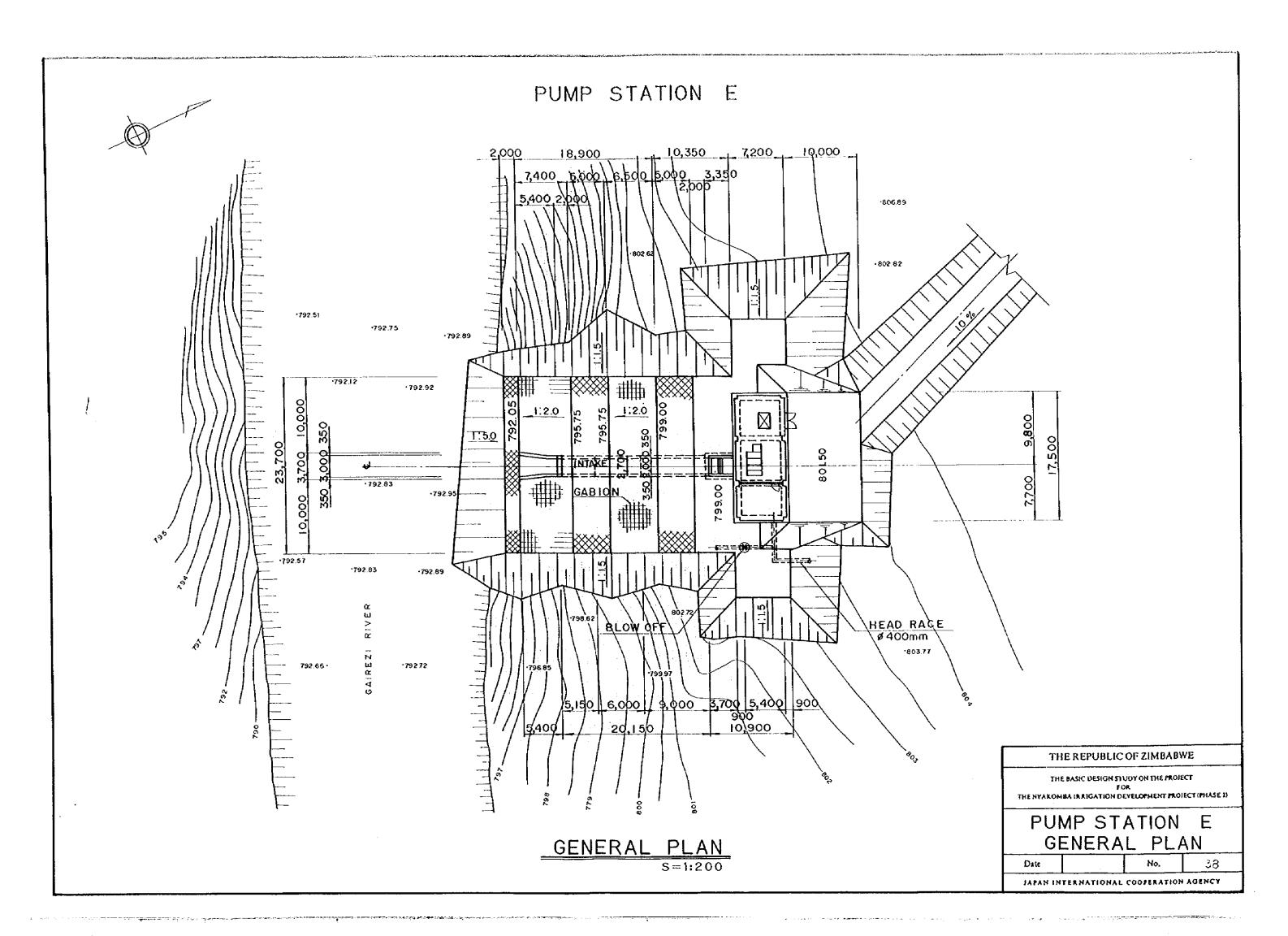
THE BASIC DESIGN STUDY ON THE PROJECT FOR THE NYAKOMBA IRRIGATION DEVELOPMENT PROJECT (PHASE 2)

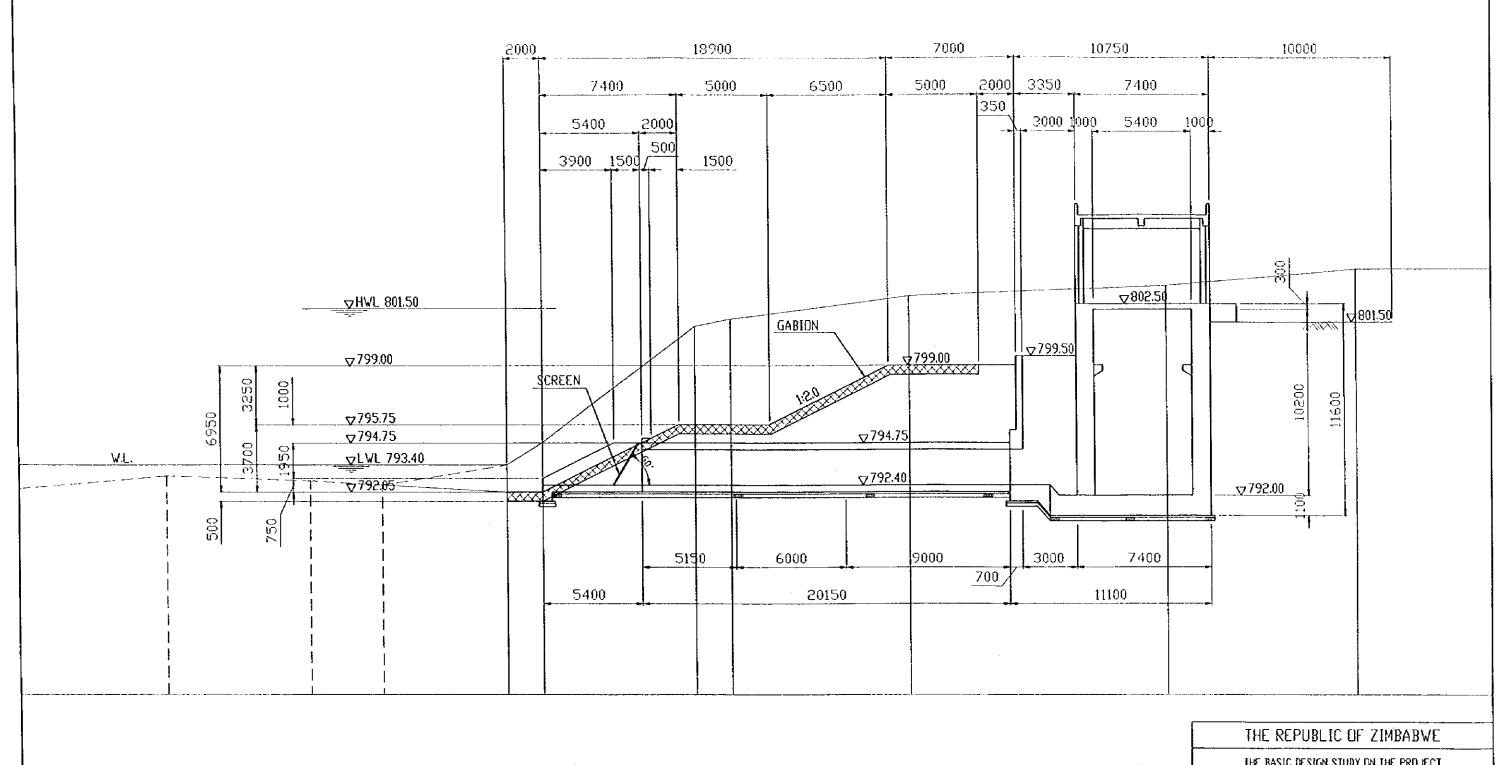
TEMPORARY STORAGE FACILITY (1/2)
BLOCK D
SITE PLAN•FLOOR PLAN•ROOF FLOOR PLAN

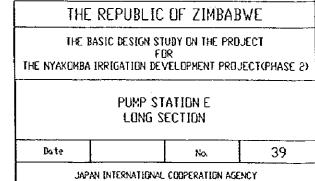
JAPAN INTERNATIONAL COOPERATION AGENCY



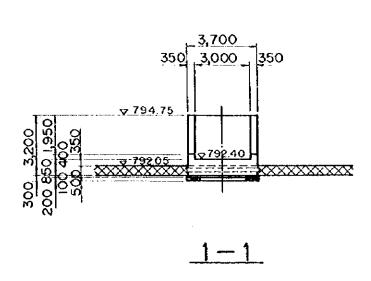


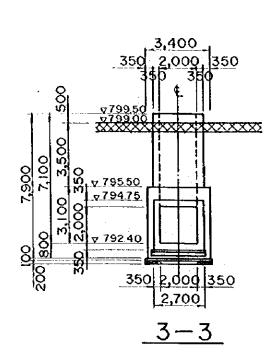


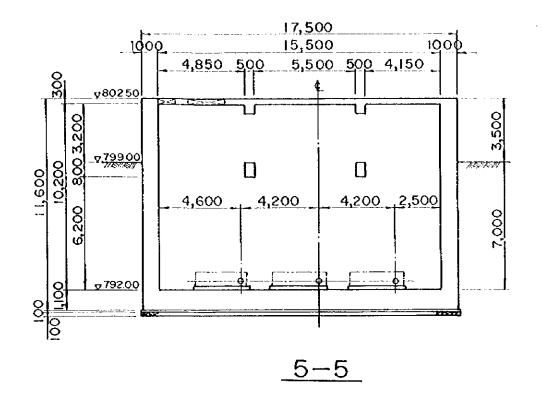


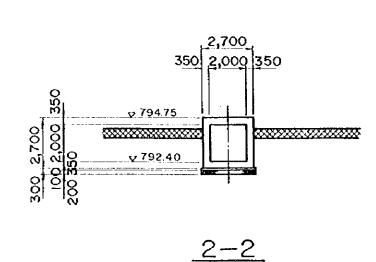


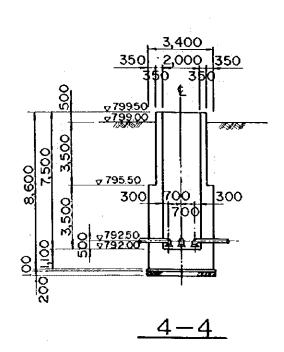
PUMP STATION E SECTION S=1:100











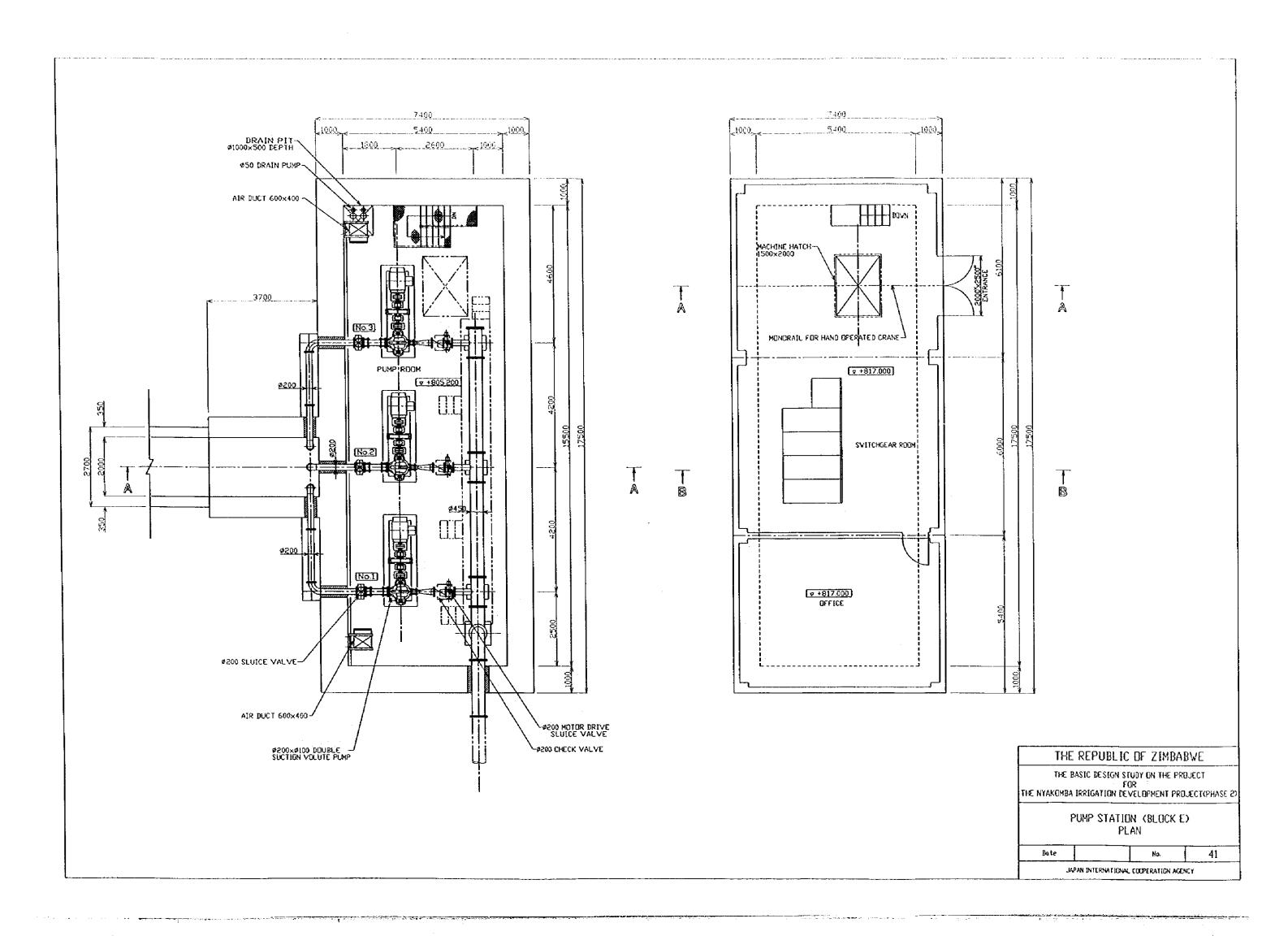
THE REPUBLIC OF ZIMBABWE

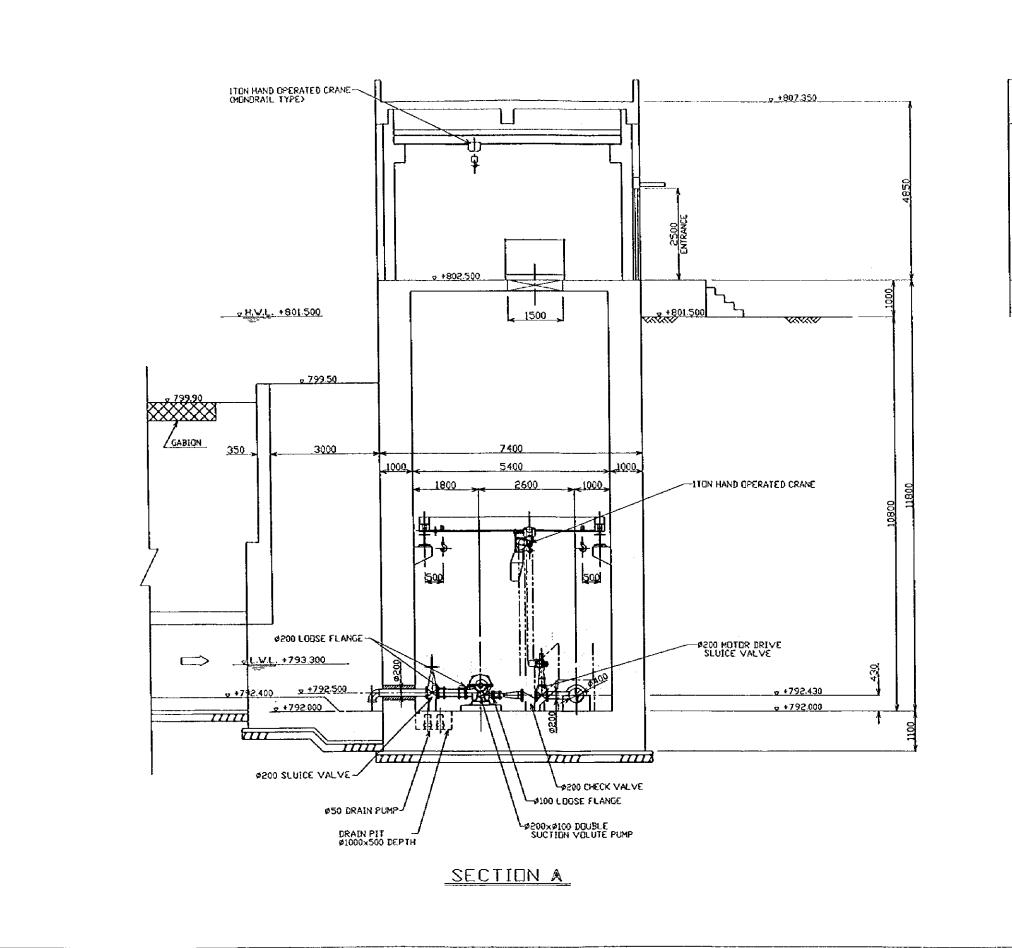
THE BASIC DESIGN STUDY ON THE PROJECT
FOR
THE NYAKOMBA IRRIGATION DEVELOPMENT PROJECT (PHASE I)

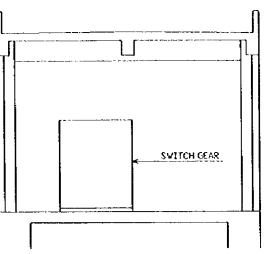
PUMP STATION E
SECTION

Date No. 47

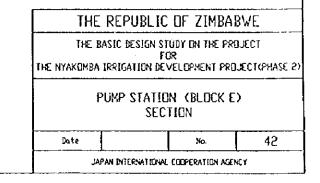
JAPAN INTERNATIONAL COOPERATION AGENCY

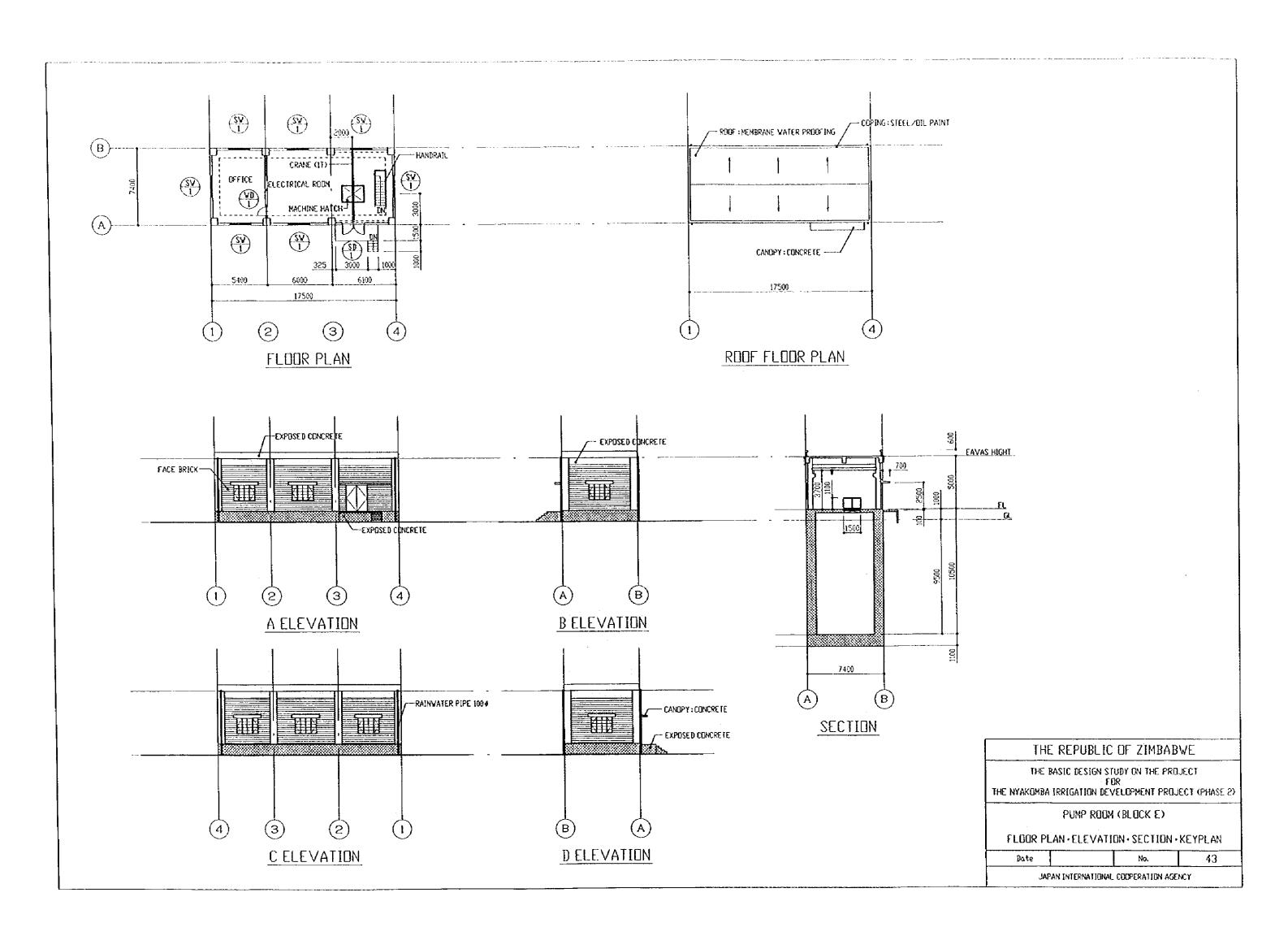


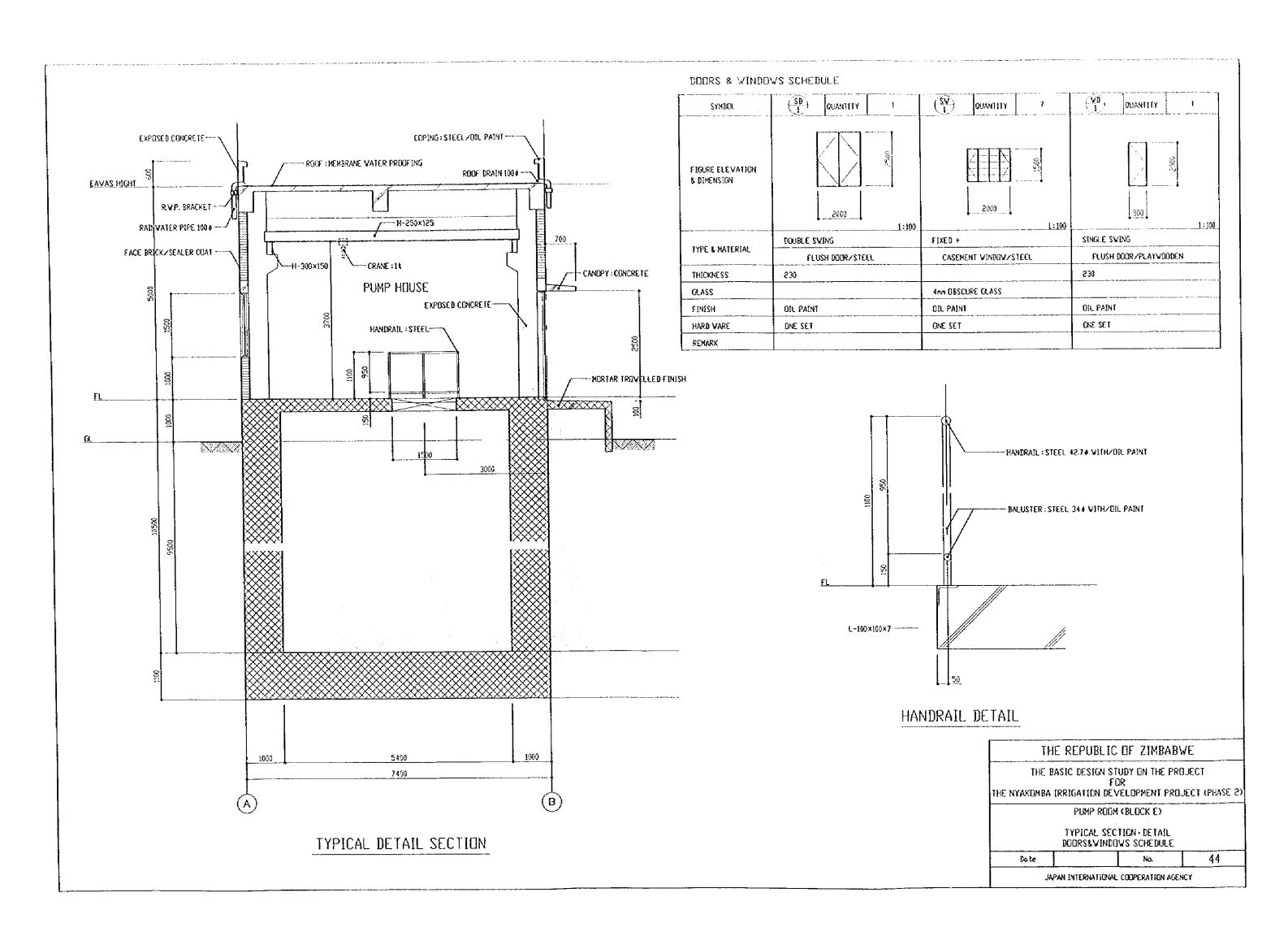


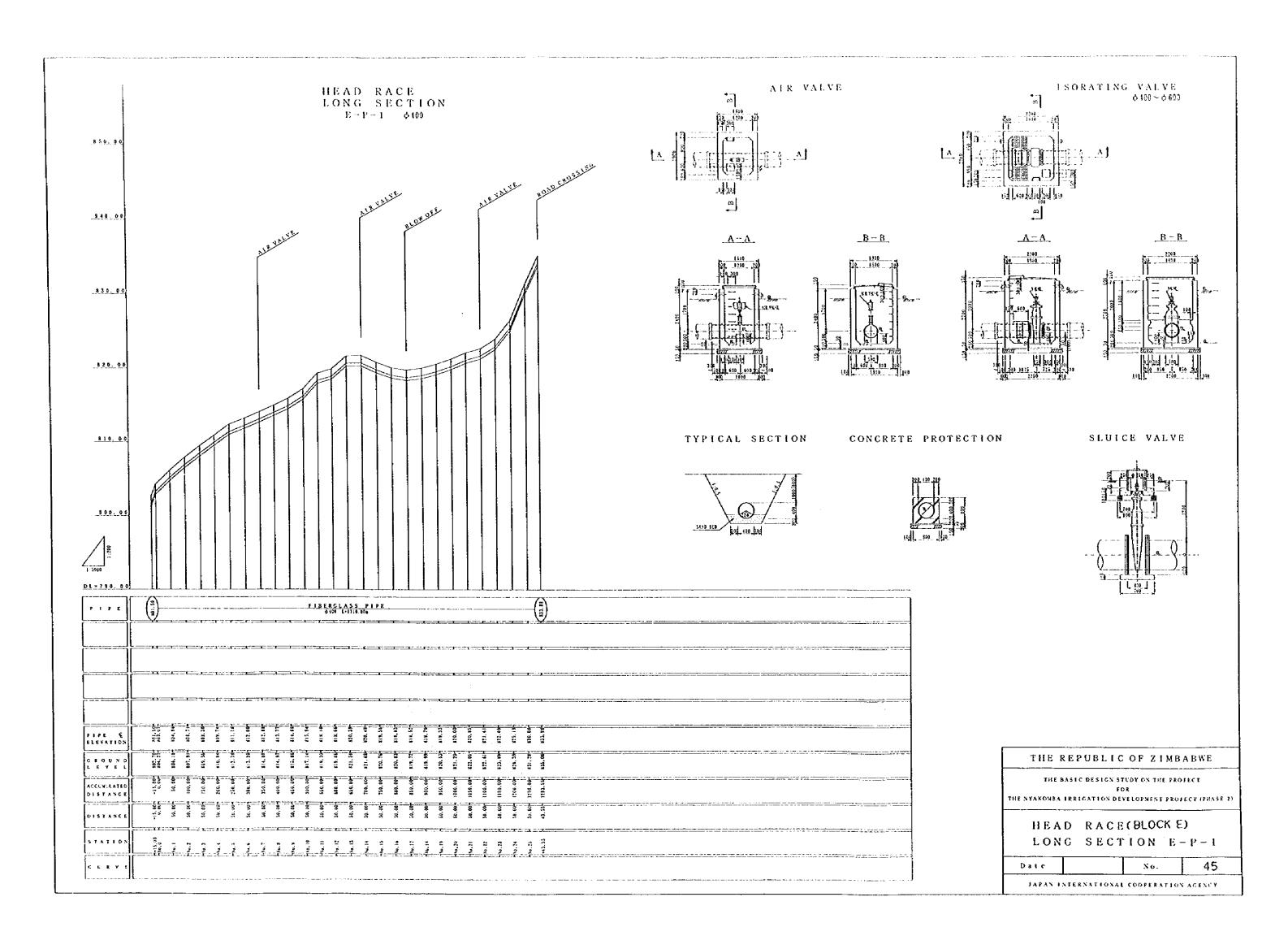


SECTION 8

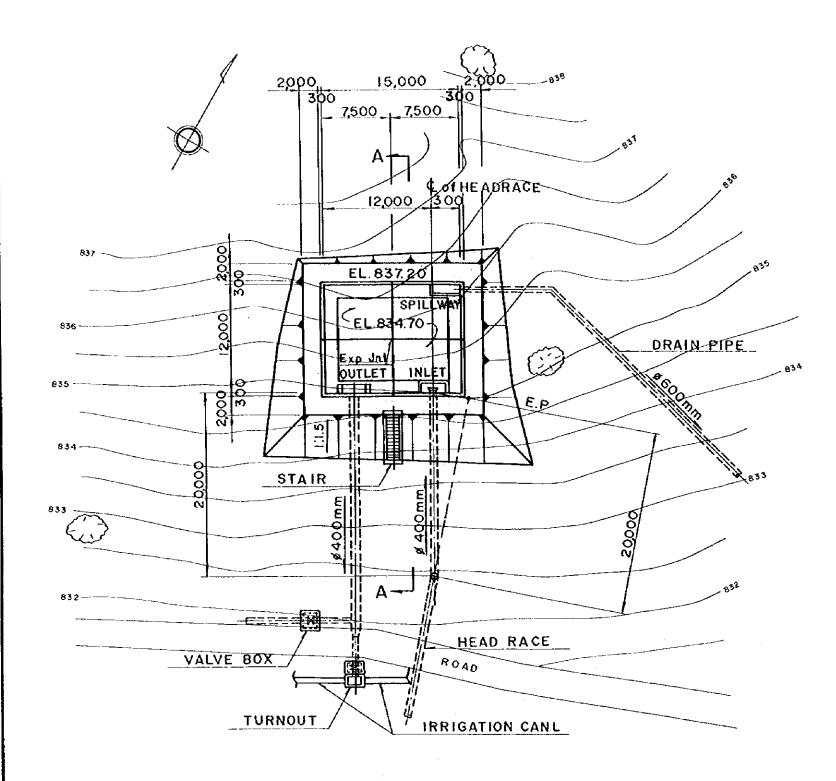


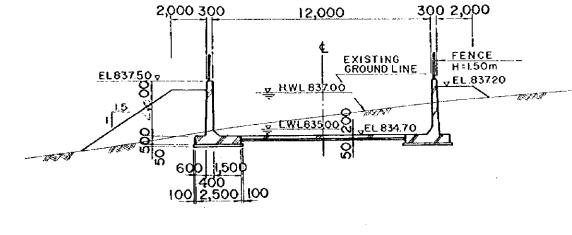






FARM POND E





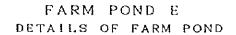
SECTION A-A

P L A N S=1:200 THE REPUBLIC OF ZIMBABWE

THE BASIC DESIGNSTUDY ON THE PROJECT
FOR
THE NYAKOMBA IRRIGATION DEVELOPMENT PROJECT (PHASE 2)

FARM POND E
PLAN AND SECTION

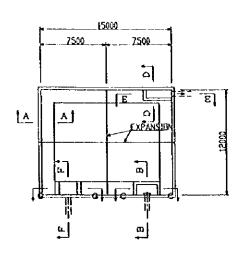
Date No. 45

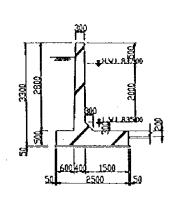


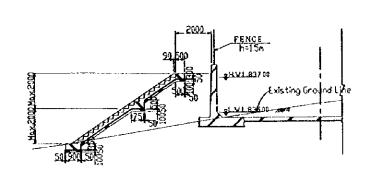
TYPICAL PLANSCALE 1:200

SECTION A-A SCALE 1:00

STAIR CASE SECTION SCALE 1:100





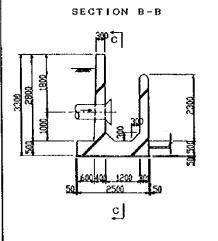


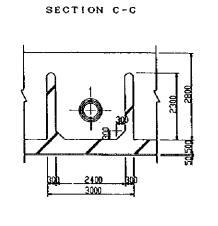
INLET SCALE 1:00

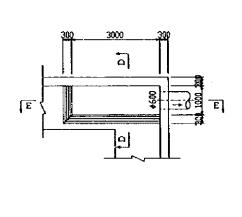
SPILL WAY SCALE 1:60

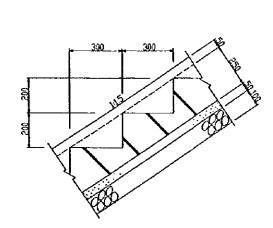
STAIR CASE DETAIL

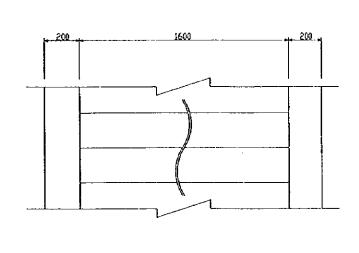
SCALE 1:10



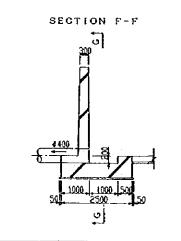


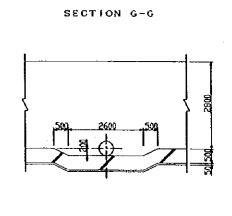


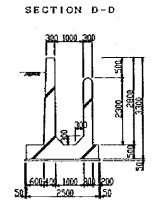


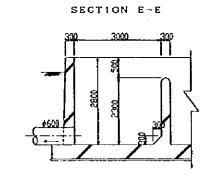


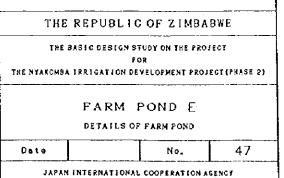
OUTLET SCALE 1:60







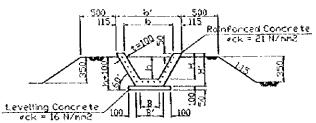




IRRIGATION FACILITIES (1/3) SCALE 1:50

IRRIGATION CANAL

TYPICAL SECTION

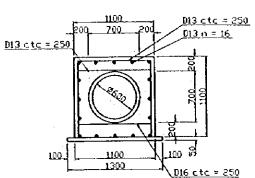


		В	B'	io	b	· · ·	н	'n
Ì	Type A	300	415	762	992	400	500	350
-	Type B	250	364	654	884	350	450	300
	Type C	500	314	546	776	300	400	250

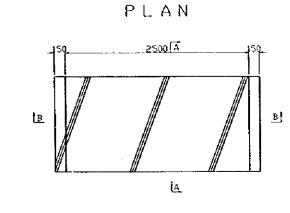
PEINFORCEMENT SHALL BE WELDED MESHED WIRE Ø6MM (MESH 100 x 100)

ROAD CROSS SIPHON

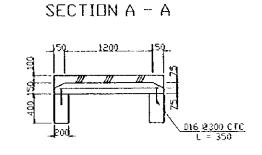
PLAN $\tilde{\alpha}$ Δį \circ

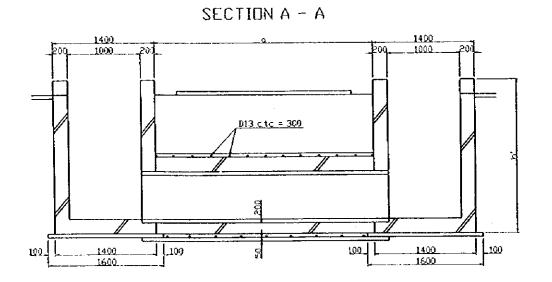


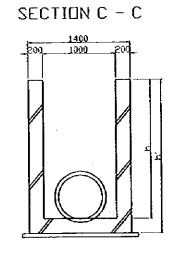
SECTION B - B

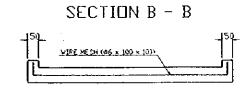


ENTRANCE WORKS





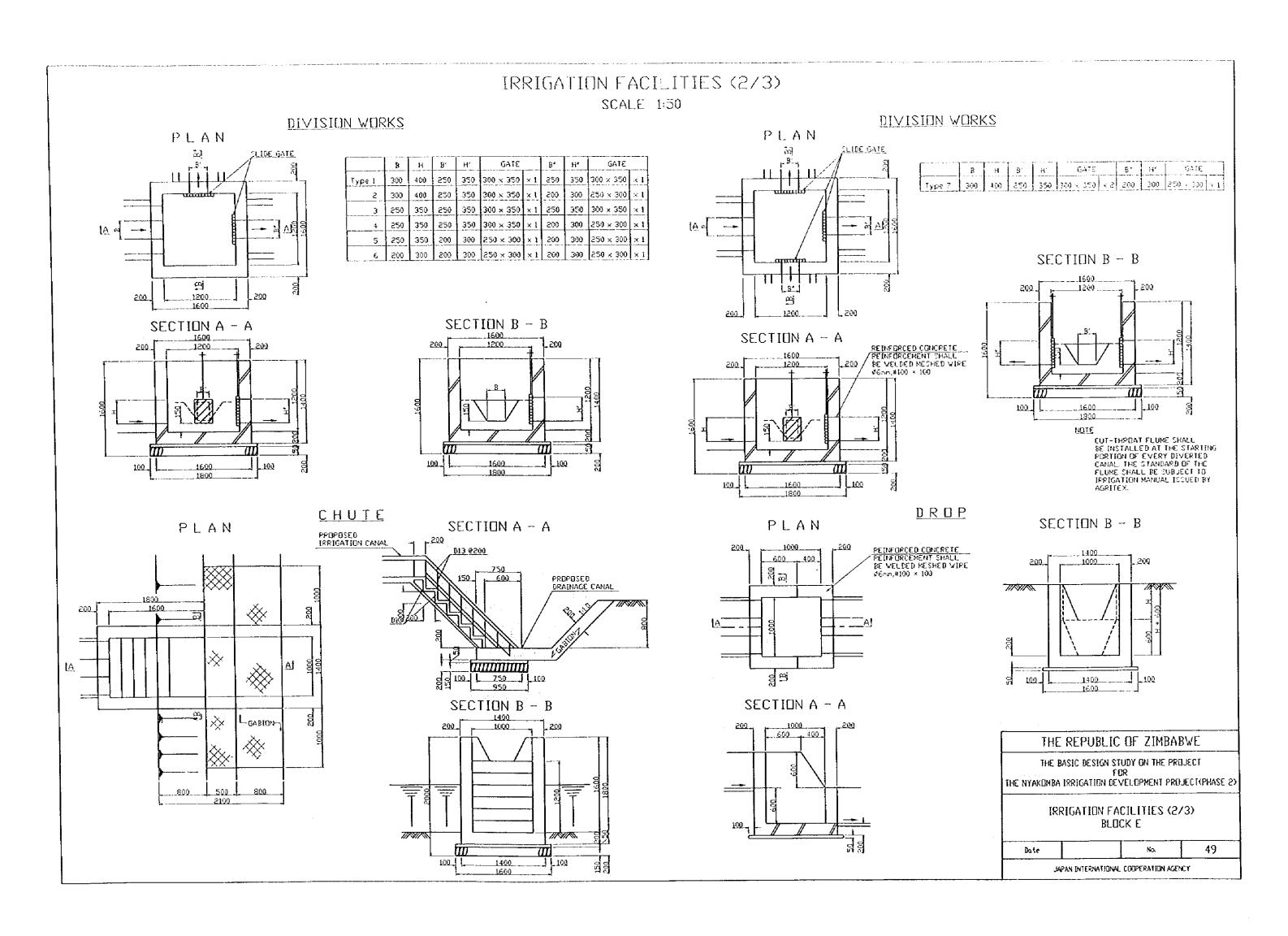




TH	E REPUBLIC	OF ZIMBA	BWE				
THE BASIC DESIGN STUDY ON THE PROJECT FOR THE NYAKOMBA IRRIGATION DEVELOPMENT PROJECT(PHASE 2)							
I	IRRIGATION FACILITIES (1/3) BLOCK E						
Date		No.	48				
	JAPAN INTERNATIONAL	COOPERATION AC	ENCY				

Road Crass Stphon (Irrigation)

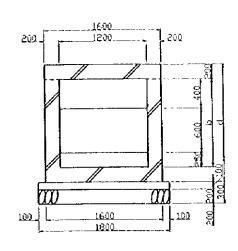
	a	ь	'n	h'	t (
Type 1	3000	600	1850	2100	50
Type 2	7000	600	1859	2100	50
Type 3	10000	600	1850	2100	50
Type 4	15000	600	2150	2400	50
Type 5	19000	600	2150	2400	50



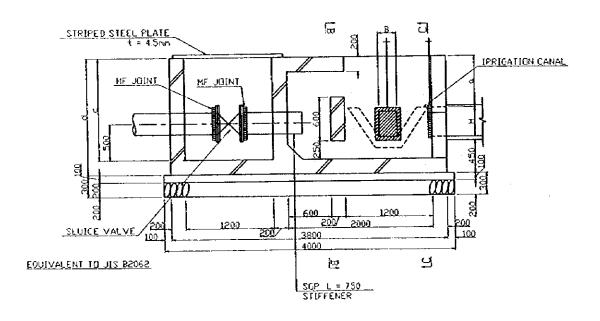
IRRIGATION FACILITIES (3/3) SCALE 1:50

DISCHARGE CHAMBER

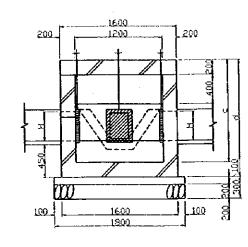
SECTION B - B



SECTION A - A



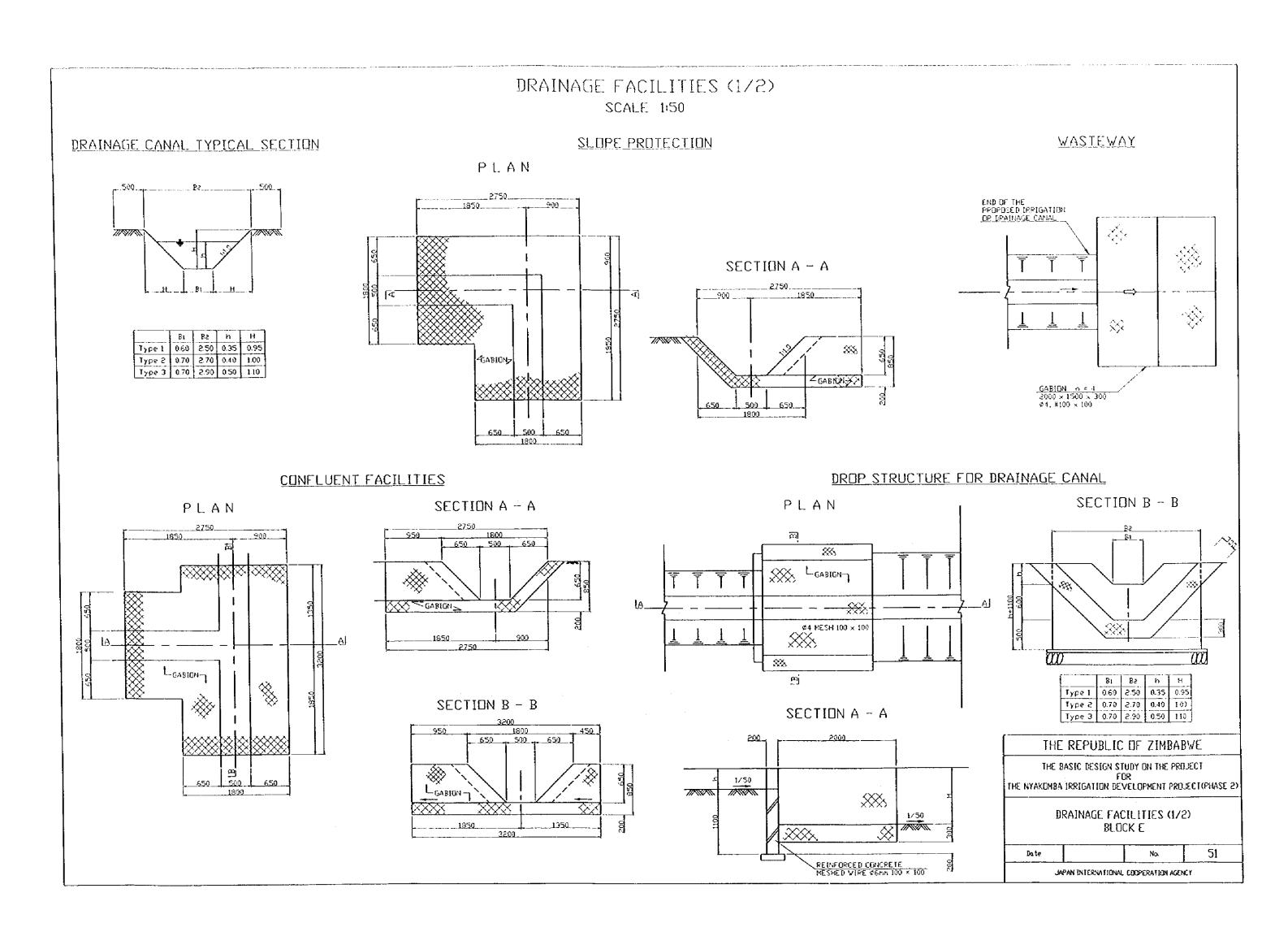
SECTION C - C



		100						
TYPE	B-1	H-1	B-2	H-5	8-3	H-3	SLUICE VALVE	MF JOINT
	200	306	250	350	_	-	\$200	\$200
			200	300	250	350	♦ 300	≠ 300
Type 3	520	350	300	400	_	_	\$300	ø300
	Type 1	Type 1 200	Type 1 200 300 Type 2 200 300	Type 1 200 300 250 Type 2 200 300 200	Type 1 200 300 250 350 Type 2 200 300 200 300	Type 1 200 300 250 350 - Type 2 200 300 200 300 250	Type 1 200 300 250 350 Type 2 200 300 200 300 250 350	Type 1 200 300 250 350 \$200 Type 2 200 300 200 300 250 350 \$300

note: To a from d shall be adjusted to the site ground levels *idth of Slide Sate should be wider than bottom of conal by 5 cm.

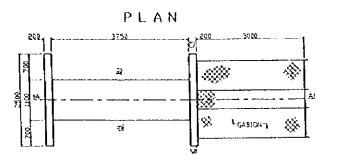
TH	E REPUBLIO	C OF ZIMBAI	3WE
THE		TUDY ON THE PRO	JJECT
THE NYAKOMB		VELOPMENT PRO	JECT(PHASE 2)
Į,		ACILITIES (3) ICK E	/3)
Date		No.	50
	JAPAN INTERNATION	KL COOPERATION AGE:	VCY

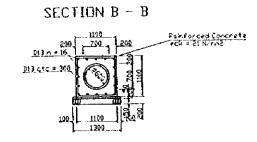


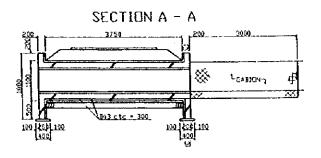
DRAINAGE FACILITIES (2/2)

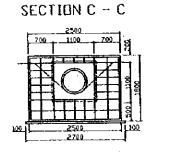
SCALE 1/100

RUAD CRUSS CULVERT

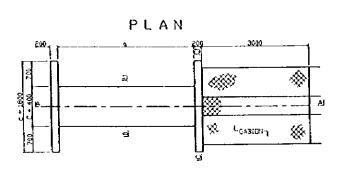


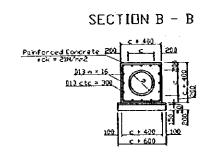


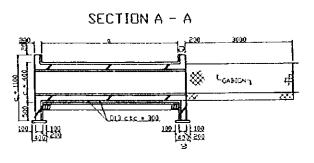


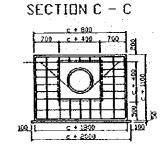


CANAL CROSS CULVERT (ENTRANCE WORKS)





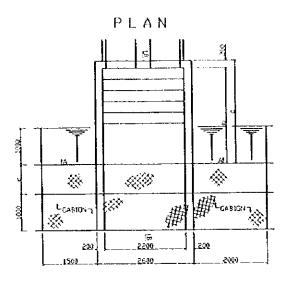


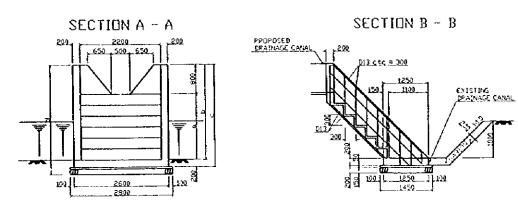


Canal Cross Culvert (Drainage) (Entrance Works)

	Road Type	a	.	• •
Type I	io = 3	3000	600	700
Type 2	b = 5	5000	600	700
Type 3	b = 5	5000	1000	-1180
Type 4	b=5	5000	1500	1420

<u>CHUTE</u>





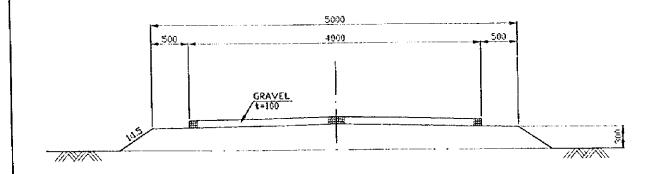
Chute

	•	ь	c	ď
Type 1	1900	2600	5800	3000
Type 2	12000	13800	14000	14200

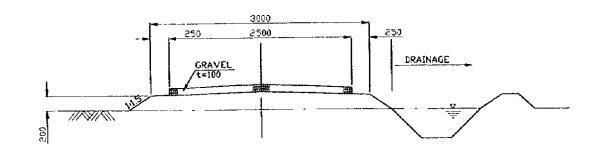
THE REPUBLIC OF ZIMBABVE THE BASIC DESIGN STUDY ON THE PROJECT FOR THE NYAKOMBA IRRIGATION DEVELOPMENT PROJECT(PHASE 2) DRAINAGE FACILITIES (2/2) BLOCK E Date No. 52 JAPAN INTERNATIONAL COOPERATION AGENCY

FARM ROAD TYPICAL SECTION

TRUNK ROAD



SECONDARY ROAD



THE REPUBLIC OF ZIMBABVE

THE BASIC DESIGN STUDY ON THE PROJECT
FOR
THE NYAXOMBA IRRIGATION DEVELOPMENT PROJECT(PHASE 2)

FARM ROAD TYPICAL SECTION BLOCK E

Date		No.	53
	AGAN TRITODEST ICHAL	COCOCDATION ACCIO	~~