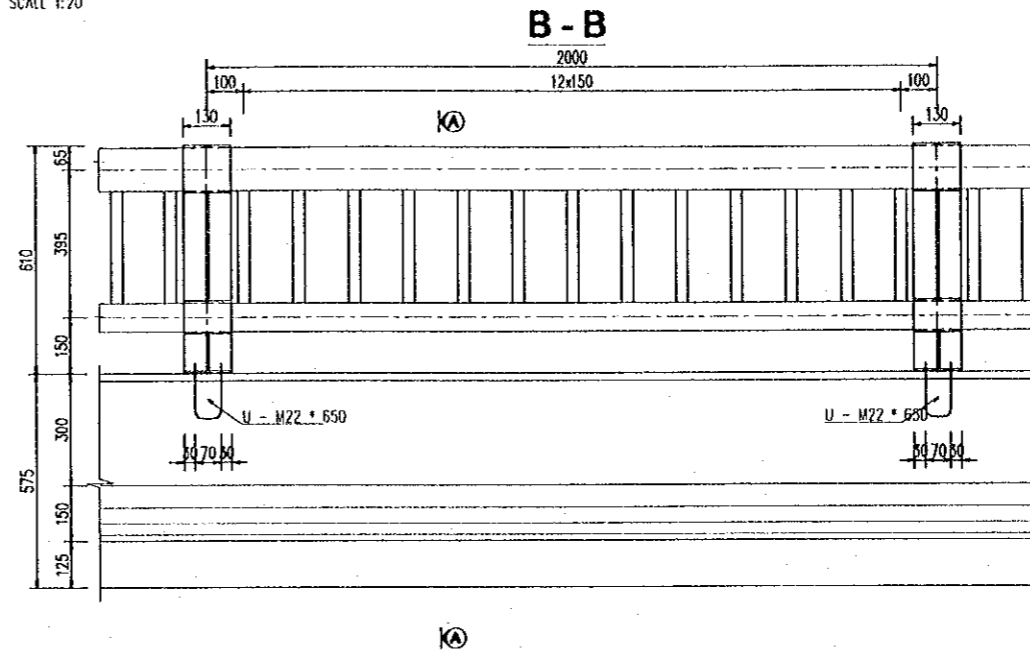
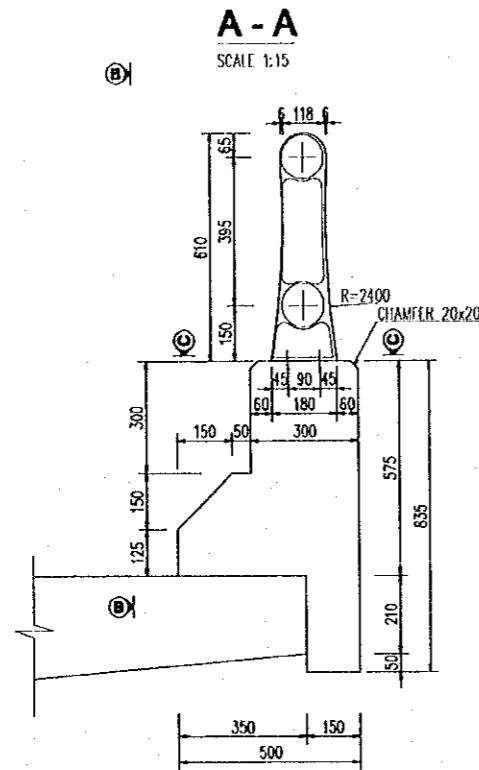


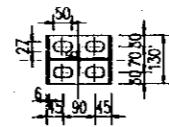
IV. MISCELLANEOUS

DETAIL OF PARAPET AND RAILING

SCALE 1:20



C - C

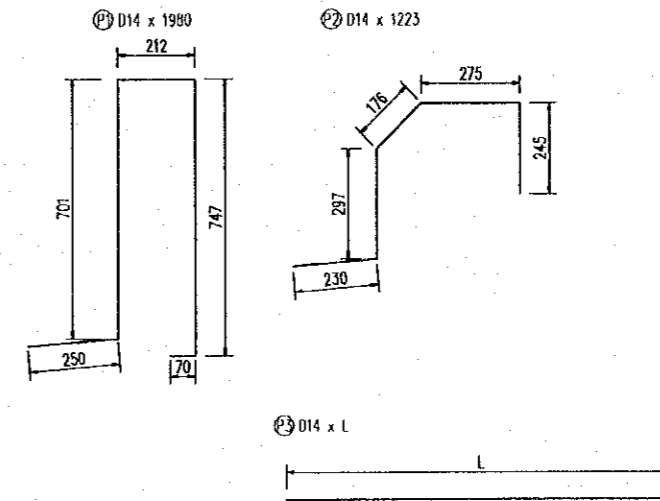
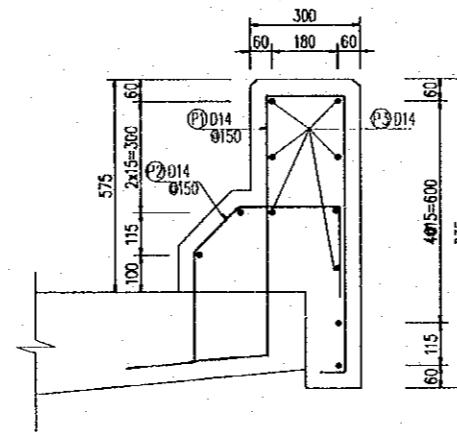


NOTES:

1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR4/0030.
2. UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED FOLLOWED BY SPECIFICATION PAINT PROTECTION SYSTEM.

REINFORCEMENT OF PARAPET

SCALE 1:20



QUANTITY OF RAILING (PER 10M LONG)

| ITEM | SIZE | MATERIAL | UNIT WEIGHT | QUANTITY | UNIT | WEIGHT(KG) | REMARK |
|-----------------|-------------|----------|-------------|----------|------|------------|-------------|
| POST | 610*180*130 | FCD-450 | 18.1 | 5 | EACH | 90.5 | GALVANIZING |
| UPPER RAIL | 114.3*3.5t | STK-400 | 19.5 | 10 | M | 195.0 | |
| BOTTOM RAIL | 76.3*2.5t | STK-400 | 5.77 | 10 | M | 57.7 | |
| CONNECTION | 490*300 | STK-400 | 2.13 | 1.67 | EACH | 3.6 | |
| | 67.5*300 | STK-400 | 1.4 | 1.67 | EACH | 2.3 | |
| ANCHOR BOLT | M22-650 | SS-400 | 2.9 | 20 | EACH | 58.0 | |
| VERTICAL MEMBER | F86*32*300 | SS-400 | 2.09 | 65 | EACH | 135.9 | |

LIST OF REINFORCEMENT OF PARAPET (PER 10M LONG)

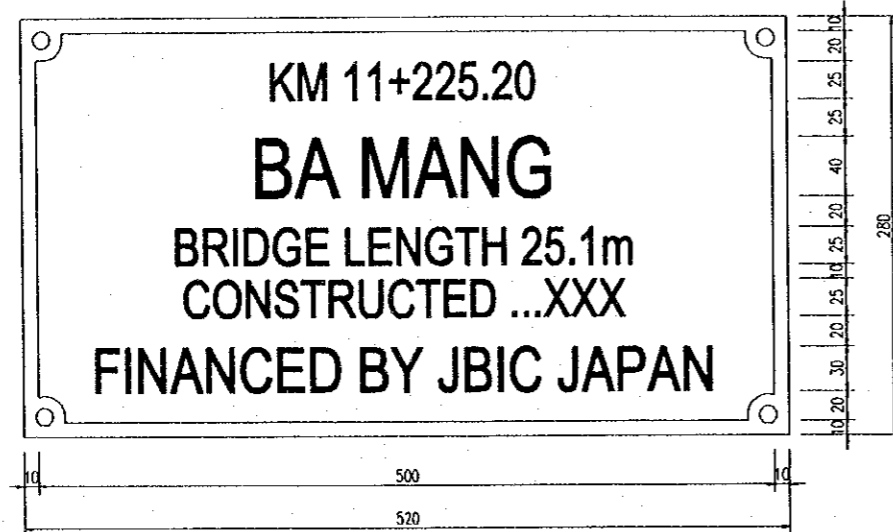
| NAME | DIAMETER (mm) | LENGTH (mm) | NUMBER | U. WEIGHT (kg/m) | WEIGHT (kg) |
|--------------|---------------|-------------|--------|------------------|-------------|
| P1 | 14 | 1980 | 68 | 1,208 | 162.7 |
| P2 | 14 | 1223 | 68 | 1,208 | 100.5 |
| P3 | 14 | 10000 | 11 | 1,208 | 132.9 |
| D14 CONCRETE | | | | 396.1 | (kg) |
| | | | | 2.55 | m3 |

| 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 | NIPPON KOEI CO.,LTD. | T. Kametani | K. Matsumoto | K. Enomoto | BA MANG BRIDGE MISCELLANEOUS DETAILS OF PARAPET AND RAILINGS | P3/BR4/0270 |
| | | | | DATE: 20/9/2000 | DATE: 29/9/2000 | DATE: 5/10/2000 | | |

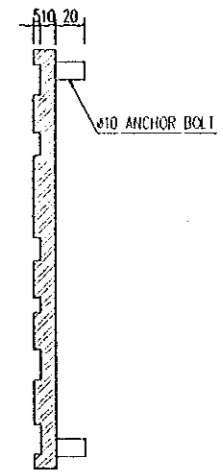
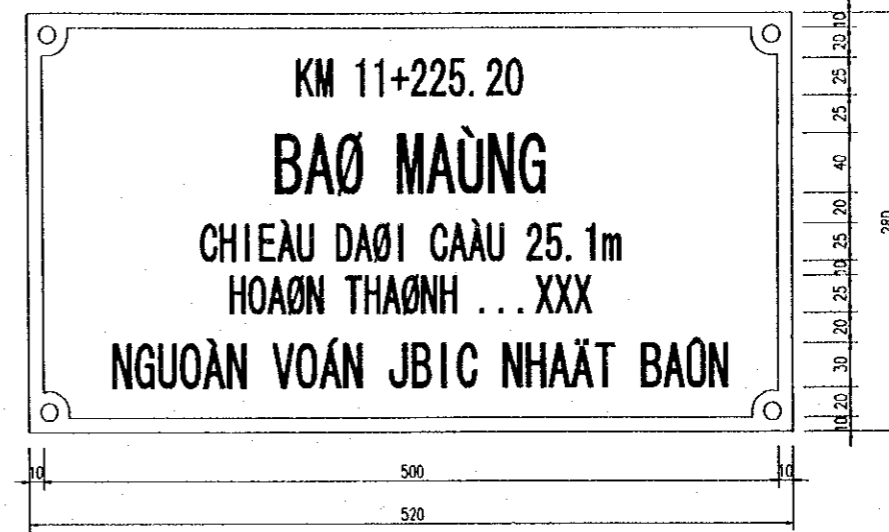
DETAIL OF BRIDGE NAME PLAQUE

SCALE 1:5

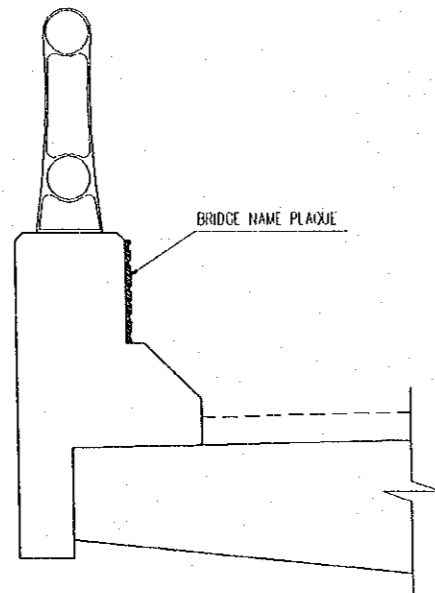
DETAIL 1



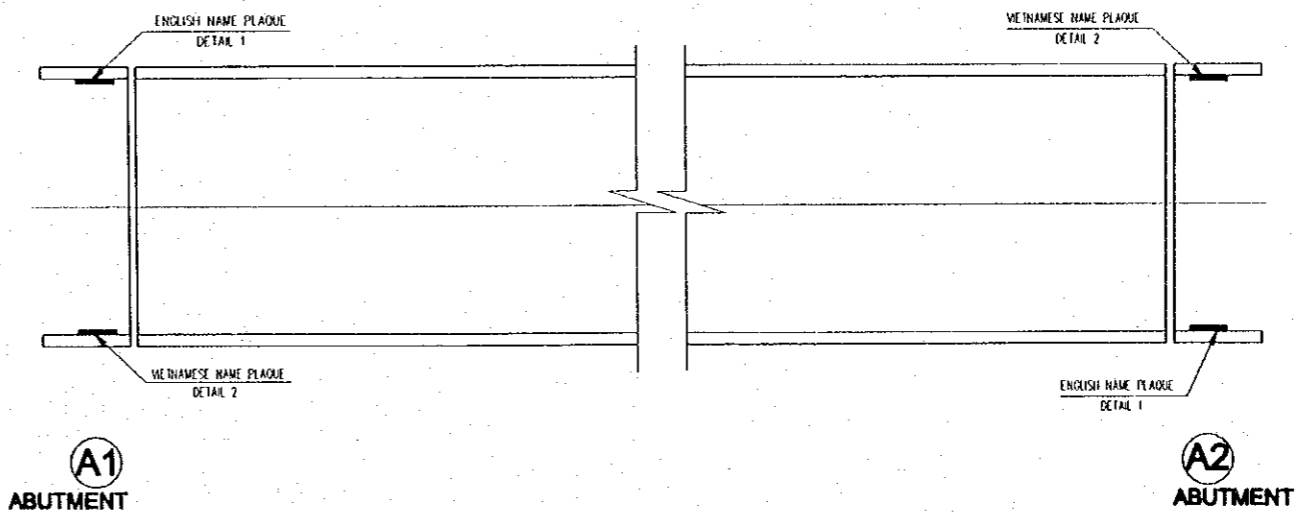
DETAIL 2



LOCATION OF NAME PLAQUE



PLAN

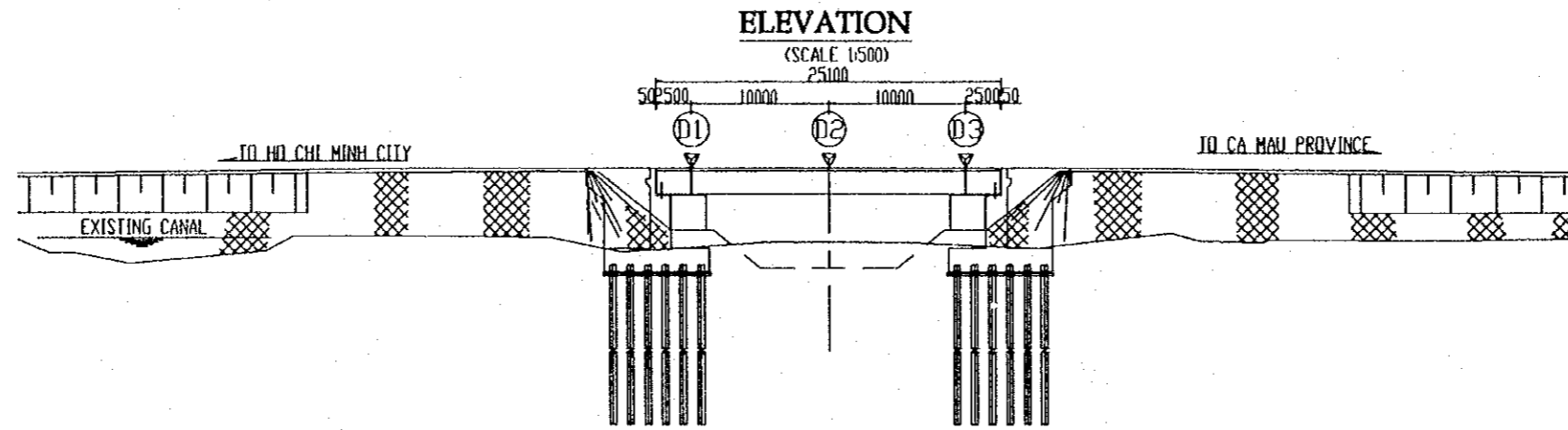


NOTES

1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING No.P3/BR4/0030.
2. MATERIAL SHALL BE BRONZE.
3. THE DATE TO BE ENTERED AGAINST CONSTRUCTED SHALL BE AS INSTRUCTED BY THE ENGINEER.
4. ONE PLATE SHALL BE WRITTEN IN ENGLISH AND ONE IN VIETNAMESE.
THE EXACT FIXING LOCATIONS TO BE INSTRUCTED BY THE ENGINEER.

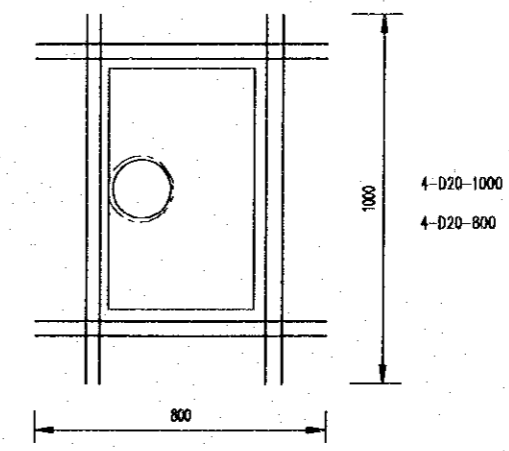
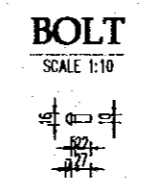
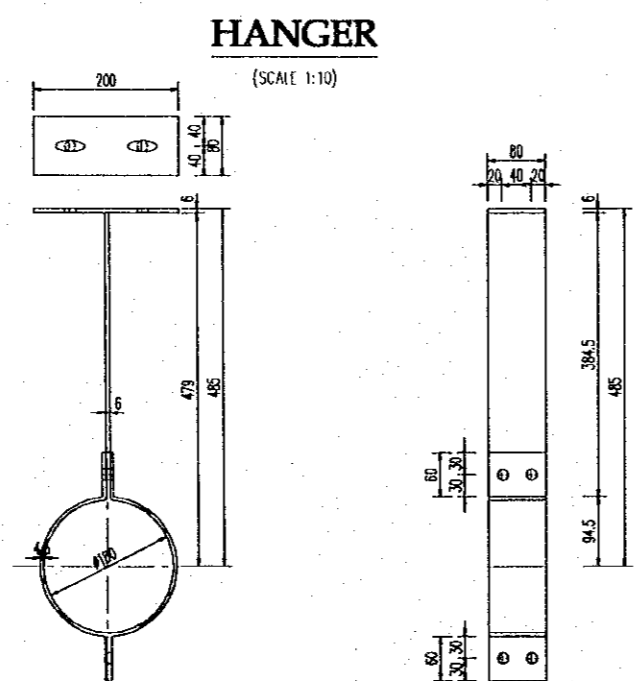
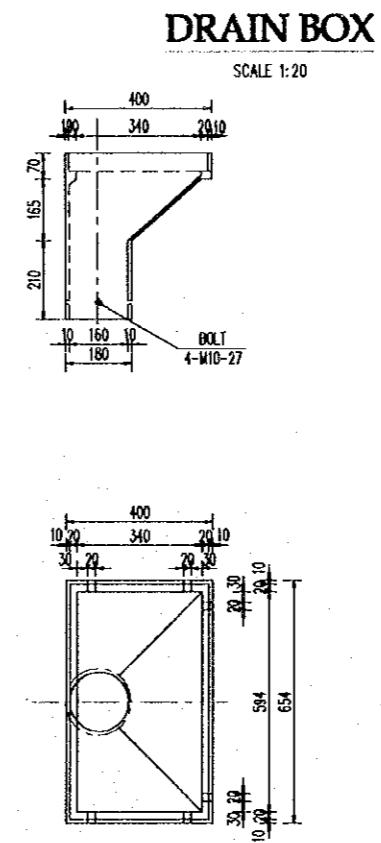
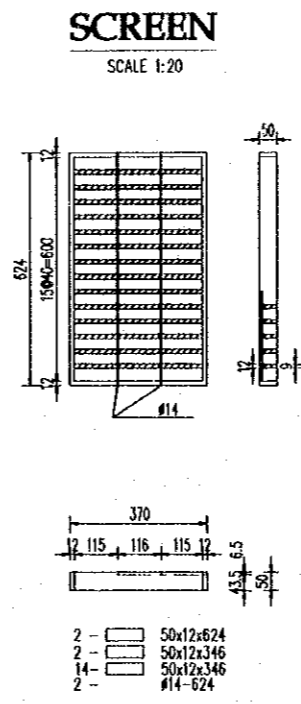
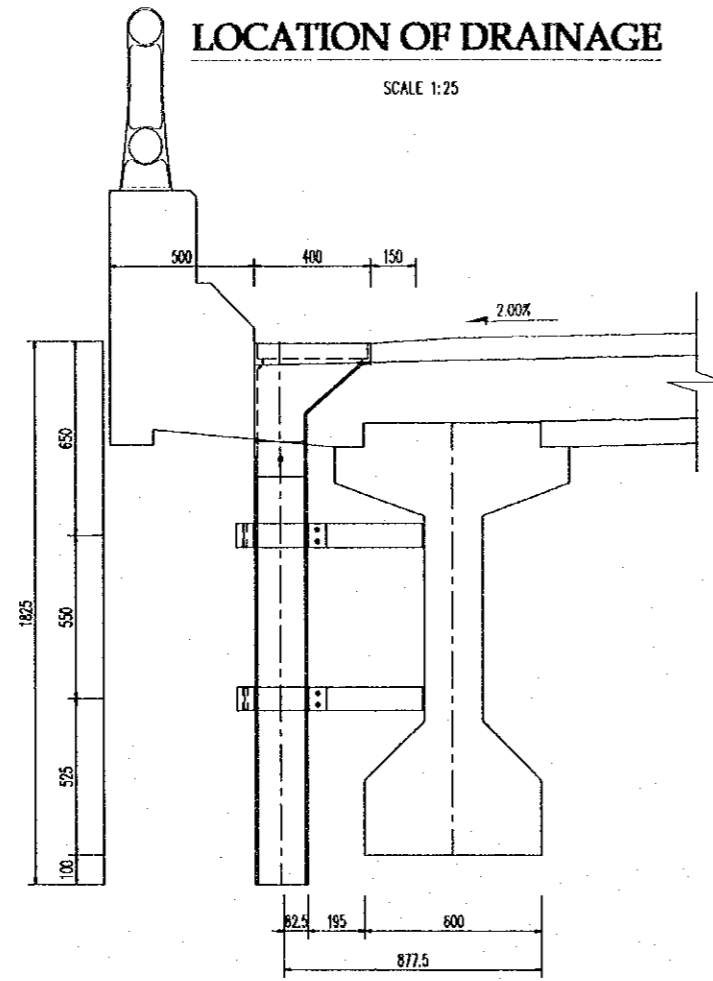
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|--|--|---|---------------------------|--|--|--|---|----------------|
| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
| DETAILED DESIGN OF THE CAN THO 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: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000 | K. Matsumoto [Signature] 29/9/2000 | K. Enomoto [Signature] 5/10/2000 | BA MANG BRIDGE MISCELLANEOUS BRIDGE NAME PLAQUE | P3/BR4/0280 |

DRAINAGE AND LIGHTING POLES LAYOUT



| 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 KOBİ CO.,LTD. | NAME T. Kametani | NAME K. Matsumoto | NAME K. Enomoto | BAMANG BRIDGE MISCELLANEOUS DRAINAGE LAYOUT | P3/BRA/0290 |
| | | | | SIGNATURE | SIGNATURE | SIGNATURE | | |
| | | | | DATE 20/9/2000 | DATE 29/9/2000 | DATE 5/10/2000 | | |

DETAILS OF DRAINAGE ON BRIDGE



NOTES

FOR STANDARD STRUCTURAL NOTES SEE DRAWING P3/BR4/0050.



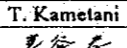
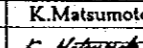
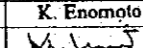
| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|--|--|-----------------------------|---------------------------------|----------------------------------|--------------------------------|---|--------------------|
| 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 T. Kametani | NAME K. Matsumoto | NAME K. Enomoto | BA MANG BRIDGE MISCELLANEOUS DETAILS OF DRAINAGE ON BRIDGE | P3/BR4/0300 |
| | | | | SIGNATURE <i>T. Kametani</i> | SIGNATURE <i>K. Matsumoto</i> | SIGNATURE <i>K. Enomoto</i> | | |
| | | | | DATE 20/9/2000 | DATE 29/9/2000 | DATE 5/10/2000 | | |

QUANTITY TABLE OF MISCELLANEOUS

| ITEM | CLASS | WORK ITEM | UNIT | QUANTITY |
|---------------|---------|-----------|------|----------|
| CONCRETE | CLASS E | PARAPET | M3 | 25.53 |
| FORM | | PARAPET | M2 | 160.20 |
| RE-BAR | | PARAPET | TON | 3.960 |
| STEEL RAILING | | | M | 119.60 |
| DRAINAGE | | POI | SET | 6 |
| | | PIPE #180 | M | 10.44 |

NOTES:

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR4/0030.



| 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: T. Kametani SIGNATURE:  DATE: 20/9/2000 | NAME: K. Matsumoto SIGNATURE:  DATE: 29/9/2000 | NAME: K. Enomoto SIGNATURE:  DATE: 5/10/2000 | BA MANG BRIDGE MISCELLANEOUS QUANTITY TABLE OF MISCELLANEOUS | P3/BR4/0310 |

P3/BR5 CAI NAI BRIDGE

I. GENERAL



DRAWING LIST

| NO. | CODE | DRAWING NAME |
|-----------------------|-------------|--|
| I | | |
| GENERAL | | |
| 1 | P3/BR5/0010 | DRAWING LIST |
| 2 | P3/BR5/0020 | ABBREVIATIONS AND SYMBOLS |
| 3 | P3/BR5/0030 | STRUCTURAL NOTES |
| 4 | P3/BR5/0040 | LOCATION MAP |
| 5 | P3/BR5/0050 | COORDINATES OF BRIDGE |
| 6 | P3/BR5/0060 | GENERAL VIEW - SHEET 1 |
| 7 | P3/BR5/0070 | GENERAL VIEW - SHEET 2 |
| 8 | P3/BR5/0080 | QUANTITY TABLE OF BRIDGE |
| II | | |
| SUPERSTRUCTURE | | |
| 9 | P3/BR5/0090 | GIRDER LAYOUT |
| 10 | P3/BR5/0100 | GENERAL VIEW OF *1* GIRDER L=28.0M. |
| 11 | P3/BR5/0110 | GENERAL VIEW OF *1* GIRDER L=37.0M. |
| 12 | P3/BR5/0120 | TENDONS ARRANGEMENT OF *1* GIRDER L=28.0M. |
| 13 | P3/BR5/0130 | TENDONS ARRANGEMENT OF *1* GIRDER L=37.0M. |
| 14 | P3/BR5/0140 | TENDONS ARRANGEMENT OF DIAPHRAGMS. |
| 15 | P3/BR5/0150 | REINFORCEMENT OF *1* GIRDER L=28.0M |
| 16 | P3/BR5/0160 | REINFORCEMENT OF *1* GIRDER L=37.0M |
| 17 | P3/BR5/0170 | REINFORCEMENT OF DIAPHRAGMS - SHEET 1 |
| 18 | P3/BR5/0180 | DECK SLAB REINFORCEMENT - SHEET 1 |
| 19 | P3/BR5/0190 | DECK SLAB REINFORCEMENT - SHEET 2 |
| 20 | P3/BR5/0200 | DECK SLAB REINFORCEMENT - SHEET 3 |
| 21 | P3/BR5/0210 | DECK SLAB REINFORCEMENT - SHEET 4 |
| 22 | P3/BR5/0220 | DETAILS OF BEARINGS. |
| 23 | P3/BR5/0230 | DETAILS OF EXPANSION JOINTS |
| 24 | P3/BR5/0240 | QUANTITY TABLE OF SUPERSTRUCTURE |
| III | | |
| ABUTMENTS | | |
| 25 | P3/BR5/0250 | GENERAL VIEW OF ABUTMENTS A1 & A2 |
| 26 | P3/BR5/0260 | ABUTMENTS A1&A2 RC PILE 450 L=40.0m SHEET-1 |
| 27 | P3/BR5/0270 | ABUTMENTS A1&A2 RC PILE 450 L=40.0m SHEET-2 |
| 28 | P3/BR5/0280 | REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 1 |
| 29 | P3/BR5/0290 | REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 2 |
| 30 | P3/BR5/0300 | REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 3 |
| 31 | P3/BR5/0310 | EARTHWORKS SLOPE PROTECTION - SHEET 1 |
| 32 | P3/BR5/0320 | EARTHWORKS SLOPE PROTECTION - SHEET 2 |
| 33 | P3/BR5/0330 | DETAILS OF APPROACH SLAB |
| 34 | P3/BR5/0340 | QUANTITY TABLE OF ABUTMENTS |
| IV | | |
| PIERS | | |
| 35 | P3/BR5/0350 | GENERAL VIEW OF PIERS P1 & P2 |
| 36 | P3/BR5/0360 | PIER P1- BORED PILE DETAILS , L=66.0M |
| 37 | P3/BR5/0370 | PIER P2- BORED PILE DETAILS , L=55.0M |
| 38 | P3/BR5/0380 | REINFORCEMENT OF PIERS P1 & P2 - SHEET 1 |
| 39 | P3/BR5/0390 | REINFORCEMENT OF PIERS P1 & P2 - SHEET 2 |
| 40 | P3/BR5/0400 | PIERS PROTECTION |
| 41 | P3/BR5/0410 | QUANTITY TABLE OF PIERS |
| V | | |
| MISCELLANEOUS | | |
| 42 | P3/BR5/0420 | DETAILS OF PARAPET AND RAILINGS |
| 43 | P3/BR5/0430 | BRIDGE NAME PLAQUE |
| 44 | P3/BR5/0440 | DRAINAGE AND LIGHTING POLES LAYOUT |
| 45 | P3/BR5/0450 | DETAILS OF DRAINAGE ON BRIDGE |
| 46 | P3/BR5/0460 | DETAILS OF LIGHTING POLE BASES |
| 47 | P3/BR5/0470 | QUANTITY TABLE OF MISCELLANEOUS WORKS |

| 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 SIGNATURE DATE | | | CAI NAI BRIDGE GENERAL DRAWING LIST | P3/BR5/0010 |

ABBREVIATIONS AND SYMBOLS

| | | | |
|----------|--------------------------------|----------------|--|
| A | PARAMETER OF CLOTHOID CURVE | I.P | POINT OF INTERSECTION |
| ⊙ | AT | KG | KILOGRAM |
| ABUT | ABUTMENT | KM | KILOMETER |
| AC | ASPHALT CONCRETE | KPH | KILOMETER PER HOUR |
| APPR | APPROACH | L | LEGNTH OF CURVE WITH SPIRAL |
| ASPH | ASPHALT | LC | LENGTH OF CIRCULAR CURVE |
| & | AND | LS | LENGTH OF SPIRAL CURVE |
| A > B | A IS LARGER THAN B | LVC | LENGTH OF VERTICAL CURVE |
| BOR | BORING | LIN.M | LINEAR METER |
| BR | BRIDGE | M | METER |
| BX | BOX CULVERT | M ² | SQUARE METER |
| C | CUT | M ³ | CUBIC METER |
| CTC | CENTER TO CENTER | MAX | MAXIMUM |
| Ⓢ | CENTERLINE | MIN | MINIMUM |
| CM | CENTIMETER | MOV | MOVABLE |
| CONC | CONCRETE | N.G.L | NATURAL GROUND LEVEL |
| CONST | CONSTRUCTION | OV | OVER BRIDGE |
| CONT | CONTINUOUS | % | PERCENT |
| C.S | CIRCULAR CURVE TO SPIRAL CURVE | P | PIPE CULVERT |
| CU.M | CUBIC METER | PC | BEGINNING POINT OF SIMPLE CURVE |
| DIA or ⌀ | DIAMETER | PE.W | PARAPET WALL |
| DC | DRAINAGE CATCHBASIN | P.C | PRESTRESSED CONCRETE |
| DI | DRAINAGE INLET | P/C | PRE - CAST |
| DL | DATUM LINE | PH | PLAN HEIGHT |
| DO | DRAINAGE OUTLET | P.I | POINT OF INTERSECTION FOR HORIZONTAL ALIGNMENT |
| DS | DRAINAGE SIDEDITCH | PT | END OF POINT OF SIMPLE CURVE |
| DW | MORTARED RUBBLE PAVED WATERWAY | PC | PLATE COVER |
| E.P | END POINT | R | RADIUS OF CIRCULAR CURVE |
| E.V | MIDDLE ORDINATE VERTICAL CURVE | R.C | REINFORCED CONCRETE |
| EL | ELEVATION | R.O.W | RIGHT OF WAY |
| EQ | EQUAL | RW | RETAINING WALL |
| EXC | EXCAVATION | S.C | SPIRAL CURVE TO CIRCULAR CURVE |
| EXP | EXPANSION | S.P | SLOPE PROTECTION |
| F | FILL | S.P.P | STEEL PIPE PILE |
| FG | FINISHED GRADE | SQ | SQUARE |
| FIX | FIXED | SQ.M | SQUARE METER |
| FR | FRONTAGE ROAD | S.T | SPIRAL CURVE TO TANGENT |
| FTOF | FACE TO FACE | STA | STATION |
| G.F | GUARD FENCE | SM | STONE MASONRY |
| GR | GUARD RAIL | T | THICKNESS |
| GIR | GIRDER | T.S | TANGENT TO SPIRAL |
| H | HEIGHT | T.L | TANGENT LENGTH OF CIRCULAR CURVE |
| D.F.WL | DATUM FLOODED WATER LEVEL | To | TANGENT LENGTH OF SPIRAL |
| HWY | HIGHWAY | V | DESIGN SPEED IN KPH |
| i | GRADIENT | W | WIDTH |
| I.C | INTERCHANGE | X | EASTING COORDINATE IN METERS |

| 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 T. Kametani SIGNATURE <i>T. Kametani</i> DATE 20/9/2000 | K. Matsumoto <i>K. Matsumoto</i> 29/9/2000 | K. Enomoto <i>K. Enomoto</i> 5/10/2000 | CAI NAI BRIDGE GENERAL ABBREVIATIONS AND SYMBOLS | F3/BR5/0020 |

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 REFERED 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
 - PEDESTRIAN LOAD : 3.6 kN/M² - AASHTO LRFD 1998
 - BASIC WIND VELOCITY : 160 KM/H - AASHTO LRFD 1998
 - LATERAL SEISMIC RESPONSE COEFFICIENT : 0.12
 - VESSEL IMPACT : VIETNAMESE HIGHWAY BRIDGES STANDARDS 1979
 - TEMPERATURE RANGE : 17.7°C TO 36.7°C
 - UNIFORM TEMPERATURE : ±10°C
 - TEMPERATURE DIFFERENTIAL : 5°C

3. CONCRETE

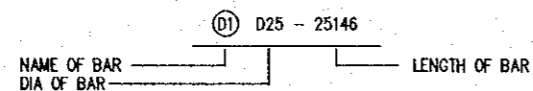
- 3.1. UNLESS OTHERWISE INDECATED CONCRETE SHALL BE OF THE FOLLOWING GRADES BASED ON 28 DAY CYLINDER STRENGTH f_c :

| 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 $f_y(\min)$ 250 MPa AND HIGH YIELD DEFORMED BARS WITH YIELD STRENGTH NOT LESS THAN $f_y(\min)$ 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. REINFORCEMENT (CONTINUED)

- 4.6. 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
- 4.7. 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 +/-5MM

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 | 1675 | 1650 |
| TRANSVERSE CABLE | 3S12.7 | 1860 | 1675 | 415 |

- 5.2. PRESTRESSED TENDONS SHALL BE FORMED FROM THE STRANDS OF 12.7mm 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.

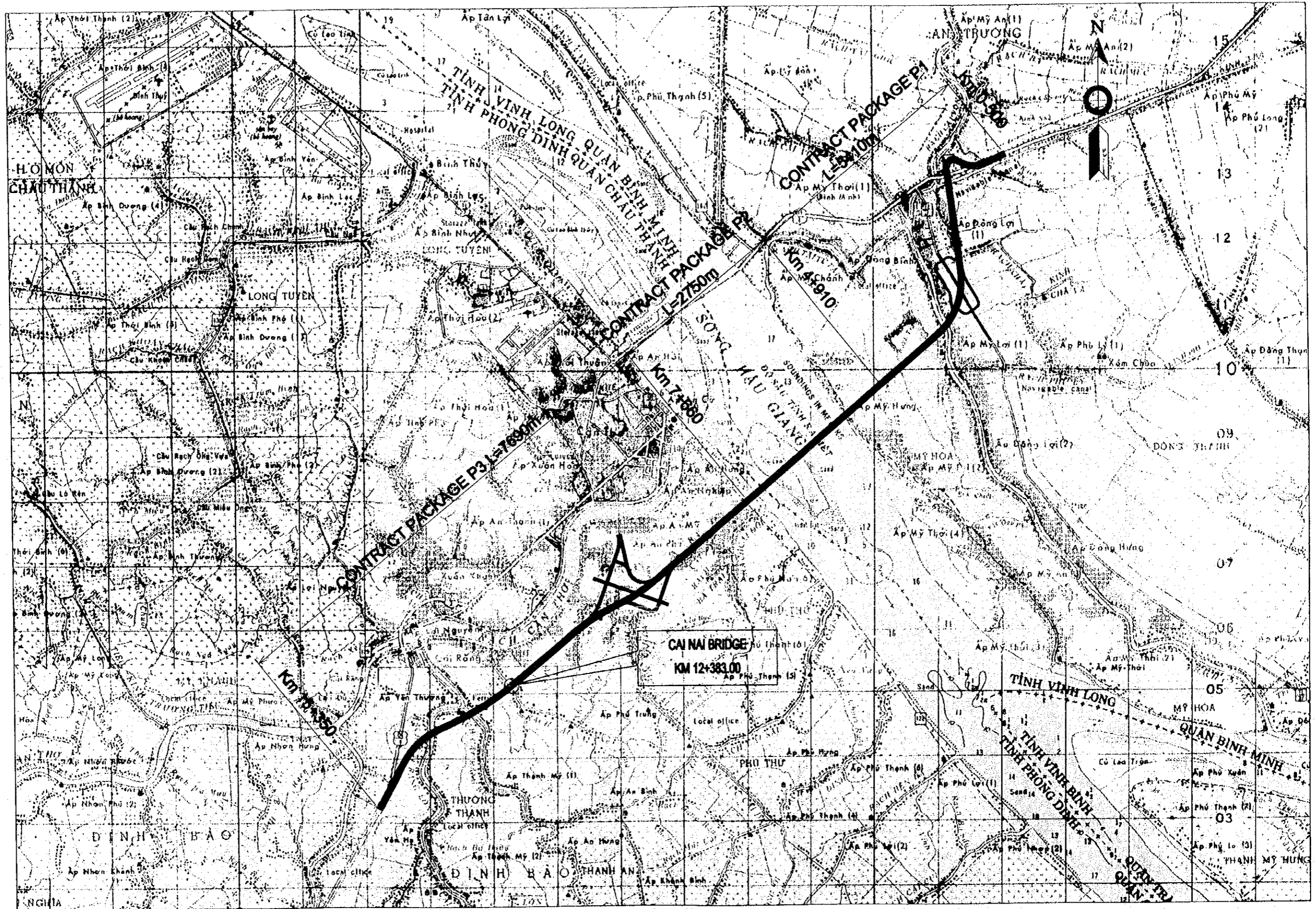
7. SUPERSTRUCTURE

- 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 INTERNAL PRESTRESSING WITH THE FOLLOWING PARAMETERS:

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

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

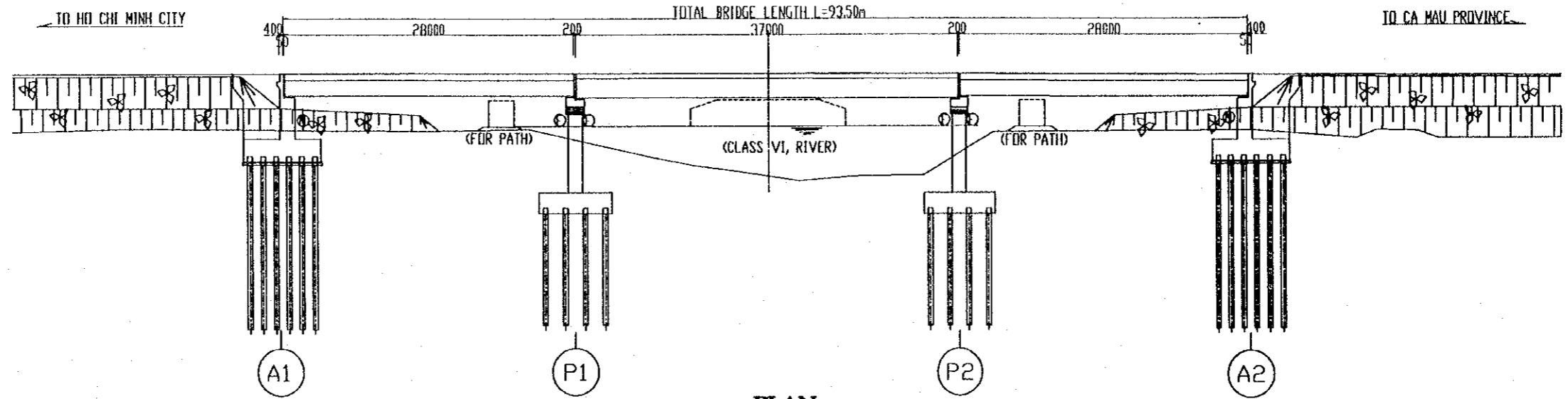
| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|---|---|----------------------|-------------|--------------|-------------|---|-------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | NIPPON KOEI CO.,LTD. | T. Kametani | K. Matsumoto | K. Enomoto | CAI NAI BRIDGE GENERAL STRUCTURAL NOTES | P3/BR5/0030 |
| | | | | NAME | | | | |
| | | | | SIGNATURE | | | | |
| | | | | DATE | 20/9/2000 | 29/9/2000 | 5/10/2000 | |



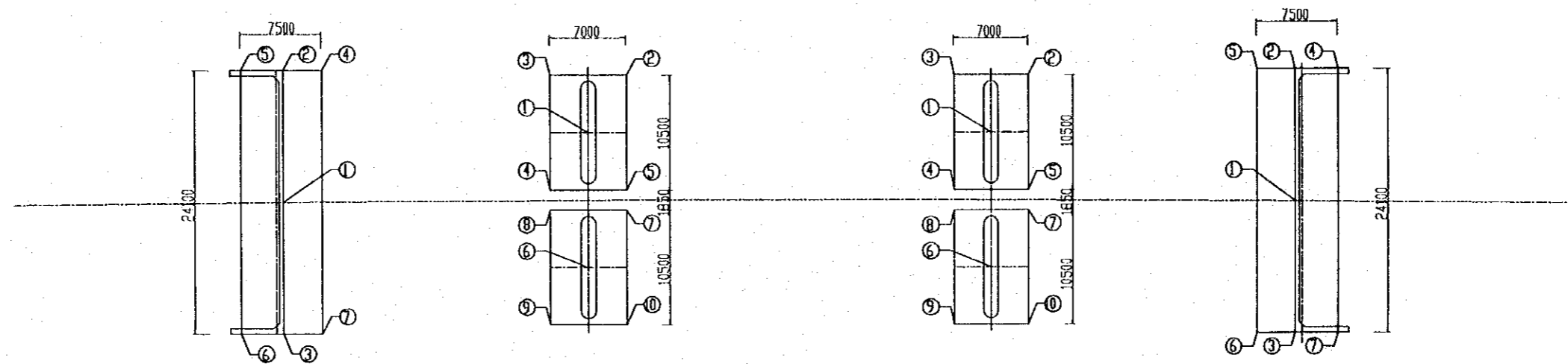
| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. | |
|--------------|-----------------------|------------------|-----------------|-------------|--------------------|--------------------|--------------------------------|-------------|--------------------|
| | | | | NAME | T. Kametani | K. Matsumoto | | | K. Enomoto |
| | | | | SIGNATURE | <i>[Signature]</i> | <i>[Signature]</i> | | | <i>[Signature]</i> |
| DATE | 20/9/2000 | 29/9/2000 | 5/10/2000 | | | | CAI NAI BRIDGE LOCATION MAP | P3/BR.50040 | |

SIDE ELEVATION

(SCALE 1:500)



PLAN
(SCALE 1:500)

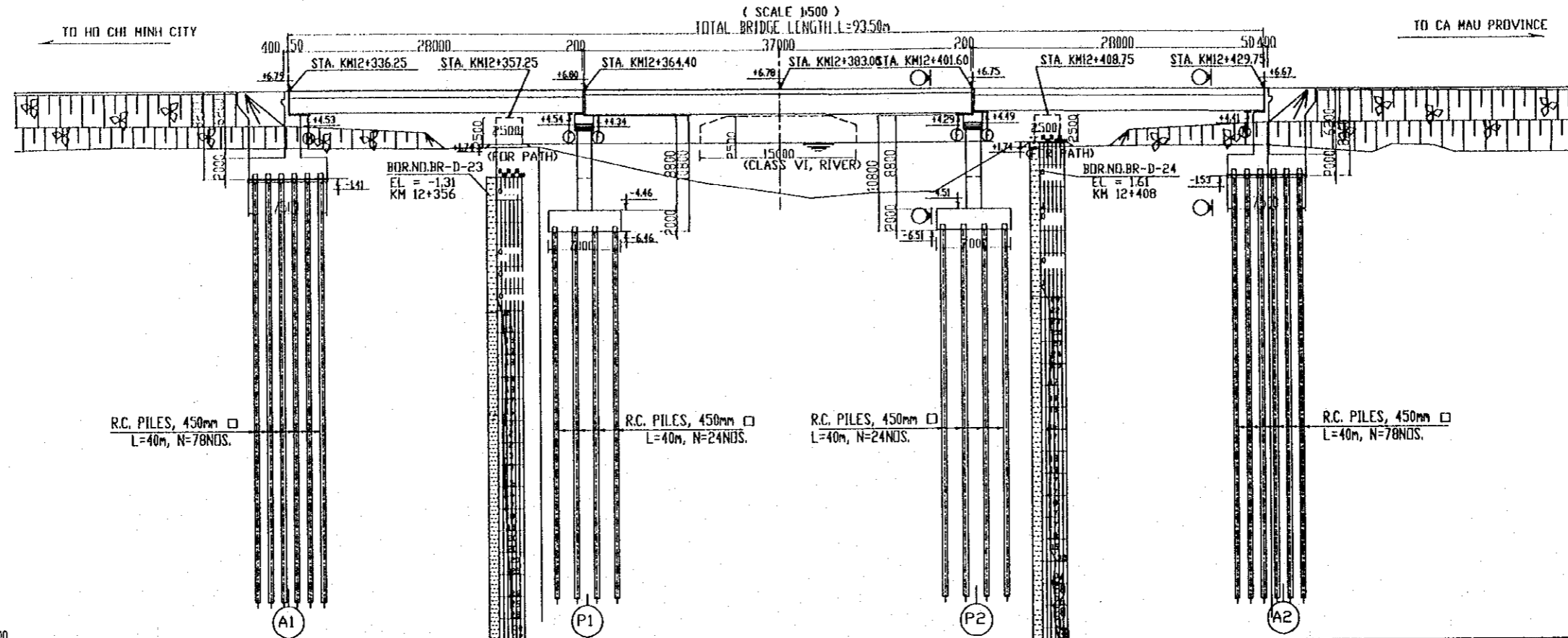


COORDINATES TABLE

| POINT | A1 | | P1 | | P2 | | A2 | |
|-------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| | N | E | N | E | N | E | N | E |
| 1 | 583956.889 | 1106030.776 | 583937.877 | 1106009.065 | 583907.804 | 1105987.167 | 583881.303 | 1105975.740 |
| 2 | 583963.986 | 1106021.037 | 583938.138 | 1106002.761 | 583908.066 | 1105980.863 | 583888.395 | 1105966.001 |
| 3 | 583949.799 | 1106040.520 | 583943.796 | 1106006.881 | 583913.724 | 1105984.984 | 583874.212 | 1105985.479 |
| 4 | 583961.072 | 1106018.923 | 583937.615 | 1106015.370 | 583907.543 | 1105993.472 | 583885.242 | 1105963.706 |
| 5 | 583967.135 | 1106023.338 | 583931.957 | 1106011.249 | 583901.885 | 1105989.351 | 583891.305 | 1105968.121 |
| 6 | 583952.948 | 1106042.820 | 583930.607 | 1106019.049 | 583900.535 | 1105997.151 | 583877.119 | 1105987.603 |
| 7 | 583946.885 | 1106038.405 | 583930.868 | 1106012.745 | 583900.796 | 1105990.847 | 583871.056 | 1105983.188 |
| 8 | | | 583936.526 | 1106016.865 | 583906.454 | 1105994.967 | | |
| 9 | | | 583930.346 | 1106025.353 | 583900.274 | 1106003.455 | | |
| 10 | | | 583924.687 | 1106021.233 | 583894.615 | 1105999.335 | | |

| | | | | | | | | |
|---|---|--|--|---|--|---|--|--------------------------------|
| 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. | PREPARED BY NAME: T. Kametani SIGNATURE: <i>T. Kametani</i> DATE: 20/9/2000 | CHECKED BY K. Matsumoto SIGNATURE: <i>K. Matsumoto</i> DATE: 29/9/2000 | APPROVED BY K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000 | DRAWING TITLE CAI NAI BRIDGE GENERAL COORDINATES OF BRIDGE | DWG NO. P3/1895/0058 |
|---|---|--|--|---|--|---|--|--------------------------------|

SIDE ELEVATION

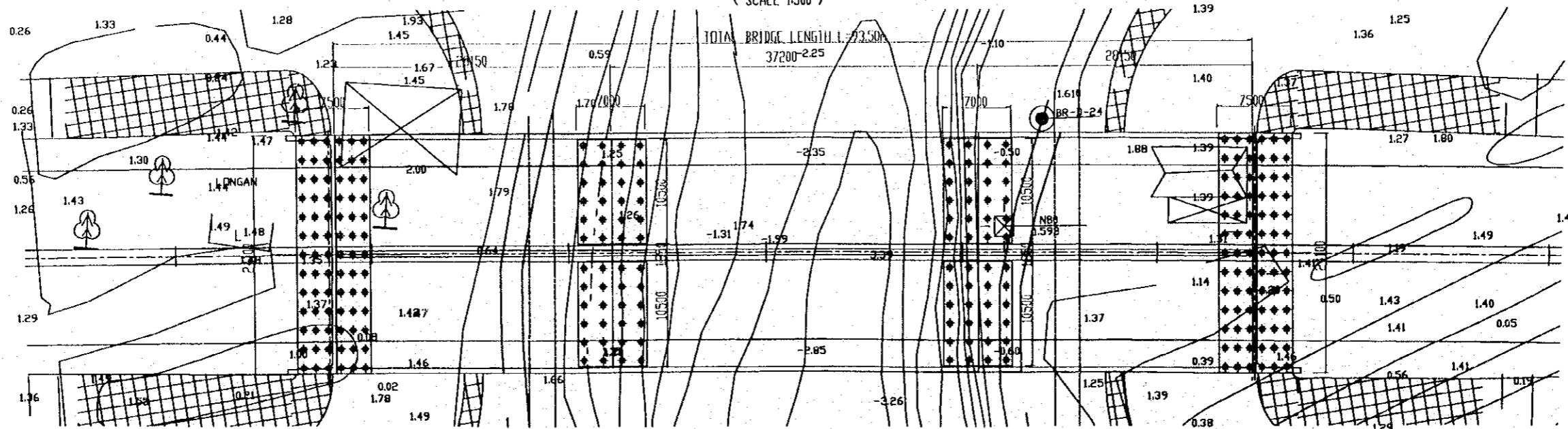


DATUM LEVEL +45.00

| CHAINAGE | EXISTING LEVELS (M) | DESIGN LEVELS (M) | SUPERELEVATION | GRADIENT |
|----------|---------------------|-------------------|----------------|---------------------|
| 12310.0 | 1.300 | | | -0.347% L=403.00 |
| 12320.0 | 1.560 | | | |
| 12330.0 | 1.480 | | | |
| 12340.0 | 1.390 | 6.790 | | |
| 12350.0 | 1.350 | | | |
| 12360.0 | 1.480 | 6.800 | | |
| 12372.0 | -1.210 | | | |
| 12376.0 | -1.990 | | | |
| 12380.0 | -2.500 | 6.769 | | |
| 12386.0 | -3.390 | | | |
| 12392.0 | -2.920 | | | |
| 12398.0 | -2.860 | | | |
| 12405.0 | 1.240 | 6.740 | | |
| 12420.0 | 1.330 | | | 0.605% L=517.00 |
| 12430.0 | 1.360 | 6.650 | | |
| 12433.0 | 1.150 | | | |
| 12440.0 | 0.630 | | | |
| 12442.0 | 1.390 | | | |
| 12446.0 | 1.280 | | | |
| 12448.0 | 0.610 | | | |
| 12460.0 | 0.610 | | | |

PLAN

(SCALE 1:500)

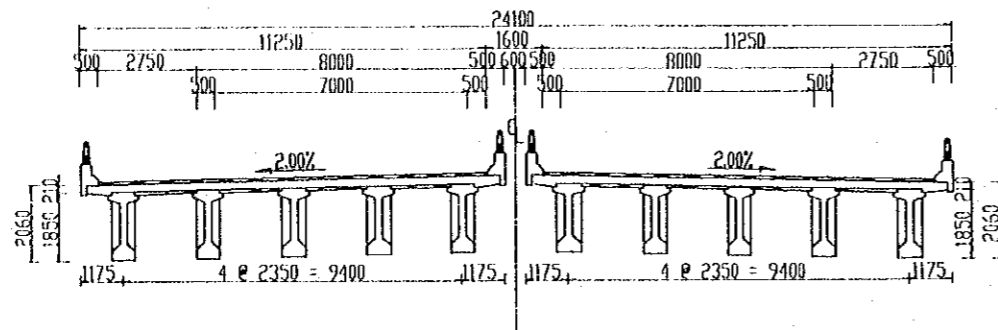


| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|---|---|----------------------------|--|--|--|---|-------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | NK NIPPON KOKI CO.,LTD. | NAME: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000 | K. Matsumoto [Signature] 29/9/2000 | K. Enomoto [Signature] 5/10/2000 | CAI NAI BRIDGE GENERAL GENERAL VIEW - SHEET 1 | P5/BRS/0060 |

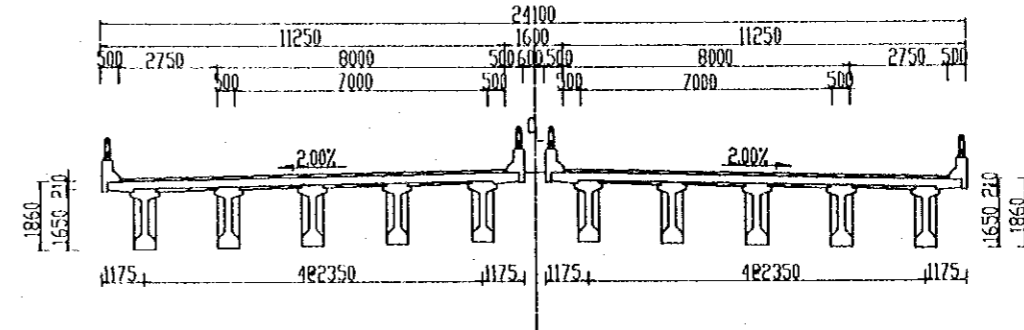
TYPICAL SECTIONS FOR SUPERSTRUCTURE

(SCALE 1:200)

MIDDLE SPAN



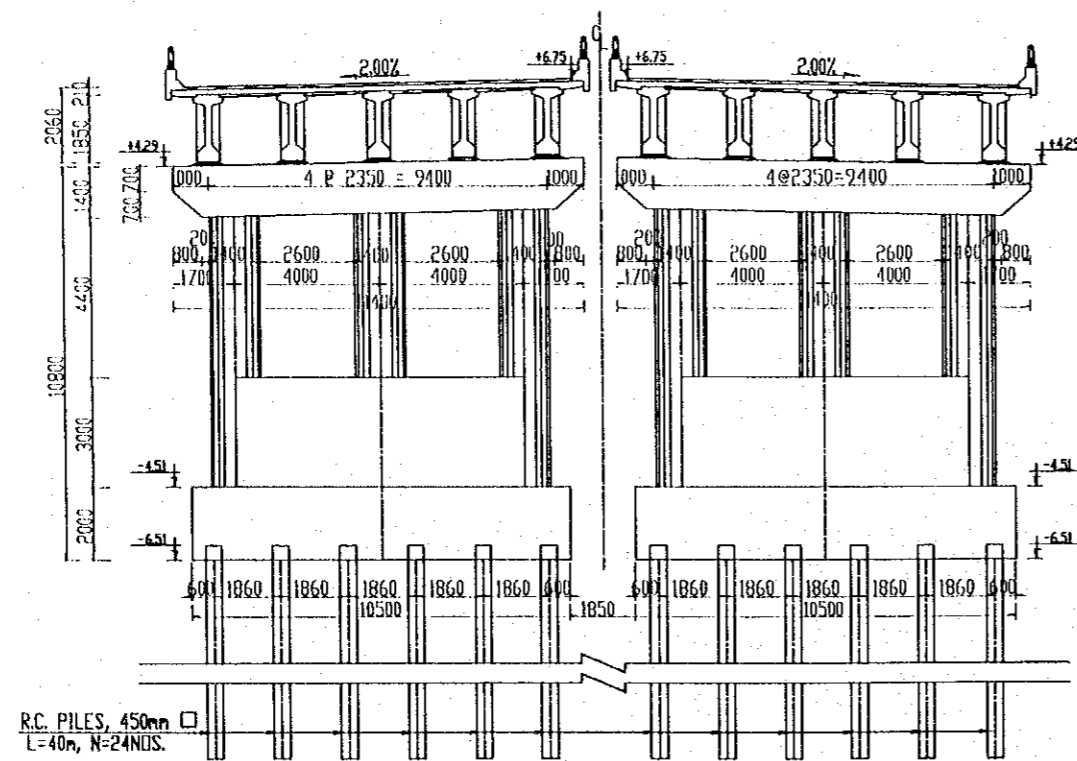
SIDE SPAN



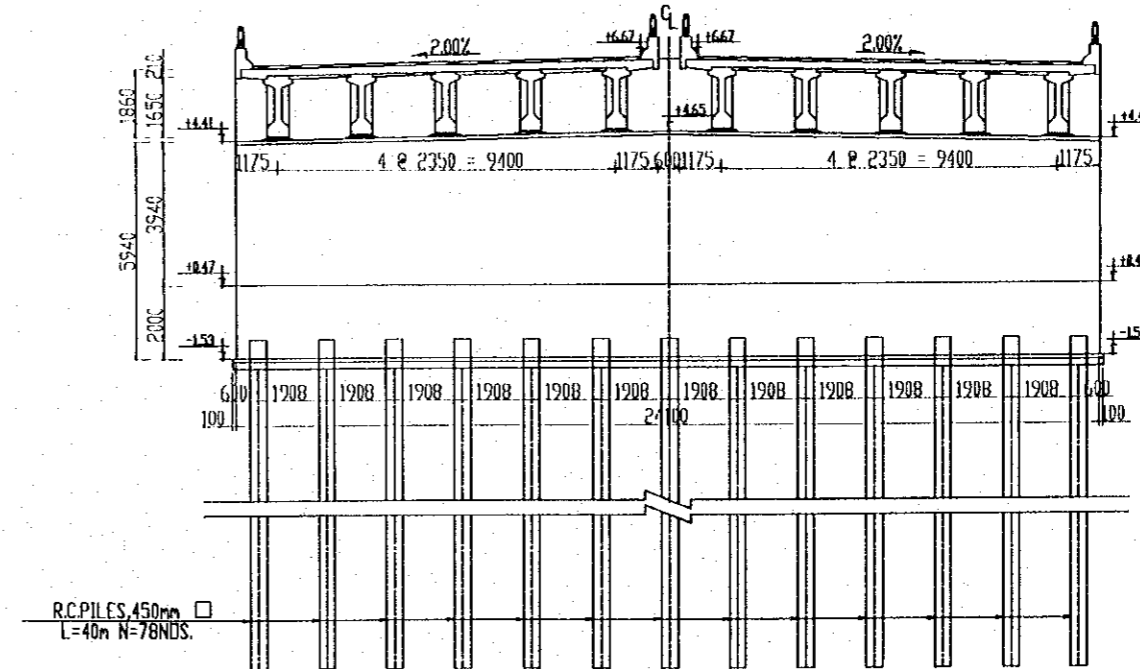
CROSS SECTIONS

(SCALE 1:200)

A-A (PIER P2)



B-B (ABUTMENT A2)



R.C. PILES 450mm
L=40m N=78NDS.

R.C. PILES, 450mm
L=40m, N=24NDS.

| 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 KOKAI CO.,LTD. | T. Kametani | K. Matsumoto | K. Enomoto | CAI NAI BRIDGE GENERAL GENERAL VIEW - SHEET 2 | P3/BBS/0070 |
| | | | | NAME | | | | |
| | | | | SIGNATURE | | | | |
| | | | | DATE | 20/9/2000 | 29/9/2000 | 5/10/2000 | |

QUANTITY TABLE OF CAI NAI BRIDGE

| ITEMS | UNIT | SUPERSTRUCTURE | ABUTMENTS | PIERS | MISCELLANEOUS WORKS | | | TOTAL |
|----------------------------|---------------------------|----------------|-----------|---------|---------------------|---------------|---------|---------|
| | | | | | DRAINAGE | LIGHTING-BASE | RAILING | |
| CONCRETE | CLASS B | m3 | 703.6 | | | | | 703.6 |
| | CLASS D | m3 | 696.4 | 2315.0 | 1906.2 | | | 4917.6 |
| | CLASS E | m3 | | 1241.5 | 780.4 | | 0.2 | 2117.5 |
| | CLASS G | m3 | | 60.4 | | | | 60.4 |
| PC - STEEL | 12 S15.2 | ton | | | | | | 0.0 |
| | 12 S12.7 | ton | 7.7 | | | | | 7.7 |
| | 3 S12.7 | ton | 0.4 | | | | | 0.4 |
| SHEATHING | CABLES ϕ 80/85 | m | 3503.7 | | | | | 3503.7 |
| | CABLES ϕ 90/100 | m | | | | | | 0.0 |
| | CABLES ϕ 50/55 | m | 522.6 | | | | | 522.6 |
| | FLAT DUCT 25x80mm | m | | | | | | 0.0 |
| | CEMENT GROUT IN SHEATHING | m3 | 18.6 | | | | | 18.6 |
| STEEL JOINT KEY | set | 240.0 | | | | | | 240.0 |
| ANCHORAGE | CABLES 12S15.2 | live set | | | | | | 0.0 |
| | CABLES 12S12.7 | live set | 220.0 | | | | | 220.0 |
| | | dead set | | | | | | 0.0 |
| | CABLES 3S12.7 | live set | 104.0 | | | | | 104.0 |
| dead set | | | | | | | 0.0 | |
| REINFORCEMENT | D \leq 14 | ton | 147.2 | 39.8 | 21.13 | | 14.8 | 223.0 |
| | 16 \leq D \leq 25 | ton | 109.1 | 263.1 | 75.1 | 0.1 | | 447.4 |
| | 25 $<$ D \leq 32 | ton | 0 | 0.80 | 44.0 | | | 44.8 |
| | TOTAL | ton | 256.3 | 303.7 | 140.2 | 0.1 | 14.8 | 715.1 |
| EXPANSION JOINT | 100mm | m | 86.0 | | | | | 86.0 |
| BEARING | Non-Shrink Mortar | m3 | | | | | | 0.0 |
| | 550x250x25 | set | 40.0 | | | | | 40.0 |
| | 600x300x57 | set | 20 | | | | | 20.0 |
| | 1410x1410x214 | set | | | | | | 0.0 |
| ANCHORAGE BAR | ϕ 75 mm, L=1250mm | set | 48.0 | | | | | 48.0 |
| | ϕ 125 mm, L=2500mm | set | | | | | | 0.0 |
| PVC PILE | ϕ 50 mm | m | | 132.0 | | | | 132.0 |
| DRAINAGE | Pot | m | | | | 14.0 | | 14.0 |
| | Pile ϕ 180 | m | | | | 24.6 | | 24.6 |
| LIGHTING POLE | | set | | | | 2 | | 2.0 |
| PAVEMENT | WATER PROOFING 5 mm | m2 | 2010.3 | | | | | 2010.3 |
| | ASPHALT CONCRETE 70 mm | m2 | 2010.3 | | | | | 2010.3 |
| GEOTEXTILE | | m2 | | 1191.0 | | | | 1191.0 |
| STONE MASONRY T=300mm | | m3 | | 1140.7 | | | | 1140.7 |
| BLINDING AGGREGATE T=100mm | | m3 | | 380.2 | | | | 380.2 |
| RIP RAP | | m3 | | | 3150.2 | | | 3150.2 |
| BLINDING STONE | | m3 | | 67.8 | 140 | | | 207.7 |
| WOODEN PILE, L=3m | | m | | 15837.0 | | | | 15837.0 |
| EXCAVATION | | m3 | | 4795.1 | 4206.4 | | | 9001.5 |
| FILLING | | m3 | | 1107 | 2236.9 | | | 3343.8 |
| COFFERDAMS | LARSEN IV | m | | 26581.5 | | | | 26581.5 |
| | I 400 | m | | | 1440.0 | | | 1440.0 |
| | C 300 | m | | | 1086.0 | | | 1086.0 |

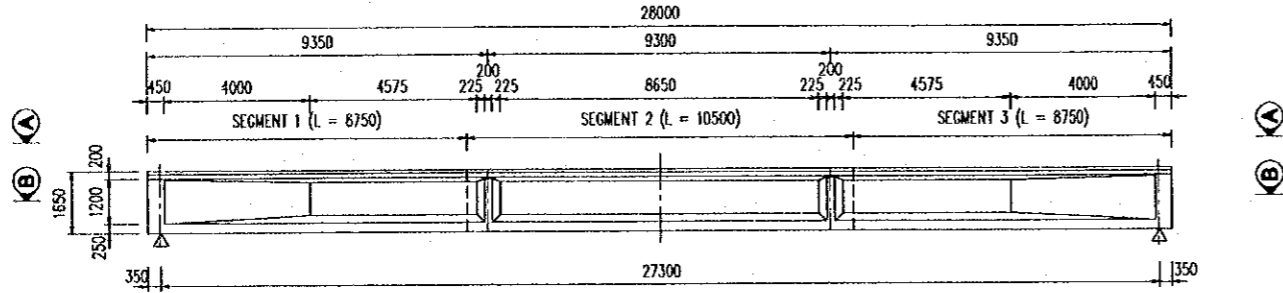
| | | | | | | | | |
|--|--|---|---|----------------------------|----------------------------|---------------------------|--|------------------------|
| PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | IMPLEMENTATION AGENCY JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | JICA STUDY TEAM NIPPON KOEI CO.,LTD. | PREPARED BY T. Kametani | CHECKED BY K. Matsumoto | APPROVED BY K. Enomoto | DRAWING TITLE CAI NAI BRIDGE GENERAL QUANTITY TABLE OF BRIDGE | DWG NO. P3/BR5/0080 |
| | | | | SIGNATURE | SIGNATURE | SIGNATURE | | |
| | | | | DATE 20/9/2000 | DATE 29/9/2000 | DATE 5/10/2000 | | |

II. SUPERSTRUCTURE

DETAIL OF SUPER STRUCTURE FOR CAI NAI BRIDGE
(Ls = 27.3M)

ELEVATION

(SCALE : 1:200)

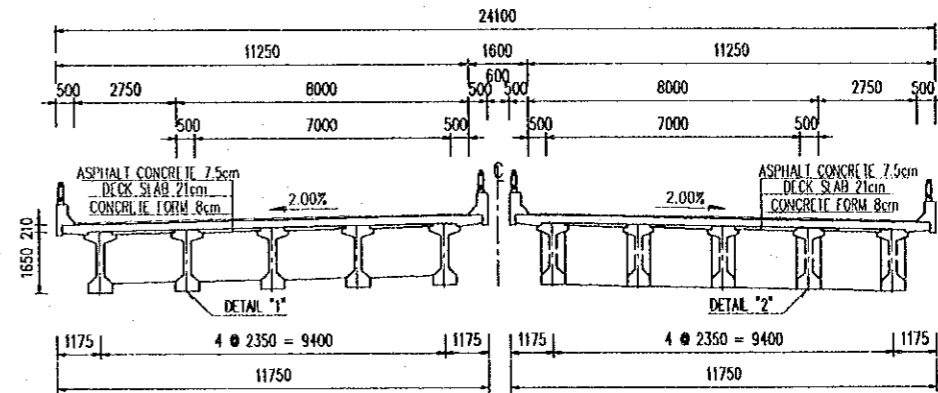


1/2 SECTION C - C

(SCALE : 1:200)

1/2 SECTION D - D

(SCALE : 1:200)

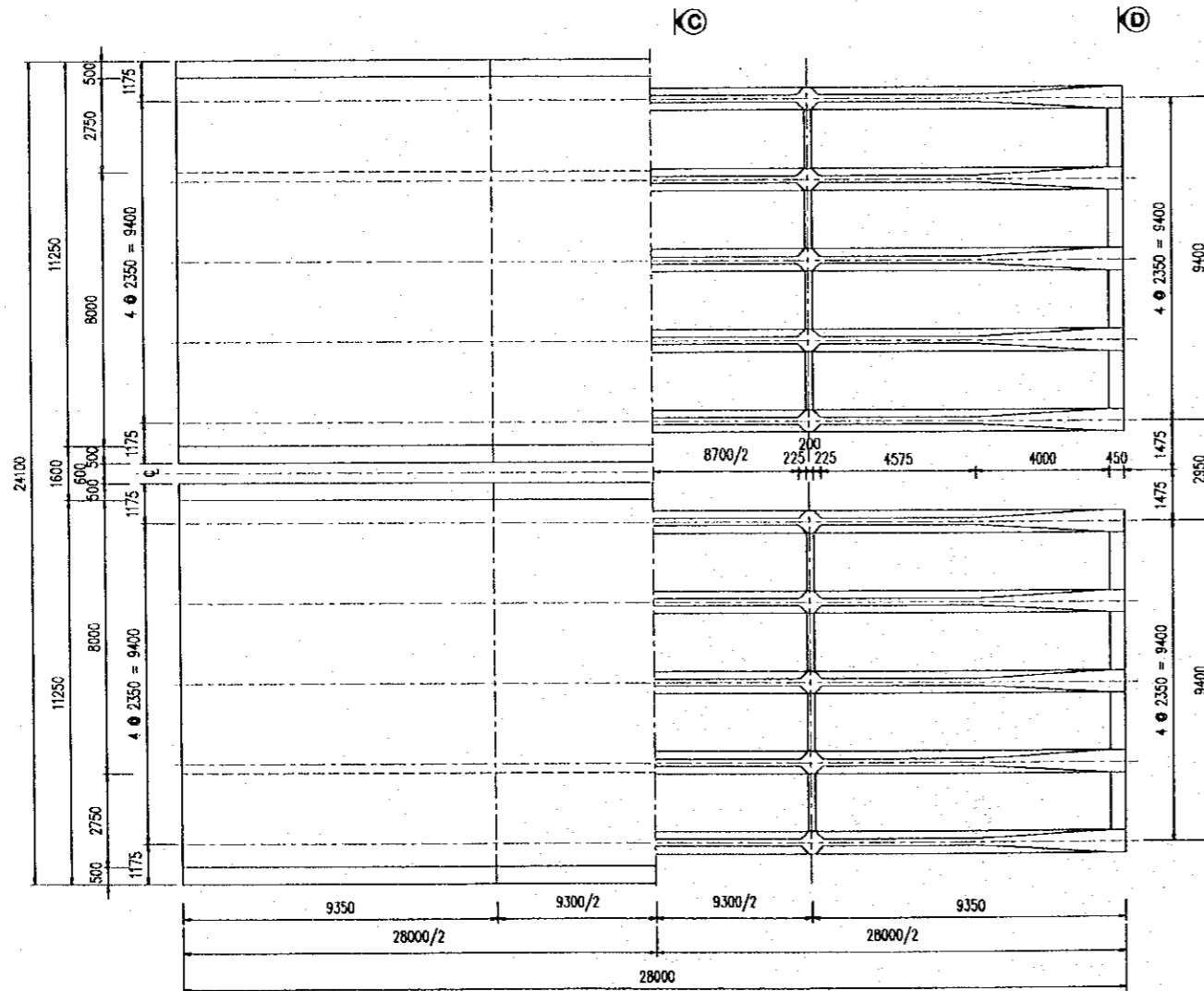


1/2 SECTION A - A

(SCALE : 1:200)

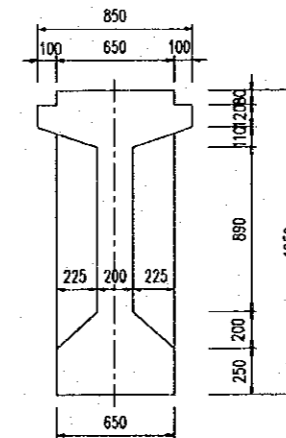
1/2 SECTION B - B

(SCALE : 1:200)



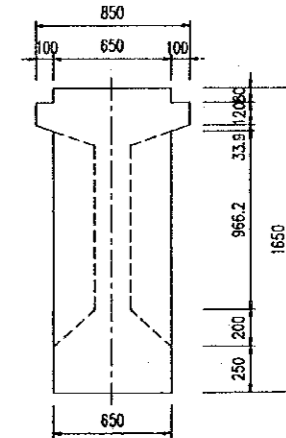
DETAIL "1"

(SCALE : 1:40)



DETAIL "2"

(SCALE : 1:40)

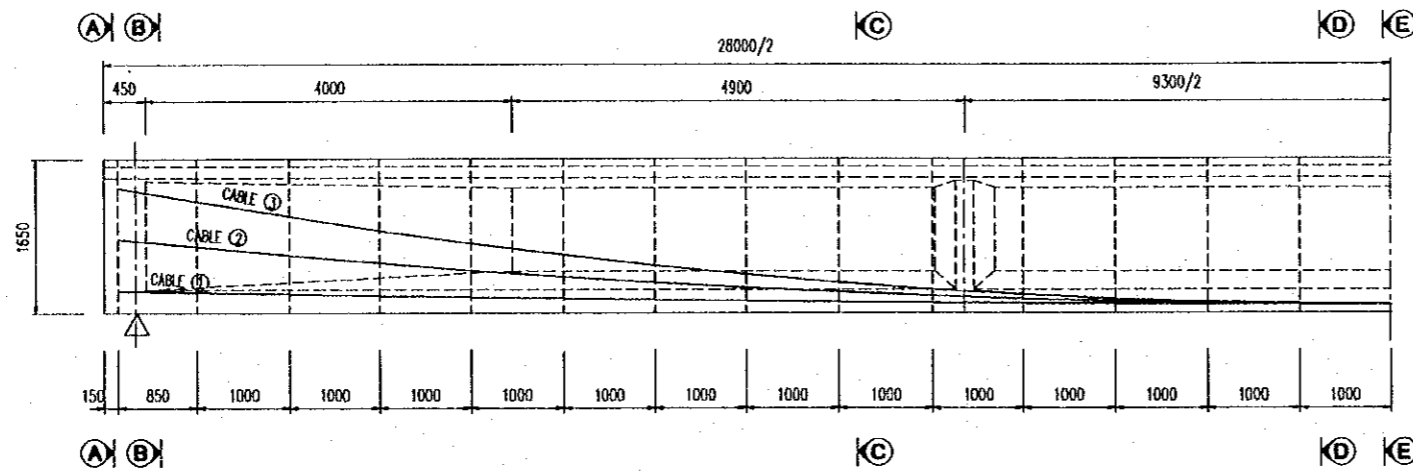


NOTES :

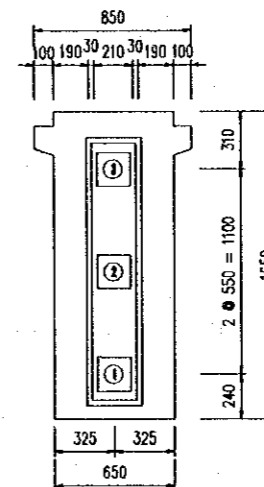
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR5/0030.

| 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. | T. Kametani | K. Matsumoto | K. Enomoto | CAI NAI BRIDGE SUPERSTRUCTURE GENERAL VIEW OF "T" GIRDER L - 28M | P3/BR5/0100 |
| | | | | NAME | | | | |
| | | | | SIGNATURE | | | | |
| | | | | DATE | 20/9/2000 | 29/9/2000 | 5/10/2000 | |

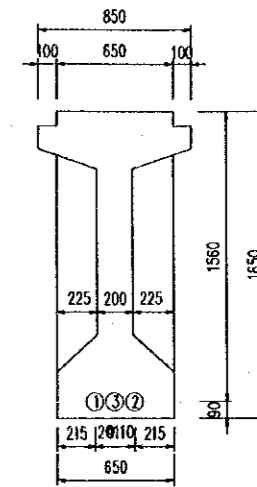
PC CABLE ARRANGEMENT OF GIRDER FOR CAI NAI BRIDGE (Ls = 27.3M)



SECTION A - A
(SCALE 1 : 40)



SECTION E - E
(SCALE 1 : 40)



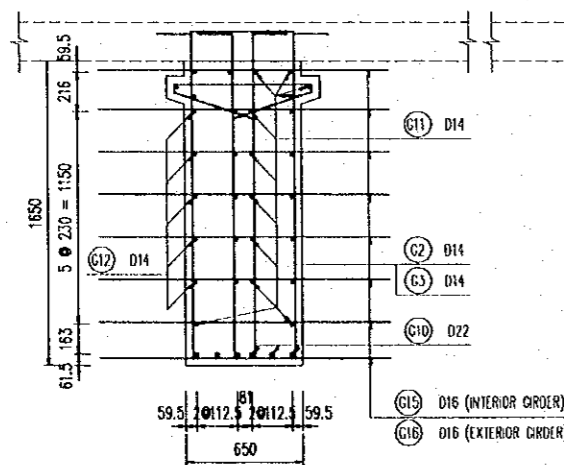
POSITION OF CABLE CENTER FROM BOTTOM OF GIRDER

| L | 13850 | 13000 | 12000 | 11000 | 10000 | 9000 | 8000 | 7000 | 6000 | 5000 | 4000 | 3000 | 2000 | 1000 |
|---------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| CABLE ① | 225 | 207 | 185 | 166 | 149 | 134 | 121 | 110 | 101 | 94 | 89 | 86 | 85 | 85 |
| CABLE ② | 515 | 458 | 393 | 335 | 282 | 236 | 196 | 162 | 134 | 113 | 97 | 88 | 85 | 85 |
| CABLE ③ | 895 | 710 | 601 | 503 | 416 | 338 | 271 | 214 | 168 | 131 | 106 | 90 | 85 | 85 |
| CABLE ④ | 1095 | 976 | 841 | 718 | 608 | 511 | 427 | 356 | 298 | 253 | 201 | 155 | 195 | 195 |
| CABLE ⑤ | 1385 | 1242 | 1080 | 932 | 801 | 685 | 584 | 499 | 429 | 375 | 336 | 313 | 305 | 305 |

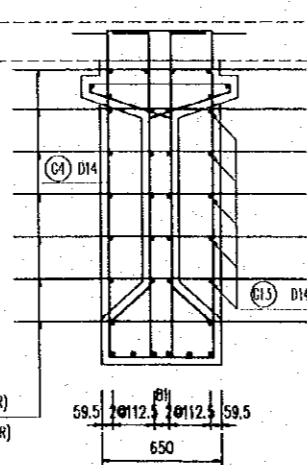
| PC CABLE 12 S 12.7 | | | | (UNIT : MM) |
|--------------------|------|-------|---------|-------------|
| CABLE No | L1 | L2 | 2x Σ Li | a |
| ① | 1000 | 12851 | 27702 | 19' |
| ② | 1004 | 12869 | 27746 | 52.3' |
| ③ | 1014 | 12910 | 27848 | 9'35" |

WEIGHT = 83.3 x 9.29 kg/m = 773.8 kg
 SHEATHING Ø 80/85 : 83.3 M
 ANCHORAGE : 6 SL1
 CEMENT GROUT IN SHEATHING : 0.42 M3
 CONCRETE : 20.545 M3

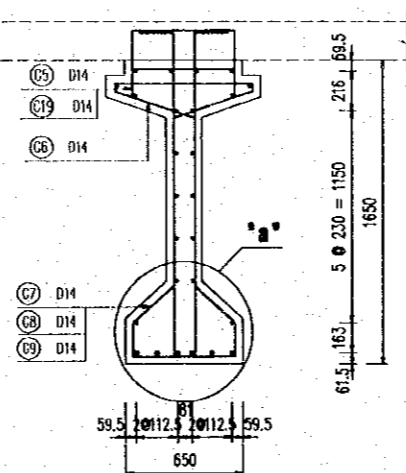
SECTION B - B
(SCALE : 1:40)



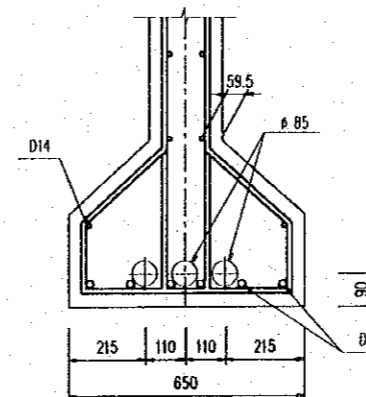
SECTION C - C
(SCALE : 1:40)



SECTION D - D
(SCALE : 1:40)



DETAIL "a"
(SCALE 1:20)

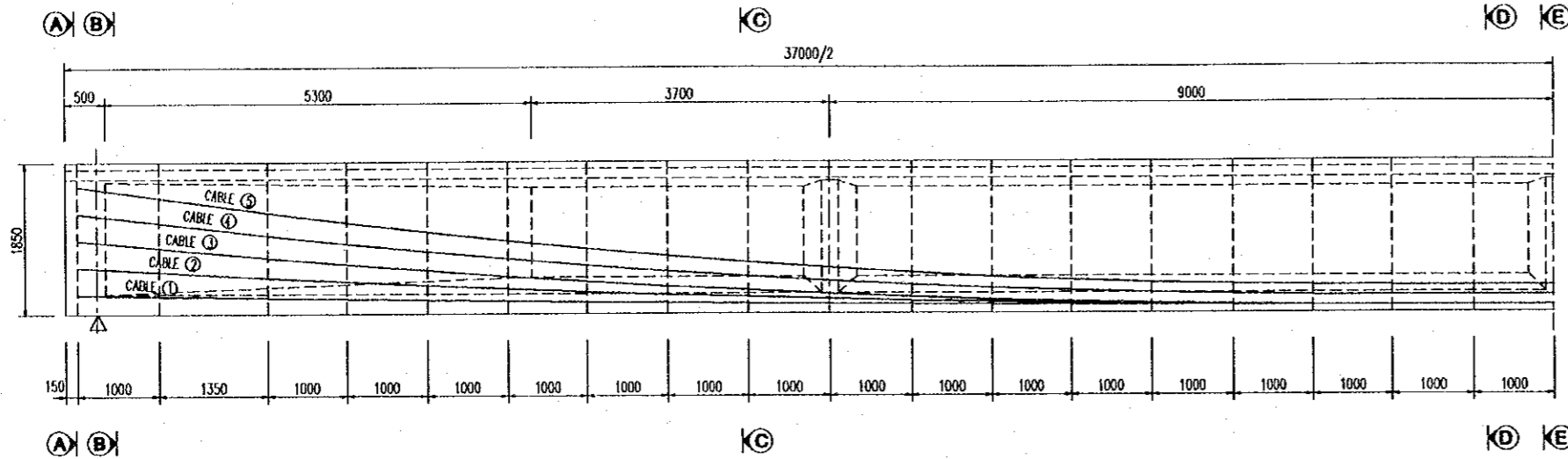


NOTES :

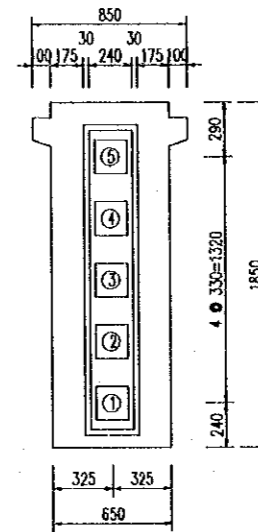
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR5/0030.

| 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 | NIPPON KOEI CO.,LTD. | T. Kametani | K. Matsumoto | K. Enomoto | CAI NAI BRIDGE SUPERSTRUCTURE TENDON ARRANGEMENT OF 'T' GIRDER L-28M | P3/BR5/0120 |
| | | | | NAME: T. Kametani | NAME: K. Matsumoto | NAME: K. Enomoto | | |
| | | | | SIGNATURE: [Signature] | SIGNATURE: [Signature] | SIGNATURE: [Signature] | | |
| | | | | DATE: 20/9/2000 | DATE: 29/9/2000 | DATE: 5/10/2000 | | |

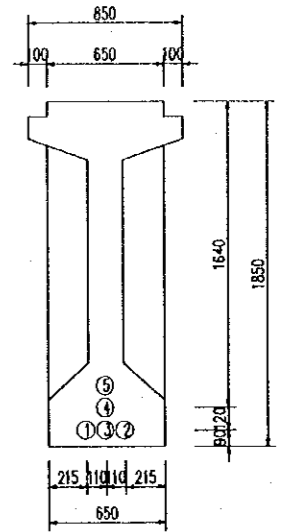
PC CABLE ARRANGEMENT OF GIRDER FOR CAI NAI BRIDGE (Ls = 36.2M)



SECTION A - A
(SCALE 1 : 40)



SECTION E - E
(SCALE 1 : 40)



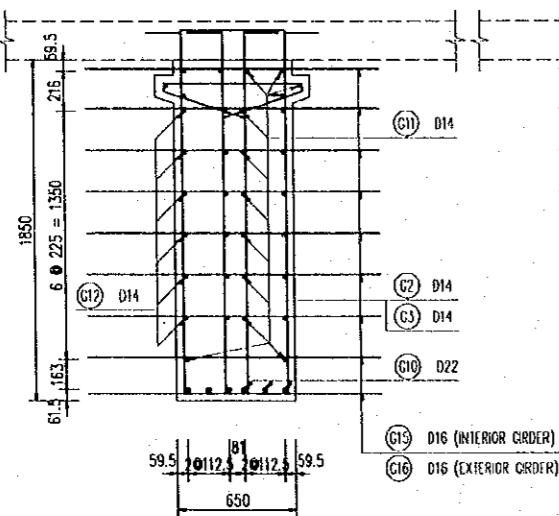
POSITION OF CABLE CENTER FROM BOTTOM OF GIRDER

| I | 18350 | 17350 | 16000 | 15000 | 14000 | 13000 | 12000 | 11000 | 10000 | 9000 | 8000 | 7000 | 6000 | 5000 | 4000 | 3000 | 2000 | 1000 |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| CABLE ① | 240 | 223 | 200 | 185 | 171 | 158 | 146 | 136 | 126 | 118 | 110 | 104 | 99 | 95 | 92 | 91 | 90 | 90 |
| CABLE ② | 570 | 515 | 443 | 395 | 350 | 308 | 270 | 236 | 205 | 178 | 155 | 135 | 119 | 106 | 97 | 92 | 90 | 90 |
| CABLE ③ | 900 | 807 | 686 | 604 | 528 | 458 | 394 | 336 | 285 | 239 | 200 | 166 | 139 | 117 | 102 | 95 | 90 | 90 |
| CABLE ④ | 1230 | 1112 | 961 | 857 | 762 | 673 | 593 | 520 | 455 | 398 | 348 | 306 | 271 | 245 | 225 | 214 | 210 | 210 |
| CABLE ⑤ | 1560 | 1418 | 1235 | 1111 | 993 | 889 | 792 | 704 | 626 | 556 | 496 | 446 | 404 | 372 | 349 | 335 | 330 | 330 |

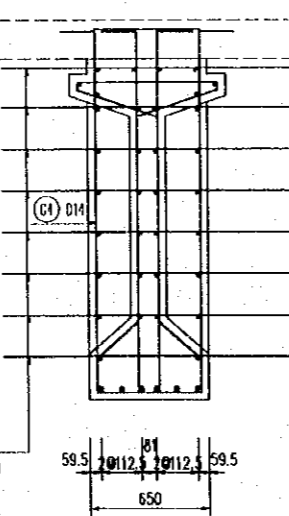
| PC CABLE 12 S 12.7 | | | | | (UNIT : kg) |
|--------------------|------|-------|------|---------|-------------|
| CABLE No | L1 | L2 | L3 | 2x Σ Li | a |
| ① | 1000 | 15351 | 2000 | 36702 | 0°59' |
| ② | 1002 | 15355 | 2000 | 36714 | 2°52' |
| ③ | 1004 | 15373 | 2000 | 36754 | 5°20' |
| ④ | 1007 | 15385 | 2000 | 36784 | 6°42' |
| ⑤ | 1010 | 15401 | 2000 | 36822 | 8°4' |

WEIGHT = 183.78 x 9.29 kg/m = 1707.5 kg
 SHEATHING Ø 80/85 : 183.78 M
 ANCHORAGE : 10 SET
 CEMENT GROUT IN SHEATHING : 0.923 M3
 CONCRETE : 29.226 M3

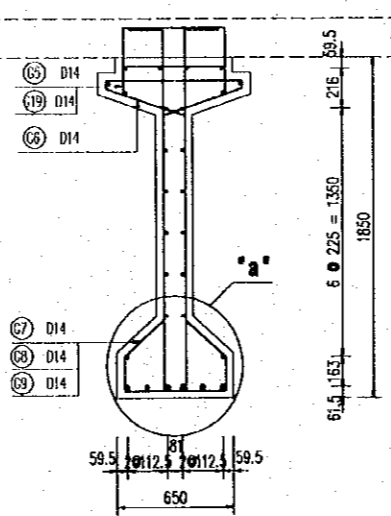
SECTION B - B
(SCALE : 1:40)



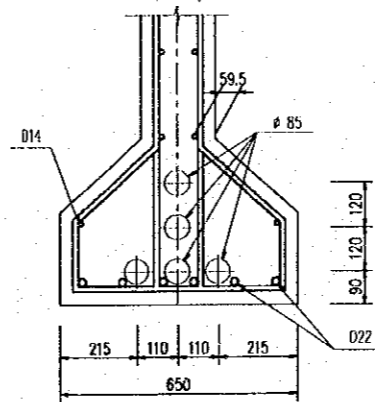
SECTION C - C
(SCALE : 1:40)



SECTION D - D
(SCALE : 1:40)



DETAIL 'a'
(SCALE 1:20)



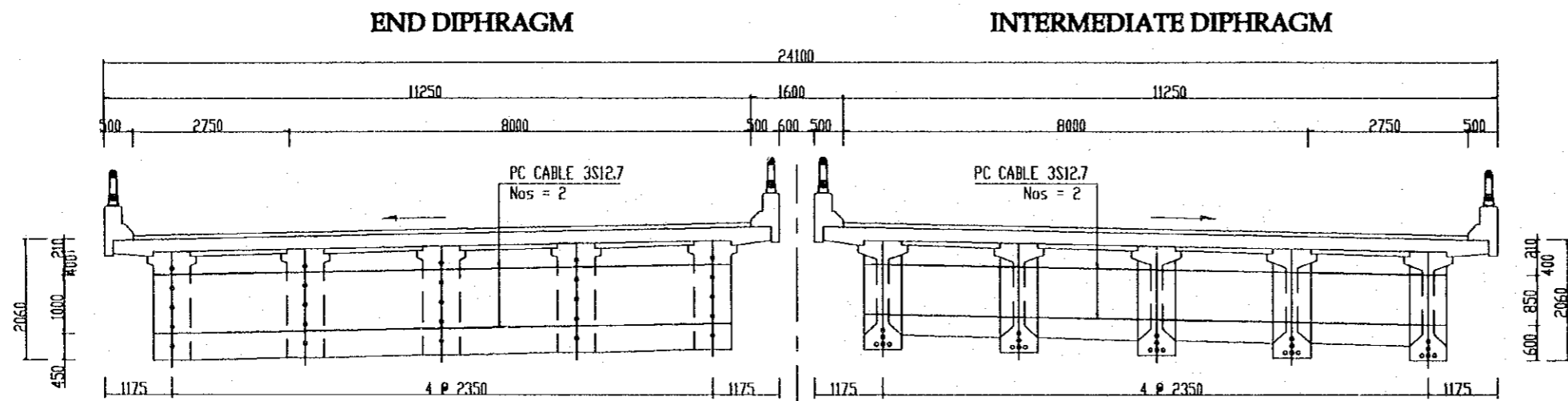
NOTES :

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR5/0030.

| 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: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000 | NAME: K. Matsumoto SIGNATURE: [Signature] DATE: 29/9/2000 | NAME: K. Enomoto SIGNATURE: [Signature] DATE: 5/10/2000 | CAI NAI BRIDGE SUPERSTRUCTURE TENDON ARRANGEMENT OF T ⁺ GIRDER L-37M | P3/BR5/0130 |

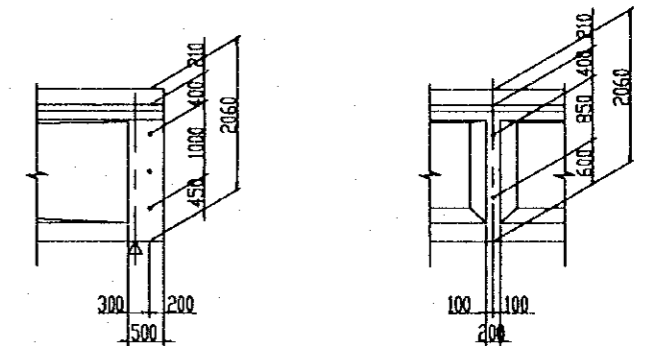
SECTION OF "I" GIRDER L = 37M

(SCALE 1 : 100)



PROFILE

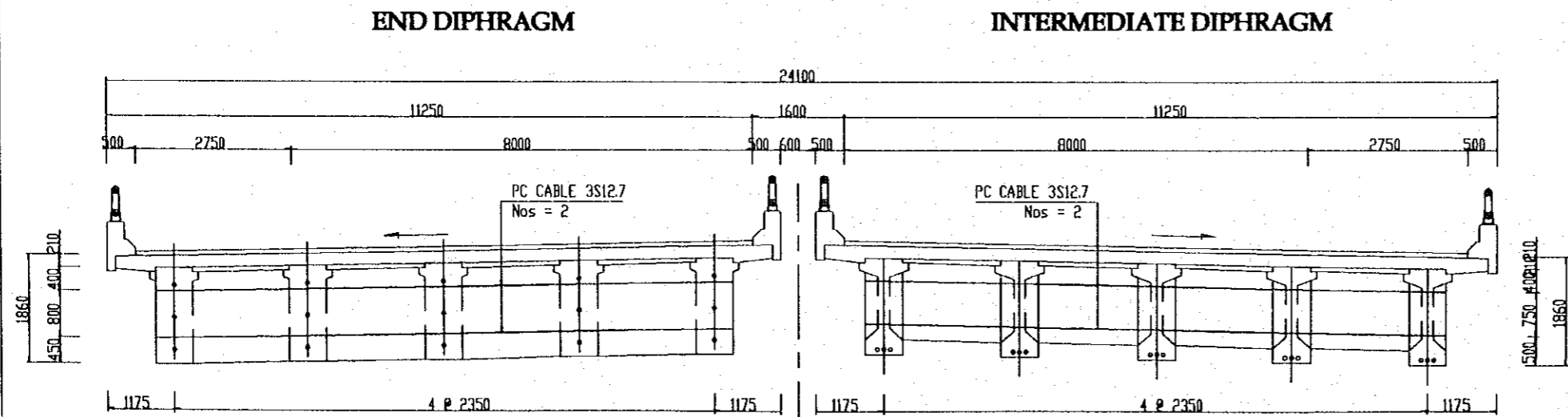
END DIPHRAGM INTERMEDIATE DIPHRAGM



TOTAL QUANTITY

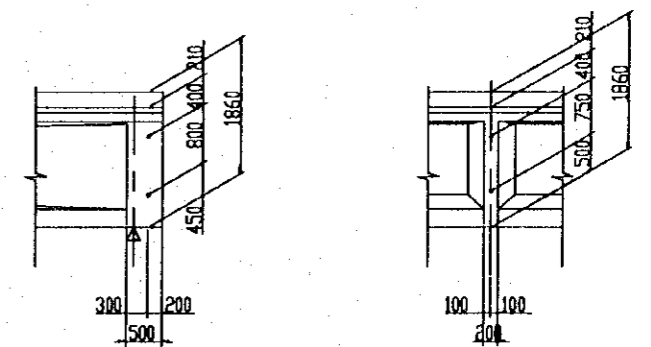
SECTION OF "I" GIRDER L = 28M

(SCALE 1 : 100)



PROFILE

END DIPHRAGM INTERMEDIATE DIPHRAGM

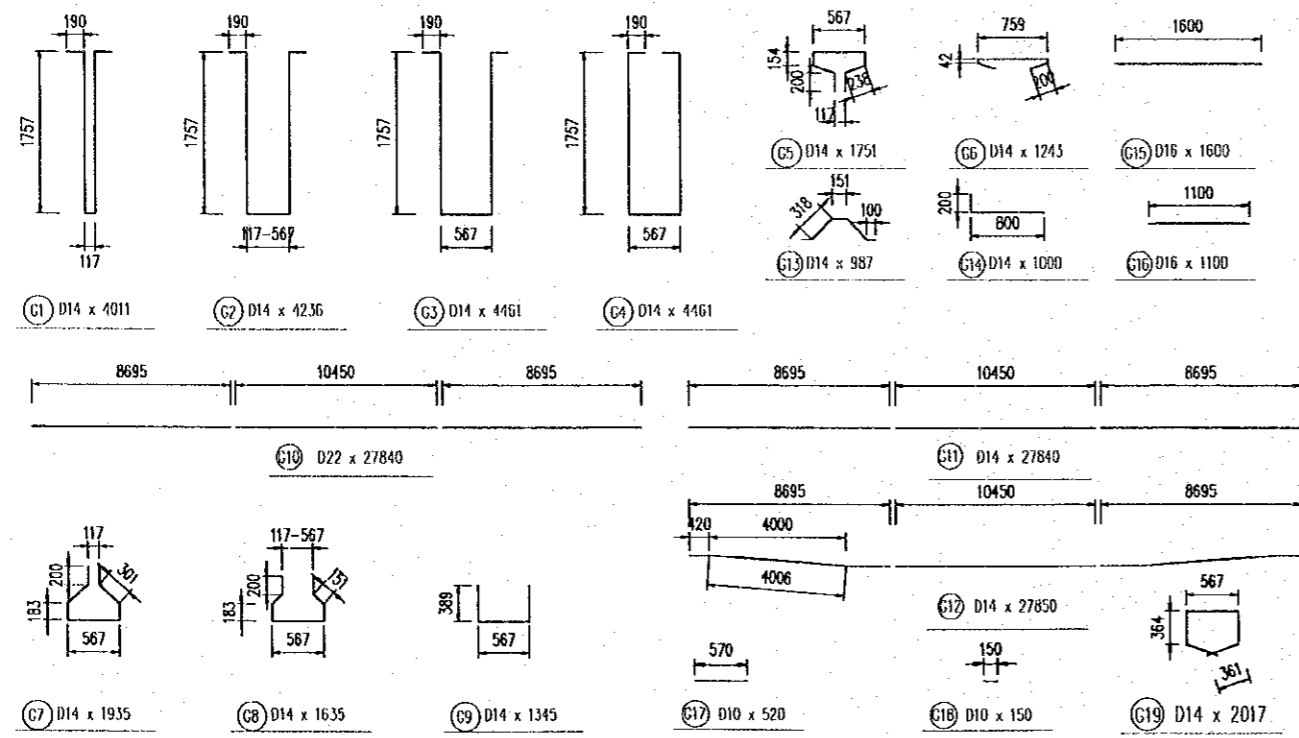
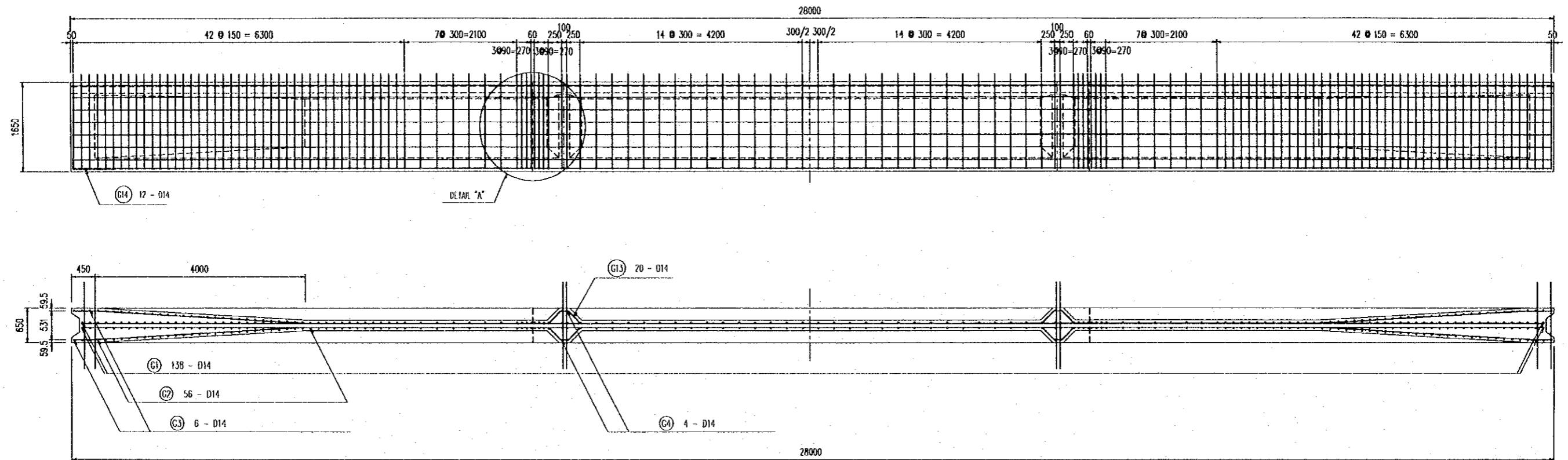


TOTAL QUANTITY

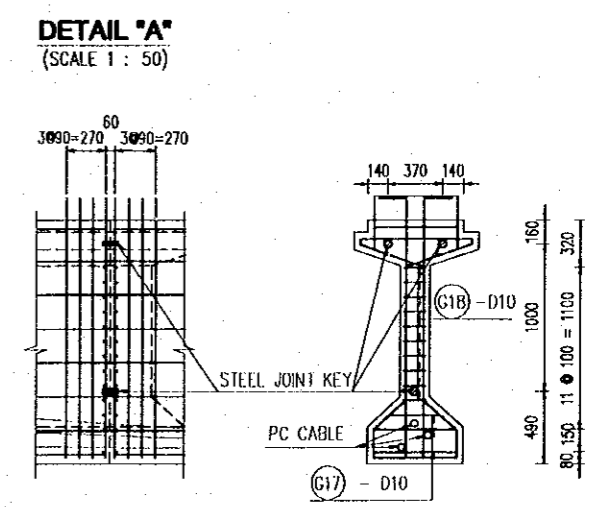
TOTAL WEIGHT OF PC CABLE 3S12.7 = 5226 x 2.32 kg/m = 12124 (kg)
 SHEATHING ϕ 50/55 : 5226 M
 ANCHORAGE : 104 SET
 CEMENT GROUT IN SHEATHING : 1.03 M3

| 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 | NIPPON KOEI CO.,LTD. | NAME: T. Kametani SIGNATURE: <i>T. Kametani</i> DATE: 20/9/2000 | NAME: K. Matsumoto SIGNATURE: <i>K. Matsumoto</i> DATE: 29/9/2000 | NAME: K. Eomoto SIGNATURE: <i>K. Eomoto</i> DATE: 5/10/2000 | CAI NAI BRIDGE SUPERSTRUCTURE TENDON ARRANGEMENT OF DIAPHRAGM | P3/005/0140 |

BAR ARRANGEMENT OF GIRDER FOR CAI NAI BRIDGE (Ls = 27.3M)



| BAR LIST (FOR 1 GIRDER) | | | | | | |
|-------------------------|----------|-------------|--------|--------------------|-------------|-----------------|
| REF. No | DIA (mm) | LENGTH (mm) | NUMBER | UNIT WEIGHT (kg/m) | WEIGHT (kg) | REMARKS |
| G1 | 14 | 4011 | 138 | 1.208 | 668.9 | |
| G2 | 14 | 4236 | 56 | 1.208 | 286.7 | AVERAGE |
| G3 | 14 | 4461 | 6 | 1.208 | 32.3 | |
| G4 | 14 | 4461 | 4 | 1.208 | 21.6 | |
| G5 | 14 | 1751 | 148 | 1.208 | 513.2 | |
| G6 | 14 | 1243 | 148 | 1.208 | 222.3 | |
| G7 | 14 | 1935 | 86 | 1.208 | 201.1 | |
| G8 | 14 | 1635 | 56 | 1.208 | 110.6 | AVERAGE |
| G9 | 14 | 1345 | 6 | 1.208 | 9.8 | |
| G10 | 22 | 27840 | 6 | 2.584 | 498.5 | |
| G11 | 14 | 27840 | 20 | 1.208 | 672.8 | |
| G12 | 14 | 27850 | 10 | 1.208 | 336.5 | |
| G13 | 14 | 987 | 20 | 1.208 | 23.9 | |
| G14 | 14 | 1000 | 12 | 1.208 | 14.5 | |
| G15 | 16 | 1600 | 50 | 1.578 | 126.3 | INTERIOR GIRDER |
| G16 | 16 | 1100 | 50 | 1.578 | 86.7 | EXTERIOR GIRDER |
| G17 | 10 | 578 | 12 | 0.617 | 4.2 | |
| G18 | 10 | 150 | 40 | 0.617 | 5.7 | |
| G19 | 14 | 2017 | 138 | 1.208 | 336.4 | |
| TOTAL | | | 3883.3 | | (3843.7) | |
| | D10 | | 7.9 | | (7.9) | |
| | D14 | | 3250.6 | | (3250.6) | |
| | D16 | | 126.3 | | (86.7) | |
| | D22 | | 498.5 | | (498.5) | |
| STEEL JOINT KEY : 6 SET | | | | | | |

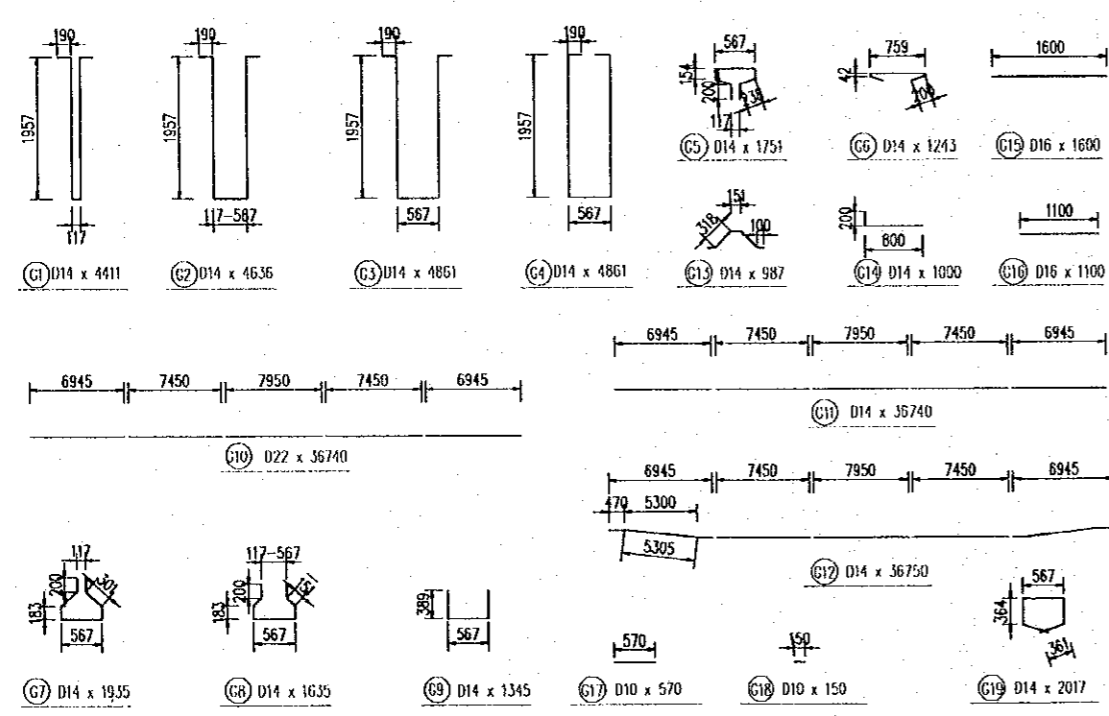
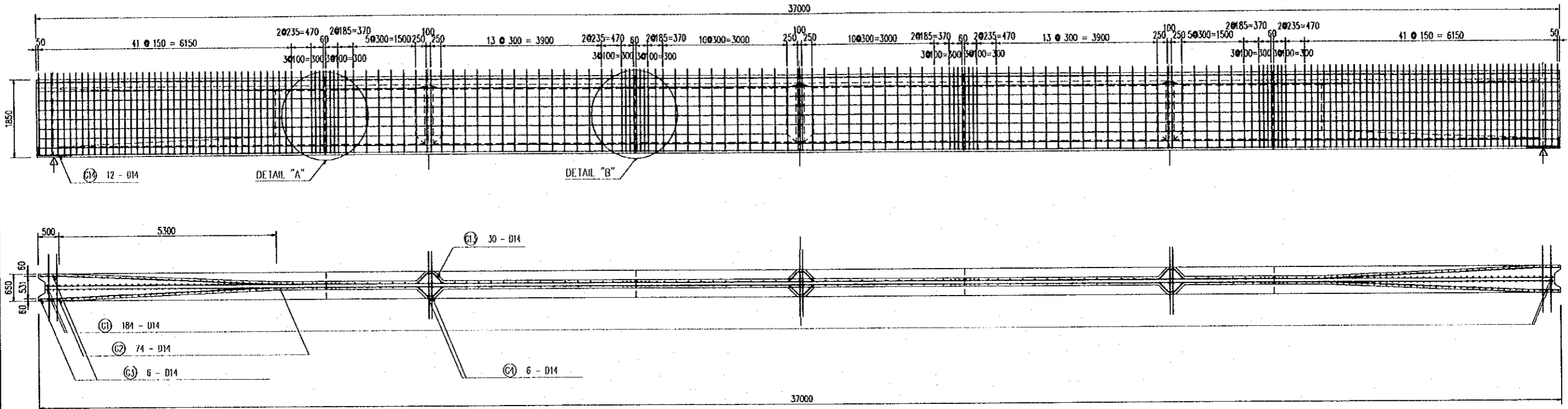


NOTES:

- FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR5/0030.
- THE VALUE OF INSIDE () ARE FOR EXTERIOR GIRDER.

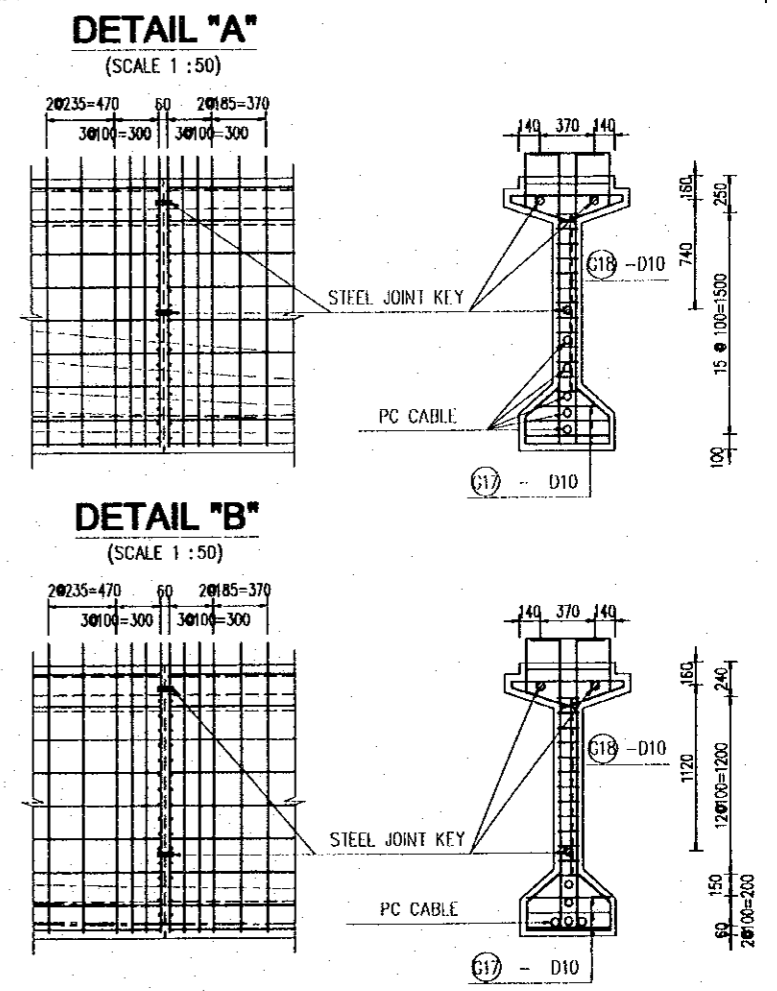
| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|---|---|-------------------------------|--|---|---|---|-------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) | SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT | (NHK) NIPPON KOEI CO.,LTD. | NAME: T. Kametani SIGNATURE: [Signature] DATE: 20/9/2000 | NAME: K. Matsumoto SIGNATURE: [Signature] DATE: 29/9/2000 | NAME: K. Enomoto SIGNATURE: [Signature] DATE: 5/10/2000 | CAI NAI BRIDGE SUPERSTRUCTURE REINFORCEMENT OF "T" GIRDER L = 28M | P3/BR5/0150 |

BAR ARRANGEMENT OF GIRDER FOR CAI NAI BRIDGE (Ls = 36.2M)



| BAR LIST (FOR 1 GIRDER) | | | | | | |
|-------------------------|----------|-------------|--------|--------------------|-------------|-----------------|
| REIN No | DIA (mm) | LENGTH (mm) | NUMBER | UNIT WEIGHT (kg/m) | WEIGHT (kg) | REMARKS |
| G1 | 14 | 4411 | 184 | 1.208 | 980.8 | |
| G2 | 14 | 4636 | 74 | 1.208 | 414.6 | AVERAGE |
| G3 | 14 | 4861 | 6 | 1.208 | 35.2 | |
| G4 | 14 | 4861 | 6 | 1.208 | 35.2 | |
| G5 | 14 | 1751 | 196 | 1.208 | 414.8 | |
| G6 | 14 | 1243 | 196 | 1.208 | 294.4 | |
| G7 | 14 | 1935 | 122 | 1.208 | 285.3 | |
| G8 | 14 | 1635 | 74 | 1.208 | 146.2 | AVERAGE |
| G9 | 14 | 1345 | 6 | 1.208 | 9.8 | |
| G10 | 22 | 36740 | 6 | 2.984 | 657.8 | |
| G11 | 14 | 36740 | 22 | 1.208 | 976.7 | |
| G12 | 14 | 36750 | 12 | 1.208 | 532.9 | |
| G13 | 14 | 987 | 30 | 1.208 | 35.8 | |
| G14 | 14 | 1000 | 12 | 1.208 | 14.5 | |
| G15 | 16 | 1600 | 74 | 1.578 | 186.9 | INTERIOR GIRDER |
| G16 | 16 | 1100 | 74 | 1.578 | 128.5 | EXTERIOR GIRDER |
| G17 | 10 | 570 | 24 | 0.617 | 8.4 | |
| G18 | 10 | 150 | 104 | 0.617 | 9.6 | |
| G19 | 14 | 2017 | 184 | 1.208 | 448.5 | |
| TOTAL | | | 5487.3 | | (5428.9) | |
| | D10 | | 18.0 | | (18.0) | |
| | D14 | | 4624.7 | | (4624.7) | |
| | D16 | | 186.9 | | (128.5) | |
| | D22 | | 657.7 | | (657.7) | |

STEEL JOINT KEY : 12 SET



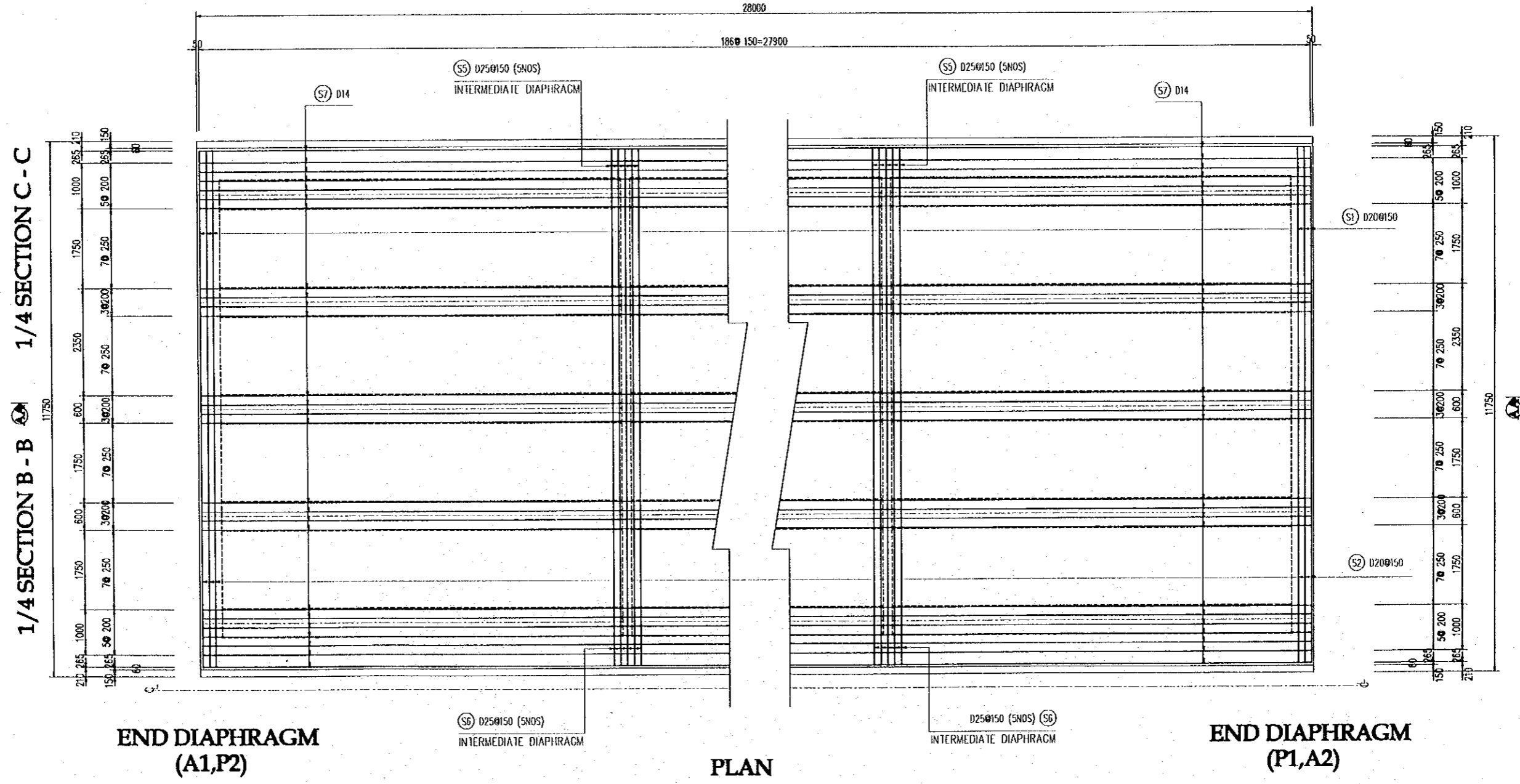
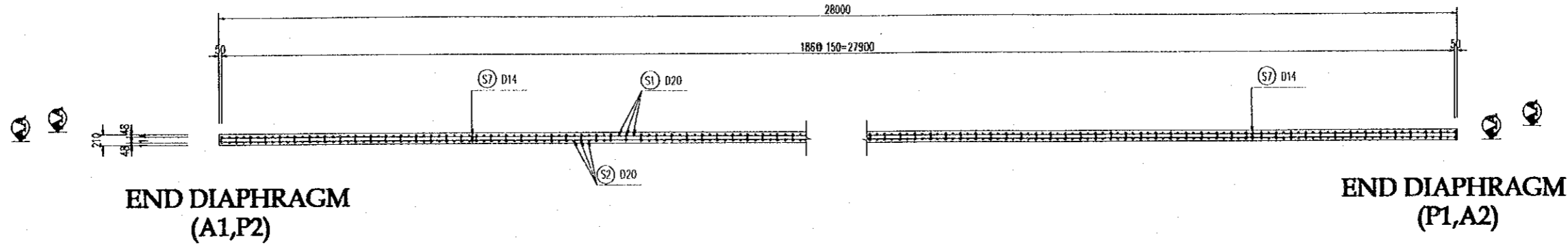
NOTES :

1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR5/0030.
2. THE VALUE OF INSIDE () ARE FOR EXTERIOR GIRDER.

| 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: T. Kametani SIGNATURE: <i>T. Kametani</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 | CAI NAI BRIDGE SUPERSTRUCTURE REINFORCEMENT OF "T" GIRDER L - 37M | P3/BR5/0160 |

SECTION A - A

SCALE : 1:100



PLAN
SCALE 1:100

NOTES:

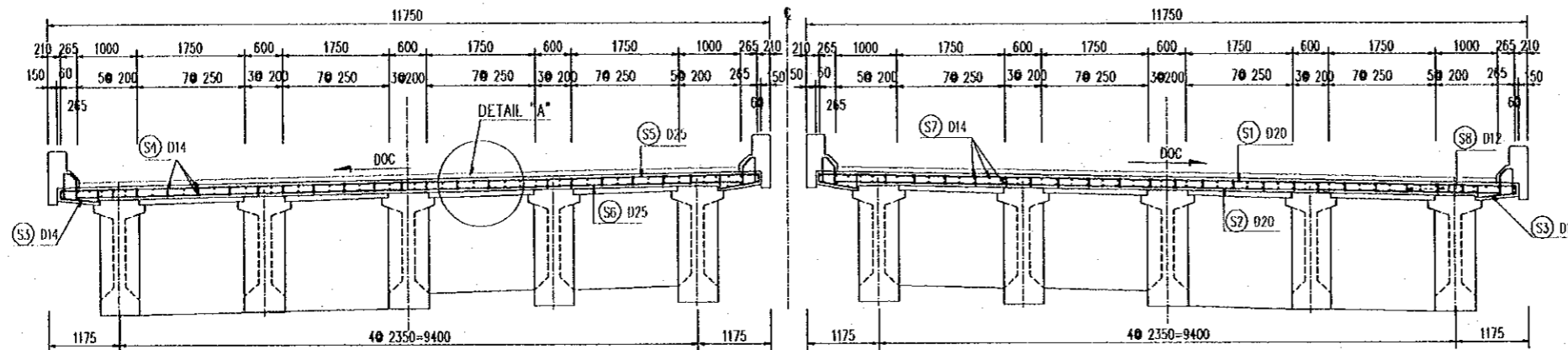
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P1/BR3/0030

| | | | | | | | | | |
|--|---|---|---|-------------|--------------------|---------------------|--|------------------------|-------------------|
| 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 KORI CO.,LTD. | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE CAI NAI BRIDGE SUPERSTRUCTURE DECK SLAB REINFORCEMENT - SHEET 1 | DWG NO. P3/BR5/0180 | |
| | | | | NAME | T. Kametani | K. Matsumoto | | | K. Enomoto |
| | | | | SIGNATURE | <i>T. Kametani</i> | <i>K. Matsumoto</i> | | | <i>K. Enomoto</i> |
| DATE | 20/9/2000 | 29/9/2000 | 5/10/2000 | | | | | | |

1/4 SECTION
AT END DIAPHRAGM INTERMEDIATE DIAPHRAGM

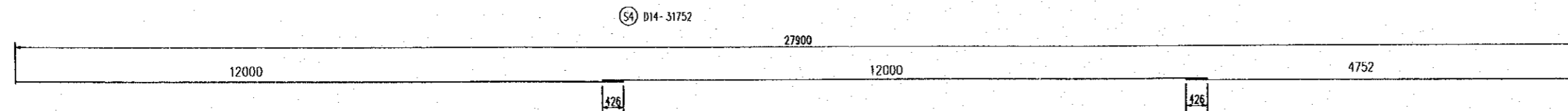
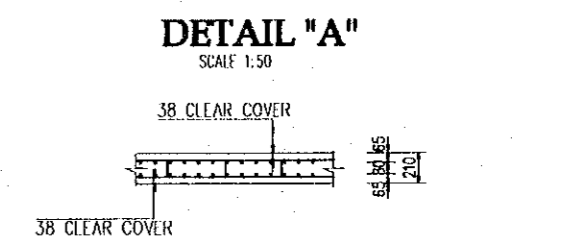
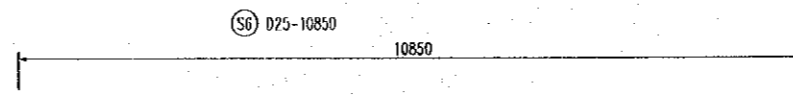
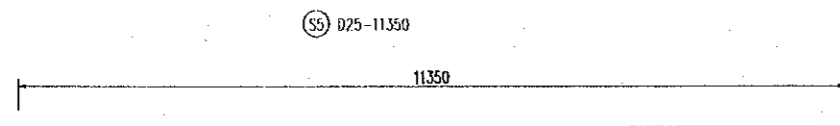
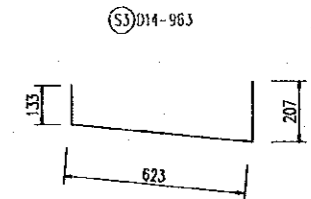
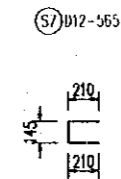
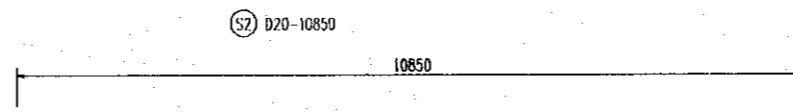
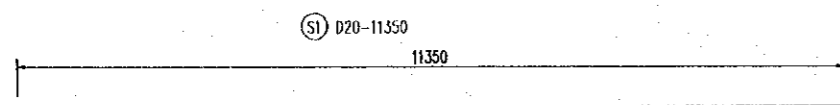
1/4 SECTION AT
INTERMEDIATE DIAPHRAGM

1/4 SECTION
AT END DIAPHRAGM



LIST OF REINFORCEMENT

| TYPE | DIAMETER (mm) | LENGTH (mm) | NUMBER | UNITWEIGHT (kg/m) | WEIGHT (kg) |
|------------|---------------|-------------|--------|-------------------|-------------|
| S1 | D20 | 11350 | 177 | 2.466 | 24014.6 |
| S2 | D20 | 10850 | 177 | 2.466 | 22956.7 |
| S3 | D14 | 963 | 374 | 1.208 | 2112.6 |
| S4 | D14 | 25752 | 200 | 1.208 | 7671.3 |
| S5 | D25 | 11350 | 10 | 3.854 | 2186.6 |
| S6 | D25 | 10850 | 10 | 3.854 | 2090.3 |
| S7 | D12 | 565 | 1092 | 0.888 | 5669.4 |
| TOTAL: | | | | | |
| | D25 | 855.0 | (KG) | | |
| | D20 | 9699.6 | (KG) | | |
| | D14 | 6853.8 | (KG) | | |
| | D12 | 578.2 | (KG) | | |
| CONCRETE : | | | | | 335.8(M3) |



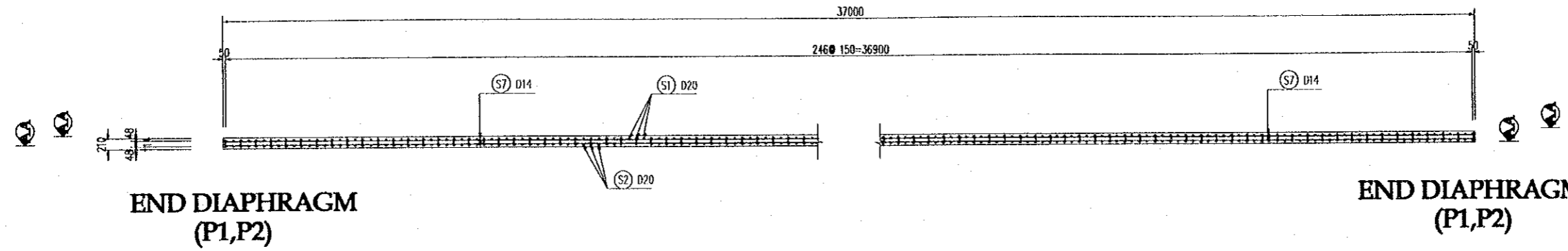
NOTES:

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BR3/0030

| 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 | NIPPON KOEI CO.,LTD. | T. Kametani | K. Matsumoto | K. Enomoto | CAI NAI BRIDGE SUPERSTRUCTURE DECK SLAB REINFORCEMENT - SHEET 2 | P3/BR3/0190 |
| | | | | DATE: 20/9/2000 | DATE: 29/9/2000 | DATE: 5/10/2000 | | |

SECTION A - A

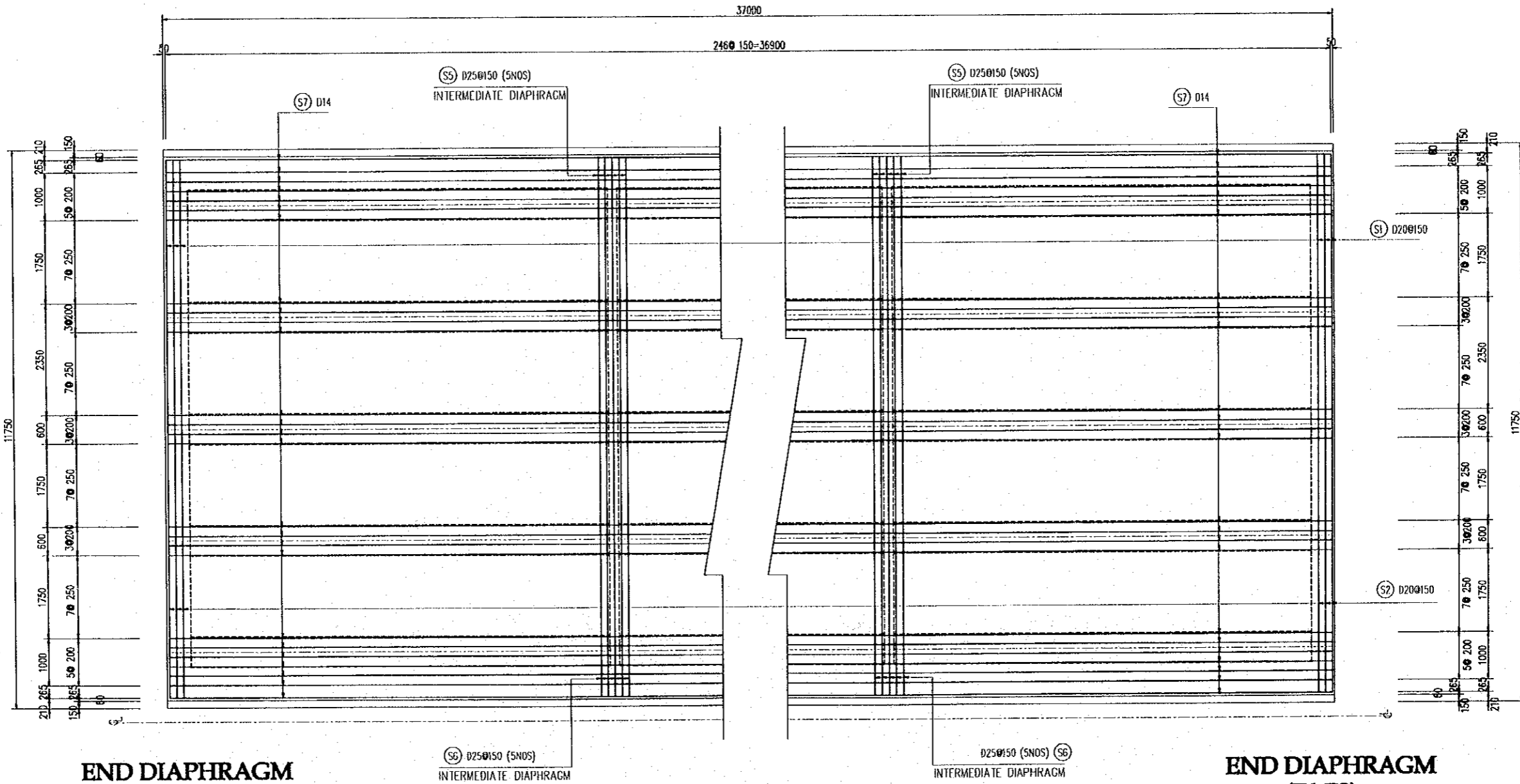
SCALE : 1:100



END DIAPHRAGM (P1,P2)

END DIAPHRAGM (P1,P2)

1/4 SECTION B - B 1/4 SECTION C - C



END DIAPHRAGM (P1,P2)

PLAN SCALE 1:100

END DIAPHRAGM (P1,P2)

NOTES:

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BR3/0030

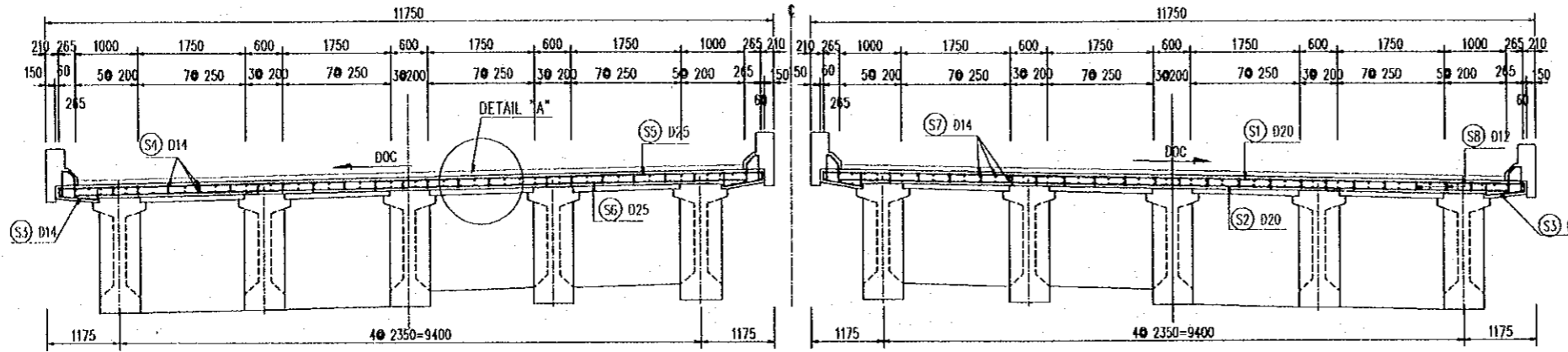
| PROJECT NAME | IMPLEMENTATION AGENCY | EXECUTING AGENCY | JICA STUDY TEAM | PREPARED BY | CHECKED BY | APPROVED BY | DRAWING TITLE | DWG NO. |
|--|--|---|---------------------------|-------------|-------------|-------------|---|--------------|
| DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT | 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. | T. Kametani | K.Matsumoto | K. Enomoto | CAI NAI BRIDGE SUPERSTRUCTURE DECK SLAB REINFORCEMENT - SHEET 3 | P3/BR.5/0200 |
| | | | | NAME | | | | |
| | | | | SIGNATURE | | | | |
| | | | | DATE | 20/9/2000 | 29/9/2000 | 5/10/2000 | |

1/4 SECTION
AT END DIAPHRAGM

1/4 SECTION AT
INTERMEDIATE DIAPHRAGM

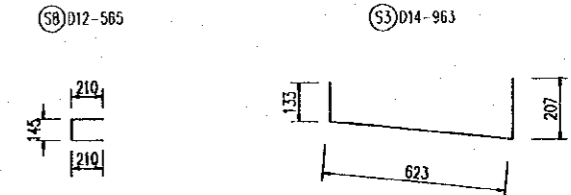
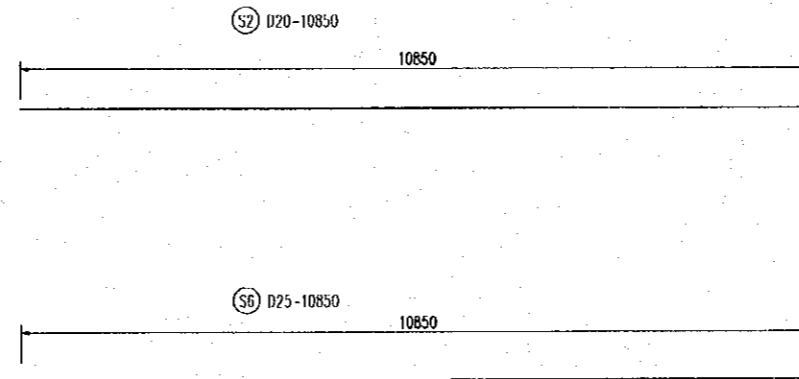
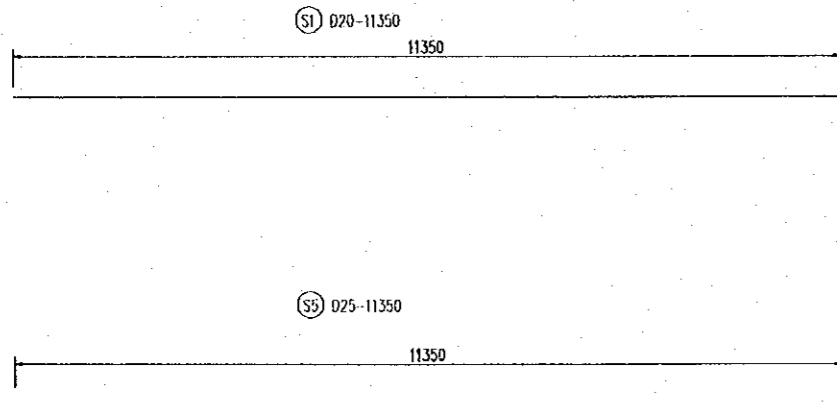
1/4 SECTION AT
INTERMEDIATE DIAPHRAGM

1/4 SECTION
AT END DIAPHRAGM

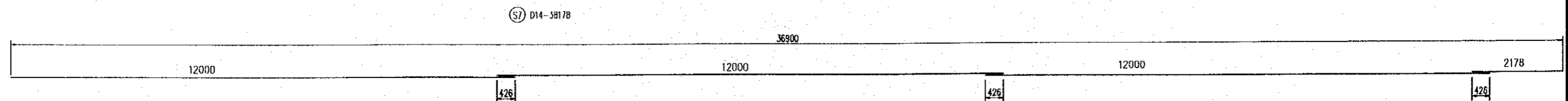
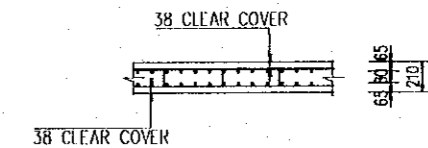


LIST OF REINFORCEMENT

| TYPE | DIAMETER (mm) | LENGTH (mm) | NUMBER | UNITWEIGHT (kg/m) | WEIGHT (kg) |
|--------|---------------|-------------|---------|-------------------|-------------|
| S1 | D20 | 11350 | 232 | 2.466 | 24014.6 |
| S2 | D20 | 10850 | 232 | 2.466 | 22956.7 |
| S3 | D14 | 963 | 494 | 1.208 | 2112.6 |
| S4 | D14 | 25752 | 200 | 1.208 | 7671.3 |
| S5 | D25 | 11350 | 15 | 3.854 | 2186.6 |
| S6 | D25 | 10850 | 15 | 3.854 | 2090.3 |
| S7 | D12 | 565 | 1452 | 0.888 | 5669.4 |
| TOTAL: | | 21518.0 | (KG) | | |
| | | D25 | 1282.5 | (KG) | |
| | | D20 | 12713.6 | (KG) | |
| | | D14 | 6793.0 | (KG) | |
| | | D12 | 728.9 | (KG) | |
| | | | | CONCRETE : | 335.8(M3) |



DETAIL "A"
SCALE 1:50

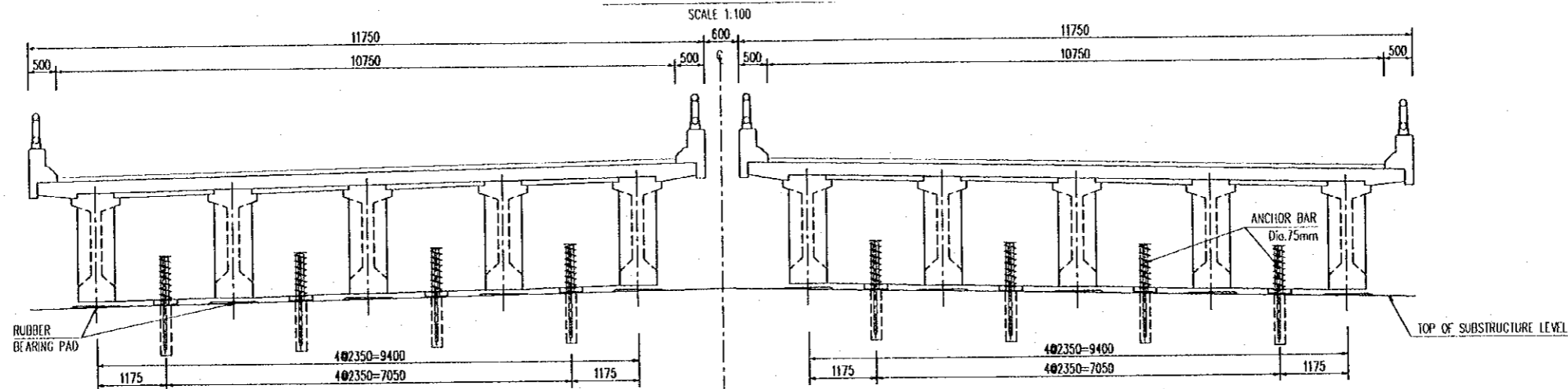


NOTES:

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO.P1/BR3/0030

| 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. | T. Kametani | K. Matsumoto | K. Enomoto | TRA ON BRIDGE SUPERSTRUCTURE DECK SLAB REINFORCEMENT - SHEET 4 | P3/BR5/0210 |
| | | | | NAME | | | | |
| | | | | SIGNATURE | | | | |
| | | | | DATE | 20/9/2000 | 29/9/2000 | 5/10/2000 | |

CROSS SECTION



BEARING PERFORMANCE REQUIREMENTS

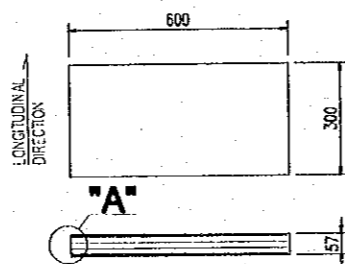
| LOCATION | SERVICEABILITY | |
|------------------|--------------------|---------|
| | VERTICAL LOAD (kN) | |
| | MAXIMUM | MINIMUM |
| MOVABLE BEARINGS | 1 180 | 5.35 |

QUANTITY TABLE (FOR ENTIRE BRIDGE)

| | ITEMS | UNIT | SERVICEABILITY |
|----------|----------------------|------|----------------|
| BEARINGS | 600x300x57(mm) | SET | 20 |
| | 500x250x50(mm) | SET | 40 |
| | ANCHOR BAR Dia. 75mm | SET | 48 |

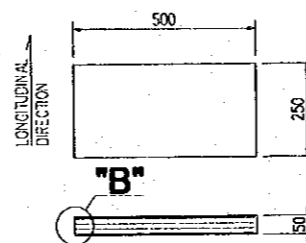
ELASTOMERIC BEARING OF GIRDER L=37M

SCALE 1:20



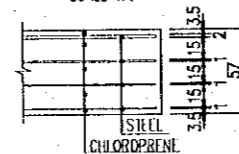
ELASTOMERIC BEARING OF GIRDER L=28M

SCALE 1:20



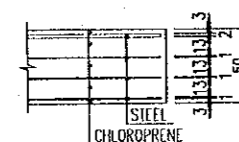
DETAIL "A"

SCALE 1:5

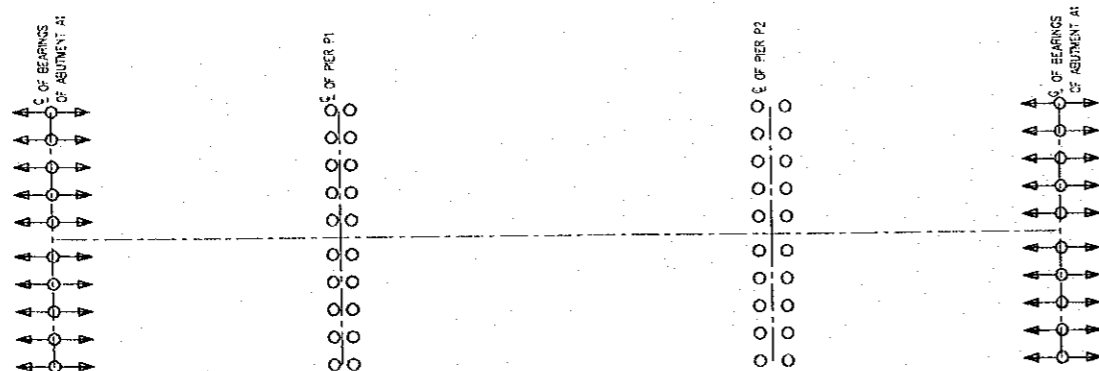


DETAIL "B"

SCALE 1:5



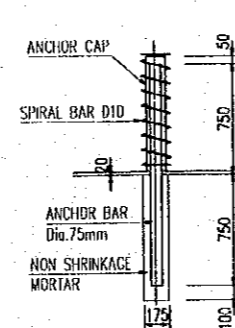
BEARING LAYOUT



SYMBOLS:

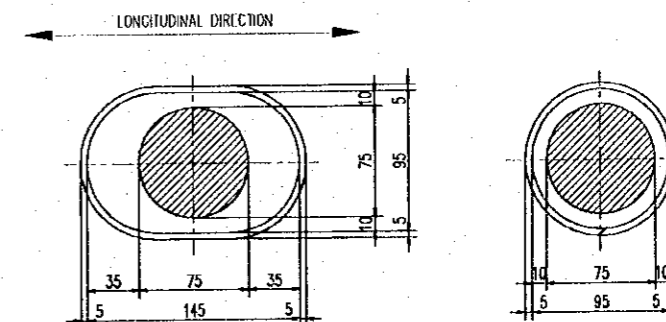
- ○ → DENOTES GUIDE SLIDING BEARING (IN THE DIRECTION GIVEN BY THE ARROWS)
- DENOTES GUIDE SLIDING FIXED BEARING

ANCHOR BAR



ANCHOR CAP

SCALE 1:5

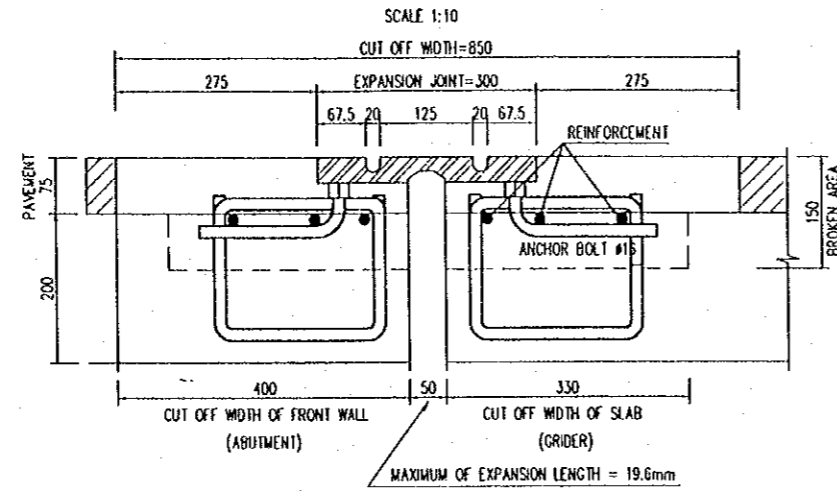


NOTES

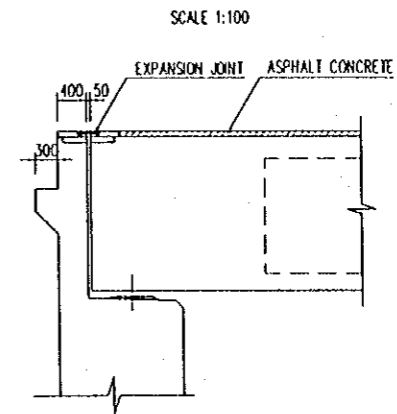
- FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P3/BR5/0030.

| 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 | NIPPON KOEI CO.,LTD. | T. Kametani | K. Matsumoto | K. Enomoto | CAI NAI BRIDGE SUPERSTRUCTURE DETAILS OF BEARINGS | P3/BR5/0220 |
| | | | | NAME: T. Kametani | NAME: K. Matsumoto | NAME: K. Enomoto | | |
| | | | | SIGNATURE: [Signature] | SIGNATURE: [Signature] | SIGNATURE: [Signature] | | |
| | | | | DATE: 20/9/2000 | DATE: 29/9/2000 | DATE: 5/10/2000 | | |

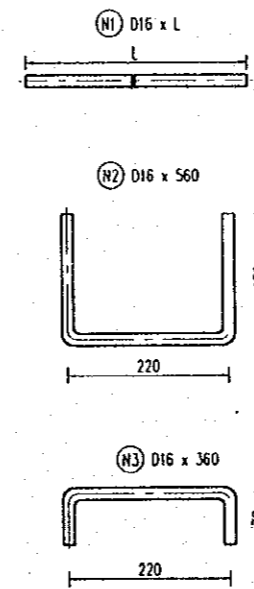
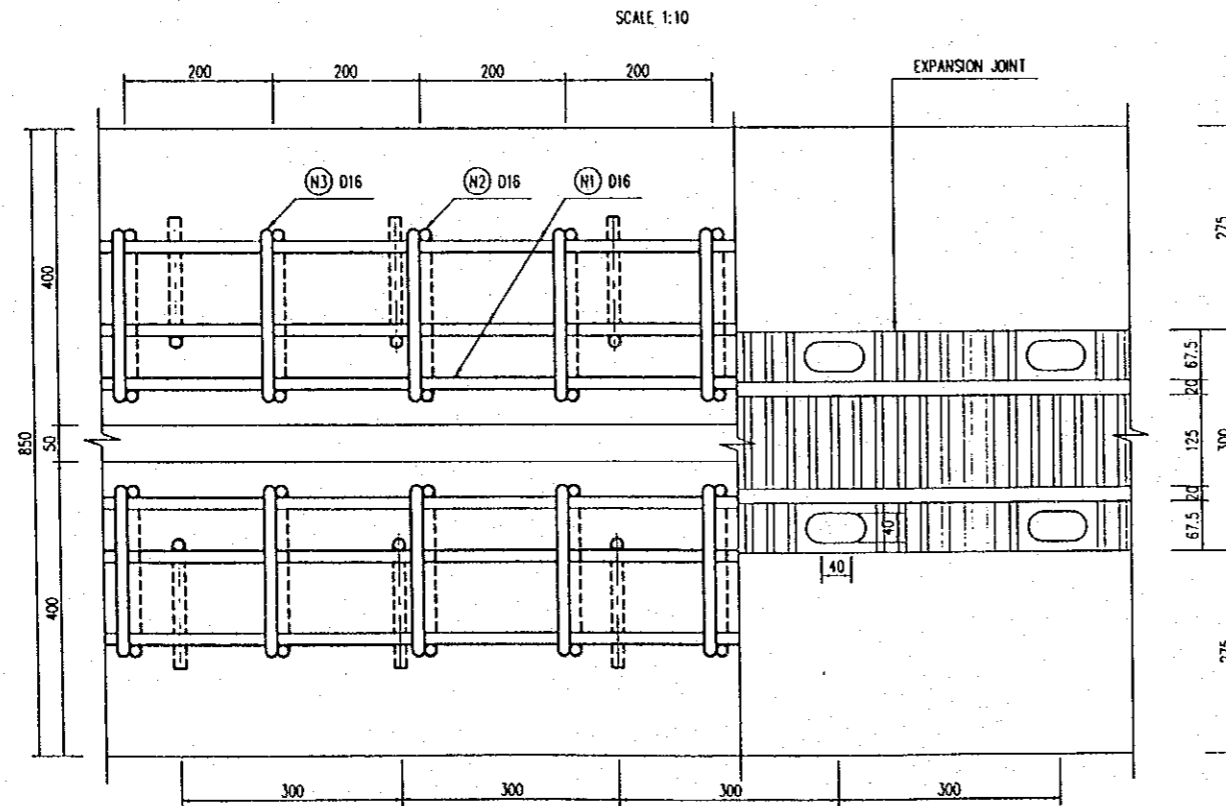
FOR ABUTMENT



DETAIL AT ABUTMENT



PLAN OF EXPANSION JOINT



QUANTITY TABLE(Per m)

| ITEMS | KIND OR SIZE | QUANTITY | REMARKS |
|-----------------|-----------------|----------|----------------|
| EXPANSION JOINT | NEOPRENE RUBBER | 1M | JS-K-6301 |
| ANCHOR BOLT | #16 L = 272 mm | | Ø300 |
| NUT | NEOPRENE RUBBER | | |
| WASHER | NEOPRENE RUBBER | | |
| REINFORCEMENT | (N1) 3 - D16 | 4.72 kg | L=11.45 m, N=3 |
| | (N2) 5 - D16 | 4.42 kg | Ø200 |
| | (N3) 5 - D16 | 2.84 kg | Ø200 |
| CUT OFF | PAVEMENT | 0.057 m3 | |
| | SLAB | 0.050 m3 | |
| CONCRETE | B - 1 | 0.095 m3 | CAST IN PLACE |

NOTES:

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR5/0030.

| 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. | T. Kametani | K. Matsumoto | K. Enomoto | CAI NAI BRIDGE SUPERSTRUCTURE DETAILS OF EXPANSION JOINTS | 230 P3/BR5/0250 |
| | | | | SIGNATURE | SIGNATURE | SIGNATURE | | |
| | | | | DATE | DATE | DATE | | |

QUANTITY TABLE OF SUPERSTRUCTURE

| ITEMS | | UNIT | TOTAL |
|-------------------------------------|--------------------------------|----------------|----------|
| A- BEAM | | | |
| CONCRETE | GIRDER CONCRETE CLASS B | m ³ | 703.2 |
| | PRECAST CONCRETE PLATE CLASS D | m ³ | 101.2 |
| | DIAPHRAGM CLASS D | m ³ | 137.0 |
| | DECK SLAB CLASS D | m ³ | 458.2 |
| ASPHALT CONCRETE OF 70 MM THICKNESS | | m ² | 2010.3 |
| WATER PROOFING OF 5 MM THICKNESS | | m ² | 2010.3 |
| CABLE | CABLES 12S12.7 | m | 3503.8 |
| | CABLES 3S12.7 | m | 522.6 |
| ANCHORAGE | ANCHORAGE CABLES 12S12.7 | set | 220.0 |
| | ANCHORAGE CABLES 3S12.7 | set | 104.0 |
| SHEATHING | CABLES 12S12.7 # 80/85 MM | m | 3503.8 |
| | CABLES 3S12.7 # 50/55 MM | m | 522.6 |
| CEMENT GROUT IN SHEATHING | | m ³ | 18.6 |
| STEEL SHEAR KEY | | set | 240.0 |
| REINFORCEMENT | | D25 | 5987.6 |
| | | D22 | 30869.2 |
| | | D20 | 64380.4 |
| | | D16 | 7917.5 |
| | | D14 | 126861.1 |
| | | D12 | 7814.3 |
| | | D10 | 12482.0 |
| | | TOTAL | 256312.1 |
| B- EXPANSION JOINT 50 MM | | m | 86.0 |
| C-BEARING | 500x250x50 | set | 40.0 |
| | 600x300x57 | set | 20.0 |
| D- ANCHORAGE BAR | | set | 48.0 |

NOTES

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P3/BR5/0030.

| | | | | | | | | | |
|--|---|---|------------------------|--|--|-------------------------------|-----------------------------|---|----------------|
| 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: T. Kametani SIGNATURE: DATE: 20/9/2000 | K. Matsumoto 29/9/2000 | K. Enomoto 5/10/2000 | CAI NAI BRIDGE SUPERSTRUCTURE QUANTITY TABLES OF SUPERSTRUCTURE | P3/BR5/0240 |