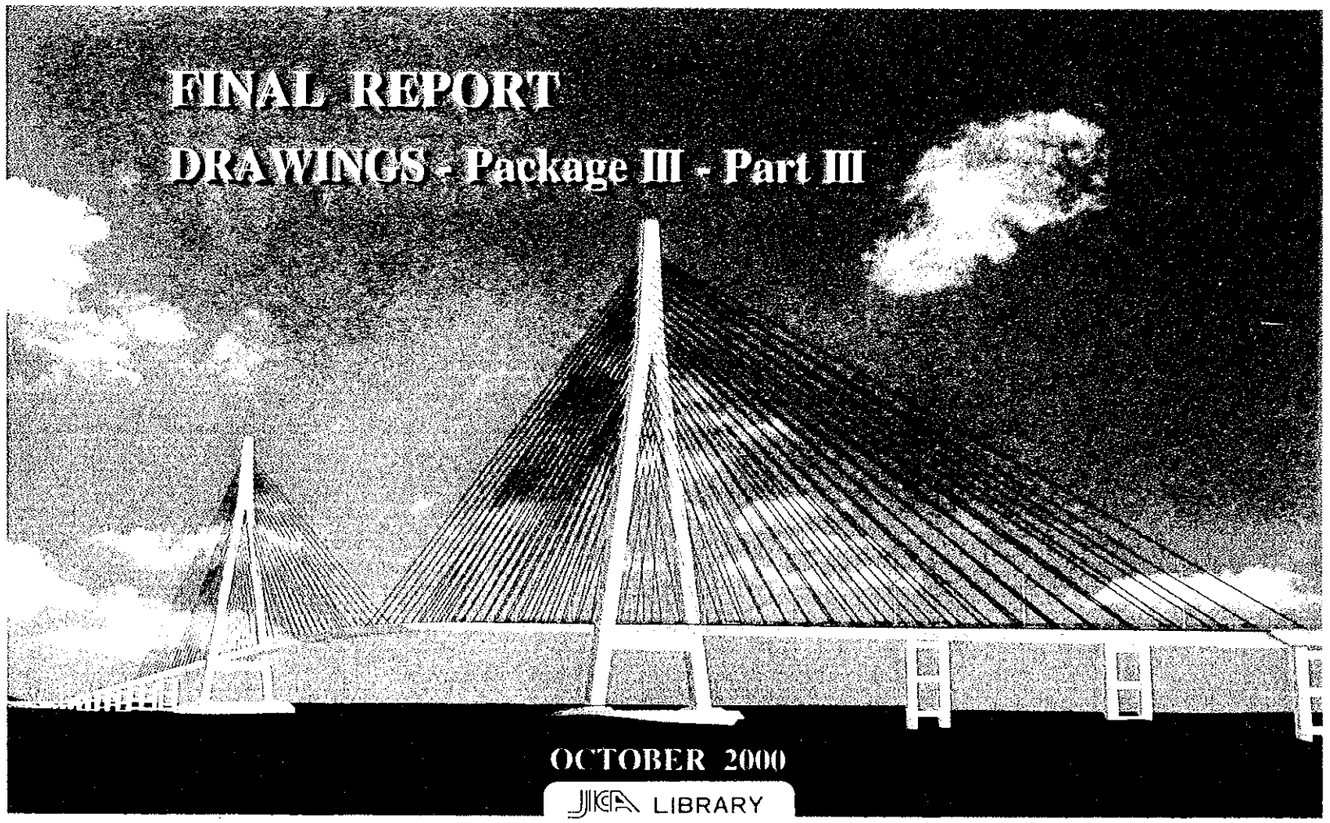
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
MINISTRY OF TRANSPORT
SOCIALIST REPUBLIC OF VIET NAM

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



OCTOBER 2000

NIPPON KOEI CO., LTD.

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 III - Part III

OCTOBER 2000

NIPPON KOEI CO., LTD.

PACKAGE III (PART – 3)

P3/BR4	BA MANG BRIDGE
P3/BR5	CAI NAI BRIDGE
P3/BR6	AP MY BRIDGE

DRAWING LIST (1/2)

DRAWING NO.	DRAWING TITLE
P3/BR4	BA MANG BRIDGE
	GENERAL
P3/BR4/0010	DRAWING LIST
P3/BR4/0020	ABBREVIATIONS AND SYMBOLS
P3/BR4/0030	STRUCTURAL NOTES
P3/BR4/0040	LOCATION MAP
P3/BR4/0050	COORDINATES OF BRIDGE
P3/BR4/0060	GENERAL VIEW - SHEET 1
P3/BR4/0070	GENERAL VIEW - SHEET 2
P3/BR4/0080	QUANTITY TABLE OF BRIDGE
	SUPERSTRUCTURE
P3/BR4/0090	GENERAL VIEW OF GIRDER L=25.0M
P3/BR4/0100	TENDON ARRANGEMENT OF GIRDER L=25.0M
P3/BR4/0110	REINFORCEMENT OF GIRDER L=25.0M
P3/BR4/0120	REINFORCEMENT OF DIAPHRAGMS
P3/BR4/0130	DECK SLAB REINFORCEMENT - SHEET 1
P3/BR4/0140	DECK SLAB REINFORCEMENT - SHEET 2
P3/BR4/0150	DETAILS OF BEARINGS
P3/BR4/0160	DETAILS OF EXPANSION JOINTS
P3/BR4/0170	QUANTITY TABLE OF SUPERSTRUCTURE
	ABUTMENTS
P3/BR4/0180	GENERAL VIEW OF ABUTMENTS A1 & A2
P3/BR4/0190	ABUTMENTS A1 & A2 - RC PILE □450 - L=40.0M - SHEET 1
P3/BR4/0200	ABUTMENTS A1 & A2 - RC PILE □450 - L=40.0M - SHEET 2
P3/BR4/0210	REINFORCEMENT ABUTMENTS A1 & A2 - SHEET 1
P3/BR4/0220	REINFORCEMENT ABUTMENTS A1 & A2 - SHEET 2
P3/BR4/0230	REINFORCEMENT ABUTMENTS A1 & A2 - SHEET 3
P3/BR4/0240	EARTHWORKS SLOPE PROTECTION
P3/BR4/0250	DETAILS OF APPROACH SLAB
P3/BR4/0260	QUANTITY TABLE OF ABUTMENTS
	MISCELLANEOUS
P3/BR4/0270	DETAILS OF PARAPET AND RAILINGS
P3/BR4/0280	BRIDGE NAME PLAQUE
P3/BR4/0290	DRAINAGE LAYOUT
P3/BR4/0300	DETAILS OF DRAINAGE ON BRIDGE
P3/BR4/0310	QUANTITY TABLE OF MISCELLANEOUS WORKS
P3/BR5	CAI NAI BRIDGE
	GENERAL
P3/BR5/0010	DRAWING LIST
P3/BR5/0020	ABBREVIATIONS AND SYMBOLS
P3/BR5/0030	STRUCTURAL NOTES
P3/BR5/0040	LOCATION MAP
P3/BR5/0050	COORDINATES OF BRIDGE
P3/BR5/0060	GENERAL VIEW - SHEET 1
P3/BR5/0070	GENERAL VIEW - SHEET 2
P3/BR5/0080	QUANTITY TABLE OF BRIDGE
	SUPERSTRUCTURE
P3/BR5/0090	GIRDER LAYOUT

DRAWING NO.	DRAWING TITLE
P3/BR5/0100	GENERAL VIEW OF "I" GIRDER L=28.0M
P3/BR5/0110	GENERAL VIEW OF "I" GIRDER L=37.0M
P3/BR5/0120	TENDONS ARRANGEMENT OF "I" GIRDER L=28.0M
P3/BR5/0130	TENDONS ARRANGEMENT OF "I" GIRDER L=37.0M
P3/BR5/0140	TENDONS ARRANGEMENT OF CONNECTION DIAPHRAGMS
P3/BR5/0150	REINFORCEMENT OF "I" GIRDER L=28.0M
P3/BR5/0160	REINFORCEMENT OF "I" GIRDER L=37.0M
P3/BR5/0170	REINFORCEMENT OF DIAPHRAGMS
P3/BR5/0180	DECK SLAB REINFORCEMENT - SHEET 1
P3/BR5/0190	DECK SLAB REINFORCEMENT - SHEET 2
P3/BR5/0200	DECK SLAB REINFORCEMENT - SHEET 3
P3/BR5/0210	DECK SLAB REINFORCEMENT - SHEET 4
P3/BR5/0220	DETAILS OF BEARINGS
P3/BR5/0230	DETAILS OF EXPANSION JOINTS
P3/BR5/0240	QUANTITY TABLE OF SUPERSTRUCTURE
	ABUTMENTS
P3/BR5/0250	GENERAL VIEW OF ABUTMENTS A1 & A2
P3/BR5/0260	ABUTMENTS A1 & A2 RC PILE □450 L=40.0M SHEET 1
P3/BR5/0270	ABUTMENTS A1 & A2 RC PILE □450 L=40.0M SHEET 2
P3/BR5/0280	REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 1
P3/BR5/0290	REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 2
P3/BR5/0300	REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 3
P3/BR5/0310	EARTHWORKS SLOPE PROTECTION - SHEET 1
P3/BR5/0320	EARTHWORKS SLOPE PROTECTION - SHEET 2
P3/BR5/0330	DETAILS OF APPROACH SLAB
P3/BR5/0340	QUANTITY TABLE OF ABUTMENTS
	PIERS
P3/BR5/0350	GENERAL VIEW OF PIERS P1 & P2
P3/BR5/0360	PIER P1 - BORED PILE DETAILS, L=66.0M
P3/BR5/0370	PIER P2 - BORED PILE DETAILS, L=55.0M
P3/BR5/0380	REINFORCEMENT OF PIERS P1 & P2 - SHEET 1
P3/BR5/0390	REINFORCEMENT OF PIERS P1 & P2 - SHEET 2
P3/BR5/0400	PIERS PROTECTION
P3/BR5/0410	QUANTITY TABLE OF PIERS
	MISCELLANEOUS
P3/BR5/0420	DETAILS OF PARAPET AND RAILINGS
P3/BR5/0430	BRIDGE NAME PLAQUE
P3/BR5/0440	DRAINAGE AND LIGHTING POLES LAYOUT
P3/BR5/0450	DETAILS OF DRAINAGE ON BRIDGE
P3/BR5/0460	DETAILS OF LIGHTING POLE BASES
P3/BR5/0470	QUANTITY TABLE OF MISCELLANEOUS WORKS
P3/BR6	AP MY BRIDGE
	GENERAL
P3/BR6/0010	DRAWING LIST
P3/BR6/0020	ABBREVIATION AND SYMBOLS
P3/BR6/0030	STRUCTURAL NOTES
P3/BR6/0040	LOCATION MAP
P3/BR6/0050	COORDINATES OF BRIDGE

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	K.Matsumoto	K. Enomoto	GENERAL DRAWING LIST (PART - 3) (1/2)	P3/PA3/0010
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

DRAWING LIST (2/2)

DRAWING NO.	DRAWING TITLE
P3/BR6/0060	GENERAL VIEW - SHEET 1
P3/BR6/0070	GENERAL VIEW - SHEET 2
P3/BR6/0080	GENERAL VIEW - SHEET 3
P3/BR6/0090	QUANTITY TABLE OF BRIDGE
	SUPERSTRUCTURE
P3/BR6/0100	GIRDER LAYOUT - SHEET 1
P3/BR6/0110	GIRDER LAYOUT - SHEET 2
P3/BR6/0120	GENERAL VIEW OF "I" GIRDER L=25.0M, H=1.45M
P3/BR6/0130	GENERAL VIEW OF "I" GIRDER L=25.0M, H=1.65M
P3/BR6/0140	GENERAL VIEW OF "I" GIRDER L=28.0M
P3/BR6/0150	GENERAL VIEW OF "I" GIRDER L=37.0M
P3/BR6/0160	TENDON ARRANGEMENT OF "I" GIRDER L=25.0M, H=1.45M
P3/BR6/0170	TENDON ARRANGEMENT OF "I" GIRDER L=25.0M, H=1.65M
P3/BR6/0180	TENDON ARRANGEMENT OF "I" GIRDER L=28.0M
P3/BR6/0190	TENDON ARRANGEMENT OF "I" GIRDER L=37.0M
P3/BR6/0200	TENDON ARRANGEMENT OF CONNECTION DIAPHRAGMS
P3/BR6/0210	REINFORCEMENT OF "I" GIRDER L=25.0M, H=1.45M
P3/BR6/0220	REINFORCEMENT OF "I" GIRDER L=25.0M, H=1.65M
P3/BR6/0230	REINFORCEMENT OF "I" GIRDER L=28.0M
P3/BR6/0240	REINFORCEMENT OF "I" GIRDER L=37.0M
P3/BR6/0250	REINFORCEMENT OF DIAPHRAGMS - SHEET 1
P3/BR6/0260	REINFORCEMENT OF DIAPHRAGMS - SHEET 2
P3/BR6/0270	DECK SLAB REINFORCEMENT - SHEET 1
P3/BR6/0280	DECK SLAB REINFORCEMENT - SHEET 2
P3/BR6/0290	DECK SLAB REINFORCEMENT - SHEET 3
P3/BR6/0300	DECK SLAB REINFORCEMENT - SHEET 4
P3/BR6/0310	DECK SLAB REINFORCEMENT - SHEET 5
P3/BR6/0320	DECK SLAB REINFORCEMENT - SHEET 6
P3/BR6/0330	DETAILS OF BEARINGS
P3/BR6/0340	DETAILS OF EXPANSION JOINTS
P3/BR6/0350	QUANTITY TABLES OF SUPERSTRUCTURE
	ABUTMENTS
P3/BR6/0360	GENERAL VIEW OF ABUTMENTS A1 & A2
P3/BR6/0370	ABUTMENTS A1 & A2 - RC PILE □ 450 - L=40.0M - SHEET 1
P3/BR6/0380	ABUTMENTS A1 & A2 - RC PILE □ 450 - L=40.0M - SHEET 2
P3/BR6/0390	REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 1
P3/BR6/0400	REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 2
P3/BR6/0410	REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 3
P3/BR6/0420	EARTHWORK SLOPE PROTECTION
P3/BR6/0430	DETAILS OF APPROACH SLAB
P3/BR6/0440	QUANTITY TABLE OF ABUTMENTS
	PIERS
P3/BR6/0450	GENERAL VIEW OF PIERS P1 & P4
P3/BR6/0460	GENERAL VIEW OF PIERS P2 & P3
P3/BR6/0470	PIERS P1 - P4 - RC PILE □ 450 - L=40.0M - SHEET 1
P3/BR6/0480	PIERS P1 - P4 - RC PILE □ 450 - L=40.0M - SHEET 2
P3/BR6/0490	BAR ARRANGEMENT OF PIERS P1 & P4 - SHEET 1
P3/BR6/0500	BAR ARRANGEMENT OF PIERS P1 & P4 - SHEET 2
P3/BR6/0510	BAR ARRANGEMENT OF PIERS P2 & P3 - SHEET 1

DRAWING NO.	DRAWING TITLE
P3/BR6/0520	BAR ARRANGEMENT OF PIERS P2 & P3 - SHEET 2
P3/BR6/0530	PIER PROTECTION
P3/BR6/0540	QUANTITY TABLE OF PIERS
	MISCELLANEOUS
P3/BR6/0550	DETAILS OF PARAPET AND RAILINGS
P3/BR6/0560	BRIDGE NAME PLAQUE
P3/BR6/0570	DRAINAGE AND LIGHTING POLE LAYOUT
P3/BR6/0580	DETAILS OF DRAINAGE ON BRIDGE
P3/BR6/0590	DETAILS OF LIGHTING POLE BASES
P3/BR6/0600	QUANTITY TABLE OF MISCELLANEOUS

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				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

P3/BR4 BA MANG BRIDGE

I. GENERAL

DRAWING LIST

NO.	CODE	DRAWING NAME
I		GENERAL
1	P3/BR4/0010	DRAWING LIST
2	P3/BR4/0020	ABBREVIATIONS AND SYMBOLS
3	P3/BR4/0030	STRUCTURAL NOTES
4	P3/BR4/0040	LOCATION MAP
5	P3/BR4/0050	COORDINATES OF BRIDGE
6	P3/BR4/0060	GENERAL VIEW - SHEET 1
7	P3/BR4/0070	GENERAL VIEW - SHEET 2
8	P3/BR4/0080	QUANTITY TABLE OF BRIDGE
II		SUPERSTRUCTURE
9	P3/BR4/0090	GENERAL VIEW OF GIRDER L=25.0M.
10	P3/BR4/0100	TENDON ARRANGEMENT OF GIRDER L=25.0M.
11	P3/BR4/0110	REINFORCEMENT OF GIRDER L=25.0M.
12	P3/BR4/0120	REINFORCEMENT OF DIAPHRAGMS
13	P3/BR4/0130	DECK SLAB REINFORCEMENT - SHEET 1
14	P3/BR4/0140	DECK SLAB REINFORCEMENT - SHEET 2
15	P3/BR4/0150	DETAILS OF BEARINGS.
16	P3/BR4/0160	DETAILS OF EXPANSION JOINTS
17	P3/BR4/0170	QUANTITY TABLE OF SUPERSTRUCTURE
III		ABUTMENTS
18	P3/BR4/0180	GENERAL VIEW OF ABUTMENTS A1 & A2
19	P3/BR4/0190	ABUTMENTS A1&A2- RC PILE□450-L=40.0m-SHEET 1
20	P3/BR4/0200	ABUTMENTS A1&A2- RC PILE□450-L=40.0m-SHEET 2
21	P3/BR4/0210	REINFORCEMENT OF ABUTMENTS A1& A2 - SHEET 1
22	P3/BR4/0220	REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 2
23	P3/BR4/0230	REINFORCEMENT OF ABUTMENTS A1 & A2 - SHEET 3
24	P3/BR4/0240	EARTHWORKS SLOPE PROTECTION
25	P3/BR4/0250	DETAILS OF APPROACH SLAB
26	P3/BR4/0260	QUANTITY TABLE OF ABUTMENTS
IV		MISCELLANEOUS
27	P3/BR4/0270	DETAILS OF PARAPET AND RAILINGS
28	P3/BR4/0280	BRIDGE NAME PLAQUE
29	P3/BR4/0290	DRAINAGE LAYOUT
30	P3/BR4/0300	DETAILS OF DRAINAGE ON BRIDGE
31	P3/BR4/0310	QUANTITY TABLE OF MISCELLANEOUS WORKS

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM		PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
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ABBREVIATIONS AND SYMBOLS

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

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM		PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
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				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

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, COORDIANATES, 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.

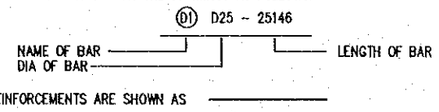
3.4. ALL CONSTRUCTION JOINTS ARE TO BE LOCATED AS SHOWN ON THE DRAWINGS OR AS ENGINEER'S APPROVAL.

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 fy(min) 250 MPa AND HIGH YIELD DEFORMED BARS WITH YIELD STRENGTH NOT LESS THAN fy(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 OTHERWSE 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

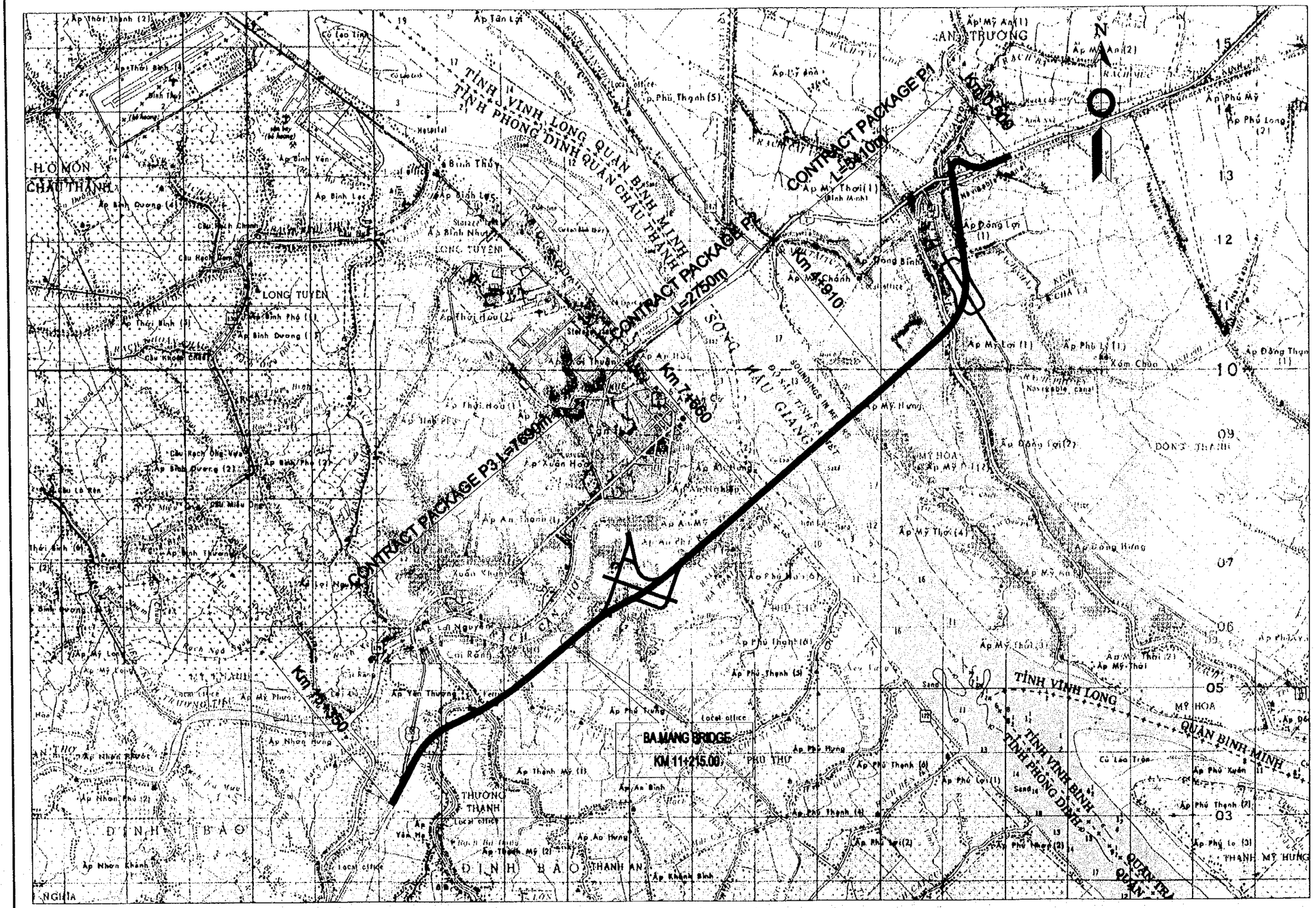
7.1. SUPERSTRUCTURE IS DESIGNED ON THE BASIS OF CONSTRUCTION SEQUENCE DETAILED ON THE DRAWINGS. ANY CHANGES TO THE CONSTRUCTION SEQUENCE WILL REQUIRE A RE-DESIGN OF THE BRIDGE.

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%

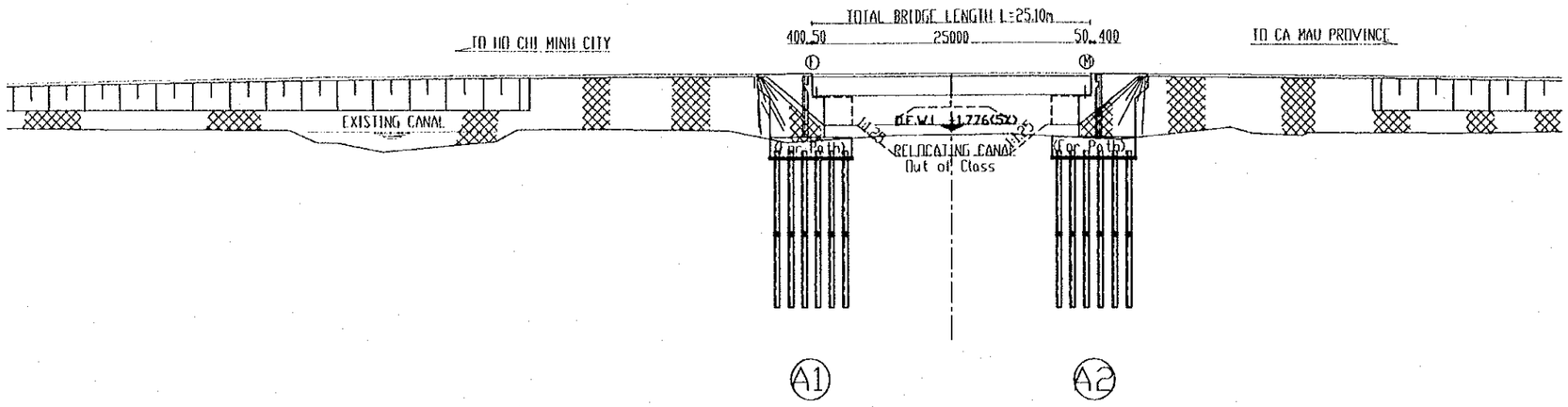
7.3. ANCHOR BAR SHALL BE CONFORMING TO THE REQUIREMENTS OF SS400 OF JIS G3101.

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.	NAME	T. Kametani	K.Matsumoto	K. Enomoto	BA MANG BRIDGE GENERAL STRUCTURAL NOTES	P3/BR4/0030
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

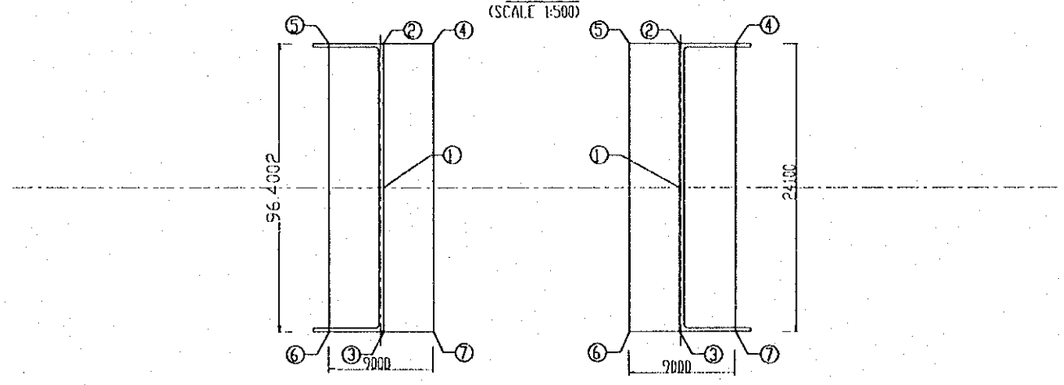


PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM		PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	NAME	T. Kametani	K.Matsumoto	K. Enomoto	BA MANG BRIDGE LOCATION MAP	P3\BR\40040
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

SIDE ELEVATION
(SCALE 1:500)



PLAN
(SCALE 1:500)



COORDINATES TABLE

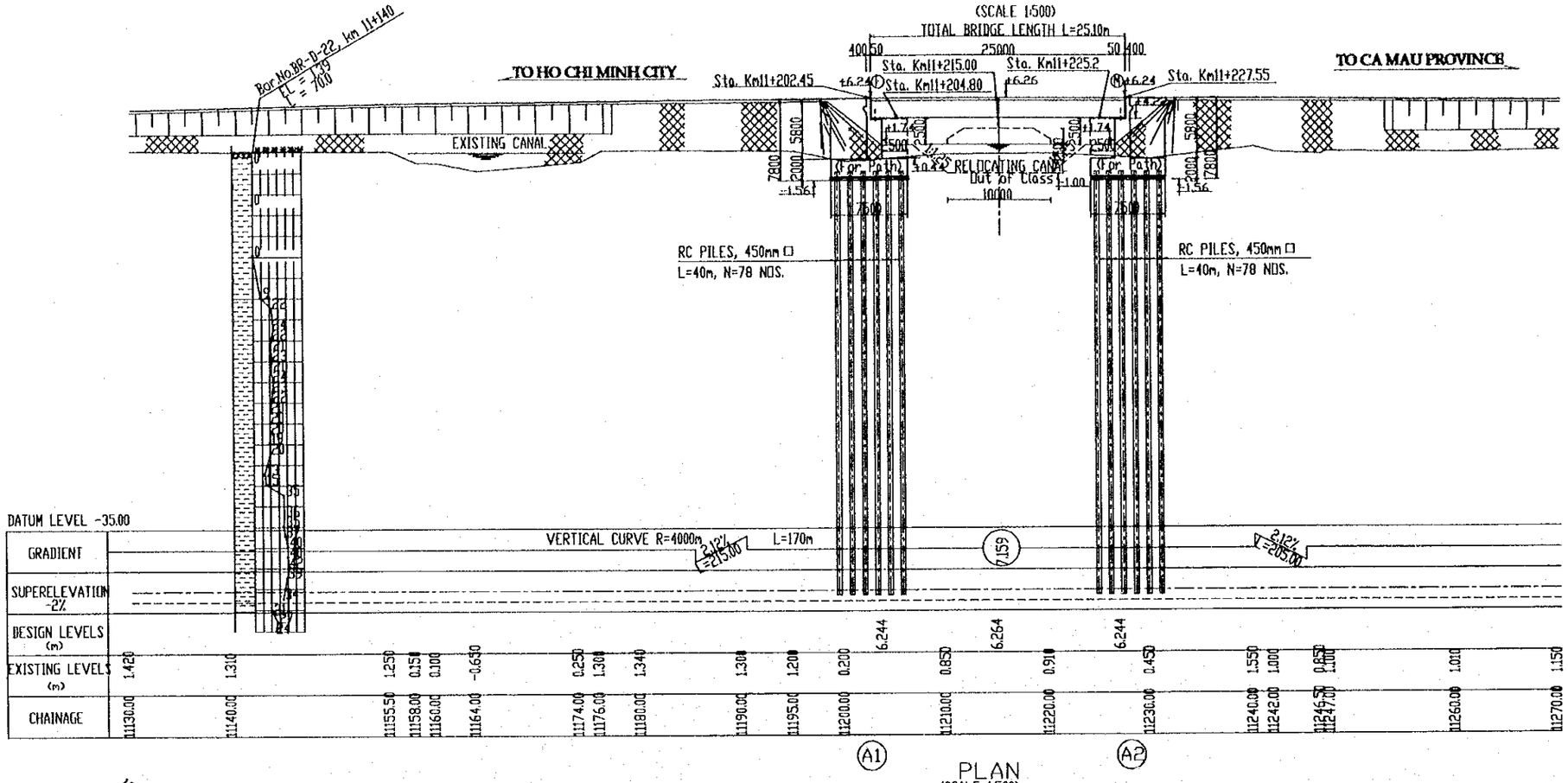
POINT	A 1		A 2	
	N	E	N	E
1	1106737.592	584842.916	1106721.878	584823.344
2	1106728.196	584850.460	1106712.482	584830.888
3	1106746.988	584835.371	1106731.274	584815.799
4	1106725.942	584847.653	1106710.040	584827.847
5	1106730.638	584853.501	1106714.735	584833.695
6	1106749.430	584838.412	1106733.528	584818.607
7	1106744.734	584832.564	1106728.832	584812.758

NOTES
1.FOR STANDARD STRUCTURAL NOTES SEE DRAWING No. P3/BR4/0030.
2.SYMBOLS :
- Ⓕ FIXED BEARING
- Ⓜ MOVABLE BEARING

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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE GENERAL COORDINATES OF BRIDGE	P3/BR4/0050
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

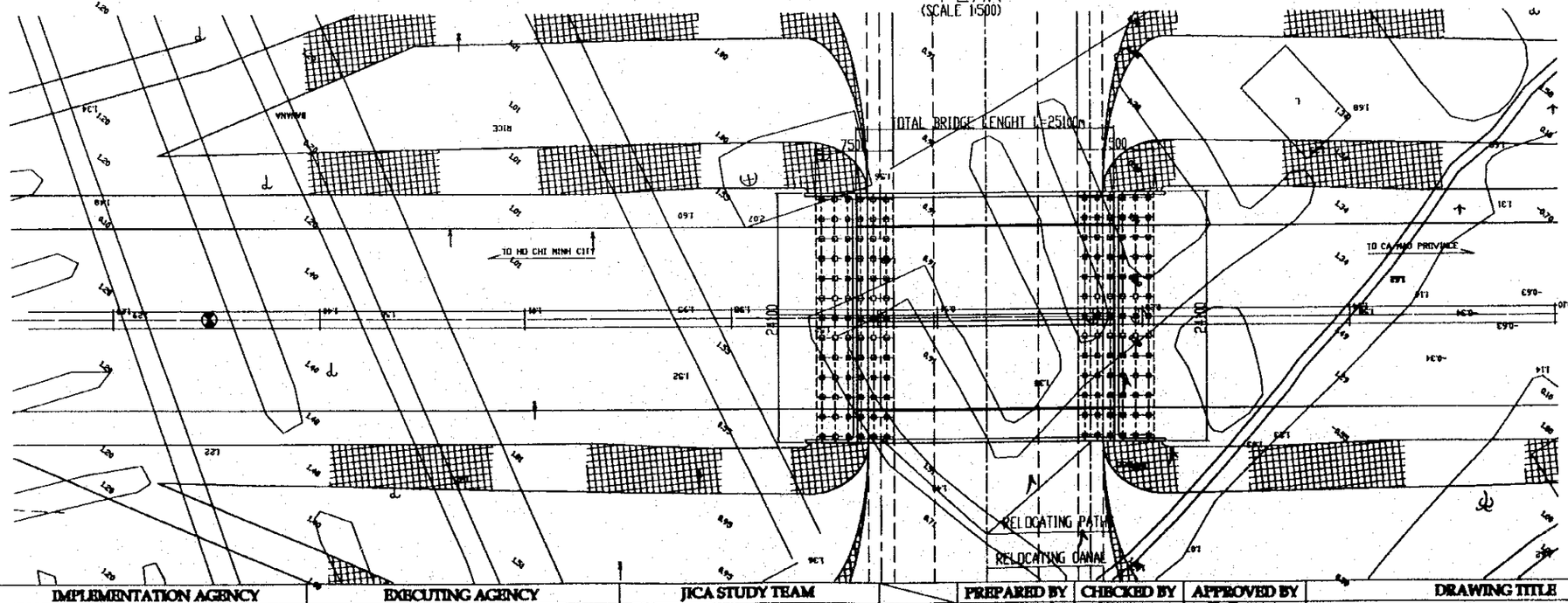
SIDE ELEVATION

(SCALE 1:500)



PLAN

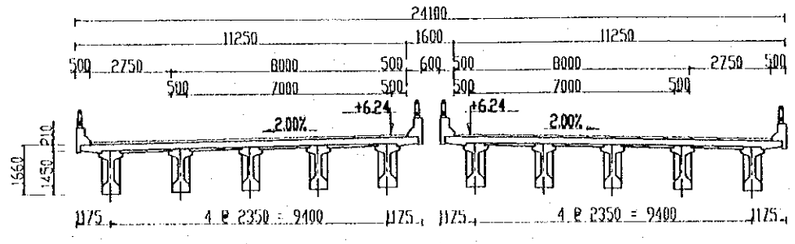
(SCALE 1:500)



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	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	K.Matsumoto	K. Enomoto	BAMANG BRIDGE GENERAL GENERAL VIEW SHEET 1	P3/BR4/0060
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

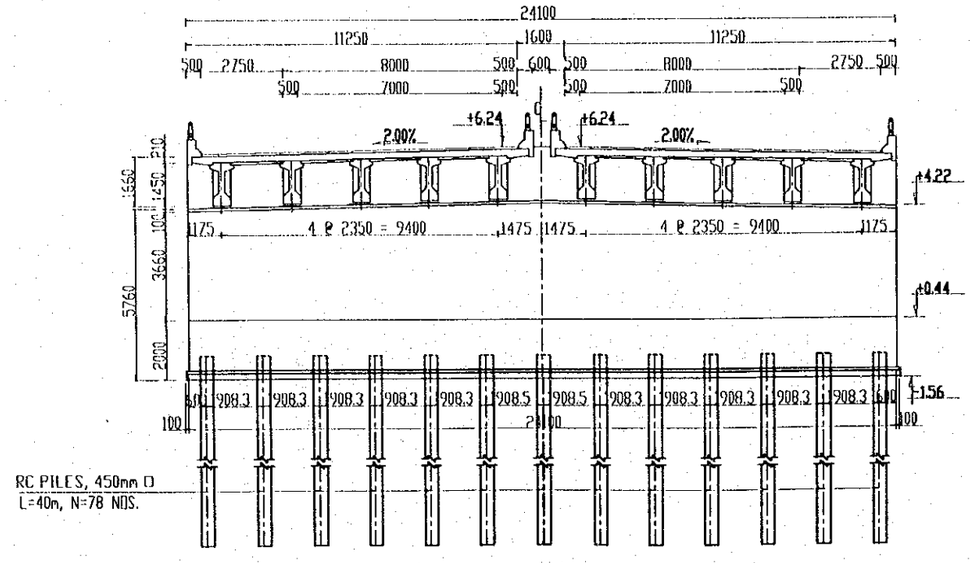
TYPICAL SECTION FOR SUPERSTRUCTURE
AT ABUTMENT A1 & A2

(SCALE 1:200)



CROSS SECTION
(ABUTMENT A1&A2)

(SCALE 1:200)



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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE GEGENERAL GENERAL VIEW SHEET 2	P3/BR4/0070
				SIGNATURES					
				DATE	20/9/2000	29/9/2000	5/10/2000		

QUANTITY TABLE OF BA MANG BRIDGE

ITEMS			UNIT	ABUTMENTS	SUPERSTRUCTURE	MISCELLANEOUS WORKS		TOTAL
						DRAINAGE	RAILING	
CONCRETE	CLASS B		M3		158.8			158.8
	CLASS D		M3	1700.0	174.6			1874.6
	CLASS E		M3	1175.7			26	1201.2
	CLASS G		M3	60.5				60.5
PC – CABLE	12 S12.7		TON		6.9			6.9
SHEATHING	ø 80/85		M		742.6			742.6
	CEMENT GROUT IN SHEATHING		M3		3.7			3.7
ANCHORAGE	CABLES 12S12.7	DEAD	SET					
		LIVE	SET		16			16.0
STEEL SHEAR KEY			SET		60			60.0
REINFORCEMENT	D32		KG	796				796.0
	D28		KG					
	D25		KG	9173	1711			41054
	D22		KG	15161	4447			187834
	D20		KG	22407	18285			40692
	D18		KG					
	D16		KG	10374	2298			30068
	D14		KG	7329	34019		3960	45208
	D12		KG		2095			2095
	D10		KG		68			718
	D8		KG					
	D6		KG	28688	3360			32048
	TOTAL		KG	222565	66283		3960	266741.2
EXPANSION JOINT	50MM		M		43.00			43.0
BEARING	500x250x50		SET		20			20.0
ANCHORAGE BAR	F 75, L=1500		SET		16			16.0
STEEL RAILING			M				119.60	119.6
DRAINAGE	POT		SET			6		6.0
	PIPE ø 180		M			10.44		10.4
PAVEMENT	WATER PROOFING 5MM		M2		539.65			539.7
	ASPHALT CONCRETE 70 MM		M2		539.65			539.7
GEOTEXTILE			M2	1157.44				1157.4
STONE MANSORY			M3	961.11				961.1
BLINDING AGGREGATE			M3	320.28				320.3
RIP RAP			M3					
BLINDING STONE			M3	67.78				67.8
WOODEN PILE L = 3M			M	11862.16				11862.2
EXCAVATION			M3	5024.61				5024.6
EXCAVATION			M3	5024.61				5024.6
BACK FILL			M3	1530.35				1530.3
RC PILE	□ 450MM		M	6240				6240

NOTES

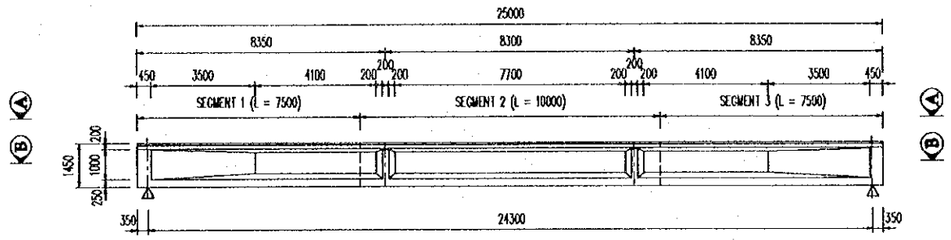
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P3/BR4/0030.

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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE GENERAL QUANTITY TABLE OF BRIDGE	P3/BR4/0060
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

II. SUPERSTRUCTURE

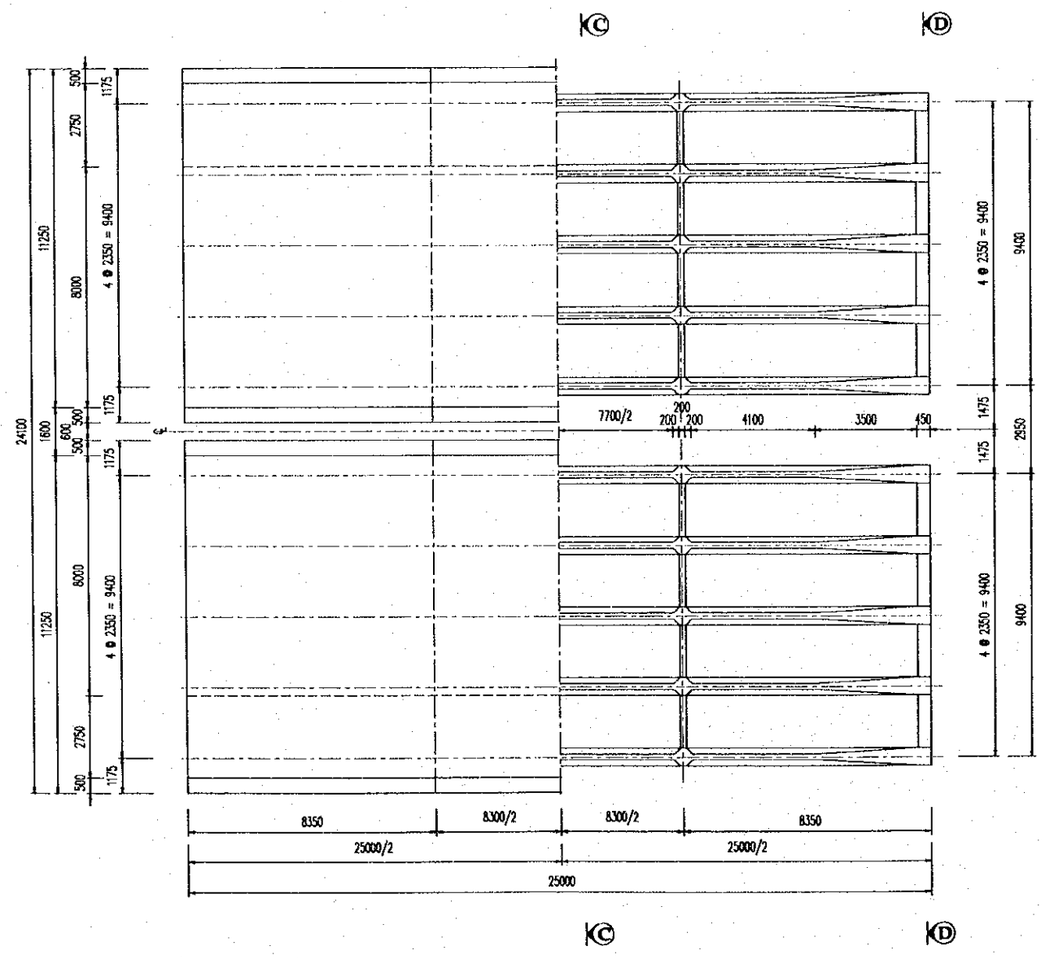
DETAIL OF SUPER STRUCTURE FOR BA MANG BRIDGE
(Ls = 24.3M)

ELEVATION
(SCALE : 1:200)



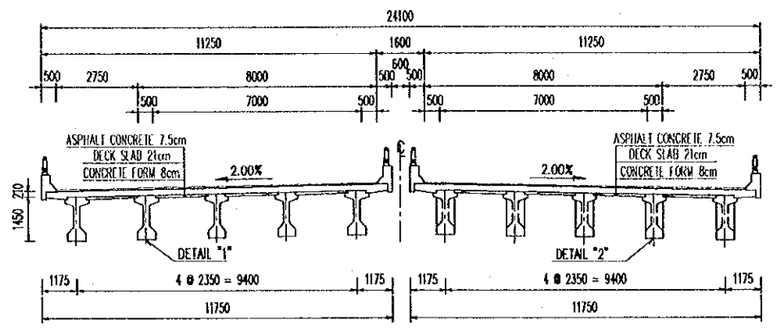
1/2 SECTION A - A
(SCALE : 1:200)

1/2 SECTION B - B
(SCALE : 1:200)

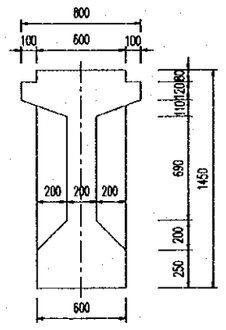


1/2 SECTION C - C
(SCALE : 1:200)

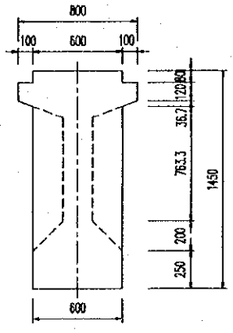
1/2 SECTION D - D
(SCALE : 1:200)



DETAIL "1"
(SCALE : 1:40)



DETAIL "2"
(SCALE : 1:40)

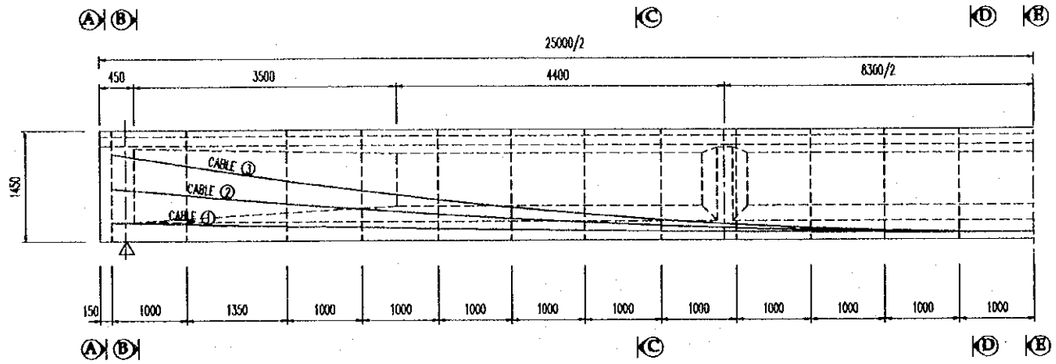


NOTES :

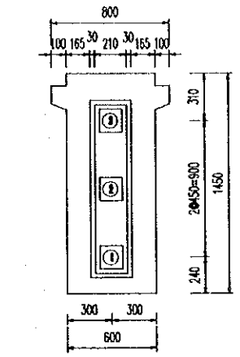
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR4/0030.

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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE SUPERSTRUCTURE GENERAL VIEW OF "T" GIRDER L = 25M	P3/BR4/0090
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

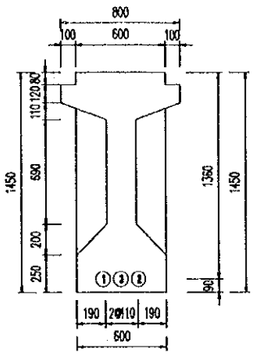
PC CABLE ARRANGEMENT OF GIRDER FOR BA MANG BRIDGE
(Ls = 24.30M)



SECTION A - A
(SCALE : 1:40)



SECTION E - E
(SCALE : 1:40)

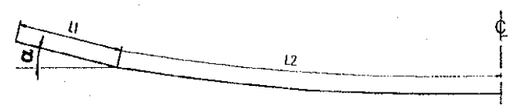


POSITION OF CABLE CENTER FROM BOTTOM OF GIRDER

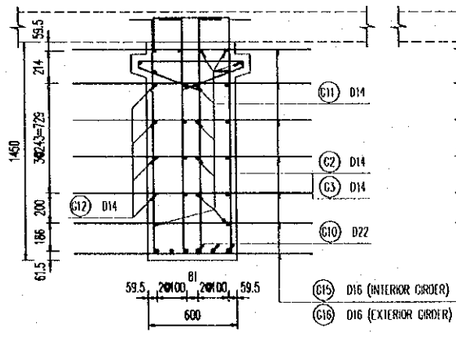
L	12350	11350	10000	9000	8000	7000	6000	5000	4000	3000	2000	1000
CABLE ①	240	218	189	170	153	139	126	115	106	99	94	91
CABLE ②	690	600	486	411	343	284	233	189	153	126	106	94
CABLE ③	1140	983	783	651	533	430	339	263	201	152	118	97

PC CABLE 12 S 12.7				(UNIT : MM)
CABLE No	L1	L2	2x Σ Li	α
①	1000	11351	24702	117'
②	1004	11395	24738	58'
③	1012	11397	24818	8'56'

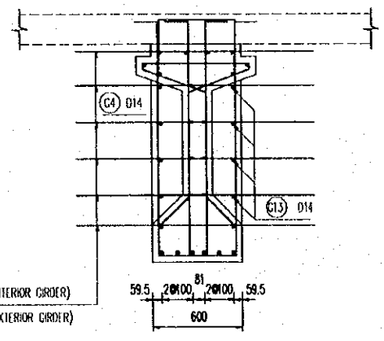
WEIGHT = 74.258 x 9.29 kg/m = 689.9 kg
SHEATHING Ø 80/85 : 74.258 M
ANCHORAGE : (1 BRT1 GIRDER)
CLMENT GROUT IN SHEATHING : 0.373 M3
CONCRETE : 15.88 M3



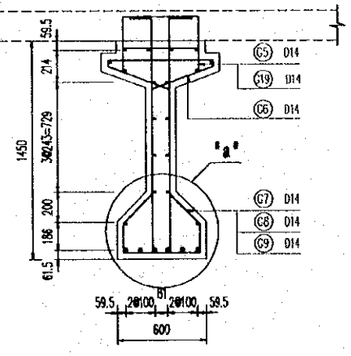
SECTION B - B
(SCALE : 1:40)



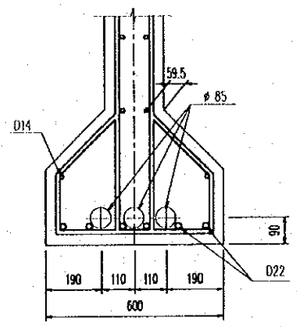
SECTION C - C
(SCALE : 1:40)



SECTION D - D
(SCALE : 1:40)



DETAIL " a "
(SCALE 1 : 20)

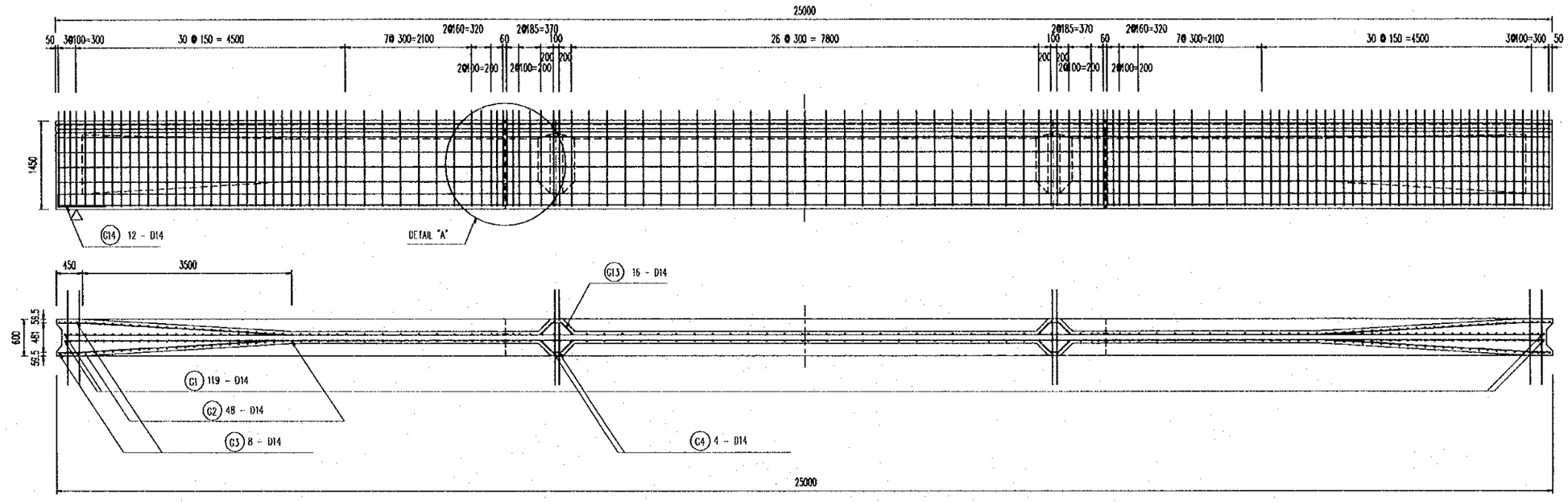


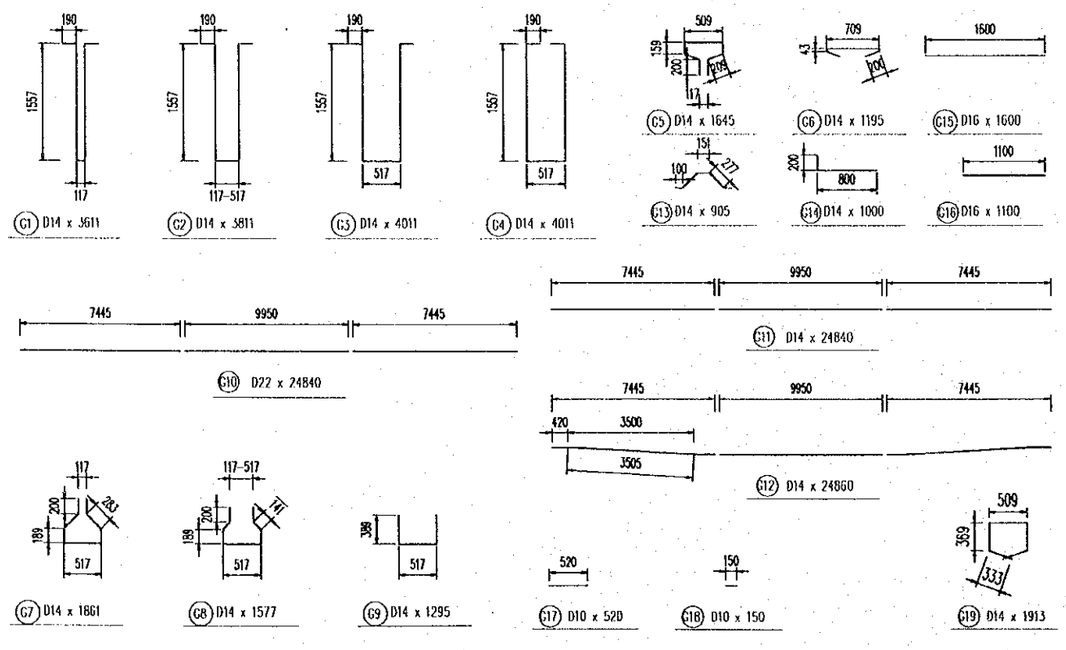
NOTES :

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE SUPERSTRUCTURE TENDON ARRANGEMENT OF "T" GIRDER L=25M	P3/BR4/0100
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

BAR ARRANGEMENT OF GIRDER FOR BA MANG BRIDGE
(Ls = 24.30M)

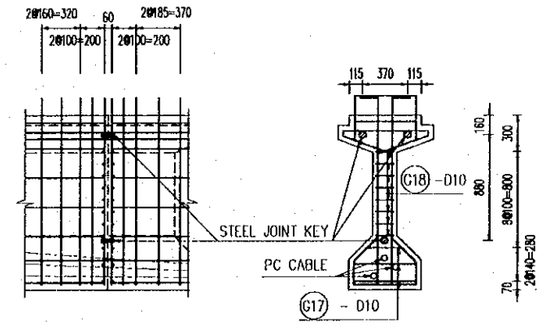




BAR LIST (FOR 1 GIRDER)

REINF No	DIA (mm)	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT (kg)	REMARKS
G1	14	3611	119	1.208	519.1	
G2	14	3811	48	1.208	221.0	AVERAGE
G3	14	4011	8	1.208	38.8	
G4	14	4011	4	1.208	19.4	
G5	14	1645	131	1.208	260.3	
G6	14	1195	131	1.208	189.1	
G7	14	1861	75	1.208	168.6	
G8	14	1577	48	1.208	91.4	AVERAGE
G9	14	1295	8	1.208	12.5	
G10	22	24840	6	2.984	444.7	
G11	14	24840	18	1.208	540.1	
G12	14	24860	8	1.208	240.2	
G13	14	905	16	1.208	17.5	
G14	14	1000	12	1.208	14.5	
G15	16	1600	52	1.578	131.3	INTERIOR GIRDER
G16	16	1100	52	1.578	90.3	EXTERIOR GIRDER
G17	10	520	12	0.617	3.9	
G18	10	150	32	0.617	3.0	
G19	14	1913	119	1.208	275	
	TOTAL		3190.2		(3149.17)	
			D10	6.8	(6.8)	
			D14	2607.4	(2607.4)	
			D16	131.3	(90.3)	
			D22	444.7	(444.7)	
STEEL JOINT KEY : 6 SET						

DETAIL "A"
(SCALE 1 : 50)

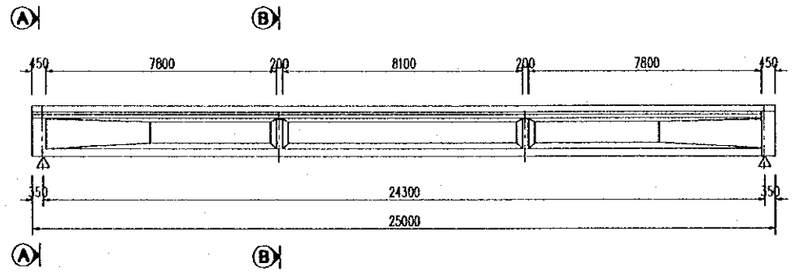


NOTES :

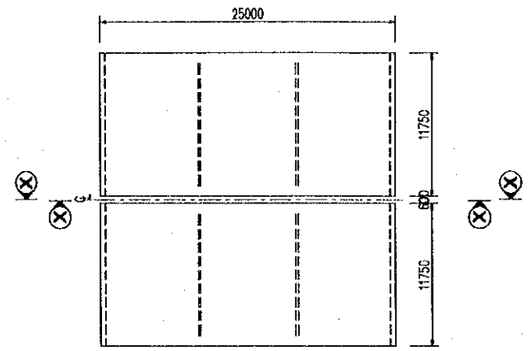
1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR4/0030.
2. THE VALUE OF INSIDE ( ) ARE FOR EXTERIOR GIRDER.

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	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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE SUPERSTRUCTURE REINFORCEMENT OF "T" GIRDER L = 25M	P3/BR4/0110
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

PROFILE X-X



KEY PLAN

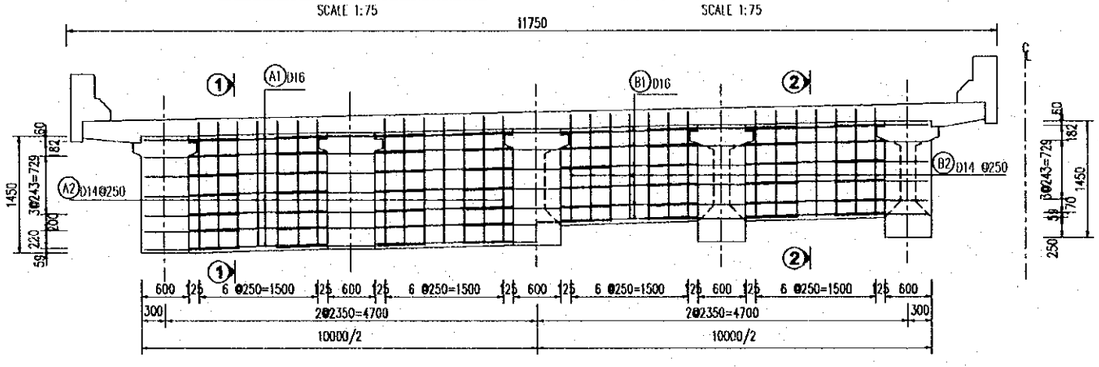


HALF SECTION A-A

SCALE 1:75

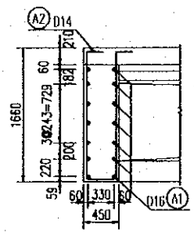
HALF SECTION B-B

SCALE 1:75



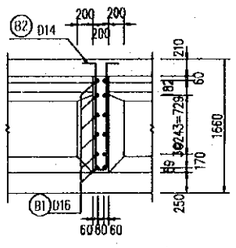
SECTION 1-1

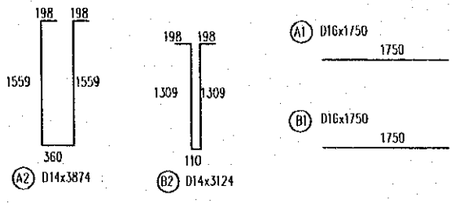
SCALE 1:75



SECTION 2-2

SCALE 1:75





LIST OF REINFORCEMENT

REIN. No	DIAMETER (mm)	LENGTH (mm)	NUMBER	UNIT WEIGHT (kg/m)	WEIGHT (kg)
A1	16	1750	224	1.578	618.6
A2	14	3874	112	1.208	524.1
B1	16	1750	192	1.578	530.2
B2	14	3124	112	1.208	422.7
CONCRETE 23.25 M3		TOTAL			2095.6 KG
		D16			1148.8 KG
		D14			946.8 KG

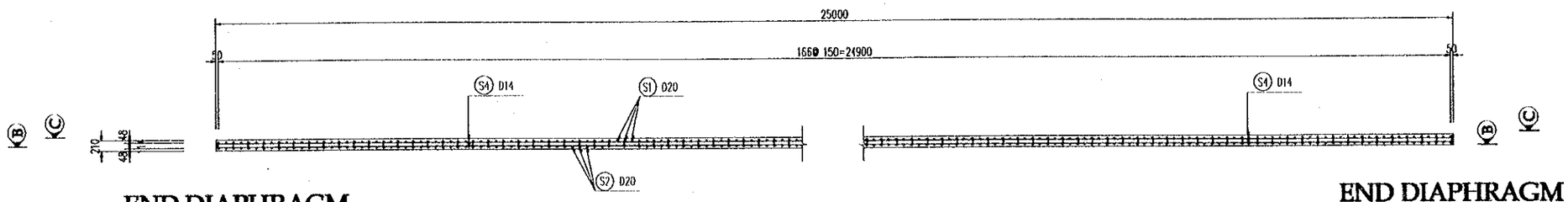
NOTES:

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	K.Matsumoto	K. Enomoto	BAMANG BRIDGE SUPERSTRUCTURE REINFORCEMENT OF DIAPHRAGMS	P3/BR4/0120
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

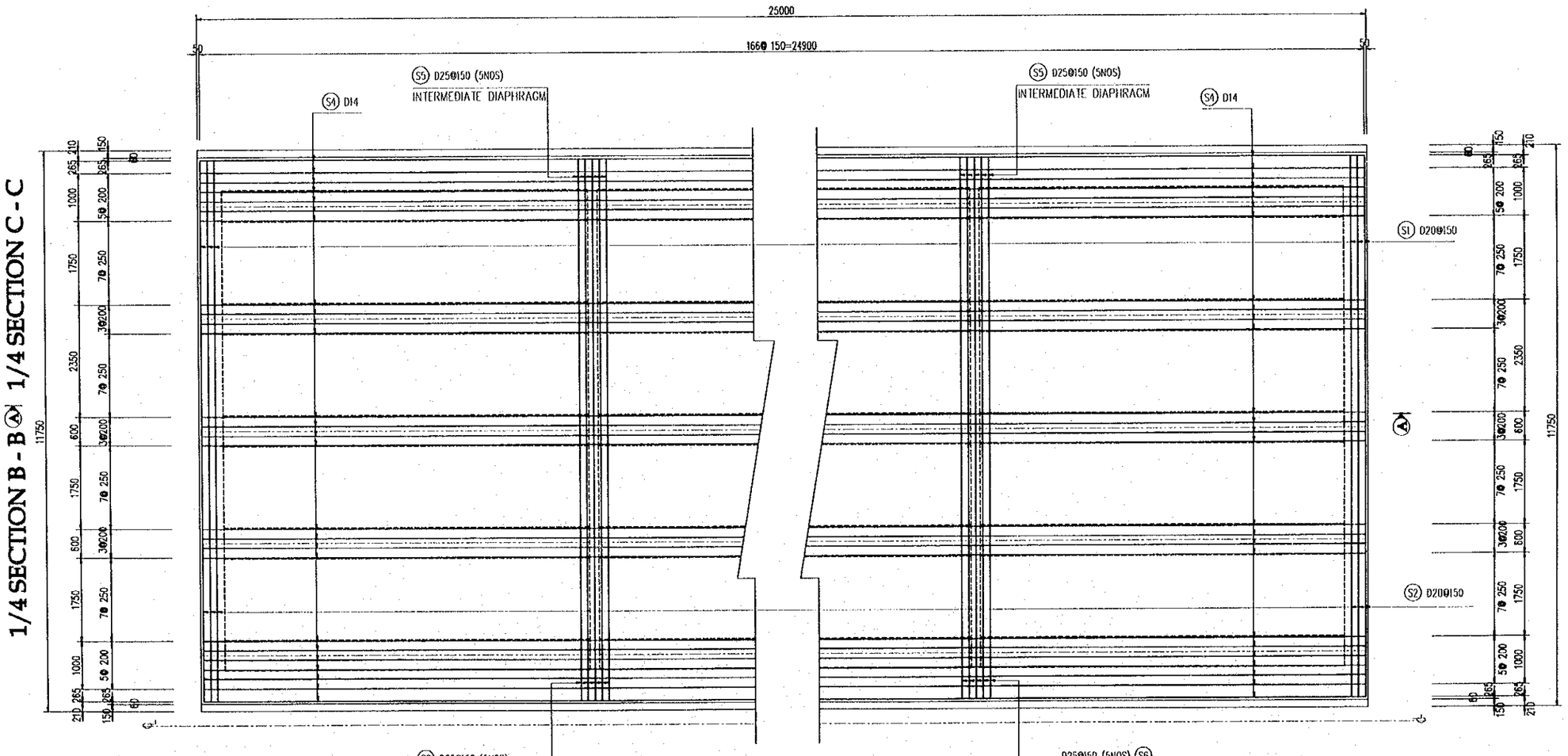
SECTION A - A

SCALE : 1:100



END DIAPHRAGM
(A1)

END DIAPHRAGM
(A2)



END DIAPHRAGM
(A1)

PLAN

SCALE 1:100

END DIAPHRAGM
(A2)

NOTES

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

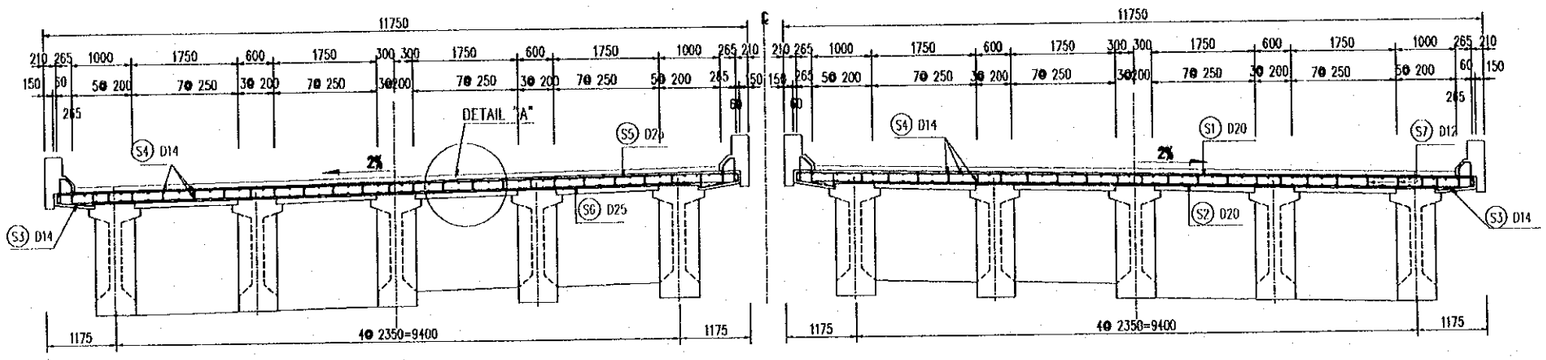
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM		PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	NAME	T. Kamctani	K.Matsumoto	K. Enomoto	BA MANG BRIDGE SUPERSTRUCTURE DECK SLAB REINFORCEMENT - SHEET 1	P3/BR4/0130
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

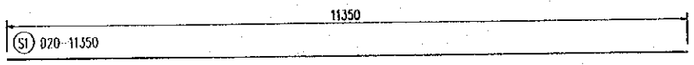
1/4 SECTION AT END DIAPHRAGM

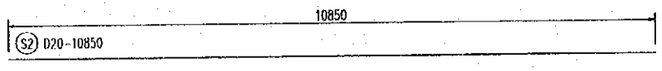
1/4 SECTION AT INTERMEDIATE DIAPHRAGM

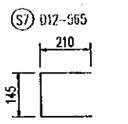
1/4 SECTION AT INTERMEDIATE DIAPHRAGM

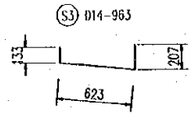
1/4 SECTION AT END DIAPHRAGM

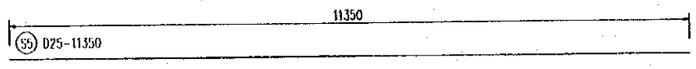


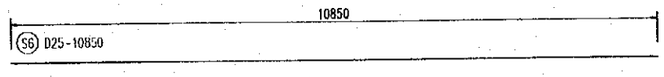


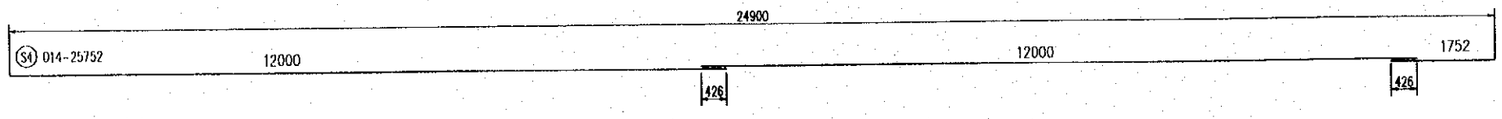










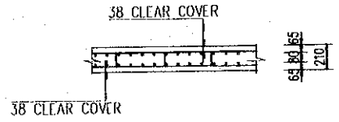


LIST OF REINFORCEMENT

TYPE	DIAMETER (mm)	LENGTH (mm)	NUMBER	UNITWEIGHT (kg/m)	WEIGHT (kg)
S1	20	11350	334	2.466	9348.4
S2	20	10850	334	2.466	8936.5
S3	14	963	668	1.208	777.1
S4	14	25752	200	1.208	6221.7
S5	25	11350	20	3.853	874.6
S6	25	10850	20	3.853	836.1
S7	12	565	4175	0.888	2094.7
TOTAL		29089.1	(KG)		
D25		1710.7	(KG)		
D20		18284.9	(KG)	CONCRETE :	123.4(M3)
D14		6998.8	(KG)		
D12		2094.7	(KG)		

DETAIL "A"

SCALE 1:50



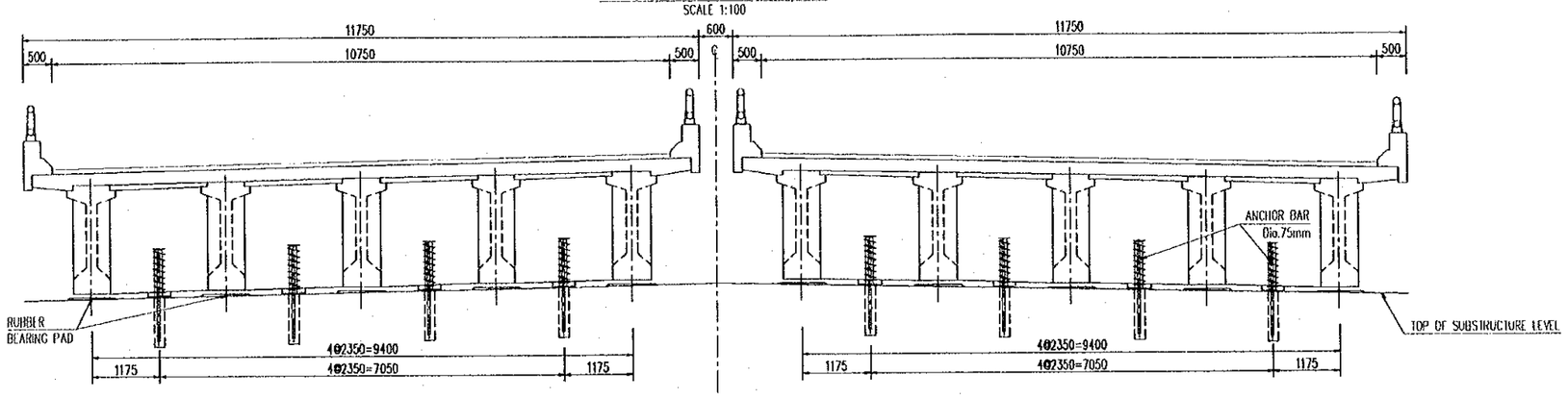
NOTES

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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE SUPERSTRUCTURE DECK SLAB REINFORCEMENT - SHEET 2	P3/BR4/0140
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

CROSS SECTION

SCALE 1:100



BEARING PERFRMANCE RBQUIREMENTS

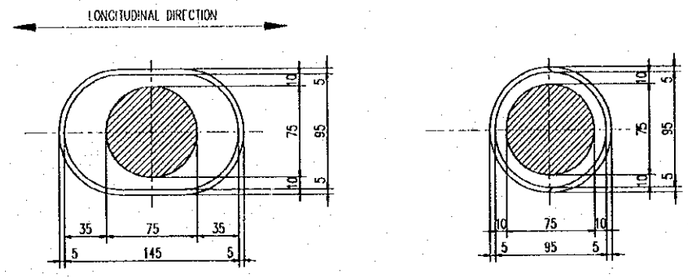
LOCATION	VERTICAL LOAD (kN)	
	MAXIMUM	MINIMUM
MOVABLE BEARINGS	1 180	535

QUANTITY TABLE (FOR ENTIRE BRIDGE)

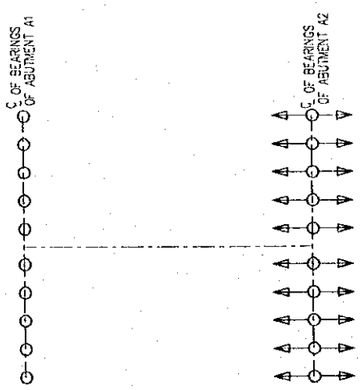
ITEMS		UNIT	SERVICEABILITY
BEARINGS	500x250x50(mm)	SET	20
ANCHOR BAR Dia.75mm		SET	16

ANCHOR CAP

SCALE 1:5

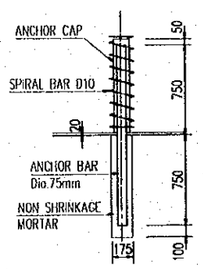


BEARING LAYOUT



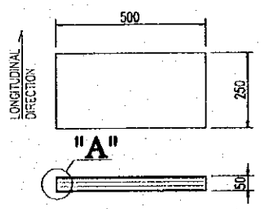
ANCHOR BAR

SCALE 1:50



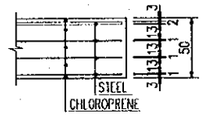
ELASTOMERIC BEARING

SCALE 1:20



DETAIL "A"

SCALE 1:5



KEY :

DENOTES GUIDE SLIDING BEARING (IN THE DIRECTION GIVEN BY THE ARROWS)

DENOTES GUIDE SLIDING FIXED BEARING

NOTES

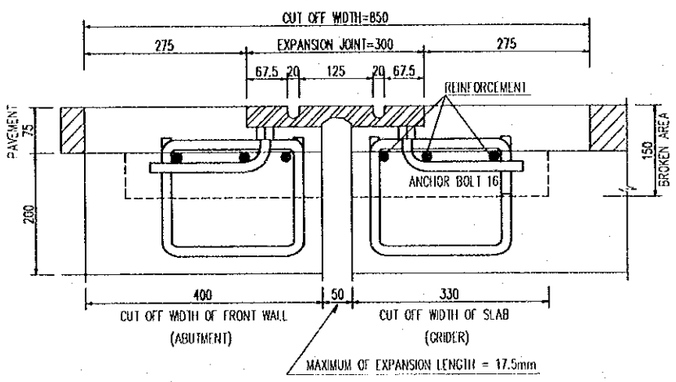
1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO P3/BR4/0030.

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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE SUPERSTRUCTURE DETAILS OF BEARINGS	P3/BR4/0150
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

DETAILS OF EXPANSION JOINTS AT ABUTMENT A1&A2

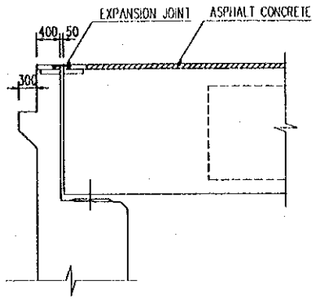
FOR ATBUTMENT

SCALE 1:10



DETAIL AT ABUTMENT

SCALE 1:100

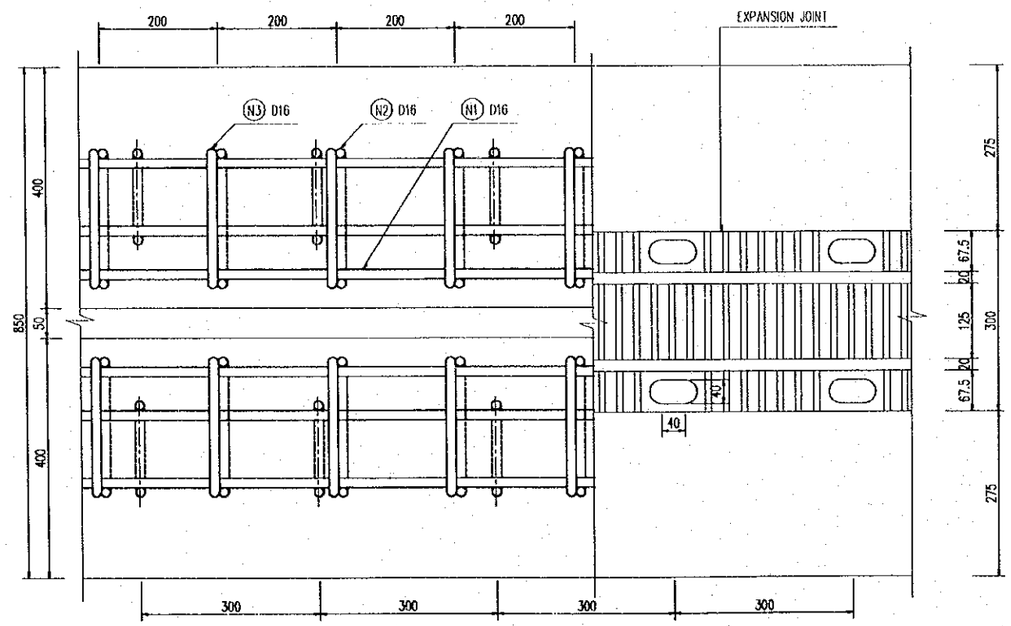


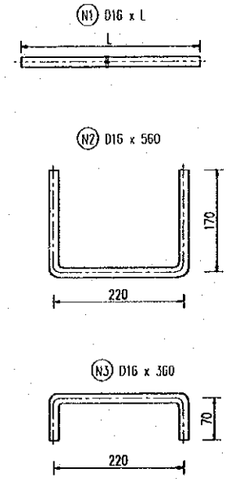
QUANTITY TABLE (Per m)

	KIND OR SIZE	QUANTITY	REMARKS
EXPANSION JOINT	NEOPRENE RUBBER	1 M	JIS-K-6301
ANCHOR BOLT	D16 L =272 mm	1/30 CM	@500
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	@200
	(N3) 5 - D16	2.84 kg	@200
CUT OFF	PAVEMENT	0.057 m3	
	SLAB	0.050 m3	
CONCRETE	B - 1	0.095 m3	CAST IN PLACE

PLAN OF EXPANSION JOINT

SCALE 1:10





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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE SUPERSTRUCTURE DETAILS OF EXPANSION JOINTS	P3/BR4/0160
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

QUANTITY TABLE OF SUPERSTRUCTURE

ITEM		WORK ITEM	UNIT	QUANTITY
CONCRETE	CLASS B	GIRDER	M3	158.79
	CLASS D	PANEL	M3	28.00
		DECK SLAB	M3	123.40
		CROSS BEAM	M3	23.25
		TOTAL	M3	174.65
	TOTAL		M3	333.43
REINFORCEMENT		GIDER	TON	31.74
		CROSS BEAM	TON	2.10
		DECK SLAB	TON	29.09
		PANEL	TON	3.36
		TOTAL	TON	66.28
PC CABLE	12S12.7(B)	LONGITUDINAL TENDONS	TON	6.90
ANCHOR	12S12.7(B)		SET	60
STEEL SHEAR KEY			SET	60
SHEATHING	ϕ80/85		M	742.58
CEMENT GROUT IN SHEATHING	ϕ80/85		M3	3.73
EXPANSION JOINT	50MM		M	43
BEARING 500X250X50			SET	20
ANCHORAGE BAR	ϕ75, L=1500		SET	16
PAVEMENT	WATER PROOFING T = 5MM		M2	539.65
	ASPHALT CONCRETE T = 70MM		M2	539.65

NOTES

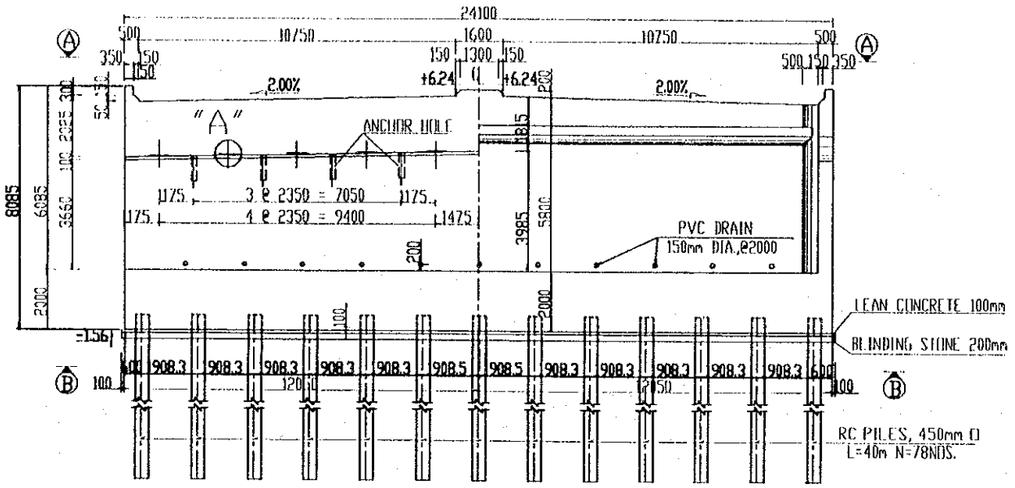
FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR4/0030.

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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE SUPERSTRUCTURE QUANTITY TABLE OF SUPERSTRUCTURE	P3/BR4/0170
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

III. ABUTMENTS

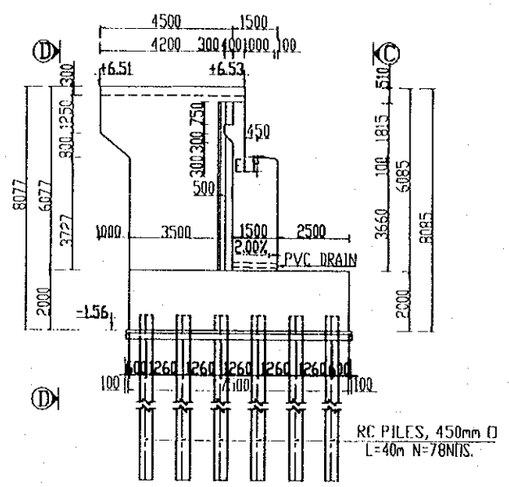
DETAIL OF ABUTMENT

1/2 C-C



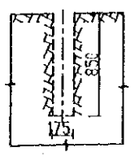
1/2 D-D

SIDE ELEVATION



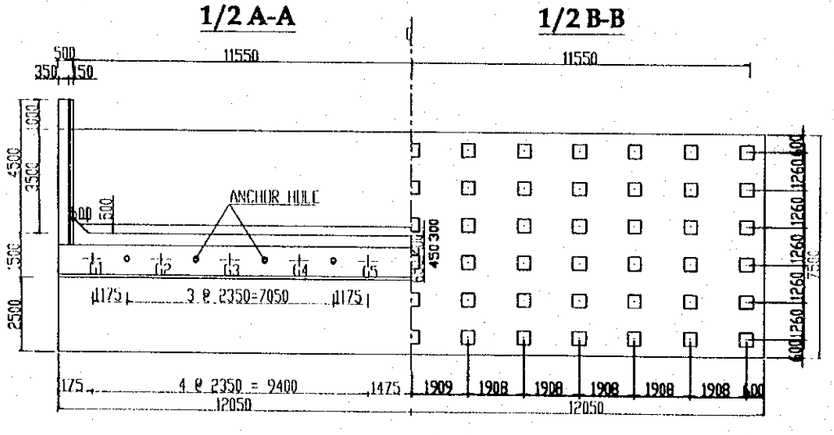
DETAIL OF ANCHOR HOLE

(SCALE 1:50)



1/2 A-A

1/2 B-B

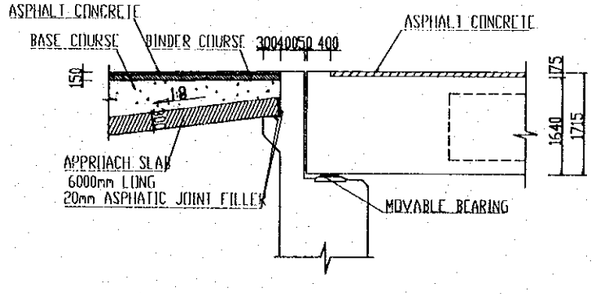


GIRDER BEARING SEAT ELEVATION OF EL1

GROUT PAD / ABUTMENT	G1	G2	G3	G4	G5
A1-A2	+4.25	+4.29	+4.34	+4.39	+4.43

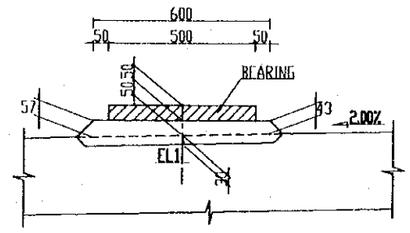
DETAIL OF BACK WALL

(SCALE 1:100)

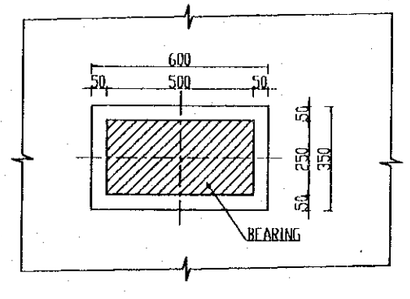


DETAIL "A"

(SCALE 1:20)



PLAN



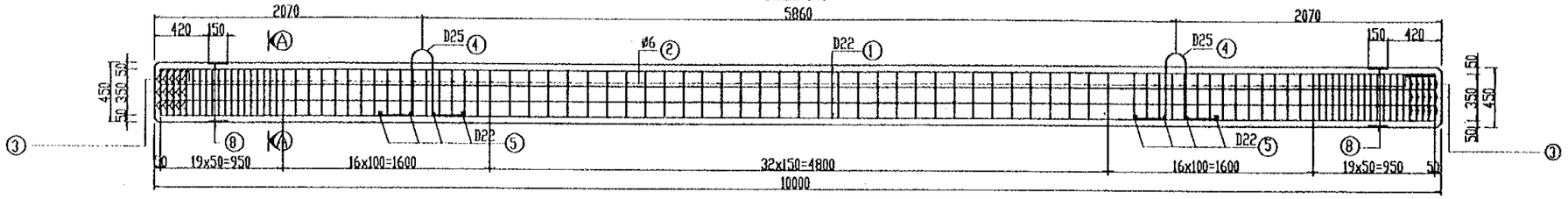
NOTE

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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE ABUTMENTS GENERAL VIEW OF ABUTMENTS A1&A2	P3/BR4/0180
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

R.C.PILE-1 L=10M

SCALE 1:40



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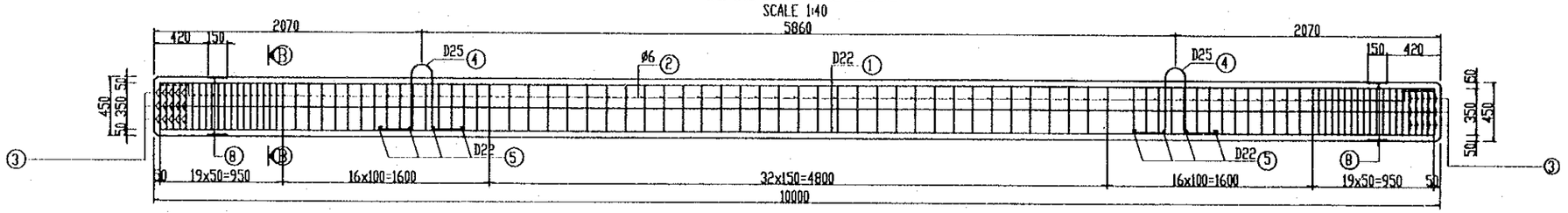
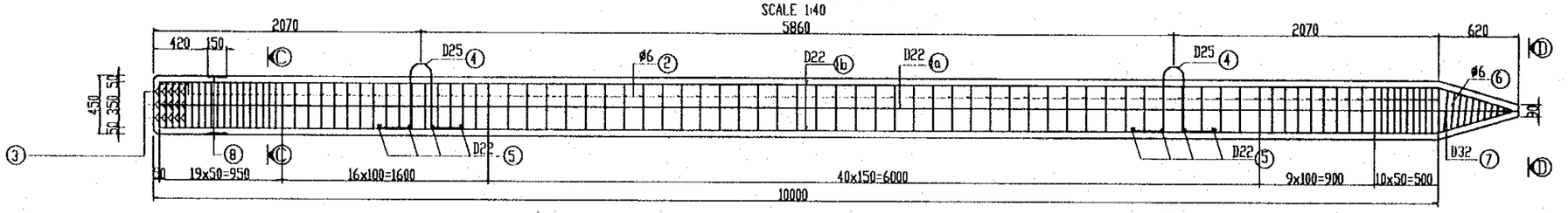


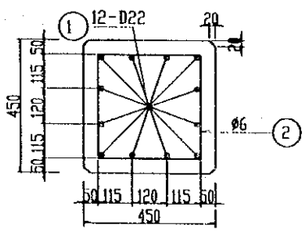
R.C.PILE-3 L=10M

SCALE 1:40



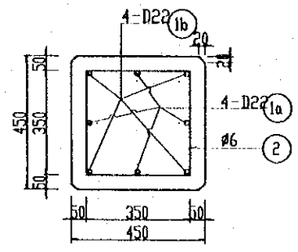
A-A

SCALE 1:20



C-C

SCALE 1:20



CONPLING BOX

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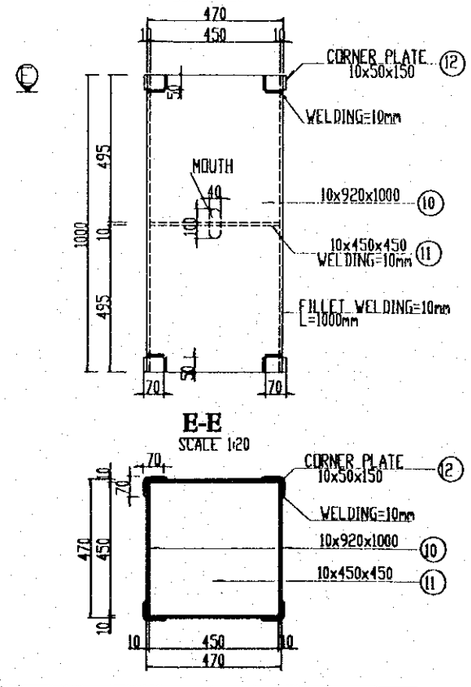
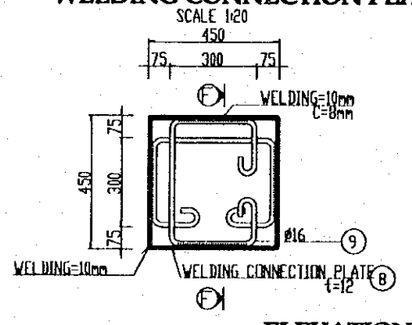


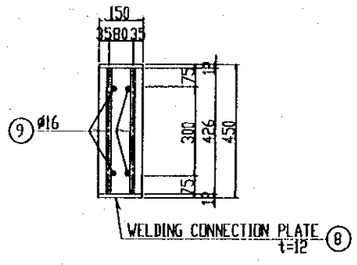
WELDING CONNECTION PLATE

SCALE 1:20



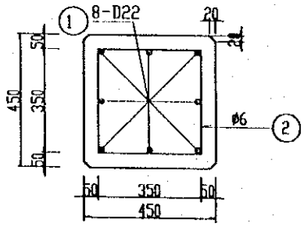
F-F

SCALE 1:20



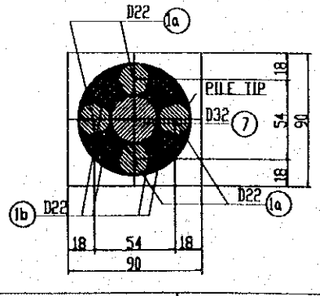
B-B

SCALE 1:20



D-D

SCALE 1: 4

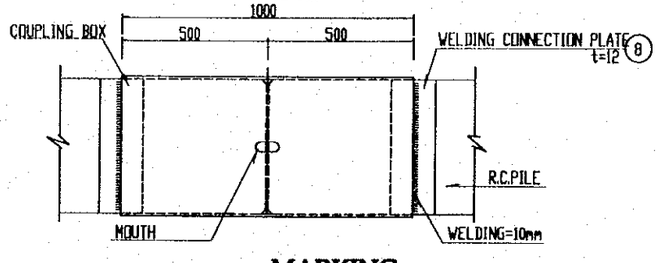


E-E

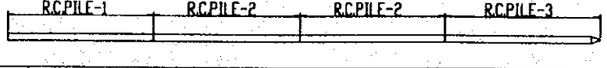
SCALE 1:20

ELEVATION

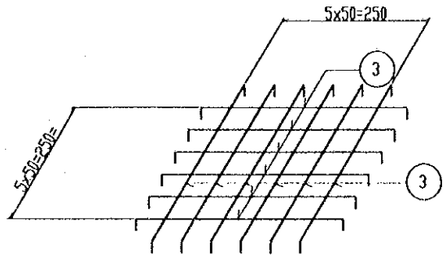
SCALE 1:20



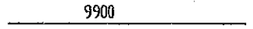
MARKING



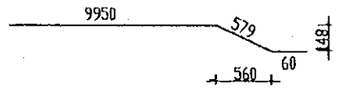
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM		PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOEI CO.,LTD.	NAME	T. Kametani	K.Matsumoto	K. Enomoto	BA MANG BRIDGE ABUTMENTS ABUTMENTS A1&A2-RC PILE(450-L=40.0m-SHEET 1	P3/BRA/0190
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		



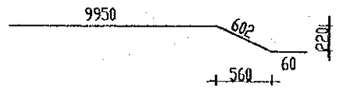
(1) D22 , L=9900



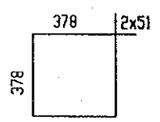
(1a) D22 , L=10589



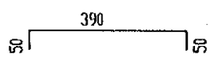
(1b) D22 , L=10612



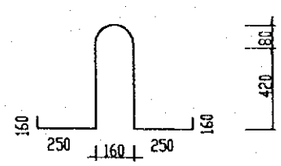
(2) ø 6 , L=1614



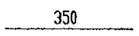
(3) ø 6 , L=490



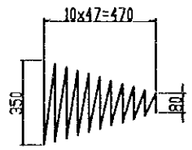
(4) D25 , L=1911



(5) D22 , L=350

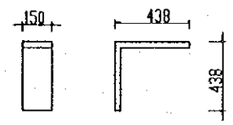


(6) ø 6 , L=9460

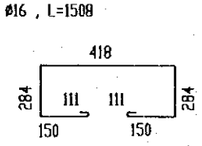


(7) D32 , L=810

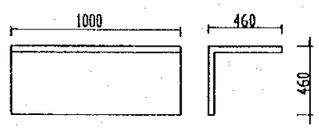
(8) 12x150x876



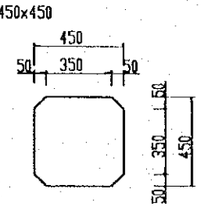
(9) ø16 , L=1508



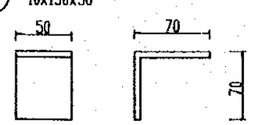
(10) 10x920x1000



(11) 10x450x450



(12) 10x150x50



LIST OF REINFORCEMENT

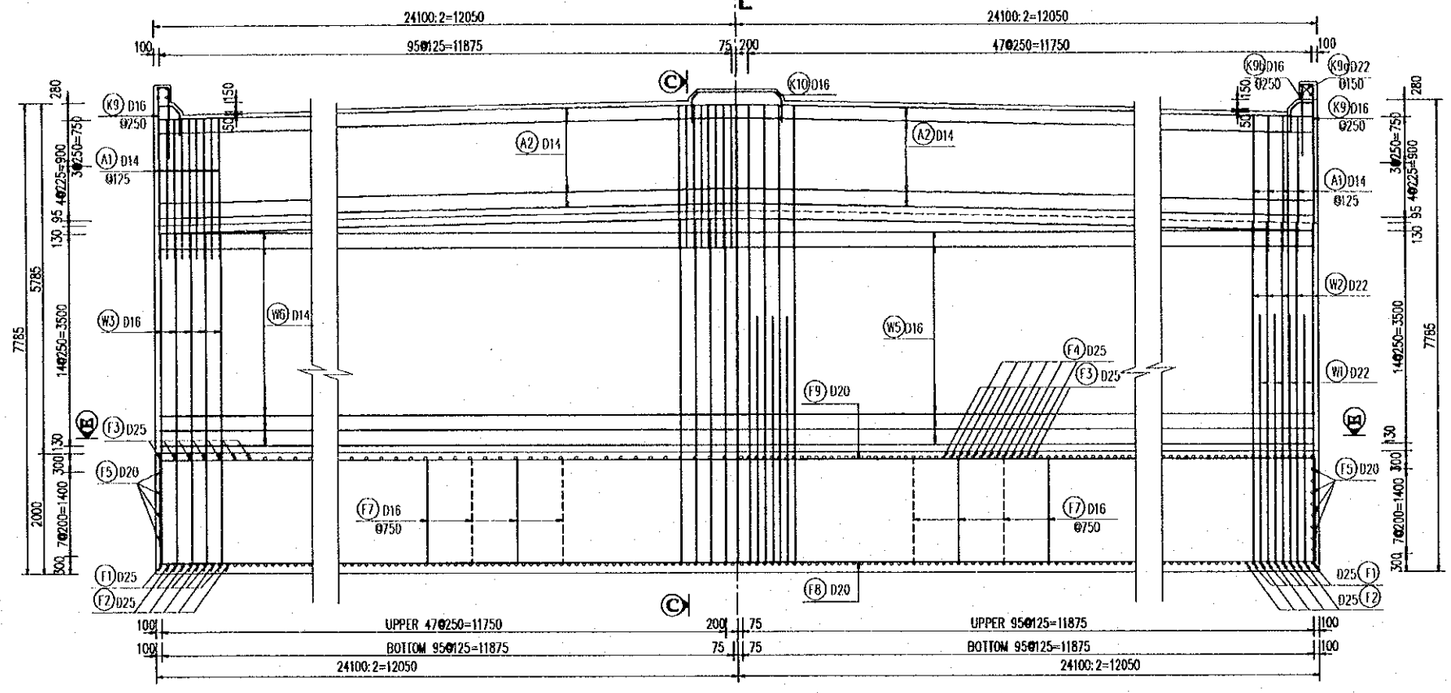
	SIGN	DIACETER mm	UNIT WEIGHT kg/m	LENGTH mm	NOS.	TOTAL LENGTH m	TOTAL WEIGHT kg
R.C.PILE-1 10M	1	22	2.984	9900	12	118.8	354.0
	2	6	0.222	1614	95	153.33	34.0
	3	6	0.222	490	120	44.6	13.1
	4	25	3.853	1911	2	3.82	14.7
	5	22	26.25	350	8	2.80	8.3
	8	12x150x876	12.378		2		24.8
	9	16	1.579	1508	8	12.06	19.0
	1. TOTAL			467.9 kg			
	ø6			47.1 kg			
	D16			19.0 kg			
	D22			362.3 kg			
	D25			14.7 kg			
	12x150x876			24.8 kg			
	2. CONCRETE M300			2.0 m3			
R.C.PILE-2 10M	1	22	2.984	9900	8	79.2	236.0
	2	6	0.222	1614	95	153.33	34.0
	3	6	0.222	490	120	44.6	13.1
	4	25	3.853	1911	2	3.82	14.7
	5	22	26.25	350	8	2.80	8.3
	8	12x150x876	12.378		2		24.8
	9	16	1.579	1508	8	12.06	19.0
	1. TOTAL			349.9 kg			
	ø6			47.1 kg			
	D16			19.0 kg			
	D22			244.3 kg			
	D25			14.7 kg			
	12x150x876			24.8 kg			
	2. CONCRETE M300			2.0 m3			
R.C.PILE-3 10M	1a	22	2.984	10589	4	42.36	126.4
	1b	22	2.984	10612	4	42.45	126.8
	2	6	0.222	1614	95	153.33	34.0
	3	6	0.222	490	60	29.40	6.5
	4	25	3.853	1911	2	3.82	14.7
	5	22	2.984	350	8	2.80	8.3
	6	6	0.222	9460	1	9.46	2.1
	7	32	6.313	810	1	0.81	5.1
	8	12x150x876	12.378		2		24.8
	9	16	1.579	1508	4	6.03	9.5
	1. TOTAL			358.2 kg			
	ø6			42.6 kg			
	D16			9.5 kg			
	D22			261.5 kg			
	D25			14.7 kg			
	D32			5.1 kg			
	12x150x876			24.8 kg			
	2. CONCRETE M300			2.0 m3			
COUPLING BOX	10	10x920x1000	72.220		2		144.4
	11	10x450x450	15.896		1		15.9
	12	10x50x150	0.589		8		4.7
	TOTAL						165.0

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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE ABUTMENTS ABUTMENTS A1&A2-RC PILE Φ450-L=40.0m-SHEET 2	P3/BRA/0300
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

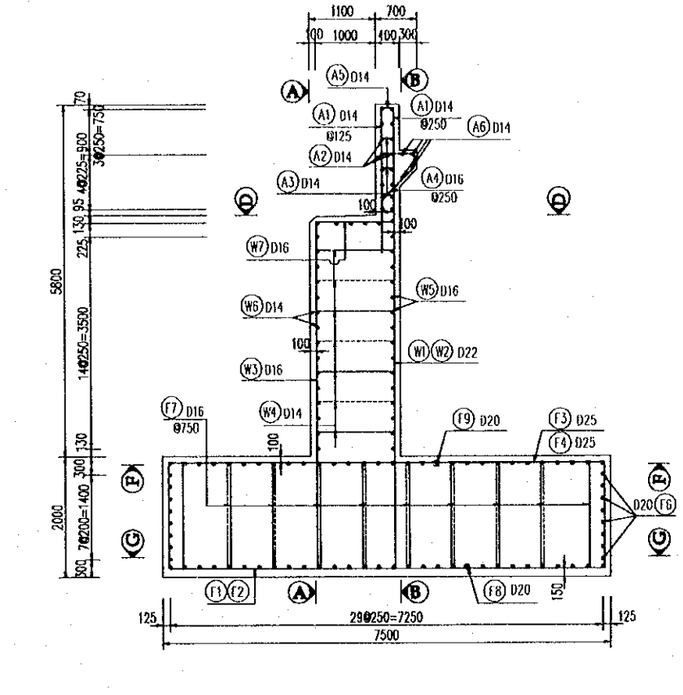
REINFORCEMENT ARRANGEMENT OF ABUTMENT A2

(SCALE 1:100)

1/2 A - A

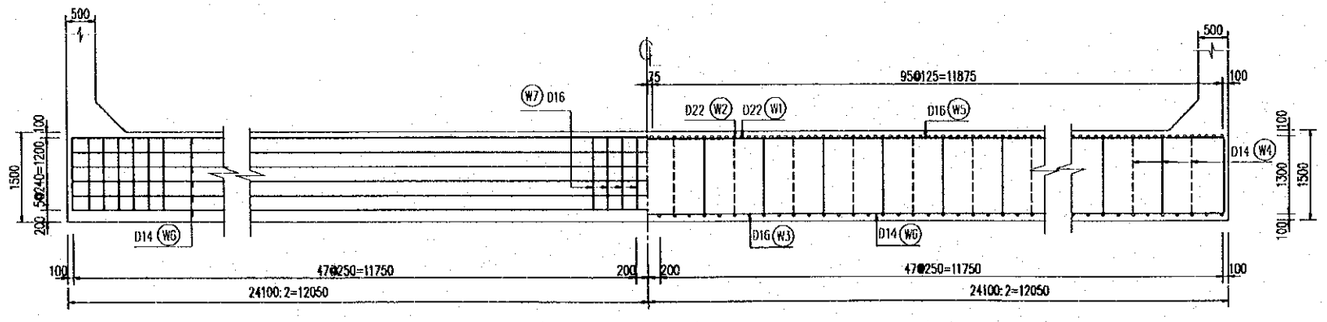


1/2 B - B



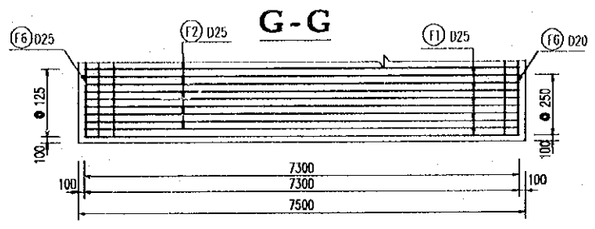
C - C

1/2 D - D

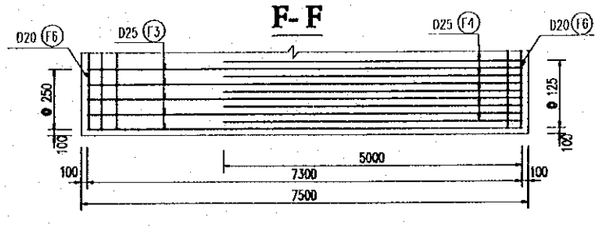


1/2 E - E

G - G



F - F

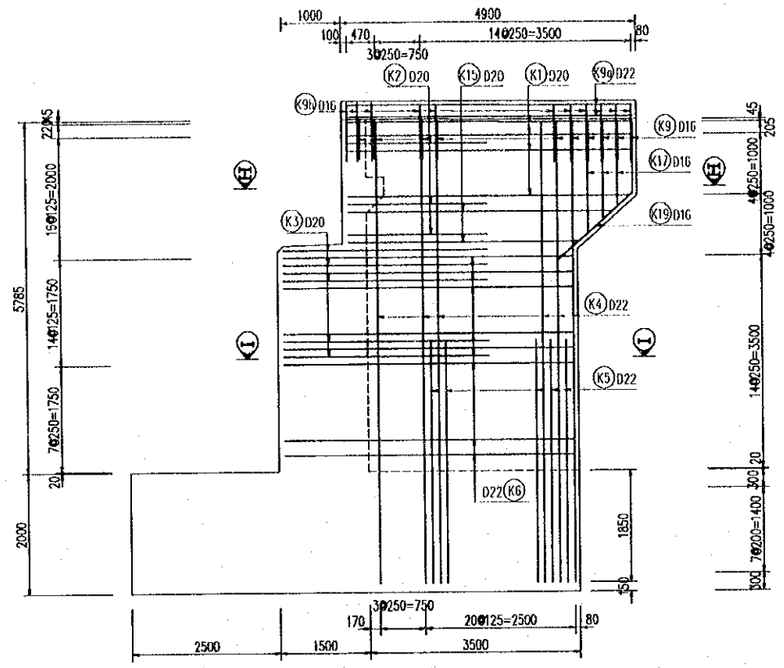


NOTES

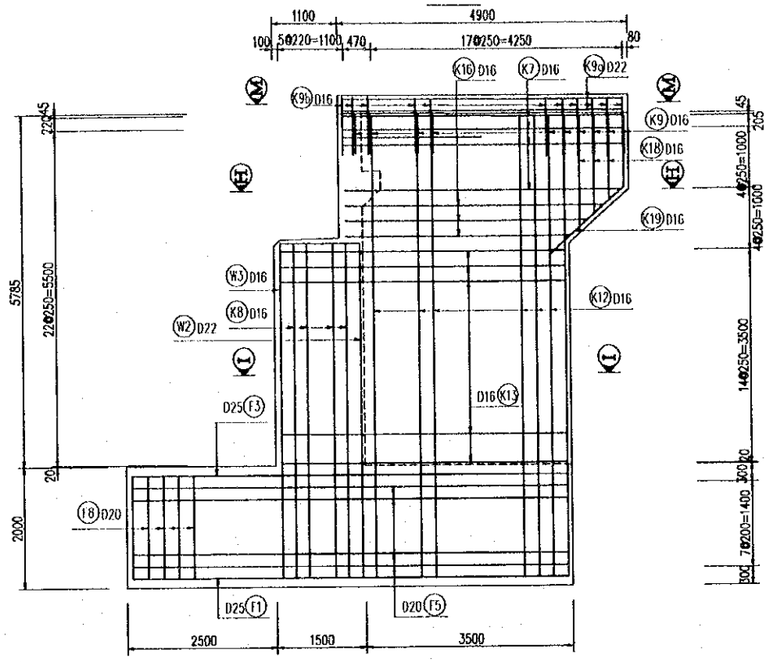
1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR4/0030

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	K.Matsumoto	K. Enomoto	BAMANG BRIDGE ABUTMENTS REINFORCEMENT OF ABUTMENTS A1&A2- SHEET 1	P3/BR4/0210
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

J-J

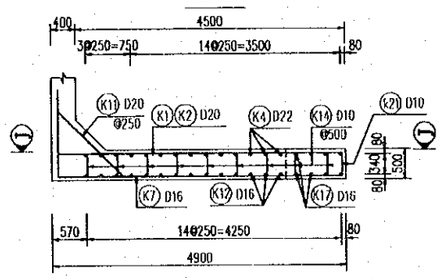


K-K

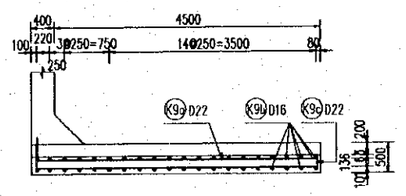


I-I

H-H

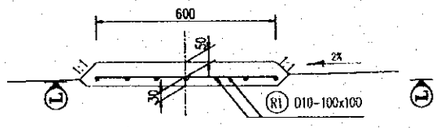


M-M



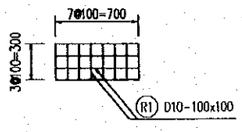
REINFORCING SHOES

(SCALE 1:20)



L-L

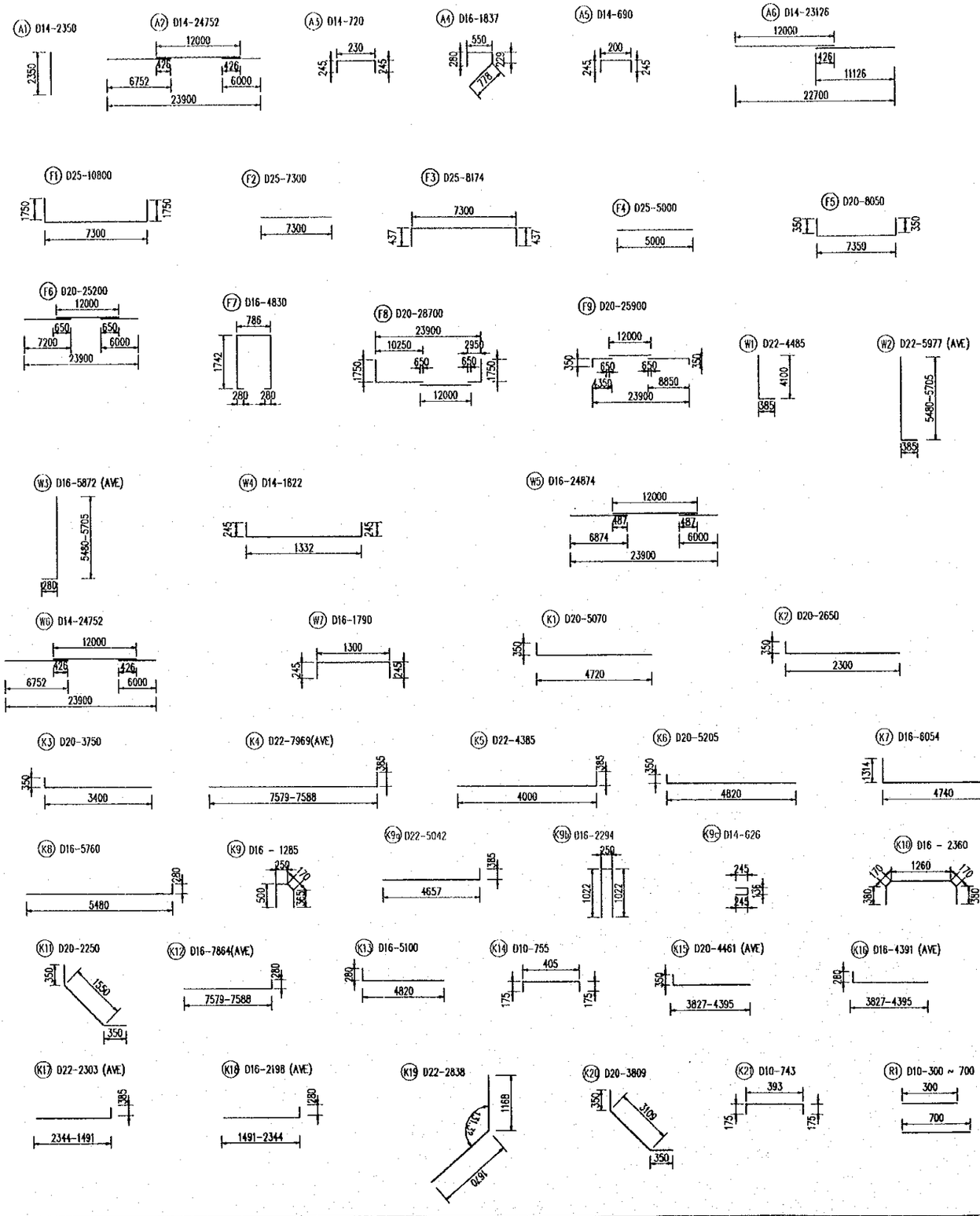
(SCALE 1:50)



NOTES

1. 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	K.Matsumoto	K. Enomoto	BAMANG BRIDGE ABUTMENTS REINFORCEMENT OF ABUTMENTS A1&A2- SHEET 2	P3/BR4/0220
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		



LIST OF REINFORCEMENT (FOR ONE ABUTMENT)

REINF No.	DIA. mm	LENGTH mm	NUMBER	UNIT WEIGHT kg/m	WEIGHT kg	REMARKS
A1	14	2350	289	1.208	820.69	
A2	14	24752	16	1.208	478.57	
A3	14	720	141	1.208	122.68	
A4	16	1837	97	1.578	281.24	
A5	14	690	97	1.208	80.88	
A6	14	23126	4	1.208	111.78	
F1	25	10800	97	3.853	4036.78	
F2	25	7300	95	3.853	2672.30	
F3	25	8174	97	3.853	3055.24	
F4	25	5000	95	3.853	1830.35	
F5	20	8050	16	2.466	317.64	
F6	20	25200	16	2.466	994.35	
F7	16	4830	144	1.578	1097.76	
F8	20	28700	30	2.466	2123.36	
F9	20	25900	30	2.466	1916.20	
W1	22	4485	94	2.984	1258.04	
W2	22	5977	97	2.984	1730.05	AVERAGE
W3	16	5872	97	1.578	899.00	AVERAGE
W4	14	1822	165	1.208	363.29	
W5	16	24874	16	1.578	628.15	
W6	14	24752	20	1.208	598.21	
W7	16	1790	97	1.578	274.05	
K1	20	5070	12	2.466	150.04	
K2	20	2650	16	2.466	104.56	
K3	20	3750	16	2.466	147.97	
K4	22	7969	28	2.984	665.84	AVERAGE
K5	22	4385	20	2.984	261.70	
K6	20	5205	30	2.466	385.09	
K7	16	6054	12	1.578	114.66	
K8	16	5760	10	1.578	90.91	
K9	16	1285	40	1.578	81.13	
K9a	22	5042	8	2.984	120.36	
K9b	16	2294	40	1.578	144.83	
K9c	14	626	4	1.208	3.03	
K10	16	2360	2	1.578	7.45	
K11	20	2250	18	2.466	99.88	
K12	16	7864	28	1.578	347.54	AVERAGE
K13	16	5100	30	1.578	241.49	
K14	10	755	188	0.617	87.51	
K15	20	4461	48	2.466	528.07	AVERAGE
K16	16	4391	32	1.578	221.78	AVERAGE
K17	22	2303	6	2.984	41.23	AVERAGE
K18	16	2198	6	1.578	20.82	AVERAGE
K19	22	2838	4	2.984	33.87	
K20	20	3809	32	2.466	300.59	
K21	10	743	48	0.617	21.99	
R1	10	300~700	80~40	0.617	32.10	AVERAGE
TOTAL		29945	kg			
	D10:	142	kg	D20:	7068	kg
	D14:	2579	kg	D22:	4111	kg
	D16:	4451	kg	D25:	11595	kg

NOTES

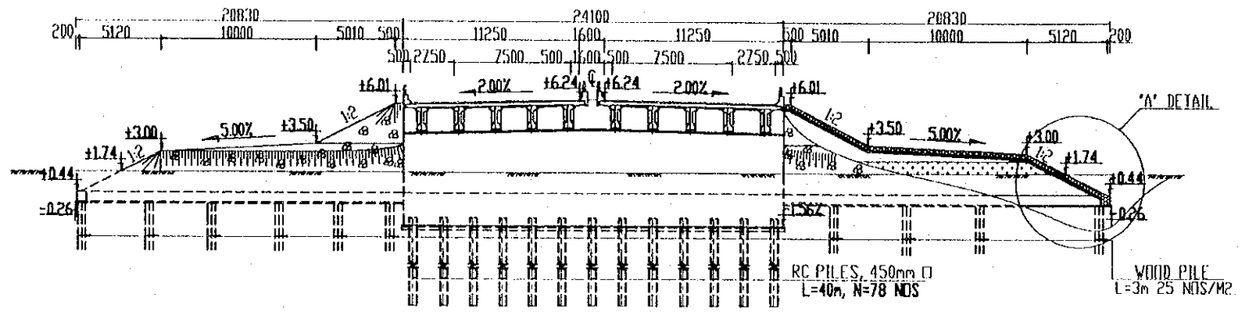
1. FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. P3/BR4/0030

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	K.Matsumoto	K. Enomoto	BAMANG BRIDGE ABUTMENTS REINFORCEMENT OF ABUTMENTS A1&A2- SHEET 3	P3/BR4/0230
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

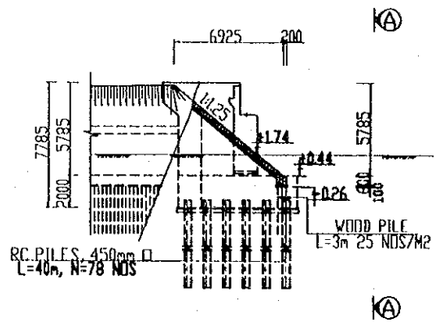
EARTHWORKS SLOPE PROTECTION

(SCALE 1:375)

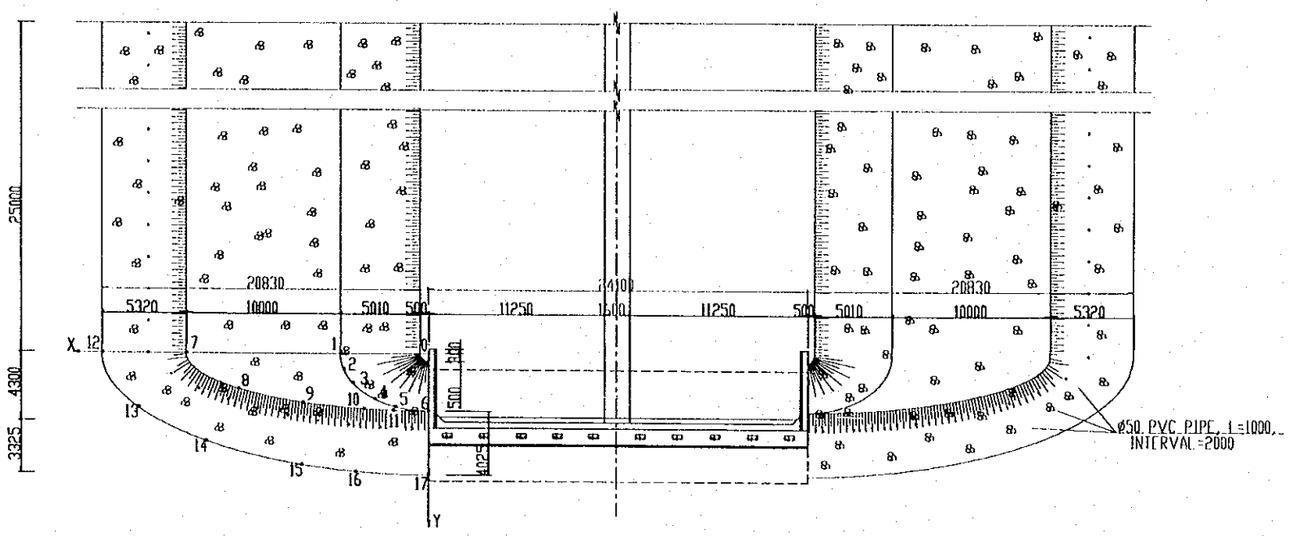
A-A (ABUTMENT A1, A2)



SIDE ELEVATION



PLAN



"A" DETAIL

(SCALE 1:150)

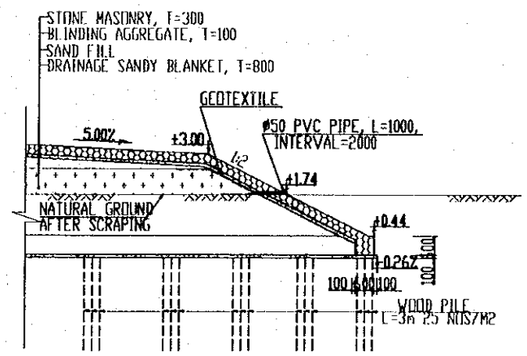


TABLE OF COORDINATES

No	X (cm)	Y (cm)
0	0	0
1	551	0
2	530	98
3	474	184
4	332	287
5	205	334
6	0	360
7	1551	0
8	1214	224

No	X (cm)	Y (cm)
9	797	309
10	402	348
11	219	356
12	2083	0
13	1853	342
14	1424	551
15	807	699
16	455	742
17	0	763

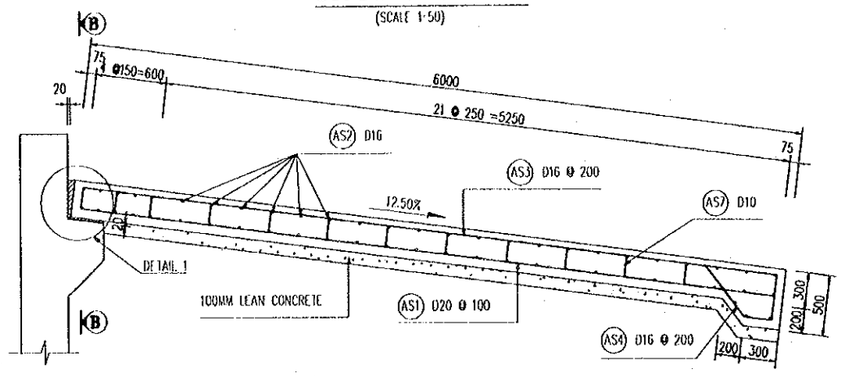
NOTES

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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE ABUTMENTS EARTHWORKS SLOPE PROTECTION	P3/BR4/0240
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

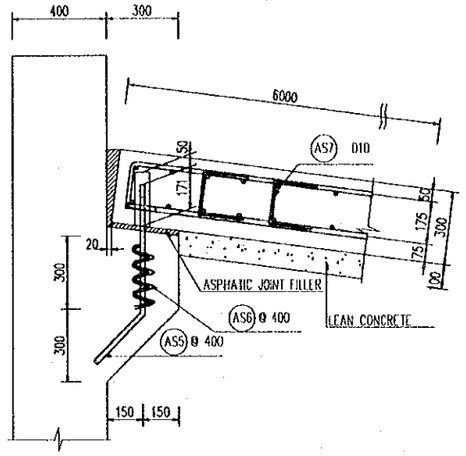
SECTION A - A

(SCALE 1:50)



DETAIL 1

SCALE 1:25



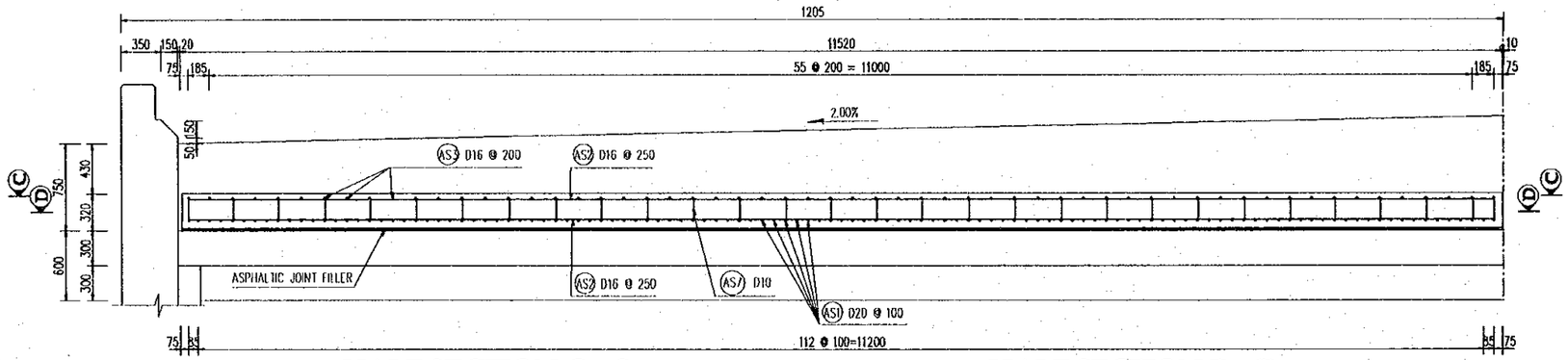
LIST OF REINFORCEMENT

TYPE	Ø (mm)	LENGTH OF BAR (mm)	U WEIGHT (kg/m)	NUMBER	WEIGHT (Kg)
AS1	D20	5850	2.466	230	3318.0
AS2	D16	11670	1.578	110	2025.7
AS3	D16	6320	1.578	116	1156.9
AS4	D16	1200	1.578	116	219.7
AS5	D20	700	2.466	60	103.6
AS6	D10	1580	0.617	60	58.5
AS7	D10	519	0.617	616	197.3

D10	255.8 kg
D16	3402.3 kg
D20	3421.6 kg
TOTAL :	7079.7 kg
CONCRETE :	43.4 m3
LEAN CONCRETE :	13.4 m3
ASPHATIC JOINT FILLER :	0.6 m3

HALF SECTION B - B

(SCALE 1:50)

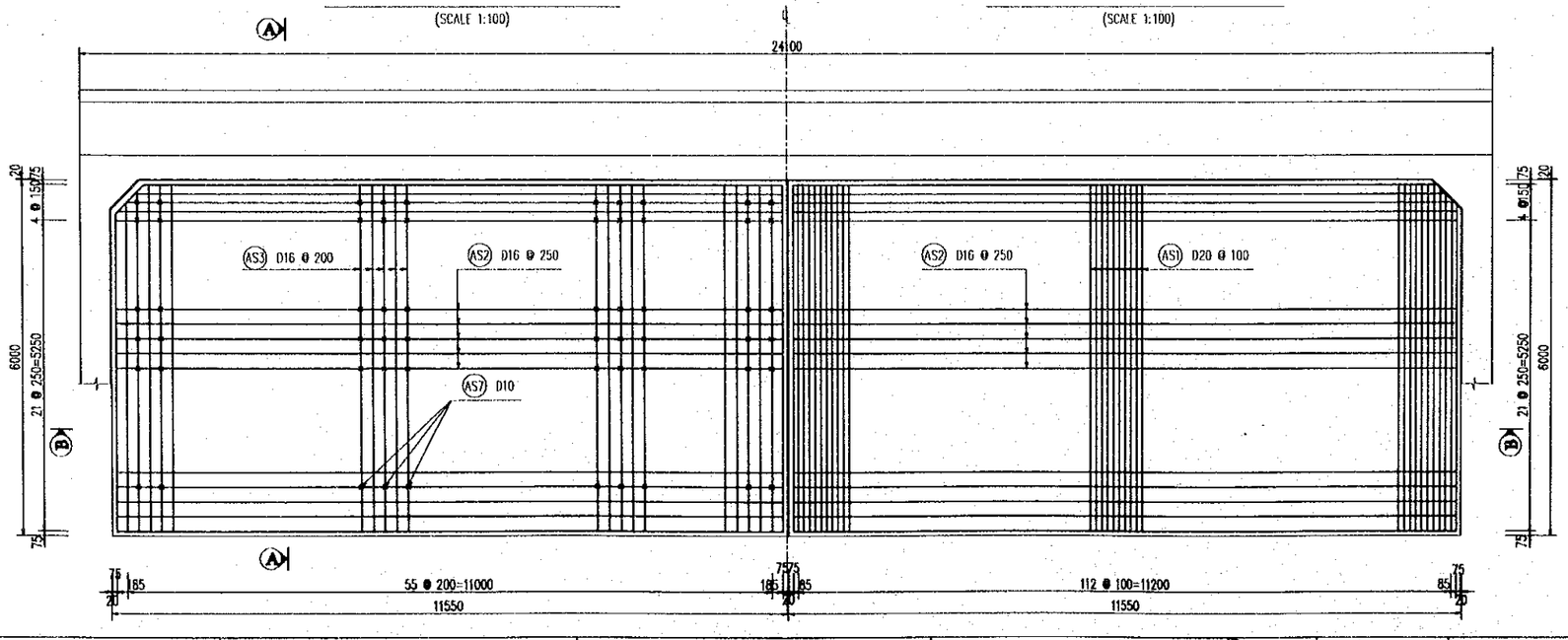


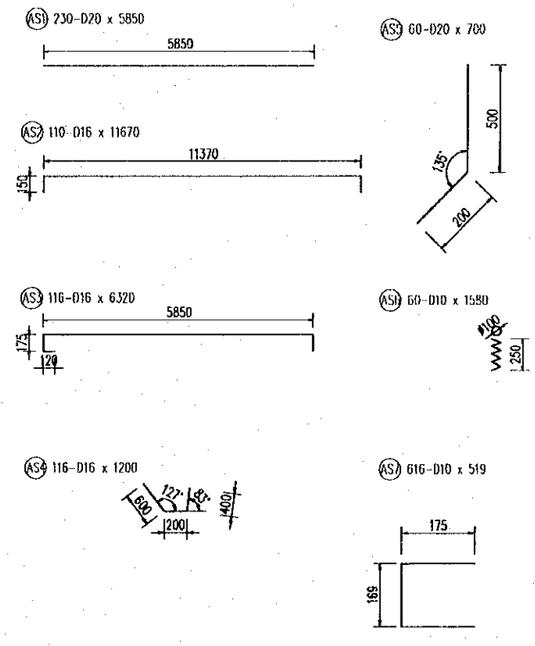
HALF SECTION C - C

(SCALE 1:100)

HALF SECTION D - D

(SCALE 1:100)





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	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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE ABUTMENTS DETAILS OF APPROACH SLAB	P3/BR4/0250
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		

QUANTITY TABLE OF ABUTMENTS

ITEMS			UNIT	ABUTMENT A1	ABUTMENT A2	TOTAL
A- ABUTMENT						
PILE	NUMBER OF PILES		PILE	78.0	78.0	156.0
	TOTAL LENGTH OF RC PILES ?????		M	3120.0	3120.0	6240.0
	CONCRETE CLASS "D "		M3	850.0	850.0	1700.0
	REINFORCEMENT	D32	KG	397.8	397.8	795.6
		D28	KG	0.0	0.0	0.0
		D25	KG	4586.4	4586.4	9172.8
		D22	KG	86767.2	2654.0	173534.4
		D16	KG	5187.0	5187.0	10374.0
		Ø6	KG	14344.2	14344.2	28688.4
		TOTAL	KG	111282.6	111282.6	222565.2
ABUTMENT	CONCRETE CLASS "E "		M3	544.6	544.6	1089
	REINFORCEMENT	D25	KG	15084.9	15084.9	30170
		D22	KG	4926.3	4926.3	9853
		D20	KG	7782.1	7782.1	15564
		D18	KG	0.0	0.0	0
		D16	KG	5308.4	5282.8	10591
		D14	KG	3664.6	3664.6	7329
		D10	KG	69.2	69.2	138
		TOTAL	KG	36835.5	36809.9	73645
	LEAN CONCRETE CLASS "G"		M3	16.9	16.9	34
	FORM		M2	527.8	527.8	1055.6
	BLINDING STONE		M3	33.9	33.9	68
	EXCAVATION FOR FOUNDATION		M3	715.1	715.1	1430.2
	BACK FILL		M3	297.5	297.5	594.9
B- APPROACH SLAB						
	CONCRETE CLASS "E"		M3	43.2	43.2	86
	LEAN CONCRETE CLASS "G"		M3	13.3	13.3	27
	ASPHALTIC JOINT FILLER T=20MM		M3	0.4	0.4	0.8
	FORM		M2	24.2	24.2	48.3
	REINFORCEMENT	D20	KG	3421.6	3421.6	6843
		D16	KG	3402.3	3402.3	6805
		D10	KG	255.8	255.8	512
		TOTAL	KG	7079.7	7079.7	14159
C- SLOPE PROTECTION						
FOOTING	WOODEN PILE L=3M		M	5931.1	5931.1	11862
	BLINDING AGGREGATE T=100MM		M3	7.9	7.9	16
	STONE MASONRY T=300MM		M3	35.6	35.6	71
	EXCAVATION		M3	949.0	949.0	1898
	BACK FILL		M3	467.7	467.7	935
SIDE SLOPE	STONE MASONRY T=300MM		M3	445.0	445.0	890
	BLINDING AGGREGATE T=100MM		M3	152.2	152.2	304
	GEOTEXTILE		M2	578.7	578.7	1157
	PVC PILE ϕ 50MM DIA., L=1000MM		M	49.4	49.4	99

NOTES

FOR STANDARD STRUCTURAL NOTES SEE DRAWING NO. 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	K.Matsumoto	K. Enomoto	BA MANG BRIDGE ABUTMENTS QUANTITY TABLE OF ABUTMENTS	P3/BR4/0260
				SIGNATURE					
				DATE	20/9/2000	29/9/2000	5/10/2000		