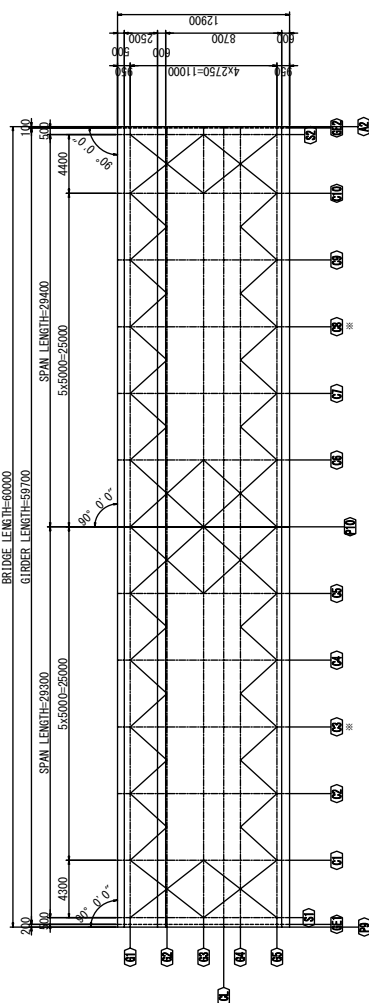
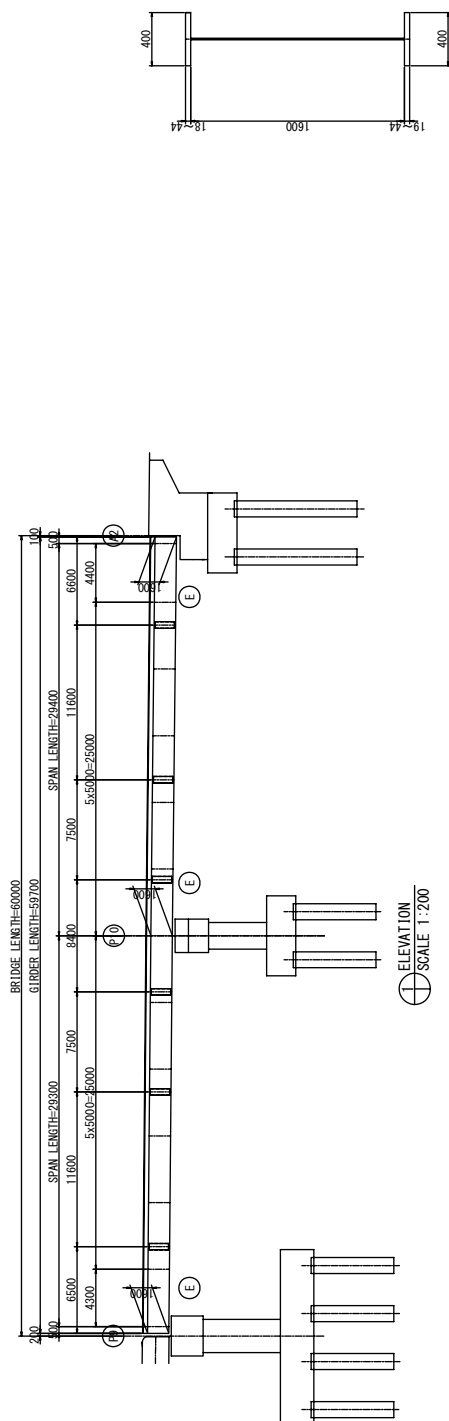
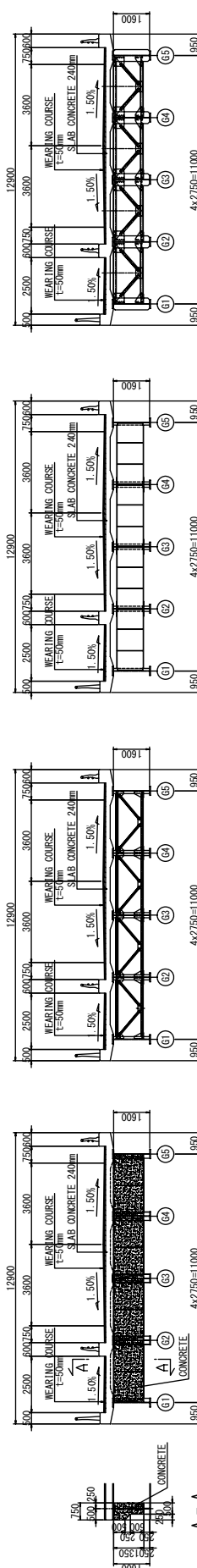




※ is INTERMEDIATE CROSS BEAM.



END DIAPHRAGM
(S1, S2)

SWAY BRACING
C1, C2, C4, C5, C6, C7, C9, C10)

INTERMEDIATE CROSS BEAM
(C3, C8)

PIER CROSS BEAM
(P10)

3 TYPICAL CROSS SECTIONS
SCALE 1:100

MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE:	SUPERSTRUCTURE LAYOUT AND TYPICAL SECTIONS (P9-A2)	SCALE 1:100 1:200 DATE OCT 2011	SHEET NO. NB-19
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PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN

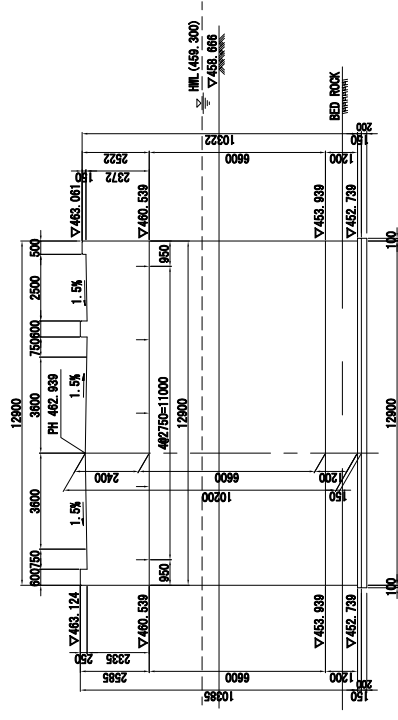
JAPAN INTERNATIONAL COOPERATION AGENCY
CTI ENGINEERING INTERNATIONAL CO., LTD.
EIGHT-JAPAN ENGINEERING CONSULTANTS INC.

SUPERSTRUCTURE LAYOUT AND TYPICAL SECTIONS
(P9-A2)

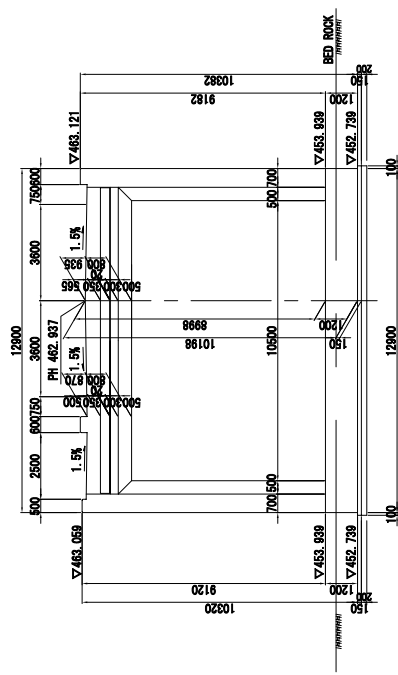
SCALE	SHEET NO.
1:100 1:200	
DATE	
OCT 2011	

SHEET NO.

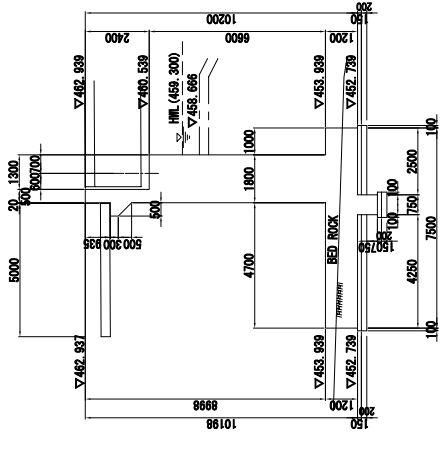
NB-19



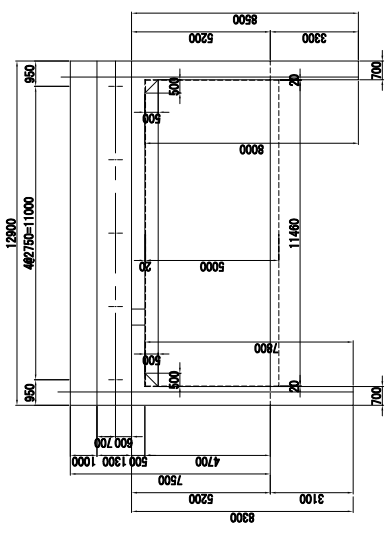
FRONT VIEW
SCALE 1:100



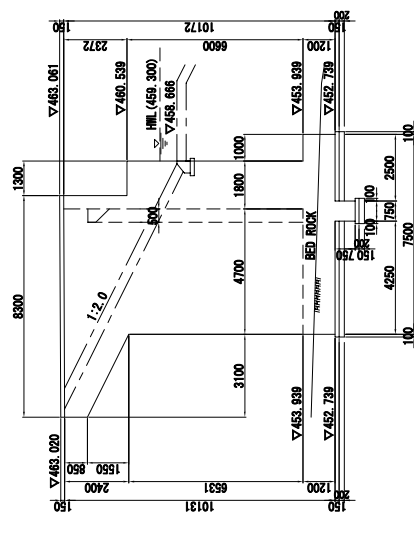
REAR VIEW
SCALE 1:100



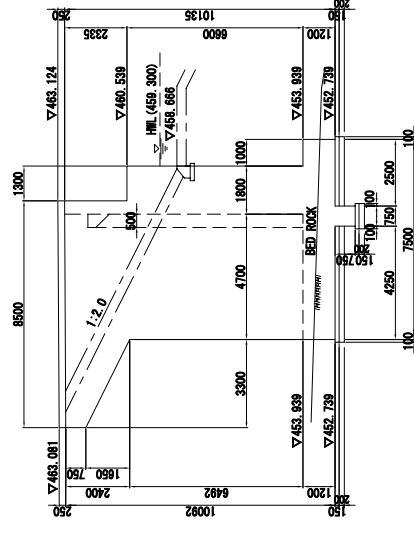
CROSS SECTION
SCALE 1:100



PLAN
SCALE 1:100



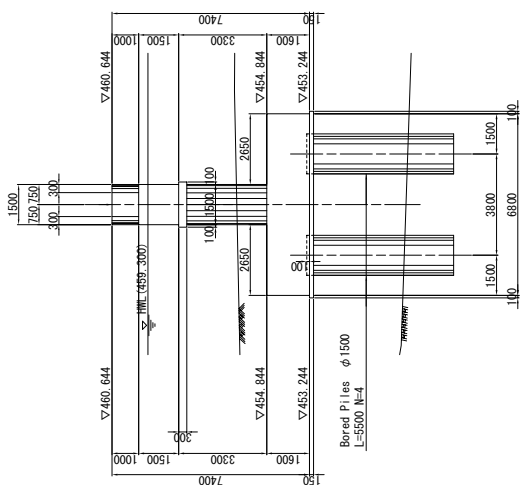
LEFT WING
SCALE 1:100



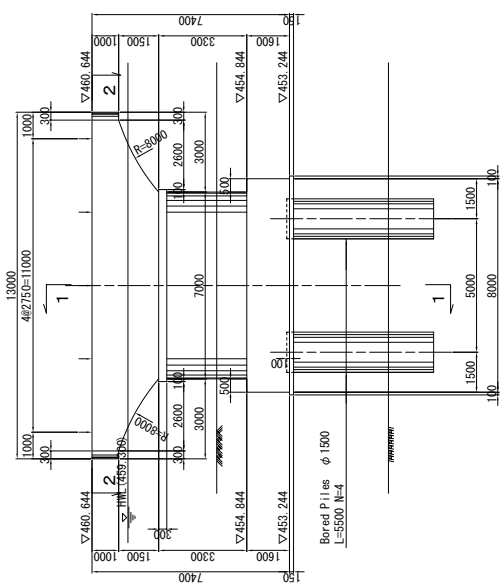
RIGHT WING
SCALE 1:100

ABUTMENT A1 LAYOUT AND DIMENSIONS
SCALE 1:100

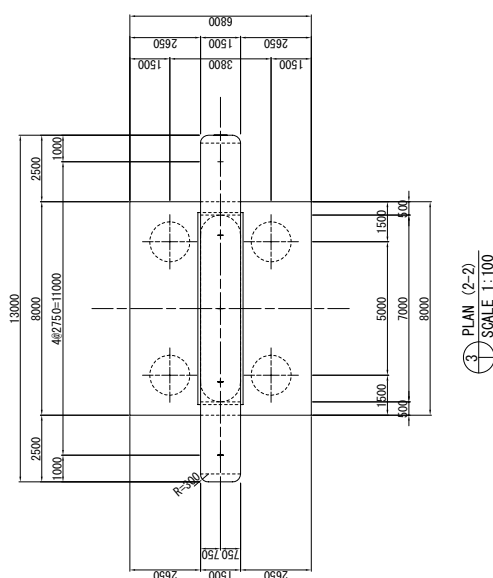
MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE: ABUTMENT A1 LAYOUT AND DIMENSIONS	SHEET NO.	
				SCALE	DATE
				1:100	NB-20
					OCT 2011



② SIDE VIEW (1-1)
SCALE 1:100



1 FRONT VIEW
SCALE 1:100



PIER P1 LAYOUT AND DIMENSIONS
SCALE 1:100

TITLE:

JAPAN INTERNATIONAL COOPERATION AGENCY
CTI ENGINEERING INTERNATIONAL CO., LTD.
EIGHT-JAPAN ENGINEERING CONSULTANTS INC.

PRELIMINARY SURVEY FOR THE PROJECT FOR
CONSTRUCTION OF NILE RIVER BRIDGE
IN SOUTHERN SUDAN

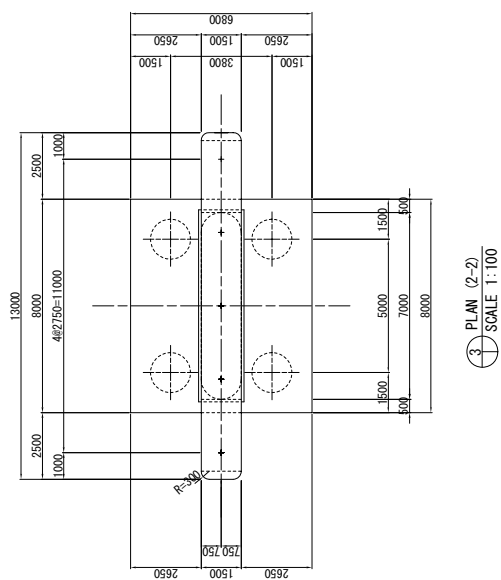
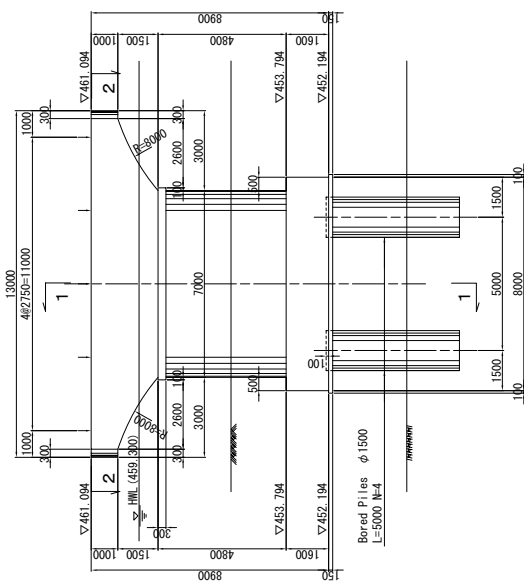
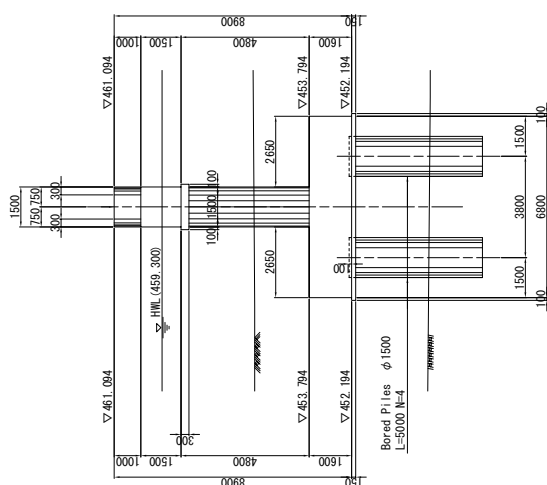
MINISTRY OF TRANSPORT AND ROADS
GOVERNMENT OF SOUTHERN SUDAN

DIMENSIONS DETAILS FOR PIER-1

SCALE	SHEET NO.
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DATE	NB-21
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SCALE	SHEET NO.
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PIER P4 LAYOUT AND DIMENSIONS
SCALE 1:100

TITLE:

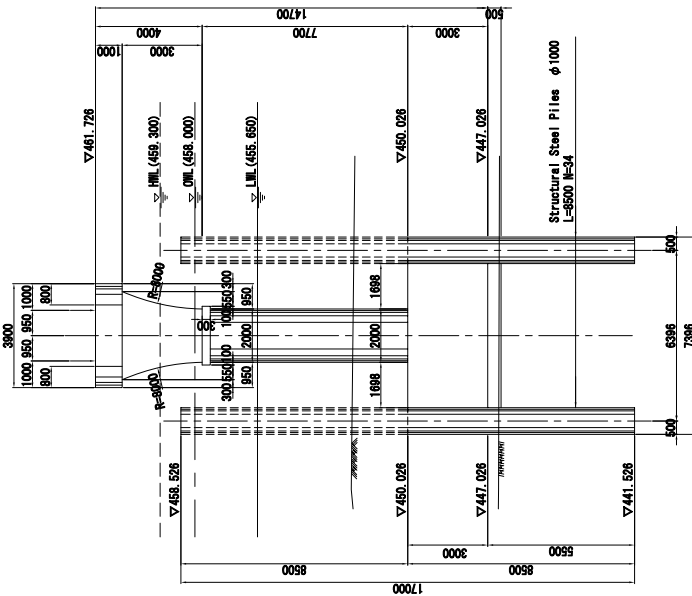
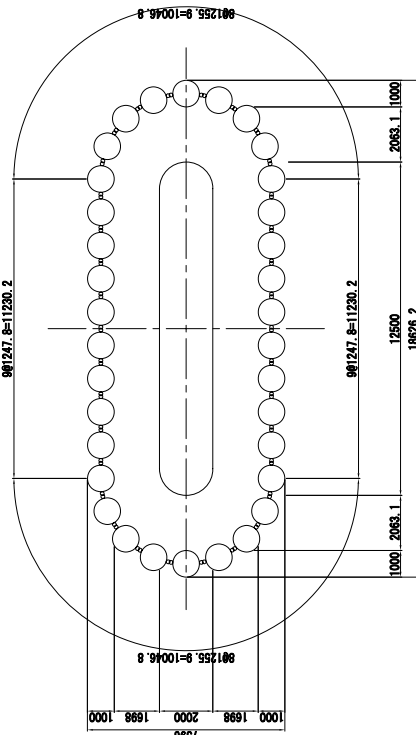
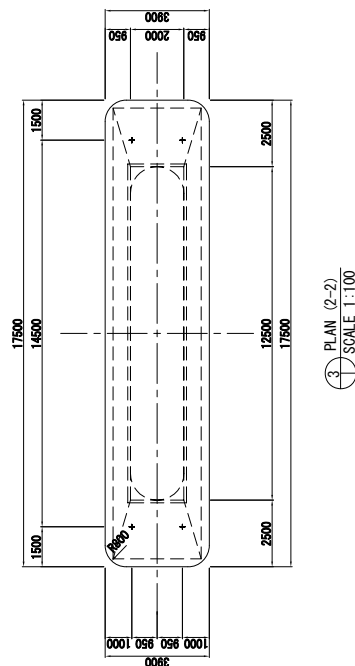
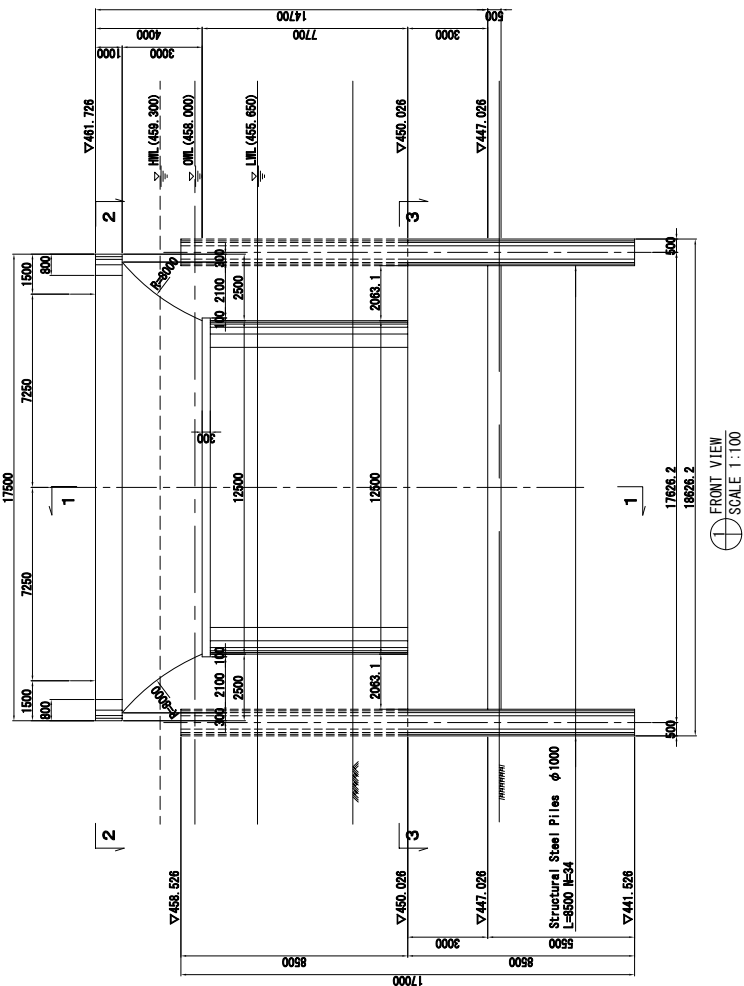
JAPAN INTERNATIONAL COOPERATION AGENCY
CTI ENGINEERING INTERNATIONAL CO., LTD.
EIGHT-JAPAN ENGINEERING CONSULTANTS INC.

PRELIMINARY SURVEY FOR THE PROJECT FOR
CONSTRUCTION OF NILE RIVER BRIDGE
IN SOUTHERN SUDAN

MINISTRY OF TRANSPORT AND ROADS
GOVERNMENT OF SOUTHERN SUDAN

SCALE	SHEET NO.
1:100	
DATE	
OCT 2011	NB-24

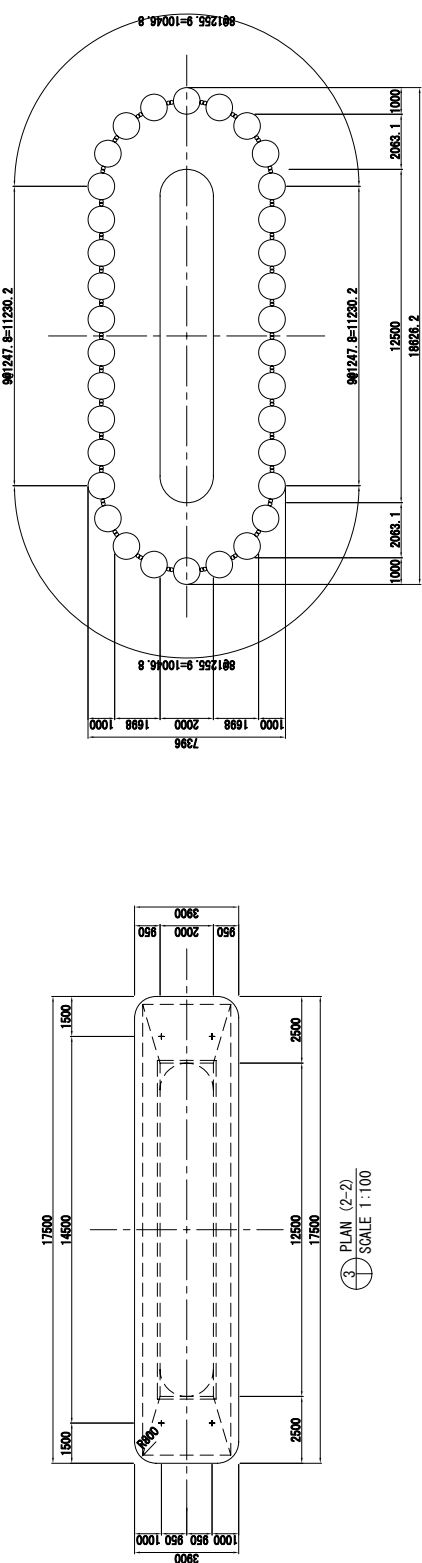
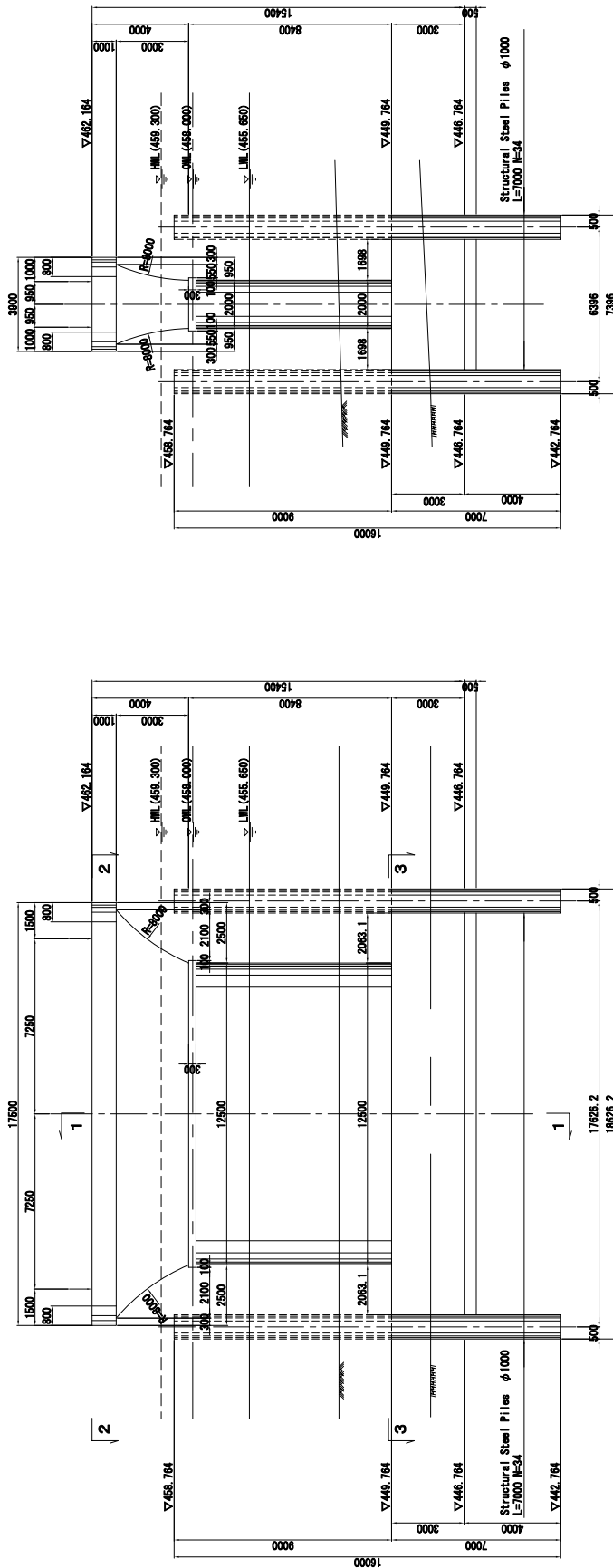
DIMENSIONS DETAILS FOR PIER-4



PIER P6 LAYOUT AND DIMENSIONS
SCALE 1:100

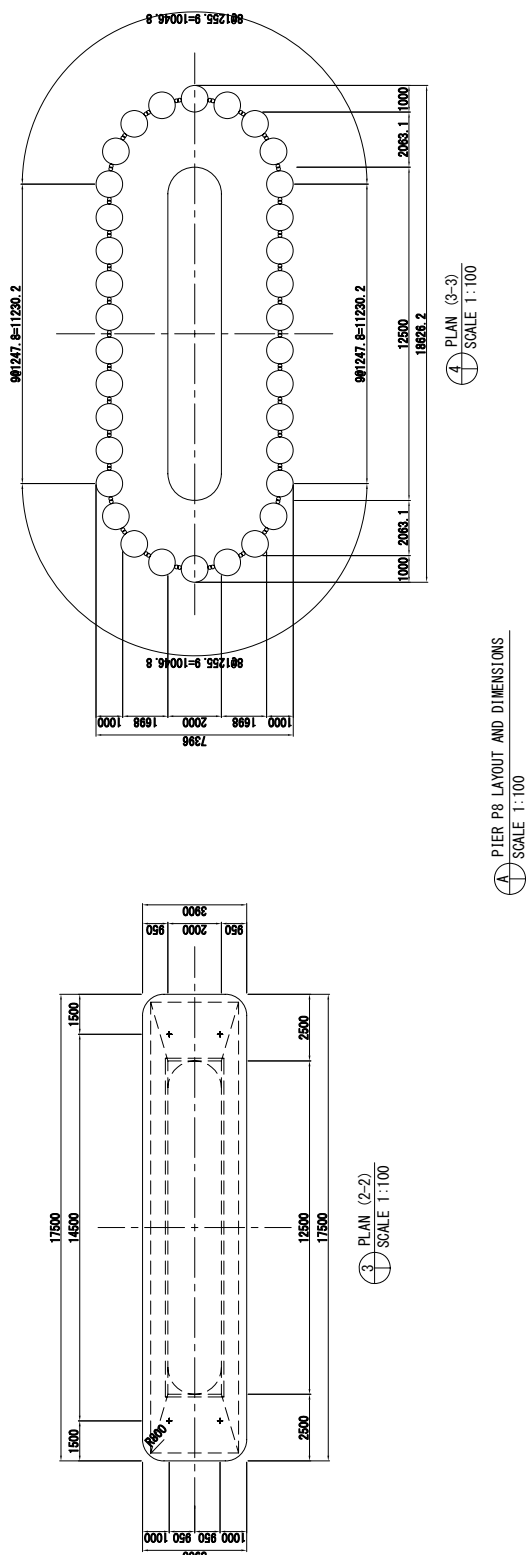
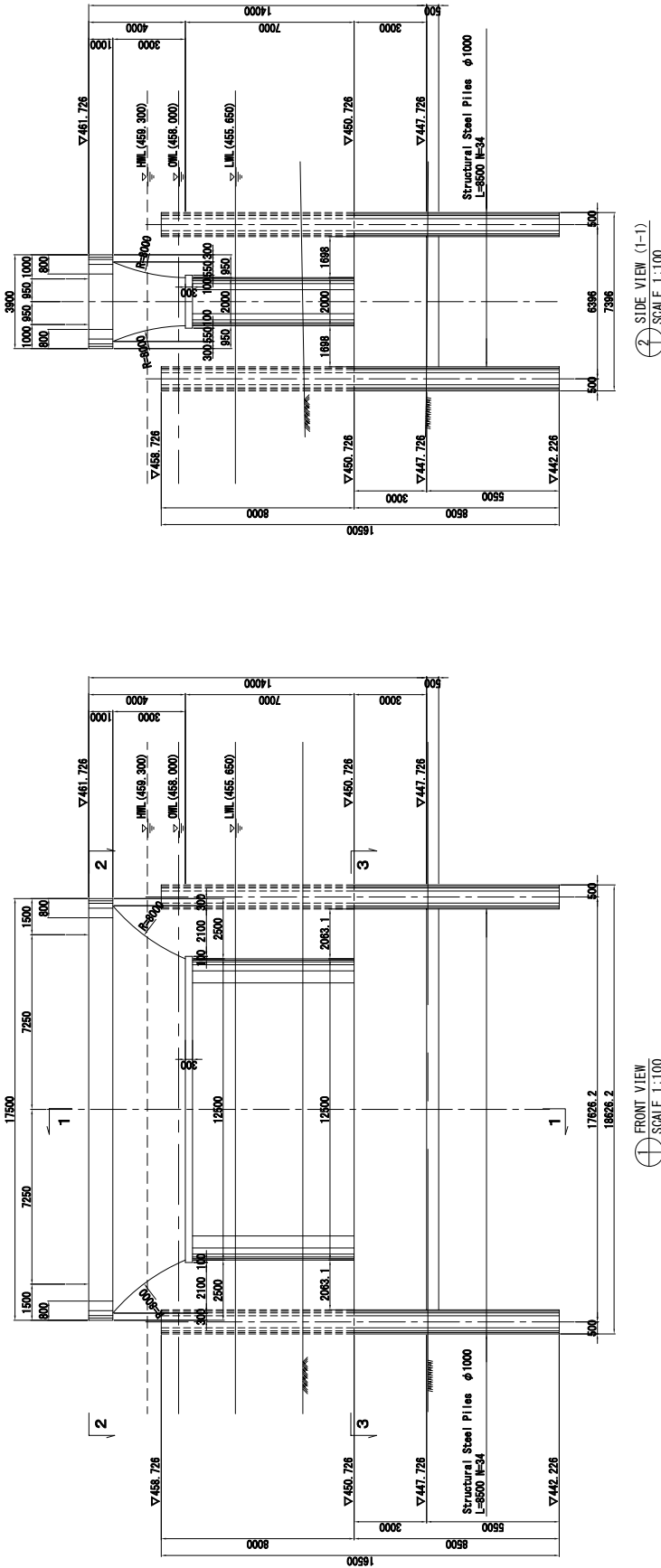
PIER P6 LAYOUT AND DIMENSIONS
SCALE 1:100

MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE: DIMENSION DETAILS FOR PIER6		SCALE	SHEET NO.
					1:1.0	NB-28
					DATE	OCT 2011

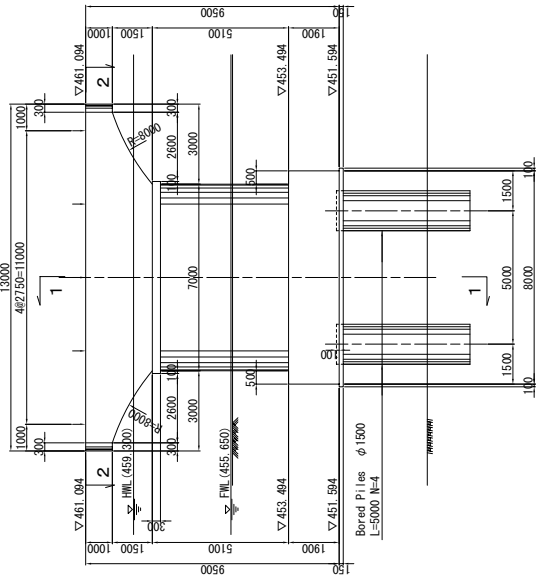


PIER P7 LAYOUT AND DIMENSIONS
SCALE 1:100

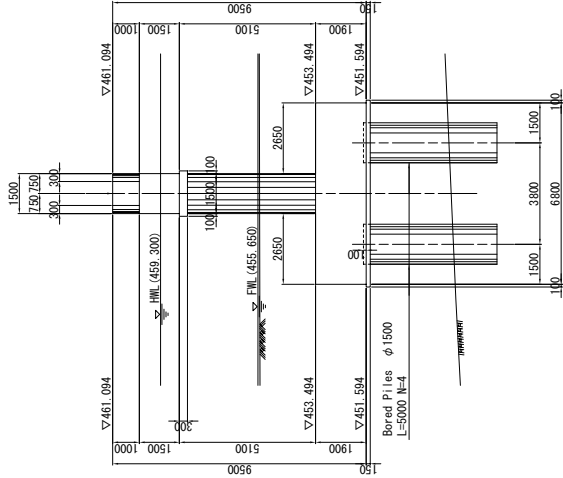
MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE: DIMENSION DETAILS FOR PIER7	SCALE	SHEET NO.
				1:10	
				DATE	NO-27
				OCT 2011	



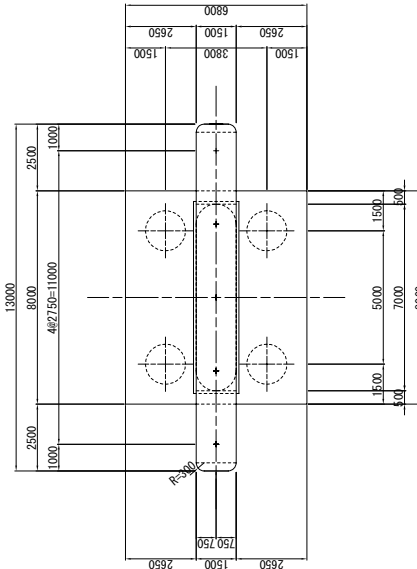
MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE:		DIMENSION DETAILS FOR PIER8	SHEET NO.
						11-0
						DATE
						NO-28
						OCT 2011



⊕ FRONT VIEW
SCALE 1:100



⊕ SIDE VIEW (1-1)
SCALE 1:100



⊕ PLAN (2-2)
SCALE 1:100

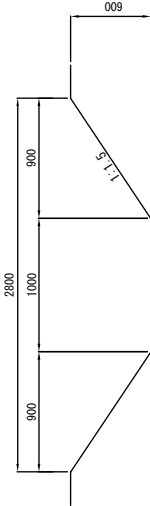
⊕ PIER P10 LAYOUT AND DIMENSIONS
SCALE 1:100

MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE: DIMENSION DETAILS FOR PIER10	SCALE	SHEET NO.
				1:1.0	
				DATE	NB-30
				OCT 2011	

Drainage Details (1)

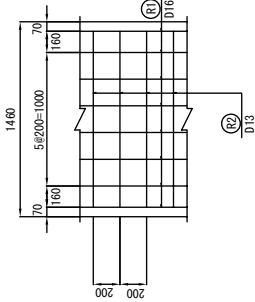
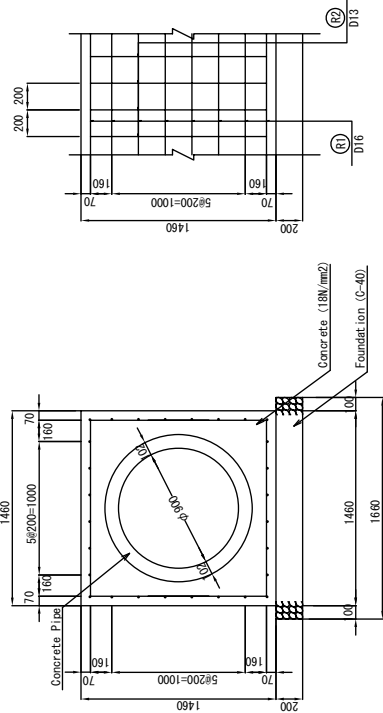
SCALE 1/20

Earth Ditch



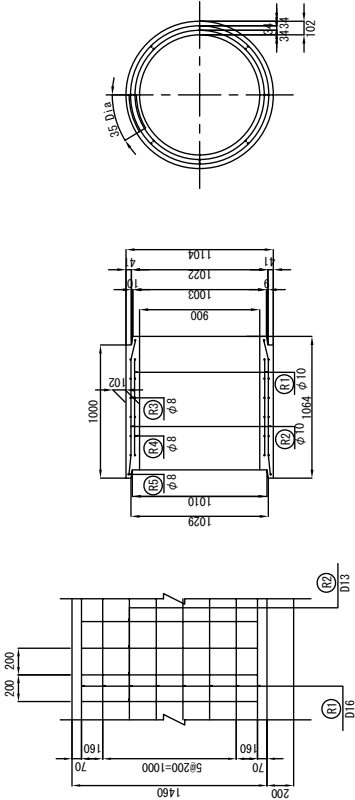
MATERIAL LIST				PER m	
TYPE	STANDARD	UNIT	QUANTITY	REMARKS	
Excavation	Sand	cu.m	1.140		

Pipe Culvert D900



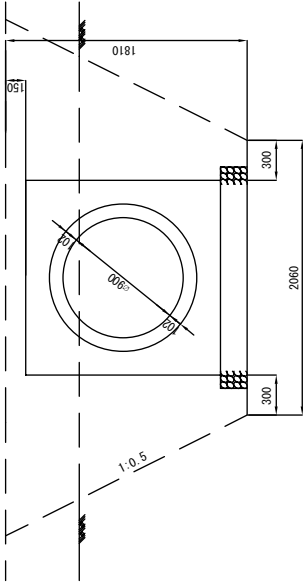
MATERIAL LIST				PER m	
TYPE	STANDARD	UNIT	QUANTITY	REMARKS	
Concrete	18N/mm2	cu.m	1.174	Concrete Pipe D900	
Form	24N/mm2	sq.m	0.321	Concrete Pipe D900	
Reinforced	Total	sq.m	7.341	Concrete Pipe D900	
	D13	kg	12.610		
	D16	kg	30.945		
	D18	kg	43.680		
Foundation	18	kg	19.004	Concrete Pipe D900	
	10	kg	8.638	Concrete Pipe D900	
			C-40	0.332	

(Concrete Pipe D900)
LONGITUDINAL SECTION
TWO LINES OF CIRCULAR REINFORCEMENT



METHODS OF PIPE INSTALLATION

▽ FINISH GRADE LINE



STEP1 CONSTRUCT COMPACTED EMBANKMENT
TO AN ELEVATION 150mm ABOVE TOP
OF PROPOSED PIPE

STEP2 TRENCH THROUGH THIS COMPACTED
EMBANKMENT AND INSTALL PIPE OVER
GRANULAR BEDDING BACK FILL WITH
COMPACTED GRANULAR MATERIAL

MINISTRY OF TRANSPORT AND ROADS
GOVERNMENT OF SOUTHERN SUDAN

PRELIMINARY SURVEY FOR THE PROJECT FOR
CONSTRUCTION OF NILE RIVER BRIDGE
IN SOUTHERN SUDAN

JAPAN INTERNATIONAL COOPERATION AGENCY
CTI ENGINEERING INTERNATIONAL CO., LTD.
EIGHT-JAPAN ENGINEERING CONSULTANTS INC.

TITLE:

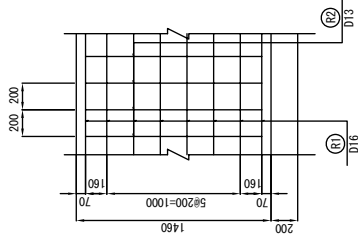
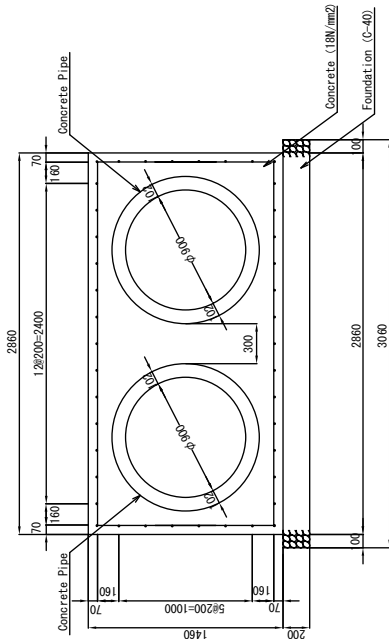
DRAINAGE DETAILS OF APPROACH ROAD (1)

SCALE	SHEET NO.
1/20	1/20
DATE	
OCT 2011	NB-32

Drainage Details (2)

SCALE 1/20

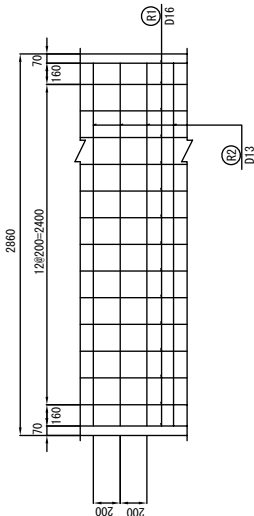
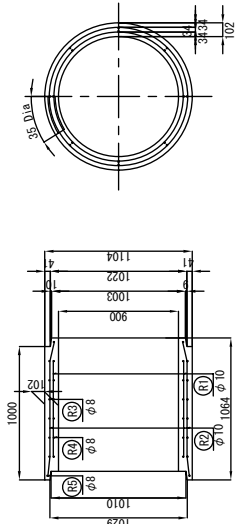
Pipe Culvert D900 (2@D900)



(Concrete Pipe D900)

LONGITUDINAL SECTION

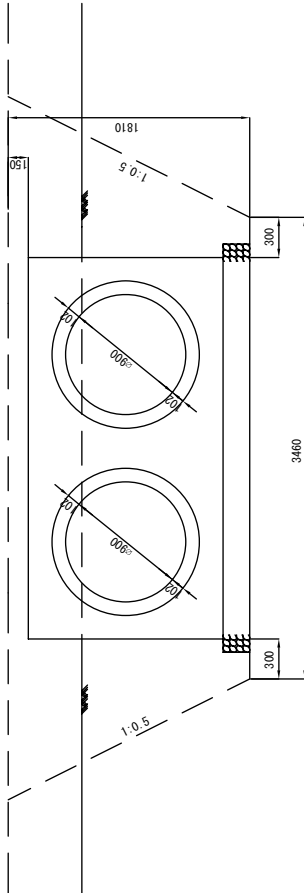
TWO LINES OF CIRCULAR REINFORCEMENT



METHODS OF PIPE INSTALLATION

▽ FINISH GRADE LINE

MATERIAL LIST				PER m	
TYPE	STANDARD	UNIT	QUANTITY	REMARKS	
Concrete	18N/mm2	cu.m	2.261	(Concrete Pipe D900)	
	24N/mm2	cu.m	0.642	(Concrete Pipe D900)	
Form		sq.m	7.442	(Concrete Pipe D900)	
		sq.m	14.682	(Concrete Pipe D900)	
Reinforced		kg	22.124	Total	
	D13	kg	44.775		
	D16	kg	65.520		
	φ 8	kg	38.008	(Concrete Pipe D900)	
Foundation	φ 10	kg	17.276	(Concrete Pipe D900)	
	C-40	cu.m	0.612		



STEP1
CONSTRUCT COMPACTED EMBANKMENT
TO ADEQUATE 50mm ABOVE TOP
OF PROPOSED PIPE

STEP2
TRENCH THROUGH THIS COMPACTED
EMBANKMENT AND INSTALL PIPE OVER
GRANULAR BEDDING BACK FILL WITH
COMPACTED GRANULAR MATERIAL

MINISTRY OF TRANSPORT AND ROADS
GOVERNMENT OF SOUTHERN SUDAN

PRELIMINARY SURVEY FOR THE PROJECT FOR
CONSTRUCTION OF NILE RIVER BRIDGE
IN SOUTHERN SUDAN

JAPAN INTERNATIONAL COOPERATION AGENCY
CTI ENGINEERING INTERNATIONAL CO., LTD.
EIGHT-JAPAN ENGINEERING CONSULTANTS INC.

TITLE:

DRAINAGE DETAILS OF APPROACH ROAD (2)

SCALE

1/20

DATE

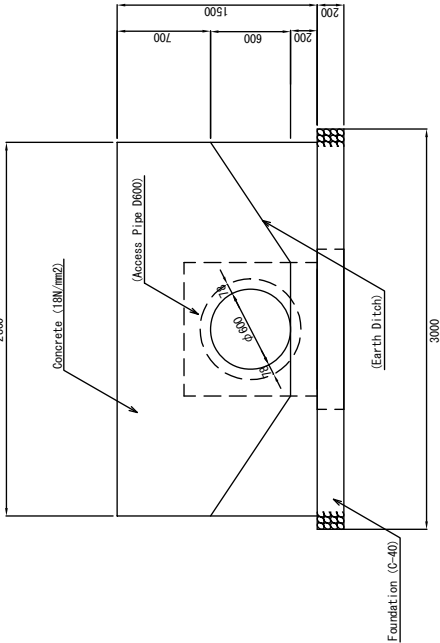
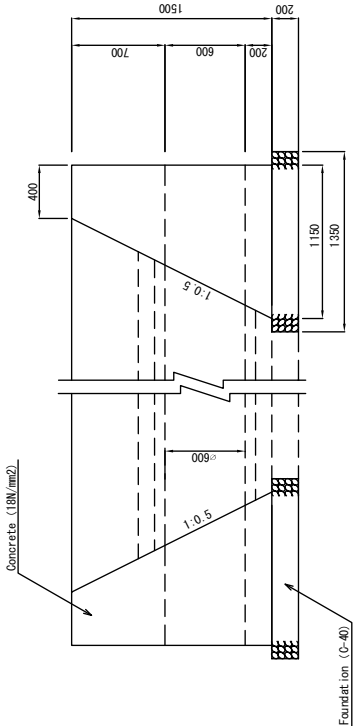
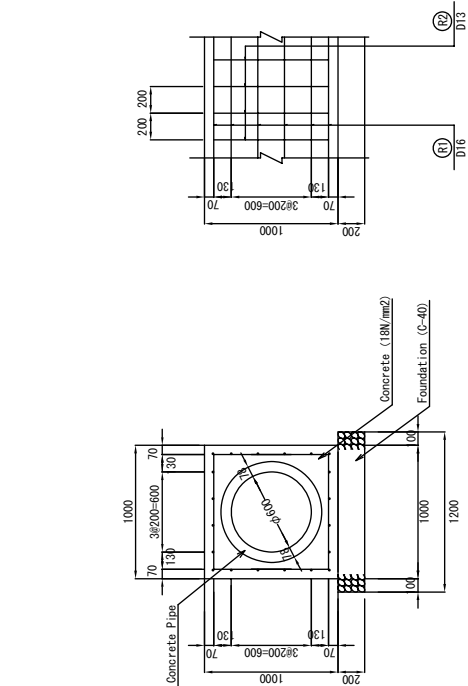
NIB-33

OCT 2011

SHEET NO.

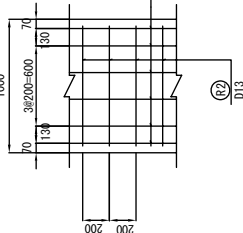
Access Pipe D600

Head Wall



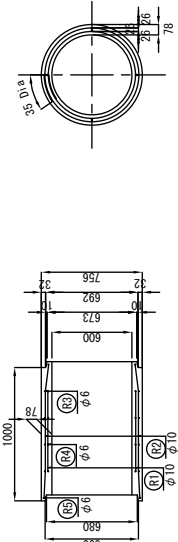
MATERIAL LIST				PER NOS.	
TYPE	STANDARD	UNIT	QUANTITY	REMARKS	
Concrete	18N/mm²	cu.m	3.001		
Form		sq.m	10.622		
Foundation	C-40	cu.m	0.810		

MATERIAL LIST				PER m	
TYPE	STANDARD	UNIT	QUANTITY	REMARKS	
Concrete	18N/mm²	cu.m	0.551	(Concrete Pipe D600)	
Form	24N/mm²	sq.m	3.102	(Concrete Pipe D600)	
		sq.m	4.780	(Concrete Pipe D600)	
		kg	21.293		
Reinforced	D16	kg	31.200	(Concrete Pipe D600)	
	φ6	kg	5.464	(Concrete Pipe D600)	
Foundation	C-40	cu.m	0.240	(Concrete Pipe D600)	



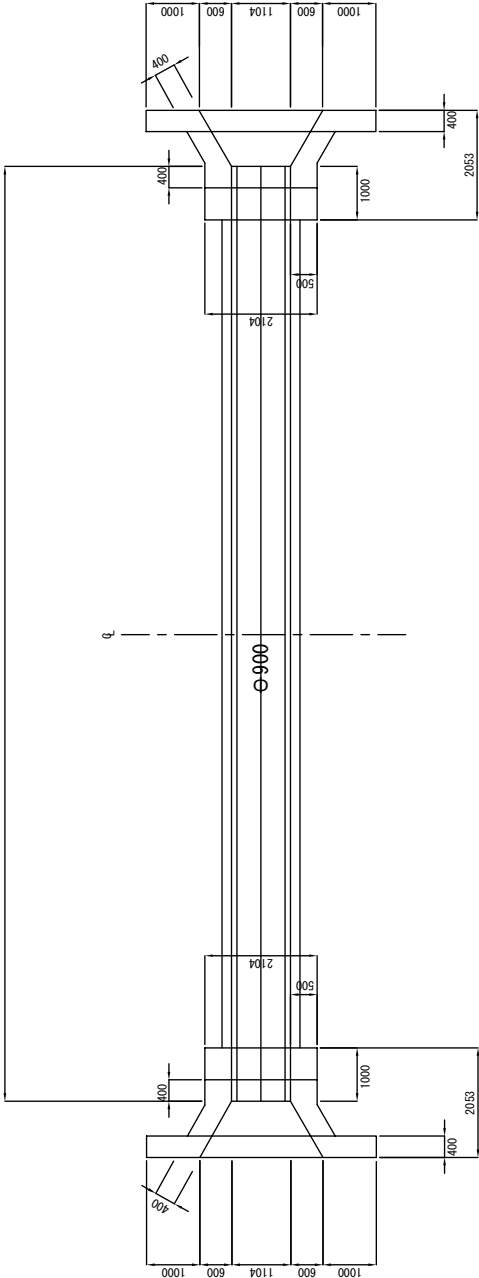
(Concrete Pipe D600)

TWO LINES OF CIRCULAR REINFORCEMENT

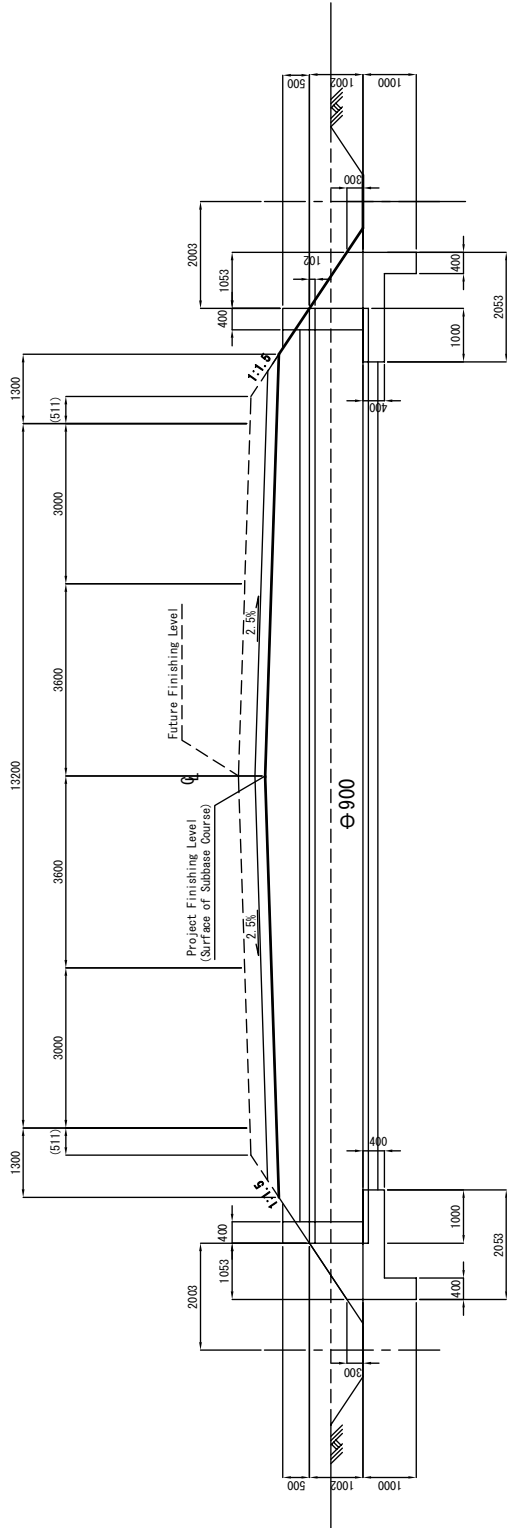


Inlet Outlet
PLAN

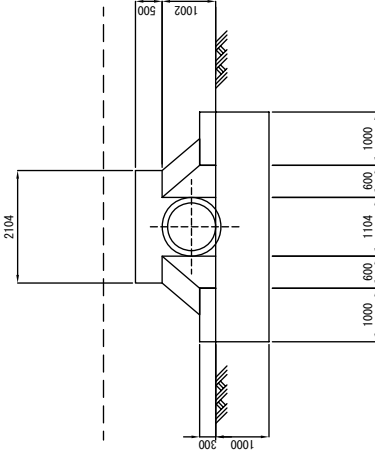
Pipe Culvert Length



SECTION



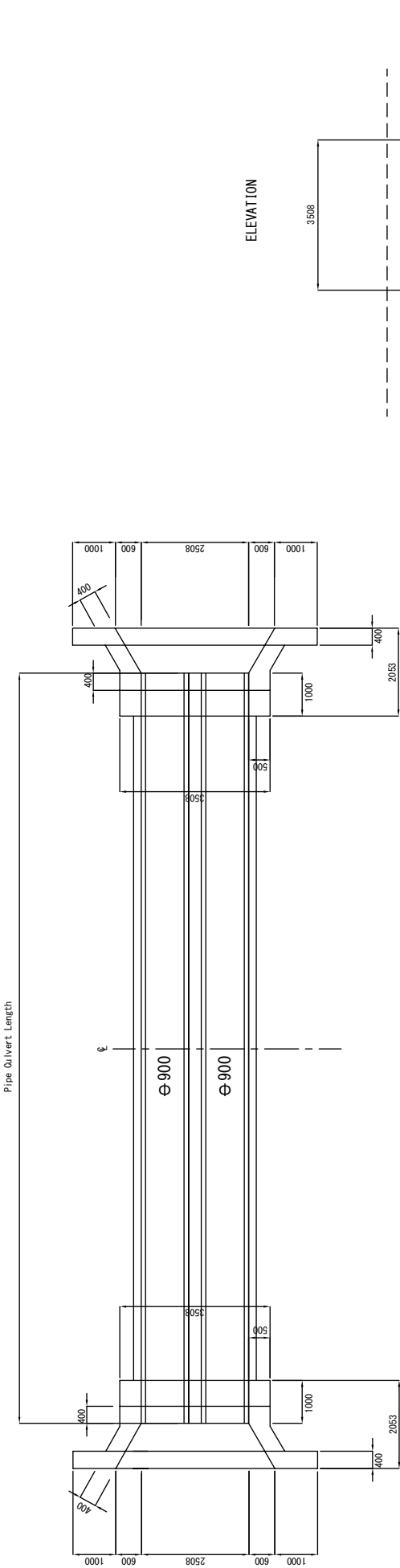
ELEVATION



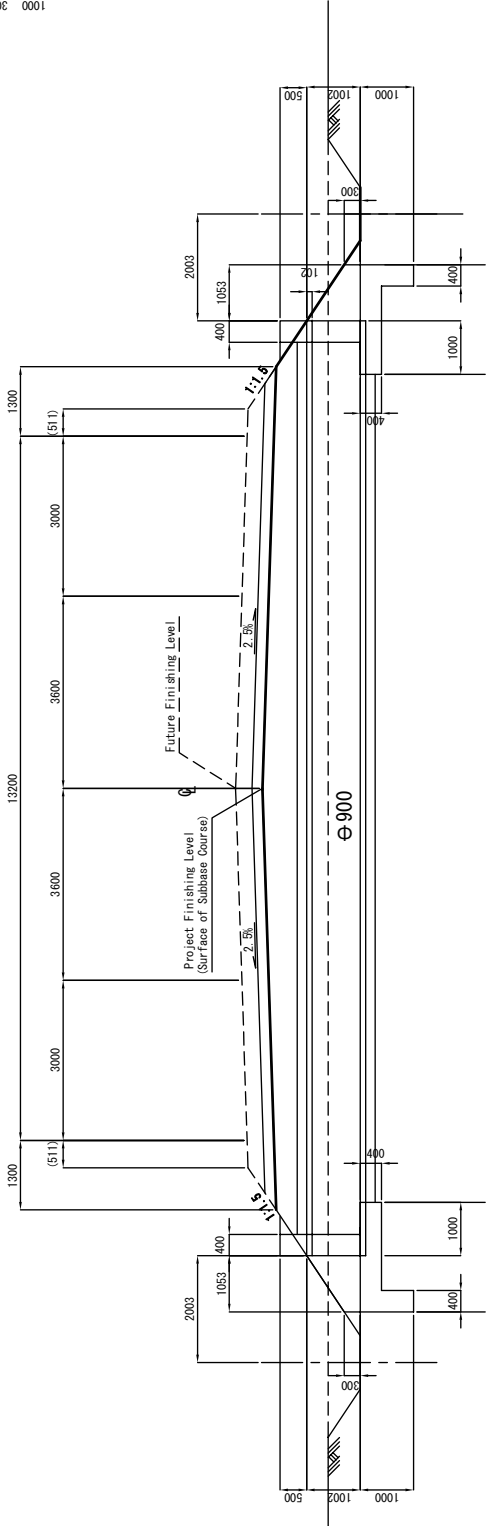
MATERIAL LIST				PER NOS.	
TYPE	STANDARD	UNIT	QUANTITY	REMARKS	
Concrete	180/mm2	sq. m	5.377		
Form		sq. m	18.119		

MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE: DRAINAGE DETAILS OF APPROACH ROAD (4)	SCALE	SHEET NO.
				1/50	
				DATE	NB-35
				OCT 2011	

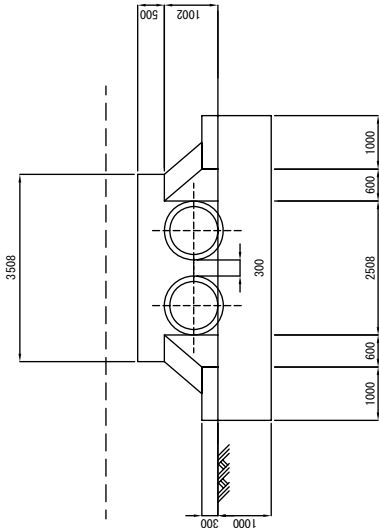
Inlet Out let (2@D900)
PLAN



SECTION



ELEVATION



MATERIAL LIST				PER NOS.	
TYPE	STANDARD	UNIT	QUANTITY	REMARKS	
Concrete	18N/mm ²	cu m	7.522		
Form		sq m	23.230		

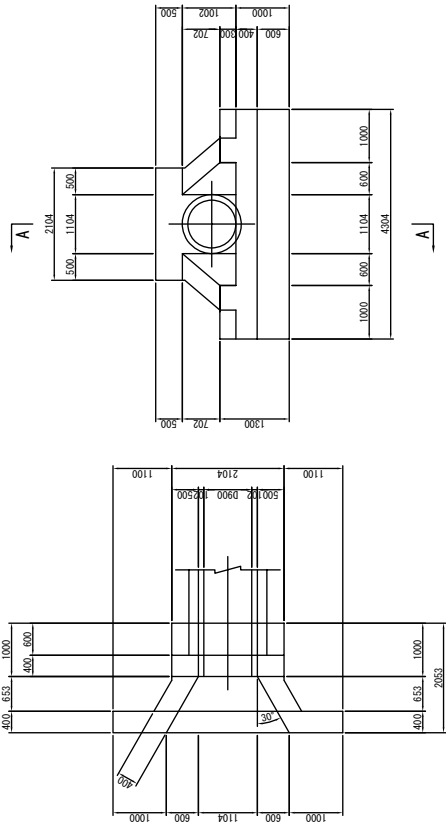
MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE: DRAINAGE DETAILS OF APPROACH ROAD (5)	SCALE	SHEET NO.
				1/50	
				DATE	NB-36 OCT 2011

Drainage Details (6)

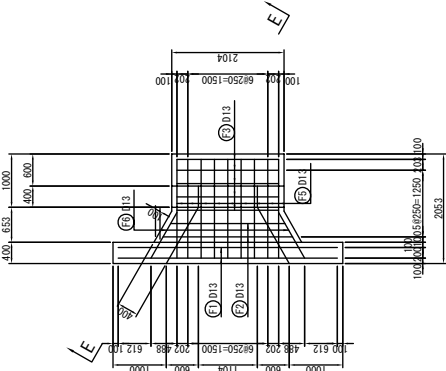
SCALE 1/50

INLET (OUTLET) STRUCTURE

ELEVATION



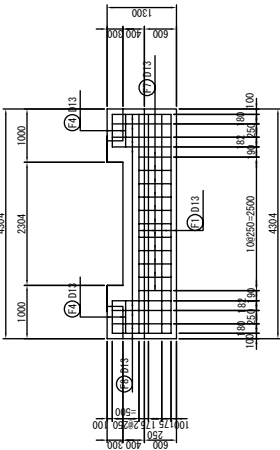
B-B



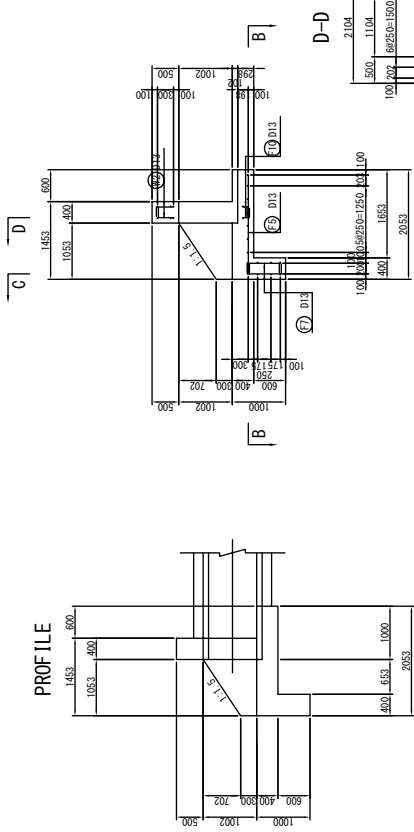
List of Bars

Items	Dia	Length mm	Unit	kg/m	Kg/Unit	Mass kg	Remarks
F1	D13	4110	8	0.995	4.088	32.7	—
F2	D13	2290	2	0.995	2.279	4.6	(ANE L)
F3	D13	1910	9	0.995	1.900	17.1	—
F4	D13	620	8	0.995	0.617	4.9	—
F5	D13	1860	9	0.995	1.851	16.7	—
F6	D13	960	2	0.995	0.985	2.0	—
F7	D13	960	22	0.995	0.985	21.0	C
F8	D13	1460	16	0.995	1.453	23.2	C
F9	D13	2070	8	0.995	2.060	16.5	C
F10	D13	400	10	0.995	0.398	4.0	L (ANE L)
F11	D13	1110	8	0.995	1.104	8.8	L (ANE L)
F12	D13	1450	4	0.995	1.443	5.8	—
W1	D13	460	20	0.995	0.458	9.2	(ANE L)
W2	D13	600	10	0.995	0.597	6.0	F (ANE L)
W3	D13	910	4	0.995	0.905	3.6	(ANE L)
W4	D13	1670	2	0.995	1.662	3.3	—
HI	D13	4520	2	0.995	4.497	9.0	O
						D13	188.4 kg
						Total	188.4 kg

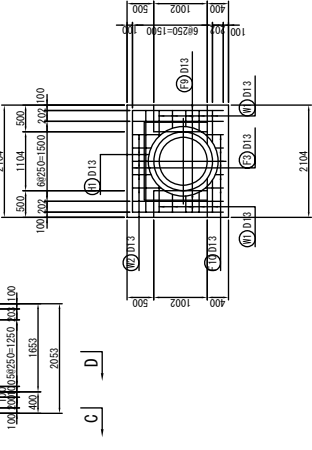
C-C



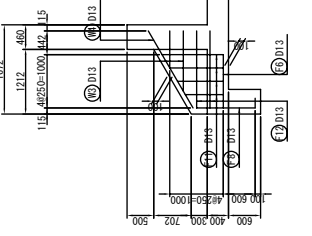
A-A



D-D



E-E



4104

8-D13-4110

2-D13-2290 (AVERAGE LENGTH)

9-D13-1910

1804

4104

8-D13-4110

2-D13-2290 (AVERAGE LENGTH)

9-D13-1910

1804

4104

8-D13-4110

2-D13-2290 (AVERAGE LENGTH)

9-D13-1910

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2-D13-2290 (AVERAGE LENGTH)

9-D13-1910

1804

4104

8-D13-4110

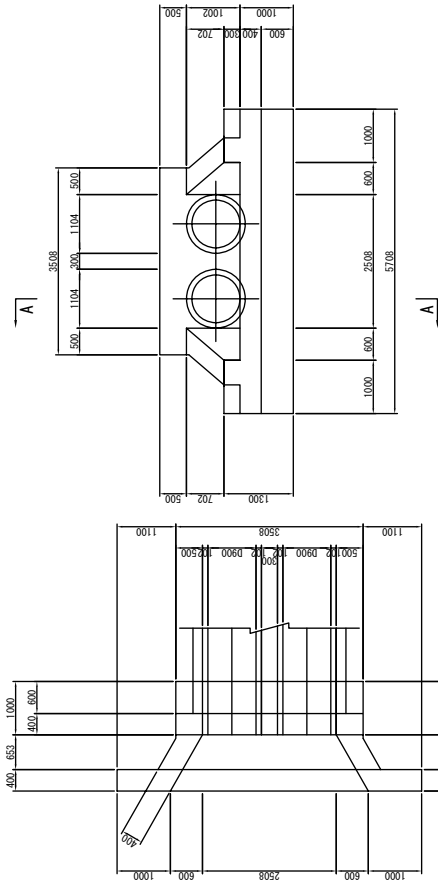
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Drainage Details (7)

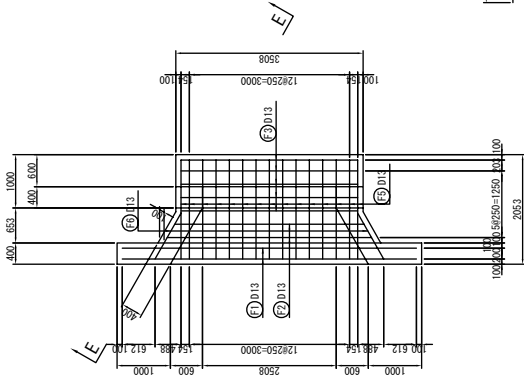
SCALE 1/50

INLET (OUTLET) 2@900 STRUCTURE

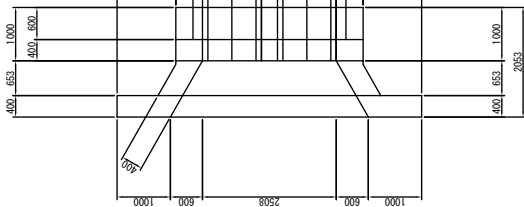
ELEVATION



B-B



PLAN



List of Bars

Items	Dia	Length (mm)	Unit	kg/m	kg/Unit	Mass (kg)	Remarks
F1	D13	5510	8	0.995	5.482	43.9	—
F2	D13	3960	2	0.995	3.672	7.3	(AVE. L)
F3	D13	3310	9	0.995	3.293	29.6	—
F4	D13	630	8	0.995	0.617	4.9	—
F5	D13	1860	15	0.995	1.851	27.8	—
F6	D13	960	2	0.995	0.955	2.0	—
F7	D13	960	34	0.995	0.955	32.5	(AVE. L)
F8	D13	1460	16	0.995	1.453	23.2	(AVE. L)
F9	D13	2070	10	0.995	2.060	20.6	(AVE. L)
F10	D13	480	20	0.995	0.428	8.6	(AVE. L)
F11	D13	1110	8	0.995	1.104	8.8	(AVE. L)
F12	D13	1450	4	0.995	1.443	5.8	—
W1	D13	460	20	0.995	0.458	9.2	(AVE. L)
W2	D13	640	20	0.995	0.637	12.7	(AVE. L)
W3	D13	910	4	0.995	0.995	3.6	(AVE. L)
W4	D13	1070	2	0.995	1.062	3.3	—
H1	D13	4520	4	0.995	4.497	18.0	(AVE. L)
					D13	261.8	kg
					Total	201.8	kg

5508

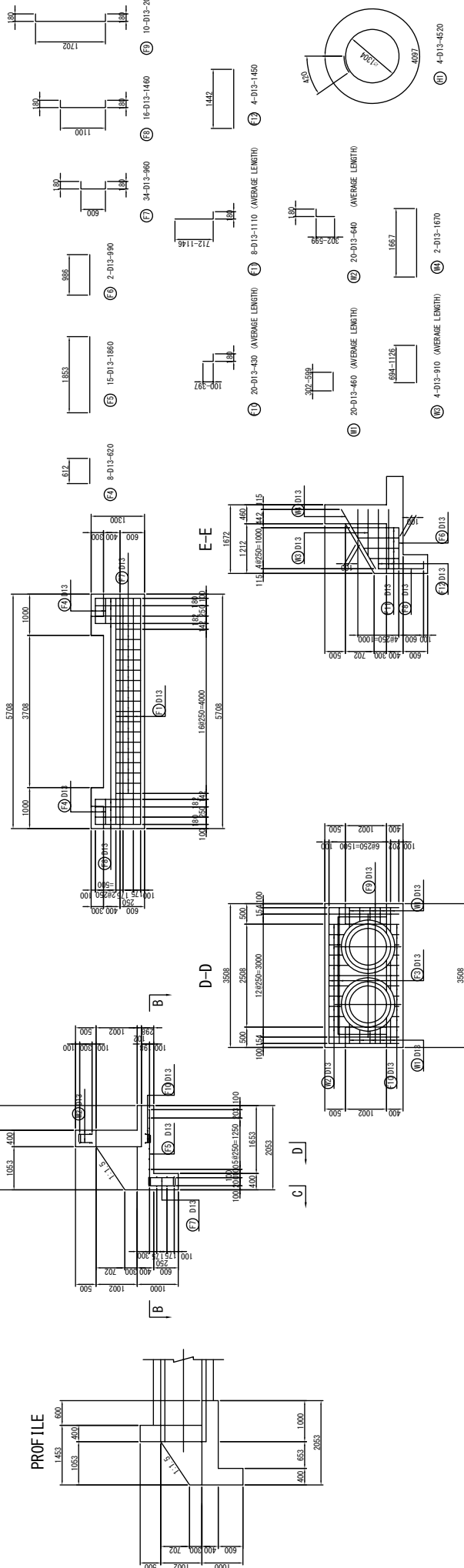
3544-3829

3308

Ⓔ 8-D13-5510

Ⓔ 2-D13-3960 (AVERAGE LENGTH)

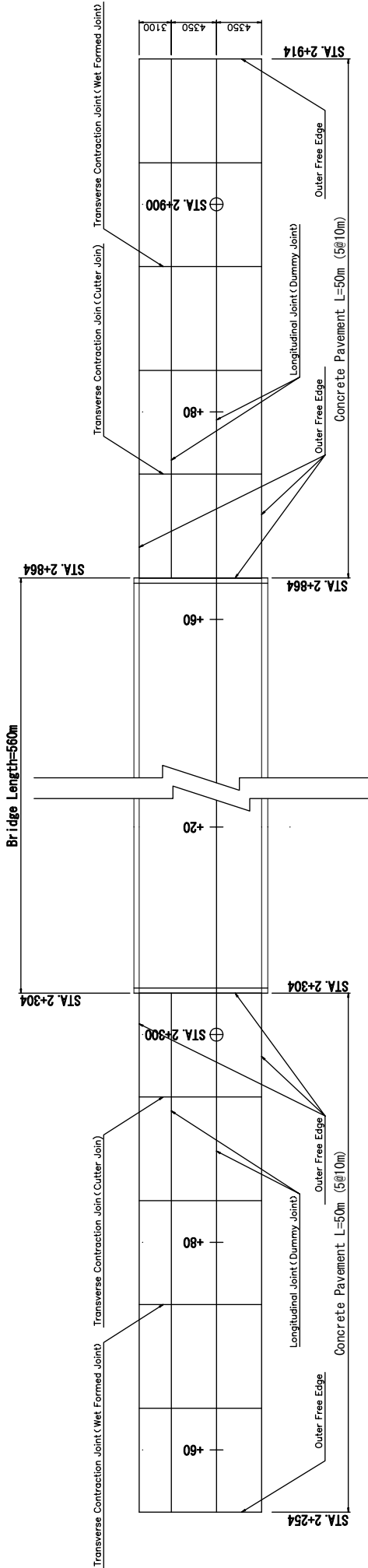
Ⓔ 9-D13-3310



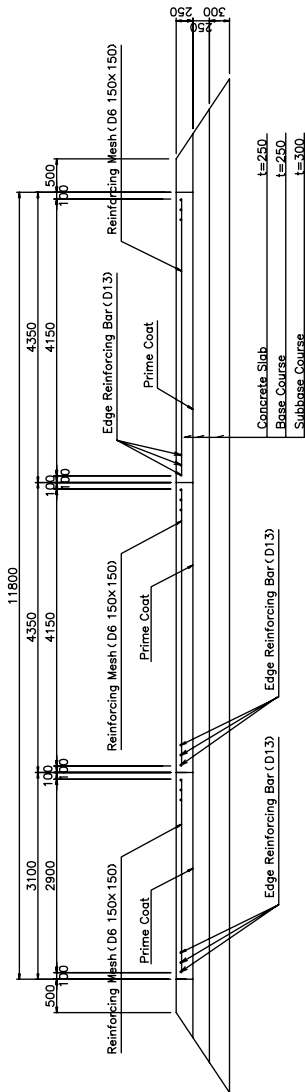
Detailed Drawings for Concrete Pavement Construction (1)

Joint Arrangement Illustration S=1:250

Longitudinal Joint (Dummy Joint)	STA. 2+254~STA. 2+304		50 x 2 Point
	STA. 2+864~STA. 2+914		50 x 2 Point
			Σ L=200. 00m
Transverse Contraction Joint (Cutter Joint)	11. 80 x 6 Point		
	11. 80 x 2 Point		
			Σ L=70. 80m
Transverse Contraction Joint (Wet Formed Joint)	11. 80 x 2 Point		
	50 x 2 Point+11. 80 x 2 Point		
	STA. 2+254~STA. 2+304		L=123. 60m
Outer Free Edge	50 x 2 Point+11. 80 x 2 Point		
	STA. 2+864~STA. 2+914		L=123. 60m
			Σ L=247. 20m



Standard Pavement Section S=1:40



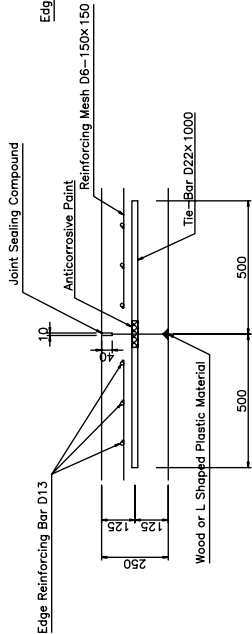
Legend	Longitudinal Joint (Dummy Joint)
	Transverse Contraction Joint (Cutter Joint)
	Transverse Contraction Joint (Wet Formed Joint)
	Outer Free Edge

MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE: Drawings for Concrete Pavement Construction (1)	SCALE	SHEET NO.
				1:250	1:40
				DATE	NB-39
				oct 2011	

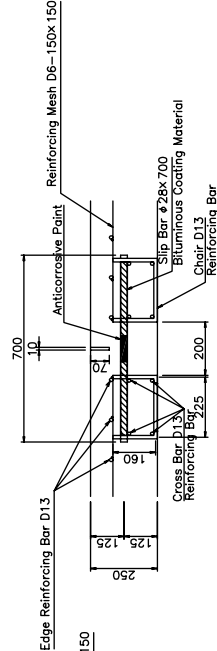
Detailed Drawings for Concrete Pavement Construction (2)

Joint Details

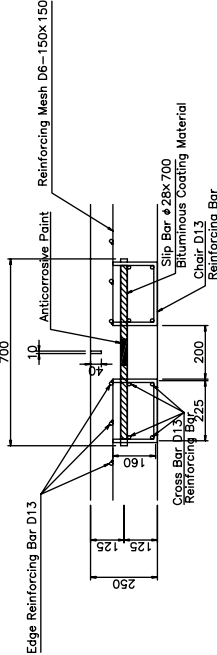
Longitudinal Joint (Dummy Joint) S=1:10



Transverse Contraction Join (Cutter Joint) S=1:10

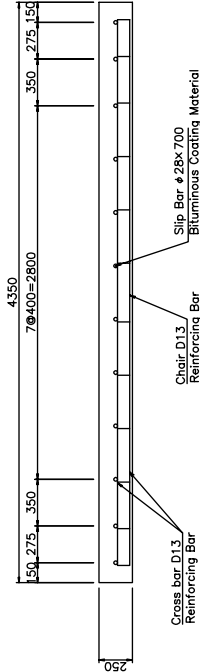


Transverse Contraction Joint (Wet Formed Joint) S=1:10

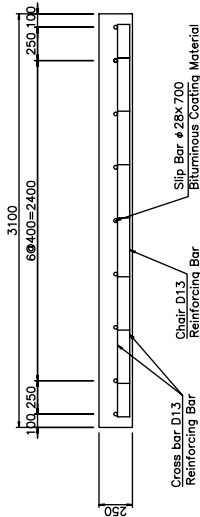


Slip Bar Layout S=1:20

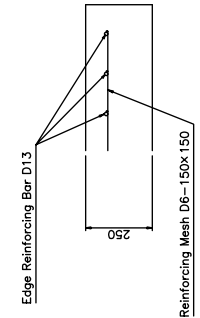
W=4, 35m



W=3, 10m



Outer Free Edge S=1:10

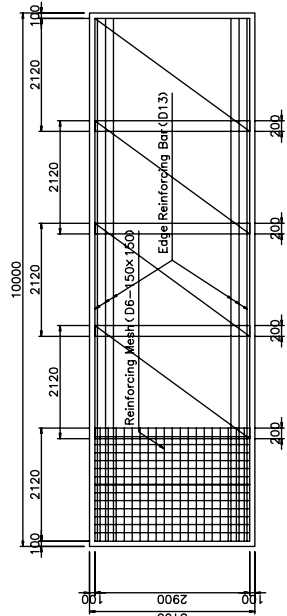
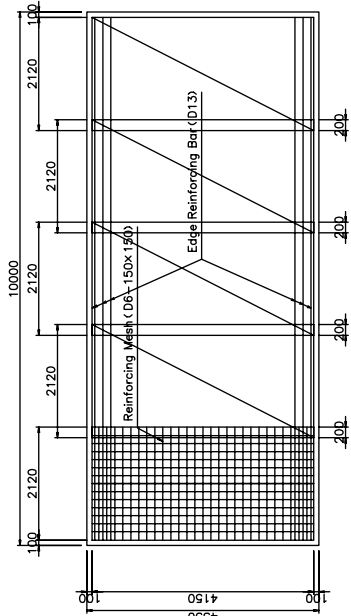


Material List

Classification	Details	Standard Dimensions	Unit	Quantity For Road Construction	Remarks
Concrete slab	Concrete	t=25cm	sq.m	1180.0	
Base Course		t=25cm	sq.m	1392.5	
Subbase Course		t=30cm	sq.m	1475.0	
Prime Coat			sq.m	1180.0	
Reinforcing Mesh		D6-150x150	t	3.6	3.05kg/m ²
Reinforcing Bar		D13	t	2.7	0.995kg/m
Slip Bar		28	t	0.9	4.83kg/m
Tie Bar		D22	t	0.6	3.04kg/m
Joint	Longitudinal Joint	Dummy Joint	m	200.0	
	Transverse Contraction Joint	Cutter Joint	m	70.8	
	Outer Free Edge	Wet Formed Joint	m	23.6	
			m	247.2	

Reinforcing Mesh and Edge Reinforcing Bar Layout

S=1:50



MINISTRY OF TRANSPORT AND ROADS
GOVERNMENT OF SOUTHERN SUDAN

PRELIMINARY SURVEY FOR THE PROJECT FOR
CONSTRUCTION OF NILE RIVER BRIDGE
IN SOUTHERN SUDAN

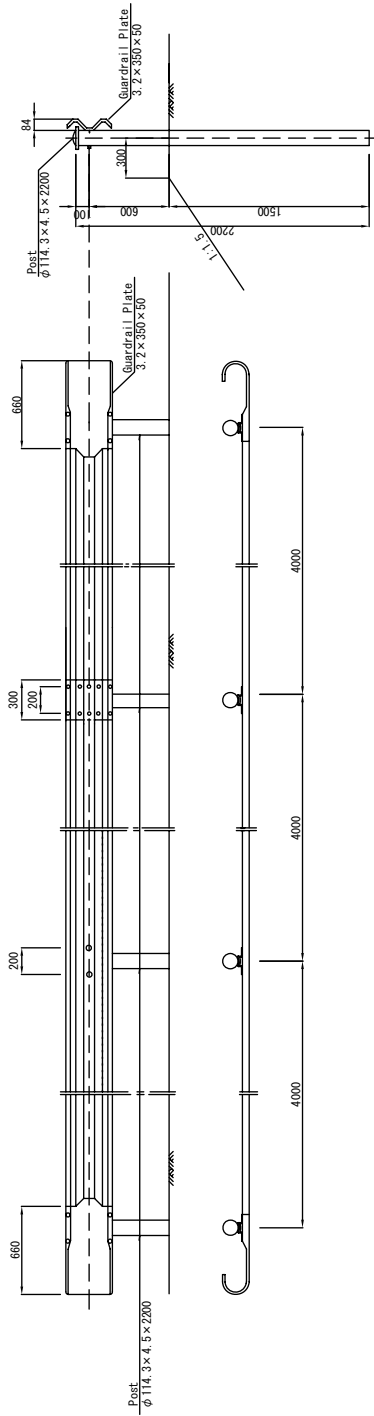
JAPAN INTERNATIONAL COOPERATION AGENCY
CTI ENGINEERING INTERNATIONAL CO., LTD.
EIGHT-JAPAN ENGINEERING CONSULTANTS INC.

TITLE:
Drawings for Concrete Pavement Construction (2)

SHEET NO.
1:10
1:50
DATE
oct 2011

Ancillary Structure(1) SCALE 1:20

Guardrail



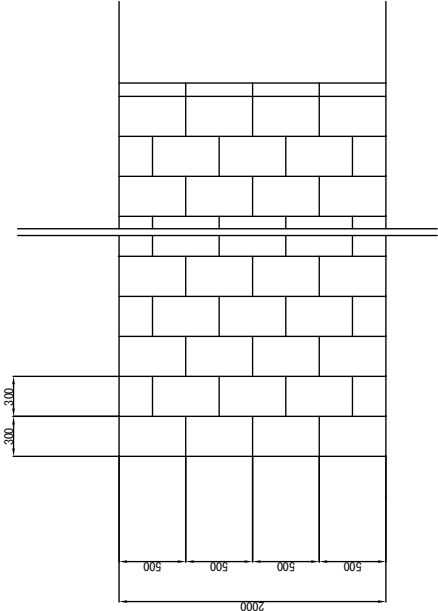
MATERIAL LIST				PER 10m	
TYPE	STANDARD	UNIT	QUANTITY	REMARKS	
Guardrail Plate	3.2 × 350 × 50	m	10.0		
Post	φ 114, 3 × 4, 5 × 2200	no.	2.5		

MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE: Ancillary Structure (1)			SHEET NO.
						SCALE
						1/20
						DATE
						NO-41
						OCT 2011

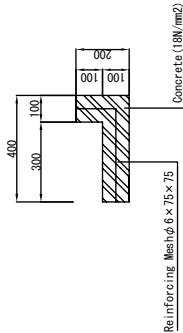
Ancillary Structure (2)

Step

Plan SCALE 1:20

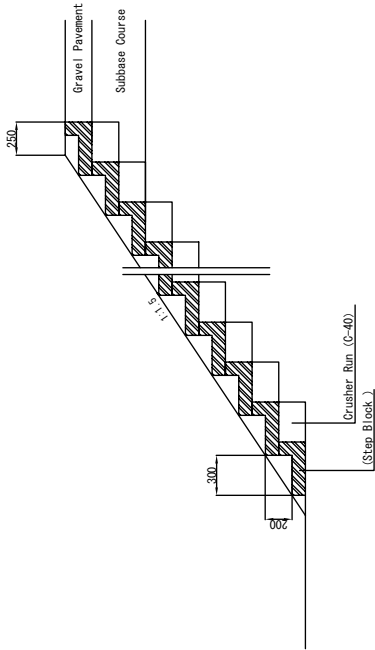


(Step Block)
SCALE 1:10



MATERIAL LIST				PER Nos.	
TYPE	STANDARD	UNIT	QUANTITY	REMARKS	
Concrete	18N/mm2	cu.m	0.025		
Form		sq.m	0.300		
Reinforcing Mesh	6 x 75 x 75	Kg	1.450		

Profile SCALE 1:20



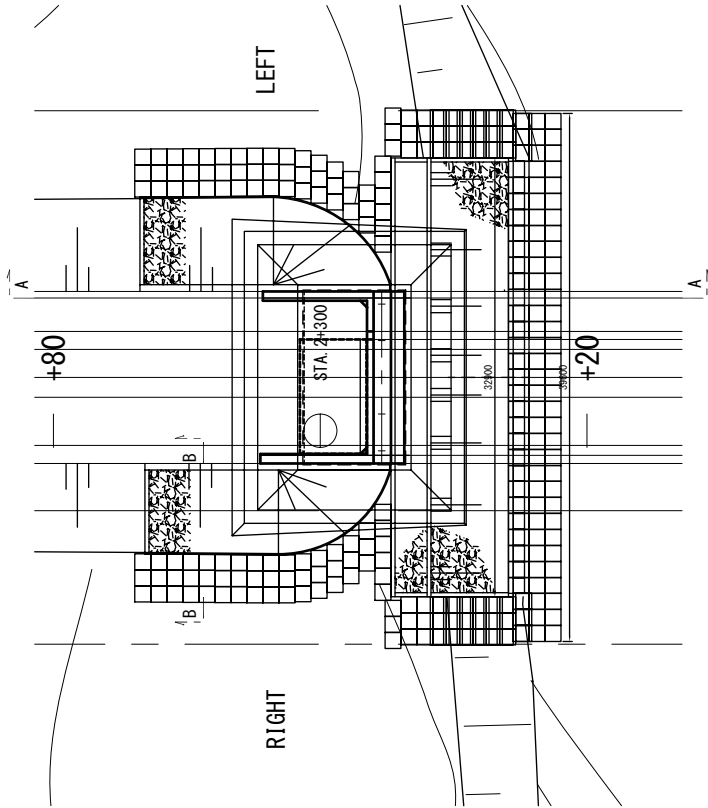
MATERIAL LIST				PER m	
TYPE	STANDARD	UNIT	QUANTITY	REMARKS	
(Step Block)		Nos.	13.3		
Crusher Run	C-40	cu.m	0.24		

MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE:		
			SCALE		
			1:10 1:20		
			DATE OCT 2011		
Ancillary Structure (2)			SHEET NO. NB-42		

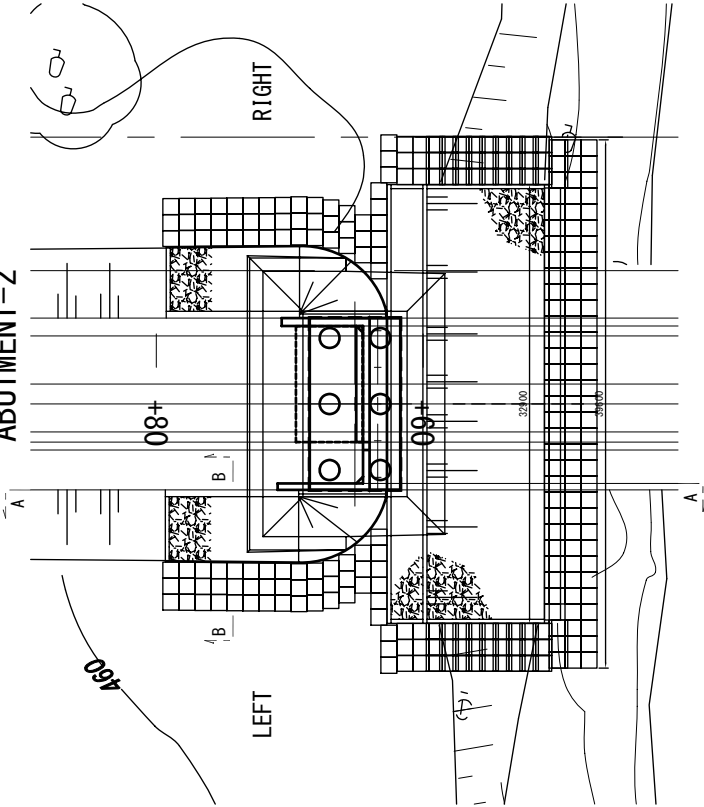
SLOPE PROTECTION LAYOUT AND DETAILS (1)

PLAN S=1:200

ABUTMENT-1

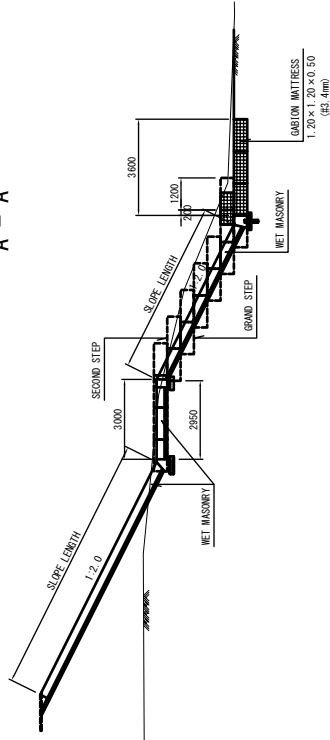


ABUTMENT-2

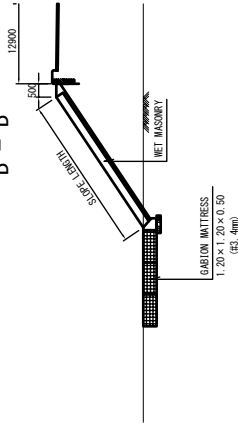


CROSS SECTION S=1:100

A - A

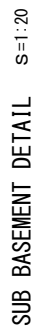


B - B



MINISTRY OF TRANSPORT AND ROADS GOVERNMENT OF SOUTHERN SUDAN	PRELIMINARY SURVEY FOR THE PROJECT FOR CONSTRUCTION OF NILE RIVER BRIDGE IN SOUTHERN SUDAN	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD. EIGHT-JAPAN ENGINEERING CONSULTANTS INC.	TITLE:		
			SCALE	SHEET NO.	
			1:200 1:100		
			DATE	NB-43	
			OCT 2011		

BASEMENT DETAIL S=1:20



SLOPE PROTECTION LAYOUT AND DETAILS (2)