

# DETAIL OF RUBBER BEARING(1) S=1:30

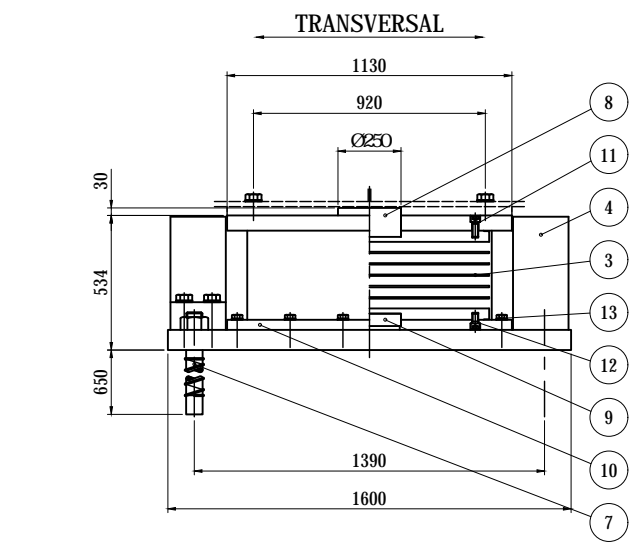
## DESIGN CRITERIA

| REACTION FORCE                             |                     |                       |
|--|---------------------|-----------------------|
| ALL REACTION FORCE                         | R                   | 3400 kN               |
| DEAD LOAD REACTION FORCE                   | Rd                  | 2100 kN               |
| LONGITUDINAL HORIZONTAL FORCE (EARTHQUAKE) | Rh1e                | 1500 kN               |
| TRANSVERSAL HORIZONTAL FORCE (EARTHQUAKE)  | Rh2e                | 600 kN                |
| UP LIFT FORCE (EARTHQUAKE)                 | V                   | 210 kN                |
| QUANTITY OF MOVE                           |                     |                       |
| MAXIMAL VALUE                              | UB                  | ±310 mm               |
| RUBBER BEARING                             |                     |                       |
| SHEAR MODULUS OF RIGIDITY                  | Ge                  | 1.2 N/mm <sup>2</sup> |
| BREAKING STRAIN                            | u                   | 500 %                 |
| DISPLACEMENT TEST                          | L                   | ±351 mm               |
| EQUIVALENT STIFFNESS                       | KB                  | 4.628 kN/mm           |
| ALLOWABLE SHEAR DISTORTION                 | s                   | 150 %                 |
| SECONDARY SHAPE FACTOR                     | S2                  | 4.06                  |
| ROTATION CHECK LOAD                        | R1                  | 2100 kN               |
| ROTATIONAL VALUE                           | r                   | 1.631 mm              |
| CHECK LOAD                                 | R1L                 | 700 kN                |
| COMPRESSED DISPLACEMENT OF CHECK LOAD      | cL                  | 0.710 mm              |
| SUPPORT CONDITION                          |                     |                       |
| LONGITUDINAL: ELASTICITY                   | TRANSVERSAL: FIXING |                       |

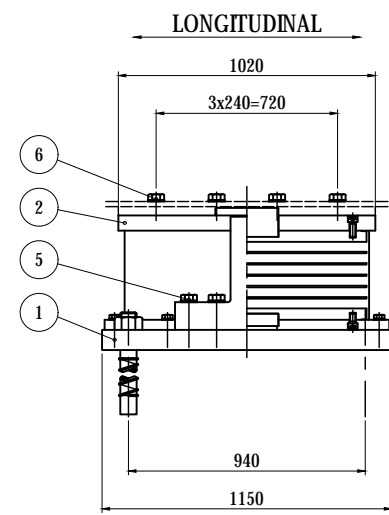
## MATERIALS

| NUMBER   | THE NAME OF AN ARTICLE        | MATERIAL        | NUMBER | MASS (Kg) | NOTES      |
|--|-------------------------------|-----------------|--------|-----------|------------|
| ①  | BASE PLATE                    | SM490A          | 1      | 1136.5    |            |
| ②  | TOP BEARING                   | SM490A          | 1      | 510.7     |            |
| ③  | RUBBER BEARING                | NR+SM490A+SS400 | 1      | 1086.0    |            |
| ④  | SIDE BLOCK                    | SM490A          | 2      | 353.1     |            |
| ⑤  | HEXAGON HEAD BOLT WITH WASHER |                 | 16     | 30.7      | JIS B 1180 |
| ⑥  | HEXAGON HEAD BOLT WITH WASHER |                 | 8      | 9.6       | JIS B 1180 |
| ⑦  | ANCHOR BOLT WITH NUT          | SS400           | 4      | 91.1      | JIS B 1181 |
| ⑧  | SHEAR KEY                     | SM490A          | 1      | 44.3      |            |
| ⑨  | SHEAR KEY                     | SM490A          | 1      | 18.9      |            |
| ⑩  | BOTTOM BEARING                | SM490A          | 1      | 377.7     |            |
| ⑪  | HEXAGON HOLE BOLT WITH WASHER |                 | 16     | 5.3       | JIS B 1176 |
| ⑫  | HEXAGON HOLE BOLT WITH WASHER |                 | 16     | 4.3       | JIS B 1176 |
| ⑬  | HEXAGON HEAD BOLT WITH WASHER |                 | 20     | 7.2       | JIS B 1180 |
| TOTAL WEIGHT   |                               |                 |        | 3675.4    | (kg)       |
| CORROSION PROOF FOR OUTSIDE PL   |                               |                 |        |           |            |
| HOT-DIP GALVANIZED COATING OVER 550g/m <sup>2</sup> , 350g/m <sup>2</sup> (FOR BOLT, WASHER & NUT) |                               |                 |        |           |            |

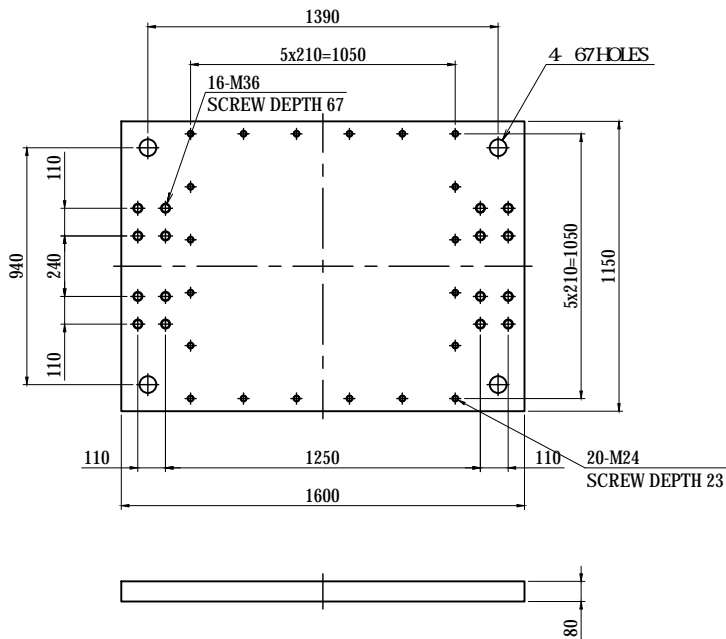
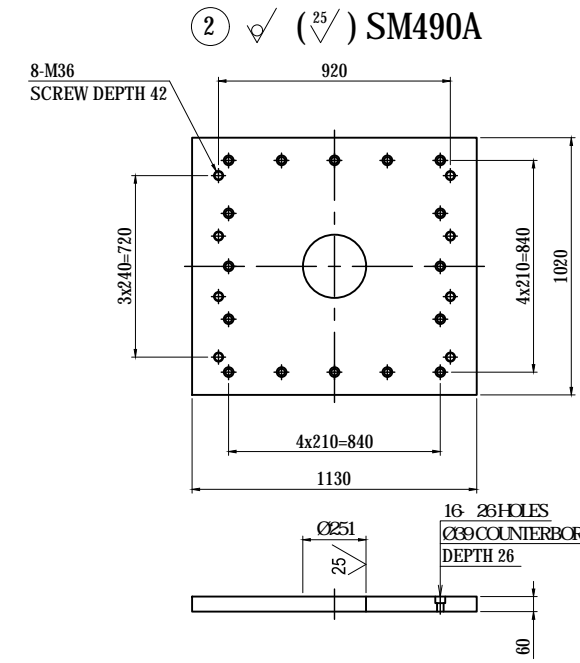
NOTES: 1- CIRCLE NUMBER IN MATERIAL TABLE INDICATES HOT-DIP GALVANIZED.  
 2- THIS DWG FOR REFERENCE.  
 3- TOP AND BOTTOM SURFACE OF RUBBER BEARING PAINTED WITH ORGANIC ZINC-RICH.  
 4- AFTER ASSEMBLE RUBBER BEARING, METAL OXIDE FILM BOLT (HEXAGON HOLE BOLT) PAINTED WITH HIGH-CONCENTRATION ZINC DUST.



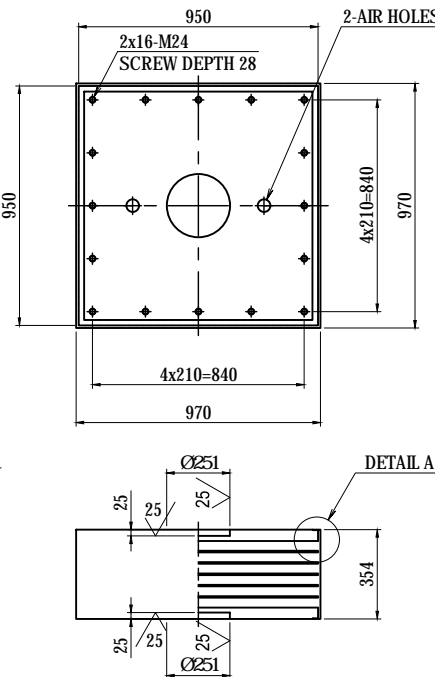
① SM490A



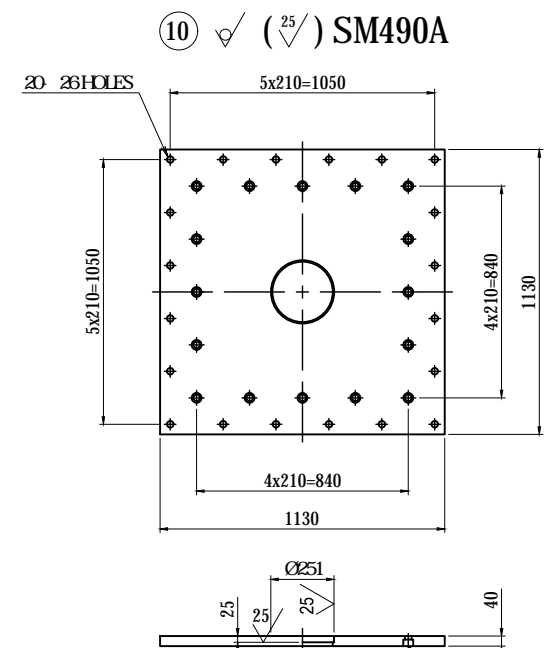
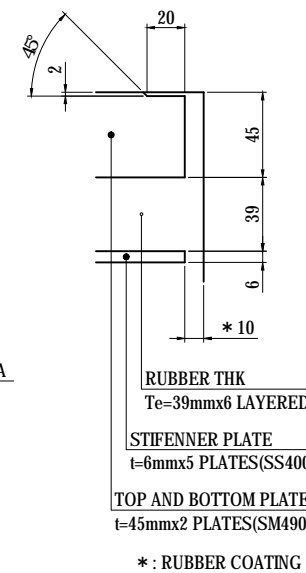
③ NR+SM490A+SS400



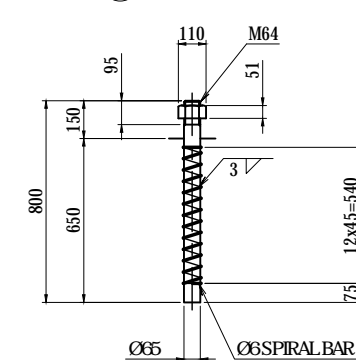
④ SM490A



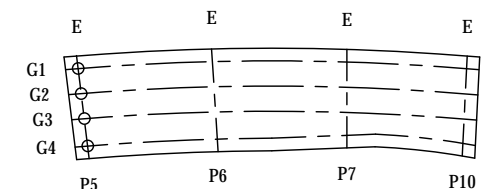
DETAIL A S=1:2



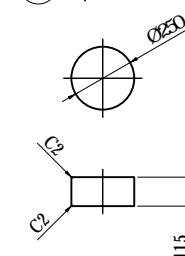
⑦ SS400



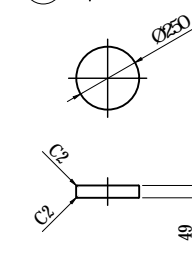
## KEY PLAN



⑧ SM490A



⑨ SM490A



⑤ HEXAGON HEAD BOLT WITH WASHER M36x180 8.8

⑥ HEXAGON HEAD BOLT WITH WASHER M36x 8.8

⑪ HEXAGON HOLE BOLT M24x60 10.9

⑫ HEXAGON HOLE BOLT M24x40 10.9

⑬ HEXAGON HEAD BOLT WITH WASHER M24x65 8.8

|   |  |   |  |             |             |              |  |                                       |
|---|--|---|--|-------------|-------------|--------------|--|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE         | DRAWING TITLE<br>DETAIL OF RUBBER BEARING(1) | PACKAGE<br>1<br>DWG No.<br>P1-SB-3001 |
|   |  |   |  | PREPARED BY | S. IMADA    | 29 Sept.2017 |  |                                       |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA | 3 Oct.2017   |  |                                       |
|   |  |   |  | APPROVED BY | Y. SANO     | 6 Oct.2017   |  |                                       |

# DETAIL OF RUBBER BEARING(2) S=1:30

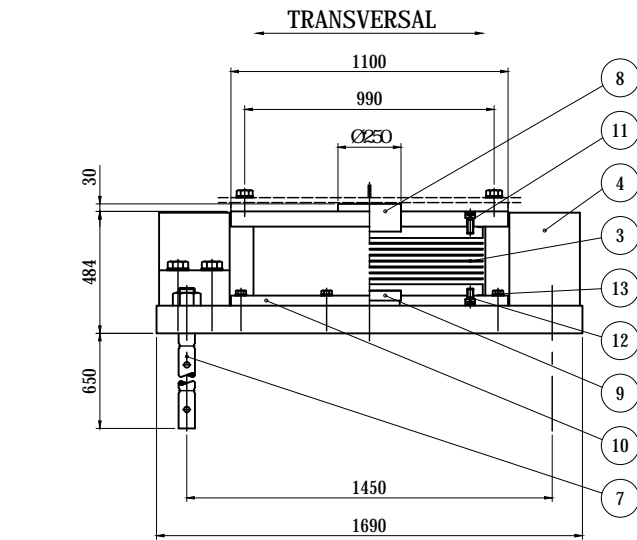
## DESIGN CRITERIA

| REACTION FORCE                             |                      |                       |
|--|----------------------|-----------------------|
| ALL REACTION FORCE                         | R                    | 7000 kN               |
| DEAD LOAD REACTION FORCE                   | Rd                   | 4800 kN               |
| LONGITUDINAL HORIZONTAL FORCE (EARTHQUAKE) | Rh1e                 | 1200 kN               |
| TRANSVERSAL HORIZONTAL FORCE (EARTHQUAKE)  | Rh2e                 | 1500 kN               |
| UP LIFT FORCE (EARTHQUAKE)                 | V                    | 480 kN                |
| QUANTITY OF MOVE                           |                      |                       |
| MAXIMAL VALUE                              | UB                   | ±180 mm               |
| RUBBER BEARING                             |                      |                       |
| SHEAR MODULUS OF RIGIDITY                  | Ge                   | 1.2 N/mm <sup>2</sup> |
| BREAKING STRAIN                            | u                    | 500 %                 |
| DISPLACEMENT TEST                          | L                    | ±228 mm               |
| EQUIVALENT STIFFNESS                       | KB                   | 6.395 kN/mm           |
| ALLOWABLE SHEAR DISTORTION                 | s                    | 150 %                 |
| SECONDARY SHAPE FACTOR                     | S2                   | 5.92                  |
| ROTATION CHECK LOAD                        | R1                   | 5000 kN               |
| ROTATIONAL VALUE                           | r                    | 1.191 mm              |
| SUPPORT CONDITION                          |                      |                       |
| LONGITUDINAL : ELASTICITY                  | TRANSVERSAL : FIXING |                       |

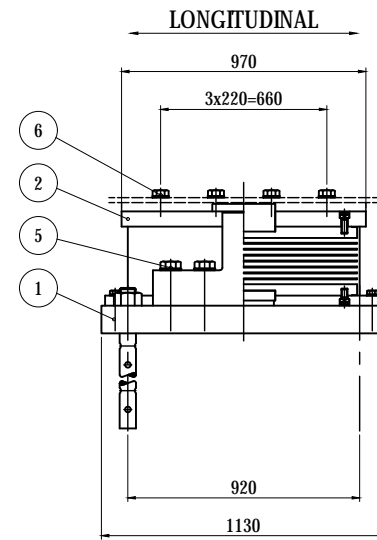
## MATERIALS

| NUMBER   | THE NAME OF AN ARTICLE        | MATERIAL          | NUMBER | MASS (Kg)   | NOTES      |
|--|-------------------------------|-------------------|--------|-------------|------------|
| ①  | BASE PLATE                    | SM490A            | 1      | 1620.7      |            |
| ②  | TOP BEARING                   | SM490A            | 1      | 470.4       |            |
| 3  | RUBBER BEARING                | NR+SM490A+SS400   | 1      | 907.4       |            |
| ④  | SIDE BLOCK                    | SM490A OR SCW480N | 2      | 583.7       |            |
| ⑤  | HEXAGON HEAD BOLT WITH WASHER | —                 | 16     | 59.4        | JIS B 1180 |
| ⑥  | HEXAGON HEAD BOLT WITH WASHER | —                 | 8      | 9.6         | JIS B 1180 |
| ⑦  | ANCHOR BOLT WITH NUT          | SS400             | 4      | 94.2        | JIS B 1181 |
| ⑧  | SHEAR KEY                     | SM490A            | 1      | 42.4        |            |
| ⑨  | SHEAR KEY                     | SM490A            | 1      | 15.0        |            |
| ⑩  | BOTTOM BEARING                | SM490A            | 1      | 358.2       |            |
| 11   | HEXAGON HOLE BOLT WITH WASHER | —                 | 16     | 5.3         | JIS B 1176 |
| 12   | HEXAGON HOLE BOLT WITH WASHER | —                 | 16     | 4.3         | JIS B 1176 |
| ⑬  | HEXAGON HEAD BOLT WITH WASHER | —                 | 12     | 4.3         | JIS B 1180 |
| TOTAL WEIGHT   |                               |                   |        | 4174.9 (kg) |            |
| CORROSION PROOF FOR OUTSIDE PL   |                               |                   |        |             |            |
| HOT-DIP GALVANIZED COATING OVER 550g/m <sup>2</sup> , 350g/m <sup>2</sup> (FOR BOLT, WASHER & NUT) |                               |                   |        |             |            |

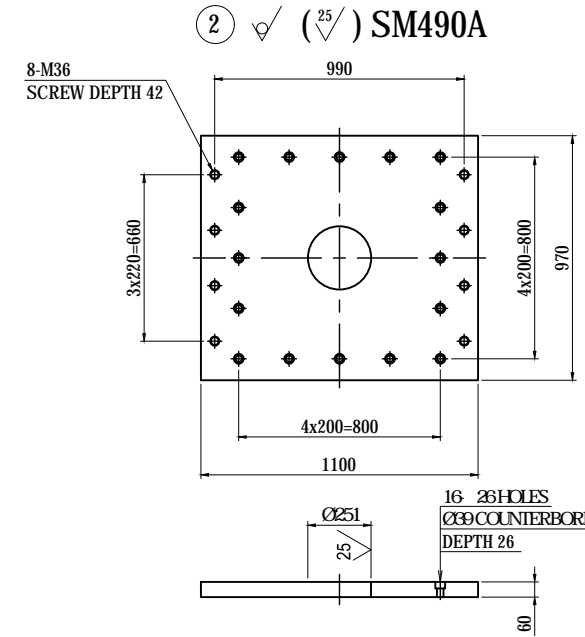
NOTES: 1- CIRCLE NUMBER IN MATERIAL TABLE INDICATES HOT-DIP GALVANIZED.  
 2- THIS DWG FOR REFERENCE.  
 3- TOP AND BOTTOM SURFACE OF RUBBER BEARING PAINTED WITH ORGANIC ZINC-RICH.  
 4- AFTER ASSEMBLE RUBBER BEARING, METAL OXIDE FILM BOLT (HEXAGON HOLE BOLT) PAINTED WITH HIGH-CONCENTRATION ZINC DUST.



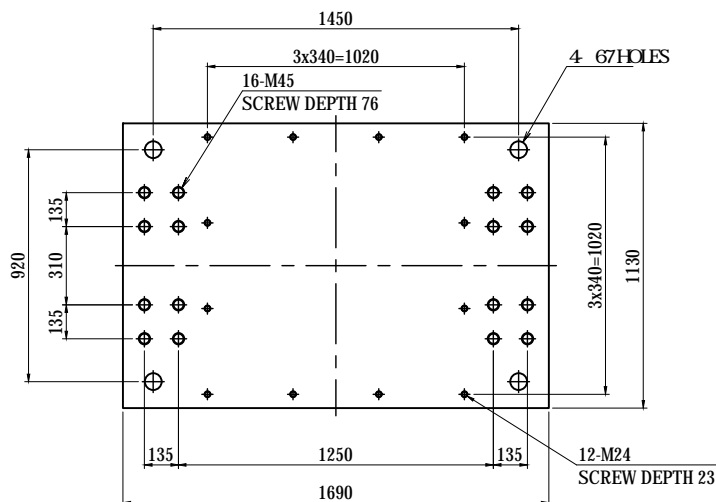
① (✓) SM490A



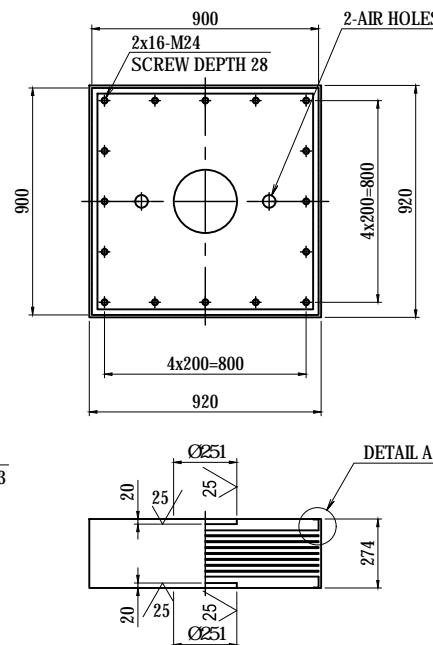
③ (✓) (25) NR+SM490A+SS400



⑩ (✓) (25) SM490A

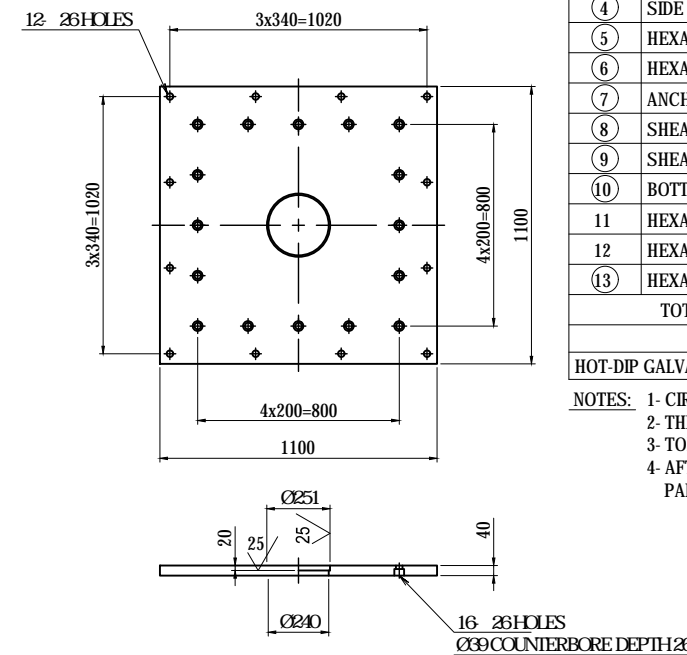


④ (✓) (25) SM490A又はSCW480N

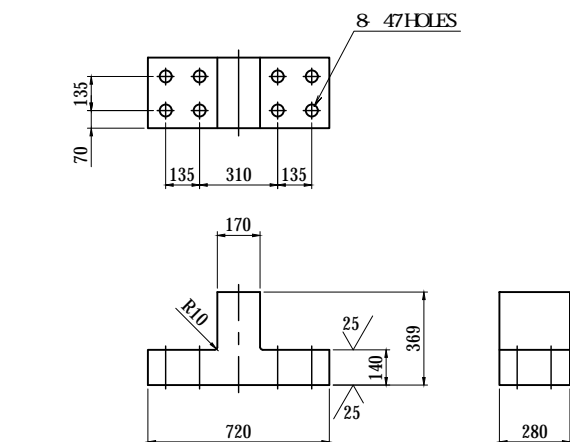


DETAIL A S=1:2

RUBBER THK  
Te=19mmx8 LAYERED  
STIFFENNER PLATE  
t=4.5mmx7 PLATES(SS400)  
TOP AND BOTTOM PLATE  
t=45mmx2 PLATES(SM490A)  
\* : RUBBER COATING



⑦ (✓) SS400



⑧ (25) SM490A

⑨ (25) SM490A

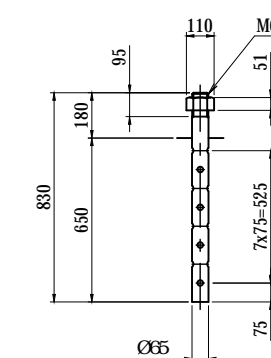
⑤ HEXAGON HEAD BOLT WITH WASHER M45x220 8.8

⑥ HEXAGON HEAD BOLT WITH WASHER M36x 8.8

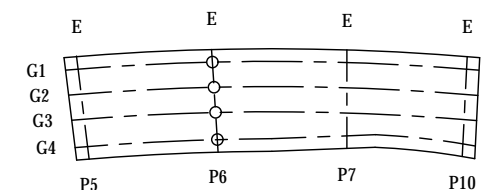
⑪ HEXAGON HOLE BOLT M24x60 10.9

⑫ HEXAGON HOLE BOLT M24x40 10.9

⑬ HEXAGON HEAD BOLT WITH WASHER M24x65 8.8



## KEY PLAN



# DETAIL OF RUBBER BEARING(3) S=1:30

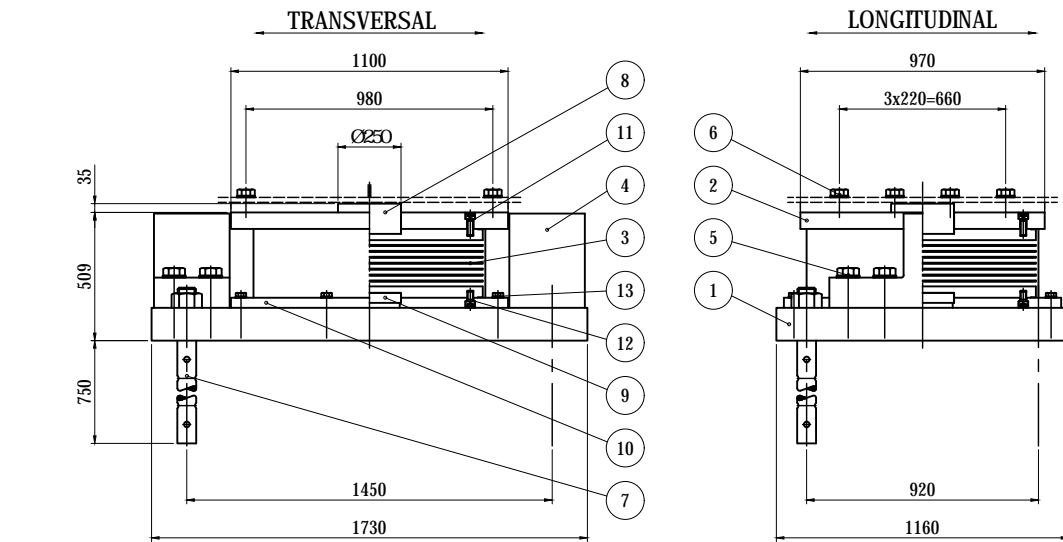
## DESIGN CRITERIA

| REACTION FORCE                             |                      |                       |
|--|----------------------|-----------------------|
| ALL REACTION FORCE                         | R                    | 8400 kN               |
| DEAD LOAD REACTION FORCE                   | Rd                   | 6000 kN               |
| LONGITUDINAL HORIZONTAL FORCE (EARTHQUAKE) | Rh1e                 | 1100 kN               |
| TRANSVERSAL HORIZONTAL FORCE (EARTHQUAKE)  | Rh2e                 | 2000 kN               |
| UP LIFT FORCE (EARTHQUAKE)                 | V                    | 600 kN                |
| QUANTITY OF MOVE                           |                      |                       |
| MAXIMAL VALUE                              | UB                   | ±170 mm               |
| RUBBER BEARING                             |                      |                       |
| SHEAR MODULUS OF RIGIDITY                  | Ge                   | 1.2 N/mm <sup>2</sup> |
| BREAKING STRAIN                            | u                    | 500 %                 |
| DISPLACEMENT TEST                          | L                    | ±228 mm               |
| EQUIVALENT STIFFNESS                       | KB                   | 6.395 kN/mm           |
| ALLOWABLE SHEAR DISTORTION                 | s                    | 150 %                 |
| SECONDARY SHAPE FACTOR                     | S2                   | 5.92                  |
| ROTATION CHECK LOAD                        | R1                   | 6200 kN               |
| ROTATIONAL VALUE                           | r                    | 1.720 mm              |
| SUPPORT CONDITION                          |                      |                       |
| LONGITUDINAL : ELASTICITY                  | TRANSVERSAL : FIXING |                       |

## MATERIALS

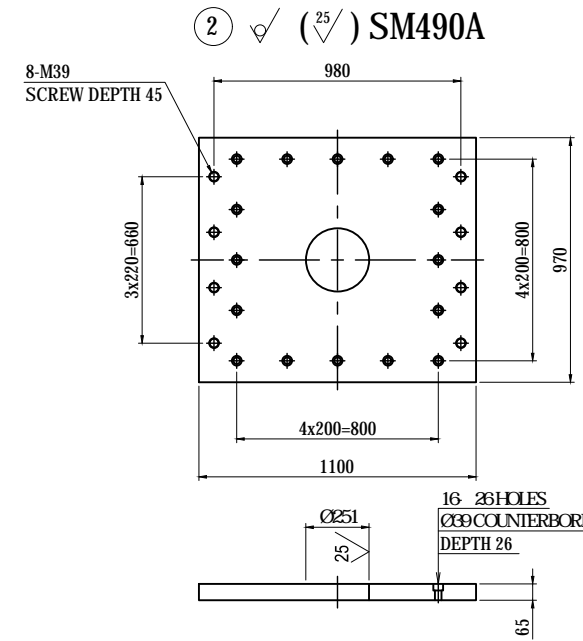
| NUMBER   | THE NAME OF AN ARTICLE        | MATERIAL          | NUMBER | MASS (Kg) | NOTES      |
|--|-------------------------------|-------------------|--------|-----------|------------|
| ①  | BASE PLATE                    | SM490A            | 1      | 2008.6    |            |
| ②  | TOP BEARING                   | SM490A            | 1      | 509.3     |            |
| 3  | RUBBER BEARING                | NR+SM490A+SS400   | 1      | 907.4     |            |
| ④  | SIDE BLOCK                    | SM490A OR SCW480N | 2      | 568.1     |            |
| ⑤  | HEXAGON HEAD BOLT WITH WASHER | —                 | 16     | 67.2      | JIS B 1180 |
| ⑥  | HEXAGON HEAD BOLT WITH WASHER | —                 | 8      | 12.6      | JIS B 1180 |
| ⑦  | ANCHOR BOLT WITH NUT          | SS400             | 4      | 143.6     | JIS B 1181 |
| ⑧  | SHEAR KEY                     | SM490A            | 1      | 46.2      |            |
| ⑨  | SHEAR KEY                     | SM490A            | 1      | 15.0      |            |
| ⑩  | BOTTOM BEARING                | SM490A            | 1      | 358.2     |            |
| 11   | HEXAGON HOLE BOLT WITH WASHER | —                 | 16     | 5.6       | JIS B 1176 |
| 12   | HEXAGON HOLE BOLT WITH WASHER | —                 | 16     | 4.3       | JIS B 1176 |
| ⑬  | HEXAGON HEAD BOLT WITH WASHER | —                 | 12     | 4.3       | JIS B 1180 |
| TOTAL WEIGHT   |                               |                   |        | 4650.4    | (kg)       |
| CORROSION PROOF FOR OUTSIDE PL   |                               |                   |        |           |            |
| HOT-DIP GALVANIZED COATING OVER 550g/m <sup>2</sup> , 350g/m <sup>2</sup> (FOR BOLT, WASHER & NUT) |                               |                   |        |           |            |

NOTES: 1- CIRCLE NUMBER IN MATERIAL TABLE INDICATES HOT-DIP GALVANIZED.  
 2- THIS DWG FOR REFERENCE.  
 3- TOP AND BOTTOM SURFACE OF RUBBER BEARING PAINTED WITH ORGANIC ZINC-RICH.  
 4- AFTER ASSEMBLE RUBBER BEARING, METAL OXIDE FILM BOLT (HEXAGON HOLE BOLT) PAINTED WITH HIGH-CONCENTRATION ZINC DUST.

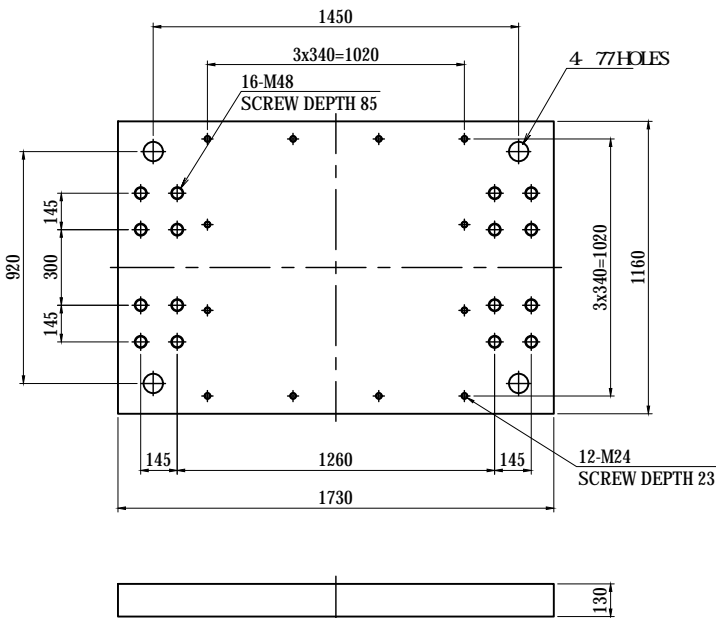


① (✓) SM490A

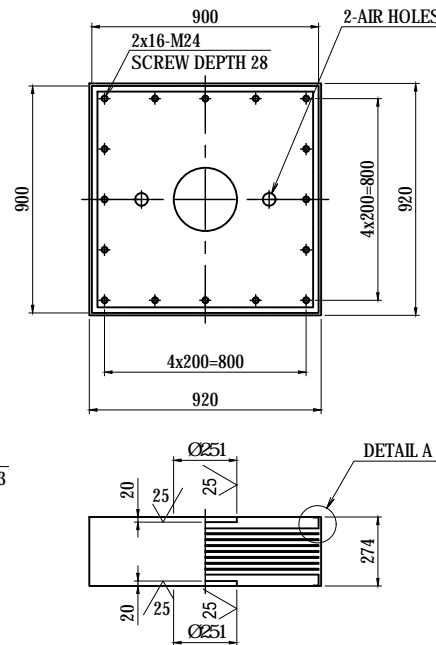
③ (✓) (25) NR+SM490A+SS400



⑩ (✓) (25) SM490A

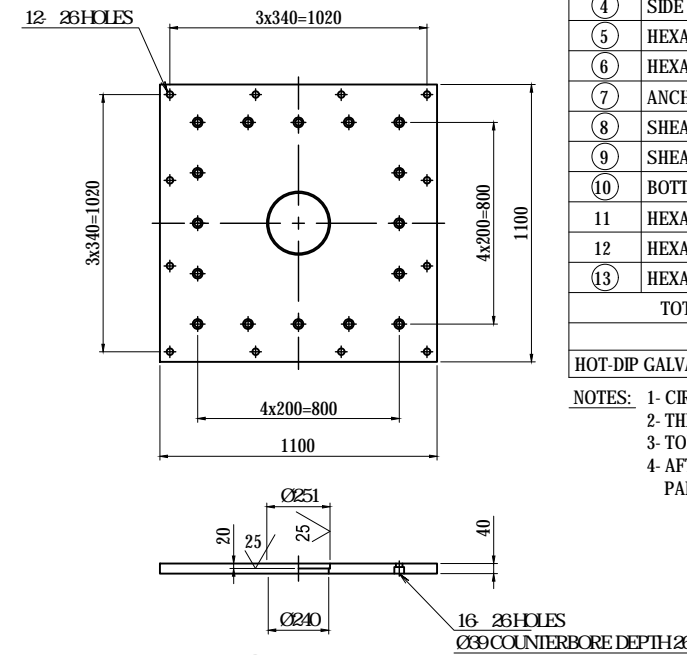


④ (✓) (25) SM490A又はSCW480N

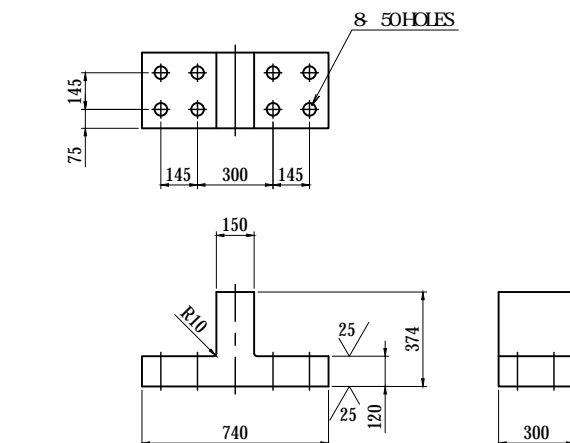


DETAIL A S=1:2

RUBBER THK  
Te=19mmx8 LAYERED  
 STIFFENNER PLATE  
t=4.5mmx7 PLATES(SS400)  
 TOP AND BOTTOM PLATE  
t=45mmx2 PLATES(SM490A)  
 \* : RUBBER COATING



⑦ (✓) SS400



⑧ (25) SM490A

⑨ (25) SM490A

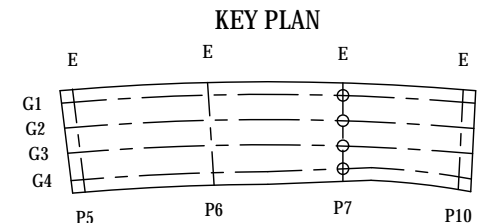
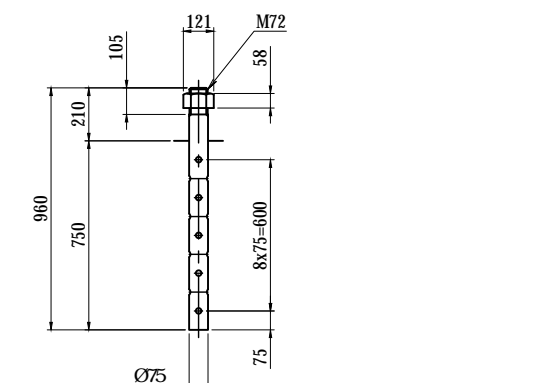
⑤ HEXAGON HEAD BOLT WITH WASHER M48x210 8.8

⑥ HEXAGON HEAD BOLT WITH WASHER M39x 8.8

⑪ HEXAGON HOLE BOLT M24x65 10.9

⑫ HEXAGON HOLE BOLT M24x40 10.9

⑬ HEXAGON HEAD BOLT WITH WASHER M24x65 8.8



# DETAIL OF RUBBER BEARING(4) S=1:30

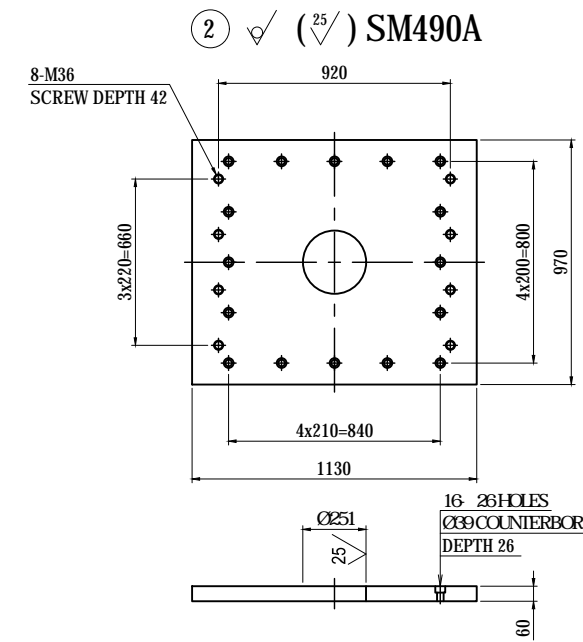
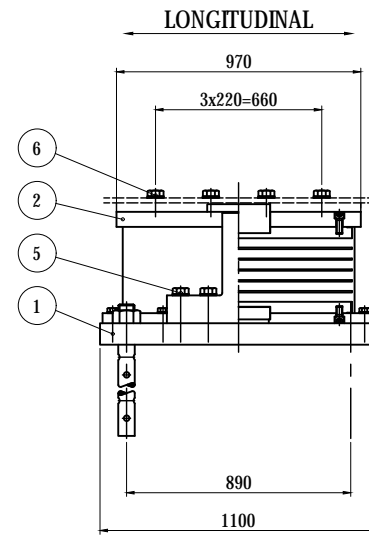
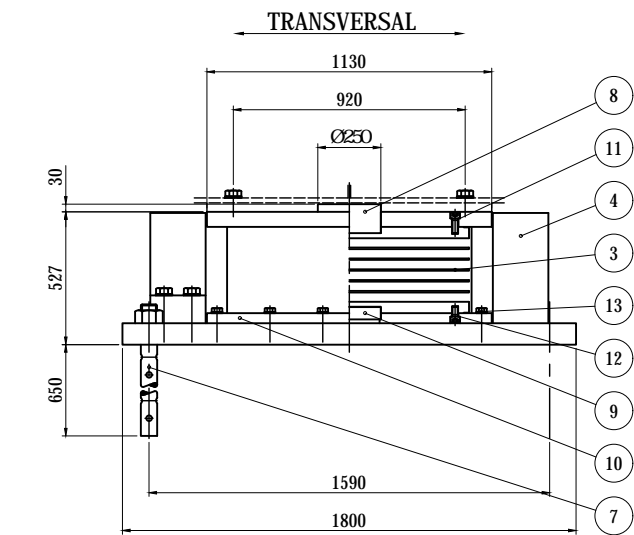
## DESIGN CRITERIA

| REACTION FORCE                             |                     |                       |
|--|---------------------|-----------------------|
| ALL REACTION FORCE                         | R                   | 4100 kN               |
| DEAD LOAD REACTION FORCE                   | Rd                  | 2500 kN               |
| LONGITUDINAL HORIZONTAL FORCE (EARTHQUAKE) | Rh1e                | 1400 kN               |
| TRANSVERSAL HORIZONTAL FORCE (EARTHQUAKE)  | Rh2e                | 700 kN                |
| UP LIFT FORCE (EARTHQUAKE)                 | V                   | 250 kN                |
| QUANTITY OF MOVE                           |                     |                       |
| MAXIMAL VALUE                              | UB                  | ±286 mm               |
| RUBBER BEARING                             |                     |                       |
| SHEAR MODULUS OF RIGIDITY                  | Ge                  | 1.2 N/mm <sup>2</sup> |
| BREAKING STRAIN                            | u                   | 500 %                 |
| DISPLACEMENT TEST                          | L                   | ±333 mm               |
| EQUIVALENT STIFFNESS                       | KB                  | 4.622 kN/mm           |
| ALLOWABLE SHEAR DISTORTION                 | s                   | 150 %                 |
| SECONDARY SHAPE FACTOR                     | S2                  | 4.05                  |
| ROTATION CHECK LOAD                        | R1                  | 3200 kN               |
| ROTATIONAL VALUE                           | r                   | 2.433 mm              |
| CHECK LOAD                                 | R1L                 | 850 kN                |
| COMPRESSED DISPLACEMENT OF CHECK LOAD      | cL                  | 0.841 mm              |
| SUPPORT CONDITION                          |                     |                       |
| LONGITUDINAL: ELASTICITY                   | TRANSVERSAL: FIXING |                       |

## MATERIALS

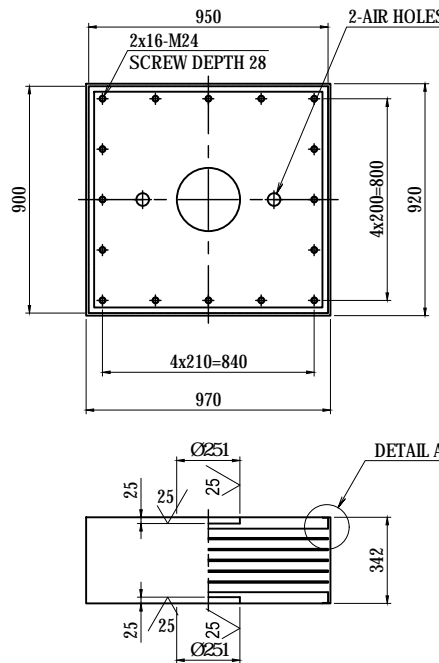
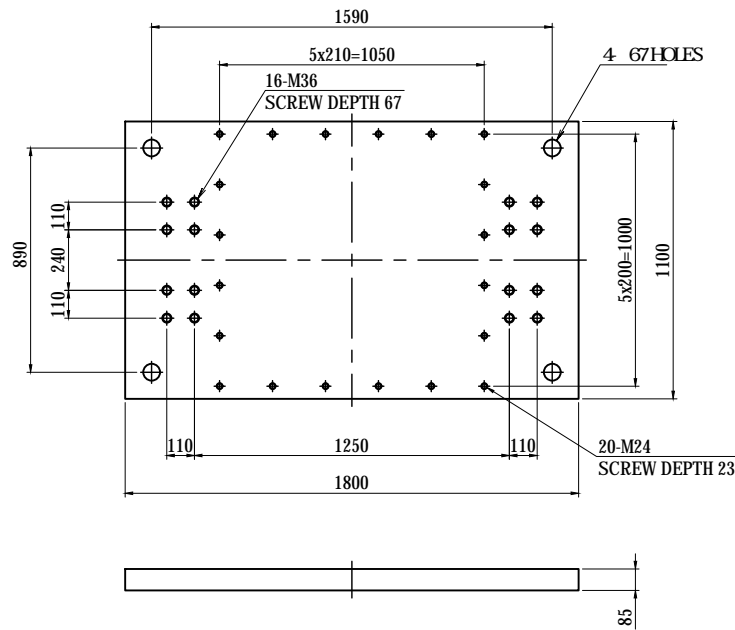
| NUMBER   | THE NAME OF AN ARTICLE        | MATERIAL        | NUMBER | MASS (Kg) | NOTES      |
|--|-------------------------------|-----------------|--------|-----------|------------|
| ①  | BASE PLATE                    | SM490A          | 1      | 1301.5    |            |
| ②  | TOP BEARING                   | SM490A          | 1      | 484.1     |            |
| ③  | RUBBER BEARING                | NR+SM490A+SS400 | 1      | 1015.8    |            |
| ④  | SIDE BLOCK                    | SM490A          | 2      | 347.7     |            |
| ⑤  | HEXAGON HEAD BOLT WITH WASHER |                 | 16     | 30.7      | JIS B 1180 |
| ⑥  | HEXAGON HEAD BOLT WITH WASHER |                 | 8      | 9.6       | JIS B 1180 |
| ⑦  | ANCHOR BOLT WITH NUT          | SS400           | 4      | 91.6      | JIS B 1181 |
| ⑧  | SHEAR KEY                     | SM490A          | 1      | 44.3      |            |
| ⑨  | SHEAR KEY                     | SM490A          | 1      | 18.9      |            |
| ⑩  | BOTTOM BEARING                | SM490A          | 1      | 360.0     |            |
| ⑪  | HEXAGON HOLE BOLT WITH WASHER |                 | 16     | 5.3       | JIS B 1176 |
| ⑫  | HEXAGON HOLE BOLT WITH WASHER |                 | 16     | 4.3       | JIS B 1176 |
| ⑬  | HEXAGON HEAD BOLT WITH WASHER |                 | 20     | 7.2       | JIS B 1180 |
| TOTAL WEIGHT   |                               |                 |        | 3721.0    | (kg)       |
| CORROSION PROOF FOR OUTSIDE PL   |                               |                 |        |           |            |
| HOT-DIP GALVANIZED COATING OVER 550g/m <sup>2</sup> , 350g/m <sup>2</sup> (FOR BOLT, WASHER & NUT) |                               |                 |        |           |            |

NOTES: 1- CIRCLE NUMBER IN MATERIAL TABLE INDICATES HOT-DIP GALVANIZED.  
 2- THIS DWG FOR REFERENCE.  
 3- TOP AND BOTTOM SURFACE OF RUBBER BEARING PAINTED WITH ORGANIC ZINC-RICH.  
 4- AFTER ASSEMBLE RUBBER BEARING, METAL OXIDE FILM BOLT (HEXAGON HOLE BOLT) PAINTED WITH HIGH-CONCENTRATION ZINC DUST.



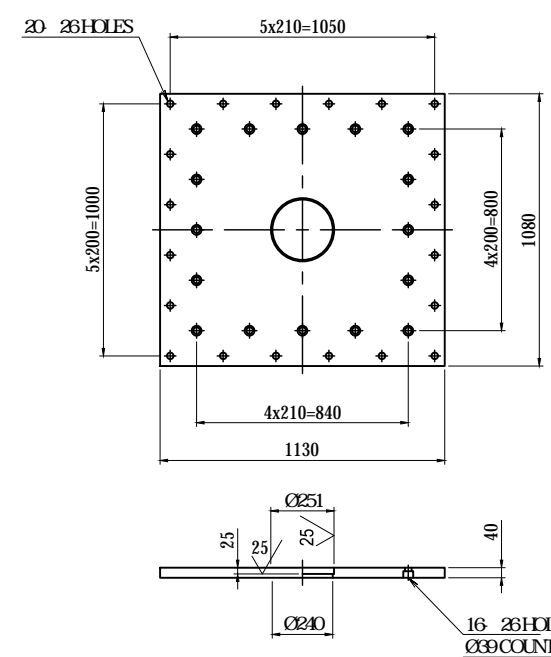
① SM490A

③ NR+SM490A+SS400



DETAIL A S=1:2

⑩ SM490A



④ SM490A

⑧ SM490A

⑨ SM490A

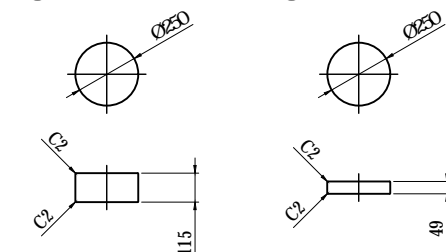
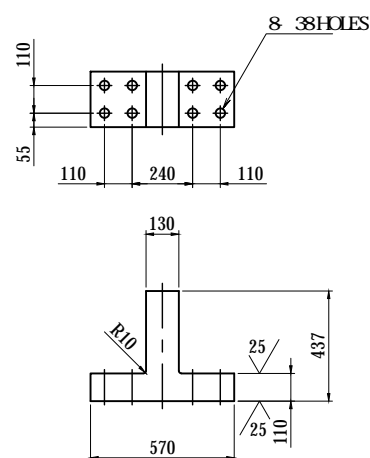
⑤ HEXAGON HEAD BOLT WITH WASHER M36x180 8.8

⑥ HEXAGON HEAD BOLT WITH WASHER M36x 8.8

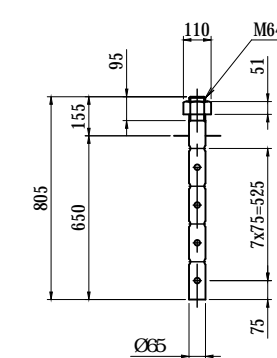
⑪ HEXAGON HOLE BOLT M24x60 10.9

⑫ HEXAGON HOLE BOLT M24x40 10.9

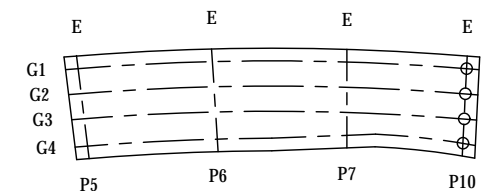
⑬ HEXAGON HEAD BOLT WITH WASHER M24x65 8.8



⑦ SS400



## KEY PLAN



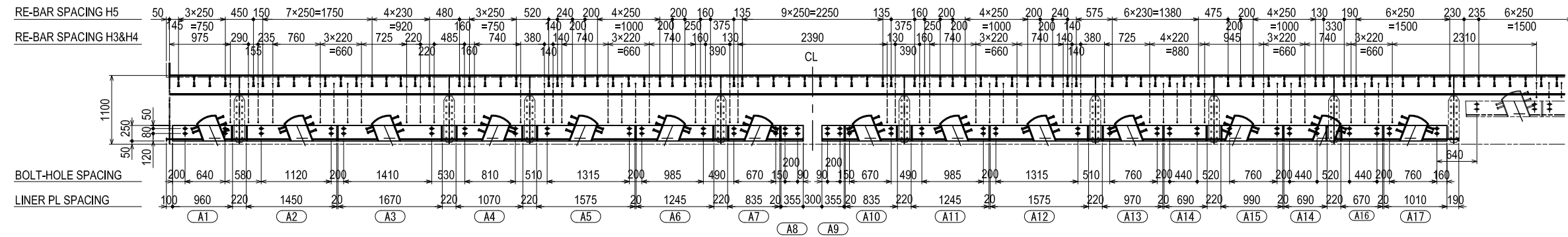
|   |  |   |  |                           |                              |                       |  |              |
|---|--|---|--|---------------------------|------------------------------|-----------------------|--|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>S. IMADA          | SIGNATURE<br><i>S. Imada</i> | DATE<br>29 Sept. 2017 | DRAWING TITLE<br>DETAIL OF RUBBER BEARING(4) | PACKAGE<br>1 |
|   |  |   |  | CHECKED BY<br>T. HAYAKAWA | <i>T. Hayakawa</i>           | 3 Oct. 2017           |  | DWG No.      |
|   |  |   |  | APPROVED BY<br>Y. SANO    | <i>Y. Sano</i>               | 6 Oct. 2017           |  | P1-SB-3004   |



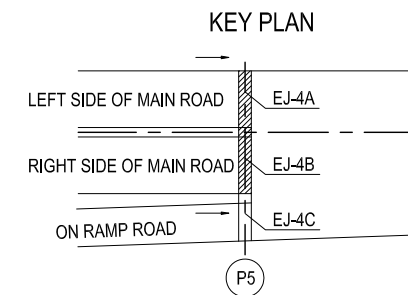
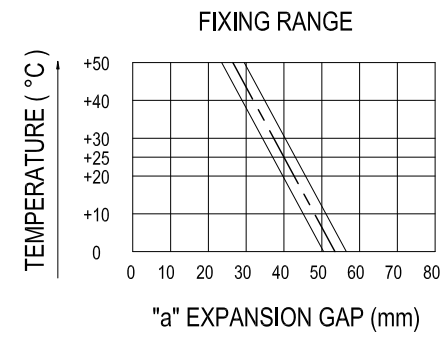
# EXPANSION JOINT PIER P5 MAIN ROAD (2) S=1:80

## EJ-4A,EJ-4B ASSEMBLY DRAWING (2/2)

### SECTION C-C (PIER P5 TO P10 SIDE)



| DESIGN CRITERIA                 |           |
|---------------------------------|-----------|
| LOAD (WHEEL LOAD)               | 72.5 kN   |
| THERMAL RANGE                   | 0°C~+50°C |
| CONTINUOUS THERMAL DISPLACEMENT | 162 mm    |
| CONTINUOUS AMOUNT OF RESERVE    | 32 mm     |
| CONTINUOUS DISPLACEMENT (TOTAL) | 194 mm    |
| SEISMIC DISPLACEMENT            | 444 mm    |



#### NOTES:

- 1 - THIS DRAWING SHOWS THE CONDITION OF EXPANSION GAP "A"=40mm(AT 25) PER CELL.
- 2 - PAINTING : CONCRETE BONDING SECTIONS PAINTED WITH ZINC-RICH PRIMER (15mm),AND FOR SECTIONS REMAINING MODIFIED EPOXY RESIN IS PAINTED TWICE (TOP COATING: BLACK).
- 3 - FOR WELDING POINTS WITHOUT INSTRUCTIONS, IMPLEMENT FILLET WELDING OF 6mm.
- 4 - THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECTED TO THE ENGINEER'S APPROVAL.

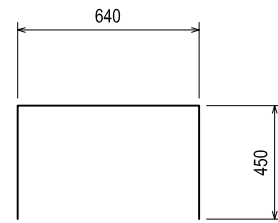
| PROJECT NAME  | FINANCED BY                                 | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE          | DATE        | DRAWING TITLE                         | PACKAGE    |
|---|---|--|---|-------------|--------------------|-------------|---------------------------------------|------------|
| 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. | S. IMADA    | <i>S. Imada</i>    | 27 Nov.2017 | EXPANSION JOINT PIER P5 MAIN ROAD (2) | 1          |
|   |   |  |   | T. HAYAKAWA | <i>T. Hayakawa</i> | 28 Nov.2017 |                                       | DWG No.    |
|   |   |  |   | Y. SANO     | <i>Y. Sano</i>     | 29 Nov.2017 |                                       | P1-SB-3012 |



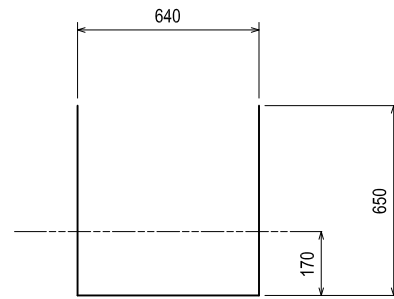
# EXPANSION JOINT PIER P5 MAIN ROAD (4) S=1:10

## EJ-4A,EJ-4B DETAIL DRAWING(2/3)

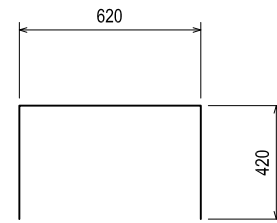
H1 25-D16x1540L(LEFT SIDE)  
25-D16x1540L(RIGHT SIDE)



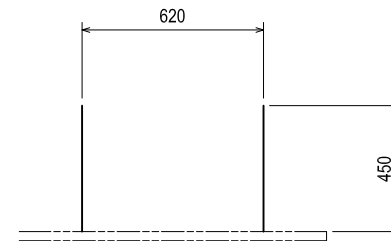
H2 25-D16x1940L(LEFT SIDE)  
25-D16x1940L(RIGHT SIDE)



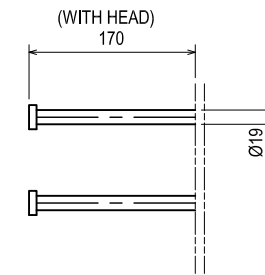
H3 50-D16x1460L



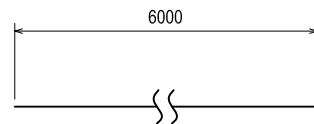
H4 100-D16x450L



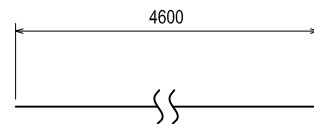
H5 166-Ø19x170L



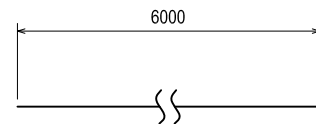
H6 3-D16x6000L(LEFT SIDE)  
3-D16x6000L(RIGHT SIDE)



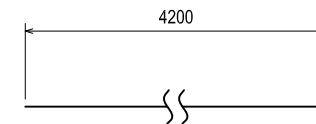
H7 3-D16x4600L(LEFT SIDE)  
3-D16x4600L(RIGHT SIDE)



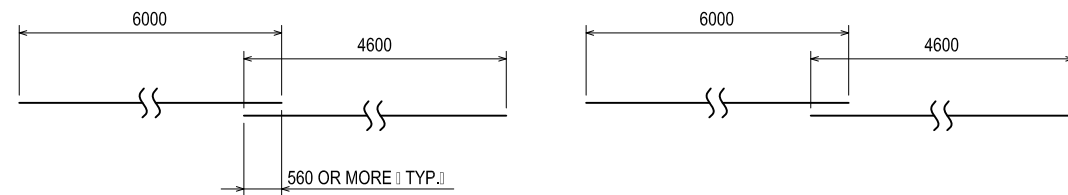
H8 9-D16x6000L



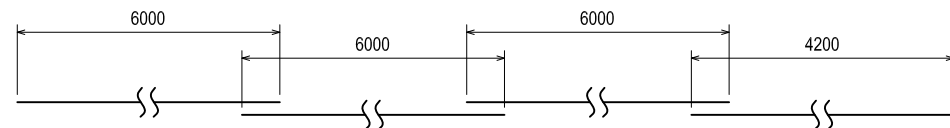
H9 3-D16x4200L



H6 H7



H8 H9



### NOTES:

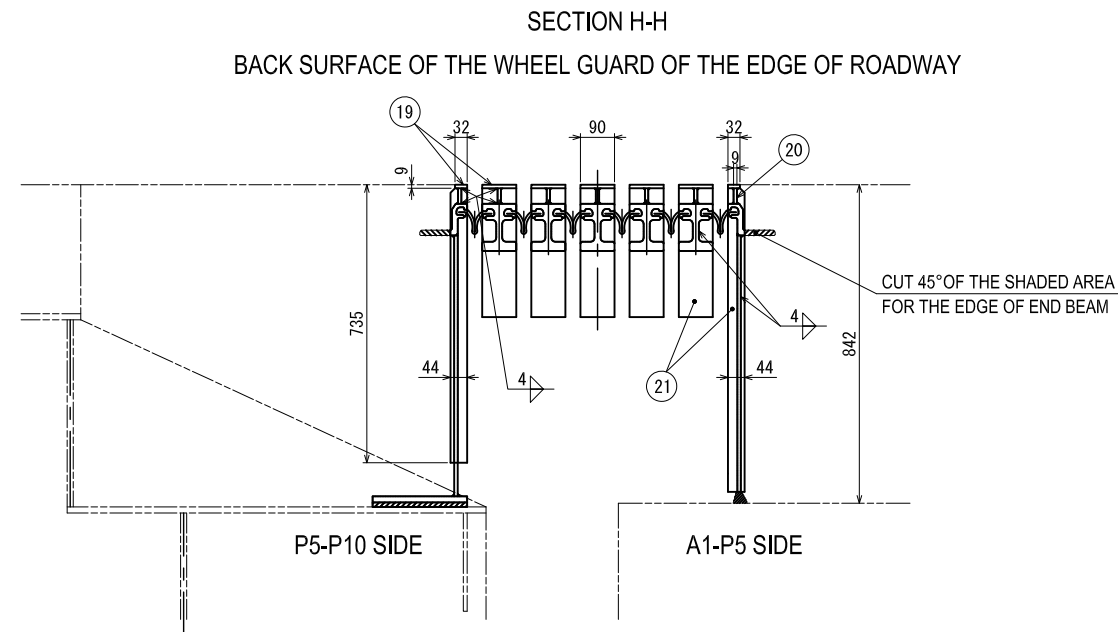
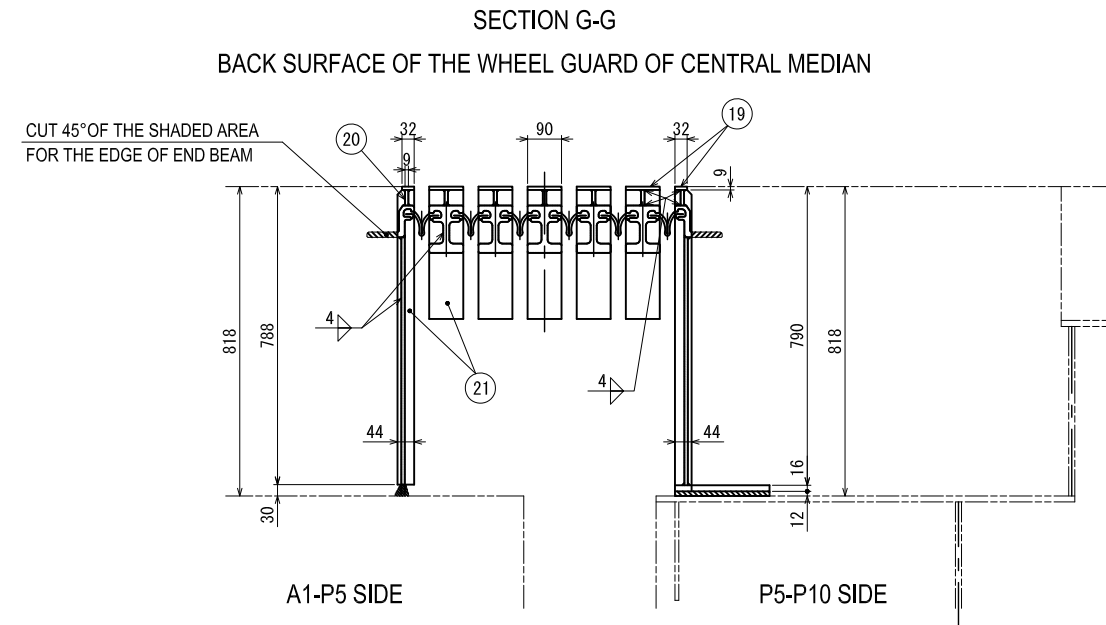
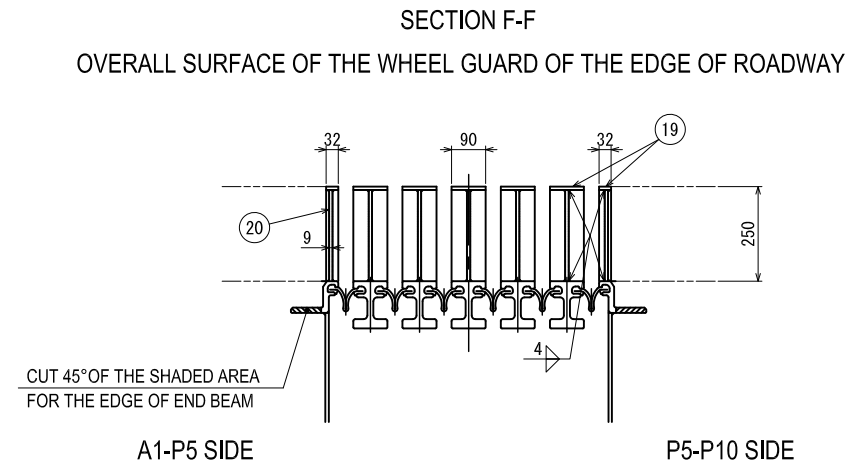
- 1-(H) BE SURE TO MAKE PREPARATIONS FOR RE-BAR AT TIME OF SUPERSTRUCTURE WORK.
- 2-(H4)(H5) BE SURE TO IMPLEMENT RE-BAR AT THE TIME OF FABRICATION OF THE DECK PL.
- 3 - CUT OFF ON-SITE THE SURPLUS LENGTH OF THE RE-BAR.

|   |   |   |  |  |  |   |  |                                       |
|---|---|---|--|--|--|---|--|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>jica JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>S. IMADA<br>T. HAYAKAWA<br>Y. SANO | SIGNATURE<br><i>S. Imada</i><br><i>T. Hayakawa</i><br><i>Y. Sano</i> | DATE<br>27 Nov.2017<br>28 Nov.2017<br>29 Nov.2017 | DRAWING TITLE<br>EXPANSION JOINT PIER P5 MAIN ROAD (4) | PACKAGE<br>1<br>DWG No.<br>P1-SB-3014 |
|---|---|---|--|--|--|---|--|---------------------------------------|



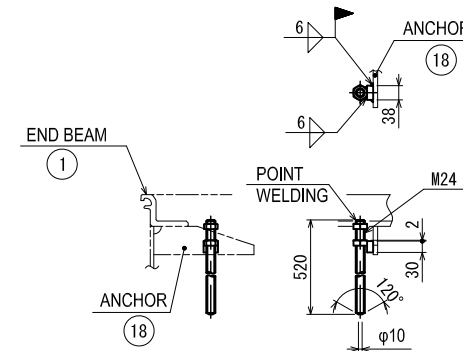
# EXPANSION JOINT PIER P5 MAIN ROAD (5) S=1:20

## EJ-4A,EJ-4B DETAIL DRAWING(3/3)



### 30 INSTALLATION JIG

NOTE : INSTALLATION ANCHOR PL BETWEEN BOXES OF PC BOX GIRDER, CUT OFF ON-SITE THE SURPLUS LENGTH OF THE RE-BAR.



| NO. | THE NAME OF AN ARTICLE | MATERIAL     |
|-----|------------------------|--------------|
| 1   | END BEAM               | S355J2+AR    |
| 2   | MIDDLE BEAM            | S355J2+N     |
| 3   | SEAL RUBBER            | CR           |
| 4   | WEB                    | SM490A       |
| 5   | BOX                    | SM490A       |
| 6   | SUPPORTING BEAM        | SM490A       |
| 7   | BUSH                   | POLYETHYLENE |
| 8   | SPRING                 | NR           |
| 9   | EB BEARING             | NR           |
| 10  | MB BEARING             | NR           |
| 11  | SPRING-FACE A          | SM490A       |
| 12  | BEARING-FACE A         | SM490A       |
| 13  | SPRING-FACE B          | SM490A       |
| 14  | BEARING-FACE B         | SM490A       |
| 15  | SUS DISK               | SUS316L      |
| 16  | SLIPPING DISK          | METALLOPLAST |
| 17  | PROTECTIVE PL          | SM490A       |
| 18  | ANCHOR                 | SM490A       |
| 19  | COVER                  | SM490A       |
| 20  | PL                     | SM490A       |
| 21  | END PL                 | SM490A       |
| 22  | REINFORCING BAR        | SD345        |
| 23  | STUD                   | JIS B1198    |
| 24  | WELDED WIRE FABRIC     | SUS304       |
| 25  | WIRE RACK              | SR235        |
| 26  | BOTTOM FLANGE          | SM490A       |
| 27  | LINER                  | SS400        |
| 28  | HTB                    | F10T         |
| 29  | SUPPORT                | SM490A       |
| 30  | INSTALLATION JIG       | SS400        |

### NOTES:

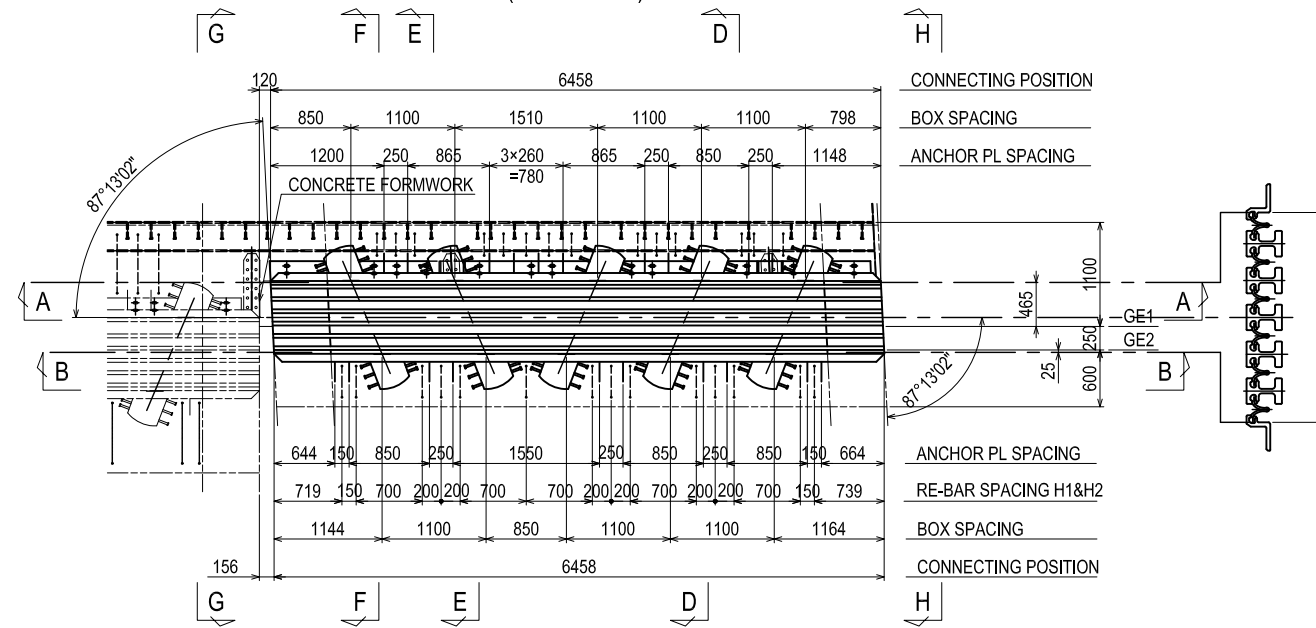
- THIS DRAWING SHOWS THE CONDITION OF EXPANSION GAP "A"=40mm(AT 25) PER CELL.
- PAINTING : CONCRETE BONDING SECTIONS PAINTED WITH ZINC-RICH PRIMER (15mm), AND FOR SECTIONS REMAINING MODIFIED EPOXY RESIN IS PAINTED TWICE (TOP COATING: BLACK).
- FOR WELDING POINTS WITHOUT INSTRUCTIONS, IMPLEMENT FILLET WELDING OF 6mm.
- ② SITE WELDING IS IMPLEMENTED PARTIALLY ON THE RE-BAR.
- (H) BE SURE TO MAKE PREPARATION FOR RE-BAR AND STUDS AT TIME OF SUPERSTRUCTURE WORK.
- THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.

| 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. | S. IMADA    | <i>S. Imada</i>    | 27 Nov.2017 | EXPANSION JOINT PIER P5 MAIN ROAD (5) | 1          |
|   |   |  |   | T. HAYAKAWA | <i>T. Hayakawa</i> | 28 Nov.2017 |                                       | DWG No.    |
|   |   |  |   | Y. SANO     | <i>Y. Sano</i>     | 29 Nov.2017 |                                       | P1-SB-3015 |

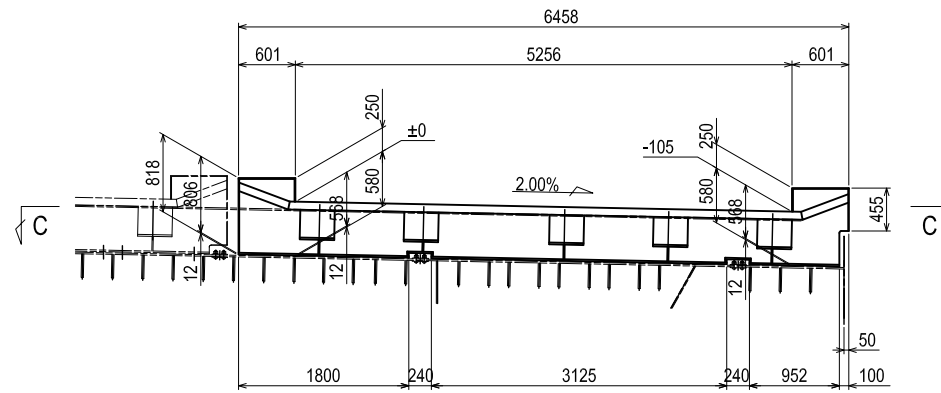
# EXPANSION JOINT PIER P5 ON RAMP (1) S=1:80

## EJ-4C ASSEMBLY DRAWING (1/2)

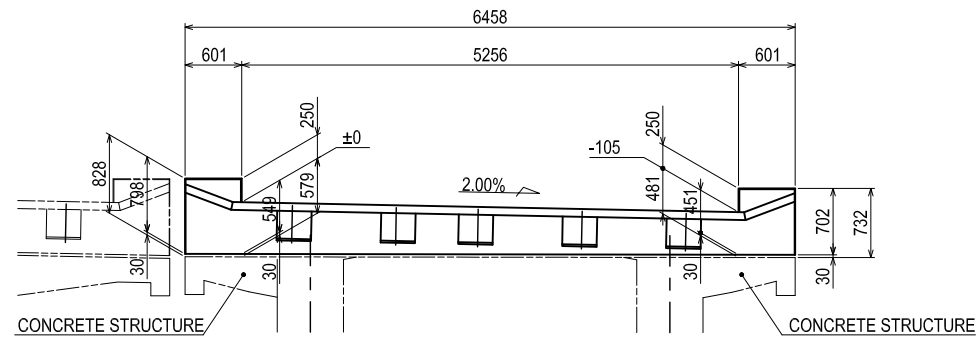
(EJ-4B)  
(RIGHT SIDE)



SECTION A-A  
(PIER P5 TO P10 SIDE)



SECTION B-B  
(ABUTMENT A01 TO PIER P5 SIDE)



### NOTES:

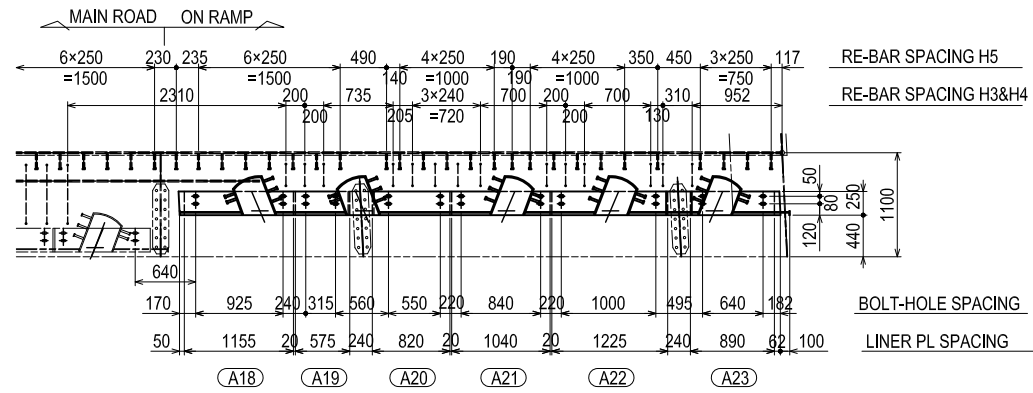
- 1 - THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.

| PROJECT NAME  | FINANCED BY                                       | COUNTERPART  | JICA STUDY TEAM   | NAME                      | SIGNATURE          | DATE        | DRAWING TITLE                       | PACKAGE    |
|---|---|--|---|---------------------------|--------------------|-------------|-------------------------------------|------------|
| DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | PREPARED BY<br>S. IMADA   | <i>S. Imada</i>    | 27 Nov.2017 | EXPANSION JOINT PIER P5 ON RAMP (1) | 1          |
|   |   |  |   | CHECKED BY<br>T. HAYAKAWA | <i>T. Hayakawa</i> | 28 Nov.2017 |                                     | DWG No.    |
|   |   |  |   | APPROVED BY<br>Y. SANO    | <i>Y. Sano</i>     | 29 Nov.2017 |                                     | P1-SB-3016 |

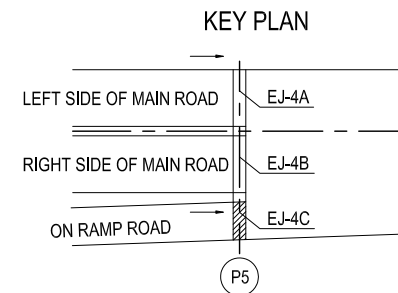
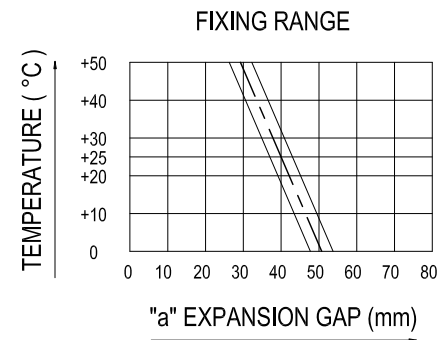
# EXPANSION JOINT PIER P5 ON RAMP (2) S=1:80

## EJ-4C ASSEMBLY DRAWING (2/2)

SECTION C-C  
(PIER P5 TO P10 SIDE)



| DESIGN CRITERIA                 |           |
|---------------------------------|-----------|
| LOAD (WHEEL LOAD)               | 72.5 kN   |
| THERMAL RANGE                   | 0°C~+50°C |
| CONTINUOUS THERMAL DISPLACEMENT | 129 mm    |
| CONTINUOUS AMOUNT OF RESERVE    | 26 mm     |
| CONTINUOUS DISPLACEMENT (TOTAL) | 155 mm    |
| SEISMIC DISPLACEMENT            | 444 mm    |



### NOTES:

- 1 - THIS DRAWING SHOWS THE CONDITION OF EXPANSION GAP "a"=40mm(AT 25) PER CELL.
- 2 - PAINTING : CONCRETE BONDING SECTIONS PAINTED WITH ZINC-RICH PRIMER (15mm),AND FOR SECTIONS REMAINING MODIFIED EPOXY RESIN IS PAINTED TWICE (TOP COATING: BLACK).
- 3 - FOR WELDING POINTS WITHOUT INSTRUCTIONS, IMPLEMENT FILLET WELDING OF 6mm.
- 4 - THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECTED TO THE ENGINEER'S APPROVAL.

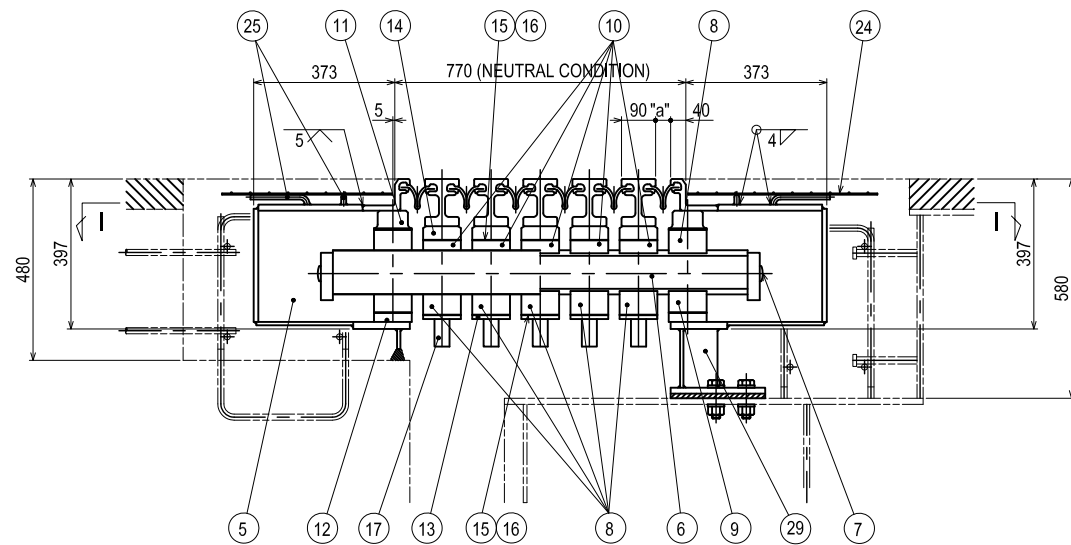
| PROJECT NAME  | FINANCED BY                                 | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE          | DATE        | DRAWING TITLE                       | PACKAGE    |
|---|---|--|---|-------------|--------------------|-------------|-------------------------------------|------------|
| 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. | S. IMADA    | <i>S. Imada</i>    | 27 Nov.2017 | EXPANSION JOINT PIER P5 ON RAMP (2) | 1          |
|   |   |  |   | T. HAYAKAWA | <i>T. Hayakawa</i> | 28 Nov.2017 |                                     | DWG No.    |
|   |   |  |   | Y. SANO     | <i>Y. Sano</i>     | 29 Nov.2017 |                                     | P1-SB-3017 |

# EXPANSION JOINT PIER P5 ON RAMP (3) S=1:20

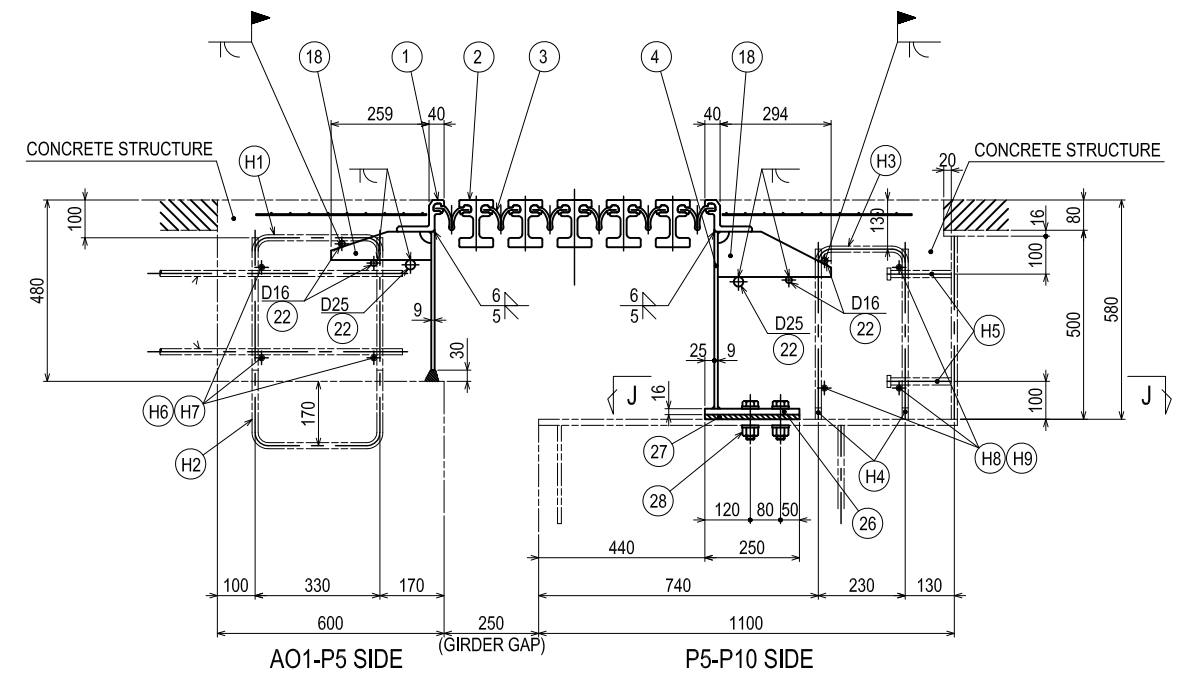
## EJ-4C DETAIL DRAWING(1/3)

SECTION D-D

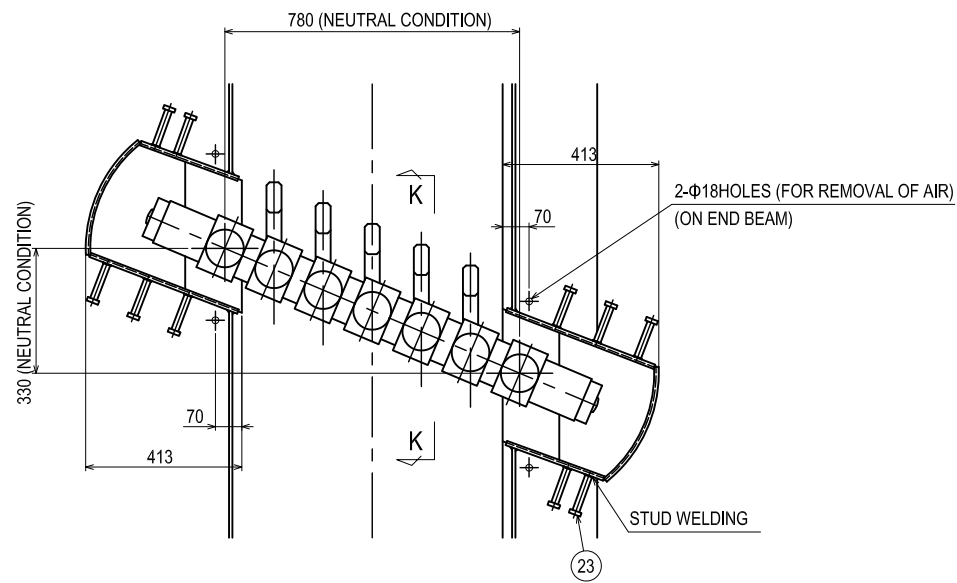
NOTE : "a" = 0 | 80mm | NEUTRAL 40mm |



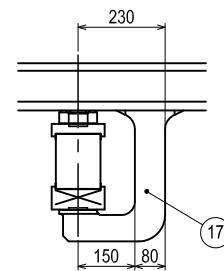
SECTION E-E



SECTION I-I

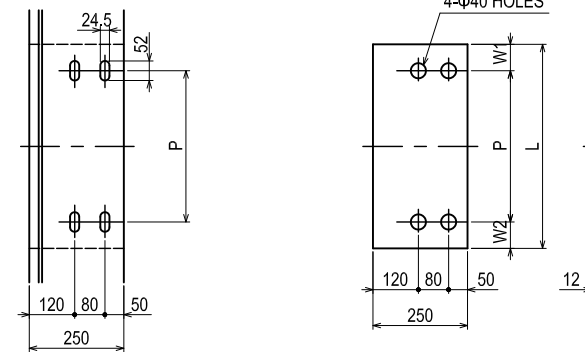


SECTION K-K



SECTION J-J

NOTE : MAKE SURE THAT THE BOLT HOLE OF THE GIRDER IS A LONG HOLE TO THE BRIDGE AXIAL DIRECTION.



27 LINER PL

4-Φ40 HOLES

| NO. | THE NAME OF AN ARTICLE | MATERIAL     |
|-----|------------------------|--------------|
| 1   | END BEAM               | S355J2+AR    |
| 2   | MIDDLE BEAM            | S355J2+N     |
| 3   | SEAL RUBBER            | CR           |
| 4   | WEB                    | SM490A       |
| 5   | BOX                    | SM490A       |
| 6   | SUPPORTING BEAM        | SM490A       |
| 7   | BUSH                   | POLYETHYLENE |
| 8   | SPRING                 | NR           |
| 9   | EB BEARING             | NR           |
| 10  | MB BEARING             | NR           |
| 11  | SPRING-FACE A          | SM490A       |
| 12  | BEARING-FACE A         | SM490A       |
| 13  | SPRING-FACE B          | SM490A       |
| 14  | BEARING-FACE B         | SM490A       |
| 15  | SUS DISK               | SUS316L      |
| 16  | SLIPPING DISK          | METALLOPLAST |
| 17  | PROTECTIVE PL          | SM490A       |
| 18  | ANCHOR                 | SM490A       |
| 19  | COVER                  | SM490A       |
| 20  | PL                     | SM490A       |
| 21  | END PL                 | SM490A       |
| 22  | REINFORCING BAR        | SD345        |
| 23  | STUD                   | JIS B1198    |
| 24  | WELDED WIRE FABRIC     | SUS304       |
| 25  | WIRE RACK              | SR235        |
| 26  | BOTTOM FLANGE          | SM490A       |
| 27  | LINER                  | SS400        |
| 28  | HTB                    | F10T         |
| 29  | SUPPORT                | SM490A       |
| 30  | INSTALLATION JIG       | SS400        |

|     | L    | P    | W1  | W2  | NOS. |
|-----|------|------|-----|-----|------|
| A18 | 1155 | 925  | 120 | 110 | 1    |
| A19 | 575  | 315  | 110 | 150 | 1    |
| A20 | 820  | 550  | 170 | 100 | 1    |
| A21 | 1040 | 840  | 100 | 100 | 1    |
| A22 | 1225 | 1000 | 100 | 125 | 1    |
| A23 | 890  | 640  | 130 | 120 | 1    |

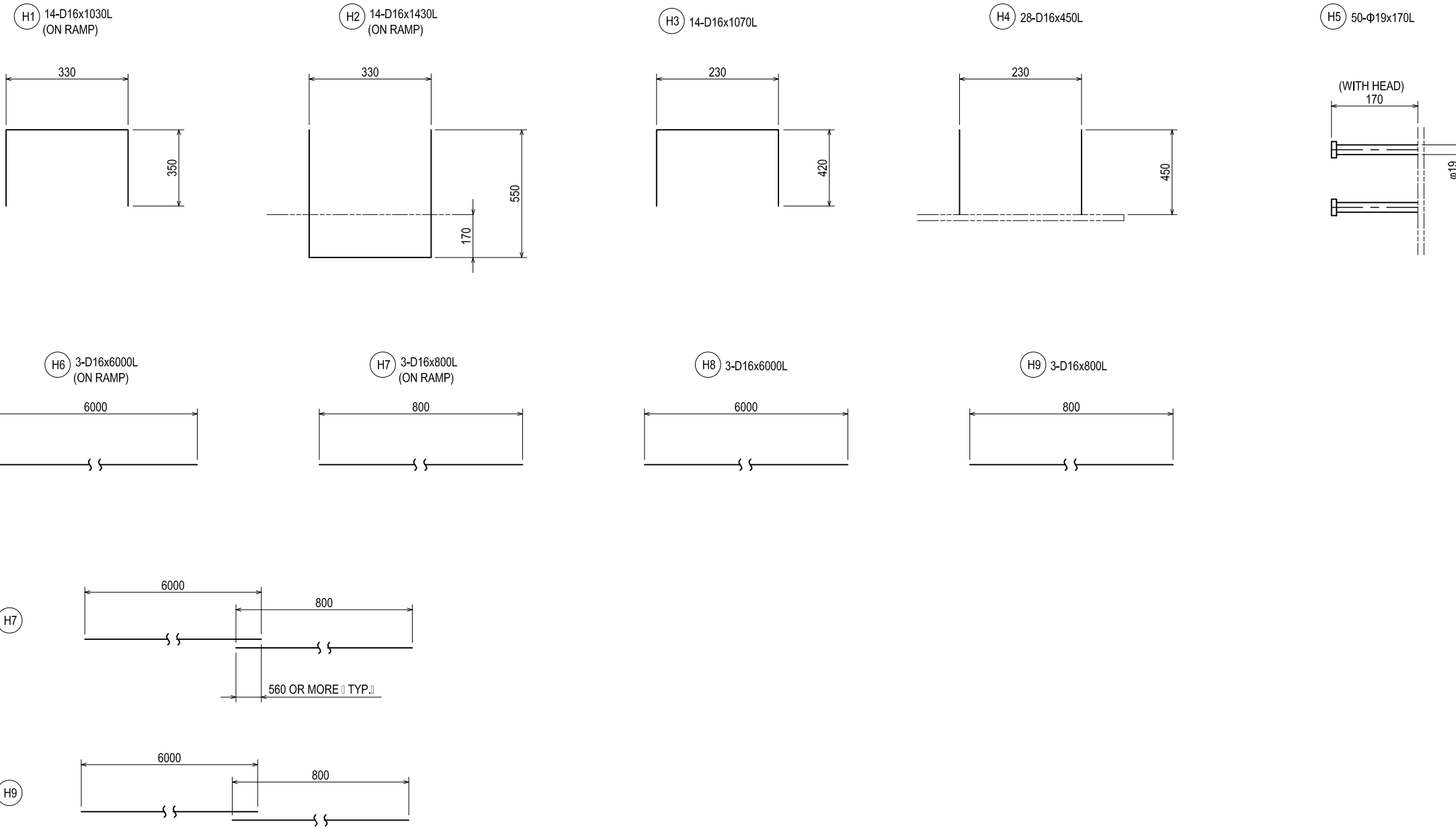
### NOTES:

- 1 - THIS DRAWING SHOWS THE CONDITION OF EXPANSION GAP "a"=40mm(AT 25) PER CELL.
- 2 - PAINTING : CONCRETE BONDING SECTIONS PAINTED WITH ZINC-RICH PRIMER (15mm) AND FOR SECTIONS REMAINING MODIFIED EPOXY RESIN IS PAINTED TWICE (TOP COATING: BLACK).
- 3 - FOR WELDING POINTS WITHOUT INSTRUCTIONS, IMPLEMENT FILLET WELDING OF 6mm.
- 4 - (22) SITE WELDING IS IMPLEMENTED PARTIALLY ON THE RE-BAR.
- 5 - (H) BE SURE TO MAKE PREPARATION FOR RE-BAR AND STUDS AT TIME OF SUPERSTRUCTURE WORK.
- 6 - THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.

| 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. | S. IMADA    | <i>S. Imada</i>    | 27 Nov.2017 | EXPANSION JOINT PIER P5 ON RAMP (3) | 1          |
|   |   |  |   | T. HAYAKAWA | <i>T. Hayakawa</i> | 28 Nov.2017 |                                     | DWG No.    |
|   |   |  |   | Y. SANO     | <i>Y. Sano</i>     | 29 Nov.2017 |                                     | P1-SB-3018 |

# EXPANSION JOINT PIER P5 ON RAMP (4) S=1:10

## EJ-4C DETAIL DRAWING(2/3)

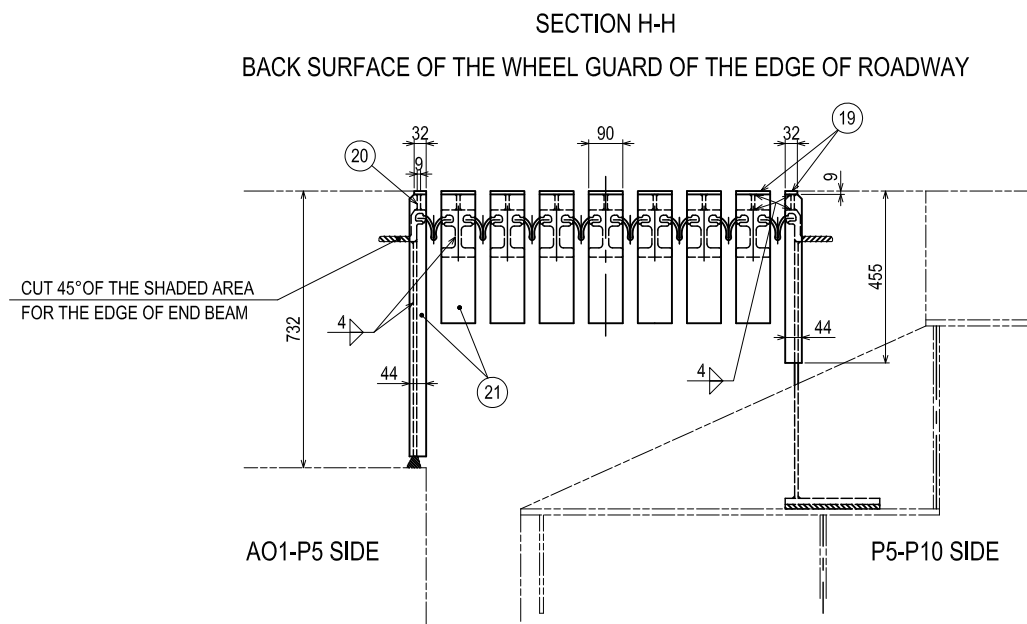
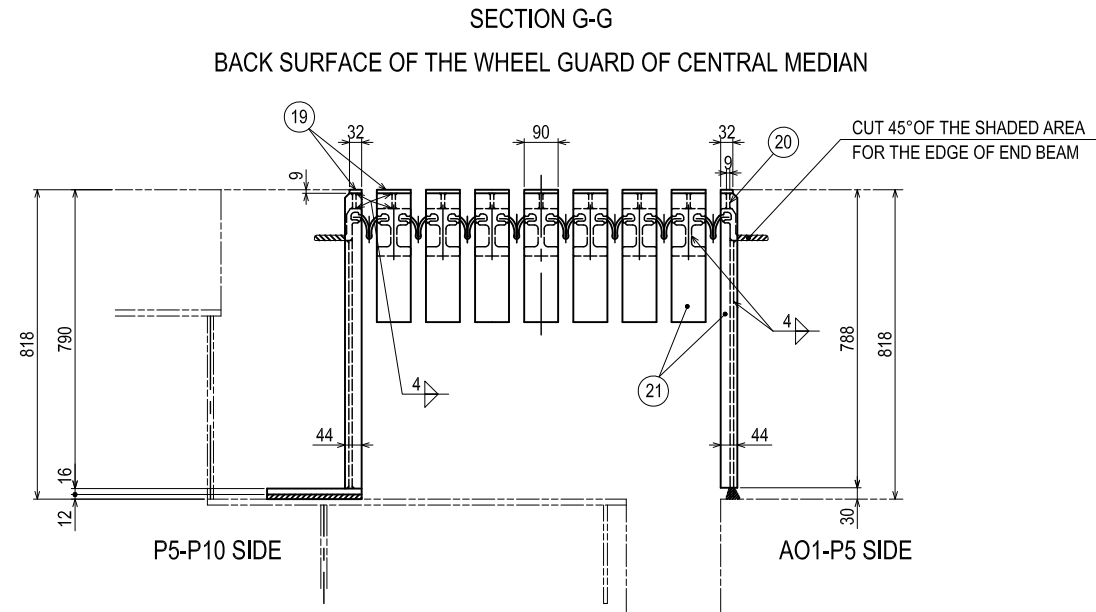
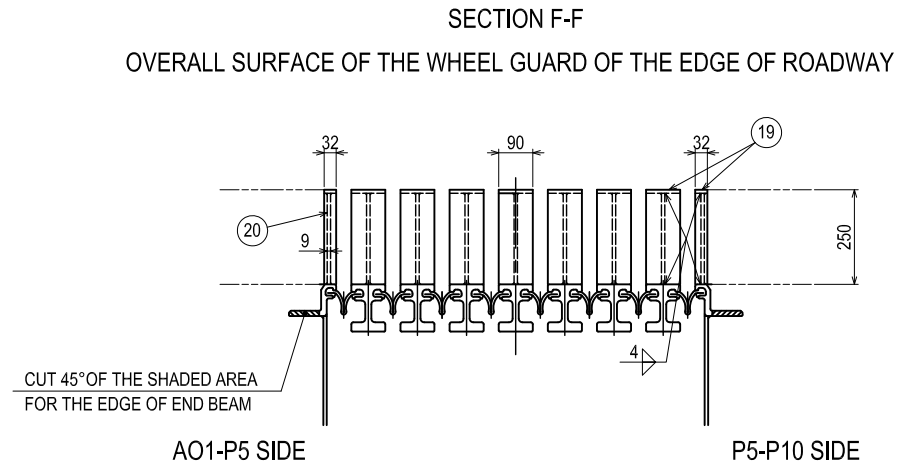


- NOTES:**
- 1 - (H) BE SURE TO MAKE PREPARATIONS FOR RE-BAR AT TIME OF SUPERSTRUCTURE WORK.
  - 2 - (H4) (H5) BE SURE TO IMPLEMENT RE-BAR AT THE TIME OF FABRICATION OF THE DECK PL.
  - 3 - CUT OFF ON-SITE THE SURPLUS LENGTH OF THE RE-BAR.

|   |  |   |  |             |             |      |  |             |            |
|---|--|---|--|-------------|-------------|------|--|-------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>EXPANSION JOINT PIER P5 ON RAMP (4) | 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-SB-3019 |

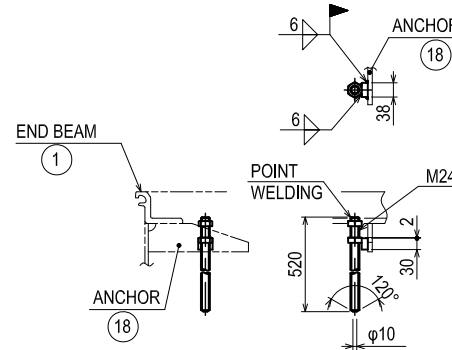
# EXPANSION JOINT PIER P5 ON RAMP (5) S=1:20

## EJ-4C DETAIL DRAWING(3/3)



### 30 INSTALLATION JIG

NOTE : INSTALLATION ANCHOR PL BETWEEN BOXES OF PC BOX GIRDER, CUT OFF ON-SITE THE SURPLUS LENGTH OF THE RE-BAR.



| NO. | THE NAME OF AN ARTICLE | MATERIAL     |
|-----|------------------------|--------------|
| 1   | END BEAM               | S355J2+AR    |
| 2   | MIDDLE BEAM            | S355J2+N     |
| 3   | SEAL RUBBER            | CR           |
| 4   | WEB                    | SM490A       |
| 5   | BOX                    | SM490A       |
| 6   | SUPPORTING BEAM        | SM490A       |
| 7   | BUSH                   | POLYETHYLENE |
| 8   | SPRING                 | NR           |
| 9   | EB BEARING             | NR           |
| 10  | MB BEARING             | NR           |
| 11  | SPRING-FACE A          | SM490A       |
| 12  | BEARING-FACE A         | SM490A       |
| 13  | SPRING-FACE B          | SM490A       |
| 14  | BEARING-FACE B         | SM490A       |
| 15  | SUS DISK               | SUS316L      |
| 16  | SLIPPING DISK          | METALLOPLAST |
| 17  | PROTECTIVE PL          | SM490A       |
| 18  | ANCHOR                 | SM490A       |
| 19  | COVER                  | SM490A       |
| 20  | PL                     | SM490A       |
| 21  | END PL                 | SM490A       |
| 22  | REINFORCING BAR        | SD345        |
| 23  | STUD                   | JIS B1198    |
| 24  | WELDED WIRE FABRIC     | SUS304       |
| 25  | WIRE RACK              | SR235        |
| 26  | BOTTOM FLANGE          | SM490A       |
| 27  | LINER                  | SS400        |
| 28  | HTB                    | F10T         |
| 29  | SUPPORT                | SM490A       |
| 30  | INSTALLATION JIG       | SS400        |

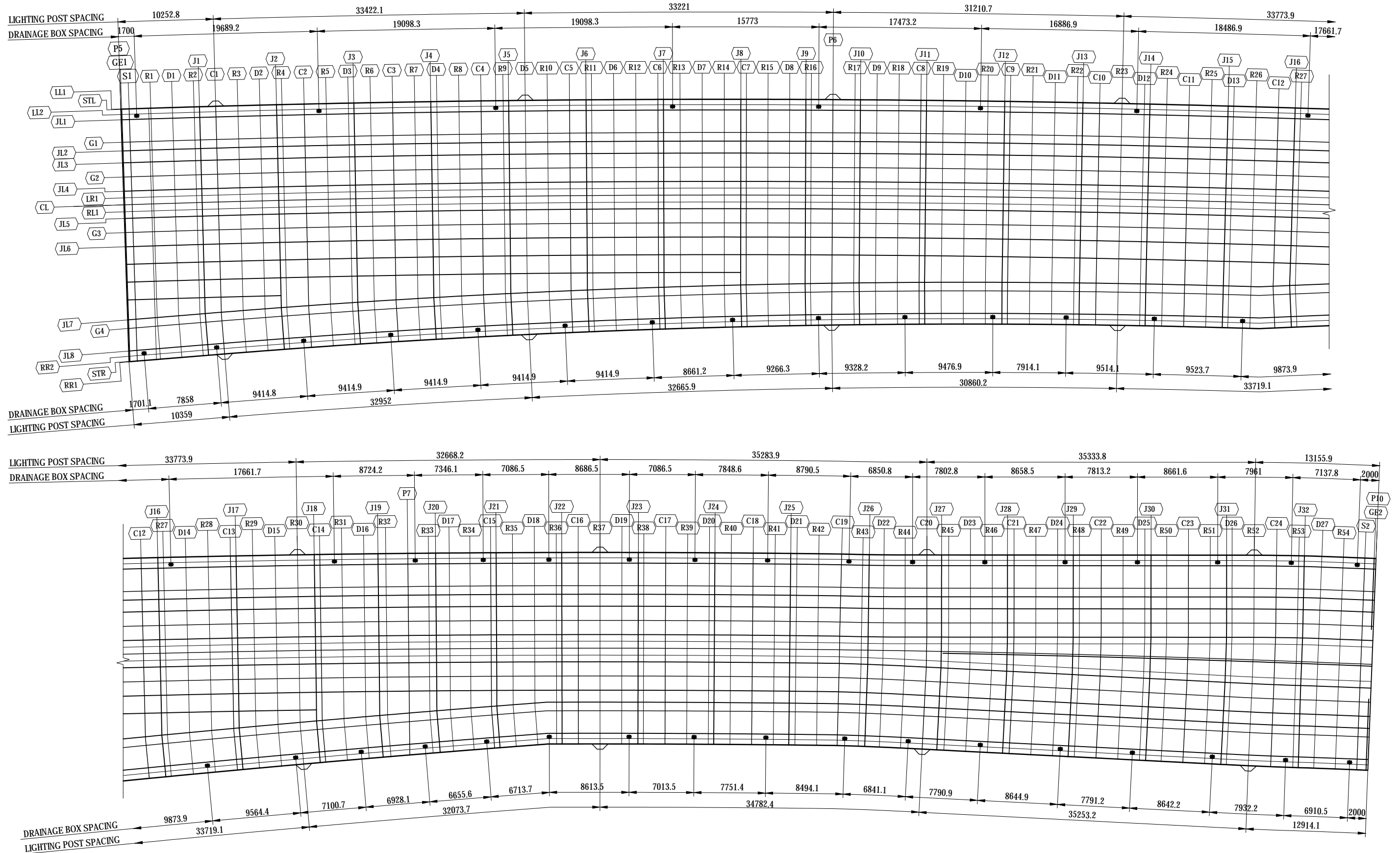
### NOTES:

- THIS DRAWING SHOWS THE CONDITION OF EXPANSION GAP "A"=40mm(AT 25) PER CELL.
- PAINTING : CONCRETE BONDING SECTIONS PAINTED WITH ZINC-RICH PRIMER (15mm), AND FOR SECTIONS REMAINING MODIFIED EPOXY RESIN IS PAINTED TWICE (TOP COATING: BLACK).
- FOR WELDING POINTS WITHOUT INSTRUCTIONS, IMPLEMENT FILLET WELDING OF 6mm.
- SITE WELDING IS IMPLEMENTED PARTIALLY ON THE RE-BAR.
- BE SURE TO MAKE PREPARATION FOR RE-BAR AND STUDS AT TIME OF SUPERSTRUCTURE WORK.
- THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.

| 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. | S. IMADA    | <i>S. Imada</i>    | 27 Nov.2017 | EXPANSION JOINT PIER P5 ON RAMP (5) | 1          |
|   |   |  |   | T. HAYAKAWA | <i>T. Hayakawa</i> | 28 Nov.2017 |                                     | DWG No.    |
|   |   |  |   | Y. SANO     | <i>Y. Sano</i>     | 29 Nov.2017 |                                     | P1-SB-3020 |

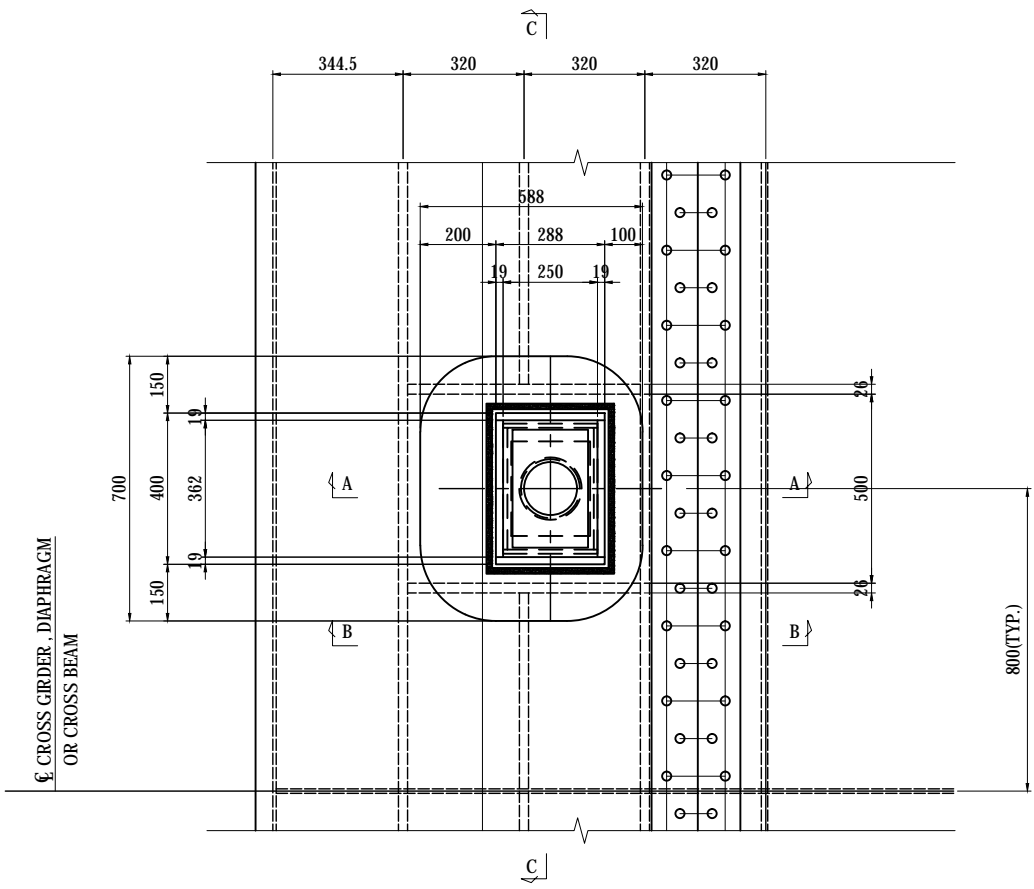
# ANCILLARY WORKS LAYOUT

S=1:400

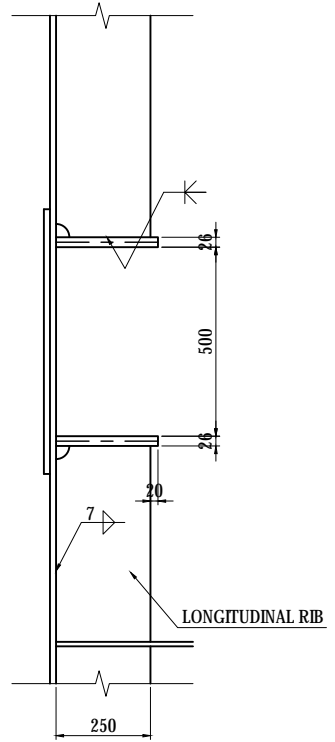


|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>ANCILLARY WORKS LAYOUT | PACKAGE      |            |
|   |  |   |  | PREPARED BY | S. IMADA    |      |   | 29 Sept.2017 | DWG No.    |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |   | 3 Oct.2017   | P1-SB-3021 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |   | 6 Oct.2017   |            |

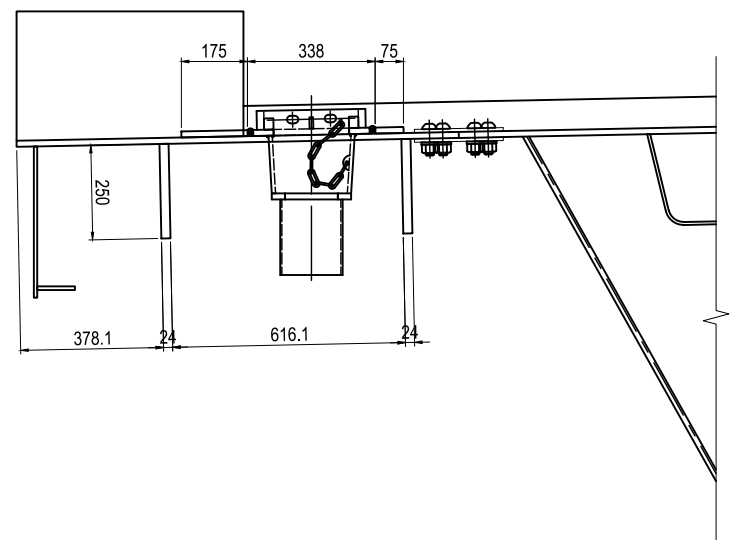
# DETAIL OF DRAINAGE (1) S=1:20



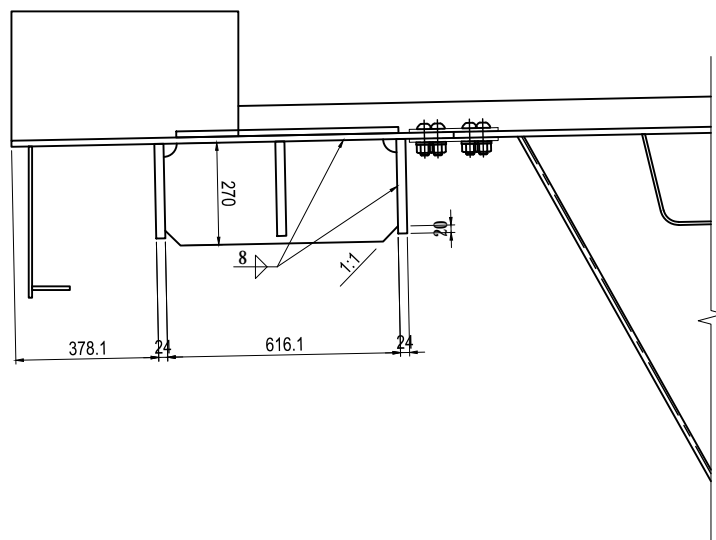
SECTION C-C



SECTION A-A



SECTION B-B

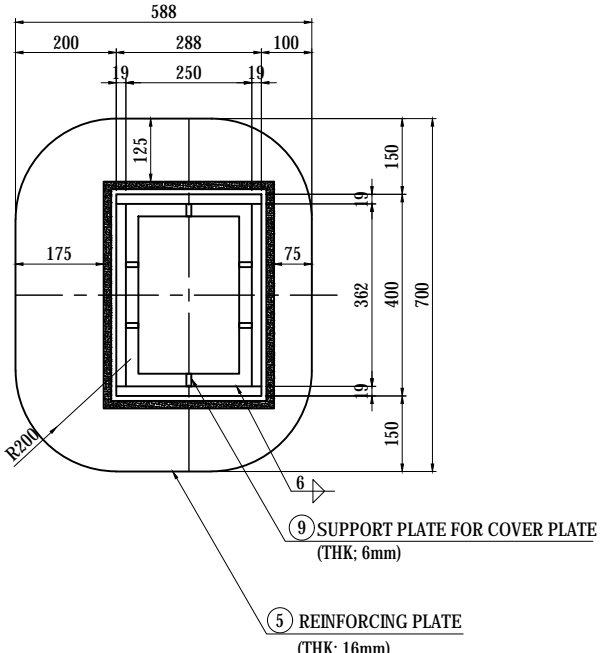


| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. |  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"></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>S. IMADA</td> <td></td> <td>29 Sept.2017</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td></td> <td>3 Oct.2017</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td></td> <td>6 Oct.2017</td> </tr> </tbody> </table> |  | NAME | SIGNATURE | DATE | PREPARED BY | S. IMADA |  | 29 Sept.2017 | CHECKED BY | T. HAYAKAWA |  | 3 Oct.2017 | APPROVED BY | Y. SANO |  | 6 Oct.2017 | <small>DRAWING TITLE</small><br><b>DETAIL OF DRAINAGE (1)</b> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-SB-3022 |
|--|---|--|---|--|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|------------|-------------|---------|--|------------|---|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |  |      |           |      |             |          |  |              |            |             |  |            |             |         |  |            |   |  |
| PREPARED BY  | S. IMADA  |  | 29 Sept.2017  |  |  |  |      |           |      |             |          |  |              |            |             |  |            |             |         |  |            |   |  |
| CHECKED BY   | T. HAYAKAWA   |  | 3 Oct.2017  |  |  |  |      |           |      |             |          |  |              |            |             |  |            |             |         |  |            |   |  |
| APPROVED BY  | Y. SANO   |  | 6 Oct.2017  |  |  |  |      |           |      |             |          |  |              |            |             |  |            |             |         |  |            |   |  |

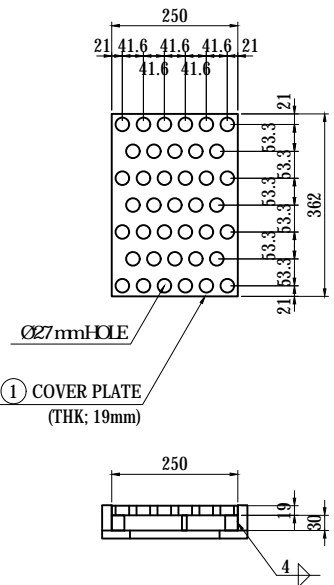
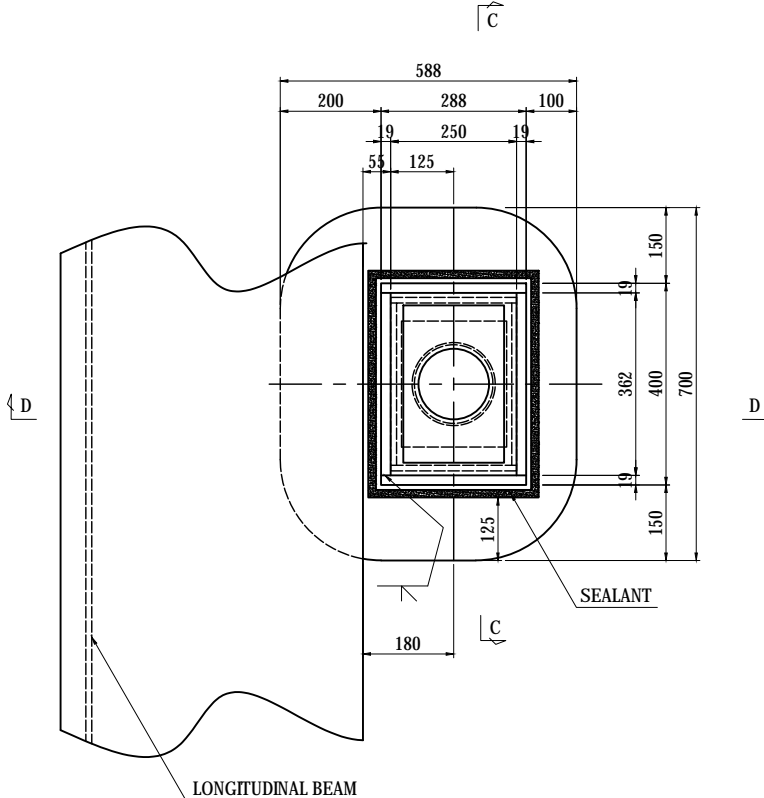


# DETAIL OF DRAINAGE (2) S=1:15

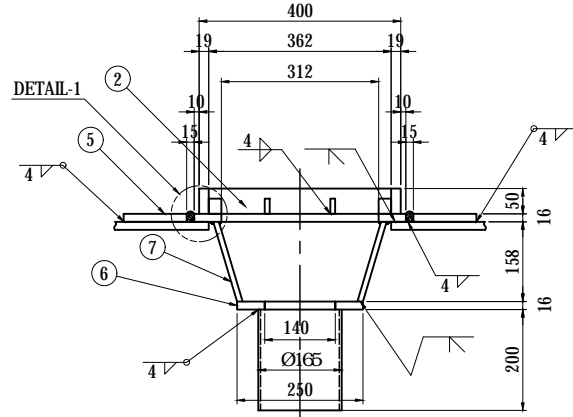
SECTION A-A



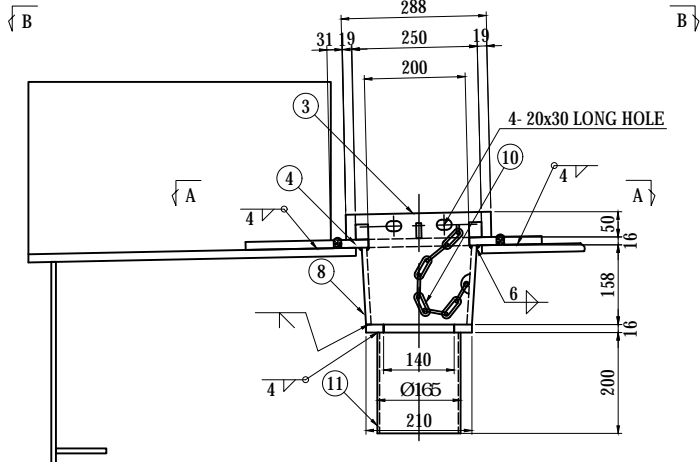
SECTION B-B



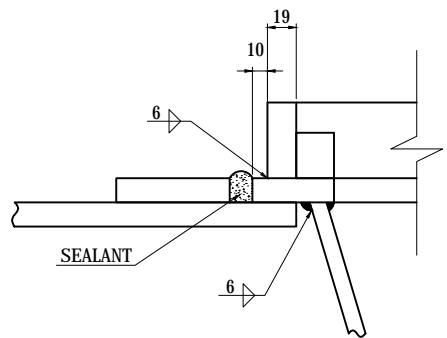
SECTION C-C



SECTION D-D



DETAIL -1 S=1:5



- ① 1-COVER PL 250x19x362 (SS400)
- ② 2-PL 50x19x362
- ③ 2-PL 50x19x288
- ④ 1-PL 308x16x420
- ⑤ 1-REINFORCING PL 588x16x700
- ⑥ 1-PL 210x16x250
- ⑦ 2-PL 165x10x229
- ⑧ 2-PL 157x10x322
- ⑨ 6-PL 25x10x30
- ⑩ 1-Chain 5 x25(SUS304)
- ⑪ 1-PIPE 165x45x200(STK400)

|   |   |   |  |             |             |              |   |                                       |
|---|---|---|--|-------------|-------------|--------------|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>jica JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE         | DRAWING TITLE<br>DETAIL OF DRAINAGE (2) | PACKAGE<br>1<br>DWG No.<br>P1-SB-3023 |
|   |   |   |  | PREPARED BY | S. IMADA    | 29 Sept.2017 |   |                                       |
|   |   |   |  | CHECKED BY  | T. HAYAKAWA | 3 Oct.2017   |   |                                       |
|   |   |   |  | APPROVED BY | Y. SANO     | 6 Oct.2017   |   |                                       |

# DETAIL OF DRAINAGE (3)

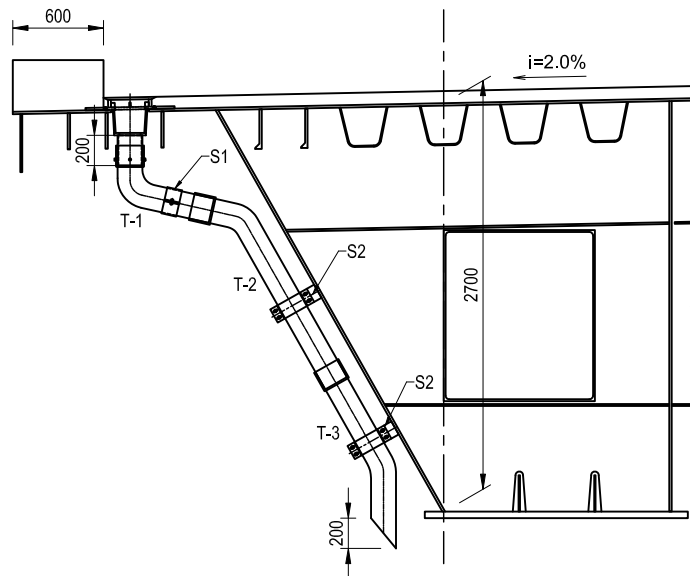
S=1:50

## MATERIAL LIST

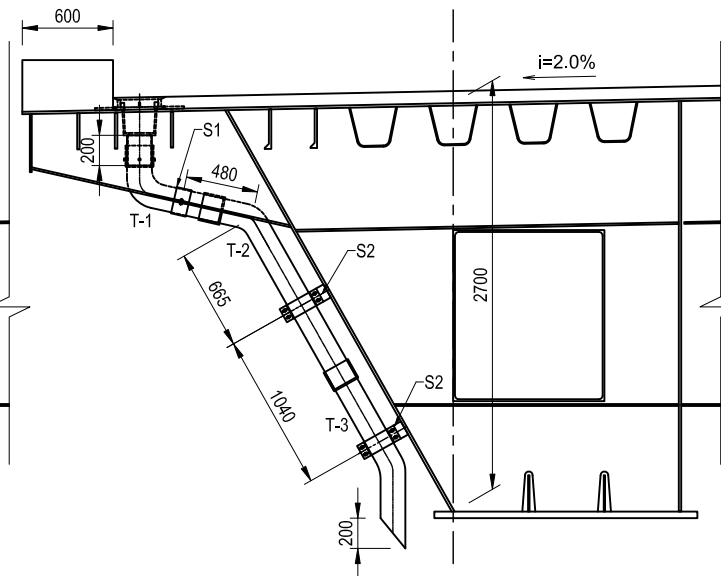
| No.       | Item                           | Size          | Material   | Width (mm) | Length (mm) | Thickness (mm) | Area (mm <sup>2</sup> ) | Used Area (mm <sup>2</sup> ) | Unit Weight (kg/m <sup>2</sup> ) | Weight (kg/pce) | Number | Weight(kg) | Total Length (m) | Remarks |
|-----------|--------------------------------|---------------|------------|------------|-------------|----------------|-------------------------|------------------------------|----------------------------------|-----------------|--------|------------|------------------|---------|
| 1.        | Cover Plate (Thk; 19 mm)       | 250x362x19 mm | SS400      | 250        | 362         | 19             | 90500                   | 68170.29                     | 7850                             | 10.17           | 1      | 10.17      | -                |         |
| 2.        | Plate (Thk; 19 mm)             | 50x362x19 mm  | SM400      | 50         | 362         | 19             | 18100                   | 18100                        | 7850                             | 2.70            | 2      | 5.4        | -                | *       |
| 3.        | Plate (Thk; 19 mm)             | 50x288x19 mm  | SM400      | 50         | 288         | 19             | 14400                   | 14400                        | 7850                             | 2.15            | 2      | 4.30       | -                | *       |
| Sub-Total |                                |               |            |            |             |                |                         |                              |                                  |                 |        | 19.87      |                  |         |
| 4.        | Plate (Thk; 16 mm)             | 308x420x16 mm | SM400      | 308        | 420         | 16             | 129360                  | 66960                        | 7850                             | 8.41            | 1      | 8.41       | -                | *       |
| 5.        | Reinforcing Plate (Thk; 16 mm) | 588x700x16 mm | SM400      | 588        | 700         | 16             | 411600                  | 259500                       | 7850                             | 32.59           | 1      | 32.59      | -                | *       |
| 6.        | Plate (Thk; 16 mm)             | 210x250x16 mm | SM400      | 210        | 250         | 16             | 52500                   | 37106.65                     | 7850                             | 4.66            | 1      | 4.66       | -                |         |
| Sub-Total |                                |               |            |            |             |                |                         |                              |                                  |                 |        | 45.66      |                  |         |
| 7.        | Plate (Thk; 10 mm)             | 165x229x10 mm | SM400      | 165        | 229         | 10             | 37785                   | 36217.50                     | 7850                             | 2.84            | 2      | 5.68       | -                | *       |
| 8.        | Plate (Thk; 10 mm)             | 157x322x10 mm | SM400      | 157        | 322         | 10             | 50554                   | 44902                        | 7850                             | 3.52            | 2      | 7.04       | -                | *       |
| 9.        | Plate (Thk; 10 mm)             | 25x30x10 mm   | SM400      | 25         | 30          | 10             | 750                     | 750                          | 7850                             | 0.06            | 6      | 0.36       | -                | *       |
| Sub-Total |                                |               |            |            |             |                |                         |                              |                                  |                 |        | 13.08      |                  |         |
| 10.       | Chain 5 mmØ x 250              | -             | SUS304     | -          | -           | -              | -                       | -                            | -                                | -               | 1      | -          | -                | *       |
| 11.       | Plate (Thk; 8 mm)              | 100x140x8 mm  | SM400A     | 100        | 140         | 8              | 14000                   | 14000                        | 7850                             | 0.88            | 1      | 0.88       | -                |         |
| 12.       | Plate (Thk; 8 mm)              | 100x106x8 mm  | SM400A     | 100        | 106         | 8              | 10600                   | 10600                        | 7850                             | 0.67            | 2      | 1.34       | -                |         |
| Sub-Total |                                |               |            |            |             |                |                         |                              |                                  |                 |        | 2.22       |                  |         |
| 13.       | FB (Thk; 6 mm)                 | 100x491x6 mm  | SS400      | 100        | 491         | 6              | 49100                   | 49100                        | 7850                             | 2.31            | 1      | 2.31       | -                | *       |
| 14.       | FB (Thk; 6 mm)                 | 100x365x6 mm  | SS400      | 100        | 365         | 6              | 36500                   | 36500                        | 7850                             | 1.72            | 4      | 6.88       | -                | *       |
| Sub-Total |                                |               |            |            |             |                |                         |                              |                                  |                 |        | 9.19       |                  |         |
| 15.       | BN (M12x40(2-W))               | -             | JIS B 3507 | -          | -           | -              | -                       | -                            | -                                | -               | 4      | -          | -                | *       |
| 16.       | BN (M12x40(2-W))               | -             | JIS B 3507 | -          | -           | -              | -                       | -                            | -                                | -               | 8      | -          | -                | *       |
| Sub-Total |                                |               |            |            |             |                |                         |                              |                                  |                 |        | 12         |                  |         |
| 17.       | BN (M12x45(2-W))               | -             | JIS B 3507 | -          | -           | -              | -                       | -                            | -                                | -               | 4      | -          | -                | *       |
| 18.       | T1                             | -             | VP150A     | -          | 718         | -              | -                       | -                            | -                                | -               | 1      | -          | 0.718            |         |
| 19.       | T2                             | -             | VP150A     | -          | 1456        | -              | -                       | -                            | -                                | -               | 1      | -          | 1.456            |         |
| 20.       | T3                             | -             | VP150A     | -          | 1063        | -              | -                       | -                            | -                                | -               | 1      | -          | 1.063            |         |
| Sub-Total |                                |               |            |            |             |                |                         |                              |                                  |                 |        | 3.237      |                  |         |
| 21.       | Sleeve                         | -             | VP150A     | -          | 142         | -              | -                       | -                            | -                                | -               | 3      | -          | 0.426            |         |
| Total     |                                |               |            |            |             |                |                         |                              |                                  |                 |        | 90.02      |                  |         |

Note: The Notation (\*) in the table shows galvanized material in accordance with the Specifications.

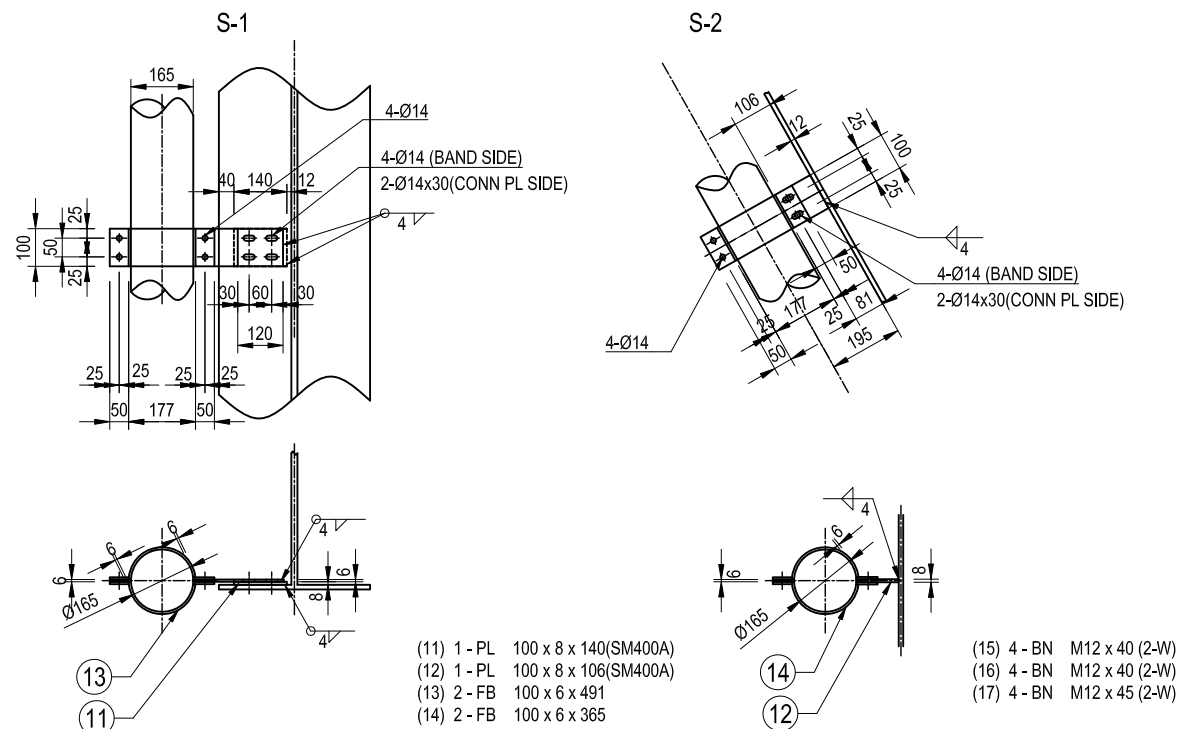
### CROSS SECTION(1)



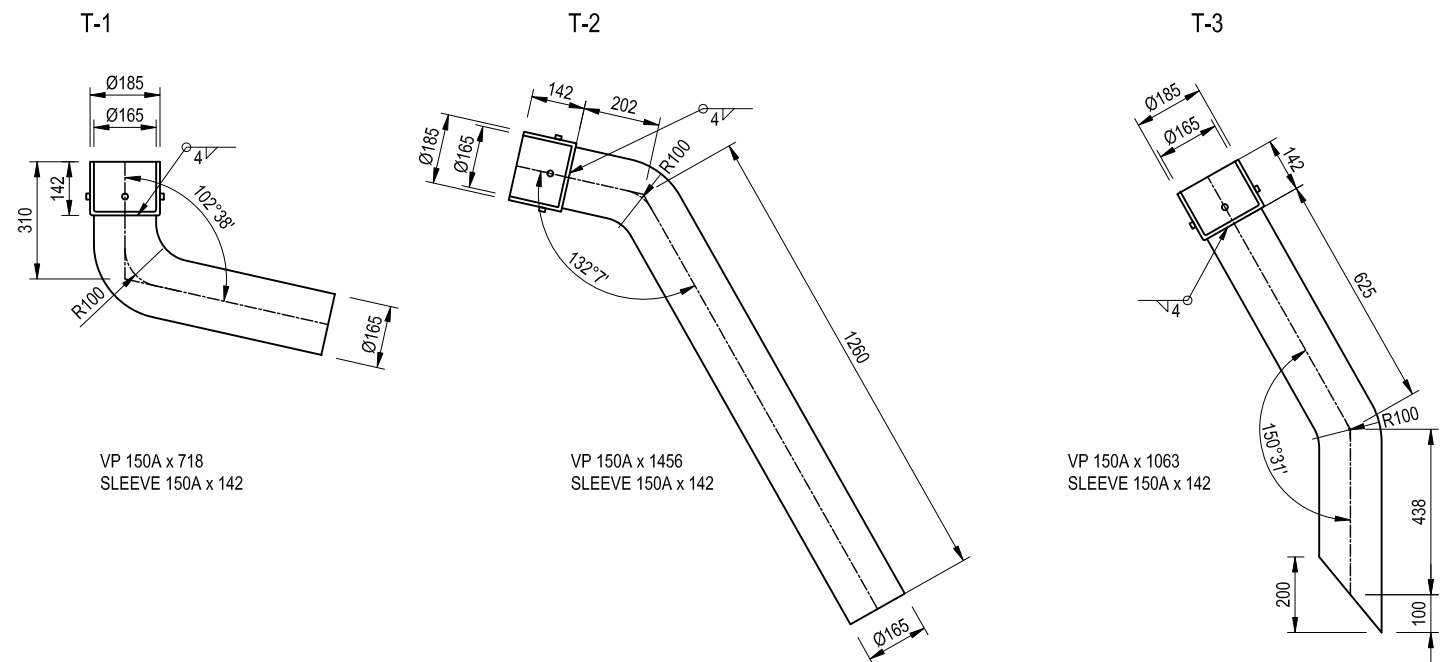
### CROSS SECTION(2)



### SUPPORT DEVICES S=1:20



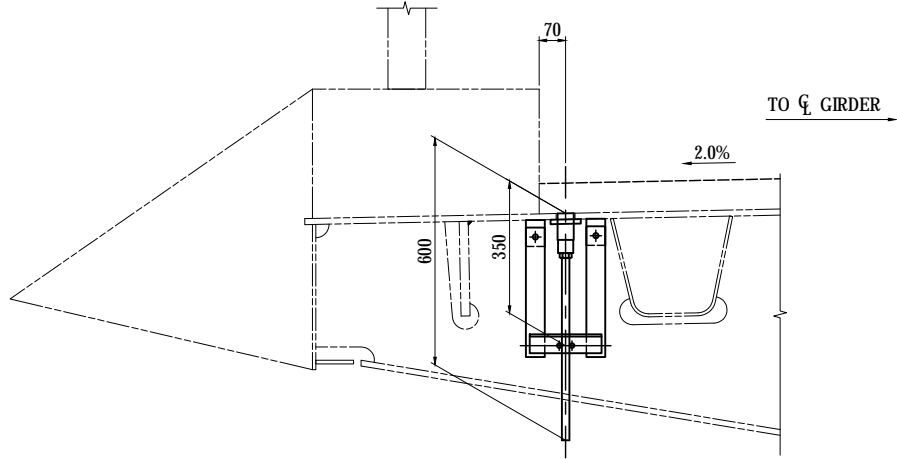
### BENDING PIPE S=1:20



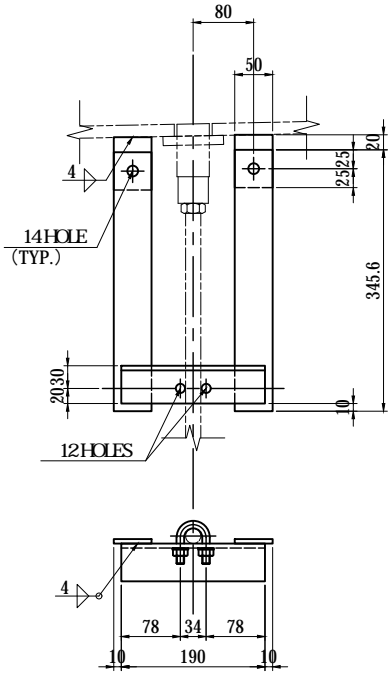
|   |   |   |  |             |             |              |   |                                       |
|---|---|---|--|-------------|-------------|--------------|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>jica JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE         | DRAWING TITLE<br>DETAIL OF DRAINAGE (3) | PACKAGE<br>1<br>DWG No.<br>P1-SB-3024 |
|   |   |   |  | PREPARED BY | S. IMADA    | 29 Sept.2017 |   |                                       |
|   |   |   |  | CHECKED BY  | T. HAYAKAWA | 3 Oct.2017   |   |                                       |
|   |   |   |  | APPROVED BY | Y. SANO     | 6 Oct.2017   |   |                                       |

# DETAIL OF DRAINAGE (4) S=1:20

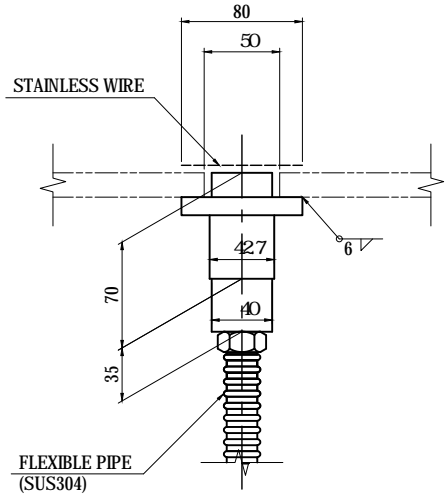
## DETAIL OF FLOOR DRAINAGE



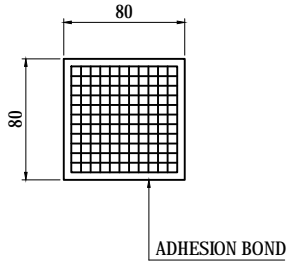
STEADY PIECE DETAIL S=1:10



FLEXIBLE PIPE DETAIL S=1:5



STAINLESS WIRE DETAIL S=1:5



- 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)

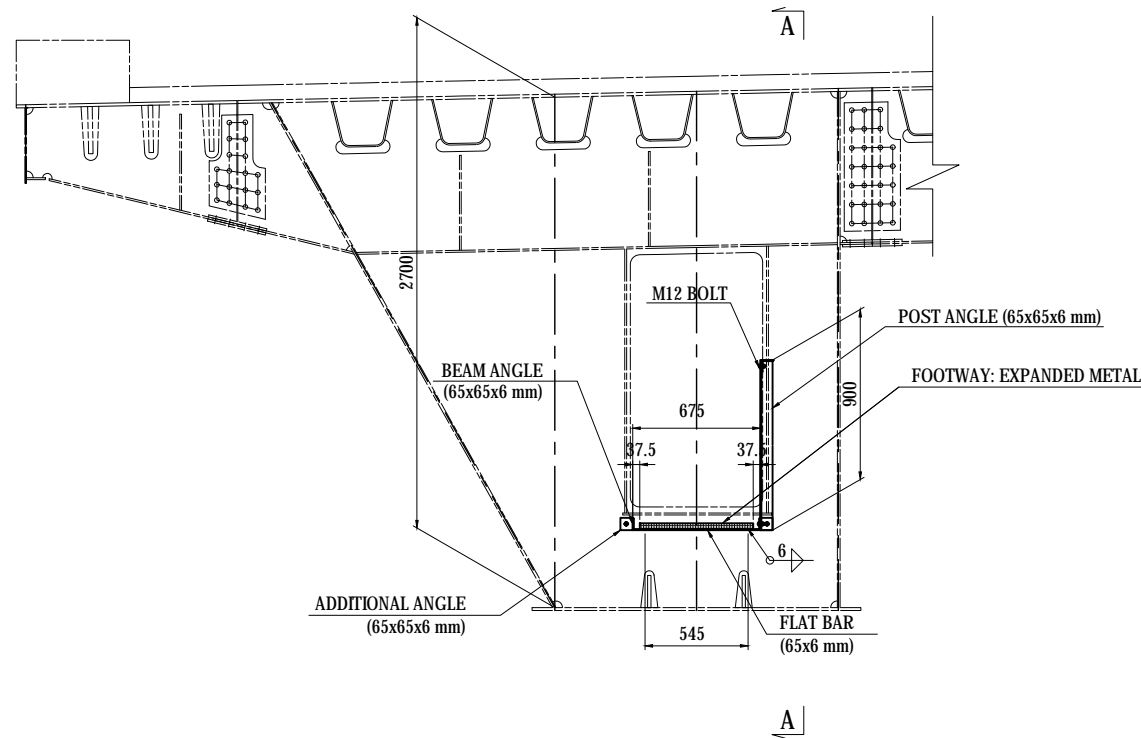
**NOTES:**  
 1 - HOT-DIP GALVANIZED COATING OVER 550g/m<sup>2</sup>, 350g/m<sup>2</sup> (FOR BOLT, WASHER & NUT AND MEMBER WITH A THICKNESS OF LESS THAN 3.2mm)  
 2 - Floor Drainage shall be installed at maximum 5m interval and Quantity is estimated at nos.116.

|   |  |   |  |             |             |      |                        |            |              |
|---|--|---|--|-------------|-------------|------|------------------------|------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>NIPPON ENGINEERING CONSULTANTS CO.,LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE          | PACKAGE    |              |
|   |  |   |  | PREPARED BY | S. IMADA    |      |                        |            | 29 Sept.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |                        |            | 3 Oct.2017   |
|   |  |   |  | APPROVED BY | Y. SANO     |      |                        |            | 6 Oct.2017   |
|   |  |   |  |             |             |      | DETAIL OF DRAINAGE (4) | 1          |              |
|   |  |   |  |             |             |      |                        | DWG No.    |              |
|   |  |   |  |             |             |      |                        | P1-SB-3025 |              |

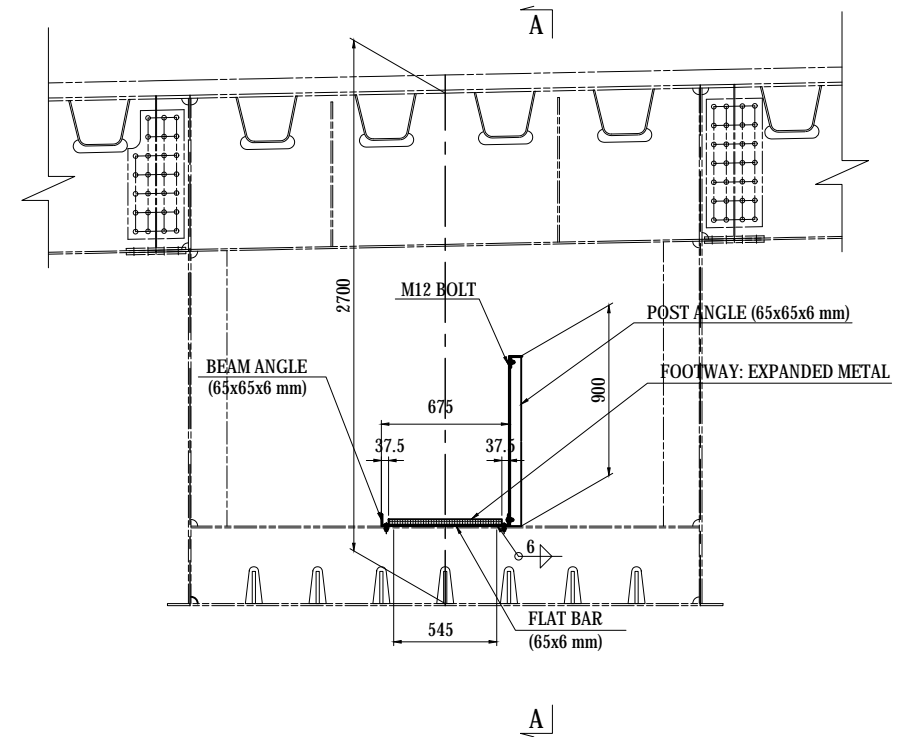


# INSPECTION WALKWAY (1) S=1:40

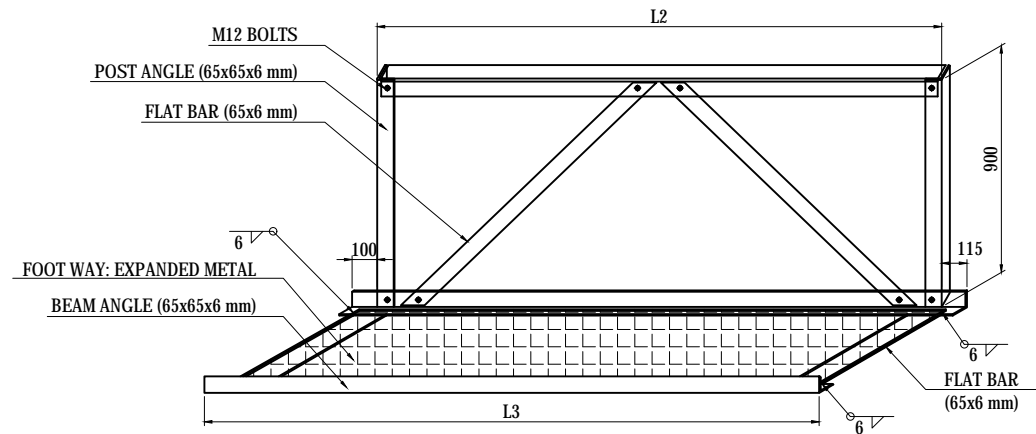
## CROSS GIRDER & DIAPHRAGM SECTION



## CROSS BEAM SECTION



## INSEPECTION WALKWAY UNIT S=1:30



|   |  |   |  |             |             |      |               |         |              |                        |            |
|---|--|---|--|-------------|-------------|------|---------------|---------|--------------|------------------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE | PACKAGE |              |                        |            |
|   |  |   |  | PREPARED BY | S. IMADA    |      |               |         | 29 Sept.2017 | INSPECTION WALKWAY (1) | 1          |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |               |         | 3 Oct.2017   |                        | DWG No.    |
|   |  |   |  | APPROVED BY | Y. SANO     |      |               |         | 6 Oct.2017   |                        | P1-SB-3031 |



# INSPECTION WALKWAY(3) S=1:40

## G1

|        | L1     | L2     | L3     | L4    | LL1  | LL2  | LL3  | Q'ty |
|--------|--------|--------|--------|-------|------|------|------|------|
| IN1-1  | 2232.5 | 1972.5 | 2187.5 | 40.5  | 2188 | 1941 | 2148 | 4    |
| IN1-2  | 2311.8 | 2051.8 | 2266.8 | 119.8 | 2267 | 2020 | 2227 | 1    |
| IN1-3  | 2311.9 | 2051.9 | 2266.9 | 119.9 | 2267 | 2020 | 2227 | 1    |
| IN1-4  | 2312   | 2052   | 2267   | 120   | 2267 | 2020 | 2227 | 1    |
| IN1-5  | 2325   | 2065   | 2280   | 133   | 2280 | 2033 | 2240 | 2    |
| IN1-6  | 2332.8 | 2072.8 | 2287.8 | 140.8 | 2288 | 2041 | 2248 | 7    |
| IN1-7  | 2335.9 | 2075.9 | 2290.9 | 143.9 | 2291 | 2044 | 2251 | 1    |
| IN1-8  | 2348.2 | 2088.2 | 2303.2 | 156.2 | 2303 | 2056 | 2263 | 1    |
| IN1-9  | 2352.4 | 2092.4 | 2307.4 | 160.4 | 2307 | 2060 | 2267 | 1    |
| IN1-10 | 2352.5 | 2092.5 | 2307.5 | 160.5 | 2308 | 2061 | 2268 | 1    |
| IN1-11 | 2352.6 | 2092.6 | 2307.6 | 160.6 | 2308 | 2061 | 2268 | 1    |
| IN1-12 | 2352.7 | 2092.7 | 2307.7 | 160.7 | 2308 | 2061 | 2268 | 1    |
| IN1-13 | 2352.8 | 2092.8 | 2307.8 | 160.8 | 2308 | 2061 | 2268 | 1    |
| IN1-14 | 2353   | 2093   | 2308   | 161   | 2308 | 2061 | 2268 | 1    |
| IN1-15 | 2353.1 | 2093.1 | 2308.1 | 161.1 | 2308 | 2061 | 2268 | 1    |
| IN1-16 | 2353.2 | 2093.2 | 2308.2 | 161.2 | 2308 | 2061 | 2268 | 1    |
| IN1-17 | 2353.4 | 2093.4 | 2308.4 | 161.4 | 2308 | 2061 | 2268 | 1    |
| IN1-18 | 2353.5 | 2093.5 | 2308.5 | 161.5 | 2309 | 2062 | 2269 | 1    |
| IN1-19 | 2353.7 | 2093.7 | 2308.7 | 161.7 | 2309 | 2062 | 2269 | 1    |
| IN1-20 | 2353.9 | 2093.9 | 2308.9 | 161.9 | 2309 | 2062 | 2269 | 1    |
| IN1-21 | 2354   | 2094   | 2309   | 162   | 2309 | 2062 | 2269 | 1    |
| IN1-22 | 2354.2 | 2094.2 | 2309.2 | 162.2 | 2309 | 2062 | 2269 | 1    |
| IN1-23 | 2357.9 | 2097.9 | 2312.9 | 165.9 | 2313 | 2066 | 2273 | 15   |
| IN1-24 | 2368.1 | 2108.1 | 2323.1 | 176.1 | 2323 | 2076 | 2283 | 1    |
| IN1-25 | 2370.5 | 2110.5 | 2325.5 | 178.5 | 2326 | 2079 | 2286 | 8    |
| IN1-26 | 2374.5 | 2114.5 | 2329.5 | 182.5 | 2330 | 2083 | 2290 | 1    |
| IN1-27 | 2383   | 2123   | 2338   | 191   | 2338 | 2091 | 2298 | 24   |
| IN1-28 | 2393.9 | 2133.9 | 2348.9 | 201.9 | 2349 | 2102 | 2309 | 1    |
| IN1-29 | 2408.1 | 2148.1 | 2363.1 | 216.1 | 2363 | 2116 | 2323 | 24   |
| IN1-30 | 2418.9 | 2158.9 | 2373.9 | 226.9 | 2374 | 2127 | 2334 | 1    |
| IN1-31 | 2421.5 | 2161.5 | 2376.5 | 229.5 | 2377 | 2130 | 2337 | 1    |

## G2

|        | L1     | L2     | L3     | L4    | LL1  | LL2  | LL3  | Q'ty |
|--------|--------|--------|--------|-------|------|------|------|------|
| IN2-1  | 2228.3 | 1968.3 | 2183.3 | 36.3  | 2183 | 1936 | 2143 | 4    |
| IN2-2  | 2325   | 2065   | 2280   | 133   | 2280 | 2033 | 2240 | 2    |
| IN2-3  | 2328.5 | 2068.5 | 2283.5 | 136.5 | 2284 | 2037 | 2244 | 7    |
| IN2-4  | 2329.8 | 2069.8 | 2284.8 | 137.8 | 2285 | 2038 | 2245 | 1    |
| IN2-5  | 2339.1 | 2079.1 | 2294.1 | 147.1 | 2294 | 2047 | 2254 | 1    |
| IN2-6  | 2341.3 | 2081.3 | 2296.3 | 149.3 | 2296 | 2049 | 2256 | 1    |
| IN2-7  | 2341.4 | 2081.4 | 2296.4 | 149.4 | 2296 | 2049 | 2256 | 1    |
| IN2-8  | 2341.5 | 2081.5 | 2296.5 | 149.5 | 2297 | 2050 | 2257 | 1    |
| IN2-9  | 2351.2 | 2091.2 | 2306.2 | 159.2 | 2306 | 2059 | 2266 | 1    |
| IN2-10 | 2352.4 | 2092.4 | 2307.4 | 160.4 | 2307 | 2060 | 2267 | 2    |
| IN2-11 | 2352.5 | 2092.5 | 2307.5 | 160.5 | 2308 | 2061 | 2268 | 1    |
| IN2-12 | 2352.6 | 2092.6 | 2307.6 | 160.6 | 2308 | 2061 | 2268 | 1    |
| IN2-13 | 2352.7 | 2092.7 | 2307.7 | 160.7 | 2308 | 2061 | 2268 | 1    |
| IN2-14 | 2352.8 | 2092.8 | 2307.8 | 160.8 | 2308 | 2061 | 2268 | 1    |
| IN2-15 | 2353   | 2093   | 2308   | 161   | 2308 | 2061 | 2268 | 1    |
| IN2-16 | 2353.1 | 2093.1 | 2308.1 | 161.1 | 2308 | 2061 | 2268 | 1    |
| IN2-17 | 2353.2 | 2093.2 | 2308.2 | 161.2 | 2308 | 2061 | 2268 | 1    |
| IN2-18 | 2353.4 | 2093.4 | 2308.4 | 161.4 | 2308 | 2061 | 2268 | 1    |
| IN2-19 | 2353.5 | 2093.5 | 2308.5 | 161.5 | 2309 | 2062 | 2269 | 16   |
| IN2-20 | 2353.7 | 2093.7 | 2308.7 | 161.7 | 2309 | 2062 | 2269 | 1    |
| IN2-21 | 2353.9 | 2093.9 | 2308.9 | 161.9 | 2309 | 2062 | 2269 | 1    |
| IN2-22 | 2354   | 2094   | 2309   | 162   | 2309 | 2062 | 2269 | 1    |
| IN2-23 | 2354.2 | 2094.2 | 2309.2 | 162.2 | 2309 | 2062 | 2269 | 1    |
| IN2-24 | 2359.7 | 2099.7 | 2314.7 | 167.7 | 2315 | 2068 | 2275 | 1    |
| IN2-25 | 2364.6 | 2104.6 | 2319.6 | 172.6 | 2320 | 2073 | 2280 | 1    |
| IN2-26 | 2366   | 2106   | 2321   | 174   | 2321 | 2074 | 2281 | 8    |
| IN2-27 | 2369.7 | 2109.7 | 2324.7 | 177.7 | 2325 | 2078 | 2285 | 1    |
| IN2-28 | 2378.6 | 2118.6 | 2333.6 | 186.6 | 2334 | 2087 | 2294 | 24   |
| IN2-29 | 2403.6 | 2143.6 | 2358.6 | 211.6 | 2359 | 2112 | 2319 | 24   |

## G3

|        | L1     | L2     | L3     | L4    | LL1  | LL2  | LL3  | Q'ty |
|--------|--------|--------|--------|-------|------|------|------|------|
| IN3-1  | 2221.7 | 1961.7 | 2176.7 | 29.7  | 2177 | 1930 | 2137 | 4    |
| IN3-2  | 2313.1 | 2053.1 | 2268.1 | 121.1 | 2268 | 2021 | 2228 | 1    |
| IN3-3  | 2320.2 | 2060.2 | 2275.2 | 128.2 | 2275 | 2028 | 2235 | 1    |
| IN3-4  | 2321.5 | 2061.5 | 2276.5 | 129.5 | 2277 | 2030 | 2237 | 7    |
| IN3-5  | 2325   | 2065   | 2280   | 133   | 2280 | 2033 | 2240 | 2    |
| IN3-6  | 2328   | 2068   | 2283   | 136   | 2283 | 2036 | 2243 | 1    |
| IN3-7  | 2332.2 | 2072.2 | 2287.2 | 140.2 | 2287 | 2040 | 2247 | 1    |
| IN3-8  | 2337.8 | 2077.8 | 2292.8 | 145.8 | 2293 | 2046 | 2253 | 1    |
| IN3-9  | 2338   | 2078   | 2293   | 146   | 2293 | 2046 | 2253 | 1    |
| IN3-10 | 2338.4 | 2078.4 | 2293.4 | 146.4 | 2293 | 2046 | 2253 | 1    |
| IN3-11 | 2346.5 | 2086.5 | 2301.5 | 154.5 | 2302 | 2055 | 2262 | 15   |
| IN3-12 | 2347.2 | 2087.2 | 2302.2 | 155.2 | 2302 | 2055 | 2262 | 1    |
| IN3-13 | 2347.3 | 2087.3 | 2302.3 | 155.3 | 2302 | 2055 | 2262 | 1    |
| IN3-14 | 2347.4 | 2087.4 | 2302.4 | 155.4 | 2302 | 2055 | 2262 | 1    |
| IN3-15 | 2347.5 | 2087.5 | 2302.5 | 155.5 | 2303 | 2056 | 2263 | 1    |
| IN3-16 | 2347.6 | 2087.6 | 2302.6 | 155.6 | 2303 | 2056 | 2263 | 1    |
| IN3-17 | 2347.7 | 2087.7 | 2302.7 | 155.7 | 2303 | 2056 | 2263 | 1    |
| IN3-18 | 2347.9 | 2087.9 | 2302.9 | 155.9 | 2303 | 2056 | 2263 | 1    |
| IN3-19 | 2348   | 2088   | 2303   | 156   | 2303 | 2056 | 2263 | 1    |
| IN3-20 | 2348.1 | 2088.1 | 2303.1 | 156.1 | 2303 | 2056 | 2263 | 1    |
| IN3-21 | 2348.3 | 2088.3 | 2303.3 | 156.3 | 2303 | 2056 | 2263 | 1    |
| IN3-22 | 2348.4 | 2088.4 | 2303.4 | 156.4 | 2303 | 2056 | 2263 | 1    |
| IN3-23 | 2348.5 | 2088.5 | 2303.5 | 156.5 | 2304 | 2057 | 2264 | 1    |
| IN3-24 | 2348.6 | 2088.6 | 2303.6 | 156.6 | 2304 | 2057 | 2264 | 1    |
| IN3-25 | 2348.8 | 2088.8 | 2303.8 | 156.8 | 2304 | 2057 | 2264 | 1    |
| IN3-26 | 2349   | 2089   | 2304   | 157   | 2304 | 2057 | 2264 | 1    |
| IN3-27 | 2352.4 | 2092.4 | 2307.4 | 160.4 | 2307 | 2060 | 2267 | 1    |
| IN3-28 | 2357.3 | 2097.3 | 2312.3 | 165.3 | 2312 | 2065 | 2272 | 1    |
| IN3-29 | 2359   | 2099   | 2314   | 167   | 2314 | 2067 | 2274 | 8    |
| IN3-30 | 2371.4 | 2111.4 | 2326.4 | 179.4 | 2326 | 2079 | 2286 | 24   |
| IN3-31 | 2396.4 | 2136.4 | 2351.4 | 204.4 | 2351 | 2104 | 2311 | 24   |

## G4

|        | L1     | L2     | L3     | L4    | LL1  | LL2  | LL3  | Q'ty |
|--------|--------|--------|--------|-------|------|------|------|------|
| IN4-1  | 2222.4 | 1962.4 | 2177.4 | 30.4  | 2177 | 1930 | 2137 | 1    |
| IN4-2  | 2222.6 | 1962.6 | 2177.6 | 30.6  | 2178 | 1931 | 2138 | 1    |
| IN4-3  | 2222.7 | 1962.7 | 2177.7 | 30.7  | 2178 | 1931 | 2138 | 1    |
| IN4-4  | 2272.1 | 2012.1 | 2227.1 | 80.1  | 2227 | 1980 | 2187 | 1    |
| IN4-5  | 2276.6 | 2016.6 | 2231.6 | 84.6  | 2232 | 1985 | 2192 | 1    |
| IN4-6  | 2286.2 | 2026.2 | 2241.2 | 94.2  | 2241 | 1994 | 2201 | 1    |
| IN4-7  | 2291.1 | 2031.1 | 2246.1 | 99.1  | 2246 | 1999 | 2206 | 1    |
| IN4-8  | 2297.3 | 2037.3 | 2252.3 | 105.3 | 2252 | 2005 | 2212 | 1    |
| IN4-9  | 2305   | 2045   | 2260   | 113   | 2260 | 2013 | 2220 | 1    |
| IN4-10 | 2308.3 | 2048.3 | 2263.3 | 116.3 | 2263 | 2016 | 2223 | 1    |
| IN4-11 | 2308.6 | 2048.6 | 2263.6 | 116.6 | 2264 | 2017 | 2224 | 1    |
| IN4-12 | 2308.9 | 2048.9 | 2263.9 | 116.9 | 2264 | 2017 | 2224 | 1    |
| IN4-13 | 2312.5 | 2052.5 | 2267.5 | 120.5 | 2268 | 2021 | 2228 | 3    |
| IN4-14 | 2313.6 | 2053.6 | 2268.6 | 121.6 | 2269 | 2022 | 2229 | 1    |
| IN4-15 | 2313.7 | 2053.7 | 2268.7 | 121.7 | 2269 | 2022 | 2229 | 1    |
| IN4-16 | 2313.9 | 2053.9 | 2268.9 | 121.9 | 2269 | 2022 | 2229 | 1    |
| IN4-17 | 2325   | 2065   | 2280   | 133   | 2280 | 2033 | 2240 | 2    |
| IN4-18 | 2342.1 | 2082.1 | 2297.1 | 150.1 | 2297 | 2050 | 2257 | 12   |
| IN4-19 | 2344.1 | 2084.1 | 2299.1 | 152.1 | 2299 | 2052 | 2259 | 1    |
| IN4-20 | 2346.4 | 2086.4 | 2301.4 | 154.4 | 2301 | 2054 | 2261 | 1    |
| IN4-21 | 2347.2 | 2087.2 | 2302.2 | 155.2 | 2302 | 2055 | 2262 | 1    |
| IN4-22 | 2347.3 | 2087.3 | 2302.3 | 155.3 | 2302 | 2055 | 2262 | 1    |
| IN4-23 | 2347.4 | 2087.4 | 2302.4 | 155.4 | 2302 | 2055 | 2262 | 1    |
| IN4-24 | 2347.5 | 2087.5 | 2302.5 | 155.5 | 2303 | 2056 | 2263 | 1    |
| IN4-25 | 2347.6 | 2087.6 | 2302.6 | 155.6 | 2303 | 2056 | 2263 | 1    |
| IN4-26 | 2347.7 | 2087.7 | 2302.7 | 155.7 | 2303 | 2056 | 2263 | 1    |
| IN4-27 | 2347.8 | 2087.8 | 2302.8 | 155.8 | 2303 | 2056 | 2263 | 1    |
| IN4-28 | 2347.9 | 2087.9 | 2302.9 | 155.9 | 2303 | 2056 | 2263 | 1    |
| IN4-29 | 2348   | 2088   | 2303   | 156   | 2303 | 2056 | 2263 | 2    |
| IN4-30 | 2348.1 | 2088.1 | 2303.1 | 156.1 | 2303 | 2056 | 2263 | 1    |
| IN4-31 | 2348.3 | 2088.3 | 2303.3 | 156.3 | 2303 | 2056 | 2263 | 1    |
| IN4-32 | 2348.5 | 2088.5 | 2303.5 | 156.5 | 2304 | 2057 | 2264 | 1    |
| IN4-33 | 2348.6 | 2088.6 | 2303.6 | 156.6 | 2304 | 2057 | 2264 | 1    |
| IN4-34 | 2348.8 | 2088.8 | 2303.8 | 156.8 | 2304 | 2057 | 2264 | 1    |
| IN4-35 | 2349   | 2089   | 2304   | 157   | 2304 | 2057 | 2264 | 1    |
| IN4-36 | 2349.8 | 2089.8 | 2304.8 | 157.8 | 2305 | 2058 | 2265 | 3    |
| IN4-37 | 2358.7 | 2098.7 | 2313.7 | 166.7 | 2314 | 2067 | 2274 | 1    |
| IN4-38 | 2358.9 | 2098.9 | 2313.9 | 166.9 | 2314 | 2067 | 2274 | 1    |
| IN4-39 | 2359.1 | 2099.1 | 2314.1 | 167.1 | 2314 | 2067 | 2274 | 1    |
| IN4-40 |        |        |        |       |      |      |      |      |





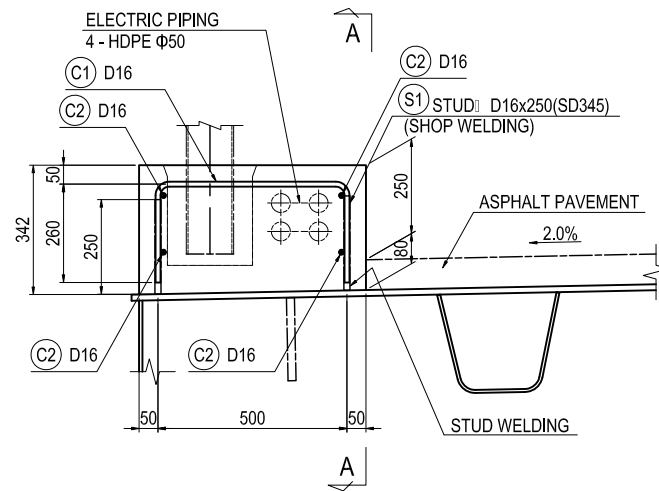


# DETAIL OF RAILING (3) S=1:20

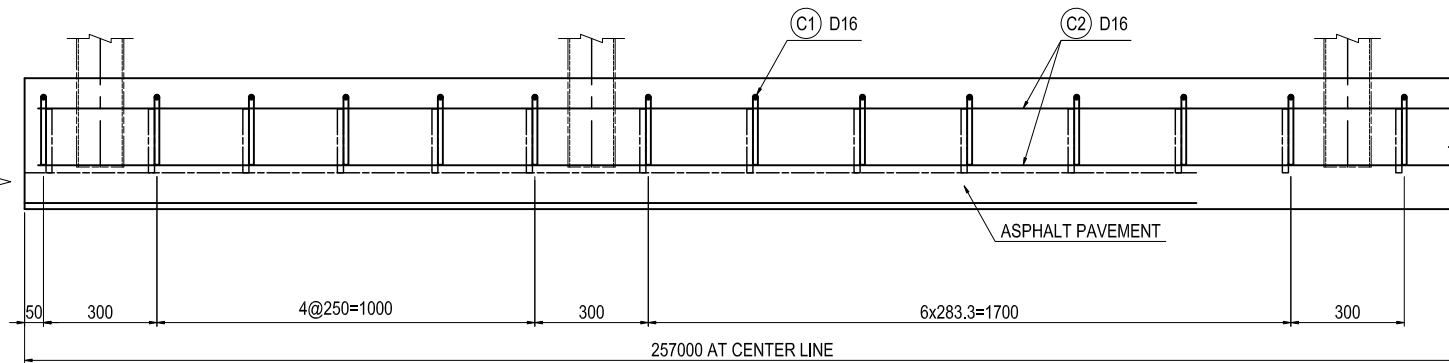
## DETAIL OF COPING AND MEDIAN

### WHEEL GUARD DETAIL

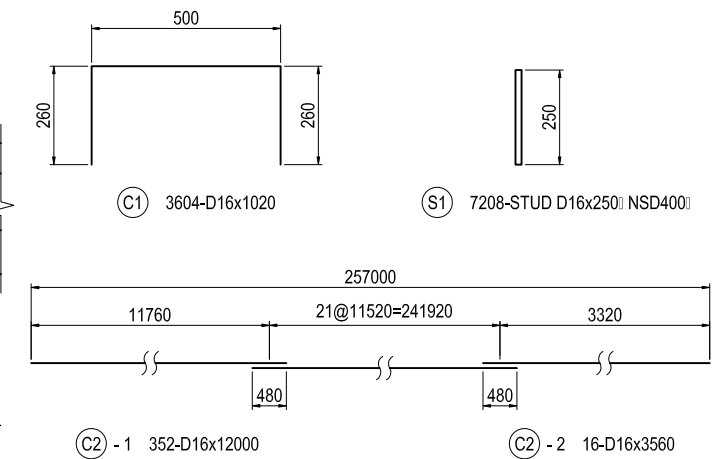
#### CROSS SECTION OF WHEEL GUARD



#### SECTION A-A

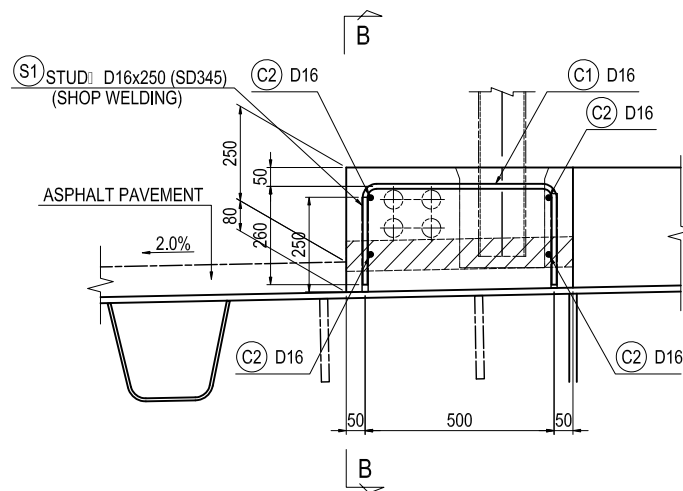


#### REINFORCING BAR BENDING SCHEDULE

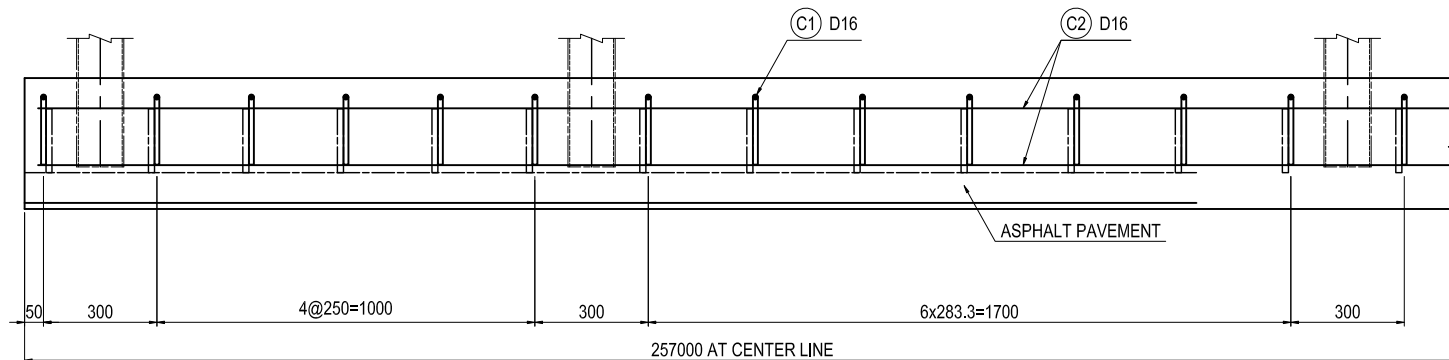


### MEDIAN STRIP DETAIL

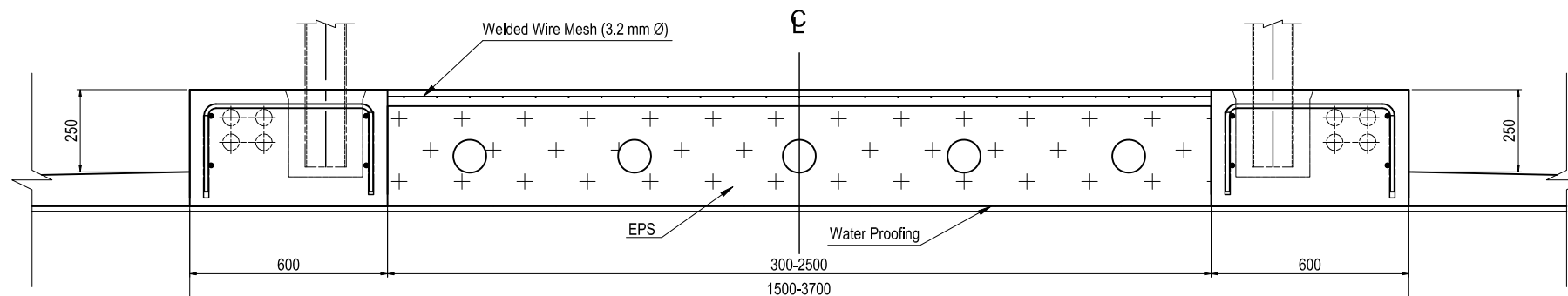
#### CROSS SECTION OF MEDIAN STRIP



#### SECTION B-B



### CROSS SECTION OF MEDIAN



#### SUMMARY OF MEMBERS

| MEMBER           | Q'TY                  | REMARKS                               |
|------------------|-----------------------|---------------------------------------|
| REINFORCING BAR  | 12410kg               | SD345                                 |
| STUD             | 2811kg                | SD345 FOR STUD WELDING                |
| CONCRETE(COPING) | 204.53m <sup>3</sup>  | σ <sub>ck</sub> =24N /mm <sup>2</sup> |
| COVER CONCRETE   | 3.94m <sup>3</sup>    | σ <sub>ck</sub> =24N /mm <sup>2</sup> |
| FORM             | 430.77 m <sup>2</sup> |                                       |
| EPS              | 22.07 m <sup>3</sup>  |                                       |
| Welded Wire Mesh | 78.8 m <sup>2</sup>   | 3.2 mm φ                              |
| Waterproofing    | 78.8 m <sup>2</sup>   |                                       |

#### NOTES:

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

|   |  |   |  |             |             |             |  |                                       |
|---|--|---|--|-------------|-------------|-------------|--|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE        | DRAWING TITLE<br>DETAIL OF RAILING (3) | PACKAGE<br>1<br>DWG No.<br>P1-SB-3043 |
|   |  |   |  | PREPARED BY | S. IMADA    | 27 Nov.2017 |  |                                       |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA | 28 Nov.2017 |  |                                       |
|   |  |   |  | APPROVED BY | Y. SANO     | 29 Nov.2017 |  |                                       |

(REFERENCE) QUANTITY TABLE OF SUPER STRUCTURE

Not to Scale

Quantity of Main Girder

unit: kg

| Category  | Grade    | Thickness・Size | Main Girder | Deck Plate Including Cross Beam | Sum       |
|-----------|----------|----------------|-------------|---------------------------------|-----------|
| PL        | SM570-H  | 44--41         | 30,781      |                                 | 30,781    |
|           | SM570    | 38--10         | 138,191     |                                 | 138,191   |
|           | SM520C-H | 57--41         | 35,976      | 1,728                           | 37,704    |
|           | SM490YB  | 40--17         | 377,544     | 82,216                          | 459,760   |
|           | SM490YA  | 16--9          | 713,831     | 298,605                         | 1,012,436 |
|           | SM490C   | 53--41         | 6,265       |                                 | 6,265     |
|           | SM490B   | 38             |             | 418                             | 418       |
|           | SM400A   | 32--6          | 184,601     | 944,033                         | 1,128,634 |
|           | SS400    | 21--2.3        | 13,024      | 147,802                         | 160,826   |
|           | Sum      | Subtotal       | 1,500,213   | 1,474,802                       | 2,975,015 |
| U-Shape   | SM490YA  | 320*240*8      |             | 92,871                          | 92,871    |
|           | SM400A   | 320*240*8      |             | 194,269                         | 194,269   |
|           | Sum      | Subtotal       |             | 287,140                         | 287,140   |
| TCB       | S10T     | M 22           | 48,752      | 63,654                          | 112,406   |
| HTB       | F10T     | M 22           | 1,810       | 10,149                          | 11,959    |
| TCB&HTB   | Sum      | Subtotal       | 50,562      | 73,803                          | 124,365   |
| FB        | SS400    | 50*6           | 758         | 115                             | 873       |
|           | Sum      | Subtotal       | 758         | 115                             | 873       |
| RB        | SS400    | 13 φ           | 254         |                                 | 254       |
|           | Sum      | Subtotal       | 254         |                                 | 254       |
| BN        | SS400    | M 12           |             | 485                             | 485       |
|           | SUS304   | M 16           |             | 82                              | 82        |
|           | Sum      | Subtotal       |             | 567                             | 567       |
| Pipe      | STK400   | 165.2*4.5      |             | 486                             | 486       |
|           | Sum      | Subtotal       |             | 486                             | 486       |
| Chain     | SUS304   | 5*18*42*250    |             | 54                              | 54        |
| Sum Total |          |                | 1,551,787   | 1,836,967                       | 3,388,754 |

Quantity of Accessories

unit: kg

| Category       | Grade | Thickness・Size | Inspection Walkway | Expansion Joint Support (P5) | Total  |
|----------------|-------|----------------|--------------------|------------------------------|--------|
| Expanded Metal | XG11  | 600            | 8,605              |                              | 8,605  |
| Flat Bar       | SS400 | 65x6           | 4,752              |                              | 4,752  |
| Angle          | SS400 | 65x65x6        | 26,475             |                              | 26,475 |
| Bolt, Nut      | SS400 | M12            | 1,296              |                              | 1,296  |
| Rebar&Stud     | SD345 | 19--16         |                    | 1,239                        | 1,239  |
| Total          |       |                | 41,128             | 1,239                        | 42,367 |

Quantity of Bearing & Expansion Joint

| Bearing Type |                    | P5        | P6        | P7        | P10       |
|--------------|--------------------|-----------|-----------|-----------|-----------|
|              |                    | Elastomer | Elastomer | Elastomer | Elastomer |
| Capacity     | Rmax (KN)          | 3400      | 7000      | 8400      | 4100      |
|              | Displacement X(mm) | ±310      | ±180      | ±170      | ±286      |
|              | Displacement Y(mm) | Fix       | Fix       | Fix       | Fix       |
| Numbers      |                    | 4         | 4         | 4         | 4         |

| Expansion Joint (P5)      | Width  | Length | Capacity | Concrete (24MPa) |
|---------------------------|--------|--------|----------|------------------|
| Modular Type Joint (Main) | 1.04 m | 20.7 m | 444 mm   | 9.9 m3           |
| Modular Type Joint (Ramp) | 0.78 m | 6.5 m  | 444 mm   | 3.1 m3           |

Quantity of Drainage

| Material               | Number | Total Length |
|------------------------|--------|--------------|
| VP with steel fittings | 54     | 182.466 m    |

Quantity of Painting Area

Unit M2

| Painting System | C-5              | D-5              | F-11                                  | F-12                                  | J                                    | E   |
|-----------------|------------------|------------------|---------------------------------------|---------------------------------------|--------------------------------------|---|
|                 | Exterior surface | Interior surface | Exterior surface of bolted connection | Interior surface of bolted connection | Contact surface of bolted connection | Interior surface of steel deck in contact with concrete |
| Area            | 18335.64         | 18918.32         | 2549.8                                | 1297.72                               | 7941.49                              | 7308.43   |

(REFERENCE) QUANTITY TABLE OF SUB STRUCTURE

Not to Scale

QUANTITY TABLE OF RC PIER COLUMN AND BEAM STRUCTURE

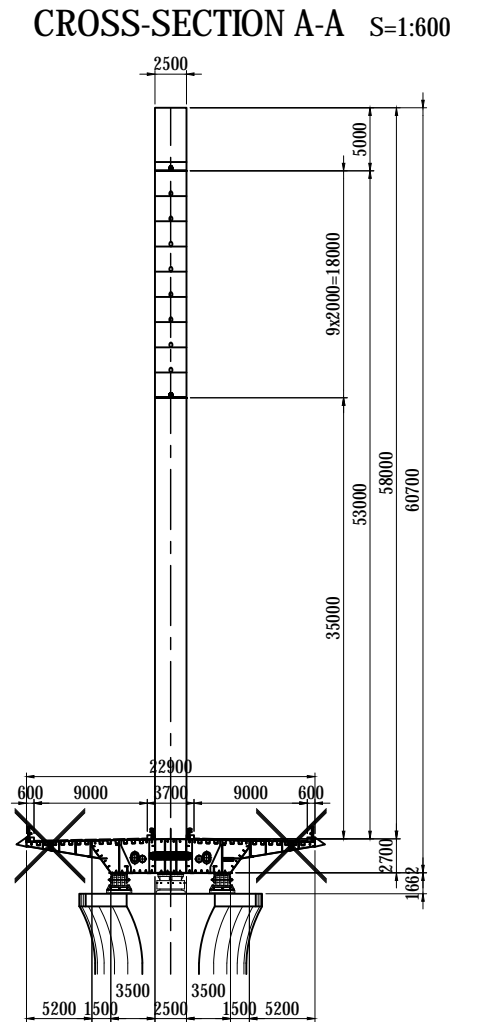
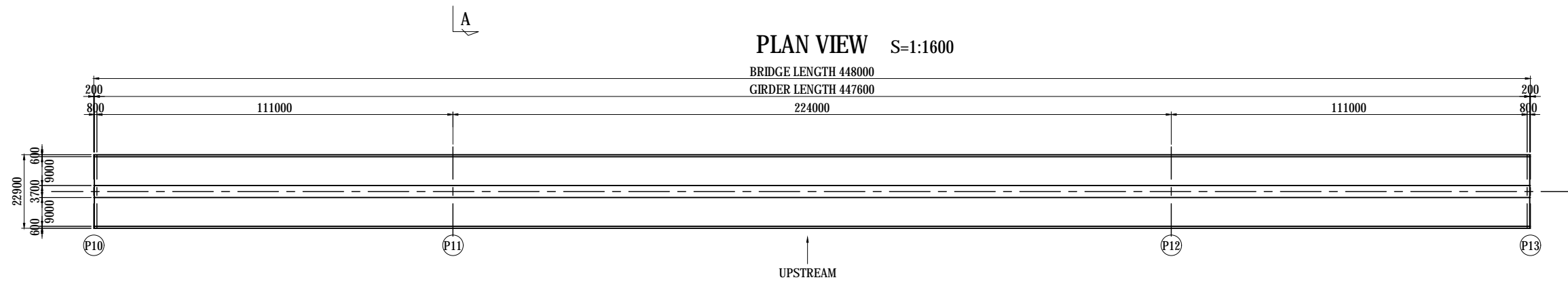
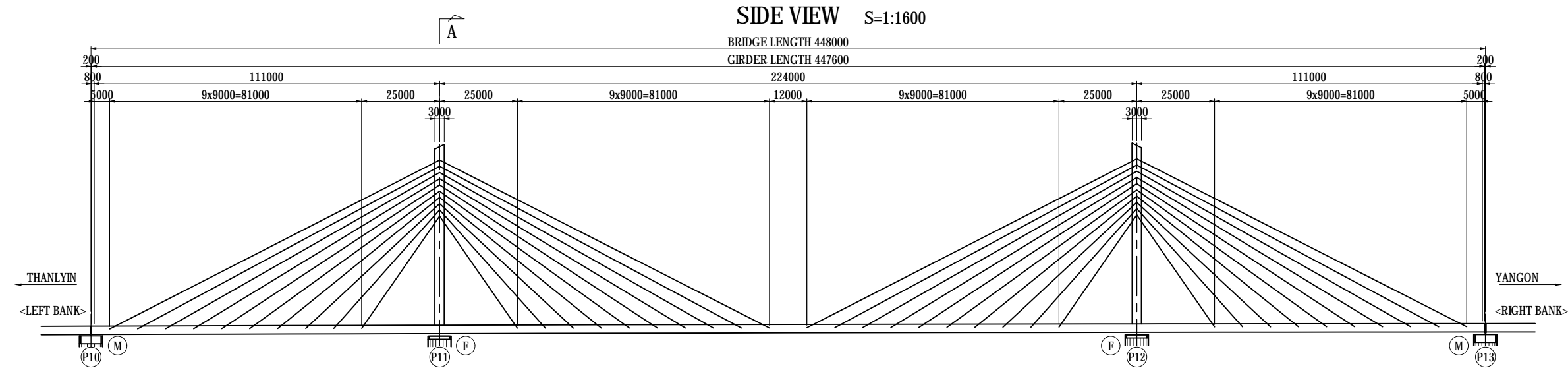
| Structure Component                                  | Work Item | Specification                 | Division  | Unit           | Quantity |         | Total   |
|--|-----------|-------------------------------|-----------|----------------|----------|---------|---------|
|  |           |                               |           |                | P6 PIER  | P7 PIER |         |
| Pier Column and Beam (Reinforced Concrete Structure) | Concrete  | $\sigma_{ck}=30\text{N/mm}^2$ |           | m <sup>3</sup> | 774.4    | 797.5   | 1,571.9 |
|  | Re-bar    | SD345                         | D 13      | kg             | —        | —       | —       |
|  |           |                               | D16 ~ D25 | #              | 43,078   | 55,164  | 98,242  |
|  |           |                               | D29 ~ D32 | #              | 48,900   | 7,241   | 56,141  |
|  |           |                               | D 35      | #              | —        | —       | —       |
|  |           |                               | D 38      | #              | —        | 59,792  | 59,792  |
|  |           |                               | D 51      | #              | —        | —       | —       |
|  |           |                               | Total     | #              | 91,978   | 122,197 | 214,175 |
|  | SD345     | D 32                          | Point     | 342            | —        | 342     |         |
|  |           | D 38                          | #         | —              | 422      | 422     |         |
|  |           | Total                         | #         | 342            | 422      | 764     |         |

QUANTITY TABLE OF STEEL PIPE SHEET PILE FOUNDATION

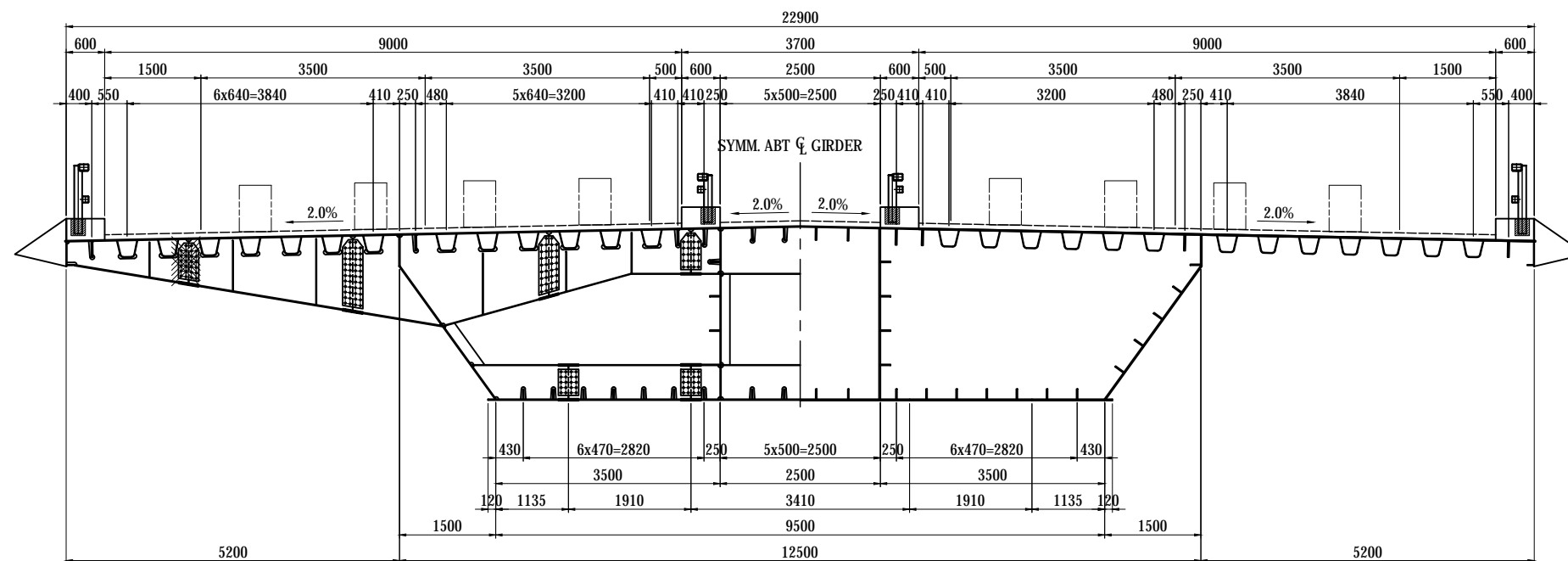
| Structure Component       | Work Item                                 | Division                        |  | Unit           | Quantity |         | Total                  | Remark                          |        |
|---------------------------|---|---------------------------------|--|----------------|----------|---------|------------------------|---------------------------------|--------|
|                           |   |                                 |  |                | P6 PIER  | P7 PIER |                        |                                 |        |
| Steel pipe well           | Steel pipe length( $\phi 1200\text{mm}$ ) |                                 |  | m/Number       | 59.5     | 61.5    | —                      |                                 |        |
|                           |   | Pile number                     |  | Number         | 34       | 32      | 66                     | Outside Steel Pipe Well         |        |
|                           |   |                                 |  | #              | 0        | 4       | 4                      | Diaphragm Steel Sheet Pipe Wall |        |
|                           |   | Total                           |  | #              | 34       | 36      | 70                     |                                 |        |
|                           | Pile extension                            |                                 | m  | 2,023.0        | 2,214.0  | 4,237.0 |                        |                                 |        |
|                           | Steel pipe well                           | Steel pipe weight               | $\phi 1200$  | t=14mm         | t        | 660.552 | 676.488                | 1,337.040                       | SKY400 |
|                           |   |                                 |  | t=16mm         | #        | 190.536 | 261.536                | 452.072                         | SKY400 |
|                           |   |                                 | $\phi 165.2$   | t=11mm         | #        | 163.200 | 185.292                | 348.492                         | STK400 |
|                           |   | Accessories weight              | Reinforcement Band   | PL t=9mm       | t        | 2.720   | 2.880                  | 5.600                           | SS400  |
|                           |   |                                 | Members for Perimeter Field Welding (Backing Ring Stopper) | PL t=14mm      | #        | 0.408   | 0.432                  | 0.840                           | SS400  |
|                           |   |                                 |  | PL t=16mm      | #        | —       | —                      | —                               | SS400  |
|                           |   |                                 | Sling  | PL t=22mm      | #        | 1.224   | 1.296                  | 2.520                           | SM490A |
|                           |   |                                 | Interlocking Toe   | PL t=12mm      | Piece    | 68      | 74                     | 142                             | SS400  |
|                           |   |                                 | In-situ Attached Interlocking                              |                | Point    | 68      | 74                     | 142                             | STK400 |
|                           |   |                                 | Precut   |                | #        | 68      | 74                     | 142                             |        |
|                           | Excavation inside                         | Pile inside                     |  | m <sup>3</sup> | 374.1    | 325.9   | 700.0                  |                                 |        |
|                           |   | Pile head                       |  | #              | 0.0      | 28.1    | 28.1                   |                                 |        |
|                           | Concrete filling                          | Fill concrete                   | $\sigma_{ck}=21\text{N/mm}^2$                              | m <sup>3</sup> | 319.9    | 301.1   | 621.0                  | Correction factor=0.04          |        |
|                           |   | Pile head                       | $\sigma_{ck}=24\text{N/mm}^2$                              | #              | 0.0      | 5.4     | 5.4                    |                                 |        |
|                           | Cleaning inside joint pipe                |                                 |  | m              | 1,738.7  | 1,850.5 | 3,589.2                |                                 |        |
|                           | Mortar filling inside joint pipe          | $\sigma_{ck}=21\text{N/mm}^2$   | Mortar length  | m              | 1,679.9  | 1,813.4 | 3,493.3                | Mortar=2.5m <sup>3</sup> /100m  |        |
|                           |   |                                 | Mortar quantity  | m <sup>3</sup> | 44.1     | 47.6    | 91.7                   | Correction factor=0.05          |        |
|                           | Sealing inside joint pipe                 | $\sigma_{ck}=0.2\text{N/mm}^2$  | Sealing length   | m              | 271.7    | 348.5   | 620.2                  |                                 |        |
|                           |   |                                 | Sealing quantity   | m <sup>3</sup> | 7.8      | 9.9     | 17.7                   |                                 |        |
|                           |   |                                 | Sealing bag  | m              | 543.4    | 697.0   | 1,240.4                |                                 |        |
|                           | Excavation inside the well                |                                 |  | m <sup>3</sup> | 993.2    | 807.4   | 1,800.6                |                                 |        |
| Backfill inside the well  |   |                                 | m <sup>3</sup>   | 218.0          | 119.5    | 337.5   |                        |                                 |        |
| Surplus soil (waste soil) |   |                                 | m <sup>3</sup>   | 775.2          | 687.9    | 1,463.1 |                        |                                 |        |
| Footing concrete          |   | $\sigma_{ck}=24\text{N/mm}^2$   | m <sup>3</sup>   | 482.8          | 436.4    | 919.2   | Correction factor=0.09 |                                 |        |
| Bottom slab concrete      |   | $\sigma_{ck}=21\text{N/mm}^2$   | m <sup>3</sup>   | 263.1          | 228.0    | 491.1   |                        |                                 |        |
| Spread sand               |   |                                 | m <sup>3</sup>   | 60.4           | 52.3     | 112.7   |                        |                                 |        |
| Pile head                 | Shear Connector                           | PL-32 $\times$ 16 $\times$ 3597 | kg   | —              | 116      | 116     |                        |                                 |        |
|                           | Stopper                                   | PL-25 $\times$ 9 $\times$ 50    | #  | —              | 2        | 2       |                        |                                 |        |
| Pile head Re-bar          | Re-bar                                    | SD345                           | D 13   | kg             | —        | 168     | 168                    |                                 |        |
|                           |   |                                 | D16 ~ D25  | #              | —        | 341     | 341                    |                                 |        |
|                           |   |                                 | D29 ~ D32  | #              | —        | —       | —                      |                                 |        |
|                           |   |                                 | Total  | #              | —        | 509     | 509                    |                                 |        |
| Footing Re-bar            | Re-bar                                    | SD345                           | D 13   | kg             | —        | —       | —                      |                                 |        |
|                           |   |                                 | D16 ~ D25  | #              | 6,285    | 5,399   | 11,684                 |                                 |        |
|                           |   |                                 | D29 ~ D32  | #              | 21,007   | 7,878   | 28,885                 |                                 |        |
|                           |   |                                 | D 35   | #              | —        | —       | —                      |                                 |        |
|                           |   |                                 | D 38   | #              | —        | 17,760  | 17,760                 |                                 |        |
|                           |   |                                 | D 51   | #              | —        | —       | —                      |                                 |        |
|                           |   |                                 | Total  | #              | 27,292   | 31,037  | 58,329                 |                                 |        |
|                           | Mechanical splice                         | SD345                           | D 38   | Point          | —        | 82      | 82                     |                                 |        |
|                           |   |                                 | D 51   | #              | —        | —       | —                      |                                 |        |
|                           |   |                                 | Total  | #              | —        | 82      | 82                     |                                 |        |
| Welding of the dowel      | Welding of the dowel stage                |                                 | Stage  | 748            | 768      | 1,516   |                        |                                 |        |
|                           | Welding of the dowel Weight               |                                 | kg   | 7,364          | 7,474    | 14,838  |                        |                                 |        |

## **E. STEEL CABLE STAYED BRIDGE**

# GENERAL VIEW OF STEEL CABLE STAYED BRIDGE (1)



## STANDARD HALF CROSS-SECTION S=1:100

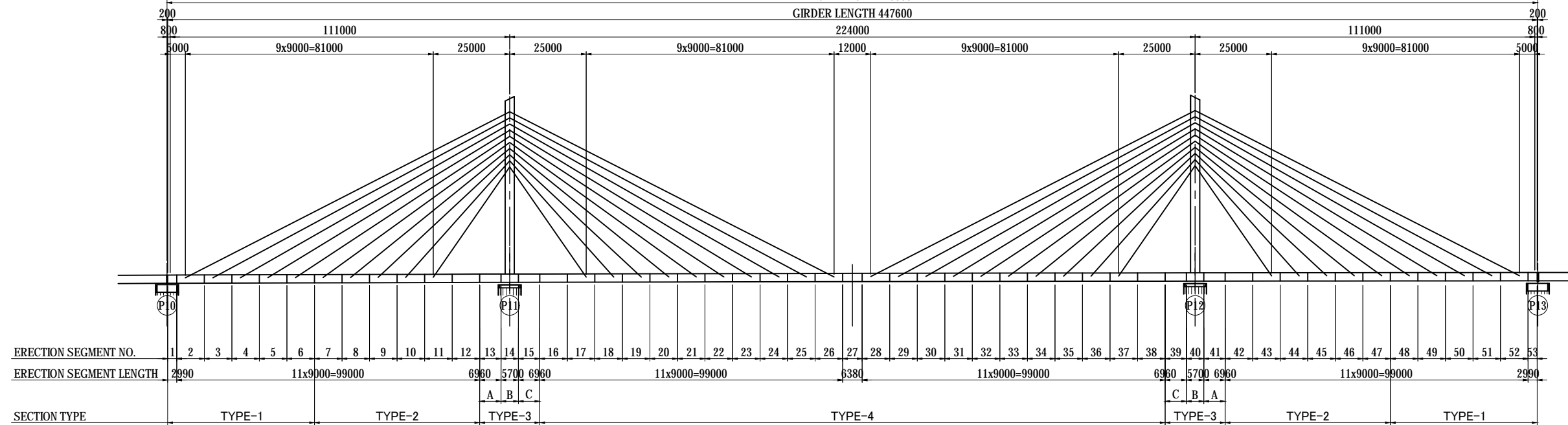


| PROJECT NAME  | FINANCED BY                                 | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE | DATE          | DRAWING TITLE                                 | PACKAGE    |
|---|---|--|---|-------------|-----------|---------------|---|------------|
| DETAILED DESIGN ON BAGO 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 | GENERAL VIEW OF STEEL CABLE STAYED BRIDGE (1) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov. 2017 |   | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov. 2017 |   | P1-CS-0001 |

# GENERAL VIEW OF STEEL CABLE STAYED BRIDGE (2)

## SIDE VIEW

BRIDGE LENGTH 448000  
GIRDER LENGTH 447600



UNIT: mm

|               |               |               |               |               |               |               |               |               |               |               |               |               |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| DECK PL       | THK           | 16            | 16            | 16            | 16            | 16            | 16            | 16            |               |               |               |               |
|               | STEEL GRADE   | SM400         | SM400         | a             | b             | a             | SM400         | a             | b             | a             | SM400         | SM400         |
|               | TROUGH        | 320 x 240 x 8 | 320 x 240 x 8 | 320 x 240 x 8 | 320 x 240 x 8 | 320 x 240 x 8 | 320 x 240 x 8 | 320 x 240 x 8 | 320 x 240 x 8 | 320 x 240 x 8 | 320 x 240 x 8 | 320 x 240 x 8 |
|               | LONGIT. RIB A | 250 x 24      | 250 x 24      | 250 x 24      | 250 x 24      | 250 x 24      | 250 x 24      | 250 x 24      | 250 x 24      | 250 x 24      | 250 x 24      | 250 x 24      |
| OUTER WEB     | LONGIT. RIB B | 200 x 20      | 200 x 20      | 200x20        | 200 x 20      | 200 x 20      | 200x20        | 200 x 20      | 200x20        | 200 x 20      | 200 x 20      | 200 x 20      |
|               | THK           | 14            | 14            | 17            | 14            | 14            | 17            | 14            | 14            | 14            | 14            | 14            |
| INNER WEB     | STEEL GRADE   | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        |
|               | THK           | 14            | 14            | 18            | 35            | 18            | 14            | 18            | 35            | 18            | 14            | 14            |
|               | STEEL GRADE   | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        |
| BOTTOM FLANGE | LONGIT. RIB   | 160 x 16      | 160 x 16      | 200 x 20      | 160 x 16      | 160 x 16      | 200 x 20      | 160 x 16      | 200 x 20      | 160 x 16      | 160 x 16      | 160 x 16      |
|               | THK           | 14            | 11            | 15            | 14            | 14            | 11            | 15            | 14            | 11            | 14            | 14            |
|               | STEEL GRADE   | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        | SM490Y        |
|               | LONGIT. RIB   | 160 x 16      | 160 x 16      | 200 x 20      | 160 x 16      | 160 x 16      | 200 x 20      | 160 x 16      | 200 x 20      | 160 x 16      | 160 x 16      | 160 x 16      |

a : SM400A  
b : SM490Y

|   |  |   |  |             |             |      |   |            |              |
|---|--|---|--|-------------|-------------|------|---|------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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 |
|   |  |   |  |             |             |      | GENERAL VIEW OF STEEL CABLE STAYED BRIDGE (2) | 1          |              |
|   |  |   |  |             |             |      |   | DWG No.    |              |
|   |  |   |  |             |             |      |   | P1-CS-0002 |              |

# GENERAL VIEW OF STEEL CABLE STAYED BRIDGE (3)

SIDE VIEW S=1:400

SECTION A-A

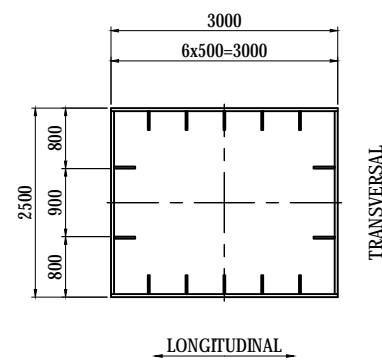
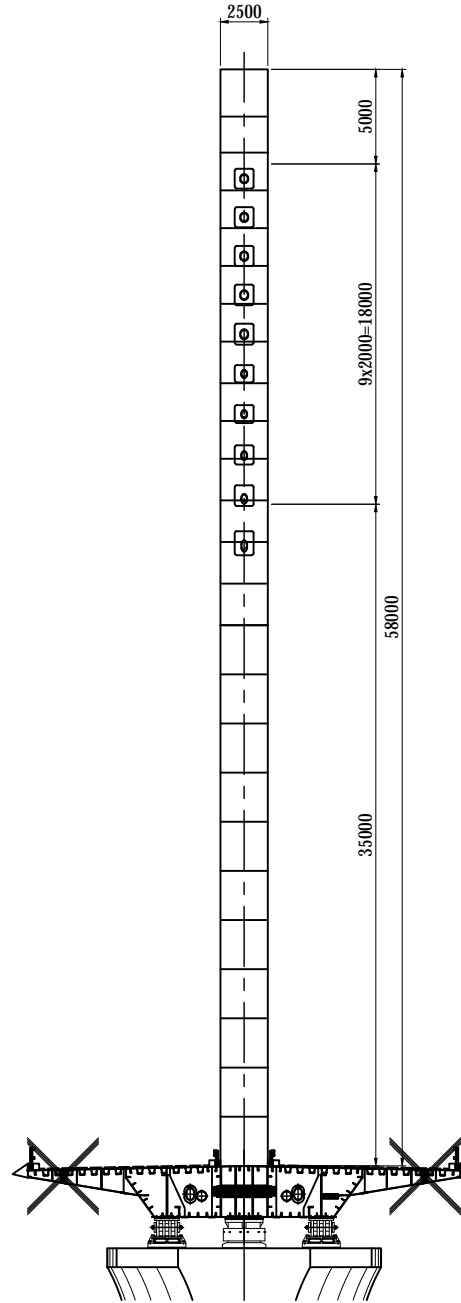
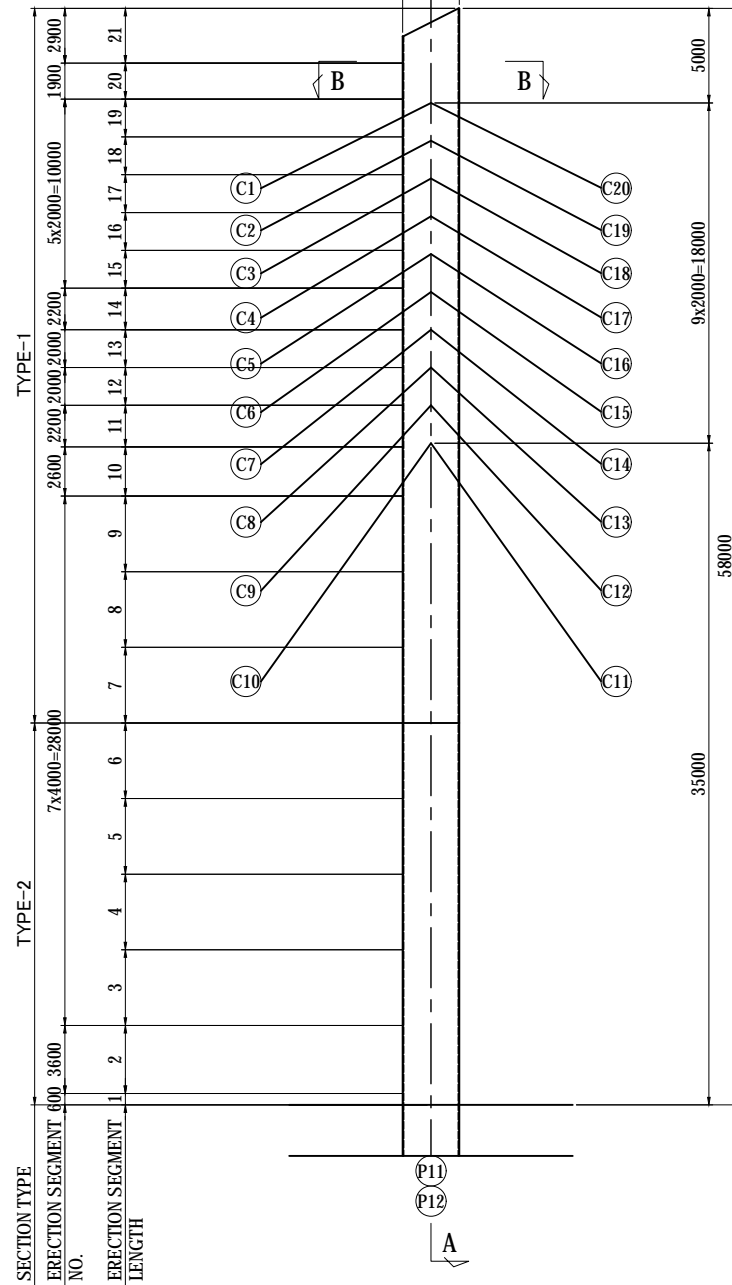
SECTION B-B

UNIT: mm

|             |          |
|-------------|----------|
| STEEL GRADE | SM490Y   |
| FLANGE THK  | 2420x40  |
| LONGIT. RIB | 2-280x27 |
| WEB THK     | 3000x40  |
| LONGIT. RIB | 5-250x25 |

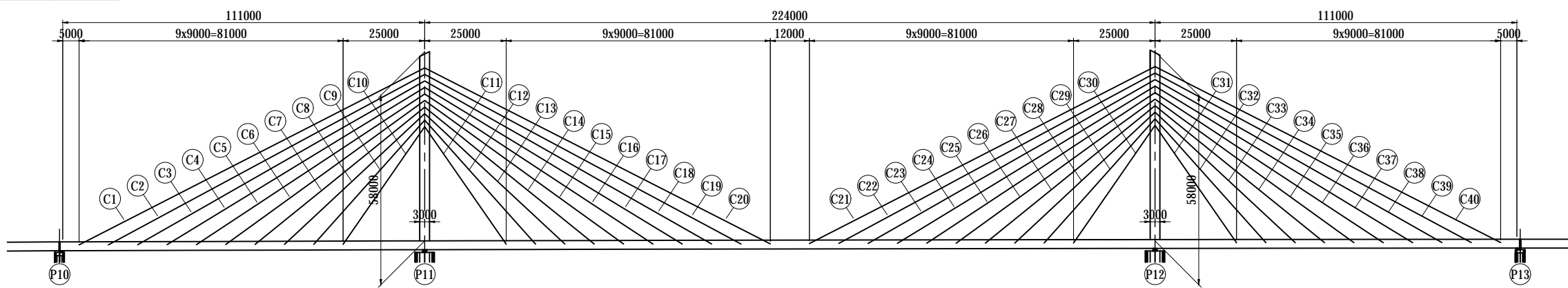
|             |          |
|-------------|----------|
| STEEL GRADE | SM490Y   |
| FLANGE THK  | 2430x35  |
| LONGIT. RIB | 2-280x25 |
| WEB THK     | 3000x35  |
| LONGIT. RIB | 5-250x25 |



| STAY CABLE NO. | NOS. | TYPE               |
|----------------|------|--------------------|
| C1             | 2    | FUT-H<br>( 15φ-70) |
| C2             | 2    |                    |
| C3             | 2    |                    |
| C4             | 2    |                    |
| C5             | 2    | FUT-H<br>( 15φ-37) |
| C6             | 2    |                    |
| C7             | 2    |                    |
| C8             | 2    |                    |
| C9             | 2    | FUT-H<br>( 15φ-37) |
| C10            | 2    |                    |
| C11            | 2    |                    |
| C12            | 2    |                    |
| C13            | 2    | FUT-H<br>( 15φ-70) |
| C14            | 2    |                    |
| C15            | 2    |                    |
| C16            | 2    |                    |
| C17            | 2    | FUT-H<br>( 15φ-70) |
| C18            | 2    |                    |
| C19            | 2    |                    |
| C20            | 2    |                    |

| ANCHORAGE TYPE                     | 37H                         | 70H                         |
|------------------------------------|-----------------------------|-----------------------------|
| CABLE CROSS SECTION                |                             |                             |
| NOM.AREA                           | 5420 mm <sup>2</sup>        | 10255 mm <sup>2</sup>       |
| TENSILE STRENGTH                   | 9657 kN                     | 18270 kN                    |
| ELASTIC MODULUS                    | 190 kN/mm <sup>2</sup>      | 190 kN/mm <sup>2</sup>      |
| UNIT WEIGHT<br>(STRANDS+HDPE DUCT) | 50.8 kg/m<br>(37x1.288+3.1) | 96.0 kg/m<br>(70x1.288+5.8) |

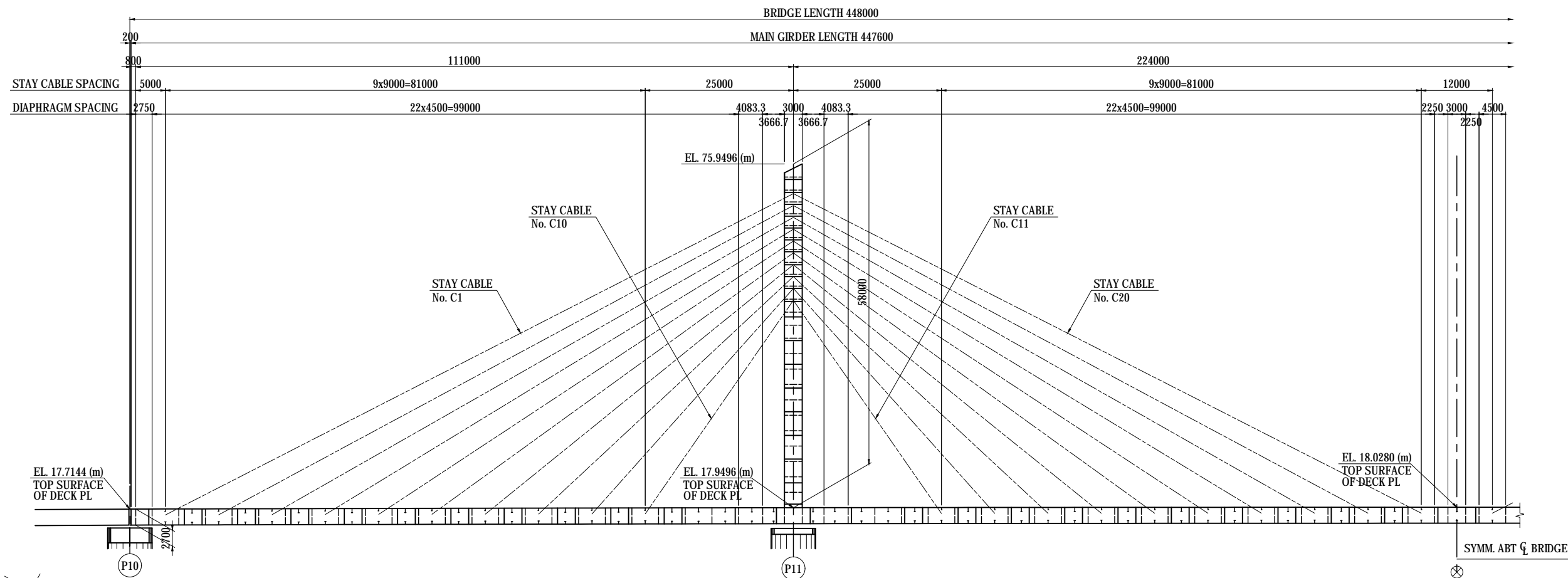
LAYOUT DRAWING S=1:1600



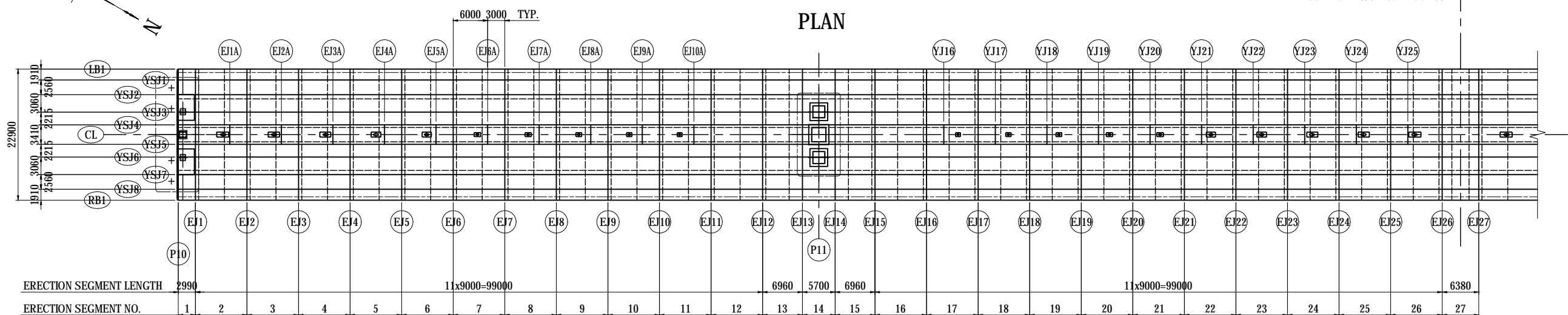


# GENERAL VIEW OF MAIN GIRDER (1) S=1:800

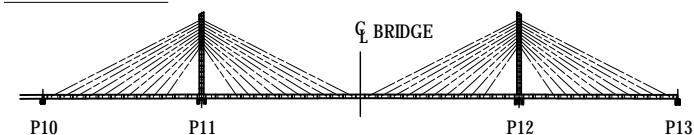
## ELEVATION



## PLAN

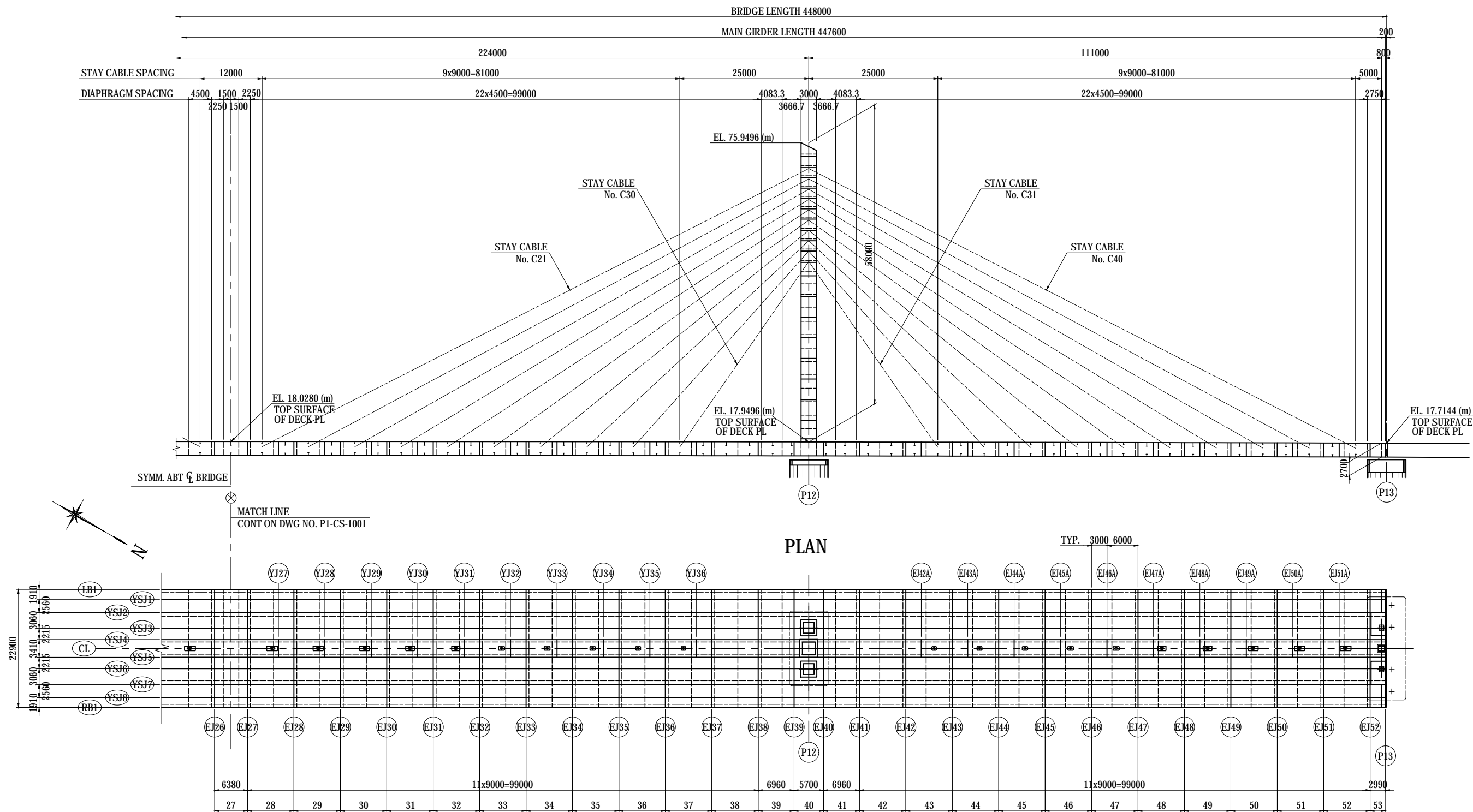


## KEY PLAN

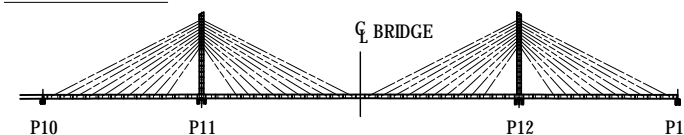


|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>GENERAL VIEW OF MAIN GIRDER (1) | 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-1001 |

# GENERAL VIEW OF MAIN GIRDER (2) S=1:800



### KEY PLAN

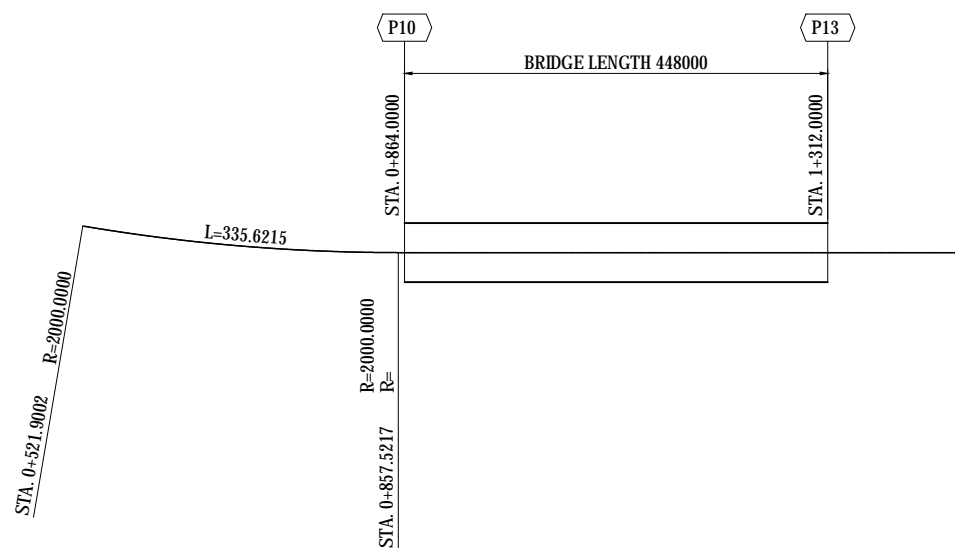


| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><b>GENERAL VIEW OF MAIN GIRDER (2)</b> | <small>PACKAGE</small><br>1<br><small>DWG No.</small><br>P1-CS-1002 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|---|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |   |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |   |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |   |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |   |

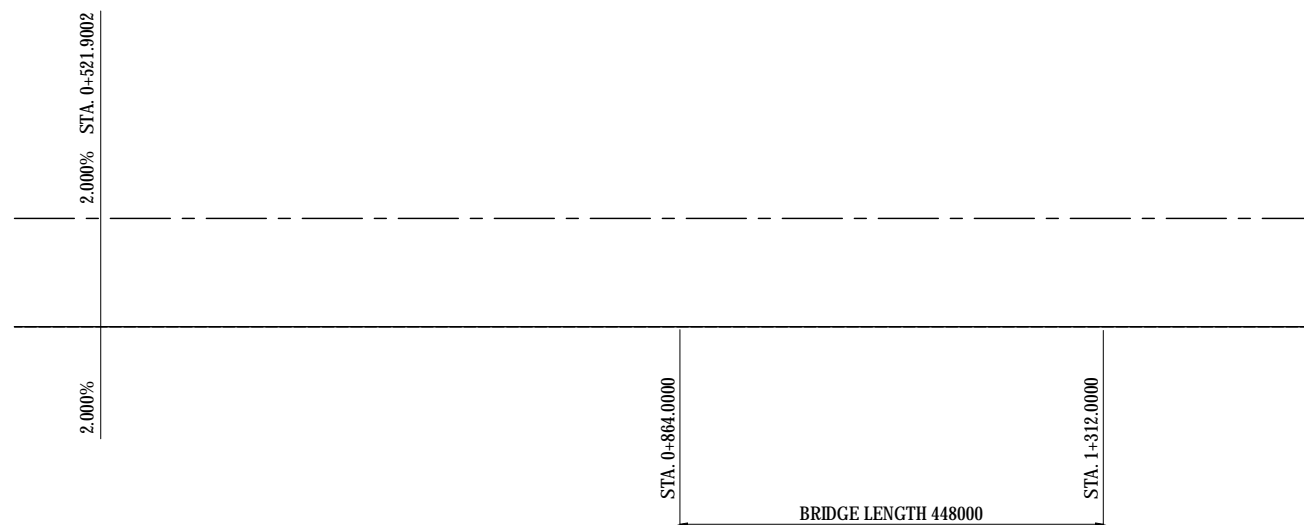
# GENERAL VIEW OF MAIN GIRDER (3)

## LINEAR ELEMENT

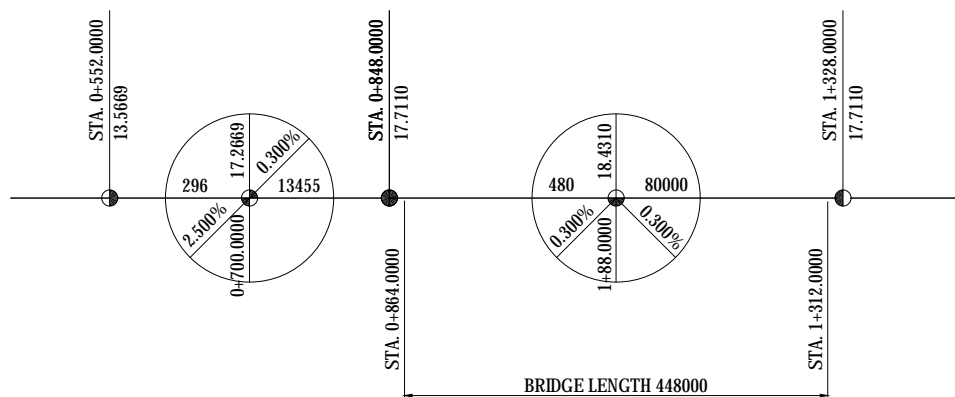
PLAN



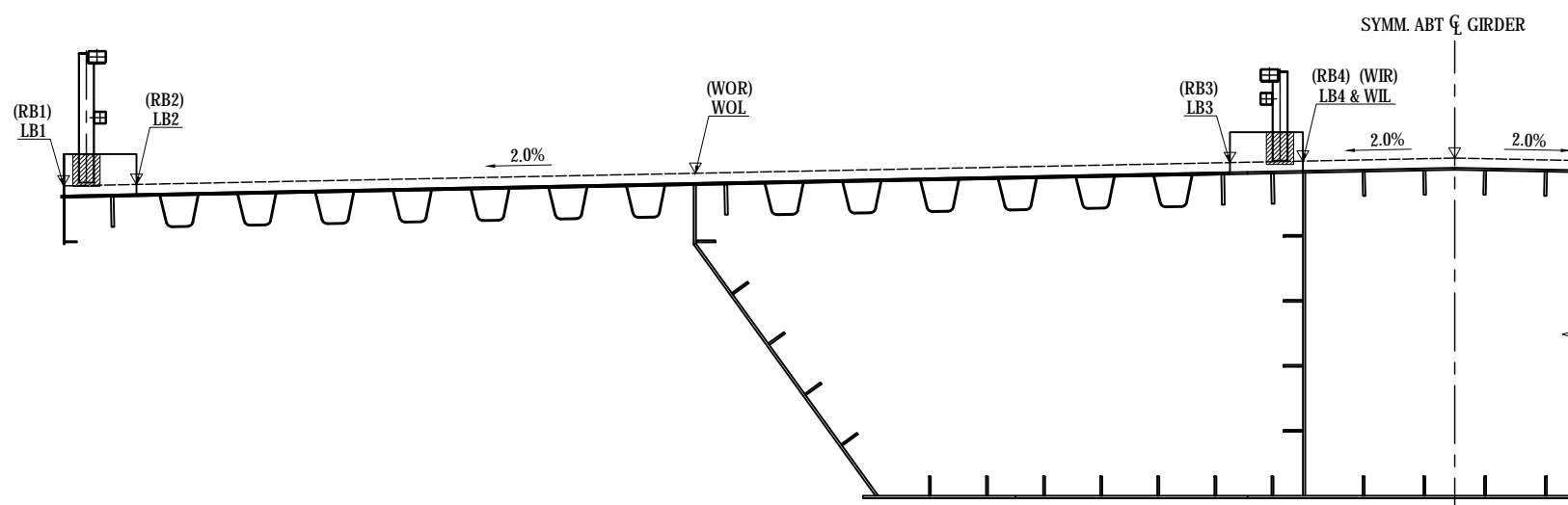
TRANSVERSAL



PROFILE



TYPICAL CROSS 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   | 友田 隆雄     | 27. Nov. 2017 | GENERAL VIEW OF MAIN GIRDER (3) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov. 2017 |                                 | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov. 2017 |                                 | P1-CS-1003 |



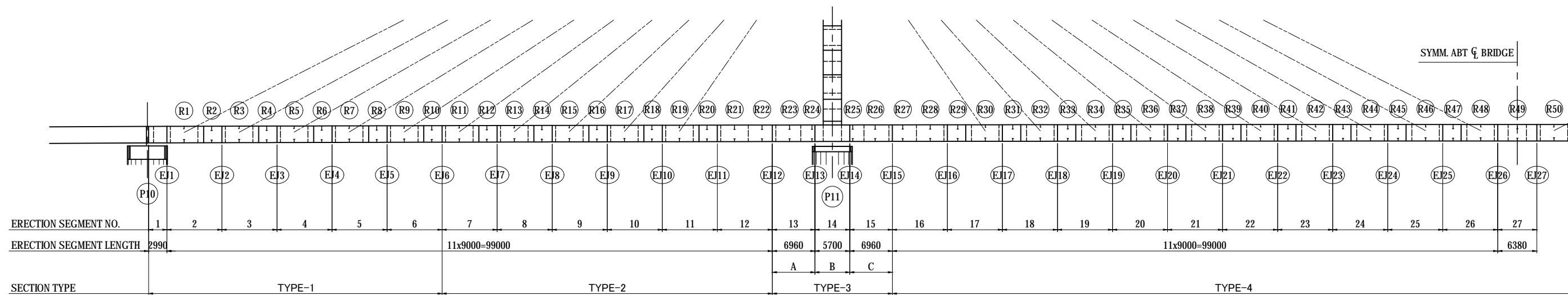






# GENERAL VIEW OF MAIN GIRDER (8)

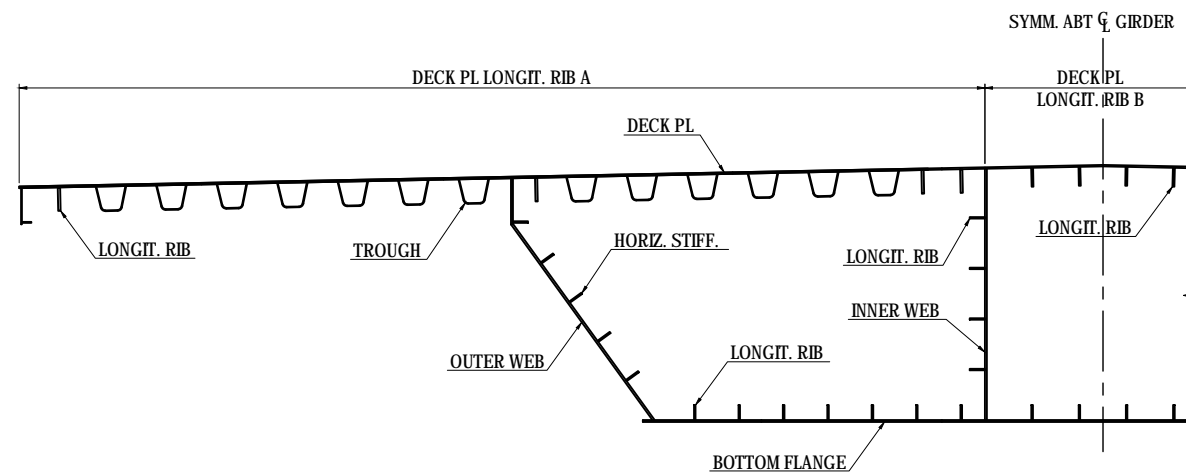
ELEVATION N.T.S.



UNIT: mm

|               |               |               |               |               |        |       |               |
|---------------|---------------|---------------|---------------|---------------|--------|-------|---------------|
| DECK PL       | THK           | 16            | 16            | 16            |        |       | 16            |
|               | STEEL GRADE   | SM400         | SM400         | SM400         | SM490Y | SM400 | SM400         |
|               | TROUGH        | 320 x 240 x 8 | 320 x 240 x 8 | 320 x 240 x 8 |        |       | 320 x 240 x 8 |
|               | LONGIT. RIB A | 250 x 24      | 250 x 24      | 250 x 24      |        |       | 250 x 24      |
| OUTER WEB     | THK           | 14            | 14            | 17            |        |       | 14            |
|               | STEEL GRADE   | SM490Y        | SM490Y        | SM490Y        |        |       | SM490Y        |
|               | HORIZ. STIFF. | 160 x 16      | 160 x 16      | 200 x 20      |        |       | 160 x 16      |
| INNER WEB     | THK           | 14            | 14            | 18            | 35     | 18    | 14            |
|               | STEEL GRADE   | SM490Y        | SM490Y        | SM490Y        |        |       | SM490Y        |
|               | LONGIT. RIB   | 160 x 16      | 160 x 16      | 200 x 20      |        |       | 160 x 16      |
| BOTTOM FLANGE | THK           | 14            | 11            | 15            |        |       | 11            |
|               | STEEL GRADE   | SM490Y        | SM490Y        | SM490Y        |        |       | SM490Y        |
|               | LONGIT. RIB   | 160 x 16      | 160 x 16      | 200 x 20      |        |       | 160 x 16      |

TYPICAL SECTION N.T.S.

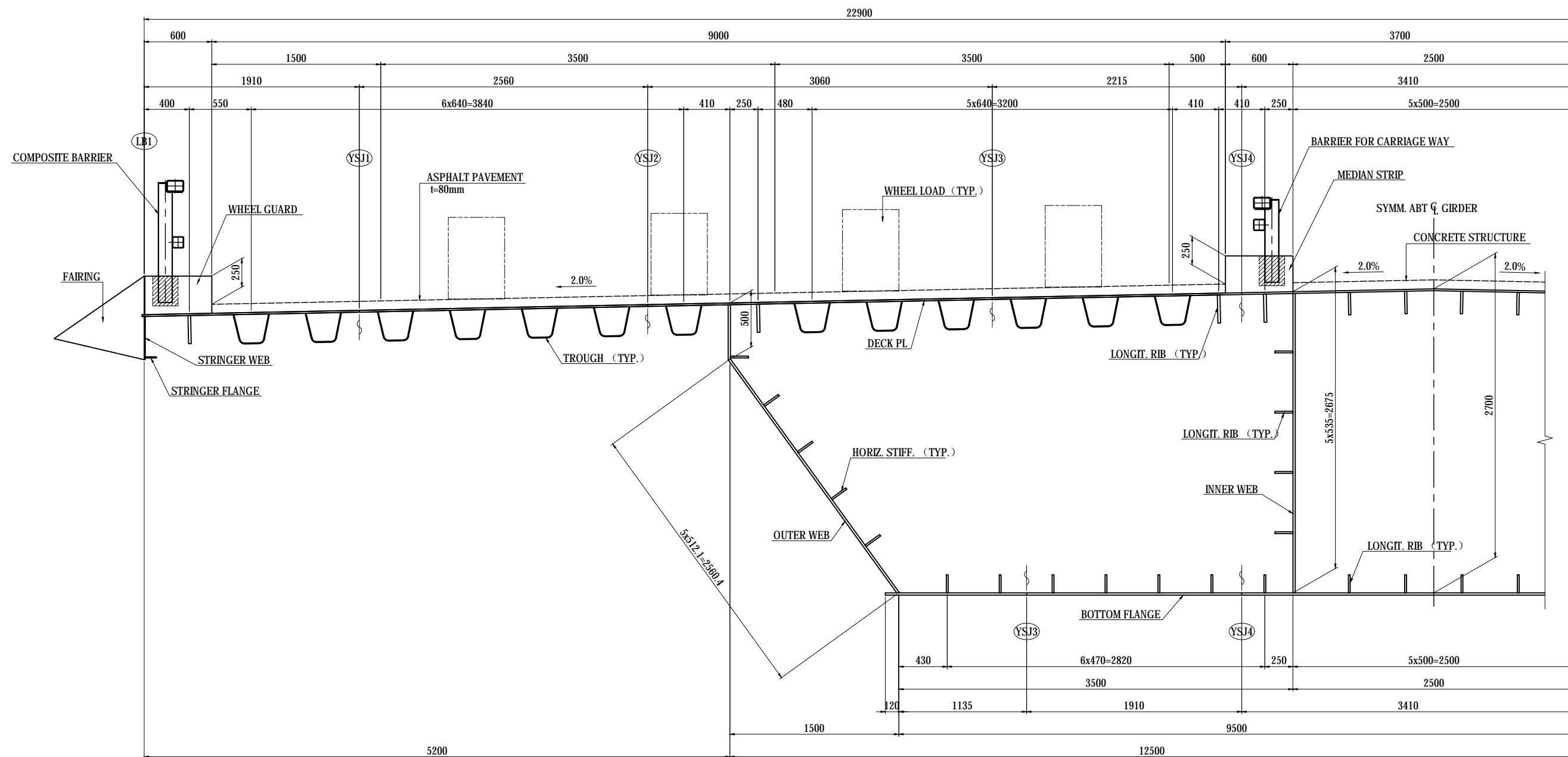


|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>GENERAL VIEW OF MAIN GIRDER (8) | 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-1008 |



# GENERAL VIEW OF MAIN GIRDER (9) S=1:40

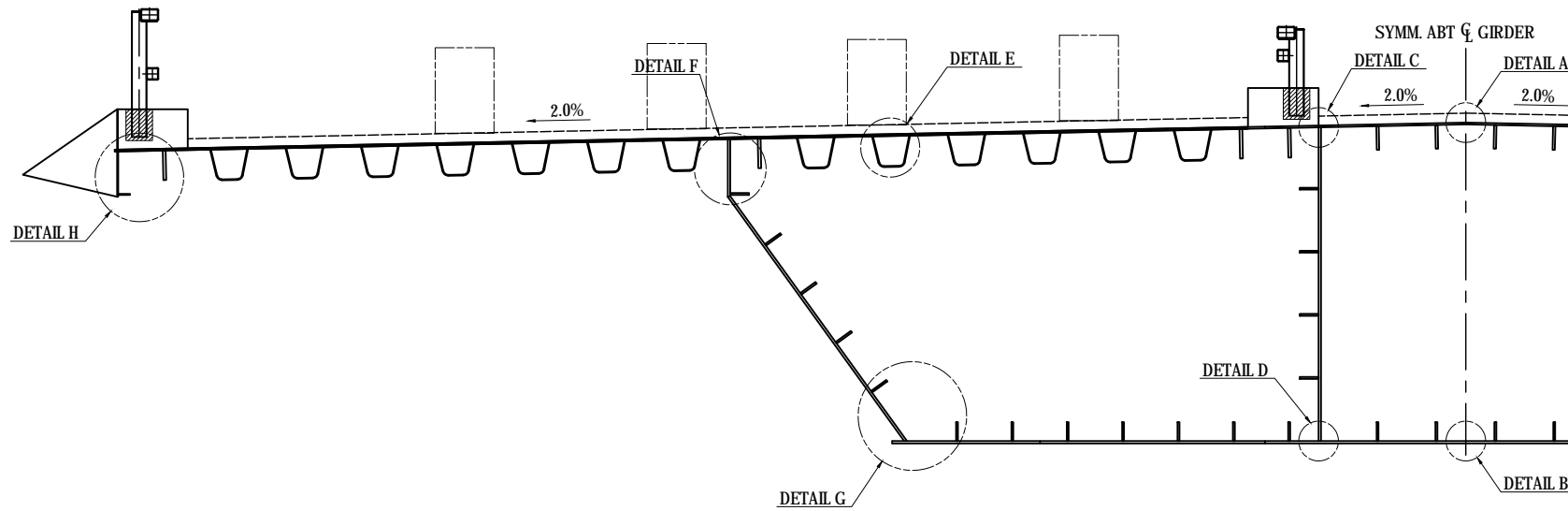
## SECTION OUTLINES TYPICAL SECTION



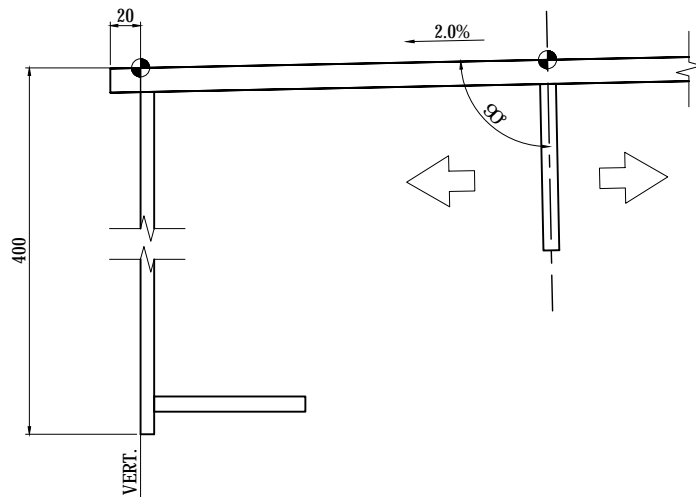
| PROJECT NAME  | FINANCED BY                               | COUNTERPART  | JICA STUDY TEAM   | NAME                                     | SIGNATURE                          | DATE     | DRAWING TITLE                                | PACKAGE                         |
|---|---|--|---|--|------------------------------------|----------|--|---------------------------------|
| DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | JAPAN INTERNATIONAL<br>COOPERATION AGENCY | REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | PREPARED BY<br>CHECKED BY<br>APPROVED BY | T.TOMODA<br>T. HAYAKAWA<br>Y. SANO | <br><br> | 27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | GENERAL VIEW OF MAIN GIRDER (9) |
|   |   |  |   |  |                                    |          |  | 1<br>DWG No.<br>P1-CS-1009      |

# GENERAL VIEW OF MAIN GIRDER (10) S=1:60

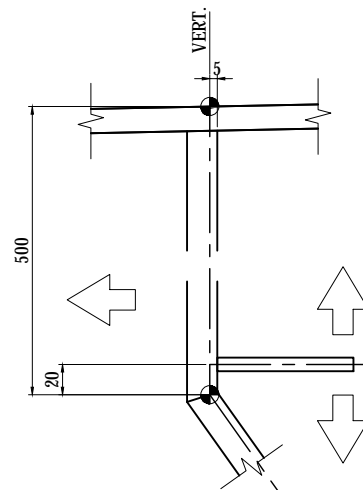
## SECTION OUTLINES



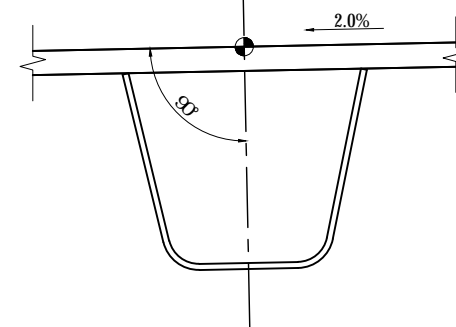
**DETAIL H N.T.S.**



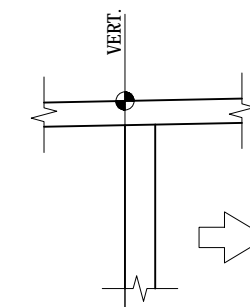
**DETAIL F N.T.S.**



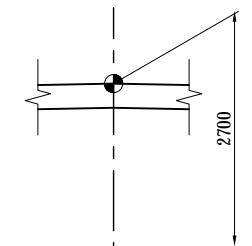
**DETAIL E N.T.S.**



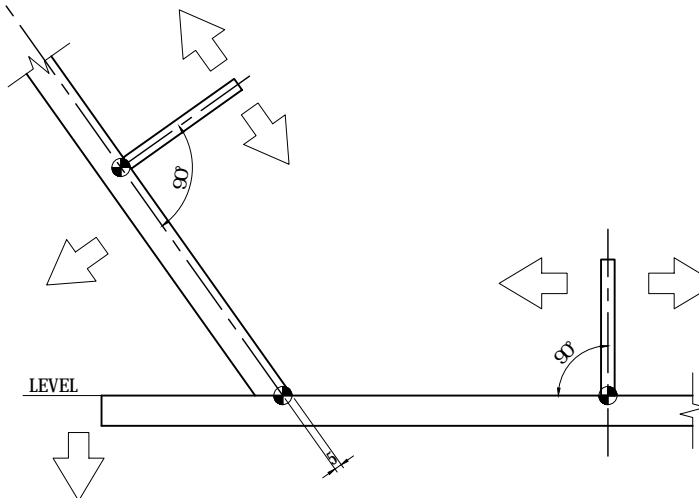
**DETAIL C S=1:5**



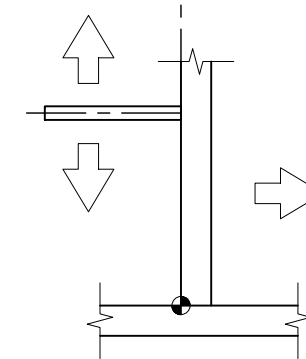
**DETAIL A S=1:5**



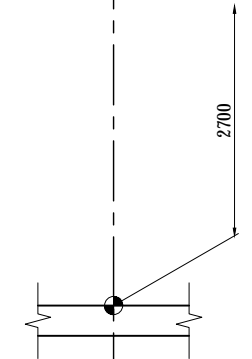
**DETAIL G N.T.S.**



**DETAIL D N.T.S.**



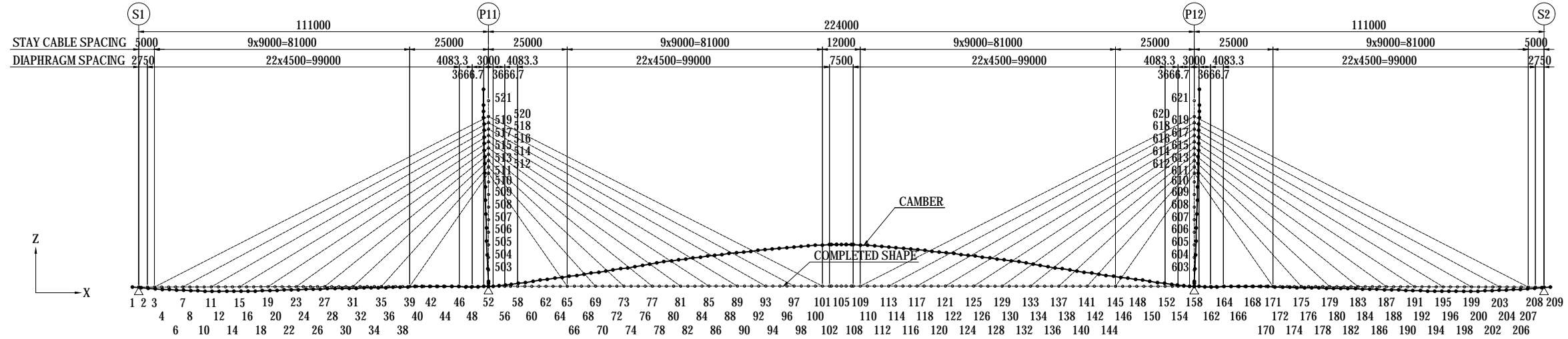
**DETAIL B S=1:5**



**NOTES:**  
1 - ⇄ DIRECTION

| 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 | GENERAL VIEW OF MAIN GIRDER (10) | 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-1010 |

# CAMBER SIDE VIEW



| Node           |   | 1       | 2      | 3      | 4      | 6      | 7      | 8      | 10     | 11     | 12     | 14     | 15     | 16     | 18     | 19     | 20     | 22     | 23     | 24     | 26     | 27     | 28     | 30     | 31     | 32     | 34     | 35     | 36     | 38     | 39     | 40     |
|----------------|---|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cross section  |   | S1(P10) | D1     | C1     | D2     | D3     | C2     | D4     | D5     | C3     | D6     | D7     | C4     | D8     | D9     | C5     | D10    | D11    | C6     | D12    | D13    | C7     | D14    | D15    | C8     | D16    | D17    | C9     | D18    | D19    | C10    | D20    |
| Coordinate (m) | X | 1.000   | 3.750  | 6.000  | 8.250  | 12.750 | 15.000 | 17.250 | 21.750 | 24.000 | 26.250 | 30.750 | 33.000 | 35.250 | 39.750 | 42.000 | 44.250 | 48.750 | 51.000 | 53.250 | 57.750 | 60.000 | 62.250 | 66.750 | 69.000 | 71.250 | 75.750 | 78.000 | 80.250 | 84.750 | 87.000 | 89.250 |
|                | Z | 16.817  | 16.825 | 16.831 | 16.837 | 16.849 | 16.855 | 16.861 | 16.872 | 16.878 | 16.884 | 16.895 | 16.900 | 16.905 | 16.916 | 16.921 | 16.926 | 16.936 | 16.941 | 16.946 | 16.955 | 16.960 | 16.965 | 16.974 | 16.978 | 16.982 | 16.991 | 16.995 | 17.007 | 17.011 | 17.015 |        |
| Camber (mm)    | X | -10     | -10    | -10    | -10    | -10    | -10    | -10    | -10    | -10    | -9     | -9     | -9     | -9     | -9     | -8     | -8     | -8     | -8     | -8     | -7     | -7     | -7     | -6     | -6     | -6     | -5     | -5     | -4     | -4     | -3     |        |
|                | Z | 0       | -1     | -2     | -3     | -4     | -5     | -5     | -6     | -7     | -7     | -7     | -7     | -7     | -7     | -6     | -6     | -5     | -5     | -5     | -4     | -4     | -3     | -3     | -3     | -3     | -2     | -2     | -2     | -1     | -1     | 0      |

| Node           |   | 42     | 44     | 46      | 48      | 52      | 56      | 58      | 60      | 62      | 64      | 65      | 66      | 68      | 69      | 70      | 72      | 73      | 74      | 76      | 77      | 78      | 80      | 81      | 82      | 84      | 85      | 86      | 88      | 89      | 90      | 92      |
|----------------|---|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Cross section  |   | D21    | D22    | D23     | D24     | P11     | D25     | D26     | D27     | D28     | D29     | C11     | D30     | D31     | C12     | D32     | D33     | C13     | D34     | D35     | C14     | D36     | D37     | C15     | D38     | D39     | C16     | D40     | D41     | C17     | D42     | D43     |
| Coordinate (m) | X | 93.750 | 98.250 | 102.750 | 106.833 | 112.000 | 117.167 | 121.250 | 125.750 | 130.250 | 134.750 | 137.000 | 139.250 | 143.750 | 146.000 | 148.250 | 152.750 | 155.000 | 157.250 | 161.750 | 164.000 | 166.250 | 170.750 | 173.000 | 175.250 | 179.750 | 182.000 | 184.250 | 188.750 | 191.000 | 193.250 | 197.750 |
|                | Z | 17.022 | 17.029 | 17.036  | 17.042  | 17.050  | 17.057  | 17.062  | 17.068  | 17.073  | 17.078  | 17.081  | 17.083  | 17.088  | 17.090  | 17.092  | 17.096  | 17.098  | 17.100  | 17.104  | 17.106  | 17.107  | 17.110  | 17.112  | 17.113  | 17.116  | 17.117  | 17.118  | 17.120  | 17.121  | 17.122  | 17.124  |
| Camber (mm)    | X | -2     | -2     | -1      | -1      | 0       | 1       | 1       | 2       | 2       | 3       | 3       | 4       | 4       | 5       | 5       | 6       | 6       | 6       | 7       | 7       | 7       | 8       | 8       | 8       | 9       | 9       | 9       | 10      | 10      | 10      |         |
|                | Z | 0      | 0      | 0       | -1      | 0       | 2       | 5       | 8       | 11      | 14      | 16      | 17      | 21      | 22      | 24      | 28      | 29      | 31      | 35      | 37      | 39      | 42      | 43      | 45      | 48      | 49      | 50      | 53      | 54      | 55      | 58      |

| Node           |   | 93      | 94      | 96      | 97      | 98      | 100     | 101     | 102     | 105     | 108     | 109     | 110     | 112     | 113     | 114     | 116     | 117     | 118     | 120     | 121     | 122     | 124     | 125     | 126     | 128     | 129     | 130     | 132     | 133     | 134     | 136     |
|----------------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Cross section  |   | C18     | D44     | D45     | C19     | D46     | D47     | C20     | D48     | D49     | D50     | C20     | D51     | D52     | C19     | D53     | D54     | C18     | D55     | D56     | C17     | D57     | D58     | C16     | D59     | D60     | C15     | D61     | D62     | C14     | D63     | D64     |
| Coordinate (m) | X | 200.000 | 202.250 | 206.750 | 209.000 | 211.250 | 215.750 | 218.000 | 220.250 | 224.000 | 227.750 | 230.000 | 232.250 | 236.750 | 239.000 | 241.250 | 245.750 | 248.000 | 250.250 | 254.750 | 257.000 | 259.250 | 263.750 | 266.000 | 268.250 | 272.750 | 275.000 | 277.250 | 281.750 | 284.000 | 286.250 | 290.750 |
|                | Z | 17.124  | 17.125  | 17.126  | 17.127  | 17.127  | 17.128  | 17.128  | 17.128  | 17.128  | 17.128  | 17.128  | 17.128  | 17.127  | 17.126  | 17.125  | 17.124  | 17.124  | 17.124  | 17.122  | 17.122  | 17.121  | 17.120  | 17.118  | 17.117  | 17.116  | 17.113  | 17.112  | 17.110  | 17.107  | 17.106  | 17.104  |
| Camber (mm)    | X | 10      | 10      | 11      | 11      | 11      | 11      | 11      | 11      | 0       | -11     | -11     | -11     | -11     | -11     | -11     | -10     | -10     | -10     | -10     | -10     | -10     | -9      | -9      | -9      | -8      | -8      | -8      | -7      | -7      | -7      | -6      |
|                | Z | 59      | 60      | 62      | 63      | 64      | 65      | 66      | 66      | 66      | 66      | 66      | 65      | 64      | 63      | 62      | 60      | 59      | 58      | 55      | 54      | 53      | 50      | 49      | 48      | 45      | 43      | 42      | 39      | 37      | 35      | 31      |

| Node           |   | 137     | 138     | 140     | 141     | 142     | 144     | 145     | 146     | 148     | 150     | 152     | 154     | 158     | 162     | 164     | 166     | 168     | 170     | 171     | 172     | 174     | 175     | 176     | 178     | 179     | 180     | 182     | 183     | 184     | 186     | 187     |
|----------------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Cross section  |   | C13     | D65     | D66     | C12     | D67     | D68     | C11     | D69     | D70     | D71     | D72     | D73     | P12     | D74     | D75     | D76     | D77     | D78     | C10     | D79     | D80     | C9      | D81     | D82     | C8      | D83     | D84     | C7      | D85     | D86     | C6      |
| Coordinate (m) | X | 293.000 | 295.250 | 299.750 | 302.000 | 304.250 | 308.750 | 311.000 | 313.250 | 317.750 | 322.250 | 326.750 | 330.833 | 336.000 | 341.167 | 345.250 | 349.750 | 354.250 | 358.750 | 361.000 | 363.250 | 367.750 | 370.000 | 372.250 | 376.750 | 379.000 | 381.250 | 385.750 | 388.000 | 390.250 | 394.750 | 397.000 |
|                | Z | 17.098  | 17.096  | 17.092  | 17.090  | 17.088  | 17.083  | 17.081  | 17.078  | 17.073  | 17.068  | 17.062  | 17.057  | 17.050  | 17.042  | 17.036  | 17.029  | 17.022  | 17.015  | 17.011  | 17.007  | 16.999  | 16.995  | 16.991  | 16.982  | 16.978  | 16.974  | 16.965  | 16.960  | 16.955  | 16.946  | 16.941  |
| Camber (mm)    | X | -6      | -6      | -5      | -5      | -4      | -4      | -3      | -3      | -2      | -2      | -1      | -1      | 0       | 1       | 1       | 2       | 2       | 3       | 3       | 4       | 4       | 5       | 5       | 6       | 6       | 7       | 7       | 8       | 8       | 8       |         |
|                | Z | 29      | 28      | 24      | 22      | 21      | 17      | 16      | 14      | 11      | 8       | 5       | 2       | 0       | -1      | 0       | 0       | 0       | 0       | -1      | -1      | -2      | -2      | -2      | -3      | -3      | -3      | -3      | -4      | -4      | -5      | -5      |

| Node           |   | 188     | 190     | 191     | 192     | 194     | 195     | 196     | 198     | 199     | 200     | 202     | 203     | 204     | 206     | 207     | 208     | 209     |
|----------------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Cross section  |   | D87     | D88     | C5      | D89     | D90     | C4      | D91     | D92     | C3      | D93     | D94     | C2      | D95     | D96     | C1      | D97     | S2(P13) |
| Coordinate (m) | X | 399.250 | 403.750 | 406.000 | 408.250 | 412.750 | 415.000 | 417.250 | 421.750 | 424.000 | 426.250 | 430.750 | 433.000 | 435.250 | 439.750 | 442.000 | 444.250 | 447.000 |
|                | Z | 16.936  | 16.926  | 16.921  | 16.916  | 16.905  | 16.900  | 16.895  | 16.884  | 16.878  | 16.872  | 16.861  | 16.855  | 16.849  | 16.837  | 16.831  | 16.825  | 16.817  |
| Camber (mm)    | X | 8       | 8       | 9       | 9       | 9       | 9       | 9       | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 10      |
|                | Z | -5      | -6      | -6      | -7      | -7      | -7      | -7      | -7      | -7      | -6      | -5      | -5      | -4      | -3      | -2      | -1      | 0       |

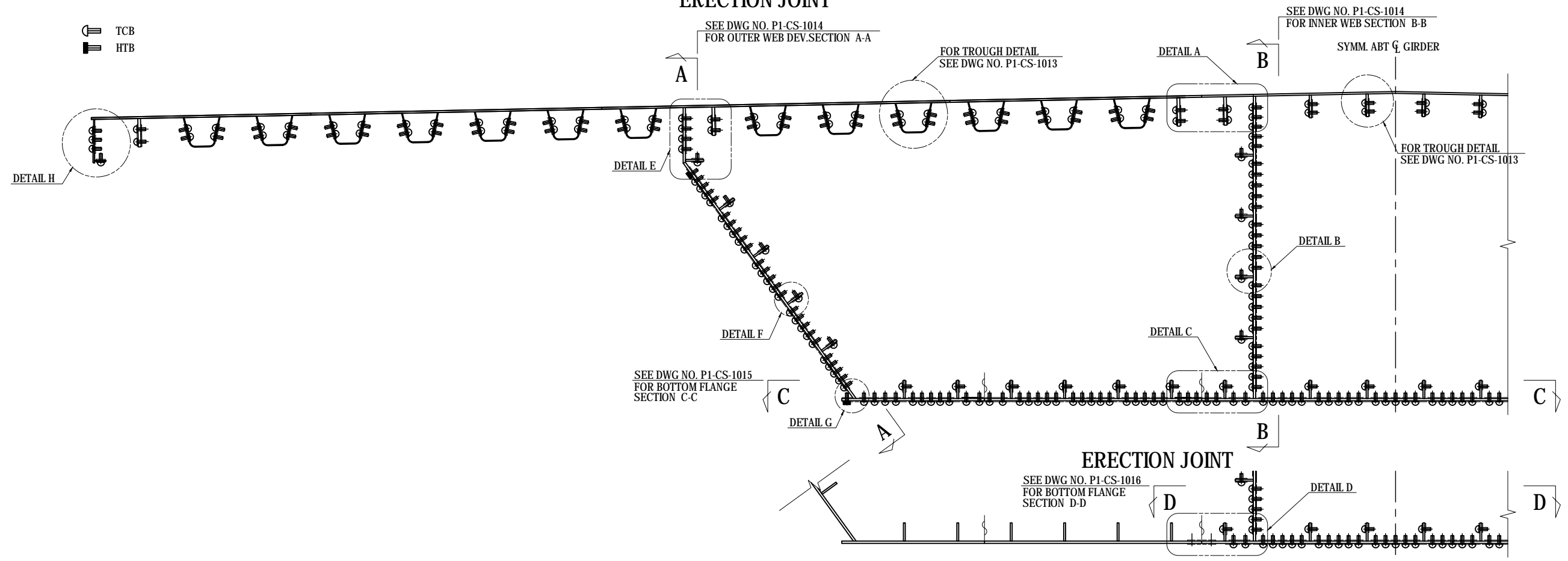
| Node           |   | 503     | 504     | 505     | 506     | 507     | 508     | 509     | 510     | 511     | 512     | 513     | 514     | 515     | 516     | 517     | 518     | 519     | 520     | 521     |
|----------------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Coordinate (m) | X | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 | 112.000 |
|                | Z | 22.230  | 26.230  | 30.230  | 34.230  | 38.230  | 42.230  | 46.230  | 50.230  | 53.030  | 55.030  | 57.030  | 59.030  | 61.030  | 63.030  | 65.030  | 67.030  | 69.030  | 71.030  | 76.030  |
| Camber (mm)    | X | -1      | -2      | -3      | -3      | -4      | -5      | -5      | -6      | -6      | -6      | -7      | -7      | -7      | -7      | -7      | -8      | -8      | -8      | -8      |
|                | Z | 2       | 4       | 6       | 7       | 9       | 11      | 12      | 14      | 15      | 16      | 16      | 17      | 17      | 18      | 18      | 18      | 18      | 18      | 18      |

| Node           |   | 603     | 604     | 605     | 606     | 607     | 608     | 609     | 610     | 611     | 612     | 613     | 614     | 615     | 616     | 617     | 618     | 619     | 620     | 621     |
|----------------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Coordinate (m) | X | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 | 336.000 |
|                | Z | 22.230  | 26.230  | 30.230  | 34.230  | 38.230  | 42.230  | 46.230  | 50.230  | 53.030  | 55.030  | 57.030  | 59.030  | 61.030  | 63.030  | 65.030  | 67.030  | 69.030  | 71.030  | 76.030  |
| Camber (mm)    | X | 1       | 2       | 3       | 3       | 4       | 5       | 5       | 6       | 6       | 6       | 7       | 7       | 7       | 7       | 7       | 8       | 8       | 8       | 8       |
|                | Z | 2       | 4       | 6       | 7       | 9       | 11      | 12      | 14      | 15      | 16      | 16      | 17      | 17      | 18      | 18      | 18      | 18      | 18      | 18      |

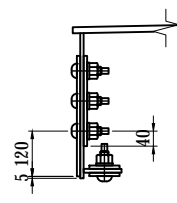
|   |  |   |  |             |             |       |                                |                                       |              |
|---|--|---|--|-------------|-------------|-------|--------------------------------|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE<br><b>CAMBER</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1011 |              |
|   |  |   |  | 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 |

# DETAIL OF MAIN GIRDER STANDARD (1) S=1:40

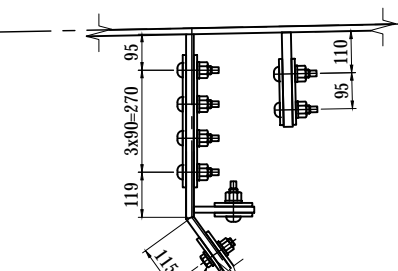
## ERECTION JOINT



DETAIL H S=1:20



DETAIL E S=1:20

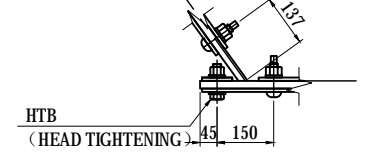


DETAIL F S=1:20

HTB (HEAD TIGHTENING)

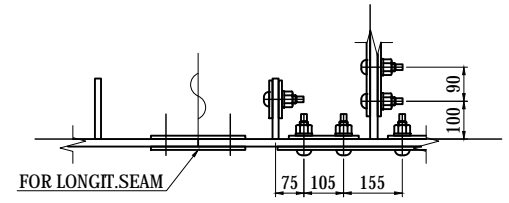


DETAIL G S=1:20

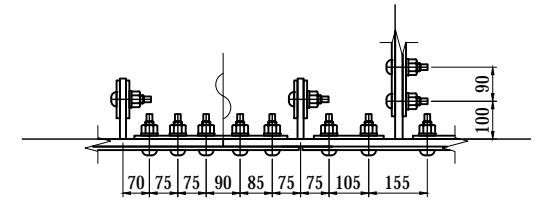


HTB (HEAD TIGHTENING)

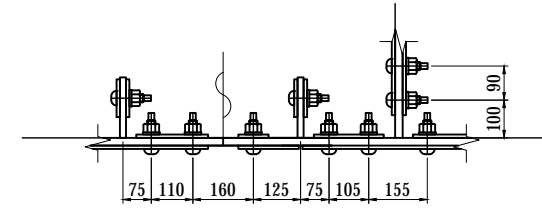
DETAIL D S=1:20 FOR BOLTED LONGIT. SEAM



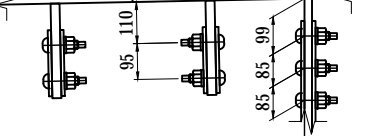
DETAIL C S=1:20 FOR BOLTED LONGIT. SEAM



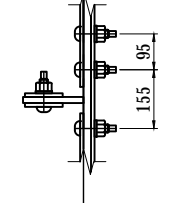
FOR WELDED LONGIT. SEAM



DETAIL A S=1:20



DETAIL B S=1:20



|   |  |   |                     |             |             |      |               |            |              |
|---|--|---|---------------------|-------------|-------------|------|---------------|------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br> | 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 |
| DETAIL OF MAIN GIRDER STANDARD (1)  |  |   |                     |             |             |      | 1             | P1-CS-1012 |              |



# DETAIL OF MAIN GIRDER STANDARD (3) S=1:20

## OUTER WEB DEV. SECTION A-A

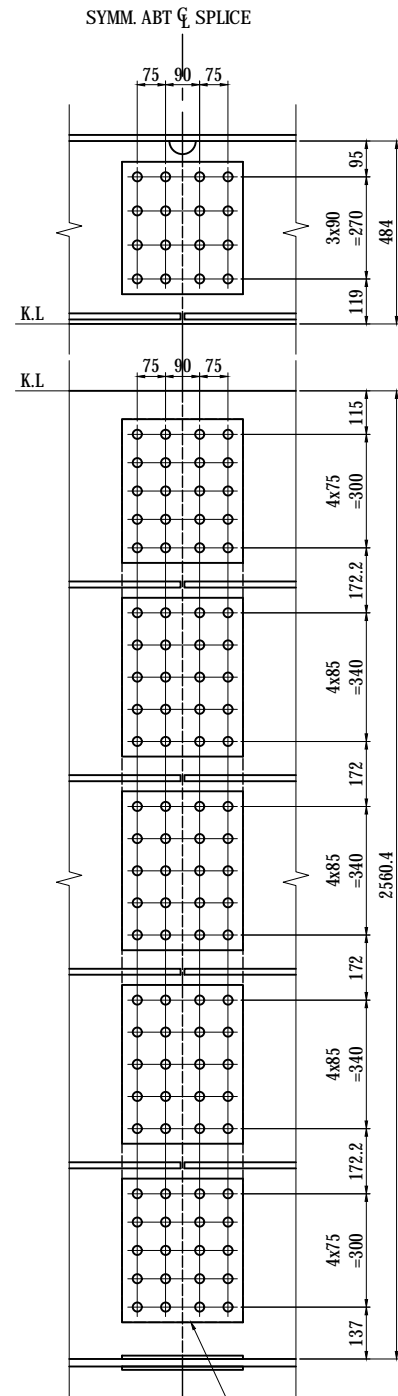
## INNER WEB SECTION B-B

FOR EJ1 TO EJ12, EJ15 TO EJ38  
& EJ41 TO EJ52

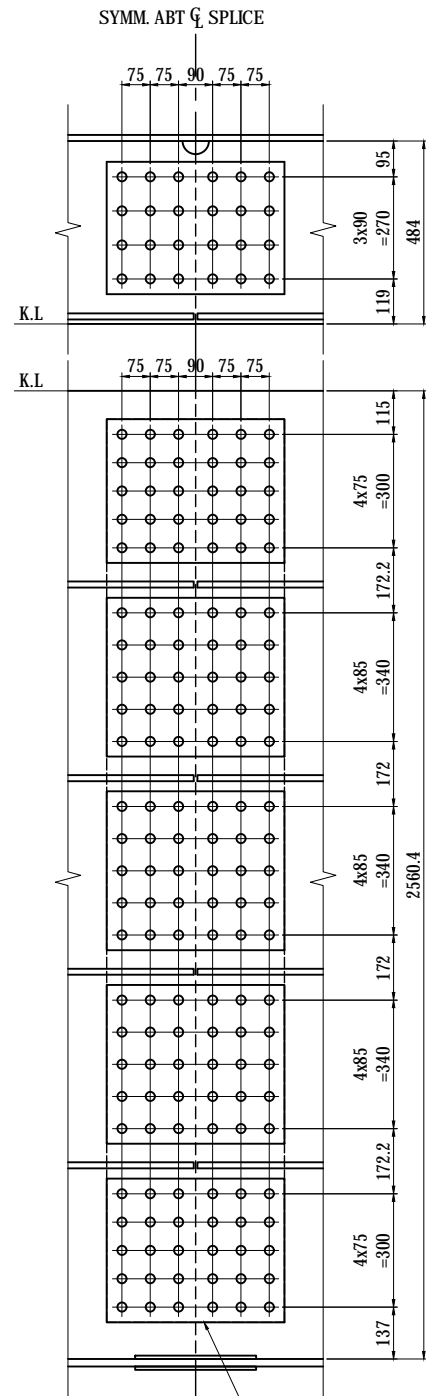
FOR EJ13, EJ14, EJ39 & EJ40

FOR EJ1 TO EJ12, EJ15 TO EJ38  
& EJ41 TO EJ52

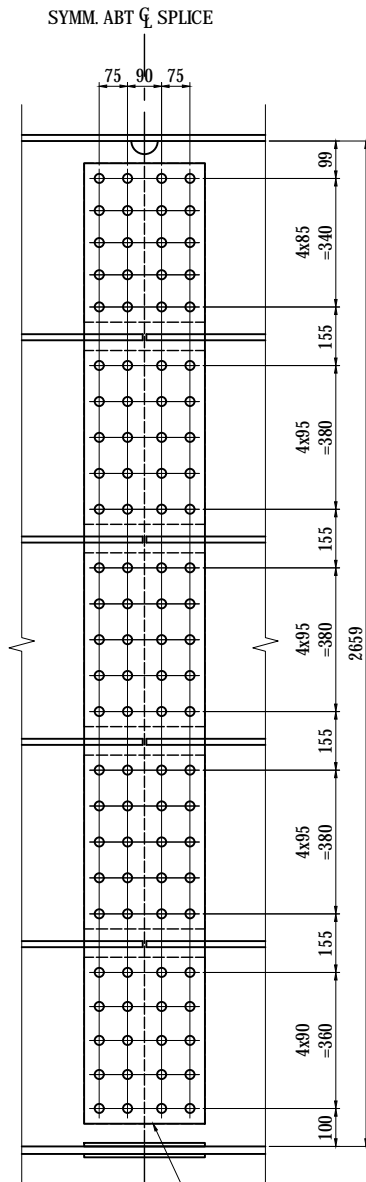
FOR EJ13, EJ14, EJ39 & EJ40



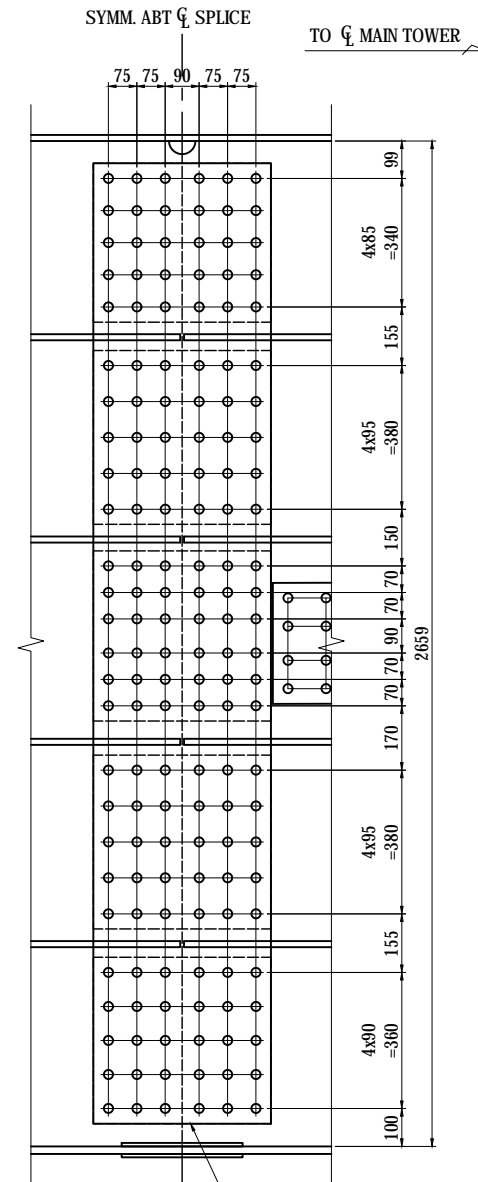
- OUTER SPLICE PL 9 THK  
INNER SPLICE PL 10 THK
- 2-SPL PL 350 x 9 x 320 (SM490YA)
  - 1-SPL PL 2388 x 9 x 320 (SM490YA)
  - 2-SPL PL 380 x 10 x 320 (SM490YA)
  - 3-SPL PL 420 x 10 x 320 (SM490YA)
  - 112-TCB M22 x 70 (S10T)
  - 4-HTB M22 x 75 (F10T)



- OUTER SPLICE PL 10 THK  
INNER SPLICE PL 12 THK
- 2-SPL PL 350 x 10 x 470 (SM490YA)
  - 1-SPL PL 2388 x 10 x 470 (SM490YA)
  - 2-SPL PL 380 x 12 x 470 (SM490YA)
  - 3-SPL PL 420 x 12 x 470 (SM490YA)
  - 168-TCB M22 x 75 (S10T)
  - 6-HTB M22 x 80 (F10T)

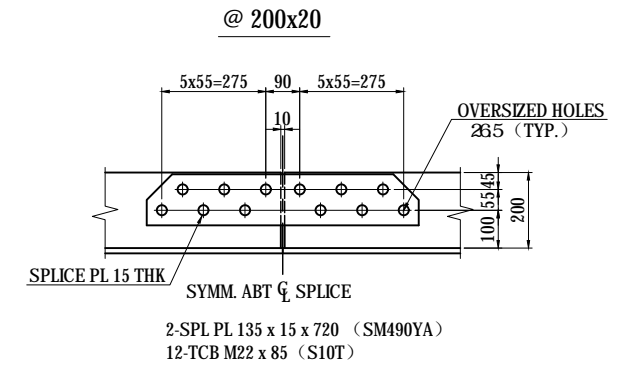
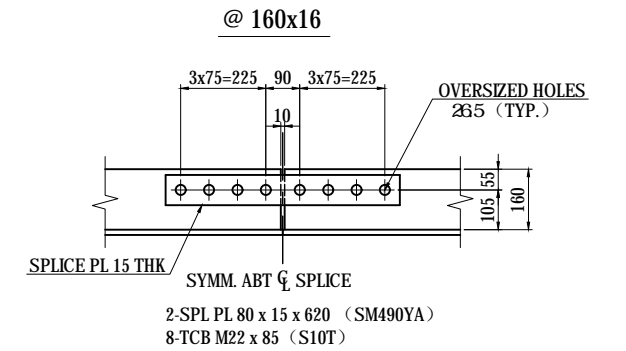


- OUTER SPLICE PL 9 THK  
INNER SPLICE PL 9 THK
- 1-SPL PL 2540 x 9 x 320 (SM490YA)
  - 1-SPL PL 420 x 9 x 320 (SM490YA)
  - 3-SPL PL 460 x 9 x 320 (SM490YA)
  - 1-SPL PL 440 x 9 x 32 (SM490YA)
  - 100-TCB M22 x 70 (S10T)



- OUTER SPLICE PL 10 THK  
INNER SPLICE PL 11 THK
- 1-SPL PL 2540 x 10 x 470 (SM490YA)
  - 1-SPL PL 420 x 11 x 470 (SM490YA)
  - 2-SPL PL 460 x 11 x 470 (SM490YA)
  - 1-SPL PL 450 x 11 x 470 (SM490YA)
  - 1-SPL PL 440 x 11 x 470 (SM490YA)
  - 1-SPL PL 2540 x 17 x 235 (SS400)
  - 312-TCB M22 x 95 (S10T)

## LONGIT. STIFF. (OUTER) & LONGIT. RIB. (INNER) SPLICE DETAIL



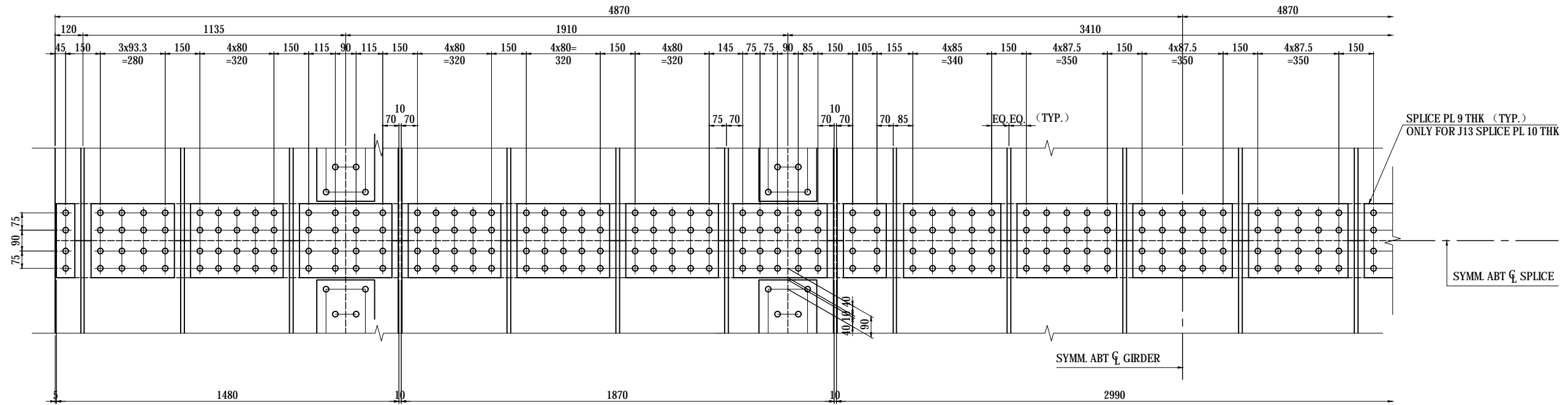
**NOTES:**  
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1012.

|   |  |   |  |  |                       |  |   |                                       |
|---|--|---|--|--|-----------------------|--|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>T.TOMODA<br>T. HAYAKAWA<br>Y. SANO | SIGNATURE<br><br><br> | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br>DETAIL OF MAIN GIRDER STANDARD (3) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1014 |
|---|--|---|--|--|-----------------------|--|---|---------------------------------------|

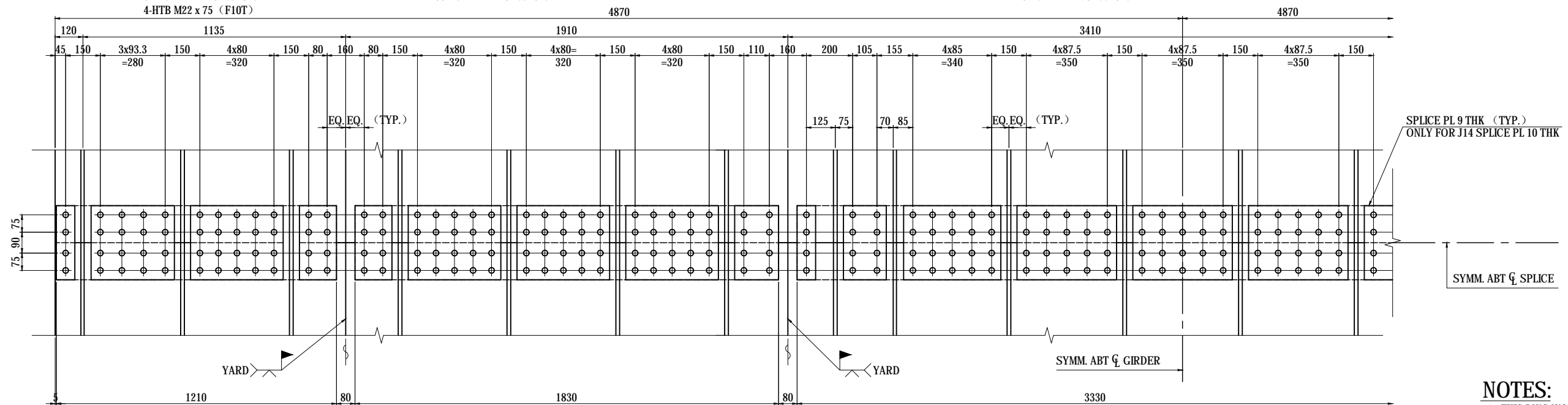
# DETAIL OF MAIN GIRDER STANDARD (4)

S=1:20

## BOTTOM FLANGE SECTION C-C FOR BOLTED LONGIT. SEAM (BACK SPAN GIRDER ERECTION)



## FOR WELDED LONGIT. SEAM (MAIN SPAN GIRDER ERECTION)



### NOTES:

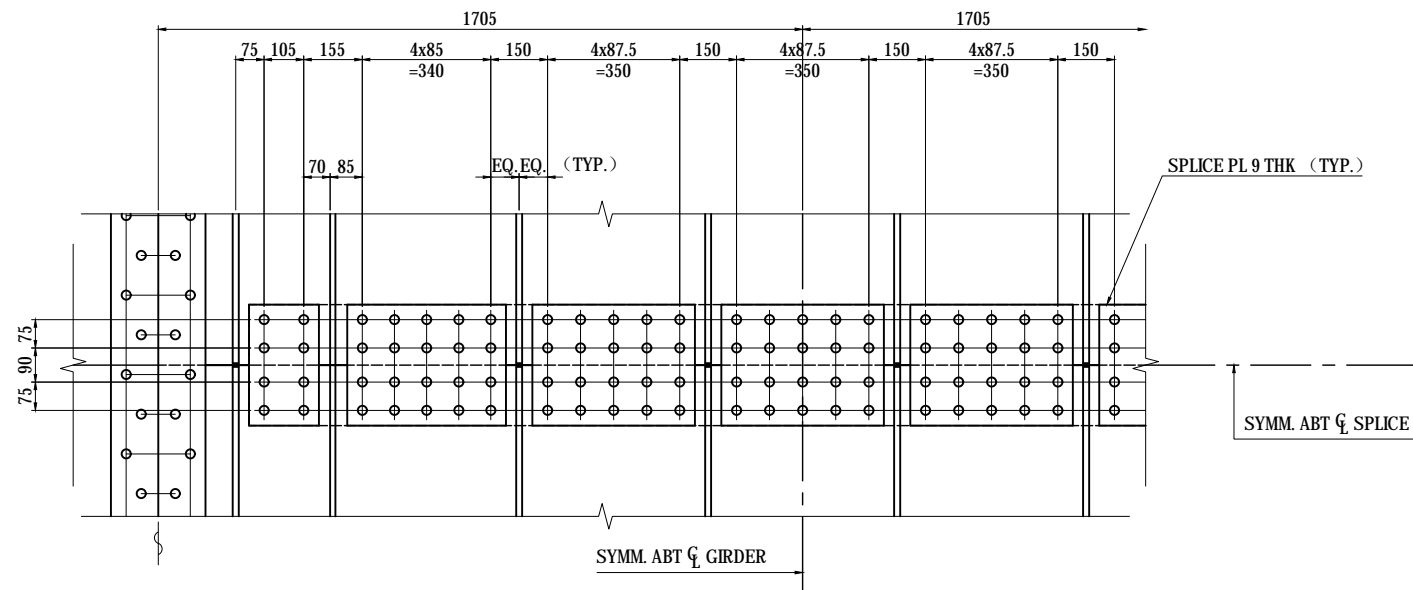
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1012.

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>DETAIL OF MAIN GIRDER STANDARD (4) | PACKAGE      |            |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |   | 27. Nov.2017 | DWG No.    |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |   | 28. Nov.2017 | P1-CS-1015 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |   | 29. Nov.2017 |            |

# DETAIL OF MAIN GIRDER STANDARD (5) S=1:20

## BOTTOM FLANGE

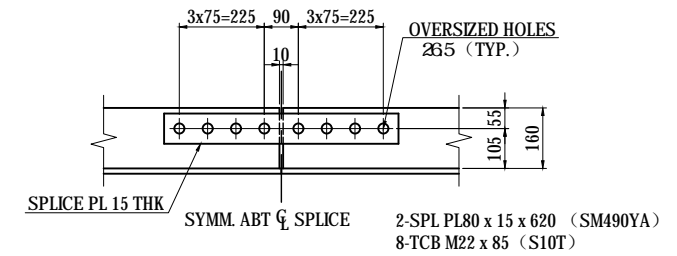
### SECTION D-D FOR BOLTED LONGIT. SEAM



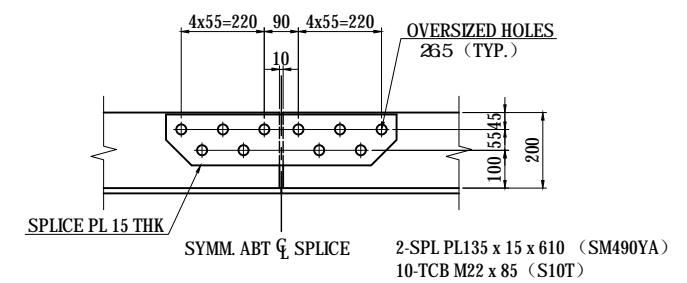
- 2-SPL PL 185 x 9 x 320 (SM490YA)
- 2-SPL PL 420 x 9 x 320 (SM490YA)
- 3-SPL PL 430 x 9 x 320 (SM490YA)
- 1-SPL PL 2930 x 9 x 320 (SM490YA)
- 116-TCB M22 x 70 (S10T)

### LONGIT. RIB SPLICE DETAIL FOR BOLTED

@ 160x16

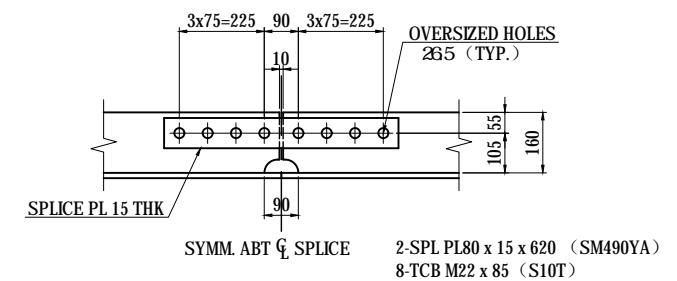


@ 200x20

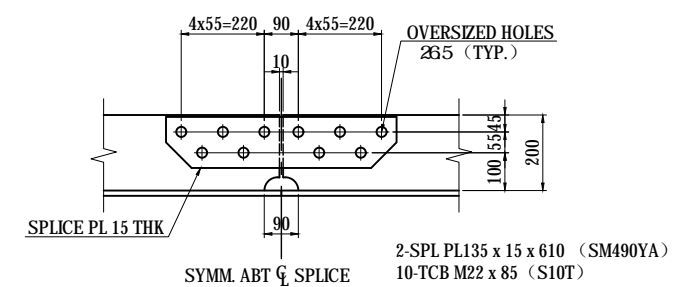


### FOR WELDED

@ 160x16



@ 200x20



#### NOTES:

1 - THIS DWG WORKS WITH DWG NO. P1-CS-1012.

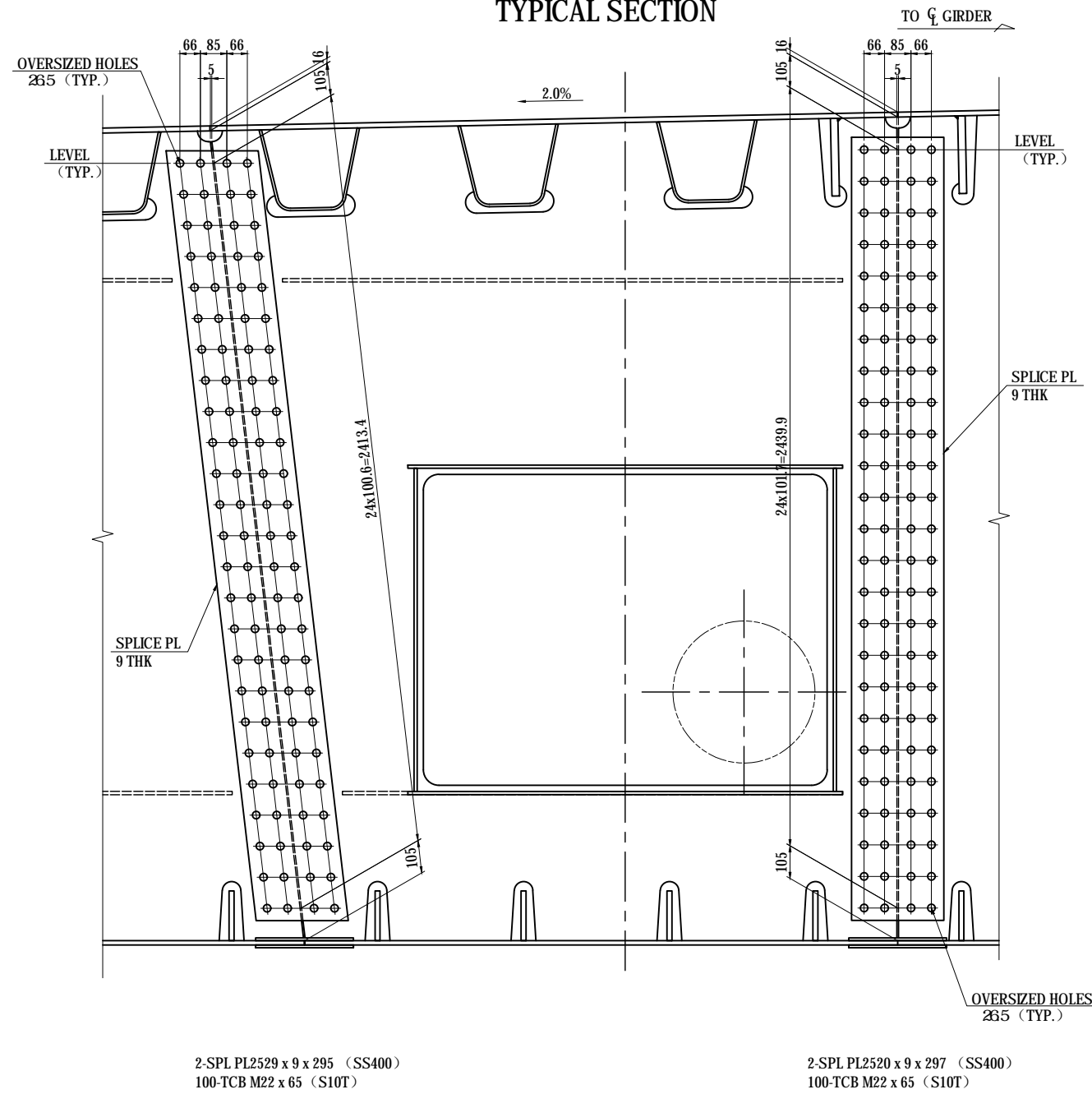
| PROJECT NAME  | FINANCED BY                                       | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE | DATE          | DRAWING TITLE                      | PACKAGE    |
|---|---|--|---|-------------|-----------|---------------|------------------------------------|------------|
| DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | T. TOMODA   | 友田 隆雄     | 27. Nov. 2017 | DETAIL OF MAIN GIRDER STANDARD (5) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov. 2017 |                                    | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov. 2017 |                                    | P1-CS-1016 |



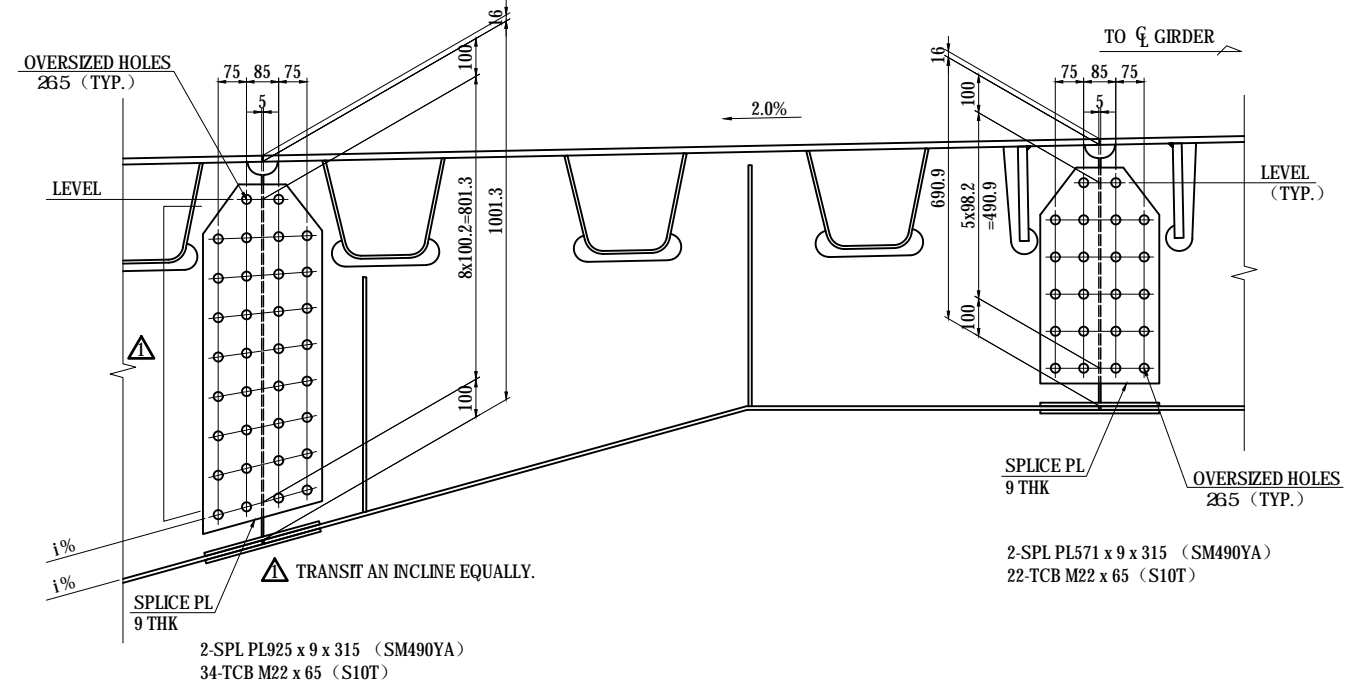
# DETAIL OF MAIN GIRDER STANDARD (6) S=1:20

## DIAPHRAGM, CROSSFRAME & BRACKET WEB

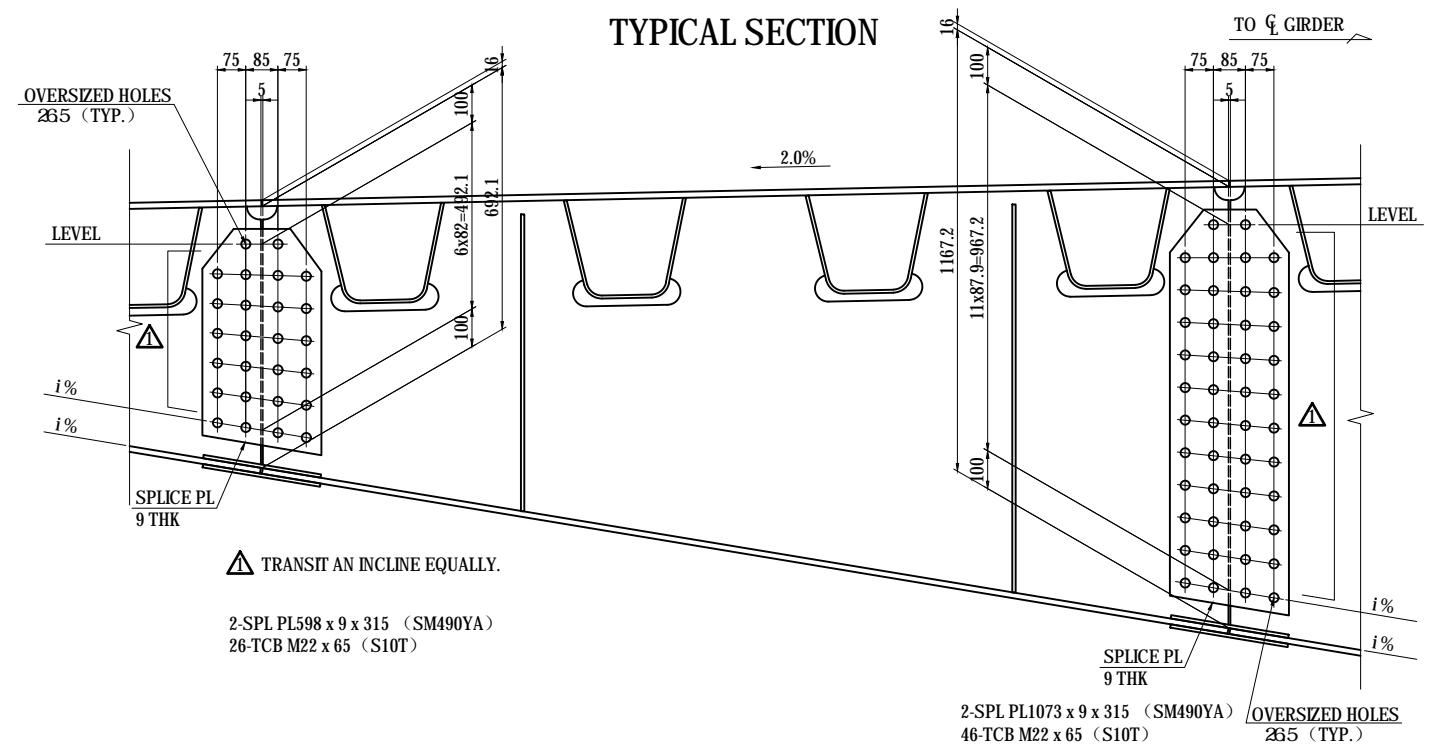
### DIAPHRAGM TYPICAL SECTION



### CROSSFRAME WEB TYPICAL SECTION



### BRACKET WEB TYPICAL SECTION

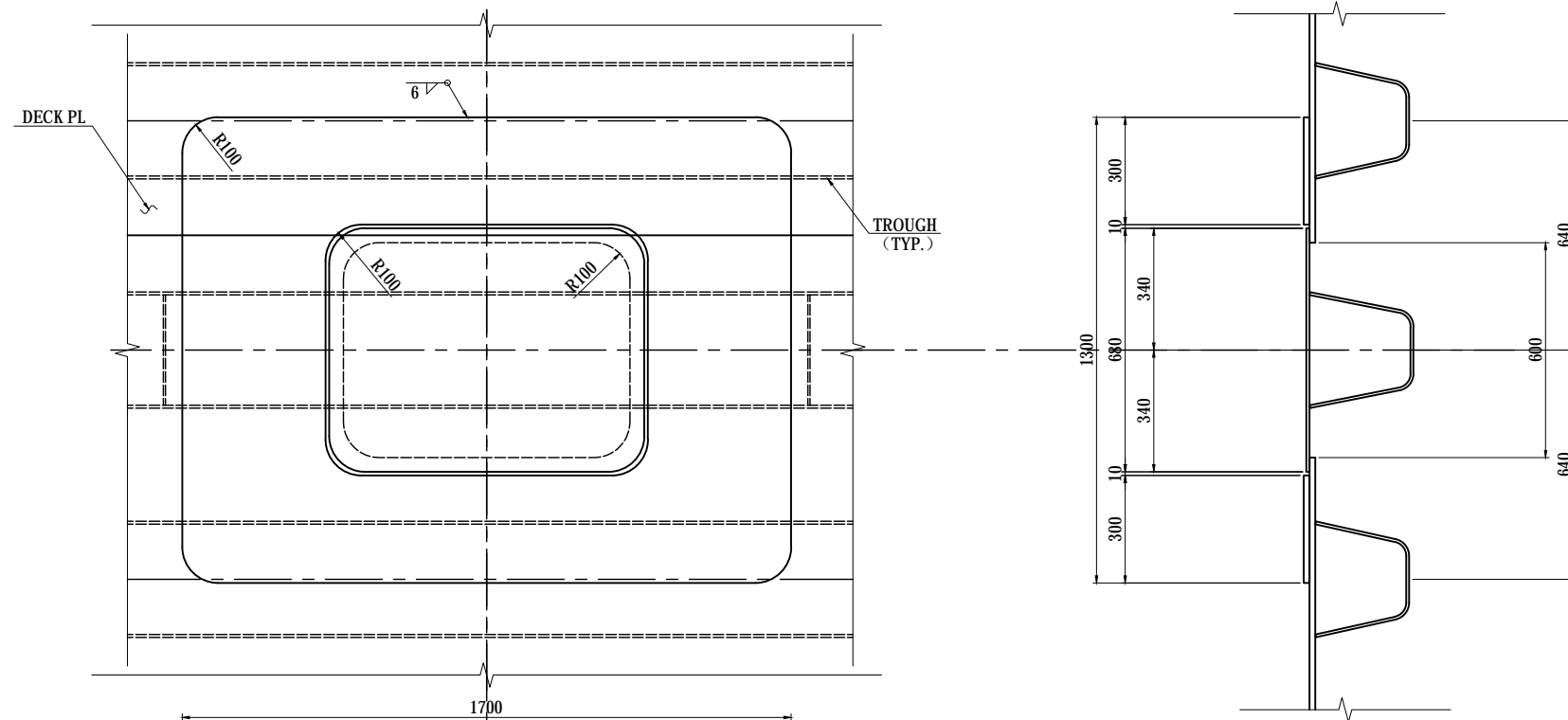


| PROJECT NAME  | FINANCED BY                                       | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE | DATE         | DRAWING TITLE                      | PACKAGE    |
|---|---|--|---|-------------|-----------|--------------|------------------------------------|------------|
| DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | T.TOMODA    | 友田 隆雄     | 27. Nov.2017 | DETAIL OF MAIN GIRDER STANDARD (6) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov.2017 |                                    | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov.2017 |                                    | P1-CS-1017 |

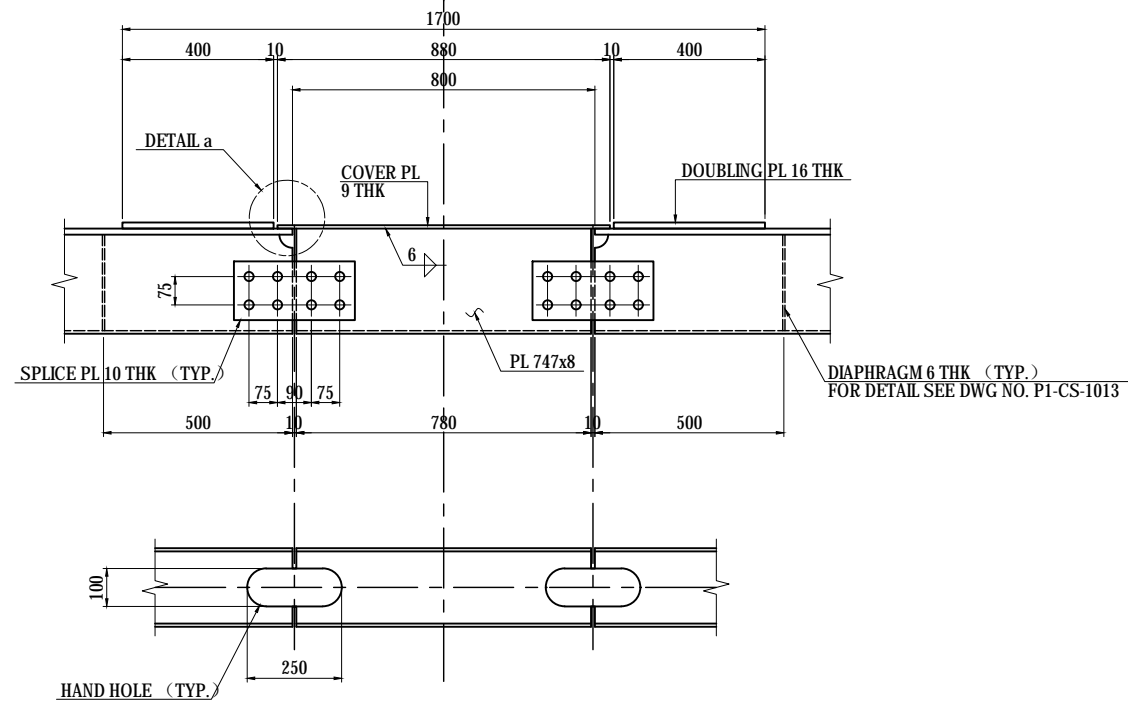
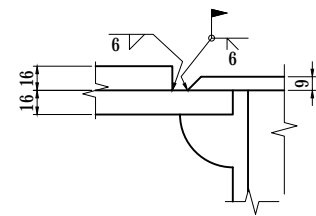
# DETAIL OF MAIN GIRDER STANDARD (7) S=1:20

## DECK PL MANHOLE DETAIL (FOR WORK)

MD-1  
(Q'ty=36)



DETAIL a S=1:5



- 1-PL 1300 x 16 x 1700 (SM400A)
- 1-PL 680 x 9 x 880 (SM400A)
- 1-PL 747 x 8 x 780 (SM400A)
- 2-Dia PL 254 x 6 x 308 (SM400A)
- 8-SPL PL 155 x 10 x 320 (SS400)
- 32-TCB M22 x 65 (S10T)
- 2-M16 LBOLT (JIS,B1168)
- 2-Nut M16 (SUS304)
- 2-Bolt M16 x 25 (SUS304)

### NOTES:

1 - FOR LOCATION SEE DWG NO. P1-CS-1025 TO 1033.

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>NIPPON ENGINEERING CONSULTANTS CO.,LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>DETAIL OF MAIN GIRDER STANDARD (7)</b> | 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-1018 |

# DETAIL OF MAIN GIRDER STANDARD (8) S=1:20

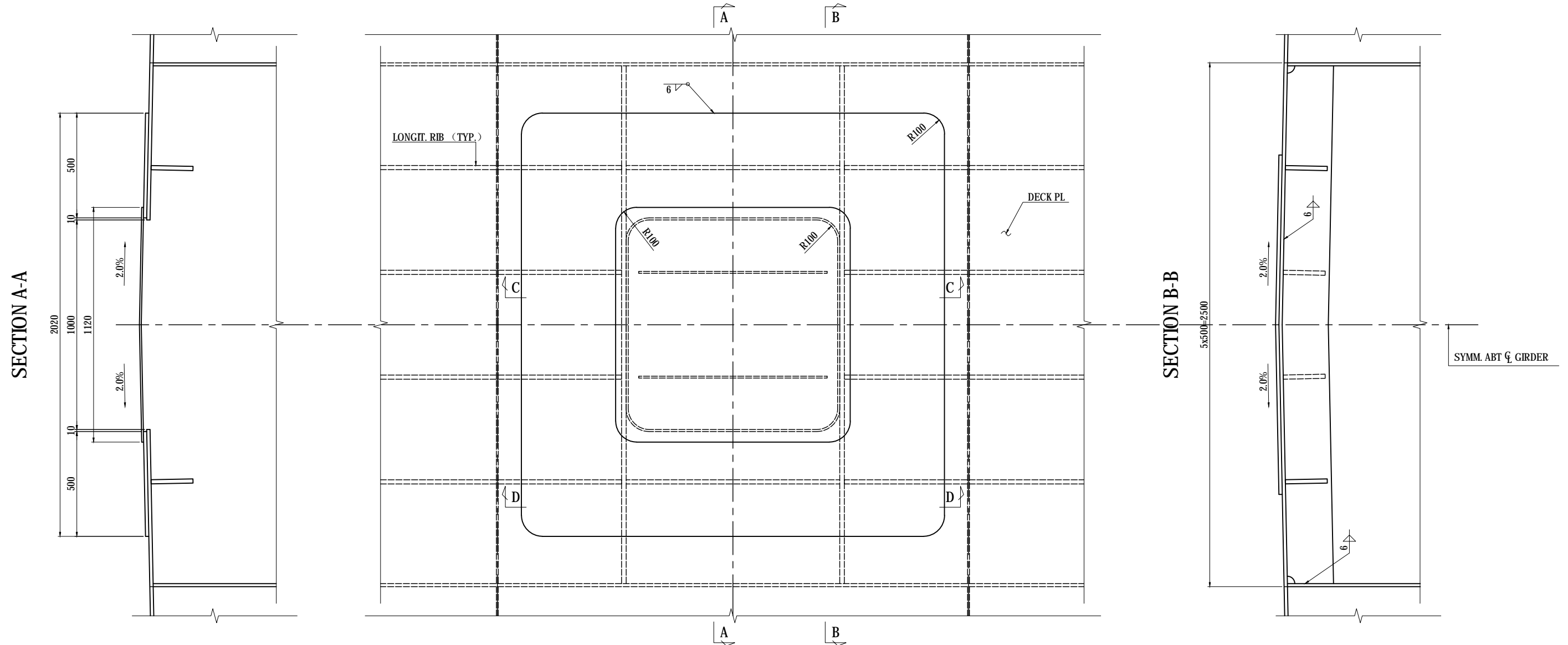
## DECK PL MANHOLE DETAIL (FOR CARRYING)

MD-2  
(Q'ty=40)

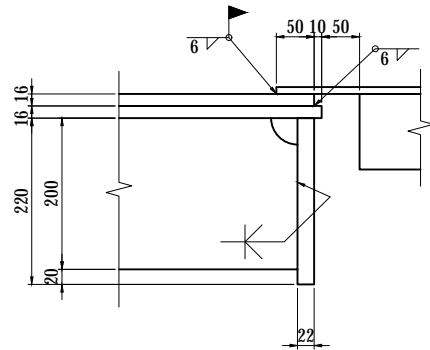
- 1-PL 2020 x 16 x 2020 (SM400A)
- 1-PL 1120 x 9 x 1120 (SM400A)
- 2-FB 100 x 6 x 900 (SS400)
- 2-PL 220 x 22 x 2472 (SM400A)

### NOTES:

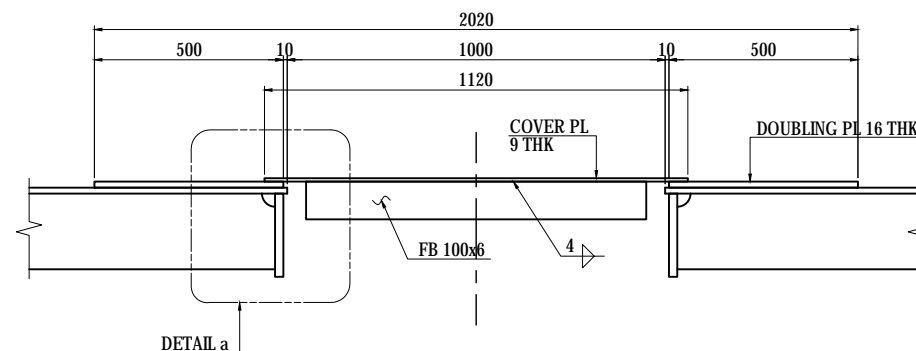
1 - FOR LOCATION SEE DWG NO. P1-CS-1025 TO 1033.



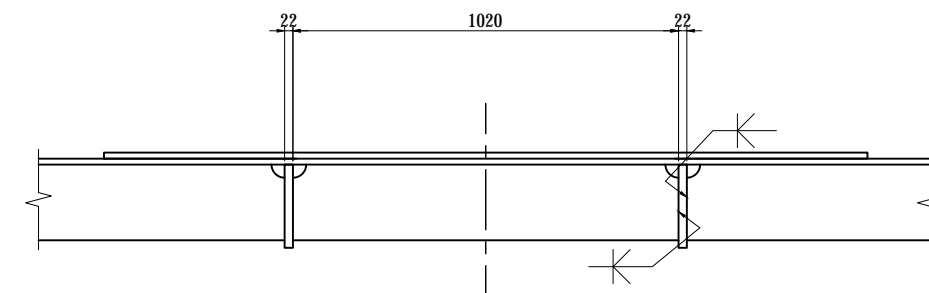
DETAIL a S=1:10



SECTION C-C

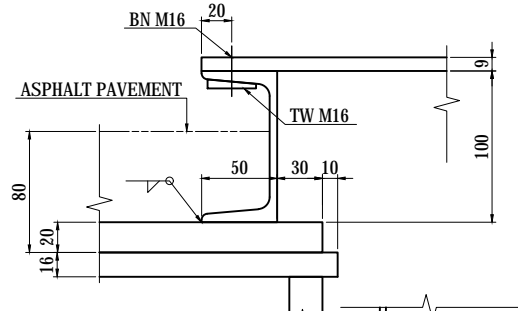


SECTION D-D



|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>DETAIL OF MAIN GIRDER STANDARD (8)</b> | 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-1019 |

SECTION E-E S=1:5



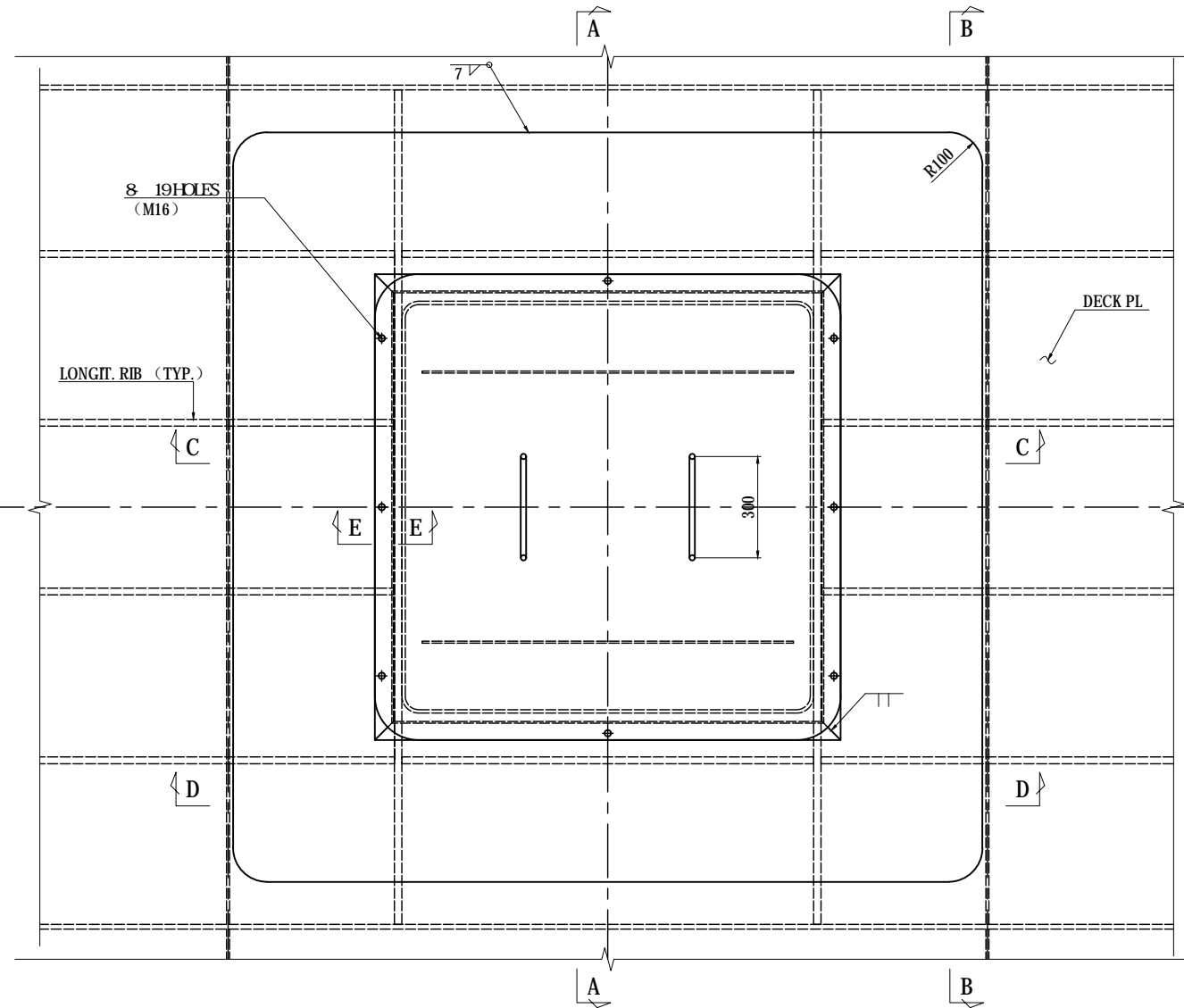
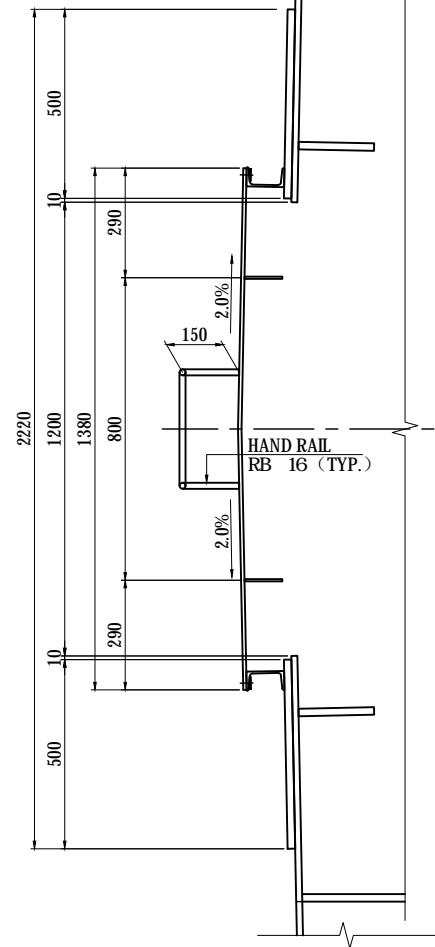
DETAIL OF MAIN GIRDER STANDARD (9) S=1:20  
DECK PL MANHOLE DETAIL (FOR CARRYING AND MAINTENANCE)

MD-3  
(Q'ty=4)

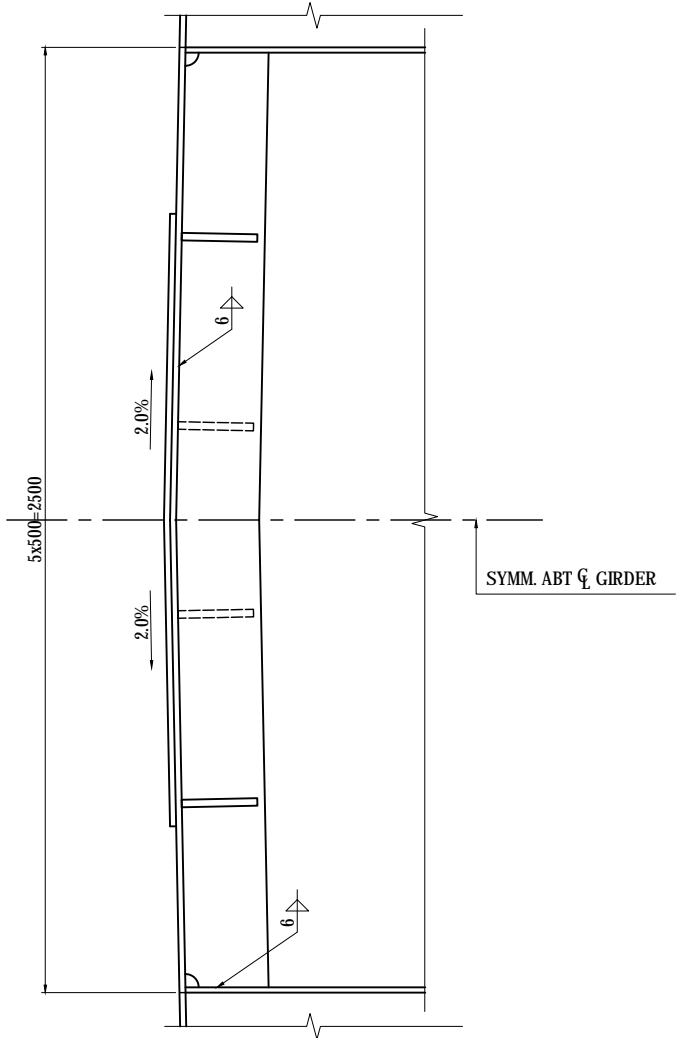
NOTES:  
1 - FOR LOCATION SEE DWG NO. P1-CS-1025 TO 1033.

- 1-PL 2200 x 20 x 2200 (SM400A)
- 1-PL 1380 x 9 x 1380 (SM400A)
- 2-FB 100 x 6 x 1100 (SS400)
- 2-PL 220 x 22 x 2472 (SM400A)
- 4-CH 100 x 50 x 5 x 7.5 x 1380 (SS400)
- 8-BN M16 x 40 (1-TW) (SUS304)
- 2-RB 10x600 (SS400)

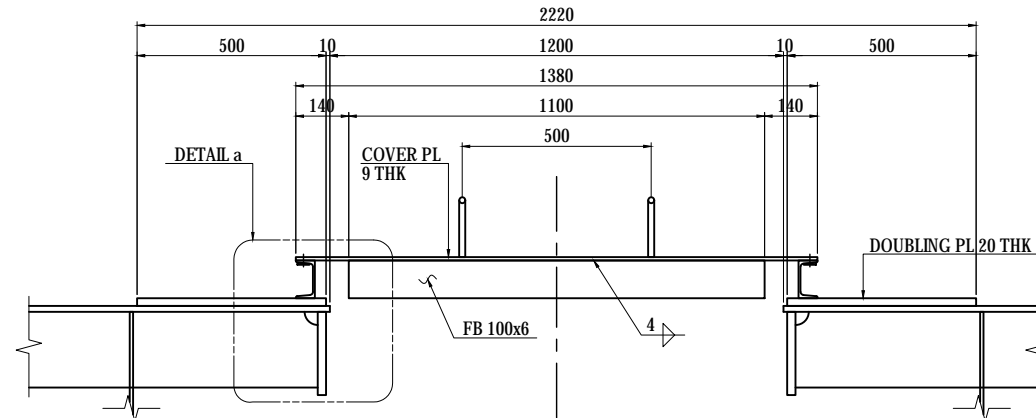
SECTION A-A



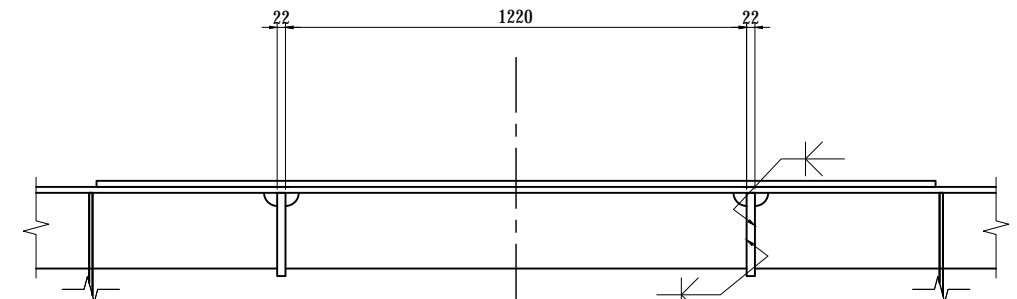
SECTION B-B



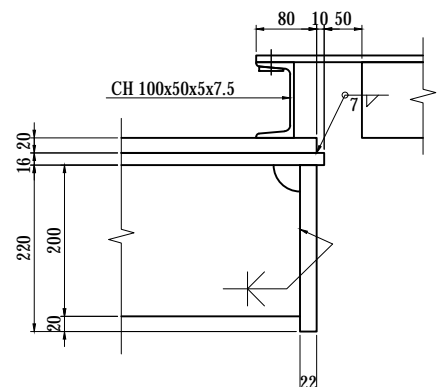
SECTION C-C



SECTION D-D



DETAIL a S=1:10

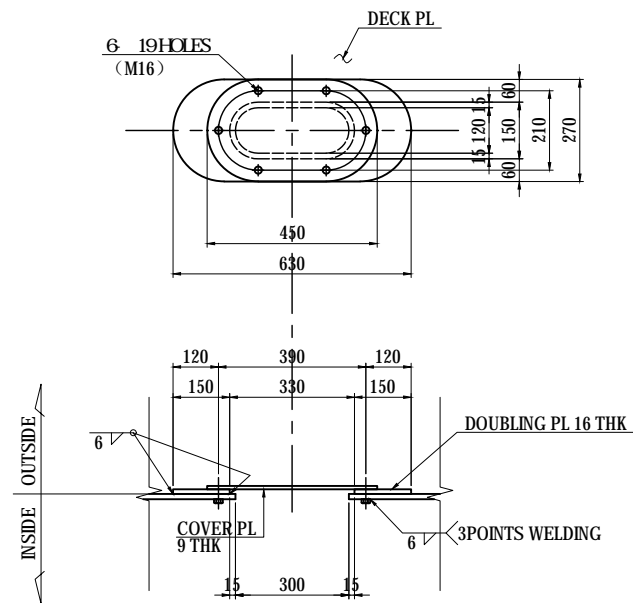


|   |  |   |  |             |             |       |   |              |            |
|---|--|---|--|-------------|-------------|-------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE<br>DETAIL OF MAIN GIRDER STANDARD (9) | PACKAGE      |            |
|   |  |   |  | PREPARED BY | T.TOMODA    | 友田 隆雄 |   | 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-1020 |

# DETAIL OF MAIN GIRDER STANDARD (10) S=1:20

## HANDHOLE DETAIL

**H.H**  
(Q'ty=156)

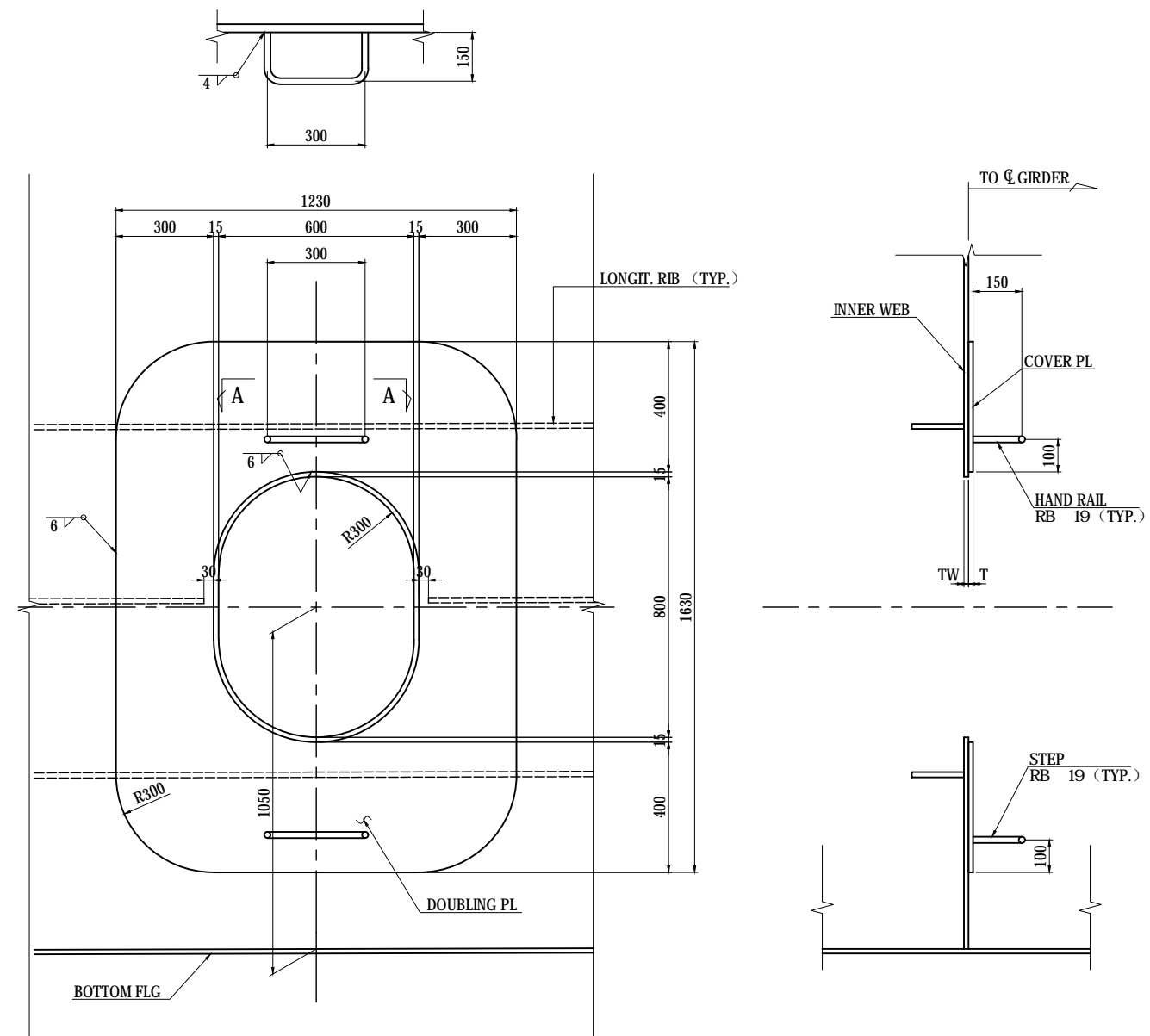


- 1-PL 270 x 16 x 630 (SM400A)
- 1-PL 270 x 9 x 450 (SS400)
- 6-BN M16 x 60 (SUS304)

## INNER WEB MANHOLE DETAIL

**MW-1<MW2>**

### SECTION A-A



- 1-PL 1230 x T x 1630 (MATERIAL)
- 2RB 19x100 (SS400)

|      | TW | T  | MATERIAL | Q'ty |
|------|----|----|----------|------|
| MW-1 | 14 | 14 | SM490YA  | 36   |
| MW-2 | 17 | 17 | SM490YB  | 4    |

### NOTES:

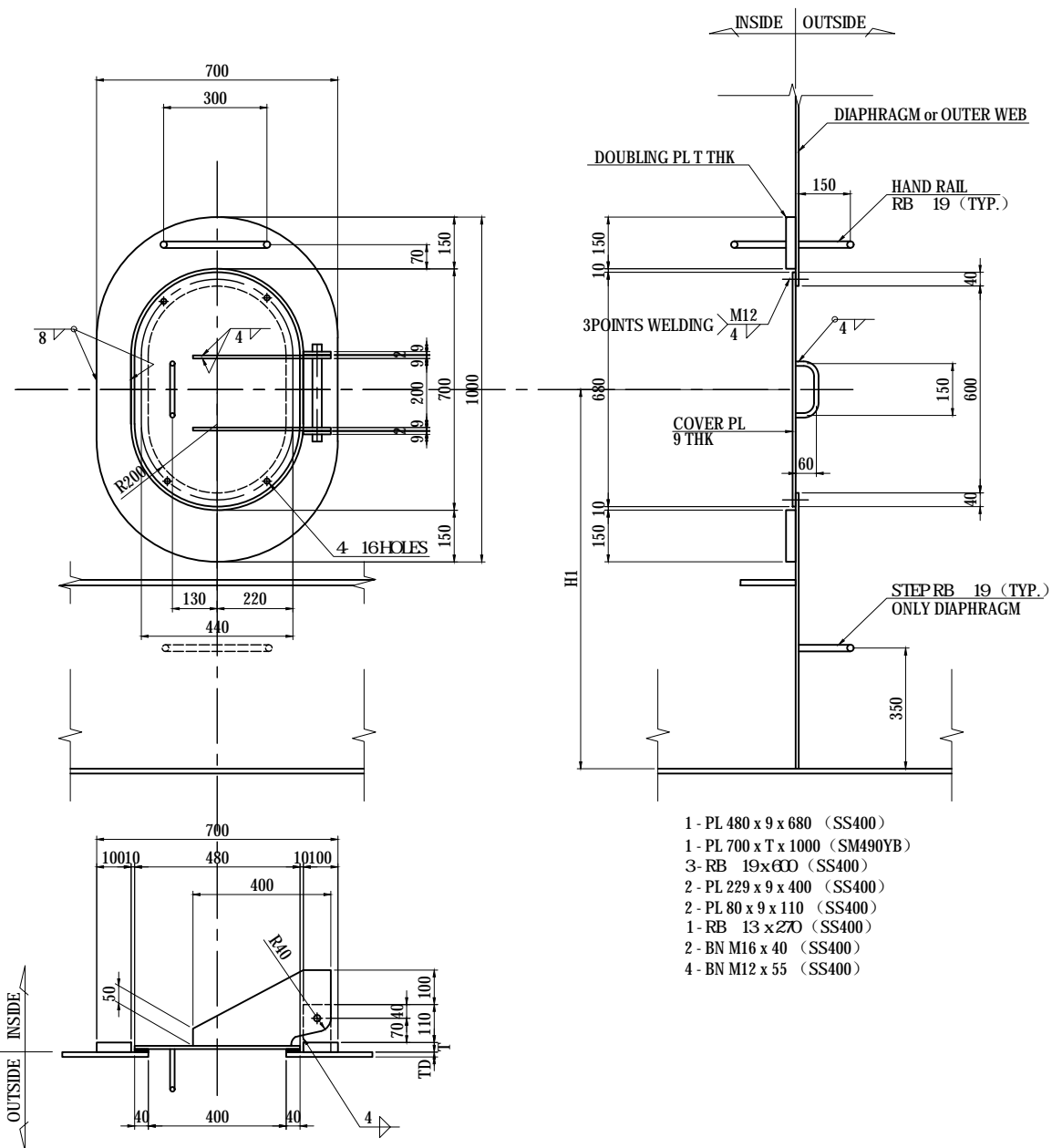
1 - FOR LOCATION SEE DWG NO. P1-CS-1025 TO 1033.

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> <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> </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><br><h2 style="text-align: center;">DETAIL OF MAIN GIRDER STANDARD (10)</h2> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1021 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

# DETAIL OF MAIN GIRDER STANDARD (11) S=1:20

## DIAPHRAGM MANHOLE DETAIL

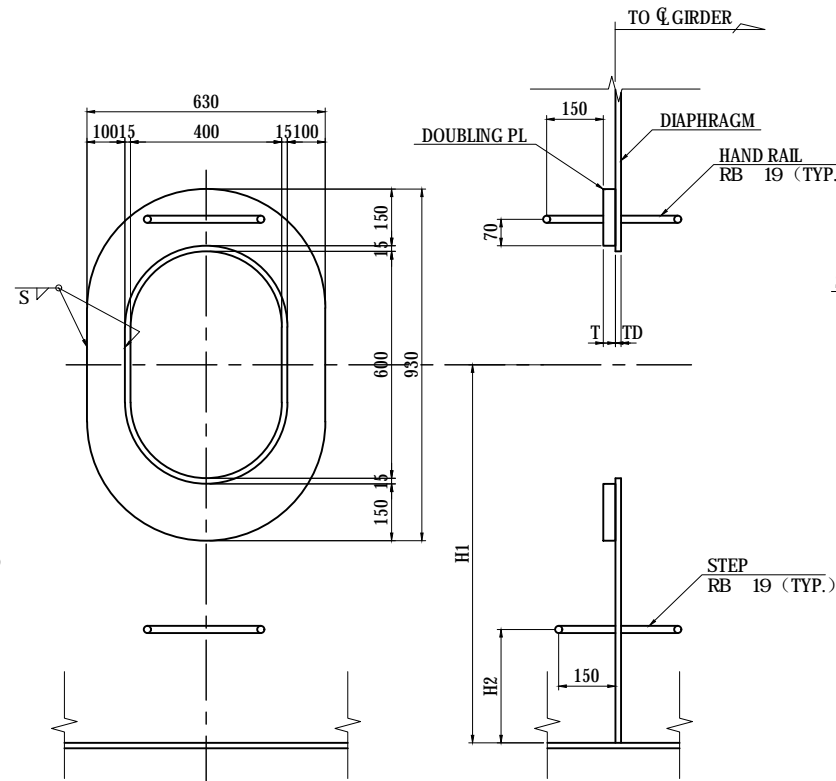
### ME-1 & 2



- 1 - PL 480 x 9 x 680 (SS400)
- 1 - PL 700 x T x 1000 (SM490YB)
- 3- RB 19x600 (SS400)
- 2 - PL 229 x 9 x 400 (SS400)
- 2 - PL 80 x 9 x 110 (SS400)
- 1 - RB 13 x 270 (SS400)
- 2 - BN M16 x 40 (SS400)
- 4 - BN M12 x 55 (SS400)

|      | H1   | TD | T  | MATERIAL | Q'ty | S |
|------|------|----|----|----------|------|---|
| ME-1 | 1100 | 14 | 28 | SM490YB  | 4    | 8 |
| ME-2 | 900  | 17 | 34 | SM490YB  | 2    | 9 |

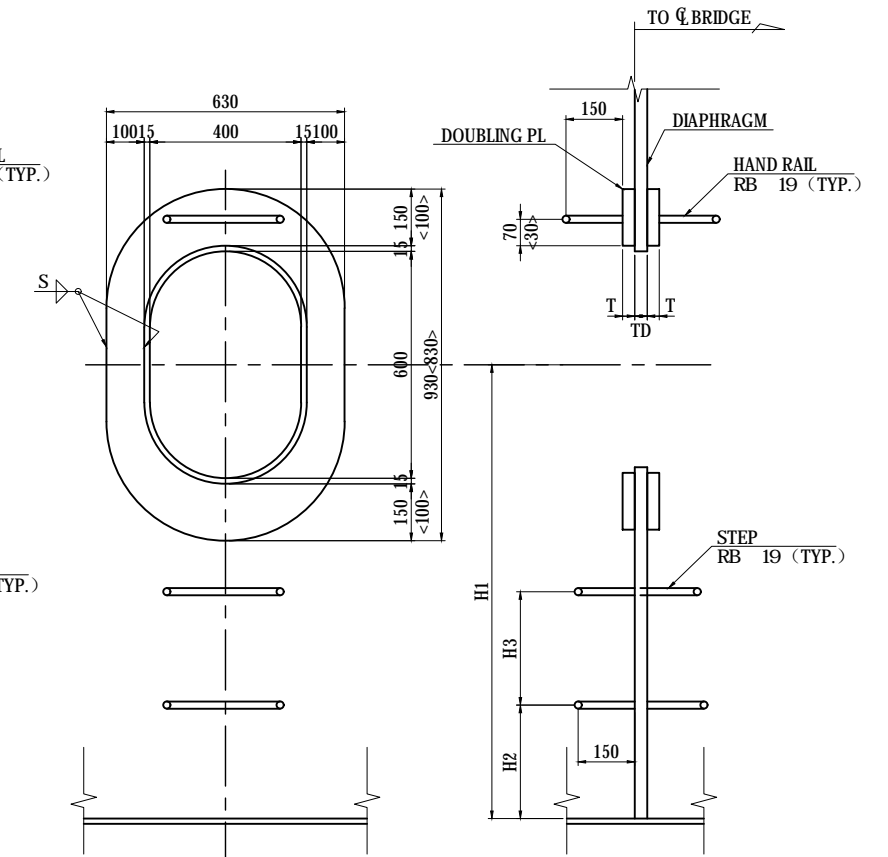
### MP-1,2 & 3



- 1-PL 630 x T x 930 (MATERIAL)
- 4RB 19x600 (SS400)

|      | H1   | H2  | TD | T  | MATERIAL | Q'ty | S  |
|------|------|-----|----|----|----------|------|----|
| MP-1 | 1100 | 350 | 14 | 28 | SM490YB  | 4    | 8  |
| MP-2 | 900  | 300 | 14 | 28 | SM490YB  | 4    | 8  |
| MP-3 | 900  | 300 | 22 | 44 | SM520C-H | 8    | 10 |

### <MP-4>,5 & 6



- 2-PL 630 x T x 930-830 (MATERIAL)
- 6-2-RB 19x600 (SS400)

|      | H1   | H2  | H3  | TD | T  | MATERIAL | Q'ty | S  |
|------|------|-----|-----|----|----|----------|------|----|
| MP-4 | 470  | -   | -   | 35 | 53 | SM520C-H | 4    | 11 |
| MP-5 | 1200 | 300 | 300 | 35 | 35 | SM490YB  | 8    | 9  |
| MP-6 | 900  | 300 | -   | 50 | 50 | SM520C-H | 4    | 10 |

### NOTES:

1 - FOR LOCATION SEE DWG NO. P1-CS-1025 TO 1033.

|   |  |   |  |             |             |       |  |                                       |              |
|---|--|---|--|-------------|-------------|-------|--|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE<br>DETAIL OF MAIN GIRDER STANDARD (11) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1022 |              |
|   |  |   |  | 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 |

# DETAIL OF MAIN GIRDER STANDARD (12) S=1:40

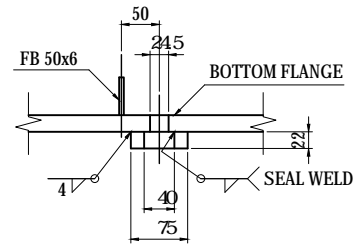
## DRAINAGE DETAIL FOR BOTTOM FLANGE

### TYPICAL SEGMENT

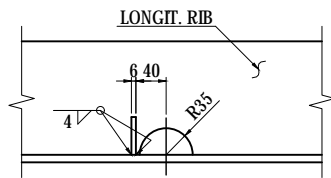
1-FB 50 x 6 x 479 (SS400)      3-FB 50 x 6 x 493 (SS400)  
 1-FB 50 x 6 x 572 (SS400)      1-PL 75 x 22 x 75  
 1-PL 75 x 22 x 75

TO CL BRIDGE

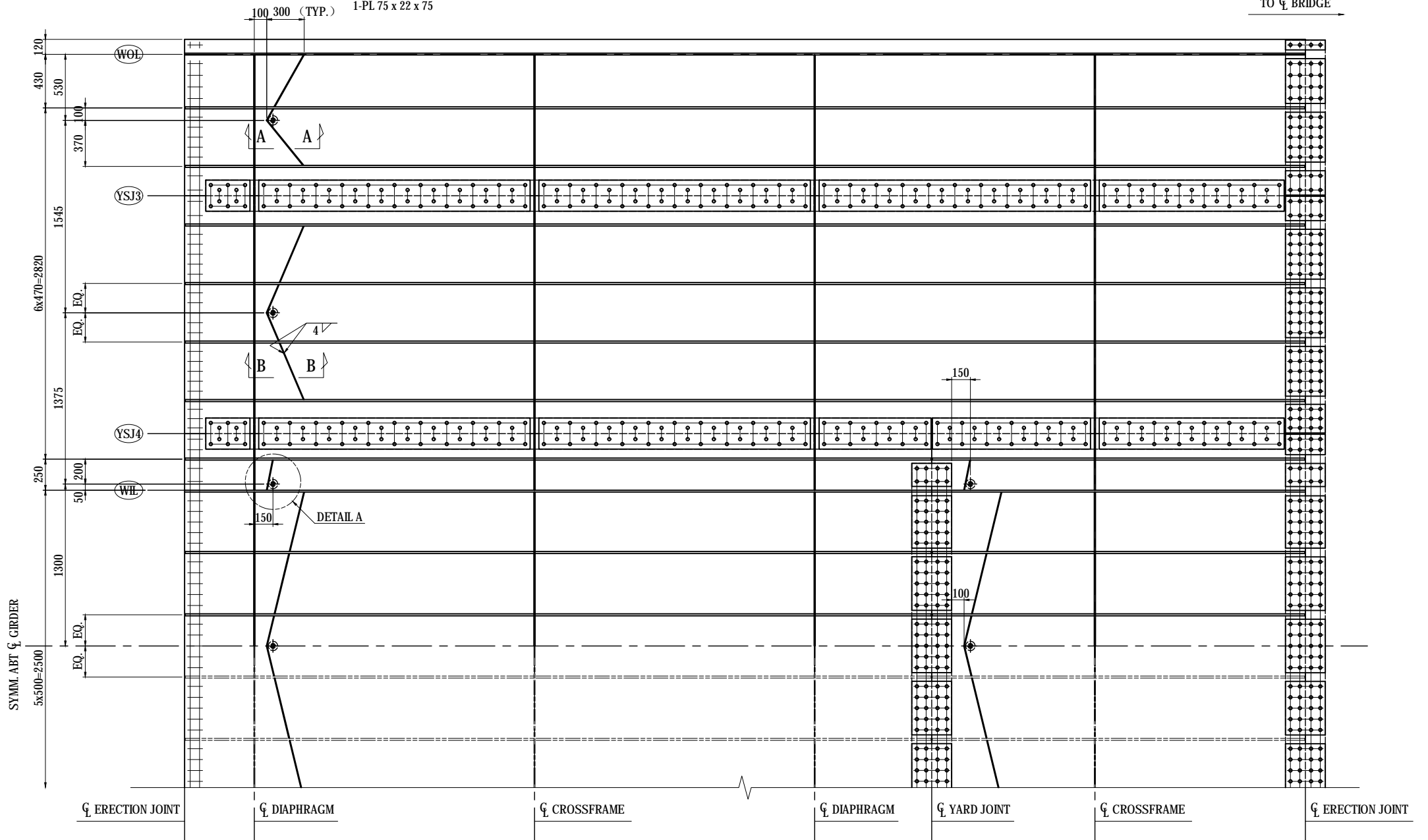
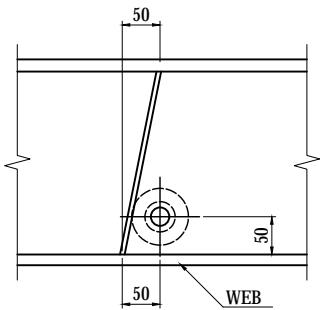
SECTION A-A S=1:10



SECTION B-B S=1:10



DETAIL A S=1:10



3-FB 50 x 6 x 498 (SS400)  
 2-FB 50 x 6 x 492 (SS400)  
 2-FB 50 x 6 x 247 (SS400)  
 3-PL 75 x 22 x 75

3-FB 50 x 6 x 498 (SS400)  
 2-FB 50 x 6 x 492 (SS400)  
 2-FB 50 x 6 x 247 (SS400)  
 3-PL 75 x 22 x 75

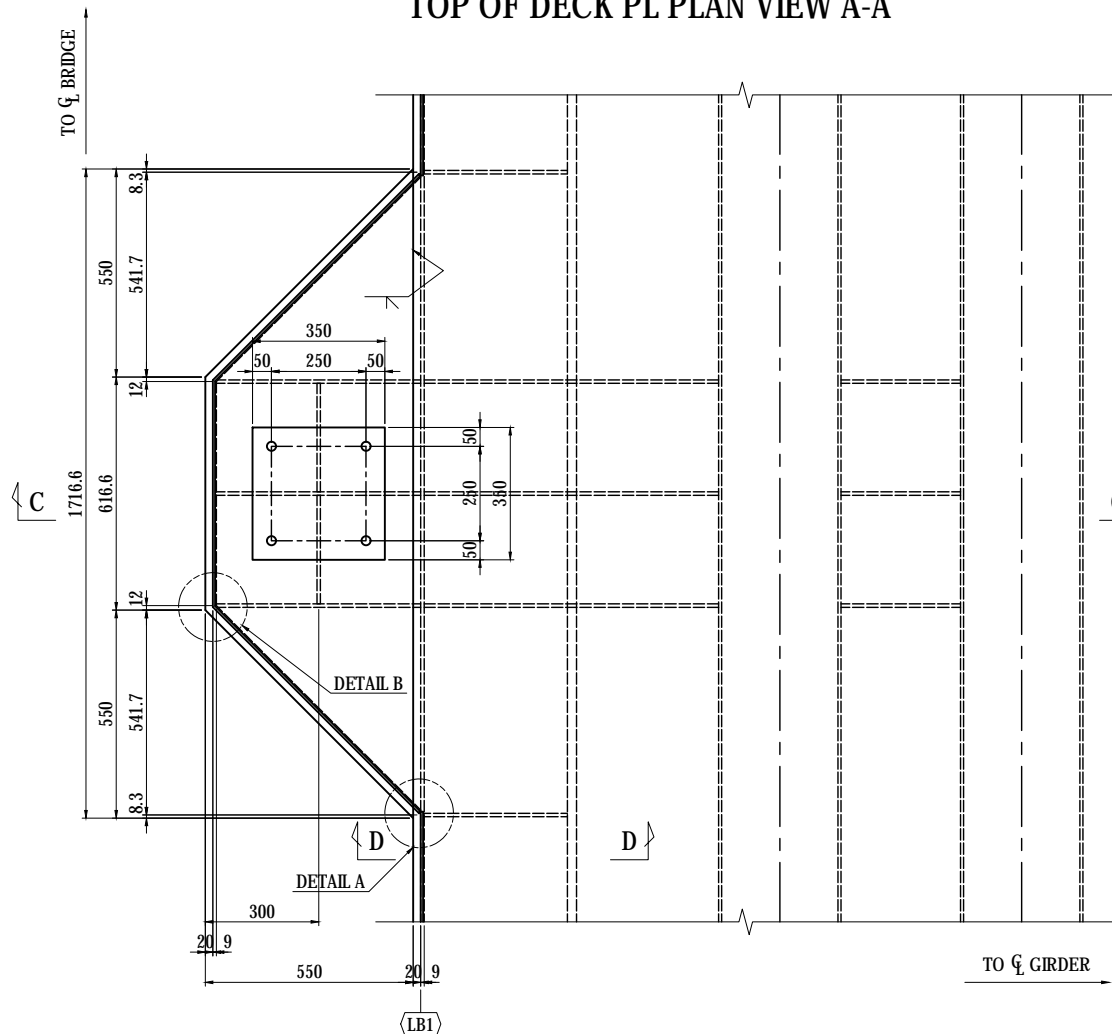
**NOTES:**  
 1 - SET DRAINAGE IN LOWER LONGITUDINAL GRADIENT SIDE.

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>DETAIL OF MAIN GIRDER STANDARD (12) | 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-1023 |

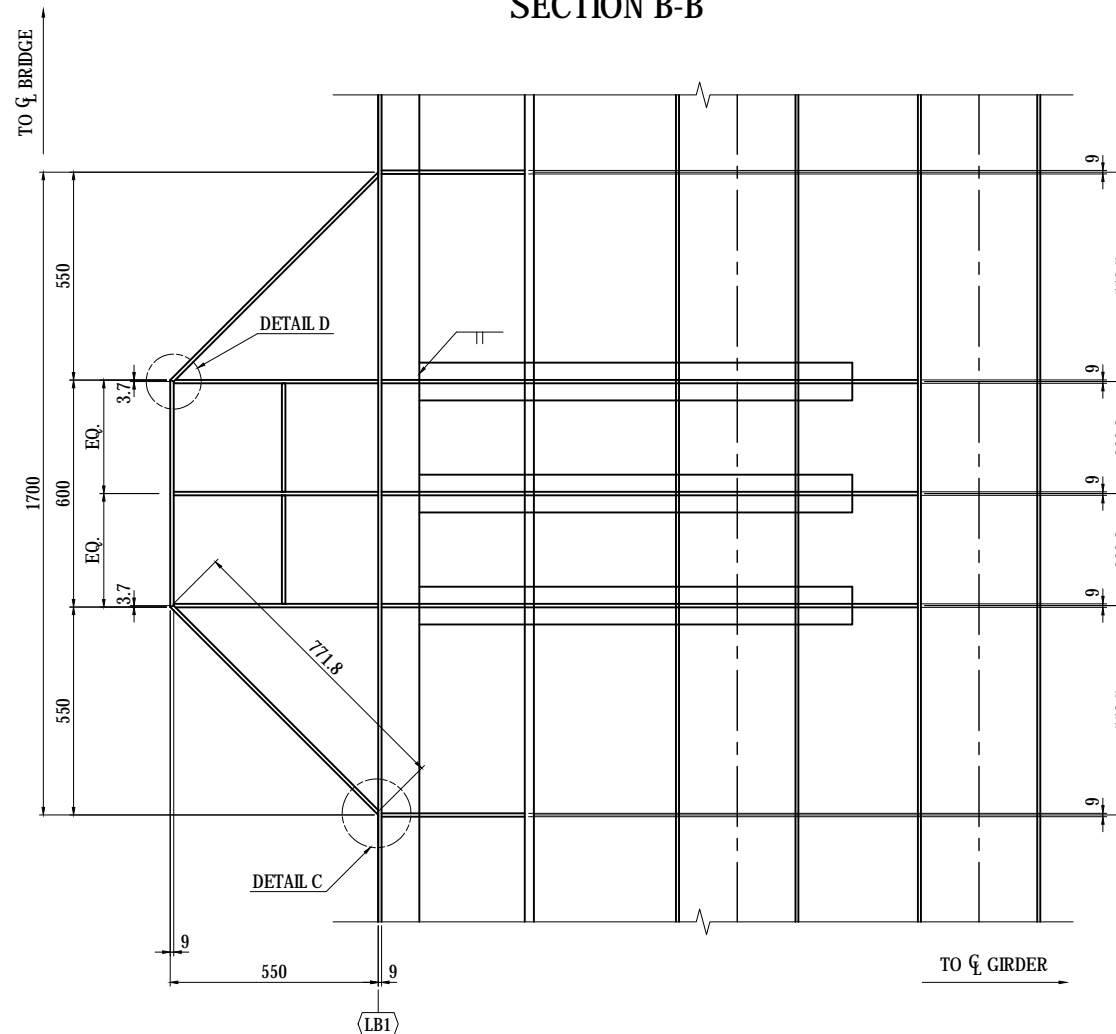
# DETAIL OF MAIN GIRDER STANDARD (13) S=1:20

## WIDENING OF TOP OF DECK PL FOR LIGHTING POST

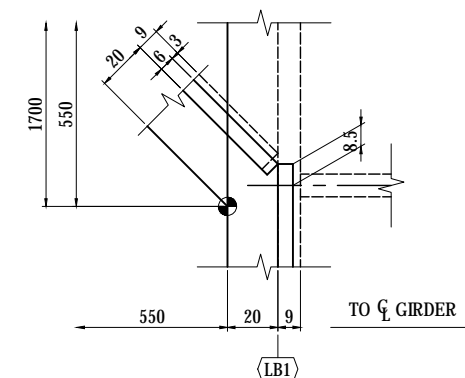
TOP OF DECK PL PLAN VIEW A-A



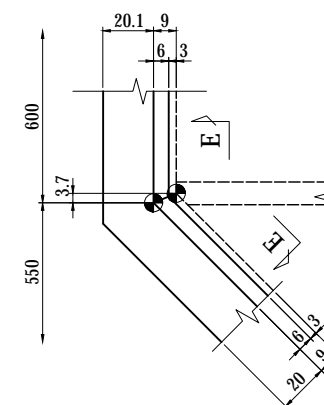
SECTION B-B



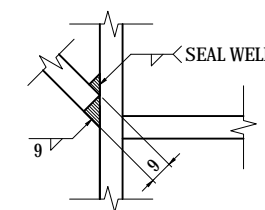
DETAIL A S=1:3



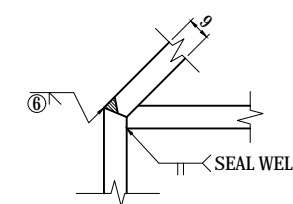
DETAIL B S=1:3



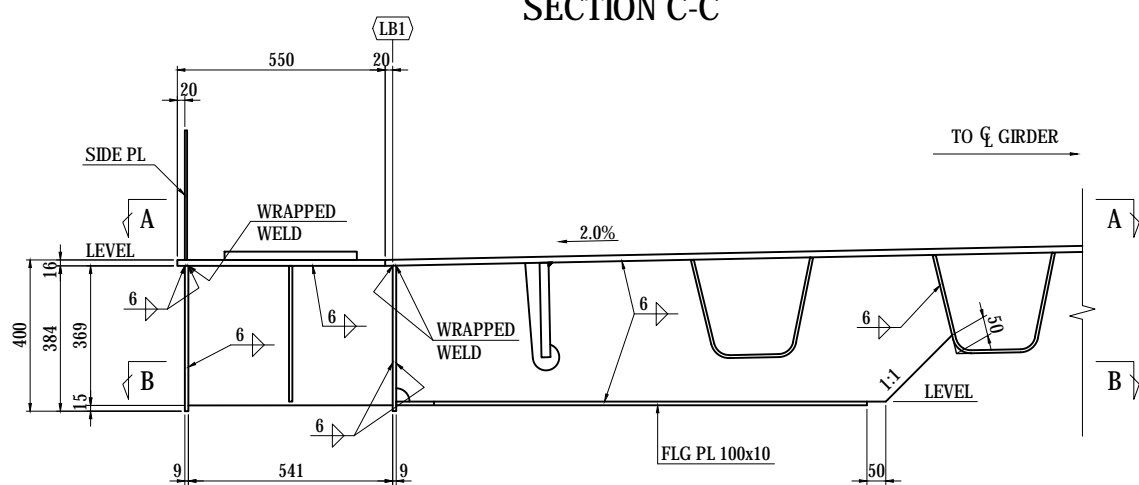
DETAIL C S=1:3



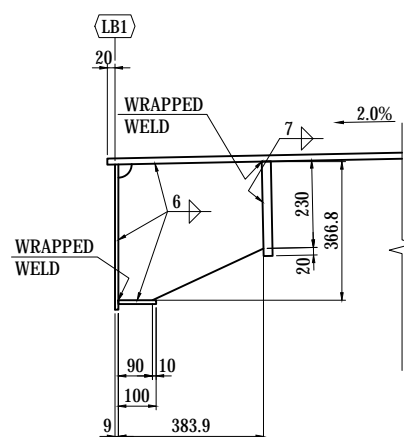
DETAIL D S=1:3



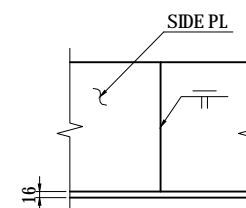
SECTION C-C



SECTION D-D



DEV. SECTION F-F



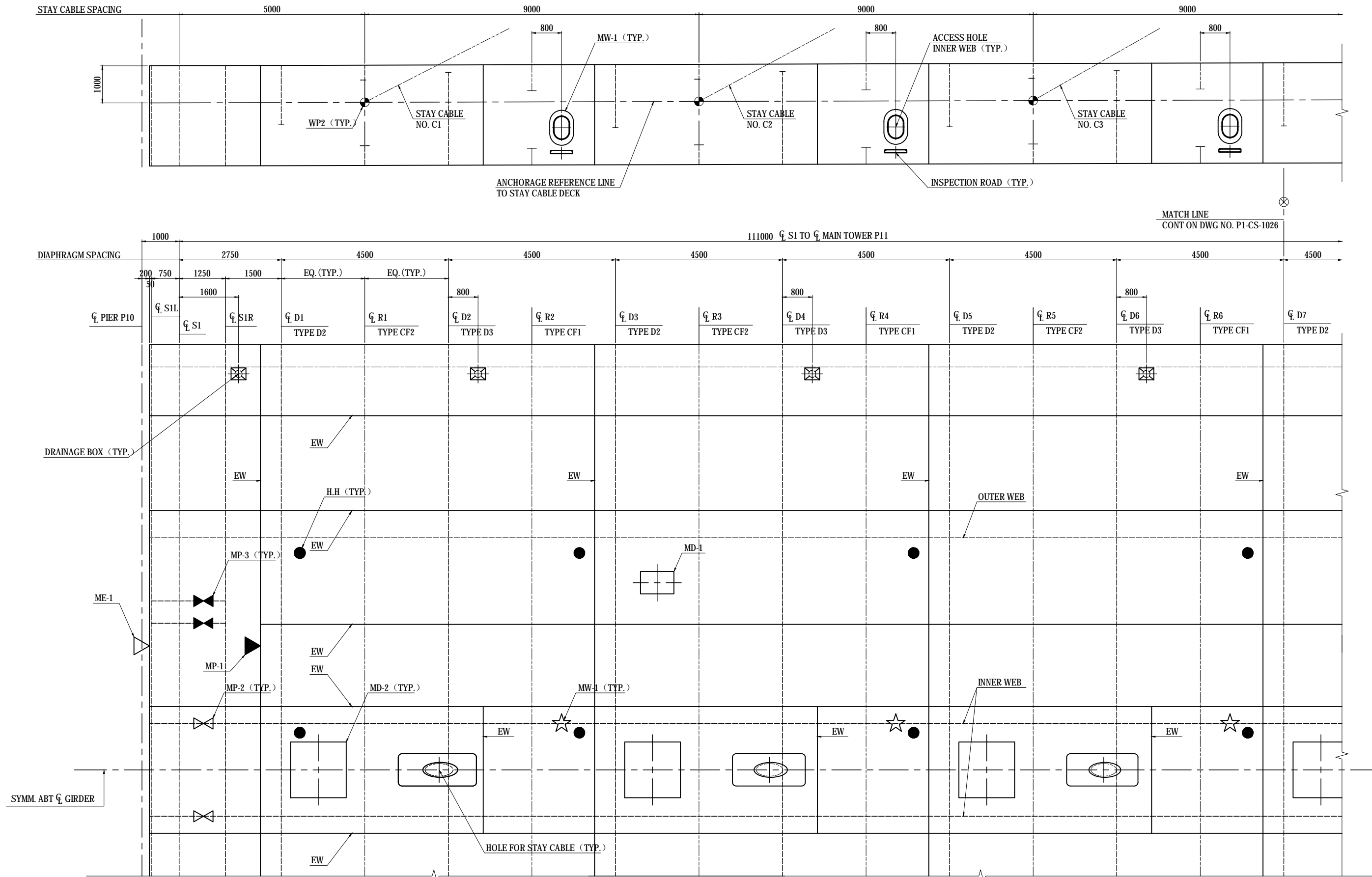
- 1-DECK PL 550 x 16 x 1717
- 1-WEB PL 384 x 9 x 2144
- 3-RIB PL 369 x 9 x 541
- 2-RIB PL 367 x 9 x 384
- 3-WEB PL 388 x 9 x 1471
- 3-FLG PL 100 x 10 x 1146
- 2-RIB PL 359 x 9 x 286
- 1-BASE PL 350 x 22 x 350

**NOTES:**  
1 - SEE THE ELECTRICAL DRAWING FOR DETAIL ON LIGHTING.

|   |  |   |  |             |             |      |   |                                       |              |
|---|--|---|--|-------------|-------------|------|---|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>DETAIL OF MAIN GIRDER STANDARD (13)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1024 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |   |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |   |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |   |                                       | 29. Nov.2017 |



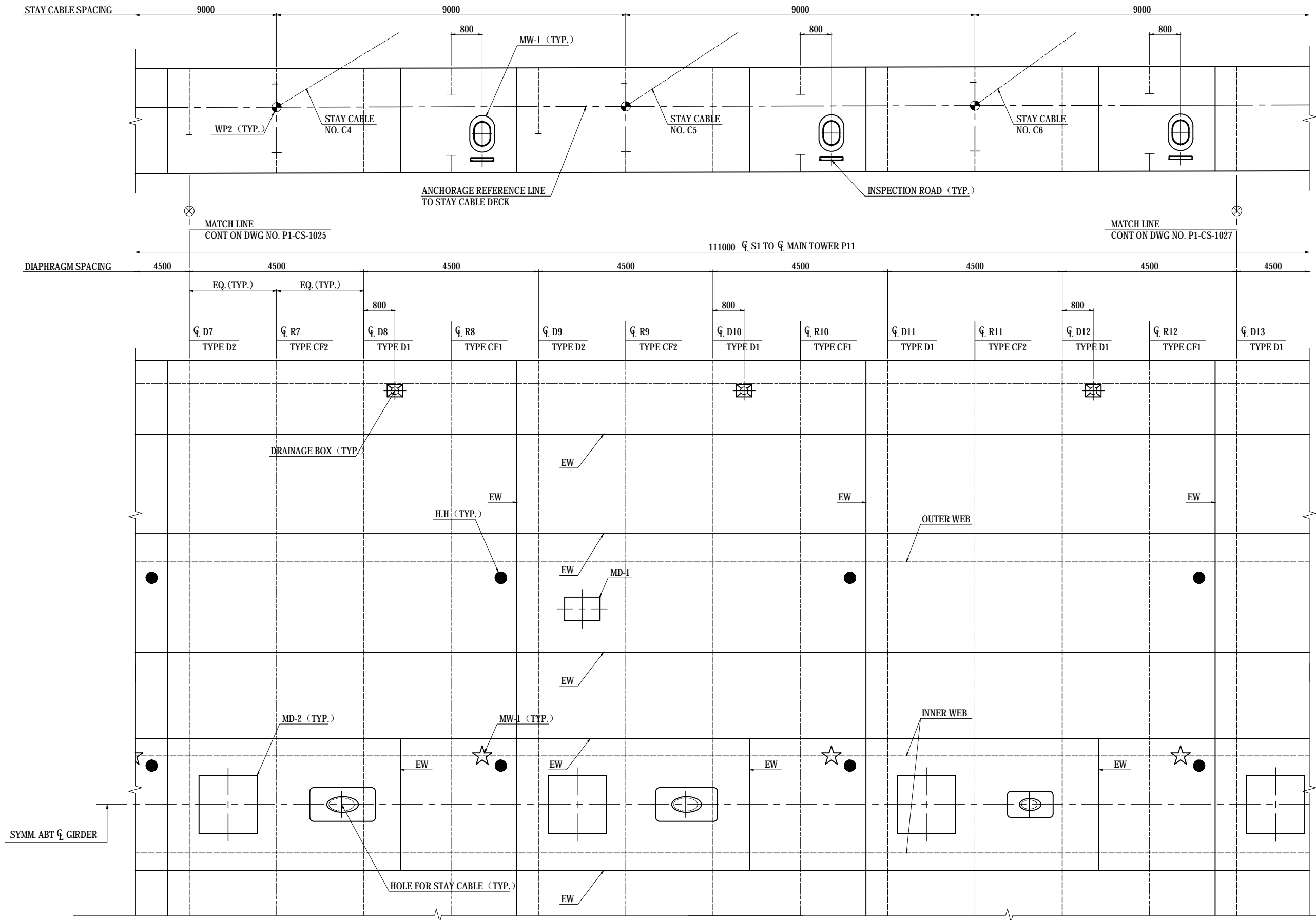
# BAR ARRANGEMENT OF MAIN GIRDER (1) S=1:100



MATCH LINE  
CONT ON DWG NO. P1-CS-1026

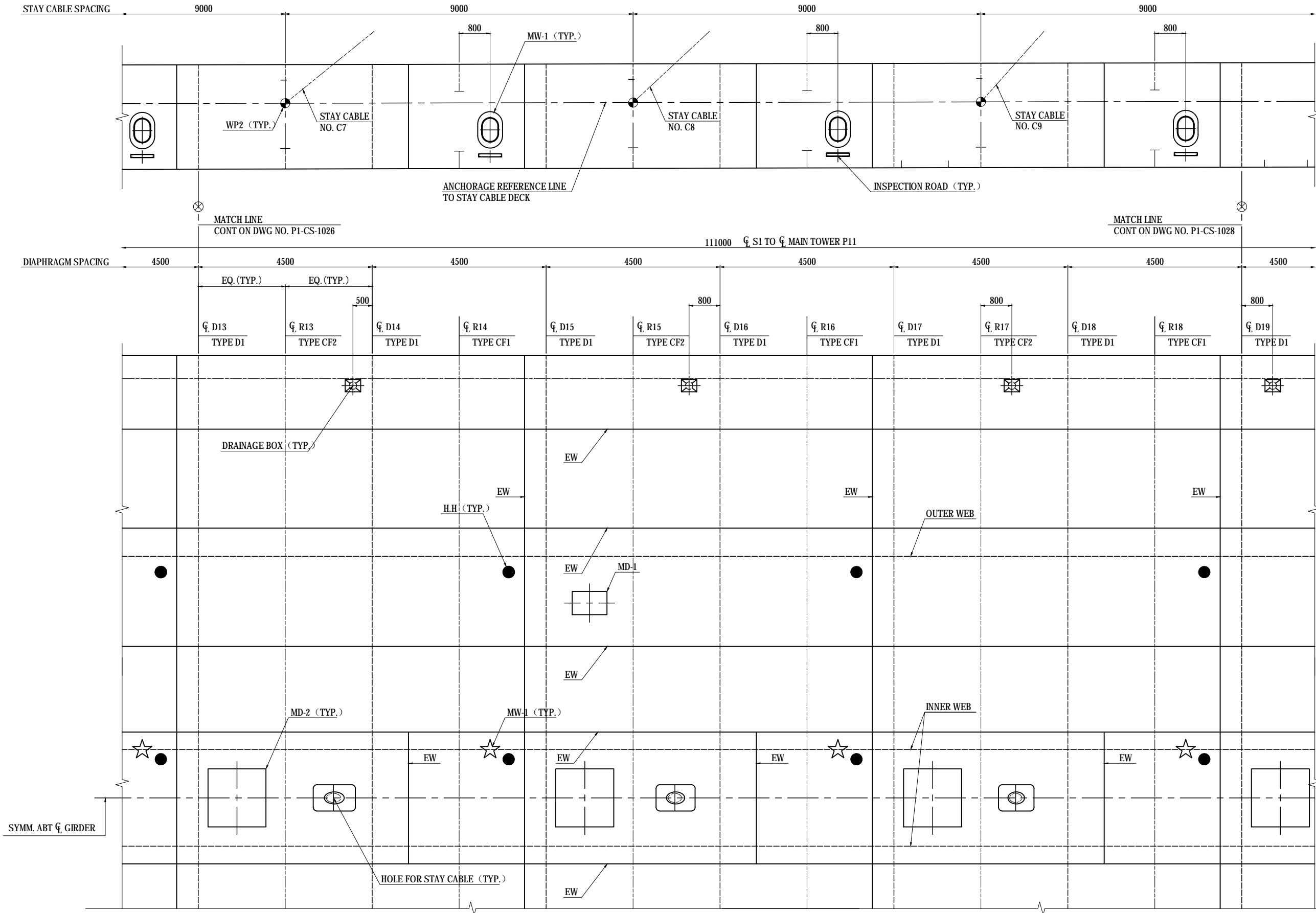
| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><h2 style="text-align: center;">BAR ARRANGEMENT OF MAIN GIRDER (1)</h2> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1025 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|---|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |

# BAR ARRANGEMENT OF MAIN GIRDER (2) S=1:100



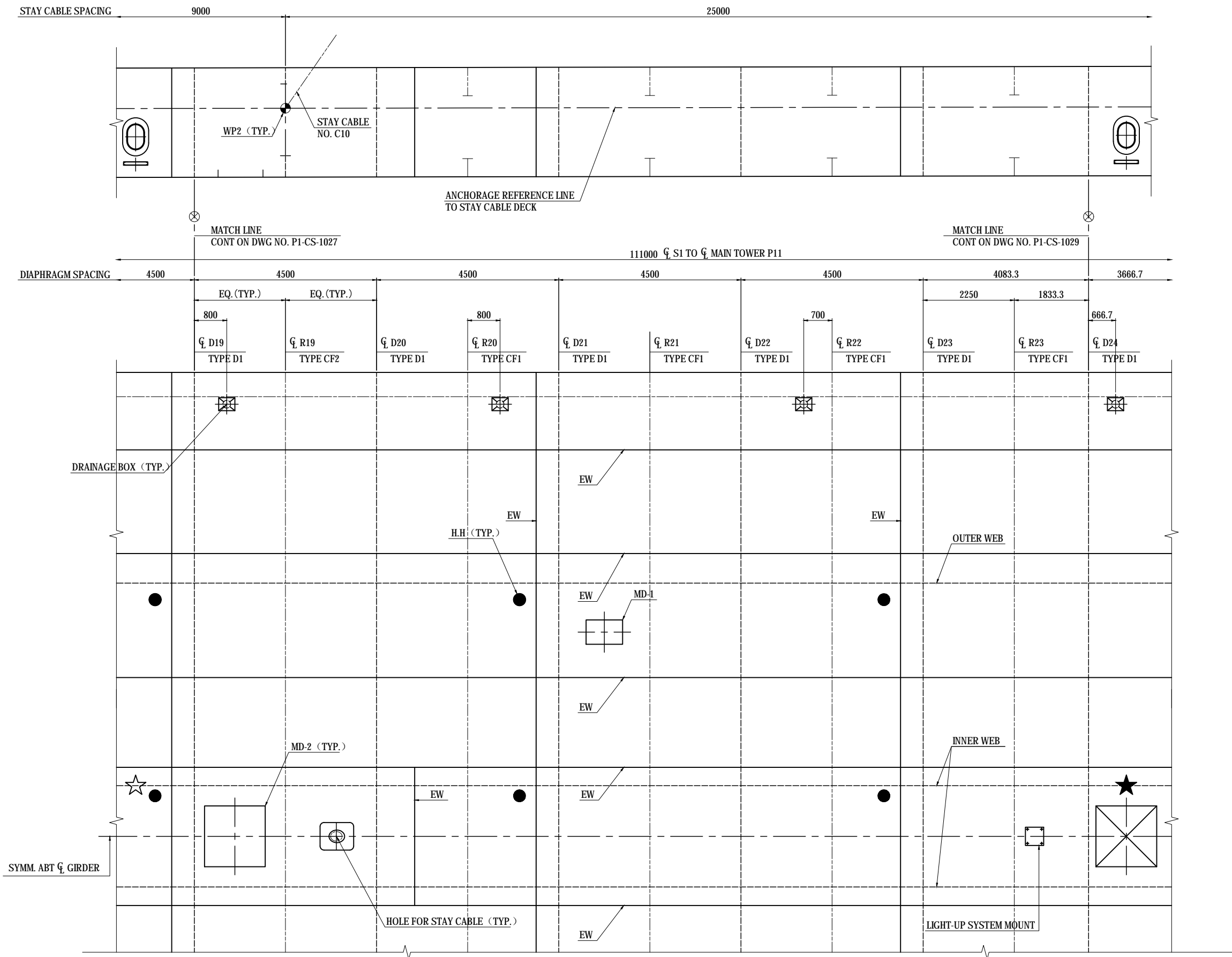
| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br>BAR ARRANGEMENT OF MAIN GIRDER (2) | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1026 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

# BAR ARRANGEMENT OF MAIN GIRDER (3) S=1:100



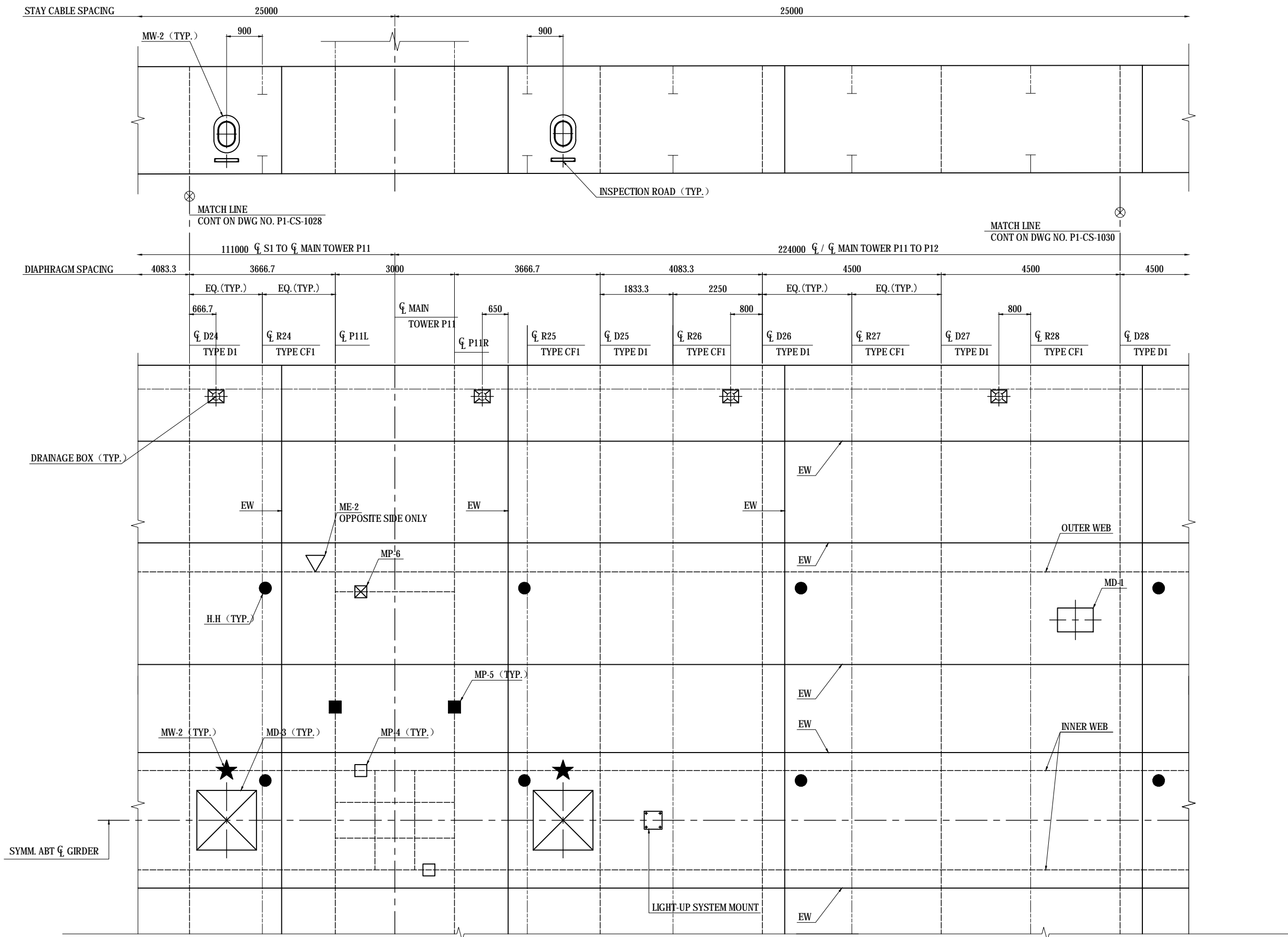
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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<br><h2 style="text-align: center;">BAR ARRANGEMENT OF MAIN GIRDER (3)</h2> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1027 |
|---|--|---|--|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|---------------------------------------|
|   | NAME   | SIGNATURE   | DATE   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |
| PREPARED BY   | T.TOMODA   |   | 27. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |
| CHECKED BY  | T. HAYAKAWA  |   | 28. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |
| APPROVED BY   | Y. SANO  |   | 29. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |

# BAR ARRANGEMENT OF MAIN GIRDER (4) S=1:100



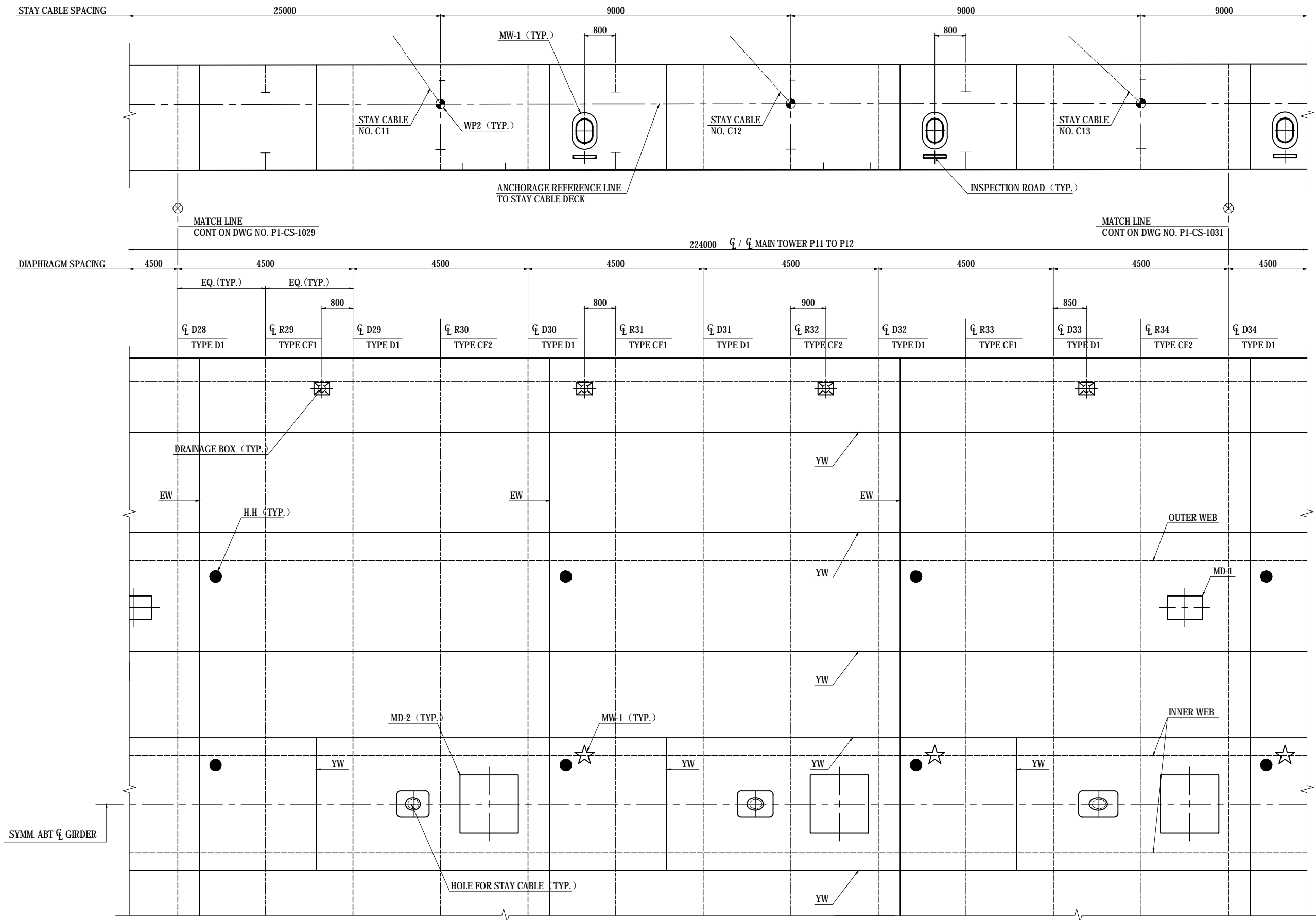
| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br>BAR ARRANGEMENT OF MAIN GIRDER (4) | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1028 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

# BAR ARRANGEMENT OF MAIN GIRDER (5) S=1:100



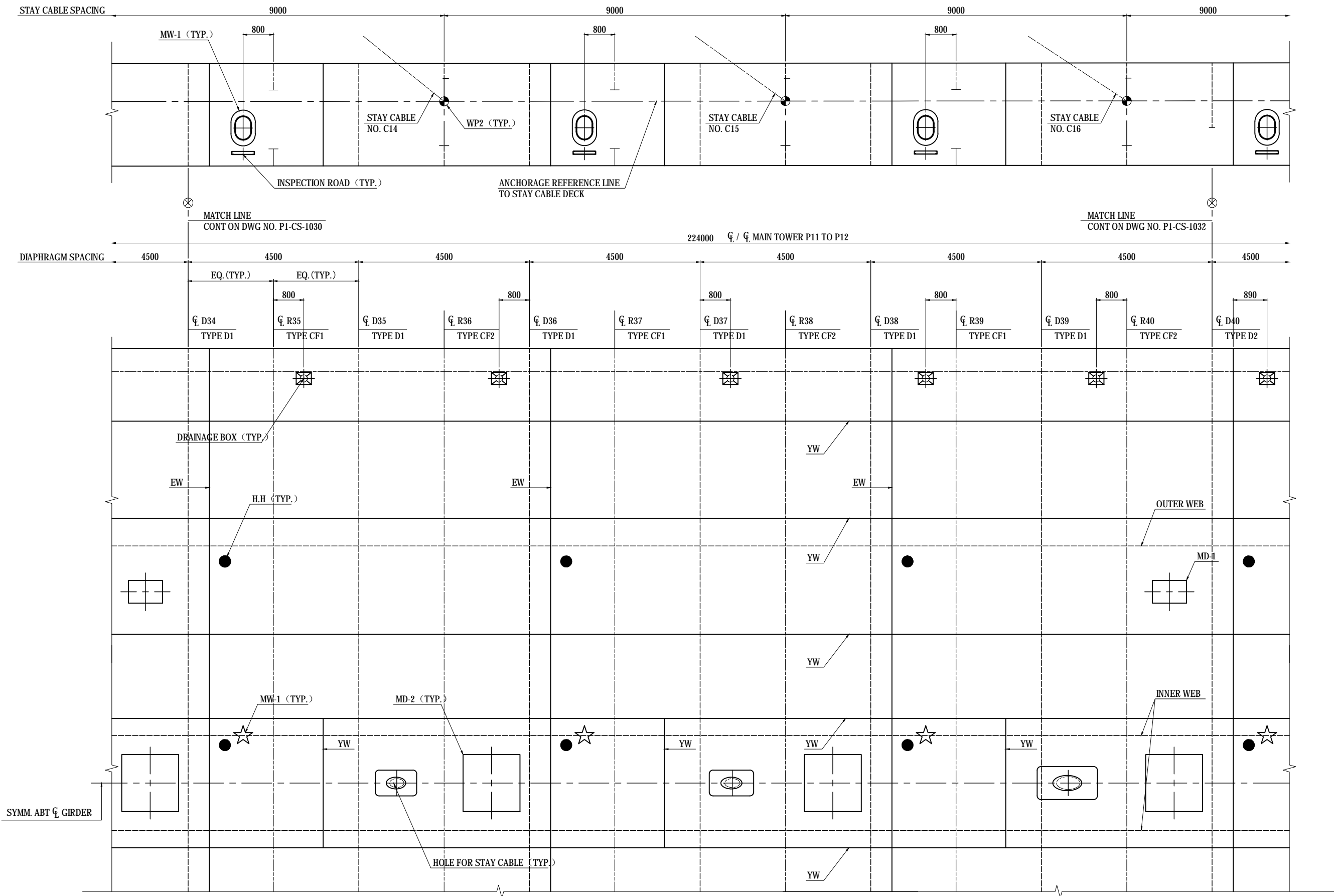
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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<br><h2 style="text-align: center;">BAR ARRANGEMENT OF MAIN GIRDER (5)</h2> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1029 |
|---|--|---|--|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|---------------------------------------|
|   | NAME   | SIGNATURE   | DATE   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |
| PREPARED BY   | T.TOMODA   |   | 27. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |
| CHECKED BY  | T. HAYAKAWA  |   | 28. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |
| APPROVED BY   | Y. SANO  |   | 29. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |

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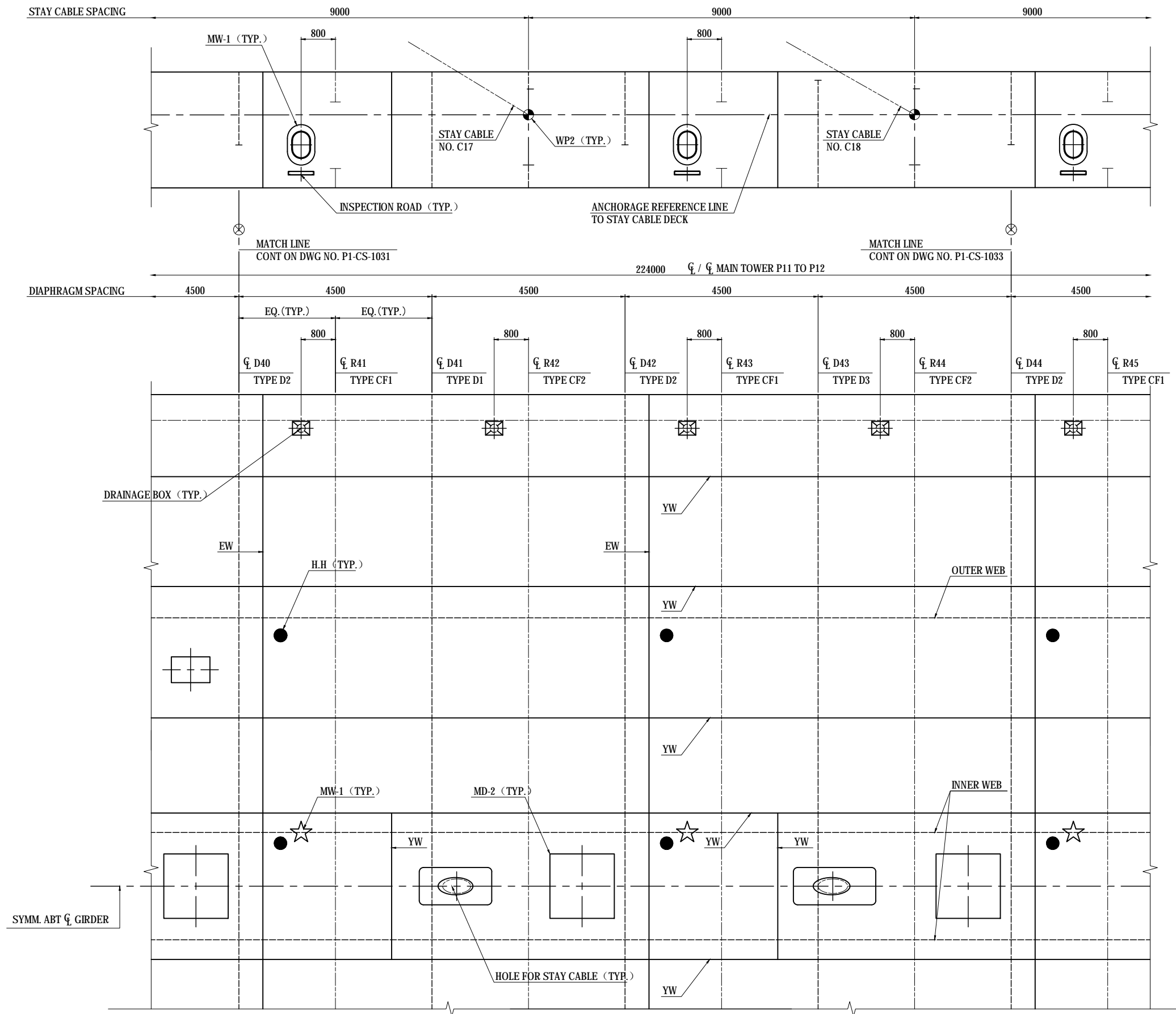
| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br>BAR ARRANGEMENT OF MAIN GIRDER (6) | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1030 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

# BAR ARRANGEMENT OF MAIN GIRDER (7) S=1:100



| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br>BAR ARRANGEMENT OF MAIN GIRDER (7) | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1031 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
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| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

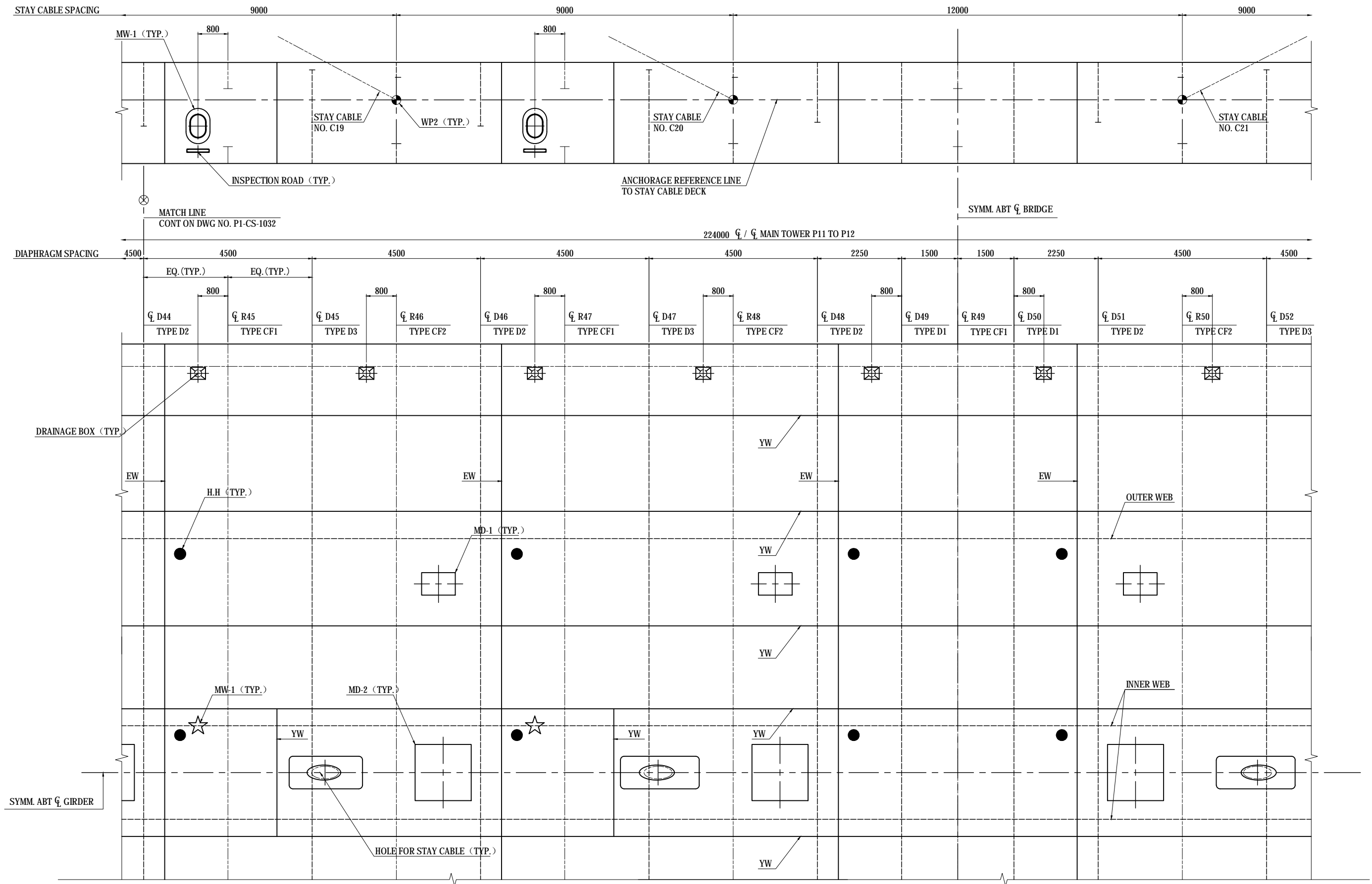
# BAR ARRANGEMENT OF MAIN GIRDER (8) S=1:100



| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br>BAR ARRANGEMENT OF MAIN GIRDER (8) | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1032 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |



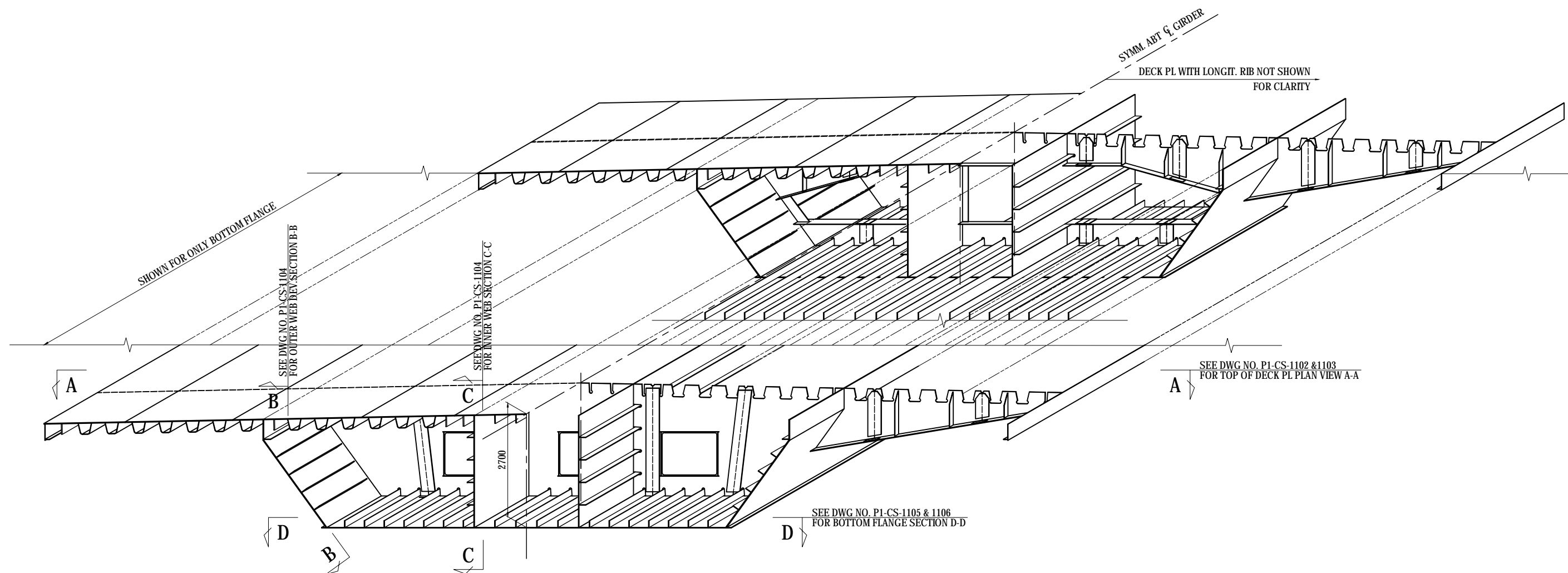
# BAR ARRANGEMENT OF MAIN GIRDER (9) S=1:100



| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><h2 style="text-align: center;">BAR ARRANGEMENT OF MAIN GIRDER (9)</h2> | <small>PACKAGE</small><br>1<br><small>DWG No.</small><br>P1-CS-1033 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|---|---|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |   |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |   |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |   |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |   |

# MAIN GIRDER LAYOUT AT ERECTION SEGMENT

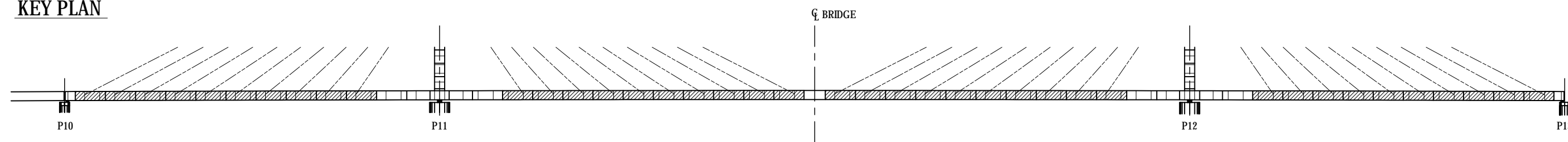
TYPICAL SEGMENT N.T.S.



## NOTES:

- 1 - EACH DWG NO. P1-CS-1102 TO 1106  
SEE DWG NO. P1-CS-1403 TO 1502  
FOR STAY CABLE ANCHORAGE DETAILS.

## KEY PLAN

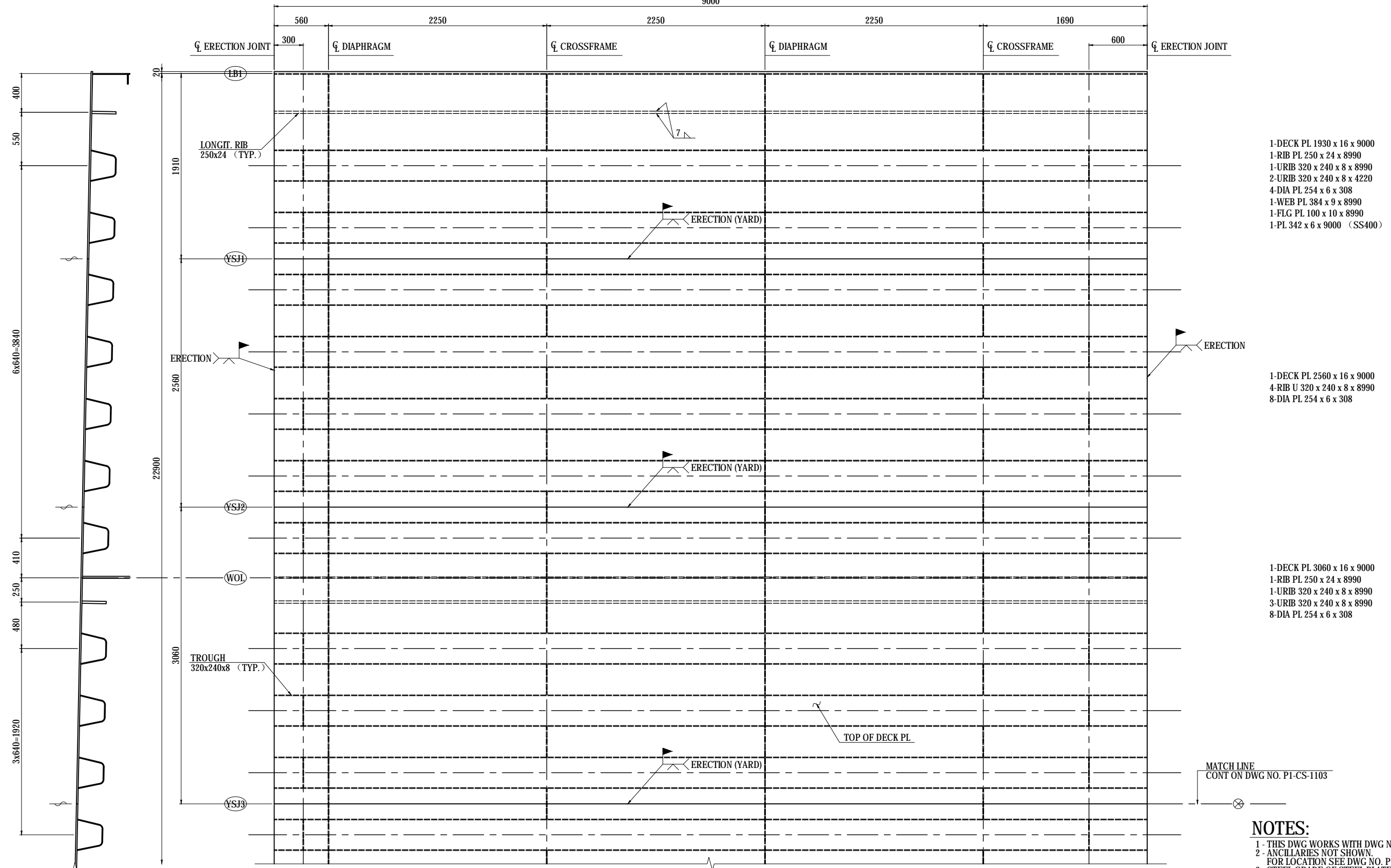


| PROJECT NAME  | FINANCED BY                               | COUNTERPART  | JICA STUDY TEAM   | NAME                                     | SIGNATURE                          | DATE     | DRAWING TITLE                                | PACKAGE   |
|---|---|--|---|--|------------------------------------|----------|--|---|
| DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | JAPAN INTERNATIONAL<br>COOPERATION AGENCY | REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | PREPARED BY<br>CHECKED BY<br>APPROVED BY | T.TOMODA<br>T. HAYAKAWA<br>Y. SANO | <br><br> | 27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | MAIN GIRDER LAYOUT AT ERECTION SEGMENT<br>( TYPICAL SEGMENT ) |
|   |   |  |   |  |                                    |          |  | 1<br>DWG No.<br>P1-CS-1101                                    |

# MAIN GIRDER DETAIL FOR DECK PL (1) S=1:40

## TOP OF DECK PL PLAN VIEW A-A FOR BACK SPAN SECTION (FOR MAIN SPAN SECTION)

TO CL MAIN TOWER



- 1-DECK PL 1930 x 16 x 9000
- 1-RIB PL 250 x 24 x 8990
- 1-URIB 320 x 240 x 8 x 8990
- 2-DIA PL 320 x 240 x 8 x 4220
- 4-DIA PL 254 x 6 x 308
- 1-WEB PL 384 x 9 x 8990
- 1-FLG PL 100 x 10 x 8990
- 1-PL 342 x 6 x 9000 (SS400)

- 1-DECK PL 2560 x 16 x 9000
- 4-RIB U 320 x 240 x 8 x 8990
- 8-DIA PL 254 x 6 x 308

- 1-DECK PL 3060 x 16 x 9000
- 1-RIB PL 250 x 24 x 8990
- 1-URIB 320 x 240 x 8 x 8990
- 3-URIB 320 x 240 x 8 x 8990
- 8-DIA PL 254 x 6 x 308

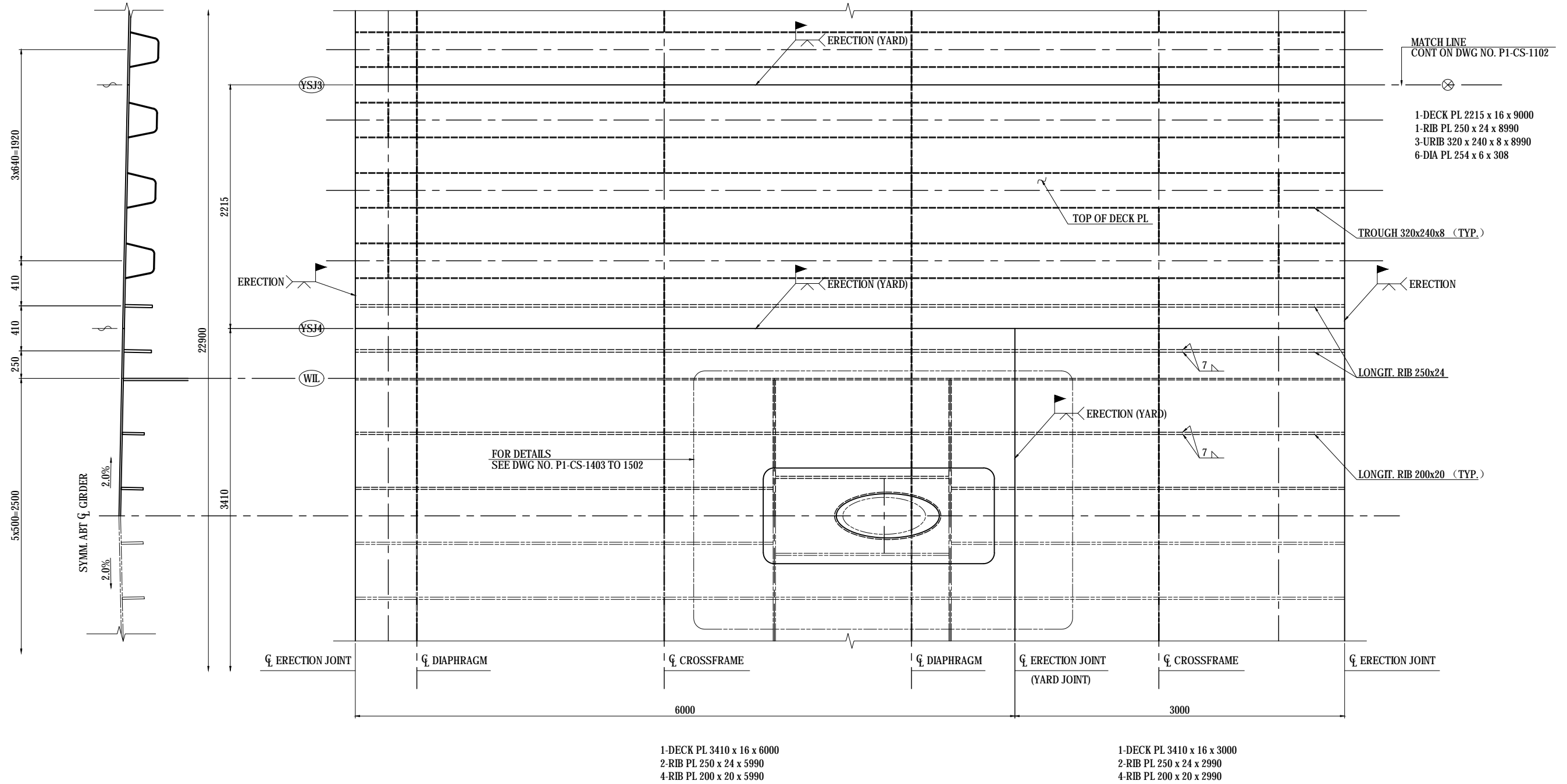
- NOTES:**
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1101.
  - 2 - ANCILLARIES NOT SHOWN.  
FOR LOCATION SEE DWG NO. P1-CS-1020 TO 1028.
  - 3 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |                                       |              |
|---|--|---|--|-------------|-------------|------|--|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER<br/>DETAIL FOR DECK PL (1)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1102 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |  |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |  |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |  |                                       | 29. Nov.2017 |

# MAIN GIRDER DETAIL FOR DECK PL (2) S=1:40

TOP OF DECK PL  
PLAN VIEW A-A  
FOR BACK SPAN SECTION (FOR MAIN SPAN SECTION)

TO CL MAIN TOWER



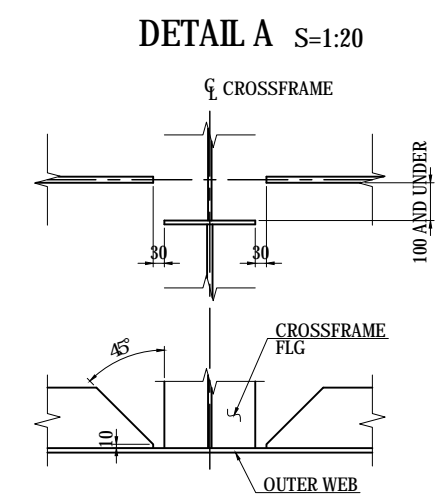
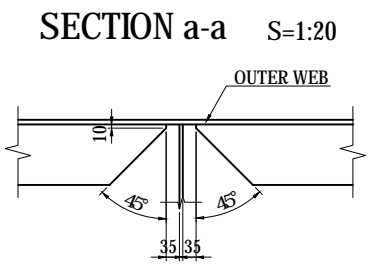
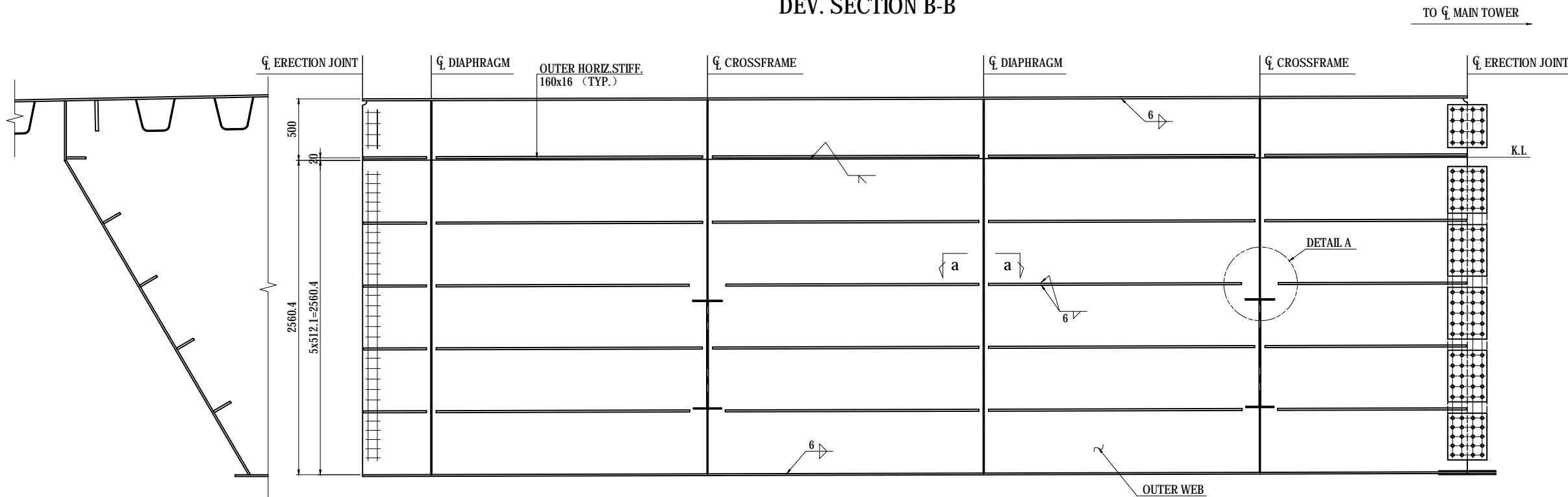
**NOTES:**

- THIS DWG WORKS WITH DWG NO. P1-CS-1101.
- ANCILLARIES NOT SHOWN.
- FOR LOCATION SEE DWG NO. P1-CS-1020 TO 1028.
- STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER<br/>         DETAIL FOR DECK PL (2)</b> | 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-1103 |

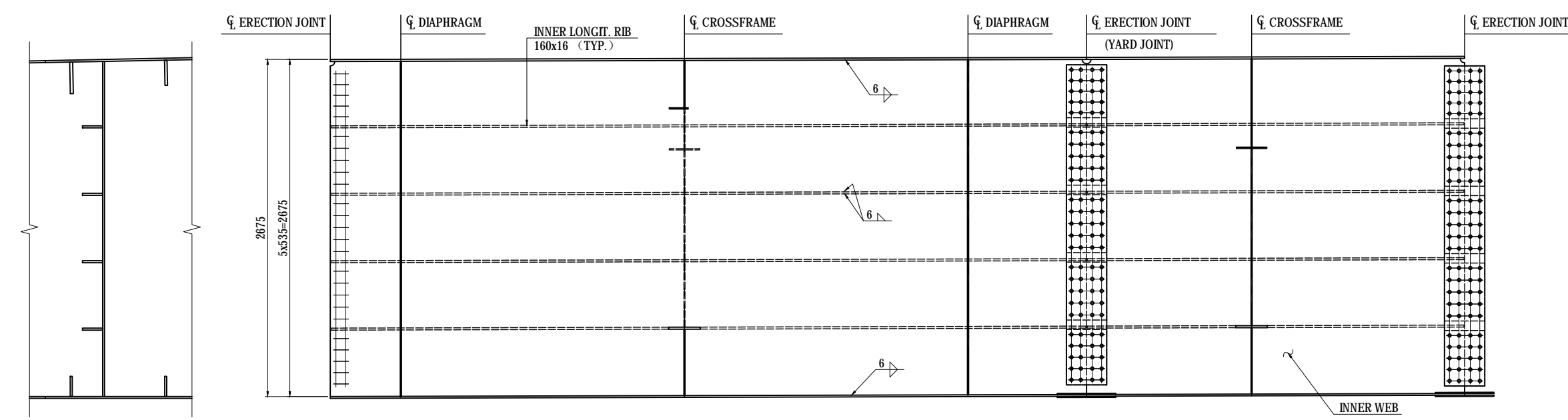
# MAIN GIRDER DETAIL FOR OUTER & INNER WEB S=1:40

FOR BACK SPAN SECTION (FOR MAIN SPAN SECTION)  
 OUTER WEB  
 DEV. SECTION B-B



- 1-WEB PL 484 x 14 x 9000 (SM490YA)
- 1-WEB PL 2560 x 14 x 9000 (SM490YA)
- 5-HSTIF PL 160 x 16 x 516 (SM490YA)
- 6-HSTIF PL 160 x 16 x 2171 (SM490YA)
- 3-HSTIF PL 160 x 16 x 2061 (SM490YA)
- 3-HSTIF PL 160 x 16 x 2066 (SM490YA)
- 2-HSTIF PL 160 x 16 x 1646 (SM490YA)
- 1-HSTIF PL 160 x 16 x 1535 (SM490YA)
- 1-HSTIF PL 160 x 16 x 1540 (SM490YA)
- 3-HSTIF PL 160 x 16 x 2169 (SM490YA)
- 1-HSTIF PL 160 x 16 x 1643 (SM490YA)

## INNER WEB SECTION C-C



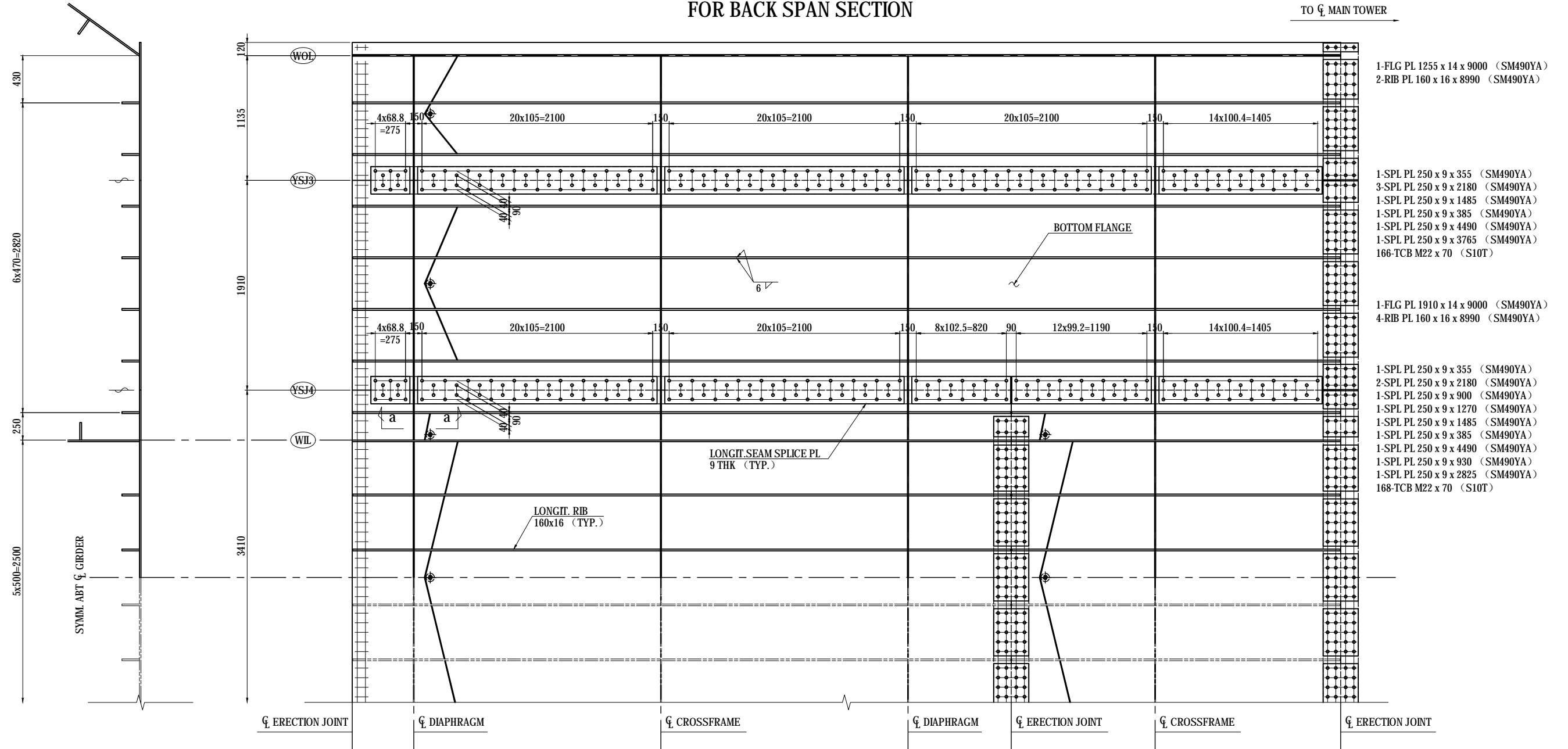
- 1-WEB PL 2659 x 14 x 6000 (SM490YA)
- 3-RIB PL 160 x 16 x 5990 (SM490YA)
- 1-RIB PL 160 x 16 x 2680 (SM490YA)
- 1-RIB PL 160 x 16 x 3060 (SM490YA)
- 1-WEB PL 2659 x 14 x 3000 (SM490YA)
- 3-RIB PL 160 x 16 x 2990 (SM490YA)
- 1-RIB PL 160 x 16 x 1180 (SM490YA)
- 1-RIB PL 160 x 16 x 1560 (SM490YA)

**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1101.  
 2 - ANCILLARIES NOT SHOWN.  
 FOR LOCATION SEE DWG NO. P1-CS-1020 TO 1028.

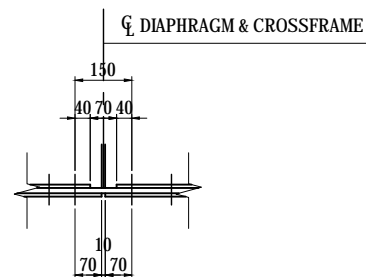
|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER<br>DETAIL FOR OUTER & INNER WEB | 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-1104 |

# MAIN GIRDER DETAIL FOR BOTTOM FLANGE (1) S=1:40

## BOTTOM FLANGE SECTION D-D FOR BACK SPAN SECTION



### SECTION a-a S=1:20



1-FLG PL 3410 x 14 x 6000 (SM490YA)  
6-RIB PL 160 x 16 x 5990 (SM490YA)

1-FLG PL 3410 x 14 x 3000 (SM490YA)  
6-RIB PL 160 x 16 x 2990 (SM490YA)

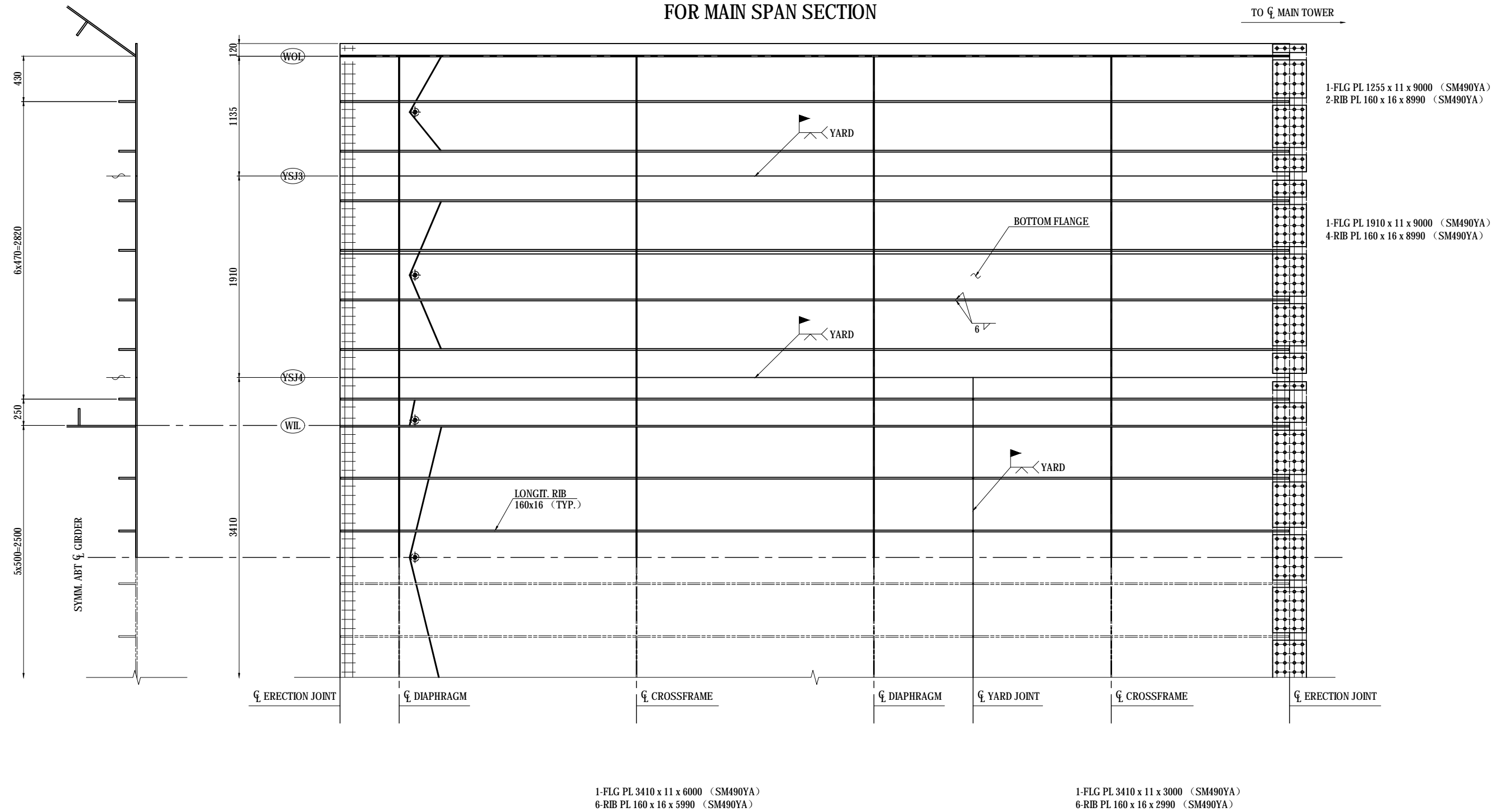
#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1101.
- 2 - SET DRAINAGE IN LOWER LONGITUDINAL GRADIENT SIDE.

|   |   |   |  |             |             |       |  |              |            |
|---|---|---|--|-------------|-------------|-------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>jica JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE<br><b>MAIN GIRDER<br/>DETAIL FOR BOTTOM FLANGE (1)</b> | 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-1105 |

# MAIN GIRDER DETAIL FOR BOTTOM FLANGE (2) S=1:40

## BOTTOM FLANGE SECTION D-D FOR MAIN SPAN SECTION

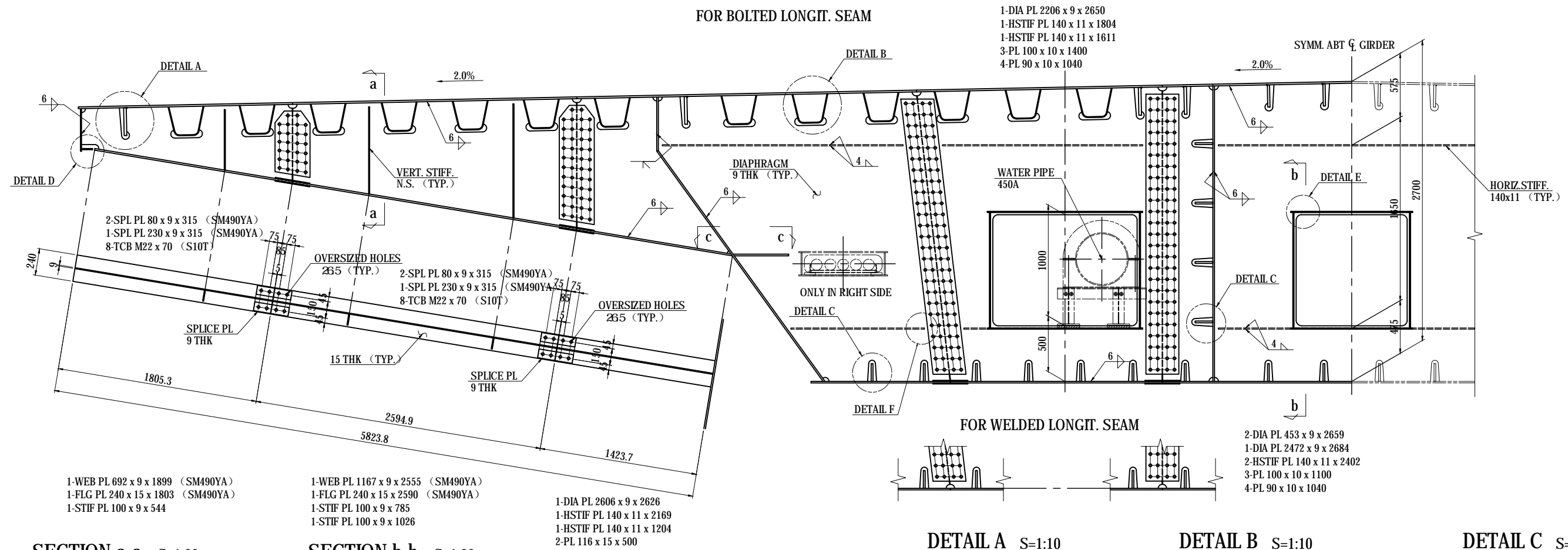


**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1101  
 2 - SET DRAINAGE IN LOWER LONGITUDINAL GRADIENT SIDE.

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER<br>DETAIL FOR BOTTOM FLANGE (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-1106 |

# MAIN GIRDER DETAIL FOR DIAPHRAGM S=1:40

## DIAPHRAGM SECTION TYPE D1 FOR BOLTED LONGIT. SEAM



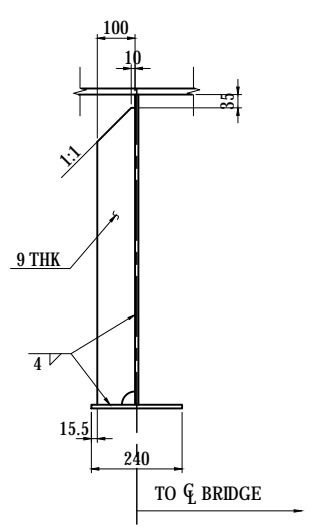
1-WEB PL 692 x 9 x 1899 (SM490YA)  
1-FLG PL 240 x 15 x 1803 (SM490YA)  
1-STIF PL 100 x 9 x 544

1-WEB PL 1167 x 9 x 2555 (SM490YA)  
1-FLG PL 240 x 15 x 2590 (SM490YA)  
1-STIF PL 100 x 9 x 785  
1-STIF PL 100 x 9 x 1026

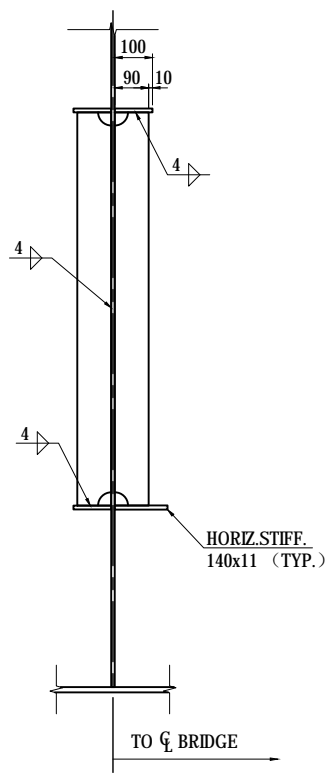
1-DIA PL 2606 x 9 x 2626  
1-HSTIF PL 140 x 11 x 2169  
1-HSTIF PL 140 x 11 x 1204  
2-PL 116 x 15 x 500

2-DIA PL 453 x 9 x 2659  
1-DIA PL 2472 x 9 x 2684  
2-HSTIF PL 140 x 11 x 2402  
3-PL 100 x 10 x 1100  
4-PL 90 x 10 x 1040

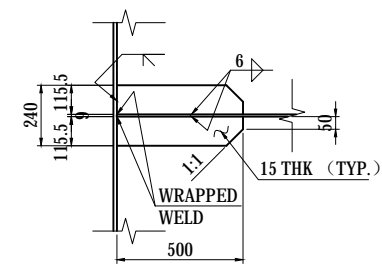
**SECTION a-a S=1:20**  
BRKT VERT. STIFF. (TYP.)



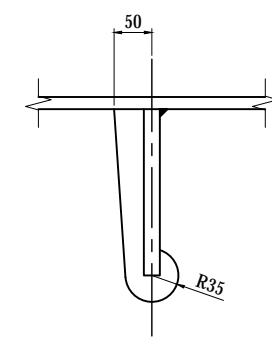
**SECTION b-b S=1:20**



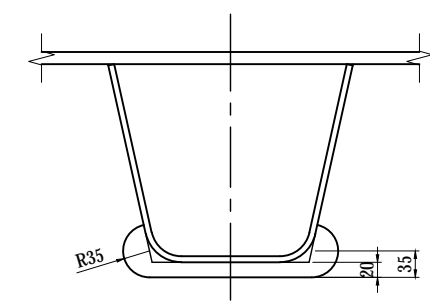
**SECTION c-c S=1:30**



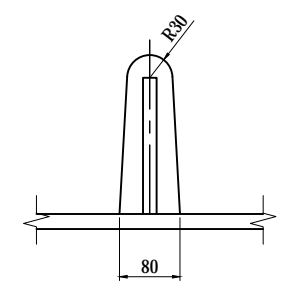
**DETAIL A S=1:10**



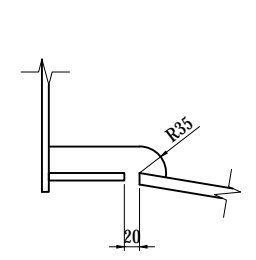
**DETAIL B S=1:10**



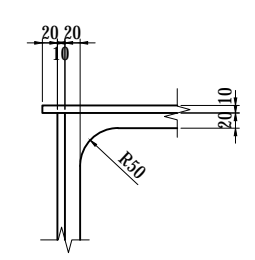
**DETAIL C S=1:10**



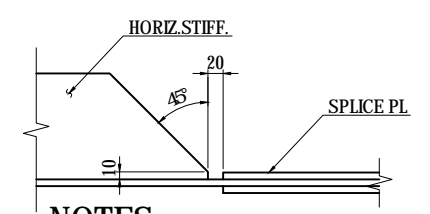
**DETAIL D S=1:10**



**DETAIL E S=1:10**



**DETAIL F S=1:10**



**NOTES:**  
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1101.  
2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |       |  |              |            |
|---|--|---|--|-------------|-------------|-------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE<br>MAIN GIRDER<br>DETAIL FOR DIAPHRAGM | 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-1107 |

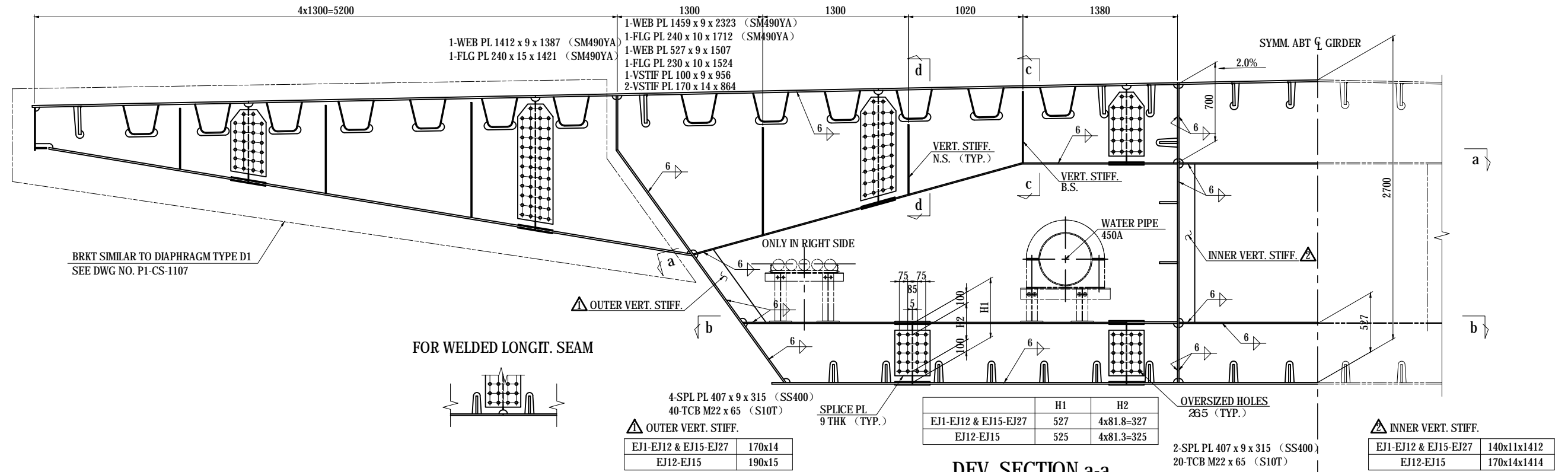


# MAIN GIRDER DETAIL FOR CROSSFRAME

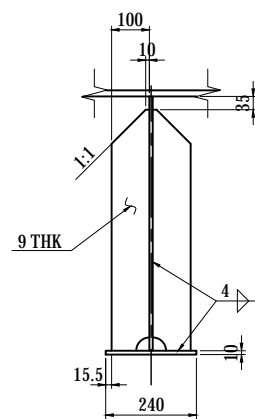
S=1:40

## CROSSFRAME SECTION TYPE CF1 FOR BOLTED LONGIT. SEAM

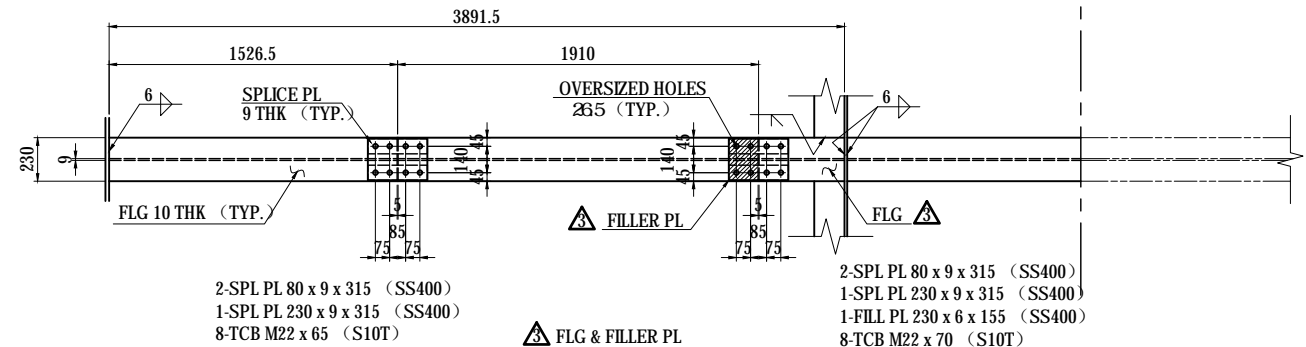
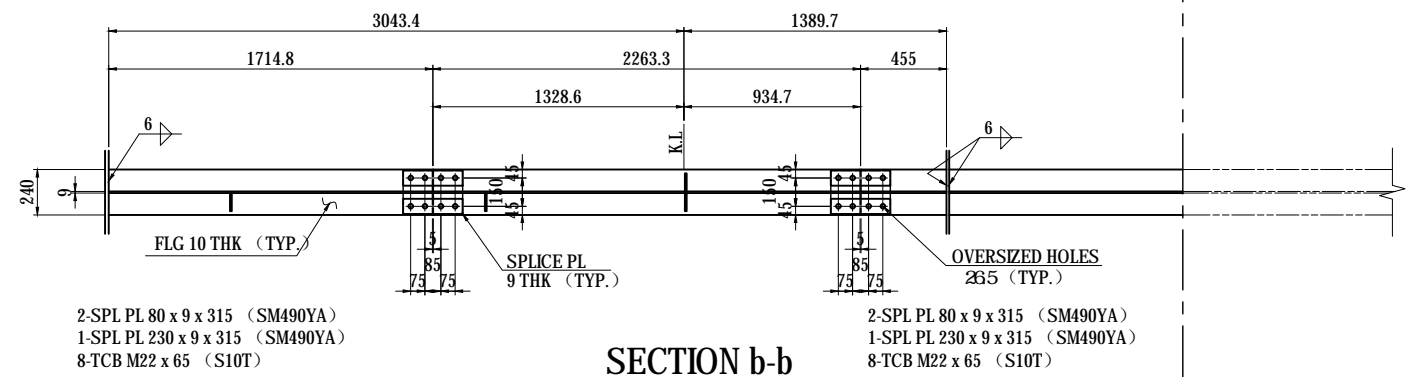
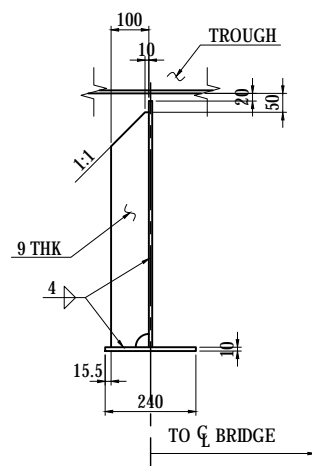
- 1-WEB PL 1046 x 9 x 2210 (SM490YA)
- 1-FLG PL 240 x 10 x 2258 (SM490YA)
- 1-WEB PL 527 x 9 x 1905
- 1-FLG PL 230 x 10 x 1905
- 1-VSTIF PL 100 x 9 x 621
- 2-VSTIF PL 100 x 9 x 637
- 2-WEB PL 700 x 9 x 453 (SM490YA)
- 2-FLG PL 240 x 10 x 453 (SM490YA)
- 2-WEB PL 527 x 9 x 453
- 2-FLG PL 230 x 16 x 453 (SM490YA)
- 1-WEB PL 725 x 9 x 2472 (SM490YA)
- 1-FLG PL 240 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230 x 10 x 2472



SECTION c-c S=1:20  
VERT. STIFF. B.S.



SECTION d-d S=1:20  
VERT. STIFF. N.S. (TYP.)

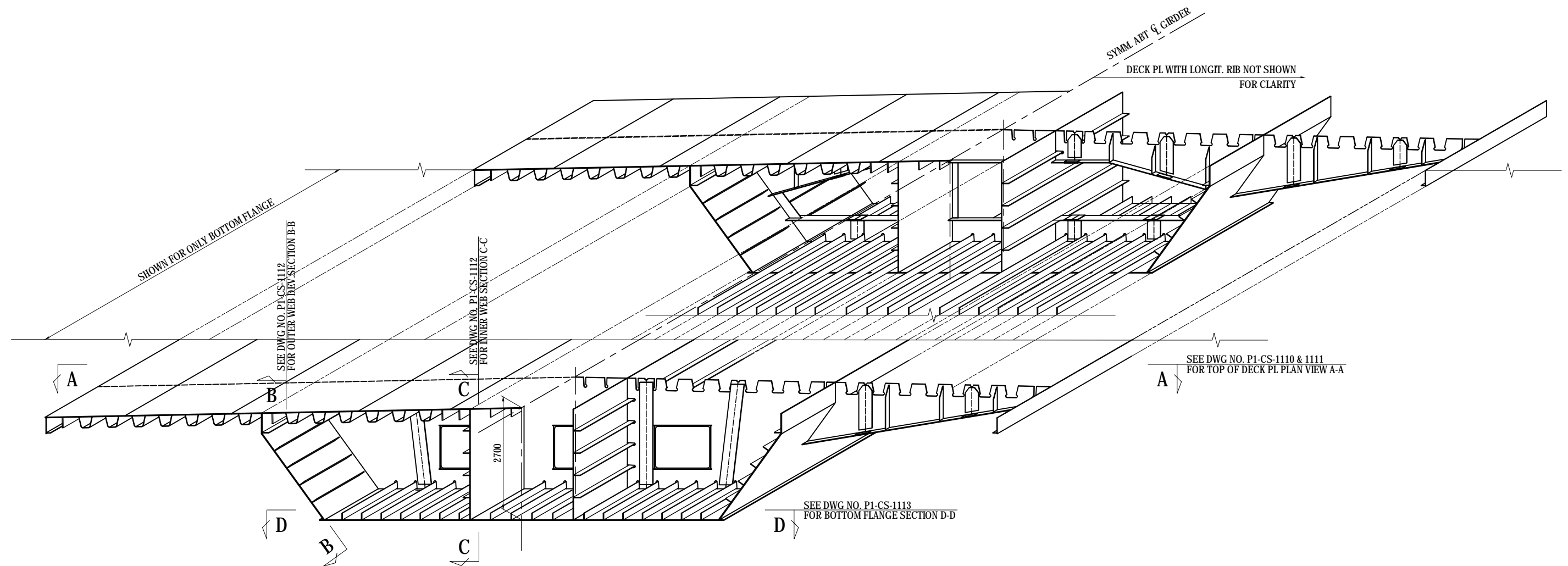


NOTES:  
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1101.  
2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |                                       |              |
|---|--|---|--|-------------|-------------|------|---|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER<br>DETAIL FOR CROSSFRAME | PACKAGE<br>1<br>DWG No.<br>P1-CS-1108 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |   |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |   |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |   |                                       | 29. Nov.2017 |

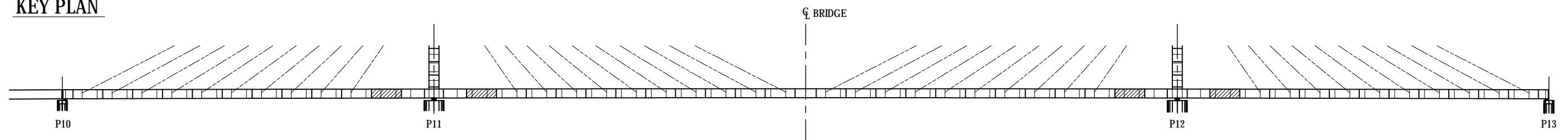
# MAIN GIRDER LAYOUT AT ERECTION SEGMENT

SEGMENT NO.12,16,38 & 42 N.T.S.



**NOTES:**  
 1 - DETAIL FOR DIAPHRAGM & CROSS FRAME  
 SEE DWG NO. P1-CS-1107 & 1108.

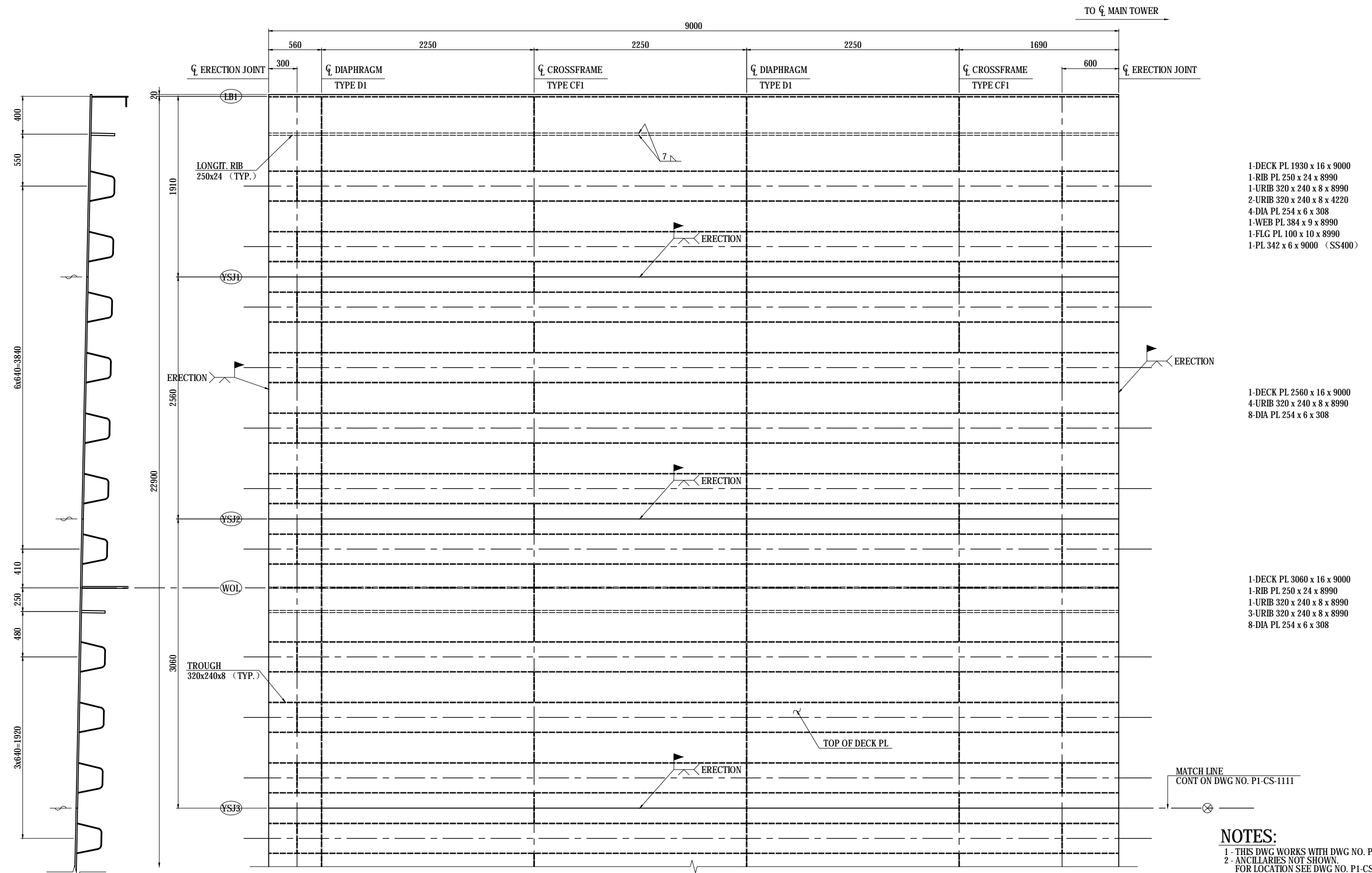
## KEY PLAN



|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER LAYOUT AT ERECTION SEGMENT<br>(SEGMENT NO.12,16,38 & 42 ) | 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-1109 |

# MAIN GIRDER DETAIL FOR DECK PL (1) S=1:40

## TOP OF DECK PL PLAN VIEW A-A



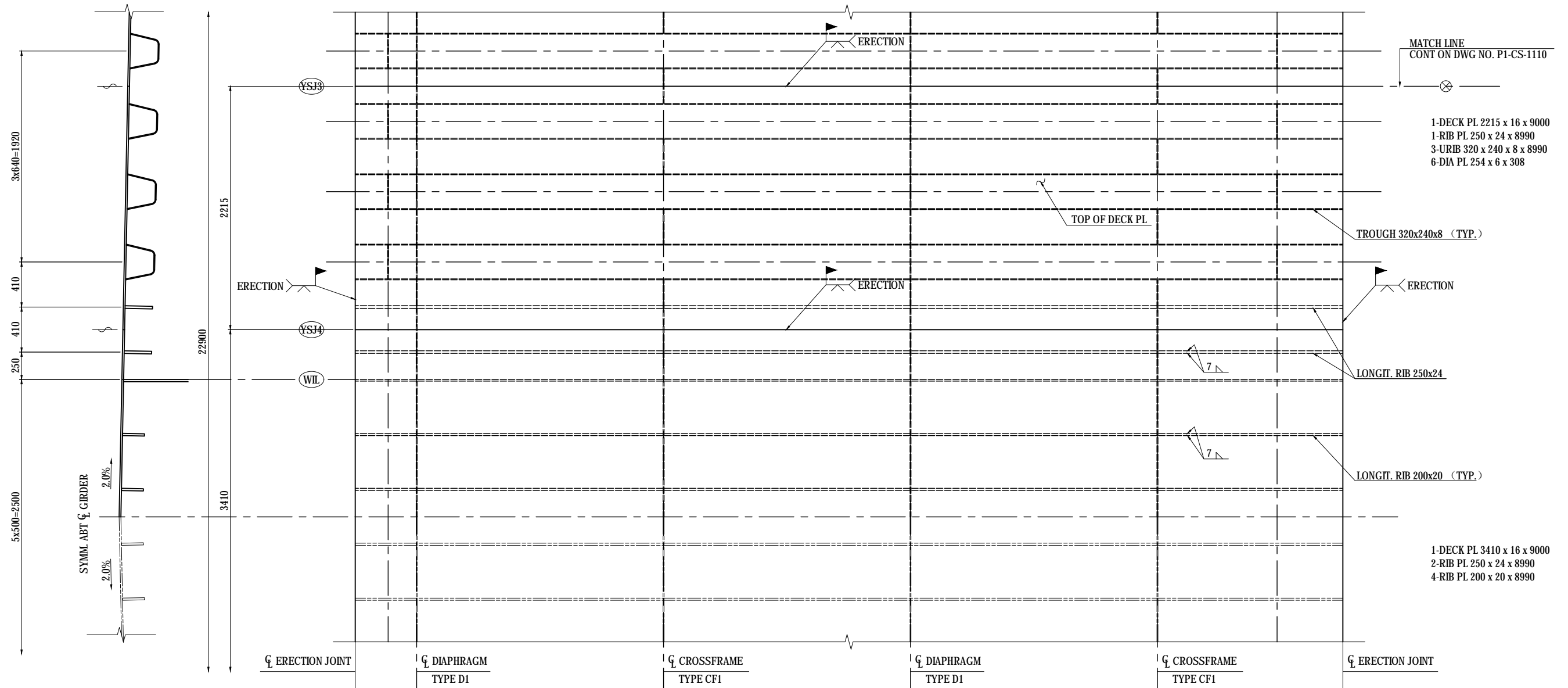
- NOTES:**
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1109.
  - 2 - ANCILLARIES NOT SHOWN.  
FOR LOCATION SEE DWG NO. P1-CS-1020 TO 1028.
  - 3 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE - SM400A

|   |   |  |   |             |           |               |                                       |            |
|---|---|--|---|-------------|-----------|---------------|---------------------------------------|------------|
| 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 | MAIN GIRDER<br>DETAIL FOR DECK PL (1) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov. 2017 |                                       | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov. 2017 |                                       | P1-CS-1110 |

# MAIN GIRDER DETAIL FOR DECK PL (2) S=1:40

## TOP OF DECK PL PLAN VIEW A-A

TO CL MAIN TOWER



- MATCH LINE  
CONT ON DWG NO. P1-CS-1110
- 1-DECK PL 2215 x 16 x 9000
  - 1-RIB PL 250 x 24 x 8990
  - 3-URIB 320 x 240 x 8 x 8990
  - 6-DIA PL 254 x 6 x 308

TROUGH 320x240x8 (TYP.)

LONGIT. RIB 250x24

LONGIT. RIB 200x20 (TYP.)

- 1-DECK PL 3410 x 16 x 9000
- 2-RIB PL 250 x 24 x 8990
- 4-RIB PL 200 x 20 x 8990

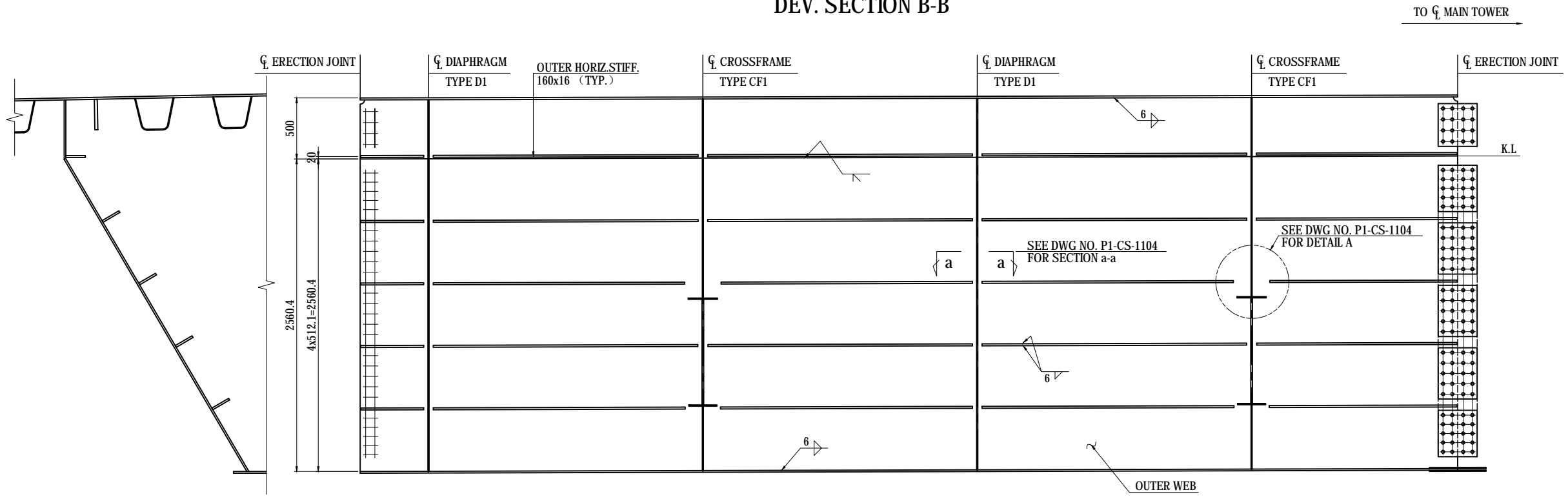
- NOTES:**
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1109.
  - 2 - ANCILLARIES NOT SHOWN.  
FOR LOCATION SEE DWG NO. P1-CS-1020 TO 1028.
  - 3 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER<br>DETAIL FOR DECK PL (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-1111 |

# MAIN GIRDER DETAIL FOR OUTER & INNER WEB

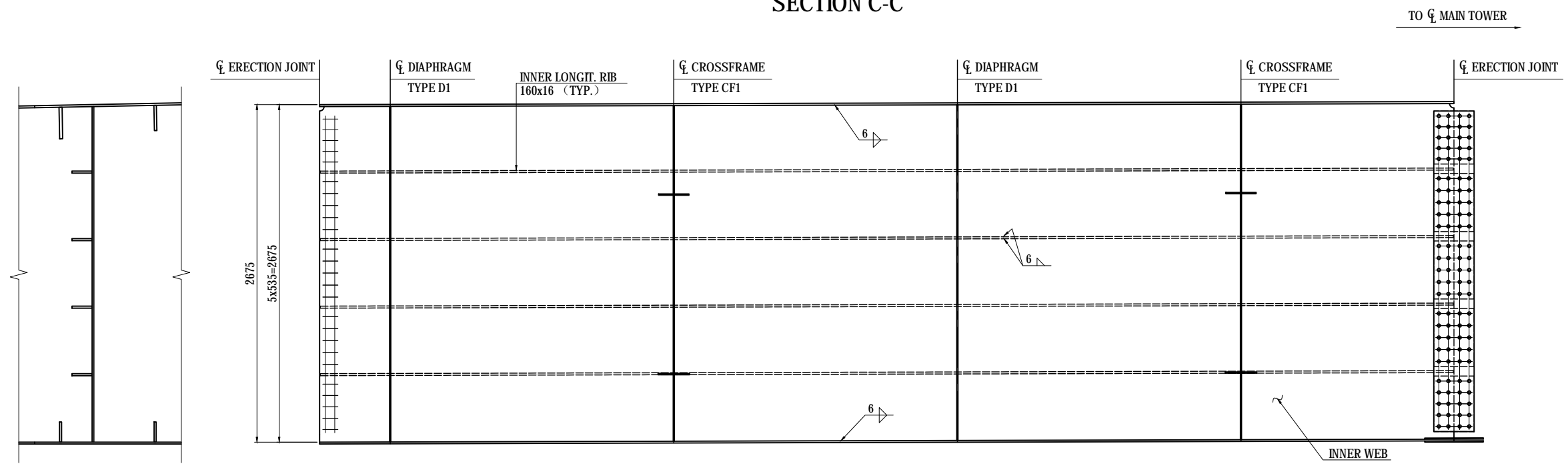
S=1:40

## OUTER WEB DEV. SECTION B-B



- 1-WEB PL 484 x 14 x 9000 (SM490YA)
- 1-WEB PL 2560 x 14 x 9000 (SM490YA)
- 5-HSTIF PL 160 x 16 x 516 (SM490YA)
- 9-HSTIF PL 160 x 16 x 2171 (SM490YA)
- 3-HSTIF PL 160 x 16 x 2061 (SM490YA)
- 3-HSTIF PL 160 x 16 x 2066 (SM490YA)
- 3-HSTIF PL 160 x 16 x 1646 (SM490YA)
- 1-HSTIF PL 160 x 16 x 1535 (SM490YA)
- 1-HSTIF PL 160 x 16 x 1540 (SM490YA)

## INNER WEB SECTION C-C



- 1-WEB PL 2659 x 14 x 9000 (SM490YA)
- 3-RIB PL 160 x 16 x 8990 (SM490YA)
- 1-RIB PL 160 x 16 x 2680 (SM490YA)
- 1-RIB PL 160 x 16 x 4250 (SM490YA)
- 1-RIB PL 160 x 16 x 1560 (SM490YA)

### NOTES:

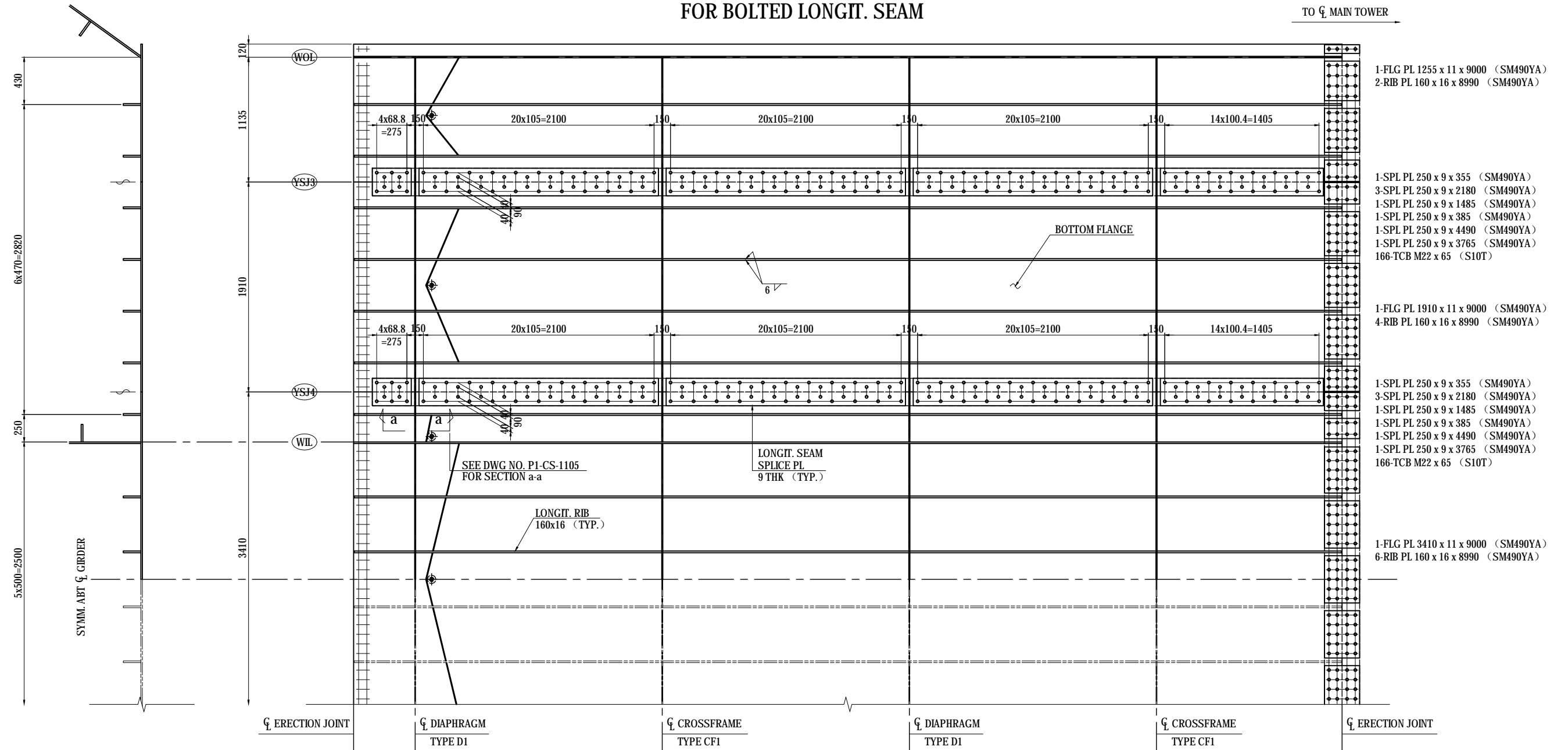
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1109.
- 2 - ANCILLARIES NOT SHOWN.  
FOR LOCATION SEE DWG NO. P1-CS-1020 TO 1028.

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER<br>DETAIL FOR OUTER & INNER WEB | 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-1112 |

# MAIN GIRDER DETAIL FOR BOTTOM FLANGE S=1:40

## BOTTOM FLANGE SECTION D-D FOR BOLTED LONGIT. SEAM

TO CL MAIN TOWER

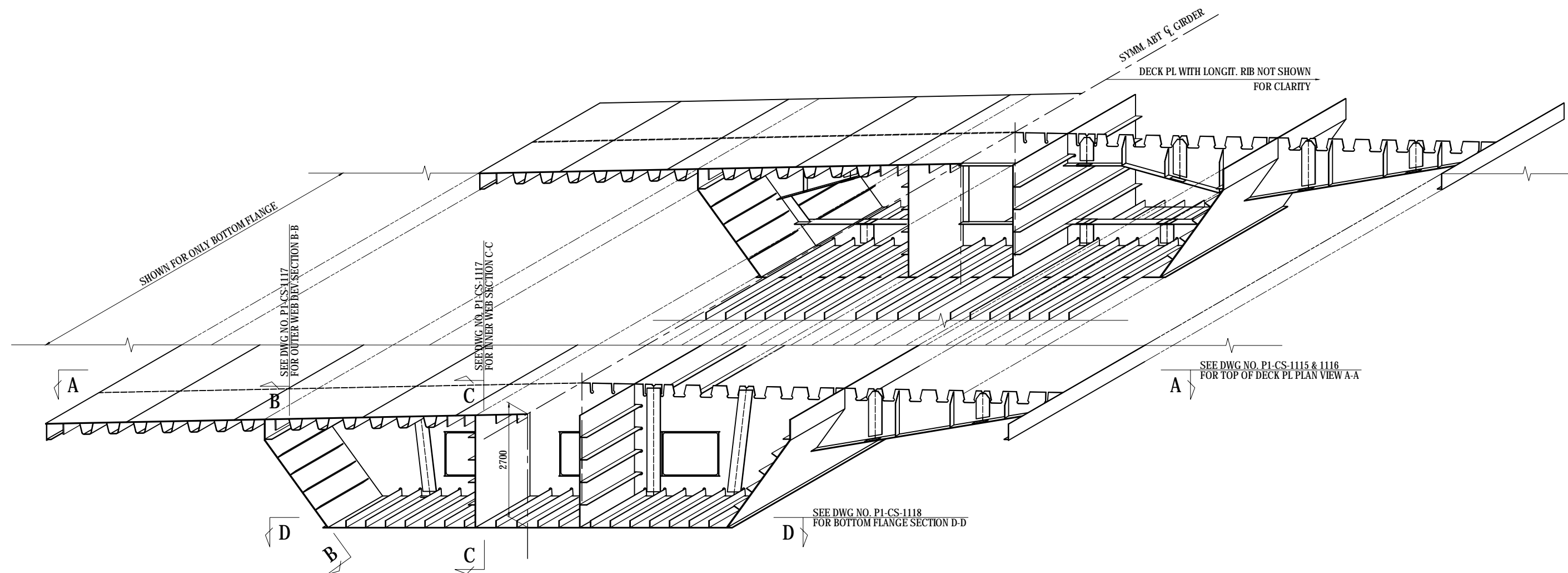


**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1109.  
 2 - SET DRAINAGE IN LOWER LONGITUDINAL GRADIENT SIDE.

|   |  |   |  |             |             |       |  |              |            |
|---|--|---|--|-------------|-------------|-------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE<br>MAIN GIRDER<br>DETAIL FOR BOTTOM FLANGE | 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-1113 |

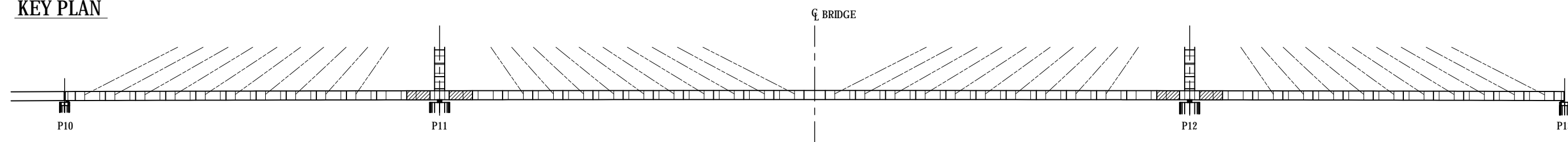
# MAIN GIRDER LAYOUT AT ERECTION SEGMENT

SEGMENT NO.13,15,39 & 41 N.T.S.



**NOTES:**  
 1 - DETAIL FOR DIAPHRAGM & CROSSFRAME  
 SEE DWG. NO. P1-CS-1107 & 1108.

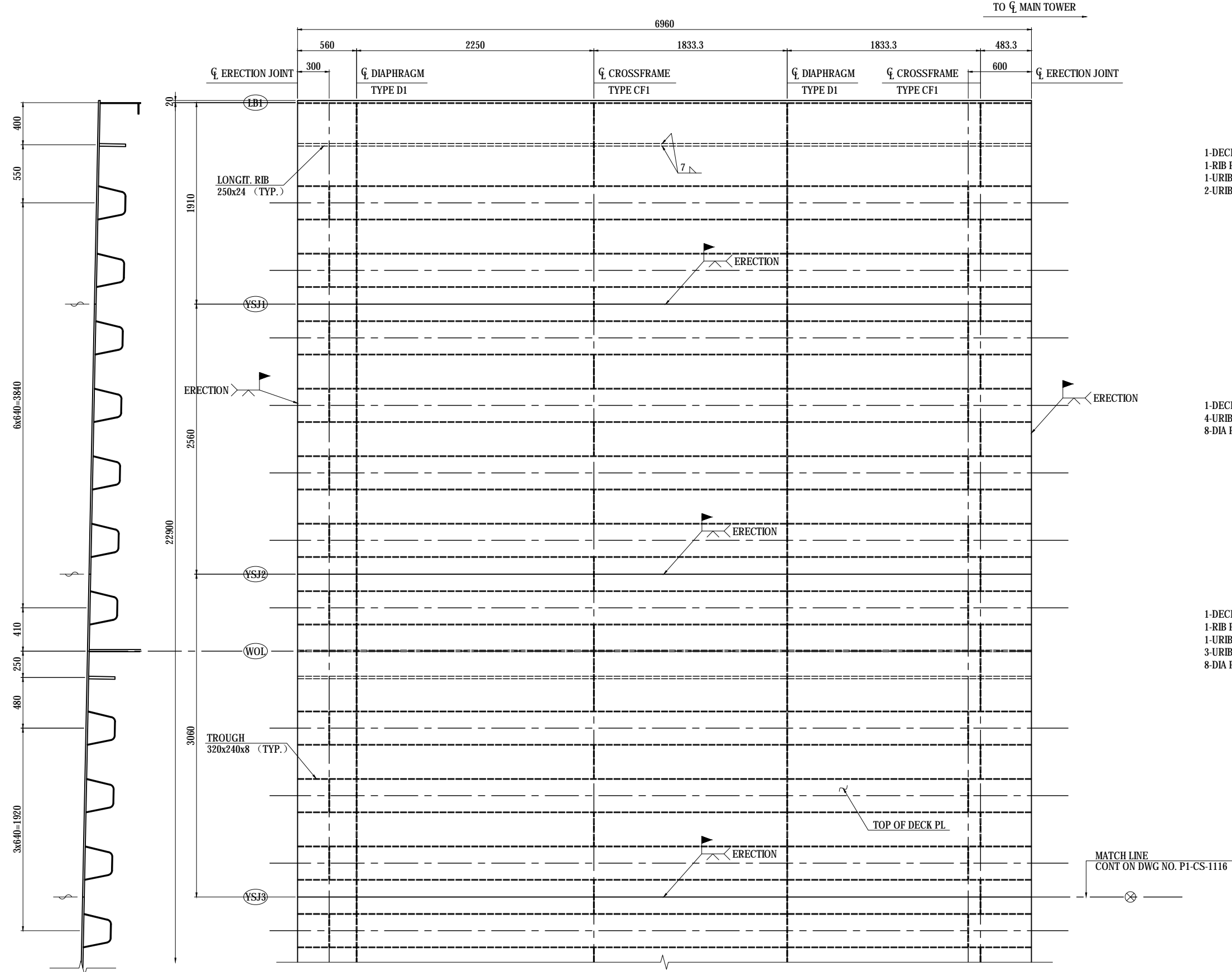
## KEY PLAN



|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER LAYOUT AT ERECTION SEGMENT<br>( SEGMENT NO.13,15,39 & 41 ) | 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-1114 |

# MAIN GIRDER DETAIL FOR DECK PL (1) S=1:40

## TOP OF DECK PL PLAN VIEW A-A



1-DECK PL 1930 x 16 x 6960  
1-RIB PL 250 x 24 x 6950  
1-URIB 320 x 240 x 8 x 6950  
2-URIB 320 x 240 x 8 x 3200

1-DECK PL 2560 x 16 x 6960  
4-URIB 320 x 240 x 8 x 6950  
8-DIA PL 254 x 6 x 308

1-DECK PL 3060 x 16 x 6960  
1-RIB PL 250 x 24 x 6950  
1-URIB 320 x 240 x 8 x 6950  
3-URIB 320 x 240 x 8 x 6960  
8-DIA PL 254 x 6 x 308

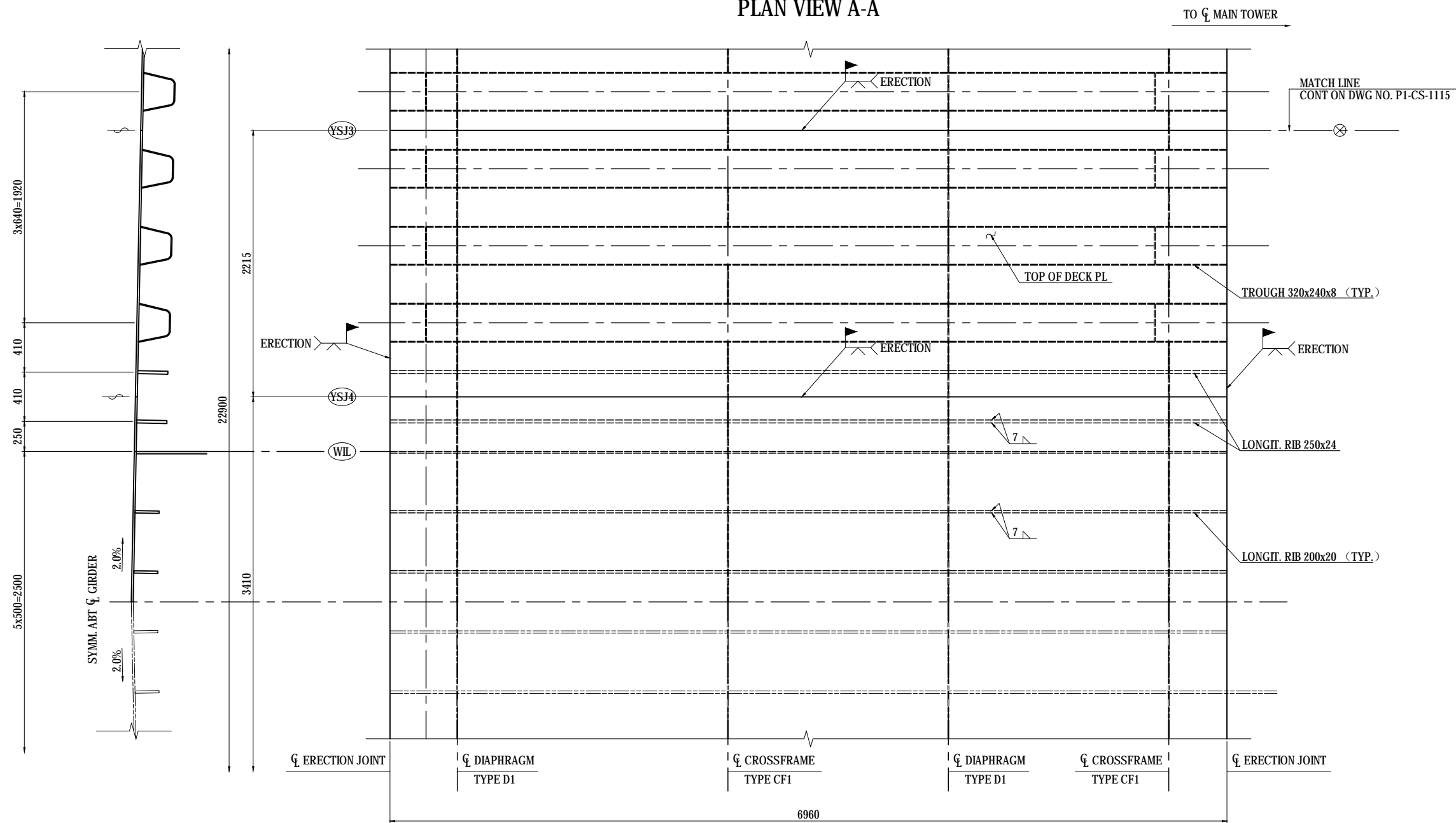
**NOTES:**  
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1114.  
2 - ANCILLARIES NOT SHOWN.  
FOR LOCATION SEE DWG NO. P1-CS-1020 TO 1028.  
3 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER<br>DETAIL FOR DECK PL (1) | 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-1115 |



# MAIN GIRDER DETAIL FOR DECK PL (2) S=1:40

## TOP OF DECK PL PLAN VIEW A-A



- 1-DECK PL 2215 x 16 x 6960
- 1-RIB PL 250 x 24 x 6950
- 3-URIB 320 x 240 x 8 x 6950
- 6-DIA PL 254 x 6 x 308

- 1-DECK PL 3410 x 16 x 6960
- 2-RIB PL 250 x 24 x 6950
- 4-RIB PL 200 x 20 x 6950

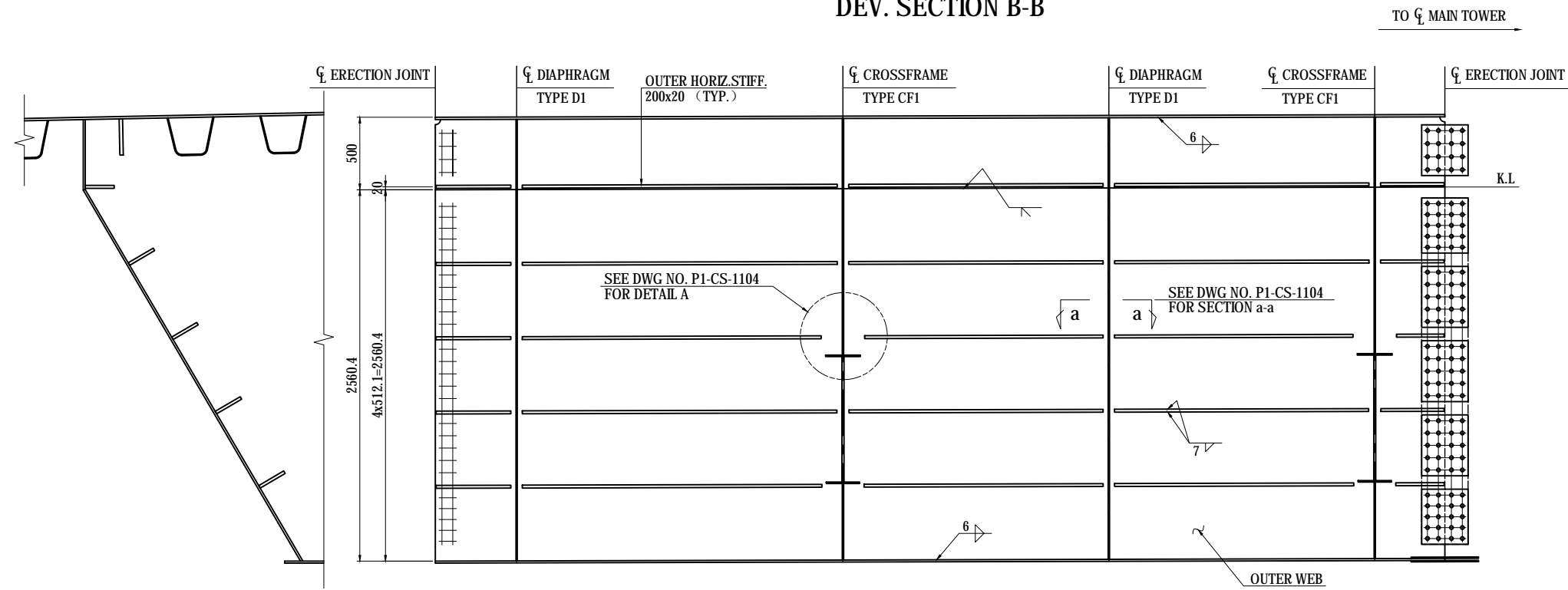
**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1114.  
 2 - ANCILLARIES NOT SHOWN.  
 FOR LOCATION SEE DWG NO. P1-CS-1020 TO 1028.  
 3 - STEEL GRADE OF STEEL PLATE  
 UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER<br>DETAIL FOR DECK PL (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-1116 |

# MAIN GIRDER DETAIL FOR OUTER & INNER WEB

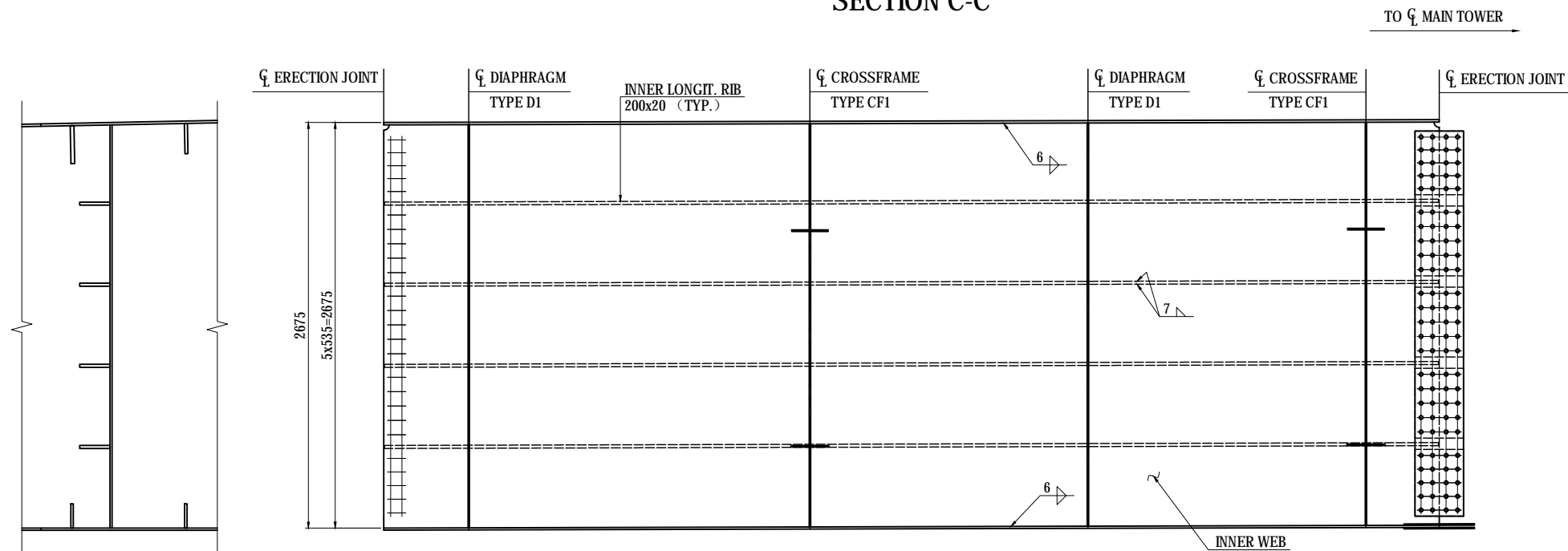
S=1:40

## OUTER WEB DEV. SECTION B-B



- 1-WEB PL 484 x 17 x 6960 (SM490YB)
- 1-WEB PL 2560 x 17 x 6960 (SM490YB)
- 5-HSTIF PL 200 x 20 x 516 (SM490YB)
- 3-HSTIF PL 200 x 20 x 2171 (SM490YB)
- 6-HSTIF PL 200 x 20 x 1754 (SM490YB)
- 1-HSTIF PL 200 x 20 x 2061 (SM490YB)
- 2-HSTIF PL 200 x 20 x 1644 (SM490YB)
- 1-HSTIF PL 200 x 20 x 2066 (SM490YB)
- 2-HSTIF PL 200 x 20 x 1649 (SM490YB)
- 3-HSTIF PL 200 x 20 x 439 (SM490YB)
- 1-HSTIF PL 200 x 20 x 328 (SM490YB)
- 1-HSTIF PL 200 x 20 x 333 (SM490YB)

## INNER WEB SECTION C-C



- 1-WEB PL 2659 x 18 x 6960 (SM490YB)
- 3-RIB PL 200 x 20 x 6950 (SM490YB)
- 1-RIB PL 200 x 20 x 2680 (SM490YB)
- 1-RIB PL 200 x 20 x 4260 (SM490YB)
- 1-RIB PL 200 x 20 x 1560 (SM490YB)

### NOTES:

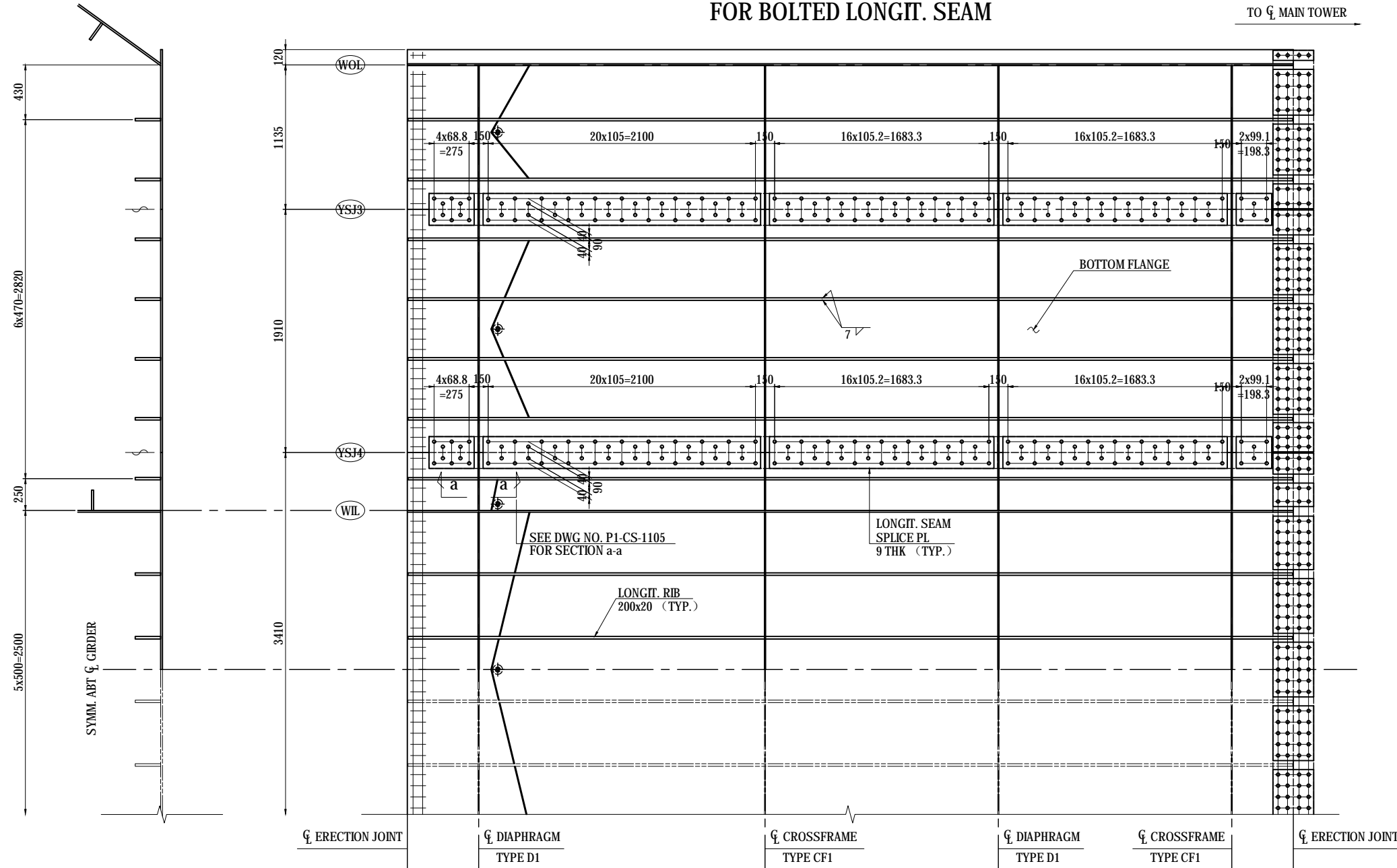
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1114.
- 2 - ANCILLARIES NOT SHOWN.  
FOR LOCATION SEE DWG NO. P1-CS-1020 TO 1028.

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER<br/>         DETAIL FOR OUTER &amp; INNER WEB</b> | 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-1117 |

# MAIN GIRDER DETAIL FOR BOTTOM FLANGE S=1:40

## BOTTOM FLANGE SECTION D-D FOR BOLTED LONGIT. SEAM

TO CL MAIN TOWER



1-FLG PL 1255 x 15 x 6960 (SM490YA)  
2-RIB PL 200 x 20 x 6950 (SM490YB)

1-SPL PL 250 x 9 x 355 (SM490YA)  
1-SPL PL 250 x 9 x 2180 (SM490YA)  
2-SPL PL 250 x 9 x 1763 (SM490YA)  
1-SPL PL 250 x 9 x 278 (SM490YA)  
1-SPL PL 250 x 9 x 385 (SM490YA)  
1-SPL PL 250 x 9 x 4073 (SM490YA)  
1-SPL PL 250 x 9 x 2142 (SM490YA)  
126-TCB M22 x 70 (S10T)

1-FLG PL 1910 x 15 x 6960 (SM490YA)  
4-RIB PL 200 x 20 x 6950 (SM490YB)

1-SPL PL 250 x 9 x 355 (SM490YA)  
1-SPL PL 250 x 9 x 2180 (SM490YA)  
2-SPL PL 250 x 9 x 1763 (SM490YA)  
1-SPL PL 250 x 9 x 278 (SM490YA)  
1-SPL PL 250 x 9 x 385 (SM490YA)  
1-SPL PL 250 x 9 x 4073 (SM490YA)  
1-SPL PL 250 x 9 x 2142 (SM490YA)  
126-TCB M22 x 70 (S10T)

1-FLG PL 3410 x 15 x 6960 (SM490YA)  
6-RIB PL 200 x 20 x 6950 (SM490YB)

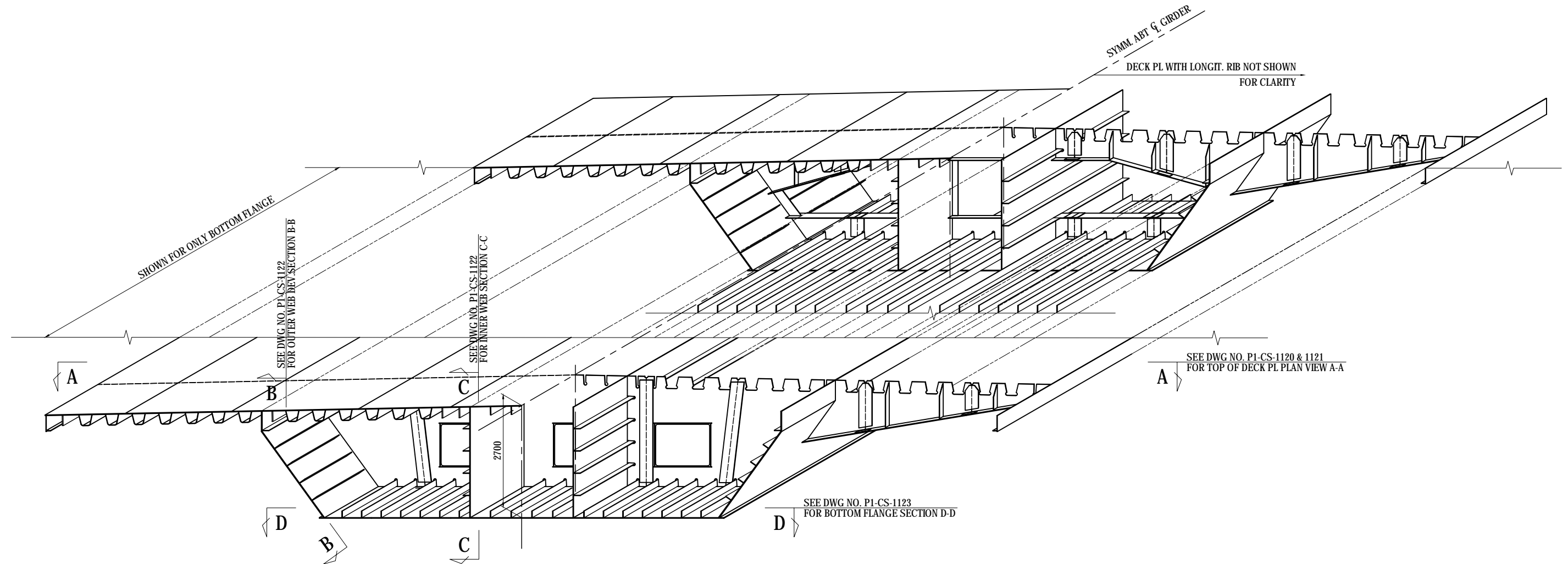
### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1114.
- 2 - SET DRAINAGE IN LOWER LONGITUDINAL GRADIENT SIDE.

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER<br/>         DETAIL FOR BOTTOM FLANGE</b> | 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-1118 |

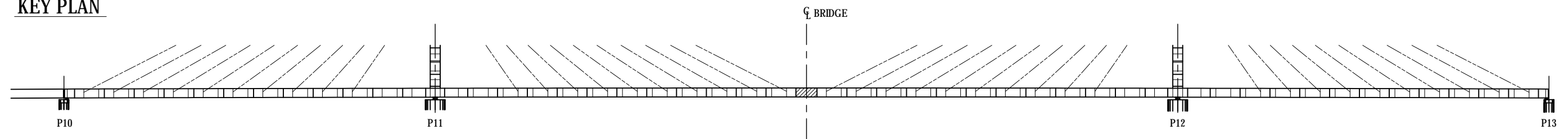
# MAIN GIRDER LAYOUT AT ERECTION SEGMENT

SEGMENT NO.27 N.T.S.



**NOTES:**  
 1 - DETAIL FOR DIAPHRAGM & CROSSFRAME  
 SEE DWG. NO. P1-CS-1107 & 1108.

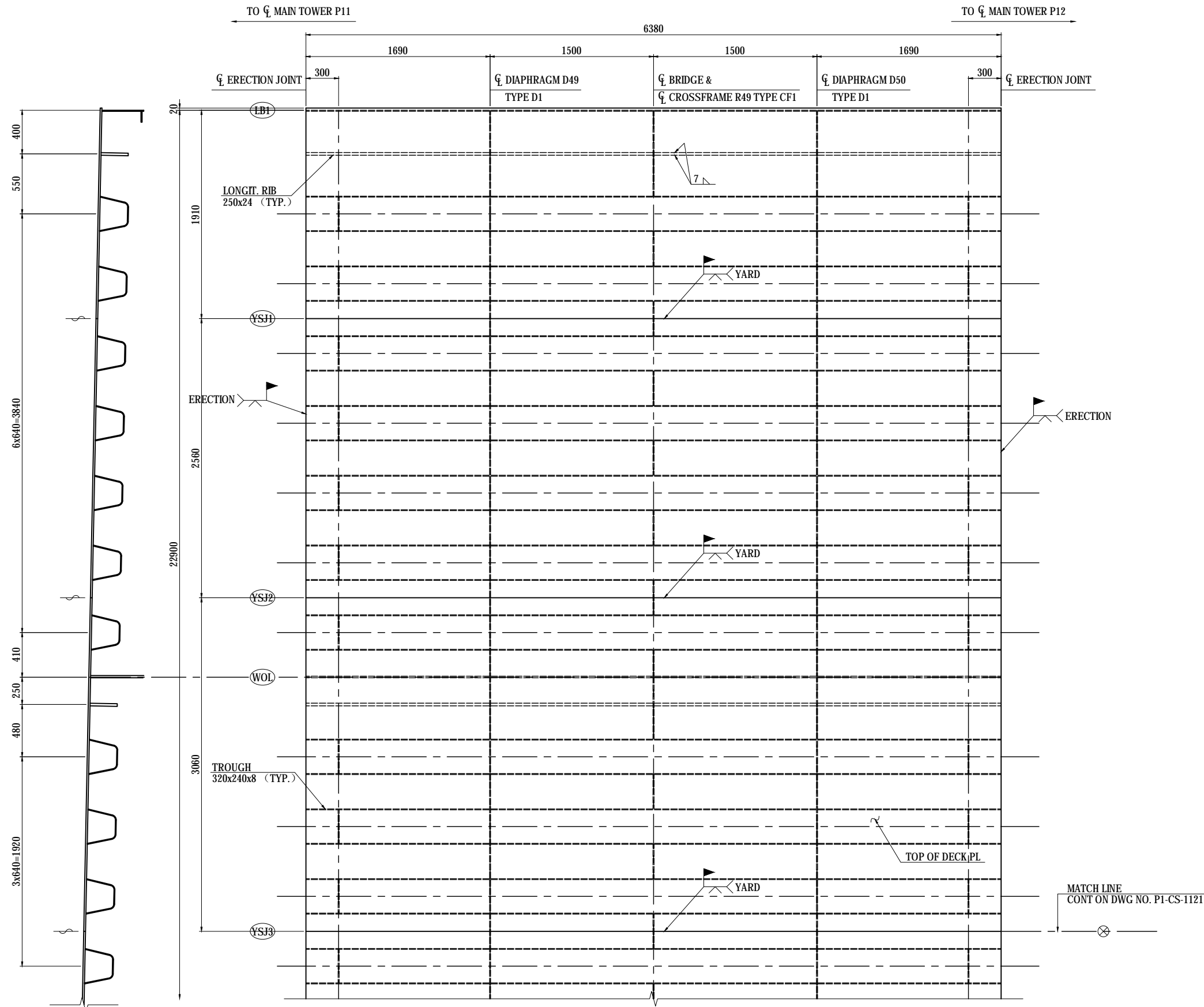
## KEY PLAN



| PROJECT NAME  | FINANCED BY                               | COUNTERPART  | JICA STUDY TEAM   | NAME                      | SIGNATURE | DATE         | DRAWING TITLE   | PACKAGE    |
|---|---|--|---|---------------------------|-----------|--------------|---|------------|
| DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | JAPAN INTERNATIONAL<br>COOPERATION AGENCY | REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | PREPARED BY<br>T.TOMODA   |           | 27. Nov.2017 | MAIN GIRDER LAYOUT AT ERECTION SEGMENT<br>( SEGMENT NO.27 ) | 1          |
|   |   |  |   | CHECKED BY<br>T. HAYAKAWA |           | 28. Nov.2017 |   | DWG No.    |
|   |   |  |   | APPROVED BY<br>Y. SANO    |           | 29. Nov.2017 |   | P1-CS-1119 |

# MAIN GIRDER DETAIL FOR DECK PL (1) S=1:40

## TOP OF DECK PL PLAN VIEW A-A



1-DECK PL 1930 x 16 x 6380  
 1-RIB PL 250 x 24 x 6370  
 1-URIB 320 x 240 x 8 x 6370  
 3-URIB 320 x 240 x 8 x 1757  
 4-DIA PL 254 x 6 x 308

1-DECK PL 2560 x 16 x 6380  
 4-URIB 320 x 240 x 8 x 6370  
 8-DIA PL 254 x 6 x 308

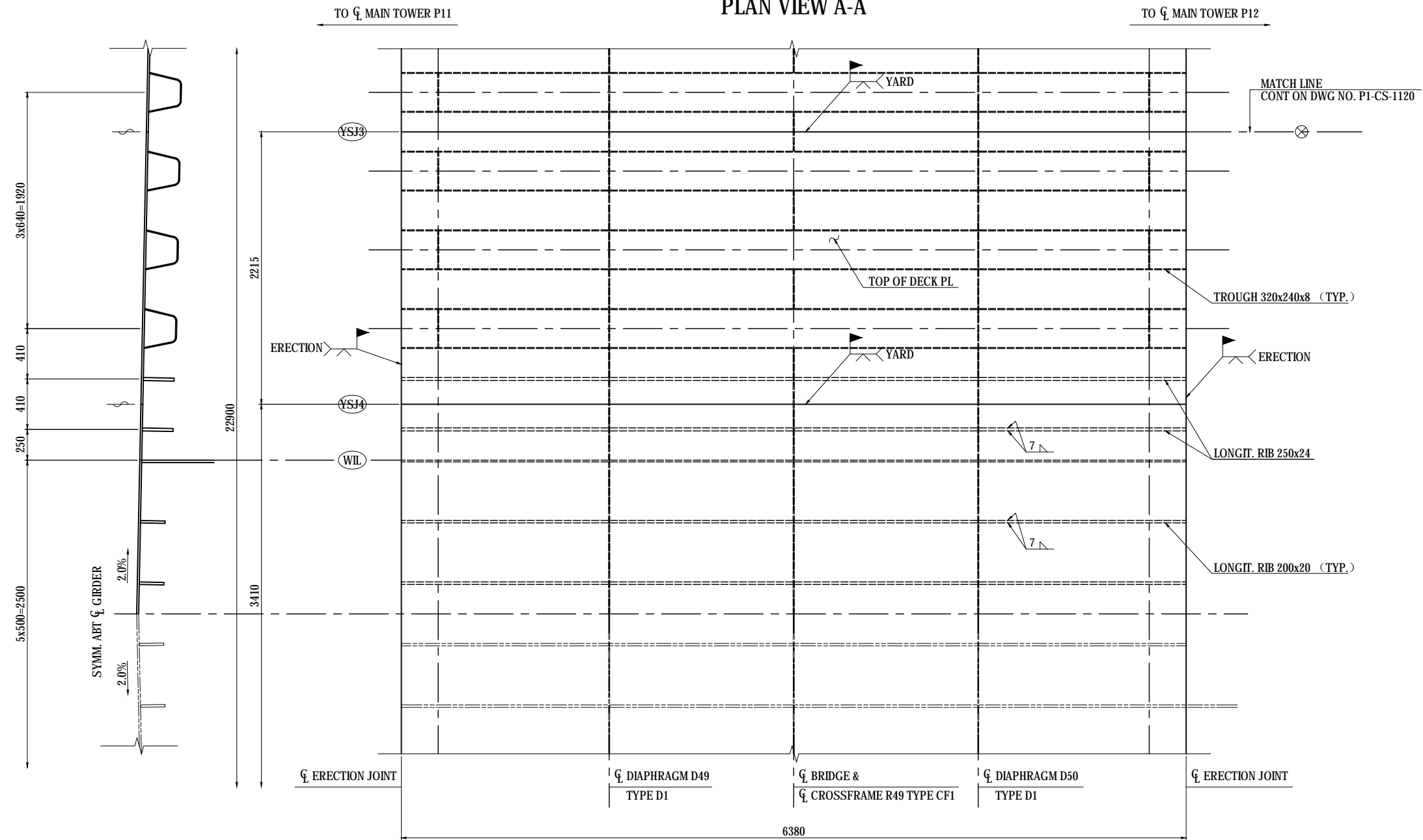
1-DECK PL 3060 x 16 x 6380  
 1-RIB PL 250 x 24 x 6370  
 1-URIB 320 x 240 x 8 x 6370  
 3-URIB 320 x 240 x 8 x 6370  
 8-DIA PL 254 x 6 x 308

- NOTES:**
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1119.
  - 2 - ANCILLARIES NOT SHOWN.  
FOR LOCATION SEE DWG NO. P1-CS-1020 TO 1028.
  - 3 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |                                       |              |
|---|--|---|--|-------------|-------------|------|--|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER<br>DETAIL FOR DECK PL (1) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1120 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |  |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |  |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |  |                                       | 29. Nov.2017 |

# MAIN GIRDER DETAIL FOR DECK PL (2) S=1:40

## TOP OF DECK PL PLAN VIEW A-A



1-DECK PL 2215 x 16 x 6380  
1-RIB PL 250 x 24 x 6370  
3-URIB 320 x 240 x 8 x 6370  
6-DIA PL 254 x 6 x 308

1-DECK PL 3410 x 16 x 6380  
2-RIB PL 250 x 24 x 6370  
4-RIB PL 200 x 20 x 6370

### NOTES:

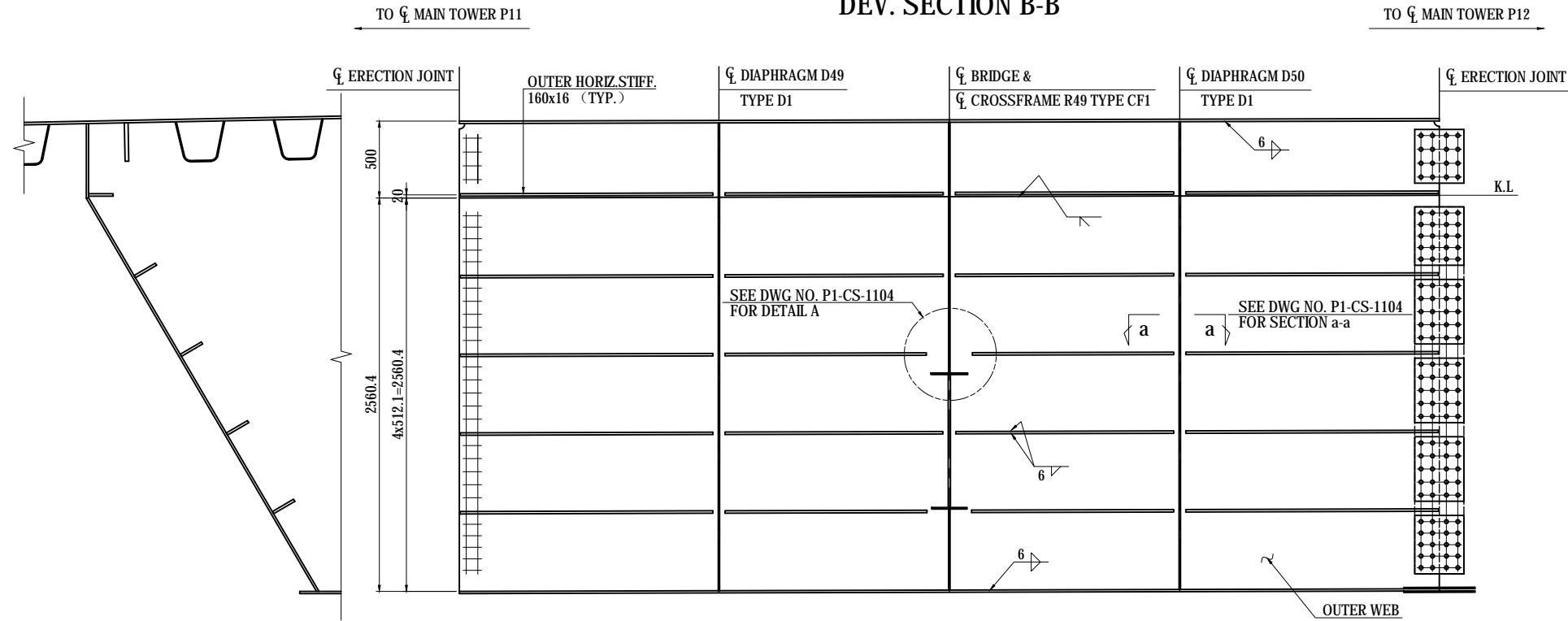
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1119.
- 2 - ANCILLARIES NOT SHOWN.  
FOR LOCATION SEE DWG NO. P1-CS-1020 TO 1028.
- 3 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

| PROJECT NAME  | FINANCED BY                                       | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE | DATE          | DRAWING TITLE                         | PACKAGE    |
|---|---|--|---|-------------|-----------|---------------|---------------------------------------|------------|
| DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | T. TOMODA   | 友田 隆雄     | 27. Nov. 2017 | MAIN GIRDER<br>DETAIL FOR DECK PL (2) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov. 2017 |                                       | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov. 2017 |                                       | P1-CS-1121 |

# MAIN GIRDER DETAIL FOR OUTER & INNER WEB

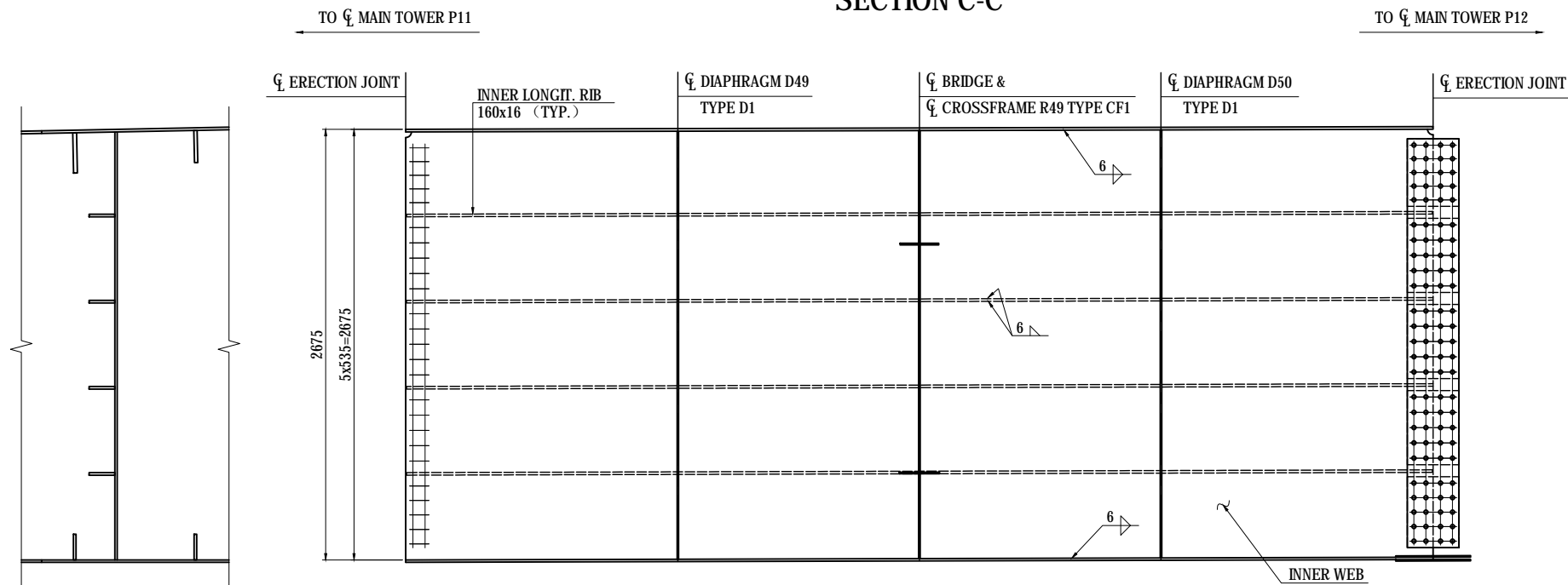
S=1:40

## OUTER WEB DEV. SECTION B-B



- 1-WEB PL 484 x 14 x 6380 (SM490YA)
- 1-WEB PL 2560 x 14 x 6380 (SM490YA)
- 10-HSTIF PL 160 x 16 x 1646 (SM490YA)
- 6-HSTIF PL 160 x 16 x 1421 (SM490YA)
- 2-HSTIF PL 160 x 16 x 1311 (SM490YA)
- 2-HSTIF PL 160 x 16 x 1316 (SM490YA)

## INNER WEB SECTION C-C



- 1-WEB PL 2659 x 14 x 6380 (SM490YA)
- 3-RIB PL 160 x 16 x 6370 (SM490YA)
- 2-RIB PL 160 x 16 x 3060 (SM490YA)

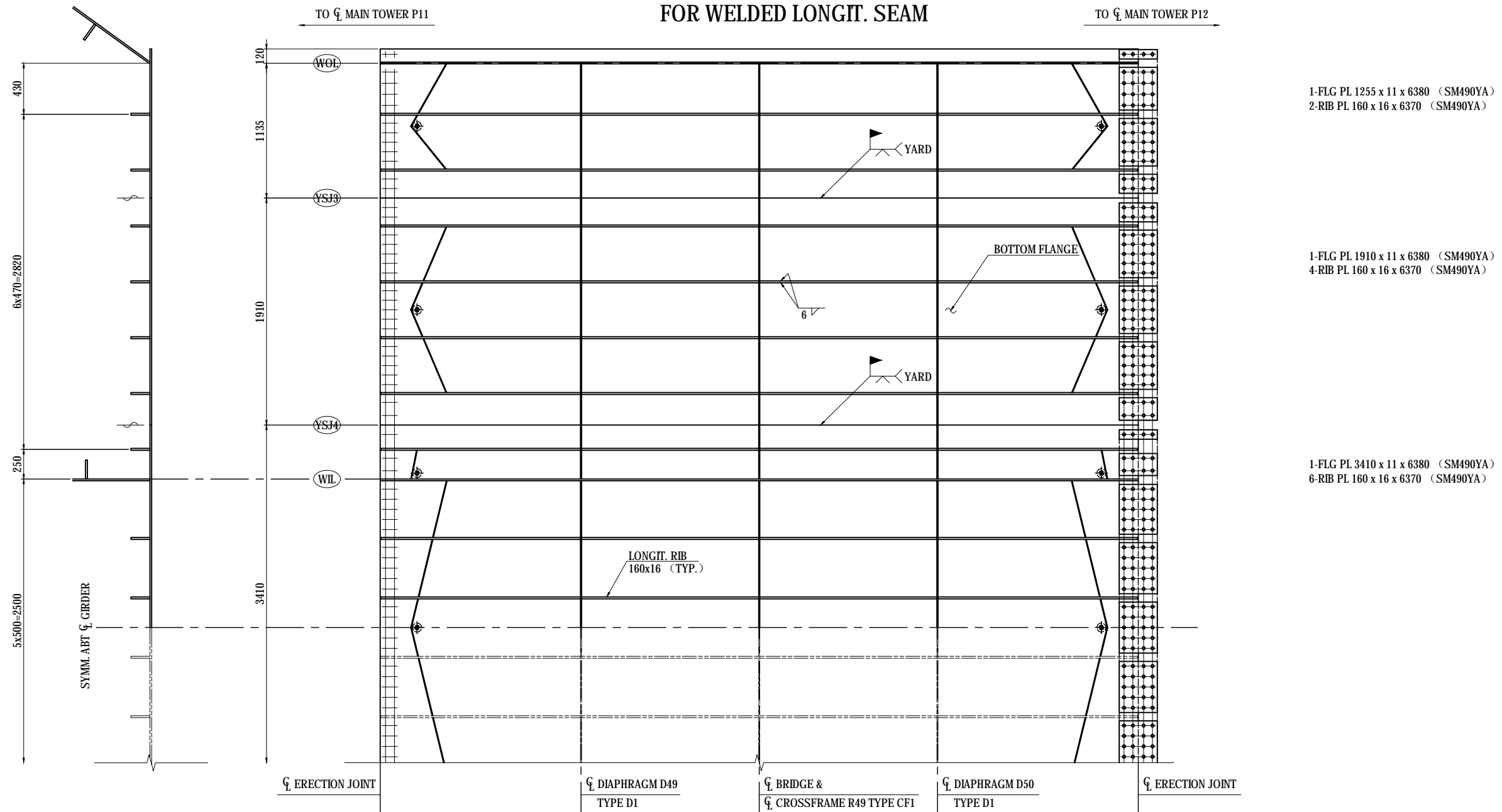
### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1119.
- 2 - ANCILLARIES NOT SHOWN.  
FOR LOCATION SEE DWG NO. P1-CS-1020 TO 1028.

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER<br/>         DETAIL FOR OUTER &amp; INNER WEB</b> | PACKAGE      |            |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |   | 27. Nov.2017 | DWG No.    |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |   | 28. Nov.2017 | P1-CS-1122 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |   | 29. Nov.2017 |            |

# MAIN GIRDER DETAIL FOR BOTTOM FLANGE S=1:40

## BOTTOM FLANGE SECTION D-D FOR WELDED LONGIT. SEAM



**NOTES:**

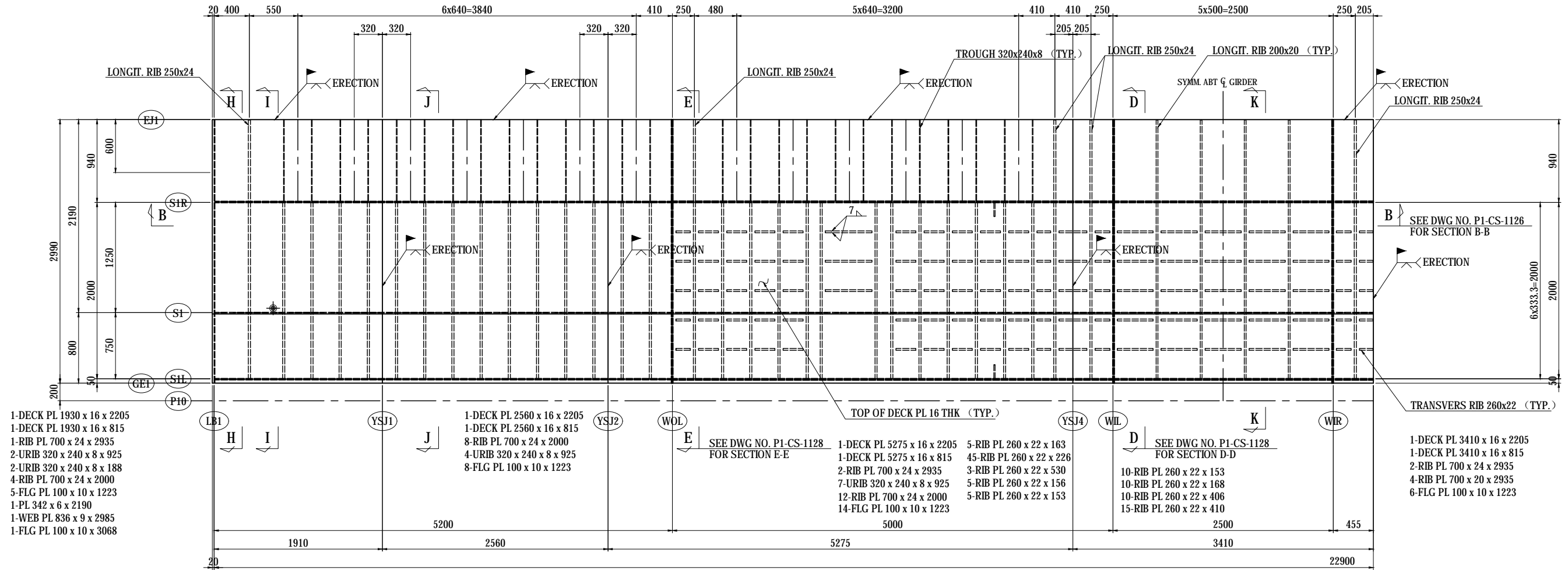
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1119.

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><h3 style="text-align: center;">MAIN GIRDER<br/>DETAIL FOR BOTTOM FLANGE</h3> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1123 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|---|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |

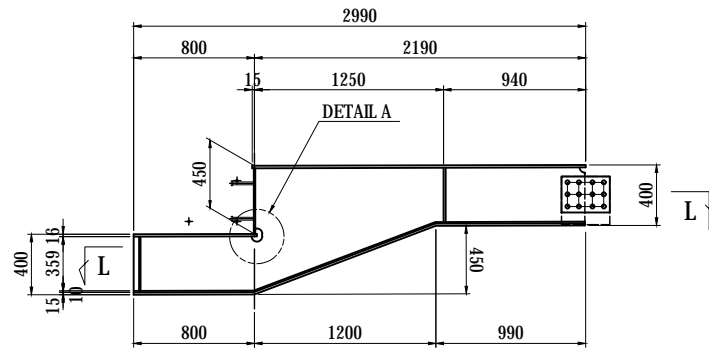


# MAIN GIRDER END CROSS BEAM (1) S=1:50

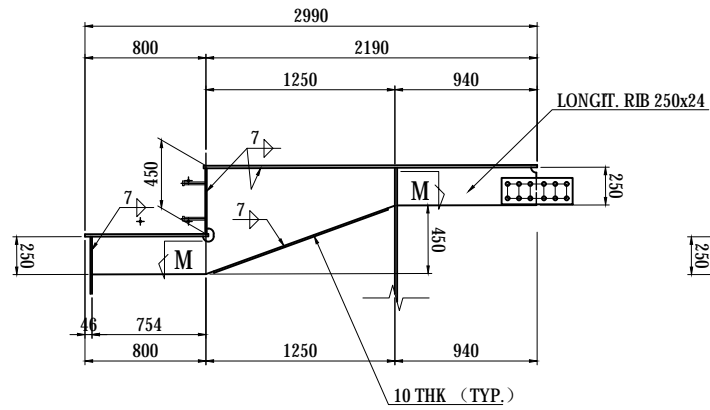
TOP OF DECK PL



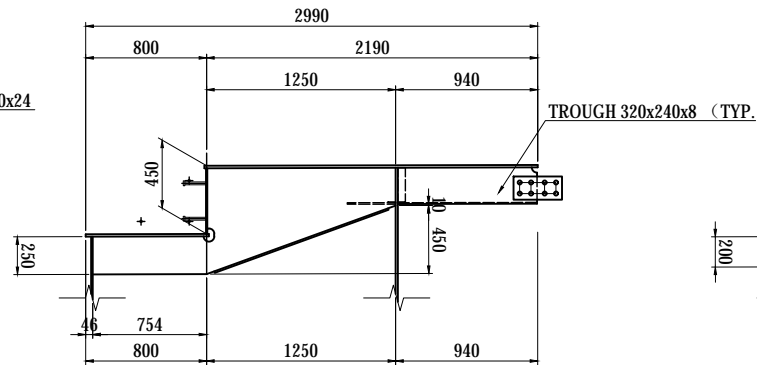
SECTION H-H



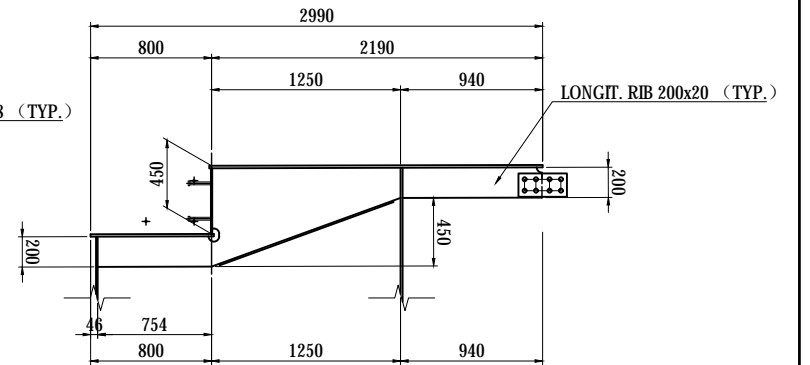
SECTION I-I



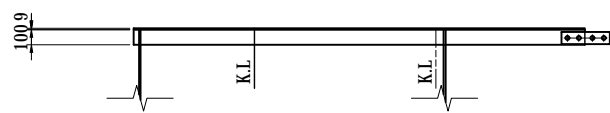
SECTION J-J



SECTION K-K



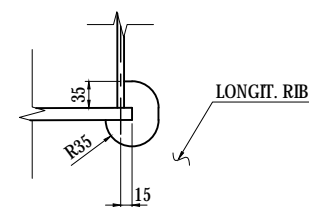
SECTION L-L



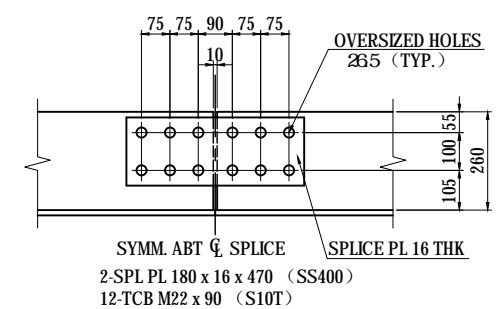
SECTION M-M



DETAIL A S=1:10



SPLICE DETAIL S=1:20



**NOTES:**

1 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |       |  |                                       |              |
|---|--|---|--|-------------|-------------|-------|--|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE<br><b>MAIN GIRDER<br/>END CROSS BEAM (1)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1124 |              |
|   |  |   |  | 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 隆一 |  |                                       | 29. Nov.2017 |

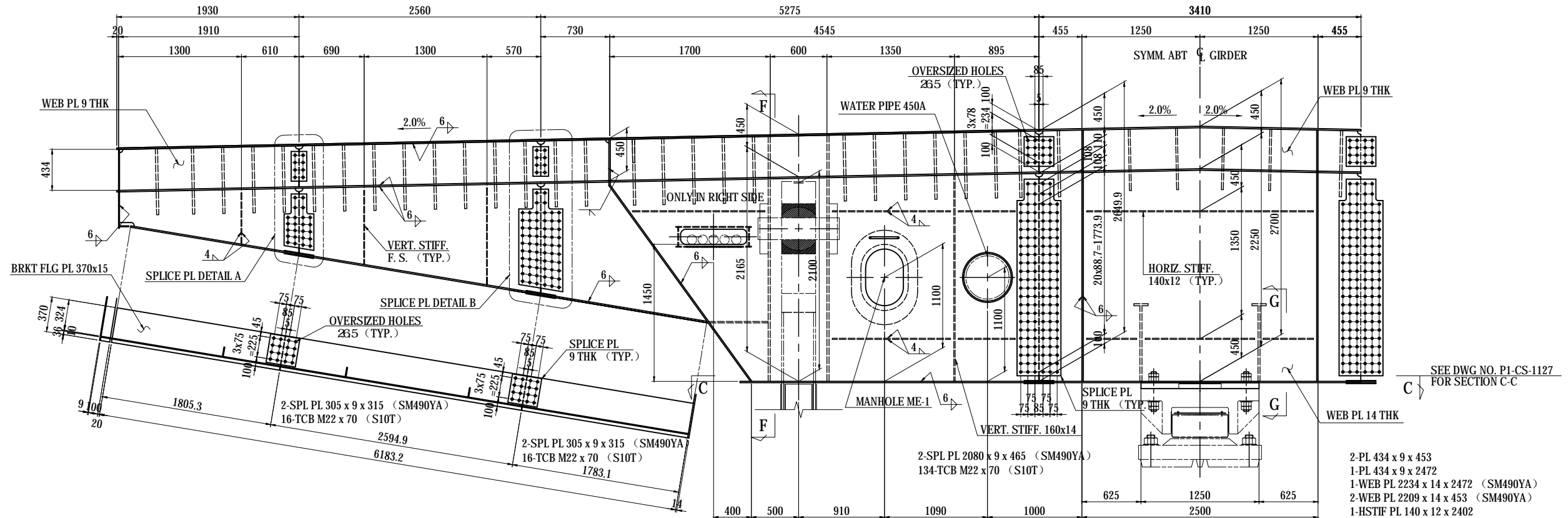
# MAIN GIRDER END CROSS BEAM (2) S=1:50

## END CROSS BEAM SECTION DEV. SECTION A-A

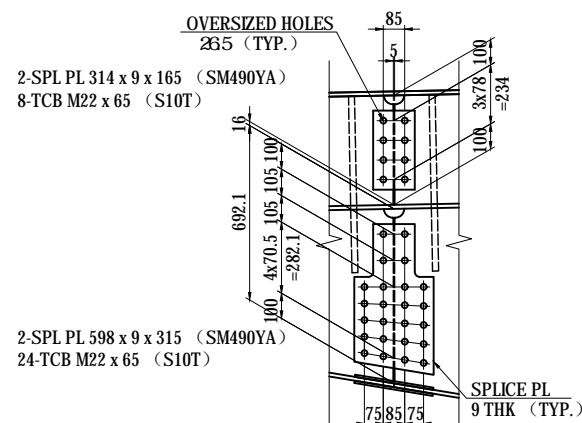
1-PL 434 x 9 x 1896  
1-WEB PL 692 x 10 x 1899 (SM490YA)  
1-FLG PL 370 x 15 x 1803 (SM490YA)  
1-STIF PL 100 x 9 x 544

1-PL 434 x 9 x 2555  
1-WEB PL 1167 x 10 x 2555 (SM490YA)  
1-FLG PL 370 x 15 x 2590 (SM490YA)  
1-STIF PL 100 x 9 x 785  
1-STIF PL 100 x 9 x 1026

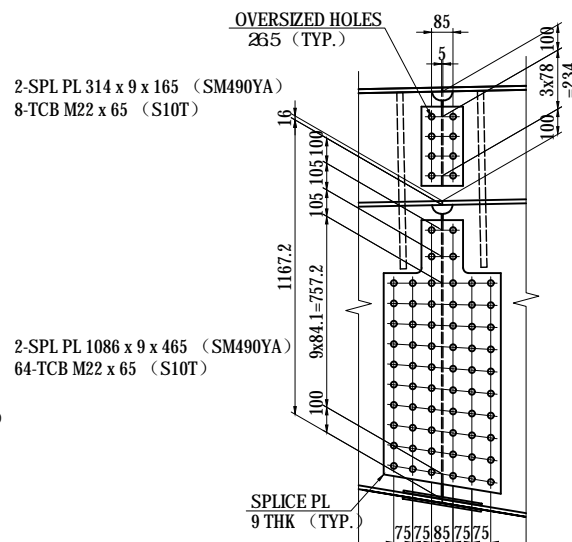
2-SPL PL 314 x 9 x 315 (SM490YA)  
16-TCB M22 x 65 (S10T)



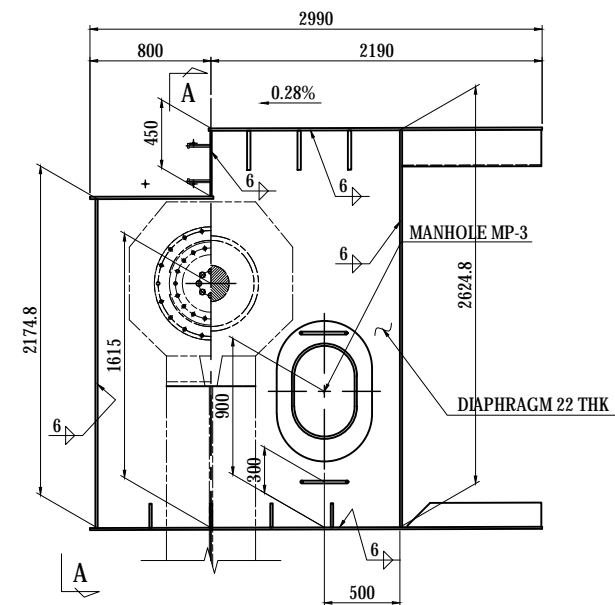
SPLICE PL DETAIL A S=1:30



SPLICE PL DETAIL B S=1:30



SECTION F-F



**NOTES:**  
1 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

1-WEB PL 1473 x 10 x 1757 (SM490YA)  
1-FLG PL 370 x 15 x 1781 (SM490YA)  
1-WEB PL 2200 x 14 x 4538 (SM490YA)  
1-HSTIF PL 140 x 12 x 1403  
2-HSTIF PL 140 x 12 x 1251  
2-HSTIF PL 140 x 12 x 601  
1-VSTIF PL 160 x 14 x 2182  
1-PL 100 x 10 x 1615 (SM490YA)  
1-PL 324 x 15 x 630 (SM490YA)  
1-DIA PL 2000 x 22 x 2593 (SM490YB)  
1-DIA PL 2000 x 22 x 2605 (SM490YB)

2-PL 434 x 9 x 453  
1-PL 434 x 9 x 2472  
1-WEB PL 2234 x 14 x 2472 (SM490YA)  
2-WEB PL 2209 x 14 x 453 (SM490YA)  
1-HSTIF PL 140 x 12 x 2402  
2-HSTIF PL 140 x 12 x 530  
1-HSTIF PL 140 x 12 x 1158

|   |  |   |  |  |                                      |  |  |                                       |
|---|--|---|--|--|--------------------------------------|--|--|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>T.TOMODA<br>T. HAYAKAWA<br>Y. SANO | SIGNATURE<br>友田 隆雄<br>平川 知平<br>佐野 祐一 | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br>MAIN GIRDER<br>END CROSS BEAM (2) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1125 |
|---|--|---|--|--|--------------------------------------|--|--|---------------------------------------|

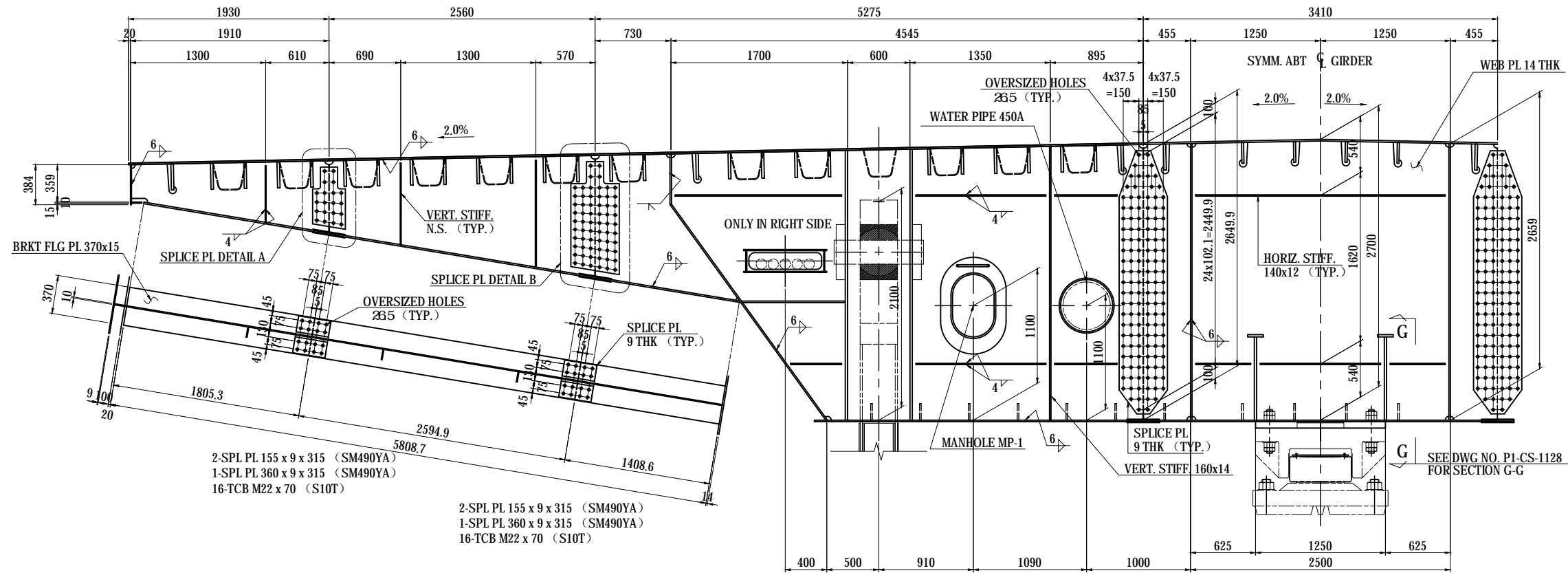
# MAIN GIRDER END CROSS BEAM (3) S=1:50

## END CROSS BEAM SECTION SECTION B-B

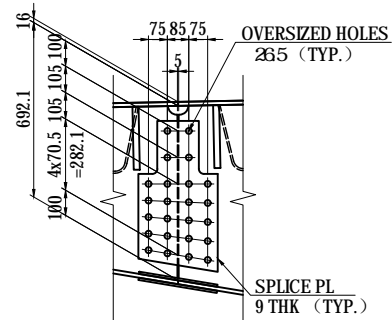
1-WEB PL 692 x 10 x 1899 (SM490YA)  
 1-FLG PL 370 x 15 x 1803 (SM490YA)  
 1-STIF PL 100 x 9 x 544

1-WEB PL 1167 x 10 x 2555 (SM490YA)  
 1-FLG PL 370 x 15 x 2590 (SM490YA)  
 1-STIF PL 100 x 9 x 785  
 1-STIF PL 100 x 9 x 1026

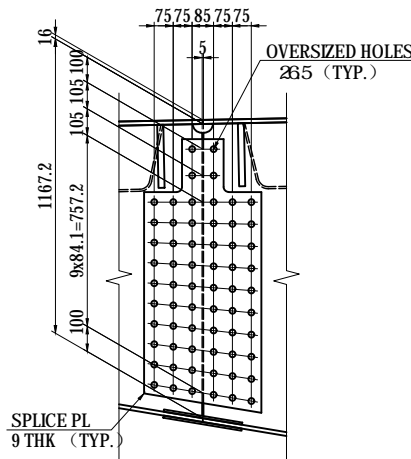
2-SPL PL 2530 x 9 x 465 (SM490YA)  
 132-TCB M22 x 70 (S10T)



SPLICE PL DETAIL A S=1:30



SPLICE PL DETAIL B S=1:30



1-WEB PL 1412 x 10 x 1387 (SM490YA)  
 1-FLG PL 370 x 15 x 1406 (SM490YA)  
 1-WEB PL 2650 x 14 x 4538 (SM490YA)  
 1-HSTIF PL 140 x 12 x 1603  
 1-HSTIF PL 140 x 12 x 492  
 2-HSTIF PL 140 x 12 x 1251  
 2-HSTIF PL 140 x 12 x 601  
 1-VSTIF PL 160 x 14 x 2632  
 1-PL 100 x 10 x 1615 (SM490YA)  
 2-PL 178 x 15 x 1000 (SM490YA)

1-WEB PL 2684 x 14 x 2472 (SM490YA)  
 2-WEB PL 2659 x 14 x 453 (SM490YA)  
 1-HSTIF PL 140 x 12 x 2402  
 2-HSTIF PL 140 x 12 x 530  
 1-HSTIF PL 140 x 12 x 1158

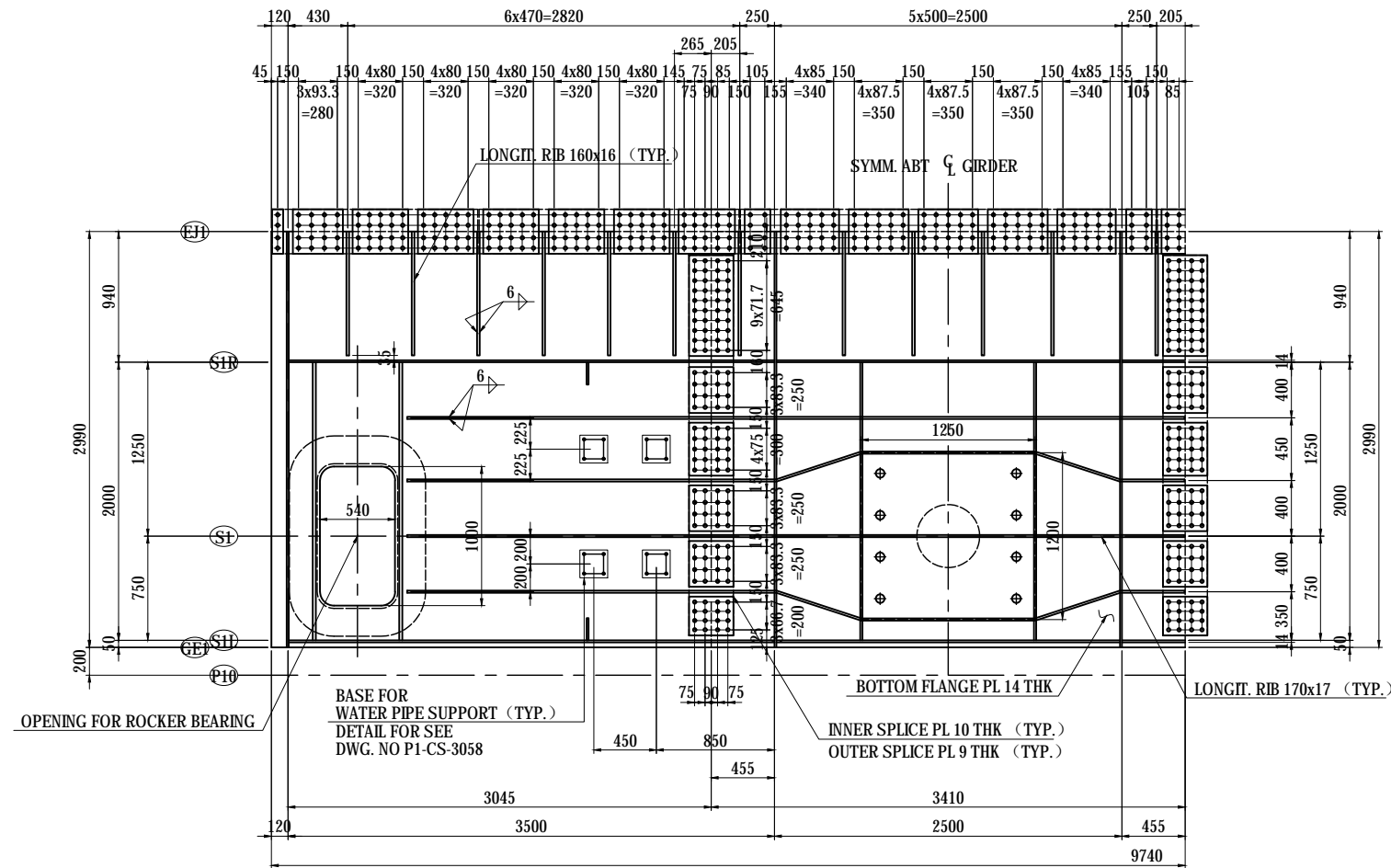
**NOTES:**  
 1 - STEEL GRADE OF STEEL PLATE  
 UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER<br/>                 END CROSS BEAM (3)</b> | 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-1126 |

# MAIN GIRDER END CROSS BEAM (4)

S=1:50

## BOTTOM FLANGE SECTION C-C

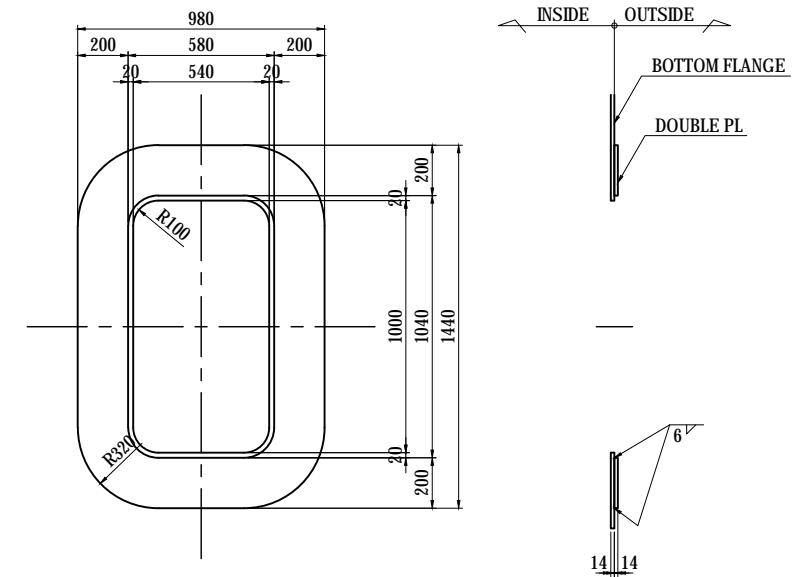


- 1-FLG PL 3165 x 14 x 2990 (SM490YA)
- 6-RIB PL 160 x 16 x 886 (SM490YA)
- 4-RIB PL 160 x 16 x 2183 (SM490YA)
- 1-PL 980 x 14 x 1440 (SM490YA)

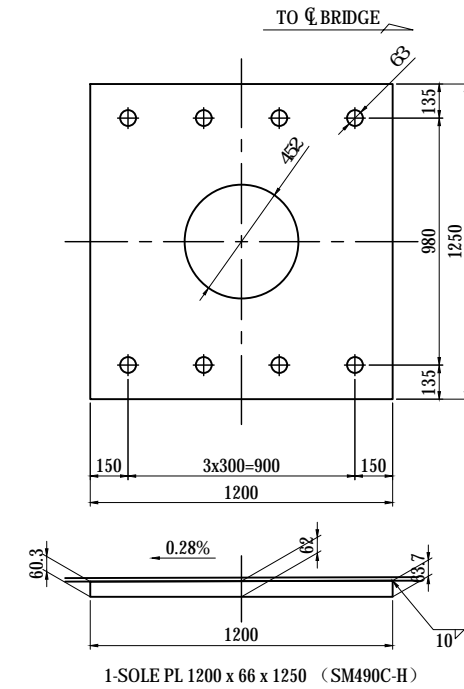
- 1-SPL PL 2735 x 9 x 320 (SM490YA)
- 1-SPL PL 280 x 10 x 320 (SM490YA)
- 3-SPL PL 330 x 10 x 320 (SM490YA)
- 1-SPL PL 380 x 10 x 320 (SM490YA)
- 1-SPL PL 725 x 10 x 320 (SM490YA)
- 124-TCB M22 x 70 (S10T)

- 1-FLG PL 3410 x 14 x 2990 (SM490YA)
- 6-RIB PL 160 x 16 x 886 (SM490YA)
- 2-RIB PL 160 x 16 x 3400 (SM490YA)
- 2-RIB PL 160 x 16 x 3469 (SM490YA)

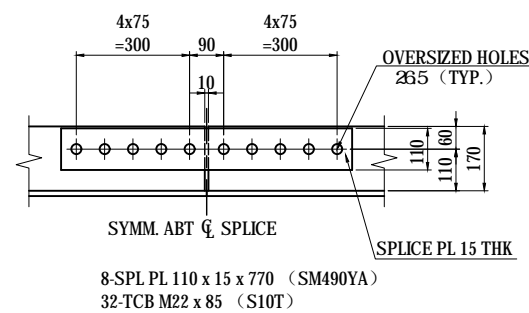
## DOUBLING PL DETAIL S=1:30



## SOLE PL DETAIL S=1:30



## SPLICE DETAIL S=1:20



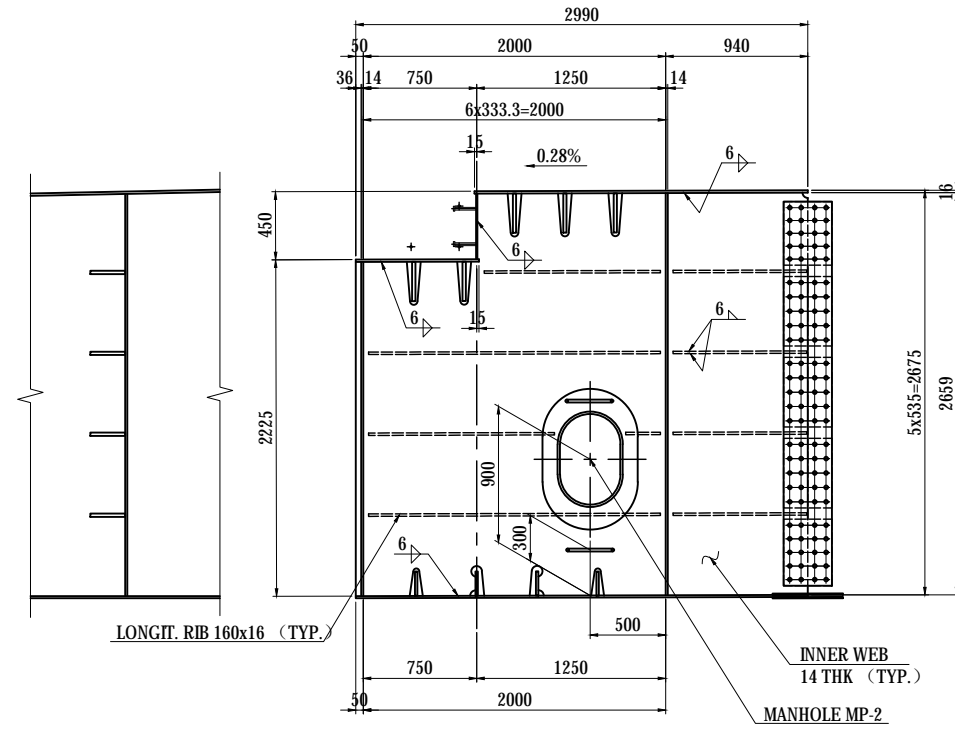
- 8-SPL PL 110 x 15 x 770 (SM490YA)
- 32-TCB M22 x 85 (S10T)

|   |  |   |  |             |             |      |  |                                       |              |
|---|--|---|--|-------------|-------------|------|--|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER<br>END CROSS BEAM (4) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1127 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |  |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |  |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |  |                                       | 29. Nov.2017 |

# MAIN GIRDER END CROSS BEAM (5)

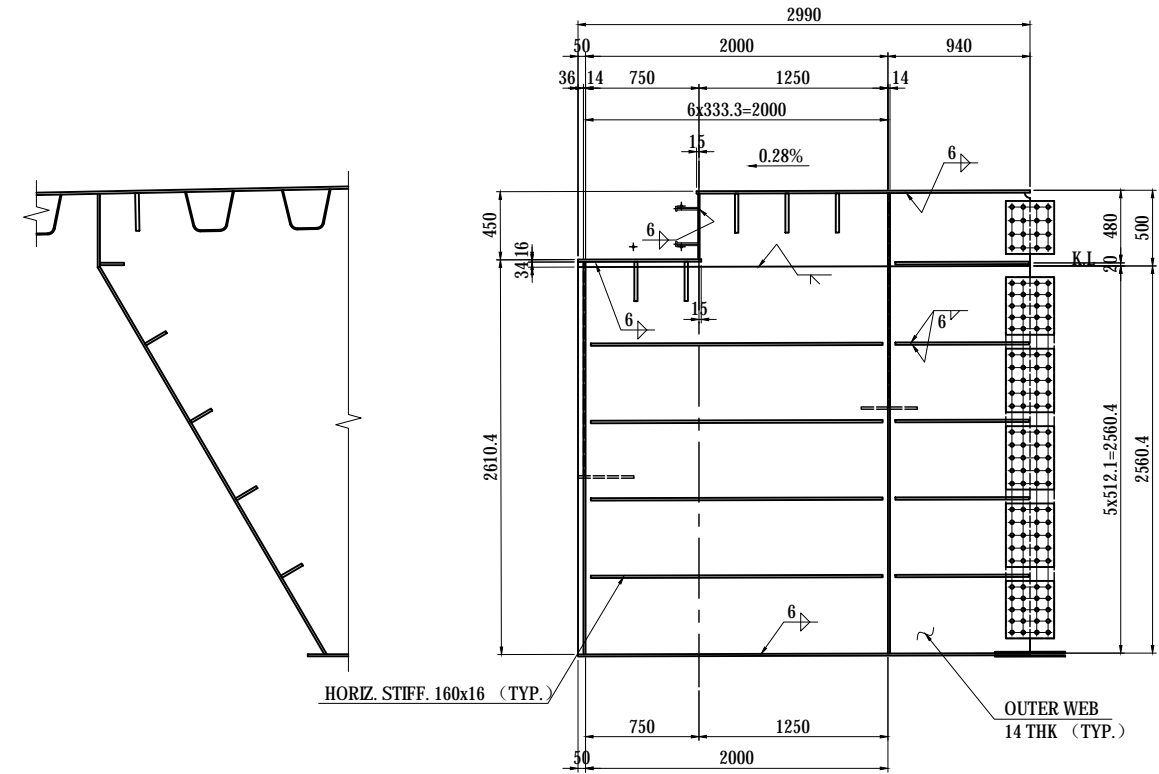
S=1:50

## INNER WEB SECTION D-D



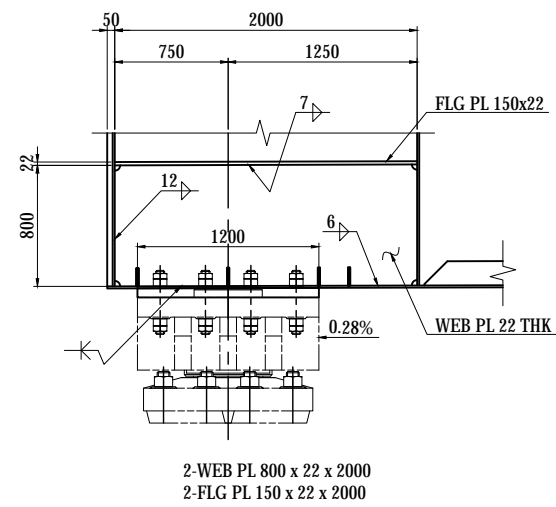
- 1-WEB PL 2659 x 14 x 2990 (SM490YA)
- 1-RIB PL 160 x 16 x 1165 (SM490YA)
- 2-RIB PL 160 x 16 x 1930 (SM490YA)
- 1-RIB PL 160 x 16 x 1230 (SM490YA)
- 1-RIB PL 160 x 16 x 230 (SM490YA)
- 4-RIB PL 160 x 16 x 886 (SM490YA)

## OUTER WEB DEV. SECTION E-E



- 1-WEB PL 484 x 14 x 2990 (SM490YA)
- 1-WEB PL 2560 x 14 x 2990 (SM490YA)
- 4-HSTIF PL 160 x 16 x 1930 (SM490YA)
- 5-HSTIF PL 160 x 16 x 886 (SM490YA)

## SECTION G-G



- 2-WEB PL 800 x 22 x 2000
- 2-FLG PL 150 x 22 x 2000

**NOTES:**  
1 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

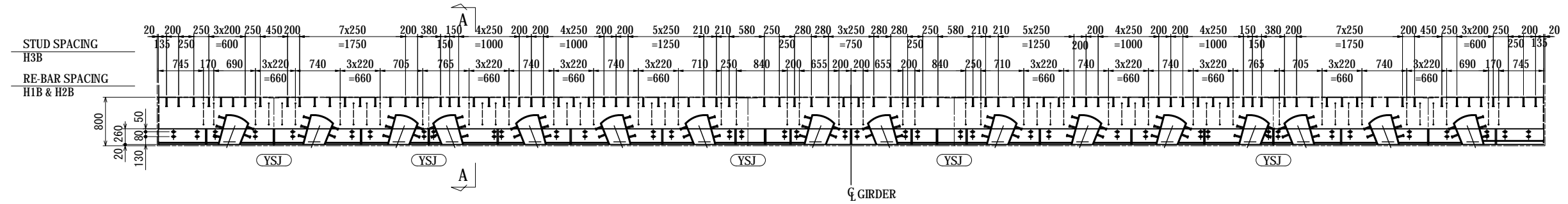
|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER<br/>         END CROSS BEAM (5)</b> | PACKAGE      |            |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |   | 27. Nov.2017 | DWG No.    |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |   | 28. Nov.2017 | P1-CS-1128 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |   | 29. Nov.2017 |            |

# MAIN GIRDER END CROSS BEAM (6)

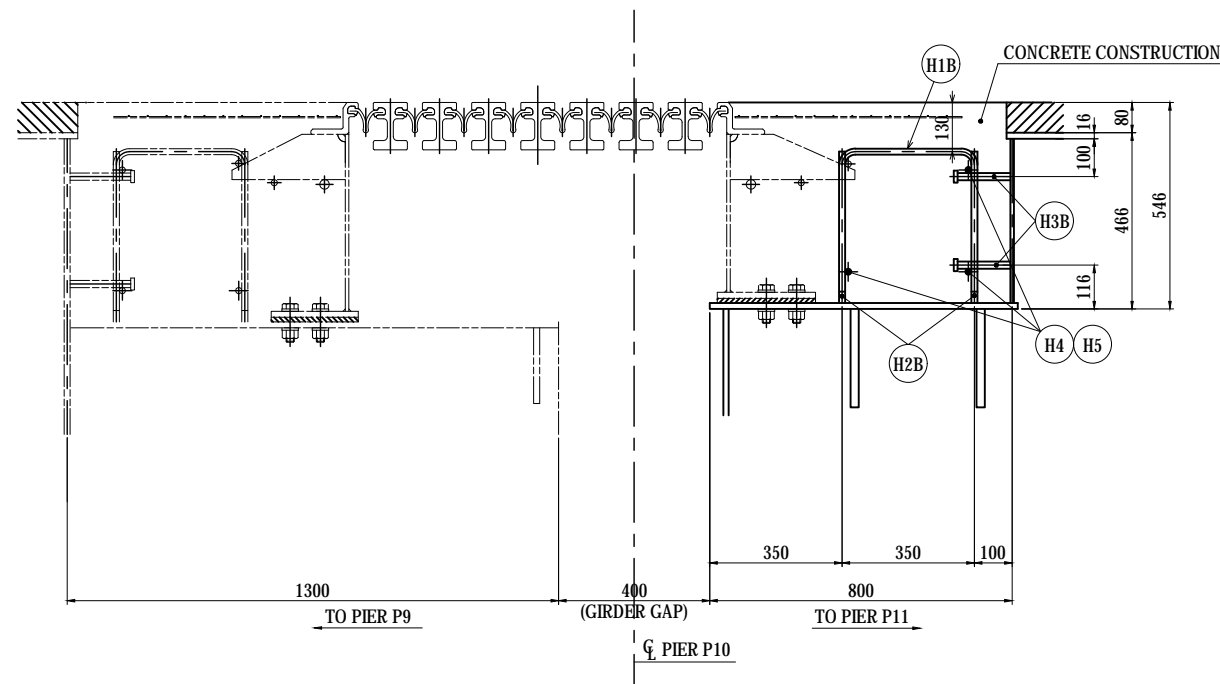
S=1:80

## DETAIL FOR RE-BAR & STUD OF PIER P10

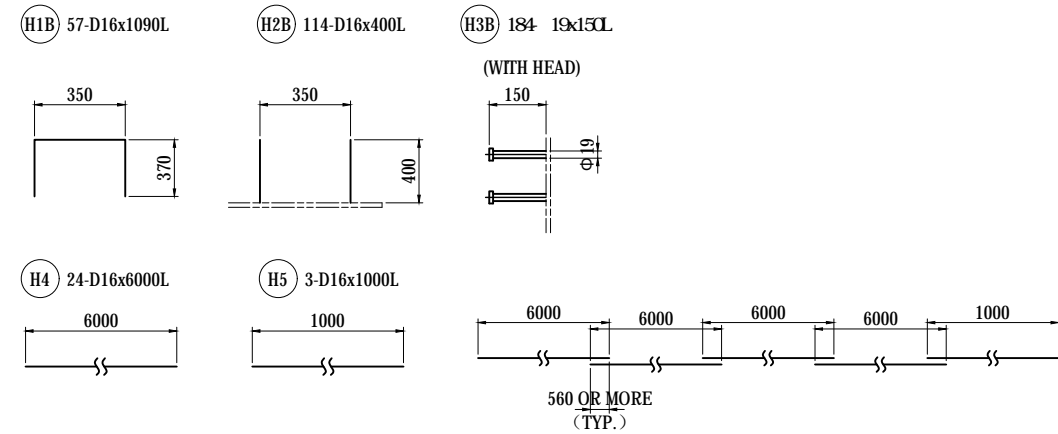
### SECTION B-B



### SECTION A-A S=1:20



### (H) RE-BAR & STUD DETAIL



### NOTES:

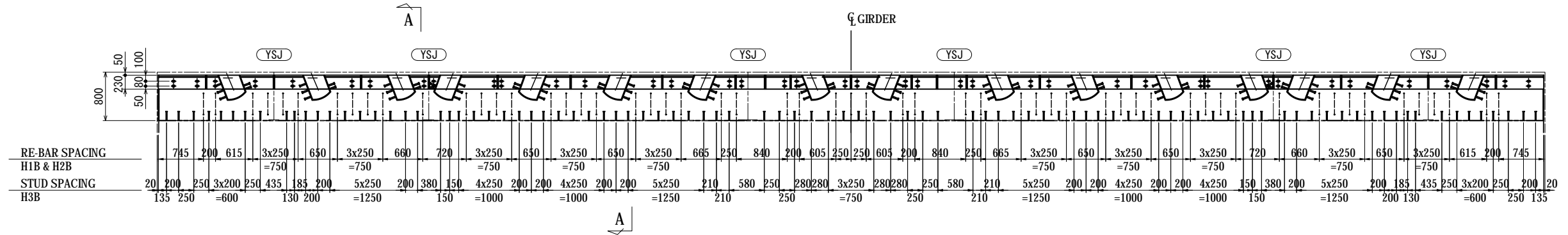
- 1 - (H) BE SURE TO MAKE PREPARATIONS FOR RE-BAR AT TIME OF SUPERSTRUCTURE WORK.
- 2 - (H2) (H3) BE SURE TO IMPLEMENT RE-BAR AT THE TIME OF FABRICATION OF THE DECK PL.
- 3 - CUT OFF ON-SITE THE SURPLUS LENGTH OF THE RE-BAR.
- 4 - CONSIDER CONNECTING WITH THE RE-BAR, ACCORDING TO THE TYPE OF EXPANSION JOINT.

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER<br>END CROSS BEAM (6) | PACKAGE      |            |
|   |  |   |  | PREPARED BY | S.TOKUMARU  |      |  | 27. Nov.2017 | 1          |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |  | 28. Nov.2017 | DWG No.    |
|   |  |   |  | APPROVED BY | Y. SANO     |      |  | 29. Nov.2017 | P1-CS-1129 |

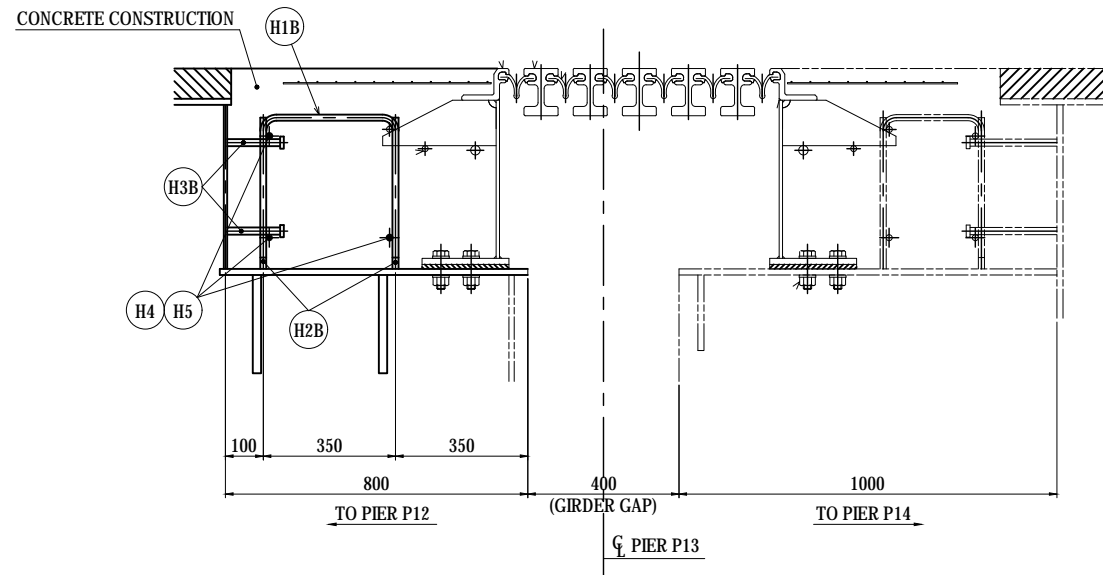
# MAIN GIRDER END CROSS BEAM (7) S=1:80

## DETAIL FOR RE-BAR & STUD OF PIER P13

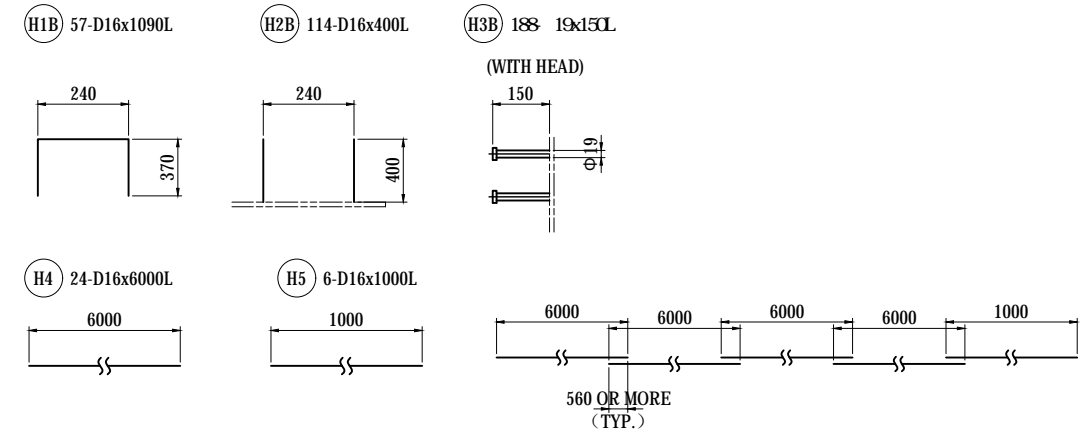
### SECTION B-B



### SECTION A-A S=1:20



### (H) RE-BAR & STUD DETAIL



#### NOTES:

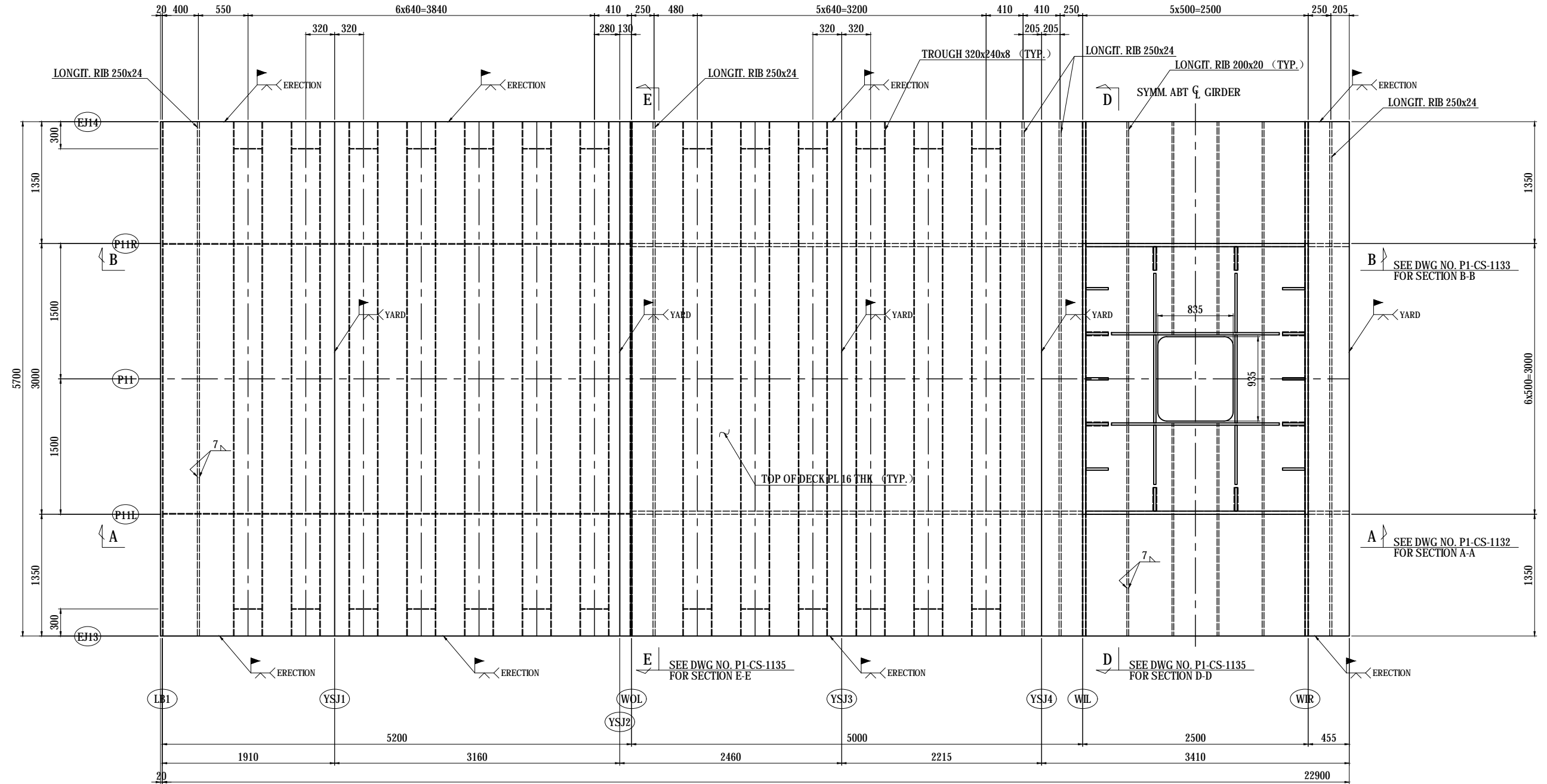
- 1 - (H) BE SURE TO MAKE PREPARATIONS FOR RE-BAR AT TIME OF SUPERSTRUCTURE WORK.
- 2 - (H2)(H3) BE SURE TO IMPLEMENT RE-BAR AT THE TIME OF FABRICATION OF THE DECK PL.
- 3 - CUT OFF ON-SITE THE SURPLUS LENGTH OF THE RE-BAR.
- 4 - CONSIDER CONNECTING WITH THE RE-BAR, ACCORDING TO THE TYPE OF EXPANSION JOINT.

|   |  |   |  |   |                       |  |  |                                       |
|---|--|---|--|---|-----------------------|--|--|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>PREPARED BY S.TOKUMARU<br>CHECKED BY T. HAYAKAWA<br>APPROVED BY Y. SANO | SIGNATURE<br><br><br> | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br><b>MAIN GIRDER<br/>END CROSS BEAM (7)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1130 |
|---|--|---|--|---|-----------------------|--|--|---------------------------------------|

# MAIN GIRDER MIDDLE CROSS BEAM (1)

S=1:50

TOP OF DECK PL



1-DECK PL 1930 x 16 x 5700 (SM490YA)  
 1-RIB PL 250 x 24 x 5690 (SM490YB)  
 1-URIB 320 x 240 x 8 x 5690 (SM490YA)  
 2-URIB 320 x 240 x 8 x 2570  
 4-DIA PL 254 x 6 x 308  
 1-WEB PL 384 x 9 x 5690  
 1-FLG PL 100 x 10 x 5690  
 1-PL 342 x 6 x 5690

1-DECK PL 3160 x 16 x 5700 (SM490YA)  
 5-URIB 320 x 240 x 8 x 5690 (SM490YA)  
 10-DIA PL 254 x 6 x 308

1-DECK PL 2460 x 16 x 5700 (SM490YA)  
 3-URIB 320 x 240 x 8 x 5690 (SM490YA)  
 6-DIA PL 254 x 6 x 308  
 1-RIB PL 250 x 24 x 5690 (SM490YB)

1-DECK PL 2215 x 16 x 5700 (SM490YA)  
 3-URIB 320 x 240 x 8 x 5690 (SM490YA)  
 6-DIA PL 254 x 6 x 308  
 1-RIB PL 250 x 24 x 5690 (SM490YB)

1-DECK PL 3410 x 16 x 5700 (SM490YA)  
 2-RIB PL 250 x 24 x 5690 (SM490YB)  
 2-RIB PL 200 x 20 x 5690 (SM490YB)  
 4-RIB PL 200 x 20 x 2358 (SM490YB)

**NOTES:**  
 1 - STEEL GRADE OF STEEL PLATE  
 UNLESS NOTE : SM400A

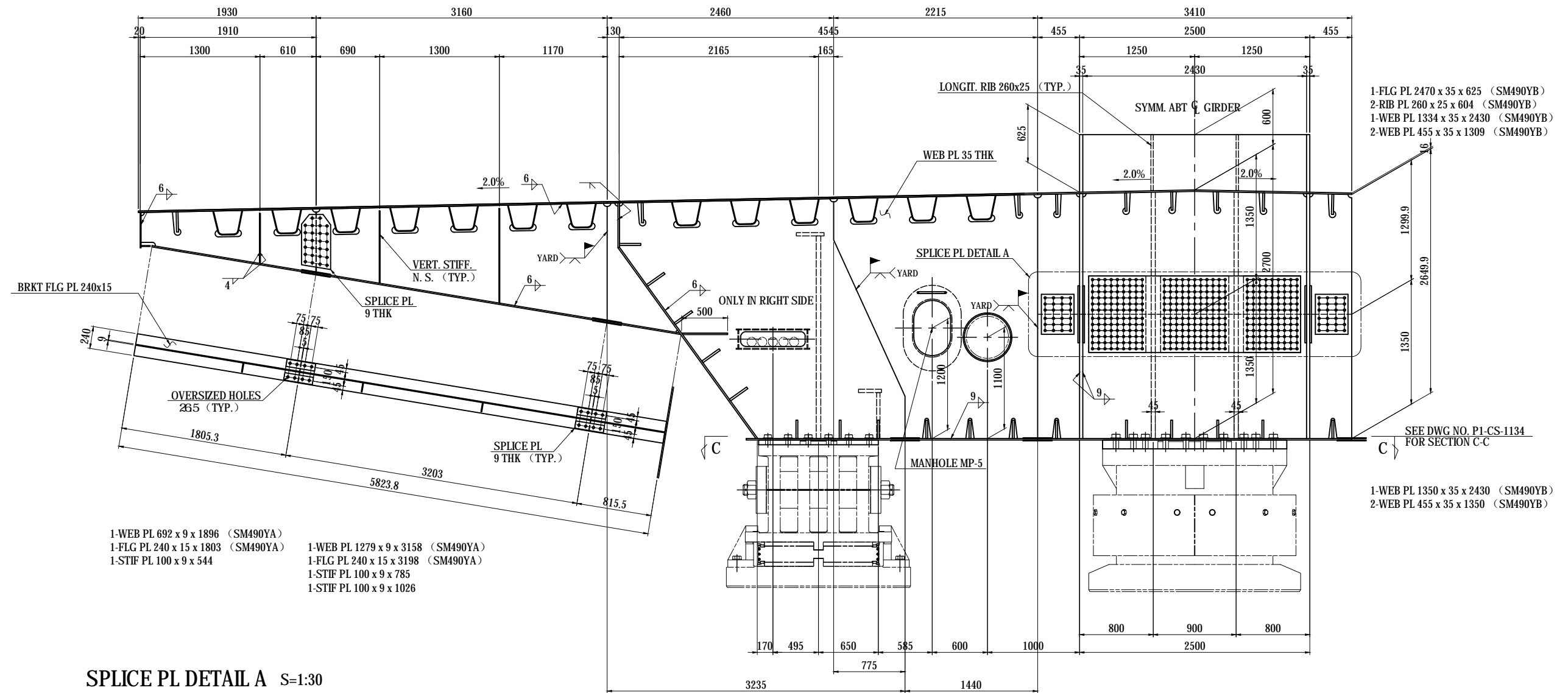
|   |  |   |  |             |             |       |   |                                       |              |
|---|--|---|--|-------------|-------------|-------|---|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE<br>MAIN GIRDER<br>MIDDLE CROSS BEAM (1) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1131 |              |
|   |  |   |  | 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 |



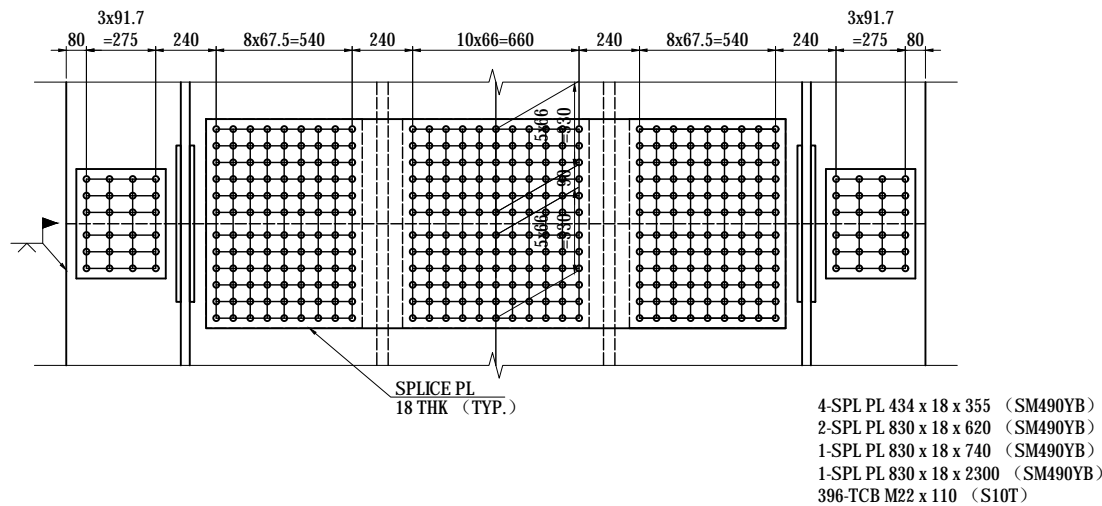
# MAIN GIRDER MIDDLE CROSS BEAM (2)

S=1:50

## MIDDLE CROSS BEAM SECTION (P11L) SECTION A-A



SPLICE PL DETAIL A S=1:30



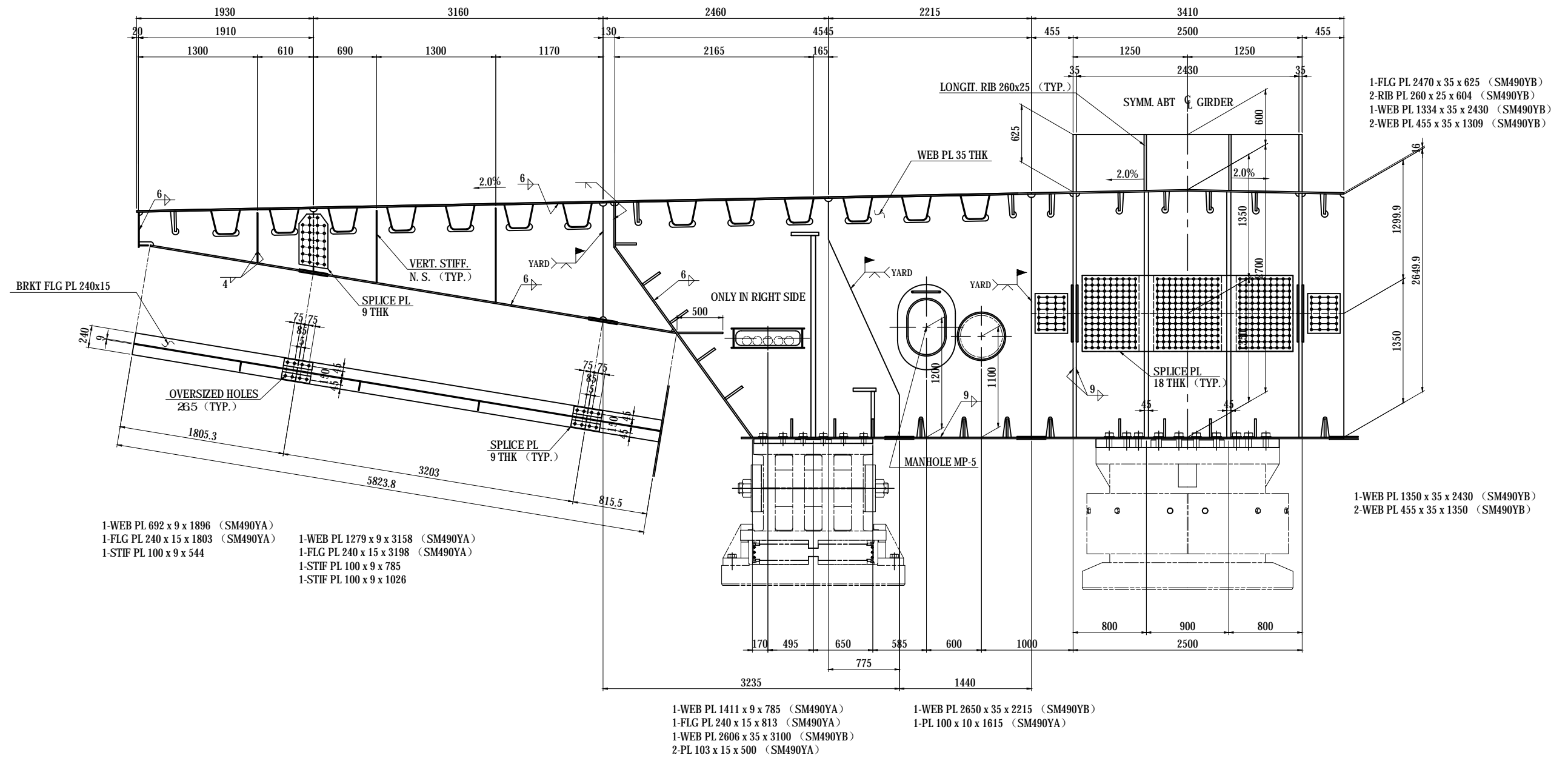
**NOTES:**  
1 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER<br/>         MIDDLE CROSS BEAM (2)</b> | 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-1132 |

# MAIN GIRDER MIDDLE CROSS BEAM (3)

S=1:50

## MIDDLE CROSS BEAM SECTION (P11R) SECTION B-B



**NOTES:**  
1 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER<br/>         MIDDLE CROSS BEAM (3)</b> | 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-1133 |

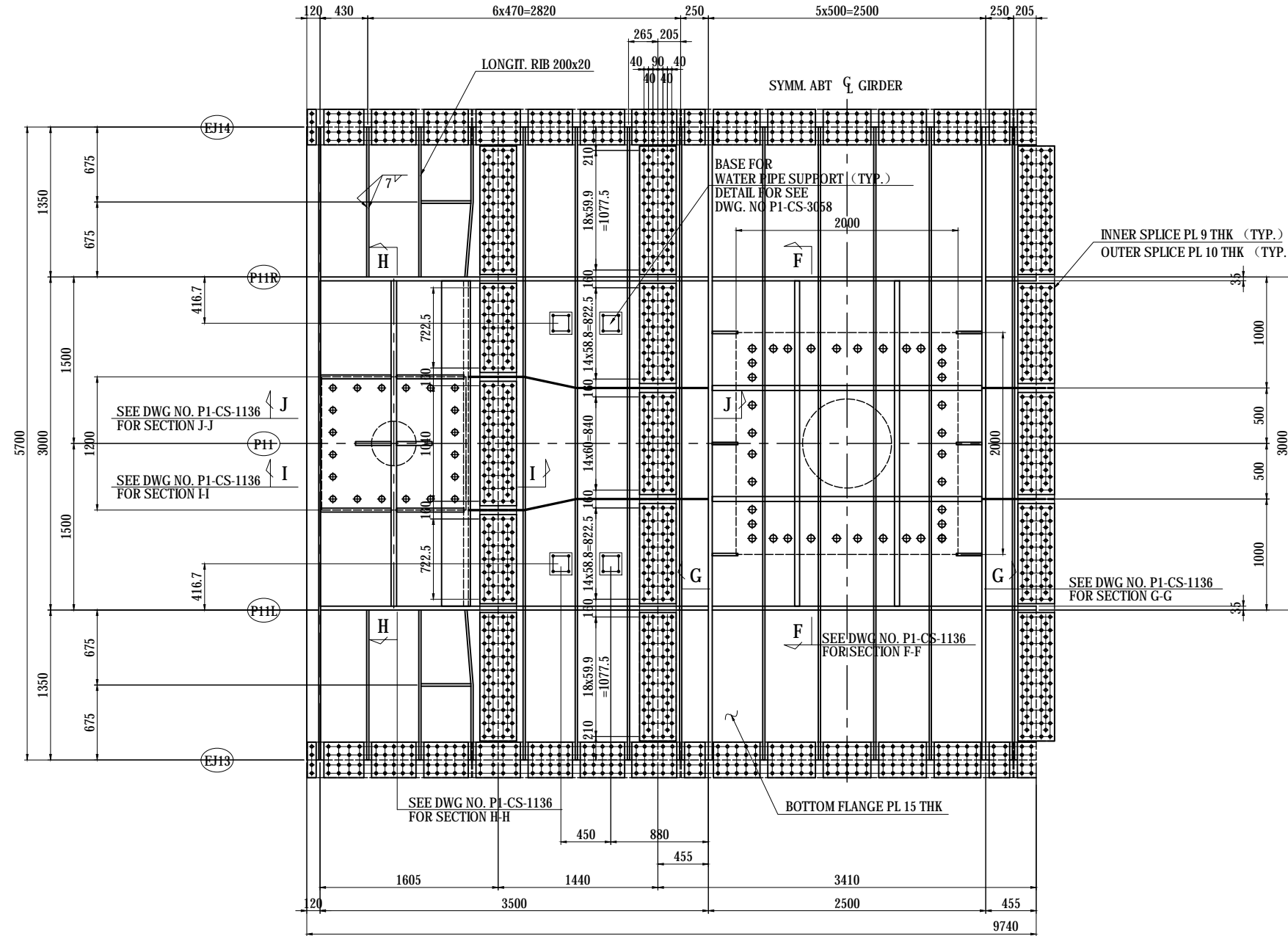
# MAIN GIRDER MIDDLE CROSS BEAM (4)

S=1:50

- 2-SPL PL 1158 x 9 x 330 (SM490YA)
- 2-SPL PL 803 x 9 x 330 (SM490YA)
- 2-SPL PL 2075 x 10 x 330 (SM490YA)
- 1-SPL PL 1120 x 9 x 330 (SM490YA)
- 1-SPL PL 1190 x 10 x 330 (SM490YA)
- 254-TCB M22 x 70 (S10T)

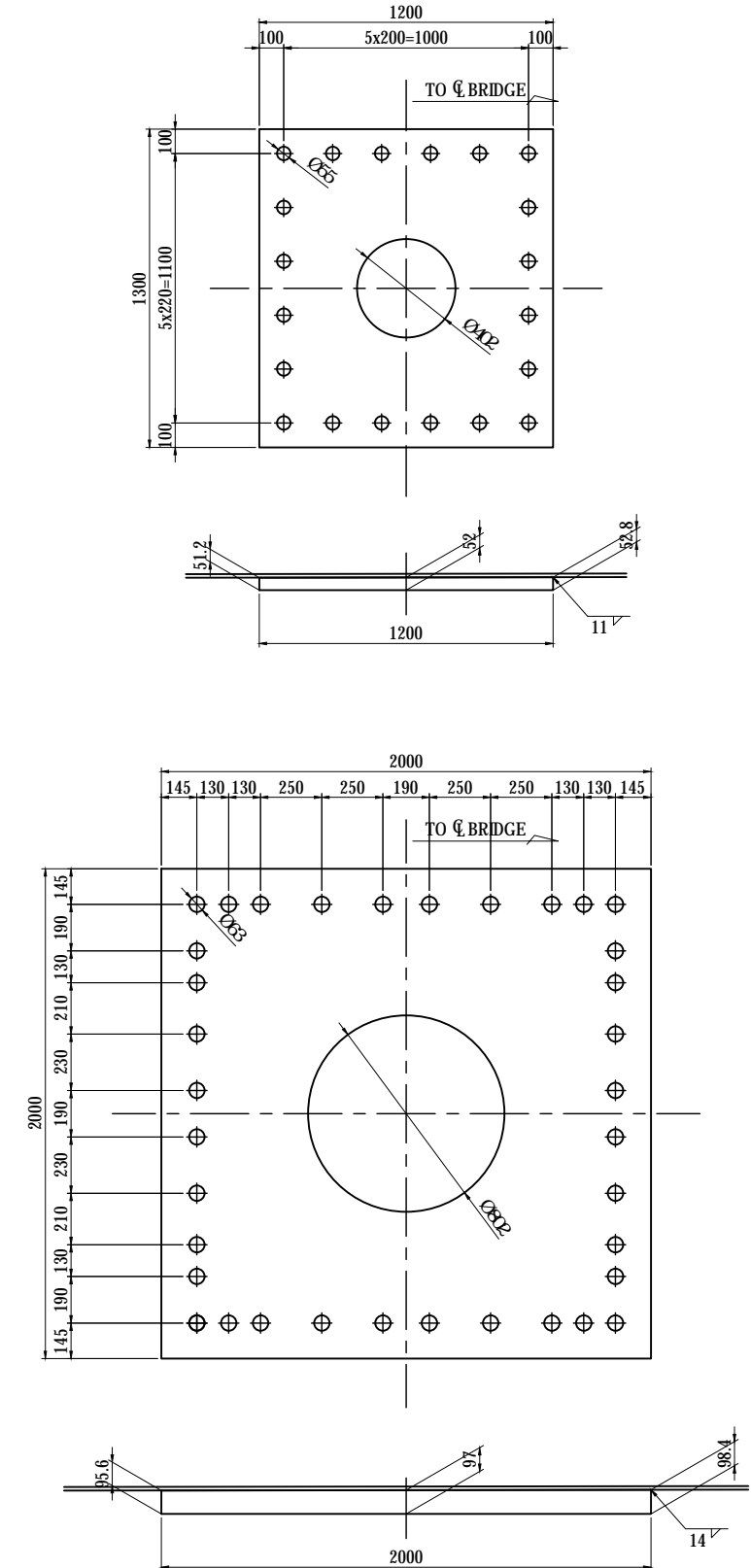
## BOTTOM FLANGE SECTION C-C

- 2-SPL PL 1158 x 9 x 330 (SM490YA)
- 2-SPL PL 903 x 9 x 330 (SM490YA)
- 2-SPL PL 2175 x 10 x 330 (SM490YA)
- 1-SPL PL 920 x 9 x 330 (SM490YA)
- 1-SPL PL 990 x 10 x 330 (SM490YA)
- 254-TCB M22 x 70 (S10T)



- 1-FLG PL 1725 x 15 x 5700 (SM490YA)
- 4-RIB PL 200 x 20 x 1345 (SM490YB)
- 2-RIB PL 200 x 20 x 1350 (SM490YB)
- 2-RIB PL 220 x 22 x 450 (SM490YB)
- 1-SOLE PL 1200 x 55 x 1300 (SM490C-H)
- 1-FLG PL 1440 x 15 x 5700 (SM490YA)
- 3-RIB PL 200 x 20 x 5690 (SM490YB)
- 1-FLG PL 3410 x 15 x 5700 (SM490YA)
- 6-RIB PL 200 x 20 x 5690 (SM490YB)
- 1-SOLE PL 2000 x 101 x 2000 (SM490C-H)

## SOLE PL DETAIL S=1:30

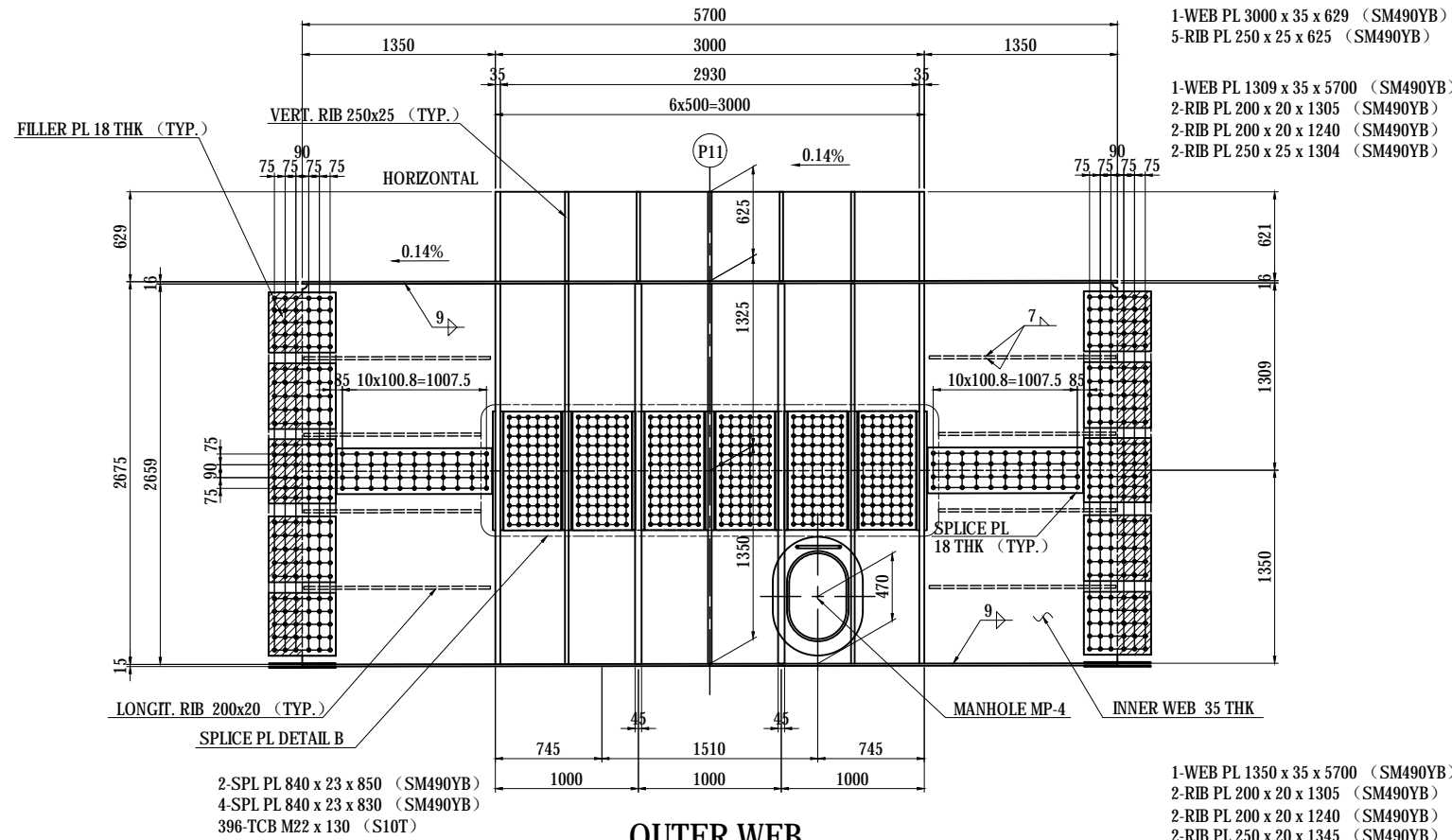


|   |  |   |  |             |             |      |   |                                       |              |
|---|--|---|--|-------------|-------------|------|---|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER<br>MIDDLE CROSS BEAM (4) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1134 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |   |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |   |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |   |                                       | 29. Nov.2017 |

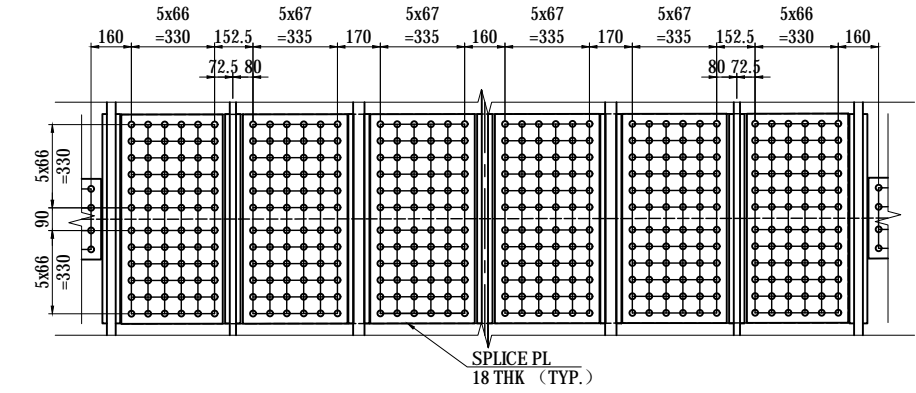
# MAIN GIRDER MIDDLE CROSS BEAM (5)

S=1:50

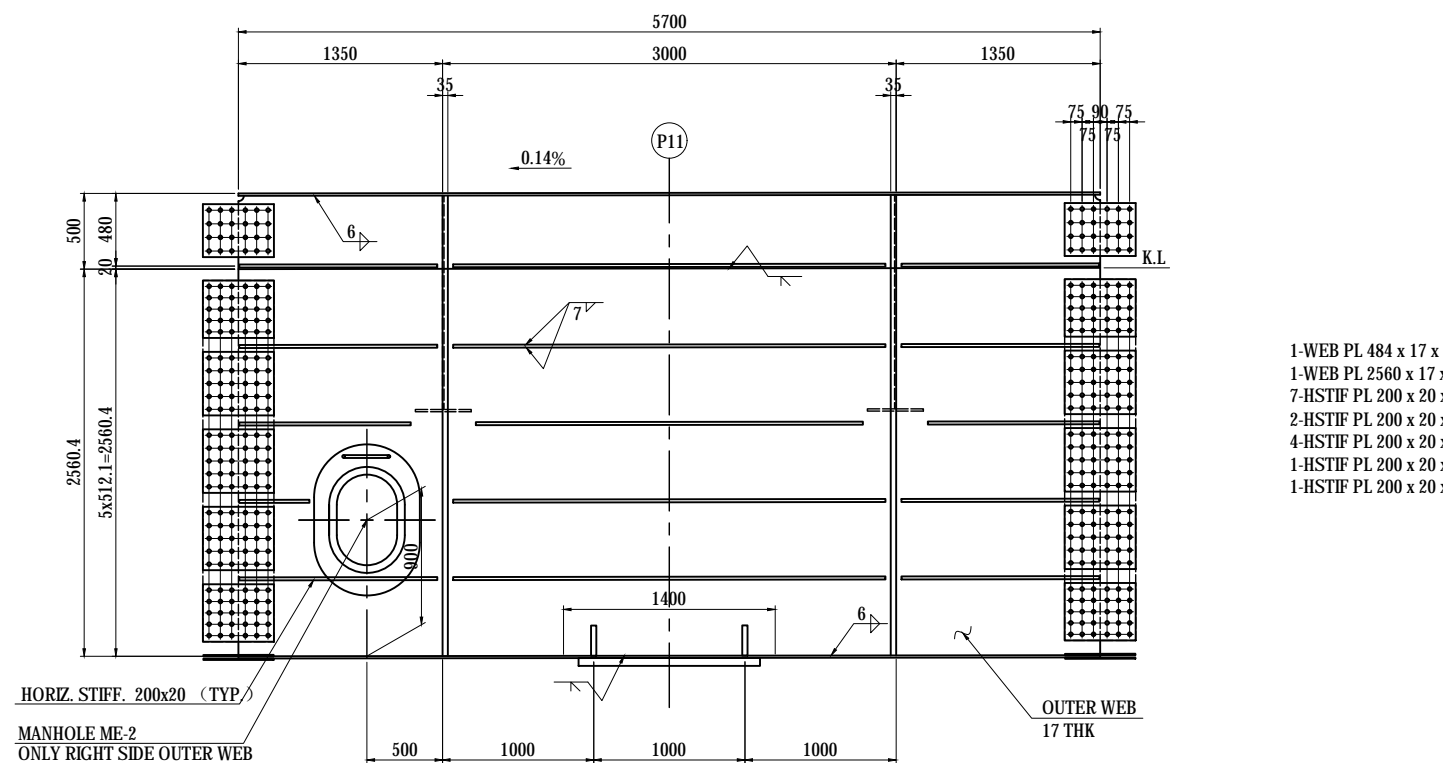
## INNER WEB SECTION D-D



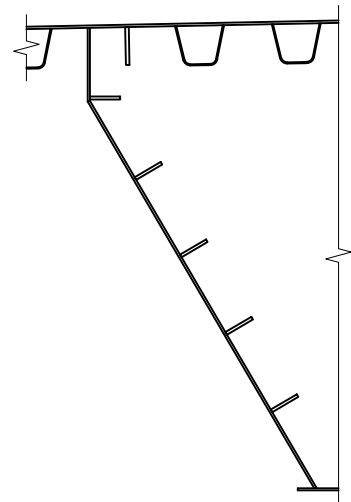
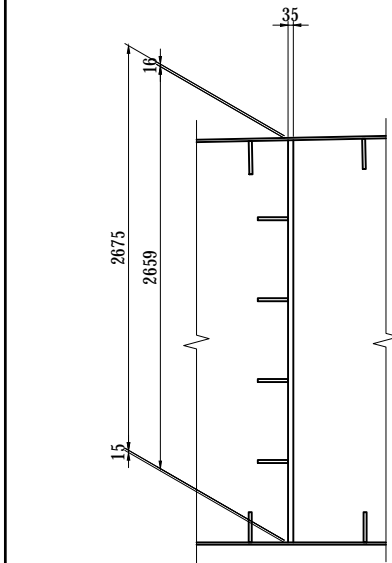
## SPLICE PL DETAIL B S=1:30



## OUTER WEB DEV. SECTION E-E



- 1-WEB PL 484 x 17 x 5700 (SM490YB)  
1-WEB PL 2560 x 17 x 5700 (SM490YB)  
7-HSTIF PL 200 x 20 x 1310 (SM490YB)  
2-HSTIF PL 200 x 20 x 1135 (SM490YB)  
4-HSTIF PL 200 x 20 x 2860 (SM490YB)  
1-HSTIF PL 200 x 20 x 2560 (SM490YB)  
1-HSTIF PL 200 x 20 x 465 (SM490YB)



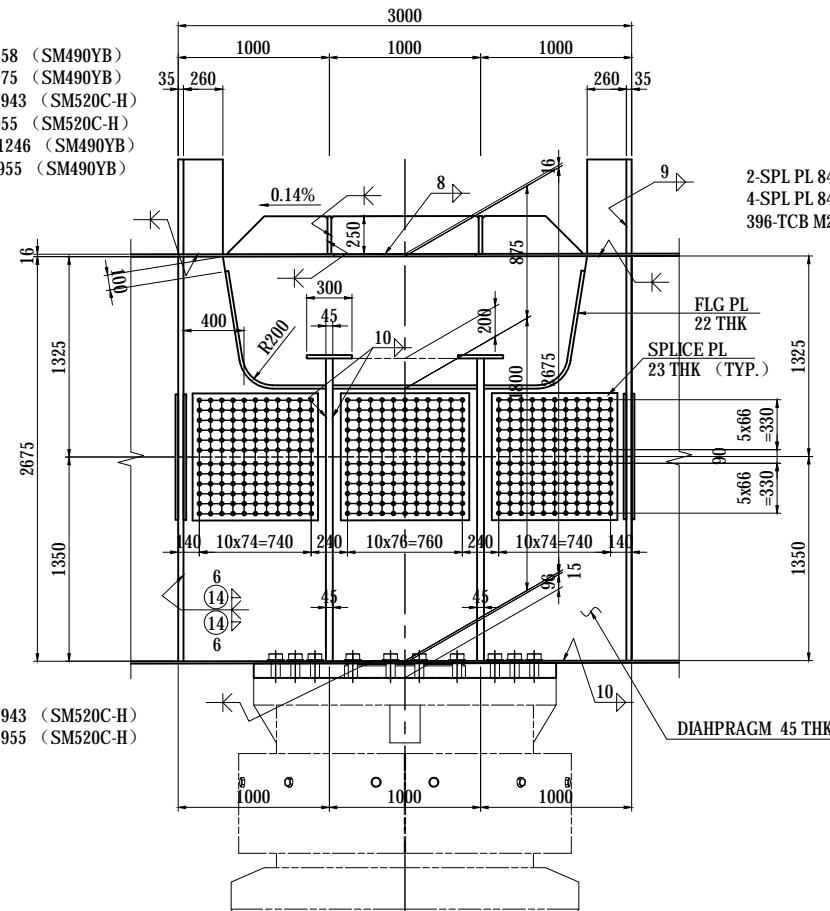
| PROJECT NAME  | FINANCED BY                                 | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE | DATE          | DRAWING TITLE                     | PACKAGE    |
|---|---|--|---|-------------|-----------|---------------|-----------------------------------|------------|
| DETAILED 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 | MAIN GIRDER MIDDLE CROSS BEAM (5) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov. 2017 |                                   | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov. 2017 |                                   | P1-CS-1135 |

# MAIN GIRDER MIDDLE CROSS BEAM (6)

S=1:50

## SECTION F-F

- 2-RIB PL 250 x 25 x 658 (SM490YB)
- 1-RIB PL 250 x 25 x 975 (SM490YB)
- 2-DIA PL 1325 x 45 x 943 (SM520C-H)
- 1-DIA PL 450 x 45 x 955 (SM520C-H)
- 2-FLG PL 300 x 22 x 1246 (SM490YB)
- 1-FLG PL 300 x 22 x 955 (SM490YB)

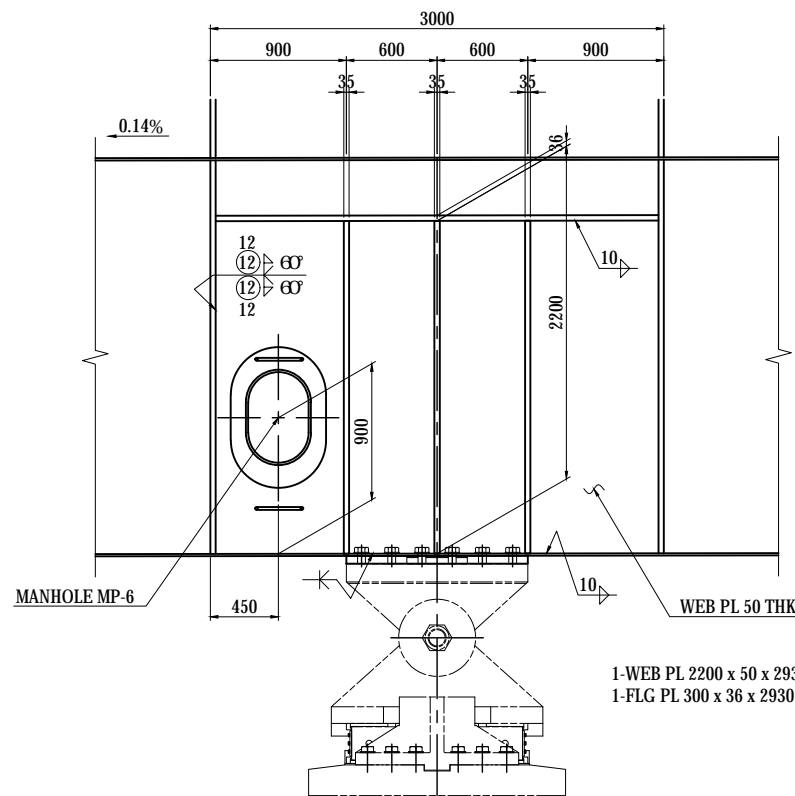


- 2-DIA PL 1350 x 45 x 943 (SM520C-H)
- 1-DIA PL 1350 x 45 x 955 (SM520C-H)

- 2-SPL PL 840 x 23 x 850 (SM490YB)
- 4-SPL PL 840 x 23 x 830 (SM490YB)
- 396-TCB M22 x 130 (S10T)

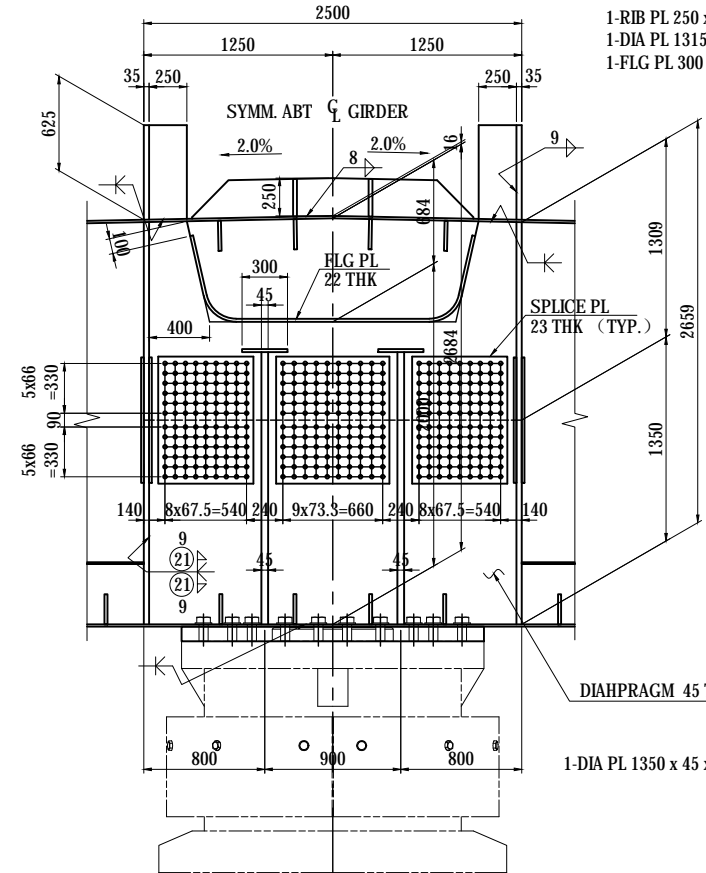
DIAHPRAGM 45 THK

## SECTION H-H



- 1-WEB PL 2200 x 50 x 2930 (SM570)
- 1-FLG PL 300 x 36 x 2930 (SM490YB)

## SECTION G-G



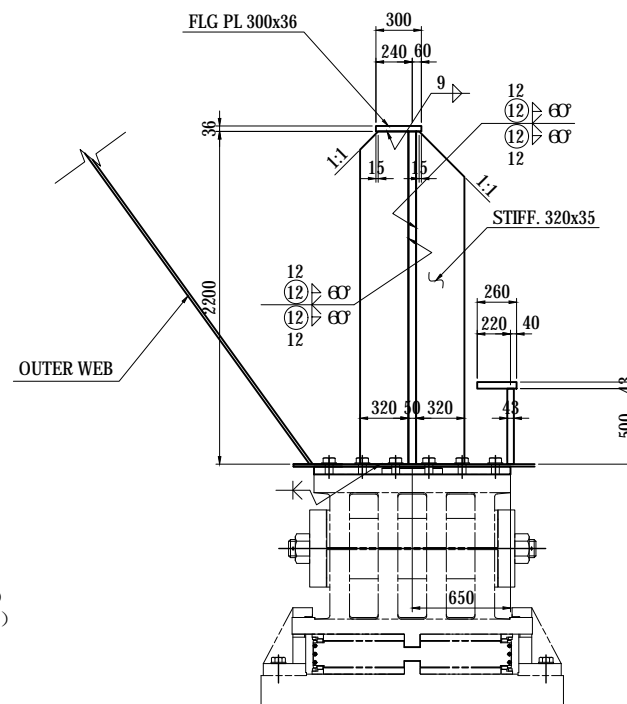
- 1-RIB PL 250 x 25 x 1860 (SM490YB)
- 1-DIA PL 1315 x 45 x 2430 (SM520C-H)
- 1-FLG PL 300 x 22 x 2655 (SM490YB)

- 2-SPL PL 840 x 23 x 750 (SM490YB)
- 4-SPL PL 840 x 23 x 630 (SM490YB)
- 336-TCB M22 x 130 (S10T)

- 1-DIA PL 1350 x 45 x 2430 (SM520C-H)

DIAHPRAGM 45 THK

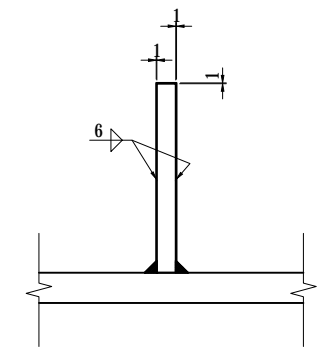
## SECTION I-I



- 2-STIF PL 320 x 35 x 2200 (SM570)
- 2-STIF PL 2200 x 35 x 778 (SM570)
- 2-STIF PL 2200 x 35 x 604 (SM570)
- 1-WEB PL 500 x 43 x 2930 (SM520C-H)
- 1-FLG PL 260 x 43 x 2930 (SM520C-H)

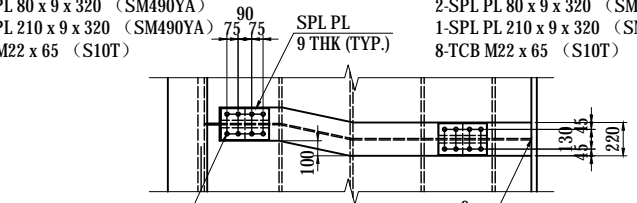
OUTER WEB

## DETAIL FOR SLIT S=1:10



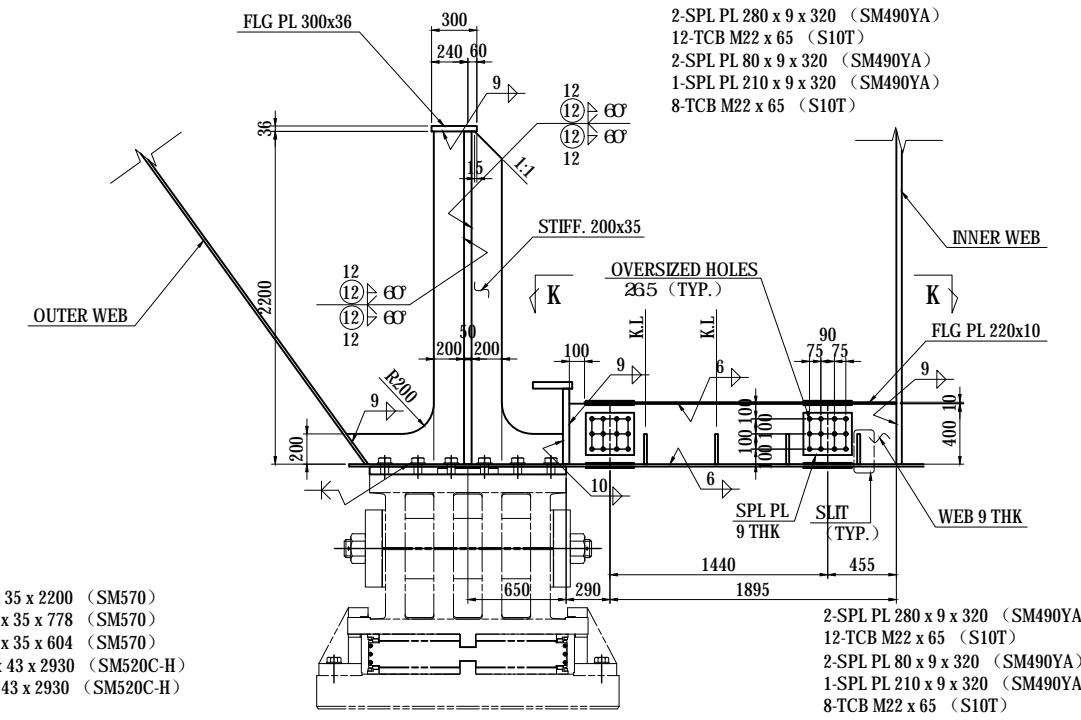
## SECTION K-K

- 2-SPL PL 280 x 9 x 320 (SM490YA)
- 12-TCB M22 x 65 (S10T)
- 2-SPL PL 80 x 9 x 320 (SM490YA)
- 1-SPL PL 210 x 9 x 320 (SM490YA)
- 8-TCB M22 x 65 (S10T)



- 1-WEB PL 400 x 9 x 269 (SM490YA)
- 1-FLG PL 220 x 10 x 169 (SM490YA)
- 2-WEB PL 400 x 9 x 1451 (SM490YA)
- 2-FLG PL 320 x 10 x 1440 (SM490YA)
- 2-WEB PL 400 x 9 x 455 (SM490YA)
- 2-FLG PL 220 x 10 x 455 (SM490YA)

## SECTION J-J



- 2-SPL PL 280 x 9 x 320 (SM490YA)
- 12-TCB M22 x 65 (S10T)
- 2-SPL PL 80 x 9 x 320 (SM490YA)
- 1-SPL PL 210 x 9 x 320 (SM490YA)
- 8-TCB M22 x 65 (S10T)

- 2-SPL PL 280 x 9 x 320 (SM490YA)
- 12-TCB M22 x 65 (S10T)
- 2-SPL PL 80 x 9 x 320 (SM490YA)
- 1-SPL PL 210 x 9 x 320 (SM490YA)
- 8-TCB M22 x 65 (S10T)

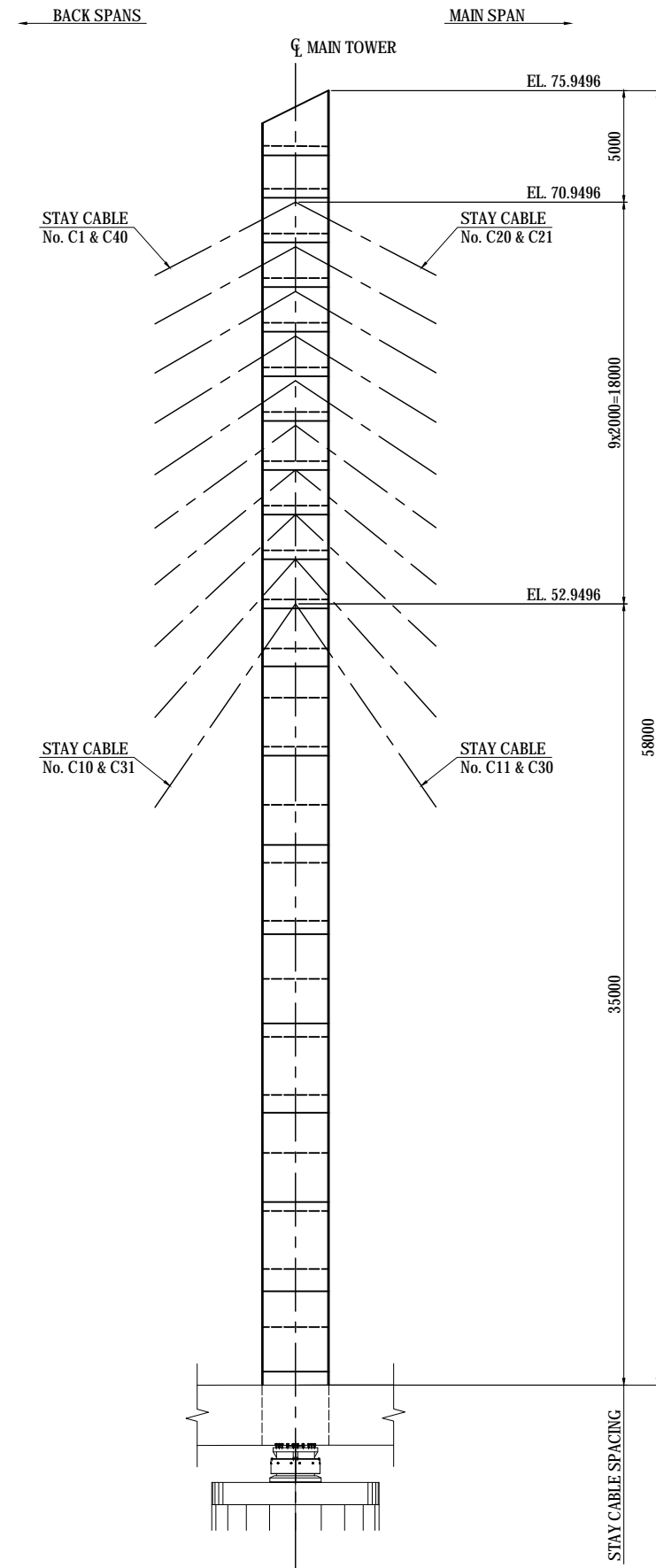
OUTER WEB

INNER WEB

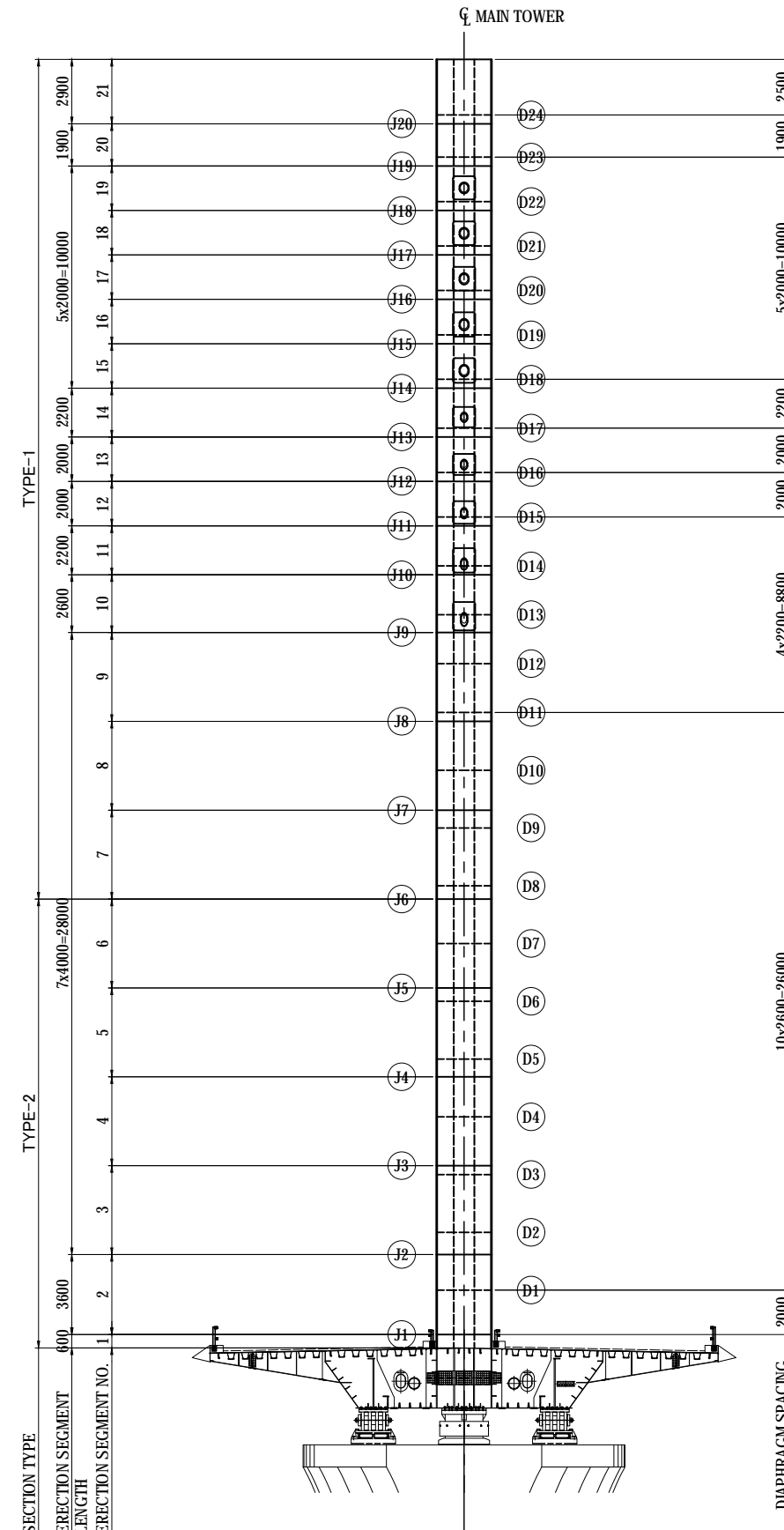
| PROJECT NAME  | FINANCED BY                                 | COUNTERPART  | JICA STUDY TEAM   | NAME                   | SIGNATURE | DATE         | DRAWING TITLE                     | PACKAGE    |
|---|---|--|---|------------------------|-----------|--------------|-----------------------------------|------------|
| 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 | MAIN GIRDER MIDDLE CROSS BEAM (6) | 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-1136 |

# GENERAL VIEW OF MAIN TOWER S=1:300

## SIDE ELEVATION

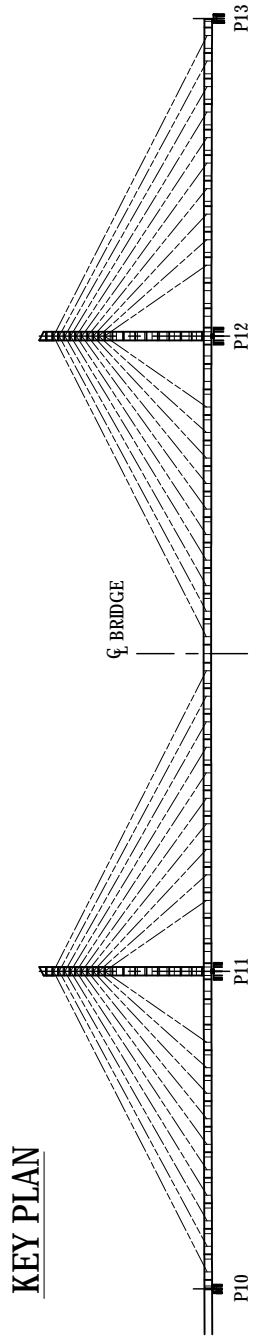


## FRONT ELEVATION



UNIT: mm

|             |             |
|-------------|-------------|
| STEEL GRADE | SM490Y      |
| FLANGE      | THK 2420x40 |
| VERT. RIB   | 2-280x27    |
| STEEL GRADE | SM490Y      |
| WEB         | THK 3000x40 |
| VERT. RIB   | 5-250x25    |



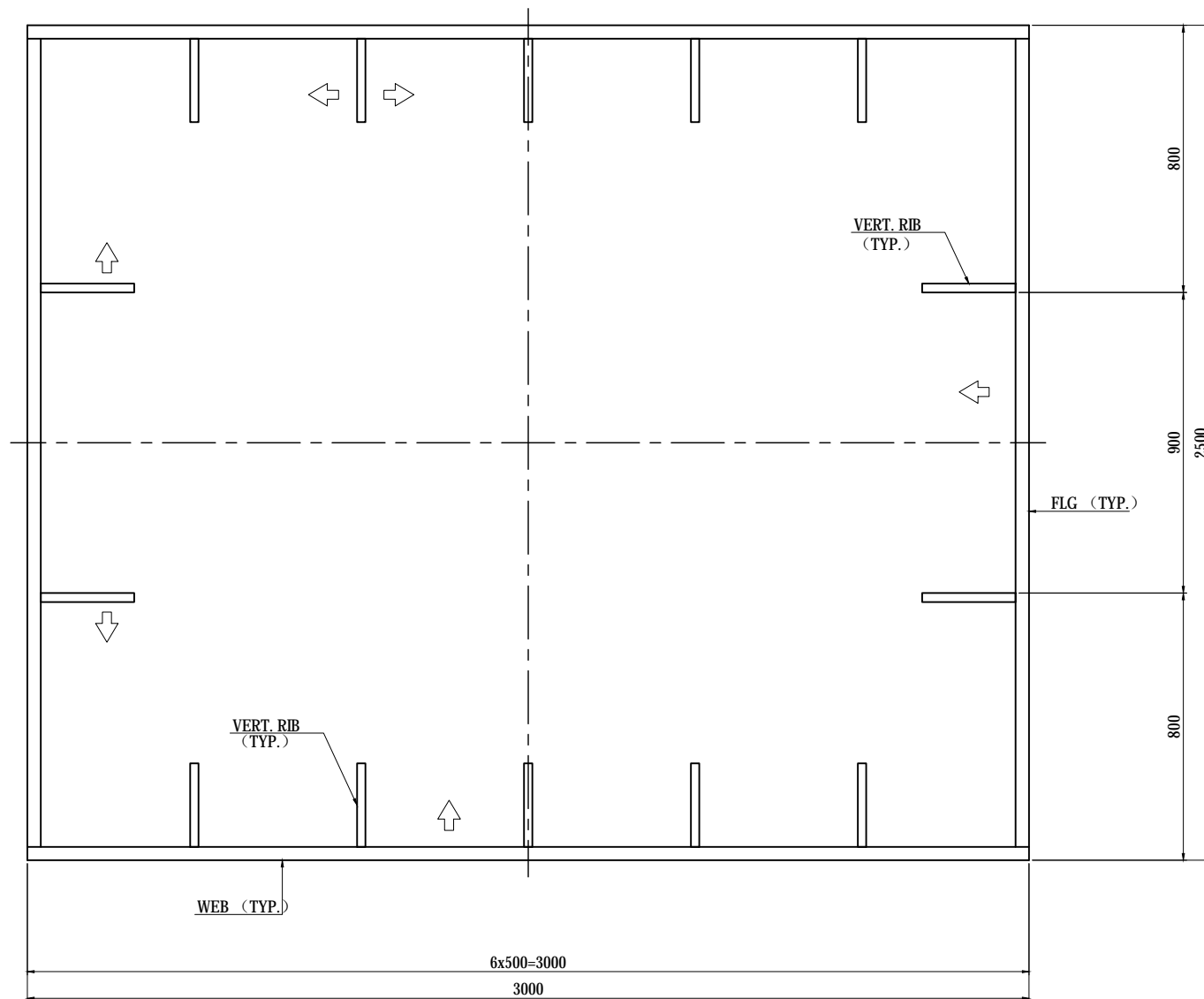
### KEY PLAN

**NOTES:**  
 1 - MAIN TOWER P11 IS SHOWN, MAIN TOWER P12 IS SIMILAR AND LOCATED AT OPPOSITE HAND.

# DETAIL OF MAIN TOWER STANDARD (1) S=1:20

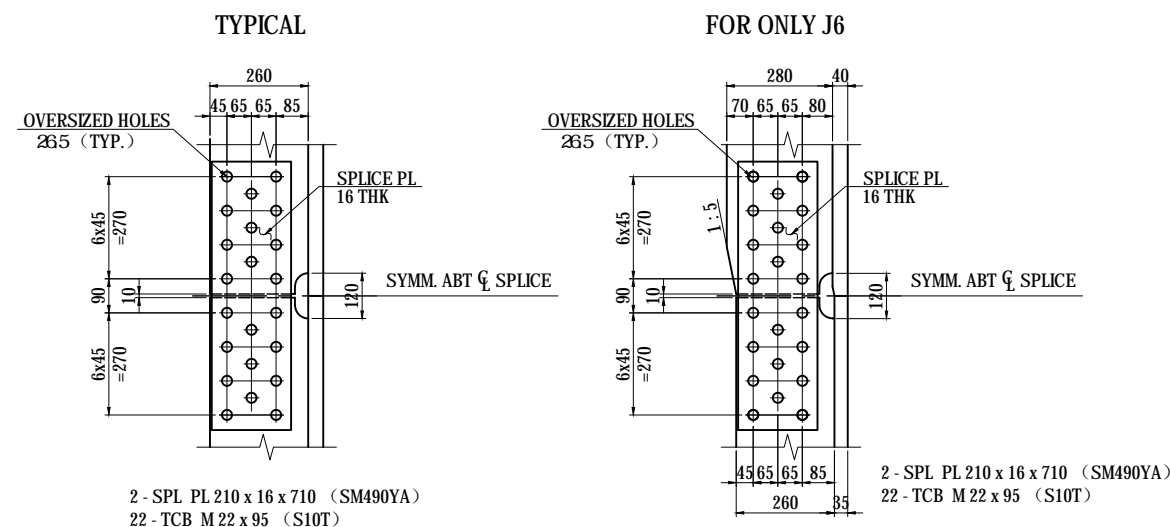
**NOTES:**  
1 - ⇄ DIRECTION

**TYPICAL SECTION**

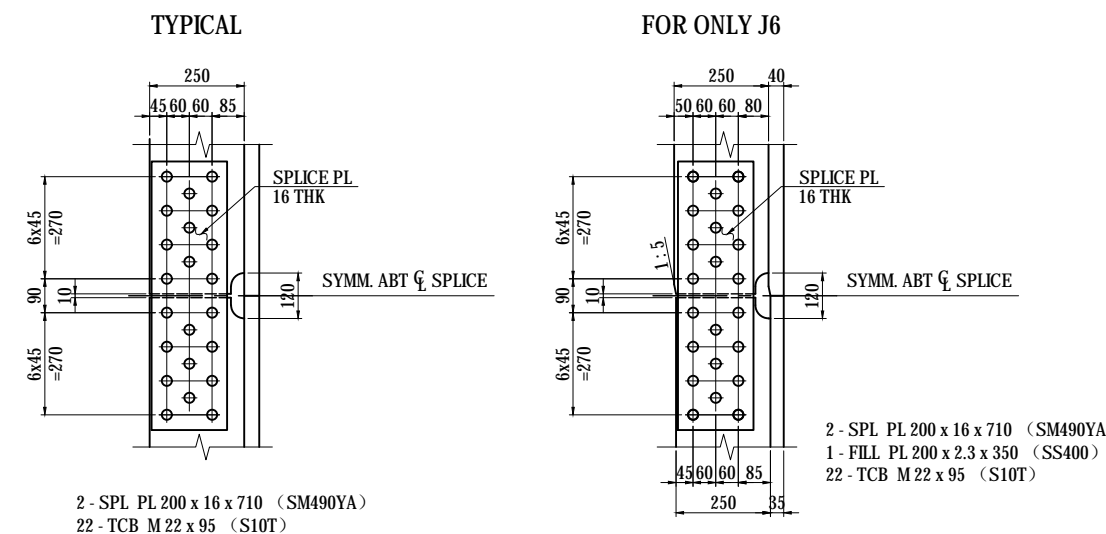


**SPLICE DETAILS**

@ 260x25

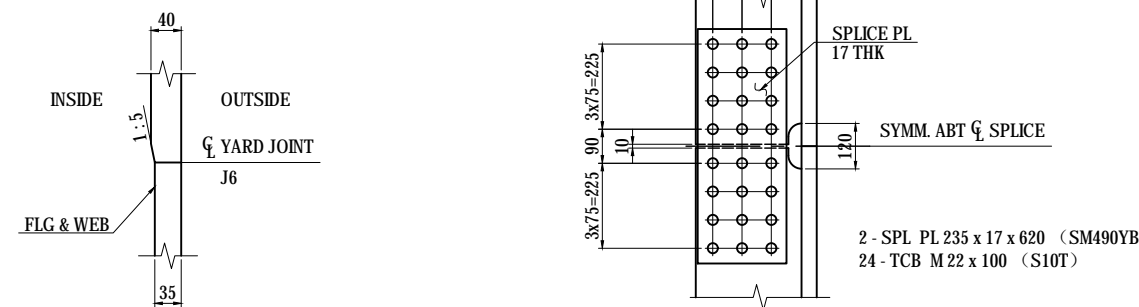


@ 250x25

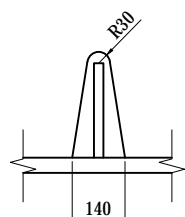


@ 280x27

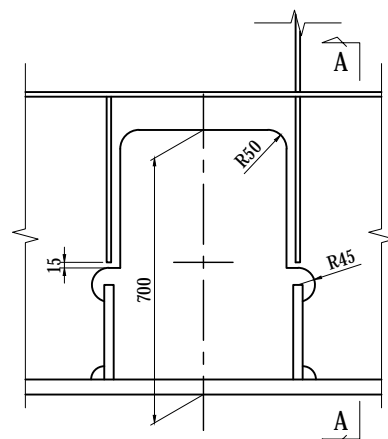
**DETAIL FOR DIFFERENT THICKNESS S=1:10**



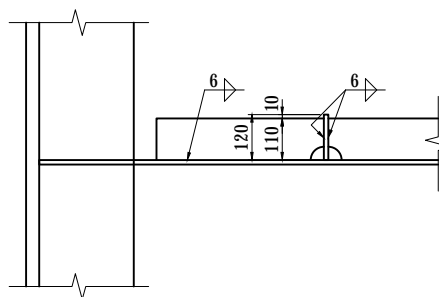
**SCALLOP DETAIL**



**HOLE FOR LADDER**



**SECTION A-A**

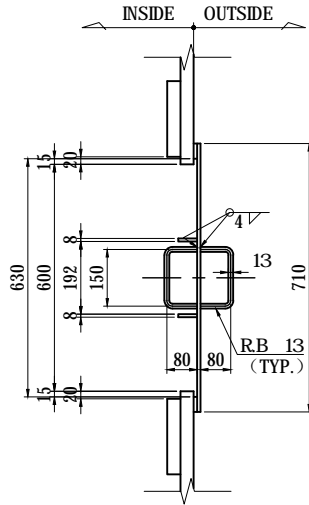
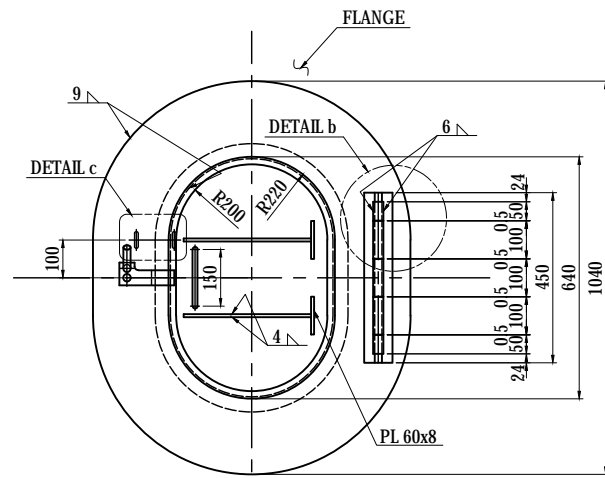


| PROJECT NAME  | FINANCED BY                                 | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE | DATE          | DRAWING TITLE                     | PACKAGE    |
|---|---|--|---|-------------|-----------|---------------|-----------------------------------|------------|
| DETAILED 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 | DETAIL OF MAIN TOWER STANDARD (1) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 和寿     | 28. Nov. 2017 |                                   | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov. 2017 |                                   | P1-CS-1202 |

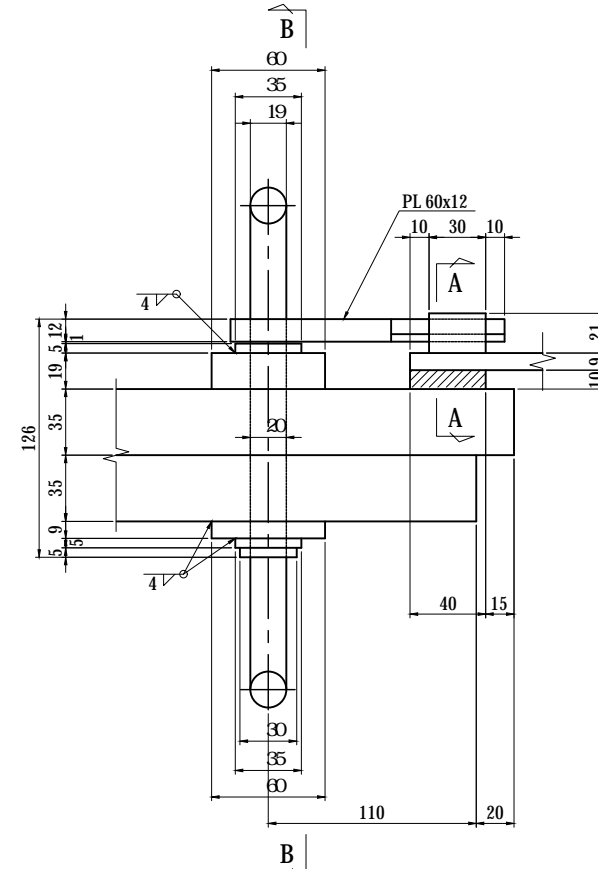
# DETAIL OF MAIN TOWER STANDARD (2) S=1:20

## ACCESS HATCH TYPE-1

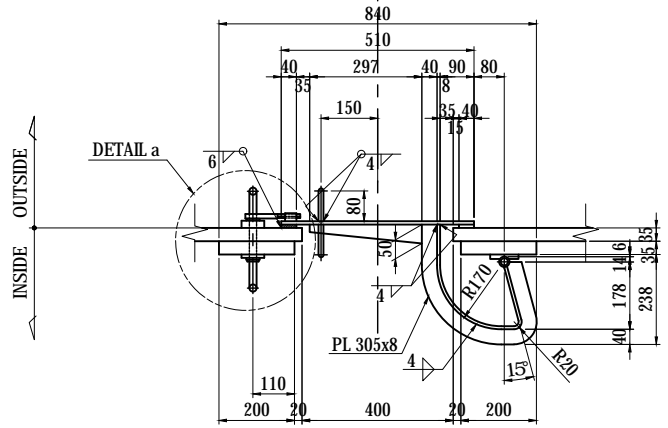
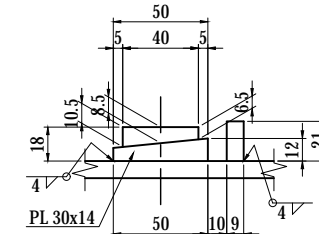
- 1 - PL 840 x 35 x 1040 (SM490YB)
- 1 - RUBBER 510 x 10 x 710 (POLYCHLOROPRENE)
- 1 - PL 510 x 9 x 710
- 2 - PL 305 x 8 x 317
- 2 - PL 60 x 8 x 577
- 2 - PL 50 x 8 x 297
- 2 - PIPE 20A x 50 (SGP)
- 3 - PIPE 20A x 100 (SGP)
- 1 - RB 19x450
- 2 - RB 13x310
- 1 - PL 60x19
- 1 - PL 60x9
- 2 - PL 35x5 (SUS304)
- 1 - PL 30x5 (SUS304)
- 1 - RB 19x305 (SUS304)
- 1 - RB 19x135 (SUS304)
- 1 - PL 60 x 12 x 160 (SUS304)
- 1 - PL 30 x 14 x 50 (SUS304)
- 1 - PL 21 x 9 x 30
- 2 - FB 75 x 12 x 450
- 2 - RB 10x105 (SS400)
- 1 - CHAIN 6x420 (SUS304)
- 1 - PADLOCK



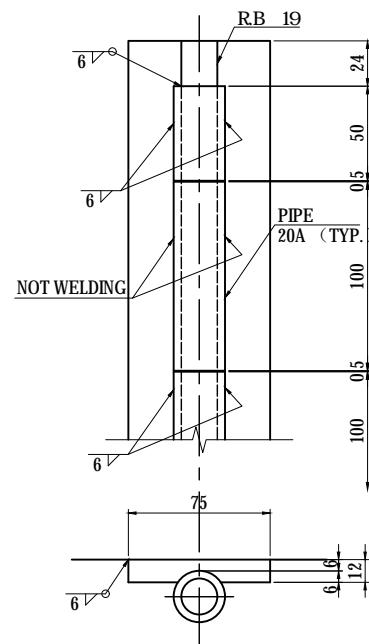
DETAIL a S=1:4



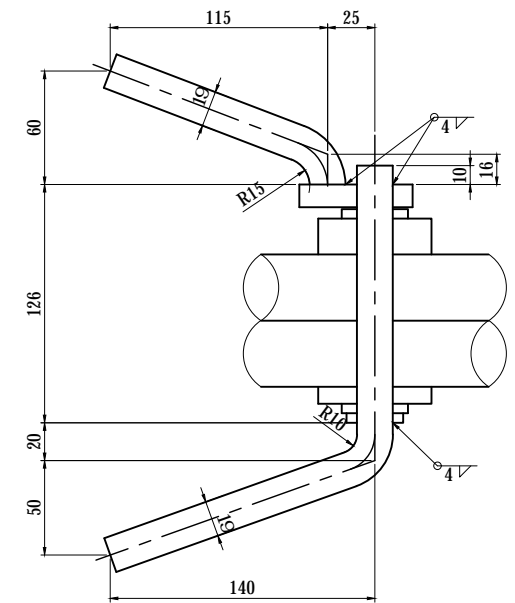
SECTION A-A S=1:4



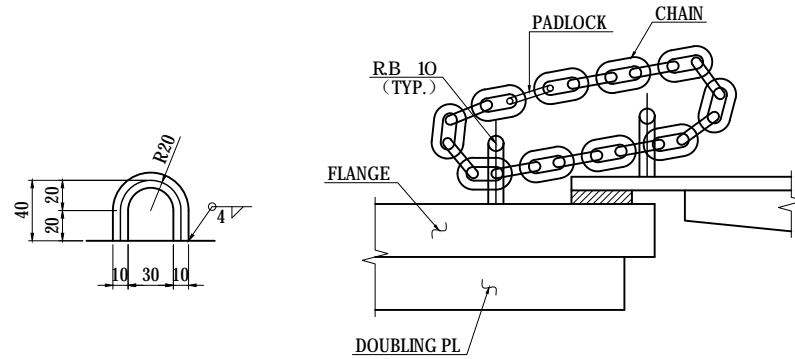
DETAIL b S=1:4



SECTION B-B S=1:4



DETAIL c S=1:5



**NOTES:**

- 1 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SS400

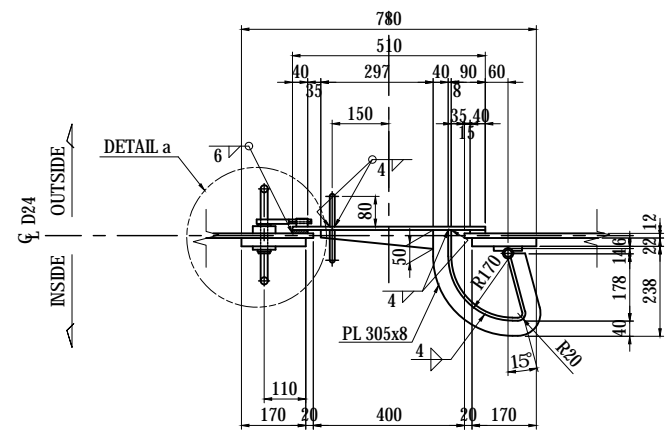
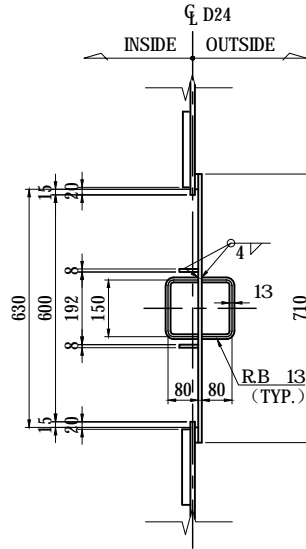
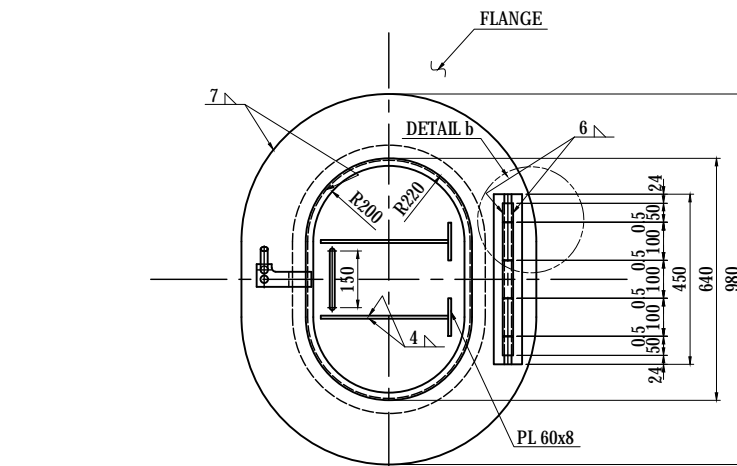
|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>DETAIL OF MAIN TOWER STANDARD (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-1203 |



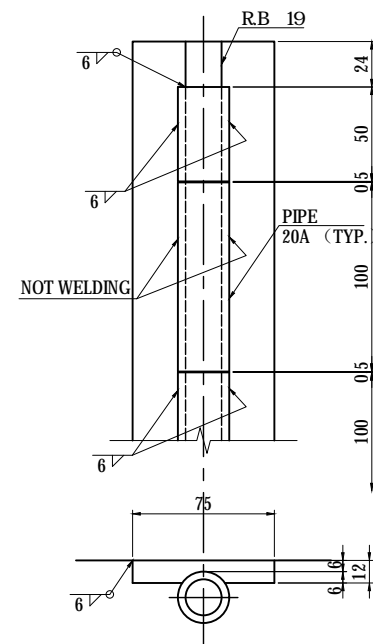
# DETAIL OF MAIN TOWER STANDARD (3) S=1:20

## ACCESS HATCH TYPE-2

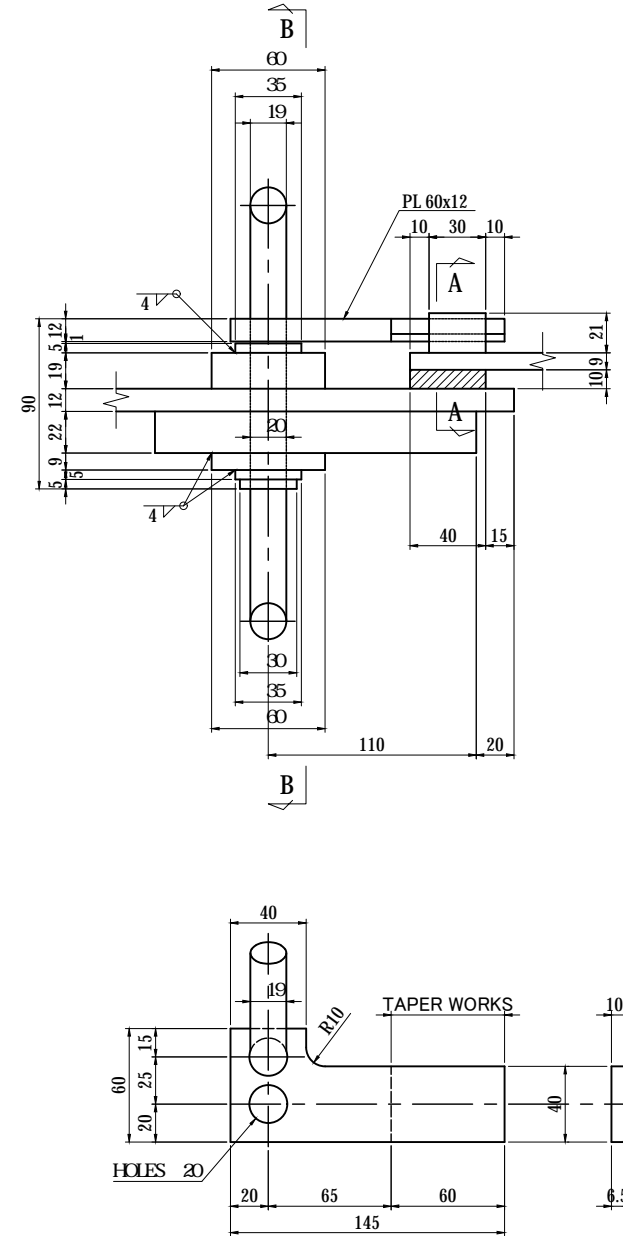
- 1 - PL 780 x 22 x 980 (SM490YB)
- 1 - RUBBER 510 x 10 x 710 (POLYCHLOROPRENE)
- 1 - PL 510 x 9 x 710
- 2 - PL 305 x 8 x 281
- 2 - PL 60 x 8 x 520
- 2 - PL 50 x 8 x 297
- 2 - PIPE 20A x 50 (SGP)
- 3 - PIPE 20A x 100 (SGP)
- 1 - RB 19x4E0
- 2 - RB 13x3I0
- 1 - PL 60x19
- 1 - PL 60x9
- 2 - PL 35x5 (SUS304)
- 1 - PL 30x5 (SUS304)
- 1 - RB 19x2E0 (SUS304)
- 1 - RB 19x135 (SUS304)
- 1 - PL 60 x 12 x 160 (SUS304)
- 1 - PL 30 x 14 x 50 (SUS304)
- 1 - PL 21 x 9 x 30
- 2 - FB 75 x 12 x 450



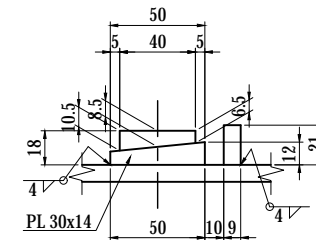
DETAIL b S=1:4



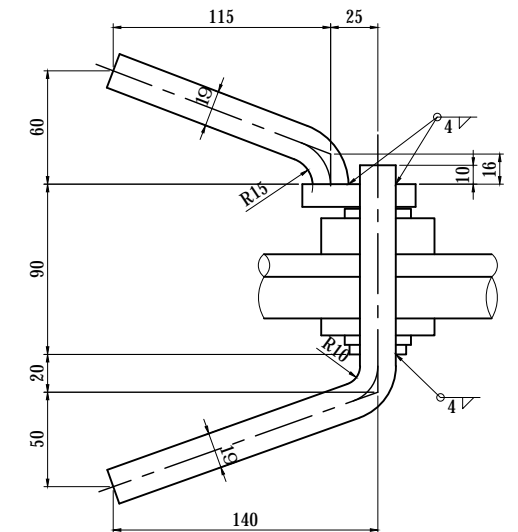
DETAIL a S=1:4



SECTION A-A S=1:4



SECTION B-B S=1:4



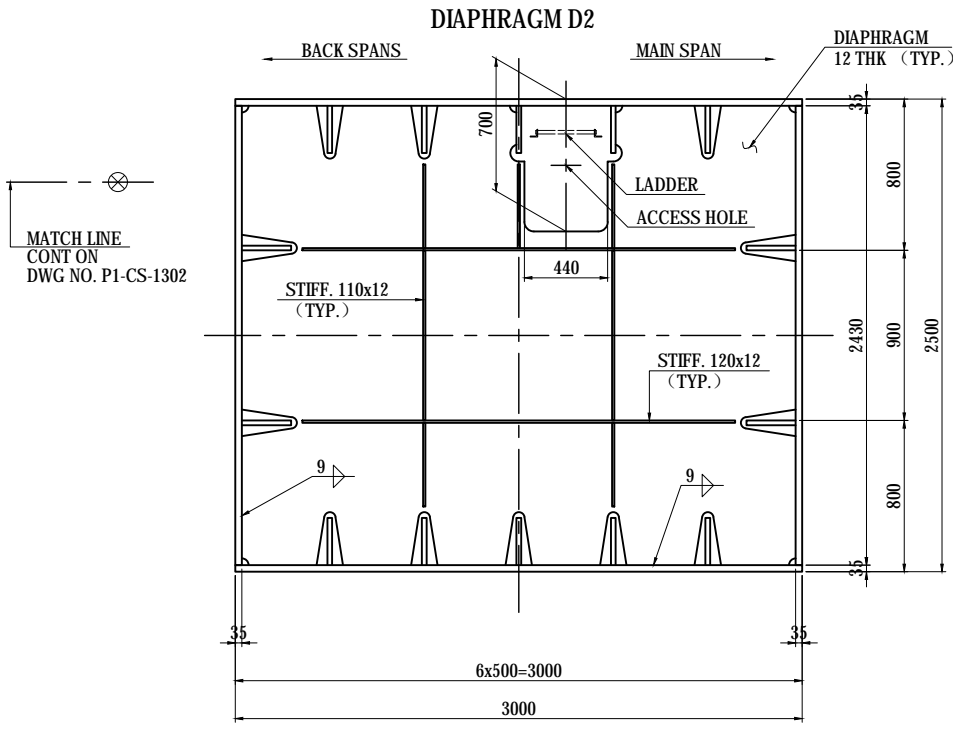
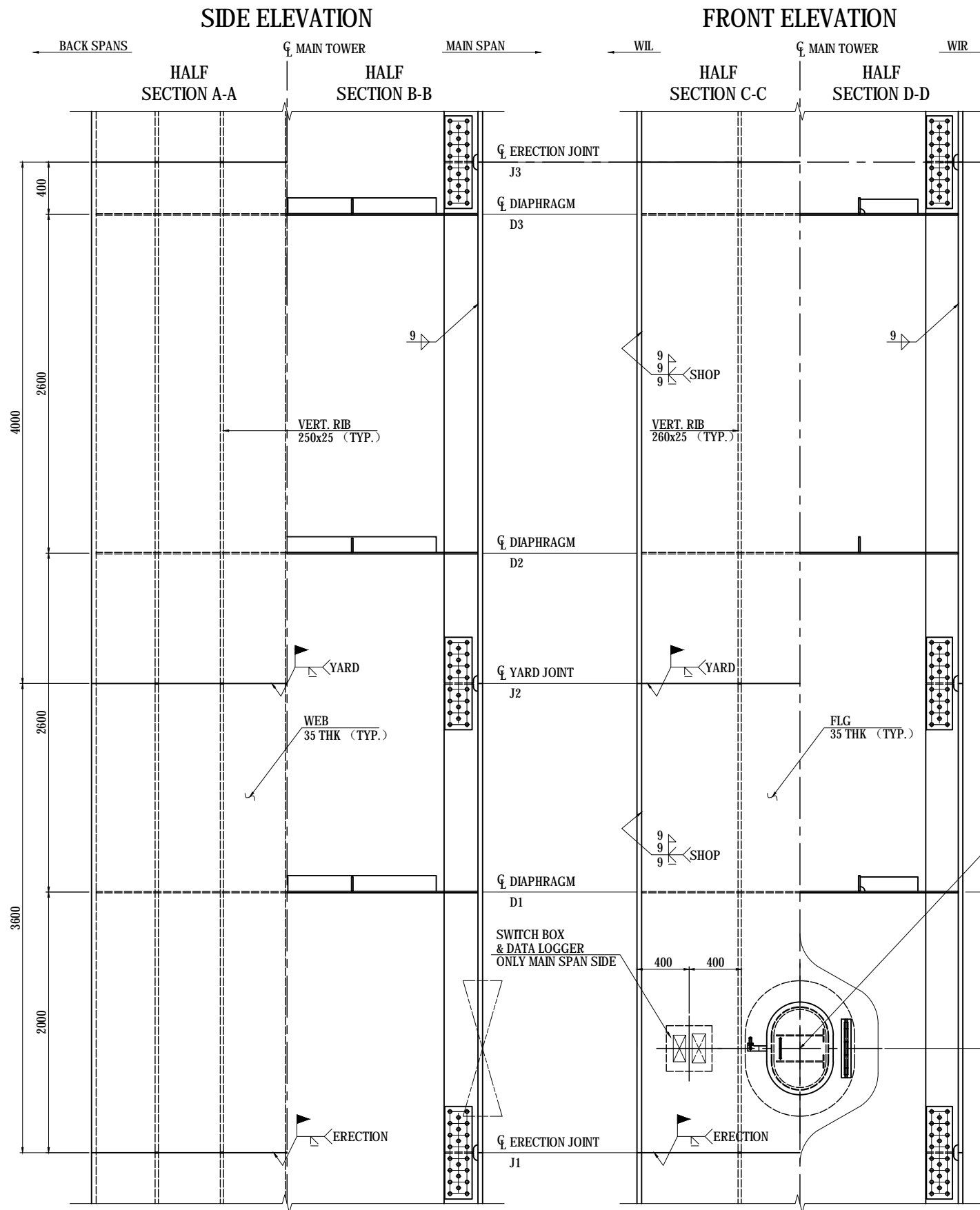
### NOTES:

1 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SS400

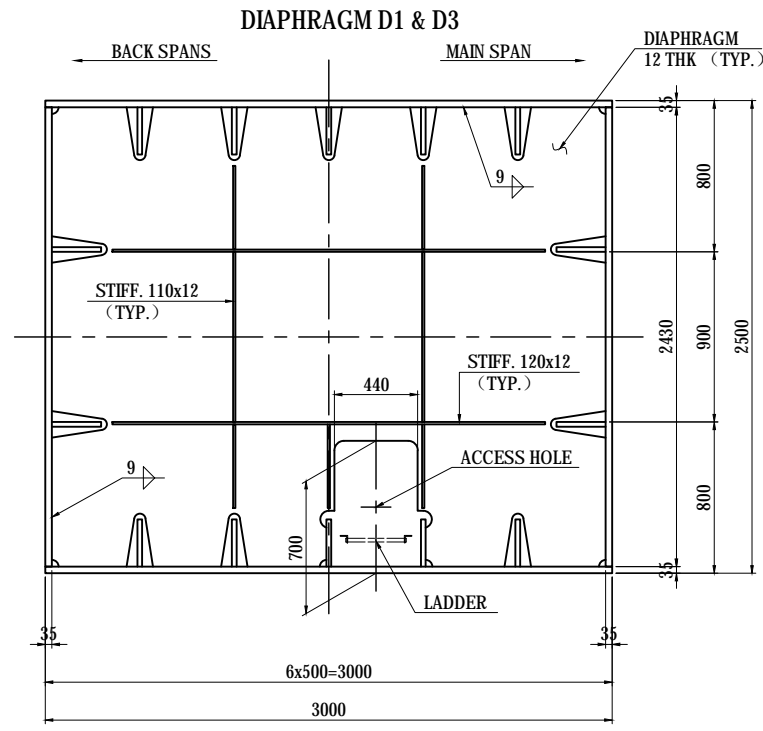
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|---|---|---|--|--|--------------------------------------|--|--|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>jica JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>T.TOMODA<br>T. HAYAKAWA<br>Y. SANO | SIGNATURE<br>友田 智雄<br>平川 知平<br>佐野 祐一 | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br>DETAIL OF MAIN TOWER STANDARD (3) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1204 |
|---|---|---|--|--|--------------------------------------|--|--|---------------------------------------|

# DETAIL OF MAIN TOWER (1) S=1:40

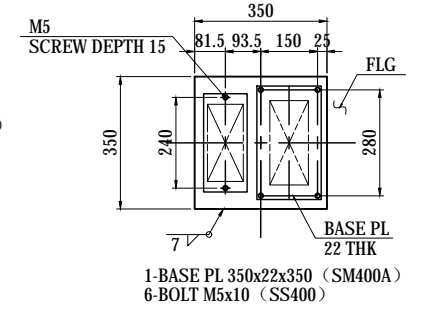
# BASE OF SWITCH BOX & DATA LOGGER DETAIL S=1:20



- 2-WEB PL 3000x35x4000 (SM490YB)
- 10-RIB PL 250x25x3990 (SM490YB)
- 2-FLG PL 2430x35x4000 (SM490YB)
- 4-RIB PL 260x25x3990 (SM490YB)
- 1-DIA PL 2930x12x2430 (SM490YA)
- 2-STIFF PL 120x12x2290 (SM400A)
- 2-STIFF PL 110x12x900 (SM400A)
- 5-STIFF PL 110x12x443 (SM400A)

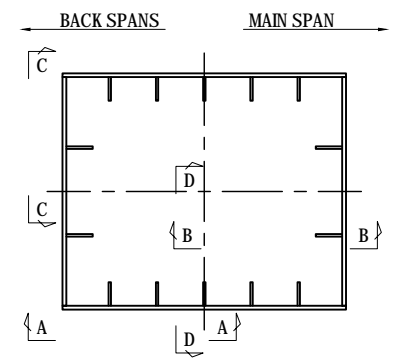


- 2-WEB PL 3000x35x3600 (SM490YB)
- 10-RIB PL 250x25x3590 (SM490YB)
- 2-FLG PL 2430x35x3600 (SM490YB)
- 4-RIB PL 260x25x3590 (SM490YB)
- 1-DIA PL 2930x12x2430 (SM490YA)
- 2-STIFF PL 120x12x2290 (SM400A)
- 2-STIFF PL 110x12x900 (SM400A)
- 5-STIFF PL 110x12x443 (SM400A)



- 1-BASE PL 350x22x350 (SM400A)
- 6-BOLT M5x10 (SS400)

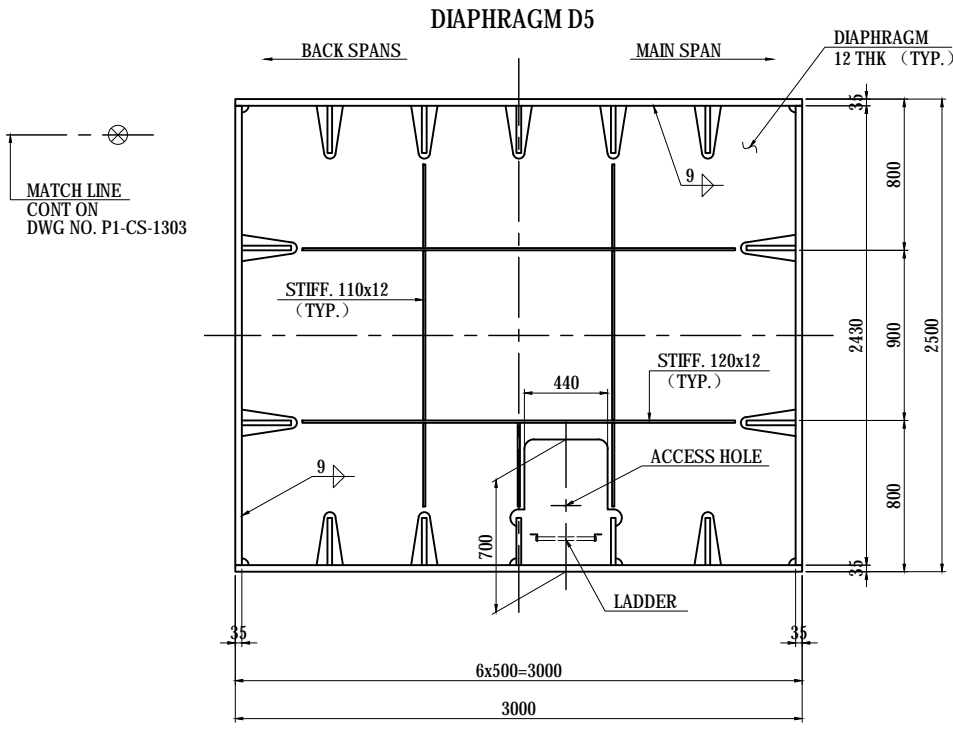
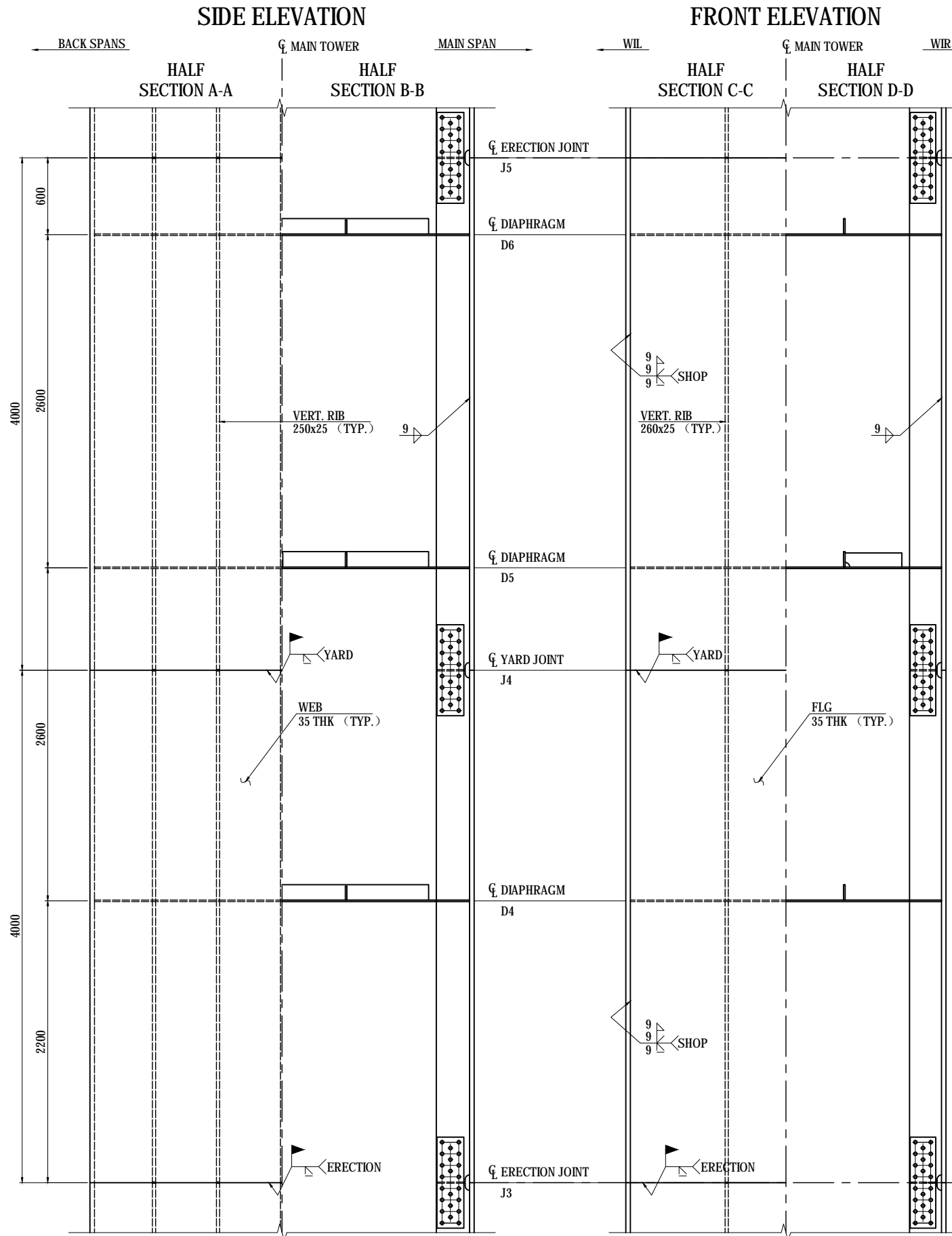
△ ADJUST BOLT HOLES DIAMETER AND POSITION ACCORDING TO THE TYPE OF DEVICE INSTALLED.



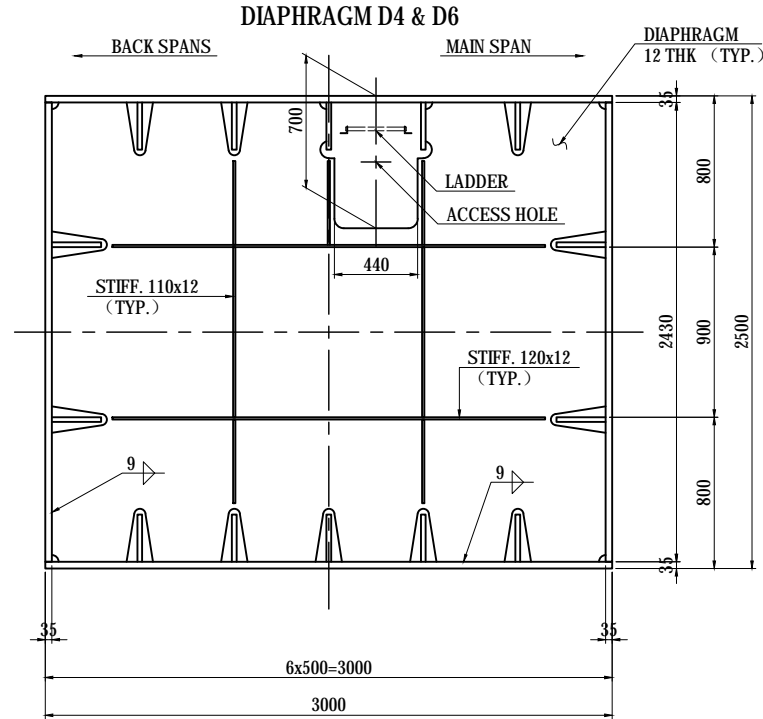
## KEY DIAGRAM

|   |  |   |  |             |             |       |               |            |              |
|---|--|---|--|-------------|-------------|-------|---------------|------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE | PACKAGE    |              |
|   |  |   |  | 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 隆一 |               |            | 29. Nov.2017 |
| DETAIL OF MAIN TOWER (1)  |  |   |  |             |             |       | 1             | P1-CS-1301 |              |

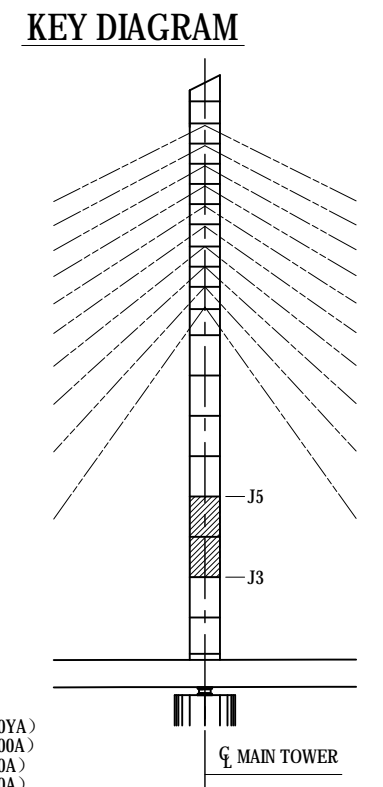
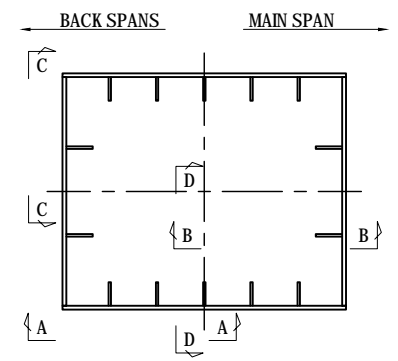
# DETAIL OF MAIN TOWER (2) S=1:40



- 2-WEB PL 3000x35x4000 (SM490YB)
- 10-RIB PL 250x25x3990 (SM490YB)
- 2-FLG PL 2430x35x4000 (SM490YB)
- 4-RIB PL 260x25x3990 (SM490YB)
- 1-DIA PL 2930x12x2430 (SM490YA)
- 2-STIFF PL 120x12x2290 (SM400A)
- 2-STIFF PL 110x12x900 (SM400A)
- 5-STIFF PL 110x12x443 (SM400A)

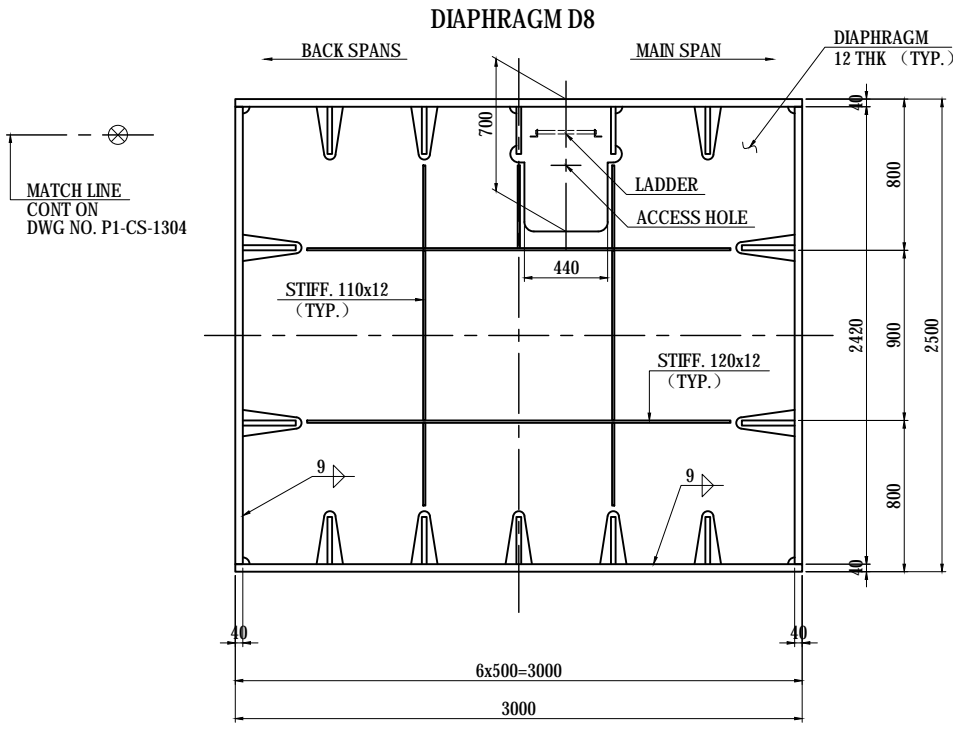
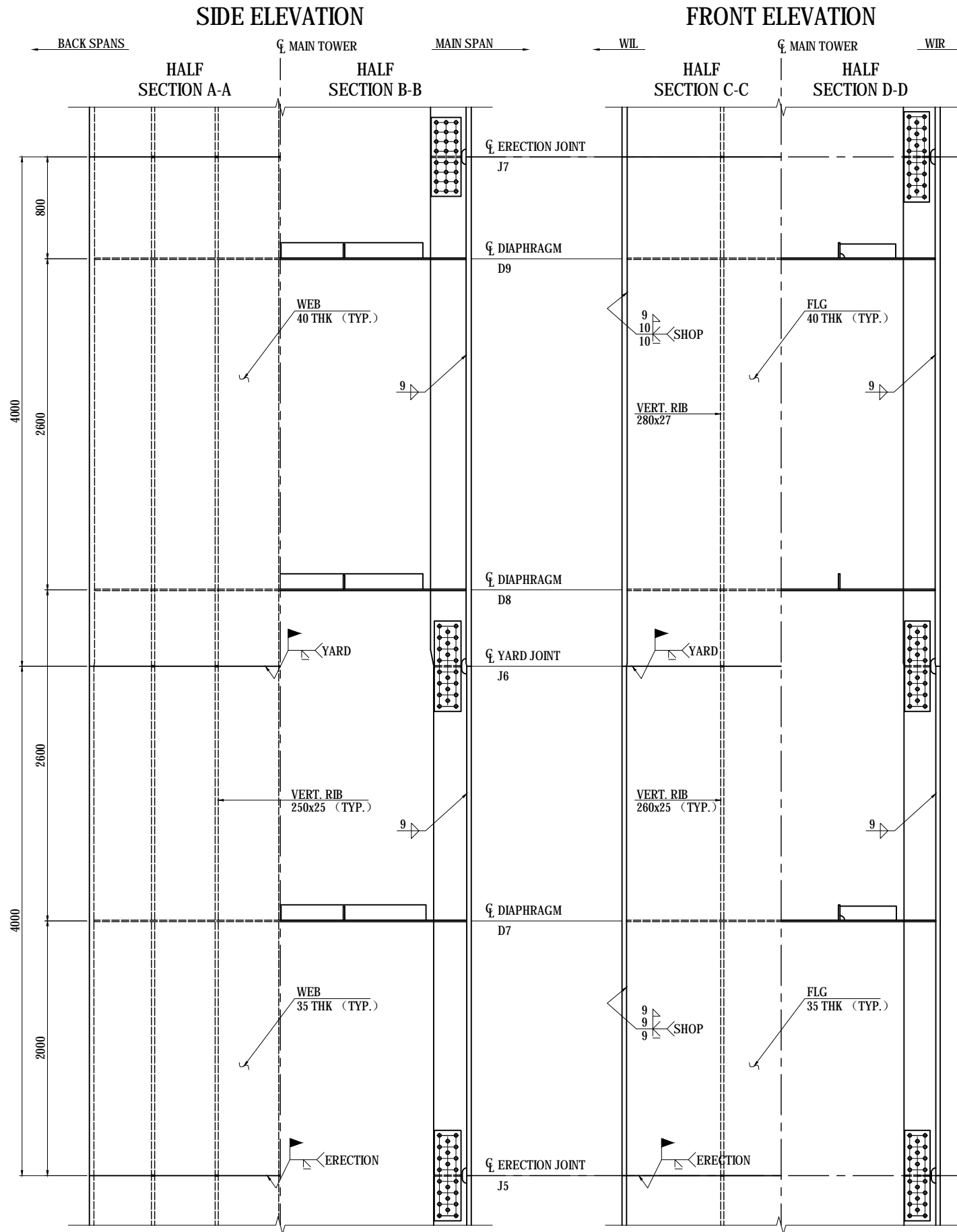


- 2-WEB PL 3000x35x4000 (SM490YB)
- 10-RIB PL 250x25x3990 (SM490YB)
- 2-FLG PL 2430x35x4000 (SM490YB)
- 4-RIB PL 260x25x3990 (SM490YB)
- 1-DIA PL 2930x12x2430 (SM490YA)
- 2-STIFF PL 120x12x2290 (SM400A)
- 2-STIFF PL 110x12x900 (SM400A)
- 5-STIFF PL 110x12x443 (SM400A)

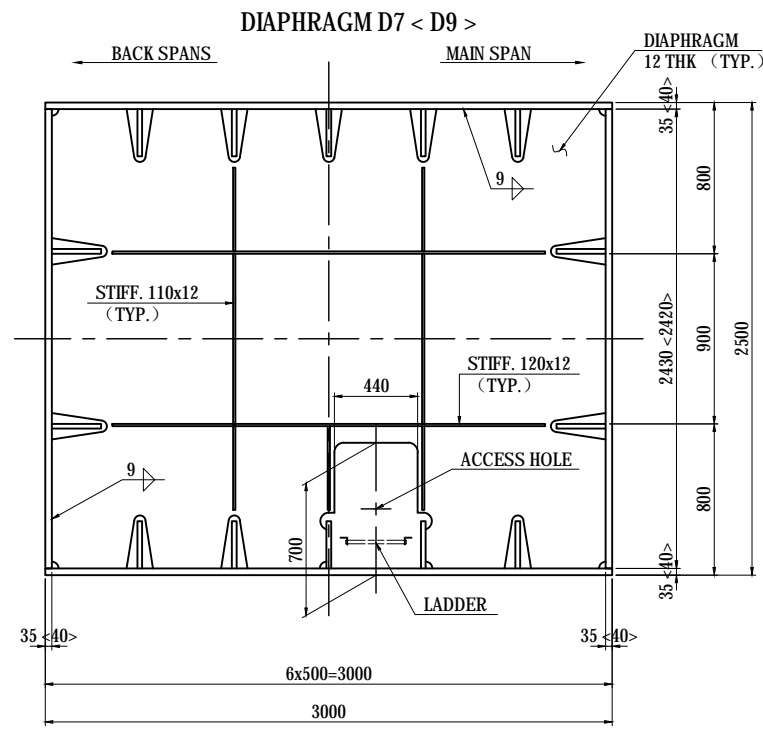


| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY</td> <td>T.TOMODA</td> <td>友田 隆雄</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>平川 和孝</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>佐野 祐一</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY | T.TOMODA | 友田 隆雄 | CHECKED BY | T. HAYAKAWA | 平川 和孝 | APPROVED BY | Y. SANO | 佐野 祐一 | DRAWING TITLE<br>DETAIL OF MAIN TOWER (2) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1302 |
|---|--|---|--|---|------|-----------|------|-------------|----------|-------|------------|-------------|-------|-------------|---------|-------|---|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| PREPARED BY   | T.TOMODA   | 友田 隆雄   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| CHECKED BY  | T. HAYAKAWA  | 平川 和孝   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| APPROVED BY   | Y. SANO  | 佐野 祐一   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |

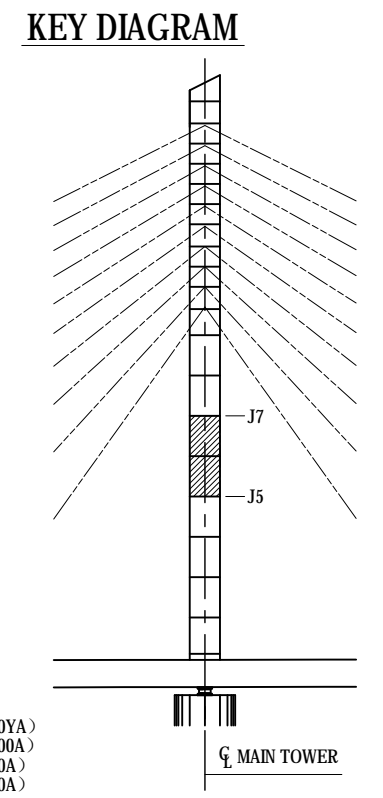
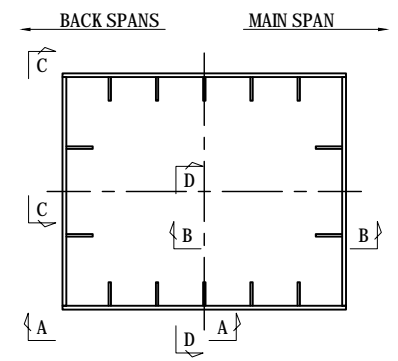
# DETAIL OF MAIN TOWER (3) S=1:40



- 2-WEB PL 3000x40x4000 (SM490YB)
- 10-RIB PL 250x25x3990 (SM490YB)
- 2-FLG PL 2420x40x4000 (SM490YB)
- 4-RIB PL 280x27x3990 (SM490YB)
- 1-DIA PL 2920x12x2420 (SM490YA)
- 2-STIFF PL 120x12x2240 (SM400A)
- 2-STIFF PL 110x12x900 (SM400A)
- 5-STIFF PL 110x12x438 (SM400A)

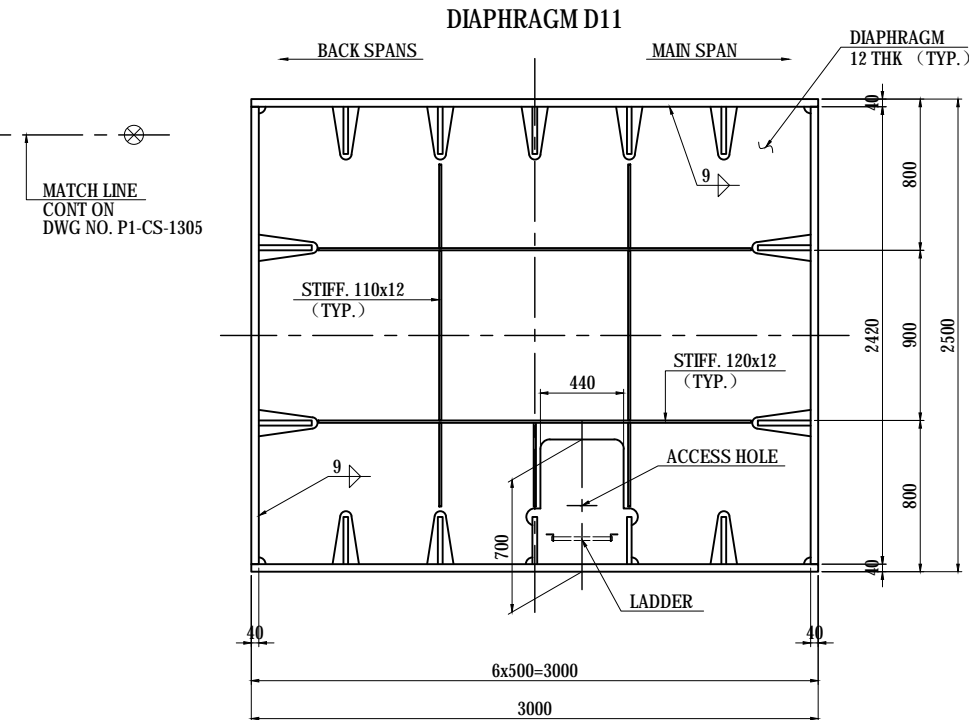
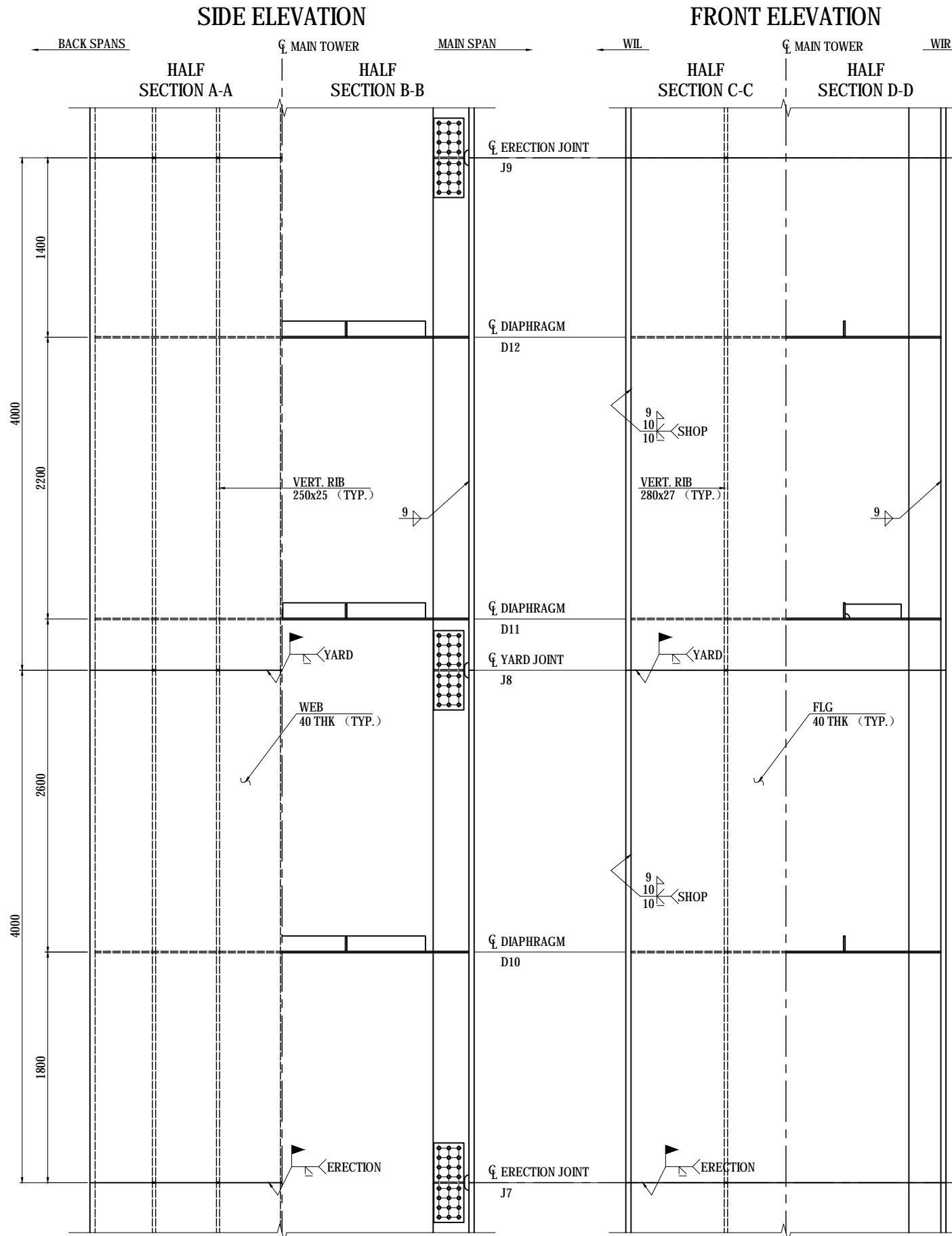


- 2-WEB PL 3000x35x4000 (SM490YB)
- 10-RIB PL 250x25x3990 (SM490YB)
- 2-FLG PL 2430x35x4000 (SM490YB)
- 4-RIB PL 260x25x3990 (SM490YB)
- 1-DIA PL 2930x12x2430 (SM490YA)
- 2-STIFF PL 120x12x2290 (SM400A)
- 2-STIFF PL 110x12x900 (SM400A)
- 5-STIFF PL 110x12x443 (SM400A)

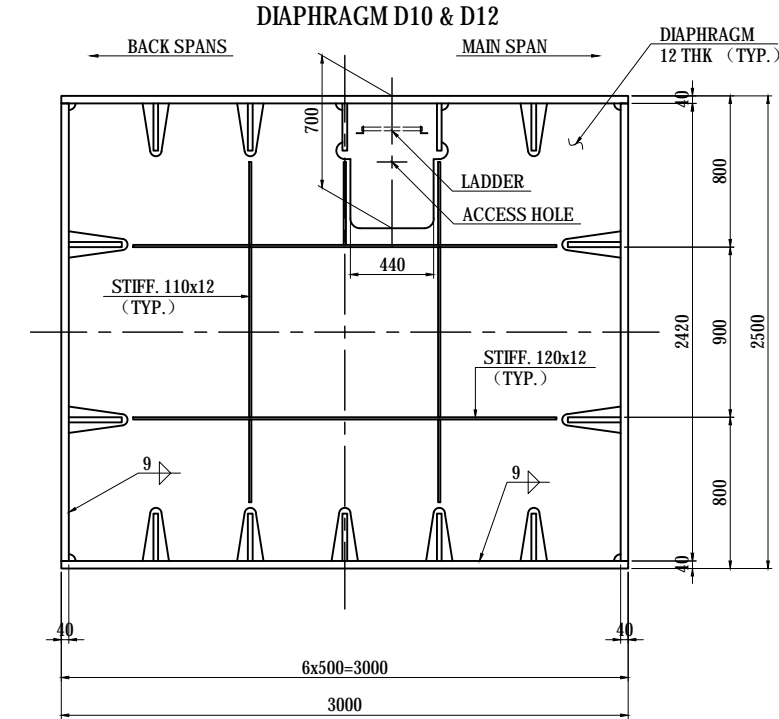
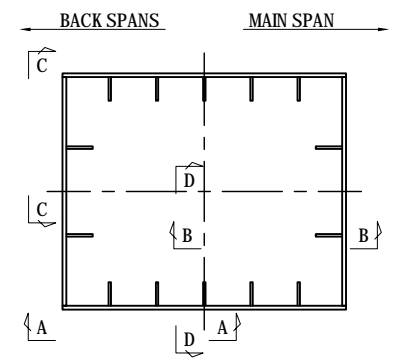


| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY</td> <td>T.TOMODA</td> <td>友田 智雄</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>平川 知平</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>佐野 祐一</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY | T.TOMODA | 友田 智雄 | CHECKED BY | T. HAYAKAWA | 平川 知平 | APPROVED BY | Y. SANO | 佐野 祐一 | DRAWING TITLE<br>DETAIL OF MAIN TOWER (3) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1303 |
|---|--|---|--|---|------|-----------|------|-------------|----------|-------|------------|-------------|-------|-------------|---------|-------|---|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| PREPARED BY   | T.TOMODA   | 友田 智雄   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| CHECKED BY  | T. HAYAKAWA  | 平川 知平   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| APPROVED BY   | Y. SANO  | 佐野 祐一   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |

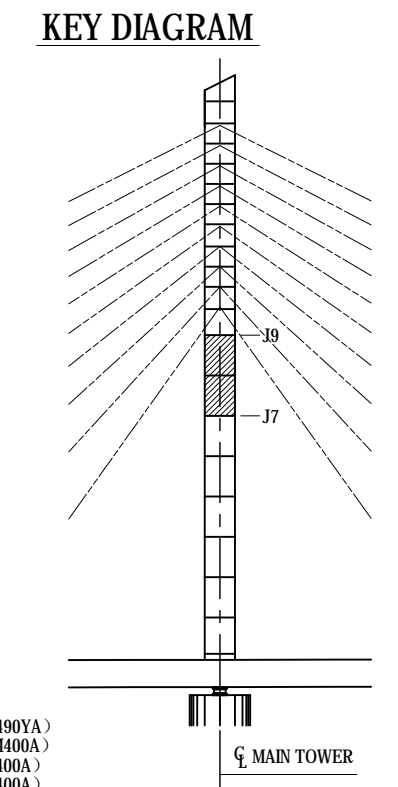
# DETAIL OF MAIN TOWER (4) S=1:40



- 2-WEB PL 3000x40x4000 (SM490YB)
- 10-RIB PL 250x25x3990 (SM490YB)
- 2-FLG PL 2420x40x4000 (SM490YB)
- 4-RIB PL 280x27x3990 (SM490YB)
- 1-DIA PL 2920x12x2420 (SM490YA)
- 2-STIFF PL 120x12x2240 (SM400A)
- 2-STIFF PL 110x12x900 (SM400A)
- 5-STIFF PL 110x12x438 (SM400A)



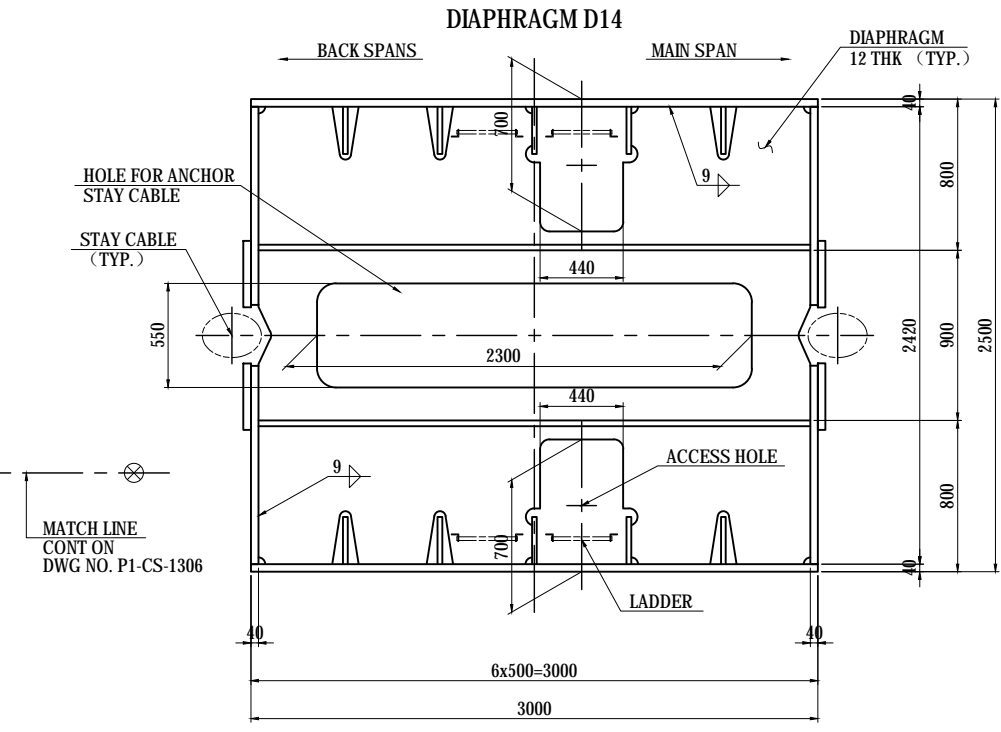
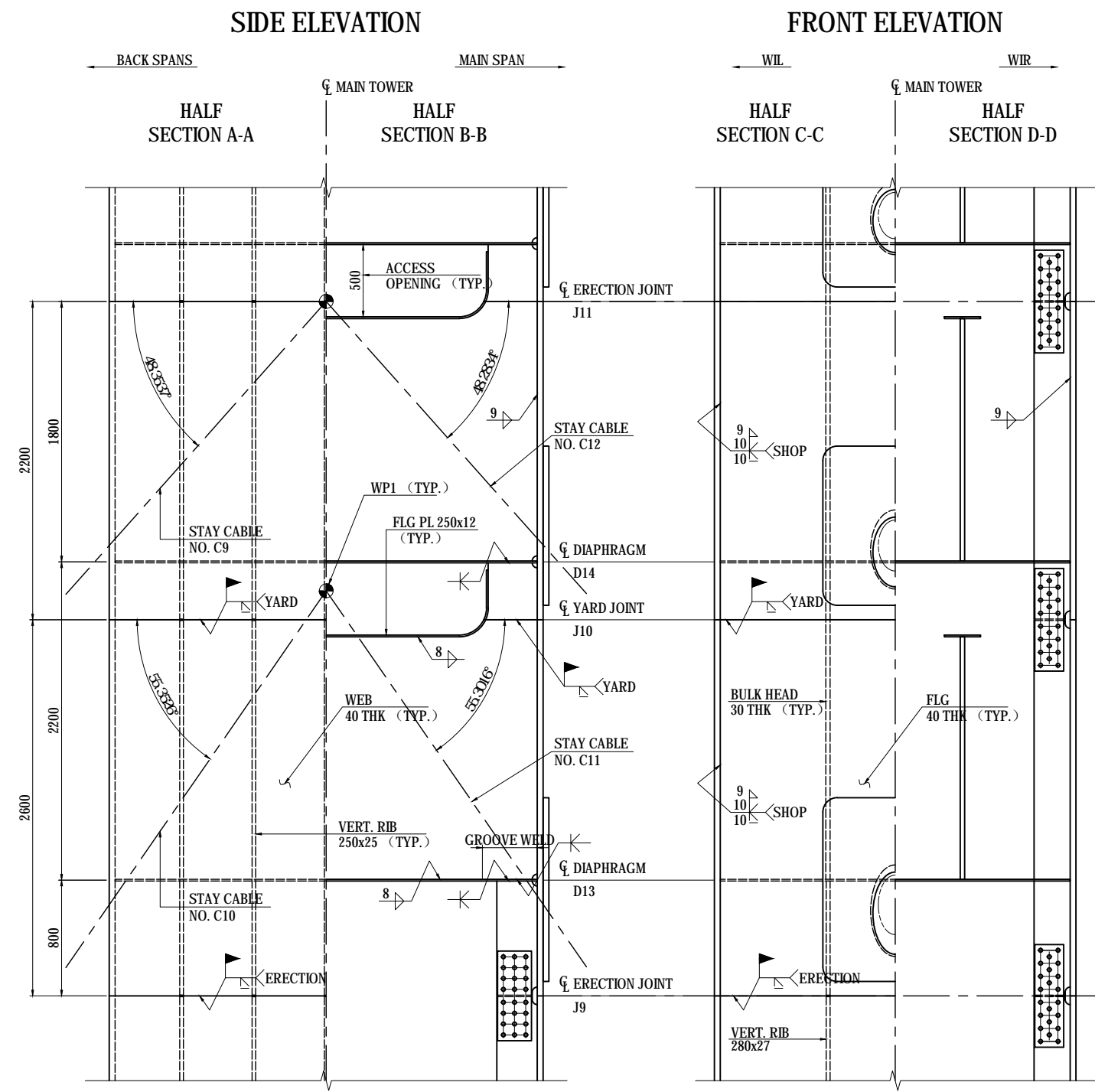
- 2-WEB PL 3000x40x4000 (SM490YB)
- 10-RIB PL 250x25x3990 (SM490YB)
- 2-FLG PL 2430x40x4000 (SM490YB)
- 4-RIB PL 280x27x3990 (SM490YB)
- 1-DIA PL 2920x12x2420 (SM490YA)
- 2-STIFF PL 120x12x2240 (SM400A)
- 2-STIFF PL 110x12x900 (SM400A)
- 5-STIFF PL 110x12x438 (SM400A)



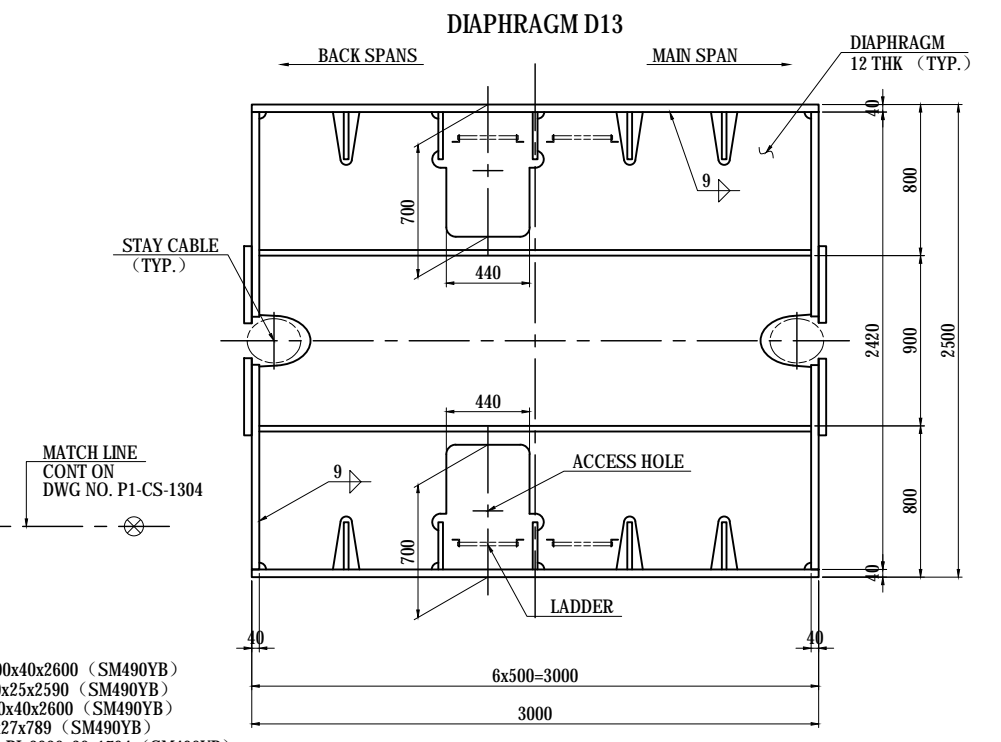
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY</td> <td>T.TOMODA</td> <td>友田 隆雄</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>平川 知平</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>佐野 祐一</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY | T.TOMODA | 友田 隆雄 | CHECKED BY | T. HAYAKAWA | 平川 知平 | APPROVED BY | Y. SANO | 佐野 祐一 | DRAWING TITLE<br><b>DETAIL OF MAIN TOWER (4)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1304 |
|---|--|---|--|---|------|-----------|------|-------------|----------|-------|------------|-------------|-------|-------------|---------|-------|--|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |             |          |       |            |             |       |             |         |       |  |                                       |
| PREPARED BY   | T.TOMODA   | 友田 隆雄   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |  |                                       |
| CHECKED BY  | T. HAYAKAWA  | 平川 知平   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |  |                                       |
| APPROVED BY   | Y. SANO  | 佐野 祐一   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |  |                                       |

# DETAIL OF MAIN TOWER (5) S=1:40

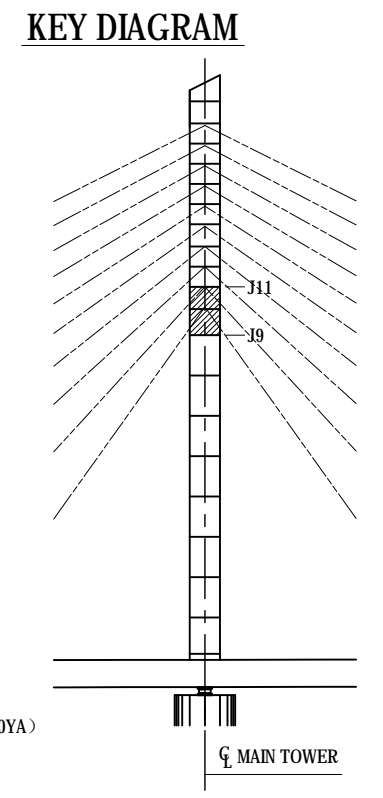
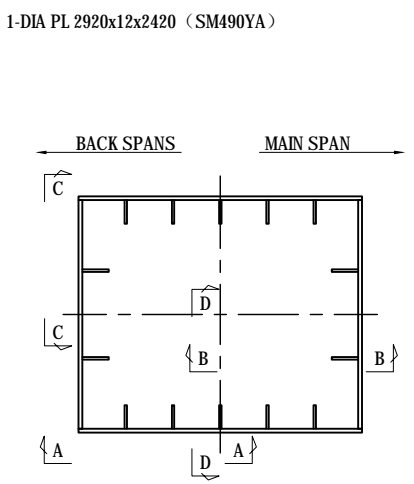
**NOTES:**  
 1 - FOR STAY CABLE ANCHORAGE & HOLE FOR STAY CABLE DETAILS SEE DWG NO. P1-CS-1520 TO 1525.



- 2-WEB PL 3000x40x2200 (SM490YB)
- 10-RIB PL 250x25x2190 (SM490YB)
- 2-FLG PL 2420x40x2200 (SM490YB)
- 4-BULK HEAD PL 394x30x358 (SM490YB)
- 4-FLG PL 250x12x347 (SM490YA)
- 2-BULK HEAD PL 2920x30x1794 (SM490YB)
- 2-FLG PL 250x12x2280 (SM490YA)



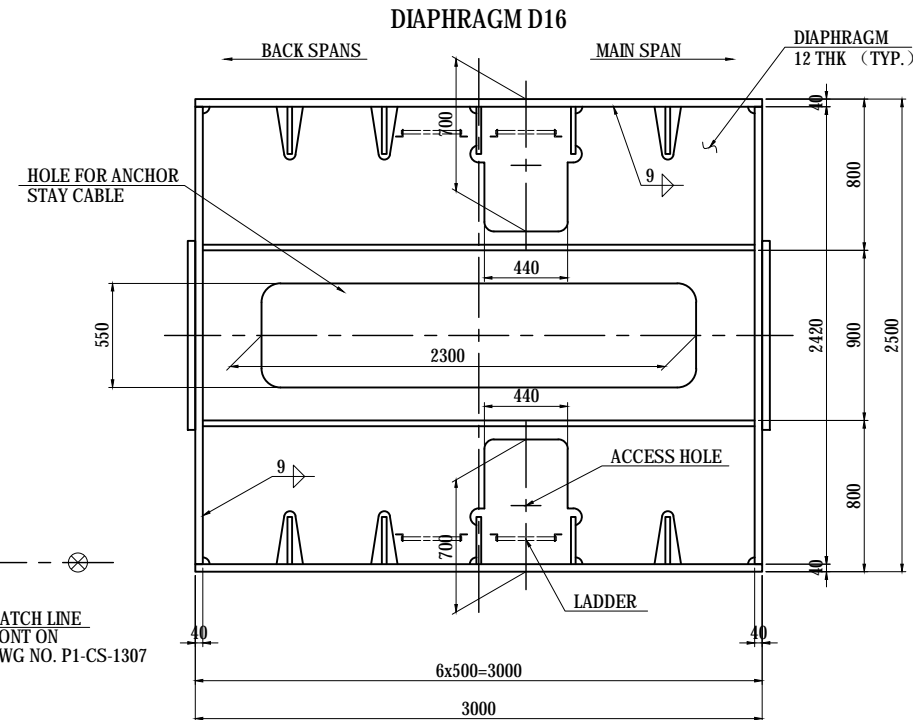
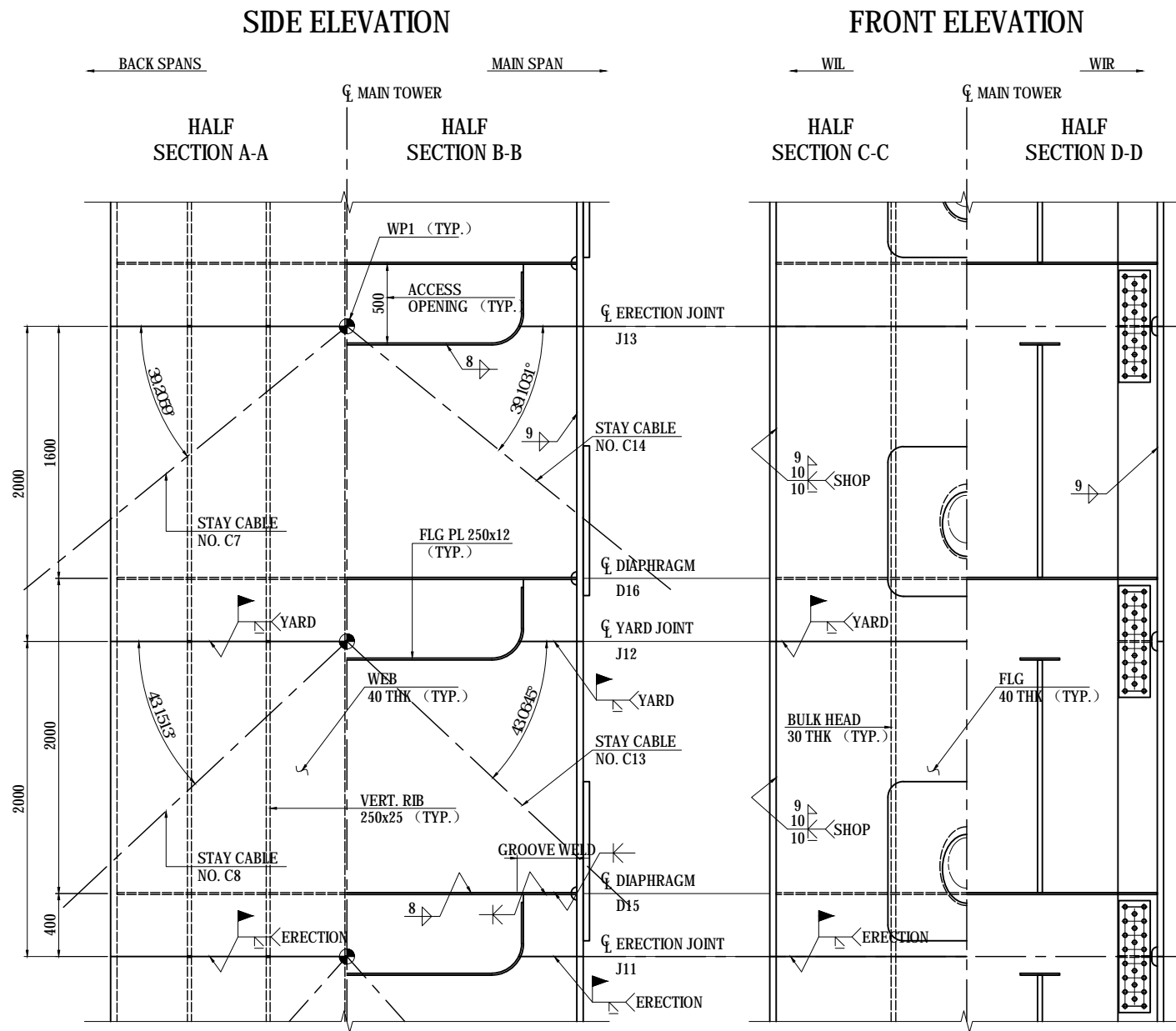
- 2-WEB PL 3000x40x2600 (SM490YB)
- 10-RIB PL 250x25x2590 (SM490YB)
- 2-FLG PL 2420x40x2600 (SM490YB)
- 4-RIB PL 280x27x789 (SM490YB)
- 2-BULK HEAD PL 2920x30x1794 (SM490YB)
- 2-FLG PL 250x12x2280 (SM490YA)



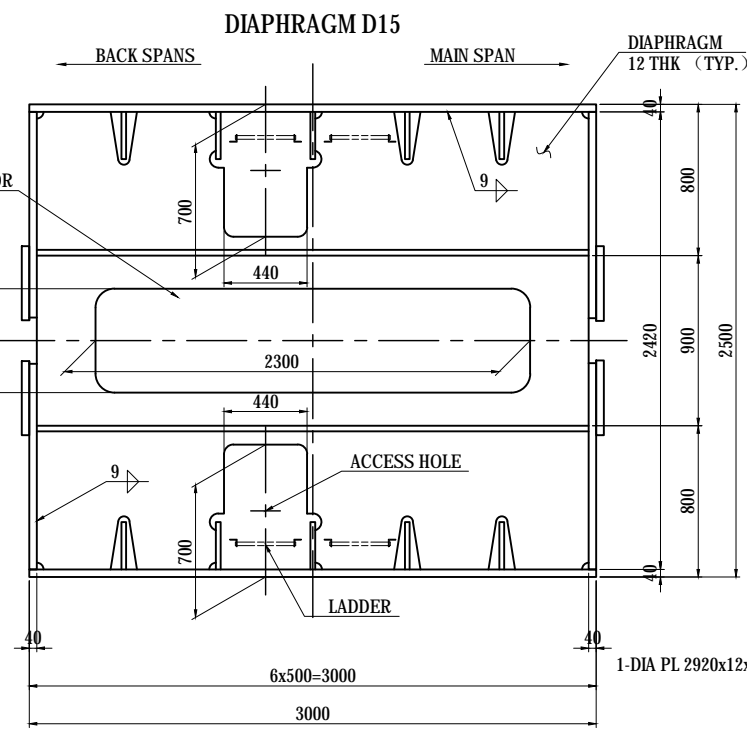
|   |  |   |  |             |             |       |   |              |            |
|---|--|---|--|-------------|-------------|-------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE<br>DETAIL OF MAIN TOWER (5) | PACKAGE      |            |
|   |  |   |  | PREPARED BY | T.TOMODA    | 友田 智雄 |   | 27. Nov.2017 | 1          |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA | 平川 知寿 |   | 28. Nov.2017 | DWG No.    |
|   |  |   |  | APPROVED BY | Y. SANO     | 佐野 祐一 |   | 29. Nov.2017 | P1-CS-1305 |

# DETAIL OF MAIN TOWER (6) S=1:40

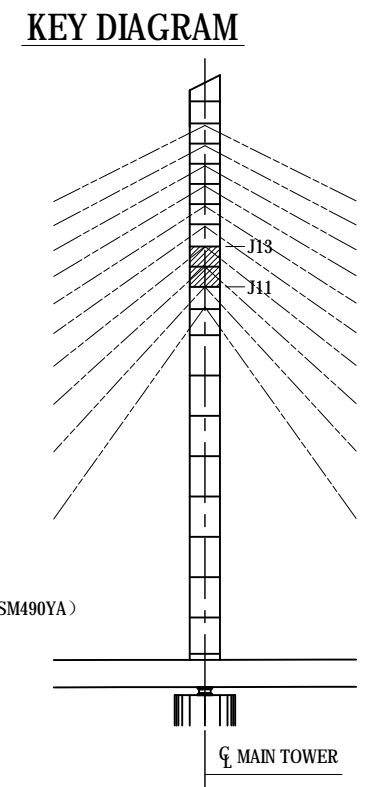
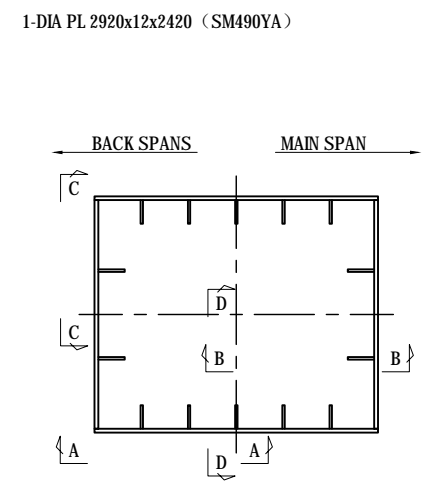
**NOTES:**  
 1 - FOR STAY CABLE ANCHORAGE & HOLE FOR STAY CABLE DETAILS SEE DWG NO. P1-CS-1515 TO 1519.



- 2-WEB PL 3000x40x2000 (SM490YB)
- 10-RIB PL 250x25x1990 (SM490YB)
- 2-FLG PL 2420x40x2000 (SM490YB)
- 4-BULK HEAD PL 394x30x358 (SM490YB)
- 4-FLG PL 250x12x347 (SM490YA)
- 2-BULK HEAD PL 2920x30x1794 (SM490YB)
- 2-FLG PL 250x12x2280 (SM490YA)



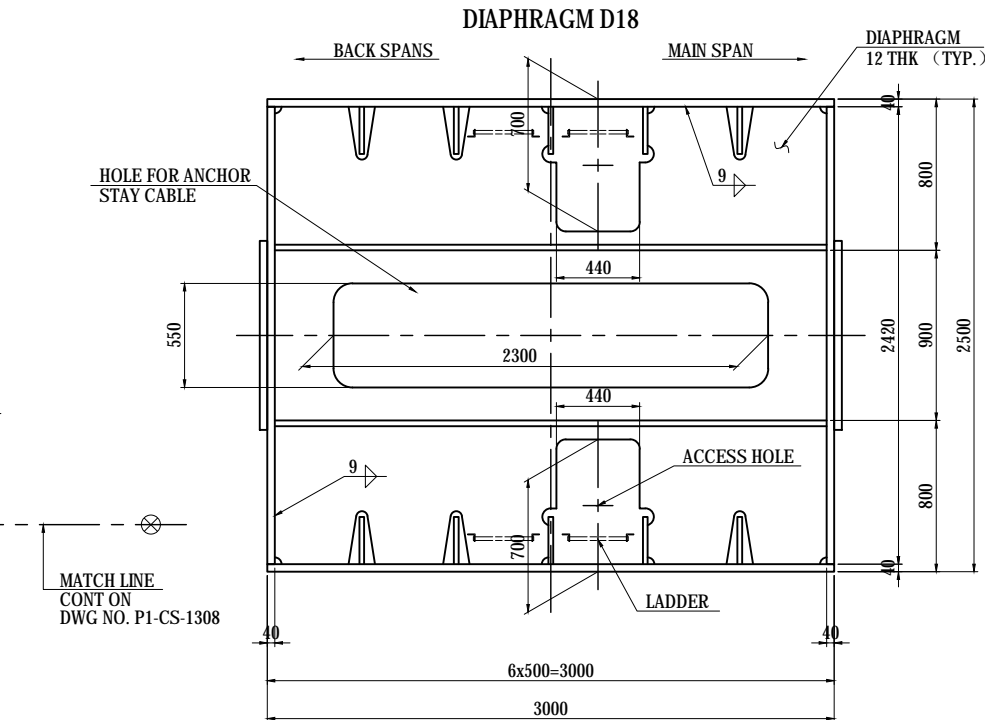
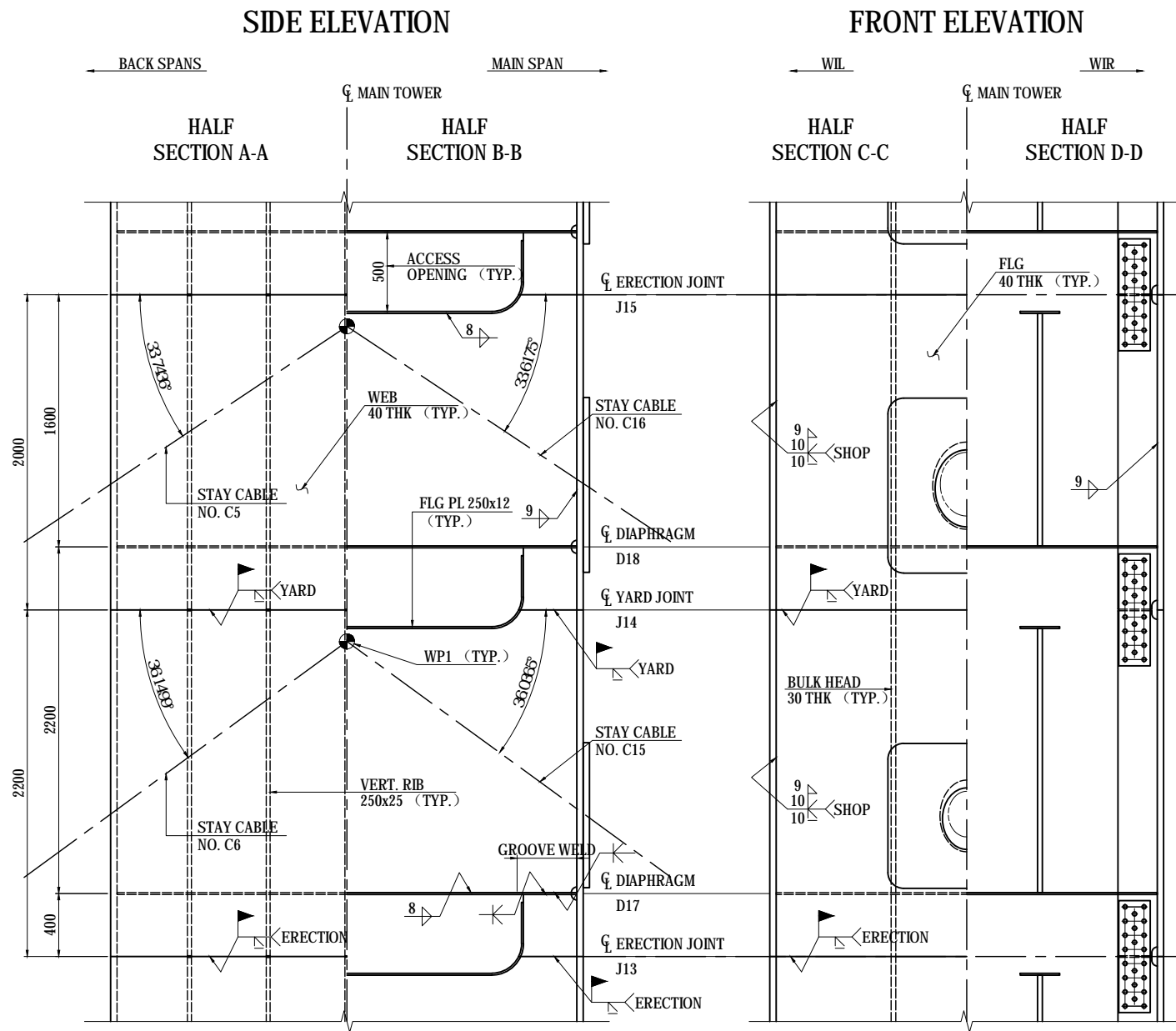
- 2-WEB PL 3000x40x2000 (SM490YB)
- 10-RIB PL 250x25x1990 (SM490YB)
- 2-FLG PL 2420x40x2000 (SM490YB)
- 4-BULK HEAD PL 394x30x358 (SM490YB)
- 4-FLG PL 250x12x347 (SM490YA)
- 2-BULK HEAD PL 2920x30x1794 (SM490YB)
- 2-FLG PL 250x12x2280 (SM490YA)



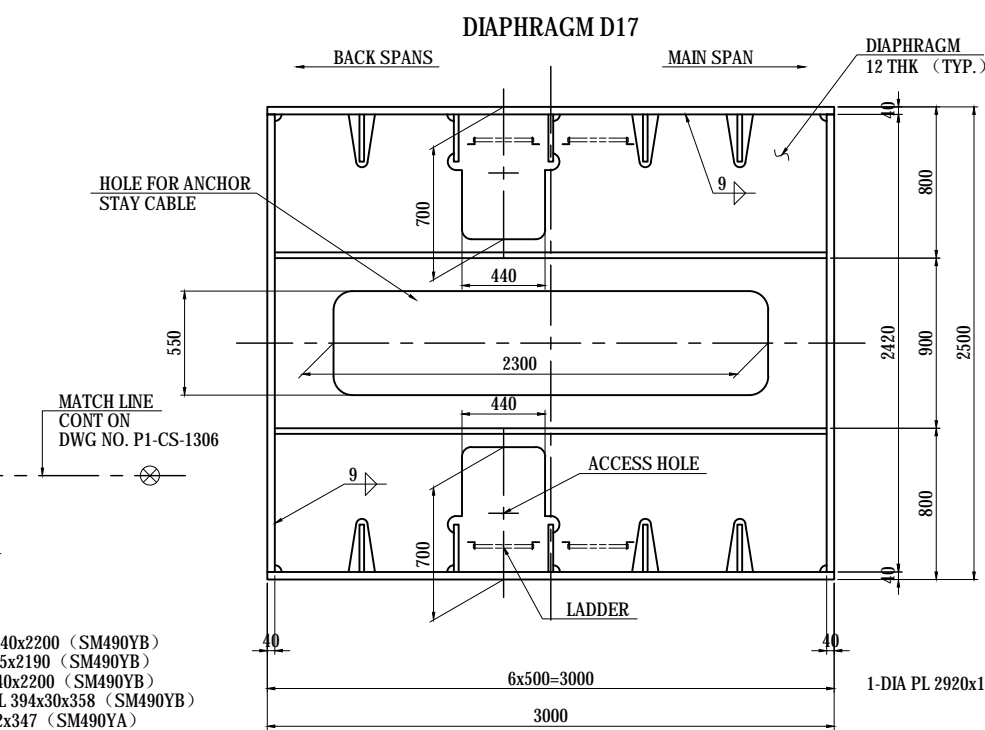
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|---|--|---|--|-------------|-------------|------|---|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>DETAIL OF MAIN TOWER (6) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1306 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |   |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |   |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |   |                                       | 29. Nov.2017 |

# DETAIL OF MAIN TOWER (7) S=1:40

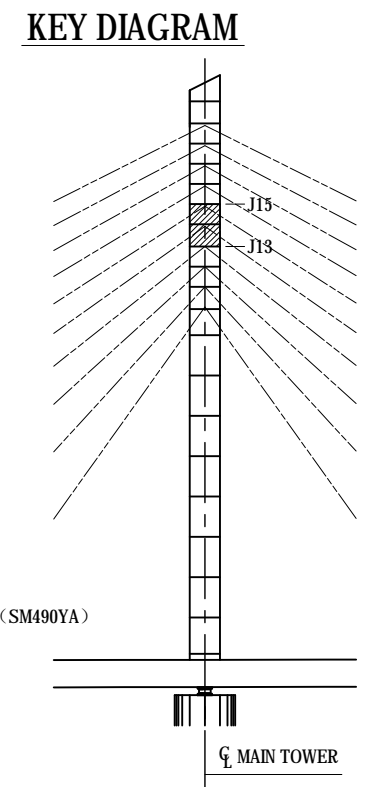
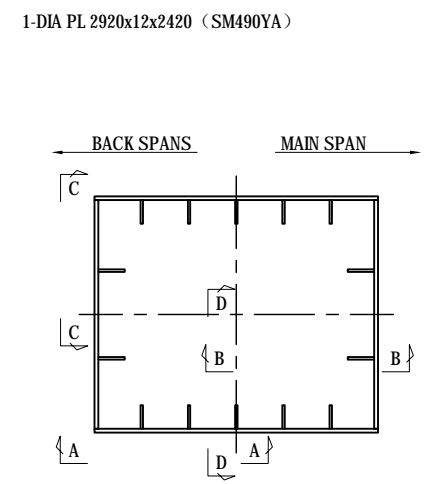
**NOTES:**  
 1 - FOR STAY CABLE ANCHORAGE & HOLE FOR STAY CABLE DETAILS SEE DWG NO. P1-CS-1511 TO 1514.



- 2-WEB PL 3000x40x2000 (SM490YB)
- 10-RIB PL 250x25x1990 (SM490YB)
- 2-FLG PL 2420x40x2000 (SM490YB)
- 4-BULK HEAD PL 394x30x358 (SM490YB)
- 2-FLG PL 250x12x347 (SM490YA)
- 2-BULK HEAD PL 2920x30x1794 (SM490YB)
- 2-FLG PL 250x12x2280 (SM490YA)



- 2-WEB PL 3000x40x2200 (SM490YB)
- 10-RIB PL 250x25x2190 (SM490YB)
- 2-FLG PL 2420x40x2200 (SM490YB)
- 4-BULK HEAD PL 394x30x358 (SM490YB)
- 4-FLG PL 250x12x347 (SM490YA)
- 2-BULK HEAD PL 2920x30x1794 (SM490YB)
- 2-FLG PL 250x12x2280 (SM490YA)

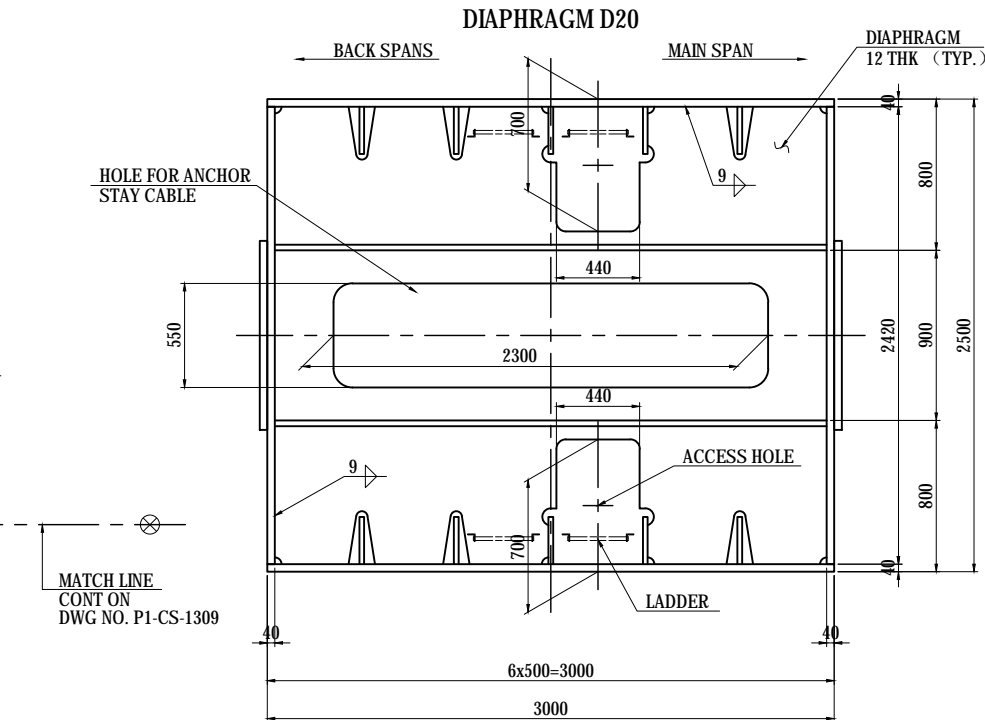
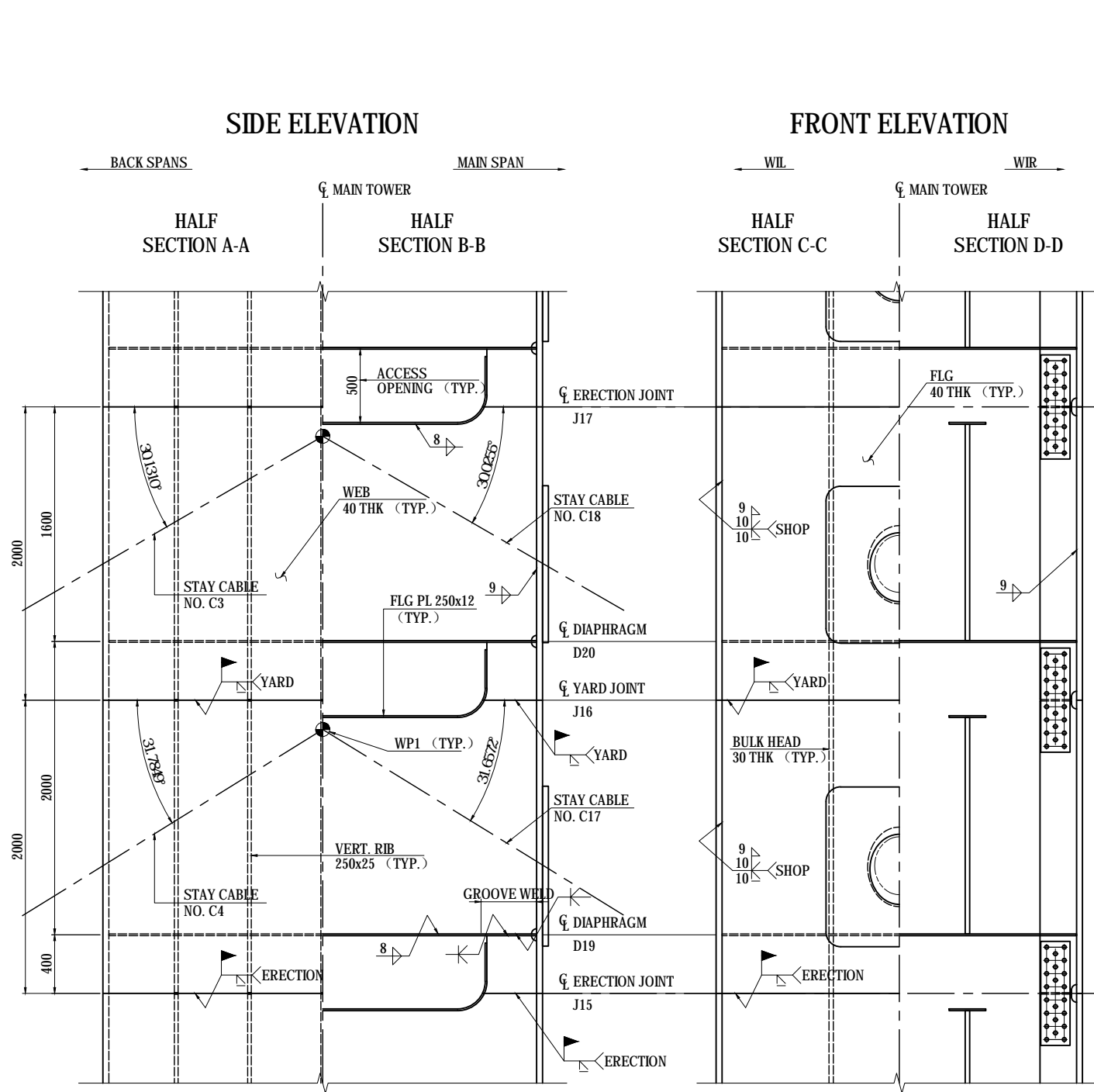


|   |  |   |  |             |             |      |               |            |              |
|---|--|---|--|-------------|-------------|------|---------------|------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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 |
| DETAIL OF MAIN TOWER (7)  |  |   |  |             |             |      | 1             | P1-CS-1307 |              |

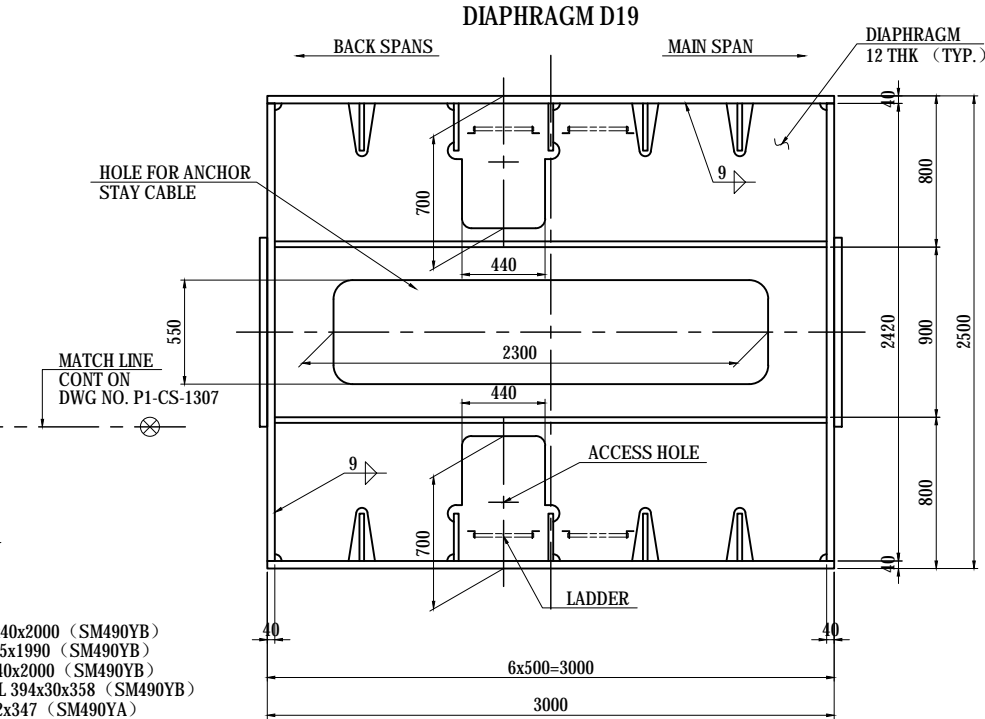


# DETAIL OF MAIN TOWER (8) S=1:40

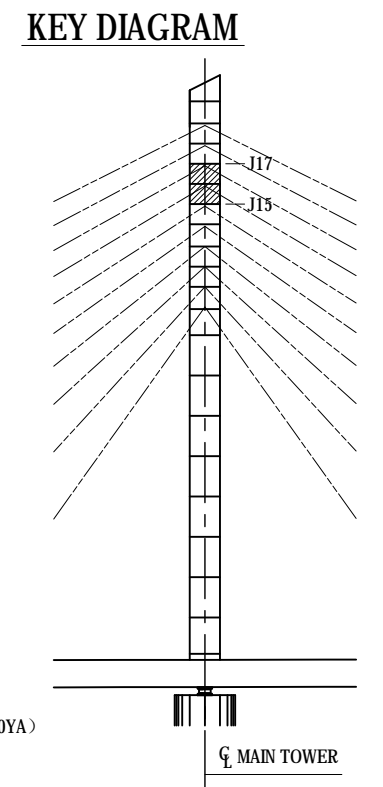
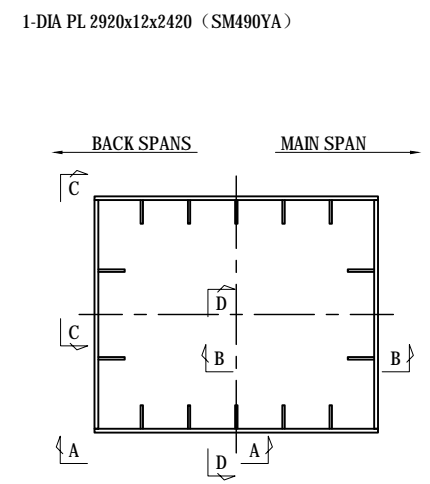
**NOTES:**  
 1 - FOR STAY CABLE ANCHORAGE & HOLE FOR STAY CABLE DETAILS SEE DWG NO. P1-CS-1507 TO 1510.



2-WEB PL 3000x40x2000 (SM490YB)  
 10-RIB PL 250x25x1990 (SM490YB)  
 2-FLG PL 2420x40x2000 (SM490YB)  
 4-BULK HEAD PL 394x30x358 (SM490YB)  
 4-FLG PL 250x12x347 (SM490YA)  
 2-BUL KHEAD PL 2920x30x1794 (SM490YB)  
 2-FLG PL 250x12x2280 (SM490YA)



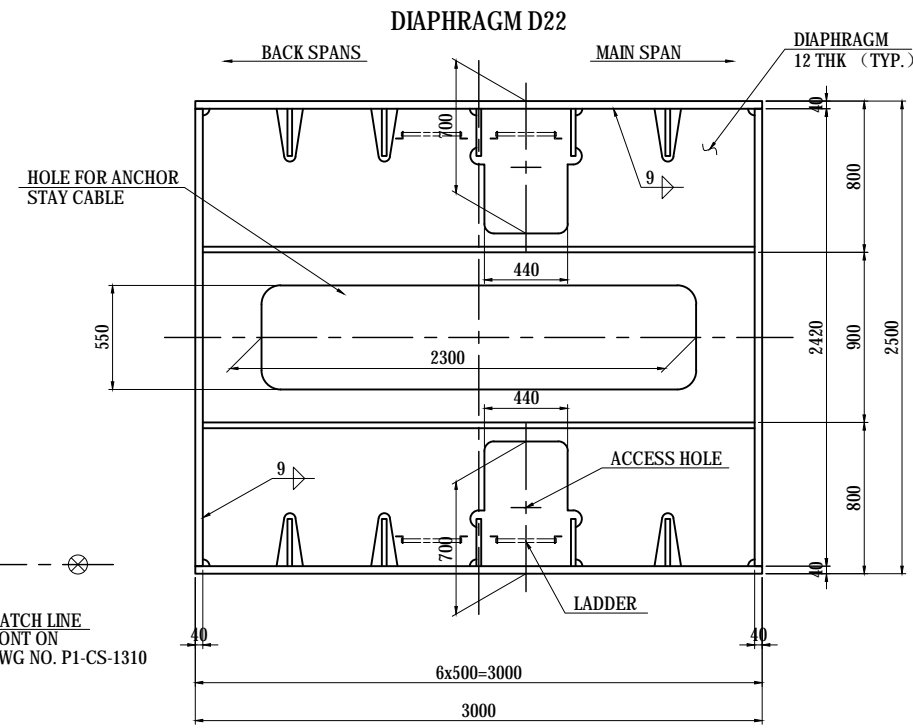
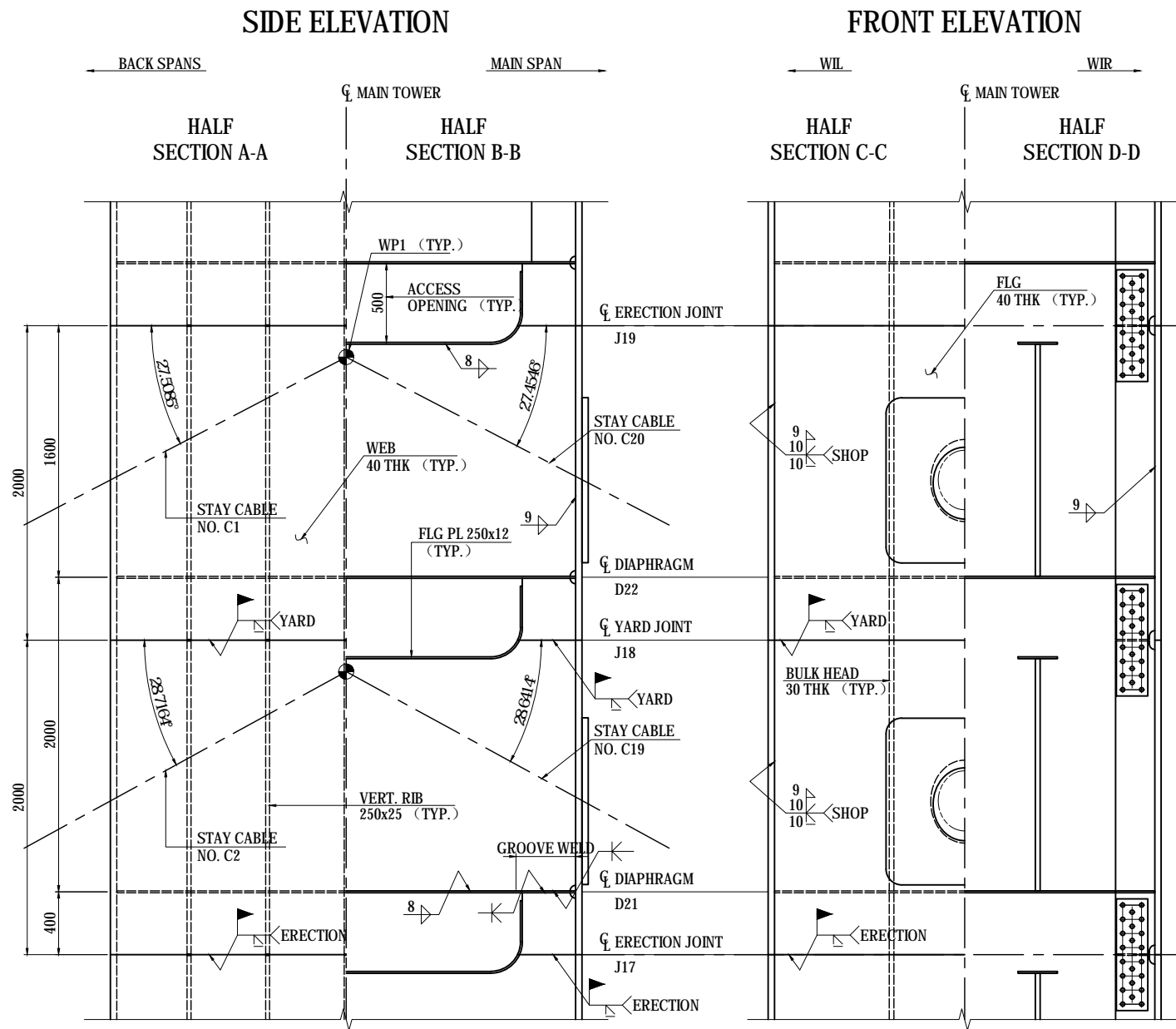
2-WEB PL 3000x40x2000 (SM490YB)  
 10-RIB PL 250x25x1990 (SM490YB)  
 2-FLG PL 2420x40x2000 (SM490YB)  
 4-BULK HEAD PL 394x30x358 (SM490YB)  
 4-FLG PL 250x12x347 (SM490YA)  
 2-BULK HEAD PL 2920x30x1794 (SM490YB)  
 2-FLG PL 250x12x2280 (SM490YA)



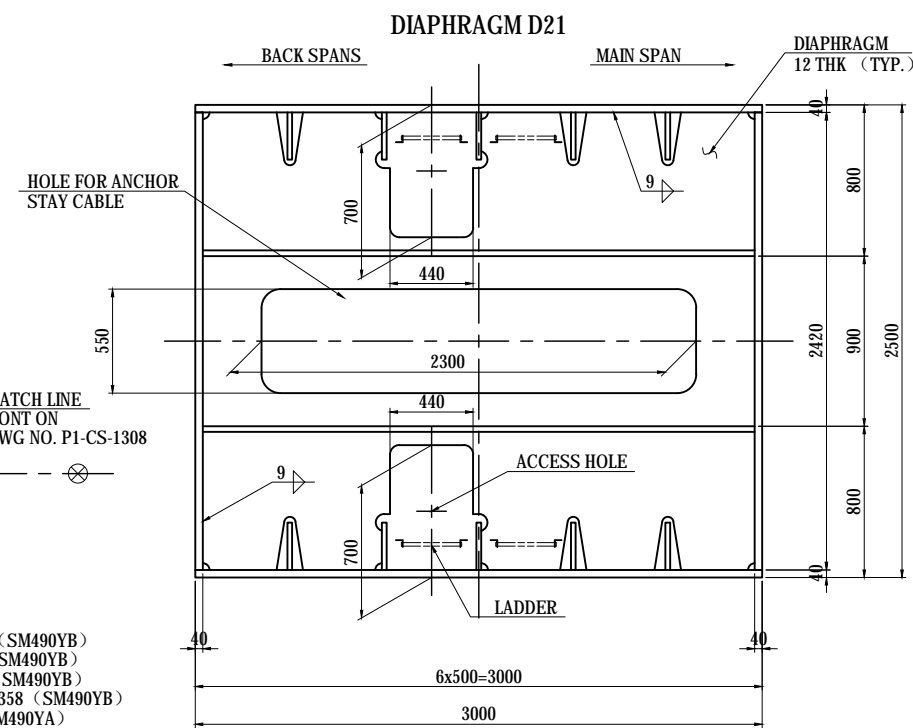
|   |  |   |  |             |             |       |               |            |              |
|---|--|---|--|-------------|-------------|-------|---------------|------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE | PACKAGE    |              |
|   |  |   |  | 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 |
| DETAIL OF MAIN TOWER (8)  |  |   |  |             |             |       | 1             | P1-CS-1308 |              |

# DETAIL OF MAIN TOWER (9) S=1:40

**NOTES:**  
 1 - FOR STAY CABLE ANCHORAGE & HOLE FOR STAY CABLE DETAILS SEE DWG NO. P1-CS-1503 TO 1506.

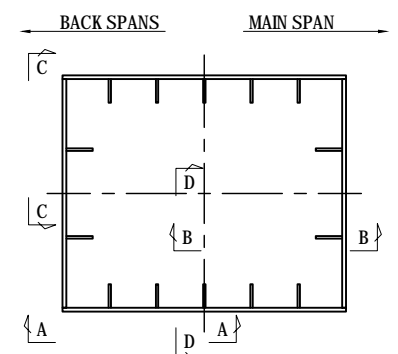


- 2-WEB PL 3000x40x2000 (SM490YB)
- 10-RIB PL 250x25x1990 (SM490YB)
- 2-FLG PL 2420x40x2000 (SM490YB)
- 4-BULK HEAD PL 394x30x358 (SM490YB)
- 4-FLG PL 250x12x347 (SM490YA)
- 2-BUL KHEAD PL 2920x30x1794 (SM490YB)
- 2-FLG PL 250x12x2280 (SM490YA)

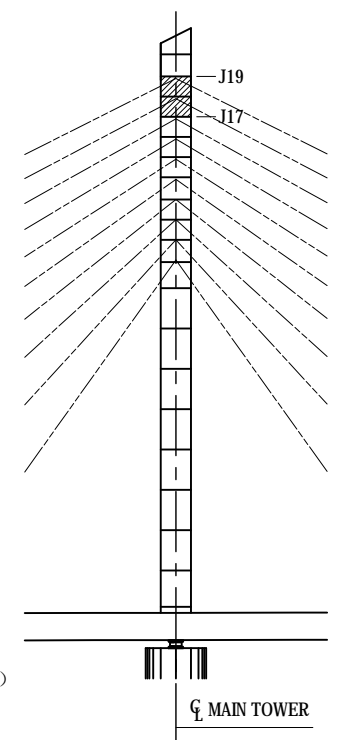


- 2-WEB PL 3000x40x2000 (SM490YB)
- 10-RIB PL 250x25x1990 (SM490YB)
- 2-FLG PL 2420x40x2000 (SM490YB)
- 4-BULK HEAD PL 394x30x358 (SM490YB)
- 4-FLG PL 250x12x347 (SM490YA)
- 2-BULK HEAD PL 2920x30x1794 (SM490YB)
- 2-FLG PL 250x12x2280 (SM490YA)

1-DIA PL 2920x12x2420 (SM490YA)



### KEY DIAGRAM

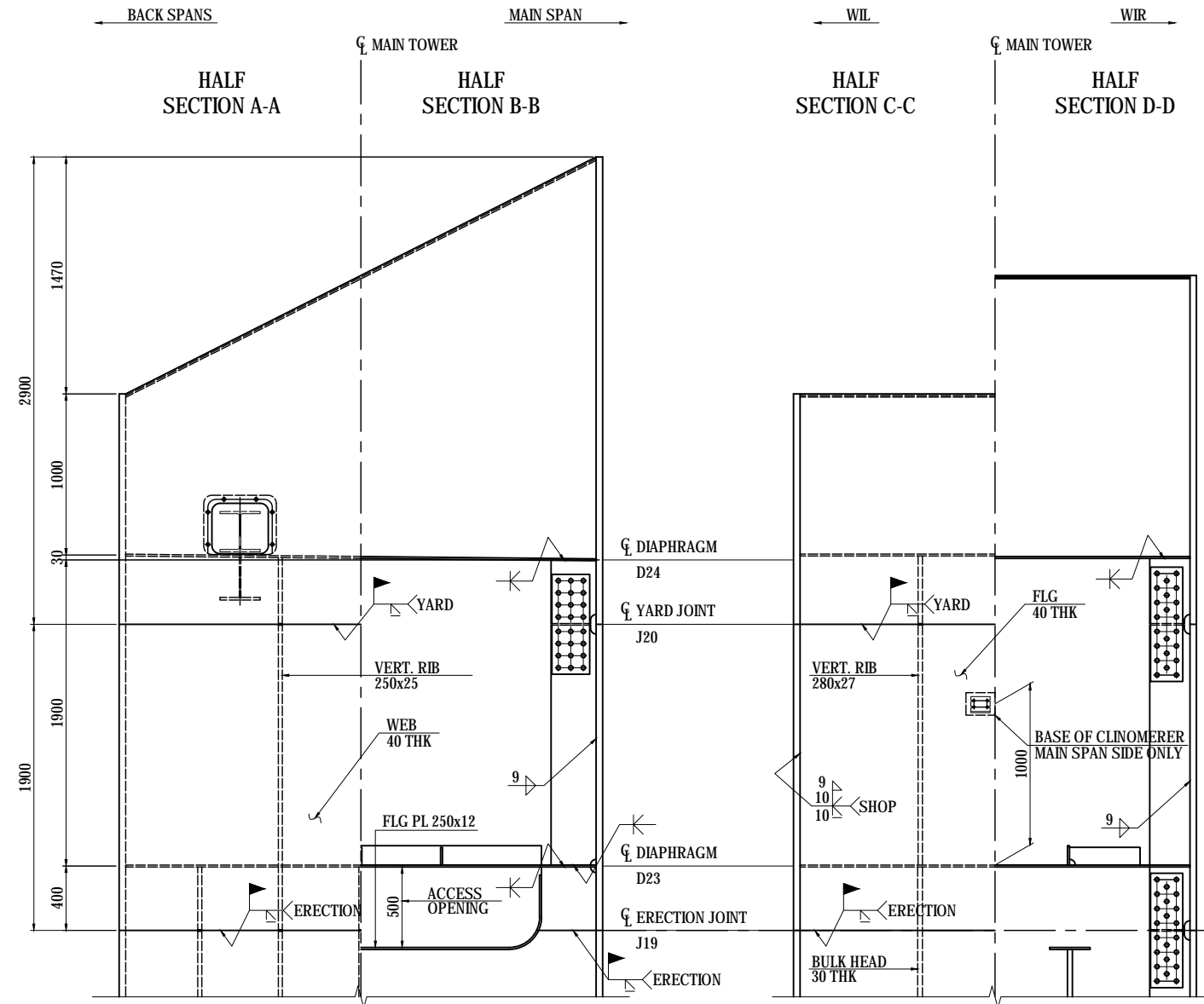


1-DIA PL 2920x12x2420 (SM490YA)

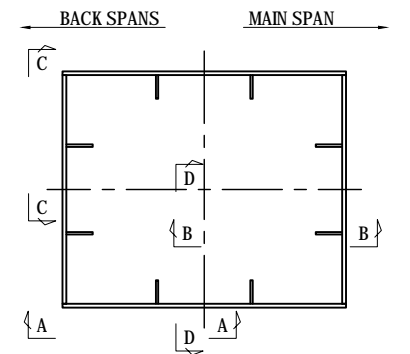
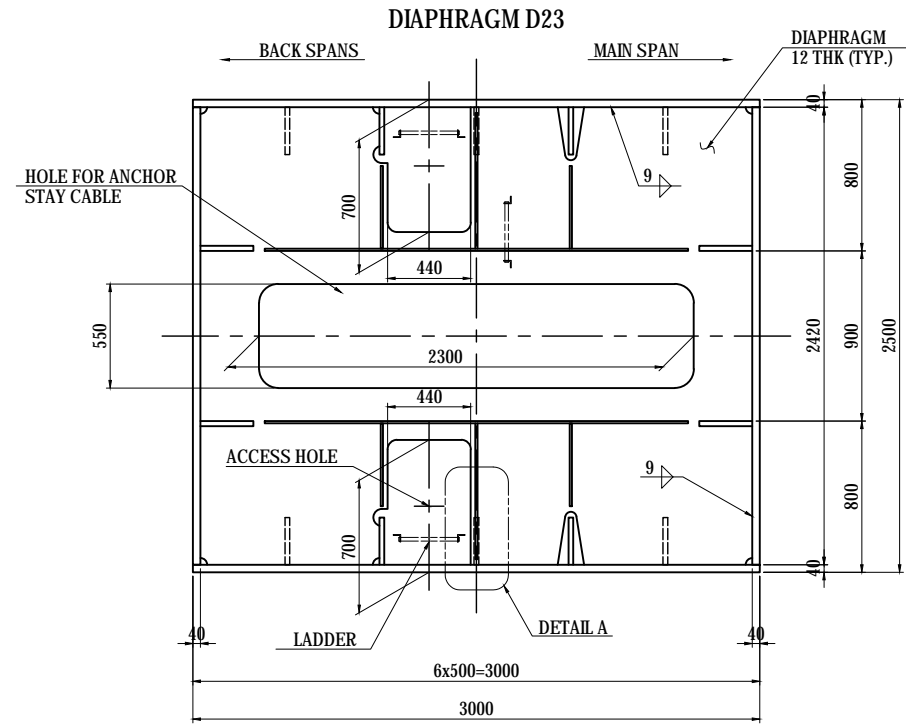
|   |  |   |  |             |             |       |                          |            |              |
|---|--|---|--|-------------|-------------|-------|--------------------------|------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE            | PACKAGE    |              |
|   |  |   |  | 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 |
|   |  |   |  |             |             |       | DETAIL OF MAIN TOWER (9) | 1          |              |
|   |  |   |  |             |             |       |                          | DWG No.    |              |
|   |  |   |  |             |             |       |                          | P1-CS-1309 |              |

# DETAIL OF MAIN TOWER (10) S=1:40

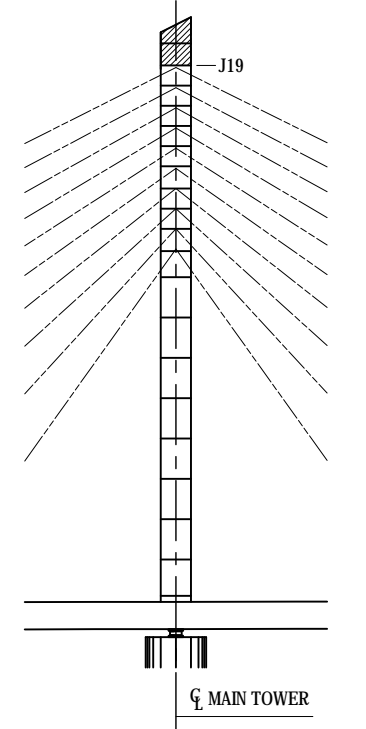
## SIDE ELEVATION



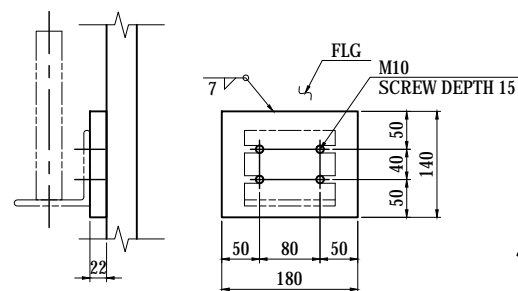
## FRONT ELEVATION



## KEY DIAGRAM



## BASE OF CLINOMETER DETAIL S=1:10

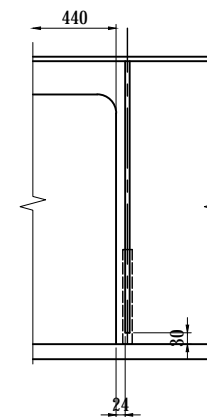


- 1-BASE PL 140x22x180 (SM400A)
- 4-BOLT M10x20 (SS400)

△ ADJUST BOLT HOLES DIAMETER AND POSITION ACCORDING TO THE TYPE OF DEVICE INSTALLED.

- 2-WEB PL 3000x40x1900 (SM490YB)
- 4-RIB PL 250x25x1890 (SM490YB)
- 6-RIB PL 250x25x389 (SM490YB)
- 2-FLG PL 2420x40x1900 (SM490YB)
- 4-RIB PL 280x27x1489 (SM490YB)
- 4-BULK HEAD PL 394x30x358 (SM490YB)
- 4-FLG PL 250x12x347 (SM490YA)

## DETAIL A S=1:20



- 1-DIA PL 2920x12x2420 (SM490YA)
- 2-STIFF PL 120x12x2240 (SM400A)
- 4-STIFF PL 110x12x438 (SM400A)
- 2-STIFF PL 110x12x718 (SM400A)

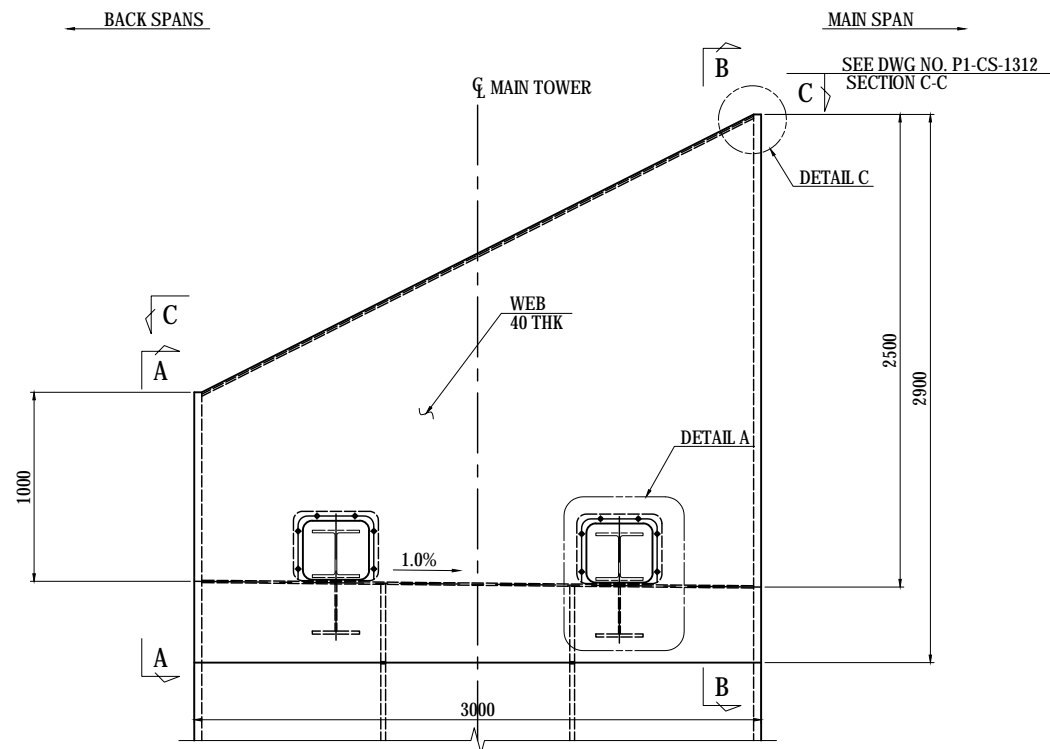
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NAME</th> <th style="width: 10%;">SIGNATURE</th> <th style="width: 10%;">DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY</td> <td>T.TOMODA</td> <td>友田 隆雄</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>平川 知子</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>佐野 祐一</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY | T.TOMODA | 友田 隆雄 | CHECKED BY | T. HAYAKAWA | 平川 知子 | APPROVED BY | Y. SANO | 佐野 祐一 | DRAWING TITLE<br><h3 style="text-align: center;">DETAIL OF MAIN TOWER (10)</h3> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1310 |
|---|--|---|--|---|------|-----------|------|-------------|----------|-------|------------|-------------|-------|-------------|---------|-------|---|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| PREPARED BY   | T.TOMODA   | 友田 隆雄   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| CHECKED BY  | T. HAYAKAWA  | 平川 知子   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| APPROVED BY   | Y. SANO  | 佐野 祐一   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |

# DETAIL OF MAIN TOWER (11) S=1:40

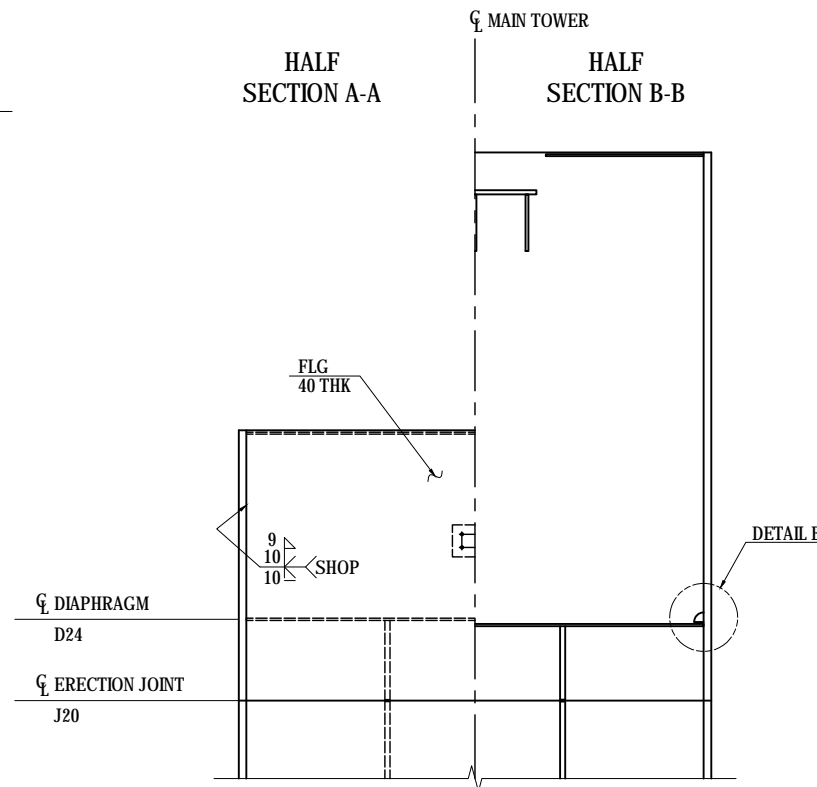
## TOP OF MAIN TOWER

**NOTES:**  
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1310.

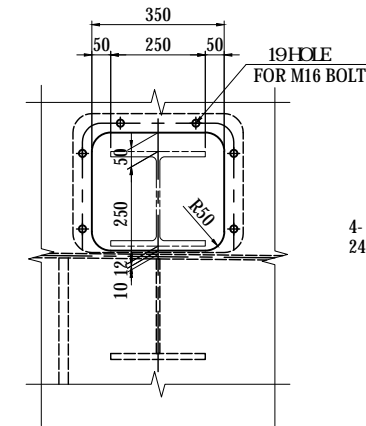
### SIDE ELEVATION



### FRONT ELEVATION

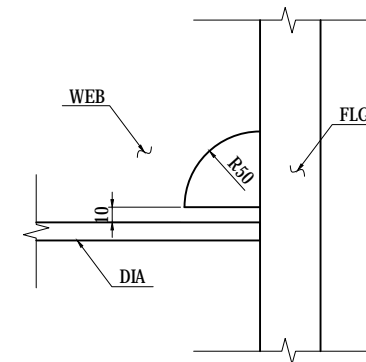


### DETAIL A S=1:20

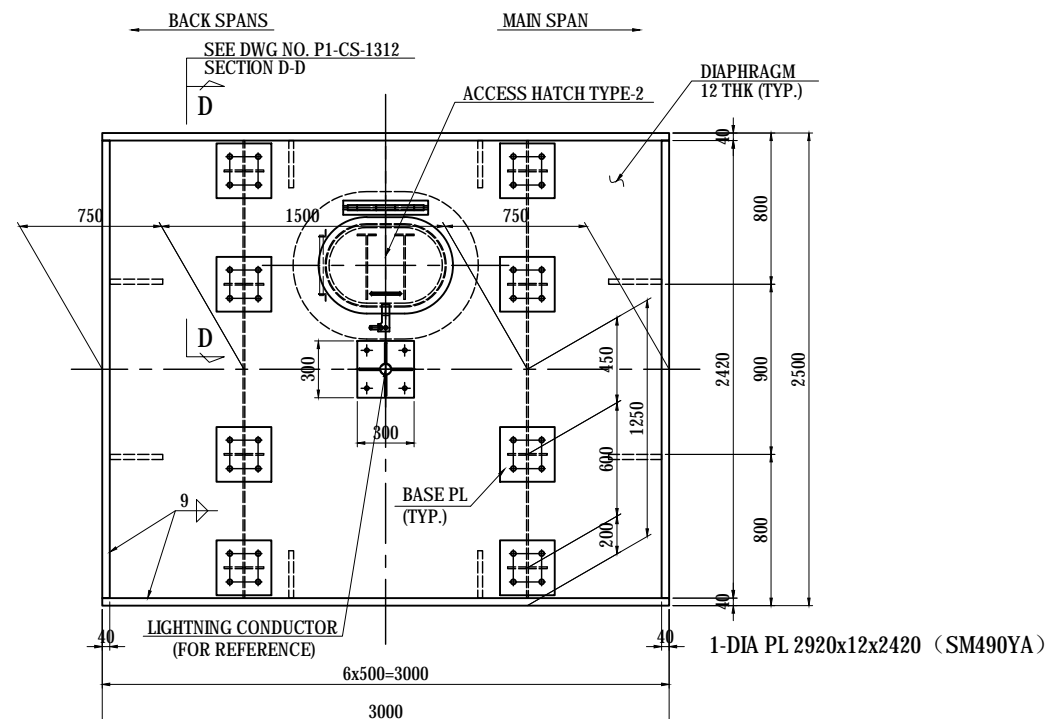


4- PL 450x9x367 (SS400)  
24-BN M16x70 (SS400)

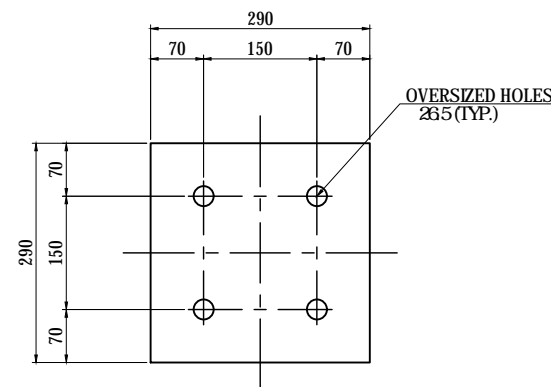
### DETAIL B S=1:5



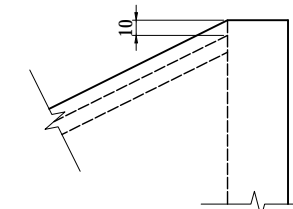
### DIAPHRAGM D24



### BASE PL DETAIL S=1:10



### DETAIL C S=1:5



2-WEB PL 3000x40x2900 (SM490YB)  
2-RIB PL 250x25x399 (SM490YB)  
2-RIB PL 250x25x409 (SM490YB)  
1-FLG PL 2420x40x2900 (SM490YB)  
1-FLG PL 2420x40x1430 (SM490YB)  
2-RIB PL 280x27x389 (SM490YB)  
2-RIB PL 280x27x419 (SM490YB)

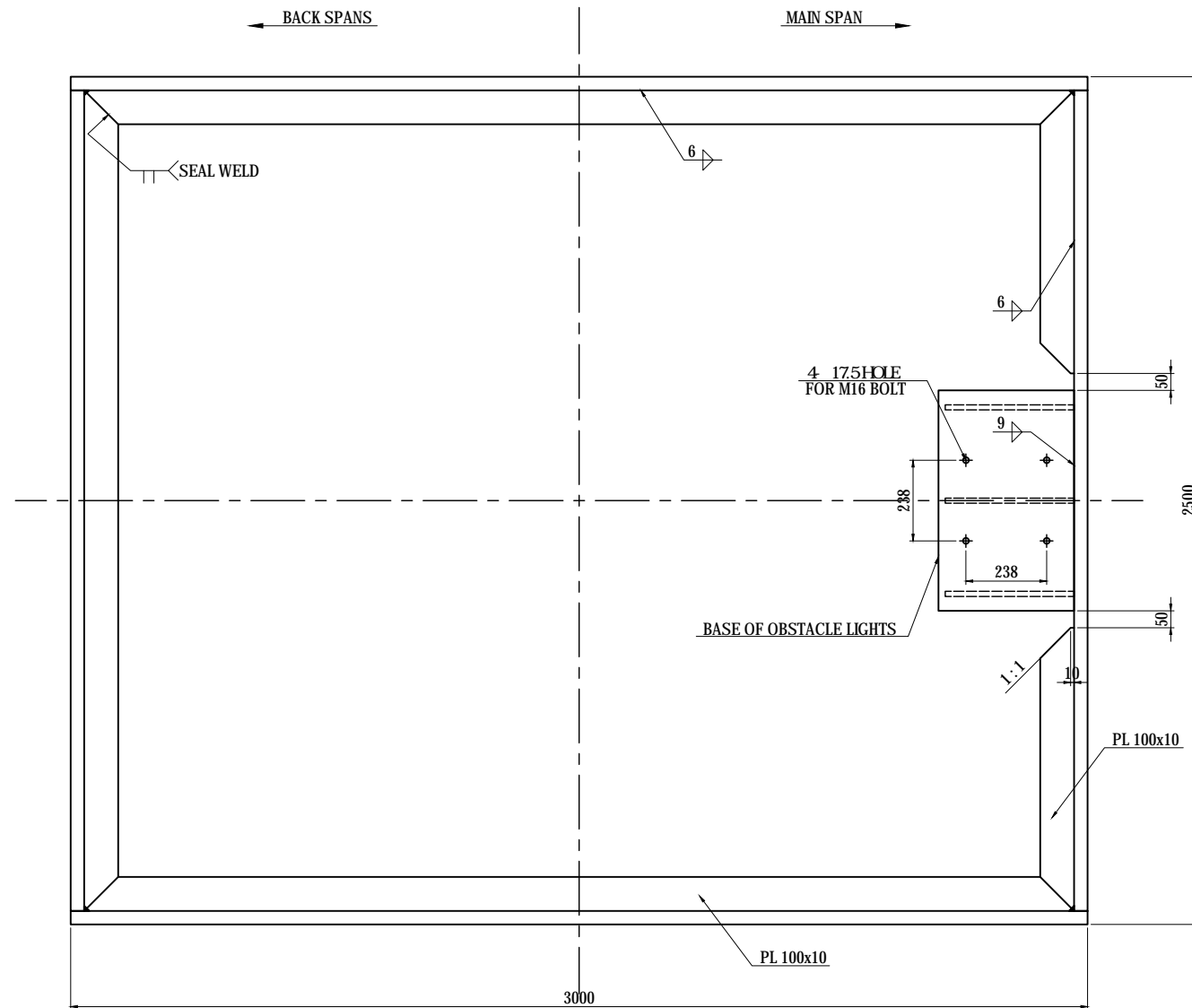
|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>DETAIL OF MAIN TOWER (11) | 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-1311 |

# DETAIL OF MAIN TOWER (12) S=1:20

**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1311.  
 2 - SEE THE ELECTRICAL DRAWING FOR DETAILS ON AIRCRAFT WARNING LIGHTS.

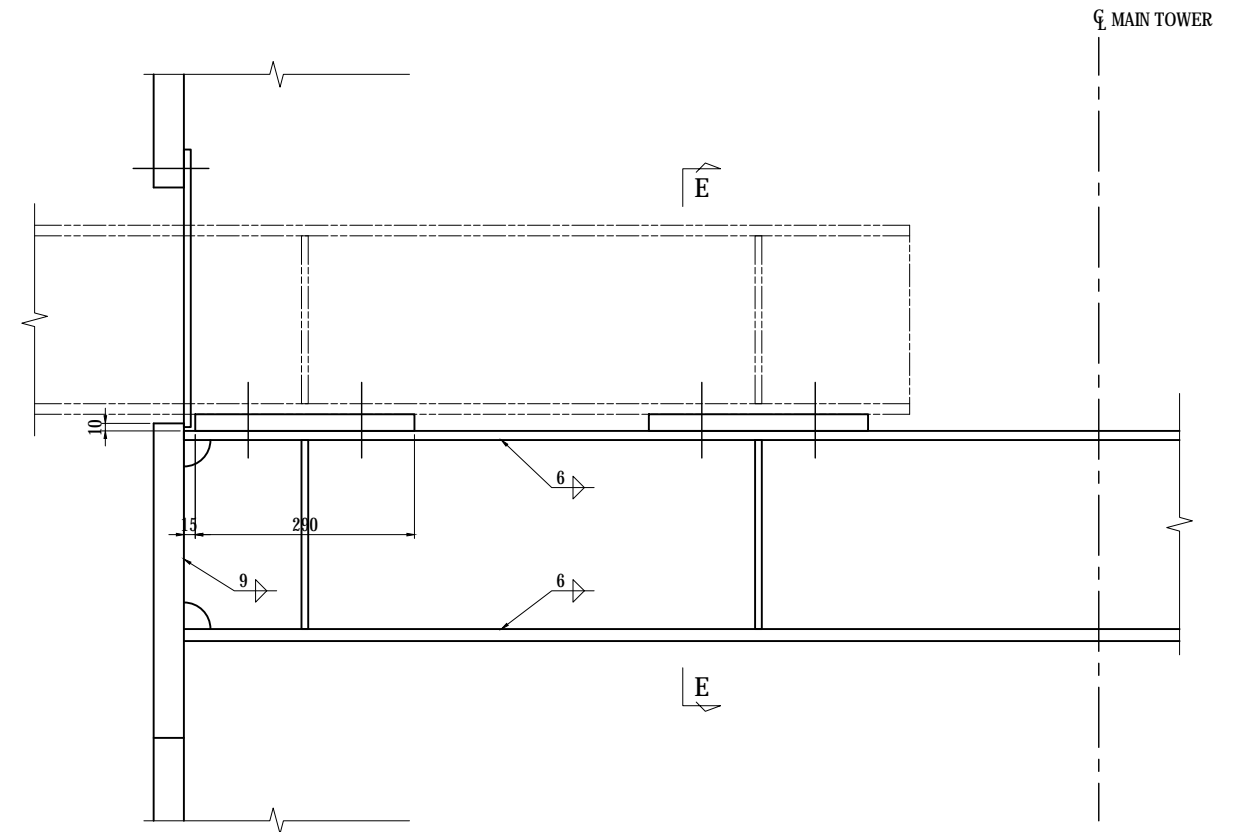
## SECTION C-C

## TOP OF MAIN TOWER



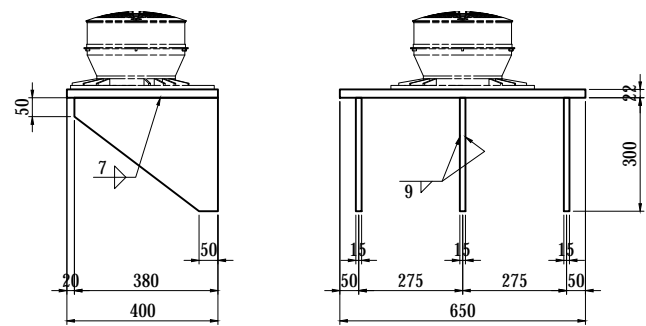
- 1-RIB PL 100x10x2420 (SM400A)
- 2-RIB PL 100x10x2920 (SM400A)
- 2-RIB PL 100x10x835 (SM400A)

## SECTION D-D S=1:10



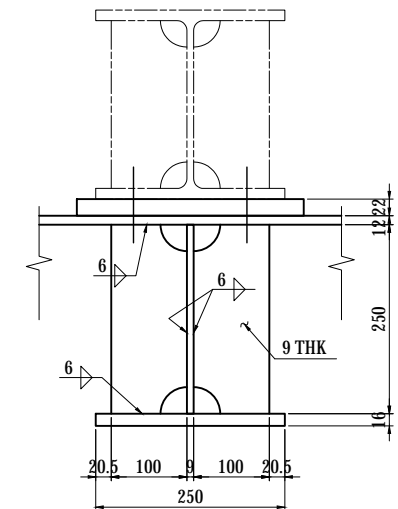
- 2-WEB PL 250x9x2420 (SM400A)
- 2-FLG PL 250x16x2420 (SM400A)
- 16-VSTF PL 100x9x250 (SM400A)
- 8-BASE PL 290x22x290 (SM400A)

## BASE OF AIRCRAFT WARNING LIGHTS DETAIL



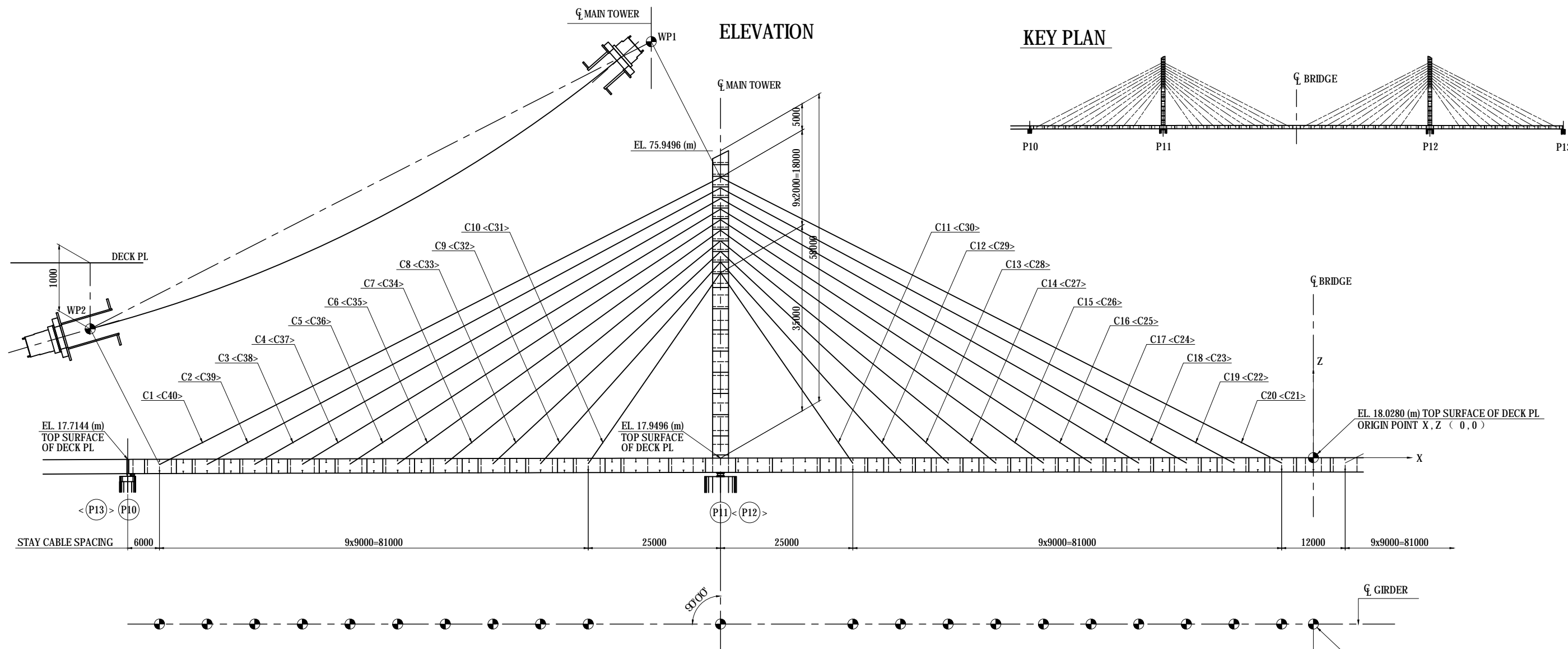
- 1-BASE PL 400x22x650 (SM400A)
- 3-RIB PL 300x15x380 (SM400A)

## SECTION E-E S=1:10



| 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 MAIN TOWER (12) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov. 2017 |                           | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov. 2017 |                           | P1-CS-1312 |

# STAY CABLE ARRANGEMENT & COORDINATES S=1:800

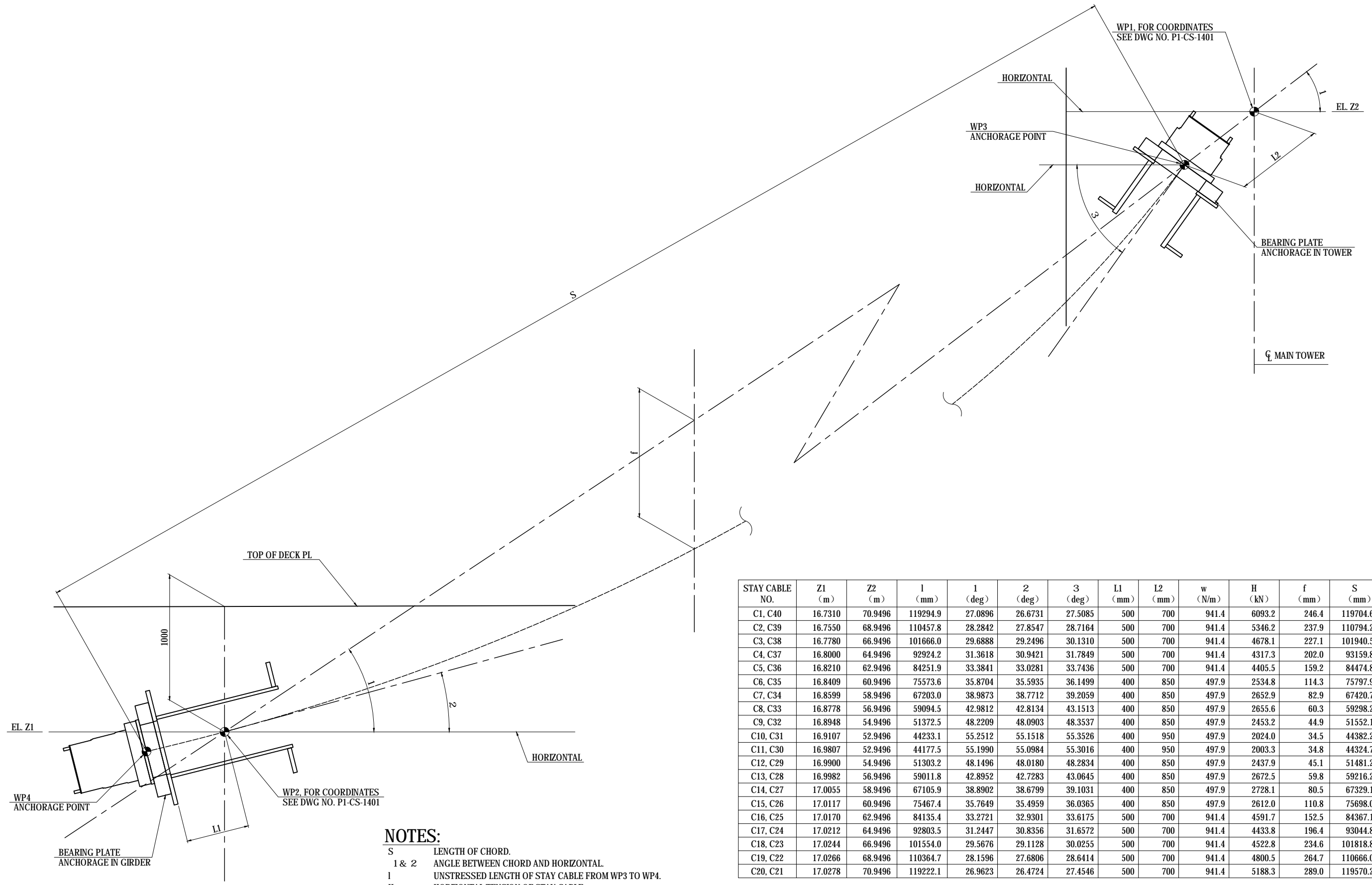


| STAY CABLE NO. | WP1       |        |         | WP2       |        |         |
|----------------|-----------|--------|---------|-----------|--------|---------|
|                | X (m)     | Y (m)  | Z (m)   | X (m)     | Y (m)  | Z (m)   |
| C1             | -112.0000 | 0.0000 | 52.9216 | -218.0000 | 0.0000 | -1.2970 |
| C2             | -112.0000 | 0.0000 | 50.9216 | -209.0000 | 0.0000 | -1.2730 |
| C3             | -112.0000 | 0.0000 | 48.9216 | -200.0000 | 0.0000 | -1.2500 |
| C4             | -112.0000 | 0.0000 | 46.9216 | -191.0000 | 0.0000 | -1.2280 |
| C5             | -112.0000 | 0.0000 | 44.9216 | -182.0000 | 0.0000 | -1.2070 |
| C6             | -112.0000 | 0.0000 | 42.9216 | -173.0000 | 0.0000 | -1.1871 |
| C7             | -112.0000 | 0.0000 | 40.9216 | -164.0000 | 0.0000 | -1.1681 |
| C8             | -112.0000 | 0.0000 | 38.9216 | -155.0000 | 0.0000 | -1.1502 |
| C9             | -112.0000 | 0.0000 | 36.9216 | -146.0000 | 0.0000 | -1.1332 |
| C10            | -112.0000 | 0.0000 | 34.9216 | -137.0000 | 0.0000 | -1.1173 |
| C11            | -112.0000 | 0.0000 | 34.9216 | -87.0000  | 0.0000 | -1.0473 |
| C12            | -112.0000 | 0.0000 | 36.9216 | -78.0000  | 0.0000 | -1.0380 |
| C13            | -112.0000 | 0.0000 | 38.9216 | -69.0000  | 0.0000 | -1.0298 |
| C14            | -112.0000 | 0.0000 | 40.9216 | -60.0000  | 0.0000 | -1.0225 |
| C15            | -112.0000 | 0.0000 | 42.9216 | -51.0000  | 0.0000 | -1.0163 |
| C16            | -112.0000 | 0.0000 | 44.9216 | -42.0000  | 0.0000 | -1.0110 |
| C17            | -112.0000 | 0.0000 | 46.9216 | -33.0000  | 0.0000 | -1.0068 |
| C18            | -112.0000 | 0.0000 | 48.9216 | -24.0000  | 0.0000 | -1.0036 |
| C19            | -112.0000 | 0.0000 | 50.9216 | -15.0000  | 0.0000 | -1.0014 |
| C20            | -112.0000 | 0.0000 | 52.9216 | -6.0000   | 0.0000 | -1.0002 |

| STAY CABLE NO. | WP1      |        |         | WP2      |        |         |
|----------------|----------|--------|---------|----------|--------|---------|
|                | X (m)    | Y (m)  | Z (m)   | X (m)    | Y (m)  | Z (m)   |
| C21            | 112.0000 | 0.0000 | 52.9216 | 6.0000   | 0.0000 | -1.0002 |
| C22            | 112.0000 | 0.0000 | 50.9216 | 15.0000  | 0.0000 | -1.0014 |
| C23            | 112.0000 | 0.0000 | 48.9216 | 24.0000  | 0.0000 | -1.0036 |
| C24            | 112.0000 | 0.0000 | 46.9216 | 33.0000  | 0.0000 | -1.0068 |
| C25            | 112.0000 | 0.0000 | 44.9216 | 42.0000  | 0.0000 | -1.0110 |
| C26            | 112.0000 | 0.0000 | 42.9216 | 51.0000  | 0.0000 | -1.0163 |
| C27            | 112.0000 | 0.0000 | 40.9216 | 60.0000  | 0.0000 | -1.0225 |
| C28            | 112.0000 | 0.0000 | 38.9216 | 69.0000  | 0.0000 | -1.0298 |
| C29            | 112.0000 | 0.0000 | 36.9216 | 78.0000  | 0.0000 | -1.0380 |
| C30            | 112.0000 | 0.0000 | 34.9216 | 87.0000  | 0.0000 | -1.0473 |
| C31            | 112.0000 | 0.0000 | 34.9216 | 137.0000 | 0.0000 | -1.1173 |
| C32            | 112.0000 | 0.0000 | 36.9216 | 146.0000 | 0.0000 | -1.1332 |
| C33            | 112.0000 | 0.0000 | 38.9216 | 155.0000 | 0.0000 | -1.1502 |
| C34            | 112.0000 | 0.0000 | 40.9216 | 164.0000 | 0.0000 | -1.1681 |
| C35            | 112.0000 | 0.0000 | 42.9216 | 173.0000 | 0.0000 | -1.1871 |
| C36            | 112.0000 | 0.0000 | 44.9216 | 182.0000 | 0.0000 | -1.2070 |
| C37            | 112.0000 | 0.0000 | 46.9216 | 191.0000 | 0.0000 | -1.2280 |
| C38            | 112.0000 | 0.0000 | 48.9216 | 200.0000 | 0.0000 | -1.2500 |
| C39            | 112.0000 | 0.0000 | 50.9216 | 209.0000 | 0.0000 | -1.2730 |
| C40            | 112.0000 | 0.0000 | 52.9216 | 218.0000 | 0.0000 | -1.2970 |

**NOTES:**  
 1 - MAIN TOWER P11 IS SHOWN,  
 MAIN TOWER P12 READ IN BRACKETS.

# STAY CABLES GEOMETRY N.T.S



| STAY CABLE NO. | Z1 (m)  | Z2 (m)  | 1 (mm)   | 1 (deg) | 2 (deg) | 3 (deg) | L1 (mm) | L2 (mm) | w (N/m) | H (kN) | f (mm) | S (mm)   |
|----------------|---------|---------|----------|---------|---------|---------|---------|---------|---------|--------|--------|----------|
| C1, C40        | 16.7310 | 70.9496 | 119294.9 | 27.0896 | 26.6731 | 27.5085 | 500     | 700     | 941.4   | 6093.2 | 246.4  | 119704.6 |
| C2, C39        | 16.7550 | 68.9496 | 110457.8 | 28.2842 | 27.8547 | 28.7164 | 500     | 700     | 941.4   | 5346.2 | 237.9  | 110794.2 |
| C3, C38        | 16.7780 | 66.9496 | 101666.0 | 29.6888 | 29.2496 | 30.1310 | 500     | 700     | 941.4   | 4678.1 | 227.1  | 101940.5 |
| C4, C37        | 16.8000 | 64.9496 | 92924.2  | 31.3618 | 30.9421 | 31.7849 | 500     | 700     | 941.4   | 4317.3 | 202.0  | 93159.8  |
| C5, C36        | 16.8210 | 62.9496 | 84251.9  | 33.3841 | 33.0281 | 33.7436 | 500     | 700     | 941.4   | 4405.5 | 159.2  | 84474.8  |
| C6, C35        | 16.8409 | 60.9496 | 75573.6  | 35.8704 | 35.5935 | 36.1499 | 400     | 850     | 497.9   | 2534.8 | 114.3  | 75797.9  |
| C7, C34        | 16.8599 | 58.9496 | 67203.0  | 38.9873 | 38.7712 | 39.2059 | 400     | 850     | 497.9   | 2652.9 | 82.9   | 67420.7  |
| C8, C33        | 16.8778 | 56.9496 | 59094.5  | 42.9812 | 42.8134 | 43.1513 | 400     | 850     | 497.9   | 2655.6 | 60.3   | 59298.2  |
| C9, C32        | 16.8948 | 54.9496 | 51372.5  | 48.2209 | 48.0903 | 48.3537 | 400     | 850     | 497.9   | 2453.2 | 44.9   | 51552.1  |
| C10, C31       | 16.9107 | 52.9496 | 44233.1  | 55.2512 | 55.1518 | 55.3526 | 400     | 950     | 497.9   | 2024.0 | 34.5   | 44382.2  |
| C11, C30       | 16.9807 | 52.9496 | 44177.5  | 55.1990 | 55.0984 | 55.3016 | 400     | 950     | 497.9   | 2003.3 | 34.8   | 44324.7  |
| C12, C29       | 16.9900 | 54.9496 | 51303.2  | 48.1496 | 48.0180 | 48.2834 | 400     | 850     | 497.9   | 2437.9 | 45.1   | 51481.2  |
| C13, C28       | 16.9982 | 56.9496 | 59011.8  | 42.8952 | 42.7283 | 43.0645 | 400     | 850     | 497.9   | 2672.5 | 59.8   | 59216.2  |
| C14, C27       | 17.0055 | 58.9496 | 67105.9  | 38.8902 | 38.6799 | 39.1031 | 400     | 850     | 497.9   | 2728.1 | 80.5   | 67329.1  |
| C15, C26       | 17.0117 | 60.9496 | 75467.4  | 35.7649 | 35.4959 | 36.0365 | 400     | 850     | 497.9   | 2612.0 | 110.8  | 75698.0  |
| C16, C25       | 17.0170 | 62.9496 | 84135.4  | 33.2721 | 32.9301 | 33.6175 | 500     | 700     | 941.4   | 4591.7 | 152.5  | 84367.1  |
| C17, C24       | 17.0212 | 64.9496 | 92803.5  | 31.2447 | 30.8356 | 31.6572 | 500     | 700     | 941.4   | 4433.8 | 196.4  | 93044.8  |
| C18, C23       | 17.0244 | 66.9496 | 101554.0 | 29.5676 | 29.1128 | 30.0255 | 500     | 700     | 941.4   | 4522.8 | 234.6  | 101818.8 |
| C19, C22       | 17.0266 | 68.9496 | 110364.7 | 28.1596 | 27.6806 | 28.6414 | 500     | 700     | 941.4   | 4800.5 | 264.7  | 110666.0 |
| C20, C21       | 17.0278 | 70.9496 | 119222.1 | 26.9623 | 26.4724 | 27.4546 | 500     | 700     | 941.4   | 5188.3 | 289.0  | 119570.2 |

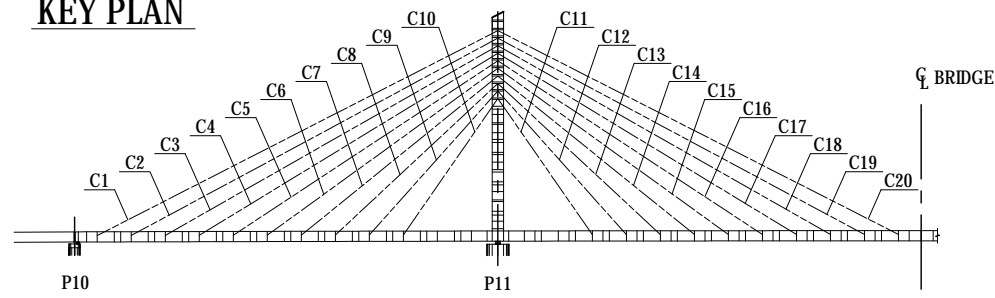
- NOTES:**
- S LENGTH OF CHORD.
  - 1 & 2 ANGLE BETWEEN CHORD AND HORIZONTAL.
  - 1 UNSTRESSED LENGTH OF STAY CABLE FROM WP3 TO WP4.
  - H HORIZONTAL TENSION OF STAY CABLE

# MAIN GIRDER ANCHORAGE OF STAY CABLES

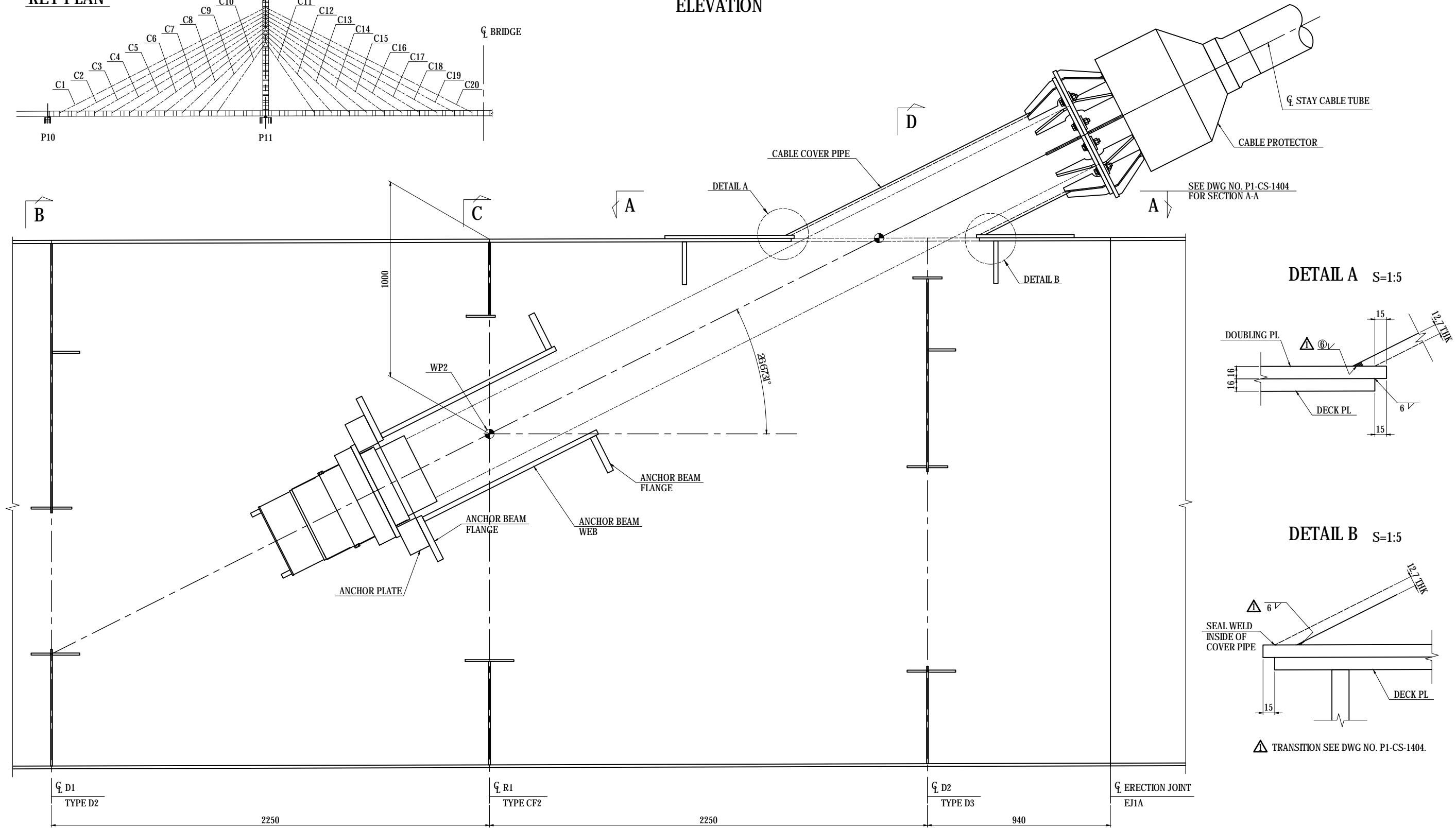
## CABLE NO.C1 (1)

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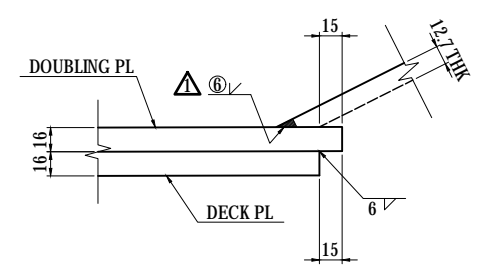
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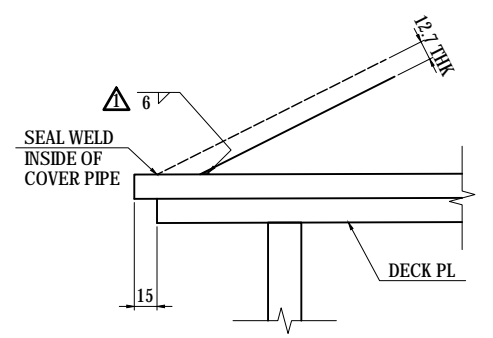
**ELEVATION**



**DETAIL A S=1:5**



**DETAIL B S=1:5**



△ TRANSITION SEE DWG NO. P1-CS-1404.

**B**  
SEE DWG NO. P1-CS-1405  
FOR DIAPHRAGM SECTION B-B

**C**  
SEE DWG NO. P1-CS-1406  
FOR CROSSFRAME SECTION C-C

**D**  
SEE DWG NO. P1-CS-1407  
FOR DIAPHRAGM SECTION D-D

|   |  |   |  |   |                                      |  |  |                                       |
|---|--|---|--|---|--------------------------------------|--|--|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>PREPARED BY T.TOMODA<br>CHECKED BY T. HAYAKAWA<br>APPROVED BY Y. SANO | SIGNATURE<br>友田 智雄<br>平川 知平<br>佐野 祐一 | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C1 (1) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1403 |
|---|--|---|--|---|--------------------------------------|--|--|---------------------------------------|



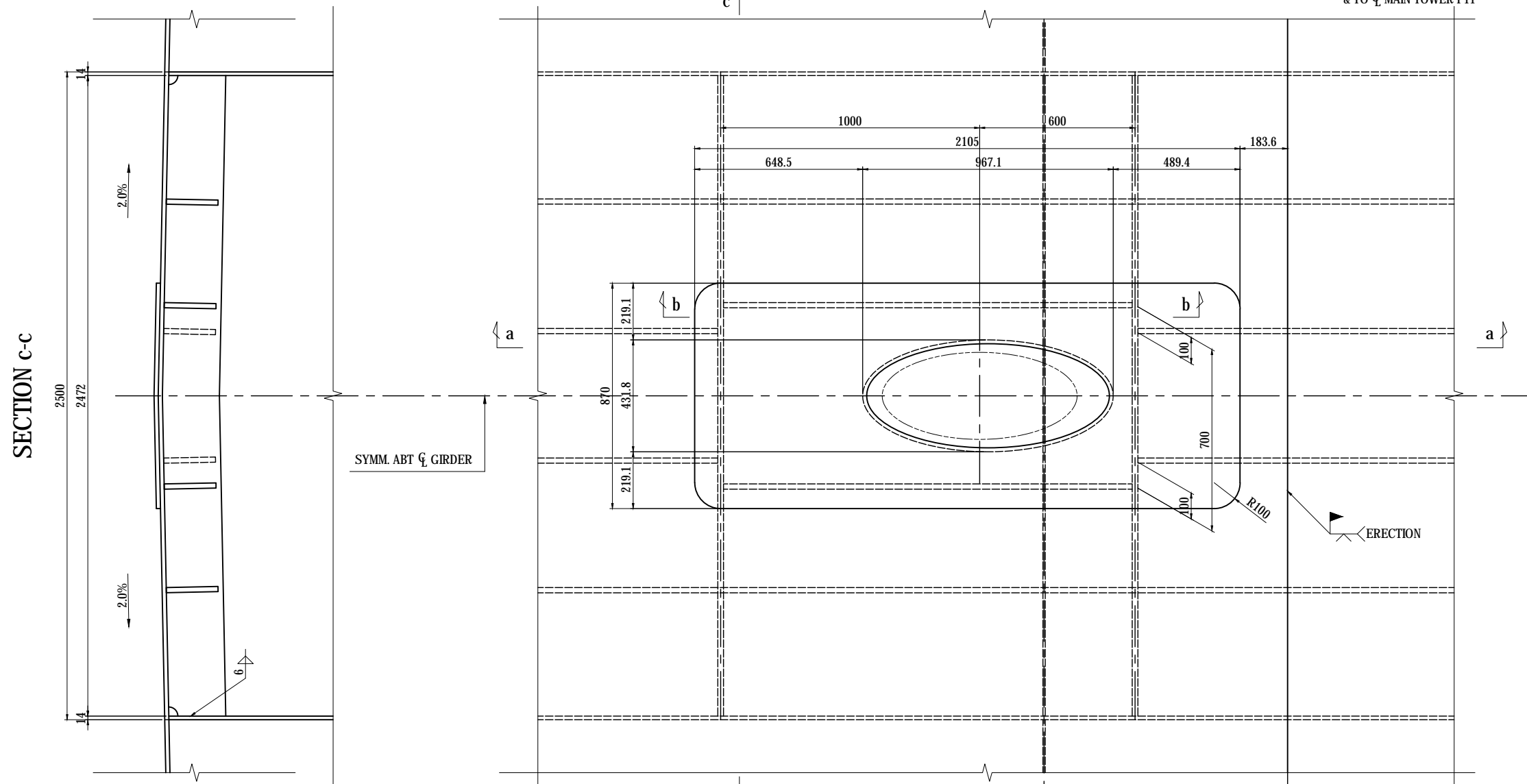
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C1 (2)

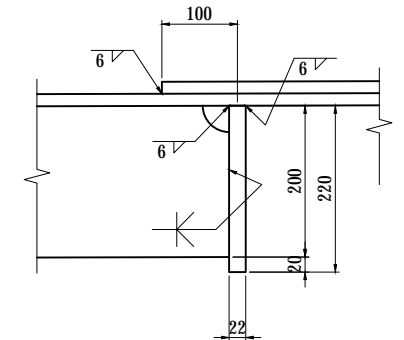
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### SECTION A-A

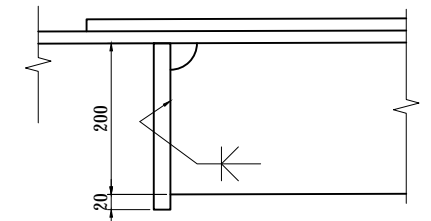
TO CL BRIDGE  
& TO CL MAIN TOWER P11



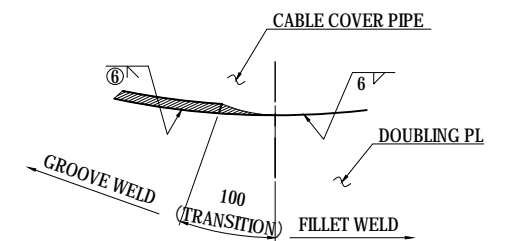
DETAIL A S=1:10



DETAIL B S=1:10



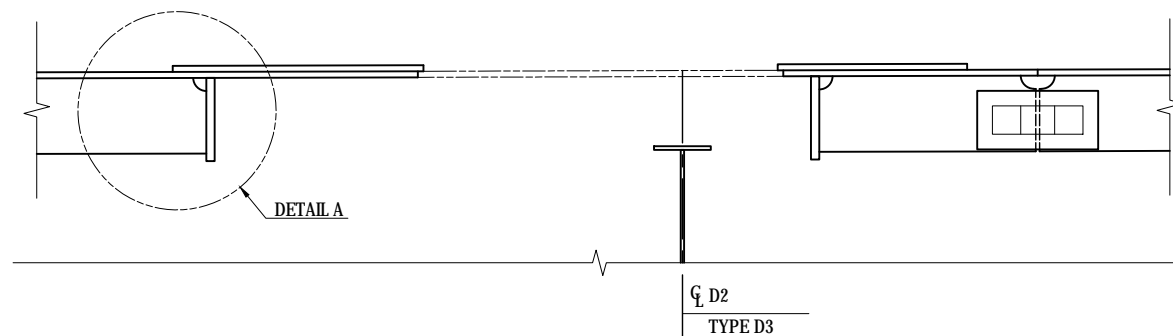
TRANSITION DETAIL ① S=1:10



SECTION a-a

- 1-PL 870 x 16 x 2105
- 2-RIB PL 220 x 22 x 2472
- 1-PIPE 457.2 x 12.7 x 1603 (STK400)
- 12-RIB PL 95 x 12 x 200
- 1-FLG PL 664 x 19 x 664

SECTION b-b



**NOTES:**

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1403.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

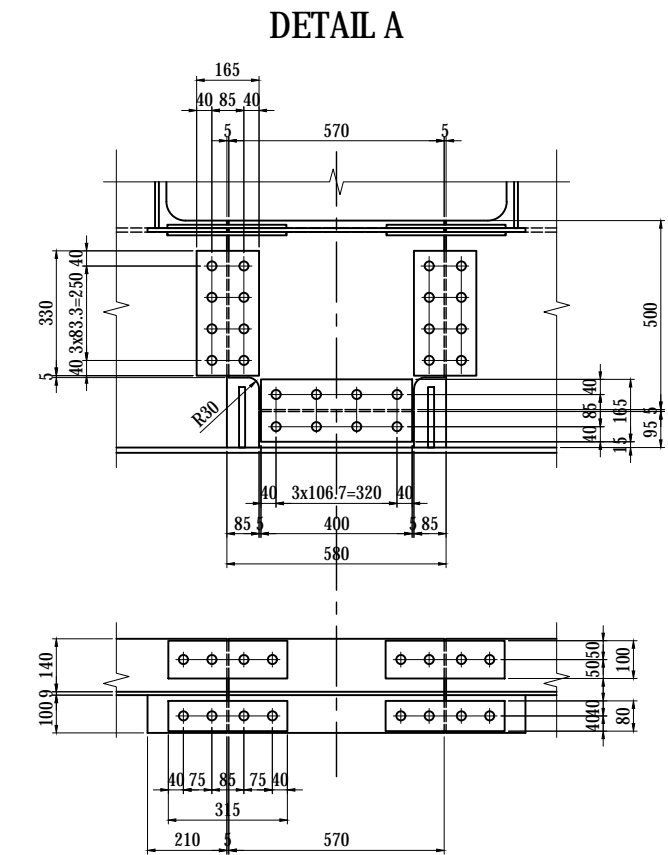
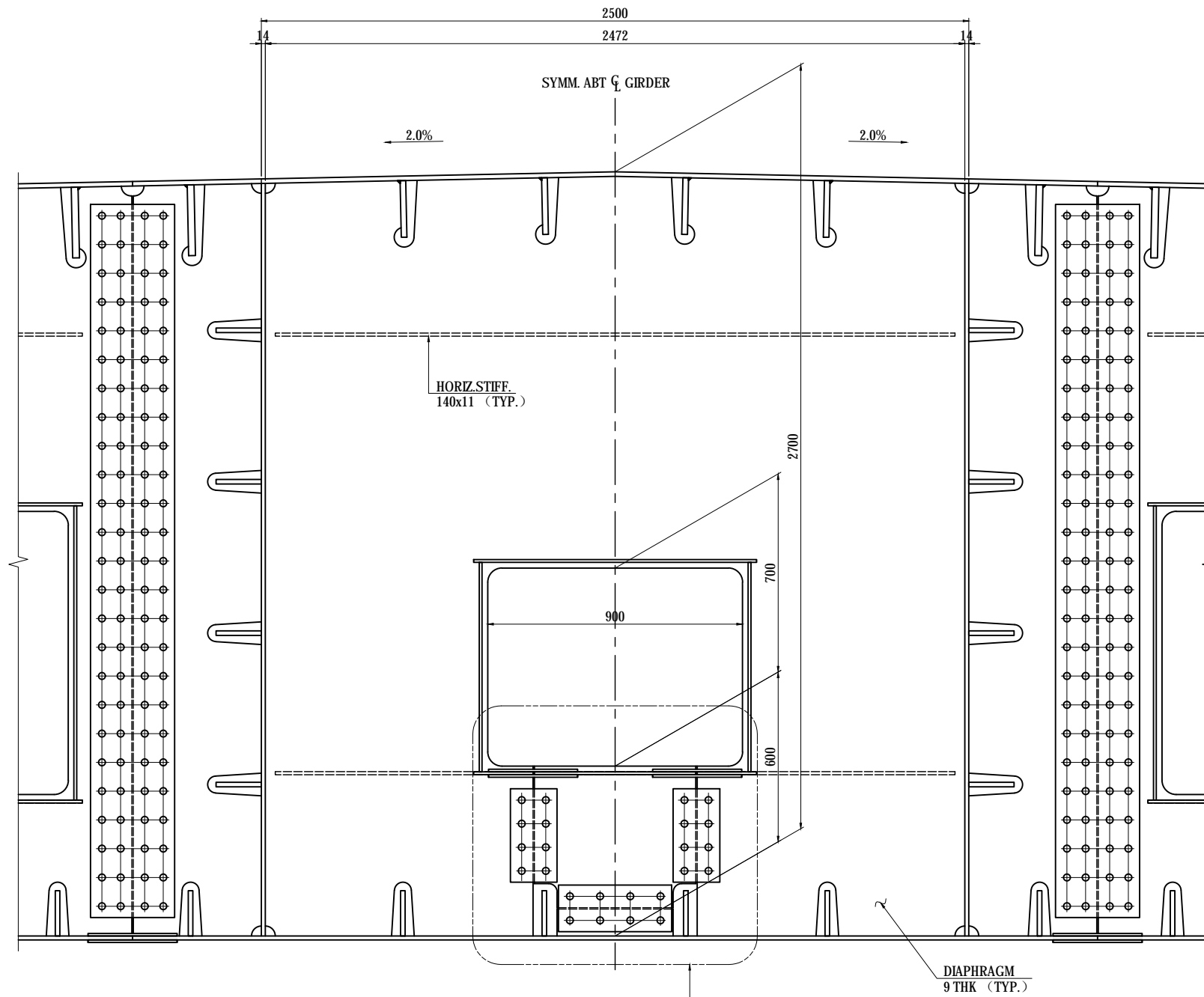
| <p>PROJECT NAME<br/>DETAILED DESIGN ON<br/>BAGO RIVER BRIDGE<br/>CONSTRUCTION PROJECT</p> | <p>FINANCED BY<br/> JAPAN INTERNATIONAL<br/>COOPERATION AGENCY</p> | <p>COUNTERPART<br/> REPUBLIC OF THE UNION OF MYANMAR<br/>MINISTRY OF CONSTRUCTION<br/>DEPARTMENT OF BRIDGE</p> | <p>JICA STUDY TEAM<br/> NIPPON KOEI CO., LTD.<br/>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br/>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br/>CHODAI CO., LTD.<br/>NIPPON ENGINEERING CONSULTANTS CO., LTD.</p> | <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: 20%;">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 | <p>DRAWING TITLE<br/><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C1 (2)</b></p> | <p>PACKAGE<br/>1<br/>DWG No.<br/>P1-CS-1404</p> |
|---|--|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|---|
|   | NAME   | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |   |
| PREPARED BY   | T.TOMODA   |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |   |
| CHECKED BY  | T. HAYAKAWA  |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |   |
| APPROVED BY   | Y. SANO  |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |   |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C1 (3)

S=1:20

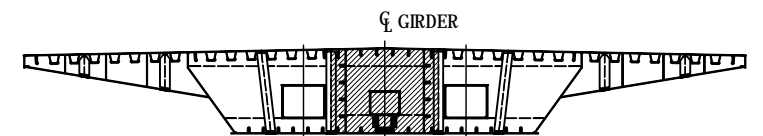
### DIAPHRAGM D1 SECTION B-B



- 1-PL 95 x 9 x 410
- 1-PL 500 x 9 x 570
- 2-SPL PL 165 x 9 x 400 (SS400)
- 8-TCB M22 x 65 (S10T)
- 4-SPL PL 165 x 9 x 330 (SS400)
- 16-TCB M22 x 65 (S10T)
- 1-HSTIF PL 140 x 11 x 570
- 4-SPL PL 100 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)
- 1-COLLAR PL 100 x 10 x 570
- 2-COLLAR PL 100 x 10 x 210
- 4-SPL PL 80 x 9 x 315
- 8-TCB M22 x 65 (S10T)

- NOTES:**
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1403.
  - 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107 DIAPHRAGM TYPE D1.
  - 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

### KEY DIAGRAM



- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 1-HSTIF PL 140 x 11 x 2402
- 2-HSTIF PL 140 x 11 x 911
- 2-COLLAR PL 100 x 10 x 1000
- 4-COLLAR PL 90 x 10 x 740

INSTALLATION AFTER ANCHOR THE STAY CABLE  
DETAIL A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C1 (3)</b> | 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-1405 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

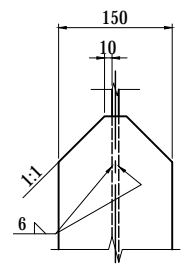
## CABLE NO.C1 (4)

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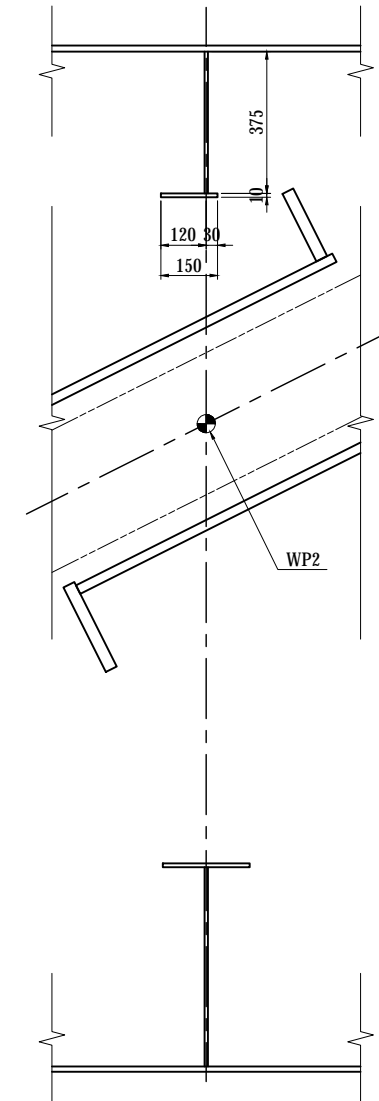
### CROSSFRAME R1 SECTION C-C

2-WEB PL 453 x 9 x 2659 (SM490YA)  
 2-FLG PL 150 x 10 x 1206 (SM490YA)  
 4-FLG PL 116 x 10 x 453 (SM490YA)  
 4-FLG PL 111 x 16 x 453 (SM490YA)  
 1-WEB PL 375 x 9 x 2472 (SM490YA)  
 1-FLG PL 150 x 10 x 2472 (SM490YA)  
 1-WEB PL 527 x 9 x 2472  
 1-FLG PL 230x 10 x 2472

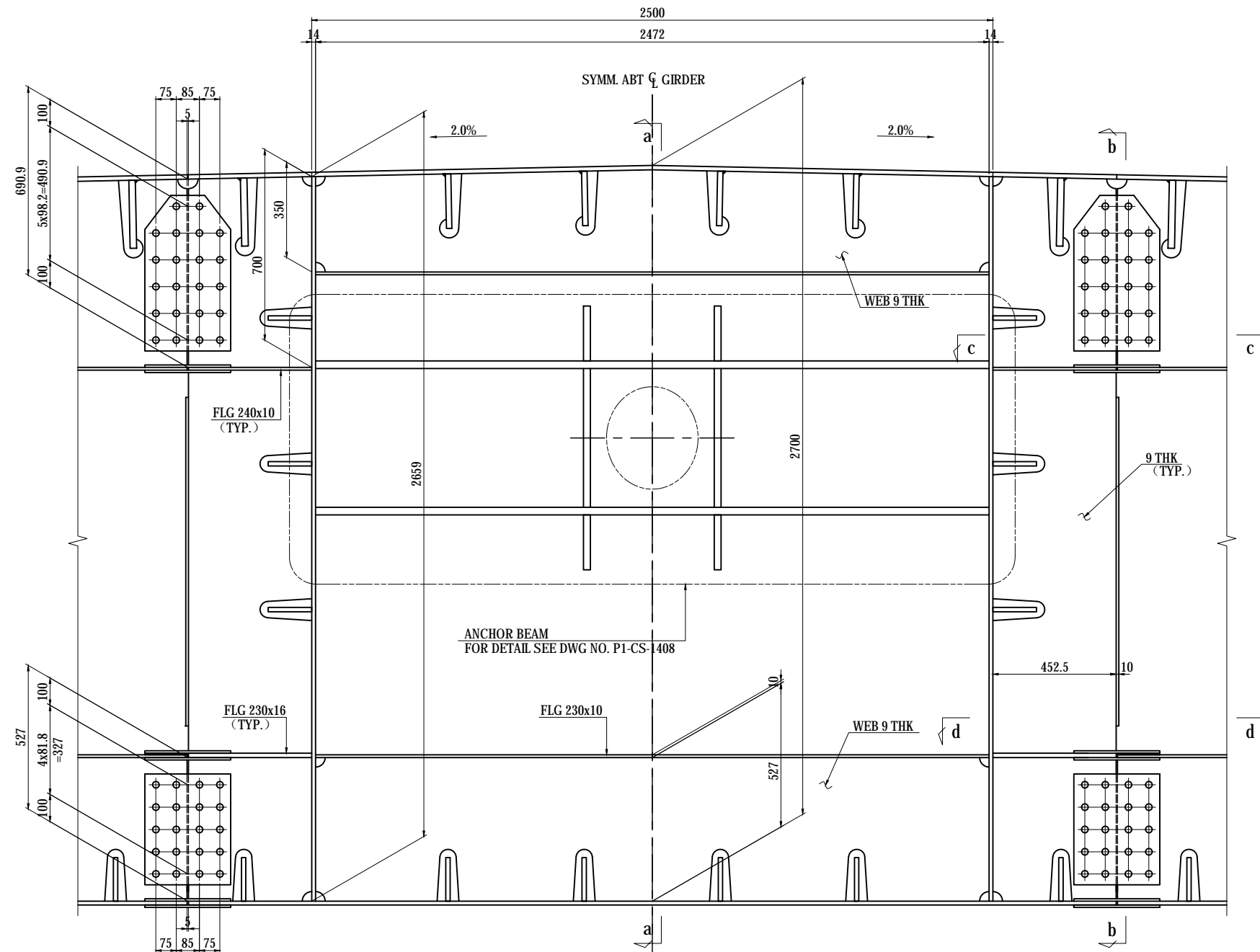
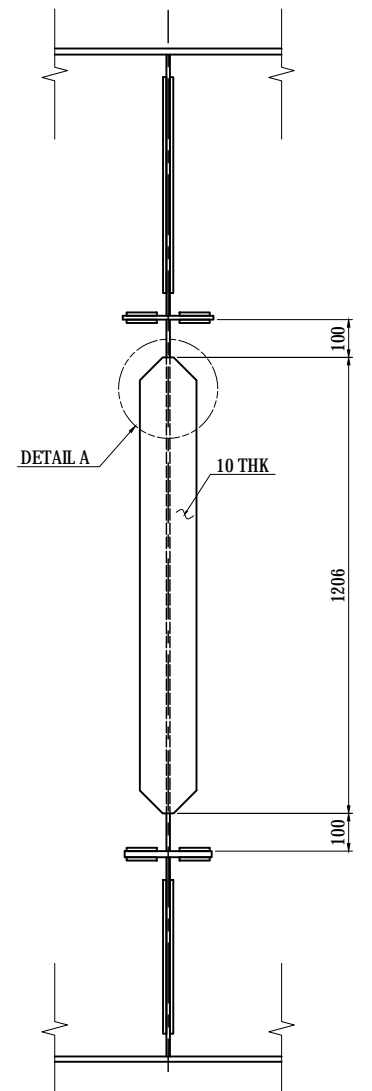
#### DETAIL A S=1:10



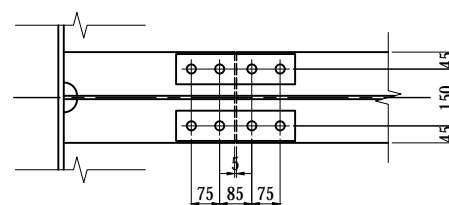
#### SECTION a-a



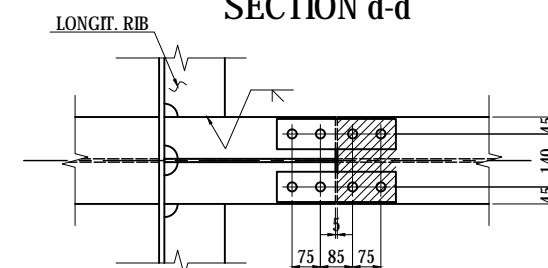
#### SECTION b-b



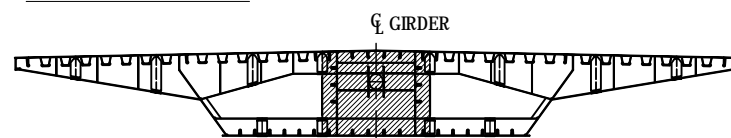
#### SECTION c-c



#### SECTION d-d



#### KEY DIAGRAM



#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1403.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C1 (4)</b> | 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-1406 |

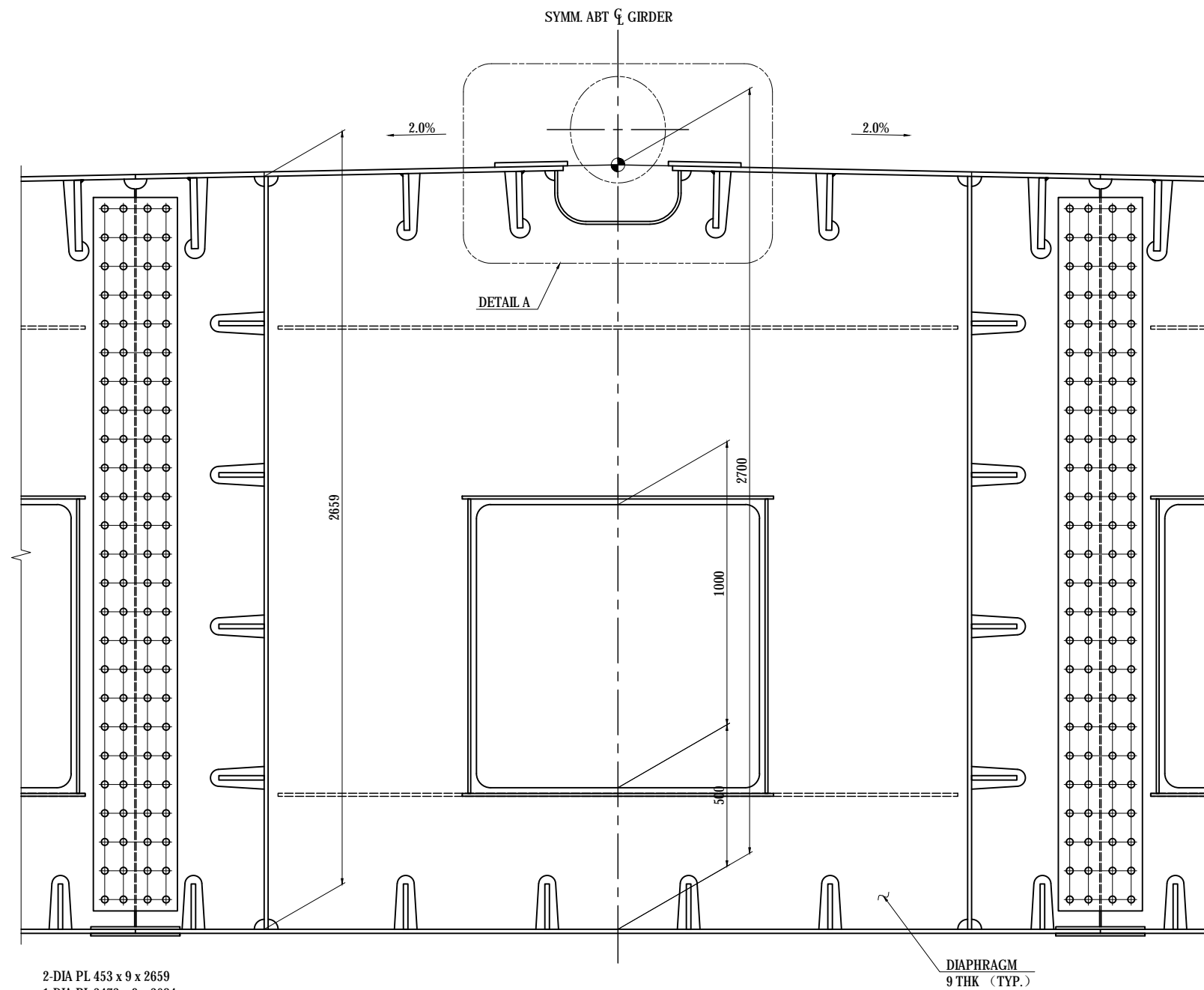
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C1 (5)

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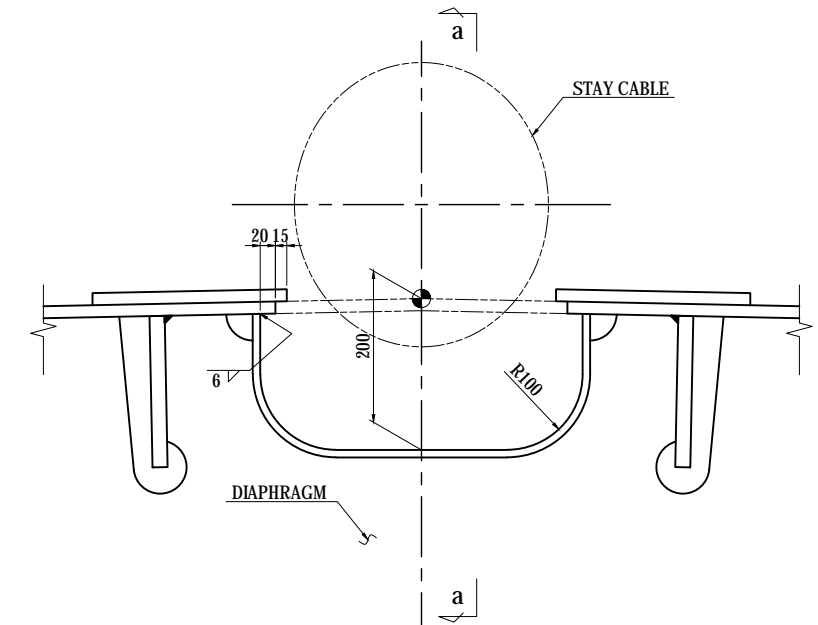
### DIAPHRAGM D2

### SECTION D-D

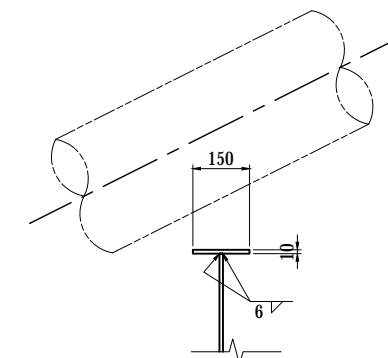


- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 2-HSTIF PL 140 x 11 x 2402
- 3-COLLAR PL 100 x 10 x 1100
- 4-COLLAR PL 90 x 10 x 1040
- 1-FLG PL 150 x 10 x 715

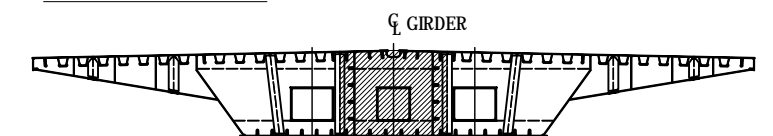
### DETAIL A S=1:10



### SECTION a-a S=1:20



### KEY DIAGRAM



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1403.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107 DIAPHRAGM TYPE D1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

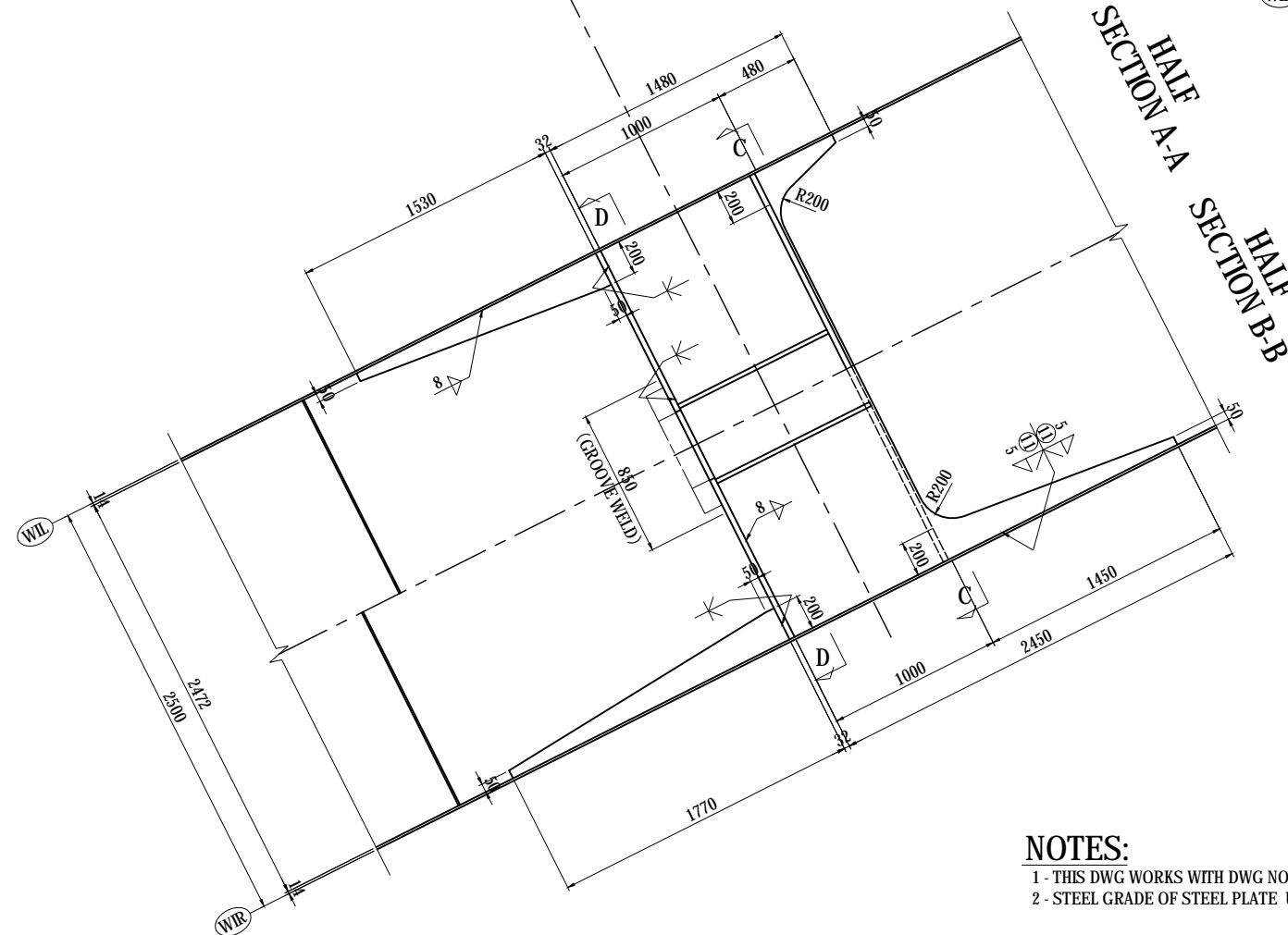
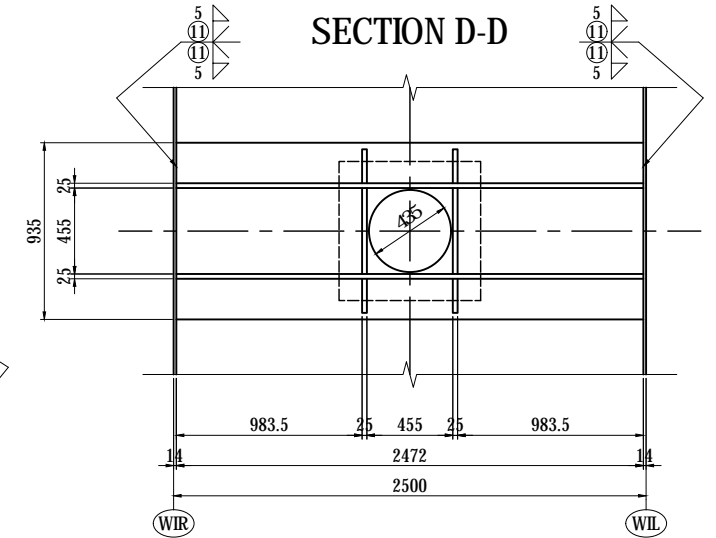
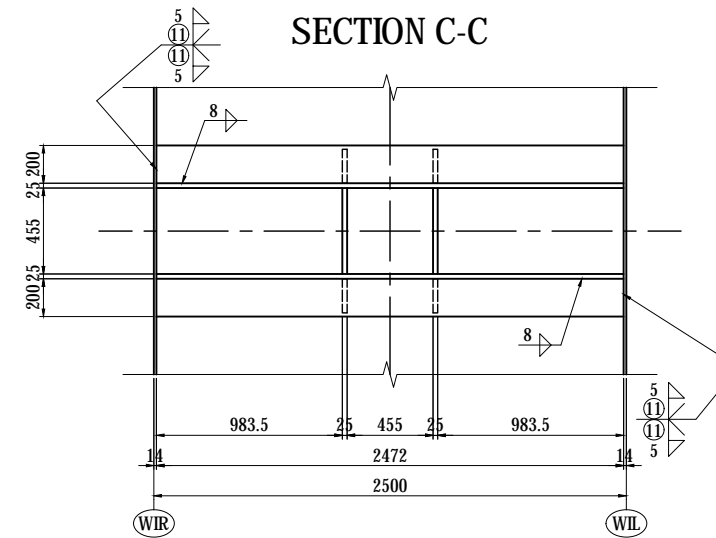
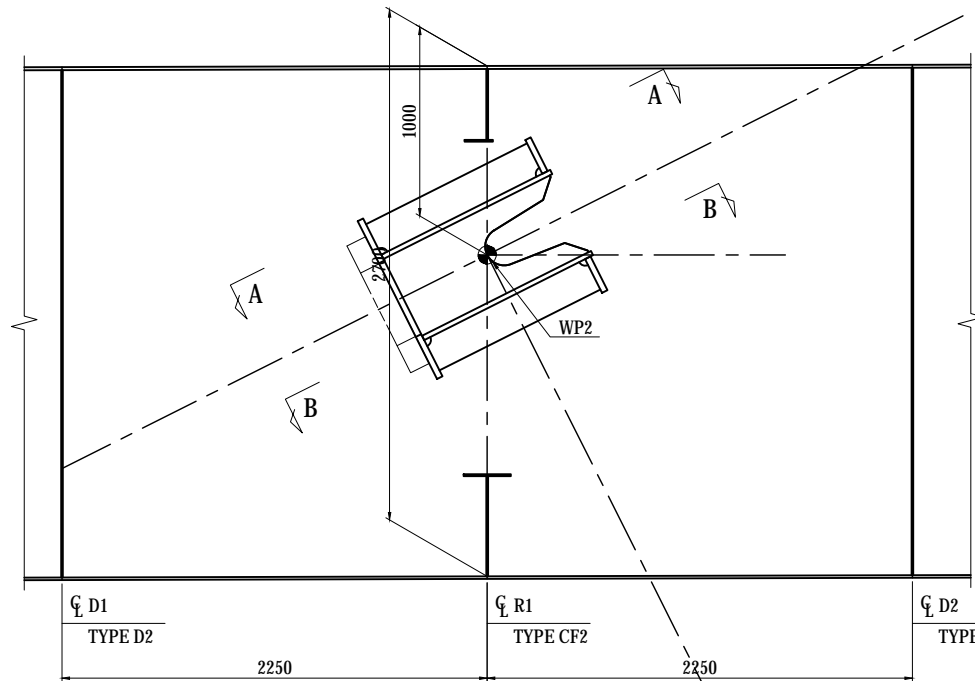
| PROJECT NAME  | FINANCED BY                                 | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE | DATE         | DRAWING TITLE  | PACKAGE    |
|---|---|--|---|-------------|-----------|--------------|--|------------|
| DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT | 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 | MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C1 (5) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov.2017 |  | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov.2017 |  | P1-CS-1407 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C1 (6)

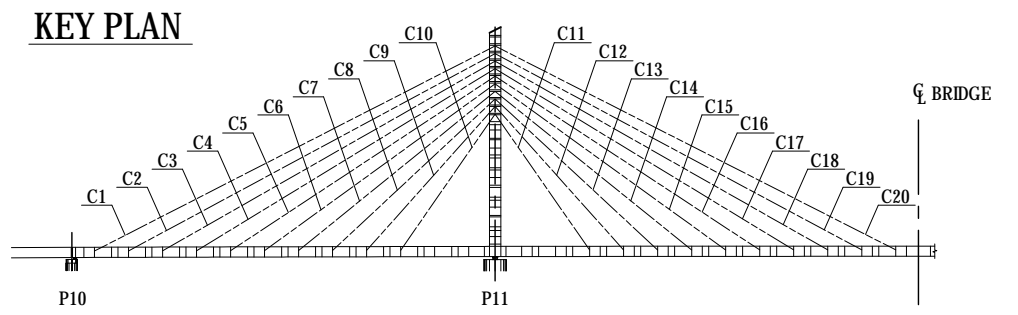
S=1:40

**ANCHOR BEAM C1**



- 1-FLG PL 935 x 32 x 2472(SM490YB)
- 2-FLG PL 200 x 32 x 2472(SM490YB)
- 1-WEB PL 2450 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1770(SM490YB)
- 1-WEB PL 1480 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1530(SM490YB)
- 2-RIB PL 455 x 25 x 985(SM490YB)
- 4-RIB PL 180 x 25 x 953(SM490YB)
- 1- PL 750 x 110 x 750(SM400C-H)

**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1406.  
 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A



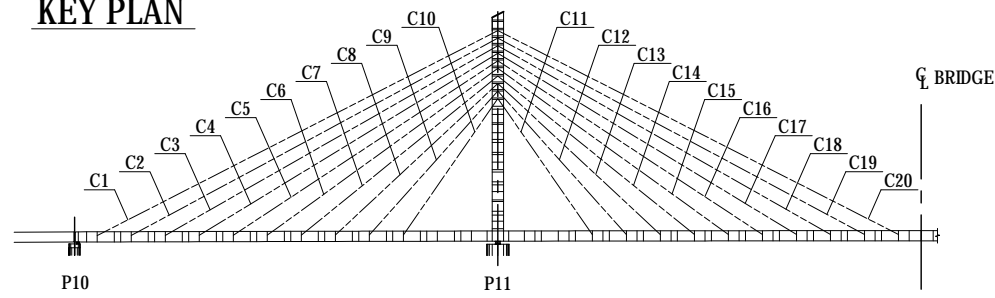
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|---|--|---|--|---|--------------------------------------|--|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>NIPPON ENGINEERING CONSULTANTS CO.,LTD. | NAME<br>PREPARED BY T.TOMODA<br>CHECKED BY T. HAYAKAWA<br>APPROVED BY Y. SANO | SIGNATURE<br>友田 隆雄<br>平川 知平<br>佐野 祐一 | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C1 (6)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1408 |
|---|--|---|--|---|--------------------------------------|--|---|---------------------------------------|

# MAIN GIRDER ANCHORAGE OF STAY CABLES

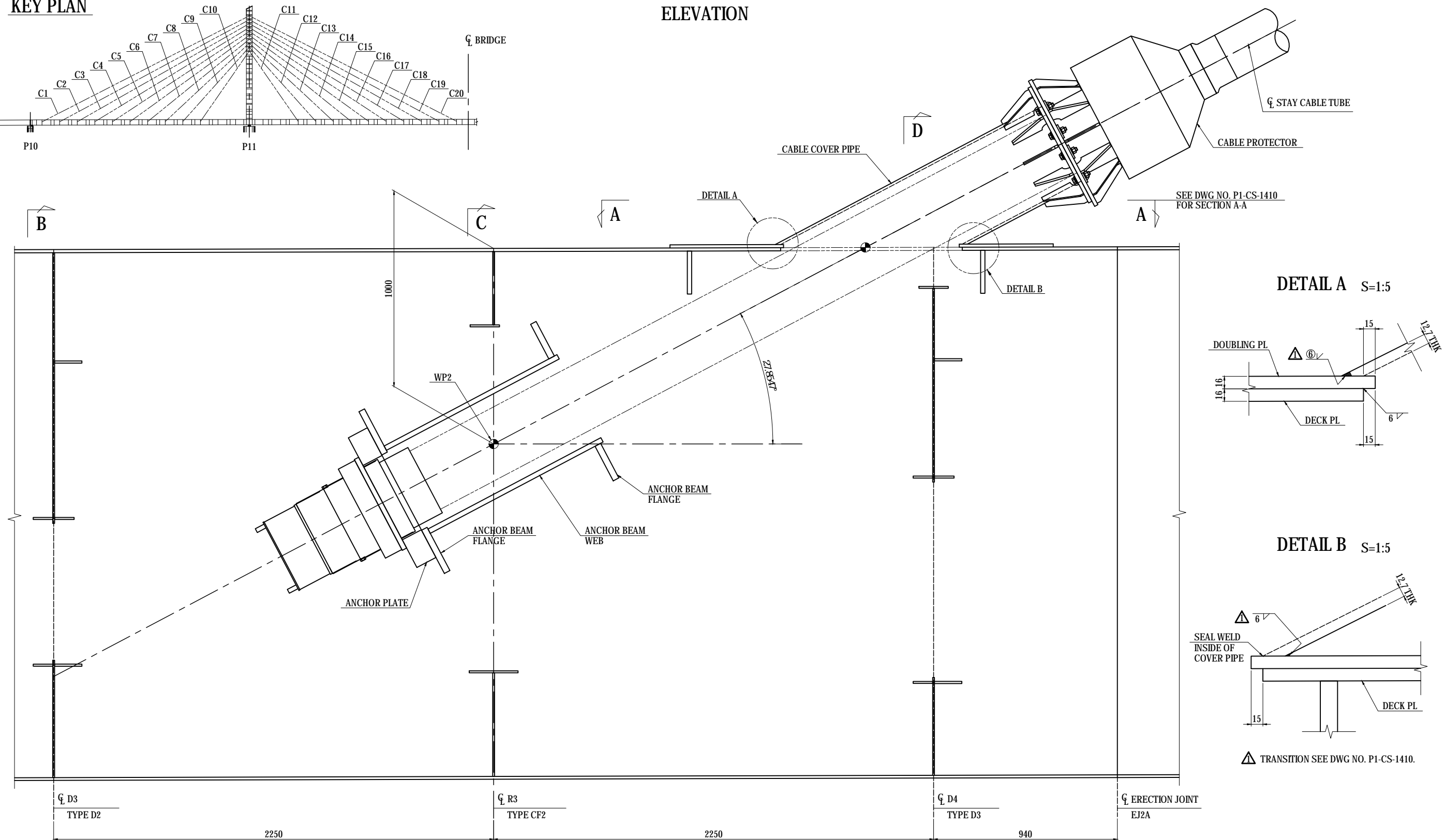
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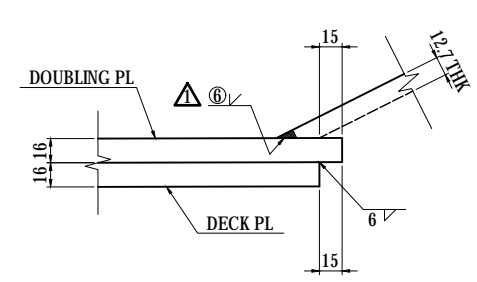
**KEY PLAN**



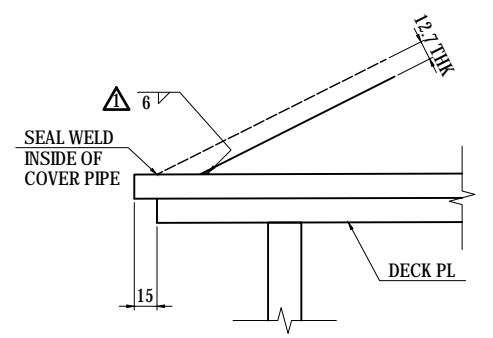
**ELEVATION**



**DETAIL A S=1:5**



**DETAIL B S=1:5**



△ TRANSITION SEE DWG NO. P1-CS-1410.

**B**  
SEE DWG NO. P1-CS-1411  
FOR DIAPHRAGM SECTION B-B

**C**  
SEE DWG NO. P1-CS-1412  
FOR CROSSFRAME SECTION C-C

**D**  
SEE DWG NO. P1-CS-1413  
FOR DIAPHRAGM SECTION D-D

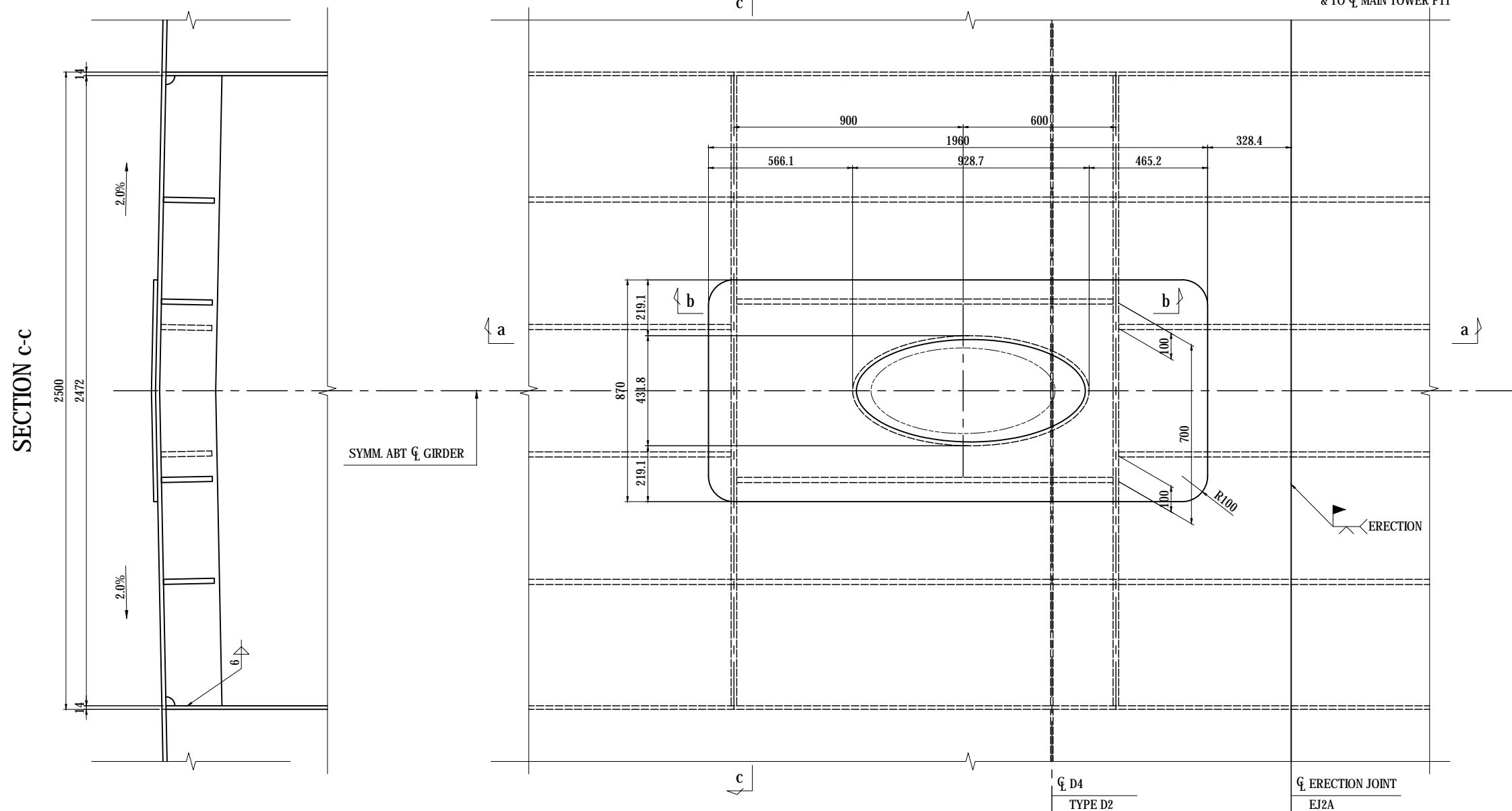
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C2 (1)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1409 |
|---|--|---|--|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|---|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |

# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C2 (2)

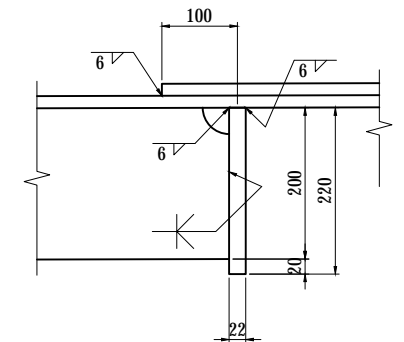
S=1:20

## SECTION A-A

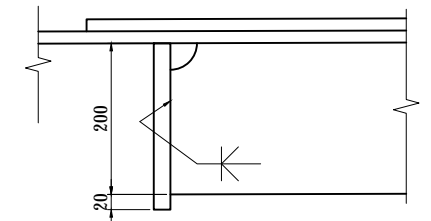
TO CL BRIDGE  
& TO CL MAIN TOWER P11



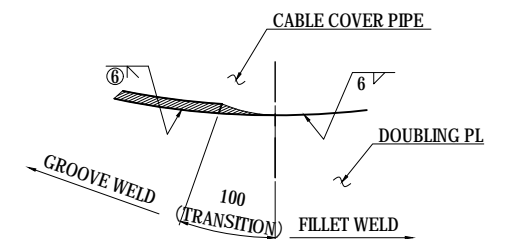
DETAIL A S=1:10



DETAIL B S=1:10



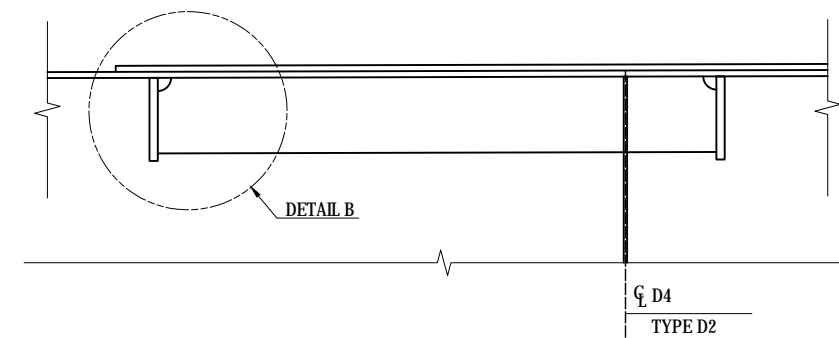
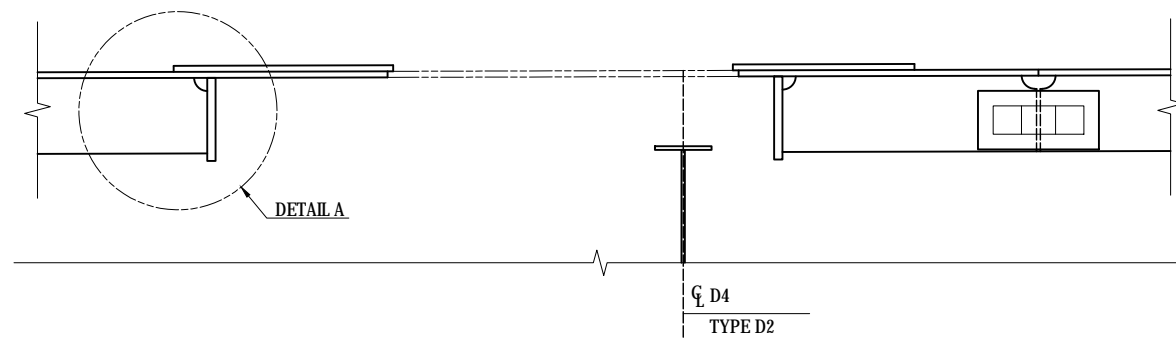
TRANSITION DETAIL ① S=1:10



- 1-PL 870 x 16 x 1960
- 2-RIB PL 220 x 22 x 2472
- 1-PIPE 457.2 x 12.7 x 1535 (STK400)
- 12-RIB PL 95 x 12 x 200
- 1-FLG PL 664 x 19 x 664

SECTION a-a

SECTION b-b



**NOTES:**

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1409.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| <p>PROJECT NAME<br/>DETAILED DESIGN ON<br/>BAGO RIVER BRIDGE<br/>CONSTRUCTION PROJECT</p> | <p>FINANCED BY<br/> JAPAN INTERNATIONAL<br/>COOPERATION AGENCY</p> | <p>COUNTERPART<br/> REPUBLIC OF THE UNION OF MYANMAR<br/>MINISTRY OF CONSTRUCTION<br/>DEPARTMENT OF BRIDGE</p> | <p>JICA STUDY TEAM<br/> NIPPON KOEI CO., LTD.<br/>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br/>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br/>CHODAI CO., LTD.<br/>NIPPON ENGINEERING CONSULTANTS CO., LTD.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | <p>DRAWING TITLE<br/><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C2 (2)</b></p> | <p>PACKAGE<br/>1<br/>DWG No.<br/>P1-CS-1410</p> |
|---|--|--|---|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|--|---|
| NAME  | SIGNATURE  | DATE   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |

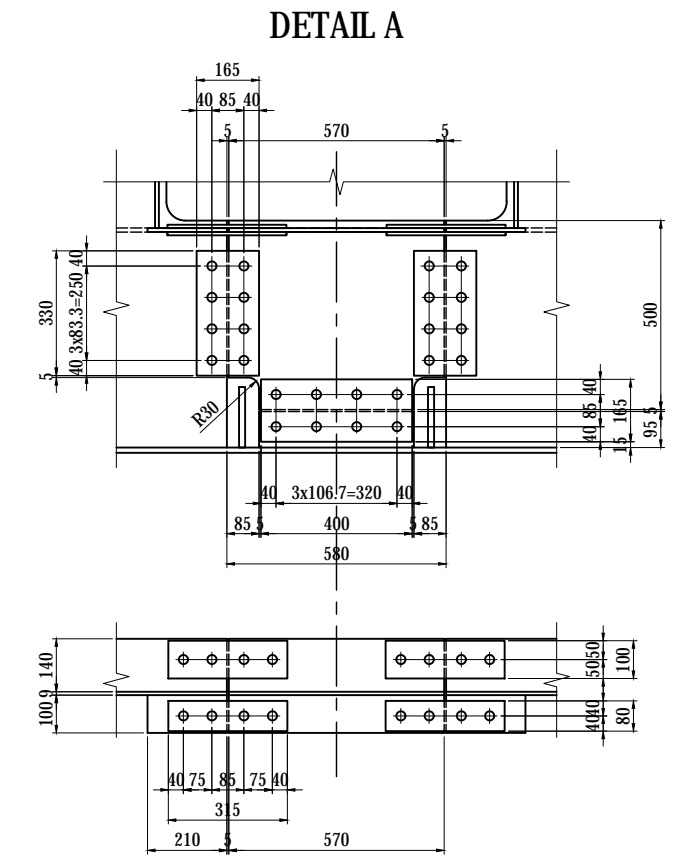
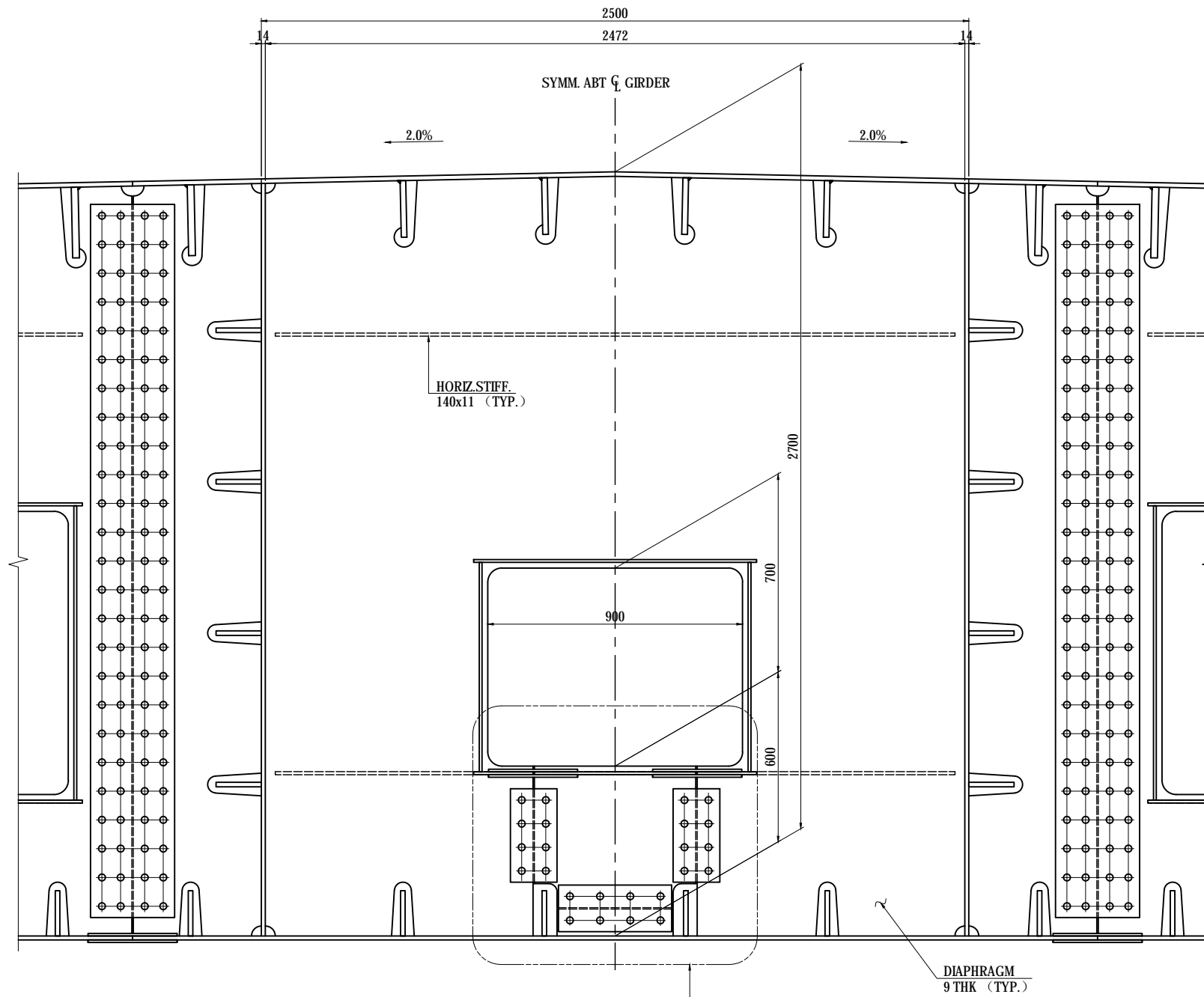
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C2 (3)

S=1:20

### DIAPHRAGM D3

### SECTION B-B

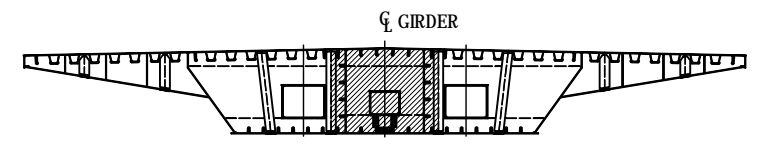


- 1-PL 95 x 9 x 410
- 1-PL 500 x 9 x 570
- 2-SPL PL 165 x 9 x 400 (SS400)
- 8-TCB M22 x 65 (S10T)
- 4-SPL PL 165 x 9 x 330 (SS400)
- 16-TCB M22 x 65 (S10T)
- 1-HSTIF PL 140 x 11 x 570
- 4-SPL PL 100 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)
- 1-COLLAR PL 100 x 10 x 570
- 2-COLLAR PL 100 x 10 x 210
- 4-SPL PL 80 x 9 x 315
- 8-TCB M22 x 65 (S10T)

- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 1-HSTIF PL 140 x 11 x 2402
- 2-HSTIF PL 140 x 11 x 911
- 2-COLLAR PL 100 x 10 x 1000
- 4-COLLAR PL 90 x 10 x 740

INSTALLATION AFTER ANCHOR THE STAY CABLE  
DETAIL A

### KEY DIAGRAM



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1409.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107 DIAPHRAGM TYPE D1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C2 (3)</b> | 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-1411 |



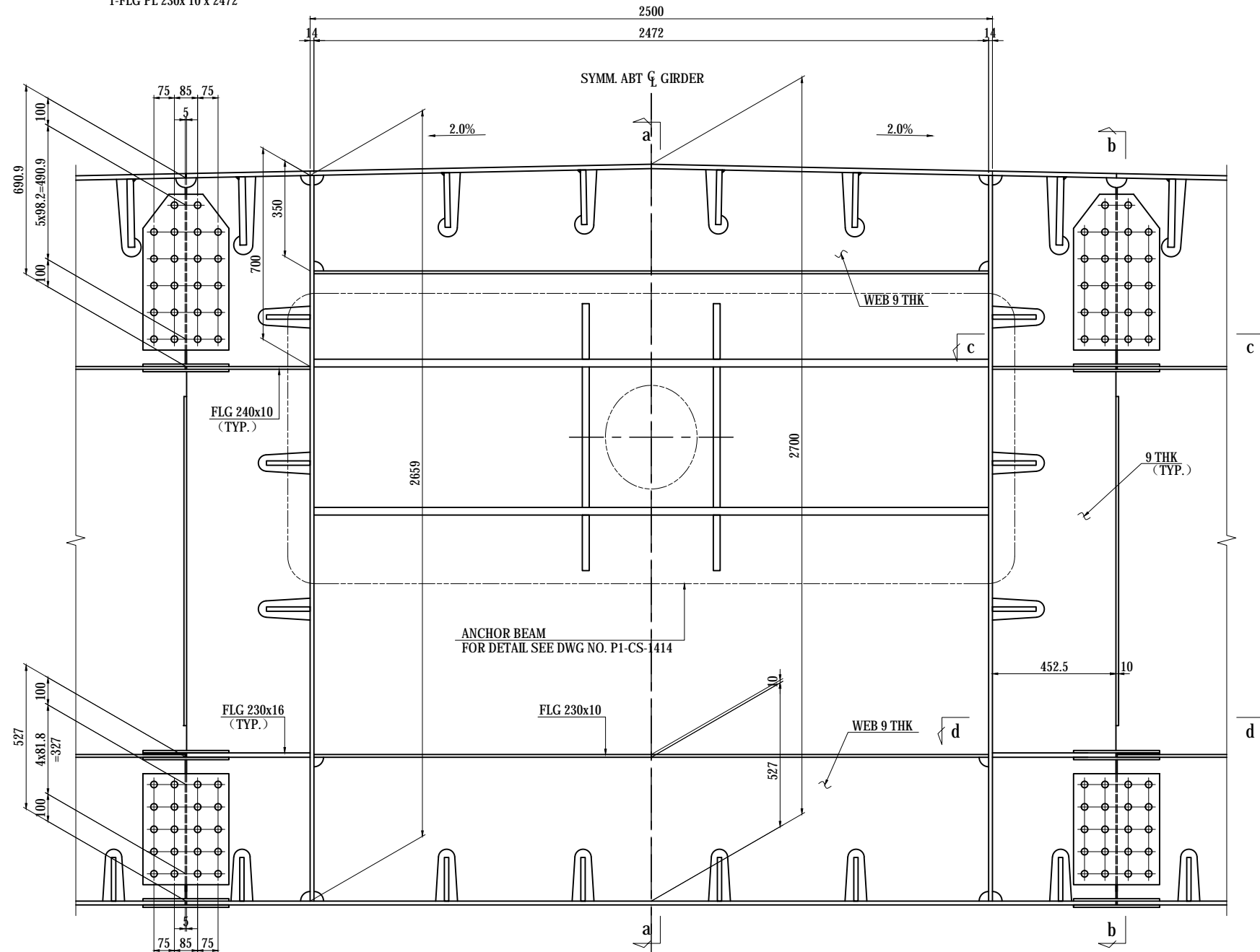
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C2 (4)

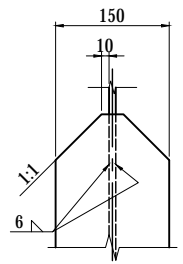
S=1:20

### CROSSFRAME R3 SECTION C-C

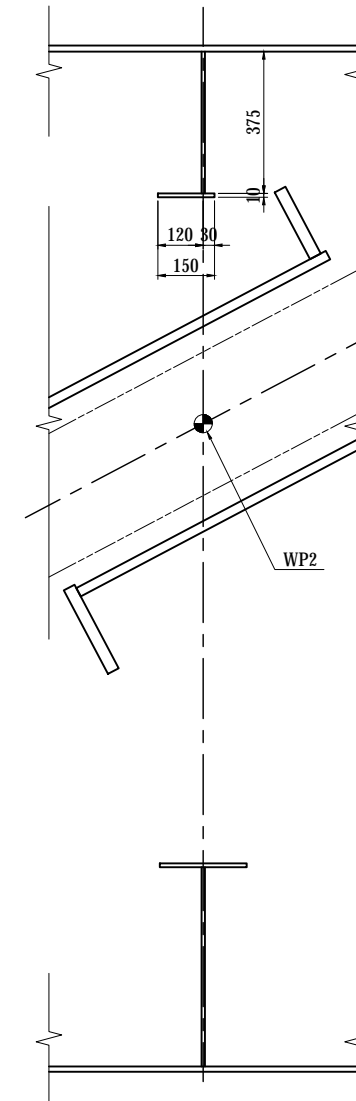
2-WEB PL 453 x 9 x 2659 (SM490YA)  
2-FLG PL 150 x 10 x 1206 (SM490YA)  
4-FLG PL 116 x 10 x 453 (SM490YA)  
4-FLG PL 111 x 16 x 453 (SM490YA)  
1-WEB PL 375 x 9 x 2472 (SM490YA)  
1-FLG PL 150 x 10 x 2472 (SM490YA)  
1-WEB PL 527 x 9 x 2472  
1-FLG PL 230x 10 x 2472



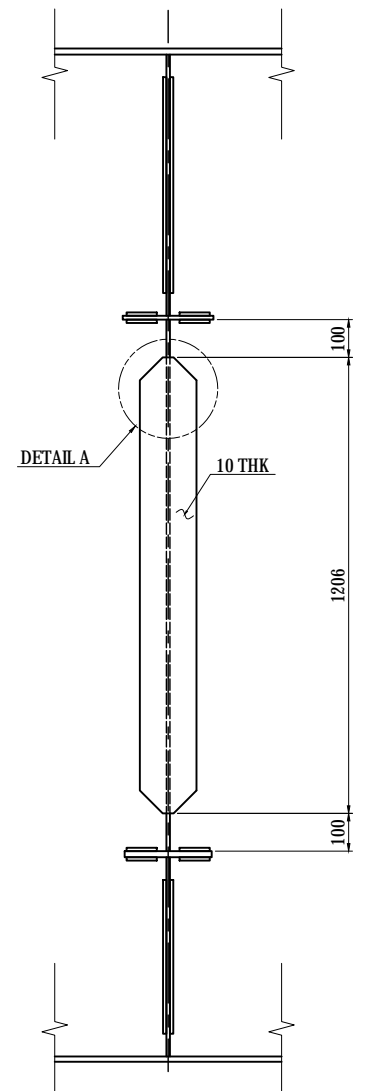
DETAIL A S=1:10



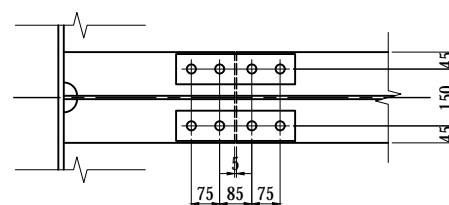
SECTION a-a



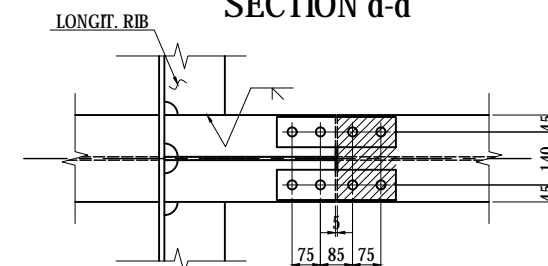
SECTION b-b



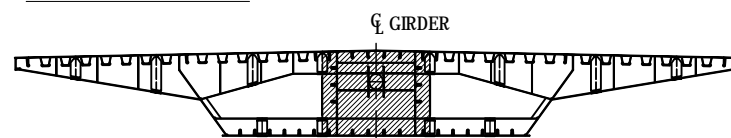
SECTION c-c



SECTION d-d



KEY DIAGRAM



#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1409.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>         CABLE NO.C2 (4)</b> | 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-1412 |

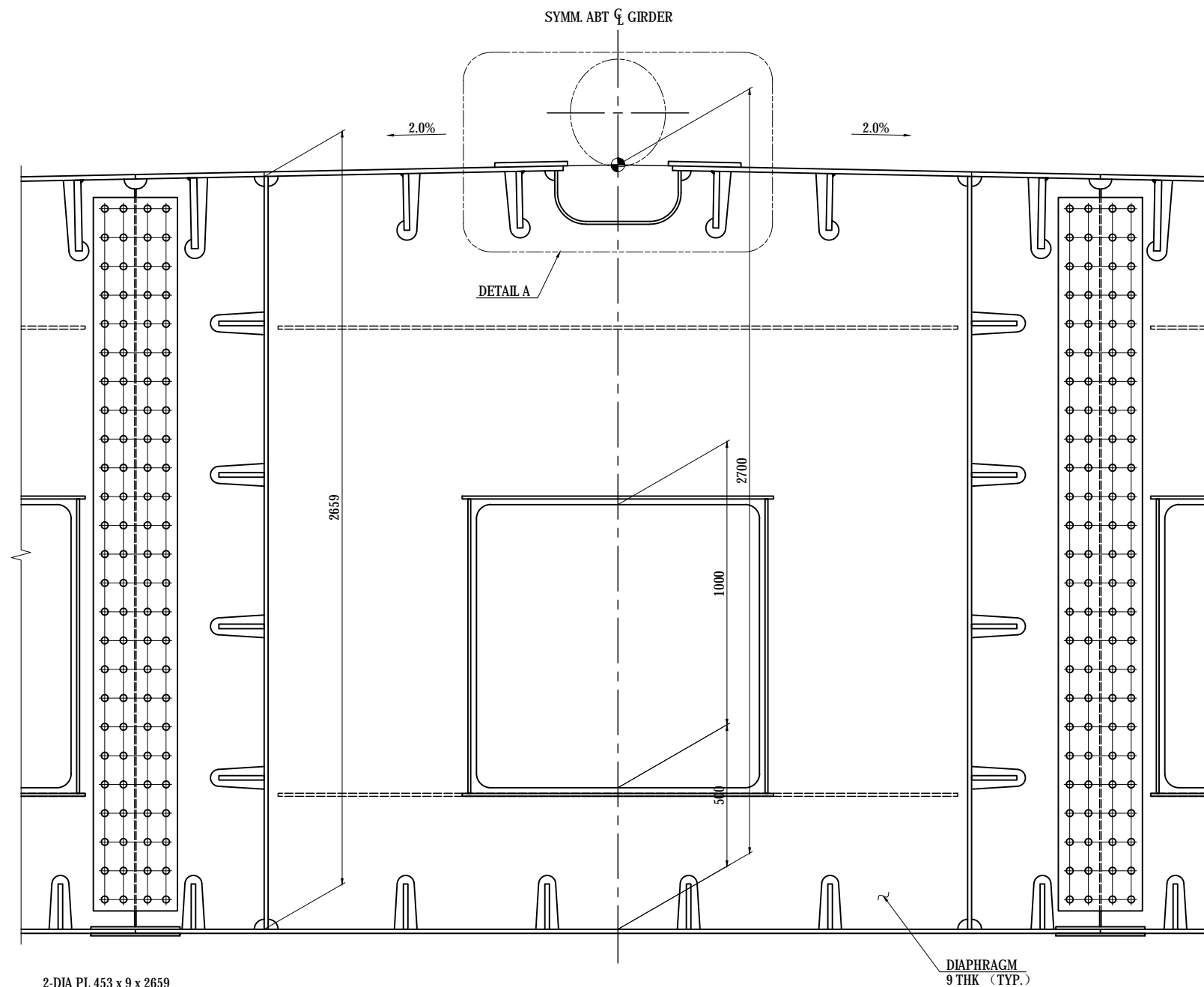
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C2 (5)

S=1:20

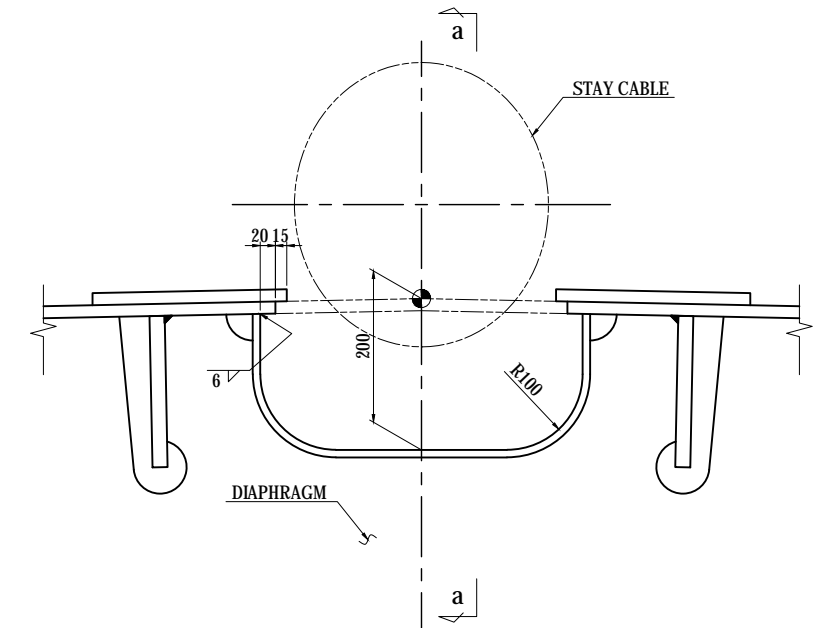
### DIAPHRAGM D4

### SECTION D-D

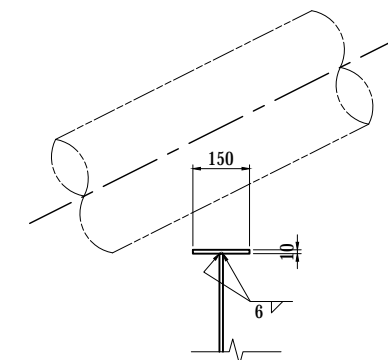


- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 2-HSTIF PL 140 x 11 x 2402
- 3-COLLAR PL 100 x 10 x 1100
- 4-COLLAR PL 90 x 10 x 1040
- 1-FLG PL 150 x 10 x 715

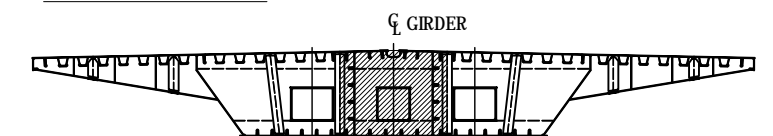
### DETAIL A S=1:10



### SECTION a-a S=1:20



### KEY DIAGRAM



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1409.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107  
DIAPHRAGM TYPE D1.
- 3 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

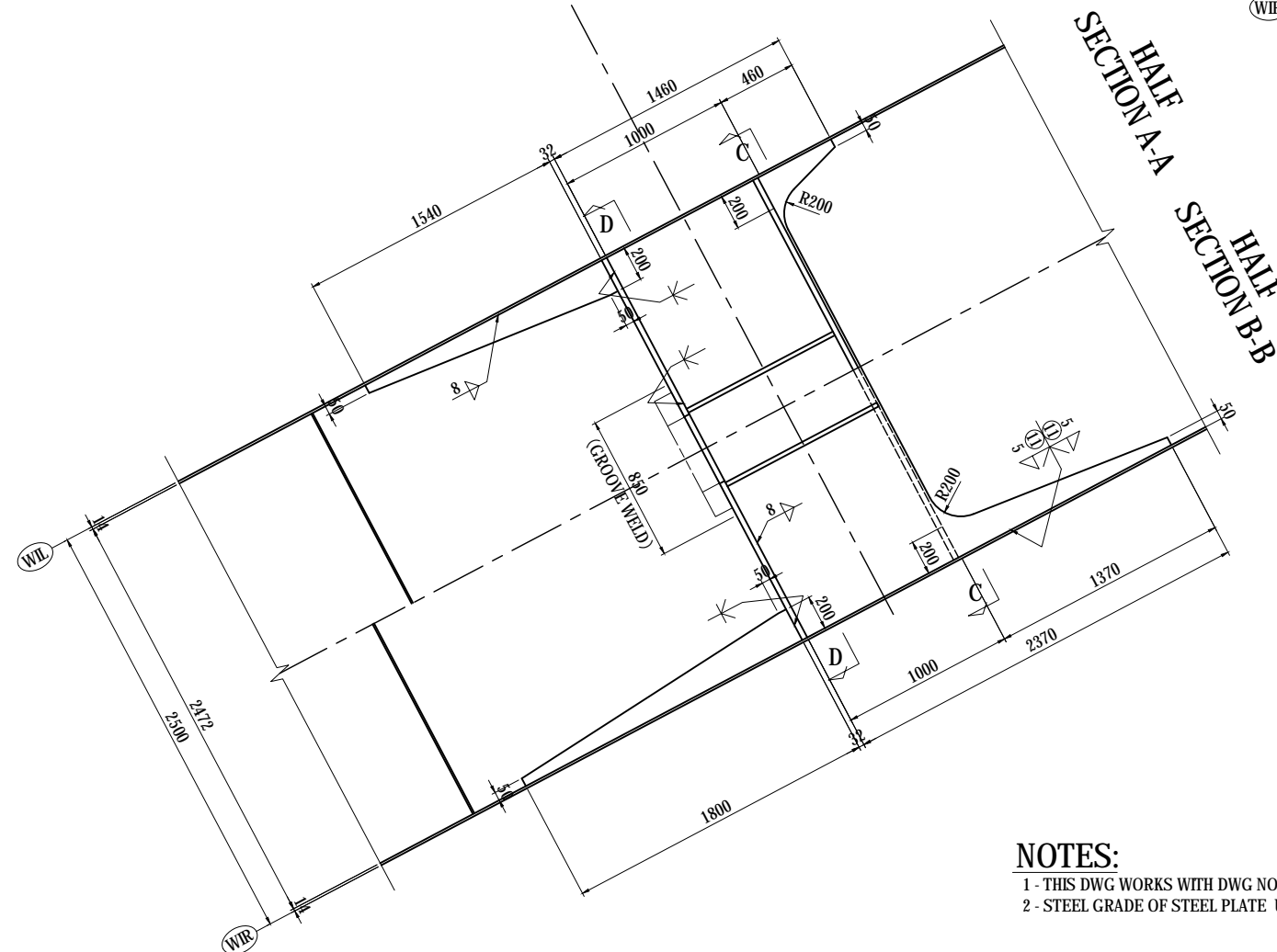
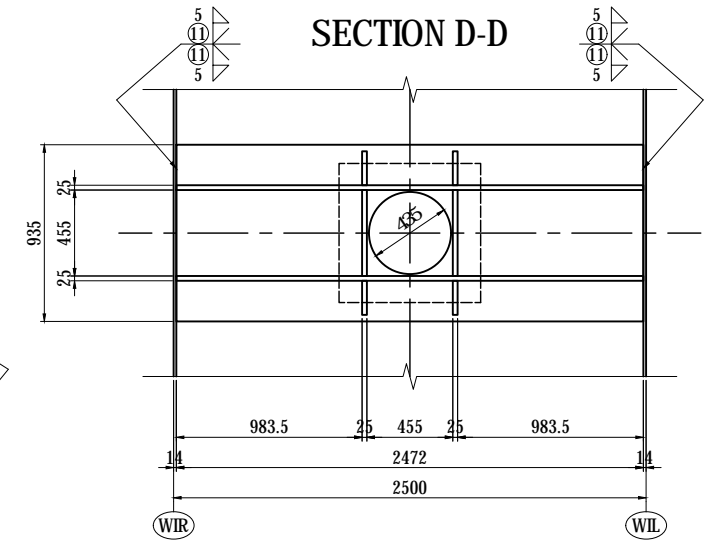
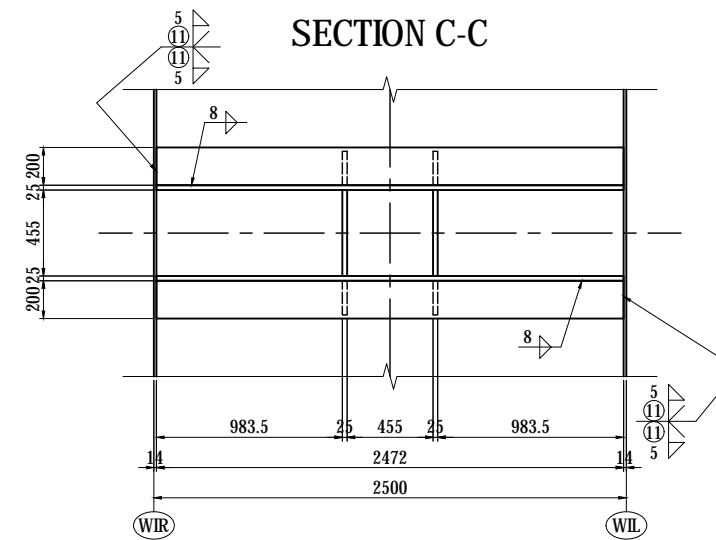
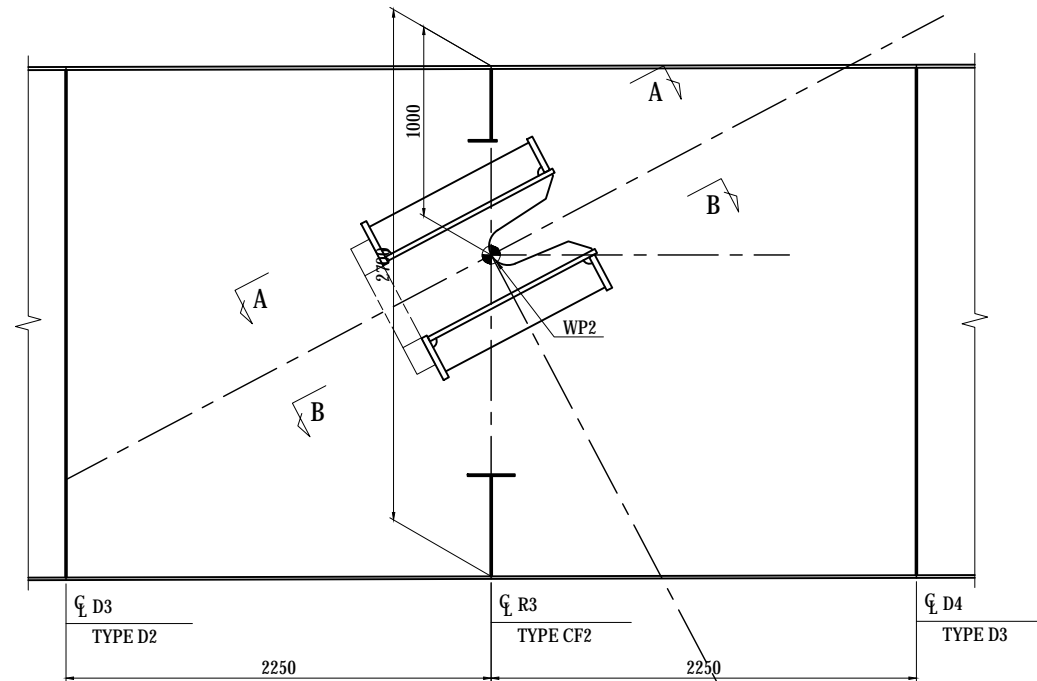
| PROJECT NAME  | FINANCED BY                                       | COUNTERPART  | JICA STUDY TEAM   | NAME                      | SIGNATURE | DATE         | DRAWING TITLE   | PACKAGE    |
|---|---|--|---|---------------------------|-----------|--------------|---|------------|
| DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | PREPARED BY<br>T.TOMODA   | 友田 隆雄     | 27. Nov.2017 | MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C2 (5) | 1          |
|   |   |  |   | CHECKED BY<br>T. HAYAKAWA | 平川 知平     | 28. Nov.2017 |   | DWG No.    |
|   |   |  |   | APPROVED BY<br>Y. SANO    | 佐野 祐一     | 29. Nov.2017 |   | P1-CS-1413 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C2 (6)

S=1:40

**ANCHOR BEAM C2**

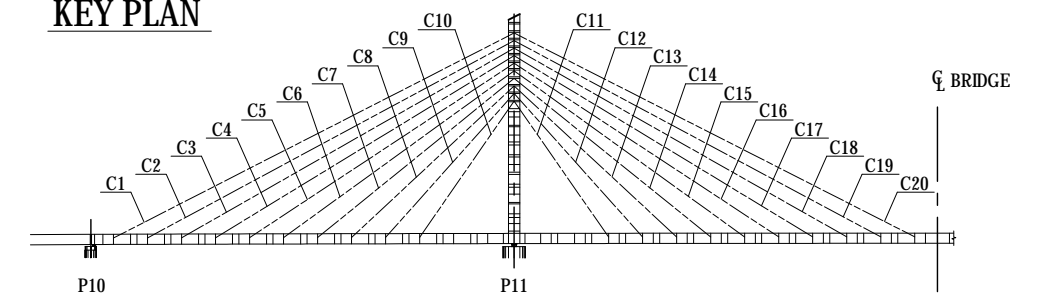


- 1-FLG PL 935 x 32 x 2472(SM490YB)
- 2-FLG PL 200 x 32 x 2472(SM490YB)
- 1-WEB PL 2370 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1800(SM490YB)
- 1-WEB PL 1460 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1540(SM490YB)
- 2-RIB PL 455 x 25 x 985(SM490YB)
- 4-RIB PL 180 x 25 x 953(SM490YB)
- 1- PL 750 x 110 x 750(SM400C-H)

**NOTES:**

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1412.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

**KEY PLAN**



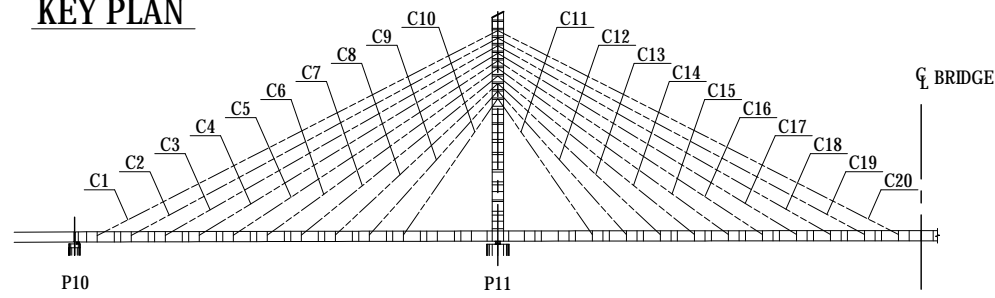
| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">NAME</th> <th style="width: 15%;">SIGNATURE</th> <th style="width: 15%;">DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY</td> <td>T.TOMODA</td> <td>友田 隆雄</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>平川 知平</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>佐野 祐一</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY | T.TOMODA | 友田 隆雄 | CHECKED BY | T. HAYAKAWA | 平川 知平 | APPROVED BY | Y. SANO | 佐野 祐一 | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">DRAWING TITLE</th> <th style="width: 40%;">PACKAGE</th> </tr> </thead> <tbody> <tr> <td rowspan="3" style="text-align: center;"> <b>MAIN GIRDER ANCHORAGE OF STAY CABLES</b><br/>                     CABLE NO.C2 (6)                 </td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">DWG No.</td> </tr> <tr> <td style="text-align: center;">P1-CS-1414</td> </tr> </tbody> </table> | DRAWING TITLE | PACKAGE | <b>MAIN GIRDER ANCHORAGE OF STAY CABLES</b><br>CABLE NO.C2 (6) | 1 | DWG No. | P1-CS-1414 |
|--|---|--|---|---|------|-----------|------|-------------|----------|-------|------------|-------------|-------|-------------|---------|-------|---|---------------|---------|--|---|---------|------------|
| NAME   | SIGNATURE   | DATE   |   |   |      |           |      |             |          |       |            |             |       |             |         |       |   |               |         |  |   |         |            |
| PREPARED BY  | T.TOMODA  | 友田 隆雄  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |   |               |         |  |   |         |            |
| CHECKED BY   | T. HAYAKAWA   | 平川 知平  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |   |               |         |  |   |         |            |
| APPROVED BY  | Y. SANO   | 佐野 祐一  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |   |               |         |  |   |         |            |
| DRAWING TITLE  | PACKAGE   |  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |   |               |         |  |   |         |            |
| <b>MAIN GIRDER ANCHORAGE OF STAY CABLES</b><br>CABLE NO.C2 (6)                                 | 1   |  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |   |               |         |  |   |         |            |
|  | DWG No.   |  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |   |               |         |  |   |         |            |
|  | P1-CS-1414  |  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |   |               |         |  |   |         |            |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

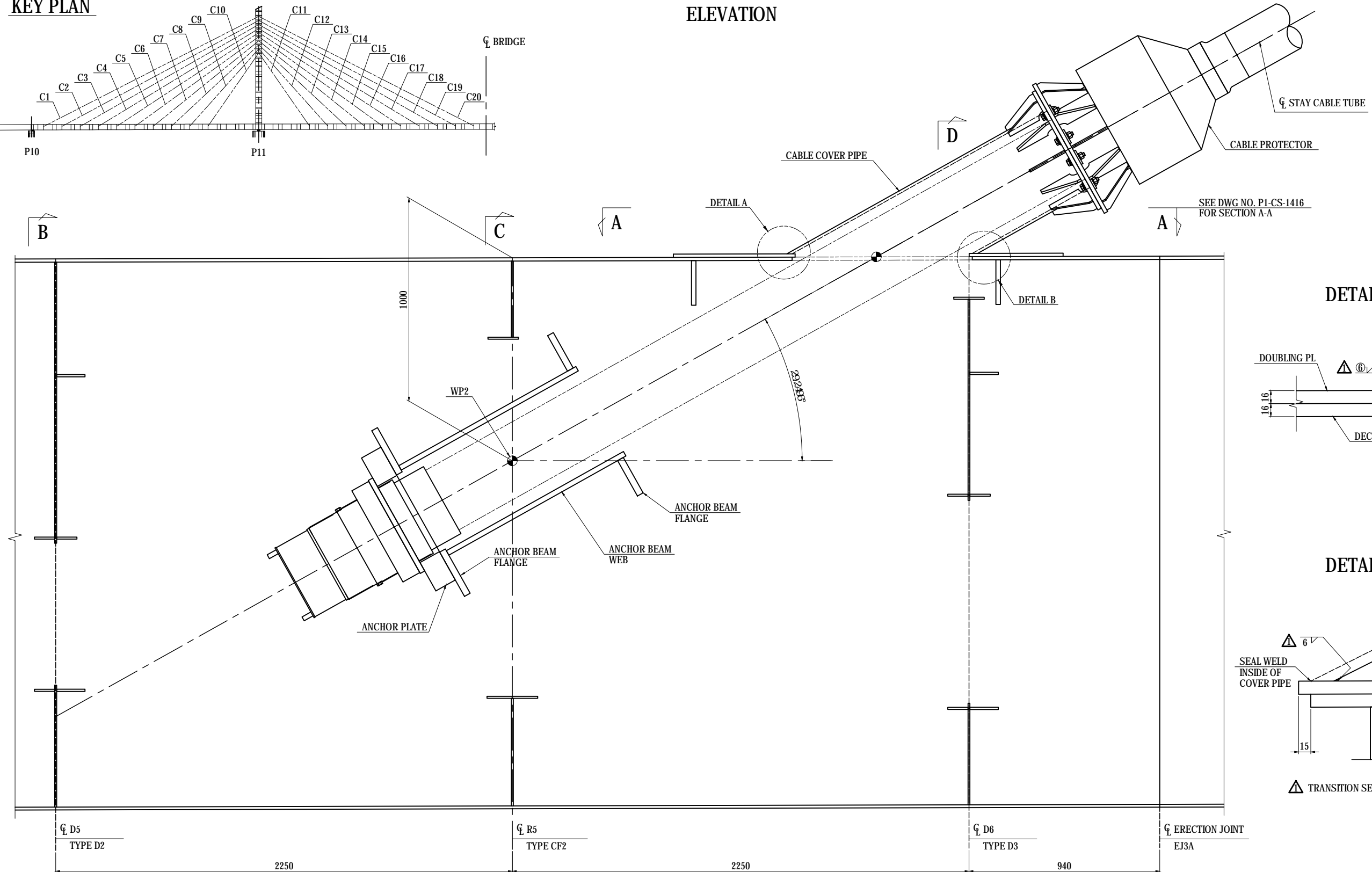
## CABLE NO.C3 (1)

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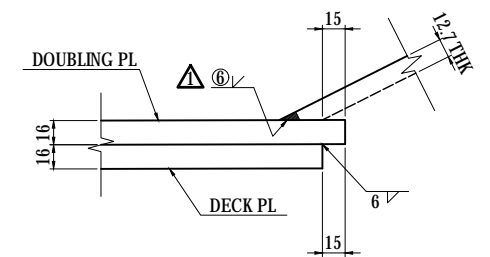
**KEY PLAN**



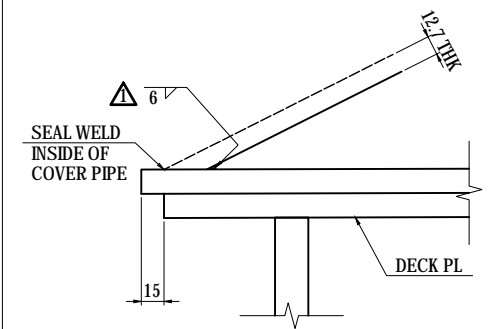
**ELEVATION**



**DETAIL A S=1:5**



**DETAIL B S=1:5**



△ TRANSITION SEE DWG NO. P1-CS-1416.

CL D5 TYPE D2 2250
CL R5 TYPE CF2 2250
CL D6 TYPE D3 940
CL ERECTION JOINT EJ3A

**B**  
SEE DWG NO. P1-CS-1417  
FOR DIAPHRAGM SECTION B-B

**C**  
SEE DWG NO. P1-CS-1418  
FOR CROSSFRAME SECTION C-C

**D**  
SEE DWG NO. P1-CS-1419  
FOR DIAPHRAGM SECTION D-D

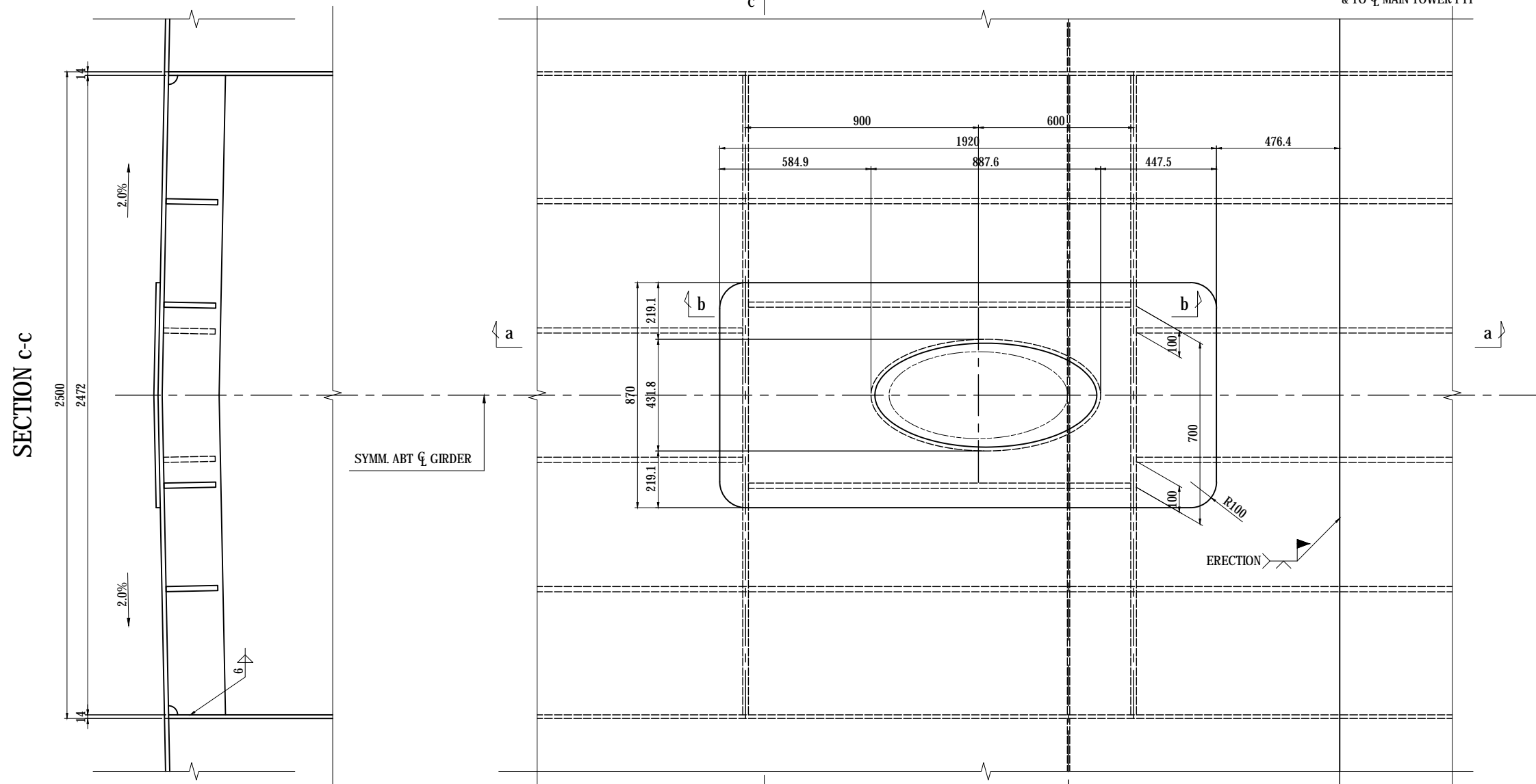
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C3 (1)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1415 |
|---|--|---|--|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|--|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |

# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C3 (2)

S=1:20

## SECTION A-A

TO CL BRIDGE  
& TO CL MAIN TOWER P11



SYMM. ABT CL GIRDER

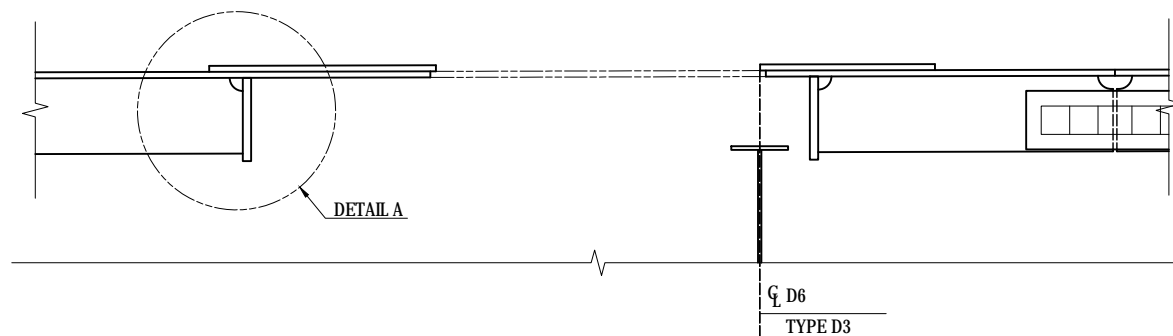
- 1-PL 870 x 16 x 1920
- 2-RIB PL 220 x 22 x 2472
- 1-PIPE 457.2 x 12.7 x 1462 (STK400)
- 12-RIB PL 95 x 12 x 200
- 1-FLG PL 664 x 19 x 664

CL D6  
TYPE D3

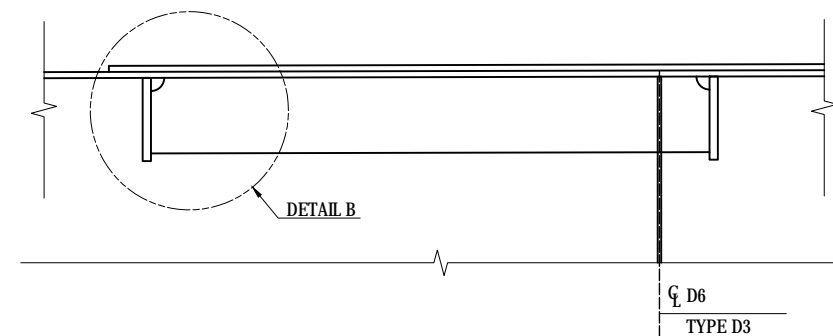
CL ERECTION JOINT  
EJ3A

### SECTION a-a

### SECTION b-b

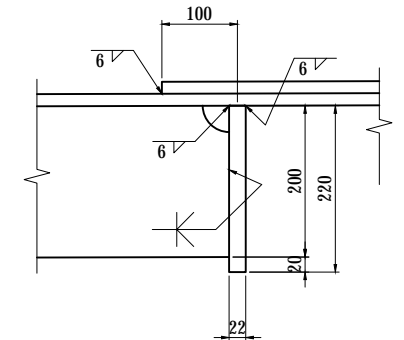


CL D6  
TYPE D3

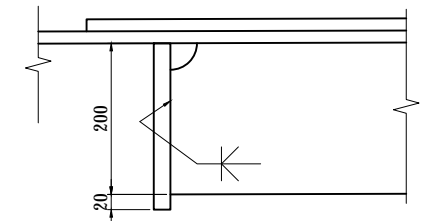


CL D6  
TYPE D3

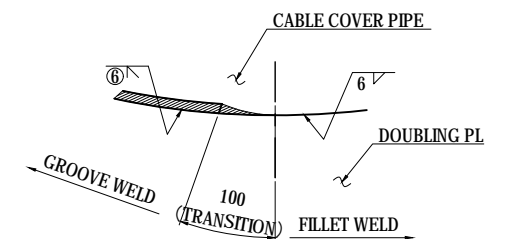
### DETAIL A S=1:10



### DETAIL B S=1:10



### TRANSITION DETAIL ① S=1:10



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1415.
- 2 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

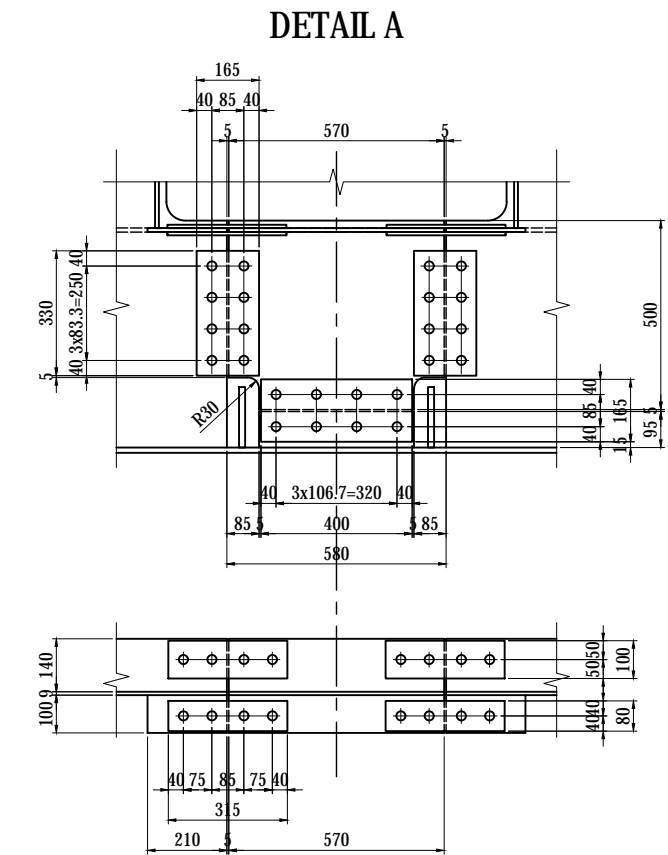
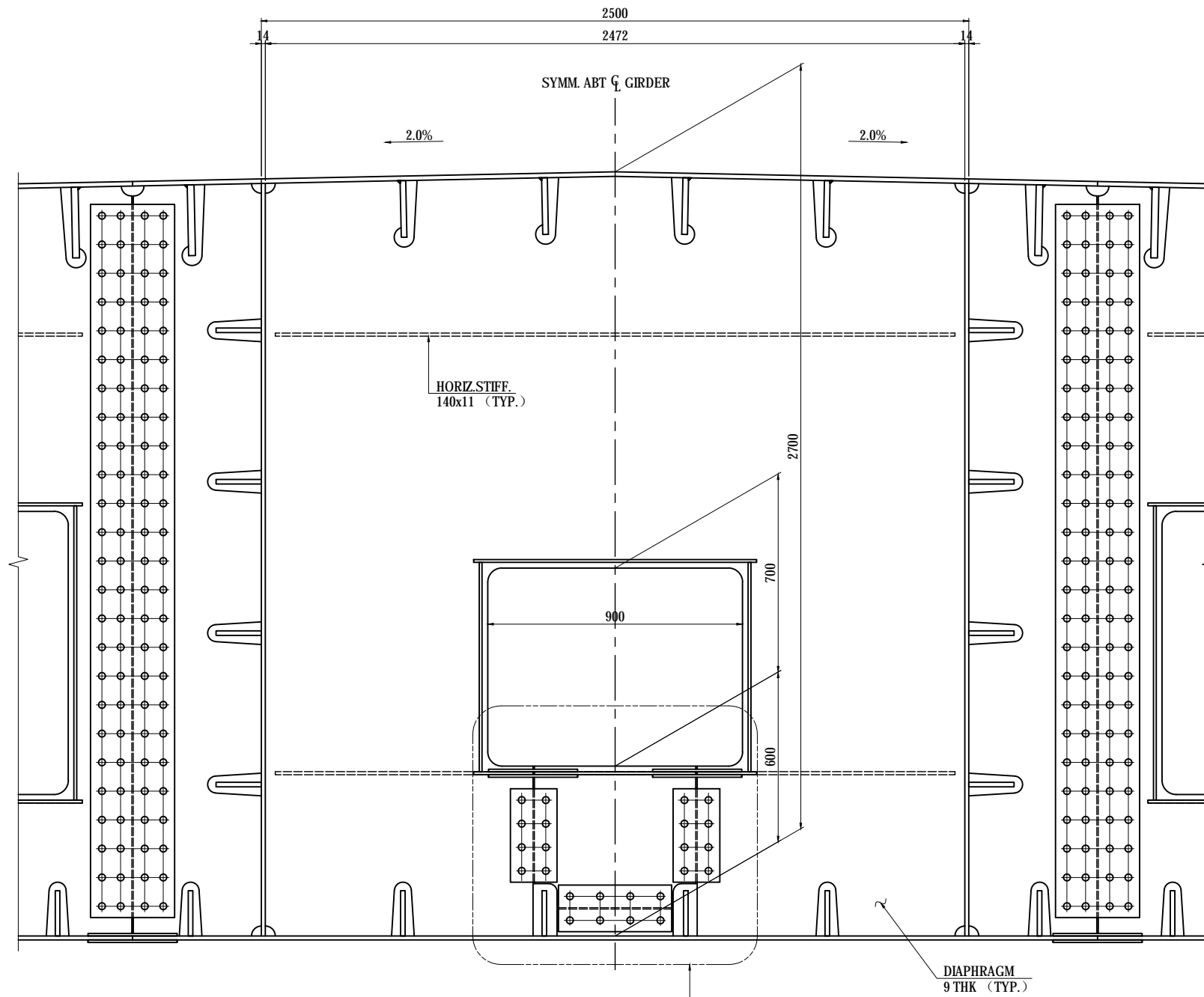
|   |  |   |  |  |               |  |  |                                       |
|---|--|---|--|--|---------------|--|--|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>T.TOMODA<br>T. HAYAKAWA<br>Y. SANO | SIGNATURE<br> | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C3 (2)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1416 |
|---|--|---|--|--|---------------|--|--|---------------------------------------|

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C3 (3)

S=1:20

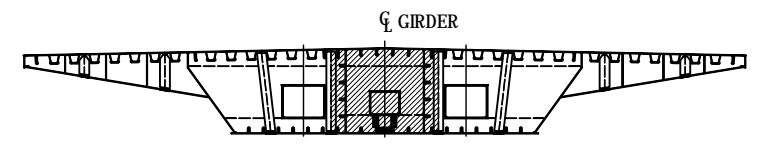
### DIAPHRAGM D5 SECTION B-B



- 1-PL 95 x 9 x 410
- 1-PL 500 x 9 x 570
- 2-SPL PL 165 x 9 x 400 (SS400)
- 8-TCB M22 x 65 (S10T)
- 4-SPL PL 165 x 9 x 330 (SS400)
- 16-TCB M22 x 65 (S10T)
- 1-HSTIF PL 140 x 11 x 570
- 4-SPL PL 100 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)
- 1-COLLAR PL 100 x 10 x 570
- 2-COLLAR PL 100 x 10 x 210
- 4-SPL PL 80 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)

- NOTES:**
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1415.
  - 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107 DIAPHRAGM TYPE D1.
  - 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

### KEY DIAGRAM



- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 1-HSTIF PL 140 x 11 x 2402
- 2-HSTIF PL 140 x 11 x 911
- 2-COLLAR PL 100 x 10 x 1000
- 4-COLLAR PL 90 x 10 x 740

INSTALLATION AFTER ANCHOR THE STAY CABLE  
DETAIL A

|   |  |   |  |             |             |      |  |                                       |              |
|---|--|---|--|-------------|-------------|------|--|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C3 (3) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1417 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |  |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |  |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |  |                                       | 29. Nov.2017 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

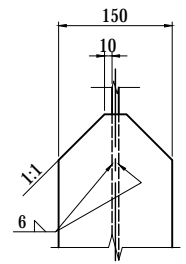
## CABLE NO.C3 (4)

S=1:20

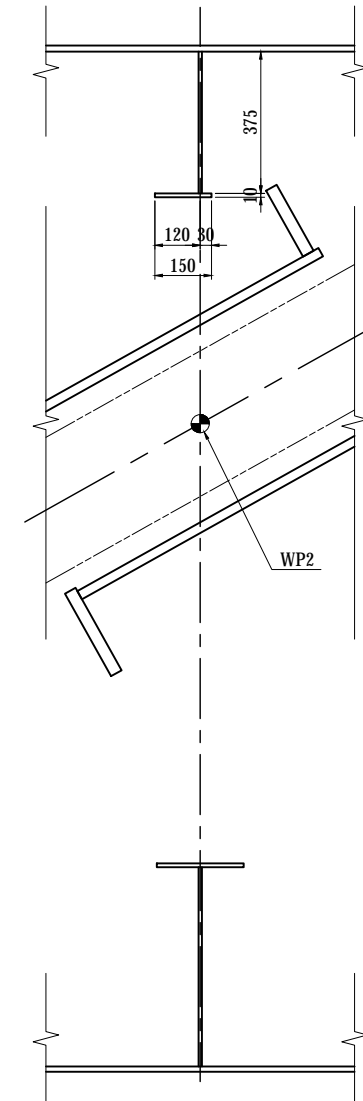
### CROSSFRAME R5 SECTION C-C

- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472

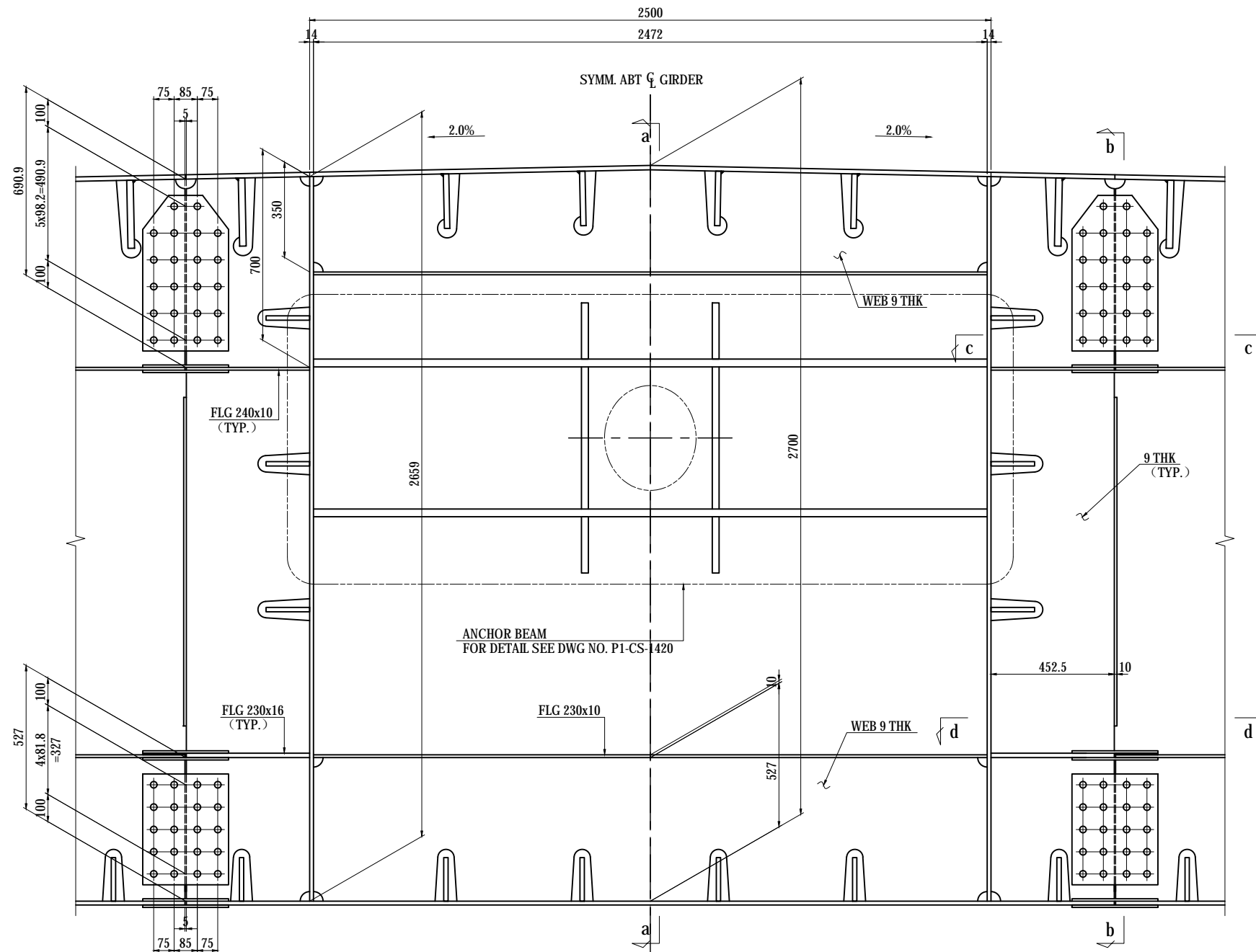
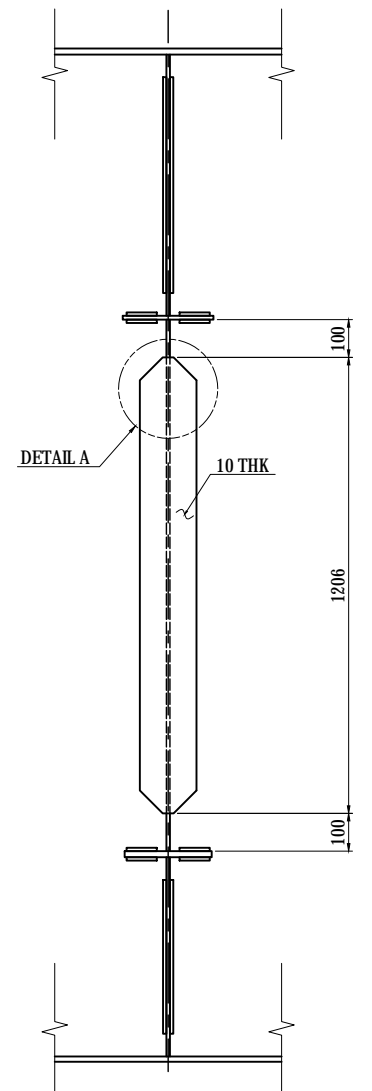
#### DETAIL A S=1:10



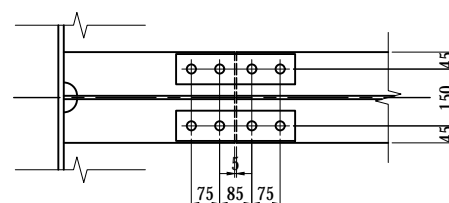
#### SECTION a-a



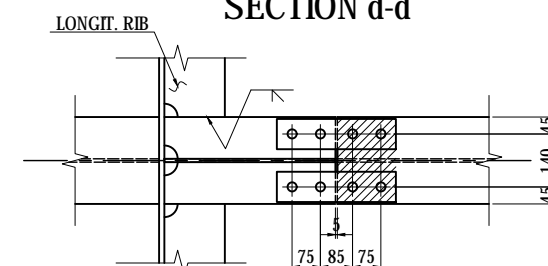
#### SECTION b-b



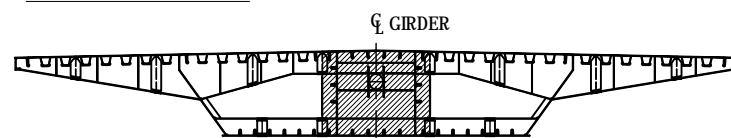
#### SECTION c-c



#### SECTION d-d



#### KEY DIAGRAM



#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1415.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C3 (4)</b> | 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-1418 |

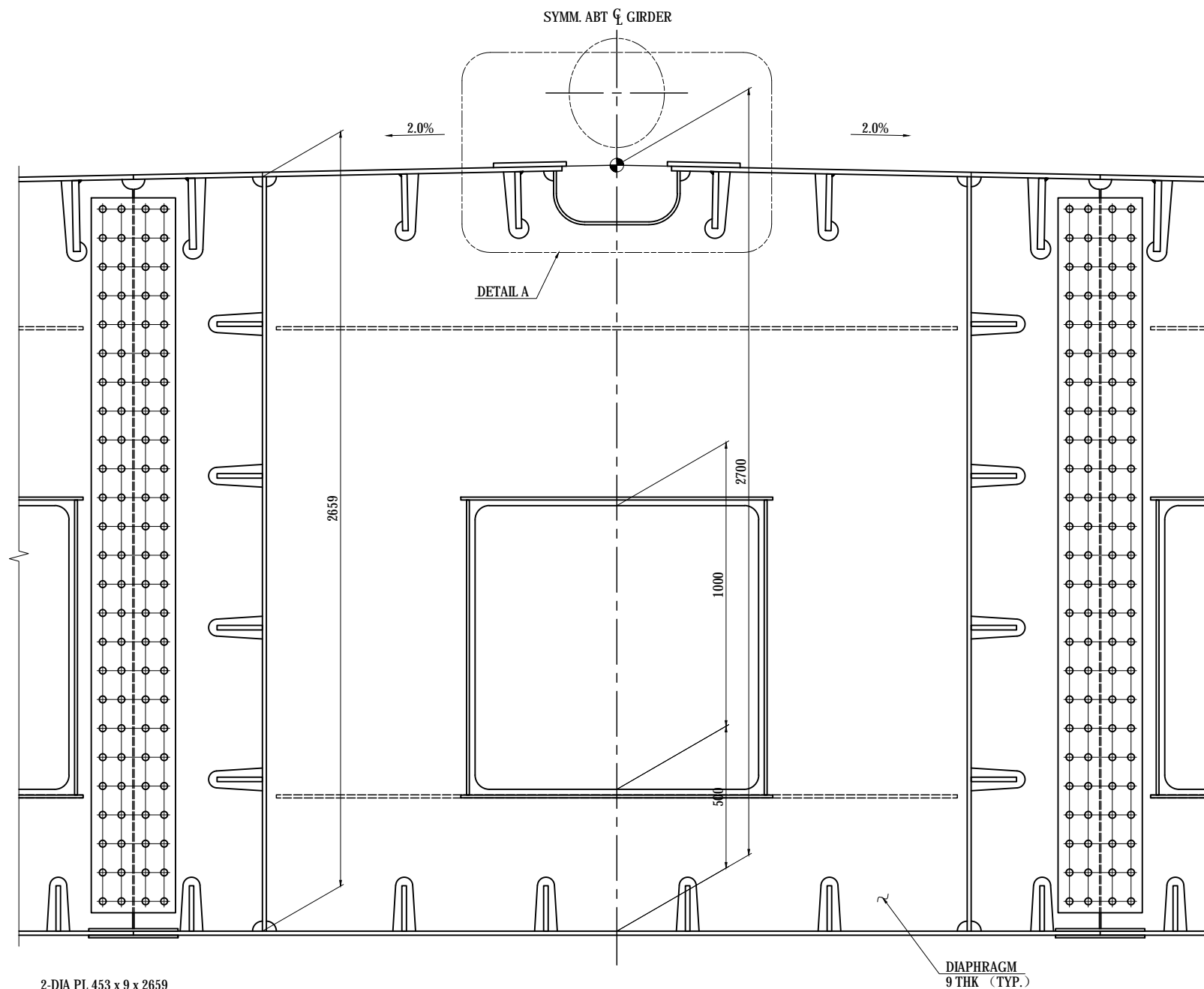
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C3 (5)

S=1:20

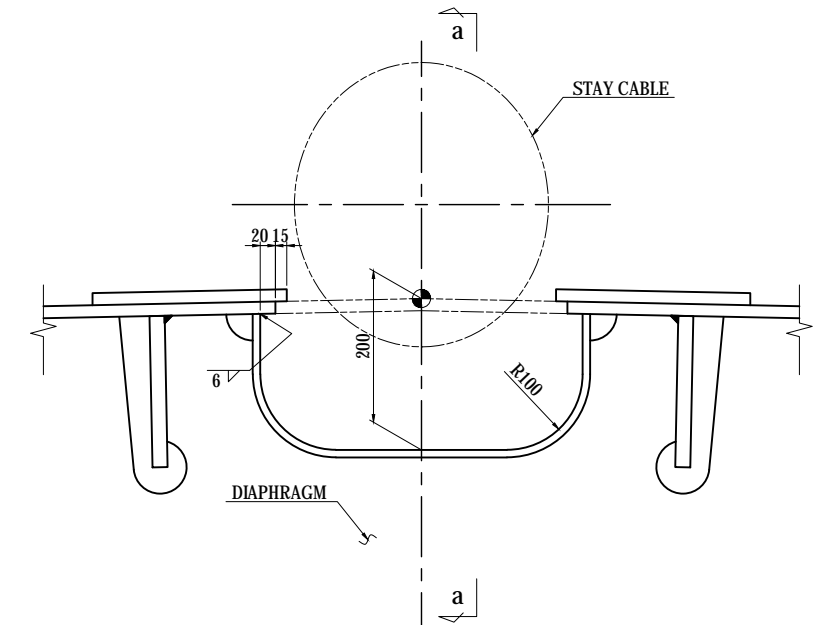
### DIAPHRAGM D6

### SECTION D-D

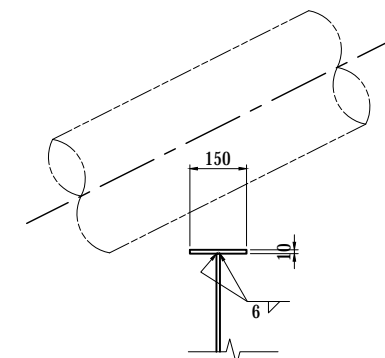


- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 2-HSTIF PL 140 x 11 x 2402
- 3-COLLAR PL 100 x 10 x 1100
- 4-COLLAR PL 90 x 10 x 1040
- 1-FLG PL 150 x 10 x 715

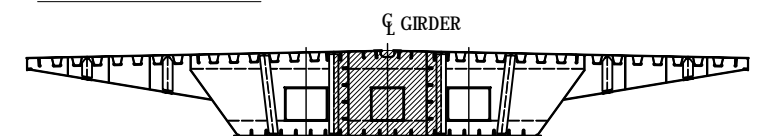
### DETAIL A S=1:10



### SECTION a-a S=1:20



### KEY DIAGRAM



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1415.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107  
DIAPHRAGM TYPE D1.
- 3 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

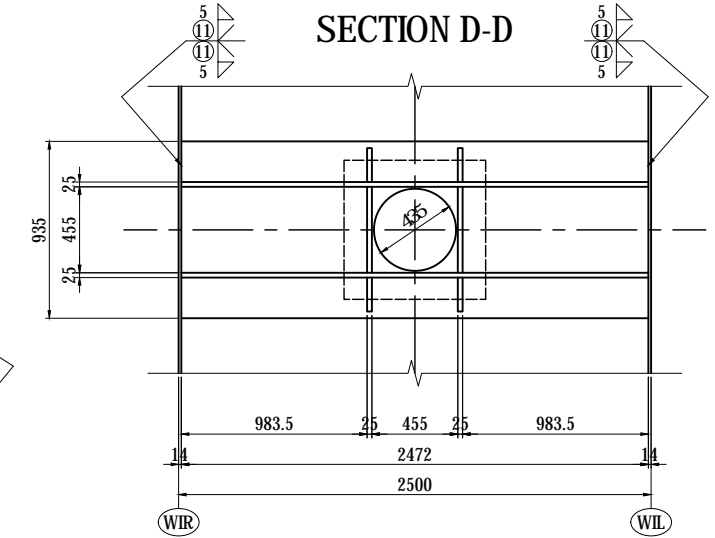
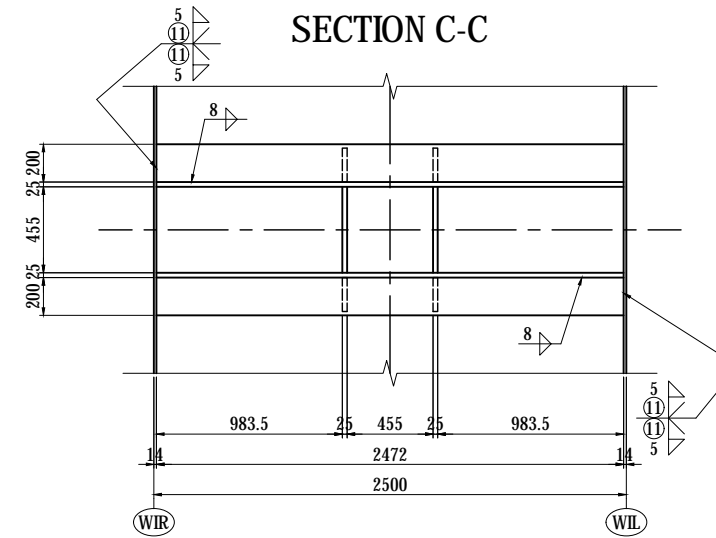
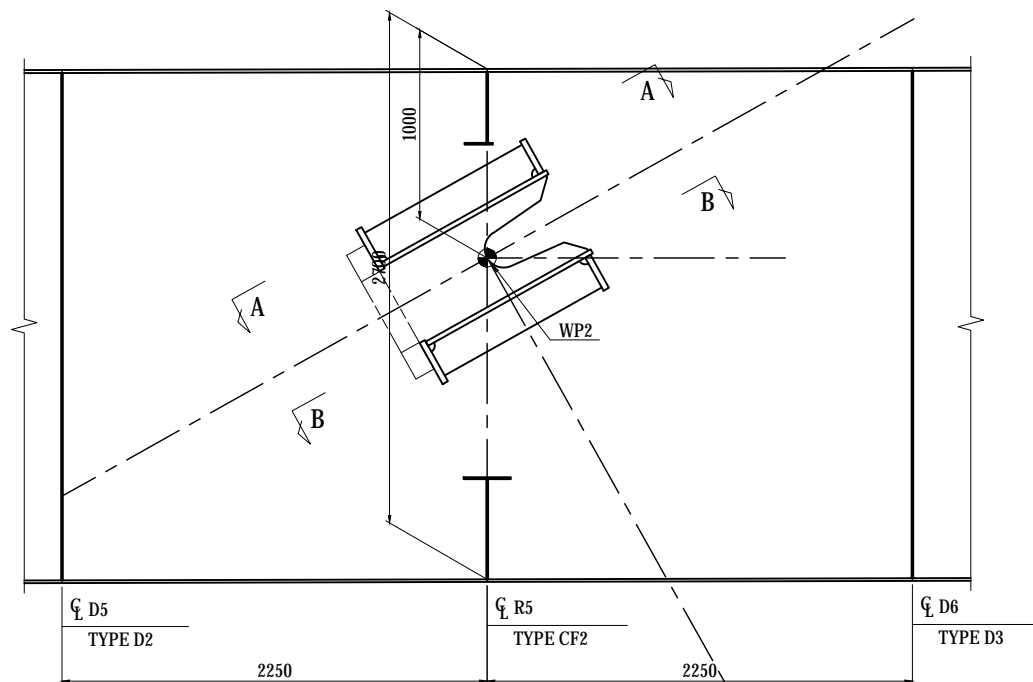
| PROJECT NAME  | FINANCED BY                                       | COUNTERPART  | JICA STUDY TEAM   | NAME                      | SIGNATURE | DATE         | DRAWING TITLE   | PACKAGE    |
|---|---|--|---|---------------------------|-----------|--------------|---|------------|
| DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | PREPARED BY<br>T.TOMODA   | 友田 隆雄     | 27. Nov.2017 | MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C3 (5) | 1          |
|   |   |  |   | CHECKED BY<br>T. HAYAKAWA | 平川 知平     | 28. Nov.2017 |   | DWG No.    |
|   |   |  |   | APPROVED BY<br>Y. SANO    | 佐野 隆一     | 29. Nov.2017 |   | P1-CS-1419 |



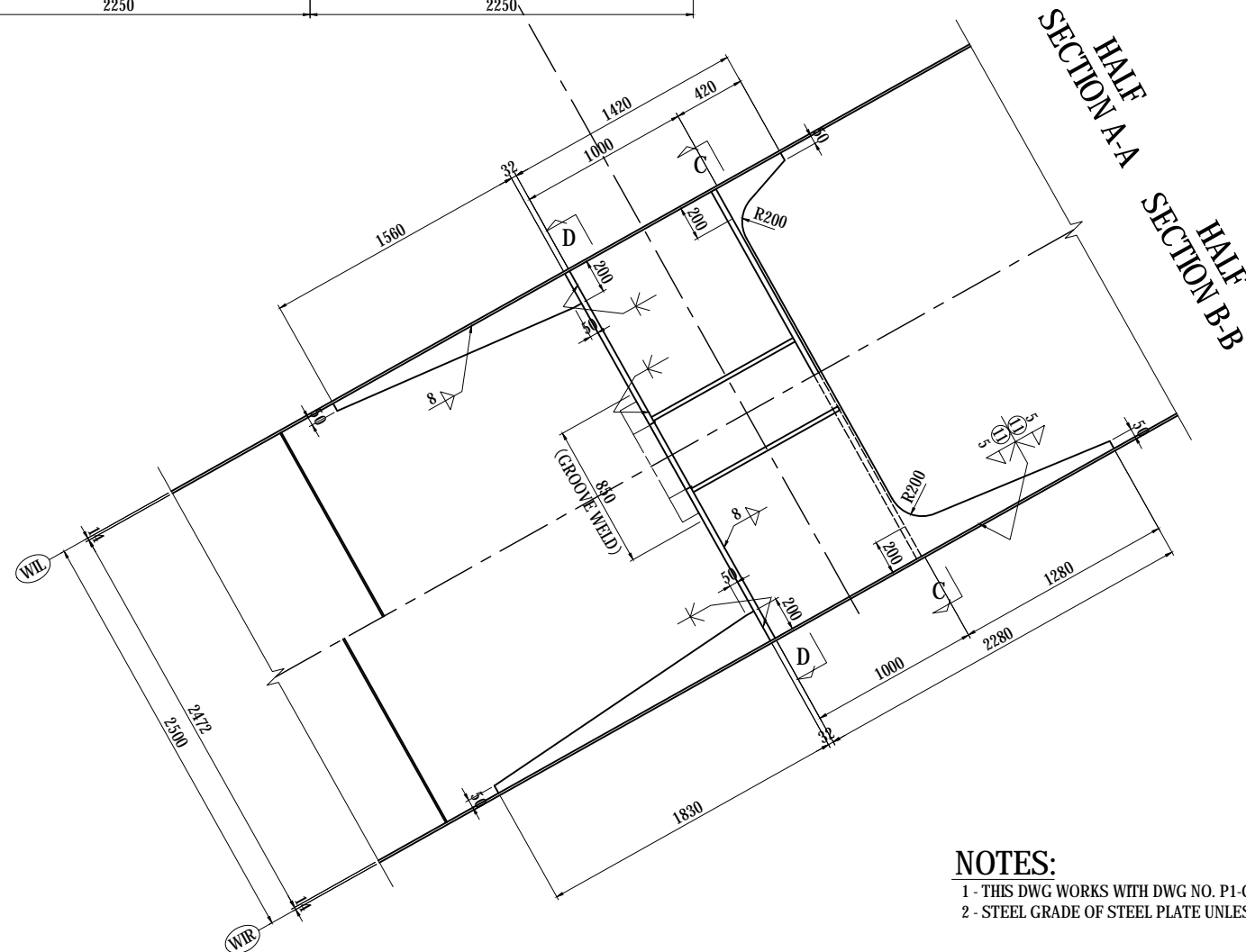
# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C3 (6)

S=1:40

**ANCHOR BEAM C3**

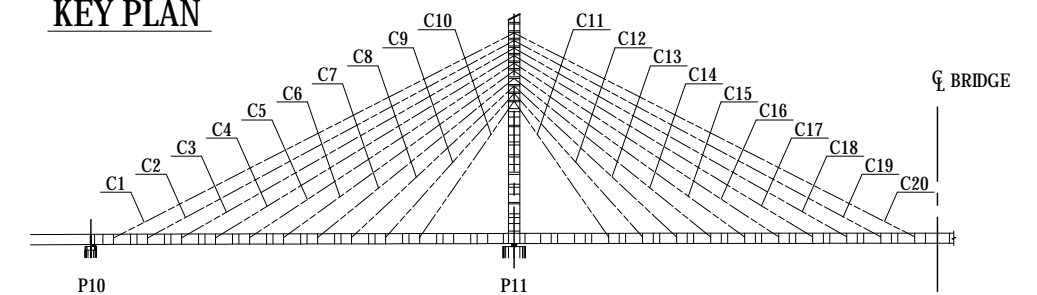


- 1-FLG PL 935 x 32 x 2472(SM490YB)
- 2-FLG PL 200 x 32 x 2472(SM490YB)
- 1-WEB PL 2280 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1830(SM490YB)
- 1-WEB PL 1420 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1560(SM490YB)
- 2-RIB PL 455 x 25 x 985(SM490YB)
- 4-RIB PL 180 x 25 x 953(SM490YB)
- 1- PL 750 x 110 x 750(SM400C-H)



**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1418.  
 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

**KEY PLAN**



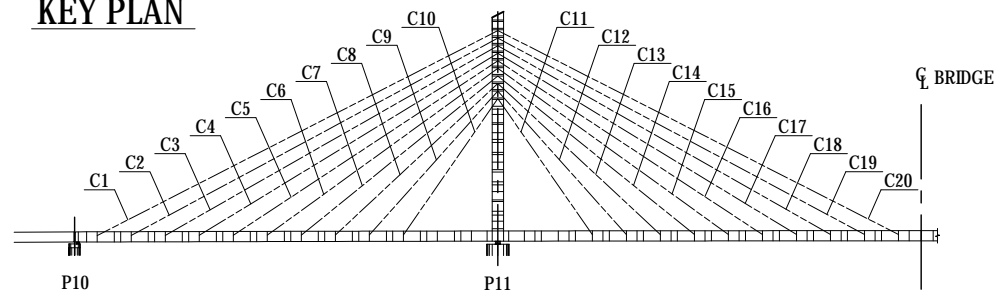
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NAME</th> <th style="width: 10%;">SIGNATURE</th> <th style="width: 10%;">DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY</td> <td>T.TOMODA</td> <td>友田 隆雄</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>平川 知平</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>佐野 祐一</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY | T.TOMODA | 友田 隆雄 | CHECKED BY | T. HAYAKAWA | 平川 知平 | APPROVED BY | Y. SANO | 佐野 祐一 | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C3 (6) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1420 |
|---|--|---|--|---|------|-----------|------|-------------|----------|-------|------------|-------------|-------|-------------|---------|-------|--|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |             |          |       |            |             |       |             |         |       |  |                                       |
| PREPARED BY   | T.TOMODA   | 友田 隆雄   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |  |                                       |
| CHECKED BY  | T. HAYAKAWA  | 平川 知平   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |  |                                       |
| APPROVED BY   | Y. SANO  | 佐野 祐一   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |  |                                       |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

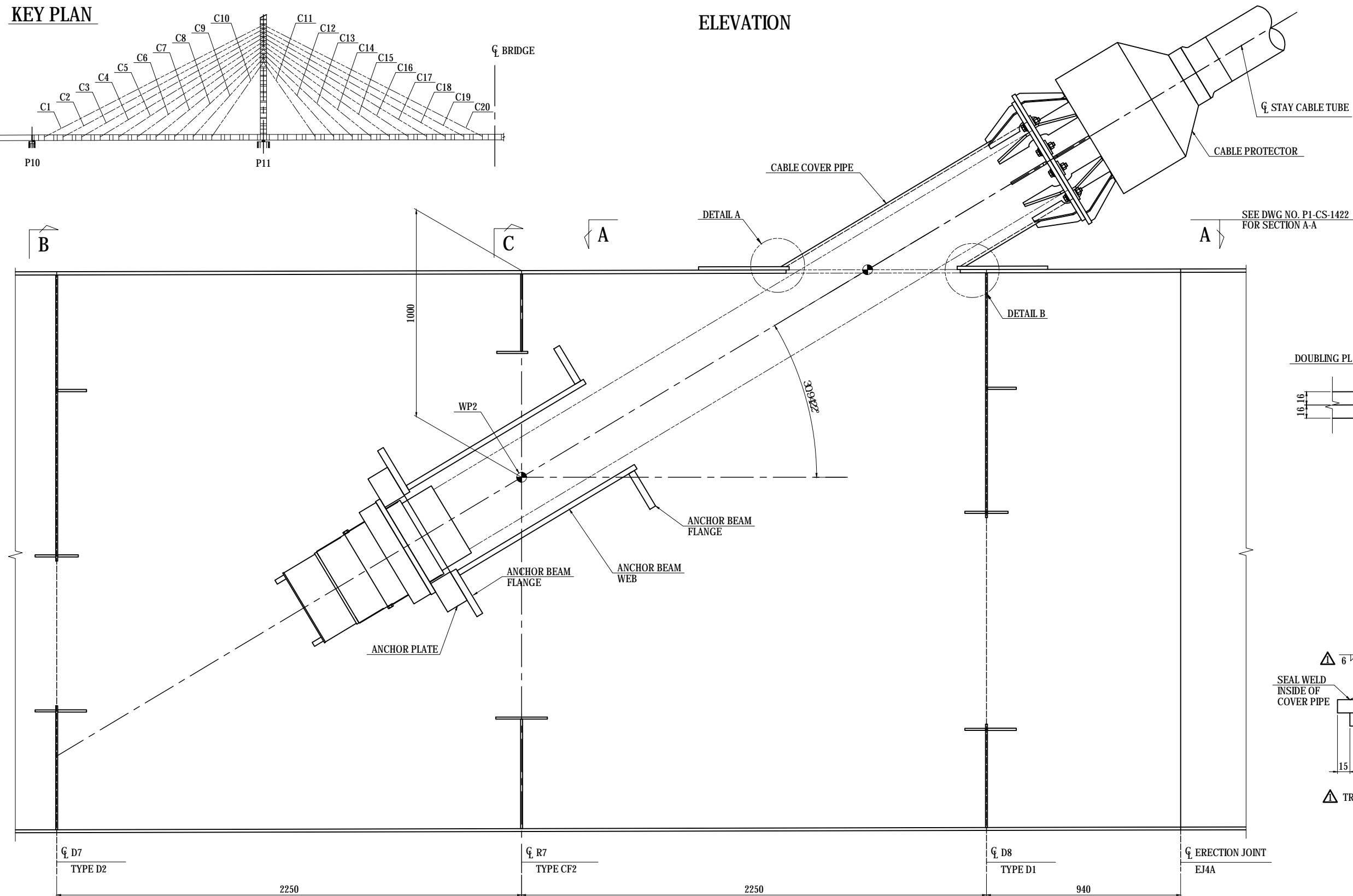
## CABLE NO.C4 (1)

S=1:20

**KEY PLAN**

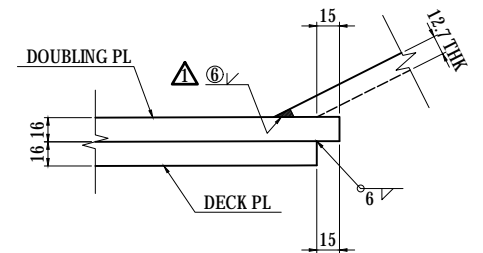


**ELEVATION**

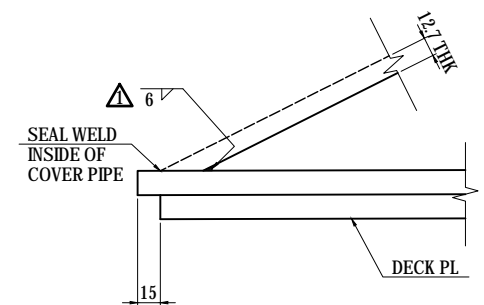


SEE DWG NO. P1-CS-1422 FOR SECTION A-A

**DETAIL A S=1:5**



**DETAIL B S=1:5**



△ TRANSITION SEE DWG NO. P1-CS-1422.

CL D7 TYPE D2 2250
CL R7 TYPE CF2 2250
CL D8 TYPE D1 940
CL ERECTION JOINT EJ4A

**B**  
SEE DWG NO. P1-CS-1423 FOR DIAPHRAGM SECTION B-B

**C**  
SEE DWG NO. P1-CS-1424 FOR CROSSFRAME SECTION C-C

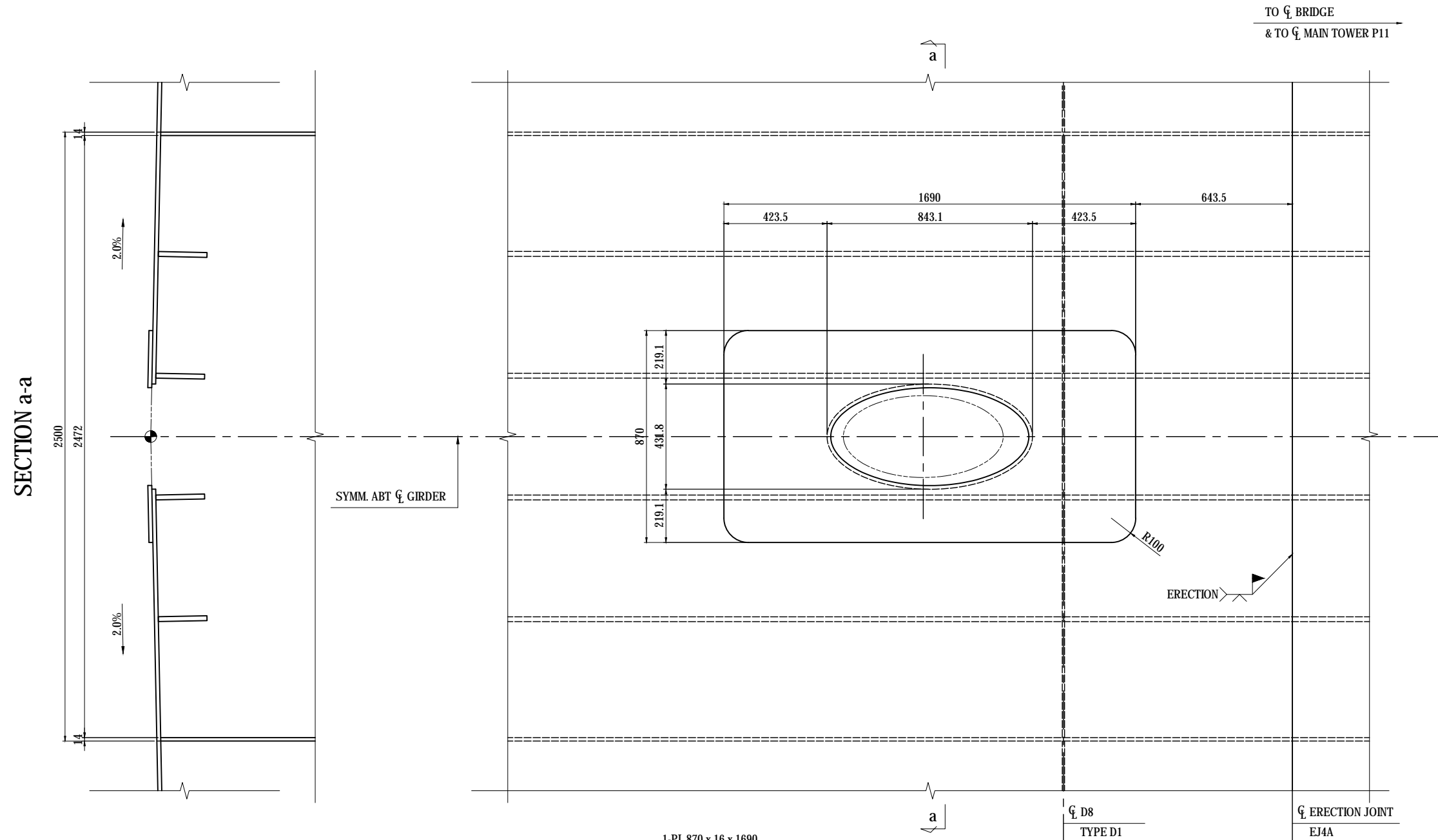
|   |  |   |  |   |                       |  |   |                                       |
|---|--|---|--|---|-----------------------|--|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>PREPARED BY T.TOMODA<br>CHECKED BY T. HAYAKAWA<br>APPROVED BY Y. SANO | SIGNATURE<br><br><br> | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>         CABLE NO.C4 (1)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1421 |
|---|--|---|--|---|-----------------------|--|---|---------------------------------------|

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C4 (2)

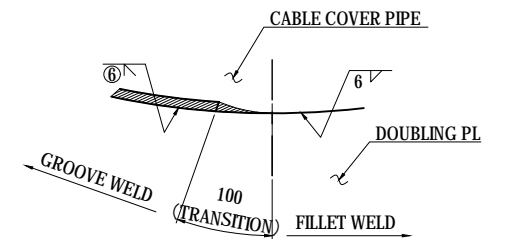
S=1:20

### SECTION A-A



- 1-PL 870 x 16 x 1690
- 1-PIPE 457.2 x 12.7 x 1383 (STK400)
- 12-RIB PL 95 x 12 x 200
- 1-FLG PL 664 x 19 x 664

### TRANSITION DETAIL 1 S=1:10



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1421.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY</td> <td>T.TOMODA</td> <td>友田 智雄</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>平川 知平</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>佐野 祐一</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY | T.TOMODA | 友田 智雄 | CHECKED BY | T. HAYAKAWA | 平川 知平 | APPROVED BY | Y. SANO | 佐野 祐一 | DRAWING TITLE<br><h2 style="text-align: center;">MAIN GIRDER ANCHORAGE OF STAY CABLES</h2> <h3 style="text-align: center;">CABLE NO.C4 (2)</h3> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1422 |
|---|--|---|--|---|------|-----------|------|-------------|----------|-------|------------|-------------|-------|-------------|---------|-------|---|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| PREPARED BY   | T.TOMODA   | 友田 智雄   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| CHECKED BY  | T. HAYAKAWA  | 平川 知平   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| APPROVED BY   | Y. SANO  | 佐野 祐一   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |

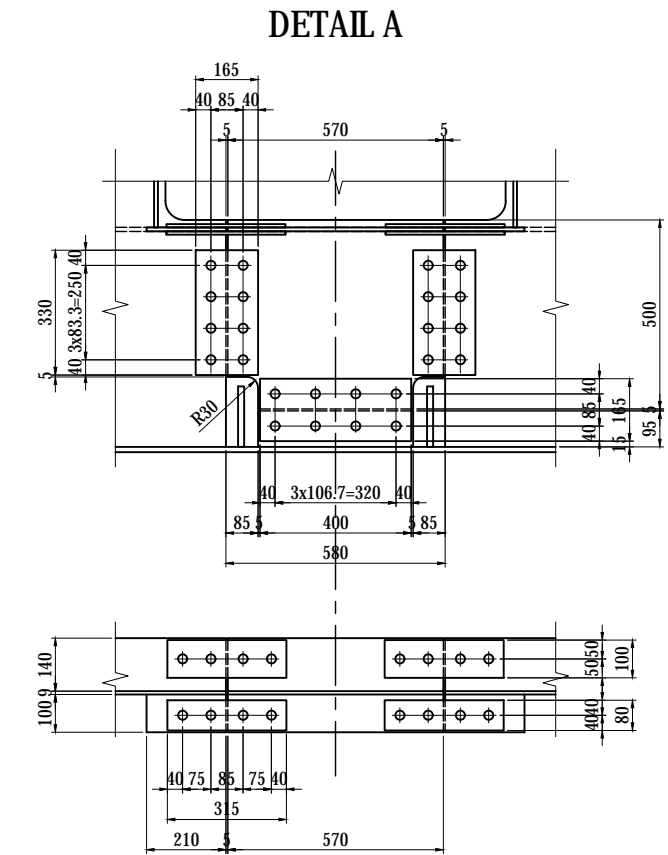
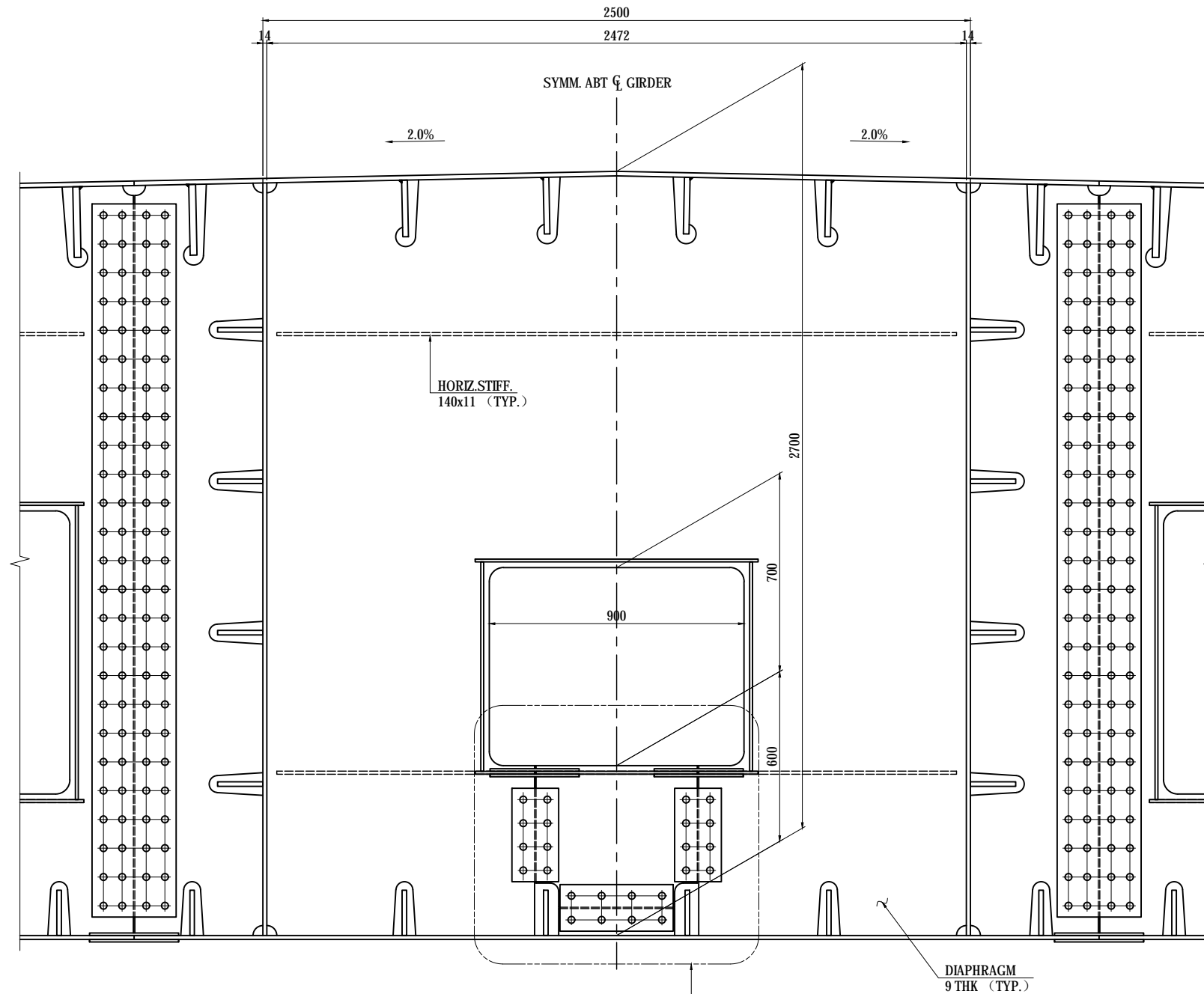
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C4 (3)

S=1:20

### DIAPHRAGM D7

### SECTION B-B

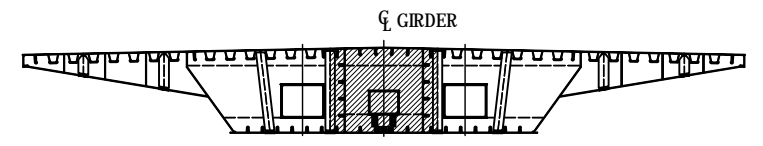


- 1-PL 95 x 9 x 410
- 1-PL 500 x 9 x 570
- 2-SPL PL 165 x 9 x 400 (SS400)
- 8-TCB M22 x 65 (S10T)
- 4-SPL PL 165 x 9 x 330 (SS400)
- 16-TCB M22 x 65 (S10T)
- 1-HSTF PL 140 x 11 x 570
- 4-SPL PL 100 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)
- 1-COLLAR PL 100 x 10 x 570
- 2-COLLAR PL 100 x 10 x 210
- 4-SPL PL 80 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)

- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 1-HSTIF PL 140 x 11 x 2402
- 2-HSTIF PL 140 x 11 x 911
- 2-COLLAR PL 100 x 10 x 1000
- 4-COLLAR PL 90 x 10 x 740

INSTALLATION AFTER ANCHOR THE STAY CABLE  
DETAIL A

### KEY DIAGRAM



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1421.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107  
DIAPHRAGM TYPE D1.
- 3 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |                                       |              |
|---|--|---|--|-------------|-------------|------|--|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C4 (3) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1423 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |  |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |  |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |  |                                       | 29. Nov.2017 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

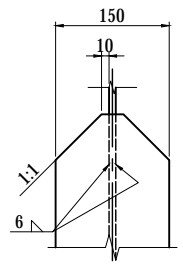
## CABLE NO.C4 (4)

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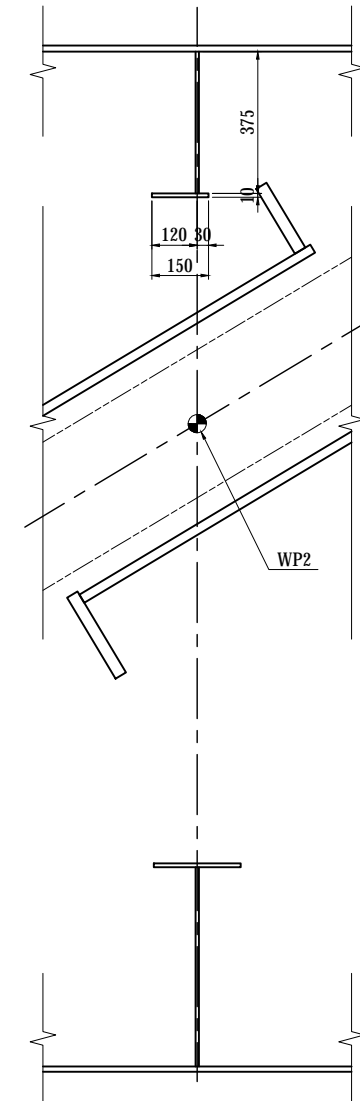
### CROSSFRAME R7 SECTION C-C

- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472

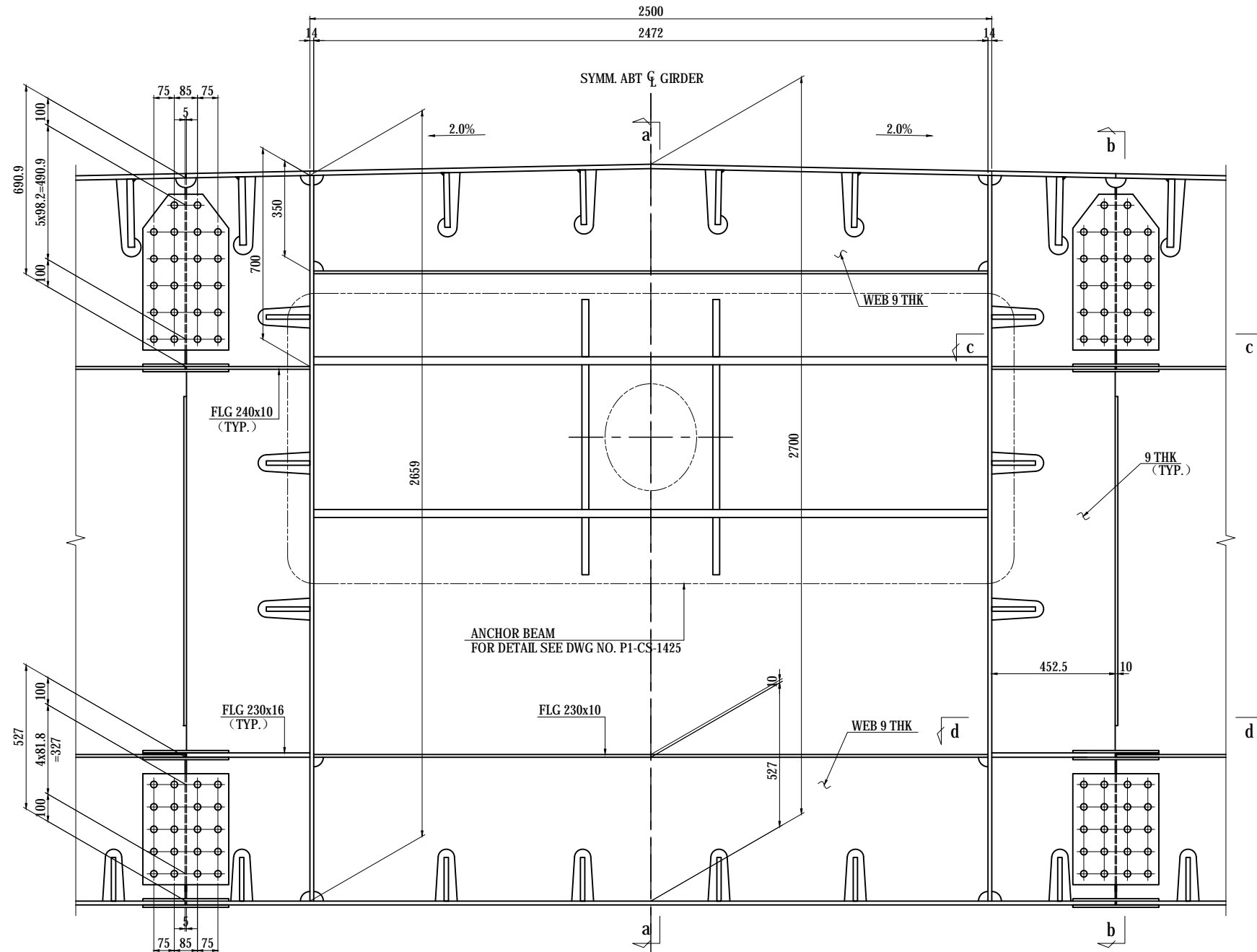
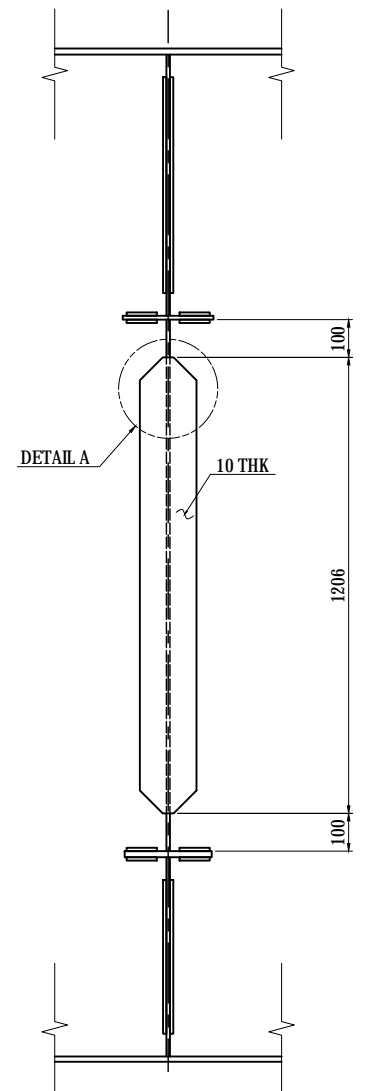
#### DETAIL A S=1:10



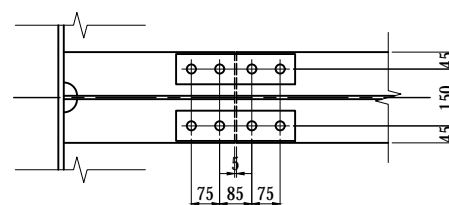
#### SECTION a-a



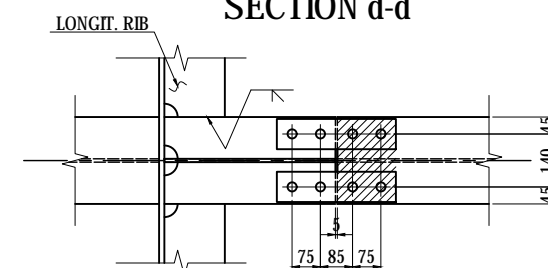
#### SECTION b-b



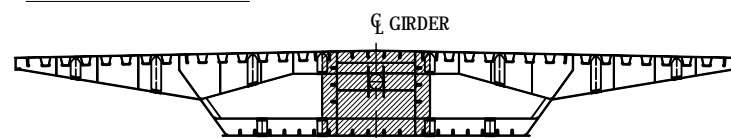
#### SECTION c-c



#### SECTION d-d



#### KEY DIAGRAM



#### NOTES:

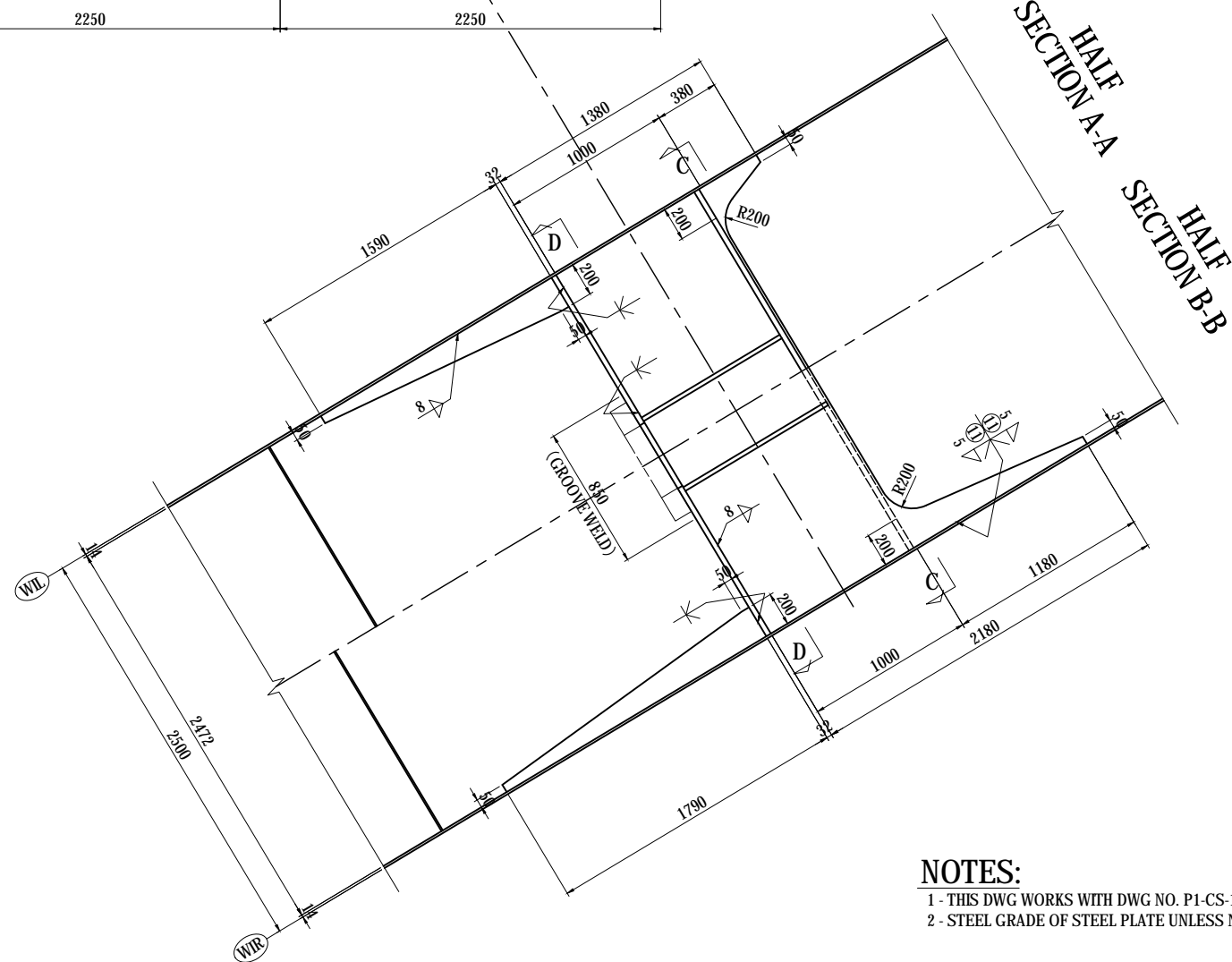
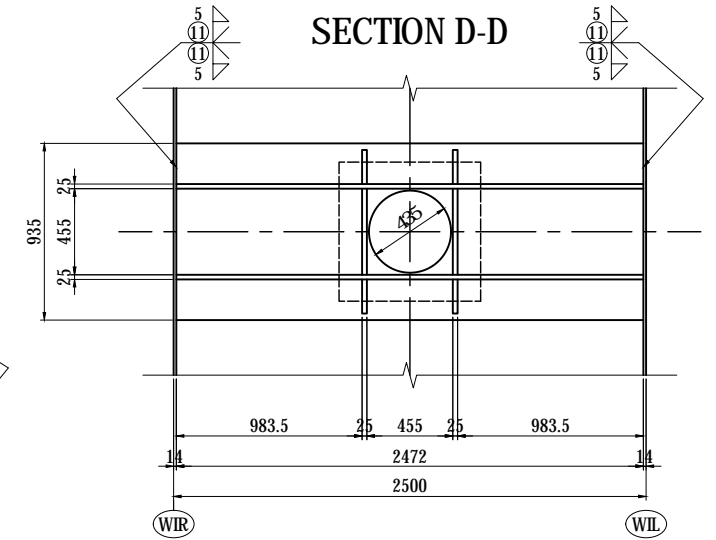
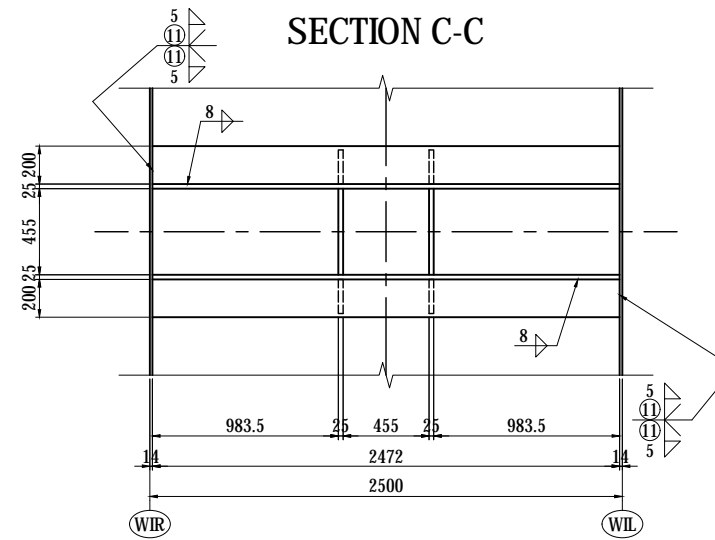
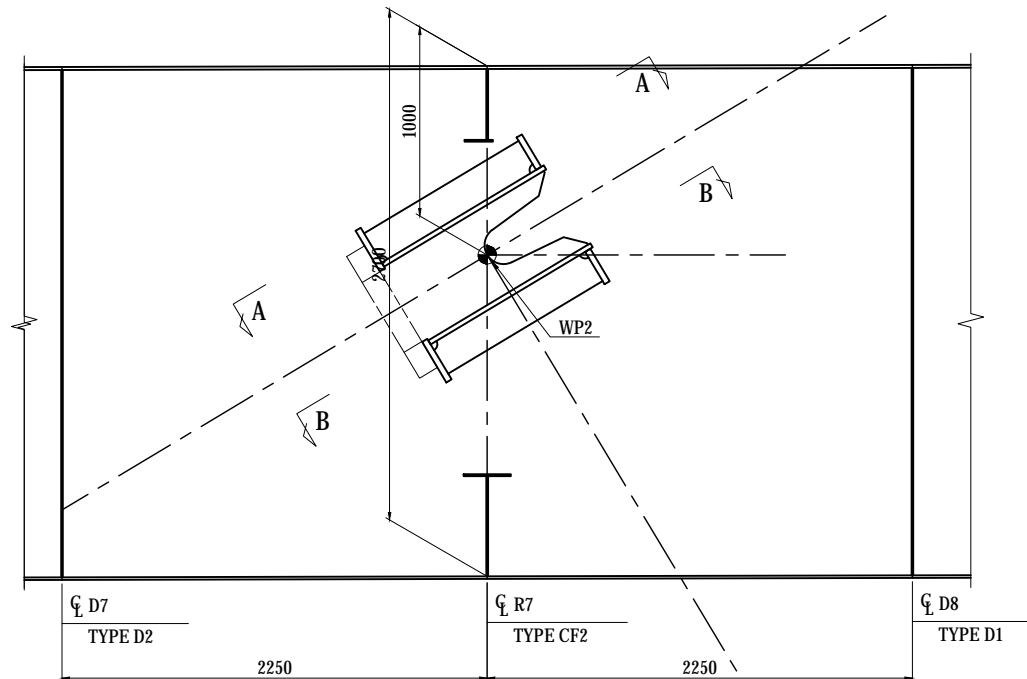
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1421.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |                                       |              |
|---|--|---|--|-------------|-------------|------|--|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C4 (4) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1424 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |  |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |  |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |  |                                       | 29. Nov.2017 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C4 (5)

S=1:40

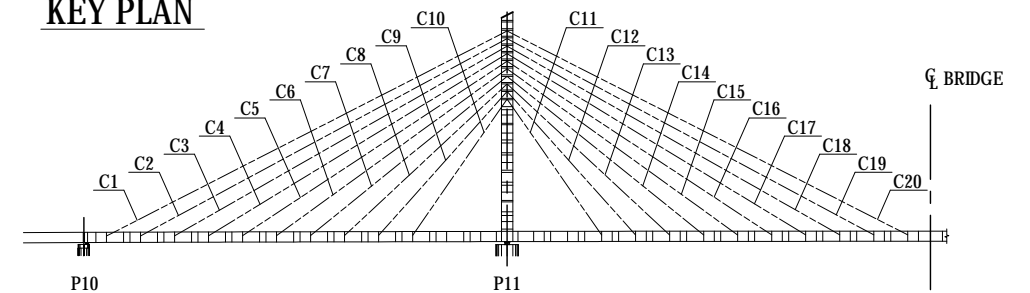
**ANCHOR BEAM C4**



- 1-FLG PL 935 x 32 x 2472(SM490YB)
- 2-FLG PL 200 x 32 x 2472(SM490YB)
- 1-WEB PL 2180 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1880(SM490YB)
- 1-WEB PL 1380 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1590(SM490YB)
- 2-RIB PL 455 x 25 x 985(SM490YB)
- 4-RIB PL 180 x 25 x 953(SM490YB)
- 1- PL 750 x 110 x 750(SM400C-H)

**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1424.  
 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

**KEY PLAN**



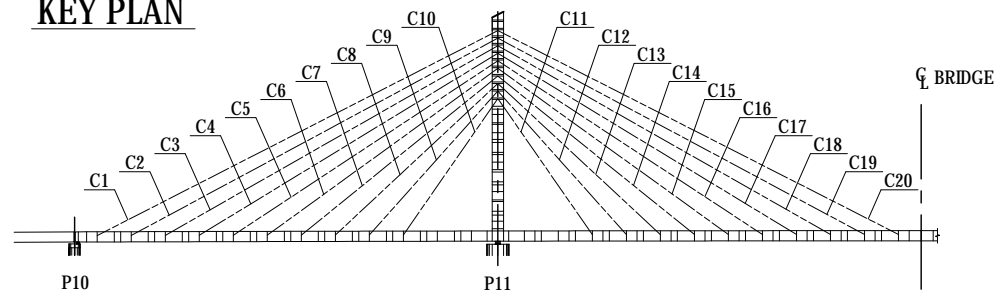
| <p>PROJECT NAME<br/>DETAILED DESIGN ON<br/>BAGO RIVER BRIDGE<br/>CONSTRUCTION PROJECT</p> | <p>FINANCED BY<br/> JAPAN INTERNATIONAL<br/>COOPERATION AGENCY</p> | <p>COUNTERPART<br/> REPUBLIC OF THE UNION OF MYANMAR<br/>MINISTRY OF CONSTRUCTION<br/>DEPARTMENT OF BRIDGE</p> | <p>JICA STUDY TEAM<br/> NIPPON KOEI CO., LTD.<br/>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br/>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br/>CHODAI CO., LTD.<br/>NIPPON ENGINEERING CONSULTANTS CO., LTD.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | <p>DRAWING TITLE<br/><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C4 (5)</b></p> | <p>PACKAGE<br/>1<br/>DWG No.<br/>P1-CS-1425</p> |
|---|--|--|---|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|--|---|
| NAME  | SIGNATURE  | DATE   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

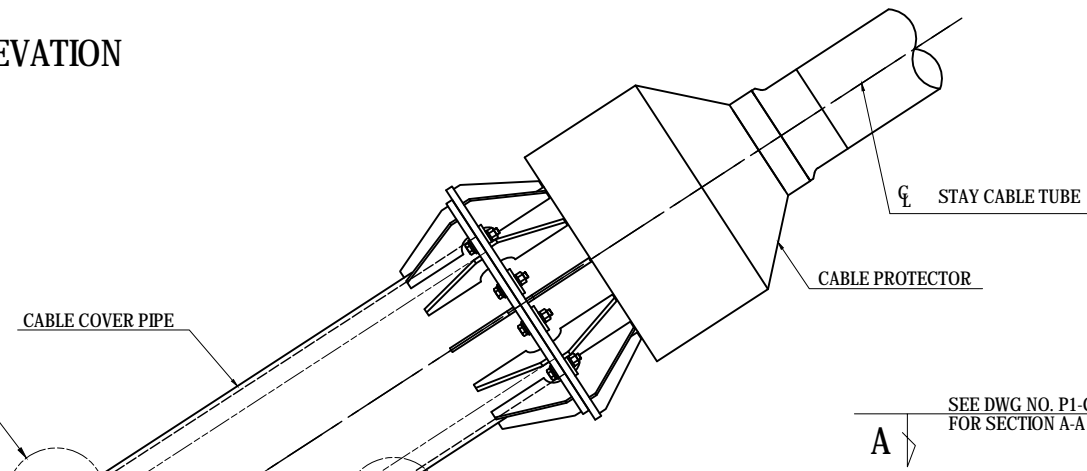
## CABLE NO.C5 (1)

S=1:20

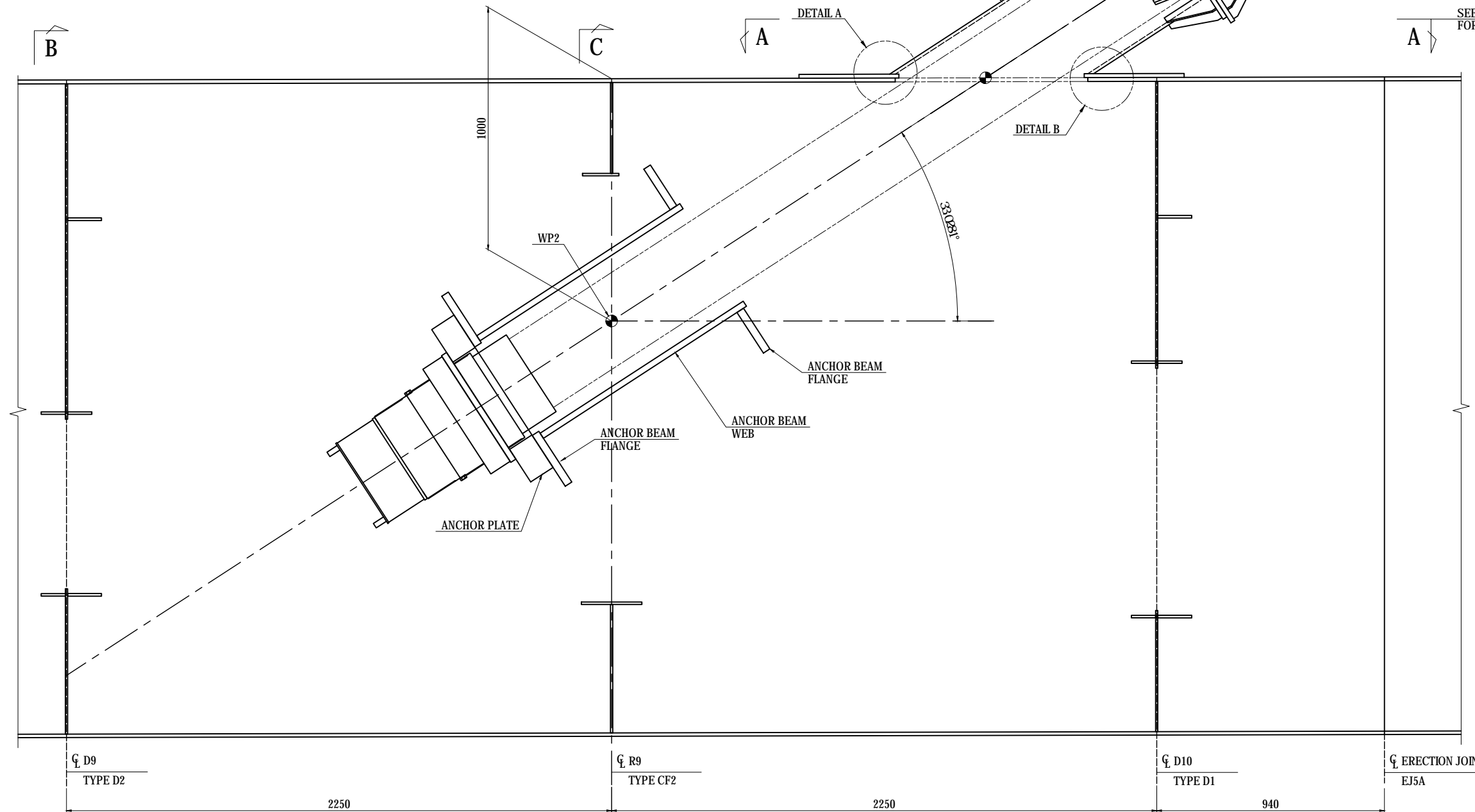
**KEY PLAN**



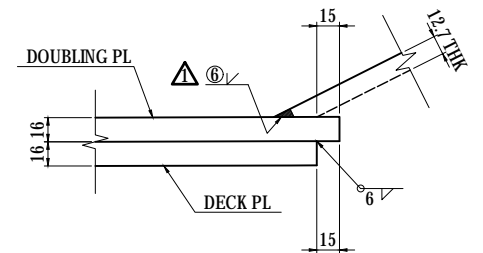
**ELEVATION**



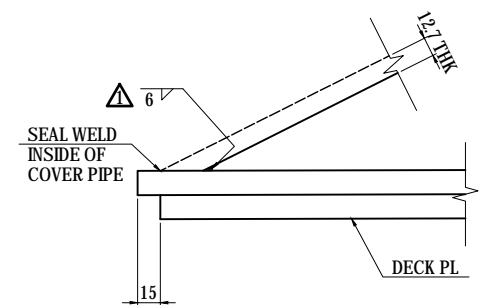
SEE DWG NO. P1-CS-1427  
FOR SECTION A-A



**DETAIL A S=1:5**



**DETAIL B S=1:5**



△ TRANSITION SEE DWG NO. P1-CS-1427.

**B**  
SEE DWG NO. P1-CS-1428  
FOR DIAPHRAGM SECTION B-B

**C**  
SEE DWG NO. P1-CS-1429  
FOR CROSSFRAME SECTION C-C

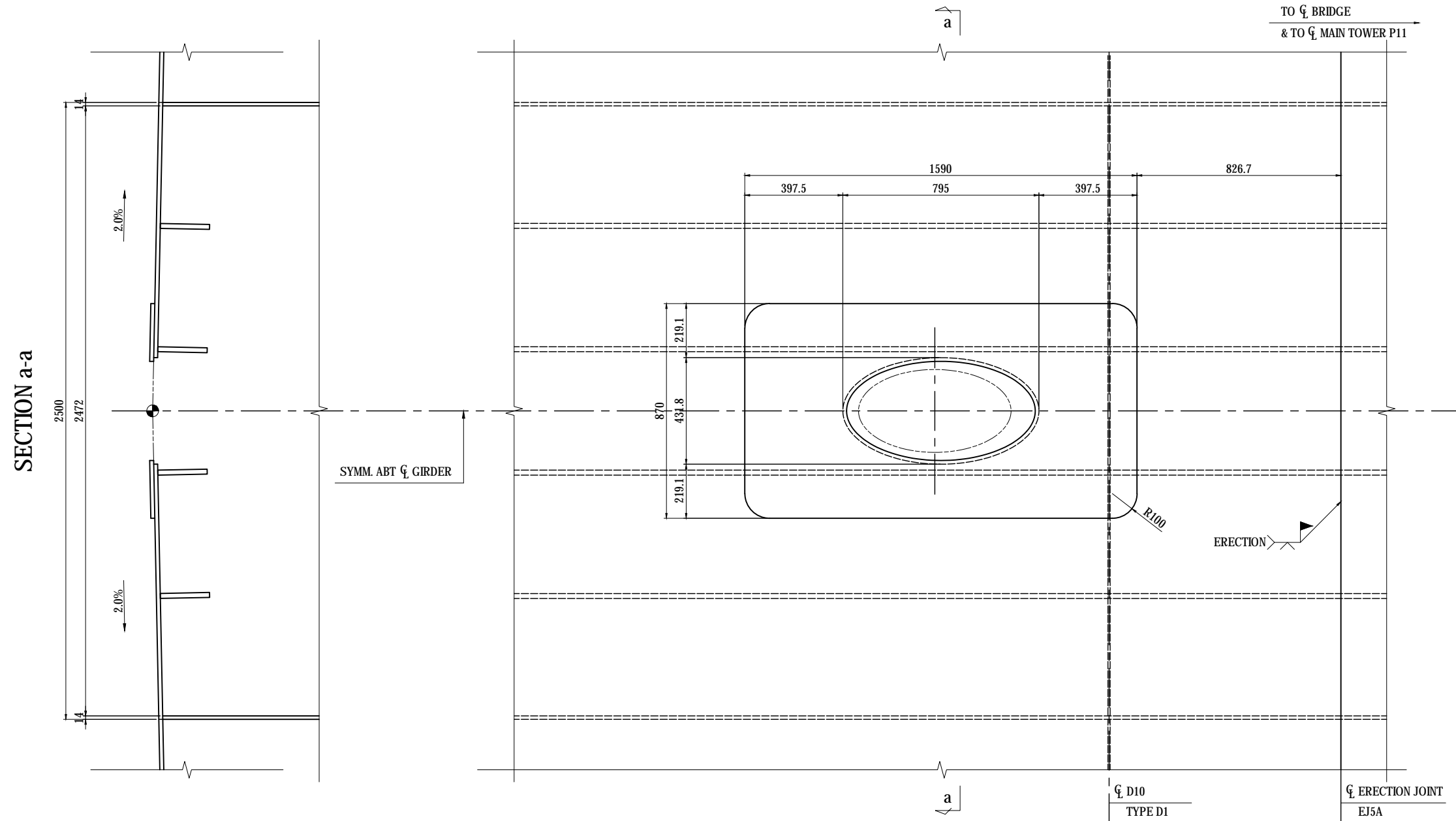
| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C5 (1)</b> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1426 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C5 (2)

S=1:20

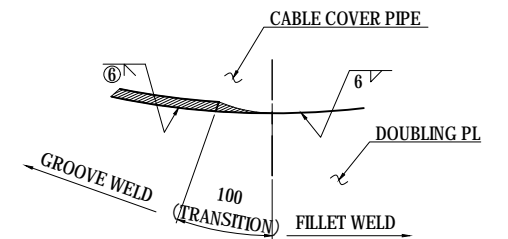
### SECTION A-A



SYMM. ABT CL GIRDER

ERECTION

### TRANSITION DETAIL ① S=1:10



- 1-PL 870 x 16 x 1590
- 1-PIPE 457.2 x 12.7 x 1296 (STK400)
- 12-RIB PL 95 x 12 x 200
- 1-FLG PL 664 x 19 x 664

### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1426.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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<br><h2 style="text-align: center;">MAIN GIRDER ANCHORAGE OF STAY CABLES</h2> <h3 style="text-align: center;">CABLE NO.C5 (2)</h3> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1427 |
|---|--|---|--|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|---|---------------------------------------|
|   | NAME   | SIGNATURE   | DATE   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |                                       |
| PREPARED BY   | T.TOMODA   |   | 27. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |                                       |
| CHECKED BY  | T. HAYAKAWA  |   | 28. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |                                       |
| APPROVED BY   | Y. SANO  |   | 29. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |                                       |



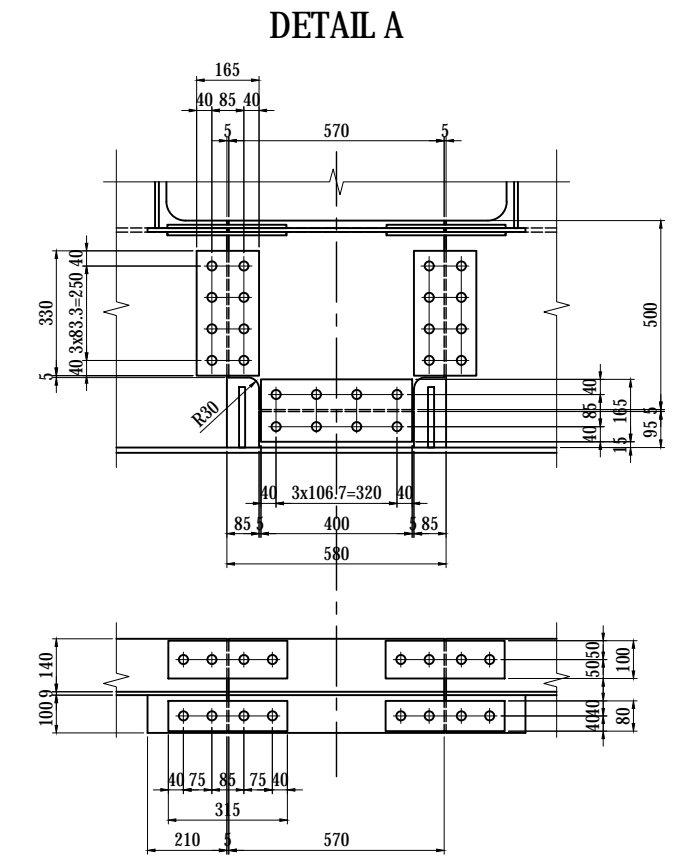
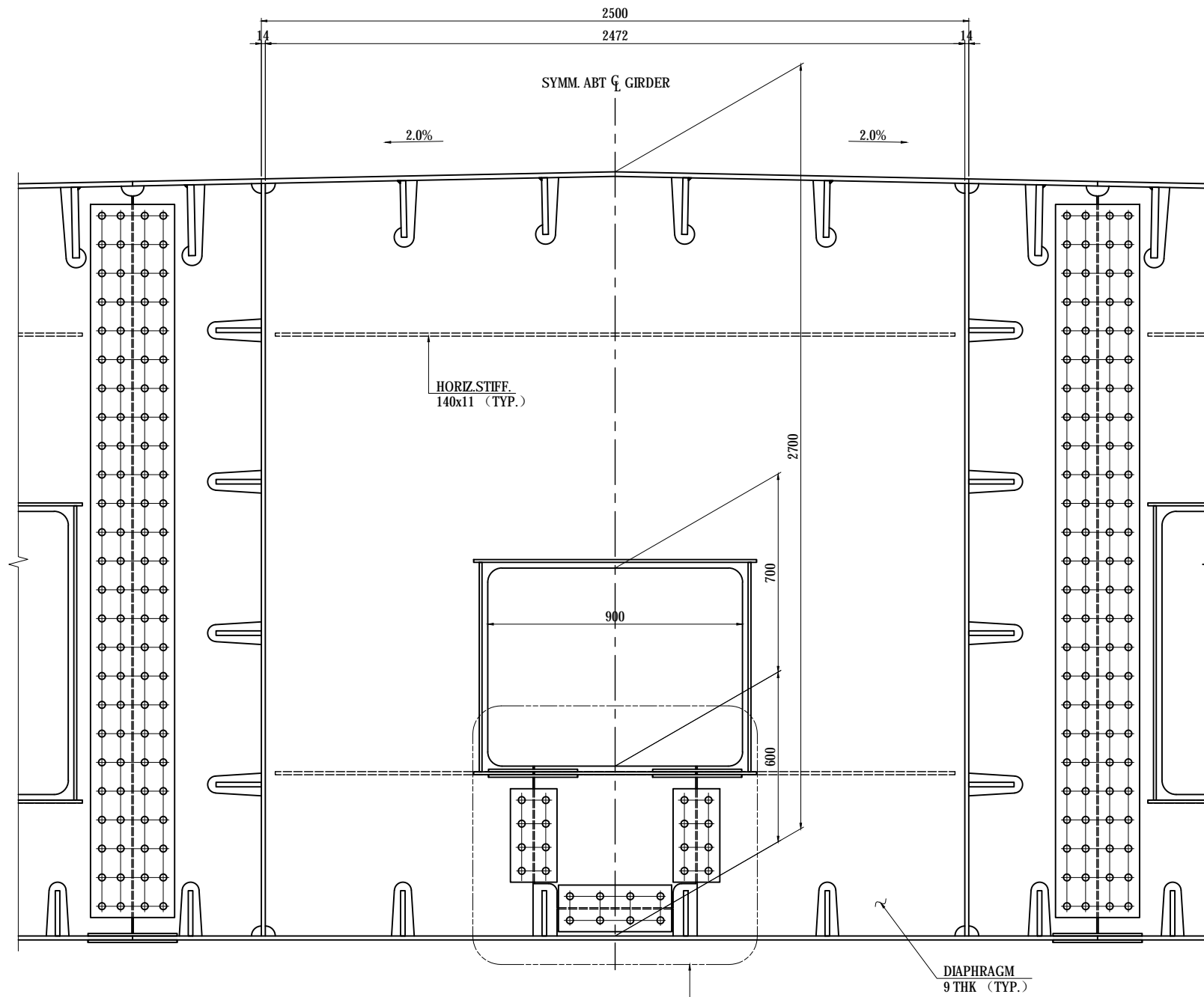
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C5 (3)

S=1:20

### DIAPHRAGM D9

### SECTION B-B

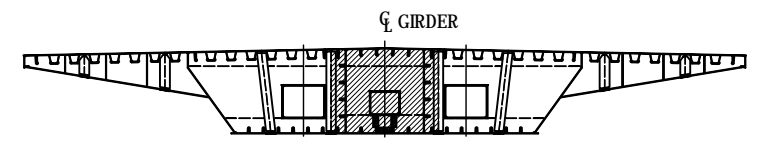


- 1-PL 95 x 9 x 410
- 1-PL 500 x 9 x 570
- 2-SPL PL 165 x 9 x 400 (SS400)
- 8-TCB M22 x 65 (S10T)
- 4-SPL PL 165 x 9 x 330 (SS400)
- 16-TCB M22 x 65 (S10T)
- 1-HSTIF PL 140 x 11 x 570
- 4-SPL PL 100 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)
- 1-COLLAR PL 100 x 10 x 570
- 2-COLLAR PL 100 x 10 x 210
- 4-SPL PL 80 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)

### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1426.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107 DIAPHRAGM TYPE D1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

### KEY DIAGRAM



- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 1-HSTIF PL 140 x 11 x 2402
- 2-HSTIF PL 140 x 11 x 911
- 2-COLLAR PL 100 x 10 x 1000
- 4-COLLAR PL 90 x 10 x 740

INSTALLATION AFTER ANCHOR THE STAY CABLE  
DETAIL A

|   |  |   |  |             |             |      |  |                                       |              |
|---|--|---|--|-------------|-------------|------|--|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C5 (3) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1428 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |  |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |  |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |  |                                       | 29. Nov.2017 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

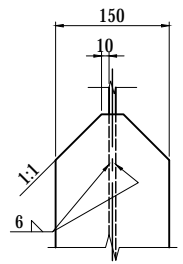
## CABLE NO.C5 (4)

S=1:20

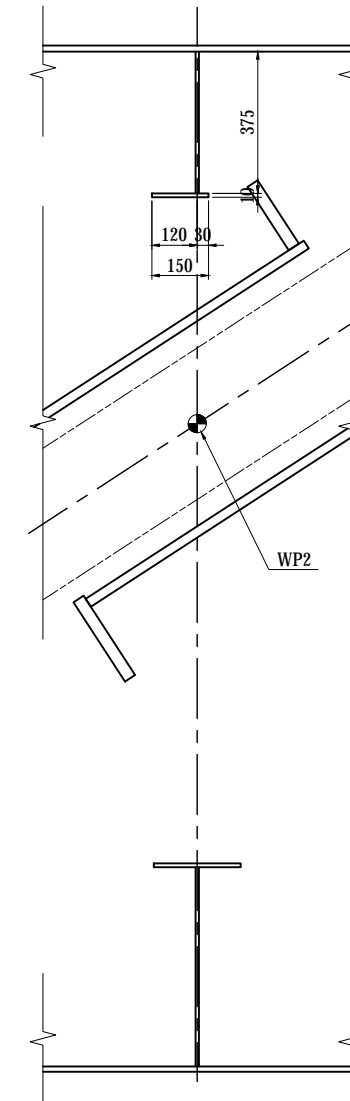
### CROSSFRAME R9 SECTION C-C

- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472

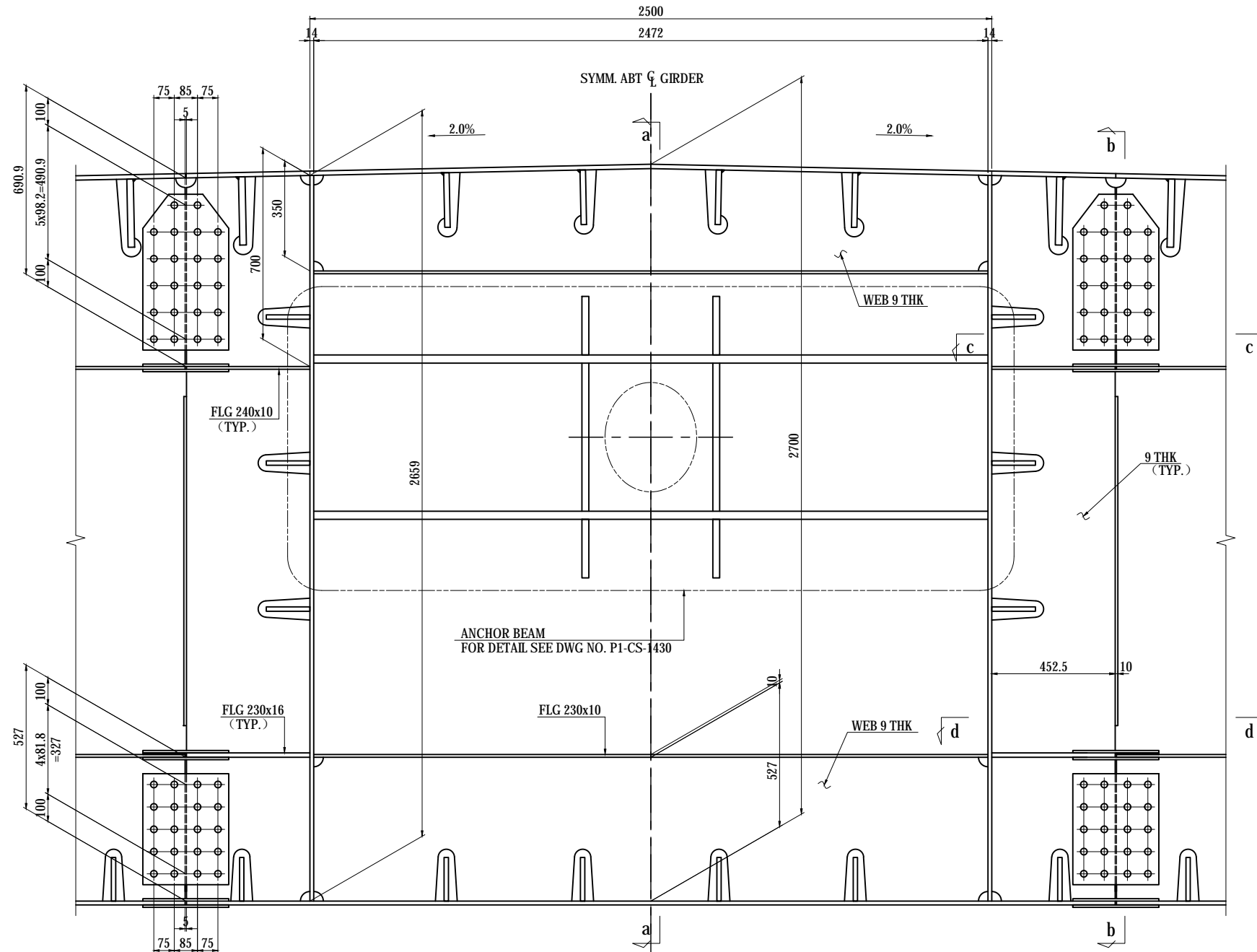
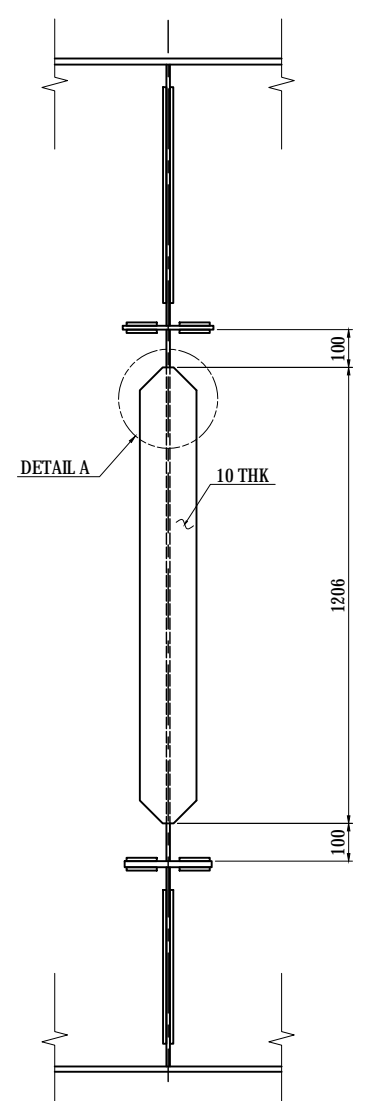
DETAIL A S=1:10



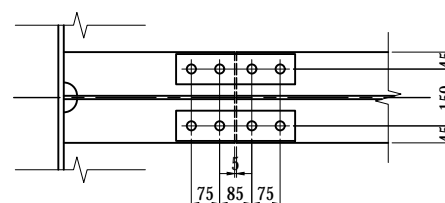
SECTION a-a



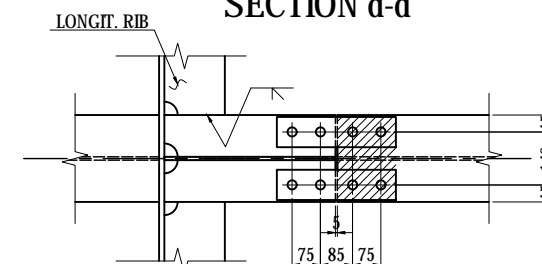
SECTION b-b



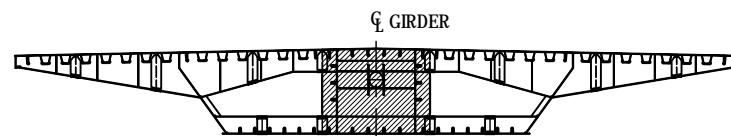
SECTION c-c



SECTION d-d



KEY DIAGRAM



NOTES:

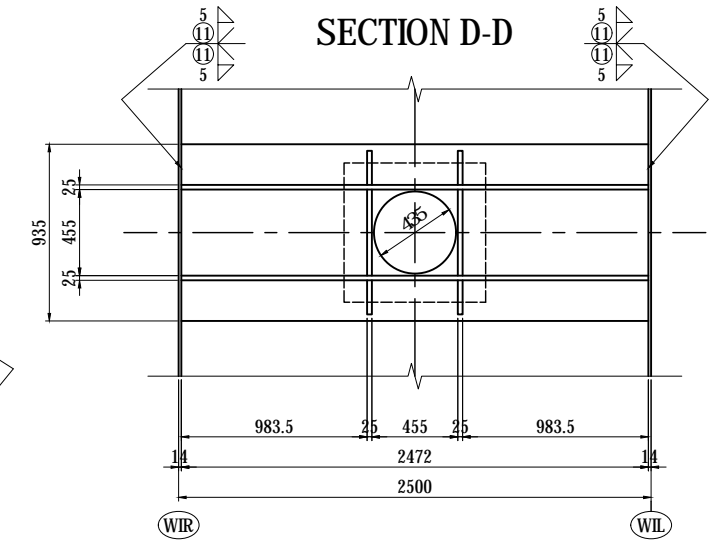
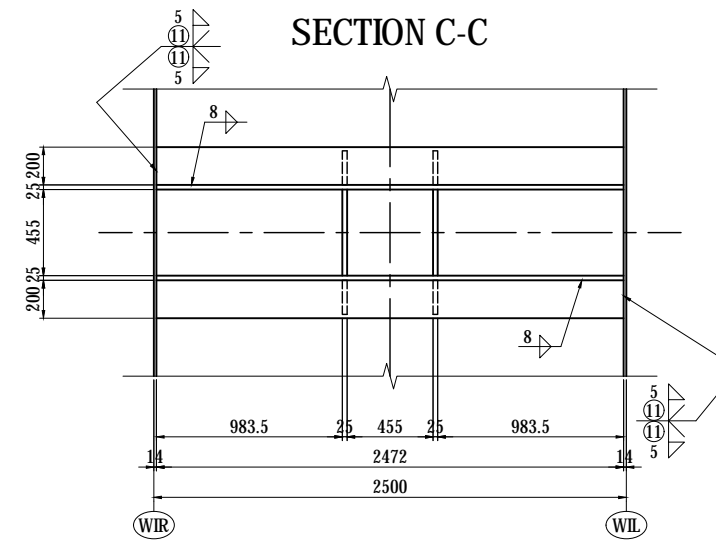
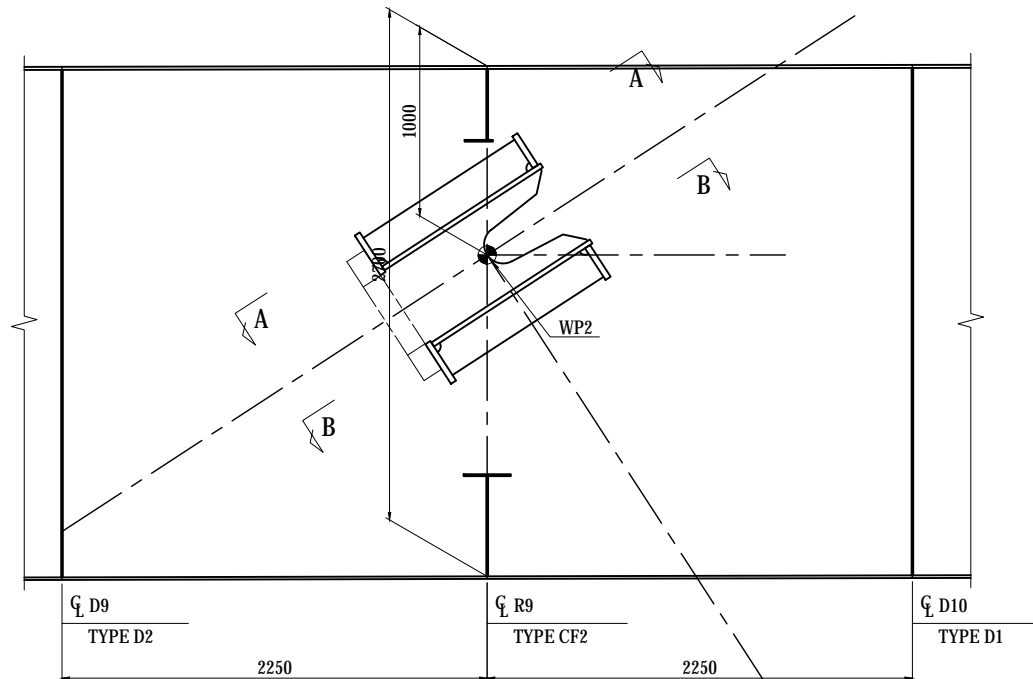
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1426.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>         CABLE NO.C5 (4)</b> | 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-1429 |

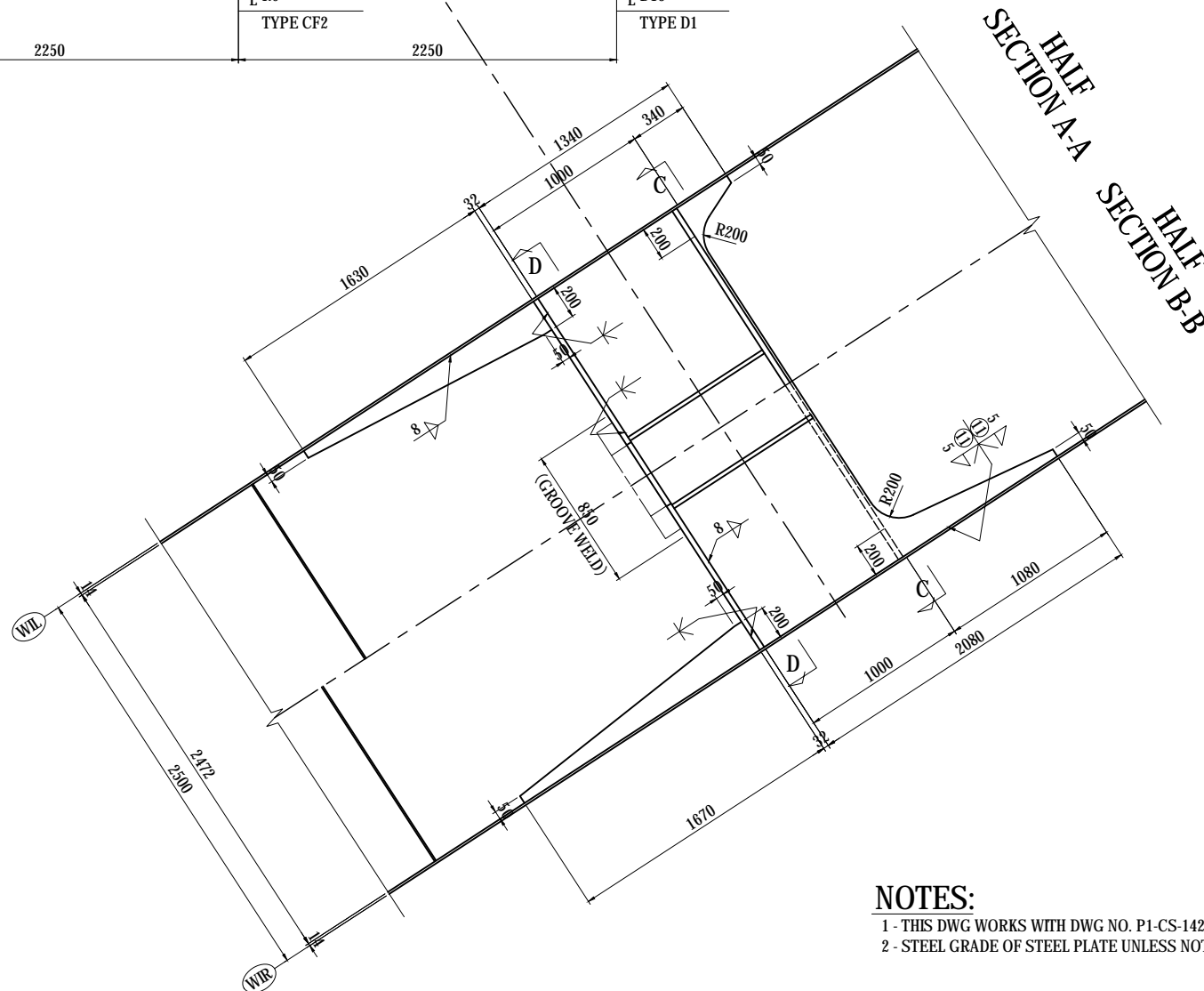
# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C5 (5)

S=1:40

**ANCHOR BEAM C5**

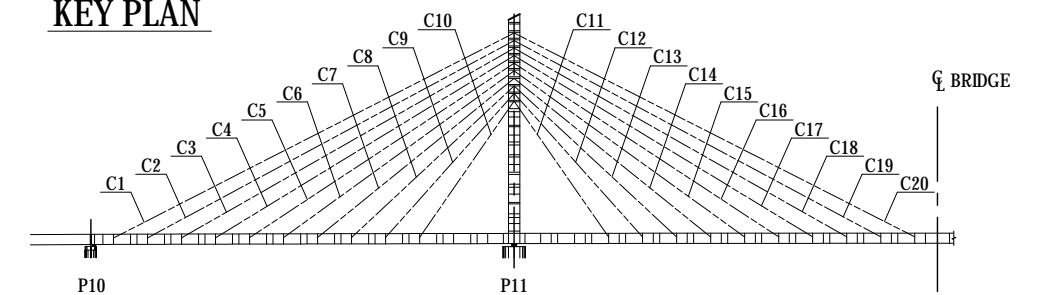


- 1-FLG PL 935 x 32 x 2472(SM490YB)
- 2-FLG PL 200 x 32 x 2472(SM490YB)
- 1-WEB PL 2080 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1940(SM490YB)
- 1-WEB PL 1340 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1630(SM490YB)
- 2-RIB PL 455 x 25 x 985(SM490YB)
- 4-RIB PL 180 x 25 x 953(SM490YB)
- 1- PL 750 x 110 x 750(SM400C-H)



**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1429.  
 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

**KEY PLAN**

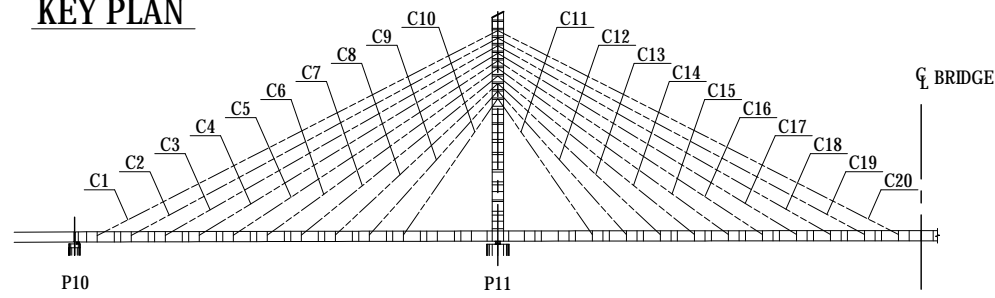


| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NAME</th> <th style="width: 10%;">SIGNATURE</th> <th style="width: 10%;">DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY</td> <td>T.TOMODA</td> <td>友田 隆雄</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>平川 知平</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>佐野 祐一</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY | T.TOMODA | 友田 隆雄 | CHECKED BY | T. HAYAKAWA | 平川 知平 | APPROVED BY | Y. SANO | 佐野 祐一 | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C5 (5)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1430 |
|---|--|---|--|---|------|-----------|------|-------------|----------|-------|------------|-------------|-------|-------------|---------|-------|---|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| PREPARED BY   | T.TOMODA   | 友田 隆雄   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| CHECKED BY  | T. HAYAKAWA  | 平川 知平   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |
| APPROVED BY   | Y. SANO  | 佐野 祐一   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |   |                                       |

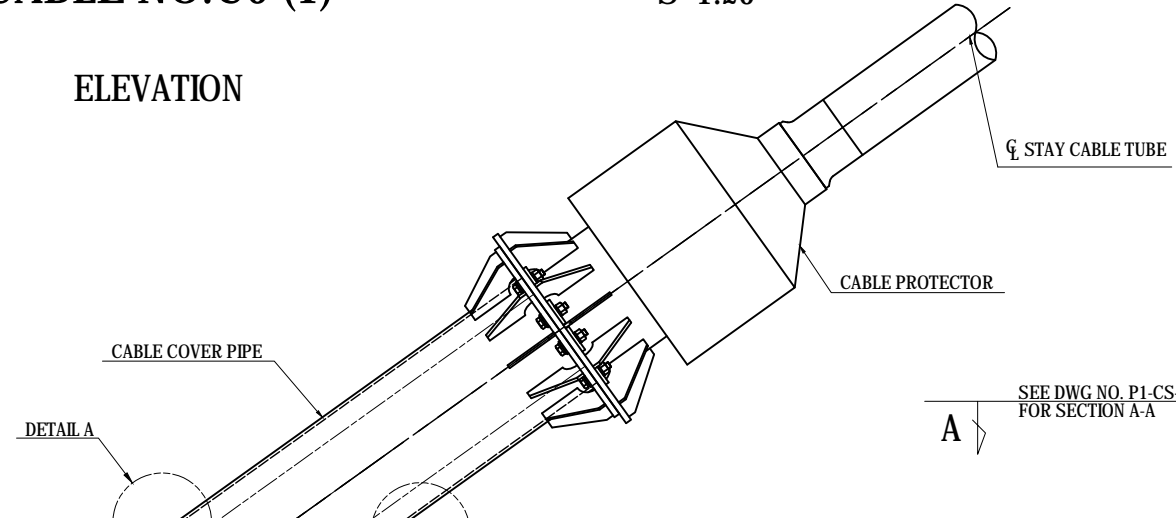
# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C6 (1)

S=1:20

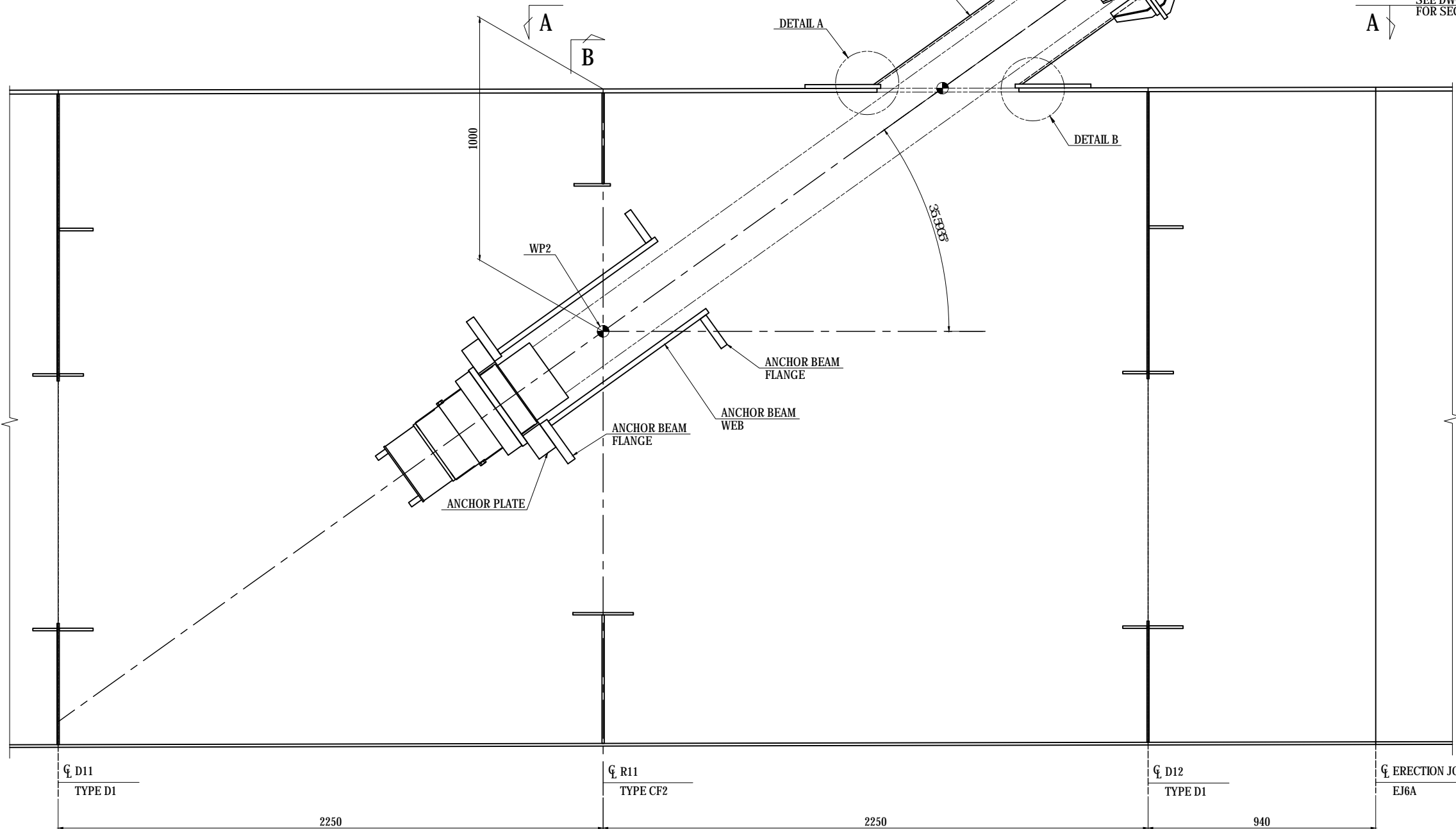
**KEY PLAN**



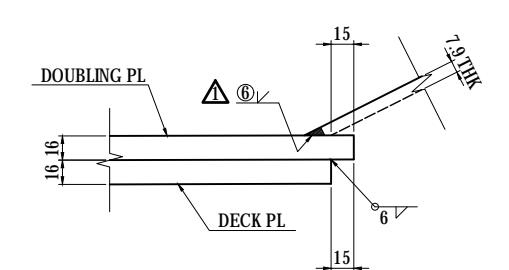
**ELEVATION**



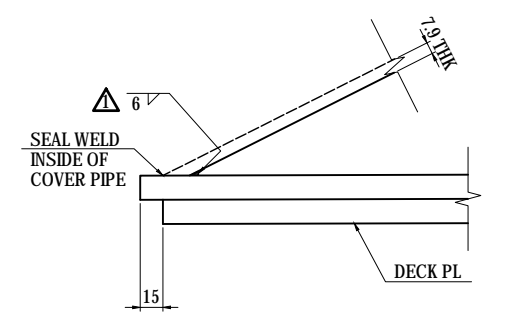
SEE DWG NO. P1-CS-1432  
FOR SECTION A-A



**DETAIL A S=1:5**



**DETAIL B S=1:5**



△ TRANSITION SEE DWG NO. P1-CS-1432.

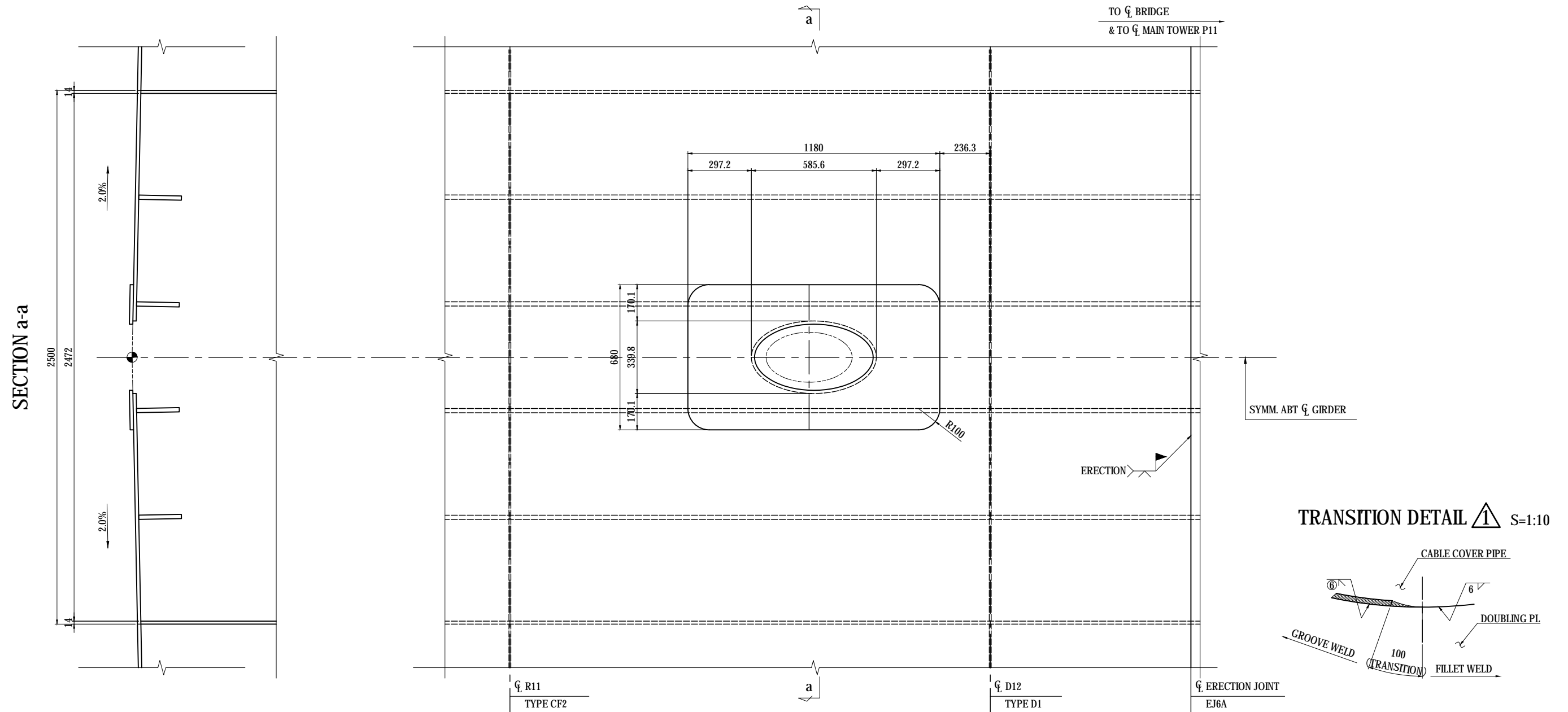
**B**  
SEE DWG NO. P1-CS-1433  
FOR CROSSFRAME SECTION B-B

| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>         CABLE NO.C6 (1)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1431 |
|---|--|---|--|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|---|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |

# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C6 (2)

S=1:20

## SECTION A-A



- 1-PL 680 x 16 x 1180
- 1-PIPE 355.6 x 7.9 x 1133 (STK400)
- 12-RIB PL 88 x 9 x 150
- 1-FLG PL 544 x 16 x 544

### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1431.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><h3 style="text-align: center;">MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C6 (2)</h3> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1432 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|---|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

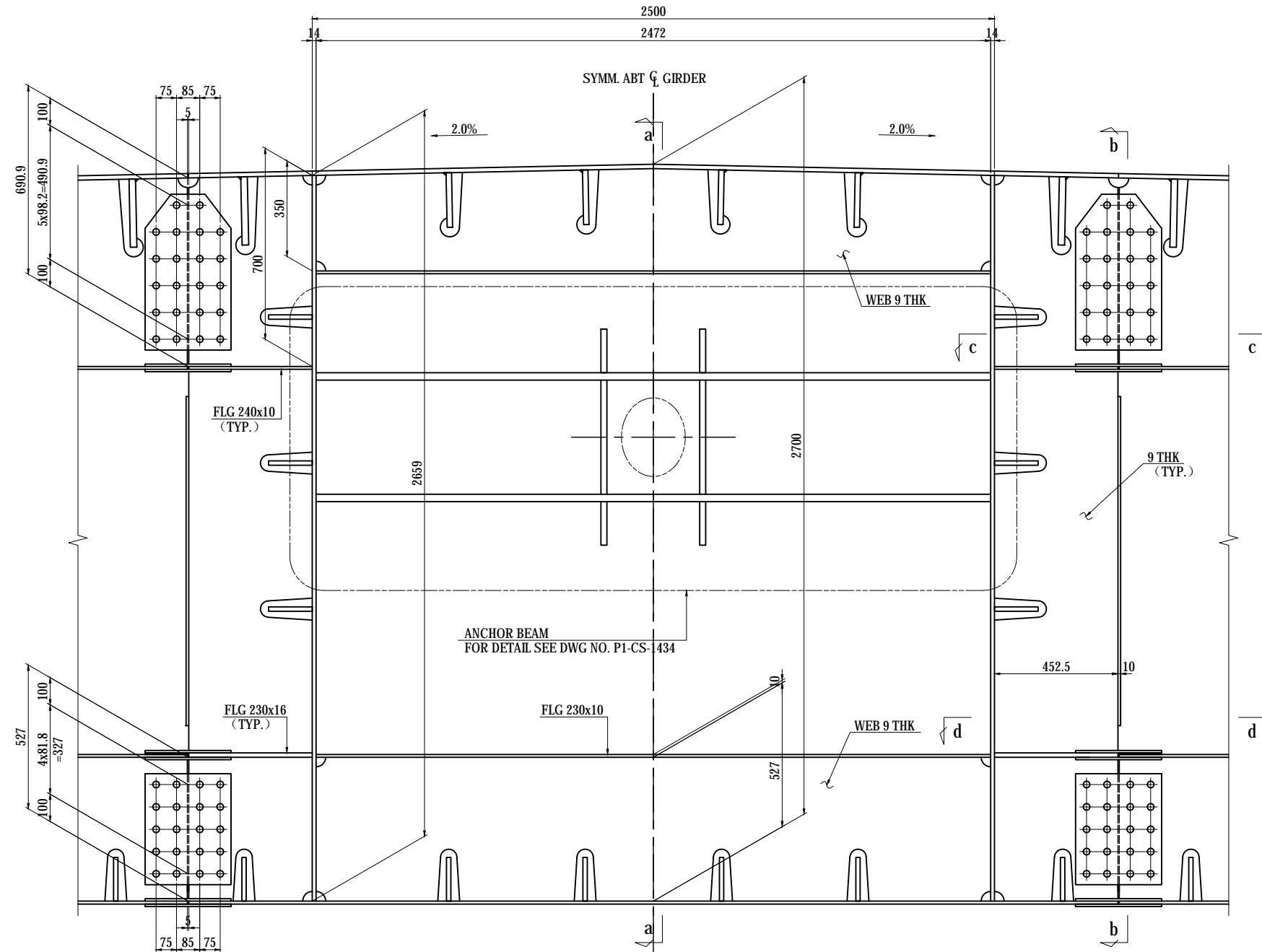
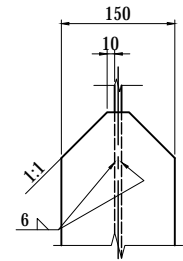
## CABLE NO.C6 (3)

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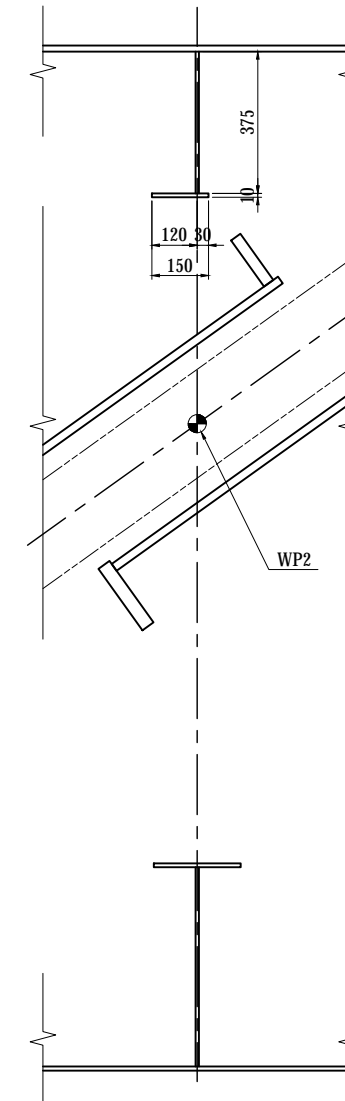
### CROSSFRAME R11 SECTION B-B

- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472

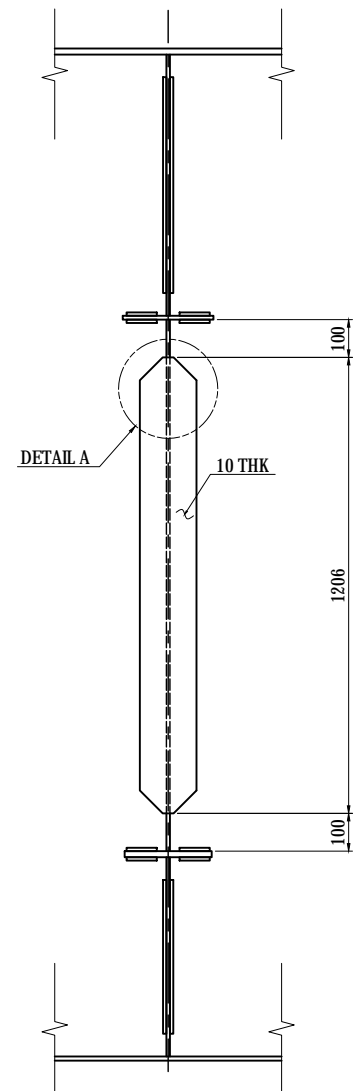
DETAIL A S=1:10



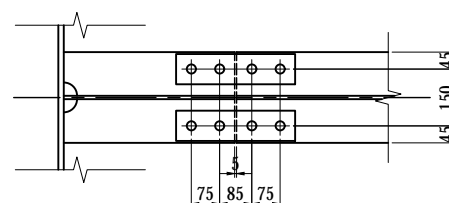
SECTION a-a



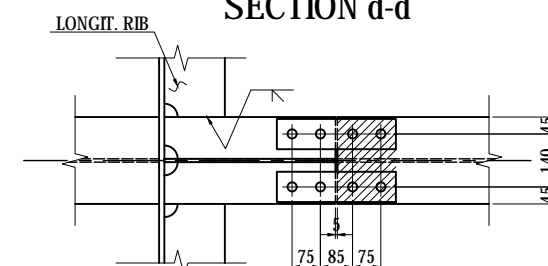
SECTION b-b



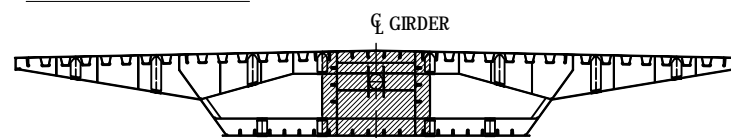
SECTION c-c



SECTION d-d



KEY DIAGRAM



#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1431.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

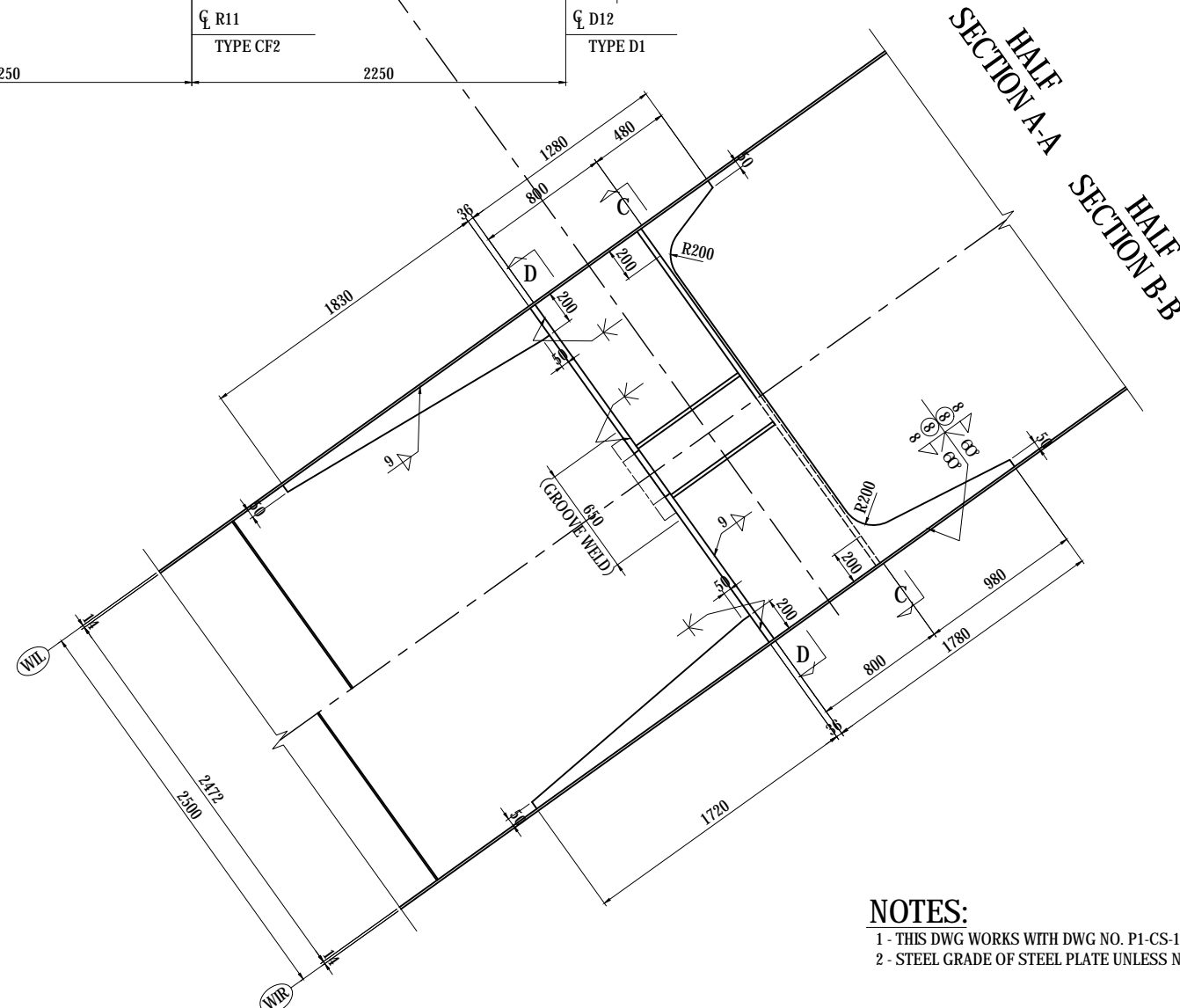
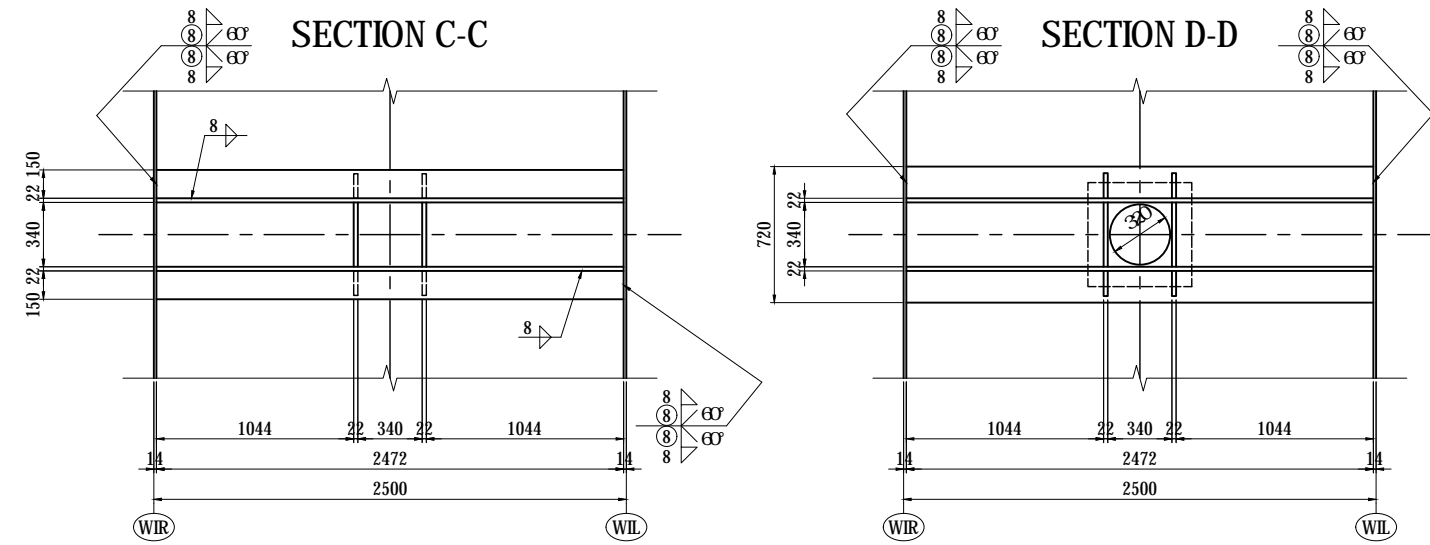
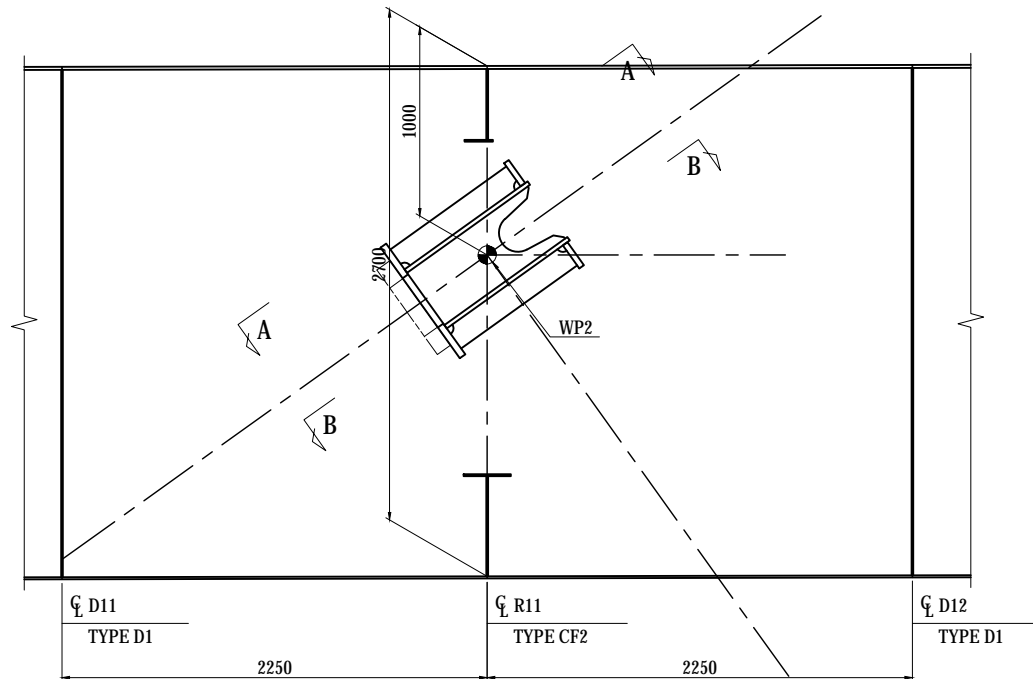
|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C6 (3)</b> | 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-1433 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C6 (4)

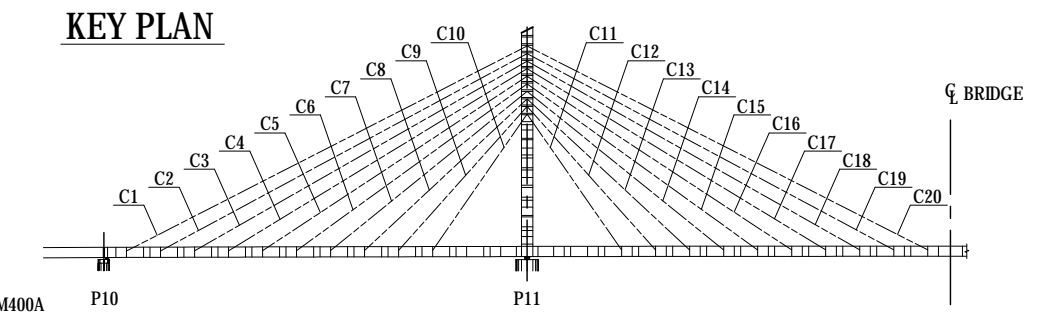
S=1:40

**ANCHOR BEAM C6**



- 1-FLG PL 720 x 36 x 2472(SM490YB)
- 2-FLG PL 150 x 30 x 2472(SM490YB)
- 1-WEB PL 1780 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 2090(SM490YB)
- 1-WEB PL 1280 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1830(SM490YB)
- 2-RIB PL 340 x 22 x 785(SM490YB)
- 4-RIB PL 130 x 22 x 755(SM490YB)
- 1- PL 550 x 85 x 550(SM400C-H)

**KEY PLAN**



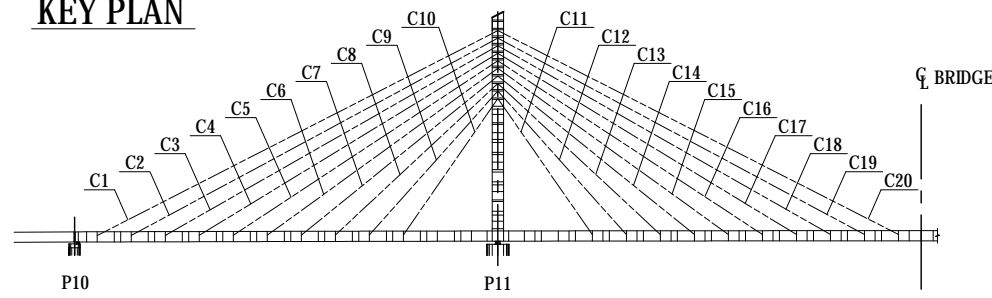
**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1433.  
 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NAME</th> <th style="width: 10%;">SIGNATURE</th> <th style="width: 10%;">DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY</td> <td>T.TOMODA</td> <td>友田 隆雄</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>平川 知平</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>佐野 祐一</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY | T.TOMODA | 友田 隆雄 | CHECKED BY | T. HAYAKAWA | 平川 知平 | APPROVED BY | Y. SANO | 佐野 祐一 | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C6 (4)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1434 |
|---|--|---|--|---|------|-----------|------|-------------|----------|-------|------------|-------------|-------|-------------|---------|-------|--|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |             |          |       |            |             |       |             |         |       |  |                                       |
| PREPARED BY   | T.TOMODA   | 友田 隆雄   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |  |                                       |
| CHECKED BY  | T. HAYAKAWA  | 平川 知平   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |  |                                       |
| APPROVED BY   | Y. SANO  | 佐野 祐一   |  |   |      |           |      |             |          |       |            |             |       |             |         |       |  |                                       |

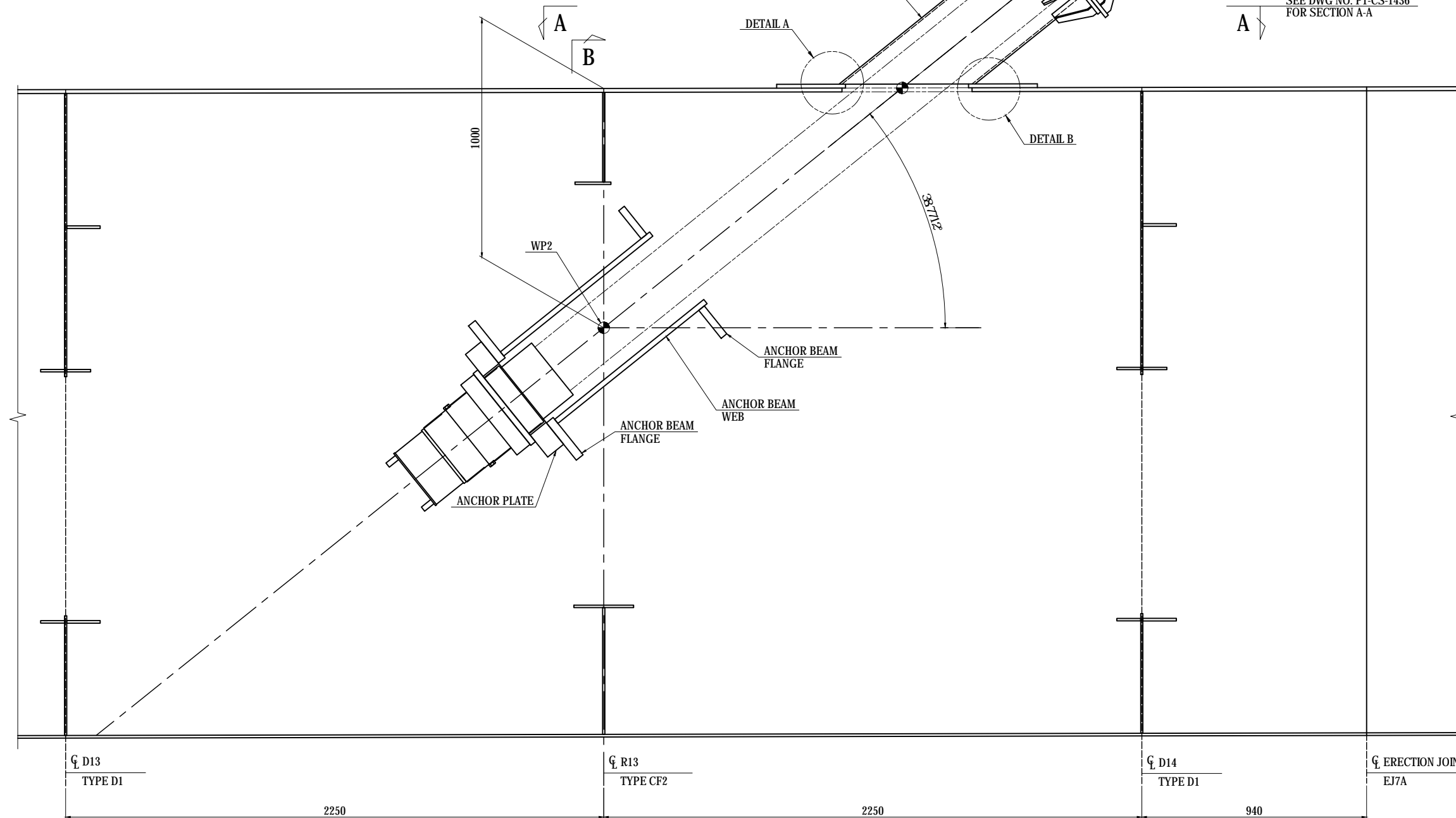
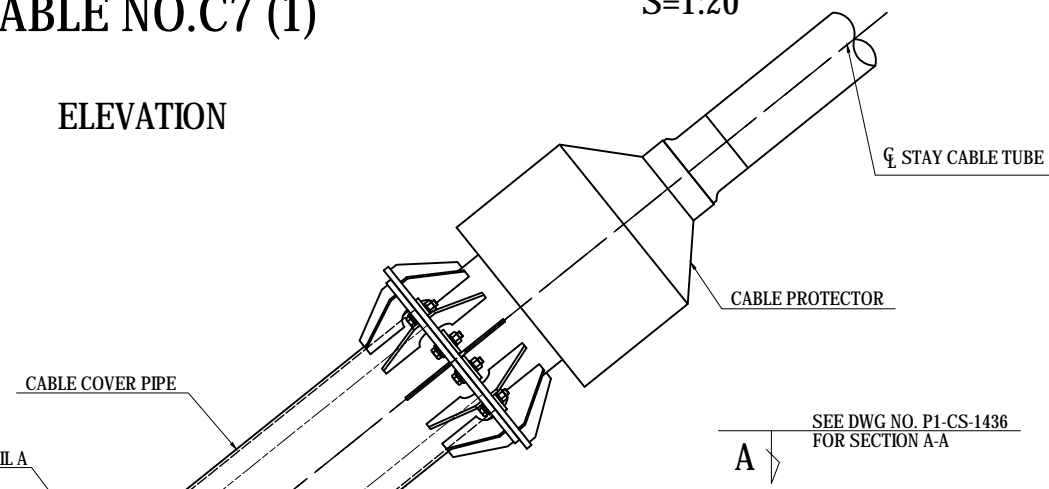
# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C7 (1)

S=1:20

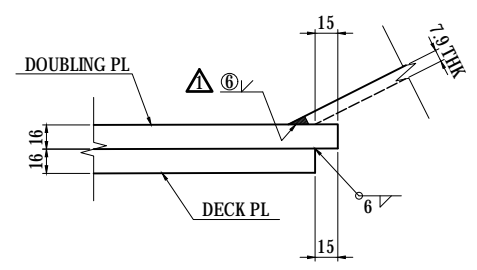
**KEY PLAN**



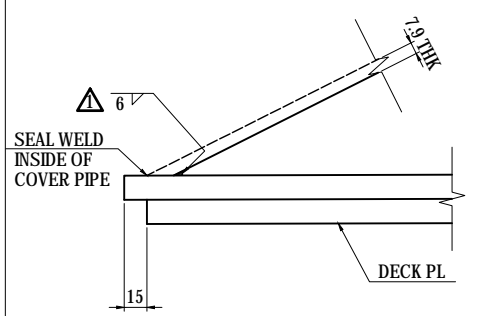
**ELEVATION**



**DETAIL A S=1:5**



**DETAIL B S=1:5**



△ TRANSITION SEE DWG NO. P1-CS-1436.

**B**  
SEE DWG NO. P1-CS-1437  
FOR CROSSFRAME SECTION B-B

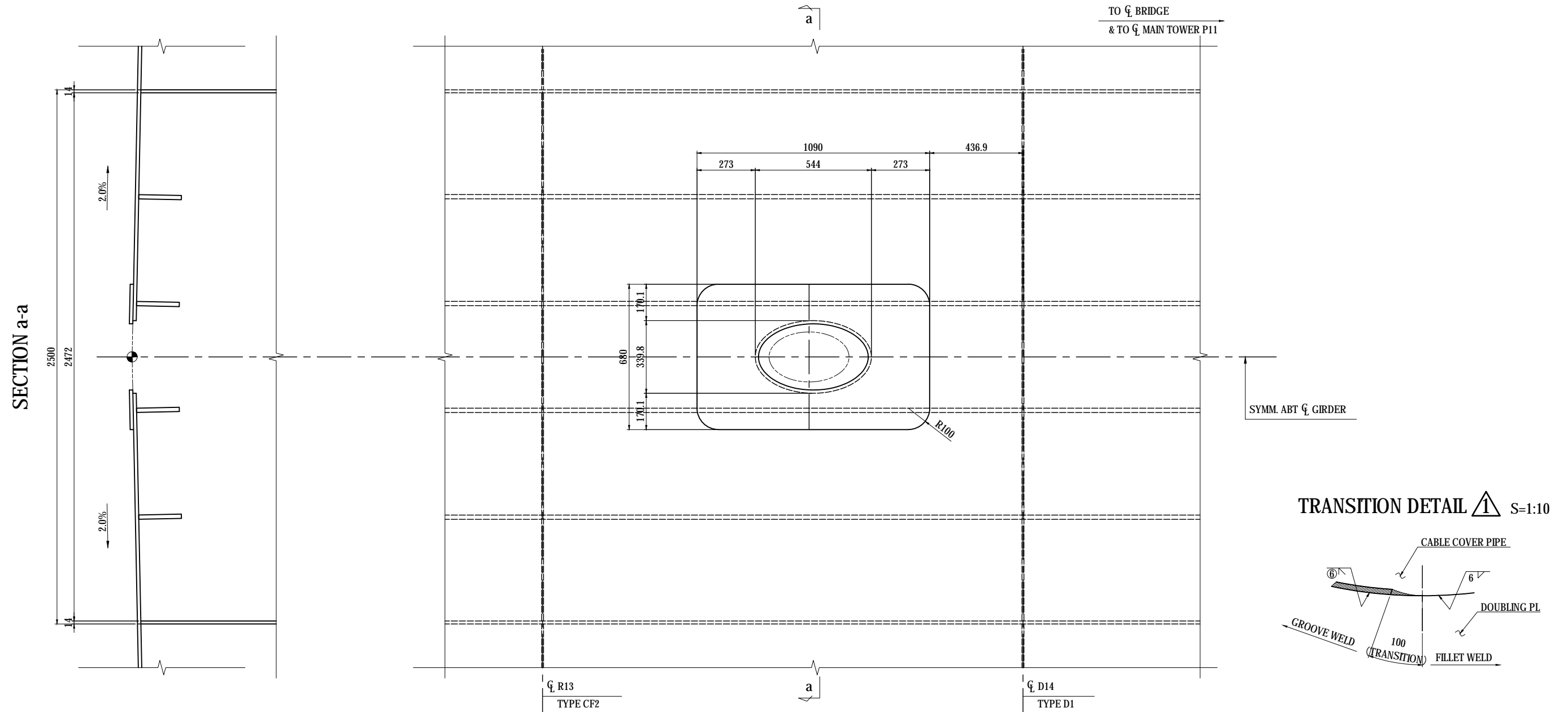
| <p>PROJECT NAME<br/>DETAILED DESIGN ON<br/>BAGO RIVER BRIDGE<br/>CONSTRUCTION PROJECT</p> | <p>FINANCED BY<br/> JAPAN INTERNATIONAL<br/>COOPERATION AGENCY</p> | <p>COUNTERPART<br/> REPUBLIC OF THE UNION OF MYANMAR<br/>MINISTRY OF CONSTRUCTION<br/>DEPARTMENT OF BRIDGE</p> | <p>JICA STUDY TEAM<br/> NIPPON KOEI CO., LTD.<br/> ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br/> METROPOLITAN EXPRESSWAY COMPANY LIMITED<br/> CHODAI CO., LTD.<br/> NIPPON ENGINEERING CONSULTANTS CO., LTD.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | <p>DRAWING TITLE<br/><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C7 (1)</b></p> | <p>PACKAGE<br/>1<br/>DWG No.<br/>P1-CS-1435</p> |
|---|--|--|---|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|--|---|
| NAME  | SIGNATURE  | DATE   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |



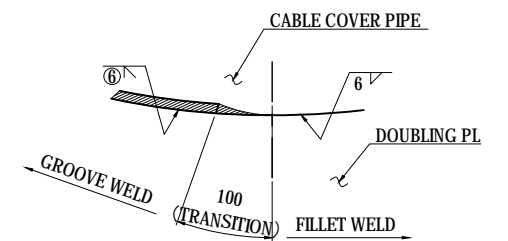
# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C7 (2)

S=1:20

## SECTION A-A



### TRANSITION DETAIL 1 S=1:10



- 1-PL 680 x 16 x 1090
- 1-PIPE 355.6 x 7.9 x 1043 (STK400)
- 12-RIB PL 88 x 9 x 150
- 1-FLG PL 544 x 16 x 544

#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1435.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><h3 style="text-align: center;">MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C7 (2)</h3> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1436 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|---|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

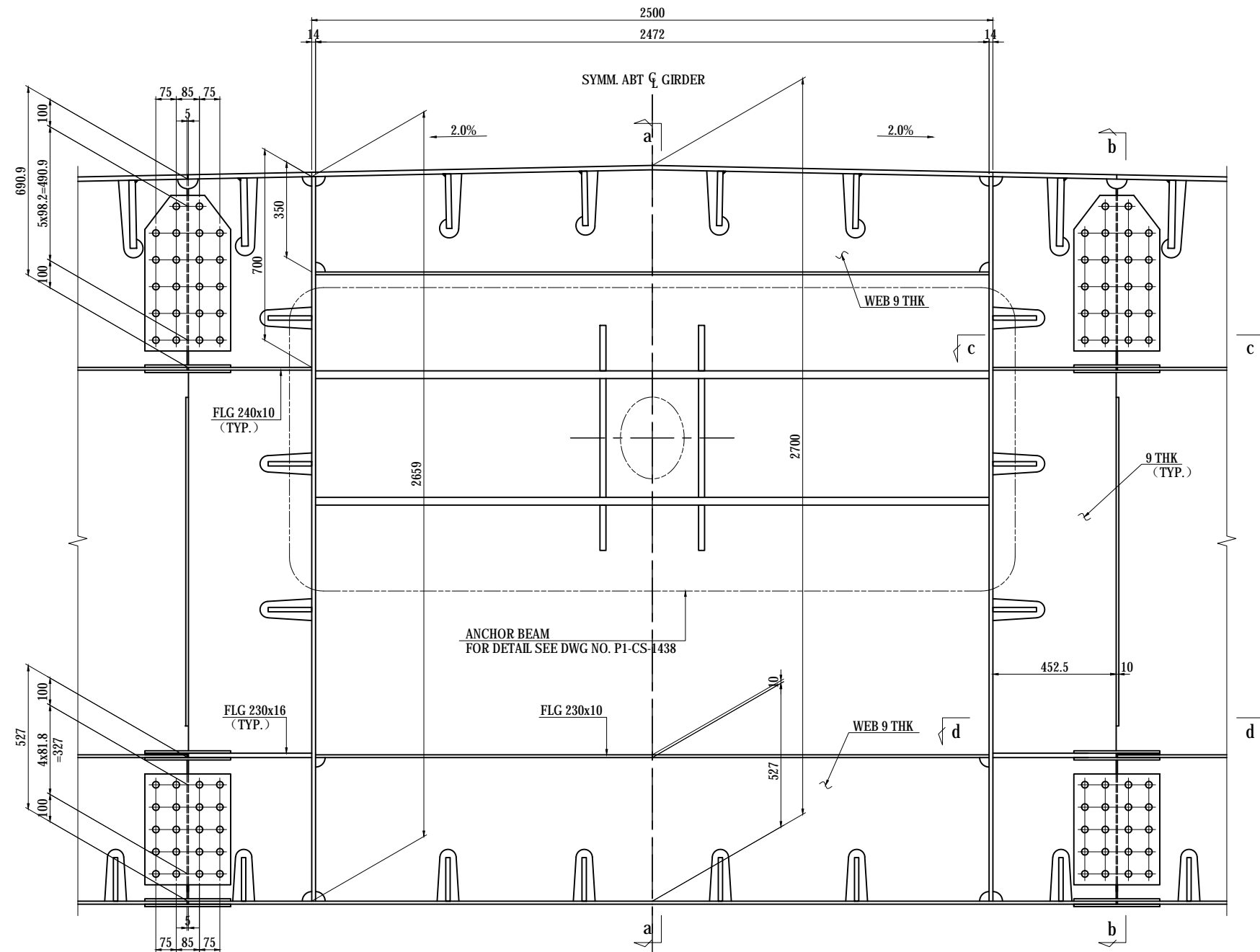
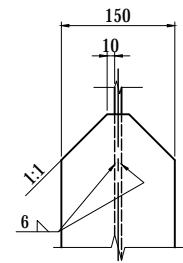
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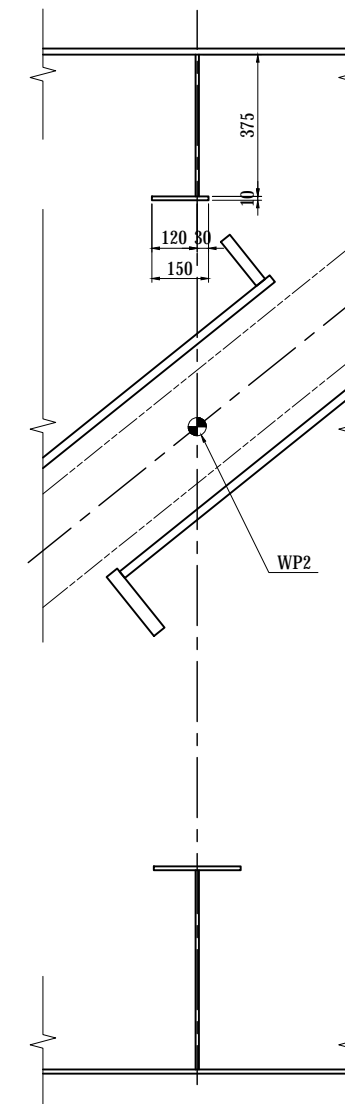
### CROSSFRAME R13 SECTION B-B

- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472

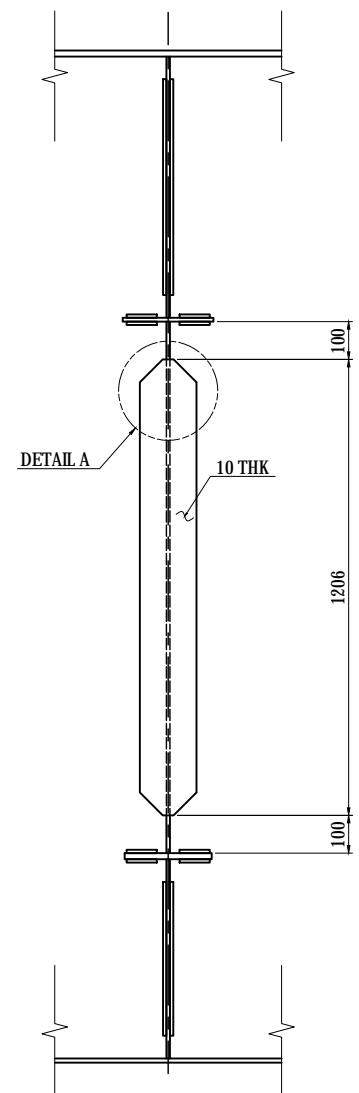
DETAIL A S=1:10



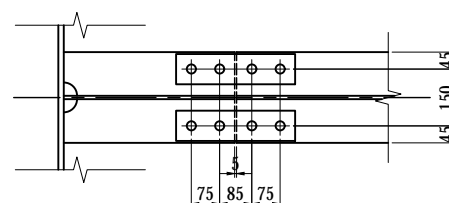
SECTION a-a



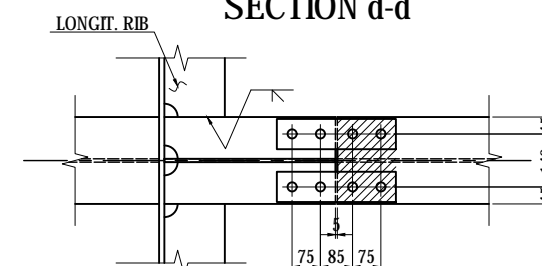
SECTION b-b



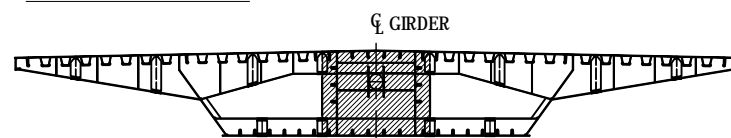
SECTION c-c



SECTION d-d



KEY DIAGRAM



#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1435.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

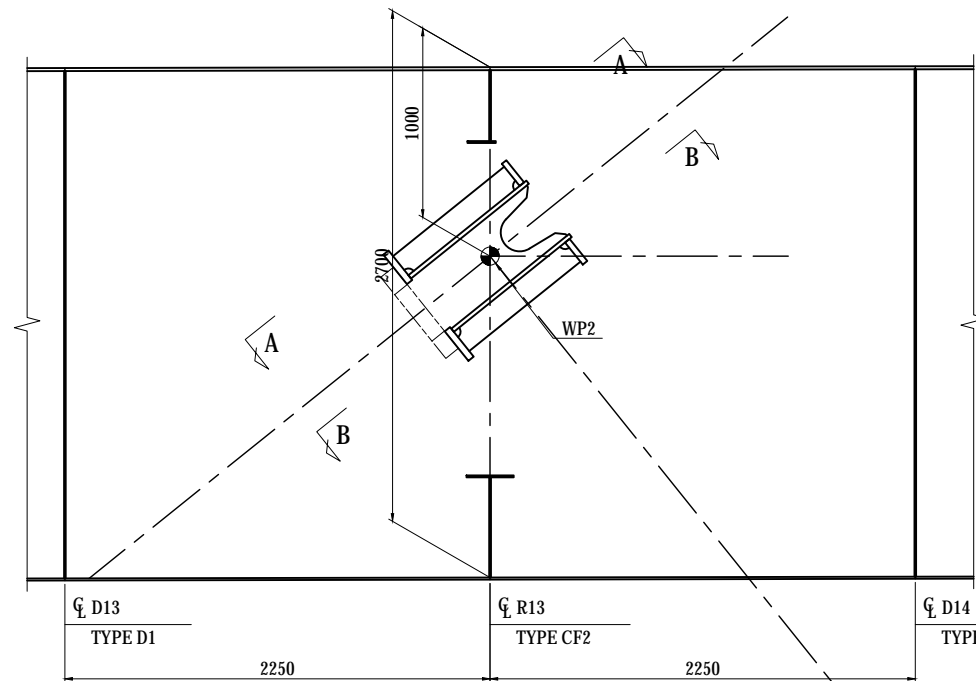
|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C7 (3)</b> | 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-1437 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

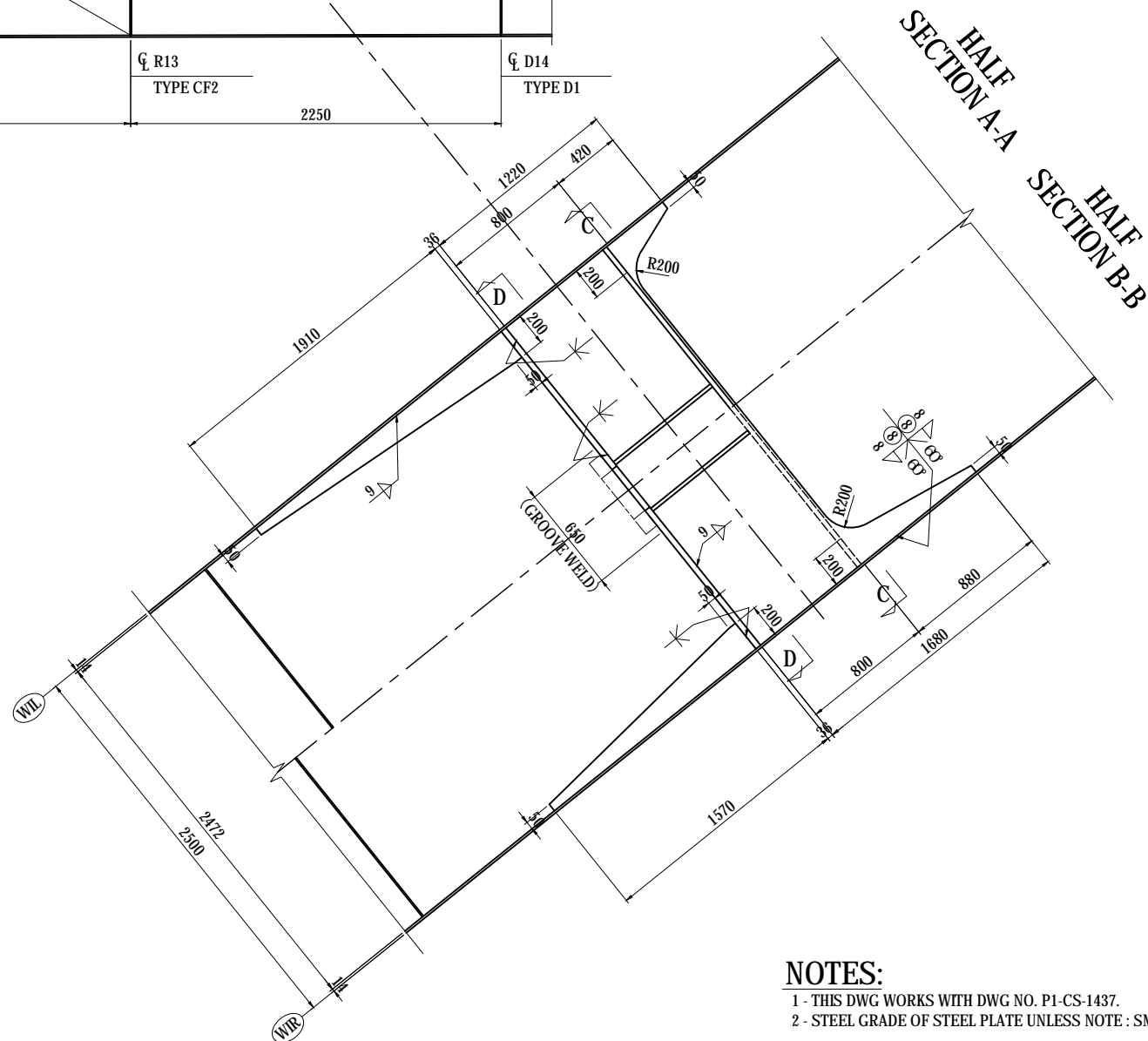
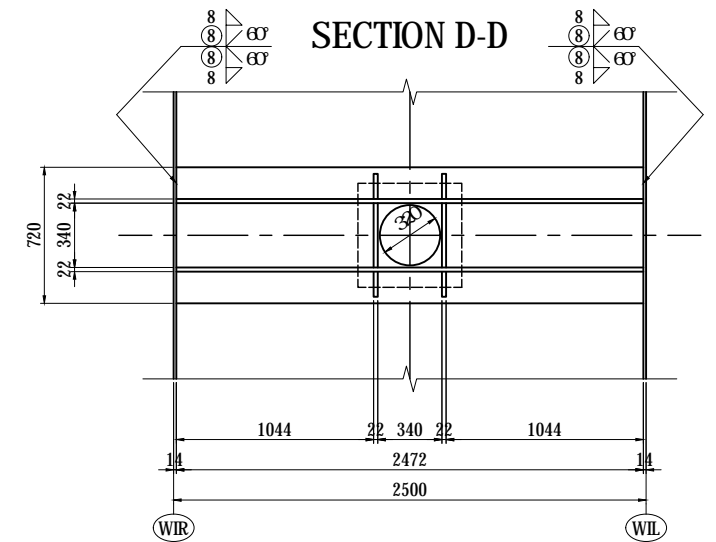
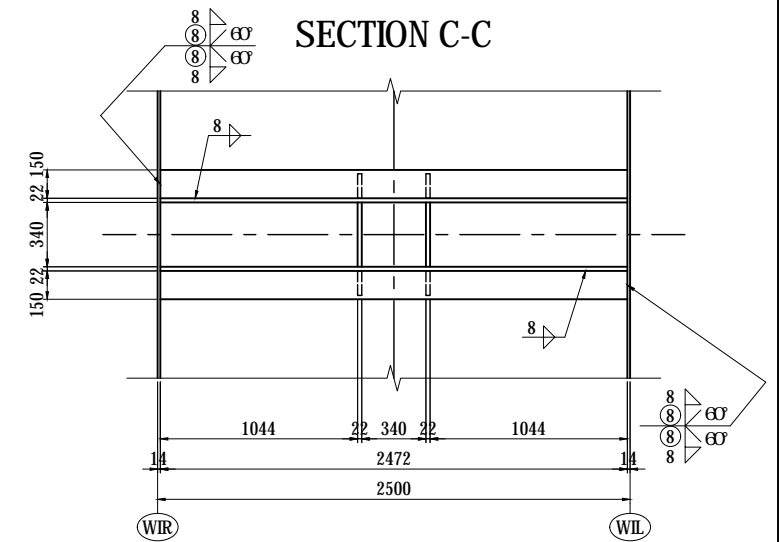
## CABLE NO.C7 (4)

S=1:40

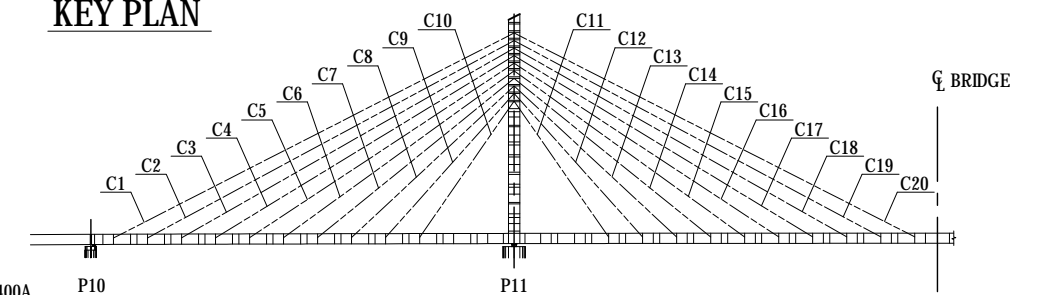
### ANCHOR BEAM C7



- 1-FLG PL 720 x 36 x 2472(SM490YB)
- 2-FLG PL 150 x 30 x 2472(SM490YB)
- 1-WEB PL 1680 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1570(SM490YB)
- 1-WEB PL 1220 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1910(SM490YB)
- 2-RIB PL 340 x 22 x 785(SM490YB)
- 4-RIB PL 130 x 22 x 755(SM490YB)
- 1- PL 550 x 85 x 550(SM400C-H)



### KEY PLAN



### NOTES:

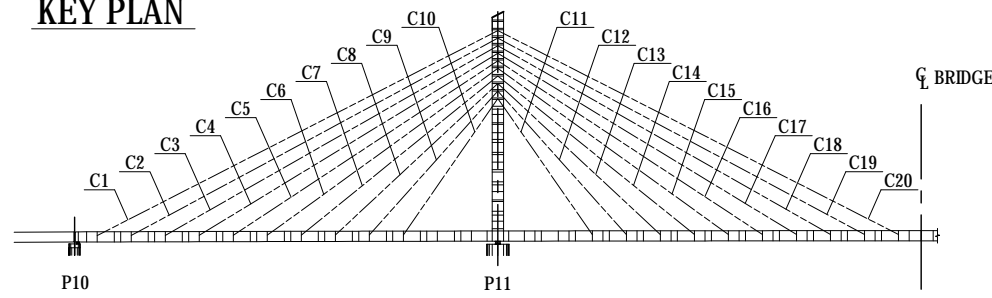
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1437.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| 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 | MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C7 (4) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov.2017 |  | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov.2017 |  | P1-CS-1438 |

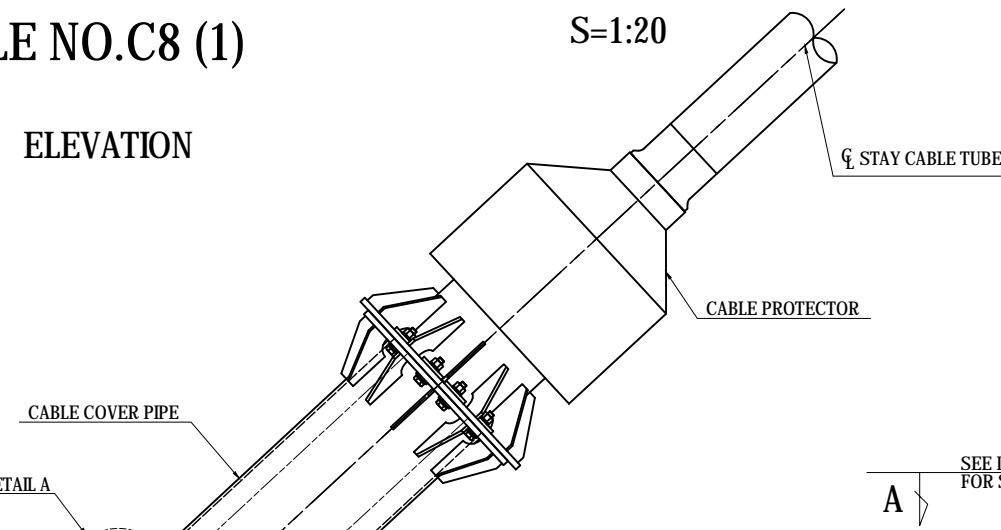
# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C8 (1)

S=1:20

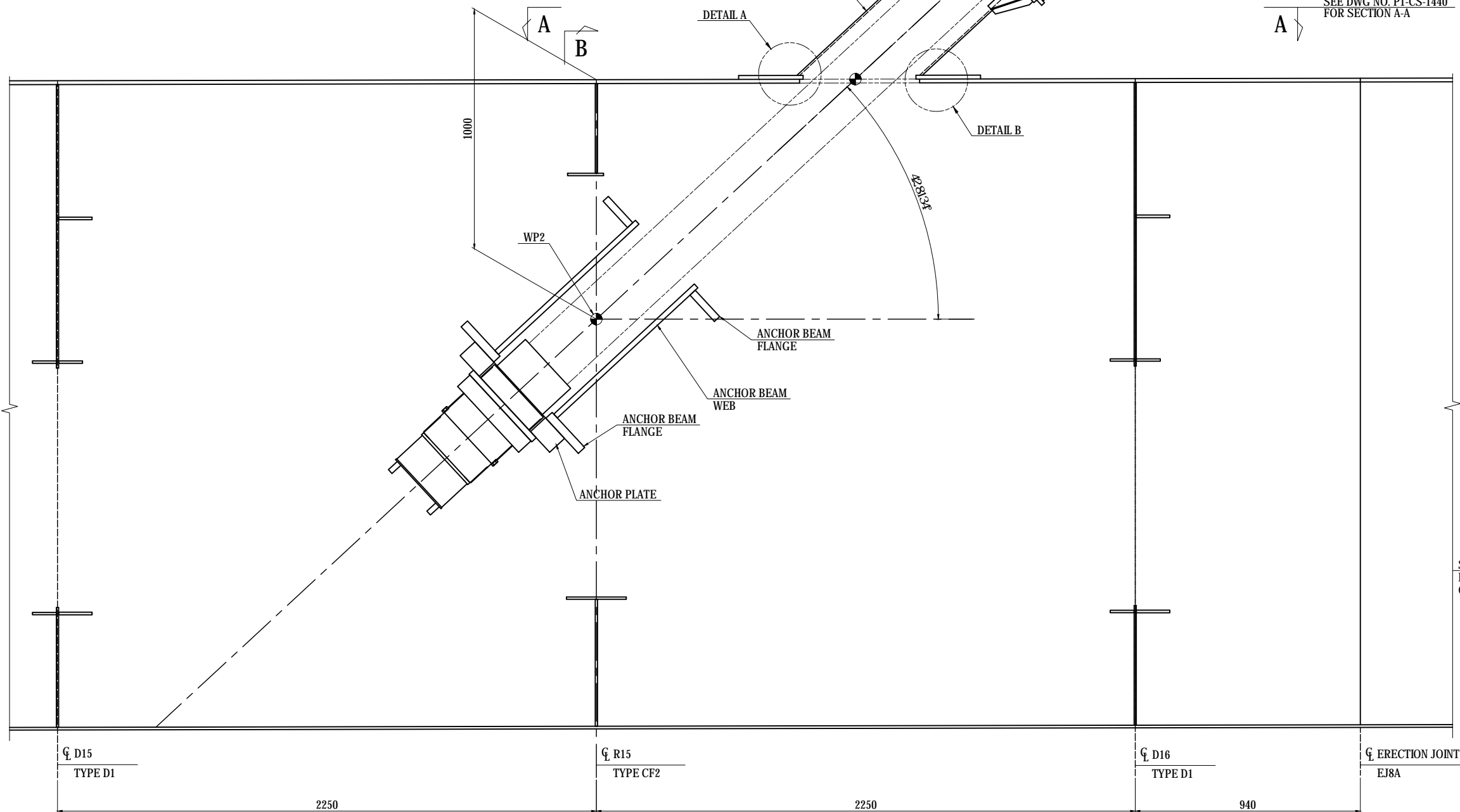
**KEY PLAN**



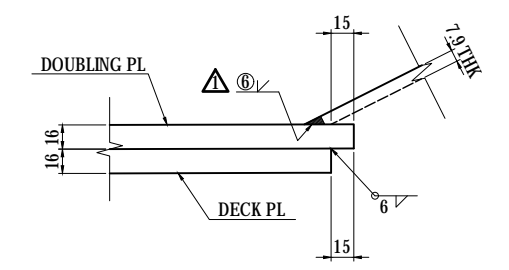
**ELEVATION**



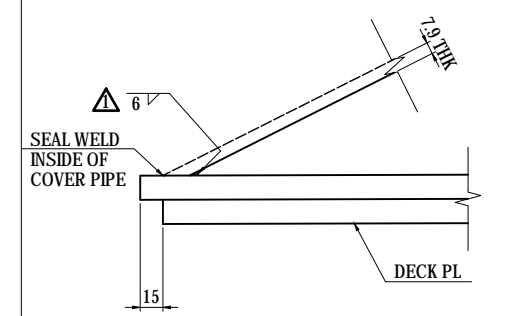
SEE DWG NO. P1-CS-1440  
FOR SECTION A-A



**DETAIL A S=1:5**



**DETAIL B S=1:5**



△ TRANSITION SEE DWG NO. P1-CS-1440.

**B**  
SEE DWG NO. P1-CS-1441  
FOR CROSSFRAME SECTION B-B

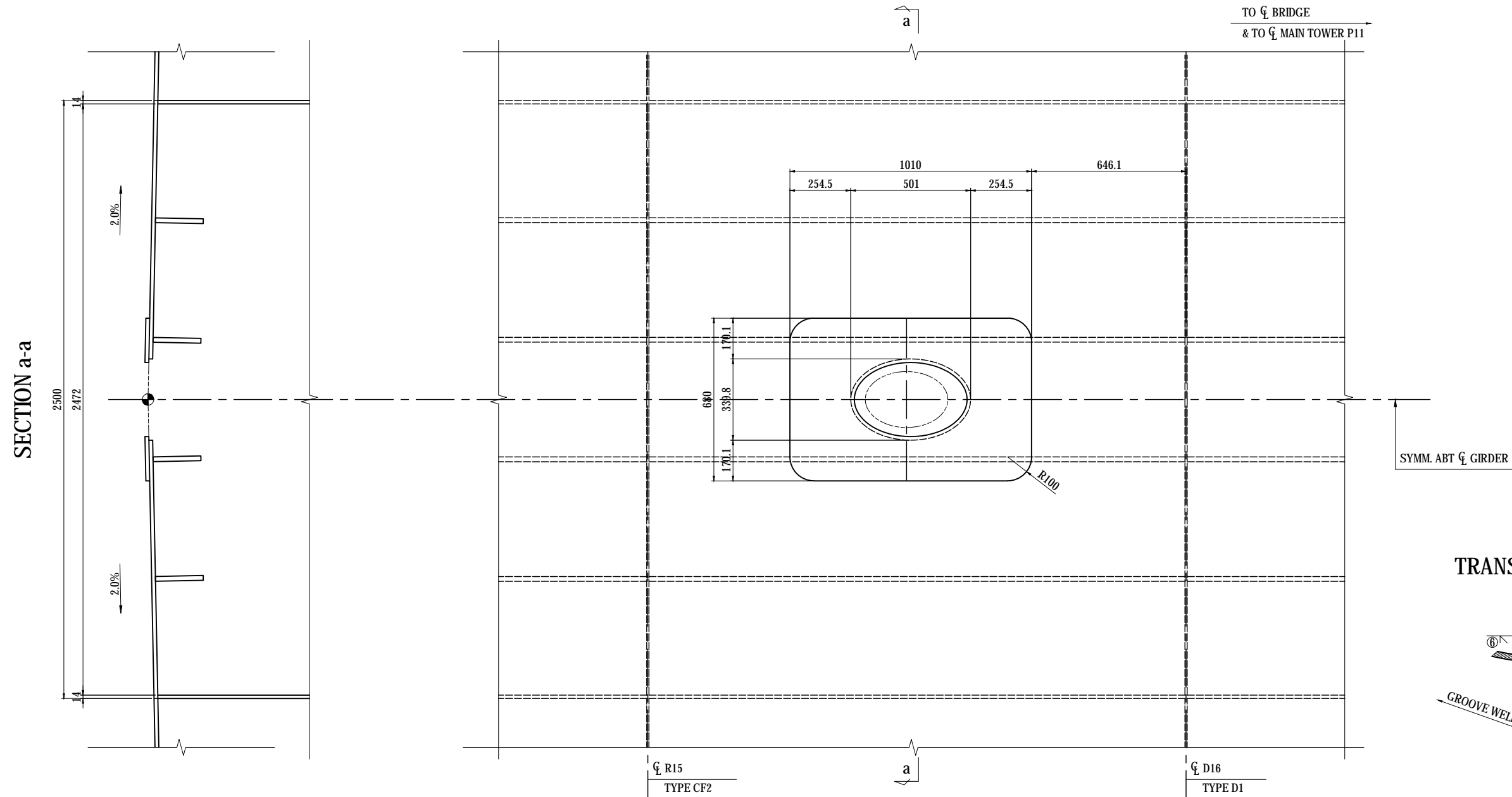
| <p>PROJECT NAME<br/>DETAILED DESIGN ON<br/>BAGO RIVER BRIDGE<br/>CONSTRUCTION PROJECT</p> | <p>FINANCED BY<br/> JAPAN INTERNATIONAL<br/>COOPERATION AGENCY</p> | <p>COUNTERPART<br/> REPUBLIC OF THE UNION OF MYANMAR<br/>MINISTRY OF CONSTRUCTION<br/>DEPARTMENT OF BRIDGE</p> | <p>JICA STUDY TEAM<br/> NIPPON KOEI CO., LTD.<br/> ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br/> METROPOLITAN EXPRESSWAY COMPANY LIMITED<br/> CHODAI CO., LTD.<br/> NIPPON ENGINEERING CONSULTANTS CO., LTD.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | <p>DRAWING TITLE<br/><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C8 (1)</b></p> | <p>PACKAGE<br/>1<br/>DWG No.<br/>P1-CS-1439</p> |
|---|--|--|---|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|--|---|
| NAME  | SIGNATURE  | DATE   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

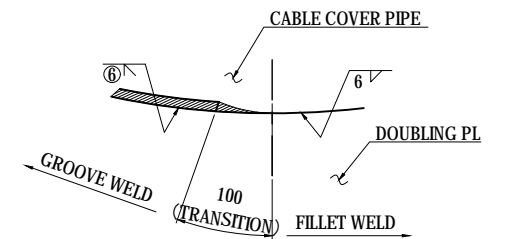
## CABLE NO.C8 (2)

S=1:20

### SECTION A-A



### TRANSITION DETAIL ① S=1:10



- 1-PL 680 x 16 x 1010
- 1-PIPE 355.6 x 7.9 x 949 (STK400)
- 12-RIB PL 88 x 9 x 150
- 1-FLG PL 544 x 16 x 544

#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1439.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><h2 style="text-align: center;">MAIN GIRDER ANCHORAGE OF STAY CABLES</h2> <h3 style="text-align: center;">CABLE NO.C8 (2)</h3> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1440 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

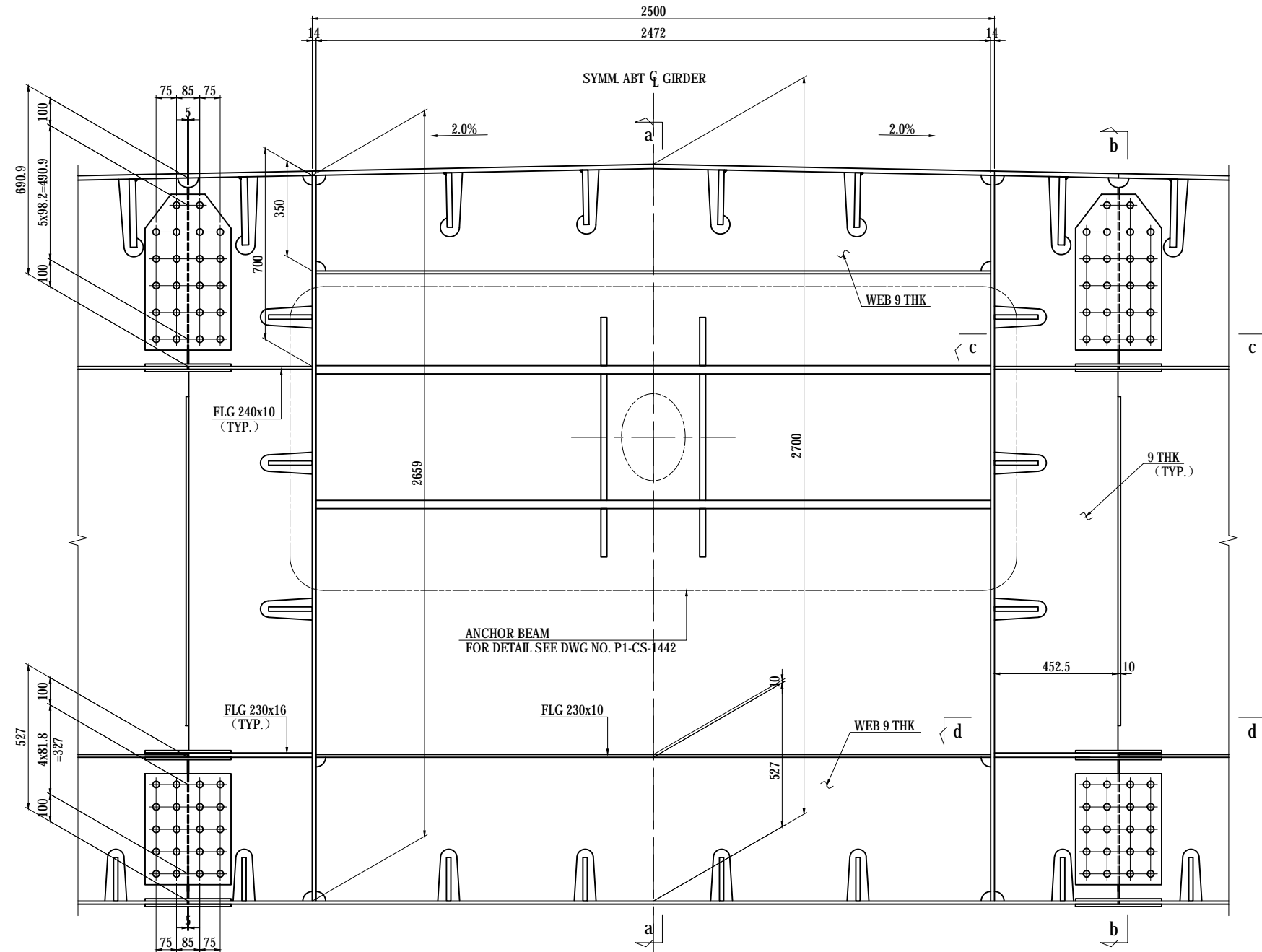
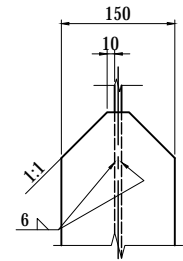
## CABLE NO.C8 (3)

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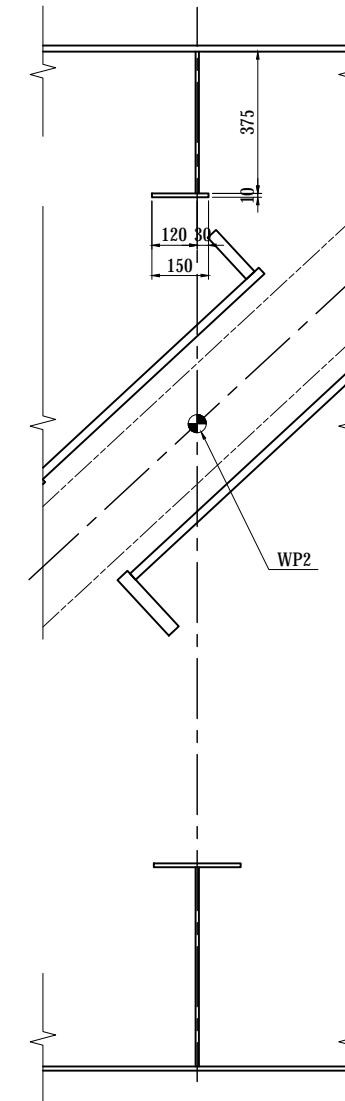
### CROSSFRAME R15 SECTION B-B

- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472

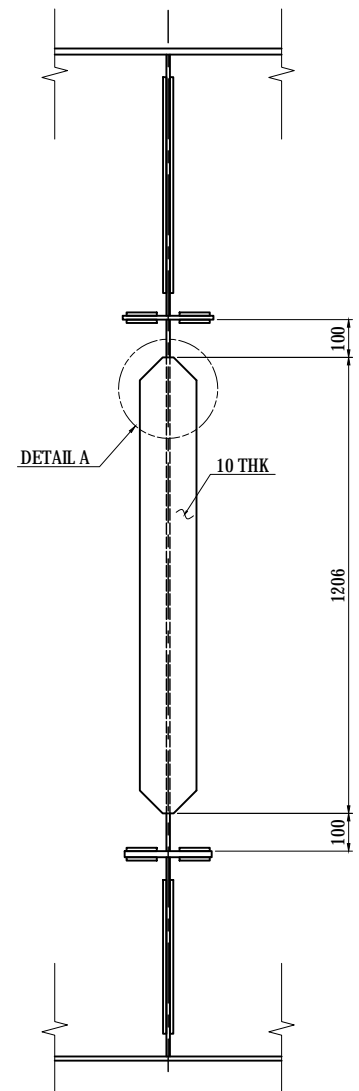
DETAIL A S=1:10



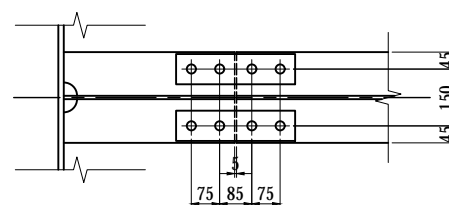
SECTION a-a



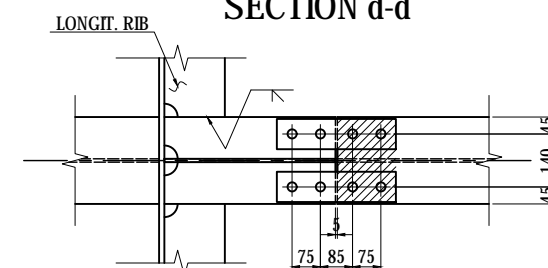
SECTION b-b



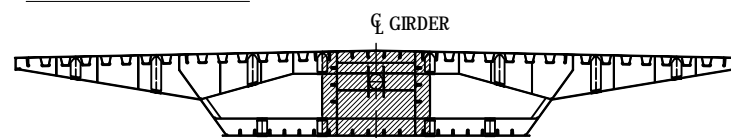
SECTION c-c



SECTION d-d



KEY DIAGRAM



#### NOTES:

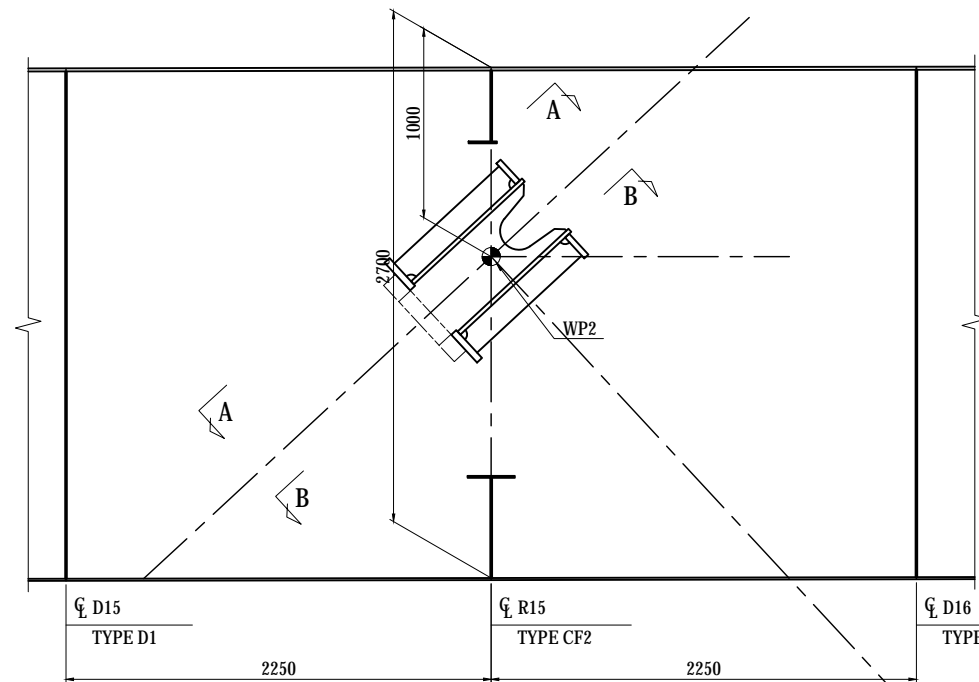
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1439.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C8 (3)</b> | 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-1441 |

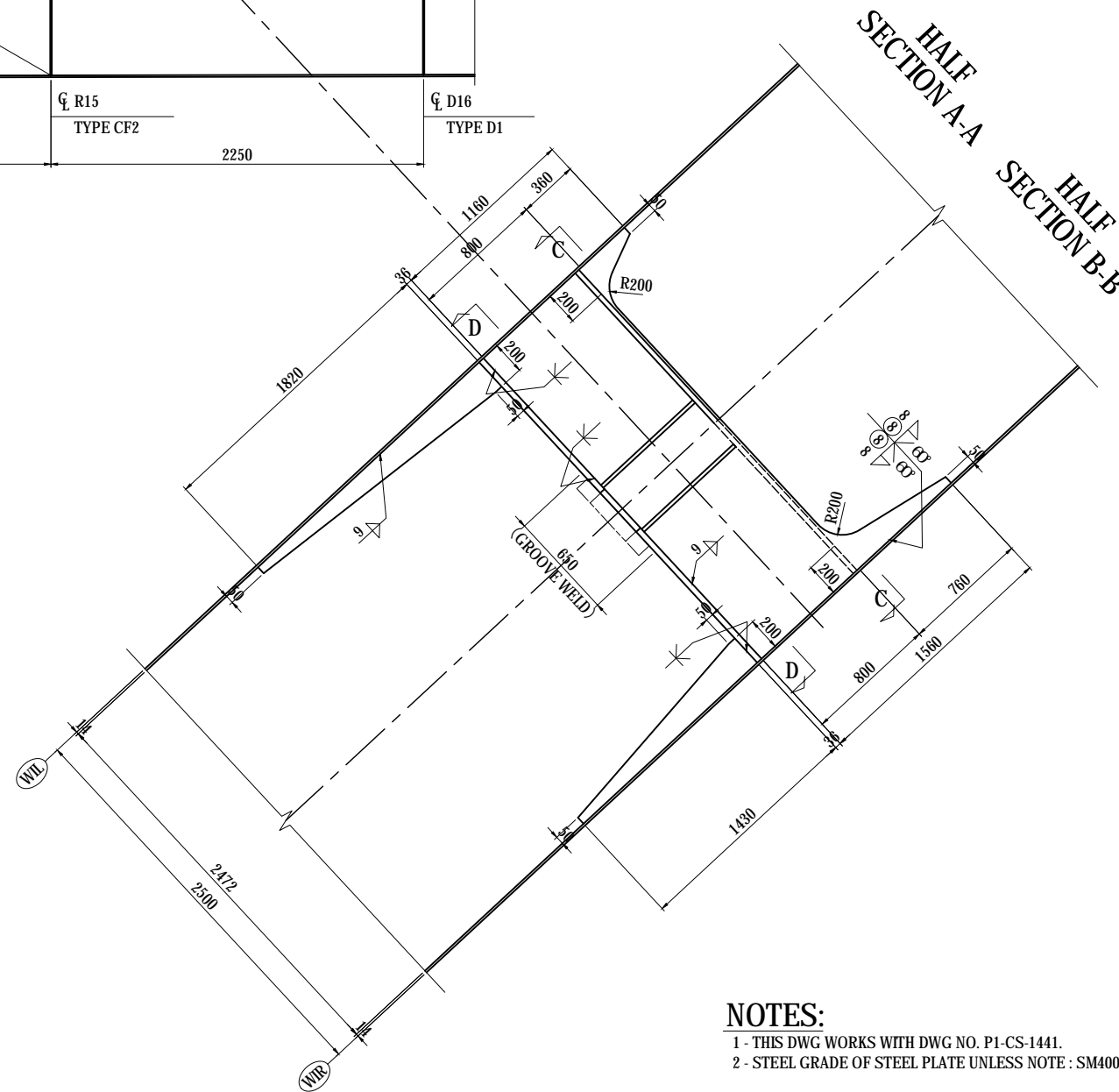
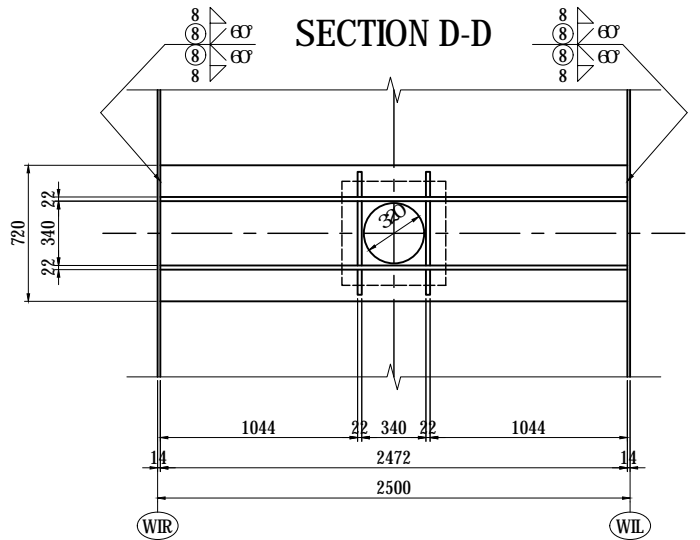
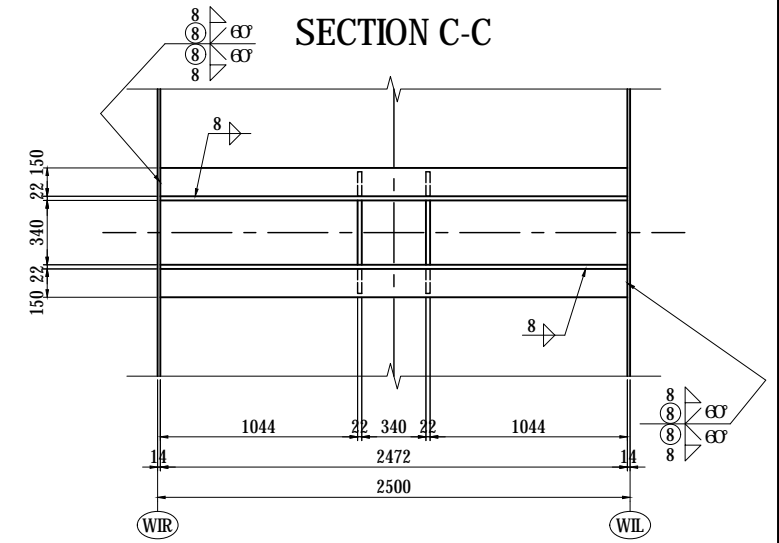
# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C8 (4)

S=1:40

**ANCHOR BEAM C8**



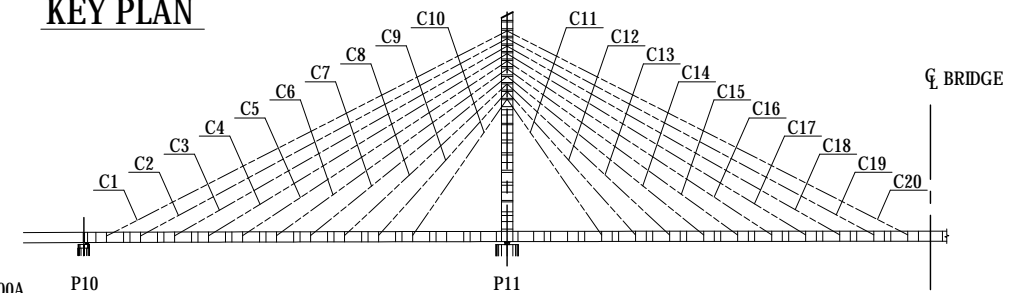
- 1-FLG PL 720 x 36 x 2472(SM490YB)
- 2-FLG PL 150 x 30 x 2472(SM490YB)
- 1-WEB PL 1560 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1430(SM490YB)
- 1-WEB PL 1160 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1820(SM490YB)
- 2-RIB PL 340 x 22 x 785(SM490YB)
- 4-RIB PL 130 x 22 x 755(SM490YB)
- 1- PL 550 x 85 x 550(SM400C-H)



**NOTES:**

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1441.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

**KEY PLAN**



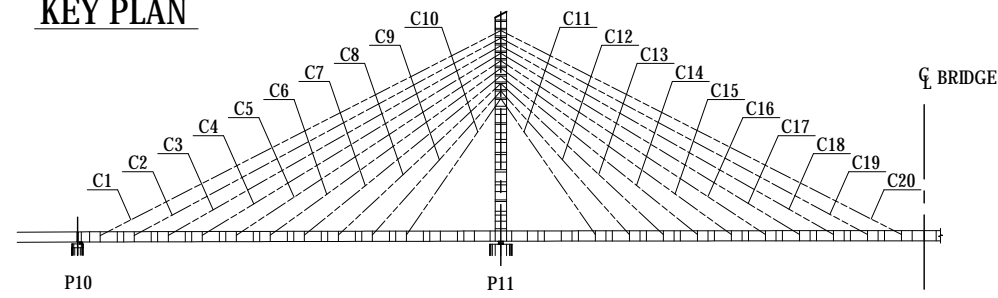
| <p>PROJECT NAME<br/>DETAILED DESIGN ON<br/>BAGO RIVER BRIDGE<br/>CONSTRUCTION PROJECT</p> | <p>FINANCED BY<br/> JAPAN INTERNATIONAL<br/>COOPERATION AGENCY</p> | <p>COUNTERPART<br/> REPUBLIC OF THE UNION OF MYANMAR<br/>MINISTRY OF CONSTRUCTION<br/>DEPARTMENT OF BRIDGE</p> | <p>JICA STUDY TEAM<br/> NIPPON KOEI CO., LTD.<br/>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br/>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br/>CHODAI CO., LTD.<br/>NIPPON ENGINEERING CONSULTANTS CO., LTD.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NAME</th> <th style="width: 10%;">SIGNATURE</th> <th style="width: 10%;">DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | <p>DRAWING TITLE<br/><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C8 (4)</b></p> | <p>PACKAGE<br/>1<br/>DWG No.<br/>P1-CS-1442</p> |
|---|--|--|---|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|--|---|
| NAME  | SIGNATURE  | DATE   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |   |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

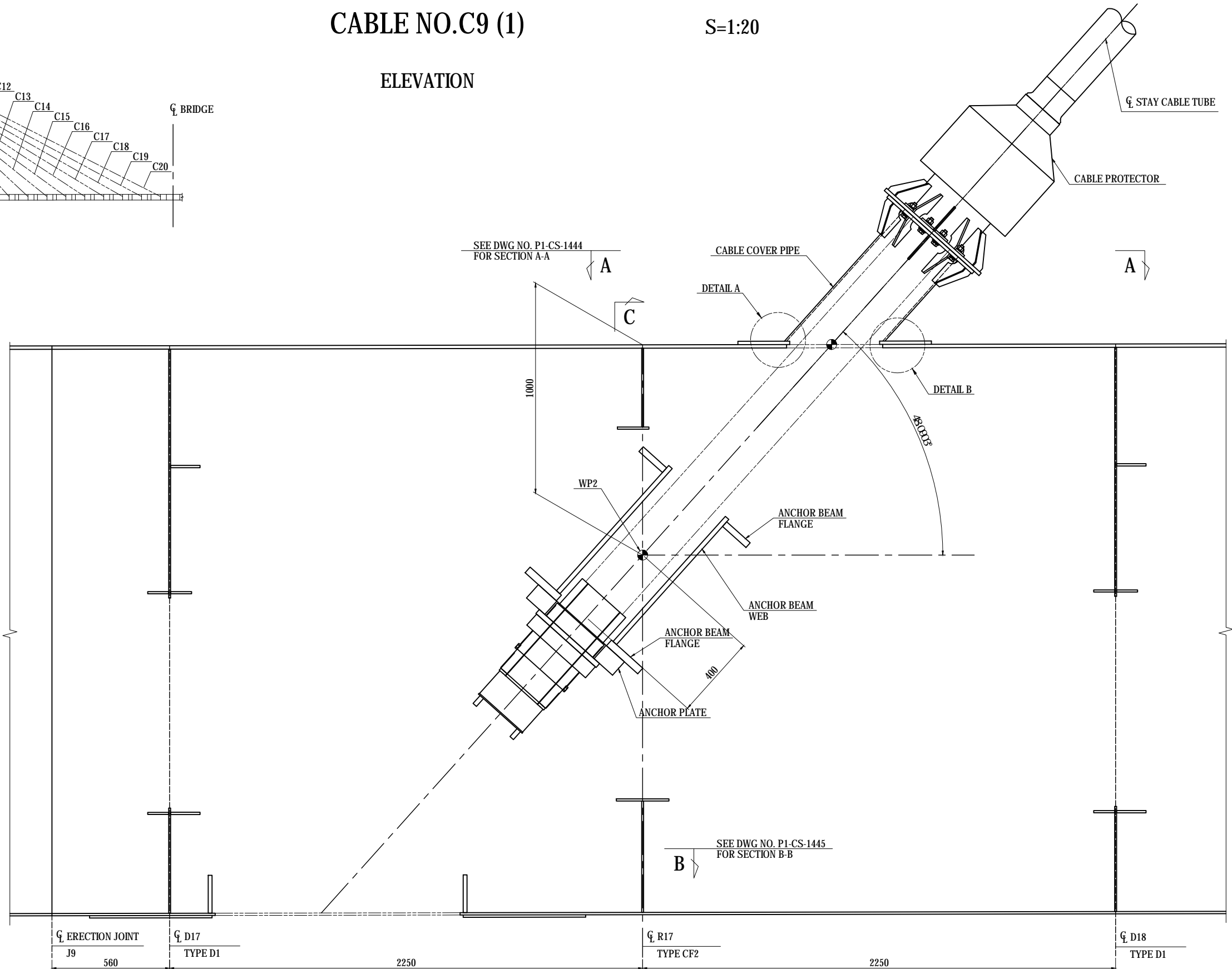
## CABLE NO.C9 (1)

S=1:20

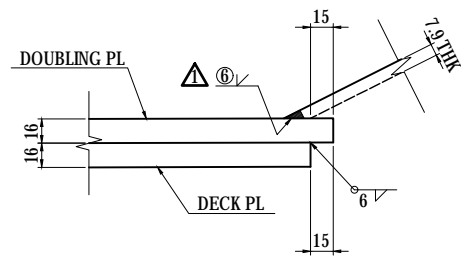
**KEY PLAN**



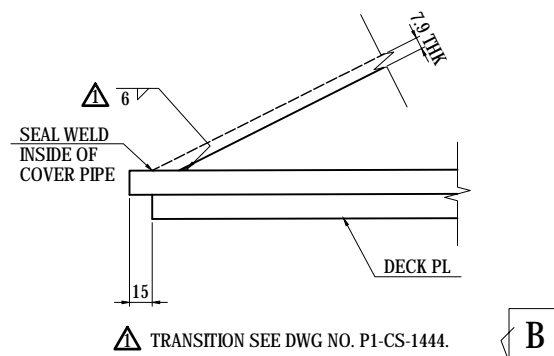
**ELEVATION**



**DETAIL A S=1:5**



**DETAIL B S=1:5**



CL ERECTION JOINT J9 560      CL D17 TYPE D1 2250      CL R17 TYPE CF2 2250      CL D18 TYPE D1

**C**  
 SEE DWG NO. P1-CS-1446  
 FOR CROSSFRAME SECTION C-C

| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY 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 | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C9 (1)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1443 |
|---|--|---|--|---|------|-----------|------|----------------------|--|--------------|------------------------|--|--------------|---------------------|--|--------------|--|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |                      |  |              |                        |  |              |                     |  |              |  |                                       |
| PREPARED BY T.TOMODA  |  | 27. Nov.2017  |  |   |      |           |      |                      |  |              |                        |  |              |                     |  |              |  |                                       |
| CHECKED BY T. HAYAKAWA  |  | 28. Nov.2017  |  |   |      |           |      |                      |  |              |                        |  |              |                     |  |              |  |                                       |
| APPROVED BY Y. SANO   |  | 29. Nov.2017  |  |   |      |           |      |                      |  |              |                        |  |              |                     |  |              |  |                                       |

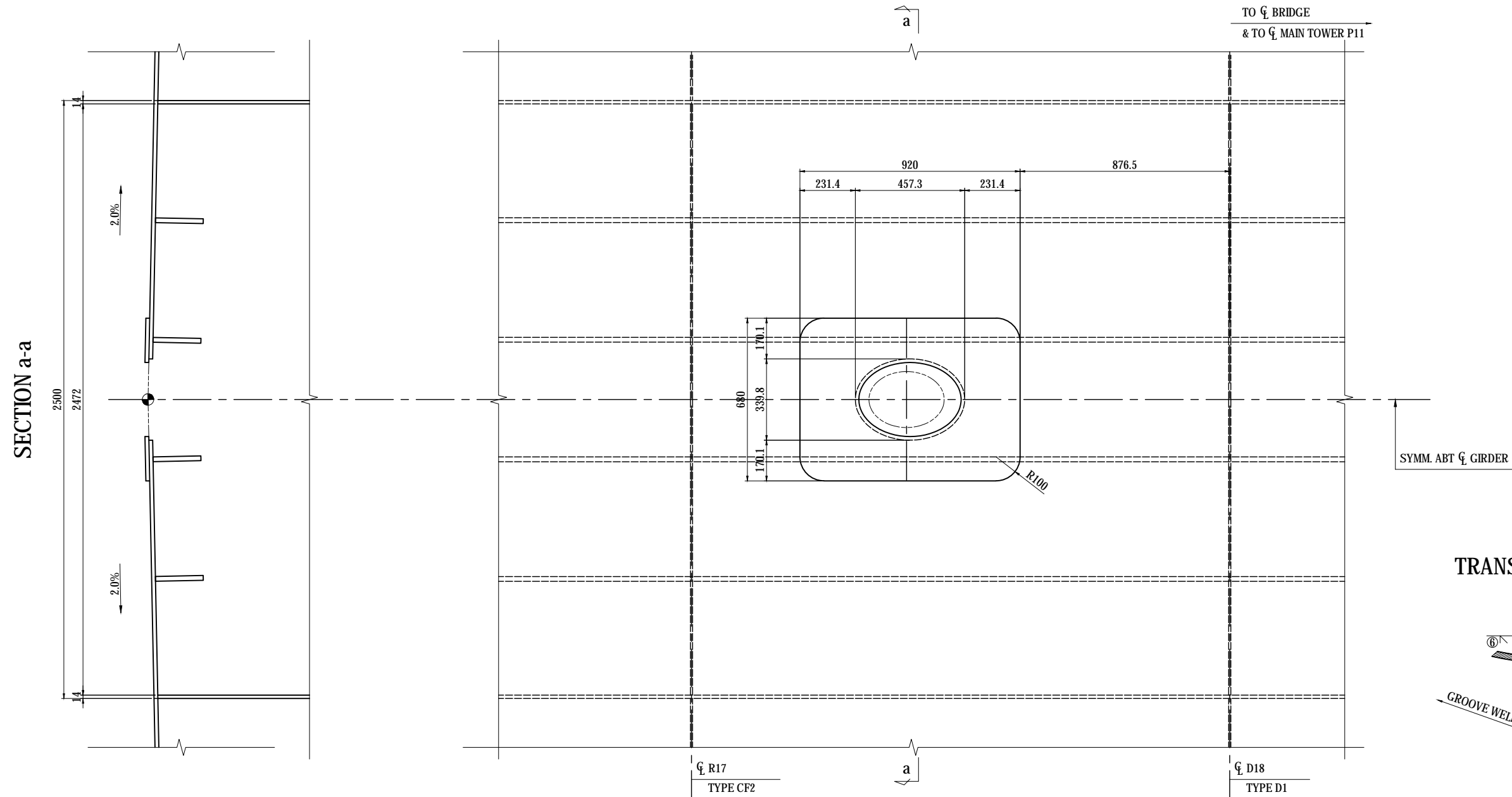


# MAIN GIRDER ANCHORAGE OF STAY CABLES

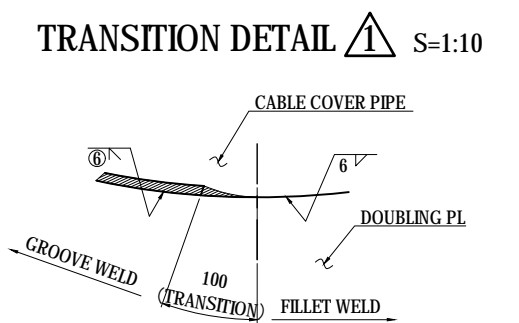
## CABLE NO.C9 (2)

S=1:20

### SECTION A-A



- 1-PL 680 x 16 x 920
- 1-PIPE 355.6 x 7.9 x 851 (STK400)
- 12-RIB PL 88 x 9 x 150
- 1-FLG PL 544 x 16 x 544



- NOTES:**
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1443.
  - 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

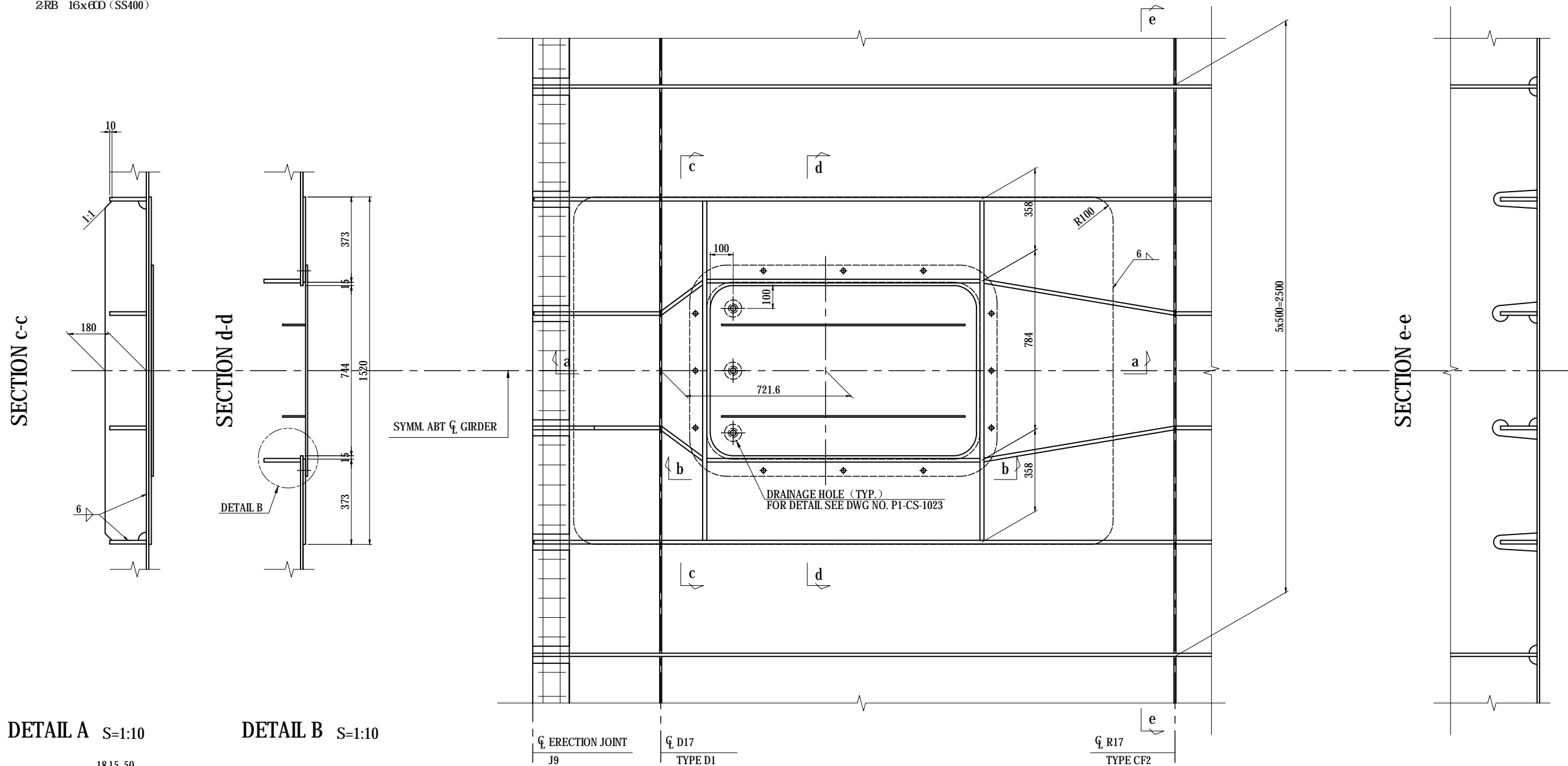
| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><h3 style="text-align: center;">MAIN GIRDER ANCHORAGE OF STAY CABLES</h3> <h4 style="text-align: center;">CABLE NO.C9 (2)</h4> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1444 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C9 (3)

S=1:20

- 2-RIB PL 180 x 18 x 1484 (SM490YB)
- 1-PL 1520 x 11 x 2360 (SM490YA)
- 1-PL 924 x 9 x 1345
- 2-FB 100 x 6 x 1065 (SS400)
- 3-PL 75 x 22 x 75
- 12-BN M16 x 50 (SUS304)
- 2RB 16x600 (SS400)

## SECTION B-B

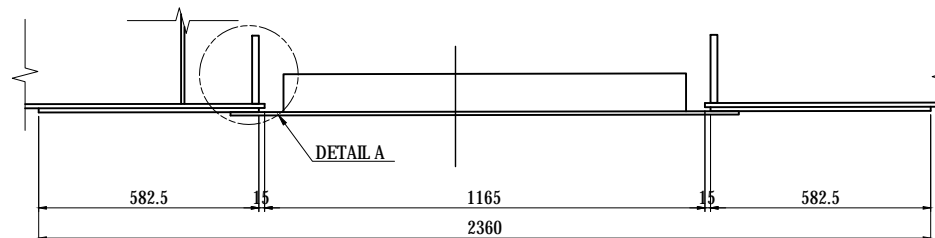
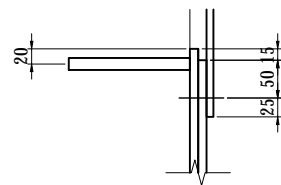
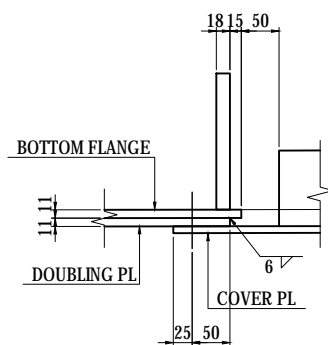


DETAIL A S=1:10

DETAIL B S=1:10

SECTION a-a

DEV. SECTION b-b



- NOTES:**
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1443.
  - 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C9 (3) | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1445 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|---|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

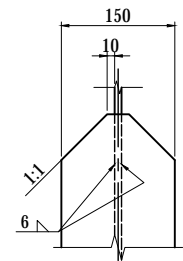
## CABLE NO.C9 (4)

S=1:20

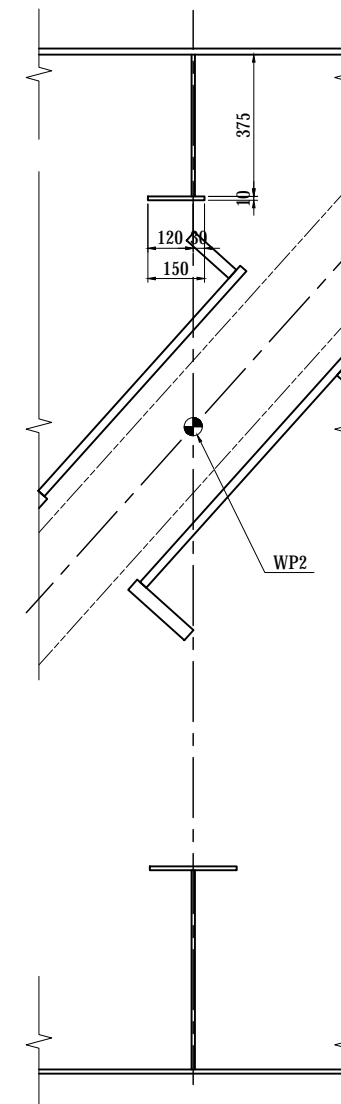
### CROSSFRAME R17 SECTION C-C

- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472

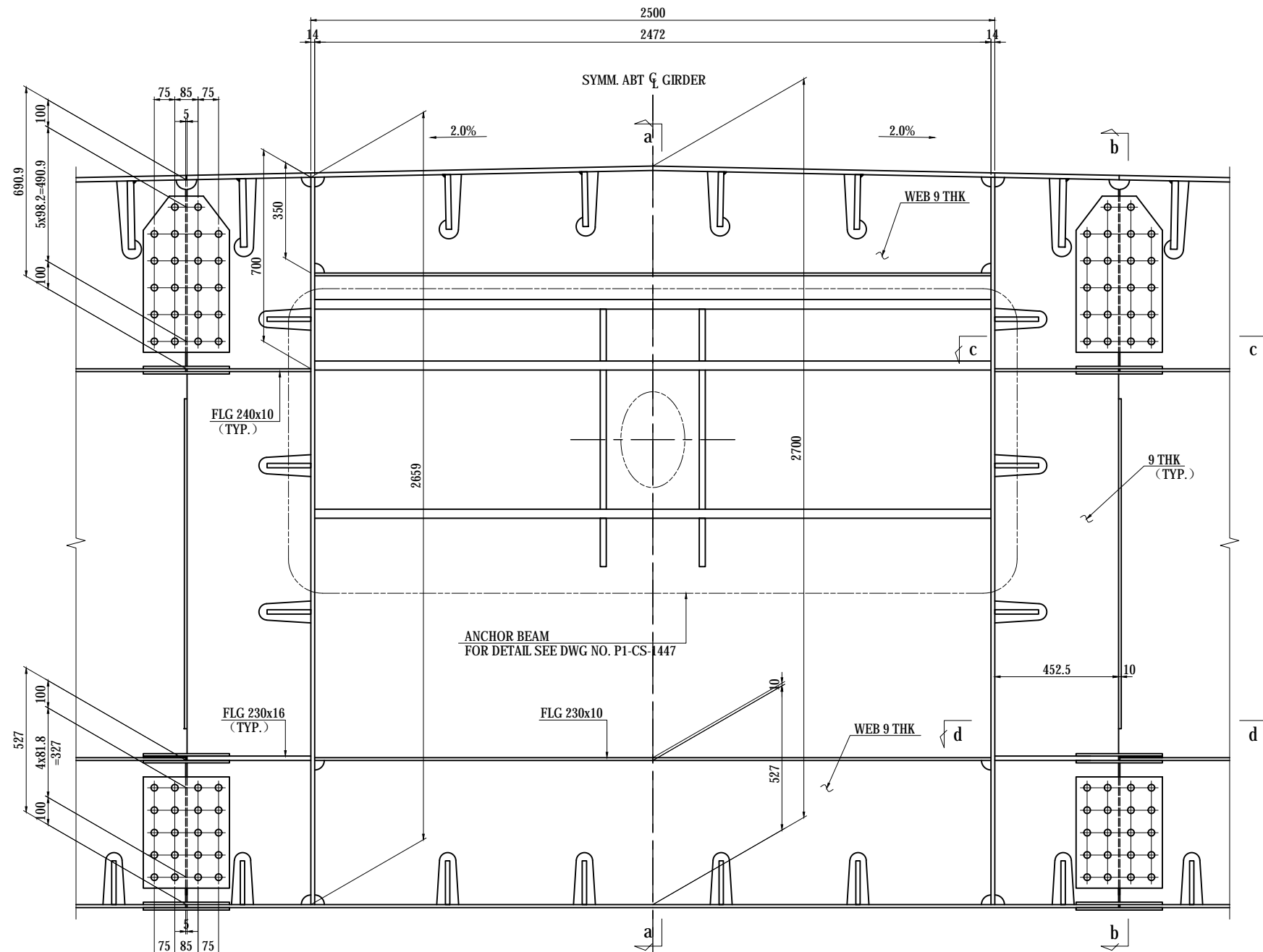
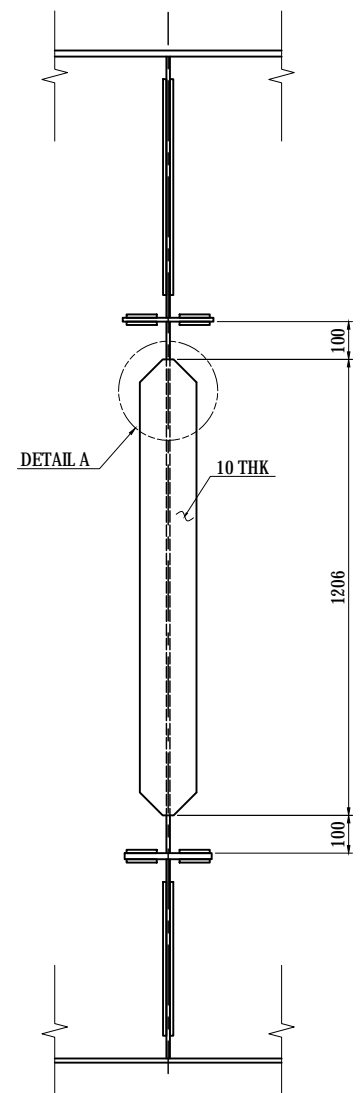
DETAIL A S=1:10



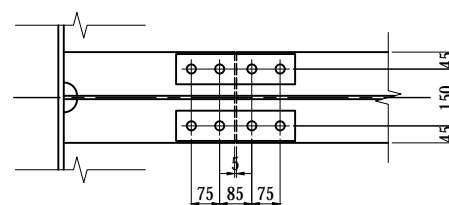
SECTION a-a



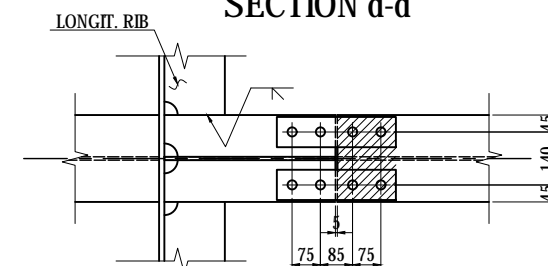
SECTION b-b



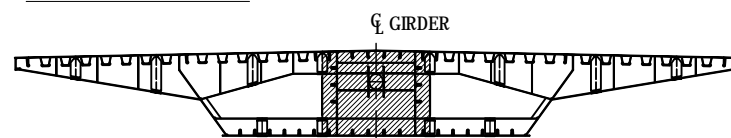
SECTION c-c



SECTION d-d



KEY DIAGRAM



NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1443.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

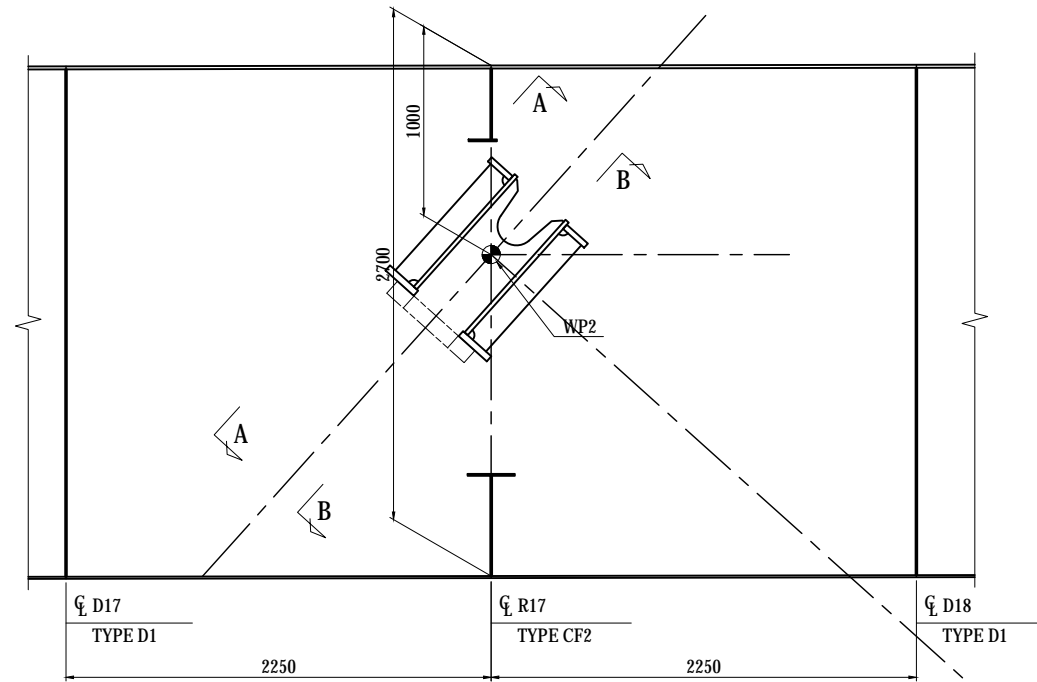
|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C9 (4) | 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-1446 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

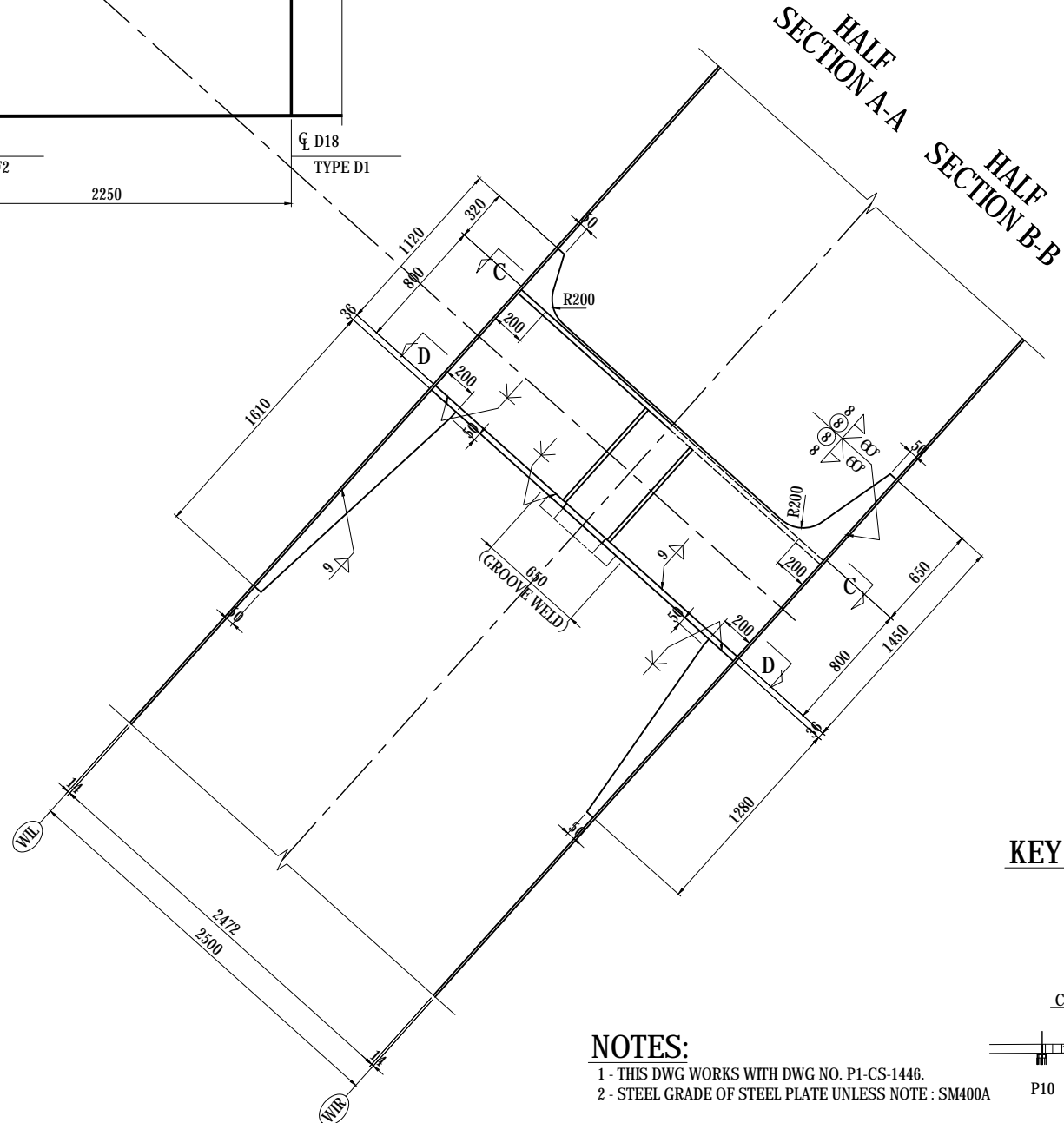
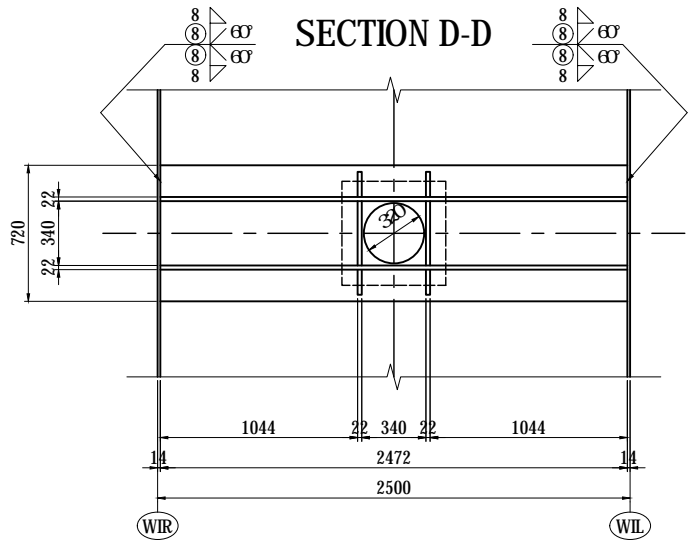
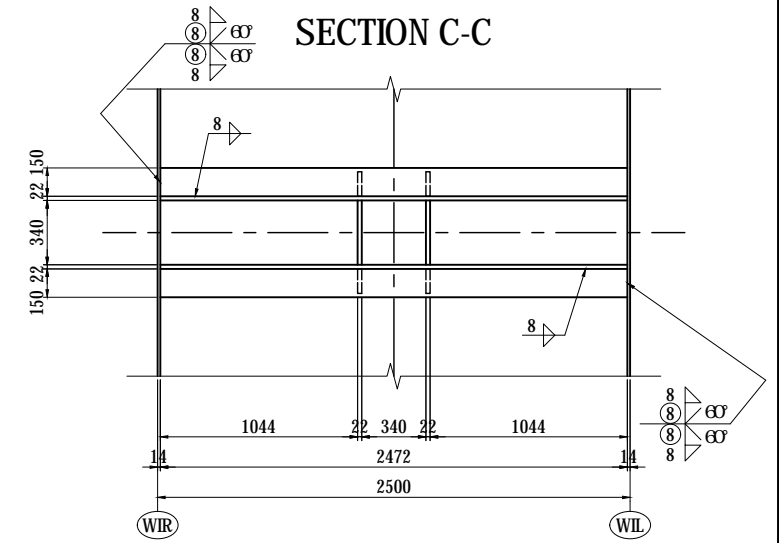
## CABLE NO.C9 (5)

S=1:40

**ANCHOR BEAM C9**



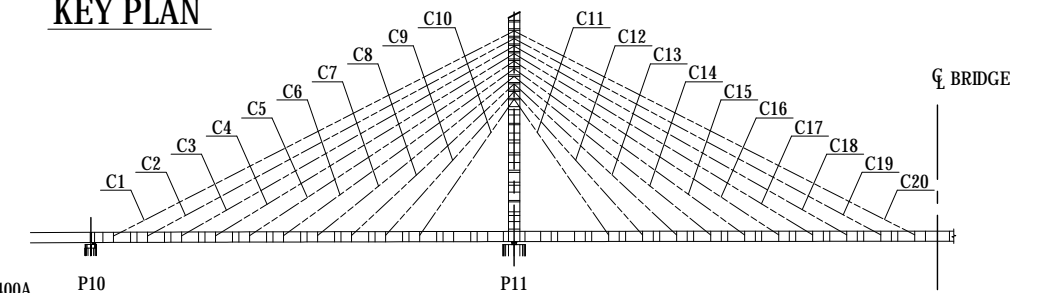
- 1-FLG PL 720 x 36 x 2472(SM490YB)
- 2-FLG PL 150 x 30 x 2472(SM490YB)
- 1-WEB PL 1450 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1280(SM490YB)
- 1-WEB PL 1120 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1610(SM490YB)
- 2-RIB PL 340 x 22 x 785(SM490YB)
- 4-RIB PL 130 x 22 x 755(SM490YB)
- 1- PL 550 x 85 x 550(SM400C-H)



**NOTES:**

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1446.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

**KEY PLAN**



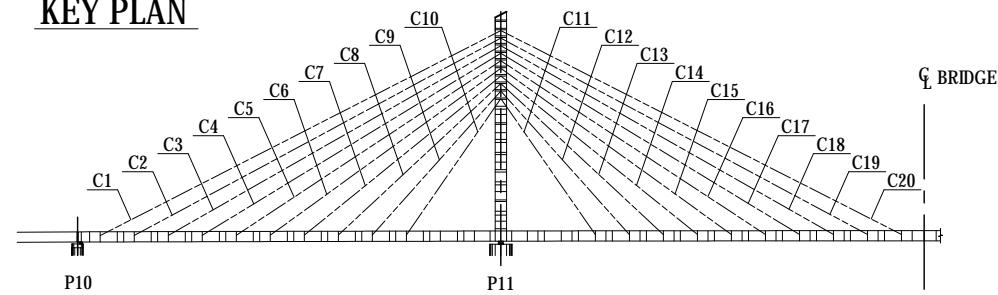
| <p>PROJECT NAME<br/>DETAILED DESIGN ON<br/>BAGO RIVER BRIDGE<br/>CONSTRUCTION PROJECT</p> | <p>FINANCED BY<br/> JAPAN INTERNATIONAL<br/>COOPERATION AGENCY</p> | <p>COUNTERPART<br/> REPUBLIC OF THE UNION OF MYANMAR<br/>MINISTRY OF CONSTRUCTION<br/>DEPARTMENT OF BRIDGE</p> | <p>JICA STUDY TEAM<br/> NIPPON KOEI CO., LTD.<br/> ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br/> METROPOLITAN EXPRESSWAY COMPANY LIMITED<br/> CHODAI CO., LTD.<br/> NIPPON ENGINEERING CONSULTANTS CO., LTD.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | <p style="text-align: center;">DRAWING TITLE</p> <p style="text-align: center;"><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C9 (5)</b></p> | <p>PACKAGE</p> <p style="text-align: center;">1</p> <p>DWG No.</p> <p style="text-align: center;">P1-CS-1447</p> |
|---|--|--|---|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|---|--|
| NAME  | SIGNATURE  | DATE   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |  |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |  |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |  |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |  |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

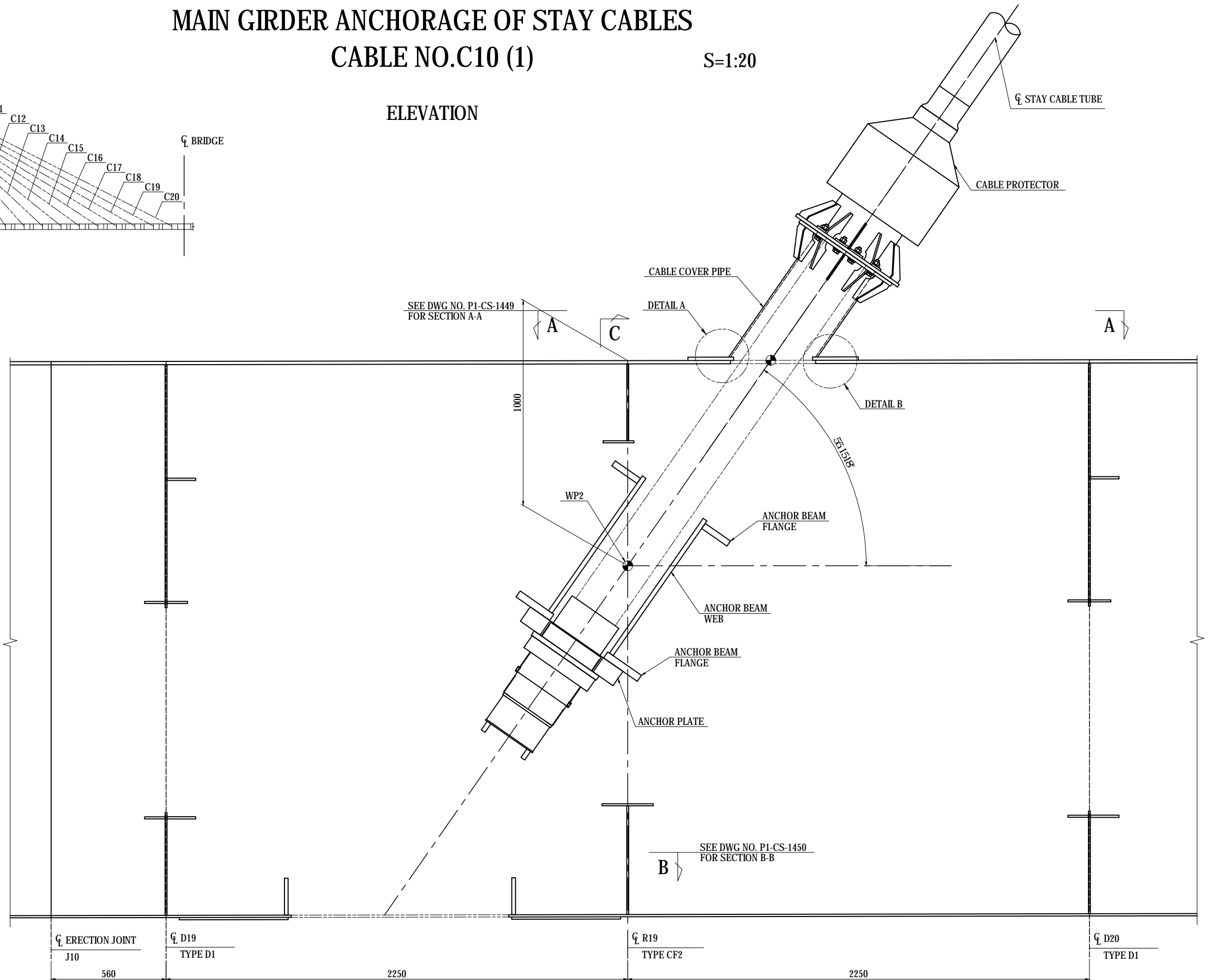
## CABLE NO.C10 (1)

S=1:20

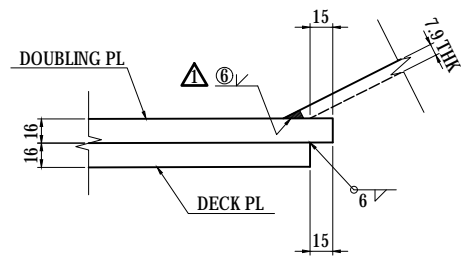
**KEY PLAN**



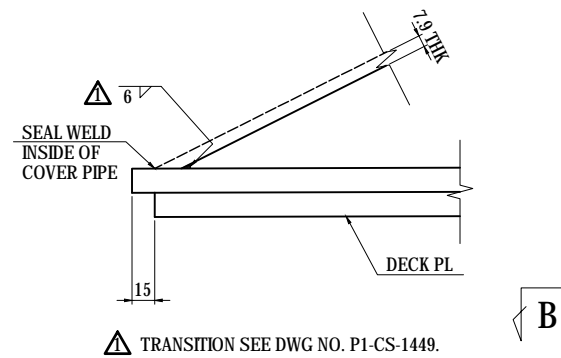
**ELEVATION**



**DETAIL A S=1:5**



**DETAIL B S=1:5**



|                          |                   |      |                    |                   |
|--------------------------|-------------------|------|--------------------|-------------------|
| CL ERECTION JOINT<br>J10 | CL D19<br>TYPE D1 |      | CL R19<br>TYPE CF2 | CL D20<br>TYPE D1 |
| 560                      |                   | 2250 |                    | 2250              |

SEE DWG NO. P1-CS-1451  
FOR CROSSFRAME SECTION C-C

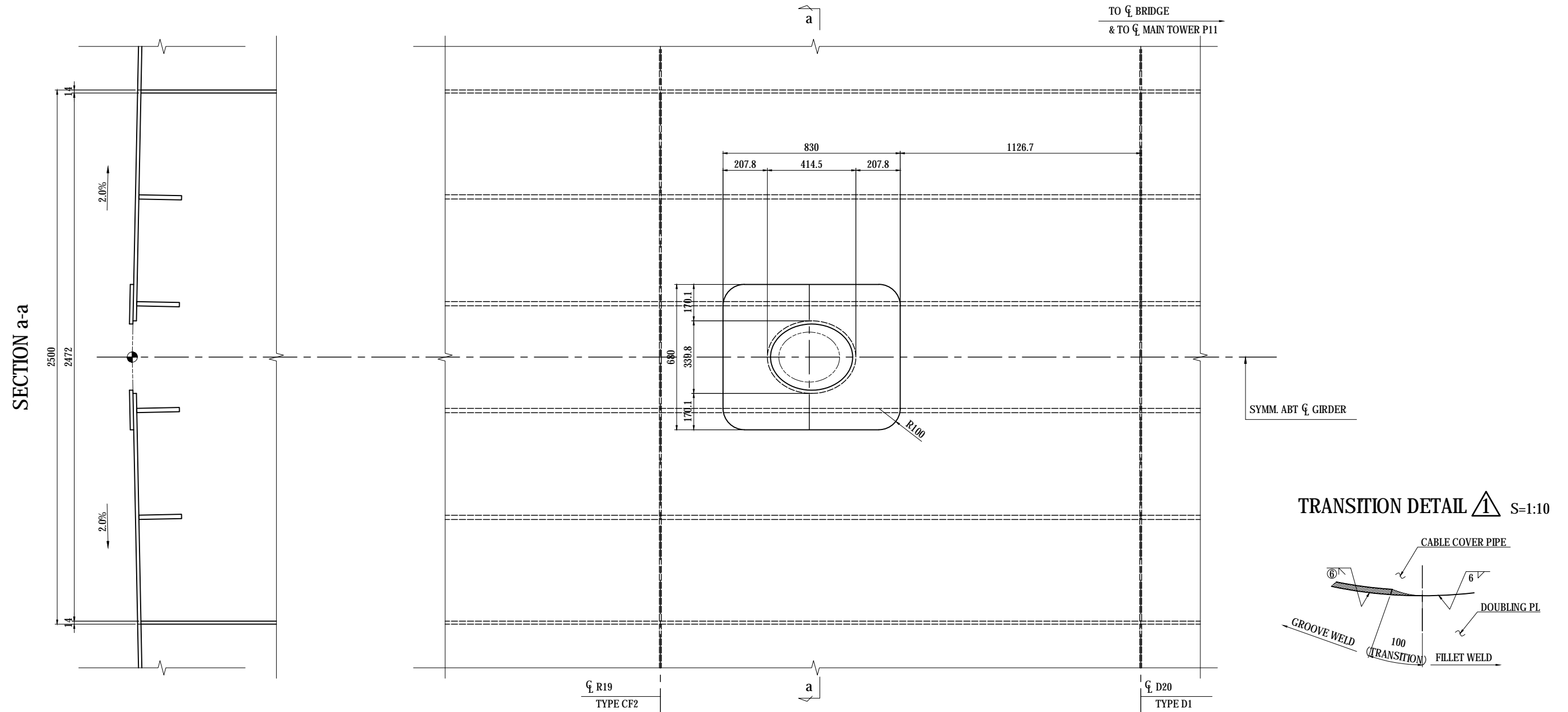
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>         CABLE NO.C10 (1)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1448 |
|---|--|---|--|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|--|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C10 (2)

S=1:20

### SECTION A-A



- 1-PL 680 x 16 x 830
- 1-PIPE 355.6 x 7.9 x 751 (STK400)
- 12-RIB PL 88 x 9 x 150
- 1-FLG PL 544 x 16 x 544

#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1448.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>NIPPON ENGINEERING CONSULTANTS CO.,LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C10 (2)</b> | 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-1449 |

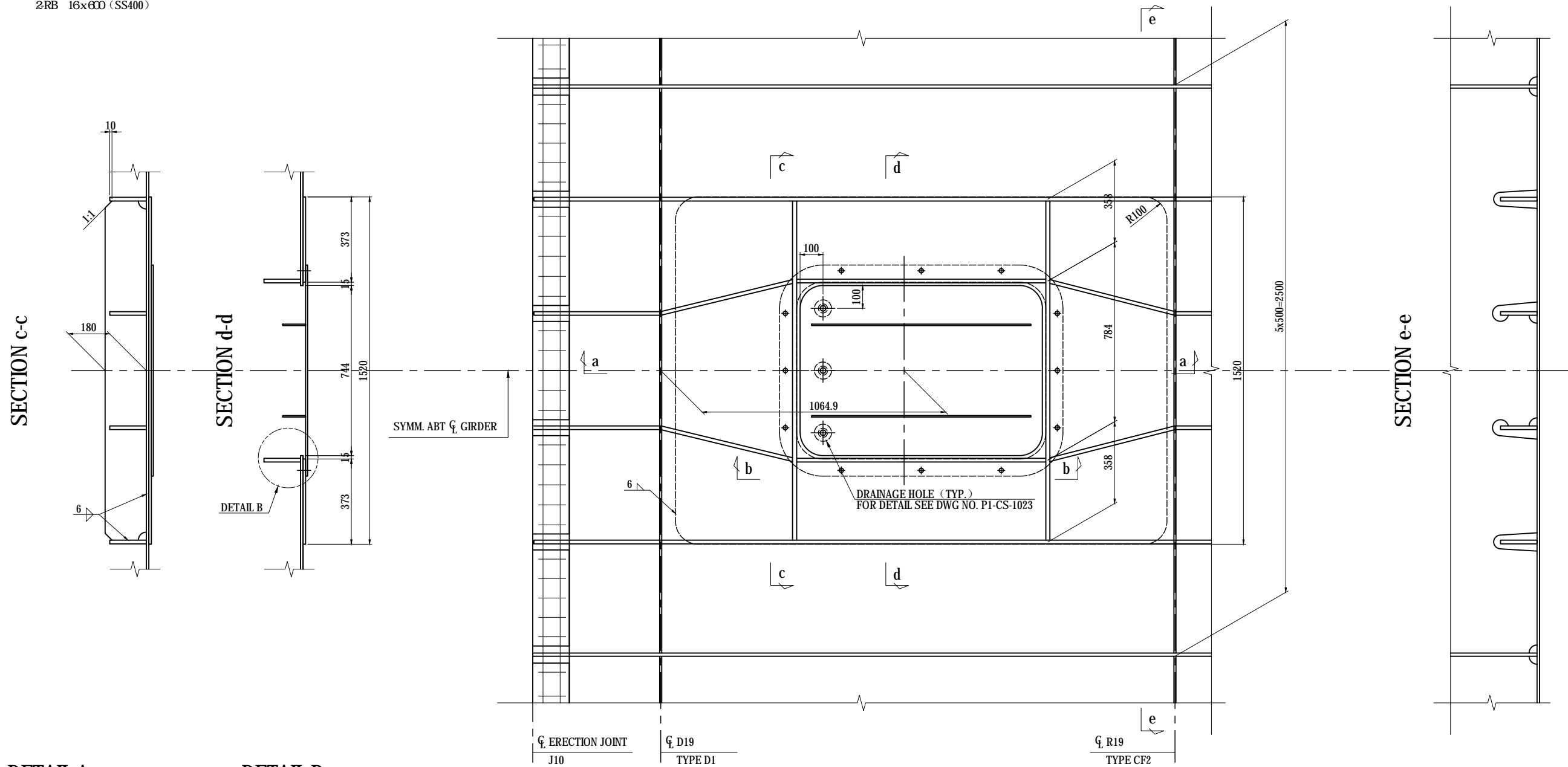
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C10 (3)

S=1:20

- 2-RIB PL 180 x 18 x 1484 (SM490YB)
- 1-PL 1520 x 11 x 2150 (SM490YA)
- 1-PL 924 x 9 x 1240
- 2-FB 100 x 6 x 960 (SS400)
- 3-PL 75 x 22 x 75
- 12-BN M16 x 50 (SUS304)
- 2RB 16x600 (SS400)

### SECTION B-B

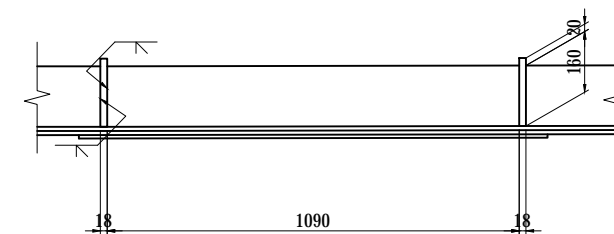
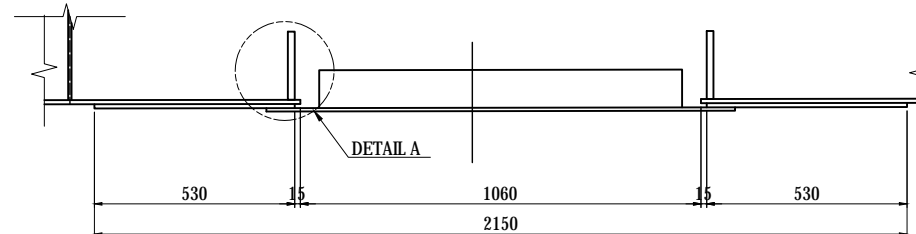
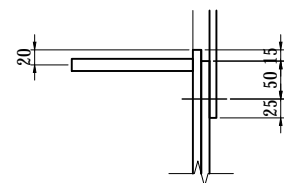
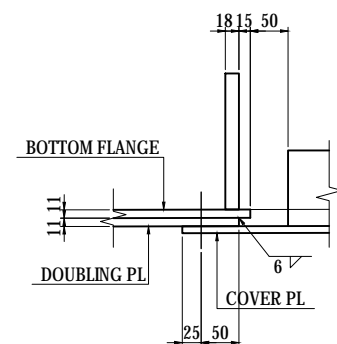


DETAIL A S=1:10

DETAIL B S=1:10

SECTION a-a

DEV. SECTION b-b



**NOTES:**

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1448.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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<br><h3 style="text-align: center;">MAIN GIRDER ANCHORAGE OF STAY CABLES</h3> <h4 style="text-align: center;">CABLE NO.C10 (3)</h4> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1450 |
|---|--|---|--|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|---------------------------------------|
|   | NAME   | SIGNATURE   | DATE   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |
| PREPARED BY   | T.TOMODA   |   | 27. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |
| CHECKED BY  | T. HAYAKAWA  |   | 28. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |
| APPROVED BY   | Y. SANO  |   | 29. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

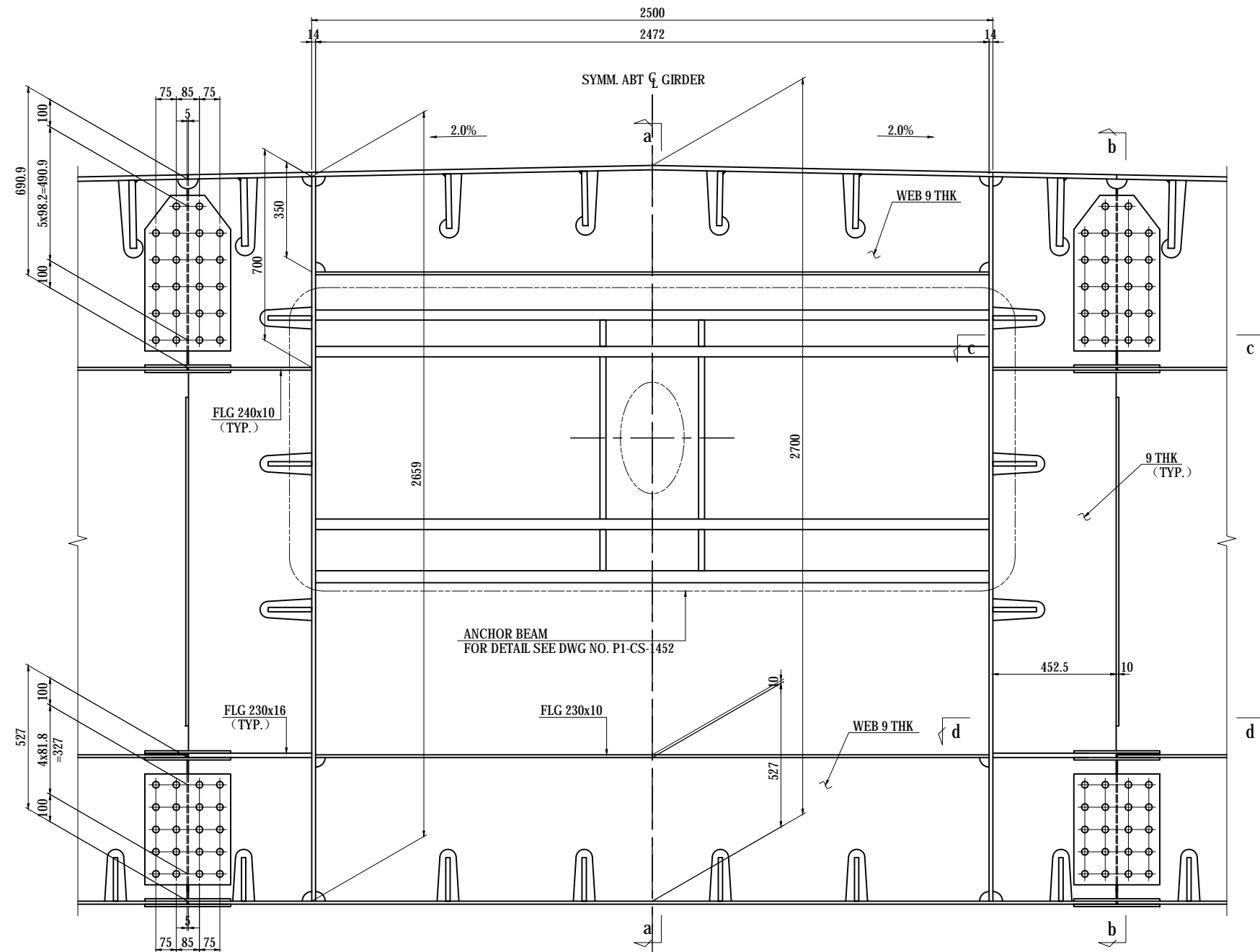
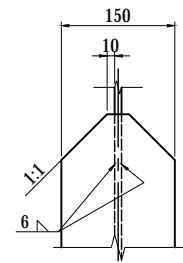
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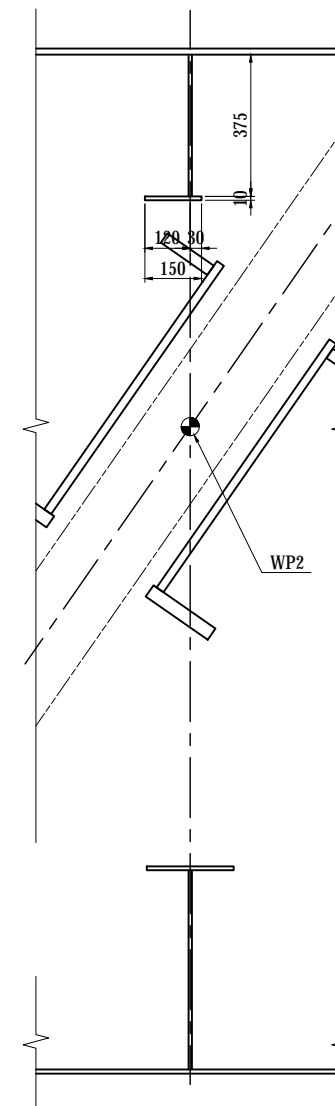
### CROSSFRAME R19 SECTION C-C

- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472

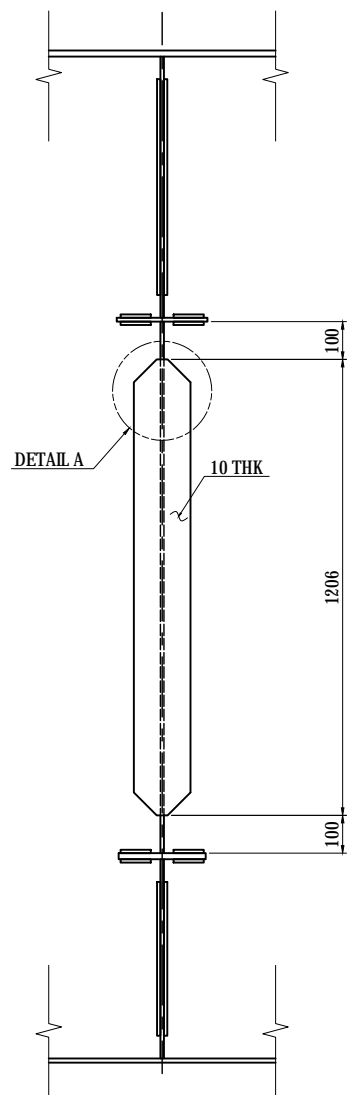
DETAIL A S=1:10



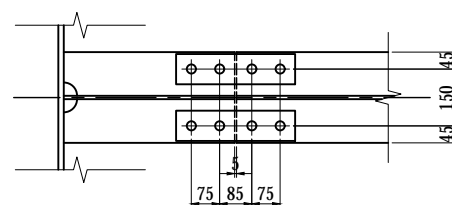
SECTION a-a



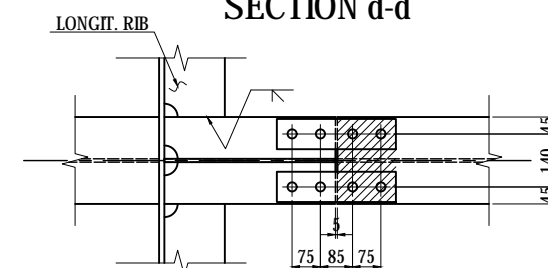
SECTION b-b



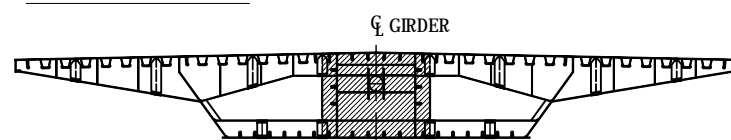
SECTION c-c



SECTION d-d



KEY DIAGRAM



#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1448.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>NIPPON ENGINEERING CONSULTANTS CO.,LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C10 (4)</b> | 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-1451 |

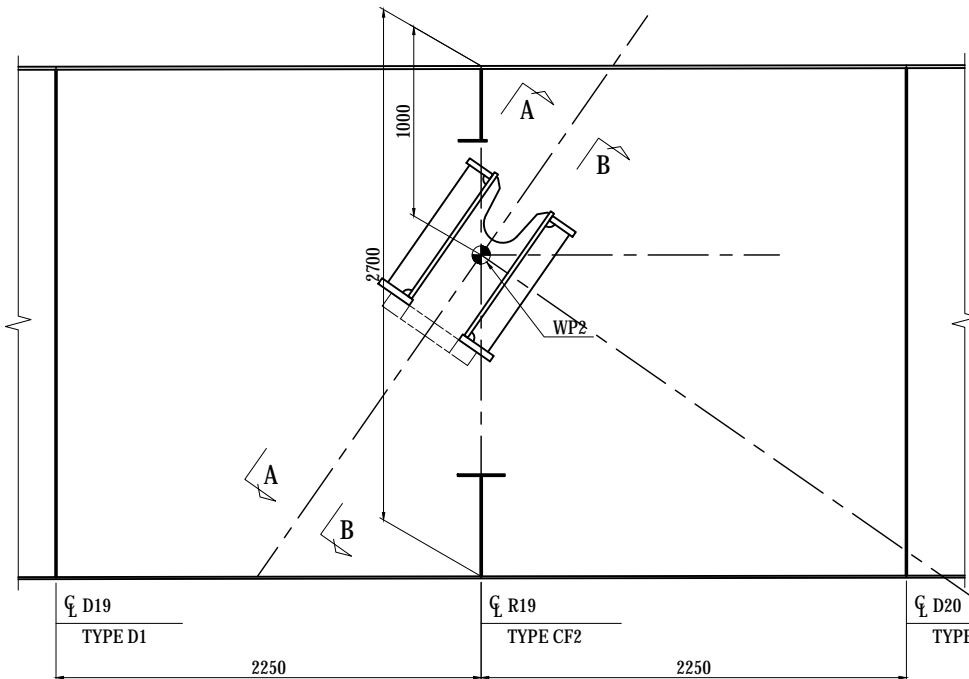


# MAIN GIRDER ANCHORAGE OF STAY CABLES

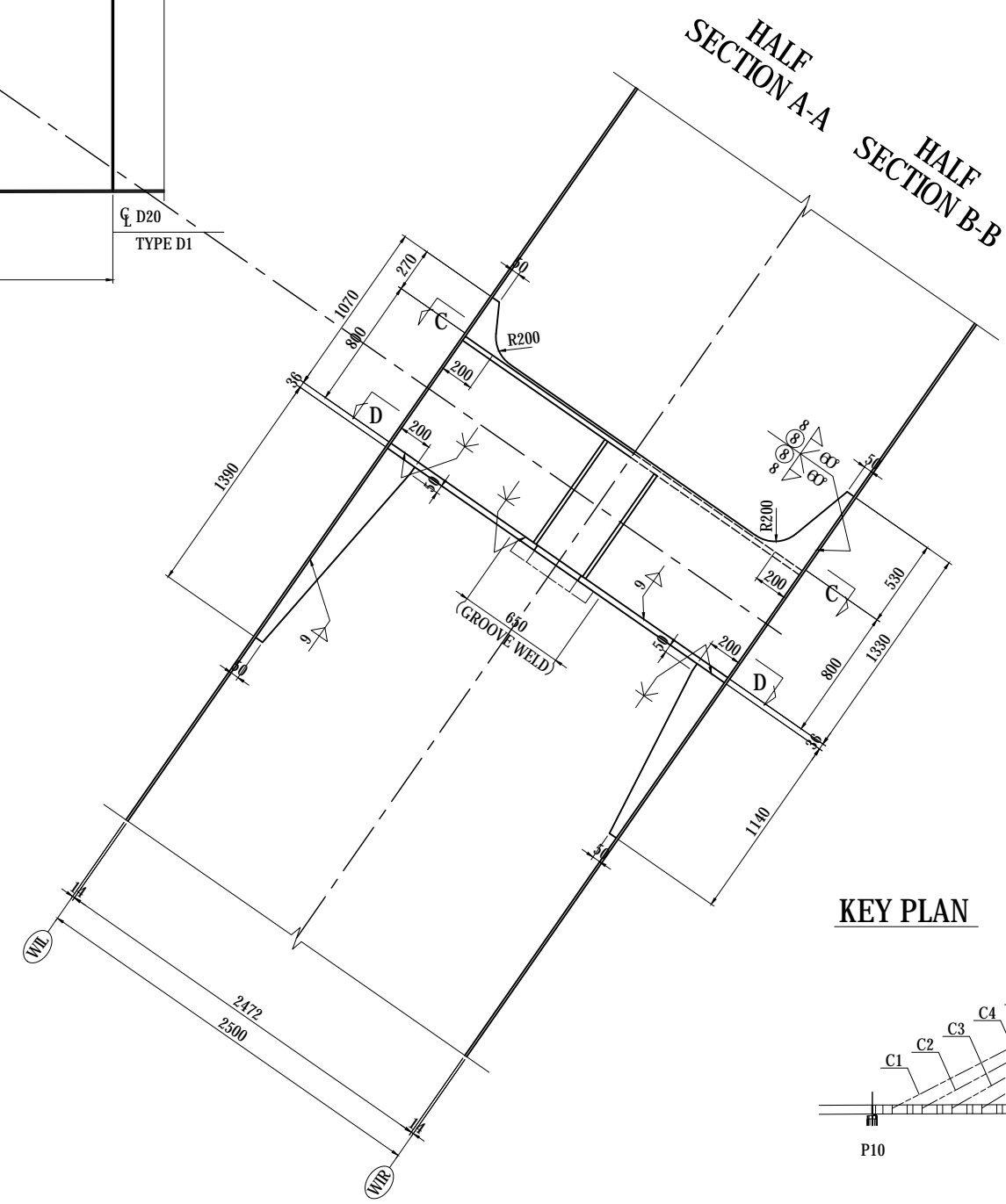
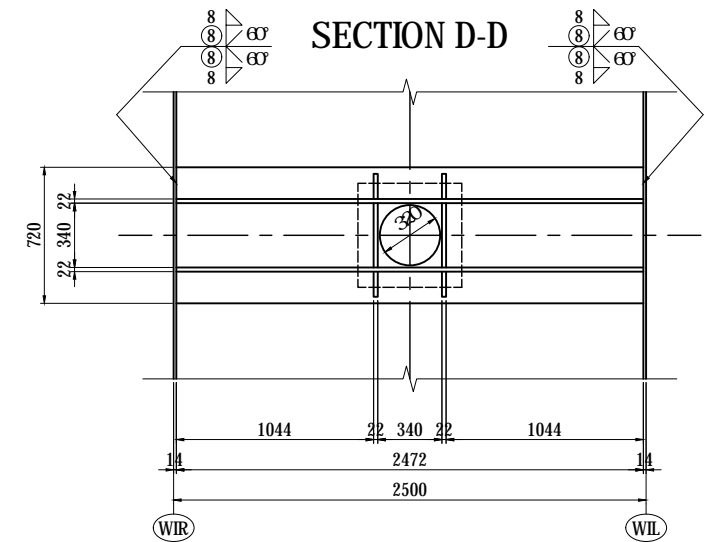
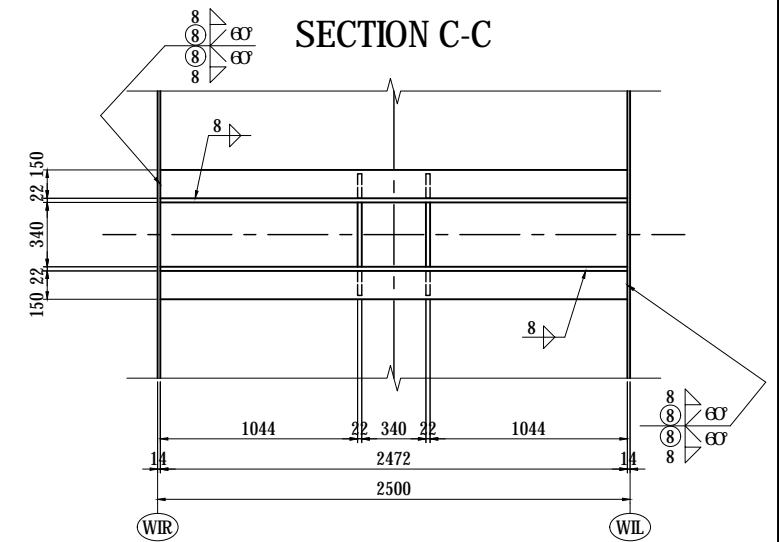
CABLE NO.C10 (5)

S=1:40

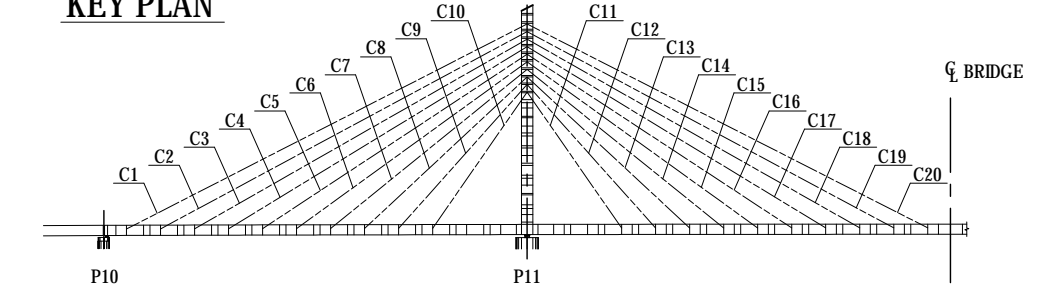
ANCHOR BEAM C10



- 1-FLG PL 720 x 36 x 2472(SM490YB)
- 2-FLG PL 150 x 30 x 2472(SM490YB)
- 1-WEB PL 1330 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1140(SM490YB)
- 1-WEB PL 1070 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1390(SM490YB)
- 2-RIB PL 340 x 22 x 785(SM490YB)
- 4-RIB PL 130 x 22 x 755(SM490YB)
- 1- PL 550 x 85 x 550(SM400C-H)



KEY PLAN



**NOTES:**

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1451.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

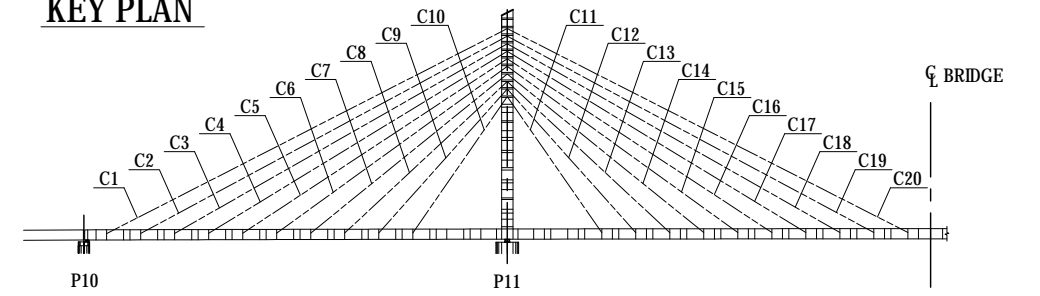
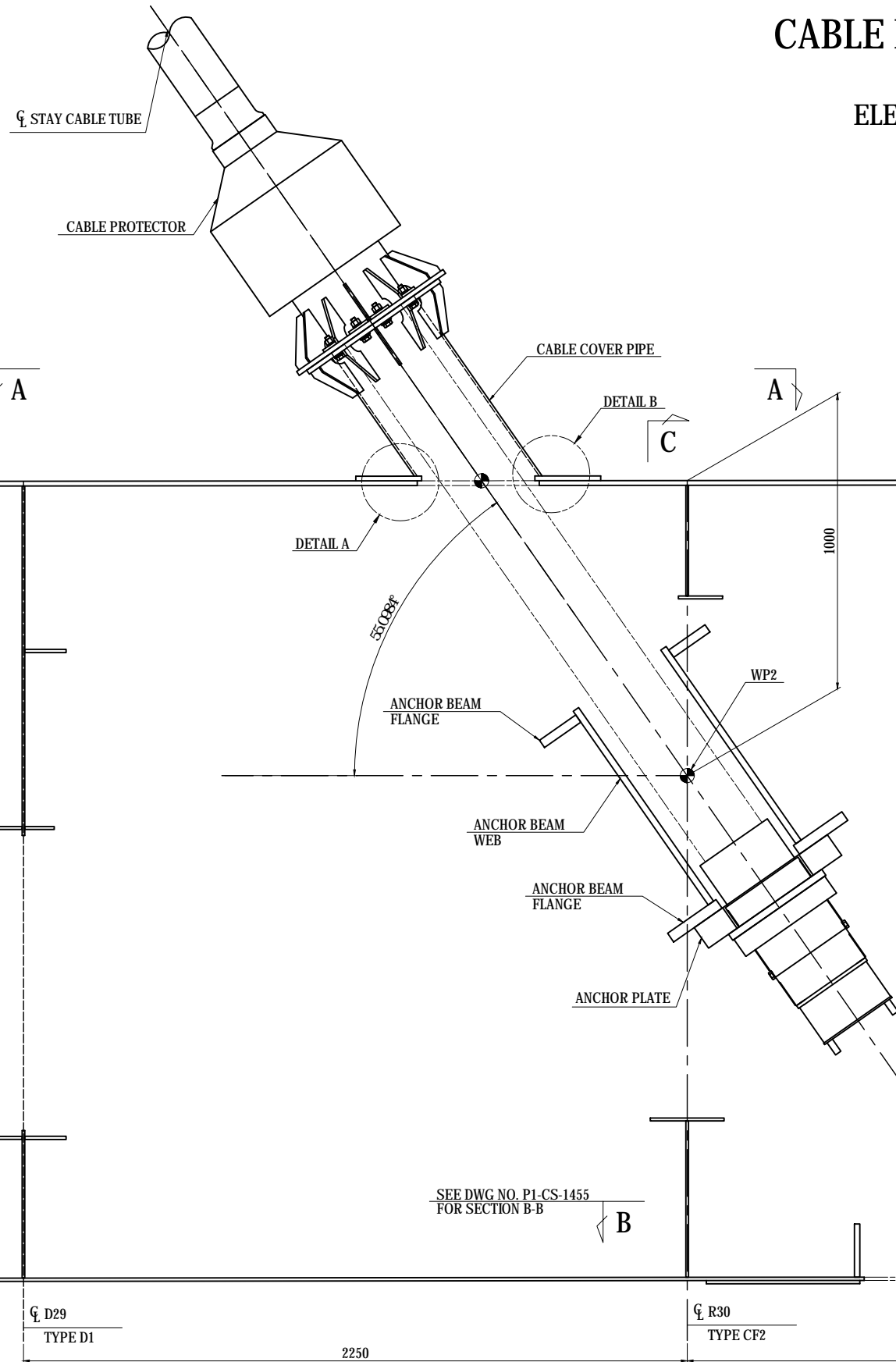
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| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C10 (5) | 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-1452 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C11 (1)

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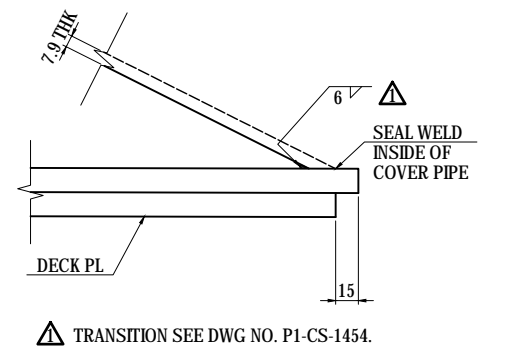
ELEVATION

KEY PLAN

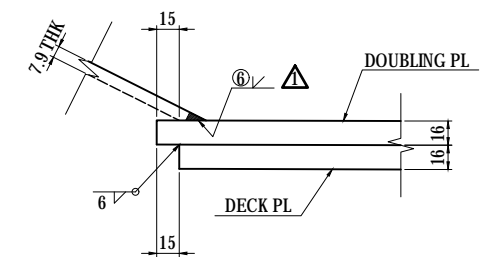


SEE DWG NO. P1-CS-1454  
FOR SECTION A-A

DETAIL A S=1:5



DETAIL B S=1:5



SEE DWG NO. P1-CS-1455  
FOR SECTION B-B

C  
SEE DWG NO. P1-CS-1456  
FOR CROSSFRAME SECTION C-C

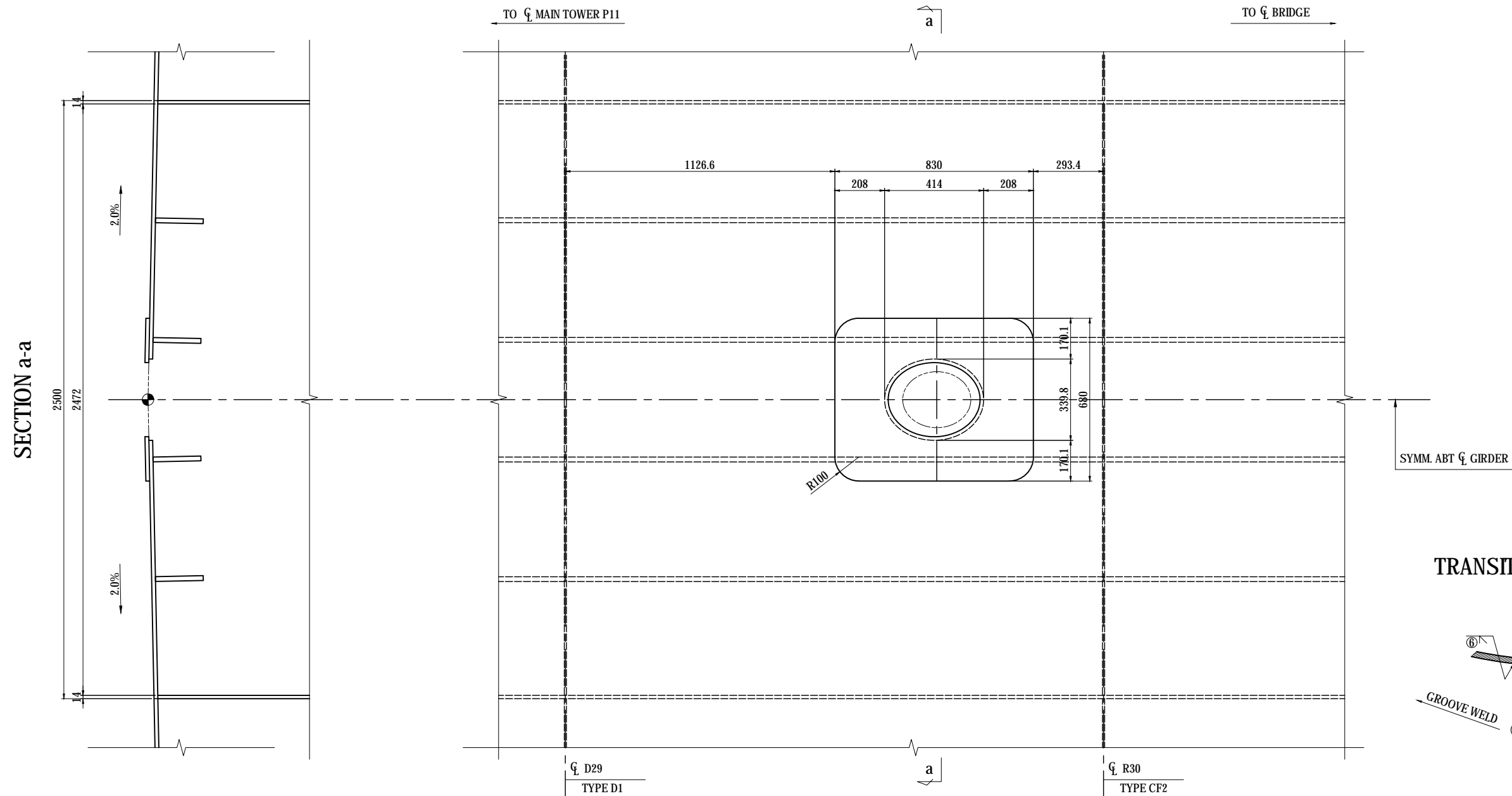
|   |  |   |  |   |                       |  |   |                                       |
|---|--|---|--|---|-----------------------|--|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>PREPARED BY T.TOMODA<br>CHECKED BY T. HAYAKAWA<br>APPROVED BY Y. SANO | SIGNATURE<br><br><br> | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C11 (1) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1453 |
|---|--|---|--|---|-----------------------|--|---|---------------------------------------|

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C11 (2)

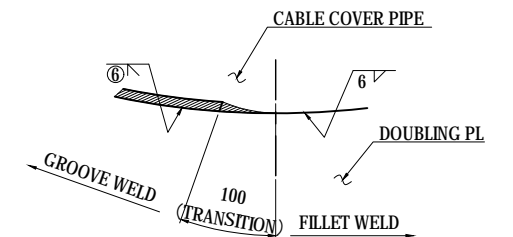
S=1:20

### SECTION A-A



- 1-PL 680 x 16 x 830
- 1-PIPE 355.6 x 7.9 x 751 (STK400)
- 12-RIB PL 88 x 9 x 150
- 1-FLG PL 544 x 16 x 544

### TRANSITION DETAIL ① S=1:10



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1453.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C11 (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-1454 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

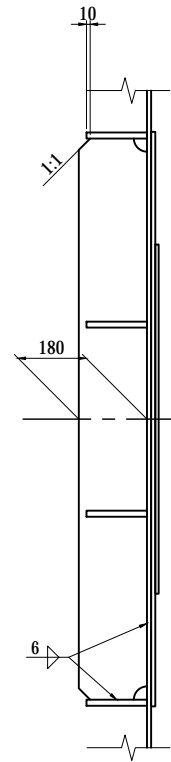
## CABLE NO.C11 (3)

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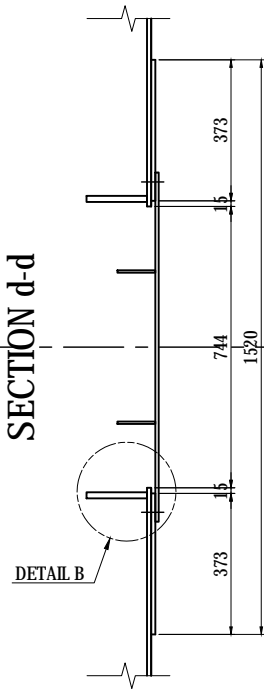
- 2-RIB PL 180 x 18 x 1484 (SM490YB)
- 1-PL 1520 x 11 x 2110 (SM490YA)
- 1-PL 924 x 9 x 1220
- 2-FB 100 x 6 x 940 (SS400)
- 3-PL 75 x 22 x 75
- 12-BN M16 x 50 (SUS304)
- 2RB 16x600 (SS400)

### SECTION B-B

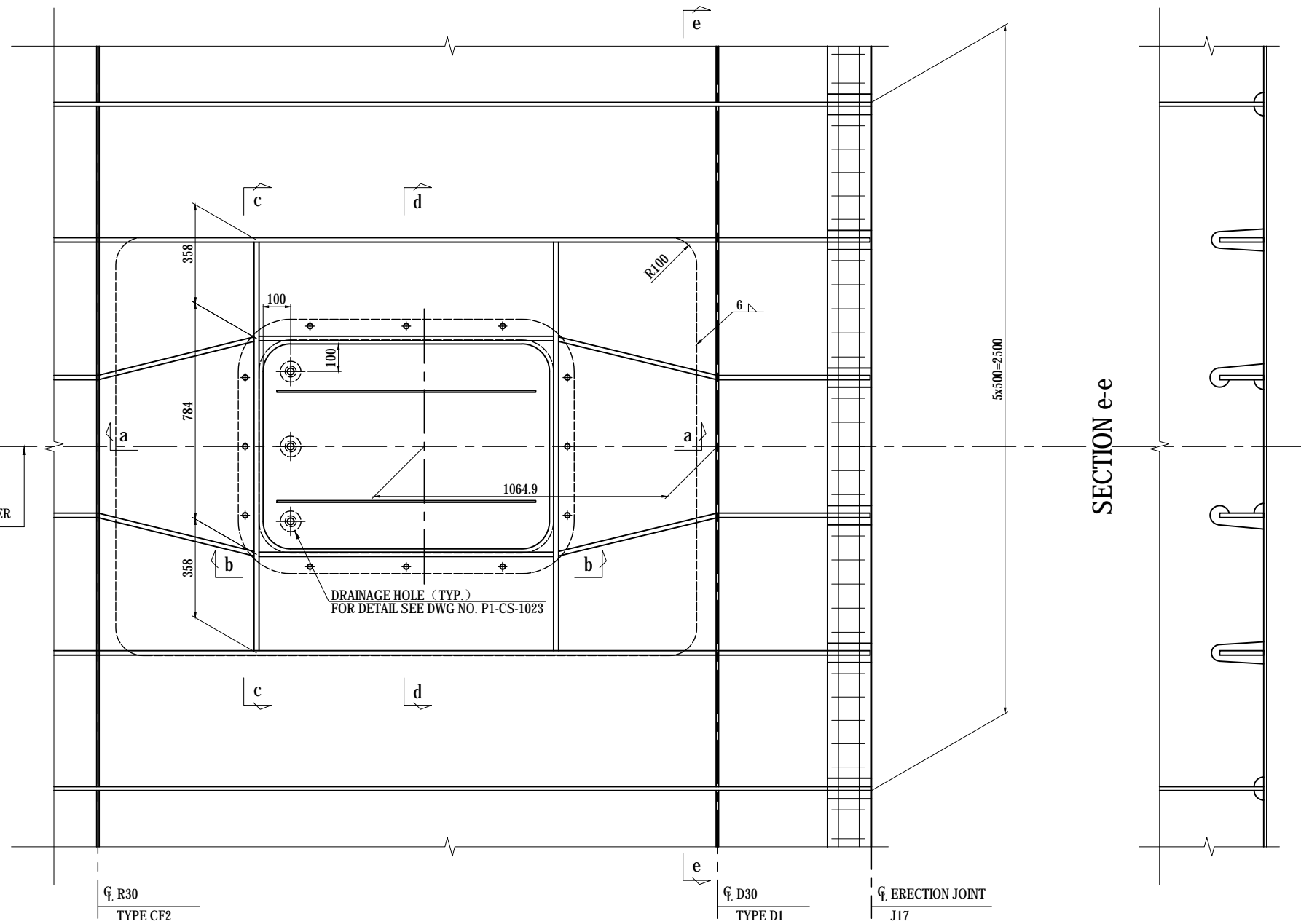
SECTION c-c



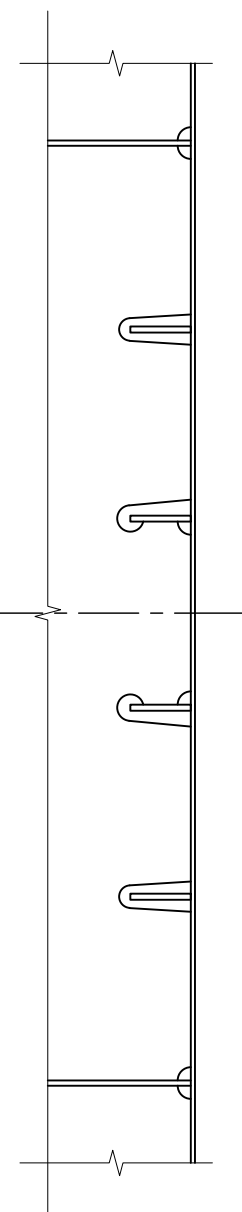
SECTION d-d



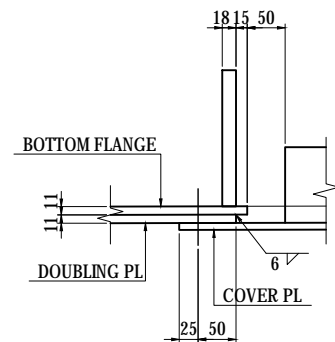
SYMM. ABT. CL. GIRDER



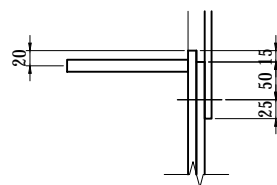
SECTION e-e



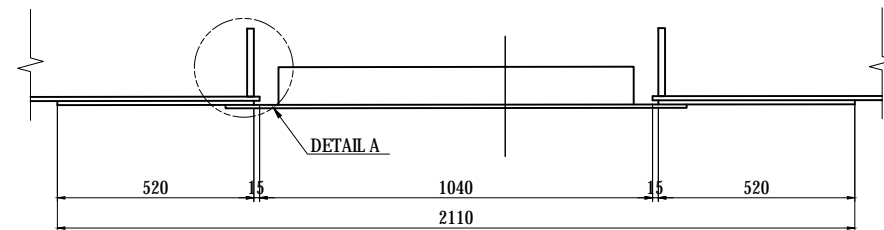
DETAIL A S=1:10



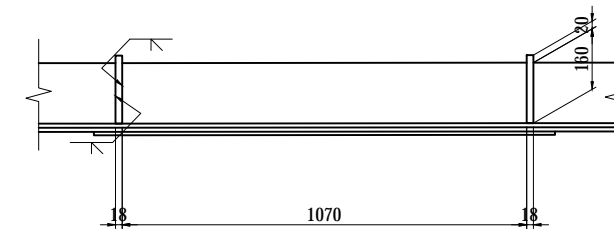
DETAIL B S=1:10



SECTION a-a



DEV. SECTION b-b



- NOTES:**
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1453.
  - 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| <p>PROJECT NAME</p> <p>DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT</p> | <p>FINANCED BY</p> <p>JAPAN INTERNATIONAL COOPERATION AGENCY</p> | <p>COUNTERPART</p> <p>REPUBLIC OF THE UNION OF MYANMAR<br/>MINISTRY OF CONSTRUCTION<br/>DEPARTMENT OF BRIDGE</p> | <p>JICA STUDY TEAM</p> <p>NIPPON KOEI CO., LTD.<br/>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br/>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br/>CHODAI CO., LTD.<br/>NIPPON ENGINEERING CONSULTANTS CO., LTD.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>NAME</th> <th>SIGNATURE</th> <th>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 | <p>DRAWING TITLE</p> <p style="text-align: center;"><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C11 (3)</b></p> | <p>PACKAGE</p> <p style="text-align: center;">1<br/>DWG No.<br/>P1-CS-1455</p> |
|--|--|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME   | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA   |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA  |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO  |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

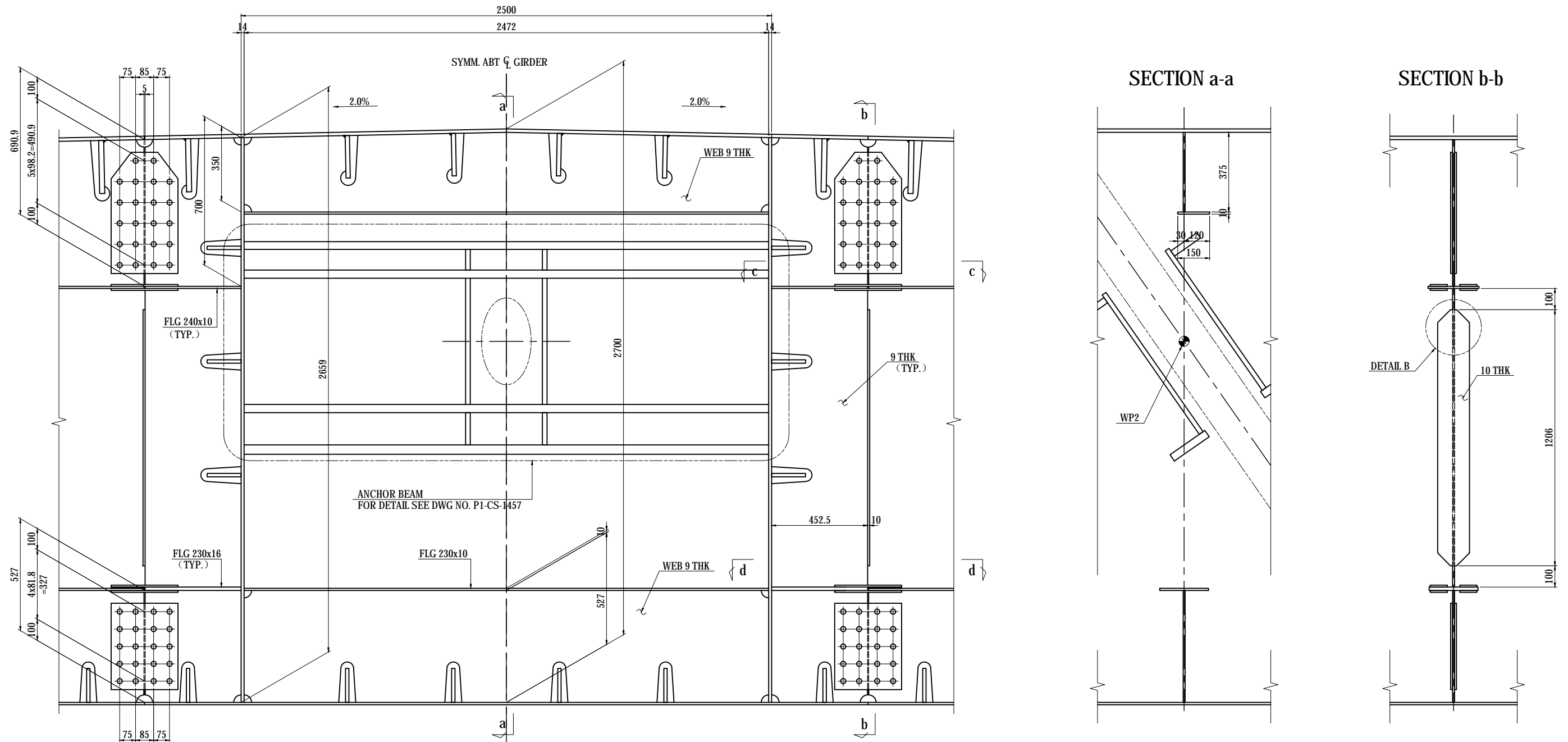
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C11 (4)

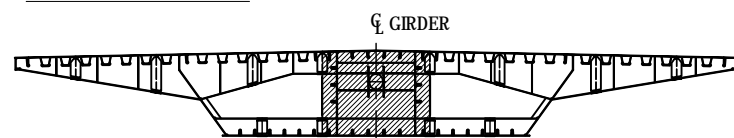
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### CROSSFRAME R30 SECTION C-C

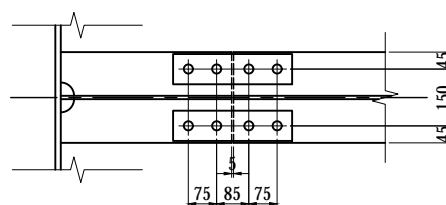
- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472



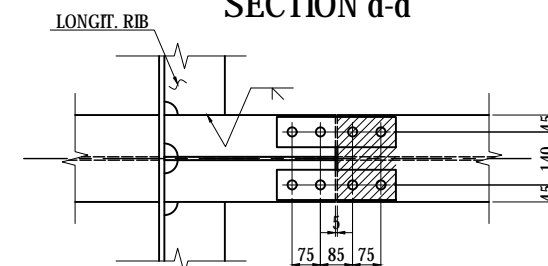
#### KEY DIAGRAM



#### SECTION c-c



#### SECTION d-d



#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1453.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

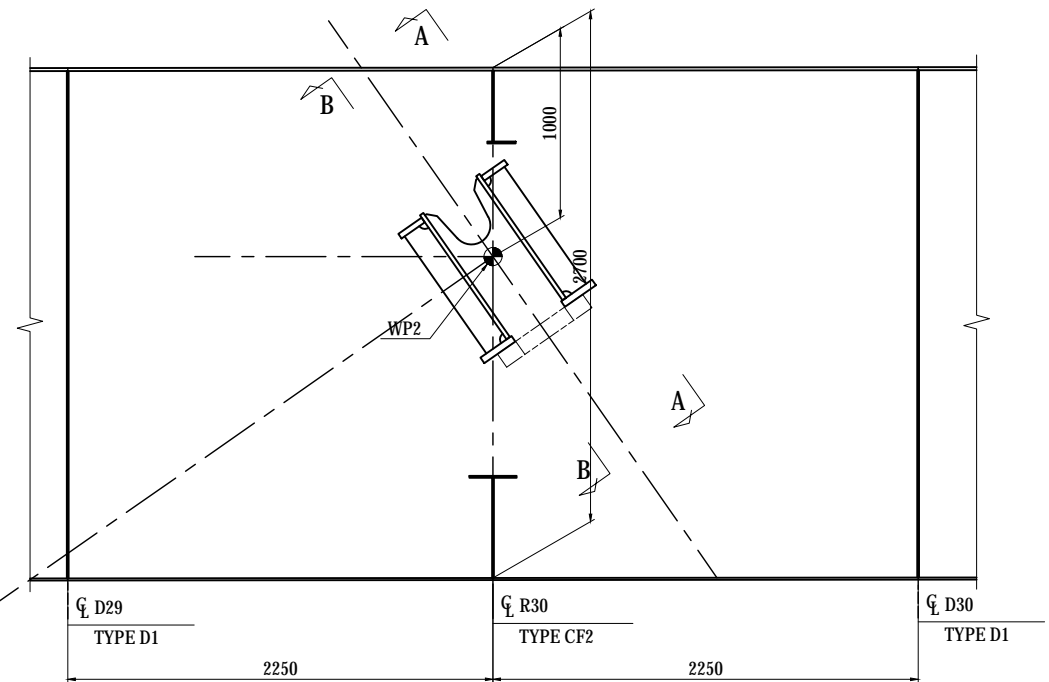
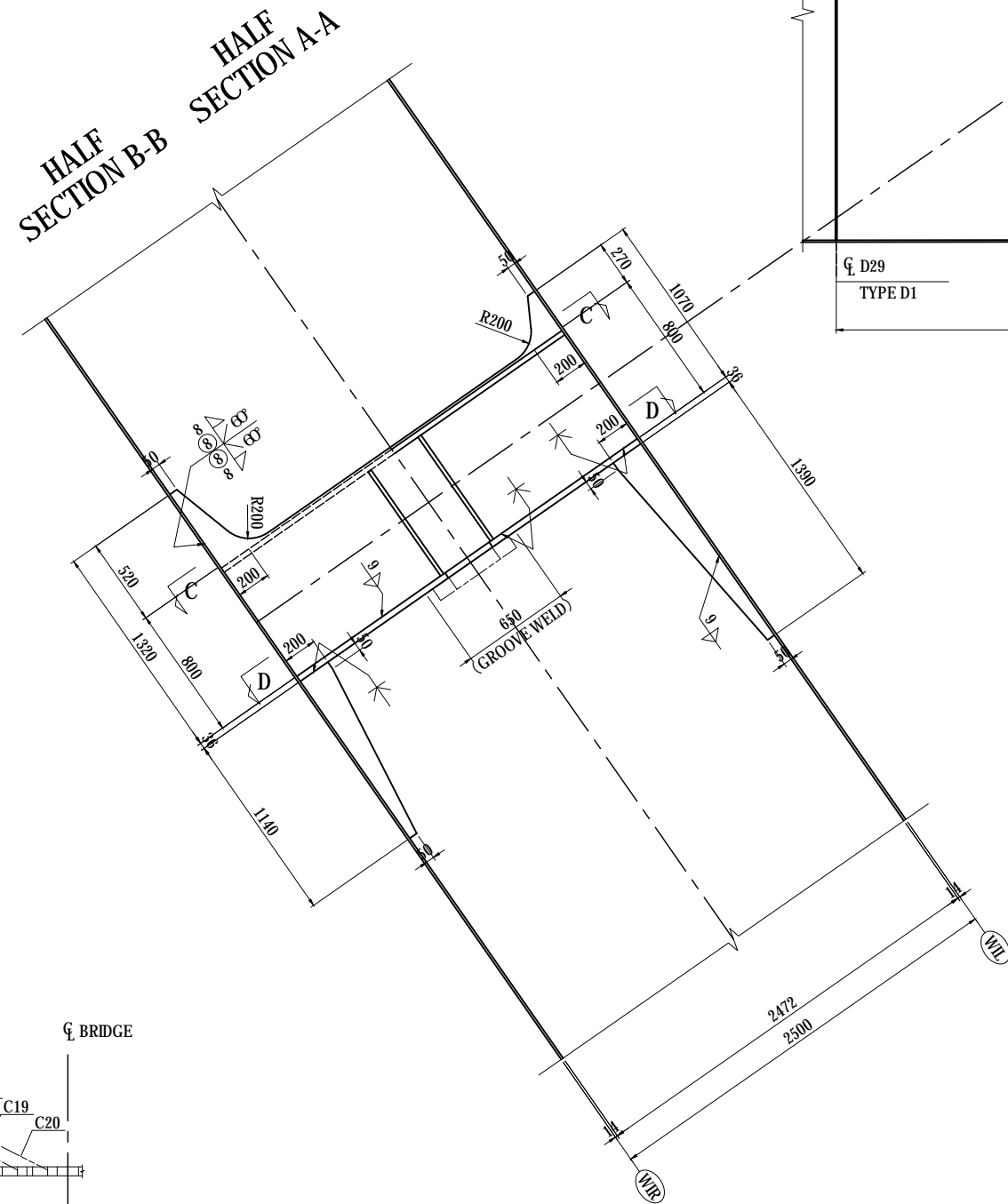
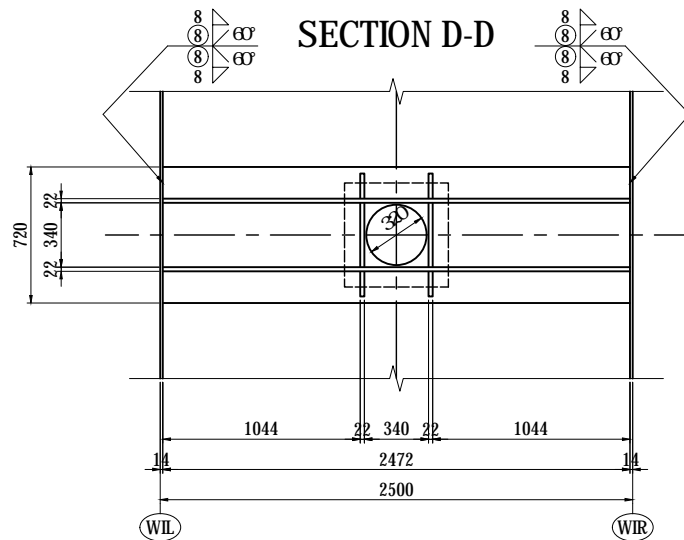
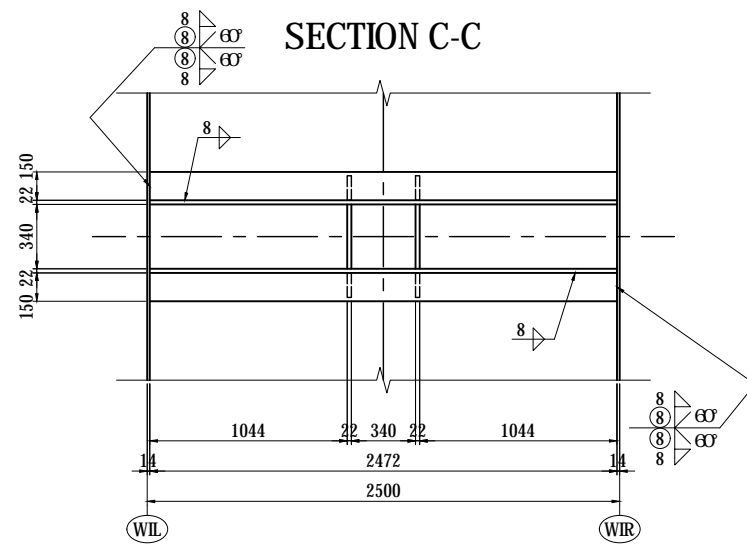
|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>NIPPON ENGINEERING CONSULTANTS CO.,LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>         CABLE NO.C11 (4)</b> | PACKAGE      |            |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |  | 27. Nov.2017 | DWG No.    |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |  | 28. Nov.2017 | P1-CS-1456 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |  | 29. Nov.2017 |            |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C11 (5)

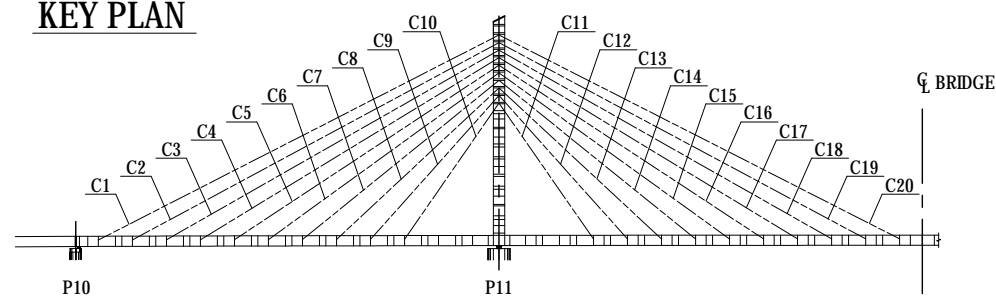
S=1:40

ANCHOR BEAM C11



- 1-FLG PL 720 x 36 x 2472(SM490YB)
- 2-FLG PL 150 x 30 x 2472(SM490YB)
- 1-WEB PL 1320 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1140(SM490YB)
- 1-WEB PL 1070 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1390(SM490YB)
- 2-RIB PL 340 x 22 x 785(SM490YB)
- 4-RIB PL 130 x 22 x 755(SM490YB)
- 1- PL 550 x 85 x 550(SM400C-H)

### KEY PLAN



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1456.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |  |                       |  |   |                                       |
|---|--|---|--|--|-----------------------|--|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>T.TOMODA<br>T. HAYAKAWA<br>Y. SANO | SIGNATURE<br><br><br> | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C11 (5)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1457 |
|---|--|---|--|--|-----------------------|--|---|---------------------------------------|

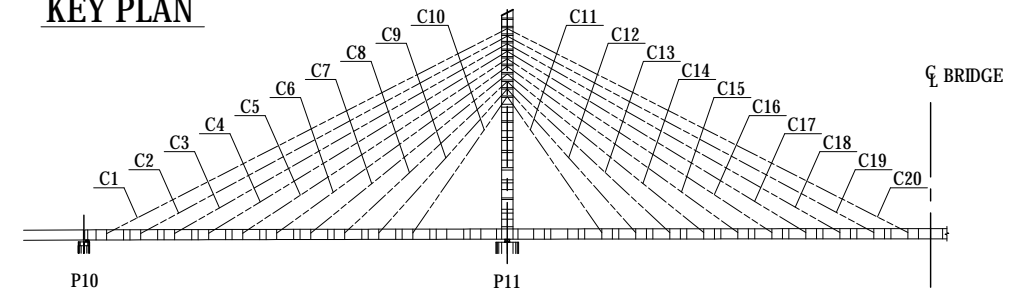
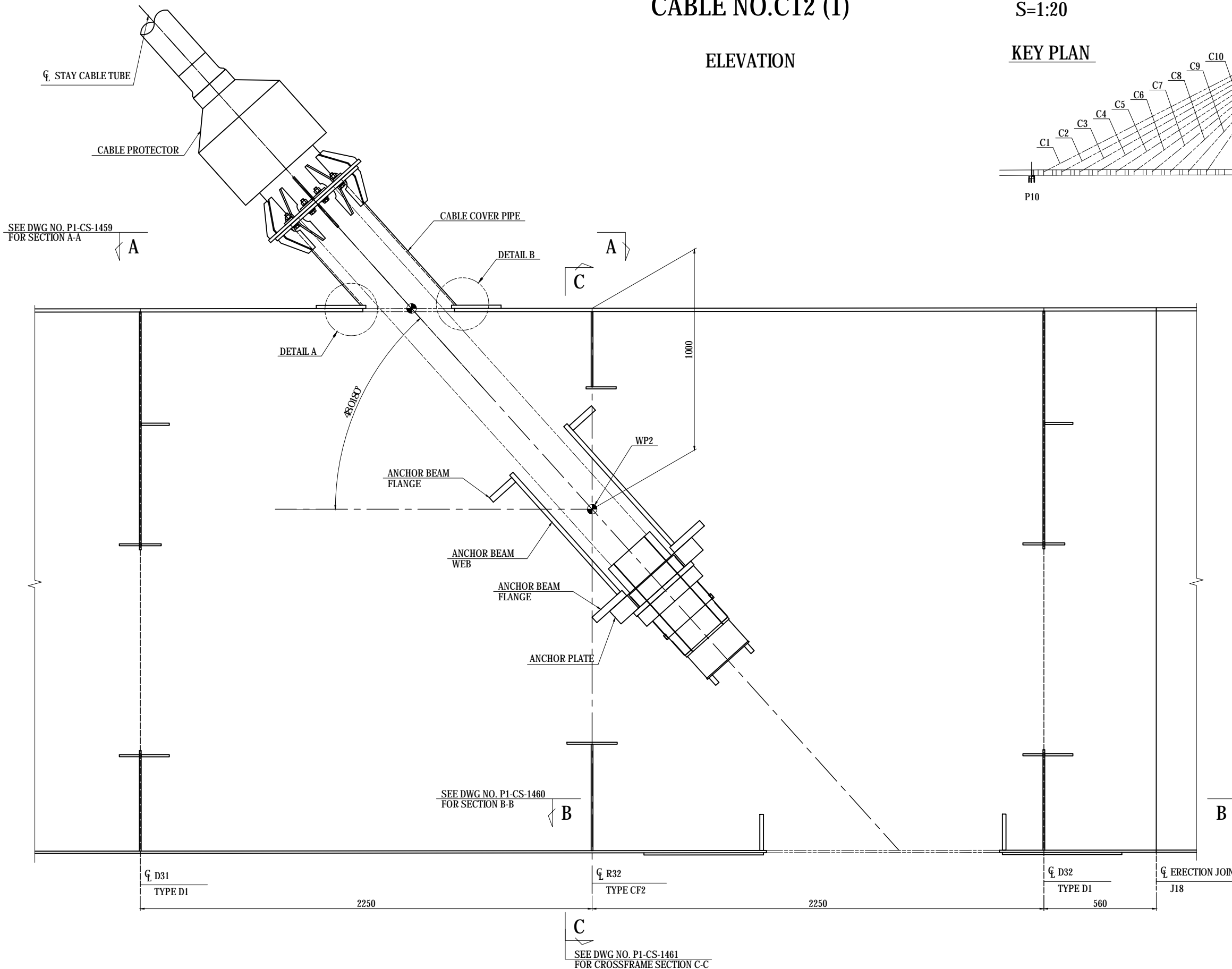
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C12 (1)

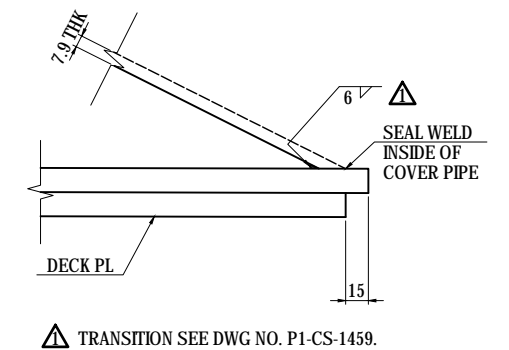
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ELEVATION

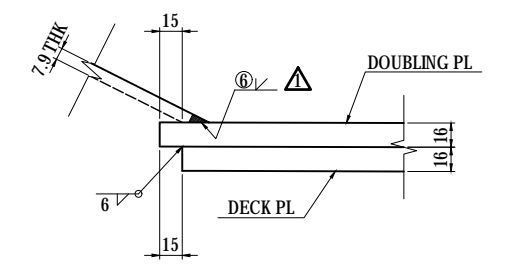
KEY PLAN



DETAIL A S=1:5



DETAIL B S=1:5



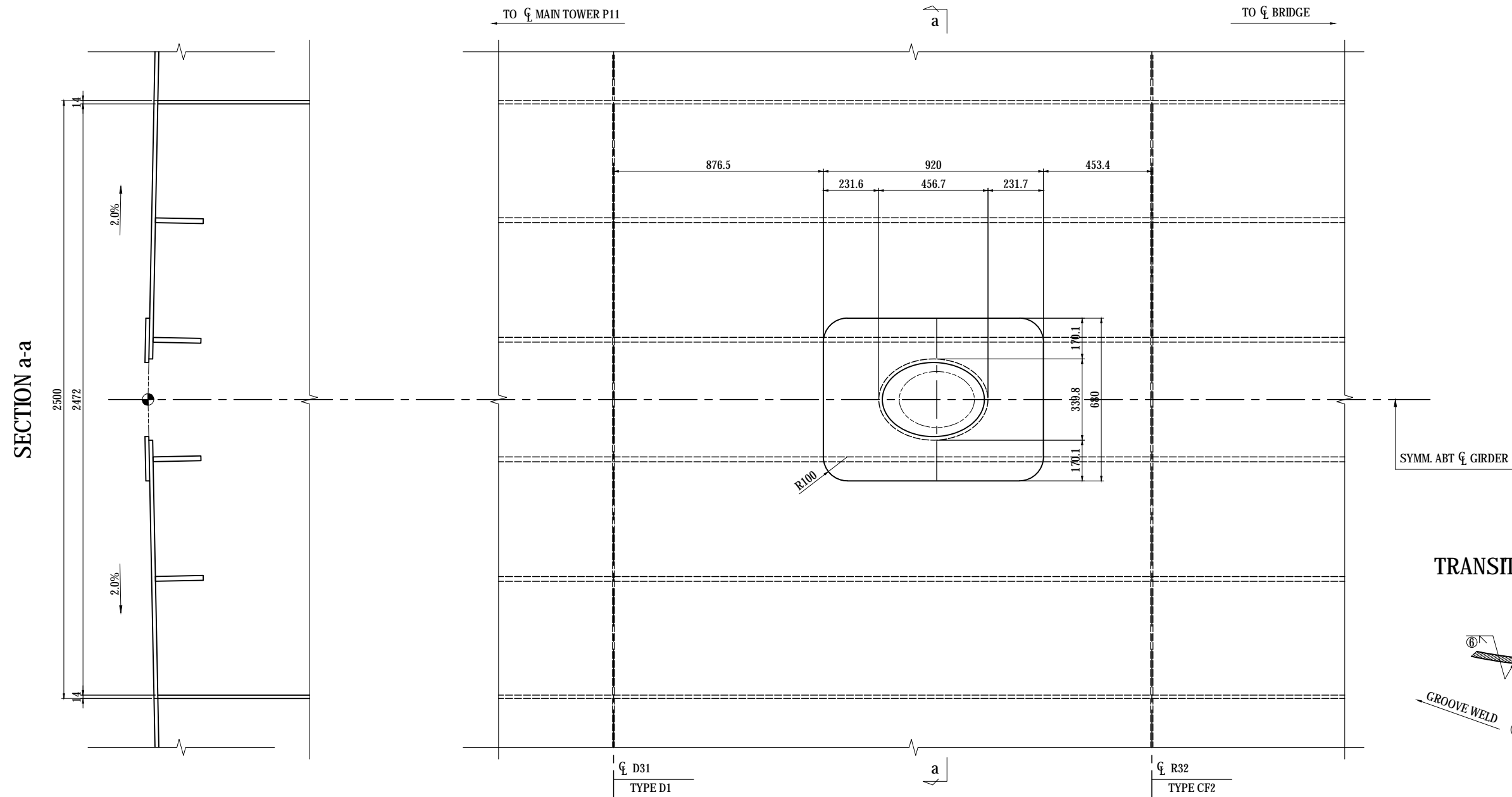
| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C12 (1) | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1458 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

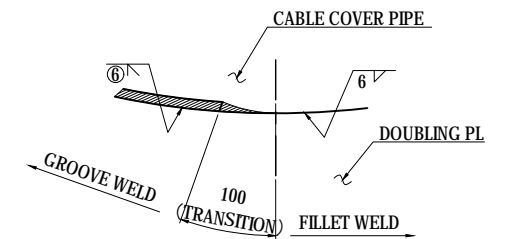
CABLE NO.C12 (2)

S=1:20

## SECTION A-A



### TRANSITION DETAIL ① S=1:10



- 1-PL 680 x 16 x 920
- 1-PIPE 355.6 x 7.9 x 851 (STK400)
- 12-RIB PL 88 x 9 x 150
- 1-FLG PL 544 x 16 x 544

### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1458.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C12 (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-1459 |



# MAIN GIRDER ANCHORAGE OF STAY CABLES

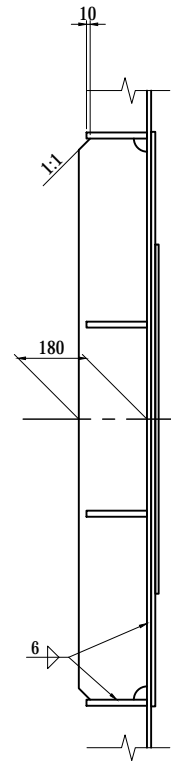
## CABLE NO.C12 (3)

S=1:20

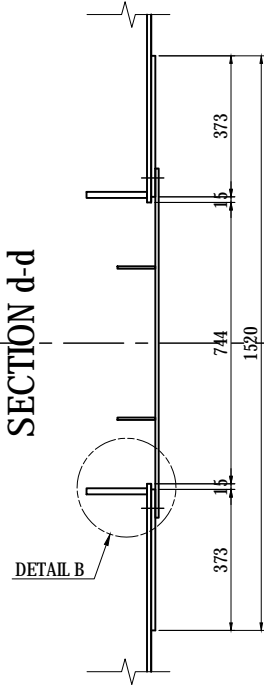
- 2-RIB PL 180 x 18 x 1484 (SM490YB)
- 1-PL 1520 x 11 x 2030 (SM490YA)
- 1-PL 924 x 9 x 1340
- 2-FB 100 x 6 x 1060 (SS400)
- 3-PL 75 x 22 x 75
- 12-BN M16 x 50 (SUS304)
- 2RB 16x600 (SS400)

### SECTION B-B

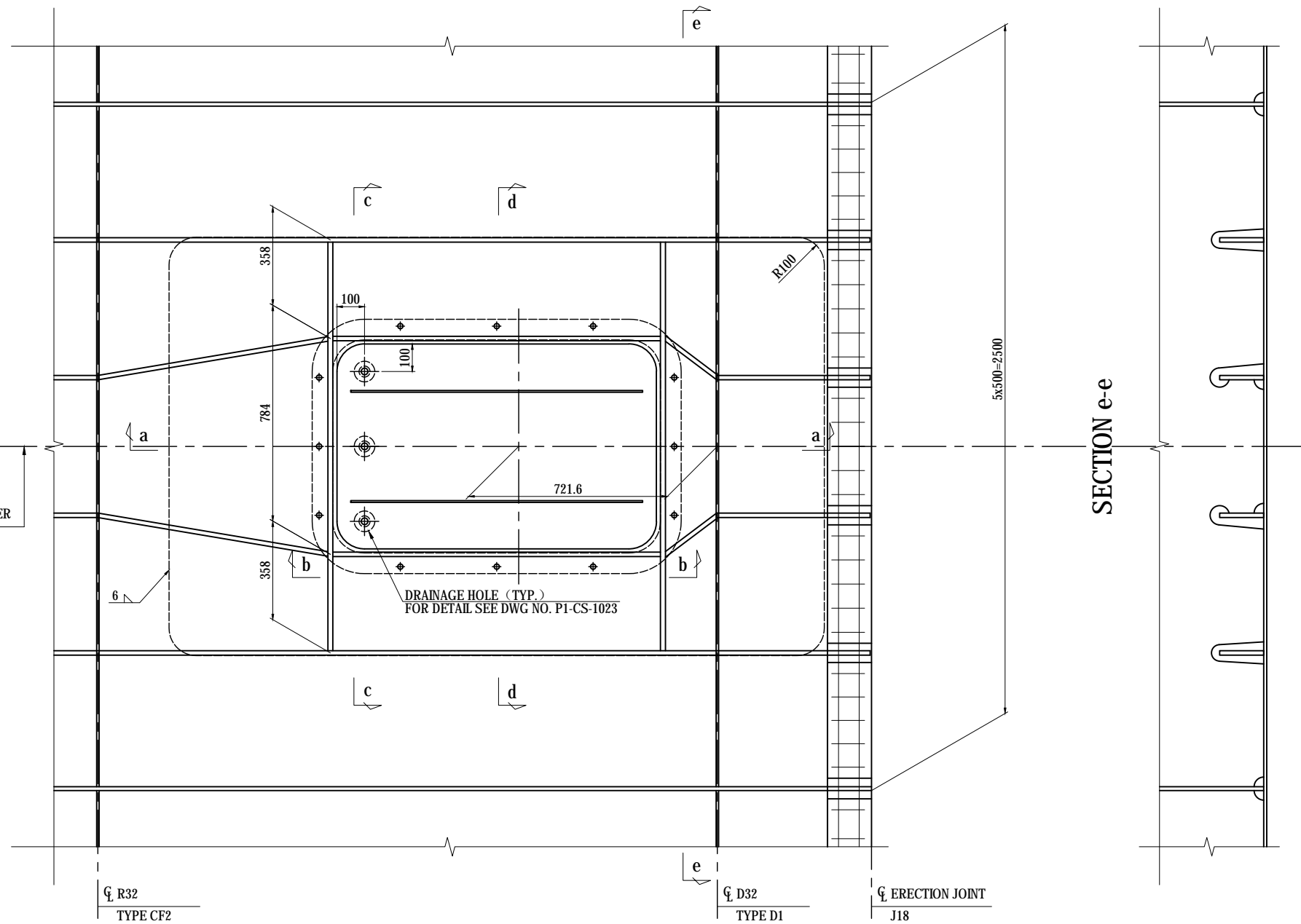
SECTION c-c



SECTION d-d

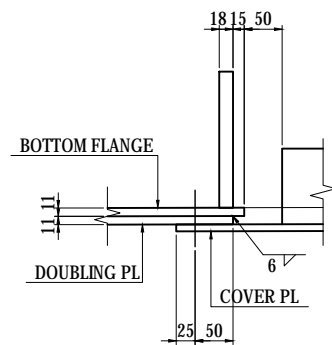


SYMM. ABT. CL. GIRDER

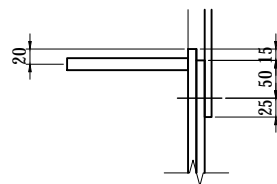


SECTION e-e

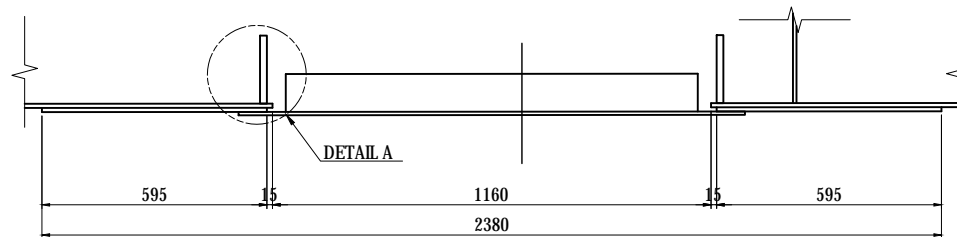
DETAIL A S=1:10



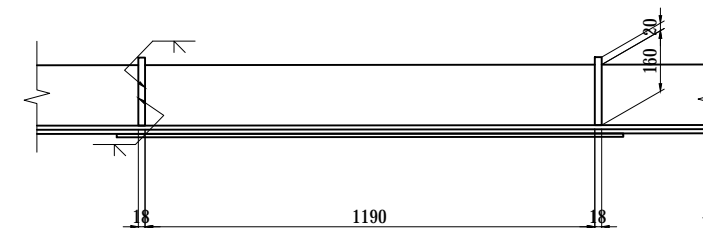
DETAIL B S=1:10



SECTION a-a



DEV. SECTION b-b



**NOTES:**

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1458.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C12 (3)</b> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1460 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

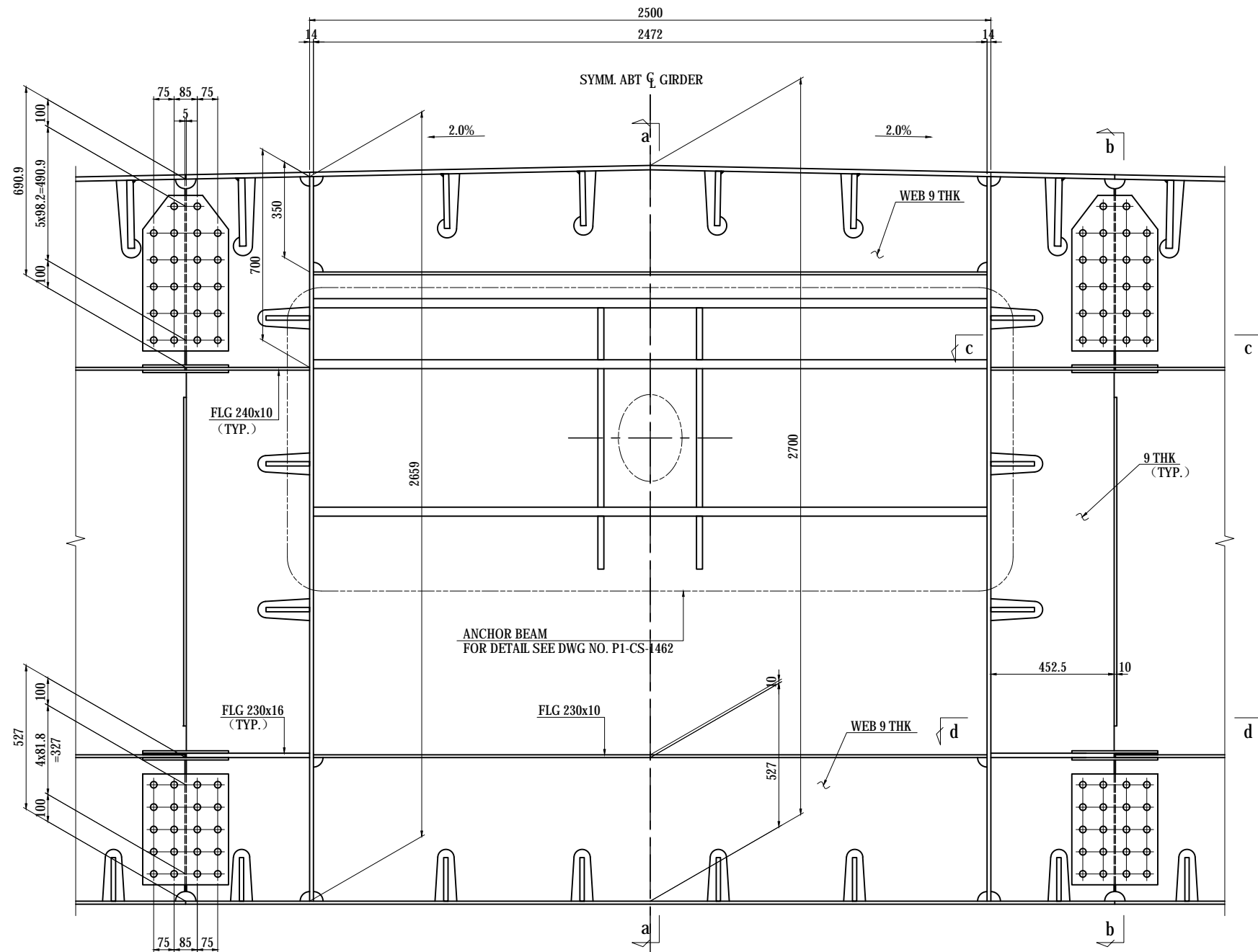
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C12 (4)

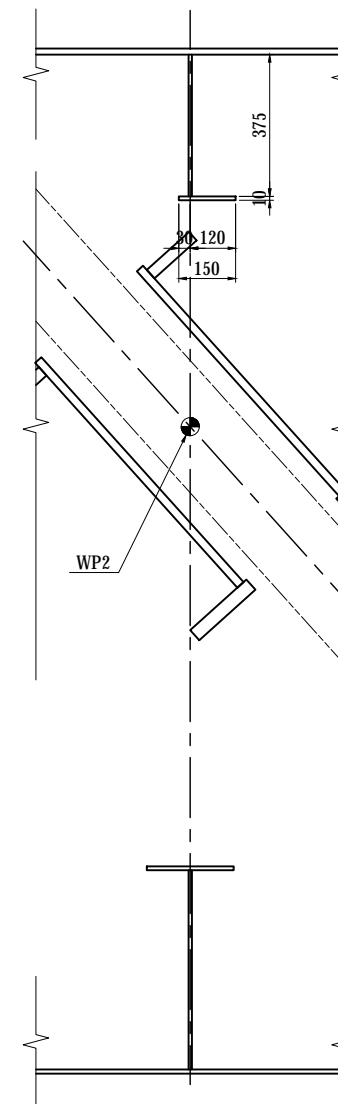
S=1:20

### CROSSFRAME R32 SECTION C-C

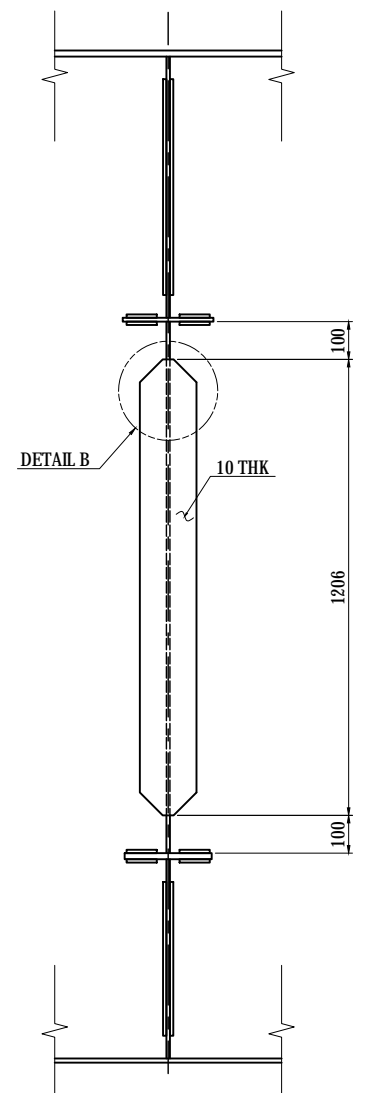
- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472



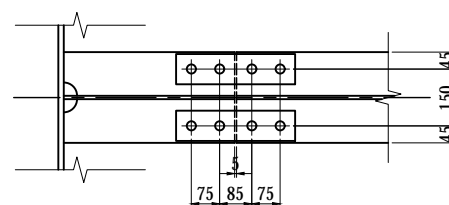
SECTION a-a



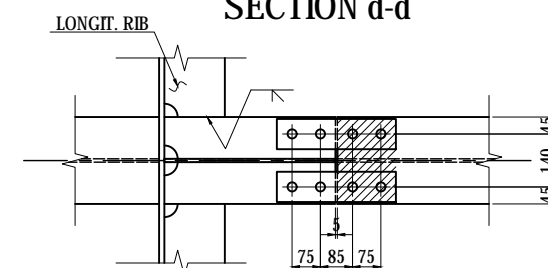
SECTION b-b



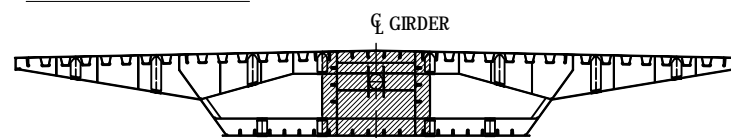
SECTION c-c



SECTION d-d



KEY DIAGRAM



#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1458.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

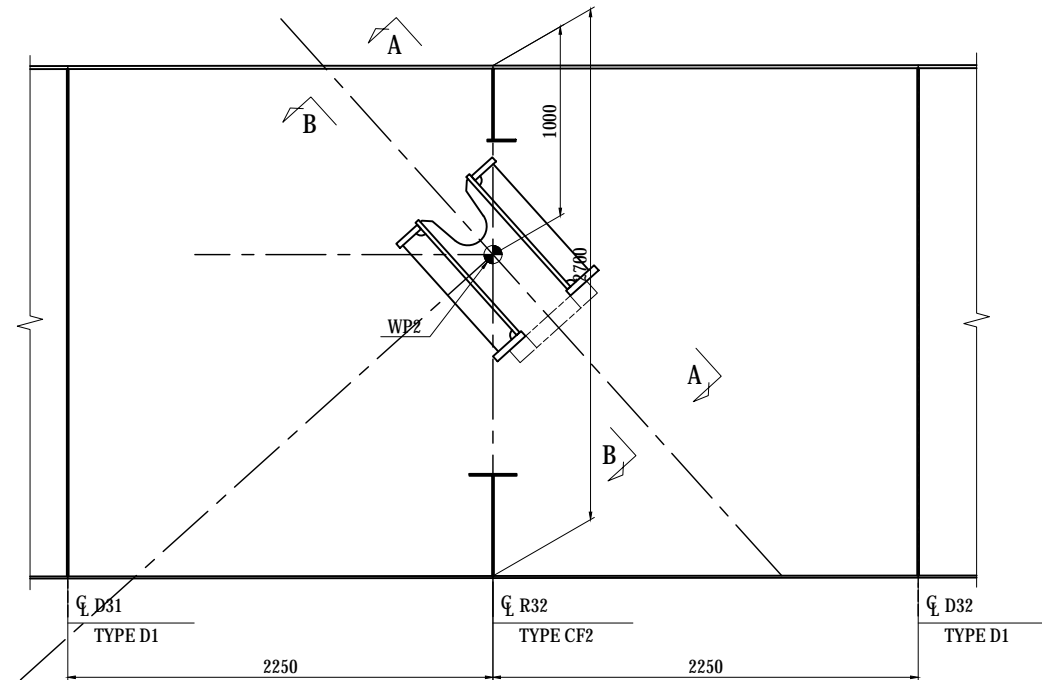
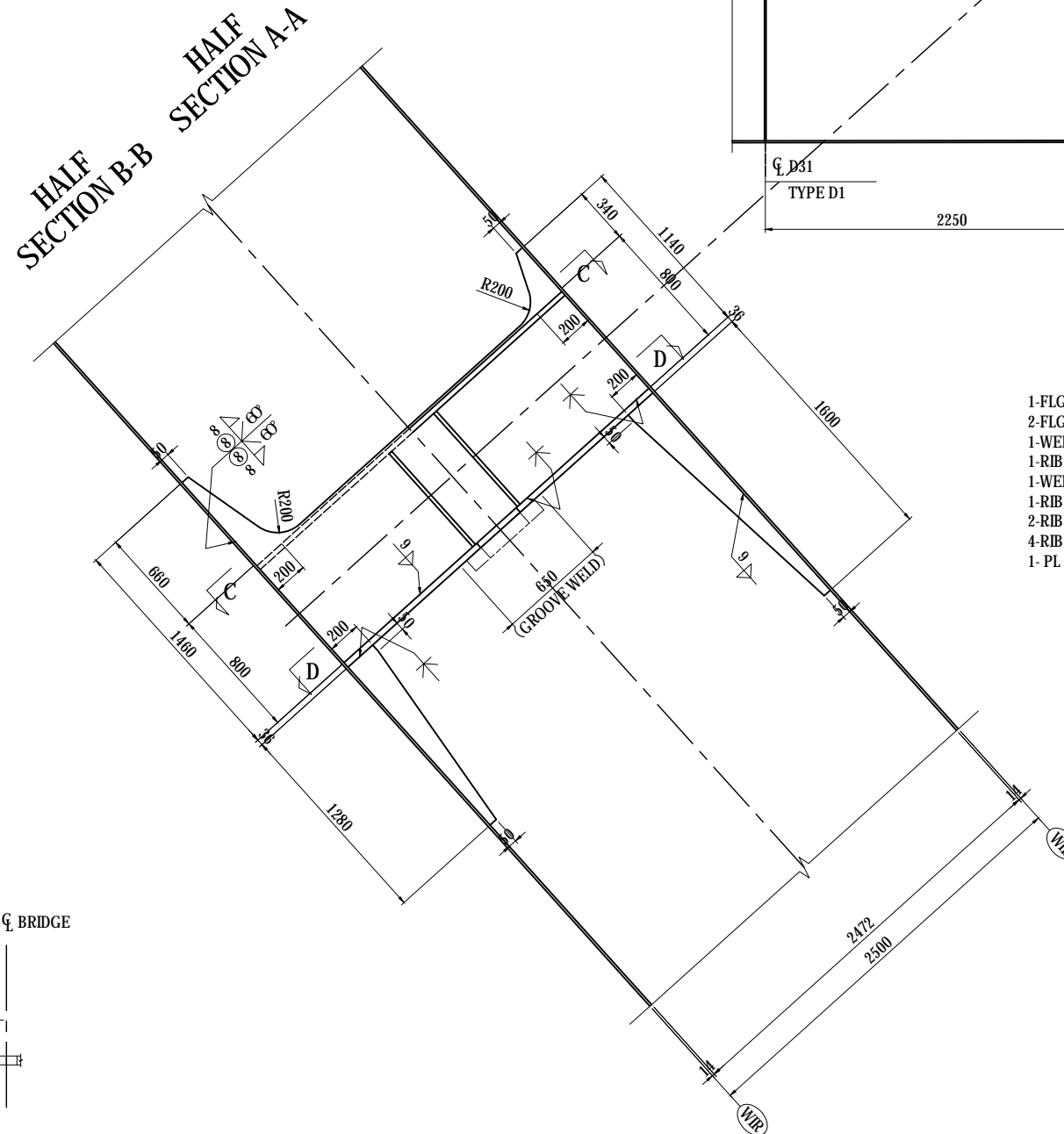
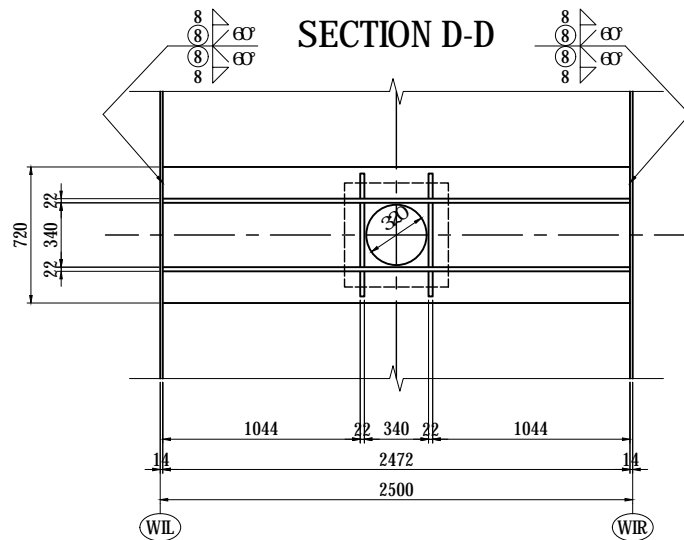
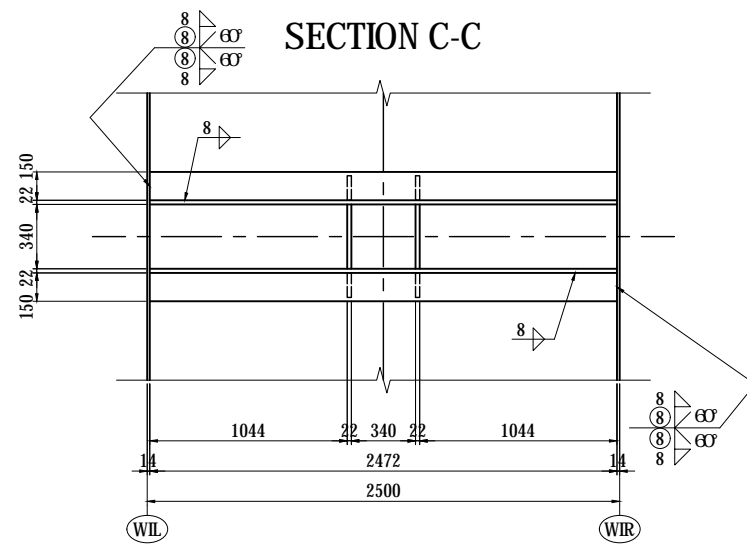
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|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C12 (4)</b> | 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-1461 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C12 (5)

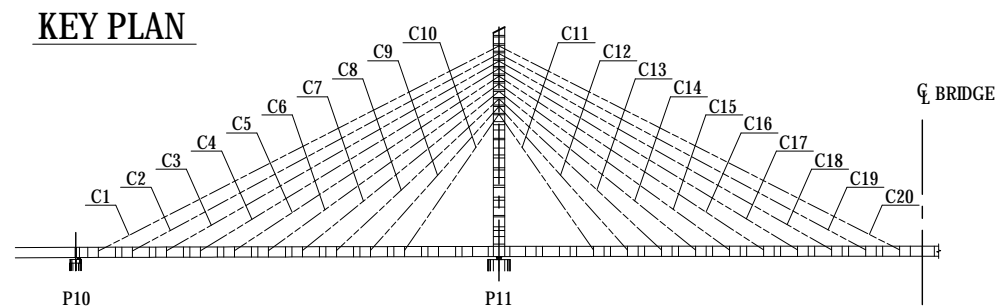
S=1:40

ANCHOR BEAM C12



- 1-FLG PL 720 x 36 x 2472(SM490YB)
- 2-FLG PL 150 x 30 x 2472(SM490YB)
- 1-WEB PL 1460 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1280(SM490YB)
- 1-WEB PL 1140 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1600(SM490YB)
- 2-RIB PL 340 x 22 x 785(SM490YB)
- 4-RIB PL 130 x 22 x 755(SM490YB)
- 1- PL 550 x 85 x 550(SM400C-H)

### KEY PLAN



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1461.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

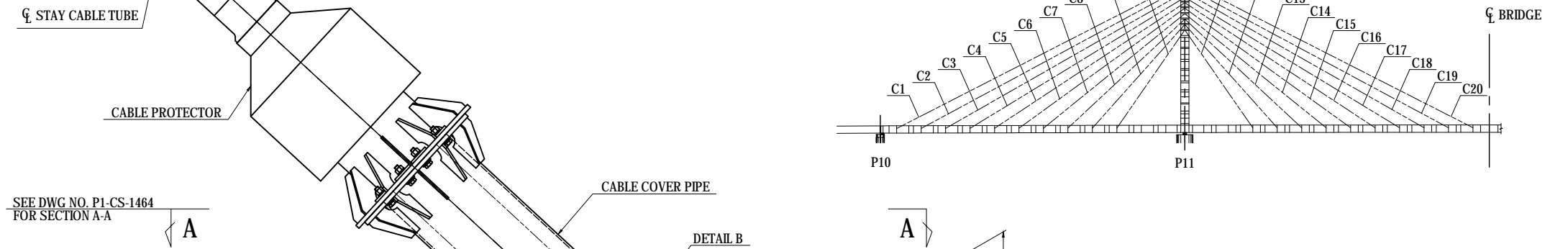
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | DRAWING TITLE<br><h2 style="text-align: center;">MAIN GIRDER ANCHORAGE OF STAY CABLES</h2> <h3 style="text-align: center;">CABLE NO.C12 (5)</h3> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1462 |
|---|--|---|--|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|--|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |

# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C13 (1)

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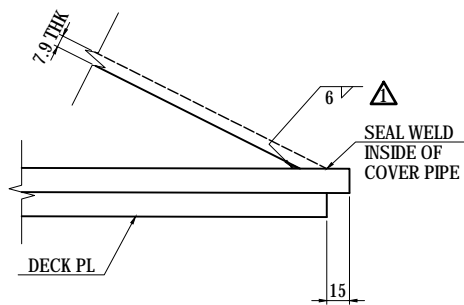
ELEVATION

KEY PLAN



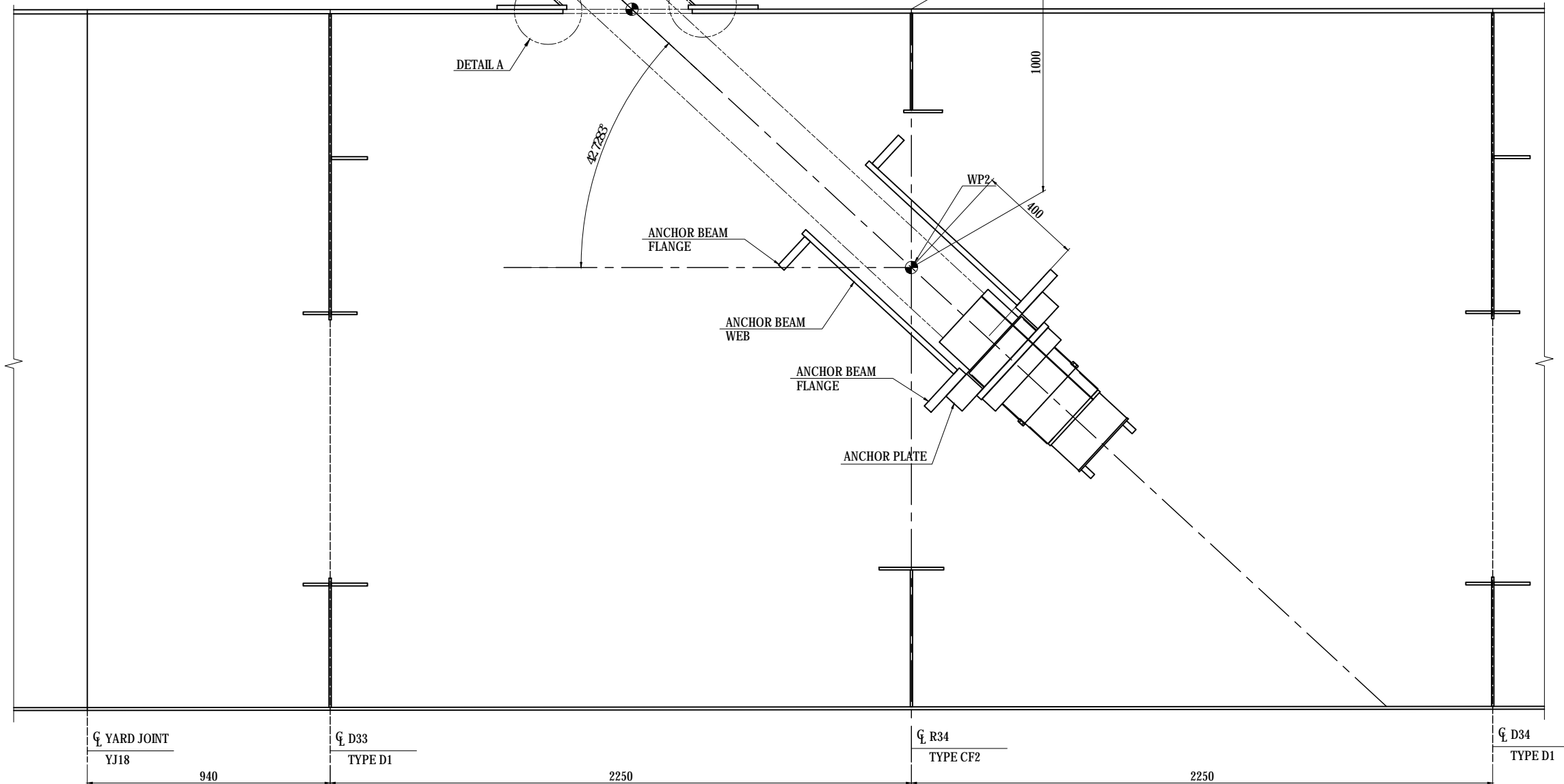
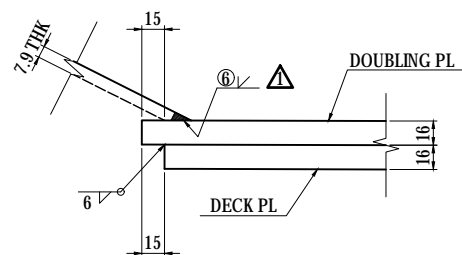
SEE DWG NO. P1-CS-1464  
FOR SECTION A-A

DETAIL A S=1:5



TRANSITION SEE DWG NO. P1-CS-1464.

DETAIL B S=1:5



YARD JOINT  
YJ18

940

D33  
TYPE D1

2250

R34  
TYPE CF2

2250

D34  
TYPE D1

B

SEE DWG NO. P1-CS-1465  
FOR CROSSFRAME SECTION B-B

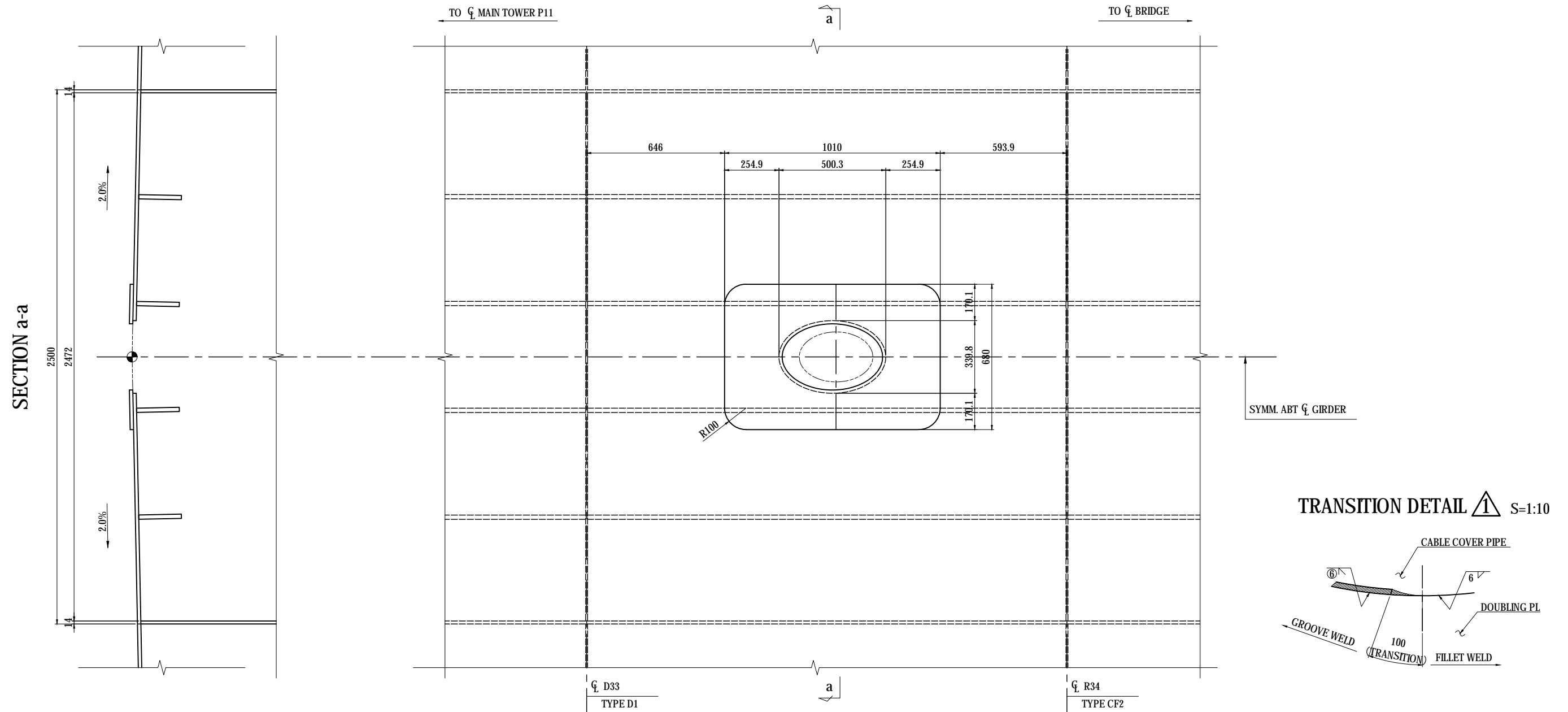
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|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C13 (1) | 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-1463 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C13 (2)

S=1:20

### SECTION A-A



- 1-PL 680 x 16 x 1010
- 1-PIPE 355.6 x 7.9 x 950 (STK400)
- 12-RIB PL 88 x 9 x 150
- 1-FLG PL 544 x 16 x 544

**NOTES:**

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1463.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>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>友田 智雄</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>平川 知平</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>佐野 祐一</td> </tr> </table> | NAME | SIGNATURE | DATE | PREPARED BY | T.TOMODA | 友田 智雄 | CHECKED BY | T. HAYAKAWA | 平川 知平 | APPROVED BY | Y. SANO | 佐野 祐一 | <small>DRAWING TITLE</small><br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C13 (2)</b> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1464 |
|--|---|--|---|---|------|-----------|------|-------------|----------|-------|------------|-------------|-------|-------------|---------|-------|--|--|
| NAME   | SIGNATURE   | DATE   |   |   |      |           |      |             |          |       |            |             |       |             |         |       |  |  |
| PREPARED BY  | T.TOMODA  | 友田 智雄  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |  |  |
| CHECKED BY   | T. HAYAKAWA   | 平川 知平  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |  |  |
| APPROVED BY  | Y. SANO   | 佐野 祐一  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |  |  |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

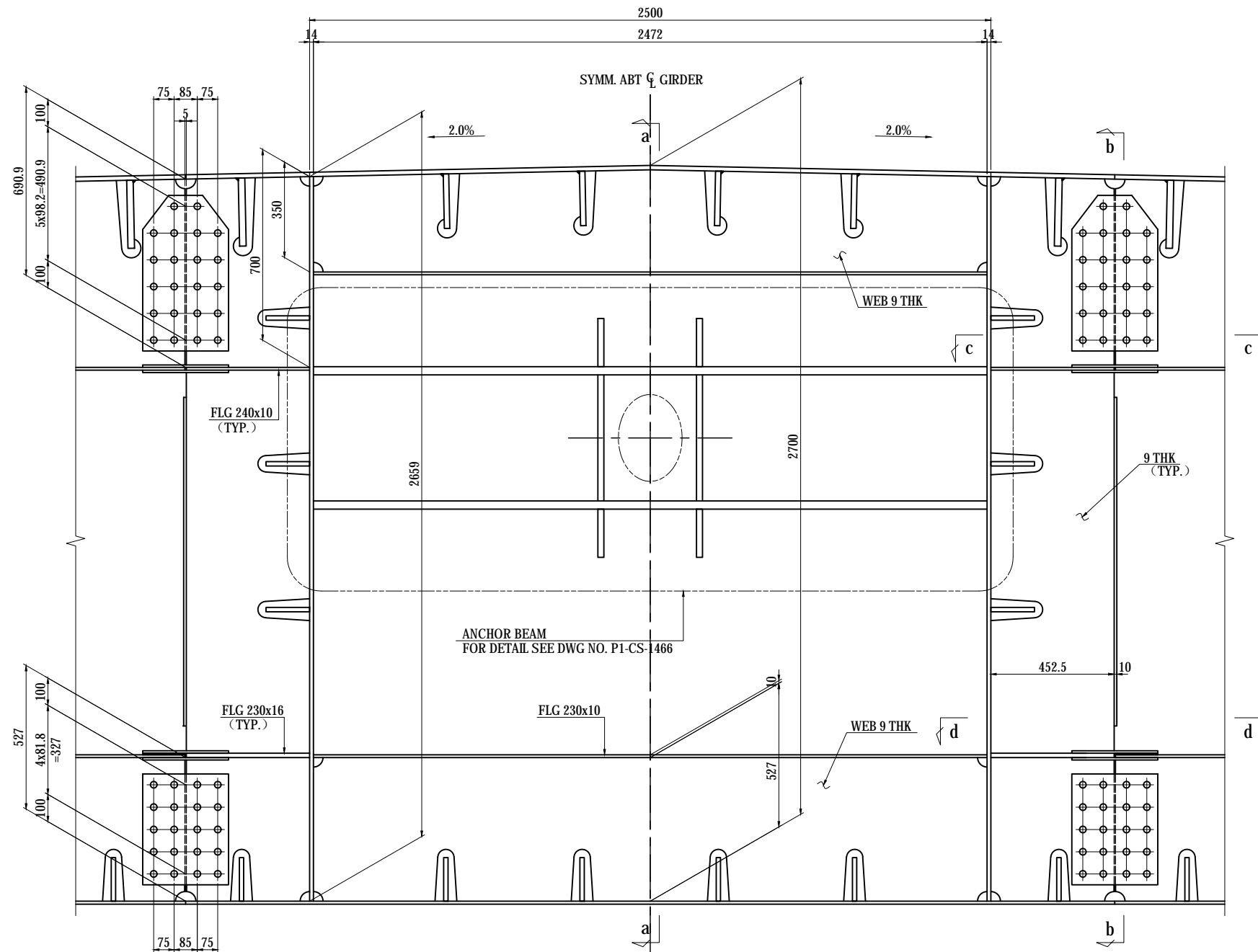
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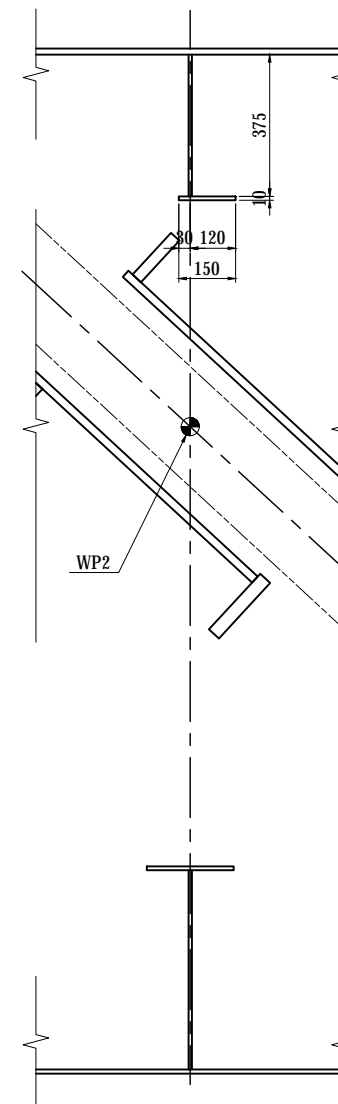
### CROSSFRAME R34

### SECTION B-B

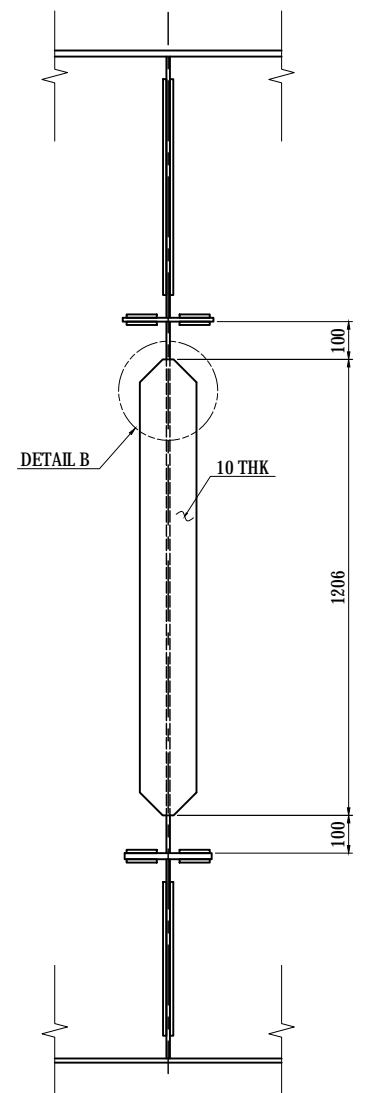
- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472



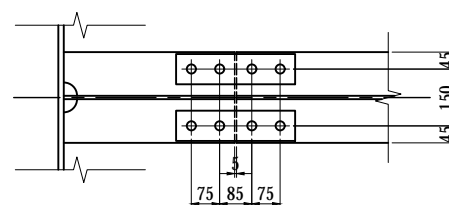
SECTION a-a



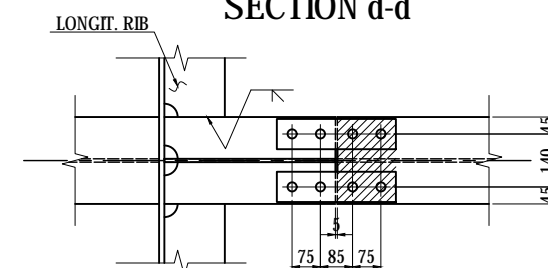
SECTION b-b



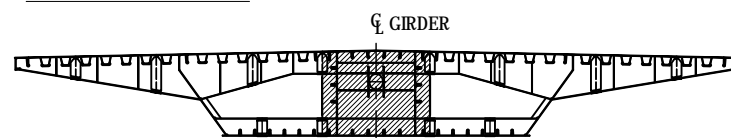
SECTION c-c



SECTION d-d



KEY DIAGRAM



#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1463.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

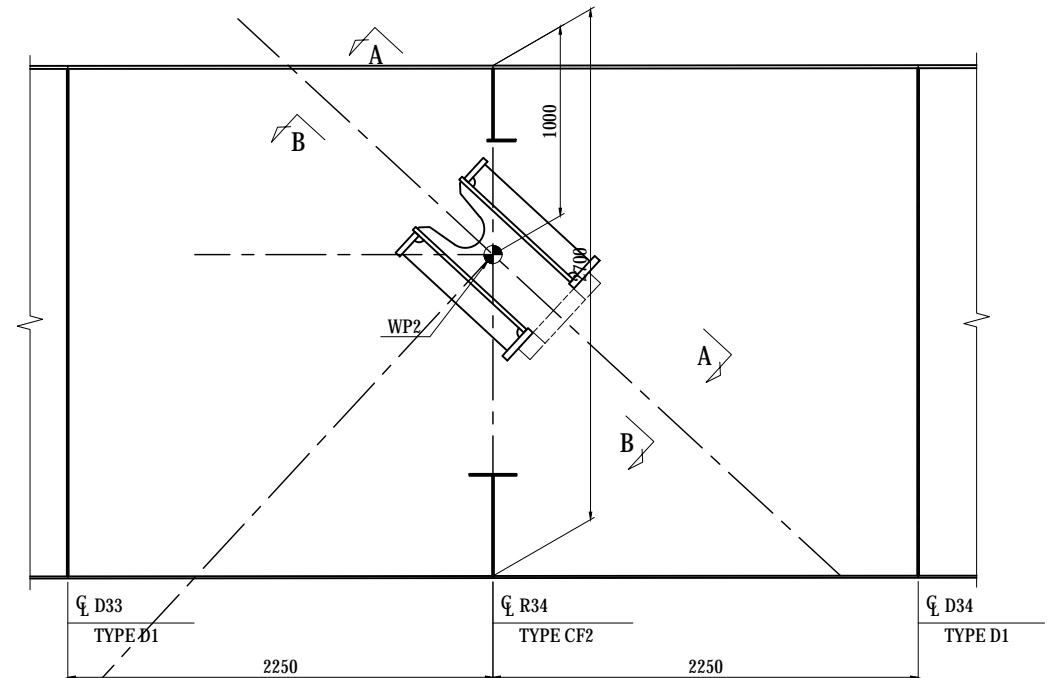
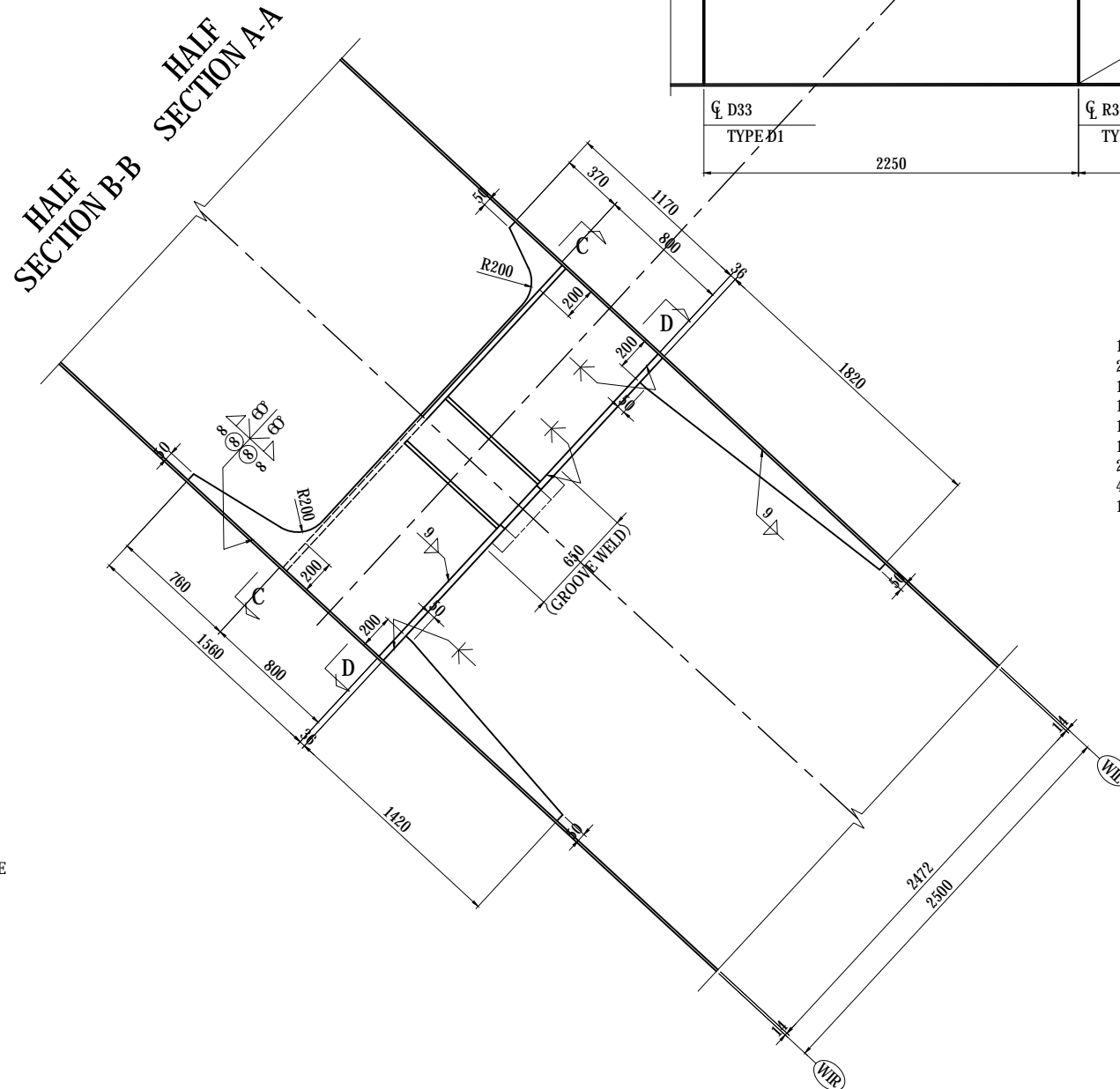
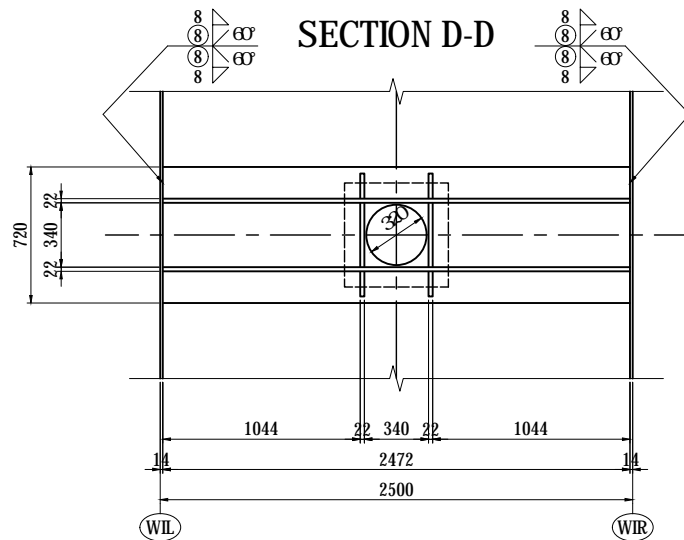
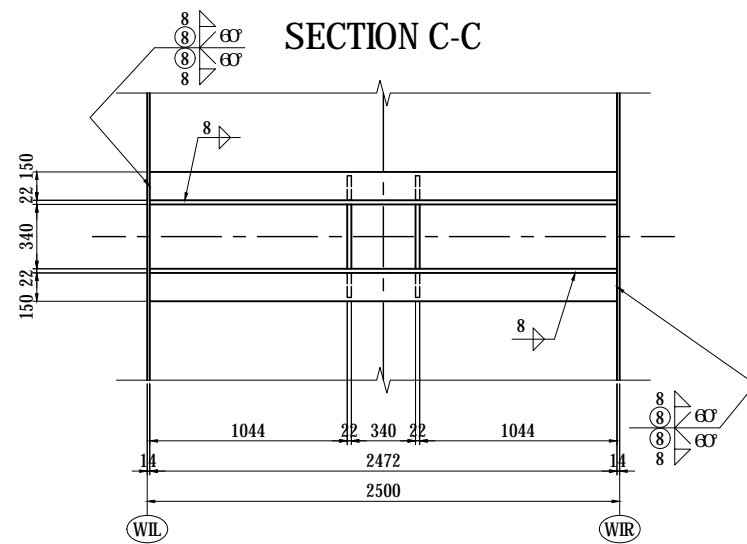
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|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>NIPPON ENGINEERING CONSULTANTS CO.,LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C13 (3)</b> | 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-1465 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C13 (4)

S=1:40

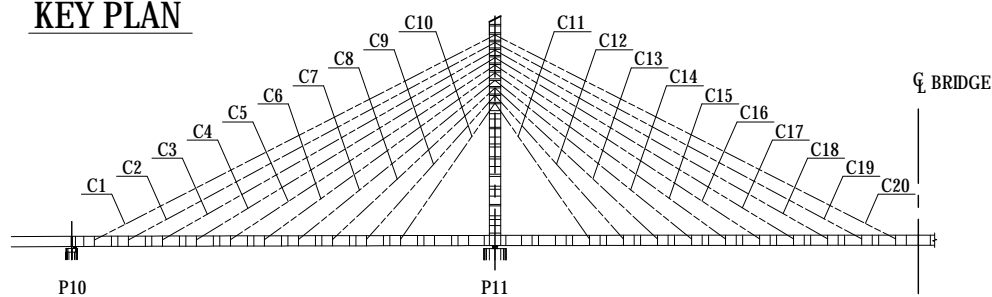
ANCHOR BEAM C13



- 1-FLG PL 720 x 36 x 2472(SM490YB)
- 2-FLG PL 150 x 30 x 2472(SM490YB)
- 1-WEB PL 1560 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1420(SM490YB)
- 1-WEB PL 1170 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1820(SM490YB)
- 2-RIB PL 340 x 22 x 785(SM490YB)
- 4-RIB PL 130 x 22 x 755(SM490YB)
- 1- PL 550 x 85 x 550(SM400C-H)

**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1465.  
 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

**KEY PLAN**



| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>NIPPON ENGINEERING CONSULTANTS CO.,LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | DRAWING TITLE<br><h3 style="text-align: center;">MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C13 (4)</h3> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1466 |
|---|--|---|--|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|---|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |

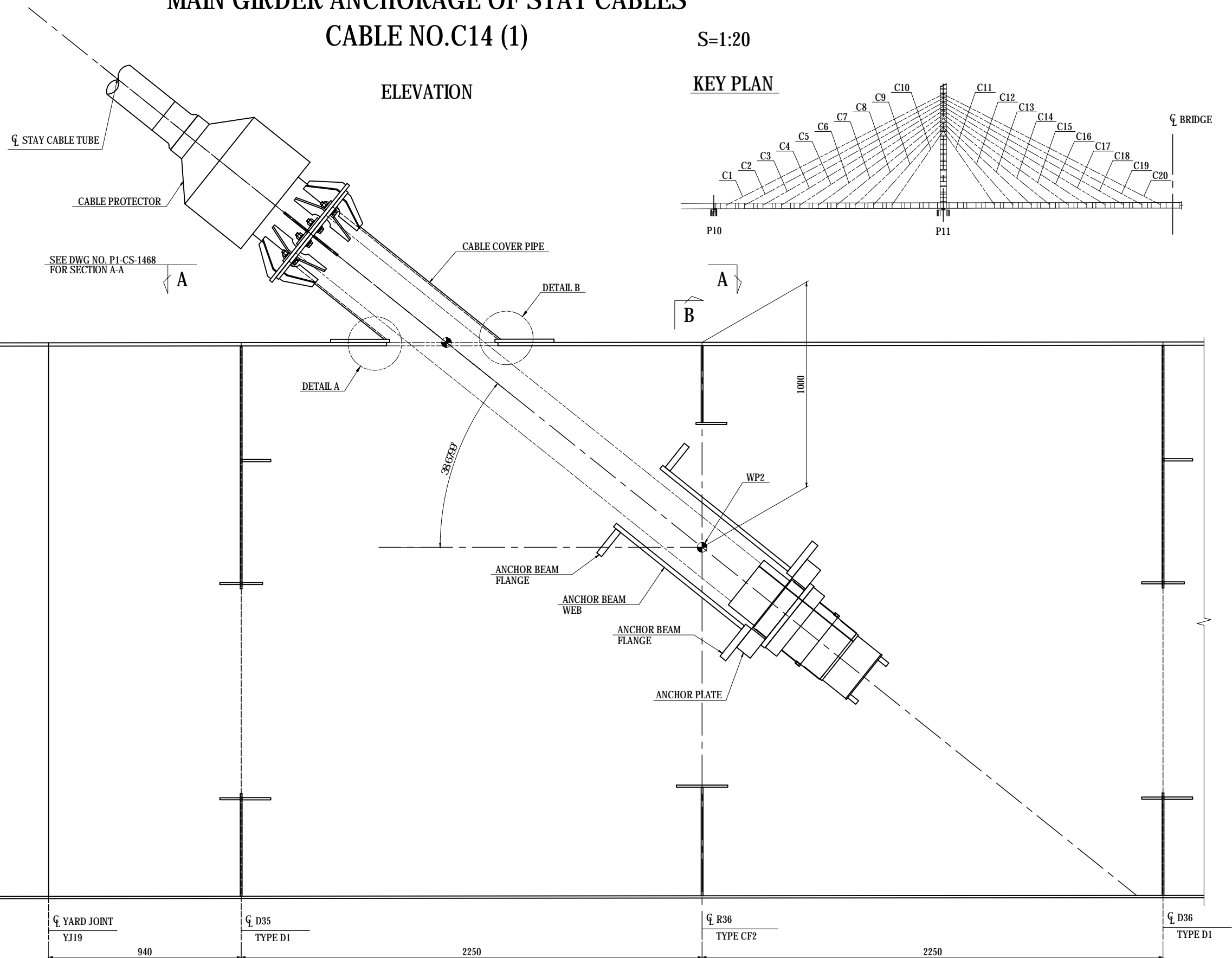
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C14 (1)

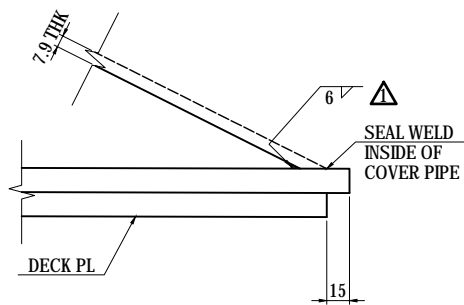
S=1:20

ELEVATION

KEY PLAN

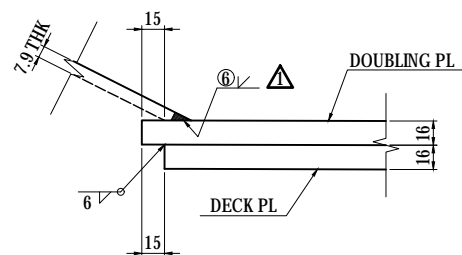


DETAIL A S=1:5



TRANSITION SEE DWG NO. P1-CS-1468.

DETAIL B S=1:5



B

SEE DWG NO. P1-CS-1469  
FOR CROSSFRAME SECTION B-B

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><h3 style="text-align: center;">MAIN GIRDER ANCHORAGE OF STAY CABLES</h3> <h4 style="text-align: center;">CABLE NO.C14 (1)</h4> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1467 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|---|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |

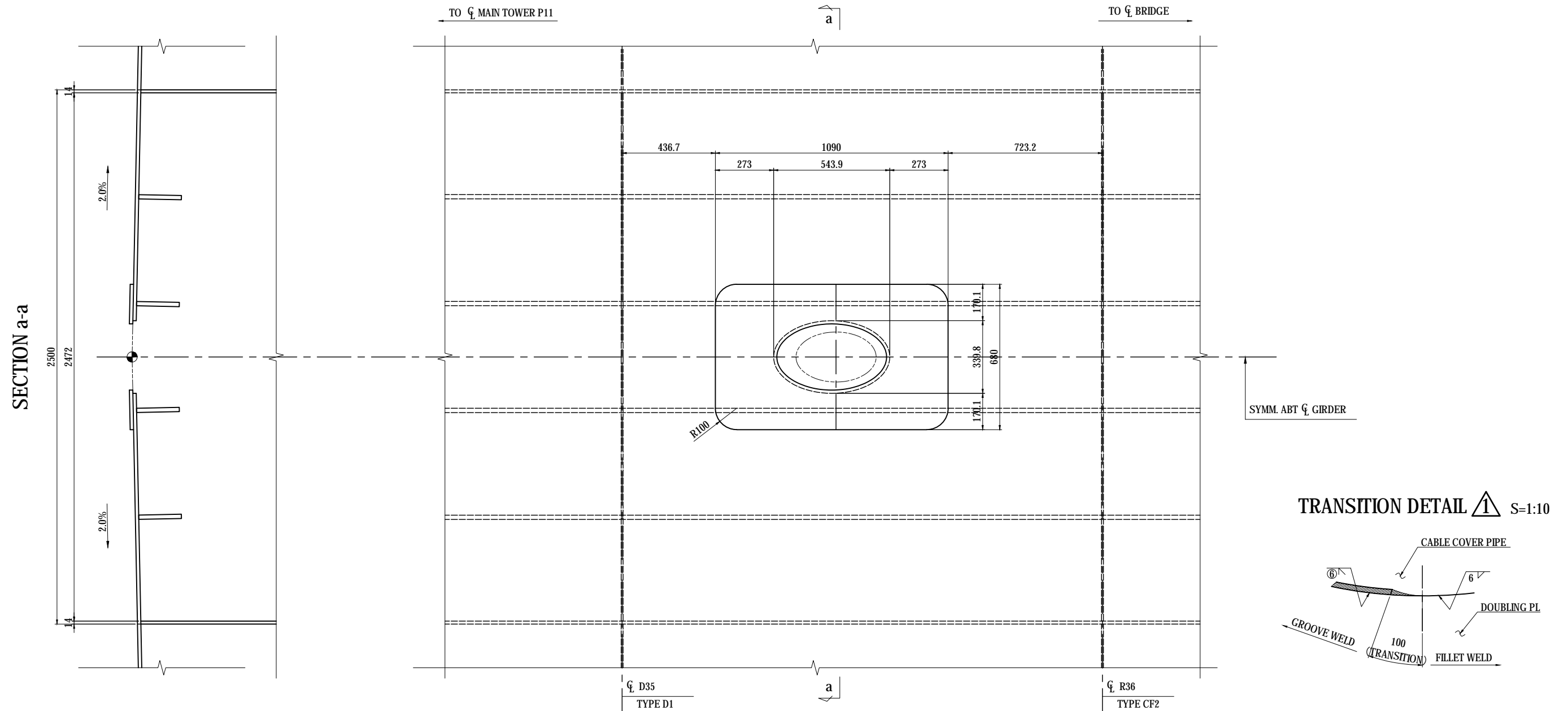


# MAIN GIRDER ANCHORAGE OF STAY CABLES

CABLE NO.C14 (2)

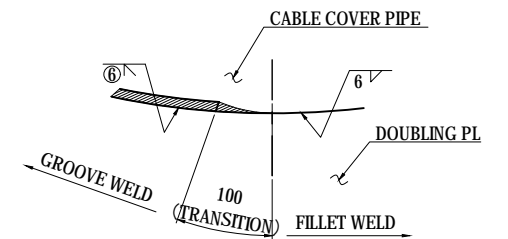
S=1:20

## SECTION A-A



- 1-PL 680 x 16 x 1090
- 1-PIPE 355.6 x 7.9 x 1044 (STK400)
- 12-RIB PL 88 x 9 x 150
- 1-FLG PL 544 x 16 x 544

### TRANSITION DETAIL $\triangle$ S=1:10



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1467.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |                                       |              |
|---|--|---|--|-------------|-------------|------|---|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C14 (2) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1468 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |   |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |   |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |   |                                       | 29. Nov.2017 |

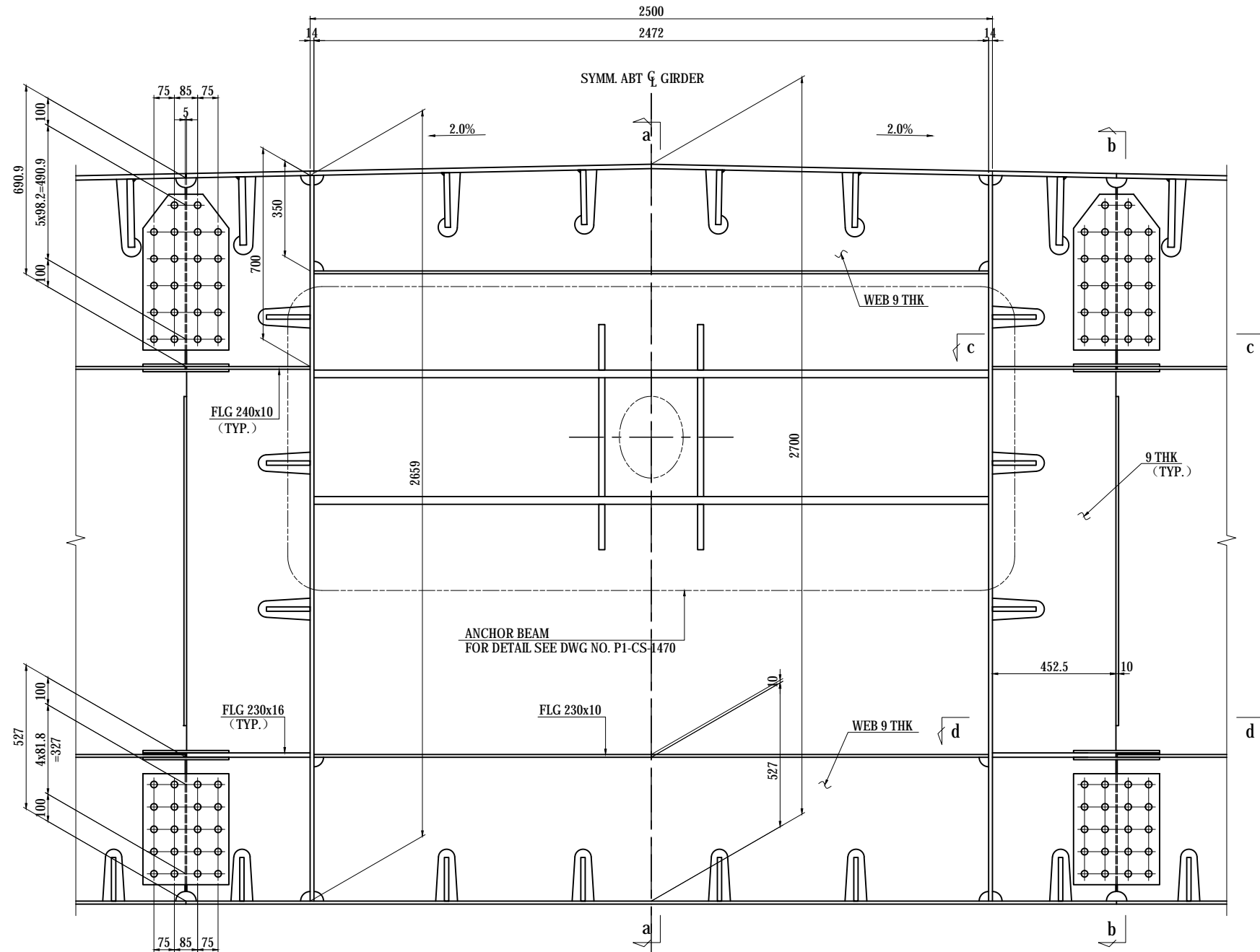
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C14 (3)

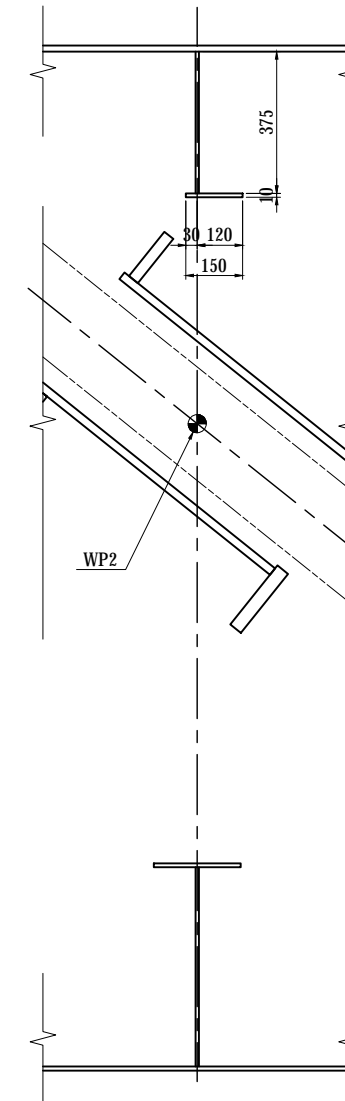
S=1:20

### CROSSFRAME R36 SECTION B-B

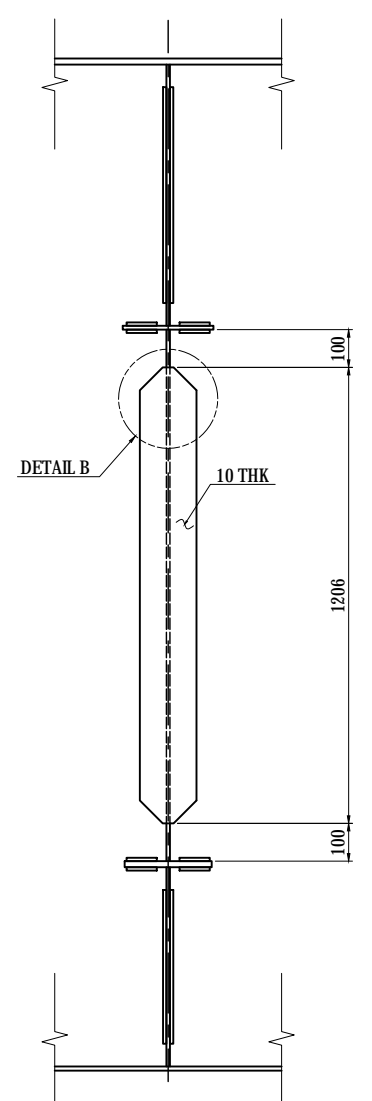
- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472



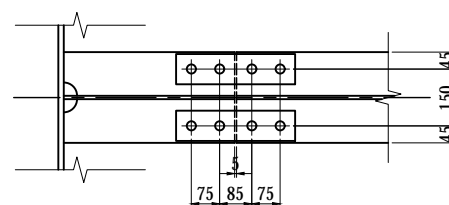
SECTION a-a



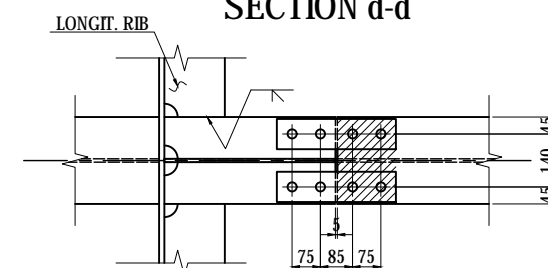
SECTION b-b



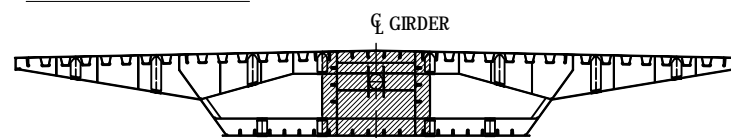
SECTION c-c



SECTION d-d



KEY DIAGRAM



#### NOTES:

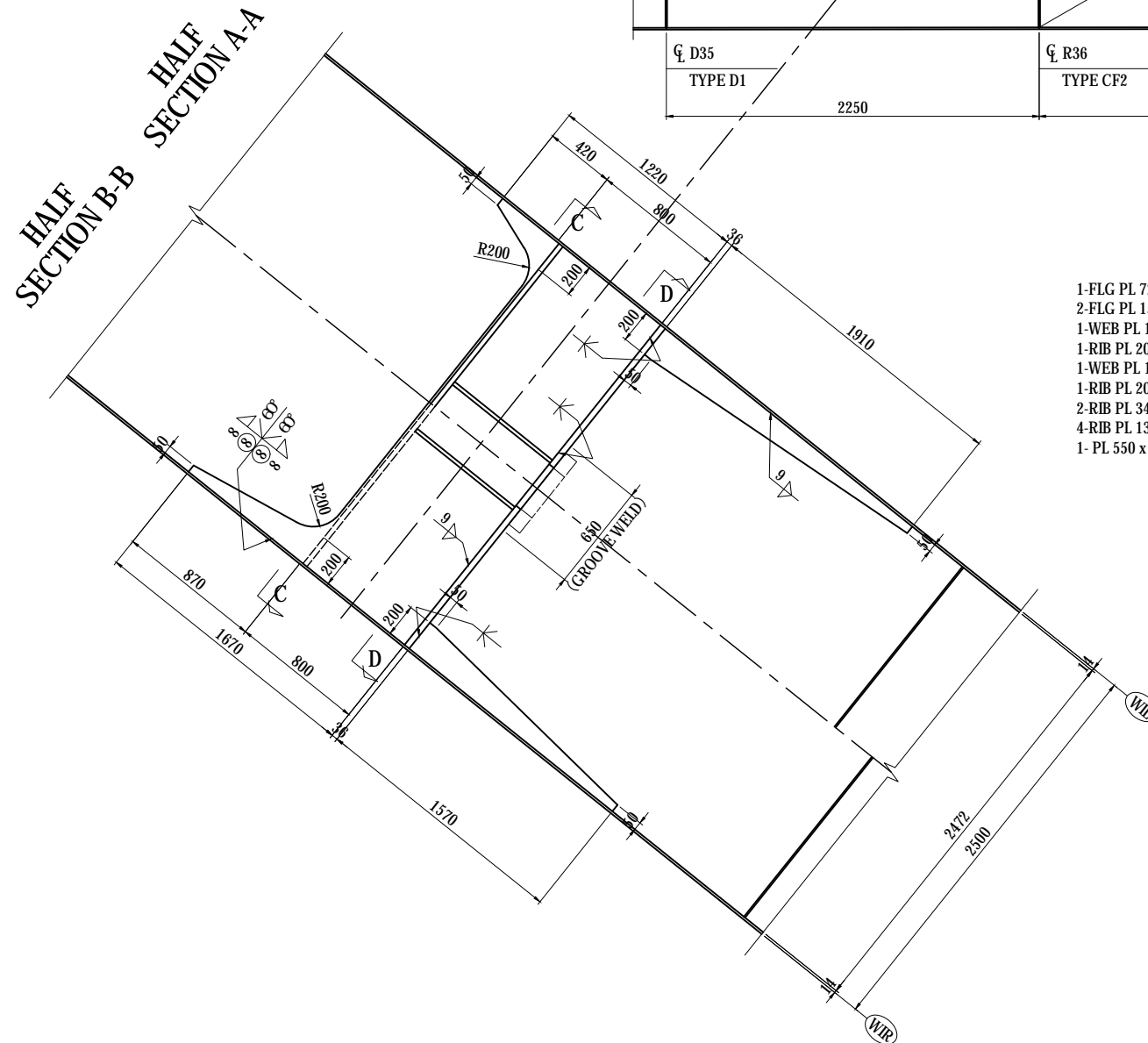
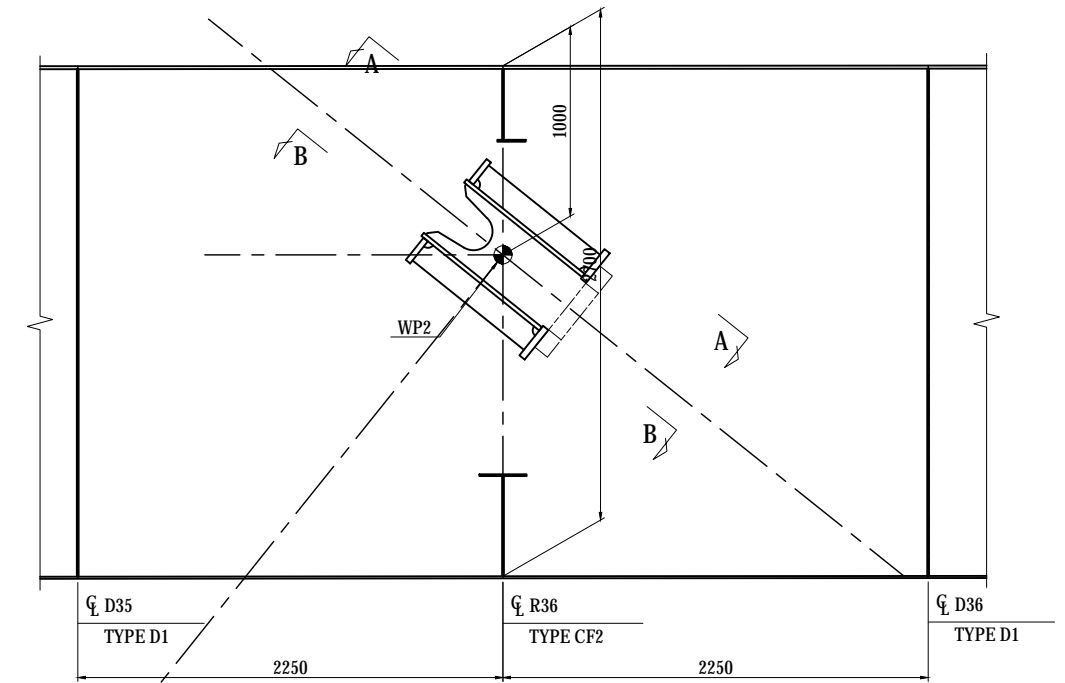
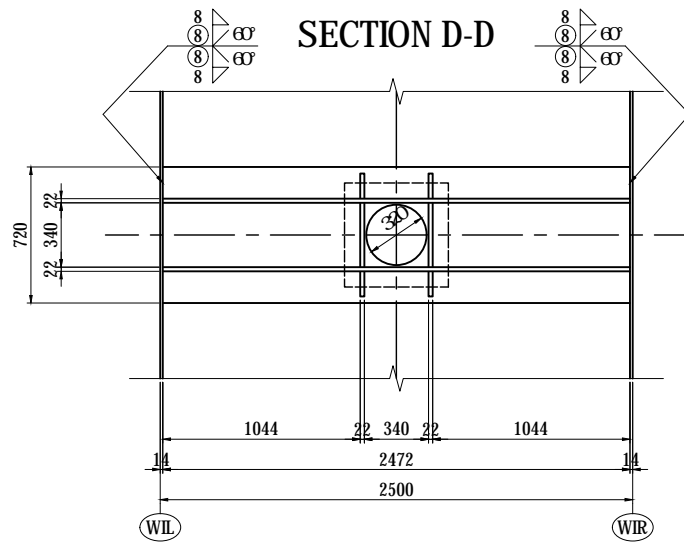
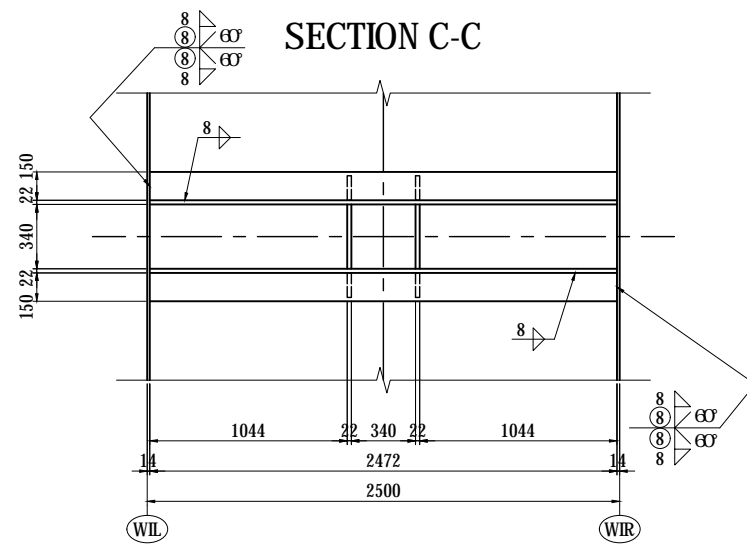
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1467.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>NIPPON ENGINEERING CONSULTANTS CO.,LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C14 (3)</b> | 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-1469 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C14 (4)

S=1:40

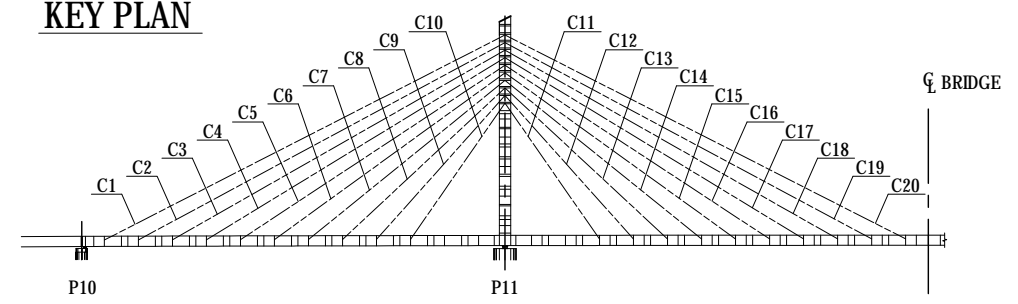
ANCHOR BEAM C14



- 1-FLG PL 720 x 36 x 2472(SM490YB)
- 2-FLG PL 150 x 30 x 2472(SM490YB)
- 1-WEB PL 1670 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1570(SM490YB)
- 1-WEB PL 1220 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1910(SM490YB)
- 2-RIB PL 340 x 22 x 785(SM490YB)
- 4-RIB PL 130 x 22 x 755(SM490YB)
- 1- PL 550 x 85 x 550(SM400C-H)

**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1469.  
 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

**KEY PLAN**



|   |  |   |  |   |                                      |  |   |                                       |
|---|--|---|--|---|--------------------------------------|--|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>PREPARED BY T.TOMODA<br>CHECKED BY T. HAYAKAWA<br>APPROVED BY Y. SANO | SIGNATURE<br>友田 隆雄<br>平川 知平<br>佐野 祐一 | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C14 (4) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1470 |
|---|--|---|--|---|--------------------------------------|--|---|---------------------------------------|

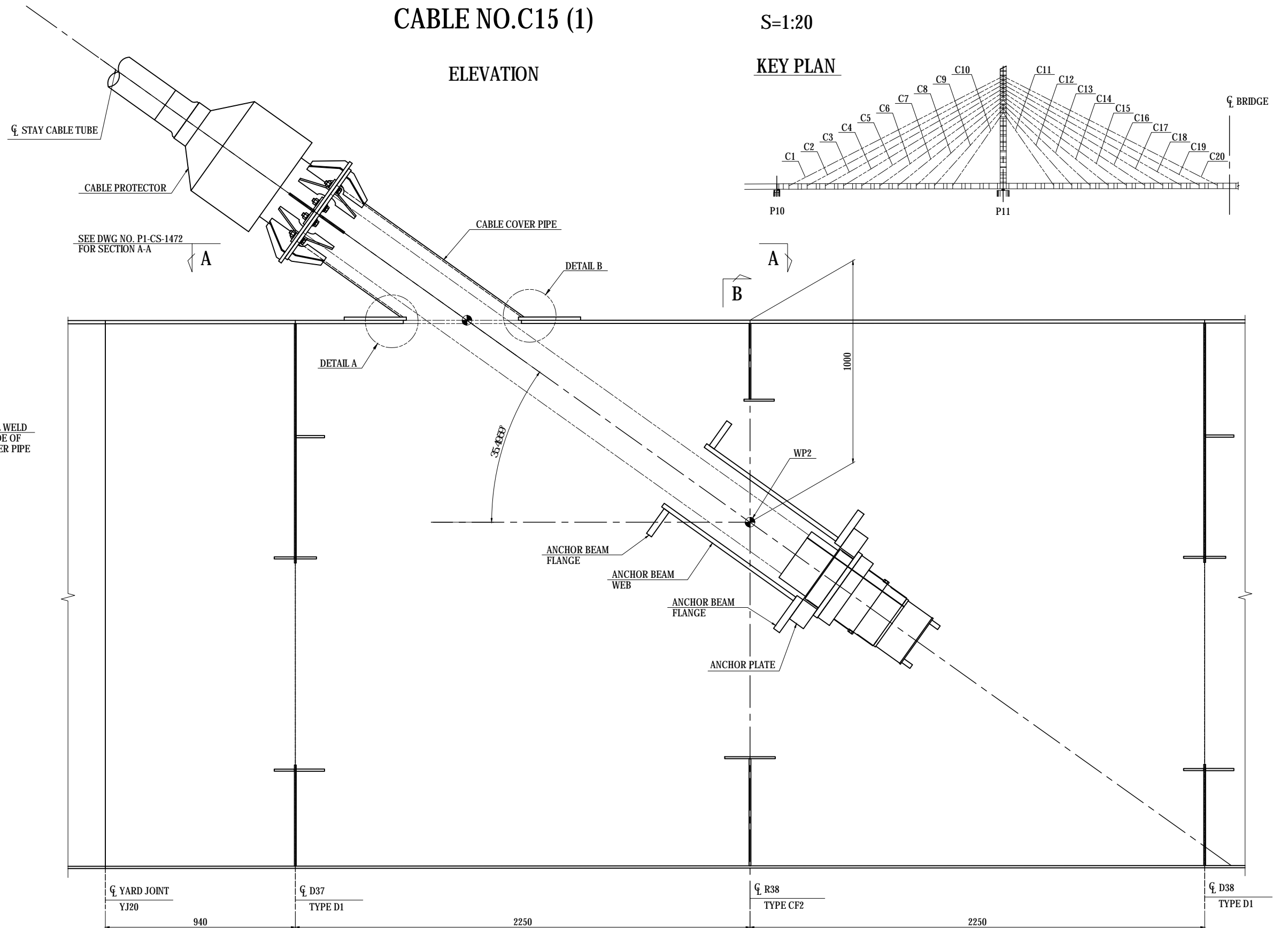
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C15 (1)

S=1:20

ELEVATION

KEY PLAN



**B**  
SEE DWG NO. P1-CS-1473  
FOR CROSSFRAME SECTION B-B

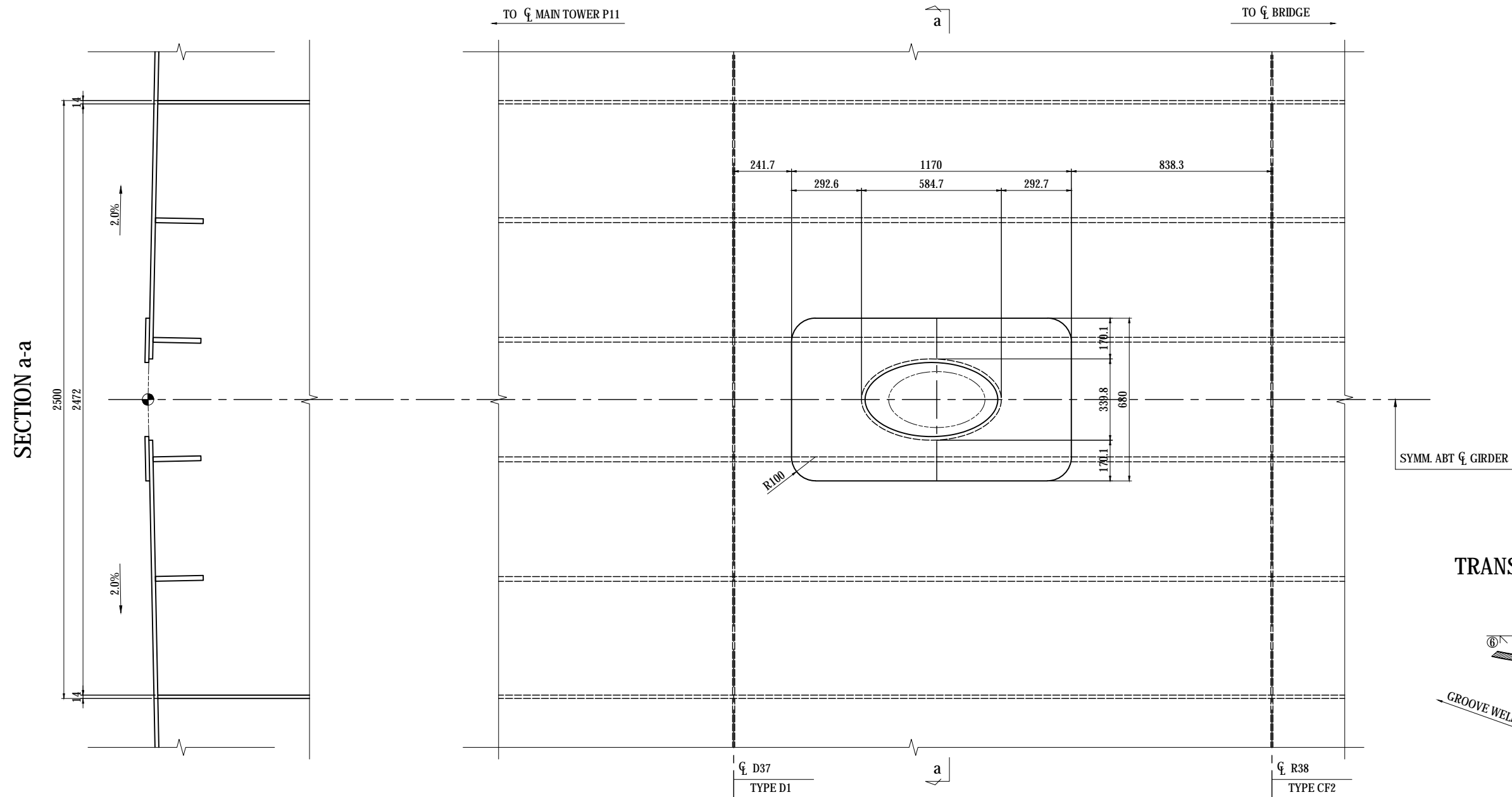
|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C15 (1)</b> | 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-1471 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

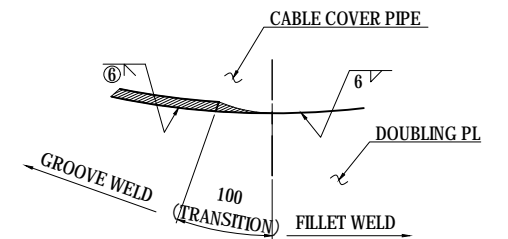
CABLE NO.C15 (2)

S=1:20

## SECTION A-A



### TRANSITION DETAIL ① S=1:10



- 1-PL 680 x 16 x 1170
- 1-PIPE 355.6 x 7.9 x 1134 (STK400)
- 12-RIB PL 88 x 9 x 150
- 1-FLG PL 544 x 16 x 544

### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1471.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| 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 | MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C15 (2) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov.2017 |   | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov.2017 |   | P1-CS-1472 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

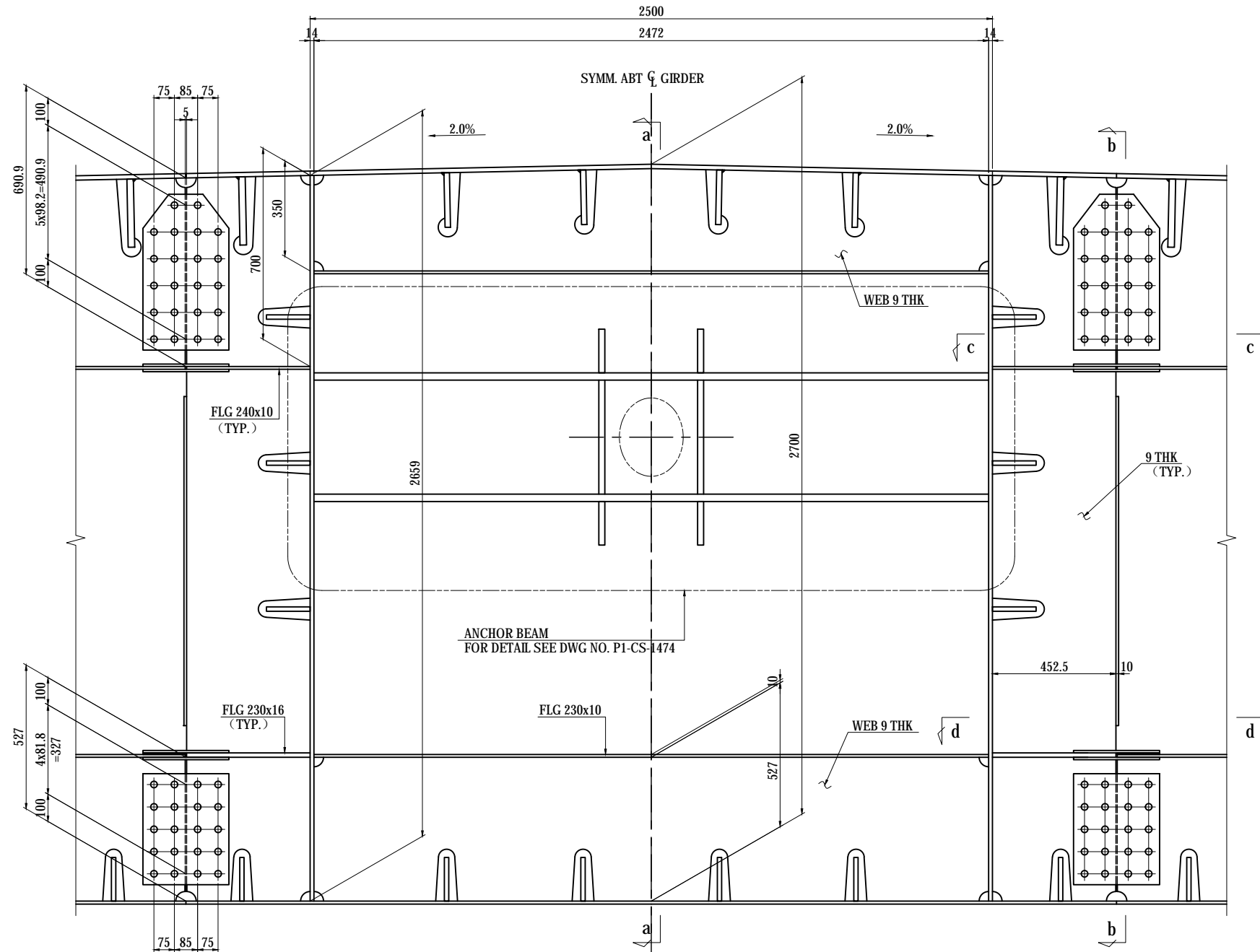
## CABLE NO.C15 (3)

S=1:20

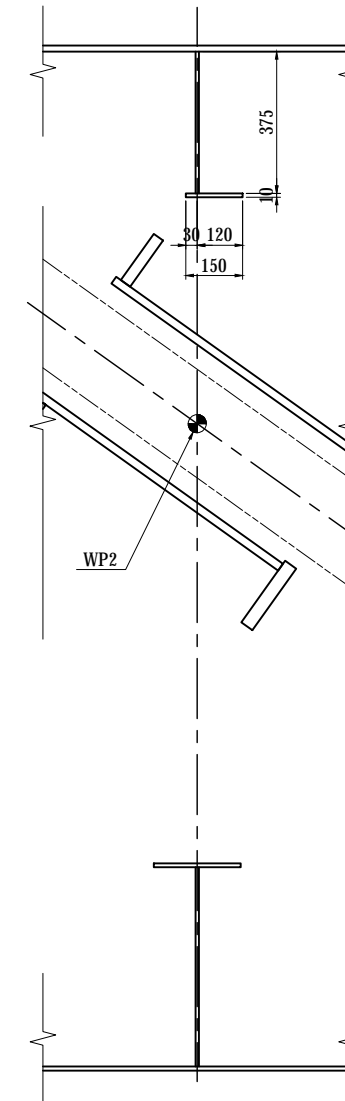
### CROSSFRAME R38

### SECTION B-B

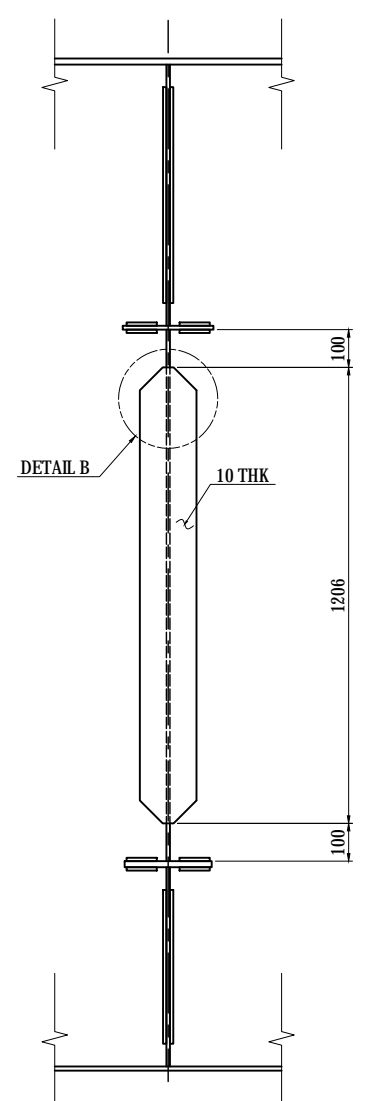
- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472



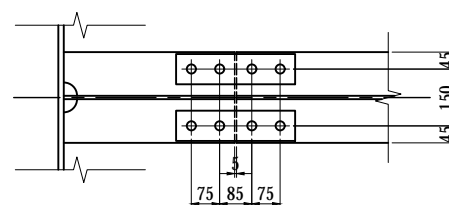
SECTION a-a



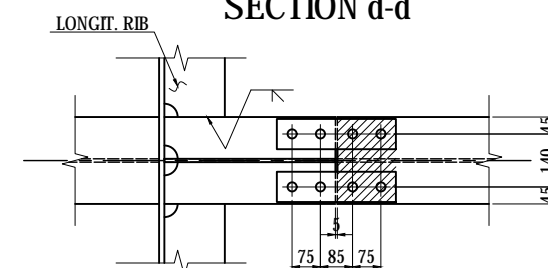
SECTION b-b



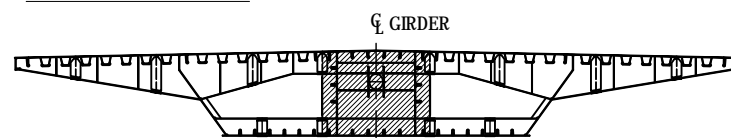
SECTION c-c



SECTION d-d



KEY DIAGRAM



#### NOTES:

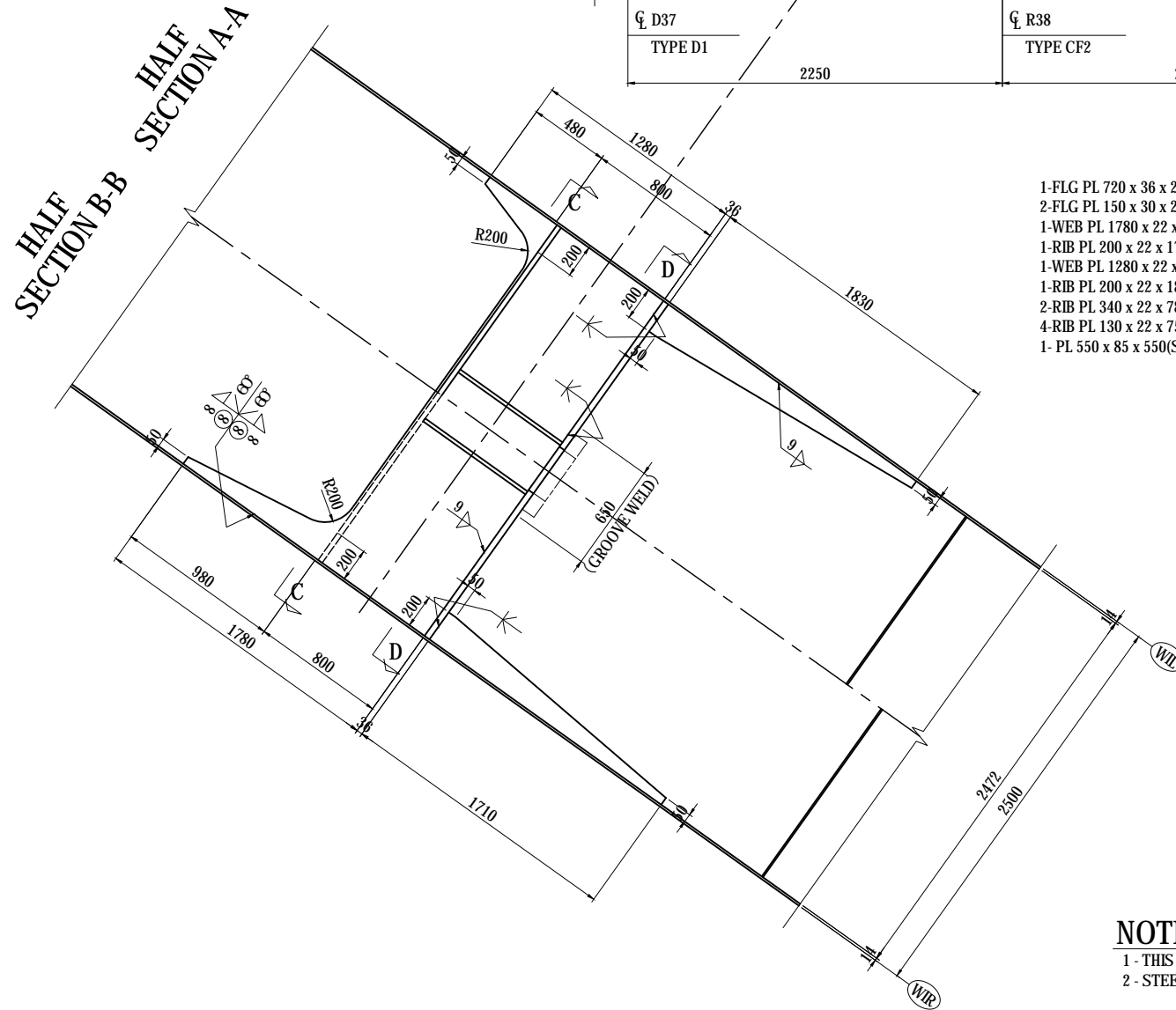
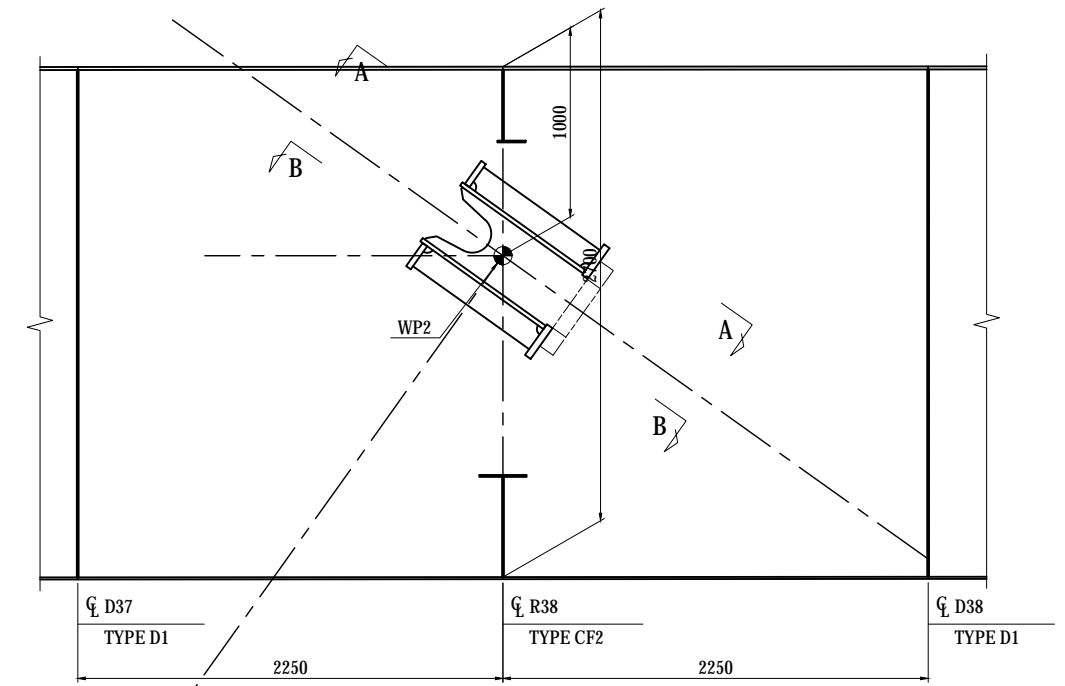
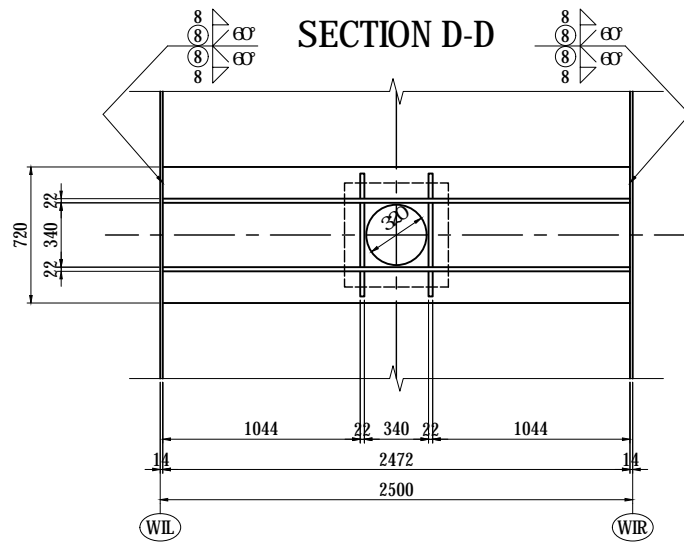
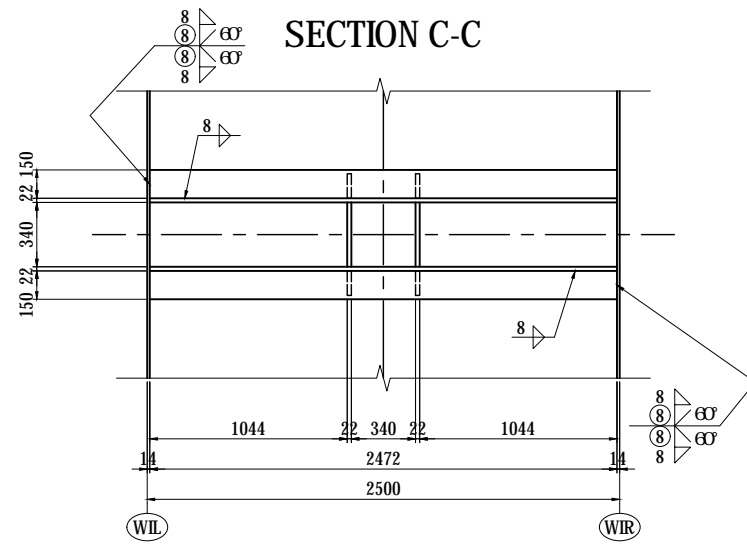
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1471.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| <p>PROJECT NAME<br/>DETAILED DESIGN ON<br/>BAGO RIVER BRIDGE<br/>CONSTRUCTION PROJECT</p> | <p>FINANCED BY<br/> JAPAN INTERNATIONAL<br/>COOPERATION AGENCY</p> | <p>COUNTERPART<br/> REPUBLIC OF THE UNION OF MYANMAR<br/>MINISTRY OF CONSTRUCTION<br/>DEPARTMENT OF BRIDGE</p> | <p>JICA STUDY TEAM<br/> NIPPON KOEI CO., LTD.<br/> ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br/> METROPOLITAN EXPRESSWAY COMPANY LIMITED<br/> CHODAI CO., LTD.<br/> NIPPON ENGINEERING CONSULTANTS CO., LTD.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | <p>DRAWING TITLE<br/><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C15 (3)</b></p> | <p>PACKAGE<br/>1<br/>DWG No.<br/>P1-CS-1473</p> |
|---|--|--|---|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|---|---|
| NAME  | SIGNATURE  | DATE   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |   |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |   |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |   |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |   |

# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C15 (4)

S=1:40

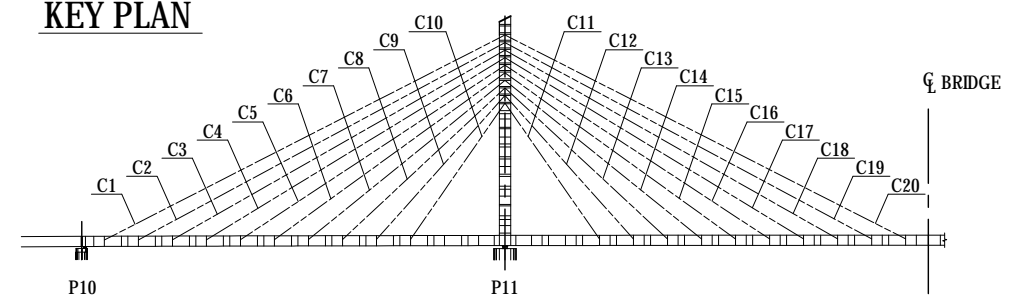
ANCHOR BEAM C15



- 1-FLG PL 720 x 36 x 2472(SM490YB)
- 2-FLG PL 150 x 30 x 2472(SM490YB)
- 1-WEB PL 1780 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1710(SM490YB)
- 1-WEB PL 1280 x 22 x 2472(SM490YB)
- 1-RIB PL 200 x 22 x 1830(SM490YB)
- 2-RIB PL 340 x 22 x 785(SM490YB)
- 4-RIB PL 130 x 22 x 755(SM490YB)
- 1- PL 550 x 85 x 550(SM400C-H)

**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1473.  
 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

**KEY PLAN**



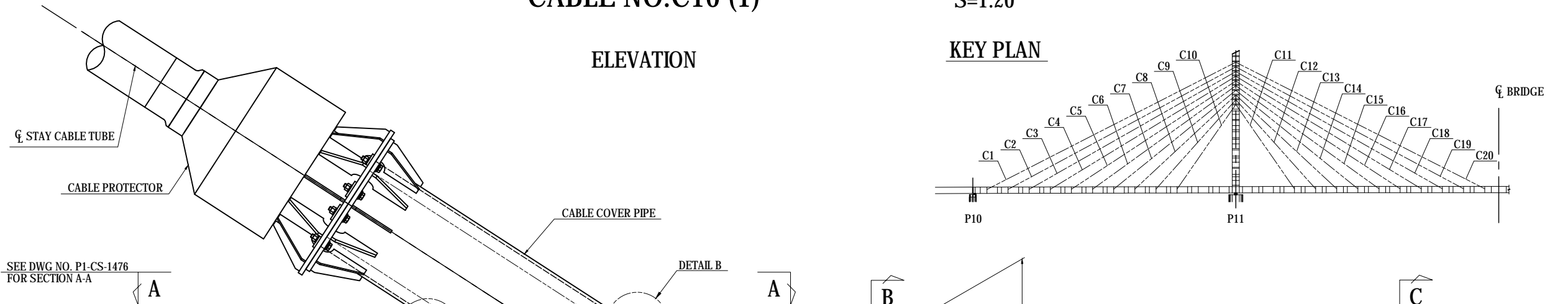
|   |  |   |  |   |               |  |   |                                       |
|---|--|---|--|---|---------------|--|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>PREPARED BY T.TOMODA<br>CHECKED BY T. HAYAKAWA<br>APPROVED BY Y. SANO | SIGNATURE<br> | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C15 (4) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1474 |
|---|--|---|--|---|---------------|--|---|---------------------------------------|

# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C16 (1)

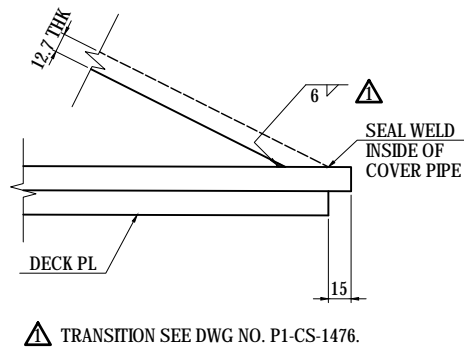
S=1:20

ELEVATION

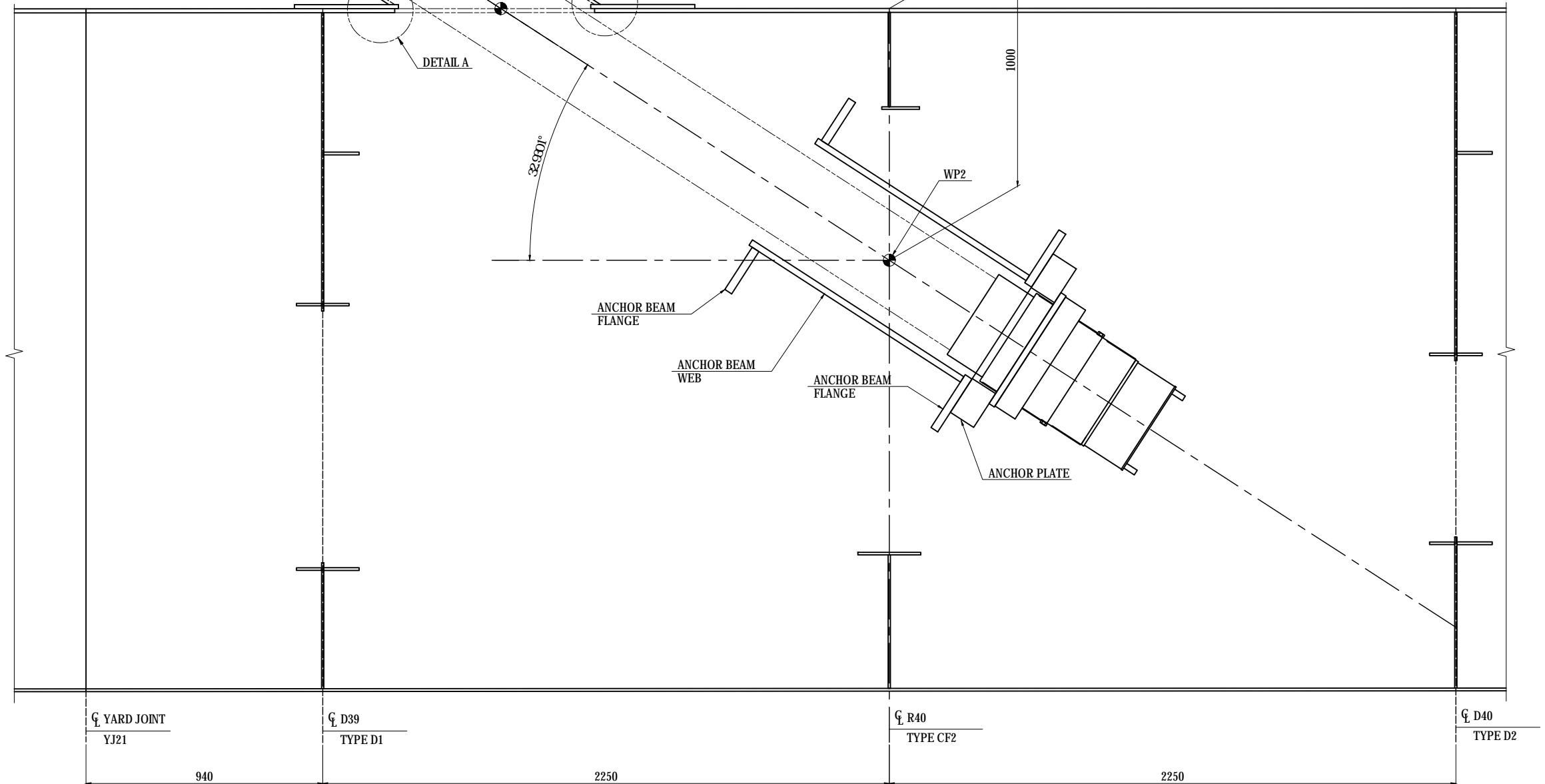
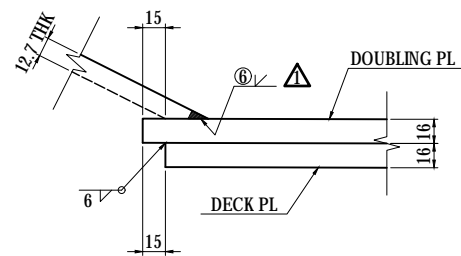
KEY PLAN



DETAIL A S=1:5



DETAIL B S=1:5



**B**  
SEE DWG NO. P1-CS-1477  
FOR CROSSFRAME SECTION C-C

**C**  
SEE DWG NO. P1-CS-1478  
FOR DIAPHRAGM SECTION D-D

| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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<br><h3 style="text-align: center;">MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C16 (1)</h3> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1475 |
|---|--|---|--|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|---|---------------------------------------|
|   | NAME   | SIGNATURE   | DATE   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |                                       |
| PREPARED BY   | T.TOMODA   |   | 27. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |                                       |
| CHECKED BY  | T. HAYAKAWA  |   | 28. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |                                       |
| APPROVED BY   | Y. SANO  |   | 29. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |                                       |

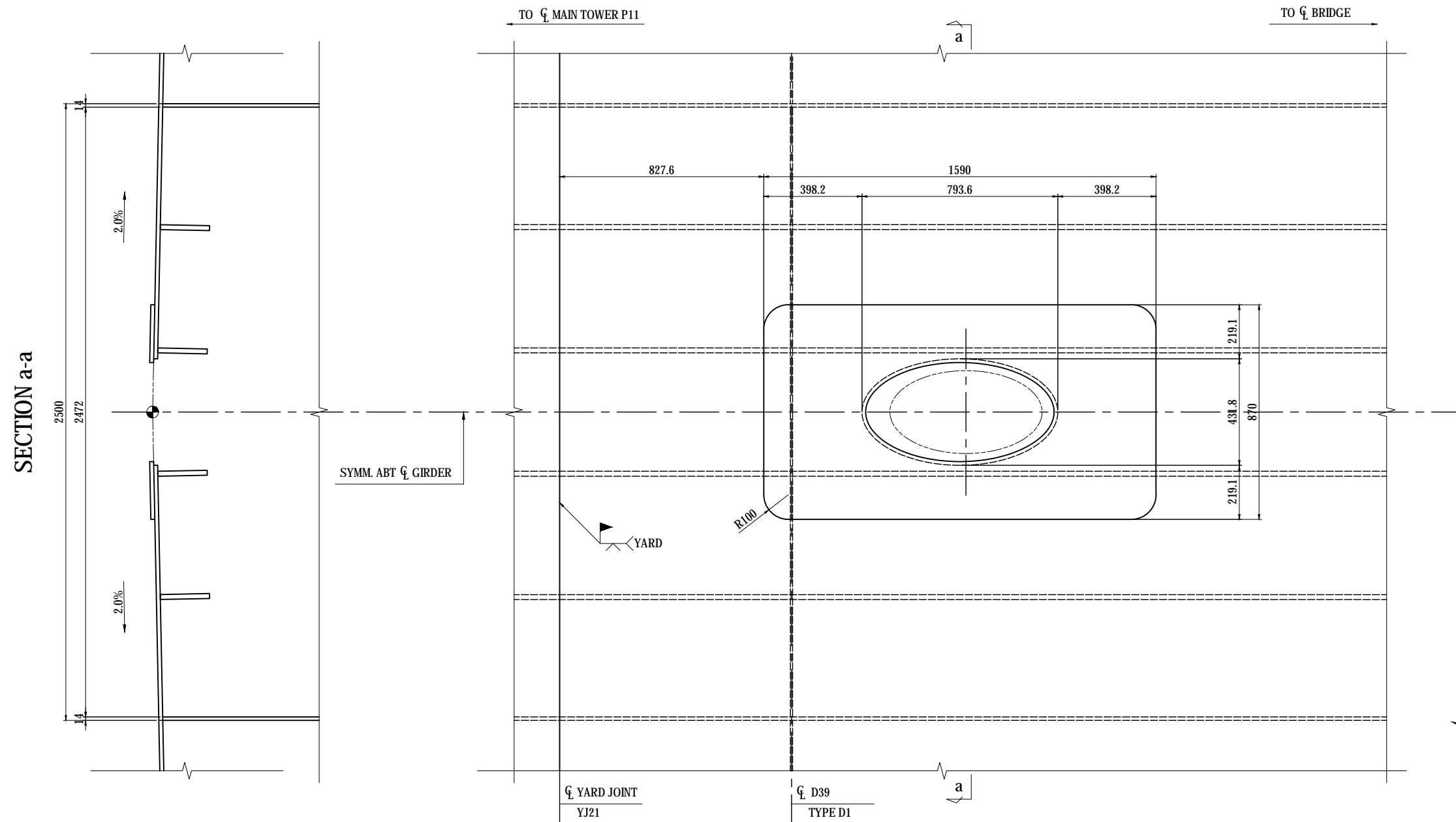


# MAIN GIRDER ANCHORAGE OF STAY CABLES

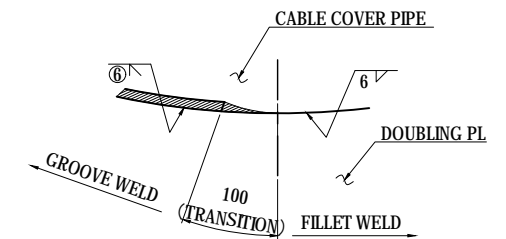
CABLE NO.C16 (2)

S=1:20

## SECTION A-A



### TRANSITION DETAIL ① S=1:10



- 1-PL 870 x 16 x 1590
- 1-PIPE 457.2 x 12.7 x 1298 (STK400)
- 12-RIB PL 95 x 12 x 200
- 1-FLG PL 664 x 19 x 664

### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1475.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| 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 | MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C16 (2) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov.2017 |   | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov.2017 |   | P1-CS-1476 |

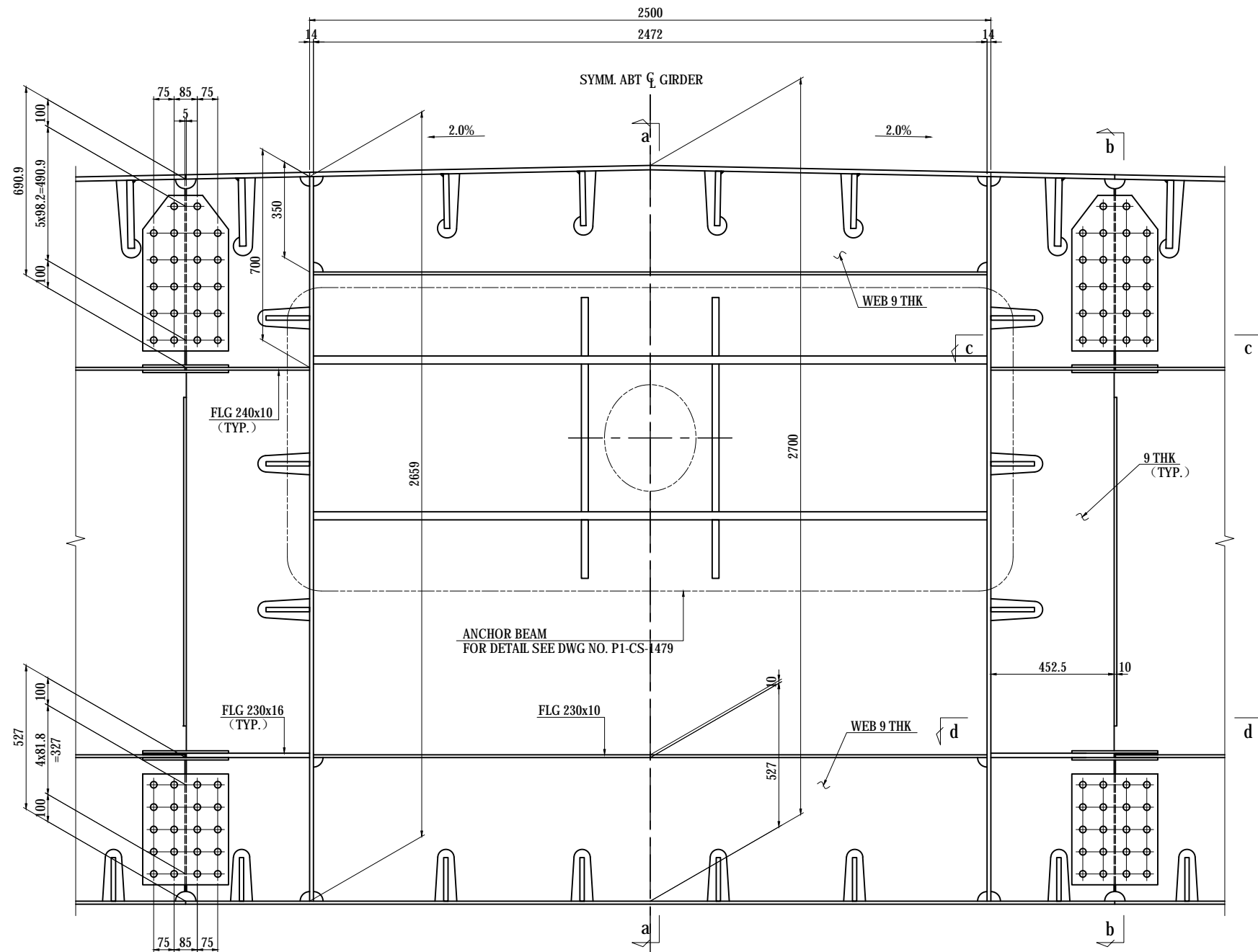
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C16 (3)

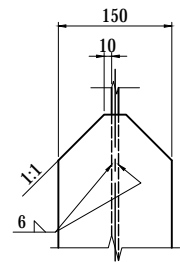
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### CROSSFRAME R40 SECTION B-B

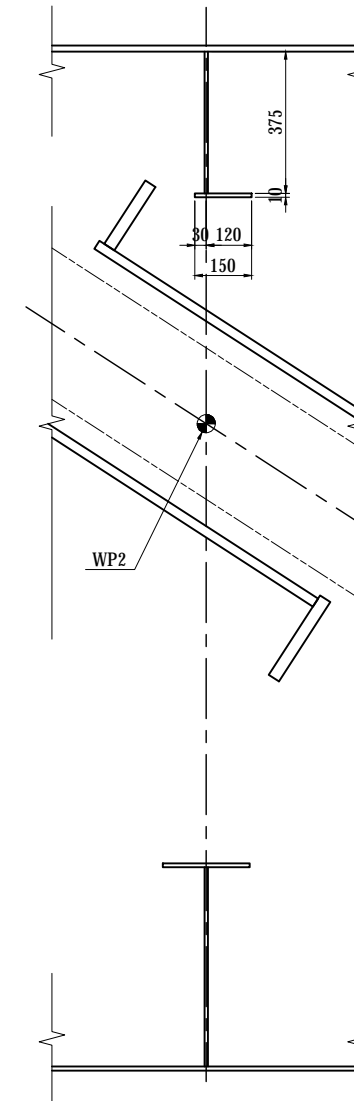
- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472



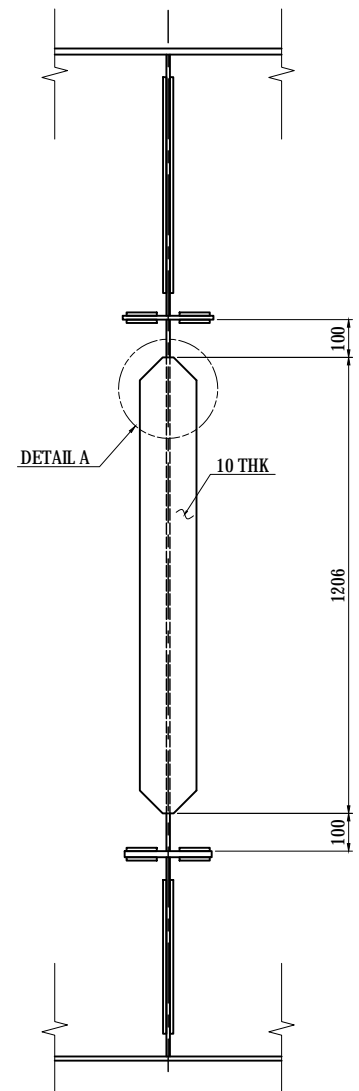
DETAIL A S=1:10



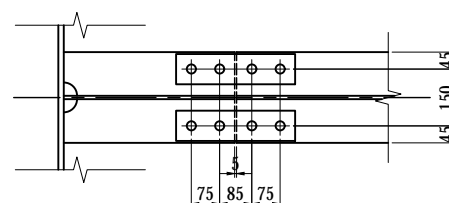
SECTION a-a



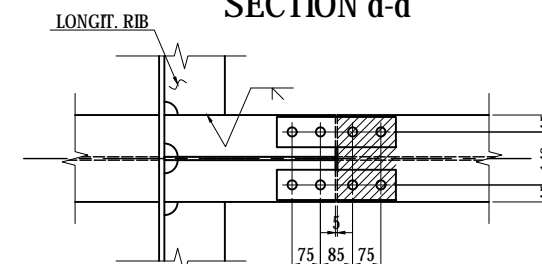
SECTION b-b



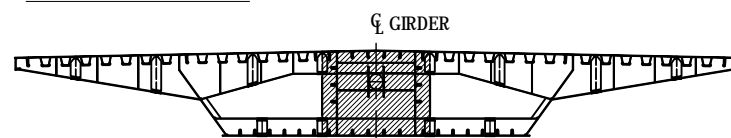
SECTION c-c



SECTION d-d



KEY DIAGRAM



#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1475.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C16 (3)</b> | 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-1477 |

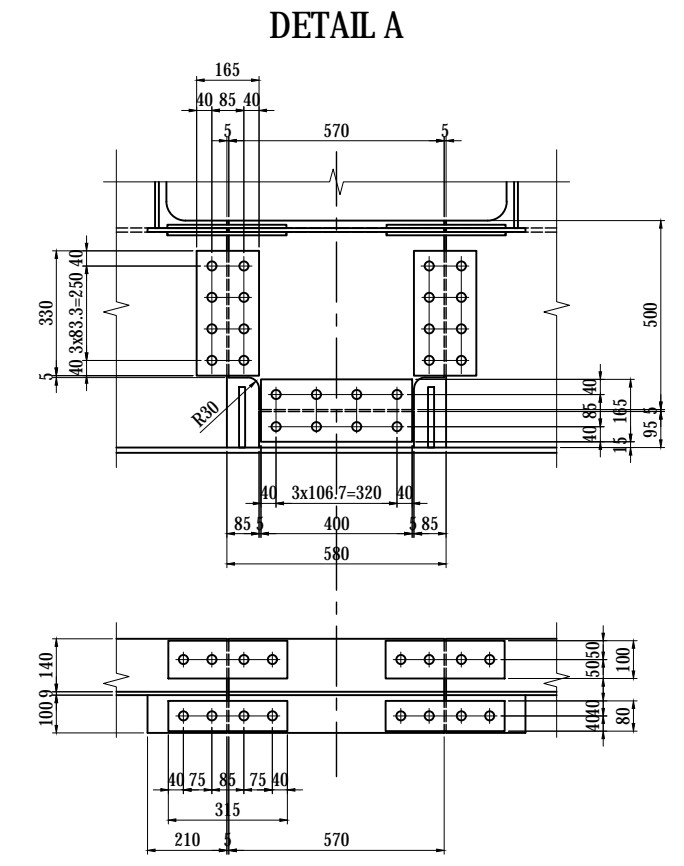
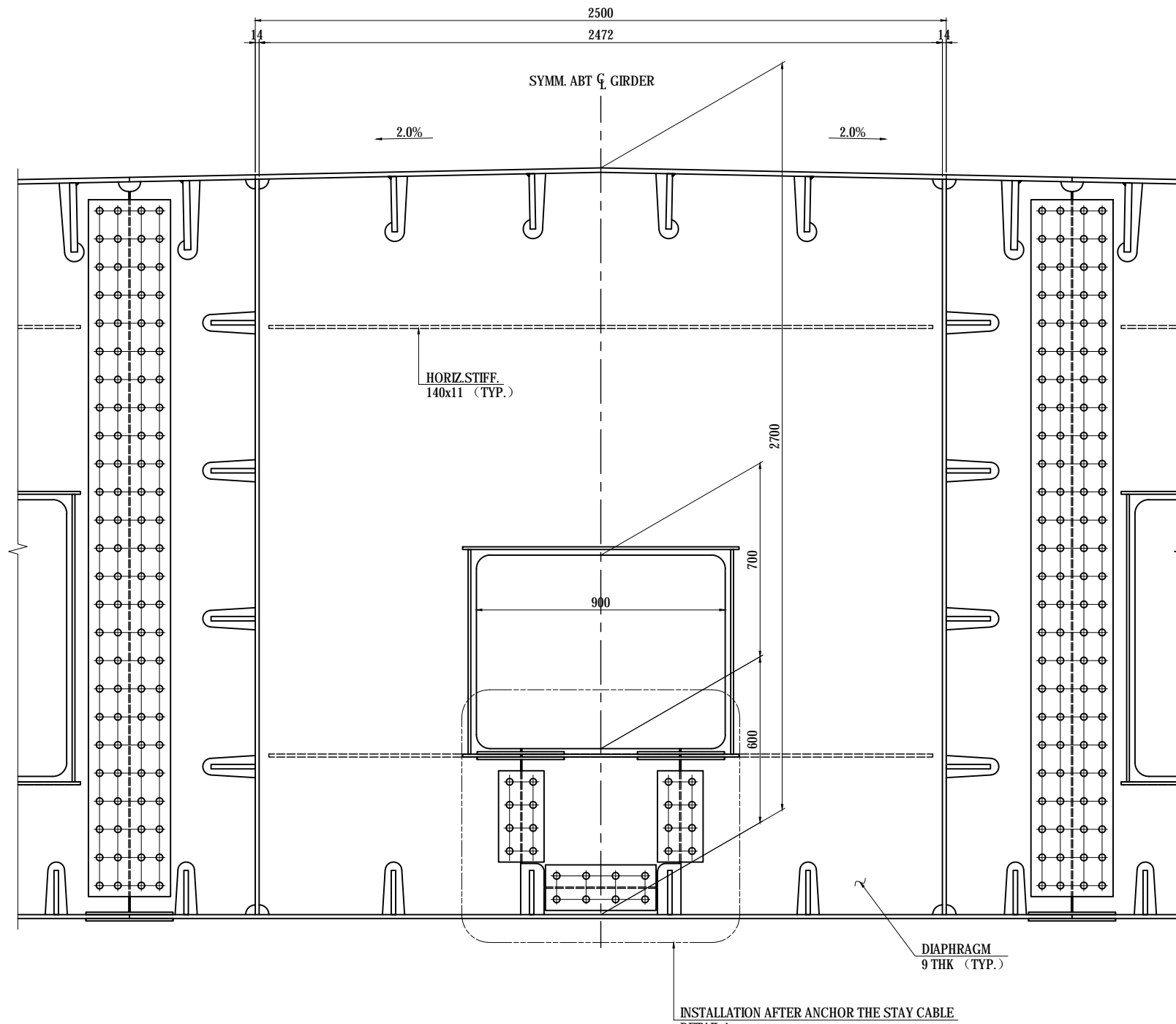
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C16 (4)

S=1:20

### DIAPHRAGM D40

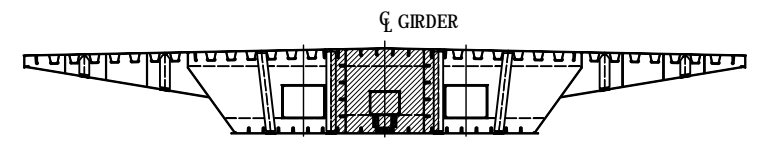
### SECTION C-C



- 1-PL 95 x 9 x 410
- 1-PL 500 x 9 x 570
- 2-SPL PL 165 x 9 x 400 (SS400)
- 8-TCB M22 x 65 (S10T)
- 4-SPL PL 165 x 9 x 330 (SS400)
- 16-TCB M22 x 65 (S10T)
- 1-HSTIF PL 140 x 11 x 570
- 4-SPL PL 100 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)
- 1-COLLAR PL 100 x 10 x 570
- 2-COLLAR PL 100 x 10 x 210
- 4-SPL PL 80 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)

**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1475.  
 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107  
 DIAPHRAGM TYPE D1.  
 3 - STEEL GRADE OF STEEL PLATE  
 UNLESS NOTE : SM400A

### KEY DIAGRAM



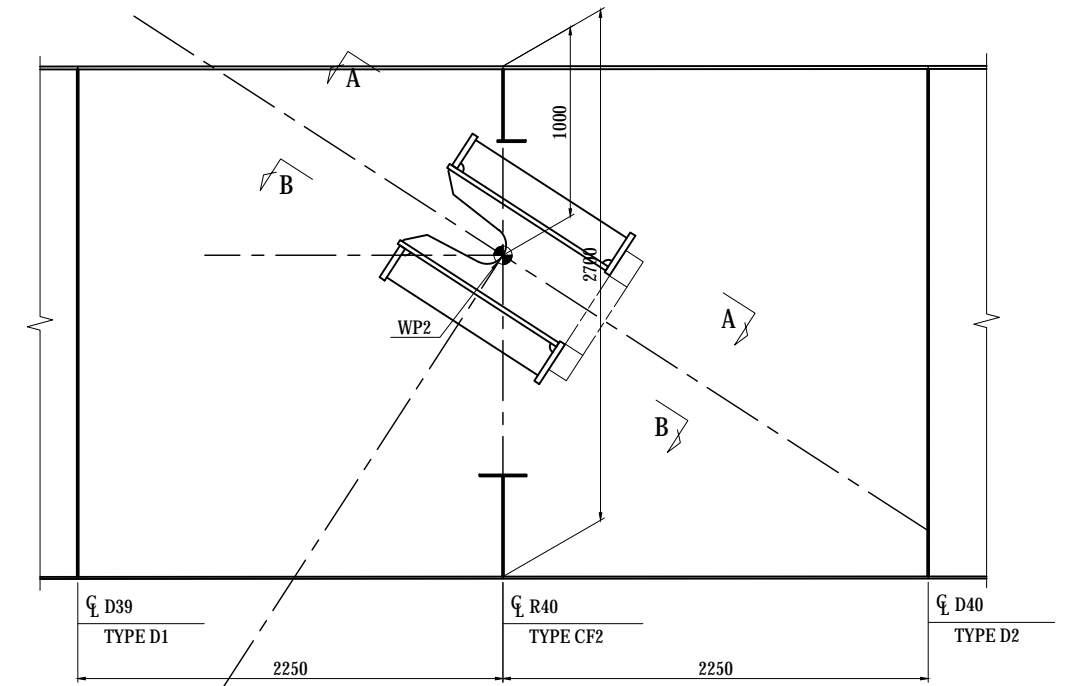
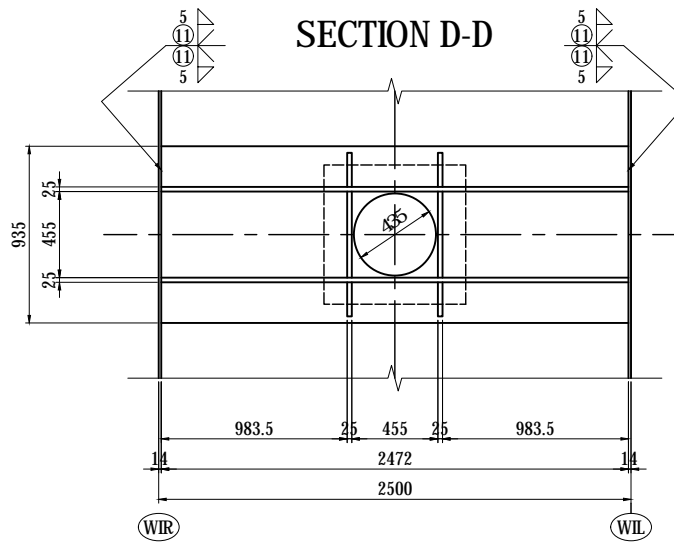
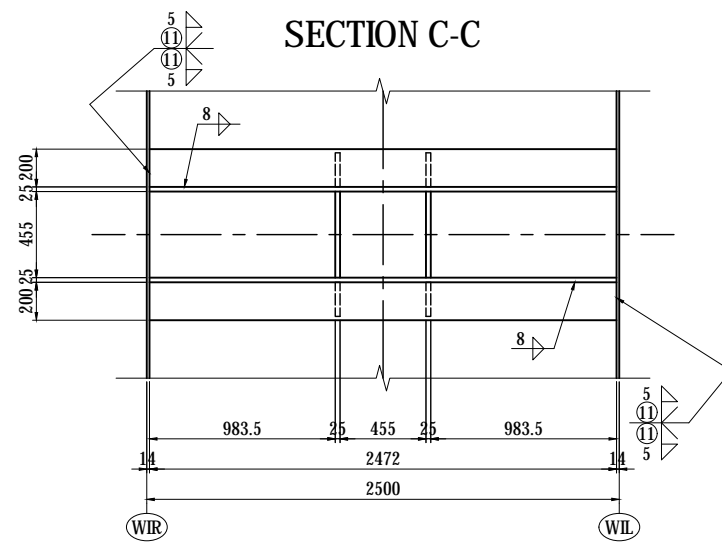
- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 1-HSTIF PL 140 x 11 x 2402
- 2-HSTIF PL 140 x 11 x 911
- 2-COLLAR PL 100 x 10 x 1000
- 4-COLLAR PL 90 x 10 x 740

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C16 (4) | 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-1478 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C16 (5)

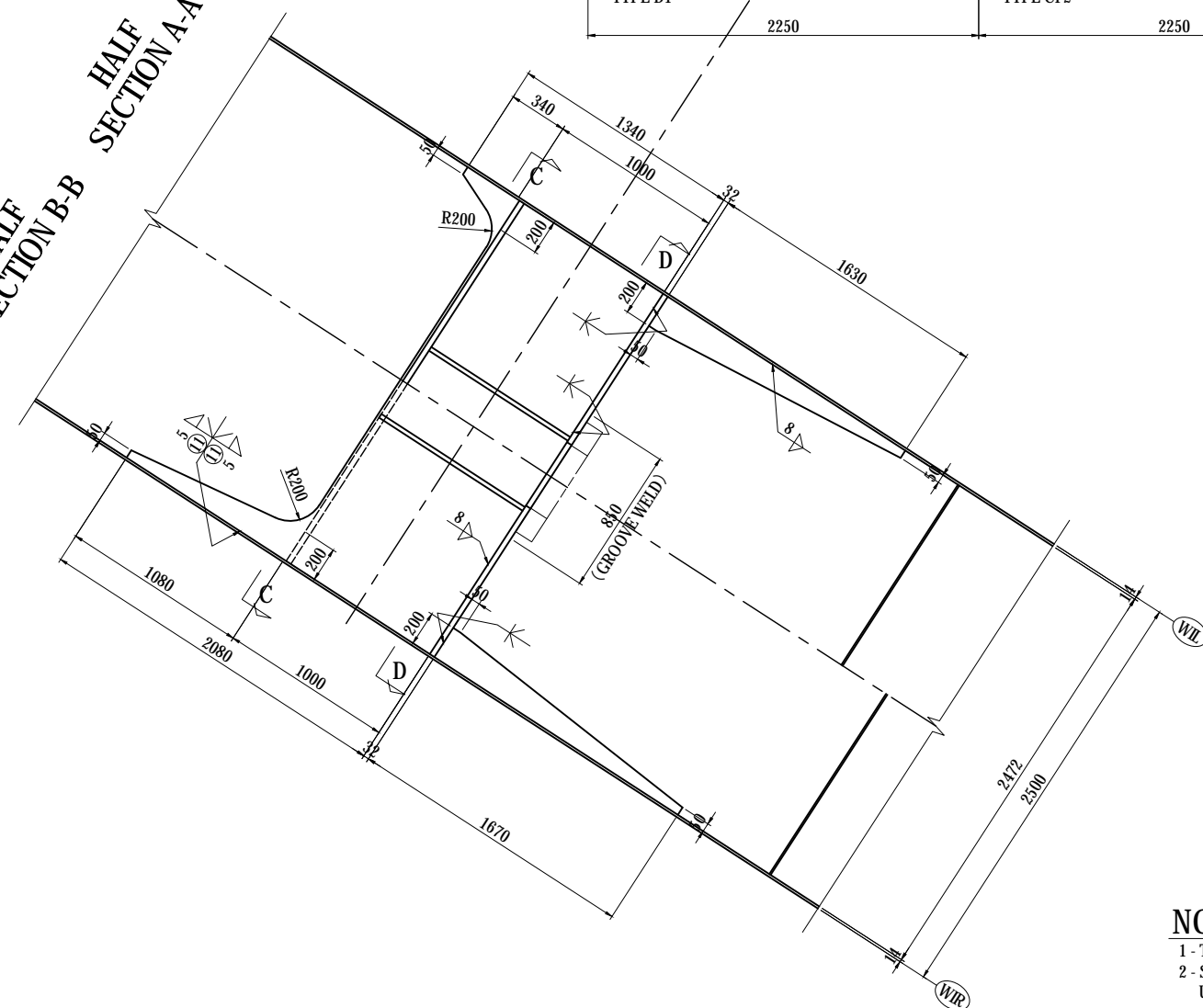
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ANCHOR BEAM C16

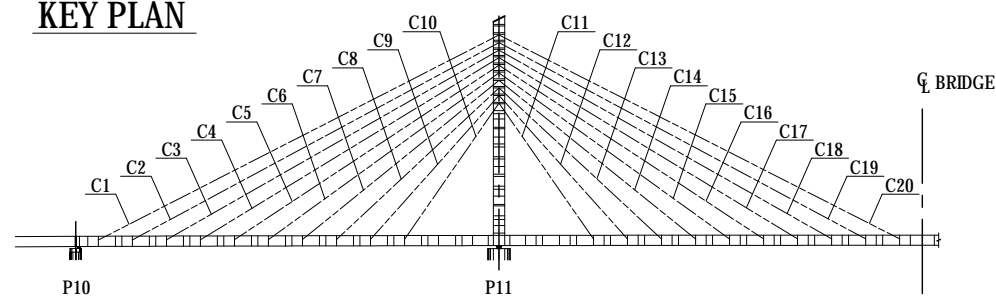


- 1-FLG PL 935 x 32 x 2472(SM490YB)
- 2-FLG PL 200 x 32 x 2472(SM490YB)
- 1-WEB PL 2080 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1670(SM490YB)
- 1-WEB PL 1340 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1630(SM490YB)
- 2-RIB PL 455 x 25 x 985(SM490YB)
- 4-RIB PL 180 x 25 x 953(SM490YB)
- 1- PL 750 x 110 x 750(SM400C-H)

HALF SECTION B-B  
 HALF SECTION A-A



## KEY PLAN



- NOTES:**
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1477.
  - 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>NIPPON ENGINEERING CONSULTANTS CO.,LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | DRAWING TITLE<br><h3 style="text-align: center;">MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C16 (5)</h3> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1479 |
|---|--|---|--|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|---|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |                                       |

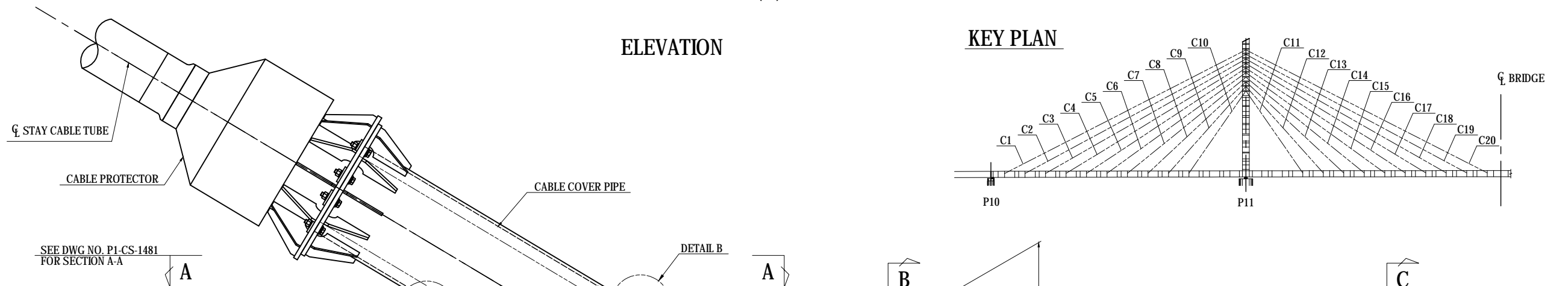
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C17 (1)

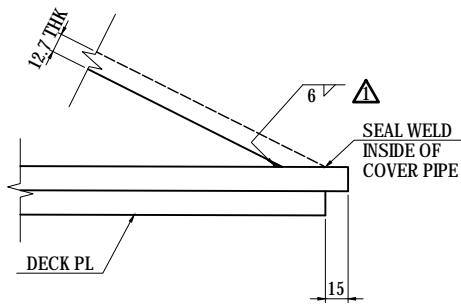
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ELEVATION

KEY PLAN

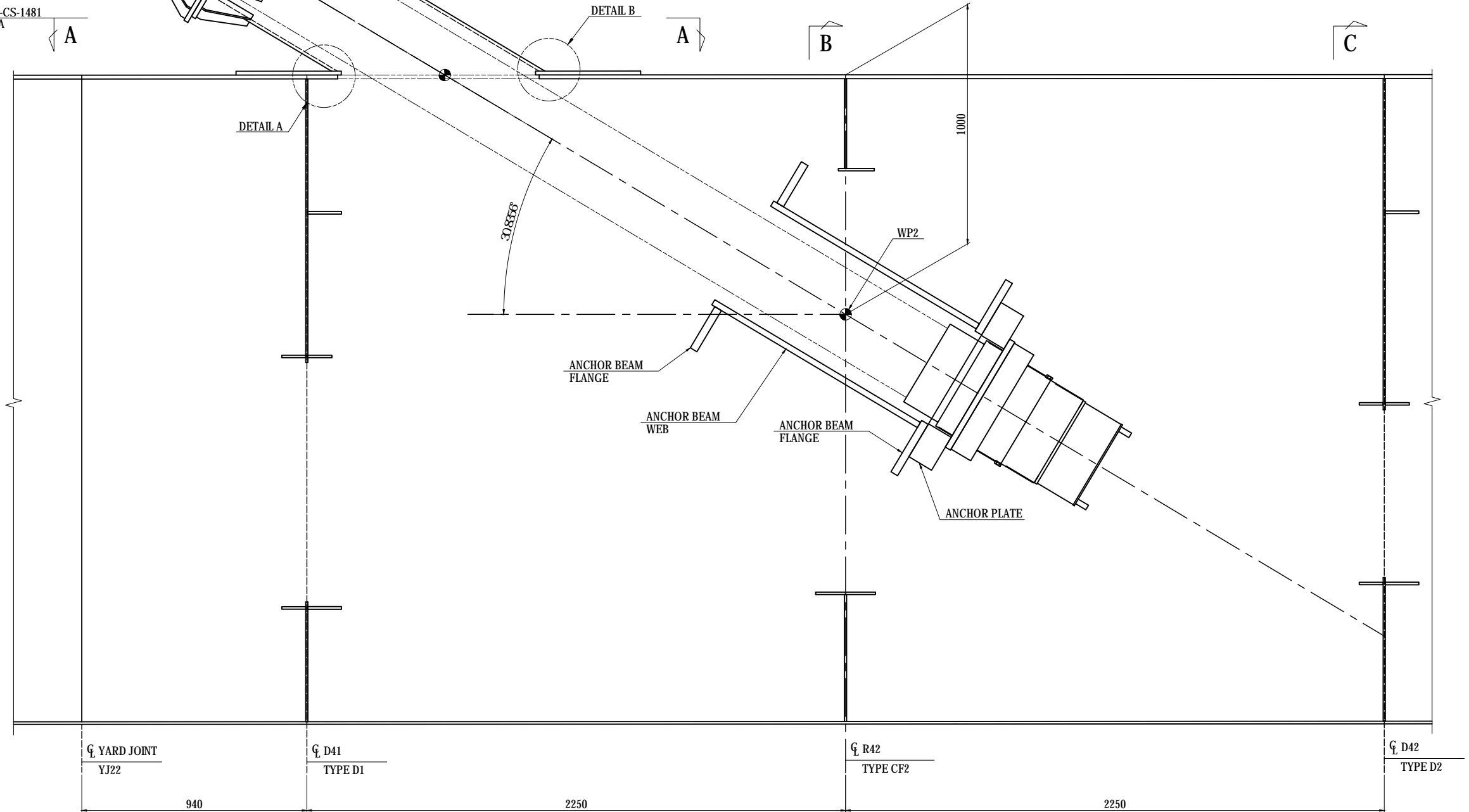
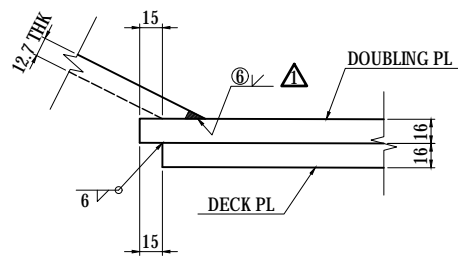


DETAIL A S=1:5



△ TRANSITION SEE DWG NO. P1-CS-1481.

DETAIL B S=1:5



CL YARD JOINT  
YJ22

CL D41  
TYPE D1

CL R42  
TYPE CF2

CL D42  
TYPE D2

**B**  
SEE DWG NO. P1-CS-1482  
FOR DIAPHRAGM SECTION B-B

**C**  
SEE DWG NO. P1-CS-1483  
FOR CROSSFRAME SECTION C-C

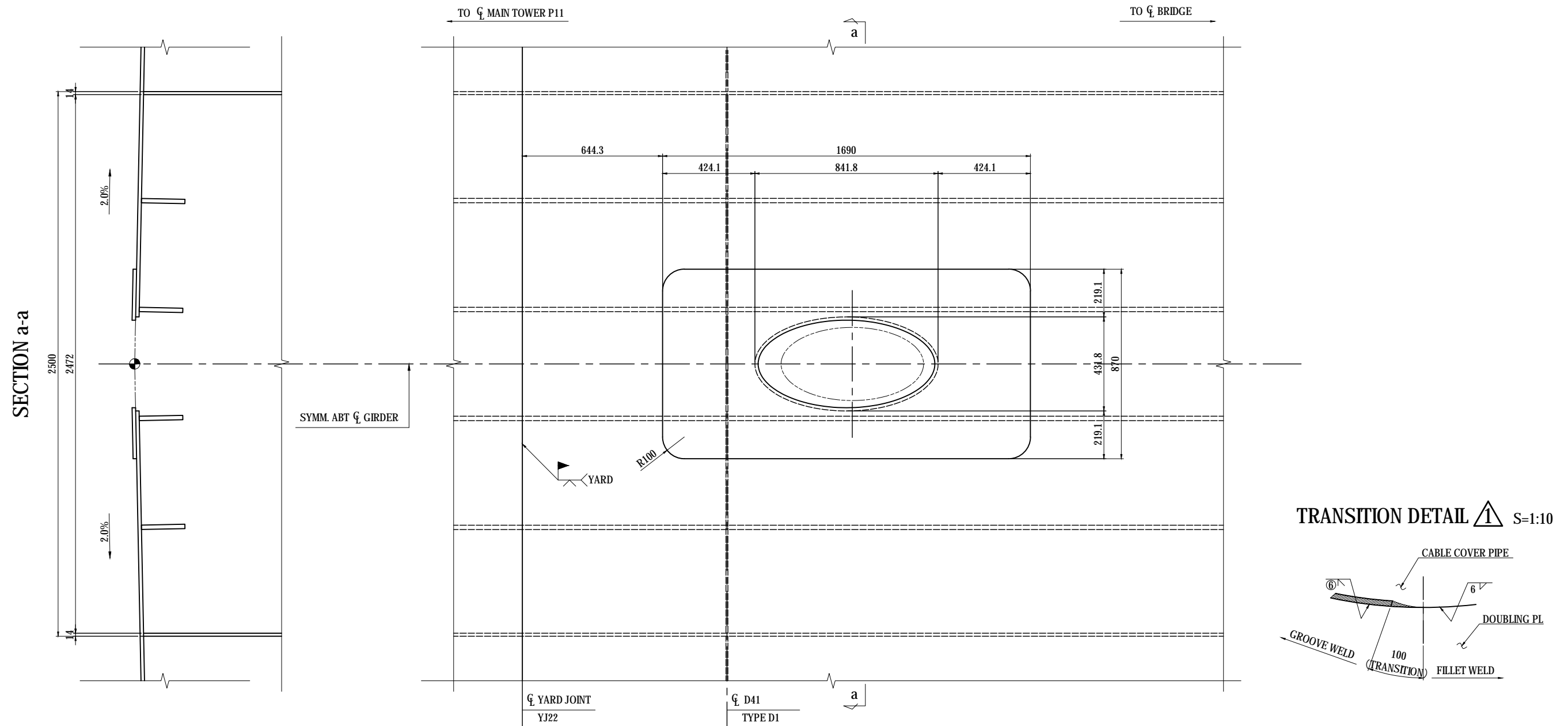
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|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C17 (1)</b> | 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-1480 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

CABLE NO.C17 (2)

S=1:20

## SECTION A-A



- 1-PL 870 x 16 x 1690
- 1-PIPE 457.2 x 12.7 x 1385 (STK400)
- 12-RIB PL 95 x 12 x 200
- 1-FLG PL 664 x 19 x 664

### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1480.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |   |   |  |             |             |       |   |              |            |
|---|---|---|--|-------------|-------------|-------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>jica JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C17 (2) | PACKAGE      |            |
|   |   |   |  | PREPARED BY | T.TOMODA    | 友田 隆雄 |   | 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-1481 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

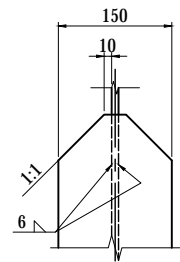
## CABLE NO.C17 (3)

S=1:20

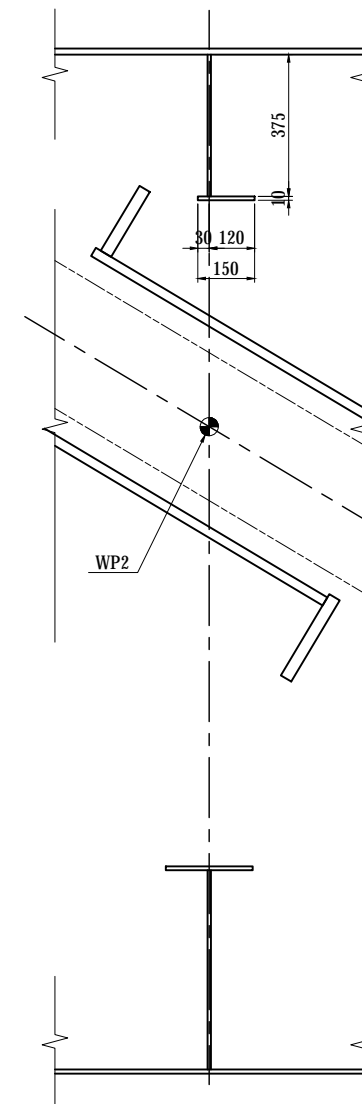
### CROSSFRAME R42 SECTION B-B

- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472

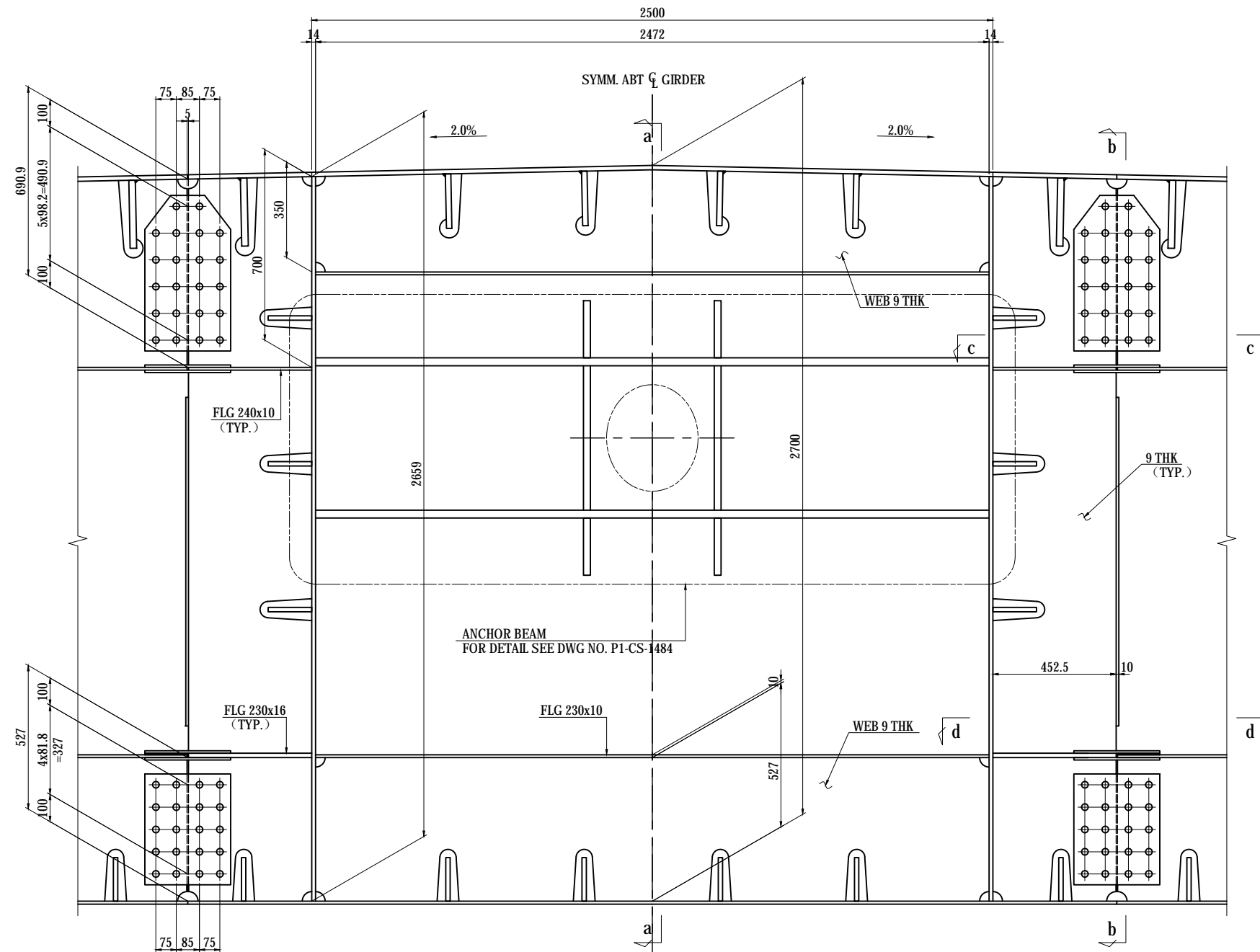
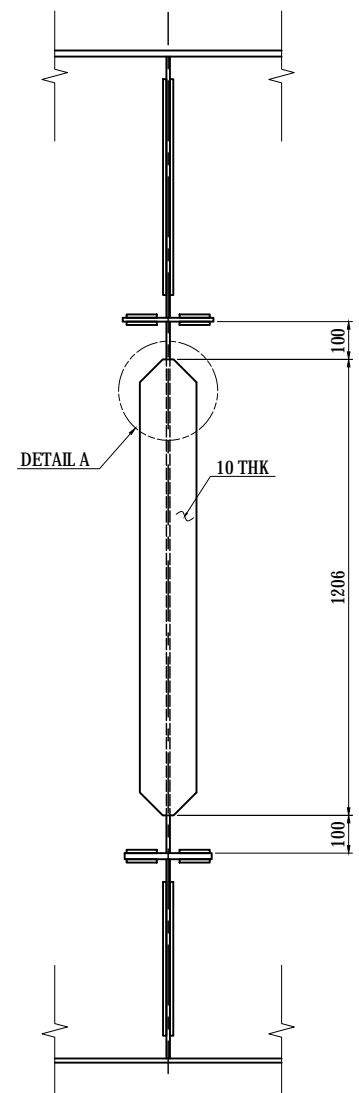
DETAIL A S=1:10



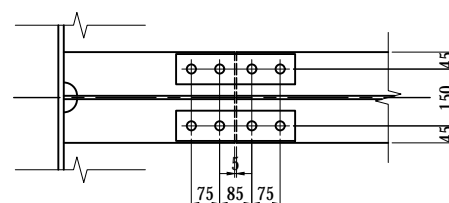
SECTION a-a



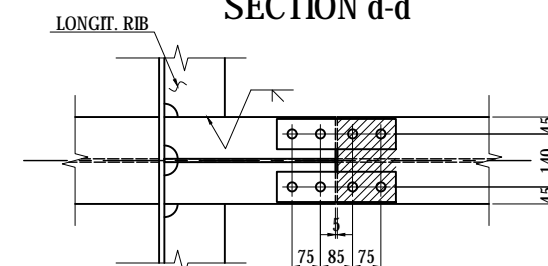
SECTION b-b



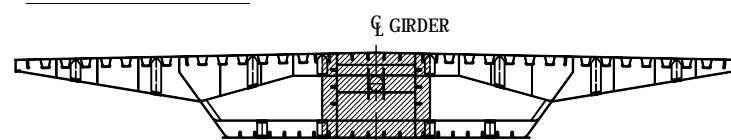
SECTION c-c



SECTION d-d



KEY DIAGRAM



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1480.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C17 (3)</b> | 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-1482 |

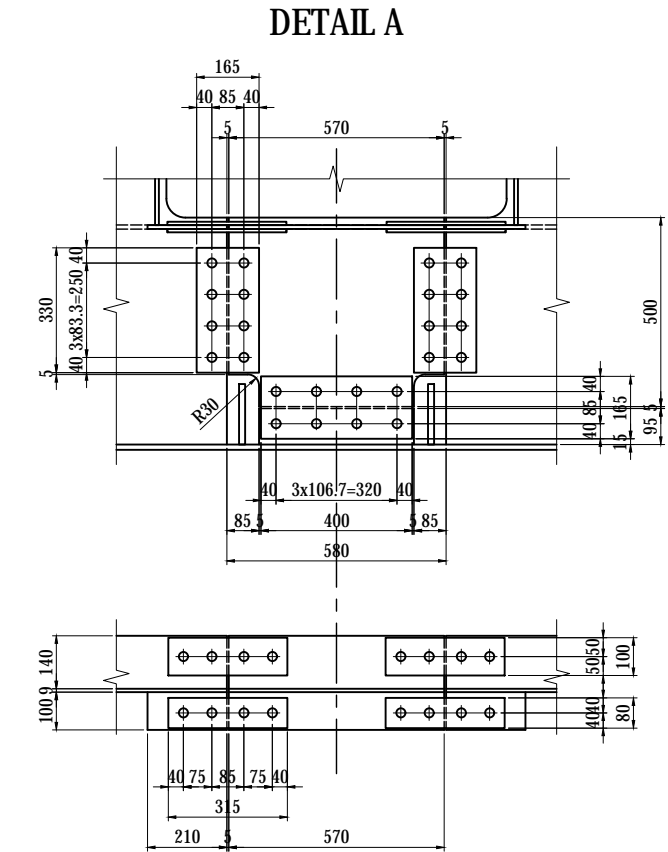
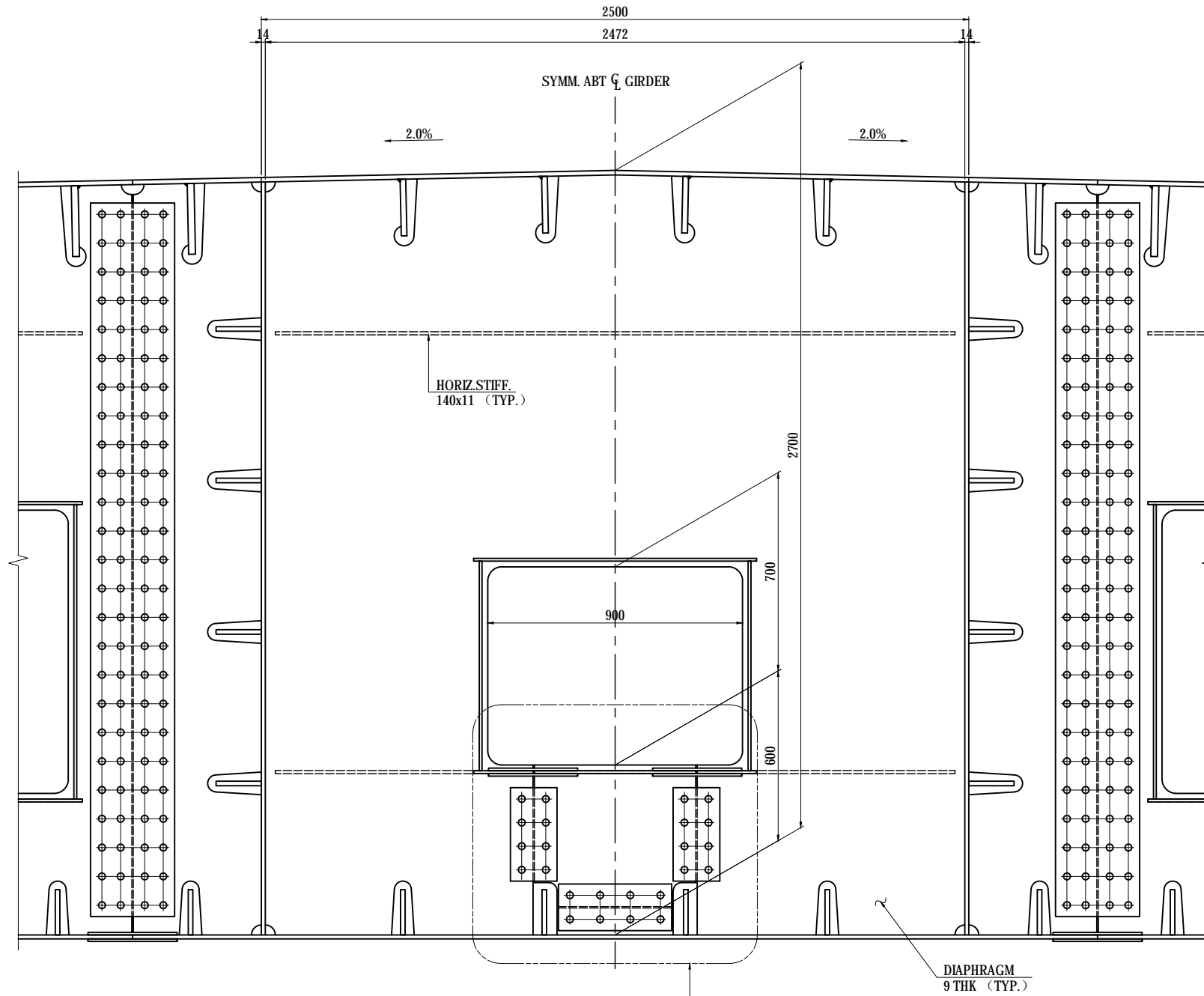
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C17 (4)

S=1:20

### DIAPHRAGM D42

### SECTION C-C

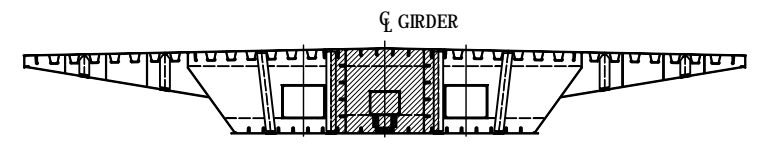


- 1-PL 95 x 9 x 410
- 1-PL 500 x 9 x 570
- 2-SPL PL 165 x 9 x 400 (SS400)
- 8-TCB M22 x 65 (S10T)
- 4-SPL PL 165 x 9 x 330 (SS400)
- 16-TCB M22 x 65 (S10T)
- 1-HSTIF PL 140 x 11 x 570
- 4-SPL PL 100 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)
- 1-COLLAR PL 100 x 10 x 570
- 2-COLLAR PL 100 x 10 x 210
- 4-SPL PL 80 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)

### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1480.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107 DIAPHRAGM TYPE D1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

### KEY DIAGRAM



- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 1-HSTIF PL 140 x 11 x 2402
- 2-HSTIF PL 140 x 11 x 911
- 2-COLLAR PL 100 x 10 x 1000
- 4-COLLAR PL 90 x 10 x 740

INSTALLATION AFTER ANCHOR THE STAY CABLE  
DETAIL A

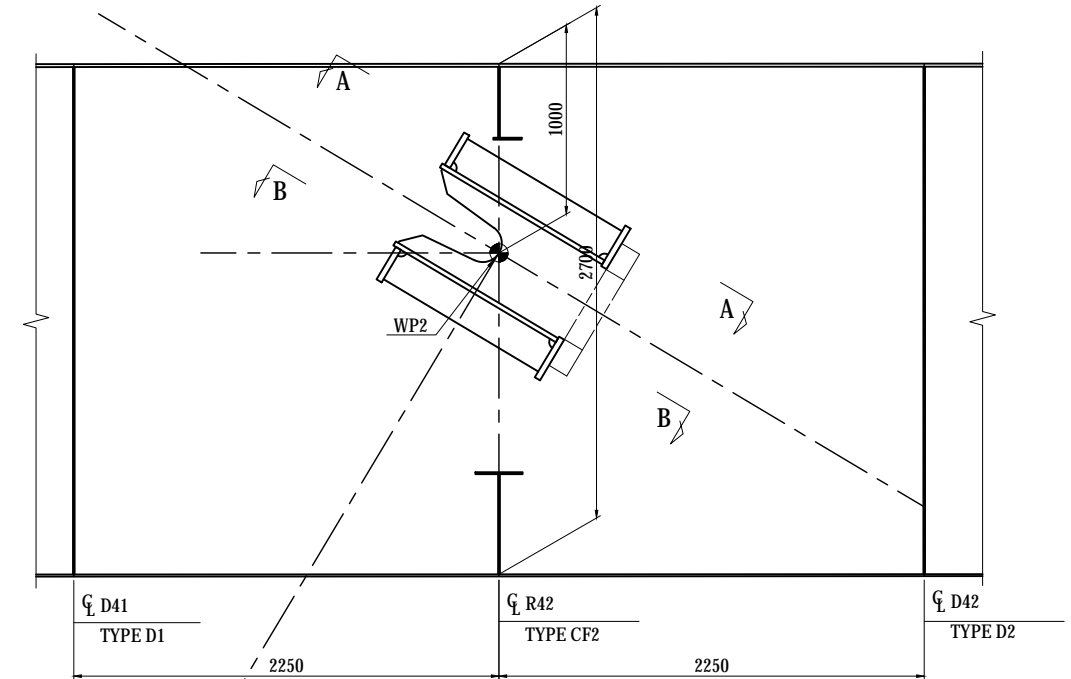
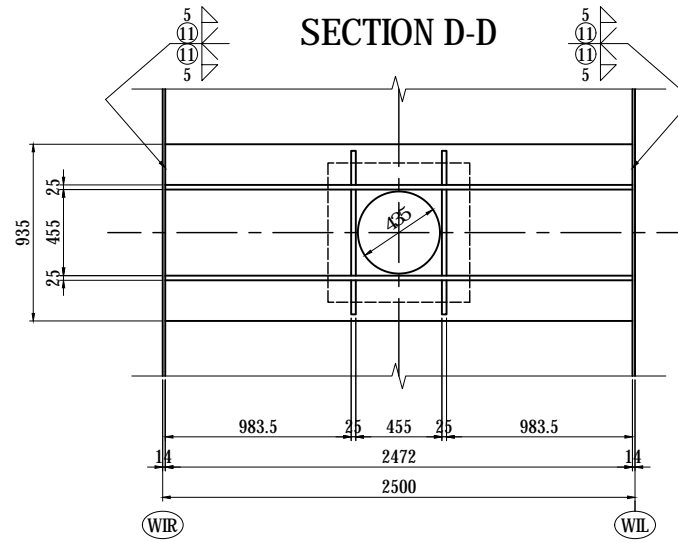
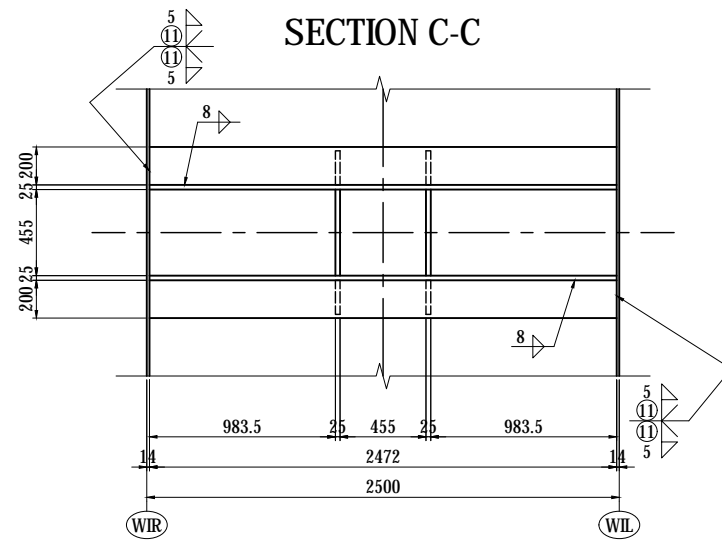
|   |  |   |  |             |             |      |   |                                       |              |
|---|--|---|--|-------------|-------------|------|---|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C17 (4) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1483 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |   |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |   |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |   |                                       | 29. Nov.2017 |



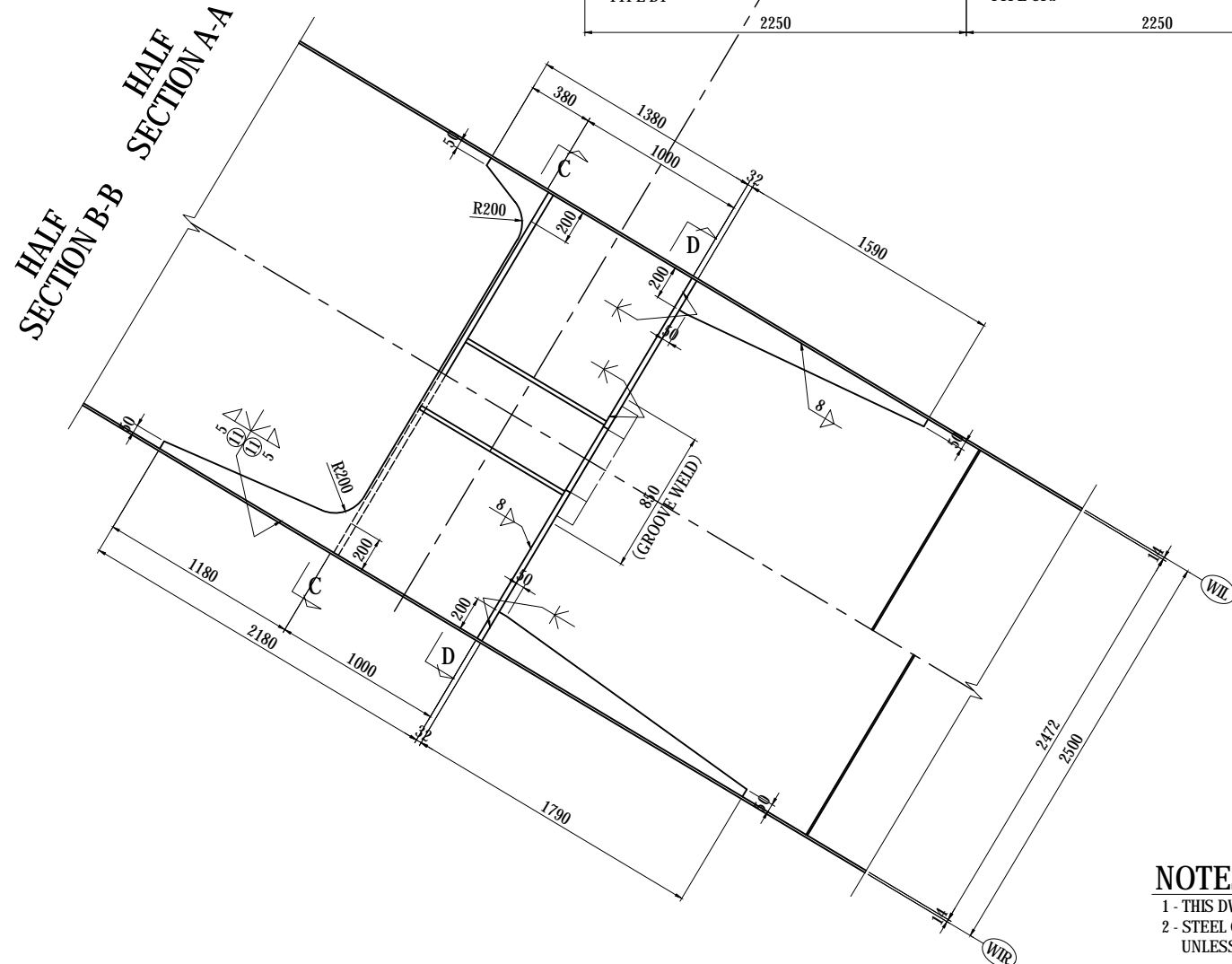
# MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C17 (5)

S=1:40

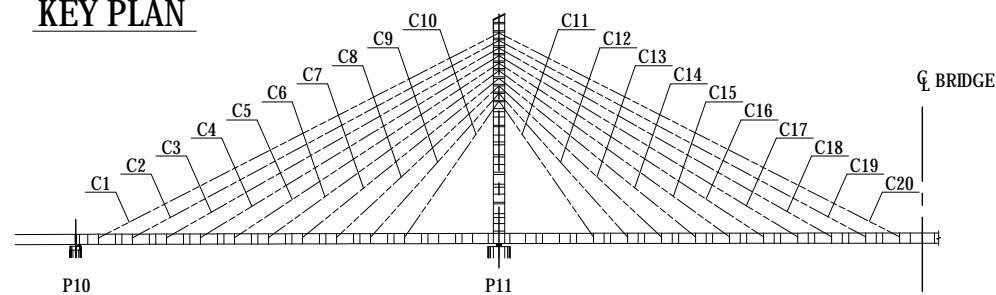
ANCHOR BEAM C17



- 1-FLG PL 935 x 32 x 2472(SM490YB)
- 2-FLG PL 200 x 32 x 2472(SM490YB)
- 1-WEB PL 2180 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1790(SM490YB)
- 1-WEB PL 1380 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1590(SM490YB)
- 2-RIB PL 455 x 25 x 985(SM490YB)
- 4-RIB PL 180 x 25 x 953(SM490YB)
- 1- PL 750 x 110 x 750(SM400C-H)



## KEY PLAN



## NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1482.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |   |                       |  |   |                                       |
|---|--|---|--|---|-----------------------|--|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>NIPPON ENGINEERING CONSULTANTS CO.,LTD. | NAME<br>PREPARED BY T.TOMODA<br>CHECKED BY T. HAYAKAWA<br>APPROVED BY Y. SANO | SIGNATURE<br><br><br> | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C17 (5)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1484 |
|---|--|---|--|---|-----------------------|--|---|---------------------------------------|

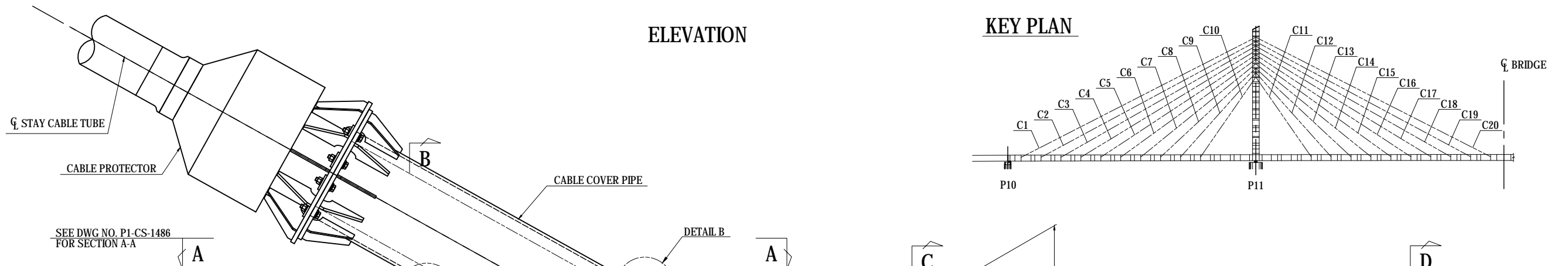
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C18 (1)

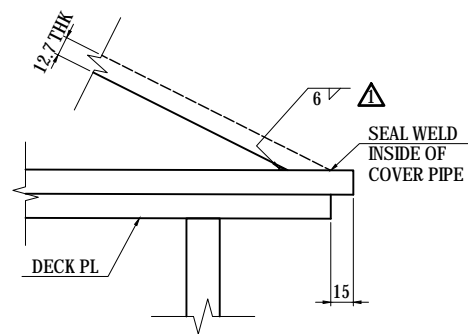
S=1:20

ELEVATION

KEY PLAN

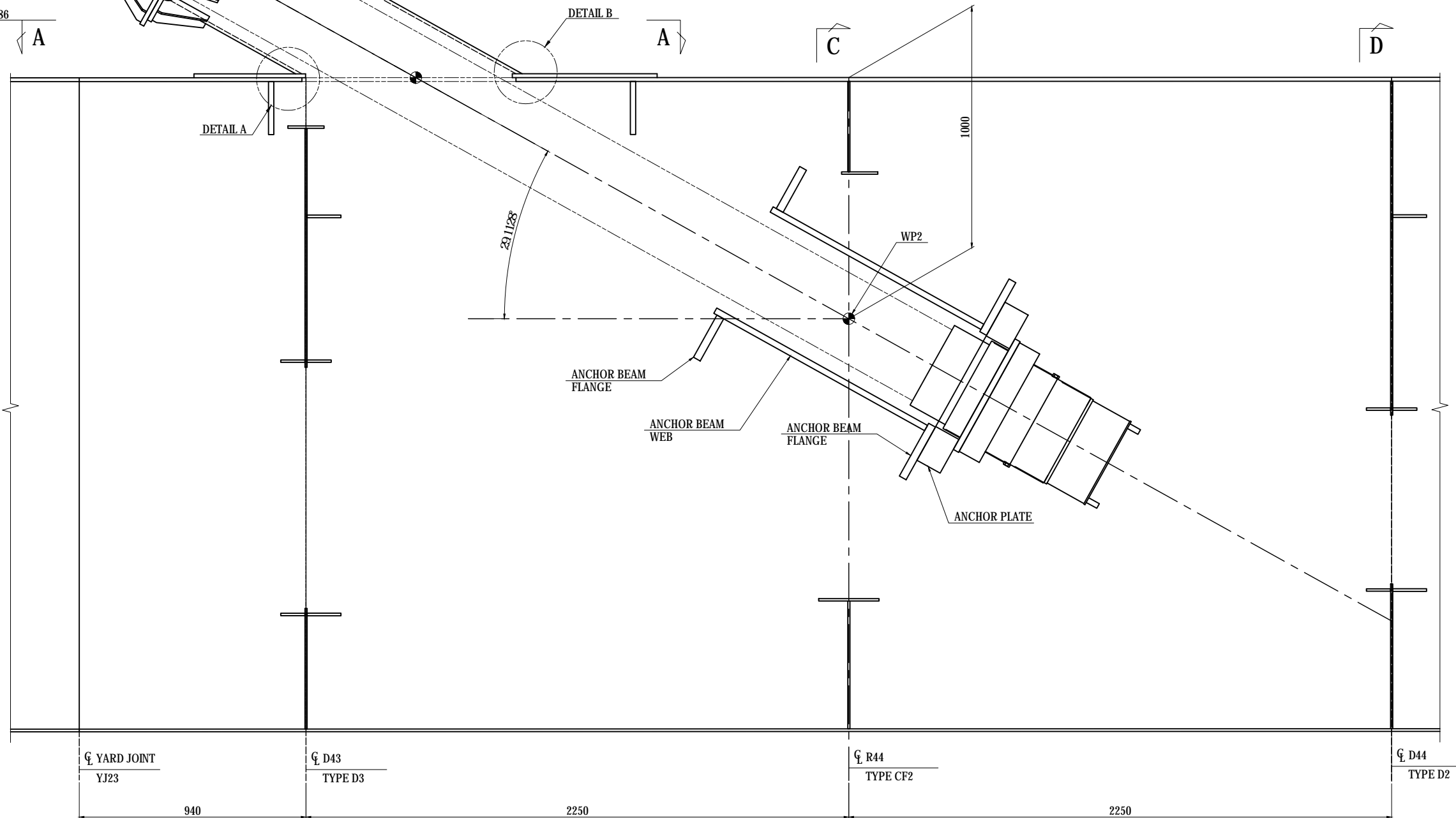
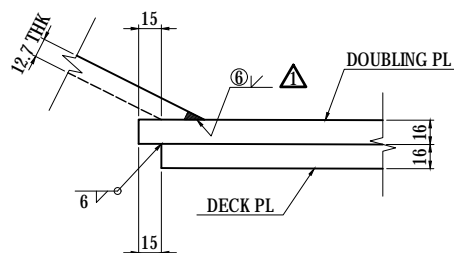


**DETAIL A** S=1:5



△ TRANSITION SEE DWG NO. P1-CS-1486.

**DETAIL B** S=1:5



**B**  
SEE DWG NO. P1-CS-1487  
FOR DIAPHRAGM SECTION B-B

**C**  
SEE DWG NO. P1-CS-1488  
FOR CROSSFRAME SECTION C-C

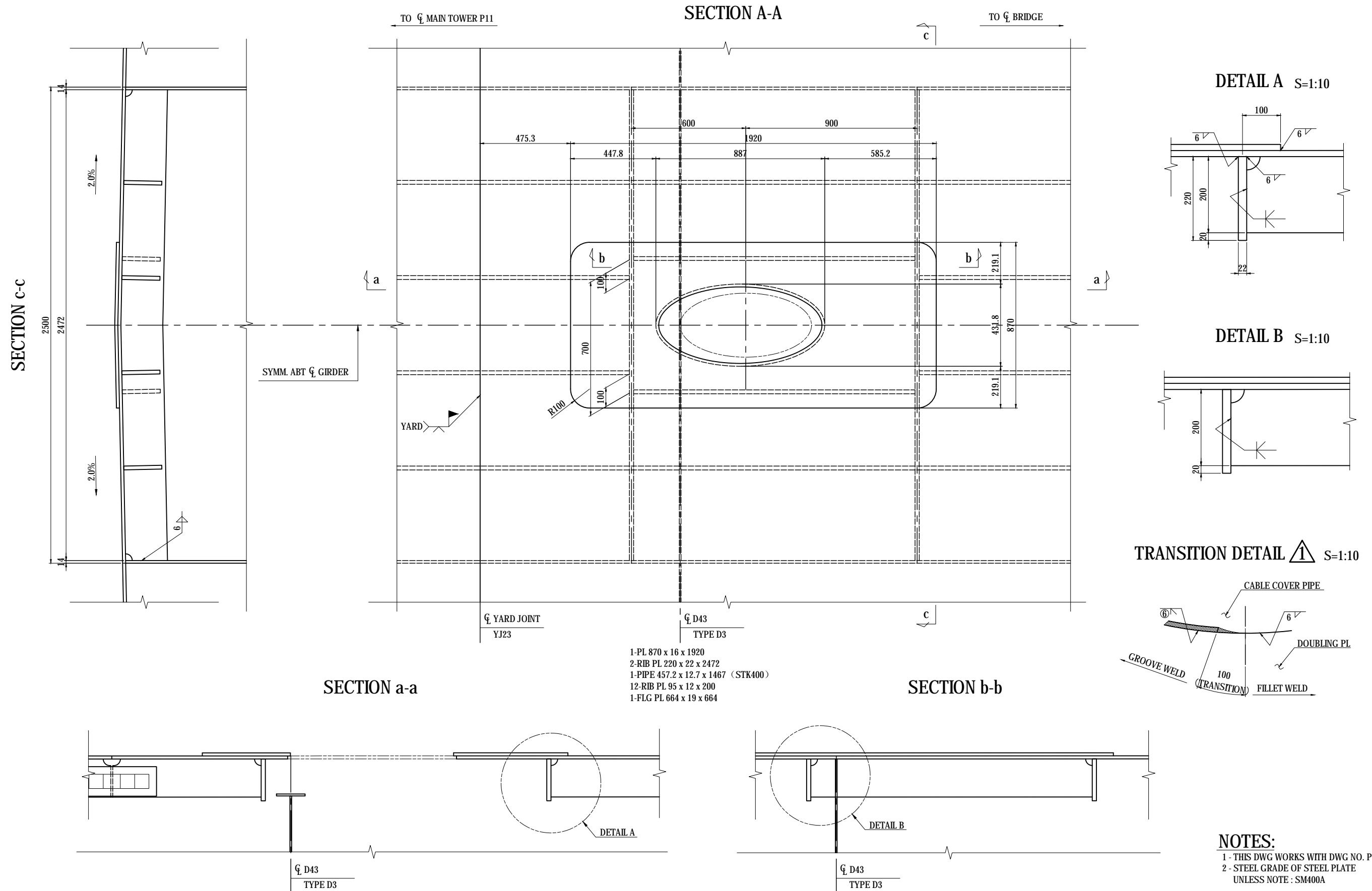
**D**  
SEE DWG NO. P1-CS-1489  
FOR DIAPHRAGM SECTION D-D

|   |  |   |  |   |                       |  |   |                                       |
|---|--|---|--|---|-----------------------|--|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>PREPARED BY T.TOMODA<br>CHECKED BY T. HAYAKAWA<br>APPROVED BY Y. SANO | SIGNATURE<br><br><br> | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C18 (1) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1485 |
|---|--|---|--|---|-----------------------|--|---|---------------------------------------|

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C18 (2)

S=1:20



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1485.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C18 (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-1486 |

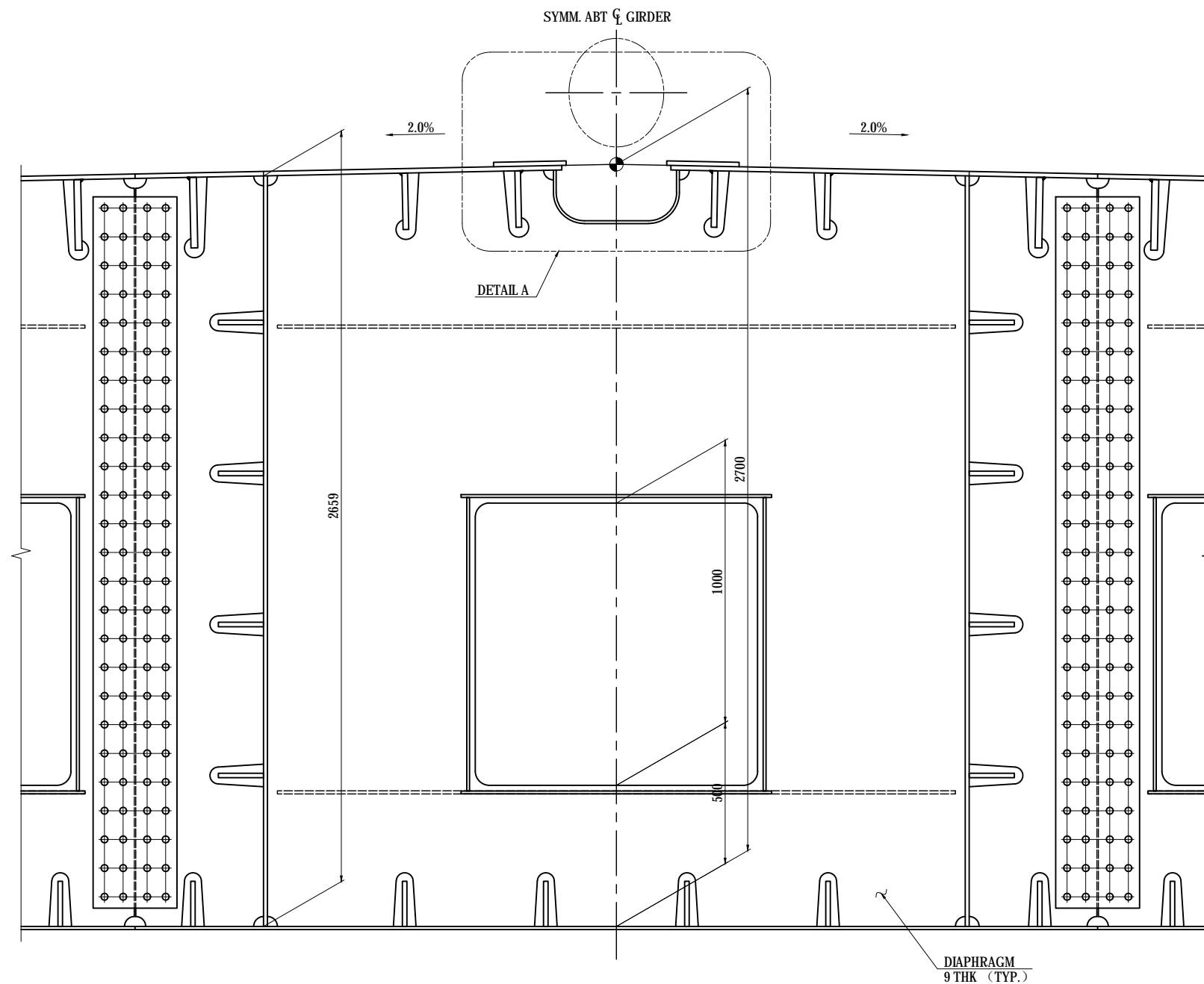
# MAIN GIRDER ANCHORAGE OF STAY CABLES

CABLE NO.C18 (3)

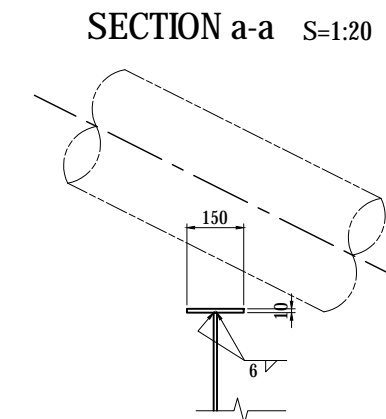
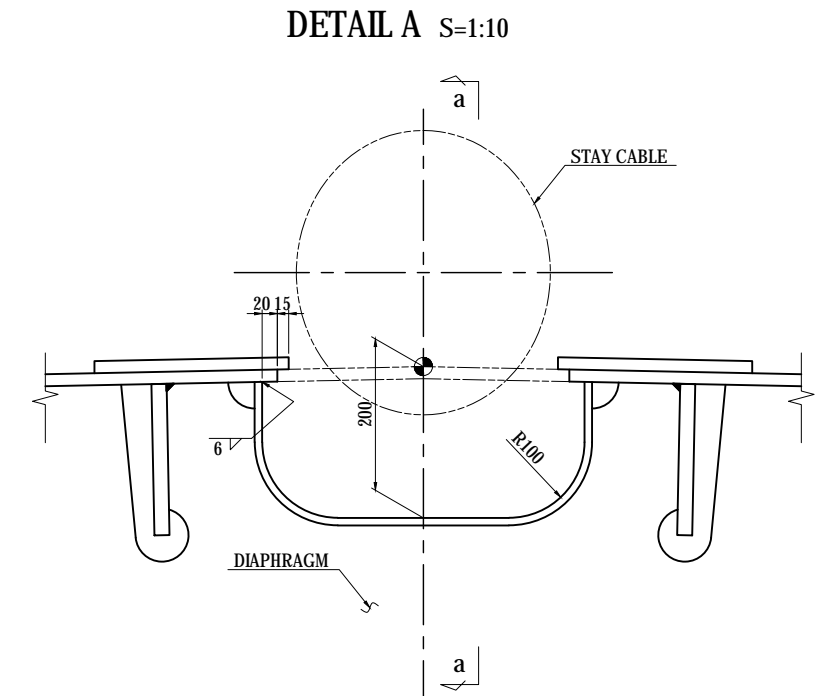
S=1:20

DIAPHRAGM D43

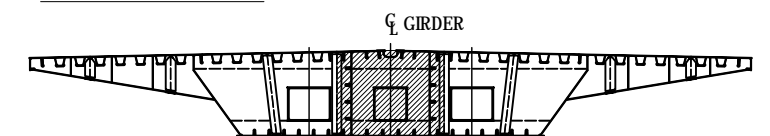
SECTION B-B



- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 2-HSTF PL 140 x 11 x 2402
- 3-COLLAR PL 100 x 10 x 1100
- 4-COLLAR PL 90 x 10 x 1040
- 1-FLG PL 150 x 10 x 715



KEY DIAGRAM



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1485.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107  
DIAPHRAGM TYPE D1.
- 3 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>         CABLE NO.C18 (3)</b> | 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-1487 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

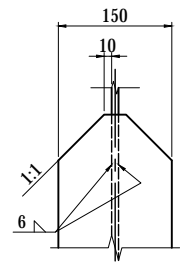
## CABLE NO.C18 (4)

S=1:20

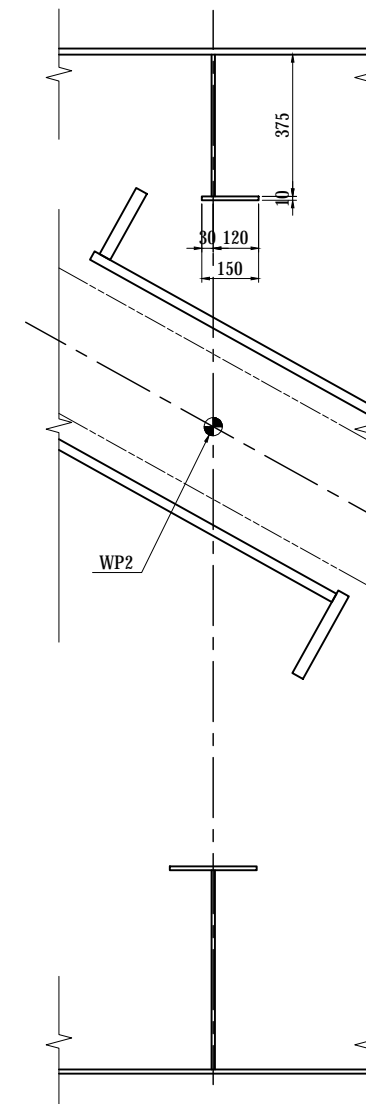
### CROSSFRAME R44 SECTION C-C

- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472

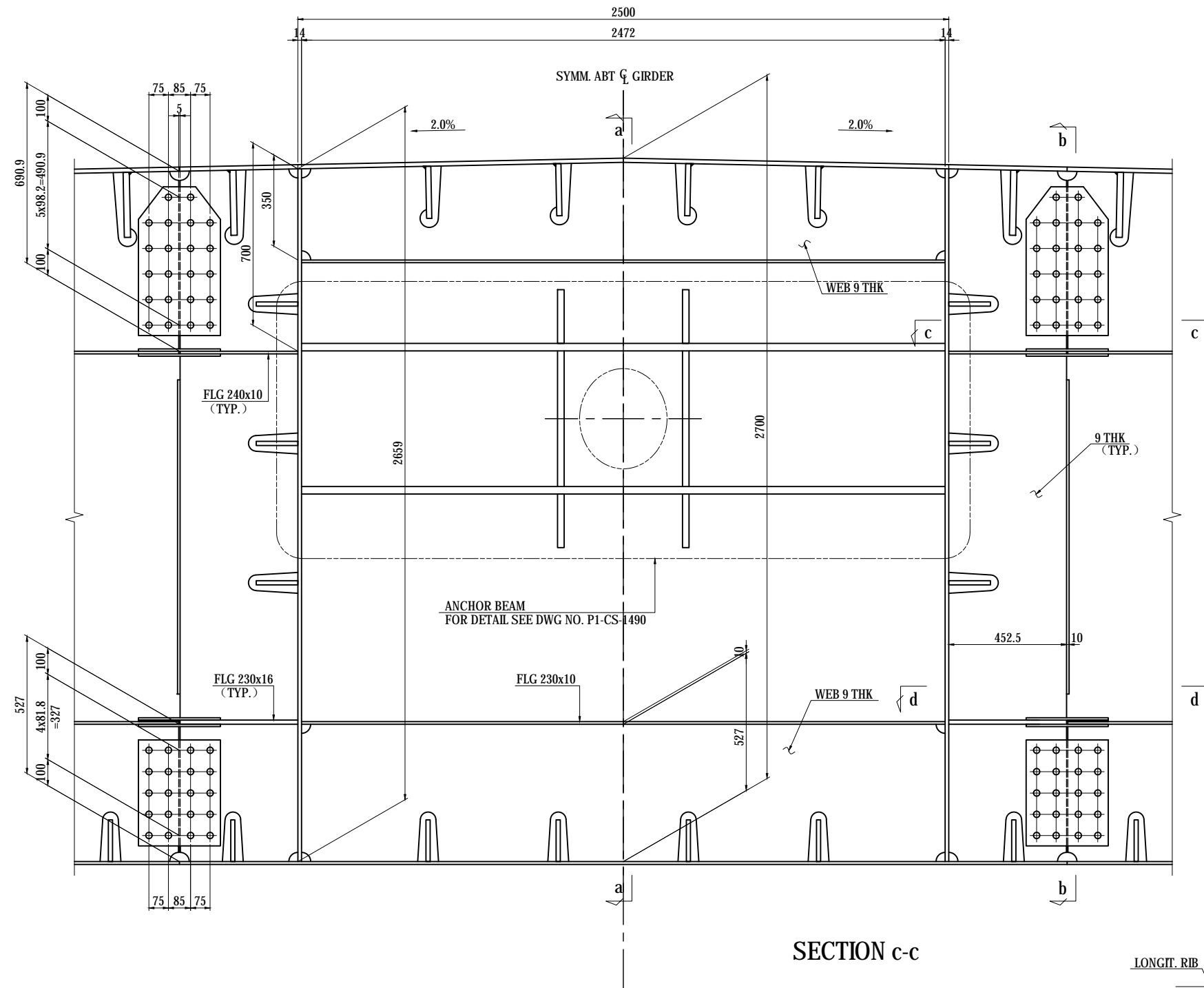
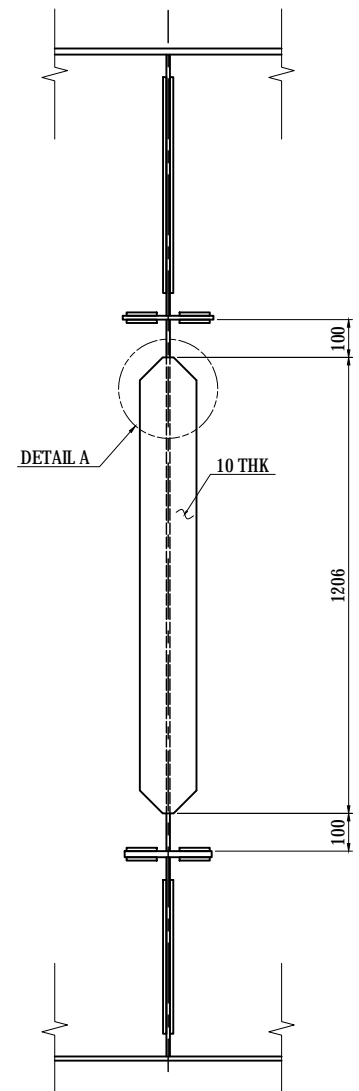
DETAIL A S=1:10



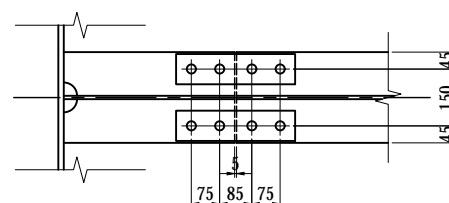
SECTION a-a



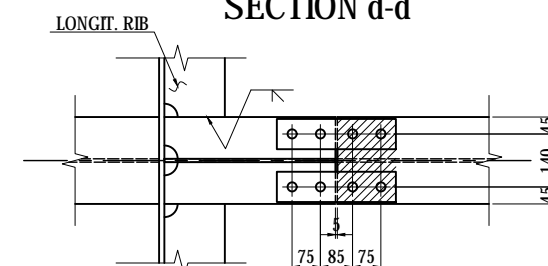
SECTION b-b



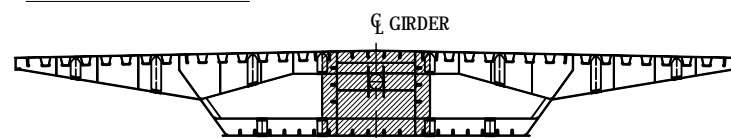
SECTION c-c



SECTION d-d



KEY DIAGRAM



NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1485.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| 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 | MAIN GIRDER ANCHORAGE OF STAY CABLES CABLE NO.C18 (4) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov.2017 |   | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov.2017 |   | P1-CS-1488 |

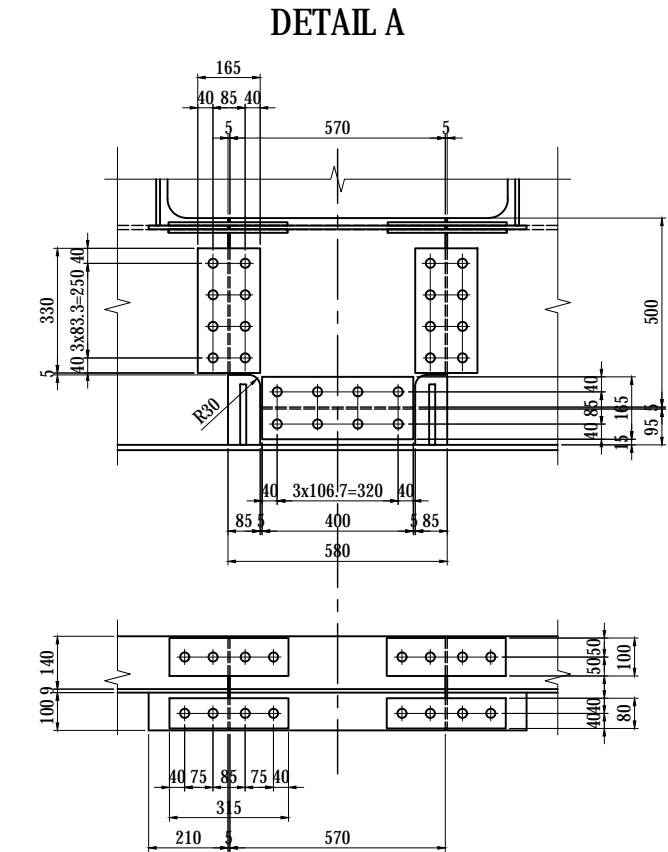
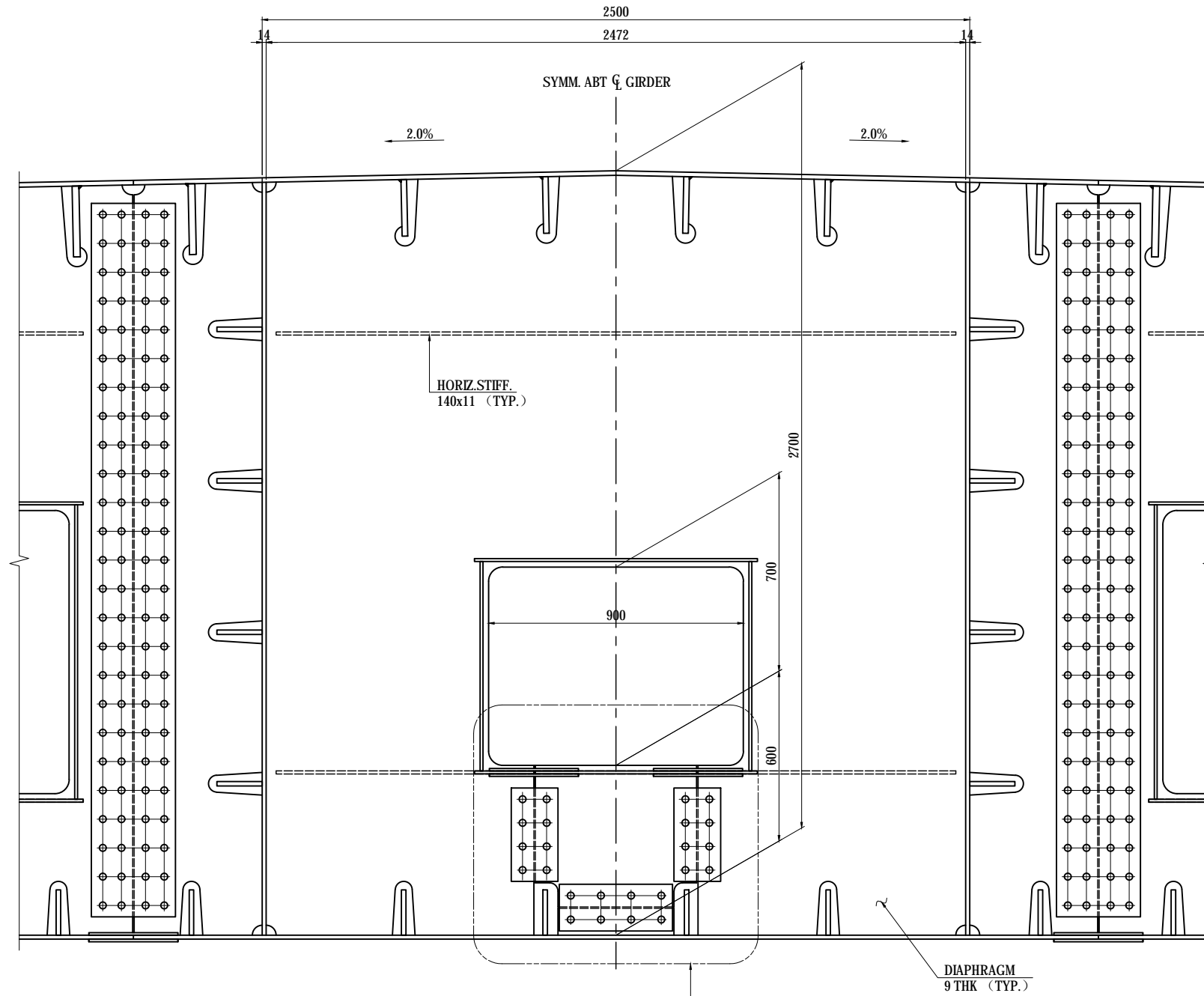
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C18 (5)

S=1:20

### DIAPHRAGM D44

### SECTION D-D

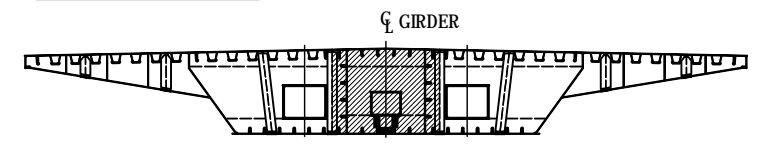


- 1-PL 95 x 9 x 410
- 1-PL 500 x 9 x 570
- 2-SPL PL 165 x 9 x 400 (SS400)
- 8-TCB M22 x 65 (S10T)
- 4-SPL PL 165 x 9 x 330 (SS400)
- 16-TCB M22 x 65 (S10T)
- 1-HSTIF PL 140 x 11 x 570
- 4-SPL PL 100 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)
- 1-COLLAR PL 100 x 10 x 570
- 2-COLLAR PL 100 x 10 x 210
- 4-SPL PL 80 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)

### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1485.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107 DIAPHRAGM TYPE D1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

### KEY DIAGRAM



- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 1-HSTIF PL 140 x 11 x 2402
- 2-HSTIF PL 140 x 11 x 911
- 2-COLLAR PL 100 x 10 x 1000
- 4-COLLAR PL 90 x 10 x 740

INSTALLATION AFTER ANCHOR THE STAY CABLE  
DETAIL A

DIAPHRAGM  
9 THK (TYP.)

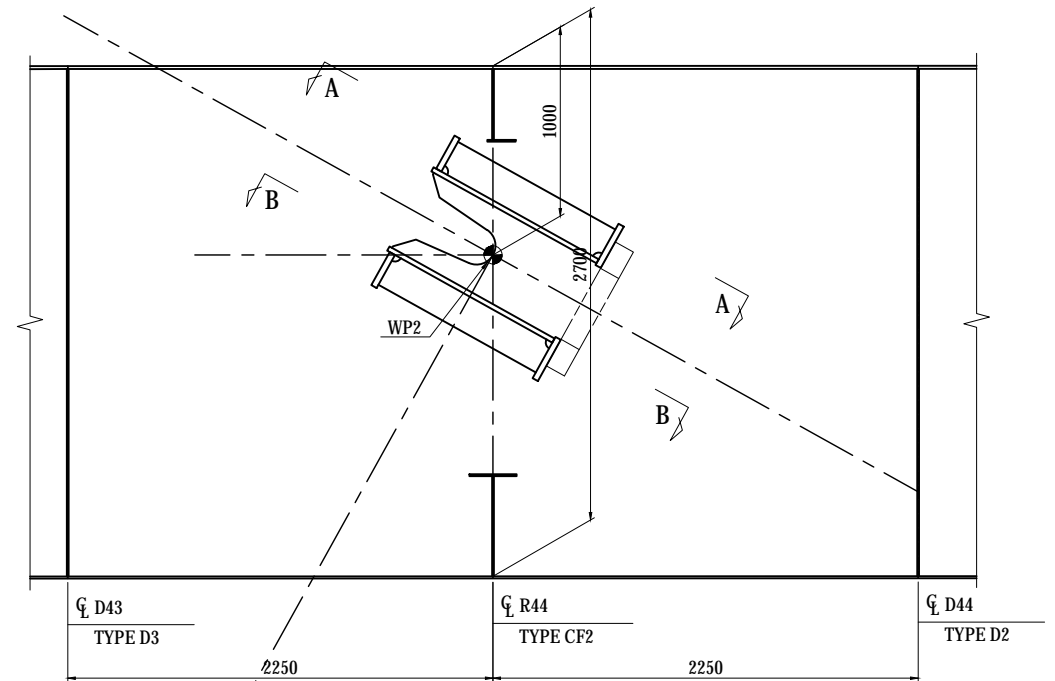
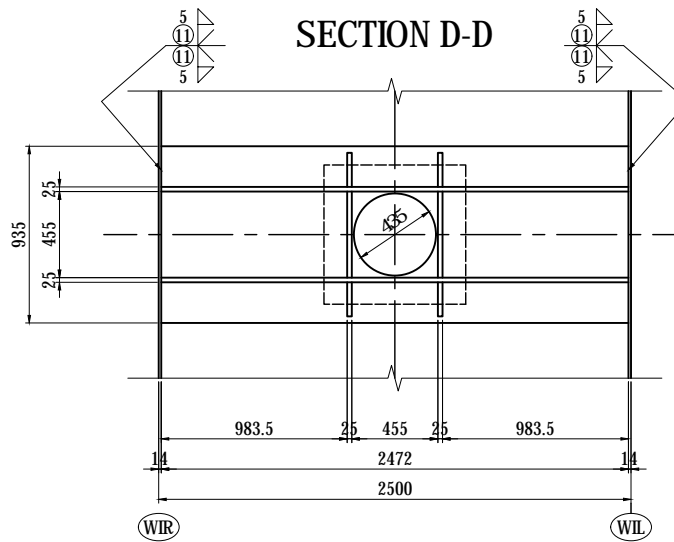
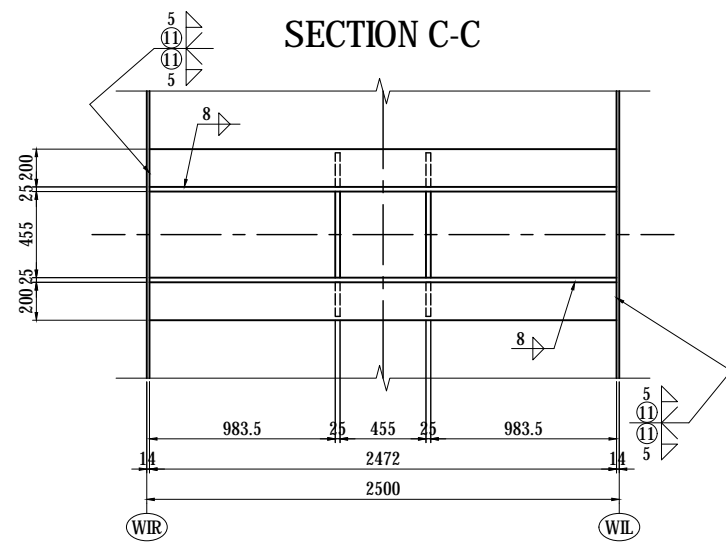
|   |  |   |  |             |             |      |   |                                       |              |
|---|--|---|--|-------------|-------------|------|---|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C18 (5) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1489 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |   |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |   |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |   |                                       | 29. Nov.2017 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C18 (6)

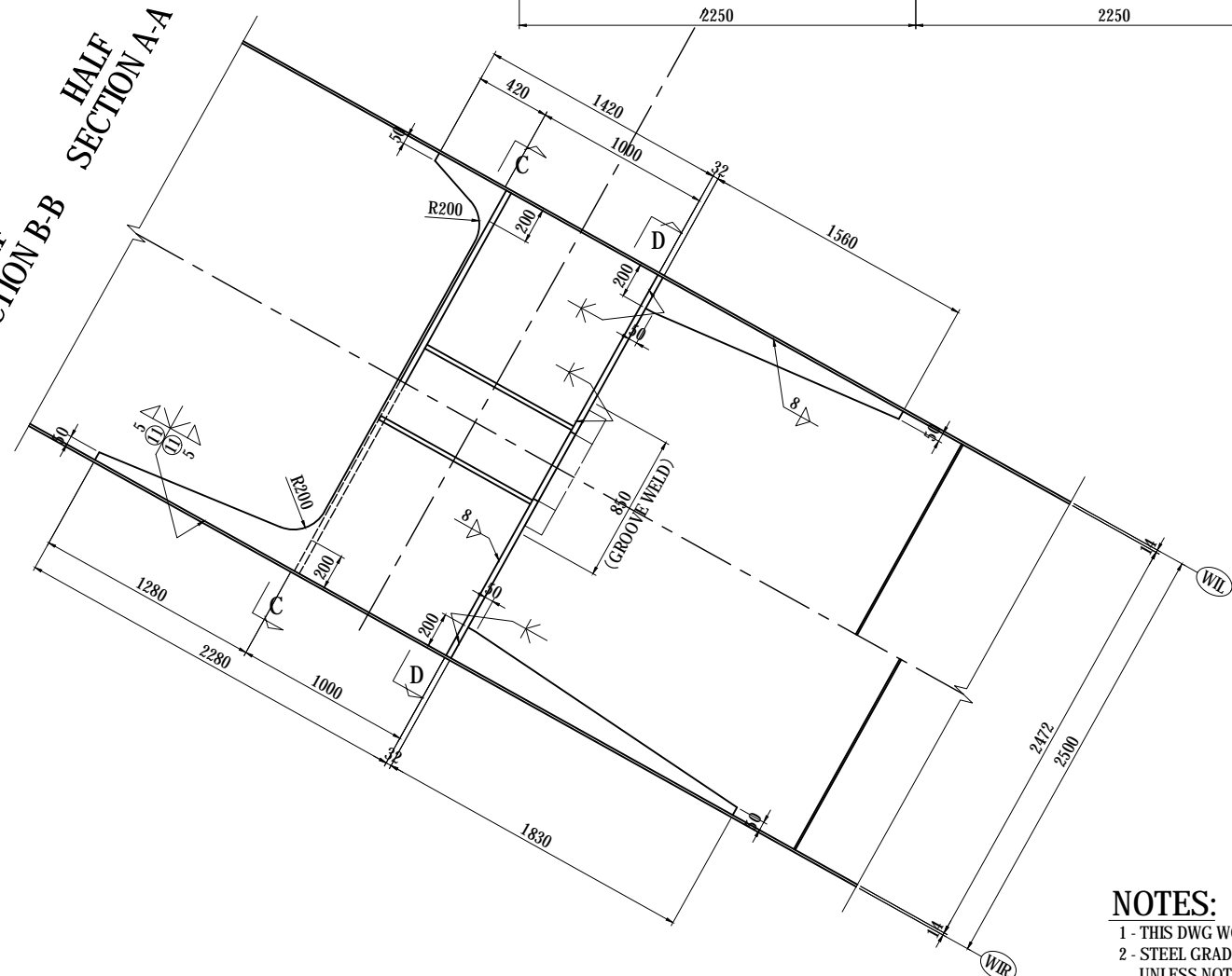
S=1:40

ANCHOR BEAM C18

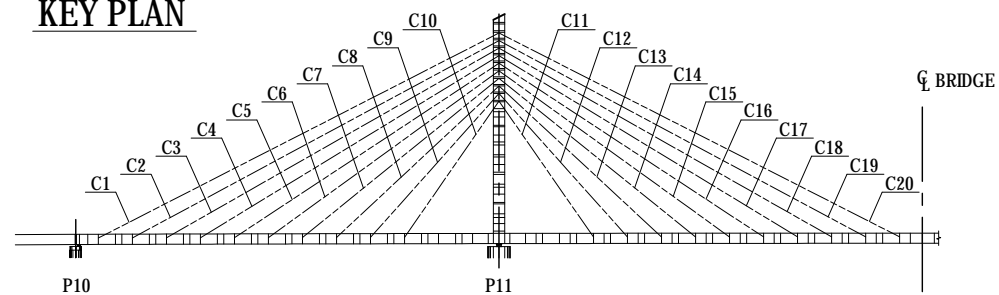


- 1-FLG PL 935 x 32 x 2472(SM490YB)
- 2-FLG PL 200 x 32 x 2472(SM490YB)
- 1-WEB PL 2280 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1830(SM490YB)
- 1-WEB PL 1420 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1560(SM490YB)
- 2-RIB PL 455 x 25 x 985(SM490YB)
- 4-RIB PL 180 x 25 x 953(SM490YB)
- 1- PL 750 x 110 x 750(SM400C-H)

HALF SECTION B-B  
 HALF SECTION A-A



### KEY PLAN



**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1488.  
 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |   |                                      |  |   |                                       |
|---|--|---|--|---|--------------------------------------|--|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>PREPARED BY T.TOMODA<br>CHECKED BY T. HAYAKAWA<br>APPROVED BY Y. SANO | SIGNATURE<br>友田 隆雄<br>平川 知平<br>佐野 祐一 | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C18 (6) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1490 |
|---|--|---|--|---|--------------------------------------|--|---|---------------------------------------|

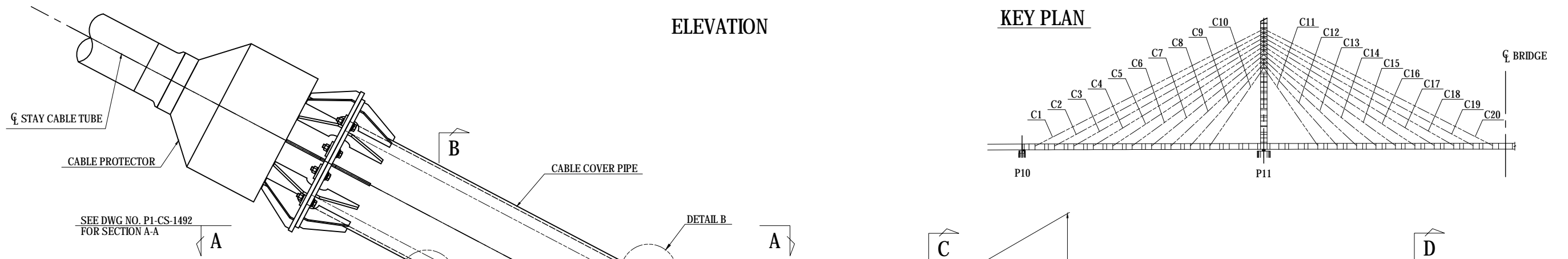
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C19 (1)

S=1:20

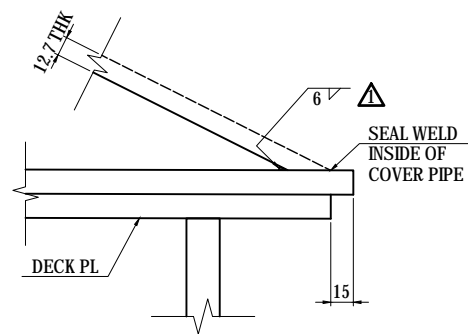
ELEVATION

KEY PLAN



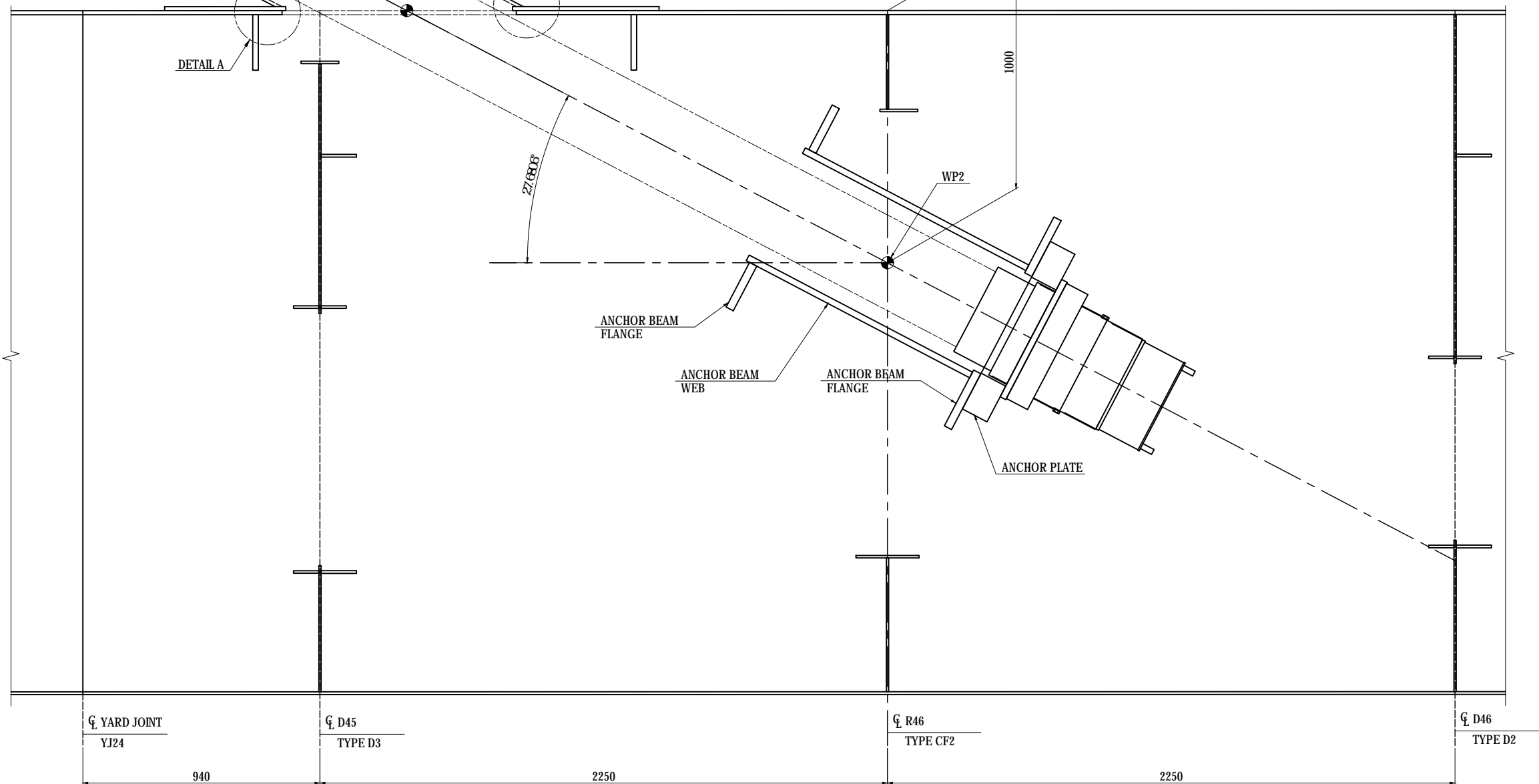
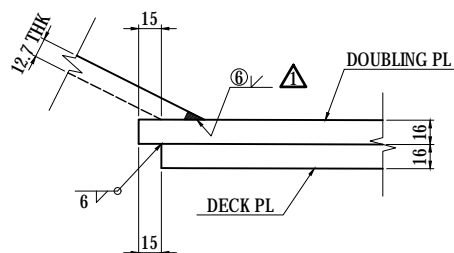
SEE DWG NO. P1-CS-1492 FOR SECTION A-A

**DETAIL A** S=1:5



△ TRANSITION SEE DWG NO. P1-CS-1492.

**DETAIL B** S=1:5



**B**  
SEE DWG NO. P1-CS-1493 FOR DIAPHRAGM SECTION B-B

**C**  
SEE DWG NO. P1-CS-1494 FOR CROSSFRAME SECTION C-C

**D**  
SEE DWG NO. P1-CS-1495 FOR DIAPHRAGM SECTION D-D

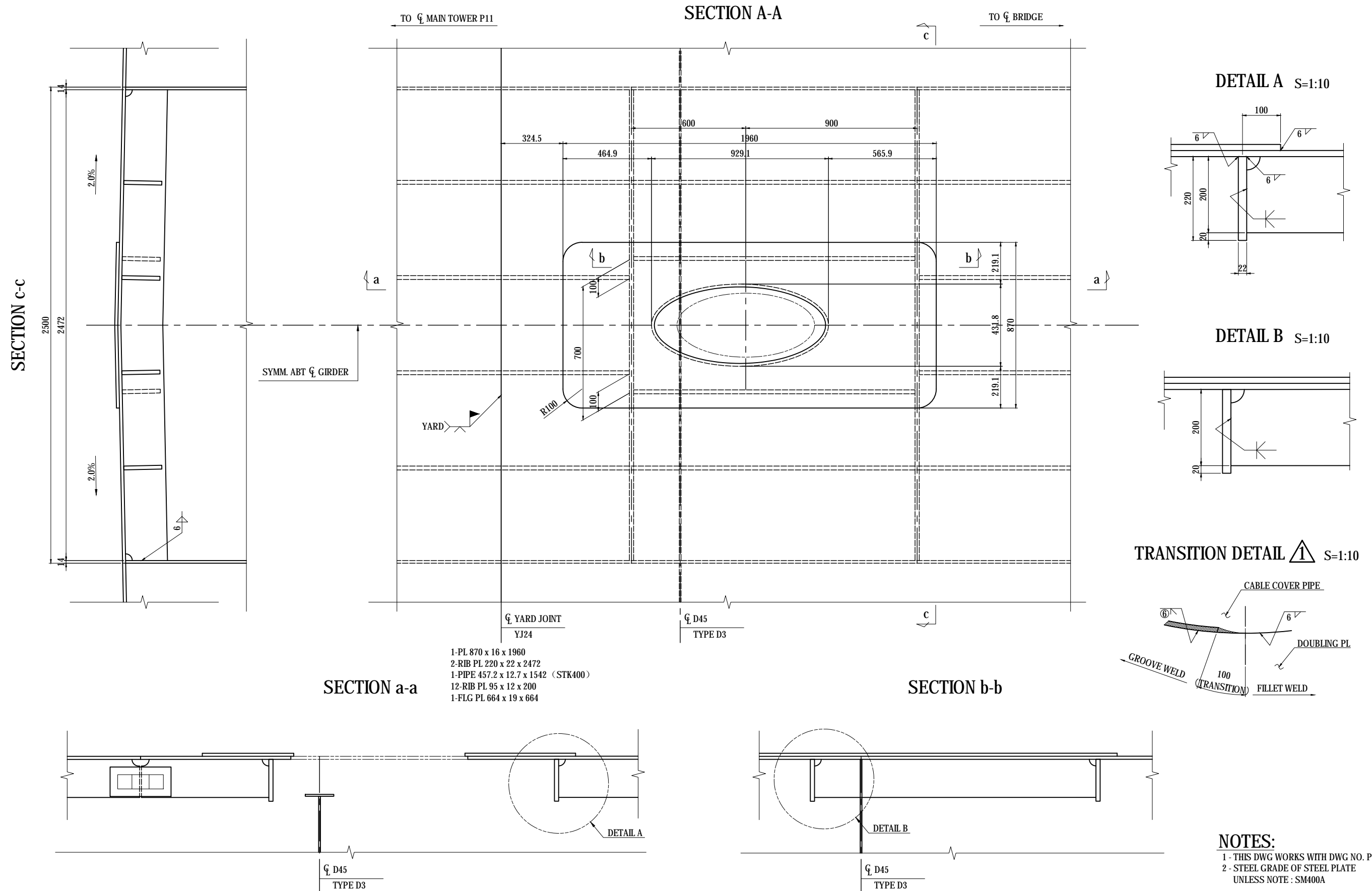
|   |   |   |  |  |                       |  |   |                                       |
|---|---|---|--|--|-----------------------|--|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>T.TOMODA<br>T. HAYAKAWA<br>Y. SANO | SIGNATURE<br><br><br> | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C19 (1)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1491 |
|---|---|---|--|--|-----------------------|--|---|---------------------------------------|



# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C19 (2)

S=1:20



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1491.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |                                       |              |
|---|--|---|--|-------------|-------------|------|---|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C19 (2) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1492 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |   |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |   |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |   |                                       | 29. Nov.2017 |

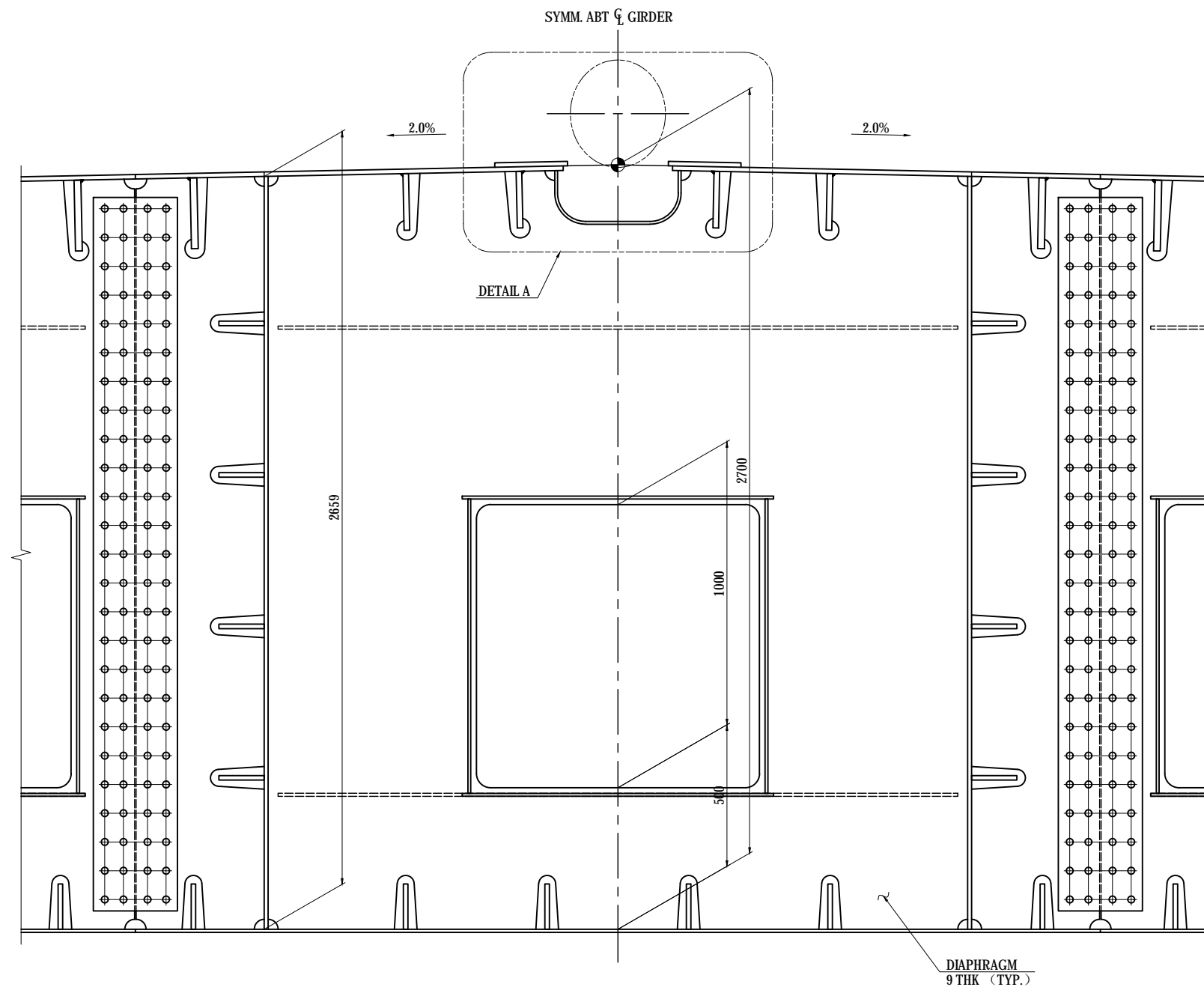
# MAIN GIRDER ANCHORAGE OF STAY CABLES

CABLE NO.C19 (3)

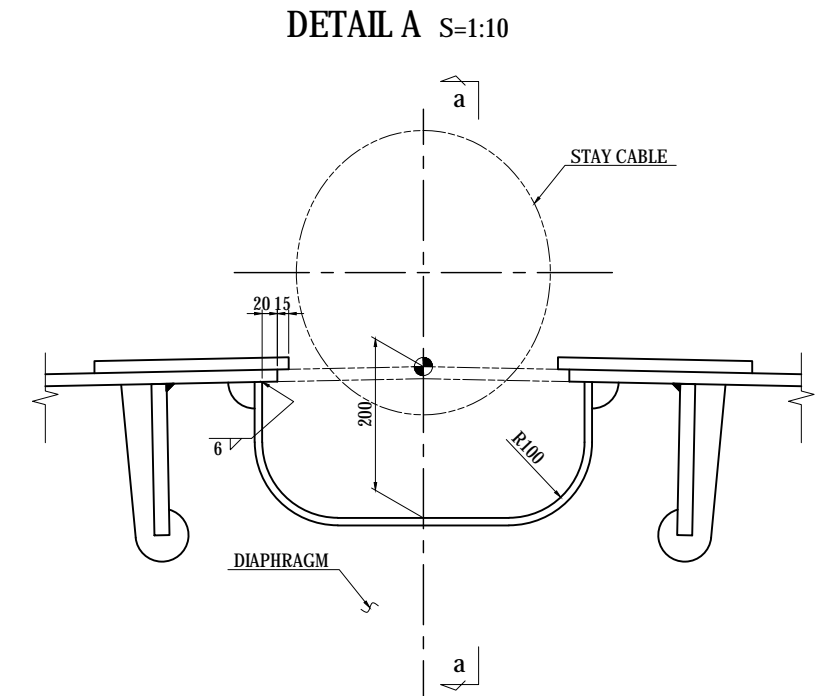
S=1:20

DIAPHRAGM D45

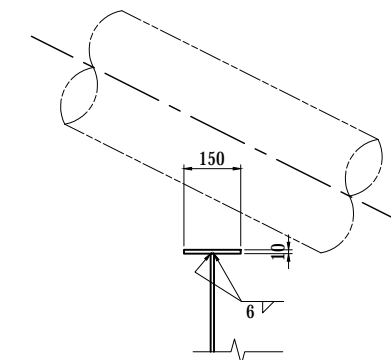
SECTION B-B



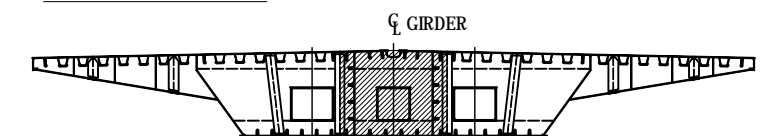
- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 2-HSTIF PL 140 x 11 x 2402
- 3-COLLAR PL 100 x 10 x 1100
- 4-COLLAR PL 90 x 10 x 1040
- 1-FLG PL 150 x 10 x 715



SECTION a-a S=1:20



KEY DIAGRAM



**NOTES:**

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1491.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107  
DIAPHRAGM TYPE D1.
- 3 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C19 (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-1493 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

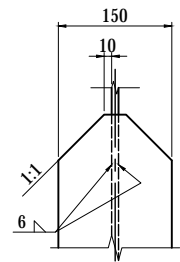
## CABLE NO.C19 (4)

S=1:20

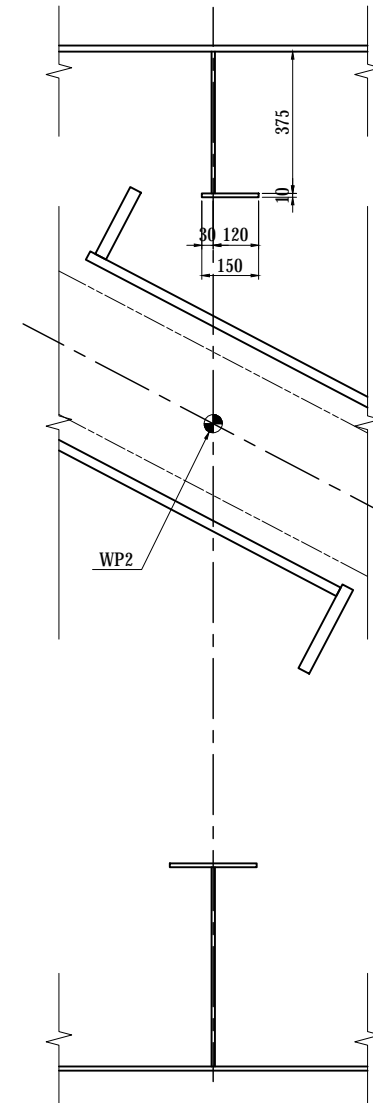
### CROSSFRAME R46 SECTION C-C

- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472

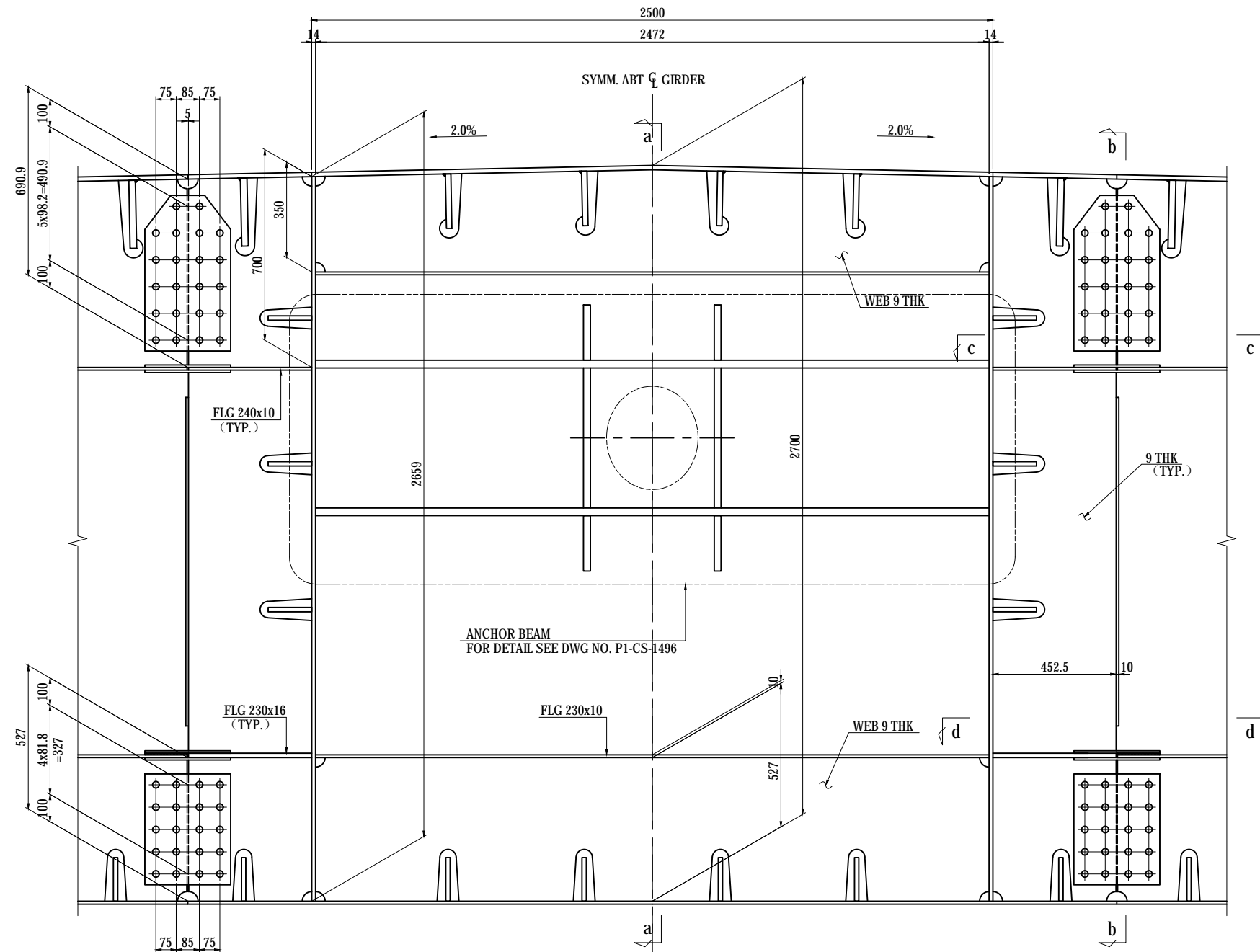
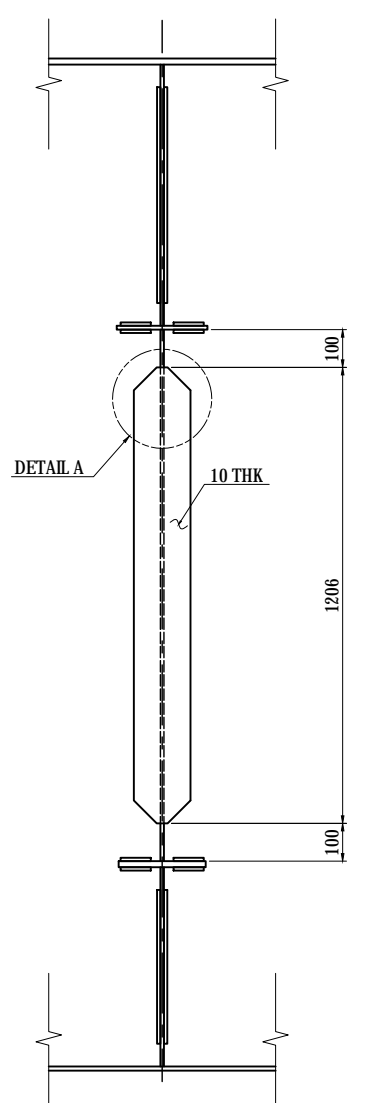
DETAIL A S=1:10



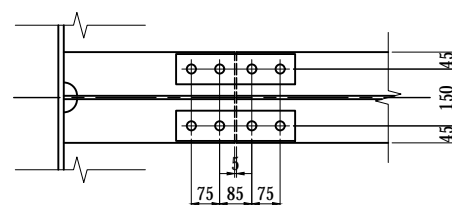
SECTION a-a



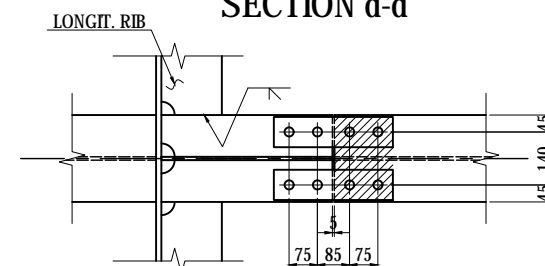
SECTION b-b



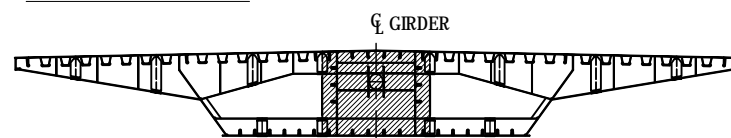
SECTION c-c



SECTION d-d



KEY DIAGRAM



NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1491.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C19 (4)</b> | 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-1494 |

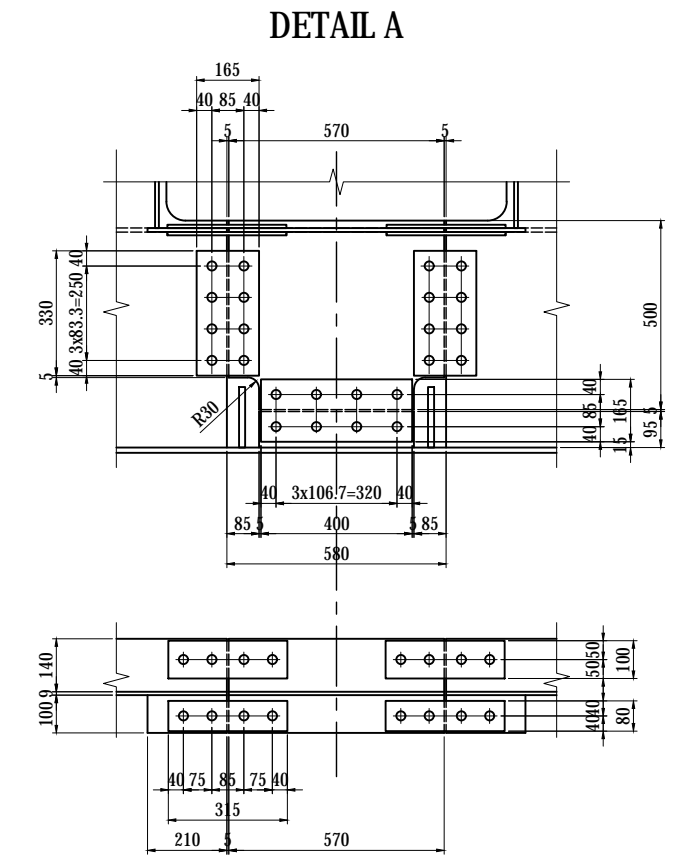
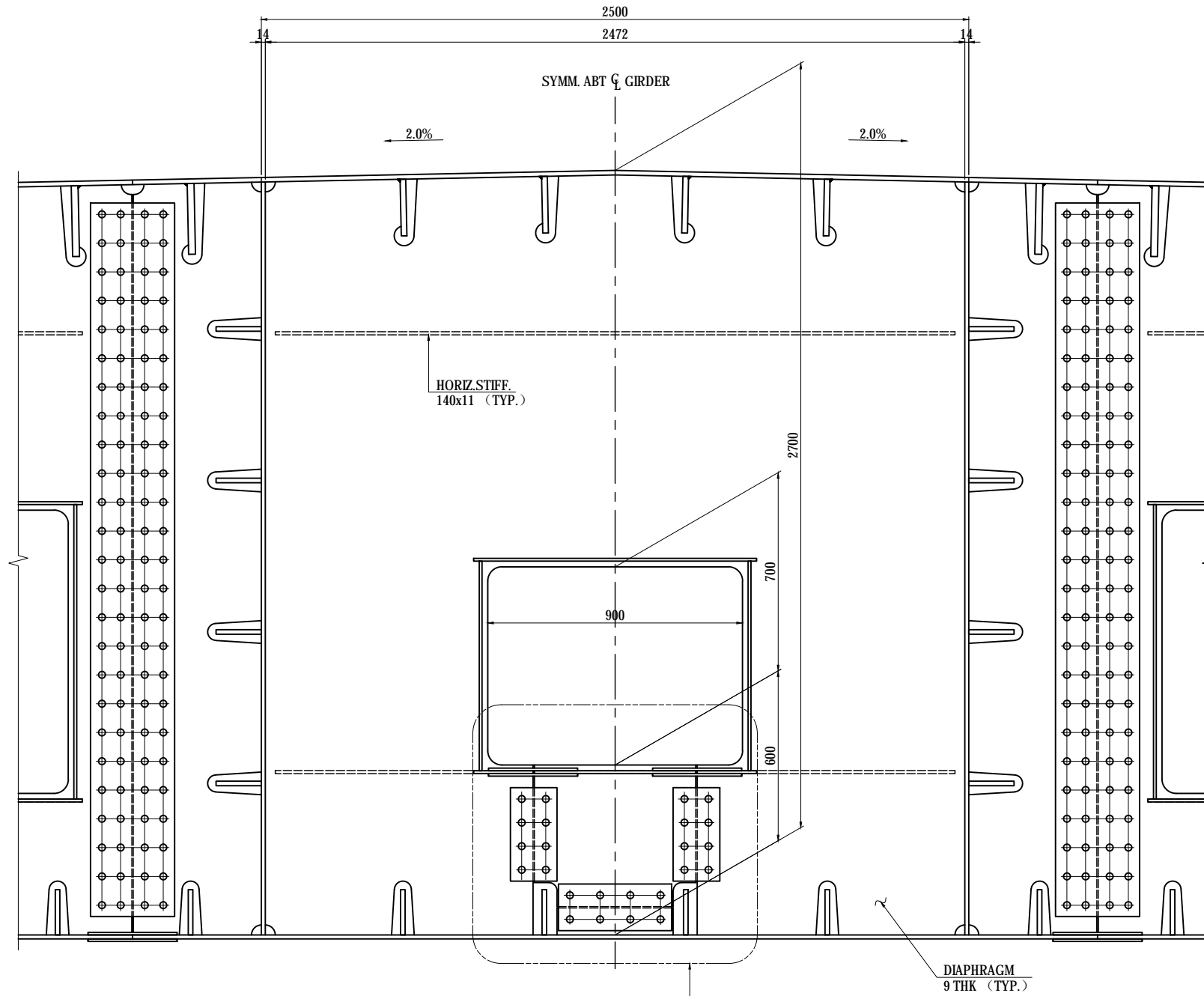
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C19 (5)

S=1:20

### DIAPHRAGM D46

### SECTION D-D

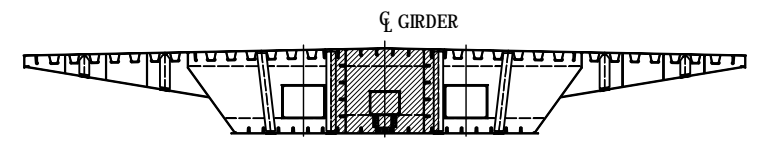


- 1-PL 95 x 9 x 410
- 1-PL 500 x 9 x 570
- 2-SPL PL 165 x 9 x 400 (SS400)
- 8-TCB M22 x 65 (S10T)
- 4-SPL PL 165 x 9 x 330 (SS400)
- 16-TCB M22 x 65 (S10T)
- 1-HSTIF PL 140 x 11 x 570
- 4-SPL PL 100 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)
- 1-COLLAR PL 100 x 10 x 570
- 2-COLLAR PL 100 x 10 x 210
- 4-SPL PL 80 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)

#### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1491.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107 DIAPHRAGM TYPE D1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

#### KEY DIAGRAM



- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 1-HSTIF PL 140 x 11 x 2402
- 2-HSTIF PL 140 x 11 x 911
- 2-COLLAR PL 100 x 10 x 1000
- 4-COLLAR PL 90 x 10 x 740

INSTALLATION AFTER ANCHOR THE STAY CABLE  
DETAIL A

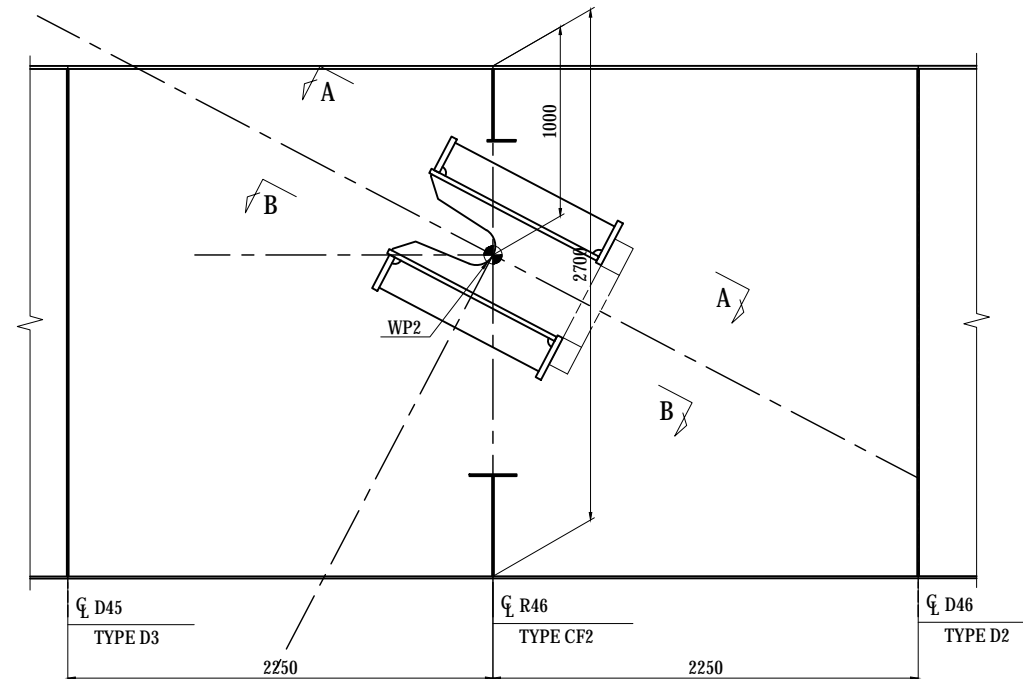
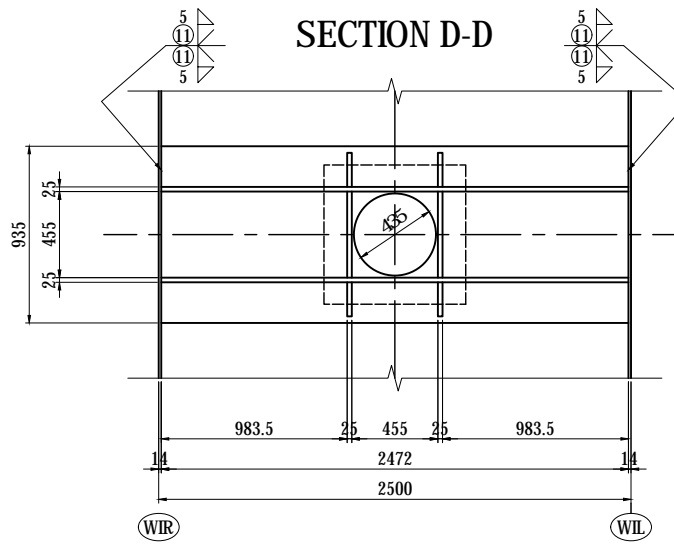
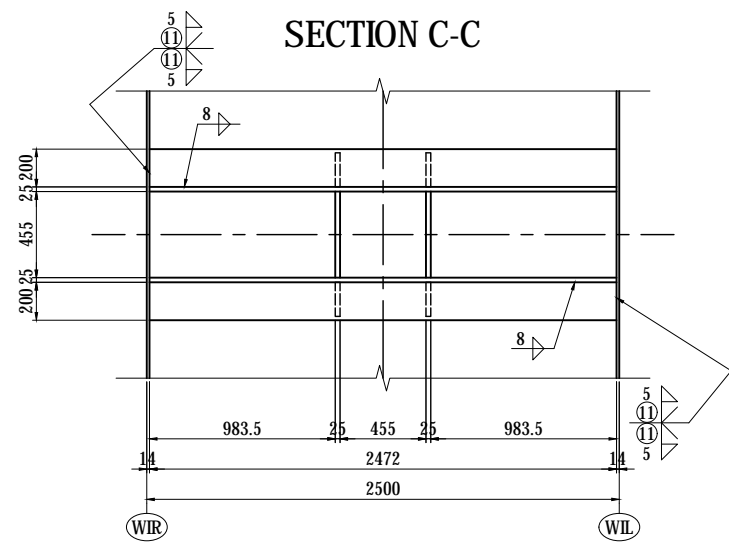
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|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C19 (5) | 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-1495 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

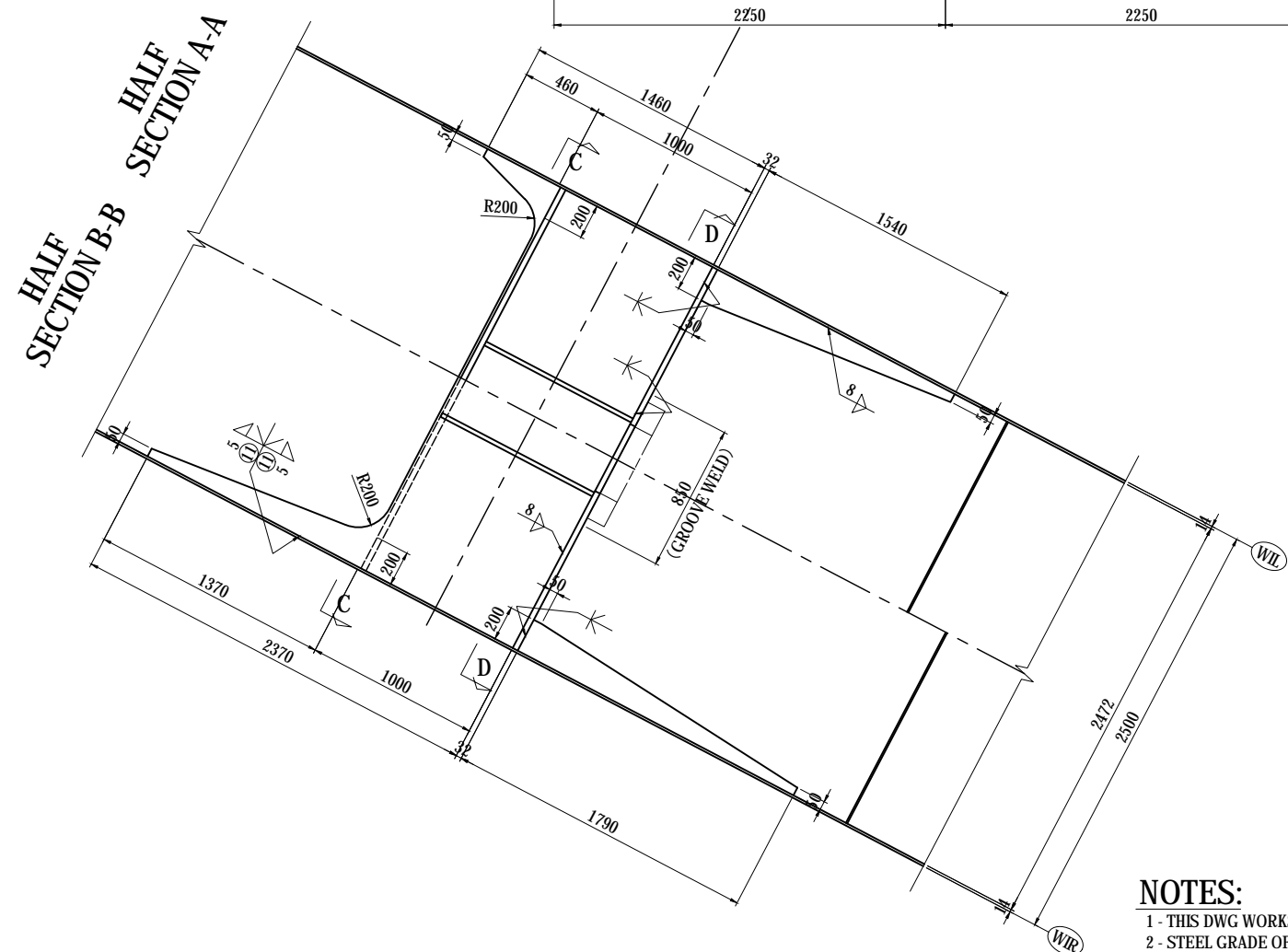
## CABLE NO.C19 (6)

S=1:40

ANCHOR BEAM C19



- 1-FLG PL 935 x 32 x 2472(SM490YB)
- 2-FLG PL 200 x 32 x 2472(SM490YB)
- 1-WEB PL 2370 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1790(SM490YB)
- 1-WEB PL 1460 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1540(SM490YB)
- 2-RIB PL 455 x 25 x 985(SM490YB)
- 4-RIB PL 180 x 25 x 953(SM490YB)
- 1- PL 750 x 110 x 750(SM400C-H)



### KEY PLAN

- NOTES:**
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1494.
  - 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>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<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | DRAWING TITLE<br><h3 style="text-align: center;">MAIN GIRDER ANCHORAGE OF STAY CABLES</h3> <h4 style="text-align: center;">CABLE NO.C19 (6)</h4> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1496 |
|---|--|---|--|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|--|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |

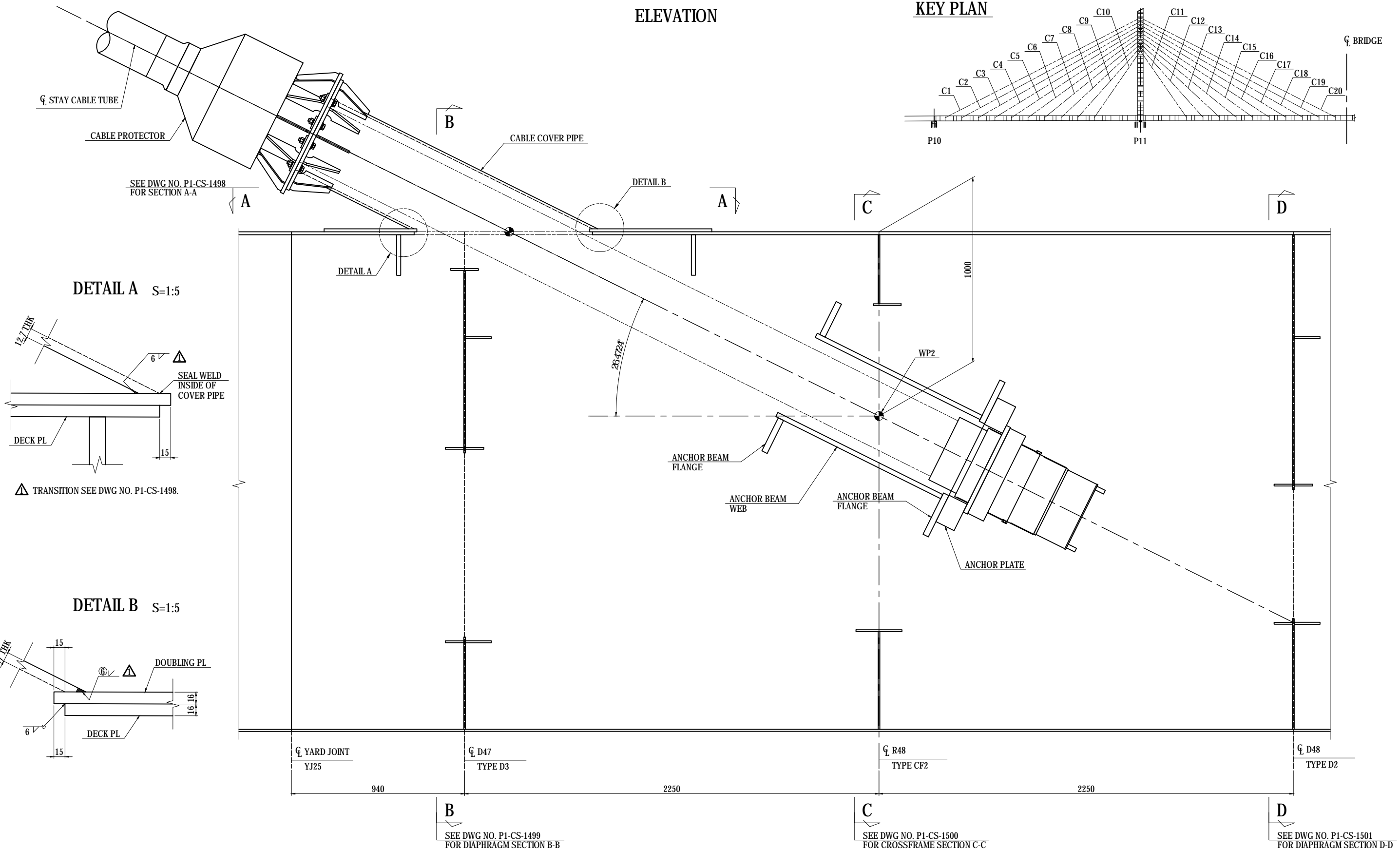
# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C20 (1)

S=1:20

ELEVATION

KEY PLAN

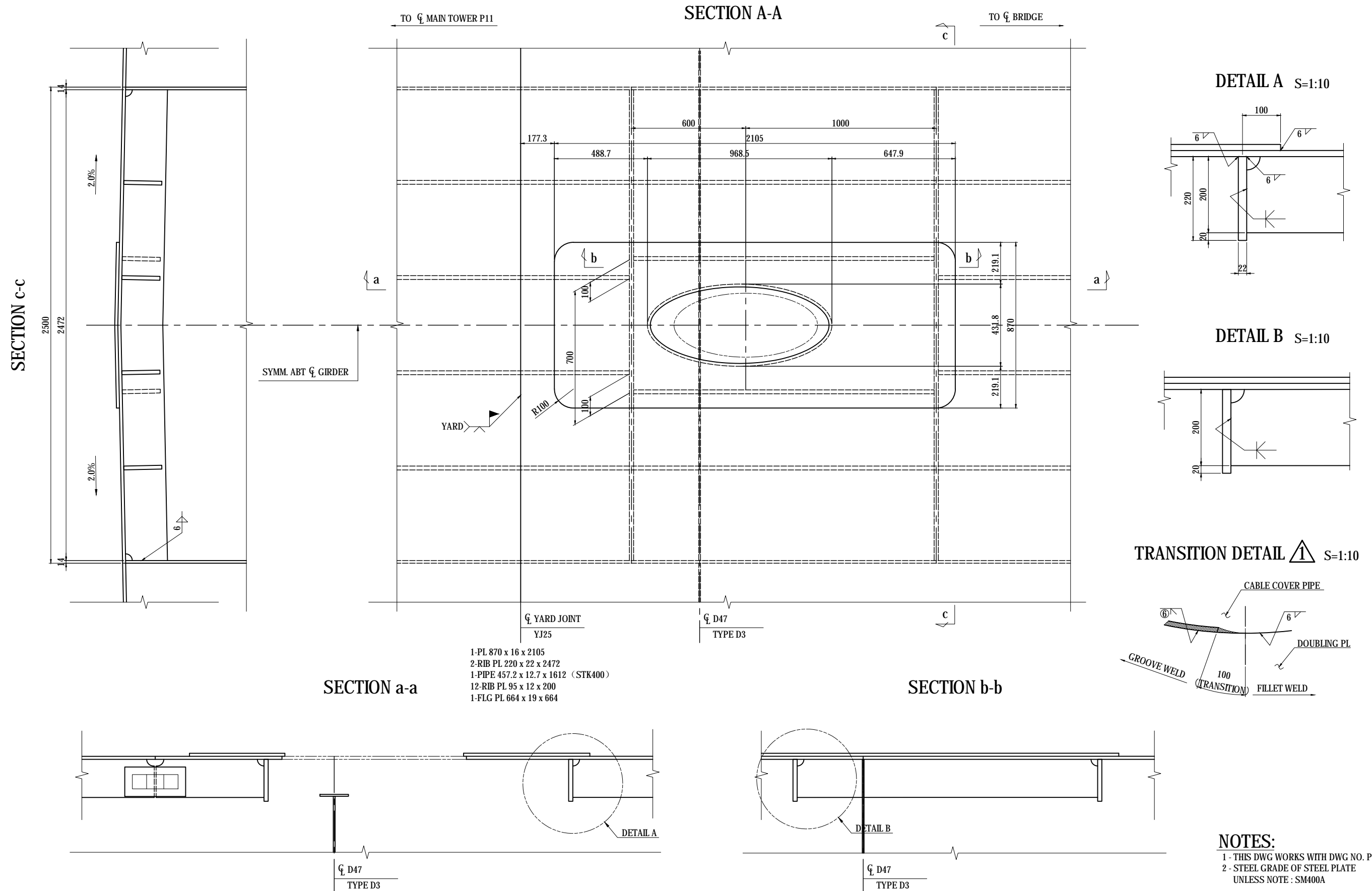


| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C20 (1)</b> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1497 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

## CABLE NO.C20 (2)

S=1:20



### NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1497.
- 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |                                       |              |
|---|--|---|--|-------------|-------------|------|---|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C20 (2) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1498 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |   |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |   |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |   |                                       | 29. Nov.2017 |

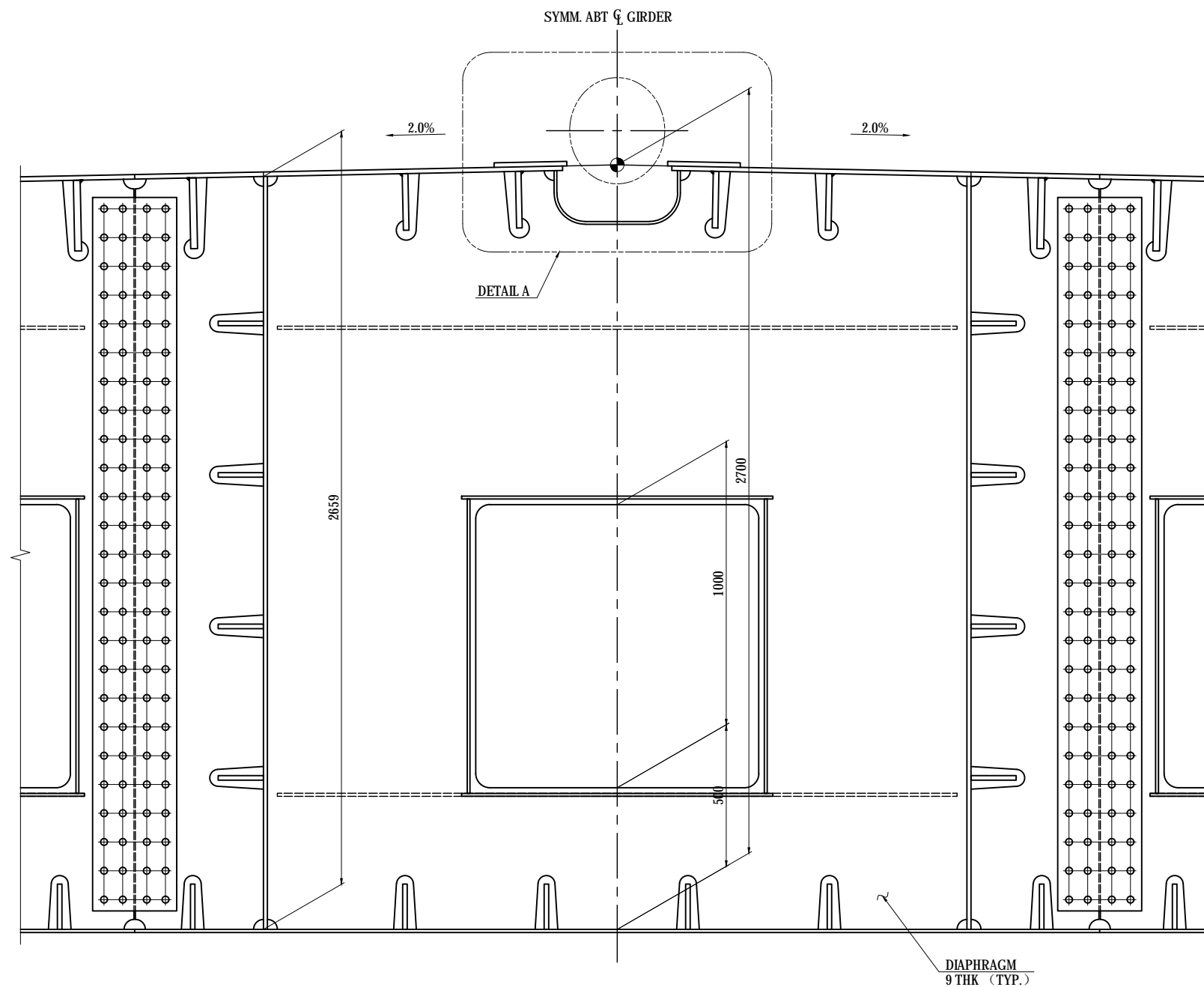
# MAIN GIRDER ANCHORAGE OF STAY CABLES

CABLE NO.C20 (3)

S=1:20

DIAPHRAGM D47

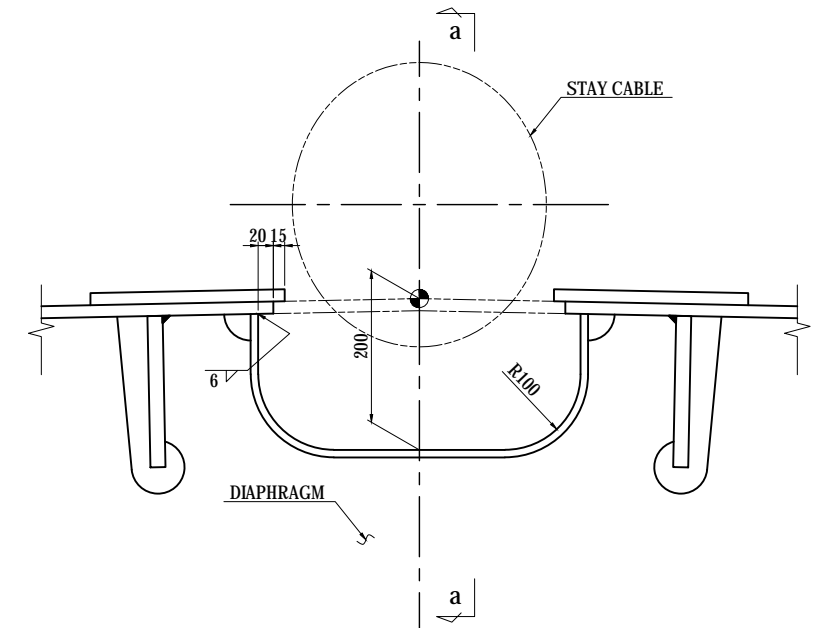
SECTION B-B



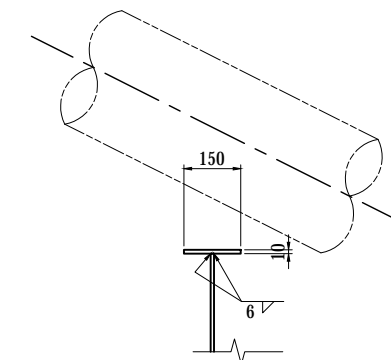
- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 2-HSTIF PL 140 x 11 x 2402
- 3-COLLAR PL 100 x 10 x 1100
- 4-COLLAR PL 90 x 10 x 1040
- 1-FLG PL 150 x 10 x 715

DIAPHRAGM  
9 THK (TYP.)

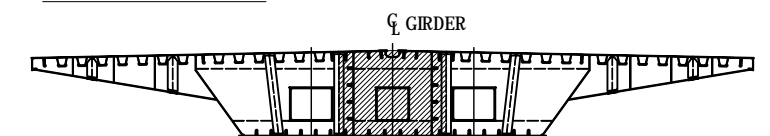
DETAIL A S=1:10



SECTION a-a S=1:20



KEY DIAGRAM



**NOTES:**

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1497.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107  
DIAPHRAGM TYPE D1.
- 3 - STEEL GRADE OF STEEL PLATE  
UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C20 (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-1499 |



# MAIN GIRDER ANCHORAGE OF STAY CABLES

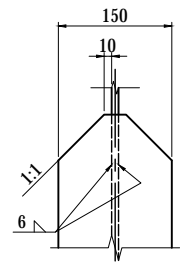
## CABLE NO.C20 (4)

S=1:20

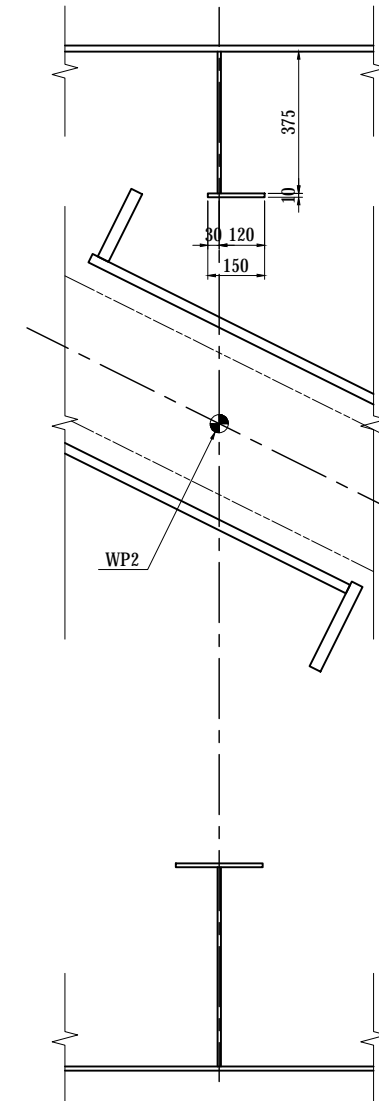
### CROSSFRAME R48 SECTION C-C

- 2-WEB PL 453 x 9 x 2659 (SM490YA)
- 2-FLG PL 150 x 10 x 1206 (SM490YA)
- 4-FLG PL 116 x 10 x 453 (SM490YA)
- 4-FLG PL 111 x 16 x 453 (SM490YA)
- 1-WEB PL 375 x 9 x 2472 (SM490YA)
- 1-FLG PL 150 x 10 x 2472 (SM490YA)
- 1-WEB PL 527 x 9 x 2472
- 1-FLG PL 230x 10 x 2472

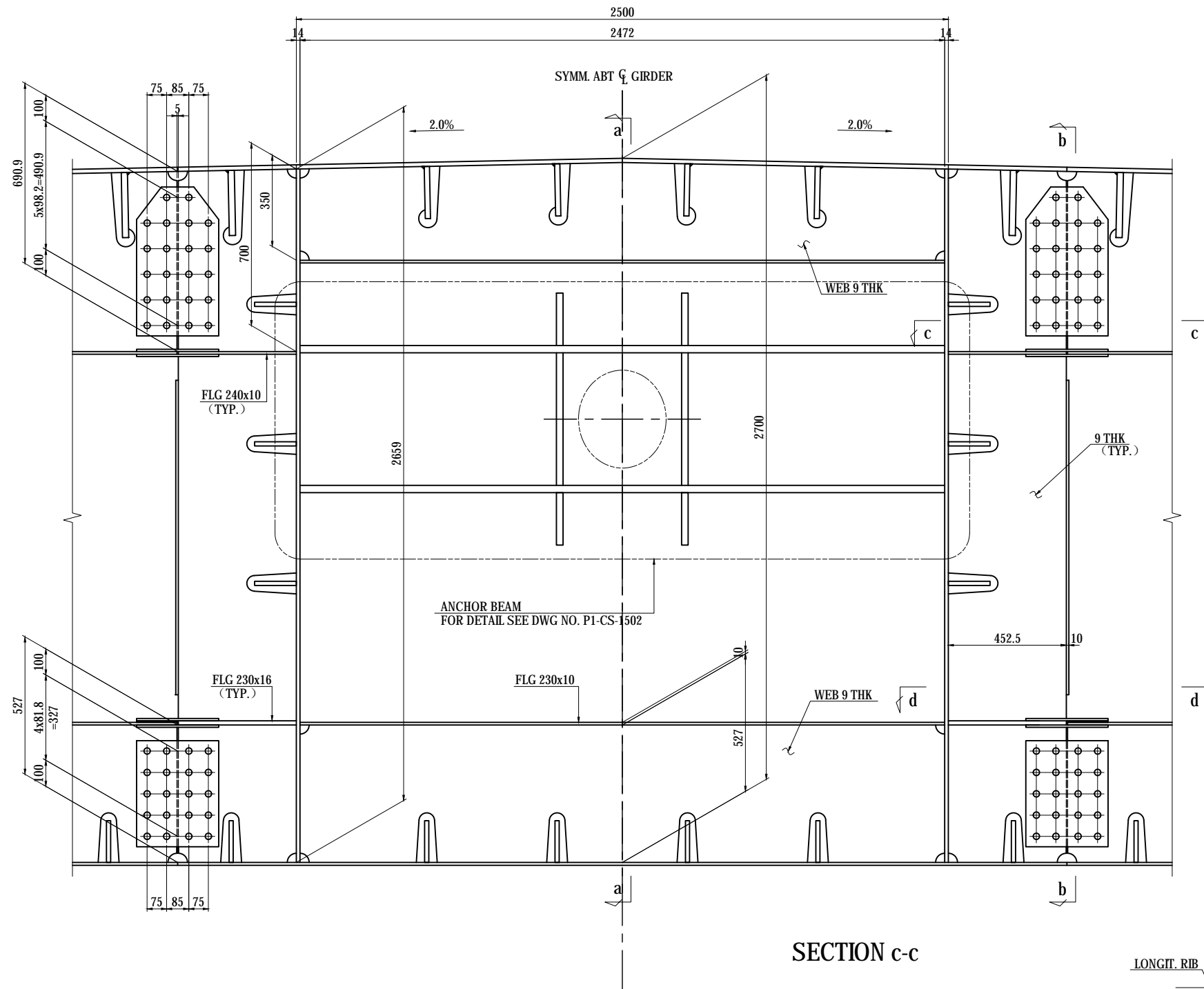
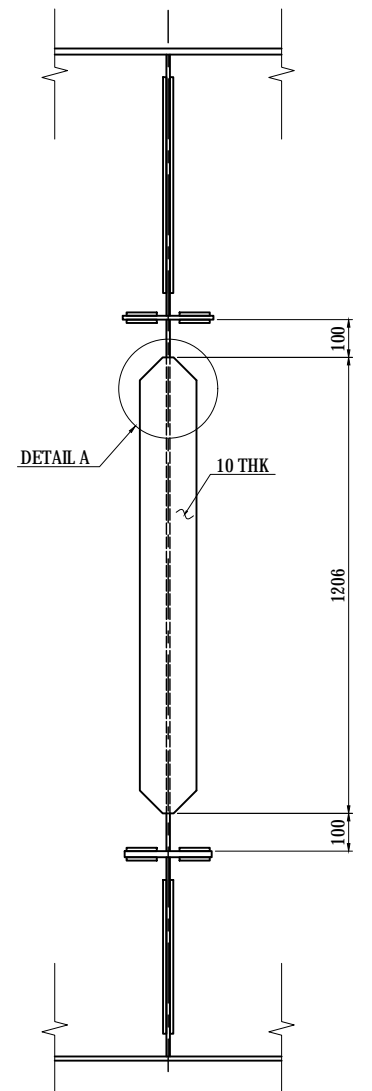
DETAIL A S=1:10



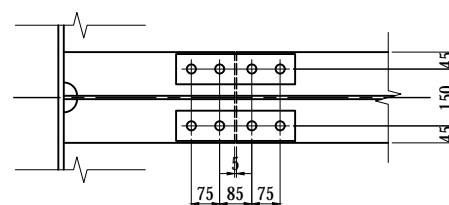
SECTION a-a



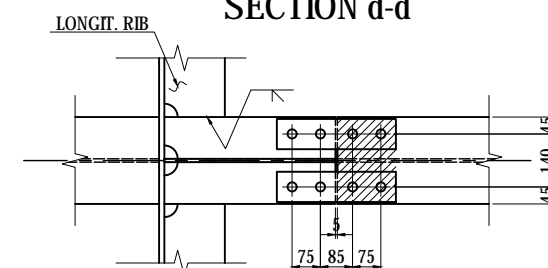
SECTION b-b



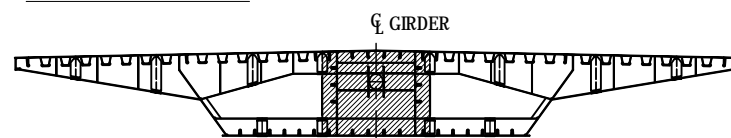
SECTION c-c



SECTION d-d



KEY DIAGRAM



NOTES:

- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1497.
- 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1108 CROSSFRAME TYPE CF1.
- 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>         CABLE NO.C20 (4)</b> | 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-1500 |

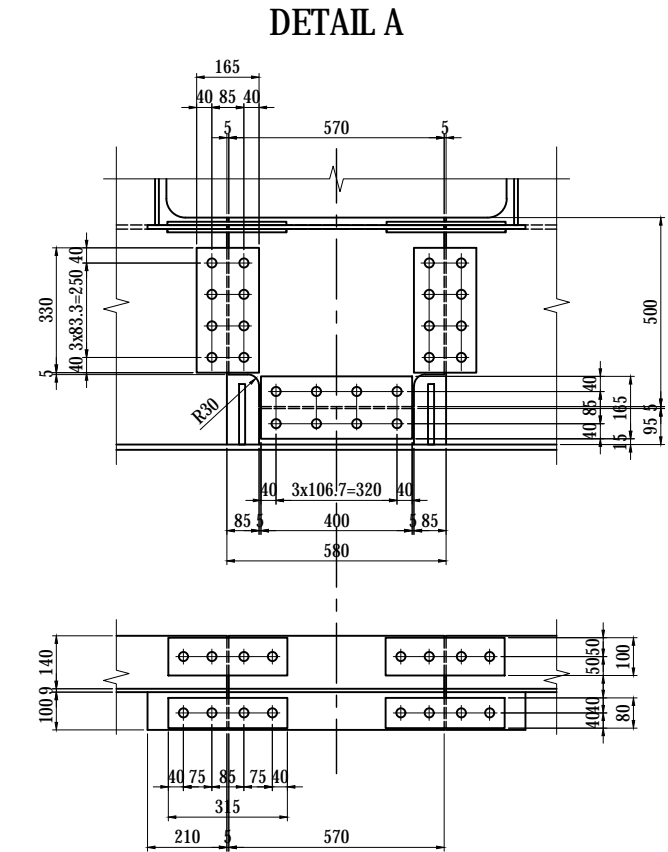
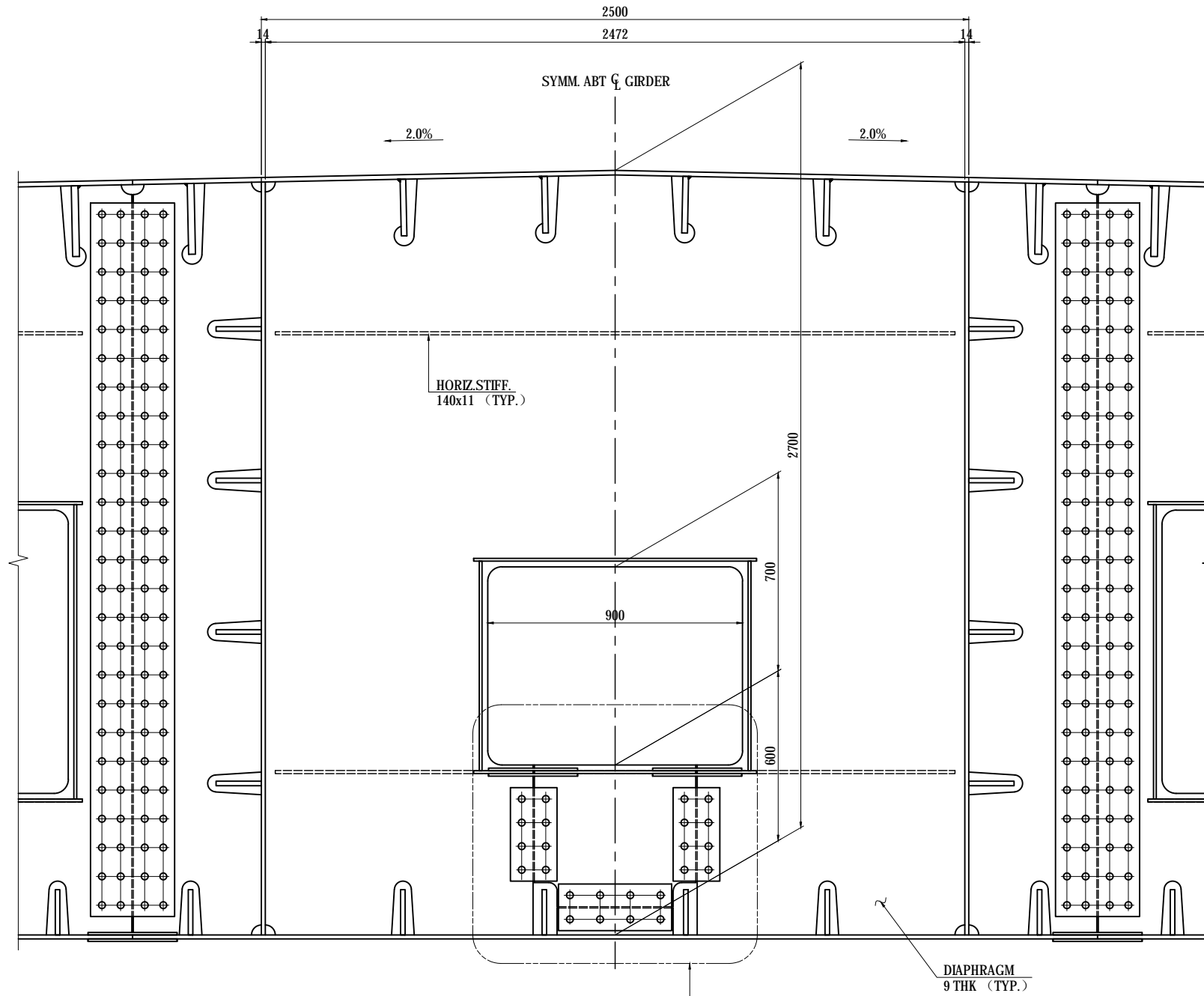
# MAIN GIRDER ANCHORAGE OF STAY CABLES

CABLE NO.C20 (5)

S=1:20

DIAPHRAGM D48

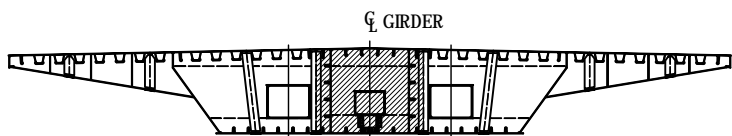
SECTION D-D



- 1-PL 95 x 9 x 410
- 1-PL 500 x 9 x 570
- 2-SPL PL 165 x 9 x 400 (SS400)
- 8-TCB M22 x 65 (S10T)
- 4-SPL PL 165 x 9 x 330 (SS400)
- 16-TCB M22 x 65 (S10T)
- 1-HSTIF PL 140 x 11 x 570
- 4-SPL PL 100 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)
- 1-COLLAR PL 100 x 10 x 570
- 2-COLLAR PL 100 x 10 x 210
- 4-SPL PL 80 x 9 x 315 (SS400)
- 8-TCB M22 x 65 (S10T)

**NOTES:**  
 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1497.  
 2 - UNLESS NOTED OTHERWISE SEE DWG NO. P1-CS-1107 DIAPHRAGM TYPE D1.  
 3 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

**KEY DIAGRAM**



- 2-DIA PL 453 x 9 x 2659
- 1-DIA PL 2472 x 9 x 2684
- 1-HSTIF PL 140 x 11 x 2402
- 2-HSTIF PL 140 x 11 x 911
- 2-COLLAR PL 100 x 10 x 1000
- 4-COLLAR PL 90 x 10 x 740

INSTALLATION AFTER ANCHOR THE STAY CABLE  
 DETAIL A

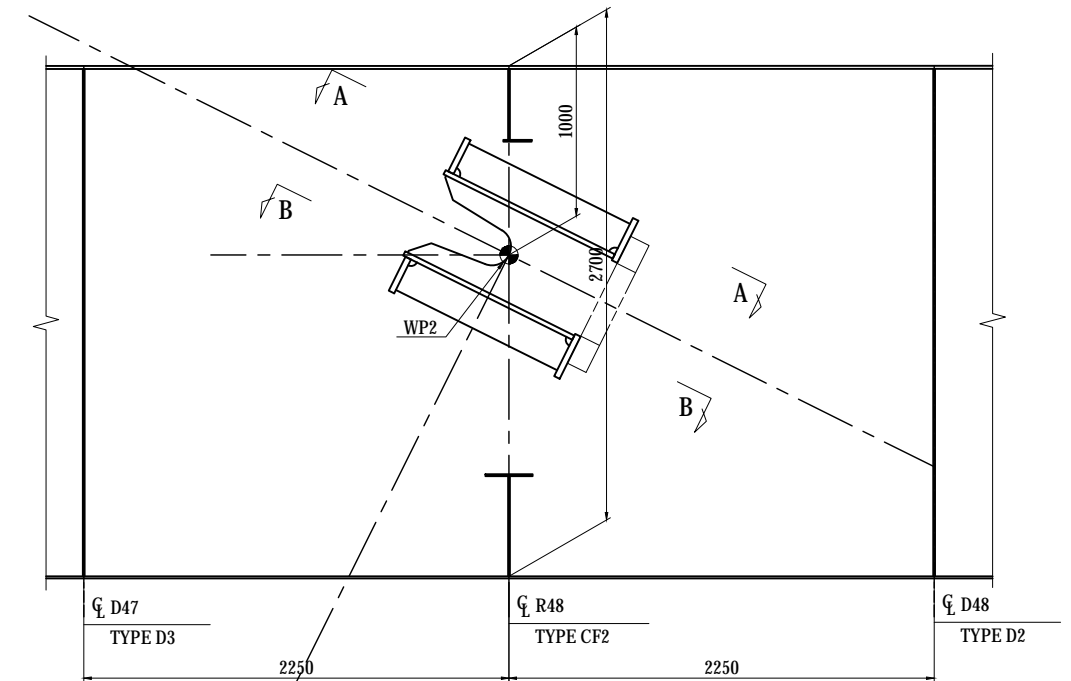
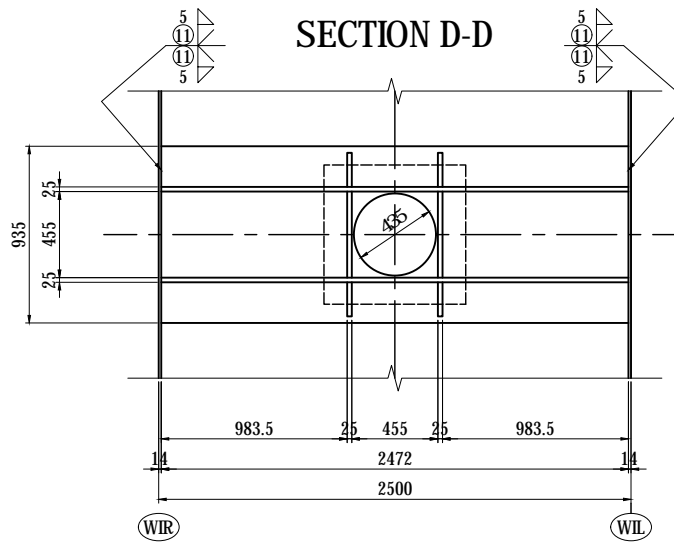
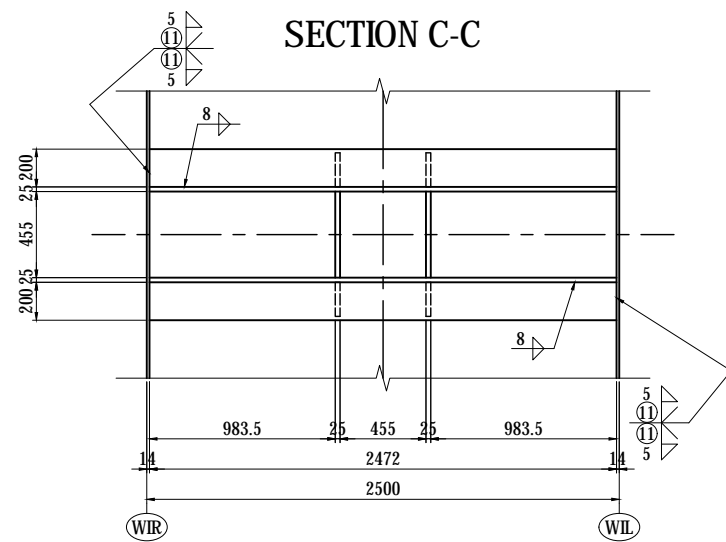
|   |  |   |  |             |             |      |   |              |            |
|---|--|---|--|-------------|-------------|------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>MAIN GIRDER ANCHORAGE OF STAY CABLES<br>CABLE NO.C20 (5) | 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-1501 |

# MAIN GIRDER ANCHORAGE OF STAY CABLES

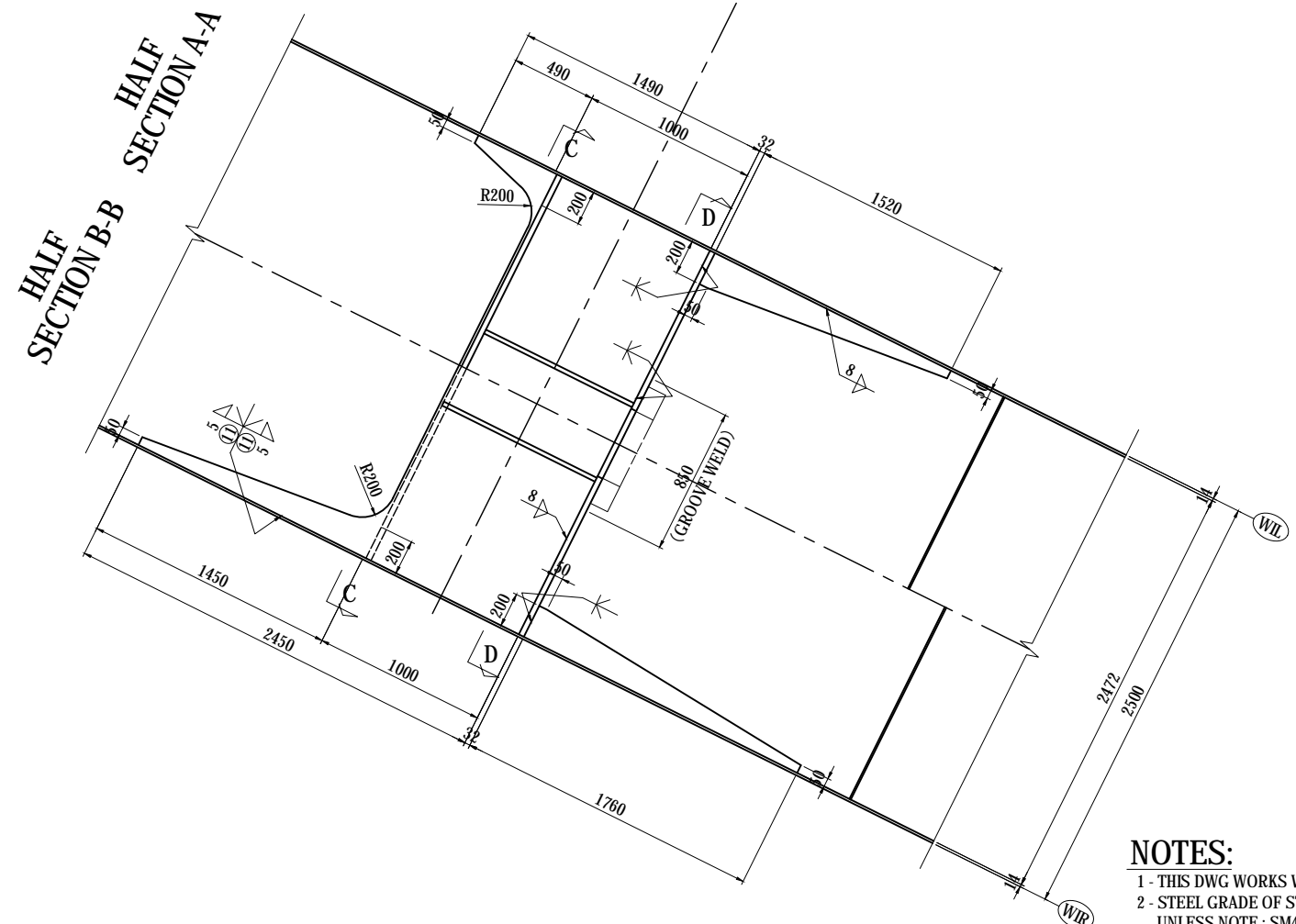
## CABLE NO.C20 (6)

S=1:40

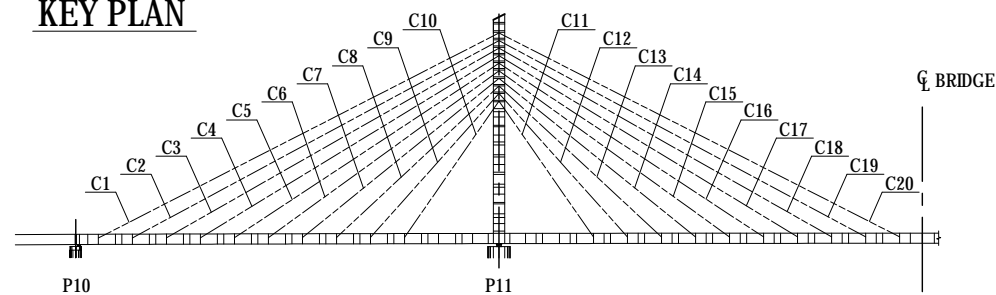
### ANCHOR BEAM C19



- 1-FLG PL 935 x 32 x 2472(SM490YB)
- 2-FLG PL 200 x 32 x 2472(SM490YB)
- 1-WEB PL 2450 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1760(SM490YB)
- 1-WEB PL 1490 x 25 x 2472(SM490YB)
- 1-RIB PL 200 x 25 x 1520(SM490YB)
- 2-RIB PL 455 x 25 x 985(SM490YB)
- 4-RIB PL 180 x 25 x 953(SM490YB)
- 1- PL 750 x 110 x 750(SM400C-H)



### KEY PLAN



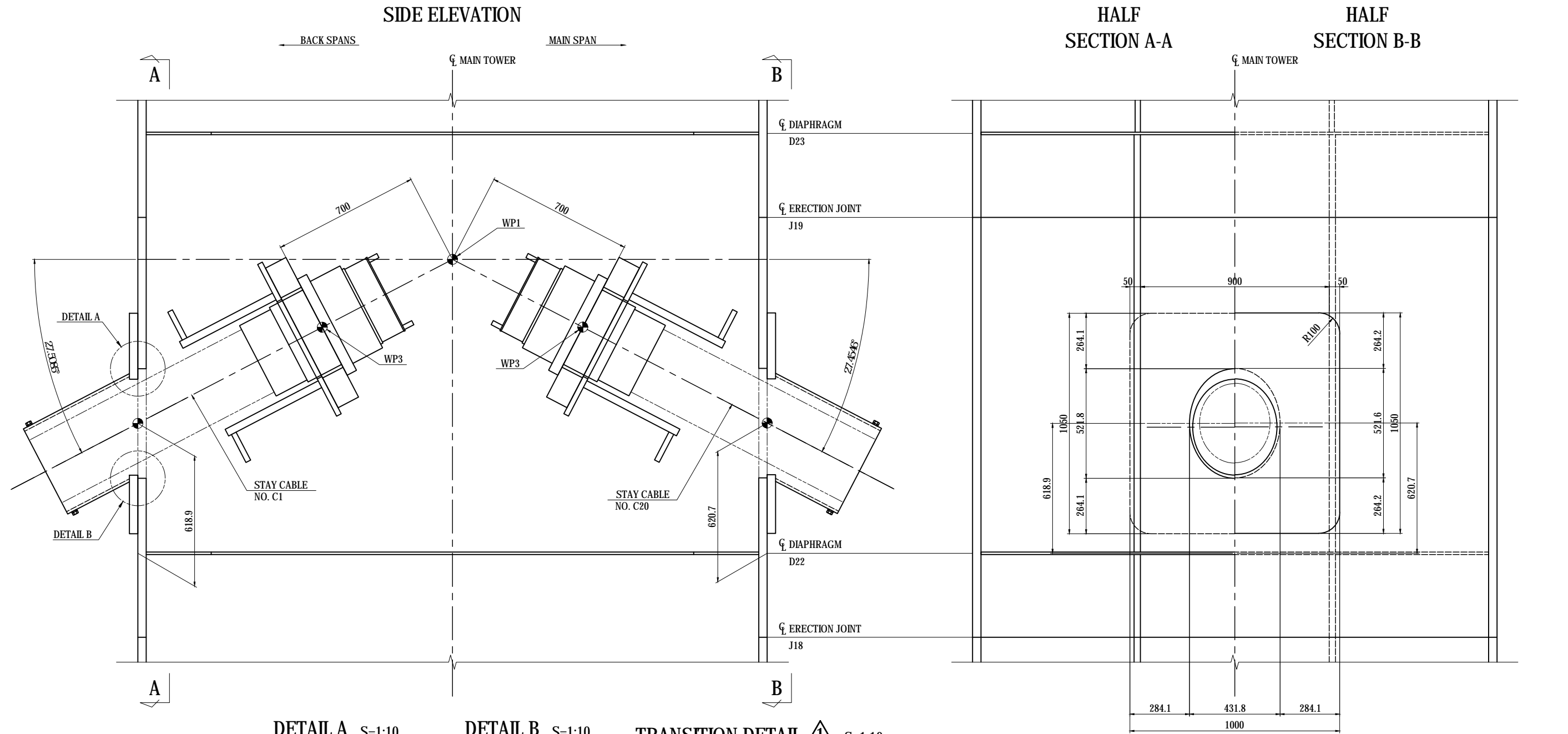
- NOTES:**
- 1 - THIS DWG WORKS WITH DWG NO. P1-CS-1500.
  - 2 - STEEL GRADE OF STEEL PLATE UNLESS NOTE : SM400A

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO.,LTD.<br>NIPPON ENGINEERING CONSULTANTS CO.,LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br><b>MAIN GIRDER ANCHORAGE OF STAY CABLES<br/>         CABLE NO.C20 (6)</b> | 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-1502 |

# MAIN TOWER ANCHORAGE OF STAY CABLES

## CABLE NO.C1 & C20 (1)

S=1:20

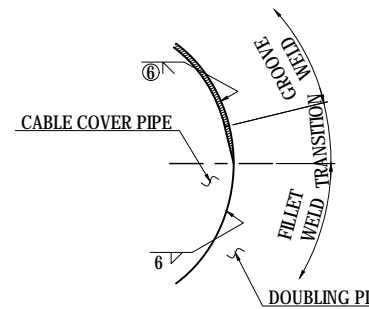
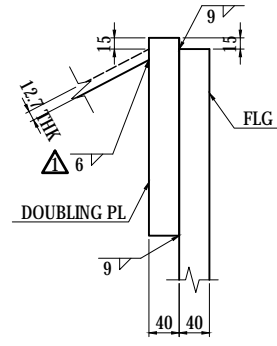
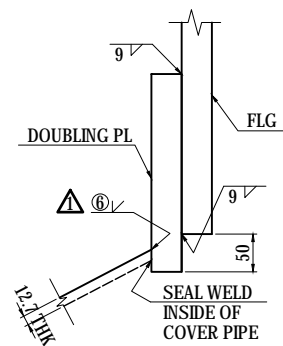


2-PL 1050 x 40 x 1000 (SM490YB)  
2-PIPE 457.2 x 12.7 x 570 (STK400)

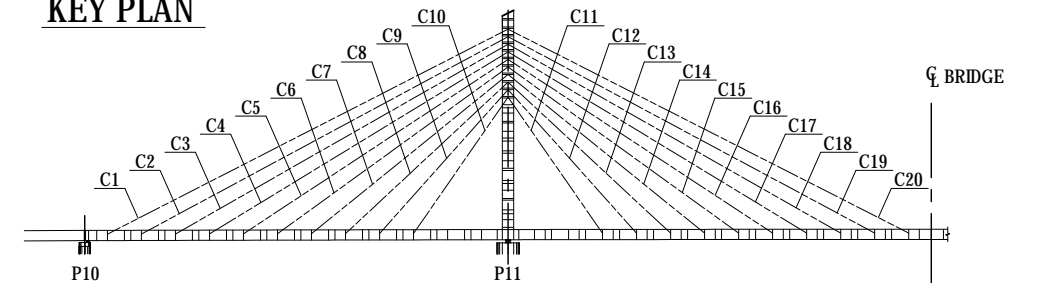
DETAIL A S=1:10

DETAIL B S=1:10

TRANSITION DETAIL S=1:10



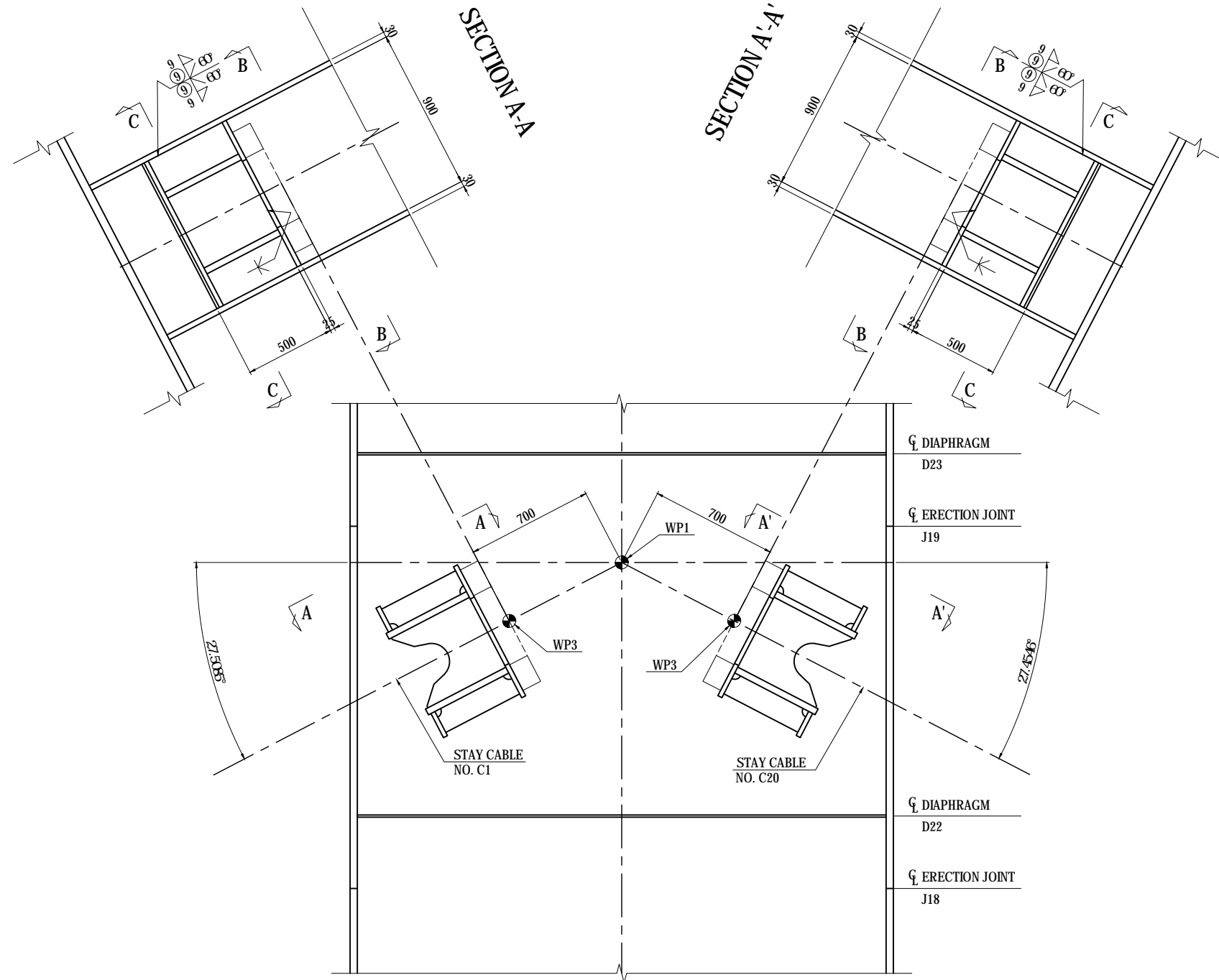
KEY PLAN



|  |  |  |   |   |                       |  |   |                                       |
|--|--|--|---|---|-----------------------|--|---|---------------------------------------|
| PROJECT NAME<br><b>DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT</b> | FINANCED BY<br><b>JAPAN INTERNATIONAL COOPERATION AGENCY</b> | COUNTERPART<br><b>REPUBLIC OF THE UNION OF MYANMAR</b><br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br><b>NIPPON KOEI CO., LTD.</b><br><b>ORIENTAL CONSULTANTS GLOBAL CO., LTD.</b><br><b>METROPOLITAN EXPRESSWAY COMPANY LIMITED</b><br><b>CHODAI CO., LTD.</b><br><b>NIPPON ENGINEERING CONSULTANTS CO., LTD.</b> | NAME<br>PREPARED BY T.TOMODA<br>CHECKED BY T. HAYAKAWA<br>APPROVED BY Y. SANO | SIGNATURE<br><br><br> | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br><b>MAIN TOWER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C1 &amp; C20 (1)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1503 |
|--|--|--|---|---|-----------------------|--|---|---------------------------------------|

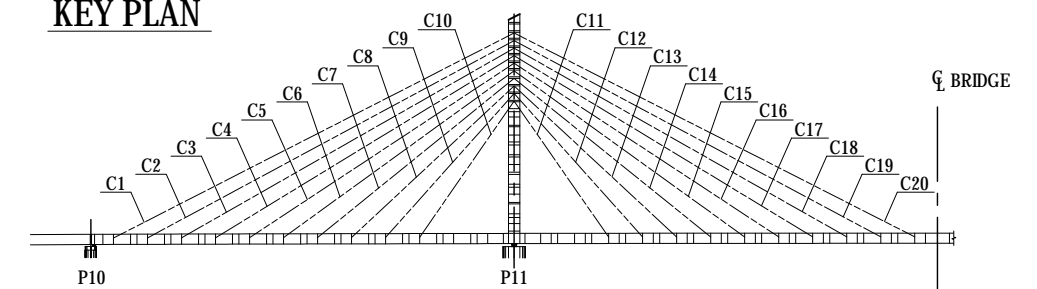
# MAIN TOWER ANCHORAGE OF STAY CABLES CABLE NO.C1 & C20 (2)

S=1:30



- 2-FLG PL 815 x 25 x 900 (SM490YB)
- 4-FLG PL 150 x 25 x 900 (SM490YB)
- 4-WEB PL 500 x 36 x 900 (SM490YB)
- 4-RIB PL 435 x 36 x 485 (SM490YB)
- 8-RIB PL 130 x 36 x 460 (SM490YB)
- 2-ANC PL 740 x 110 x 740 (SS400)

### KEY PLAN



### NOTES:

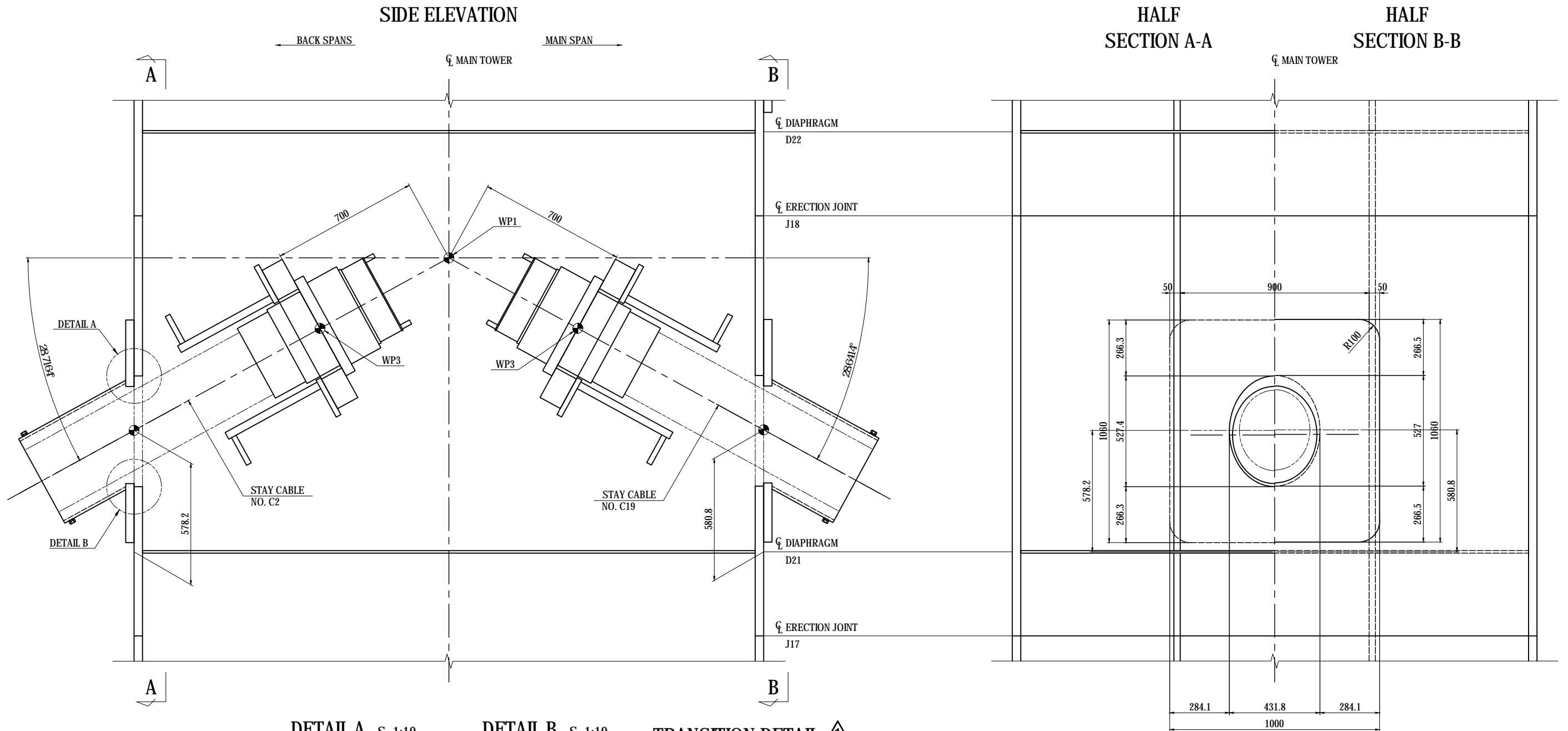
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1503.

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><b>MAIN TOWER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C1 &amp; C20 (2)</b> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1504 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|---|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |

# MAIN TOWER ANCHORAGE OF STAY CABLES

## CABLE NO.C2 & C19 (1)

S=1:20

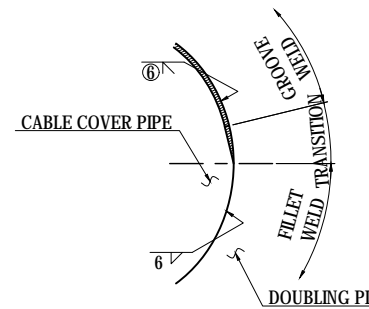
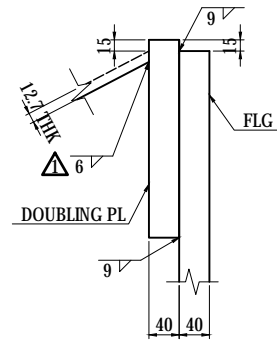
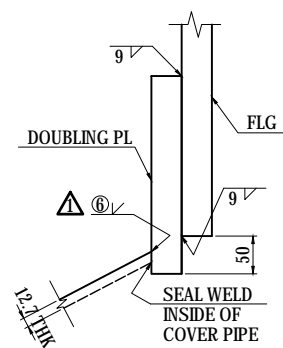


2-PL 1060 x 40 x 1000 (SM490YB)  
2-PIPE 457.2 x 12.7 x 581 (STK400)

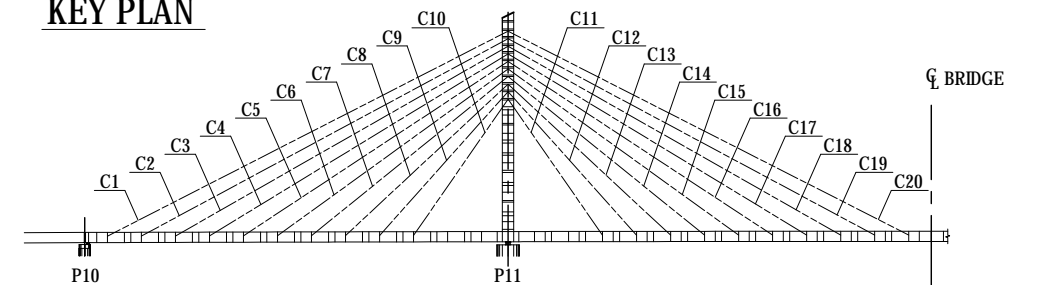
**DETAIL A** S=1:10

**DETAIL B** S=1:10

**TRANSITION DETAIL**  $\triangle$  S=1:10



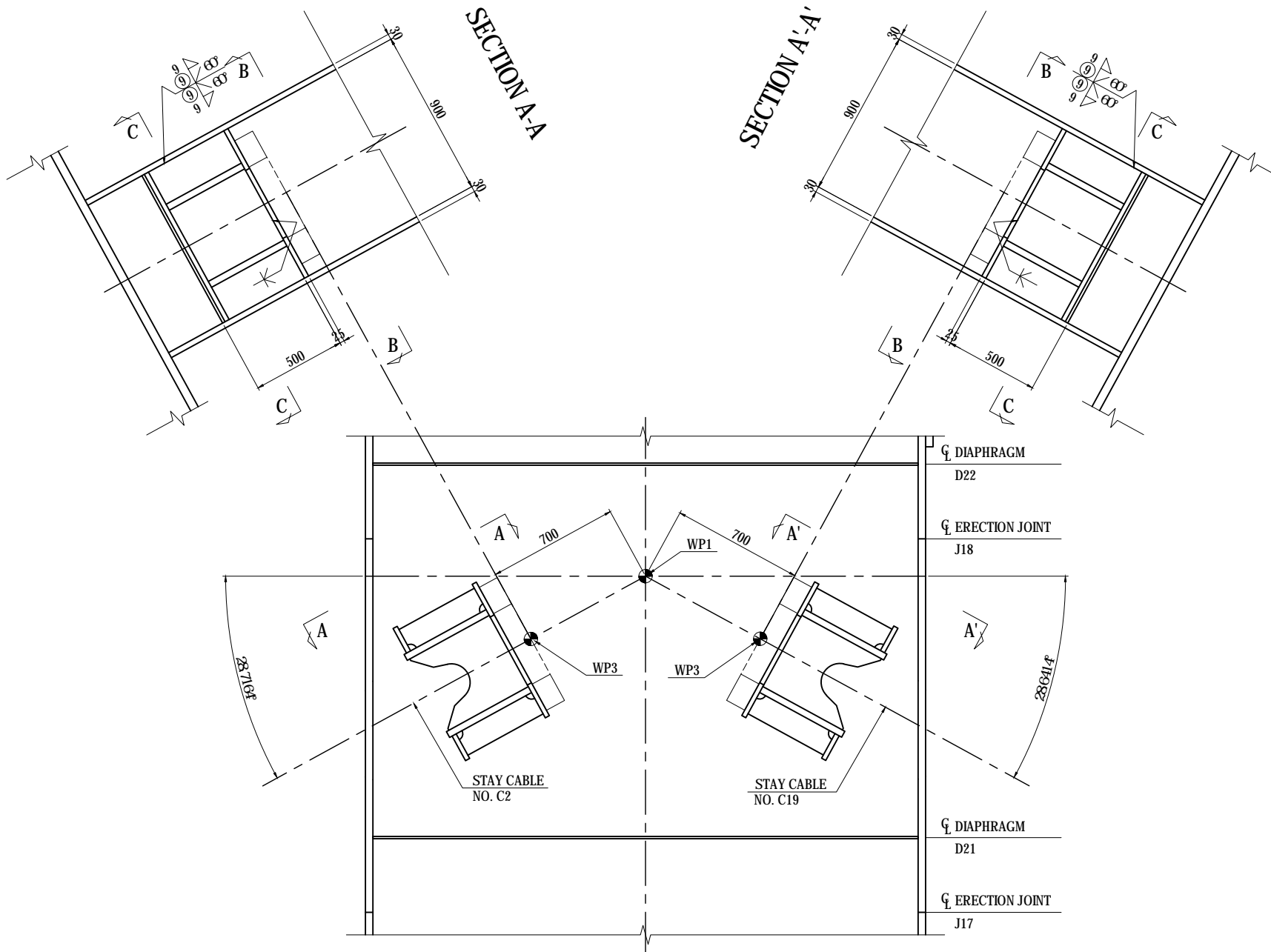
**KEY PLAN**



| <p>PROJECT NAME<br/>DETAILED DESIGN ON<br/>BAGO RIVER BRIDGE<br/>CONSTRUCTION PROJECT</p> | <p>FINANCED BY<br/> JAPAN INTERNATIONAL<br/>COOPERATION AGENCY</p> | <p>COUNTERPART<br/> REPUBLIC OF THE UNION OF MYANMAR<br/>MINISTRY OF CONSTRUCTION<br/>DEPARTMENT OF BRIDGE</p> | <p>JICA STUDY TEAM<br/> NIPPON KOEI CO., LTD.<br/> ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br/> METROPOLITAN EXPRESSWAY COMPANY LIMITED<br/> CHODAI CO., LTD.<br/> NIPPON ENGINEERING CONSULTANTS CO., LTD.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | <p style="text-align: center;">DRAWING TITLE</p> <p style="text-align: center;"><b>MAIN TOWER ANCHORAGE OF STAY CABLES</b><br/><b>CABLE NO.C2 &amp; C19 (1)</b></p> | <p>PACKAGE</p> <p style="text-align: center;">1</p> <p>DWG No.</p> <p>P1-CS-1505</p> |
|---|--|--|---|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|---|--|
| NAME  | SIGNATURE  | DATE   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |  |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |  |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |  |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |   |  |

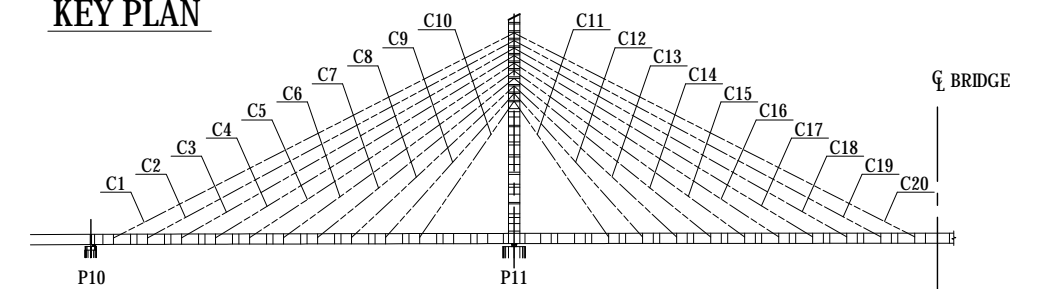
# MAIN TOWER ANCHORAGE OF STAY CABLES CABLE NO.C2 & C19 (2)

S=1:30



- 2-FLG PL 815 x 25 x 900 (SM490YB)
- 4-FLG PL 150 x 25 x 900 (SM490YB)
- 4-WEB PL 500 x 36 x 900 (SM490YB)
- 4-RIB PL 435 x 36 x 485 (SM490YB)
- 8-RIB PL 130 x 36 x 460 (SM490YB)
- 2-ANC PL 740 x 110 x 740 (SS400)

### KEY PLAN



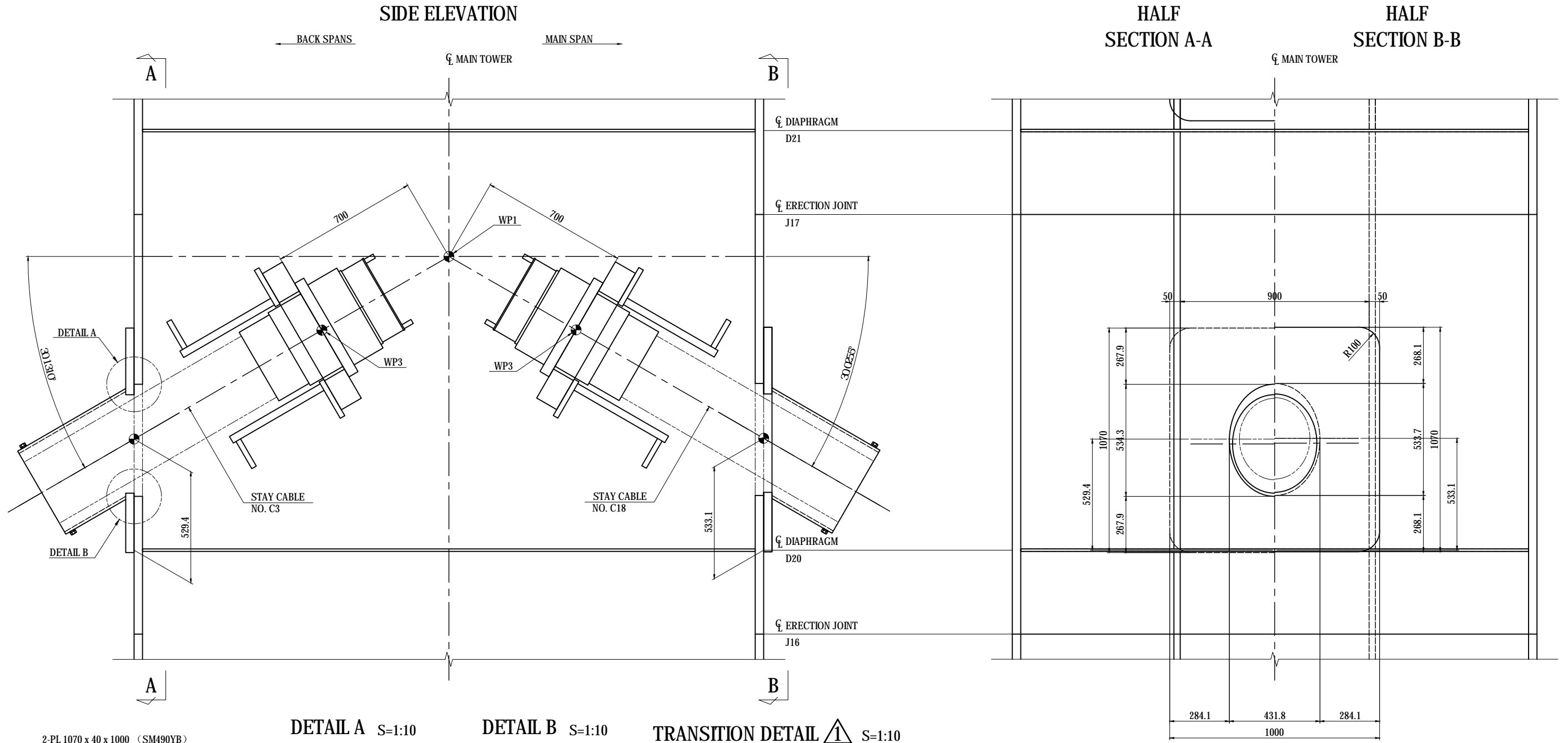
### NOTES:

1 - THIS DWG WORKS WITH DWG NO. P1-CS-1505.

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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>友田 智雄</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>平川 知平</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>佐野 祐一</td> </tr> </table> | NAME | SIGNATURE | DATE | PREPARED BY | T.TOMODA | 友田 智雄 | CHECKED BY | T. HAYAKAWA | 平川 知平 | APPROVED BY | Y. SANO | 佐野 祐一 | <small>DRAWING TITLE</small><br><b>MAIN TOWER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C2 &amp; C19 (2)</b> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1506 |
|--|---|--|---|---|------|-----------|------|-------------|----------|-------|------------|-------------|-------|-------------|---------|-------|--|--|
| NAME   | SIGNATURE   | DATE   |   |   |      |           |      |             |          |       |            |             |       |             |         |       |  |  |
| PREPARED BY  | T.TOMODA  | 友田 智雄  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |  |  |
| CHECKED BY   | T. HAYAKAWA   | 平川 知平  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |  |  |
| APPROVED BY  | Y. SANO   | 佐野 祐一  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |  |  |

# MAIN TOWER ANCHORAGE OF STAY CABLES CABLE NO.C3 & C18 (1)

S=1:20

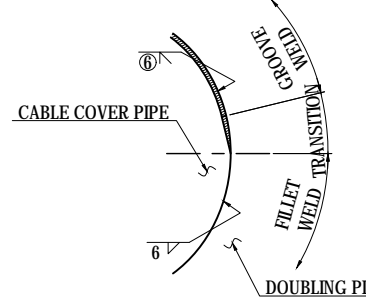
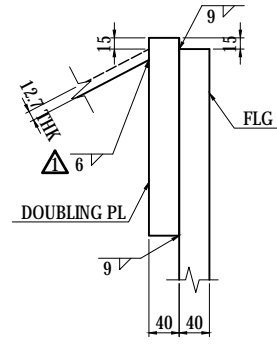
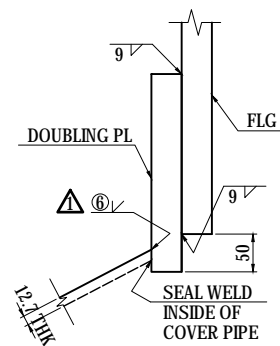


2-PL 1070 x 40 x 1000 (SM490YB)  
1-PIPE 457.2 x 12.7 x 595 (STK400)  
1-PIPE 457.2 x 12.7 x 594 (STK400)

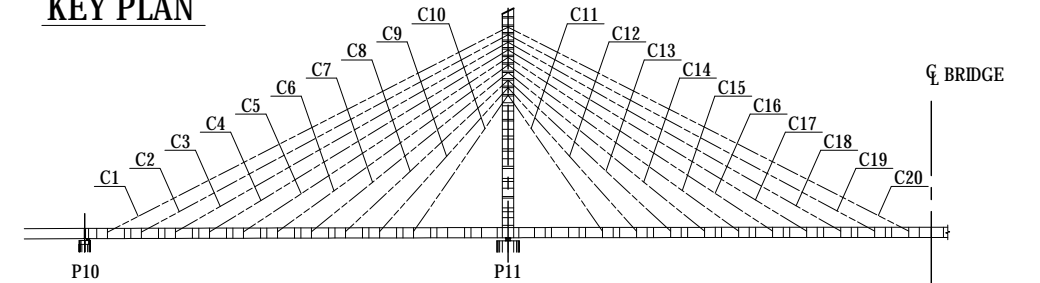
**DETAIL A S=1:10**

**DETAIL B S=1:10**

**TRANSITION DETAIL ① S=1:10**



**KEY PLAN**



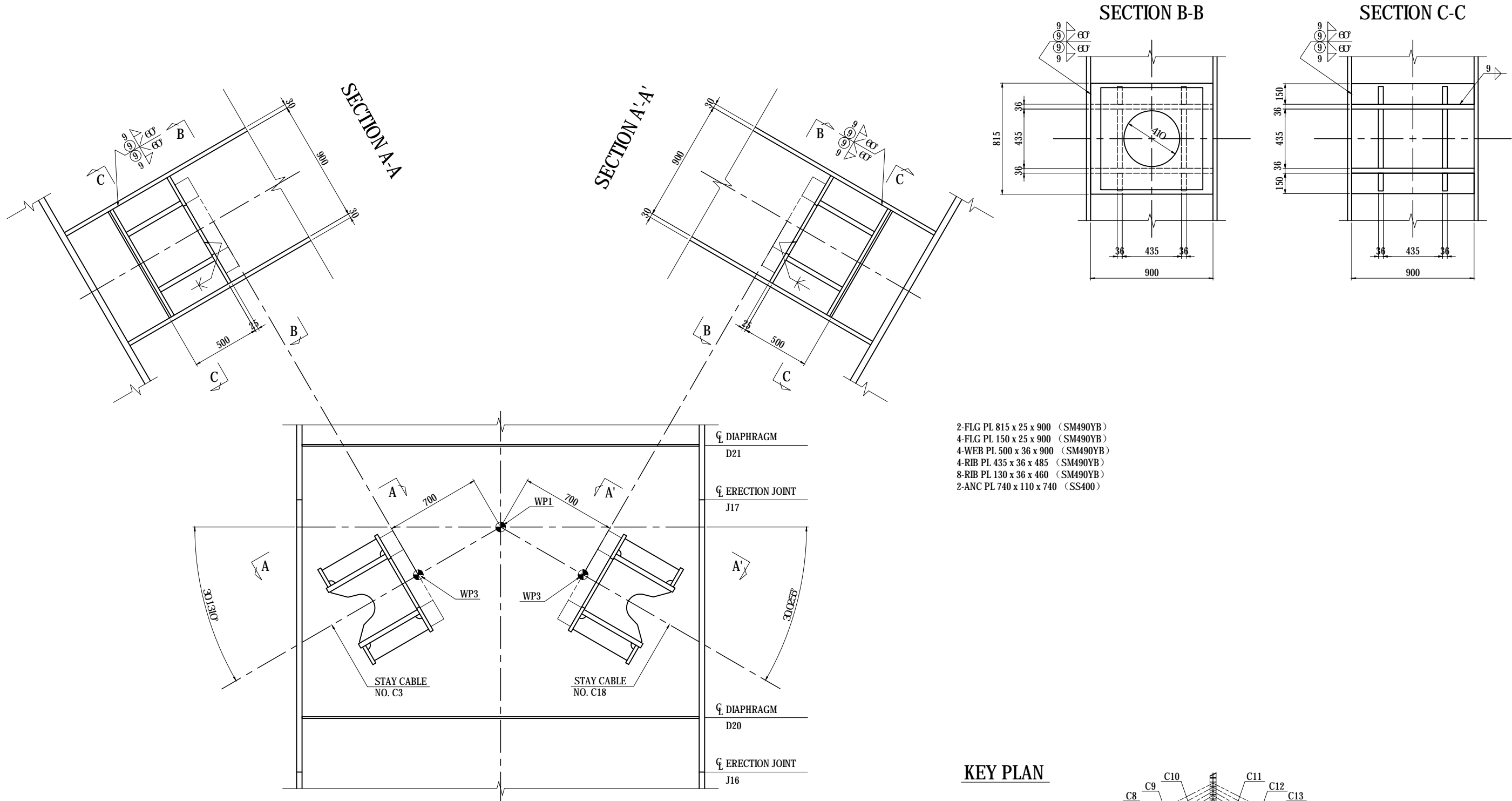
| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 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 | <small>DRAWING TITLE</small><br><b>MAIN TOWER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C3 &amp; C18 (1)</b> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1507 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|---|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |



# MAIN TOWER ANCHORAGE OF STAY CABLES

## CABLE NO.C3 & C18 (2)

S=1:30



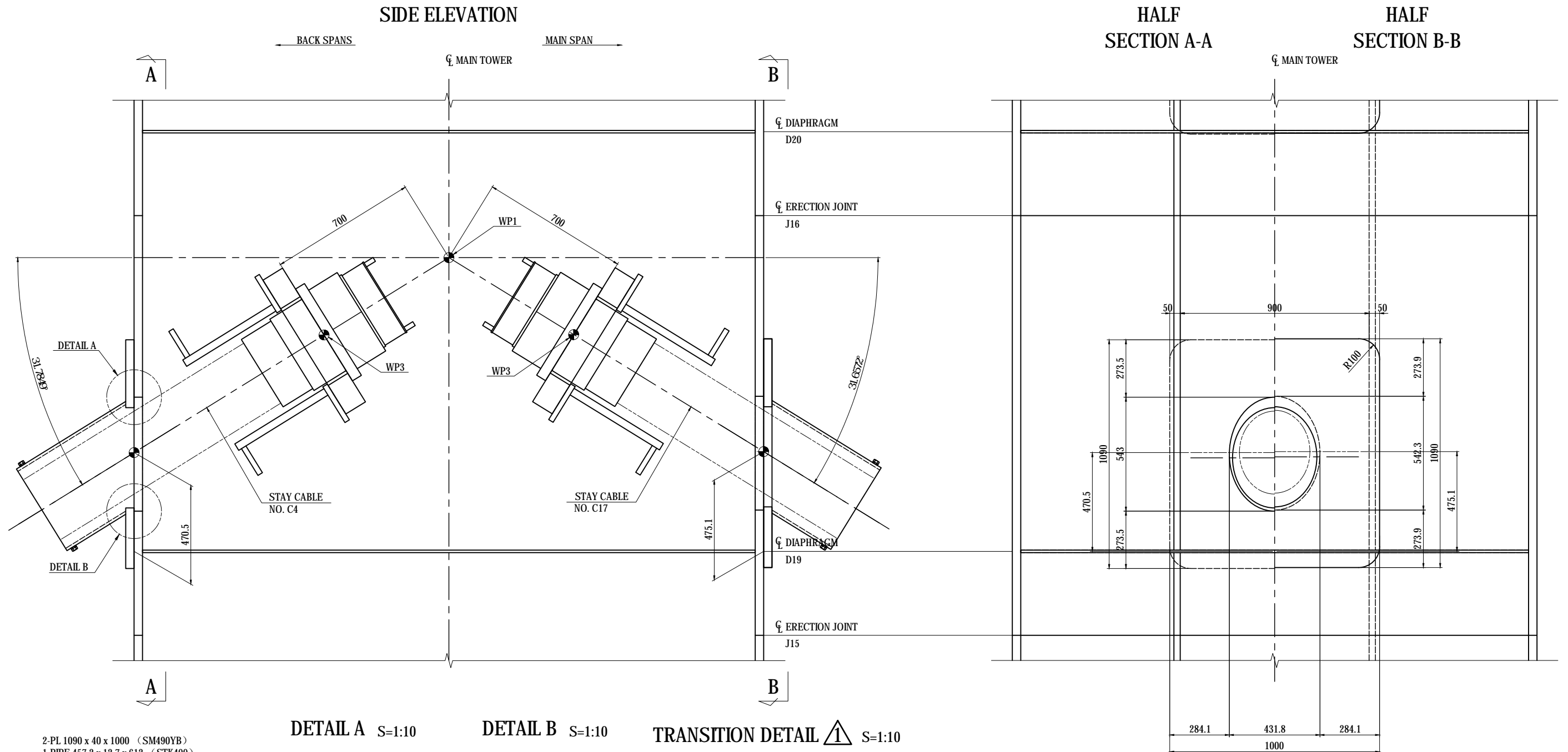
**NOTES:**

1 - THIS DWG WORKS WITH DWG NO. P1-CS-1507.

| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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<br><h3 style="text-align: center;">MAIN TOWER ANCHORAGE OF STAY CABLES</h3> <h4 style="text-align: center;">CABLE NO.C3 &amp; C18 (2)</h4> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1508 |
|---|--|---|--|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|---------------------------------------|
|   | NAME   | SIGNATURE   | DATE   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |
| PREPARED BY   | T.TOMODA   |   | 27. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |
| CHECKED BY  | T. HAYAKAWA  |   | 28. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |
| APPROVED BY   | Y. SANO  |   | 29. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |                                       |

# MAIN TOWER ANCHORAGE OF STAY CABLES CABLE NO.C4 & C17 (1)

S=1:20

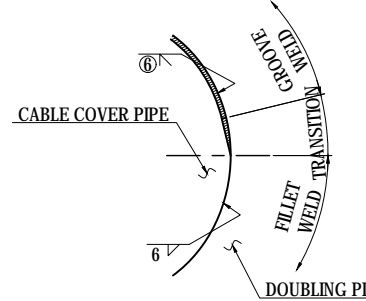
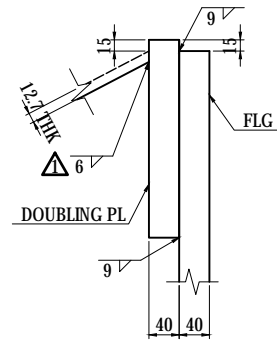
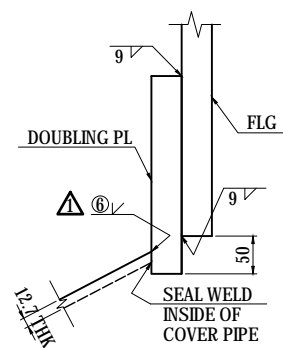


2-PL 1090 x 40 x 1000 (SM490YB)  
1-PIPE 457.2 x 12.7 x 612 (STK400)  
1-PIPE 457.2 x 12.7 x 611 (STK400)

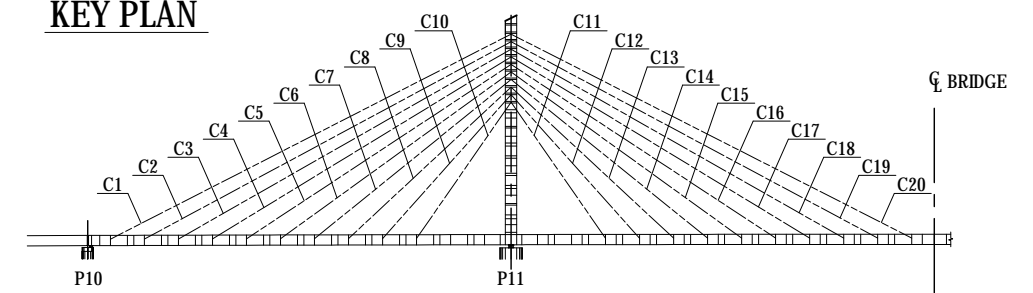
**DETAIL A** S=1:10

**DETAIL B** S=1:10

**TRANSITION DETAIL ①** S=1:10



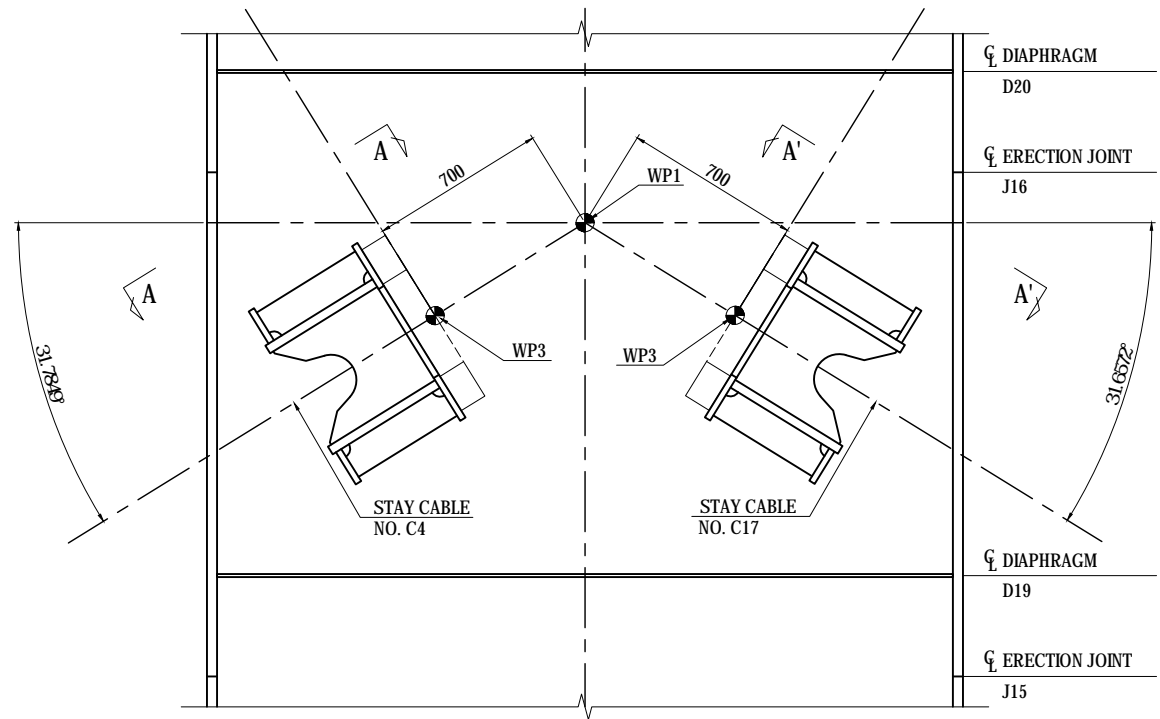
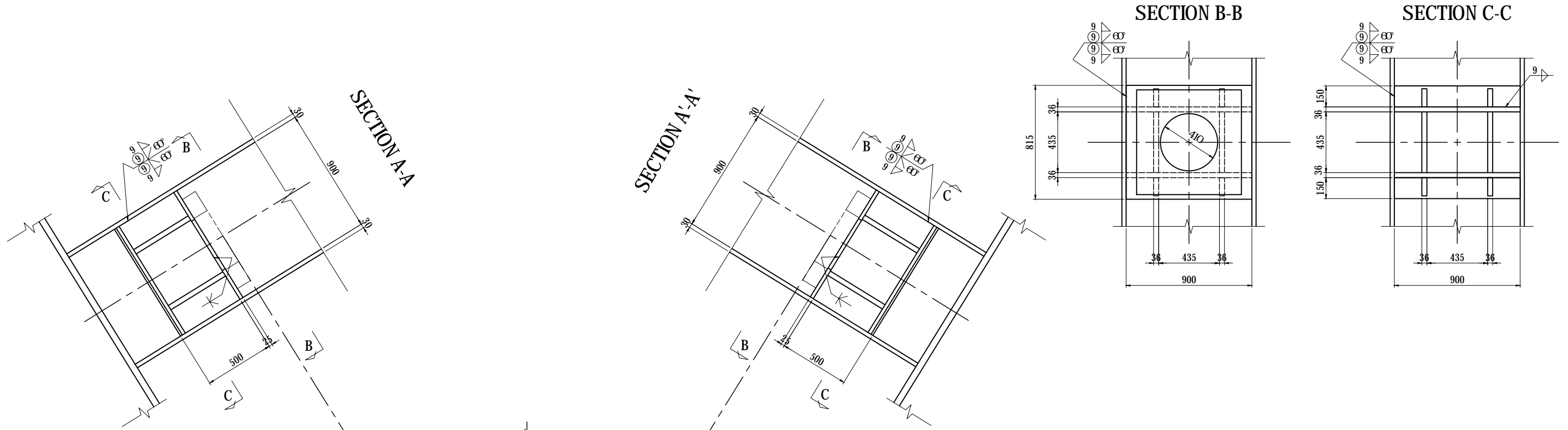
**KEY PLAN**



| <p>PROJECT NAME<br/>DETAILED DESIGN ON<br/>BAGO RIVER BRIDGE<br/>CONSTRUCTION PROJECT</p> | <p>FINANCED BY<br/> JAPAN INTERNATIONAL<br/>COOPERATION AGENCY</p> | <p>COUNTERPART<br/> REPUBLIC OF THE UNION OF MYANMAR<br/>MINISTRY OF CONSTRUCTION<br/>DEPARTMENT OF BRIDGE</p> | <p>JICA STUDY TEAM<br/> NIPPON KOEI CO., LTD.<br/> ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br/> METROPOLITAN EXPRESSWAY COMPANY LIMITED<br/> CHODAI CO., LTD.<br/> NIPPON ENGINEERING CONSULTANTS CO., LTD.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | <p style="text-align: center;">DRAWING TITLE</p> <p style="text-align: center;"><b>MAIN TOWER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C4 &amp; C17 (1)</b></p> | <p>PACKAGE</p> <p style="text-align: center;">1<br/>DWG No.<br/>P1-CS-1509</p> |
|---|--|--|---|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|--|--|
| NAME  | SIGNATURE  | DATE   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |  |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |  |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |  |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |  |

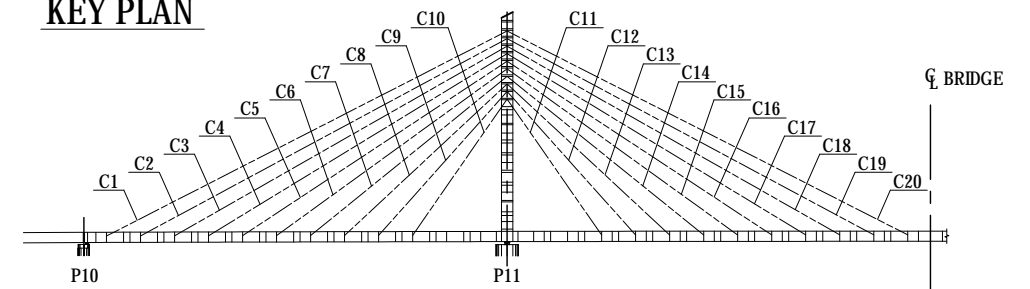
# MAIN TOWER ANCHORAGE OF STAY CABLES CABLE NO.C4 & C17 (2)

S=1:30



- 2-FLG PL 815 x 25 x 900 (SM490YB)
- 4-FLG PL 150 x 25 x 900 (SM490YB)
- 4-WEB PL 500 x 36 x 900 (SM490YB)
- 4-RIB PL 435 x 36 x 485 (SM490YB)
- 8-RIB PL 130 x 36 x 460 (SM490YB)
- 2-ANC PL 740 x 110 x 740 (SS400)

### KEY PLAN



### NOTES:

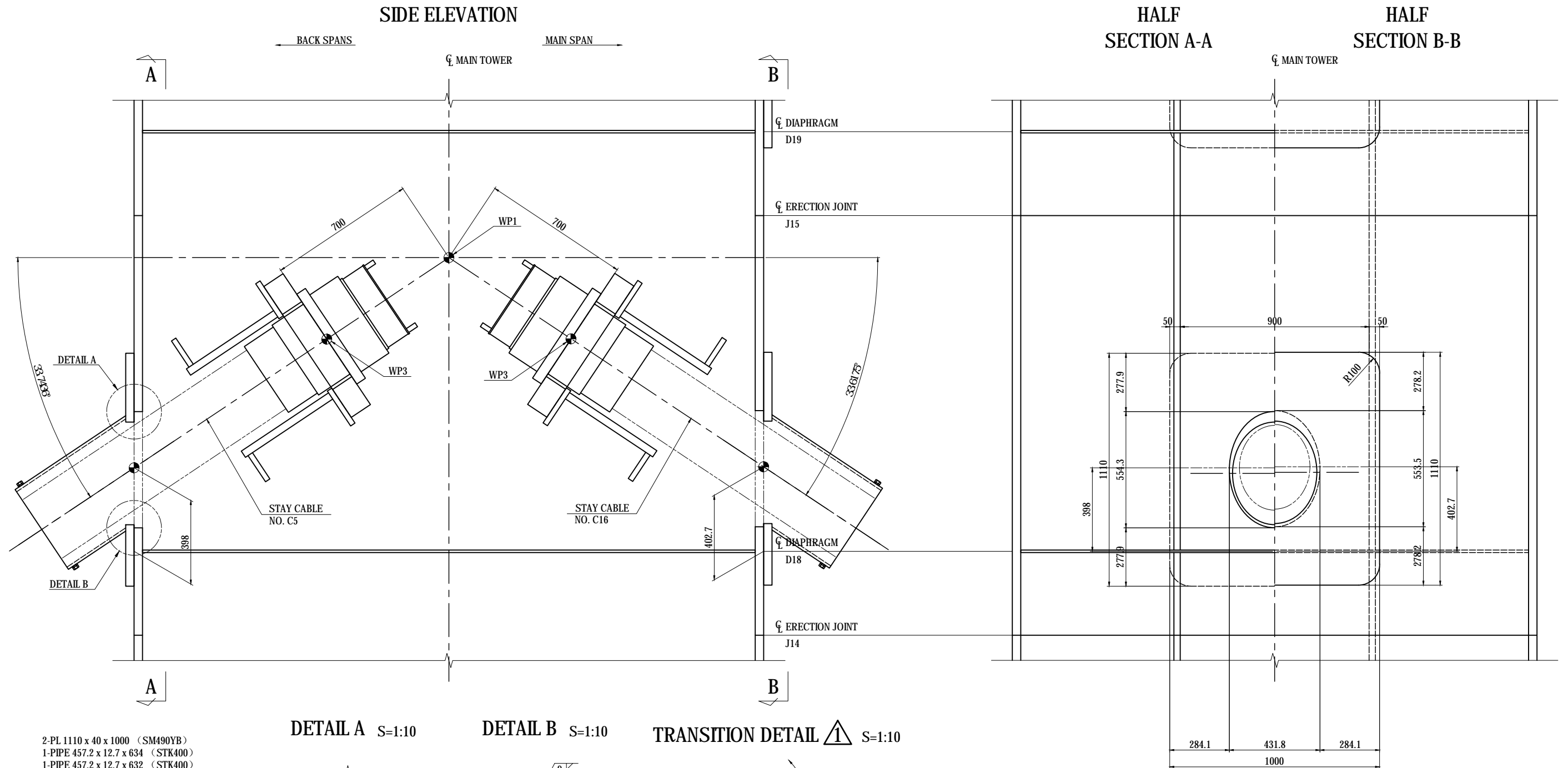
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1509.

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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>友田 隆雄</td> </tr> <tr> <td>CHECKED BY</td> <td>T. HAYAKAWA</td> <td>平川 知平</td> </tr> <tr> <td>APPROVED BY</td> <td>Y. SANO</td> <td>佐野 隆一</td> </tr> </table> | NAME | SIGNATURE | DATE | PREPARED BY | T.TOMODA | 友田 隆雄 | CHECKED BY | T. HAYAKAWA | 平川 知平 | APPROVED BY | Y. SANO | 佐野 隆一 | <small>DRAWING TITLE</small><br><b>MAIN TOWER ANCHORAGE OF STAY CABLES<br/>                 CABLE NO.C4 &amp; C17 (2)</b> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1510 |
|--|---|--|---|---|------|-----------|------|-------------|----------|-------|------------|-------------|-------|-------------|---------|-------|---|--|
| NAME   | SIGNATURE   | DATE   |   |   |      |           |      |             |          |       |            |             |       |             |         |       |   |  |
| PREPARED BY  | T.TOMODA  | 友田 隆雄  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |   |  |
| CHECKED BY   | T. HAYAKAWA   | 平川 知平  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |   |  |
| APPROVED BY  | Y. SANO   | 佐野 隆一  |   |   |      |           |      |             |          |       |            |             |       |             |         |       |   |  |

# MAIN TOWER ANCHORAGE OF STAY CABLES

## CABLE NO.C5 & C16 (1)

S=1:20

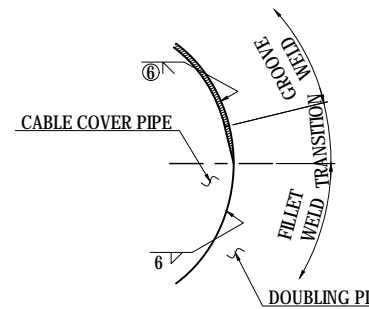
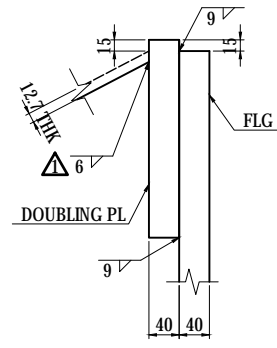
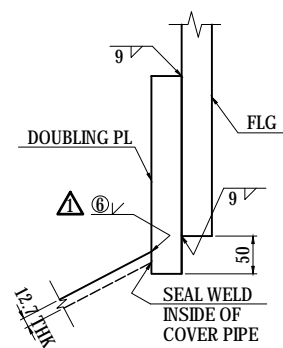


- 2-PL 1110 x 40 x 1000 (SM490YB)
- 1-PIPE 457.2 x 12.7 x 634 (STK400)
- 1-PIPE 457.2 x 12.7 x 632 (STK400)

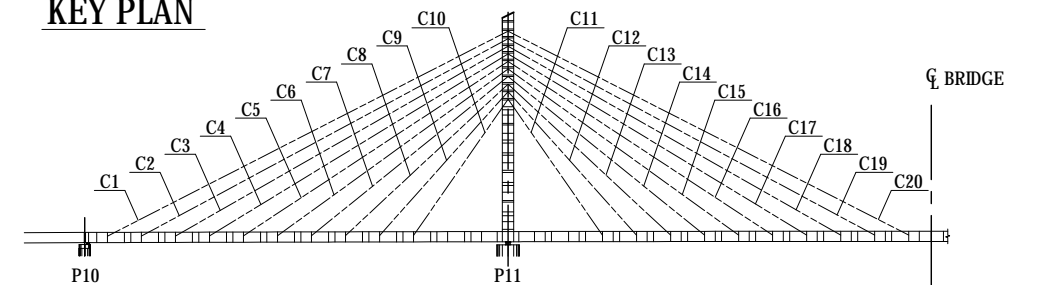
**DETAIL A** S=1:10

**DETAIL B** S=1:10

**TRANSITION DETAIL ①** S=1:10



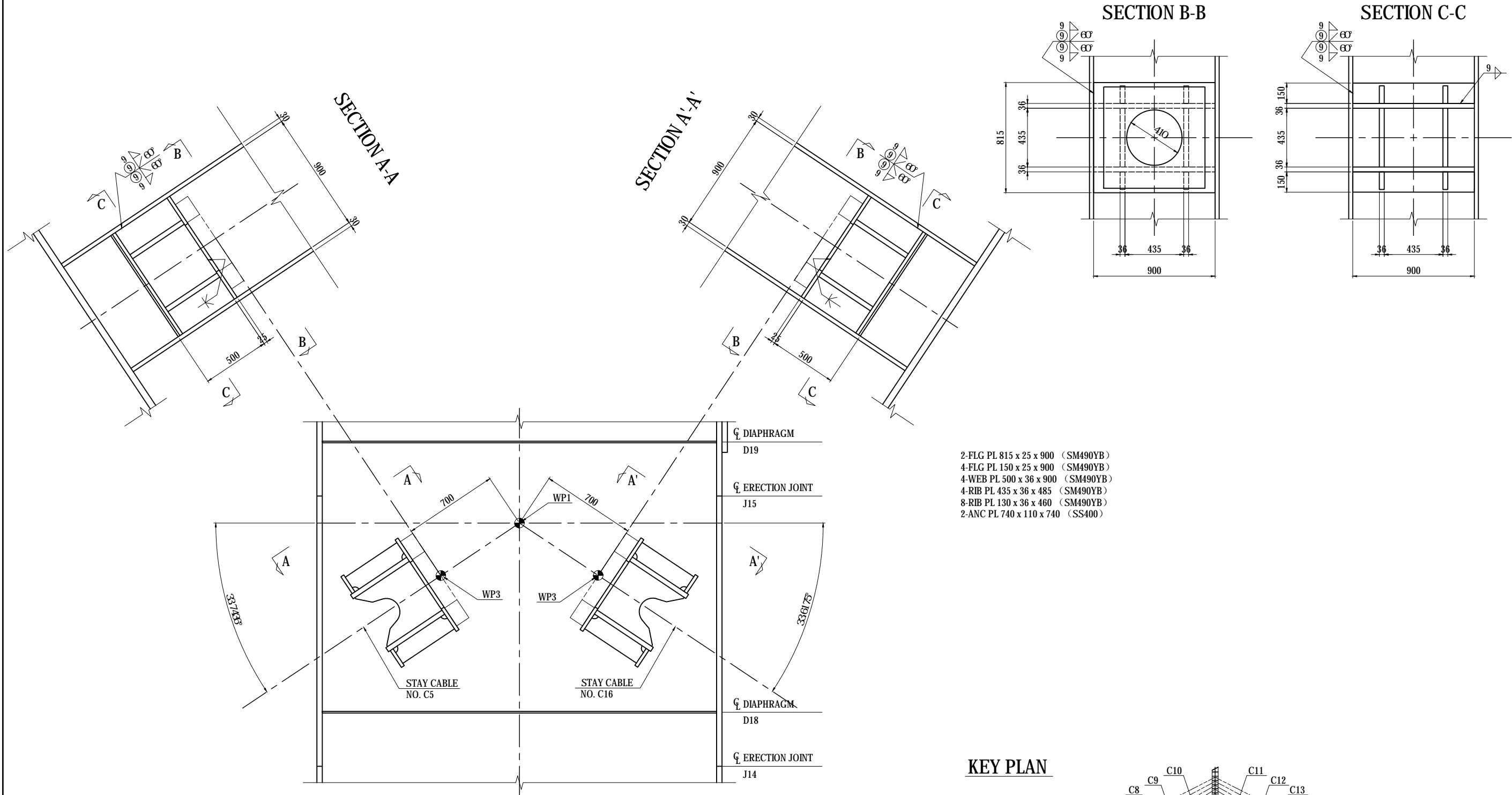
**KEY PLAN**



|  |   |  |   |   |                     |          |                          |       |                     |              |                            |          |                          |       |                     |              |                           |             |                          |       |                     |              |                            |         |                          |       |                     |              |  |   |
|--|---|--|---|---|---------------------|----------|--------------------------|-------|---------------------|--------------|----------------------------|----------|--------------------------|-------|---------------------|--------------|---------------------------|-------------|--------------------------|-------|---------------------|--------------|----------------------------|---------|--------------------------|-------|---------------------|--------------|--|---|
| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><small>NAME</small></td> <td style="width: 20%;">T.TOMODA</td> <td style="width: 20%;"><small>SIGNATURE</small></td> <td style="width: 20%;">友田 隆雄</td> <td style="width: 20%;"><small>DATE</small></td> <td>27. Nov.2017</td> </tr> <tr> <td><small>PREPARED BY</small></td> <td>T.TOMODA</td> <td><small>SIGNATURE</small></td> <td>友田 隆雄</td> <td><small>DATE</small></td> <td>27. Nov.2017</td> </tr> <tr> <td><small>CHECKED BY</small></td> <td>T. HAYAKAWA</td> <td><small>SIGNATURE</small></td> <td>平川 知平</td> <td><small>DATE</small></td> <td>28. Nov.2017</td> </tr> <tr> <td><small>APPROVED BY</small></td> <td>Y. SANO</td> <td><small>SIGNATURE</small></td> <td>佐野 隆一</td> <td><small>DATE</small></td> <td>29. Nov.2017</td> </tr> </table> | <small>NAME</small> | T.TOMODA | <small>SIGNATURE</small> | 友田 隆雄 | <small>DATE</small> | 27. Nov.2017 | <small>PREPARED BY</small> | T.TOMODA | <small>SIGNATURE</small> | 友田 隆雄 | <small>DATE</small> | 27. Nov.2017 | <small>CHECKED BY</small> | T. HAYAKAWA | <small>SIGNATURE</small> | 平川 知平 | <small>DATE</small> | 28. Nov.2017 | <small>APPROVED BY</small> | Y. SANO | <small>SIGNATURE</small> | 佐野 隆一 | <small>DATE</small> | 29. Nov.2017 | <small>DRAWING TITLE</small><br><b>MAIN TOWER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C5 &amp; C16 (1)</b> | <small>PACKAGE</small><br>1<br><small>DWG No.</small><br>P1-CS-1511 |
| <small>NAME</small>  | T.TOMODA  | <small>SIGNATURE</small>   | 友田 隆雄   | <small>DATE</small>   | 27. Nov.2017        |          |                          |       |                     |              |                            |          |                          |       |                     |              |                           |             |                          |       |                     |              |                            |         |                          |       |                     |              |  |   |
| <small>PREPARED BY</small>   | T.TOMODA  | <small>SIGNATURE</small>   | 友田 隆雄   | <small>DATE</small>   | 27. Nov.2017        |          |                          |       |                     |              |                            |          |                          |       |                     |              |                           |             |                          |       |                     |              |                            |         |                          |       |                     |              |  |   |
| <small>CHECKED BY</small>  | T. HAYAKAWA   | <small>SIGNATURE</small>   | 平川 知平   | <small>DATE</small>   | 28. Nov.2017        |          |                          |       |                     |              |                            |          |                          |       |                     |              |                           |             |                          |       |                     |              |                            |         |                          |       |                     |              |  |   |
| <small>APPROVED BY</small>   | Y. SANO   | <small>SIGNATURE</small>   | 佐野 隆一   | <small>DATE</small>   | 29. Nov.2017        |          |                          |       |                     |              |                            |          |                          |       |                     |              |                           |             |                          |       |                     |              |                            |         |                          |       |                     |              |  |   |

# MAIN TOWER ANCHORAGE OF STAY CABLES CABLE NO.C5 & C16 (2)

S=1:30



- 2-FLG PL 815 x 25 x 900 (SM490YB)
- 4-FLG PL 150 x 25 x 900 (SM490YB)
- 4-WEB PL 500 x 36 x 900 (SM490YB)
- 4-RIB PL 435 x 36 x 485 (SM490YB)
- 8-RIB PL 130 x 36 x 460 (SM490YB)
- 2-ANC PL 740 x 110 x 740 (SS400)

**NOTES:**

1 - THIS DWG WORKS WITH DWG NO. P1-CS-1511.

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br>MAIN TOWER ANCHORAGE OF STAY CABLES<br>CABLE NO.C5 & C16 (2) | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1512 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

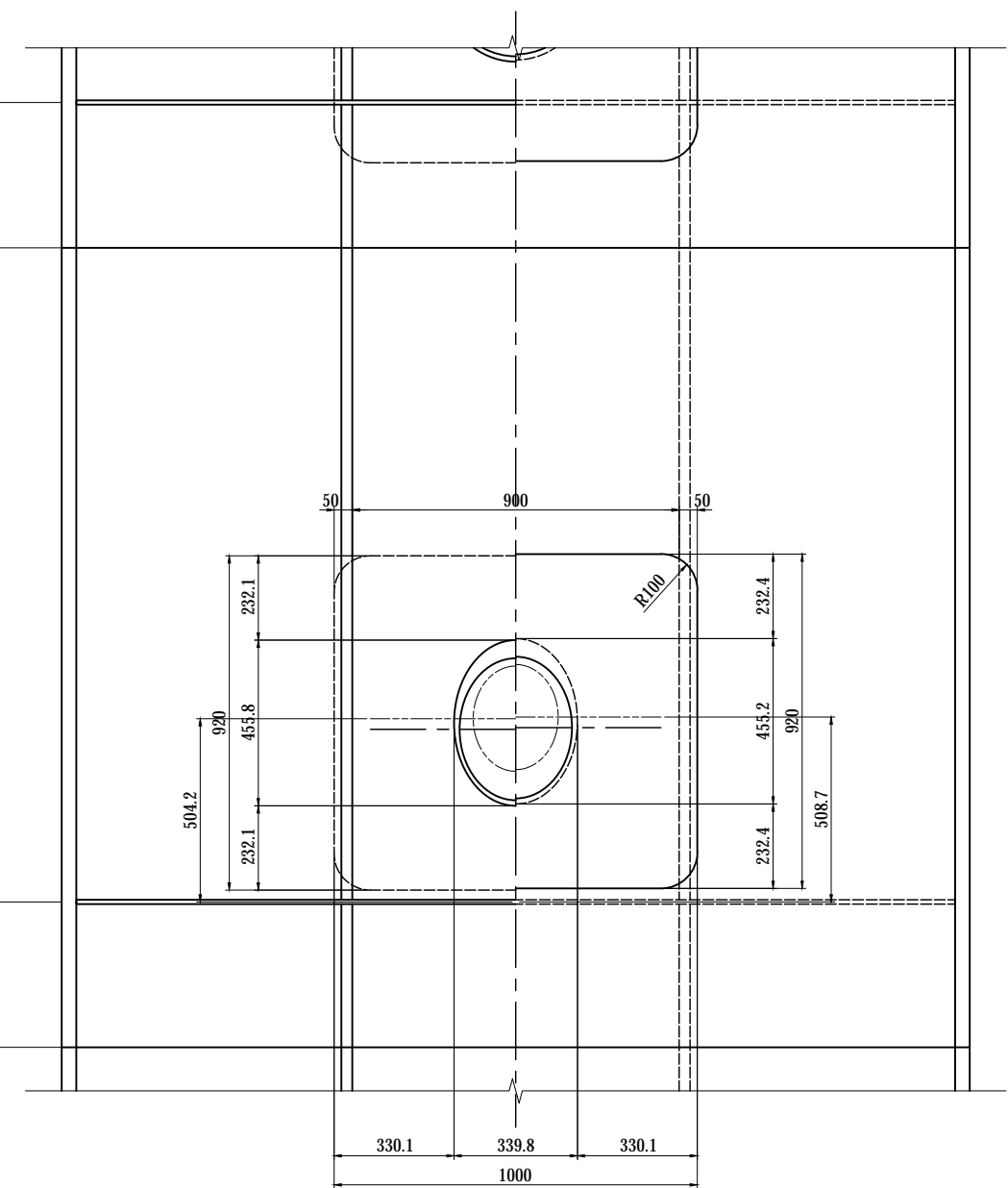
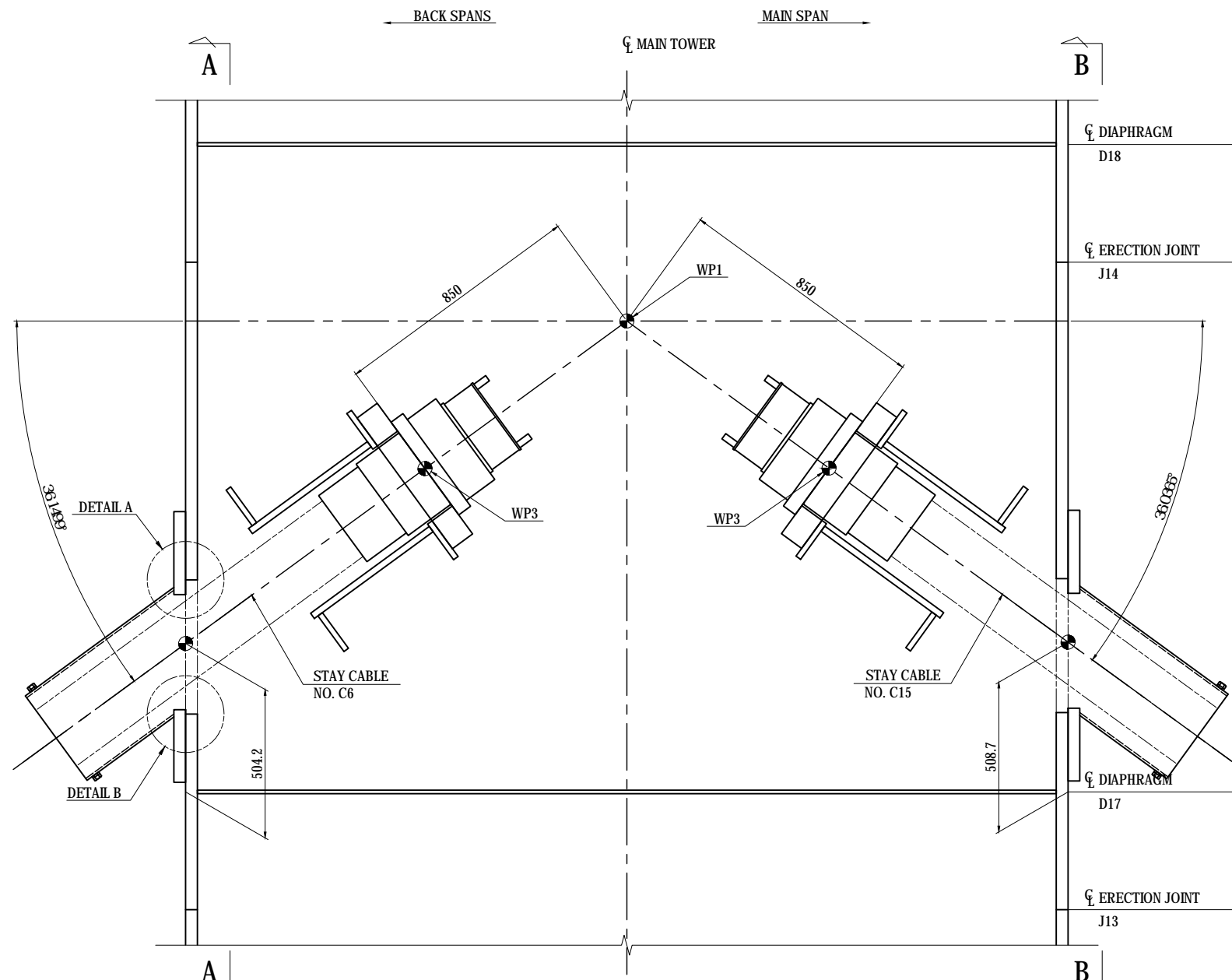
# MAIN TOWER ANCHORAGE OF STAY CABLES CABLE NO.C6 & C15 (1)

S=1:20

## SIDE ELEVATION

## HALF SECTION A-A

## HALF SECTION B-B

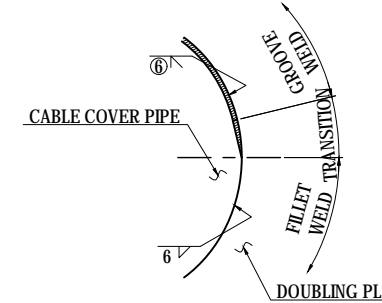
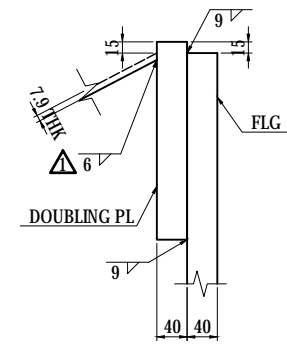
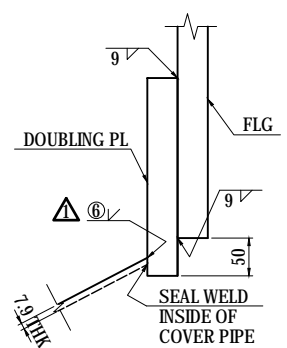


- 2-PL 920 x 40 x 1000 (SM490YB)
- 1-PIPE 355.6 x 7.9 x 625 (STK400)
- 1-PIPE 355.6 x 7.9 x 624 (STK400)

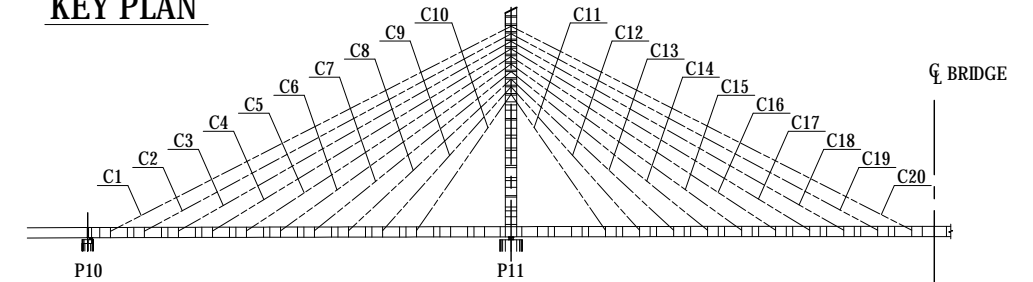
**DETAIL A** S=1:10

**DETAIL B** S=1:10

**TRANSITION DETAIL ①** S=1:10



## KEY PLAN

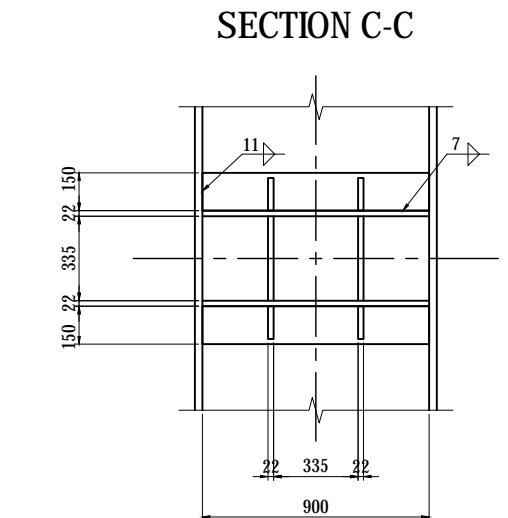
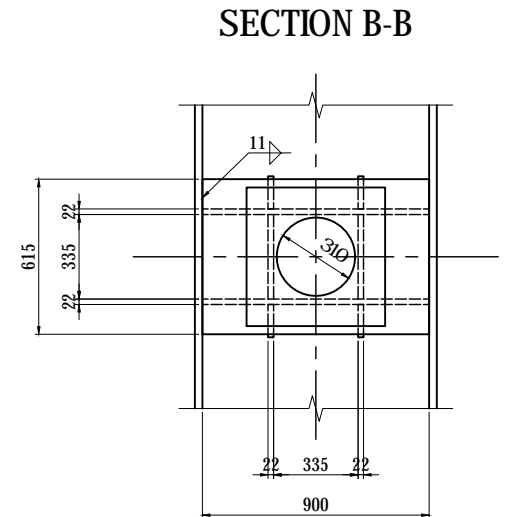
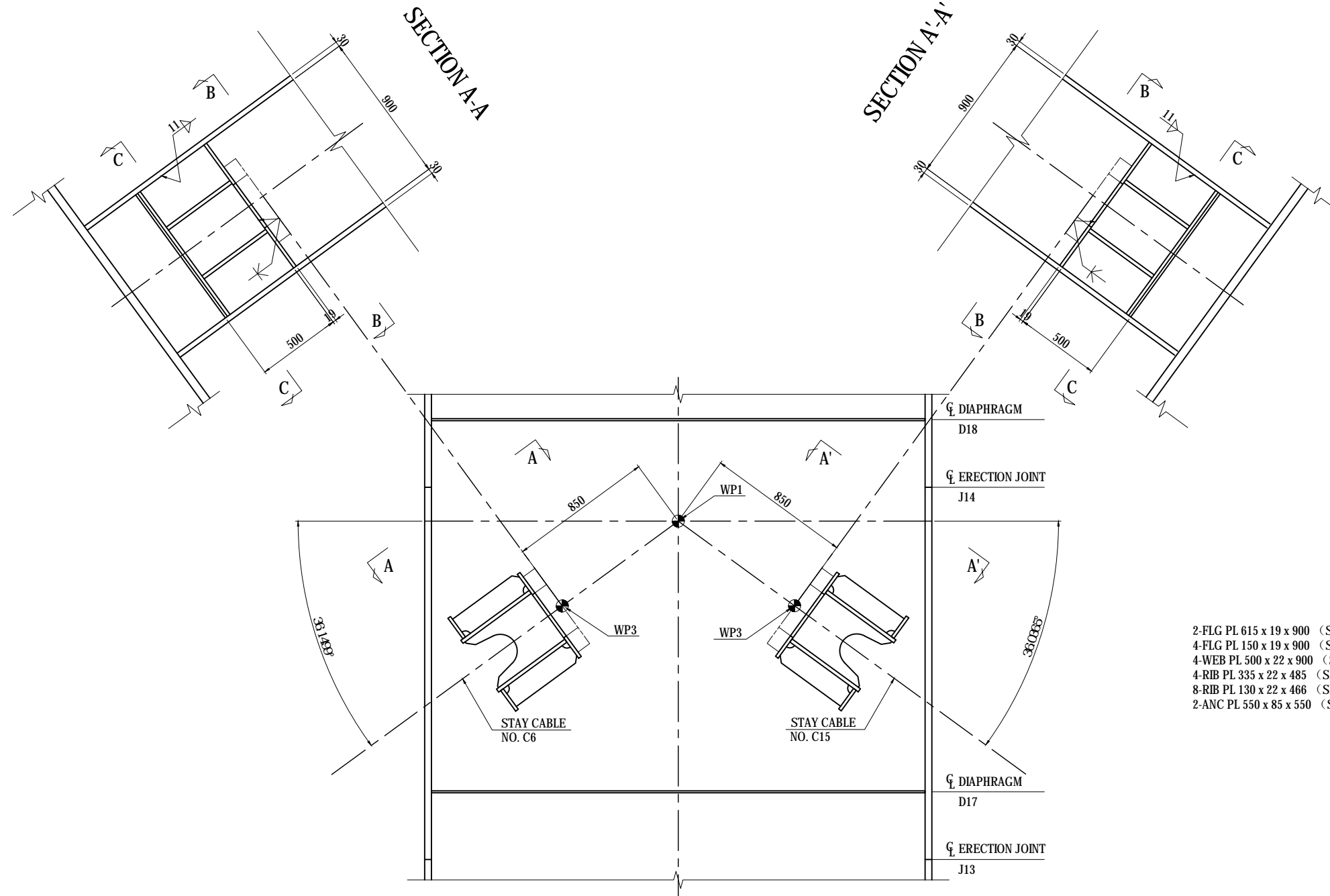


| <p>PROJECT NAME<br/>DETAILED DESIGN ON<br/>BAGO RIVER BRIDGE<br/>CONSTRUCTION PROJECT</p> | <p>FINANCED BY<br/> JAPAN INTERNATIONAL<br/>COOPERATION AGENCY</p> | <p>COUNTERPART<br/> REPUBLIC OF THE UNION OF MYANMAR<br/>MINISTRY OF CONSTRUCTION<br/>DEPARTMENT OF BRIDGE</p> | <p>JICA STUDY TEAM<br/> NIPPON KOEI CO., LTD.<br/> ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br/> METROPOLITAN EXPRESSWAY COMPANY LIMITED<br/> CHODAI CO., LTD.<br/> NIPPON ENGINEERING CONSULTANTS CO., LTD.</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | <p style="text-align: center;">DRAWING TITLE</p> <p style="text-align: center;"><b>MAIN TOWER ANCHORAGE OF STAY CABLES<br/>CABLE NO.C6 &amp; C15 (1)</b></p> | <p>PACKAGE</p> <p style="text-align: center;">1</p> <p>DWG No.</p> <p style="text-align: center;">P1-CS-1513</p> |
|---|--|--|---|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|--|--|
| NAME  | SIGNATURE  | DATE   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |  |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |  |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |  |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017   |   |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |  |

# MAIN TOWER ANCHORAGE OF STAY CABLES

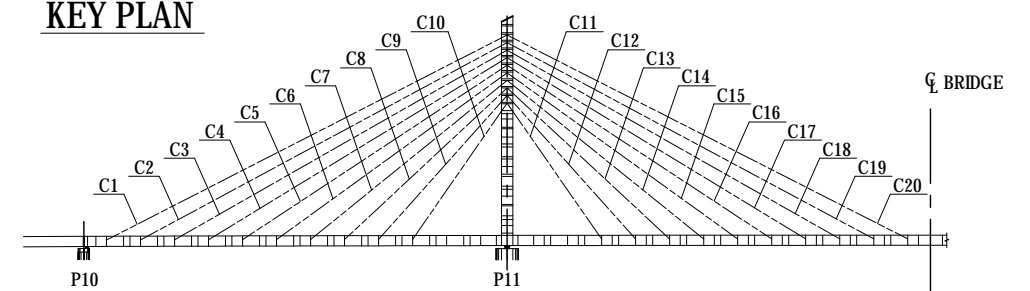
## CABLE NO.C6 & C15 (2)

S=1:30



- 2-FLG PL 615 x 19 x 900 (SM490YB)
- 4-FLG PL 150 x 19 x 900 (SM490YB)
- 4-WEB PL 500 x 22 x 900 (SM490YB)
- 4-RIB PL 335 x 22 x 485 (SM490YB)
- 8-RIB PL 130 x 22 x 466 (SM490YB)
- 2-ANC PL 550 x 85 x 550 (SS400)

### KEY PLAN



### NOTES:

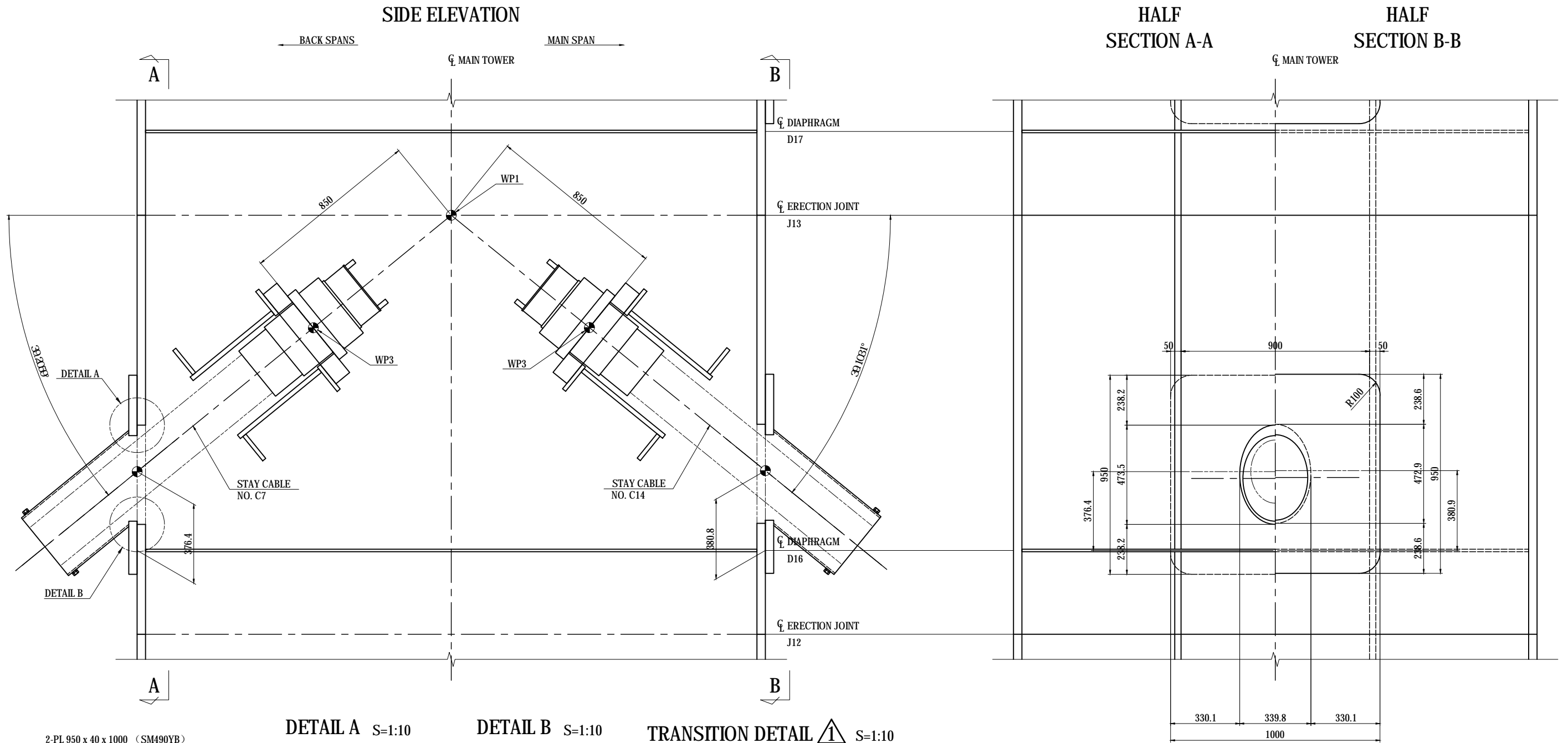
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1513.

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><b>MAIN TOWER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C6 &amp; C15 (2)</b> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1514 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

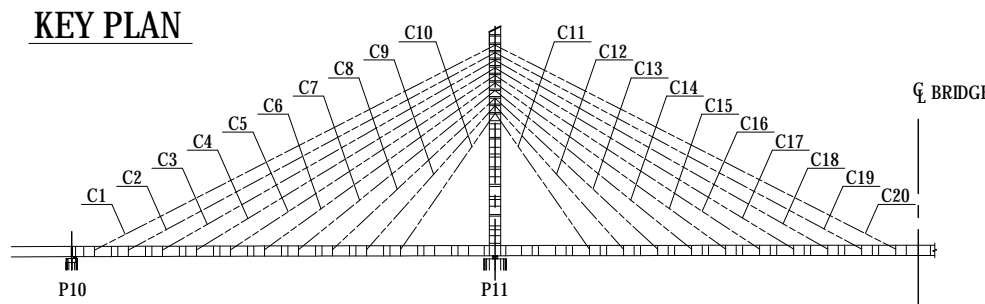
# MAIN TOWER ANCHORAGE OF STAY CABLES

## CABLE NO.C7 & C14 (1)

S=1:20



2-PL 950 x 40 x 1000 (SM490YB)  
 1-PIPE 355.6 x 7.9 x 661 (STK400)  
 1-PIPE 355.6 x 7.9 x 660 (STK400)



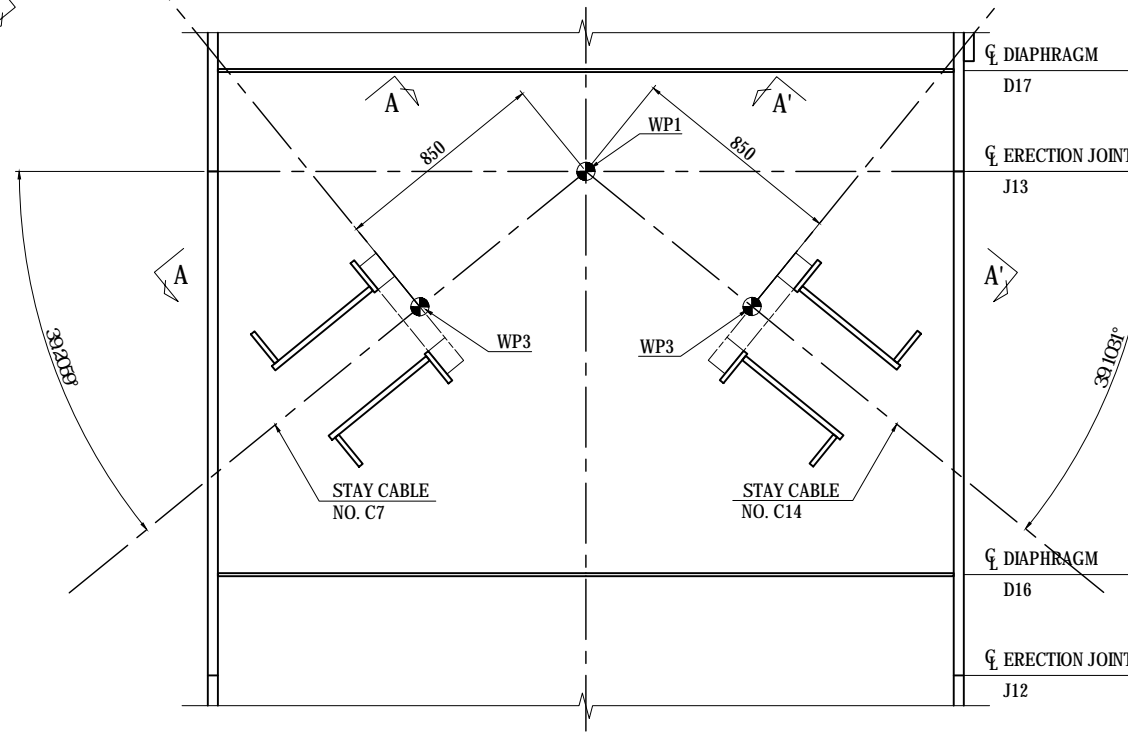
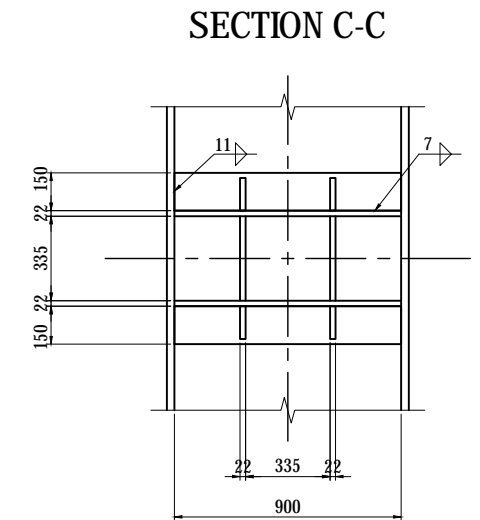
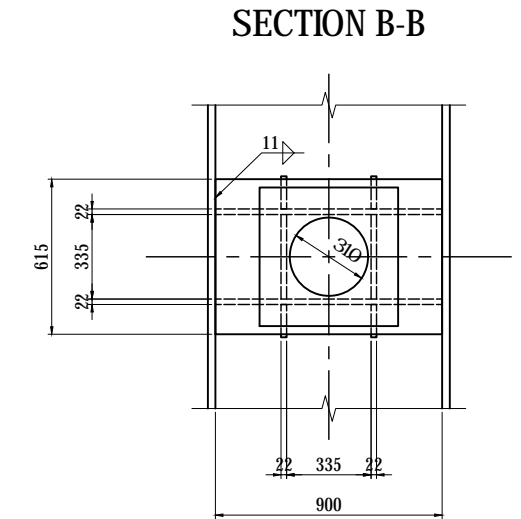
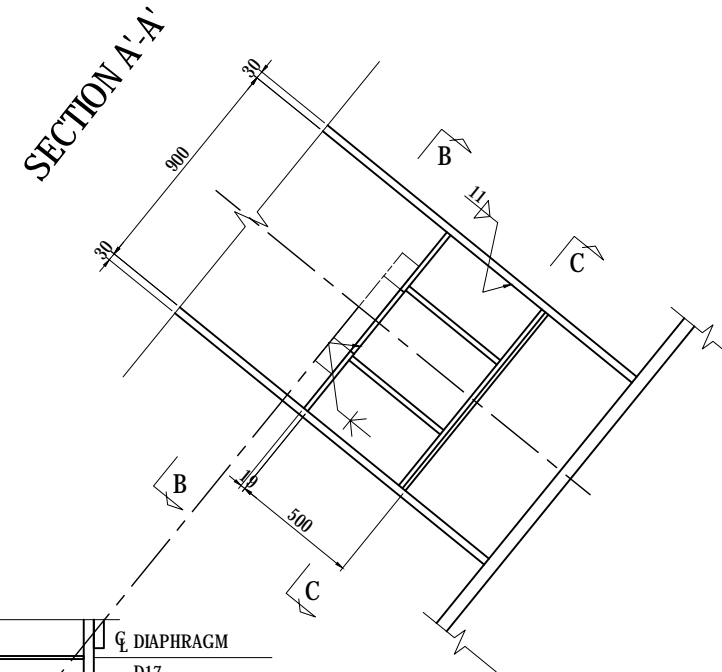
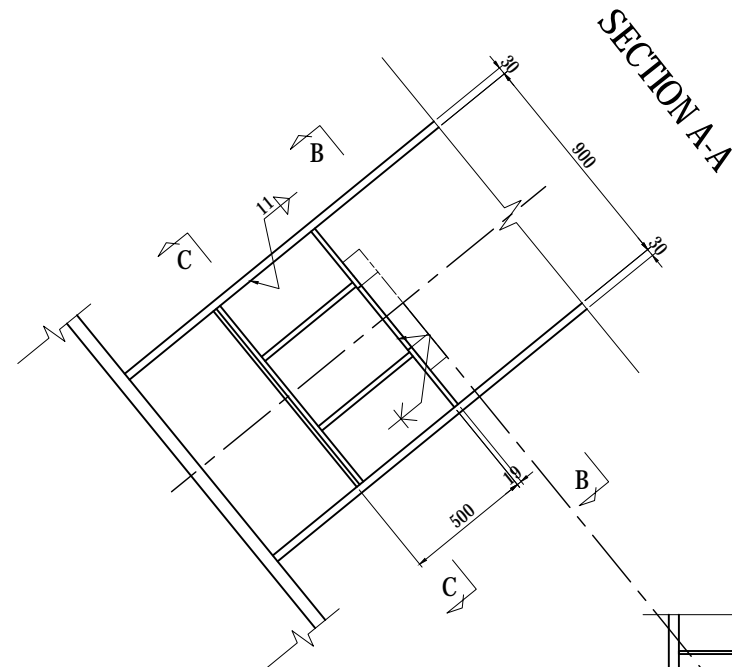
|   |  |   |  |  |                       |  |   |                                       |
|---|--|---|--|--|-----------------------|--|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>T.TOMODA<br>T. HAYAKAWA<br>Y. SANO | SIGNATURE<br><br><br> | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br>MAIN TOWER ANCHORAGE OF STAY CABLES<br>CABLE NO.C7 & C14 (1) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1515 |
|---|--|---|--|--|-----------------------|--|---|---------------------------------------|



# MAIN TOWER ANCHORAGE OF STAY CABLES

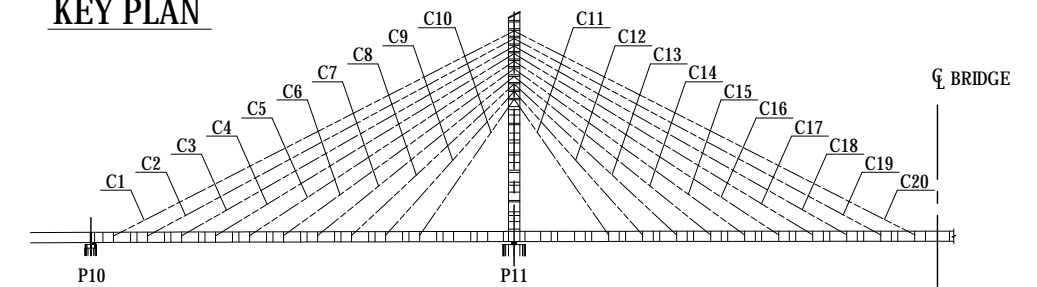
## CABLE NO.C7 & C14 (2)

S=1:30



- 2-FLG PL 615 x 19 x 900 (SM490YB)
- 4-FLG PL 150 x 19 x 900 (SM490YB)
- 4-WEB PL 500 x 22 x 900 (SM490YB)
- 4-RIB PL 335 x 22 x 485 (SM490YB)
- 8-RIB PL 130 x 22 x 466 (SM490YB)
- 2-ANC PL 550 x 85 x 550 (SS400)

### KEY PLAN



### NOTES:

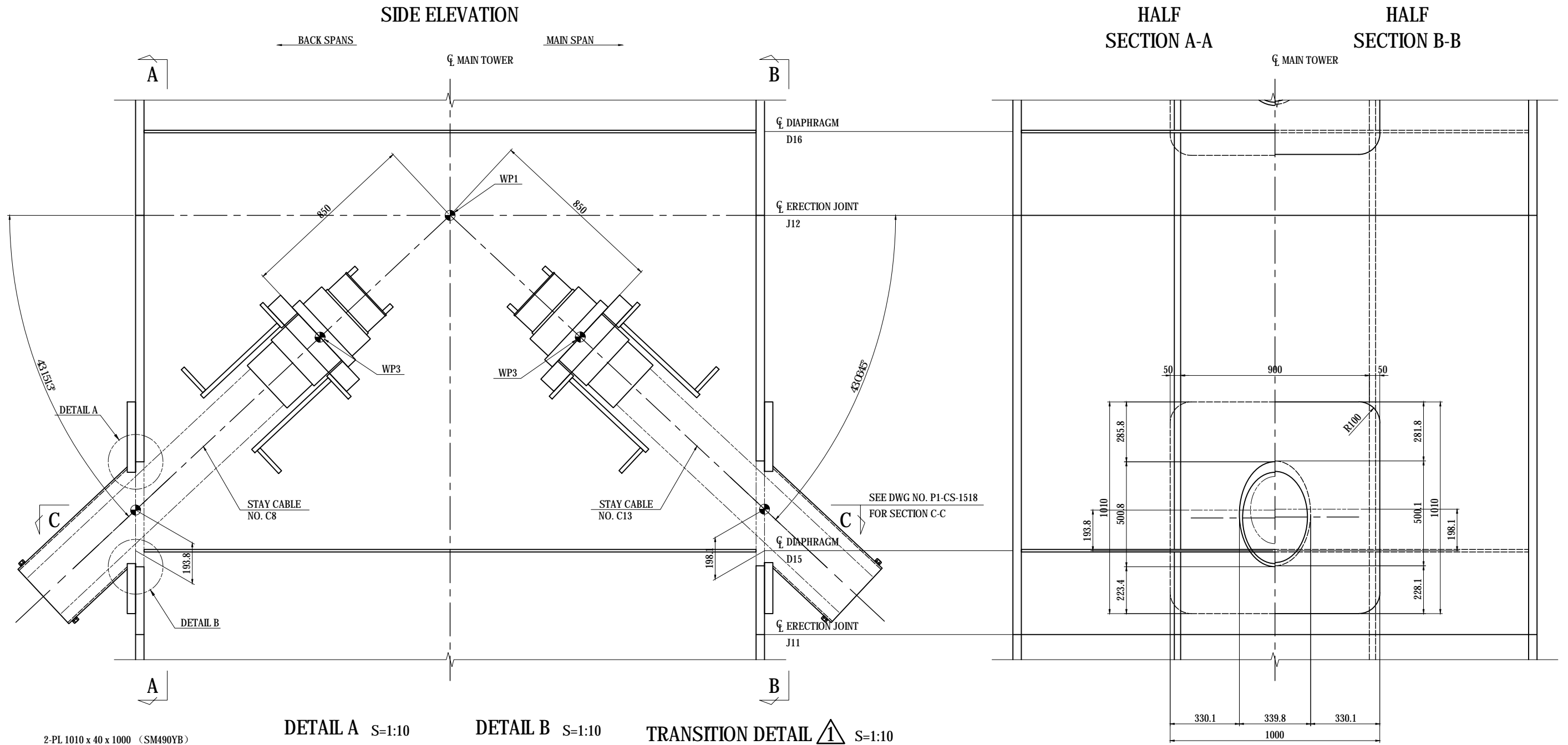
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1515.

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br><b>MAIN TOWER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C7 &amp; C14 (2)</b> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1516 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

# MAIN TOWER ANCHORAGE OF STAY CABLES

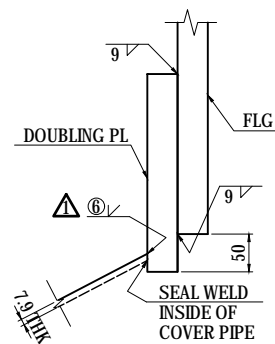
## CABLE NO.C8 & C13 (1)

S=1:20

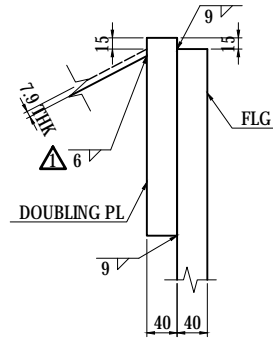


- 2-PL 1010 x 40 x 1000 (SM490YB)
- 1-PIPE 355.6 x 7.9 x 715 (STK400)
- 1-PIPE 355.6 x 7.9 x 714 (STK400)

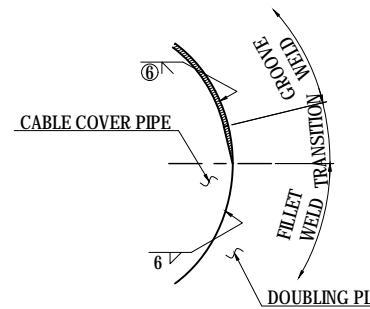
**DETAIL A** S=1:10



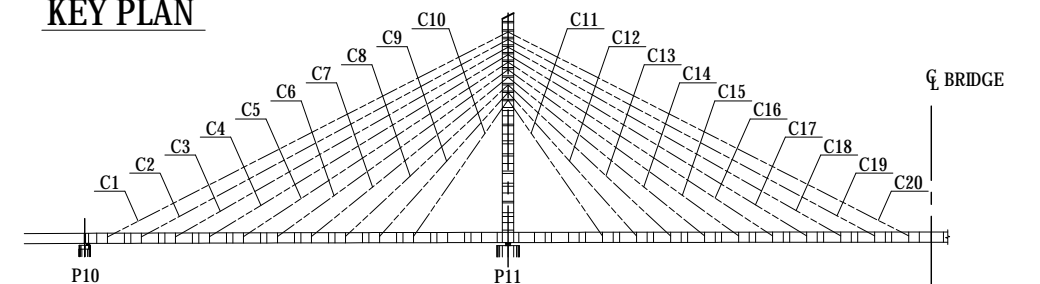
**DETAIL B** S=1:10



**TRANSITION DETAIL 1** S=1:10



**KEY PLAN**

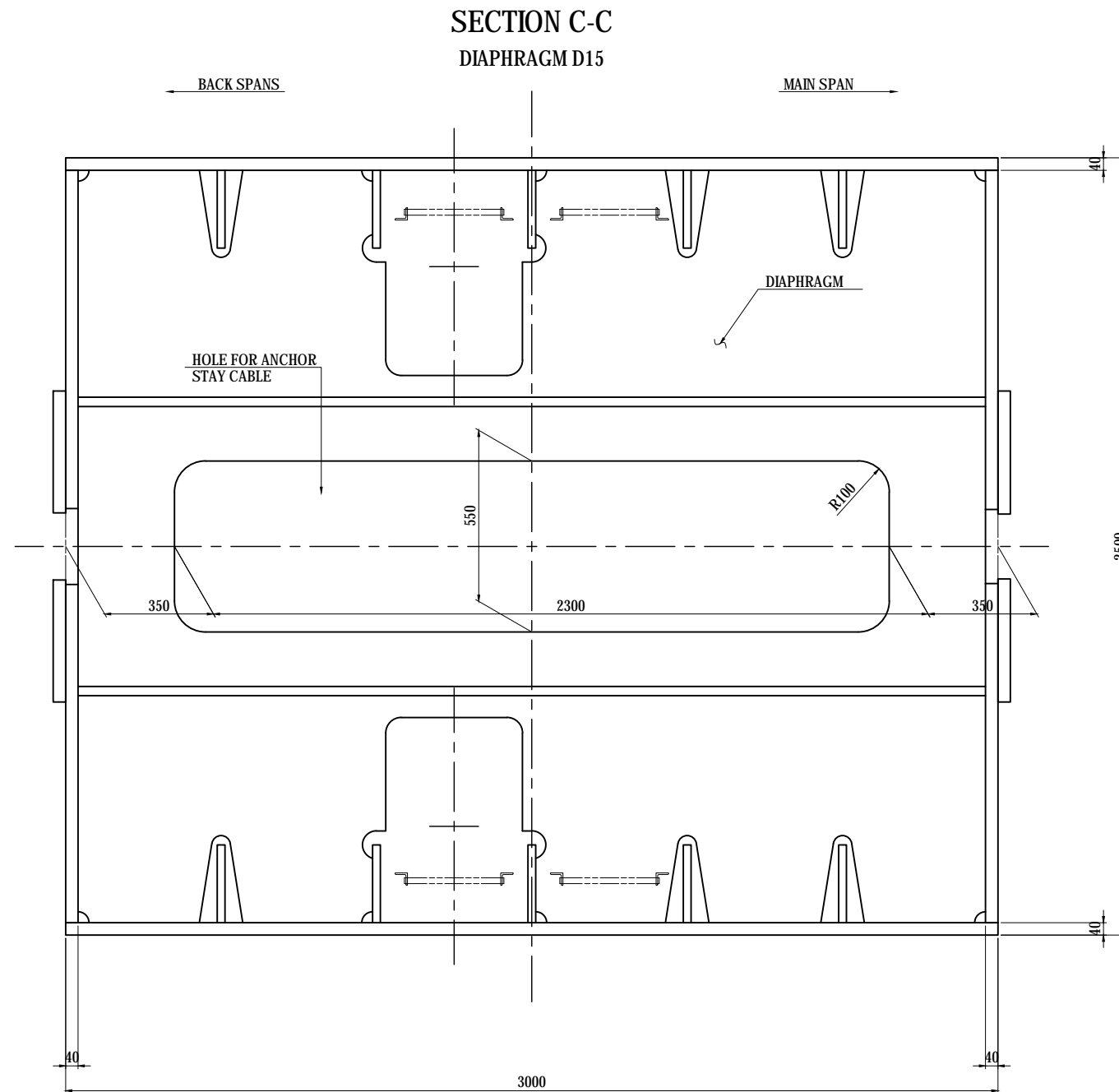


|  |   |  |   |   |                                      |   |  |  |
|--|---|--|---|---|--------------------------------------|---|--|--|
| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <small>NAME</small><br>T.TOMODA<br>T. HAYAKAWA<br>Y. SANO | <small>SIGNATURE</small><br><br><br> | <small>DATE</small><br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | <small>DRAWING TITLE</small><br><b>MAIN TOWER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C8 &amp; C13 (1)</b> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1517 |
|--|---|--|---|---|--------------------------------------|---|--|--|

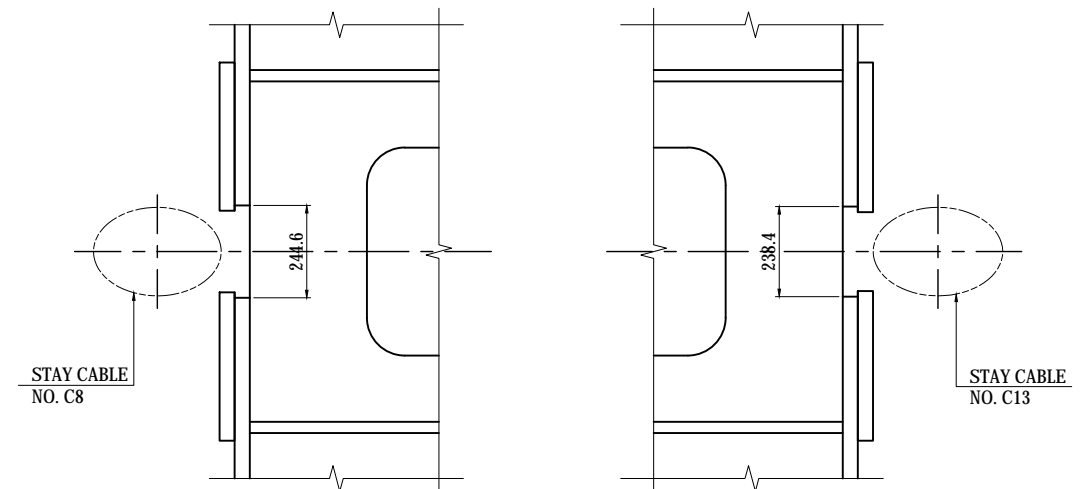
# MAIN TOWER ANCHORAGE OF STAY CABLES

CABLE NO.C8 & C13 (2)

S=1:20



## HOLE FOR STAY CABLE DETAIL



### NOTES:

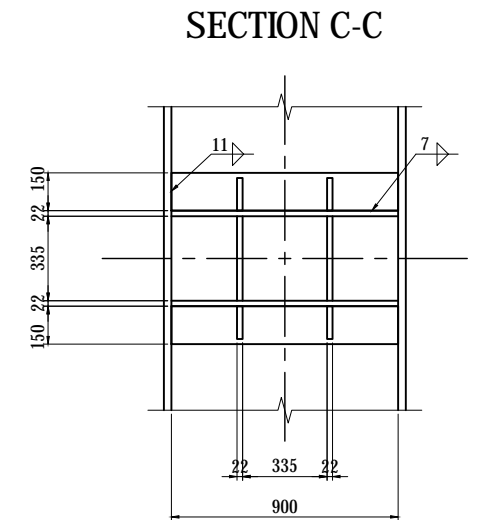
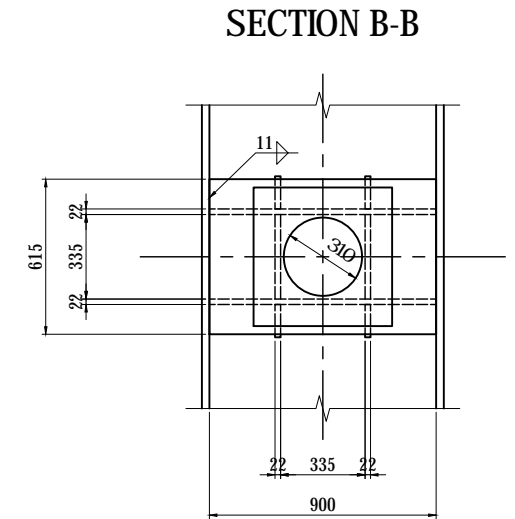
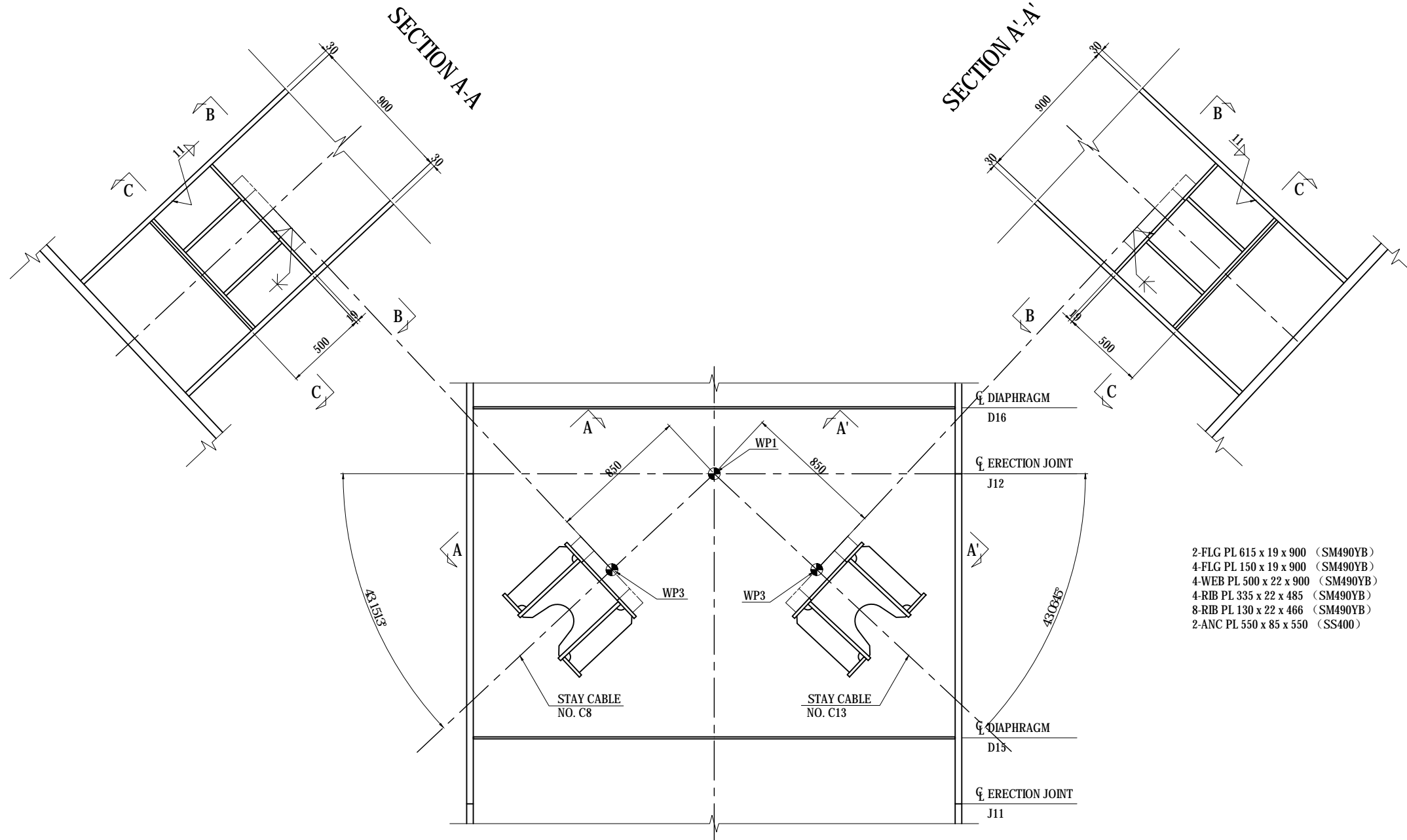
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1517.

| PROJECT NAME  | FINANCED BY                               | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE | DATE         | DRAWING TITLE | PACKAGE  |   |
|---|---|--|---|-------------|-----------|--------------|---------------|--|---|
| DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | JAPAN INTERNATIONAL<br>COOPERATION AGENCY | REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | PREPARED BY | T.TOMODA  |              | 27. Nov.2017  | MAIN TOWER ANCHORAGE OF STAY CABLES<br>CABLE NO.C8 & C13 (2) | 1 |
|   |   |  | CHECKED BY  | T. HAYAKAWA |           | 28. Nov.2017 | DWG No.       |  |   |
|   |   |  | APPROVED BY   | Y. SANO     |           | 29. Nov.2017 | P1-CS-1518    |  |   |

# MAIN TOWER ANCHORAGE OF STAY CABLES

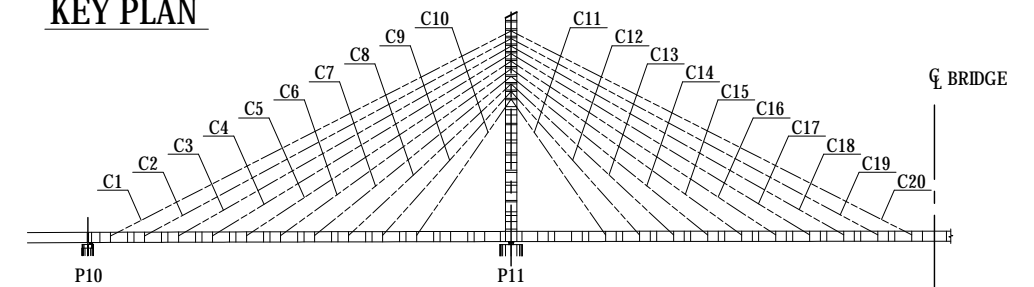
## CABLE NO.C8 & C13 (3)

S=1:30



- 2-FLG PL 615 x 19 x 900 (SM490YB)
- 4-FLG PL 150 x 19 x 900 (SM490YB)
- 4-WEB PL 500 x 22 x 900 (SM490YB)
- 4-RIB PL 335 x 22 x 485 (SM490YB)
- 8-RIB PL 130 x 22 x 466 (SM490YB)
- 2-ANC PL 550 x 85 x 550 (SS400)

### KEY PLAN



### NOTES:

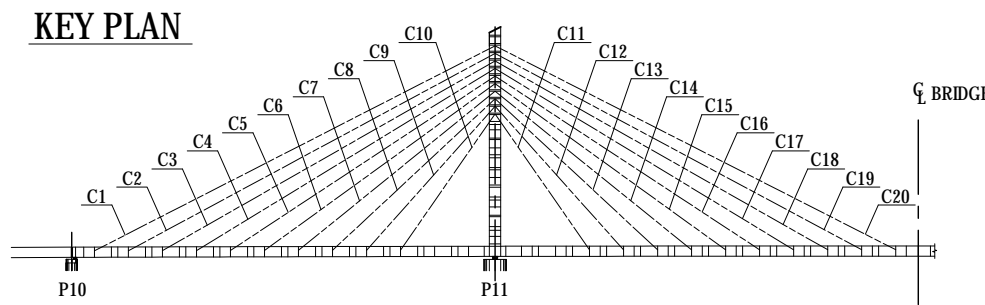
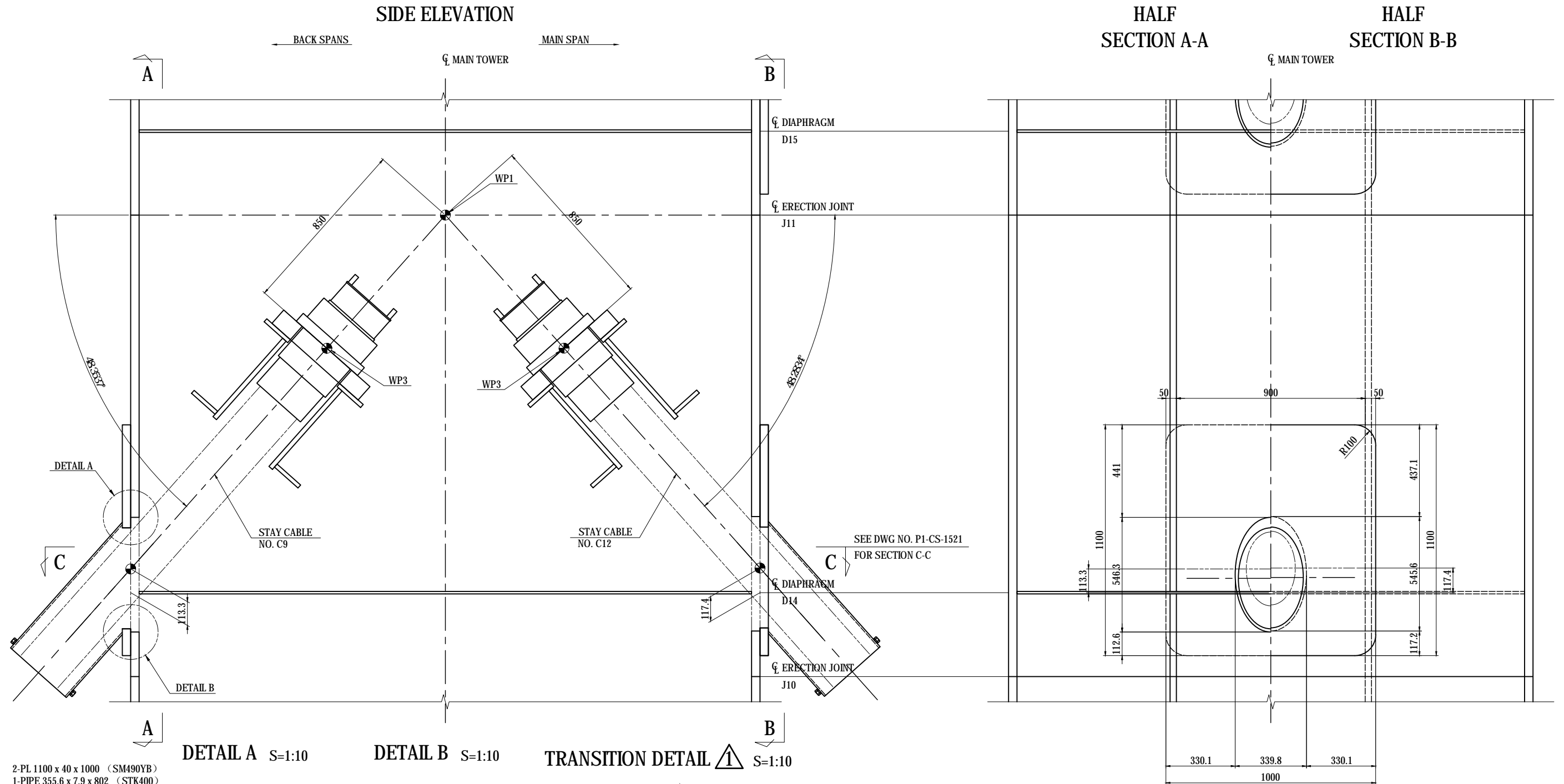
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1517.

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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 | <small>DRAWING TITLE</small><br>MAIN TOWER ANCHORAGE OF STAY CABLES<br>CABLE NO.C8 & C13 (3) | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1519 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

# MAIN TOWER ANCHORAGE OF STAY CABLES

## CABLE NO.C9 & C12 (1)

S=1:20

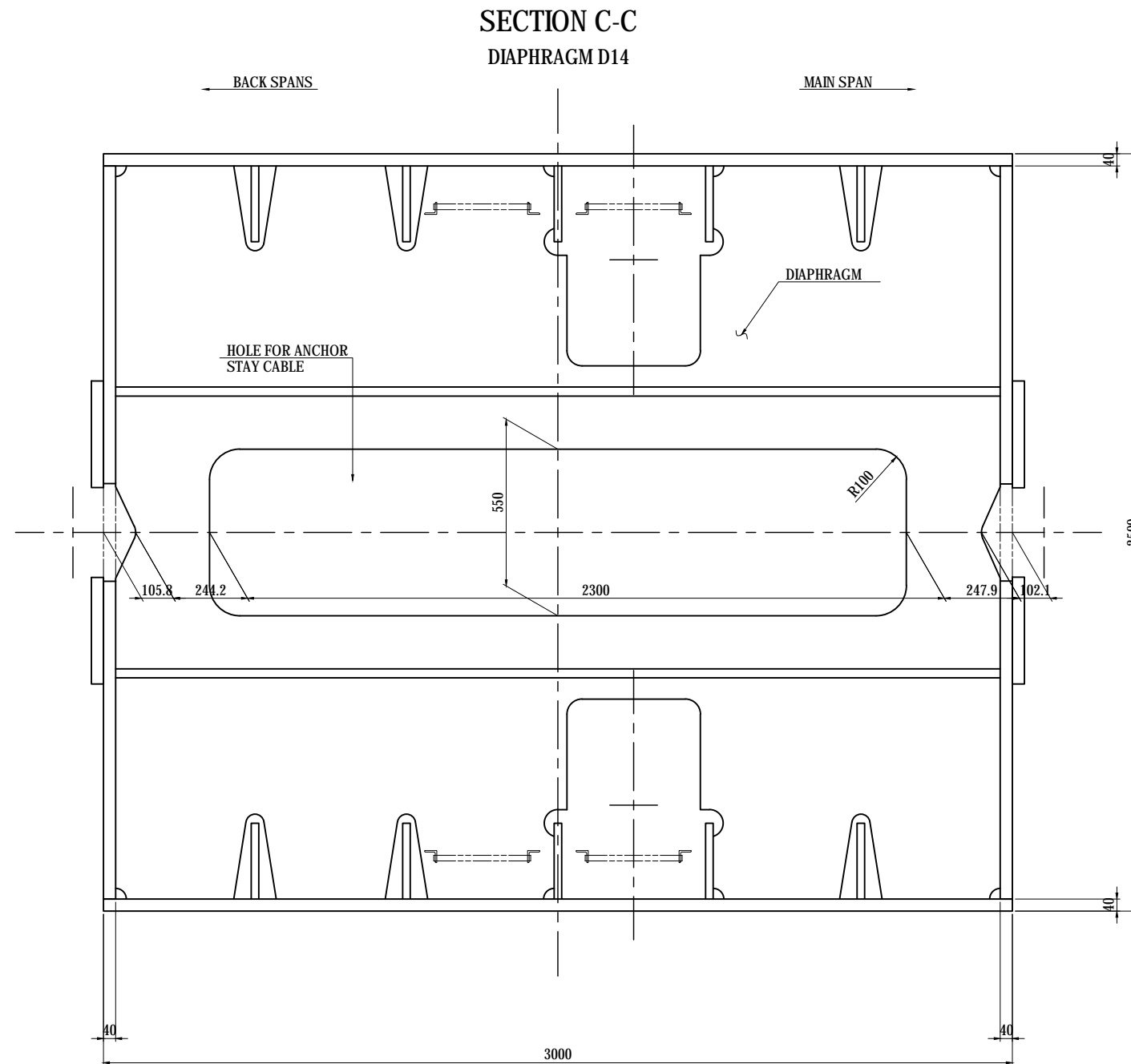


|  |   |  |   |   |                     |          |                          |  |                     |              |                           |             |                          |  |                     |              |                            |         |                          |  |                     |              |  |  |                        |   |                        |            |
|--|---|--|---|---|---------------------|----------|--------------------------|--|---------------------|--------------|---------------------------|-------------|--------------------------|--|---------------------|--------------|----------------------------|---------|--------------------------|--|---------------------|--------------|--|--|------------------------|---|------------------------|------------|
| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><small>NAME</small></td> <td>T.TOMODA</td> </tr> <tr> <td><small>SIGNATURE</small></td> <td></td> </tr> <tr> <td><small>DATE</small></td> <td>27. Nov.2017</td> </tr> <tr> <td><small>CHECKED BY</small></td> <td>T. HAYAKAWA</td> </tr> <tr> <td><small>SIGNATURE</small></td> <td></td> </tr> <tr> <td><small>DATE</small></td> <td>28. Nov.2017</td> </tr> <tr> <td><small>APPROVED BY</small></td> <td>Y. SANO</td> </tr> <tr> <td><small>SIGNATURE</small></td> <td></td> </tr> <tr> <td><small>DATE</small></td> <td>29. Nov.2017</td> </tr> </table> | <small>NAME</small> | T.TOMODA | <small>SIGNATURE</small> |  | <small>DATE</small> | 27. Nov.2017 | <small>CHECKED BY</small> | T. HAYAKAWA | <small>SIGNATURE</small> |  | <small>DATE</small> | 28. Nov.2017 | <small>APPROVED BY</small> | Y. SANO | <small>SIGNATURE</small> |  | <small>DATE</small> | 29. Nov.2017 | <small>DRAWING TITLE</small><br><b>MAIN TOWER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C9 &amp; C12 (1)</b> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><small>PACKAGE</small></td> <td>1</td> </tr> <tr> <td><small>DWG No.</small></td> <td>P1-CS-1520</td> </tr> </table> | <small>PACKAGE</small> | 1 | <small>DWG No.</small> | P1-CS-1520 |
| <small>NAME</small>  | T.TOMODA  |  |   |   |                     |          |                          |  |                     |              |                           |             |                          |  |                     |              |                            |         |                          |  |                     |              |  |  |                        |   |                        |            |
| <small>SIGNATURE</small>   |   |  |   |   |                     |          |                          |  |                     |              |                           |             |                          |  |                     |              |                            |         |                          |  |                     |              |  |  |                        |   |                        |            |
| <small>DATE</small>  | 27. Nov.2017  |  |   |   |                     |          |                          |  |                     |              |                           |             |                          |  |                     |              |                            |         |                          |  |                     |              |  |  |                        |   |                        |            |
| <small>CHECKED BY</small>  | T. HAYAKAWA   |  |   |   |                     |          |                          |  |                     |              |                           |             |                          |  |                     |              |                            |         |                          |  |                     |              |  |  |                        |   |                        |            |
| <small>SIGNATURE</small>   |   |  |   |   |                     |          |                          |  |                     |              |                           |             |                          |  |                     |              |                            |         |                          |  |                     |              |  |  |                        |   |                        |            |
| <small>DATE</small>  | 28. Nov.2017  |  |   |   |                     |          |                          |  |                     |              |                           |             |                          |  |                     |              |                            |         |                          |  |                     |              |  |  |                        |   |                        |            |
| <small>APPROVED BY</small>   | Y. SANO   |  |   |   |                     |          |                          |  |                     |              |                           |             |                          |  |                     |              |                            |         |                          |  |                     |              |  |  |                        |   |                        |            |
| <small>SIGNATURE</small>   |   |  |   |   |                     |          |                          |  |                     |              |                           |             |                          |  |                     |              |                            |         |                          |  |                     |              |  |  |                        |   |                        |            |
| <small>DATE</small>  | 29. Nov.2017  |  |   |   |                     |          |                          |  |                     |              |                           |             |                          |  |                     |              |                            |         |                          |  |                     |              |  |  |                        |   |                        |            |
| <small>PACKAGE</small>   | 1   |  |   |   |                     |          |                          |  |                     |              |                           |             |                          |  |                     |              |                            |         |                          |  |                     |              |  |  |                        |   |                        |            |
| <small>DWG No.</small>   | P1-CS-1520  |  |   |   |                     |          |                          |  |                     |              |                           |             |                          |  |                     |              |                            |         |                          |  |                     |              |  |  |                        |   |                        |            |

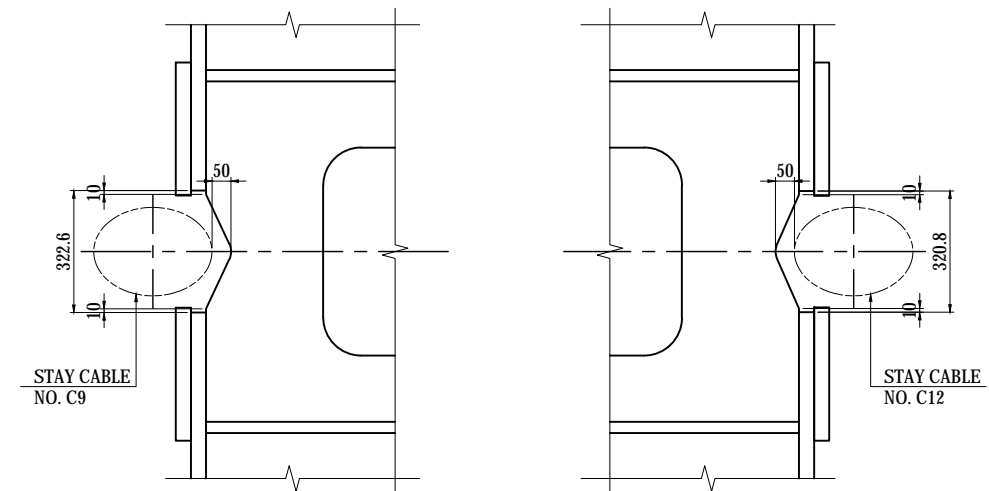
# MAIN TOWER ANCHORAGE OF STAY CABLES

CABLE NO.C9 & C12 (2)

S=1:20



## HOLE FOR STAY CABLE DETAIL



**NOTES:**

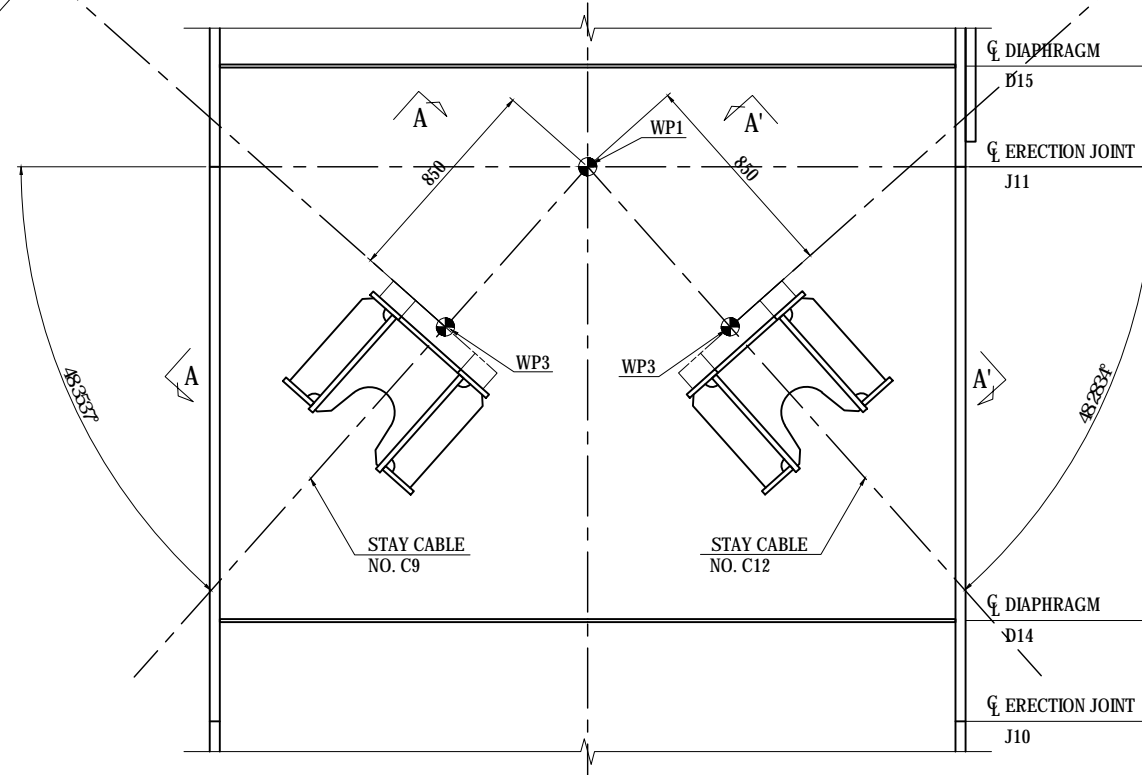
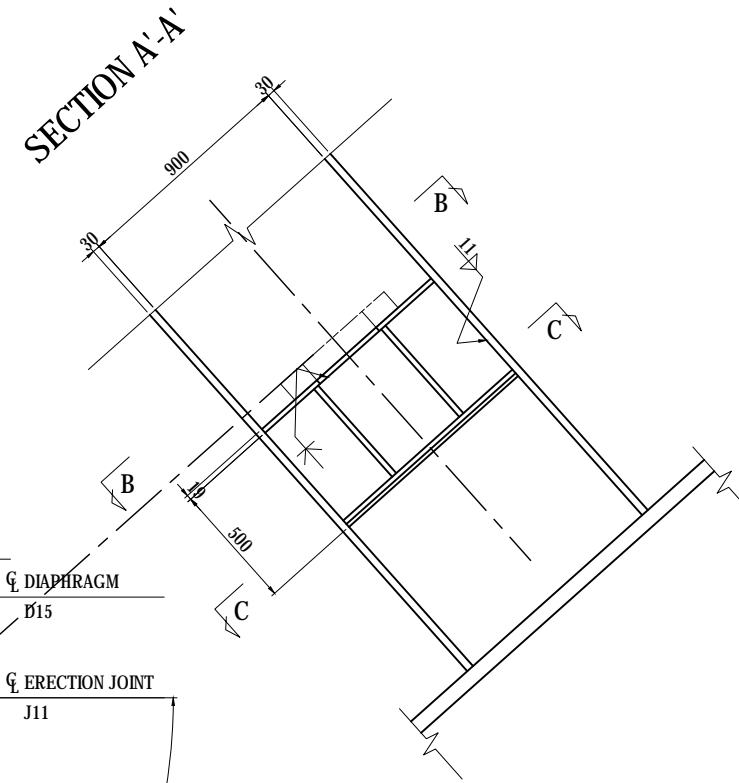
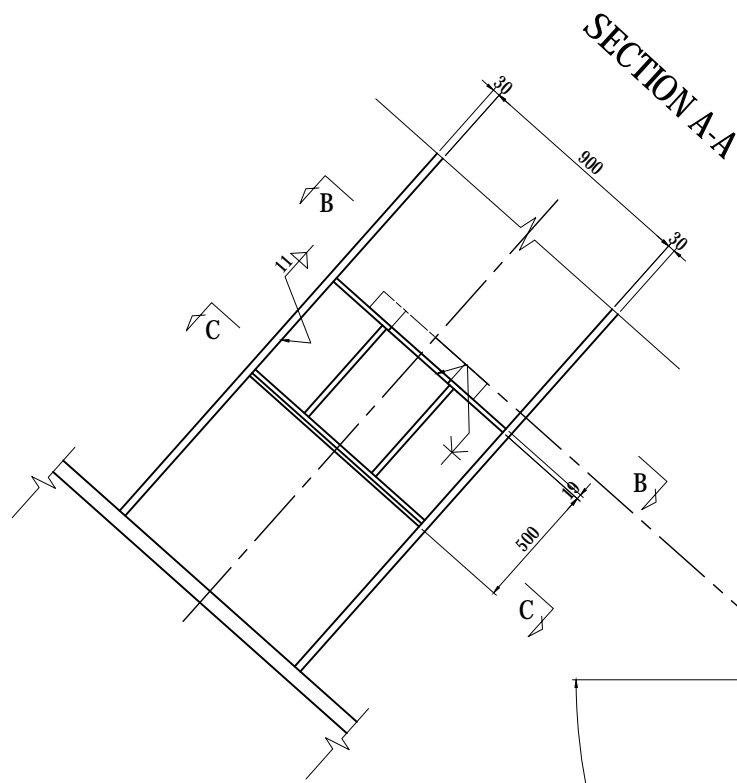
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1520.

| PROJECT NAME  | FINANCED BY                               | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE             | DATE                  | DRAWING TITLE  | PACKAGE |
|---|---|--|---|-------------|-----------------------|-----------------------|--|---------|
| DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | JAPAN INTERNATIONAL<br>COOPERATION AGENCY | REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | PREPARED BY | T.TOMODA              | 友田 智雄<br>27. Nov.2017 | MAIN TOWER ANCHORAGE OF STAY CABLES<br>CABLE NO.C9 & C12 (2) | 1       |
|   |   |  | CHECKED BY  | T. HAYAKAWA | 平川 知平<br>28. Nov.2017 | DWG No.               |  |         |
|   |   |  | APPROVED BY   | Y. SANO     | 佐野 祐一<br>29. Nov.2017 | P1-CS-1521            |  |         |

# MAIN TOWER ANCHORAGE OF STAY CABLES

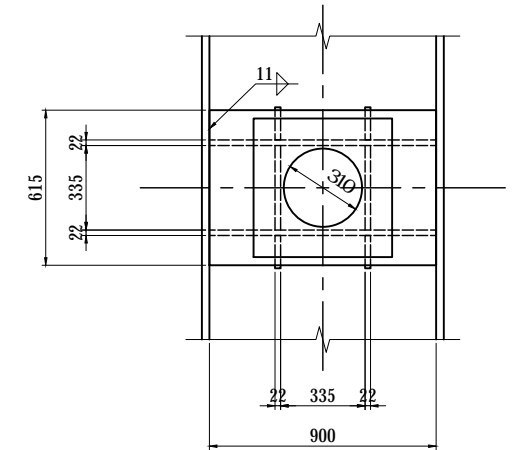
## CABLE NO.C9 & C12 (3)

S=1:30

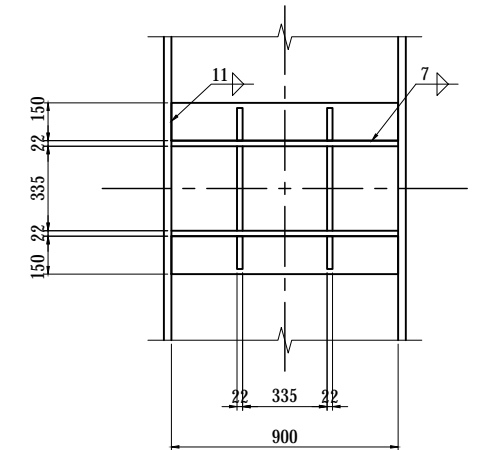


- 2-FLG PL 615 x 19 x 900 (SM490YB)
- 4-FLG PL 150 x 19 x 900 (SM490YB)
- 4-WEB PL 500 x 22 x 900 (SM490YB)
- 4-RIB PL 335 x 22 x 485 (SM490YB)
- 8-RIB PL 130 x 22 x 466 (SM490YB)
- 2-ANC PL 550 x 85 x 550 (SS400)

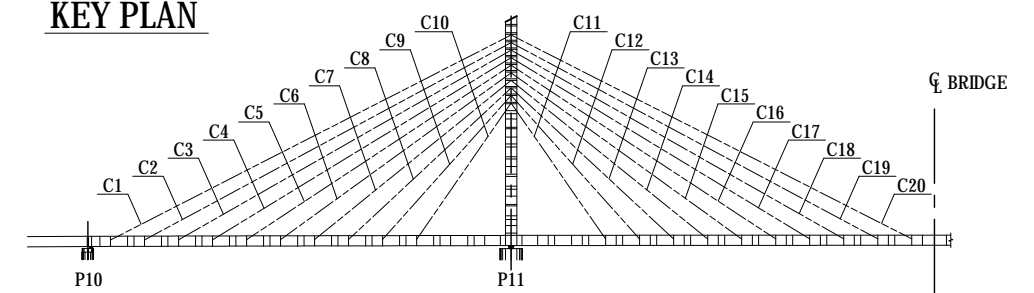
SECTION B-B



SECTION C-C



KEY PLAN



**NOTES:**

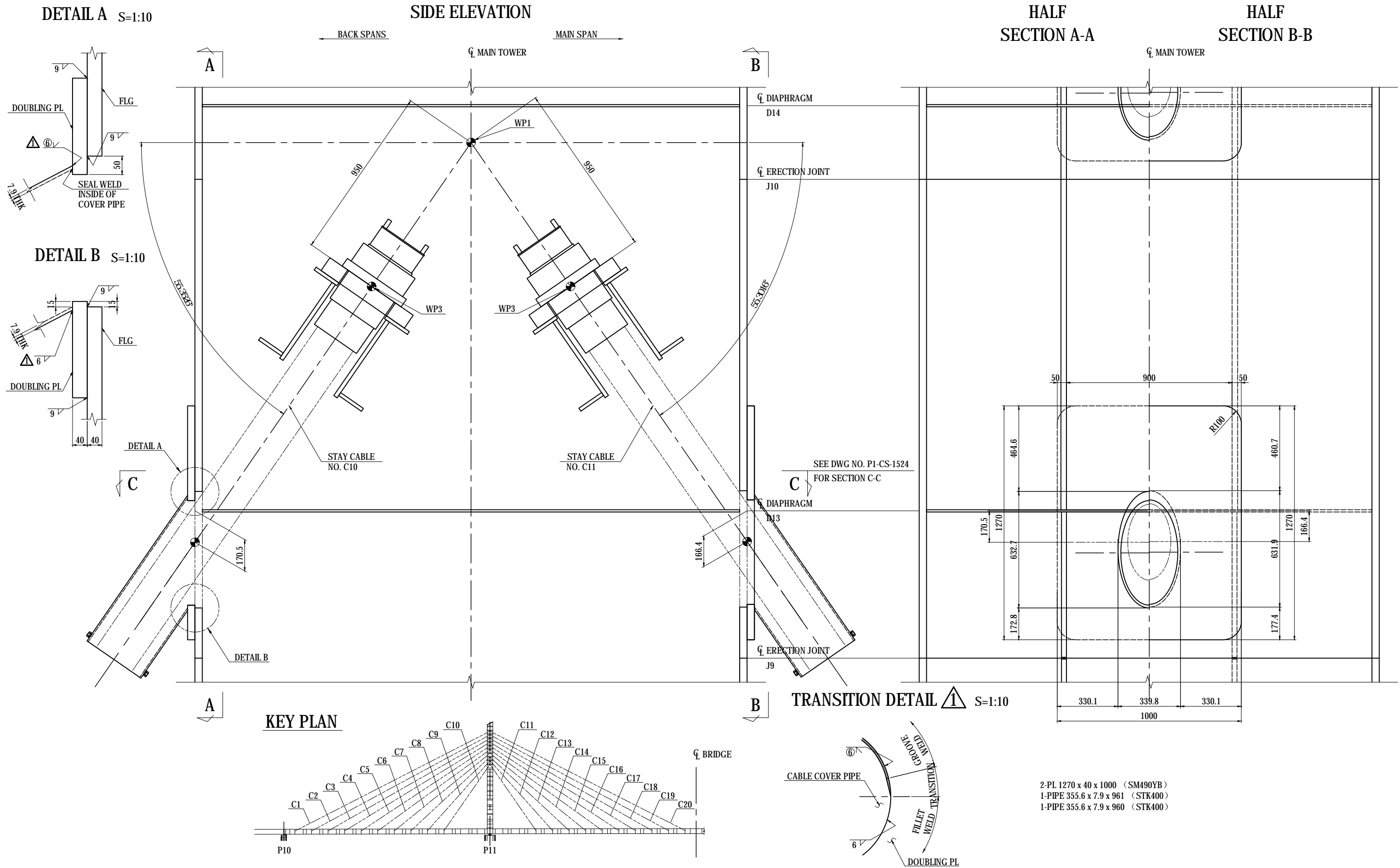
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1520.

| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 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 | <small>DRAWING TITLE</small><br>MAIN TOWER ANCHORAGE OF STAY CABLES<br>CABLE NO.C9 & C12 (3) | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1522 |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|--|--|
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |  |  |

# MAIN TOWER ANCHORAGE OF STAY CABLES

## CABLE NO.C10 & C11 (1)

S=1:20



2-PL 1270 x 40 x 1000 (SM490YB)  
 1-PIPE 355.6 x 7.9 x 961 (STK400)  
 1-PIPE 355.6 x 7.9 x 960 (STK400)

| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>PREPARED BY<br/>T.TOMODA</td> <td></td> <td>27. Nov.2017</td> </tr> <tr> <td>CHECKED BY<br/>T. HAYAKAWA</td> <td></td> <td>28. Nov.2017</td> </tr> <tr> <td>APPROVED BY<br/>Y. SANO</td> <td></td> <td>29. Nov.2017</td> </tr> </tbody> </table> | NAME | SIGNATURE | DATE | PREPARED BY<br>T.TOMODA |  | 27. Nov.2017 | CHECKED BY<br>T. HAYAKAWA |  | 28. Nov.2017 | APPROVED BY<br>Y. SANO |  | 29. Nov.2017 | DRAWING TITLE<br><b>MAIN TOWER ANCHORAGE OF STAY CABLES</b><br><b>CABLE NO.C10 &amp; C11 (1)</b> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1523 |
|---|--|---|--|---|------|-----------|------|-------------------------|--|--------------|---------------------------|--|--------------|------------------------|--|--------------|--|---------------------------------------|
| NAME  | SIGNATURE  | DATE  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| PREPARED BY<br>T.TOMODA   |  | 27. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| CHECKED BY<br>T. HAYAKAWA   |  | 28. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |
| APPROVED BY<br>Y. SANO  |  | 29. Nov.2017  |  |   |      |           |      |                         |  |              |                           |  |              |                        |  |              |  |                                       |

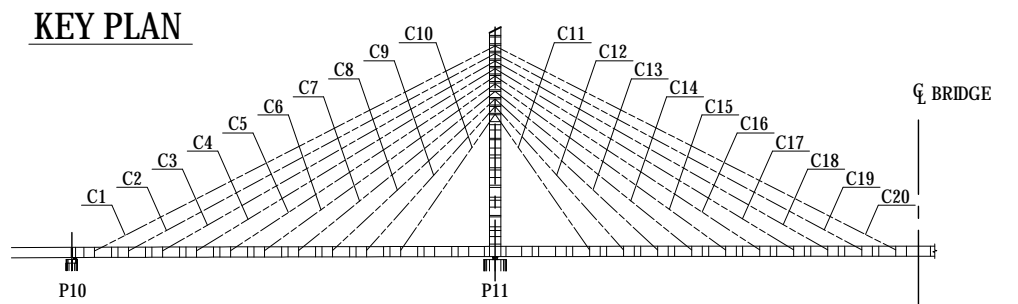
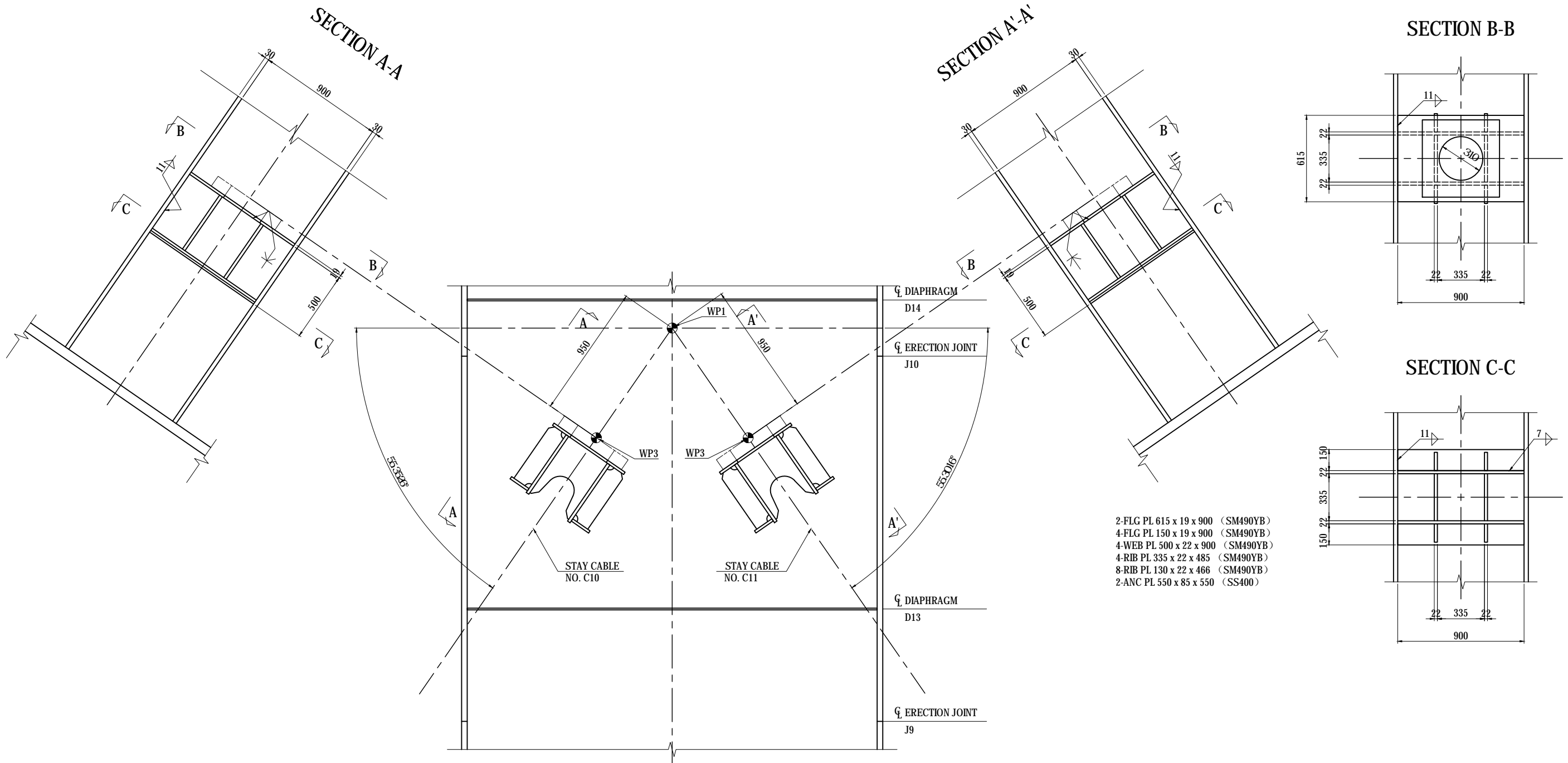




# MAIN TOWER ANCHORAGE OF STAY CABLES

## CABLE NO.C10 & C11 (3)

S=1:30

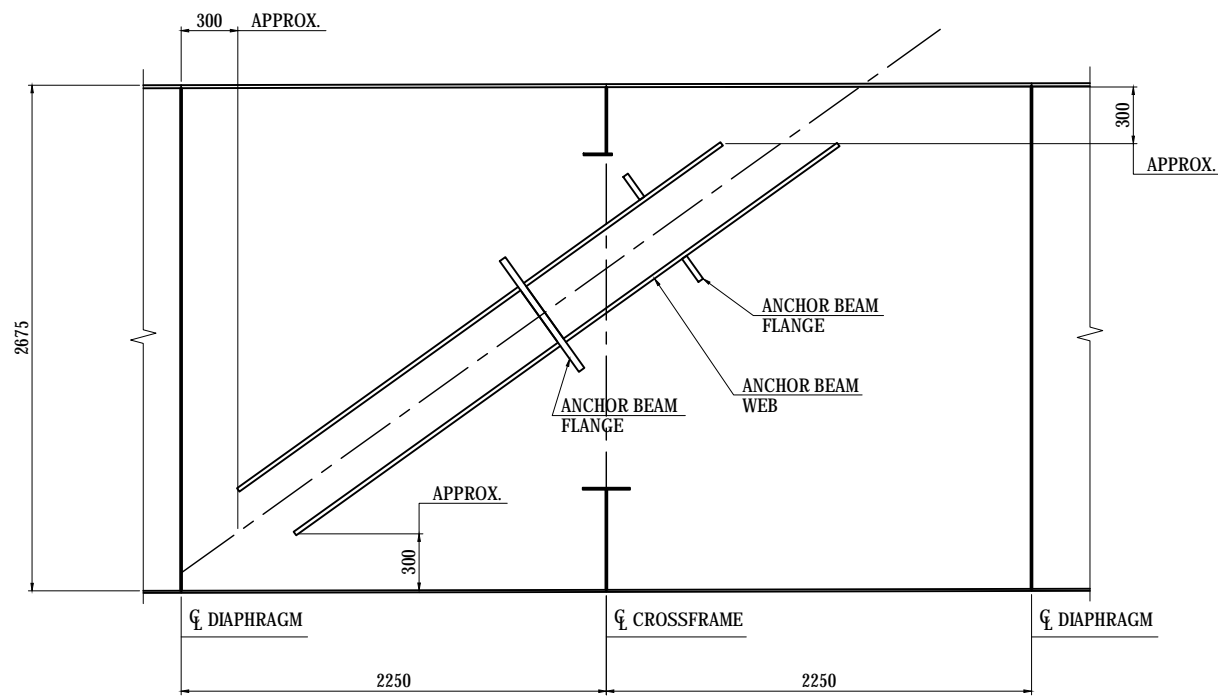


**NOTES:**  
1 - THIS DWG WORKS WITH DWG NO. P1-CS-1523.

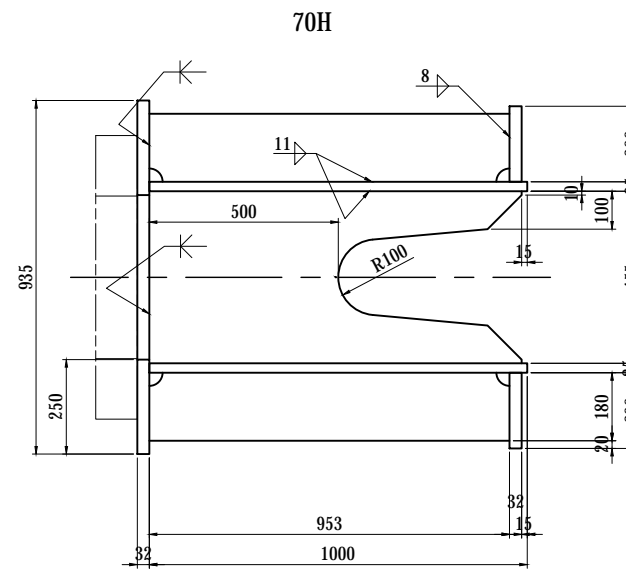
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>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: 20%;">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<br><h3 style="text-align: center;">MAIN TOWER ANCHORAGE OF STAY CABLES</h3> <h4 style="text-align: center;">CABLE NO.C10 &amp; C11 (3)</h4> | PACKAGE<br>1<br>DWG No.<br>P1-CS-1525 |
|---|--|---|--|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|---|---------------------------------------|
|   | NAME   | SIGNATURE   | DATE   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |                                       |
| PREPARED BY   | T.TOMODA   |   | 27. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |                                       |
| CHECKED BY  | T. HAYAKAWA  |   | 28. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |                                       |
| APPROVED BY   | Y. SANO  |   | 29. Nov.2017   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |                                       |

# STAY CABLE ANCHORAGE DETAIL - ANCHOR BEAM S=1:20

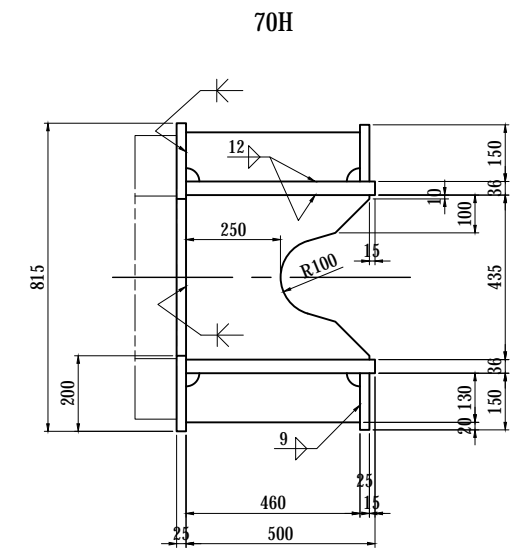
## SECTION FOR INNER WEB S=1:40



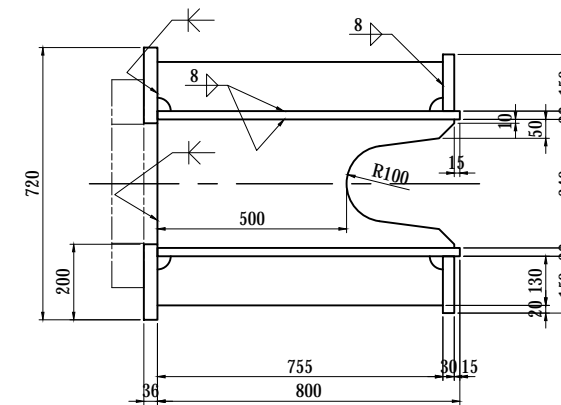
## MAIN GIRDER SIDE



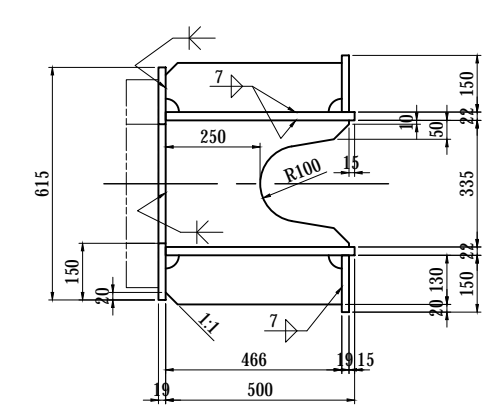
## MAIN TOWER SIDE



## 37H

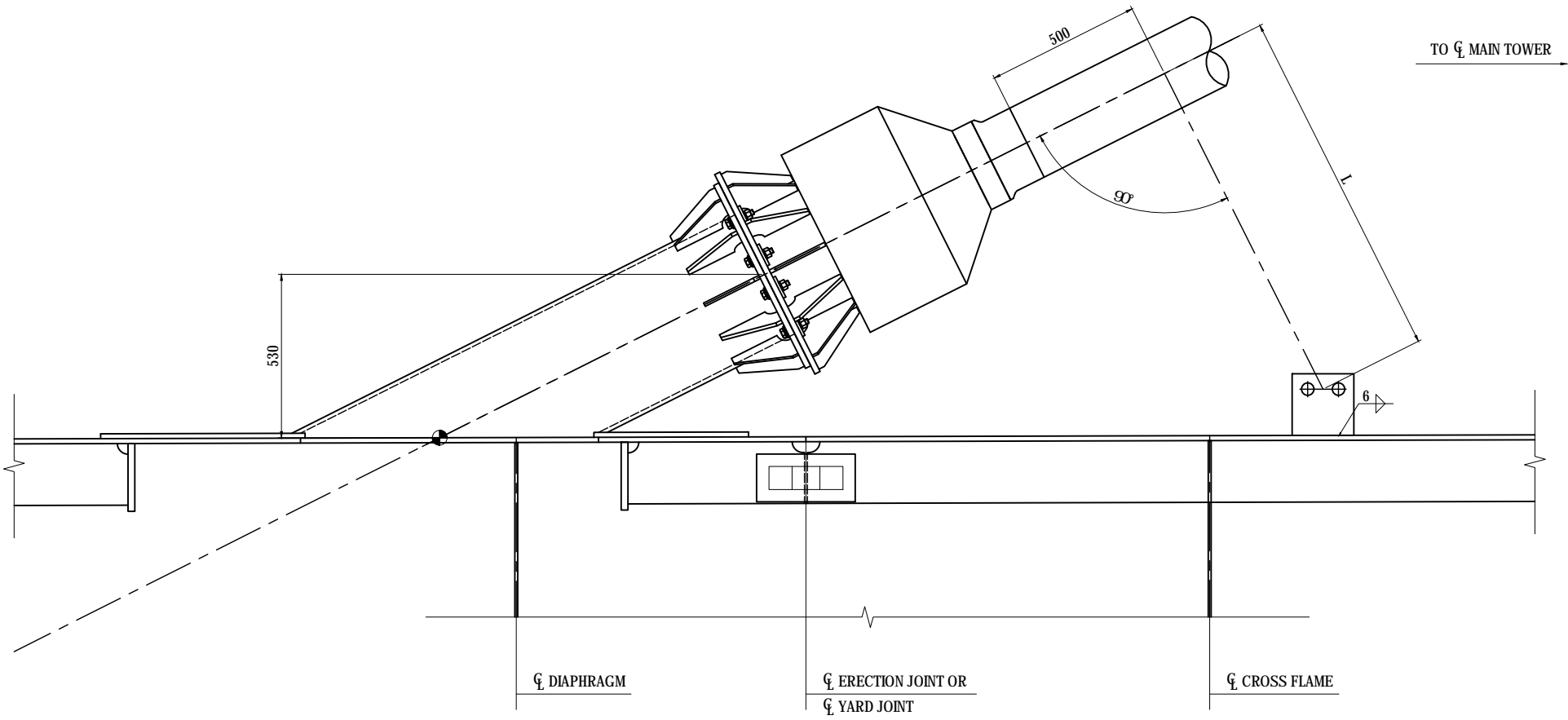


## 37H



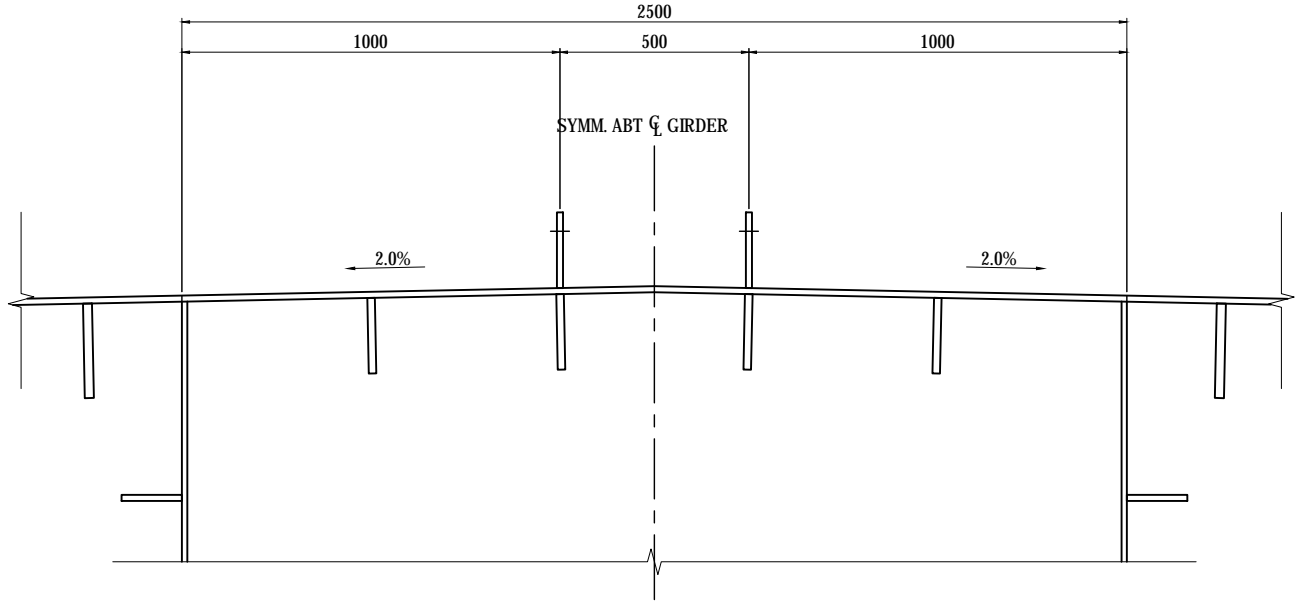
| PROJECT NAME  | FINANCED BY                                 | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE | DATE          | DRAWING TITLE                             | PACKAGE    |
|---|---|--|---|-------------|-----------|---------------|---|------------|
| DETAILED DESIGN ON BAGO RIVER 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 | STAY CABLE ANCHORAGE DETAIL - ANCHOR BEAM | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov. 2017 |   | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov. 2017 |   | P1-CS-1526 |

# MAIN GIRDER STAY CABLE ANCHORAGE DETAIL - STEADY PIECE FOR DAMPER S=1:20

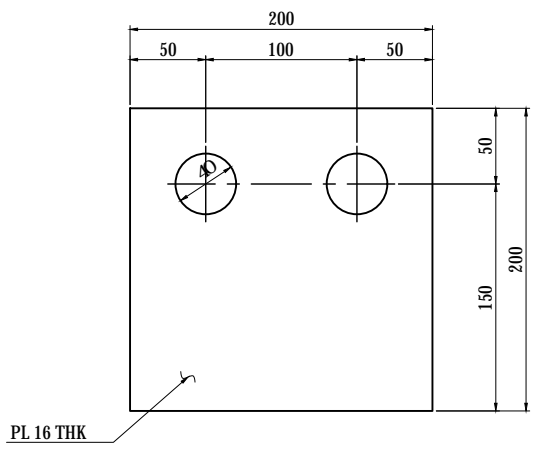


| STAY CABLE NO. | L      |
|----------------|--------|
| C1 , C40       | 1145.8 |
| C2 , C39       | 1188.6 |
| C3 , C38       | 1240.4 |
| C4 , C37       | 1305.5 |
| C5 , C36       | 1389.4 |
| C6 , C35       | 1477.5 |
| C7 , C34       | 1621.9 |
| C8 , C33       | 1827.5 |
| C9 , C32       | 2144.5 |
| C10 , C31      | 2696.6 |
| C11 , C30      | 2708.3 |
| C12 , C29      | 2152.4 |
| C13 , C28      | 1833.8 |
| C14 , C27      | 1627.6 |
| C15 , C26      | 1482.8 |
| C16 , C25      | 1394.7 |
| C17 , C24      | 1310.5 |
| C18 , C23      | 1244.3 |
| C19 , C22      | 1191.2 |
| C20 , C21      | 1147.7 |

## CROSS SECTION



## DETAIL S=1:5

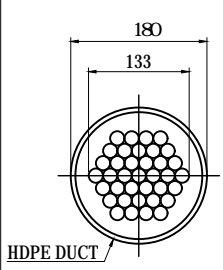
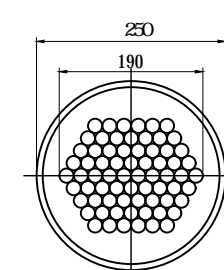


**NOTES:**  
1 - THIS DWG FOR REFERENCE.

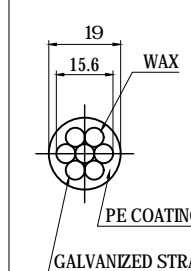
|  |   |  |   |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
|--|---|--|---|--|--|------|-----------|------|-------------|----------|--|--------------|------------|-------------|--|--------------|-------------|---------|--|--------------|---|--|
| <small>PROJECT NAME</small><br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | <small>FINANCED BY</small><br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | <small>COUNTERPART</small><br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | <small>JICA STUDY TEAM</small><br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 20%;">NAME</td> <td style="width: 20%;">SIGNATURE</td> <td style="width: 20%;">DATE</td> </tr> <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> </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><br><b>MAIN GIRDER STAY CABLE ANCHORAGE DETAIL<br/>                 - STEADY PIECE FOR DAMPER</b> | <small>PACKAGE</small><br>1<br>DWG No.<br>P1-CS-1527 |
|  | NAME  | SIGNATURE  | DATE  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| PREPARED BY  | T.TOMODA  |  | 27. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| CHECKED BY   | T. HAYAKAWA   |  | 28. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |
| APPROVED BY  | Y. SANO   |  | 29. Nov.2017  |  |  |      |           |      |             |          |  |              |            |             |  |              |             |         |  |              |   |  |

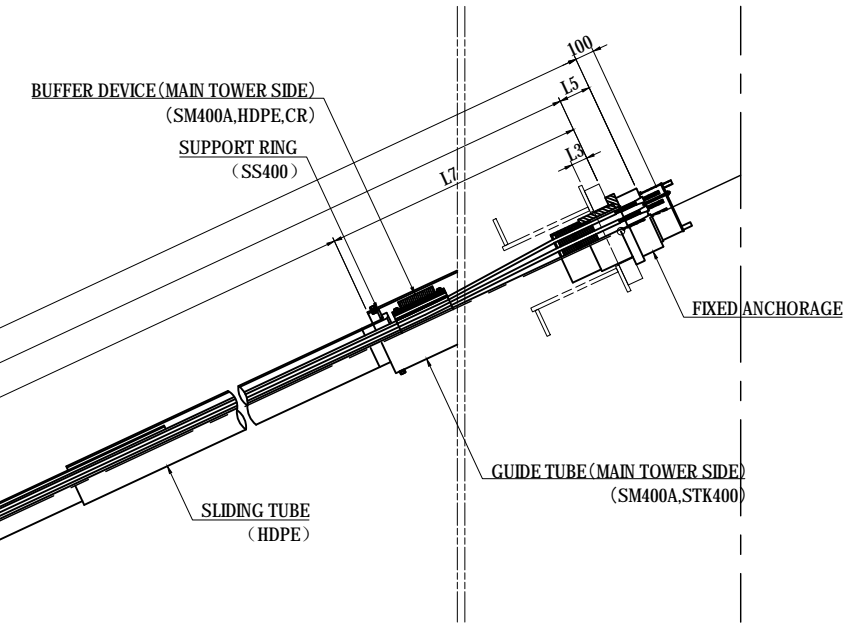
# GENERAL VIEW OF STAY CABLE S=1:40

## CABLE CROSS SECTION

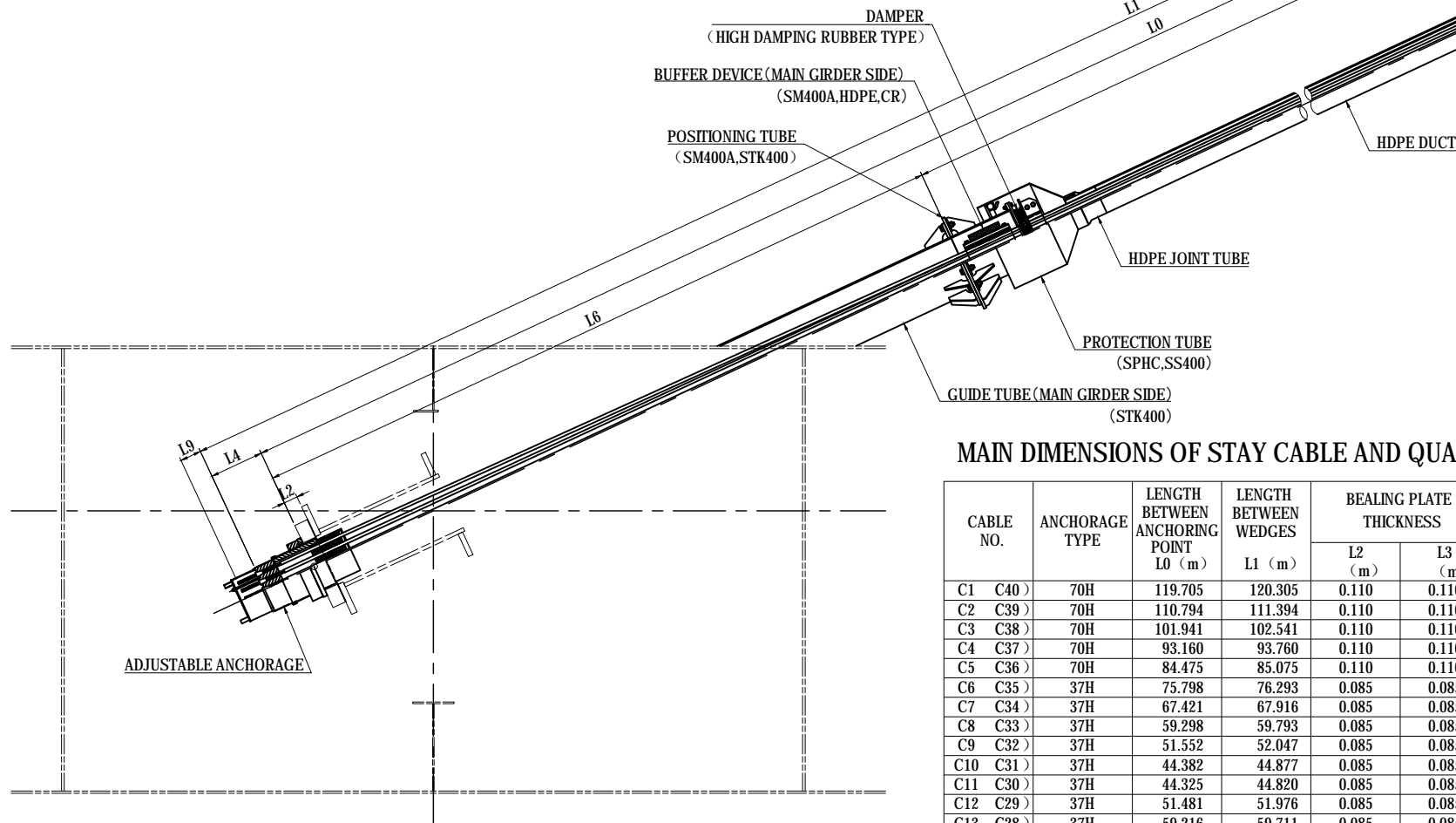
| ANCHORAGE TYPE                     | 37H   | 70H   |
|------------------------------------|---|---|
| CABLE CROSS SECTION                |  |  |
| NOM.AREA                           | 5420 mm <sup>2</sup>  | 10255 mm <sup>2</sup>   |
| TENSILE STRENGTH                   | 9657 kN   | 18270 kN  |
| ELASTIC MODULUS                    | 190 kN/mm <sup>2</sup>  | 190 kN/mm <sup>2</sup>  |
| UNIT WEIGHT<br>(STRANDS+HDPE DUCT) | 50.8 kg/m<br>(37x1.288+3.1)   | 96.0 kg/m<br>(70x1.288+5.8)   |

## STRAND CROSS SECTION

|                                       | STRAND  |
|---------------------------------------|---|
| STRAND CROSS SECTION                  |  |
| NOM.AREA                              | 146.5 mm <sup>2</sup>   |
| TENSILE STRENGTH                      | 261 kN  |
| ELASTIC MODULUS                       | 190 kN/mm <sup>2</sup>  |
| UNIT WEIGHT<br>(STRANDS+HDPE COATING) | 1.288 kg/m  |



MAIN TOWER SIDE



MAIN GIRDER SIDE

### MAIN DIMENSIONS OF STAY CABLE AND QUANTITY OF STRANDS

| CABLE NO. | ANCHORAGE TYPE | LENGTH BETWEEN ANCHORING POINT L0 (m) | LENGTH BETWEEN WEDGES L1 (m) | BEALING PLATE THICKNESS |        | ANCHORAGE LENGTH |        | GUIDE TUBE LENGTH |        | CABLE PROTECTIVE LENGTH L8 (m) | EXTRA LENGTH AT MAIN GIRDER L9 (m) | MANUFACTURING LENGTH S (m) | STRANDS WEIGHT W (kg) | NO. OF CABLE | STRANDS TOTAL WEIGHT W1 (kg) |
|-----------|----------------|---------------------------------------|------------------------------|-------------------------|--------|------------------|--------|-------------------|--------|--------------------------------|------------------------------------|----------------------------|-----------------------|--------------|------------------------------|
|           |                |                                       |                              | L2 (m)                  | L3 (m) | L4 (m)           | L5 (m) | L6 (m)            | L7 (m) |                                |                                    |                            |                       |              |                              |
| C1 C40    | 70H            | 119.705                               | 120.305                      | 0.110                   | 0.110  | 0.395            | 0.210  | 4.062             | 1.482  | 114.161                        | 0.160                              | 121.810                    | 10001.8               | 2            | 20003.6                      |
| C2 C39    | 70H            | 110.794                               | 111.394                      | 0.110                   | 0.110  | 0.395            | 0.210  | 3.927             | 1.512  | 105.355                        | 0.160                              | 112.899                    | 9270.1                | 2            | 18540.2                      |
| C3 C38    | 70H            | 101.941                               | 102.541                      | 0.110                   | 0.110  | 0.395            | 0.210  | 3.782             | 1.543  | 96.616                         | 0.160                              | 104.046                    | 8543.2                | 2            | 17086.4                      |
| C4 C37    | 70H            | 93.160                                | 93.760                       | 0.110                   | 0.110  | 0.395            | 0.210  | 3.625             | 1.582  | 87.953                         | 0.160                              | 95.265                     | 7822.2                | 2            | 15644.4                      |
| C5 C36    | 70H            | 84.475                                | 85.075                       | 0.110                   | 0.110  | 0.395            | 0.210  | 3.455             | 1.633  | 79.387                         | 0.160                              | 86.580                     | 7109.1                | 2            | 14218.2                      |
| C6 C35    | 37H            | 75.798                                | 76.293                       | 0.085                   | 0.085  | 0.330            | 0.170  | 3.155             | 1.553  | 71.090                         | 0.130                              | 77.798                     | 3376.5                | 2            | 6753.0                       |
| C7 C34    | 37H            | 67.421                                | 67.916                       | 0.085                   | 0.085  | 0.330            | 0.170  | 2.968             | 1.654  | 62.799                         | 0.130                              | 69.421                     | 3012.9                | 2            | 6025.8                       |
| C8 C33    | 37H            | 59.298                                | 59.793                       | 0.085                   | 0.085  | 0.330            | 0.170  | 2.775             | 1.809  | 54.714                         | 0.130                              | 61.298                     | 2660.4                | 2            | 5320.8                       |
| C9 C32    | 37H            | 51.552                                | 52.047                       | 0.085                   | 0.085  | 0.330            | 0.170  | 2.579             | 2.069  | 46.904                         | 0.130                              | 53.552                     | 2324.2                | 2            | 4648.4                       |
| C10 C31   | 37H            | 44.382                                | 44.877                       | 0.085                   | 0.085  | 0.330            | 0.170  | 2.387             | 2.464  | 39.531                         | 0.130                              | 46.382                     | 2013.0                | 2            | 4026.0                       |
| C11 C30   | 37H            | 44.325                                | 44.820                       | 0.085                   | 0.085  | 0.330            | 0.170  | 2.386             | 2.458  | 39.481                         | 0.130                              | 46.325                     | 2010.6                | 2            | 4021.2                       |
| C12 C29   | 37H            | 51.481                                | 51.976                       | 0.085                   | 0.085  | 0.330            | 0.170  | 2.578             | 2.065  | 46.838                         | 0.130                              | 53.481                     | 2321.1                | 2            | 4642.2                       |
| C13 C28   | 37H            | 59.216                                | 59.711                       | 0.085                   | 0.085  | 0.330            | 0.170  | 2.775             | 1.805  | 54.636                         | 0.130                              | 61.216                     | 2656.8                | 2            | 5313.6                       |
| C14 C27   | 37H            | 67.329                                | 67.824                       | 0.085                   | 0.085  | 0.330            | 0.170  | 2.968             | 1.650  | 62.711                         | 0.130                              | 69.329                     | 3008.9                | 2            | 6017.8                       |
| C15 C26   | 37H            | 75.698                                | 76.193                       | 0.085                   | 0.085  | 0.330            | 0.170  | 3.155             | 1.549  | 70.994                         | 0.130                              | 77.698                     | 3372.2                | 2            | 6744.4                       |
| C16 C25   | 70H            | 84.367                                | 84.967                       | 0.110                   | 0.110  | 0.395            | 0.210  | 3.455             | 1.631  | 79.281                         | 0.160                              | 86.472                     | 7100.2                | 2            | 14200.4                      |
| C17 C24   | 70H            | 93.045                                | 93.645                       | 0.110                   | 0.110  | 0.395            | 0.210  | 3.626             | 1.580  | 87.839                         | 0.160                              | 95.150                     | 7812.8                | 2            | 15625.6                      |
| C18 C23   | 70H            | 101.819                               | 102.419                      | 0.110                   | 0.110  | 0.395            | 0.210  | 3.786             | 1.541  | 96.492                         | 0.160                              | 103.924                    | 8533.2                | 2            | 17066.4                      |
| C19 C22   | 70H            | 110.666                               | 111.266                      | 0.110                   | 0.110  | 0.395            | 0.210  | 3.935             | 1.511  | 105.220                        | 0.160                              | 112.771                    | 9259.6                | 2            | 18519.2                      |
| C20 C21   | 70H            | 119.570                               | 120.170                      | 0.110                   | 0.110  | 0.395            | 0.210  | 4.074             | 1.481  | 114.015                        | 0.160                              | 121.675                    | 9990.7                | 2            | 19981.4                      |
| TOTAL     |                |                                       |                              |                         |        |                  |        |                   |        |                                |                                    |                            | 40                    | 224399.0     |                              |

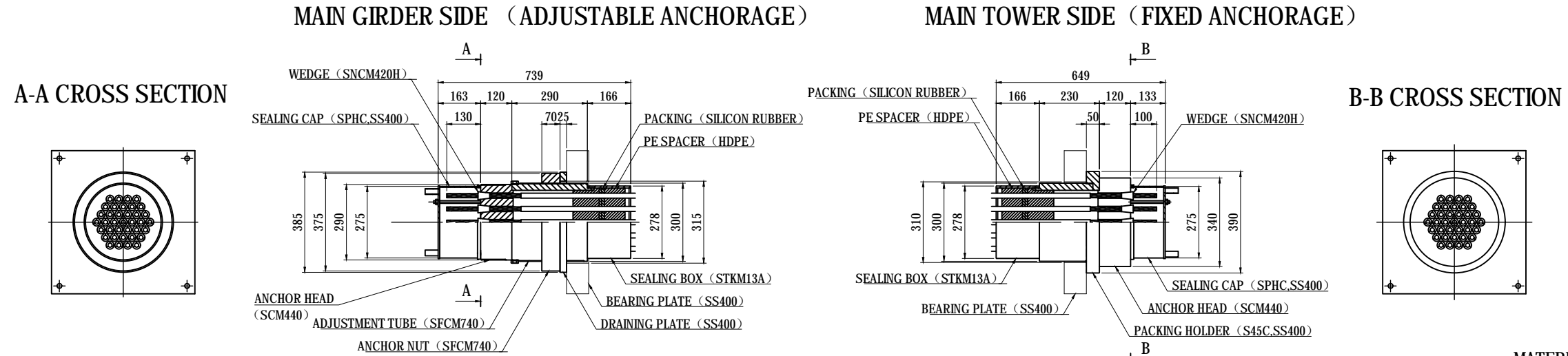
#### NOTES:

- 1 - THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECTED TO THE ENGINEER'S APPROVAL.
- 2 - MANUFACTURING LENGTH OF CABLE IS CALCULATED BY S=L1+1.5.
- 3 - THE WEIGHT OF STRANDS IS CALCULATED BY UNIT WEIGHT OF EXCLUDED PE COATING.  
(UNIT WEIGHT: 1.173kg/m)

|   |  |   |  |  |  |  |   |                                       |
|---|--|---|--|--|--|--|---|---------------------------------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br> JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br> REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br> NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME<br>T.TOMODA<br>T. HAYAKAWA<br>Y. SANO | SIGNATURE<br><br><br> | DATE<br>27. Nov.2017<br>28. Nov.2017<br>29. Nov.2017 | DRAWING TITLE<br>GENERAL VIEW OF STAY CABLE | PACKAGE<br>1<br>DWG No.<br>P1-CS-1528 |
|---|--|---|--|--|--|--|---|---------------------------------------|

# DETAIL OF STAY CABLE ANCHORAGE S=1:20

## 37H TYPE ANCHORAGE APPLICABLE CABLE NO.: C6 TO C15, C26 TO C35



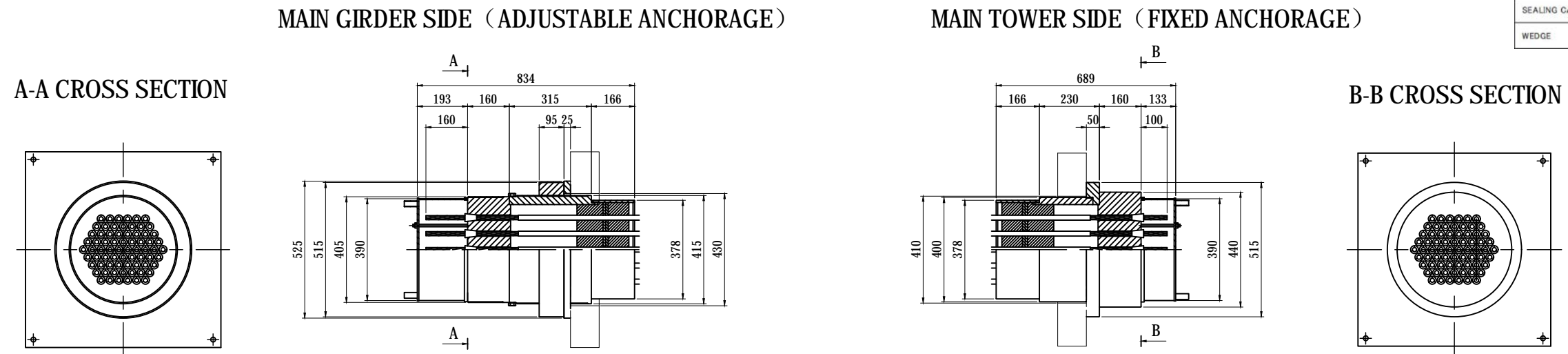
37H TYPE ANCHORAGE QUANTITY

| TYPE                                    | TOTAL QUANTITY (set) | UNIT WEIGHT (kg) |
|---|----------------------|------------------|
| MAIN GIRDER SIDE (ADJUSTABLE ANCHORAGE) | 20                   | 170              |
| MAIN TOWER SIDE (FIXED ANCHORAGE)       | 20                   | 165              |

MATERIAL LIST

| ANCHORAGE PARTS | MATERIAL GRADE       | ANTICORROSIVE TREATMENT        |
|-----------------|----------------------|--------------------------------|
| ANCHOR HEAD     | JIS G 4053 SCM440    | ERECTROPLANTED COATING 13 μ    |
| ADJUSTMENT TUBE | JIS G 3221 SFCM740   | ZN-AL ALLOY SPLAYING 100 μ     |
| ANCHOR NUT      | JIS G 3221 SFCM740   | ELECTROPLATED COATING 13 μ     |
| PACKING HOLDER  | FLANGE PART<br>SS400 | ZN-AL ALLOY SPLAYING 100 μ     |
|                 | PIPE PART<br>S45C    | ZN-AL ALLOY SPLAYING 100 μ     |
| DRAINING PLATE  | JIS G 3101 SS400     | ZINC HOT DIP GALVANIZING HDZ55 |
| SEALING BOX     | JIS G 3445 STKM13A   | ZN-AL ALLOY SPLAYING 100 μ     |
| SEALING CAP     | JIS G 3101 SS400     | ZINC HOT DIP GALVANIZING HDZ55 |
| WEDGE           | JIS G 4052 SNCM420H  | ANTICORROSIVE OIL              |

## 70H TYPE ANCHORAGE APPLICABLE CABLE NO.: C1 TO C5, C16 TO C25 & C36 TO C40



70H TYPE ANCHORAGE QUANTITY

| TYPE                                    | TOTAL QUANTITY (set) | UNIT WEIGHT (kg) |
|---|----------------------|------------------|
| MAIN GIRDER SIDE (ADJUSTABLE ANCHORAGE) | 20                   | 368              |
| MAIN TOWER SIDE (FIXED ANCHORAGE)       | 20                   | 304              |

**NOTES:**

1 - THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECTED TO THE ENGINEER'S APPROVAL.

# DETAIL OF STAY CABLE BEARING PLATE S=1:20

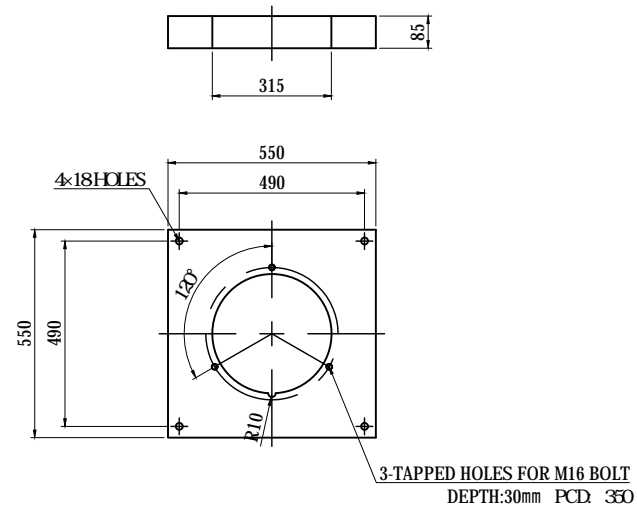
## 37H TYPE BEARING PLATE

APPLICABLE CABLE NO. : C6 TO C15, C26 TO C35

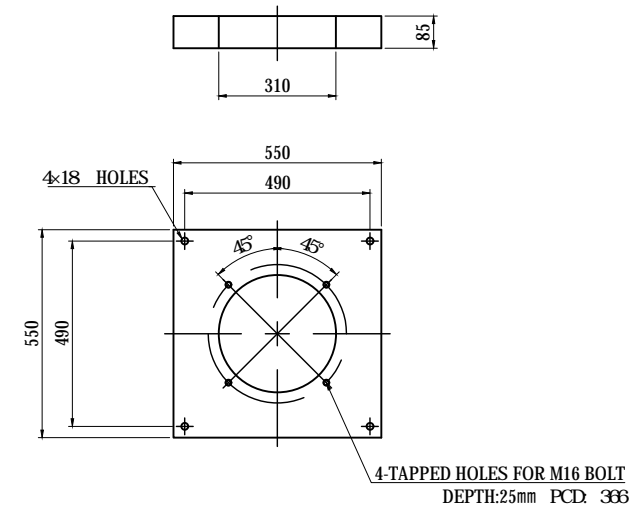
MATERIAL GRADE : SS400 (JIS G 3101)

ANTICORROSION TREATMENT : ZINC HOT GALVANIZING HDZ55 (JIS H 8641)

### MAIN GIRDER SIDE



### MAIN TOWER SIDE



### 37H TYPE BEARING PLATE QUANTITY

| SETTING SIDE     | TOTAL QUANTITY | UNIT WEIGHT (kg) |
|------------------|----------------|------------------|
| MAIN GIRDER SIDE | 20             | 149.8            |
| MAIN TOWER SIDE  | 20             | 151.5            |

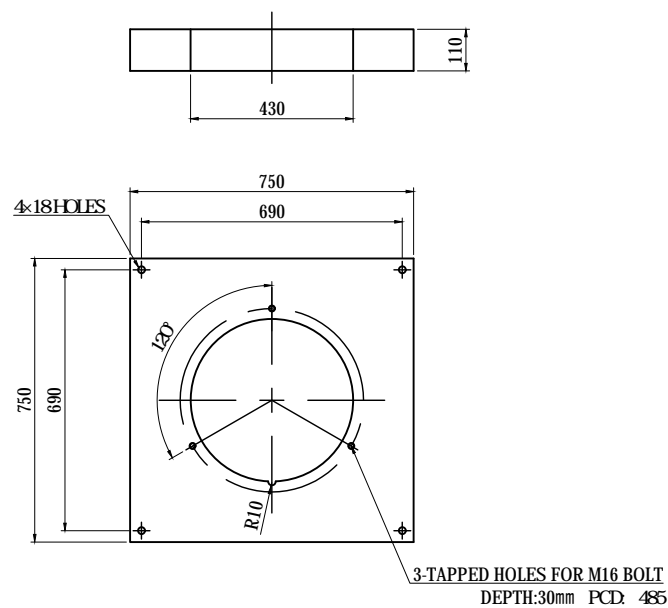
## 70H TYPE BEARING PLATE

APPLICABLE CABLE NO. : C1 TO C5, C16 TO C25 & C36 TO C40

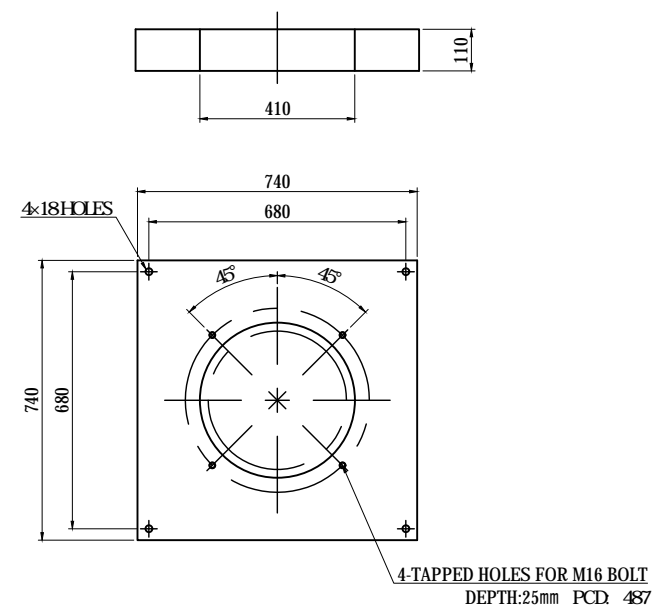
MATERIAL GRADE : SS400 (JIS G 3101)

ANTICORROSION TREATMENT : ZINC HOT GALVANIZING HDZ55 (JIS H 8641)

### MAIN GIRDER SIDE



### MAIN TOWER SIDE



### 70H TYPE BEARING PLATE QUANTITY

| SETTING SIDE     | TOTAL QUANTITY | UNIT WEIGHT (kg) |
|------------------|----------------|------------------|
| MAIN GIRDER SIDE | 20             | 360.3            |
| MAIN TOWER SIDE  | 20             | 358.8            |

### NOTES:

1 - THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECTED TO THE ENGINEER'S APPROVAL.

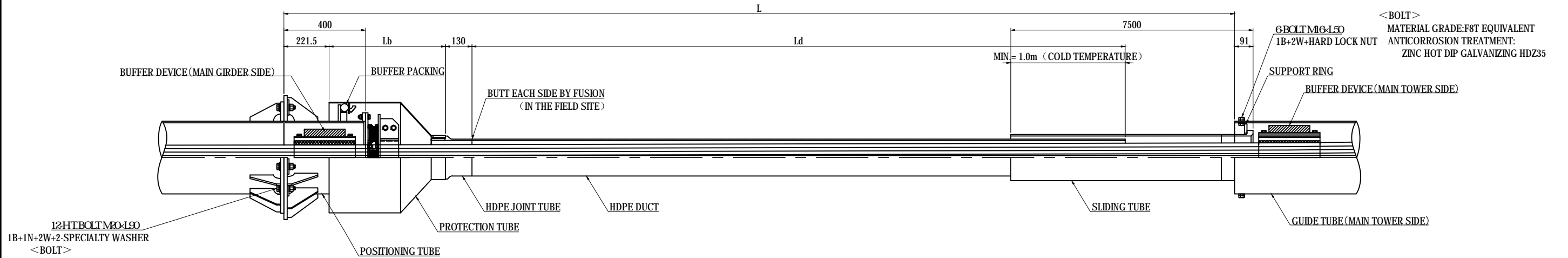
| PROJECT NAME  | FINANCED BY                                 | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE | DATE          | DRAWING TITLE                      | PACKAGE    |
|---|---|--|---|-------------|-----------|---------------|------------------------------------|------------|
| 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 STAY CABLE BEARING PLATE | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov. 2017 |                                    | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov. 2017 |                                    | P1-CS-1530 |

# DETAIL OF STAY CABLE PROTECTION ITEM (1)

S=1:20

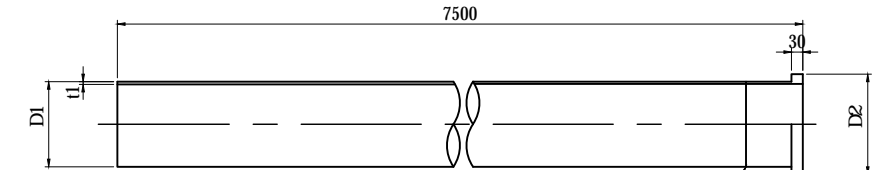
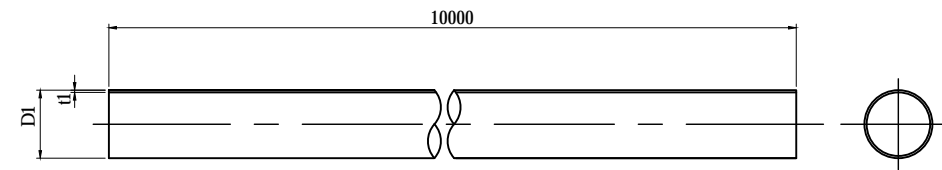
## MAIN GIRDER SIDE ANCHORING STRUCTURE

## MAIN TOWER SIDE ANCHORING STRUCTURE



**HDPE DUCT**  
MATERIAL GRADE: HDPE (JIS K 6761)

**SLIDING TUBE**  
MATERIAL GRADE: HDPE (JIS K 6761)



### HDPE DUCT DIMENSION AND QUANTITY

| CABLE NO. | ANCHORAGE TYPE | CABLE PROTECTIVE LENGTH L8 (m) | PROTECTION TUBE LENGTH Lp (mm) | HDPE DUCT DIMENSION   |                           | NO. OF CABLE | TOTAL LENGTH (m) |
|-----------|----------------|--------------------------------|--------------------------------|-----------------------|---------------------------|--------------|------------------|
|           |                |                                |                                | OUTSIDE DIAMETER (mm) | LENGTH (COLD TEMP) Ld (m) |              |                  |
| C1 (C40)  | 70H            | 114.161                        | 600                            | 250                   | 106.800                   | 2            | 213.600          |
| C2 (C39)  | 70H            | 105.355                        | 600                            | 250                   | 97.994                    | 2            | 195.988          |
| C3 (C38)  | 70H            | 96.616                         | 600                            | 250                   | 89.255                    | 2            | 178.510          |
| C4 (C37)  | 70H            | 87.953                         | 600                            | 250                   | 80.592                    | 2            | 161.184          |
| C5 (C36)  | 70H            | 79.387                         | 600                            | 250                   | 72.026                    | 2            | 144.052          |
| C6 (C35)  | 37H            | 71.090                         | 570                            | 180                   | 63.759                    | 2            | 127.518          |
| C7 (C34)  | 37H            | 62.799                         | 570                            | 180                   | 55.468                    | 2            | 110.936          |
| C8 (C33)  | 37H            | 54.714                         | 570                            | 180                   | 47.383                    | 2            | 94.766           |
| C9 (C32)  | 37H            | 46.904                         | 570                            | 180                   | 39.573                    | 2            | 79.146           |
| C10 (C31) | 37H            | 39.531                         | 570                            | 180                   | 32.200                    | 2            | 64.400           |
| C11 (C30) | 37H            | 39.481                         | 570                            | 180                   | 32.150                    | 2            | 64.300           |
| C12 (C29) | 37H            | 46.838                         | 570                            | 180                   | 39.507                    | 2            | 79.014           |
| C13 (C28) | 37H            | 54.636                         | 570                            | 180                   | 47.305                    | 2            | 94.610           |
| C14 (C27) | 37H            | 62.711                         | 570                            | 180                   | 55.380                    | 2            | 110.760          |
| C15 (C26) | 37H            | 70.994                         | 570                            | 180                   | 63.663                    | 2            | 127.326          |
| C16 (C25) | 70H            | 79.281                         | 600                            | 250                   | 71.920                    | 2            | 143.840          |
| C17 (C24) | 70H            | 87.839                         | 600                            | 250                   | 80.478                    | 2            | 160.956          |
| C18 (C23) | 70H            | 96.492                         | 600                            | 250                   | 89.131                    | 2            | 178.262          |
| C19 (C22) | 70H            | 105.220                        | 600                            | 250                   | 97.859                    | 2            | 195.718          |
| C20 (C21) | 70H            | 114.015                        | 600                            | 250                   | 106.654                   | 2            | 213.308          |
| TOTAL     |                |                                |                                |                       |                           |              | 2738.194         |
|           |                |                                |                                |                       |                           |              | 180              |
|           |                |                                |                                |                       |                           |              | 250              |
|           |                |                                |                                |                       |                           |              | 1785.418         |

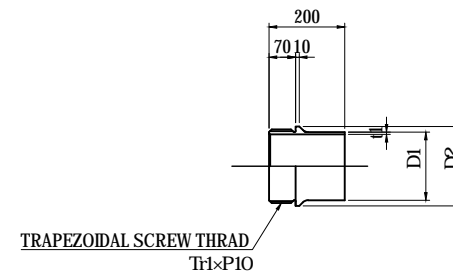
### HDPE DUCT DIMENSION

| ANCHORAGE TYPE | APPLICABLE CABLE NO.              | OUTSIDE DIAMETER |         | THICKNESS t1 (mm) | UNIT WEIGHT (kg/m) |
|----------------|-----------------------------------|------------------|---------|-------------------|--------------------|
|                |                                   | D1 (mm)          | D2 (mm) |                   |                    |
| 37H            | C6 TO C15, C26 TO C35             | 180              | 210     | 6                 | 3.1                |
| 70H            | C1 TO C5, C16 TO C25 & C36 TO C40 | 250              | 284     | 8                 | 5.8                |

### SLIDING TUBE DIMENSION AND QUANTITY

| ANCHORAGE TYPE | APPLICABLE CABLE NO.              | OUTSIDE DIAMETER |         | THICKNESS t1 (mm) | TOTAL QUANTITY | UNIT WEIGHT (kg) |
|----------------|-----------------------------------|------------------|---------|-------------------|----------------|------------------|
|                |                                   | D1 (mm)          | D2 (mm) |                   |                |                  |
| 37H            | C6 TO C15, C26 TO C35             | 225              | 265     | 7                 | 20             | 35.0             |
| 70H            | C1 TO C5, C16 TO C25 & C36 TO C40 | 280              | 320     | 9                 | 20             | 55.7             |

**HDPE JOINT TUBE**  
MATERIAL GRADE: HDPE (JIS K 6761)

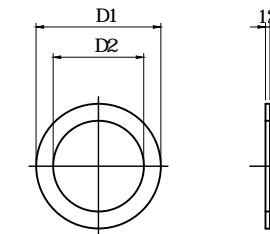


### HDPE JOINT TUBE DIMENSION AND QUANTITY

| ANCHORAGE TYPE | APPLICABLE CABLE NO.              | OUTSIDE DIAMETER |         | THICKNESS t1 (mm) | Tr1 (mm) | TOTAL QUANTITY | UNIT WEIGHT (kg) |
|----------------|-----------------------------------|------------------|---------|-------------------|----------|----------------|------------------|
|                |                                   | D1 (mm)          | D2 (mm) |                   |          |                |                  |
| 37H            | C6 TO C15, C26 TO C35             | 180              | 210     | 6                 | 195      | 20             | 1.0              |
| 70H            | C1 TO C5, C16 TO C25 & C36 TO C40 | 250              | 284     | 8                 | 265      | 20             | 1.7              |

**SUPPORT RING**

MATERIAL GRADE: SS400 (JIS G 3101)  
ANTICORROSION TREATMENT: ZINC HOT DIP GALVANIZING HZD55 (JIS H 8641)



### SUPPORT RING DIMENSION AND QUANTITY

| ANCHORAGE TYPE | APPLICABLE CABLE NO.              | OUTSIDE DIAMETER | INSIDE DIAMETER | TOTAL QUANTITY | UNIT WEIGHT (kg) |
|----------------|-----------------------------------|------------------|-----------------|----------------|------------------|
|                |                                   | D1 (mm)          | D2 (mm)         |                |                  |
| 37H            | C6 TO C15, C26 TO C35             | 330              | 240             | 20             | 3.8              |
| 70H            | C1 TO C5, C16 TO C25 & C36 TO C40 | 419              | 295             | 20             | 6.6              |

### NOTES:

1 - THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECTED TO THE ENGINEER'S APPROVAL.



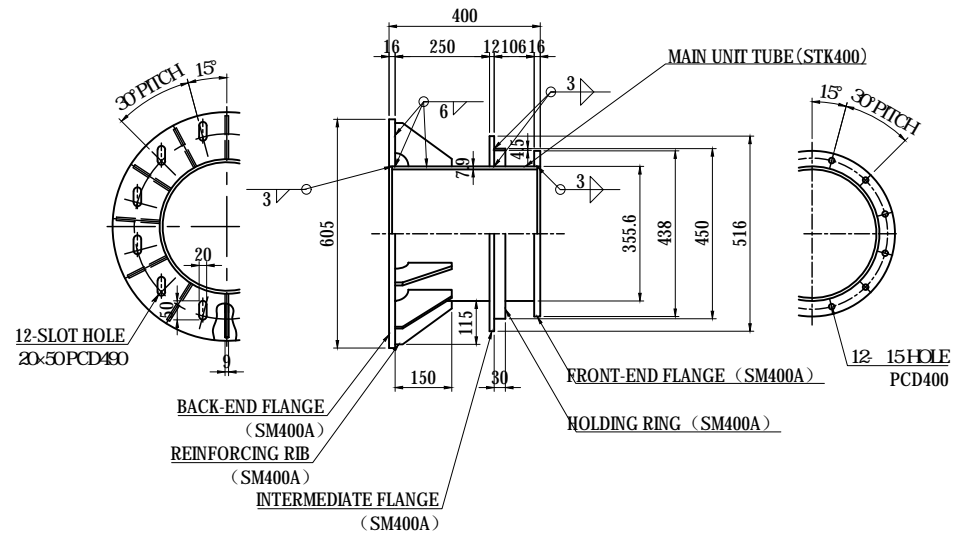
# DETAIL OF STAY CABLE PROTECTION ITEM (2)

S=1:20

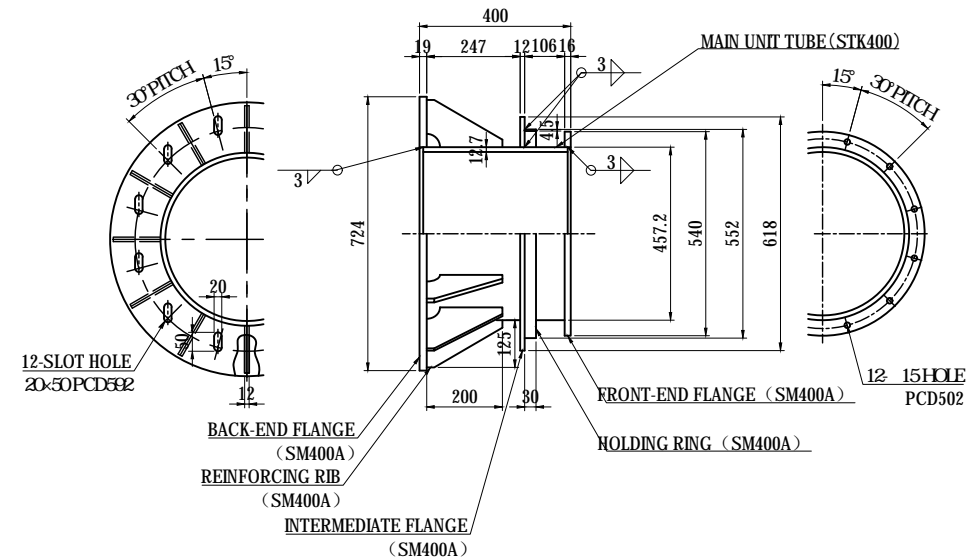
## POSITIONING TUBE

MATERIAL GRADE : SM400A (JIS G 3106) ,STK400 (JIS G 3444)  
 ANTICORROSION TREATMENT : ZINC HOT DIP GALVANIZING HDZ55 (JIS H 8641)

### 37H TYPE POSITIONING TUBE



### 70H TYPE POSITIONING TUBE

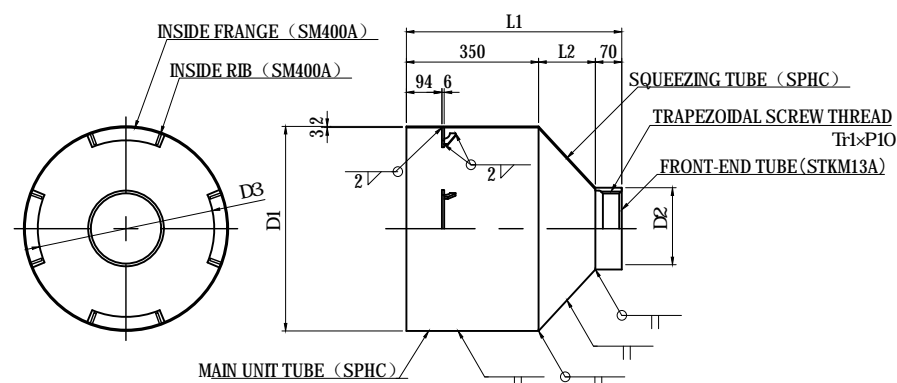


### POSITIONING TUBE QUANTITY

| ANCHORAGE TYPE | APPLICABLE CABLE NO.              | TOTAL QUANTITY | UNIT WEIGHT (kg) |
|----------------|-----------------------------------|----------------|------------------|
| 37H            | C6 TO C15, C26 TO C35             | 20             | 75.7             |
| 70H            | C1 TO C5, C16 TO C25 & C36 TO C40 | 20             | 124.8            |

## PROTECTION TUBE

MATERIAL GRADE : SPHC (JIS G 3131) ,SM400A (JIS G3106) ,  
 STKM13A (JIS G 3445)  
 ANTICORROSION TREATMENT : ZINC HOT DIP GALVANIZING HDZ35 (JIS H 8641)  
 AND THICK ANTICORROSION COAT (JAPAN ROAD ASSOCIATION ZC-1 COATING)



### PROTECTION TUBE DIMENSION AND QUANTITY

| ANCHORAGE TYPE | APPLICABLE CABLE NO.              | OUTSIDE DIAMETER |         | L1 (mm) | L2 (mm) | Tr1 (mm) | TOTAL QUANTITY | UNIT WEIGHT (kg) |
|----------------|-----------------------------------|------------------|---------|---------|---------|----------|----------------|------------------|
|                |                                   | D1 (mm)          | D2 (mm) |         |         |          |                |                  |
| 37H            | C6 TO C15, C26 TO C35             | 541              | 216.3   | 570     | 150     | 196      | 20             | 25.1             |
| 70H            | C1 TO C5, C16 TO C25 & C36 TO C40 | 643              | 280     | 600     | 180     | 266      | 20             | 30.8             |

### NOTES:

1 - THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECTED TO THE ENGINEER'S APPROVAL.

| PROJECT NAME  | FINANCED BY                                    | COUNTERPART  | JICA STUDY TEAM   | NAME        | SIGNATURE | DATE          | DRAWING TITLE                            | PACKAGE    |
|---|--|--|---|-------------|-----------|---------------|--|------------|
| DETAILED DESIGN ON BAGO RIVER BRIDGE CONSTRUCTION PROJECT | JICA<br>JAPAN INTERNATIONAL COOPERATION AGENCY | REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | T. TOMODA   | 友田 隆雄     | 27. Nov. 2017 | DETAIL OF STAY CABLE PROTECTION ITEM (2) | 1          |
|   |  |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov. 2017 |  | DWG No.    |
|   |  |  |   | Y. SANO     | 佐野 祐一     | 29. Nov. 2017 |  | P1-CS-1532 |

# DETAIL OF STAY CABLE PROTECTION ITEM (3)

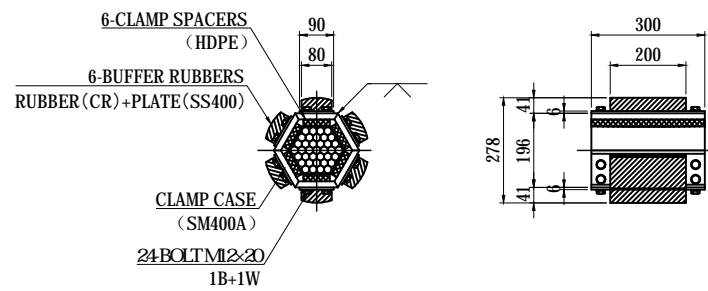
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## BUFFER DEVICE

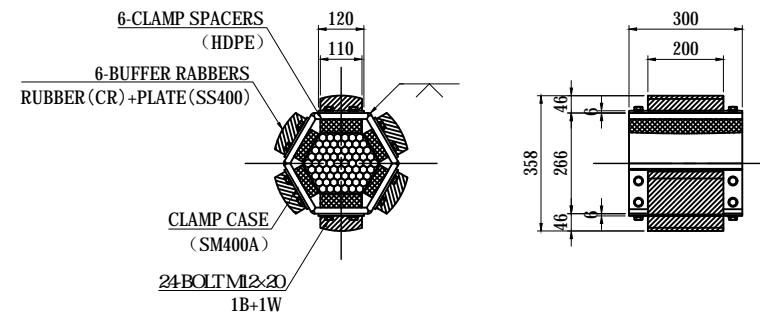
MATERIAL GRADE : SM400A ( JIS G 3106 ) ,SS400 ( JIS G 3101 ) ,  
CR ( JIS K 6253 ) ,HDPE ( JIS K 6922 )

ANTICORROSION TREATMENT : ZINC HOT DIP GALVANIZING HDZ55 ( JIS H 8641 )

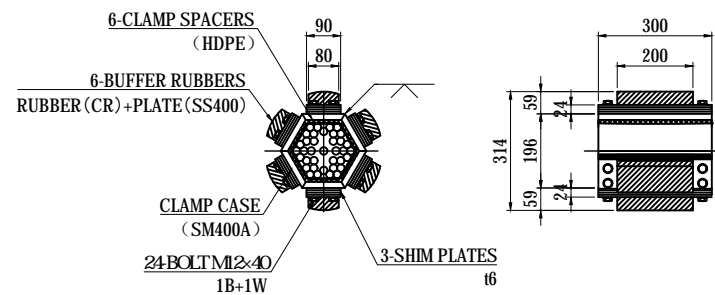
### 37H TYPE MAIN GIRDER SIDE BUFFER DEVICE



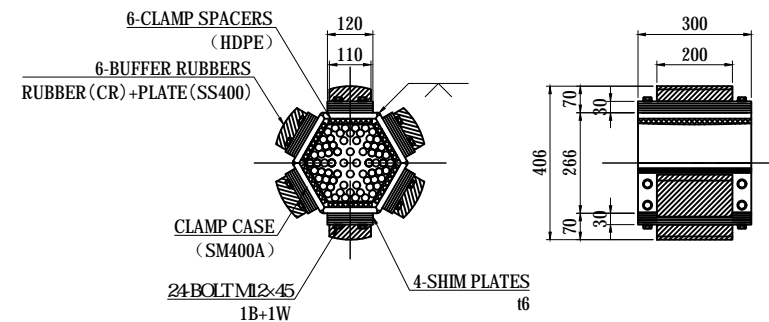
### 70H TYPE MAIN GIRDER SIDE BUFFER DEVICE



### 37H TYPE MAIN TOWER SIDE BUFFER DEVICE



### 70H TYPE MAIN TOWER SIDE BUFFER DEVICE



### BUFFER DEVICE QUANTITY

| ANCHORAGE TYPE | APPLICABLE CABLE NO.              | SETTING SIDE     | TOTAL QUANTITY | UNIT WEIGHT (kg) |
|----------------|-----------------------------------|------------------|----------------|------------------|
| 37H            | C6 TO C15, C26 TO C35             | MAIN GIRDER SIDE | 20             | 38.9             |
|                |                                   | MAIN TOWER SIDE  | 20             | 61.4             |
| 70H            | C1 TO C5, C16 TO C25 & C36 TO C40 | MAIN GIRDER SIDE | 20             | 56.0             |
|                |                                   | MAIN TOWER SIDE  | 20             | 94.6             |

< BOLT >

MATERIAL GRADE:F8T EQUIVALENT  
ANTICORROSION TREATMENT:ZINC HOT DIP GALVANIZING HDZ35

### NOTES:

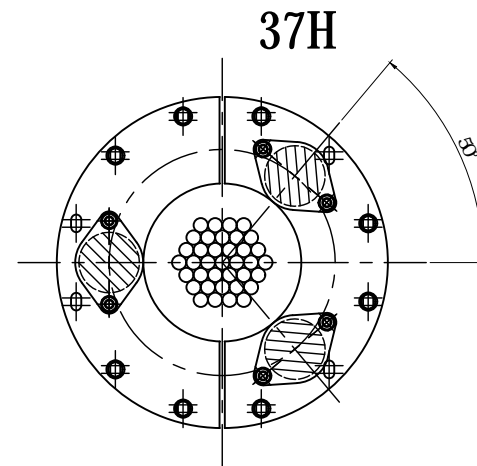
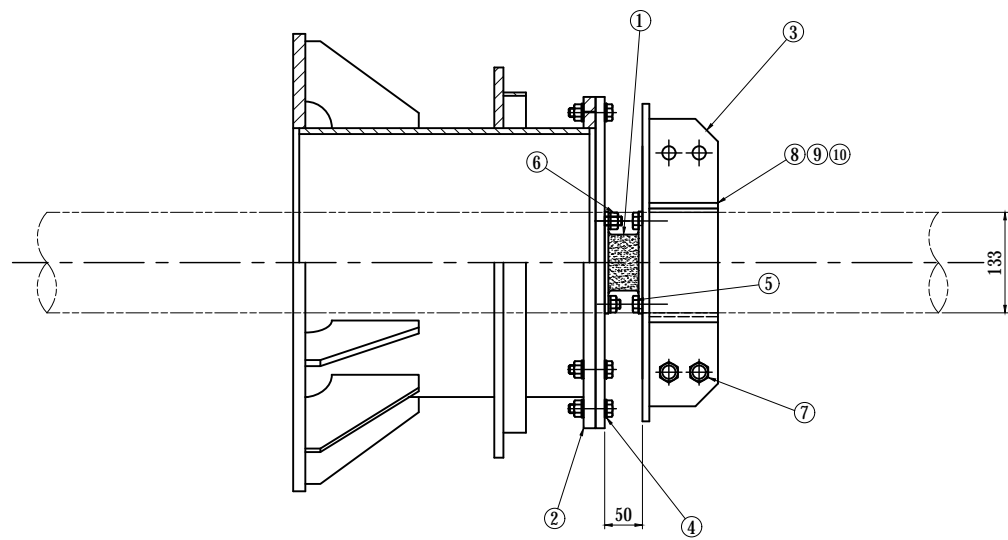
1 - THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECTED TO THE ENGINEER'S APPROVAL.

| 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 智博     | 27. Nov.2017 | DETAIL OF STAY CABLE PROTECTION ITEM (3) | 1          |
|   |   |  |   | T. HAYAKAWA | 平川 知平     | 28. Nov.2017 |  | DWG No.    |
|   |   |  |   | Y. SANO     | 佐野 祐一     | 29. Nov.2017 |  | P1-CS-1533 |

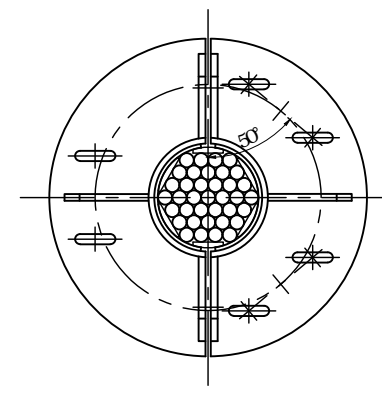
ASSEMBLY DRAWING

VIBRATION CONTROL DEVICE FOR STAY CABLE (1)

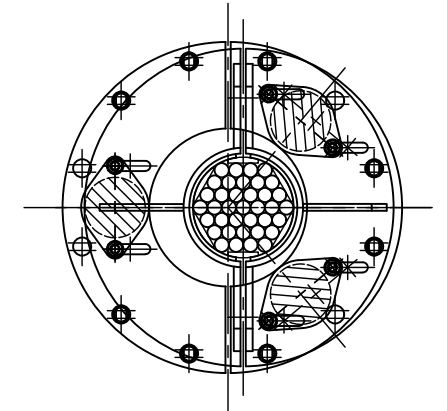
S=1:10



POSITION FOR SUPPORTING PL

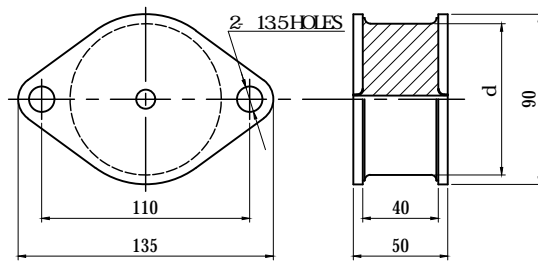


POSITION FOR DAMPING CLAMP WITH 3 HIGH DAMPING RUBBERS



INSTALLATION A DEVICE WITH AN ECCENTRICITY 20mm

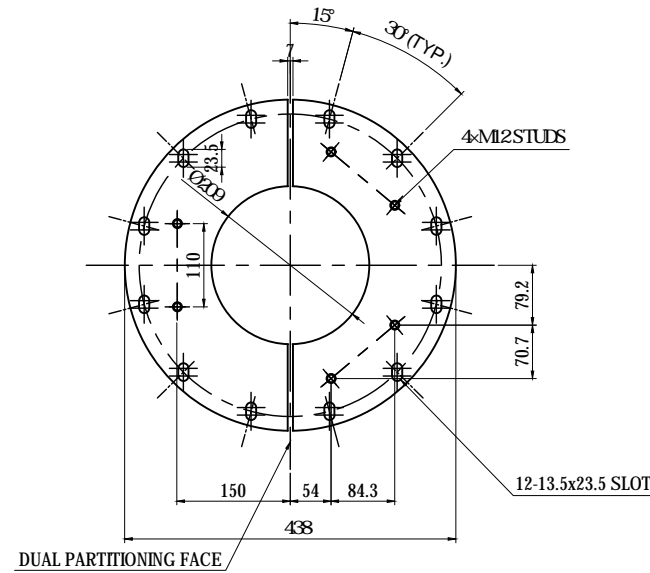
① HIGH DAMPING RUBBER S=1:4



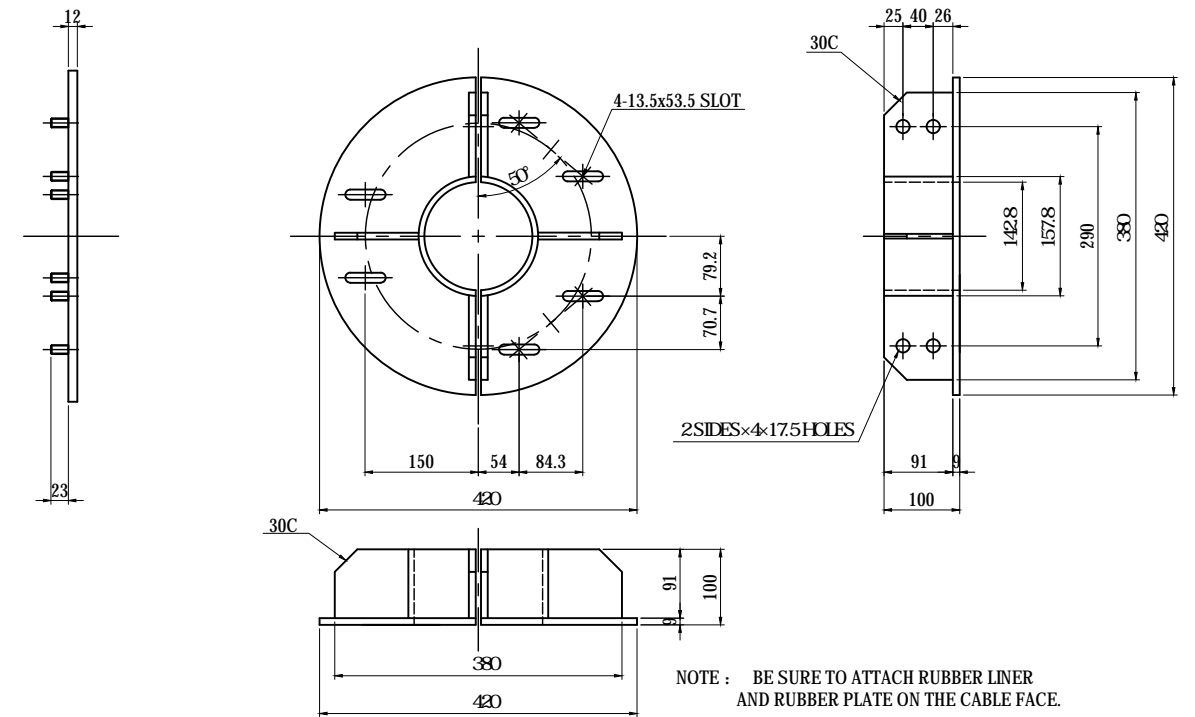
| TYPE     | d  | SPRING CONSTANT | LOSS COEFFICIENT tan |
|----------|----|-----------------|----------------------|
| 80-10-40 | 80 | 280±53 N/mm     | 0.63 OR MORE         |

SPRING CONSTANT・MEASUREMENT CONDITIONS OF LOSS COEFFICIENT : SHEAR DISTORTION RATE ±25%, FREQUENCY 2-HZ, TEMPERATURE 23±5°C

② SUPPORTING PL SUPPORT BY 3 PLATES



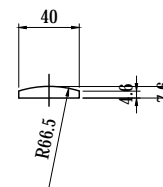
③ DAMPING CLAMP SUPPORT BY 3 PLATES



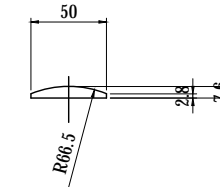
NOTE : BE SURE TO ATTACH RUBBER LINER AND RUBBER PLATE ON THE CABLE FACE.

| NUMBER | THE NAME OF AN ARTICLE | MATERIAL            | REMARKS  | SIZE     | NOS.    |
|--------|------------------------|---------------------|--|----------|---------|
| ①      | HIGH DAMPING RUBBER    | RUBBER              |  | 80-10-40 | 3       |
| ②      | SUPPORTING PL          | WORTH SS400         | HOT DIP GALVANIZING, HDZ55 (PRETREATMENT: BLAST)                               |          | 1       |
| ③      | DAMPING CLAMP          | WORTH SS400 & STKM  | HOT DIP GALVANIZING, HDZ55 (PRETREATMENT: BLAST)                               |          | 1 SET   |
| ④      | BOLT & NUT             | SS400               | HOT DIP GALVANIZING HDZ35, WORTH LOCKNUT & 2 WASHERS                           | M12-50L  | 12 SETS |
| ⑤      | BOLT & NUT             | SS400               | HOT DIP GALVANIZING HDZ35, WORTH LOCKNUT, PLAIN WASHER & SMALL CIRCULAR WASHER | M12-35L  | 4 SETS  |
| ⑥      | NUT                    | SS400               | HOT DIP GALVANIZING HDZ35, WORTH LOCKNUT & SMALL CIRCULAR WASHER               | M12      | 4 SETS  |
| ⑦      | BOLT & NUT             | SS400               | HOT DIP GALVANIZING HDZ35, WORTH LOCKNUT & 2 PLAIN WASHERS                     | M16-50L  | 4 SETS  |
| ⑧      | RUBBER LINER 1         | WEATHERPROOF RUBBER | EPDM(WORTH Hs60), BLACK  |          | 2       |
| ⑨      | RUBBER LINER 2         | WEATHERPROOF RUBBER | EPDM(WORTH Hs60), BLACK  |          | 4       |
| ⑩      | RUBBER PL              | WEATHERPROOF RUBBER | EPDM(WORTH Hs60), BLACK  |          | 2       |

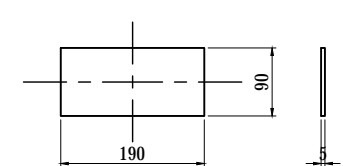
⑧ RUBBER LINER 1 S=1:5



⑨ RUBBER LINER 2 S=1:5



⑩ RUBBER PL



NOTES:

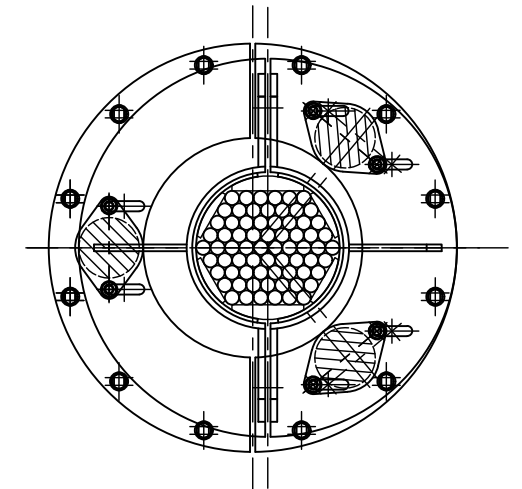
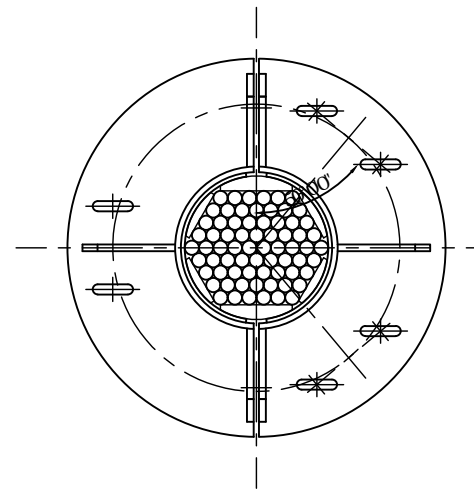
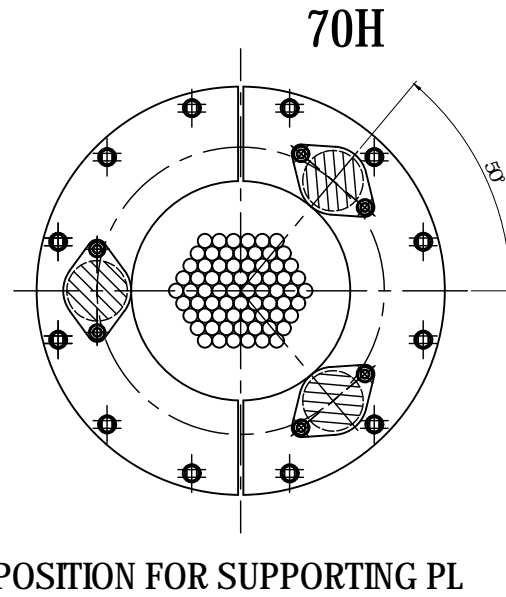
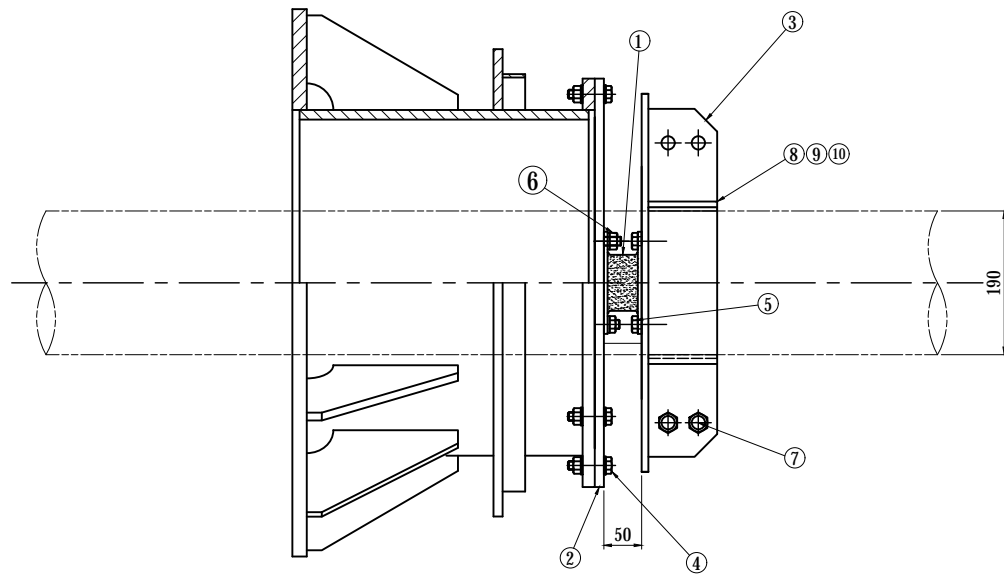
1 - THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.

|   |  |   |  |             |             |       |   |              |            |
|---|--|---|--|-------------|-------------|-------|---|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE<br>VIBRATION CONTROL DEVICE<br>FOR STAY CABLE (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-1534 |

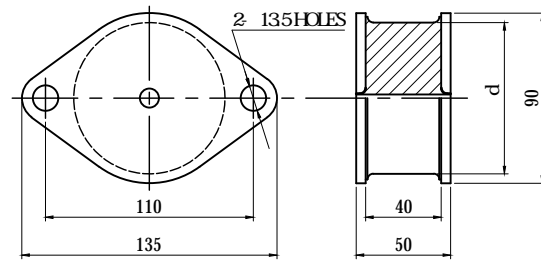
ASSEMBLY DRAWING

VIBRATION CONTROL DEVICE FOR STAY CABLE (2)

S=1:10



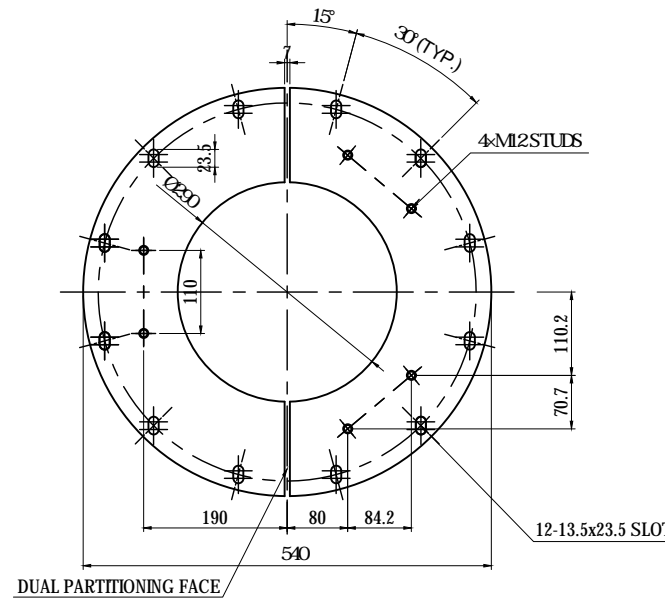
① HIGH DAMPING RUBBER S=1:4



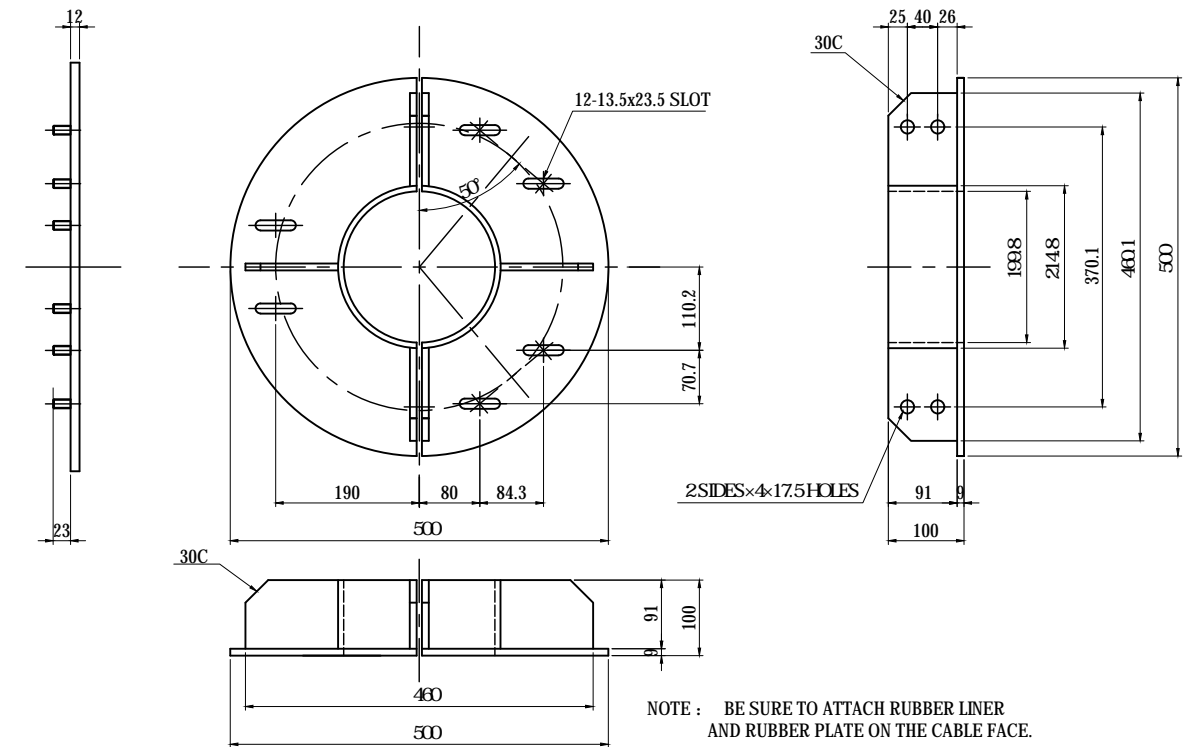
| TYPE     | d  | SPRING CONSTANT | LOSS COEFFICIENT tan |
|----------|----|-----------------|----------------------|
| 80-10-40 | 80 | 280±56 N/mm     | 0.63 OR MORE         |

SPRING CONSTANT・MEASUREMENT CONDITIONS OF LOSS COEFFICIENT : SHEAR DISTORTION RATE ±25.0%, FREQUENCY 4HZ, TEMPERATURE 23±5°C

② SUPPORTING PL SUPPORT BY 3 PLATES



③ DAMPING CLAMP SUPPORT BY 3 PLATES



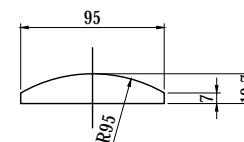
NOTE : BE SURE TO ATTACH RUBBER LINER AND RUBBER PLATE ON THE CABLE FACE.

| NUMBER | THE NAME OF AN ARTICLE | MATERIAL            | REMARKS  | SIZE     | NOS.    |
|--------|------------------------|---------------------|--|----------|---------|
| ①      | HIGH DAMPING RUBBER    | RUBBER              |  | 80-10-40 | 3       |
| ②      | SUPPORTING PL          | WORTH SS400         | HOT DIP GALVANIZING, HDZ55 (PRETREATMENT: BLAST)                               |          | 1       |
| ③      | DAMPING CLAMP          | WORTH SS400 & STKM  | HOT DIP GALVANIZING, HDZ55 (PRETREATMENT: BLAST)                               |          | 1 SET   |
| ④      | BOLT & NUT             | SS400               | HOT DIP GALVANIZING HDZ35, WORTH LOCKNUT & 2 WASHERS                           | M12-50L  | 12 SETS |
| ⑤      | BOLT & NUT             | SS400               | HOT DIP GALVANIZING HDZ35, WORTH LOCKNUT, PLAIN WASHER & SMALL CIRCULAR WASHER | M12-35L  | 4 SETS  |
| ⑥      | NUT                    | SS400               | HOT DIP GALVANIZING HDZ35, WORTH LOCKNUT & SMALL CIRCULAR WASHER               | M12      | 4 SETS  |
| ⑦      | BOLT & NUT             | SS400               | HOT DIP GALVANIZING HDZ35, WORTH LOCKNUT & 2 PLAIN WASHERS                     | M16-50L  | 4 SETS  |
| ⑧      | RUBBER LINER 1         | WEATHERPROOF RUBBER | EPDM(WORTH Hs60), BLACK  |          | 2       |
| ⑨      | RUBBER LINER 2         | WEATHERPROOF RUBBER | EPDM(WORTH Hs60), BLACK  |          | 4       |
| ⑩      | RUBBER PL              | WEATHERPROOF RUBBER | EPDM(WORTH Hs60), BLACK  |          | 2       |

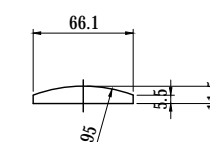
NOTES:

1 - THE CONTRACTOR HAS OPTION TO PROPOSE AN ALTERNATIVE EQUIVALENT TO THE SPECIFIED PRODUCT, WHICH SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.

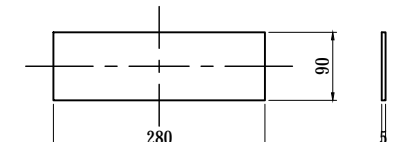
⑧ RUBBER LINER 1 S=1:5



⑨ RUBBER LINER 2 S=1:5


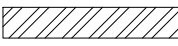


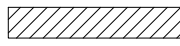
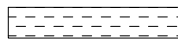
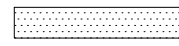
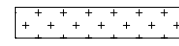


⑩ RUBBER PL



|   |  |   |  |             |             |       |   |                                       |              |
|---|--|---|--|-------------|-------------|-------|---|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JICA<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE  | DRAWING TITLE<br>VIBRATION CONTROL DEVICE<br>FOR STAY CABLE (2) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1535 |              |
|   |  |   |  | 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 |

# DETAIL OF PAINTING SYSTEM (1)

| Description                         | General Surface   |  |   | Joint Connection<br>(Steel Mills and Fabrication Shop: splice plate, filler plate and contact surface of girder)<br>(Construction Site: Splice Plate and Bolts) |  |   | Surface in Contact with Concrete and Pavement   |   |
|-------------------------------------|---|--|---|---|--|---|---|---|
|                                     | I. External   |  | II. Internal  | III. External   |  | IV. Internal  | V. General Surface  | VI. Joint Connection  |
|                                     | (A) Normal  | (B) Particular   |   | (A) Normal  | (B) Particular   |   |   |   |
| <b>Steel Mills</b>                  |   |  |   |   |  |   |   |   |
| 1. Preliminary Surface Treatment    | Blast Cleaned (ISO Sa2.5)   | Blast Cleaned (ISO Sa2.5)  | Blast Cleaned (ISO Sa2.5)   | Blast Cleaned (ISO Sa2.5)   | Blast Cleaned (ISO Sa2.5)  | Blast Cleaned (ISO Sa2.5)   | SSPC-SP10<br>Near - white<br>Blast Cleaning   | SSPC-SP10<br>Near - white<br>Blast Cleaning   |
| 2. Primer                           | Inorganic Zinc-Rich Shop Primer<br>DFT: 15µm(160g/m <sup>2</sup> )                  | Inorganic Zinc-Rich Shop Primer<br>DFT: 15µm(160g/m <sup>2</sup> )                   | Inorganic Zinc-Rich Shop Primer<br>DFT: 15µm(160g/m <sup>2</sup> )                    | Inorganic Zinc-Rich Shop Primer<br>DFT: 15µm(160g/m <sup>2</sup> )  | Inorganic Zinc-Rich Shop Primer<br>DFT: 15µm(160g/m <sup>2</sup> )                     | Inorganic Zinc-Rich Shop Primer<br>DFT: 15µm(160g/m <sup>2</sup> )                    | Inorganic Zinc-Rich Shop Primer<br>DFT: 15µm(200g/m <sup>2</sup> )                                      | Inorganic Zinc-Rich Shop Primer<br>DFT: 15µm(200g/m <sup>2</sup> )                                      |
| <b>Fabrication Shop</b>             |   |  |   |   |  |   |   |   |
| 3. Surface Treatment                | Blast Cleaned (ISO Sa2.5)   | Blast Cleaned (ISO Sa2.5)  | Power Tool Cleaned (ISO Sa3)  | Blast Cleaned (ISO Sa2.5)   | Blast Cleaned (ISO Sa2.5)  | Blast Cleaned (ISO Sa2.5)   | SSPC-SP10<br>Near - white<br>Blast Cleaning   | SSPC-SP10<br>Near - white<br>Blast Cleaning   |
| 4. 1st Under-Coat                   | Inorganic Zinc-Rich Paint<br>DFT: 75µm(600g/m <sup>2</sup> )                        | Inorganic Zinc-Rich Paint<br>DFT: 75µm(600g/m <sup>2</sup> )                         | Formulated Epoxy Resin<br>DFT: 120µm(410g/m <sup>2</sup> )                            | Inorganic Zinc-Rich Paint<br>DFT: 75µm(600g/m <sup>2</sup> )  | Inorganic Zinc-Rich Paint<br>DFT: 75µm(600g/m <sup>2</sup> )                           | Inorganic Zinc-Rich Paint<br>DFT: 75µm(600g/m <sup>2</sup> )                          | High Build Type Inorganic Zinc Rich Paint (Self-Curing Solvent Type)<br>DFT: 30µm(280g/m <sup>2</sup> ) | High Build Type Inorganic Zinc Rich Paint (Self-Curing Solvent Type)<br>DFT: 75µm(700g/m <sup>2</sup> ) |
| 5. 2nd Under-Coat                   | Epoxy Resin<br>DFT: (160g/m <sup>2</sup> )  | Epoxy Resin<br>DFT: (160g/m <sup>2</sup> )   | Formulated Epoxy Resin<br>DFT: 120µm(410g/m <sup>2</sup> )                            | (N.A.)  | (N.A.)   | (N.A.)  | (N.A.)  | (N.A.)  |
| 6. 3rd Under-Coat                   | Epoxy Resin<br>DFT: 120µm(540g/m <sup>2</sup> )                                     | Epoxy Resin<br>DFT: 240µm(1080g/m <sup>2</sup> )                                     | (N.A.)  | (N.A.)  | (N.A.)   | (N.A.)  | (N.A.)  | (N.A.)  |
| 7. 4th Under-Coat                   | Fluorescent Resin<br>DFT: 30µm(170g/m <sup>2</sup> )                                | Fluorescent Resin<br>DFT: 30µm(170g/m <sup>2</sup> )                                 | (N.A.)  | (N.A.)  | (N.A.)   | (N.A.)  | (N.A.)  | (N.A.)  |
| 8. 5th Intermediate Coat            | Fluorescent Resin<br>DFT: 25µm(140g/m <sup>2</sup> )                                | Fluorescent Resin<br>DFT: 25µm(140g/m <sup>2</sup> )                                 | (N.A.)  | (N.A.)  | (N.A.)   | (N.A.)  | (N.A.)  | (N.A.)  |
| 9. Finish Coat                      | (N.A.)  | (N.A.)   | (N.A.)  | (N.A.)  | (N.A.)   | (N.A.)  | (N.A.)  | (N.A.)  |
| <b>Construction Site</b>            |   |  |   |   |  |   |   |   |
| 10. Surface Treatment               | (N.A.)  | (N.A.)   | (N.A.)  | Power Tool Cleaned (ISO St3)  | Power Tool Cleaned (ISO St3)   | Power Tool Cleaned (ISO St3)  | (N.A.)  | (N.A.)  |
| 11. 1st Under-Coat                  | (N.A.)  | (N.A.)   | (N.A.)  | (N.A.)  | (N.A.)   | (N.A.)  | (N.A.)  | (N.A.)  |
| 12. 2nd Under-Coat                  | (N.A.)  | (N.A.)   | (N.A.)  | Formulated Epoxy Resin<br>DFT: 120µm(410g/m <sup>2</sup> )  | Formulated Epoxy Resin<br>DFT: 120µm(410g/m <sup>2</sup> )                             | Formulated Epoxy Resin<br>DFT: 160g/m <sup>2</sup>                                    | (N.A.)  | (N.A.)  |
| 13. 3rd Under-Coat                  | (N.A.)  | (N.A.)   | (N.A.)  | Ultra Thick Epoxy Resin<br>DFT: 300µm(1100g/m <sup>2</sup> )  | Ultra Thick Epoxy Resin<br>DFT: 600µm(2200g/m <sup>2</sup> )                           | Ultra Thick Epoxy Resin<br>DFT: 300µm(1100g/m <sup>2</sup> )                          | (N.A.)  | (N.A.)  |
| 14. 4th Under-Coat                  | (N.A.)  | (N.A.)   | (N.A.)  | Fluorescent Resin<br>DFT: 25µm(170g/m <sup>2</sup> )<br>(140g/m <sup>2</sup> by brush)  | Fluorescent Resin<br>DFT: 25µm(170g/m <sup>2</sup> )<br>(140g/m <sup>2</sup> by brush) | (N.A.)  | (N.A.)  | (N.A.)  |
| 15. 5th Under-Coat                  | (N.A.)  | (N.A.)   | (N.A.)  | Fluorescent Resin<br>DFT: 25µm(140g/m <sup>2</sup> )<br>(120g/m <sup>2</sup> by brush)  | Fluorescent Resin<br>DFT: 25µm(140g/m <sup>2</sup> )<br>(120g/m <sup>2</sup> by brush) | (N.A.)  | (N.A.)  | (N.A.)  |
| 16. Intermediate Coat               | (N.A.)  | (N.A.)   | (N.A.)  | (N.A.)  | (N.A.)   | (N.A.)  | (N.A.)  | (N.A.)  |
| 17. Finish Coat                     | (N.A.)  | (N.A.)   | (N.A.)  | (N.A.)  | (N.A.)   | (N.A.)  | (N.A.)  | (N.A.)  |
| Explanatory Remarks<br>(Line/Hatch) | -----   | ○ ○ ○  | -----   | -----   | ~~~~~  | //////  | -----   | +++++   |
|                                     |  |  |  |    |   |  |                    |                    |

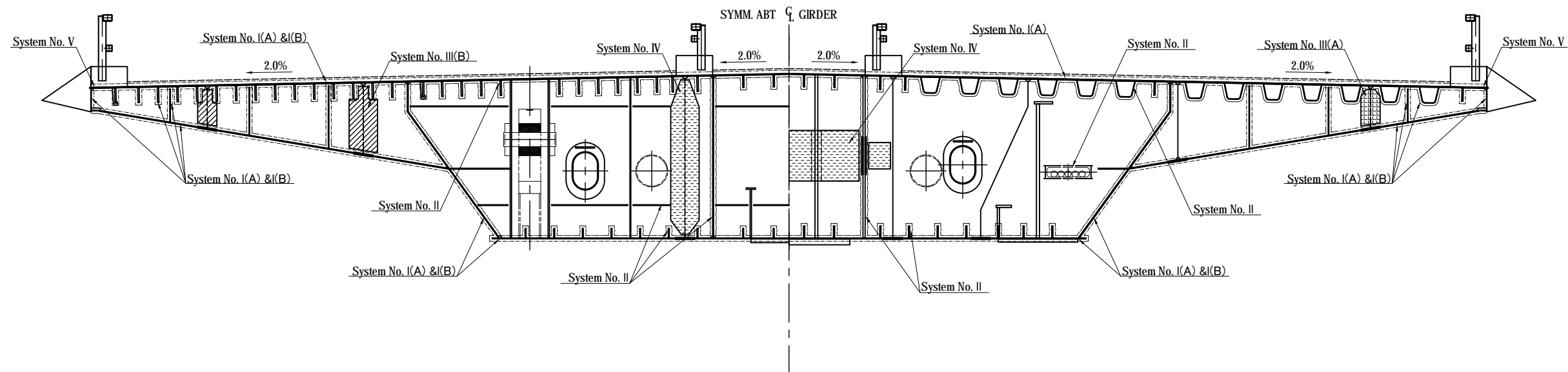
# DETAIL OF PAINTING SYSTEM (2)

S=1:80

## TYPICAL SECTION

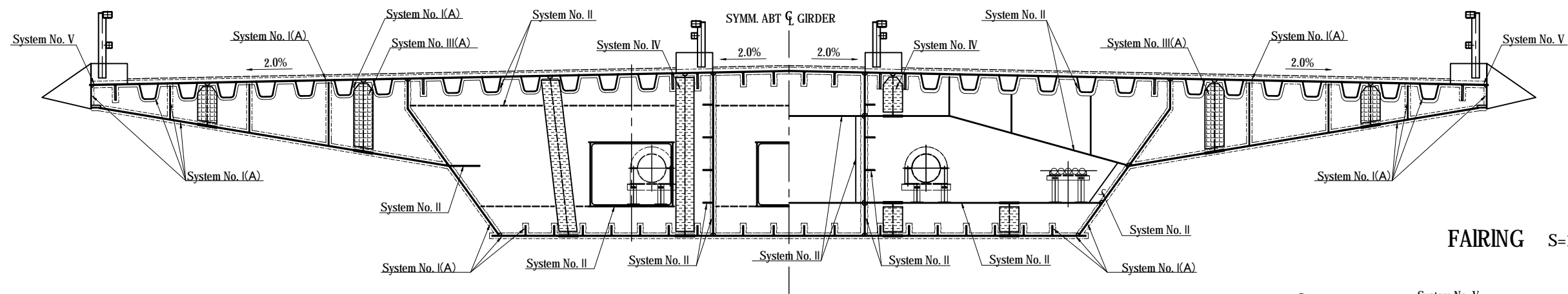
### END CROSS BEAM SECTION

### MIDDLE CROSS BEAM SECTION

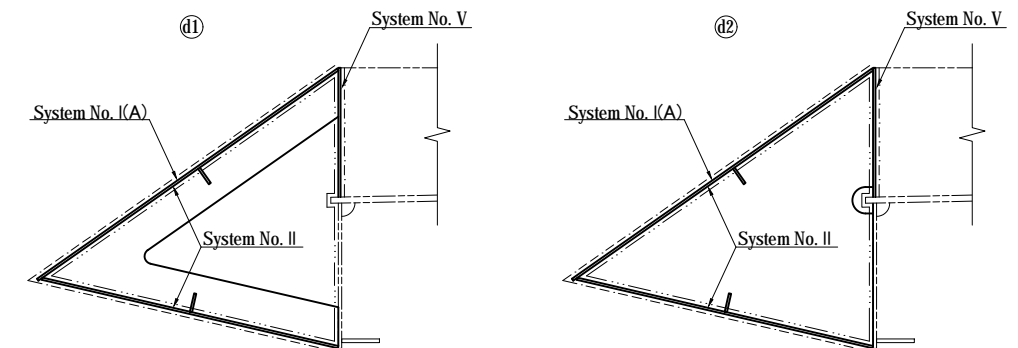


### DIAPHRAGM SECTION

### CROSSFRAME SECTION



### FAIRING S=1:20



#### NOTES:

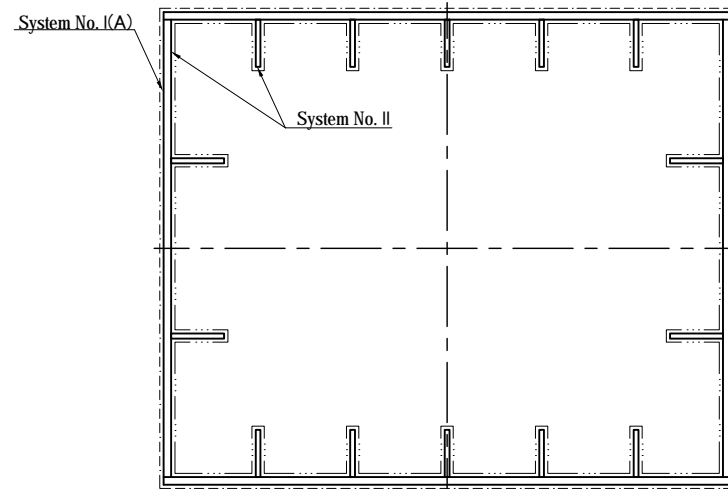
1 - THE CONTRACTOR SHALL MARK PAINTING RECORD TABLE AT GIRDER AND TOWER

|   |  |   |  |             |             |      |  |                                       |              |
|---|--|---|--|-------------|-------------|------|--|---------------------------------------|--------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>DETAIL OF PAINTING SYSTEM (2) | PACKAGE<br>1<br>DWG No.<br>P1-CS-1602 |              |
|   |  |   |  | PREPARED BY | T.TOMODA    |      |  |                                       | 27. Nov.2017 |
|   |  |   |  | CHECKED BY  | T. HAYAKAWA |      |  |                                       | 28. Nov.2017 |
|   |  |   |  | APPROVED BY | Y. SANO     |      |  |                                       | 29. Nov.2017 |

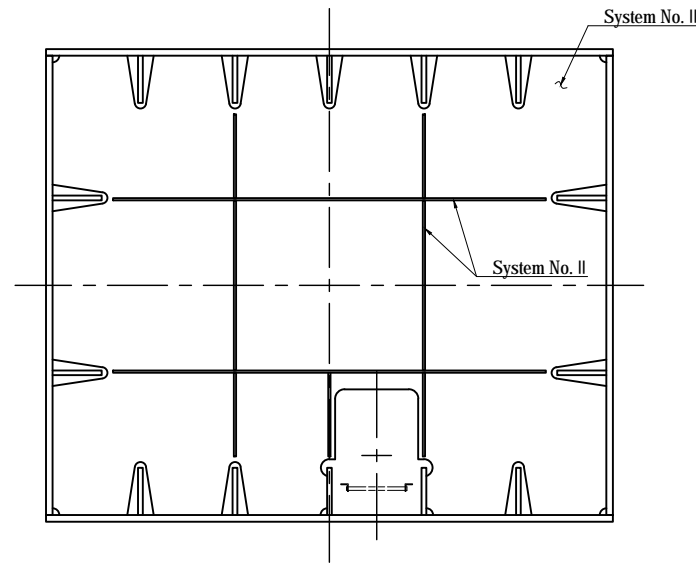
# DETAIL OF PAINTING SYSTEM (3)

S=1:40

## TYPICAL SECTION

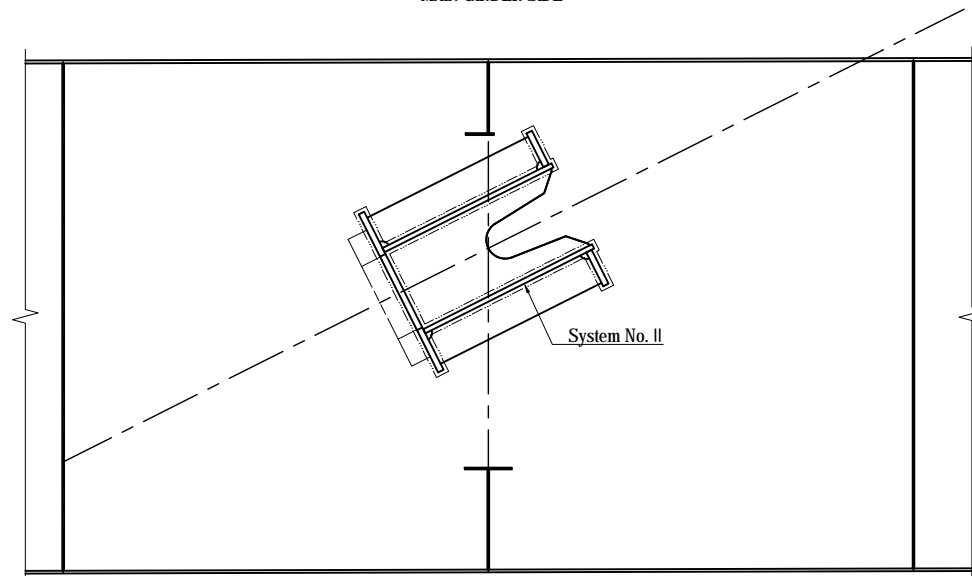


## TYPICAL DIAPHRAGM SECTION

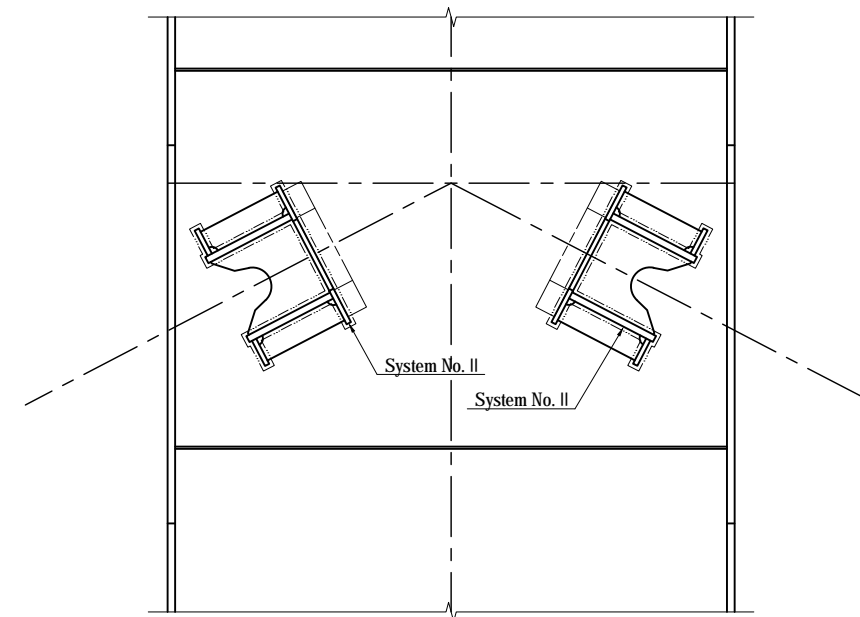


## STAY CABLE ANCHORAGE

### MAIN GIRDER SIDE



### MAIN TOWER SIDE



### NOTES:

1 - THE CONTRACTOR SHALL MARK PAINTING RECORD TABLE AT GIRDER AND TOWER

|   |  |   |  |             |             |      |  |              |            |
|---|--|---|--|-------------|-------------|------|--|--------------|------------|
| PROJECT NAME<br>DETAILED DESIGN ON<br>BAGO RIVER BRIDGE<br>CONSTRUCTION PROJECT | FINANCED BY<br>JAPAN INTERNATIONAL<br>COOPERATION AGENCY | COUNTERPART<br>REPUBLIC OF THE UNION OF MYANMAR<br>MINISTRY OF CONSTRUCTION<br>DEPARTMENT OF BRIDGE | JICA STUDY TEAM<br>NIPPON KOEI CO., LTD.<br>ORIENTAL CONSULTANTS GLOBAL CO., LTD.<br>METROPOLITAN EXPRESSWAY COMPANY LIMITED<br>CHODAI CO., LTD.<br>NIPPON ENGINEERING CONSULTANTS CO., LTD. | NAME        | SIGNATURE   | DATE | DRAWING TITLE<br>DETAIL OF PAINTING SYSTEM (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-1603 |