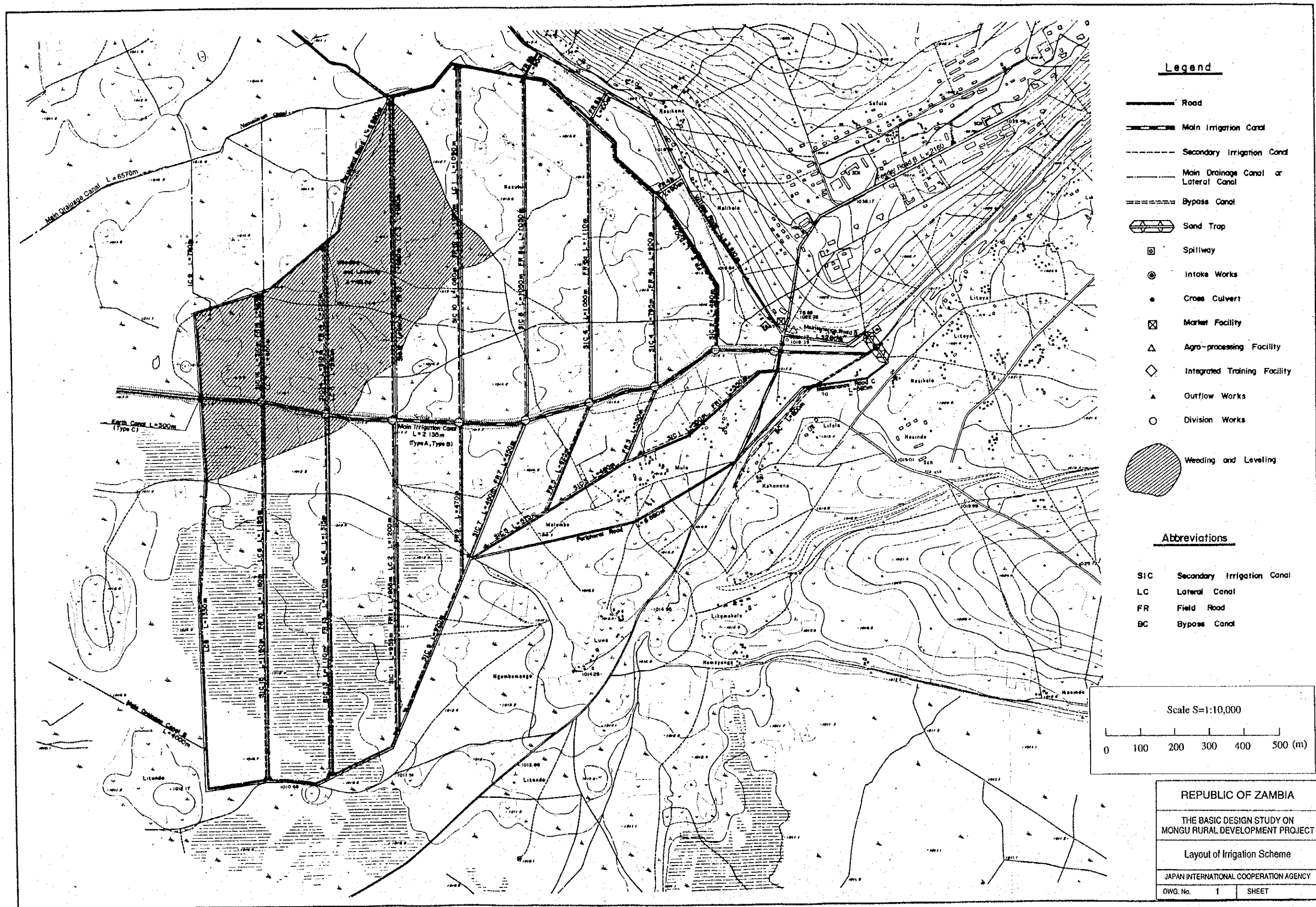


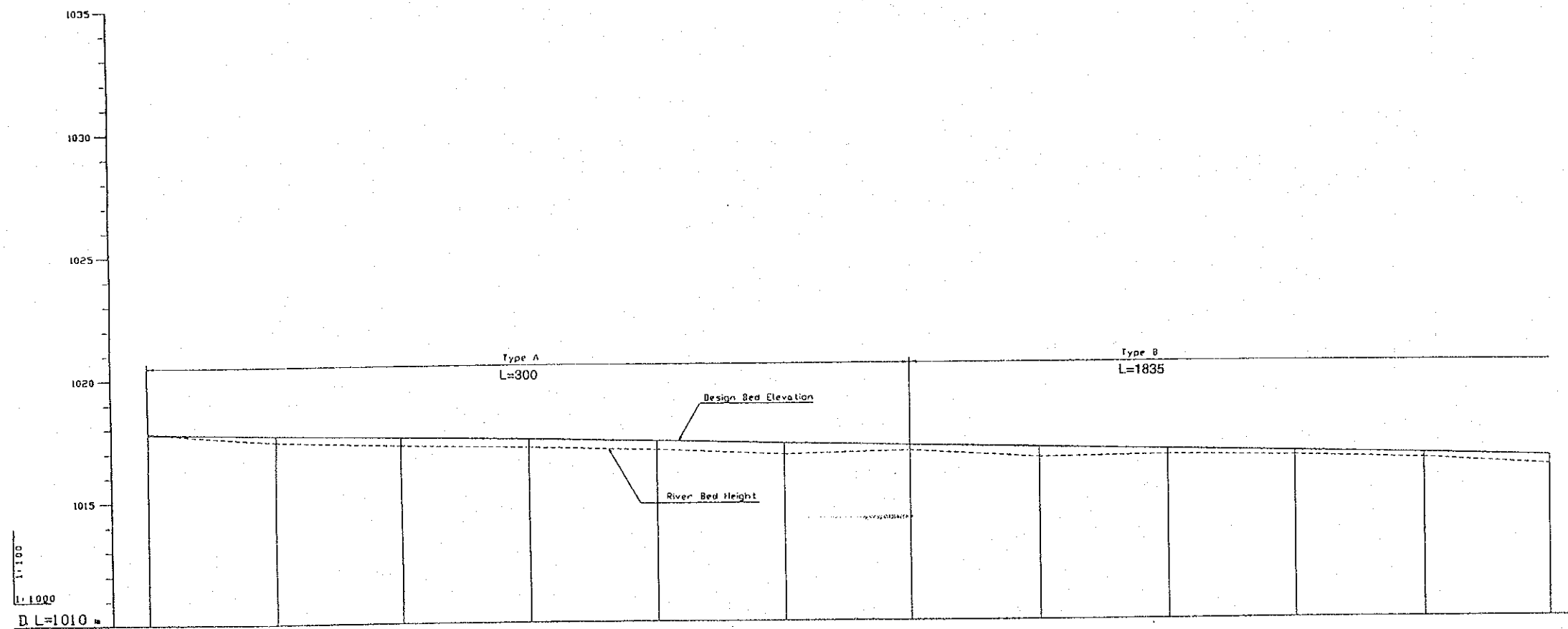
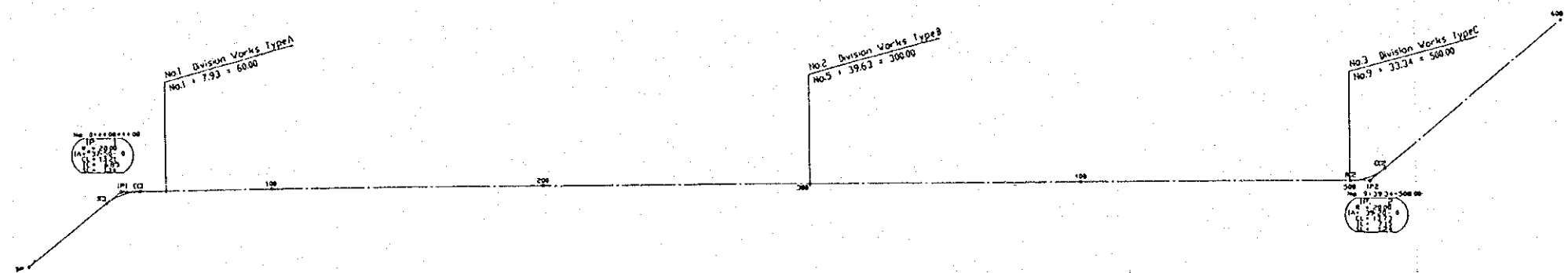
Appendix 7 References

Drawings

List of Drawings

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3. Long Section of Main Irrigation Canal (2/5)
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14. Layout of Road Plan (2/3)
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24. Internal Finishing Schedule & External Finishing Schedule
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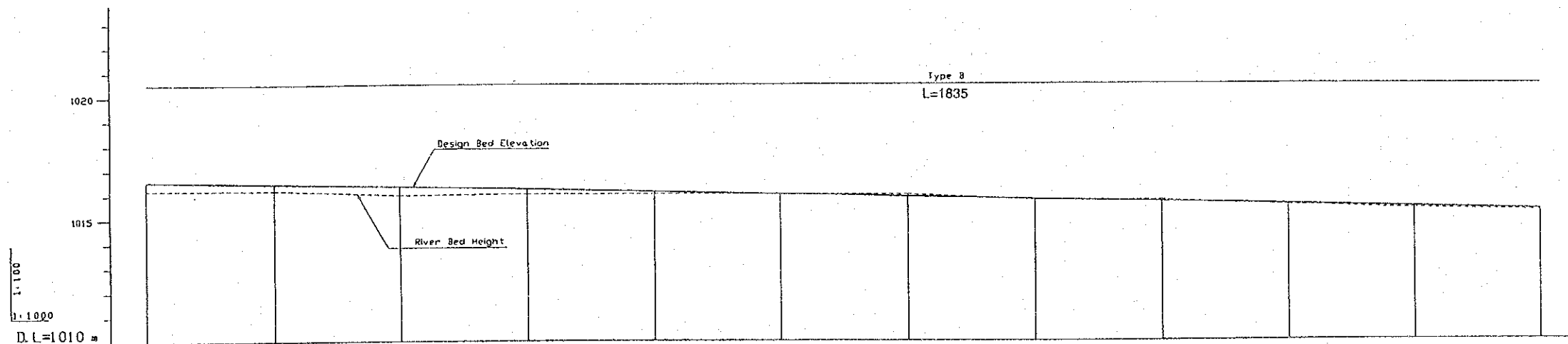
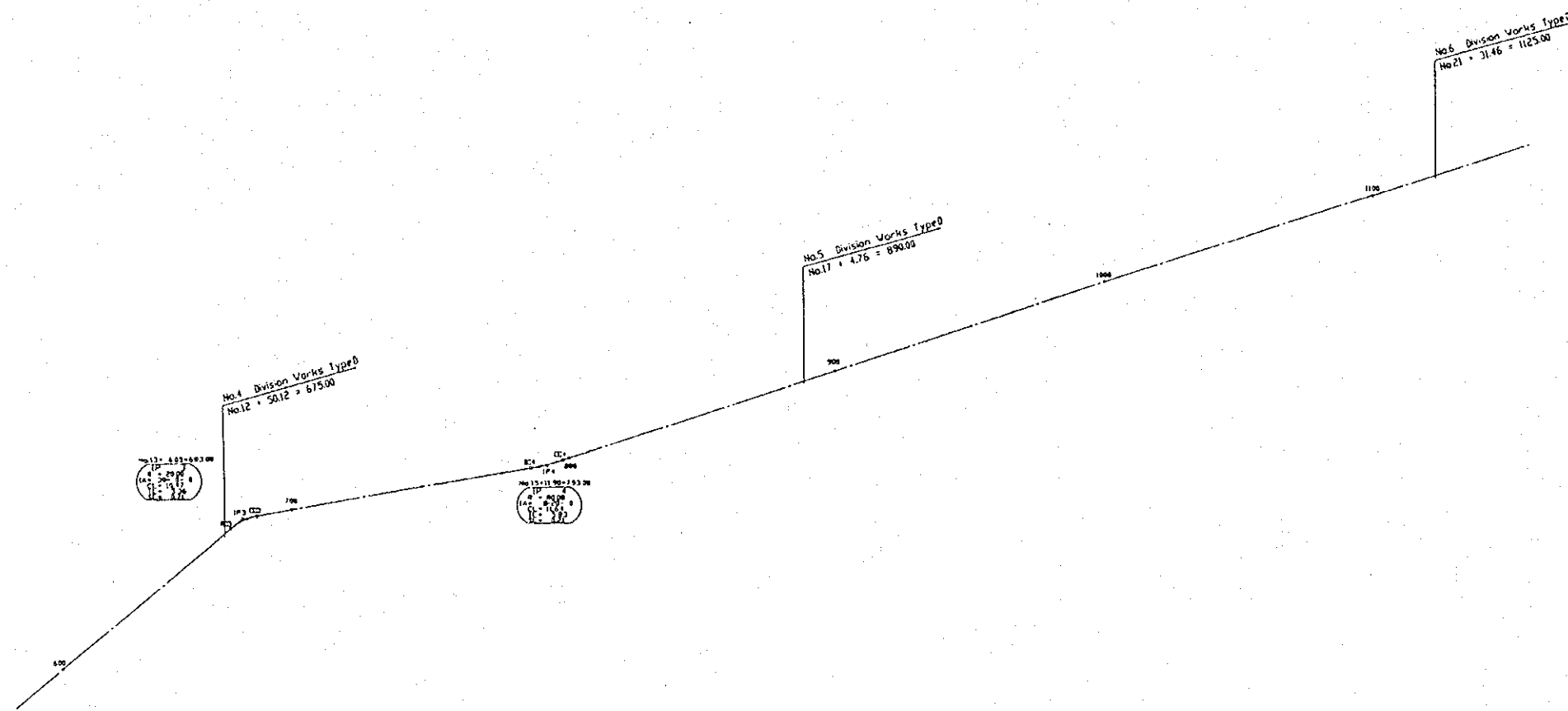




SLOPE	1:100										
DESIGN BED ELEVATION	1017.82	1017.82	1017.71	1017.59	1017.48	1017.37	1017.25	1017.14	1017.03	1016.91	1016.80
RIVER BED HEIGHT	1017.82	1017.43	1017.25	1017.13	1017.00	1016.79	1016.61	1016.44	1016.26	1016.08	1015.90
DISTANCE	0.00	52.07	104.15	156.22	208.29	260.37	312.44	364.51	416.59	468.66	520.73
STATION NUMBER	NO. 0 (C.P.)	NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10
											NO. 11

Main Irrigation Canal

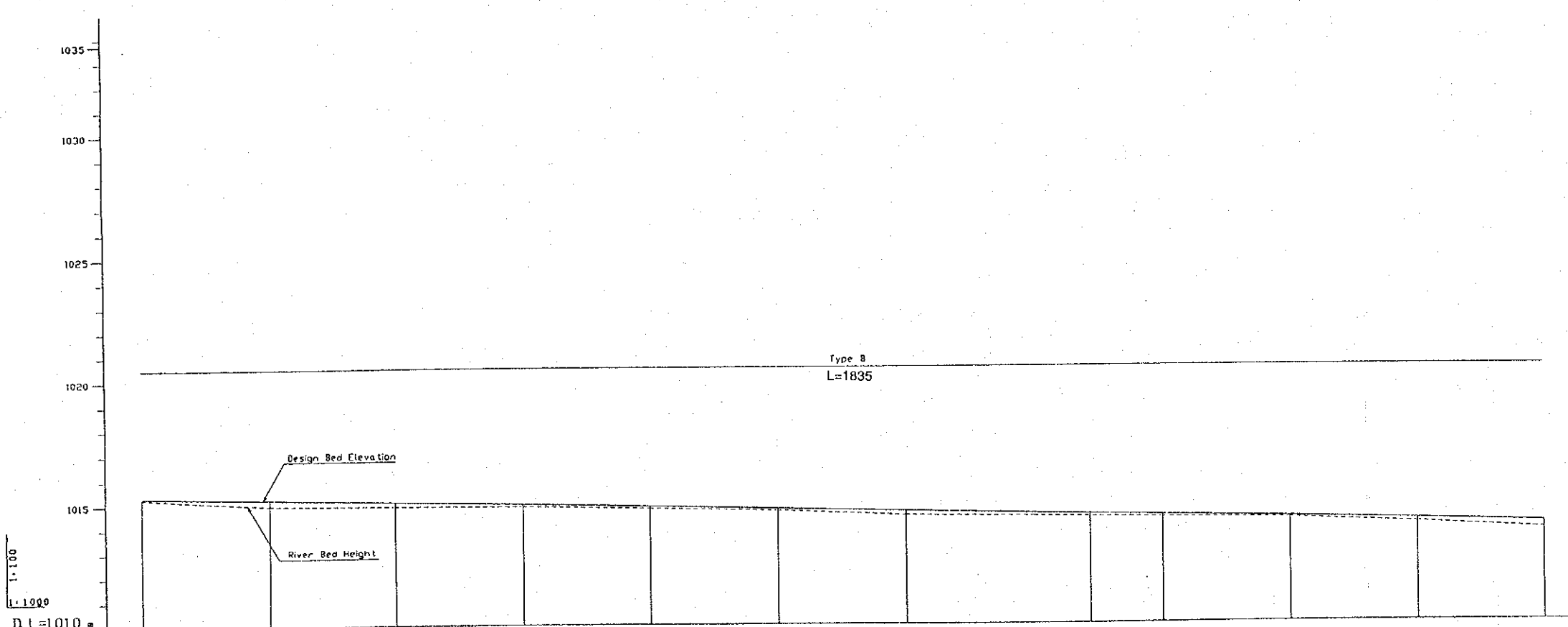
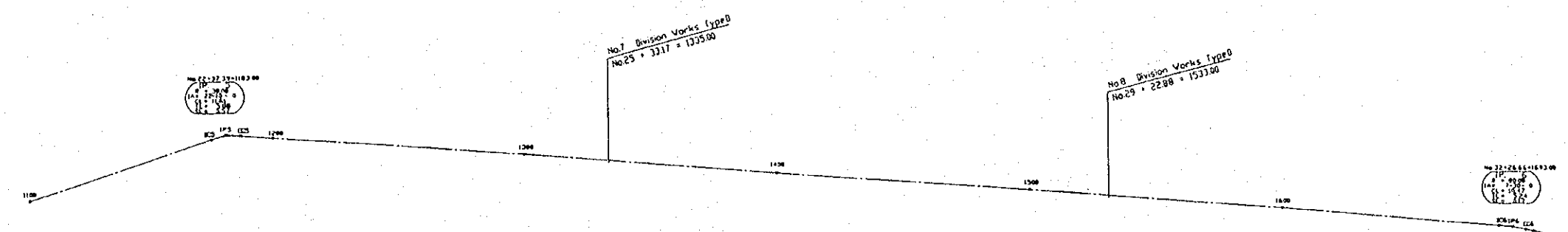
REPUBLIC OF ZAMBIA	
THE BASIC DESIGN STUDY ON MONGU RURAL DEVELOPMENT PROJECT	
Long Section of Main Irrigation Canal	
JAPAN INTERNATIONAL COOPERATION AGENCY	
DWG. No.	2
SHEET	1 of 5



SLOPE	1:1/460 L=2475.00										
DESIGN BED ELEVATION	1016.57	1016.46	1016.35	1016.24	1016.12	1016.01	1015.90	1015.78	1015.67	1015.56	1015.44
RIVER BED HEIGHT	1016.20	1016.19	1015.98	1015.02	1016.01	1015.02	1015.99	1015.74	1015.73	1015.50	1015.35
DISTANCE	572.80	624.88	676.95	729.02	781.10	833.17	885.24	937.32	989.39	1041.46	1093.54
STATION NUMBER	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16	NO. 17	NO. 18	NO. 19	NO. 20	NO. 21

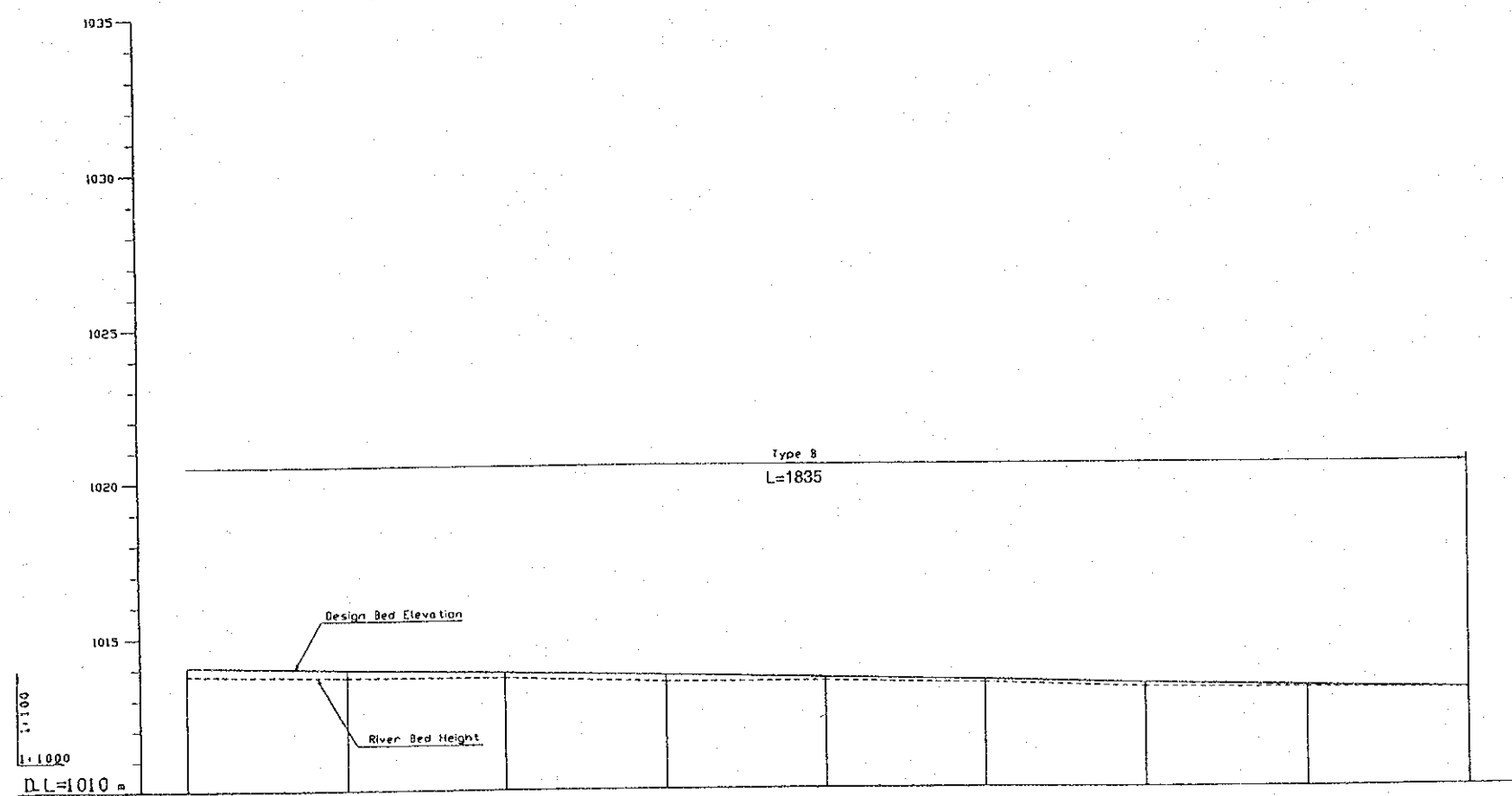
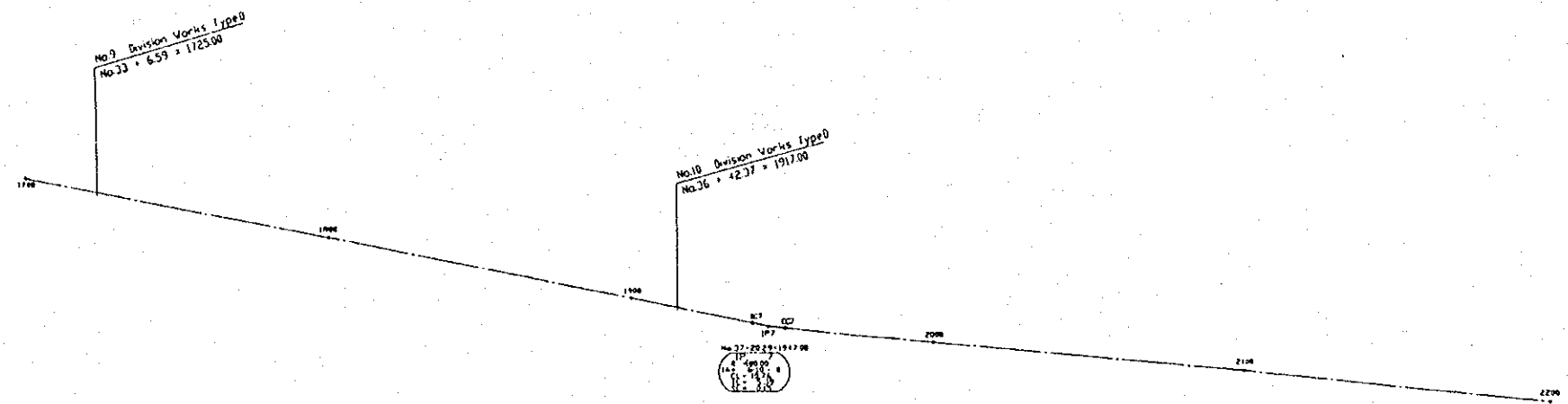
Main Irrigation Canal

REPUBLIC OF ZAMBIA	
THE BASIC DESIGN STUDY ON MONGU RURAL DEVELOPMENT PROJECT	
Long Section of Main Irrigation Canal	
JAPAN INTERNATIONAL COOPERATION AGENCY	
DWG. No. 3	SHEET 2 of 5



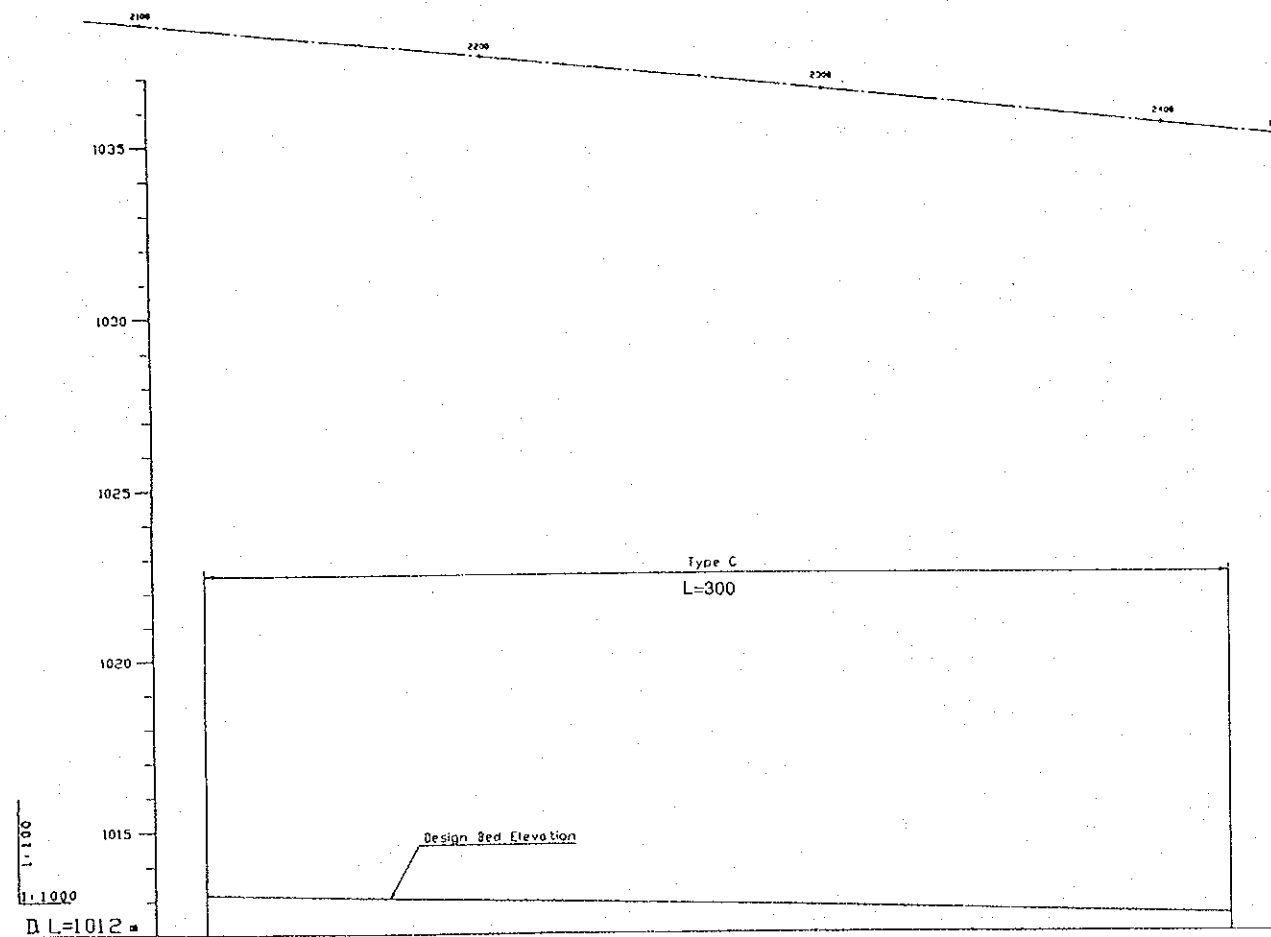
SLOPE	$\frac{1}{400}$ $\frac{1}{2435.00}$											
DESIGN BED ELEVATION	1013.33	1015.22	1015.10	1014.99	1014.88	1014.76	1014.65	1014.54	1014.42	1014.31	1014.20	1014.08
RIVER BED HEIGHT	1015.26	1014.96	1014.91	1014.88	1014.78	1014.67	1014.46	1014.41	1014.31	1014.24	1014.05	1013.79
DISTANCE	114.561	1197.68	1249.76	1301.83	1353.90	1405.98	1458.05	1510.12	1562.20	1614.27	1666.34	1718.41
STATION NUMBER	NO. 22	NO. 23	NO. 24	NO. 25	NO. 26	NO. 27	NO. 28	NO. 29	NO. 30	NO. 31	NO. 32	NO. 33

Main Irrigation Canal



SLOPE	$\frac{1}{460}$ $\frac{1}{2435.00}$									
DESIGN BED ELEVATION	1014.08	1013.97	1013.86	1013.74	1013.63	1013.52	1013.40	1013.29	1013.18	
RIVER BED HEIGHT	1013.79	1013.71	1013.68	1013.51	1013.51	1013.41	1013.26	1013.21	1013.14	
DISTANCE	1718.41	1770.49	1822.56	1874.63	1926.71	1978.78	2030.85	2082.93	2135.00	
STATION NUMBER	NO. 33	NO. 34	NO. 35	NO. 36	NO. 37	NO. 38	NO. 39	NO. 40	NO. 41	

Main Irrigation Canal



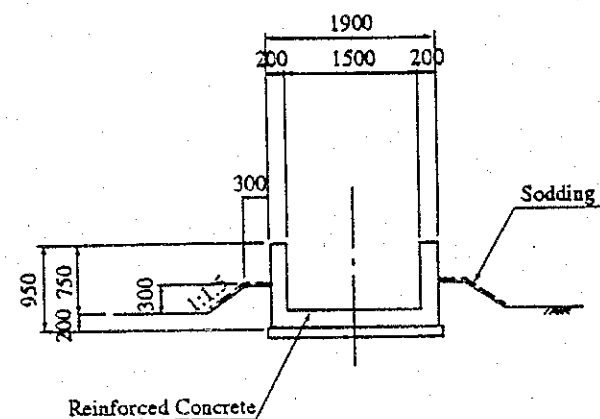
SLOPE			1012.53
DESIGN BED ELEVATION	1013.18		1012.23
RIVER BED HEIGHT	1013.14		
DISTANCE	2435.00		2435.00
STATION NUMBER	NO 41		(CP)

Main Irrigation Canal

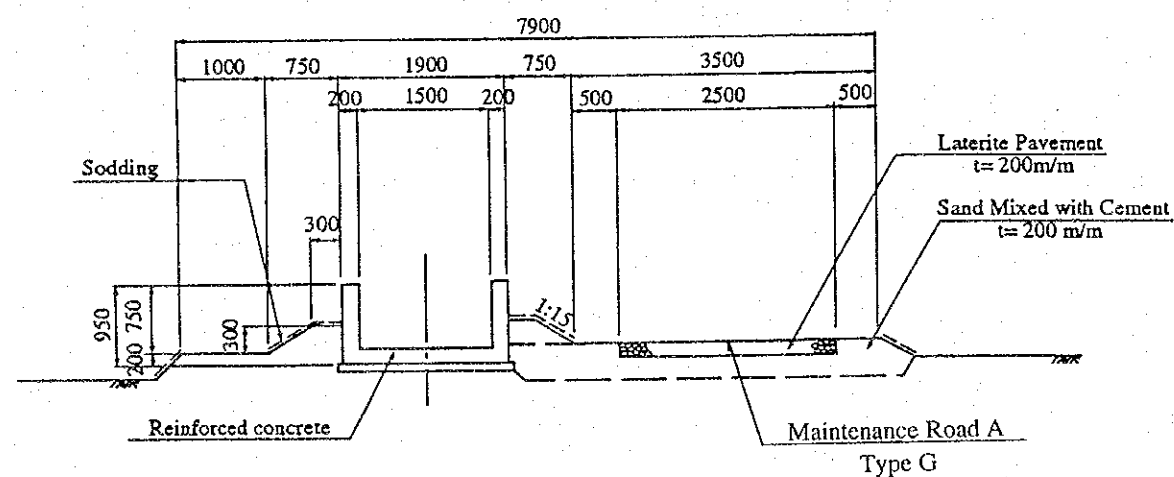
REPUBLIC OF ZAMBIA	
THE BASIC DESIGN STUDY ON MONGU RURAL DEVELOPMENT PROJECT	
Long Section of Main Irrigation Canal	
JAPAN INTERNATIONAL COOPERATION AGENCY	
DWG. No.	6
SHEET	5 of 5

Main Irrigation Canal

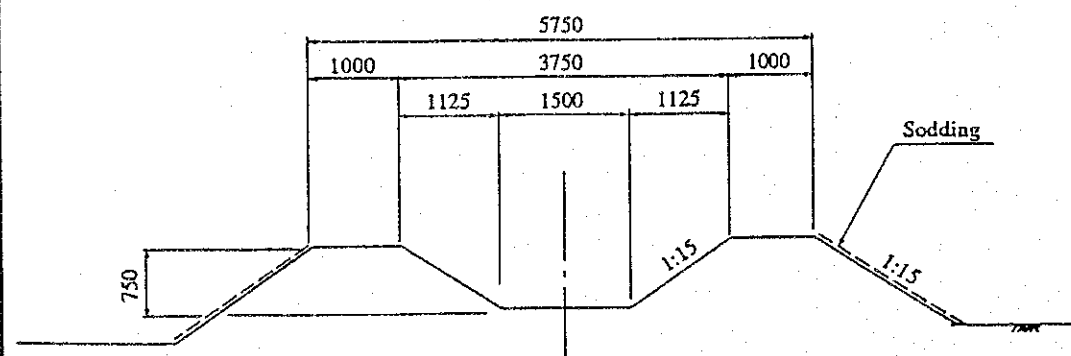
Type A



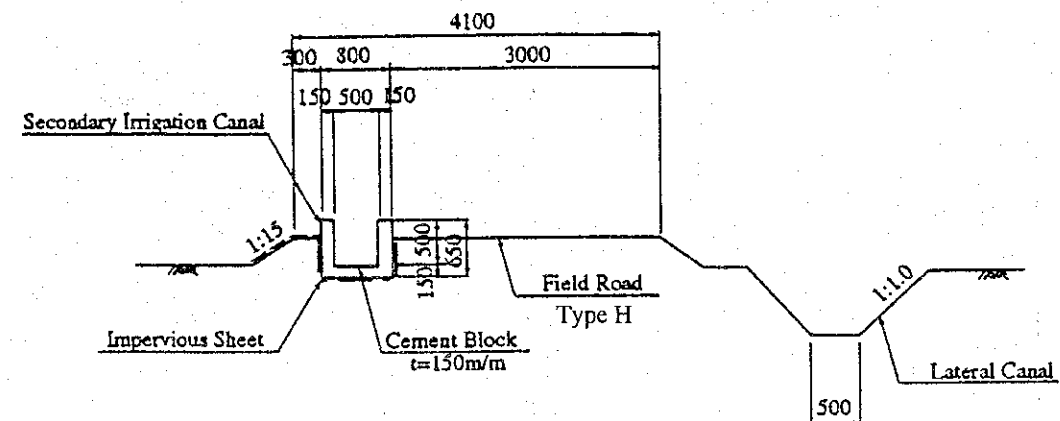
Type B



Type C

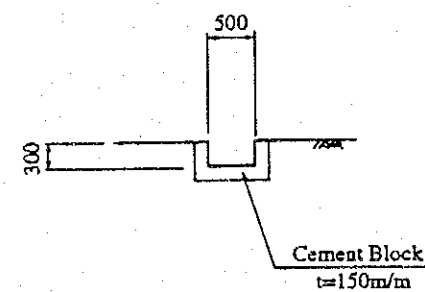


Secondary Irrigation Canal, Lateral Canal

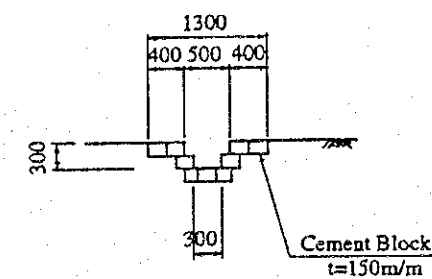


Bypass Canal

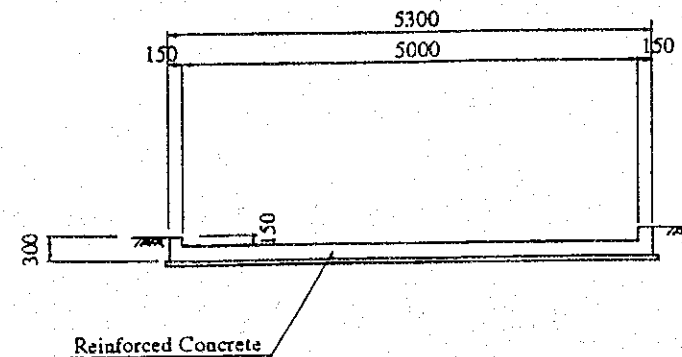
Type A



Type B

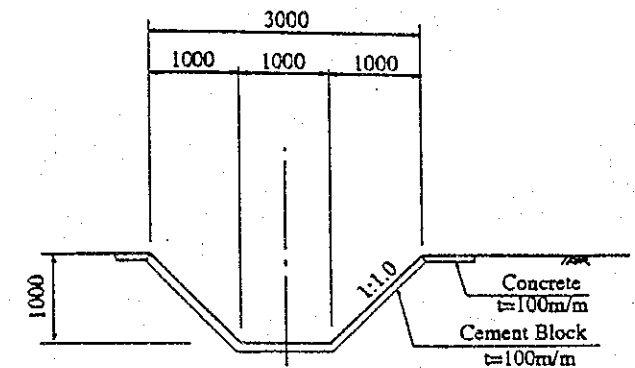


Type C

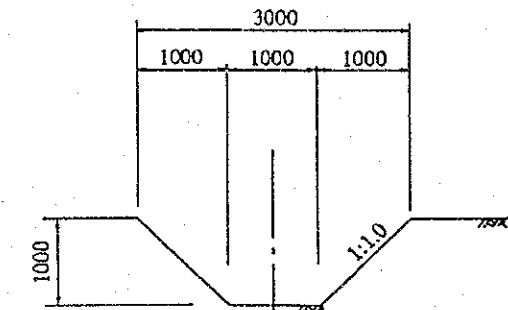


Main Drainage Canal

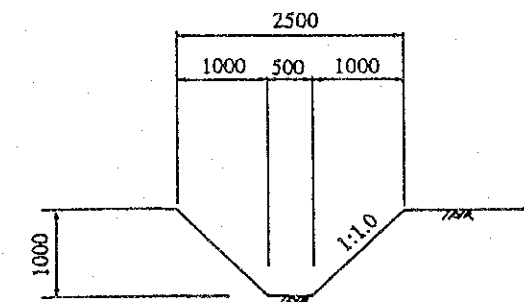
Type A



Type B



Type C



REPUBLIC OF ZAMBIA	
THE BASIC DESIGN STUDY ON MONGU RURAL DEVELOPMENT PROJECT	
Canal Standard Cross Section	
JAPAN INTERNATIONAL COOPERATION AGENCY	
DWG. No. 7	SHEET

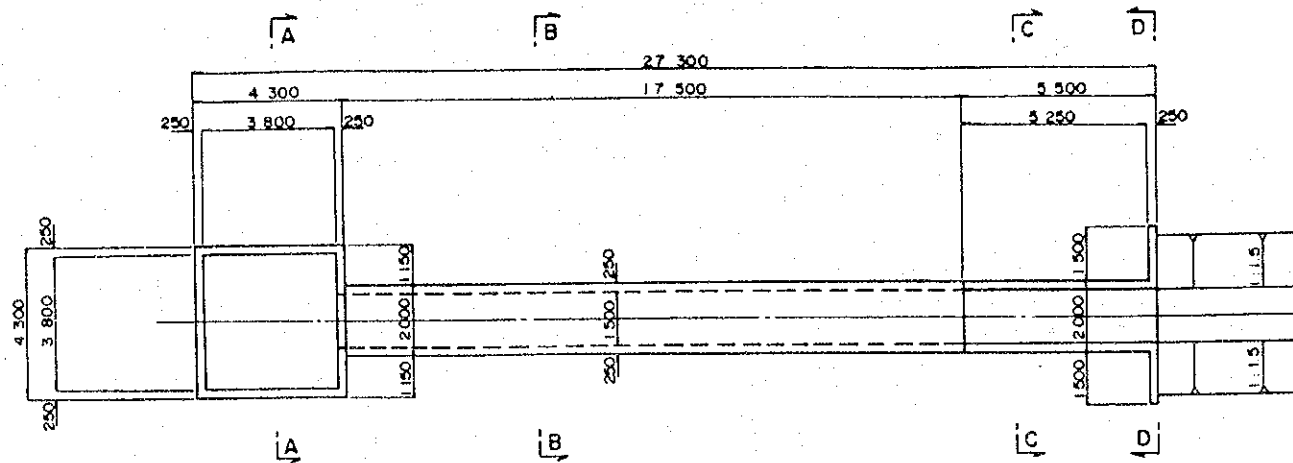
[illegible]

Diagram illustrating the cross-section of a bridge structure. The diagram shows the ground line, crest, design river bed, and cut vine. Key elevation markers are provided: v EL = 1019.60, v EL = 1017.15, v EL = 1015.65, and v EL = 1016.60. The diagram also indicates a 1500' dimension and a 1500' dimension.

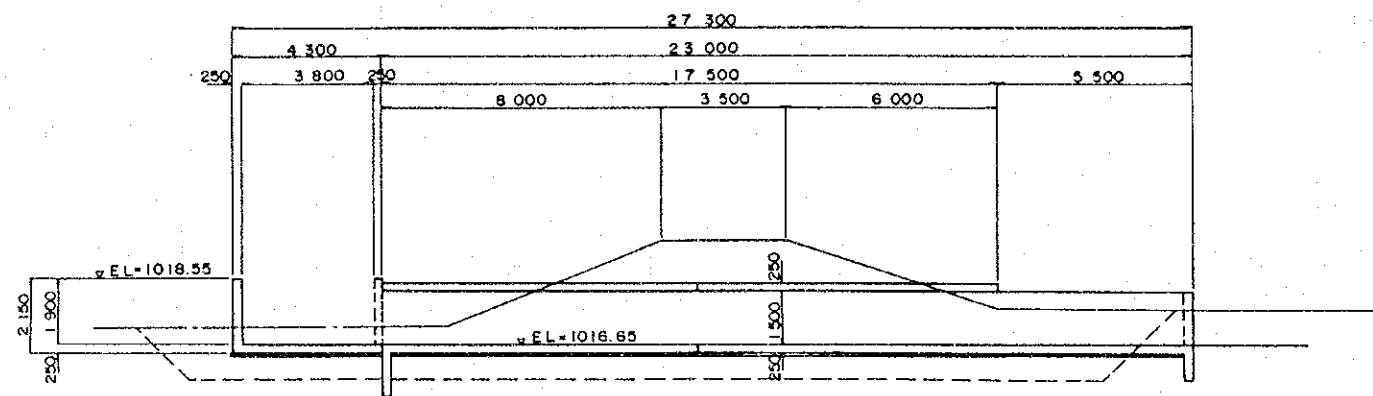
The diagram illustrates the cross-section of a bridge structure. The central part is a rectangular pier with a width of 3.500m, divided into three sections of 500m, 2.500m, and 500m. The pier is supported by a foundation of 'Laterite Pavement' with a thickness of $t = 200\text{mm}$. The pier is surrounded by 'Sand Mixed with Cement' with a thickness of $t = 200\text{mm/m}$. The bridge deck is shown with a top surface at $\nabla \text{EL} = 1019.60$ and a bottom surface at $\nabla \text{EL} = 1015.65$. The bridge is supported by a 'Cut Line' on the right side, which is at $\nabla \text{EL} = 1017.65$. The left side of the bridge is supported by a 'Design River Bed' at $\nabla \text{EL} = 1017.15$. The bridge deck is shown with a slope of 1:2.5 on both sides. The bridge is supported by 'Impervious Materials' at the base. The bridge is shown with a 'Sodding' layer on the right side.

DWG. No.	8	SHEET	1 of 2
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Plan of Spillway



Cross Section of Spillway

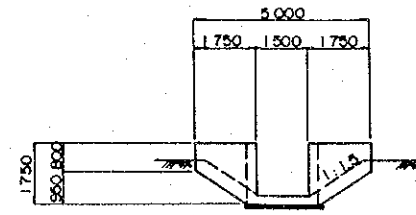
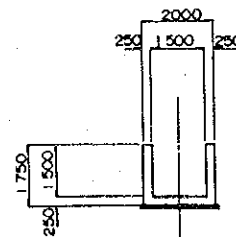
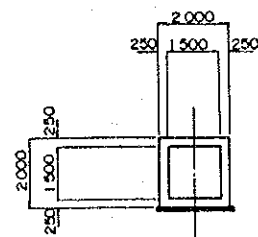
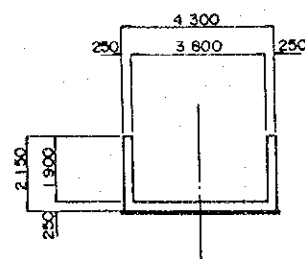


A - A

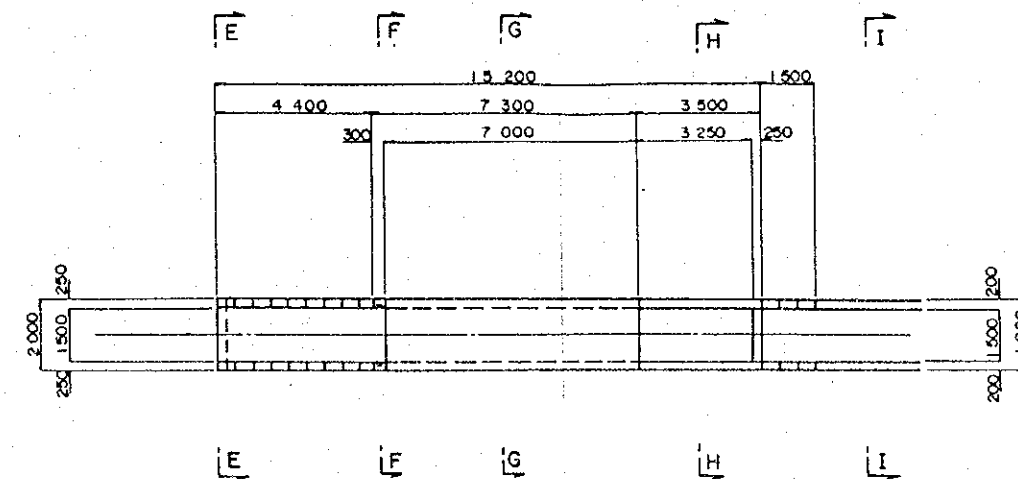
B - B

C - C

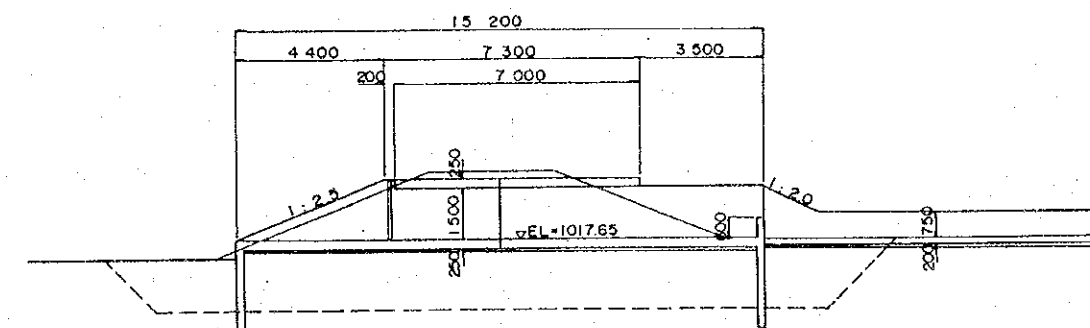
D - D



Plan of Intake Works



Cross Section of Intake Works



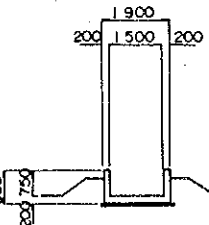
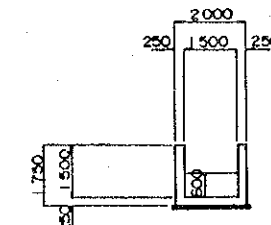
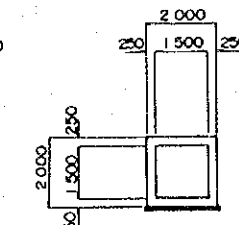
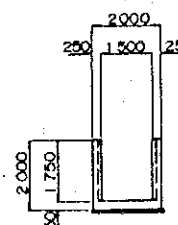
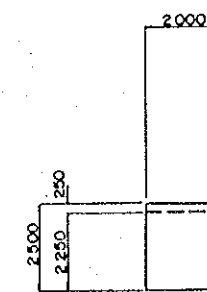
E - E

F - F

G - G

H - H

I - I



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THE BASIC DESIGN STUDY ON
MONGU RURAL DEVELOPMENT PROJECT

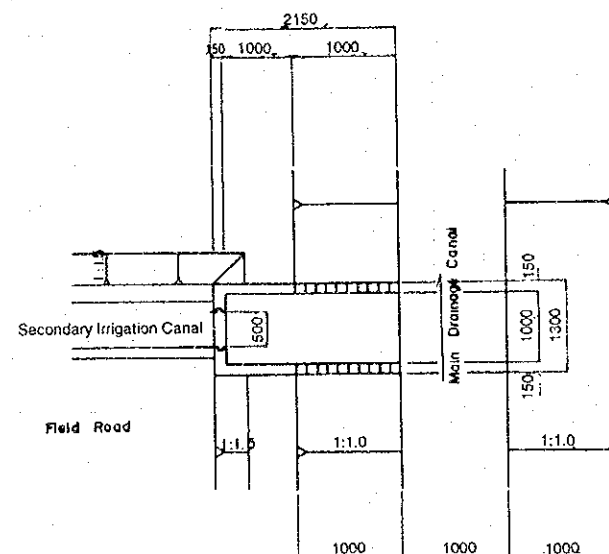
Sand Trap

JAPAN INTERNATIONAL COOPERATION AGENCY

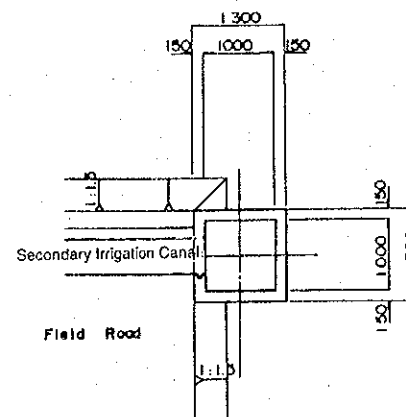
DWG. No. 9 SHEET 2 of 2

Outflow Works

Type A

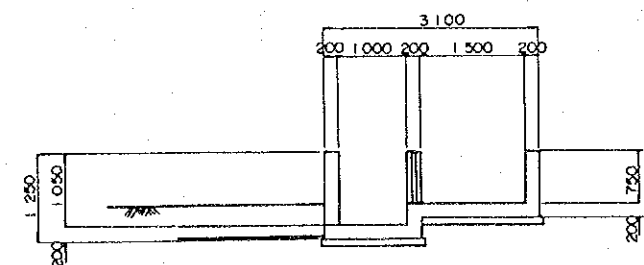
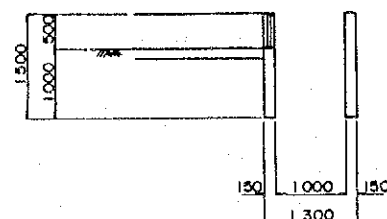
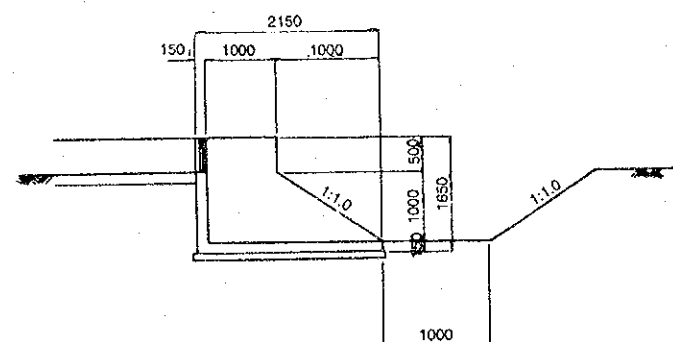
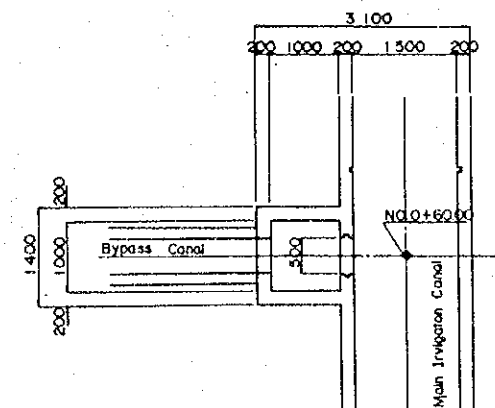


Type B



NO.1 Division Works

(Type A)



REPUBLIC OF ZAMBIA

THE BASIC DESIGN STUDY ON
MONGU RURAL DEVELOPMENT PROJECT

Out Flow Works, Division Works (Type A)

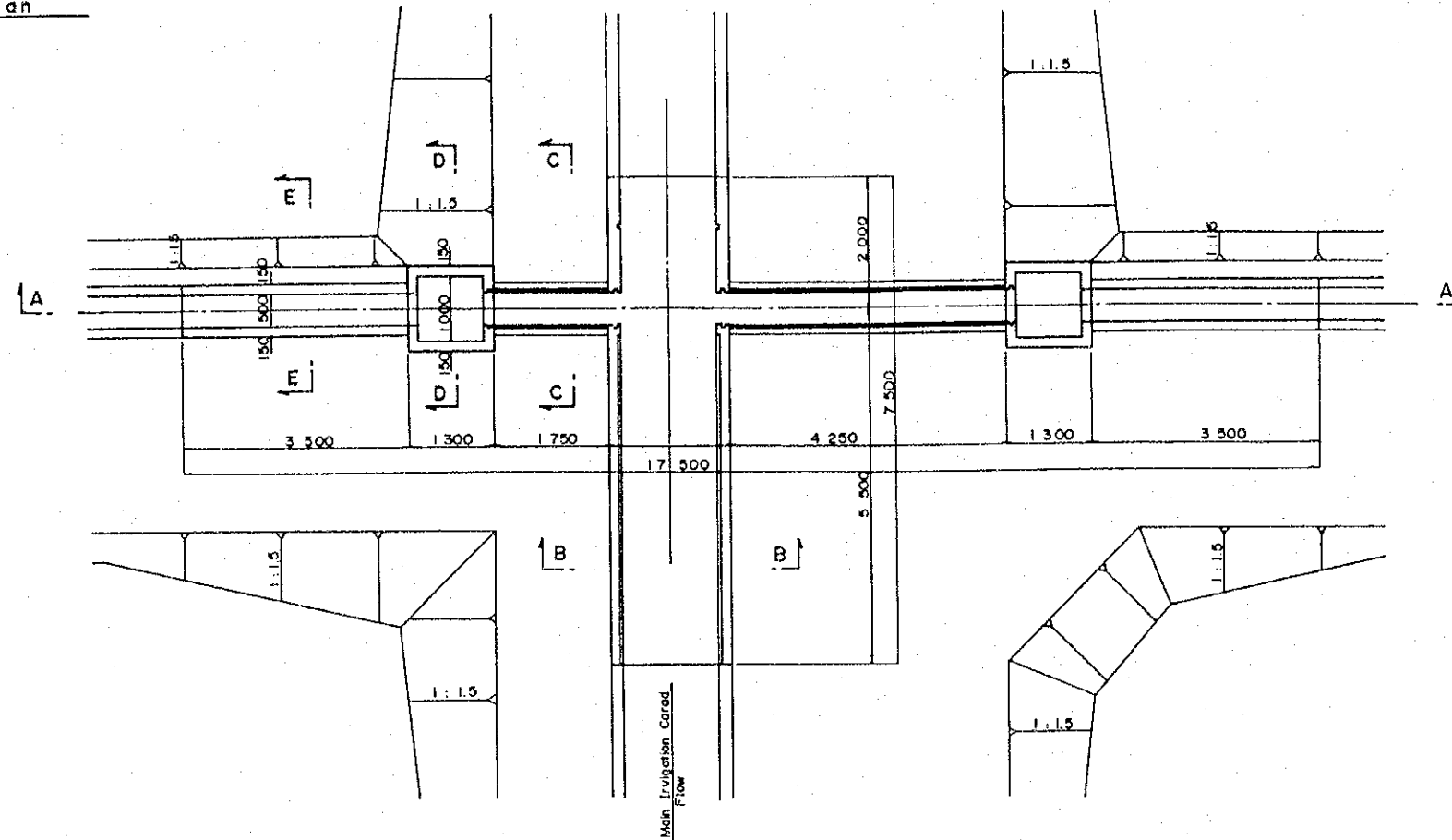
JAPAN INTERNATIONAL COOPERATION AGENCY

DWG. No.

10

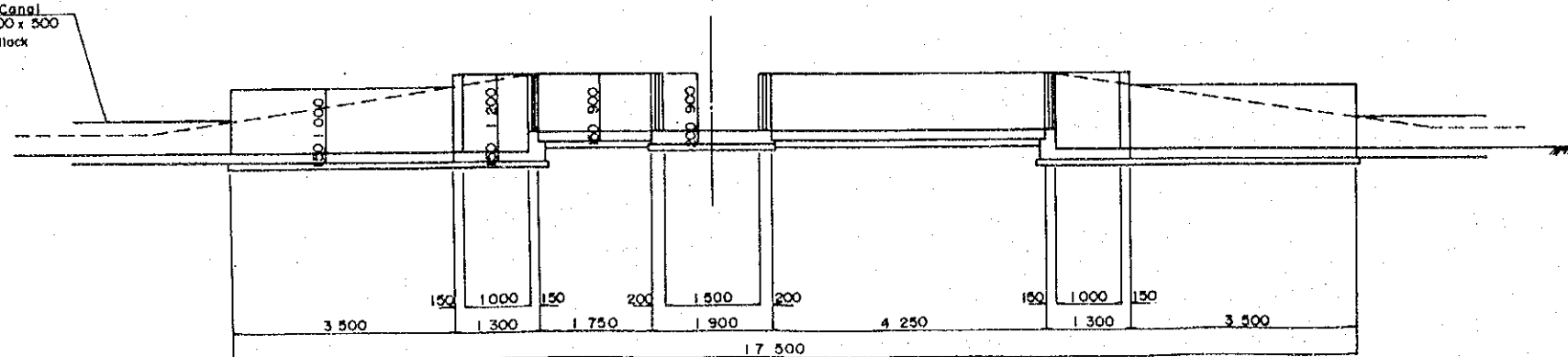
SHEET

Plan

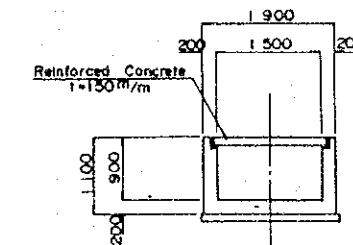


A - A

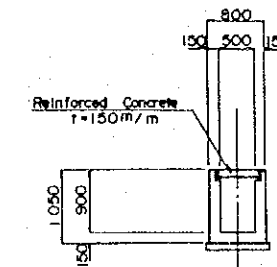
Secondary Canal
B x H = 500 x 500
Cement Block



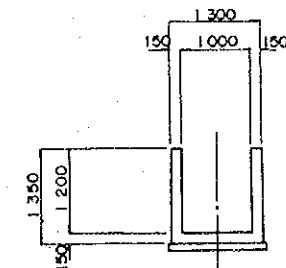
B - B



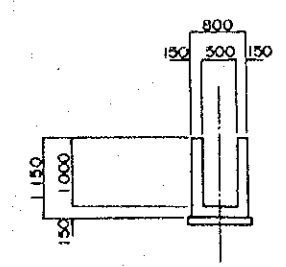
C - C



D - D



E - E



REPUBLIC OF ZAMBIA

THE BASIC DESIGN STUDY ON
MONGU RURAL DEVELOPMENT PROJECT

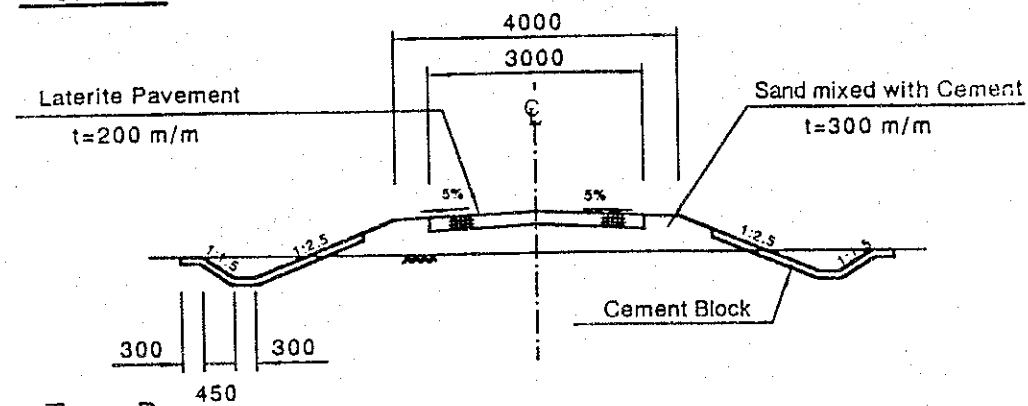
Out Flow Works, Division Works (Type B)

JAPAN INTERNATIONAL COOPERATION AGENCY

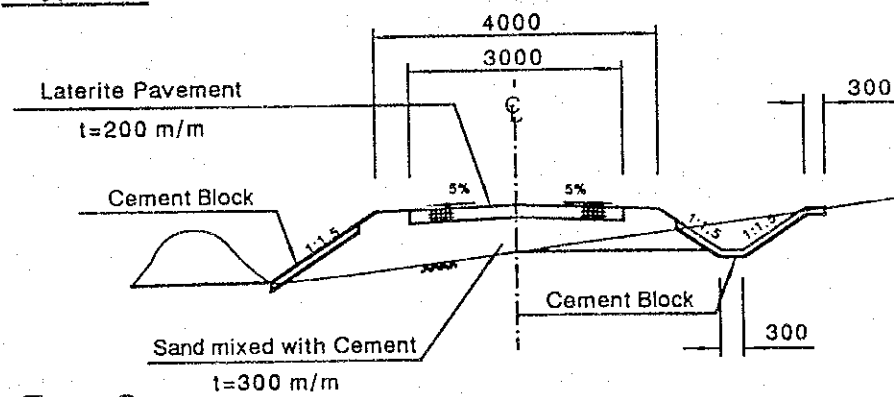
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SHEET

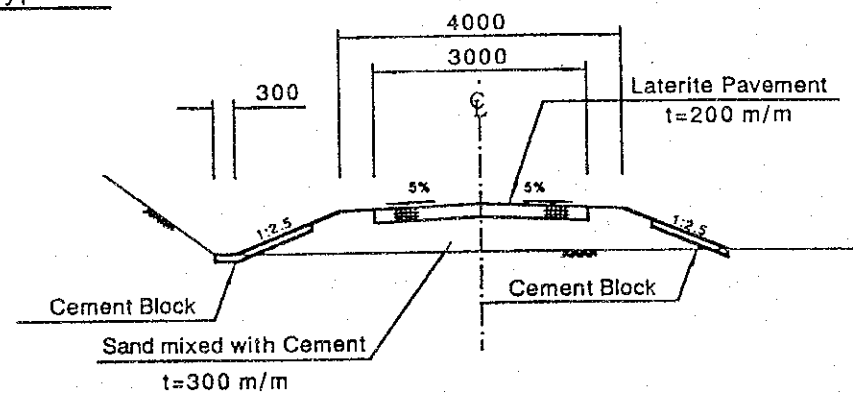
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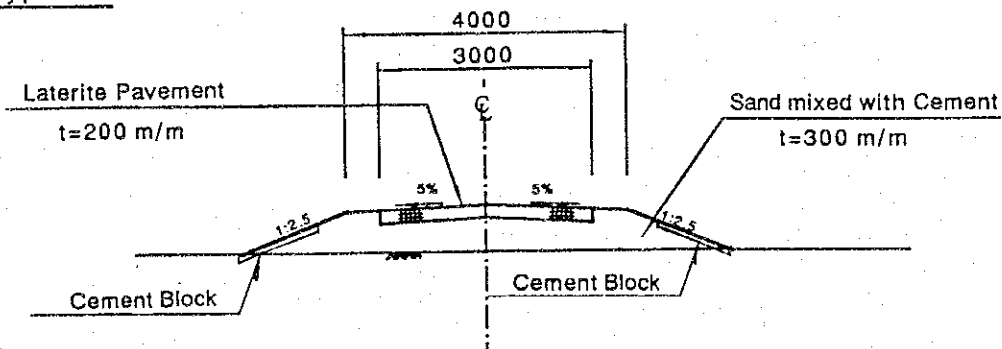
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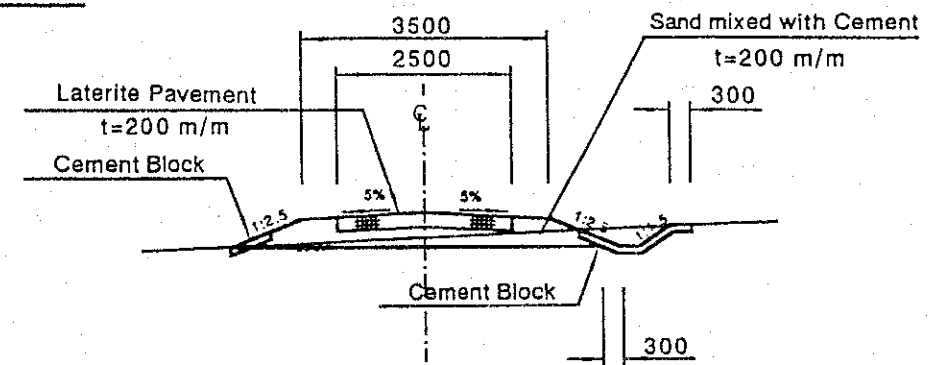
Type C



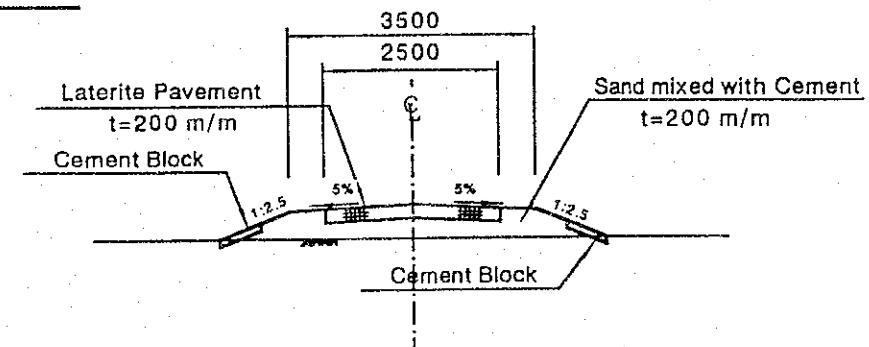
Type D



Type E



Type F



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THE BASIC DESIGN STUDY ON
MONGU RURAL DEVELOPMENT PROJECT

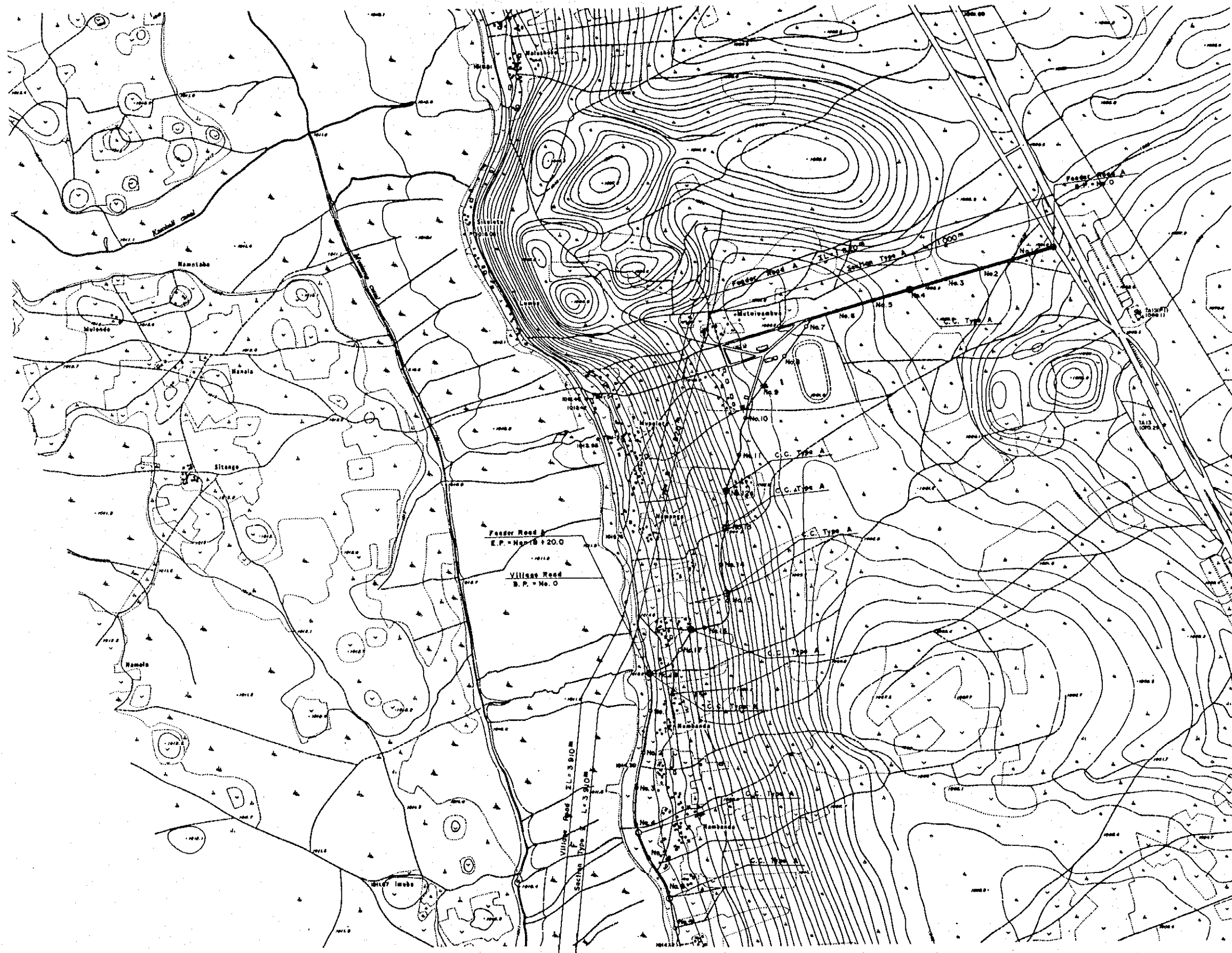
Roads Standard Cross Section

JAPAN INTERNATIONAL COOPERATION AGENCY

DWG. No.

12

SHEET



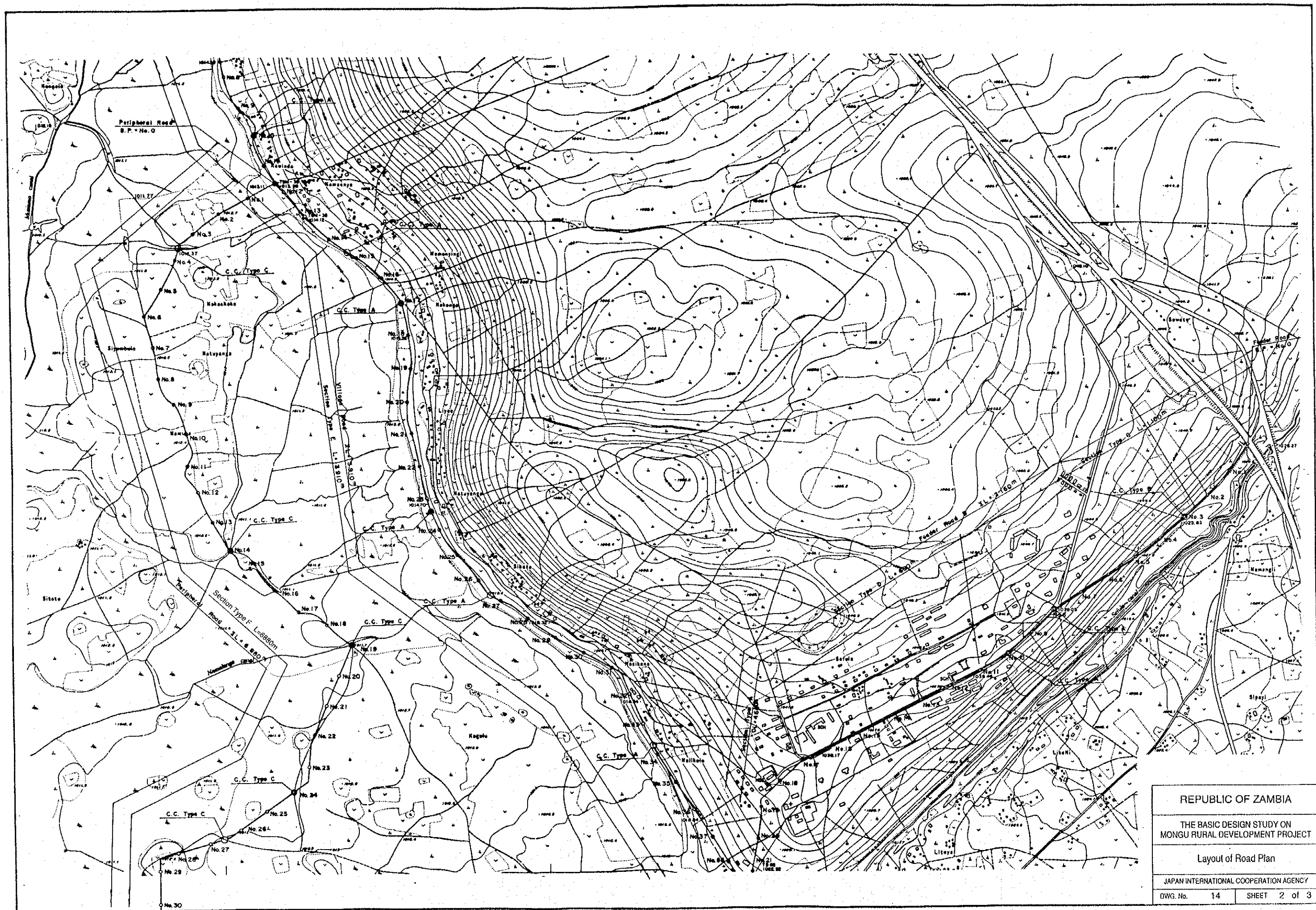
REPUBLIC OF ZAMBIA

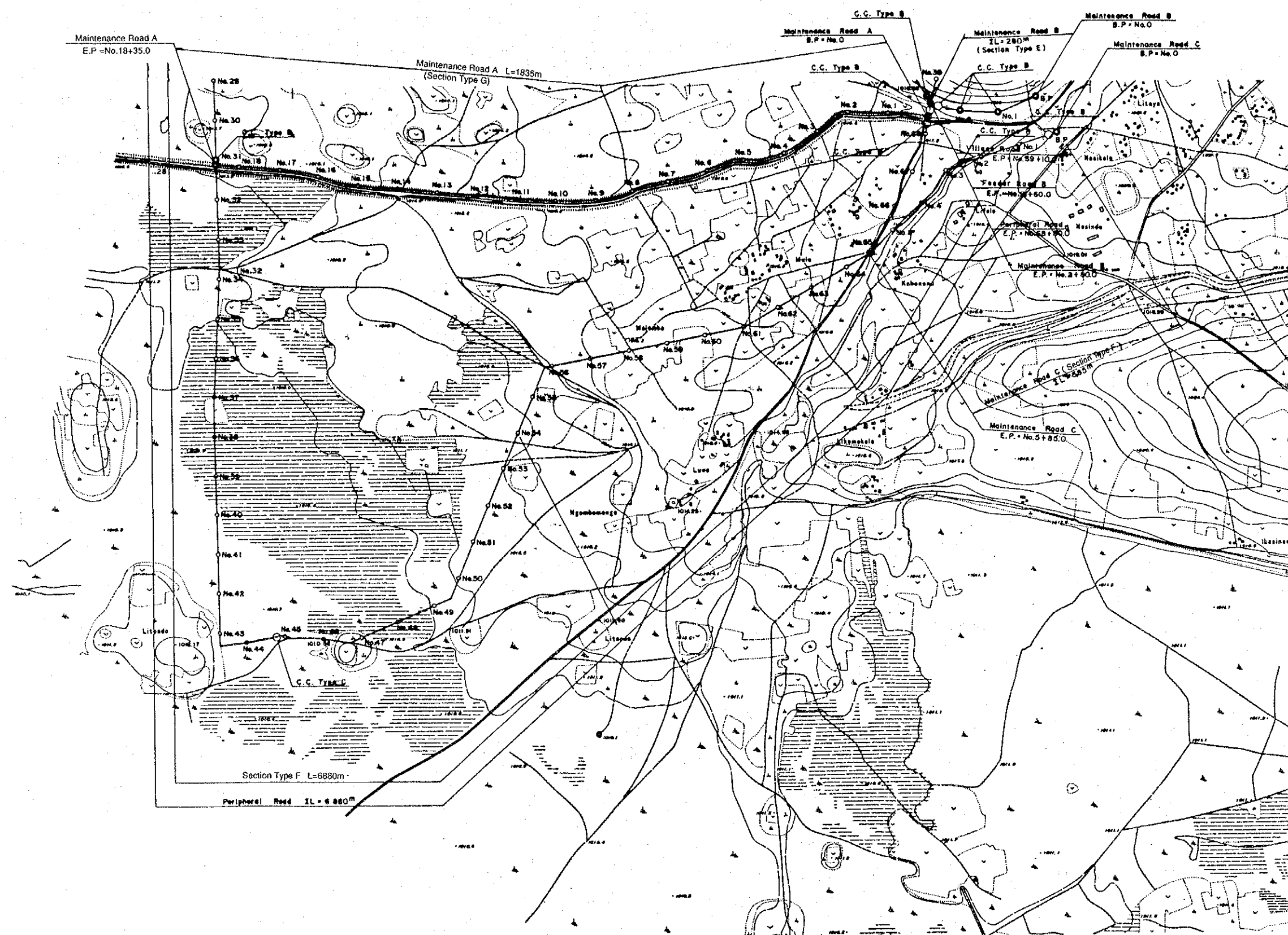
THE BASIC DESIGN STUDY ON
MONGU RURAL DEVELOPMENT PROJECT

Layout of Road Plan

JAPAN INTERNATIONAL COOPERATION AGENCY

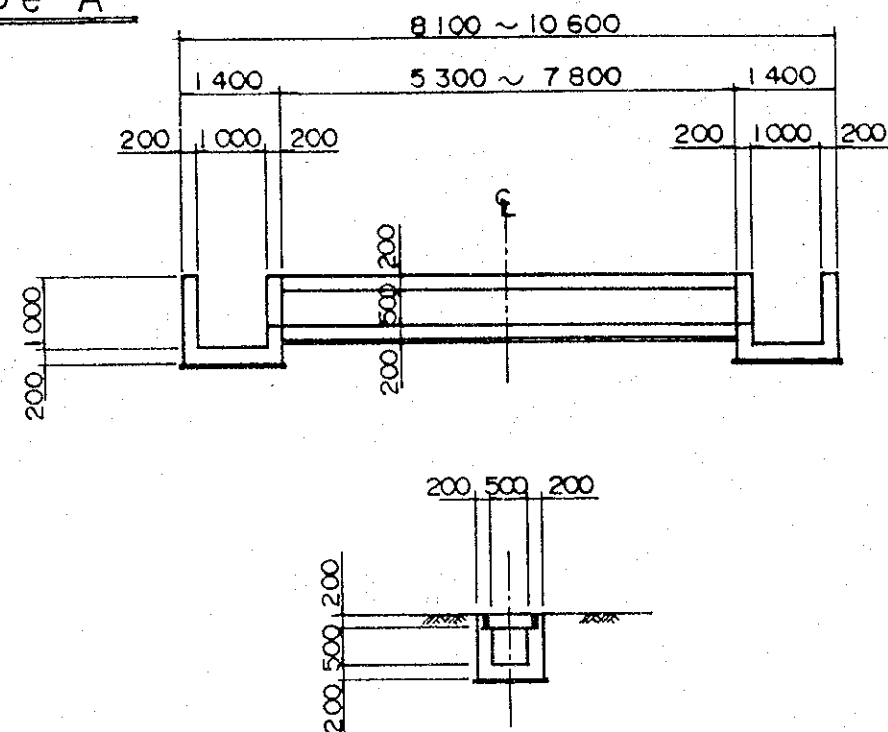
DWG. No. 13 SHEET 1 of 3



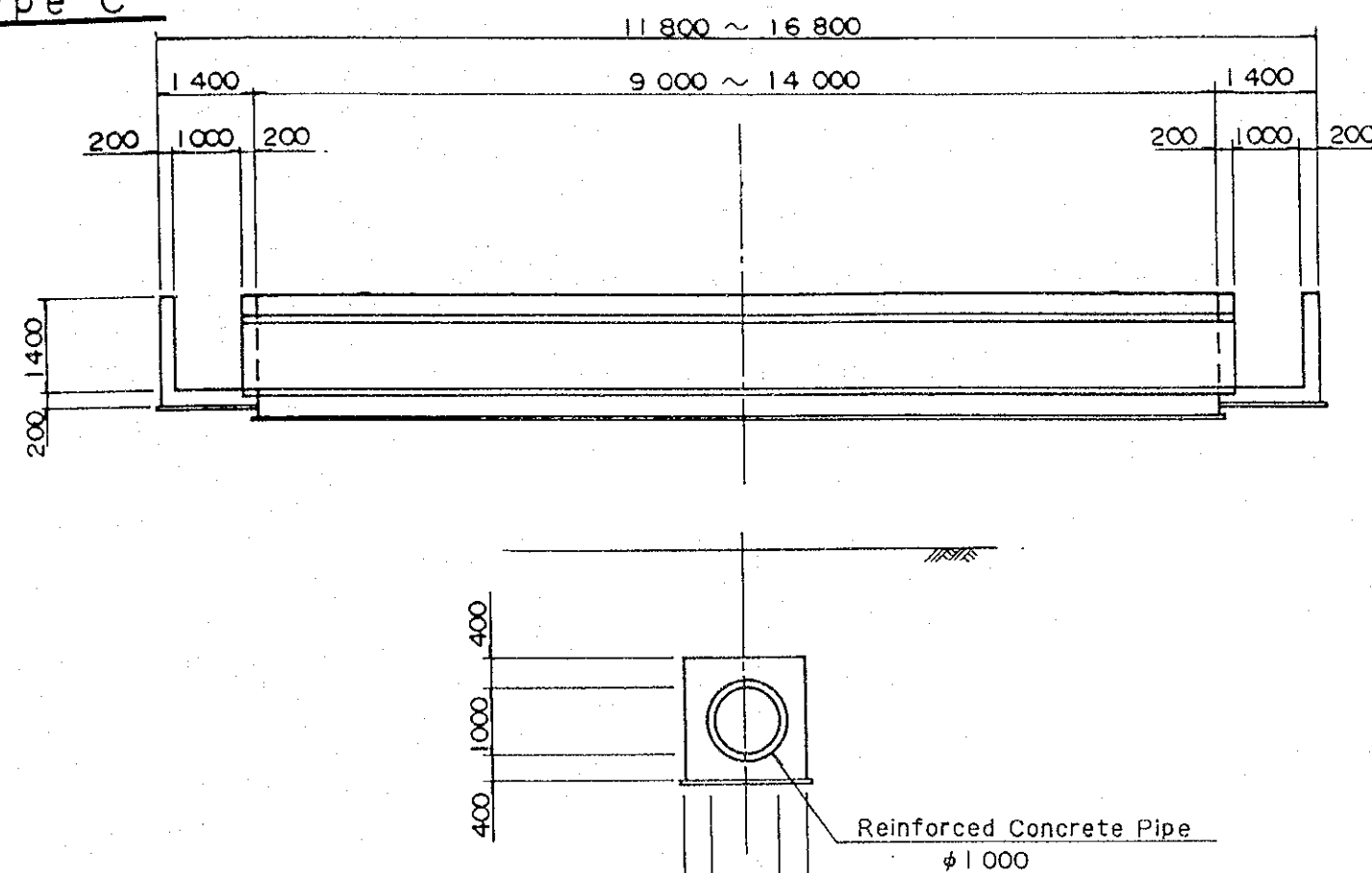


REPUBLIC OF ZAMBIA		
THE BASIC DESIGN STUDY ON MONGU RURAL DEVELOPMENT PROJECT		
Layout of Road Plan		
JAPAN INTERNATIONAL COOPERATION AGENCY		
DWG. No.	15	SHEET 3 of 3

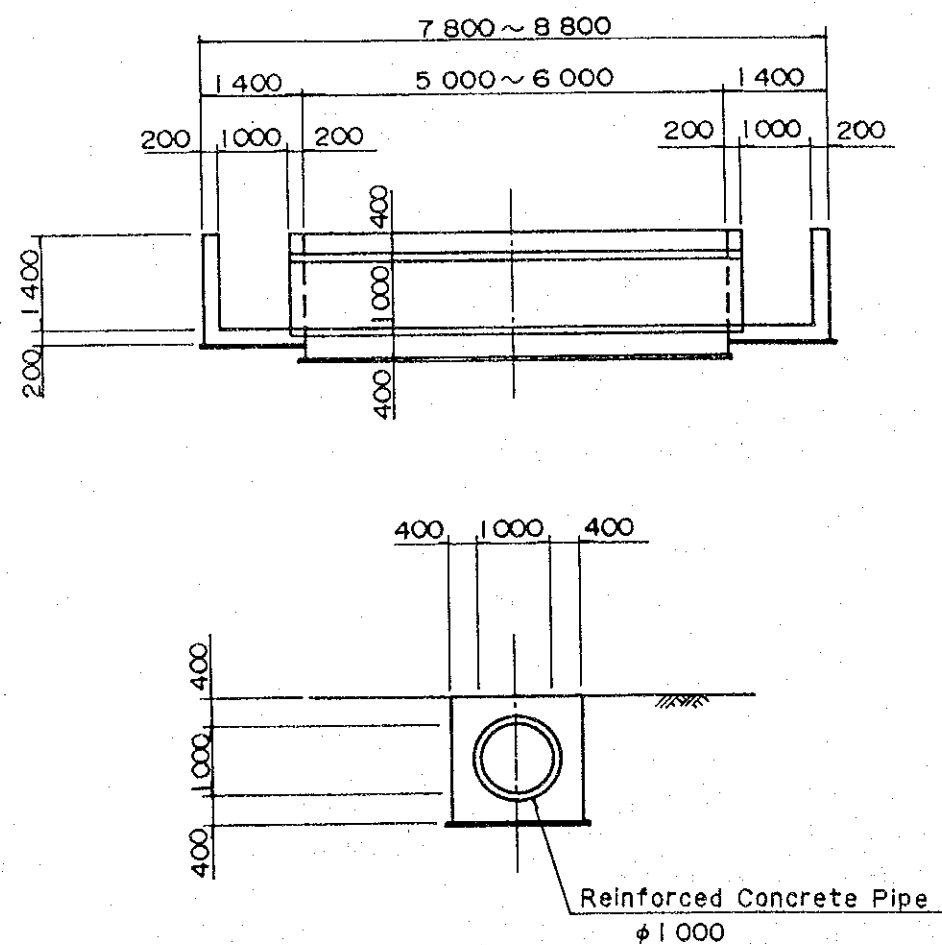
Type A



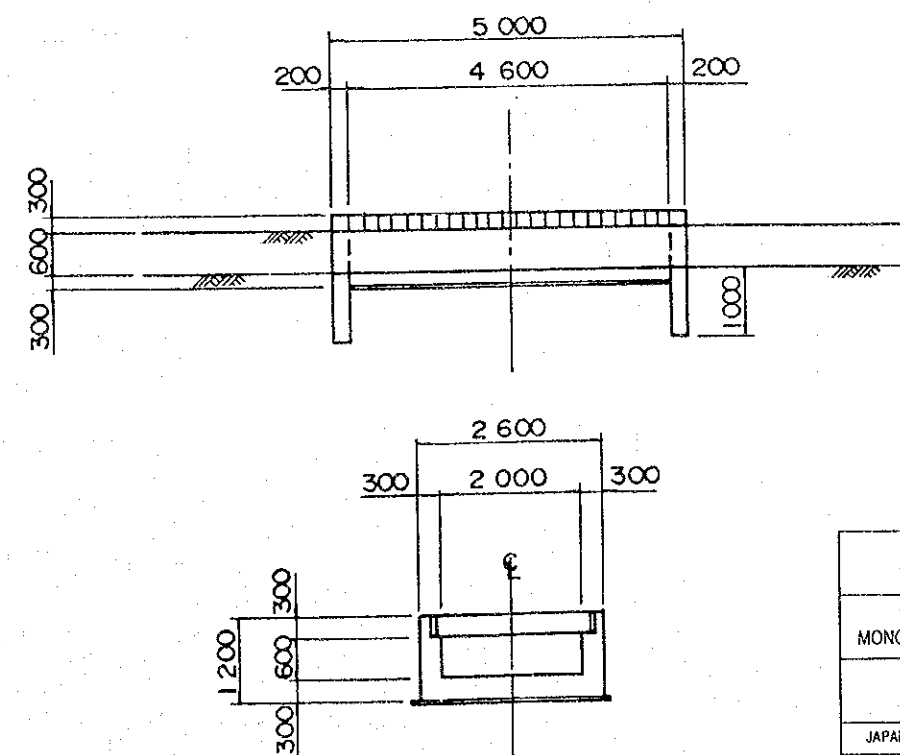
Type C



Type B



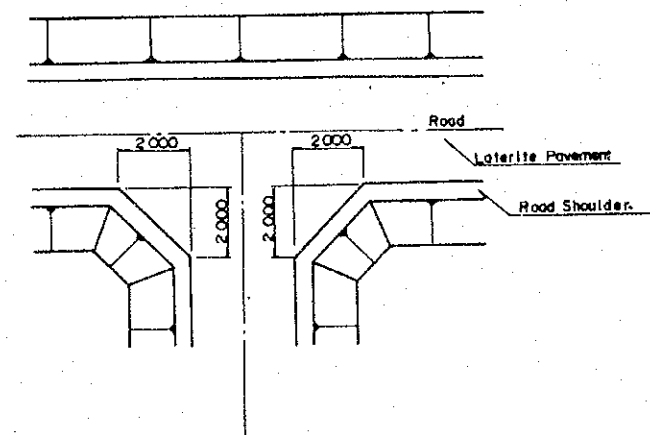
Type D



REPUBLIC OF ZAMBIA		
THE BASIC DESIGN STUDY ON MONGU RURAL DEVELOPMENT PROJECT		
Cross Culvert		
JAPAN INTERNATIONAL COOPERATION AGENCY		
DWG. No.	16	SHEET

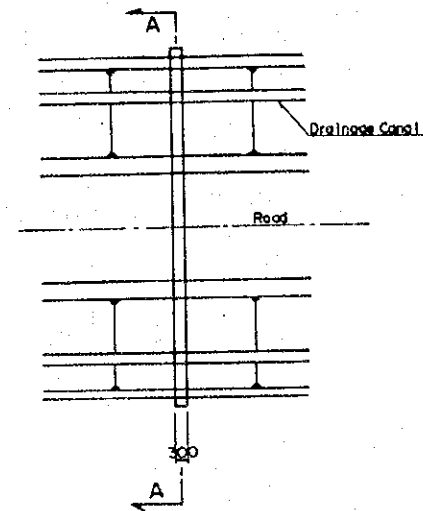
Intersection Type-A

Plan



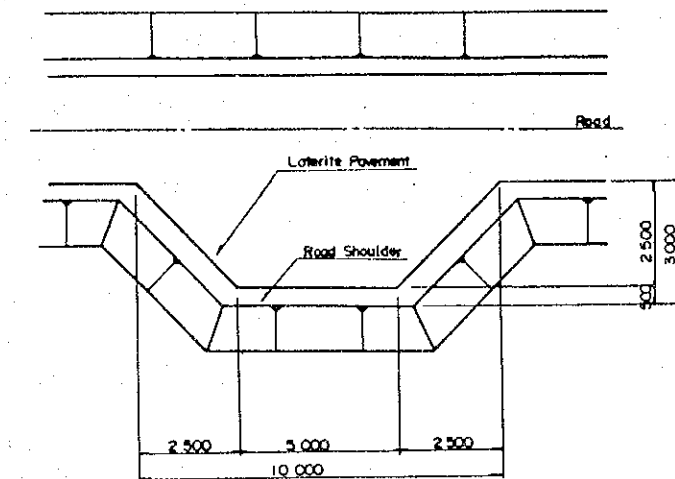
Cut Off Wall

Plan



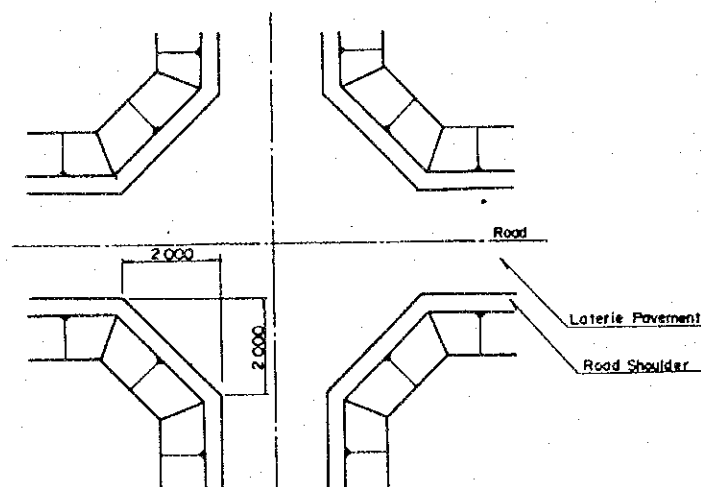
Turnout

Plan

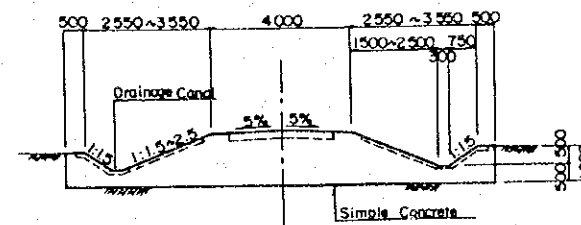


Intersection Type-B

Plan



A - A



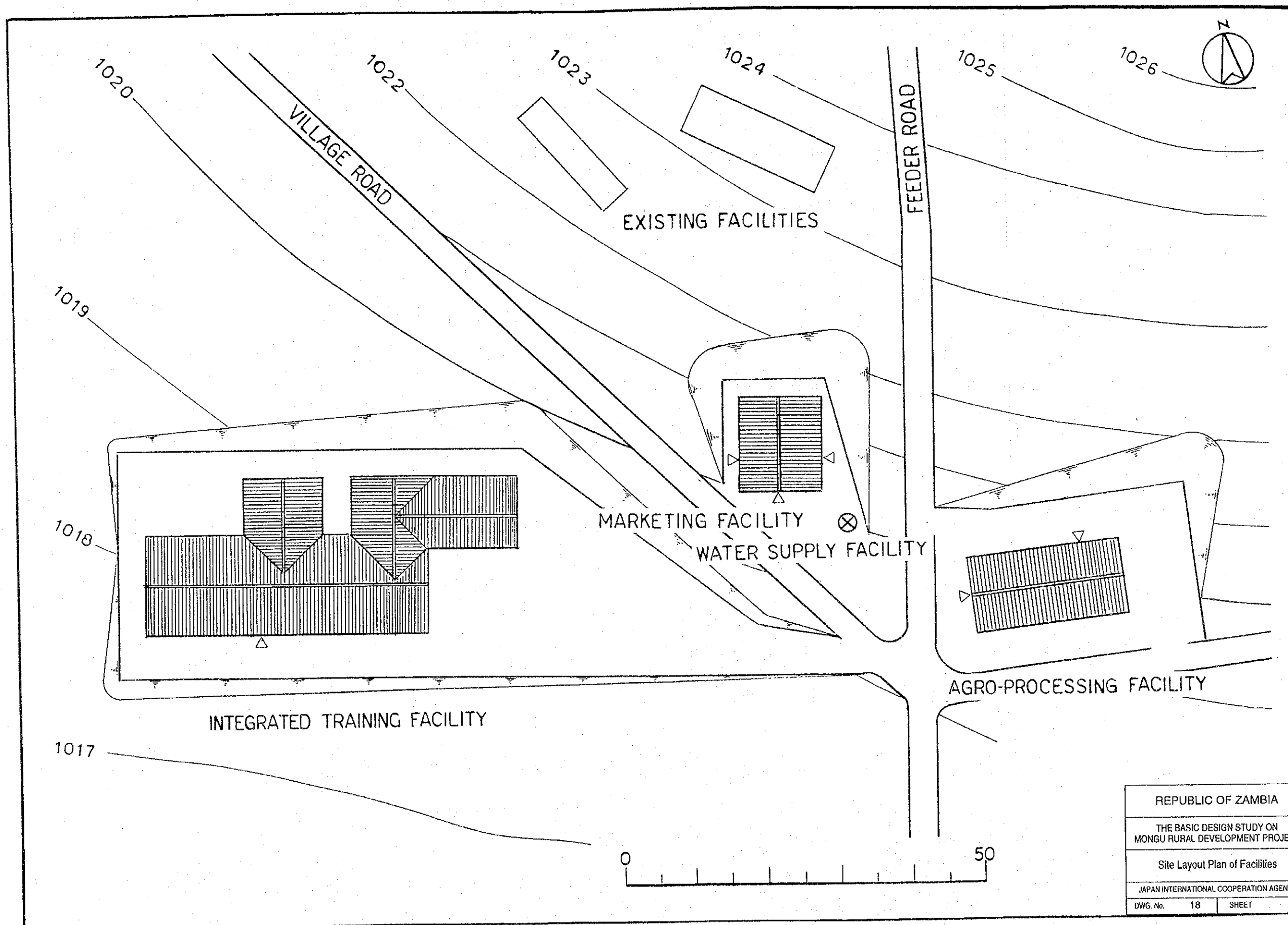
REPUBLIC OF ZAMBIA

THE BASIC DESIGN STUDY ON
MONGU RURAL DEVELOPMENT PROJECT

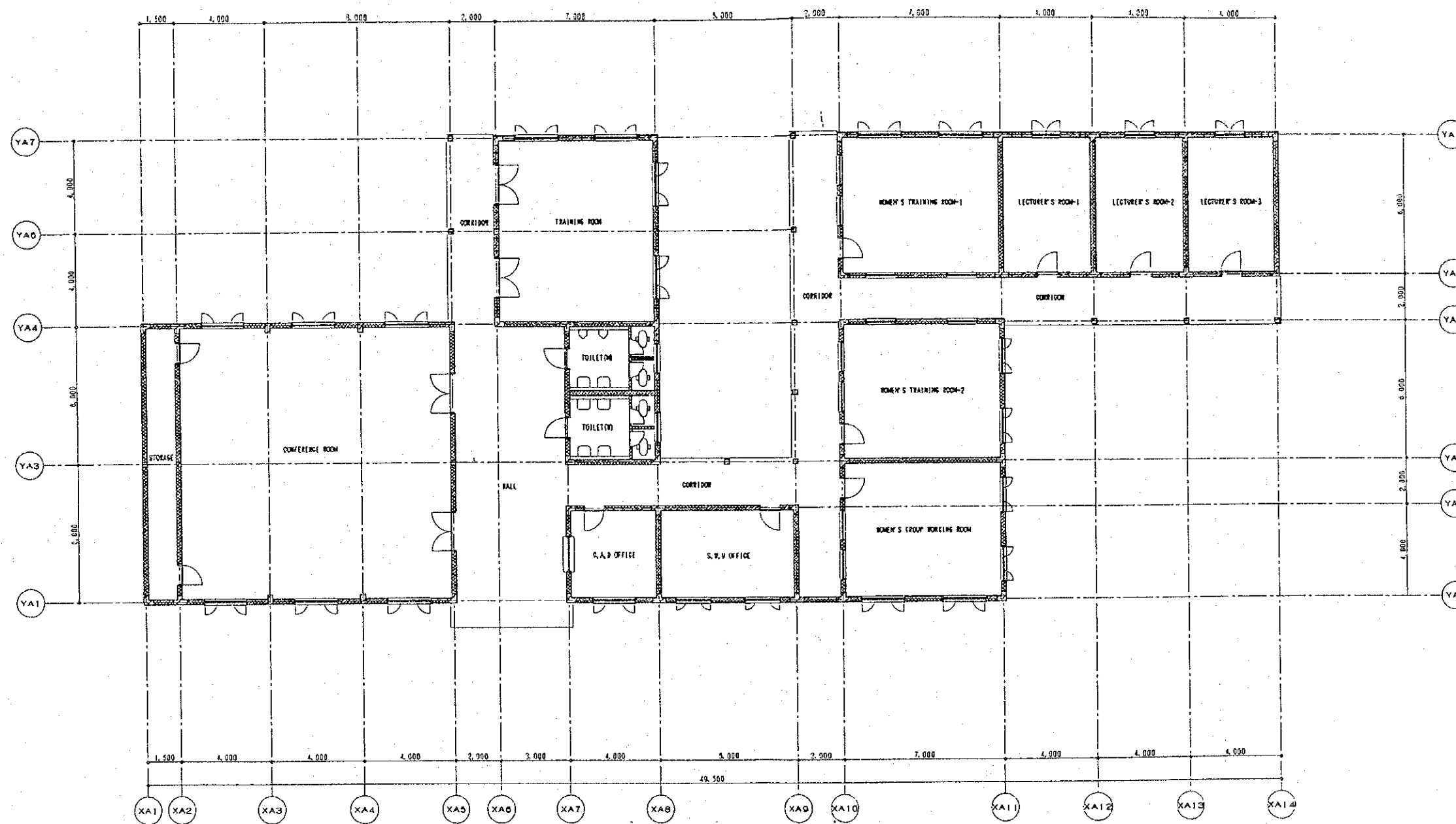
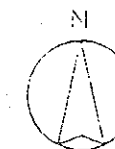
Appurtenant Facilities of Roads

JAPAN INTERNATIONAL COOPERATION AGENCY

DWG. No. 17 SHEET

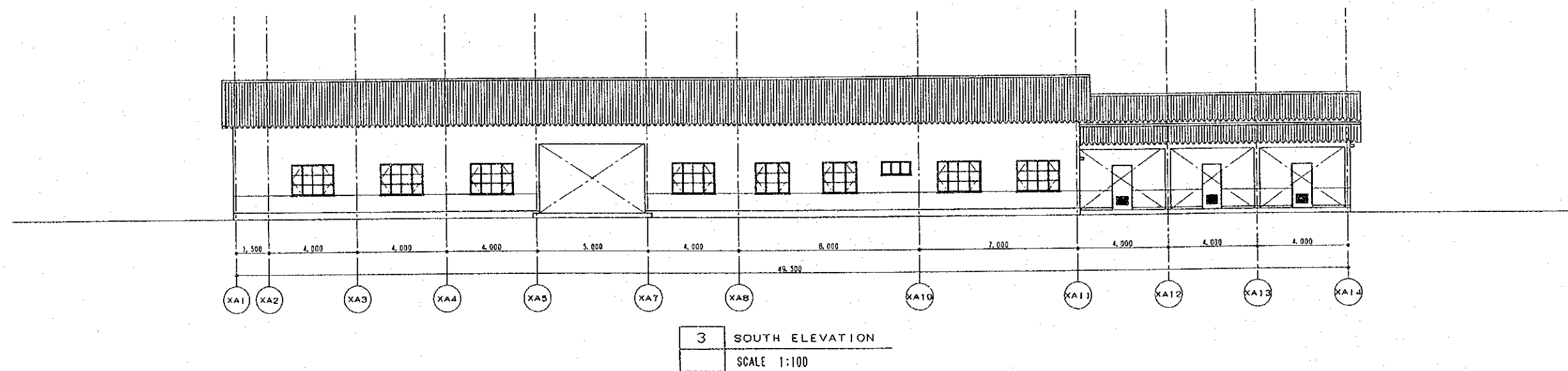
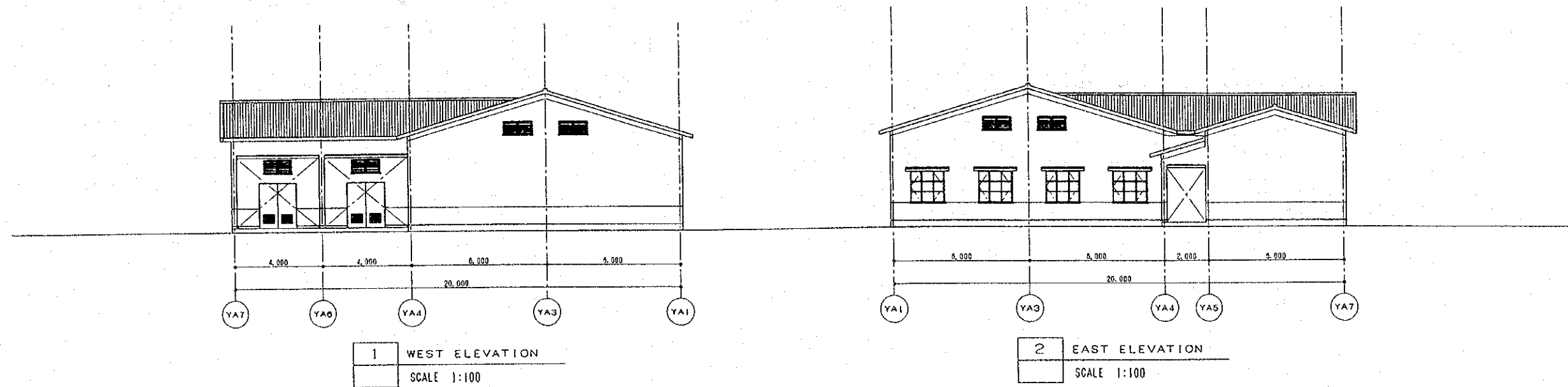


REPUBLIC OF ZAMBIA		
THE BASIC DESIGN STUDY ON MONGU RURAL DEVELOPMENT PROJECT		
Site Layout Plan of Facilities		
JAPAN INTERNATIONAL COOPERATION AGENCY		
DWG. No.	18	SHEET

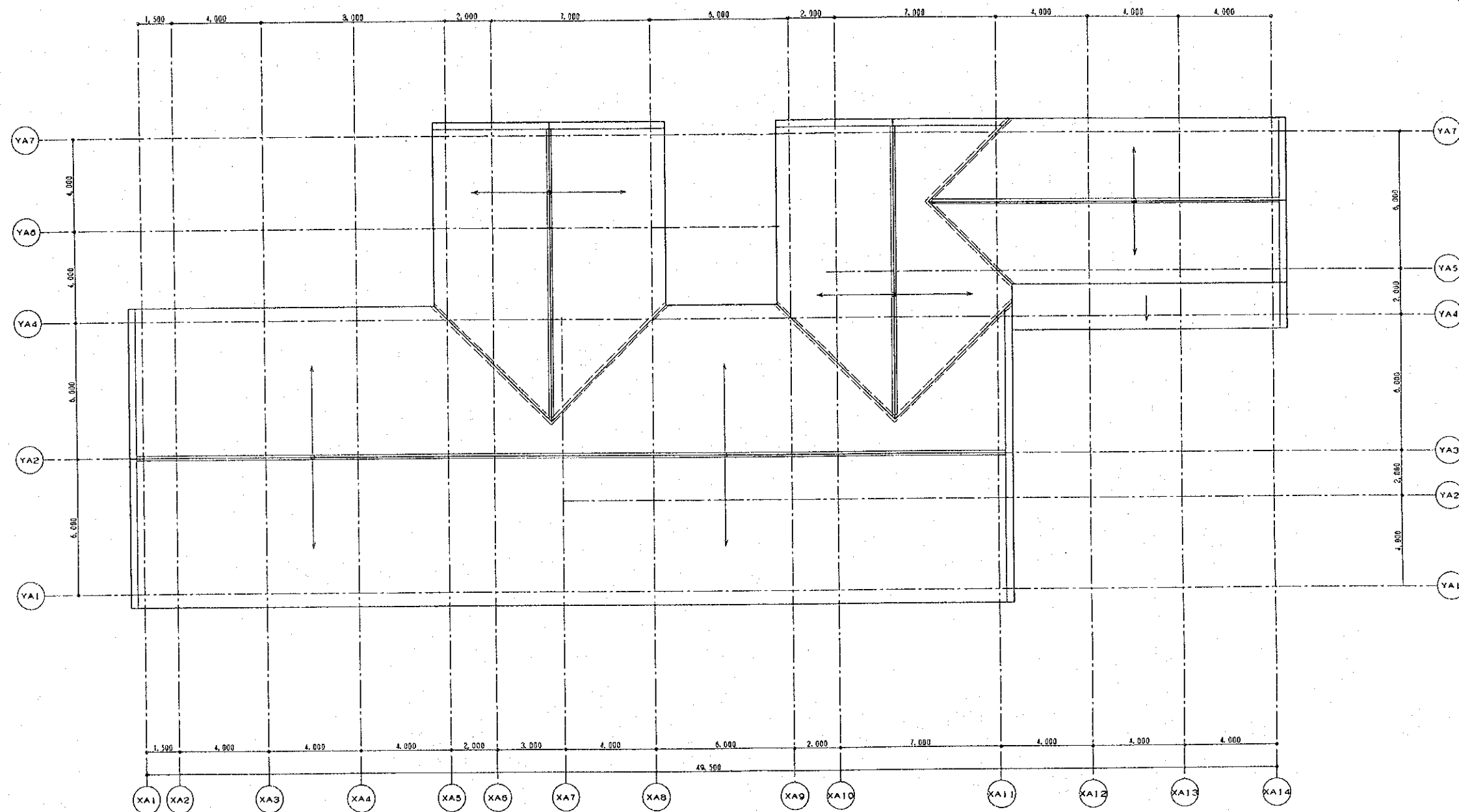
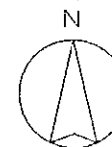


1 GROUND FLOOR PLAN
SCALE 1:100

REPUBLIC OF ZAMBIA	
THE BASIC DESIGN STUDY ON MONGU RURAL DEVELOPMENT PROJECT	
Extension Facility	
JAPAN INTERNATIONAL COOPERATION AGENCY	
DWG. No. 19	SHEET 1 of 3

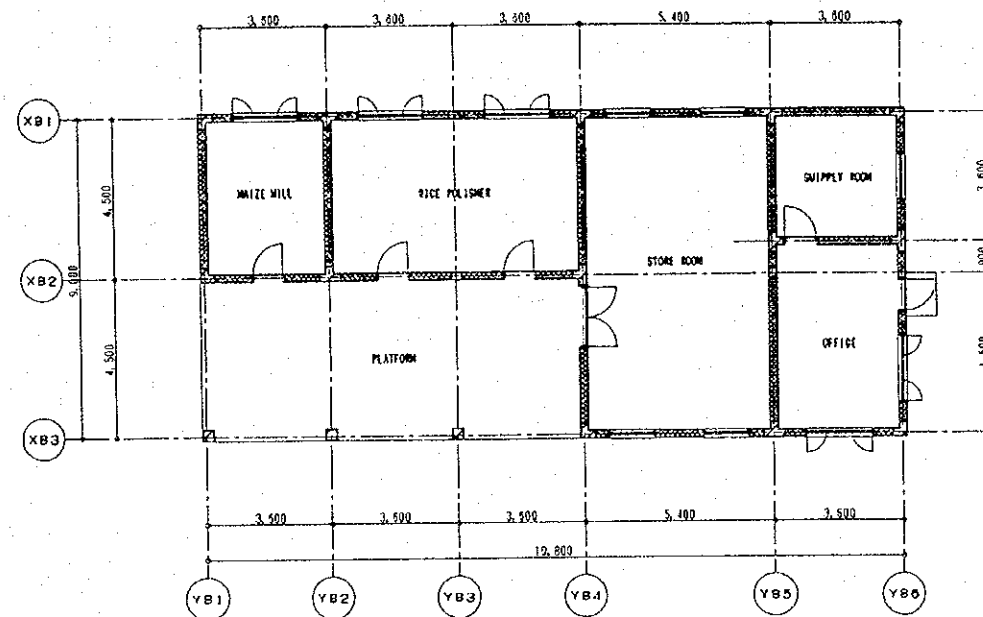


REPUBLIC OF ZAMBIA		
THE BASIC DESIGN STUDY ON MONGU RURAL DEVELOPMENT PROJECT		
Extension Facility		
JAPAN INTERNATIONAL COOPERATION AGENCY		
DWG. No.	20	SHEET 2 of 3

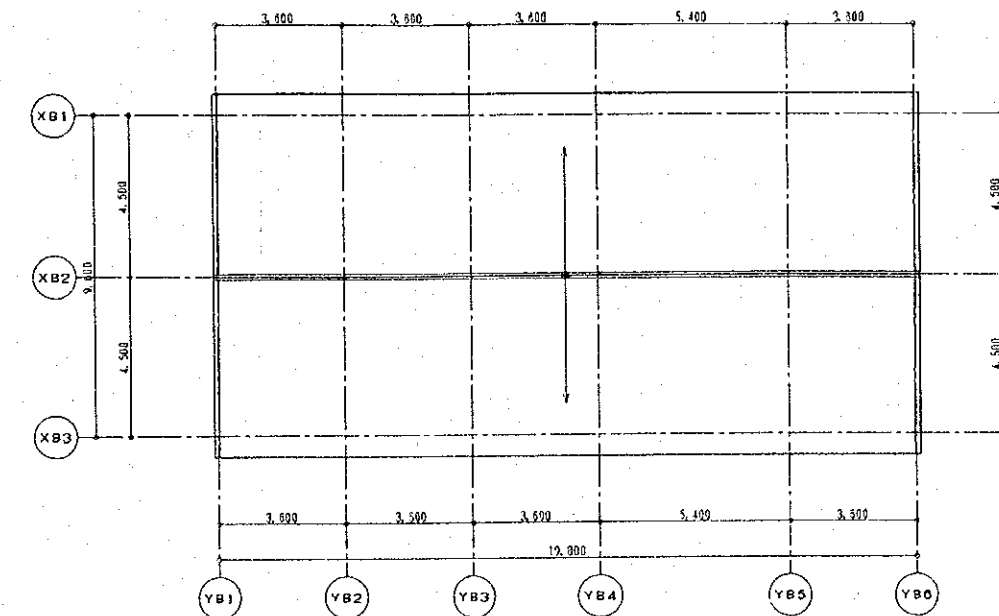


1	ROOF PLAN
	SCALE 1:100

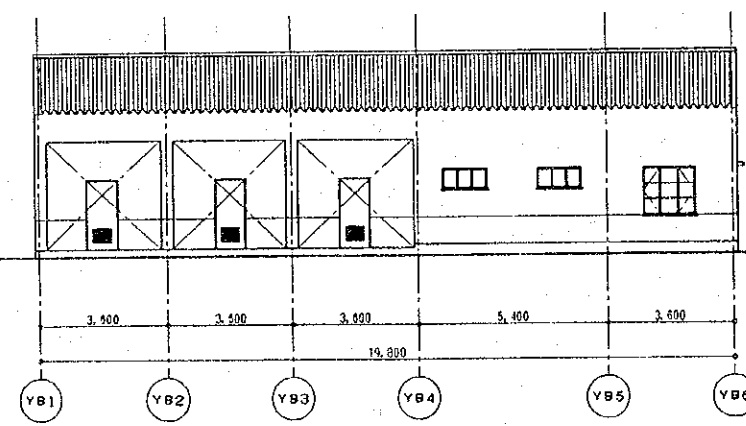
REPUBLIC OF ZAMBIA		
THE BASIC DESIGN STUDY ON MONGU RURAL DEVELOPMENT PROJECT		
Extension Facility		
JAPAN INTERNATIONAL COOPERATION AGENCY		
DWG. No.	21	SHEET 3 of 3



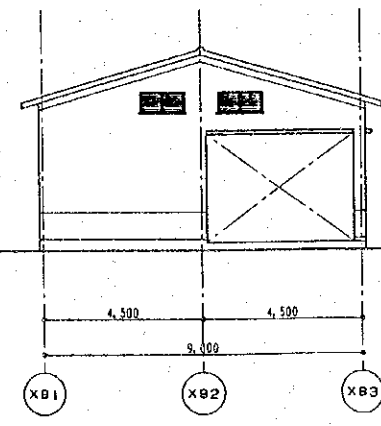
1 GROUND FLOOR PLAN
SCALE 1:100



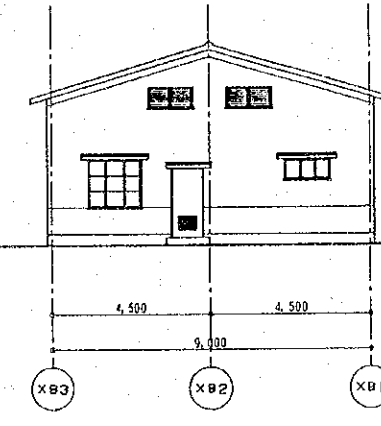
2 ROOF PLAN
SCALE 1:100



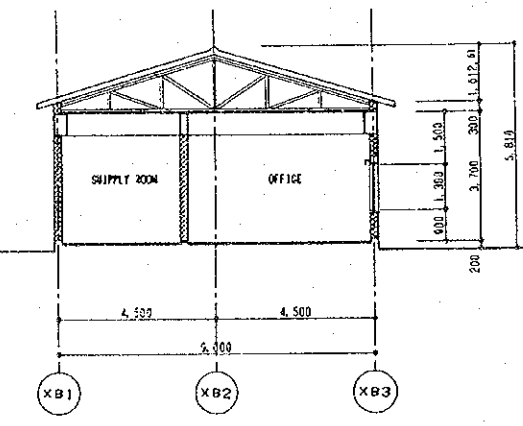
3 EAST ELEVATION
SCALE 1:100



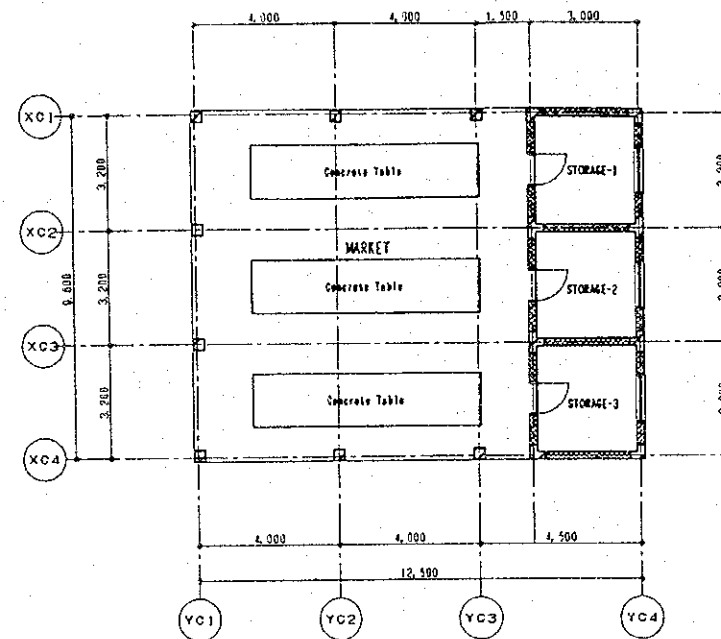
4 SOUTH ELEVATION
SCALE 1:100



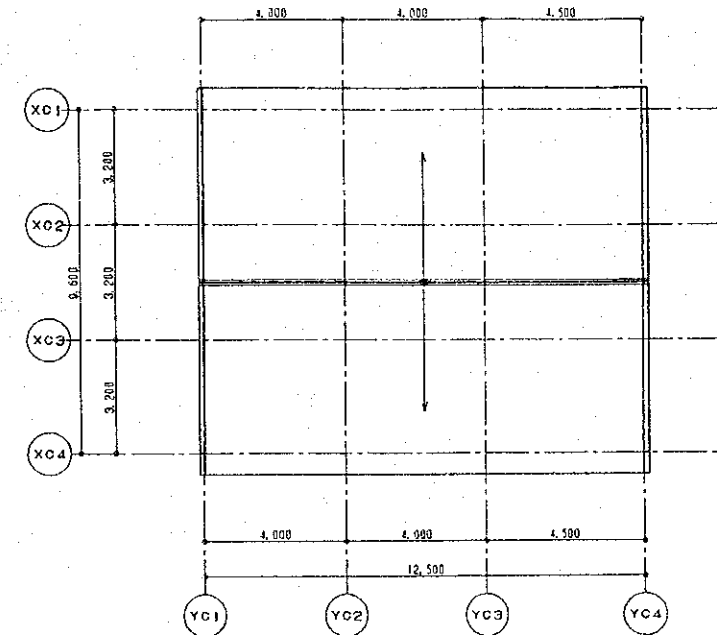
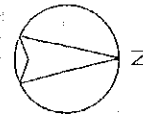
5 NORTH ELEVATION
SCALE 1:100



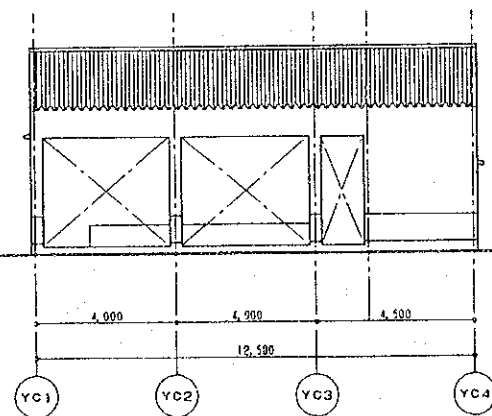
6 SECTION
SCALE 1:100



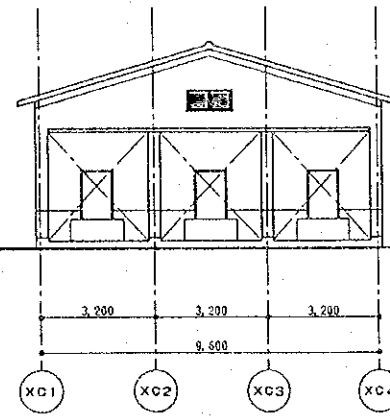
1 GROUND FLOOR PLAN
SCALE 1:100



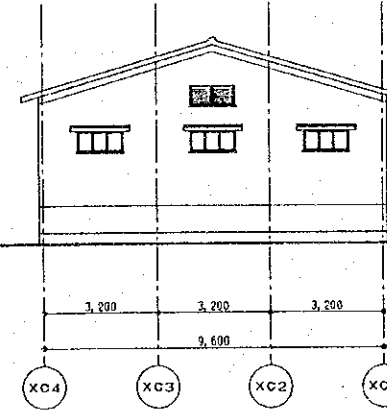
2 ROOF PLAN
SCALE 1:100



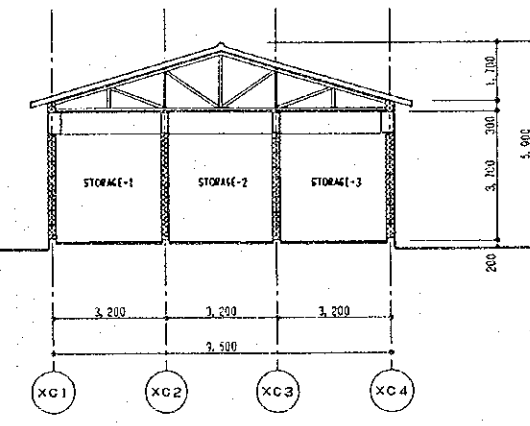
3 EAST ELEVATION
SCALE 1:100



4 SOUTH ELEVATION
SCALE 1:100



5 NORTH ELEVATION
SCALE 1:100

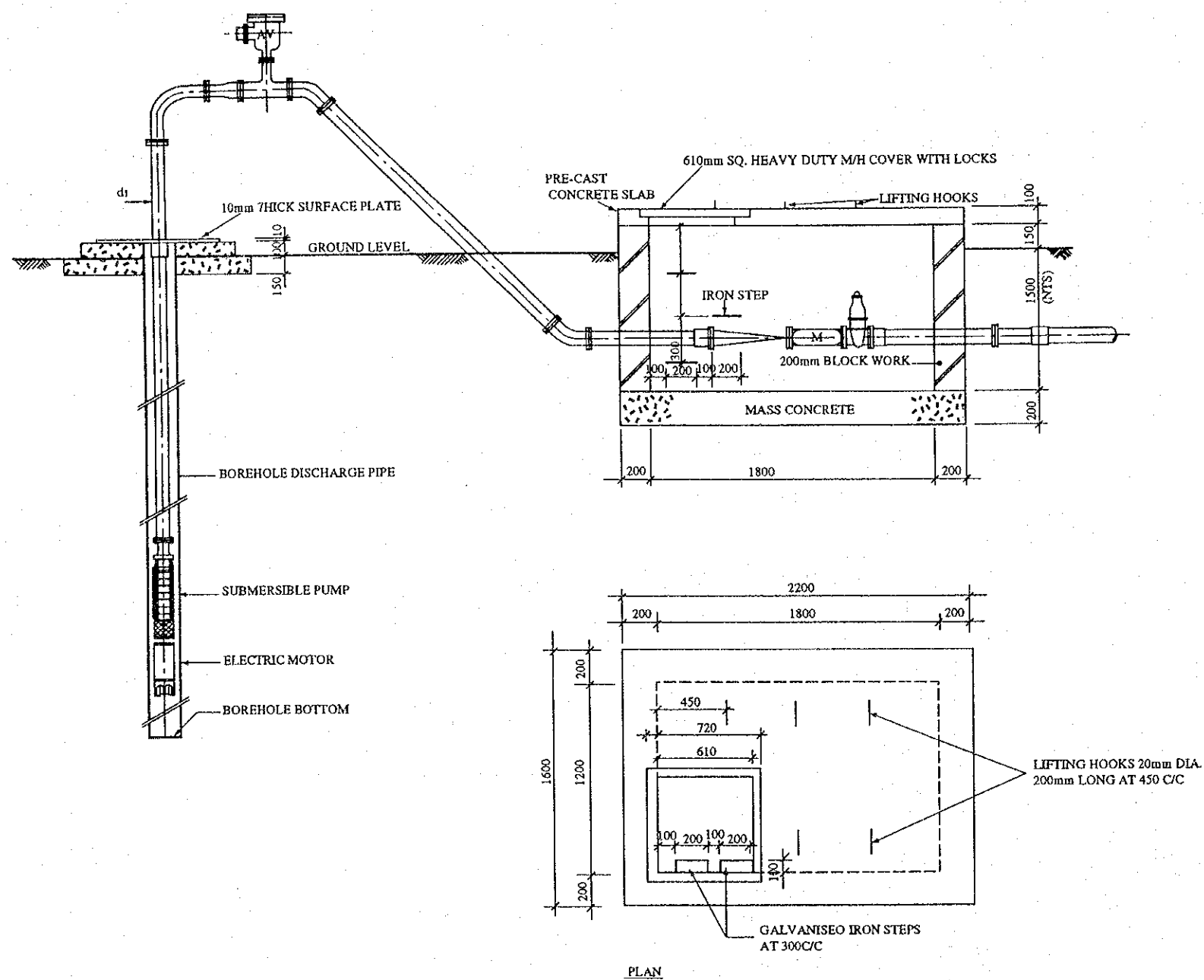


6 SECTION
SCALE 1:100

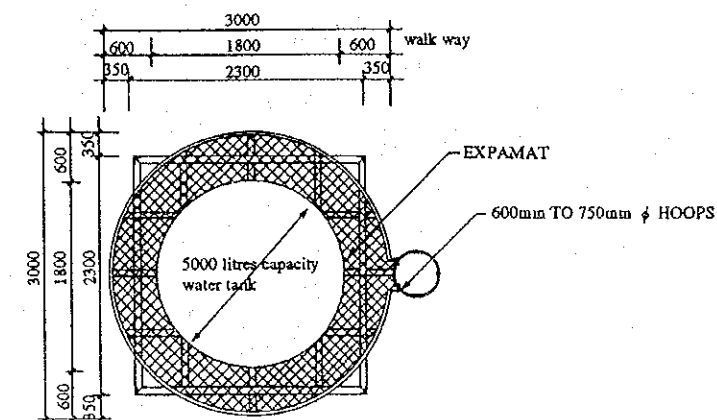
REPUBLIC OF ZAMBIA	
THE BASIC DESIGN STUDY ON MONGU RURAL DEVELOPMENT PROJECT	
Market House	
JAPAN INTERNATIONAL COOPERATION AGENCY	
DWG. No.	23
SHEET	

DESCRIPTION		FLOOR																BASE H=100						WAINSOOT						WALL						CEILING										REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		UNDER LAYER																FLOOR FINISH LEVEL						CONC. SLAB LEVEL						AEP ON CEMENT MORTAR (S, T) 20mm						CEMENT MORTAR (S, T) 20mm						HEIGHT						AEP ON CEMENT MORTAR (S, T) 20mm						CEMENT MORTAR (S, T) 20mm						CORRUGATED ASBESTOS SHEET AEP ON FAIR FACED CONCRETE MINERAL FIBER ACOUSTIC TILE MOISTURE RESISTANT ACOUSTIC CEILING BOARD										WOODEN BLIND BOX SDP		SUSPENDED CEILING HEIGHT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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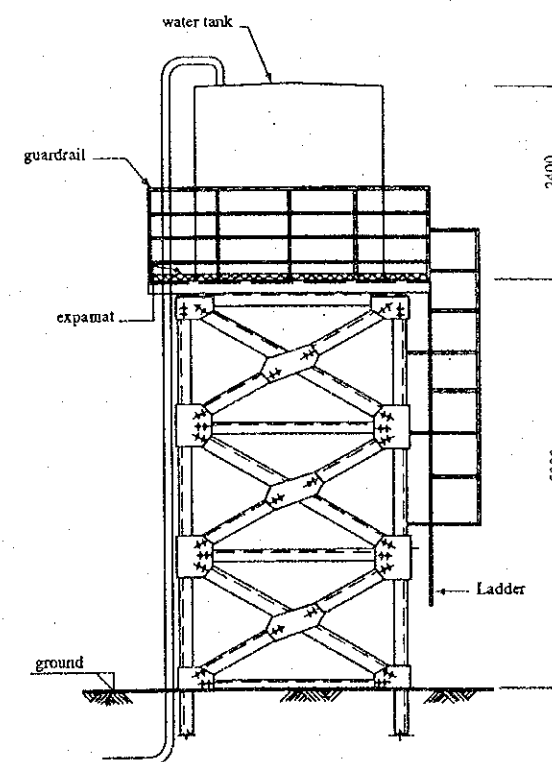
MANHOLE COVER DETAILS



PLAN OF ELEVATED WATER TANK

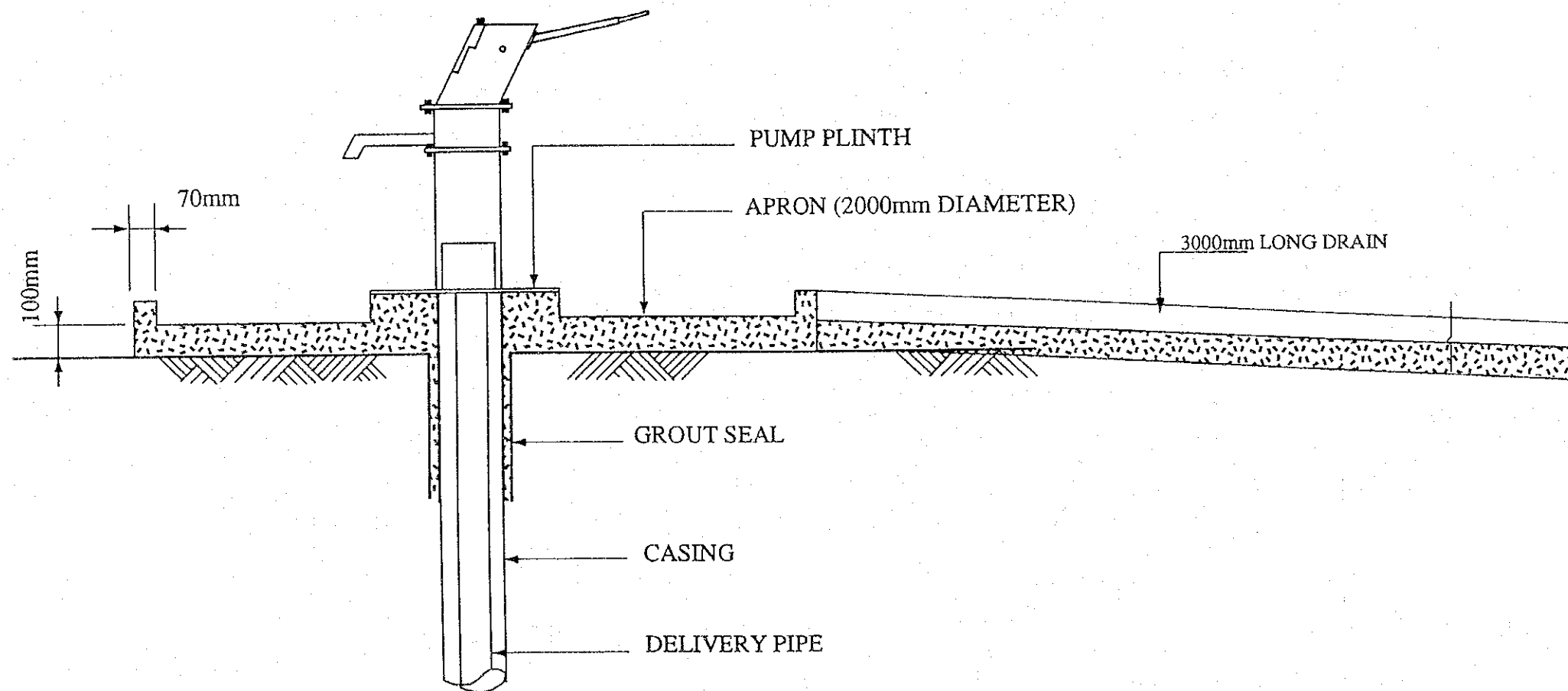


SIDE ELEVATION OF ELEVATED WATER TANK



REPUBLIC OF ZAMBIA		
THE BASIC DESIGN STUDY ON MONGU RURAL DEVELOPMENT PROJECT		
Water Supply Facility		
JAPAN INTERNATIONAL COOPERATION AGENCY		
DWG.No.	25	SHEET 1 of 2

SECTION THROUGH APRON & DRAIN



REPUBLIC OF ZAMBIA

THE BASIC DESIGN STUDY ON
MONGU RURAL DEVELOPMENT PROJECT

Water Supply Facility

JAPAN INTERNATIONAL COOPERATION AGENCY

DWG. No. 26 SHEET 2 of 2

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