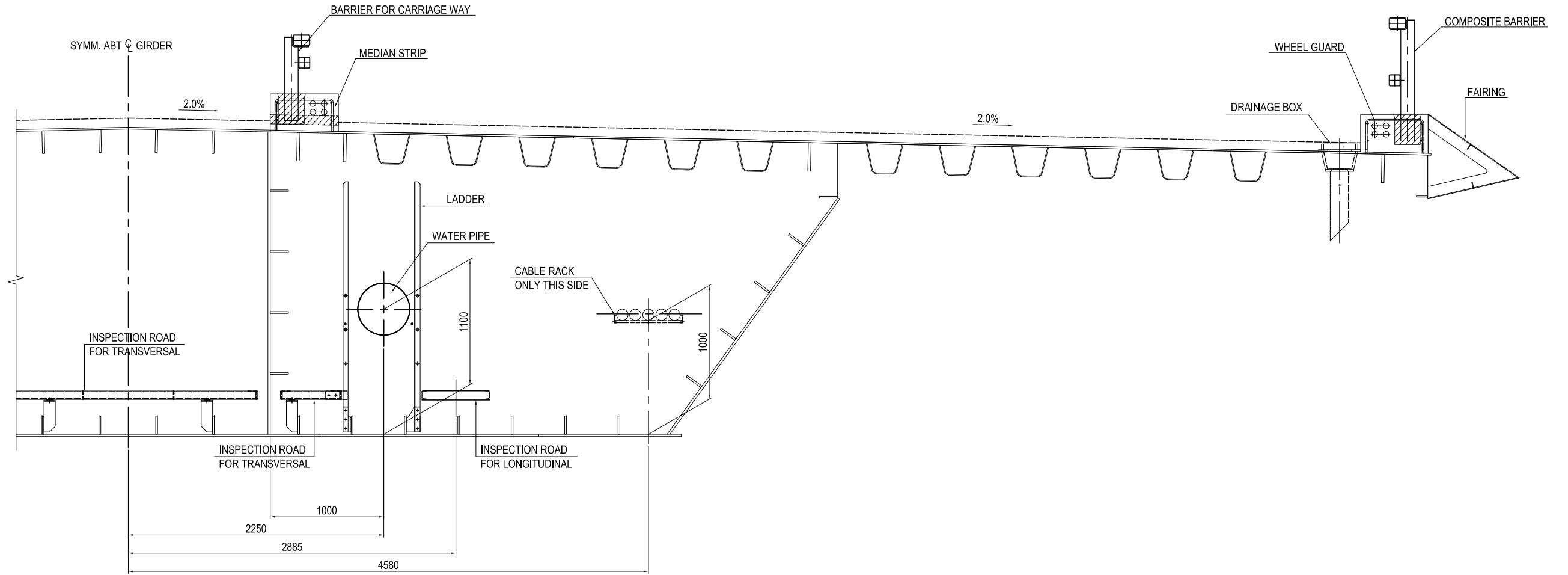


MAIN GIRDER ANCILLARY WORKS LAYOUT (1)

S=1:40

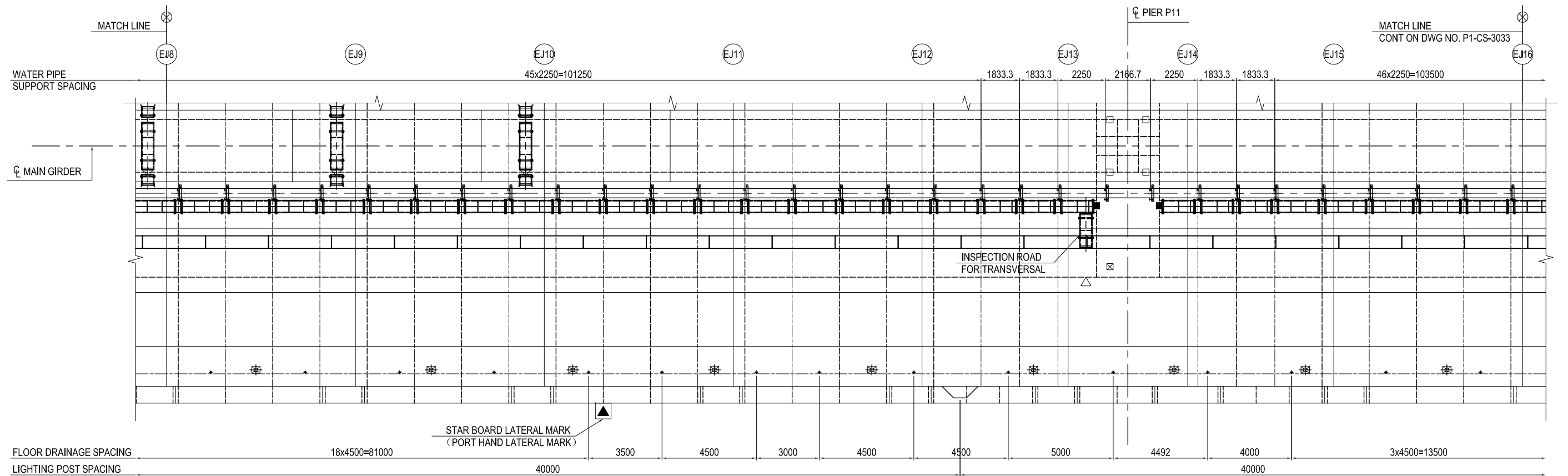
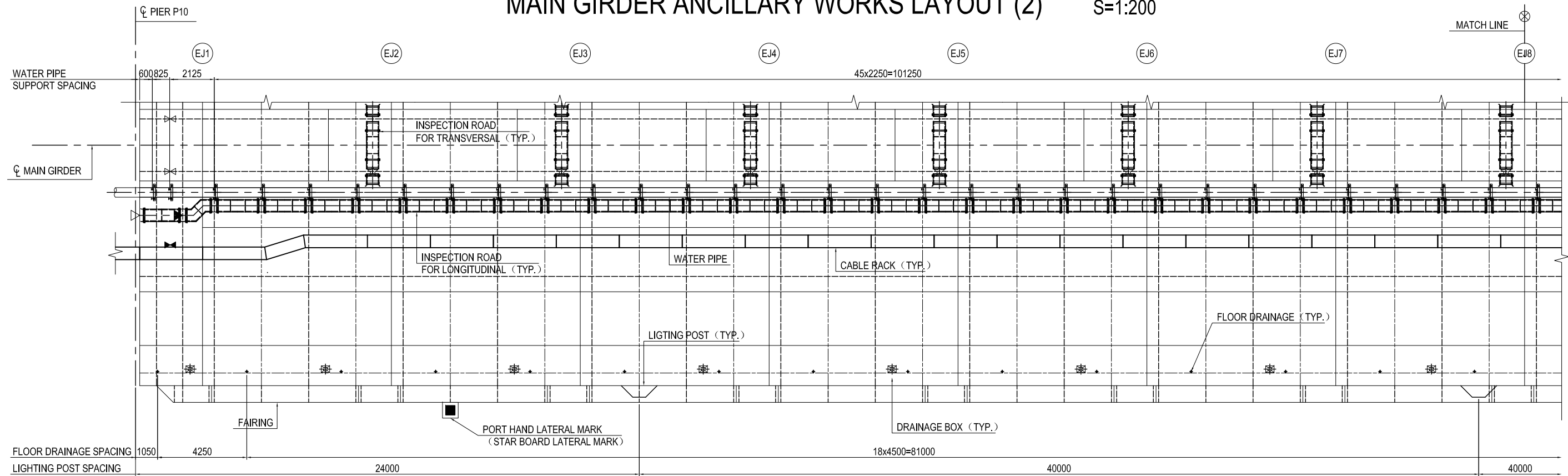
TYPICAL SECTION



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. TOMODA	<i>友田 智雄</i>	27. Nov. 2017	MAIN GIRDER ANCILLARY WORKS LAYOUT (1)	1
				T. HAYAKAWA	<i>平川 知平</i>	28. Nov. 2017		DWG No.
				Y. SANO	<i>佐野 祐一</i>	29. Nov. 2017		P1-CS-3031

MAIN GIRDER ANCILLARY WORKS LAYOUT (2)

S=1:200



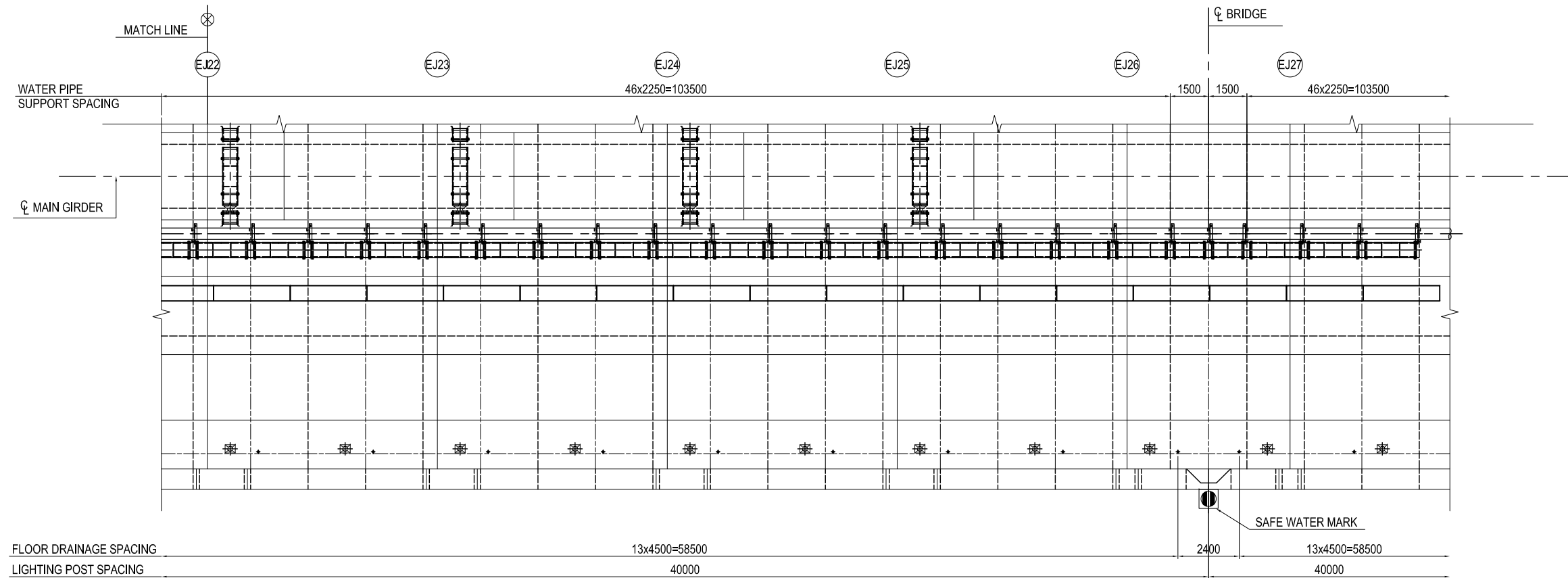
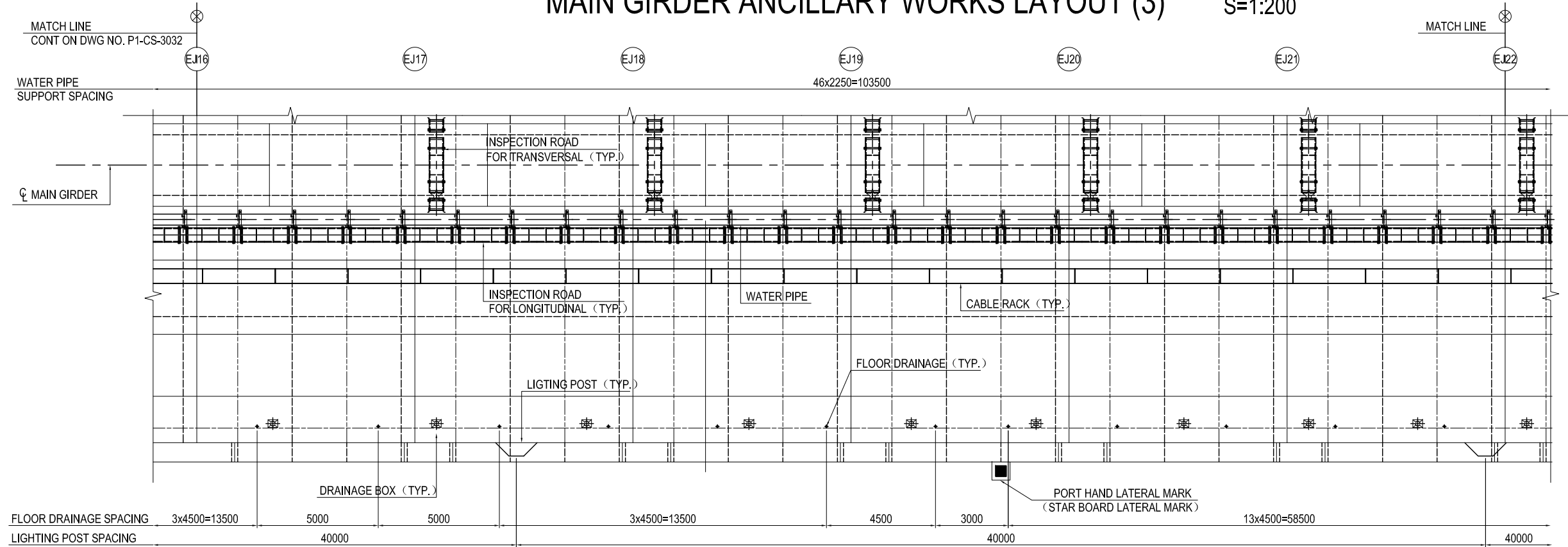
NOTES:

- 1 - FROM CL BRIDGE TO PIER P13 READ IN BRACKETS.
- 2 - THE LOCATION OF THE NAVIGATION LIGHTINGS WILL BE INSTRUCTED BY THE ENGINEER DURING CONSTRUCTION.
- 3 - AS FOR THE ERECTION JOINT AND THE NAVIGATION LIGHTINGS THAT INTERFERES WITH THE WIDENING PART, BE SURE TO MAKE ADJUSTMENTS ACCORDINGLY SO THAT LIGHTING INTERVALS DO NOT EXCEED 40m.

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 MAIN GIRDER ANCILLARY WORKS LAYOUT (2)	PACKAGE 1 DWG No. P1-CS-3032	
				PREPARED BY	T.TOMODA	友田 智雄			27. Nov.2017
				CHECKED BY	T. HAYAKAWA	平川 知那			28. Nov.2017
				APPROVED BY	Y. SANO	佐野 祐一			29. Nov.2017

MAIN GIRDER ANCILLARY WORKS LAYOUT (3)

S=1:200



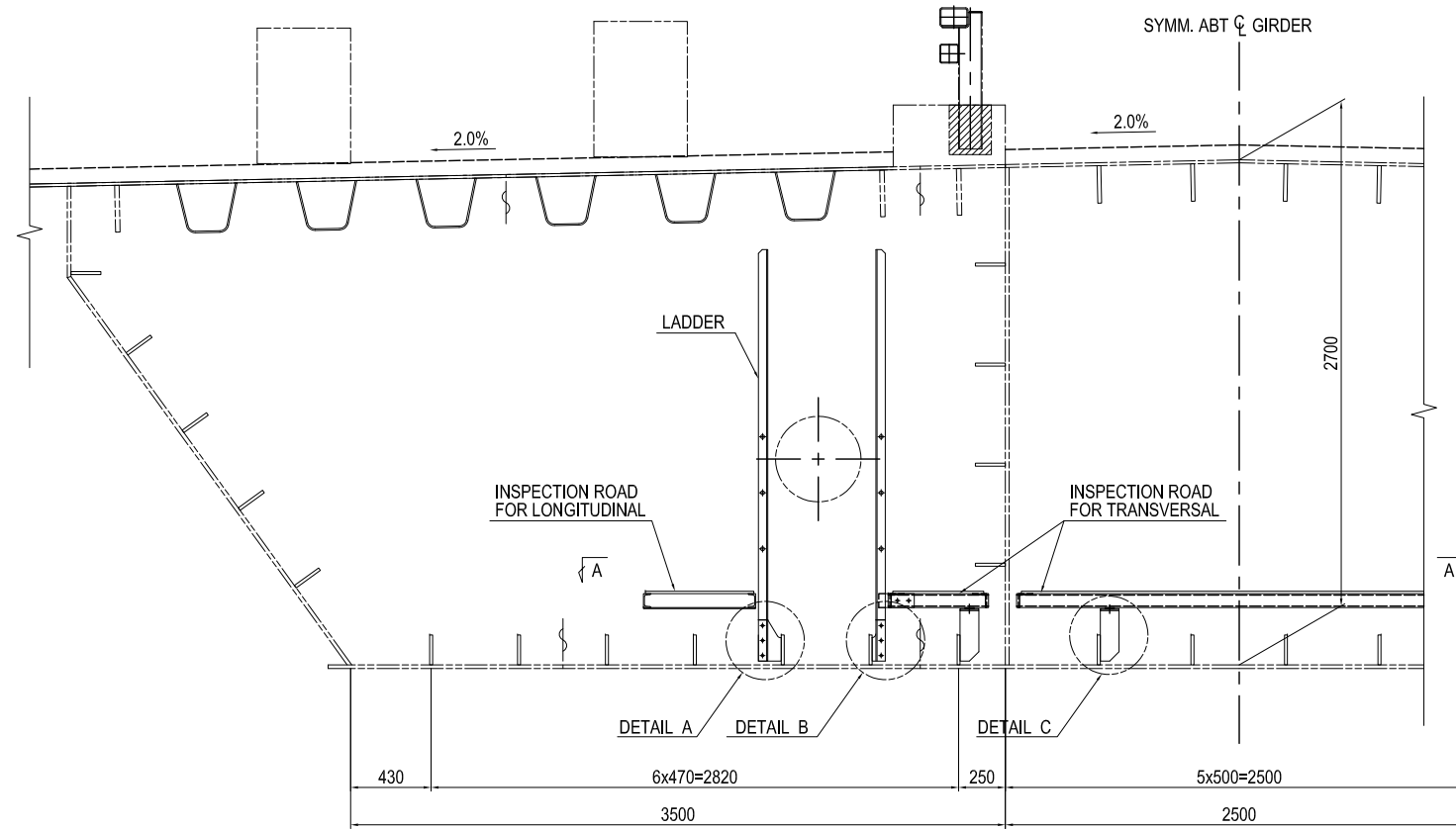
NOTES:

- 1 - FROM ϕ BRIDGE TO PIER P13 READ IN BRACKETS.
- 2 - THE LOCATION OF THE NAVIGATION LIGHTINGS WILL BE INSTRUCTED BY THE ENGINEER DURING CONSTRUCTION.
- 3 - AS FOR THE ERECTION JOINT AND THE NAVIGATION LIGHTINGS THAT INTERFERES WITH THE WIDENING PART, BE SURE TO MAKE ADJUSTMENTS ACCORDINGLY SO THAT LIGHTING INTERVALS DO NOT EXCEED 40m.

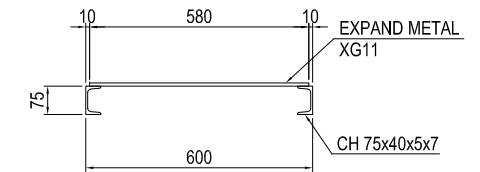
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE	
				PREPARED BY	T.TOMODA				27. Nov.2017
				CHECKED BY	T. HAYAKAWA				28. Nov.2017
				APPROVED BY	Y. SANO				29. Nov.2017
							MAIN GIRDER ANCILLARY WORKS LAYOUT (3)	1	
							DWG No.	P1-CS-3033	

INSPECTION ROAD (1) S=1:40

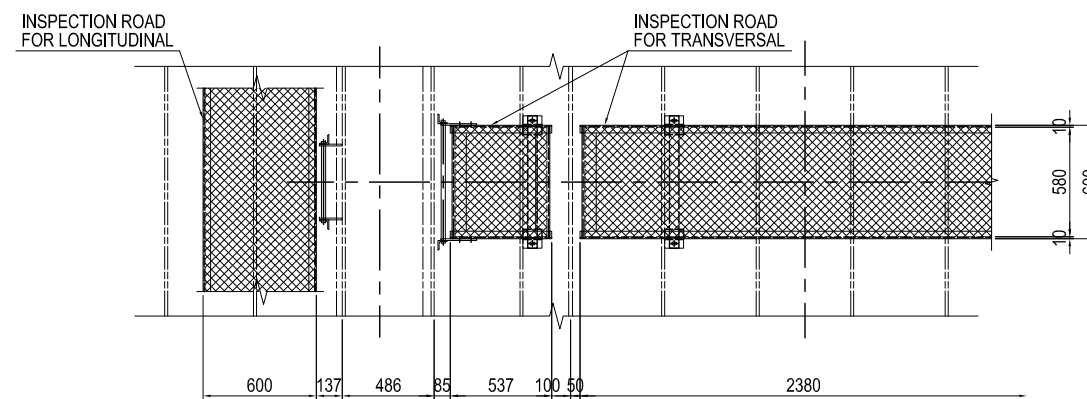
TYPICAL SECTION



TYPICAL SECTION DETAIL S=1:20



SECTION A-A



NOTES:

- 1 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 2 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANISED COATING).

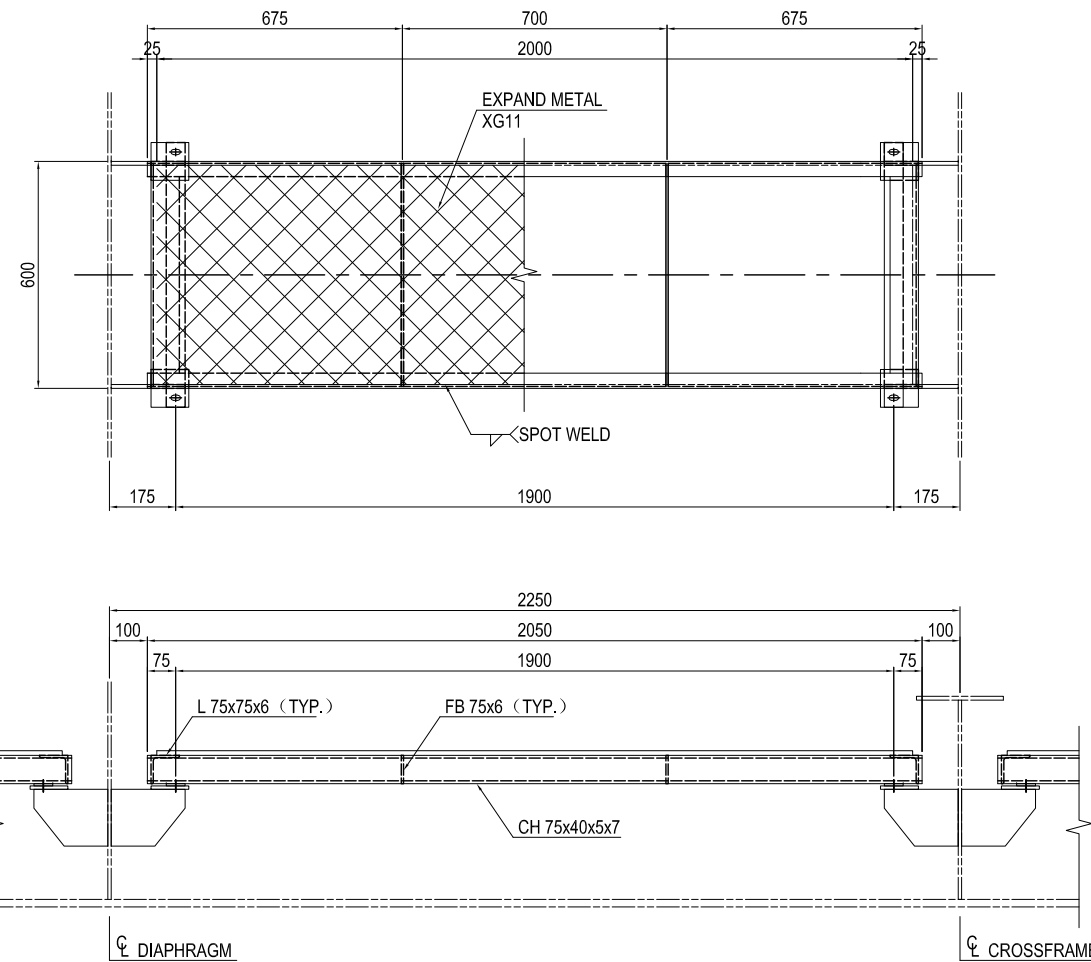
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE	
				PREPARED BY	T.TOMODA				27. Nov.2017
				CHECKED BY	T. HAYAKAWA				28. Nov.2017
				APPROVED BY	Y. SANO				29. Nov.2017
							INSPECTION ROAD (1)	1	
								DWG No.	
								P1-CS-3034	

INSPECTION ROAD (2)

S=1:20

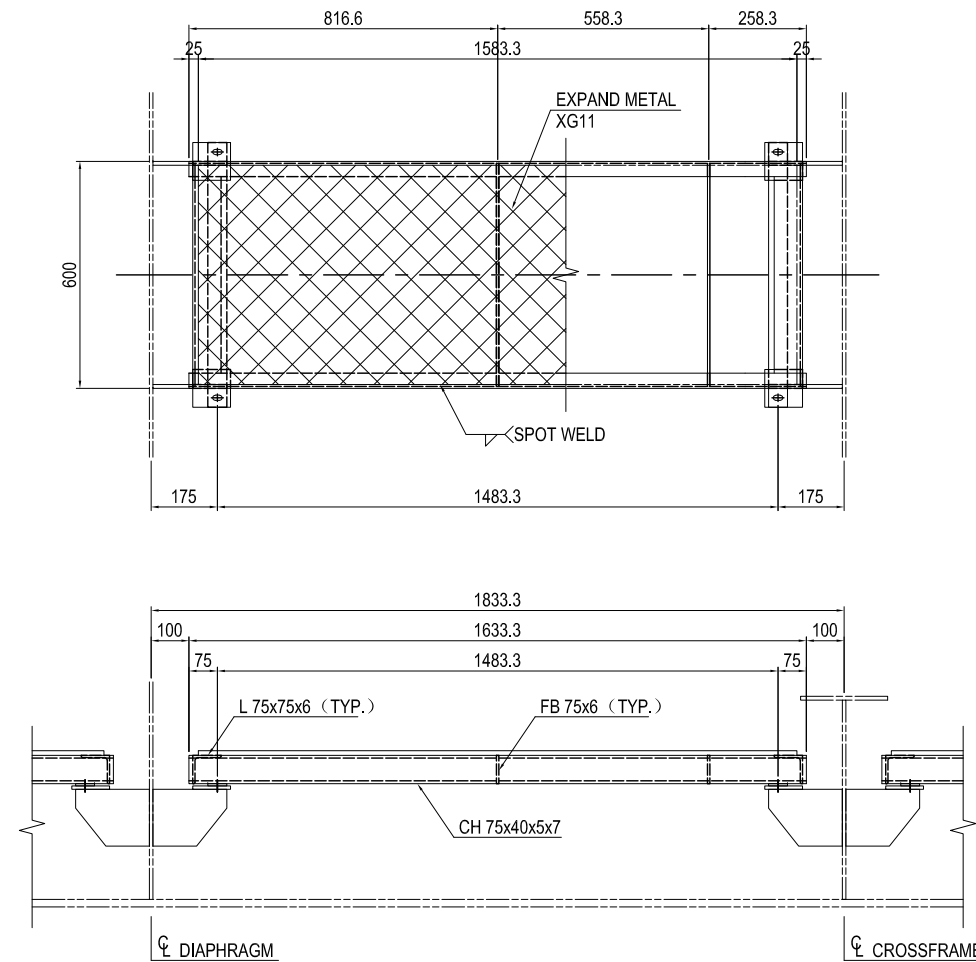
FOR LONGITUDINAL

TYPICAL DETAIL
(Qty = 360)



- 2 - [75x40x5x7x2050(SS400)
- 2 - L 75x75x6x590(SS400)
- 2 - FB 75x6x590(SS400)
- 2 - FB 50x6x700(SS400)
- 1 - XG11 580x2000(SS400)
- 4 - PL 150x 9x 196(SM400A)
- 4 - PL 100x 9x 100(SM400A)
- 4 - B.N M12x 40(1-W,1-UNut)(SS400)

AROUND INTERMEDIATE BEARING LINE
(Qty = 16)



- 2 - [75x40x5x7x1633(SS400)
- 2 - L 75x75x6x590(SS400)
- 1 - FB 75x6x590(SS400)
- 2 - FB 50x6x700(SS400)
- 1 - XG11 580x1583(SS400)
- 4 - PL 150x 9x 196(SM400A)
- 4 - PL 100x 9x 100(SM400A)
- 4 - B.N M12x 40(1-W,1-UNut)(SS400)

NOTES:

- 1 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 2 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

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 INSPECTION ROAD (2)	PACKAGE	
				PREPARED BY	T.TOMODA			27. Nov.2017	1
				CHECKED BY	T. HAYAKAWA			28. Nov.2017	DWG No.
				APPROVED BY	Y. SANO			29. Nov.2017	P1-CS-3035

INSPECTION ROAD (3)

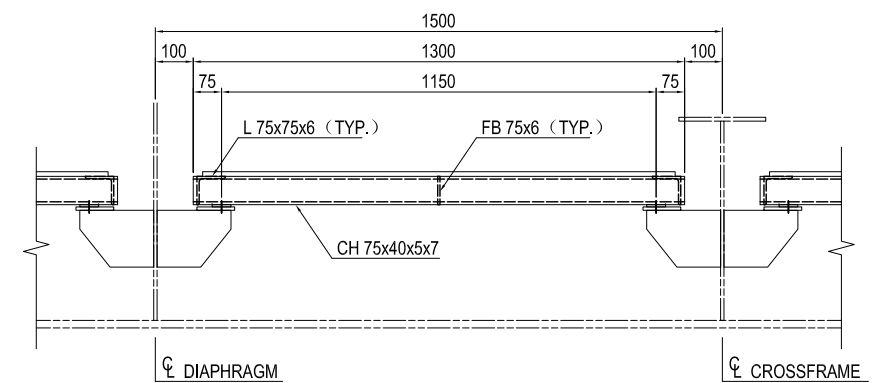
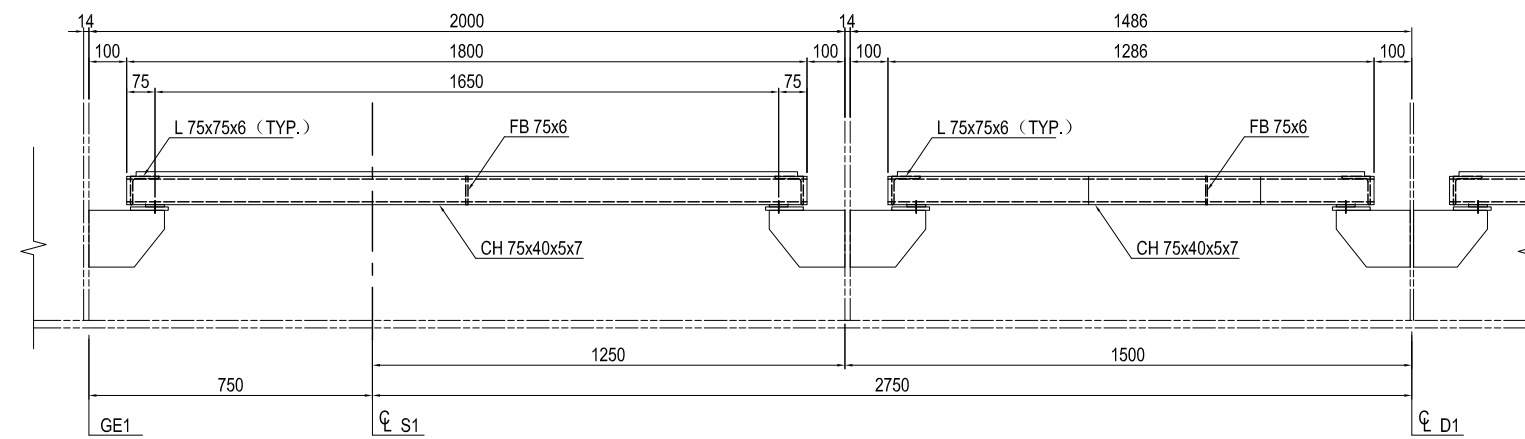
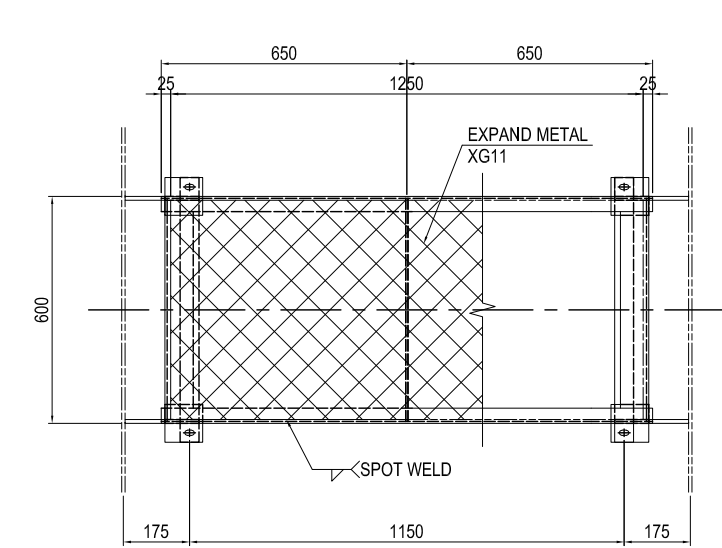
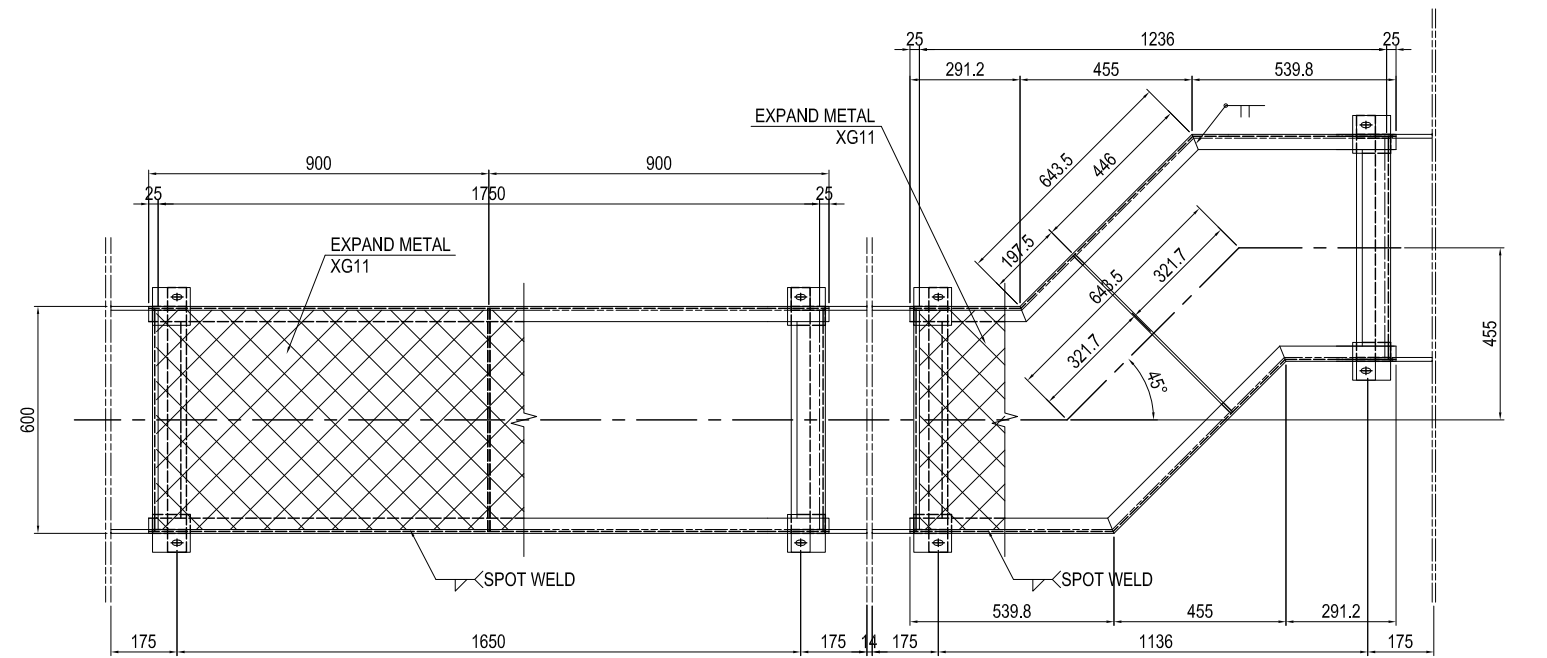
S=1:20

FOR LONGITUDINAL

IN END CROSS BEAM
(Q'ty = 4)

NEAR END CROSS BEAM
(Q'ty = 4)

AROUND ϕ BRIDGE
(Q'ty = 4)



- 2 - [75x40x5x7x1800(SS400)
- 2 - L 75x75x6x590(SS400)
- 1 - FB 75x6x590(SS400)
- 2 - FB 50x6x700(SS400)
- 1 - XG11 580x1750(SS400)
- 4 - PL 150x 9x 200(SM400A)
- 4 - PL 100x 9x 100(SM400A)
- 4 - B.N M12x 40(1-W,1-UNut)(SS400)

- 2 - [75x40x5x7x 308(SS400)
- 2 - [75x40x5x7x 660(SS400)
- 2 - [75x40x5x7x 540(SS400)
- 2 - L 75x75x6x590(SS400)
- 1 - FB 75x6x590(SS400)
- 2 - FB 50x6x700(SS400)
- 1 - XG11 1035x1236(SS400)
- 2 - PL 150x 9x 200(SM400A)
- 2 - PL 150x 9x 196(SM400A)
- 4 - PL 100x 9x 100(SM400A)
- 4 - B.N M12x 40(1-W,1-UNut)(SS400)

- 2 - [75x40x5x7x1300(SS400)
- 2 - L 75x75x6x590(SS400)
- 1 - FB 75x6x590(SS400)
- 2 - FB 50x6x700(SS400)
- 1 - XG11 580x1250(SS400)
- 4 - PL 150x 9x 196(SM400A)
- 4 - PL 100x 9x 100(SM400A)
- 4 - B.N M12x 40(1-W,1-UNut)(SS400)

NOTES:

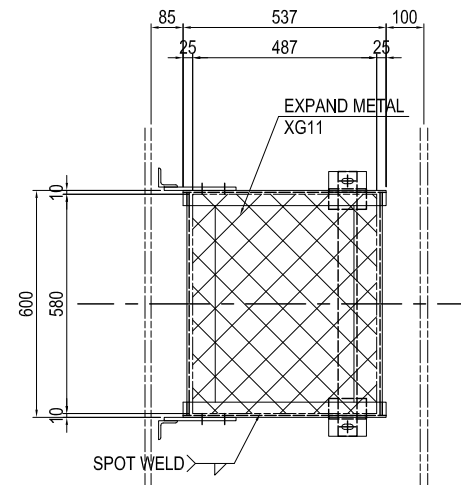
- 1 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 2 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

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 PREPARED BY T.TOMODA CHECKED BY T. HAYAKAWA APPROVED BY Y. SANO	SIGNATURE 友田 隆雄 平川 知平 佐藤 祐一	DATE 27. Nov.2017 28. Nov.2017 29. Nov.2017	DRAWING TITLE INSPECTION ROAD (3)	PACKAGE 1 DWG No. P1-CS-3036
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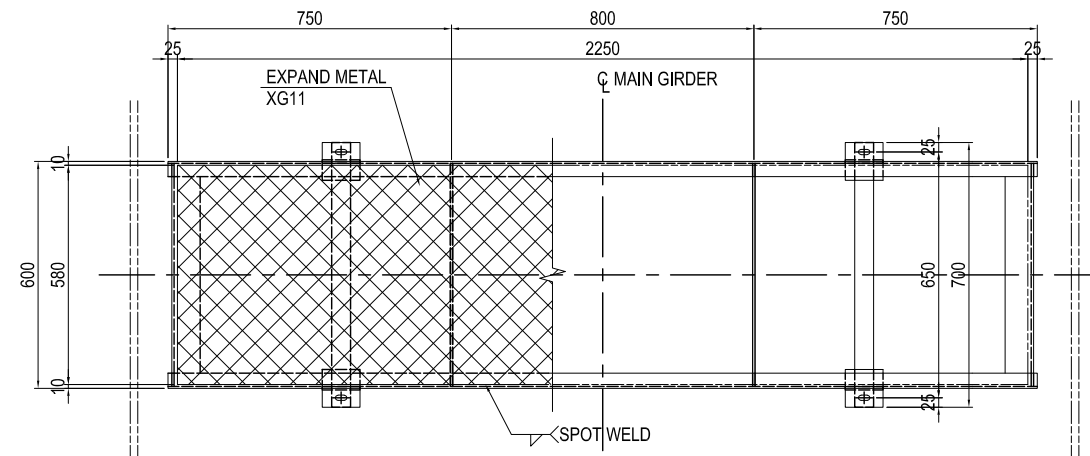
INSPECTION ROAD (4) S=1:20

FOR TRANSVERSAL

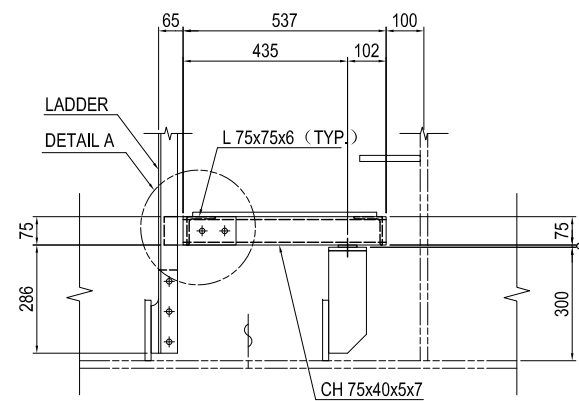
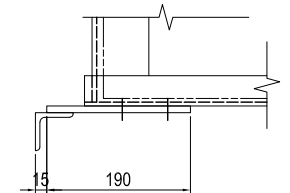
OUTSIDE MIDDLE BOX GIRDER (Q'ty = 80)



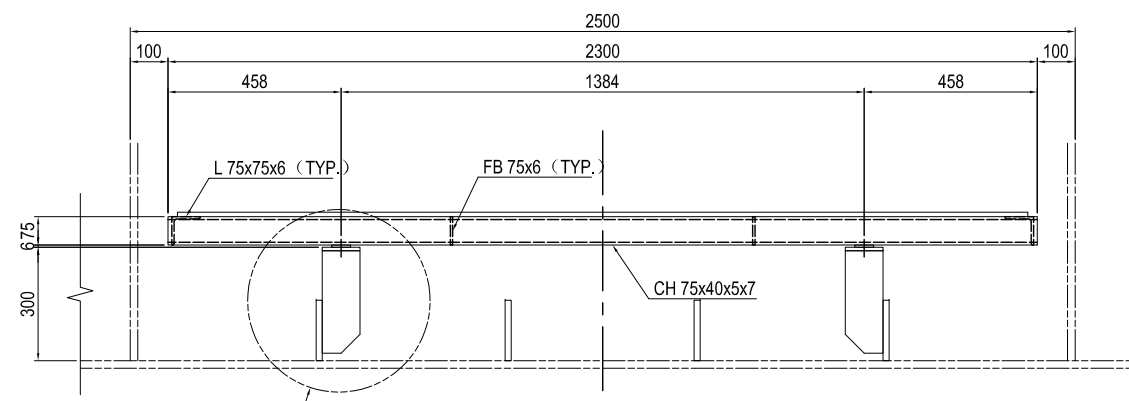
INSIDE MIDDLE BOX GIRDER (Q'ty = 40)



DETAIL A S=1:10

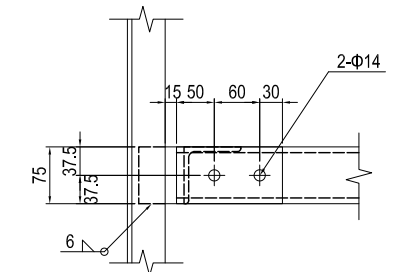


- 2 - [75x40x5x7x 537(SS400)
- 2 - L 75x75x6x590(SS400)
- 1 - FB 50x6x700(SS400)
- 1 - XG11 580x 487(SS400)
- 2 - PL 100x 9x 271(SM400A)
- 2 - PL 100x 9x 100(SM400A)
- 2 - B.N M12x 40(1-W,UNut)(SS400)
- 2 - PL 75x 9x 190(SM400A)
- 4 - B.N M12x 35(1-W,UNut)(SS400)



SEE DWG NO. P1-CS-3038
FOR DETAIL B

- 2 - [75x40x5x7x2280(SS400)
- 2 - L 75x75x6x590(SS400)
- 2 - FB 75x6x590(SS400)
- 2 - FB 50x6x700(SS400)
- 1 - XG11 580x2230(SS400)
- 4 - PL 100x 9x 271(SM400A)
- 4 - PL 100x 9x 100(SM400A)
- 4 - B.N M12x 40(1-W,1-UNut)(SS400)



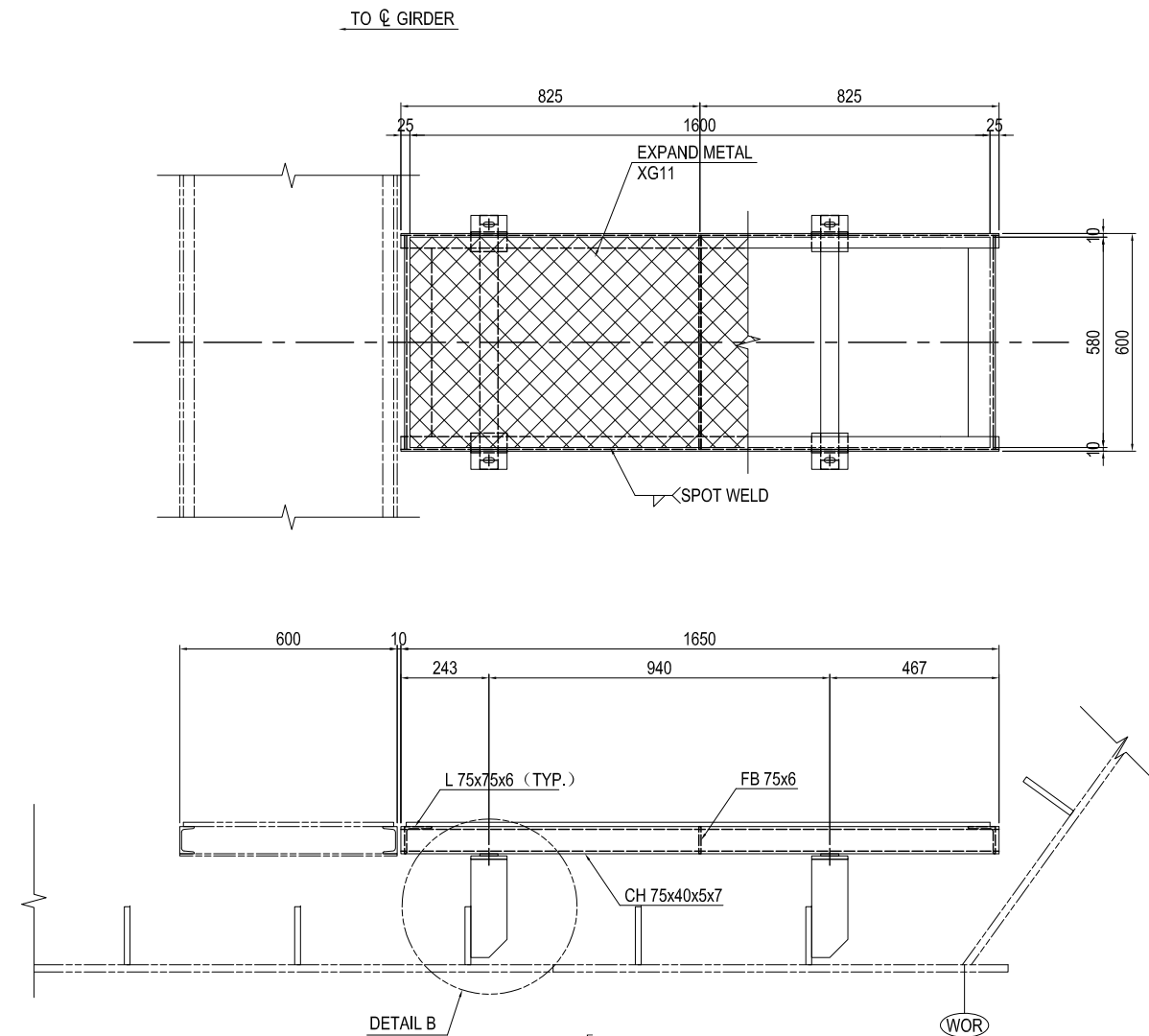
NOTES:

- 1 - HOT-DIP GALVANIZED COATING OVER 550g/m² 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 2 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

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	T.TOMODA T. HAYAKAWA Y. SANO	友田 智准 平川 知平 佐野 祐一	27. Nov.2017 28. Nov.2017 29. Nov.2017	INSPECTION ROAD (4)
								1 DWG No. P1-CS-3037

INSPECTION ROAD (5) S=1:20

FOR TRANSVERSAL (Q'ty = 2)

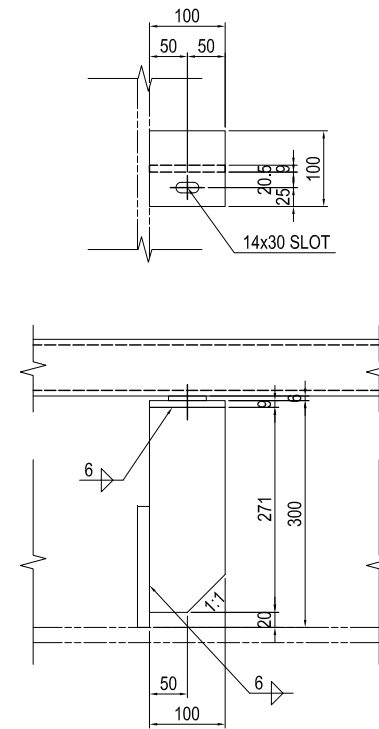


- 2 - [75x40x5x7x1650(SS400)
- 2 - L 75x75x6x590(SS400)
- 1 - FB 75x6x590(SS400)
- 2 - FB 50x6x700(SS400)
- 1 - XG11 580x1600(SS400)
- 4 - PL 100x 9x 271(SM400A)
- 4 - PL 100x 9x 100(SM400A)
- 4 - B.N M12x 40(1-W,1-UNut)(SS400)

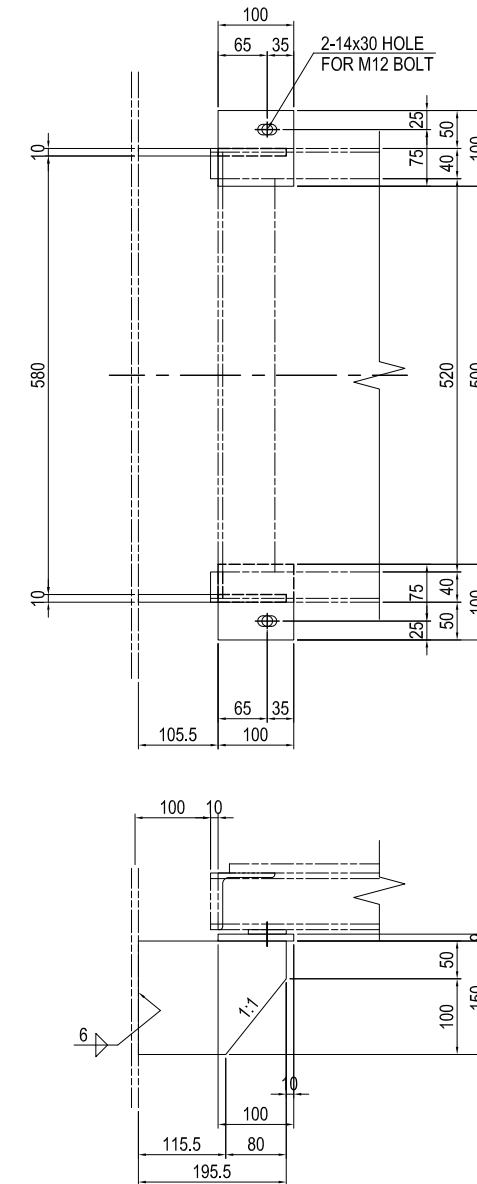
NOTES:

- 1 - HOT-DIP GALVANIZED COATING OVER 550g/m² 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 2 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

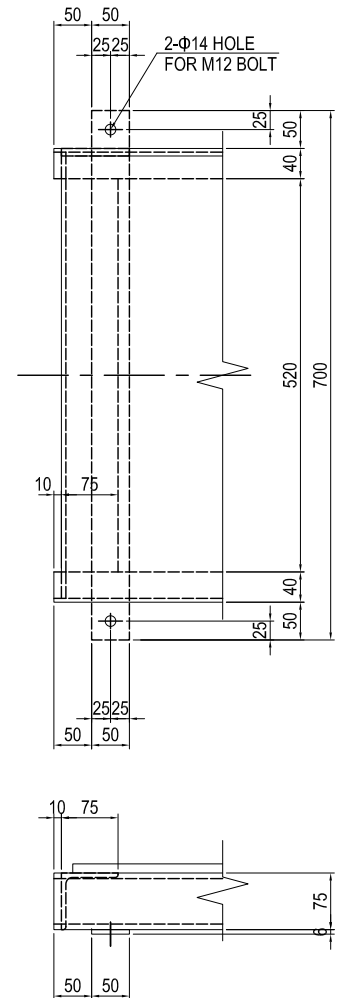
DETAIL B S=1:10



CRADLE DETAIL S=1:10



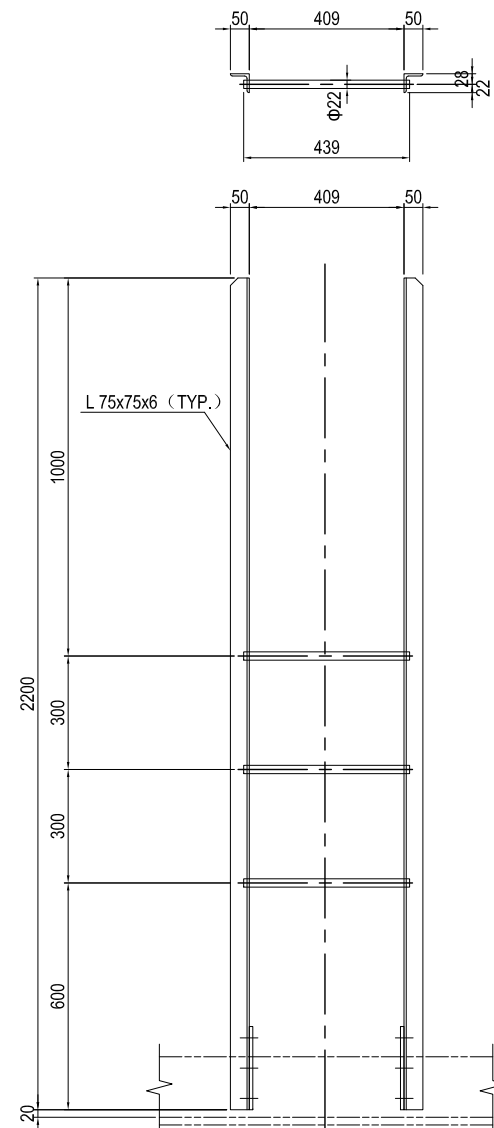
SUPPORT PL DETAIL S=1:10



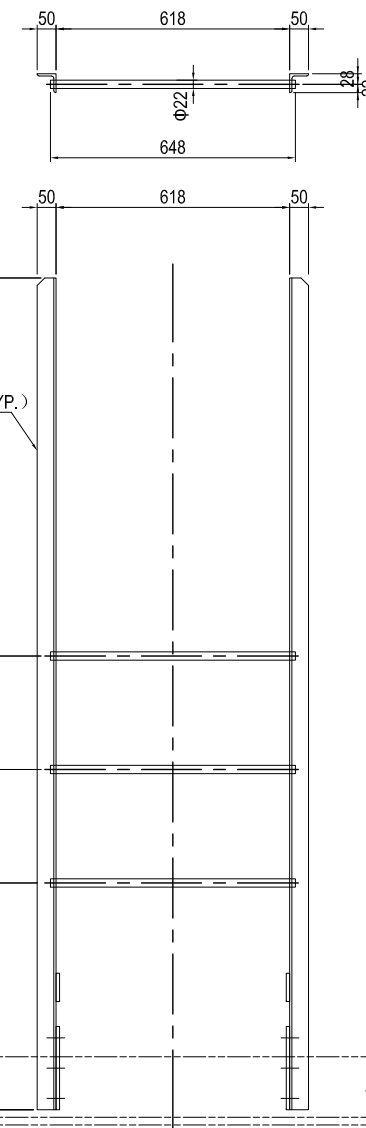
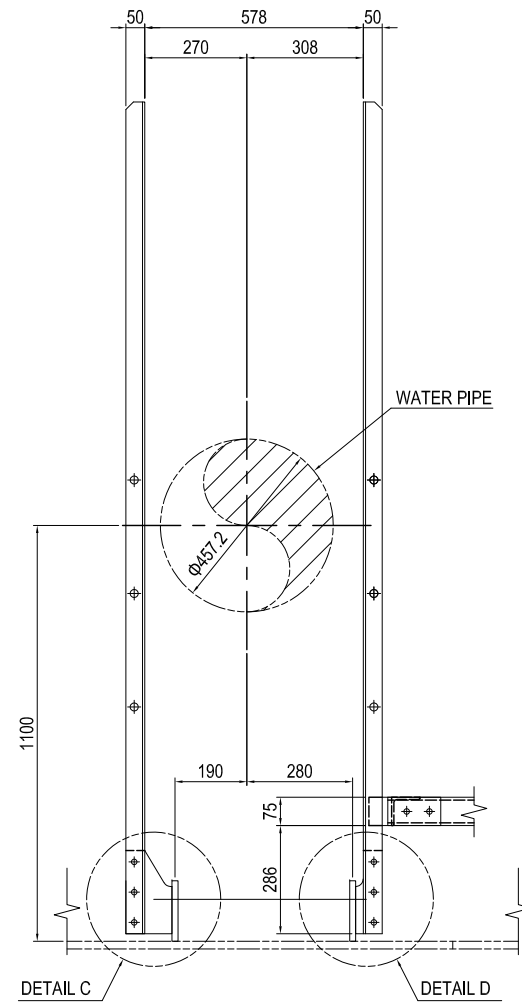
<small>PROJECT NAME</small> DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	<small>FINANCED BY</small> JAPAN INTERNATIONAL COOPERATION AGENCY	<small>COUNTERPART</small> REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	<small>JICA STUDY TEAM</small> NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	<small>NAME</small> PREPARED BY T.TOMODA CHECKED BY T. HAYAKAWA APPROVED BY Y. SANO	<small>SIGNATURE</small> 	<small>DATE</small> 27. Nov.2017 28. Nov.2017 29. Nov.2017	<small>DRAWING TITLE</small> INSPECTION ROAD (5)	<small>PACKAGE</small> 1 DWG No. P1-CS-3038
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INSPECTION ROAD (6) S=1:20

LADDER DETAIL (Qty = 80)

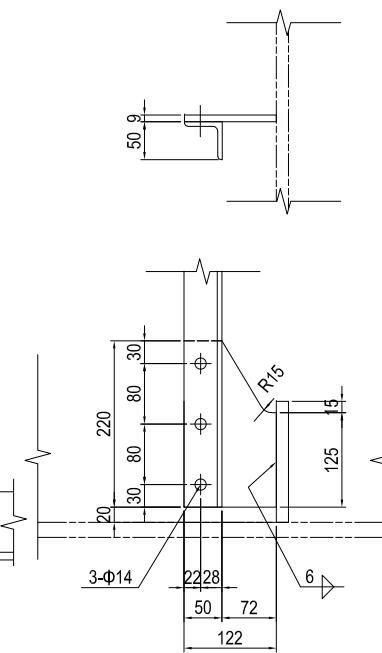


- 2 - L 50x50x6x2200(SS400)
- 3 - RB $\Phi 22 \times 439$ (SS400)
- 2 - PL 122 x 9x 220(SM400A)
- 6 - B.N M12x 40(1-W,1-UNut)(SS400)

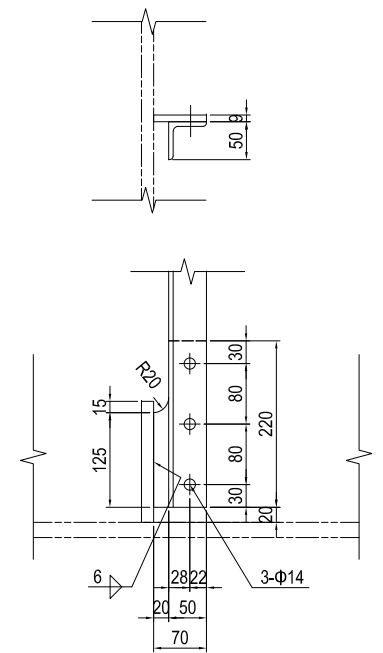


- 2 - L 50x50x6x2200(SS400)
- 3 - RB $\Phi 22 \times 648$ (SS400)
- 2 - PL 70x 9x 220(SM400A)
- 6 - B.N M12x 40(1-W,1-UNut)(SS400)

DETAIL C S=1:10



DETAIL D S=1:10



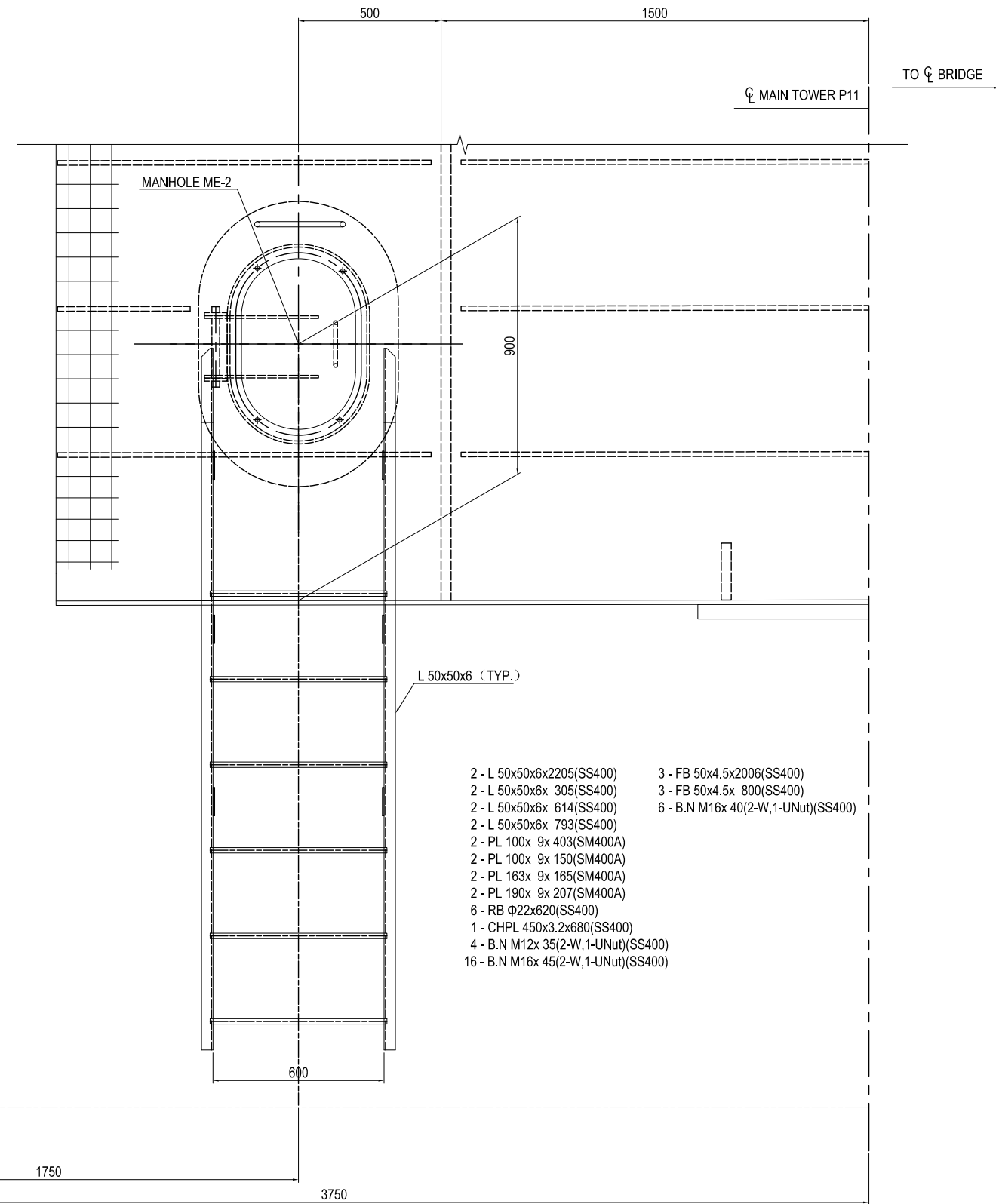
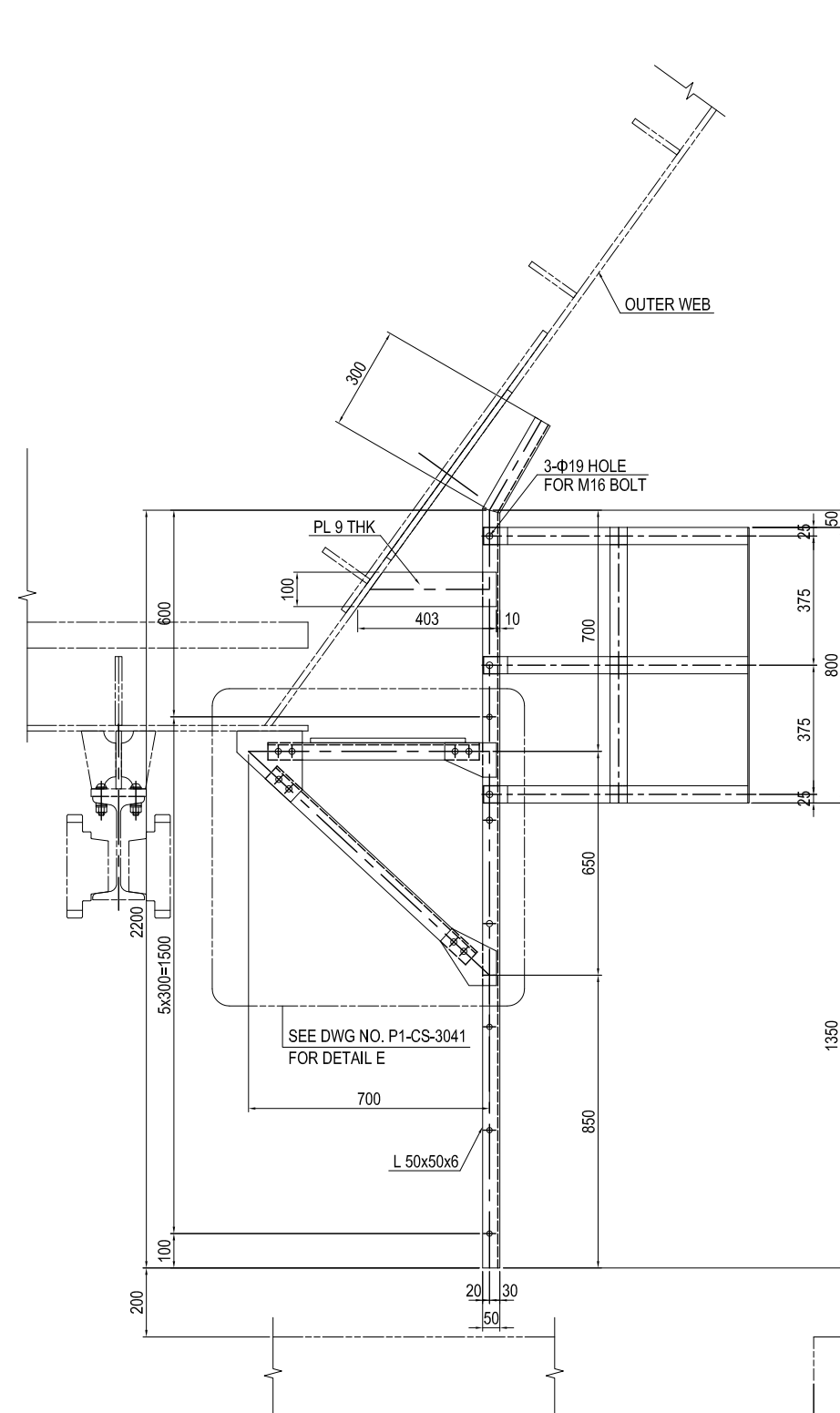
NOTES:

- 1 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 2 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

<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>T.TOMODA</td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>29. Nov.2017</td> </tr> </table>	NAME	SIGNATURE	DATE	PREPARED BY	T.TOMODA	27. Nov.2017	CHECKED BY	T. HAYAKAWA	28. Nov.2017	APPROVED BY	Y. SANO	29. Nov.2017	<small>DRAWING TITLE</small> INSPECTION ROAD (6)	<small>PACKAGE</small> 1 DWG No. P1-CS-3039
NAME	SIGNATURE	DATE																
PREPARED BY	T.TOMODA	27. Nov.2017																
CHECKED BY	T. HAYAKAWA	28. Nov.2017																
APPROVED BY	Y. SANO	29. Nov.2017																

INSPECTION ROAD (7) S=1:20

STAGE & LADDER DETAIL (Qty = 2)



- 2 - L 50x50x6x2205(SS400)
- 2 - L 50x50x6x 305(SS400)
- 2 - L 50x50x6x 614(SS400)
- 2 - L 50x50x6x 793(SS400)
- 2 - PL 100x 9x 403(SM400A)
- 2 - PL 100x 9x 150(SM400A)
- 2 - PL 163x 9x 165(SM400A)
- 2 - PL 190x 9x 207(SM400A)
- 6 - RB Φ22x620(SS400)
- 1 - CHPL 450x3.2x680(SS400)
- 4 - B.N M12x 35(2-W,1-UNut)(SS400)
- 16 - B.N M16x 45(2-W,1-UNut)(SS400)
- 3 - FB 50x4.5x2006(SS400)
- 3 - FB 50x4.5x 800(SS400)
- 6 - B.N M16x 40(2-W,1-UNut)(SS400)

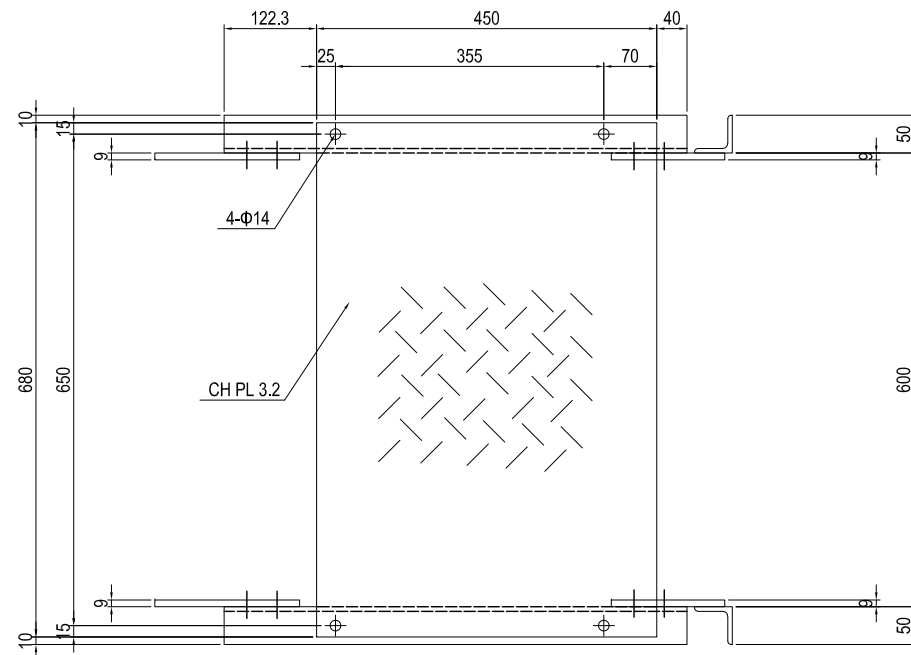
NOTES:

- 1 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 2 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

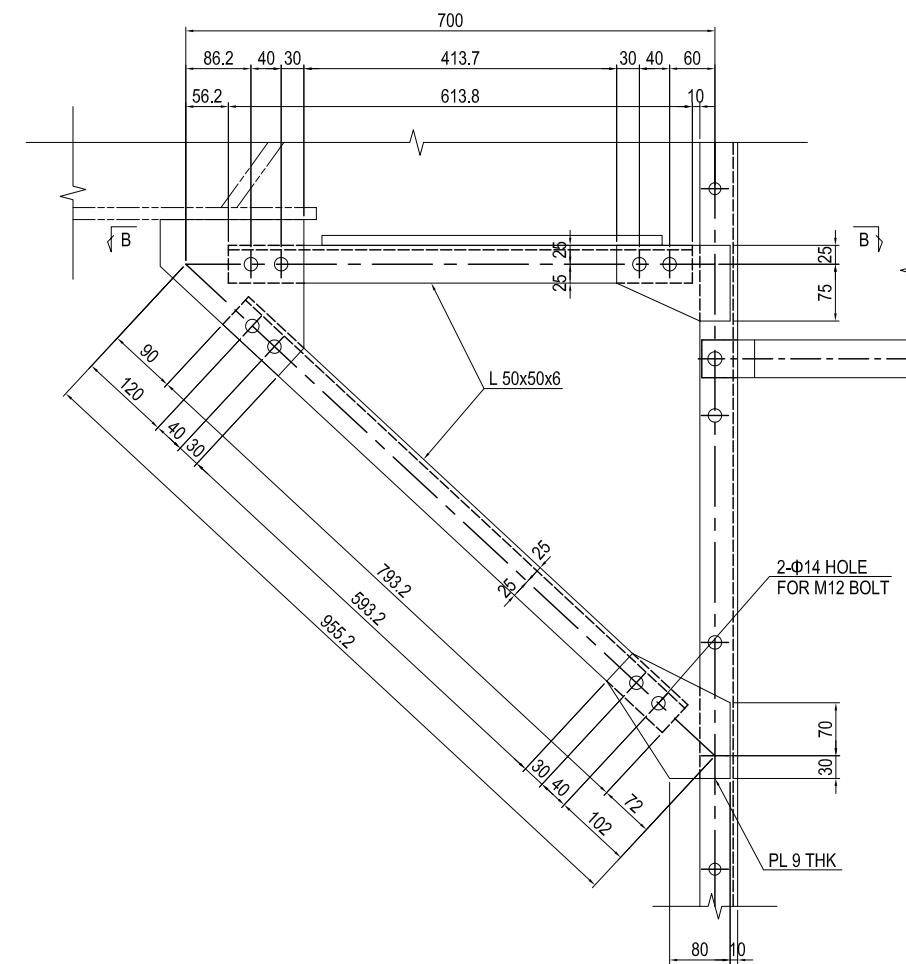
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE			
				PREPARED BY	T.TOMODA				27. Nov.2017	INSPECTION ROAD (7)	1
				CHECKED BY	T. HAYAKAWA				28. Nov.2017		DWG No.
				APPROVED BY	Y. SANO				29. Nov.2017		P1-CS-3040

INSPECTION ROAD (8) S=1:10

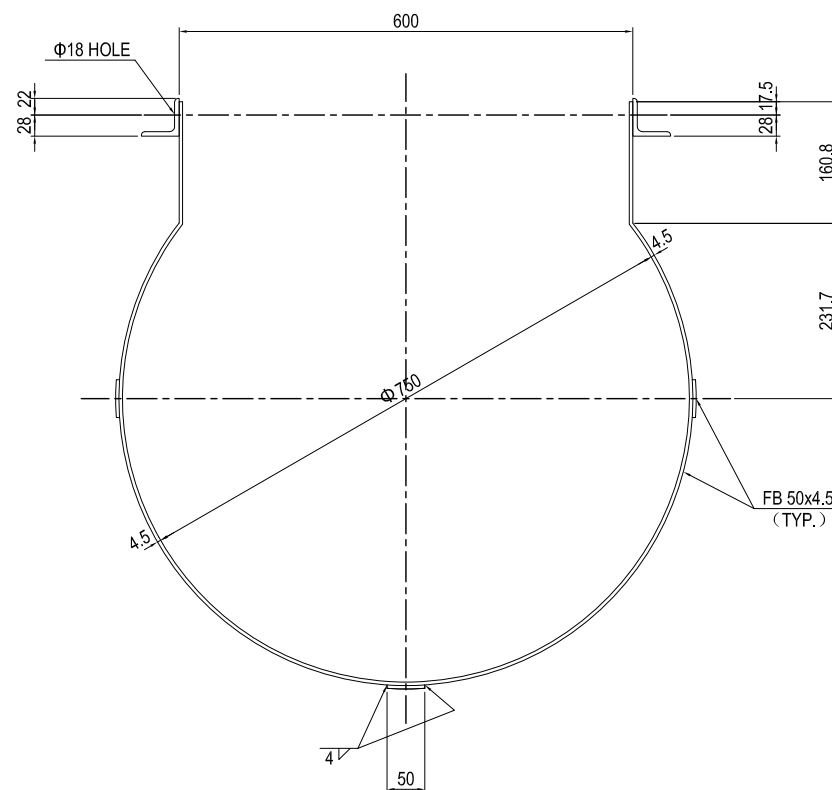
SECTION B-B



DETAIL E



FALL PREVENTION CAGE DETAIL



NOTES:

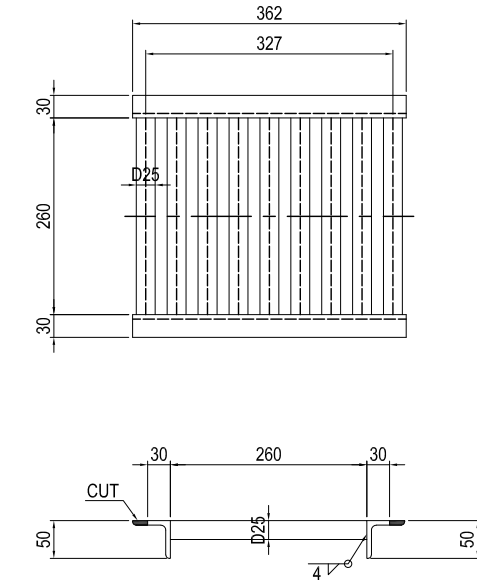
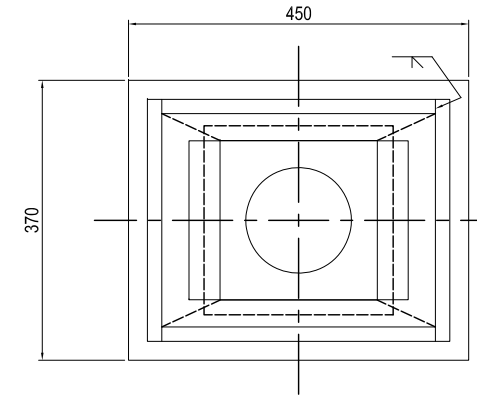
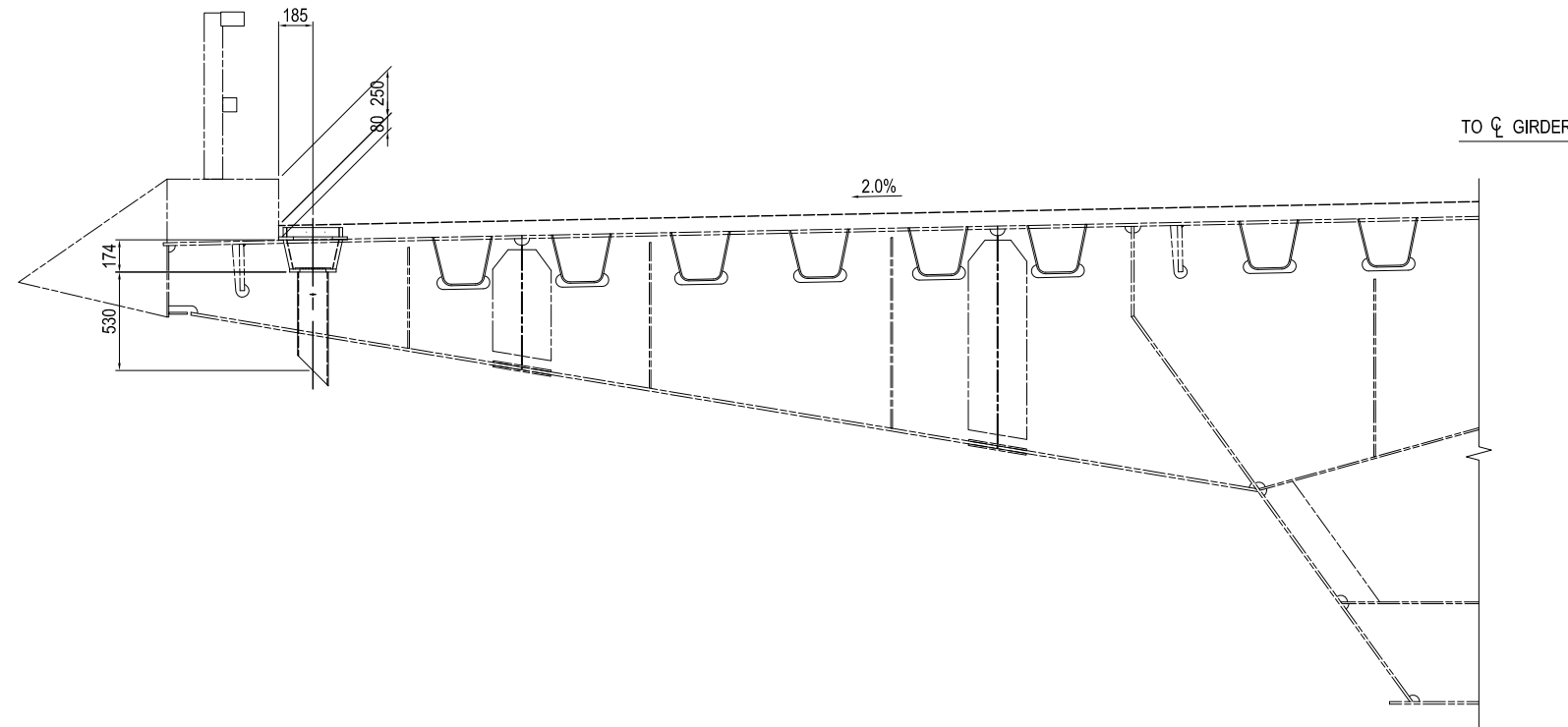
- 1 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 2 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

<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;"> <thead> <tr> <th style="text-align: left;">NAME</th> <th style="text-align: left;">SIGNATURE</th> <th style="text-align: left;">DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table>	NAME	SIGNATURE	DATE	PREPARED BY T.TOMODA		27. Nov.2017	CHECKED BY T. HAYAKAWA		28. Nov.2017	APPROVED BY Y. SANO		29. Nov.2017	<small>DRAWING TITLE</small> INSPECTION ROAD (8)	<small>PACKAGE</small> 1 DWG No. P1-CS-3041
NAME	SIGNATURE	DATE																
PREPARED BY T.TOMODA		27. Nov.2017																
CHECKED BY T. HAYAKAWA		28. Nov.2017																
APPROVED BY Y. SANO		29. Nov.2017																

DRAINAGE (1)

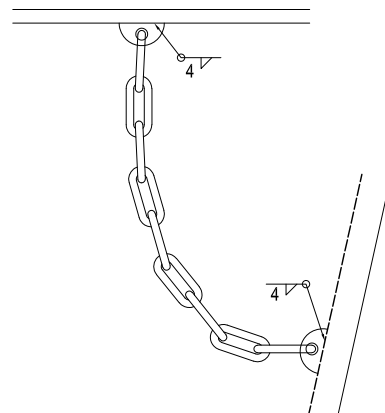
S=1:40

DETAIL S=1:10
(Q'ty = 140)

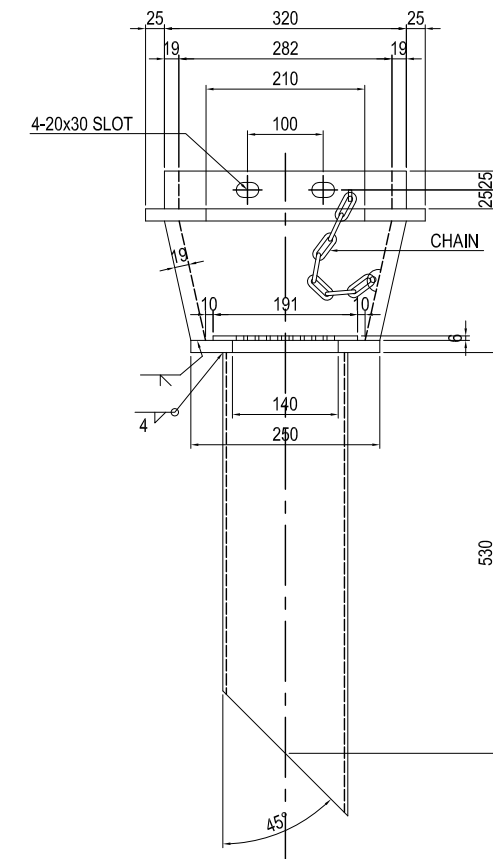
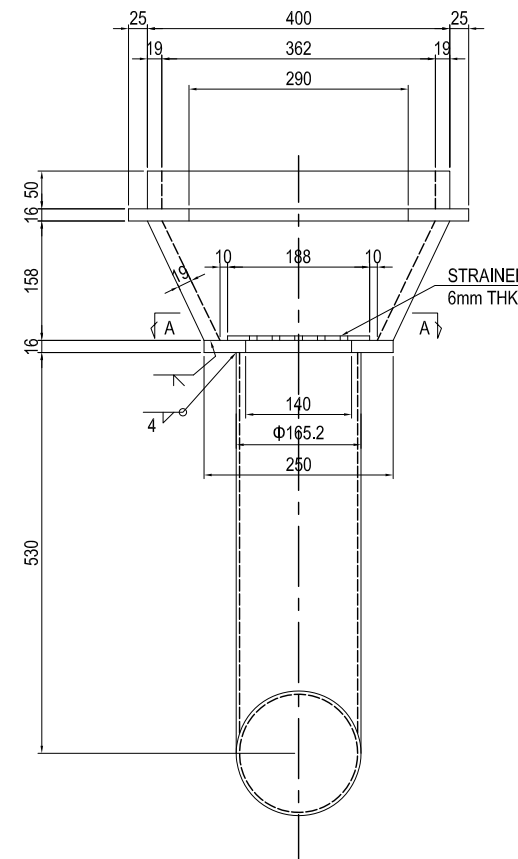
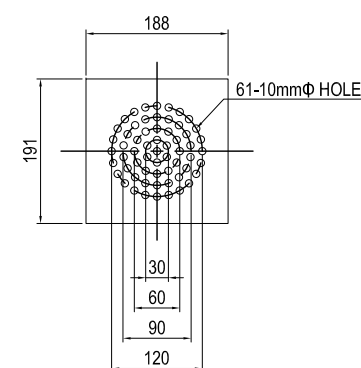


- 2-PL 50x19x362(SM400A)
- 2-PL 50x19x320(SM400A)
- 1-PL 370x16x450(SM400A)
- 2-PL 184x19x320(SM400A)
- 2-PL 166x19x358(SM400A)
- 1-PL 250x16x250(SM400A)
- 1-PL 188x6x191(SM400A)
- 1-PIPE Φ 165.2x4.5x530(STK400)
- 1-Chain Φ 5x250(SUS304)
- 2-L 50x50x6x362(SS400)
- 9-RB Φ 25x260(SD295)

DETAIL OF CHAIN



SECTION A-A



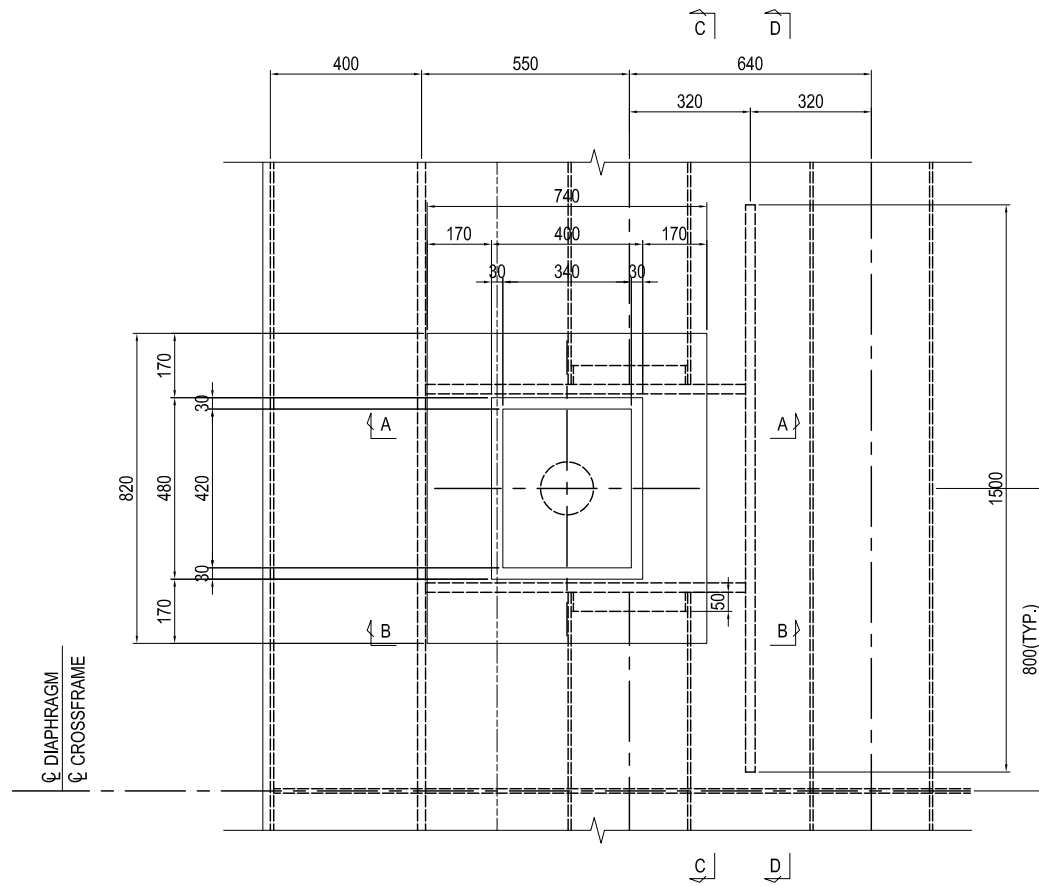
NOTES:

1 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBER WITH A THICKNESS OF LESS THAN 3.2mm)

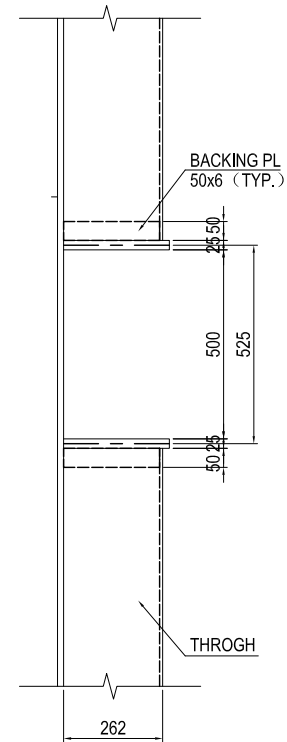
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE DRAINAGE (1)	PACKAGE 1 DWG No. P1-CS-3042	
				PREPARED BY	T.TOMODA				27. Nov.2017
				CHECKED BY	T. HAYAKAWA				28. Nov.2017
				APPROVED BY	Y. SANO				29. Nov.2017

DRAINAGE (2) S=1:20

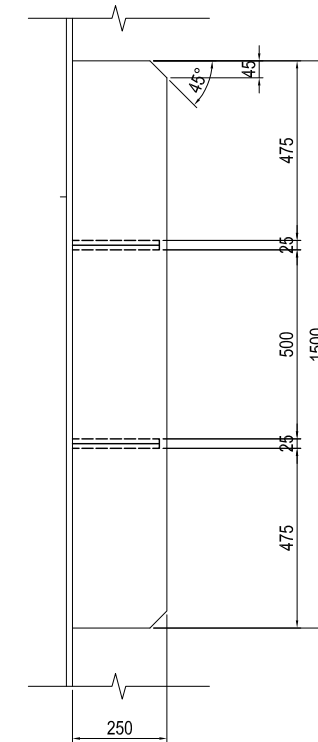
DRAINAGE COVER PL DETAIL



SECTION C-C

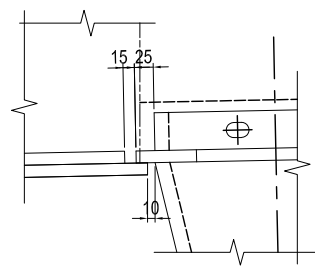


SECTION D-D

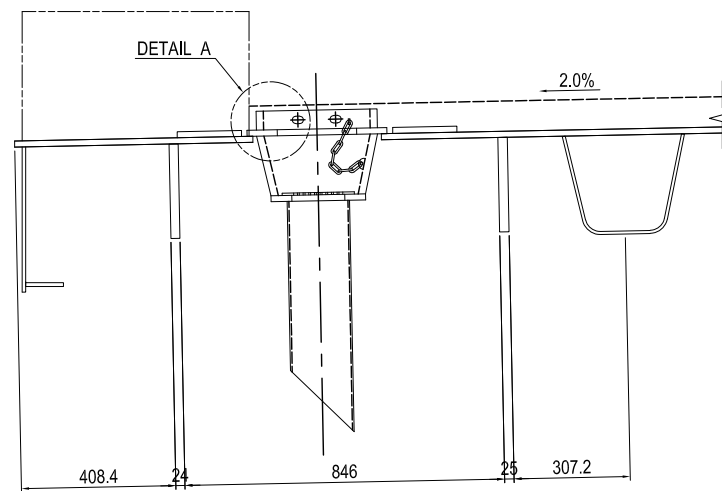


- 1-PL 820x16x740(SM400A)
- 2-RIB 280x25x848(SM400A)
- 1-RIB 250x25x1500(SM400A)
- 2-FB 50x6x684(SS400)

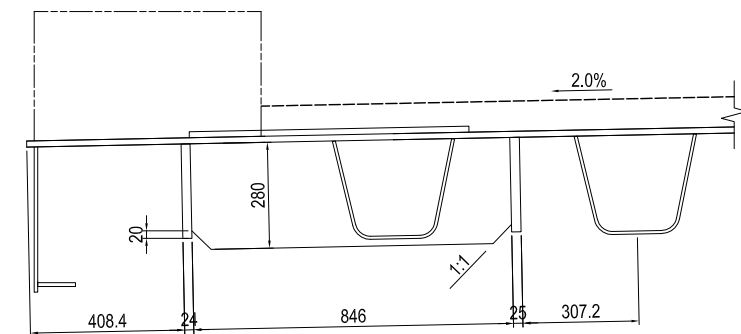
DETAIL A S=1:10



SECTION A-A



SECTION B-B



NOTES:

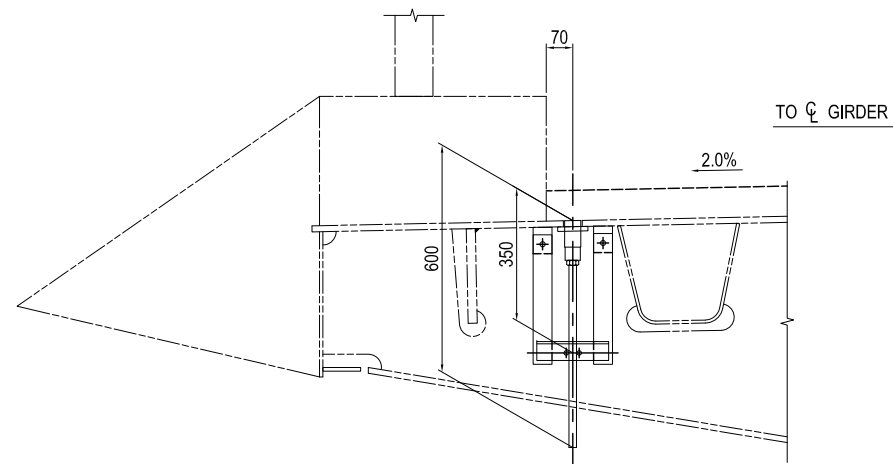
1 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBER WITH A THICKNESS OF LESS THAN 3.2mm)

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 DRAINAGE (2)	PACKAGE 1 DWG No. P1-CS-3043	
				PREPARED BY	T.TOMODA				27. Nov.2017
				CHECKED BY	T. HAYAKAWA				28. Nov.2017
				APPROVED BY	Y. SANO				29. Nov.2017

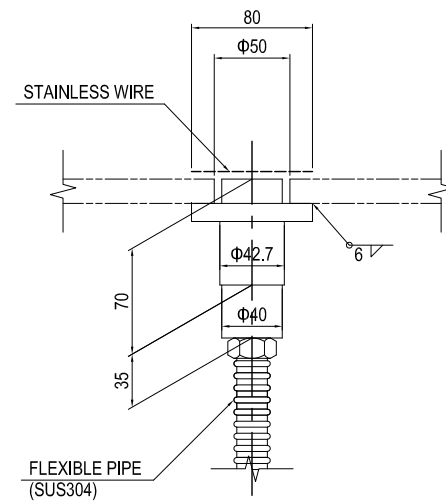
DRAINAGE (3)

S=1:20

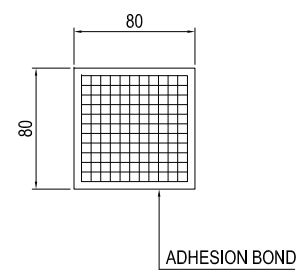
DETAIL OF FLOOR DRAINAGE



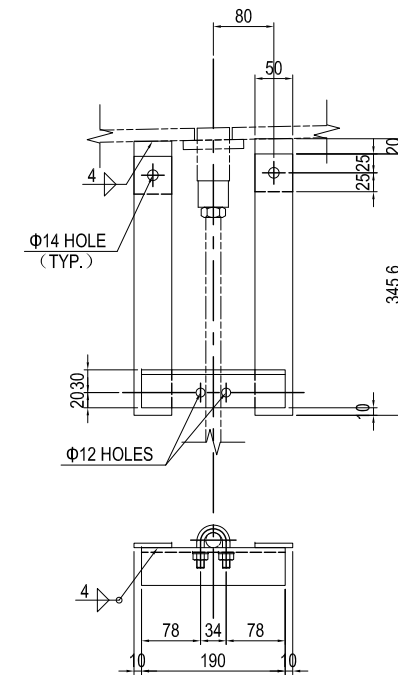
FLEXIBLE PIPE DETAIL S=1:5



STAINLESS WIRE DETAIL S=1:5



STEADY PIECE DETAIL S=1:10



- 2-PL 50x6x70(SM400A)
- 2-PL 50x6x346(SS400)
- 1-L 50x50x6x190(SS400)
- 2-BN M12x35(1-W,1-UNut)(SS400)
- 1-U.BOLT M10(15C)(2-W)(SS400)
- 2-WASHER M10(SS400)

NOTES:

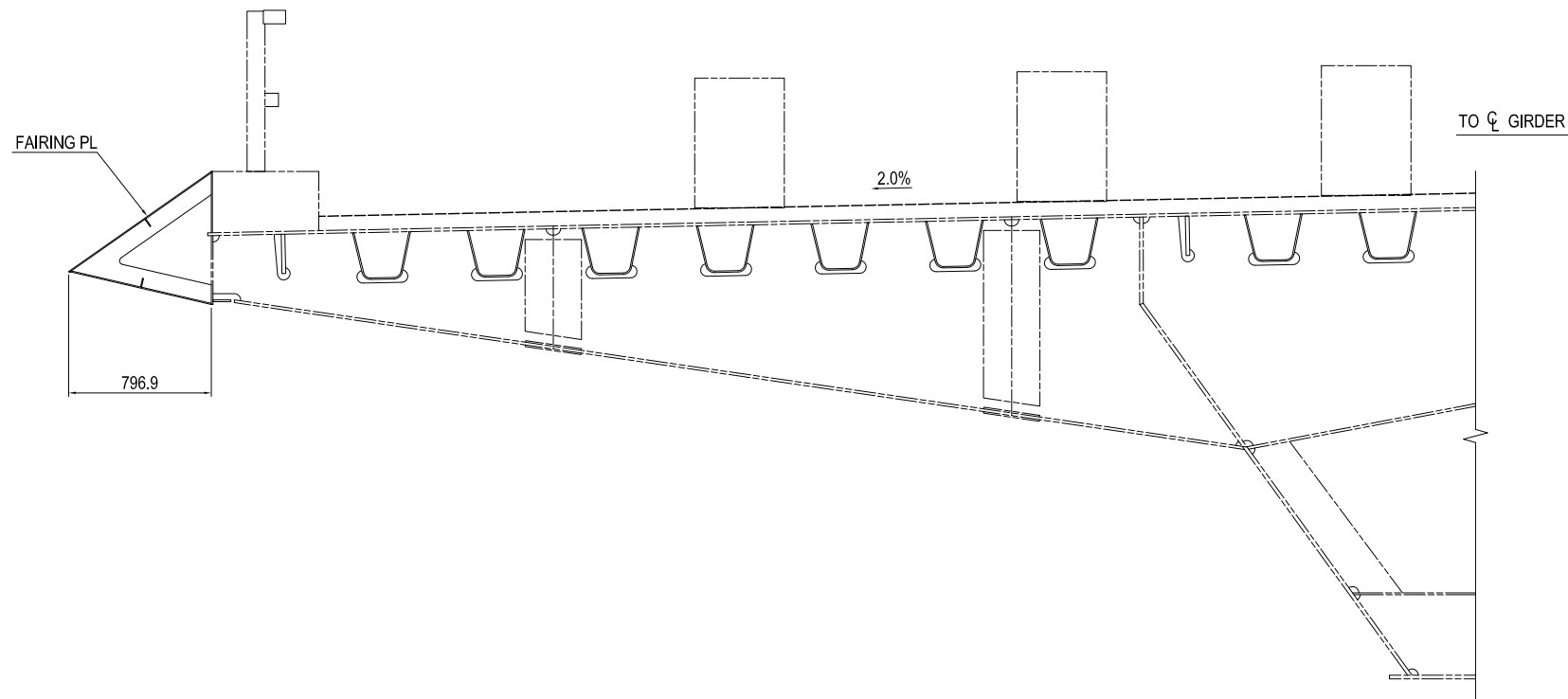
1 - HOT-DIP GALVANIZED COATING OVER 550g/m² , 350g/m² (FOR BOLT, WASHER & NUT AND MEMBER WITH A THICKNESS OF LESS THAN 3.2mm)

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	T.TOMODA				27. Nov.2017
				CHECKED BY	T. HAYAKAWA				28. Nov.2017
				APPROVED BY	Y. SANO				29. Nov.2017
							DRAINAGE (3)	1	
								DWG No.	
								P1-CS-3044	

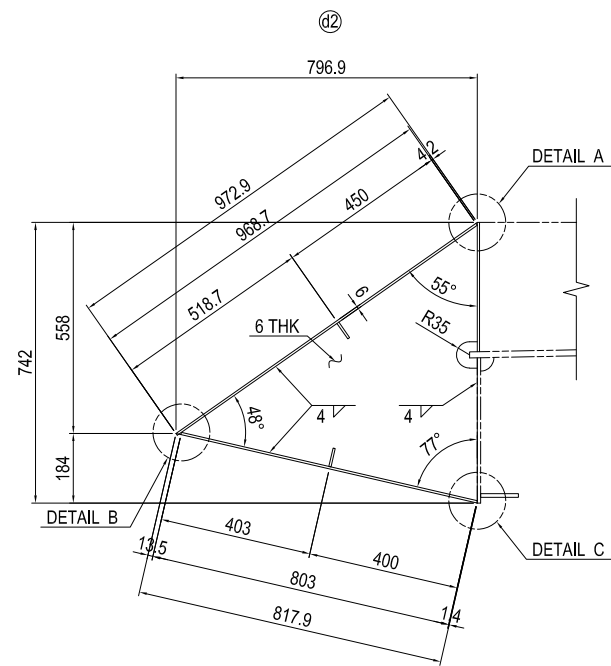
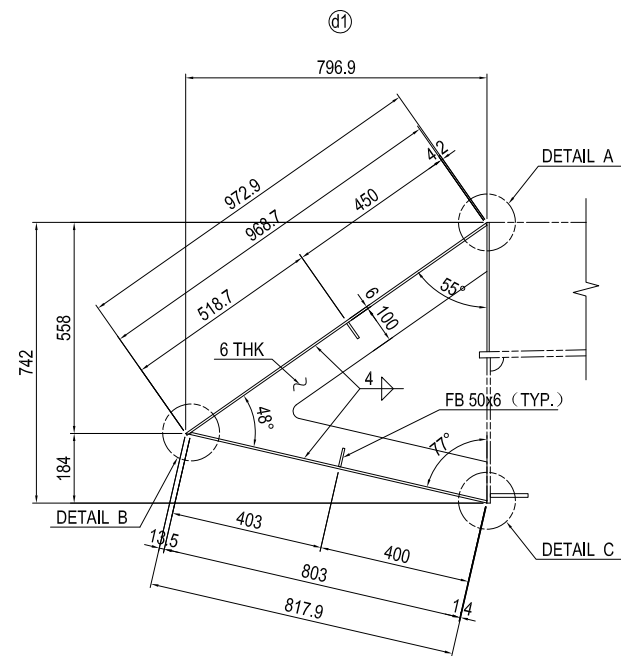
FAIRING (1)

S=1:40

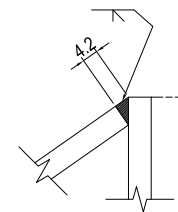
TYPICAL SECTION



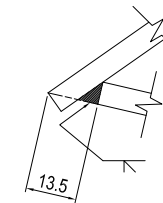
DIAPHRAGM DETAIL S=1:20



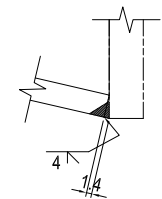
DETAIL A S=1:2



DETAIL B S=1:2



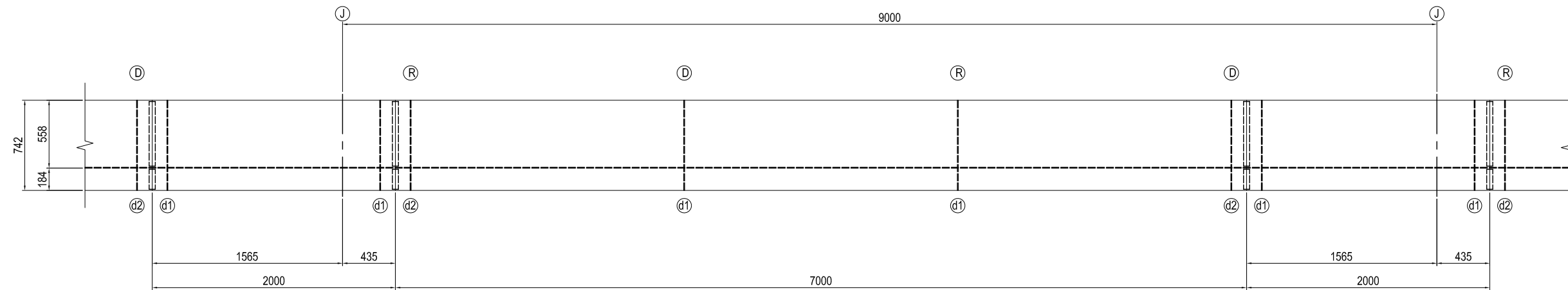
DETAIL C S=1:2



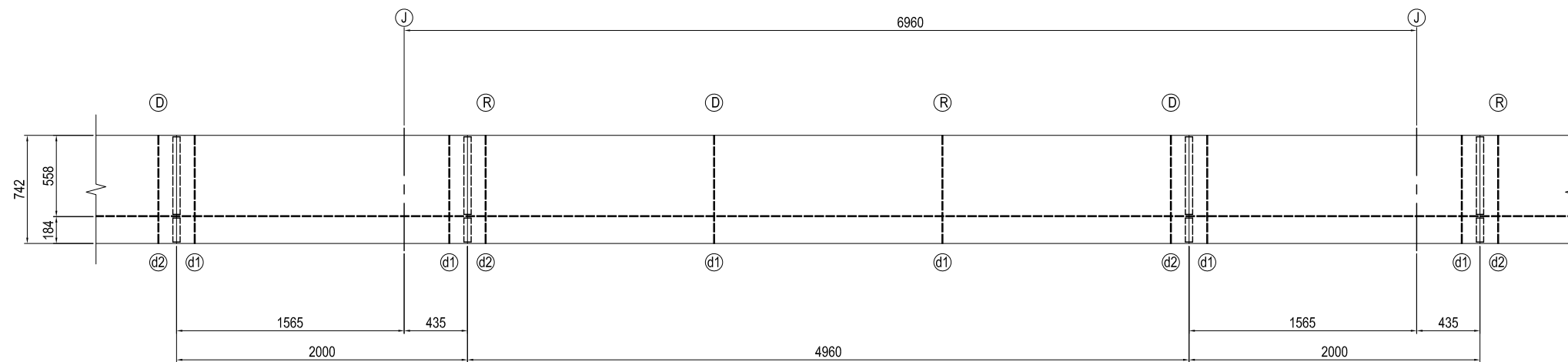
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE			
				PREPARED BY	T.TOMODA				27. Nov.2017	FAIRING (1)	1
				CHECKED BY	T. HAYAKAWA				28. Nov.2017		DWG No.
				APPROVED BY	Y. SANO				29. Nov.2017		P1-CS-3045

FAIRING (2) S=1:40

TYPICAL ARRANGEMENT



SEGMENT NO.13 & 15

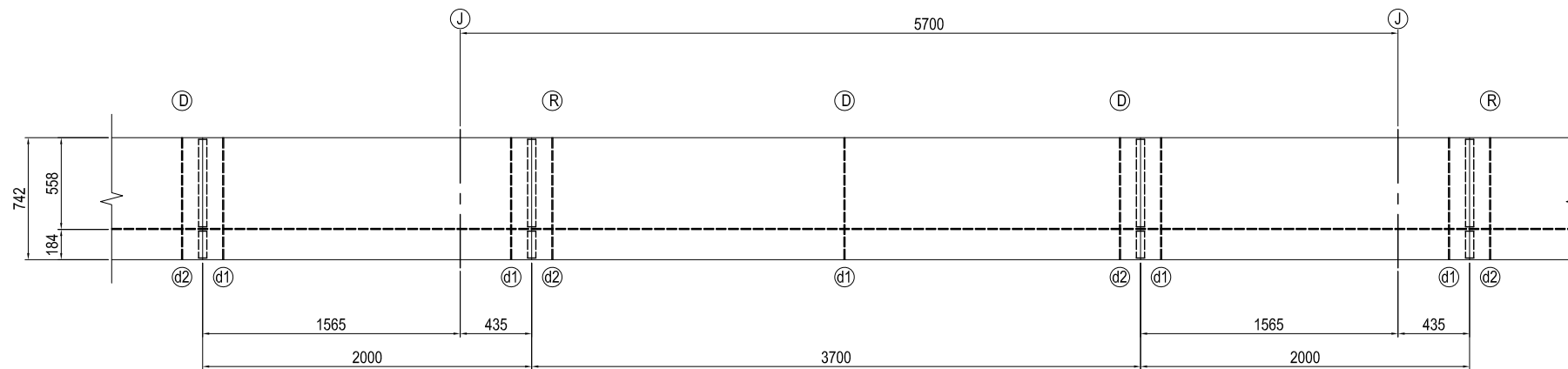


- 1-PL 969x6x7000(SM400A)
- 1-PL 803x6x7000(SM400A)
- 2-PL 50x6x7000(SM400A)
- 2-PL 955x6x597(SM400A)
- 2-PL 955x6x597(SM400A)
- 2-FB 50x6x953(SS400)
- 2-FB 50x6x798(SS400)

- 1-PL 969x6x2000(SM400A)
- 1-PL 803x6x2000(SM400A)
- 2-PL 50x6x2000(SM400A)
- 2-PL 955x6x597(SM400A)

- 1-PL 969x6x4960(SM400A)
- 1-PL 803x6x4960(SM400A)
- 2-PL 50x6x4960(SM400A)
- 2-PL 955x6x597(SM400A)
- 2-PL 955x6x597(SM400A)
- 2-FB 50x6x953(SS400)
- 2-FB 50x6x798(SS400)

SEGMENT NO.14



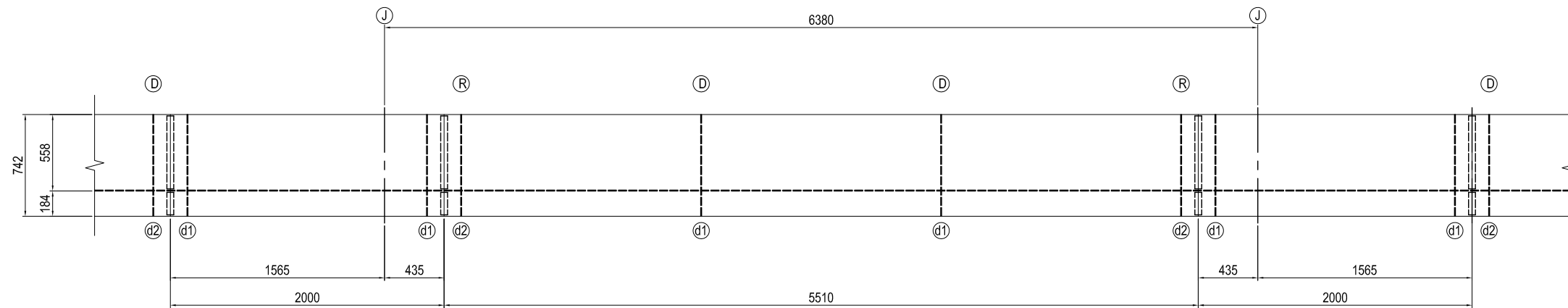
- 1-PL 969x6x3700(SM400A)
- 1-PL 803x6x3700(SM400A)
- 2-PL 50x6x3700(SM400A)
- 1-PL 955x6x597(SM400A)
- 2-PL 955x6x597(SM400A)
- 2-FB 50x6x953(SS400)
- 2-FB 50x6x798(SS400)

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	T.TOMODA				27. Nov.2017
				CHECKED BY	T. HAYAKAWA				28. Nov.2017
				APPROVED BY	Y. SANO				29. Nov.2017
							FAIRING (2)	1	
								DWG No.	
								P1-CS-3046	

FAIRING (3)

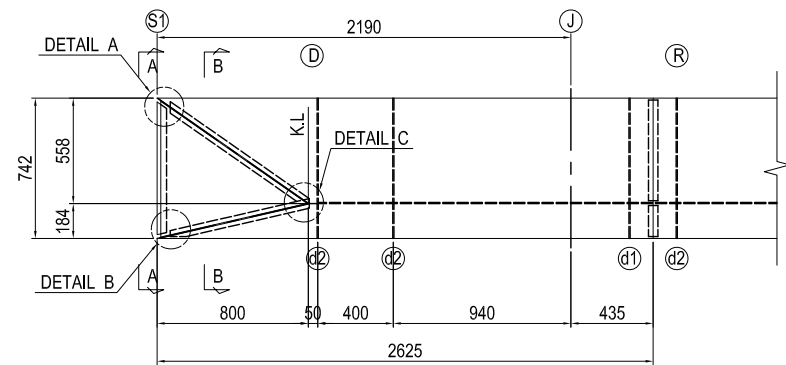
S=1:40

SEGMENT NO.27

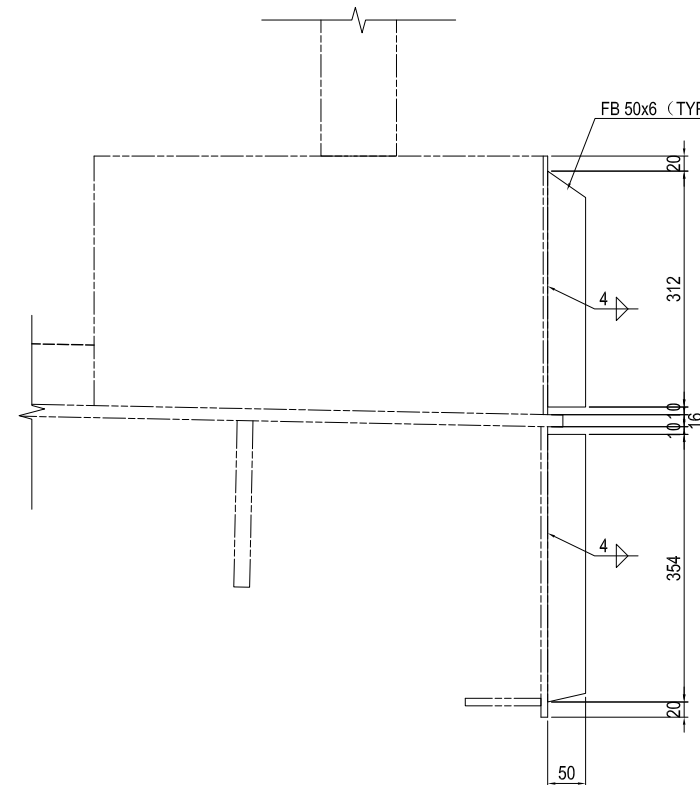


- 1-PL 969x6x5510(SM400A)
- 1-PL 803x6x5510(SM400A)
- 2-PL 50x6x5510(SM400A)
- 2-PL 955x6x597(SM400A)
- 2-PL 955x6x597(SM400A)
- 2-FB 50x6x953(SS400)
- 2-FB 50x6x798(SS400)

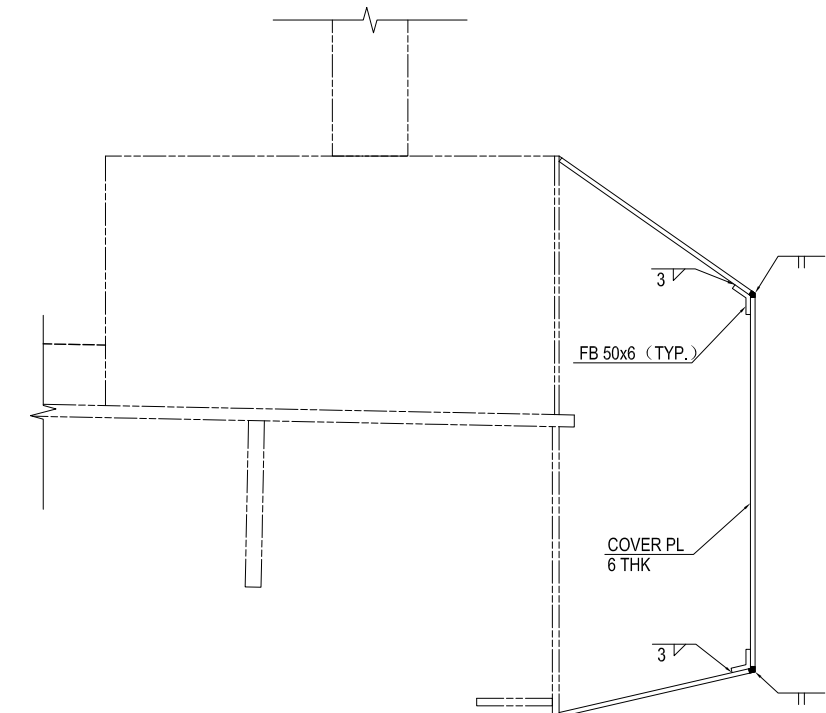
SEGMENT NO.1



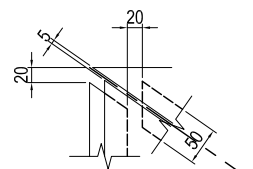
DEV. SECTION A-A S=1:10



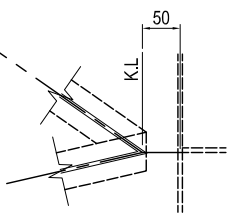
SECTION B-B S=1:10



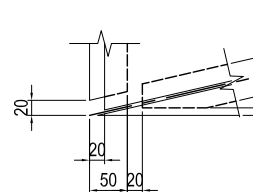
DETAIL A S=1:10



DETAIL C S=1:10



DETAIL B S=1:10



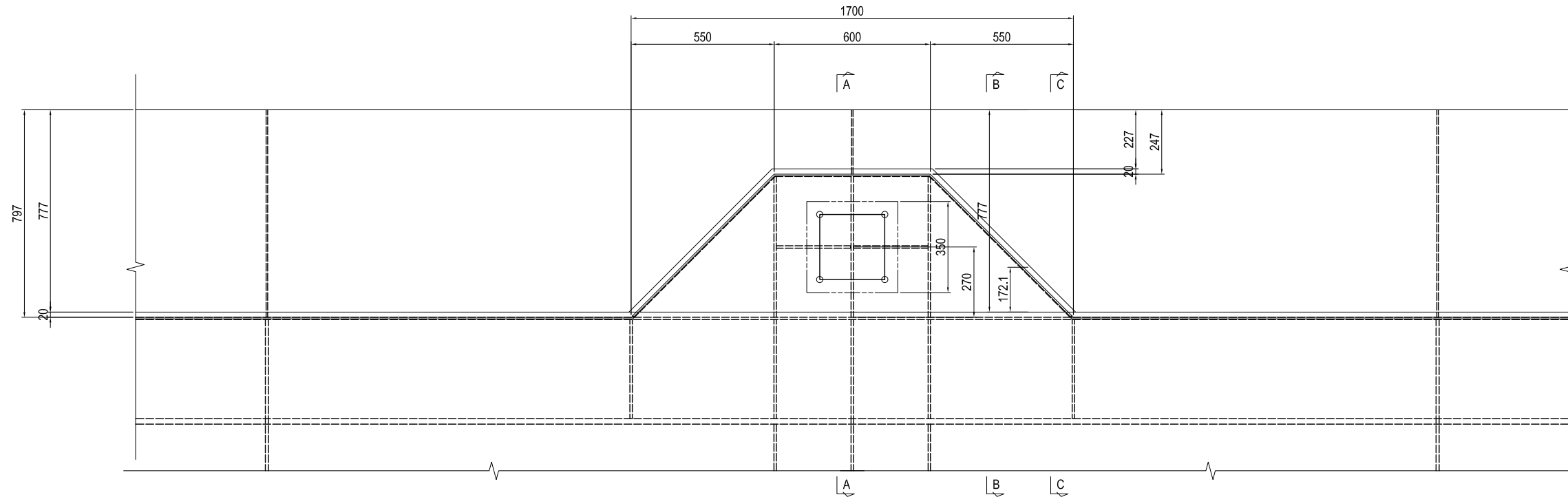
- 1-PL 969x6x2605(SM400A)
- 1-PL 803x6x2605(SM400A)
- 2-PL 50x6x1772(SM400A)
- 3-PL 955x6x597(SM400A)
- 1-FB 50x6x953(SS400)
- 1-FB 50x6x798(SS400)
- 1-PL 718x6x1092(SM400A)
- 1-FB 50x6x896(SS400)
- 1-FB 50x6x762(SS400)
- 1-FB 50x6x312(SS400)
- 1-FB 50x6x354(SS400)

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 FAIRING (3)	PACKAGE	
				PREPARED BY	T.TOMODA			27. Nov.2017	1
				CHECKED BY	T. HAYAKAWA			28. Nov.2017	DWG No.
				APPROVED BY	Y. SANO			29. Nov.2017	P1-CS-3047

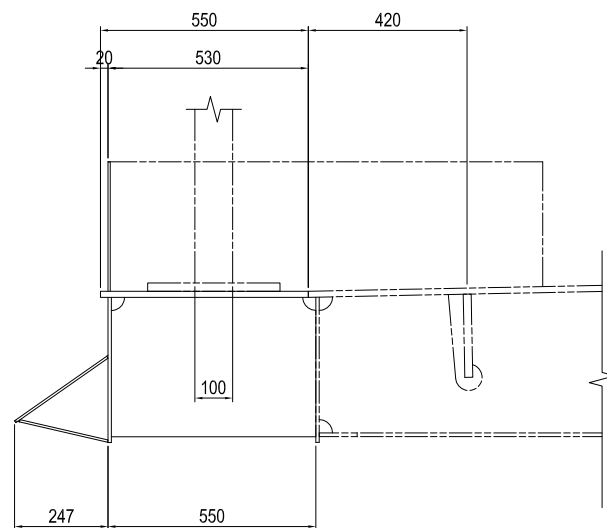
FAIRING (4)

S=1:20

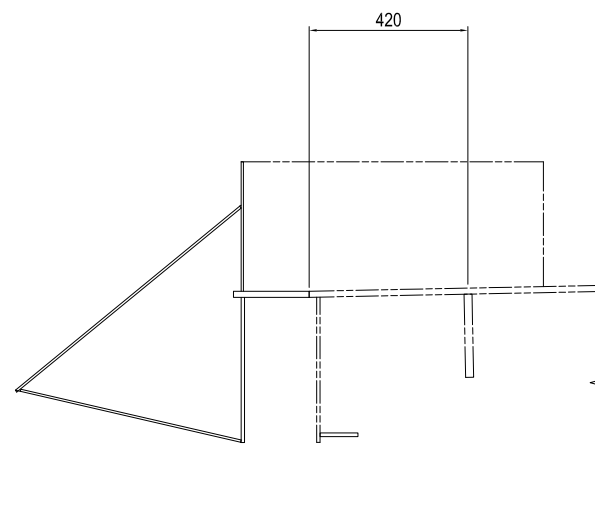
LIGHTING POST BASE DETAIL



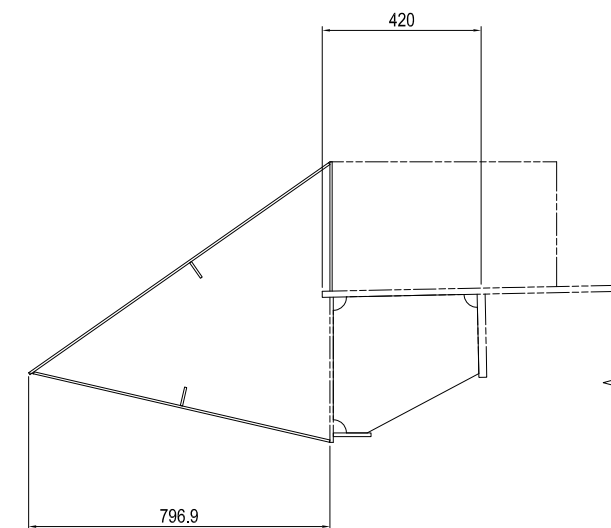
SECTION A-A



SECTION B-B



SECTION C-C



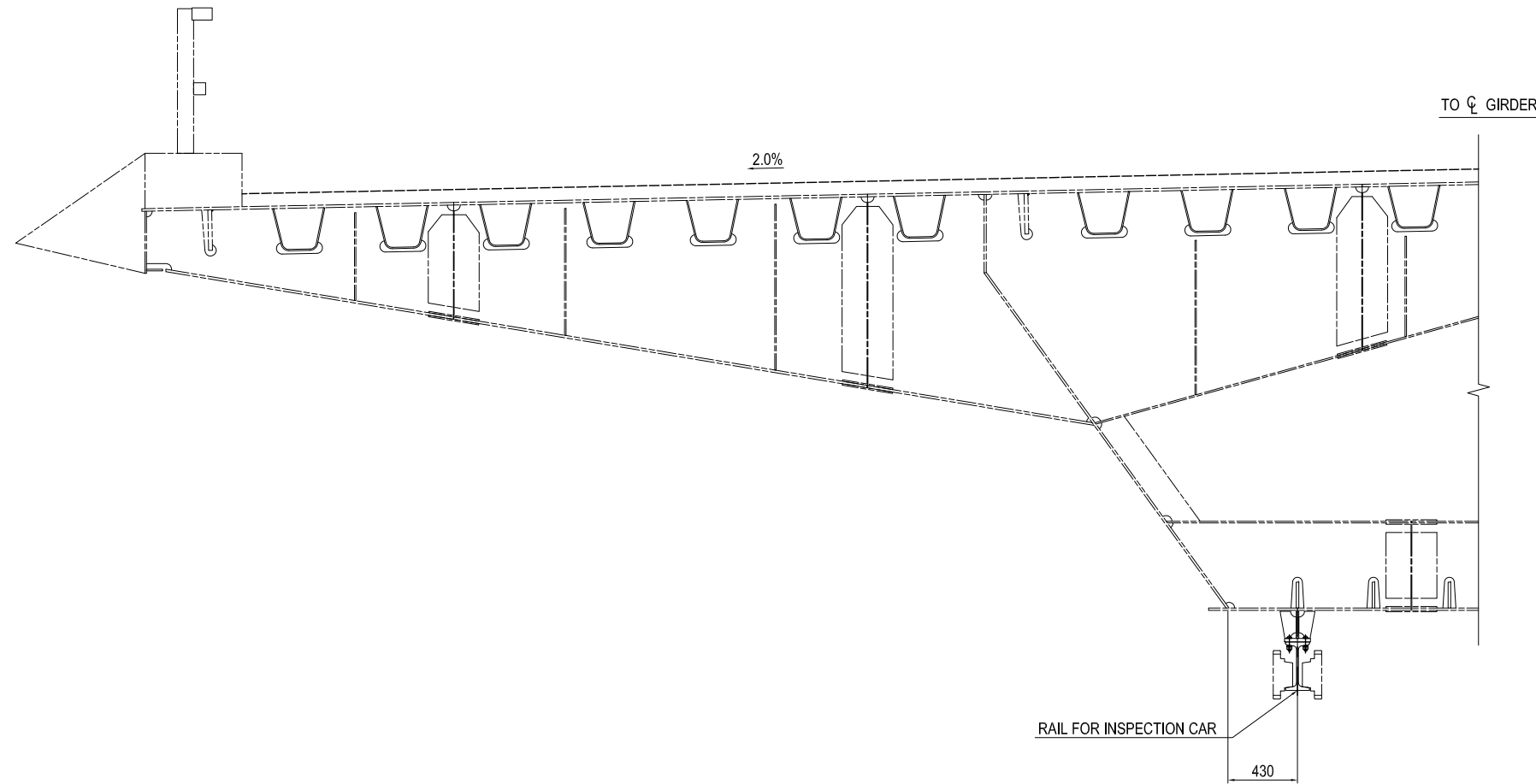
NOTES:

1 - SEE THE NAVIGATION SIGN & LIGHT DRAWING FOR DETAILS ON FAIRING AT THE WIDENING PART.

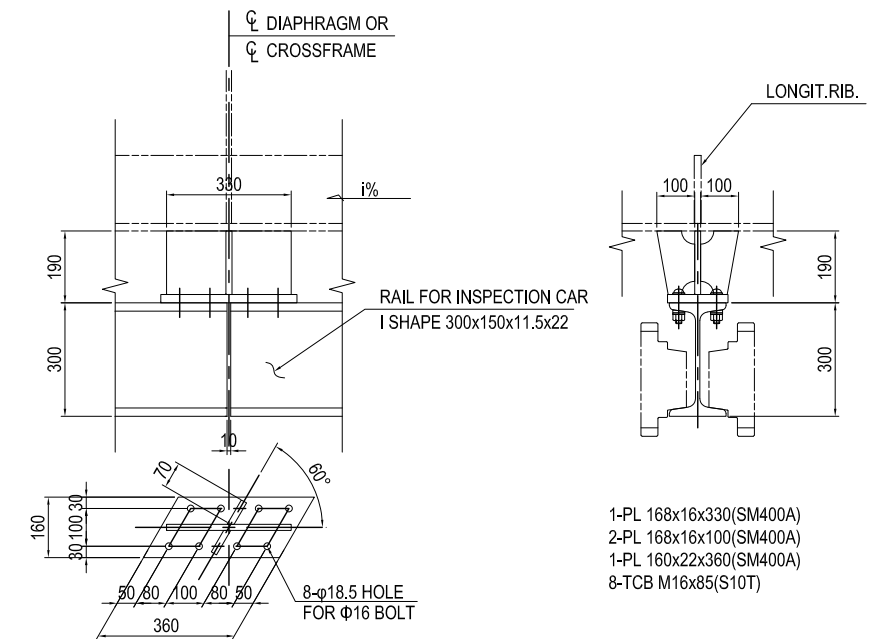
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE	
				PREPARED BY	T.TOMODA				27. Nov.2017
				CHECKED BY	T. HAYAKAWA				28. Nov.2017
				APPROVED BY	Y. SANO				29. Nov.2017
							FAIRING (4)	1	
								DWG No.	
								P1-CS-3048	

RAIL FOR INSPECTION VEHICLE (1)

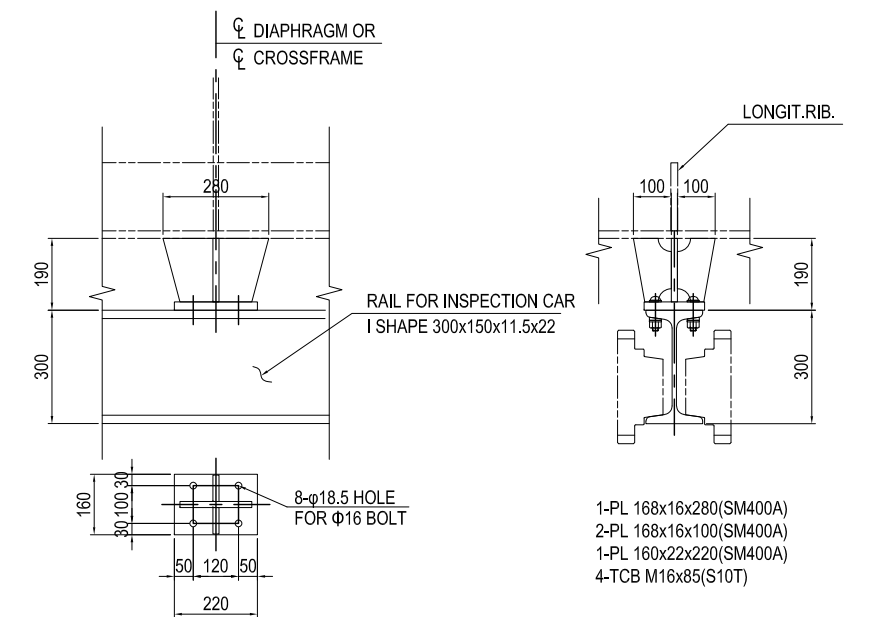
S=1:40



END OF RAIL S=1:20



INTERMEDIATE OF RAIL S=1:20

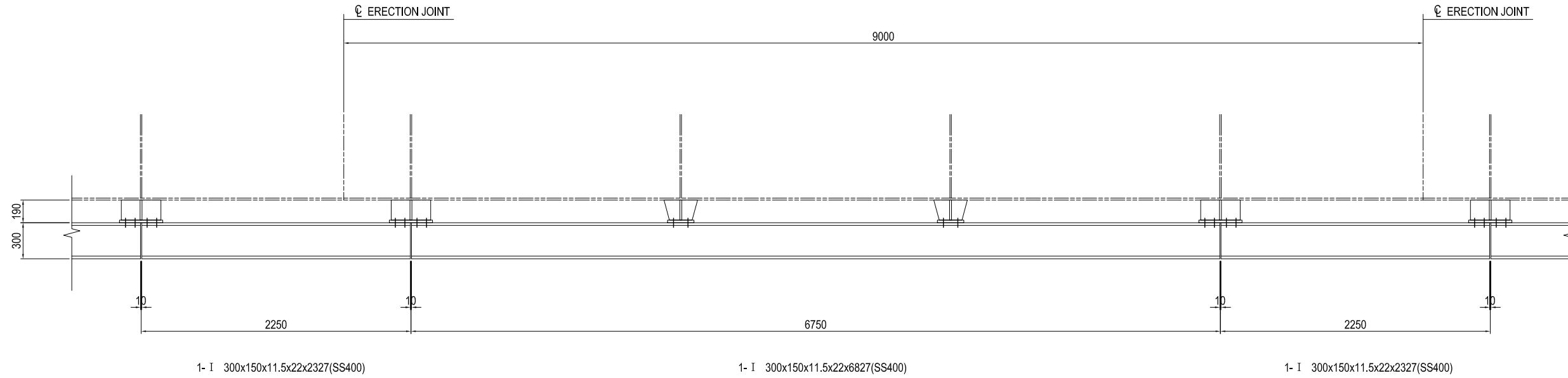


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	T. TOMODA	友田 隆雄	27. Nov.2017	RAIL FOR INSPECTION VEHICLE (1)	1
				T. HAYAKAWA	平川 知那	28. Nov.2017		DWG No.
				Y. SANO	佐野 祐一	29. Nov.2017		P1-CS-3049

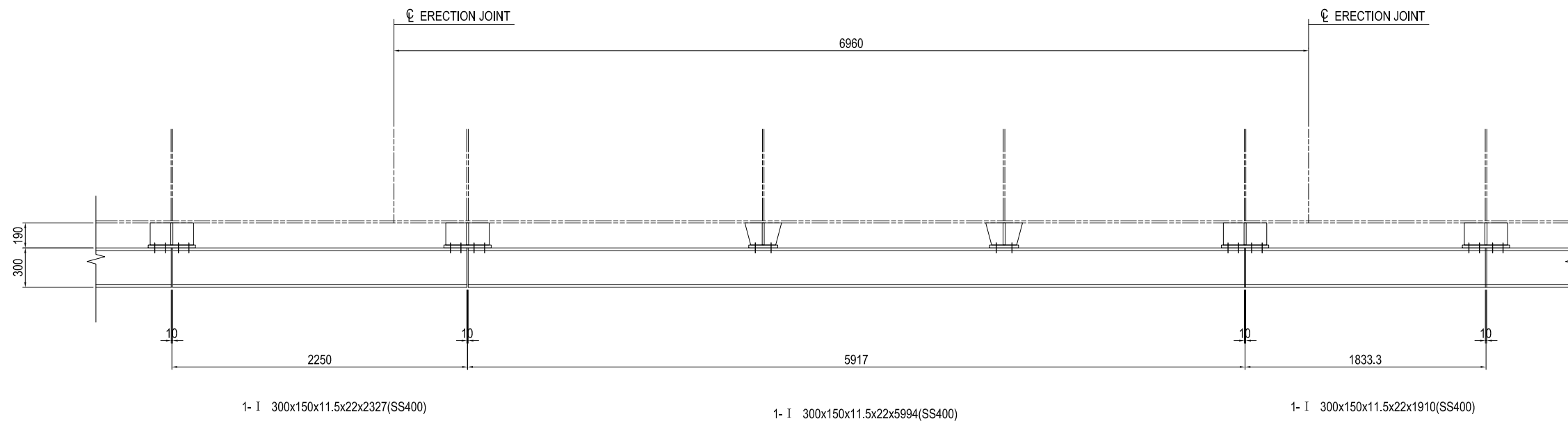
RAIL FOR INSPECTION VEHICLE (2)

S=1:40

TYPICAL SEGMENT



SEGMENT NO.13 & 15

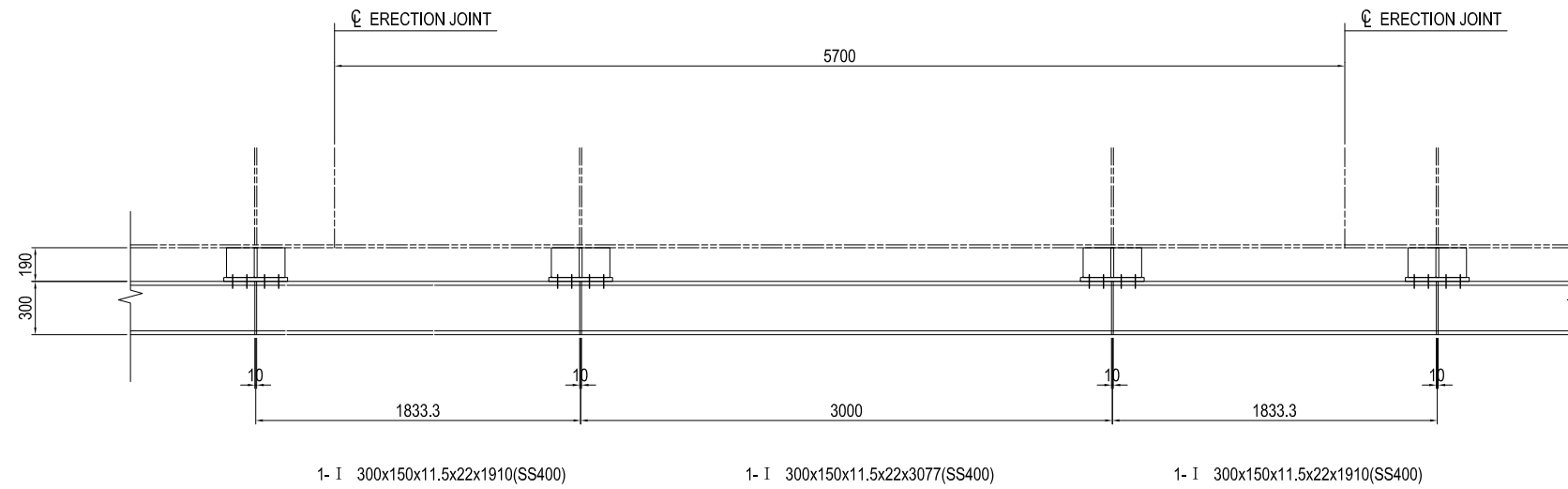


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY T. TOMODA	友田 隆雄	27. Nov. 2017	RAIL FOR INSPECTION VEHICLE (2)	1
				CHECKED BY T. HAYAKAWA	平川 知平	28. Nov. 2017		DWG No.
				APPROVED BY Y. SANO	佐野 祐一	29. Nov. 2017		P1-CS-3050

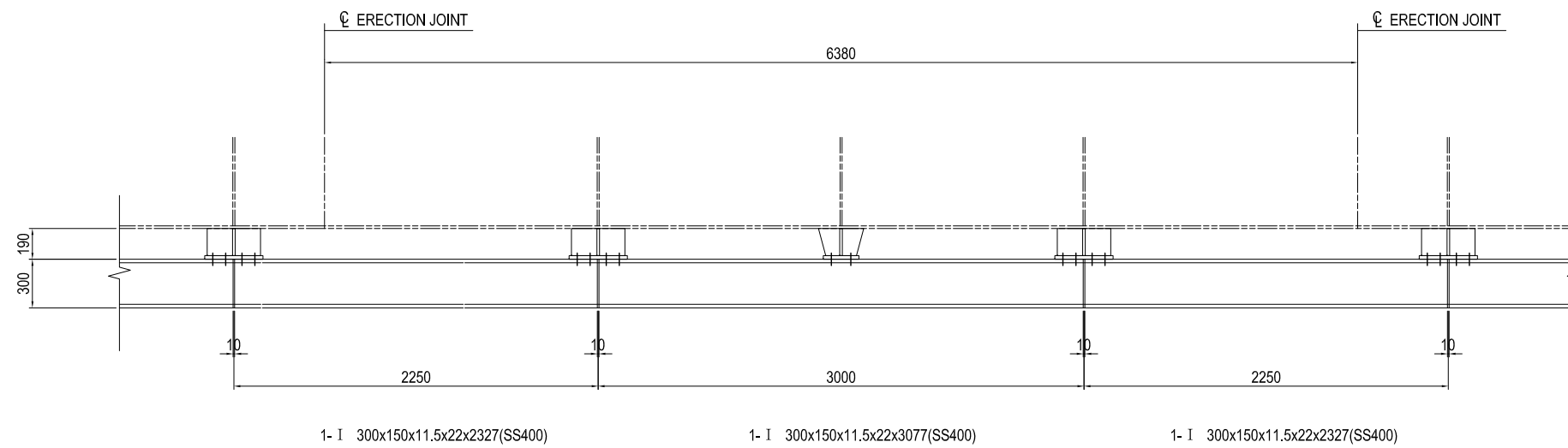
RAIL FOR INSPECTION VEHICLE (3)

S=1:40

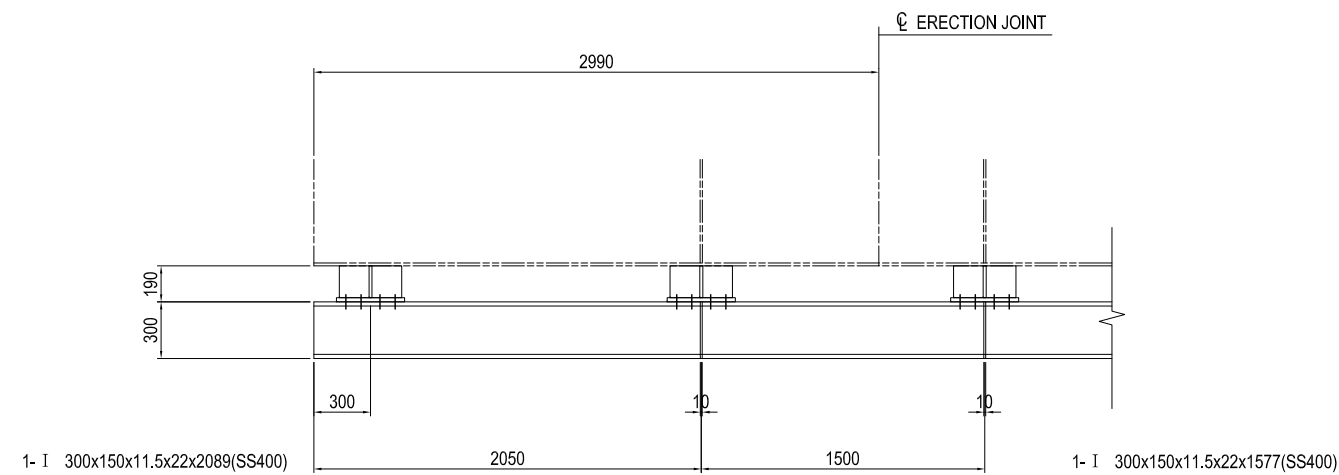
SEGMENT NO.14



SEGMENT NO.27



SEGMENT NO.1



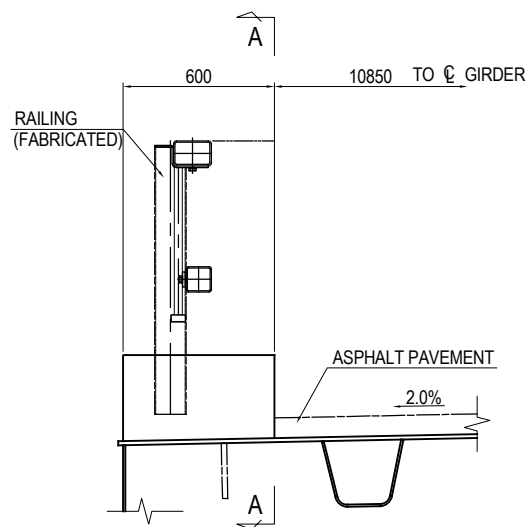
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE RAIL FOR INSPECTION VEHICLE (3)	PACKAGE	
				PREPARED BY	T.TOMODA			27. Nov.2017	1
				CHECKED BY	T. HAYAKAWA			28. Nov.2017	DWG No.
				APPROVED BY	Y. SANO			29. Nov.2017	P1-CS-3051

DETAIL OF RAILING (1)

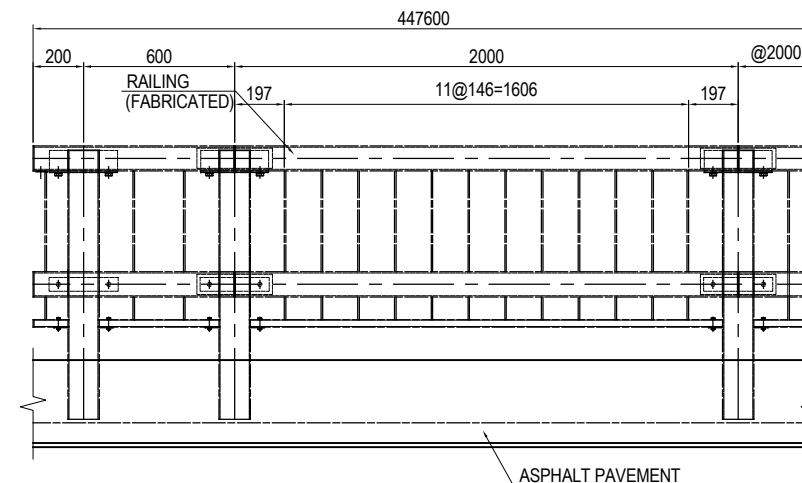
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COMPOSITE BARRIER

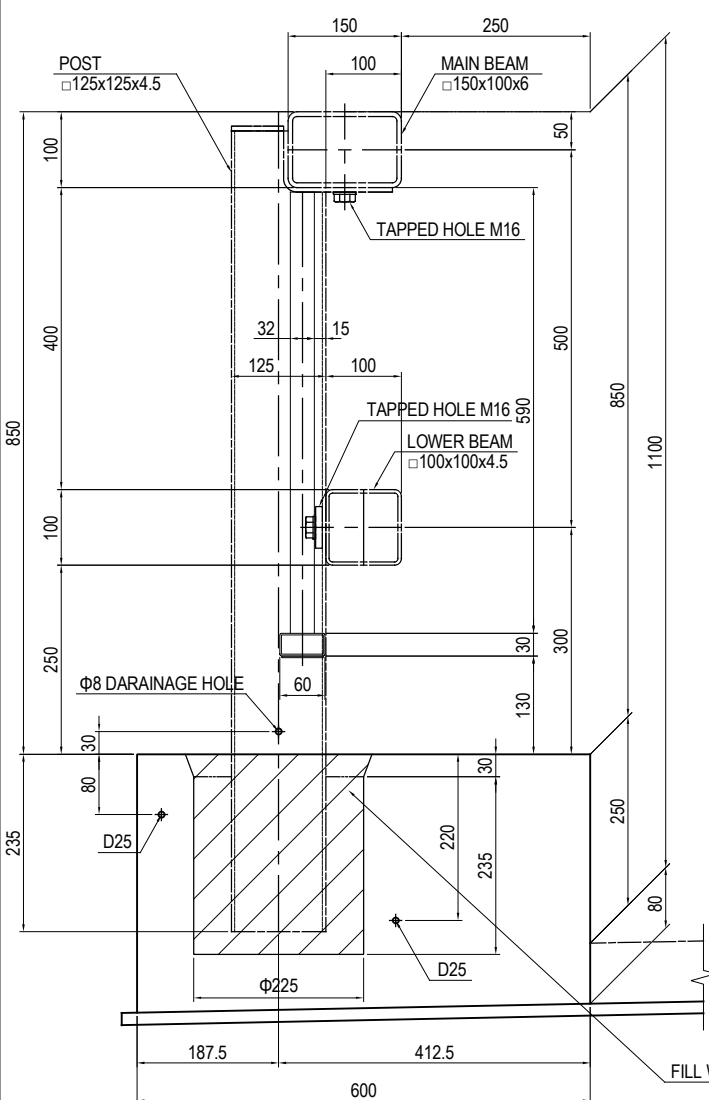
TYPICAL CROSS SECTION S=1:30



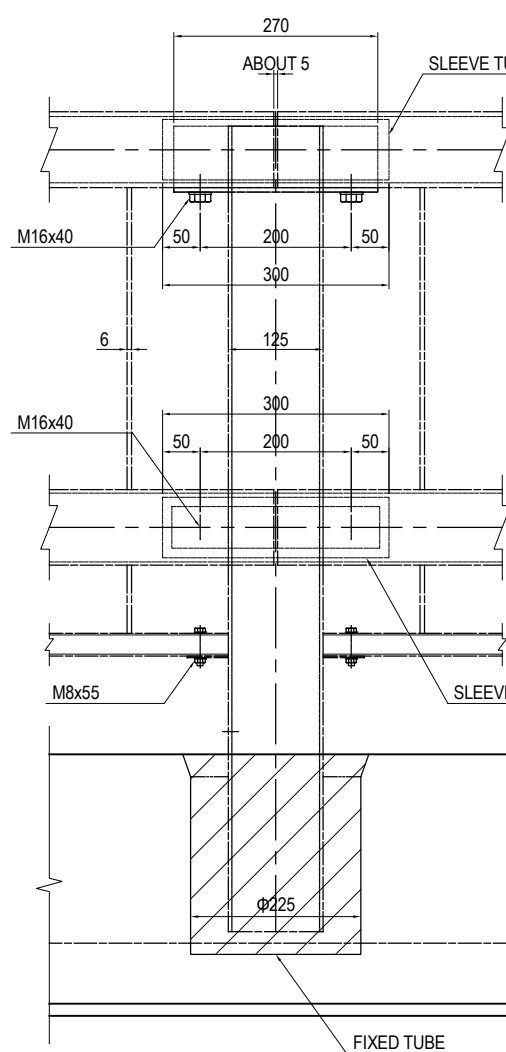
SECTION A-A S=1:30



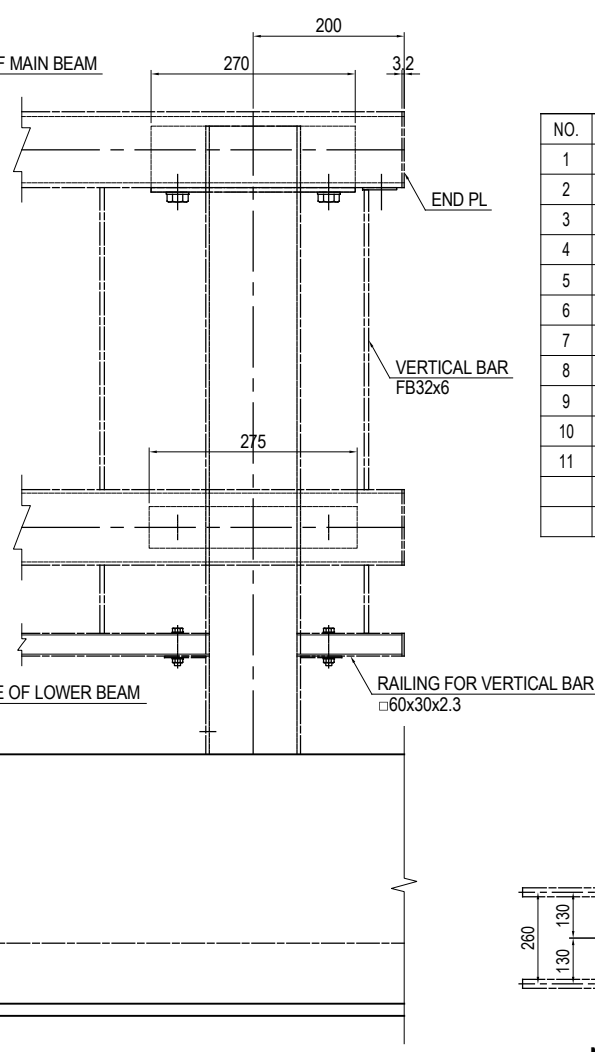
COMPOSITE BARRIER DETAIL S=1:10



JOINT DETAIL S=1:10



END POST DETAIL S=1:10



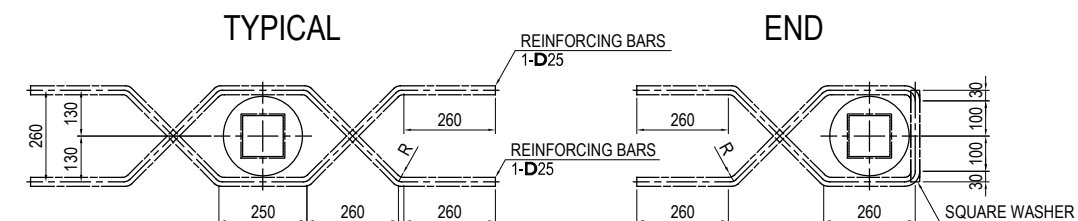
SUMMARY OF MEMBERS

NO.	MEMBER	SIZE DIMENSIONS	Q'TY	UNIT WEIGHT	WEIGHT PER UNIT	GROSS WEIGHT	MATERIAL	PAINTED AREA
1	POST	□125x125x4.5	5		20.69	103.5	STKR 400	2.7m ²
2	MAIN BEAM	□150x100x6.0	5	21.70	43.29	216.5	STKR 400	5.0m ²
3	LOWER BEAM	□100x100x4.5	5	13.10	26.13	130.7	STKR 400	4.0m ²
4	SLEEVE TUBE OF MAIN BEAM	L=300	5		6.51	32.6	SS400	
5	SLEEVE TUBE OF LOWER BEAM	L=300	5		3.71	18.6	SS400	
6	RAILING FOR VERTICAL BAR	□60x30x2.3	5	2.98	5.55	27.8	STKR 400	1.7m ²
7	VERTICAL BAR	FB32x6	10		0.89	53.4	SS400	2.6m ²
8	HEXAGON BOLT	M16x40	10		0.12	1.2	GRADE 8.8	
9	HEXAGON BOLT	M16x40	10		0.12	1.2	GRADE 6.8	
10	HEXAGON BOLT	M8x55	10		0.04	0.4	GRADE 4.6	
11	FIXED TUBE	Φ225	5		-	-	SPCC	
TOTAL						585.9		18.0m ²

PER 10m
MASS PER 1m 58.6kg/m
(EXCLUDING END SPAN)

MEMBER	SIZE DIMENSIONS	Q'TY	REMARKS
REINFORCING BAR (TYPICAL)	D25x1550	5528kg	SD345
REINFORCING BAR (END)	D25x1200	38kg	SD345

REINFORCING BARS DETAIL



NOTES:

1 - INSTALLATION OF REINFORCING BAR SHALL BE ADJUSTED IN ACCORDANCE WITH REINFORCING BAR ARRANGEMENT OF THE CONCRETE CURB.

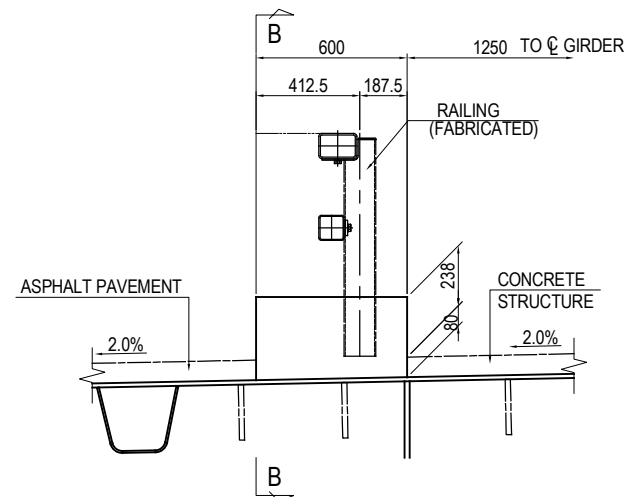
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	T. TOMODA	友田 隆雄	27. Nov. 2017	DETAIL OF RAILING (1)	1
				T. HAYAKAWA	平川 知平	28. Nov. 2017		DWG No.
				Y. SANO	佐野 祐一	29. Nov. 2017		P1-CS-3052

DETAIL OF RAILING (2)

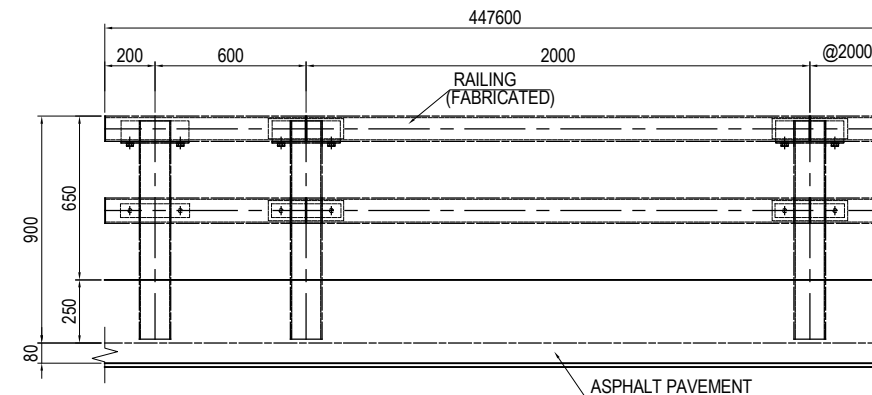
S=1:20

BARRIER FOR CARRIAGE WAY

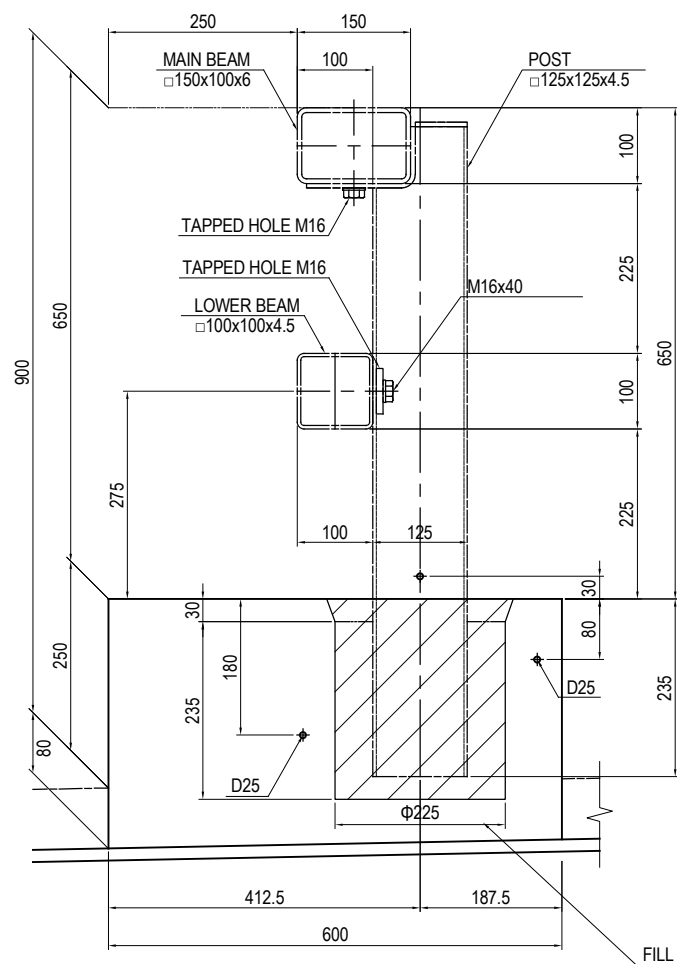
TYPICAL CROSS SECTION S=1:30



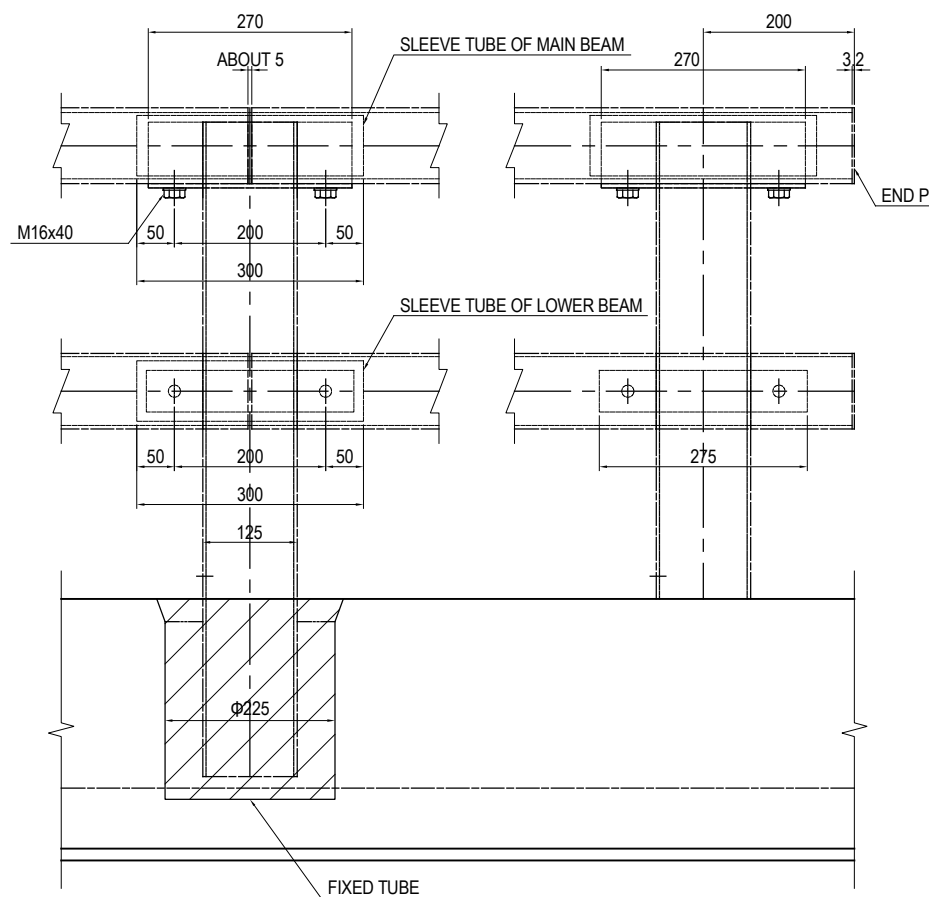
SECTION B-B S=1:30



BARRIER FOR CARRIAGE WAY DETAIL S=1:10



JOINT DETAIL S=1:10



END POST DETAIL S=1:10

SUMMARY OF MEMBERS

NO.	MEMBER	SIZE DIMENSIONS	Q'TY	UNIT WEIGHT	WEIGHT PER UNIT	GROSS WEIGHT	MATERIAL	PAINTED AREA
1	POST	□125x125x4.5	5		17.40	67.0	STKR 400	2.2m ²
2	MAIN BEAM	□150x100x6.0	5	21.70	43.29	216.5	STKR 400	5.0m ²
3	LOWER BEAM	□100x100x4.5	5	13.10	26.13	130.7	STKR 400	4.0m ²
4	SLEEVE TUBE OF MAIN BEAM	L=300	5		6.51	32.6	SS400	
5	SLEEVE TUBE OF LOWER BEAM	L=300	5		3.71	18.6	SS400	
6	HEXAGON BOLT	M16x40	10		0.12	1.2	GRADE 8.8	
7	HEXAGON BOLT	M16x40	10		0.12	1.2	GRADE 6.8	
8	FIXED TUBE	Φ225	5		-	-	SPCC	
TOTAL						487.8		11.2m ²

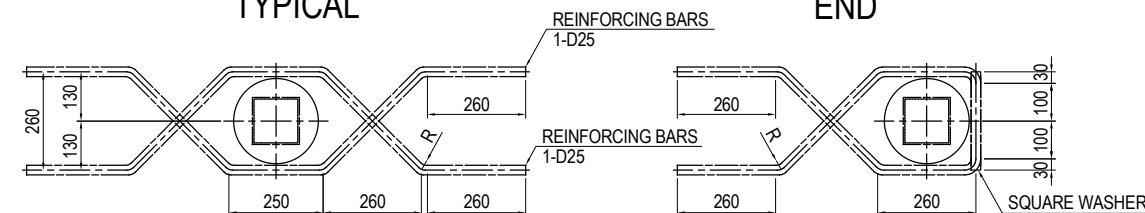
MASS PER 1m 48.8kg/m
(EXCLUDING END SPAN)

MEMBER	SIZE DIMENSIONS	Q'TY	REMARKS
REINFORCING BAR (TYPICAL)	D25x1550	5528kg	SD345
REINFORCING BAR (END)	D25x1200	38kg	SD345

REINFORCING BARS DETAIL

TYPICAL

END



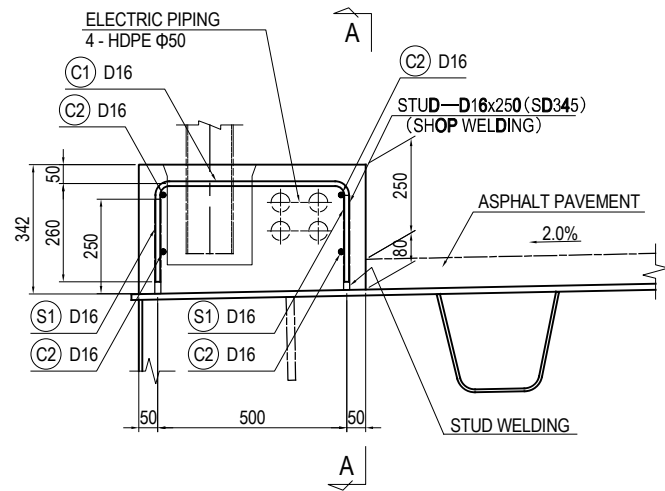
NOTES:

1 - INSTALLATION OF REINFORCING BAR SHALL BE ADJUSTED IN ACCORDANCE WITH REINFORCING BAR ARRANGEMENT OF THE CONCRETE CURB.

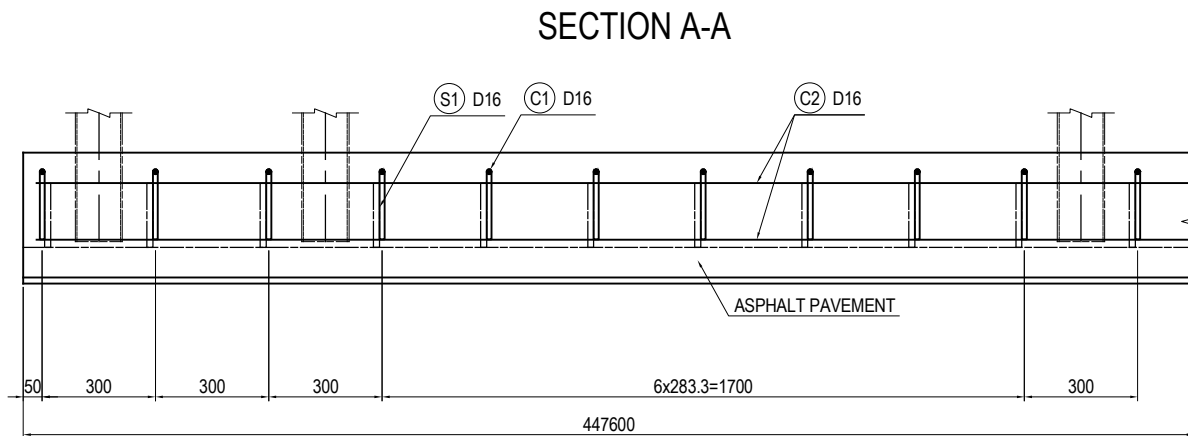
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	T. TOMODA	友田 隆雄	27. Nov. 2017	DETAIL OF RAILING (2)	1
				T. HAYAKAWA	平川 知平	28. Nov. 2017		DWG No.
				Y. SANO	佐野 祐一	29. Nov. 2017		P1-CS-3053

BRIDGE SURFACE WORK (1) S=1:20

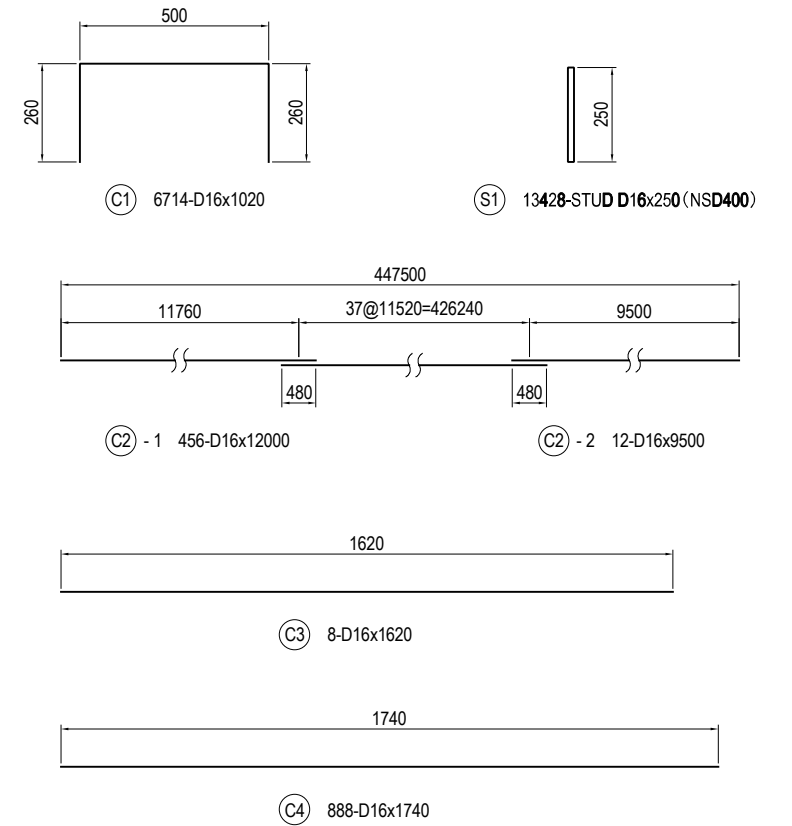
CROSS SECTION OF WHEEL GUARD



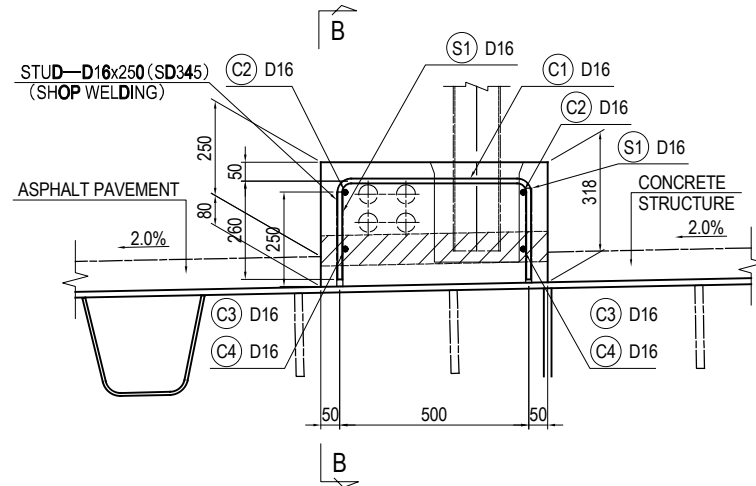
WHEEL GUARD DETAIL



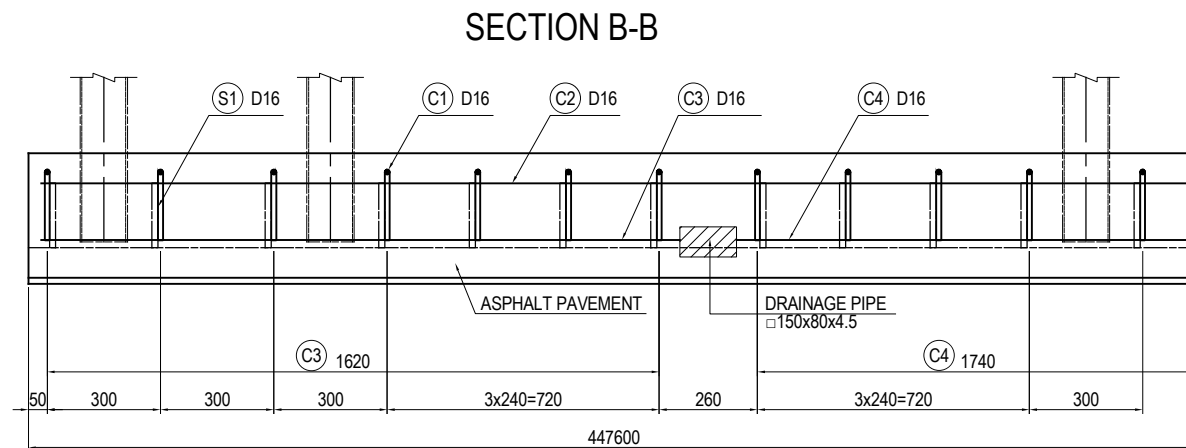
REINFORCING BAR BENDING SCHEDULE



CROSS SECTION OF MEDIAN STRIP



MEDIAN STRIP DETAIL



SUMMARY OF MEMBERS

MEMBER	Q'TY	REMARKS
REINFORCING BAR	21815kg	SD345
STUD	5237kg	SD345 FOR STUD WELDING
CONCRETE	354.5m3	σck=24N /mm2
DRAINAGE PIPE	4068kg	□ 150x80x4.5x600(STKR400)

NOTES:

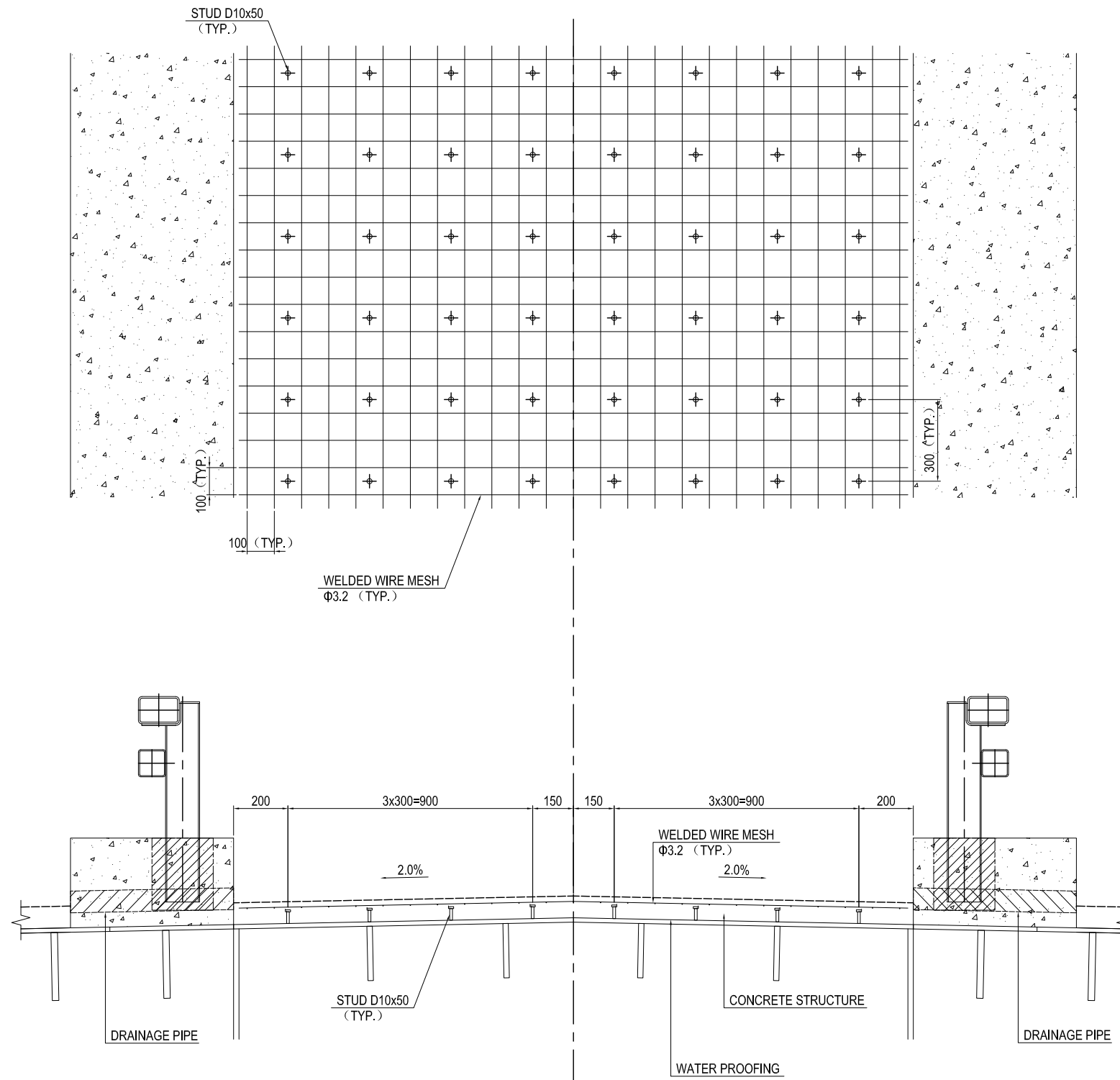
1 - STUD SHALL BE INSTALLED AND INCLUDED IN THE SCOPE OF FABRICATION OF STEEL GIRDER.

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 BRIDGE SURFACE WORK (1)	PACKAGE	
				PREPARED BY	T.TOMODA	友田 智雄		27. Nov.2017	1
				CHECKED BY	T. HAYAKAWA	平川 知平		28. Nov.2017	DWG No.
				APPROVED BY	Y. SANO	佐野 祐一		29. Nov.2017	P1-CS-3054

BRIDGE SURFACE WORK (2) S=1:20

CONCRETE STRUCTURE

SYMM. ABT \bar{C} GIRDER



SUMMARY OF MEMBERS

MEMBER	Q'TY	REMARKS
CONCRETE	89.2m3	$\sigma_{ck}=24N/mm^2$
STUD	334kg	SD345 FOR STUD WELDING
WELDED WIRE MESH	1115 m2	$\Phi 3.2$
WATER PROOFING AT MEDIAN	1115 m2	

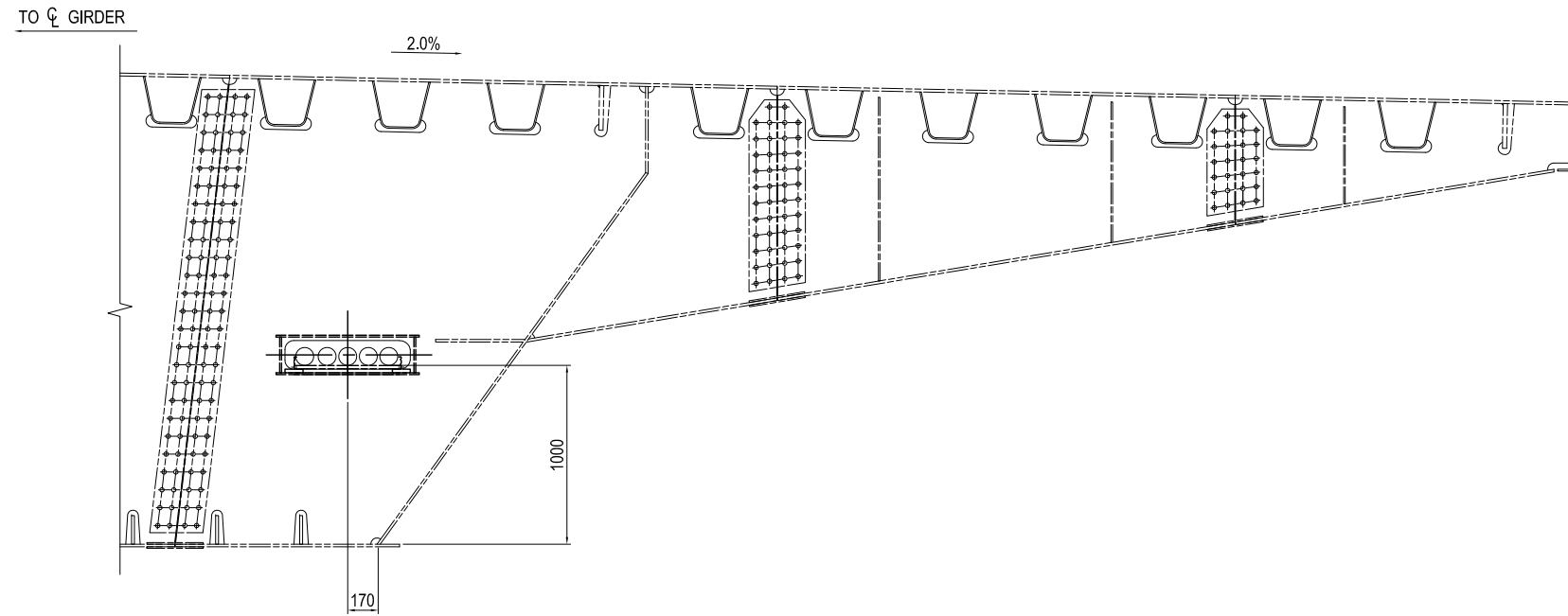
NOTES:

- 1 - DRAINAGE PIPE SHALL BE INSTALLED WHEN CONSTRUCTING CONCRETE CURB.
- 2 - STUD SHALL BE INSTALLED AND INCLUDED IN THE SCOPE OF FABRICATION OF STEEL GIRDER.

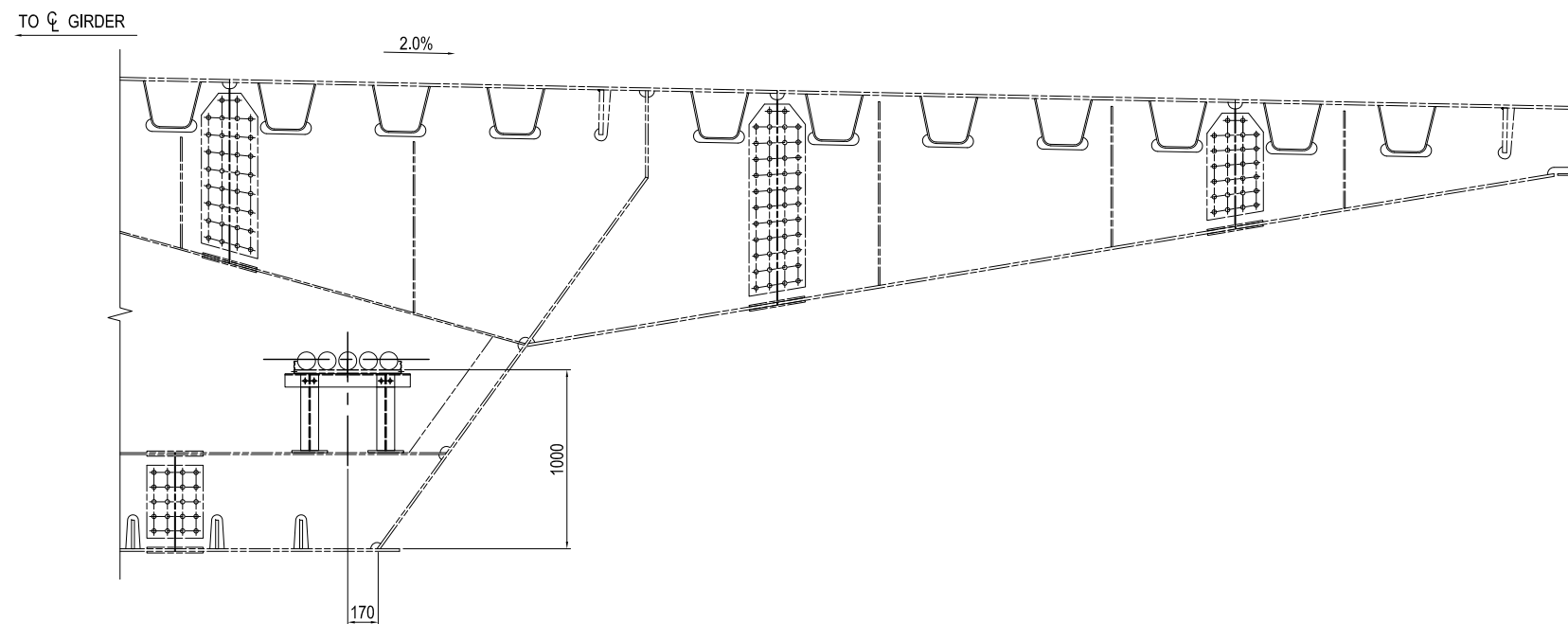
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE	
				PREPARED BY	T.TOMODA				27. Nov.2017
				CHECKED BY	T. HAYAKAWA				28. Nov.2017
				APPROVED BY	Y. SANO				29. Nov.2017
							BRIDGE SURFACE WORK (2)	1	
								DWG No.	
								P1-CS-3055	

CABLE RACK SUPPORT S=1:40

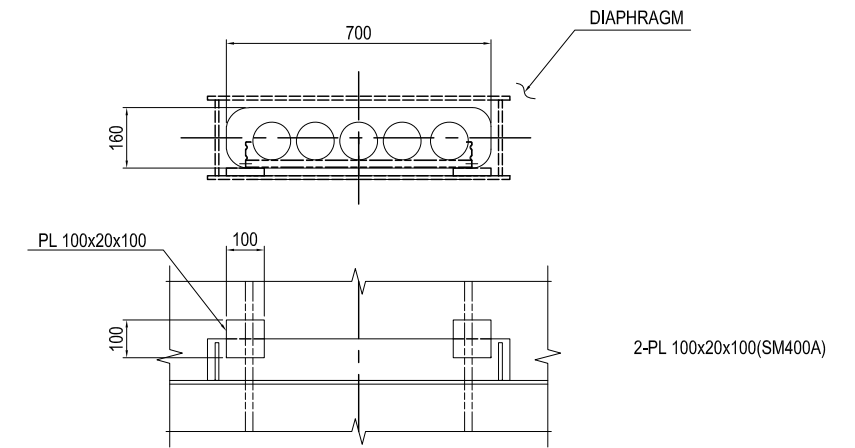
DIAPHRAGM & CROSS BEAM TYPICAL SECTION



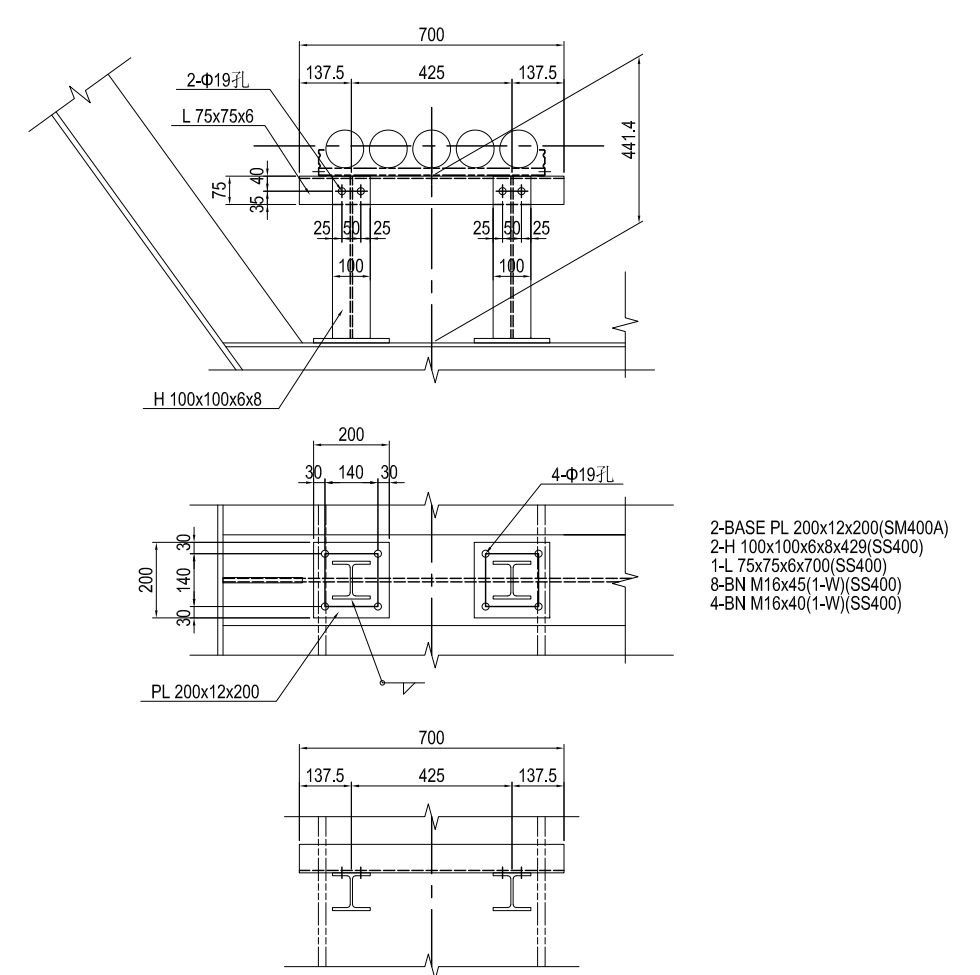
CROSSFRAME TYPICAL SECTION



DIAPHRAGM & CROSS BEAM S=1:20 (Qty = 106)



CROSSFRAME S=1:20 (Qty = 97)



NOTES:

- 1 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 2 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

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. TOMODA	友田 隆雄	27. Nov. 2017	CABLE RACK SUPPORT	1
				T. HAYAKAWA	平川 知那	28. Nov. 2017		DWG No.
				Y. SANO	佐野 祐一	29. Nov. 2017		P1-CS-3056

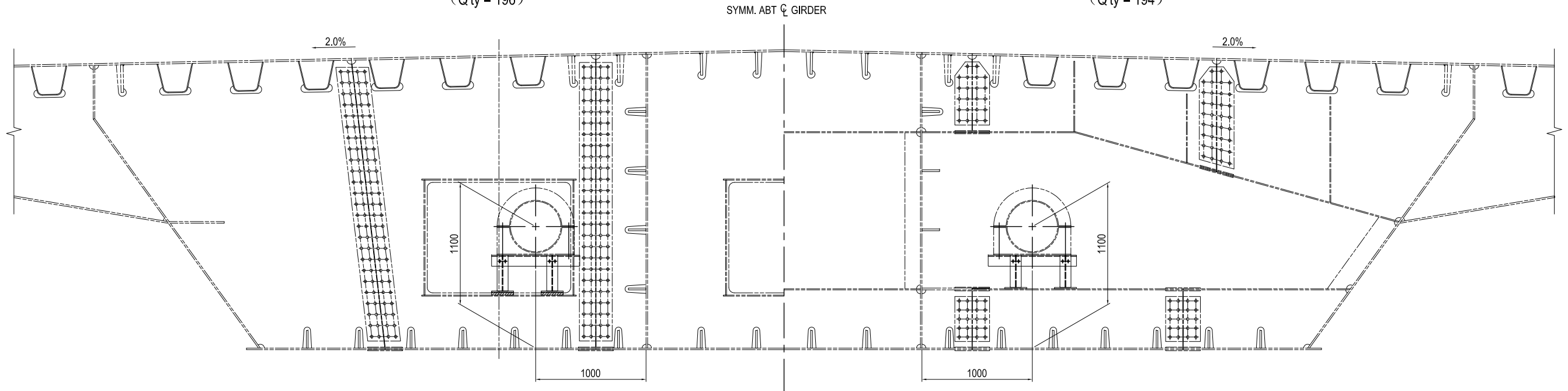
WATER PIPE SUPPORT (1) S=1:40

DIAPHRAGM HALF SECTION

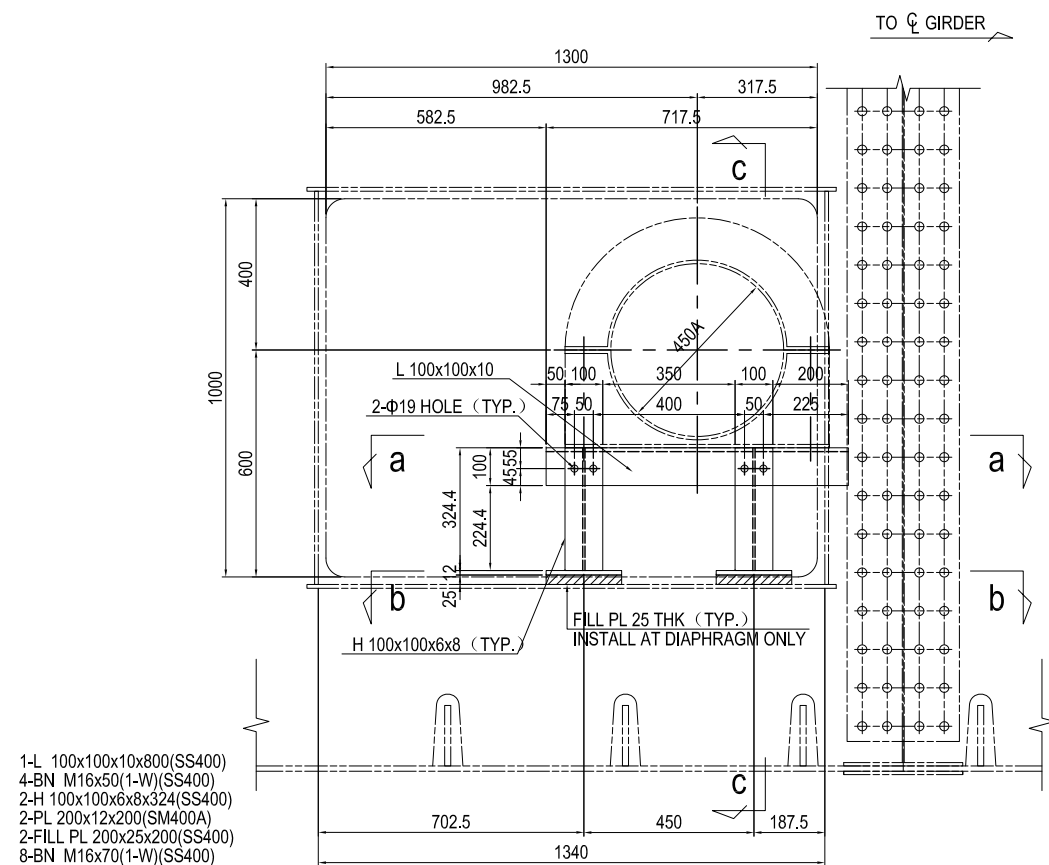
TYPICAL SECTION
(Q'ty = 196)

CROSSFRAME HALF SECTION

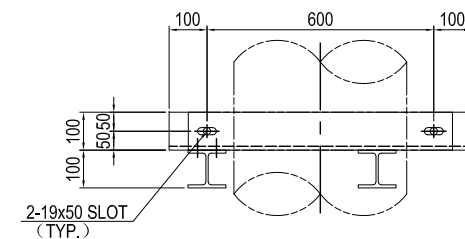
TYPICAL SECTION
(Q'ty = 194)



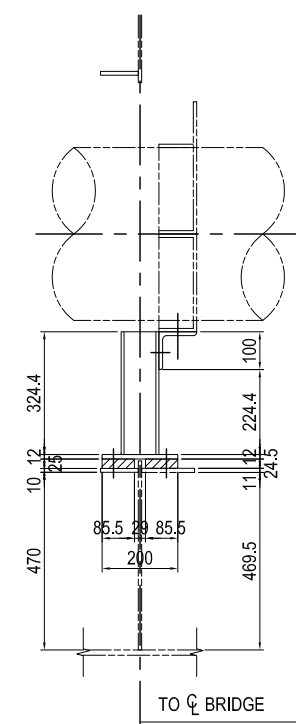
WATER PIPE SUPPORT DETAIL S=1:20



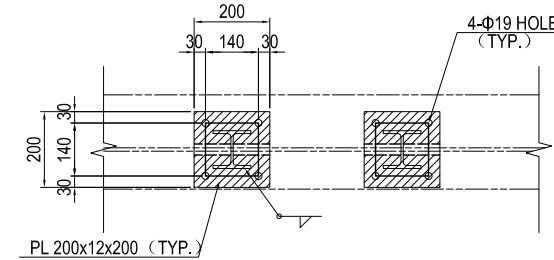
SECTION a-a S=1:20



SECTION c-c S=1:20



SECTION b-b S=1:20



NOTES:

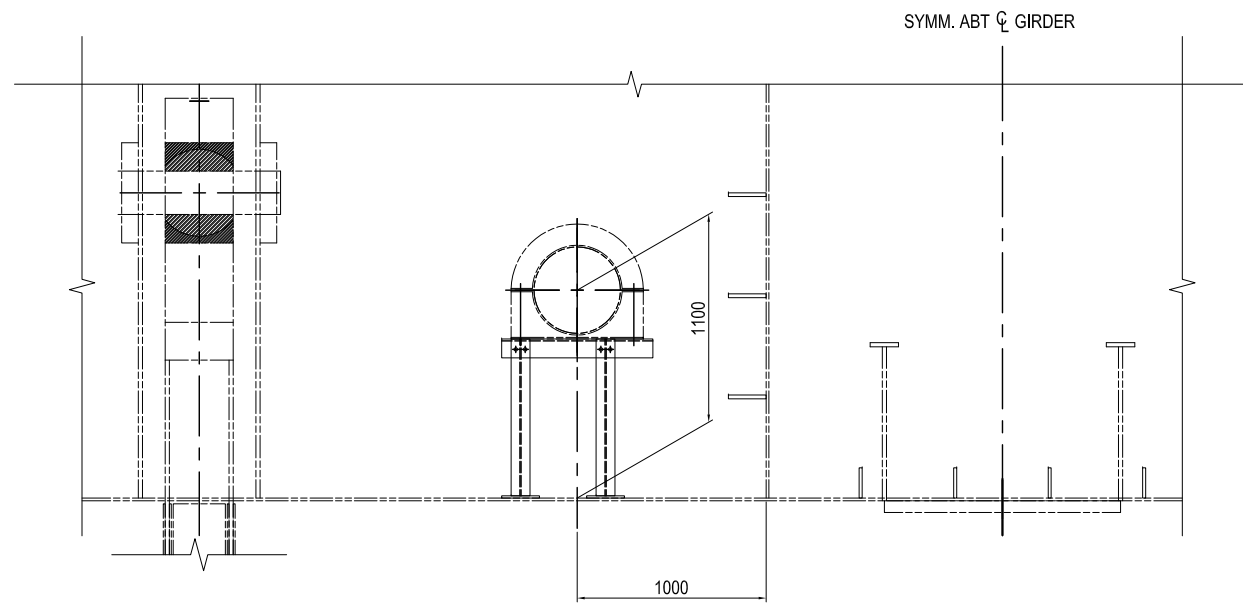
- 1 - FOR LOCATION SEE DWG NO. P1-CS-3031 TO 3033.
- 2 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 3 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

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%;"></th> <th style="width: 20%;">NAME</th> <th style="width: 20%;">SIGNATURE</th> <th style="width: 10%;">DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY</td> <td>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table>		NAME	SIGNATURE	DATE	PREPARED BY	T.TOMODA		27. Nov.2017	CHECKED BY	T. HAYAKAWA		28. Nov.2017	APPROVED BY	Y. SANO		29. Nov.2017	DRAWING TITLE <h2 style="text-align: center;">WATER PIPE SUPPORT (1)</h2>	PACKAGE 1 DWG No. P1-CS-3057
	NAME	SIGNATURE	DATE																			
PREPARED BY	T.TOMODA		27. Nov.2017																			
CHECKED BY	T. HAYAKAWA		28. Nov.2017																			
APPROVED BY	Y. SANO		29. Nov.2017																			

WATER PIPE SUPPORT (2) S=1:40

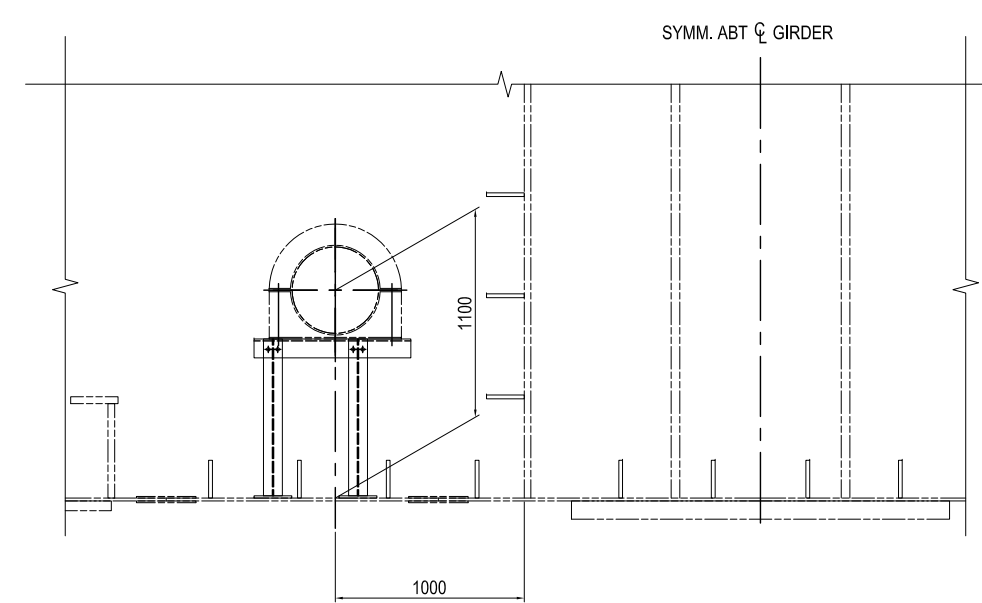
END CROSS BEAM SECTION

(Q'ty = 8)



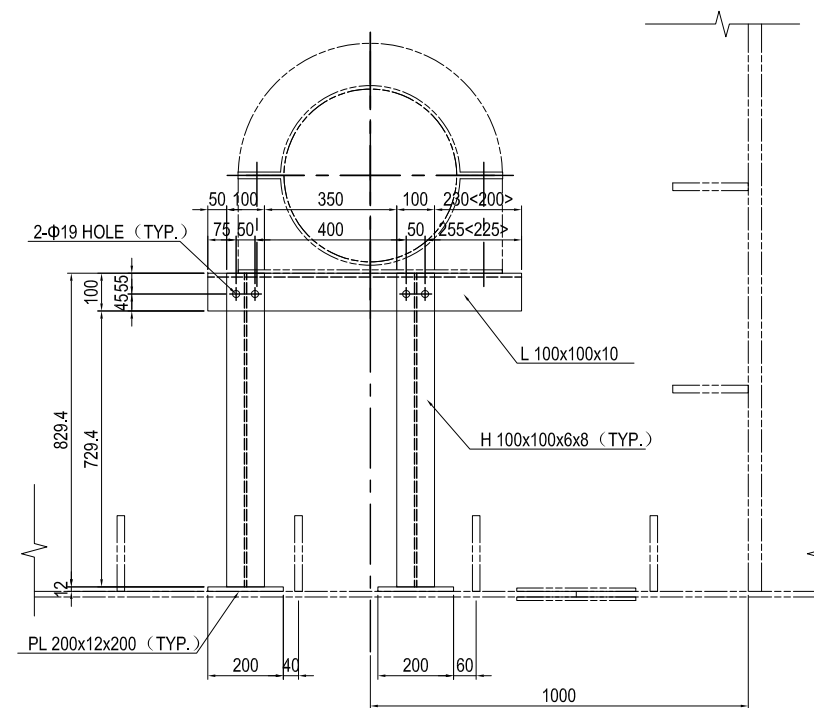
MIDDLE CROSS BEAM SECTION

(Q'ty = 8)



WATER PIPE SUPPORT DETAIL S=1:20

END CROSS BEAM <MIDDLE CROSS BEAM>



- 1-L 100x100x10x800<830>(SS400)
- 4-BN M16x50(1-W)(SS400)
- 2-H 100x100x6x8x829(SS400)
- 2-PL 200x12x200(SM400A)
- 8-BN M16x50(1-W)(SS400)

NOTES:

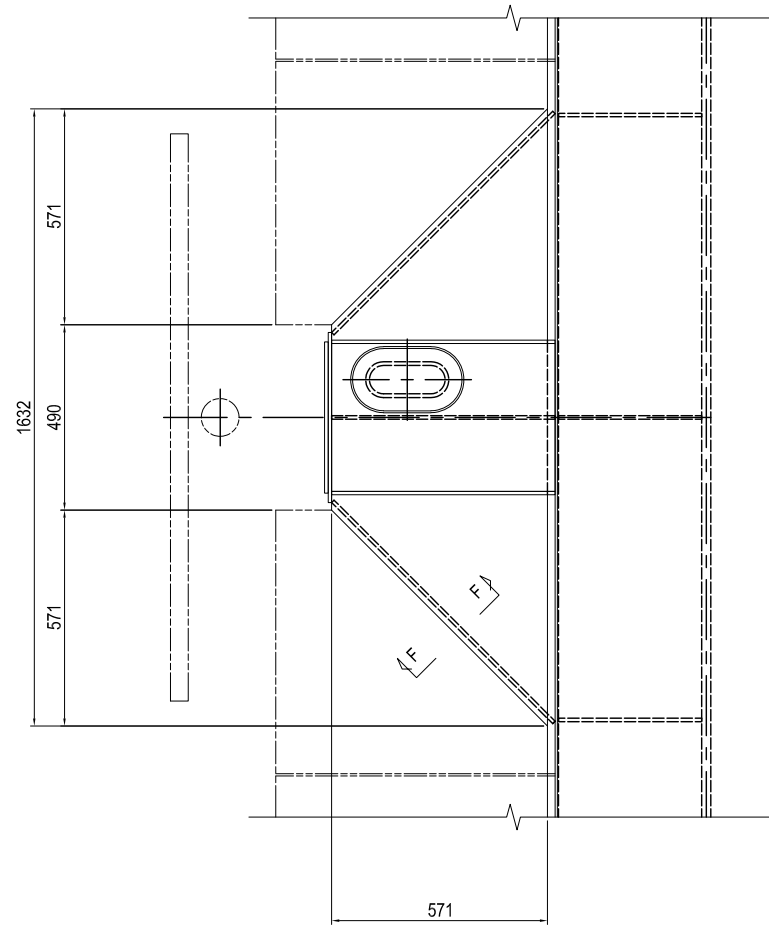
- 1 - UNLESS NOTED OTHERWISE, SEE DWG NO. P1-CS-3057.
- 2 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 3 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

<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;"> <thead> <tr> <th style="width: 10%;"></th> <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</td> <td>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table>		NAME	SIGNATURE	DATE	PREPARED BY	T.TOMODA		27. Nov.2017	CHECKED BY	T. HAYAKAWA		28. Nov.2017	APPROVED BY	Y. SANO		29. Nov.2017	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 100%;">DRAWING TITLE</th> <th style="width: 10%;">PACKAGE</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">WATER PIPE SUPPORT (2)</td> <td style="text-align: center;">1</td> </tr> <tr> <td></td> <td style="text-align: center;">DWG No.</td> </tr> <tr> <td></td> <td style="text-align: center;">P1-CS-3058</td> </tr> </tbody> </table>	DRAWING TITLE	PACKAGE	WATER PIPE SUPPORT (2)	1		DWG No.		P1-CS-3058
	NAME	SIGNATURE	DATE																										
PREPARED BY	T.TOMODA		27. Nov.2017																										
CHECKED BY	T. HAYAKAWA		28. Nov.2017																										
APPROVED BY	Y. SANO		29. Nov.2017																										
DRAWING TITLE	PACKAGE																												
WATER PIPE SUPPORT (2)	1																												
	DWG No.																												
	P1-CS-3058																												

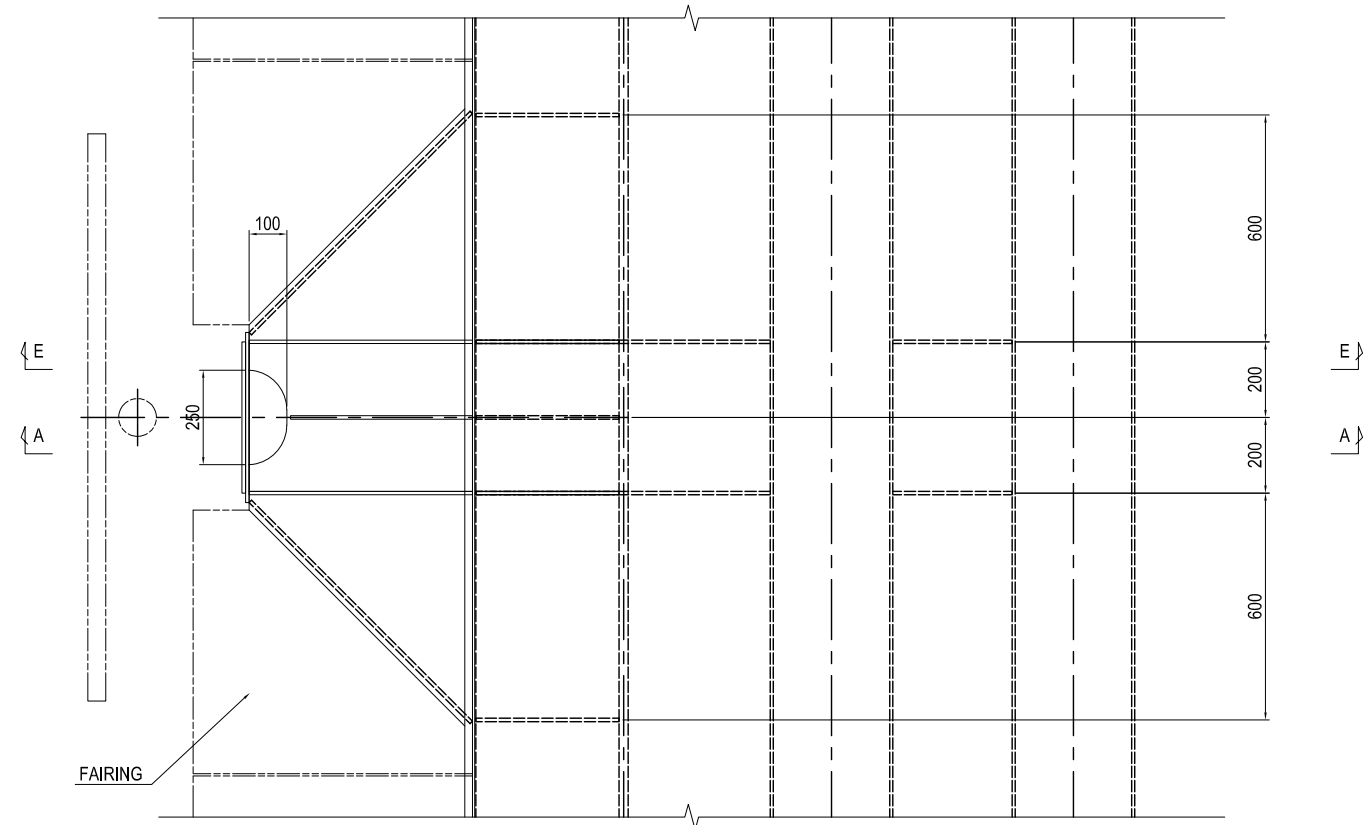
NAVIGATION SIGN & LIGHT (1)

S=1:20

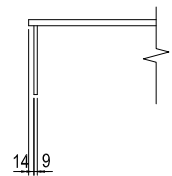
SECTION C-C



SECTION D-D



SECTION F-F



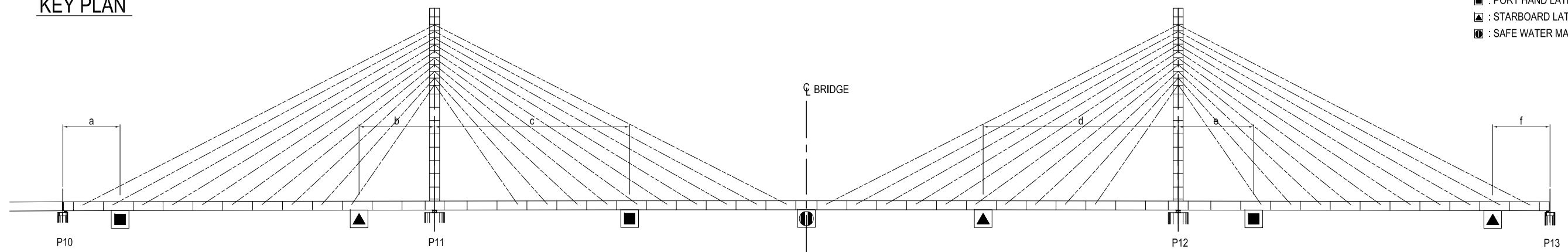
NOTES:

- 1 - SEE THE ELECTRICAL DRAWING FOR DETAILS ON NAVIGATION LIGHTS.

LEGENDS:

- : PORT HAND LATERAL MARK
- ▲ : STARBOARD LATERAL MARK
- ◻ : SAFE WATER MARK

KEY PLAN

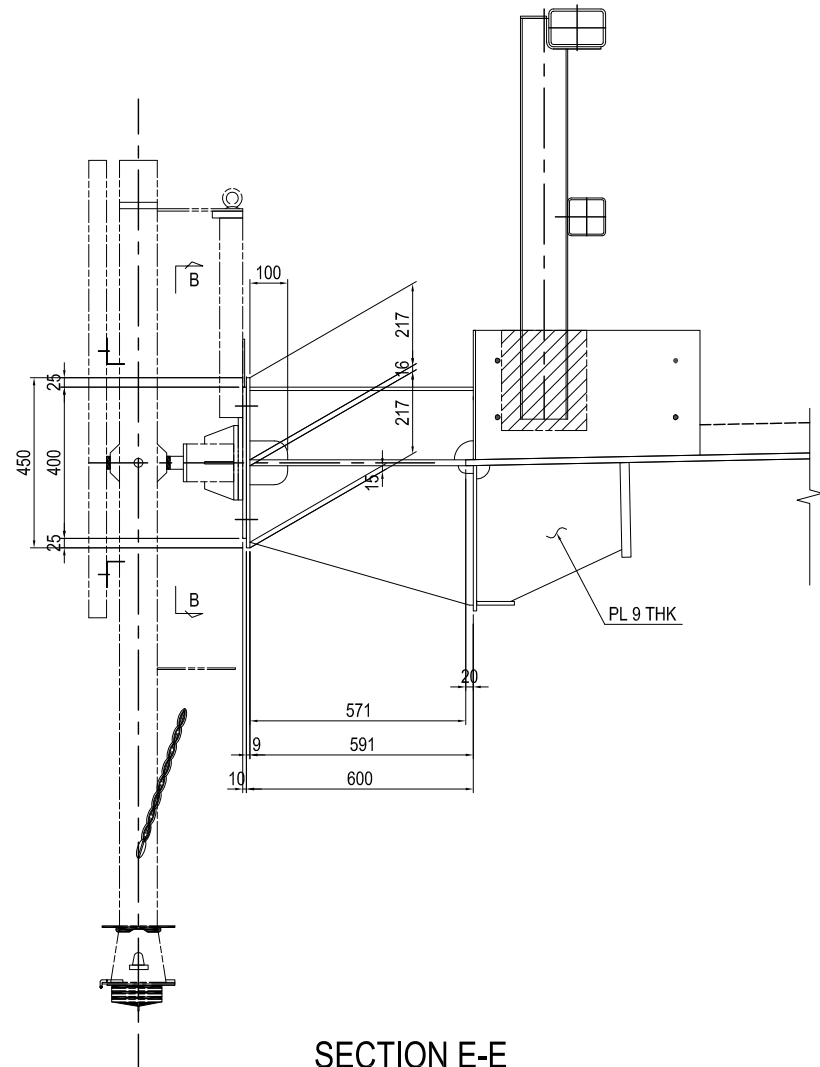


PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE	
				PREPARED BY	T.TOMODA				27. Nov.2017
				CHECKED BY	T. HAYAKAWA				28. Nov.2017
				APPROVED BY	Y. SANO				29. Nov.2017
NAVIGATION SIGN & LIGHT (1)							1	DWG No.	
								P1-CS-3059	

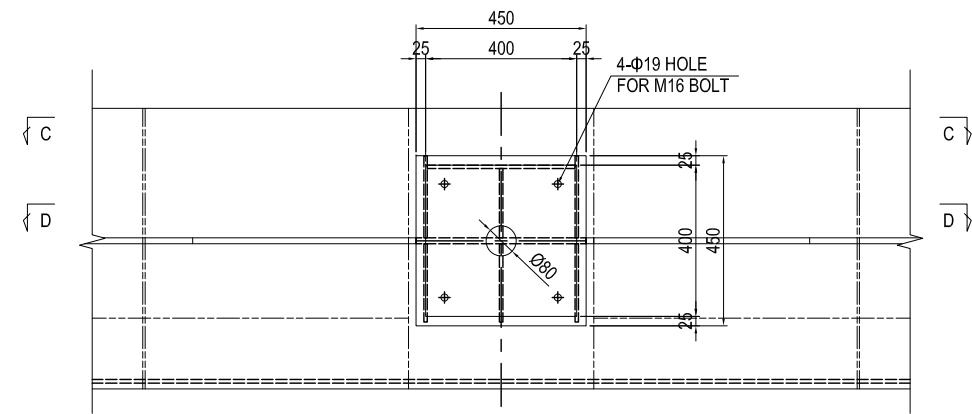
NAVIGATION SIGN & LIGHT (2)

S=1:20

SECTION A-A

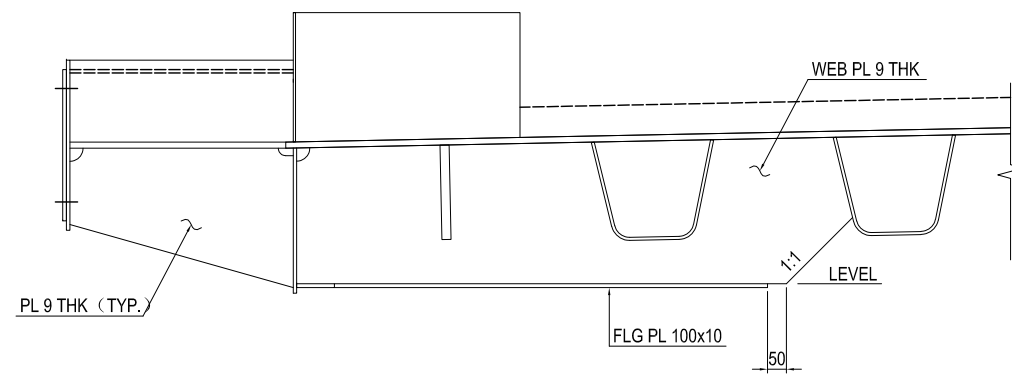


SECTION B-B



- 1-DECK PL 571x16x1632(SM400A)
- 1-TOP PL 391x9x591(SM400A)
- 1-RIB PL 183x9x591(SM400A)
- 2-RIB PL 217x9x591(SM400A)
- 3-RIB PL 369x9x591(SM400A)
- 1-RIB PL 367x9x384(SM400A)
- 2-WEB PL 388x9x1471(SM400A)
- 2-FLG PL 100x10x1146(SM400A)
- 2-RIB PL 182x9x827(SM400A)
- 1-BASE PL 450x9x450(SM400A)
- 1-BASE PL 400x10x400(SM400A)

SECTION E-E

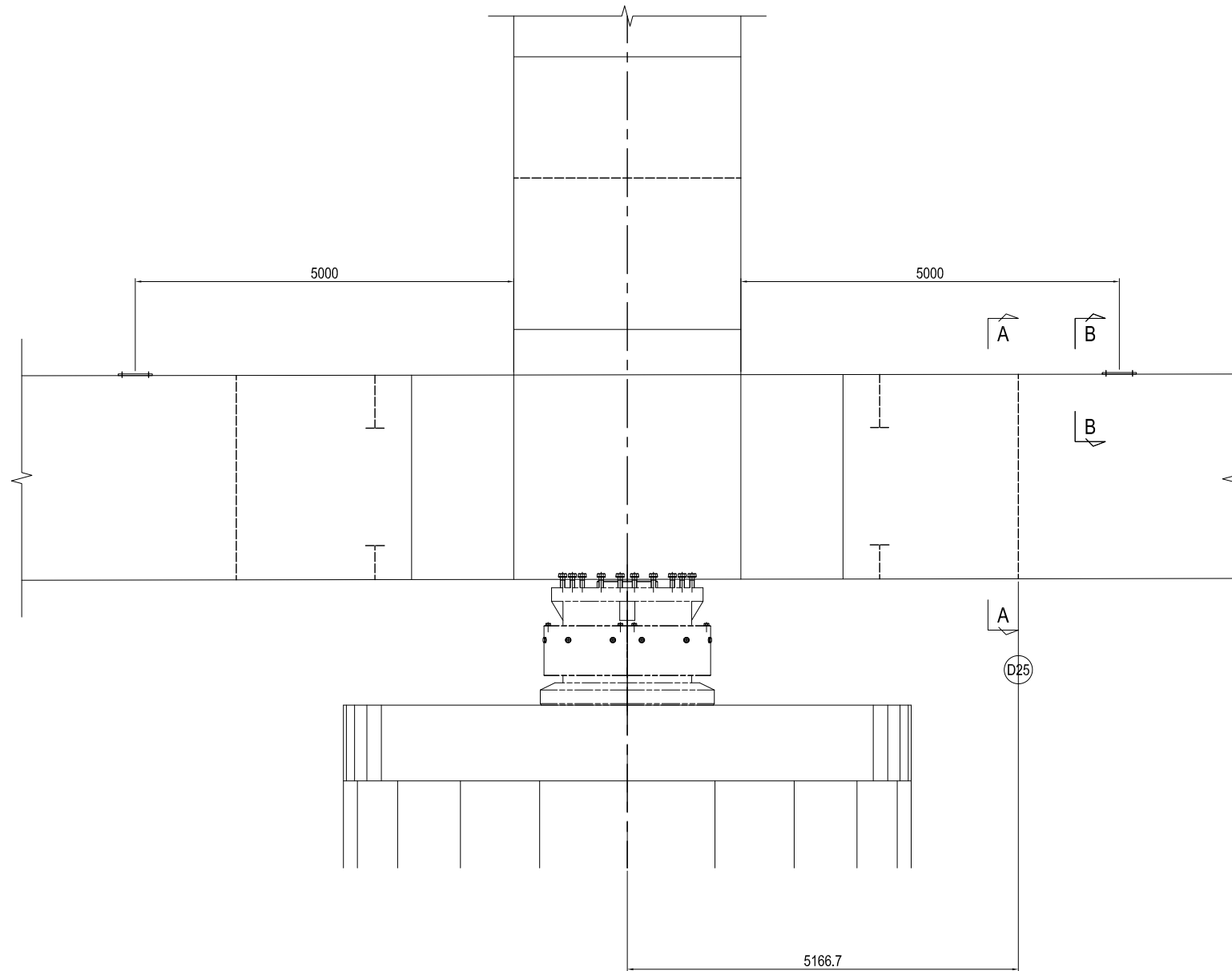


PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	T.TOMODA	友田 智雄	27. Nov.2017	NAVIGATION SIGN & LIGHT (2)	1
				T. HAYAKAWA	平川 知那	28. Nov.2017		DWG No.
				Y. SANO	佐野 祐一	29. Nov.2017		P1-CS-3060

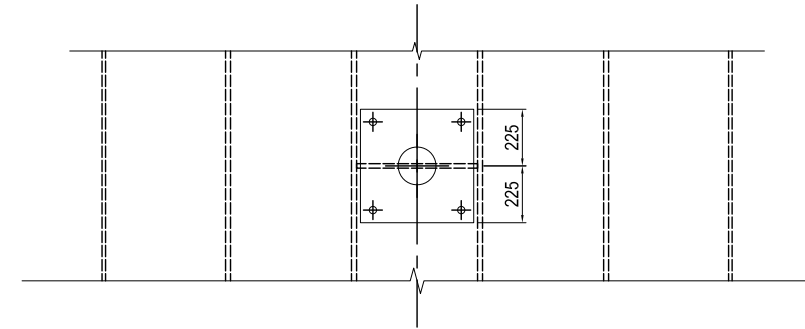
LIGHT-UP SYSTEM (1)

S=1:80

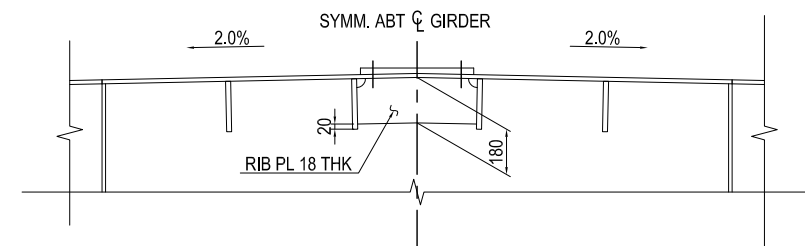
FOR MAIN TOWER



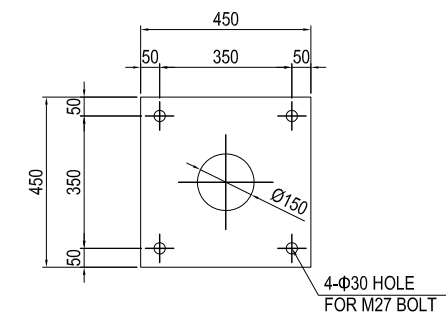
PLAN VIEW FOR TOP OF DECK PL S=1:30



SECTION B-B S=1:30

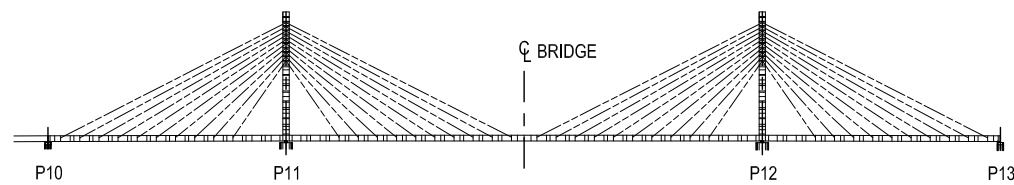


BASE PL S=1:20



1-BASE PL 450x27x450(SM400A)
1-RIB PL 180x18x480(SM400A)

KEY PLAN



NOTES:

- 1 - SEE THE ELECTRICAL DRAWING FOR DETAILS ON LIGHT-UP SYSTEM.
- 2 - ADJUST VARIOUS FORMS OF THE BASE PL ACCORDING TO THE ELECTRICAL EQUIPMENT INSTALLED.

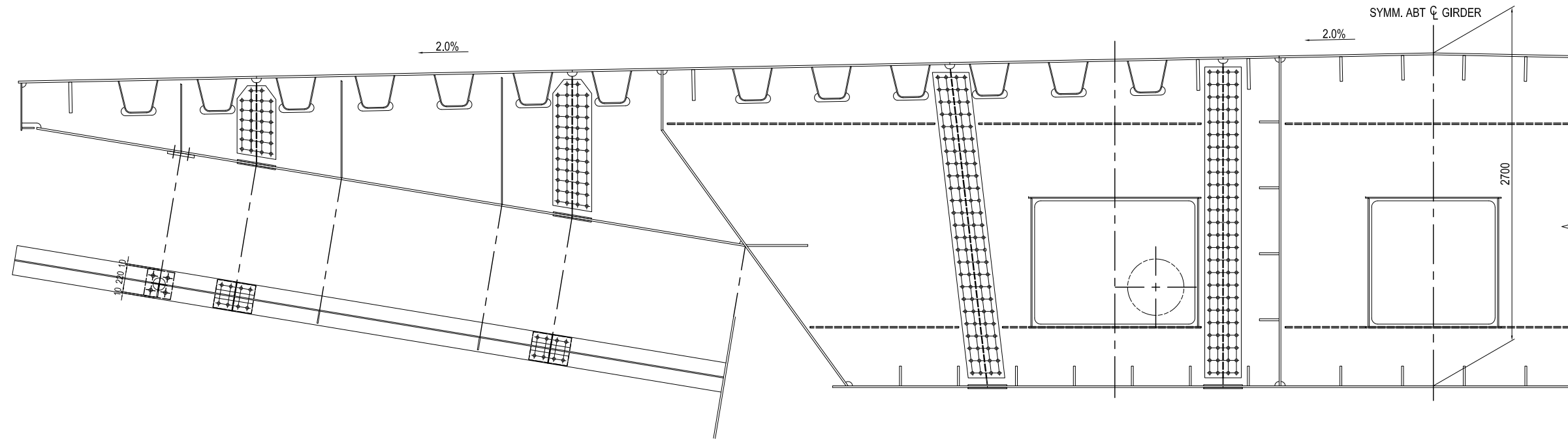
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	T. TOMODA	友田 隆雄	27. Nov. 2017	LIGHT-UP SYSTEM (1)	1
				T. HAYAKAWA	平川 知平	28. Nov. 2017		DWG No.
				Y. SANO	佐野 祐一	29. Nov. 2017		P1-CS-3061

LIGHT-UP SYSTEM (2)

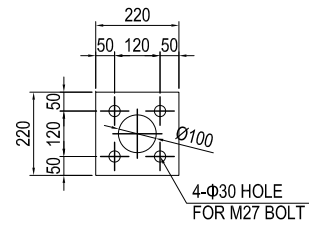
S=1:40

FOR PIER

SECTION A-A DIAPHRAGM D25



BASE PL S=1:20



1-BASE PL 220x220x220(SM400A)

NOTES:

- 1 - SEE THE ELECTRICAL DRAWING FOR DETAILS ON LIGHT-UP SYSTEM.
- 2 - ADJUST VARIOUS FORMS OF THE BASE PL ACCORDING TO THE ELECTRICAL EQUIPMENT INSTALLED.

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	T.TOMODA				27. Nov.2017
				CHECKED BY	T. HAYAKAWA				28. Nov.2017
				APPROVED BY	Y. SANO				29. Nov.2017
							LIGHT-UP SYSTEM (2)	1	
								DWG No.	
								P1-CS-3062	

MAIN TOWER ANCILLARY WORKS LAYOUT S=1:300

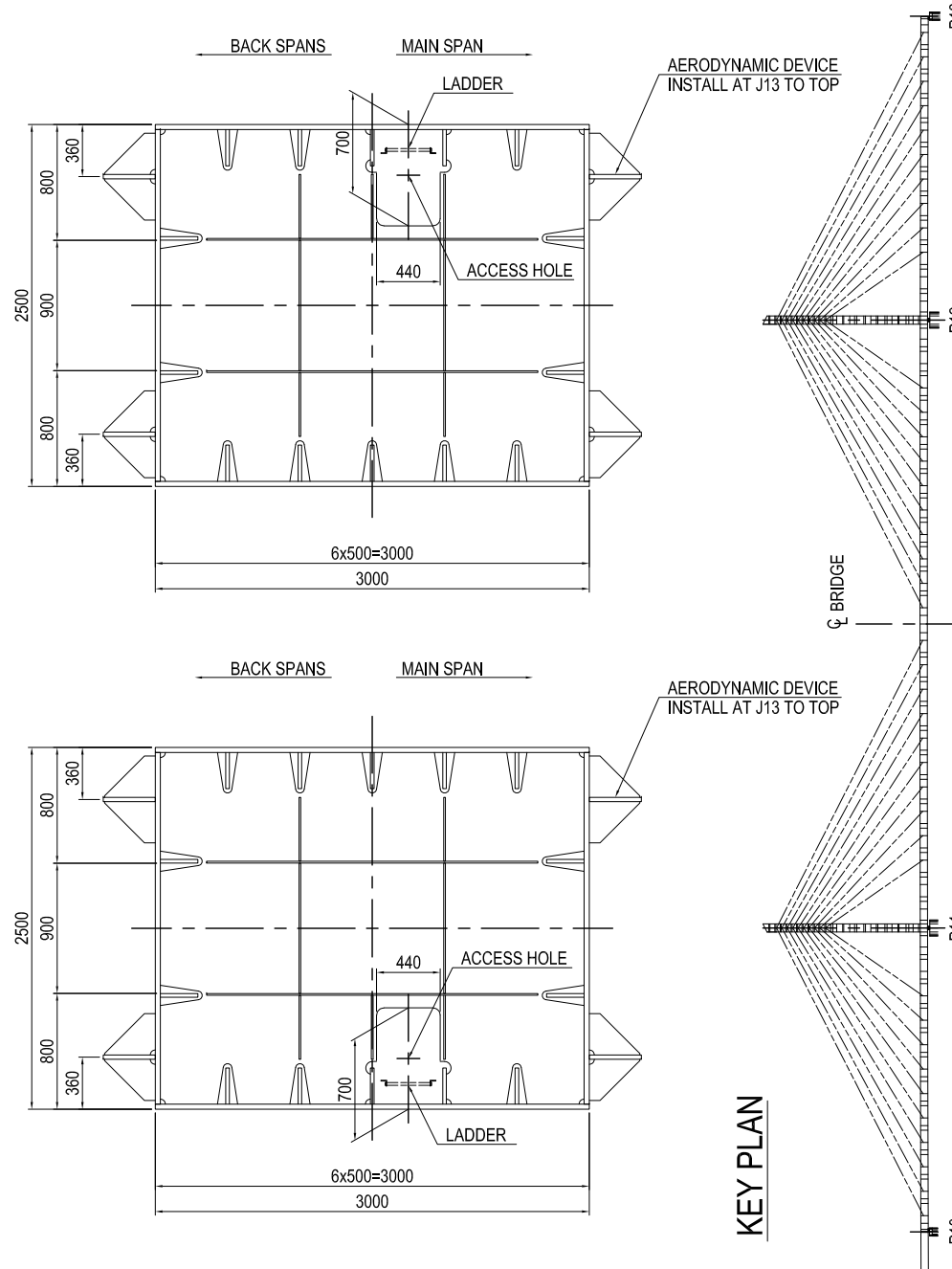
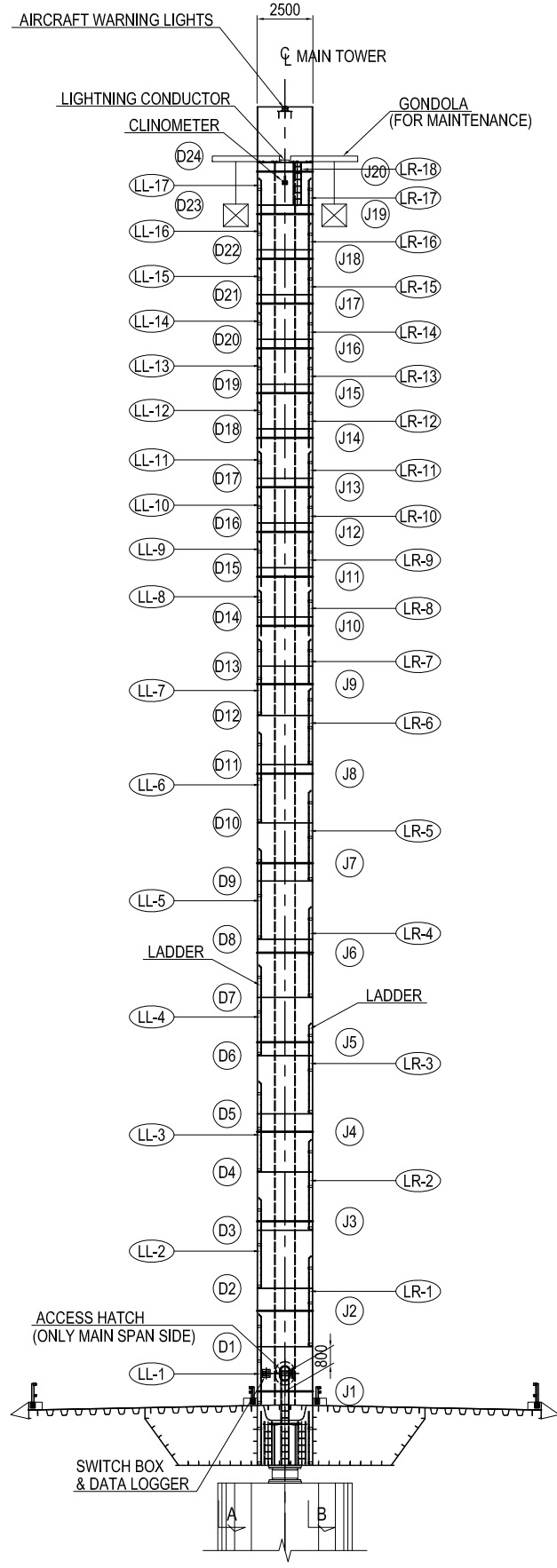
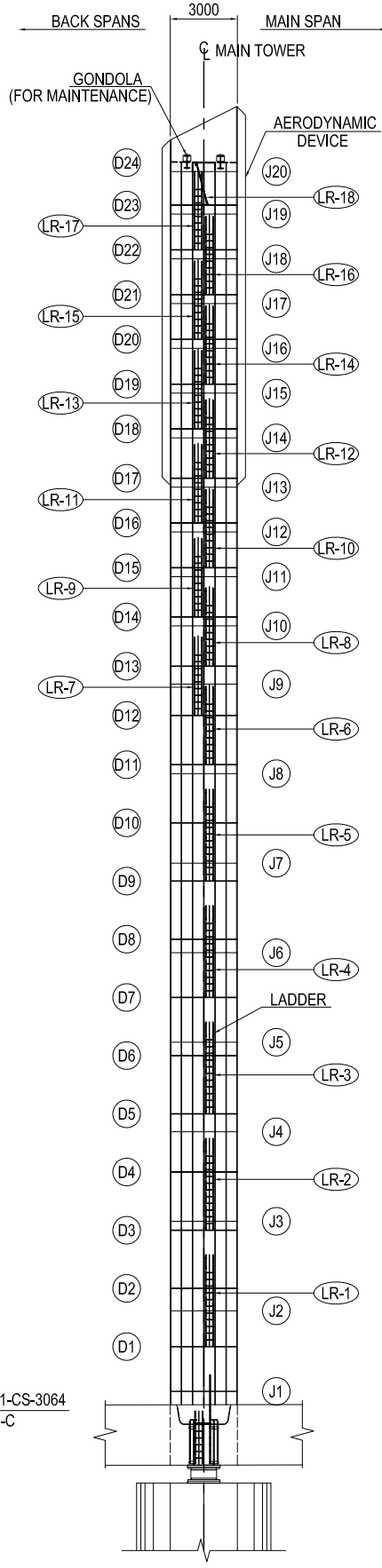
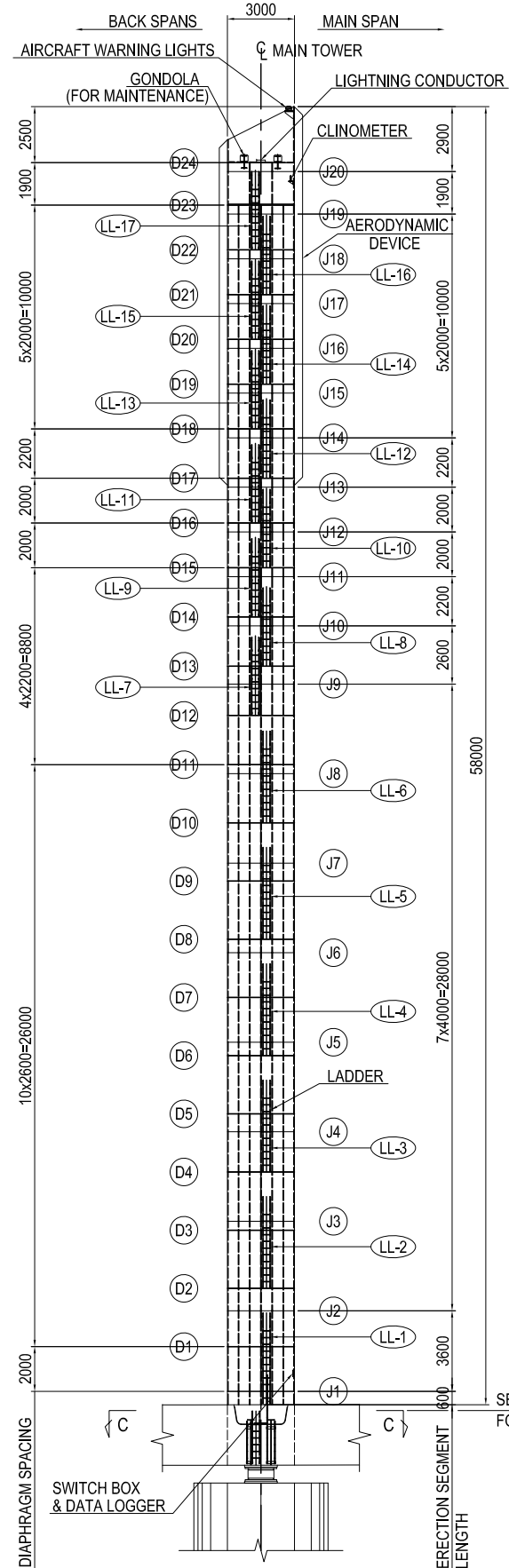
SIDE ELEVATION

FRONT ELEVATION

SECTION A-A

SECTION B-B

TYPICAL DIAPHRAGM S=1:50



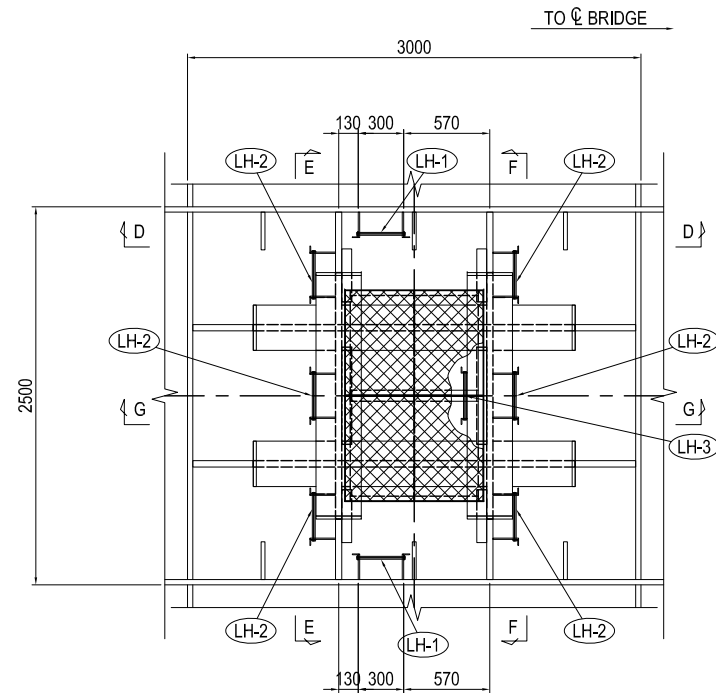
- NOTES:**
- 1 - MAIN TOWER P11 SHOWN, MAIN TOWER P12 SIMILAR OPPOSITE HAND.
 - 2 - INSTALL A DATA LOGGER AT THE BASE OF MAIN TOWER.
 - 3 - ANCILLARIES SHOWN ON SECTION A-A.

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 PREPARED BY S. TOKUMARU CHECKED BY T. HAYAKAWA APPROVED BY Y. SANO	SIGNATURE DATE 27. Nov.2017 28. Nov.2017 29. Nov.2017	DRAWING TITLE MAIN TOWER ANCILLARY WORKS LAYOUT	PACKAGE 1 DWG No. P1-CS-3063
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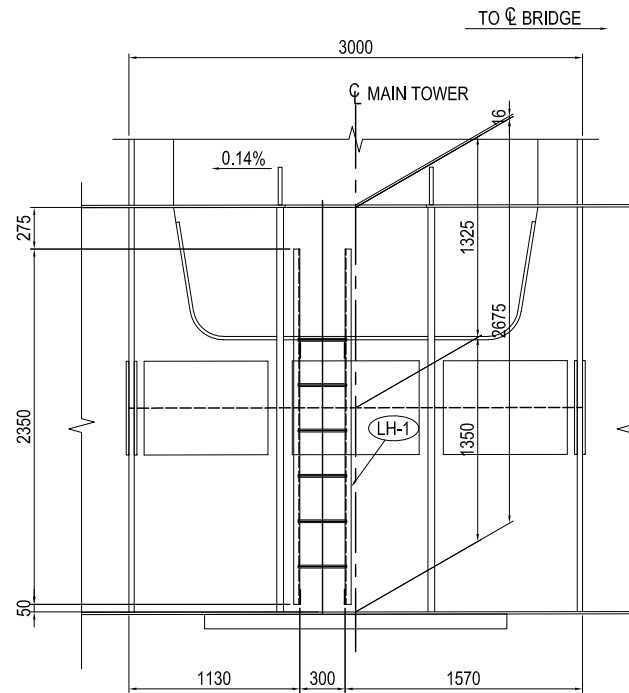
LADDER (1)

S=1:50

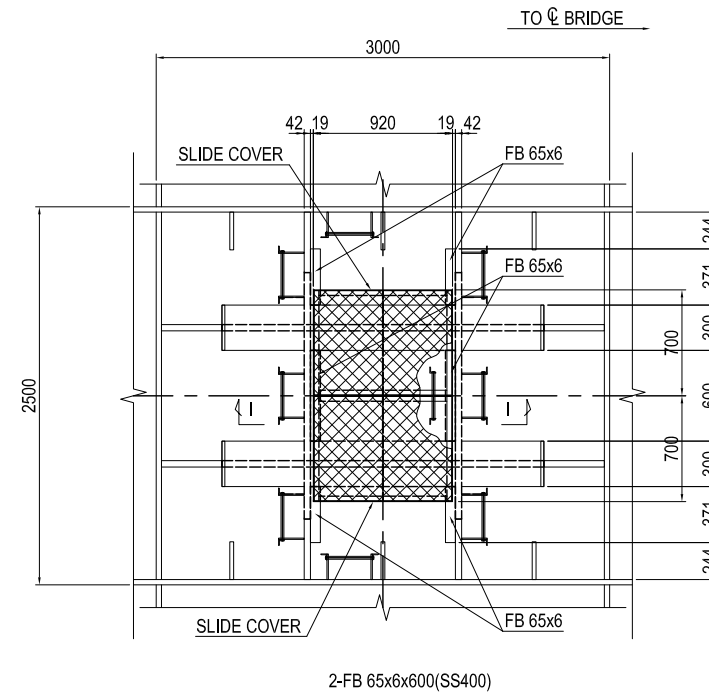
SECTION C-C



SECTION D-D

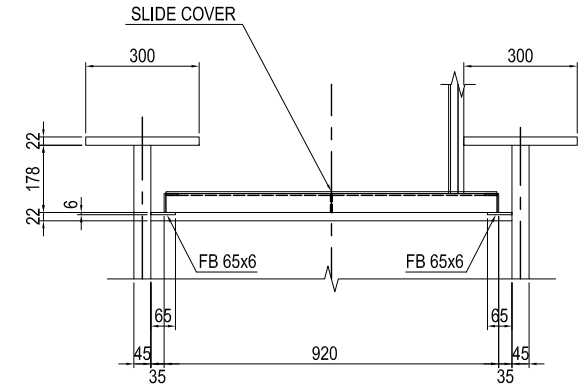


SECTION H-H

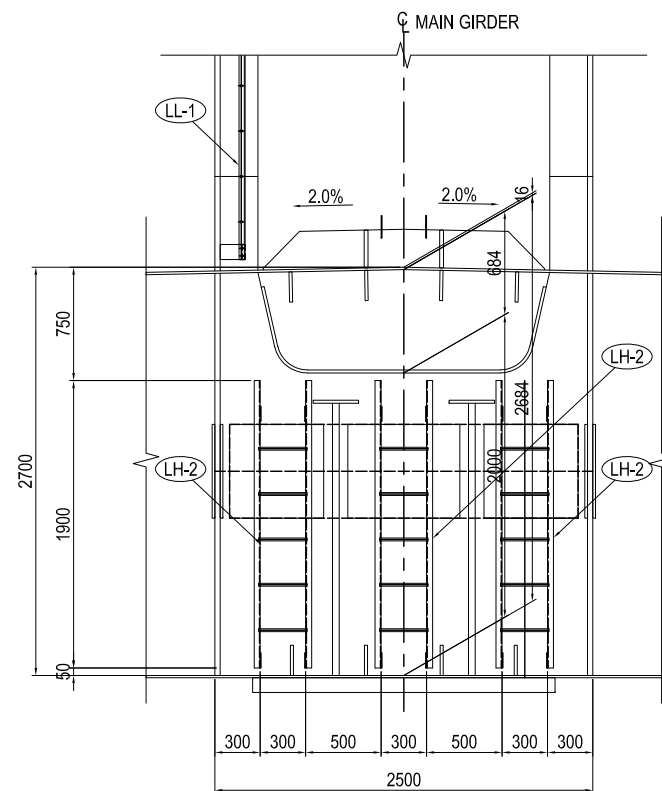


2-FB 65x6x600(SS400)
4-FB 65x6x371(SS400)

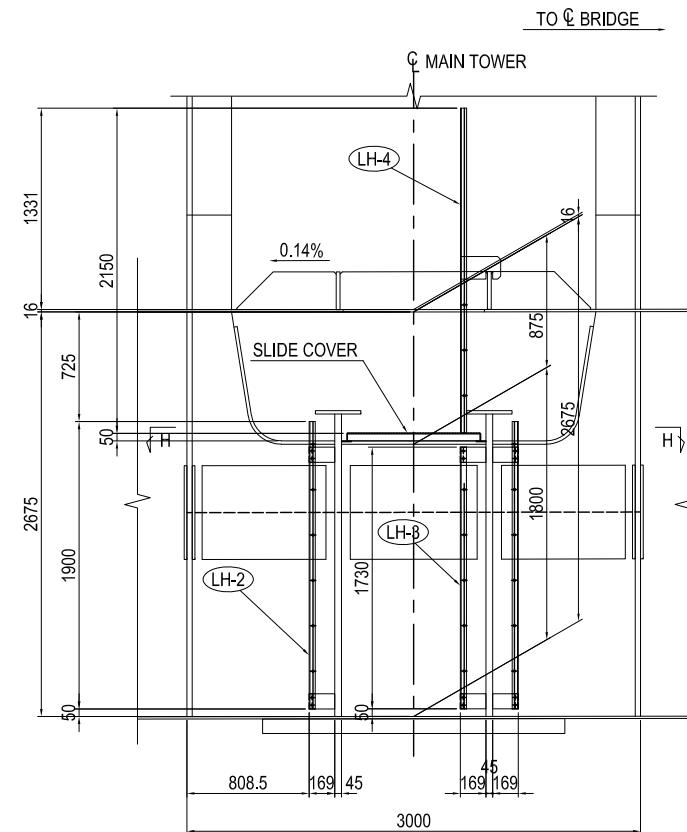
SECTION I-I S=1:20



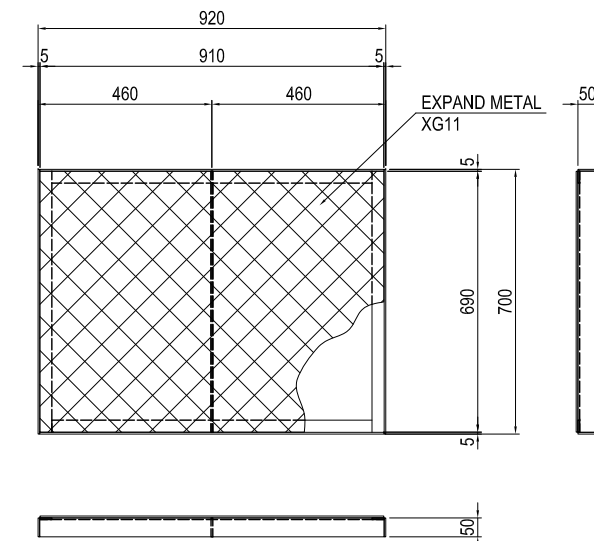
SECTION E-E(F-F)



SECTION G-G



SLIDE COVER DETAIL S=1:20



- 1-EX 690x910(XG11)
- 2-FB 50x4.5x911(SS400)
- 2-FB 50x4.5x700(SS400)
- 1-FB 50x4.5x691(SS400)
- 2-FB 32x4.5x847(SS400)
- 2-FB 32x4.5x691(SS400)

NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-3063.
- 2 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 3 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

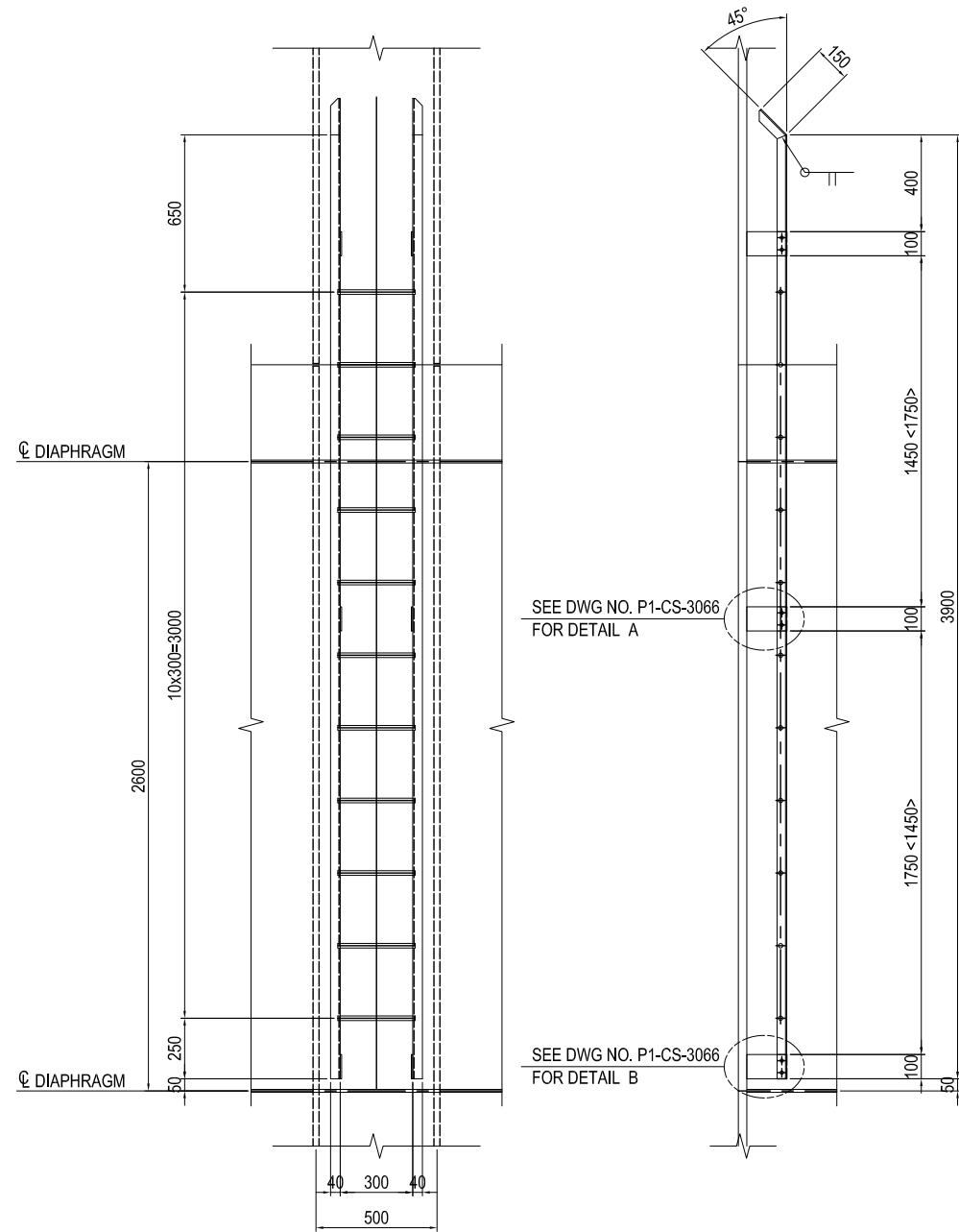
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE LADDER (1)	PACKAGE 1 DWG No. P1-CS-3064	
				PREPARED BY	T.TOMODA				27. Nov.2017
				CHECKED BY	T. HAYAKAWA				28. Nov.2017
				APPROVED BY	Y. SANO				29. Nov.2017

LADDER (2)

S=1:30

LADDER DETAIL

LL-1 - LL-6
LR-1 - LR-3, LR-5 & LR-4 >



SEE DWG NO. P1-CS-3066 FOR DETAIL A

SEE DWG NO. P1-CS-3066 FOR DETAIL B

LL-1 - LL-6
LR-1 - LR-3, LR-5

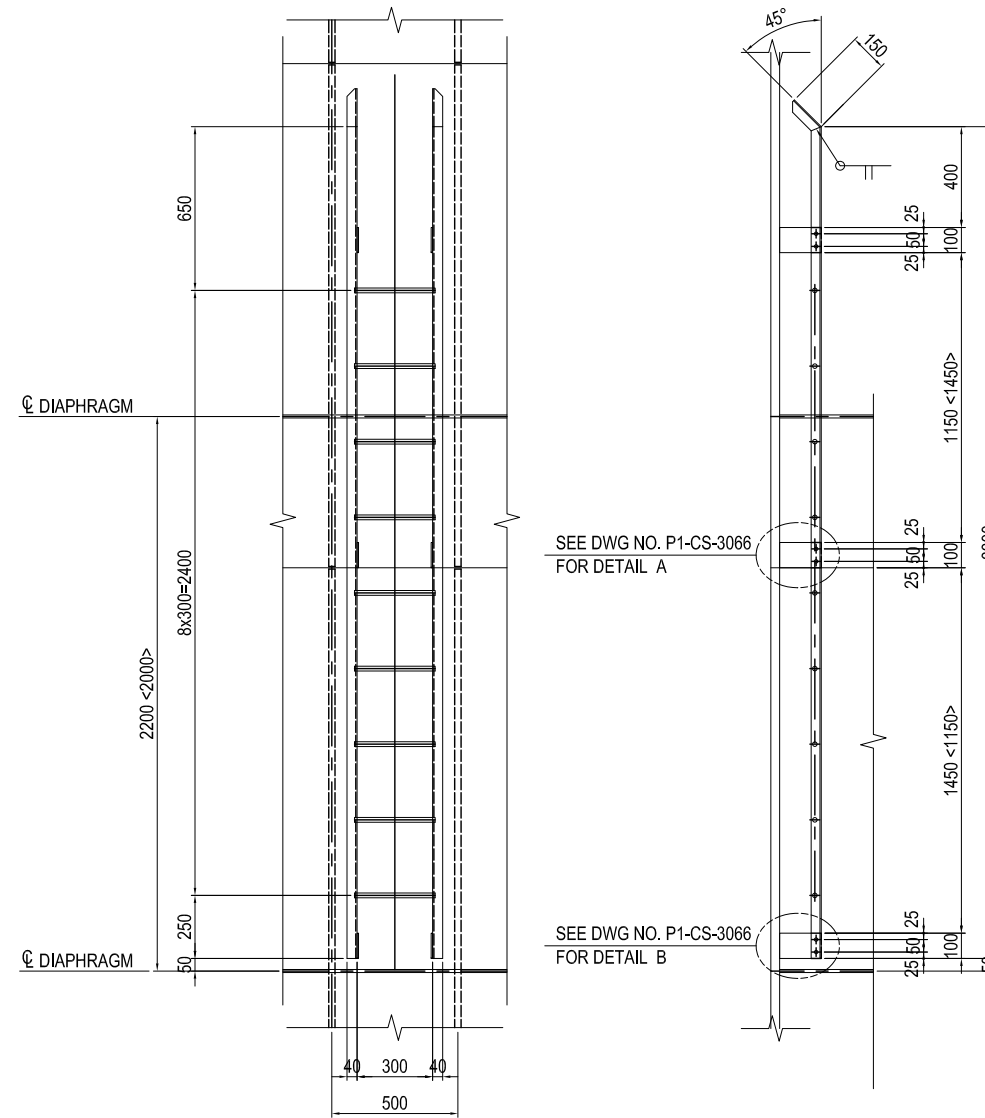
(Q'ty=10)
2-L 40x40x5x3900(SS400)
2-L 40x40x5x150(SS400)
11-RB Φ 19x320(SS400)
6-PL 100x9x165(SS400)
12-B.N M12x35(1-W,1-Unut)(SS400)

< LR-4 >

(Q'ty=1)
2-L 40x40x5x3900(SS400)
2-L 40x40x5x150(SS400)
11-RB Φ 19x320(SS400)
4-PL 100x9x165(SS400)
2-PL 100x9x160(SS400)
12-B.N M12x35(1-W)(SS400)

LADDER DETAIL

LL-7 - LL-9 & LL-12
LR-6 - LR-9 & LR-12
< LL-10, LL-11 & LL-13 - LL-17 >
< LR-10, LR-11 & LR-13 - LR-17 >



SEE DWG NO. P1-CS-3066 FOR DETAIL A

SEE DWG NO. P1-CS-3066 FOR DETAIL B

(Q'ty=9 <14 >)
2-L 40x40x5x3300(SS400)
2-L 40x40x5x150(SS400)
9-RB Φ 19x320(SS400)
6-PL 100x9x165(SS400)
12-B.N M12x35(1-W,1-Unut)(SS400)

NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-3063.
- 2 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 3 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

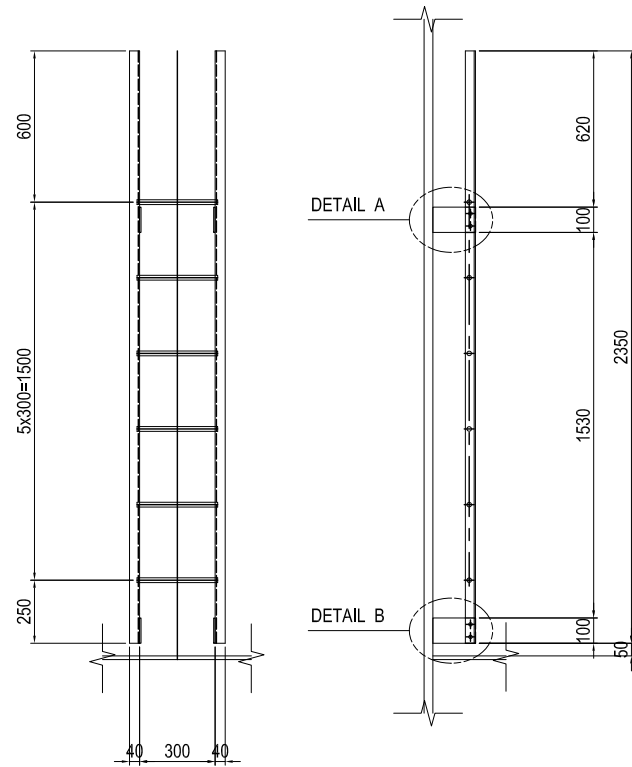
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY jica JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE LADDER (2)	PACKAGE 1 DWG No. P1-CS-3065	
				PREPARED BY	T.TOMODA	友田 智雄			27. Nov.2017
				CHECKED BY	T. HAYAKAWA	平川 知平			28. Nov.2017
				APPROVED BY	Y. SANO	佐野 祐一			29. Nov.2017

LADDER (3)

S=1:30

LADDER DETAIL

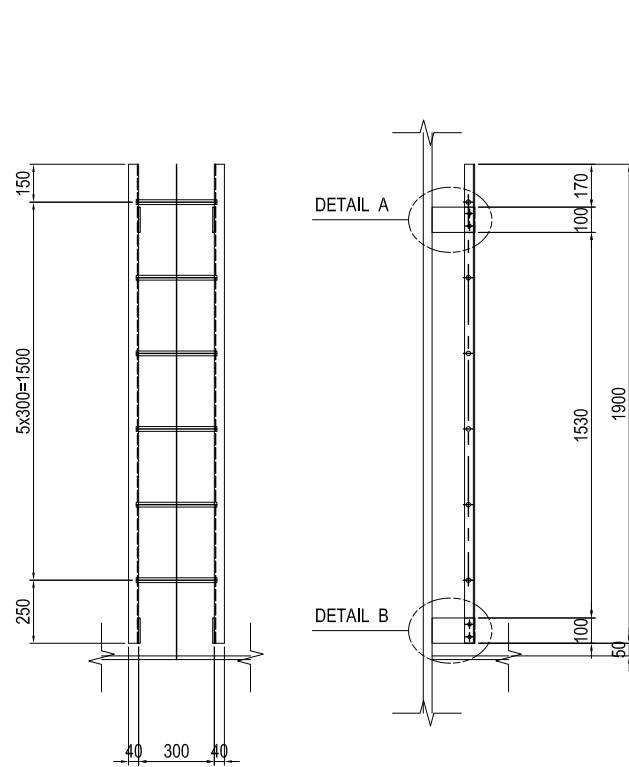
(LH-1)



- (Qty=2)
 2-L 40x40x5x2350(SS400)
 6-RB Φ 19x320(SS400)
 4-PL 100x9x165(SS400)
 8-B.N M12x35(1-W,1-UNut)(SS400)

LADDER DETAIL

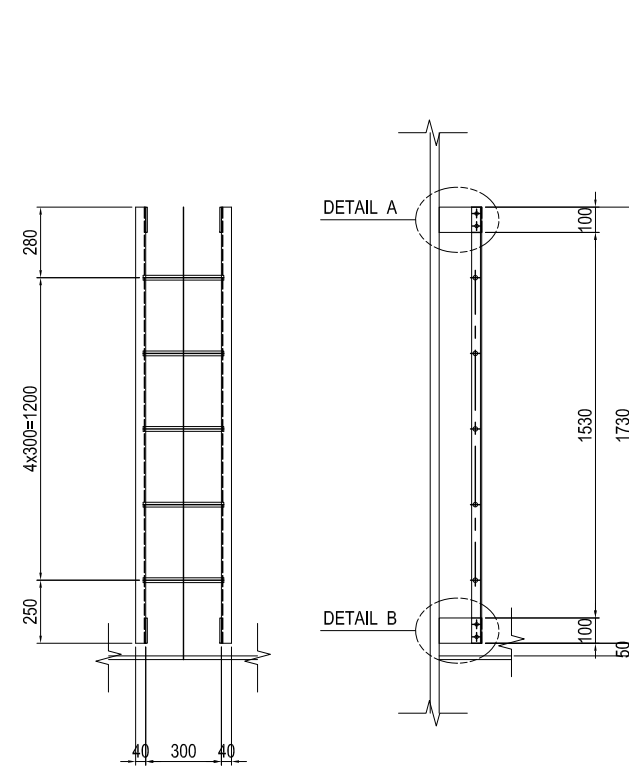
(LH-2)



- (Qty=6)
 2-L 40x40x5x1900(SS400)
 6-RB Φ 19x320(SS400)
 4-PL 100x9x165(SS400)
 8-B.N M12x35(1-W,1-UNut)(SS400)

LADDER DETAIL

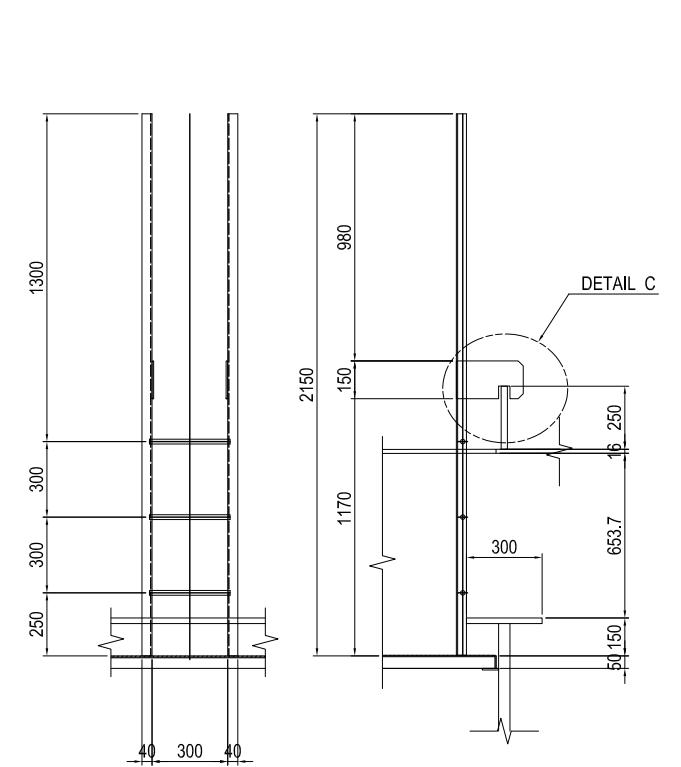
(LH-3)



- (Qty=1)
 2-L 40x40x5x1730(SS400)
 5-RB Φ 19x320(SS400)
 4-PL 100x9x165(SS400)
 8-B.N M12x35(1-W,1-UNut)(SS400)

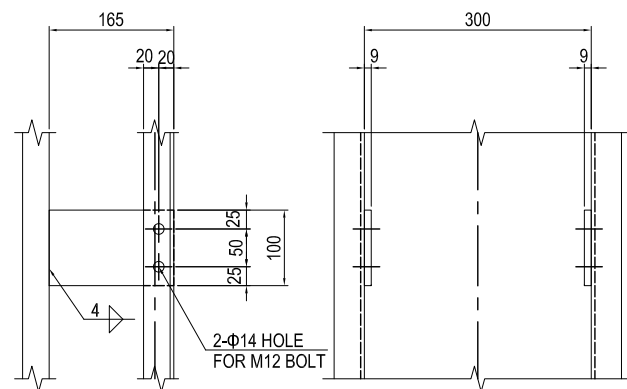
LADDER DETAIL

(LH-4)

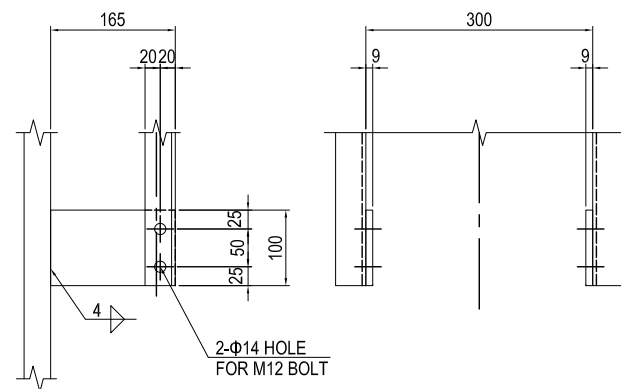


- (Qty=1)
 2-L 40x40x5x2150(SS400)
 3-RB Φ 19x320(SS400)
 2-PL 150x6x265(SS400)

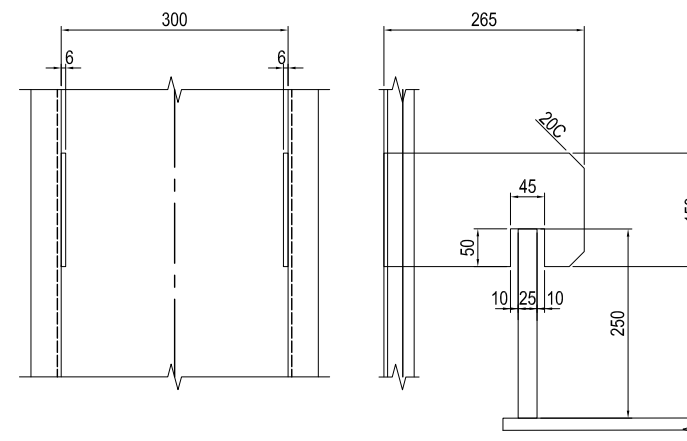
DETAIL A S=1:10



DETAIL B S=1:10



DETAIL C S=1:10



NOTES:

- THIS DWG WORKS WITH DWG NO. P1-CS-3063.
- HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

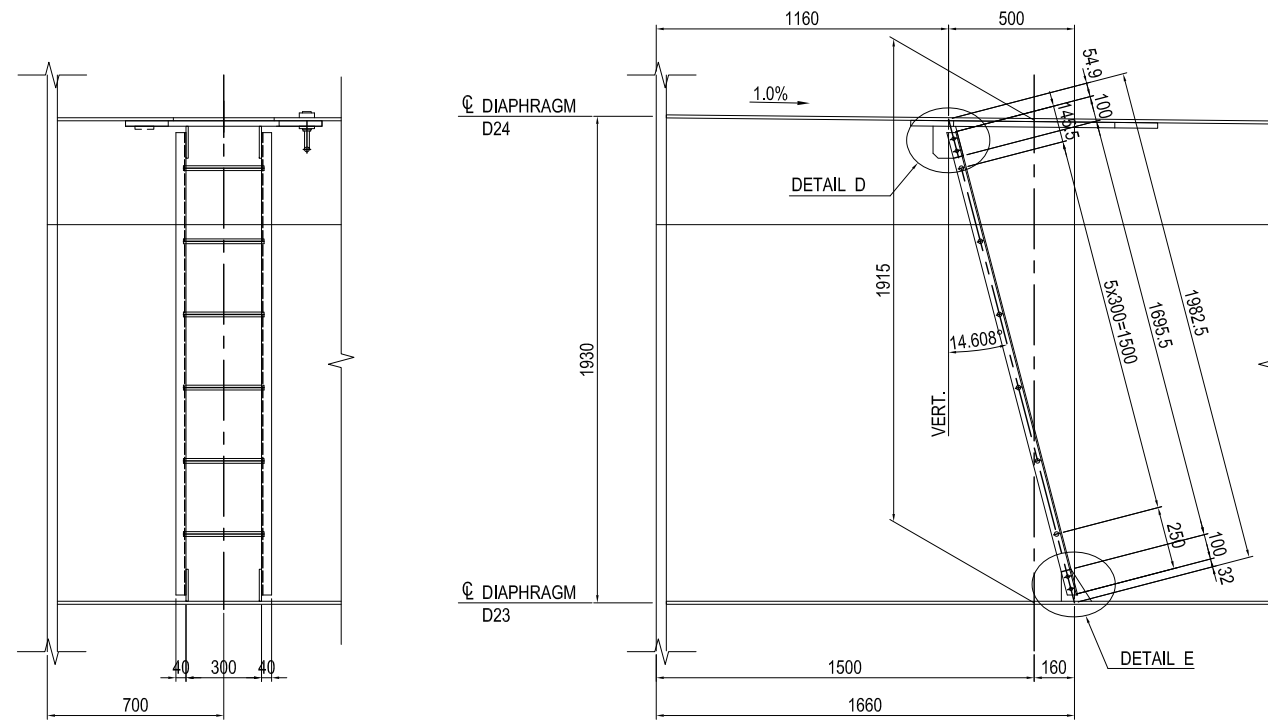
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE LADDER (3)	PACKAGE 1 DWG No. P1-CS-3066	
				PREPARED BY	T.TOMODA				27. Nov.2017
				CHECKED BY	T. HAYAKAWA				28. Nov.2017
				APPROVED BY	Y. SANO				29. Nov.2017

LADDER (4)

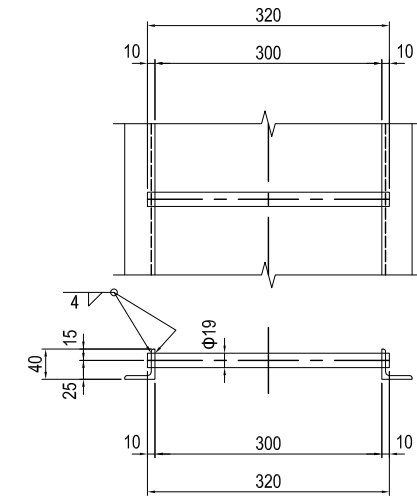
S=1:30

LADDER DETAIL

LR-18

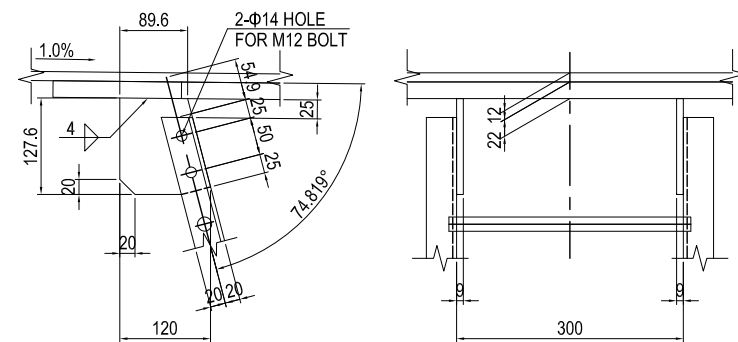


LADDER STEP DETAIL S=1:10

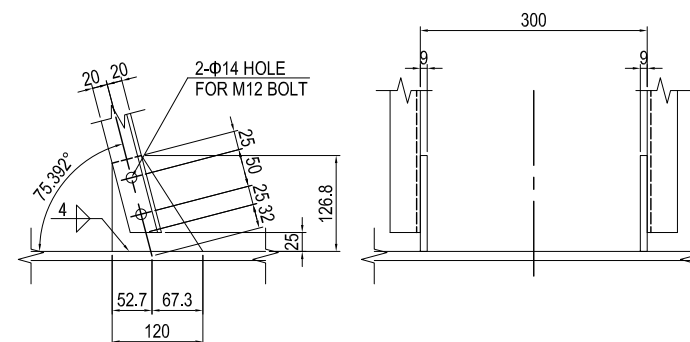


- (Q'ty=1)
 2-L 40x40x5x1906(SS400)
 6-RB Φ 19x320(SS400)
 2-PL 120x9x128(SS400)
 2-PL 120x9x127(SS400)
 8-B,N M12x35(1-W,1-UNut)(SS400)

DETAIL D S=1:10



DETAIL E S=1:10

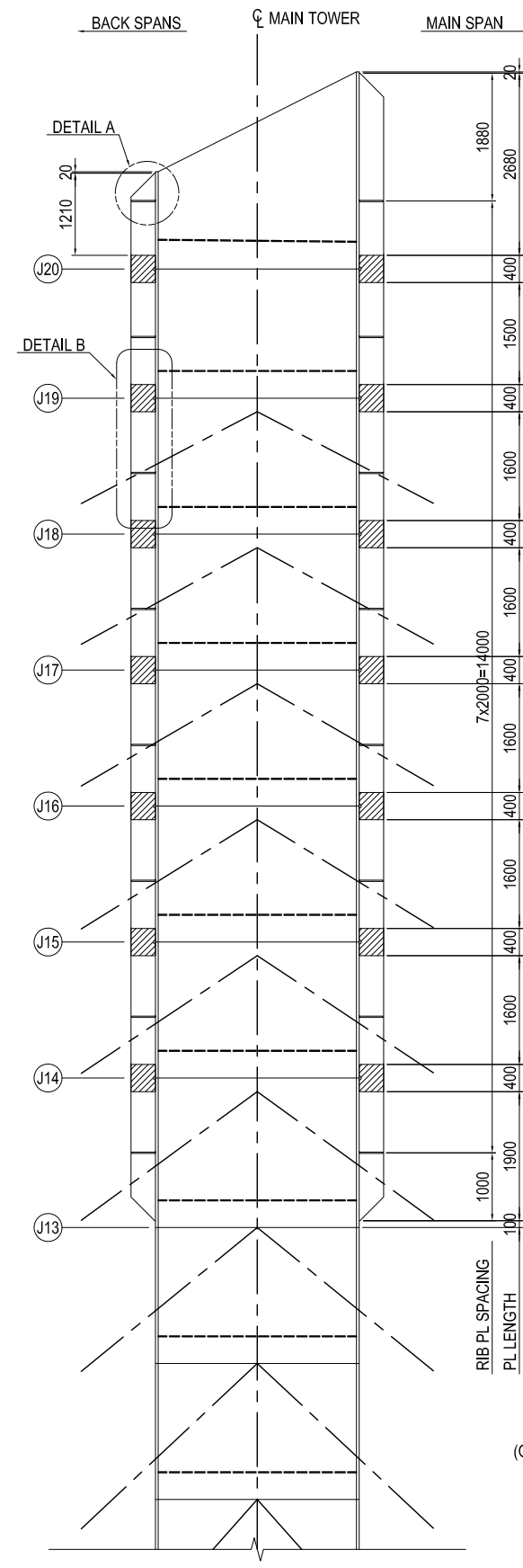


NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-3063.
- 2 - HOT-DIP GALVANIZED COATING OVER 550g/m², 350g/m² (FOR BOLT, WASHER & NUT AND MEMBERS WITH A THICKNESS OF LESS THAN 3.2mm)
- 3 - A STEEL MEMBER WHICH IS WELDED TO GIRDER OR TOWER SHALL BE PAINTED (NOT GALVANIZED COATING).

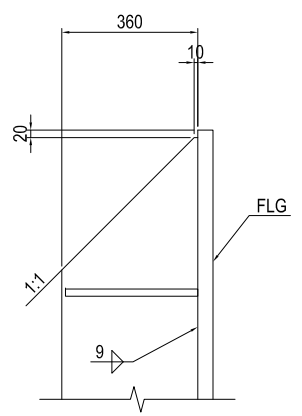
PROJECT NAME	FINANCED BY	COUNTERPART	JICA STUDY TEAM	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE	
DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO., LTD. NIPPON ENGINEERING CONSULTANTS CO., LTD.	PREPARED BY CHECKED BY APPROVED BY	T.TOMODA T. HAYAKAWA Y. SANO	 	27. Nov.2017 28. Nov.2017 29. Nov.2017	LADDER (4)	1 DWG No. P1-CS-3067

AERODYNAMIC DEVICE S=1:100

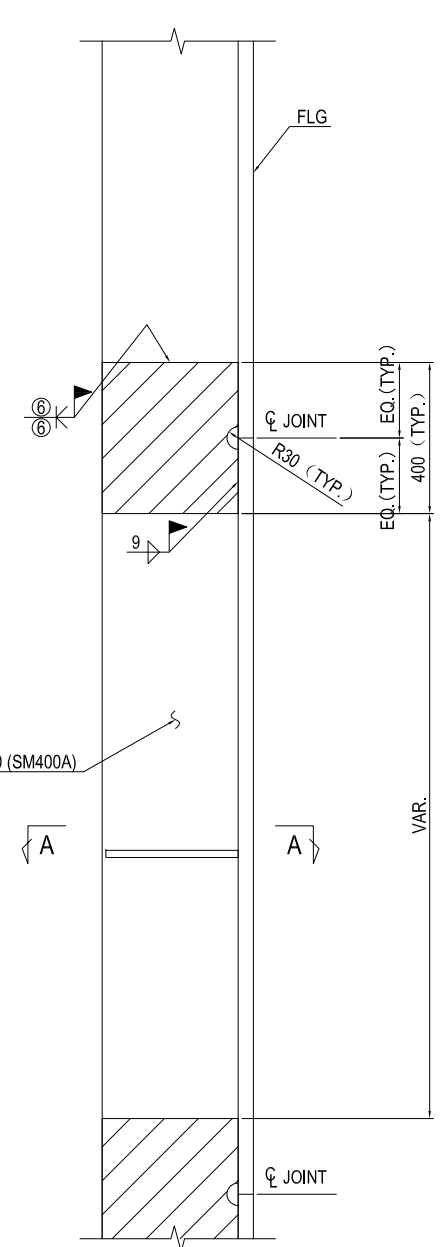


- (Q'ty=2)
 2-PL 360x30x1900(SM400A)
 10-PL 360x30x1600(SM400A)
 2-PL 360x30x1500(SM400A)
 1-PL 360x30x2680(SM400A)
 1-PL 360x30x1210(SM400A)
 14-PL 360x30x 400(SM400A)

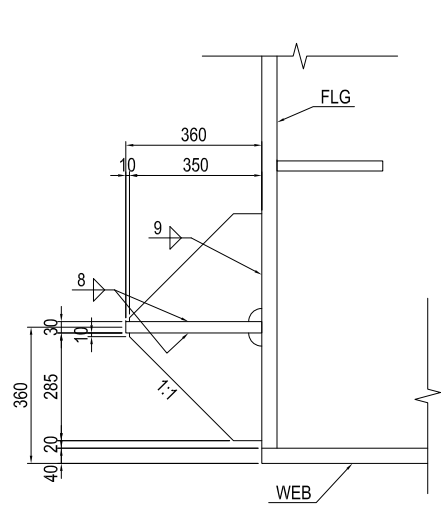
DETAIL A S=1:20



DETAIL B S=1:20



SECTION A-A S=1:20



NOTES:

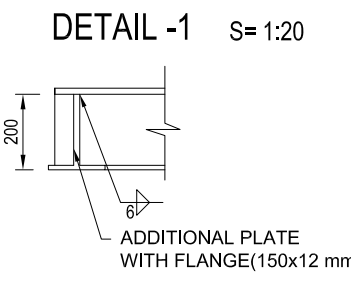
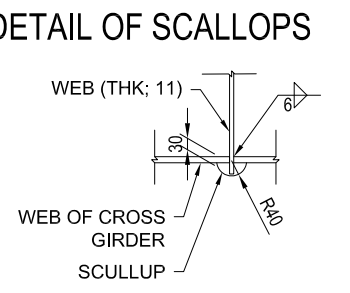
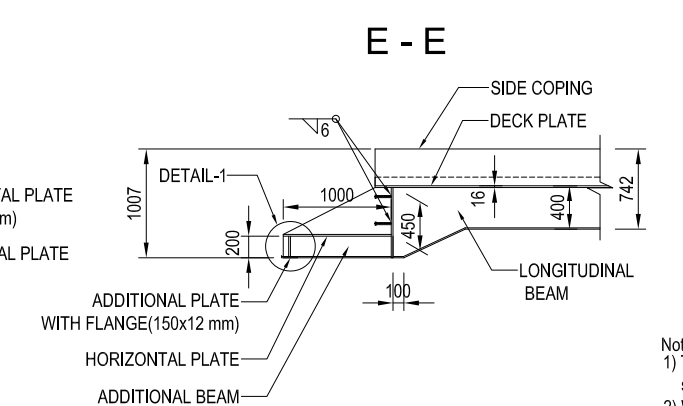
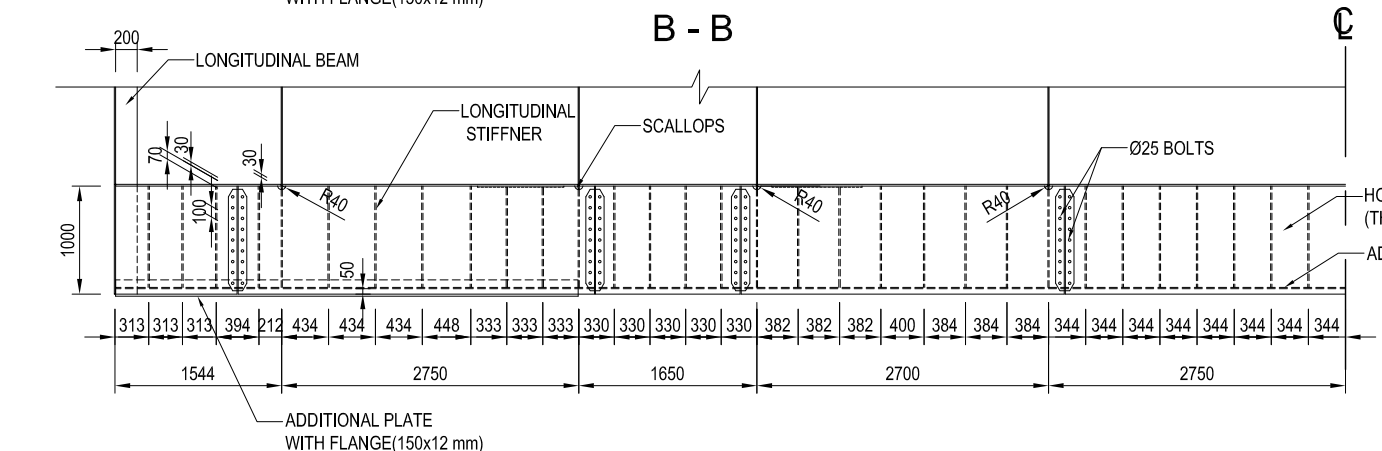
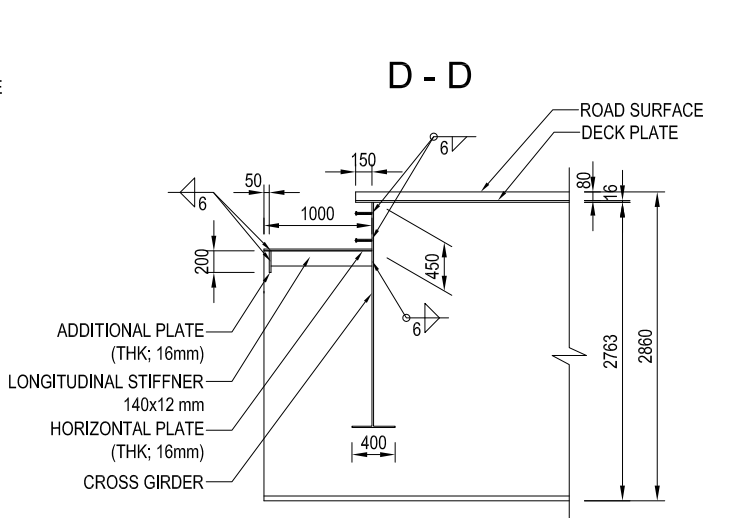
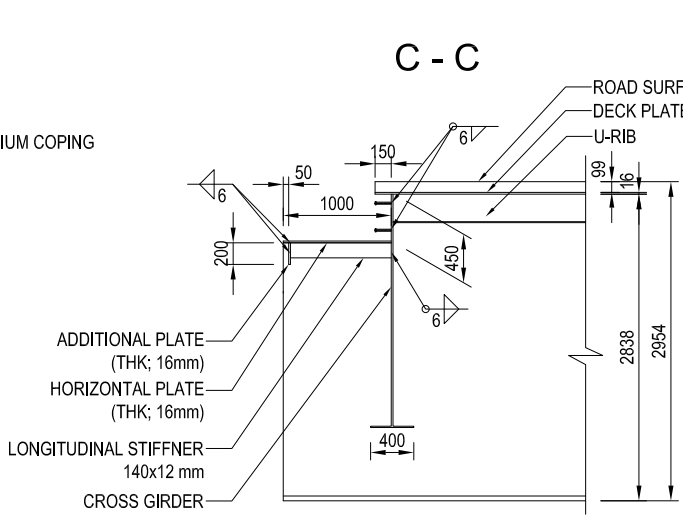
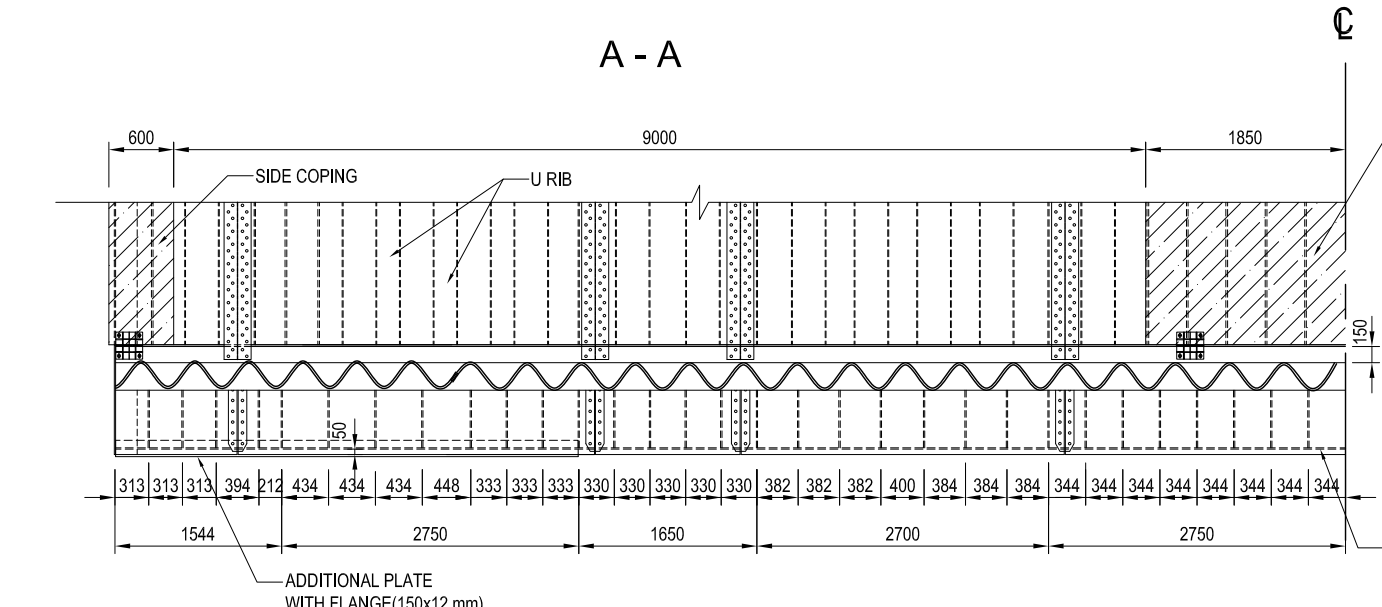
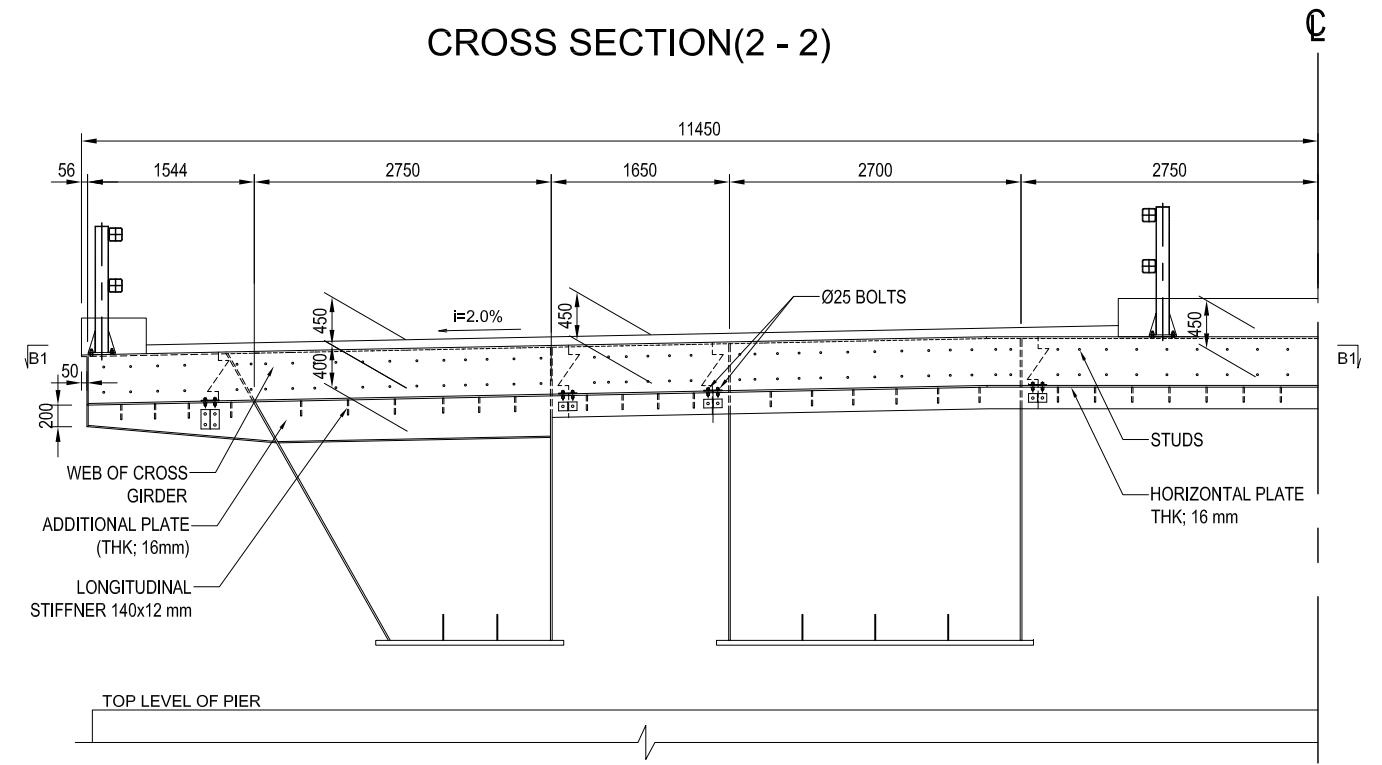
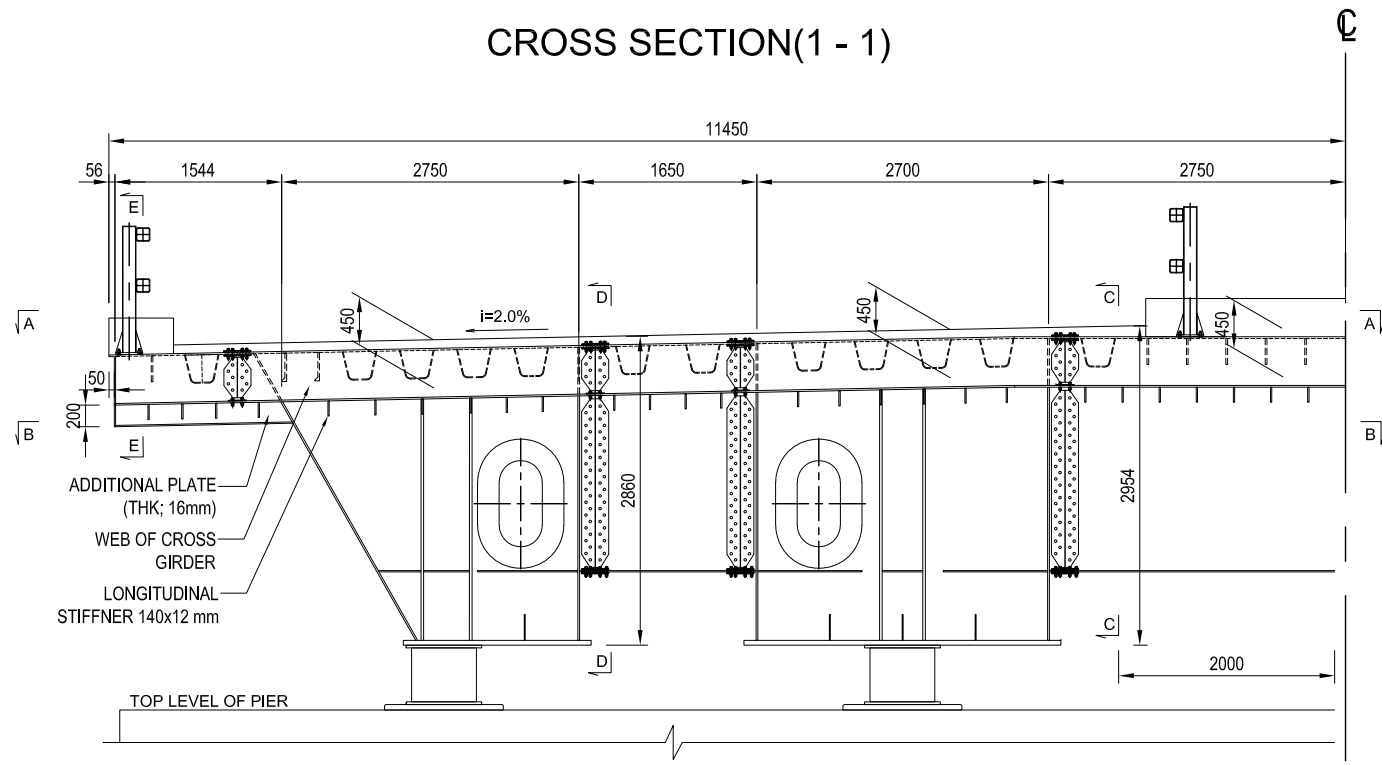
1- LENGTH OF THE ERECTION WELD PLATE () SHALL BE ADJUSTED DEPEND ON THE TOWER WELDING.

LEGENDS:

: ERECTION WELD

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;"> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> <tr> <td>PREPARED BY</td> <td>S.TOKUMARU</td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>29. Nov.2017</td> </tr> </table>	NAME	SIGNATURE	DATE	PREPARED BY	S.TOKUMARU	27. Nov.2017	CHECKED BY	T. HAYAKAWA	28. Nov.2017	APPROVED BY	Y. SANO	29. Nov.2017	DRAWING TITLE <h2 style="text-align: center;">AERODYNAMIC DEVICE</h2>	PACKAGE 1 DWG No. P1-CS-3068
NAME	SIGNATURE	DATE																
PREPARED BY	S.TOKUMARU	27. Nov.2017																
CHECKED BY	T. HAYAKAWA	28. Nov.2017																
APPROVED BY	Y. SANO	29. Nov.2017																

(REFERENCE) DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT(P13) (1) S= 1:70

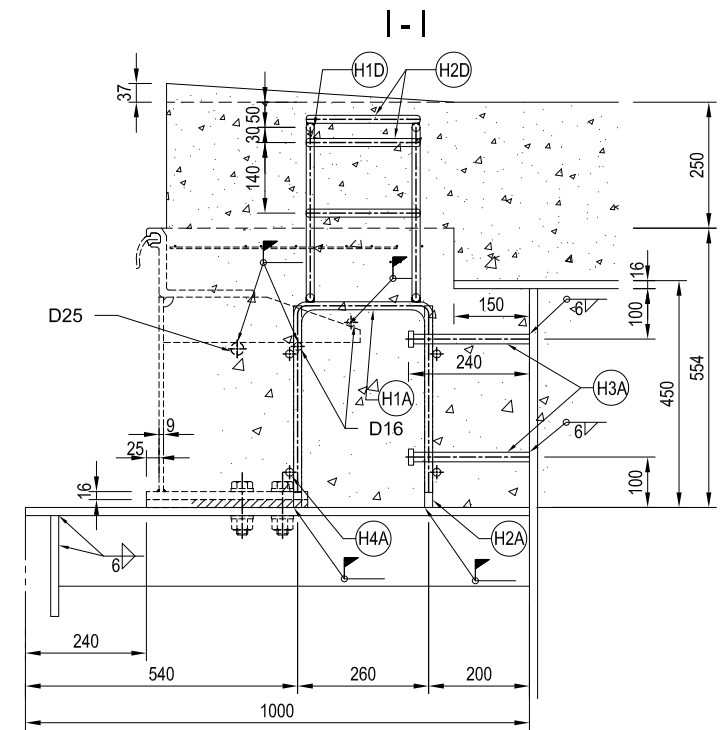
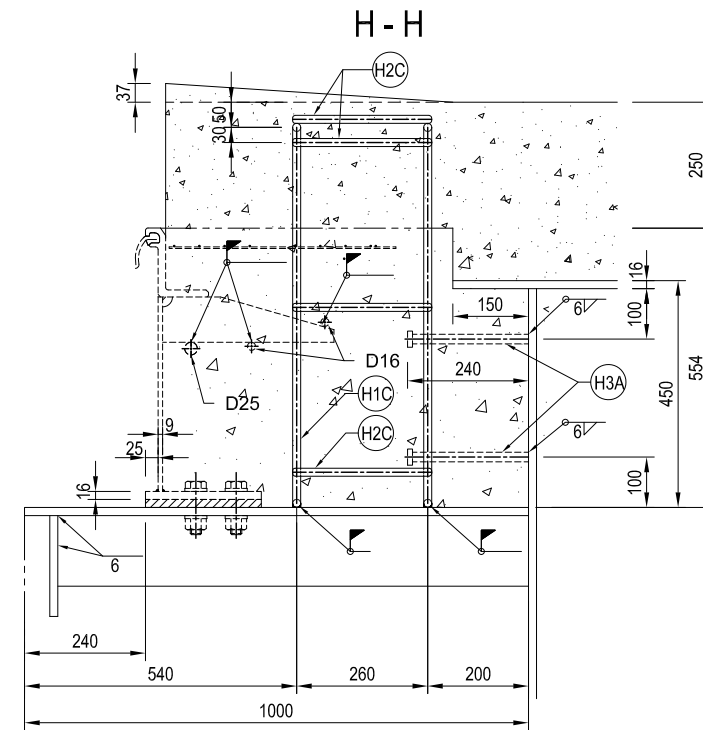
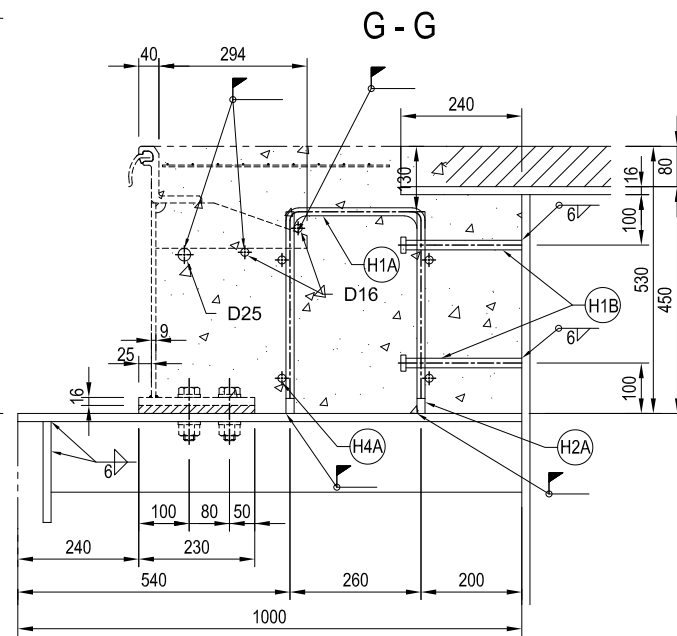
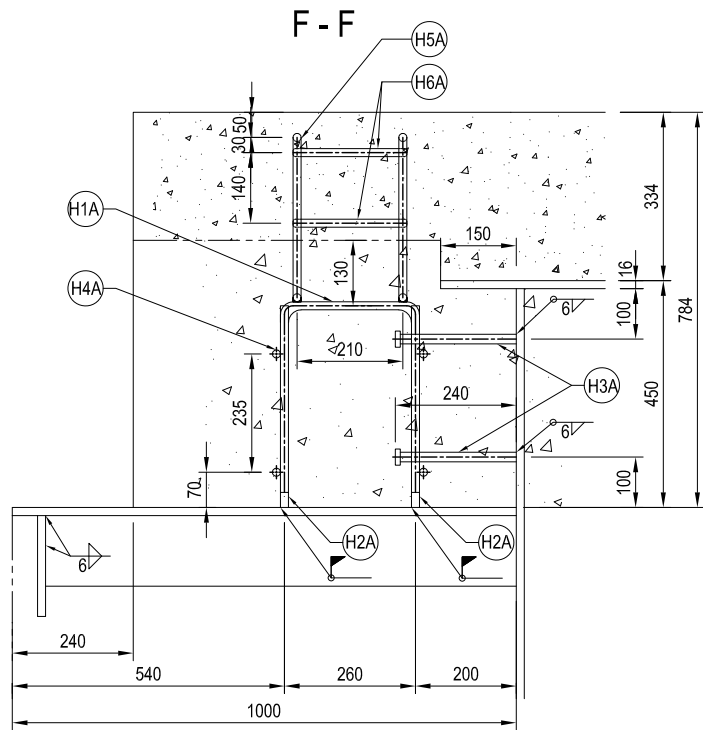
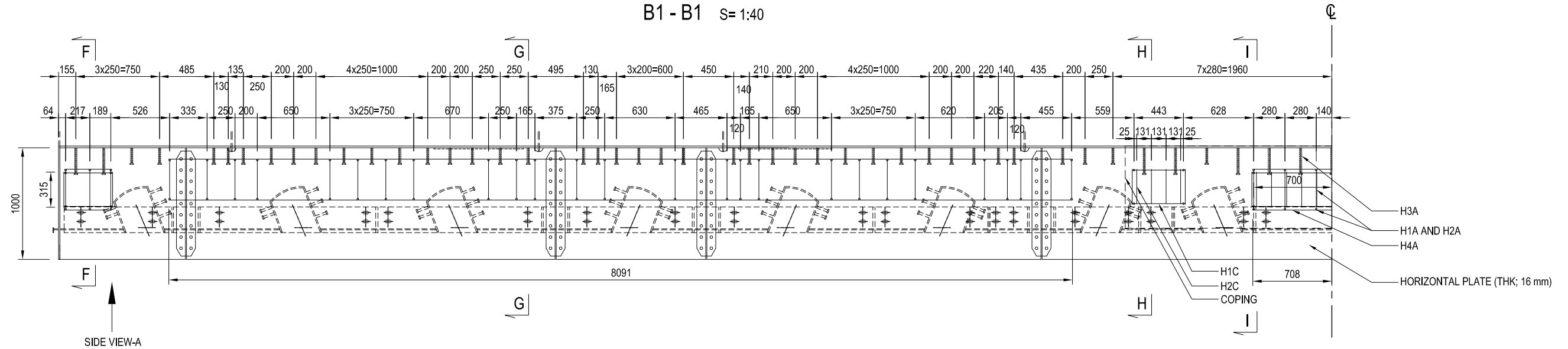


Notes:
 1) This Drawing of detail of steel girder end for expansion joint P13 is prepared based on the type of expansion joint specified in Package-1 Drawings.
 2) Work demarcation between Package-1 and Package-2 shall be referred to the table in DWG.No.P2-SB-3020.
 3) Design of the end girder shall be modified accordingly if the type of expansion joint of P13 might be changed.

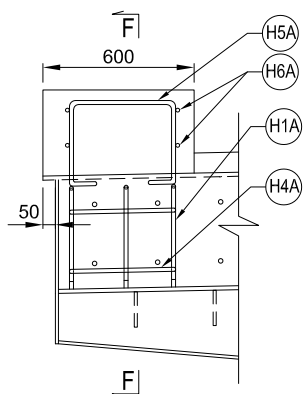
PROJECT NAME DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT	FINANCED BY JAPAN INTERNATIONAL COOPERATION AGENCY	COUNTERPART REPUBLIC OF THE UNION OF MYANMAR MINISTRY OF CONSTRUCTION DEPARTMENT OF BRIDGE	JICA STUDY TEAM NIPPON KOEI CO., LTD. ORIENTAL CONSULTANTS GLOBAL CO., LTD. METROPOLITAN EXPRESSWAY COMPANY LIMITED CHODAI CO.,LTD. NIPPON ENGINEERING CONSULTANTS CO.,LTD.	NAME	SIGNATURE	DATE	DRAWING TITLE	PACKAGE	
				PREPARED BY	S. IMADA		27. Nov.2017	(REFERENCE) DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P13) (1)	1
				CHECKED BY	T. HAYAKAWA		28. Nov.2017		DWG No.
				APPROVED BY	Y. SANO		29. Nov.2017		P1-CS-3069

(REFERENCE) DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT(P13) (2) S= 1:15

B1 - B1 S= 1:40



SIDE VIEW-A S= 1:30

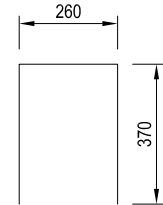


- Notes:
- 1) This Drawing of detail of steel girder end for expansion joint P13 is prepared based on the type of expansion joint specified in Package-1 Drawings.
 - 2) Work demarcation between Package-1 and Package-2 shall be referred to the table in DWG.No.P2-SB-3020.
 - 3) Design of the end girder shall be modified accordingly if the type of expansion joint of P13 might be changed.

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 PREPARED BY S. IMADA CHECKED BY T. HAYAKAWA APPROVED BY Y. SANO	SIGNATURE DATE 27. Nov.2017 28. Nov.2017 29. Nov.2017	DRAWING TITLE (REFERENCE) DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P13) (2)	PACKAGE 1 DWG No. P1-CS-3070
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(REFERENCE) DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT(P13) (3) S= 1:20

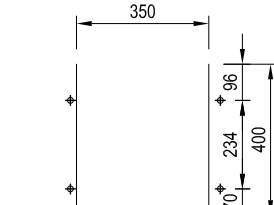
H1A 62-D16x1000L



NUMBER: 62

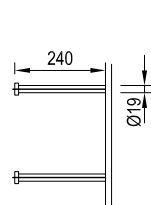
H2A 124-D16x400L

H4A 8-D16x420L, 8090L, 1415L



NUMBER: 124 (H2A)
NUMBER: 8 (H4A)

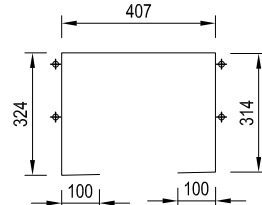
H3A 30-Ø19x240L



NUMBER: 30

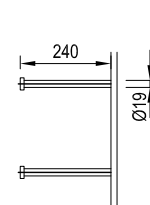
H5A 4-D16x1245L

H6A 8-D16x315L



NUMBER: 4 (H5A)
NUMBER: 8 (H6A)

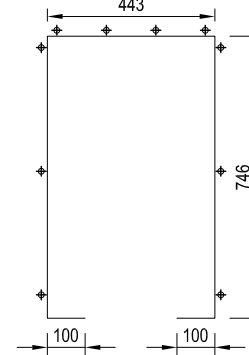
H1B 156-Ø19x240L



NUMBER: 156

H1C 4-D16x2135L

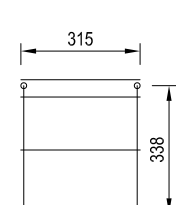
H2C 20-D16x315L



NUMBER: 4 (H1C)
NUMBER: 20 (H2C)

H1D 2-D16x2275L

H2D 11-D16x315L



NUMBER: 2 (H1D)
NUMBER: 11 (H2D)

	Length	Diameter	NO.
H1A	1000	D16	62
H2A	400	D16	124
H3A	240	Ø19	30
H4A	420	D16	8
	8090	D16	8
	1415	D16	8
H5A	1245	D16	4
H6A	315	D16	8
H1B	240	Ø19	156
H1C	2135	D16	4
H2C	315	D16	20
H1D	2275	D16	2
H2D	315	D16	11

MATERIAL LIST

No.	Item	Size	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight (kg/m ³)	Weight (kg/pce)	Number	Weight(kg)	Remarks
1.	Horizontal Plate	1000x22779.32x16 mm	SM400	1000	22779.32	16	7850	2861.08	1	2861.08	*
2.	Additional Plate	200x22779.32x16 mm	SM400	200	22779.32	16	7850	572.22	1	572.22	*
	Sub-Total									3433.30	
3.	Longitudinal Stiffener(140x12)mm	140x934x12 mm	SM400	140	934	12	7850	12.32	63	776.01	*
4.	Flange of Additional Plate	150x4282.5x12 mm	SM400	150	4282.5	12	7850	60.51	2	121.02	*
	Sub-Total									897.03	
5.	Base Plate for Bolt	170x940x8 mm	SM400	170	940	8	7850	10.04	8	80.28	*
6.	25Ø Bolt	M25x80 mm	S10T	-	-	-	-	0.785	144	113.04	
7.	H1A	Ø16 mm	SD345	-	1000	-	1.58(kg/m)	1.58	62	97.96	
8.	H2A	Ø16 mm	SD345	-	400	-	1.58(kg/m)	0.63	124	78.24	
9.	H4A	Ø16 mm	SD345	-	420	-	1.58(kg/m)	0.66	8	5.30	
		Ø16 mm	SD345	-	1415	-	1.58(kg/m)	2.23	8	17.86	
		Ø16 mm	SD345	-	8090	-	1.58(kg/m)	12.76	8	102.10	
10.	H5A	Ø16 mm	SD345	-	1245	-	1.58(kg/m)	1.96	4	7.86	
11.	H6A	Ø16 mm	SD345	-	315	-	1.58(kg/m)	0.50	8	3.98	
12.	H1C	Ø16 mm	SD345	-	2135	-	1.58(kg/m)	3.37	4	13.47	
13.	H2C	Ø16 mm	SD345	-	315	-	1.58(kg/m)	0.50	20	9.94	
14.	H1D	Ø16 mm	SD345	-	2275	-	1.58(kg/m)	3.59	2	7.18	
15.	H2D	Ø16 mm	SD345	-	315	-	1.58(kg/m)	0.50	11	5.47	
	Sub-Total									349.34	
16.	H3A(Stud Bolt)	Ø19 mm	JIS B 1198	-	240	-	-	0.092	30	2.76	*
17.	H1B(Stud Bolt)	Ø19 mm	JIS B 1198	-	240	-	-	0.092	156	14.35	*
18.	Nut for Stud Bolt	Ø19 mm - Nut	JIS B 1181	-	-	-	-	0.092	186	17.11	
19.	Concrete@(F-F)	-	24MPa	600	570	334	2400	274.15	2	548.29	
		-	24MPa	600	720	500	2400	518.40	2	1036.80	
	Concrete@(G-G)	-	24MPa	8950	735	530	2400	8367.53	2	16735.07	
	Concrete@(H-H)	-	24MPa	1850	570	250, 287	2400	679.52	2	1359.04	
		-	24MPa	1850	735	555	2400	1811.19	2	3622.37	
	Sub-Total									23301.58	
	Total									28061.53	

Note: The designation "*" in remarks shows that those materials shall be included in the scope of fabrication of steel box girder in Package-2. Other items shall be scope of Package-1.

Notes:
1) This Drawing of detail of steel girder end for expansion joint P13 is prepared based on the type of expansion joint specified in Package-1 Drawings.
2) Work demarcation between Package-1 and Package-2 shall be referred to the table in DWG.No.P2-SB-3020.
3) Design of the end girder shall be modified accordingly if the type of expansion joint of P13 might be changed.

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) DETAIL OF STEEL GIRDER END FOR EXPANSION JOINT (P13) (3)	PACKAGE
				PREPARED BY	S. IMADA	27. Nov.2017		1
				CHECKED BY	T. HAYAKAWA	28. Nov.2017		DWG No.
				APPROVED BY	Y. SANO	29. Nov.2017	P1-CS-3071	

(REFERENCE) QUANTITY TABLE OF SUPERSTRUCTURE P10-P13

NOT TO SCALE

QUANTITY TABLE OF MAIN GIRDER

Category	Material	Main Girder	Main Girder Trans. Joint	Main Girder Long. Joint	Main Girder Hor. Joint
PL	SM570	13888			
	SM520C-H	40352			
	SM490YB	277800			11146
	SM490YA	1586165	86666	68056	
	SM490C-H	9138			
	SM400C-H	13760			
	SM400A	2004002			
	SS400	17182	61382	30240	
	FB	SS400	1936		
	CH	SS400	208		
U	SM490YA	11568			
	SM400A	472238			
STK	STK400	5336			
RB	SS400	364	312		
Processed Weight Total		4453937	148360	98296	11146
BN	SS400	8	312		
	SUS304	176			
BOLT	SS400	392			
NUT	SS400	191			
WPIN	SUS304	8			
INUT	SS400	784			
Parts Weight Total		1559	312		
Total		4455496	148672	98296	11146

Category	Material	Main Girder	Main Girder Trans. Joint	Main Girder Long. Joint	Main Girder Hor. Joint
TCB	S10T	976	57260	40988	4414
HTB	F10T		432		
Total		976	57692	40988	4414

QUANTITY TABLE OF MAIN GIRDER ACCESSORIES

Category	Material	Rocking Bearing	Anchor Bolt	Anchor Frame	Pedestal Frame	Drainage System	Slab Drain	Cable Rack	Water Pipe	Fairing	Rail	Inspection Way	
PL	SM570	3676											
	SM520C-H				13966								
	SM490YB	4992		2904	43604								
	SM490YA			1728	656								
	SM400A	352		17006	6830	10780	102	1094	3248	95346	3794	5806	
	SS400		20	564	288					3136			
	FB	SS400									856		3140
	L	SS400			1764		420	102	485	4872			7350
	H	SS400							1358	4544			
	QH	SS400											12586
STK	STK400					1260							
RB	SS400											822	
	SD295					1260							
EXP	XG11											7608	
CHPL	SS400											16	
Processed Weight Total		9020	20	23966	65344	13720	408	2937	15900	96202	3794	37328	
I	SS400											69976	
	ANCB	S35C		13900									
	S45CN		2580										
BN	SS400						102	194	812			758	
NUT	S35C		1724	104									
	S45CN		304										
WASH	SS400						102						
LIB	SS400						102						
PLWS	SS400		2148										
Chain	SUS304					140							
Parts Weight Total			20656	104	140	308	194	812			69976	758	
Total		9020	20676	23966	65448	13860	714	3131	16812	96202	7370	38086	

Category	Material	Anchor Frame	Rail
TCB	S10T	204	310
Total		204	310

QUANTITY TABLE OF MAIN GIRDER PAINTING AREA

Items		Total Area	
Shop Painting	General Outer Surface	22135.4	
	General Outer Surface Additional	641.1	
	General Inner Surface	42466.7	
	Steel Deck Slab Upper Surface	9614.8	
	Friction Joint Surface	5960.3	
Site Painting	Splice	General Outer Surface	962.1
		General Outer Surface Additional	23.6
		General Inner Surface	1955.9
		Steel Deck Slab Upper Surface	0.8
		Friction Joint Surface	5960.3
	Bolting	General Outer Surface	228.8
		General Outer Surface Additional	7.3
		General Inner Surface	751.3
		Steel Deck Slab Upper Surface	0.1
		Friction Joint Surface	5960.3
Welding	General Outer Surface	623.1	
	General Outer Surface Additional	4.8	
	General Inner Surface	677.4	
Steel Deck Slab Upper Surface	981.9		
Friction Joint Surface		5960.3	

QUANTITY TABLE OF OTHER ITEMS

Category	Items	Spec	Unit	Qty	
Cable Stay	PC strands(7S15.6)		ton	224.4	
	Material	HDPE duct	φ 180	m	952.8
			φ 250	m	1785.4
	Adjustmentable Anchorage	37H (Girder side)		nos	20
		70H (Girder side)		nos	20
	Fixed Anchorage	37H (Tower side)		nos	20
		70H (Tower side)		nos	20
	Sliding Tube	37H		nos	20
		70H		nos	20
	HDPE Joint Tube	37H		nos	20
70H			nos	20	
Support Ring	37H		nos	20	
	70H		nos	20	
Positioning Tube	37H		nos	20	
	70H		nos	20	
Protection Tube	37H		nos	20	
	70H		nos	20	
Buffer Device	37H (Girder side)		nos	20	
	70H (Girder side)		nos	20	
	37H (Tower side)		nos	20	
	70H (Tower side)		nos	20	
Vibration Control Device	37H		set	20	
	70H		set	20	
Accessory & Miscellaneous Work	Horizontal Bearing		nos	2	
	Rocking Bearing		nos	4	
	Pivot Bearing		nos	2	
	Pin Roller Bearing		nos	4	
	Bridge Surface Work	Asphalt Pavement		m ²	8028
		Concrete for Median		m ³	89.2
		Stud for Median *	SD345	kg	334
		Welded Wire Mesh for Median		m ²	1115
		Water-Resistant Coating for Road Way		m ²	8028
	Water-Resistant Coating for Median		m ²	1115	
Wheel Guard & Median Strip	Concrete	φ 24N/mm ²	m ³	354.5	
Reinforcing Bar	SD345	kg	21815		
Stud *	SD345	kg	5237		
Drainage Pipe	STKR400	kg	4068		
Composite Barrier & Barrier For Carriage Way	Composite Barrier		m	895	
	Reinforcing Bar for Composite Barrier	SD345	kg	5567	
	Mortar for Composite Barrier		m ³	4.76	
	Barrier For Carriage Way		m	895	
Reinforcing Bar for Barrier For Carriage Way	SD345	kg	5567		
Mortar for Barrier For Carriage Way		m ³	4.76		
Expansion Joint	Module Type		m	45.8	
	Reinforcing Bar	SD345	kg	658	
	Reinforcing Bar *	SD345	kg	142	
	Stud *	SD345	kg	142	
	Re-bar for Steel Box Girder at P13	SD345	kg	349.34	
Manhole	Girder_Polychloroprene		nos	6	
	Tower_Polychloroprene		nos	4	
Drainage	Bridge Floor Drainage		nos	102	

*: BE SURE TO MAKE PREPARATION FOR RE-BAR AND STUDS AT TIME OF SUPERSTRUCTURE WORK.

QUANTITY TABLE OF MAIN TOWER

Category	Material	Tower	Tower Joints
PL	SM490YB	526076	1240
	SM490YA	34838	16216
	SM400A	3722	
	SS400	13594	10
PLS	SUS304	16	
FB	SS400	24	
STK	STK400	2680	
SGP	SGP	8	
RB	SS400	10	
	SUS304	8	
Processed Weight Total		580976	17466
BN	SS400	10	
BOLT	SS400	4	
Parts Weight Total		14	
Total		580990	17466

Category	Material	Tower Joints
TCB	S10T	6230

QUANTITY TABLE OF MAIN TOWER ACCESSORIES

Category	Material	Tower Ladder	Aerodynamic Device
PL	SM400A		12870
	SS400	582	
FB	SS400	58	
L	SS400	1704	
RB	SS400	536	
EXP	XG11	36	
Processed Weight Total		2916	12870
BN	SS400	88	
Parts Weight Total		88	
Total		3004	12870

QUANTITY TABLE OF MAIN TOWER PAINTING AREA

Items		Total Area	
Shop Painting	General Outer Surface	1380.5	
	General Outer Surface Additional		
	General Inner Surface	3158.2	
	Steel Deck Slab Upper Surface		
	Friction Joint Surface		
Site Painting	Splice	General Outer Surface	
		General Outer Surface Additional	
		General Inner Surface	139.2
		Steel Deck Slab Upper Surface	
		Friction Joint Surface	
	Bolting	General Outer Surface	
		General Outer Surface Additional	
		General Inner Surface	52.4
		Steel Deck Slab Upper Surface	
		Friction Joint Surface	
Welding	General Outer Surface	44.0	
	General Outer Surface Additional		
	General Inner Surface	52.9	
Steel Deck Slab Upper Surface			
Friction Joint Surface		278.3	

(REFERENCE) QUANTITY TABLE OF SUBSTRUCTURE P10-P13

NOT TO SCALE

QUANTITY TABLE OF RC PIER COLUMN AND BEAM STRUCTURE

Structure Component	Type of Works	Specification	Classification	Unit	Quantities
					Total of P10-P13
Pier Column and Beam (Reinforced Concrete Structure)	Concrete	σck=30N/mm2		m3	7,799.0
	Re-bar	SD345	D 13	kg	—
			D16 ~ D25	"	332,159
			D29 ~ D32	"	146,077
			D 35	"	—
			D 38	"	—
			D 51	"	176,674
			Total	"	654,910
	Mechanical Splice	SD345	D 35	Point	—
			D 38	"	—
			D 51	"	824
			Total	"	824

QUANTITY TABLE OF STEEL PILE SHEET PILE FOUNDATION

Structure Component	Item	Classification	Unit	Quantities	Note			
				Total of P10-P13				
Steel Pipe Sheet Pile Foundation	Steel Sheet Pile Well and Bulkhead Steel Sheet Pile Well	Pile Number		Nos.	152	Outside Steel Pipe Well		
		Total		"	32	Diaphragm Steel Sheet Pipe Wall		
		Total Pile Length		m	184			
		Total Number	Weight of Steel Pipe Section	φ1200	t=14mm	t	3,506.108	SKY400
					t=14mm	"	677.304	SKY490
					t=16mm	"	1,083.440	SKY490
				φ165.2	t=11mm	"	1,040.328	STK400
					Tip Reinforcing Band	PL t=9mm	t	14.720
			Weight of Attachments	Member for Site Circumference Welding (Backing Ring · Stopper)	PL t=14mm	"	2.208	SS400
					PL t=16mm	"	—	SS400
				Sling	PL t=22mm	"	9.568	SM490A
				Interlocking Toe	PL t=12mm	Piece	376	SS400
				Combined Splice Pipe		Point	376	STK400
		Pre-cut		"	376			
Steel Pipe Sheet Pile Foundation	Excavation inside	Pile		m3	2,004.0			
		Pile Head		m3	309.9			
	Concrete Filling	Infilling Concrete		σck=18N/mm2	m3	1,618.4		
		Pile Head			m3	52.6		
	Cleaning inside Joint Pipe			m	10,359.0			
	Mortar filling inside Joint Pipe	σck=21N/mm2	Injected Length of Splice Mortar		m	9,868.9		
			Used Amount of Splice Mortar		m3	259.2		
	Sealing inside Joint Pipe	σck=0.2N/mm2	Length of Splice Water Stop Material		m	2,082.4		
			Used Amount of Splice Water Stop Material		m3	59.2		
			Water Stop Bag		m	4,164.8		
	Excavation inside Well			m3	7,967.7			
	Backfill Inside Well			m3	1,879.5			
	Footing Concrete		σck=24N/mm2	m3	3,697.2			
	Bottom Slab Concrete		σck=21N/mm2	m3	1,926.6			
	Spread Sand			m3	389.0			
	Pile Head Combination	Shear Connector	PL-32×16×3597		kg	924		
		Stopper	PL-25×9×50		"	16		
	Pile Head Re-bar	Weight	SD345	D 13	kg	1,884		
				D16 ~ D25	kg	2,786		
				D29 ~ D32	"	3,720		
				Total	"	8,390		
				Re-bar for Top Slab	Weight	SD345	D 13	kg
	D16 ~ D25	"	39,258					
	D29 ~ D32	"	17,344					
	D 35	"	28,528					
	D 38	"	62,904					
	D 51	"	276,724					
	Total	"	424,758					
	Mechanical Splice	SD345	D 35		Point	220		
			D 38		"	348		
D 51			"		1,072			
Connector (Welding of Dowel)	Block Number of Welding of Dowel		Stage	5,200				
	Mass of Welding of Dowel		kg	49,836				