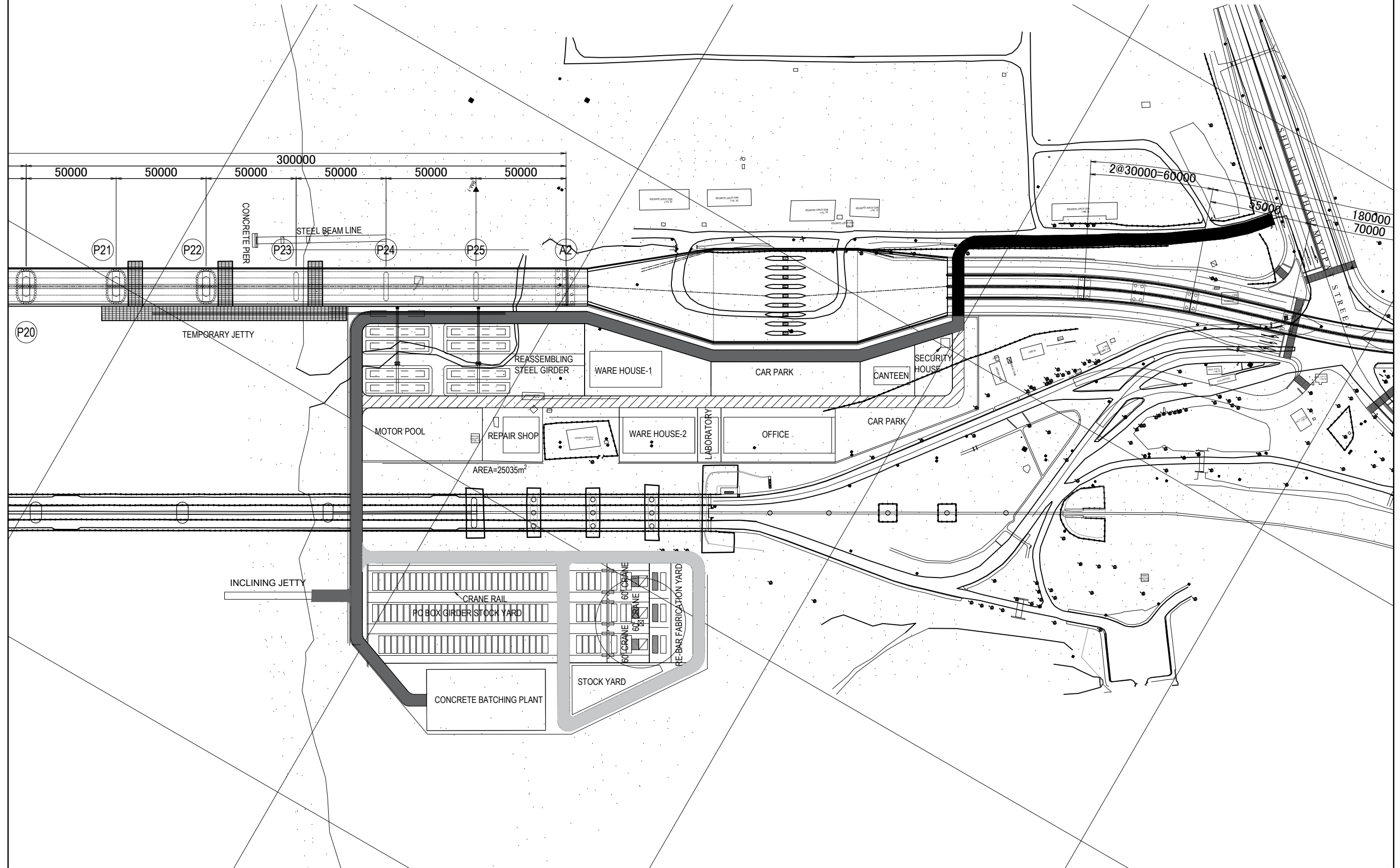


## **G. REFERENCE DRAWING**

(REFERENCE) GENERAL LAYOUT OF CONSTRUCTION YARD

S=1:2000

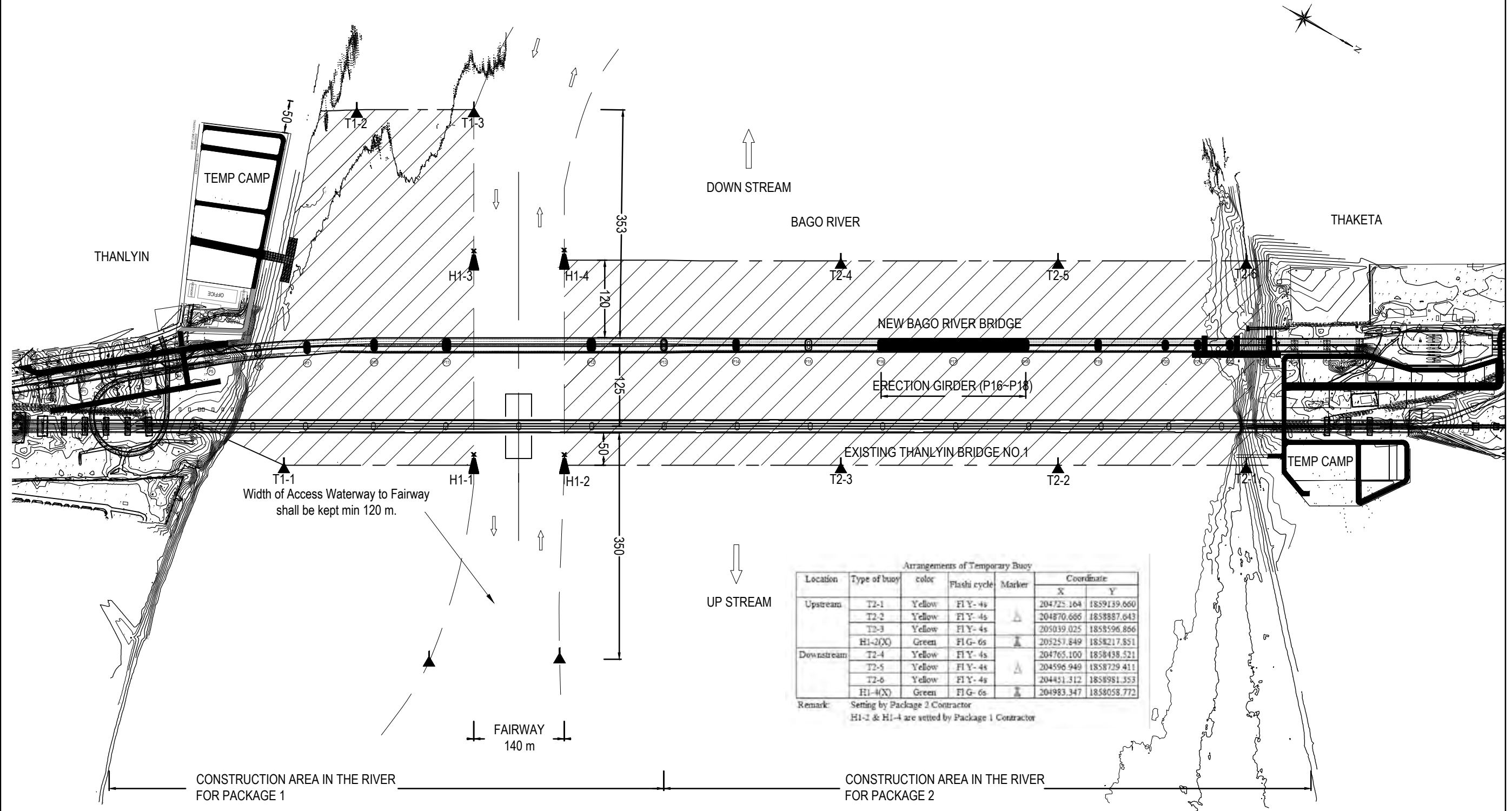


PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN 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	T. ICHIKAWA			15 Jun.2017	2
				CHECKED BY	T. HAYAKAWA			20 Jun.2017	DWG No.
				APPROVED BY	Y. SANO			21 Jun.2017	P2-REF-0001

# (REFERENCE) NAVIGATION CONTROL PLAN

S=1:6000

TEMPORARY FAIRWAY  
CONSTRUCTION STAGE 1: FOUNDATION AND PIER WORKS AND ERECTION GIRDER (P16~P18)



Width of Access Waterway to Fairway shall be kept min 120 m.

FAIRWAY  
140 m

Note : Water depth of Access Waterway and Fairway shall be kept min 5.0 m depth.

Arrangements of Temporary Buoy

Location	Type of buoy	color	Flash cycle	Marker	Coordinate	
					X	Y
Upstream	T2-1	Yellow	Fl Y- 4s	△	204725.164	1859139.660
	T2-2	Yellow	Fl Y- 4s		204870.666	1858887.643
	T2-3	Yellow	Fl Y- 4s		205039.025	1858596.866
	H1-2(X)	Green	Fl G- 6s		205251.849	1858217.851
Downstream	T2-4	Yellow	Fl Y- 4s	△	204765.100	1858438.521
	T2-5	Yellow	Fl Y- 4s		204596.949	1858729.411
	T2-6	Yellow	Fl Y- 4s		204451.312	1858981.353
	H1-4(X)	Green	Fl G- 6s		204983.347	1858058.772

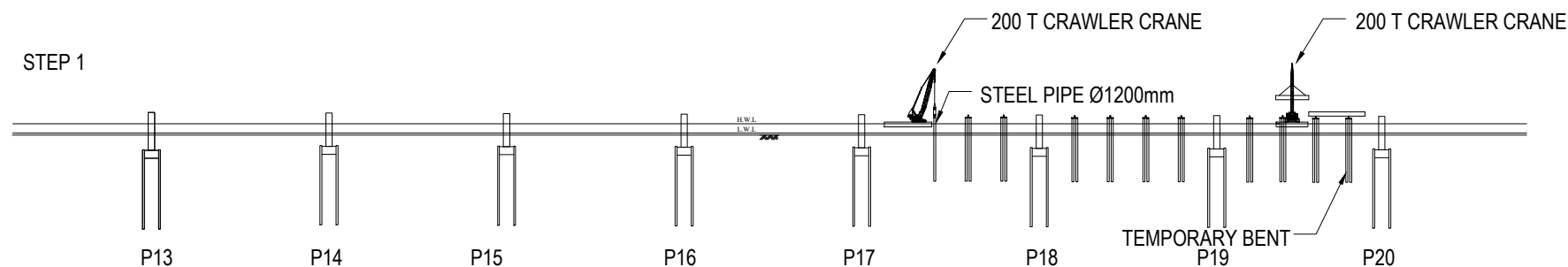
Remark: Setting by Package 2 Contractor  
H1-2 & H1-4 are setted by Package 1 Contractor

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 (REFERENCE) NAVIGATION CONTROL PLAN	PACKAGE	
				PREPARED BY	T. ICHIKAWA	市川 敏夫		15 Jun.2017	2
				CHECKED BY	T. HAYAKAWA	平川 知那		20 Jun.2017	DWG No.
				APPROVED BY	Y. SANO	佐野 祐一		21 Jun.2017	P2-REF-0002

# (REFERENCE) CONSTRUCTION SEQUENCE OF CONTINUOUS STEEL BOX GIRDER

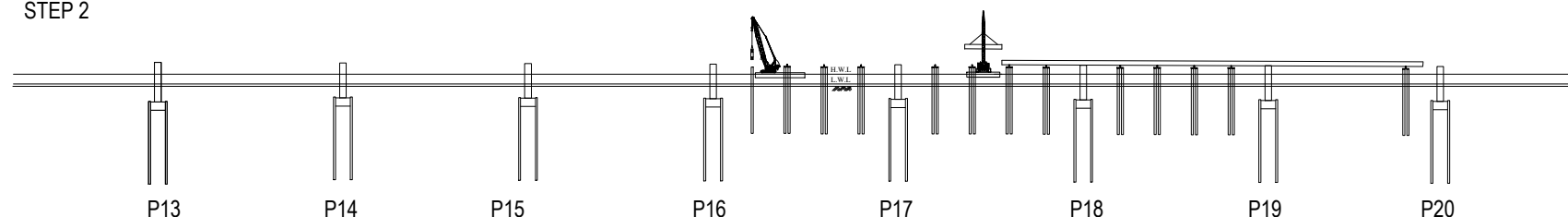
S=1:4000

## STEP 1



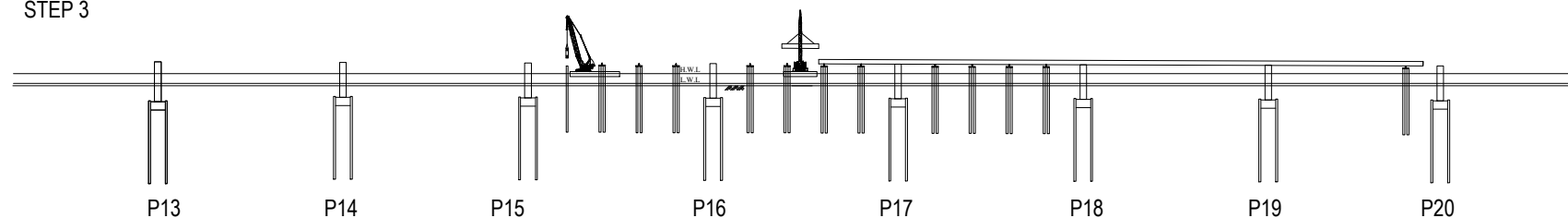
- Driving Steel Pipe  $\varnothing 1.2\text{m}$  by a Vibration Hammer and install temporary bents for erection steel box girders in advance.
- Steel box girder blocks are erected by 200t Crawler Crane mounted on barge on the temporary bents.
- Joint each steel box girder with H.T.B.
- First steel box girder blocks remains not to erect for stressing PC cables of PC box girder.

## STEP 2



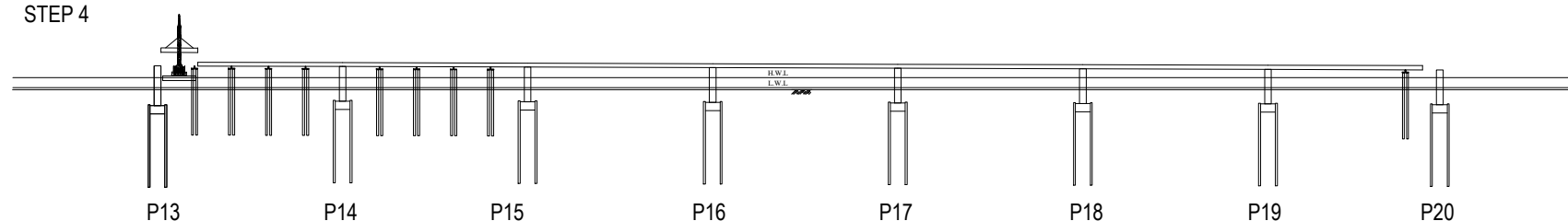
- Temporary bents are installed within 3 spans to minimize disturbance of river traffic.

## STEP 3



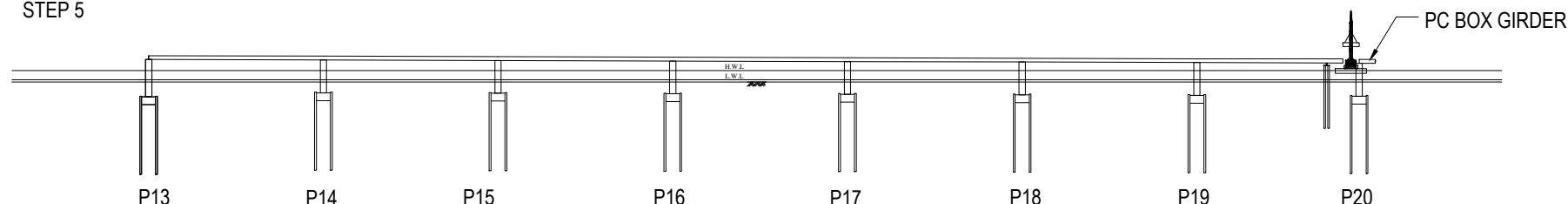
- Procedure of installing temporary bents and erecting steel box girder is frequently repeated.

## STEP 4



- Last steel box girder block is erected and jointed continuously.

## STEP 5



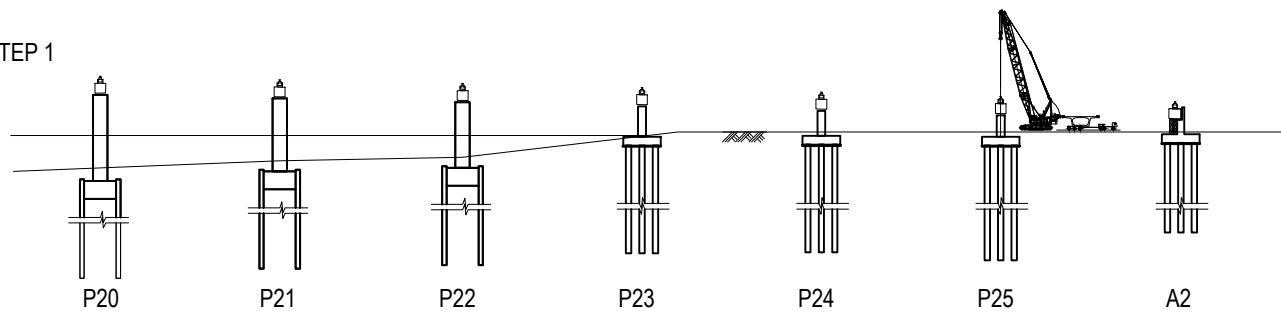
- Finally the reaming the first block erects after PC cables are stressed at the end of PC box girder.
- Completed.

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) CONSTRUCTION SEQUENCE OF CONTINUOUS STEEL BOX GIRDER	PACKAGE 2 DWG No. P2-REF-0003	
				PREPARED BY	T. ICHIKAWA				15 Jun.2017
				CHECKED BY	T. HAYAKAWA				20 Jun.2017
				APPROVED BY	Y. SANO				21 Jun.2017

# (REFERENCE) CONSTRUCTION SEQUENCE OF CONTINUOUS PC BOX GIRDER

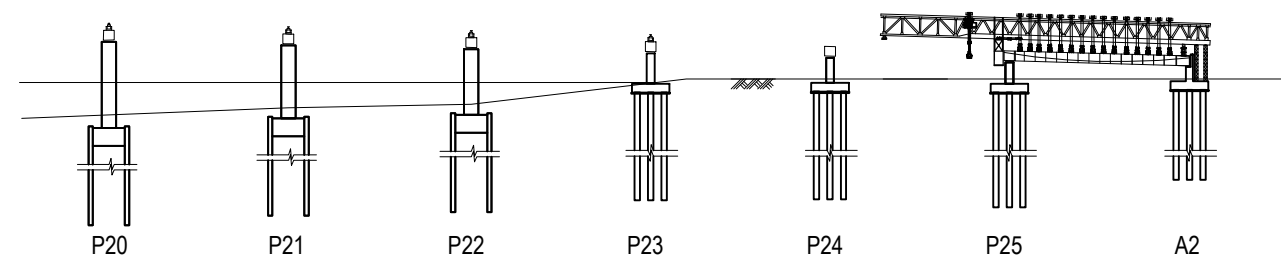
S=1:2000

STEP 1



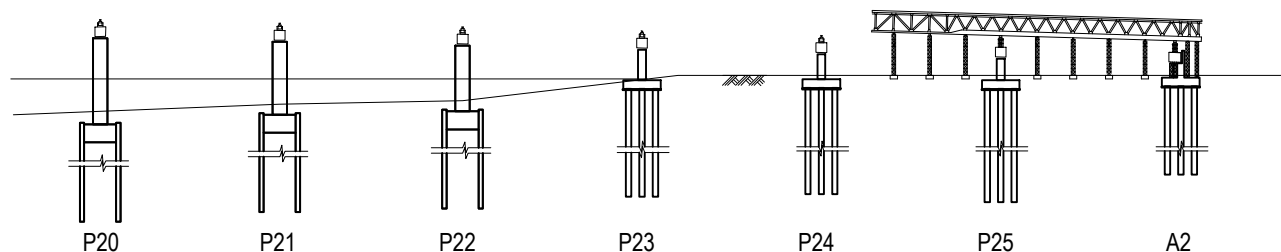
- In advance of segment erection, bearing shoes are set on abutment and piers. Pier head segments are erected by 200t crawler crane and fixed by PC bars.

STEP 4



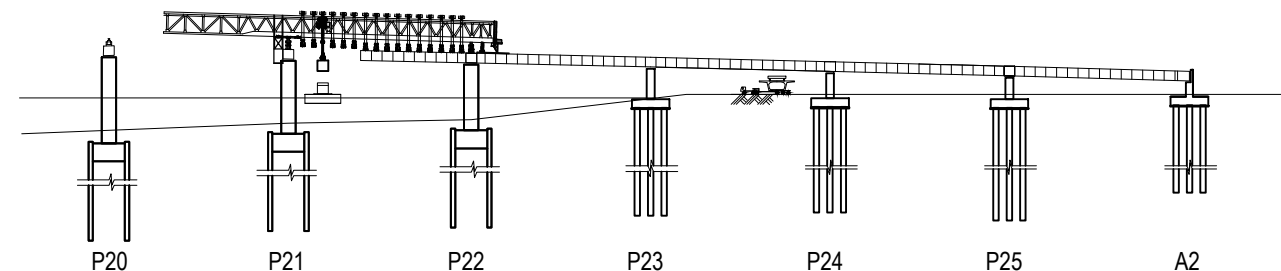
- After all segment are suspended at the designed position, epoxy adhesive applies to the segment which is pulling and connected by PC bars. Mortar is placed in wet joints at both sides. Permanent inner and external tendons for span are installed and tensioned by hydraulic jack.
- After completion of one span erection sequence, the erection girder advances to next span and erects segments in the same procedure up to pier 20.

STEP 2



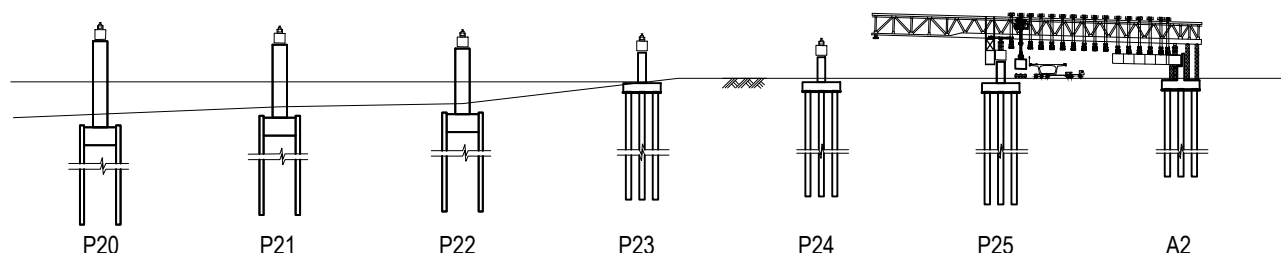
- For assembling of erection girder, temporary bent are installed. The erection girder and erection apparatus are set in designated position and girder support fixed on the pier head segment.

STEP 5



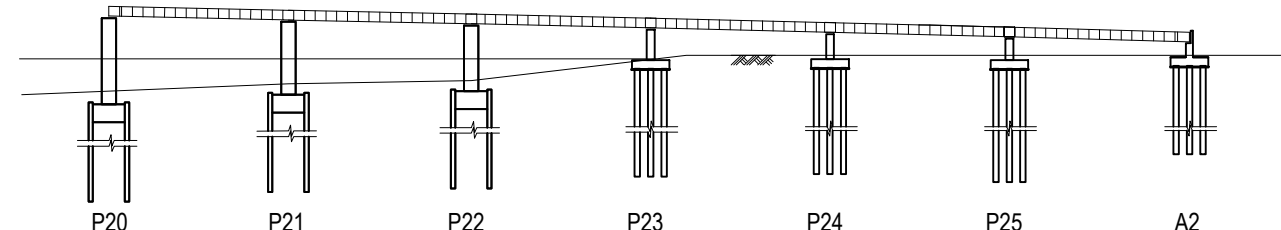
- Span for Pier-23 to Pier-20 pre-cast segments are transported on barge under the erection girder and lifted by electric hoist and moved the setting position. The segment transfers the load to temporary hanging beam and adjusts the slope and gradient by jack.

STEP 3



- Span for abutment -A2 to Pier-23 pre-cast segments are transported by trailer under the erection girder and lifted by electric hoist and moved the setting position. The segment transfers the load to temporary hanging beam and adjusts the slope and gradient by jack.

STEP 6

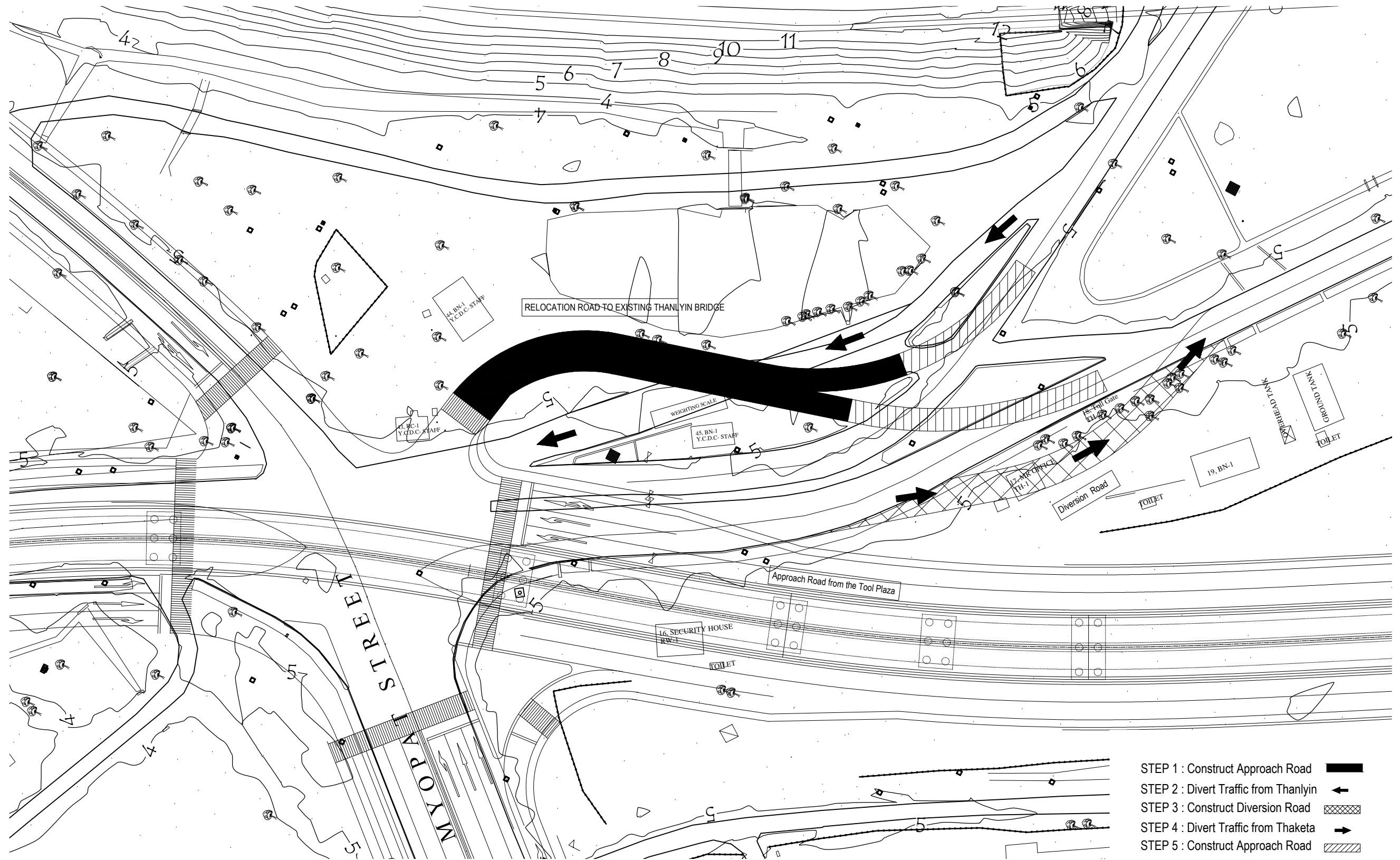


- Demolition of erection girder and then completion.

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) CONSTRUCTION SEQUENCE OF CONTINUOUS PC BOX GIRDER	PACKAGE	
				PREPARED BY	T. ICHIKAWA			15 Jun.2017	2
				CHECKED BY	T. HAYAKAWA			20 Jun.2017	DWG No.
				APPROVED BY	Y. SANO			21 Jun.2017	P2-REF-0004

(REFERENCE) DIVERSION OF EXISTING TRAFFIC DURING CONSTRUCTION OF  
 APPROACH ROAD TO EXISTING THANLYIN BRIDGE NO.1

S=1:750



- STEP 1 : Construct Approach Road
- STEP 2 : Divert Traffic from Thanlyin
- STEP 3 : Construct Diversion Road
- STEP 4 : Divert Traffic from Thaketa
- STEP 5 : Construct Approach Road

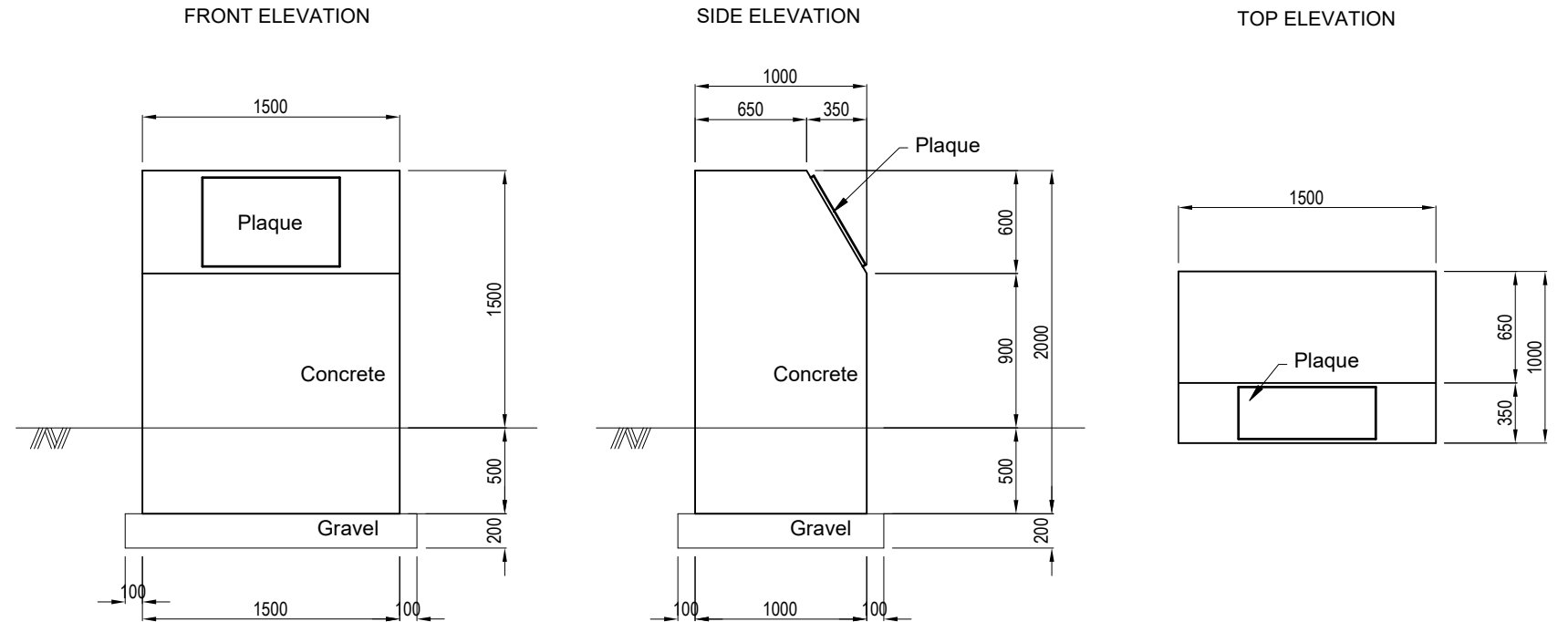
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO. LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE (REFERENCE) DIVERSION OF EXISTING TRAFFIC DURING CONSTRUCTION OF APPROACH ROAD TO EXISTING THANLYIN BRIDGE NO.1	PACKAGE	
				PREPARED BY	T. ICHIKAWA			15 Jun.2017	2
				CHECKED BY	T. HAYAKAWA			20 Jun.2017	DWG No.
				APPROVED BY	Y. SANO			21 Jun.2017	P2-REF-0005

# (REFERENCE) MONUMENT AND BRIDGE RECORD

## MONUMENT



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



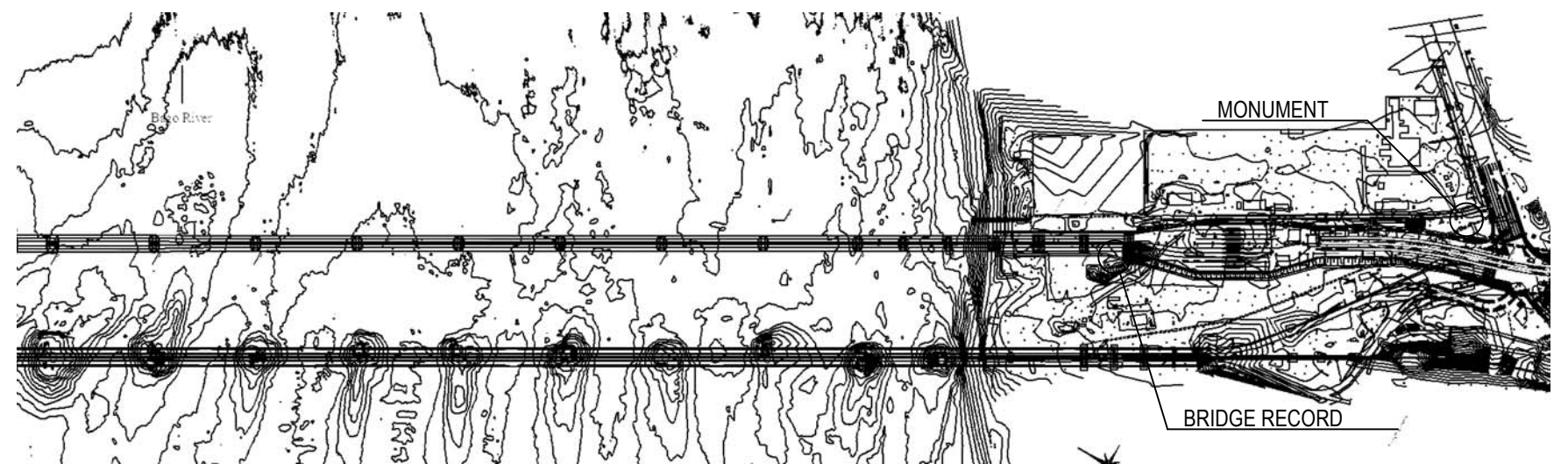
Note) Design and details of monument shall be confirmed to the Engineer during construction period.

## 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		29 Sep. 2017	(REFERENCE) MONUMENT AND BRIDGE RECORD	2
				T. HAYAKAWA		3 Oct. 2017		DWG No.
				Y. SANO		6 Oct. 2017		P2-REF-0006

# (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

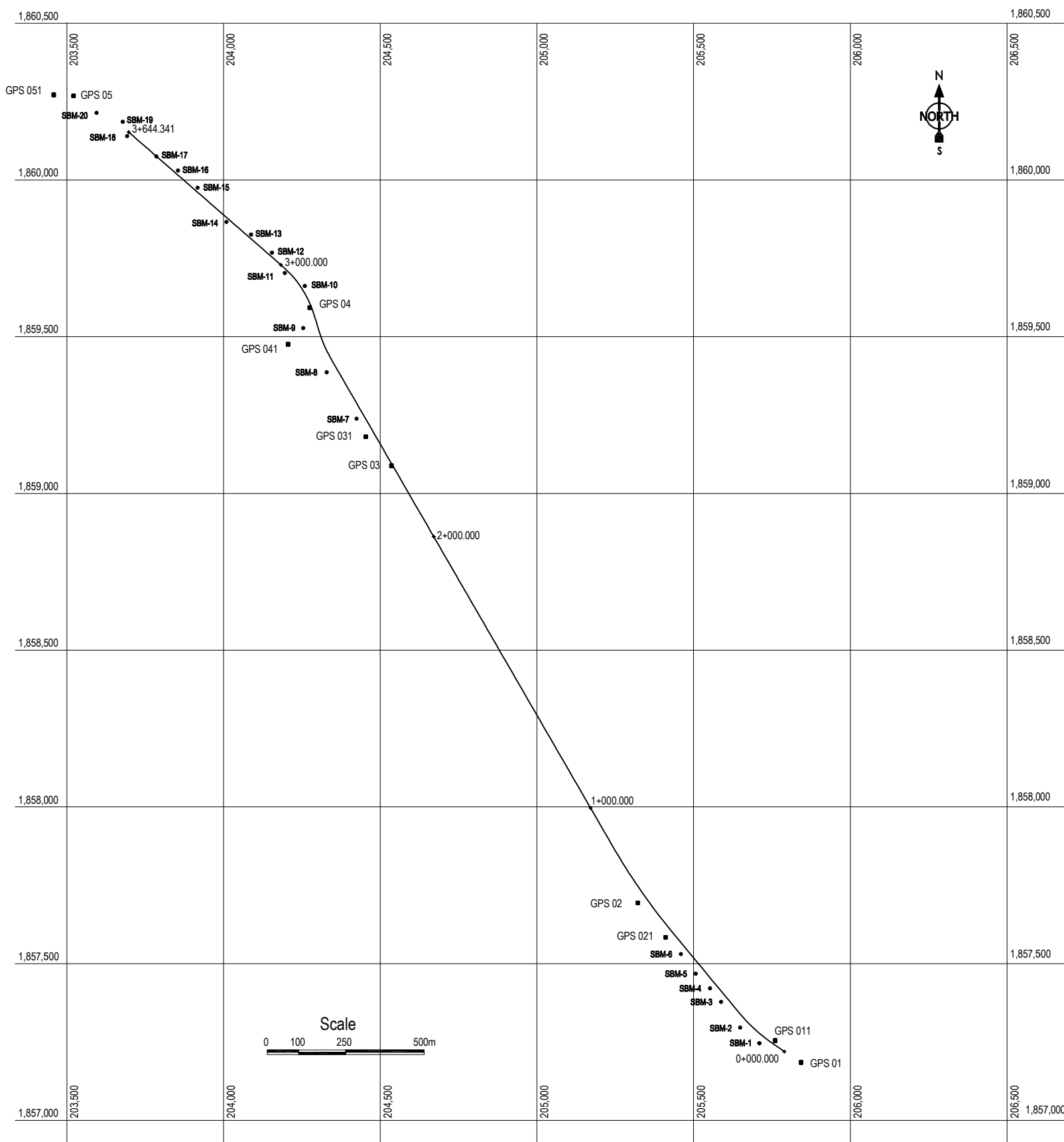
## Secondary Control Point By TS

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

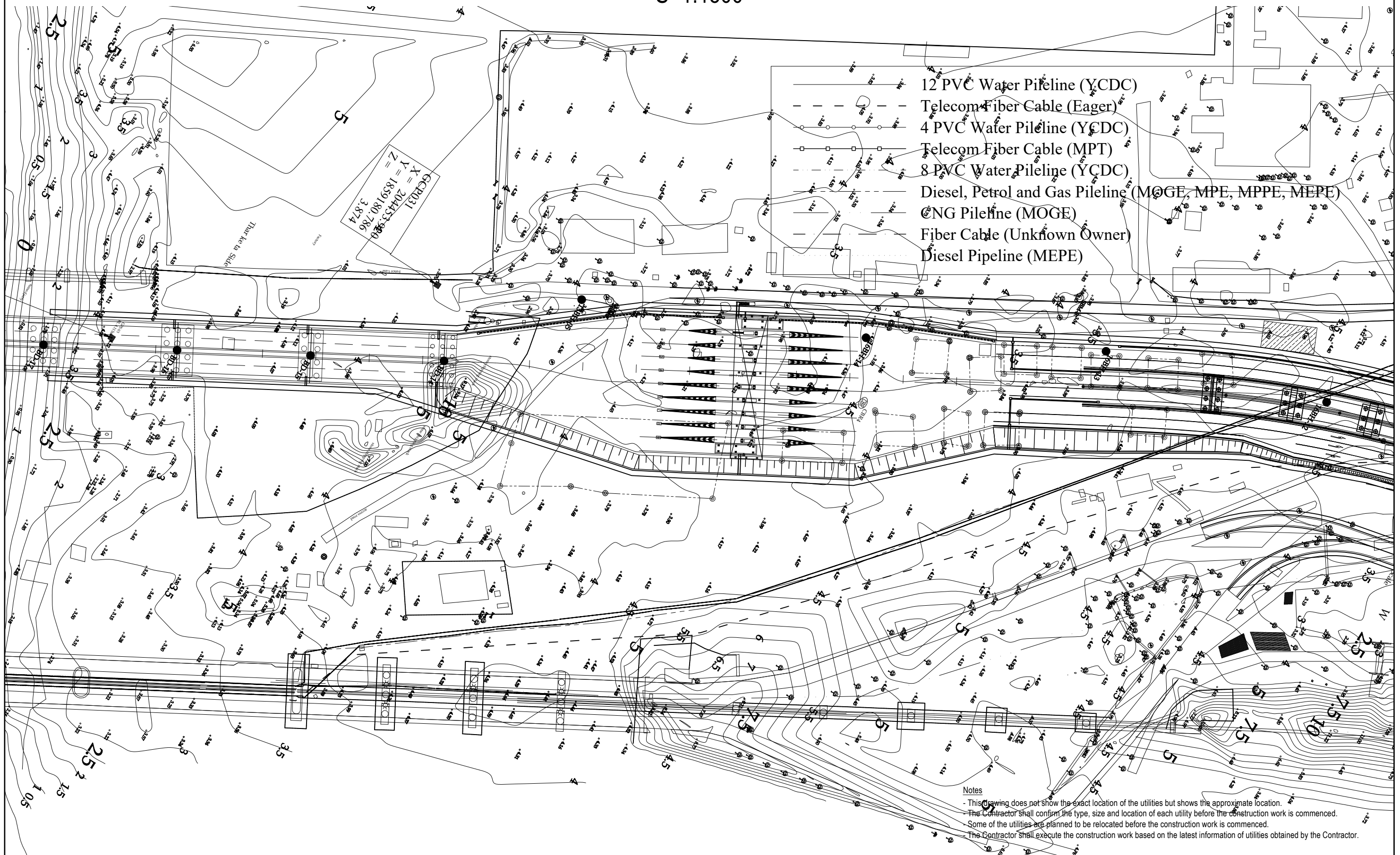
Point No	Easting	Northing	Elevation
GCP 08	204,426.731	1,867,438.719	————
SD 2	197,289.025	1,863,904.781	————
BM76097	214,396.8	1,851,646.3	23.895





# (REFERENCE) EXISTING UNDERGROUND UTILITIES LAYOUT (1)

S=1:1500



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	T. HAYAKAWA		29 Sept.2017
CHECKED BY	T. HAYAKAWA		3 Oct.2017
APPROVED BY	Y. SANO		6 Oct.2017

DRAWING TITLE	PACKAGE
(REFERENCE) EXISTING UNDERGROUND UTILITIES LAYOUT (1)	2
	DWG No.
	P2-REF-0008

# (REFERENCE) EXISTING UNDERGROUND UTILITIES LAYOUT (2)

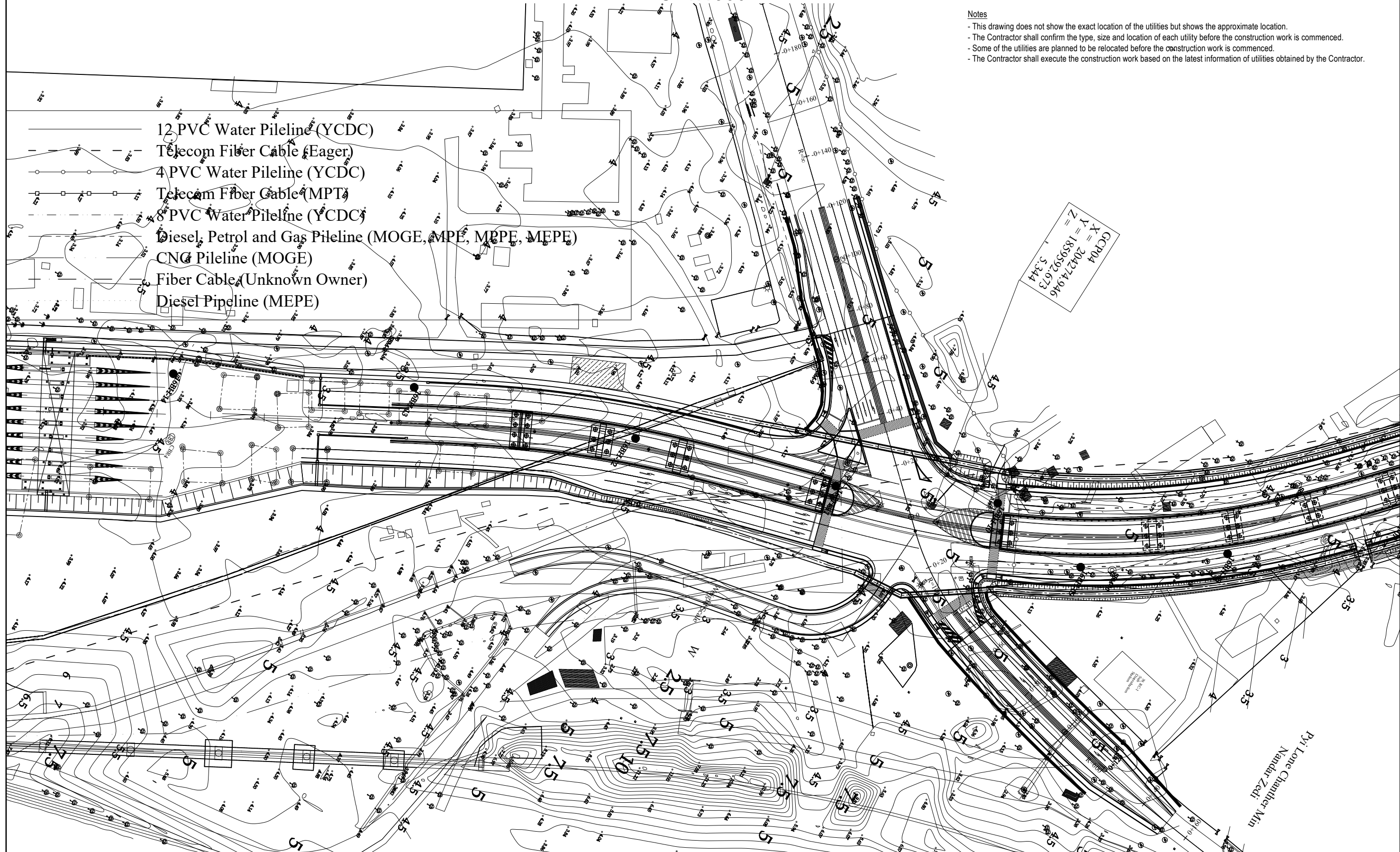
S=1:1500

**Notes**

- This drawing does not show the exact location of the utilities but shows the approximate location.
- The Contractor shall confirm the type, size and location of each utility before the construction work is commenced.
- Some of the utilities are planned to be relocated before the construction work is commenced.
- The Contractor shall execute the construction work based on the latest information of utilities obtained by the Contractor.

- 12 PVC Water Pipeline (YCDC)
- - - Telecom Fiber Cable (Eager)
- - - 4 PVC Water Pipeline (YCDC)
- - - Telecom Fiber Cable (MPT)
- - - 8 PVC Water Pipeline (YCDC)
- - - Diesel, Petrol and Gas Pipeline (MOGE, MPPE, MEPE)
- - - CNG Pipeline (MOGE)
- - - Fiber Cable (Unknown Owner)
- - - Diesel Pipeline (MEPE)

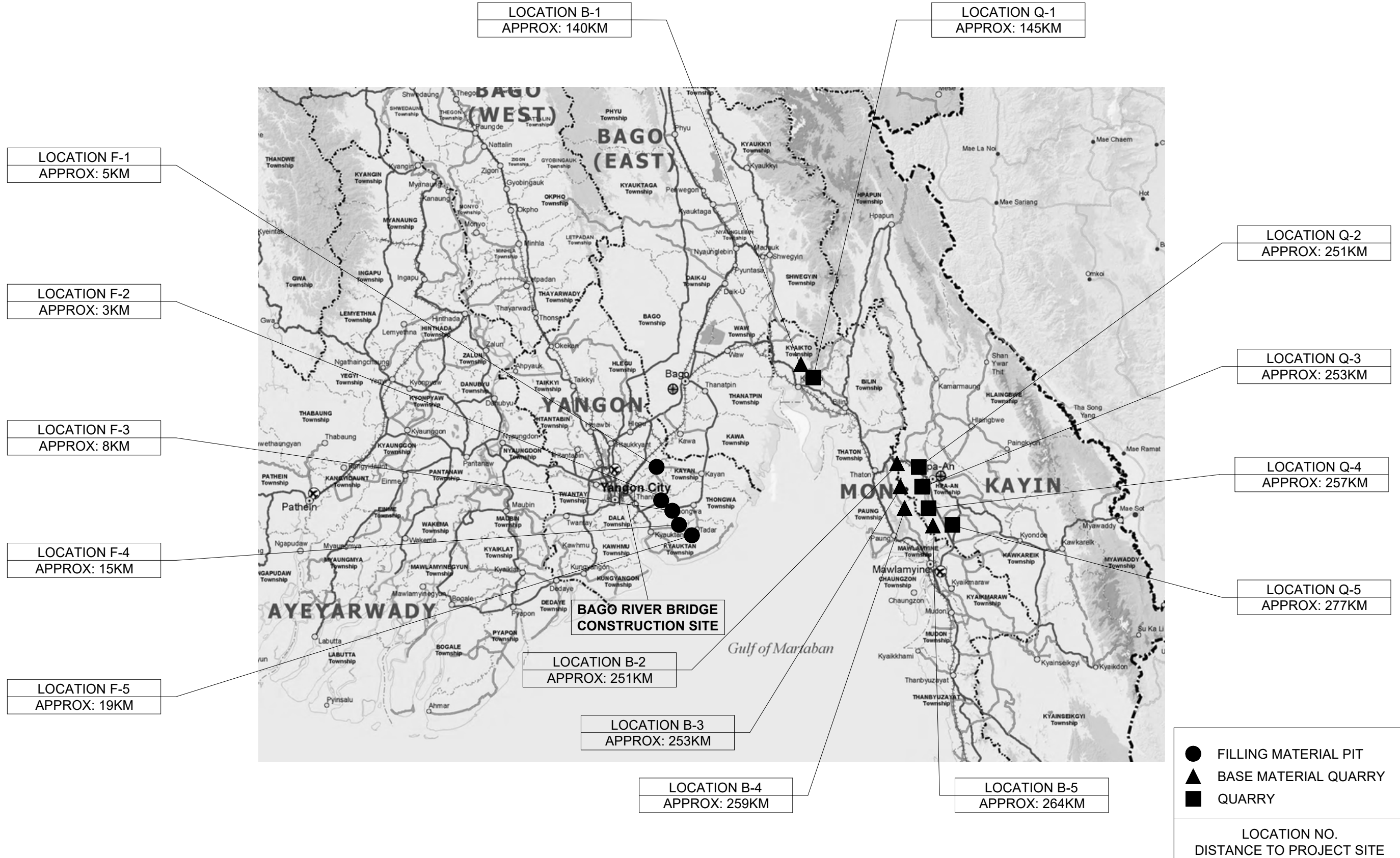
GCPr04  
 X = 204274.946  
 Y = 1859592.673  
 Z = 5.344



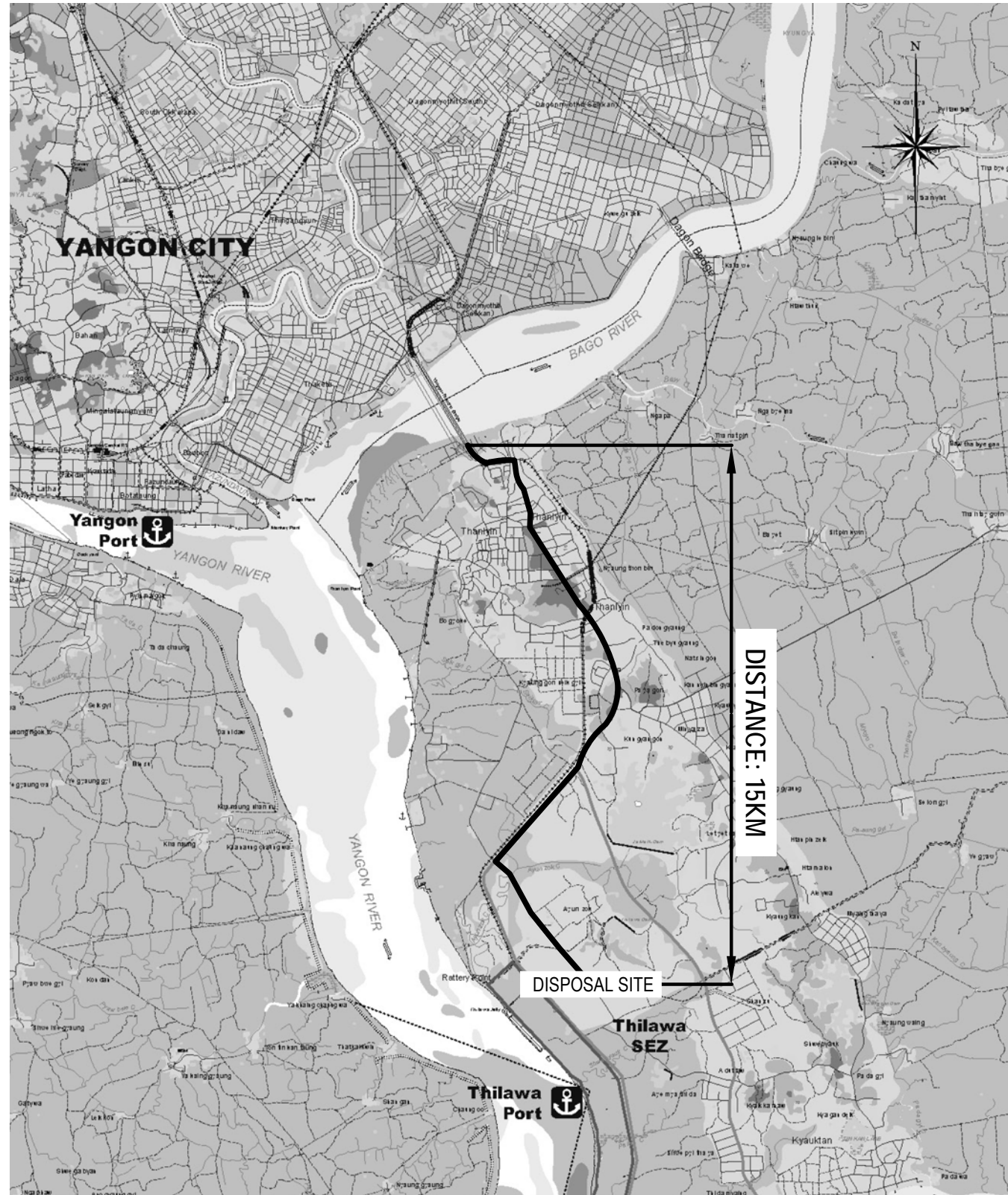
P.Y: Lone Chander Min  
 Nandar Zedi

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) EXISTING UNDERGROUND UTILITIES LAYOUT (2)	PACKAGE	
				PREPARED BY	T. HAYAKAWA			29 Sept.2017	2
				CHECKED BY	T. HAYAKAWA			3 Oct.2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct.2017	P2-REF-0009

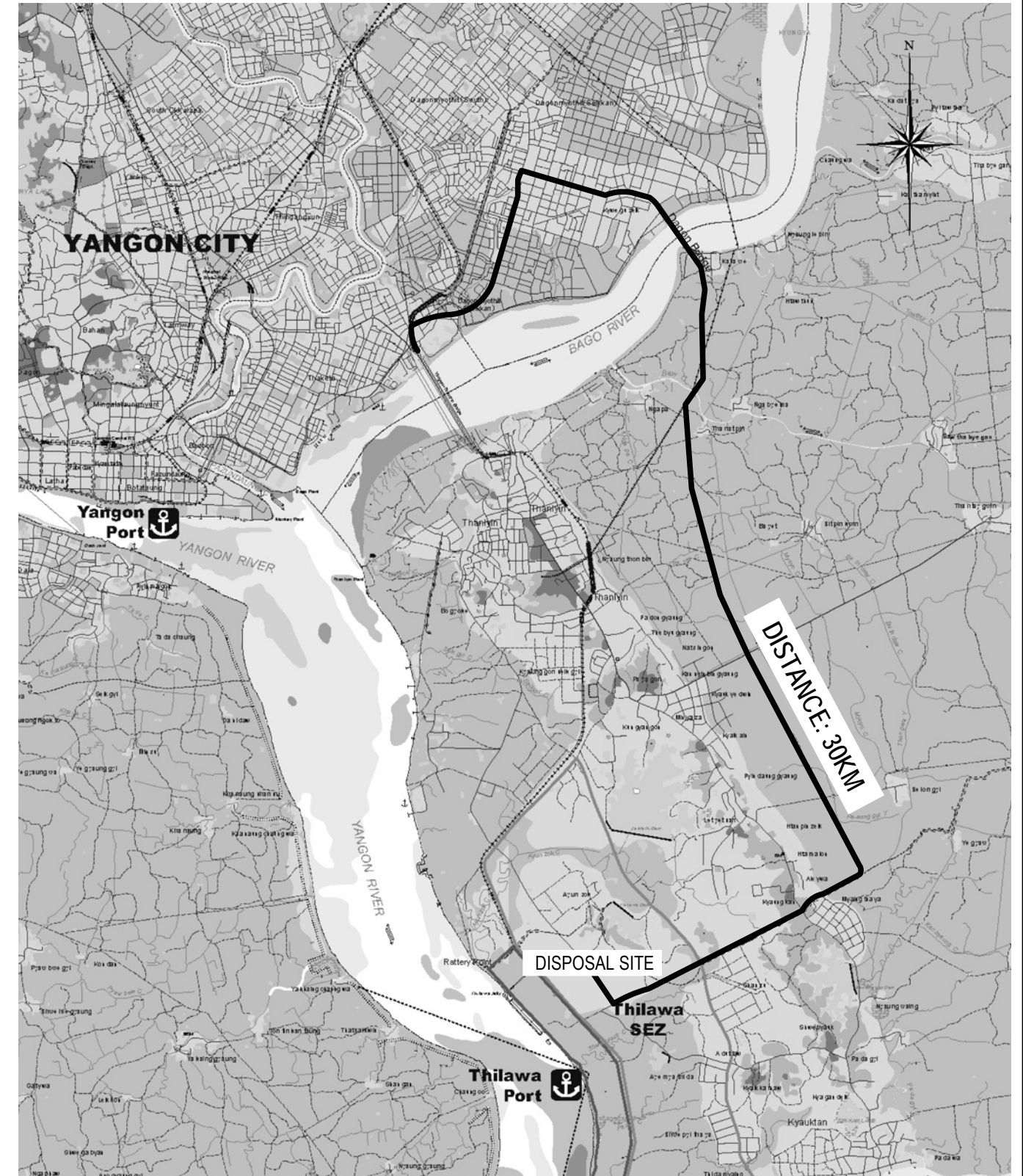
# (REFERENCE) QUARRY SITE LOCATION



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



LAND ROUTE 1  
FROM PACKAGE 1 TO DIPOSAL SITE

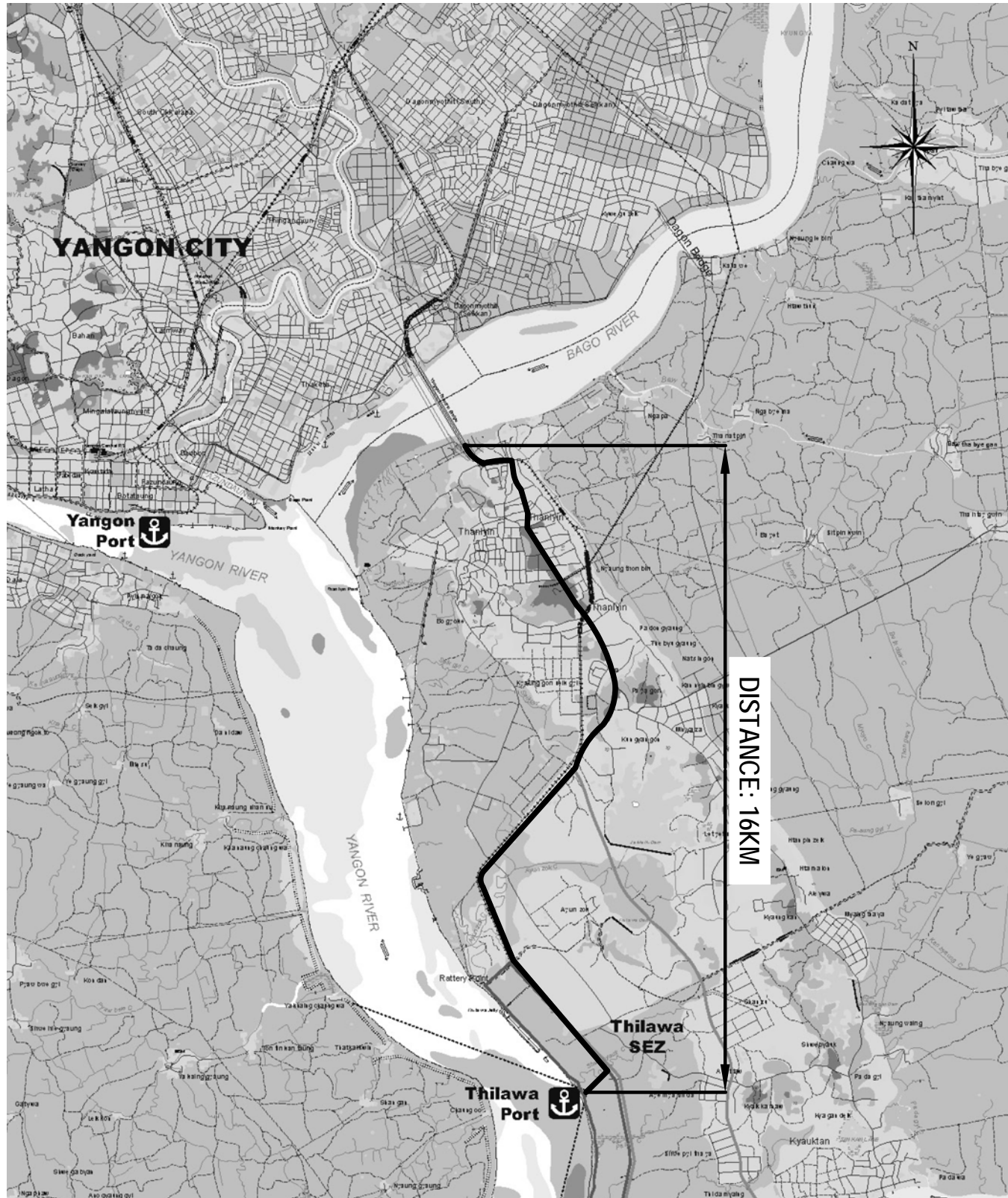


LAND ROUTE 2  
FROM PACKAGE 2 & 3 TO DIPOSAL SITE

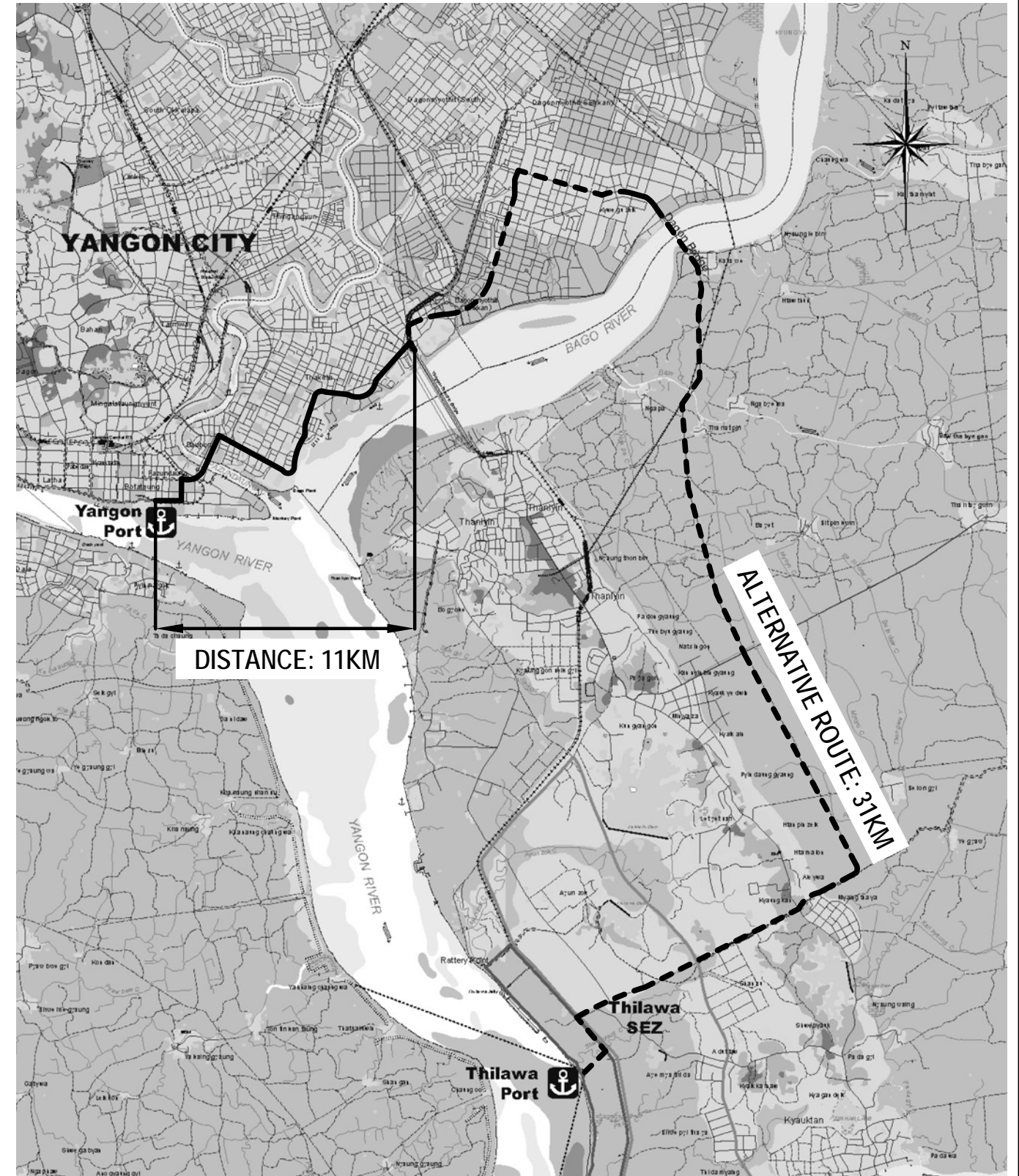
NOTE: The site shown in this drawing is a candidate for the waste disposal site. The contractor may change the waste disposal site according to Engineer's instruction.

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	SIGNATURE	DATE	DRAWING TITLE (REFERENCE) LAND TRANSPORTATION ROUTE TO WASTE DISPOSAL SITE IN THILAWA SEZ	PACKAGE	
				PREPARED BY	T. HAYAKAWA			4 Aug.2017	2
				CHECKED BY	T. HAYAKAWA			14 Aug.2017	DWG No.
				APPROVED BY	Y. SANO			16 Aug.2017	P2-REF-1002

(REFERENCE) LAND TRANSPORTATION ROUTE FROM LANDING PORT



LAND ROUTE 1  
FROM THILAWA PORT TO PACKAGE 1



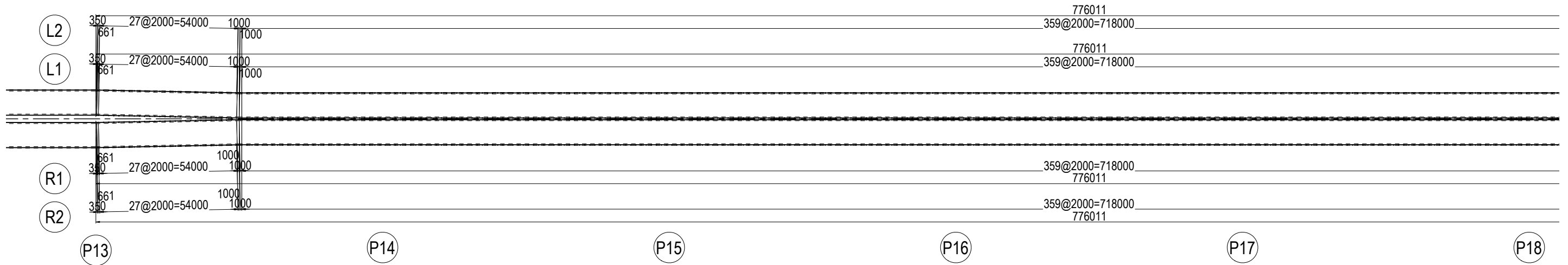
LAND ROUTE 2  
FROM YANGON PORT TO PACKAGE 2 & 3  
(FROM THILAWA PORT TO PACKAGE 2 & 3)

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	2
				CHECKED BY	T. HAYAKAWA			14 Aug.2017	DWG No.
				APPROVED BY	Y. SANO			16 Aug.2017	P2-REF-1003

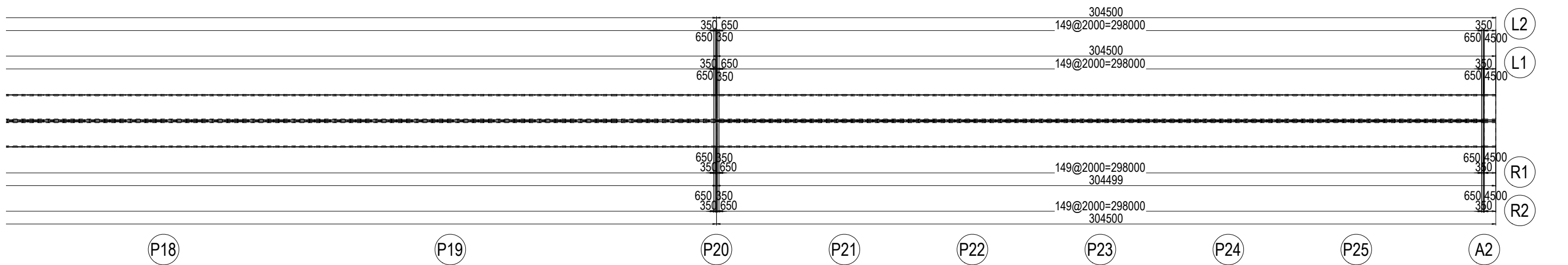
# (REFERENCE) DIAGRAM OF RAILING POST

S=1:800

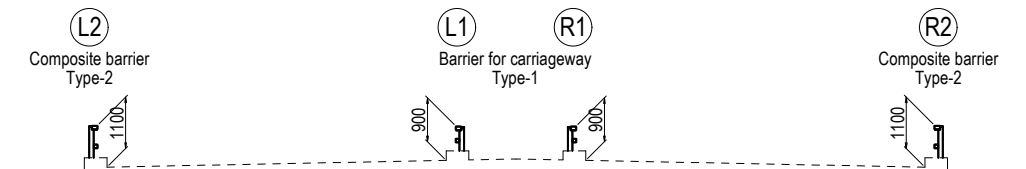
## P13 - P18 (STEEL BOX GIRDER)



## P18 - P20 (STEEL BOX GIRDER), P20 - A2 (PC BOX GIRDER)



### LEGEND

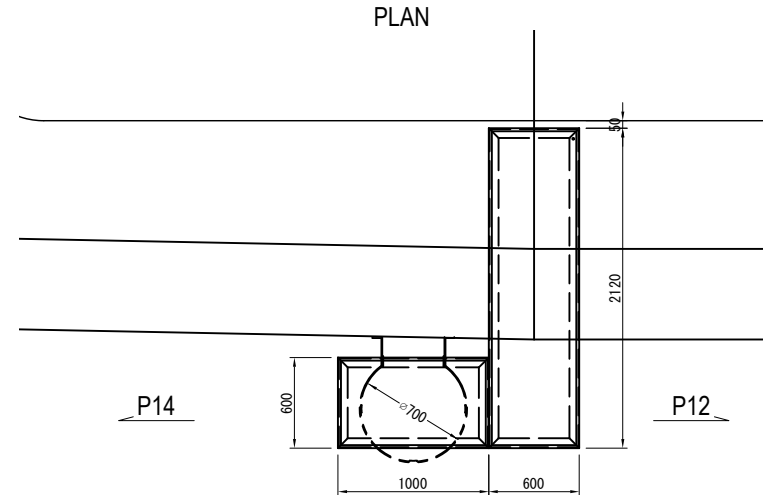


Elevation represents above MSL unless otherwise indicated.

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) DIAGRAM OF RAILING POST	PACKAGE	
				PREPARED BY	T. HAYAKAWA			29 Sep. 2017	2
				CHECKED BY	T. HAYAKAWA			3 Oct. 2017	DWG No.
				APPROVED BY	Y. SANO			6 Oct. 2017	P2-REF-2001

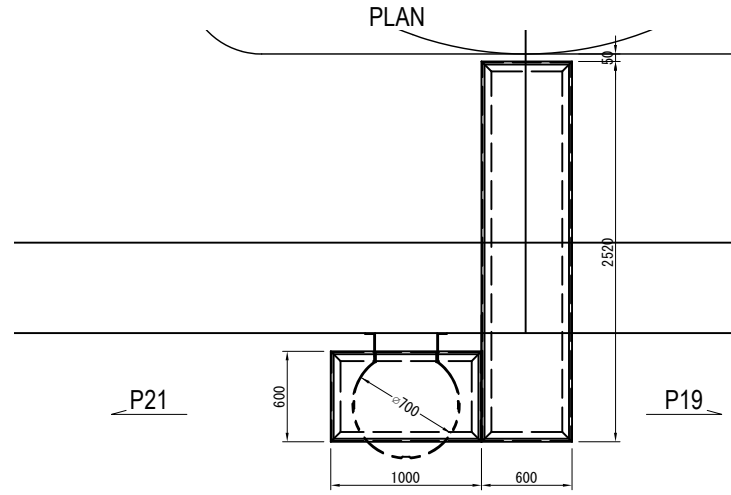
# (REFERENCE) INSPECTION LADDER FROM DECK

LADDER ON P13 PIER



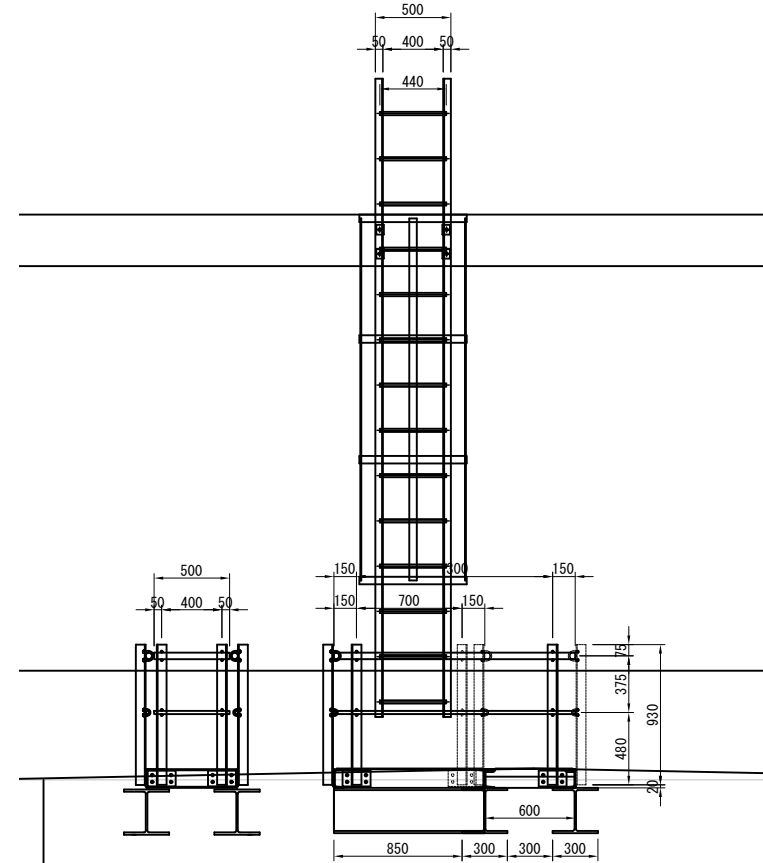
- LADDER**  
 2-L 50x50x6x4230  
 3-FB 50x4.5x2400  
 4-FB 50x4.5x2057  
 14-RB 22qx440  
 4-FB 65x6x264  
 4-Concrete Anchor M16x125  
 4-BN M16x40
- PATHWAY (2)**  
 1-CH PL 560x3.2x960  
 2-C 125x65x6x8x1000  
 2-C 125x65x6x8x600  
 3-FB 50x6x588  
 12-BN M10x30  
 1-PL 240x9x580  
 1-PL 100x9x580
- SUPPORT BEAM**  
 2-H 300x300x15x10x2220  
 2-H 300x300x15x10x1202  
 2-H 300x300x15x10x850  
 2-PL 320x320x10  
 2-PL 320x444x10  
 8-PL 280x145x10  
 16-Concrete Anchor M16x125
- PATHWAY (1)**  
 1-CH PL 560x3.2x2080  
 2-C 125x65x6x8x2120  
 2-C 125x65x6x8x600  
 4-FB 50x6x588  
 26-BN M10x30  
 2-PL 240x9x580  
 2-PL 100x9x580
- HANDRAIL (2)**  
 6-L 65x65x6x930  
 6-PL 105x6x185  
 1-PIPE 42.7x2.3x1600  
 1-PIPE 21.7x1.9x1600  
 1-PIPE 42.7x2.3x1000  
 1-PIPE 42.7x2.3x1000  
 1-PIPE 42.7x2.3x500  
 1-PIPE 42.7x2.3x500  
 6-U-bolt 32A  
 6-U-bolt 15A  
 24-Nut M10
- HANDRAIL (1)**  
 5-L 65x65x6x930  
 5-PL 105x6x185  
 1-PIPE 42.7x2.3x2180  
 1-PIPE 21.7x1.9x2180  
 1-PIPE 42.7x2.3x1580  
 1-PIPE 42.7x2.3x1580  
 5-U-bolt 32A  
 5-U-bolt 15A  
 20-Nut M10

LADDER ON P20 PIER

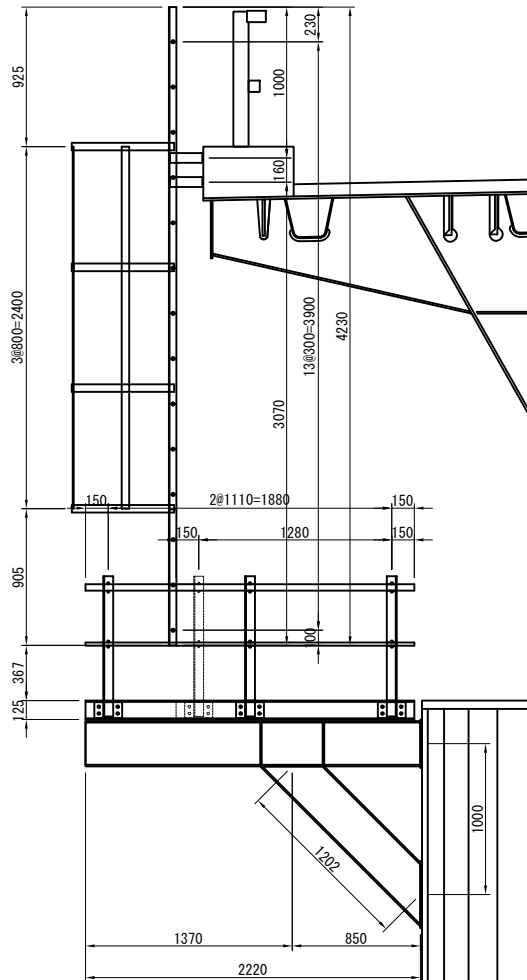


- LADDER**  
 2-L 50x50x6x4230  
 3-FB 50x4.5x2400  
 4-FB 50x4.5x2057  
 14-RB 22qx440  
 4-FB 65x6x264  
 4-Concrete Anchor M16x125  
 4-BN M16x40
- PATHWAY (2)**  
 1-CH PL 560x3.2x960  
 2-C 125x65x6x8x1000  
 2-C 125x65x6x8x600  
 3-FB 50x6x588  
 12-BN M10x30  
 1-PL 240x9x580  
 1-PL 100x9x580
- SUPPORT BEAM**  
 2-H 300x300x15x10x2570  
 2-H 300x300x15x10x1023  
 2-H 300x300x15x10x850  
 2-PL 320x320x10  
 2-PL 320x390x10  
 8-PL 280x145x10  
 16-Concrete Anchor M16x125
- PATHWAY (1)**  
 1-CH PL 560x3.2x2480  
 2-C 125x65x6x8x2520  
 2-C 125x65x6x8x600  
 4-FB 50x6x588  
 26-BN M10x30  
 2-PL 240x9x580  
 2-PL 100x9x580
- HANDRAIL (2)**  
 6-L 65x65x6x930  
 6-PL 105x6x185  
 1-PIPE 42.7x2.3x1600  
 1-PIPE 21.7x1.9x1600  
 1-PIPE 42.7x2.3x1000  
 1-PIPE 42.7x2.3x1000  
 1-PIPE 42.7x2.3x500  
 1-PIPE 42.7x2.3x500  
 6-U-bolt 32A  
 6-U-bolt 15A  
 24-Nut M10
- HANDRAIL (1)**  
 5-L 65x65x6x930  
 5-PL 105x6x185  
 1-PIPE 42.7x2.3x2520  
 1-PIPE 21.7x1.9x2520  
 1-PIPE 42.7x2.3x1920  
 1-PIPE 42.7x2.3x1920  
 5-U-bolt 32A  
 5-U-bolt 15A  
 20-Nut M10

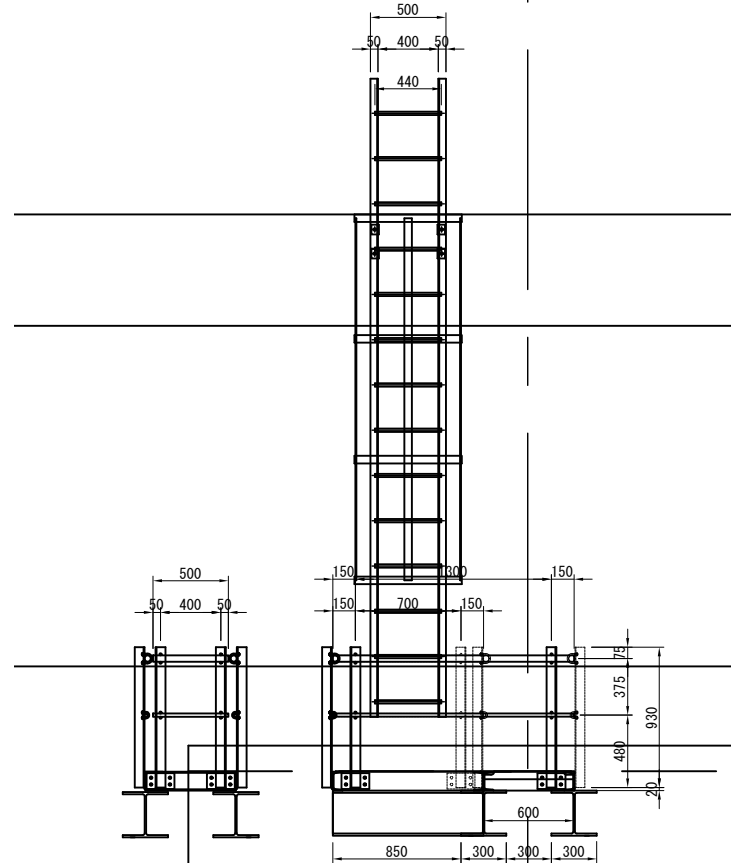
ELEVATION



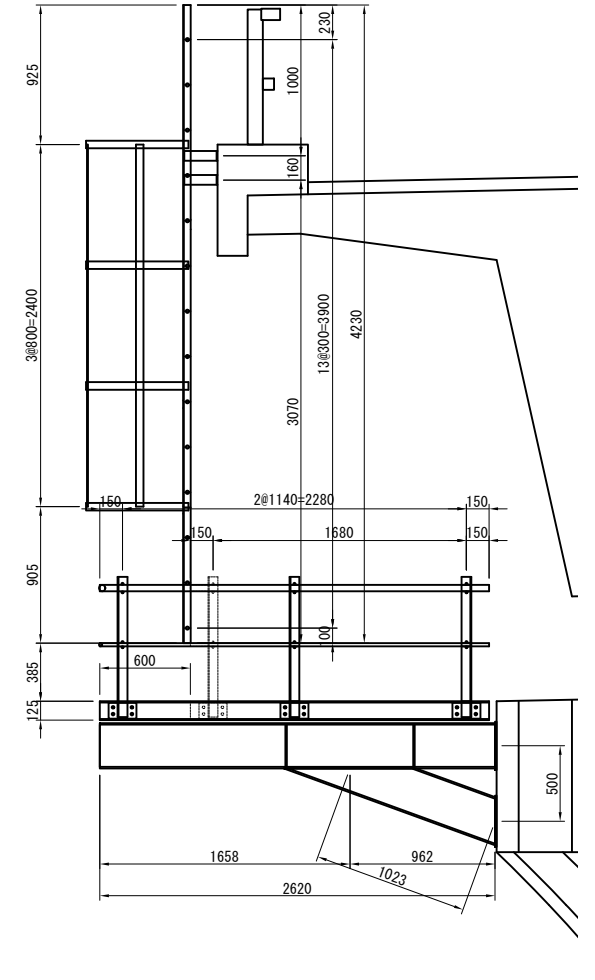
SECTION



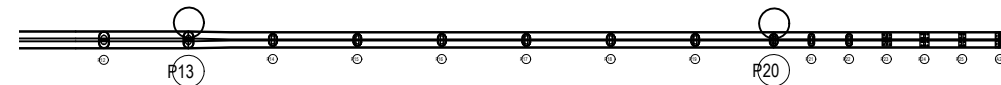
ELEVATION



SECTION



LOCATION



Note: The formed steels of the inspection ladder shall be SM400 unless otherwise specified.

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 (REFERENCE) INSPECTION LADDER FROM DECK	PACKAGE 2 DWG No. P2-REF-2002
				PREPARED BY	T. HAYAKAWA	29 Sep. 2017		
				CHECKED BY	T. HAYAKAWA	3 Oct. 2017		
				APPROVED BY	Y. SANO	6 Oct. 2017		