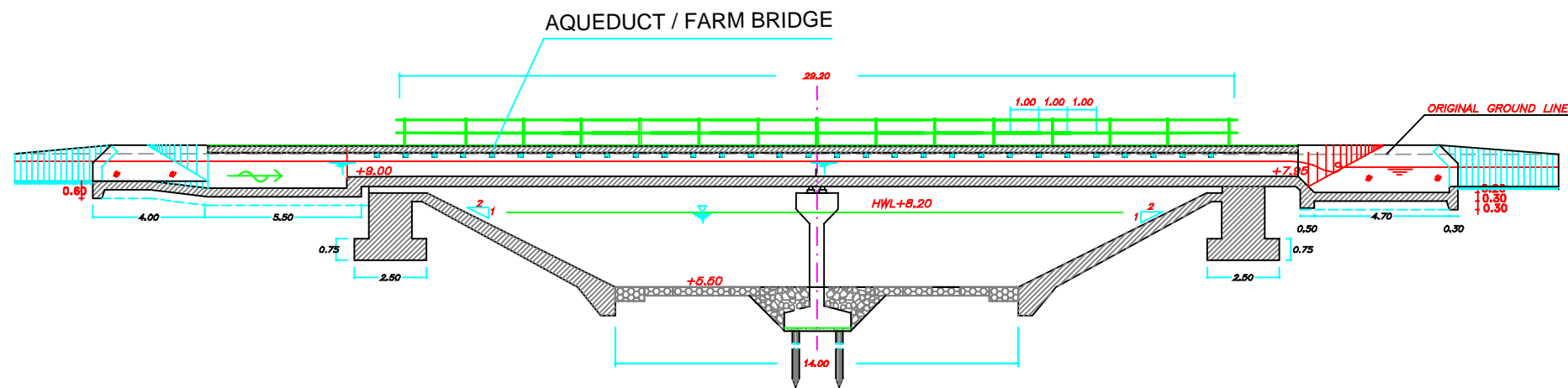
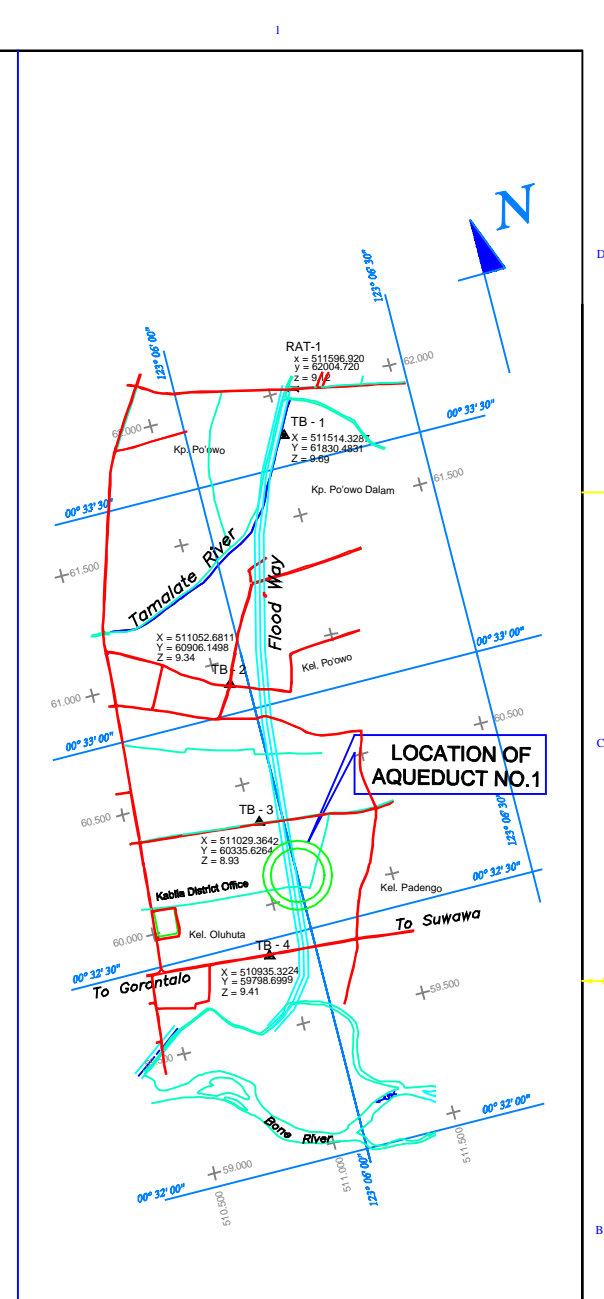




PLAN

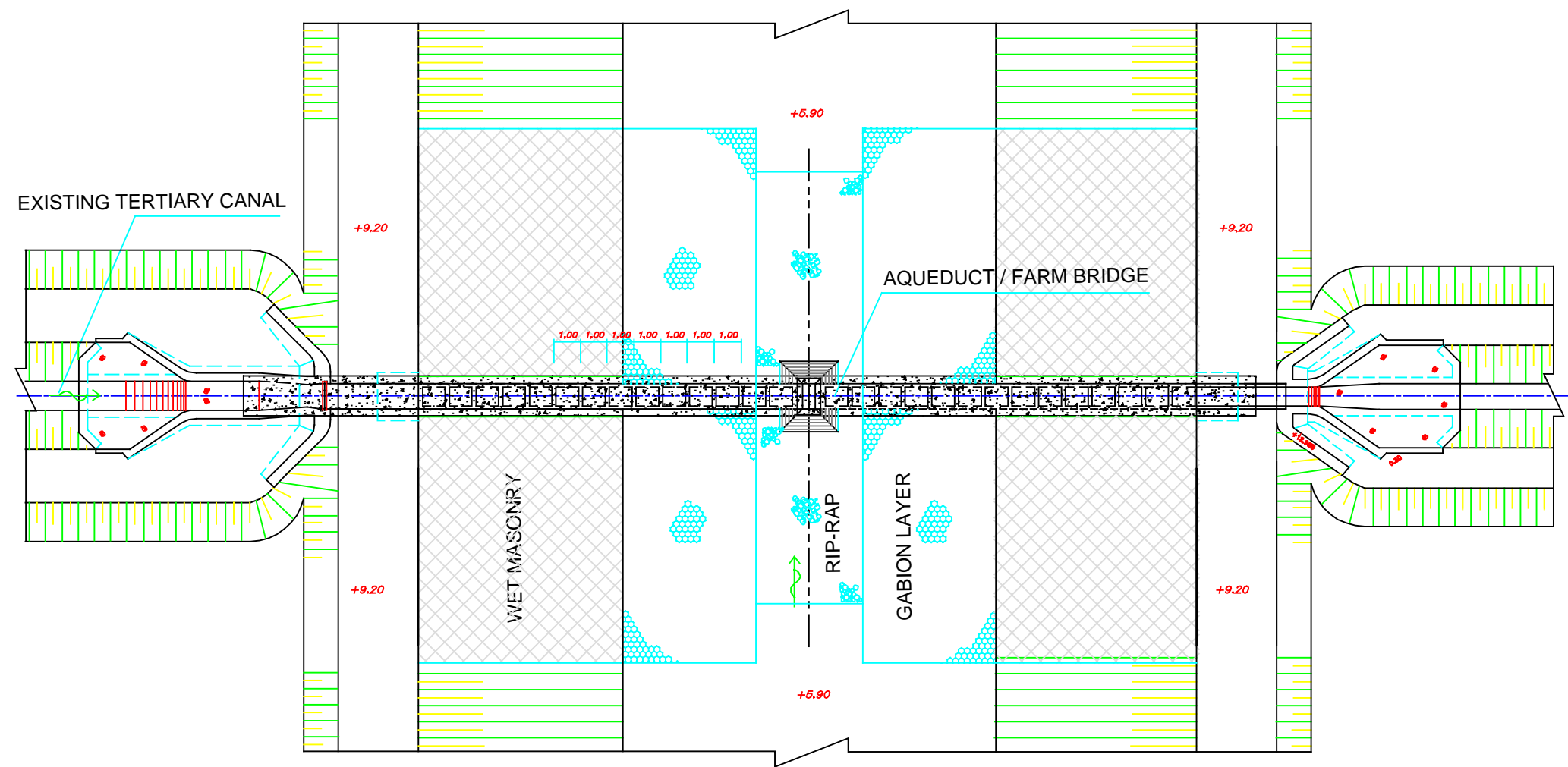


PROFILE

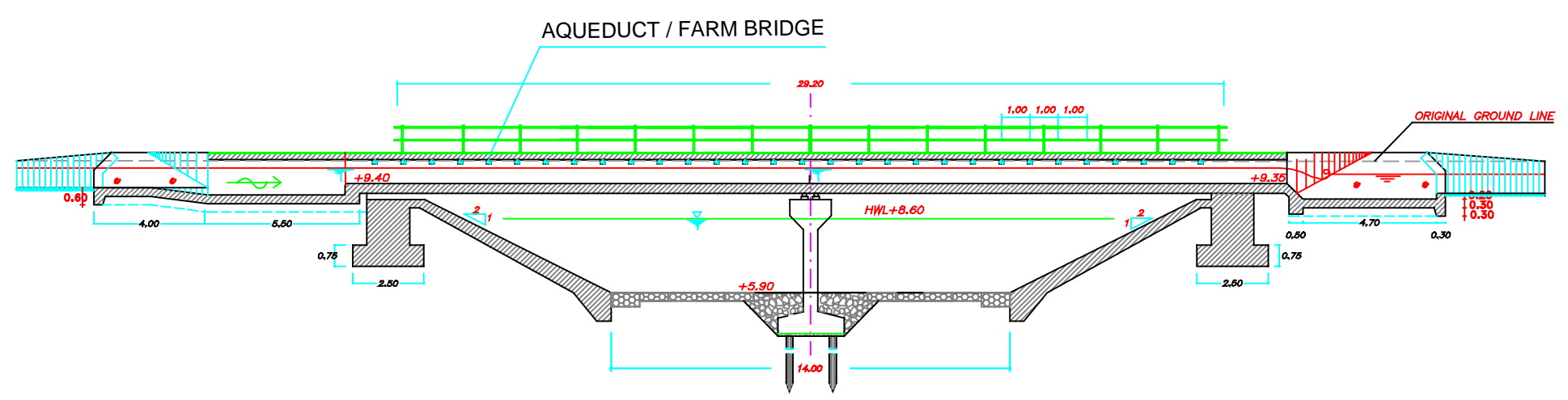


KEY PLAN

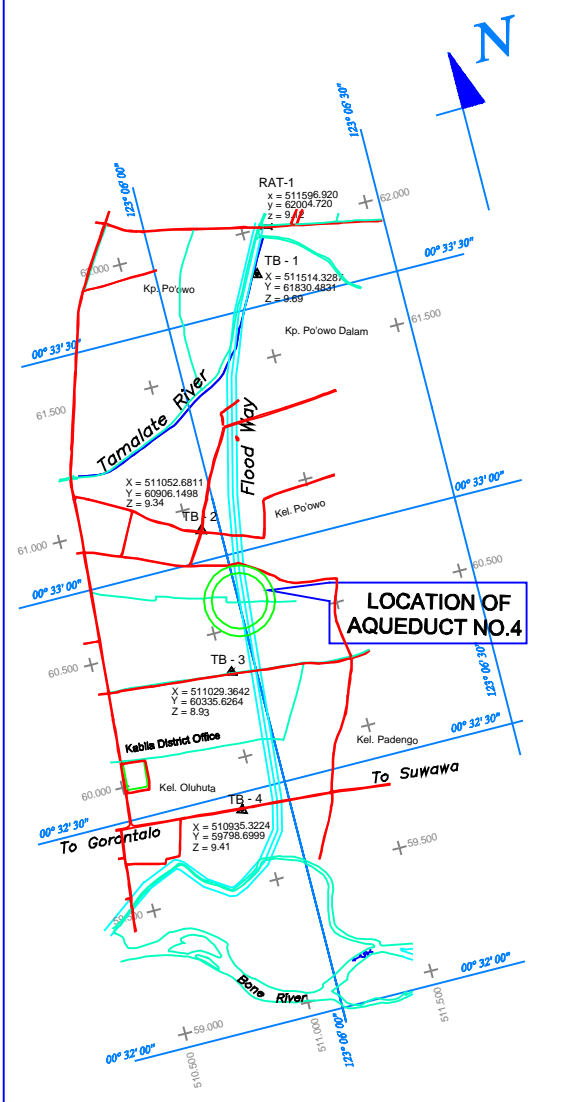
 DIRECTORATE GENERAL OF WATER RESOURCES, MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE			
THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT IN LIMBOTO - BOLANGO - BONE BASIN			
SECTION : TAMALATE FLOODWAY			
TITLE : AQUEDUCT NO.1 PLAN AND PROFILE			
Checked by	Approved by	SCALE	DATE
Name			OCTOBER, 2002
Signature			
Date			
 JICA JAPAN INTERNATIONAL COOPERATION AGENCY		DWG No. AQ/TFW -1	SHEET NO. 1/2



PLAN

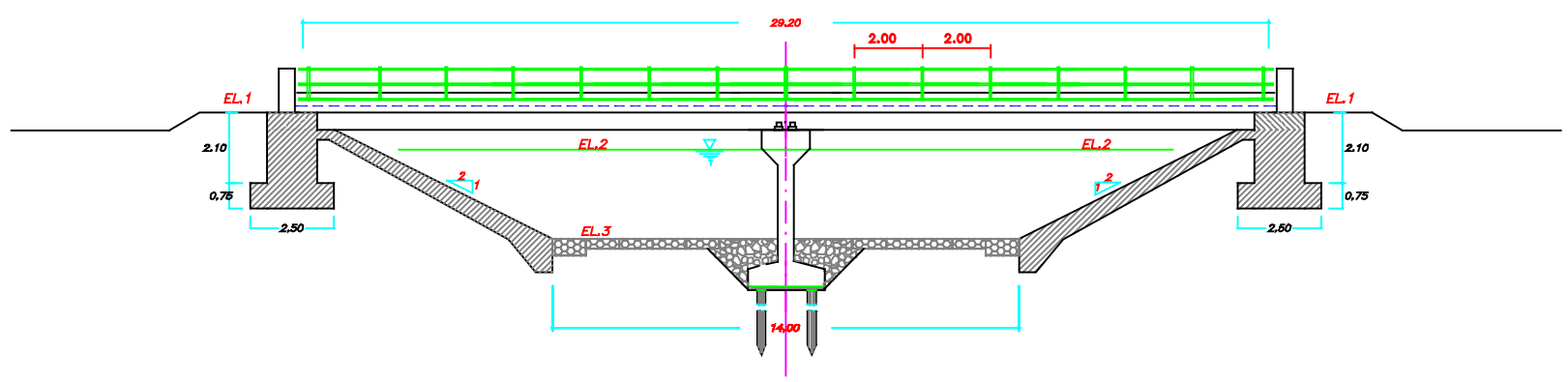
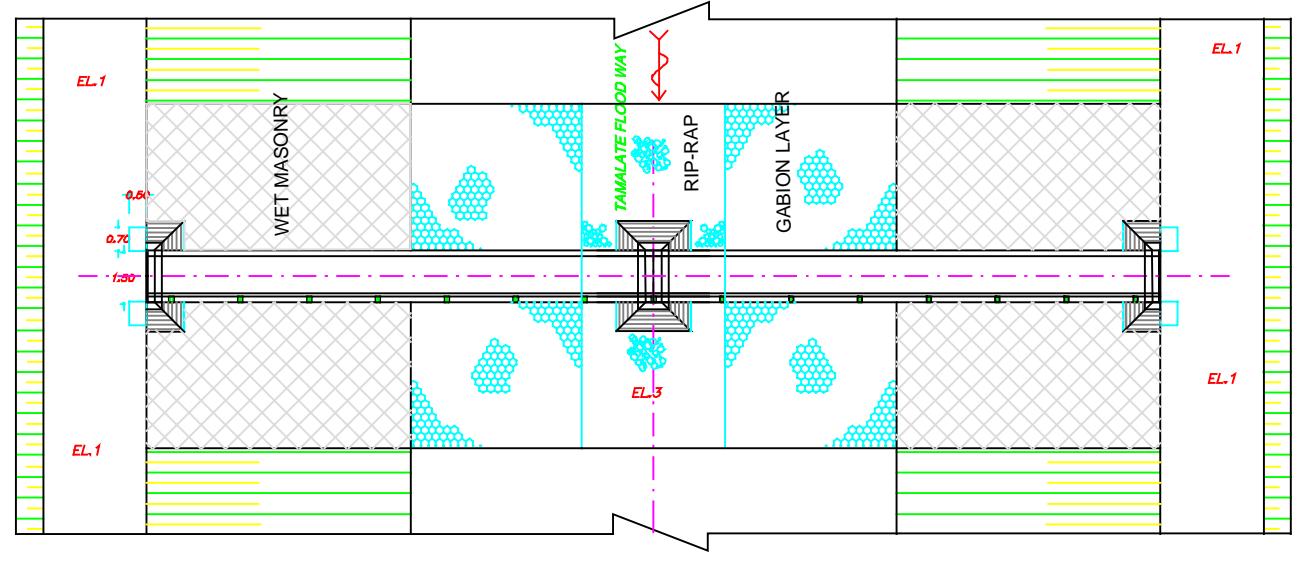


PROFILE



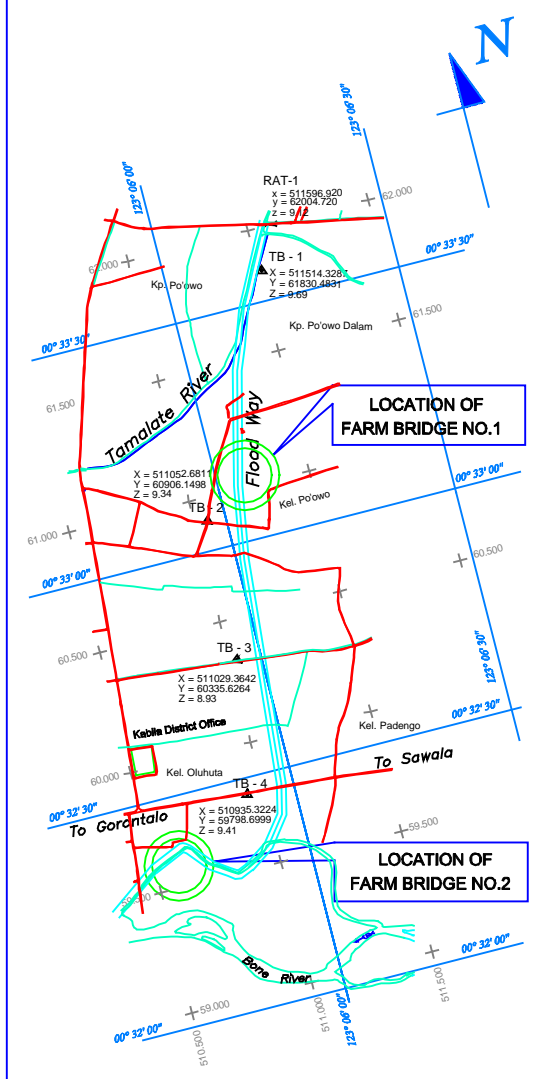
KEY PLAN

DIRECTORATE GENERAL OF WATER RESOURCES, MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE				
THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT IN LIMBOTO - BOLANGO - BONE BASIN				
SECTION : TAMALATE FLOODWAY				
TITLE : AQUEDUCT NO.4 PLAN AND PROFILE				
Checked by	Approved by	SCALE	DATE	
Name			OCTOBER, 2002	
Signature				
Date				
JICA JAPAN INTERNATIONAL COOPERATION AGENCY		DWG No. AQ/TFW - 2	SHEET NO. 2/2	



PROFILE

STRUCTURE NAME	EL.1	EL.2	EL.3
FARM BRIDGE NO.1	+ 10.30	+9.30	+6.10
FARM BRIDGE NO.2	+ 9.00	+8.00	+5.30



KEY PLAN

**DIRECTORATE GENERAL OF WATER RESOURCES,
MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE**

THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT
IN LIMBOTO - BOLANGO - BONE BASIN

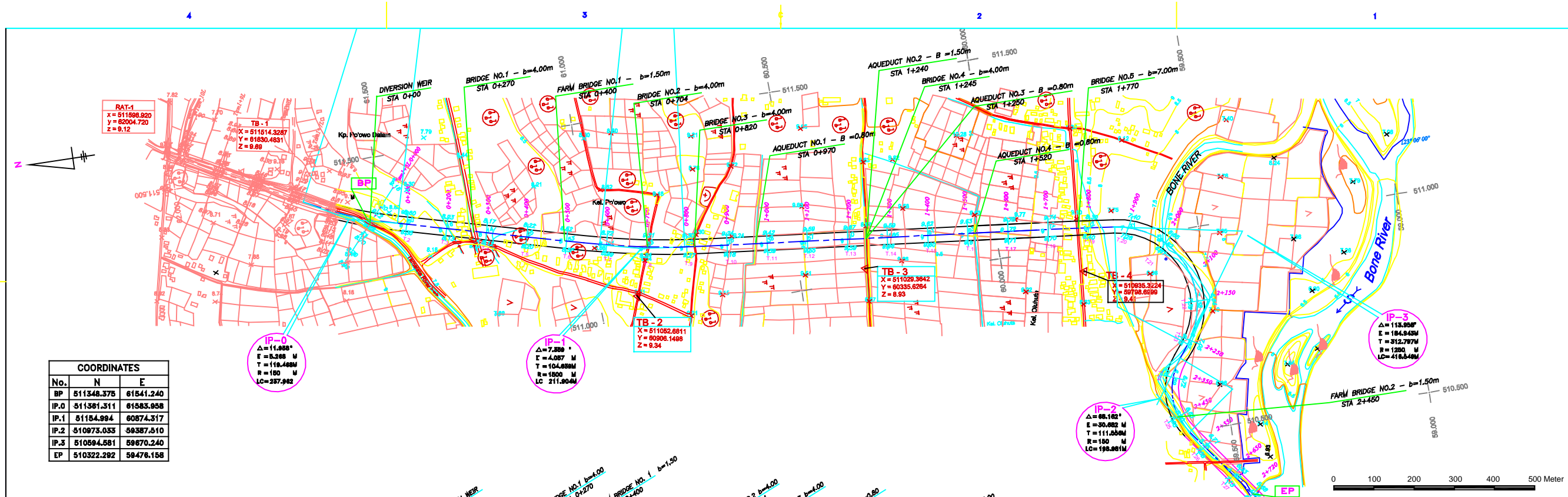
SECTION : TAMALATE FLOODWAY

TITLE : FARM BRIDGE NO. 1 & 2
PLAN AND PROFILE

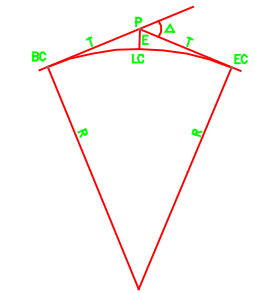
Checked by	Approved by	SCALE	DATE
			OCTOBER , 2002

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

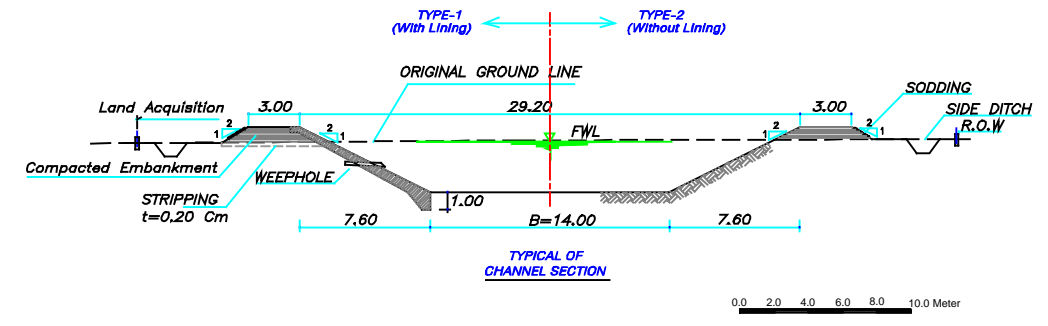
DWG No. FB/TFW-1 SHEET NO. 1/1



COORDINATES		
No.	N	E
BP	511348.375	61541.240
IP.0	511361.311	61583.958
IP.1	51154.994	60874.317
IP.2	510973.033	59387.510
IP.3	510594.581	59670.240
EP	510322.292	58478.158



Section No.	TAM1+10	TAM1+9	TAM1+8	TAM1+7	TAM1+6	TAM1+5	T. 2	T. 3	T. 4	T. 5	T. 6	T. 7	T. 8	T. 9	T. 10	T. 11	T. 12	T. 13	T. 14	T. 15	T. 16	T. 17	T. 18	T. 19	T. 20	T. 21	T. 22	T. 23	T. 24	T. 25	T. 26	T. 27	T. 28
EXISTING DISTANCE (M)		101.3	101.37	100.88	100.51	97.54	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	150	100	100	100	100	100	70	
ACCUMULATED DISTANCE																																	
LOWEST RIVER BED / GROUND LEVEL IN CENTER LINE		6.700	6.400	6.000	6.300	6.140	6.000	6.010	6.100	6.150	6.150	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200	6.200
BANK LEVEL		6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300
DESIGN WATER LEVEL		6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300
BED LEVEL		6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300	6.300
CHANNEL DIMENSION		Up stream TAMALATE river						Floodway Channel : Q=120 m ³ /s b=14.0m h=3.20 m m= 1 : 2 f= 0.60 m l= 0.0010 v= 1.75 m/sec. n= 0.03																									



DIRECTORATE GENERAL OF WATER RESOURCES,
MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE

THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT
IN LIMBOTO - BOLANGO - BONE BASIN

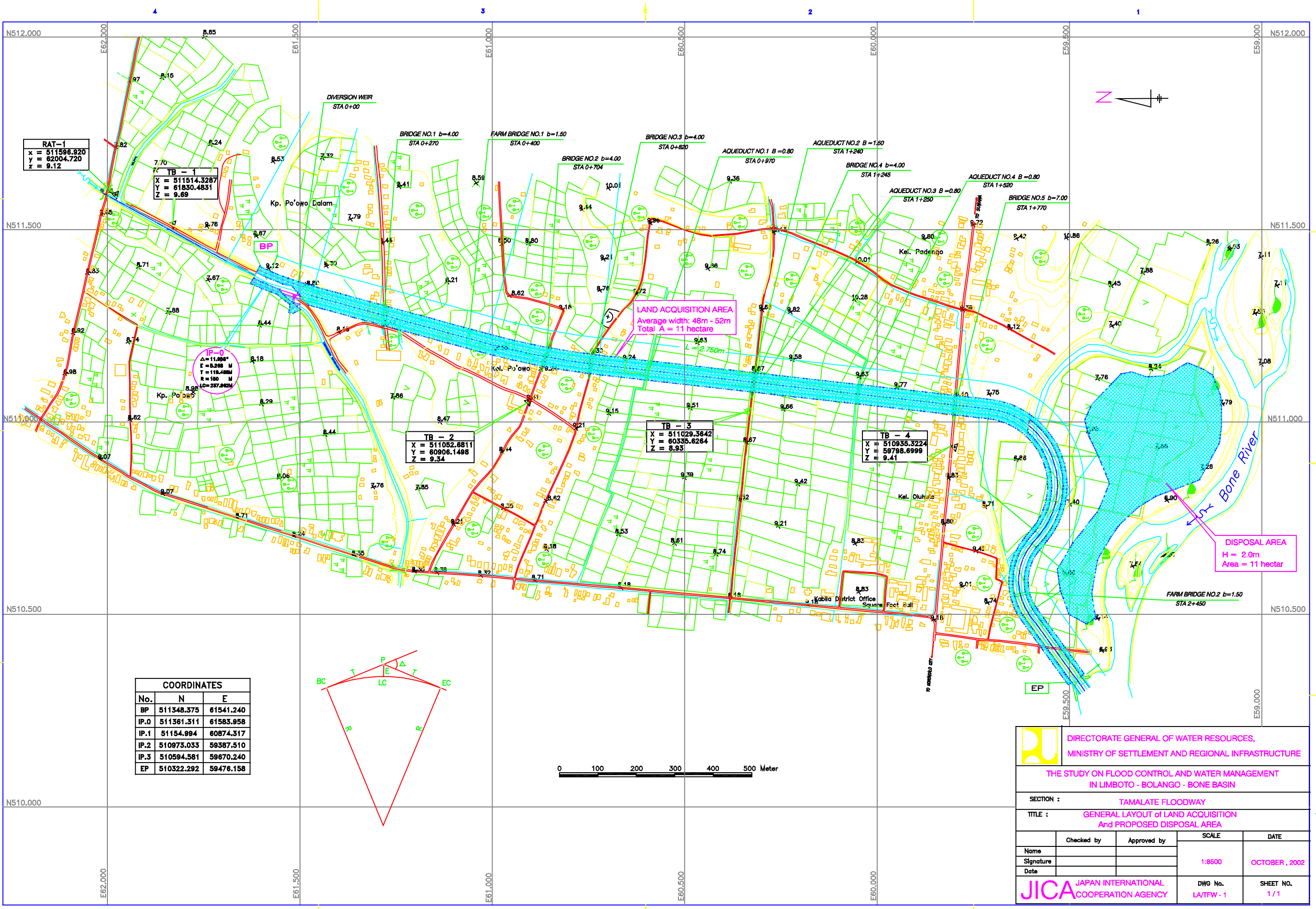
SECTION : **TAMALATE FLOODWAY**

TITLE : **LONGITUDINAL SECTION TAM1+10 - T.28**

Name	Checked by	Approved by	SCALE	DATE
Signature				OCTOBER, 2002
Date				

JICA JAPAN INTERNATIONAL COOPERATION AGENCY

DWG No. **LS/TFW-1** SHEET NO. **1/1**



RAT-1
 x = 511596.920
 y = 62004.720
 z = 9.12

TB-1
 X = 511514.3287
 Y = 61830.4831
 Z = 9.69

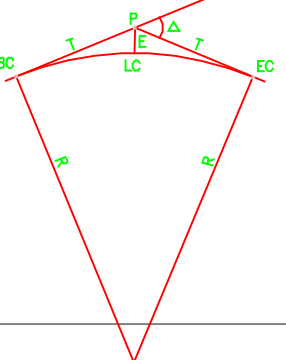
IP-0
 Δ = 11.898°
 E = 6.298 M
 T = 118.488 M
 R = 180 M
 L = 287.962 M

TB-2
 X = 511052.6811
 Y = 60906.1498
 Z = 9.34

TB-3
 X = 511029.3642
 Y = 60335.6264
 Z = 8.93

TB-4
 X = 510935.3224
 Y = 59798.6999
 Z = 8.41

COORDINATES		
No.	N	E
BP	511348.375	61541.240
IP.0	511361.311	61583.958
IP.1	51154.994	60874.317
IP.2	510973.033	59387.510
IP.3	510594.581	59670.240
EP	510322.292	59476.158



0 100 200 300 400 500 Meter

**DIRECTORATE GENERAL OF WATER RESOURCES,
 MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE**

**THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT
 IN LIMBOTO - BOLANGO - BONE BASIN**

SECTION : **TAMALATE FLOODWAY**

TITLE : **GENERAL LAYOUT OF LAND ACQUISITION
 And PROPOSED DISPOSAL AREA**

Checked by		Approved by		SCALE	DATE
Name				1:8500	OCTOBER, 2002
Signature					
Date					

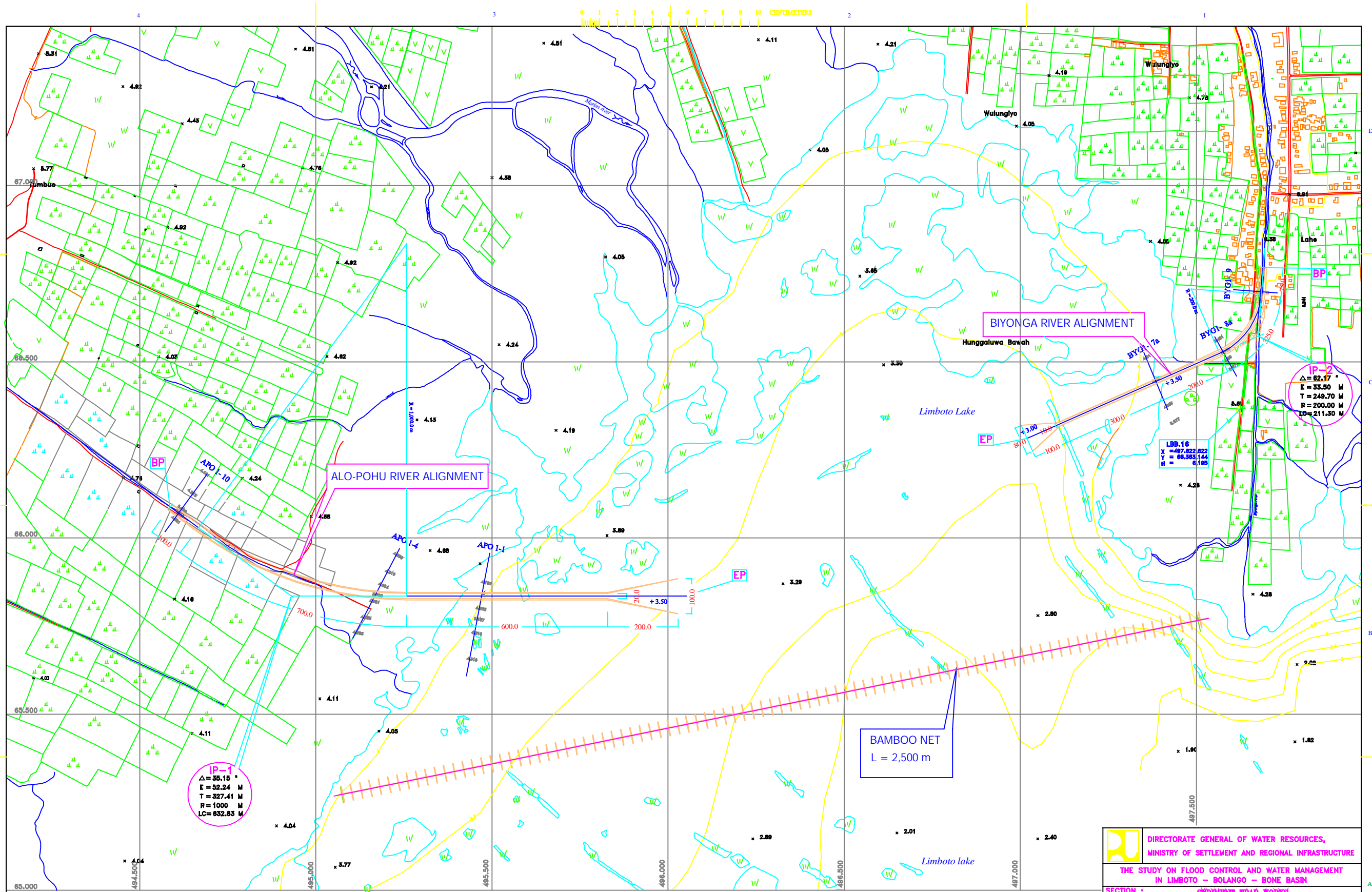
**JICA JAPAN INTERNATIONAL
 COOPERATION AGENCY**

DWG No. **LA/TFW-1** SHEET NO. **1/1**

LIST OF FACILITY DRAWING
SECTION : SEDIMENT TRAP WORKS IN LAKE LIMBOTO

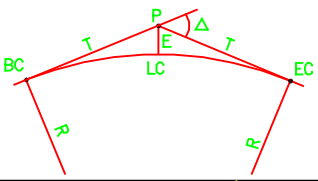
No.	DRAWING NO	SHEET No.	TITLE OF DRAWING
1	APB - 1	1/3	GENERAL LAYOUT
2	APB - 2	2/3	PROFILE OF SEDIMENT NET AND TYPICAL CHANNEL SECTION
3	APB - 3	3/3	TYPICAL SEDIMENT NET

**THE STUDY OF FLOOD CONTROL AND WATER MANAGEMENT
IN LIMBOTO - BOLANGO - BONE BASIN**



COORDINATES ALO-POHU ALIGNMENT		
No.	N	E
BP	599.647	1785.006
IP.1	944.470	1532.093
EP	2058.753	1532.223

COORDINATES BIYONGA ALIGNMENT		
No.	N	E
BP	3032.382	1979.809
IP.2	3689.344	2269.949
EP	3703.061	2464.793

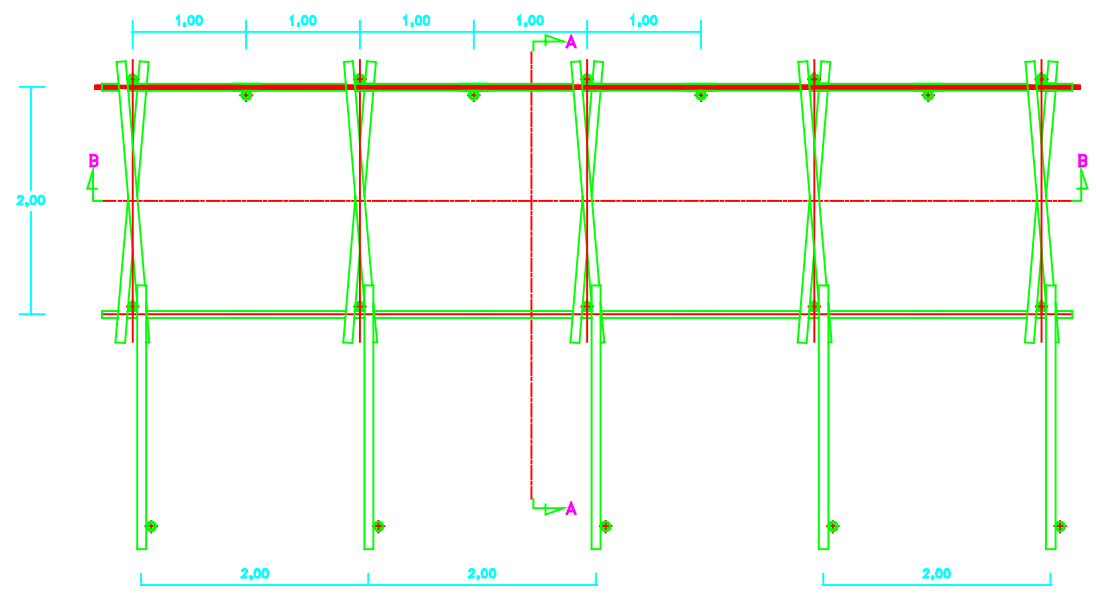


	DIRECTORATE GENERAL OF WATER RESOURCES, MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE		
	THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT IN LIMBOTO - BOLANGO - BONE BASIN		
SECTION :	SEDIMENT TRAP WORKS IN LAKE LIMBOTO		
TITLE :	GENERAL LAYOUT		
	Checked by	Approved by	SCALE
Name			1 : 10,000
Signature			DATE
Date			OCTOBER, 2002
	JAPAN INTERNATIONAL COOPERATION AGENCY		DWG No.
			GL/APB-1
		SHEET NO.	1/3



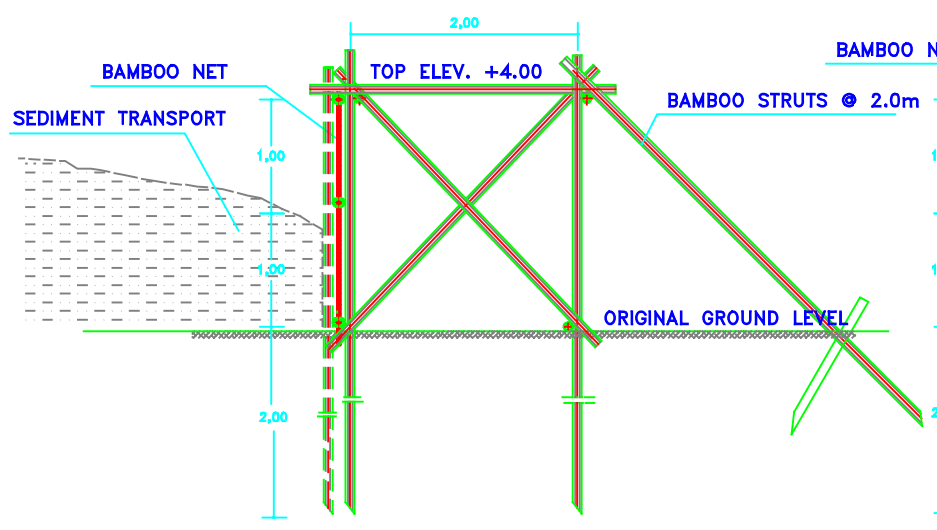
SEDIMENT NET TYPE 2
 $h = 2.0 \text{ m}, L = 1.250 \text{ m}$

SEDIMENT FLOWN
 FROM ALO-POHU AND BIYONGA RIVER



PLAN

LAKE LIMBOTO
 F.W.L + 5.50

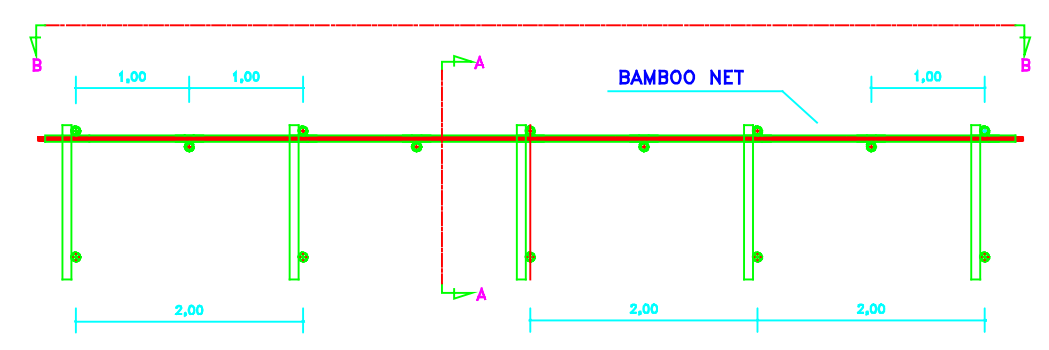


SECTION A-A



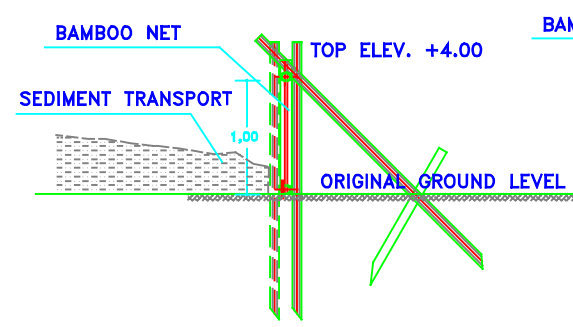
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SEDIMENT FLOWN
 FROM ALO-POHU AND BIYONGA RIVER

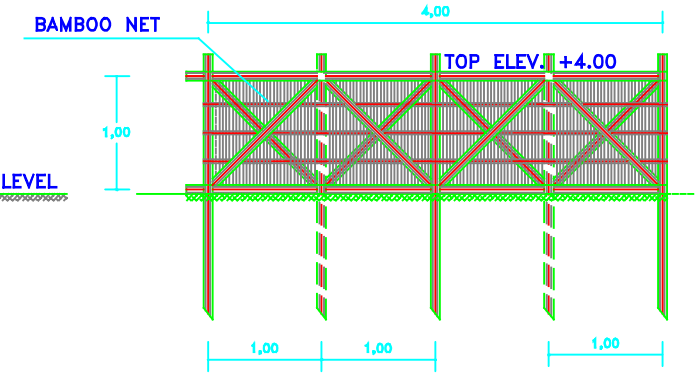


PLAN

LAKE LIMBOTO
 F.W.L + 5.50





SECTION A-A



SECTION B-B



 DIRECTORATE GENERAL OF WATER RESOURCES, MINISTRY OF SETTLEMENT AND REGIONAL INFRASTRUCTURE				
THE STUDY ON FLOOD CONTROL AND WATER MANAGEMENT IN LIMBOTO - BOLANGO - BONE BASIN				
SECTION : SEDIMENT TRAP WORKS IN LAKE LIMBOTO				
TITLE : TYPICAL SEDIMENT NET				
	Checked by	Approved by	SCALE	DATE
Name				OCTOBER 2002
Signature				
Date				
 JAPAN INTERNATIONAL COOPERATION AGENCY			DWG No. TYP/APB - 1	SHEET No. 3/3