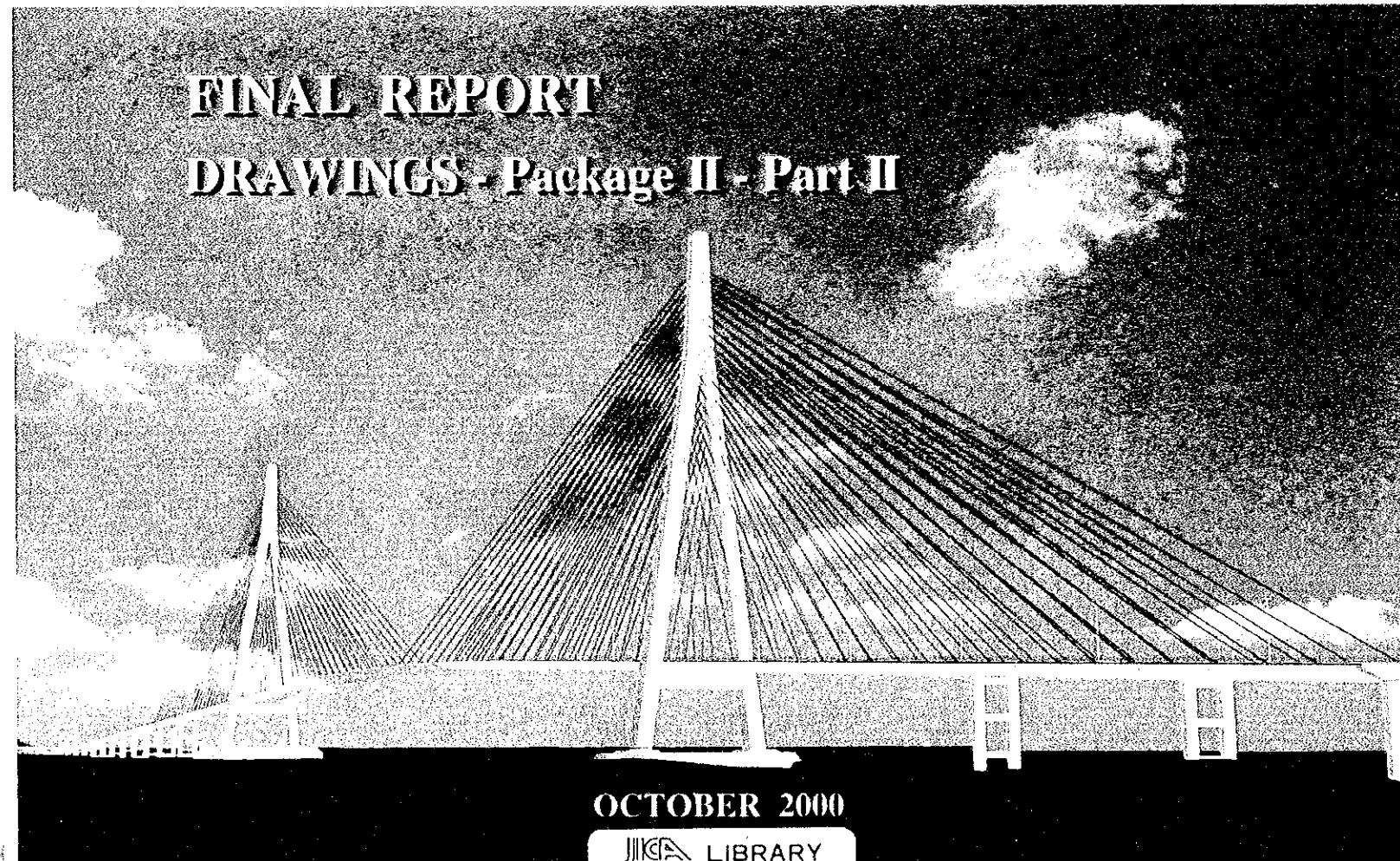


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
MINISTRY OF TRANSPORT
SOCIALIST REPUBLIC OF VIET NAM

**THE DETAILED DESIGN
ON
THE CAN THO BRIDGE CONSTRUCTION
IN
SOCIALIST REPUBLIC OF VIET NAM**



**FINAL REPORT
DRAWINGS - Package II - Part II**

OCTOBER 2000

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JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
MINISTRY OF TRANSPORT
SOCIALIST REPUBLIC OF VIET NAM

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FINAL REPORT

DRAWINGS - Package II - Part II

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1161224 [9]

THE DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT
IN SOCIALIST REPUBLIC OF VIET NAM

CAN THO BRIDGE CONSTRUCTION PROJECT

PACKAGE2

SUBSTREAM BRIDGE

OCTOBER - 2000

NIPPON KOEI Co., Ltd.

in association with

TRANSPORT ENGINEERING DESIGN INC. SOUTH



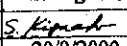
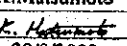
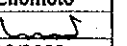
I.GENERAL

DRAWING LIST

| DRAWING No. | DRAWING TITLE |
|-------------------------------------|-------------------------------------|
| GENERAL | |
| P2/GE/0010 | DRAWING LIST |
| P2/GE/0020 | LOCATION MAP |
| P2/GE/0030 | STRUCTURAL NOTE |
| P2/GE/0040 | GENERAL VIEW (1) |
| P2/GE/0050 | GENERAL VIEW (2) |
| P2/GE/0060 | GENERAL COORDINATE OF BRIDGE |
| SUPERSTRUCTURE | |
| PIER36~PIER41(PC BOX GIRDER) | |
| P2/AS/0010 | GIRDER SEGMENT ARRANGEMENT (1) |
| P2/AS/0020 | GIRDER SEGMENT ARRANGEMENT (2) |
| P2/AS/0030 | GIRDER SEGMENT ARRANGEMENT (3) |
| P2/AS/0040 | PC TENDON ARRANGEMENT OF GIRDER (1) |
| P2/AS/0050 | PC TENDON ARRANGEMENT OF GIRDER (2) |
| P2/AS/0060 | PC TENDON ARRANGEMENT OF GIRDER (3) |
| P2/AS/0070 | PC TENDON ARRANGEMENT OF GIRDER (4) |
| P2/AS/0080 | PC TENDON ARRANGEMENT OF GIRDER (5) |
| P2/AS/0090 | PC TENDON ARRANGEMENT OF GIRDER (6) |
| P2/AS/0100 | PC TENDON ARRANGEMENT OF GIRDER (7) |
| P2/AS/0110 | PC TENDON ARRANGEMENT OF DIAPHRAGM |
| P2/AS/0120 | DETAIL OF ANCHORAGE |
| P2/AS/0130 | BAR ARRANGEMENT OF GIRDER (1) |
| P2/AS/0140 | BAR ARRANGEMENT OF GIRDER (2) |
| P2/AS/0150 | BAR ARRANGEMENT OF GIRDER (3) |
| P2/AS/0160 | BAR ARRANGEMENT OF GIRDER (4) |
| P2/AS/0170 | BAR ARRANGEMENT OF GIRDER (5) |
| P2/AS/0180 | BAR ARRANGEMENT OF GIRDER (6) |
| P2/AS/0190 | BAR ARRANGEMENT OF GIRDER (7) |
| P2/AS/0200 | BAR ARRANGEMENT OF GIRDER (8) |
| P2/AS/0210 | BAR ARRANGEMENT OF GIRDER (9) |
| P2/AS/0220 | BAR ARRANGEMENT OF GIRDER (10) |
| P2/AS/0230 | BAR ARRANGEMENT OF GIRDER (11) |
| P2/AS/0240 | BAR ARRANGEMENT OF GIRDER (12) |
| P2/AS/0250 | BAR ARRANGEMENT OF GIRDER (13) |
| P2/AS/0260 | BAR ARRANGEMENT OF GIRDER (14) |
| P2/AS/0270 | BAR ARRANGEMENT OF GIRDER (15) |
| P2/AS/0280 | BAR ARRANGEMENT OF GIRDER (16) |
| P2/AS/0290 | BAR ARRANGEMENT OF GIRDER (17) |
| P2/AS/0300 | BAR ARRANGEMENT OF GIRDER (18) |
| P2/AS/0310 | BAR ARRANGEMENT OF GIRDER (19) |
| P2/AS/0320 | BAR ARRANGEMENT OF GIRDER (20) |
| P2/AS/0330 | BAR ARRANGEMENT OF GIRDER (21) |
| P2/AS/0340 | BAR ARRANGEMENT OF GIRDER (22) |
| P2/AS/0350 | BAR ARRANGEMENT OF GIRDER (23) |
| P2/AS/0360 | BAR ARRANGEMENT OF GIRDER (24) |

| DRAWING No. | DRAWING TITLE |
|--------------------------|---|
| P2/AS/0370 | BAR ARRANGEMENT OF GIRDER (25) |
| P2/AS/0380 | BAR ARRANGEMENT OF GIRDER (26) |
| P2/AS/0390 | BAR ARRANGEMENT OF GIRDER (27) |
| P2/AS/0400 | BAR ARRANGEMENT OF GIRDER (28) |
| P2/AS/0410 | BAR ARRANGEMENT OF GIRDER (29) |
| P2/AS/0420 | BAR ARRANGEMENT OF GIRDER (30) |
| P2/AS/0430 | BAR ARRANGEMENT OF GIRDER (31) |
| P2/AS/0440 | BAR ARRANGEMENT OF GIRDER (32) |
| P2/AS/0450 | BAR ARRANGEMENT OF GIRDER (33) |
| P2/AS/0460 | BAR ARRANGEMENT OF GIRDER (34) |
| P2/AS/0470 | BAR ARRANGEMENT OF GIRDER (35) |
| P2/AS/0480 | BAR ARRANGEMENT OF DIAPHRAGM (1) |
| P2/AS/0490 | BAR ARRANGEMENT OF DIAPHRAGM (2) |
| P2/AS/0500 | BAR ARRANGEMENT OF DIAPHRAGM (3) |
| P2/AS/0510 | BAR ARRANGEMENT OF DIAPHRAGM (4) |
| P2/AS/0520 | BAR ARRANGEMENT OF ANCHORAGE |
| SUBSTRUCTURE | |
| PIER No.36&41 | |
| P2/AS/0530 | GENERAL VIEW OF PIER No. 36 & 41 |
| P2/AS/0540 | REINFORCEMENT ARRANGEMENT OF P36&41 (SHEET1) |
| P2/AS/0550 | REINFORCEMENT ARRANGEMENT OF P36&41 (SHEET2) |
| P2/AS/0560 | REINFORCEMENT ARRANGEMENT OF P36&41 (SHEET3) |
| P2/AS/0570 | REINFORCEMENT ARRANGEMENT OF P36&41 (SHEET4) |
| P2/AS/0580 | REINFORCEMENT ARRANGEMENT OF P36&41 (SHEET5) |
| P2/AS/0590 | BORDE CAST - IN - SITU PILE D=1500mm, L=72.0m |
| PIER No.37&40 | |
| P2/AS/0600 | GENERAL VIEW OF PIER No. 37 & 40 |
| P2/AS/0610 | REINFORCEMENT ARRANGEMENT OF P37&40 (SHEET1) |
| P2/AS/0620 | REINFORCEMENT ARRANGEMENT OF P37&40 (SHEET2) |
| P2/AS/0630 | REINFORCEMENT ARRANGEMENT OF P37&40 (SHEET3) |
| P2/AS/0640 | REINFORCEMENT ARRANGEMENT OF P37&40 (SHEET4) |
| P2/AS/0650 | BORDE CAST - IN - SITU PILE D=2000mm, L=80.0m |
| PIER No.38&39 | |
| P2/AS/0660 | GENERAL VIEW OF PIER No. 38 & 39 |
| P2/AS/0670 | REINFORCEMENT ARRANGEMENT OF P38&39 (SHEET1) |
| P2/AS/0680 | REINFORCEMENT ARRANGEMENT OF P38&39 (SHEET2) |
| P2/AS/0690 | REINFORCEMENT ARRANGEMENT OF P38&39 (SHEET3) |
| P2/AS/0700 | DETAILED REINFORCEMENT BARS OF P38&39 |
| P2/AS/0710 | BORDE CAST - IN - SITU PILE D=2000mm, L=76.0m |

| DRAWING No. | DRAWING TITLE |
|----------------------|--|
| MISCELLANEOUS | |
| P2/MC/0010 | DETAILS OF BEARING (1) |
| P2/MC/0020 | DETAILS OF BEARING (2) |
| P2/MC/0030 | DETAIL OF EXPANSION JOINT |
| P2/MC/0040 | DETAIL OF MANHOLE COVER |
| P2/MC/0050 | BAR ARRANGEMENT OF BARRIER (1) |
| P2/MC/0060 | BAR ARRANGEMENT OF BARRIER (2) |
| P2/MC/0070 | BAR ARRANGEMENT OF CENTRAL REVERSE |
| P2/MC/0080 | LAYOUT OF DRAINAGE |
| P2/MC/0090 | DETAIL OF DRAINAGE FACILITY |
| P2/MC/0100 | TEMPORARY NAVIGATION MARKER BUOYS SYSTEM |
| P2/MC/0110 | PERMANENT NAVIGATIONAL BRIDGE LIGHT AND MARKER BUOYS SYSTEM |
| P2/MC/0120 | ROAD LIGHTING |
| P2/MC/0130 | ROAD LIGHTING LAYOUT (1) |
| P2/MC/0140 | ROAD LIGHTING LAYOUT (2) |
| P2/MC/0150 | ROAD LIGHTING LAYOUT (3) |
| P2/MC/0160 | ROAD LIGHTING LAYOUT (4) |
| P2/MC/0170 | POWER RECEIVING SYSTEM |
| P2/MC/0180 | DETAIL OF POWER RECEIVING SYSTEM |
| P2/MC/0190 | CONSTRUCTION SEQUENCE (1) (REFERENCE) |
| P2/MC/0200 | CONSTRUCTION SEQUENCE (2) (REFERENCE) |
| P2/MC/0210 | TEMPORARY FIXATION(REFERENCE) |

| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|---|---|--|---|---|---|---|------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT |  JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT |  NIPPON KOEI CO.,LTD. | NAME: S. Kiguchi SIGNATURE:  DATE: 20/9/2000 | NAME: K. Matsumoto SIGNATURE:  DATE: 29/9/2000 | NAME: K. Enomoto SIGNATURE:  DATE: 5/10/2000 | SUBSTREAM BRIDGE GENERAL DRAWING LIST | P2/GE/0010 |

STRUCTURAL NOTES

1. GENERAL

- 1.1. UNLESS OTHERWISE NOTED THESE NOTES ARE APPLIED TO ALL DRAWINGS.
- 1.2. THE SCALE INDICATED IN DRAWINGS IS FOR 'A3' SIZE.
- 1.3. ALL CHAINAGES, COORDINATES, ELEVATIONS ARE IN METRES. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED.
- 1.4. THE ELEVATION SYSTEM IS REFERRED TO THE MEAN SEA DATUM ELEVATION AT HONDAU - DO SON. COORDINATE REFER TO THE NATIONAL GRID SYSTEM.

2. DESIGN CRITERIA & LOADS

- 2.1. DESIGN STANDARDS:
 - AASHTO 1998 - LRFD BRIDGE DESIGN SPECIFICATIONS
 - AASHTO GUIDE SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF SEGMENTAL CONCRETE BRIDGES
 - JAPANESE HIGHWAY AND BRIDGE STANDARDS 1996
 - VIETNAMESE HIGHWAY BRIDGES STANDARDS 1979
- 2.2. DESIGN LOADS:
 - B_LOADING IN ACCORDANCE WITH JAPANESE CODE
 - BASIC WIND VELOCITY : 160 KM/H - AASHTO LRFD 98
 - LATERAL SEISMIC RESPONSE COEFFICIENT : 0.12
 - UNIFORM TEMPERATURE : $\pm 15^{\circ}\text{C}$
 - TEMPERATURE DIFFERENTIAL : 5°C

3. CONCRETE

- 3.1. UNLESS OTHERWISE INDECATED CONCRETE SHALL BE OF THE FOLLOWING GRADES BASED ON 28 DAY CYLINDER STRENGTH f_c :

| CONCRETE CLASS | STRENGTH f_c MPa | KIND OF STRUCTURE IN USE |
|----------------|--------------------|--|
| B | 40 | PC BOX GIRDER, I-GIRDER |
| C | 35 | HOLLOW SLAB |
| D | 30 | IN-SITU DECK SLAB, BORED PILE |
| E | 24 | PIER, ABUTMENT, PILE CAP, RETAINING WALL, PARAPET, BARRIER, KERB |
| G | 15 | LEAN CONCRETE |

- 3.2. WHEREVER FORMS ARE NOT USED REINFORCED CONCRETE SHALL BE PLACED AGAINST 100mm MINIMUM THICKNESS LEAN CONCRETE.
- 3.3. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 20x20mm UNLESS OTHERWISE NOTED.
- 3.4. ALL CONSTRUCTION JOINTS ARE TO BE LOCATED AS SHOWN ON THE DRAWINGS OR AS ENGINEER'S APPROVAL.

4. REINFORCEMENT

- 4.1. REINFORCEMENT SHALL BE DEFORMED, EXCEPT THAT PLAIN BARS OR PLAIN WIRE MAY BE USED FOR SPIRALS, HOOPS, AND WIRE FABRIC.
- 4.2. REINFORCEMENT SHALL BE SD390 OR EQUIVALENT. PLAIN ROUND BAR WITH $f_y(\text{min})$ 250 MPa AND HIGH YIELD DEFORMED BARS WITH YIELD STRENGTH NOT LESS THAN $f_y(\text{min})$ 390 MPa SHALL BE USED.
- 4.3. REINFORCEMENT IS NOTED ON THE DRAWINGS AS FOLLOWS:
- 4.4. ALL REINFORCEMENTS ARE SHOWN AS _____
- 4.5. SPLICES IN ADJACENT BARS SHALL BE STAGGERED EXCEPT WHERE NOTED ON THE DRAWINGS. SPLICES OTHER THAN THOSE SHOWN ON THE DRAWINGS MAY ONLY BE MADE WITH THE ENGINEER'S APPROVAL.
- 4.6. MINIMUM SPlice LENGTH SHALL BE IN ACCORDANCE WITH AASHTO LRFD 1998.
- 4.7. STANDARD HOOKS AND MINIMUM BEND DIAMETER SHALL BE IN ACCORDANCE WITH AASHTO LRFD 1998.

4. REINFORCEMENT (CONTINUED)

- 4.8. REINFORCEMENTS INDECATED AS RANDOM LENGTH MAY BE LAP SPLICED AS NECESSARY SUBJECT TO THE FOLLOWING CONDITIONS:
 - A) LAP SPLICES IN ADJACENT BARS SHALL BE STAGGERED
 - B) MINIMUM LAP LENGTHS SHALL BE IN ACCORDANCE WITH AASHTO LRFD 1998, EXCEPT BORED PILE SHALL BE 40 BAR DIAMETERS
 - C) NOT MORE THAN ONE BAR PER LINE IS TO BE SHORTER THAN 12 METRES FOR ANY DIAMETER
- 4.9. UNLESS OTHERWISE INDECATED ON THE DRAWINGS, THE MINIMUM COVER TO ANY REINFORCEMENT SHALL BE AS FOLLOWS:
 - 75mm BORED PILE, RETAINING WALL & ABUTMENT
 - 50mm PILE CAP, DECK SLAB, PIER & ABUTMENT, PARAPET, KERB, APPROACH SLAB, etc...
 - TOLERANCE ON COVER IS $\pm 5\text{MM}$

5. PRESTRESSING

- 5.1. NOMINAL DIAMETER, YIELD AND TENSILE STRENGTH OF PRESTRESSED TENDON ARE SPECIFIED AS FOLLOWS:

| UTILIZATION | NOMINAL DIAMETER (mm) | TENSILE STRENGTH (MPa) | YIELD STRENGTH (MPa) | JACKING FORCE (kN) |
|----------------|-----------------------|------------------------|----------------------|--------------------|
| INTERNAL CABLE | 12S12.7 | 1860 | 1570 | 1650 |
| EXTERNAL CABLE | 19S15.2 | 1860 | 1570 | 3670 |
| TOP SLAB CABLE | 1S21.8 | 1810 | 1570 | 395 |

- 5.2. PRESTRESSED TENDONS SHALL BE FORMED FROM THE STRANDS OF 12.7mm OR 15.2mm DIAMETER MADE BY 7 LOW RELAXATION WIRES GRADE 270 CORRESPONDING WITH ASTM A416M. THE ACTUAL TENDON SIZES AND INITIAL PRESTRESSED FORCE ARE GIVEN ON THE DETAIL DRAWINGS.
- 5.3. PRESTRESSED SYSTEMS TO BE ADOPTED SHALL BE IN ACCORDANCE WITH THE ENGINEER'S APPROVAL.
- 5.4. DUCTS FOR INTERNAL TENDONS SHALL BE SEMI-RIGID GALVANISED SHEATHING UNLESS OTHERWISE NOTED AND SHALL BE RIGIDLY SUPPORTED AT NOT MORE THAN 750mm FROM CENTRES.
- 5.5. THE METHOD TO FIX THE DUCTS AND THE METHOD OF JOINTING AND SEALING OF DUCTS AT CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH THE ENGINEER'S APPROVAL.
- 5.6. TENDON PROFILES ARE SPECIFIED TO THE CENTER OF SHEATHING. THE TENDON ARE TO BE PLACED TO SMOOTH PROFILES PASSING THROUGH THE SPECIFIED POINTS.
- 5.7. EACH TENDON SHALL BE KEPT STRAIGHT FOR A MINIMUM LENGTH OF 1000mm FROM ANCHORAGE FACES.
- 5.8. GROUTING POINTS SHALL BE PROVIDED AT ALL CROWN POINTS, SAG POINTS, ANCHORAGES AND DEVIATORS.

6. WATERPROOF

- 6.1. ALL REINFORCED CONCRETE SURFACES IN CONTACT WITH BACKFILL SHALL BE COATED WITH TWO COATS OF BITUMINOUS MEMBRANE.
- 6.2. THE BRIDGE DECK SHALL BE WATERPROOFED WITH APPROVED PROPRIETARY WATERPROOFING SYSTEM IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

7. SUPERSTRUCTURE

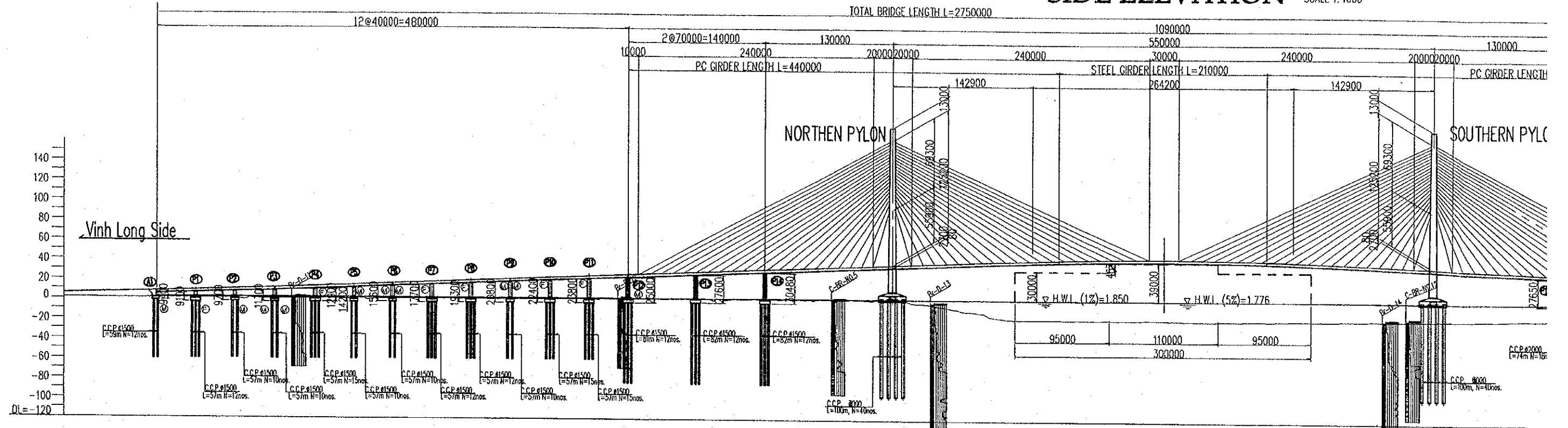
- 7.1. SUPERSTRUCTURE IS DESIGNED ON THE BASIS OF CONSTRUCTION SEQUENCE DETAILED ON THE DRAWINGS. ANY CHANGES TO THE CONSTRUCTION SEQUENCE WILL REQUIRE A RE-DESIGN OF THE BRIDGE.
- 7.2. THE SUPERSTRUCTURE DESIGN IS BASED ON THE USE OF BOTH INTERNAL & EXTERNAL PRESTRESSING WITH THE FOLLOWING PARAMETERS:

| | |
|---|-------|
| COEFFICIENT OF FRICTION PER RADIAN | 0.25 |
| WOBBLE FACTOR $K - 1/m$ (FOR INTERNAL ONLY) | 0.004 |
| PULL-IN | 5 mm |
| RELATIVE HUMIDITY | 85% |

- 7.3. ANCHOR BAR SHALL BE CONFORMING TO THE REQUIREMENTS OF SS400 OF JS G3101.

| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|---|---|----------------------|---|---|---|--|------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | NIPPON KOBI CO.,LTD. | NAME: S. Kiguchi SIGNATURE: DATE: 20/9/2000 | NAME: K. Matsumoto SIGNATURE: DATE: 29/9/2000 | NAME: K. Enomoto SIGNATURE: DATE: 5/10/2000 | SUB STREAM BRIDGE GENERAL STRUCTURAL NOTES | P2/GE/0030 |

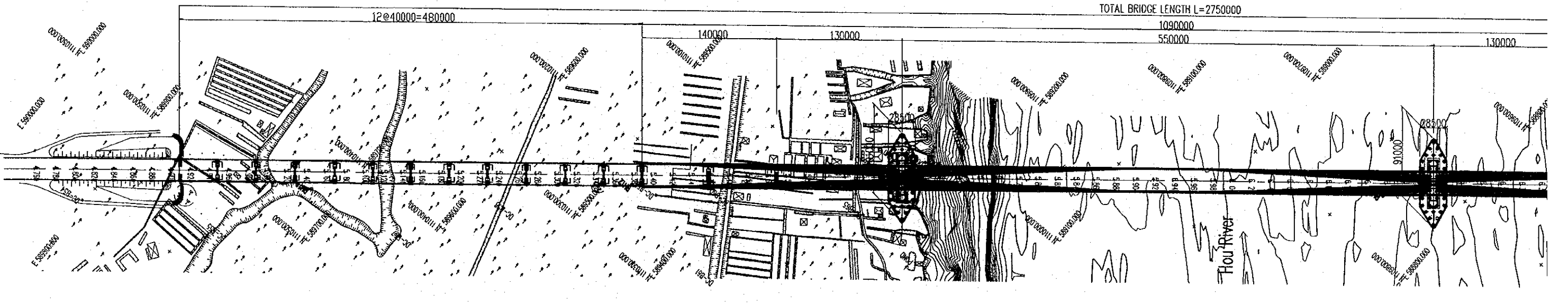
SIDE ELEVATION SCALE 1:4000



| GRADE | 12@40000=480000 | | | | | | | | | | | | | | | | | | | | 2@70000=140000 | | | | | | | | | | | | | | | | | | | | 1090000 | | | | | | | | | | | | | | | | | | | | 130000 | | | | | | | | | | | | | | | | | | | |
|-----------------|-----------------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|--|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| DESIGN LEVELS | 7.54 | 7.58 | 9.10 | 10.27 | 10.57 | 11.84 | 13.00 | 14.20 | 14.60 | 16.20 | 21.00 | 22.20 | 22.60 | 24.20 | 25.80 | 26.20 | 28.60 | 32.20 | 31.40 | 34.20 | 36.60 | 38.20 | 41.58 | 42.72 | 44.02 | 44.24 | 44.40 | 44.80 | 44.82 | 43.87 | 41.38 | 41.00 | 37.00 | 36.60 | 33.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EXISTING HEIGHT | 1.09 | 1.09 | 0.81 | 0.95 | 0.33 | 0.83 | 0.74 | 0.63 | 0.62 | 0.73 | 0.92 | 0.96 | 0.94 | 1.12 | 1.14 | 1.11 | 1.26 | 1.38 | 1.14 | 1.47 | 1.52 | -2.59 | -17.45 | -17.34 | -17.59 | -17.82 | -17.55 | -18.22 | -17.57 | -17.37 | -17.56 | -17.37 | -16.49 | -16.35 | -14.85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DISTANCE | 44900.0 | 84900.0 | 124900.0 | 164900.0 | 204900.0 | 244900.0 | 284900.0 | 324900.0 | 364900.0 | 404900.0 | 444900.0 | 484900.0 | 524900.0 | 564900.0 | 604900.0 | 644900.0 | 684900.0 | 724900.0 | 764900.0 | 804900.0 | 844900.0 | 884900.0 | 924900.0 | 964900.0 | 1004900.0 | 1044900.0 | 1084900.0 | 1124900.0 | 1164900.0 | 1204900.0 | 1244900.0 | 1284900.0 | 1324900.0 | 1364900.0 | 1404900.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHAINAGE | 44900.0 | 84900.0 | 124900.0 | 164900.0 | 204900.0 | 244900.0 | 284900.0 | 324900.0 | 364900.0 | 404900.0 | 444900.0 | 484900.0 | 524900.0 | 564900.0 | 604900.0 | 644900.0 | 684900.0 | 724900.0 | 764900.0 | 804900.0 | 844900.0 | 884900.0 | 924900.0 | 964900.0 | 1004900.0 | 1044900.0 | 1084900.0 | 1124900.0 | 1164900.0 | 1204900.0 | 1244900.0 | 1284900.0 | 1324900.0 | 1364900.0 | 1404900.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CURVE ELEMENT | L=263m R=5500m | | | | | | | | | | | | | | | | | | | | L=400m R=4000m | | | | | | | | | | | | | | | | | | | | L=320m R=4000m | | | | | | | | | | | | | | | | | | | | L=320m R=4000m | | | | | | | | | | | | | | | | | | | |

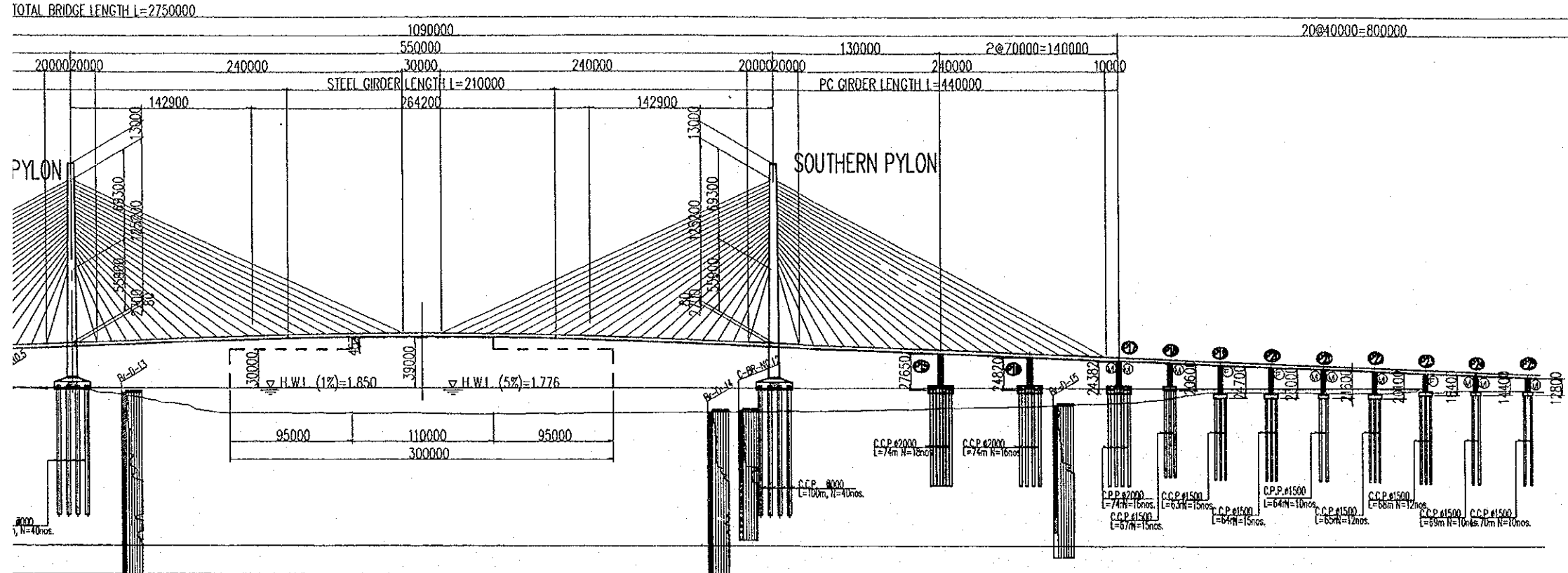
Vinh Long Side

PLAN SCALE 1:2000



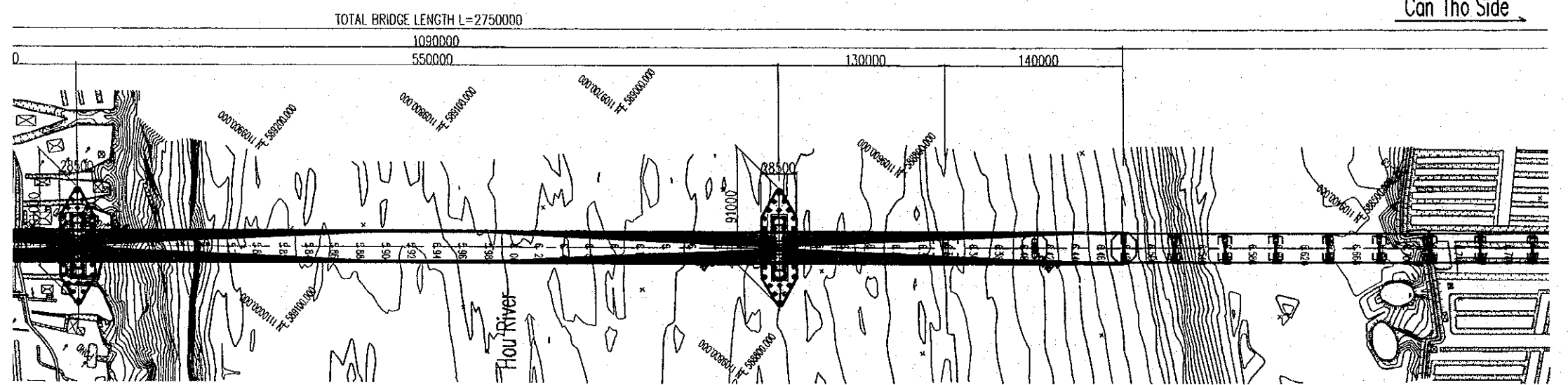
GENERAL VIEW (1/2)

SIDE ELEVATION SCALE 1:4000

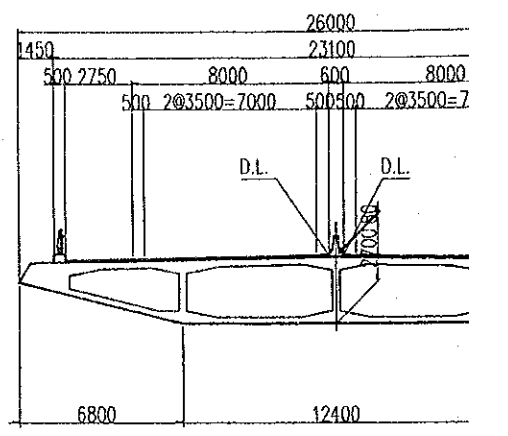


| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|--|
| Stationing | 5+700.0 | 5+750.0 | 5+800.0 | 5+850.0 | 5+900.0 | 5+950.0 | 5+980.0 | 6+000.0 | 6+050.0 | 6+100.0 | 6+150.0 | 6+200.0 | 6+250.0 | 6+300.0 | 6+350.0 | 6+400.0 | 6+450.0 | 6+500.0 | 6+550.0 | 6+600.0 | 6+650.0 | 6+700.0 | 6+750.0 | 6+800.0 | 6+850.0 | 6+900.0 | 6+950.0 | 7+000.0 | | |
| Vertical Curve Data | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Height | 36.600 | 38.200 | 41.588 | 42.122 | 44.022 | 44.247 | 44.400 | 44.022 | 43.872 | 41.588 | 41.900 | 37.000 | 36.600 | 33.000 | 31.400 | 28.000 | 26.800 | 23.800 | 25.000 | 24.200 | 22.900 | 21.900 | 19.400 | 17.800 | 17.000 | 16.200 | 14.800 | 13.000 | | |
| Grade | 1.52 | -2.39 | -17.45 | -17.34 | -17.59 | -17.82 | -17.55 | -18.22 | -17.97 | -17.56 | -17.37 | -16.49 | -16.35 | -14.85 | -13.81 | -9.88 | -7.97 | -5.55 | -3.55 | -7.97 | -5.80 | -1.21 | -1.19 | -1.43 | -1.53 | -0.75 | 0.46 | 0.30 | 0.26 | |

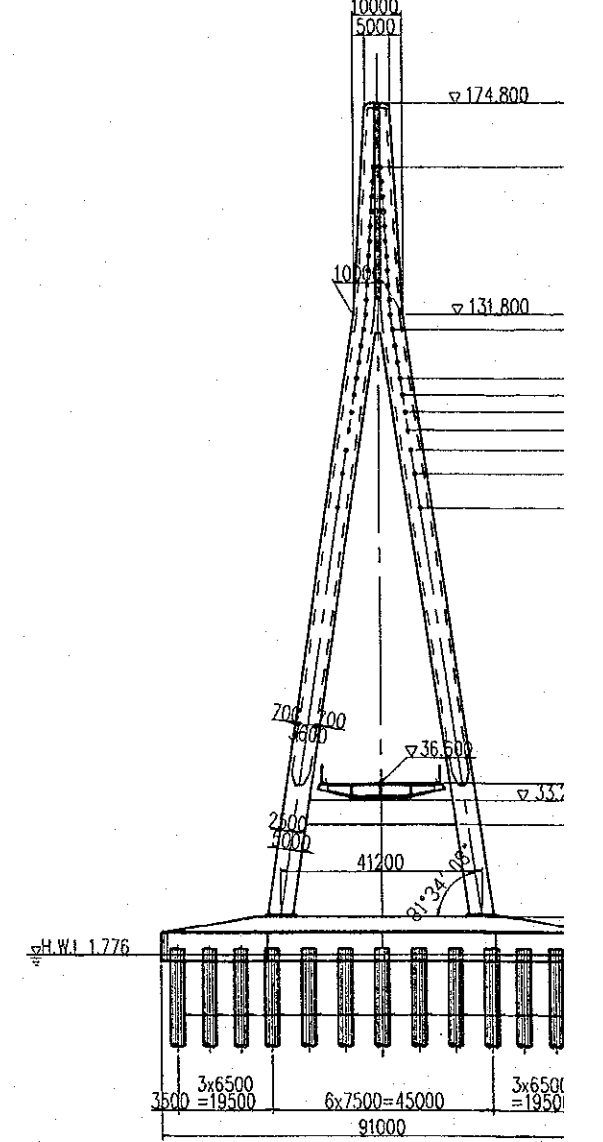
PLAN SCALE 1:2000



PC BOX GIRDER



PYLON (NORTHERN, SOUTH FRONT ELEVATIC

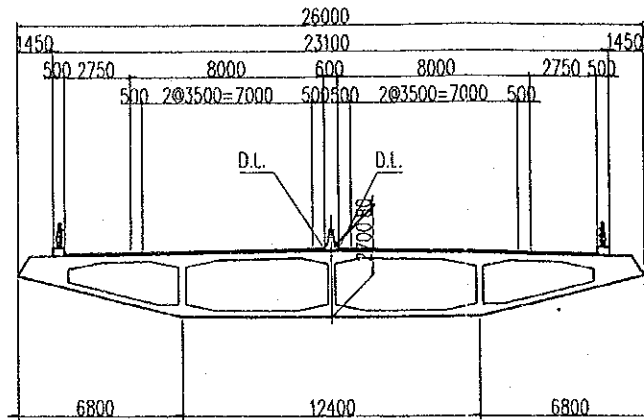


| | | |
|--|--|-----------------------------|
| PROJECT NAME | IMPLEMENTATION AGENCY | EX |
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIS MINISTR MY THUAN F |

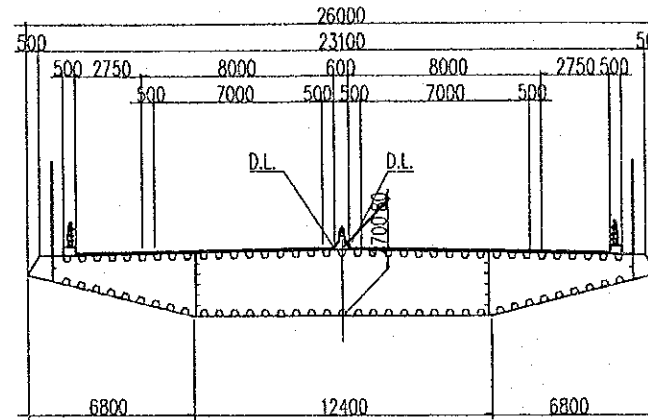
SUPERSTRUCTURE SCALE 1:300

MAIN BRIDGE

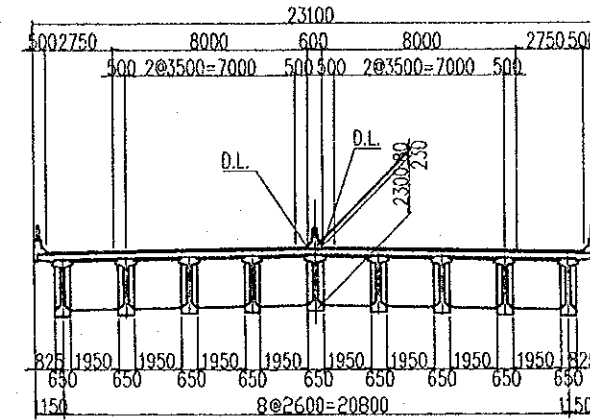
PC BOX GIRDER



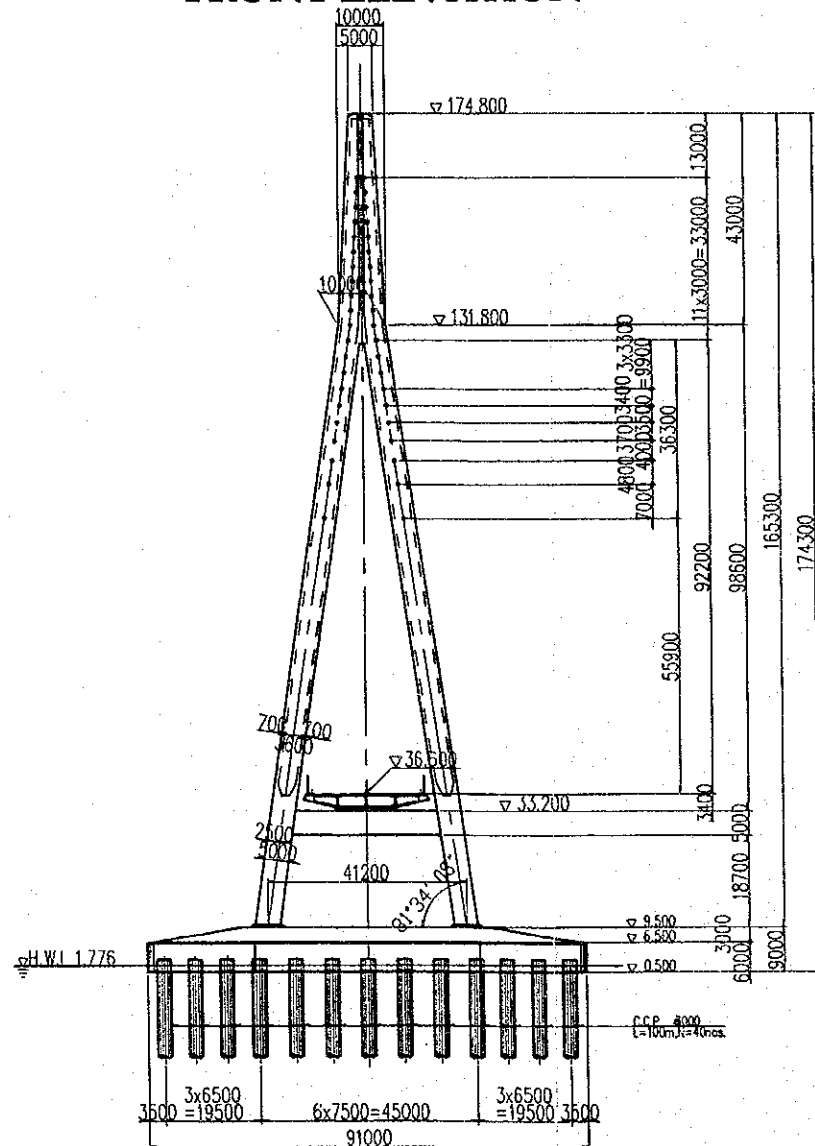
STEEL BOX GIRDER



APPROACH BRIDGE CONNECTED PC I GIRDER

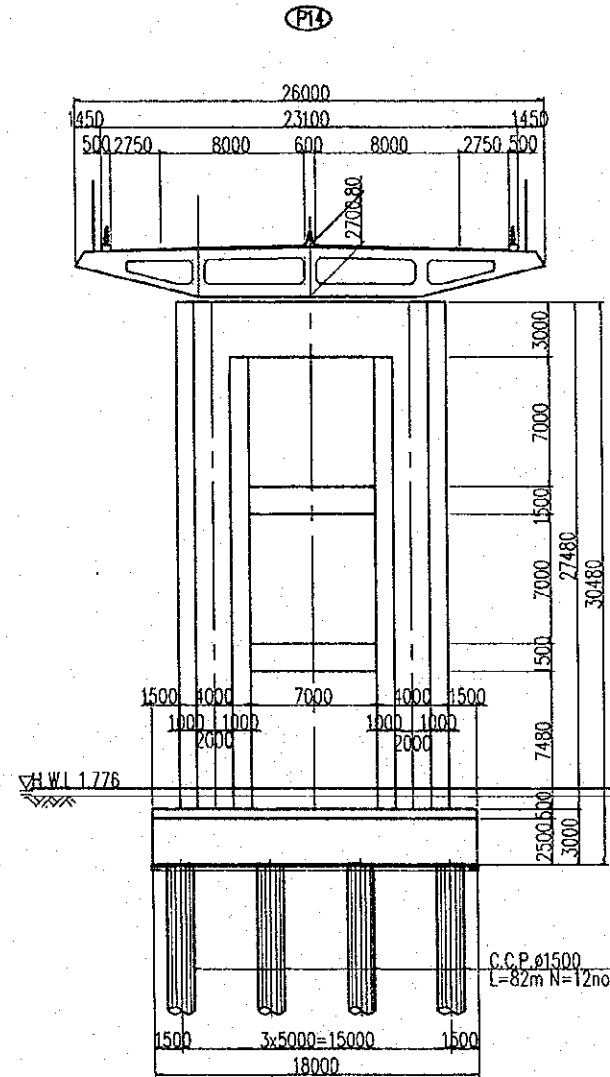


PYLON (NORTHERN, SOUTHERN) FRONT ELEVATION SCALE 1:1500

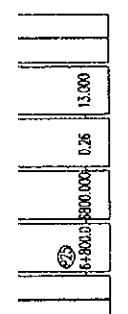
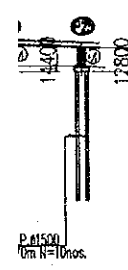
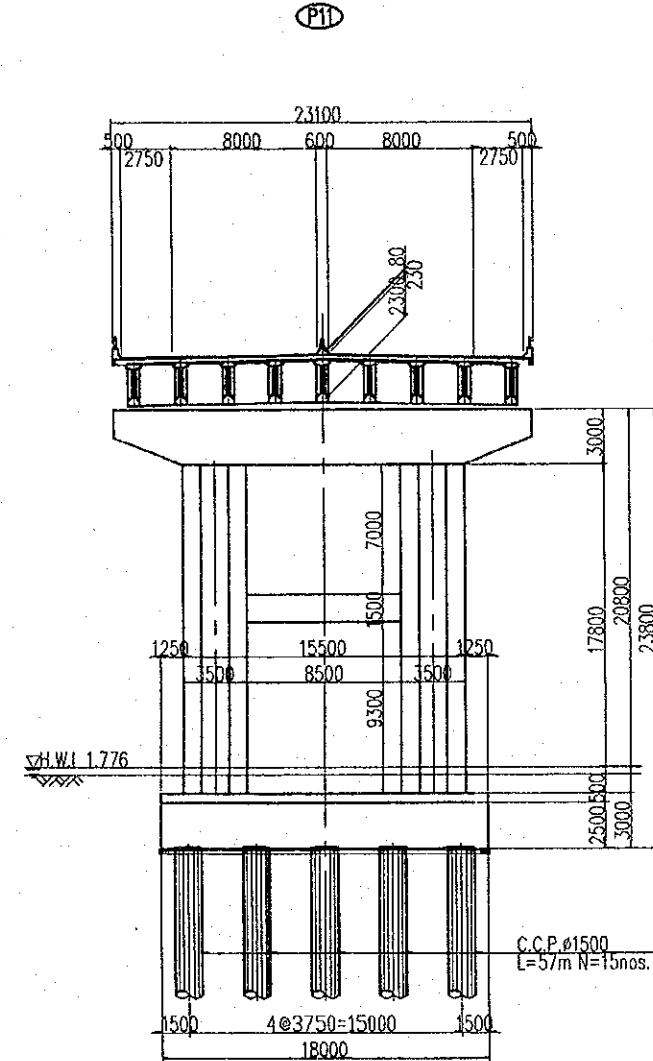


SUBSTRUCTURE SCALE 1:400

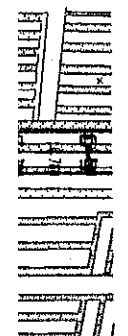
MAIN BRIDGE



APPROACH BRIDGE

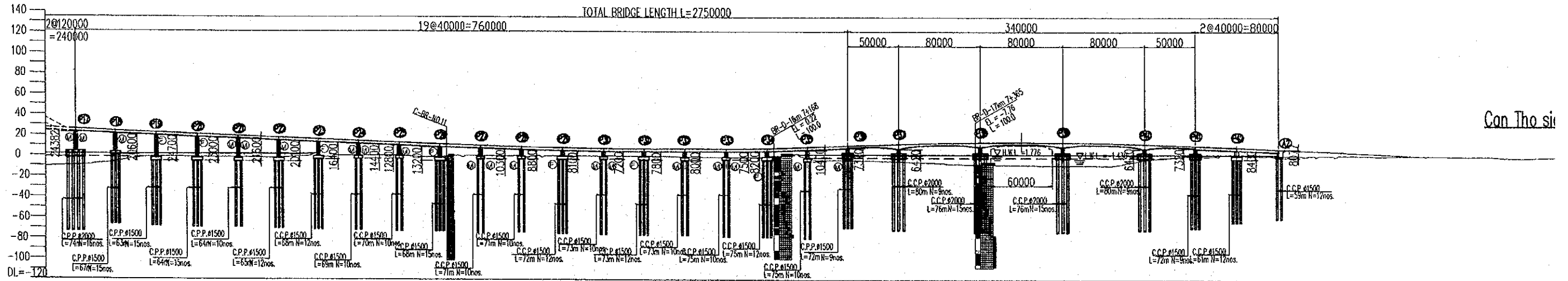


side

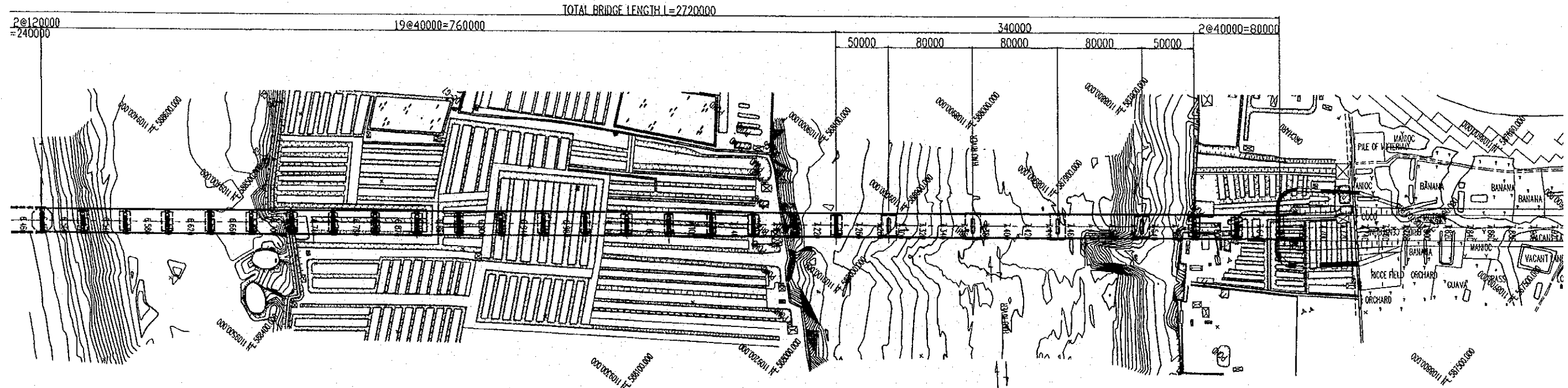


| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|--|---|-----------------------------|-------------|--------------|-------------|--|------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | NIKKO NIIPPON KOEI CO.,LTD. | S. Kiguchi | K. Matsumoto | K. Enomoto | CABLE STAYED BRIDGE GENERAL GENERAL VIEW (1) | P2/GE/0040 |
| | | | | NAME | | | | |
| | | | | SIGNATURE | | | | |
| | | | | DATE | 20/9/2000 | 29/9/2000 | 5/10/2000 | |

SIDE ELEVATION SCALE 1:4000



PLAN SCALE 1:2000

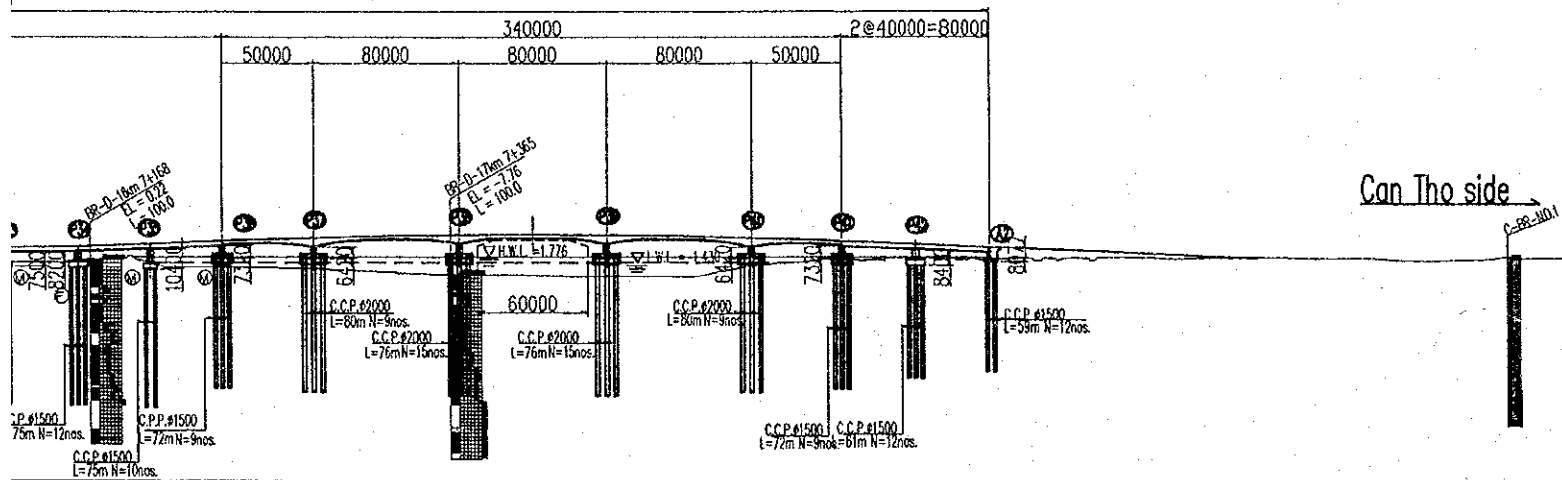


GENERAL VIEW (2/2)

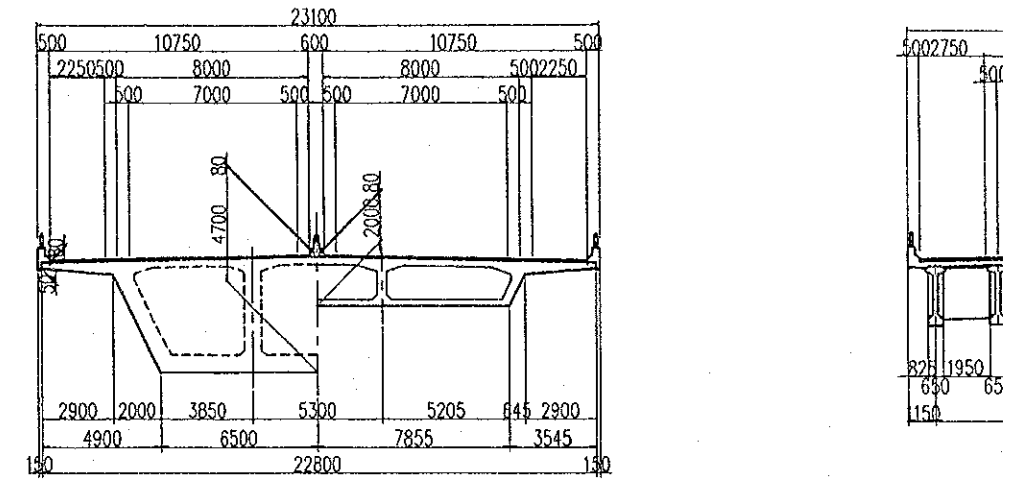
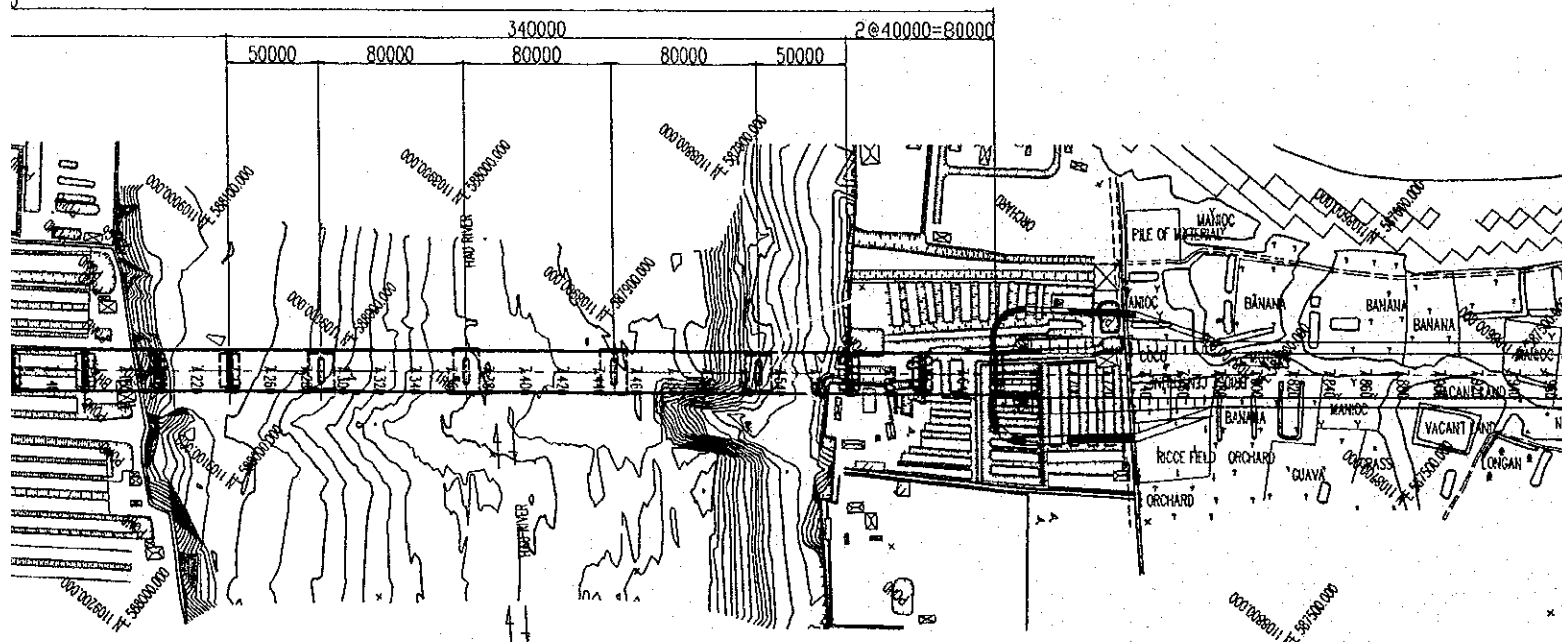
SUPERSTRUCTURE SCALE

MAIN BRIDGE OF SUB-STREAM PC BOX GIRDER

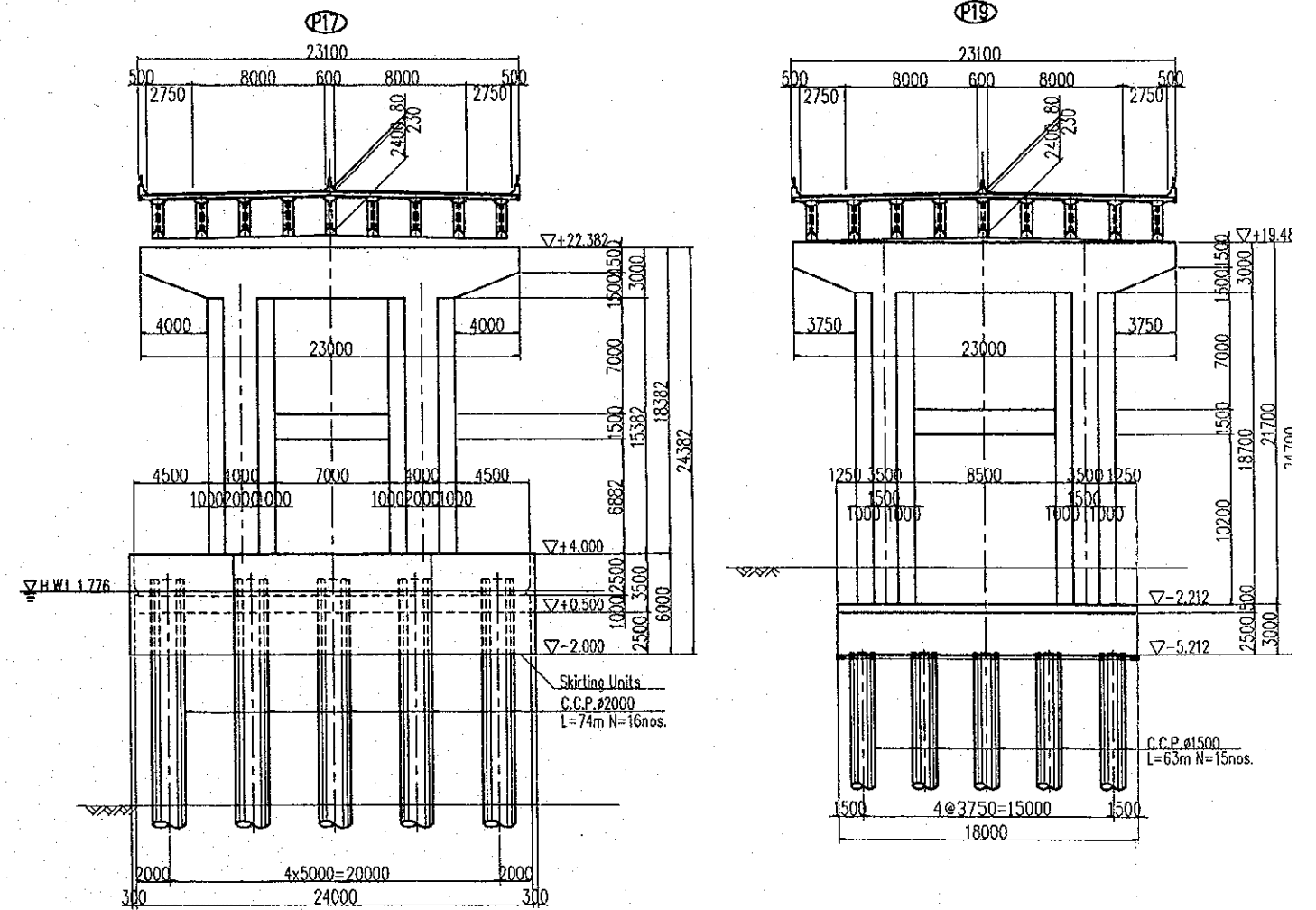
000



| Stationing | 7+500 | 7+600 | 7+700 | 7+800 | 7+900 | 7+000 | 7+100 | 7+200 | 7+300 | 7+400 | 7+500 | 7+600 | 7+700 | 7+800 | 7+900 | 7+000 | 7+100 |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 7+500 | 7.500 | 8.000 | 8.500 | 9.000 | 9.500 | 10.000 | 10.500 | 11.000 | 11.500 | 12.000 | 12.500 | 13.000 | 13.500 | 14.000 | 14.500 | 15.000 | 15.500 |
| 7+600 | -1.10 | -1.14 | -1.18 | -1.22 | -1.26 | -1.30 | -1.34 | -1.38 | -1.42 | -1.46 | -1.50 | -1.54 | -1.58 | -1.62 | -1.66 | -1.70 | -1.74 |
| 7+700 | 7+575.5 | 7+650.0 | 7+725.0 | 7+800.0 | 7+875.0 | 7+950.0 | 8+025.0 | 8+100.0 | 8+175.0 | 8+250.0 | 8+325.0 | 8+400.0 | 8+475.0 | 8+550.0 | 8+625.0 | 8+700.0 | 8+775.0 |
| 7+800 | 7+575.5 | 7+650.0 | 7+725.0 | 7+800.0 | 7+875.0 | 7+950.0 | 8+025.0 | 8+100.0 | 8+175.0 | 8+250.0 | 8+325.0 | 8+400.0 | 8+475.0 | 8+550.0 | 8+625.0 | 8+700.0 | 8+775.0 |
| 7+900 | 7+575.5 | 7+650.0 | 7+725.0 | 7+800.0 | 7+875.0 | 7+950.0 | 8+025.0 | 8+100.0 | 8+175.0 | 8+250.0 | 8+325.0 | 8+400.0 | 8+475.0 | 8+550.0 | 8+625.0 | 8+700.0 | 8+775.0 |
| 7+000 | 7+575.5 | 7+650.0 | 7+725.0 | 7+800.0 | 7+875.0 | 7+950.0 | 8+025.0 | 8+100.0 | 8+175.0 | 8+250.0 | 8+325.0 | 8+400.0 | 8+475.0 | 8+550.0 | 8+625.0 | 8+700.0 | 8+775.0 |
| 7+100 | 7+575.5 | 7+650.0 | 7+725.0 | 7+800.0 | 7+875.0 | 7+950.0 | 8+025.0 | 8+100.0 | 8+175.0 | 8+250.0 | 8+325.0 | 8+400.0 | 8+475.0 | 8+550.0 | 8+625.0 | 8+700.0 | 8+775.0 |



SUBSTRUC



| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY |
|--|---|--|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNI |

SUPERSTRUCTURE SCALE 1:300

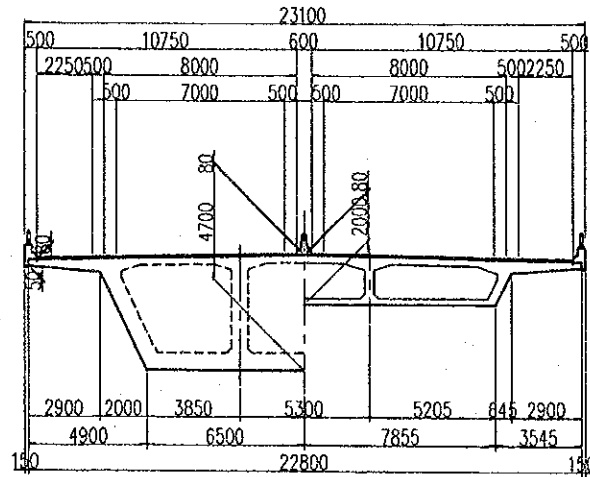
DESIGN CRITERIA

| | |
|---------------------|---|
| TYPE | HYBRID CABLE STAYED BRIDGE |
| TOTAL BRIDGE LENGTH | L=1090.000m |
| SPAN | 2@70m+130m+550m+130m+2@70m |
| WIDTH | CARRIAGE WAY WIDTH=21.5m (10.75m+10.75m) |
| LIVE LOAD | B-LIVE LOAD |
| IMPACT COEFFICIENT | i=20/(L+50) |
| SEISMIC DATE | Kh=0.12 |
| ANGLE OF SKEW | 90° 00' 00" |
| RADIUS OF CURVATURE | R=∞ |
| LONGITUDINAL SLOPE | 4.0% ↘ 4.0% V.C.L.=320m |

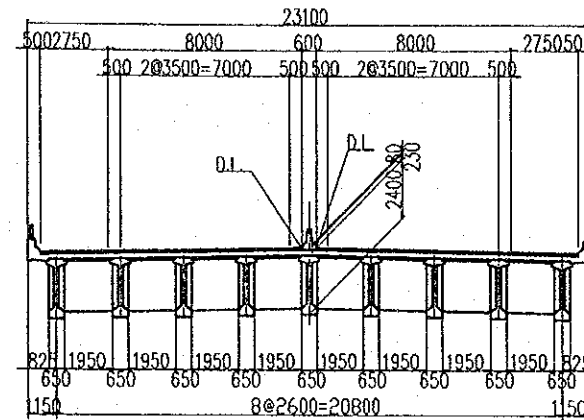
MATERIALS

| | | |
|----------|------------------|----------------------------------|
| CONCRETE | GIRDER | σ _{ck} =50MPa |
| | PYLON | σ _{ck} =40MPa |
| | PILECAP OF PYLON | σ _{ck} =30MPa |
| | SUBSTRUCTURE | σ _{ck} =25MPa |
| PC STEEL | GIRDER | 12S15.2B(SWPR7B) PC Bar Dia.32mm |
| | STAY CABLE | 15.2B(SWPR7B) |
| STEEL | GIRDER | SS400,SMA400,SMA490 |

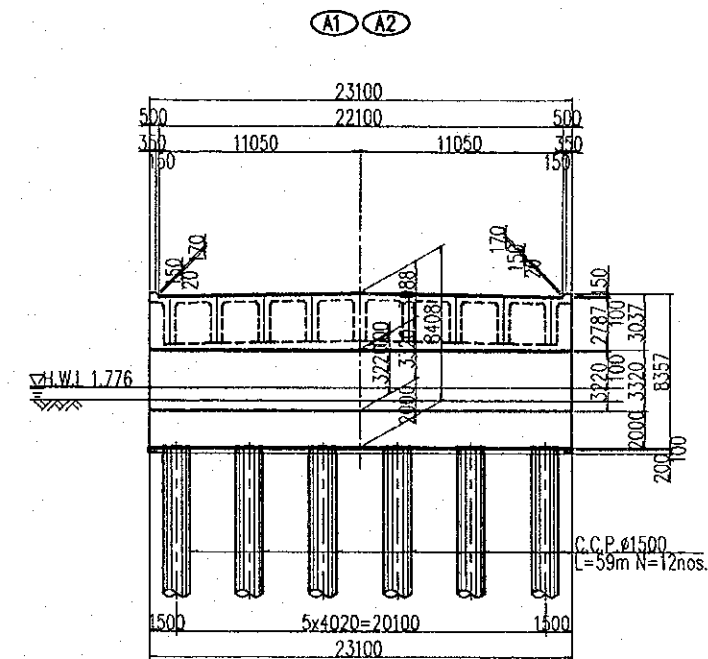
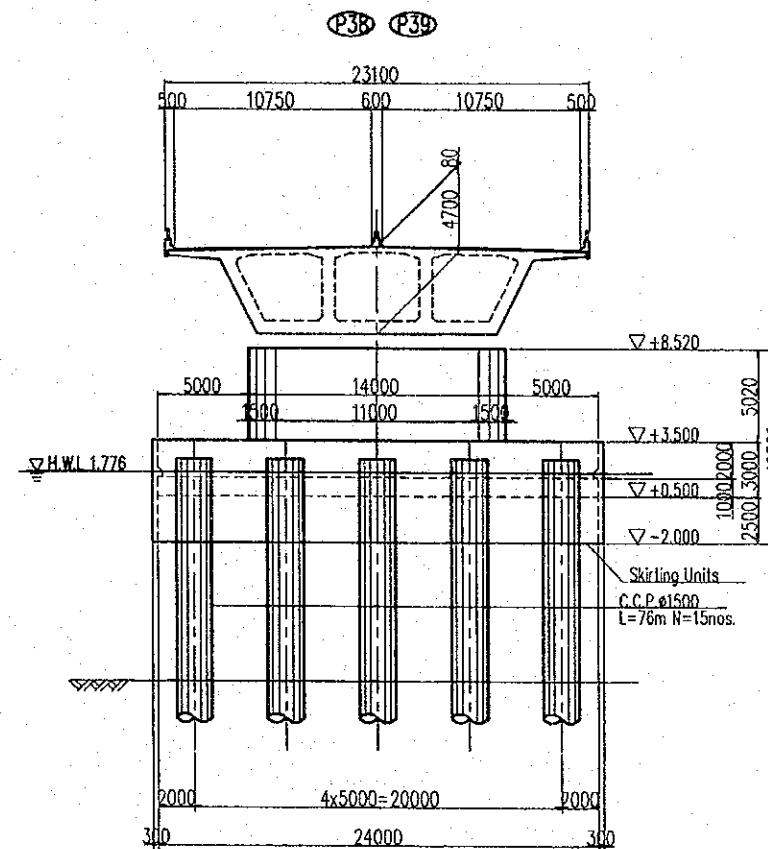
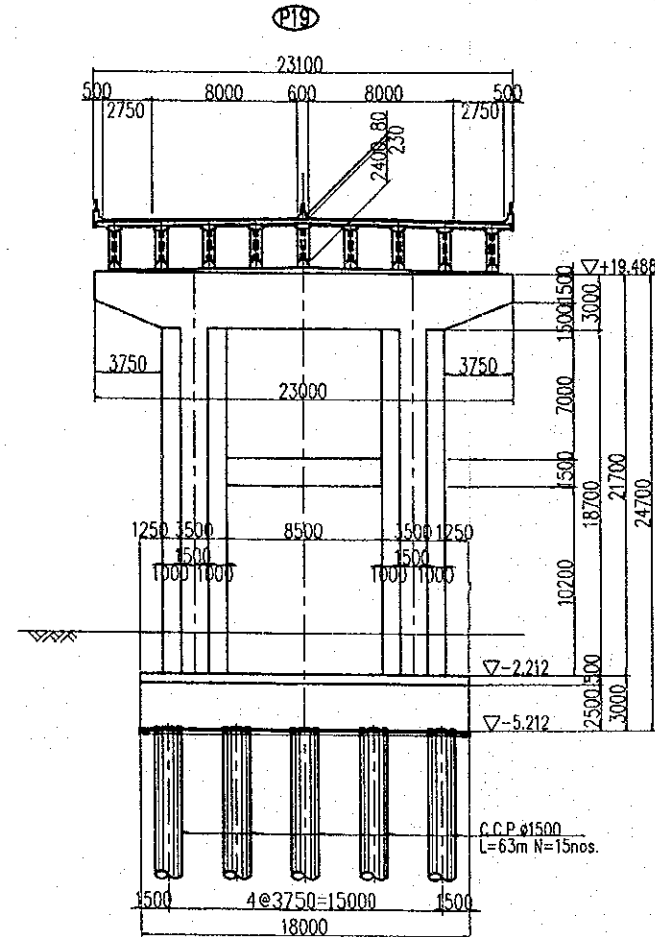
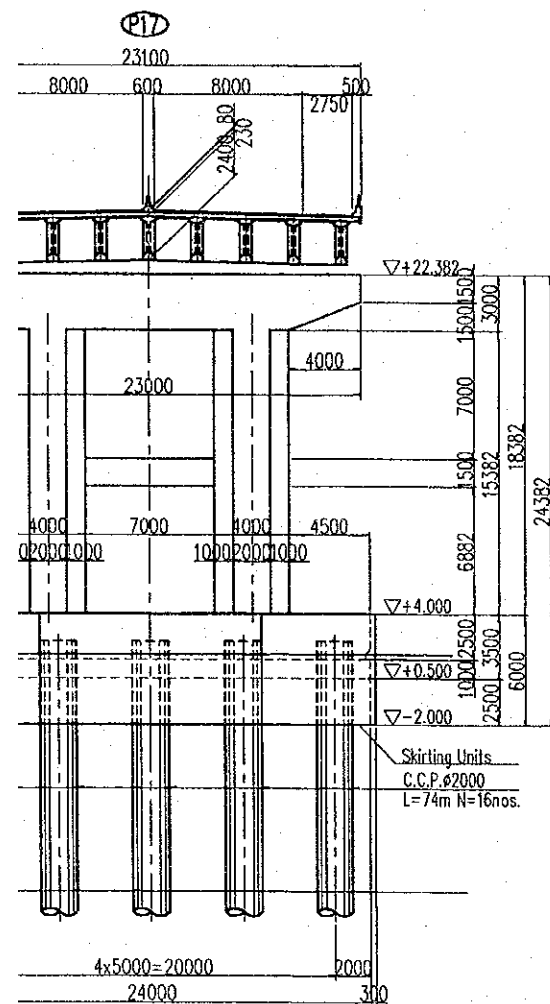
MAIN BRIDGE OF SUB-STREAM
PC BOX GIRDER



APPROACH BRIDGE
PC BOX GIRDER



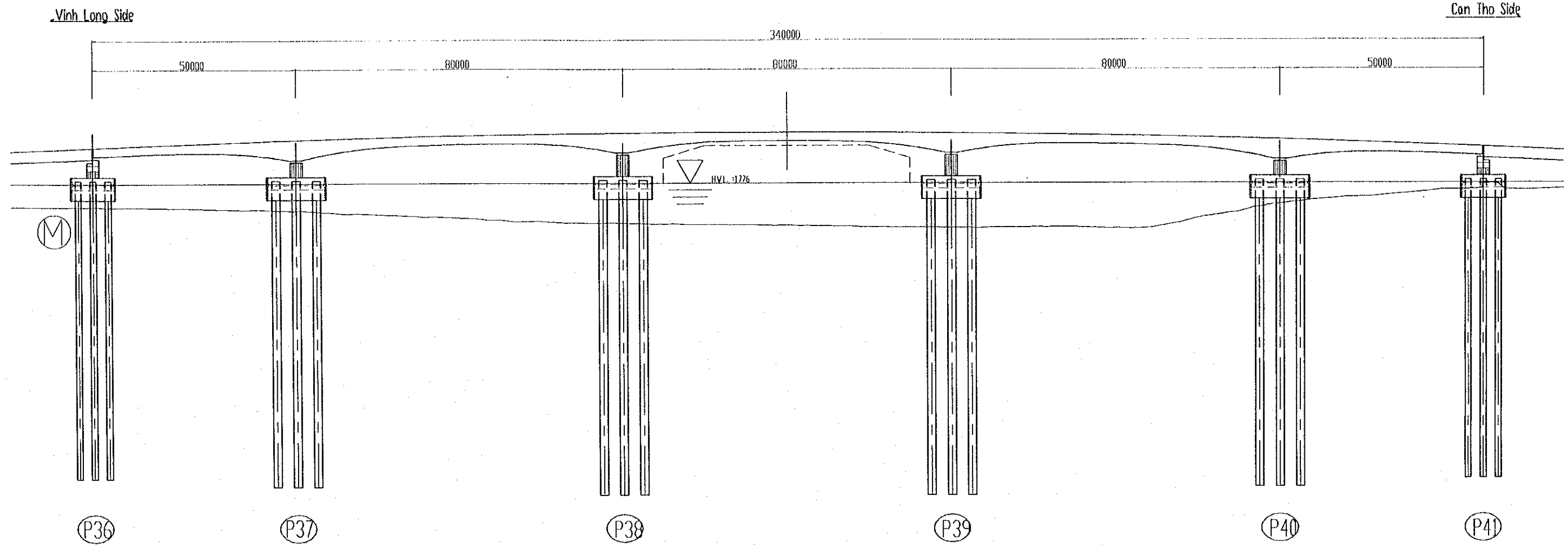
SUBSTRUCTURE SCALE 1:400



| | | | | | | | | | |
|--|--|---|---|-------------|-------------------|---------------------|---|-----------------------|-------------------|
| PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | JICA STUDY TEAM NIPPON KOEI CO.,LTD. | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE CABLE STAYED BRIDGE GENERAL GENERAL VIEW (2) | DWG NO. P2/GE/0050 | |
| | | | | NAME | S. Kiguchi | K. Matsumoto | | | K. Enomoto |
| | | | | SIGNATURE | <i>S. Kiguchi</i> | <i>K. Matsumoto</i> | | | <i>K. Enomoto</i> |
| | | | | DATE | 20/9/2000 | 29/9/2000 | | | 5/10/2000 |

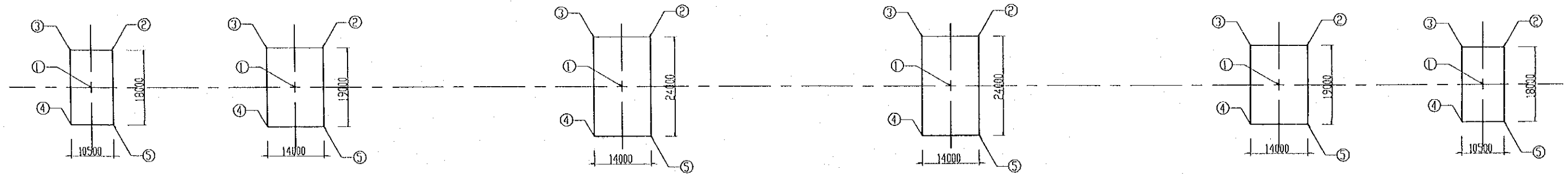
SIDE ELEVATION

(SCALE 1:1000)



PLAN

(SCALE 1:1000)



COORDINATES TABLE

| | P36 | | P37 | | P38 | | P39 | | P40 | | P41 | |
|---|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|
| | N | E | N | E | N | E | N | E | N | E | N | E |
| 1 | 1109055.901 | 588039.574 | 1109024.208 | 588000.836 | 1108973.707 | 587938.855 | 1108923.126 | 587876.875 | 1108872.545 | 587814.894 | 1108840.932 | 587776.157 |
| 2 | 1109045.698 | 588041.197 | 1109012.502 | 588001.419 | 1108959.984 | 587941.019 | 1108909.403 | 587879.039 | 1108860.759 | 587815.478 | 1108830.640 | 587777.700 |
| 3 | 1109052.247 | 588049.331 | 1109021.353 | 588012.266 | 1108968.835 | 587951.866 | 1108918.255 | 587889.885 | 1108869.611 | 587826.324 | 1108837.279 | 587785.915 |
| 4 | 1109066.193 | 588037.951 | 1109036.074 | 588000.253 | 1108987.430 | 587936.692 | 1108936.849 | 587874.711 | 1108884.331 | 587814.311 | 1108851.224 | 587774.534 |
| 5 | 1109059.554 | 588029.816 | 1109027.222 | 587989.406 | 1108978.578 | 587925.845 | 1108927.997 | 587863.865 | 1108875.479 | 587803.465 | 1108844.585 | 587766.399 |

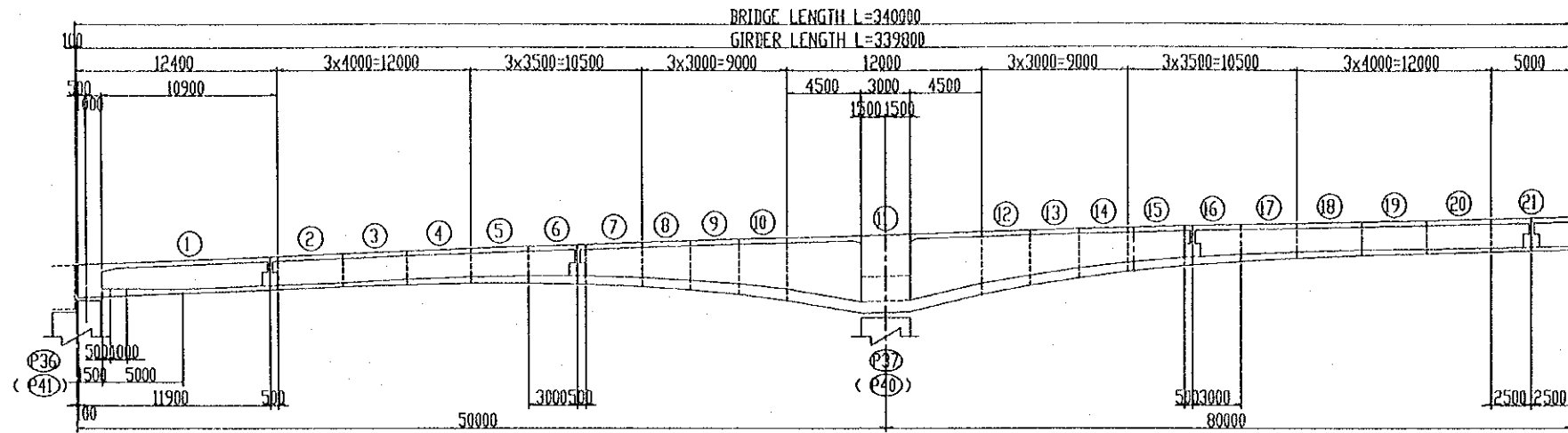
| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|---|---|----------------------------|-------------|--------------|--------------|---|------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | (NK) NIPPON KOEI CO., LTD. | S. Kiguchi | K. Matsumoto | K. Enomoto | APPROACH BRIDGE GENERAL COORDINATE OF BRIDGE | P2/GB/0060 |
| | | | | SIGNATURE | S. Kiguchi | K. Matsumoto | | |
| | | | | DATE | 20/9/2000 | 29/9/2000 | | |
| | | | | | | 5/10/2000 | | |

II. SUPERSTRUCTURE

SIDE ELEVATION

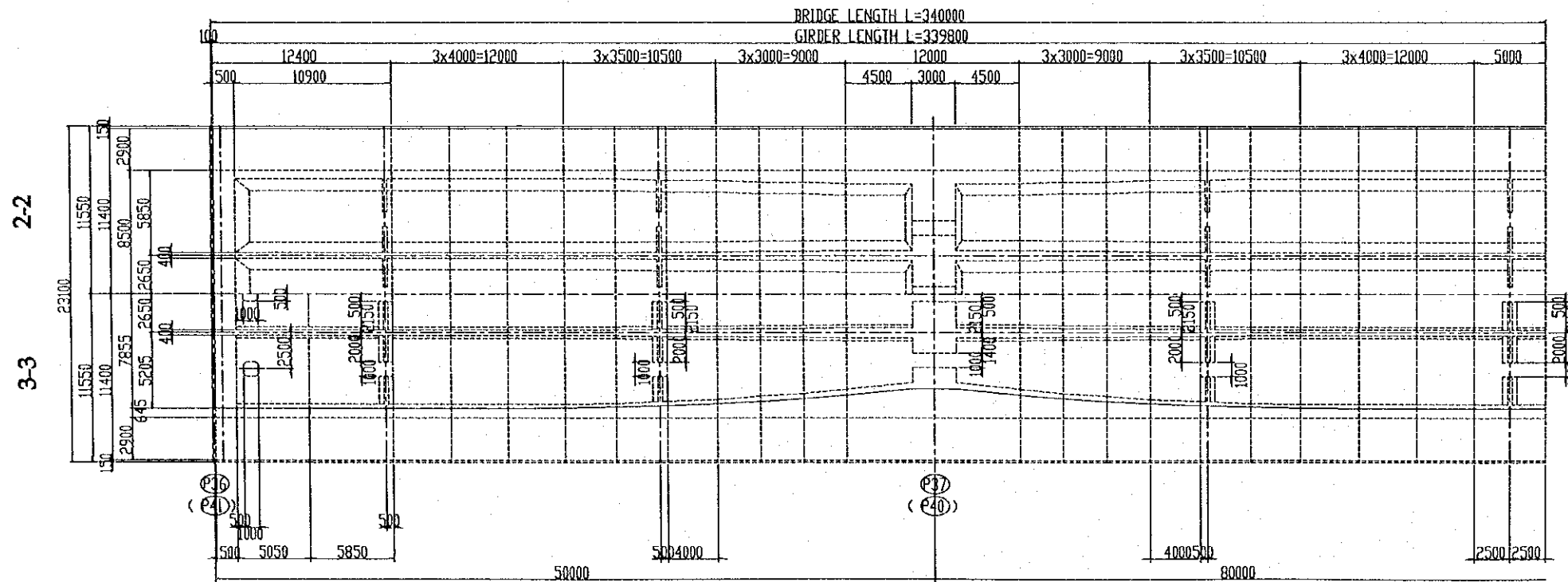
SCALE 1:400

1-1

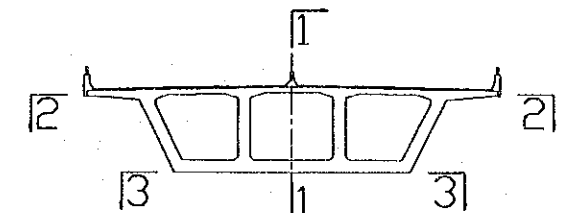
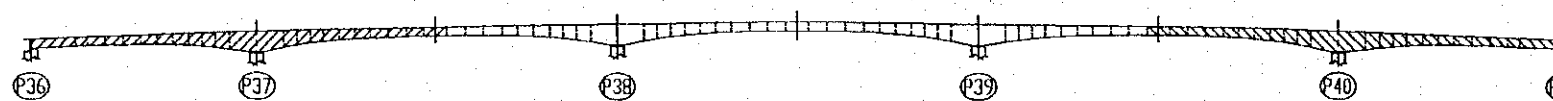


| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WEB | -2.000 | -2.000 | -2.004 | -2.030 | -2.100 | -2.216 | -2.397 | -2.659 | -2.960 | -3.340 | -3.809 | -4.700 | -4.700 | -3.809 | -3.340 | -2.960 | -2.659 | -2.397 | -2.216 | -2.100 | -2.030 | -2.004 | -2.000 | -2.000 | |
| LOWER SLAB | -0.250 | -0.250 | -0.260 | -0.330 | -0.380 | -0.430 | -0.490 | -0.540 | -0.580 | -0.630 | -0.700 | -0.700 | -0.700 | -0.700 | -0.630 | -0.580 | -0.540 | -0.490 | -0.430 | -0.380 | -0.330 | -0.260 | -0.250 | -0.250 | -0.250 |
| SLAB | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 | -0.300 |
| GIRDER HEIGHT | -2.000 | -2.000 | -2.004 | -2.030 | -2.100 | -2.216 | -2.397 | -2.659 | -2.960 | -3.340 | -3.809 | -4.700 | -4.700 | -3.809 | -3.340 | -2.960 | -2.659 | -2.397 | -2.216 | -2.100 | -2.030 | -2.004 | -2.000 | -2.000 | -2.000 |

PLAN

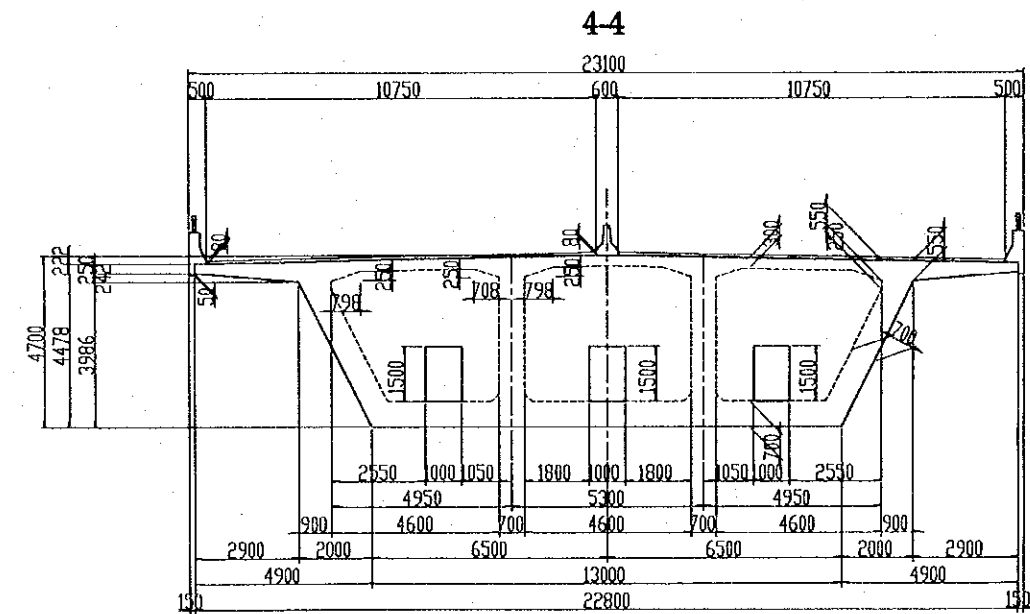
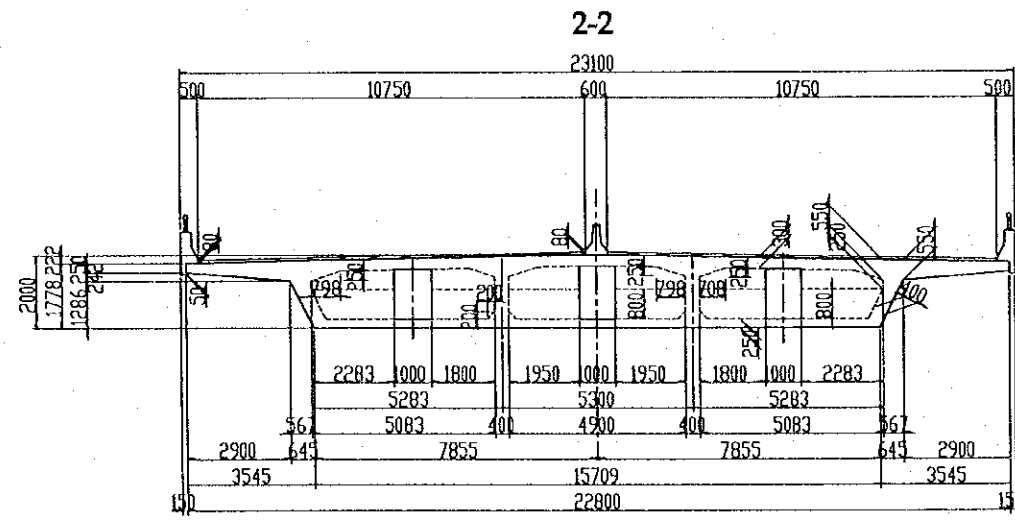
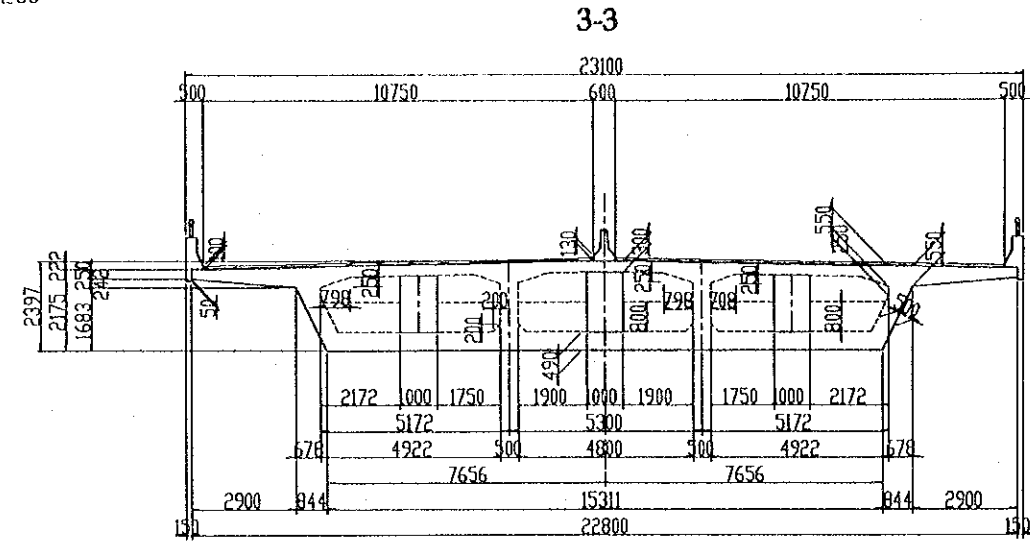
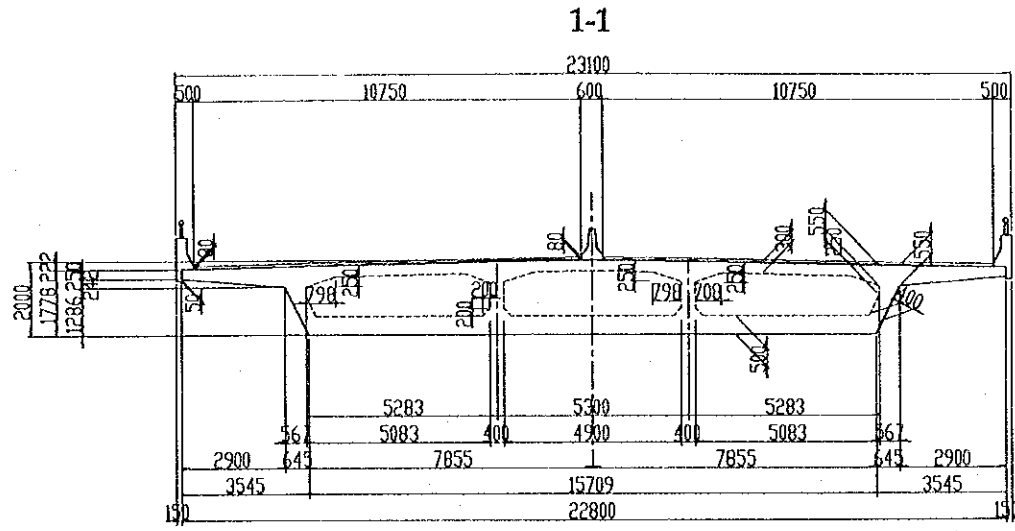


MARKING DIAGRAM



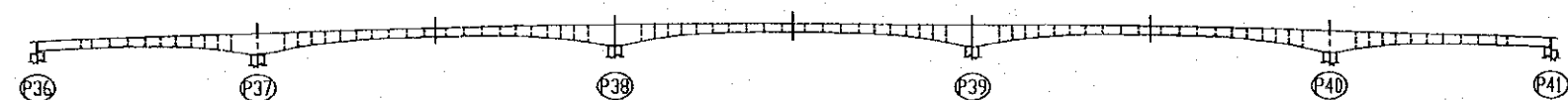
| | | | | | | | | |
|--|---|---|------------------------------|-------------------|-------------------|-------------------|---|------------|
| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | (NK) NIPPON KOEI CO.,LTD. | S. Kiguchi | K. Matsumoto | K. Enomoto | SUB STREAM BRIDGE SUPER STRUCTURE GIRDER SEGMENT ARRANGEMENT(1) | P2/AS/0010 |
| | | | | DATE 20/9/2000 | DATE 29/9/2000 | DATE 5/10/2000 | | |

SCALE 1:200



1 2 3 4

MARKING DIAGRAM

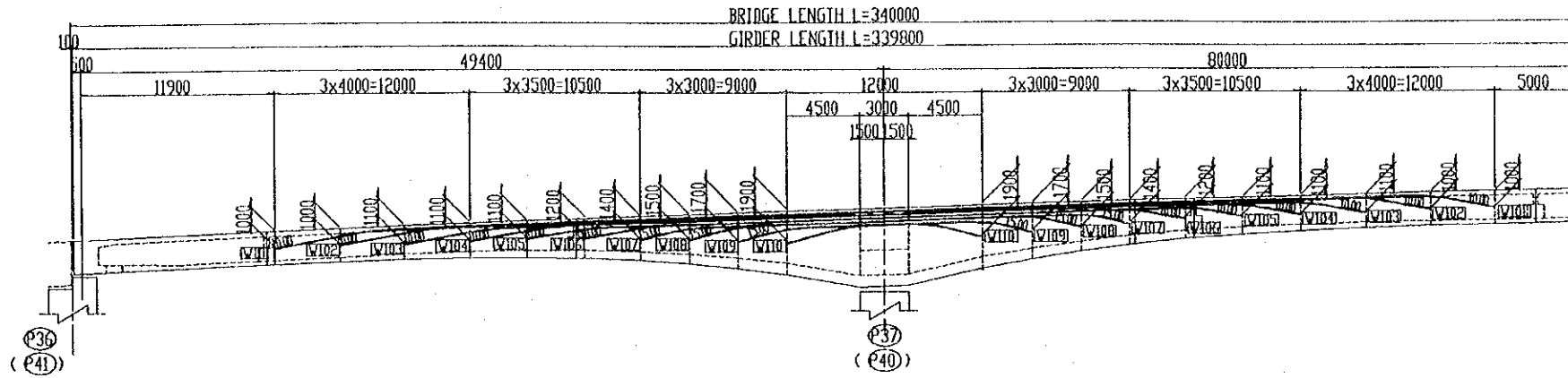


1 2 3 4

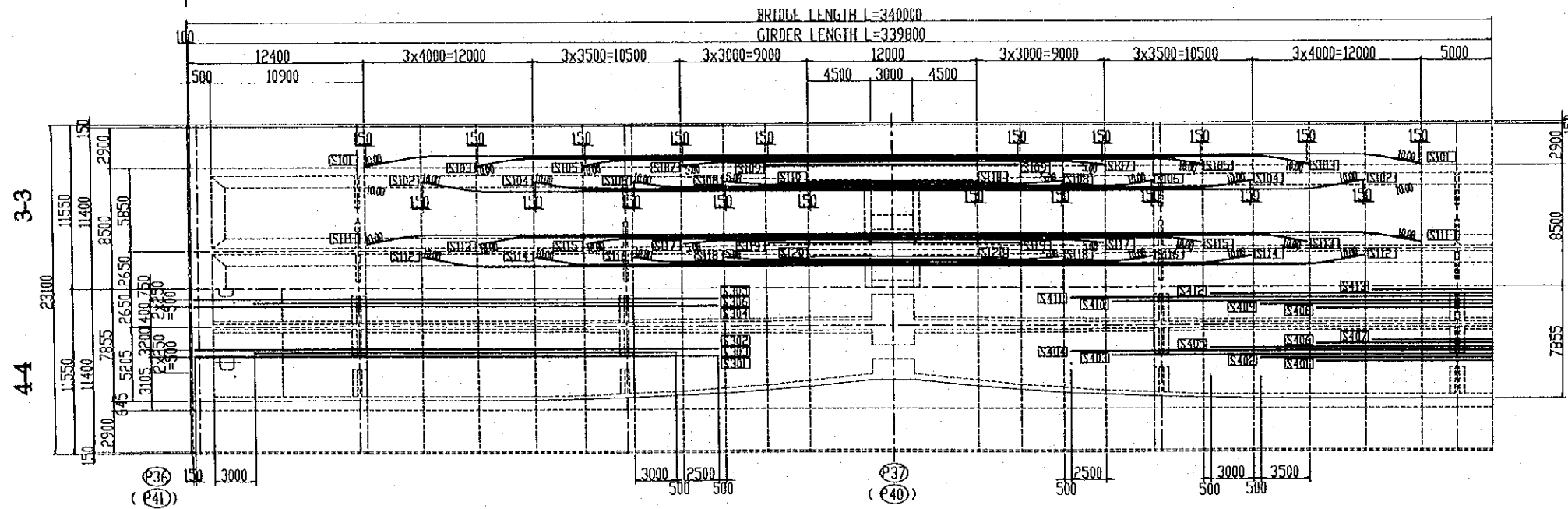
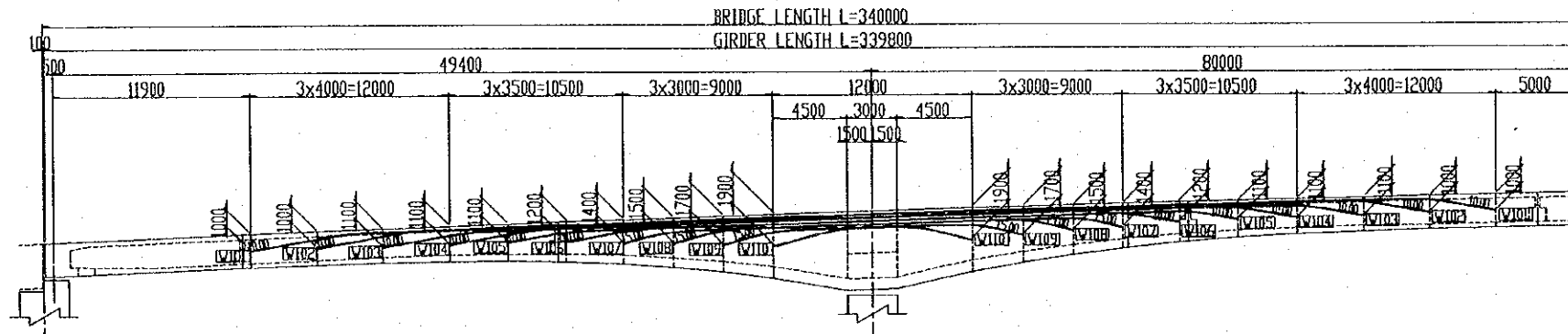
| | | | | | | | | |
|--|--|---|---|-----------------------------------|----------------------------|---------------------------|--|-----------------------|
| PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | JICA STUDY TEAM NIPPON KOEI CO.,LTD. | PREPARED BY NAME S. Kiguchi | CHECKED BY K. Matsumoto | APPROVED BY K. Enomoto | DRAWING TITLE SUB STREAM BRIDGE SUPER STRUCTURE GIRDER SEGMENT ARRANGEMENT(3) | DWG NO. P2/AS/0030 |
| | | | | SIGNATURE S. Kiguchi | K. Matsumoto | | | |
| | | | | DATE 20/9/2000 | 29/9/2000 | 5/10/2000 | | |

SCALE 1:400

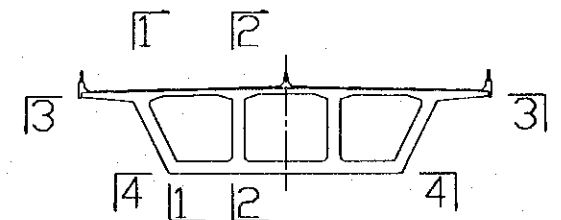
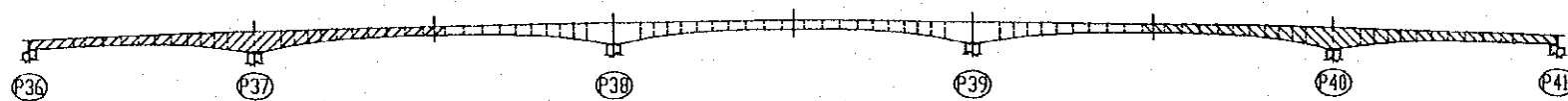
1-1



2-2



MARKING DIAGRAM

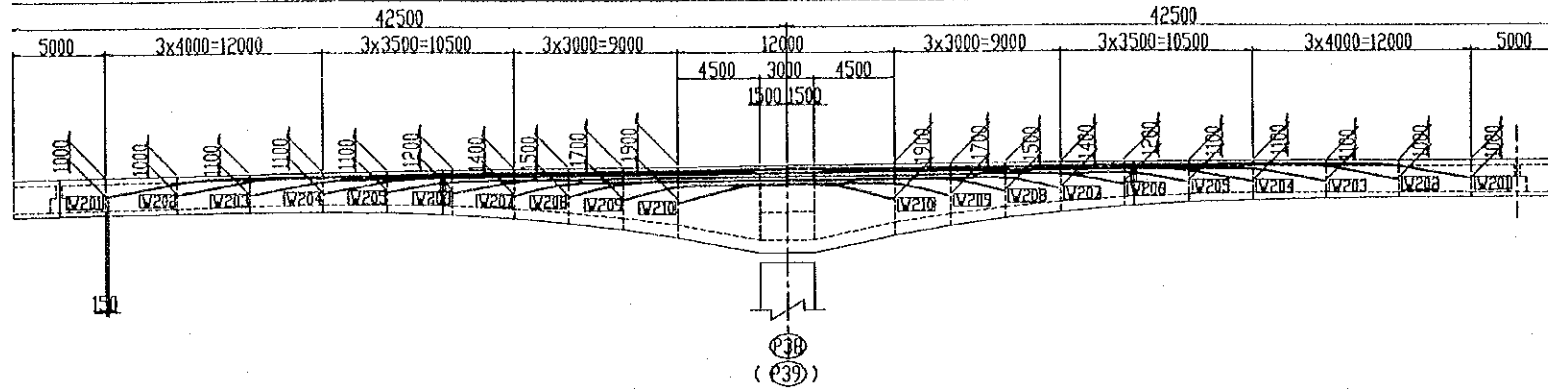


| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|---|---|----------------------------|---|---|---|---|------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | (NK) NIPPON KOEI CO., LTD. | NAME: S. Kiguchi SIGNATURE: <i>S. Kiguchi</i> DATE: 20/9/2000 | NAME: K. Matsumoto SIGNATURE: <i>K. Matsumoto</i> DATE: 29/9/2000 | NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000 | SUB STREAM BRIDGE SUPER STRUCTURE PC TENDON ARRANGEMENT OF GIRDER (1) | P2/AS/0040 |

SCALE 1:400

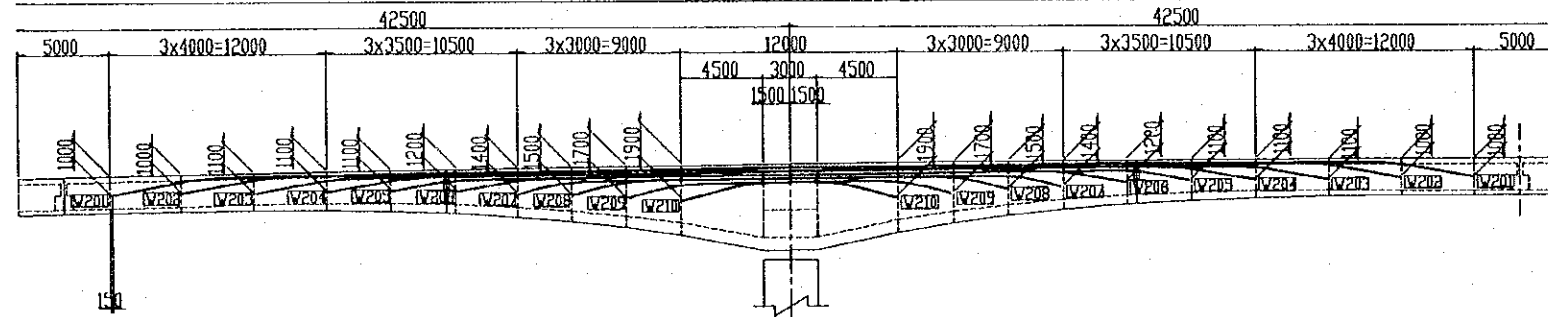
1-1

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GIRDER LENGTH L=339800

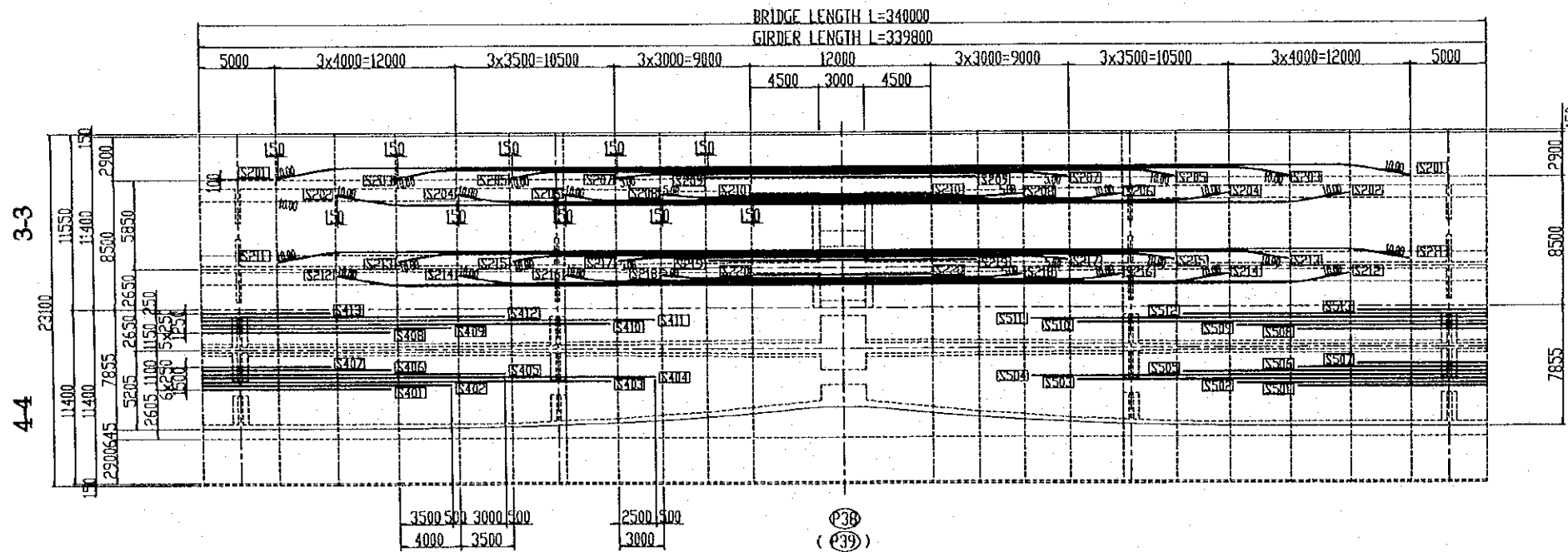


2-2

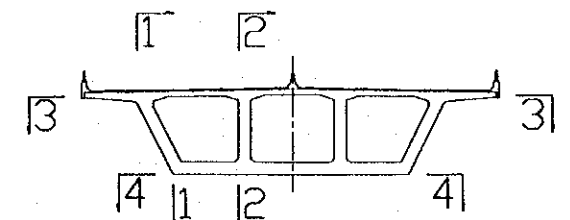
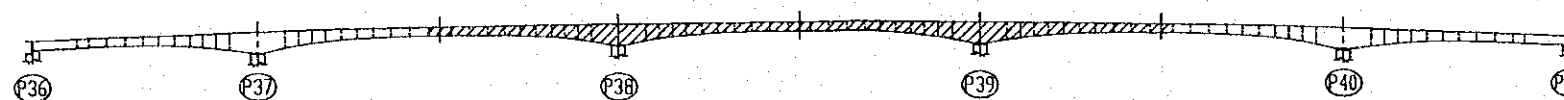
BRIDGE LENGTH L=340000
GIRDER LENGTH L=339800



BRIDGE LENGTH L=340000
GIRDER LENGTH L=339800



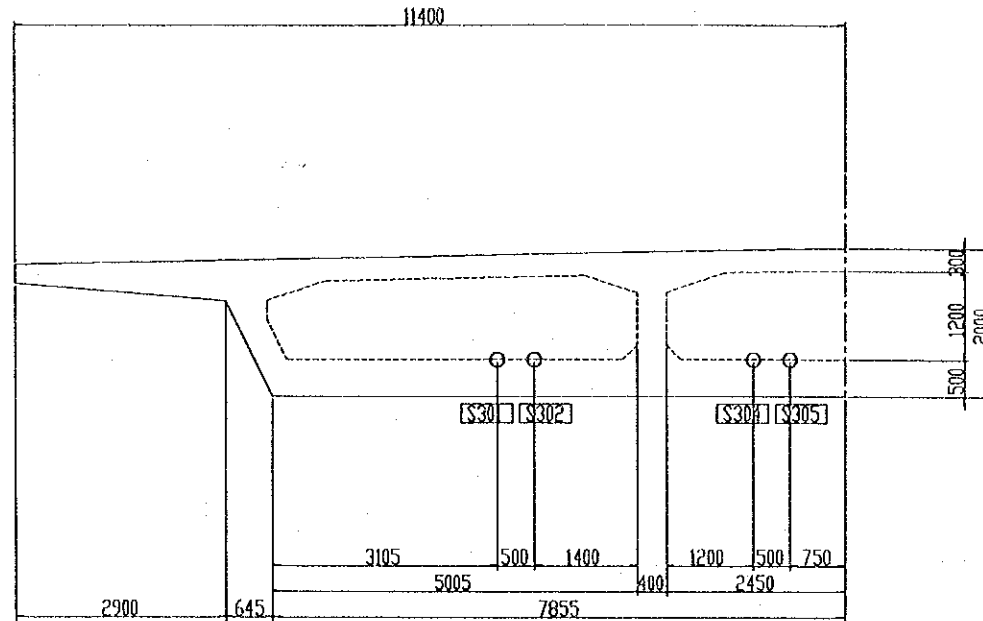
MARKING DIAGRAM



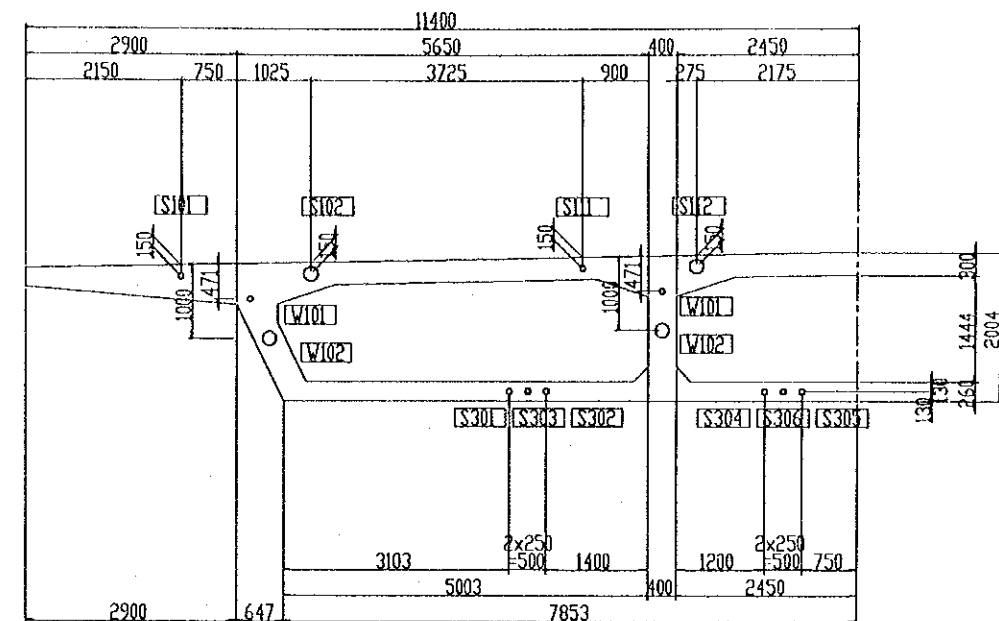
| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|---|---|---------------------------|---|--|--|--|------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | (NK) NIPPON KOEI CO.,LTD. | NAME: S. Kiguchi SIGNATURE: <i>S. Kiguchi</i> DATE: 20/9/2000 | K. Matsumoto <i>K. Matsumoto</i> 29/9/2000 | K. Enomoto <i>K. Enomoto</i> 5/10/2000 | SUB STREAM BRIDGE SUPER STRUCTURE PC TENDON ARRANGEMENT OF GIRDER(2) | P2/AS/0050 |

SCALE 1:100

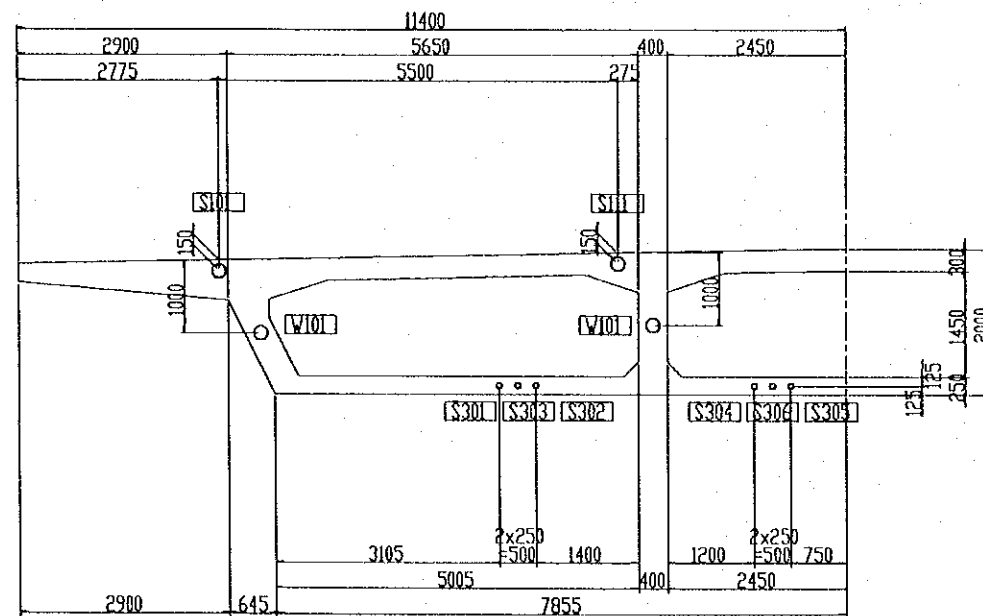
SECTION-1



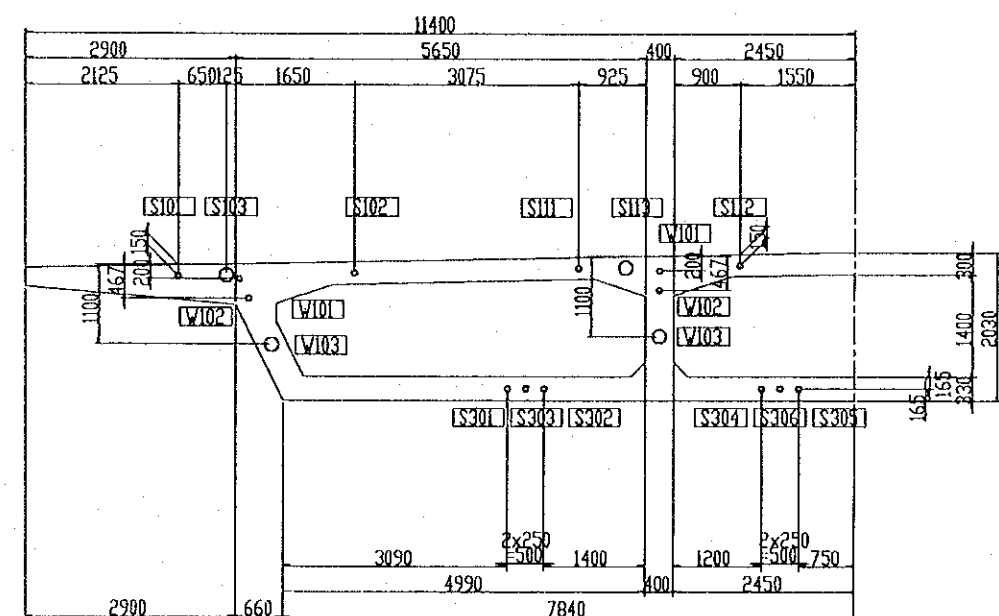
SECTION-3



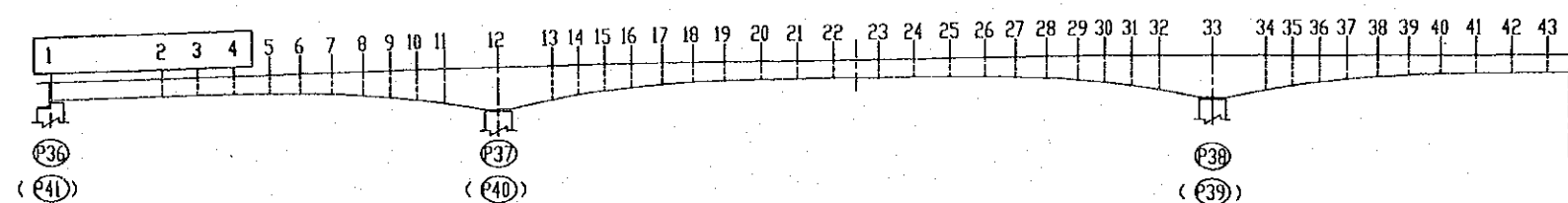
SECTION-2



SECTION-4

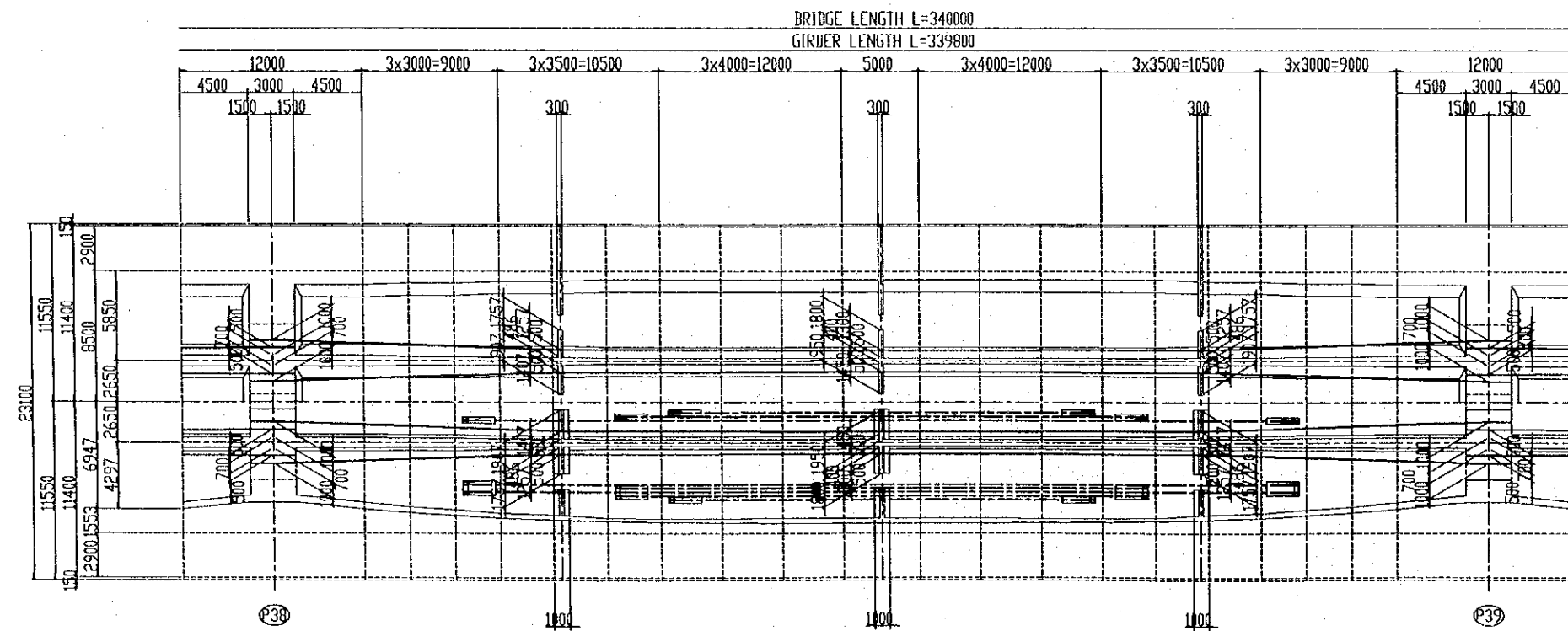
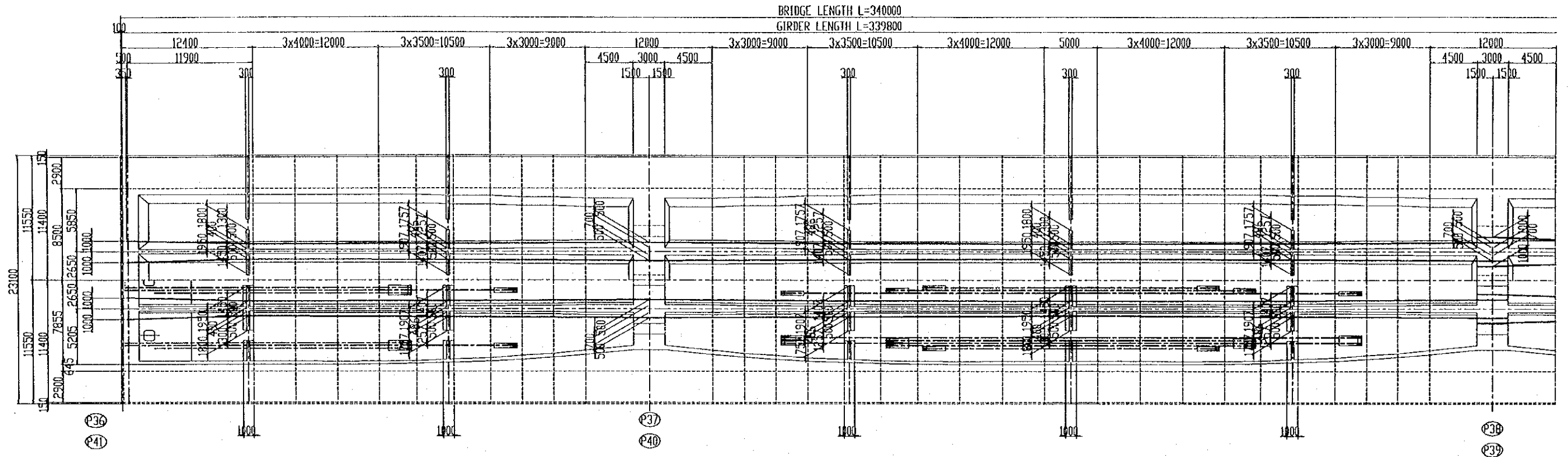


MARKING DIAGRAM

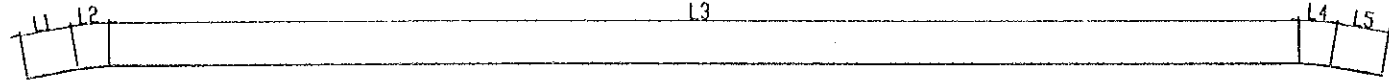


| | | | | | | | | |
|--|--|---|---|--|---|--|---|-----------------------|
| PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | JICA STUDY TEAM NIPPON KOEI CO.,LTD. | PREPARED BY NAME: S. Kiguchi SIGNATURE: <i>S. Kiguchi</i> DATE: 20/9/2000 | CHECKED BY NAME: K. Matsumoto SIGNATURE: <i>K. Matsumoto</i> DATE: 29/9/2000 | APPROVED BY NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000 | DRAWING TITLE SUB STREAM BRIDGE SUPER STRUCTURE PC TENDON ARRANGEMENT OF GIRDER(3) | DWG NO. P2/AS/0060 |
|--|--|---|---|--|---|--|---|-----------------------|

SCALE 1:400

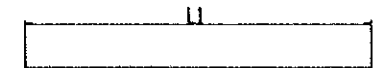


| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|---|---|-------------------------------|---|--|--|--|------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | (NKK) NIPPON KOEI CO.,LTD. | NAME S. Kiguchi SIGNATURE <i>S. Kiguchi</i> DATE 20/9/2000 | K. Matsumoto <i>K. Matsumoto</i> 29/9/2000 | K. Enomoto <i>K. Enomoto</i> 5/10/2000 | SUB STREAM BRIDGE SUPER STRUCTURE PC TENDON ARRANGEMENT OF GIRDER(5) | P2/AS/0080 |



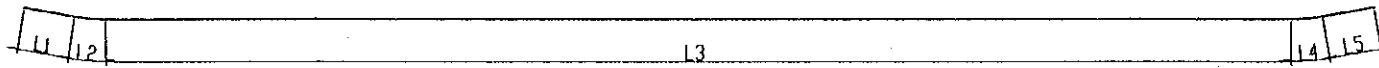
(V101) ~ (V110) (V201) ~ (V210)

| CABLE No. | L1 | L2 | L3 | L4 | L5 | Total | Remarks |
|-----------|------|------|-------|------|------|-------|----------|
| (V101) | 5211 | 1366 | 63195 | 1967 | 3133 | 74072 | 12S12.7B |
| (V102) | 5163 | 1376 | 55245 | 1977 | 3107 | 66868 | |
| (V103) | 4392 | 1386 | 48508 | 1986 | 2574 | 58846 | |
| (V104) | 4350 | 1395 | 40551 | 1995 | 2550 | 50841 | |
| (V105) | 2884 | 1404 | 35986 | 2003 | 1524 | 43801 | |
| (V106) | 3568 | 1412 | 27816 | 2012 | 2008 | 36816 | |
| (V107) | 1493 | 2293 | 22511 | 2892 | 655 | 29844 | |
| (V108) | 1919 | 2299 | 15753 | 2899 | 995 | 23865 | |
| (V109) | 1898 | 2318 | 9747 | 2918 | 981 | 17862 | |
| (V110) | 2744 | 2318 | 2275 | 2918 | 1656 | 11911 | |
| (V201) | 4374 | 1567 | 63441 | 1767 | 3695 | 74844 | |
| (V202) | 4336 | 1577 | 55489 | 1777 | 3664 | 66843 | |
| (V203) | 3665 | 1586 | 48715 | 1786 | 3040 | 58792 | |
| (V204) | 3632 | 1595 | 40758 | 1795 | 3042 | 50822 | |
| (V205) | 2350 | 1603 | 36124 | 1803 | 1903 | 43783 | |
| (V206) | 2951 | 1612 | 27987 | 1812 | 2440 | 36802 | |
| (V207) | 1190 | 2492 | 22521 | 2692 | 911 | 29806 | |
| (V208) | 1583 | 2499 | 15800 | 2699 | 1276 | 23857 | |
| (V209) | 1570 | 2508 | 9806 | 2709 | 1264 | 17857 | |
| (V210) | 2364 | 2508 | 2326 | 2709 | 2008 | 11915 | |



(S301) ~ (S306) (S401) ~ (S413) (S501) ~ (S513)

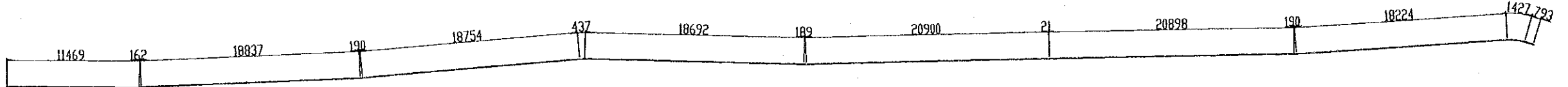
| CABLE No. | L1 | L2 | L3 | L4 | L5 | Total | Remarks |
|---------------|-------|----|----|----|----|-------|----------|
| (S301) | 27250 | - | - | - | - | 27250 | 12S12.7B |
| (S302) | 27250 | - | - | - | - | 27250 | |
| (S303) | 29900 | - | - | - | - | 29900 | |
| (S304) | 27250 | - | - | - | - | 27250 | |
| (S305) | 27250 | - | - | - | - | 27250 | |
| (S306) | 29900 | - | - | - | - | 29900 | |
| (S401) (S501) | 25000 | - | - | - | - | 25000 | |
| (S402) (S502) | 33000 | - | - | - | - | 33000 | |
| (S403) (S503) | 54000 | - | - | - | - | 54000 | |
| (S404) (S504) | 60000 | - | - | - | - | 60000 | |
| (S405) (S505) | 40000 | - | - | - | - | 40000 | |
| (S406) (S506) | 25000 | - | - | - | - | 25000 | |
| (S407) (S507) | 17000 | - | - | - | - | 17000 | |
| (S408) (S508) | 25000 | - | - | - | - | 25000 | |
| (S409) (S509) | 33000 | - | - | - | - | 33000 | |
| (S410) (S510) | 54000 | - | - | - | - | 54000 | |
| (S411) (S511) | 60000 | - | - | - | - | 60000 | |
| (S412) (S512) | 40000 | - | - | - | - | 40000 | |
| (S413) (S513) | 17000 | - | - | - | - | 17000 | |



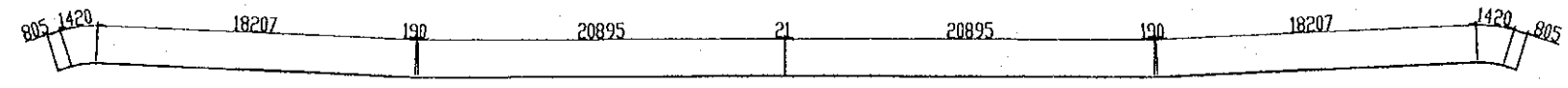
(S101) ~ (S110) (S201) ~ (S210)
(S111) ~ (S120) (S211) ~ (S220)

| CABLE No. | L1 | L2 | L3 | L4 | L5 | Total | Remarks |
|-----------------------------|-------|------|-------|------|------|-------|----------|
| (S101) (S111) (S201) (S211) | 2868 | 1745 | 65578 | 1745 | 2868 | 74804 | 12S12.7B |
| (S102) (S112) (S202) (S212) | 2868 | 1745 | 57578 | 1745 | 2868 | 66804 | |
| (S103) (S113) (S203) (S213) | 2004 | 1745 | 51279 | 1745 | 2004 | 58777 | |
| (S104) (S114) (S204) (S214) | 2004 | 1745 | 43279 | 1745 | 2004 | 50777 | |
| (S105) (S115) (S205) (S215) | 1141 | 1745 | 37980 | 1745 | 1141 | 43752 | |
| (S106) (S116) (S206) (S216) | 1141 | 1745 | 30980 | 1745 | 1141 | 36752 | |
| (S107) (S117) (S207) (S217) | 1858 | 873 | 24255 | 873 | 1858 | 29717 | |
| (S108) (S118) (S208) (S218) | 1858 | 873 | 18255 | 873 | 1858 | 23717 | |
| (S109) (S119) (S209) (S219) | 17700 | - | - | - | - | 17700 | |
| (S110) (S120) (S210) (S220) | 11700 | - | - | - | - | 11700 | |



| | | | | | | | | |
|--|--|---|--|-----------------------------------|----------------------------|---------------------------|--|-----------------------|
| PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | JICA STUDY TEAM (NK) NIPPON KOHI CO.,LTD. | PREPARED BY NAME S. Kiguchi | CHECKED BY K. Matsumoto | APPROVED BY K. Enomoto | DRAWING TITLE SUB STREAM BRIDGE SUPER STRUCTURE PC TENDON ARRANGEMENT OF GIRDER (6) | DWG NO. P2/AS/0090 |
| | | | | SIGNATURE S. Kiguchi | K. Matsumoto | J. Enomoto | | |
| | | | | DATE 20/9/2000 | 29/9/2000 | 5/10/2000 | | |



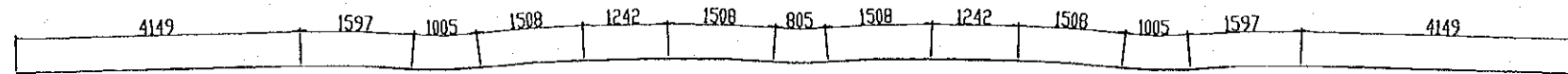
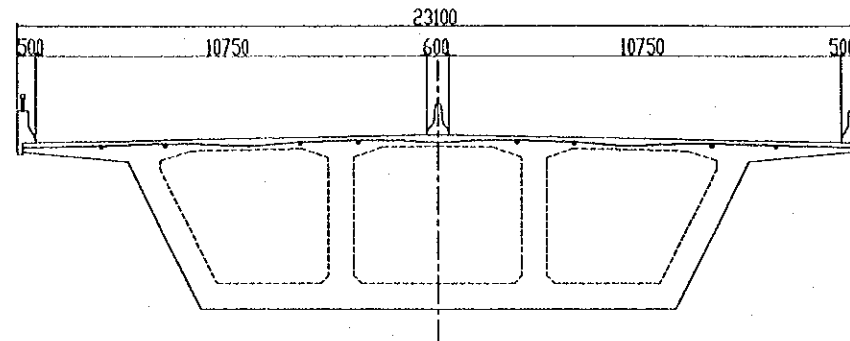
(C1) L=131174 (19S15.2B)



(C2) L=83055 (19S15.2B)

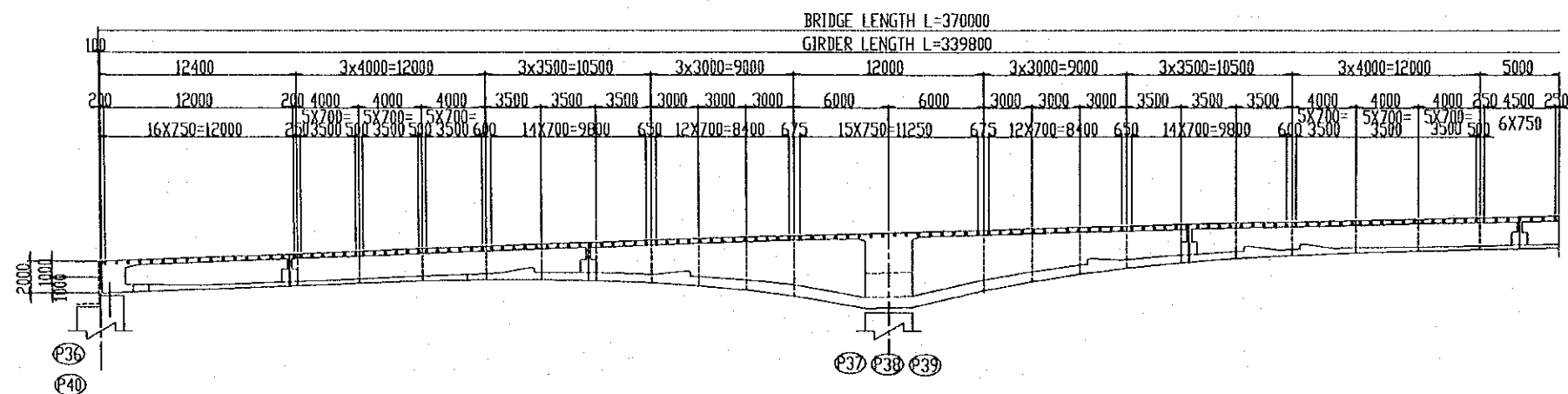
| | | | | | | | | | |
|--|--|---|---|-----------|---------------------------|----------------------------|---------------------------|--|-----------------------|
| PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | IMPLEMENTATION AGENCY  JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | JICA STUDY TEAM  NIPPON KOEI CO.,LTD. | NAME | PREPARED BY S. Kiguchi | CHECKED BY K. Matsumoto | APPROVED BY K. Enomoto | DRAWING TITLE SUB STREAM BRIDGE SUPER STRUCTURE PC TENDON ARRANGEMENT OF GIRDER (7) | DWG NO. P2/AS/0100 |
| | | | | SIGNATURE | <i>S. Kiguchi</i> | <i>K. Matsumoto</i> | <i>K. Enomoto</i> | | |
| | | | | DATE | 20/9/2000 | 29/9/2000 | 5/10/2000 | | |

SCALE 1:100



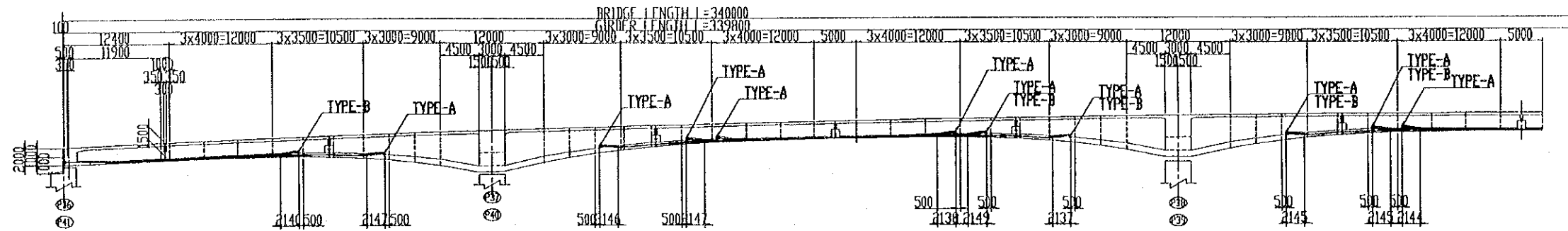
L=22.823
1T21.8
2.482 kg/m

SCALE 1:400

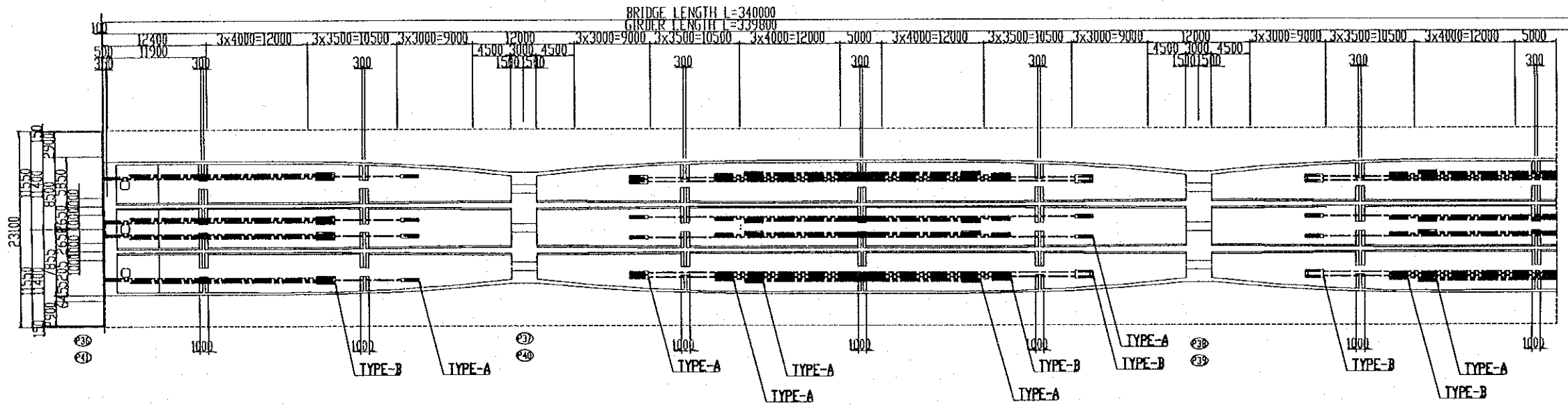


| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|---|---|---------------------------|---------------------------|---|-------------------------|--|------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | (NK) NIPPON KOEI CO.,LTD. | S. Kiguchi | K. Matsumoto | K. Enomoto | SUB STREAM BRIDGE SUPER STRUCTURE PC TENDON ARRANGEMENT OF DIAPHRAGM | P2/AS/0110 |
| | | | | NAME SIGNATURE DATE | S. Kiguchi K. Matsumoto 20/9/2000 | K. Enomoto 5/10/2000 | | |

SCALE 1:600



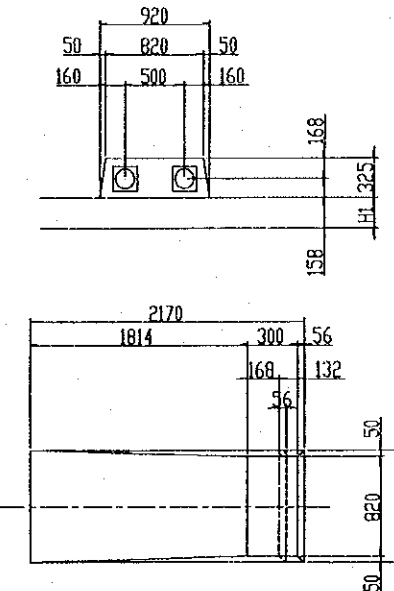
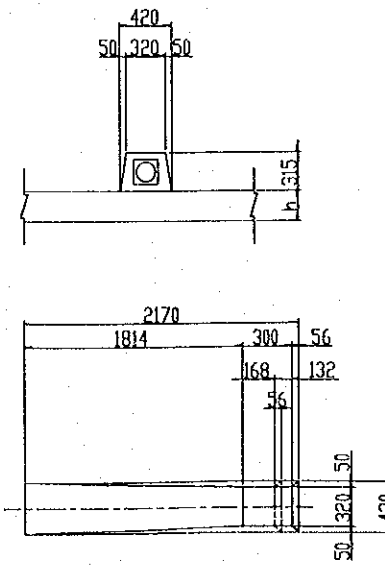
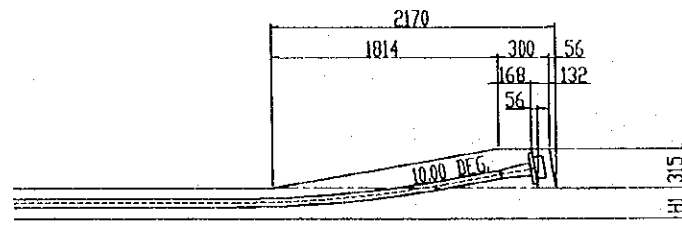
MARKING DIAGRAM



SIDE ELEVATION

TYPE-A

TYPE-B

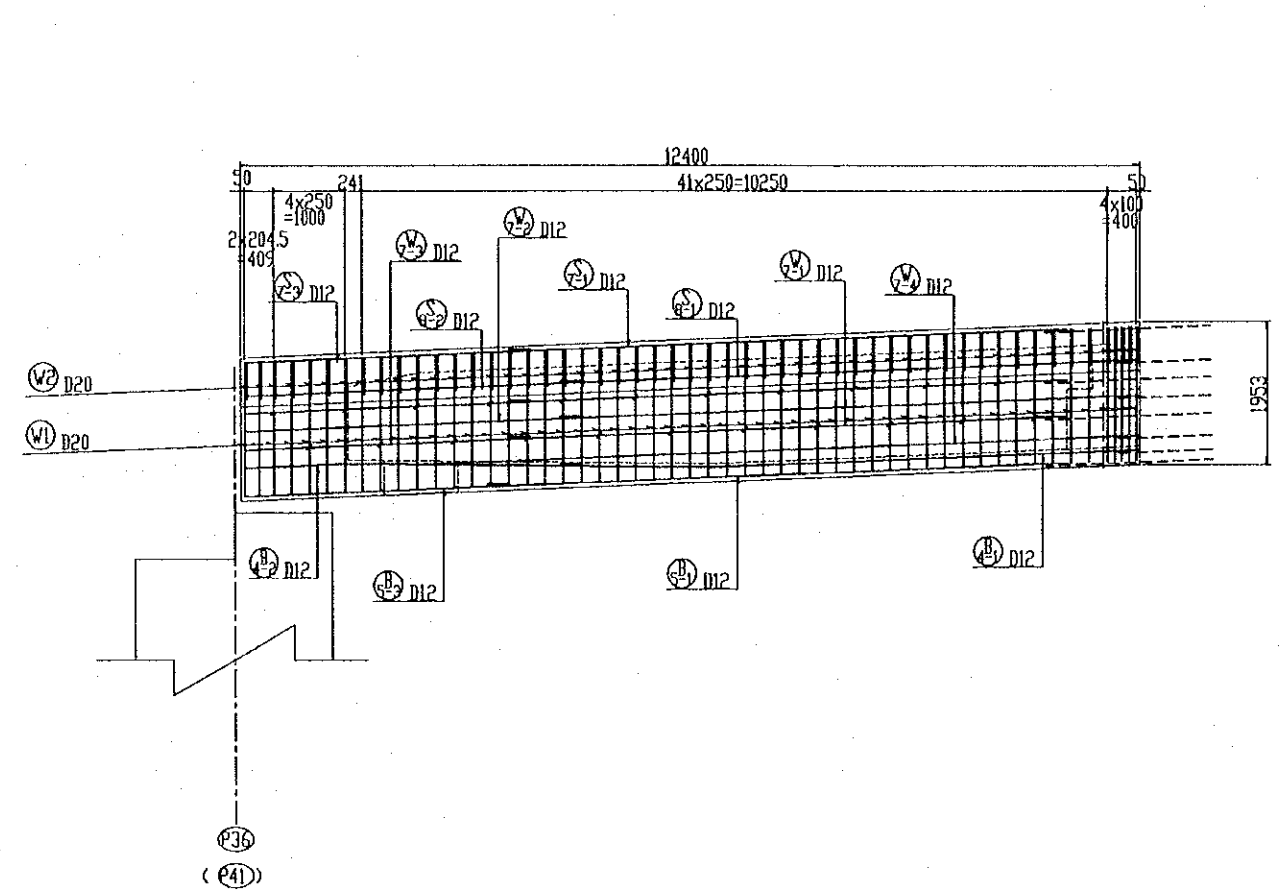
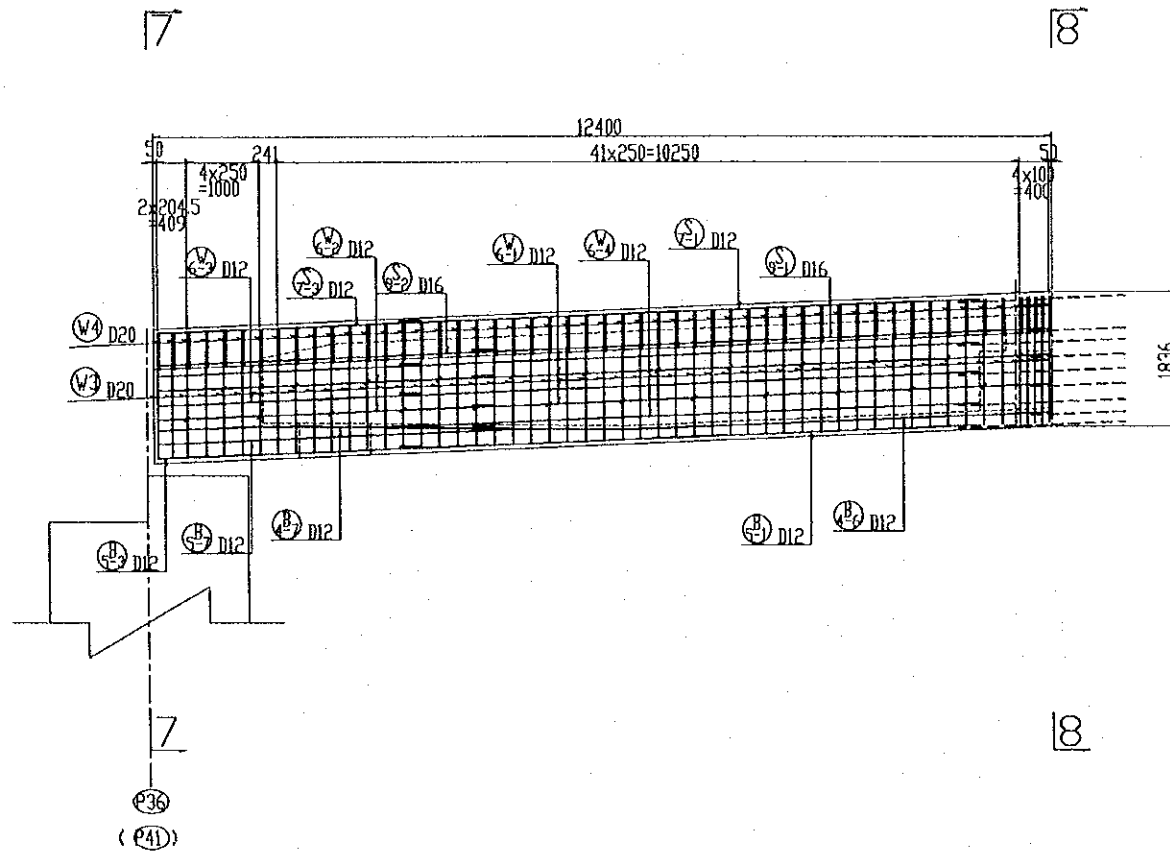


| | S302 | S405 S407 | S408 | S502 |
|----|------|--------------|------|------|
| H1 | 424 | 326 | 326 | 424 |
| H2 | 423 | 325 | 325 | 423 |
| H3 | 410 | 314 | 314 | 410 |

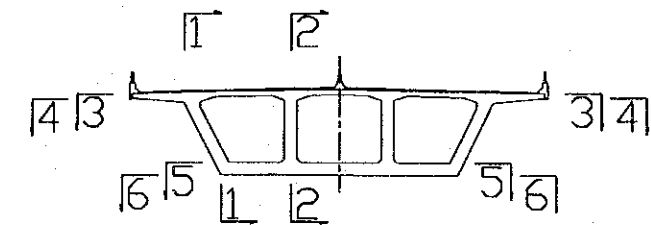
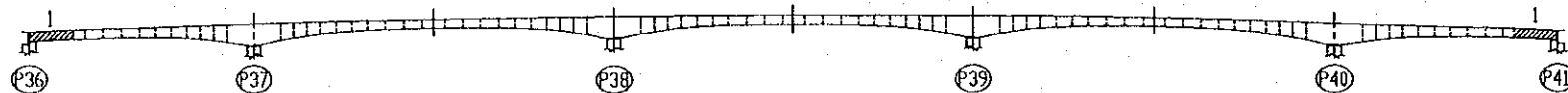
| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG. NO. |
|--|--|---|---------------------------|----------------------|------------------------|----------------------|---|------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | (NK) NIPPON KOEI CO.,LTD. | S. Kiguchi | K. Matsumoto | K. Enomoto | SUB STREAM BRIDGE SUPER STRUCTURE DETAIL OF ANCHORAGE | P2/AS/0120 |
| | | | | SIGNATURE S. Kiguchi | SIGNATURE K. Matsumoto | SIGNATURE K. Enomoto | | |
| | | | | DATE 20/9/2000 | DATE 29/9/2000 | DATE 5/10/2000 | | |

1-1
SCALE 1:100

2-2
SCALE 1:100



MARKING DIAGRAM

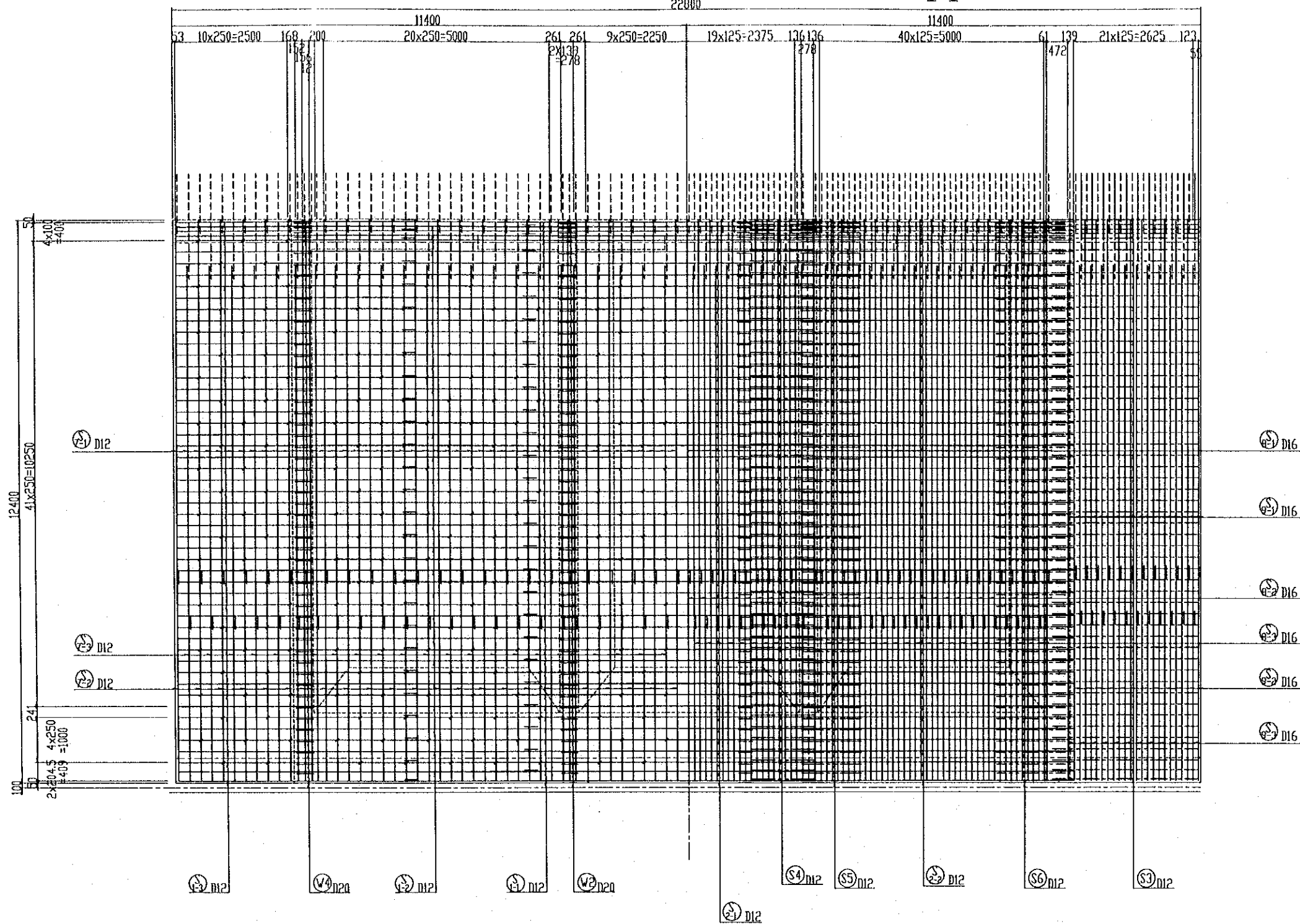


| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|--|---|---------------------------|-------------|--------------|-------------|---|------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | (NK) NIPPON KOEI CO.,LTD. | S. Kiguchi | K. Matsumoto | K. Enomoto | SUB STREAM BRIDGE SUPER STRUCTURE BAR ARRANGEMENT OF GIRDER (1) | P2/AS/0130 |
| | | | | SIGNATURE | SIGNATURE | SIGNATURE | | |
| | | | | DATE | DATE | DATE | | |
| | | | | 20/9/2000 | 29/9/2000 | 5/10/2000 | | |

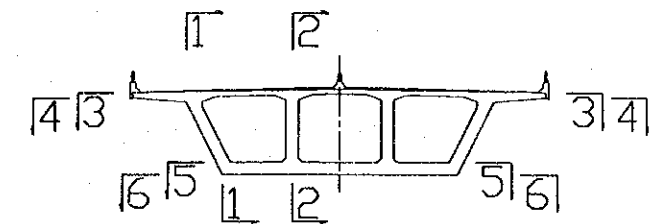
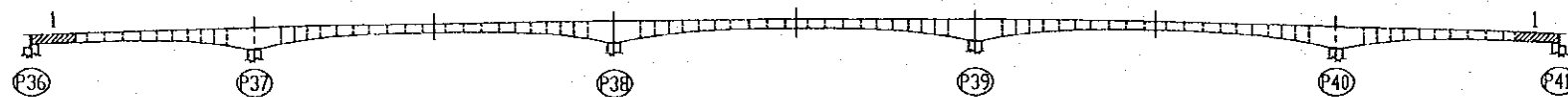
SCALE 1:100

3-3

4-4



MARKING DIAGRAM

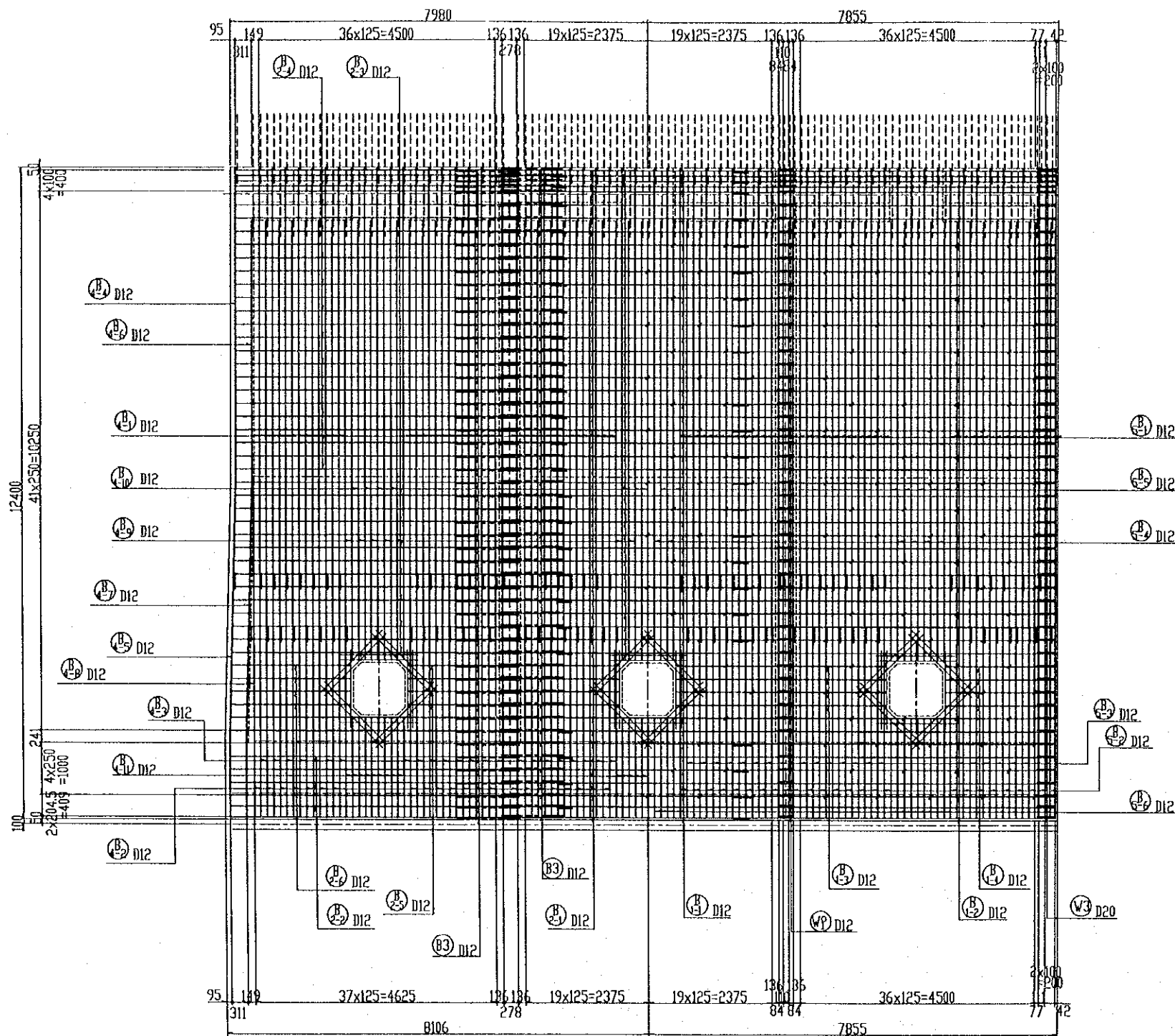


| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|---|---|-------------------------------|---|---|---|---|------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | (NK) NIPPON KORI CO., LTD. | NAME: S. Kiguchi SIGNATURE: <i>S. Kiguchi</i> DATE: 20/9/2000 | NAME: K. Matsumoto SIGNATURE: <i>K. Matsumoto</i> DATE: 29/9/2000 | NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000 | SUB STREAM BRIDGE SUPER STRUCTURE BAR ARRANGEMENT OF GIRDER (2) | P2/AS/0140 |

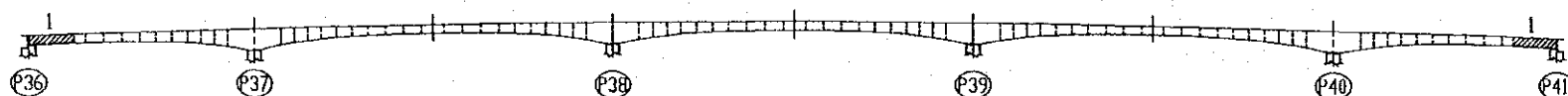
SCALE 1:100

5-5

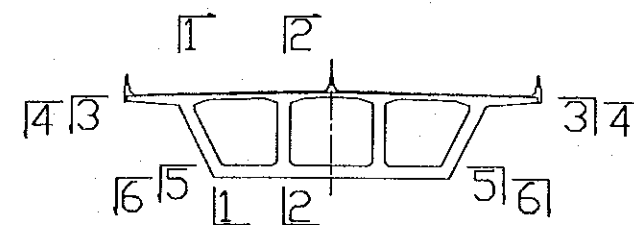
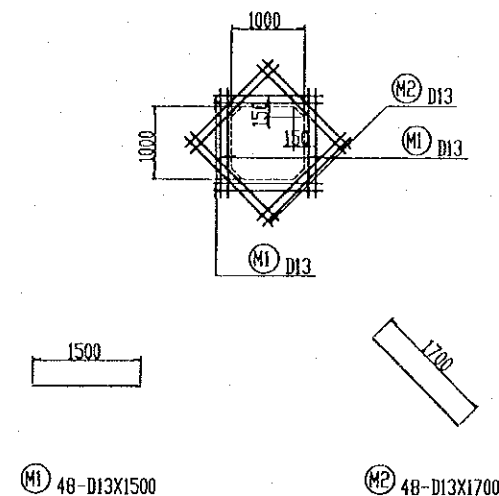
6-6



MARKING DIAGRAM



DETAIL OF MANHOLE



| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|---|---|----------------------------|--|--|--|---|------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | (NR) NIPPON KOEI CO., LTD. | NAME S. Kiguchi SIGNATURE S. Kiguchi DATE 20/9/2000 | NAME K. Matsumoto SIGNATURE K. Matsumoto DATE 29/9/2000 | NAME K. Enomoto SIGNATURE K. Enomoto DATE 5/10/2000 | SUB STREAM BRIDGE SUPER STRUCTURE BAR ARRANGEMENT OF GIRDER (3) | P2/AS/0150 |