

- 照明は「マ」国政府の要望もなく、かつ、通電もないため、時期尚早と判断し設けない。

3.2.3 基本設計図

3.2.3.1 橋梁基本諸元

バレ橋の基本諸元を表 3.2.3-1 に示す。

表 3.2.3-1 橋梁基本諸元

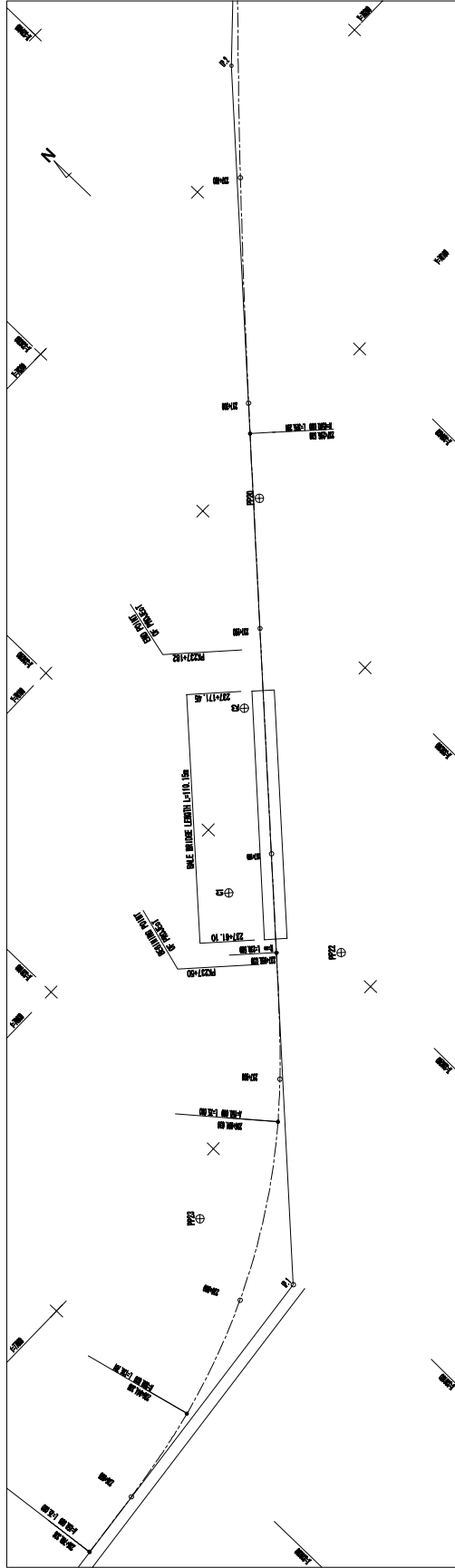
橋長(m)	スパン割(m)	上部工橋梁形式	橋台			橋脚			取付道路延長(m)
			数	躯体	基礎	数	躯体	基礎	
110.15	3スパン× 23.5m +40.0m	3径間連結合成 PC I桁橋⊕ 単純非合成鈹桁橋	2	逆T式	場所打 コンクリート 杭	3	パイルベント コンクリート多柱 式	29.7	

3.2.3.2 基本設計図

橋梁構造図、護岸工、取付道路等の設計図を次ページ以降に示す。

I N D E X

DRAWING NAME	BALE BRIDGE	SHEET No.
COORDINATES OF DESIGN ELEMENTS	_____	BA- 1
GENERAL VIEW OF BALE BRIDGE	_____	BA- 2
STRUCTURE DRAWING OF SUPPERS STRUCTURE	_____	BA- 3
DETAILS OF STEEL MAIN GIRDER G1, G4	_____	BA- 4
DETAILS OF STEEL MAIN GIRDER G2, G3	_____	BA- 5
CAMBER/Common DETAILS OF MAIN GIRDER	_____	BA- 6
GROSS BEAM FOR LOAD DISTRIBUTION	_____	BA- 7
SWAY BRACING	_____	BA- 8
LOWER LATERAL	_____	BA- 9
SHUT-UP RUBBER BEARING PLATE SHOE (FIX.)	_____	BA-10
SHUT-UP RUBBER BEARING PLATE SHOE (MOV)	_____	BA-11
DETAILS OF RAILING AND DRAINAGE	_____	BA-12
DETAILS OF EXPANSION JOINT	_____	BA-13
STRUCTURE DRAWING OF A1 ABUTMENT	_____	BA-14
STRUCTURE DRAWING OF A2 ABUTMENT	_____	BA-15
STRUCTURE DRAWING OF P1, P2 PILE BENT PIER	_____	BA-16
STRUCTURE DRAWING OF P3 PILE BENT PIER	_____	BA-17
TYPICAL GROSS SECTION OF ROAD	_____	BA-18
GROSS SECTIONS OF ROAD (1)	_____	BA-19
GROSS SECTIONS OF ROAD (2)	_____	BA-20
DETAIL OF BANK PROTECTION	_____	BA-21
DETAIL OF DITCH	_____	BA-22
DETAIL OF RUN OFF CONCRETE CUM AND GUIDE POST	_____	BA-23



LIST OF ELEMENTS OF HORIZONTAL ALIGNMENT

INTERSECTION POINT	X-COORDINATE (m)	Y-COORDINATE (m)	GRID AZIMUTH (Degrees)	ANGLE OF INTERSECTION (Degrees)	Parameter A(m)	RADIUS OF CURVATURE (m)
BP	338,912.7652	77,812.5915				
IP-1	339,081.2666	77,832.6938	6-48-11.7	40-08-41.2(R)	150.000	300.000
IP-2	339,450.6574	78,228.0973	46-56-52.9	4-09-16.1(L)	-4500.000	100.000
EP	339,615.9978	78,381.1696	42-47-36.8			

Note: negative numbers indicate clockwise curve.

COORDINATES OF STATIONS

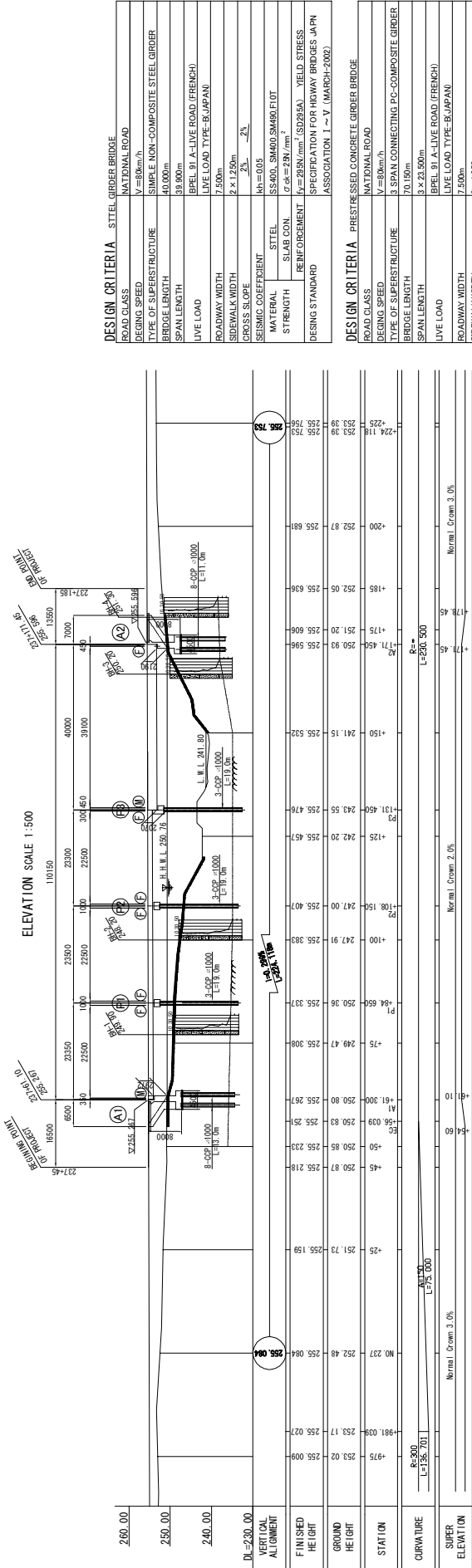
No.	STATIONS	X-COORDINATE (m)	Y-COORDINATE (m)	REMARKS
1	236+748.531	338,912.76520	77,812.59150	
2	236+760.000	338,924.15298	77,813.95007	
3	236+800.000	338,963.84855	77,818.87070	
4	236+900.000	339,060.00011	77,844.93513	
5	236+981.039	339,128.48086	77,887.80548	
6	237+000.000	339,142.69226	77,900.35397	
7	237+050.000	339,177.75775	77,935.98230	START POINT OF PROJECT
8	237+056.039	339,181.88153	77,940.39408	
9	237+061.100	339,185.33648	77,944.09234	ABUTMENT A1
10	237+100.000	339,211.89201	77,972.51792	BRIDGE
11	237+171.450	339,260.66817	78,024.72893	ABUTMENT A2
12	237+182.000	339,181.88153	77,940.39408	END POINT OF PROJECT
13	237+200.000	339,280.15816	78,045.59141	
14	237+286.539	339,339.23492	78,108.82839	
15	237+300.000	339,348.43900	78,118.65113	
16	237+400.000	339,417.72741	78,190.75317	

COORDINATES AND ELEVATION OF BENCH MARKS

SYMBOL	X-COORDINATE (m)	Y-COORDINATE (m)	ELEVATION (Z) (m)
PP23	339,073.580	77,882.769	253.4
PP22	339,201.828	77,919.824	250.596
PP21	339,300.923	77,916.220	248.248
PP20	339,321.458	18,085.888	253.703
C1	339,186.240	77,973.988	249.997
C2	339,249.920	78,025.941	251.355

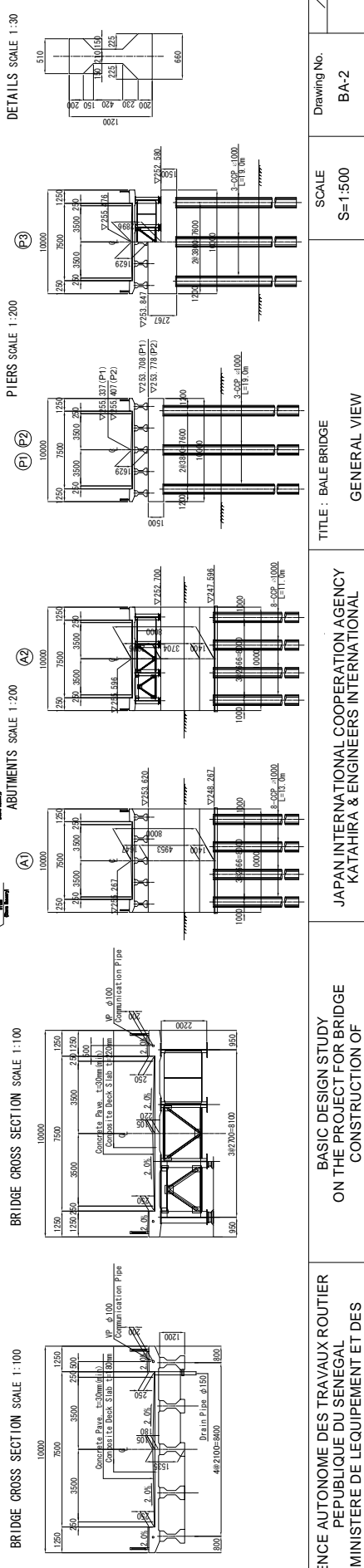
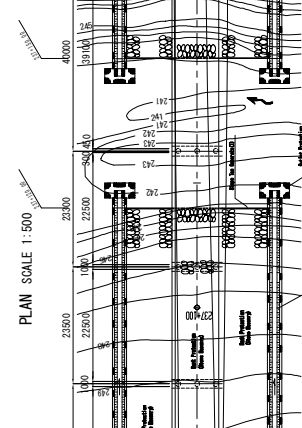
AGENCE AUTONOME DES TRAVAUX ROUTIER REPUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BALEBRIDGE	SCALE	Drawing No.
			COORDINATES OF DESIGN ELEMENTS	S=1:1000	BA-1

GENERAL VIEW OF BAILE BRIDGE



DESIGN CRITERIA		STEEL GIRDER BRIDGE	
ROAD CLASS	NATIONAL ROAD	DESIGN SPEED	V=80km/h
TYPE OF SUPERSTRUCTURE	SIMPLE NON-COMPOSITE STEEL GIRDER	BRIDGE LENGTH	400.00m
SPAN LENGTH	39.00m	LIVE LOAD	BPEL 91 A-LIVE ROAD (FRENCH)
ROADWAY WIDTH	7.50m	CROSS SLOPE	2% x 1.250m
SEISMIC COEFFICIENT	kh=0.05	MATERIAL	SS400, SMD80 SMD80 F10T
STRENGTH	σ sk=23N/mm ²	REINFORCEMENT	STEEL
DESIGN STANDARD	SPECIFICATION FOR HIGHWAY BRIDGES JAPAN ASSOCIATION 1 ~ V (MARCH-2002)		

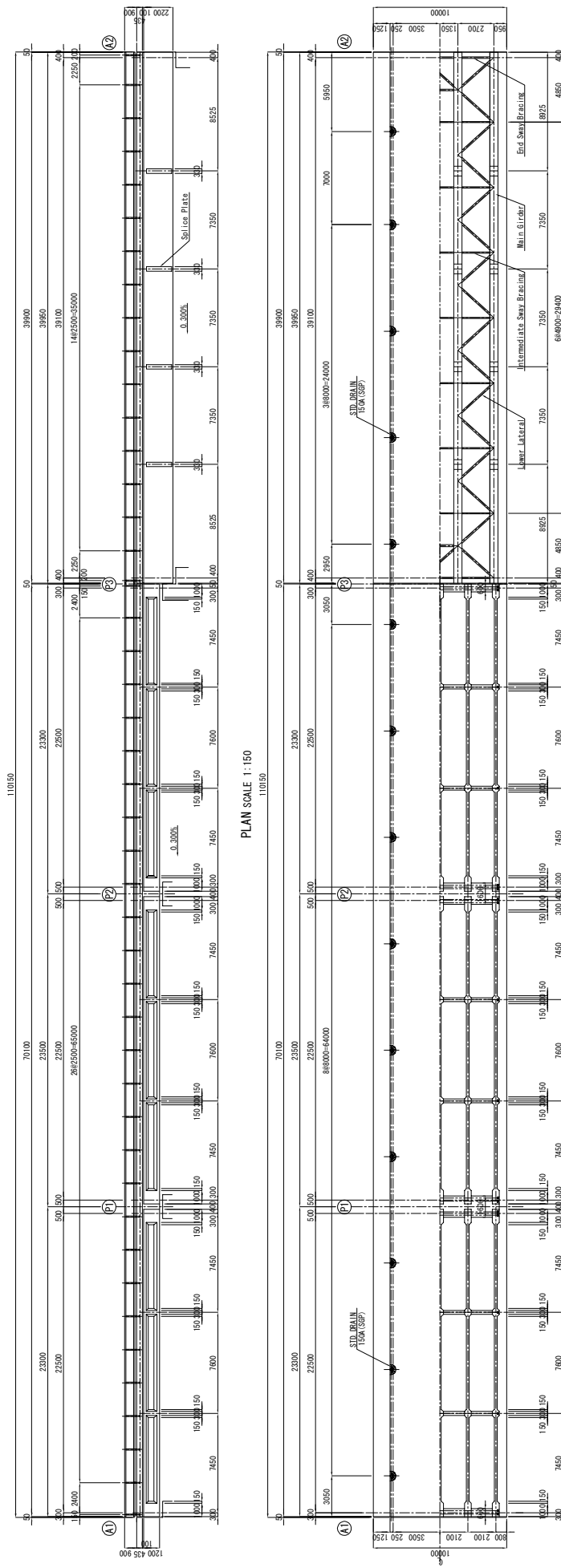
DESIGN CRITERIA		PRESTRESSED CONCRETE GIRDER BRIDGE	
ROAD CLASS	NATIONAL ROAD	DESIGN SPEED	V=80km/h
TYPE OF SUPERSTRUCTURE	3 SPAN CONNECTING PC-COMPOSITE GIRDER	BRIDGE LENGTH	70.15m
SPAN LENGTH	3 x 23.500m	LIVE LOAD	BPEL 91 A-LIVE ROAD (FRENCH)
ROADWAY WIDTH	7.500m	CROSS SLOPE	2% x 1.250m
SEISMIC COEFFICIENT	kh=0.05	MATERIAL	σ sk=38N/mm ²
STRENGTH	σ sk=24N/mm ²	REINFORCEMENT	STEEL
DESIGN STANDARD	SPECIFICATION FOR HIGHWAY BRIDGES JAPAN ASSOCIATION 1 ~ V (MARCH-2002)		



AGENCE AUTONOME DES TRAVAUX ROUTIER PEUPLELIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BAILE BRIDGE GENERAL VIEW	SCALE S=1:500	Drawing No. BA-2
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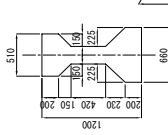
STRUCTURE DRAWING OF SUPERSTRUCTURE

ELEVATION SCALE 1:150

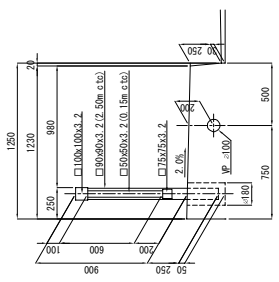


PLAN SCALE 1:150

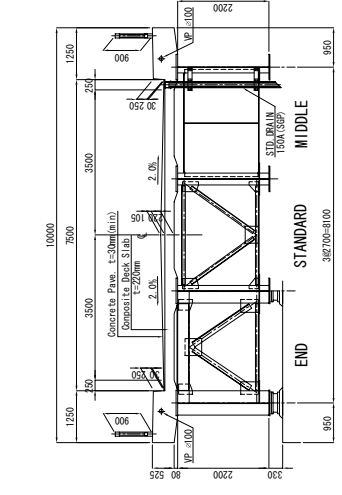
BRIDGE CROSS SECTION SCALE 1:60



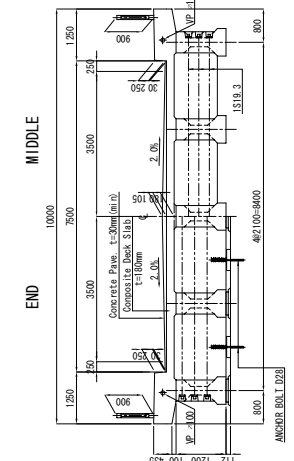
DETAILS SCALE 1:20



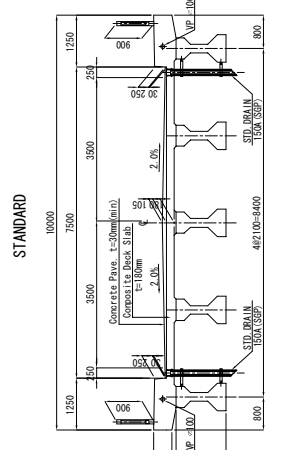
BRIDGE CROSS SECTION SCALE 1:60



BRIDGE CROSS SECTION SCALE 1:60

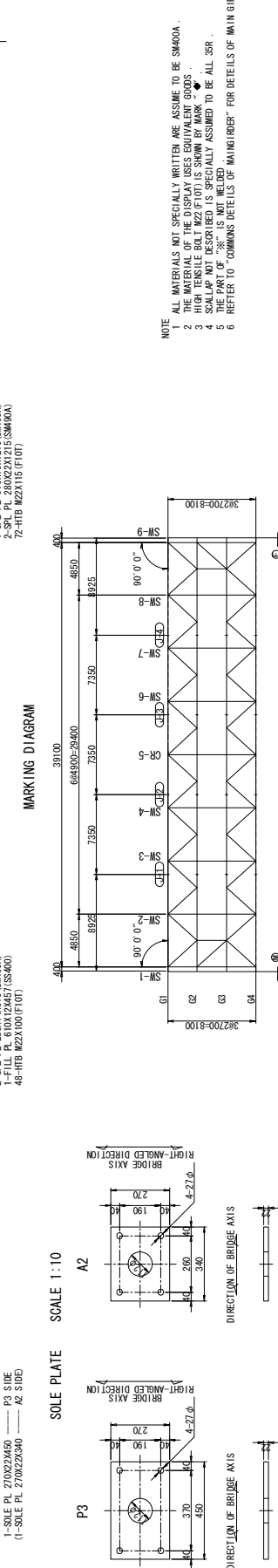
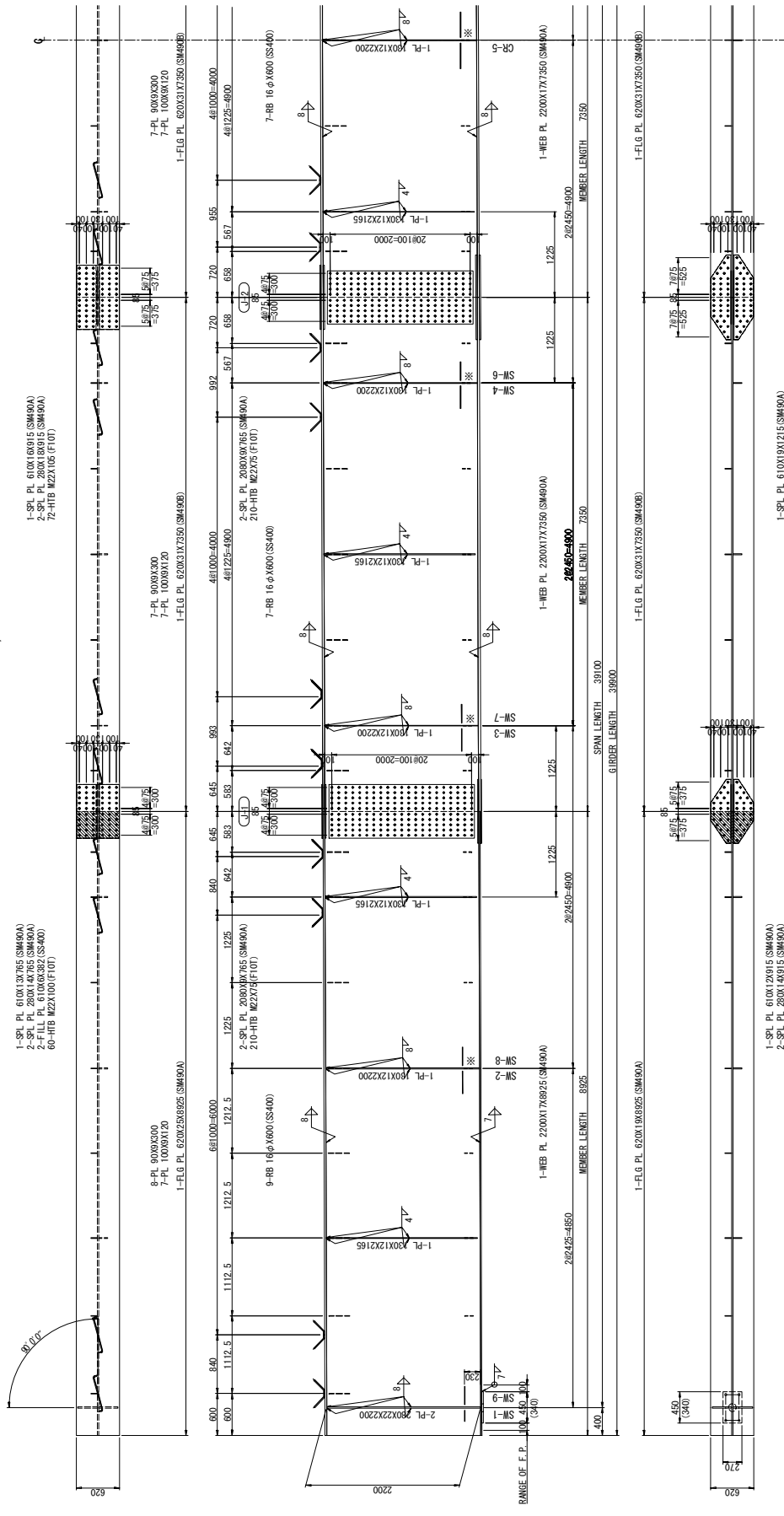


BRIDGE CROSS SECTION SCALE 1:60



<p>AGENCE AUTONOME DES TRAVAUX ROUTIER PEUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI</p>	<p>BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR</p>	<p>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL</p>	<p>TITLE : BAILE BRIDGE STRUCTURE DRAWING OF SUPERSTRUCTURE</p>	<p>SCALE S=1:150</p>	<p>Drawing No. BA-3</p>
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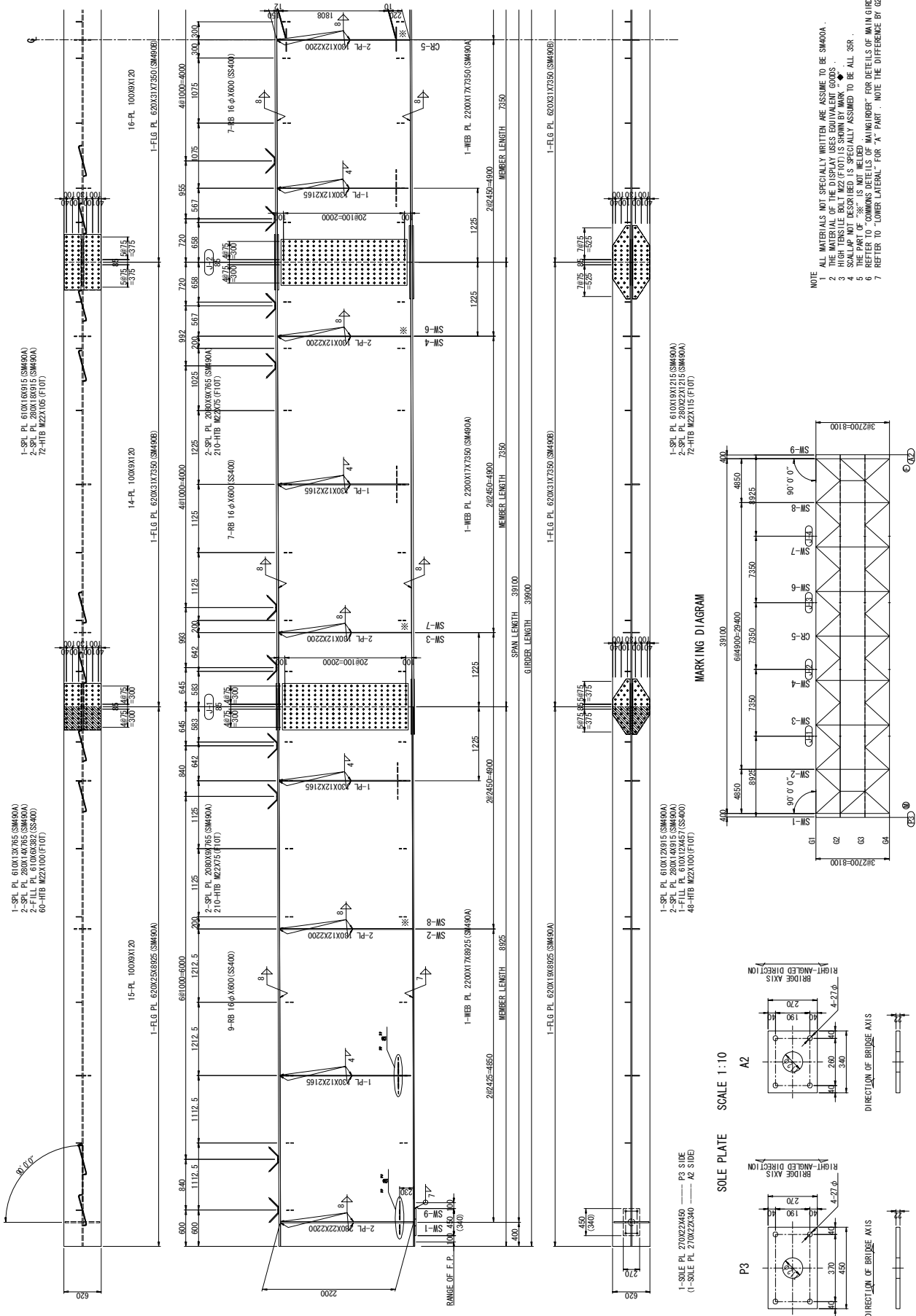
DETAILS OF STEEL MAIN GIRDER G1, G4 SCALE 1:30



- NOTE**
- 1 ALL MATERIALS NOT SPECIALLY WRITTEN ARE ASSUME TO BE SMOOQA .
 - 2 THE MATERIAL OF THE DISPLAY LINES EQUIVALENT GOODS .
 - 3 HIGH TENSILE BOLT M22 (F10T) IS SHOWN BY MARK .
 - 4 ALL DIMENSIONS SPECIALLY ASSUMED TO BE ALL SPS .
 - 5 THE PART OF IS NOT WELDED .
 - 6 REFER TO "COMMAN'S DETAILS OF MAIN IRON" FOR DETAILS OF MAIN GIRDER .

AGENCE AUTONOME DES TRAVAUX ROUTIER REPUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BAILE BRIDGE DETAILS OF STEEL MAIN GIRDER G1,G4	SCALE S=1:30	Drawing No. BA-4
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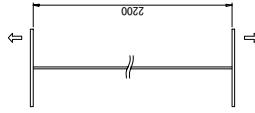
DETAILS OF STEEL MAIN GIRDER G2, G3 SCALE 1:30



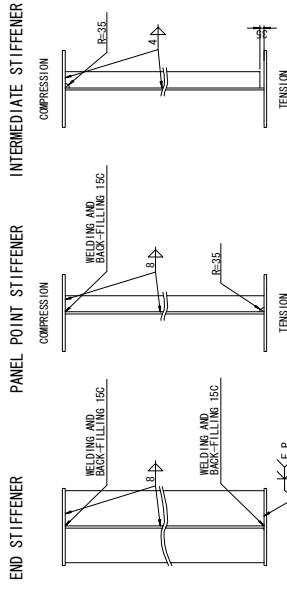
AGENCE AUTONOME DES TRAVAUX ROUTIER REPUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BAILE BRIDGE DETAILS OF STEEL MAIN GIRDER G2,G3	SCALE S=1:30	Drawing No. BA-5
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CAMBER / COMMON DETAILS OF MAIN GIRDER

CHANGING DIRECTION OF FLANGE PLATE

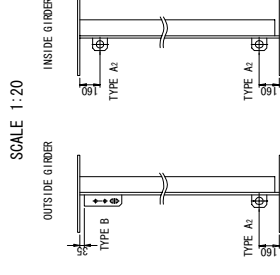


VERTICAL STIFFENER SCALE 1:20

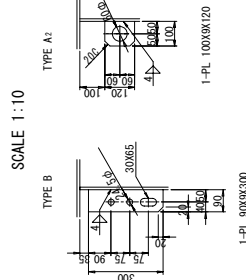


VERTICAL STIFFENER SCALE 1:20

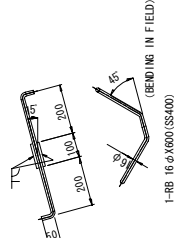
INSTALLING POSITION OF SUSPENDER



DETAILS OF SUSPENDER



SLAB ANCHOR SCALE 1:10

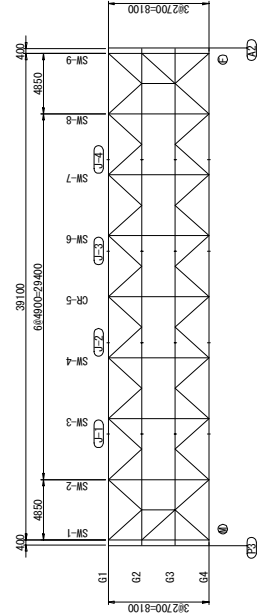


CAMBER

	SW-1	SW-2	SW-3	SW-4	GR-5	SW-6	SW-7	SW-8	SW-9
D1	0.0	7.4	13.4	17.2	18.5	17.2	13.4	7.4	0.0
D2	0.0	15.5	28.0	36.2	39.0	36.2	29.0	15.5	0.0
D3	0.0	5.2	9.3	11.6	12.3	11.6	9.3	5.2	0.0
D4	0.0	2.8	5.2	6.7	7.3	6.7	5.2	2.8	0.0
D1	0.0	30.9	55.9	71.7	77.1	71.7	55.9	30.9	0.0
D2	0.0	14.5	29.2	43.9	58.6	73.3	88.0	102.7	117.3
D3	0.0	7.3	13.3	17.1	18.5	17.1	13.3	7.3	0.0
D4	0.0	3.1	5.5	7.0	7.6	7.0	5.5	3.1	0.0
D1	0.0	29.9	54.5	70.4	76.0	70.4	54.5	29.9	0.0
D2	0.0	14.5	29.2	43.9	58.6	73.3	88.0	102.7	117.3
D3	0.0	7.3	13.3	17.1	18.5	17.1	13.3	7.3	0.0
D4	0.0	3.1	5.5	7.0	7.6	7.0	5.5	3.1	0.0
D1	0.0	29.9	54.5	70.4	76.0	70.4	54.5	29.9	0.0
D2	0.0	14.5	29.2	43.9	58.6	73.3	88.0	102.7	117.3
D3	0.0	7.3	13.3	17.1	18.5	17.1	13.3	7.3	0.0
D4	0.0	3.1	5.5	7.0	7.6	7.0	5.5	3.1	0.0
D1	0.0	29.9	54.5	70.4	76.0	70.4	54.5	29.9	0.0
D2	0.0	14.5	29.2	43.9	58.6	73.3	88.0	102.7	117.3
D3	0.0	7.3	13.3	17.1	18.5	17.1	13.3	7.3	0.0
D4	0.0	3.1	5.5	7.0	7.6	7.0	5.5	3.1	0.0

NOTE
 D1 : DEFLECTION OF STEEL WEIGHT (mm)
 D2 : DEFLECTION OF RC SLAB AND HAUNCH (mm)
 D3 : DEFLECTION OF WHEEL LOAD AND RAILING (mm)
 D4 : DEFLECTION OF PAVEMENT (mm)
 DH : DEFLECTION OF ALL DEAD LOAD (mm)
 DH : DEFLECTION OF LONGITUDINAL SLOPE (mm)

MARKING DIAGRAM

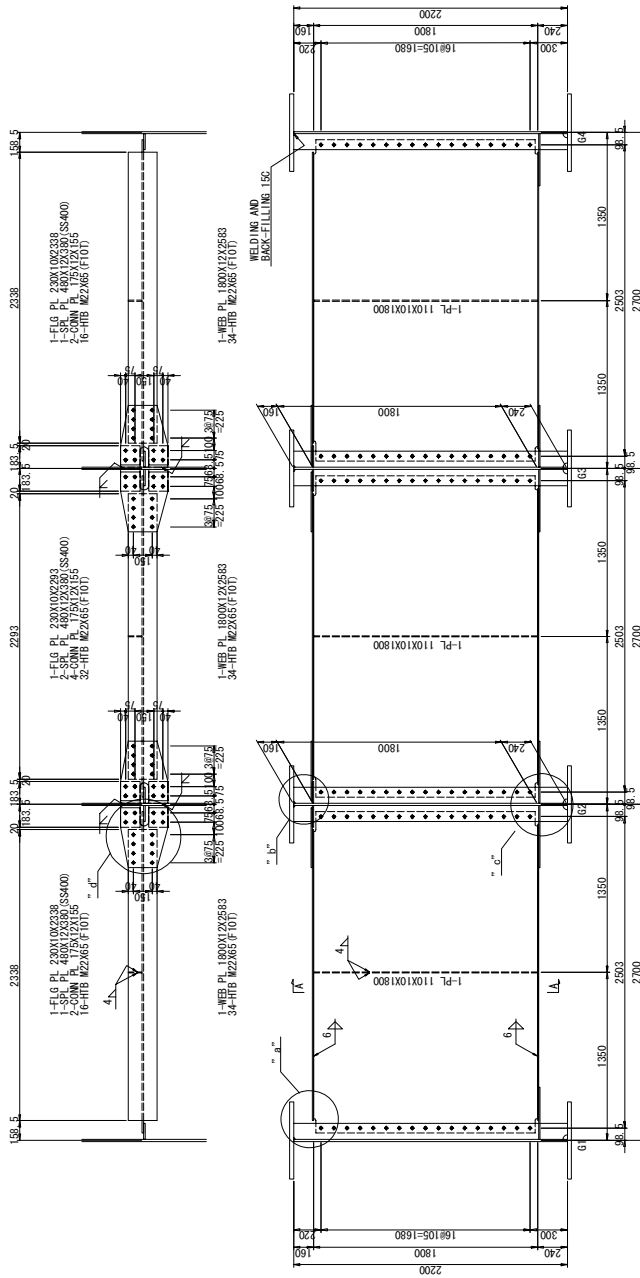


NOTE
 1 ALL MATERIALS NOT SPECIALLY WRITTEN ARE ASSUME TO BE SM400A .
 2 THE MATERIAL OF THE DISPLAY USES EQUIVALENT GOODS .
 3 HIGH TENSILE BOLT M22 (F10T) IS SHOWN BY MARK .
 4 SCALLAP NOT DESCRIBED IS SPECIALLY ASSUMED TO BE ALL SFR .

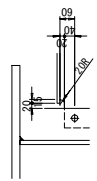
AGENCE AUTONOME DES TRAVAUX ROUTIER REPUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BAILE BRIDGE CAMBER / COMMON DETAILS OF MAIN GIRDER	SCALE ILLUSTRATION	Drawing No. BA-6
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CROSS BEAM FOR LOAD DISTRIBUTION SCALE 1:20

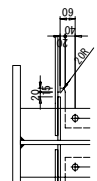
OR-5



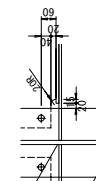
DETAIL "a" SCALE 1:10



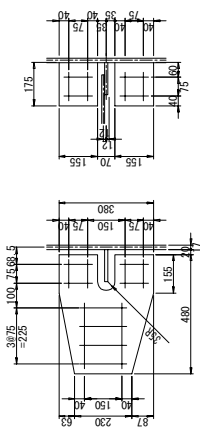
DETAIL "b" SCALE 1:10



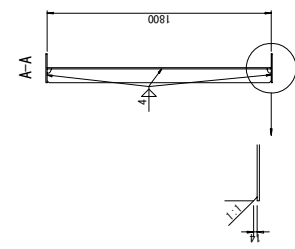
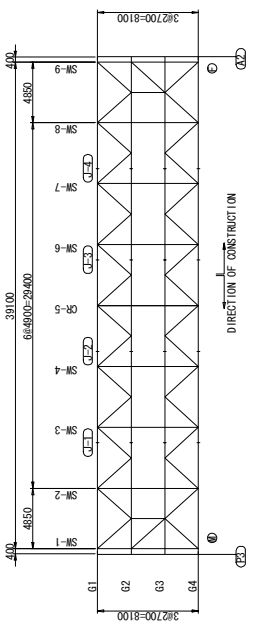
DETAIL "c" SCALE 1:10



DETAIL "d" SCALE 1:10



MARKING DIAGRAM

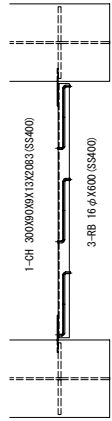


NOTE
 1 ALL MATERIALS NOT SPECIALLY WRITTEN ARE ASSUME TO BE S.M.A.O.A.
 2 THE MATERIAL OF THE DISPLAY USES EQUIVALENT GOODS.
 3 HIGH TENSILE BOLT M22 (F10T) IS SHOWN BY MARK.
 4 SLOLAP NOT DESCRIBED IS SPECIALLY ASSUMED TO BE ALL 50%.

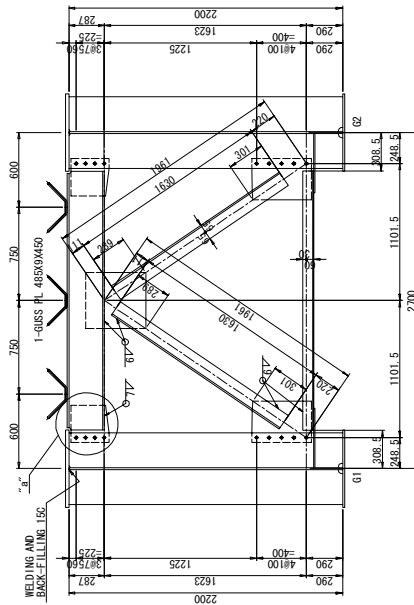
AGENCE AUTONOME DES TRAVAUX ROUTIER REPUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BAILE BRIDGE CROSS BEAM FOR LOAD DISTRIBUTION	SCALE S=1:20	Drawing No. BA-7
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SWAY BRACING SCALE 1:20

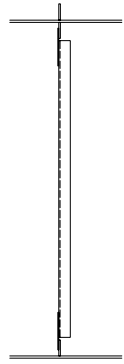
END SWAY BRACING SW-1, 9
(QUANTITY : 6)



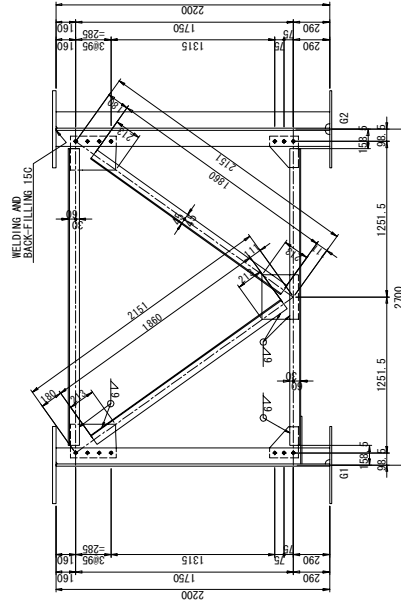
- 1-GUSS PL. 305X9X300
- 4-HTB M22X75 (F10T)



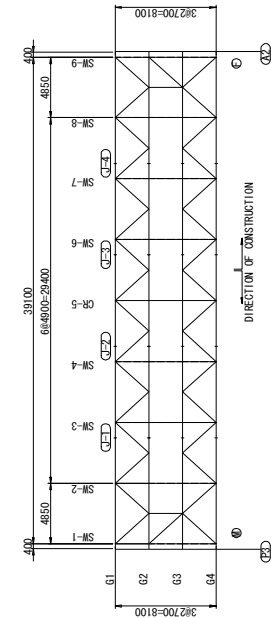
INTERMEDIATE SWAY BRACING SW-2, 3, 4, 6, 7, 8
(QUANTITY : 18)



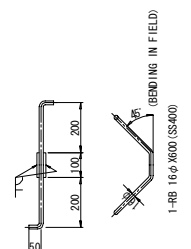
- 1-L 900X110X2383
- 1-GUSS PL. 305X9X270
- 4-HTB M22X65 (F10T)



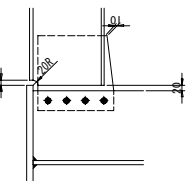
NOTE
1 ALL MATERIALS NOT SPECIALLY WRITTEN ARE ASSUME TO BE SM400A .
2 THE MATERIAL OF THE DISPLAY USES EQUIVALENT GOODS .
3 HIGH TENSILE BOLT M22 (F10T) IS SHOWN BY MARK .
4 LAPLAP NOT DESCRIBED IS SPECIALLY ASSUMED TO BE ALL 50% .



SLAB ANCHOR SCALE 1:10

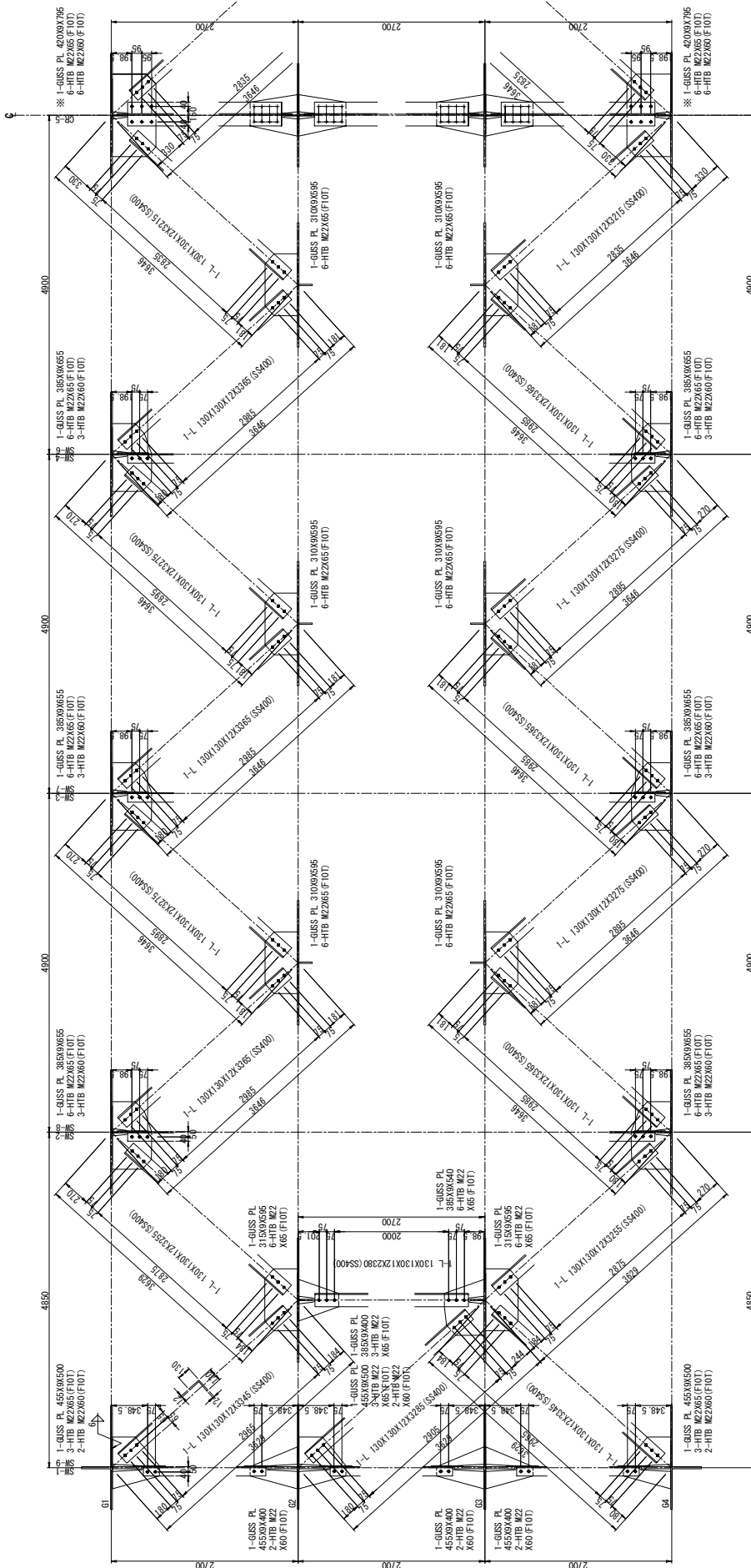


DETAIL "a" SCALE 1:10

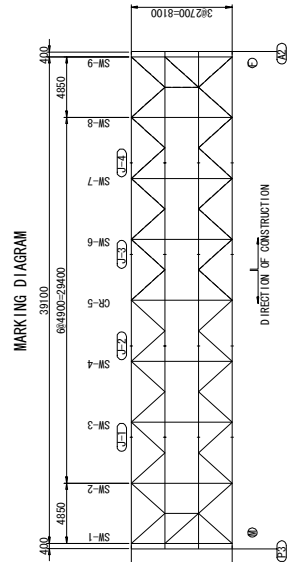


AGENCE AUTONOME DES TRAVAUX ROUTIER REPUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BAILE BRIDGE SWAY BRACING	SCALE S=1:20	Drawing No. BA-8
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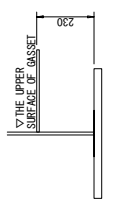
LOWER LATERAL SCALE 1:20, 1:30



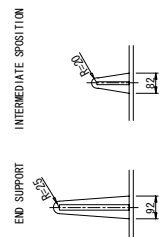
NOTE
 1 ALL MATERIALS NOT SPECIALLY WRITTEN ARE ASSUME TO BE SMA400.
 2 THE MATERIAL OF THE DISPLAY USES EQUIVALENT GOODS.
 3 HIGH TENSILE BOLT M22 (F10T) IS SHOWN BY MARK \bullet .
 4 ALL MATERIALS WHICH MARKED \bullet ARE ASSUME TO BE S50.
 5 MATERIALS WHICH MARKED \times ARE GUSSET OF CROSS BEAM AND WERE TOLLAYED BY SMALL SIZE MATERIAL SPLINTER.



POSITION OF GASSET SCALE 1:10

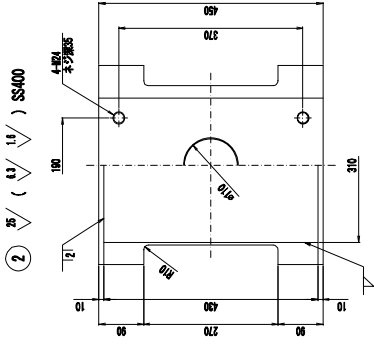
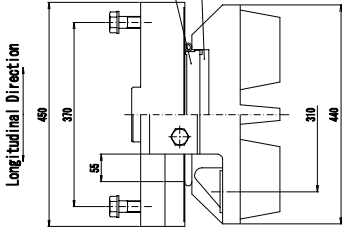
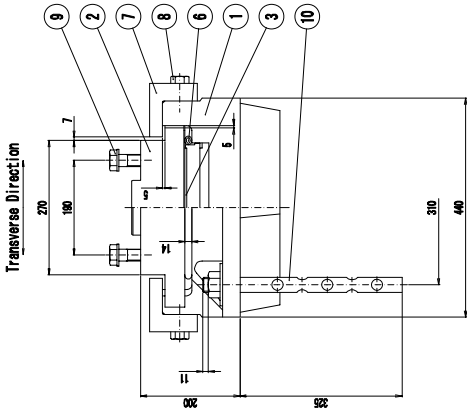


SCALLOP SCALE 1:10



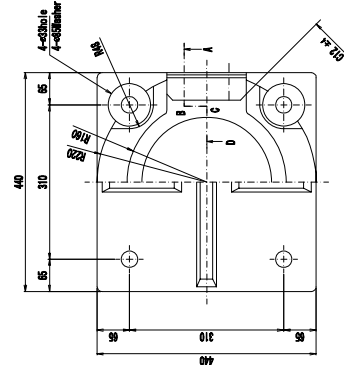
AGENCE AUTONOME DES TRAVAUX ROUTIER PEUPULIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BAILE BRIDGE LOWER LATERAL	SCALE S=1:20,1:30	Drawing No. BA-9
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SHUT-UP RUBBER BEARING PLATE SHOE (MOV.) SCALE 1:10



① ∇ (∇ 12 / ∇) SCH400H

② ∇ (∇ 25 / ∇) SS400



③ ∇ PTFE

④ ∇ (∇ 25 / ∇) SS400

⑤ ∇ Chloroprene Rubber (with compressible Ring)

⑥ ∇ Chloroprene Rubber

⑦ Hexagon Bolt (Medium Grade) M22 x 60 4.6

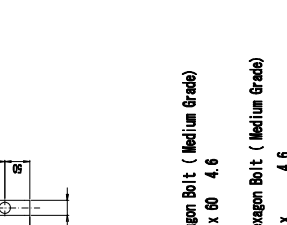
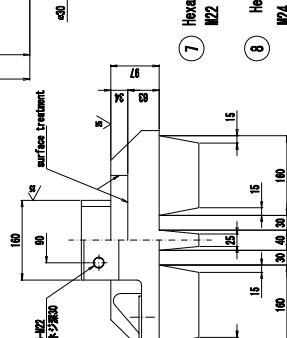
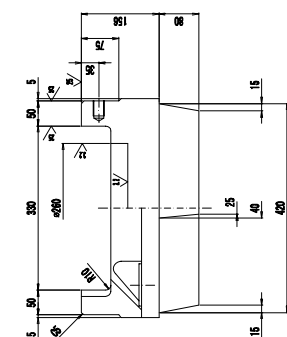
⑧ Hexagon Bolt (Medium Grade) M24 x 4.6

⑨ Plain Washer 24x44x4.5 -10H

Design Condition		Reaction Force	
Total Reaction	R	1096 kN	
Reaction due to Dead Load	Rd	630 kN	
Longitudinal Horizontal Force (Earthquake)	Rlx	95 kN	
Transverse Horizontal Force (Earthquake)	Rly	95 kN	
Lift-off Force (Earthquake)	V	63 kN	
Displacement			
Design Displacement	δ_d	50 mm	
Total Displacement	e	110 mm	
Friction Coefficient			
Beam Friction Coefficient	f	0.10	
Allowable Bearing Stress			
Allowable Bearing Stress of Substructure	C/m	8 N/mm ²	
Allowable Bearing Stress of Superstructure	C/m	2.0 N/mm ²	

Material List

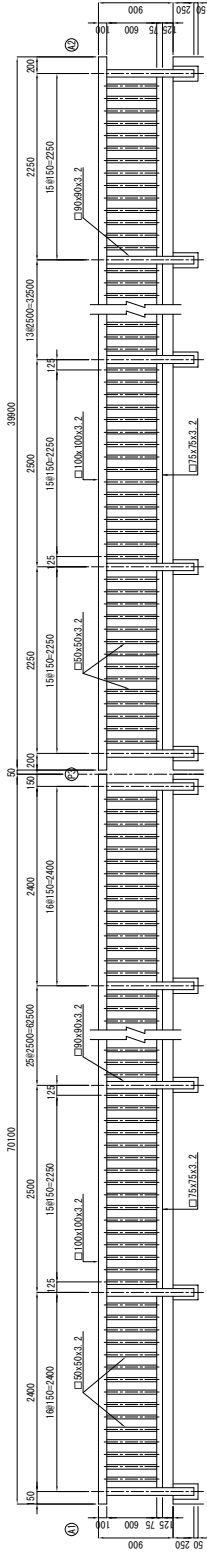
NO.	Item	Grade	EA	Weight(kg)	Remarks
1	Lower Shoe	SCH400H	1	118.7	
2	Upper Shoe	SS400	1	94.9	
3	Sliding Plate	PTFE	1	0.4	
4	Intermediate Plate	SS400	1	18.6	
5	Rubber Bearing Plate	Chloroprene Rubber	1	1.2	with compressible ring
6	Seal Ring	Chloroprene Rubber	1	0.1	
7	Side Flank	SS400	2	12.4	
8	Hexagon Head Bolt		4	1.0	as in use
9	Hexagon Head Bolt - Washer		4	1.4	4H 8 100 JIS B 125
10	Anchor Bolt - Nut	SS400	4	9.8	M22 x 60
11	Stainless Plate	SUS316	1	2.1	washer
Total Weight				232.6 (kg)	
Rust-Proof Surface Treatment					
Not dipped galvanizing Adhesion Qty 500g/m ² , Adhesion Qty 350g/m ² (Bolt)					



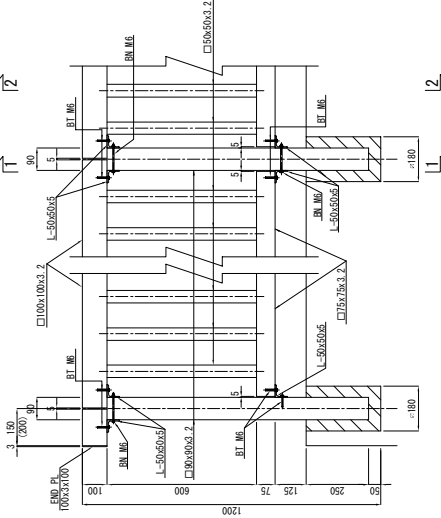
AGENCE AUTONOME DES TRAVAUX ROUTIER PEPUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BAILE BRIDGE SHUT-UP RUBBER BEARING PLATE SHOE (MOV.)	SCALE S=1:10	Drawing No. BA-11
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DETAILS OF RAILING AND DRAINAGE

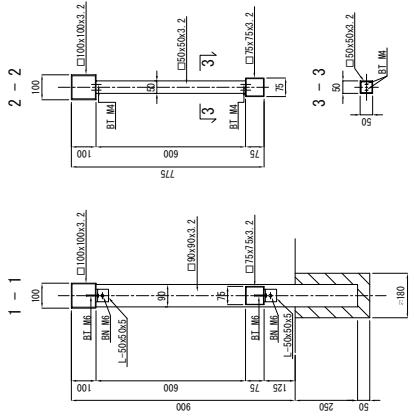
ELEVATION SCALE 1:30



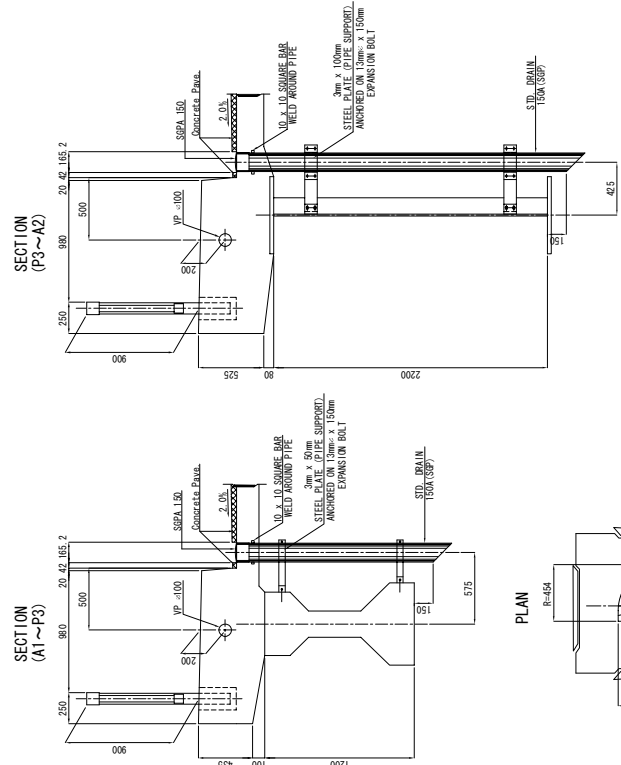
DETAILS SCALE 1:10



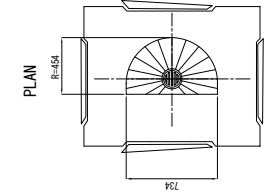
SECTION SCALE 1:10



DRAINAGE SCALE 1:20

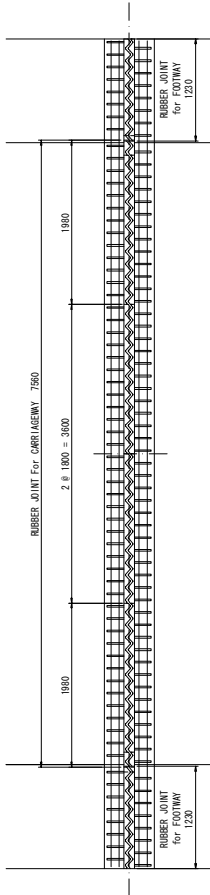


- 4 - $\square 100 \times 100 \times 3.2 \times 148$
- 4 - $\square 100 \times 100 \times 3.2 \times 198$
- 4 - $\square 100 \times 100 \times 3.2 \times 2395$
- 4 - $\square 100 \times 100 \times 3.2 \times 2245$
- 80 - $\square 100 \times 100 \times 3.2 \times 2495$
- 4 - $\square 75 \times 75 \times 3.2 \times 2300$
- 4 - $\square 75 \times 75 \times 3.2 \times 2150$
- 80 - $\square 75 \times 75 \times 3.2 \times 2400$
- 92 - $\square 90 \times 90 \times 3.2 \times 1050$
- 1396 - $\square 50 \times 50 \times 3.2 \times 600$
- 364 - $L-50 \times 50 \times 5 \times 50$
- 8 - END PL 100.3x100
- 180 - BN M6
- 368 - BT M6
- 5584 - BT M4



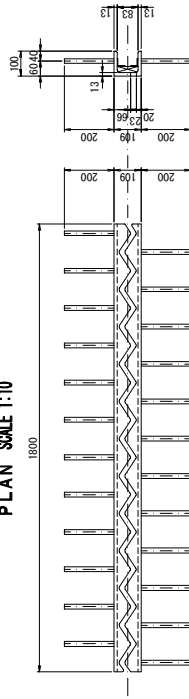
AGENCE AUTONOME DES TRAVAUX ROUTIER REPUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BAILE BRIDGE DETAILS OF RAILING AND DRAINAGE	SCALE S=1:10	Drawing No. BA-12
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DETAILS OF EXPANSION JOINT SCALE 1:30

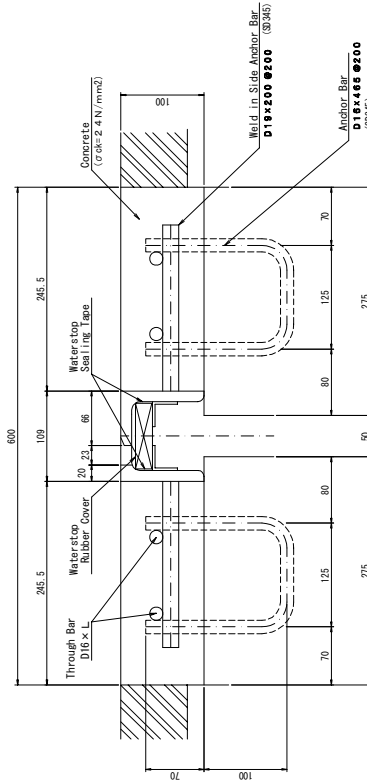
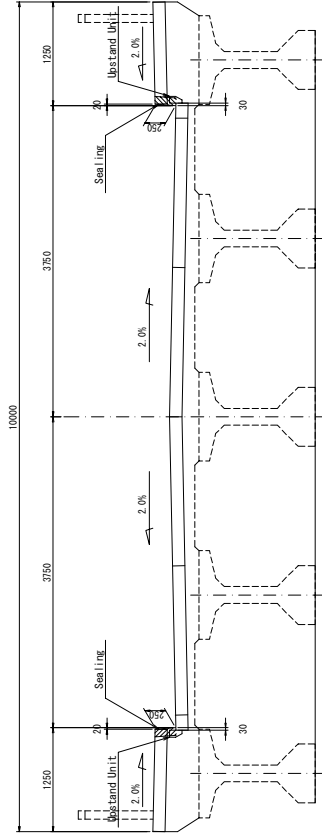


MATERIAL of EXPANSION JOINT (1 set / 10m)					
No.	Material	Material Grade	Unit	Quantity	Remarks
1	RUBBER JOINT for CARRIAGEWAY	SS400	m	7.56	KMS II - 3.5
2	RUBBER JOINT for FOOTWAY	SS400	m	2.46	KMS II - 3.5
3	UPSTAND UNIT for CARRIAGEWAY	SS400	Set	2.00	
4	CONCRETE	$\sigma_{ck} = 24 \text{ N/mm}^2$	m ³	0.49	
5	Through bar for CARRIAGEWAY	SD345	kg	49.92	D16x4, 0m x 8-headers
6	Through Bar for CARRIAGEWAY	SD345	kg	14.35	D16x1, 1.5m x 8-headers
7	Sealing	Silicon	m	0.50	
8	Anchor Bar	SD345	kg	72.54	D16x465x100-headers

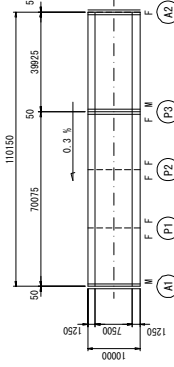
PLAN SCALE 1:10



CROSS SECTION SCALE 1:3



MARKING DIAGRAM



AGENCE AUTONOME DES TRAVAUX ROUTIER
REPUBLIQUE DU SENEGAL
MINISTERE DE LEQUIPEMENT ET DES
TRANSPORTS REPUBLIQUE DU MALI

BASIC DESIGN STUDY
ON THE PROJECT FOR BRIDGE
CONSTRUCTION OF
DAKAR-BAMAKO SOUTH CORRIDOR

JAPAN INTERNATIONAL COOPERATION AGENCY
KATAHIRA & ENGINEERS INTERNATIONAL

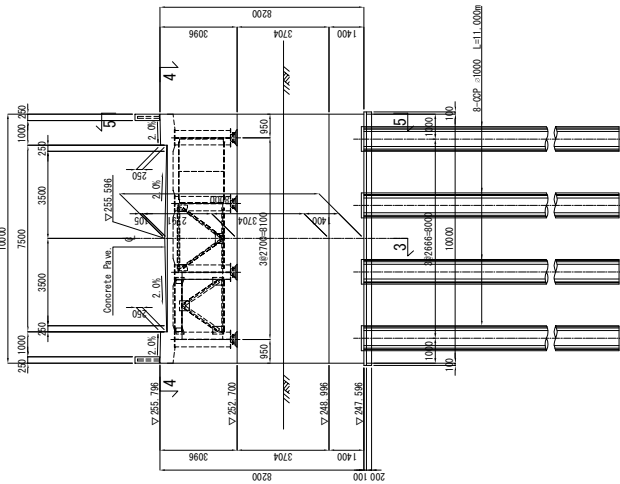
TITLE : BAILE BRIDGE
DETAILS OF EXPANSION JOINT

SCALE
S=1:30

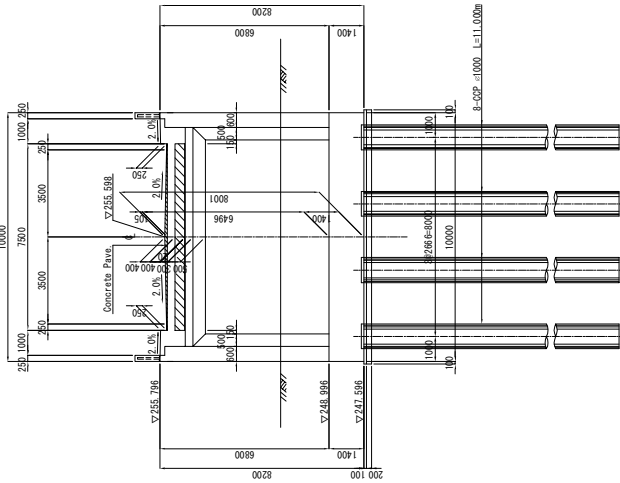
Drawing No.
BA-13

STRUCTURE DRAWING OF A2 ABUTMENT SCALE 1:100

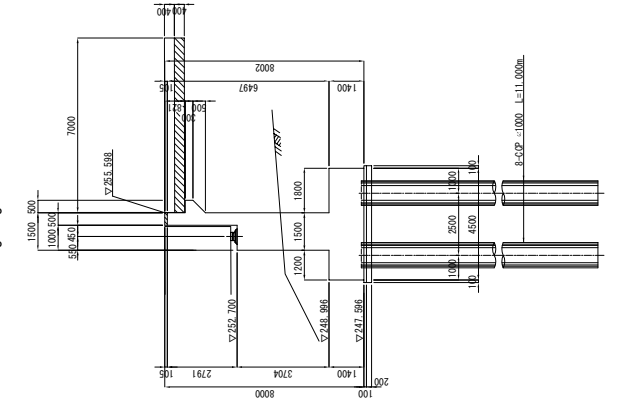
1 - 1



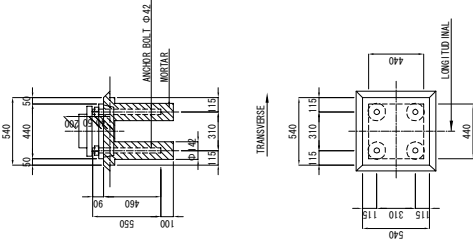
2 - 2



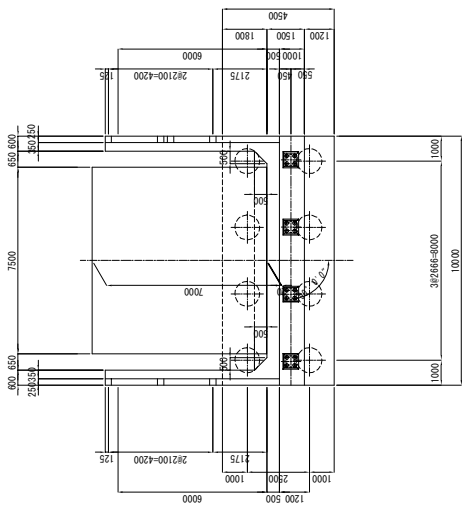
3 - 3



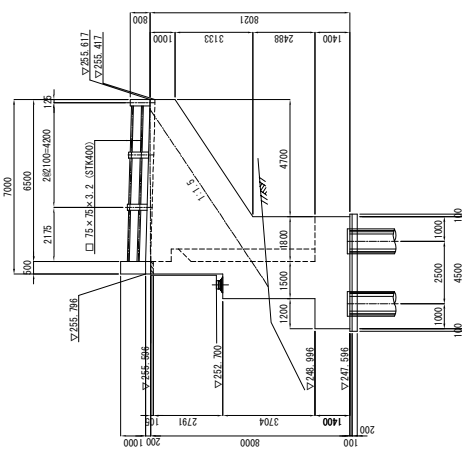
DETAILS SCALE 1:20



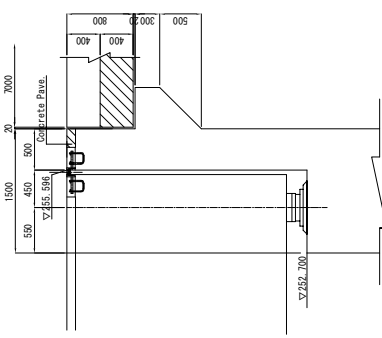
4 - 4



5 - 5



DETAILS SCALE 1:30



<p>AGENCE AUTONOME DES TRAVAUX ROUTIER REPUBLIQUE DU SENEGAL MINISTRE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI</p>	<p>BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR</p>	<p>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL</p>	<p>TITLE : BAILE BRIDGE STRUCTURE DRAWING OF A2 ABUTMENT</p>	<p>SCALE S=1:100</p>	<p>Drawing No. BA-15</p>
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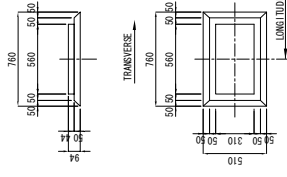
STRUCTURE DRAWING OF P1, P2 PILE BENT PIER SCALE 1:100

2 - 2
 (1) (2)

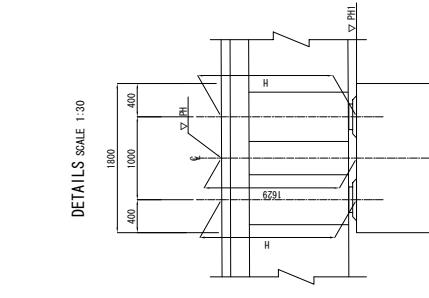
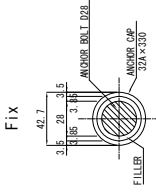
DETAILS SCALE 1:30

DIMENSION LIST							
PIER MARK	PH	PH1	PH2	L	L1	L2	
(1)	255.337	253.208	252.208	10000	4000	15000	
(2)	255.407	253.278	252.278	10000	7000	12000	

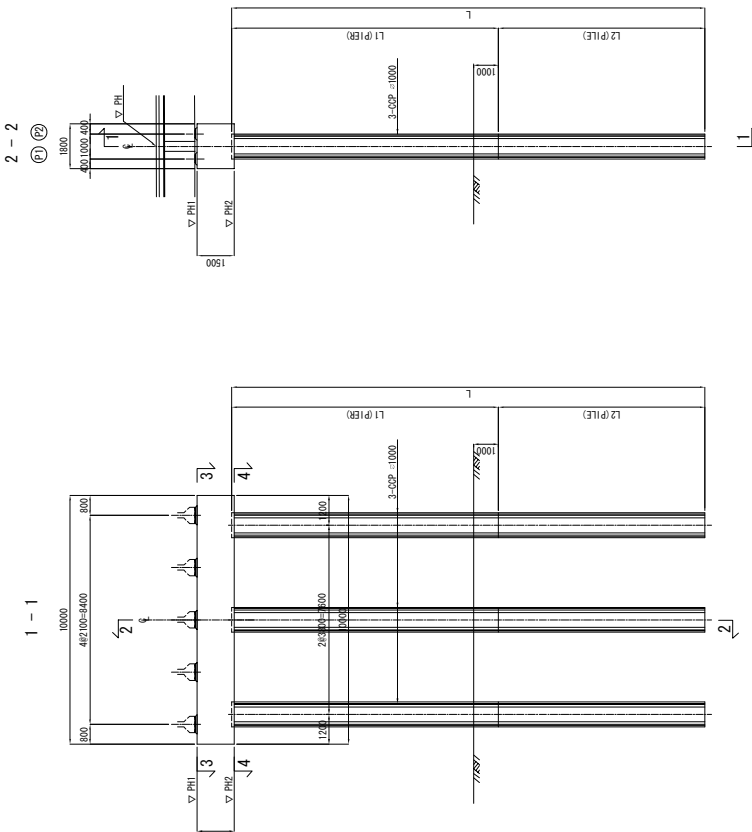
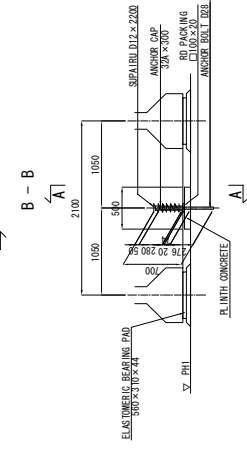
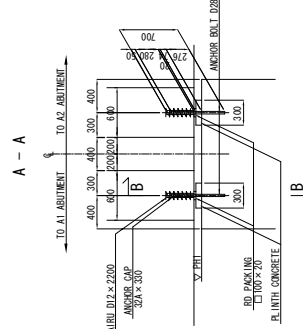
DETAILS SCALE 1:20



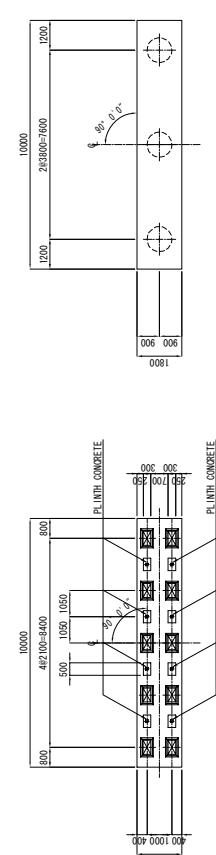
ANCHOR CAP SCALE 1:2



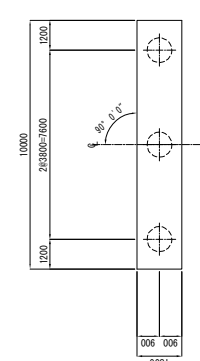
ANCHOR BOLT SCALE 1:30



3 - 3

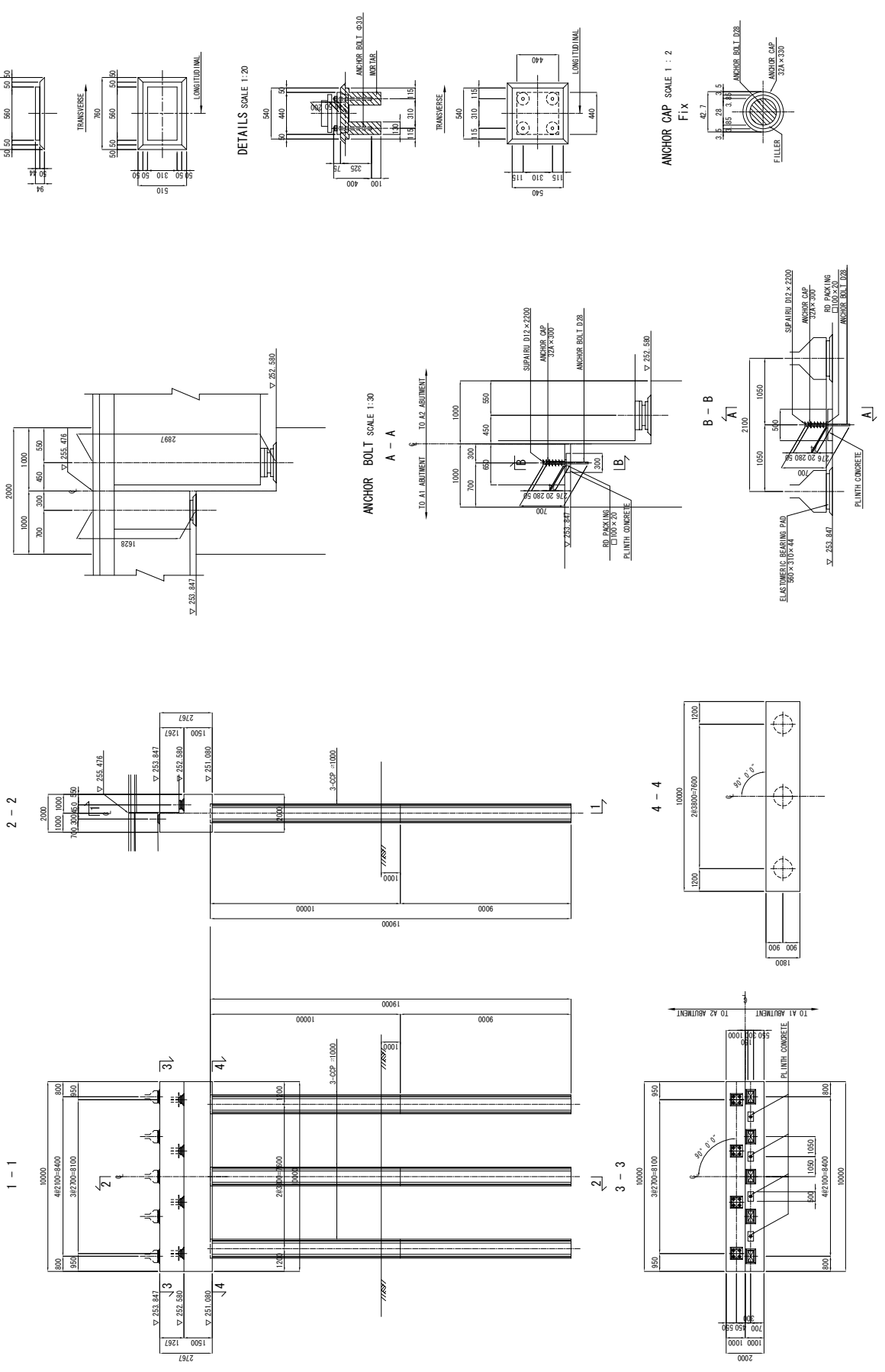


4 - 4

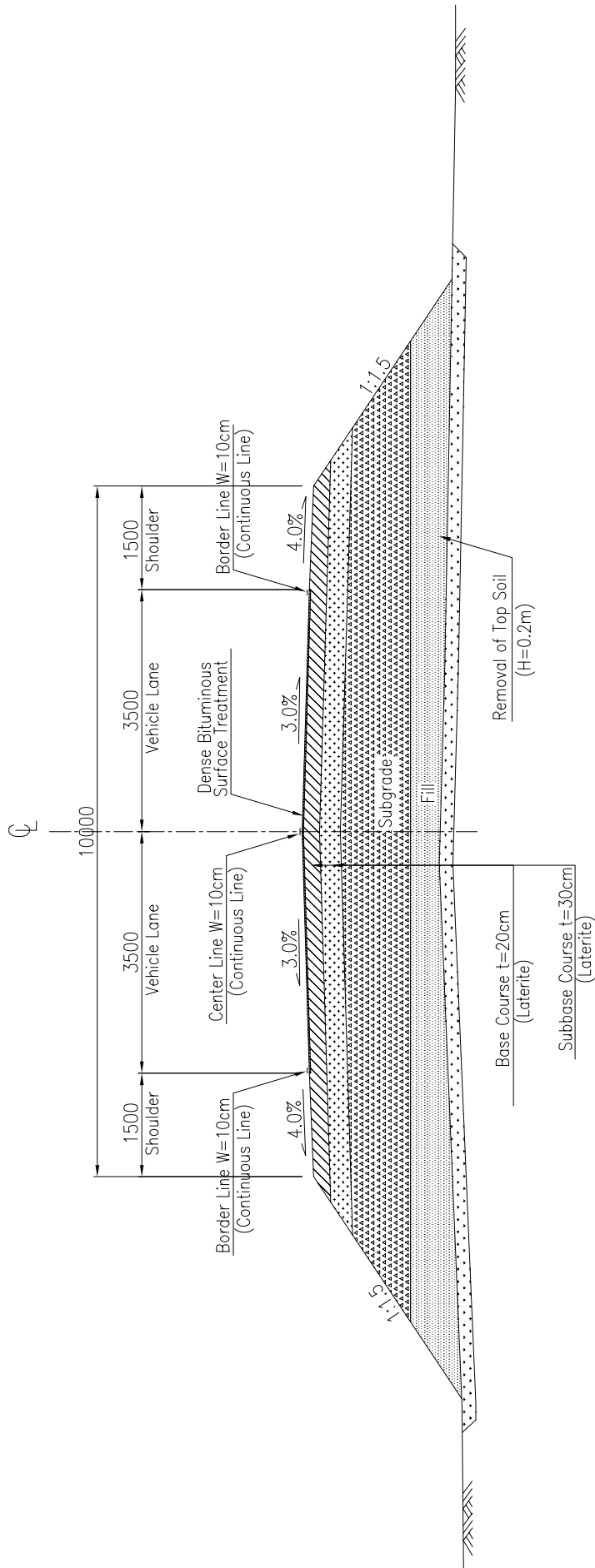


AGENCE AUTONOME DES TRAVAUX ROUTIER PEUPULIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BAILE BRIDGE STRUCTURE DRAWING OF P1,P2 PILE BENT PIER	SCALE S=1:100	Drawing No. BA-16
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STRUCTURE DRAWING OF P3 PILE BENT PIER SCALE 1 : 100

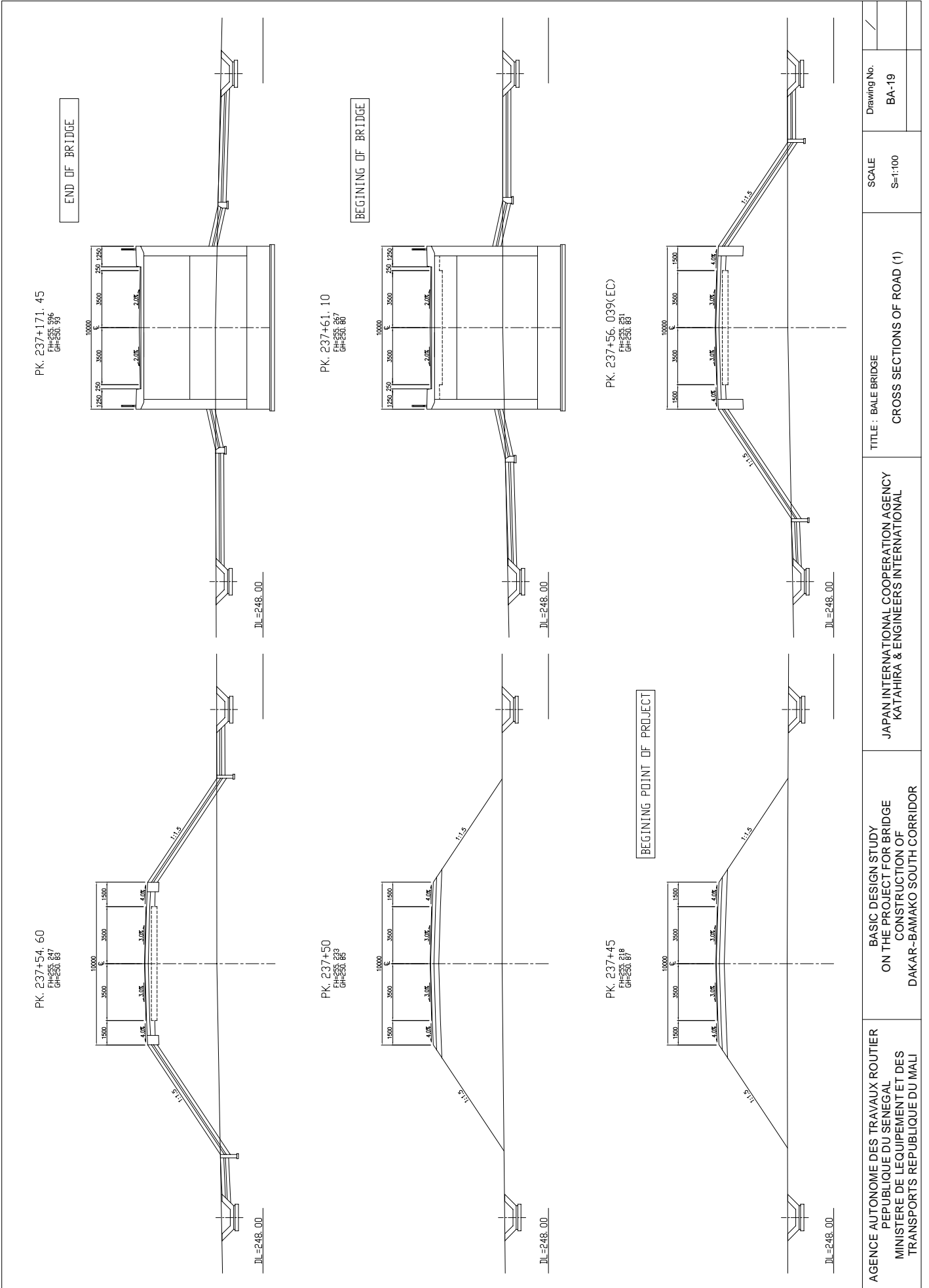


<p>AGENCE AUTONOME DES TRAVAUX ROUTIER REPUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI</p>	<p>BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR</p>	<p>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL</p>	<p>TITLE : BAILE BRIDGE STRUCTURE DRAWING OF P3 PILE BENT PIER</p>
			<p>SCALE S=1:100</p>
			<p>Drawing No. BA-17</p>



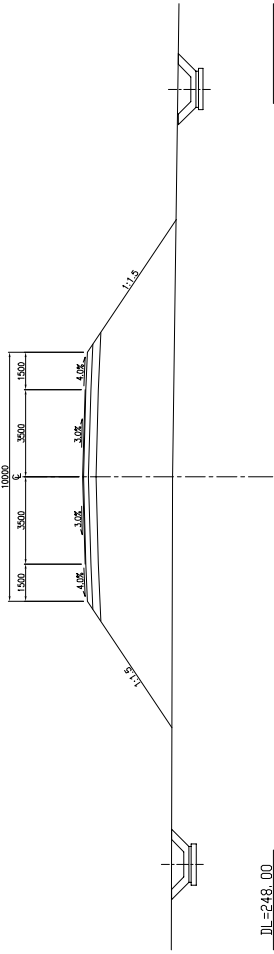
EARTH SECTION

AGENCE AUTONOME DES TRAVAUX ROUTIER REPUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BAILE BRIDGE TYPICAL CROSS SECTION OF ROAD	SCALE S=1:30	Drawing No. BA-18
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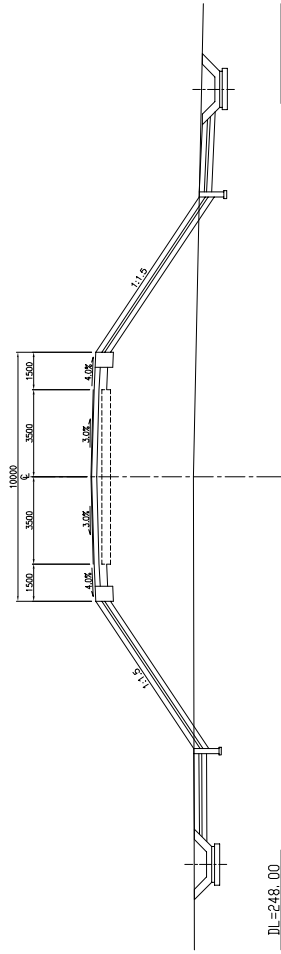


PK. 237+185
 FH=855.636
 GH=852.05

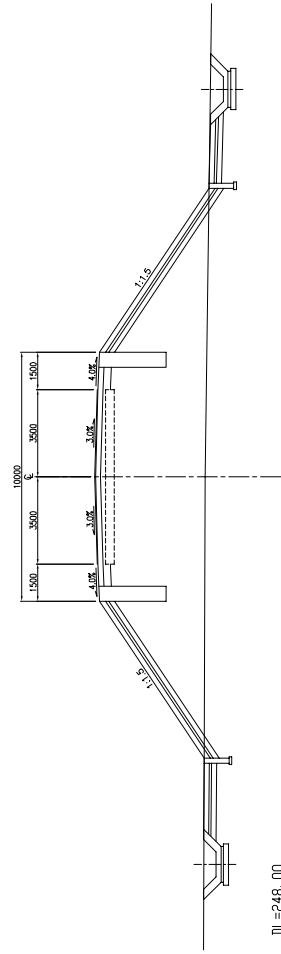
END POINT OF PROJECT



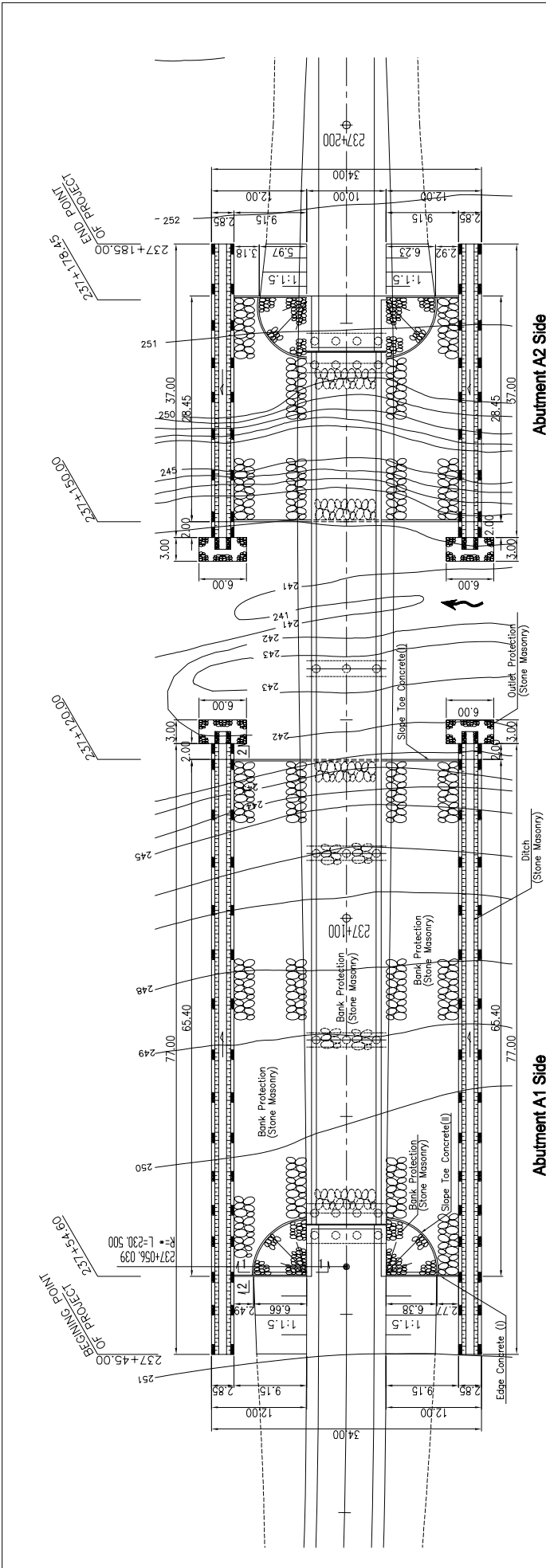
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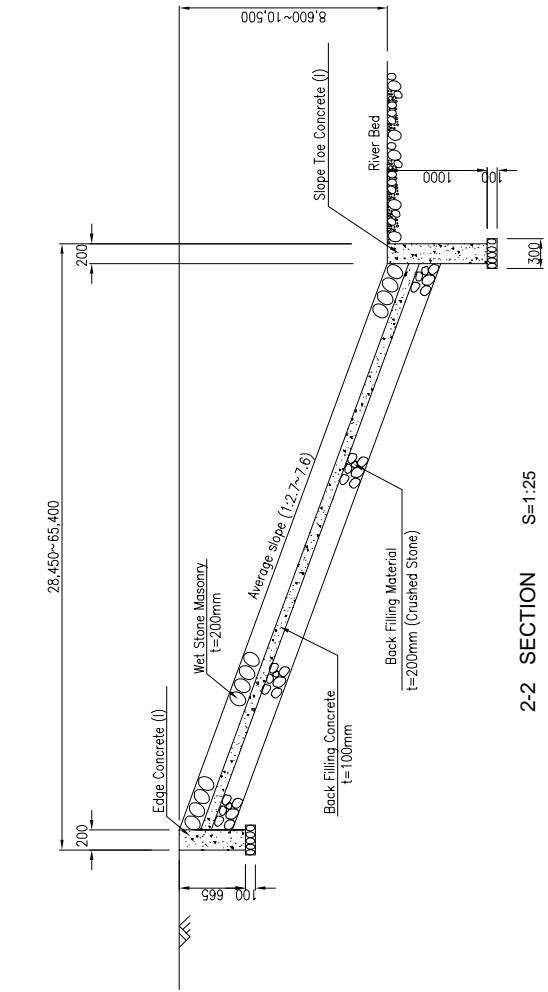
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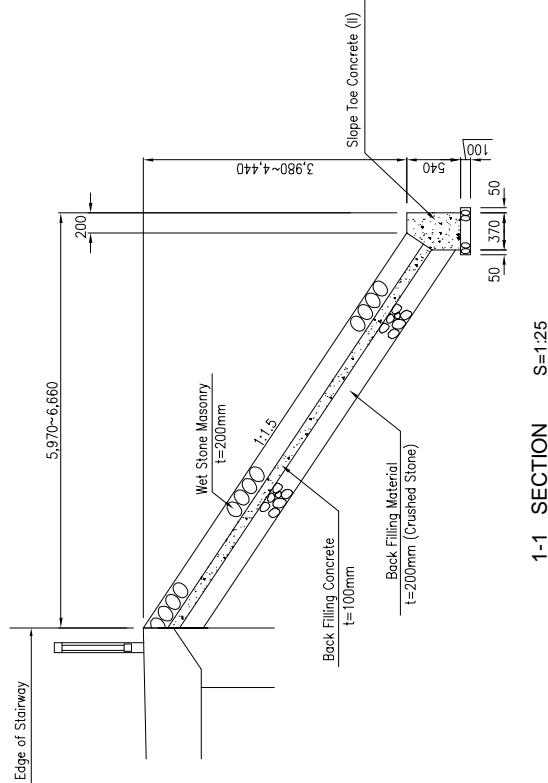
AGENCE AUTONOME DES TRAVAUX ROUTIER REPUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BAILE BRIDGE CROSS SECTIONS OF ROAD (2)	SCALE S=1:100	Drawing No. BA-20
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PLAN S=1:250

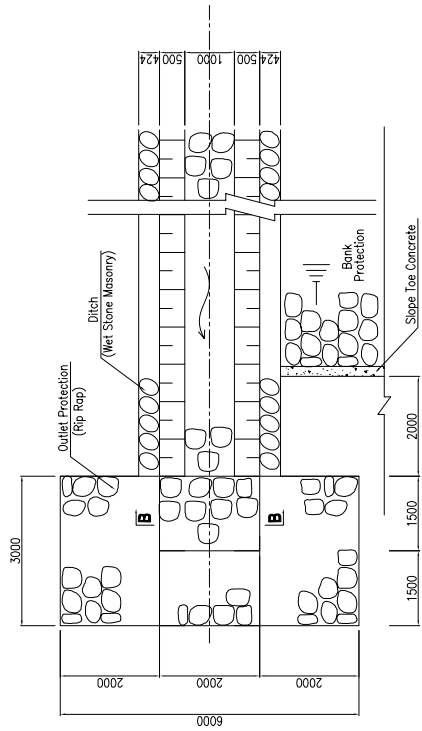


2-2 SECTION S=1:25

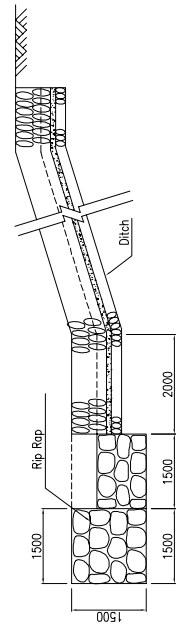


1-1 SECTION S=1:25

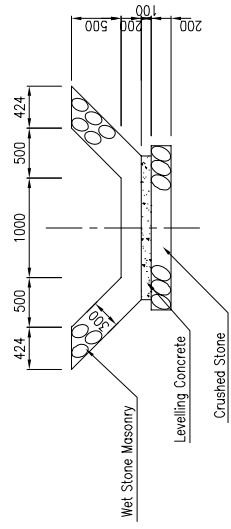
<p>AGENCE AUTONOME DES TRAVAUX ROUTIER PEPUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI</p>	<p>BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR</p>	<p>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL</p>	<p>TITLE : BAILE BRIDGE DETAIL OF BANK PROTECTION</p>	<p>SCALE As Mentioned</p> <p>Drawing No. BA-21</p>
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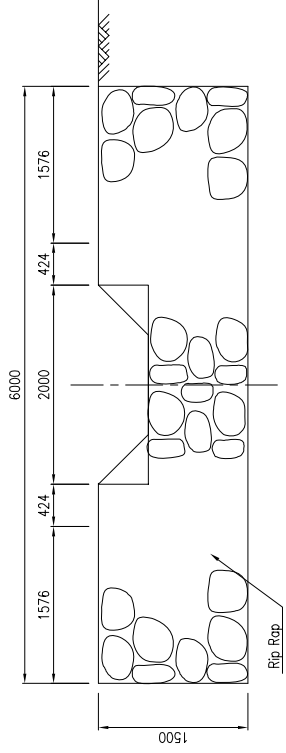
PLAN OF DITCH AND OUTLET PROTECTION S=1:50



SIDE VIEW OF DITCH AND OUTLET PROTECTION S=1:50

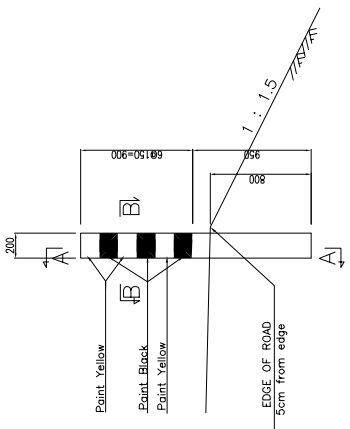


Ditch(Wet Stone Masonry) S=1:25

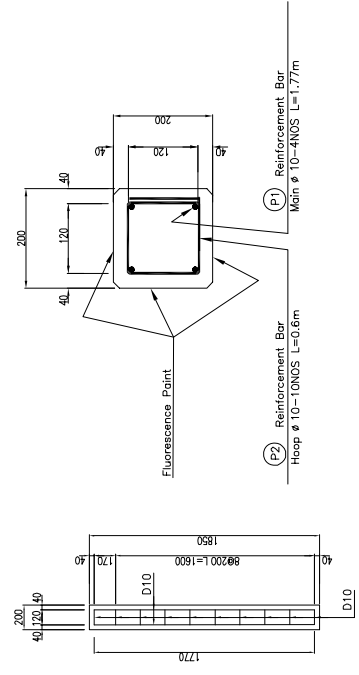


SECTION B - B S=1:25

<p>AGENCE AUTONOME DES TRAVAUX ROUTIER PEUPLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI</p>	<p>BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR</p>	<p>JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL</p>	<p>TITLE : BAILE BRIDGE DETAIL OF DITCH</p>	<p>SCALE As Mentioned</p>	<p>Drawing No. BA-22</p>
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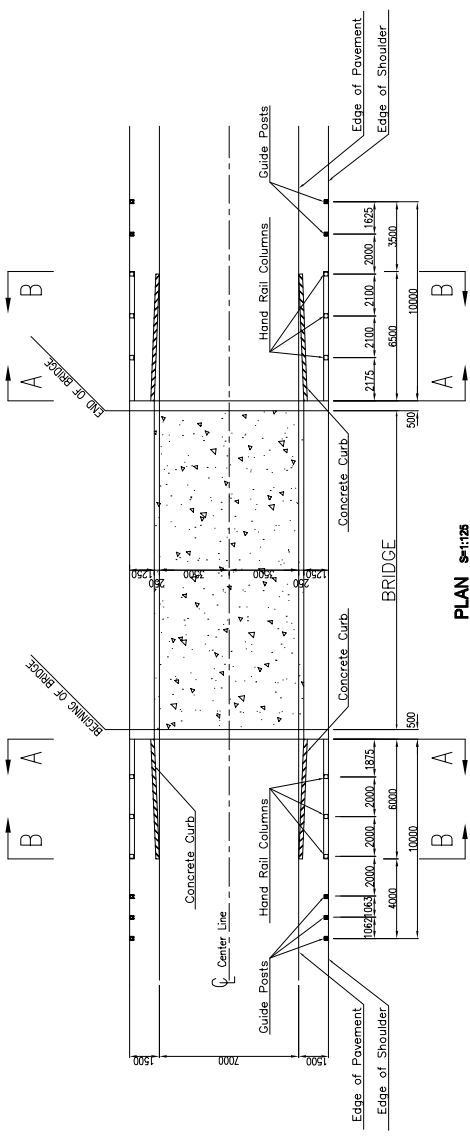
GUIDE POST Scale 1:20



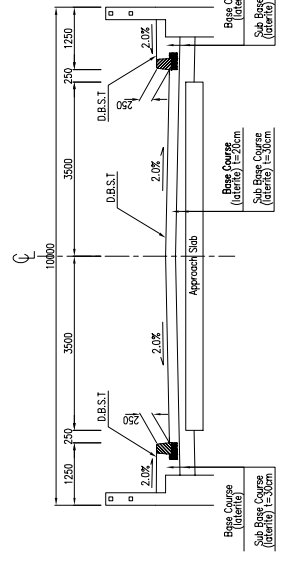
DETAIL A-A Scale 1:20

DETAIL B-B Scale 1:5

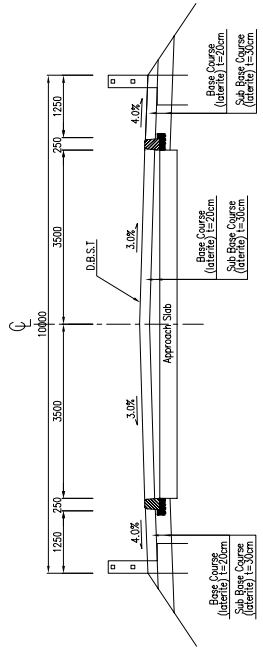
MARK	DIA-METER	LENGTH	NO.	WEIGHT /m	WEIGHT /ONE	REMARKS
		mm		kg/m	kg	
P ₁	D10	1770	4	0.616	1.090	4.4
P ₂	"	600	10	"	0.370	3.7
					8.1	kg



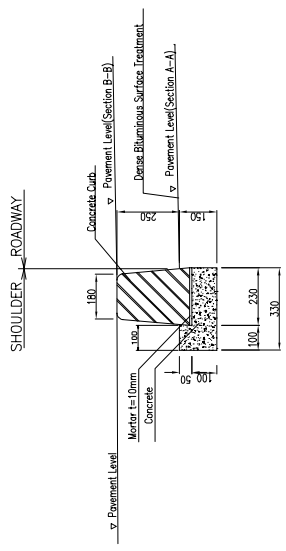
PLAN S=1:25



SECTION A-A S=1:50



SECTION B-B S=1:50



CROSS SECTION OF CONCRETE CURB S=1:10

AGENCE AUTONOME DES TRAVAUX ROUTIER REPUBLIQUE DU SENEGAL MINISTERE DE LEQUIPEMENT ET DES TRANSPORTS REPUBLIQUE DU MALI	BASIC DESIGN STUDY ON THE PROJECT FOR BRIDGE CONSTRUCTION OF DAKAR-BAMAKO SOUTH CORRIDOR	JAPAN INTERNATIONAL COOPERATION AGENCY KATAHIRA & ENGINEERS INTERNATIONAL	TITLE : BAILE BRIDGE DETAILS OF RUN OFF CONCRETE CUM AND GUIDEPOST	SCALE As Shown	Drawing No. BA-23
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