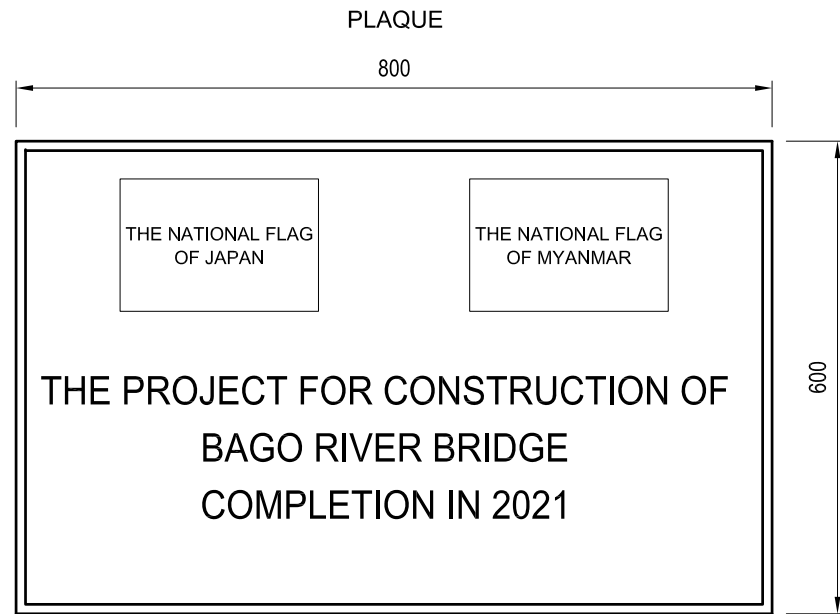
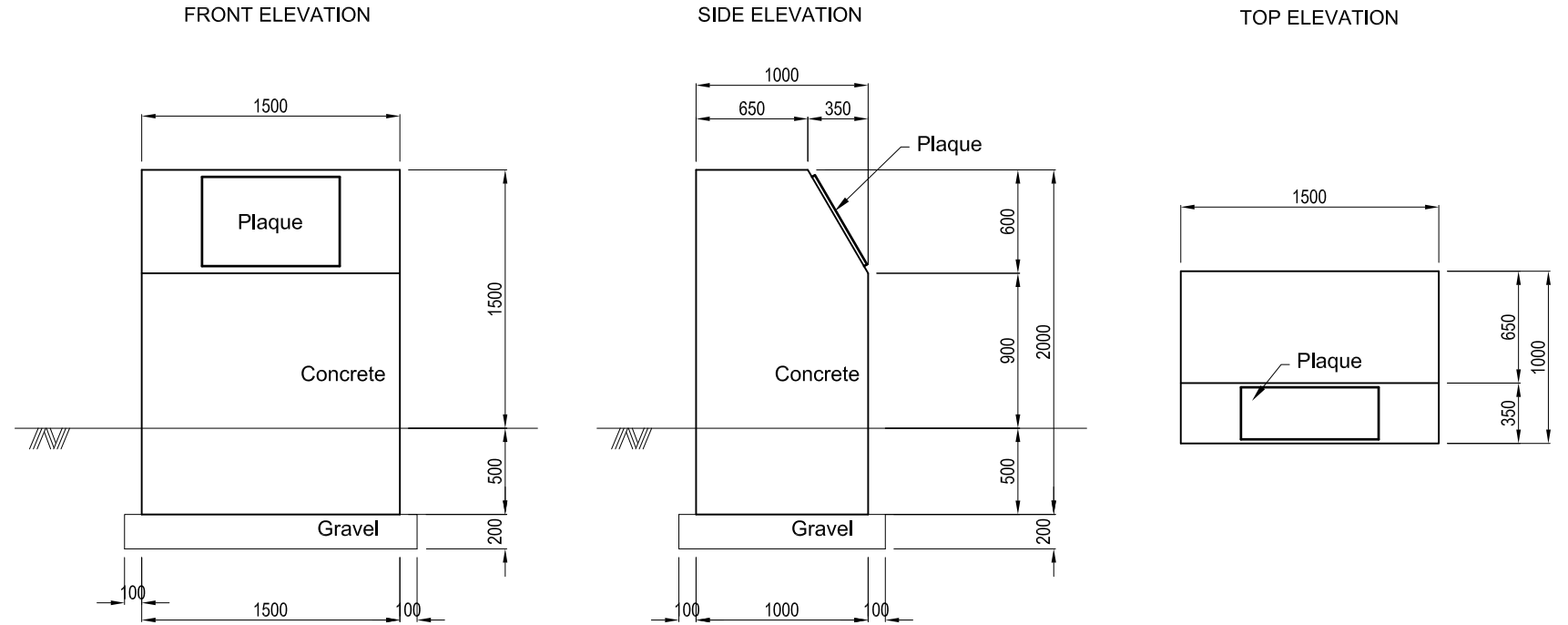


(REFERENCE) MONUMENT AND BRIDGE RECORD

MONUMENT

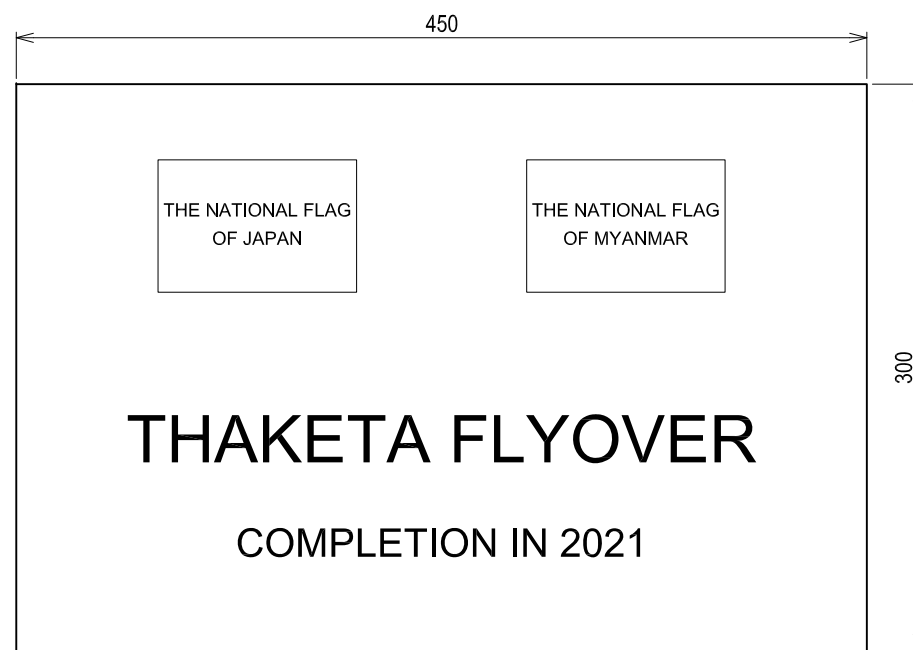


Note) Design & sentence shall be confirmed to the Engineer during construction period.



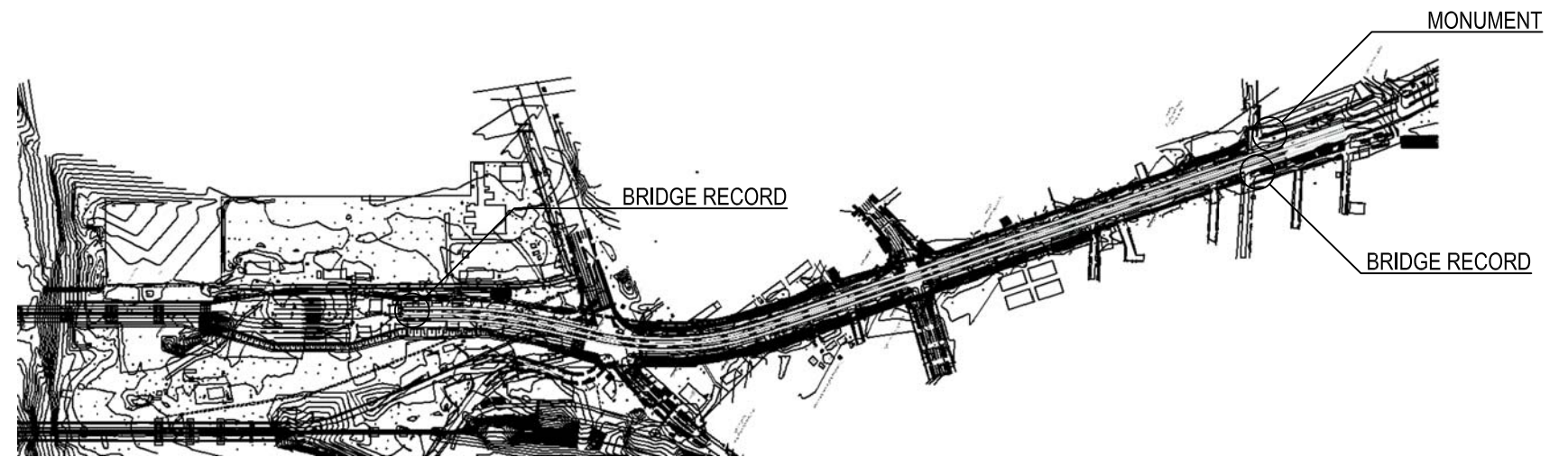
Note) Design and details of monument shall be confirmed to the Engineer during construction period.

BRIDGE RECORD



Note) Design & sentence shall be confirmed to the Engineer during construction period.

LOCATION



Note) Location for monument and bridge record shall be confirmed to the Engineer during construction period.

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	T. HAYAKAWA	<i>T. Hayakawa</i>	29 Sep. 2017	(REFERENCE) MONUMENT AND BRIDGE RECORD	3
				T. HAYAKAWA	<i>T. Hayakawa</i>	3 Oct. 2017		DWG No.
				Y. SANO	<i>Y. Sano</i>	6 Oct. 2017		P3-REF-0025

(REFERENCE) NETWORK PLAN

Primary Control Point By GPS

Point No	Easting	Northing	Elevation
GPS 01	205,842.773	1,857,184.685	5.698
GPS 011	205,760.156	1,857,254.692	5.543
GPS 02	205,321.737	1,857,693.657	4.426
GPS 021	205,410.480	1,857,584.129	4.262
GPS 03	204,535.795	1,859,088.346	4.115
GPS 031	204,453.920	1,859,180.786	3.874
GPS 04	204,274.946	1,859,592.673	5.344
GPS 041	204,205.987	1,859,475.724	5.066
GPS 05	203,521.369	1,860,268.348	4.914
GPS 051	203,458.184	1,860,271.486	5.105

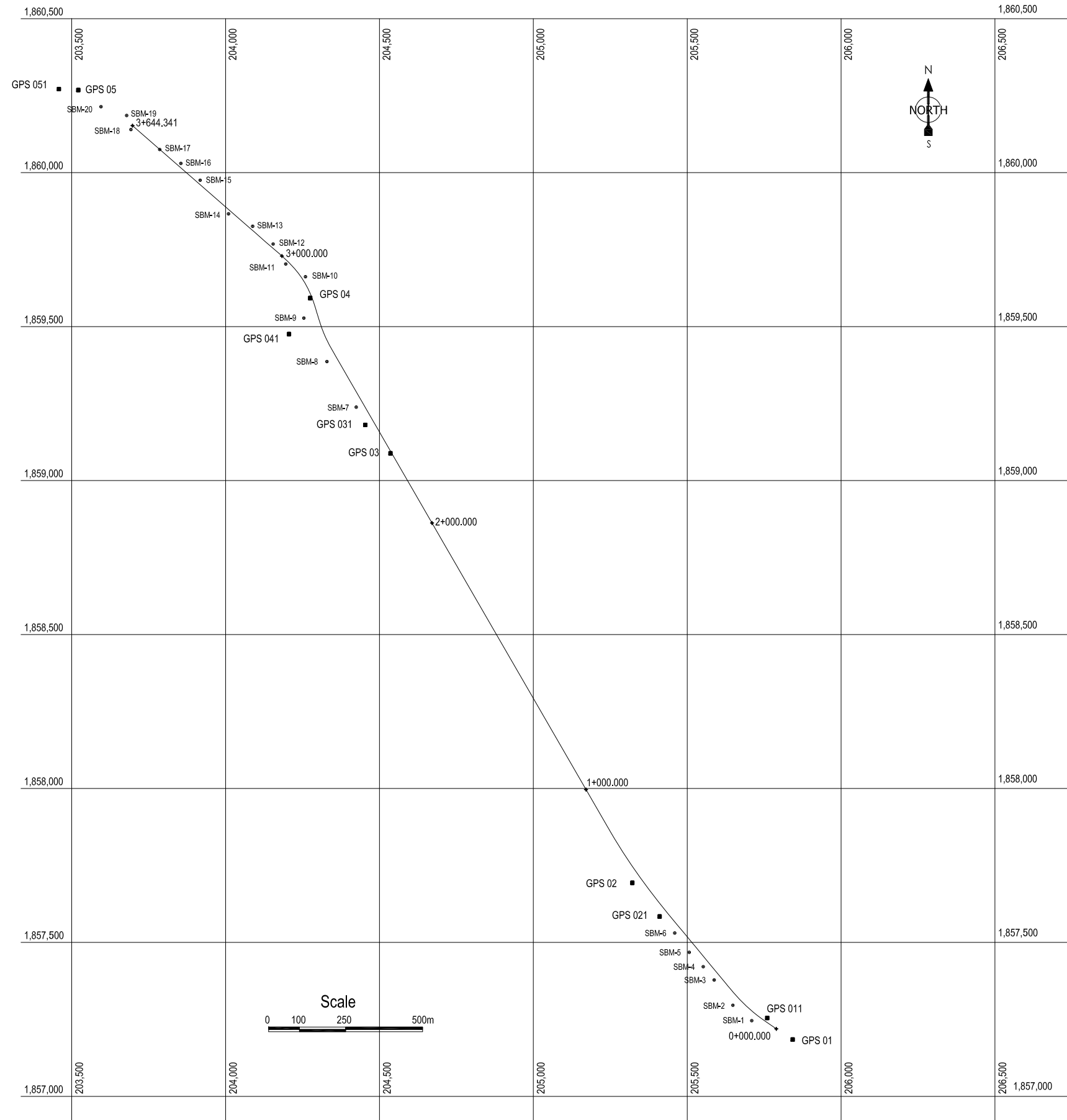
Secondary Control Point By TS

Point No	Easting	Northing	Elevation
SBM-1	205,709.674	1,857,245.921	4.664
SBM-2	205,648.458	1,857,295.972	3.968
SBM-3	205,587.614	1,857,378.019	4.452
SBM-4	205,552.160	1,857,421.174	4.242
SBM-5	205,506.509	1,857,467.950	4.582
SBM-6	205,459.429	1,857,530.545	4.476
SBM-7	204,424.427	1,859,238.491	4.324
SBM-8	204,329.282	1,859,386.470	4.361
SBM-9	204,254.242	1,859,527.666	4.472
SBM-10	204,259.481	1,859,662.039	5.476
SBM-11	204,195.472	1,859,703.336	4.441
SBM-12	204,154.484	1,859,768.248	4.809
SBM-13	204,087.886	1,859,825.931	4.820
SBM-14	204,009.411	1,859,866.246	4.668
SBM-15	203,917.301	1,859,975.432	4.711
SBM-16	203,854.596	1,860,030.075	4.662
SBM-17	203,785.802	1,860,075.169	5.150
SBM-18	203,692.328	1,860,139.951	4.536
SBM-19	203,678.453	1,860,185.673	4.496
SBM-20	203,595.035	1,860,214.212	4.526

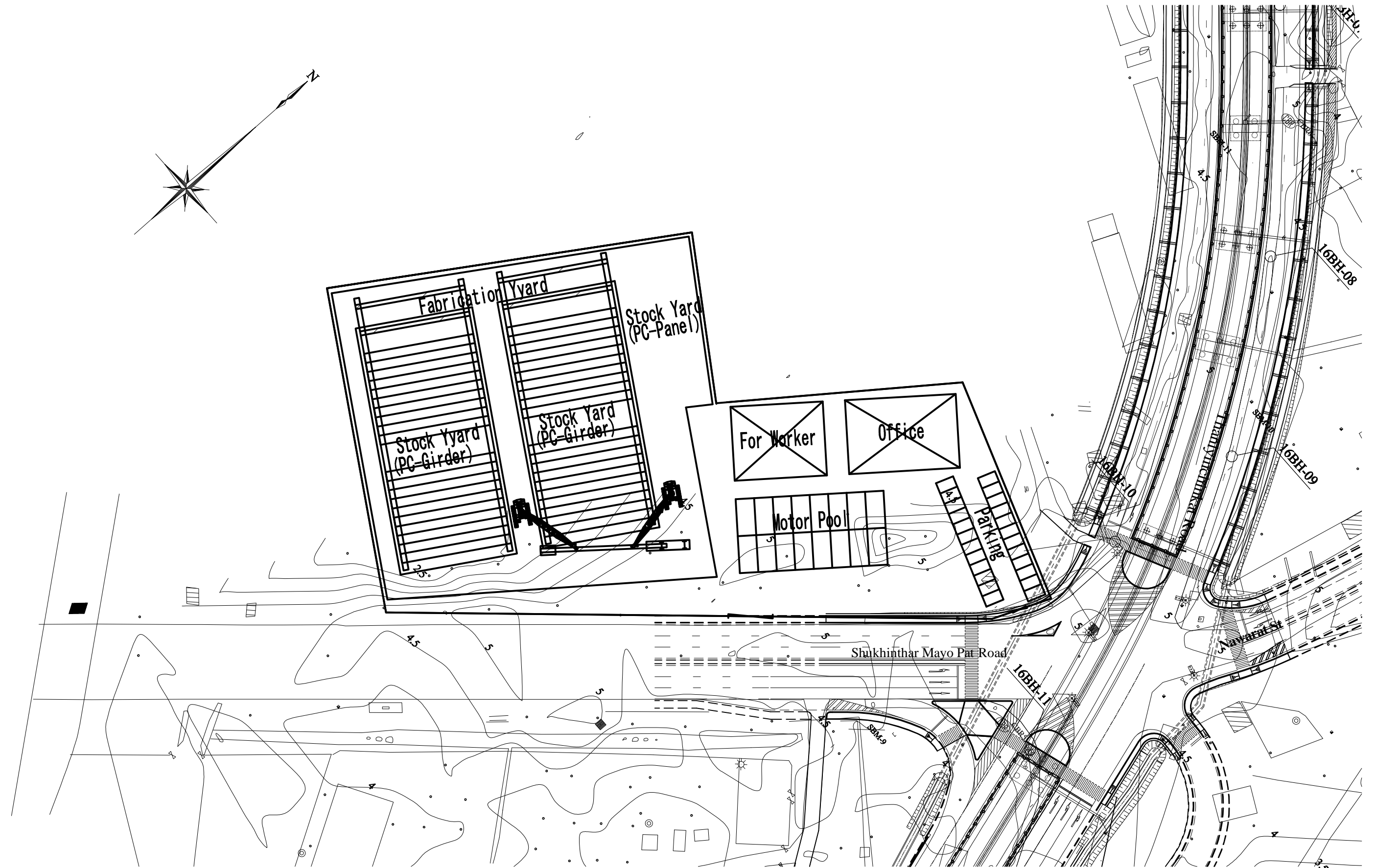
Elevation : Direct Leveling above Mean Sea Level

Existing Control Points from SD

Point No	Easting	Northing	Elevation
GCP 08	204,426.731	1,867,438.719	—
SD 2	197,289.025	1,863,904.781	—
BM76097	214,396.8	1,851,646.3	23.895



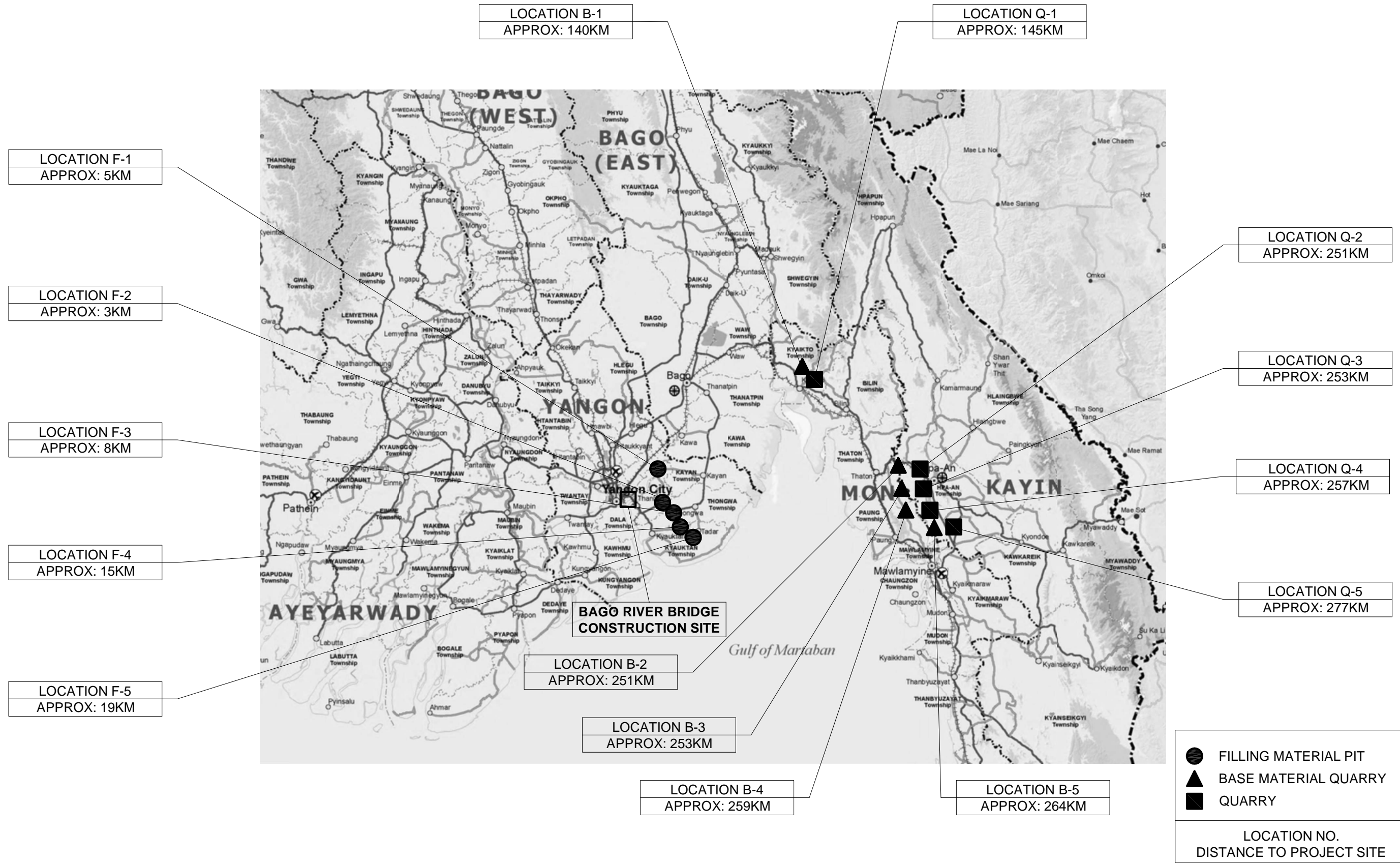
(REFERENCE) GENERAL LAYOUT OF CONSTRUCTION YARD



NOTE: The construction yard in this drawing is a candidate site. The Contractor shall confirm the availability of the construction yards to The Client.

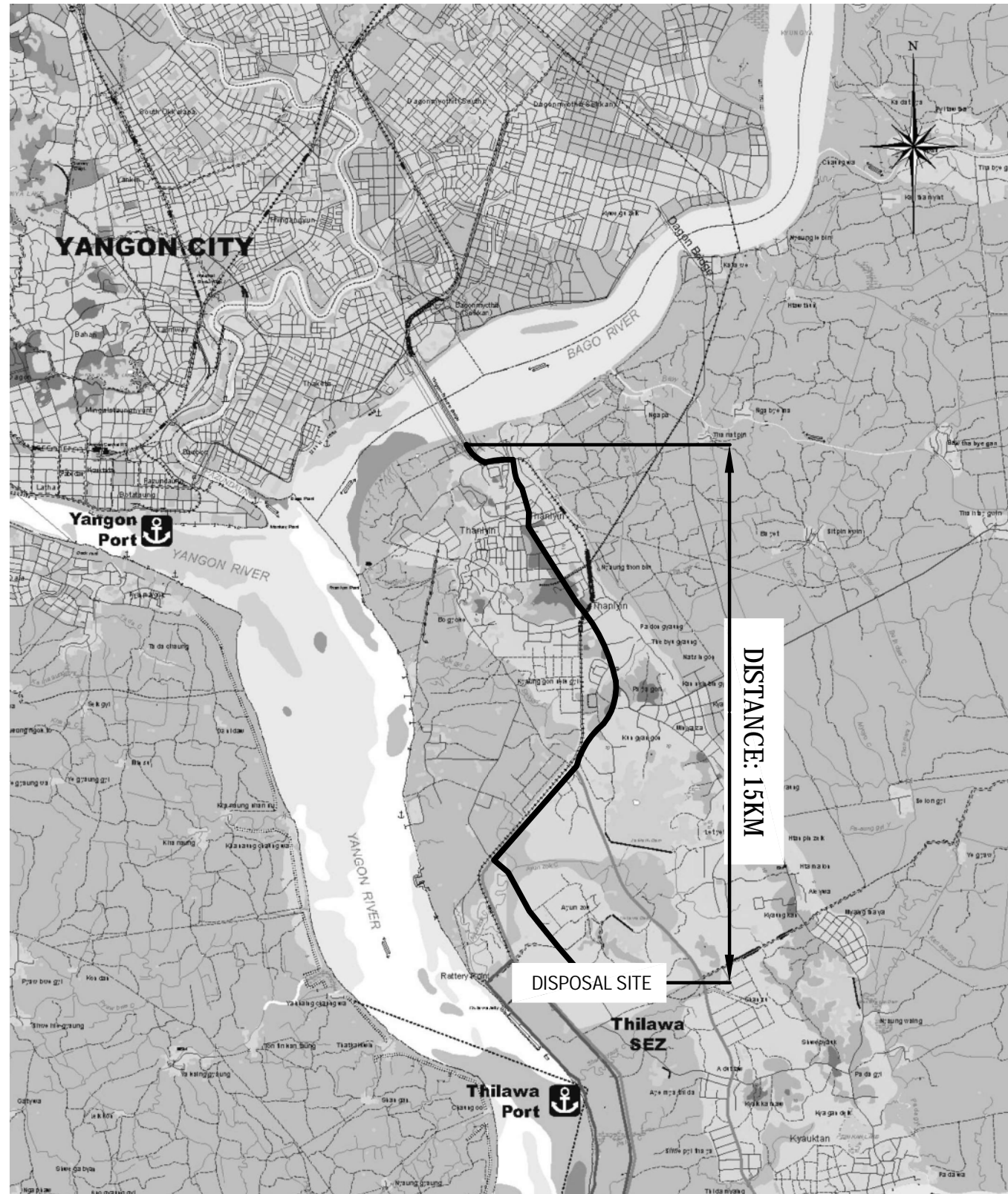
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE (REFERENCE) GENERAL LAYOUT OF CONSTRUCTION YARD	PACKAGE	
				PREPARED BY	Y. SUZUKI			29 Sep. 2017	3
				CHECKED BY	T. HAYAKAWA			3 Oct. 2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct. 2017	P3-REF-0027

(REFERENCE) QUARRY SITE LOCATION

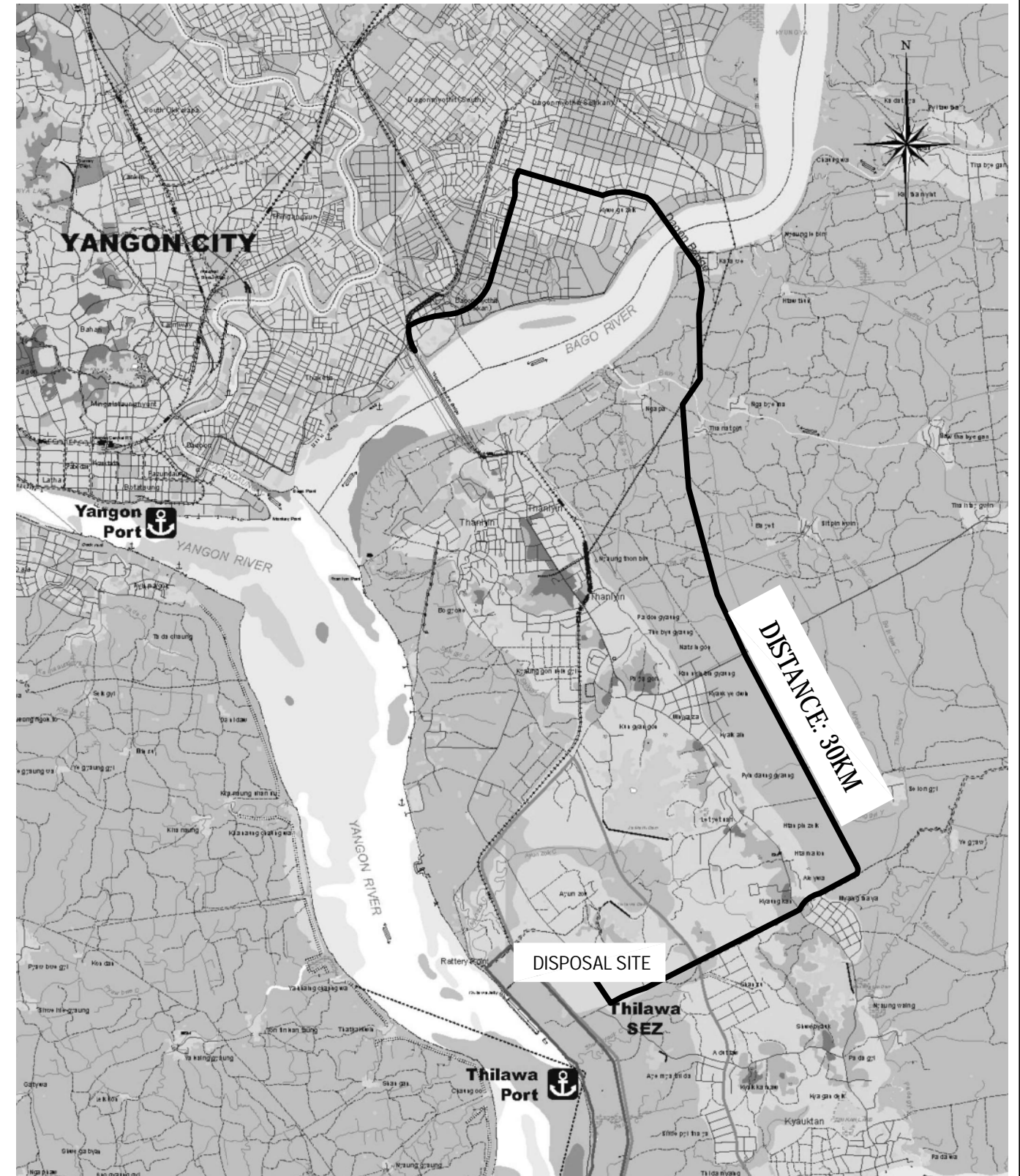


PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE (REFERENCE) QUARRY SITE LOCATION	PACKAGE 3 DWG No. P3-REF-1001	
				PREPARED BY	T. HAYAKAWA				4 Aug.2017
				CHECKED BY	T. HAYAKAWA				14 Aug.2017
			APPROVED BY	Y. SANO		16 Aug.2017			

(REFERENCE) LAND TRANSPORTATION ROUTE TO WASTE DISPOSAL SITE IN THILAWA SEZ



LAND ROUTE 1
FROM PACKAGE 1 TO DIPOSAL SITE

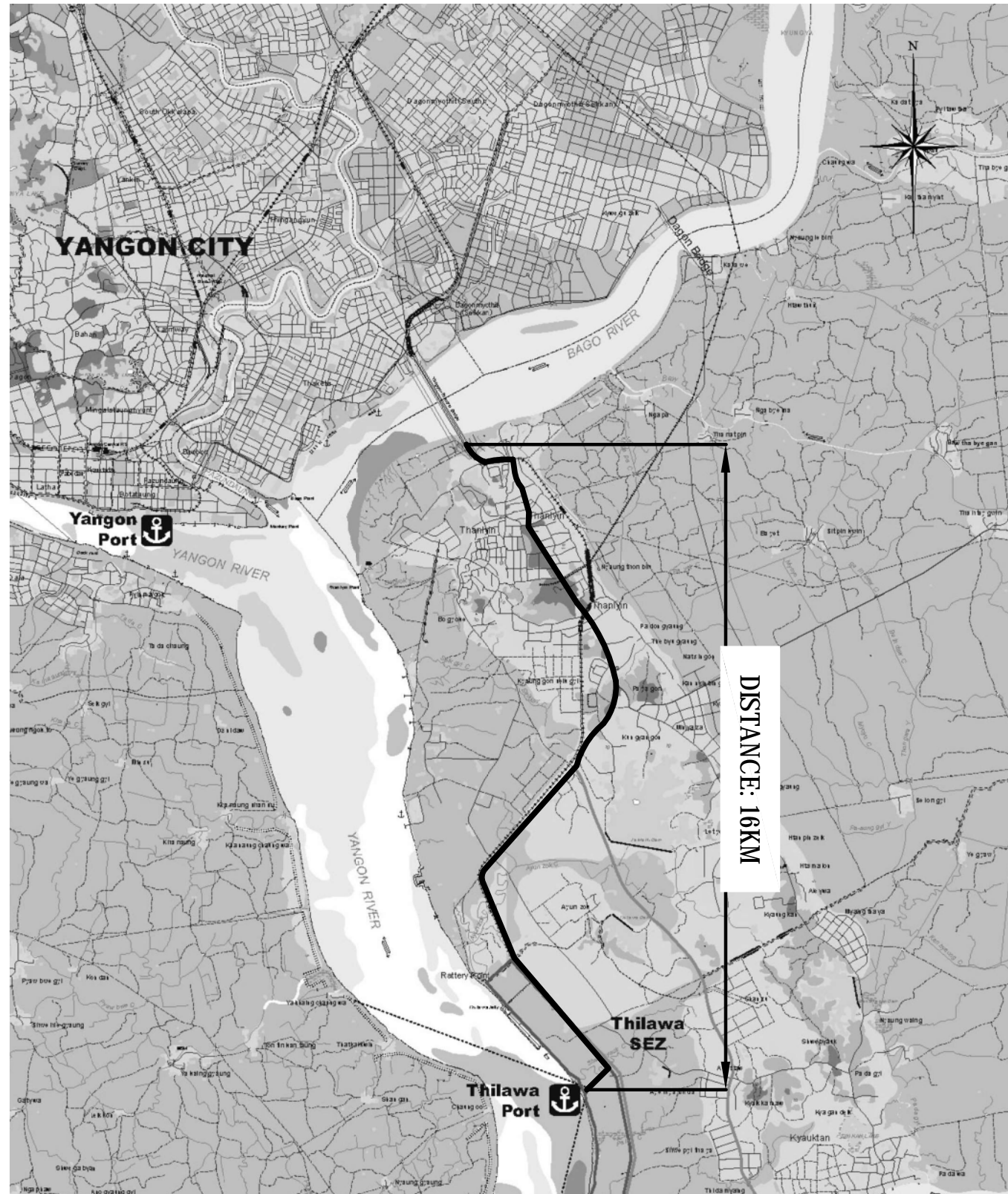


LAND ROUTE 2
FROM PACKAGE 2 & 3 TO DIPOSAL SITE

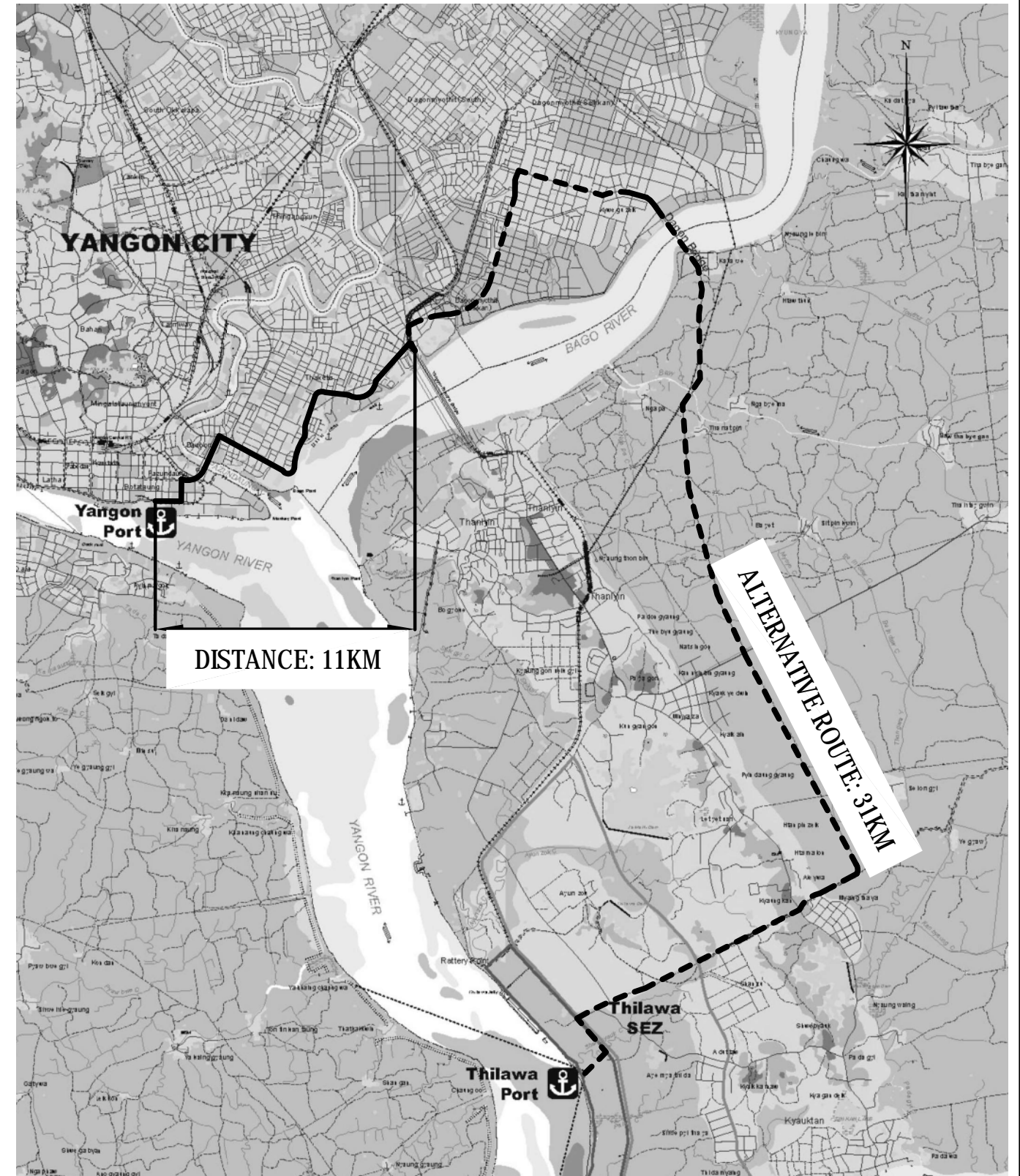
NOTE: The site shown in this drawing is a candidate for the waste disposal site. The contractor may change the waste disposal site according to Engineer's instruction.

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME T. HAYAKAWA SIGNATURE T. HAYAKAWA DATE 4 Aug.2017 14 Aug.2017 16 Aug.2017	DRAWING TITLE (REFERENCE) LAND TRANSPORTATION ROUTE TO WASTE DISPOSAL SITE IN THILAWA SEZ	PACKAGE 3 DWG No. P3-REF-1002
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(REFERENCE) LAND TRANSPORTATION ROUTE FROM LANDING PORT



LAND ROUTE 1
FROM THILAWA PORT TO PACKAGE 1



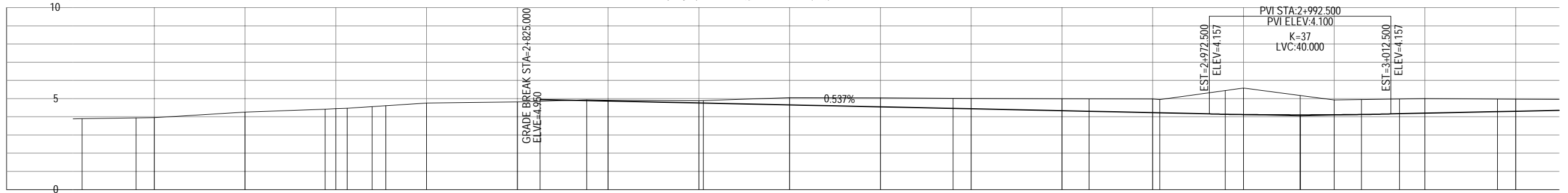
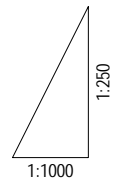
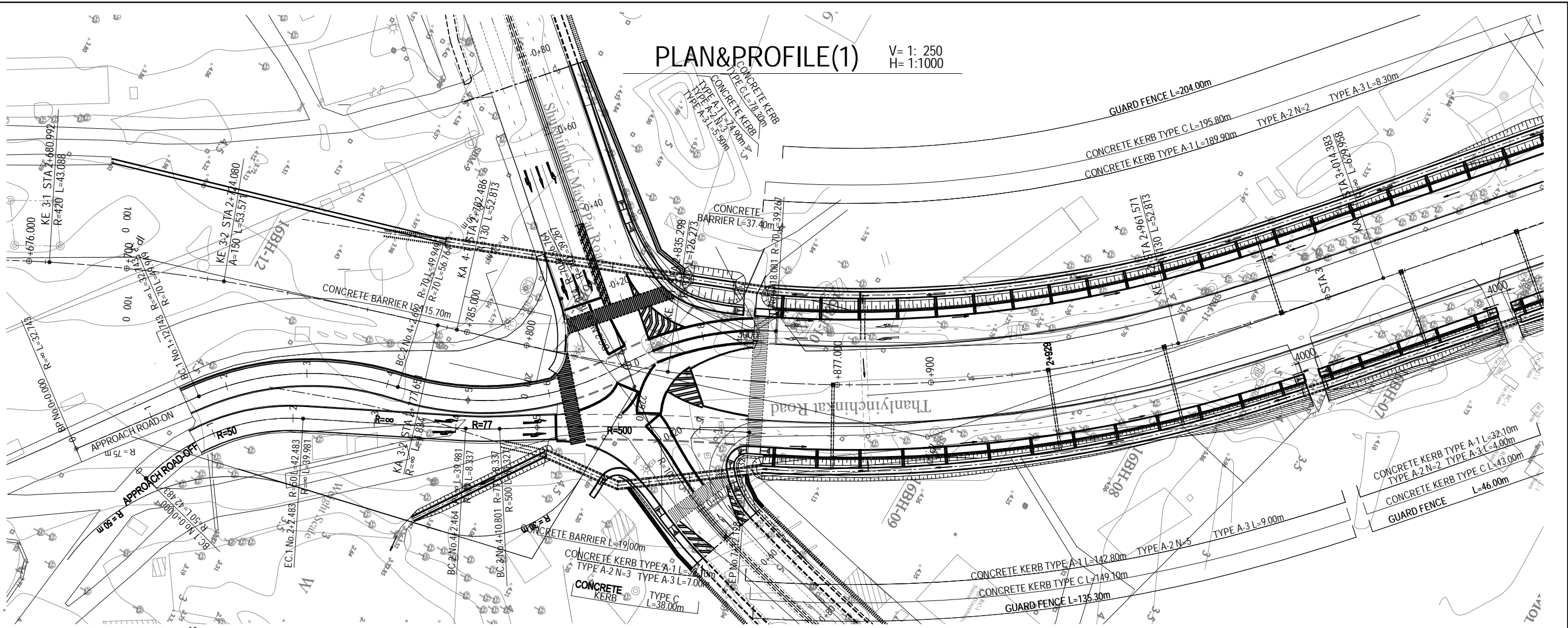
LAND ROUTE 2
FROM YANGON PORT TO PACKAGE 2 & 3
(FROM THILAWA PORT TO PACKAGE 2 & 3)

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE (REFERENCE) LAND TRANSPORTATION ROUTE FROM LANDING PORT	PACKAGE	
				PREPARED BY	T. HAYAKAWA			4 Aug.2017	3
				CHECKED BY	T. HAYAKAWA			14 Aug.2017	DWG No.
APPROVED BY	Y. SANO		16 Aug.2017		P3-REF-1003				

F. REFERENCE DRAWING (MOC PORTION)

PLAN&PROFILE(1)

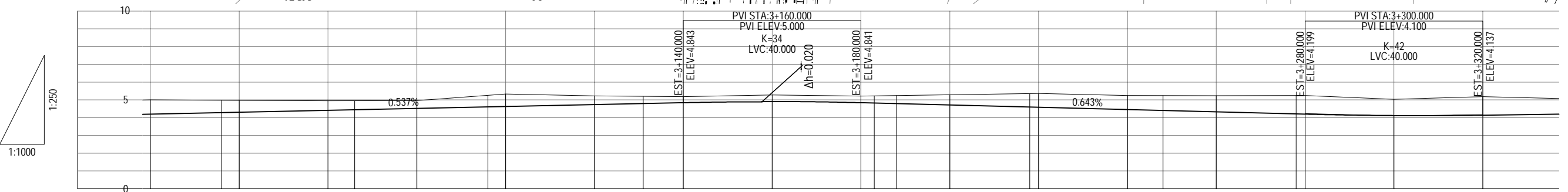
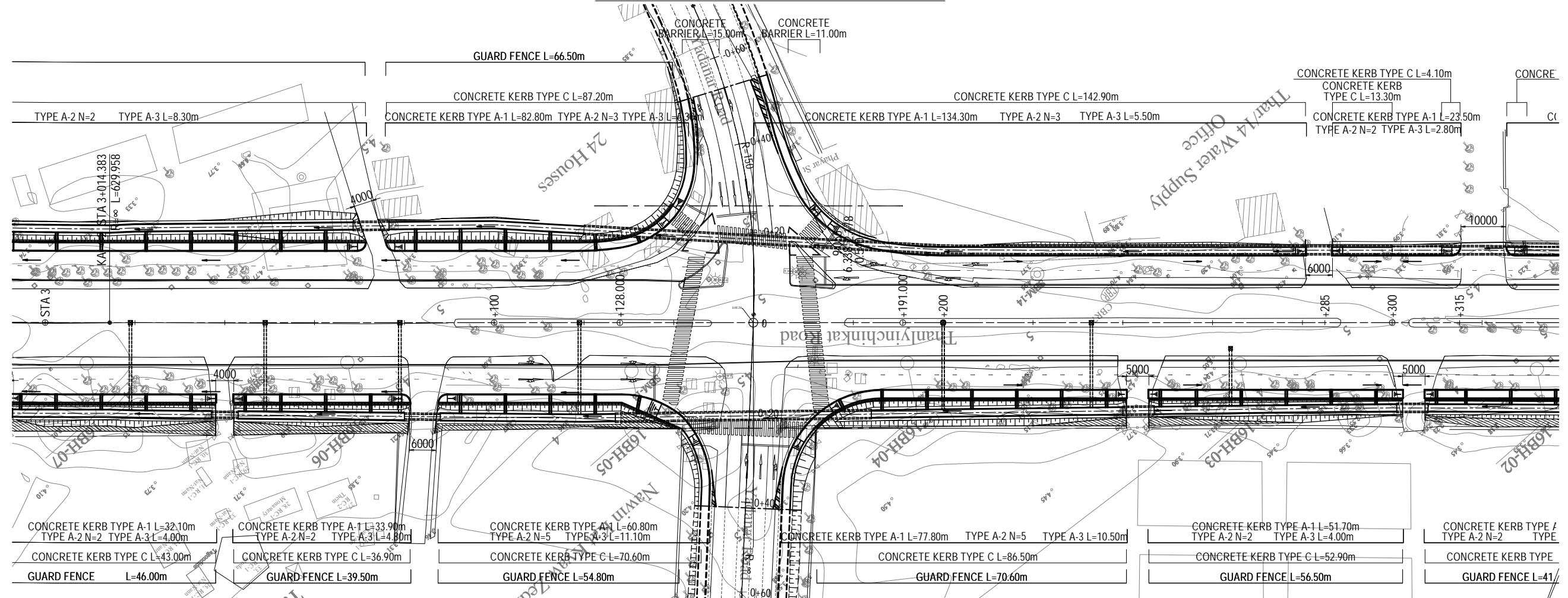
V= 1: 250
H= 1:1000



GRADE	PROPOSED HEIGHT	EXISTING HEIGHT	STATION	SUPER ELEVATION	CURVE ELEMENTS
		3.90	KE 3-2		L=53.571 A=150.000
		3.94	+736.000		
		3.95	+740.000		
		4.26	+760.000		R=∞ L=4.834
		4.42	KA 3-2		
		4.45	+780.000		A=130.000 L=52.813
		4.47	KA 4-1		
		4.56	+788.000		IP = IP.4 IA = 32-03.54 CL = 231.898 R=320.000 L=126.273
		4.61	+791.000		
		4.75	+800.000		A=130.000 L=52.813
		4.82	+820.000		
		4.86	+825.000		I=0.537% L=167.500
		4.88	PH1 4.864		
		4.93	PH1 4.885		A=130.000 L=52.813
		4.91	PH1 4.866		
		4.88	PH1 4.762		I=0.537% L=167.500
		4.89	PH1 4.757		
		5.05	PH1 4.654		A=130.000 L=52.813
		5.04	PH1 4.517		
		5.02	PH1 4.461		I=0.537% L=167.500
		5.01	PH1 4.440		
		4.99	PH1 4.332		A=130.000 L=52.813
		4.99	PH1 4.300		
		4.98	PH1 4.225		I=0.537% L=167.500
		4.95	PH1 4.216		
		5.44	PH1 4.140		A=130.000 L=52.813
		5.58	PH1 4.125		
		5.17	PH1 4.104		I=0.537% L=167.500
		4.92	PH1 4.111		
		4.95	PH1 4.128		A=130.000 L=52.813
		4.98	PH1 4.168		
		5.00	PH1 4.198		I=0.537% L=167.500
		4.98	PH1 4.284		
		4.97	PH1 4.305		

PLAN&PROFILE(2)

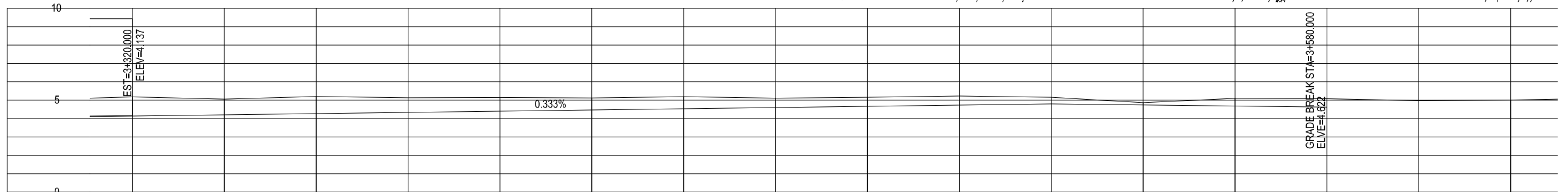
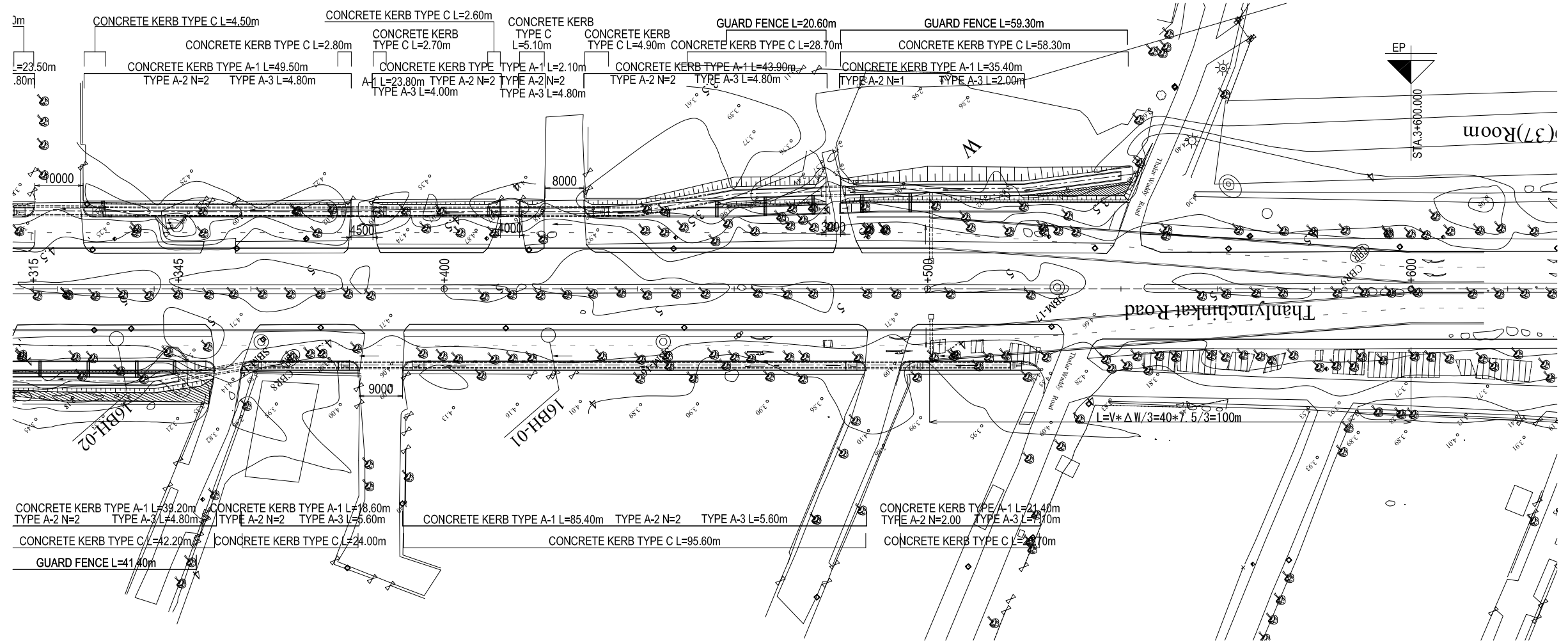
V= 1: 250
H= 1:1000



GRADE	$I=0.537\%$ $L=167.500$																$I=0.643\%$ $L=140.000$															
PROPOSED HEIGHT	PH1 4.198	PH1 4.284	PH1 4.305	PH1 4.413	PH1 4.445	PH1 4.520	PH1 4.606	PH1 4.628	PH1 4.735	PH1 4.784	PH1 4.843	PH1 4.881	PH2 4.811	PH2 4.841	PH2 4.822	PH2 4.790	PH2 4.713	PH2 4.697	PH2 4.584	PH2 4.456	PH2 4.404	PH2 4.327	PH2 4.211	PH2 4.169	PH2 4.119	PH2 4.137						
EXISTING HEIGHT	5.00	4.98	4.97	4.95	4.95	4.96	5.26	5.33	5.22	5.20	5.18	5.28	5.21	5.22	5.24	5.29	5.35	5.36	5.25	5.25	5.24	5.25	5.25	5.03	5.18							
STATION	+20.000	+36.000	+40.000	+60.000	+66.000	+80.000	+96.000	+100.000	+120.000	+131.000	+140.000	+160.000	+180.000	+183.000	+188.000	+200.000	+218.000	+220.000	+240.000	+248.000	+260.000	+278.000	+280.000	+300.000	+320.000							
SUPER ELEVATION	-																															
CURVE ELEMENTS	R=∞ L=629.958																															

PLAN&PROFILE(3)

V= 1: 250
H= 1:1000



GRADE																
PROPOSED HEIGHT	5.18-PH2 4.137	5.06-PH2 4.203	5.20-PH2 4.270	5.13-PH2 4.336	5.15-PH2 4.403	5.12-PH2 4.469	5.19-PH2 4.536	5.11-PH2 4.602	5.16-PH2 4.669	5.23-PH2 4.735	5.16-PH2 4.802	4.87-PH2 4.742	5.10-PH2 4.682	5.08-PH2 4.622	4.98	5.01
EXISTING HEIGHT																
STATION	+320.000	+340.000	+360.000	+380.000	+400.000	+420.000	+440.000	+460.000	+480.000	+500.000	+520.000	+540.000	+560.000	+580.000	+600.000	+620.000
SUPER ELEVATION	-----															
CURVE ELEMENTS	$R=\infty$ $L=629.958$															

PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
 JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
 REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO., LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

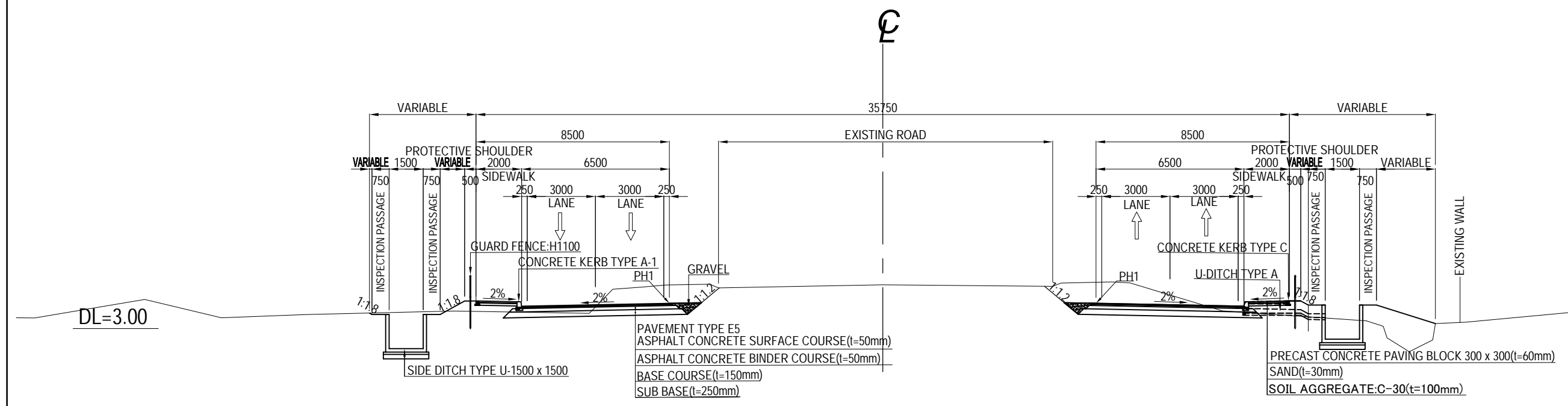
	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep. 2017
CHECKED BY	T. HAYAKAWA		3 Oct. 2017
APPROVED BY	Y. SANO		6 Oct. 2017

DRAWING TITLE
PLAN&PROFILE(3)
V= 1: 250,H= 1:1000

PACKAGE
0
DWG No.
P0-RD-0120

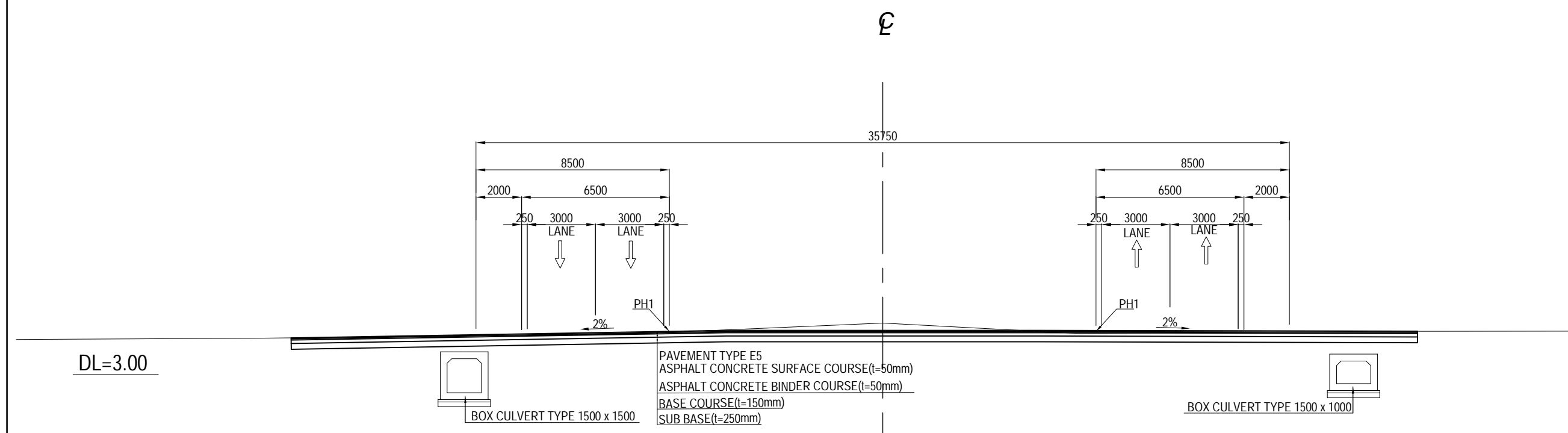
TYPICAL CROSS SECTION (1) S=1:200

℄



"SHUKHINTHAR INTERSECTION - YADANAR INTERSECTION" SECTION

℄

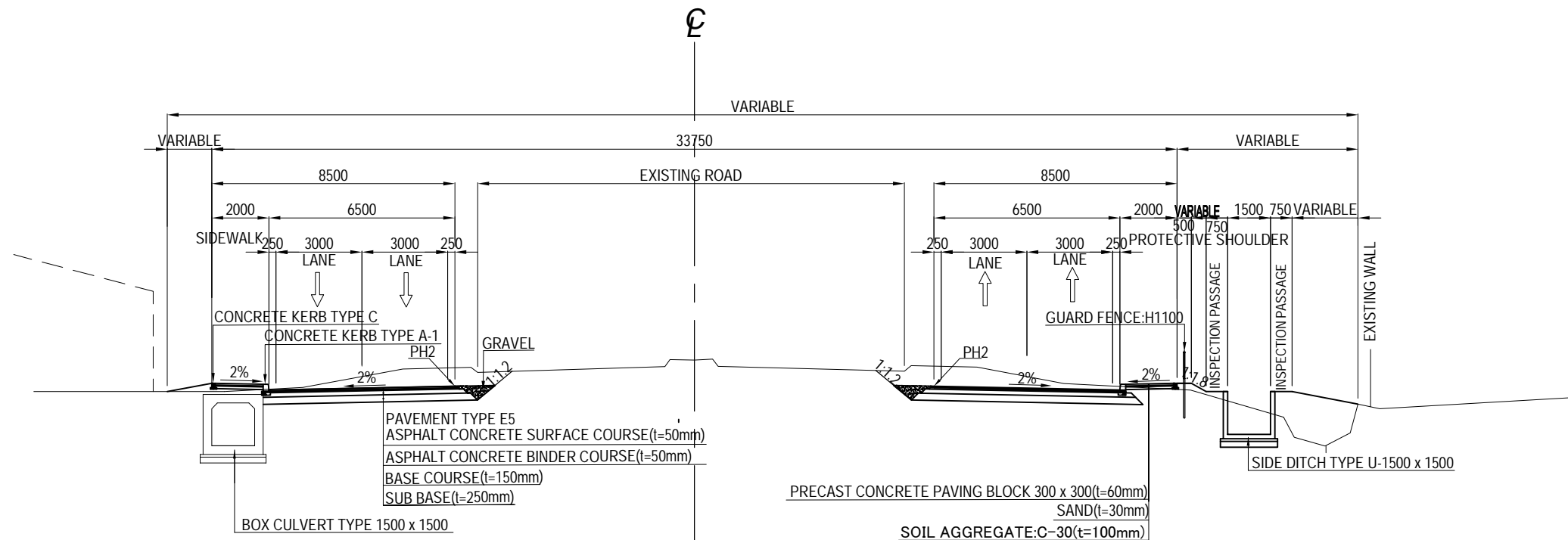


INTERSECTION

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM 	NAME	SIGNATURE	DATE	DRAWING TITLE TYPICAL CROSS SECTION (1) S=1:200	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	PO-RD-0200

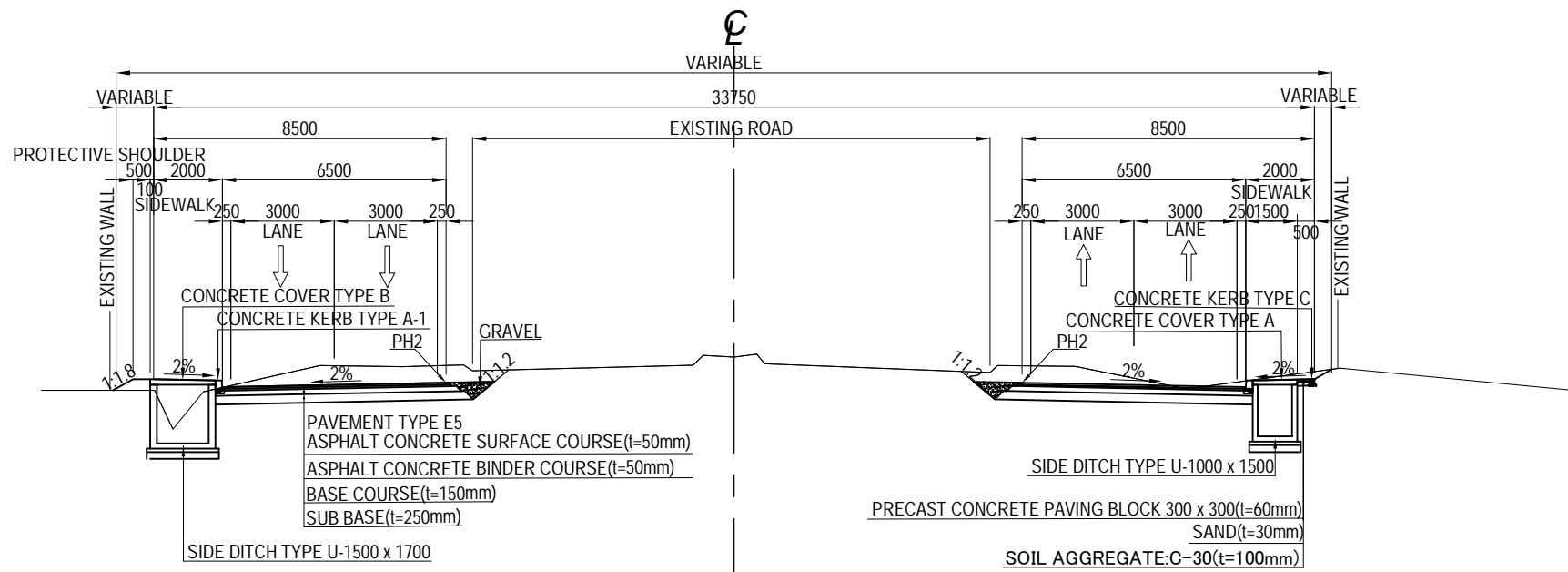
TYPICAL CROSS SECTION (2) S=1:200

DL=3.00



"NEAR THE WATER SUPPLY OFFICE" SECTION

DL=3.00

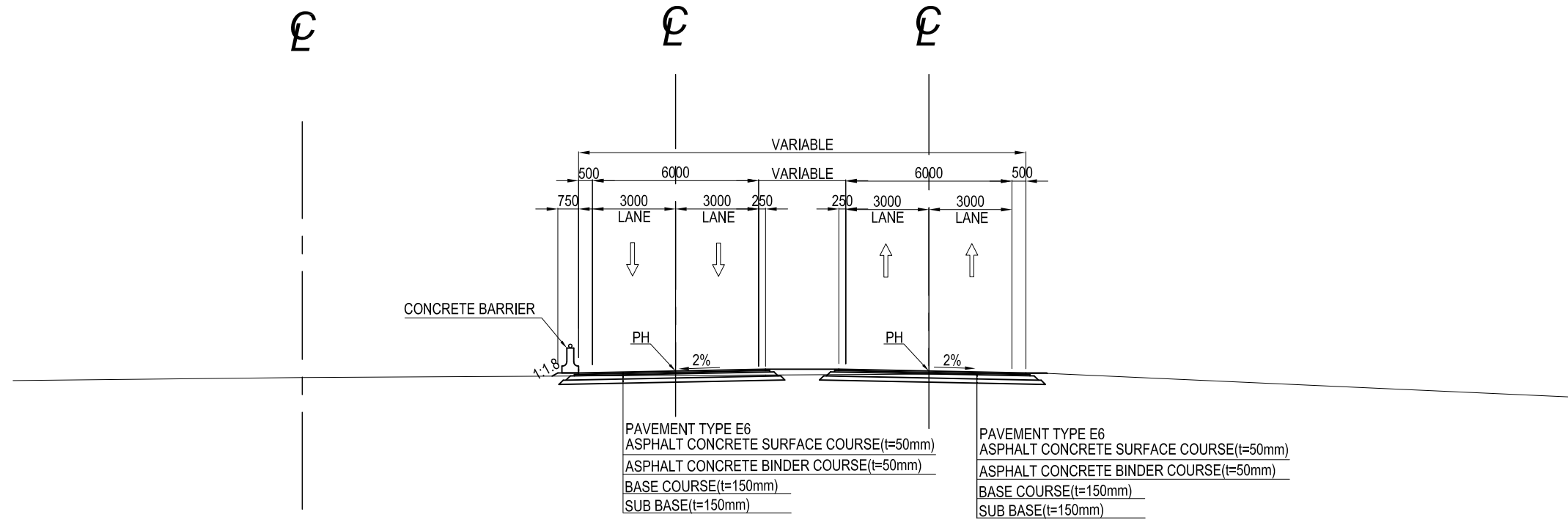


"MECHANICALLY-STABILISED EARTH WALL" SECTION

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE TYPICAL CROSS SECTION (2) S=1:200	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P3-RD-0210

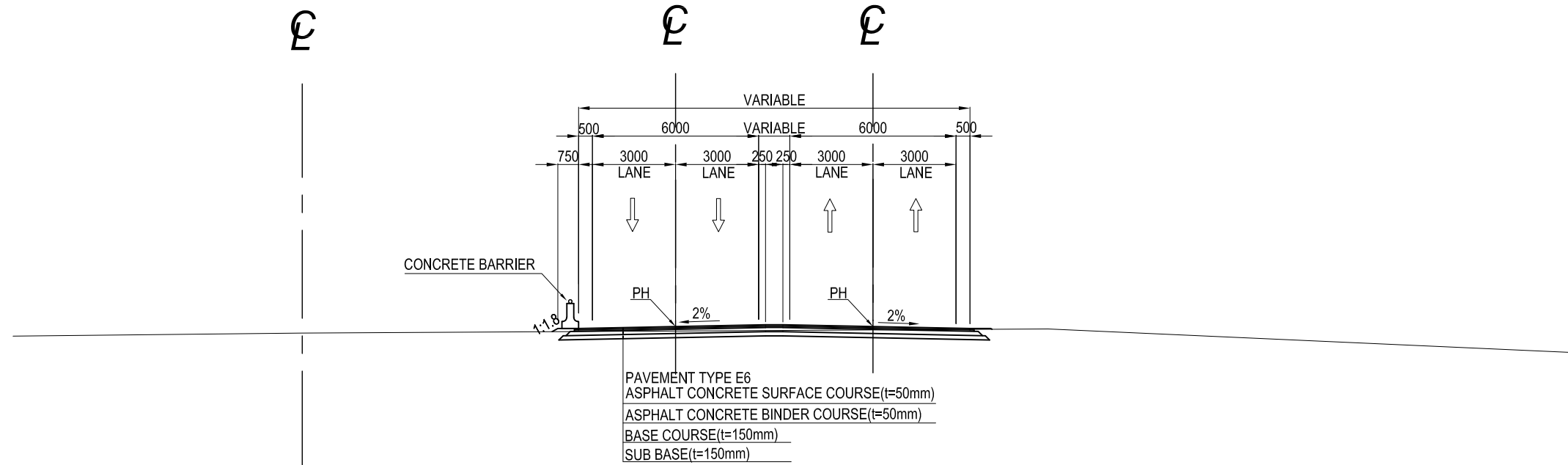
TYPICAL CROSS SECTION (3) S=1:200

DL=3.00



"SHUKHINTHAR INTERSECTION TEMPORARY ROAD" SEPARATION SECTION

DL=3.00

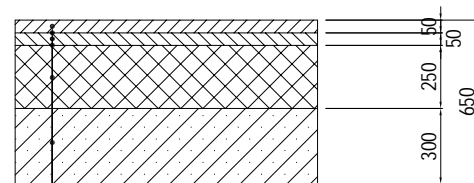


"SHUKHINTHAR INTERSECTION TEMPORARY ROAD" SECTION

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE TYPICAL CROSS SECTION (3) S=1:200	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep. 2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct. 2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct. 2017	P0-RD-0220

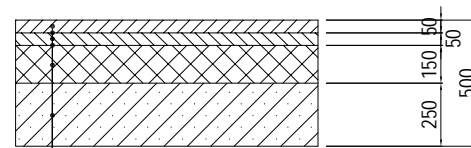
DETAIL OF ASPHALT CONCRETE PAVEMENT S=1:30

Type E3



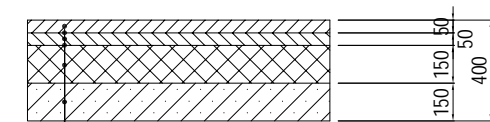
AC SURFACE COURSE (t=50mm)
 TACK COAT 0.4 l/m²
 AC SURFACE BASE (t=50mm)
 PRIME COAT 0.4 l/m²
 BASE COURSE (t=250mm)
 SUB BASE (t=300mm)

Type E5



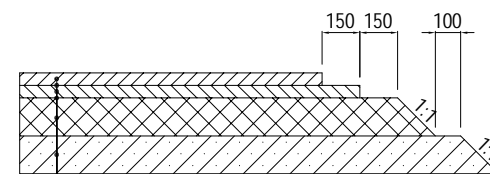
AC SURFACE COURSE (t=50mm)
 TACK COAT 0.4 l/m²
 AC SURFACE BASE (t=50mm)
 PRIME COAT 0.4 l/m²
 BASE COURSE (t=150mm)
 SUB BASE (t=250mm)

Type E6



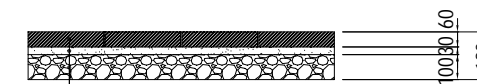
AC SURFACE COURSE (t=50mm)
 TACK COAT 0.4 l/m²
 AC SURFACE BASE (t=50mm)
 PRIME COAT 0.4 l/m²
 BASE COURSE (t=150mm)
 SUB BASE (t=150mm)

END OF PAVEMENT



AC SURFACE COURSE (t=50mm)
 TACK COAT 0.4 l/m²
 AC SURFACE BASE (t=50mm)
 PRIME COAT 0.4 l/m²
 BASE COURSE
 SUB BASE

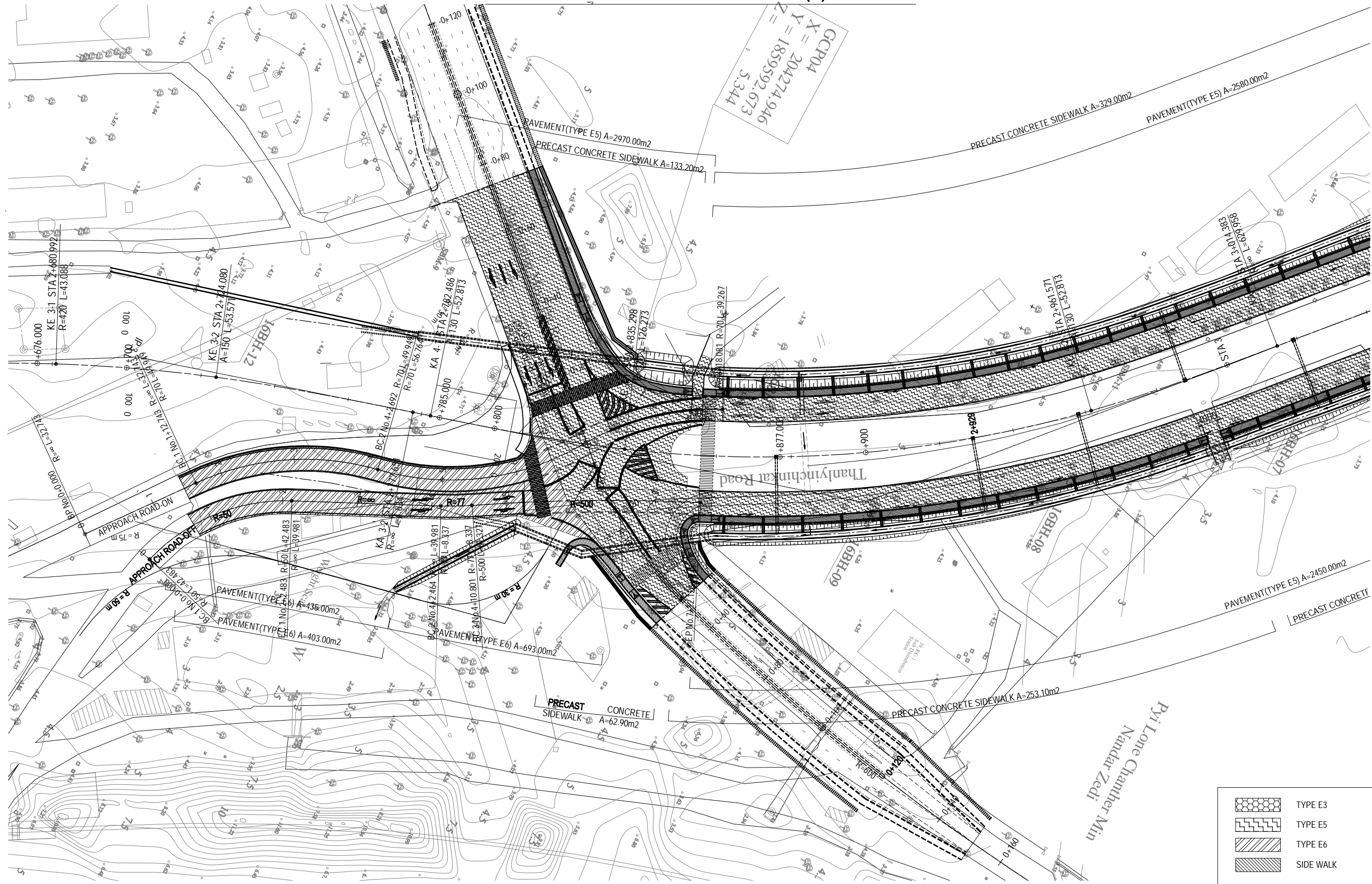
Side Walk



PRECAST CONCRETE PAVING BLOCK (300x300mm x t=60mm)
 SAND(t=30mm)
 SOIL AGGREGATE:C-30(t=100mm)

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.		NAME PREPARED BY K. TACHIBANA CHECKED BY T. HAYAKAWA APPROVED BY Y. SANO	SIGNATURE 	DATE 29 Sep.2017 3 Oct.2017 6 Oct.2017	DRAWING TITLE DETAIL OF ASPHALT CONCRETE PAVEMENT S=1:30	PACKAGE 0 DWG No. P3-RD-0300
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PLAN FOR PAVEMENT TYPE(1) S= 1:1000



	TYPE E3
	TYPE E5
	TYPE E6
	SIDE WALK

PROJECT NAME
 DETAILED DESIGN ON
 BAGO RIVER BRIDGE
 CONSTRUCTION PROJECT

FINANCED BY
 JAPAN INTERNATIONAL
 COOPERATION AGENCY

COUNTERPART
 REPUBLIC OF THE UNION OF MYANMAR
 MINISTRY OF CONSTRUCTION
 DEPARTMENT OF BRIDGE

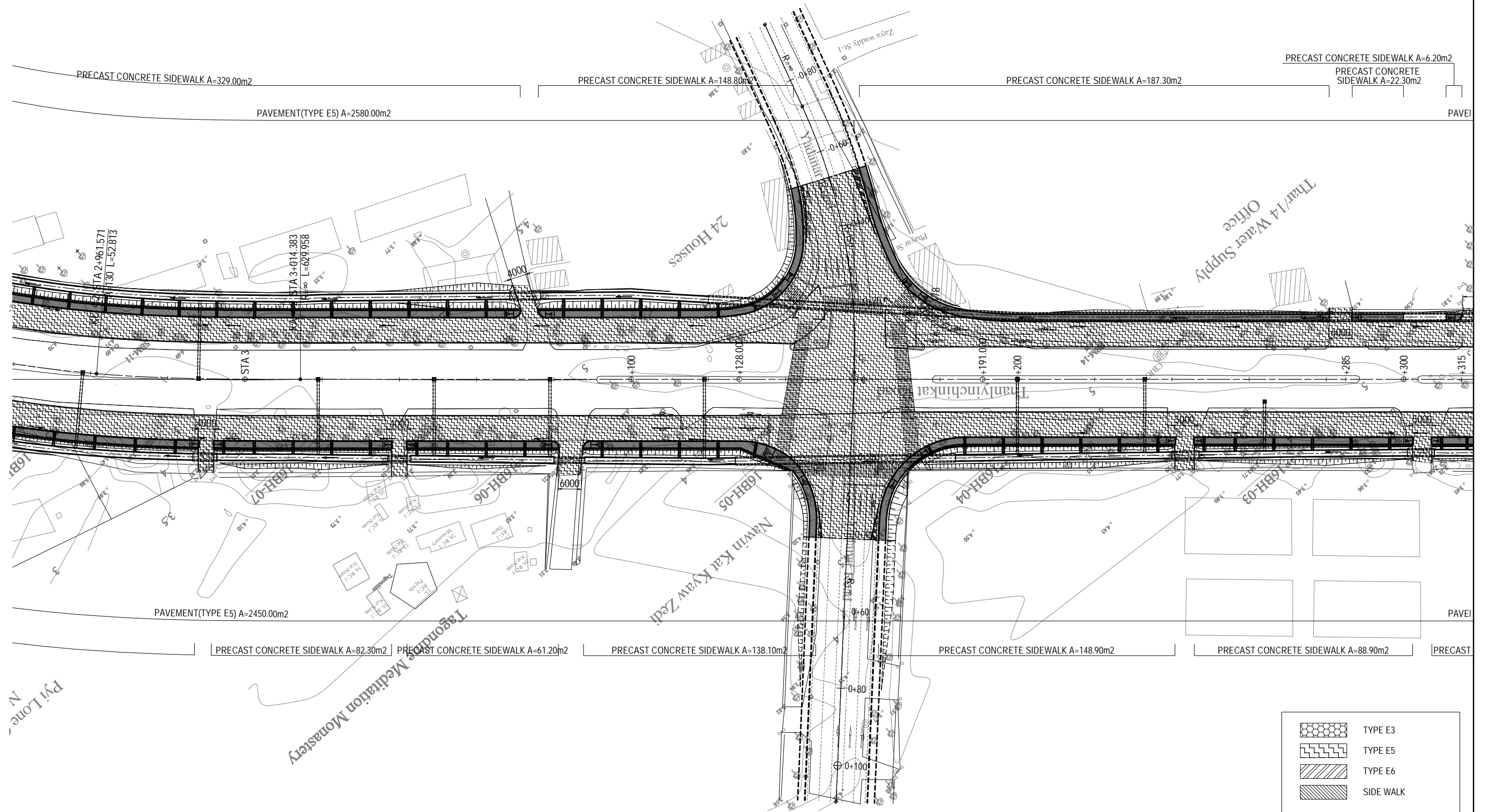
JICA STUDY TEAM
 NIPPON KOEI CO., LTD.
 ORIENTAL CONSULTANTS GLOBAL CO., LTD.
 METROPOLITAN EXPRESSWAY COMPANY LIMITED
 CHODAI CO., LTD.
 NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

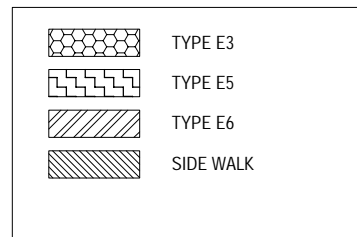
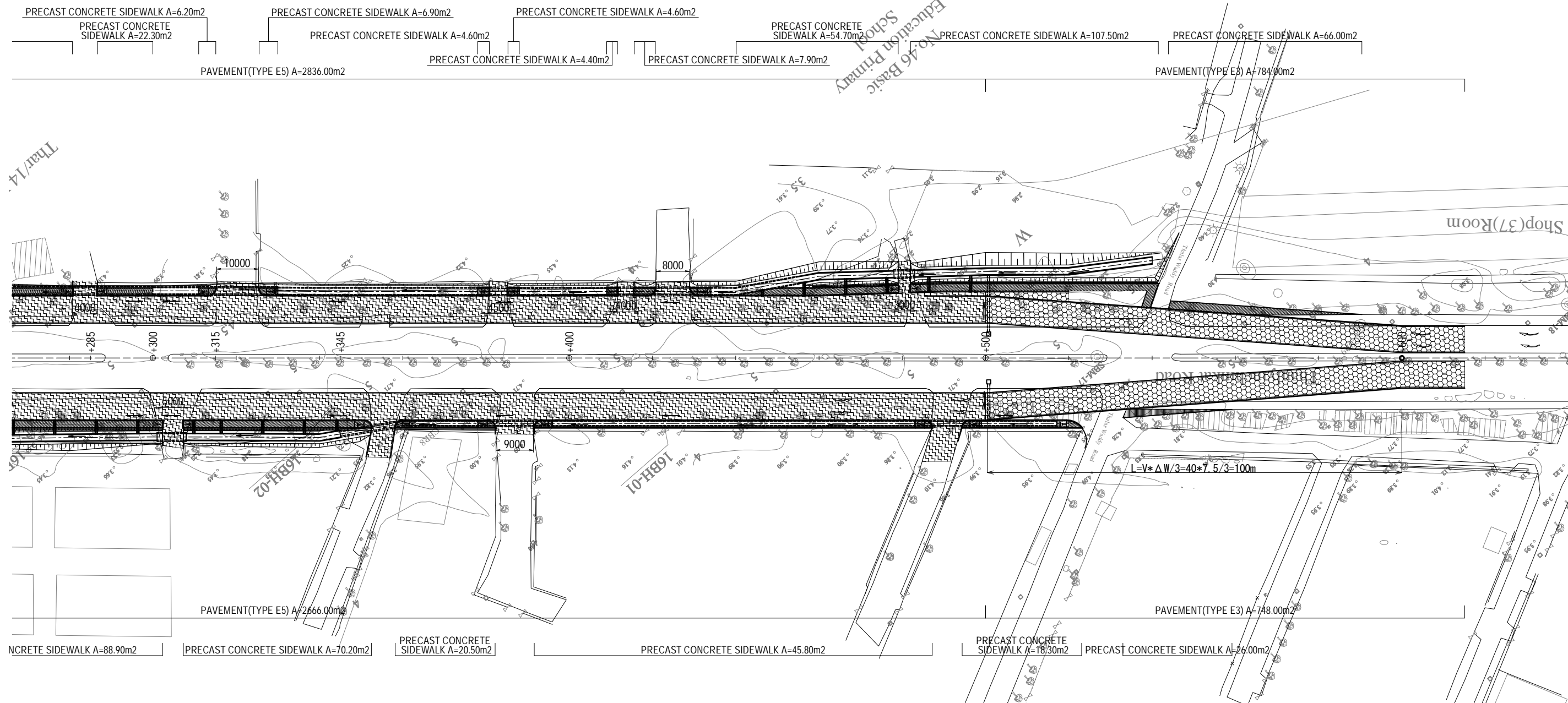
DRAWING TITLE
 PLAN FOR PAVEMENT TYPE(1)
 S=1:1000

PACKAGE
0
DWG No.
P3-RD-0310

PLAN FOR PAVEMENT TYPE(2) S= 1:1000

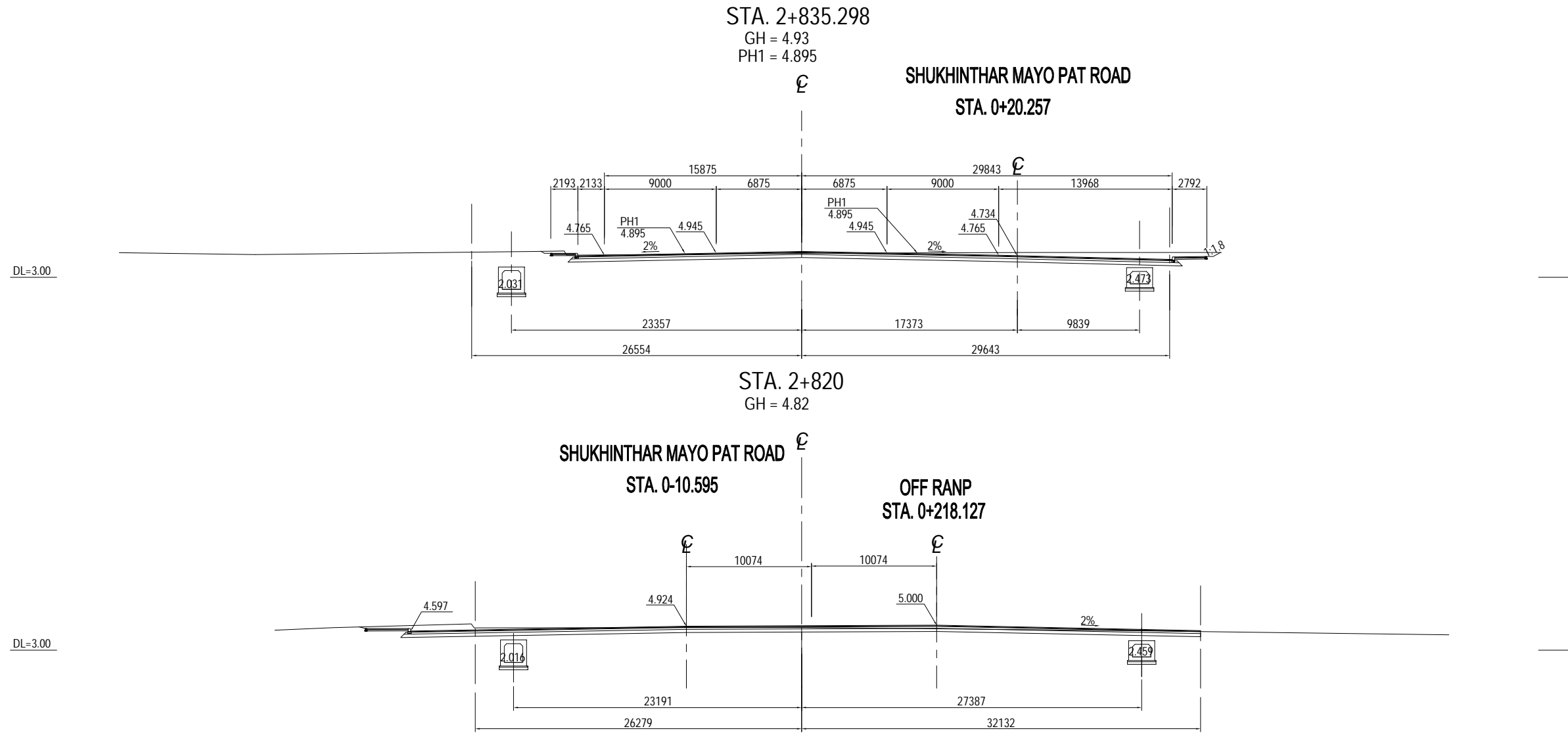


PLAN FOR PAVEMENT TYPE(3) S= 1:1000



PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME PREPARED BY K. TACHIBANA CHECKED BY T. HAYAKAWA APPROVED BY Y. SANO	SIGNATURE 	DATE 29 Sep.2017 3 Oct.2017 6 Oct.2017	DRAWING TITLE PLAN FOR PAVEMENT TYPE(3) S=1:1000	PACKAGE 0 DWG No. P3-RD-0330
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CROSS SECTION(1) S= 1:400



Note: Elevation of each cross section is based on Mean Sea Level (MSL).

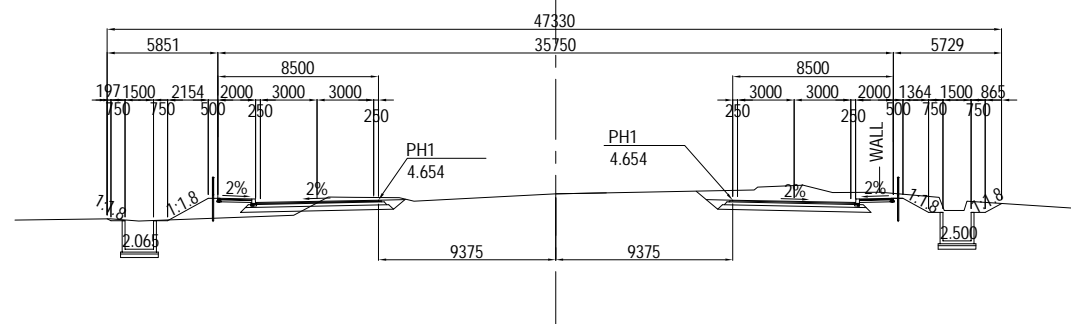
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO. LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(1) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P0-RD-0400

CROSS SECTION(2) S= 1:400

STA. 2+880
GH = 4.98
PH1 = 4.654

℄

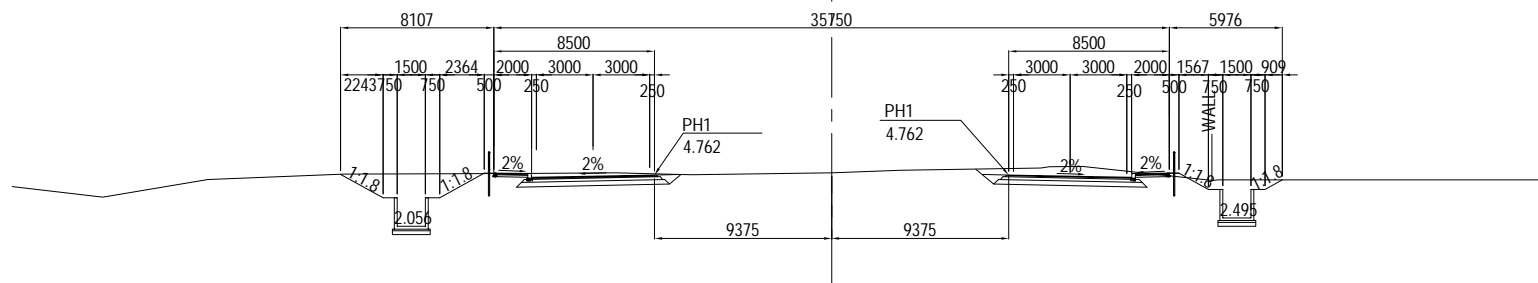
DL=3.00



STA. 2+860
GH = 4.88
PH1 = 4.762

℄

DL=3.00

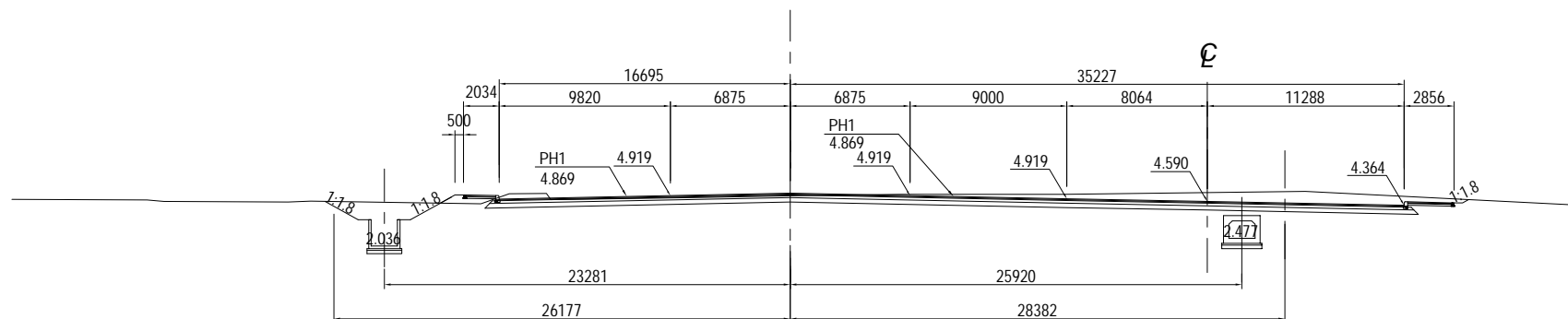


STA. 2+840
GH = 4.91
PH1 = 4.869

SHUKHINTHAR MAYO PAT ROAD
STA. 0+28.516

℄

DL=3.00



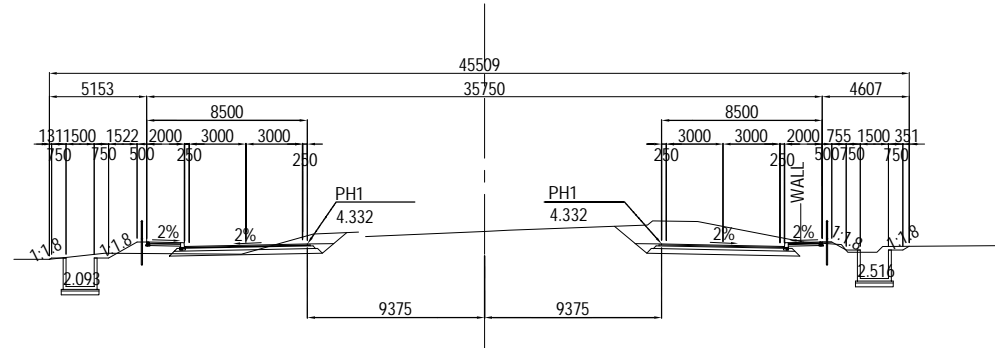
Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO. LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(2) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P0-RD-0410

CROSS SECTION(3) S= 1:400

STA. 2+940
GH = 4.99
PH 1= 4.332

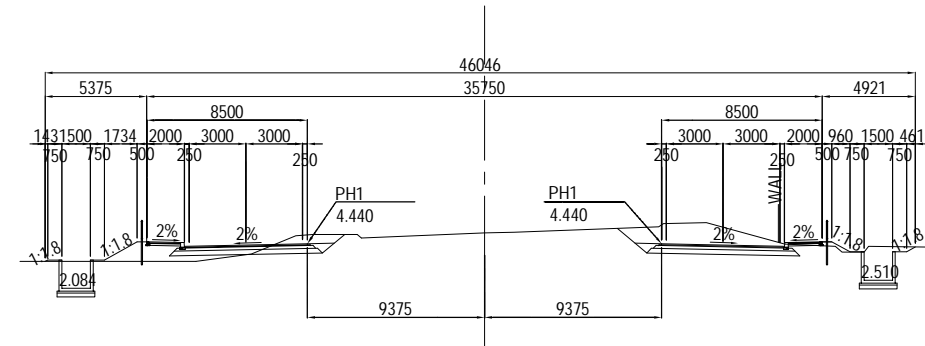
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DL=3.00

STA. 2+920
GH = 5.01
PH 1= 4.440

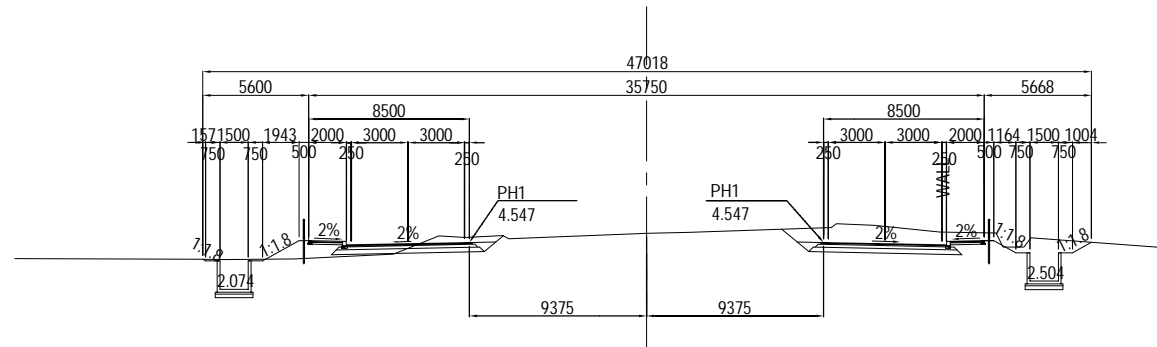
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DL=3.00

STA. 2+900
GH = 5.04
PH 1= 4.547

ℓ



DL=3.00

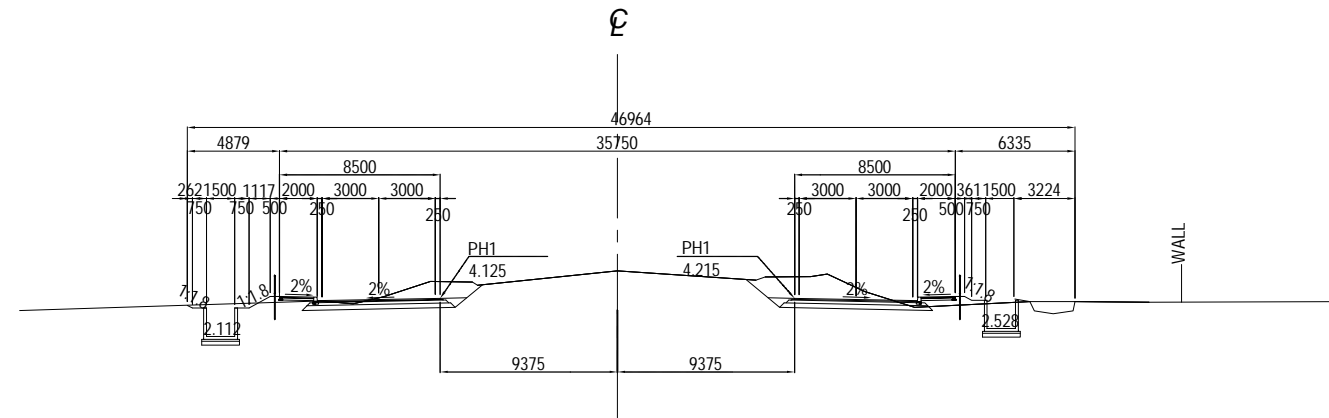
Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	K. TACHIBANA		29 Sep.2017	CROSS SECTION(3) S= 1:400	0
				T. HAYAKAWA		3 Oct.2017		DWG No.
				Y. SANO		6 Oct.2017		P0-RD-0420

CROSS SECTION(4) S= 1:400

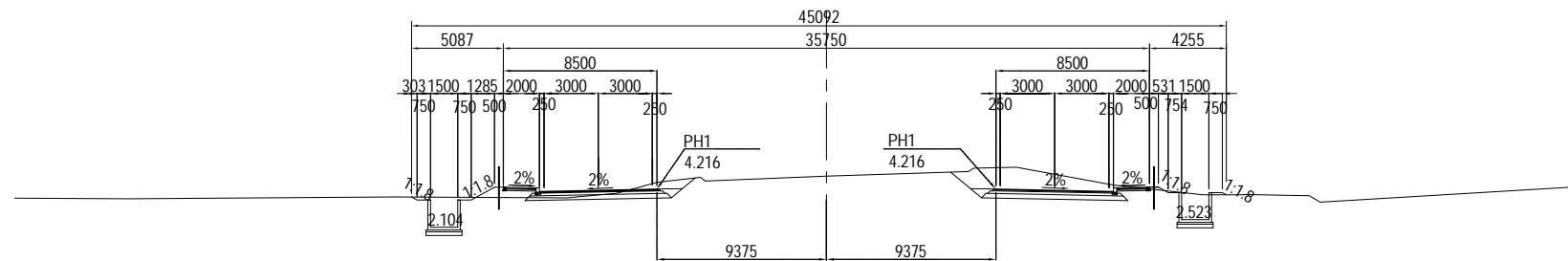
STA. 2+980
GH = 5.58
PH1 = 4.125

DL=3.00



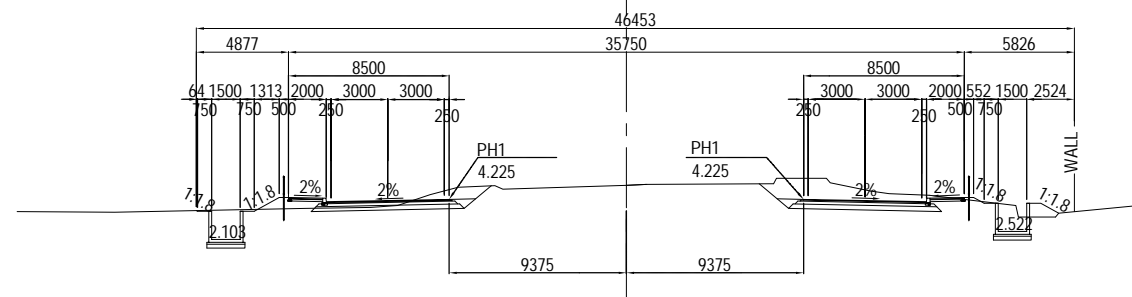
STA. 2+961.571
GH = 4.95
PH1 = 4.216

DL=3.00



STA. 2+960
GH = 4.97
PH1=4.225

DL=3.00

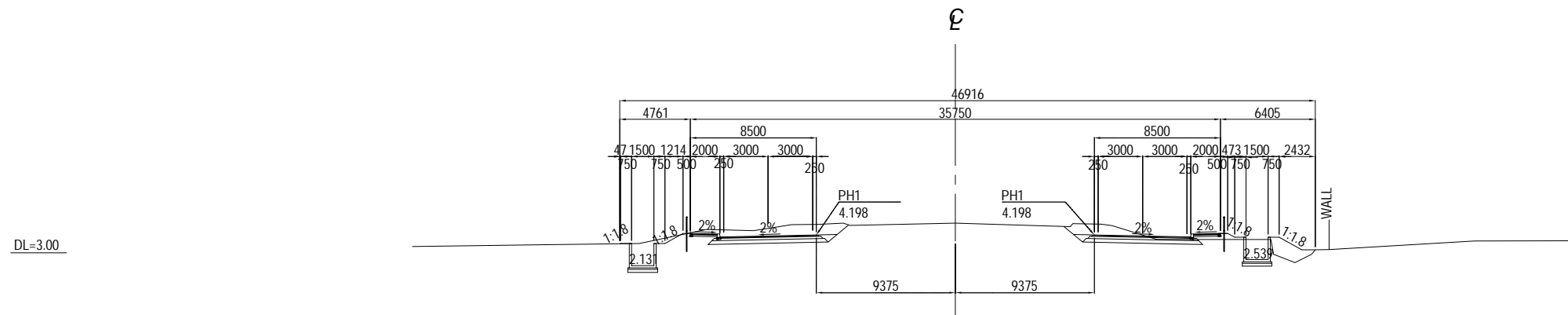


Note: Elevation of each cross section is based on Mean Sea Level (MSL).

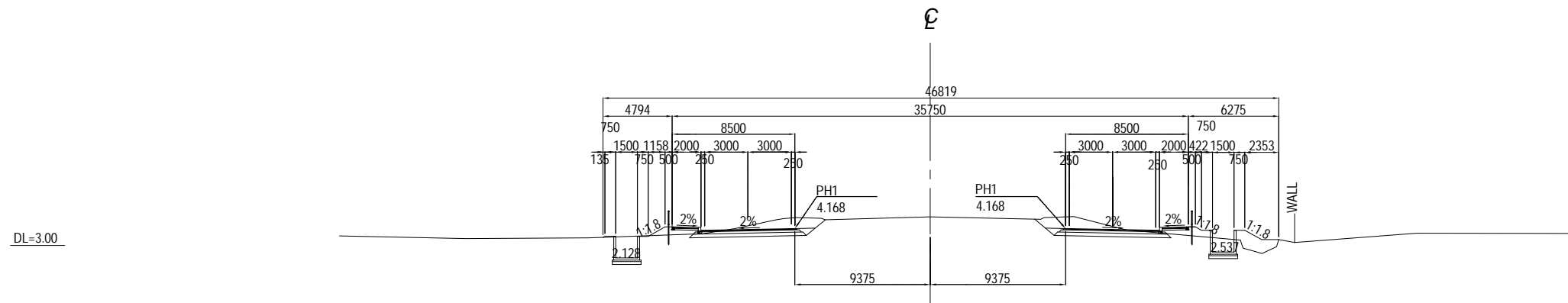
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY CHECKED BY APPROVED BY	K. TACHIBANA T. HAYAKAWA Y. SANO	29 Sep.2017 3 Oct.2017 6 Oct.2017	CROSS SECTION(4) S= 1:400	0 DWG No. P0-RD-0430

CROSS SECTION(5) S= 1:400

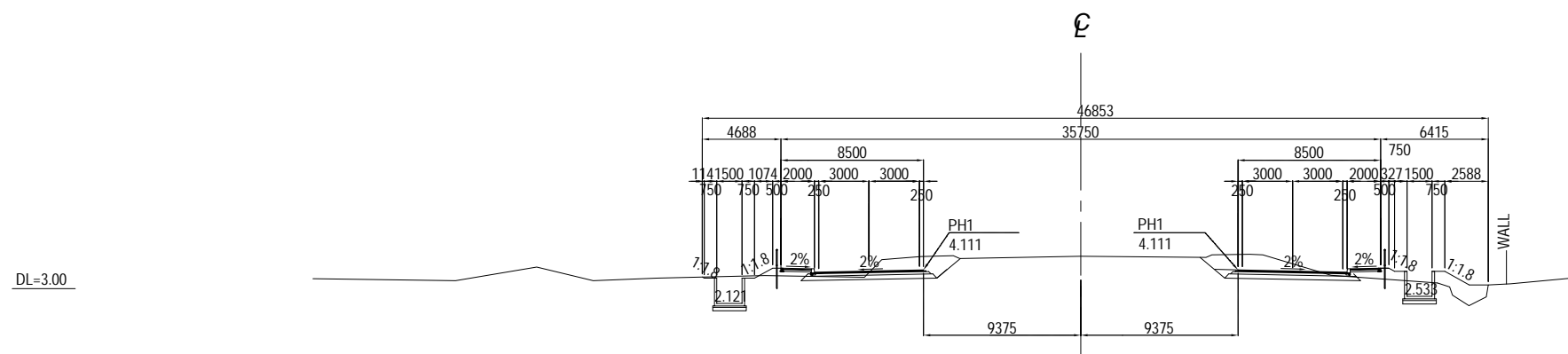
STA. 3+020
GH = 4.99
PH1 = 4.198



STA. 3+014.383
GH = 4.98
PH1 = 4.168



STA. 3+0.0
GH = 4.92
PH1 = 4.111

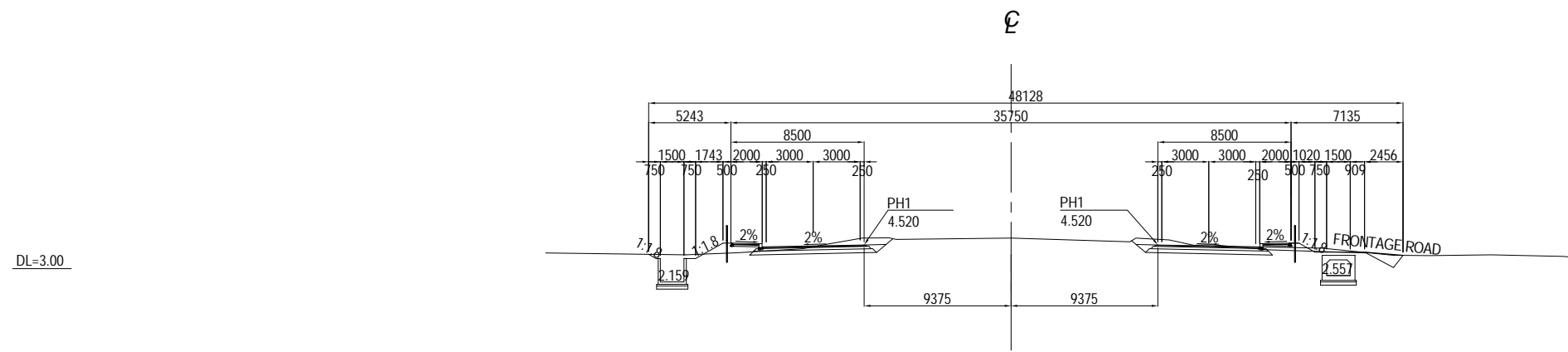


Note: Elevation of each cross section is based on Mean Sea Level (MSL).

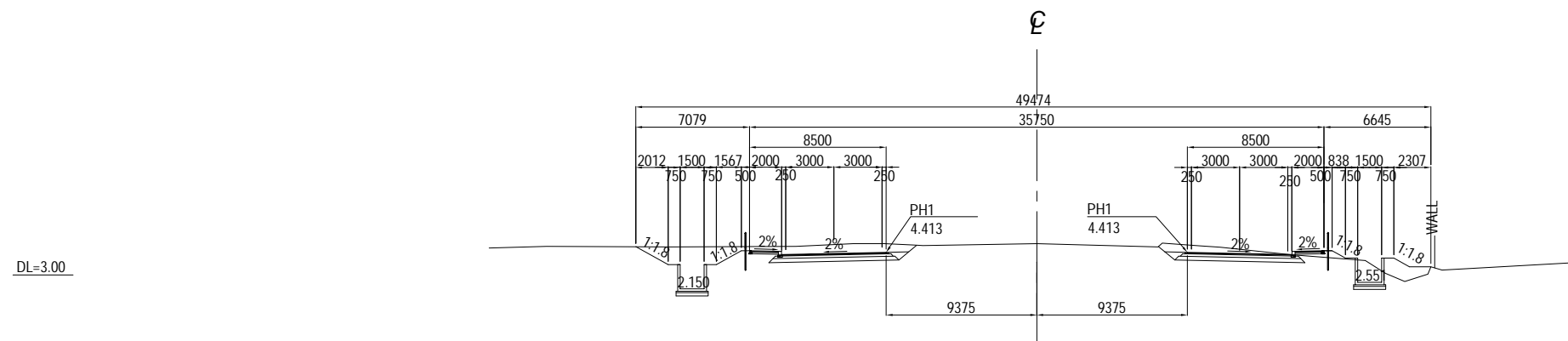
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(5) S= 1:400	PACKAGE 0 DWG No. P0-RD-0440
				PREPARED BY K. TACHIBANA		29 Sep.2017		
				CHECKED BY T. HAYAKAWA		3 Oct.2017		
				APPROVED BY Y. SANO		6 Oct.2017		

CROSS SECTION(6) S= 1:400

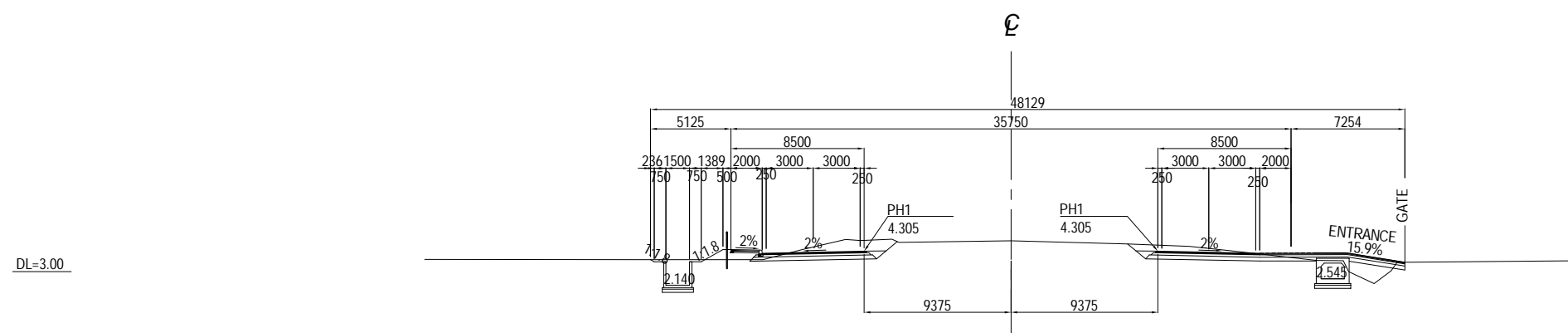
STA. 3+080
GH = 4.96
PH1 = 4.520



STA. 3+060
GH = 4.95
PH1 = 4.413



STA. 3+040
GH = 4.97
PH1 = 4.305



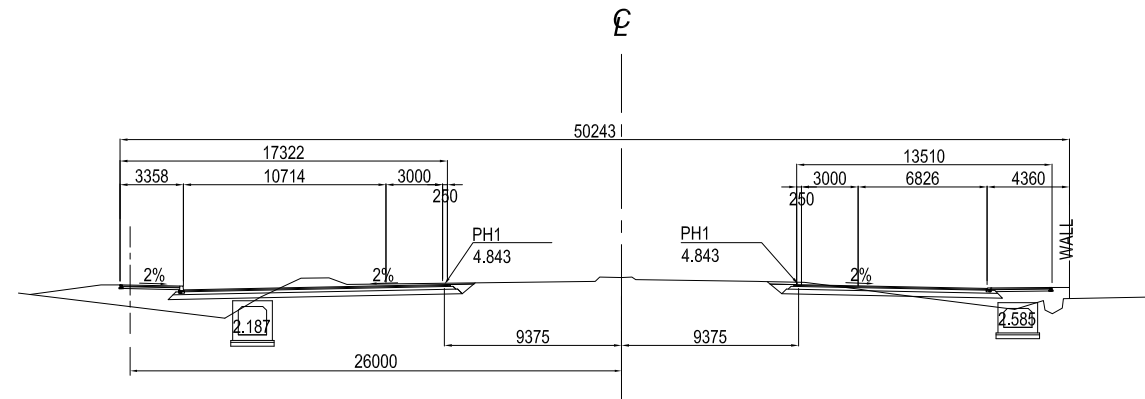
Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(6) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P0-RD-0450

CROSS SECTION(7) S= 1:400

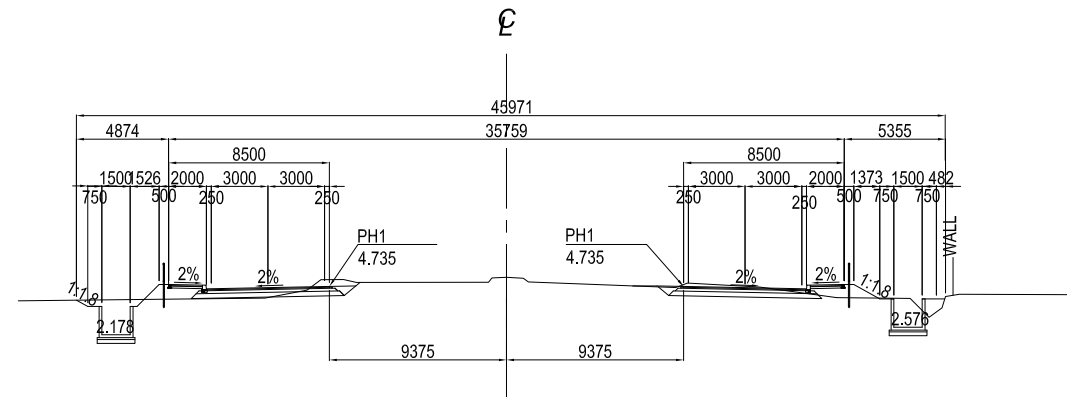
STA. 3+140
GH = 5.22
PH1 = 4.843

DL=3.00



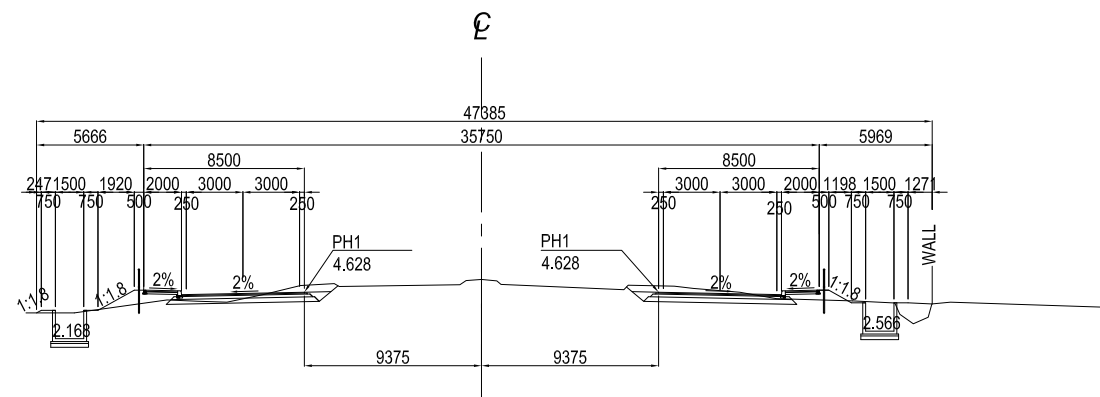
STA. 3+120
GH = 5.22
PH1 = 4.735

DL=3.00



STA. 3+100
GH = 5.30
PH1 = 4.628

DL=3.00

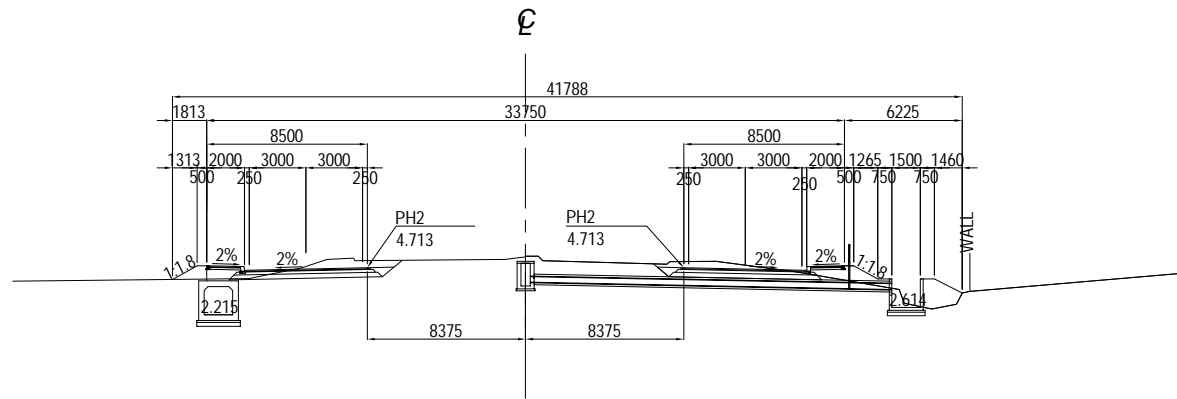


Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY CHECKED BY APPROVED BY	K. TACHIBANA T. HAYAKAWA Y. SANO	29 Sep. 2017 3 Oct. 2017 6 Oct. 2017	CROSS SECTION(7) S= 1:400	0 DWG No. P0-RD-0460

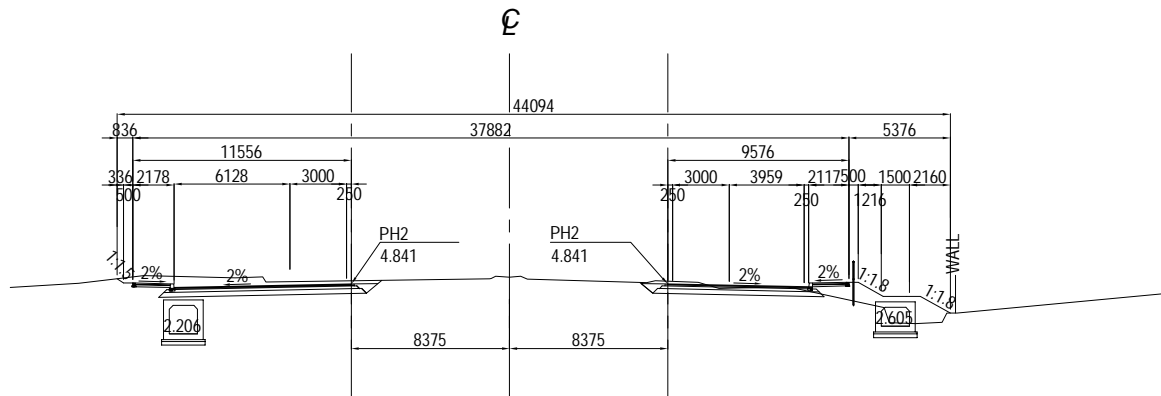
CROSS SECTION(8) S= 1:400

STA. 3+200
GH = 5.29
PH2 = 4.713



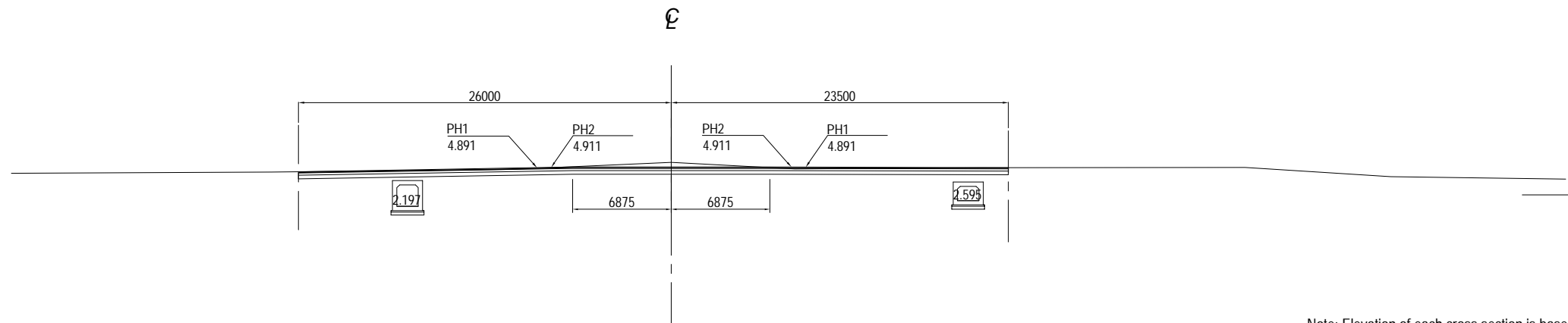
DL=3.00

STA. 3+180
GH = 5.21
PH2 = 4.841



DL=3.00

STA. 3+160
GH = 5.26
PH1 = 4.891 PH2 = 4.911



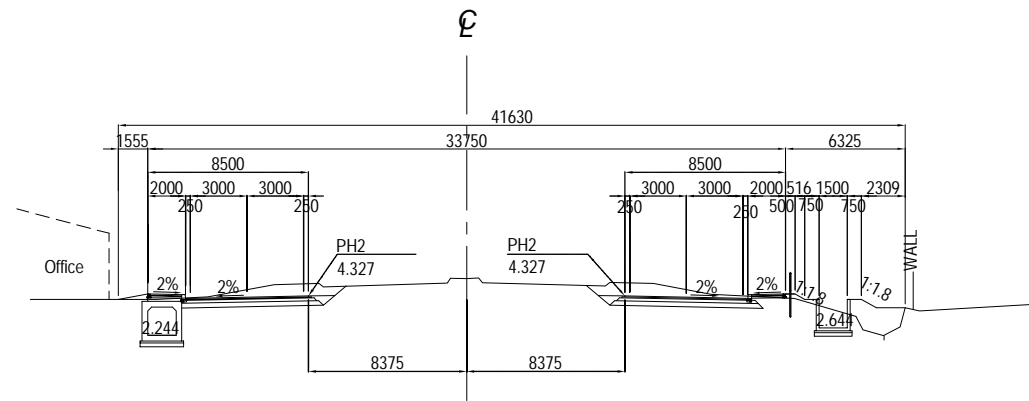
DL=3.00

Note: Elevation of each cross section is based on Mean Sea Level (MSL).

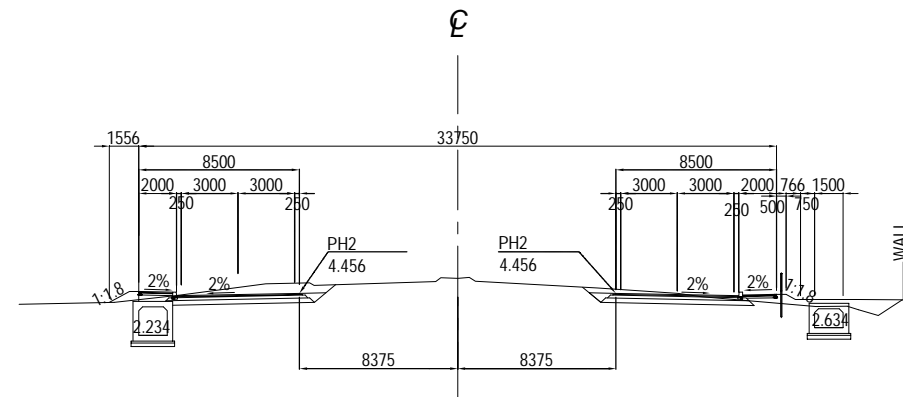
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(8) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P0-RD-0470

CROSS SECTION(9) S= 1:400

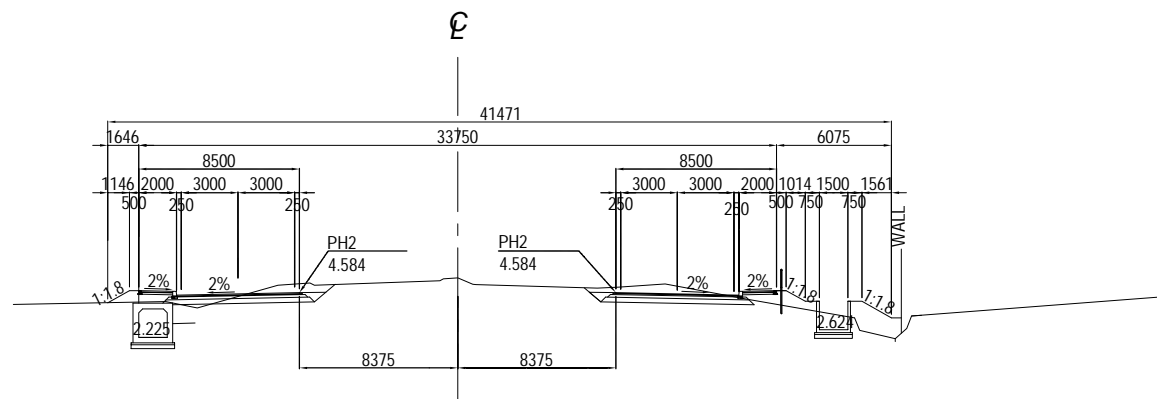
STA. 3+260
GH = 5.24
PH2 = 4.327



STA. 3+240
GH = 5.25
PH2 = 4.456



STA. 3+220
GH = 5.36
PH2 = 4.584



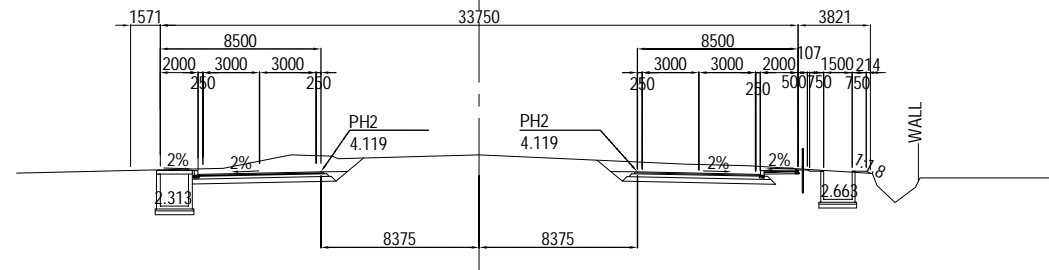
Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	K. TACHIBANA		29 Sep.2017	CROSS SECTION(9) S= 1:400	0
				T. HAYAKAWA		3 Oct.2017		DWG No.
				Y. SANO		6 Oct.2017		P0-RD-0480

CROSS SECTION(10) S= 1:400

STA. 3+300
GH = 5.03
PH2 = 4.119

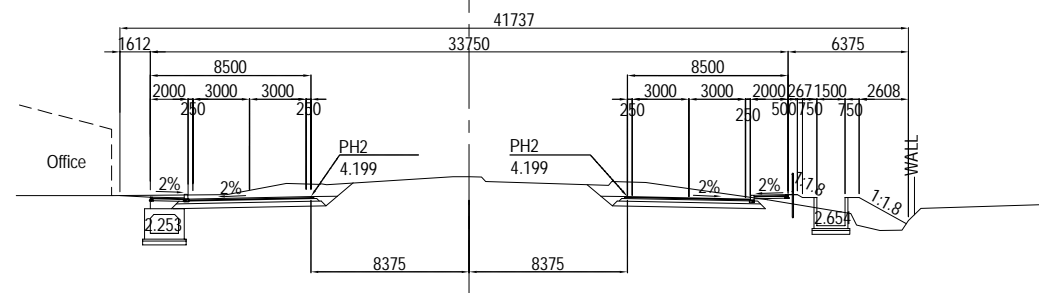
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DL=3.00

STA. 3+280
GH = 5.25
PH2 = 4.199

℄



DL=3.00

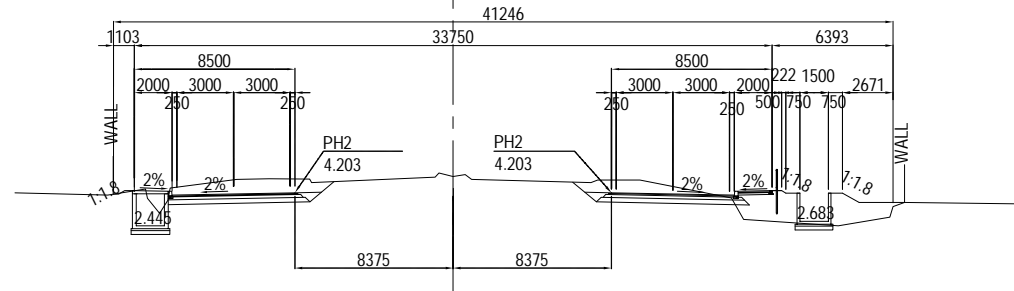
Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(10) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P0-RD-0490

CROSS SECTION(11) S= 1:400

STA. 3+340
GH = 5.06
PH2 = 4.203

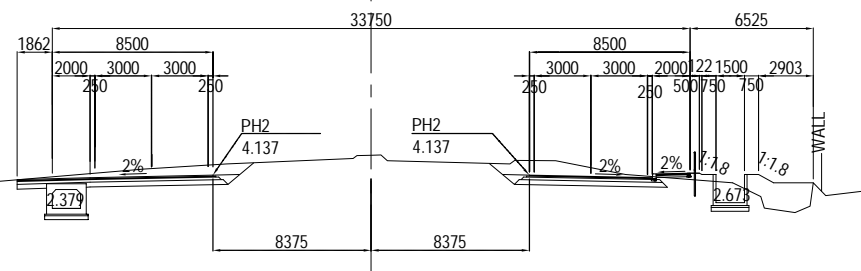
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DL=3.00

STA. 3+320
GH = 5.18
PH2 = 4.137

℄



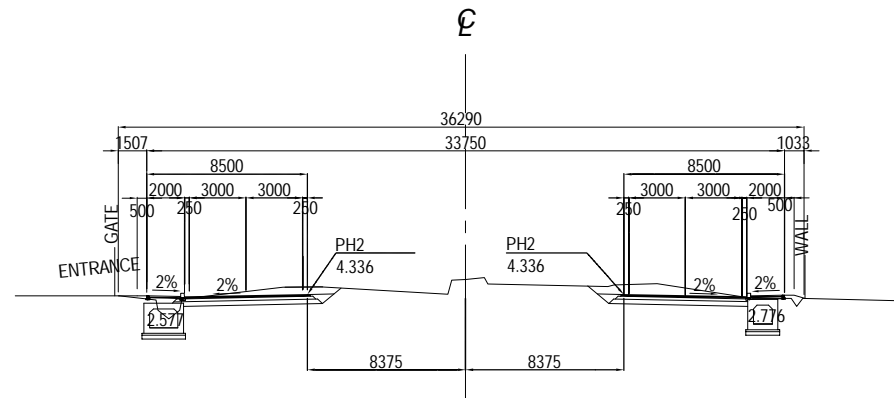
DL=3.00

Note: Elevation of each cross section is based on Mean Sea Level (MSL).

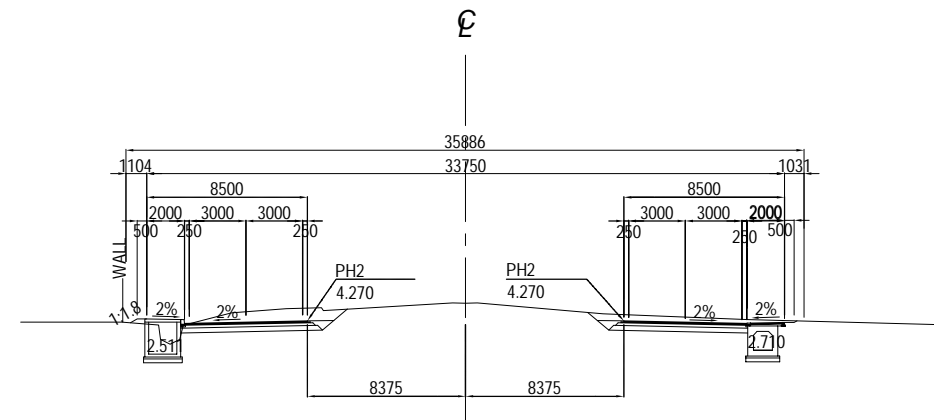
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(11) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P0-RD-0500

CROSS SECTION(12) S= 1:400

STA. 3+380
GH = 5.13
PH2 = 4.336



STA. 3+360
GH = 5.20
PH2 = 4.270

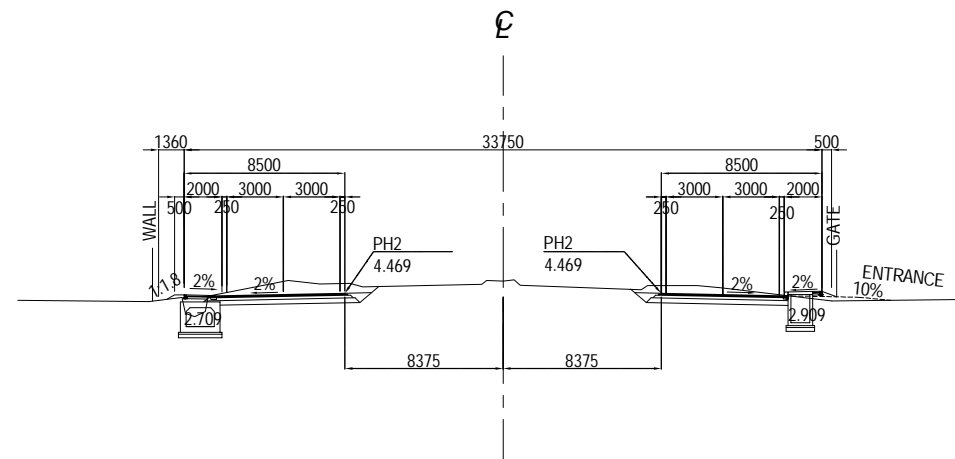


Note: Elevation of each cross section is based on Mean Sea Level (MSL).

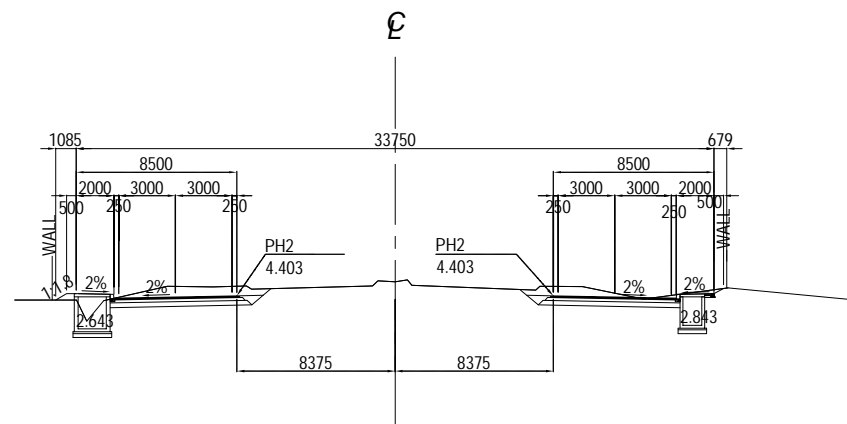
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY	K. TACHIBANA	29 Sep.2017	CROSS SECTION(12) S= 1:400	0
				CHECKED BY	T. HAYAKAWA	3 Oct.2017		DWG No.
				APPROVED BY	Y. SANO	6 Oct.2017		P0-RD-0510

CROSS SECTION(13) S= 1:400

STA. 3+420
GH = 5.12
PH2 = 4.469



STA. 3+400
GH = 5.15
PH2 = 4.403

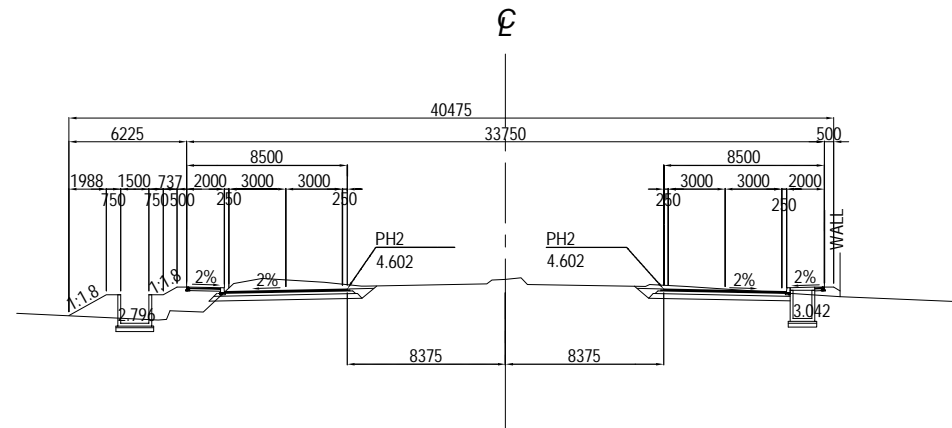


Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(13) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P0-RD-0520

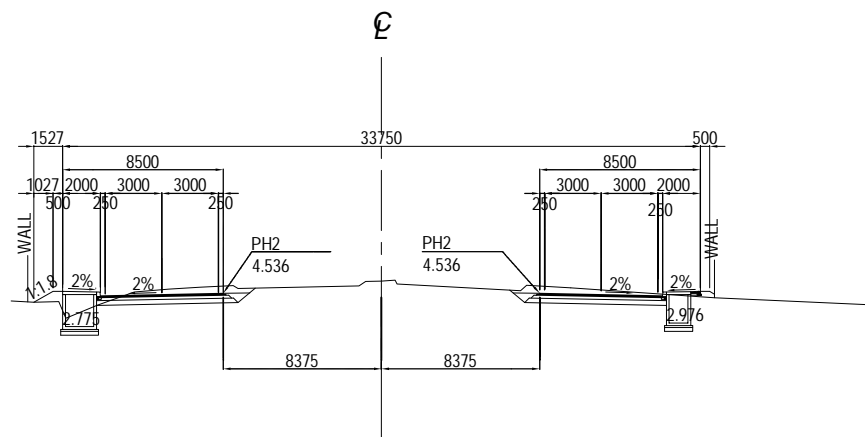
CROSS SECTION(14) S= 1:400

STA. 3+460
GH = 5.11
PH2 = 4.602



DL=3.00

STA. 3+440
GH = 5.19
PH2 = 4.536



DL=3.00

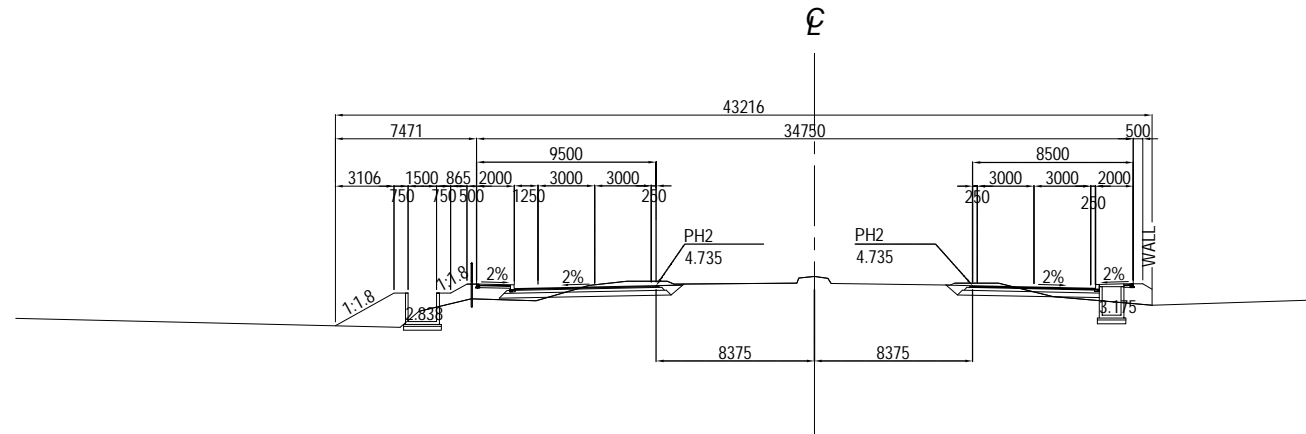
Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(14) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P0-RD-0530

CROSS SECTION(15) S= 1:400

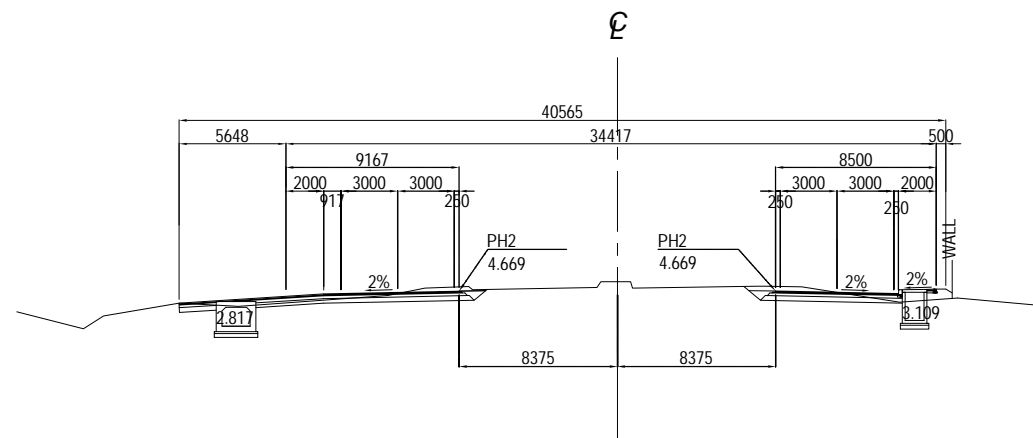
STA. 3+500
GH = 5.23
PH2 = 4.735

DL=3.00



STA. 3+480
GH = 5.16
PH2 = 4.669

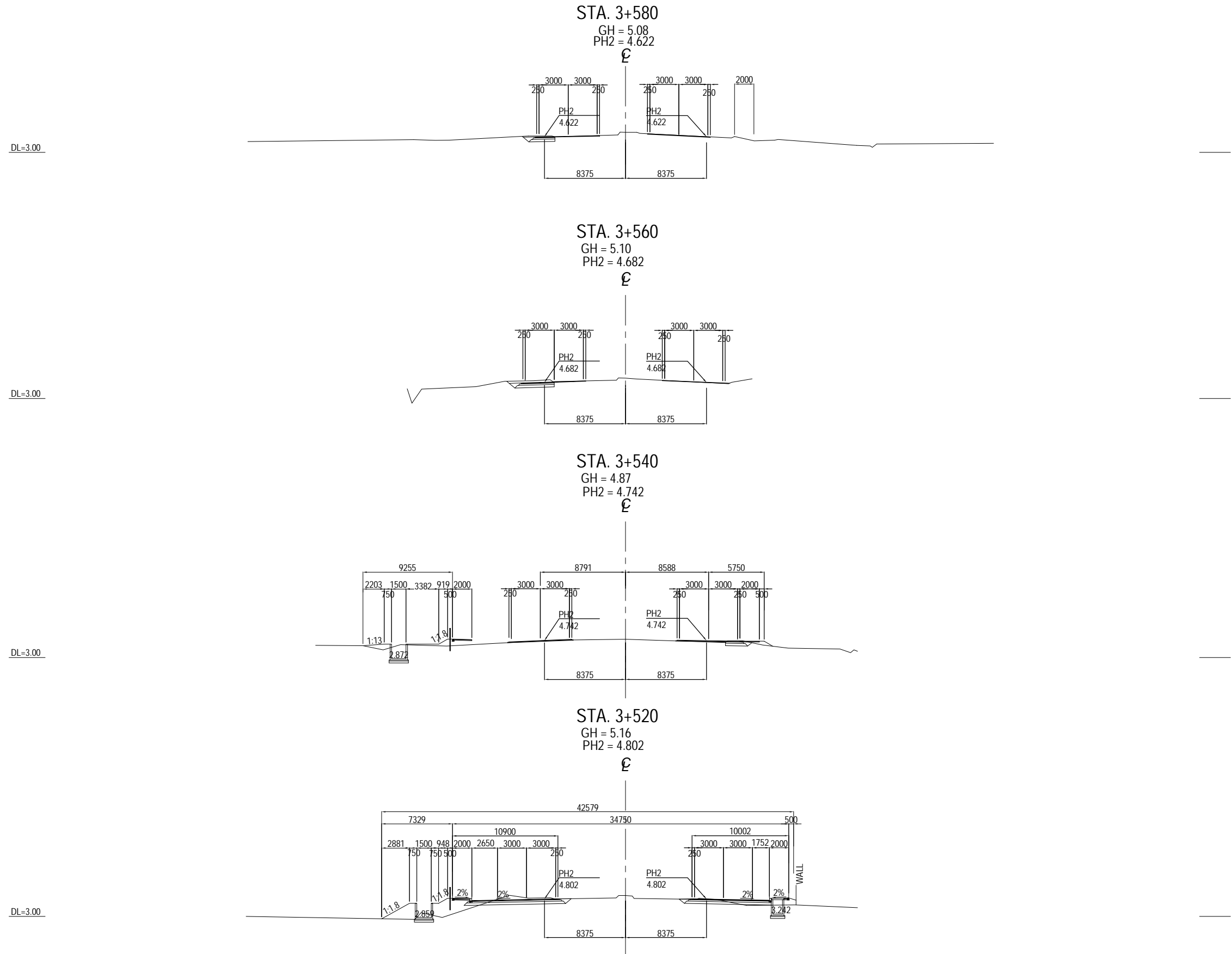
DL=3.00



Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	K. TACHIBANA		29 Sep.2017	CROSS SECTION(15) S= 1:400	0
				T. HAYAKAWA		3 Oct.2017		DWG No.
				Y. SANO		6 Oct.2017		P0-RD-0540

CROSS SECTION(16) S= 1:400



Note: Elevation of each cross section is based on Mean Sea Level (MSL).

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE CROSS SECTION(16) S= 1:400	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P0-RD-0550

INTERSECTION PLAN, PROFILE AND SECTION (SHUKHINTHAR INTERSECTION STA.2+830)

SHUKHINTHAR MAYO PAT ROAD/AWARAT ST

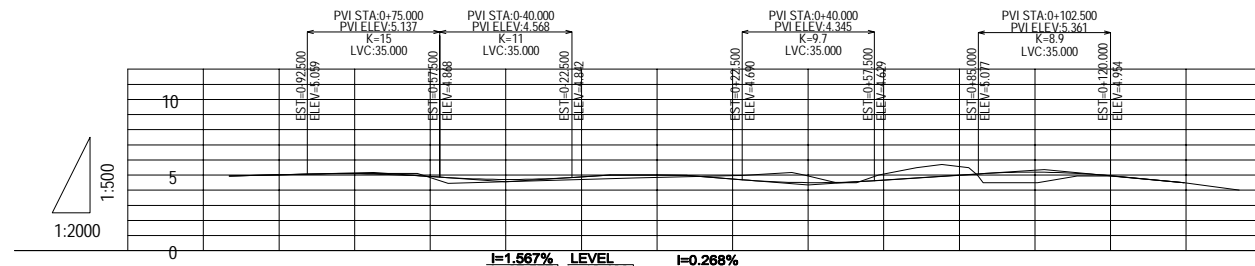
STA	EASTING	NORTHING	ELEMENT	DIRECTION	BR	P	ER	L
BP	0+286.8224	204092.659200	1859373.180867	S	L			292.345
BC.1	0+5.5228	204286.365525	1859592.141060	R	L	100.000		43.312
BC.2	0+48.8349	204307.258946	1859629.694478	R	L	600.000		135.124
EP	0+183.9593	204331.207129	1859762.389763	E				

APPROACH ROAD-ON

No	EASTING	NORTHING	ELEMENT	DIRECTION	BR	P	ER	L
BP	0+0.000	204367.454022	1859480.659695	S	L			32.743
BC.1	1+12.743	204341.376097	1859500.459242	R	L	70.000		49.949
BC.2	4+2.433	204315.188197	1859541.750719	R	L	70.000		56.764
BC.3	6+18.814	204283.398817	1859586.904210	R	R	70.000		39.267
EP	8+18.081	204257.313166	1859615.564452	E				

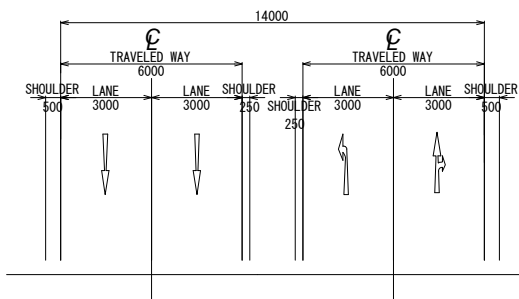
APPROACH ROAD-OFF

No	EASTING	NORTHING	ELEMENT	DIRECTION	BR	P	ER	L
BC.1	0+0.000	204365.245444	1859499.164484	R	R	50.000		42.483
EC.1	2+2.483	204333.436371	1859525.375230	S	L			39.981
BC.2	4+2.464	204315.803013	1859561.257828	R	L	77.000		8.337
BC.3	4+10.801	204311.728750	1859568.526403	R	R	500.000		61.327
EP	7+12.128	204282.146606	1859622.203211	E				

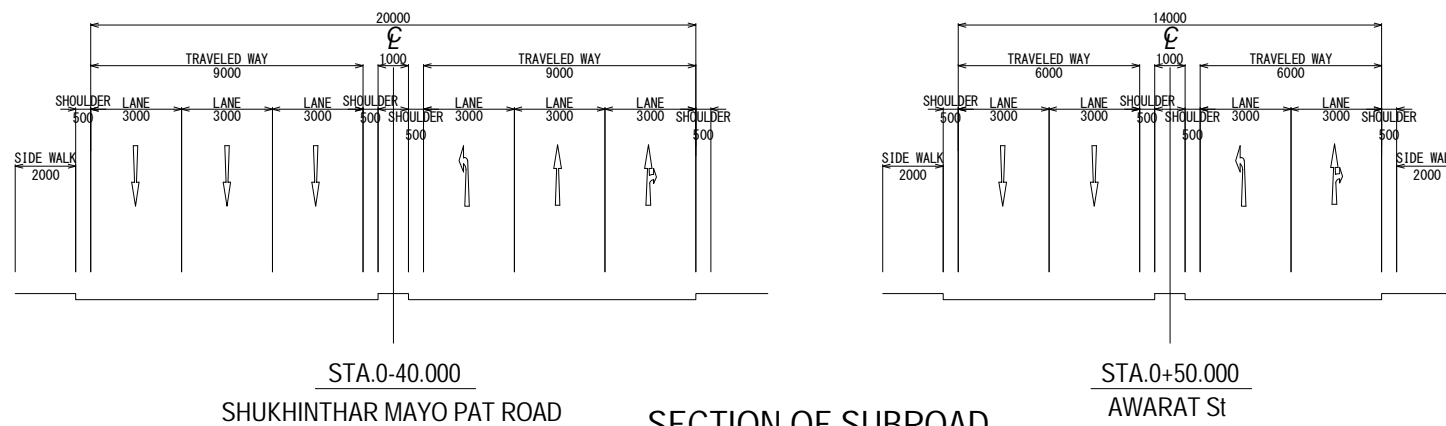


GRADE	PROPOSED HEIGHT	EXISTING HEIGHT	STATION	SUPER ELEVATION	CURVE ELEMENTS
4.930	4.930	4.93	STA 0+173.200	0.113.200	L=292.345
5.002	5.002	5.01	-100.000	2.00%	
5.062	5.062	5.11	-80.000	0.52.000	R=100.000 IP 1 IA=24.48.58 CL=43.312
5.137	5.042	5.11	-75.000	2.00%	
4.981	4.891	4.83	-60.000	1/100	R=600.000 IP 2 IA=12.54.12 CL=135.124
4.708	4.708	4.56	-40.000	2.00%	
5.000	5.000	4.71	-20.000	1/100	R=600.000 IP 2 IA=12.54.12 CL=135.124
5.000	5.000	4.77	-12.423	2.00%	
4.979	4.979	4.86	STA 0+71.822	0.52.000	R=600.000 IP 2 IA=12.54.12 CL=135.124
4.979	4.979	4.89	BC 1+7.822	2.00%	
4.739	4.739	4.97	+20.000	1/100	R=600.000 IP 2 IA=12.54.12 CL=135.124
4.502	4.502	4.94	+40.000	2.00%	
4.527	4.527	4.50	BC 2+80.000	1/100	R=600.000 IP 2 IA=12.54.12 CL=135.124
4.670	4.670	5.07	+80.000	2.00%	
4.985	4.985	5.57	+80.000	1/100	R=600.000 IP 2 IA=12.54.12 CL=135.124
5.361	5.198	4.58	+100.000	2.00%	
4.954	4.954	4.95	+120.000	1/100	R=600.000 IP 2 IA=12.54.12 CL=135.124
4.500	4.500	4.50	+138.500	2.00%	
4.500	4.500	4.48	+160.000	2.00%	

PROFILE OF SUBROAD
SCALE: H-1:2000, V-1:500



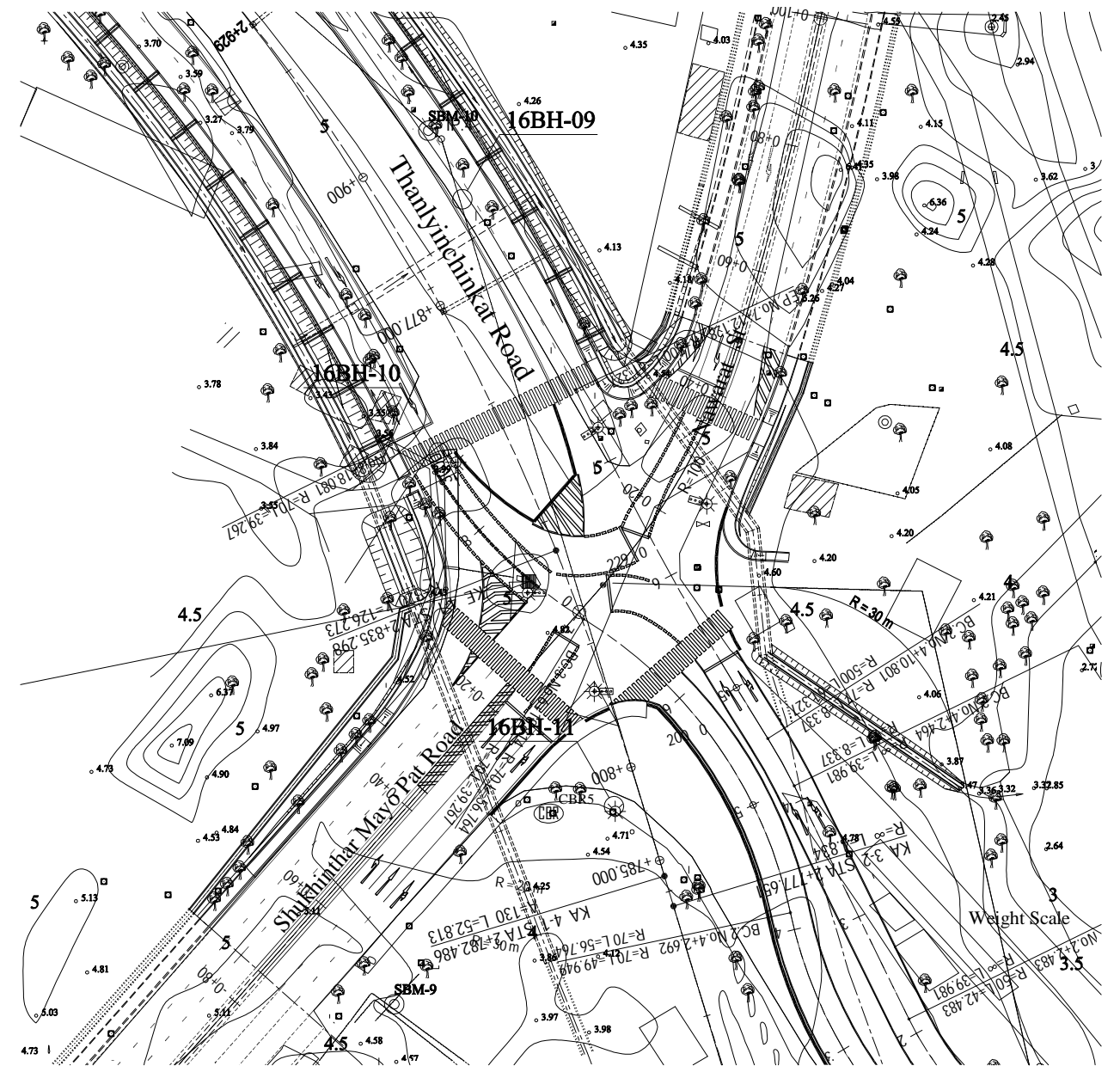
TEMPORARY ROAD SECTION
SCALE: H-1:250



STA.0+40.000
SHUKHINTHAR MAYO PAT ROAD

SECTION OF SUBROAD
SCALE: H-1:250

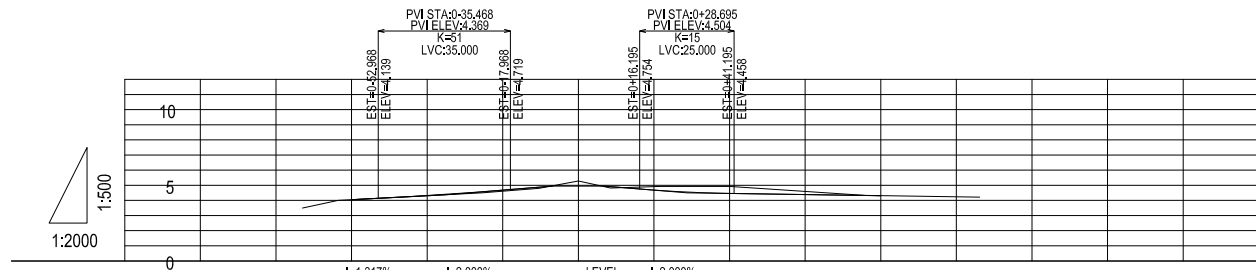
STA.0+50.000
AWARAT ST



INTERSECTION PLAN
SCALE: H-1:1000

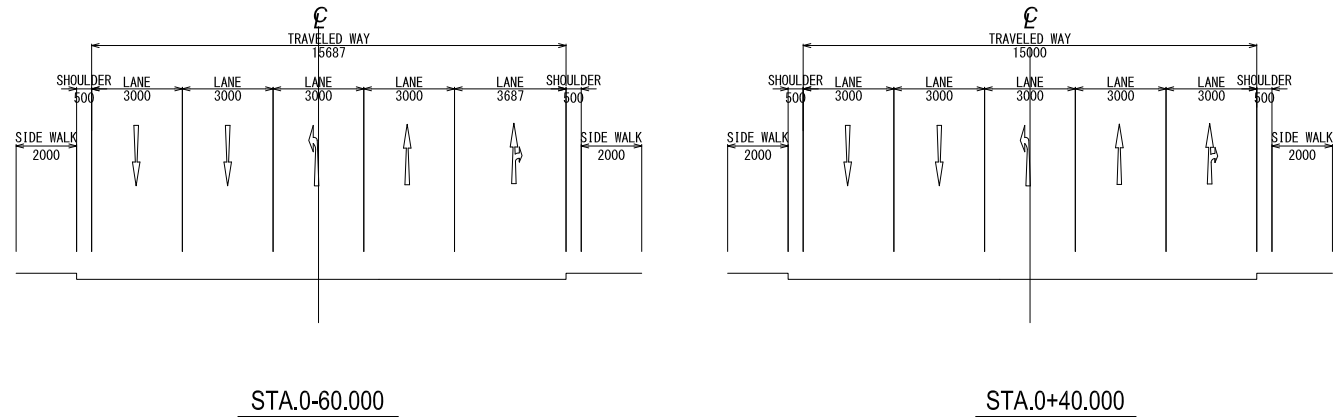
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JICA JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME K. TACHIBANA	SIGNATURE <i>[Signature]</i>	DATE 29 Sep.2017	DRAWING TITLE INTERSECTION PLAN, PROFILE AND SECTION (SHUKHINTHAR INTERSECTION STA.2+830)	PACKAGE 0 DWG No. P0-RD-2000
				CHECKED BY T. HAYAKAWA	<i>[Signature]</i>	3 Oct.2017		
				APPROVED BY Y. SANO	<i>[Signature]</i>	6 Oct.2017		

INTERSECTION PLAN, PROFILE AND SECTION (YADANAR INTERSECTION STA.3+160)



GRADE		4.046	4.326	4.369	4.679	4.941	4.941	4.941	4.505	4.464	4.389	4.315			
PROPOSED HEIGHT		4.046	4.326	4.399	4.679	4.941	4.941	4.941	4.683	4.555	4.464	4.315			
EXISTING HEIGHT		3.52	4.05	4.31	4.37	4.61	4.96	5.20	4.91	4.92	4.50	4.24			
STATION	BP	-80.000	-60.000	-40.000	-35.468	-20.000	-6.875	EC.1	+20.000	+28.695	+40.000	+60.000	+80.000	+100.000	EP
SUPER ELEVATION			0.000%	2.000%	2.000%	2.000%	2.000%	2.000%	2.000%	2.000%	2.000%	2.000%	2.000%	2.000%	2.000%
CURVE ELEMENTS		L=23.316	R=150.000	IP.1	IP.1	IP.1	IP.1	IP.1	IP.1	IP.1	IP.1	L=111.190			

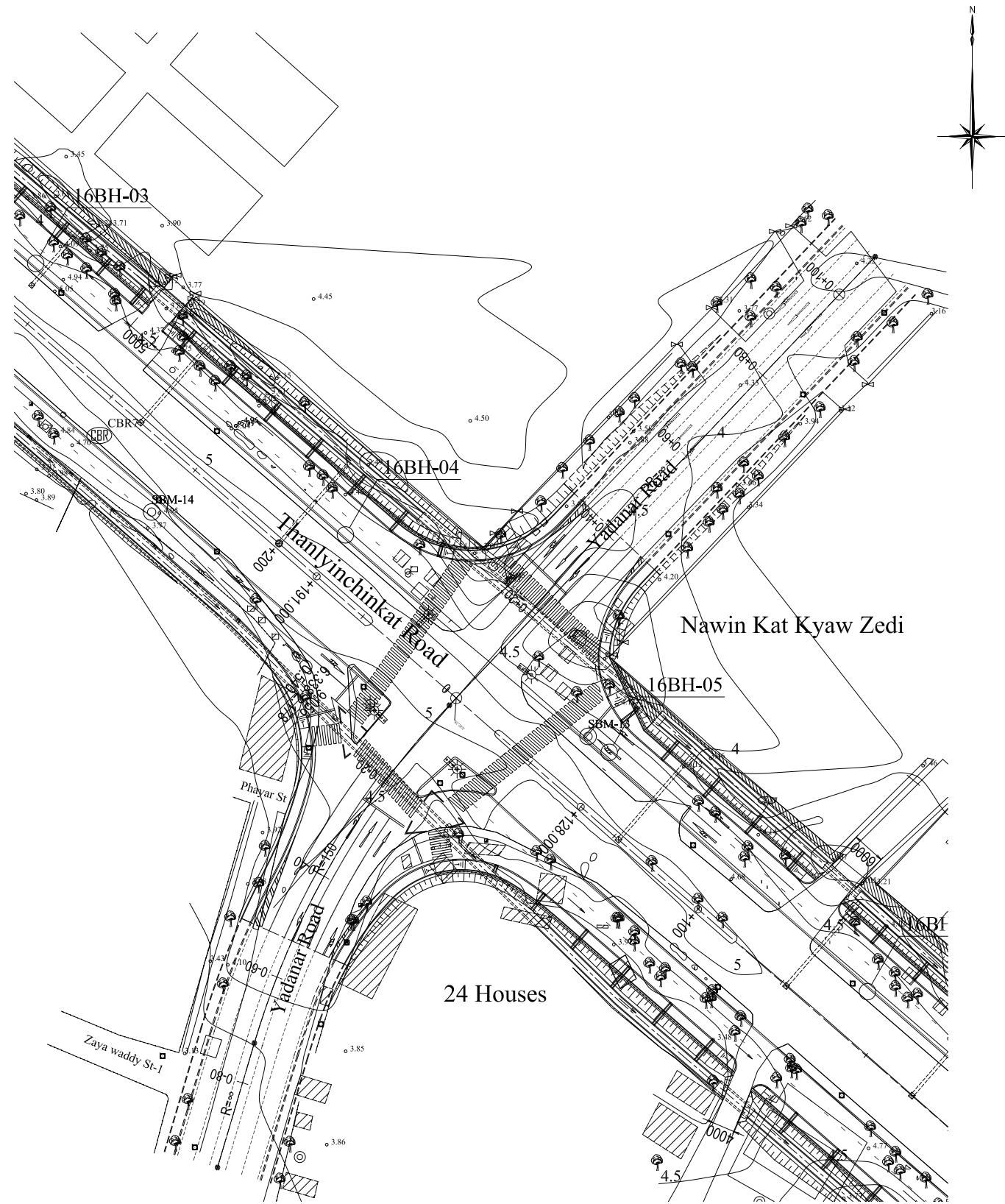
PROFILE OF SUBROAD
SCALEH-1:2000,V-1:500



SECTION OF SUBROAD
SCALEH-1:250

YADANAR ROAD

	STA	EASTING	NORTHING	ELEMENT	DIRECTION	BR	P	ER	L
BP	0-95.8649	204021.251900	1859748.460679	S	L				23.316
BC.1	0-72.5487	204027.875452	1859770.816336	R	R	150.000			70.754
EC.1	0-1.7949	204062.942775	1859831.514307	S	L				111.190
EP	0+109.3947	204139.522025	1859912.129132	E					

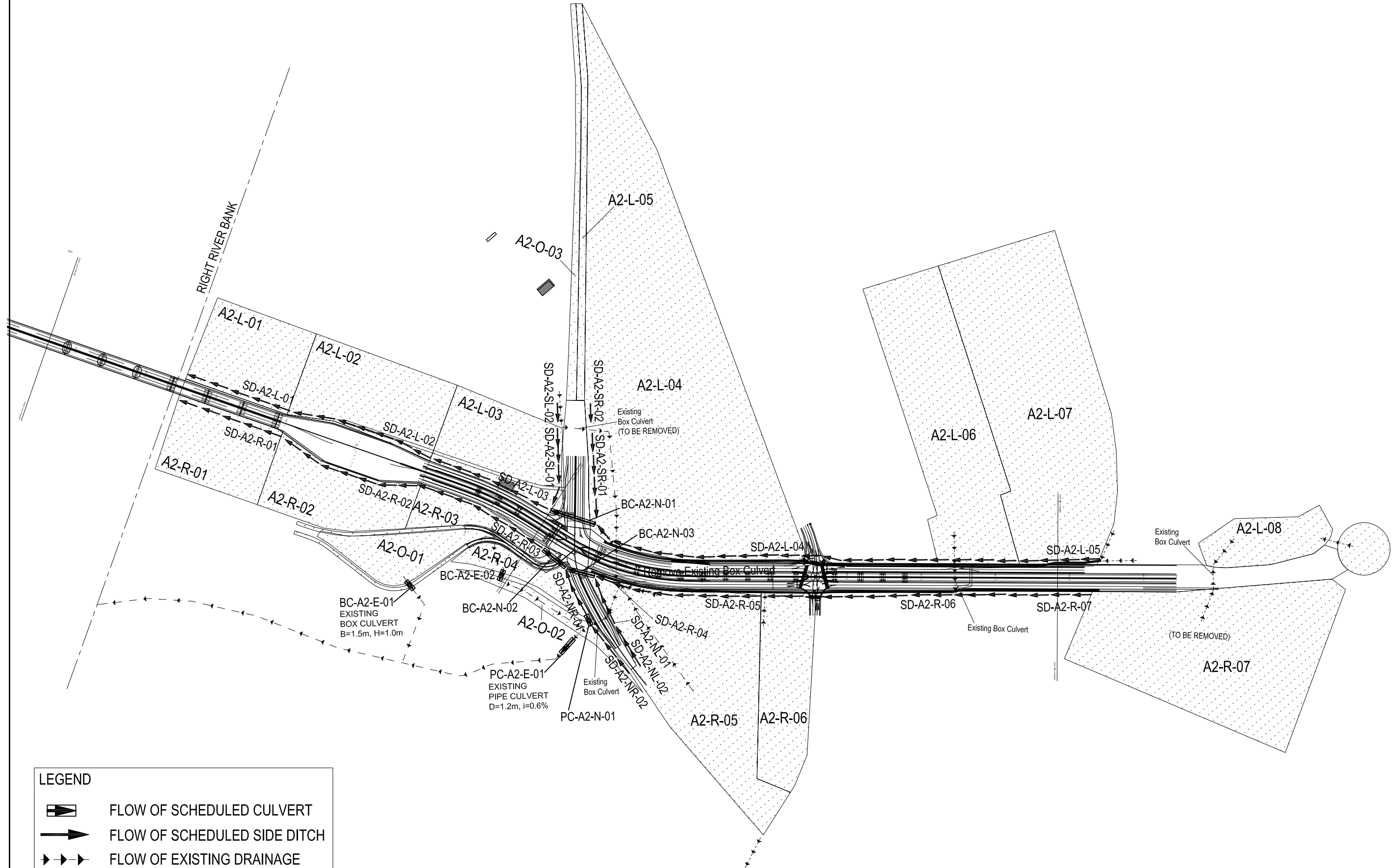


INTERSECTION PLAN
SCALEH-1:1000

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM 	NAME	SIGNATURE	DATE	DRAWING TITLE INTERSECTION PLAN,PROFILE AND SECTION (YADANAR INTERSECTION STA.3+160)	PACKAGE 0 DWG No. PO-RD-2010	
				PREPARED BY	K. TACHIBANA				29 Sep. 2017
				CHECKED BY	T. HAYAKAWA				3 Oct. 2017
				APPROVED BY	Y. SANO				6 Oct. 2017

DRAINAGE SYSTEM PLAN AND OUTLETS (RIGHT RIVER BANK)

S= 1:5000



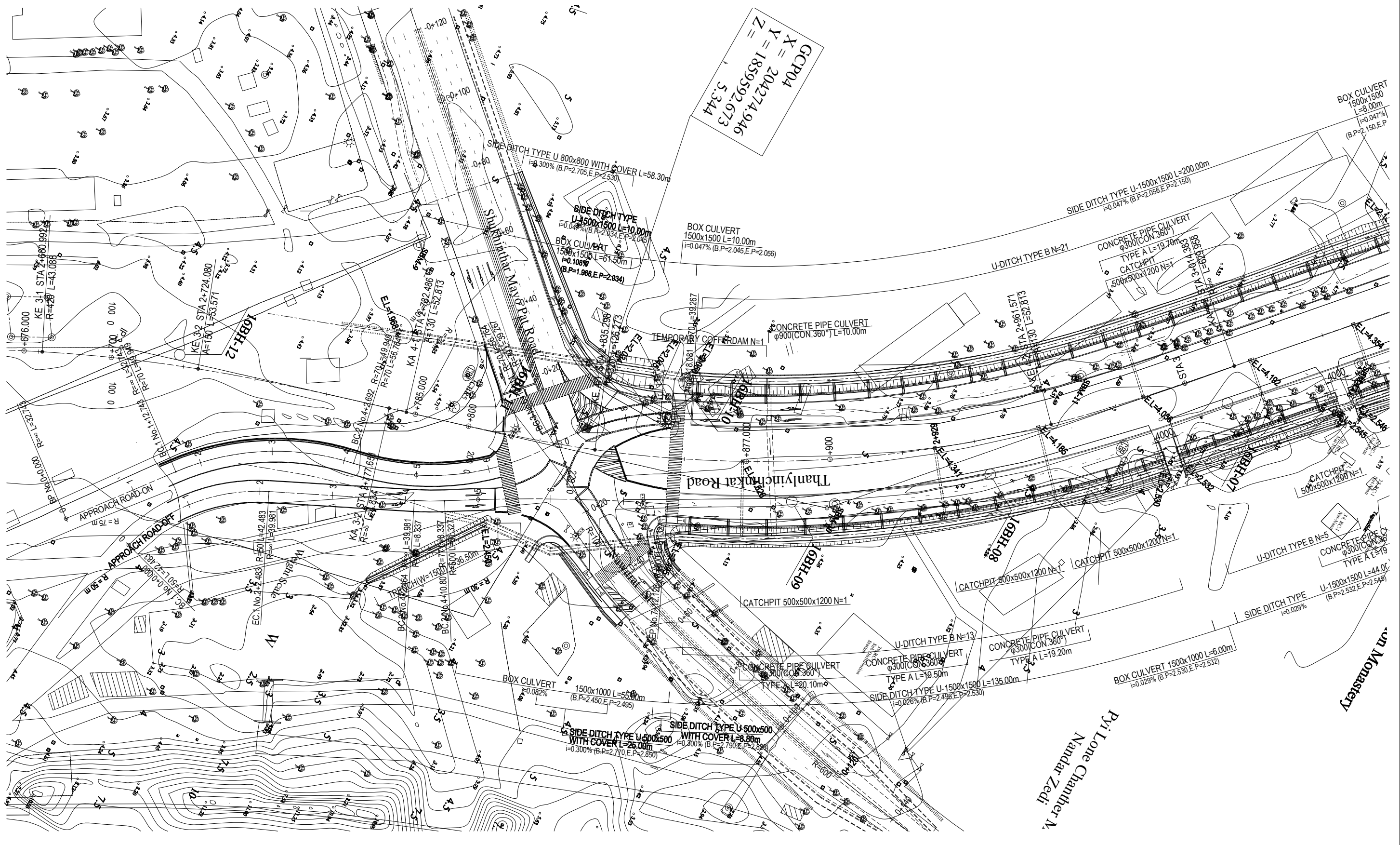
LEGEND

- FLOW OF SCHEDULED CULVERT
- FLOW OF SCHEDULED SIDE DITCH
- FLOW OF EXISTING DRAINAGE
- CATCHMENT AREA

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE			
				PREPARED BY	K. TACHIBANA				29 Sep. 2017	DRAINAGE SYSTEM PLAN AND OUTLETS (RIGHT RIVER BANK) S= 1:5000	0
				CHECKED BY	T. HAYAKAWA				3 Oct. 2017		DWG No.
				APPROVED BY	Y. SANO				6 Oct. 2017		P0-RD-3000

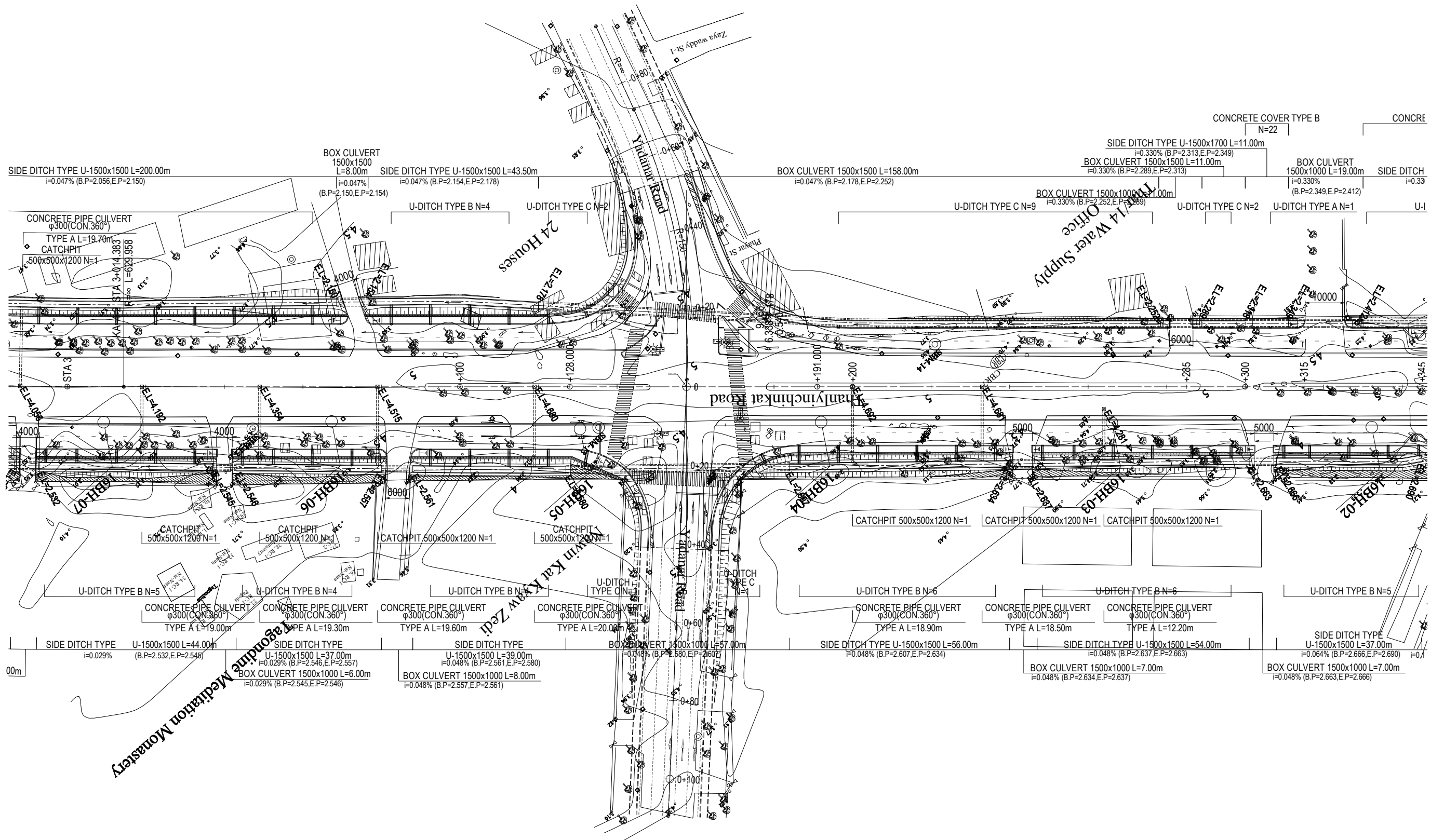
DRAINAGE SYSTEM PLAN(1) H= 1:1000

GCP04
 X = 204274.946
 Y = 1859592.673
 Z = 5.344



PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY K. TACHIBANA</td> <td></td> <td>29 Sep.2017</td> </tr> <tr> <td>CHECKED BY T. HAYAKAWA</td> <td></td> <td>3 Oct.2017</td> </tr> <tr> <td>APPROVED BY Y. SANO</td> <td></td> <td>6 Oct.2017</td> </tr> </tbody> </table>	NAME	SIGNATURE	DATE	PREPARED BY K. TACHIBANA		29 Sep.2017	CHECKED BY T. HAYAKAWA		3 Oct.2017	APPROVED BY Y. SANO		6 Oct.2017	DRAWING TITLE DRAINAGE SYSTEM PLAN(1) S=1:1000	PACKAGE 0 DWG No. P0-RD-3010
NAME	SIGNATURE	DATE																
PREPARED BY K. TACHIBANA		29 Sep.2017																
CHECKED BY T. HAYAKAWA		3 Oct.2017																
APPROVED BY Y. SANO		6 Oct.2017																

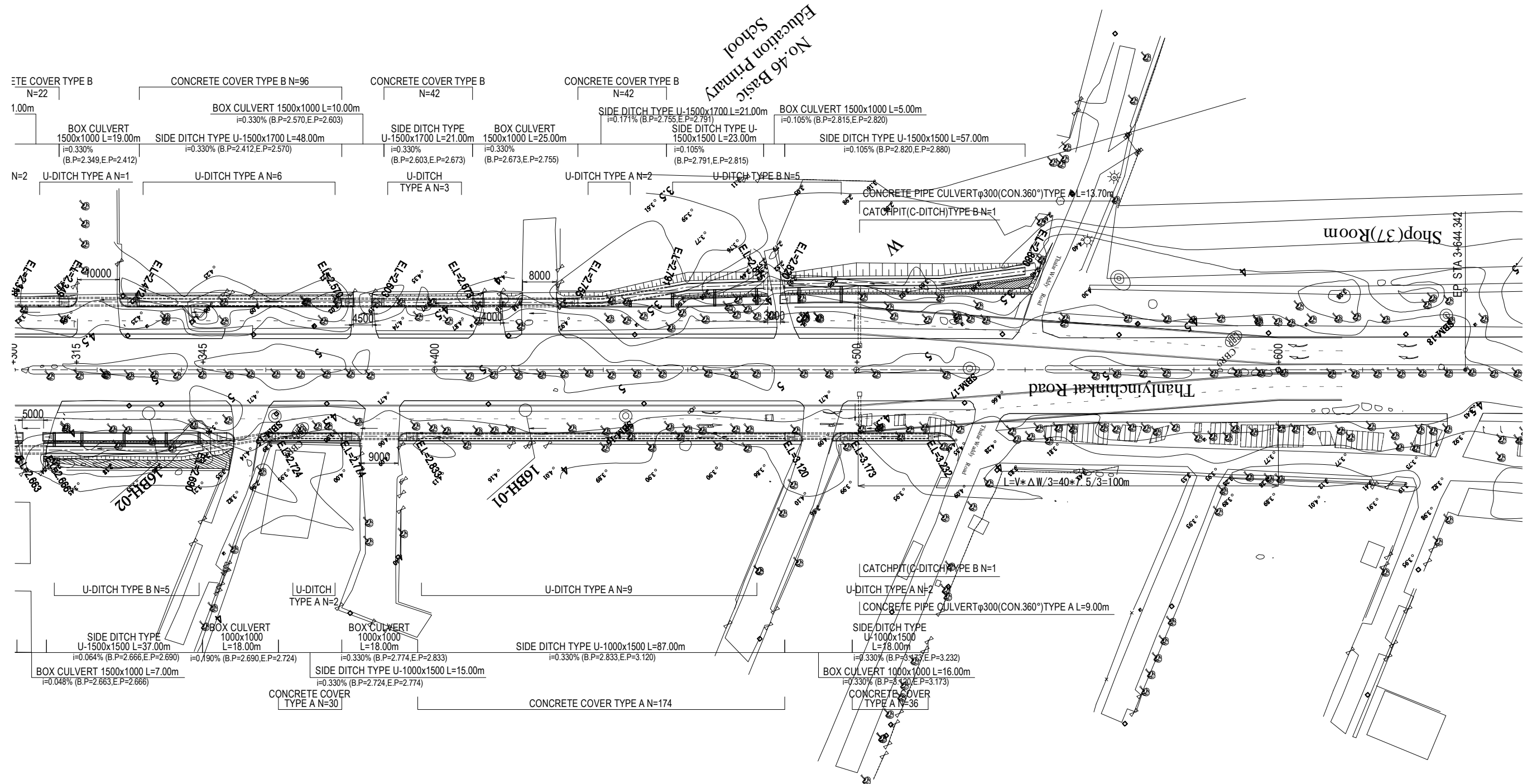
DRAINAGE SYSTEM PLAN(2) H= 1:1000



PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">NAME</th> <th style="width: 15%;">SIGNATURE</th> <th style="width: 15%;">DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY K. TACHIBANA</td> <td></td> <td>29 Sep.2017</td> </tr> <tr> <td>CHECKED BY T. HAYAKAWA</td> <td></td> <td>3 Oct.2017</td> </tr> <tr> <td>APPROVED BY Y. SANO</td> <td></td> <td>6 Oct.2017</td> </tr> </tbody> </table>	NAME	SIGNATURE	DATE	PREPARED BY K. TACHIBANA		29 Sep.2017	CHECKED BY T. HAYAKAWA		3 Oct.2017	APPROVED BY Y. SANO		6 Oct.2017	DRAWING TITLE DRAINAGE SYSTEM PLAN(2) S=1:1000	PACKAGE 0 DWG No. P0-RD-3020
NAME	SIGNATURE	DATE																
PREPARED BY K. TACHIBANA		29 Sep.2017																
CHECKED BY T. HAYAKAWA		3 Oct.2017																
APPROVED BY Y. SANO		6 Oct.2017																

DRAINAGE SYSTEM PLAN(3) H= 1:1000

Note : Bottom elevations of each drainage at beginning point side and end point side be shown in the brackets like as (B.P=1.968, E.P=2.034) .

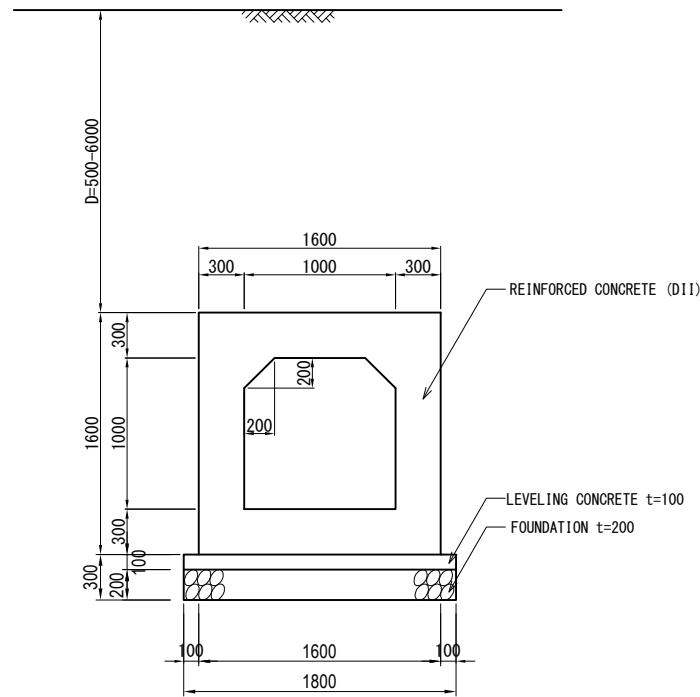


PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NAME</th> <th style="width: 10%;">SIGNATURE</th> <th style="width: 10%;">DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY K. TACHIBANA</td> <td></td> <td>29 Sep.2017</td> </tr> <tr> <td>CHECKED BY T. HAYAKAWA</td> <td></td> <td>3 Oct.2017</td> </tr> <tr> <td>APPROVED BY Y. SANO</td> <td></td> <td>6 Oct.2017</td> </tr> </tbody> </table>	NAME	SIGNATURE	DATE	PREPARED BY K. TACHIBANA		29 Sep.2017	CHECKED BY T. HAYAKAWA		3 Oct.2017	APPROVED BY Y. SANO		6 Oct.2017	DRAWING TITLE DRAINAGE SYSTEM PLAN(3) S=1:1000	PACKAGE 0 DWG No. P0-RD-3030
NAME	SIGNATURE	DATE																
PREPARED BY K. TACHIBANA		29 Sep.2017																
CHECKED BY T. HAYAKAWA		3 Oct.2017																
APPROVED BY Y. SANO		6 Oct.2017																

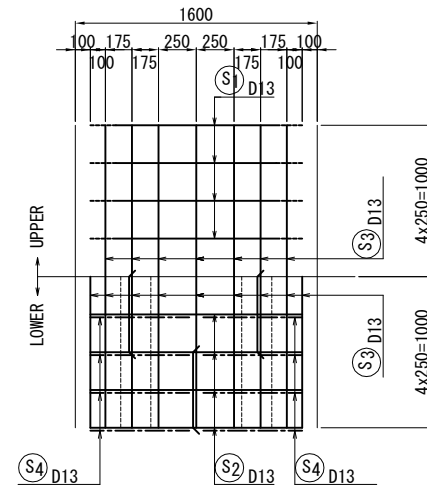
DETAIL OF BOX CULVERT TYPE 1000 x 1000

BAR ARRANGEMENT OF BOX CULVERT S=1/50

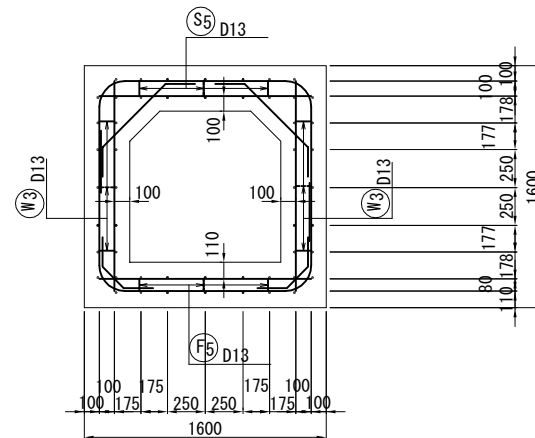
GENERAL DRAWING S=1:50



TOP SLAB



SECTION S=1:50



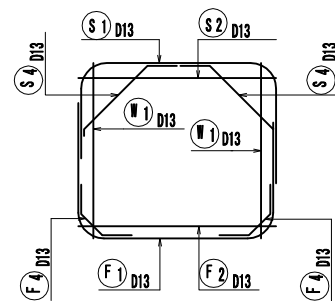
DESIGN CRITERIA

INSIDE DIMENSION		WIDTH	1.00 m
		HEIGHT	1.00 m
LIVE LOAD		T-TYPE LIVE LOAD	
UNIT WEIGHT	REINFORCED CONCRETE	24.5 kN/m ³	
	SOIL	18 kN/m ³	
CONCRETE DESIGN STRENGTH		24 N/mm ²	
ALLOWABLE STRESS			
COMPRESSIVE STRESS DUE TO BENDING		8 N/mm ²	
SHEARING STRESS		0.39 N/mm ²	
TENSILE STRESS (SD345)		160 N/mm ²	
COEFFICIENT OF EARTH PRESSURE		0.5	
IMPACT COEFFICIENT		-	
SEISMIC COEFFICIENT		-	
ANGLE OF SKEW		90°00'00"	
RADIUS OF CURVATURE		R=∞	
GRADIENT OF BOX CULVERT		i=0.500%	

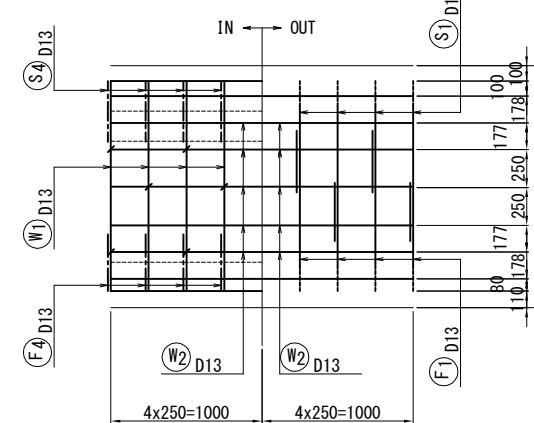
(PER 1m)

MARK	No.	SEC.	EACH	LENGTH (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	H (mm)	R (mm)
S 1	4	D13	4	3080	600	220	1120	920		140
S 2	1	D13	4	1400	1400					
S 3	1	D13	16	1000	1000					
S 4	5	D13	8	1040	195	649			459	
S 5	3	D13	3	980		126				
W 1	1	D13	8	1390	1390					
W 2	1	D13	20	1000	1000					
W 3	2	D13	12	360		152				
F 1	4	D13	4	3080	600	220	1120	920		140
F 2	1	D13	4	1400	1400					
F 3	1	D13	16	1000	1000					
F 4	5	D13	8	650	195	255			180	
F 5	3	D13	3	940		106				

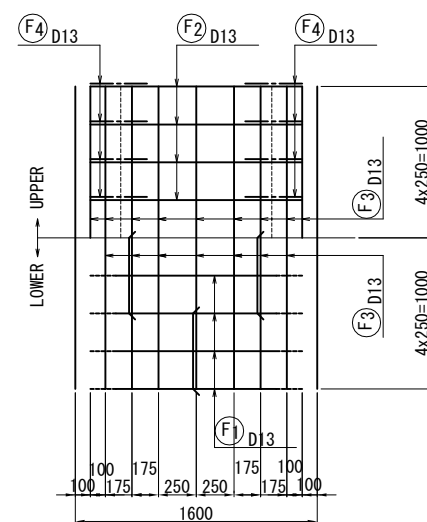
ERECTION DIAGRAM OF MAIN REINFORCEMENT



SIDE SLAB



BOTTOM SLAB



MATERIALS

KIND		UNIT	QUANTITY (PER 1m)
CONCRETE (D11)	TOP	m ³	0.480
	SIDE	m ³	0.640
	BOTTOM	m ³	0.480
	TOTAL	m ³	1.600
FORM		m ²	5.966
REINFORCING BAR	D19	kg	0
	D16	kg	0
	D13	kg	121.950
	TOTAL	kg	121.950
FOUNDATION		m ²	0.180
LEVELING CONCRETE t=100		m ²	0.180
CRUSHED STONE t=200		m ²	0.360

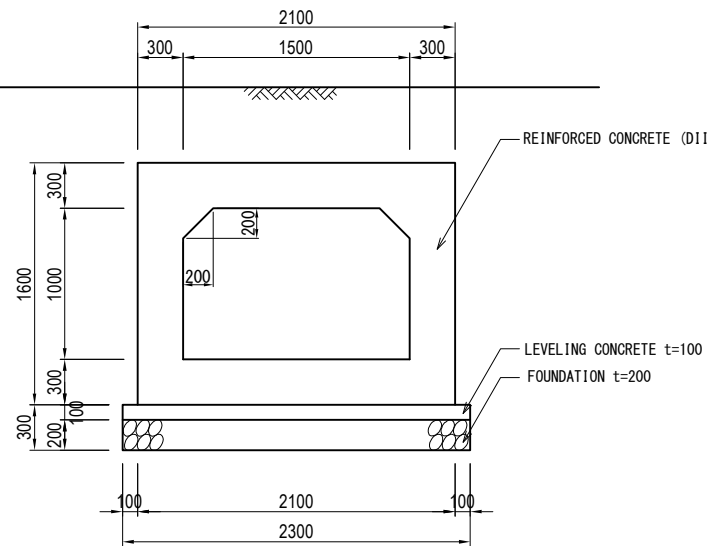
D	a (mm)	b (mm)	c (mm)	R (mm)	L (mm)
D13	66	164	230	42	410
D16	75	195	270	48	500
D19	94	236	330	60	600
D22	104	266	370	66	690
D25	122	308	430	78	790
D29	141	349	490	90	910
D32	151	389	540	96	1000

Note1: Size of Box Culvert and Bar Arrangement are based on Standard Drawing of Ministry of Land, Infrastructure, Transport and Tourism of Japan
 Note2: Specification of Steel Reinforcement Bar shall comply with SD345 (JIS G3112) or equivalent

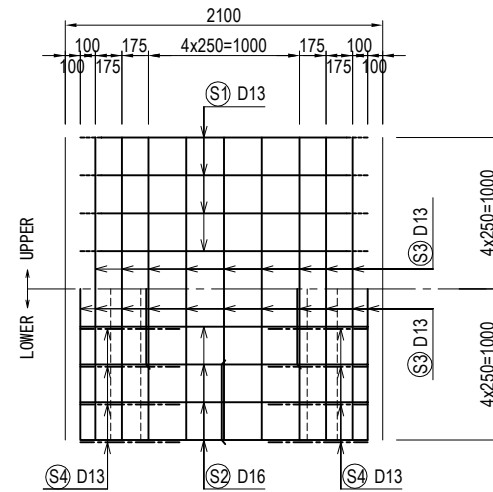
DETAIL OF BOX CULVERT TYPE 1500 x 1000

BAR ARRANGEMENT OF BOX CULVERT S=1/50

GENERAL DRAWING S=1:50



TOP SLAB



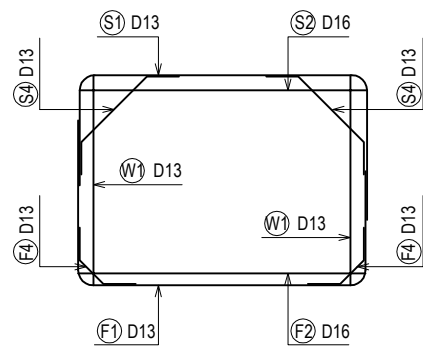
DESIGN CRITERIA

INSIDE DIMENSION		WIDTH	1.50 m
		HEIGHT	1.00 m
LIVE LOAD		T-TYPE LIVE LOAD	
UNIT WEIGHT	REINFORCED CONCRETE	24.5 kN/m ³	
	SOIL	18 kN/m ³	
CONCRETE DESIGN STRENGTH		24 N/mm ²	
ALLOWABLE STRESS			
COMPRESSIVE STRESS DUE TO BENDING		8 N/mm ²	
SHEARING STRESS		0.39 N/mm ²	
TENSILE STRESS (SD345)		160 N/mm ²	
COEFFICIENT OF EARTH PRESSURE		0.5	
IMPACT COEFFICIENT		-	
SEISMIC COEFFICIENT		-	
ANGLE OF SKEW		90°00'00"	
RADIUS OF CURVATURE		R=∞	
GRADIENT OF BOX CULVERT		i=0.500%	

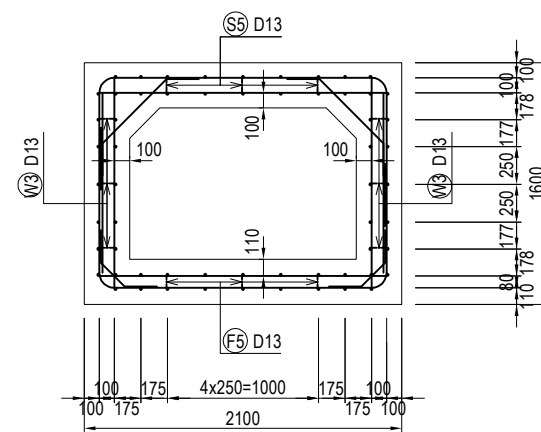
(PER 1m)

MARK	No.	SEC.	EACH	LENGTH (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	H (mm)	R (mm)
S 1	4	D13	4	3500	600	220	1620	840		140
S 2	1	D16	4	1900	1900					
S 3	1	D13	20	1000	1000					
S 4	5	D13	8	1040	195	649			459	
S 5	3	D13	3	990		128				
W 1	1	D13	8	1390	1390					
W 2	1	D13	20	1000	1000					
W 3	2	D13	12	360		152				
F 1	4	D13	4	3660	680	220	1620	920		140
F 2	1	D16	4	1900	1900					
F 3	1	D13	20	1000	1000					
F 4	5	D13	8	650	195	255			180	
F 5	3	D13	3	950		108				

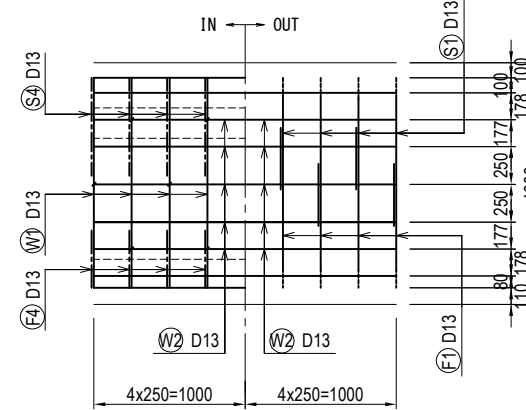
ERECTION DIAGRAM OF MAIN REINFORCEMENT



SECTION S=1:50



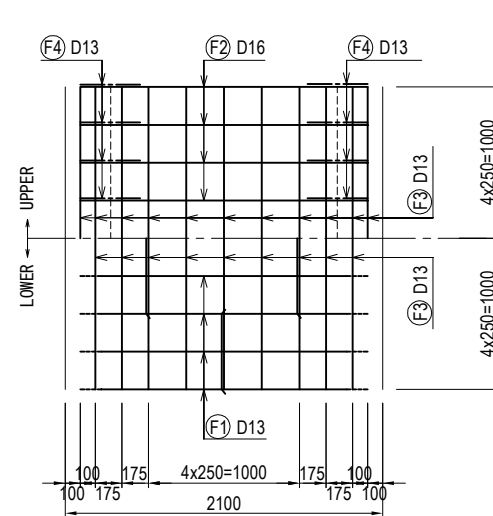
SIDE SLAB



LIST OF REINFORCEMENT (PER 1m)

MARK	SEC.	LENGTH (mm)	EACH	WEIGHT (kg/m)	WEIGHT/one (kg)	WEIGHT (kg)	REMARKS
S 1	D13	3500	4	0.995	3.483	13.932	□
S 2	D16	1900	4	1.56	2.964	11.856	—
S 3	D13	1000	20	0.995	0.995	19.900	—
S 4	D13	1040	8	0.995	1.035	8.280	□
S 5	D13	990	3	0.995	0.985	2.955	□
W 1	D13	1390	8	0.995	1.383	11.064	—
W 2	D13	1000	20	0.995	0.995	19.900	—
W 3	D13	360	12	0.995	0.358	4.296	—
F 1	D13	3660	4	0.995	3.642	14.568	□
F 2	D16	1900	4	1.56	2.964	11.856	—
F 3	D13	1000	20	0.995	0.995	19.900	—
F 4	D13	650	8	0.995	0.647	5.176	□
F 5	D13	950	3	0.995	0.945	2.835	□

BOTTOM SLAB



MATERIALS (PER 1m)

KIND	UNIT	QUANTITY
CONCRETE (DII)	TOP	m ³ 0.630
	SIDE	m ³ 0.640
	BOTTOM	m ³ 0.630
	TOTAL	m ³ 1.900
FORM	m ²	6.466
REINFORCING BAR	D19	kg 0
	D16	kg 23.712
	D13	kg 122.806
	TOTAL	kg 146.518
FOUNDATION	LEVELING CONCRETE t=100	m ² 0.230
	CRUSHED STONE t=200	m ² 0.460

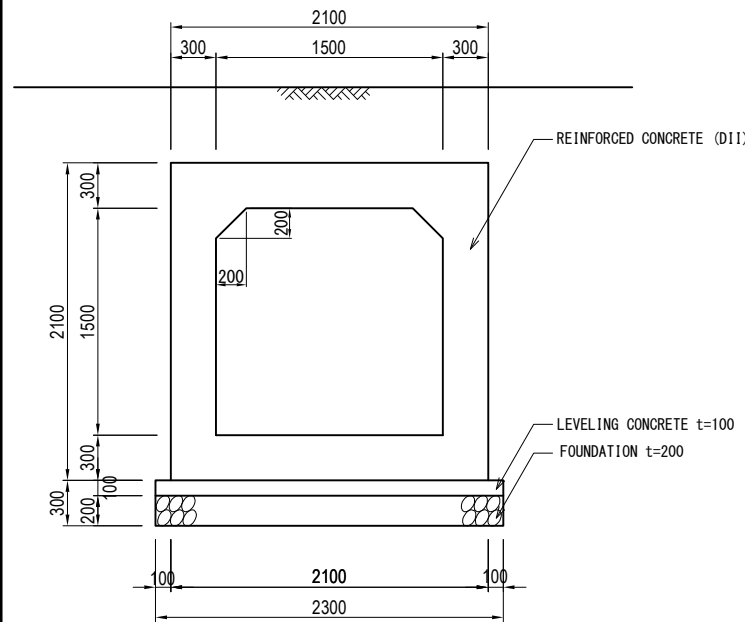
D (mm)	a (mm)	b (mm)	c (mm)	R (mm)	L (mm)
D13	66	164	230	42	410
D16	75	195	270	48	500
D19	94	236	330	60	600
D22	104	266	370	66	690
D25	122	308	430	78	790
D29	141	349	490	90	910
D32	151	389	540	96	1000

Note1: Size of Box Culvert and Bar Arrangement are based on Standard Drawing of Ministry of Land, Infrastructure, Transport and Tourism of Japan
 Note2: Specification of Steel Reinforcement Bar shall comply with SD345 (JIS G3112) or equivalent

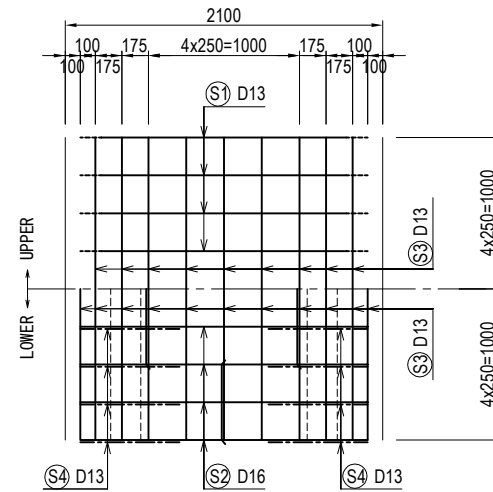
DETAIL OF BOX CULVERT TYPE 1500 x 1500

BAR ARRANGEMENT OF BOX CULVERT S=1/50

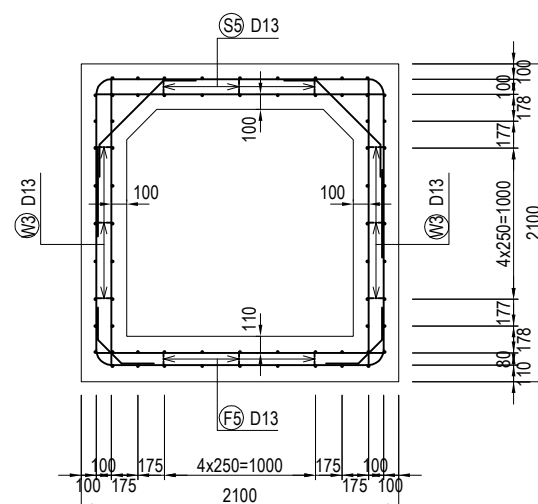
GENERAL DRAWING S=1:50



TOP SLAB



SECTION S=1:50



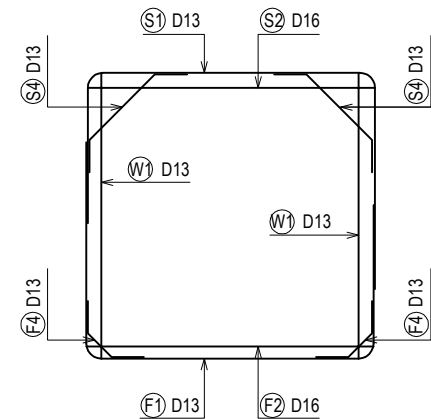
DESIGN CRITERIA

INSIDE DIMENSION		WIDTH	1.50 m
		HEIGHT	1.50 m
LIVE LOAD		T-TYPE LIVE LOAD	
UNIT WEIGHT	REINFORCED CONCRETE	24.5 kN/m ³	
	SOIL	18 kN/m ³	
CONCRETE DESIGN STRENGTH		24 N/mm ²	
ALLOWABLE STRESS			
COMPRESSIVE STRESS DUE TO BENDING		8 N/mm ²	
SHEARING STRESS		0.39 N/mm ²	
TENSILE STRESS (SD345)		160 N/mm ²	
COEFFICIENT OF EARTH PRESSURE		0.5	
IMPACT COEFFICIENT		-	
SEISMIC COEFFICIENT		-	
ANGLE OF SKEW		90°00'00"	
RADIUS OF CURVATURE		R=∞	
GRADIENT OF BOX CULVERT		i=0.500%	

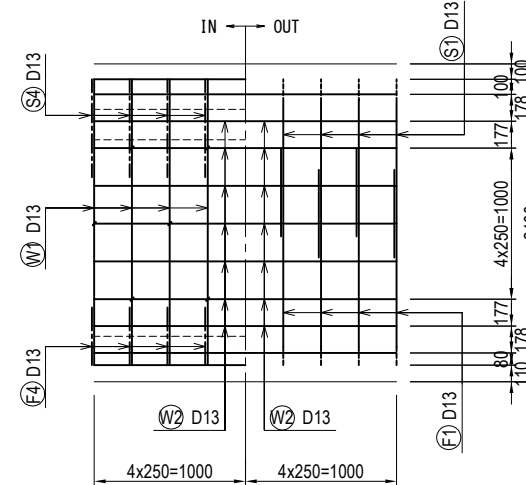
(PER 1m)

MARK	No.	SEC.	EACH	LENGTH (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	H (mm)	R (mm)
S 1	4	D13	4	4000	900					140
S 2	1	D16	4	1900	1900					
S 3	1	D13	20	1000	1000					
S 4	5	D13	8	1040	195	649				459
S 5	3	D13	3	990		128				
W 1	1	D13	8	1890	1890					
W 2	1	D13	28	1000	1000					
W 3	2	D13	12	360		152				
F 1	4	D13	4	4500	1150	220	1620	1290		140
F 2	1	D16	4	1900	1900					
F 3	1	D13	20	1000	1000					
F 4	5	D13	8	650	195	255				180
F 5	3	D13	3	950		108				

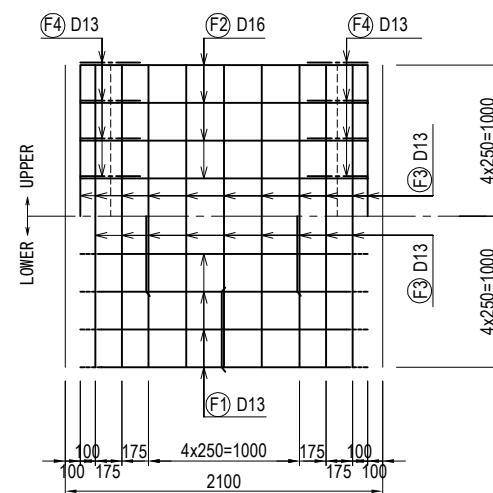
ERECTION DIAGRAM OF MAIN REINFORCEMENT



SIDE SLAB



BOTTOM SLAB



MATERIALS

KIND	UNIT	QUANTITY (PER 1m)
CONCRETE (D11)	TOP	m ³ 0.630
	SIDE	m ³ 0.940
	BOTTOM	m ³ 0.630
	TOTAL	m ³ 2.200
FORM	m ²	8.466
REINFORCING BAR	D19	kg 0
	D16	kg 23.712
	D13	kg 140.082
TOTAL	kg	163.794
FOUNDATION	LEVELING CONCRETE t=100	m ² 0.230
	CRUSHED STONE t=200	m ² 0.460

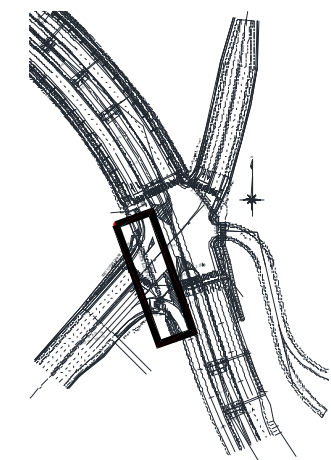
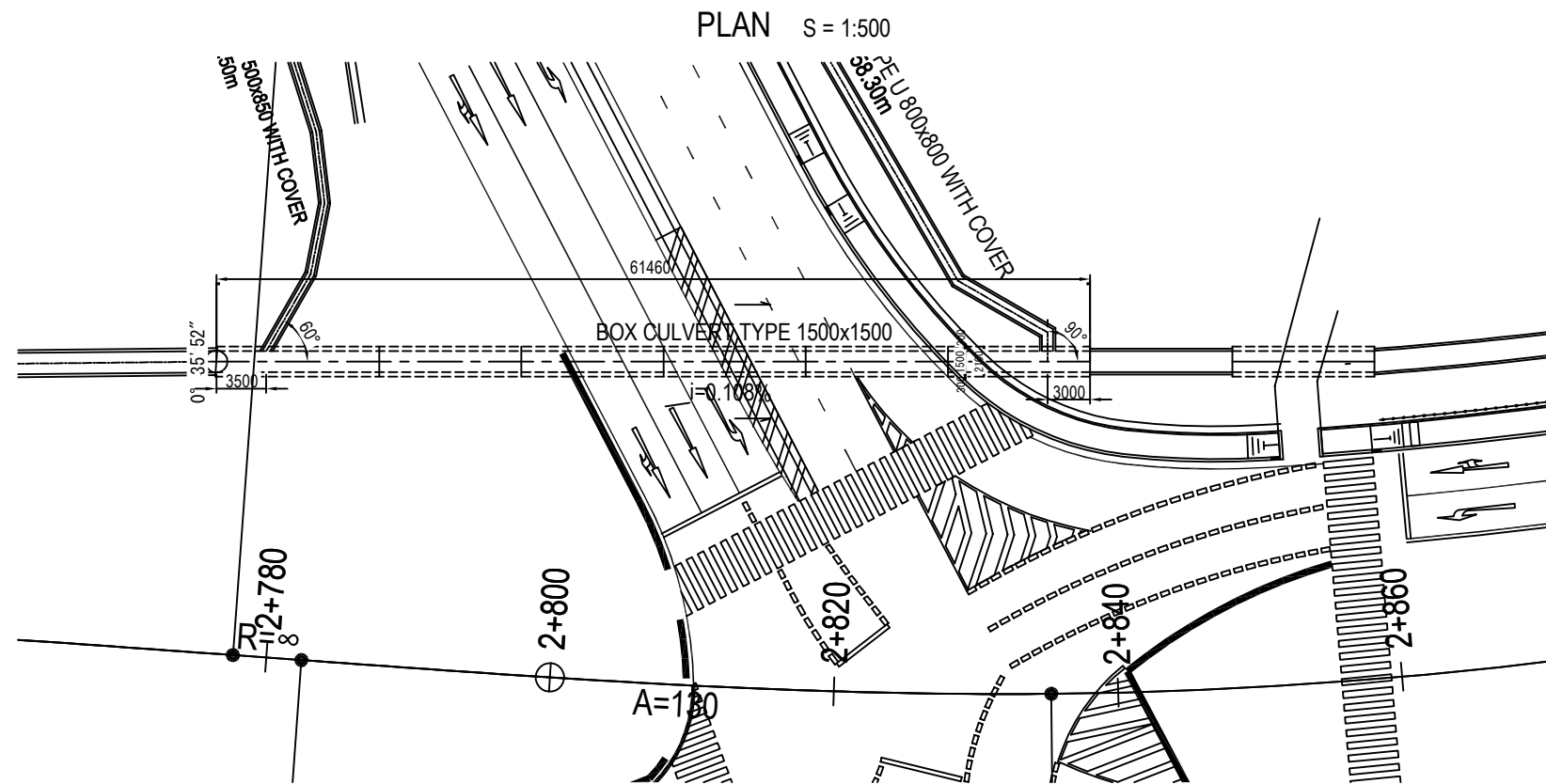
LIST OF REINFORCEMENT (PER 1m)

MARK	SEC.	LENGTH (mm)	EACH	WEIGHT (kg/m)	WEIGHT/one (kg)	WEIGHT (kg)	REMARKS
S 1	D13	4000	4	0.995	3.980	15.920	□
S 2	D16	1900	4	1.56	2.964	11.856	—
S 3	D13	1000	20	0.995	0.995	19.900	—
S 4	D13	1040	8	0.995	1.035	8.280	□
S 5	D13	990	3	0.995	0.985	2.955	□
W 1	D13	1890	8	0.995	1.881	15.048	—
W 2	D13	1000	28	0.995	0.995	27.860	—
W 3	D13	360	12	0.995	0.358	4.296	□
F 1	D13	4500	4	0.995	4.478	17.912	□
F 2	D16	1900	4	1.56	2.964	11.856	—
F 3	D13	1000	20	0.995	0.995	19.900	—
F 4	D13	650	8	0.995	0.647	5.176	□
F 5	D13	950	3	0.995	0.945	2.835	□

D	a (mm)	b (mm)	c (mm)	R (mm)	L (mm)
D13	66	164	230	42	410
D16	75	195	270	48	500
D19	94	236	330	60	600
D22	104	266	370	66	690
D25	122	308	430	78	790
D29	141	349	490	90	910
D32	151	389	540	96	1000

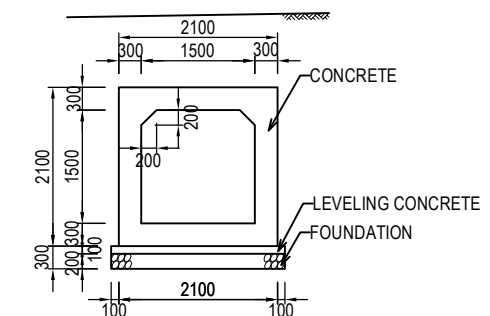
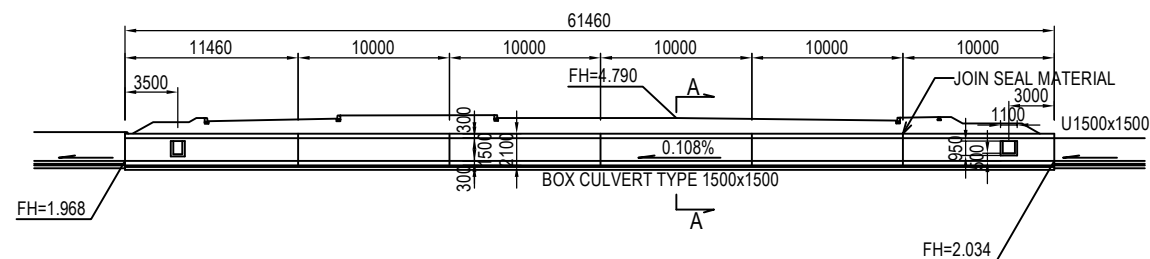
Note1: Size of Box Culvert and Bar Arrangement are based on Standard Drawing of Ministry of Land, Infrastructure, Transport and Tourism of Japan
 Note2: Specification of Steel Reinforcement Bar shall comply with SD345 (JIS G3112) or equivalent

GENERAL VIEW OF BOX CULVERT (1) SHUKHINTHAR (LEFT SIDE)



KEY PLAN S=1:5000

PROFILE S = 1:500

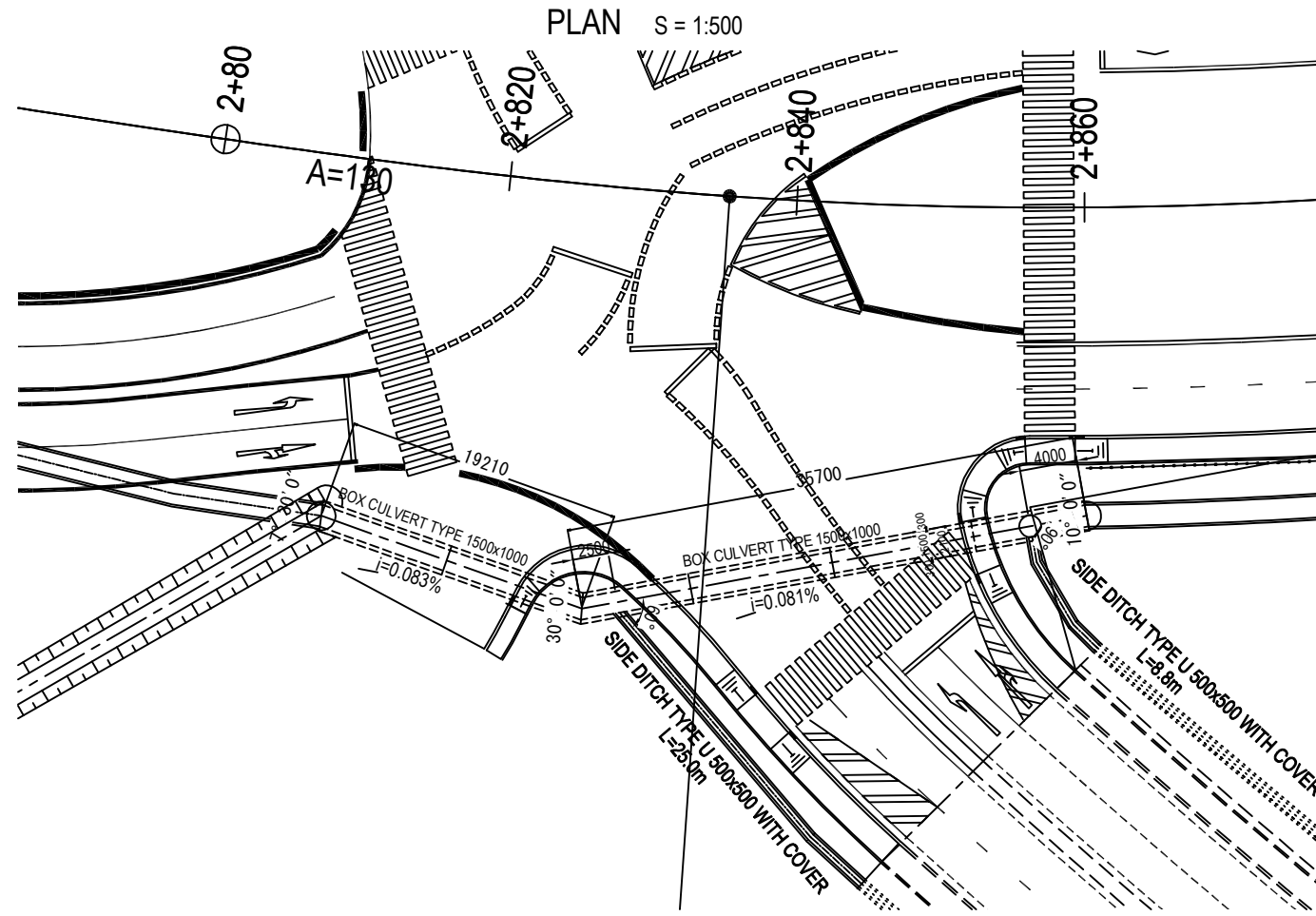


SECTION A - A S = 1:100

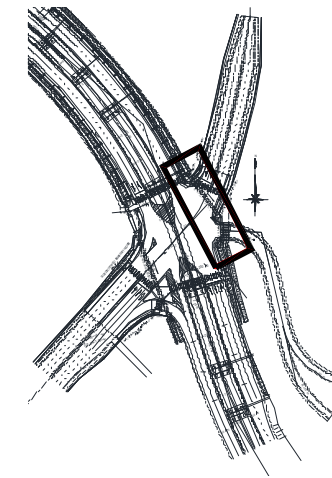
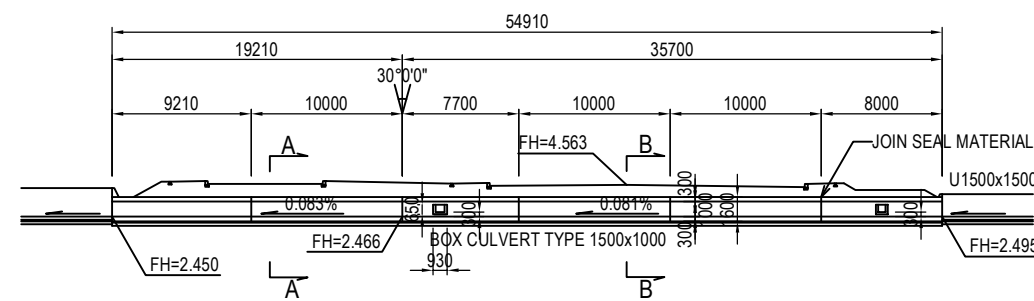
- Note
1. Specification of Reinforced Concrete should be CLASS DII
 2. Specification of Steel reinforcement bar should be SD345

<small>PROJECT NAME</small> DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	<small>FINANCED BY</small> JAPAN INTERNATIONAL COOPERATION AGENCY	<small>COUNTERPART</small> REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	<small>JICA STUDY TEAM</small> NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">NAME</th> <th style="text-align: left;">SIGNATURE</th> <th style="text-align: left;">DATE</th> </tr> <tr> <td>PREPARED BY</td> <td>K. TACHIBANA</td> <td>29 Sep.2017</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>3 Oct.2017</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>6 Oct.2017</td> </tr> </table>	NAME	SIGNATURE	DATE	PREPARED BY	K. TACHIBANA	29 Sep.2017	CHECKED BY	T. HAYAKAWA	3 Oct.2017	APPROVED BY	Y. SANO	6 Oct.2017	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">DRAWING TITLE</th> <th style="text-align: left;">PACKAGE</th> </tr> <tr> <td rowspan="3" style="text-align: center;"> GENERAL VIEW OF BOX CULVERT (1) SHUKHINTHAR (LEFT SIDE) </td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">DWG No.</td> </tr> <tr> <td style="text-align: center;">P0-RD-3070</td> </tr> </table>	DRAWING TITLE	PACKAGE	GENERAL VIEW OF BOX CULVERT (1) SHUKHINTHAR (LEFT SIDE)	0	DWG No.	P0-RD-3070
NAME	SIGNATURE	DATE																					
PREPARED BY	K. TACHIBANA	29 Sep.2017																					
CHECKED BY	T. HAYAKAWA	3 Oct.2017																					
APPROVED BY	Y. SANO	6 Oct.2017																					
DRAWING TITLE	PACKAGE																						
GENERAL VIEW OF BOX CULVERT (1) SHUKHINTHAR (LEFT SIDE)	0																						
	DWG No.																						
	P0-RD-3070																						

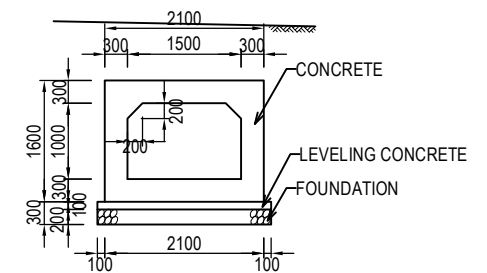
GENERAL VIEW OF BOX CULVERT (2) SHUKHINTHAR (RIGHT SIDE)



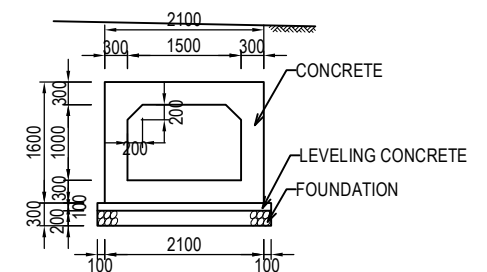
PROFILE S = 1:500



KEY PLAN S=1:5000



SECTION B - B S = 1:100



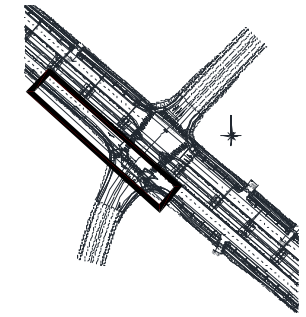
SECTION A - A S = 1:100

- Note
1. Specification of Reinforced Concrete should be CLASS DII
 2. Specification of Steel reinforcement bar should be SD345

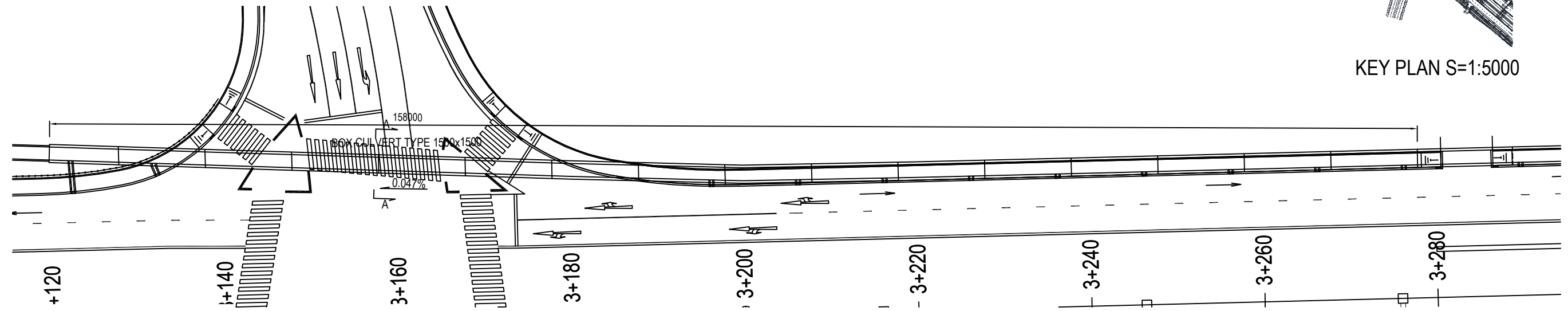
<small>PROJECT NAME</small> DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	<small>FINANCED BY</small> JAPAN INTERNATIONAL COOPERATION AGENCY	<small>COUNTERPART</small> REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	<small>JICA STUDY TEAM</small> NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO. LTD.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">NAME</th> <th style="width: 10%;">SIGNATURE</th> <th style="width: 10%;">DATE</th> </tr> <tr> <td>PREPARED BY</td> <td>K. TACHIBANA</td> <td>29 Sep.2017</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>3 Oct.2017</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>6 Oct.2017</td> </tr> </table>	NAME	SIGNATURE	DATE	PREPARED BY	K. TACHIBANA	29 Sep.2017	CHECKED BY	T. HAYAKAWA	3 Oct.2017	APPROVED BY	Y. SANO	6 Oct.2017	DRAWING TITLE GENERAL VIEW OF BOX CULVERT (2) SHUKHINTHAR (RIGHT SIDE)	PACKAGE 0 DWG No. P0-RD-3080
NAME	SIGNATURE	DATE																
PREPARED BY	K. TACHIBANA	29 Sep.2017																
CHECKED BY	T. HAYAKAWA	3 Oct.2017																
APPROVED BY	Y. SANO	6 Oct.2017																

GENERAL VIEW OF BOX CULVERT (3) YADANAR (LEFT SIDE)

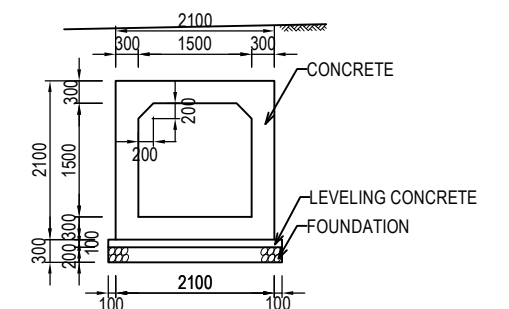
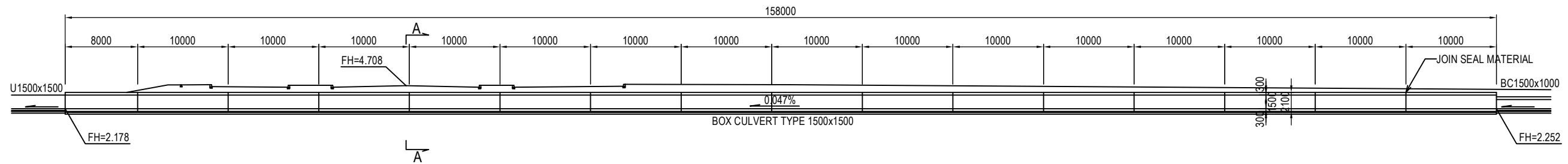
PLAN S = 1:500



KEY PLAN S=1:5000



PROFILE S = 1:500



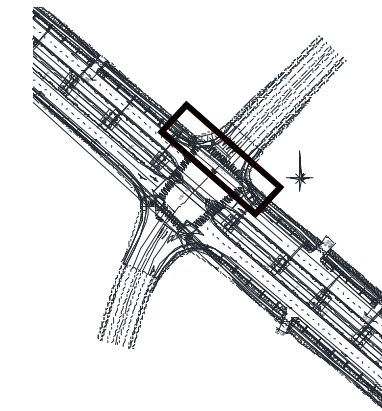
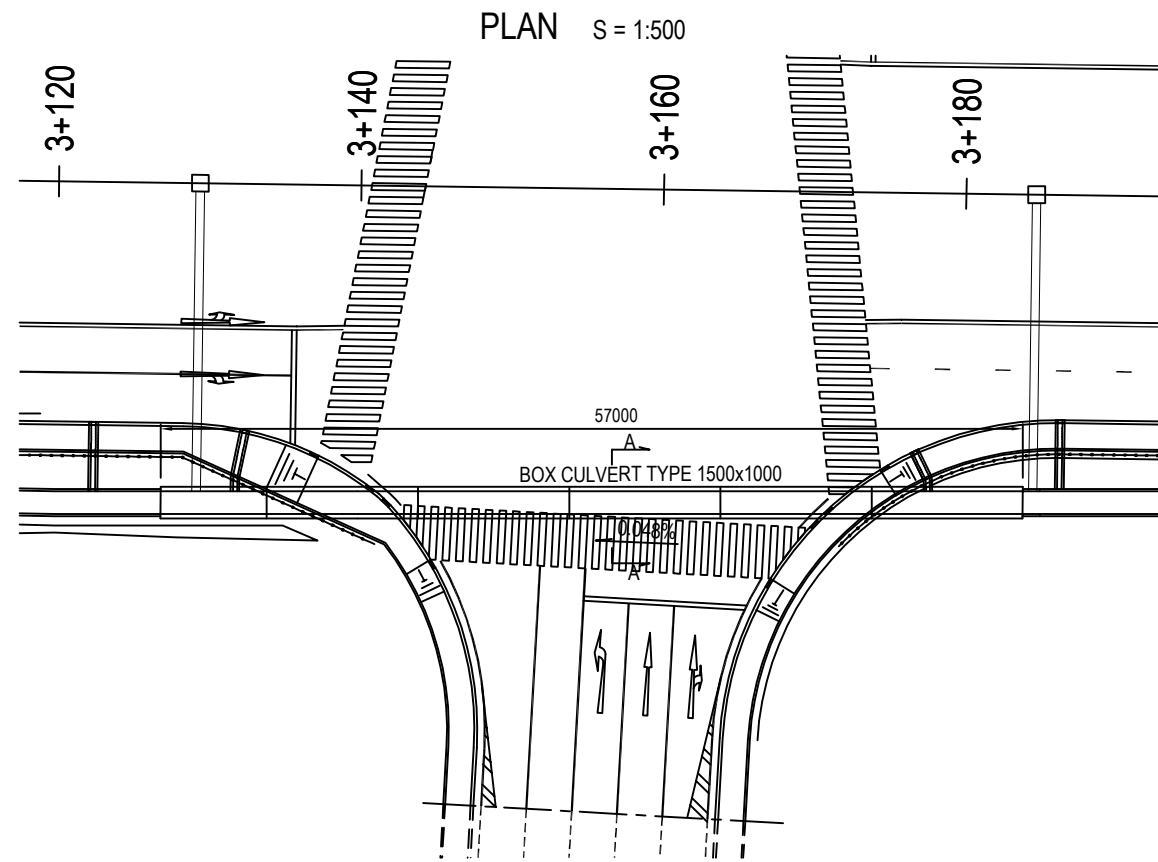
SECTION A - A S = 1:100

Note

1. Specification of Reinforced Concrete should be CLASS DII
2. Specification of Steel reinforcement bar should be SD345

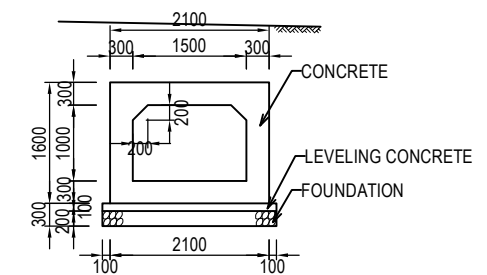
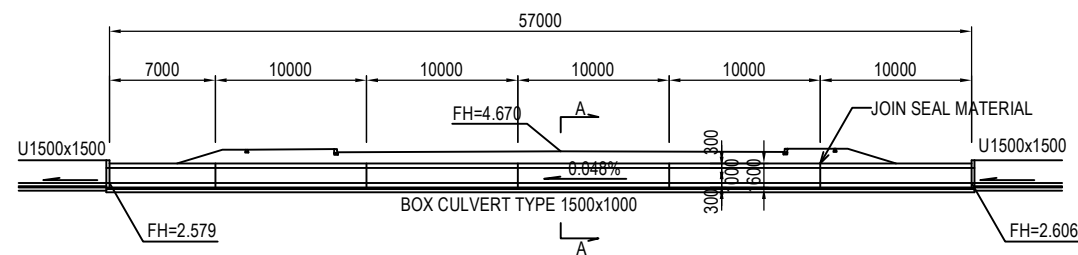
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE GENERAL VIEW OF BOX CULVERT (3) YADANAR (LEFT SIDE)	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P3-RD-3090

GENERAL VIEW OF BOX CULVERT (4) YADANAR (RIGHT SIDE)



KEY PLAN S=1:5000

PROFILE S = 1:500



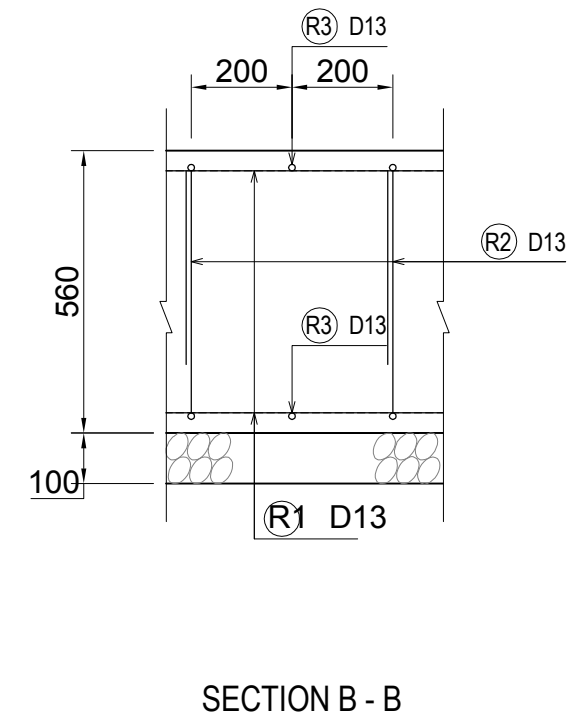
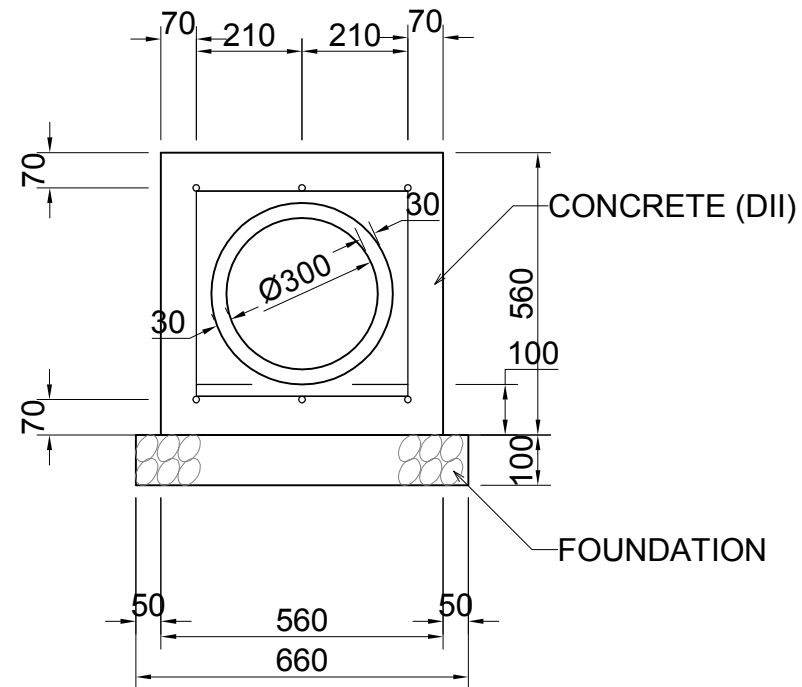
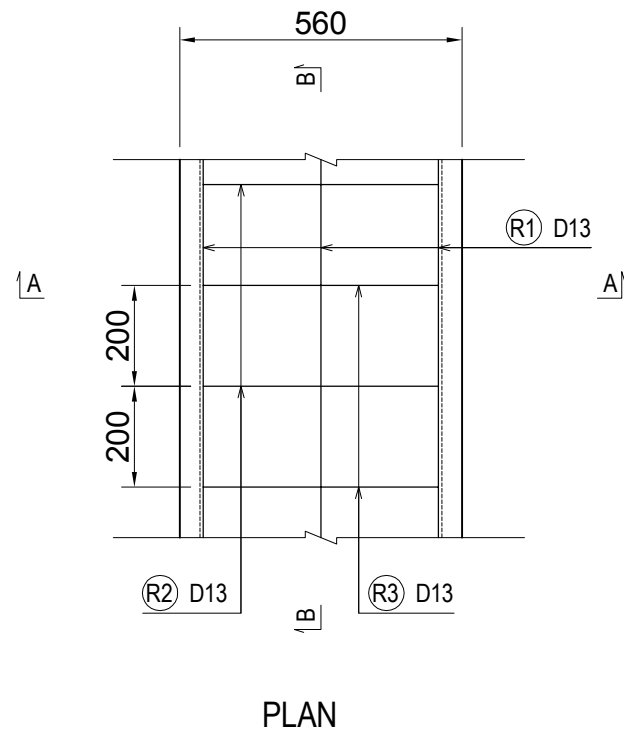
SECTION A - A S = 1:100

- Note
1. Specification of Reinforced Concrete should be CLASS DII
 2. Specification of Steel reinforcement bar should be SD345

<small>PROJECT NAME</small> DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	<small>FINANCED BY</small> JAPAN INTERNATIONAL COOPERATION AGENCY	<small>COUNTERPART</small> REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	<small>JICA STUDY TEAM</small> NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">NAME</th> <th style="text-align: left;">SIGNATURE</th> <th style="text-align: left;">DATE</th> </tr> <tr> <td>PREPARED BY K. TACHIBANA</td> <td></td> <td>29 Sep.2017</td> </tr> <tr> <td>CHECKED BY T. HAYAKAWA</td> <td></td> <td>3 Oct.2017</td> </tr> <tr> <td>APPROVED BY Y. SANO</td> <td></td> <td>6 Oct.2017</td> </tr> </table>	NAME	SIGNATURE	DATE	PREPARED BY K. TACHIBANA		29 Sep.2017	CHECKED BY T. HAYAKAWA		3 Oct.2017	APPROVED BY Y. SANO		6 Oct.2017	<small>DRAWING TITLE</small> GENERAL VIEW OF BOX CULVERT (4) YADANAR (RIGHT SIDE)	<small>PACKAGE</small> 0 <small>DWG No.</small> P3-RD-3100
NAME	SIGNATURE	DATE																
PREPARED BY K. TACHIBANA		29 Sep.2017																
CHECKED BY T. HAYAKAWA		3 Oct.2017																
APPROVED BY Y. SANO		6 Oct.2017																

DETAIL OF CONCRETE PIPE CULVERT $\Phi 300$ (CON.360°) TYPE A S= 1:15

CONCRETE PIPE CULVERT $\Phi 300$ (CON.360°)TYPE A A - A



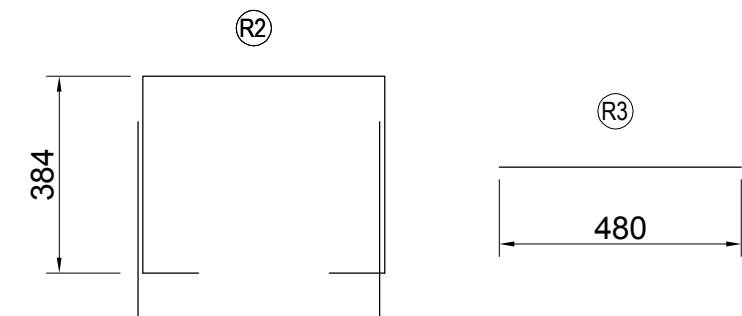
WORK QUANTITIES PER UNIT (PER 10m)

ITEM	UNIT	QUANTITY	REMARKS
R.C.PIPE $\Phi 300$	m	10.000	JIS A 5303 CLASS 1
CONCRETE (DII)	m ³	2.118	28 days = 240 kg/cm ²
FOUNDATION	m ²	6.600	GRAVEL / t=100mm
FORM	m ²	11.200	

WORK QUANTITIES PER UNIT FOR REINFORCEMENT BAR (PER 1.0m)

Dia	Nos	Length (mm/nos)	Unit Weight (kg/m)	Weight (kg)	Remarks
D13	6	1,000	0.995	5.970	Ⓡ1 / SD345
D13	5	420	0.995	2.090	Ⓡ2 / SD345
D13	5	1,310	0.995	6.517	Ⓡ3 / SD345
TOTAL				14.557	

DETAIL OF STEEL REINFORCEMENT



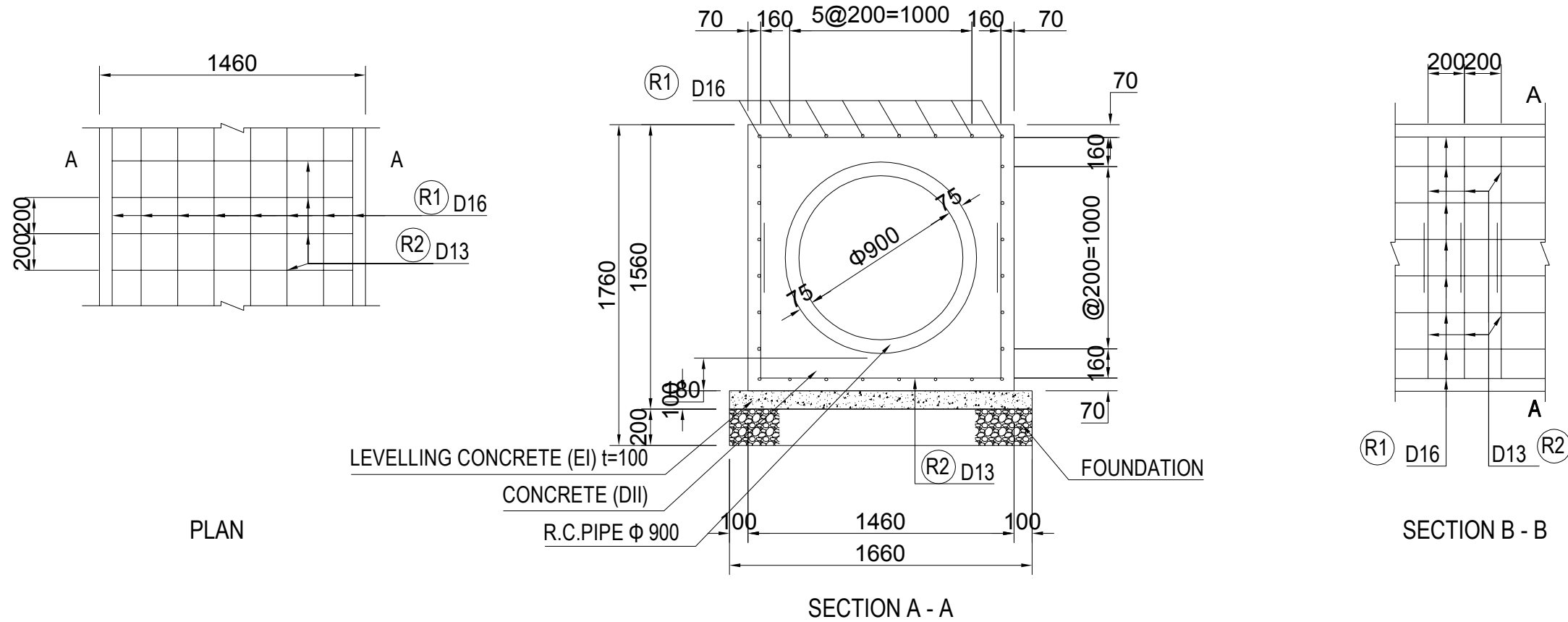
Note: Precast R.C. Pipe $\Phi 300$, Reinforced Spun and Centrifugal Reinforced Concrete Pipes shall be Selected.

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME PREPARED BY K. TACHIBANA CHECKED BY T. HAYAKAWA APPROVED BY Y. SANO	SIGNATURE 	DATE 29 Sep.2017 3 Oct.2017 6 Oct.2017	DRAWING TITLE DETAIL OF CONCRETE PIPE CULVERT $\Phi 300$ (CON.360°) TYPE A S=1:15	PACKAGE 0 DWG No. P0-RD-3110
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DETAIL OF CONCRETE PIPE CULVERT $\Phi 900$ (CON.360°) S= 1:30

CONCRETE PIPE CULVERT
 $\Phi 900$ (CON.360°)

A - A



WORK QUANTITIES PER UNIT (PER 10m)

ITEM	UNIT	QUANTITY	REMARKS
R.C.PIPE $\Phi 900$	m	10.000	JIS A 5303 CLASS 1
CONCRETE (DII)	m ³	12.657	28 days = 240 kg/cm ²
FOUNDATION	m ²	16.600	GRAVEL / t=200mm
FORM	m ²	29.200	
LEVELLING CONCRETE (EI)	m ³	1.660	t=100

WORK QUANTITIES PER UNIT FOR REINFORCEMENT BAR (PER 1.0m)

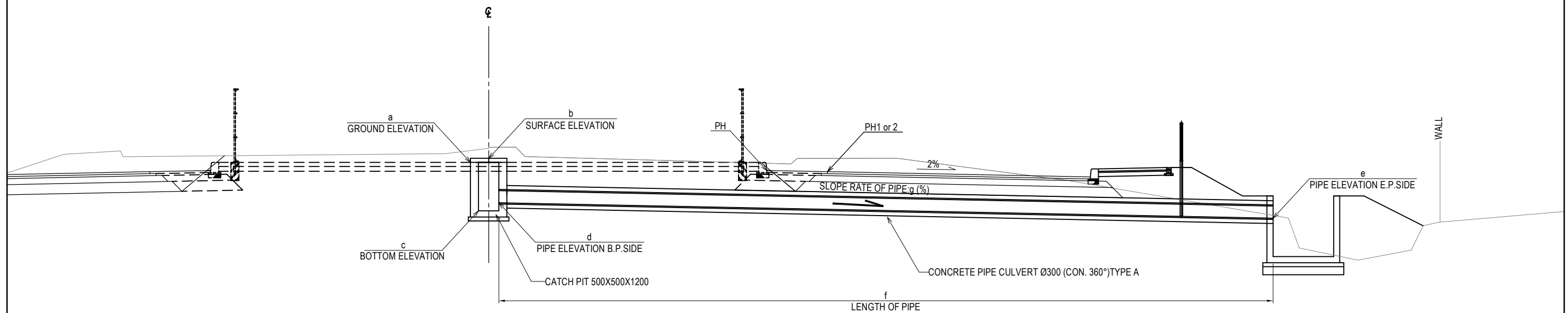
Dia	Nos	Length (mm/nos)	Unit Weight (kg/m)	Weight (kg)	Remarks
D13	10	3,110	0.995	30.945	(R2) / SD345
D16	28	1,000	1.560	43.680	(R1) / SD345
TOTAL				74.625	

Note: Precast R.C. Pipe $\Phi 900$, Reinforced Spun and Centrifugal Reinforced Concrete Pipes shall be Selected.

PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY jica JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE DETAIL OF CONCRETE PIPE CULVERT $\Phi 900$ (CON.360°) S=1:30	PACKAGE 0 DWG No. PO-RD-3120
				PREPARED BY	K. TACHIBANA	29 Sep.2017		
				CHECKED BY	T. HAYAKAWA	3 Oct.2017		
				APPROVED BY	Y. SANO	6 Oct.2017		

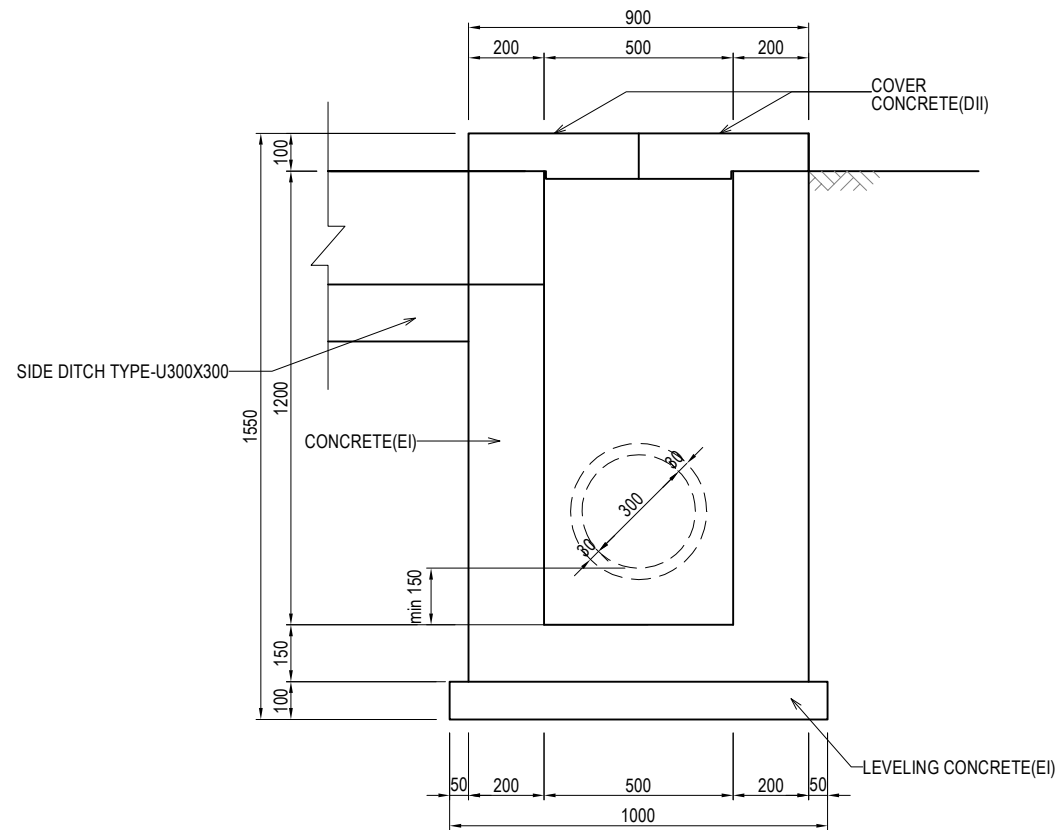
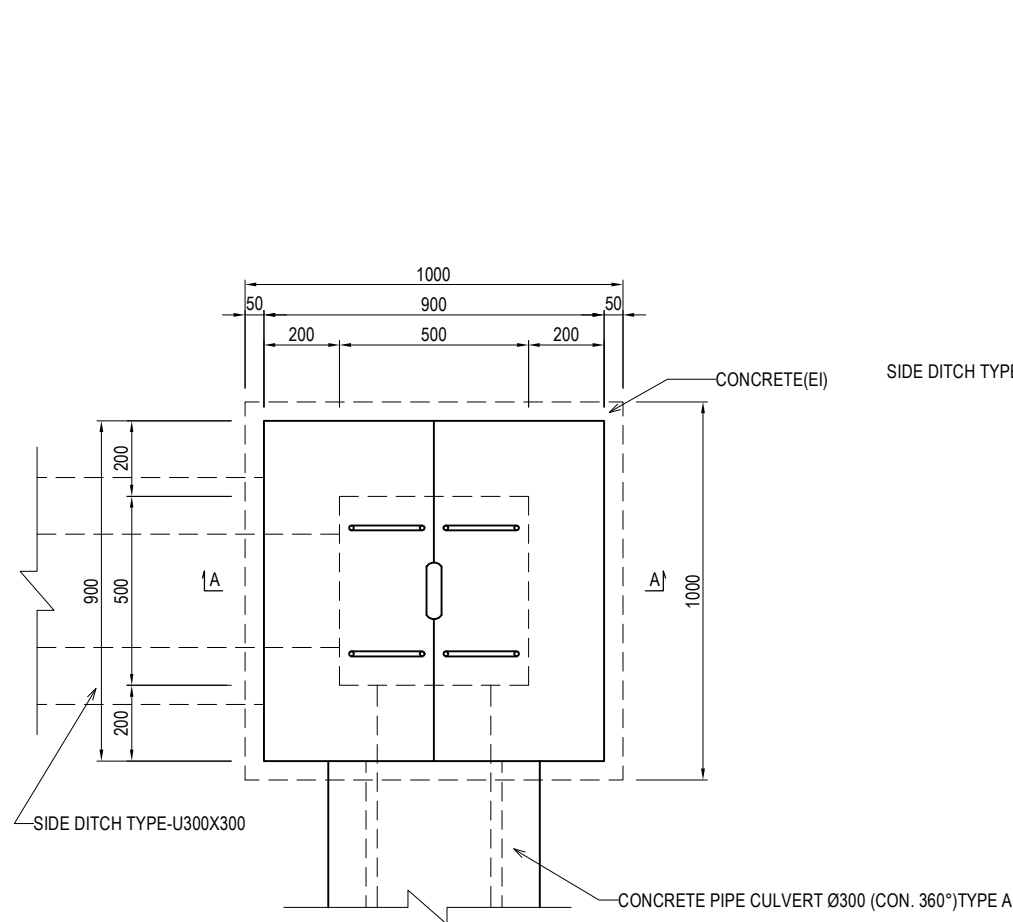
GENERAL VIEW OF CONCRETE PIPE CULVERT Ø300 (CON. 360°)TYPE A S=1:100

No.	STA.	PH	PH1or2	a GROUND ELEVATION (EL.m)	b SURFACE ELEVATION (EL.m)	c BOTTOM ELEVATION (EL.m)	d PIPE ELEVATION B.P.SIDE (EL.m)	e PIPE ELEVATION E.P.SIDE (EL.m)	f LENGTH OF PIPE (m)	g SLOPE RATE OF PIPE (%)
PF.4	2+876	4.726	4.676	4.926	5.026	3.726	3.929	3.523	20.28	2.00%
PF.5	2+929	4.441	4.391	4.641	4.741	3.441	3.644	3.249	19.75	2.00%
PF.6	2+958	4.285	4.235	4.485	4.585	3.285	3.488	3.099	19.45	2.00%
PF.7	2+988	4.156	4.106	4.356	4.456	3.156	3.359	2.959	19.97	2.00%
PF.8	3+019	4.242	4.192	4.442	4.542	3.242	3.445	3.058	19.32	2.00%
PF.9	3+049	4.404	4.354	4.604	4.704	3.404	3.607	3.217	19.46	2.00%
PF.10	3+079	4.565	4.515	4.765	4.865	3.565	3.768	3.370	19.89	2.00%
PF.11										
PF.12	3+119	4.780	4.730	4.980	5.080	3.780	3.983	3.578	20.24	2.00%
PF.13	3+200	4.743	4.713	4.943	5.043	3.743	3.946	3.563	19.12	2.00%
PF.14										
PF.15	3+233	4.531	4.501	4.731	4.831	3.531	3.734	3.361	18.73	2.00%
AF.2	3+264	4.331	4.301	4.531	4.631	3.331	3.534	3.281	12.61	2.00%

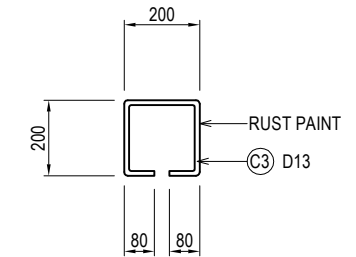


PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE GENERAL VIEW OF CONCRETE PIPE CULVERT Ø300 (CON. 360°) TYPE A S=1:100	PACKAGE	
				PREPARED BY	K. TACHIBANA			29 Sep.2017	0
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P0-RD-3130

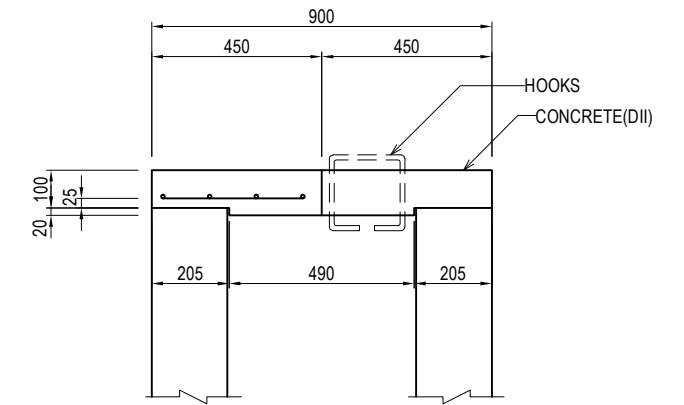
DETAIL OF CATCH PIT 500x500x1200 S=1:20



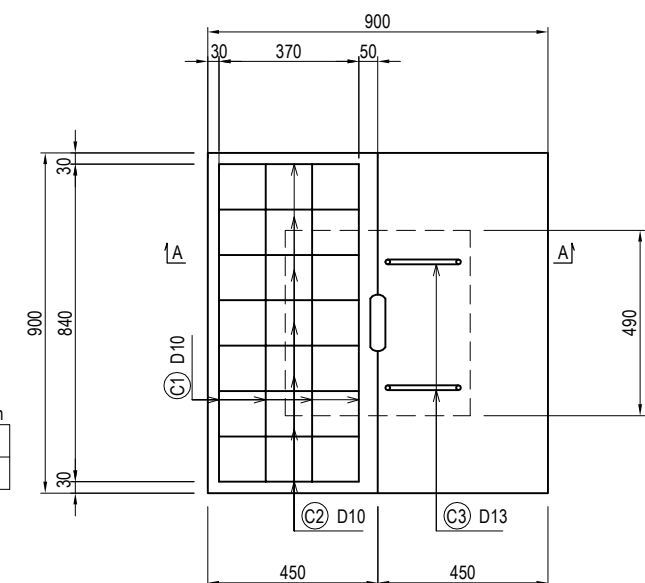
DETAIL OF HOOKS



DETAIL OF COVER SECTION A - A



PLAN



QUANTITY Per 10 each

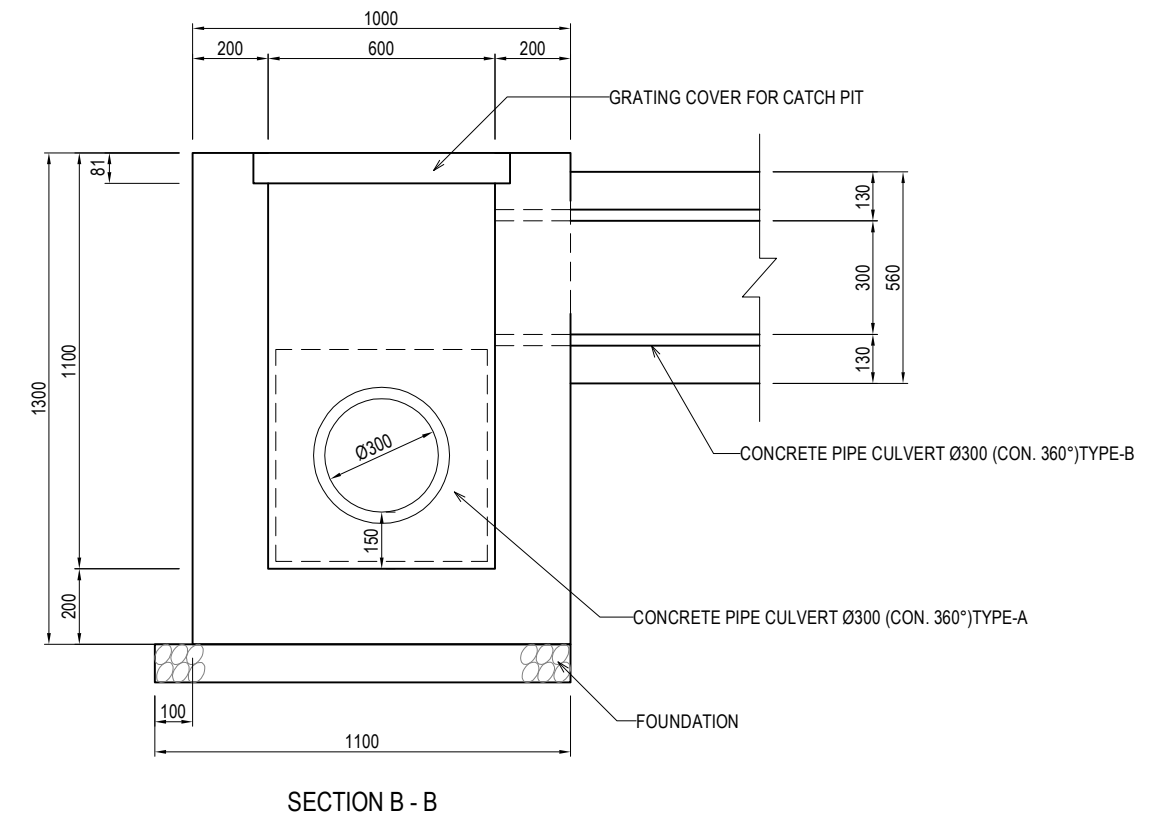
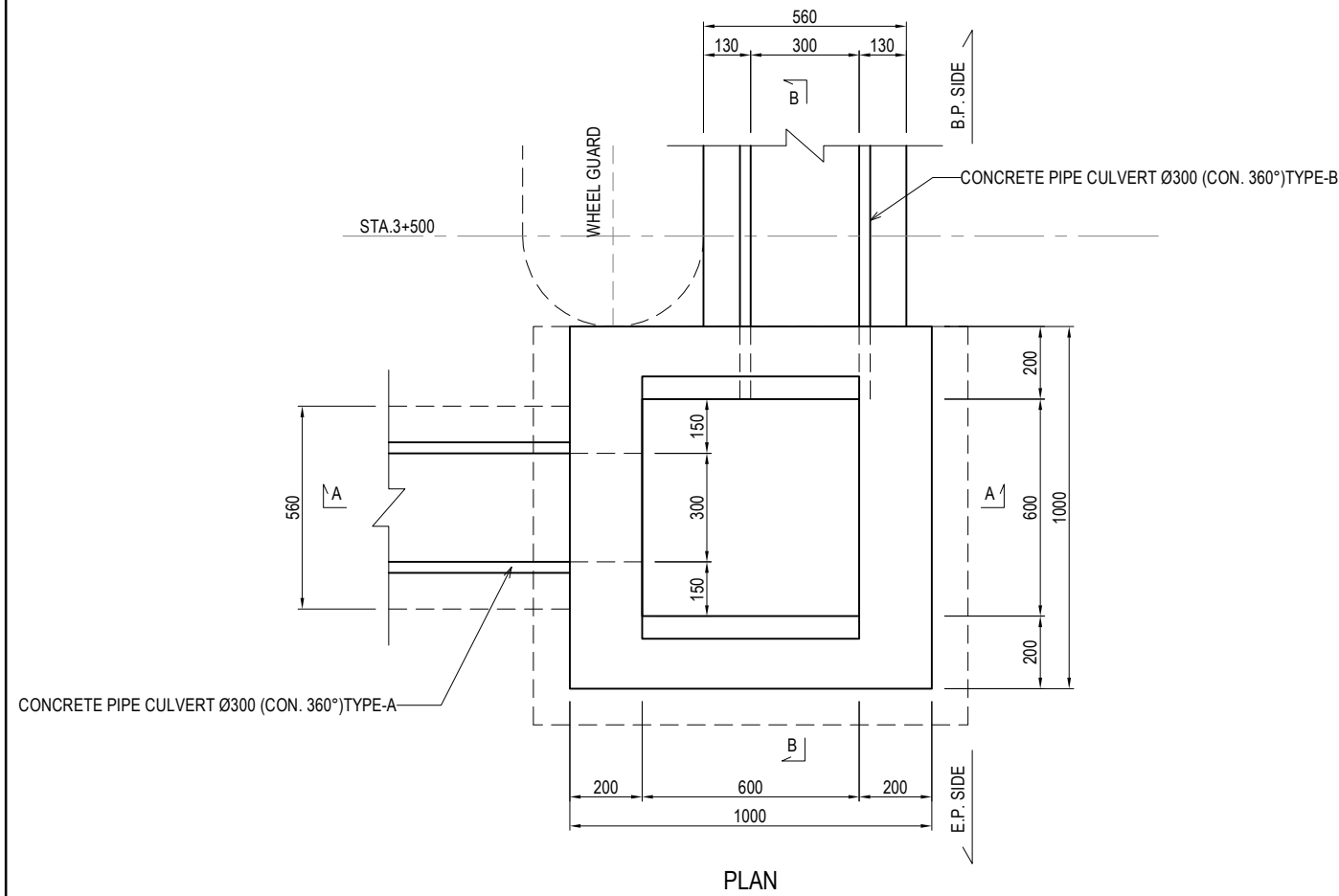
Title	Specification	Quantity
Body		
Concrete	EI	7.94 m3
Form		75.60 m2
Leveling Concrete	t=100	1.00 m2
Cover		
Concrete	DII	0.81 m3
Reinforcing bar	D10	88.88 kg
	D13	15.12 kg
Form		8.10 m2

BAR LIST Per 10 each		
C1	C2	C3
4-D10-740	8-D10-320	2-φ13-760

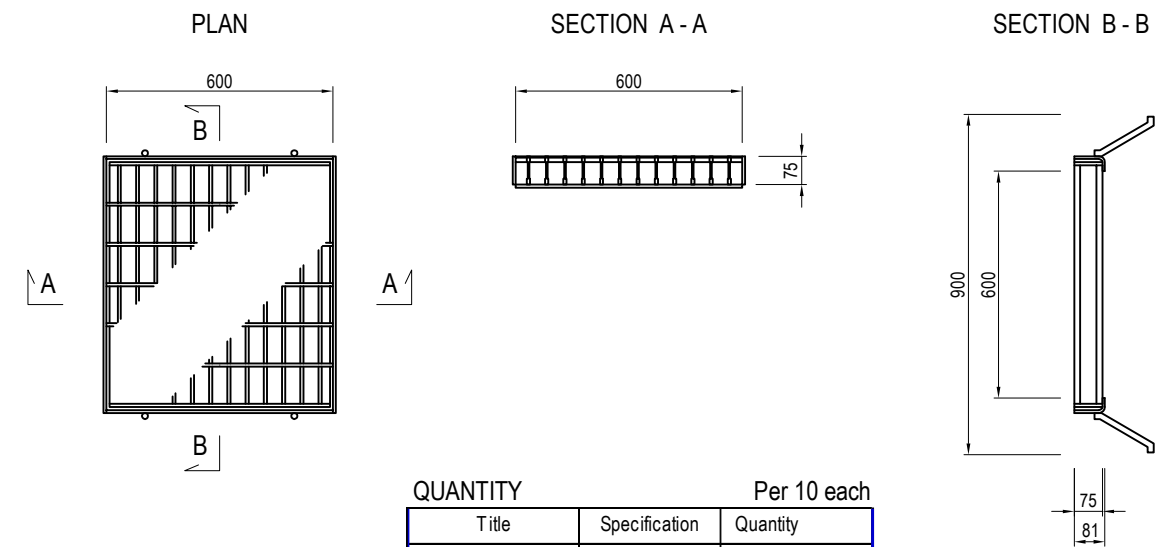
- Note**
1. Specification of Plain Concrete should be CLASS EI
 2. Specification of Reinforced Concrete should be CLASS DII
 3. Specification of Steel reinforcement bar should be SD345

DETAIL OF CATCH PIT (C-DITCH) TYPE B S=1:20

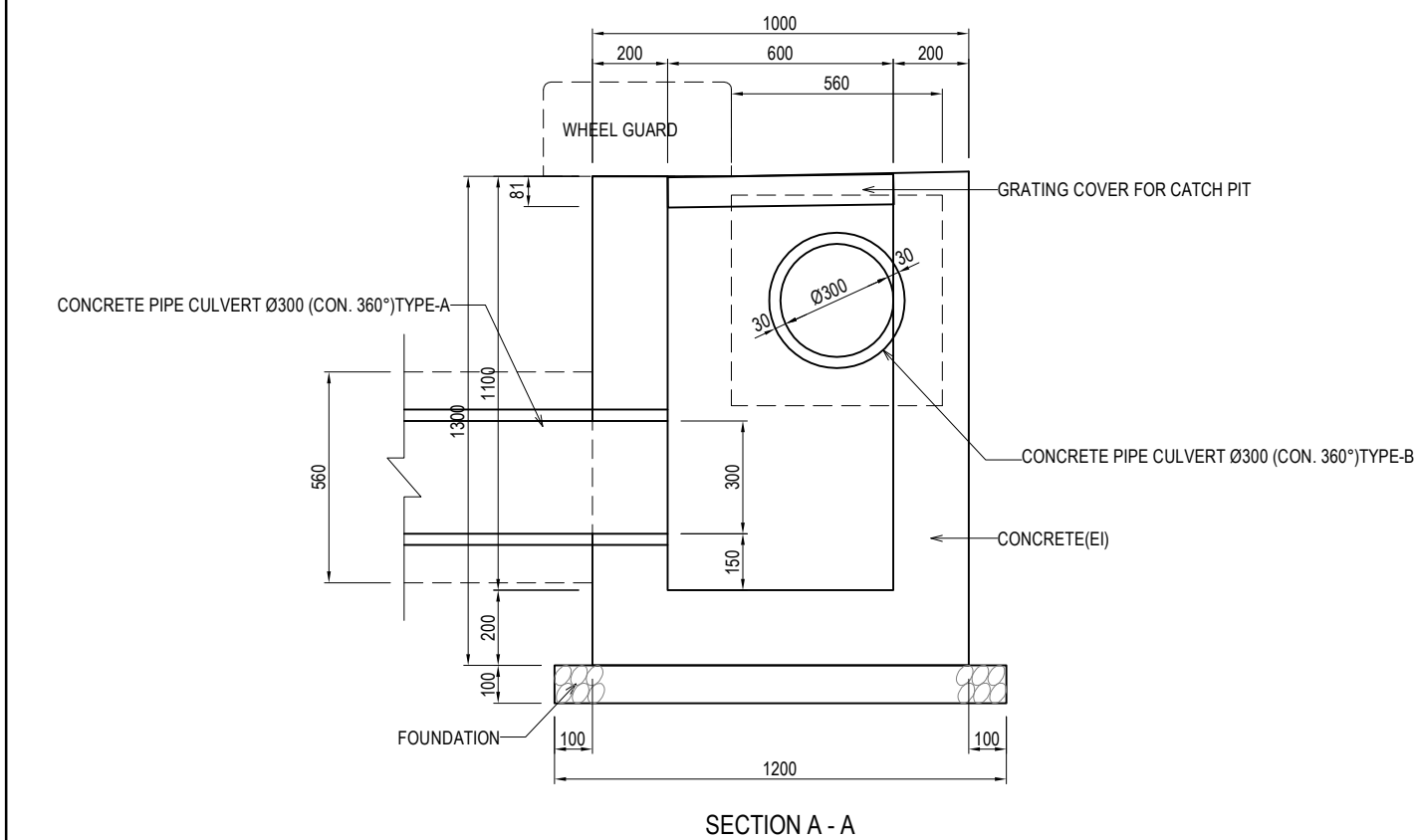
Note
1. Specification of Plain Concrete should be CLASS EI



DETAIL OF GRATING COVER FOR CATCH PIT



QUANTITY		Per 10 each	
Title	Specification	Quantity	
Body			
Concrete	EI	8.57	m3
Form		78.40	m2
Foundation	t=100	13.20	m2
Cover			
Grating Cover	600x720	10	each



PROJECT NAME
DETAILED DESIGN ON
BAGO RIVER BRIDGE
CONSTRUCTION PROJECT

FINANCED BY
JICA
JAPAN INTERNATIONAL
COOPERATION AGENCY

COUNTERPART
REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF CONSTRUCTION
DEPARTMENT OF BRIDGE

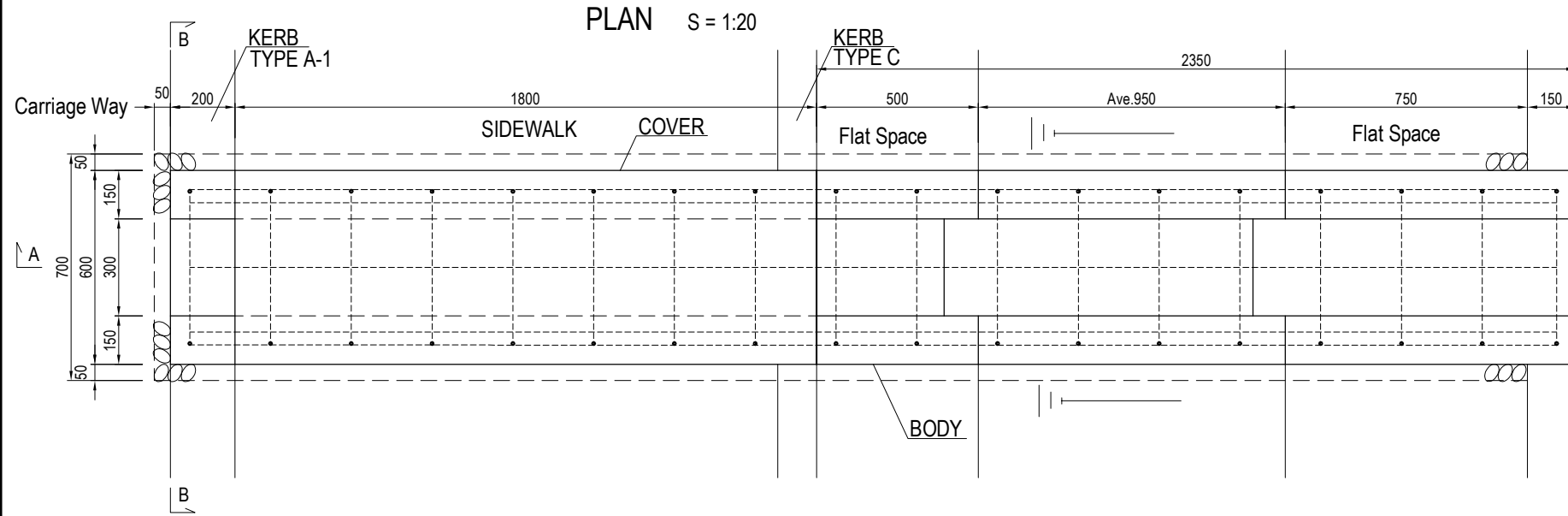
JICA STUDY TEAM
NIPPON KOEI CO., LTD.
ORIENTAL CONSULTANTS GLOBAL CO., LTD.
METROPOLITAN EXPRESSWAY COMPANY LIMITED
CHODAI CO. LTD.
NIPPON ENGINEERING CONSULTANTS CO., LTD.

	NAME	SIGNATURE	DATE
PREPARED BY	K. TACHIBANA		29 Sep.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE
DETAIL OF CATCH PIT (C-DITCH) TYPE B
S=1:20

PACKAGE
0
DWG No.
PO-RD-3150

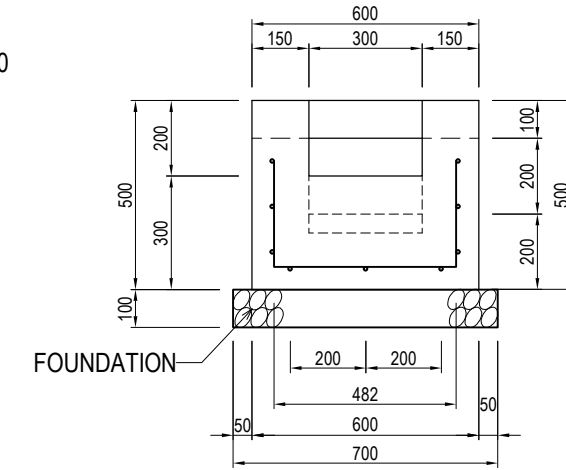
DETAIL OF U-DITCH TYPE A



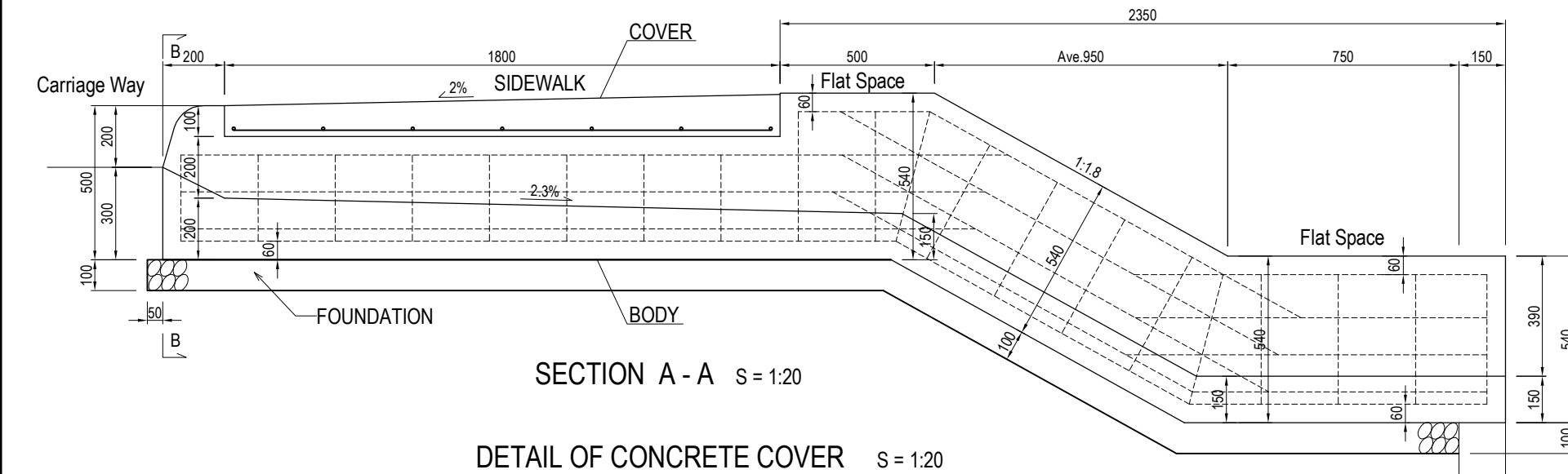
SIDE DITCH TYPE U-1500x1500

A

- Note
1. Specification of Reinforced Concrete should be CLASS DII
 2. Specification of Steel reinforcement bar should be SD345



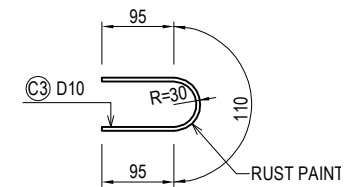
SECTION B - B S = 1:20



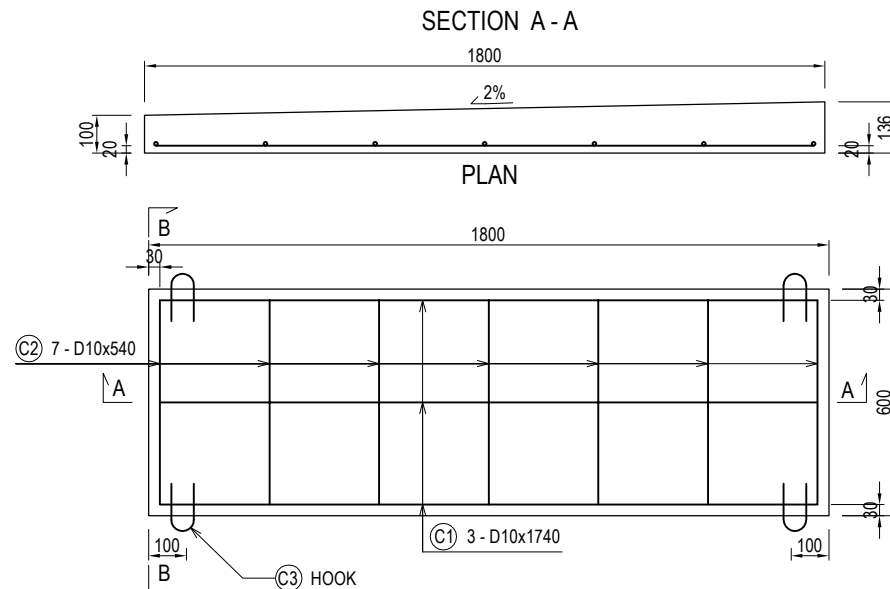
SECTION A - A S = 1:20

SIDE DITCH TYPE U-1500x1500

DETAIL OF HOOKS S = 1:10



DETAIL OF CONCRETE COVER S = 1:20



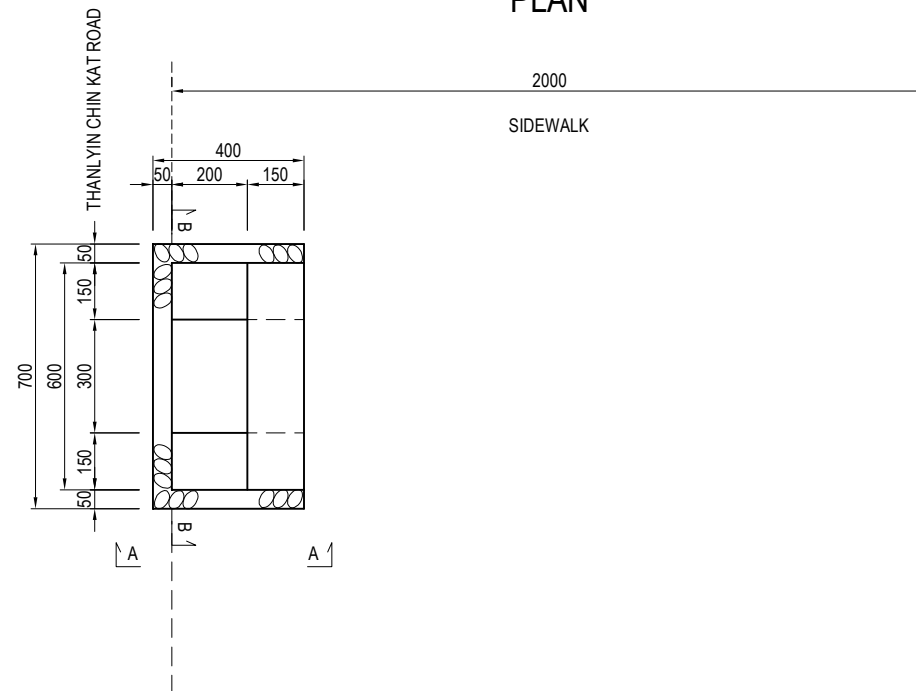
QUANTITY Per 10 each

Title	Specification	Quantity
Body		
Concrete	DII	8.15 m ³
Reinforcing bar	D10	346.15 kg
Form		64.98 m ²
Foundation	t=100	30.71 m ²
Cover		
Concrete	DII	1.27 m ³
Reinforcing bar	D10	57.12 kg
Form		5.68 m ²

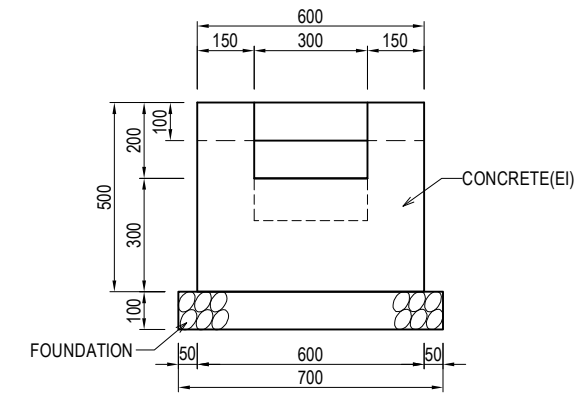
DETAIL OF U-DITCH TYPE B S=1:20

Note
1. Specification of Plain Concrete should be CLASS E1

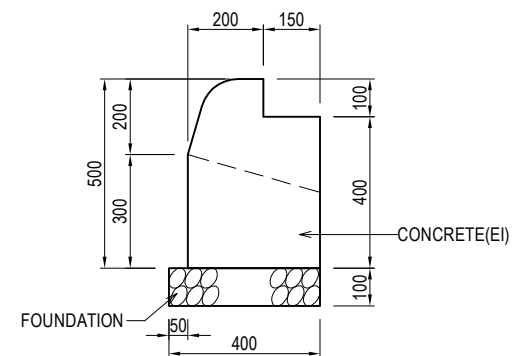
PLAN



SECTION B - B



SECTION A - A



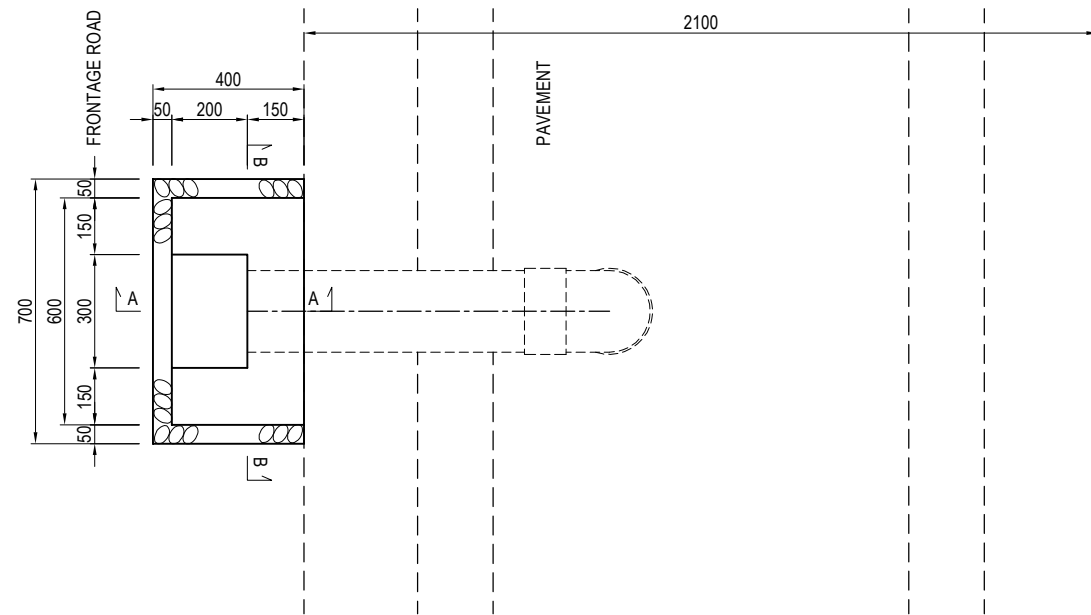
QUANTITY Per 10 each

Title	Specification	Quantity
Concrete	E1	0.74 m ³
Form		4.35 m ²
Foundation	≒100	2.80 m ²

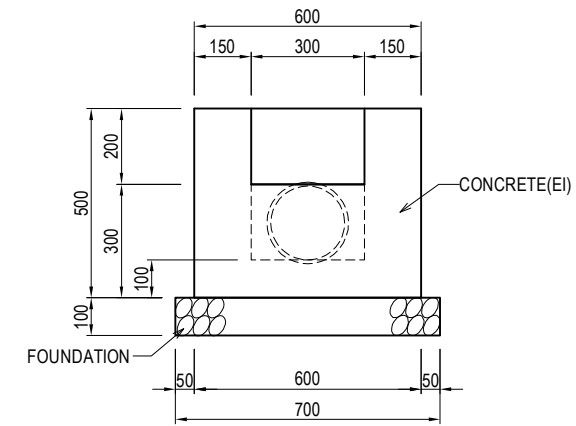
DETAIL OF U-DITCH TYPE C S=1:20

Note
1. Specification of Plain Concrete should be CLASS EI

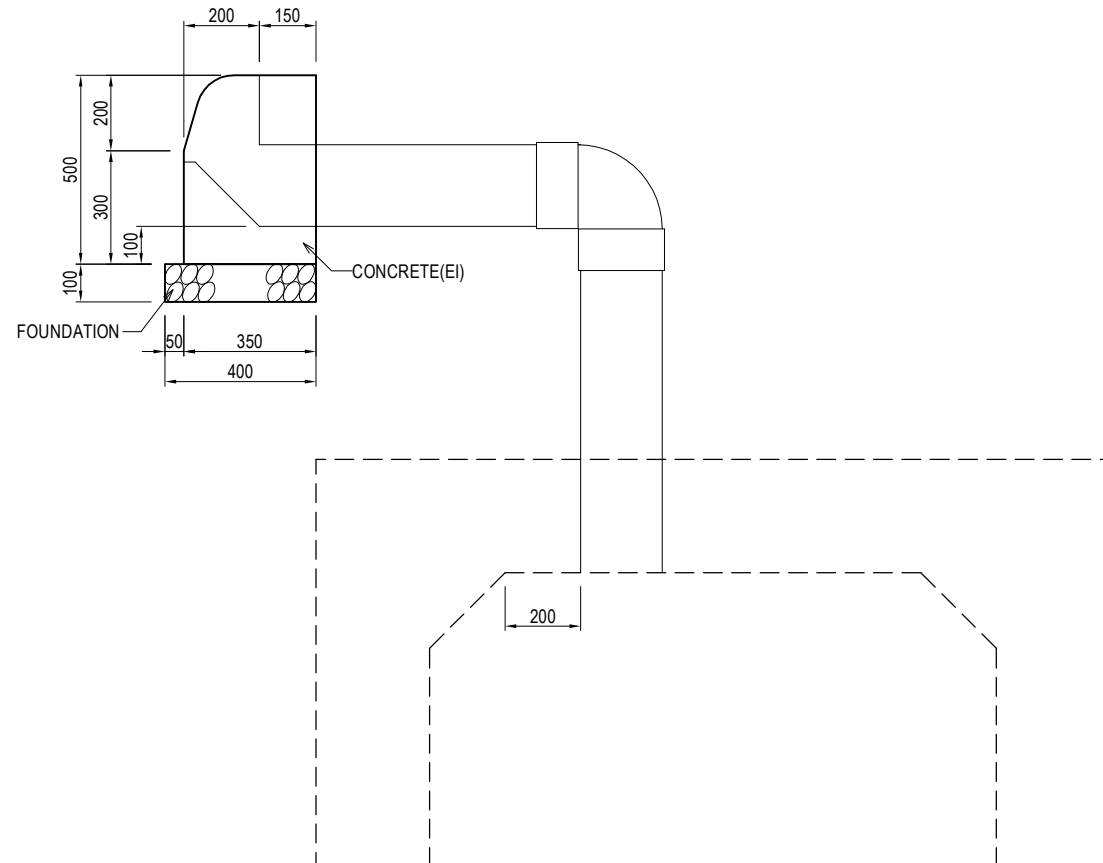
PLAN



SECTION B - B



SECTION A - A



QUANTITY Per 10 each

Title	Specification	Quantity	
Concrete	EI	0.82	m ³
Form		11.30	m ²
Foundation	t=100	2.80	m ²
Pipe	VPφ200	20.00	m
Pipe Elbow	90°	10	each

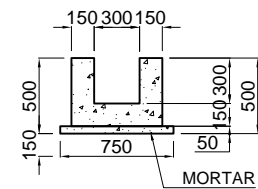
DETAIL OF SIDE DITCH (1)

S=1:50

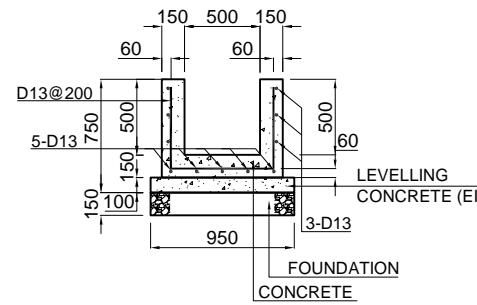
NOTES:

1. Concrete Class DII
(240 kg/cm²)
2. Steel Reinforcement
SD345
3. Pit of Steel Reinforcement
is 200mm

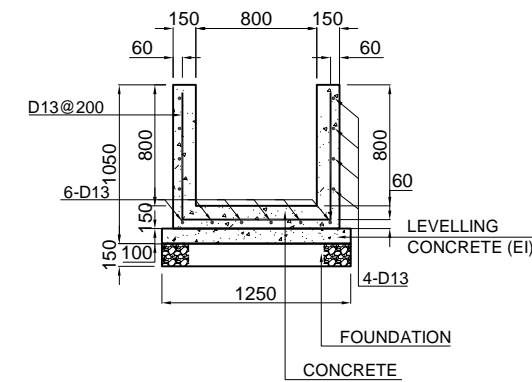
SIDE DITCH TYPE U-300x300



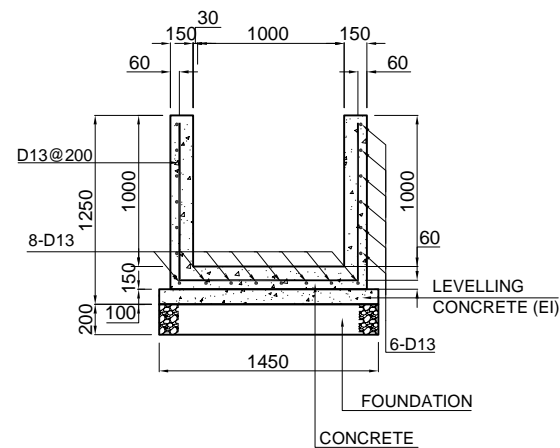
SIDE DITCH TYPE U-500x500



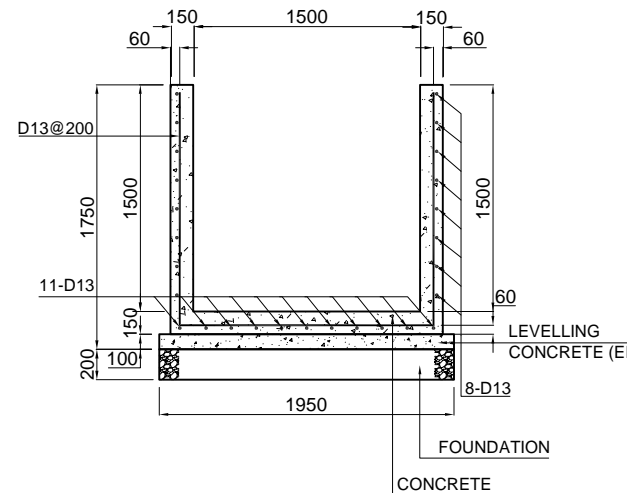
SIDE DITCH TYPE U-800x800



SIDE DITCH TYPE U-1000x1000

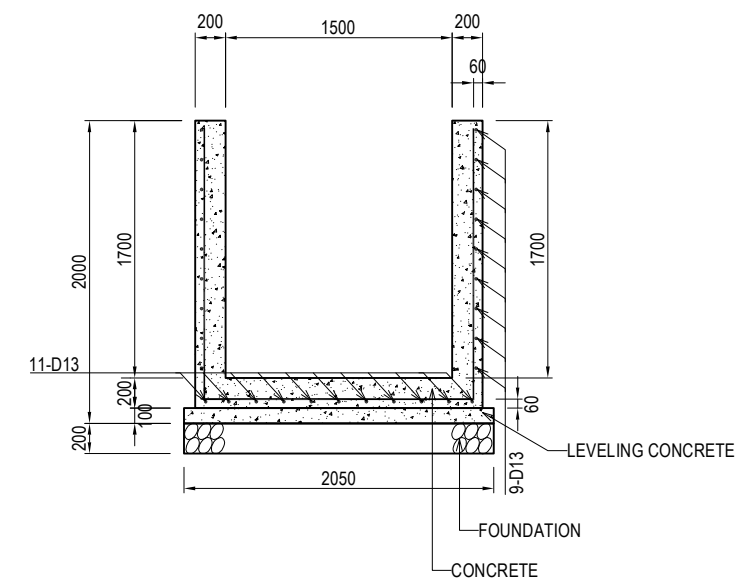


SIDE DITCH TYPE U-1500x1500



SIDE DITCH TYPE U-1500x1700

S=1:50



PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JICA JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE DETAIL OF SIDE DITCH (1) S=1:50	PACKAGE 0 DWG No. P0-RD-3190
				PREPARED BY	K. TACHIBANA	29 Sep.2017		
				CHECKED BY	T. HAYAKAWA	3 Oct.2017		
				APPROVED BY	Y. SANO	6 Oct.2017		

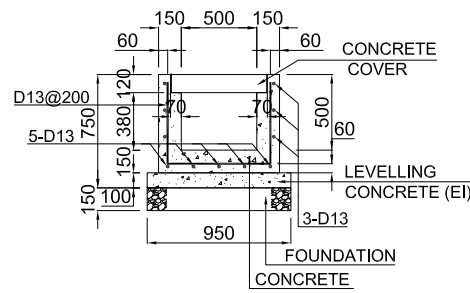
DETAIL OF SIDE DITCH (2)

S=1:50

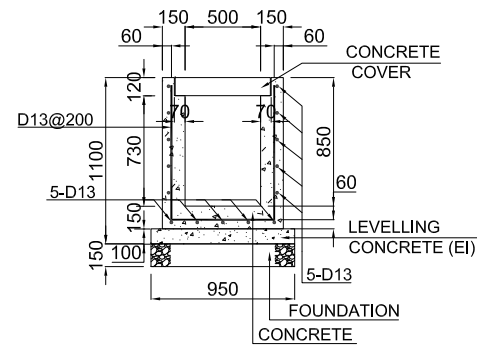
NOTES:

1. Concrete Class DII (240 kg/cm²)
2. Steel Reinforcement SD345
3. Pit of Steel Reinforcement is 200mm

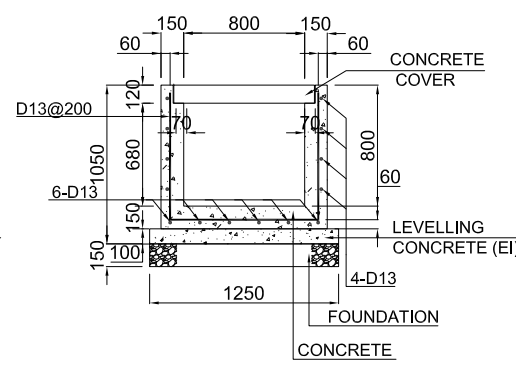
SIDE DITCH TYPE U-500×500 WITH COVER



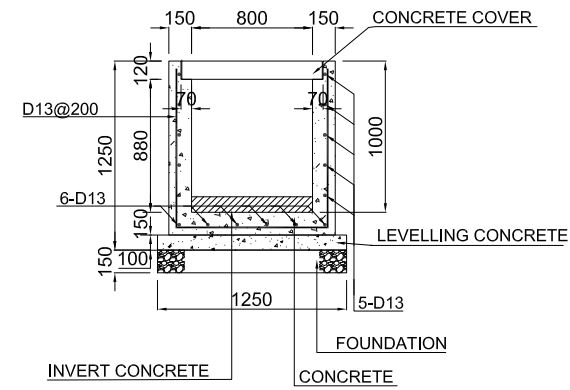
SIDE DITCH TYPE U-500×850 WITH COVER



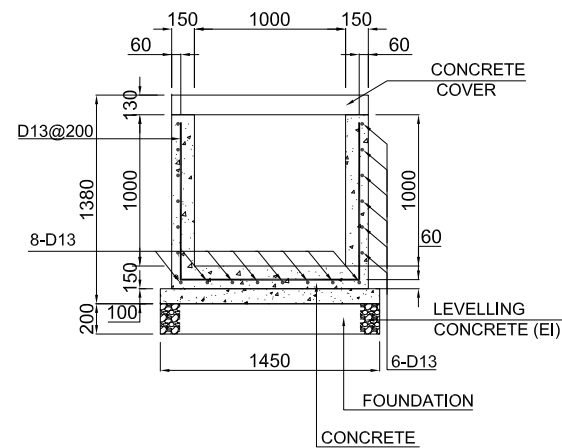
SIDE DITCH TYPE U-800×800 WITH COVER



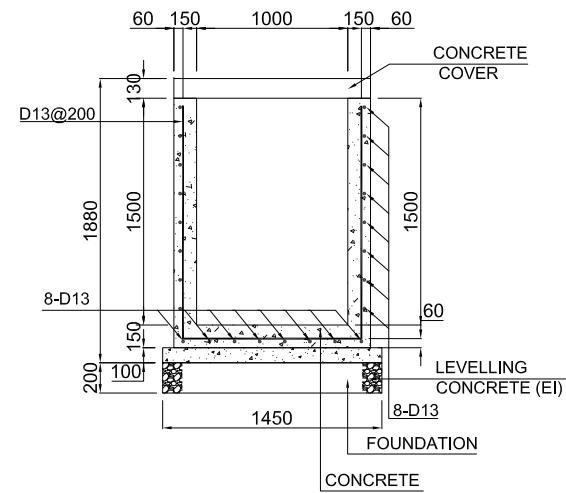
SIDE DITCH TYPE U-800×1000 WITH COVER



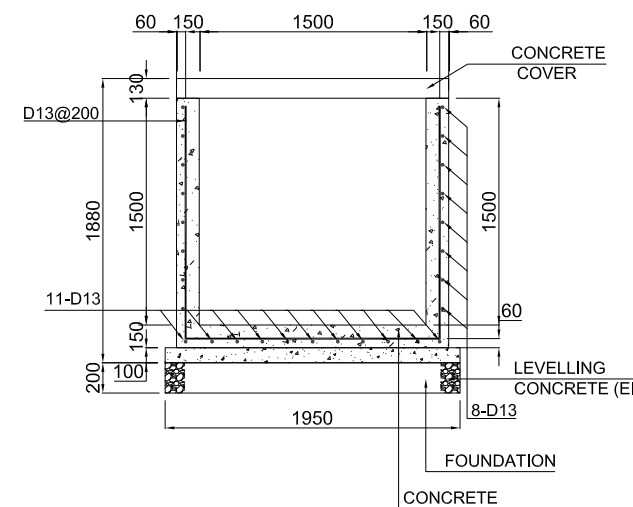
SIDE DITCH TYPE U-1000×1000 WITH COVER



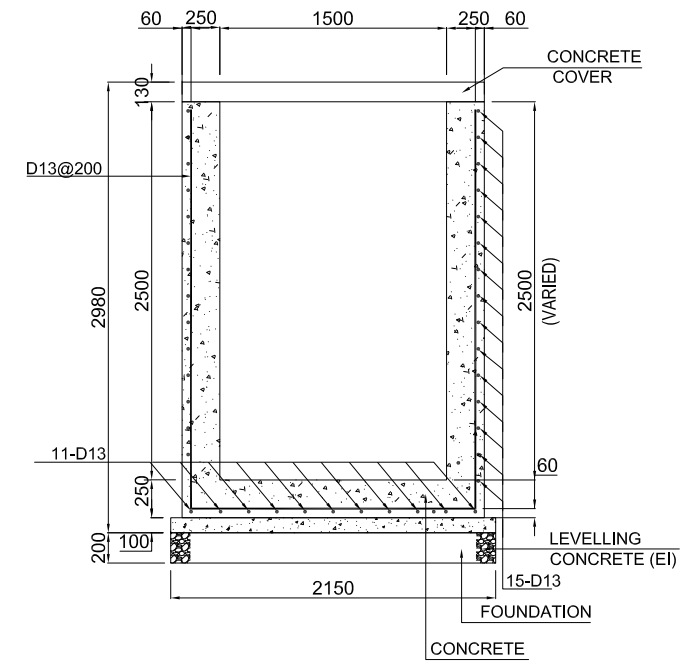
SIDE DITCH TYPE U-1000×1500 WITH COVER



SIDE DITCH TYPE U-1500×1500 WITH COVER



SIDE DITCH TYPE U-1500×2500 WITH COVER

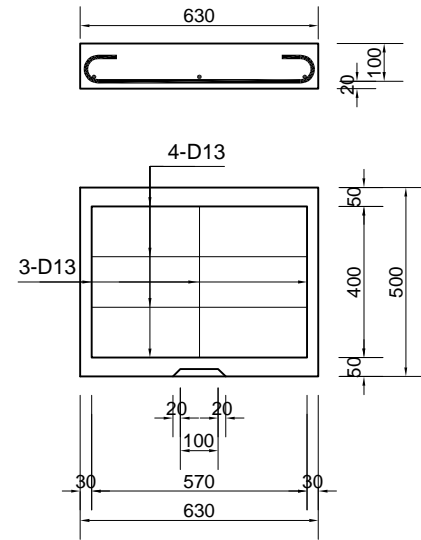


PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY jica JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE DETAIL OF SIDE DITCH (2) S=1:50	PACKAGE 0 DWG No. PO-RD-3200
				PREPARED BY	K. TACHIBANA	29 Sep. 2017		
				CHECKED BY	T. HAYAKAWA	3 Oct. 2017		
				APPROVED BY	Y. SANO	6 Oct. 2017		

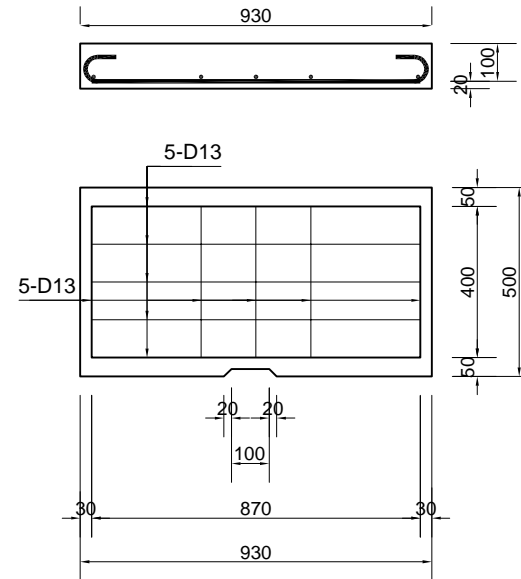
DETAIL OF SIDE DITCH (3)

S=1:20

CONCRETE COVER
SIDE DITCH TYPE U-500×500 WITH COVER



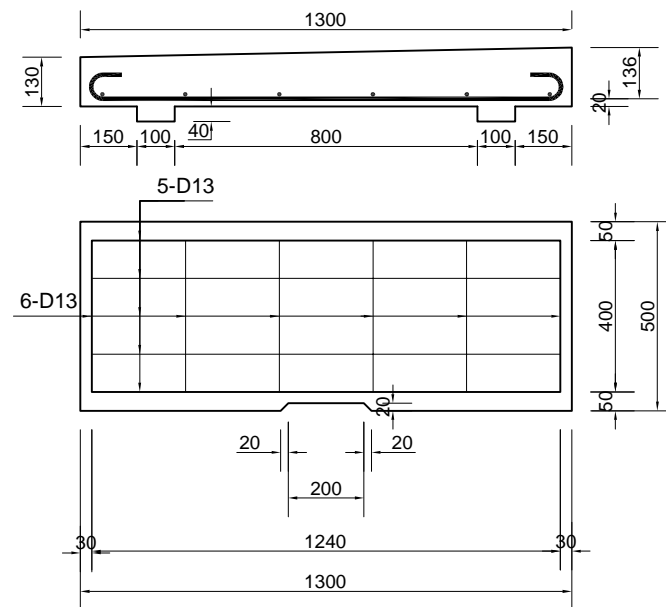
CONCRETE COVER
SIDE DITCH TYPE U-800×800 WITH COVER
SIDE DITCH TYPE U-800×1000 WITH COVER



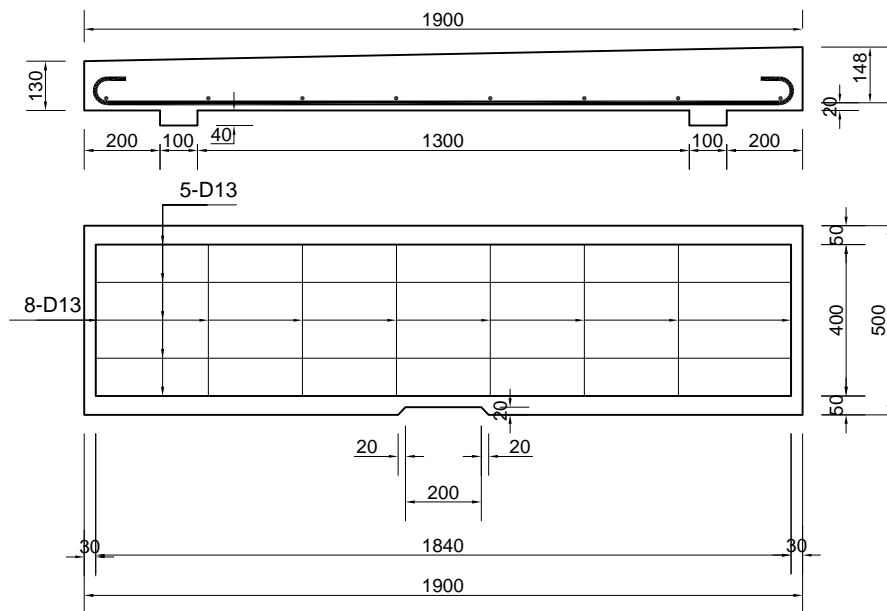
NOTES:

1. Concrete Class DII (240 kg/cm²)
2. Steel Reinforcement SD345
3. Pit of Steel Reinforcement is 200mm

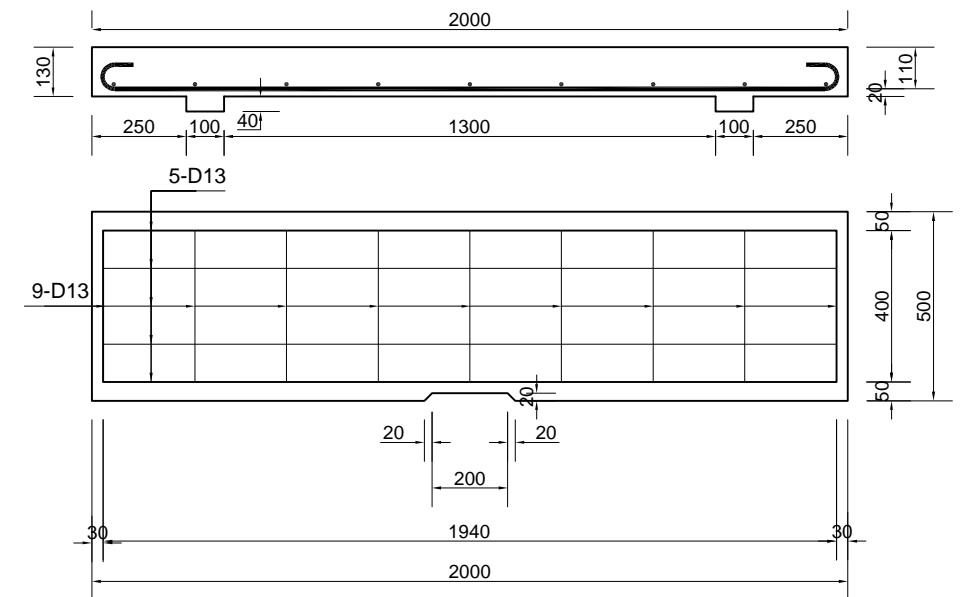
CONCRETE COVER TYPE A
SIDE DITCH TYPE U-1000×1000 WITH COVER
SIDE DITCH TYPE U-1000×1500 WITH COVER



CONCRETE COVER TYPE B
SIDE DITCH TYPE U-1500×1700 WITH COVER



CONCRETE COVER
SIDE DITCH TYPE U-1500×2500 WITH COVER



PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JICA JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE DETAIL OF SIDE DITCH (3) S=1:20	PACKAGE 0 DWG No. P0-RD-3210
				PREPARED BY	K. TACHIBANA	29 Sep. 2017		
				CHECKED BY	T. HAYAKAWA	3 Oct. 2017		
				APPROVED BY	Y. SANO	6 Oct. 2017		