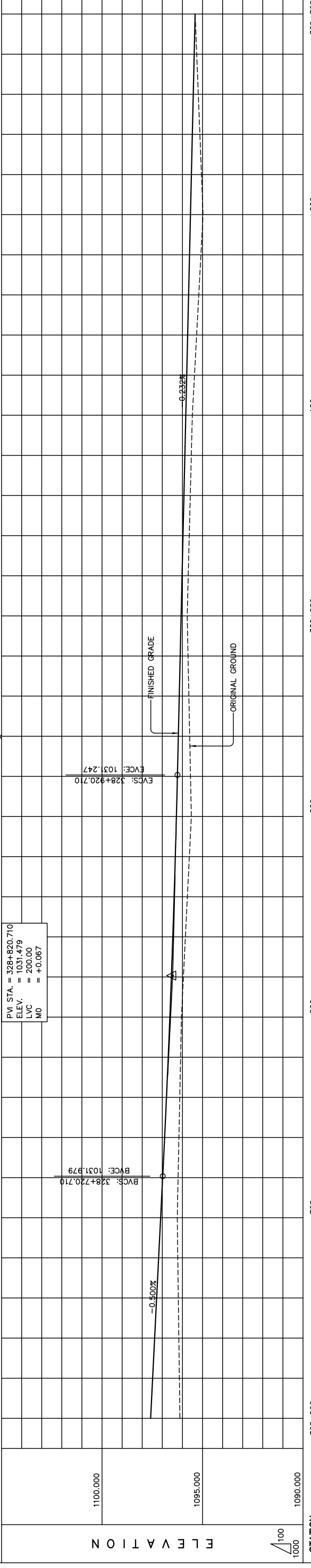
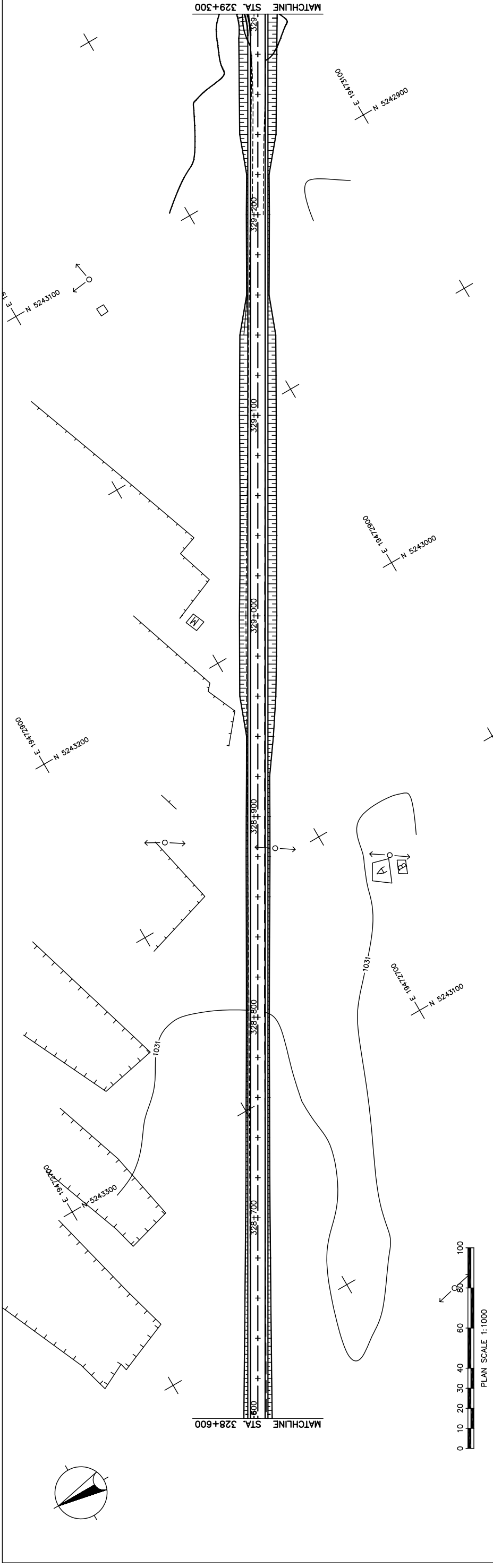


Figure 2-2-3-89 Plan and Profile (Section VI Sta.327+900-328+600)



STATION	FINISHED GRADE	ORIGINAL GROUND	HORIZONTAL CURVATURE	VERTICAL CURVATURE	SUPERELEVATION
328+600	1032.583	1031.124			
	1031.151	1032.483			
	1031.177	1032.383			
	1031.204	1032.283			
	1031.230	1032.183			
	1031.257	1032.083			
	1031.215	1031.983			
	1031.173	1031.883			
	1031.132	1031.793			
	1031.090	1031.706			
	1031.048	1031.625			
	1030.990	1031.549			
	1030.851	1031.478			
	1030.753	1031.412			
	1030.654	1031.353			
	1030.556	1031.298			
	1030.597	1031.249			
	1030.638	1031.202			
	1030.680	1031.156			
	1030.721	1031.109			
	1030.762	1031.063			
	1030.711	1031.017			
	1030.660	1030.970			
	1030.608	1030.924			
	1030.557	1030.877			
	1030.506	1030.831			
	1030.399	1030.785			
	1030.293	1030.738			
	1030.186	1030.692			
	1030.080	1030.645			
	1029.973	1030.599			
	1030.052	1030.553			
	1030.131	1030.506			
	1030.209	1030.460			
	1030.288	1030.413			
	1030.367	1030.367			

THE BASIC DESIGN STUDY ON CONSTRUCTION OF EASTERN ARTERIAL ROAD IN MONGOLIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) PACIFIC CONSULTANTS INTERNATIONAL JAPAN OVERSEAS CONSULTANTS Drawing title PLAN AND PROFILE STA. 328+600 - STA. 329+300 (SECTION-6)	DEPARTMENT OF ROADS, MINISTRY OF INFRASTRUCTURE, THE GOVERNMENT OF MONGOLIA Scale AS SHOWN Sheet No. C-40 (of 41)
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Figure 2-2-3-90 Plan and Profile (Section VI Sta.328+600-329+300)

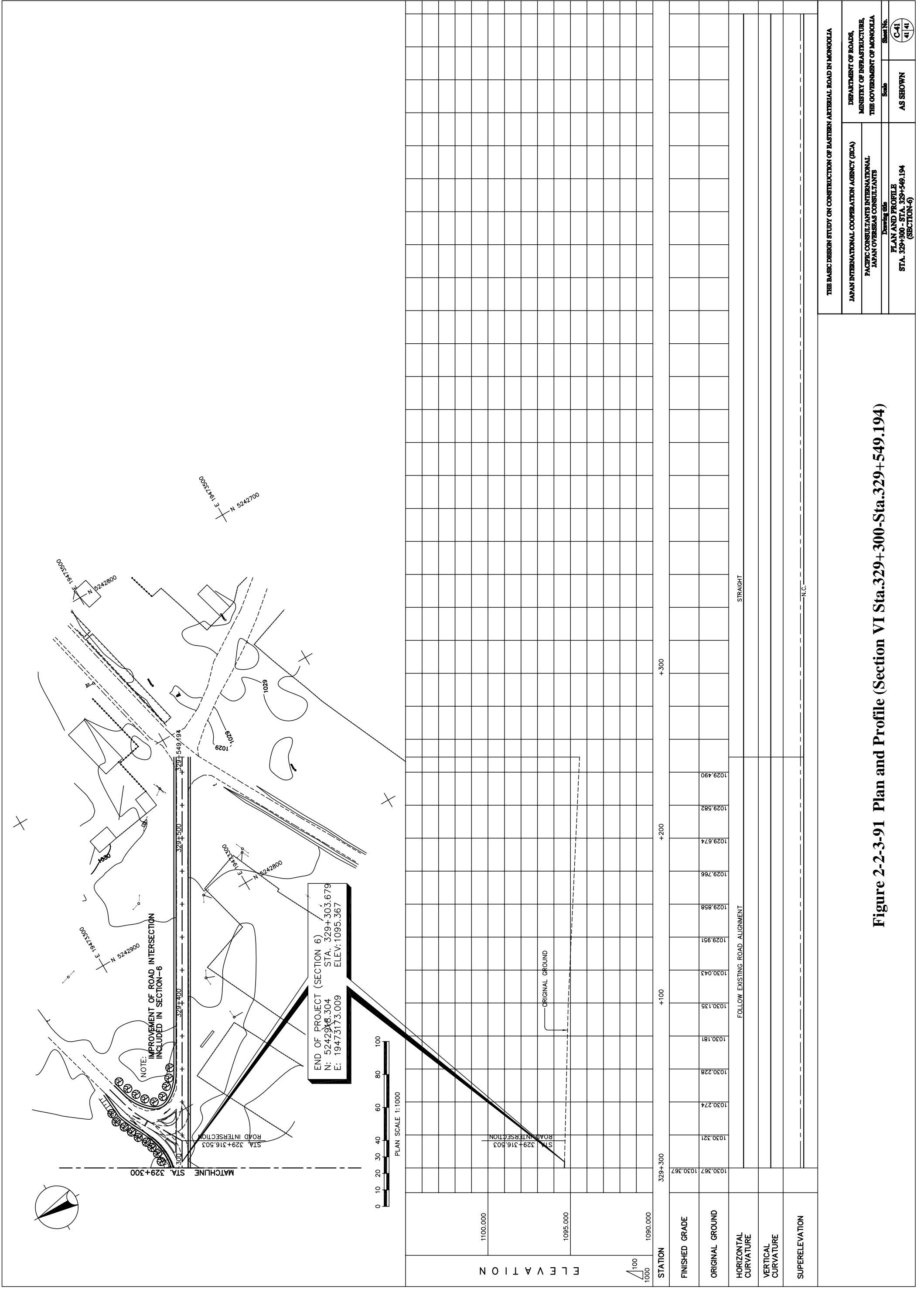
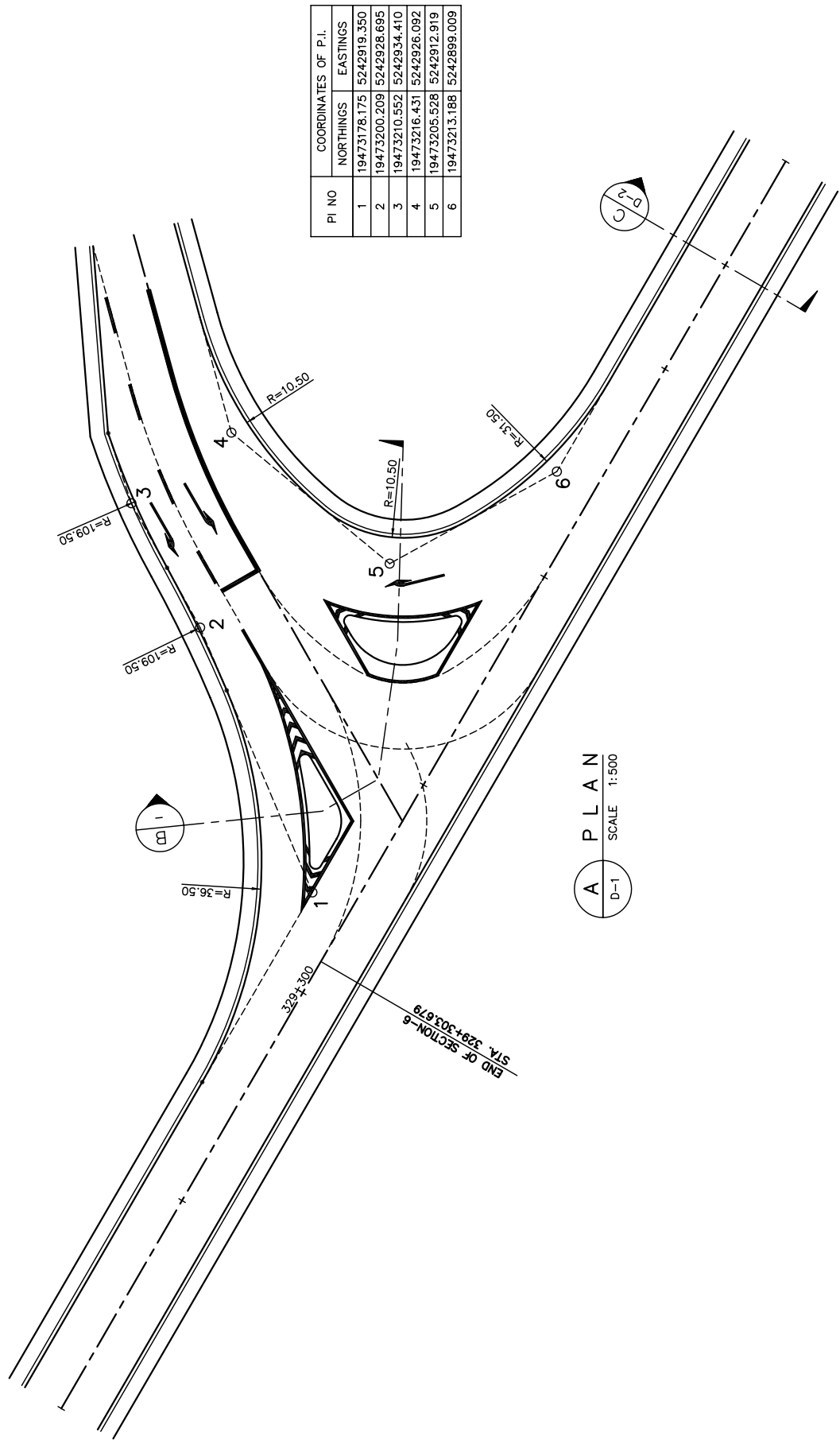
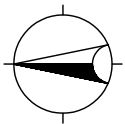


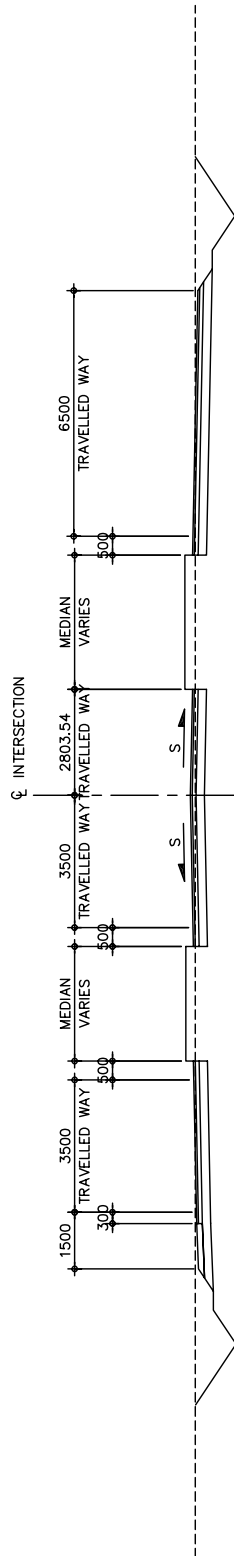
Figure 2-2-3-91 Plan and Profile (Section VI Sta.329+300-Sta.329+549.194)

THE BASIC DESIGN STUDY ON CONSTRUCTION OF EASTERN ARTERIAL ROAD IN MONGOLIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DEPARTMENT OF ROADS, MINISTRY OF INFRASTRUCTURE, THE GOVERNMENT OF MONGOLIA
PACIFIC CONSULTANTS INTERNATIONAL JAPAN OVERSEAS CONSULTANTS	Scale
Drawing title	Sheet No.
PLAN AND PROFILE STA. 329+300 - STA. 329+549.194 (SECTION-6)	AS SHOWN
	C-41 41/41



A
D-1
SCALE 1:500



B
D-1
SCALE 1:200



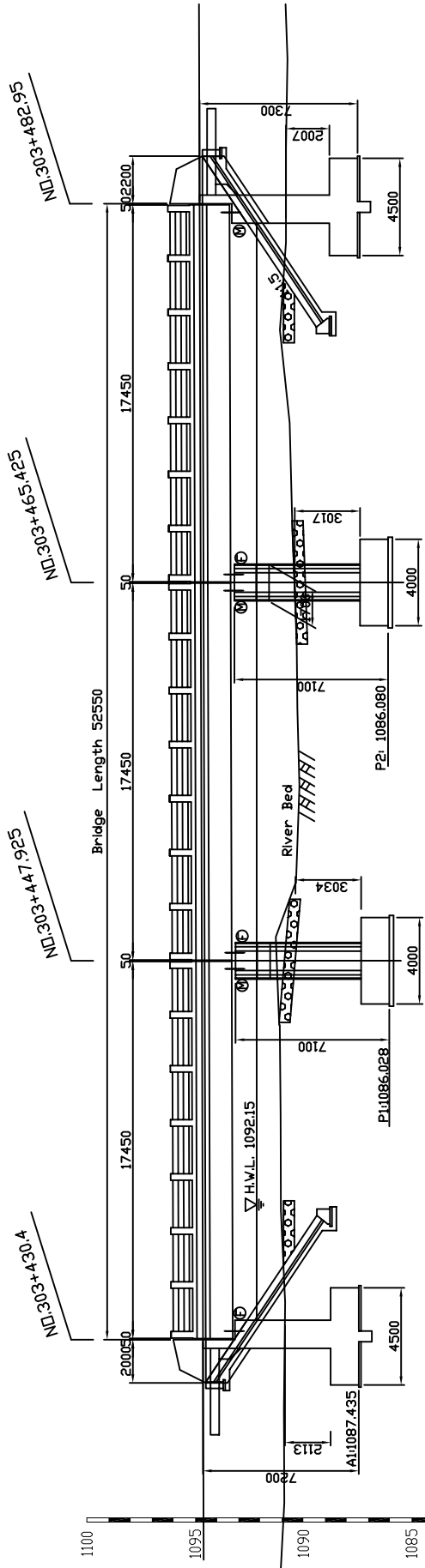
C
D-1
SCALE 1:200

THE BASIC DESIGN STUDY ON CONSTRUCTION OF EASTERN ARTERIAL ROAD IN MONGOLIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DEPARTMENT OF ROADS, MINISTRY OF INFRASTRUCTURE, THE GOVERNMENT OF MONGOLIA
PACIFIC CONSULTANTS INTERNATIONAL JAPAN OVERSEAS CONSULTANTS	Scale
Drawing title WEST UNDURKHAAN INTERSECTION DETAIL PLAN, AND TYPICAL SECTIONS (SECTION-6)	Sheet No. D-1 1/1

Figure 2-2-3-92 West Undurkhaan Intersection (Section VI)

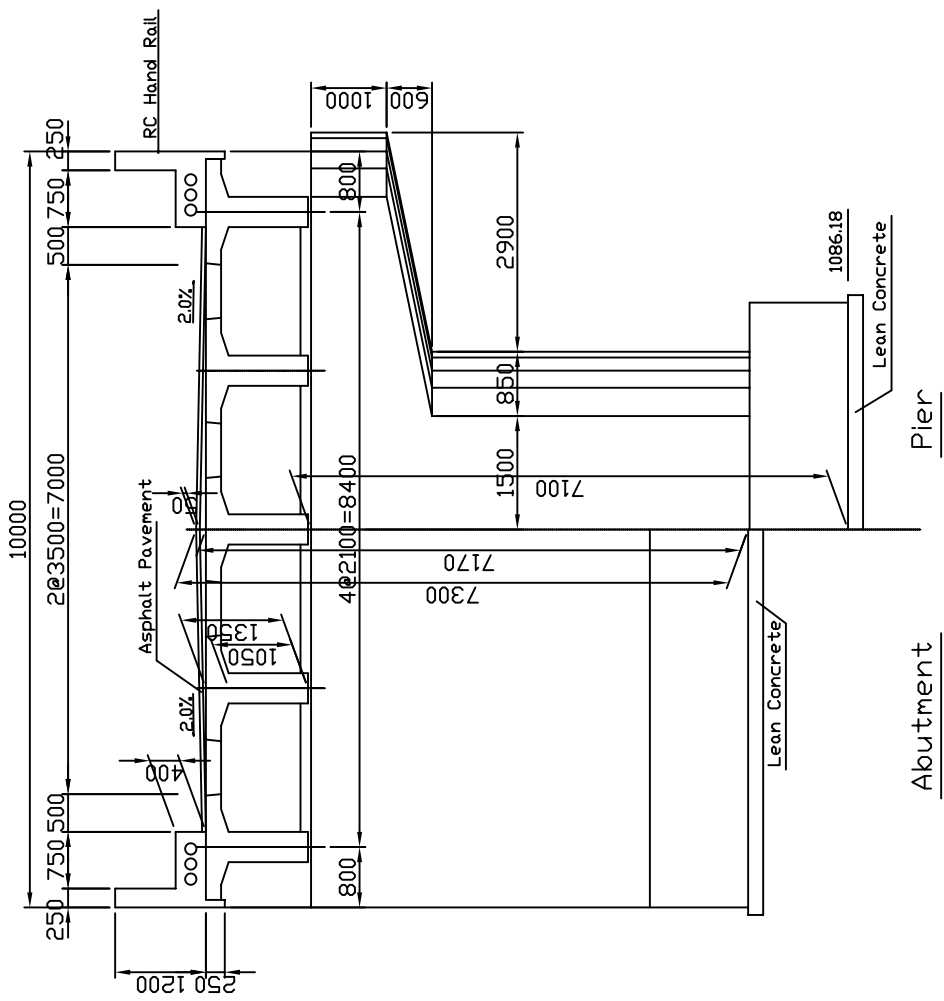
GENERAL VIEW (MURUN BRIDGE)

PROFILE 1:300

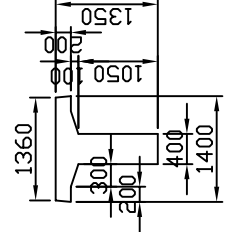


Gradient	Proposed Height	Ground Height	Distance	Station No.	Horizontal Alignment
0.300%	1090.88	1090.93	4.33	303.430	A1
	1094.634	1094.634	4.95	303.430	A1
	1090.87	1090.87	4.25	303.435	A1
	1091.04	1094.639	4.46	303.440	A1
	1091.05	1094.664	4.46	303.440	A1
	1091.08	1094.679	4.11	303.445	P1
	1091.24	1094.688	4.08	303.450	P1
	1091.24	1094.694	2.49	303.450	P1
	1090.33	1094.694	4.48	303.455	P2
	1090.18	1094.709	3.61	303.460	P2
	1090.27	1094.724	3.63	303.460	P2
	1090.31	1094.739	4.61	303.465	P2
	1090.31	1094.740	4.61	303.465	P2
	1090.5	1094.754	4.96	303.470	P2
	1090.63	1094.754	4.96	303.470	P2
	1090.63	1094.769	4.3	303.475	P2
	1090.92	1094.769	4.06	303.480	P2
	1090.64	1094.784	4.38	303.485	P2
	1090.64	1094.793	4.38	303.485	P2
	1090.69	1094.814	4.11	303.490	P2
				303.490	A2

SECTION 1:100

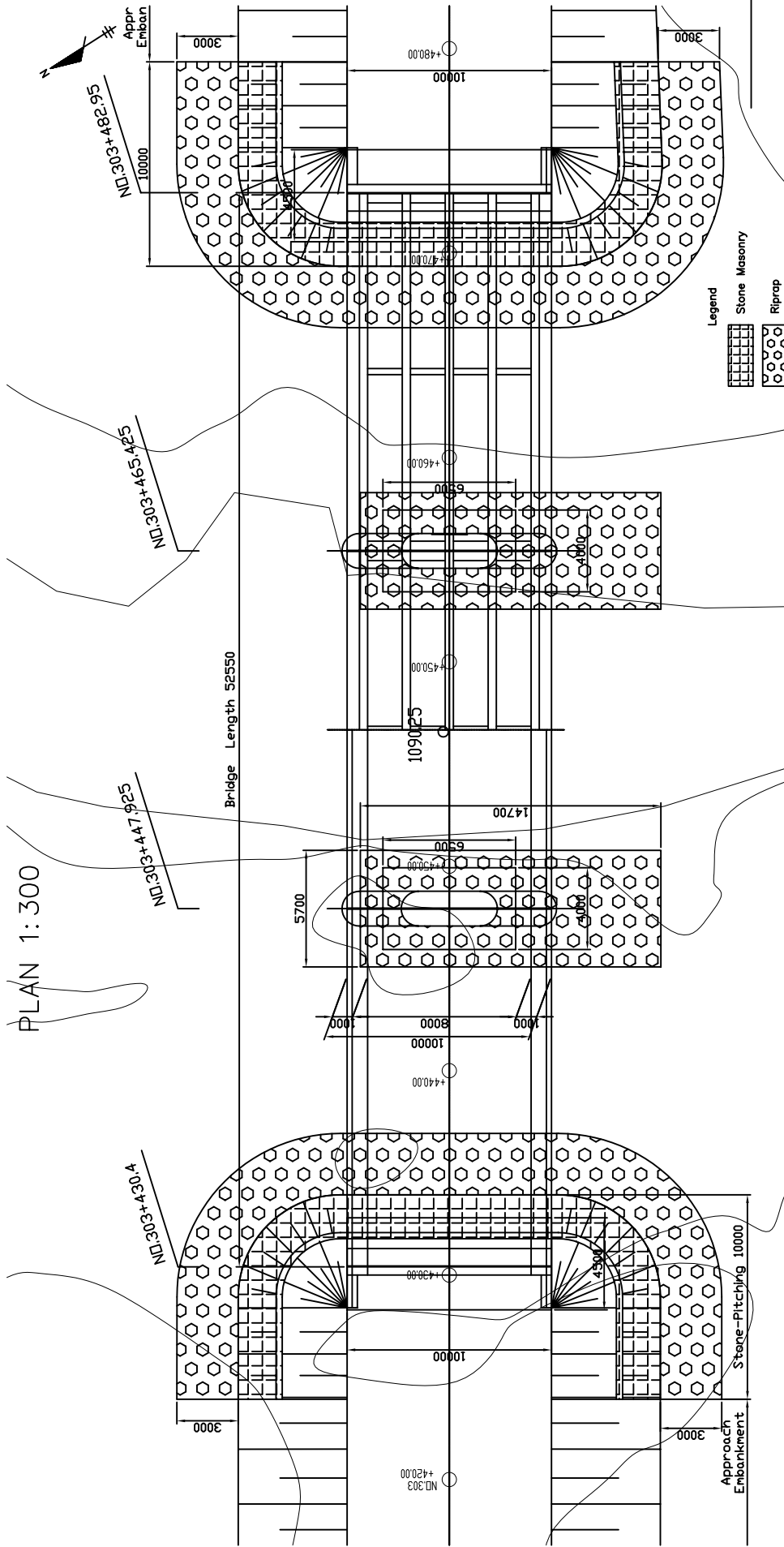


SECTION OF GIRDER 1:100



DESIGN CRITERIA	
Design Speed	V=100km/h
Bridge Length (Span Length)	52.55m (3x17.50m)
Total Width	10.00m
Longitudinal Gradient	0.300%
Cross-fall of Carriage way	2.0%
Superstructure Type	RC-T Shape Girder
Substructure Type	Abutment/RC Reversed T-Shape Pier
Foundation Type	RC Wall (Cantilever Beam) Spread (Direct)

MATERIAL STRENGTH	
Category	Material Specification
Superstructure	Girder $\sigma_{sk}=24N/mm^2$
	Cross Beam $\sigma_{sk}=24N/mm^2$
	Slab $\sigma_{sk}=24N/mm^2$
Bridge Surface	Asphalt Pavement $t=5cm$
	Curb, Hand Rail $\sigma_{sk}=21N/mm^2$
	Leveling Concrete $\sigma_{sk}=21N/mm^2$
	Concrete $\sigma_{sk}=21N/mm^2$
Substructure	Approach Slab $\sigma_{sk}=18N/mm^2$
	Lean Concrete $\sigma_{sk}=18N/mm^2$
	Reinforcing Bar $SD295(\sigma_p \geq 295N/mm^2)$



PLAN 1:300

THE BASIC DESIGN STUDY ON CONSTRUCTION OF EASTERN ARTERIAL ROAD IN MONGOLIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

DEPARTMENT OF ROADS,
MINISTRY OF INFRASTRUCTURE,
THE GOVERNMENT OF MONGOLIA

PACIFIC CONSULTANTS INTERNATIONAL
JAPAN OVERSEAS CONSULTANTS

Scale AS SHOWN

Sheet No. E-1/15

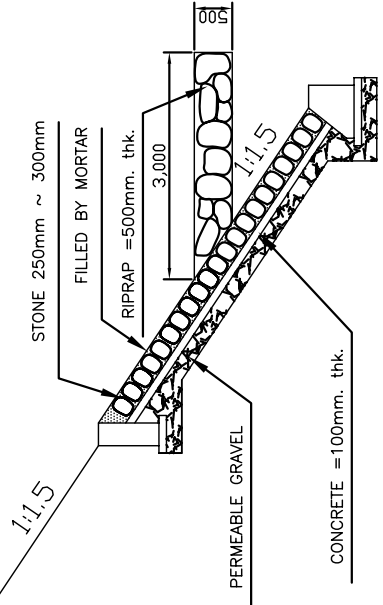
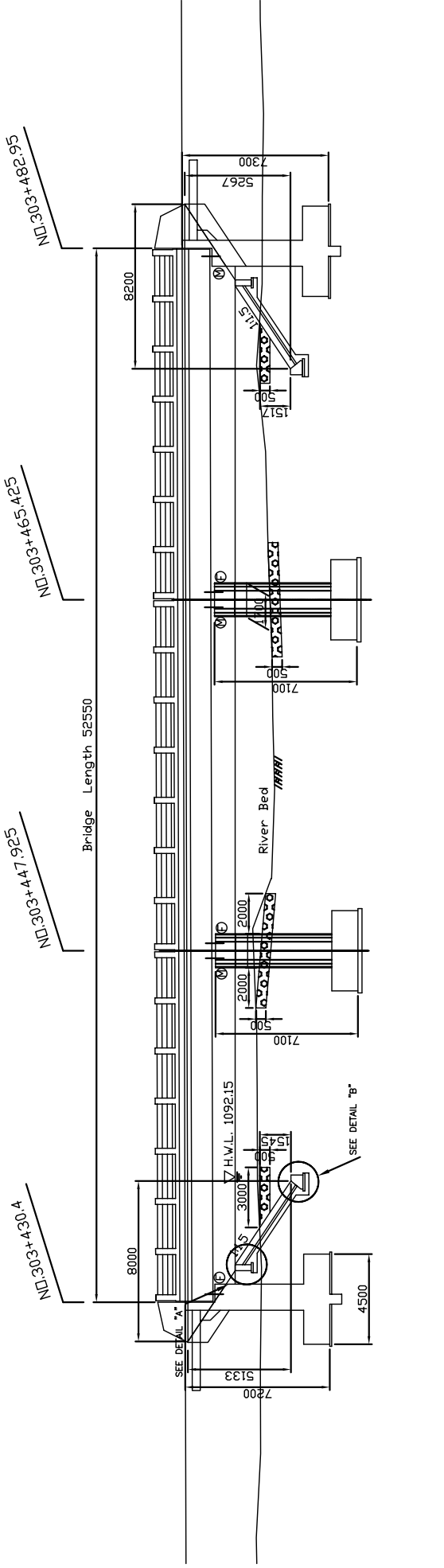
Drawing title GENERAL VIEW (MURUN BRIDGE) (SECTION-6)

Figure 2-2-3-93 General View of Murun Bridge

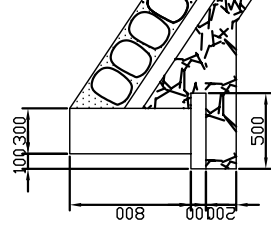
General View of Revetment (Murun Bridge)

PROFILE 1:300

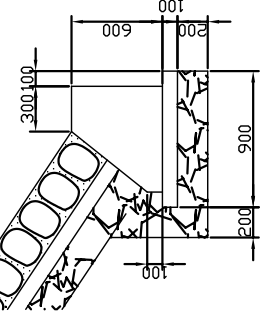
SECTIONS 1:100



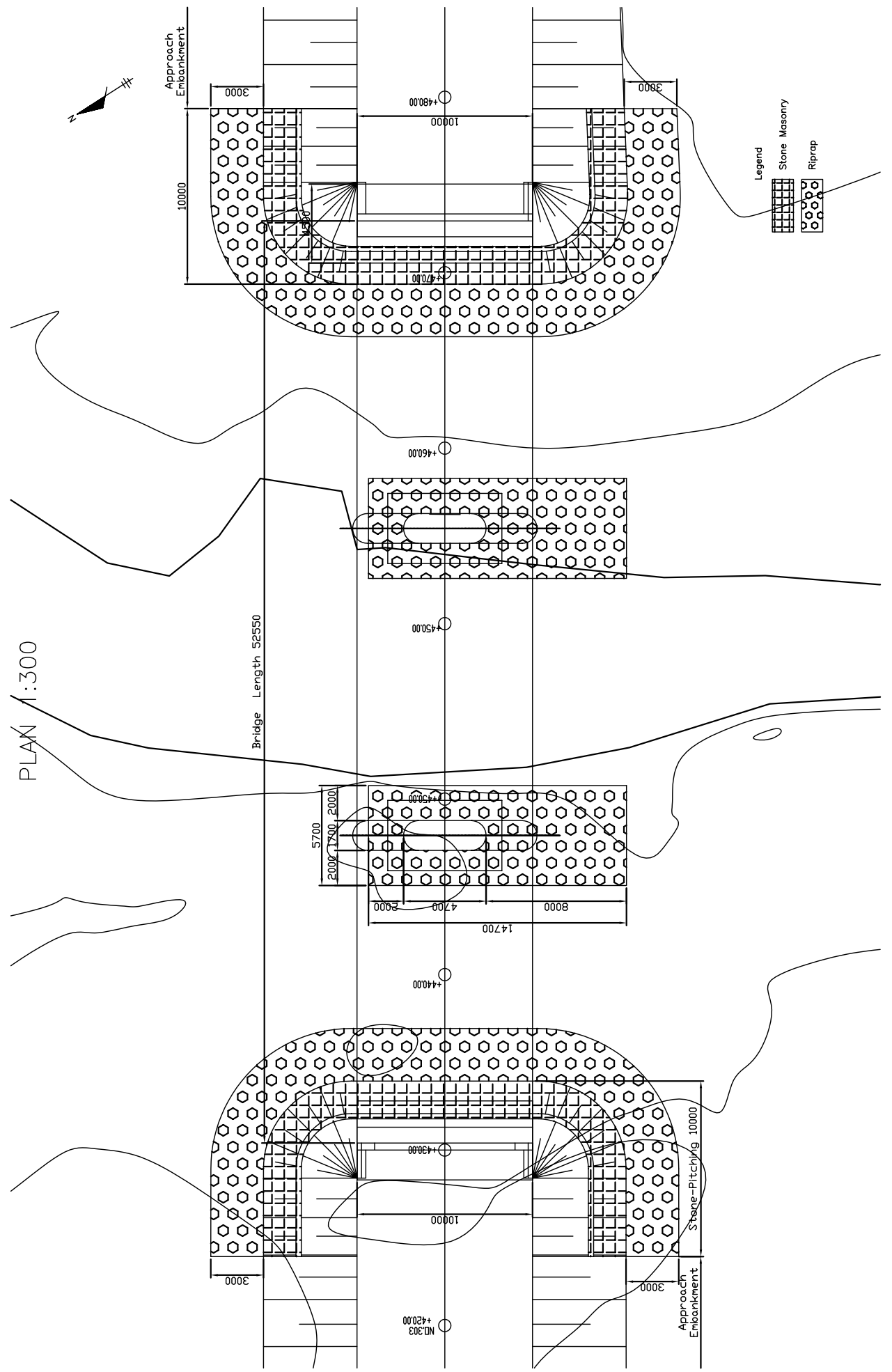
DETAIL "A" 1:50



DETAIL "B" 1:50



PLAN 1:300



THE BASIC DESIGN STUDY ON CONSTRUCTION OF EASTERN ARTERIAL ROAD IN MONGOLIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DEPARTMENT OF ROADS,
PACIFIC CONSULTANTS INTERNATIONAL JAPAN OVERSEAS CONSULTANTS	MINISTRY OF INFRASTRUCTURE, THE GOVERNMENT OF MONGOLIA
Drawing Title	Scale
GENERAL VIEW OF REVETMENT (MURUN BRIDGE) (SECTION-6)	AS SHOWN
Sheet No.	E-2 2/5

Figure 2-2-3-94 General View of Revetment, Murun Bridge

CONSTRUCTION PLAN (1/3) OF MURUN BRIDGE

PLAN 1:500

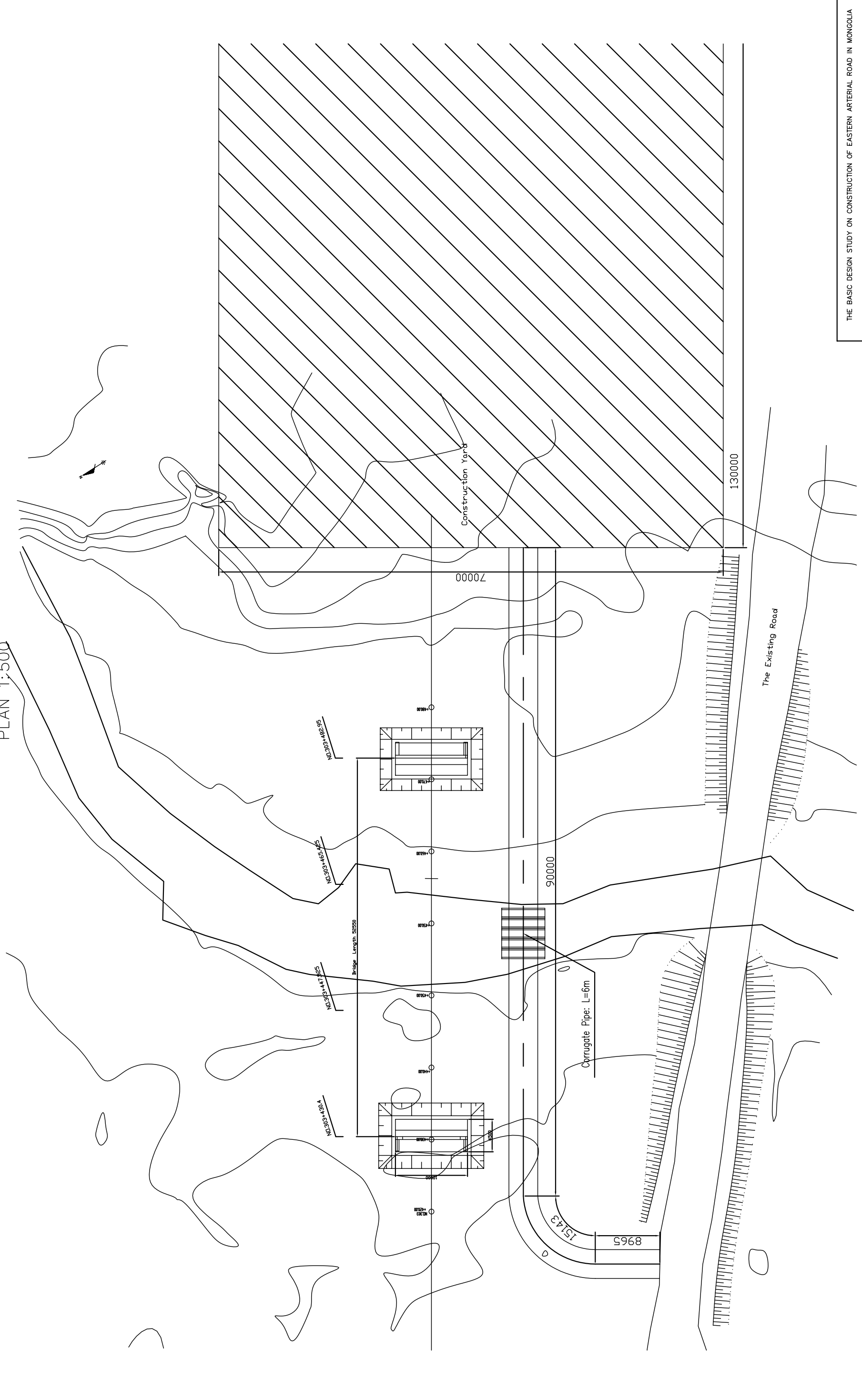
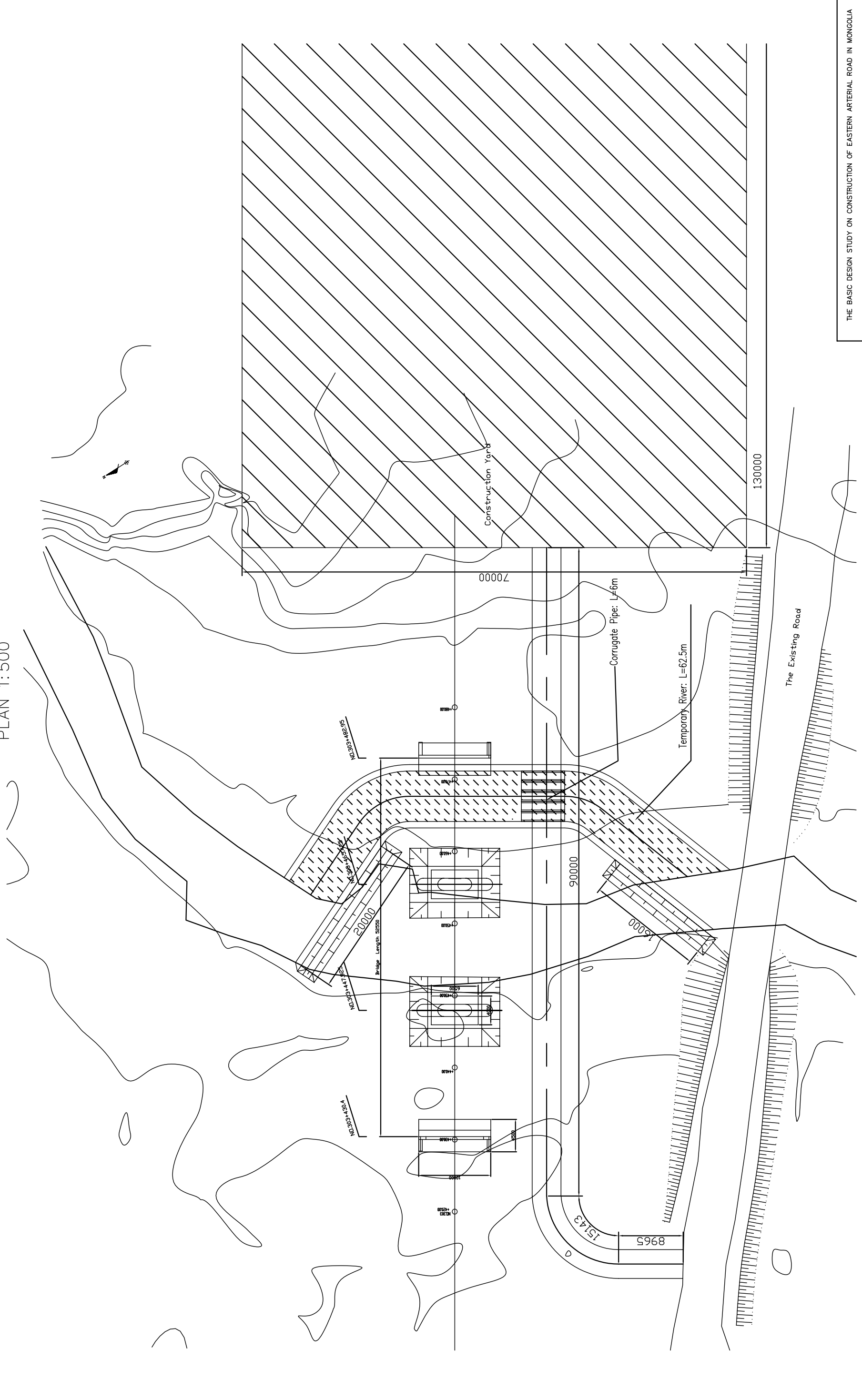


Figure 2-2-3-95 Construction Plan of Murun Bridge(1)

CONSTRUCTION PLAN (2/3) OF MURUN BRIDGE

PLAN 1:500

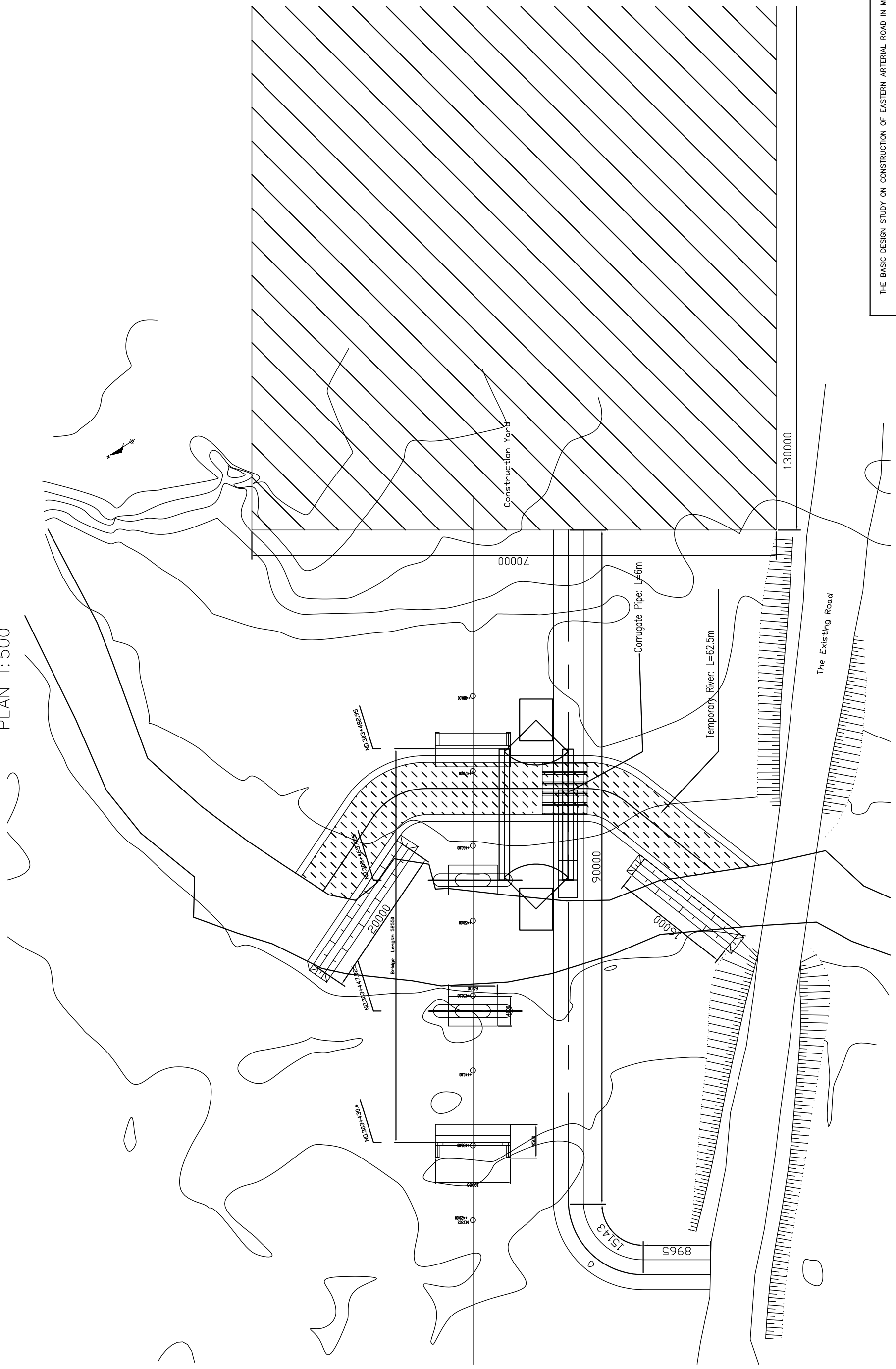


THE BASIC DESIGN STUDY ON CONSTRUCTION OF EASTERN ARTERIAL ROAD IN MONGOLIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DEPARTMENT OF ROADS,
PACIFIC CONSULTANTS INTERNATIONAL JAPAN OVERSEAS CONSULTANTS	MINISTRY OF INFRASTRUCTURE, THE GOVERNMENT OF MONGOLIA
Drawing title	Scale
CONSTRUCTION PLAN (2) (MURUN BRIDGE) (SECTION-6)	AS SHOWN
Sheet No.	Sheet No.
E-4	4/5

Figure 2-2-3-96 Construction Plan of Murun Bridge(2)

CONSTRUCTION PLAN (3/3) OF MURUN BRIDGE

PLAN 1:500



THE BASIC DESIGN STUDY ON CONSTRUCTION OF EASTERN ARTERIAL ROAD IN MONGOLIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DEPARTMENT OF ROADS,
PACIFIC CONSULTANTS INTERNATIONAL JAPAN OVERSEAS CONSULTANTS	MINISTRY OF INFRASTRUCTURE, THE GOVERNMENT OF MONGOLIA
Drawing title	
CONSTRUCTION PLAN (3)	Scale
(MURUN BRIDGE)	AS SHOWN
(SECTION-6)	Sheet No.
	E-5
	5/5

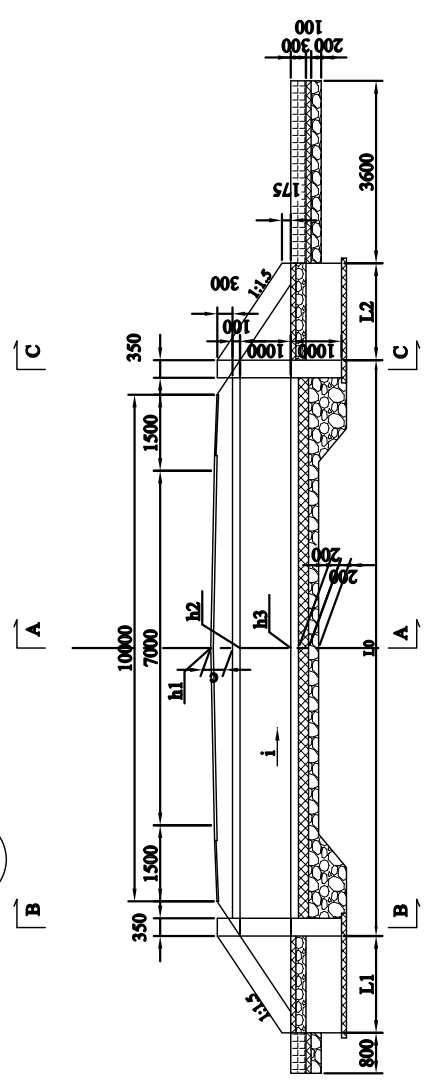
Figure 2-2-3-97 Construction Plan of Murun Bridge(3)

GENERAL VIEW OF PIPE CULVERT
TypeA $\phi=1000$

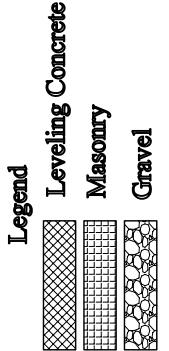
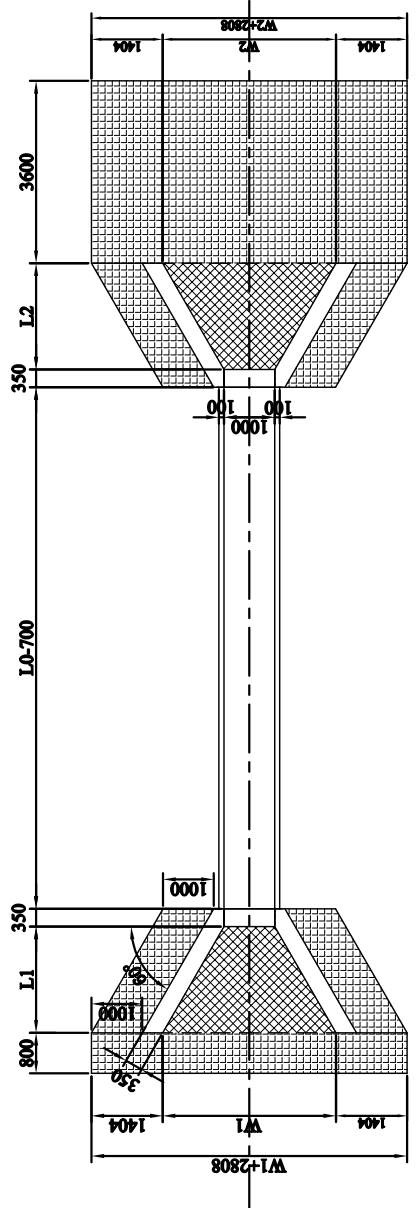
4 DESIGN CRITERIA
F-1

STRUCTURE TYPE	RC PRECAST PIPE CULVERT
LIVE LOAD	AASHTO HS20-44 W-18.1t
SNOW LOAD	NULL
IMPACT COEFFICIENT	0.5
ROAD WIDTH	TOTAL 10.0m EFFECTIVE 9.0m CARRIAGEWAY 2@3.5m SHOULDER 1.0m
ANGLE OF SKEW	90°
FOUNDATION TYPE	SPREAD
CONCRETE	PRECAST PIPE CAST IN PLACE
REINFORCEMENT BAR	SD295 SD295
BEARING CAPACITY OF GROUND	$q = 200kN/m^2$

1 PROFILE OF PIPE CULVERT
SCALE 1:150
F-1



2 PLAN OF PIPE CULVERT
SCALE 1:150
F-1

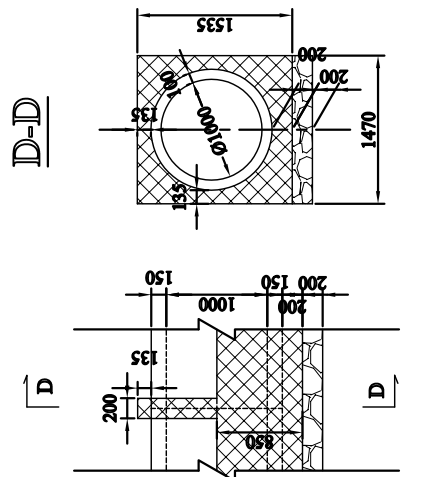


5 LIST OF LENGTH
F-1

Section VI

Point	Type	i	h1	h2	h3	c	L0	L1	L2	W1	W2
304 + 206	A	1.0	1102.6300	1101.7983	1100.7983	732	12108	1810	1865	3090	3154
304 + 600	B	1.0	1102.3840	1101.5000	1100.0000	744	12265	2608	2688	4511	4604
306 + 509	B	1.0	1117.8150	1116.9286	1115.4286	746	12272	2608	2688	4511	4604
307 + 23	C	1.0	1118.1810	1117.2922	1115.7922	749	12279	2608	2688	4511	4604
308 + 335	C	1.0	1127.0115	1126.0993	1124.5993	772	12349	2608	2688	4511	4604
310 + 318	B	1.0	1129.8730	1128.6984	1127.1984	1035	13137	2608	2688	4511	4604
311 + 200	C	2.0	1127.8730	1126.9850	1125.4850	748	12285	2570	2729	6668	6851
311 + 422	C	2.5	1126.5890	1125.6861	1124.1861	763	12336	2552	2751	6647	6877
314 + 0	B	1.0	1155.0530	1154.0970	1152.5970	816	12481	2608	2688	4511	4604
315 + 181	B	2.0	1141.1575	1140.2690	1138.7690	749	12287	2570	2729	4468	4651
315 + 700	C	1.0	1136.9033	1135.6690	1134.1690	1094	13316	2608	2688	4511	4604
316 + 857	B	1.5	1124.2030	1123.2974	1121.7974	766	12333	2589	2708	4490	4627
317 + 763	A	1.0	1116.4571	1115.5866	1114.5866	770	12224	1810	1865	3090	3154
318 + 458	B	1.0	1108.1038	1106.5246	1105.0246	1439	14351	2608	2688	4511	4604
319 + 529	B	1.0	1095.8010	1094.8992	1093.3992	762	12318	2608	2688	4511	4604
320 + 600	C	1.0	1087.8840	1086.6980	1085.1980	1046	13171	2608	2688	4511	4604
321 + 300	B	1.0	1086.3718	1085.4620	1083.9620	770	12342	2608	2688	4511	4604
322 + 0	C	2.5	1079.5919	1078.5820	1077.0820	870	12657	2552	2751	6647	6877
322 + 700	B	1.0	1083.9900	1083.0940	1081.5940	756	12301	2608	2688	4511	4604
323 + 552	A	1.0	1081.8445	1080.7188	1079.7188	1026	12990	1810	1865	3090	3154
324 + 68	A	1.0	1075.5474	1073.5021	1072.5021	1945	15749	1810	1865	3090	3154
326 + 0	B	1.0	1045.9650	1045.0260	1043.5260	799	12430	2608	2688	4511	4604

6 PIPE JOINT DETAIL
SCALE 1:75
F-1



3 CROSS SECTION OF PIPE CULVERT
SCALE 1:100
F-1

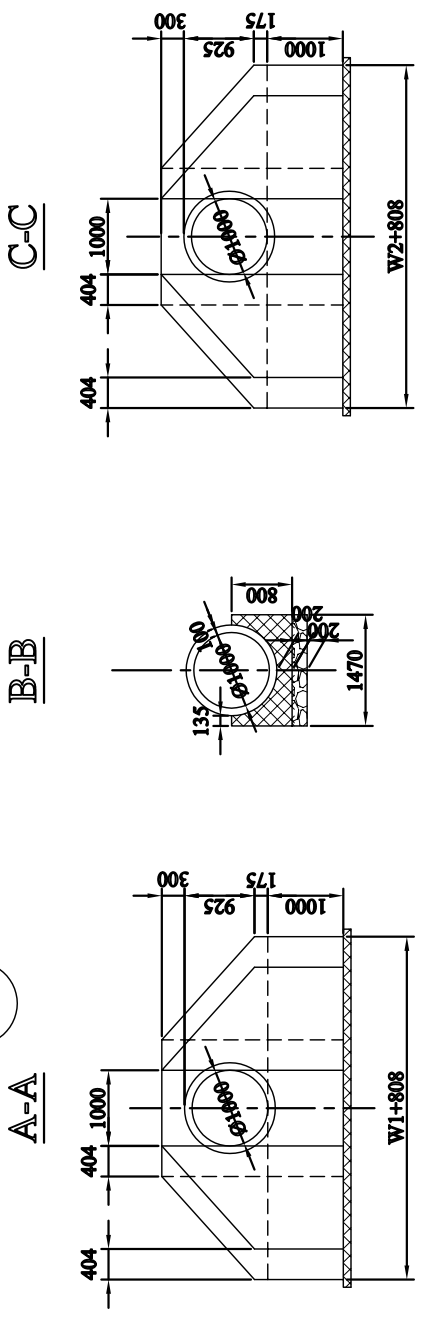


Figure 2-2-3-98 General View of Pipe Culvert (Type "A" =1000)

THE BASIC DESIGN STUDY ON CONSTRUCTION OF EASTERN ARTERIAL ROAD IN MONGOLIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

DEPARTMENT OF ROADS,
MINISTRY OF INFRASTRUCTURE,
THE GOVERNMENT OF MONGOLIA

PACIFIC CONSULTANTS INTERNATIONAL
JAPAN OVERSEAS CONSULTANTS

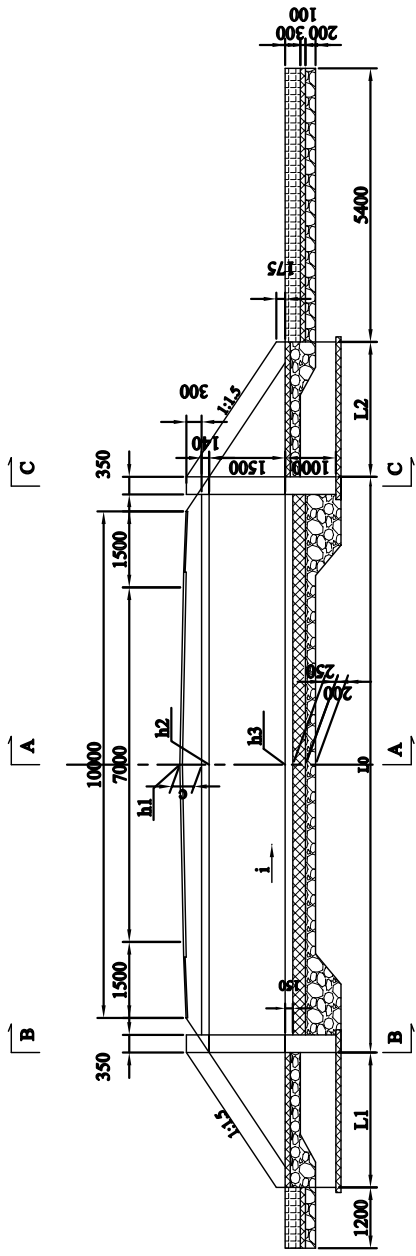
Drawing title
GENERAL VIEW OF PIPE CULVERT
TYPE A (φ1000)
(SECTION-6)

Scale
AS SHOWN

Sheet No.
F-1
115

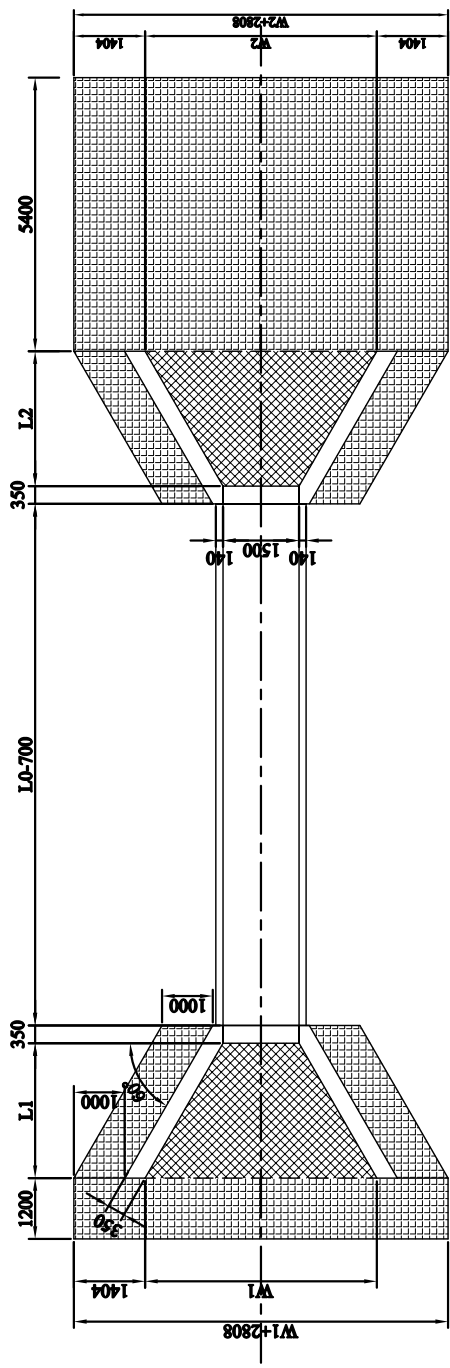
GENERAL VIEW OF PIPE CULVERT TypeB $\phi=1500$

1 PROFILE OF PIPE CULVERTS
SCALE 1:150
F-2

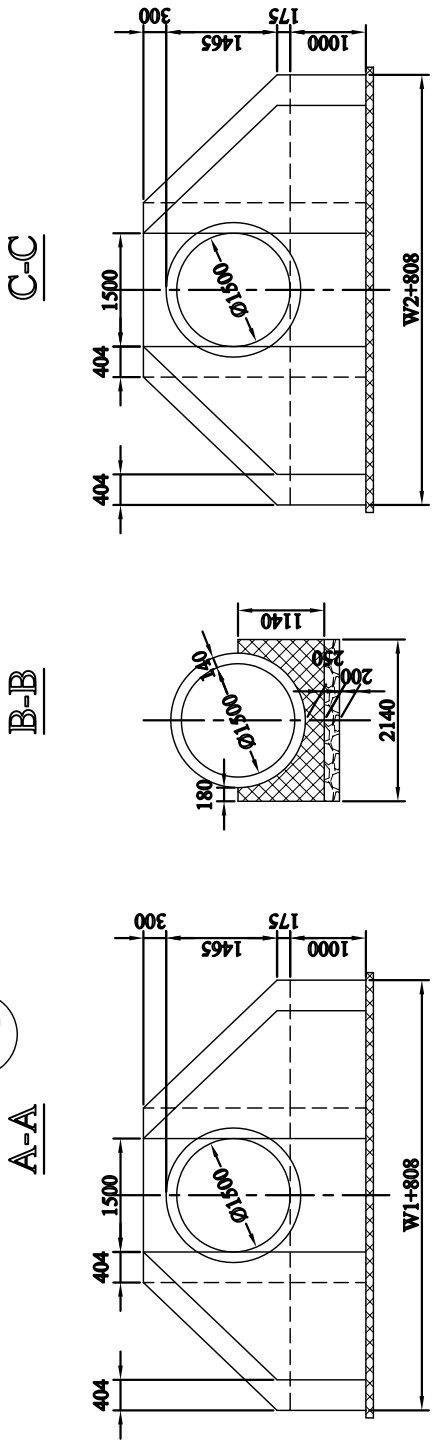


Legend	
	Leveling Concrete
	Masonry
	Gravel

2 PLAN OF PIPE CULVERTS
SCALE 1:150
F-2



3 CROSS SECTION OF PIPE CULVERT
SCALE 1:100
F-2



4 DESIGN CRITERIA F-2

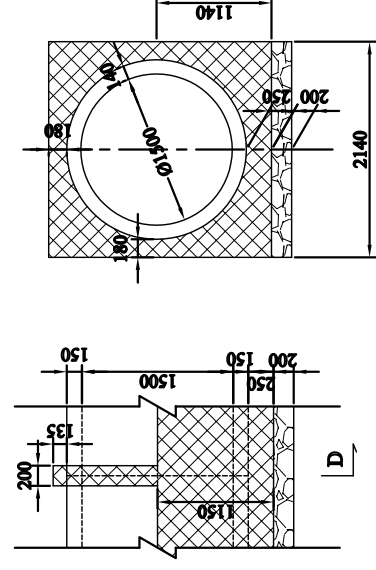
STRUCTURE TYPE	RC PRECAST PIPE CULVERT
LIVE LOAD	AAASHTO HS20-44 W=18.1t
SNOW LOAD	NULL
IMPACT COEFFICIENT	0.5
ROAD WIDTH	TOTAL 10.0m
	EFFECTIVE 9.0m
	CARRIAGEWAY 2@3.5m
	SHOULDER 1.0m
ANGLE OF SKEW	90°
FOUNDATION TYPE	SPREAD
CONCRETE	PRECAST PIPE cast in place FOUNDATION
REINFORCEMENT BAR	cast = 21.0N/mm ² cast = 18.0N/mm ²
BEARING CAPACITY OF GROUND	SD295 q = 200kN/m ²

5 LIST OF LENGTH F-2

Section II

Point	Type	i	b1	b2	b3	c	L0	L1	L2	W1	W2	
304 +	206	A	1.0	1102.6300	1101.7983	1100.7983	732	12108	1810	1865	3090	3154
304 +	600	B	1.0	1102.3840	1101.5000	1100.0000	744	12265	2608	2688	4511	4604
306 +	509	B	1.0	1117.8150	1116.9286	1115.4286	746	12272	2608	2688	4511	4604
307 +	23	C	1.0	1118.1810	1117.2922	1115.7922	749	12279	2608	2688	4511	4604
308 +	335	C	1.0	1127.0115	1126.0993	1124.5993	772	12349	2608	2688	4511	4604
310 +	318	B	1.0	1129.8730	1128.6984	1127.1984	1035	13137	2608	2688	4511	4604
311 +	200	C	2.0	1127.8730	1126.9850	1125.4850	748	12285	2570	2729	6668	6851
311 +	422	C	2.5	1126.5890	1125.6861	1124.1861	763	12336	2552	2751	6647	6877
314 +	0	B	1.0	1155.0530	1154.0970	1152.5970	816	12481	2608	2688	4511	4604
315 +	181	B	2.0	1141.1575	1140.2690	1138.7690	749	12287	2570	2729	4468	4651
315 +	700	C	1.0	1136.9033	1135.6690	1134.1690	1094	13316	2608	2688	4511	4604
316 +	857	B	1.5	1124.2030	1123.2974	1121.7974	766	12333	2589	2708	4490	4627
317 +	763	A	1.0	1116.4571	1115.5866	1114.5866	770	12224	1810	1865	3090	3154
318 +	458	B	1.0	1108.1038	1106.5246	1105.0246	1439	14351	2608	2688	4511	4604
319 +	529	B	1.0	1095.8010	1094.8992	1093.3992	762	12318	2608	2688	4511	4604
320 +	600	C	1.0	1087.8840	1086.6980	1085.1980	1046	13171	2608	2688	4511	4604
321 +	300	B	1.0	1086.3718	1085.4620	1083.9620	770	12342	2608	2688	4511	4604
322 +	0	C	2.5	1079.5919	1078.5820	1077.0820	870	12657	2552	2751	6647	6877
322 +	700	B	1.0	1083.9900	1083.0940	1081.5940	756	12301	2608	2688	4511	4604
323 +	552	A	1.0	1081.8445	1080.7188	1079.7188	1026	12990	1810	1865	3090	3154
324 +	68	A	1.0	1075.5474	1073.5021	1072.5021	1945	15749	1810	1865	3090	3154
326 +	0	B	1.0	1045.9650	1045.0260	1043.5260	799	12430	2608	2688	4511	4604

6 PIPE JOINT DETAIL
SCALE 1:75
F-2



THE BASIC DESIGN STUDY ON CONSTRUCTION OF EASTERN ARTERIAL ROAD IN MONGOLIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DEPARTMENT OF ROADS,
PACIFIC CONSULTANTS INTERNATIONAL THE GOVERNMENT OF MONGOLIA	MINISTRY OF INFRASTRUCTURE, THE GOVERNMENT OF MONGOLIA
Drawing title	
GENERAL VIEW OF PIPE CULVERT TYPE B ($\phi 1500$) (SECTION-6)	
Scale	Sheet No.
AS SHOWN	F-2 215

Figure 2-2-3-99 General View of Pipe Culvert(Type "B" =1500)

4 DESIGN CRITERIA

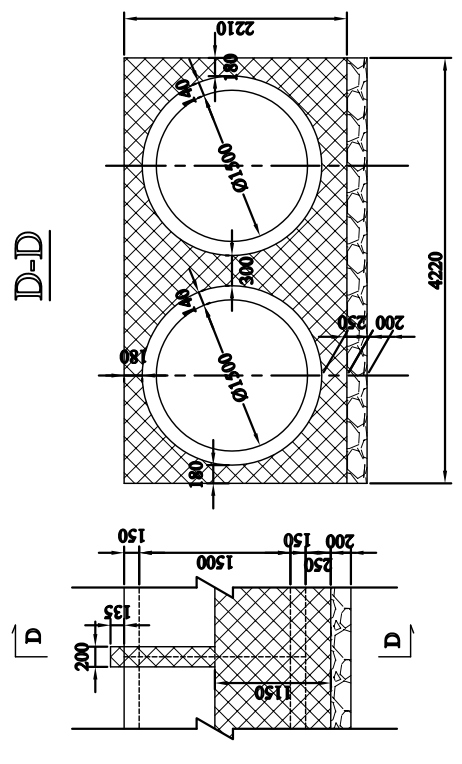
STRUCTURE TYPE	RC PRECAST PIPE CULVERT
LIVE LOAD	AASHTO HS20-44 W=18.1t
SNOW LOAD	NULL
IMPACT COEFFICIENT	0.3
ROAD WIDTH	TOTAL 10.0m
ANGLE OF SKEW	EFFECTIVE 0.0m
FOUNDATION TYPE	CARRIAGEWAY 2@3.5m
CONCRETE	SPREAD
REINFORCEMENT BAR	rack = 24.0N/mm ²
BEARING CAPACITY OF GROUND	rack = 21.0N/mm ²
	rack = 18.0N/mm ²
	SD295
	β = 200kN/m ²

5 LIST OF LENGTH

Section II

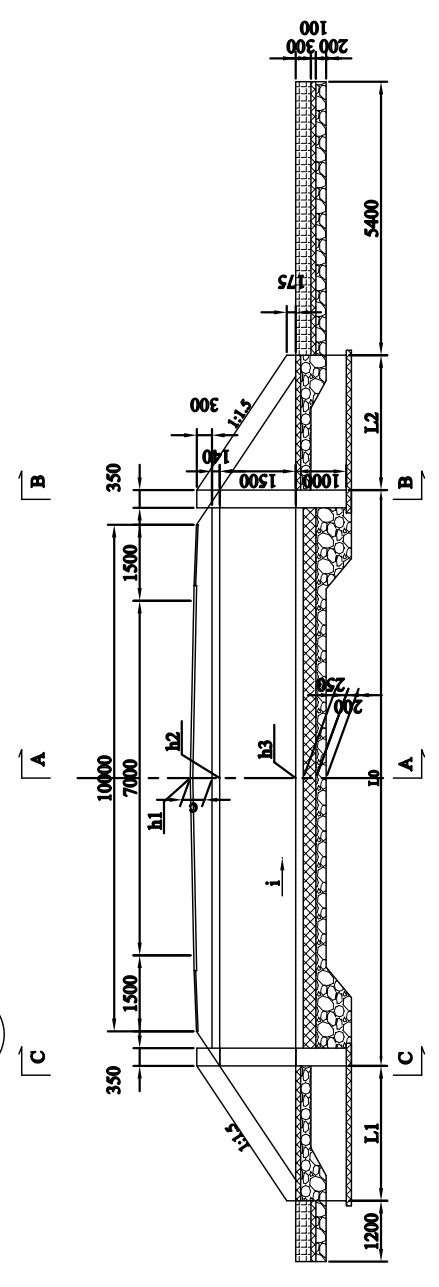
Point	Type	l	h1	h2	h3	c	L0	L1	L2	W1	W2	
304 +	206	A	1.0	1102.6300	1101.7983	1100.7983	732	12108	1810	1865	3090	3154
304 +	600	B	1.0	1102.3840	1101.5000	1100.0000	744	12265	2608	2688	4511	4604
306 +	509	B	1.0	1117.8150	1116.9286	1115.4286	746	12272	2608	2688	4511	4604
307 +	23	C	1.0	1118.1810	1117.2922	1115.7922	749	12279	2608	2688	4511	4604
308 +	335	C	1.0	1127.0115	1126.0993	1124.5993	772	12349	2608	2688	4511	4604
310 +	318	B	1.0	1129.8730	1128.6984	1127.1984	1035	13137	2608	2688	4511	4604
311 +	200	C	2.0	1127.8730	1126.9850	1125.4850	748	12285	2570	2729	6668	6851
311 +	422	C	2.5	1126.5890	1125.6861	1124.1861	763	12336	2552	2751	6647	6877
314 +	0	B	1.0	1155.0530	1154.0970	1152.5970	816	12481	2608	2688	4511	4604
315 +	181	B	2.0	1141.1575	1140.2690	1138.7690	749	12287	2570	2729	4468	4651
315 +	700	C	1.0	1136.9033	1135.6690	1134.1690	1094	13316	2608	2688	4511	4604
316 +	857	B	1.5	1124.2030	1123.2974	1121.7974	766	12333	2589	2708	4490	4627
317 +	763	A	1.0	1116.4571	1115.5866	1114.5866	770	12224	1810	1865	3090	3154
318 +	458	B	1.0	1108.1038	1106.5246	1105.0246	1439	14351	2608	2688	4511	4604
319 +	529	B	1.0	1095.8010	1094.8992	1093.3992	762	12318	2608	2688	4511	4604
320 +	600	C	1.0	1087.8840	1086.6980	1085.1980	1046	13171	2608	2688	4511	4604
321 +	300	B	1.0	1086.3718	1085.4620	1083.9620	770	12342	2608	2688	4511	4604
322 +	0	C	2.5	1079.5919	1078.5820	1077.0820	870	12657	2552	2751	6647	6877
322 +	700	B	1.0	1083.9900	1083.0940	1081.5940	756	12301	2608	2688	4511	4604
323 +	552	A	1.0	1081.8445	1080.7188	1079.7188	1026	12990	1810	1865	3090	3154
324 +	68	A	1.0	1075.5474	1073.5021	1072.5021	1945	15749	1810	1865	3090	3154
326 +	0	B	1.0	1045.9650	1045.0260	1043.5260	799	12430	2608	2688	4511	4604

6 PIPE JOINT DETAIL

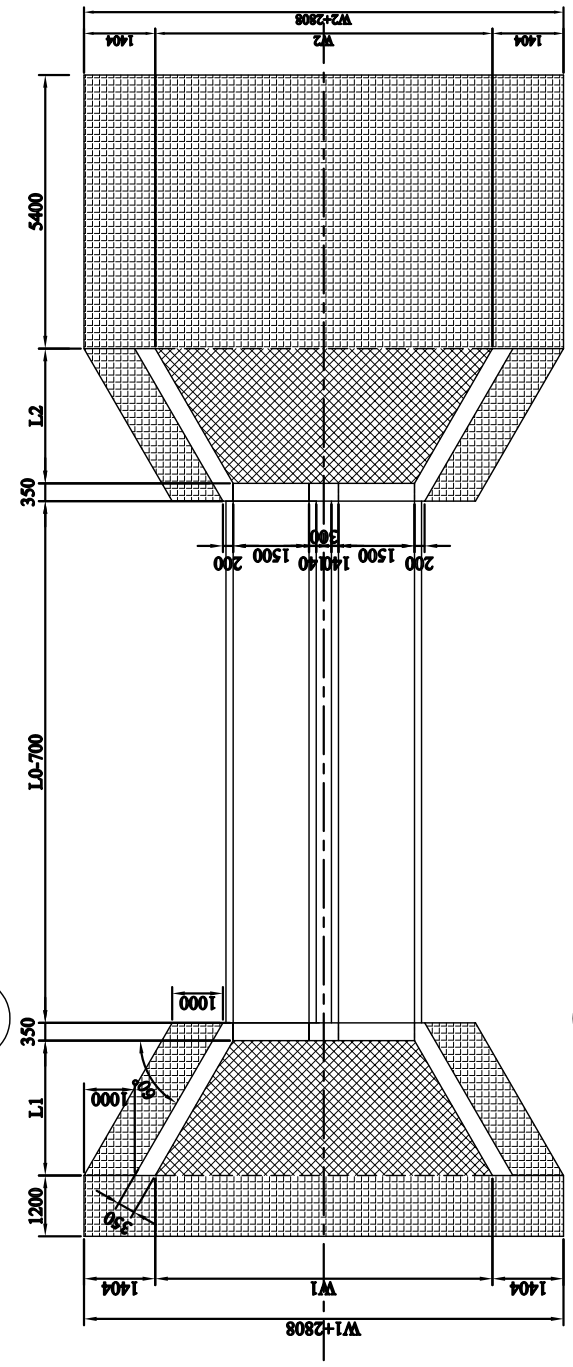


GENERAL VIEW OF PIPE CULVERT
Type C 2@ø=1500

1 PROFILE OF PIPE CULVERT
SCALE 1:150



2 PLAN OF PIPE CULVERT
SCALE 1:150



3 CROSS SECTION OF PIPE CULVERT
SCALE 1:20

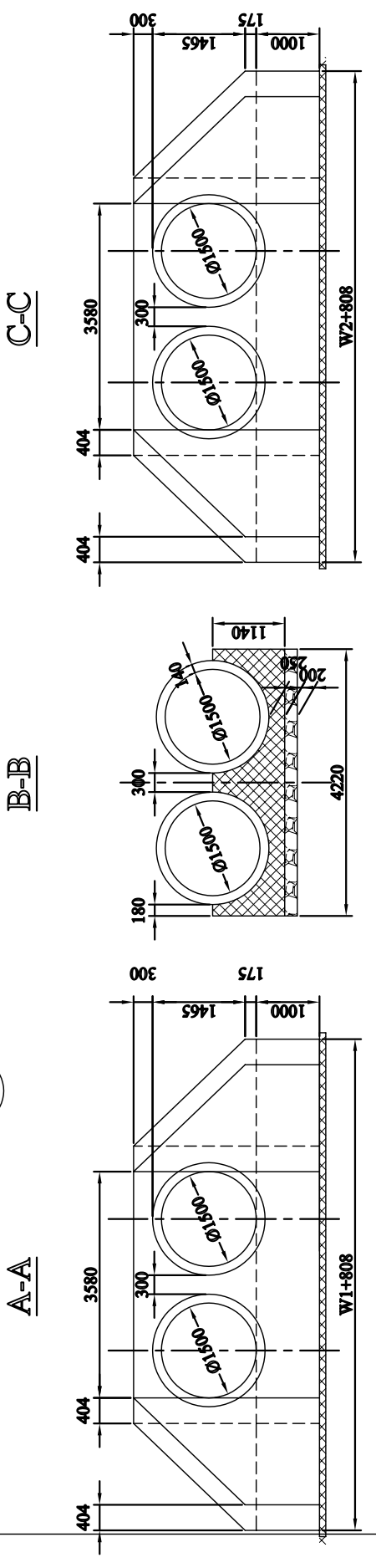


Figure 2-2-3-100 General View of Pipe Culvert(Type "C" 2@ø=1500)

THE BASIC DESIGN STUDY ON CONSTRUCTION OF EASTERN ARTERIAL ROAD IN MONGOLIA

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

DEPARTMENT OF ROADS,
MINISTRY OF INFRASTRUCTURE,
THE GOVERNMENT OF MONGOLIA

PACIFIC CONSULTANTS INTERNATIONAL
JAPAN OVERSEAS CONSULTANTS

Drawing title
GENERAL VIEW OF PIPE CULVERT
TYPE C (2@1500)
(SECTION-6)

Scale
AS SHOWN

Sheet No.
F-3
3/5

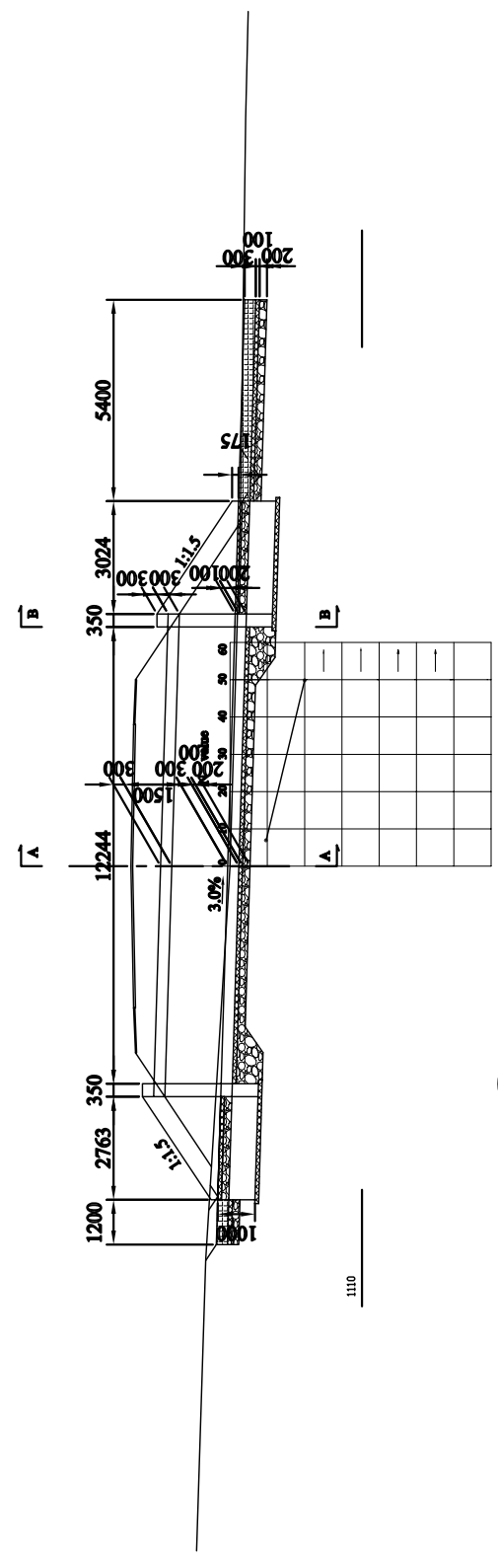
4 DESIGN CRITERIA

RC BOX CULVERT	
STRUCTURE TYPE	AASHTO HS-20-44 W-18.8
LIVE LOAD	NULL
IMPACT COEFFICIENT	0.3
ROAD WIDTH	TOTAL 10.5m
	EFFECTIVE 9.0m
	CARRIAGEWAY 2x3.5m
	SHOULDER 1.0m
ANGLE OF SKEW	90°
FOUNDATION TYPE	SPREAD
CONCRETE	STRENGTH CLASS = C25
REINFORCEMENT BAR	18.0mm
BEARING CAPACITY OF GROUND	180kN/m ²

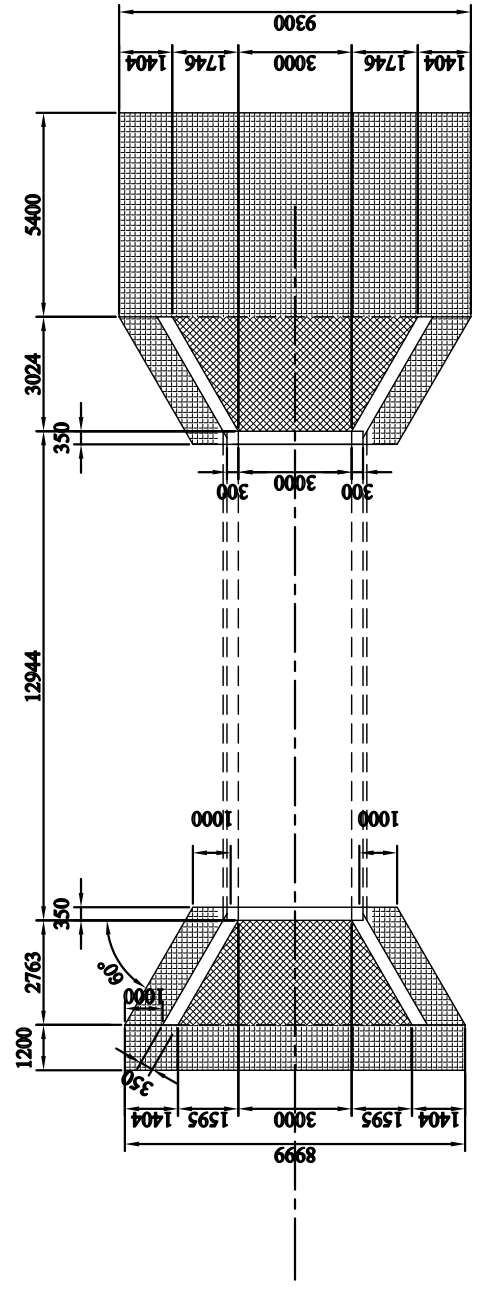
GENERAL VIEW OF BOX CULVERT
BC 1 (305 +530)

1 PROFILE OF BOX CULVERT
SCALE 1:200

BC1 305 +530
GH= 1113.54
PH= 1116.20



2 PLAN OF BOX CULVERT
SCALE 1:200



Legend
 Leveling Concrete
 Masonry
 Gravel

3 CROSS SECTION OF BOX CULVERT
SCALE 1:20

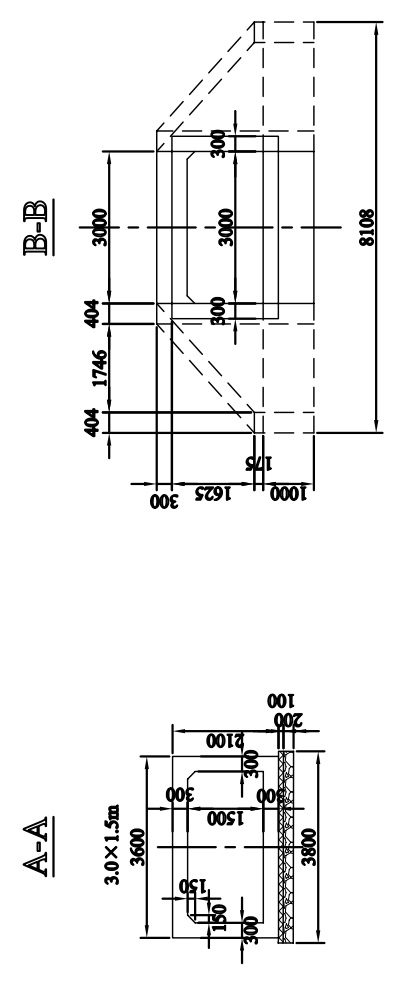


Figure 2-2-3-101 General View of Box Culvert(BC1 Sta.305+530)

THE BASIC DESIGN STUDY ON CONSTRUCTION OF EASTERN ARTERIAL ROAD IN MONGOLIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DEPARTMENT OF ROADS,
PACIFIC CONSULTANTS INTERNATIONAL JAPAN OVERSEAS CONSULTANTS	MINISTRY OF INFRASTRUCTURE, THE GOVERNMENT OF MONGOLIA
Drawing title	
GENERAL VIEW OF BOX CULVERT	
BC1 (305 +530)	
(SECTION-6)	
Scale	AS SHOWN
Sheet No.	F-4 4/5

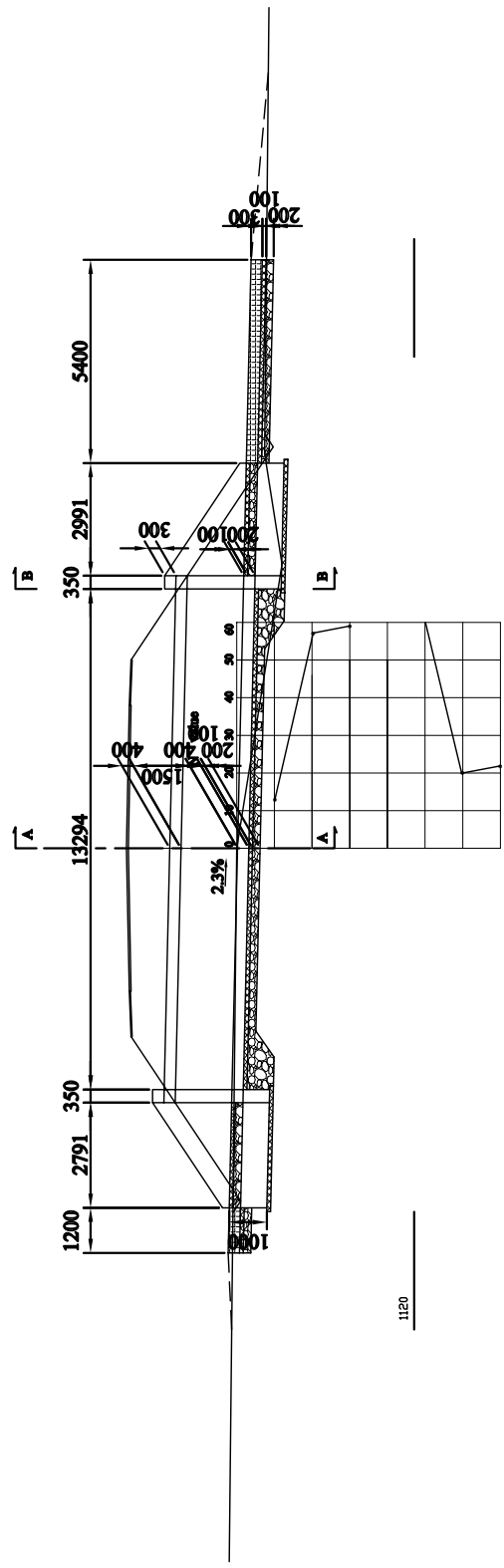
GENERAL VIEW OF BOX CULVERT
BC 2 (309 +058)

4 DESIGN CRITERIA
F-5

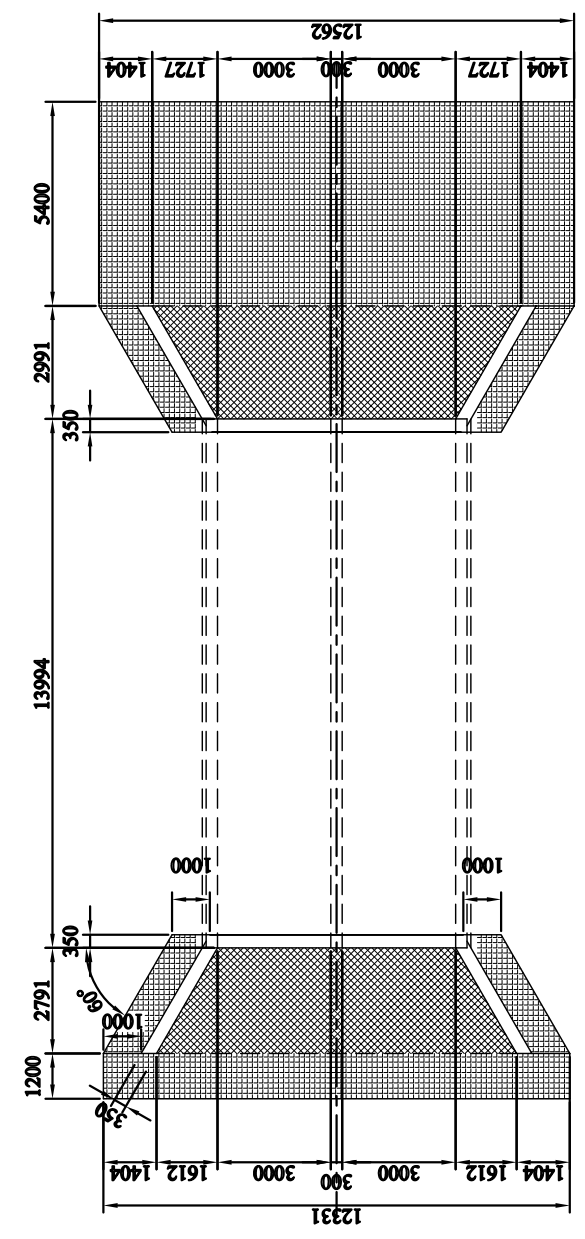
STRUCTURE TYPE	RC BOX CULVERT
LIVE LOAD	AASHTO HS-20-44 W-18.1h
SNOW LOAD	NULL
IMPACT COEFFICIENT	0.3
TOTAL 10.9m	
EFFECTIVE 9.8m	
CARRIAGEWAY 2x3.5m	
SHOULDER 1.0m	
ANGLE OF SKEW	90°
FOUNDATION TYPE	SPREAD
CONCRETE	STRUCTURE f _{ck} = 21.6N/mm ²
REINFORCEMENT BAR	FOUNDATION f _{yk} = 18.6N/mm ²
BEARING CAPACITY OF GROUND	S12S5 q = 200kN/m ²

1 PROFILE OF BOX CULVERT
SCALE 1:200
F-5

CHAINAGE 309_058
GH= 1124.71
PH= 1127.64



2 PLAN OF BOX CULVERT
SCALE 1:200
F-5



Legend

	Leveling Concrete
	Masonry
	Gravel

3 CROSS SECTION OF BOX CULVERT
SCALE 1:20
F-5

A-A
B-B

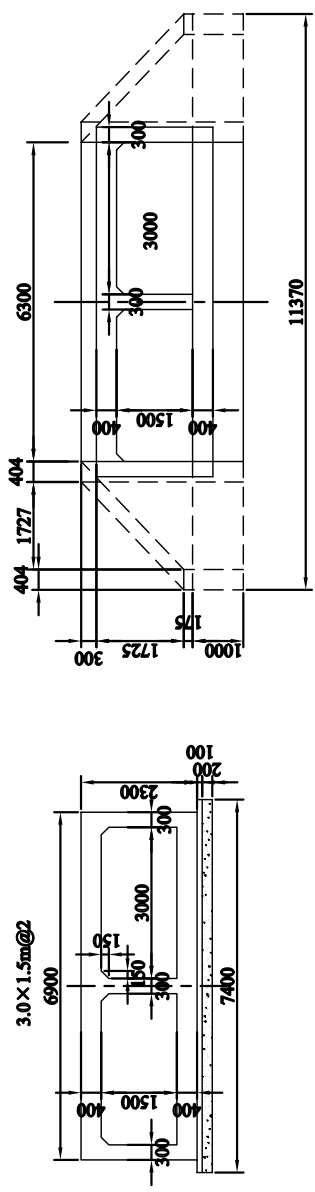


Figure 2-2-3-102 General View of Box Culvert(BC2 Sta.309+058)

THE BASIC DESIGN STUDY ON CONSTRUCTION OF EASTERN ARTERIAL ROAD IN MONGOLIA	
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	DEPARTMENT OF ROADS,
PACIFIC CONSULTANTS INTERNATIONAL JAPAN OVERSEAS CONSULTANTS	MINISTRY OF INFRASTRUCTURE, THE GOVERNMENT OF MONGOLIA
Drawing title	Scale
GENERAL VIEW OF BOX CULVERT BC2 (309 +058) (SECTION-6)	AS SHOWN
Sheet No.	Sheet No.
F-5	F-5
5	5