

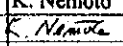
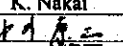



P3/BC DRAINAGE SYSTEM



SHEET No :	TITLE :
I	GENERAL
P3/BC/0010	DRAWING LIST
P3/BC/0020	ABBREVIATIONS AND SYMBOLS
P3/BC/0030	STRUCTURAL NOTES
II	GENERAL VIEW AND DETAILS OF CULVERTS
P3/BC/0040	CULVERT SCHEDULE
P3/BC/0050	GENERAL VIEW OF BOX CULVERT STATION 7+820
P3/BC/0060	GENERAL VIEW OF WING WALL STATION 7+820
P3/BC/0070	REINFORCEMENT OF WING WALL STATION 7+820
P3/BC/0080	REINFORCEMENT OF CULVERT 7+820
P3/BC/0090	GENERAL VIEW OF BOX CULVERT STATION 7+950
P3/BC/0100	GENERAL VIEW OF WING WALL STATION 7+950
P3/BC/0110	REINFORCEMENT OF WING WALL STATION 7+950
P3/BC/0120	REINFORCEMENT OF CULVERT STATION 7+950
P3/BC/0130	GENERAL VIEW OF BOX CULVERT STATION 8+820
P3/BC/0140	REINFORCEMENT OF CULVERT STATION 8+820
P3/BC/0150	GENERAL VIEW OF BOX CULVERT STATION 9+326
P3/BC/0160	REINFORCEMENT OF CULVERT STATION 9+326
P3/BC/0170	GENERAL VIEW OF BOX CULVERT STATION 9+760
P3/BC/0180	GENERAL VIEW OF WING WALL STATION 9+760
P3/BC/0190	REINFORCEMENT OF WING WALL STATION 9+760
P3/BC/0200	REINFORCEMENT OF CULVERT STATION 9+760
P3/BC/0210	GENERAL VIEW OF BOX CULVERT STATION 10+310
P3/BC/0220	REINFORCEMENT OF CULVERT STATION 10+310
P3/BC/0230	GENERAL VIEW OF BOX CULVERT STATION 10+690
P3/BC/0240	REINFORCEMENT OF CULVERT STATION 10+690
P3/BC/0250	GENERAL VIEW OF BOX CULVERT STATION 10+950
P3/BC/0260	REINFORCEMENT OF CULVERT STATION 10+950
P3/BC/0270	GENERAL VIEW OF BOX CULVERT STATION 11+690
P3/BC/0280	REINFORCEMENT OF CULVERT STATION 11+690
P3/BC/0290	GENERAL VIEW OF BOX CULVERT STATION 11+976.50
P3/BC/0300	GENERAL VIEW OF WING WALL STATION 11+976.50
P3/BC/0310	REINFORCEMENT OF WING WALL TYPE I STATION 11+976.50
P3/BC/0320	REINFORCEMENT OF WING WALL TYPE II STATION 11+976.50
P3/BC/0330	REINFORCEMENT OF WING WALL TYPE III STATION 11+976.50
P3/BC/0340	REINFORCEMENT OF CULVERT STATION 11+976.50
P3/BC/0350	REINFORCEMENT OF RETAINING WALL STATION 11+976.50

SHEET No :	TITLE :
P3/BC/0360	GENERAL VIEW OF BOX CULVERT STATION 12+180
P3/BC/0370	REINFORCEMENT OF CULVERT STATION 12+180
P3/BC/0380	GENERAL VIEW OF BOX CULVERT STATION 12+592.50
P3/BC/0390	GENERAL VIEW OF WING WALL STATION 12+592.50
P3/BC/0400	REINFORCEMENT OF WING WALL TYPE I STATION 12+592.50
P3/BC/0410	REINFORCEMENT OF WING WALL TYPE II STATION 12+592.50
P3/BC/0420	REINFORCEMENT OF WING WALL TYPE III STATION 12+592.50
P3/BC/0430	REINFORCEMENT OF CULVERT STATION 12+592.50
P3/BC/0440	REINFORCEMENT OF RETAINING WALL STATION 12+592.50
P3/BC/0450	GENERAL VIEW OF BOX CULVERT STATION 12+756
P3/BC/0460	GENERAL VIEW OF WING WALL STATION 12+756
P3/BC/0470	REINFORCEMENT OF WING WALL TYPE I STATION 12+756
P3/BC/0480	REINFORCEMENT OF WING WALL TYPE II STATION 12+756
P3/BC/0490	REINFORCEMENT OF CULVERT STATION 12+756
P3/BC/0500	GENERAL VIEW OF BOX CULVERT STATION 14+890
P3/BC/0510	REINFORCEMENT OF CULVERT STATION 14+890
P3/BC/0520	GENERAL VIEW OF BOX CULVERT - INTERCHANGE 3 RAMP "A" STATION 0+154
P3/BC/0530	REINFORCEMENT OF CULVERT - INTERCHANGE 3 RAMP "A" STATION 0+154
P3/BC/0540	GENERAL VIEW OF BOX CULVERT - INTERCHANGE 3 RAMP "B" STATION 0+286.50
P3/BC/0550	REINFORCEMENT OF CULVERT - INTERCHANGE 3 RAMP "B" STATION 0+286.50
P3/BC/0560	GENERAL VIEW OF BOX CULVERT - INTERCHANGE 3 RAMP "C" STATION 0+300
P3/BC/0570	GENERAL VIEW OF WING WALL - INTERCHANGE 3 RAMP "C" STATION 0+300
P3/BC/0580	REINFORCEMENT OF WING WALL - INTERCHANGE 3 RAMP "C" STATION 0+300
P3/BC/0590	REINFORCEMENT OF CULVERT - INTERCHANGE 3 RAMP "C" STATION 0+300
P3/BC/0600	GENERAL VIEW OF BOX CULVERT - INTERCHANGE 3 RAMP "D" STATION 0+100
P3/BC/0610	REINFORCEMENT OF CULVERT - INTERCHANGE 3 RAMP "D" STATION 0+100
P3/BC/0620	GENERAL VIEW OF BOX CULVERT - INTERCHANGE 3 RAMP "E" STATION 0+180
P3/BC/0630	GENERAL VIEW OF WING WALL - INTERCHANGE 3 RAMP "E" STATION 0+180
P3/BC/0640	REINFORCEMENT OF WING WALL TYPE I - INTERCHANGE 3 RAMP "E" STATION 0+180
P3/BC/0650	REINFORCEMENT OF WING WALL TYPE II - INTERCHANGE 3 RAMP "E" STATION 0+180
P3/BC/0660	REINFORCEMENT OF CULVERT - INTERCHANGE 3 RAMP "E" STATION 0+180
P3/BC/0670	GENERAL VIEW OF BOX CULVERT - INTERSECTION 4 RAMP "B" STATION 0+223
P3/BC/0680	REINFORCEMENT OF CULVERT - INTERSECTION 4 RAMP "B" STATION 0+223
P3/BC/0690	DETAIL OF CONNECTION JOINT AND CONNECTION BETWEEN BOX AND WING WALL
P3/BC/0700	TOTAL QUANTITIES TABLE OF ALL CULVERTS

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 KOBEL CO.,LTD.	NAME: K. Nemoto SIGNATURE:  DATE: 20/9/2000	NAME: K. Nakai SIGNATURE:  DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE:  DATE: 5/10/2000	DRAWING LIST	P3/BC/0010

ABBREVIATIONS AND SYMBOLS

⊙	AT
&	AND
BC	BOX CULVERT
CL	CENTERLINE
cm	CENTIMETER
C.J	CONSTRUCTION JOINT
DIA or ϕ	DIAMETER
ELEV	ELEVATION
H	HEIGHT
D.F.W.L	DATUM FLOODED WATER LEVEL
kg	KILOGRAM
Km	KILOMETER
m	METER
m ²	SQUARE METER
m ³	CUBIC METER
MAX	MAXIMUM
mm	MILIMETER
MIN	MINIMUM
%	PERCENT
P.C	PIPE CULVERT
R.C	REINFORCED CONCRETE
RW	RETAINING WALL
STA	STATION
T	THICKNESS
W	WIDTH

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.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">NAME</td> <td>K. Nemoto</td> <td>K. Nakai</td> <td>K. Enomoto</td> </tr> <tr> <td>SIGNATURE</td> <td><i>K. Nemoto</i></td> <td><i>K. Nakai</i></td> <td><i>K. Enomoto</i></td> </tr> <tr> <td>DATE</td> <td>20/9/2000</td> <td>29/9/2000</td> <td>5/10/2000</td> </tr> </table>	NAME	K. Nemoto	K. Nakai	K. Enomoto	SIGNATURE	<i>K. Nemoto</i>	<i>K. Nakai</i>	<i>K. Enomoto</i>	DATE	20/9/2000	29/9/2000	5/10/2000				ABBREVIATIONS AND SYMBOLS	P3/BC/0020
NAME	K. Nemoto	K. Nakai	K. Enomoto																		
SIGNATURE	<i>K. Nemoto</i>	<i>K. Nakai</i>	<i>K. Enomoto</i>																		
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, COORDINATES, ELEVATIONS ARE IN METRES. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE INDICATED.
- 1.4. THE ELEVATION SYSTEM IS REFERRED TO THE MEAN SEA DATUM ELEVATION AT HONDAU - DO SON. COORDINATE IS REFERRED TO THE NATIONAL GRID SYSTEM.

2. DESIGN CRITERIA & LOADS

- 2.1. DESIGN STANDARDS:
 - AASHTO 98 - LRFD BRIDGE DESIGN SPECIFICATIONS
 - AASHTO GUIDE SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF SEGMENTAL CONCRETE BRIDGES
 - VIETNAMESE HIGHWAY BRIDGES STANDARDS 1979

3. CONCRETE

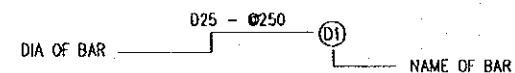
- 3.1. UNLESS OTHERWISE INDICATED CONCRETE SHALL BE OF THE FOLLOWING GRADES BASED ON 28 DAY CYLINDER STRENGTH f_c :

CONCRETE CLASS	STRENGTH f_c MPa	KIND OF STRUCTURE IN USE
E	24	BOX CULVERT, PIPE CULVERT RETAINING WALL, WINGWALL, SUPPORT OF PIPE, DROP INLET, CATCH PIT, COVER
F	20	APRON, KERB
G	15	LEAN CONCRETE

- 3.2. WHEREVER FORMS ARE NOT USED REINFORCED CONCRETE SHALL BE PLACED AGAINST 100 MM MINIMUM THICKNESS LEAN CONCRETE.
- 3.3. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 20x20 MM 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 AS SHOWN ON DRAWING.
- 4.2. REINFORCEMENT SHALL BE ASTM A615 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.
- 4.6. MINIMUM SPLICE LENGTH SHALL BE IN ACCORDANCE WITH AASHTO LRFD 9B.
- 4.7. STANDARD HOOKS AND MINIMUM BEND DIAMETER SHALL BE IN ACCORDANCE WITH AASHTO LRFD 9B.
- 4.8. REINFORCEMENTS INDICATED 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 9B.
 - C) NOT MORE THAN ONE BAR PER LINE IS TO BE SHORTER THAN 12 METRES FOR ALL
- 4.9. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, THE MINIMUM COVER TO MAIN REINFORCEMENT SHALL BE 50 mm, TOLERANCE ON COVER IS +/- 5mm.

5. STONE MASONRY:

- MOTAR: 10 MPa.

6. THE OTHER SPECIFIED IS TO BE KEPT


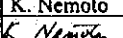

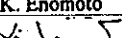
- 6.1. THE BOX CULVERTS FOR PATH AND DRAINAGE STRUCTURE OF PATH AS FOLLOWING:
 - BED COURES: SAND FILL THE HEIGHT IS VARIED 0.7m-1.4m
 - UPPER LAYER (SUPPER STRATUM): LATERITE 40cm
 - DEGREE OF COMPACTION $K=0.98$
- 6.2. GROUND WORK OF BOX CURVERT:
 - 15 cm SAND BEDDING
 - 20 cm CONCRETE CLASS F
- 6.3. GROUND WORK OF WINGWALL, APRON:
 - 15 cm BEDDING
 - 10 cm CONCRETE CLASS G
- 6.4. TO CONSOLIDATE FOR FOUNDATION OF CULVERT THE LENGTH OF WOODPILE IS VARIED AS FOLLOWING:
 - 5 m UNDER BARREL OF BOX AND PIPE CULVERT, WINGWALL
 - 3 m UNDER APRON, PATH AND TOE OF SLOPE.
- 6.5. AT THE CULVERTS HAVE THE HEIGHT OF BARREL > 1.5 m. TO PROTECT SIDE SLOPE FOR BOTH SIDE OF WINGWALL STONE MASONRY IS TO BE USED THE LENGTH OF PROTECTION: 5 m FROM THE END OF WINGWALL
- 6.6. QUANTITIES OF TRENCH CUT AND BACKFILL OF BOX CULVERT IS CALCULATED IN THE EARTHWORKS OF APPROACH ROAD.

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: K. Nemoto SIGNATURE: DATE: 20/9/2000	K. Nakai 29/9/2000	K. Enomoto 5/10/2000	STRUCTURAL NOTES	P3/BC/0030

STRUCTURE SCHEDULE OF CULVERT CAN THO SIDE

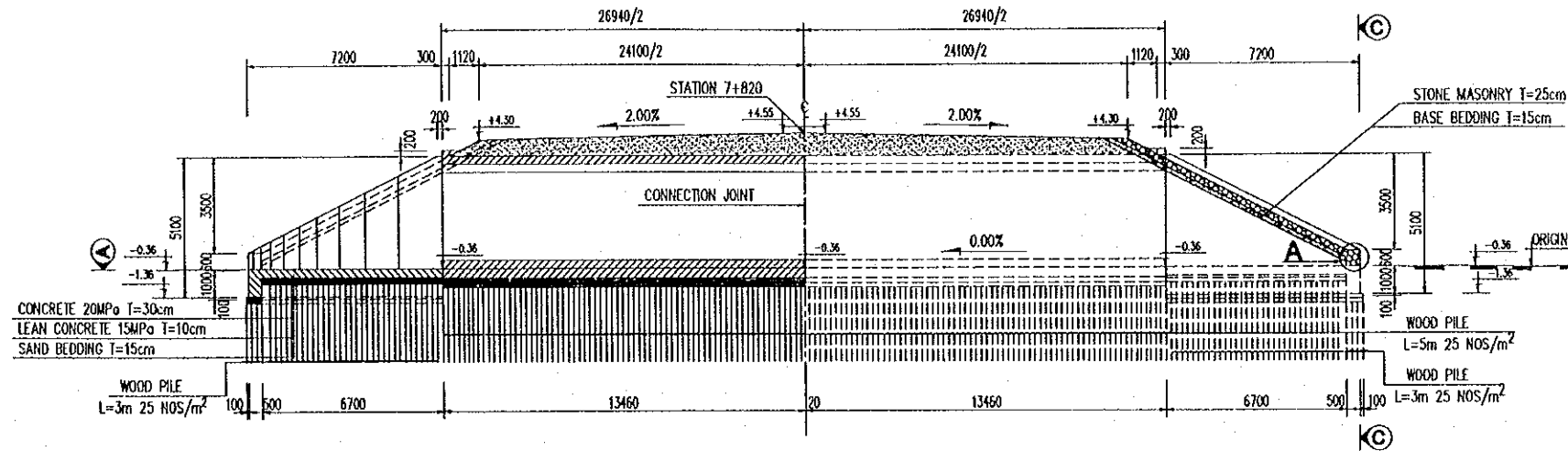
STATION : FROM KM7+660 TO KM 15+350

No	Station	Dimension W x H (m)	Type	Segments	Length (m)			Finished elevation (m)			Bottom elevation (m)	Skew Angle α ($^{\circ}$)	Remarks
					Left	Right	Total	Left	Center	Right			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
I	MAIN ROUTE												
1	Km 7+820	3.0 x 3.8	Single	2	13.47	13.47	26.94	4.30	4.55	4.30	-0.36		For drainage
2	Km 7+950	2.5 x 2.0	Double	2	13.35	13.35	26.70	3.53	3.77	3.53	0.78		For drainage
3	Km 8+820	2.5 x 2.0	Double	2	17.23	13.73	30.96	3.80	4.12	3.87	0.93		For drainage
4	Km 9+326	2.5 x 2.0	Double	2	21.89	15.96	37.85	4.63	4.92	4.76	0.70		For drainage
5	Km 9+760	2.5 x 1.5	Double	2	14.16	21.95	36.11	3.19	3.36	3.03	0.78		For drainage
6	Km 10+310	2.5 x 2.0	Double	2	16.48	14.76	31.24	3.87	4.03	3.87	0.76		For drainage
7	Km 10+690	2.5 x 1.5	Double	2	13.87	17.66	31.53	2.57	2.71	2.46	0.21		For drainage
8	Km 10+950	2.5 x 1.5	Double	2	13.35	13.35	26.70	2.33	2.57	2.33	0.07		For drainage
9	Km 11+451	2.5 x 1.5	Double	2	13.35	13.35	26.70	2.73	2.97	2.73	0.47		For drainage
10	Km 11+690	2.5 x 2.0	Double	2	15.60	15.60	31.20	3.93	4.18	3.93	0.06		For drainage
11	Km 11+976.50	5.0 x 4.0	Single	2	13.83	13.31	27.14	5.38	5.62	5.38	0.44	85L	For path & drainage
12	Km 12+180	2.5 x 2.0	Double	2	19.22	19.22	38.44	6.09	6.33	6.09	0.40		For drainage
13	Km 12+592.50	5.0 x 4.0	Single	2	15.12	13.56	28.69	5.53	5.77	5.53	0.44	75L	For path & drainage
14	Km 12+756	3.0 x 3.8	Single	2	15.38	14.11	29.49	4.54	4.78	4.54	-0.36	71L	For drainage
15	Km 13+600	2.5 x 1.5	Double	2	13.35	13.35	26.70	2.62	2.87	2.62	0.37		For drainage
16	Km 14+247	5.0 x 4.0	Single	2	15.12	13.56	28.69	5.48	5.72	5.48	0.44	75L	For path & drainage
17	Km 14+450	2.5 x 1.5	Double	2	13.35	13.35	26.70	2.61	2.85	2.61	0.35		For drainage
18	Km 14+625	2.5 x 1.5	Double	2	13.35	13.35	26.70	2.49	2.74	2.49	0.24		For drainage
19	Km 14+890	2.5 x 1.5	Double	2	13.35	15.21	28.56	2.43	2.67	2.60	0.17		For drainage
II	INTERCHANGE 3												For drainage
1	Ramp "A" - Km 0+154	2.5x1.5	Double	1			13.10	3.09	3.23	3.09	0.84		For drainage
2	Ramp "B" - Km 0+286.5	2.5x1.5	Double	1			10.12	2.69	2.80	2.70	0.44		For drainage
3	Ramp "C" - Km 0+300	5.0x4.0	Single	1			13.46	3.77	3.73	3.59	-1.26		For drainage
4	Ramp "D" - Km 0+100	2.5x2.0	Double	1			10.12	3.48	3.59	3.49	0.73		For drainage
5	Ramp "E" - Km 0+180	5.0x4.0	Single	1			13.94	3.71	3.84	3.71	-1.15	70L	For drainage
III	INTERSECTION 4												
1	Ramp "B" - Km 0+223	2.5x1.5	Double	1			12.50	2.52	2.63	2.72	0.27		For drainage

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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 KOBI CO.,LTD.	NAME: K. Nemoto SIGNATURE:  DATE: 20/9/2000	K. Nakai  24/9/2000	K. Enomoto  5/10/2000	CULVERT SCHEDULE	P3/BC/0040

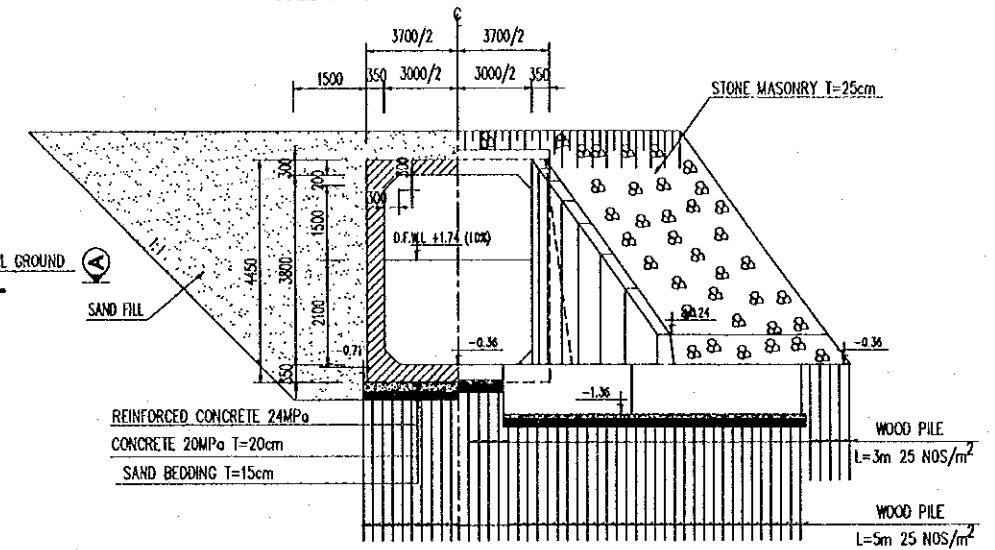
BOX CULVERT FOR DRAINAGE (STATION 7+820)

PROFILE
SCALE 1:250



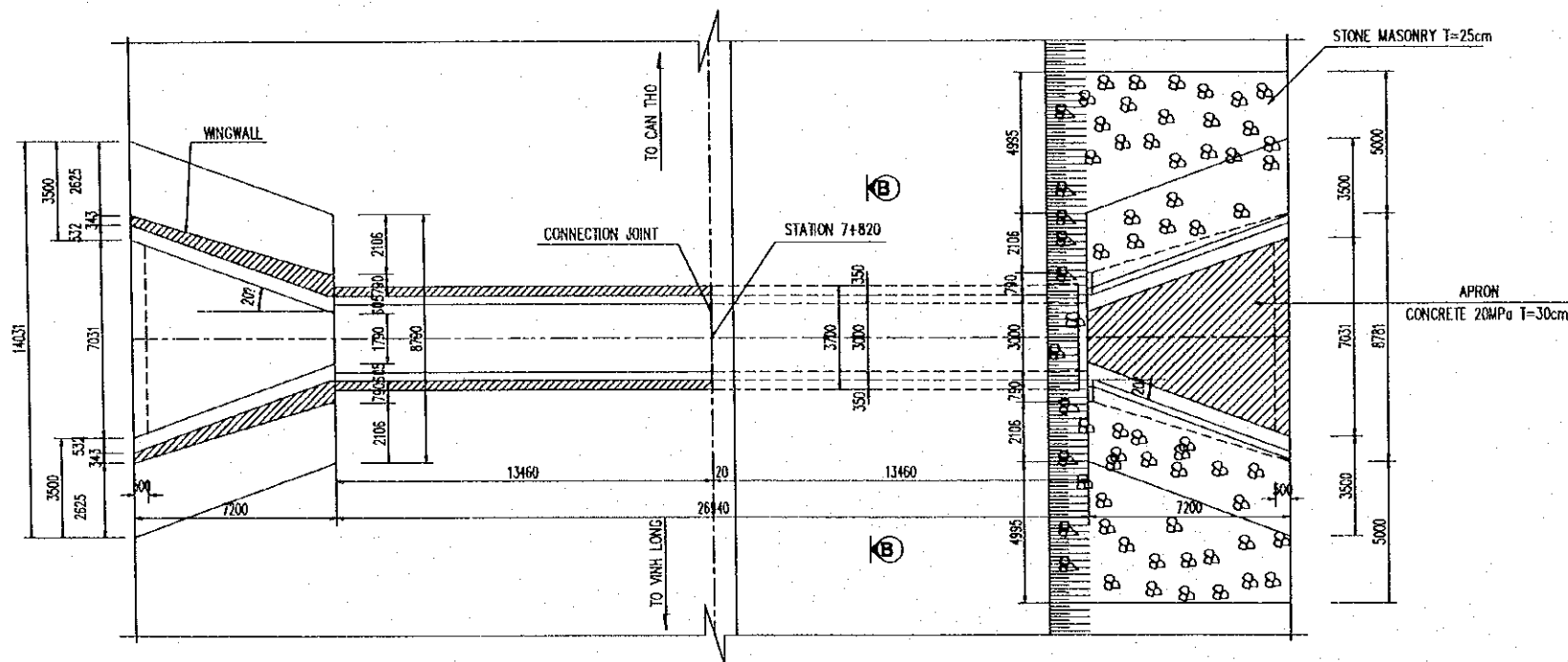
SECTION
SCALE 1:150

1/2 B-B 1/2 C-C

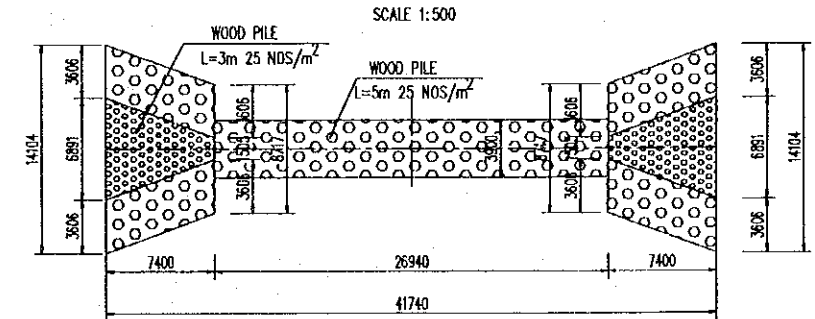


1/2 A-A
SCALE 1:250

1/2 PLAN
SCALE 1:250



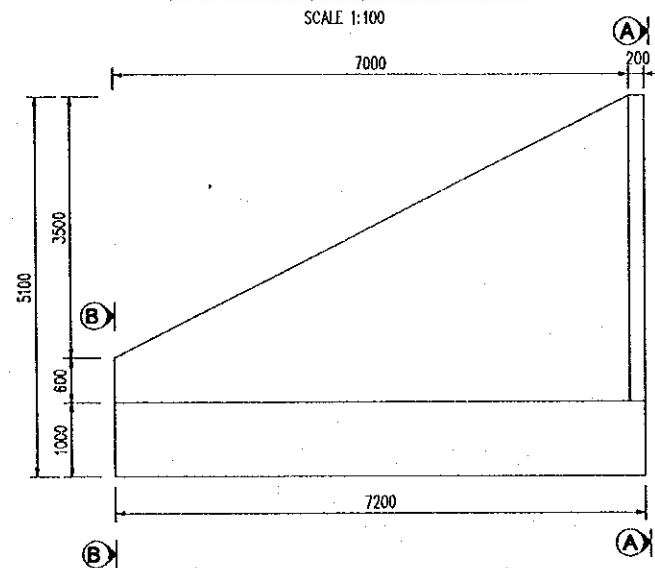
PLAN LAYOUT OF WOOD PILE
SCALE 1:500



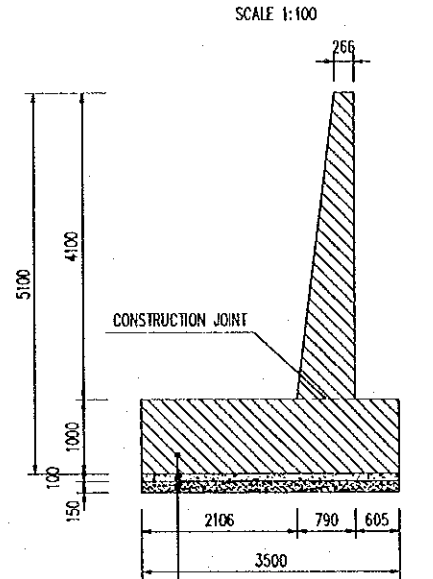
- NOTES :
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 - 2- ELEVATIONS ARE IN METERS IN REFERENCE TO THE NATIONAL DATUM LEVEL.
 - 3- DETAIL A IS SHOWN IN THE DOCUMENT OF APPROACH ROAD - DRAWING No P3/MS/0190.

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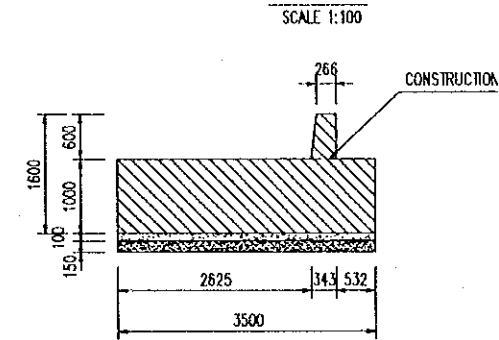
WING WALL DETAIL



A - A

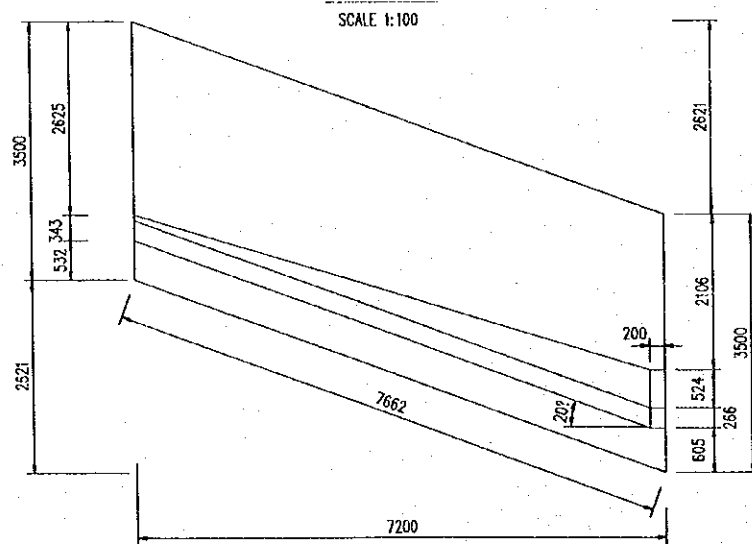


B - B



REINFORCED CONCRETE 24MPa I=100cm
 LEAN CONCRETE 15MPa I=10cm
 SAND BEDDING I=15cm

PLAN



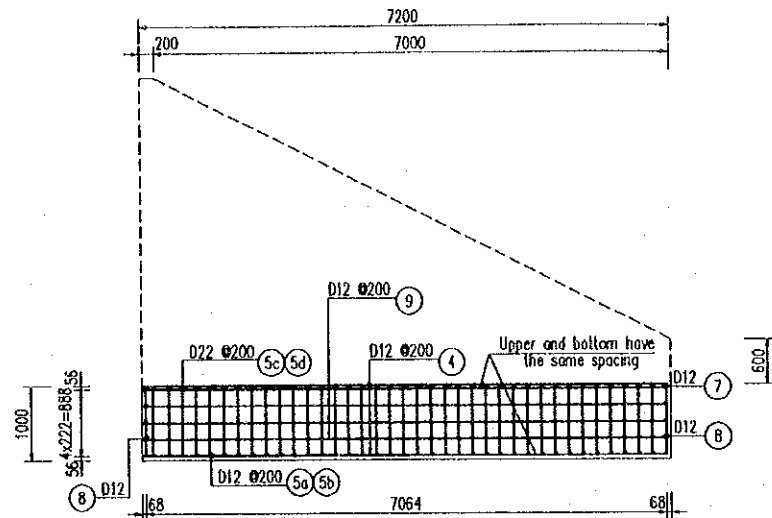
NOTES:

1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.

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: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 24/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	GENERAL VIEW OF WING WALL STATION 7+820	P3/BC/0060

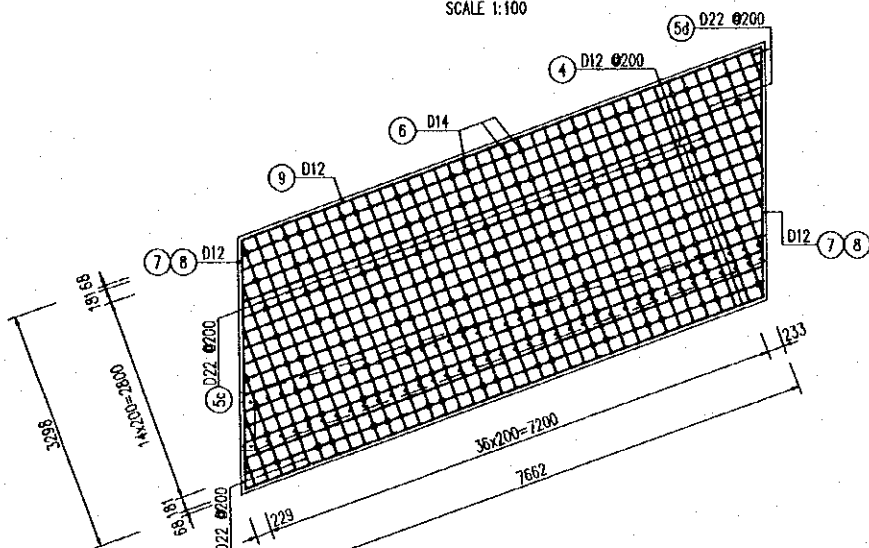
REINFORCEMENT OF FOOTING

SCALE 1:100



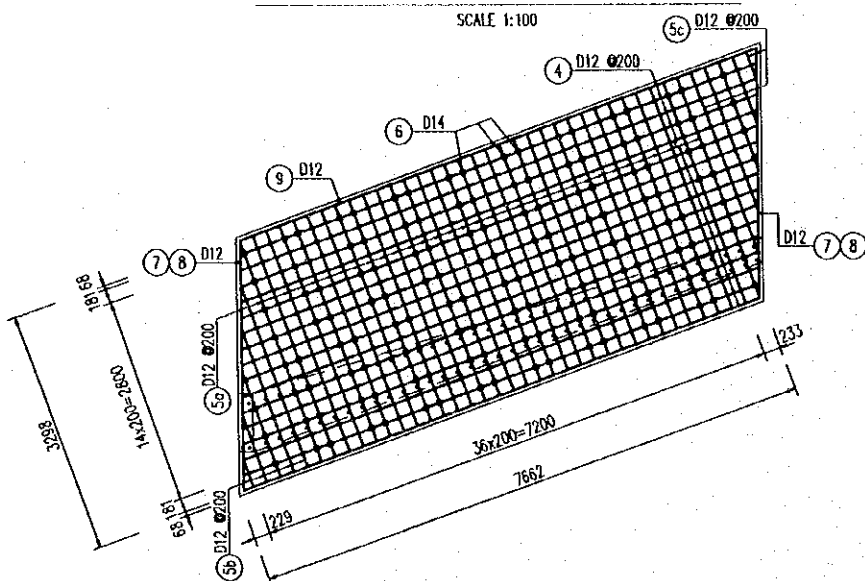
TOP REINFORCEMENT

SCALE 1:100



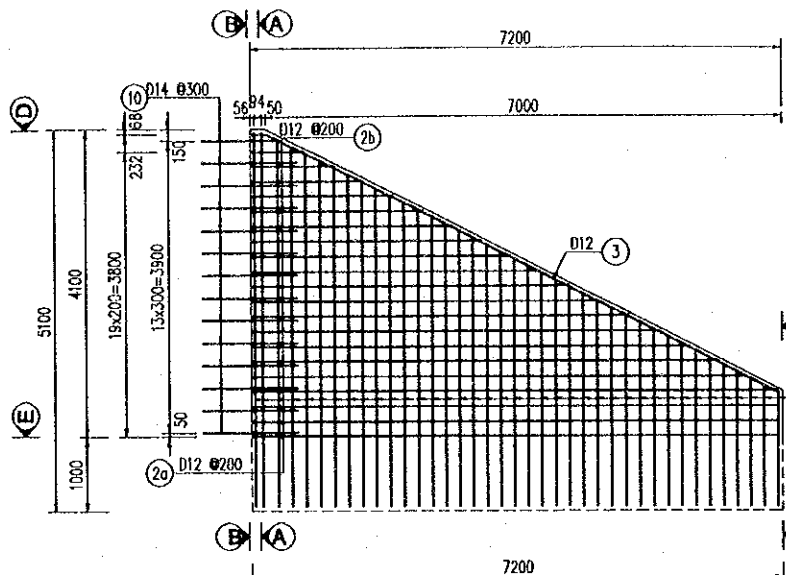
BOTTOM REINFORCEMENT

SCALE 1:100



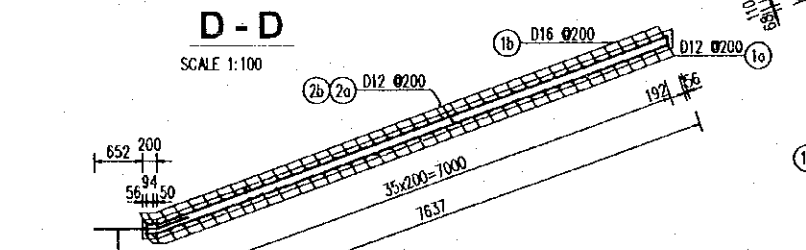
REINFORCEMENT OF WING WALL

SCALE 1:100



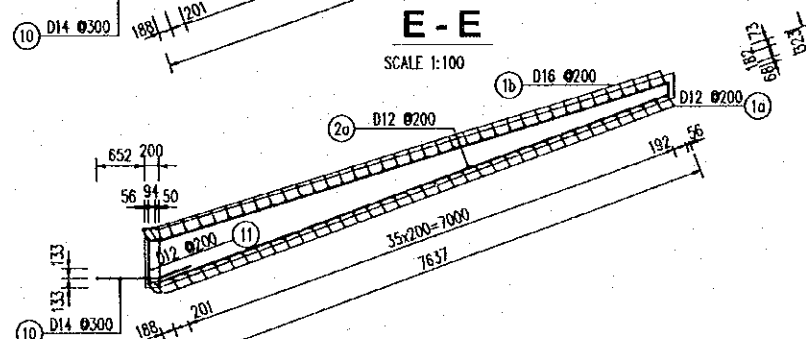
D-D

SCALE 1:100



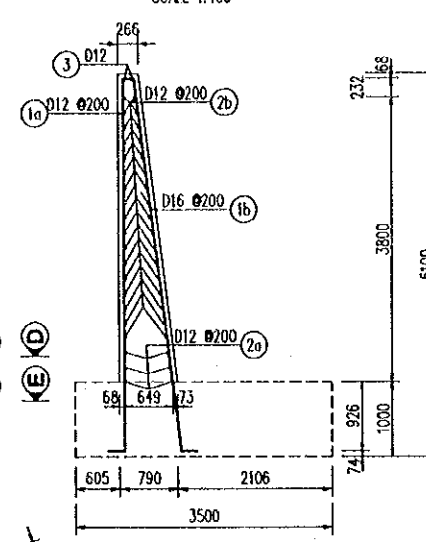
E-E

SCALE 1:100



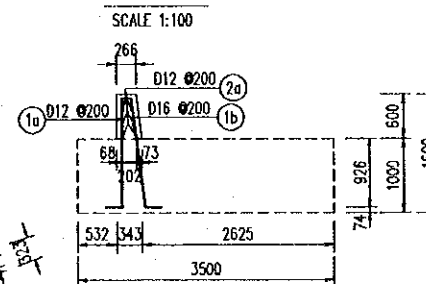
A-A

SCALE 1:100



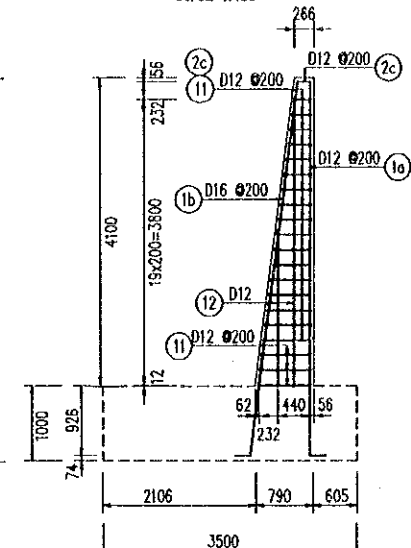
C-C

SCALE 1:100



B-B

SCALE 1:100



QUANTITIES TABLE

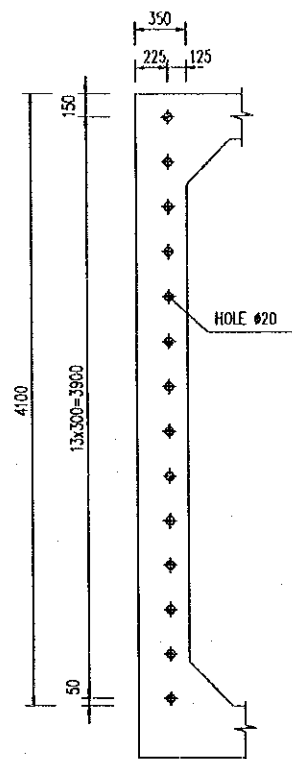
BAR MARK	UNIT LENGTH	DIAMETER	NUMBER OF BAR	UNIT WEIGHT	TOTAL LENGTH	TOTAL WEIGHT
	(mm)			(kg/m)		
1a	3424	12	39	0.888	133.5	118.6
1b	3520	16	39	1.578	137.3	216.7
2a	7647	12	3	0.888	22.9	20.4
2b	4386	12	16	0.888	70.2	62.3
2c	592	12	39	0.888	23.1	20.5
3	8597	12	2	0.888	17.2	15.3
4	8617	12	34	0.888	293.0	260.1
5a	4953	12	33	0.888	163.4	145.1
5b	3286	12	10	0.888	32.9	29.2
5c	3947	22	33	2.984	130.3	388.7
5d	2280	22	10	2.984	22.8	68.0
6	2944	12	72	0.888	212.0	188.2
7	3801	12	4	0.888	15.2	13.5
8	3801	12	6	0.888	22.8	20.2
9	7543	12	6	0.888	45.3	40.2
10	1304	14	14	1.208	18.3	22.1
11	893	12	12	0.888	10.7	9.5
12	3134	12	2	0.888	6.3	5.6
CONCRETE : 33.22 m ³				REINFORCEMENT D<=14		970.6 kg
				REINFORCEMENT 14< D<=25		673.4 kg
				TOTAL REINFORCEMENT :		1644.0 kg

NOTES :
1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
2- THIS QUANTITIES TABLE IS ONLY CALCULATED FOR ONE WING WALL.

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 KOBİ CO.,LTD.	PREPARED BY K. Nemoto	CHECKED BY K. Nakai	APPROVED BY K. Enomoto	DRAWING TITLE REINFORCEMENT OF WING WALL STATION 7 + 820	DWG NO. P3/BC/0070
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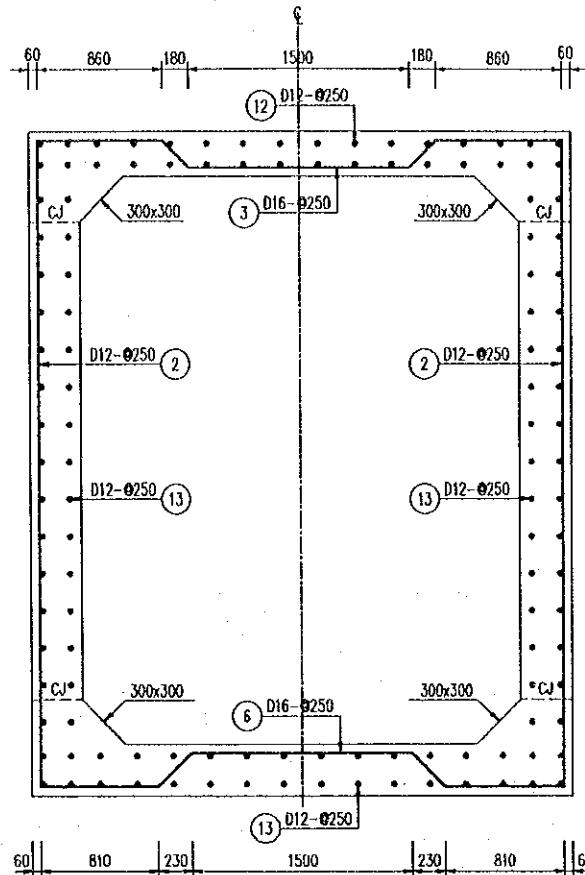
POSITION OF HOLE

(SCALE 1:50)



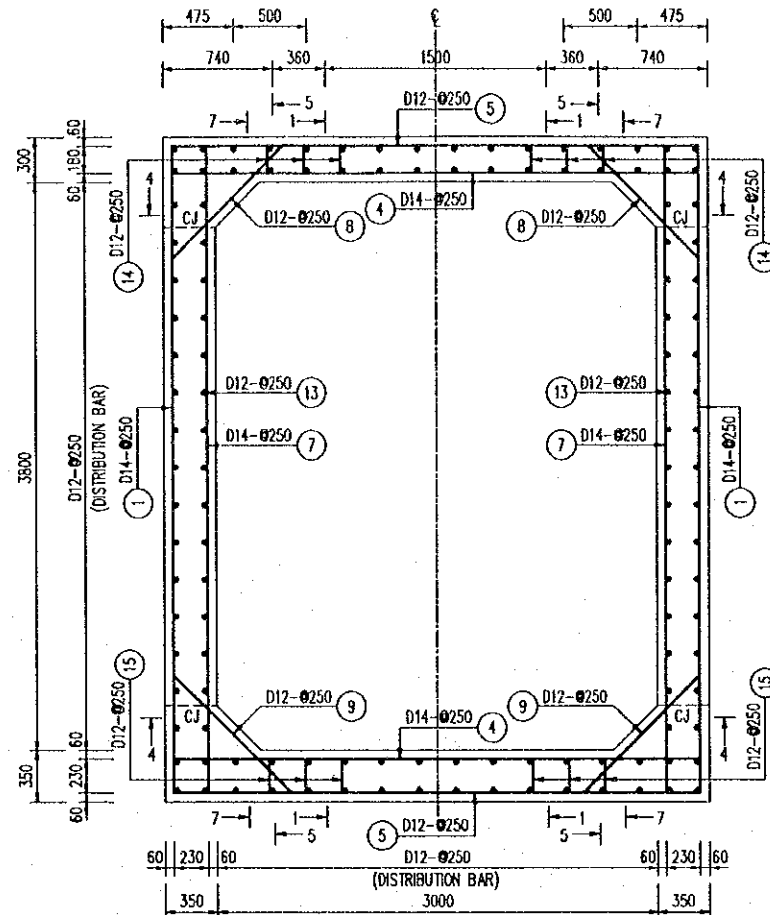
SECTION B - B

(SCALE 1:50)



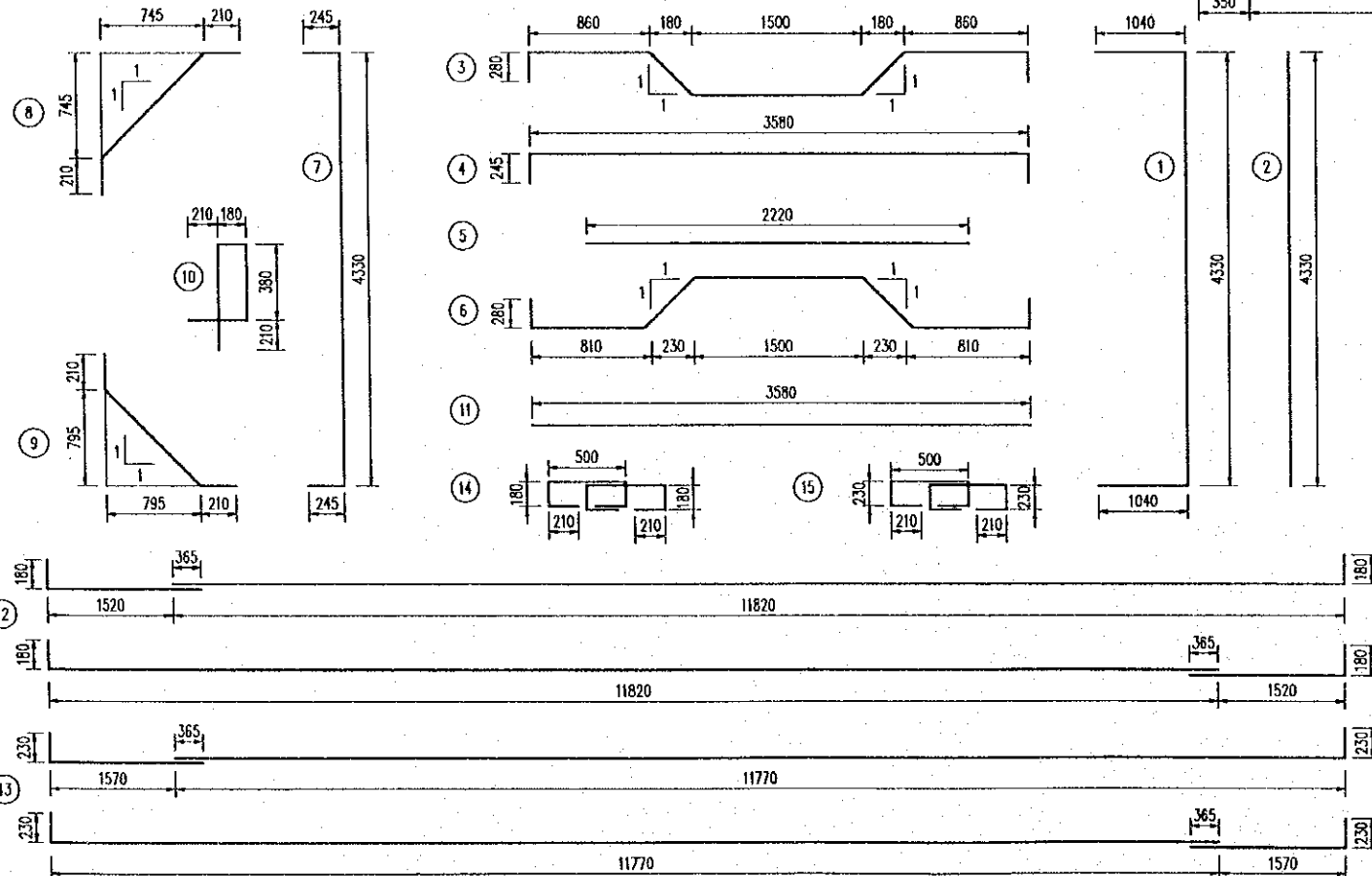
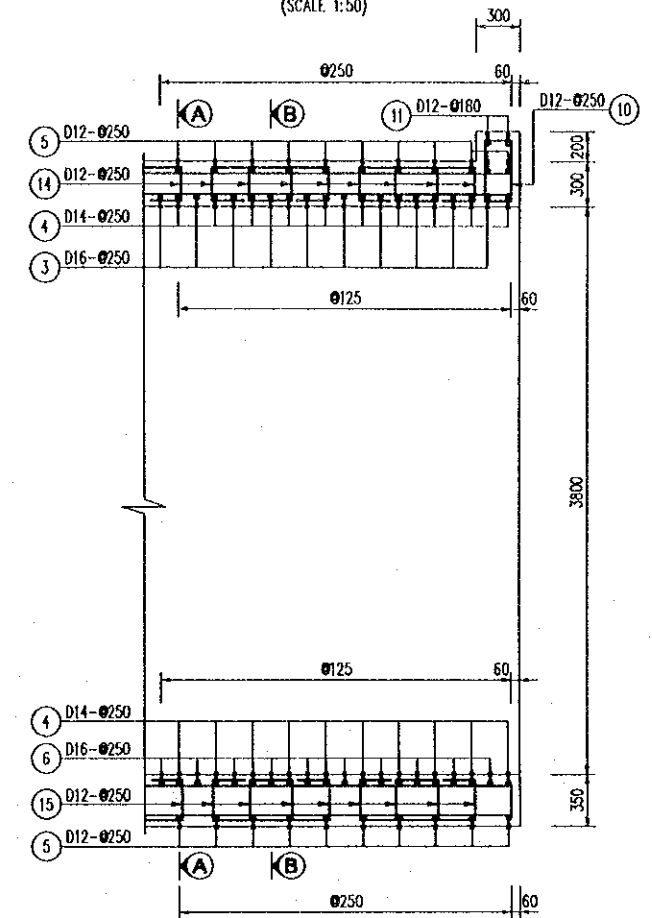
SECTION A - A

(SCALE 1:50)



THE END OF BARREL

(SCALE 1:50)



QUANTITIES TABLE

SYMBOL OF BAR	UNIT LENGTH (mm)	SPACE (mm)	DIAMETER (mm)	NUMBER OF BAR	UNIT WEIGHT (kg/m)	TOTAL LENGTH	TOTAL WEIGHT	
						(m)	(kg)	
1	6410	250	14	108	1.208	692.28	836.6	
2	4330	250	12	106	0.888	458.98	407.5	
3	4289	250	16	53	1.578	227.32	358.8	
4	4070	250	14	108	1.208	439.56	531.2	
5	2220	250	12	108	0.888	239.76	212.9	
6	4331	250	16	53	1.578	229.54	362.3	
7	4820	250	14	108	1.208	520.56	629.1	
8	1474	250	12	108	0.888	159.15	141.3	
9	1544	250	12	108	0.888	166.78	148.1	
10	1540	250	12	16	0.888	24.64	21.9	
11	3580	180	12	2	0.888	7.16	6.4	
12	14065	250	12	32	0.888	450.08	399.6	
13	14165	250	12	92	0.888	1303.18	1157.0	
14	1280	250	12	162	0.888	207.36	184.1	
15	1380	250	12	162	0.888	223.56	198.5	
TOTAL FOR 1 SEGMENT					CONCRETE :	70.82 m ³	REINFORCEMENT :	5595.0 kg
TOTAL FOR THE WHOLE OF CULVERT					CONCRETE :	141.64 m ³	REINFORCEMENT :	11189.9 kg

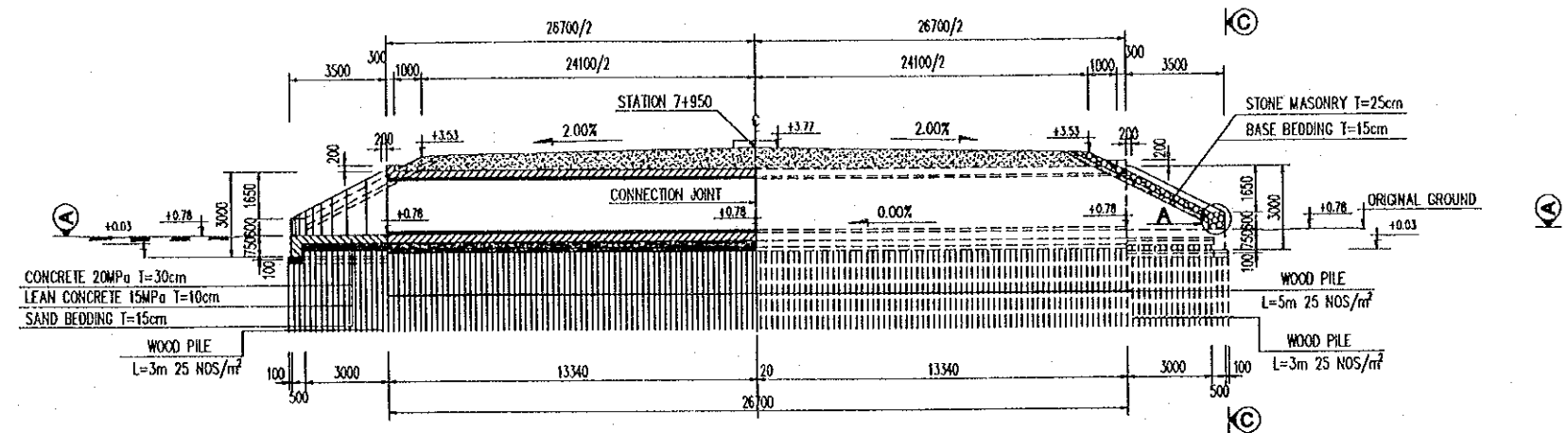
NOTES :

- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- 2- LENGTH OF SEGMENT SEE GENERAL VIEW DRAWING.

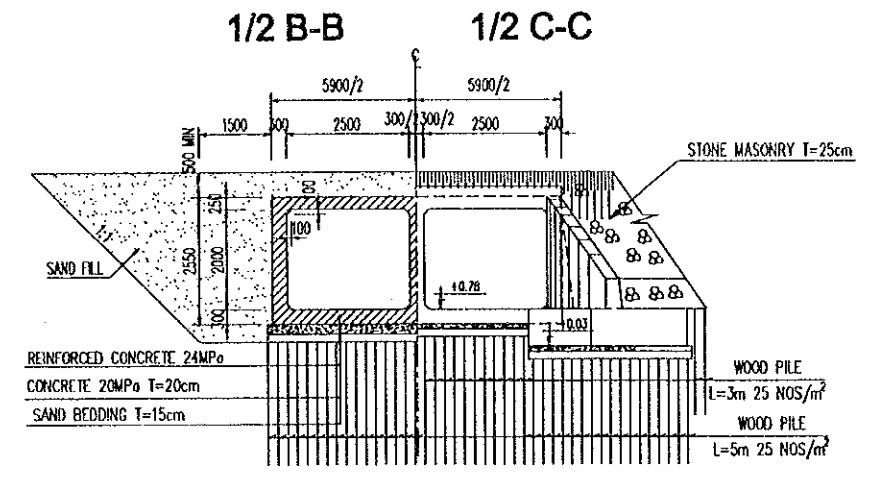
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOEI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	REINFORCEMENT OF CULVERT STATION 7+820	P3/BC/0080

BOX CULVERT FOR DRAINAGE (STATION 7+950)

PROFILE
SCALE 1:250

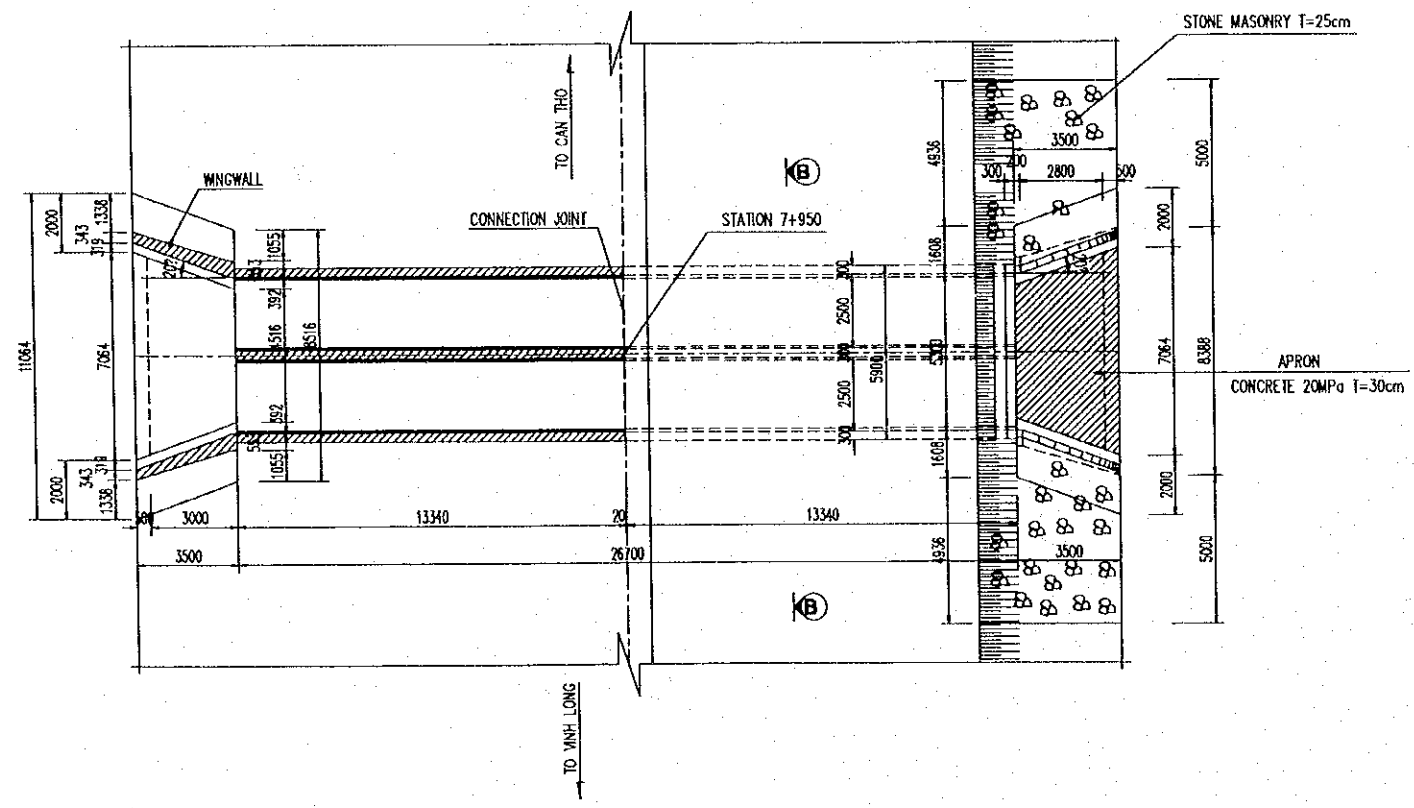


SECTION
SCALE 1:150

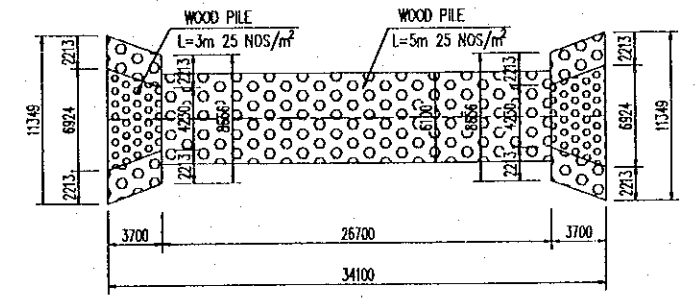


1/2 A-A
SCALE 1:250

1/2 PLAN
SCALE 1:250

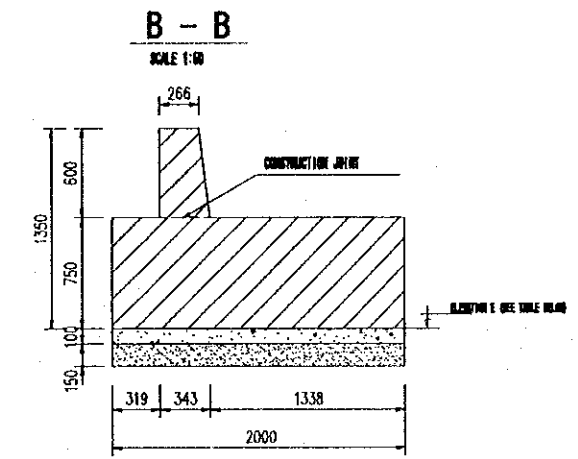
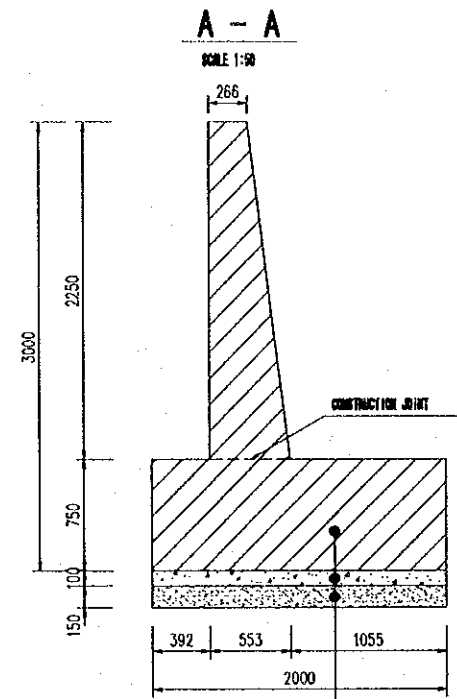
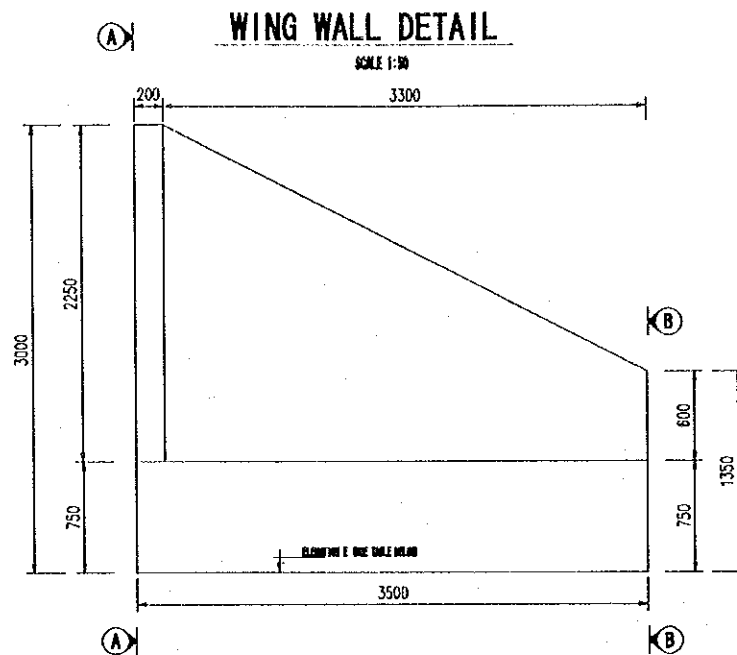


PLAN LAYOUT OF WOOD PILE
SCALE 1:500



- NOTES:
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 - 2- ELEVATIONS ARE IN METERS IN REFERENCE TO THE NATIONAL DATUM LEVEL.
 - 3- DETAIL A IS SHOWN IN THE DOCUMENT OF APPROACH ROAD - DRAWING No P3/MS/0190.

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 KOBİ CO.,LTD.	K. Nemoto	K. Nakai	K. Enomoto	GENERAL VIEW OF BOX CULVERT STATION 7 + 950	P3/BC/0090
				NAME				
				SIGNATURE	<i>K. Nemoto</i>	<i>K. Nakai</i>		
				DATE	20/9/2000	29/9/2000	5/10/2000	



REINFORCED CONCRETE 30MPa T=75cm
 LEAN CONCRETE T=10cm
 SAND BEDDING T=10cm

PLAN
SCALE 1:50

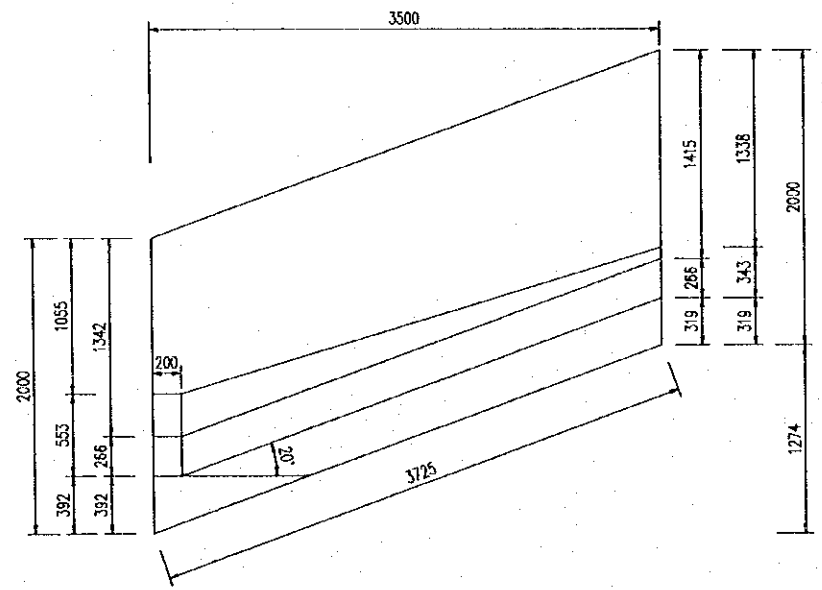


TABLE OF ELEVATION E

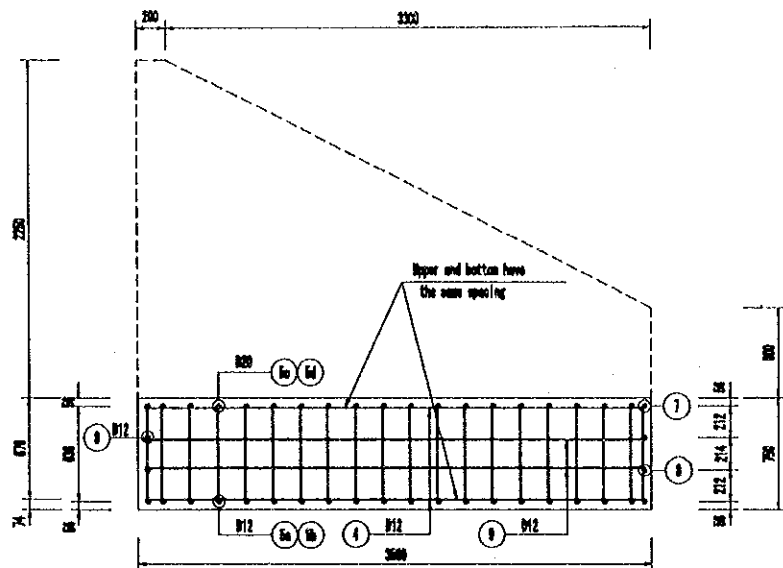
No	STATION	ELEVATION
01	7+050	0.03
02	00+820	0.18
03	00+328	-0.05
04	10+310	0.01
05	11+000	-0.00
06	12+100	-0.35
07	INTERCHANGE 3 - RAMP "D" - Km 0+100	-0.02

NOTES:
 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 2- THIS DRAWING IS USED FOR BOX CULVERTS AT STATIONS IN THE ABOVE TABLE.

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 KOBI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 24/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	GENERAL VIEW OF WINGWALL STATION 7+950	P3/BC/0100

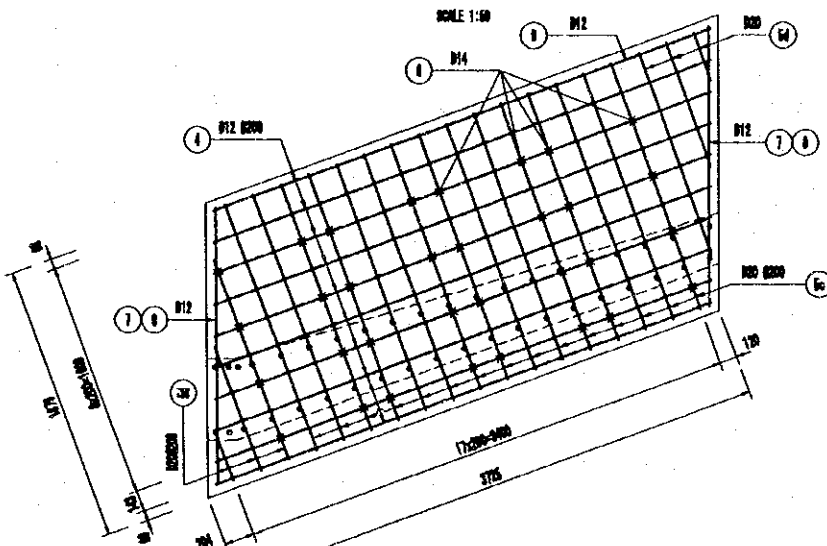
REINFORCEMENT OF FOOTING

SCALE 1:50



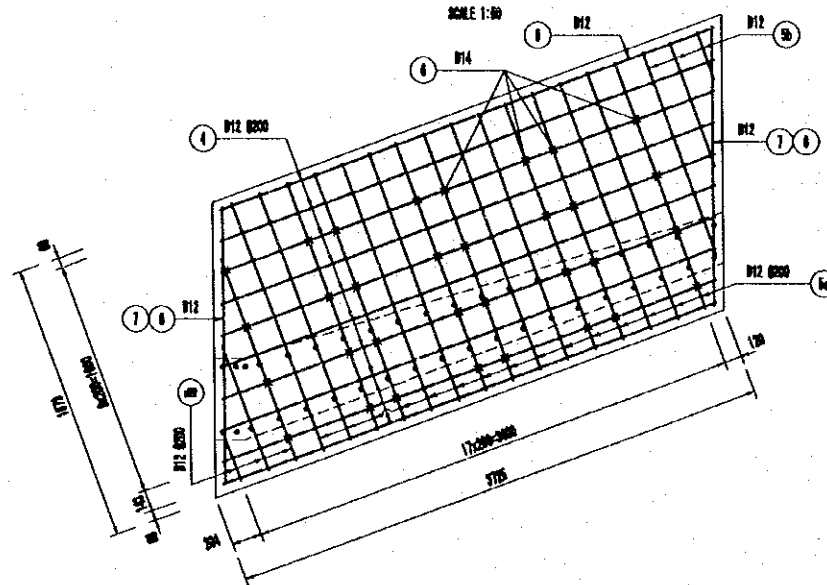
TOP REINFORCEMENT

SCALE 1:50



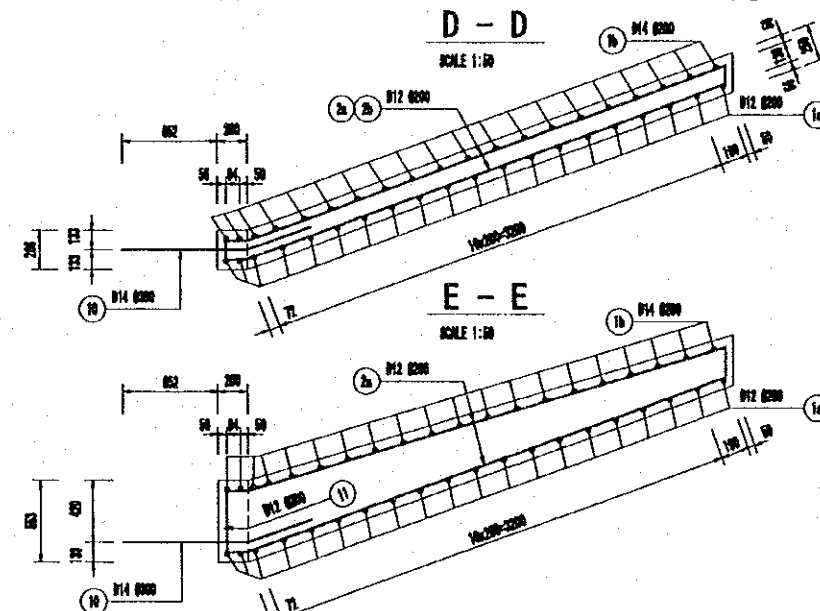
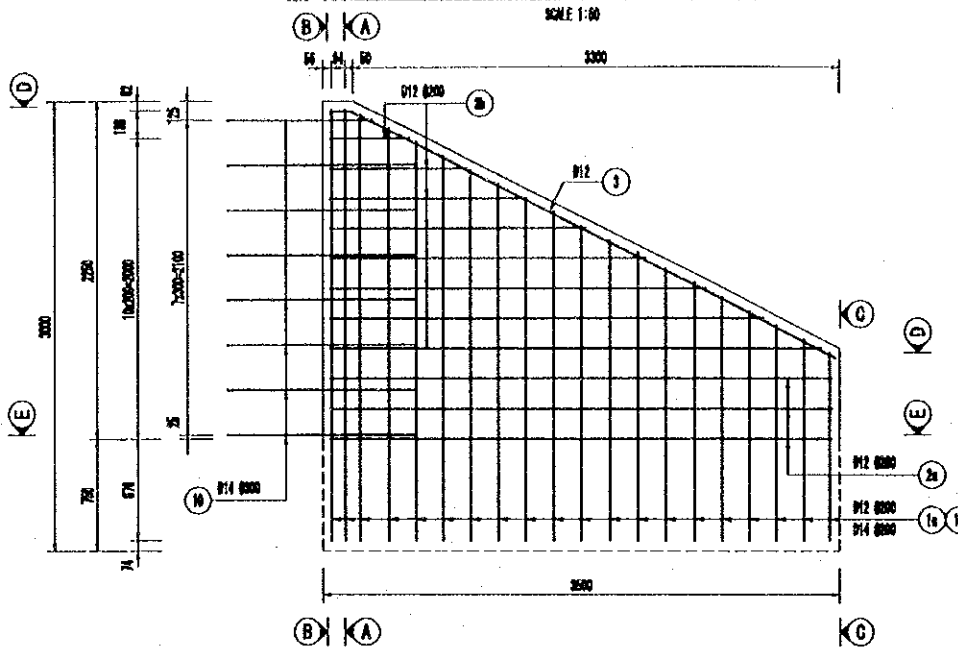
BOTTOM REINFORCEMENT

SCALE 1:50



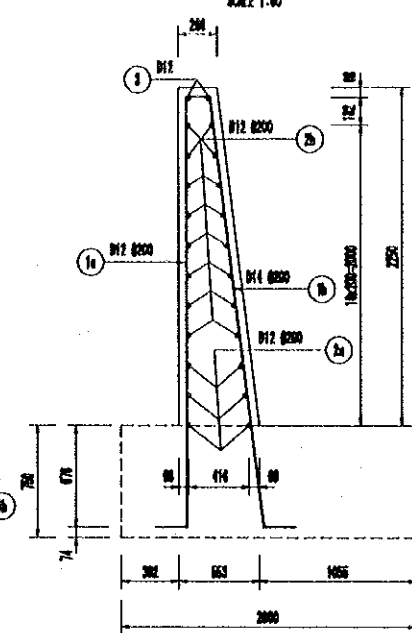
REINFORCEMENT OF WING WALL

SCALE 1:50



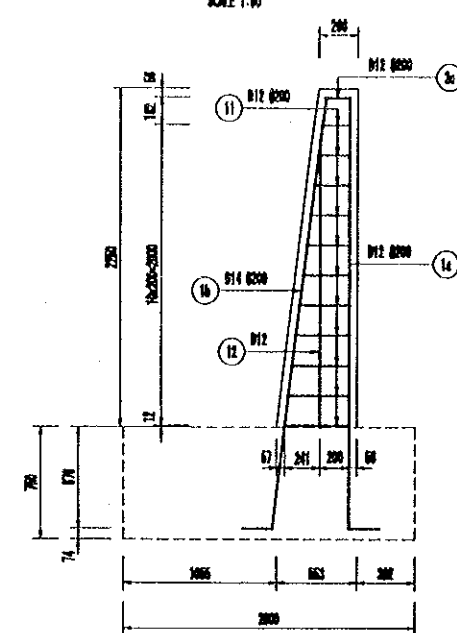
A - A

SCALE 1:50



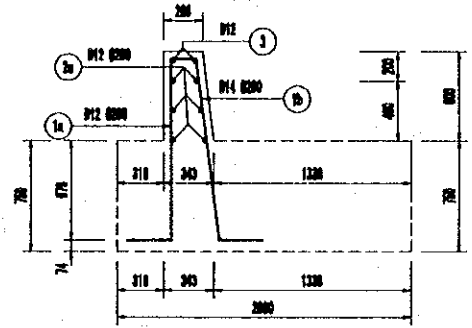
B - B

SCALE 1:50



C - C

SCALE 1:50

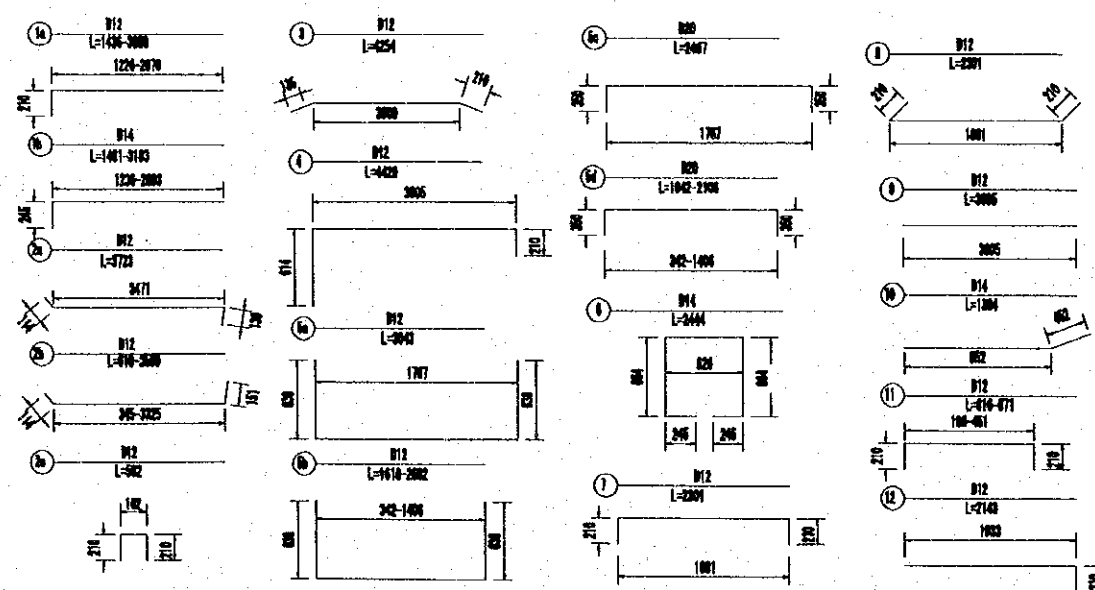


No	STATION
01	7+000
02	8+000
03	9+000
04	10+210
05	11+000
06	12+000
07	INTERCHANGE 2 - 000'Y' - 100+100

QUANTITIES TABLE

BAR MARK	UNIT LENGTH (m)	DIAMETER (mm)	NUMBER OF BAR	UNIT WEIGHT (kg/m)	TOTAL LENGTH (m)	TOTAL WEIGHT (kg)
1a	2250	12	20	0.888	45.2	40.1
2b	2130	14	20	1.208	60.2	56.8
2a	3723	12	6	0.888	22.3	18.8
2c	2100	12	16	0.888	32.6	28.8
2d	682	12	20	0.888	11.6	10.2
3	454	12	2	0.888	0.6	7.0
4	4420	12	20	0.888	68.4	70.6
5a	2042	12	16	0.888	45.6	48.6
5b	2100	12	6	0.888	12.0	11.6
5c	2007	20	16	2.466	37.6	61.3
5d	1674	20	6	2.466	9.4	23.3
6	2444	14	18	1.208	28.1	42.3
7	2201	12	4	0.888	0.2	0.2
8	2201	12	4	0.888	0.2	0.2
9	2005	12	4	0.888	14.4	12.8
10	1304	14	8	1.208	16.4	12.8
11	744	12	11	0.888	0.2	7.0
12	2143	12	1	0.888	2.1	2.0
REINFORCEMENT :				Ø14	202.2	kg
REINFORCEMENT :				14<Ø14>5	114.8	kg
TOTAL REINFORCEMENT :					317.0	kg

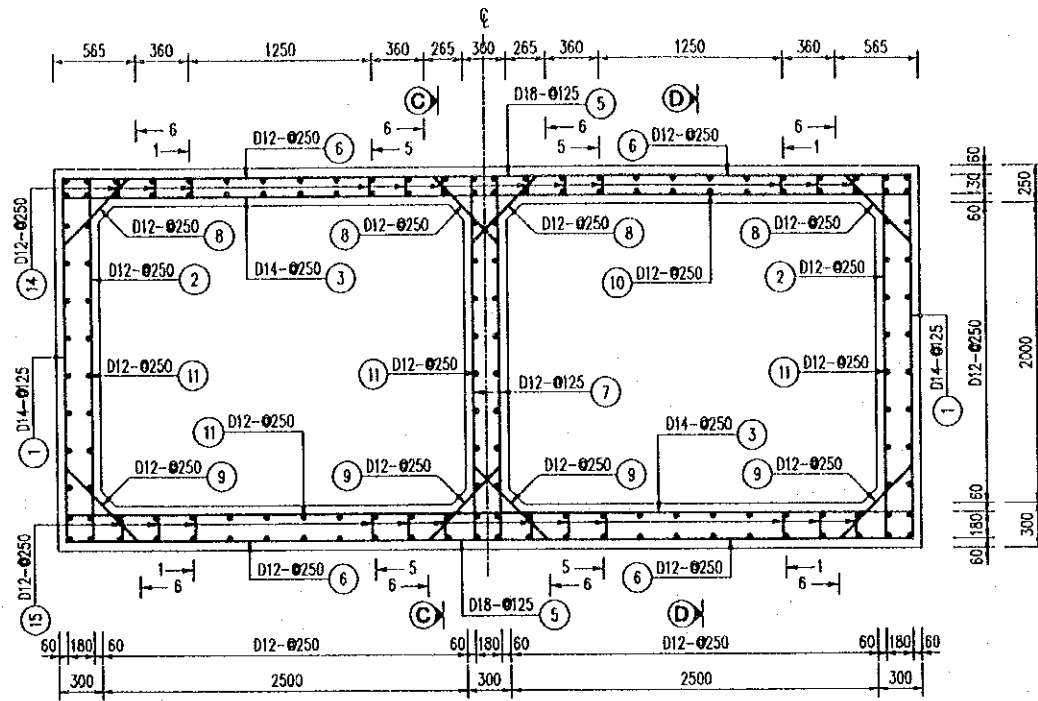
NOTES :
 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 2- THE QUANTITIES TABLE IS ONLY CALCULATED FOR ONE PIVOT WALL.
 3- THIS PIVOT WALL IS USED FOR BOX CULVERTS AT STATIONS IN THE ABOVE TABLE.



PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOEI CO.,LTD.	PREPARED BY NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	CHECKED BY NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	APPROVED BY NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	DRAWING TITLE REINFORCEMENT OF WING WALL STATION 7+950	DWG NO. P3/BC/0110
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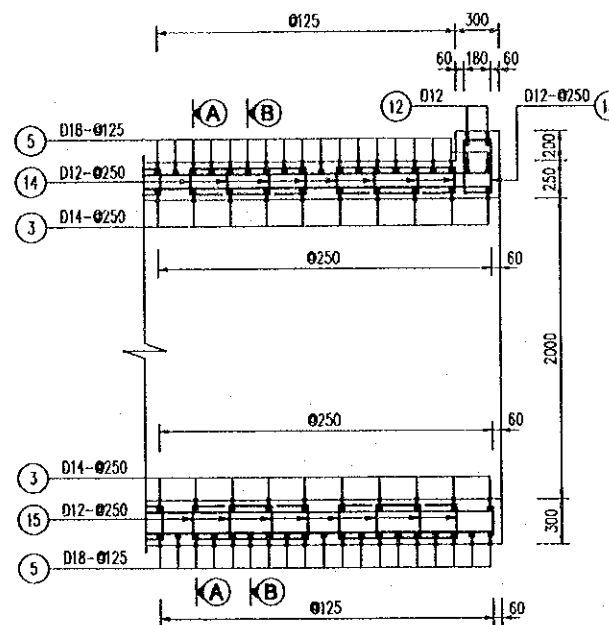
SECTION A - A

SCALE 1:50



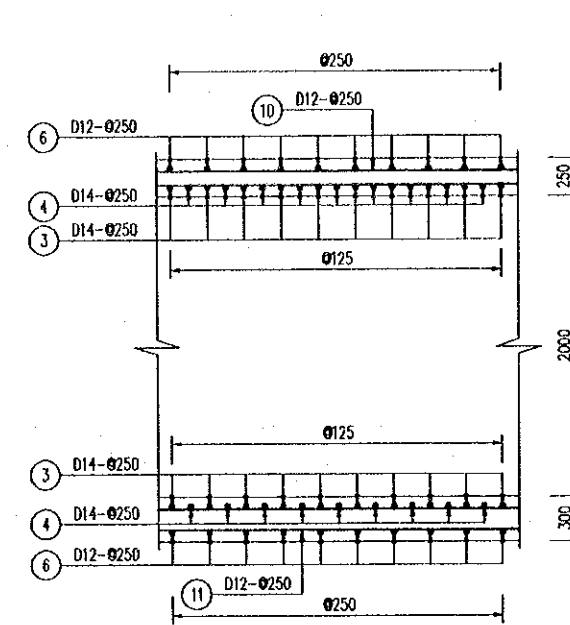
SECTION C - C

SCALE 1:50



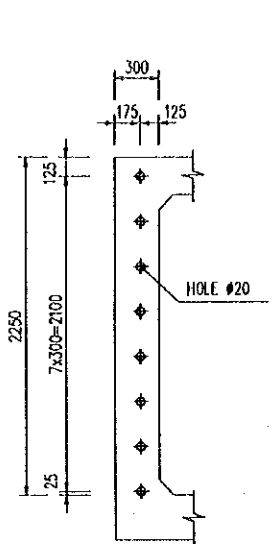
SECTION D - D

SCALE 1:50



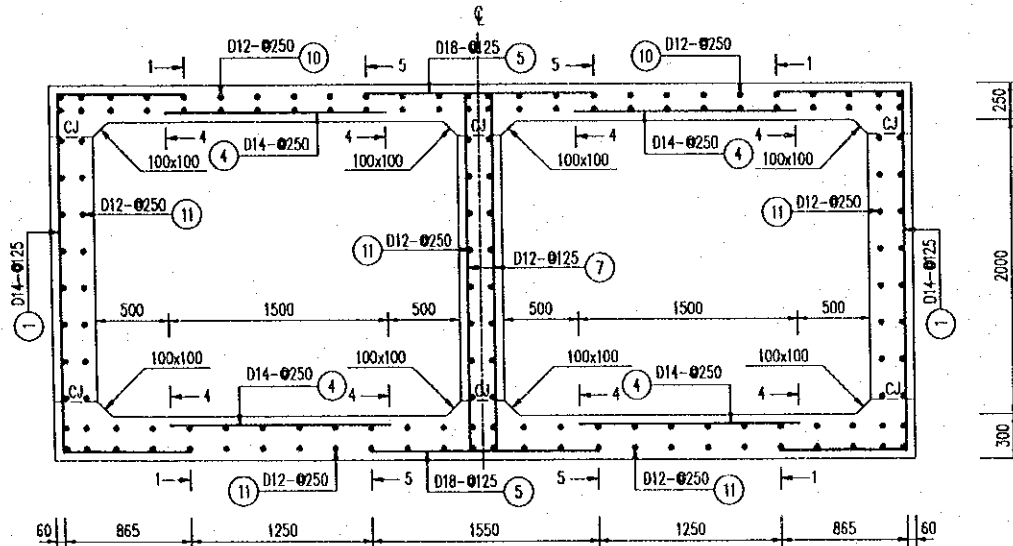
POSITION OF HOLE

(SCALE 1:50)



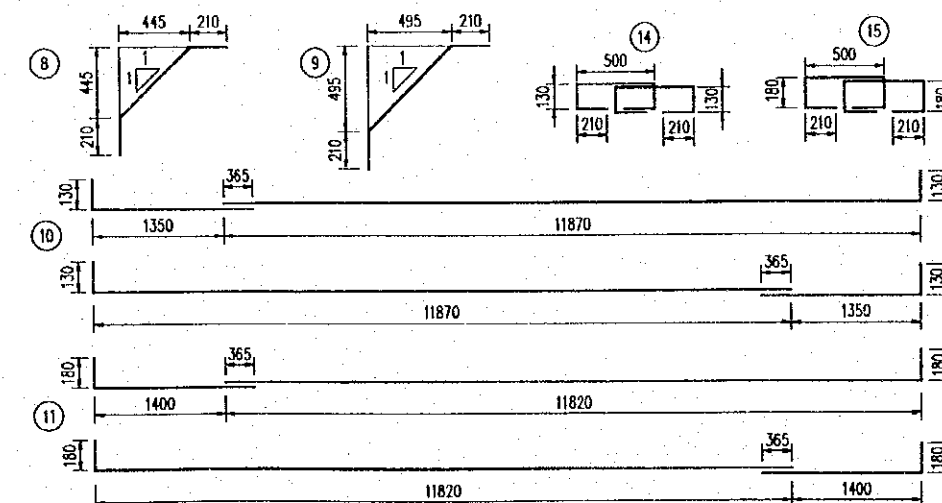
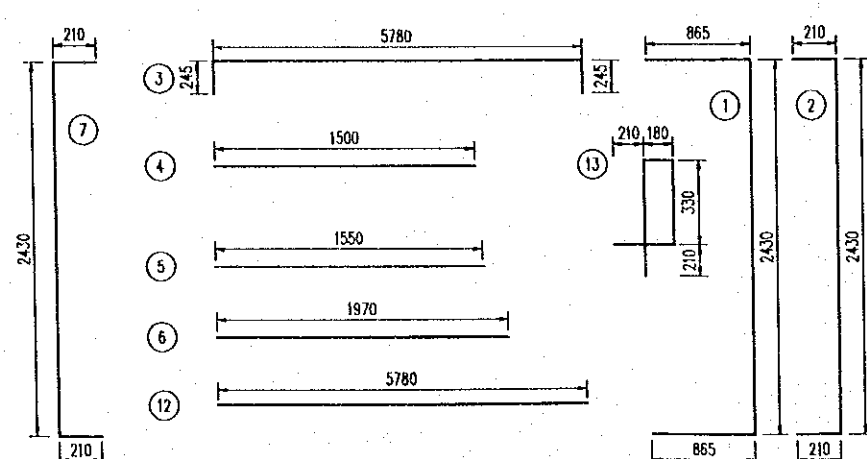
SECTION B - B

SCALE 1:50



QUANTITIES TABLE

SYMBOL OF BAR	UNIT LENGTH (mm)	SPACE (mm)	DIAMETER (mm)	NUMBER OF BAR	UNIT WEIGHT (kg/m)	TOTAL LENGTH (m)	TOTAL WEIGHT (kg)	
1	4160	125	14	214	1.208	890.24	1075.8	
2	2850	250	12	108	0.888	307.80	273.3	
3	6270	250	14	108	1.208	677.16	818.3	
4	1500	250	14	212	1.208	318.00	384.3	
5	1550	125	18	214	1.998	331.70	662.6	
6	1970	250	12	216	0.888	425.52	377.8	
7	2850	125	12	214	0.888	606.9	541.5	
8	1049	250	12	216	0.888	226.58	201.2	
9	1120	250	12	216	0.888	241.92	214.8	
10	13845	250	12	52	0.888	719.94	639.2	
11	13945	250	12	100	0.888	1394.50	1238.1	
12	5780	250	12	2	0.888	11.56	10.3	
13	1440	250	12	26	0.888	37.44	33.2	
14	1180	250	12	320	0.888	377.79	335.4	
15	1280	250	12	320	0.888	409.80	363.8	
TOTAL FOR 1 SEGMENT					CONCRETE :	68.19 m ³	REINFORCEMENT :	7169.4 kg
TOTAL FOR THE WHOLE OF CULVERT					CONCRETE :	136.38 m ³	REINFORCEMENT :	14338.8 kg



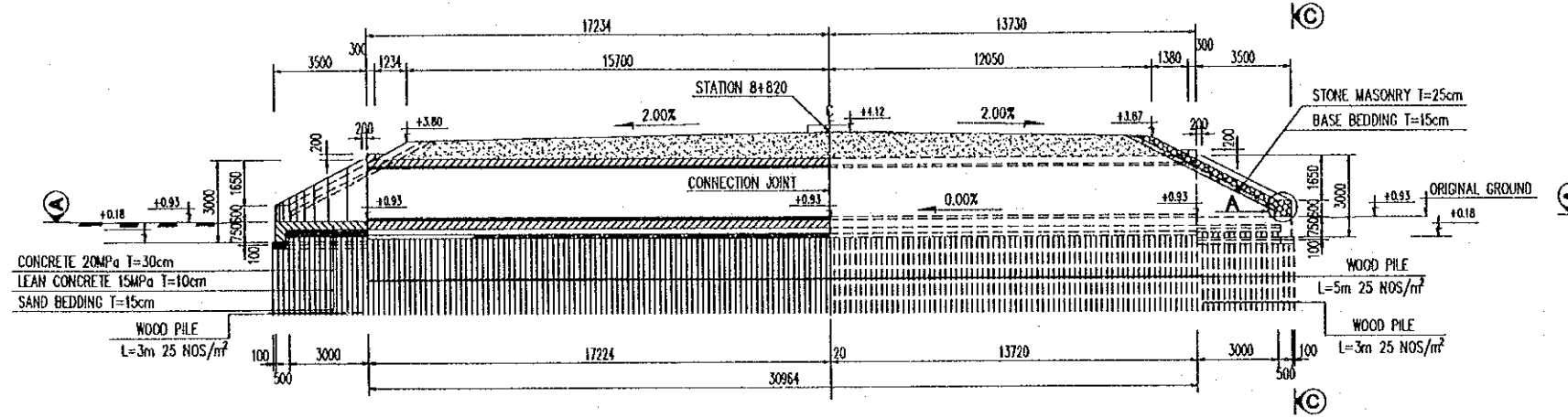
NOTES:

- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- 2- LENGTH OF SEGMENT SEE GENERAL VIEW DRAWING.

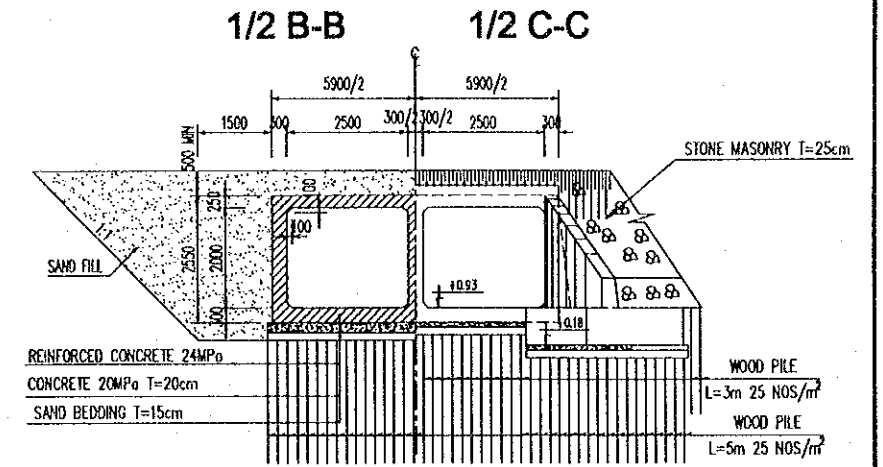
PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOBI CO.,LTD.	PREPARED BY NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	CHECKED BY K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 24/9/2000	APPROVED BY K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	DRAWING TITLE REINFORCEMENT OF CULVERT STATION 7+950	DWG NO. P3/BC/0120
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BOX CULVERT FOR DRAINAGE (STATION 8+820)

PROFILE
SCALE 1:250

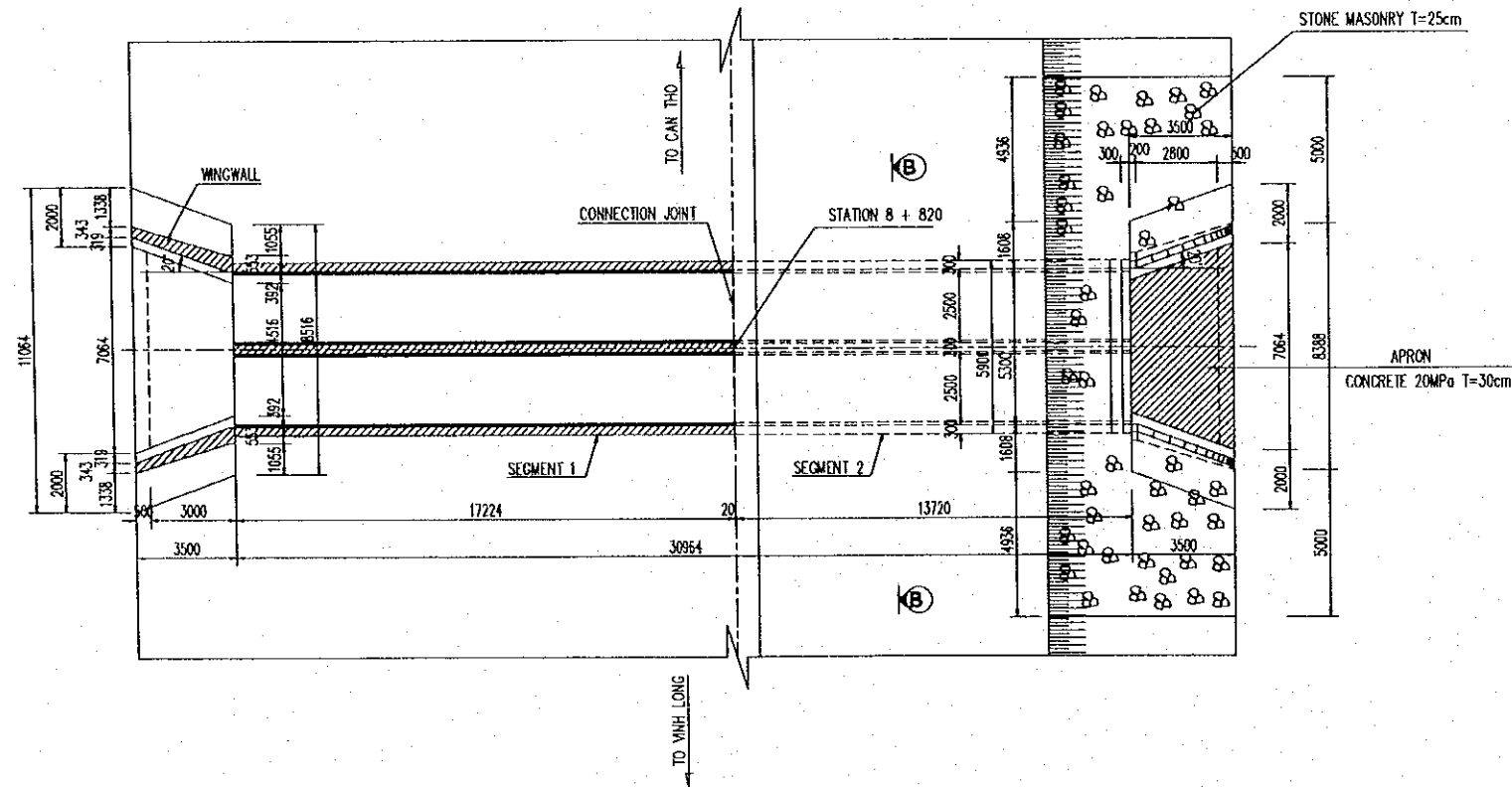


SECTION
SCALE 1:150



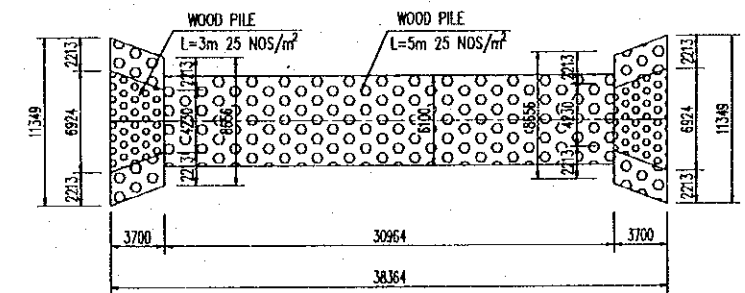
1/2 A-A
SCALE 1:250

1/2 PLAN
SCALE 1:250



PLAN LAYOUT OF WOOD PILE

SCALE 1:500

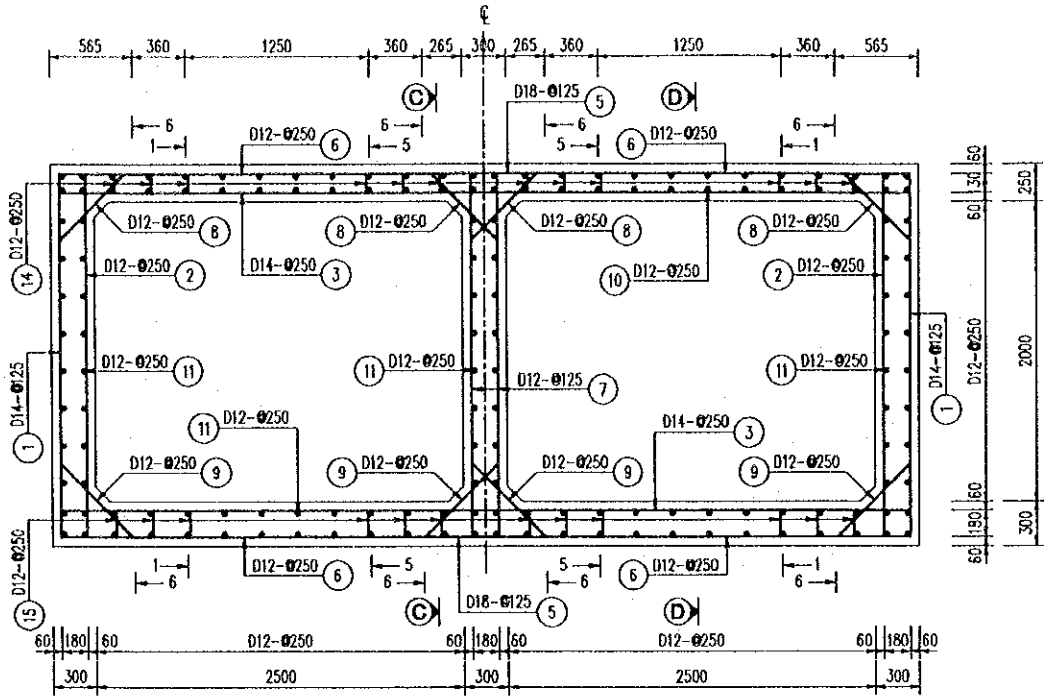


- NOTES :
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 - 2- ELEVATIONS ARE IN METERS IN REFERENCE TO THE NATIONAL DATUM LEVEL.
 - 3- WINGWALL IS SIMILAR TO BOX CULVERT AT STATION 7+950 - DRAWING No P3/BC/0100.
 - 4- DETAIL A IS SHOWN IN THE DOCUMENT OF APPROACH ROAD - DRAWING No P3/MS/0190.

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 KOBI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	GENERAL VIEW OF BOX CULVERT STATION 8 + 820	P3/BC/0130

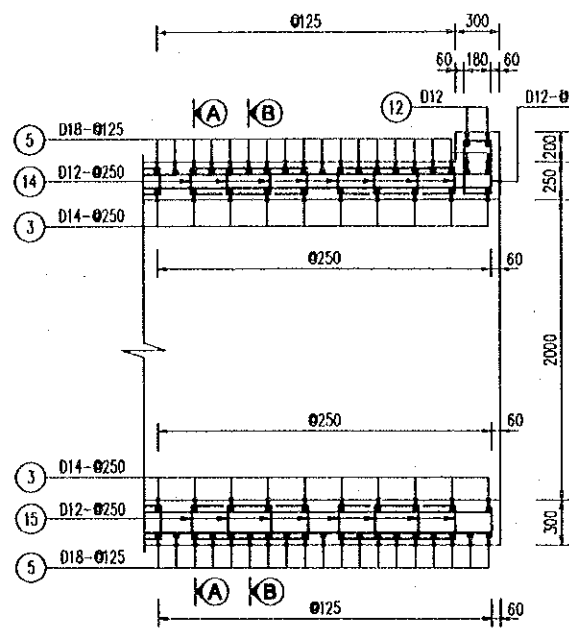
SECTION A - A

SCALE 1:50



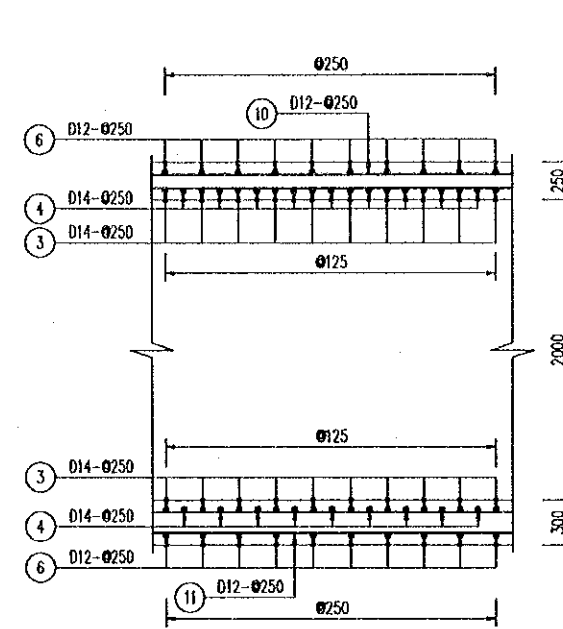
SECTION C - C

SCALE 1:50



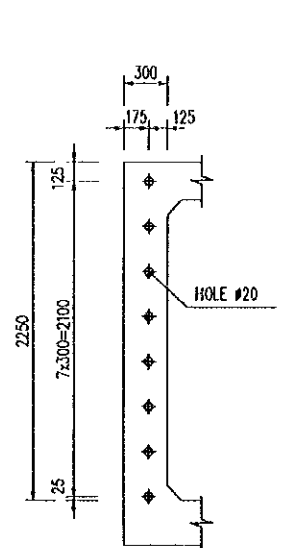
SECTION D - D

SCALE 1:50



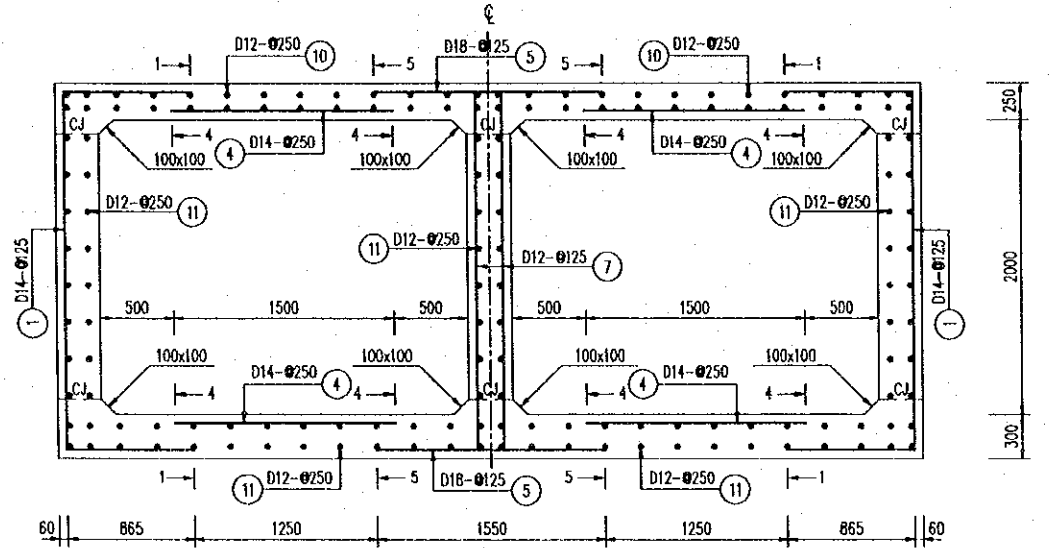
POSITION OF HOLE

(SCALE 1:50)



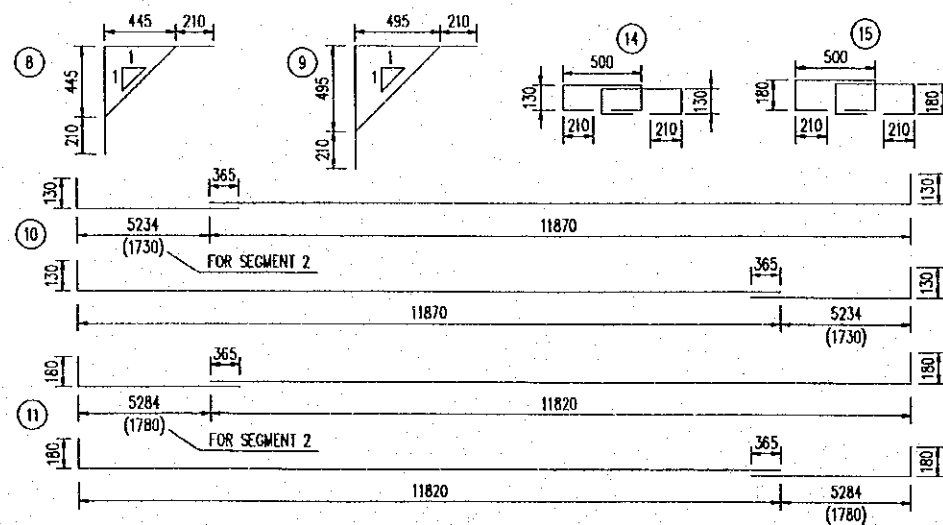
SECTION B - B

SCALE 1:50



QUANTITIES TABLE

SYMBOL OF BAR	UNIT LENGTH		SPACE (mm)	DIAMETER (mm)	NUMBER OF BAR		UNIT WEIGHT (kg/m)	TOTAL LENGTH		TOTAL WEIGHT		
	SEGMENT 1 (mm)	SEGMENT 2 (mm)			SEGMENT 1	SEGMENT 2		SEGMENT 1 (m)	SEGMENT 2 (m)	SEGMENT 1 (kg)	SEGMENT 2 (kg)	
1	4160	4160	125	14	274	218	1.208	1139.84	906.88	1377.4	1095.9	
2	2850	2850	250	12	138	110	0.888	393.30	313.50	349.2	278.3	
3	6270	6270	250	14	138	110	1.208	865.26	689.70	1045.6	833.4	
4	1500	1500	250	14	272	216	1.208	408.00	324.00	493.0	391.5	
5	1550	1550	125	18	274	218	1.998	424.70	337.90	848.4	675.0	
6	1970	1970	250	12	276	220	0.888	543.72	433.40	482.7	384.8	
7	2850	2850	125	12	274	218	0.888	780.9	621.3	693.3	551.6	
8	1049	1049	250	12	276	220	0.888	289.52	230.78	257.0	204.9	
9	1120	1120	250	12	276	220	0.888	309.12	246.40	274.4	218.8	
10	17729	14225	250	12	52	52	0.888	921.91	739.70	818.5	656.7	
11	17829	14325	250	12	100	100	0.888	1782.90	1432.50	1582.9	1271.8	
12	5780	5780	250	12	2	2	0.888	11.56	11.56	10.3	10.3	
13	1440	1440	250	12	26	26	0.888	37.44	37.44	33.2	33.2	
14	1180	1180	250	12	413	329	0.888	487.78	388.55	433.1	345.0	
15	1280	1280	250	12	413	329	0.888	529.12	421.48	469.8	374.2	
TOTAL FOR SEGMENT 1					CONCRETE : 87.94 m ³			REINFORCEMENT : 9168.8 kg				
TOTAL FOR SEGMENT 2					CONCRETE : 70.12 m ³			REINFORCEMENT : 7325.4 kg				
TOTAL FOR THE WHOLE OF CULVERT					CONCRETE : 158.06 m ³			REINFORCEMENT : 16494.1 kg				



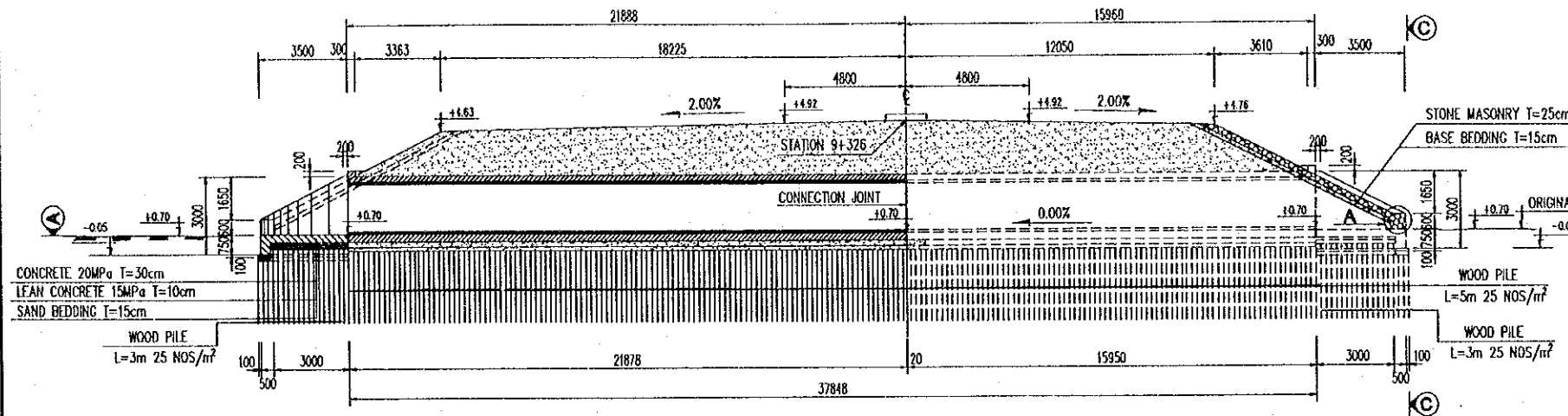
NOTES :

- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- 2- LENGTH OF SEGMENT SEE GENERAL VIEW DRAWING.

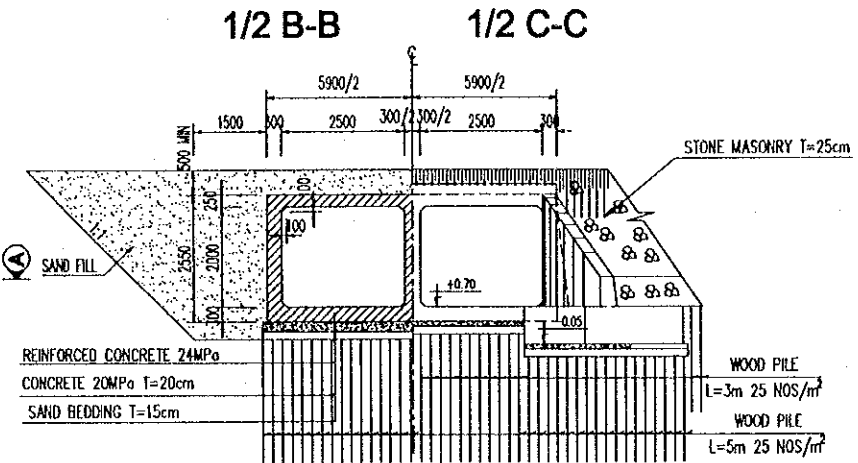
PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOBİ CO.,LTD.	PREPARED BY K. Nemoto	CHECKED BY K. Nakai	APPROVED BY K. Enomoto	DRAWING TITLE REINFORCEMENT OF CULVERT STATION 8+820	DWG NO. P3/BC/0140	
				NAME K. Nemoto	DATE 20/9/2000	NAME K. Nakai	DATE 20/9/2000	NAME K. Enomoto	DATE 5/10/2000

BOX CULVERT FOR DRAINAGE (STATION 9 + 326)

PROFILE
SCALE 1:250

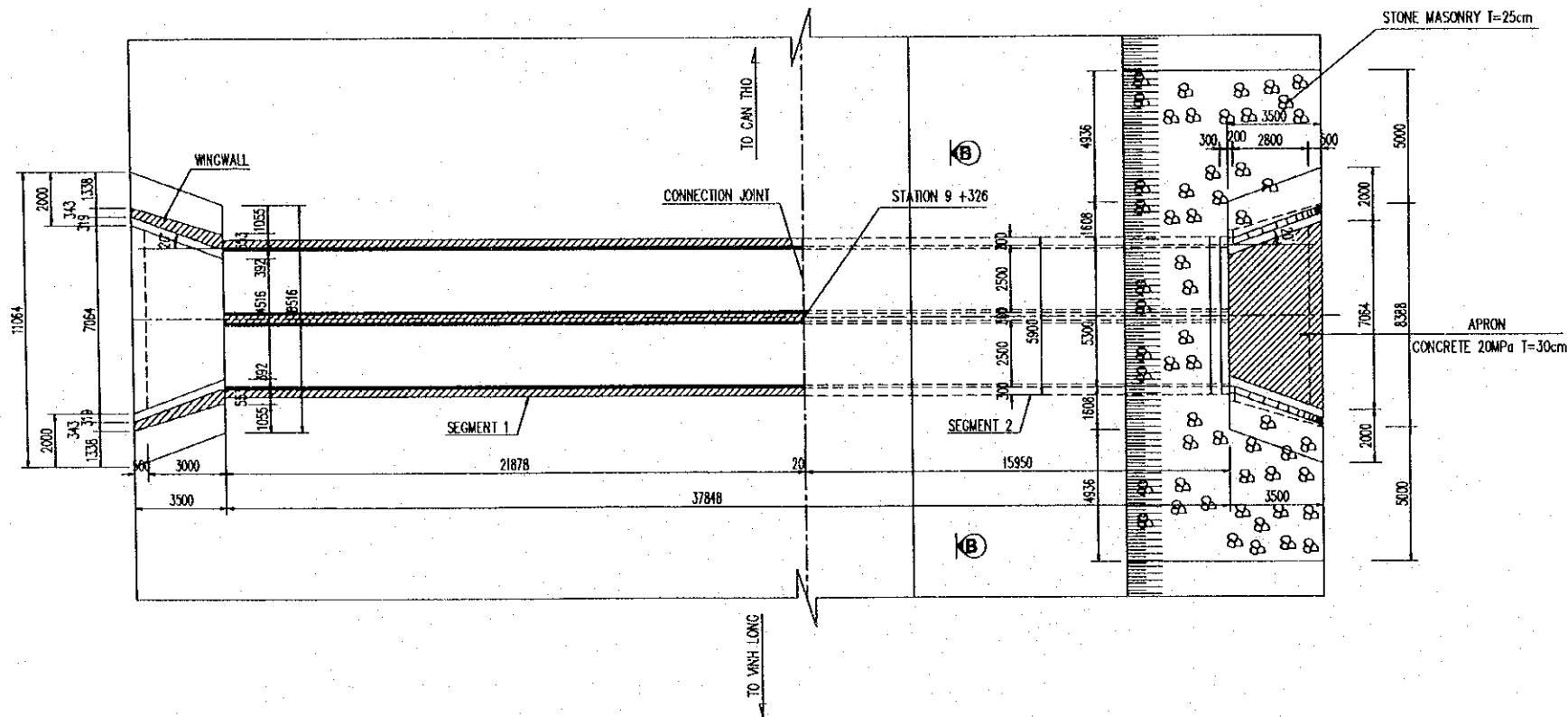


SECTION
SCALE 1:150



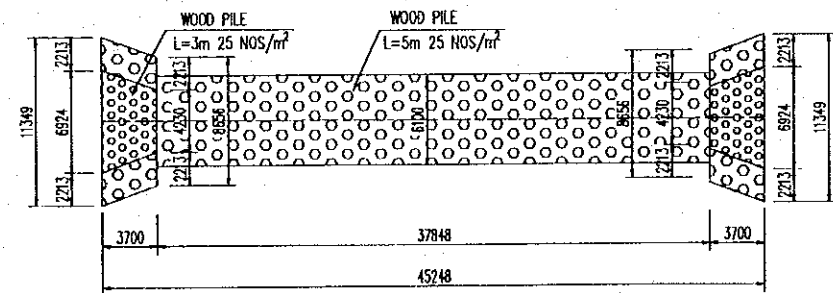
1/2 A-A
SCALE 1:250

1/2 PLAN
SCALE 1:250



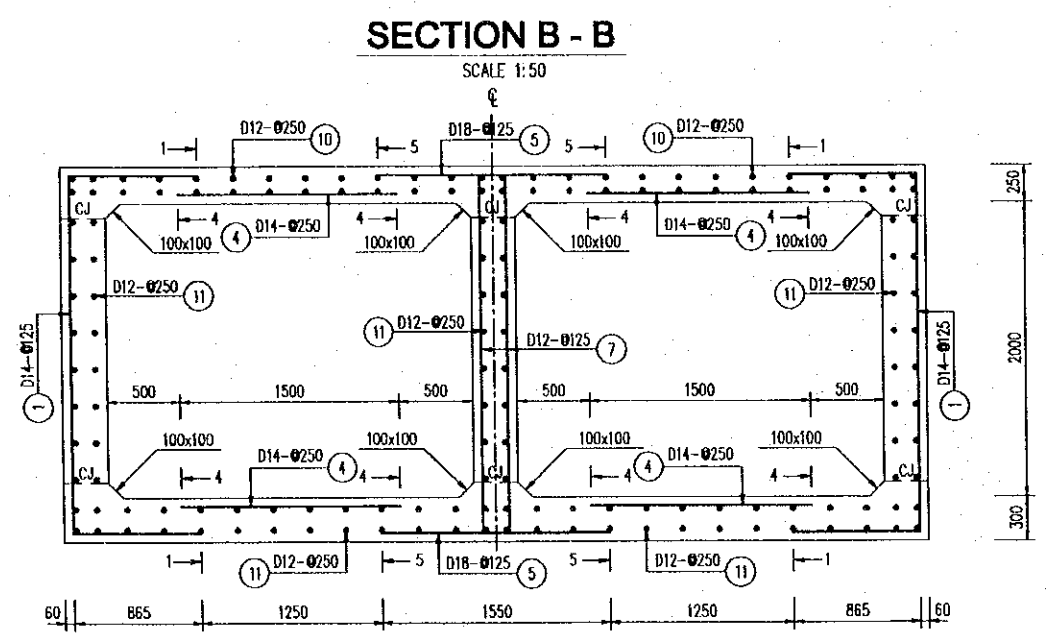
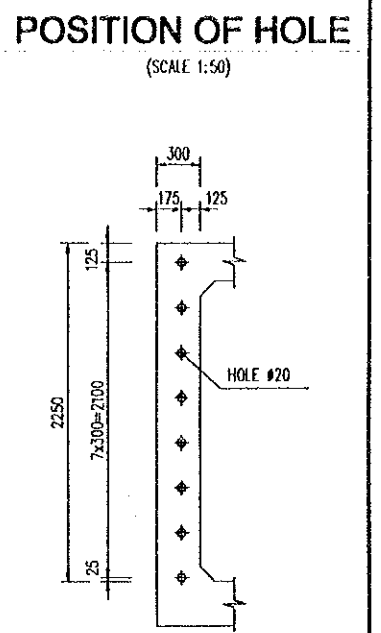
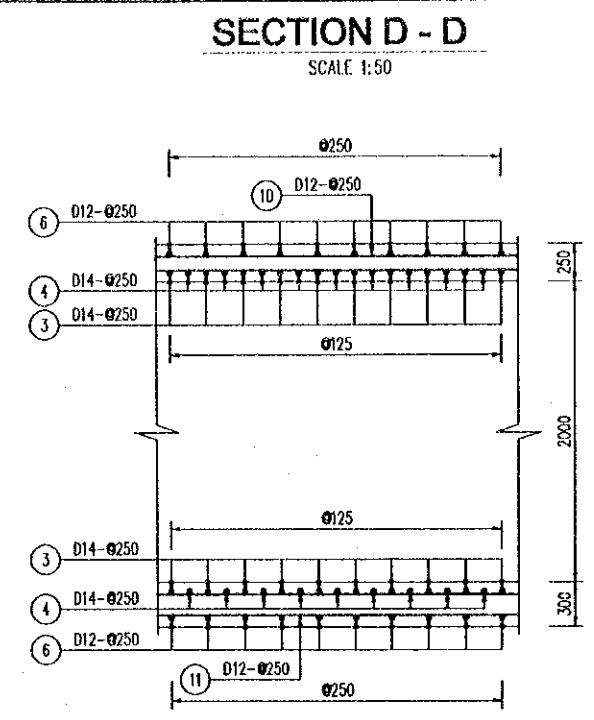
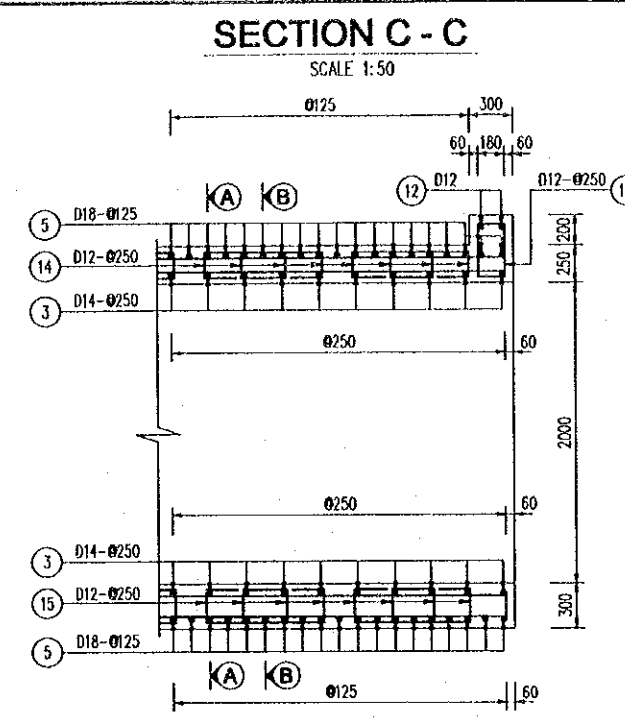
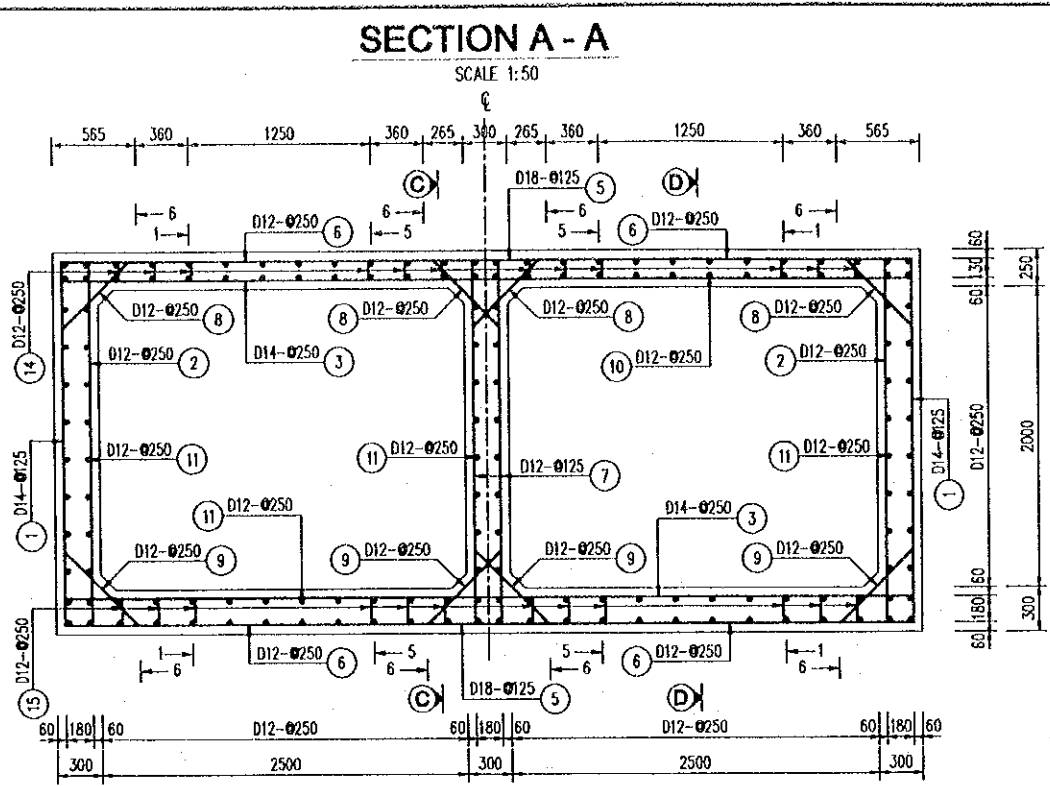
PLAN LAYOUT OF WOOD PILE

SCALE 1:500



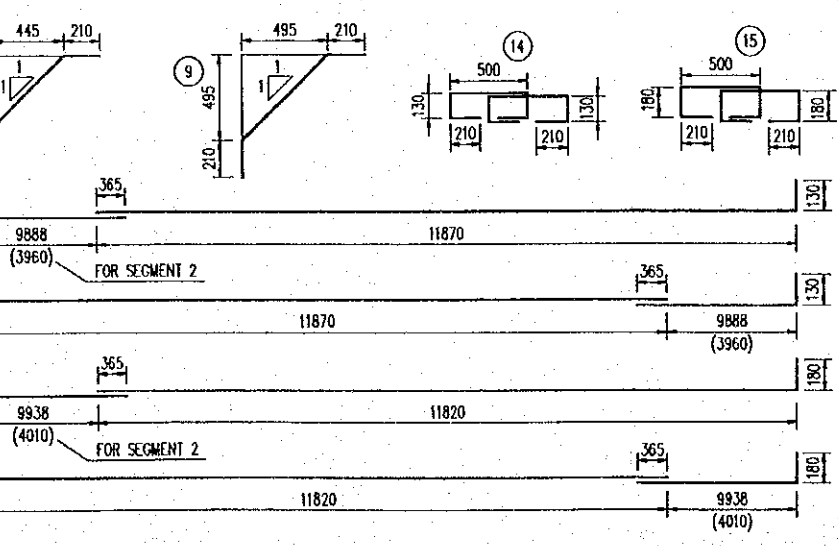
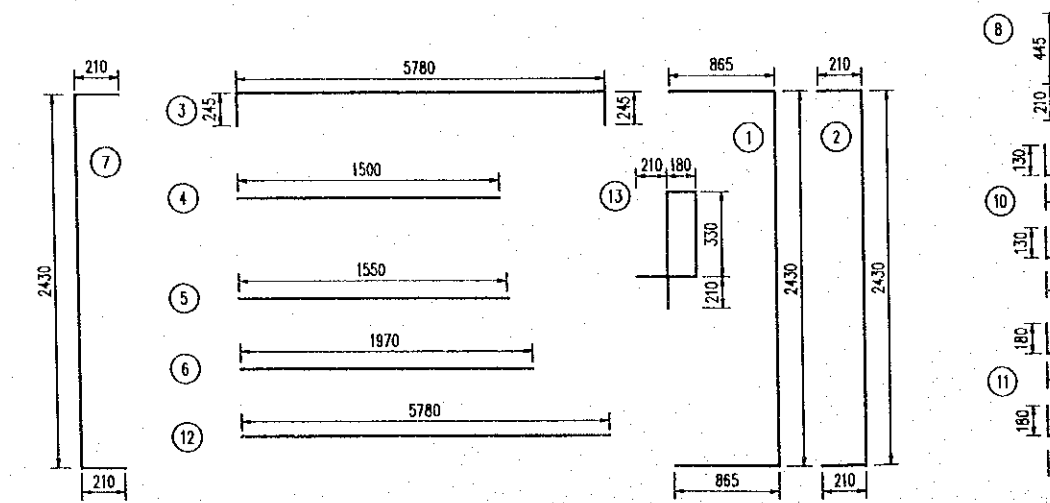
- NOTES :
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 - 2- ELEVATIONS ARE IN METERS IN REFERENCE TO THE NATIONAL DATUM LEVEL.
 - 3- WINGWALL IS SIMILAR TO BOX CULVERT AT STATION 7+950 - DRAWING No P3/BC/0100.
 - 4- DETAIL A IS SHOWN IN THE DOCUMENT OF APPROACH ROAD - DRAWING No P3/MS/0190.

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: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	GENERAL VIEW OF BOX CULVERT STATION 9 + 326	P3/BC/0150



QUANTITIES TABLE

SYMBOL OF BAR	UNIT LENGTH		SPACE (mm)	DIAMETER (mm)	NUMBER OF BAR		UNIT WEIGHT (kg/m)	TOTAL LENGTH		TOTAL WEIGHT		
	SEGMENT 1 (mm)	SEGMENT 2 (mm)			SEGMENT 1	SEGMENT 2		SEGMENT 1 (m)	SEGMENT 2 (m)	SEGMENT 1 (kg)	SEGMENT 2 (kg)	
1	4160	4160	125	14	350	254	1.208	1456.00	1056.64	1759.4	1276.9	
2	2850	2850	250	12	176	128	0.888	501.60	364.80	445.3	323.9	
3	6270	6270	250	14	176	128	1.208	1103.52	802.56	1333.5	969.8	
4	1500	1500	250	14	348	252	1.208	522.00	378.00	630.8	456.8	
5	1550	1550	125	18	350	254	1.998	542.50	393.70	1083.7	786.4	
6	1970	1970	250	12	352	256	0.888	693.44	504.32	615.6	447.7	
7	2850	2850	125	12	350	254	0.888	997.50	723.90	885.6	642.7	
8	1049	1049	250	12	352	256	0.888	369.25	268.54	327.8	238.4	
9	1120	1120	250	12	352	256	0.888	394.24	286.72	350.0	254.6	
10	22383	16455	250	12	52	52	0.888	1163.92	855.66	1033.3	759.7	
11	22483	16555	250	12	100	100	0.888	2248.30	1655.50	1996.1	1469.8	
12	5780	5780	250	12	2	2	0.888	11.56	11.56	10.3	10.3	
13	1440	1440	250	12	26	26	0.888	37.44	37.44	33.2	33.2	
14	1180	1180	250	12	525	383	0.888	619.58	451.70	550.1	401.0	
15	1280	1280	250	12	525	383	0.888	672.09	489.98	596.7	435.0	
TOTAL FOR SEGMENT 1					CONCRETE : 111.60 m³			REINFORCEMENT : 11651.5 kg				
TOTAL FOR SEGMENT 2					CONCRETE : 81.46 m³			REINFORCEMENT : 8506.2 kg				
TOTAL FOR THE WHOLE OF CULVERT					CONCRETE : 193.06 m³			REINFORCEMENT : 20157.7 kg				



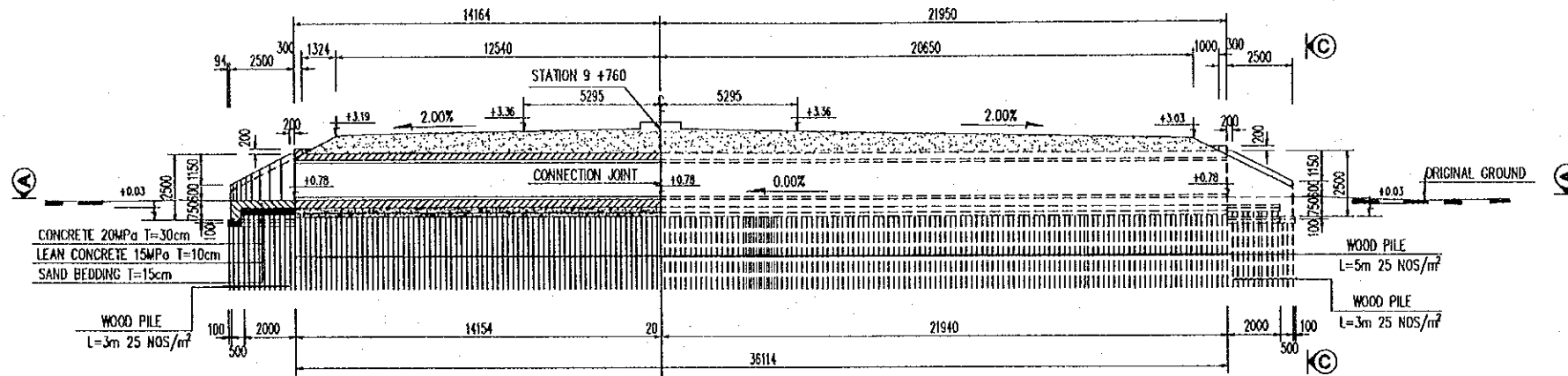
NOTES:

- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- 2- LENGTH OF SEGMENT SEE GENERAL VIEW DRAWING.

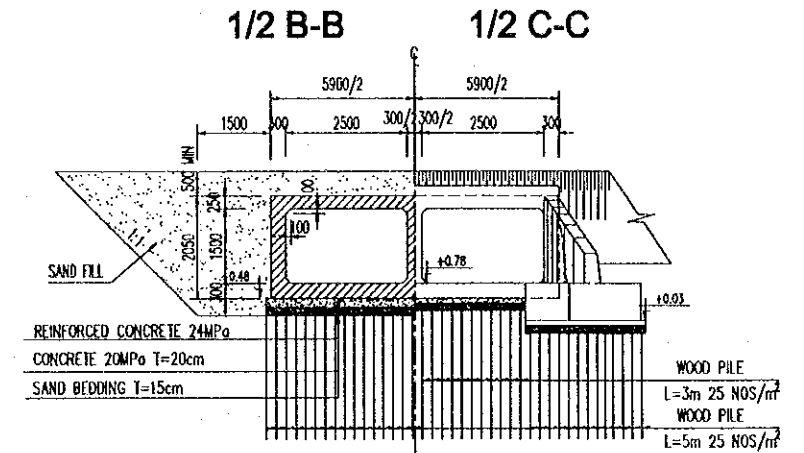
PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOEI CO.,LTD.	PREPARED BY NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	CHECKED BY NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	APPROVED BY NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	DRAWING TITLE REINFORCEMENT OF CULVERT STATION 9+326	DWG NO. P3/BC/0160
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BOX CULVERT DRAINAGE (STATION 9+760)

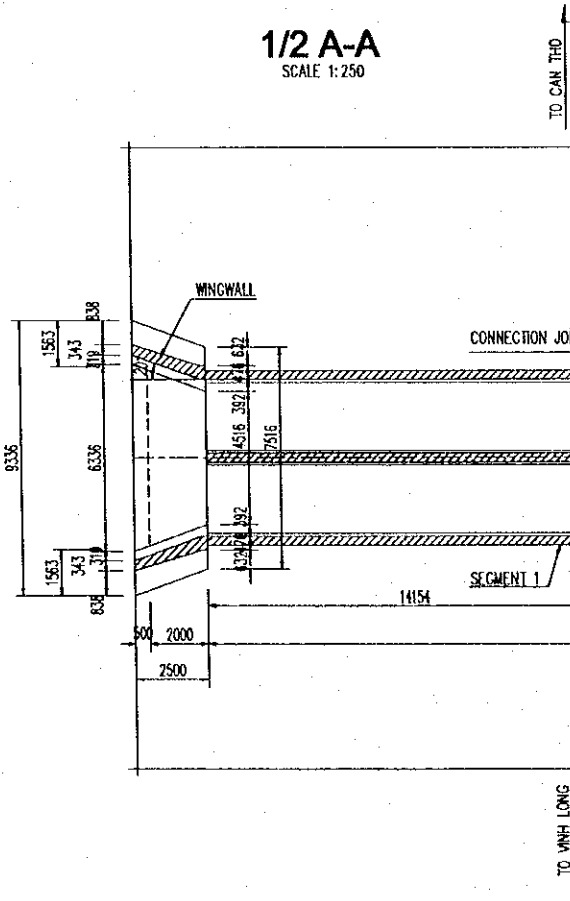
PROFILE
SCALE 1:250



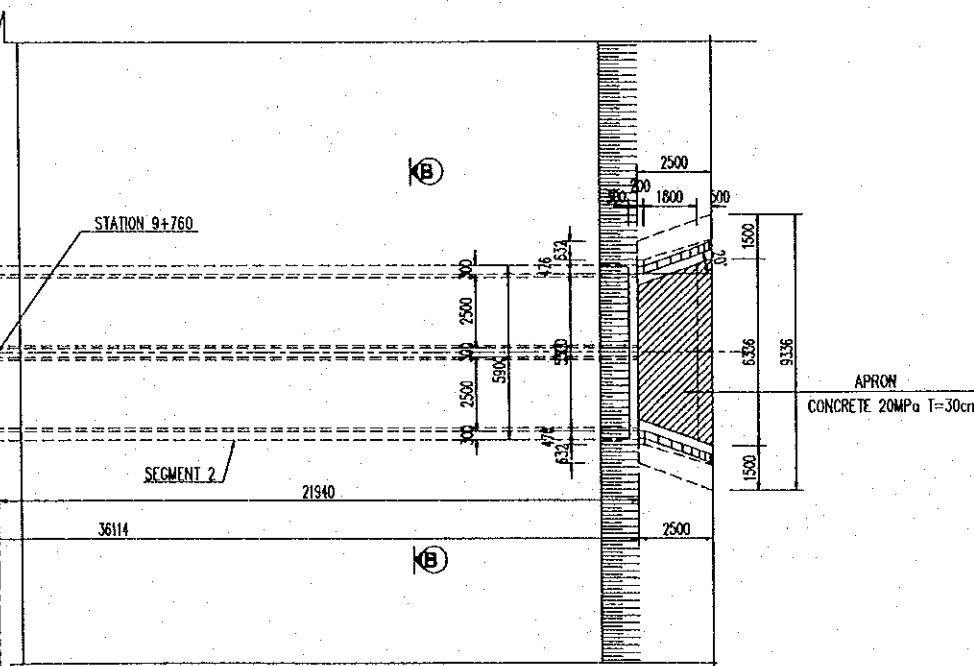
SECTION
SCALE 1:150



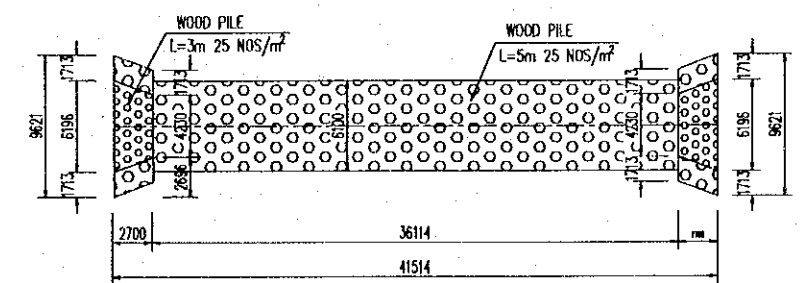
1/2 A-A
SCALE 1:250



1/2 PLAN
SCALE 1:250



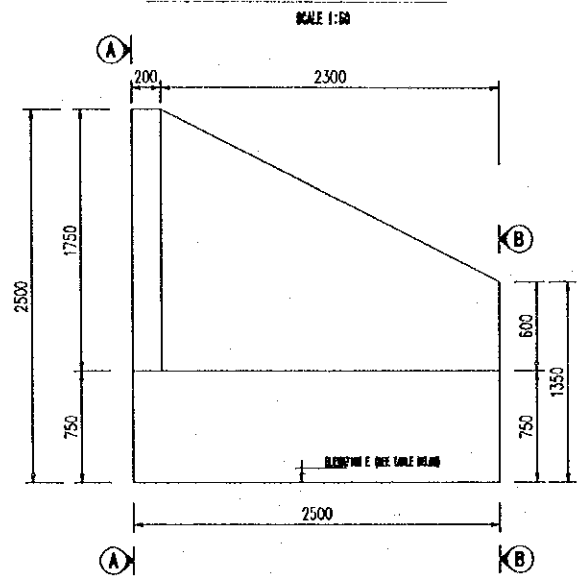
PLAN LAYOUT OF WOOD PILE
SCALE 1:500



NOTES:
 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 2- ELEVATIONS ARE IN METERS IN REFERENCE TO THE NATIONAL DATUM LEVEL.
 3- DETAIL A IS SHOWN IN THE DOCUMENT OF APPROACH ROAD - DRAWING No P3/MS/0190.

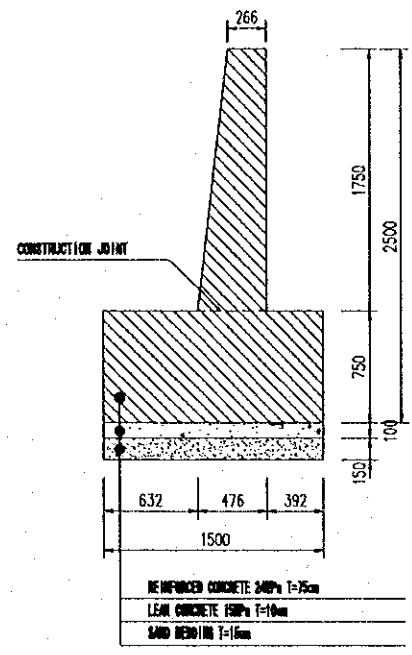
PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	(NK) NIPPON KOBİ CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	GENERAL VIEW OF BOX CULVERT STATION 9 + 760	P3/BC/0170

WING WALL DETAIL



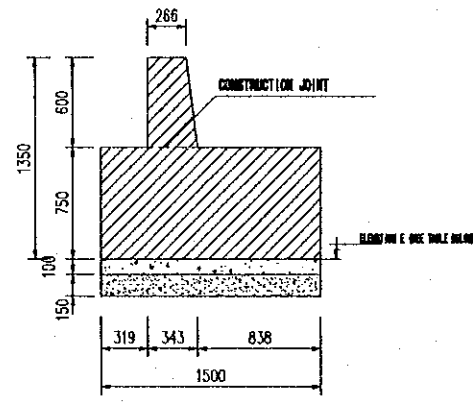
A - A

SCALE 1:50



B - B

SCALE 1:50



PLAN

SCALE 1:50

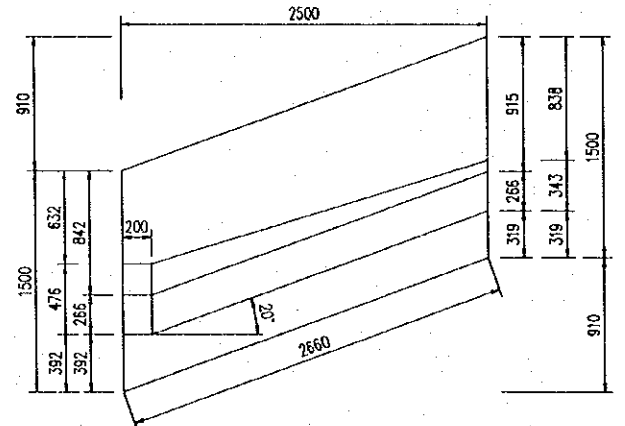


TABLE OF ELEVATION E

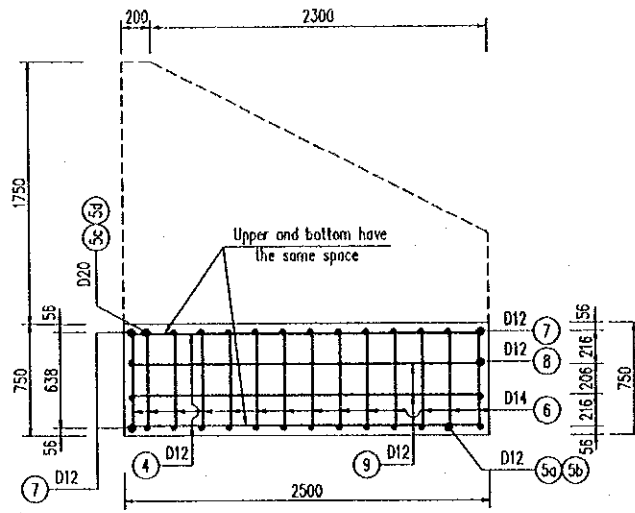
No	STATION	ELEVATION
01	9+700	0.03
02	10+000	0.01
03	10+900	-0.68
04	11+451	-0.28
05	13+600	-0.36
06	14+450	-0.35
07	14+825	-0.40
08	14+800	-0.58
09	INTERCHANGE 3 - RAMP "A" - Km 0+154	0.09
10	INTERCHANGE 3 - RAMP "B" - Km 0+200.5	-0.31
11	INTERSECTION 4 - RAMP "B" - Km 0+223	-0.48

NOTES:
 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 2- THIS WALL WILL BE USED FOR CULVERTS AT STATIONS IN THE ABOVE TABLE.

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: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	GENERAL VIEW OF WINGWALL STATION 9+760	P3/BC/0180

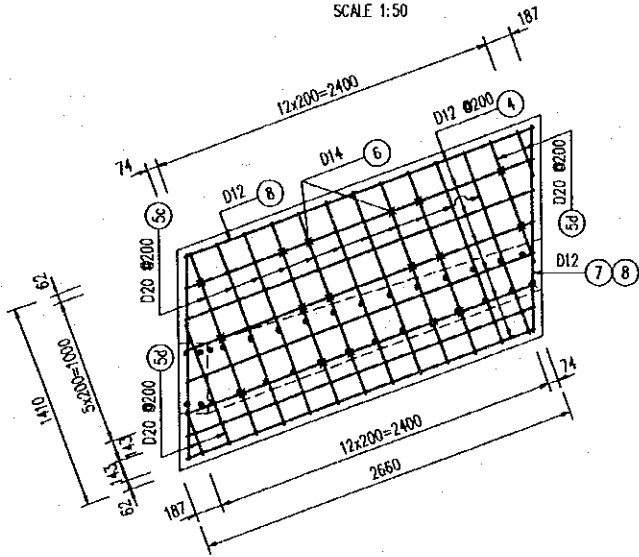
REINFORCEMENT OF FOOTING

SCALE 1:50



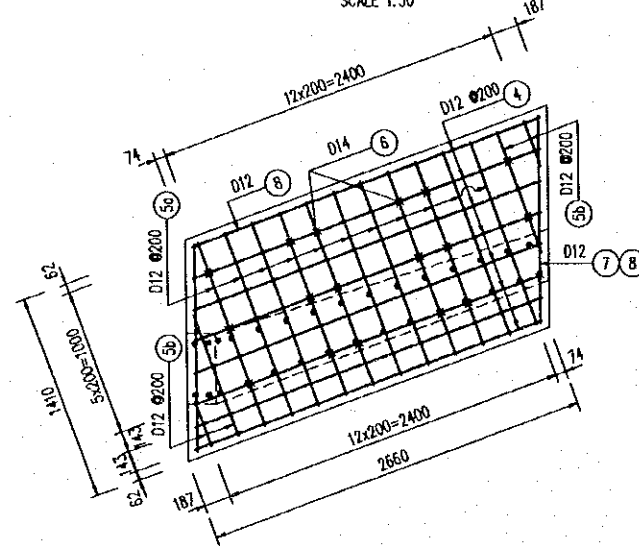
TOP REINFORCEMENT

SCALE 1:50



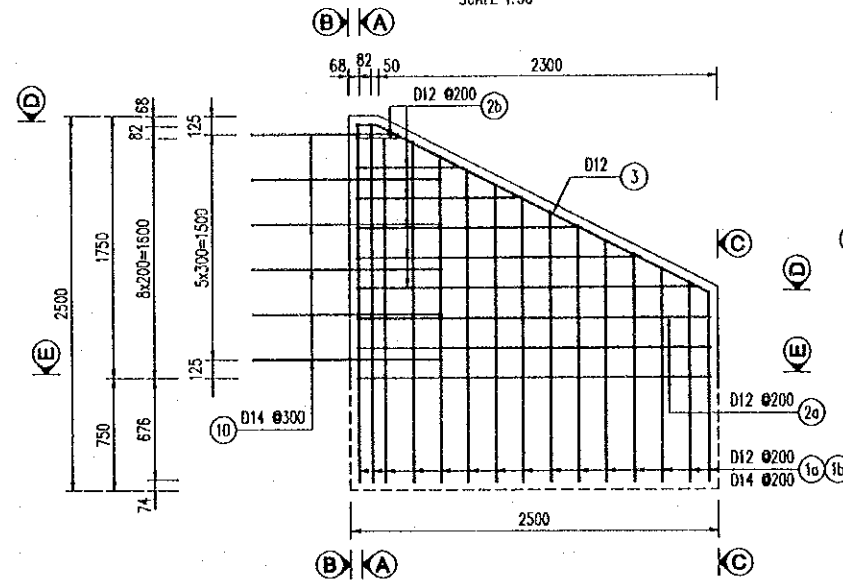
BOTTOM REINFORCEMENT

SCALE 1:50



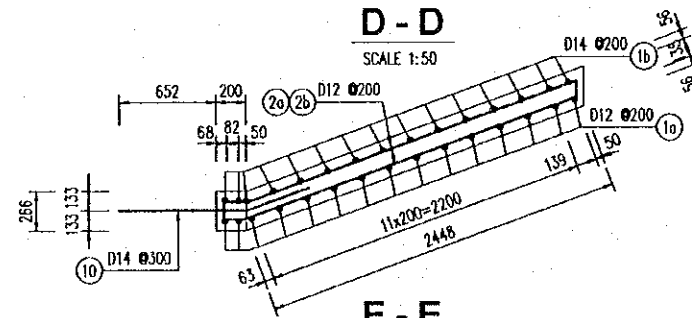
REINFORCEMENT OF WING WALL

SCALE 1:50



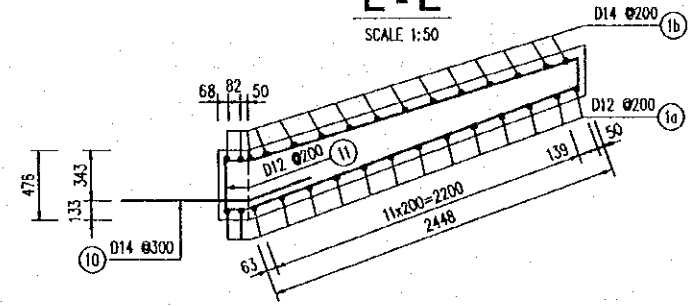
D - D

SCALE 1:50



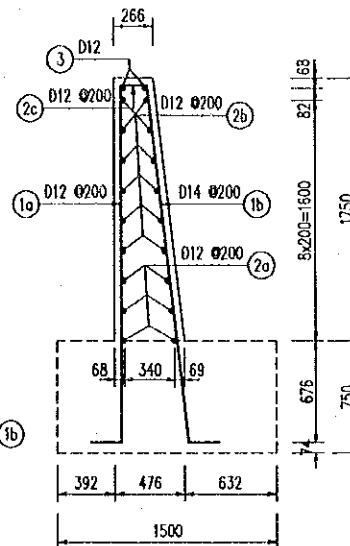
E - E

SCALE 1:50



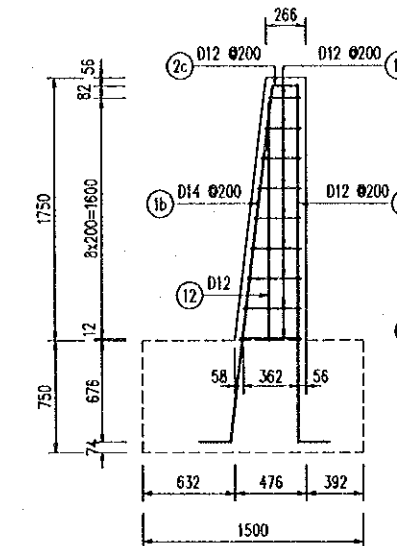
A - A

SCALE 1:50



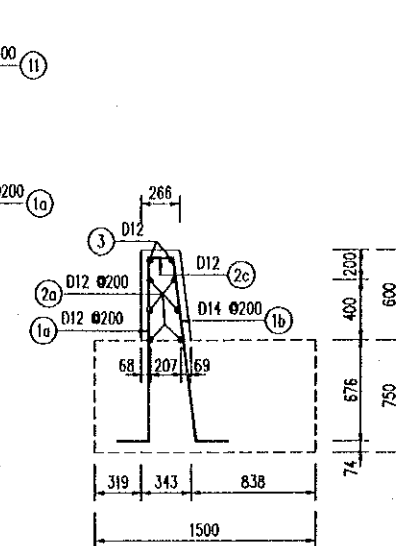
B - B

SCALE 1:50



C - C

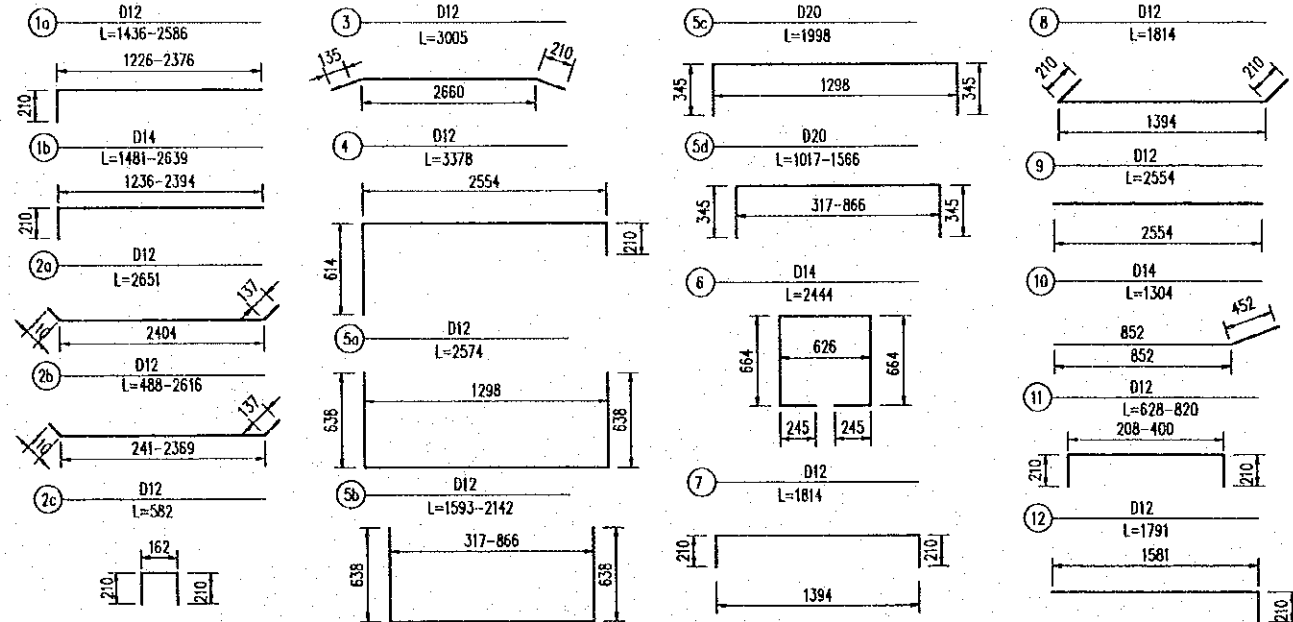
SCALE 1:50



QUANTITIES TABLE

No	STATION
01	9+760
02	10+690
03	10+950
04	11+451
05	13+600
06	14+450
07	14+625
08	14+890
09	INTERCHANGE 3 RAM "A" - Km 0+154
10	INTERCHANGE 3 RAM "B" - Km 0+286.5
11	INTERCHANGE 4 RAM "B" - Km 0+223

BAR MARK	UNIT LENGTH (mm)	DIAMETER (mm)	NUMBER OF BAR	UNIT WEIGHT (kg/M)	TOTAL LENGTH (m)	TOTAL WEIGHT (kg)
1a	2011	12	15	0.888	30.2	26.8
1b	2060	14	15	1.208	30.9	37.3
2a	2651	12	6	0.888	15.9	14.1
2b	1552	12	12	0.888	18.6	16.5
2c	582	12	15	0.888	8.7	7.8
3	3005	12	2	0.888	6.0	5.3
4	3378	12	16	0.888	54.0	48.0
5a	2574	12	11	0.888	28.3	25.1
5b	1868	12	4	0.888	7.5	6.6
5c	1998	20	11	2.466	22.0	54.2
5d	1292	20	4	2.466	5.2	12.7
6	2444	14	8	1.208	19.6	23.6
7	1814	12	4	0.888	7.3	6.4
8	1814	12	4	0.888	7.3	6.4
9	2554	12	4	0.888	10.2	9.1
10	1304	14	5	1.208	6.5	7.9
11	724	12	9	0.888	6.5	5.8
12	1791	12	1	0.888	1.8	1.6
CONCRETE :					3.92 m ³	
REINFORCEMENT :					D<14	248.5 kg
REINFORCEMENT :					14< D<=25	66.9 kg
TOTAL REINFORCEMENT :						315.4 kg



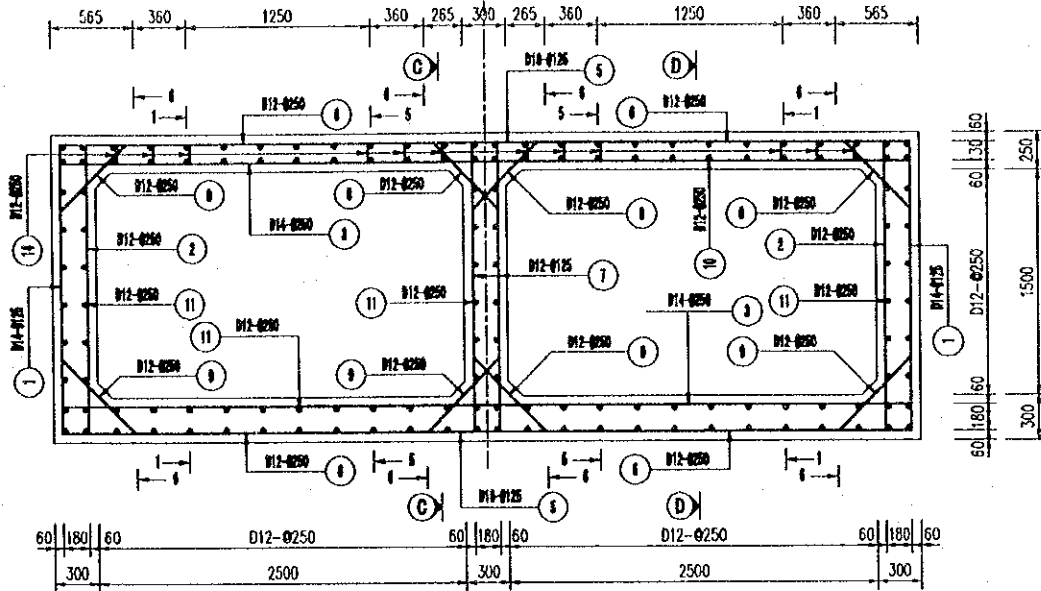
NOTES :

- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- 2- THE QUANTITIES TABLE IS ONLY CALCULATED FOR ONE WING WALL.
- 3- THIS WING WALL IS USED FOR BOX CULVERTS AT STATIONS IN THE LEFT TABLE.

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 KOBEL CO.,LTD.	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE REINFORCEMENT OF WINGWALL STATION 9+760	DWG NO. P3/BC/0190
				NAME K. Nemoto	K. Nakai	K. Enomoto		
				DATE 20/9/2000	24/9/2000	5/10/2000		

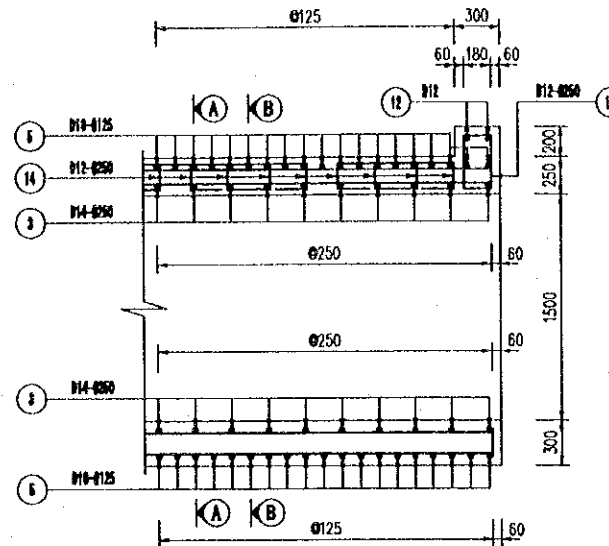
SECTION A - A

SCALE 1:50



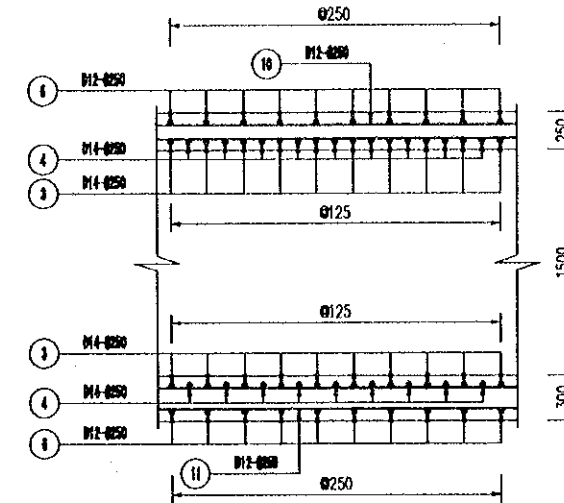
SECTION C - C

SCALE 1:50



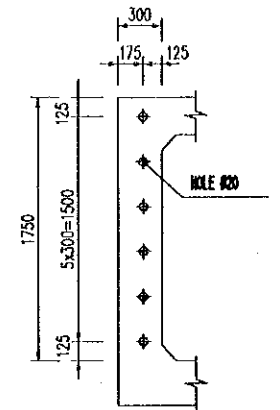
SECTION D - D

SCALE 1:50



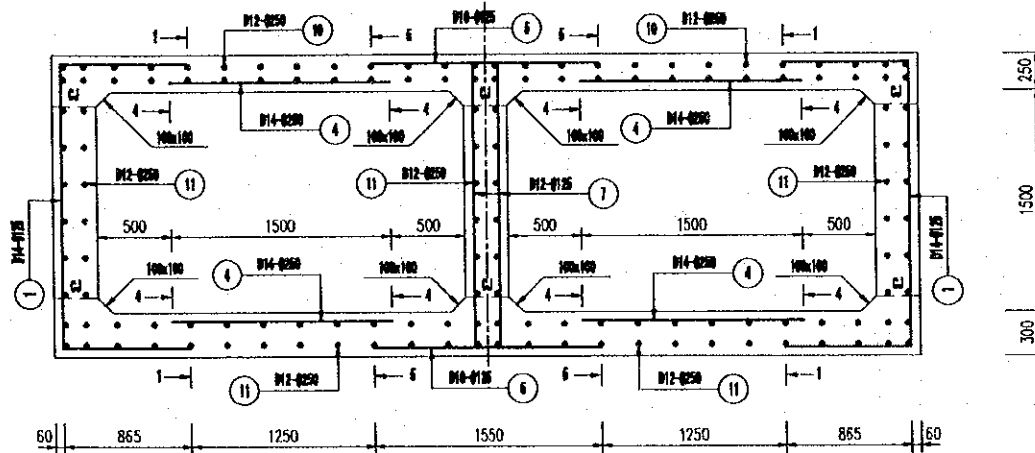
POSITION OF HOLE

SCALE 1:50



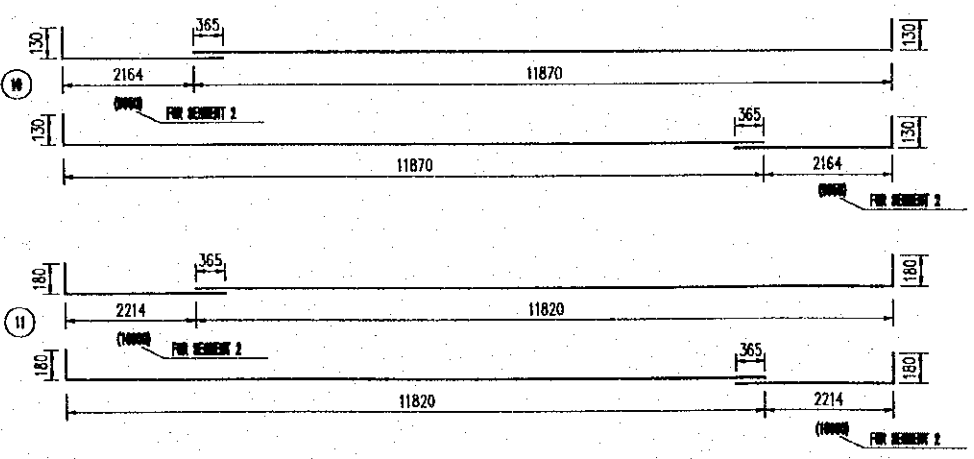
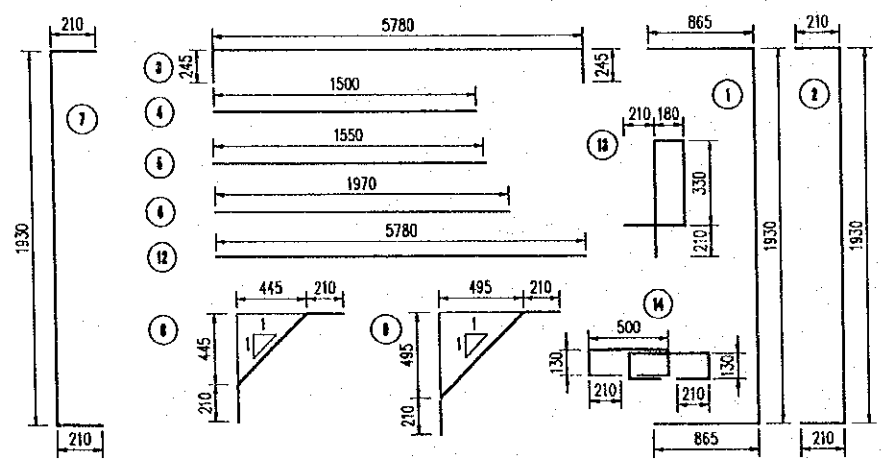
SECTION B - B

SCALE 1:50



QUANTITIES TABLE

SYMBOL OF BAR	UNIT LENGTH		SPACE	DIAMETER	NUMBER OF BAR		UNIT WEIGHT	TOTAL LENGTH		TOTAL WEIGHT	
	SEMENT 1	SEMENT 2			SEMENT 1	SEMENT 2		SEMENT 1	SEMENT 2	SEMENT 1	SEMENT 2
	(m)	(m)	(m)	(m)			(kg/m)	(m)	(m)	(kg)	(kg)
1	2000	2000	125	14	228	260	1.200	827.2	1308.0	900.0	1548.0
2	2250	2250	250	12	114	170	0.800	267.0	413.0	237.0	367.2
3	8270	8270	250	14	114	170	1.200	714.0	1100.0	600.0	1320.0
4	1800	1800	250	14	224	240	1.200	230.0	822.0	400.0	620.0
5	1900	1900	250	18	228	260	1.900	300.0	942.0	600.0	1080.0
6	1870	1870	250	12	228	262	0.800	400.2	600.4	200.0	616.0
7	2250	2250	125	12	228	260	0.800	828.1	822.0	471.6	730.2
8	1840	1840	250	12	228	262	0.800	230.2	200.2	212.0	327.0
9	1120	1120	250	12	228	262	0.800	205.4	204.2	228.7	360.0
10	1400	2245	250	12	52	52	0.800	782.0	1167.1	676.0	900.2
11	14700	22845	250	12	80	80	0.800	1200.0	1900.0	1160.0	1760.0
12	6700	6700	250	12	2	2	0.800	11.6	11.0	10.0	10.0
13	1440	1440	250	12	26	26	0.800	37.4	37.4	33.2	33.2
14	1100	1100	250	12	240	247	0.800	400.0	621.0	300.0	551.0
TOTAL FOR SEMENT 1					CONCRETE : 86.00 m ³			REINFORCEMENT :		6746.5 kg	
TOTAL FOR SEMENT 2					CONCRETE : 100.00 m ³			REINFORCEMENT :		10070.0 kg	
TOTAL FOR THE WHOLE OF CULVERT					CONCRETE : 186.00 m ³			REINFORCEMENT :		17120.1 kg	

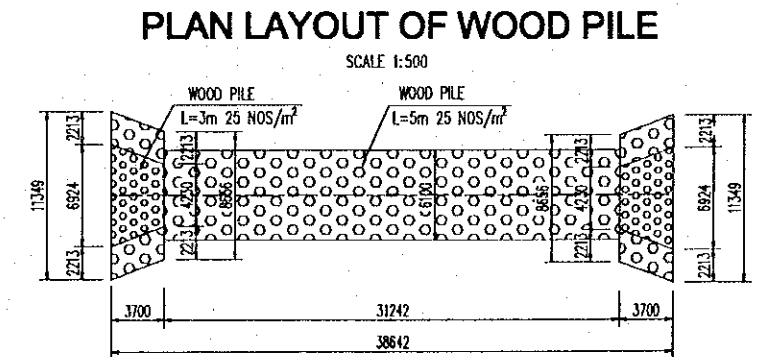
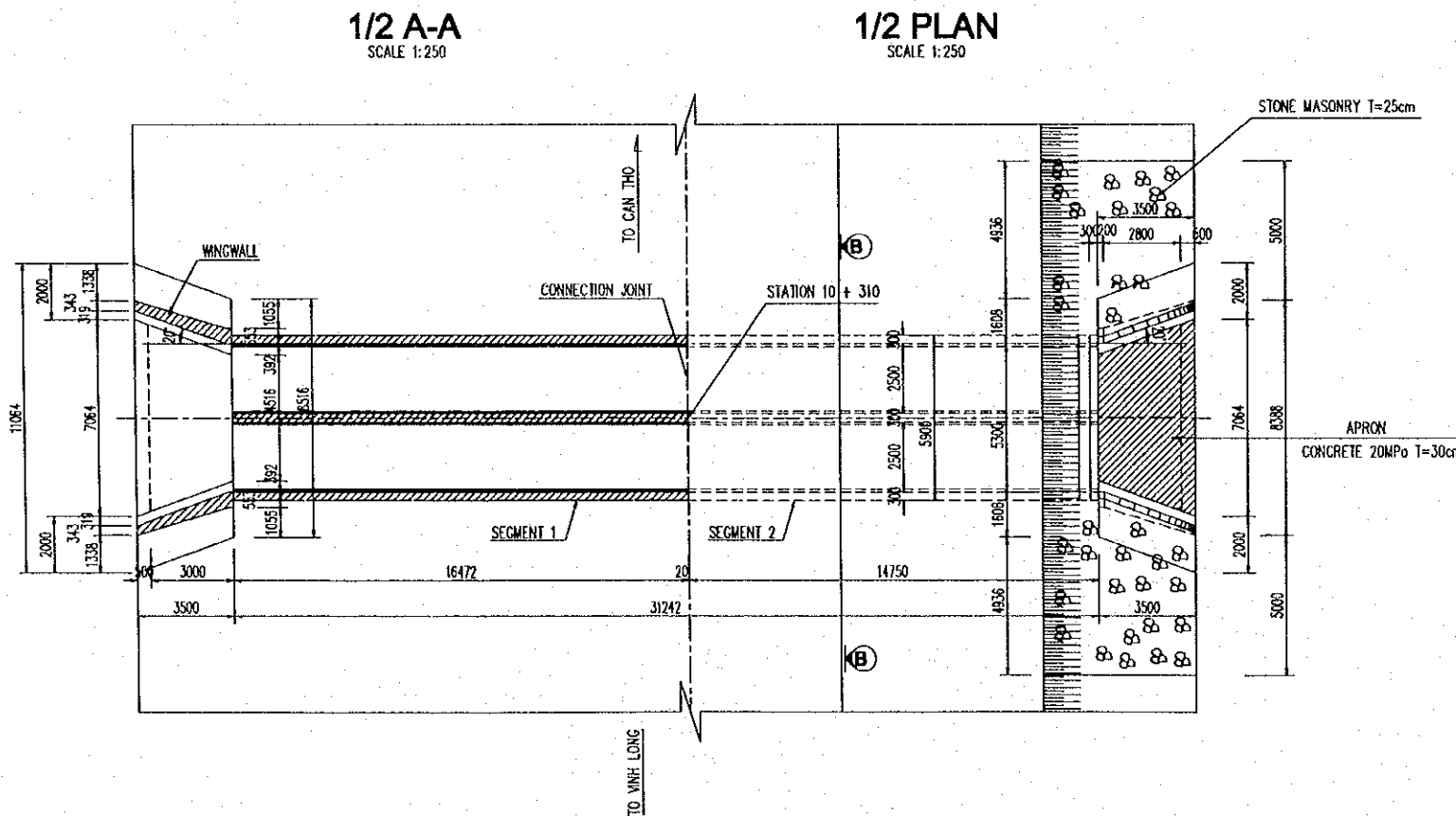
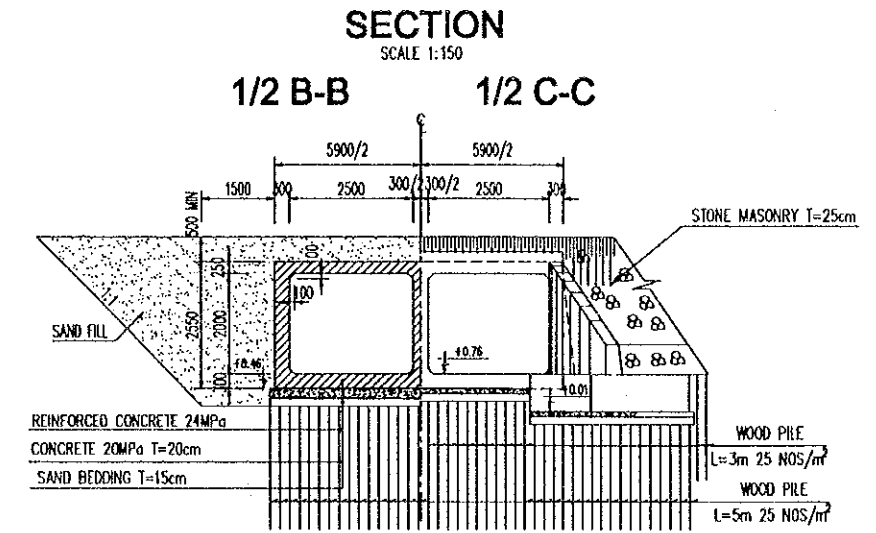
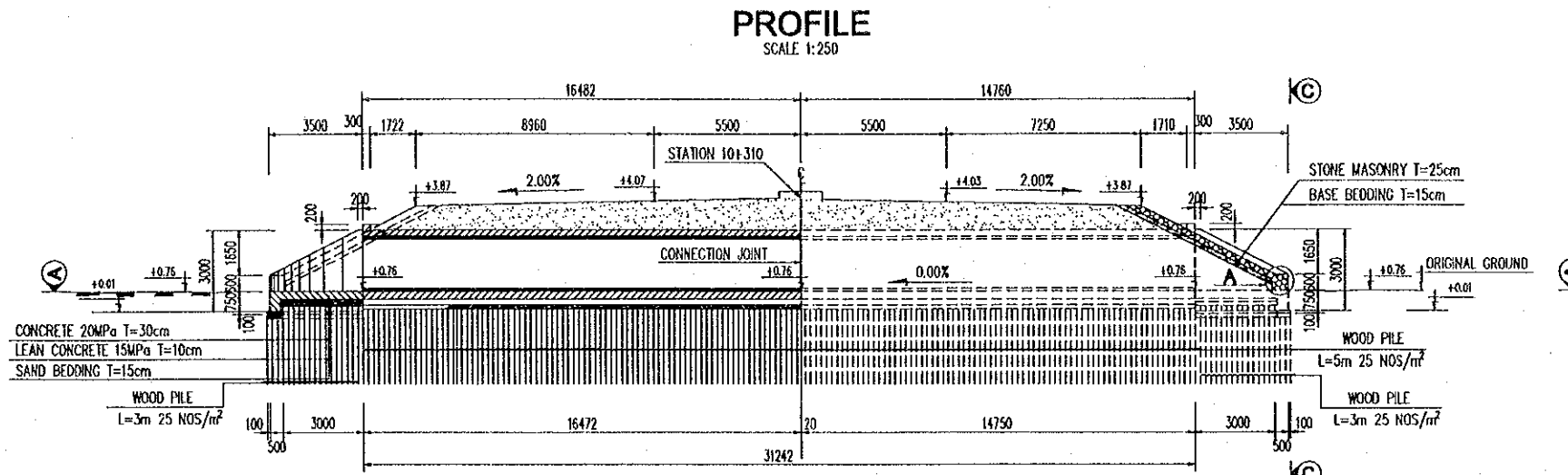


NOTES :

- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- 2- THIS SEMENT IS USED FOR BAR CULVERT AT STATION IN THE TABLE.

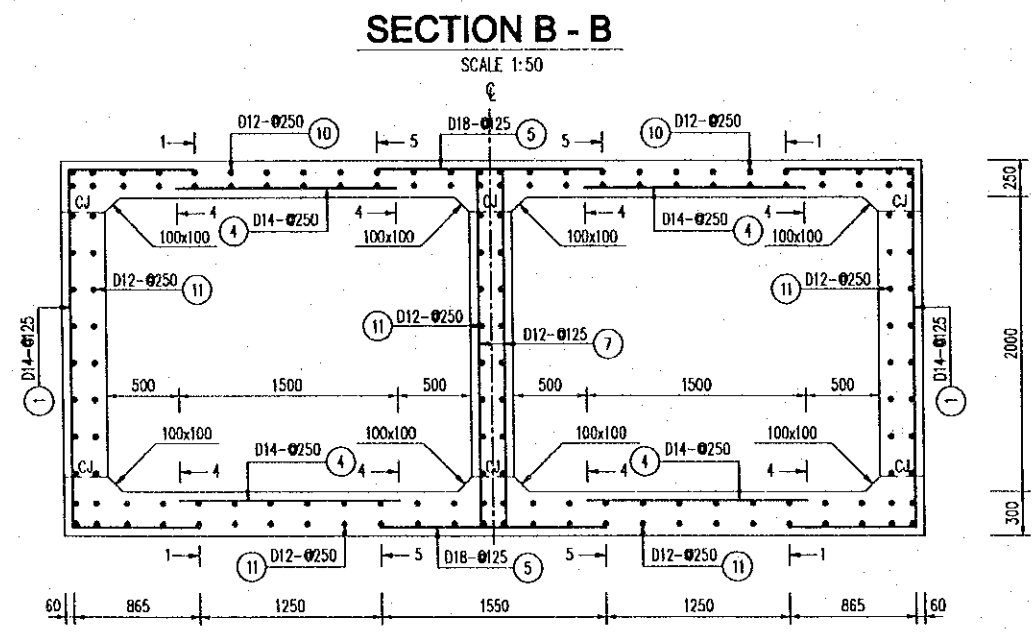
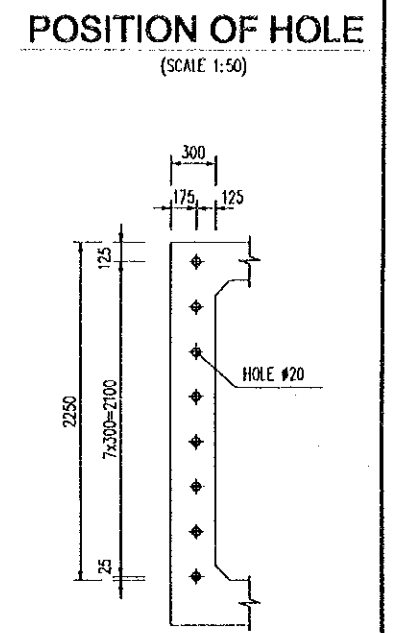
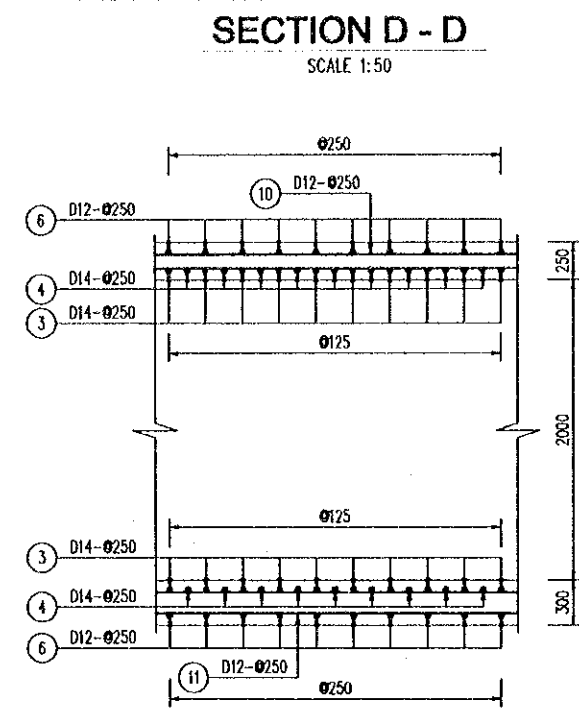
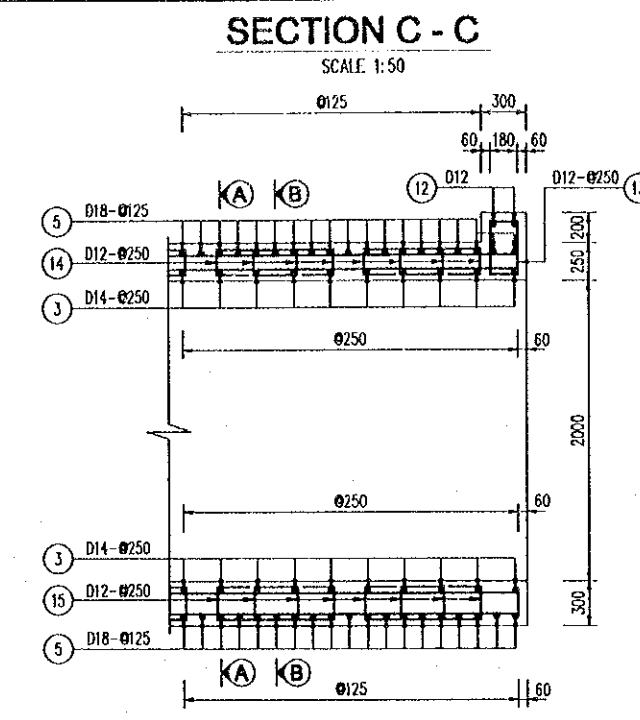
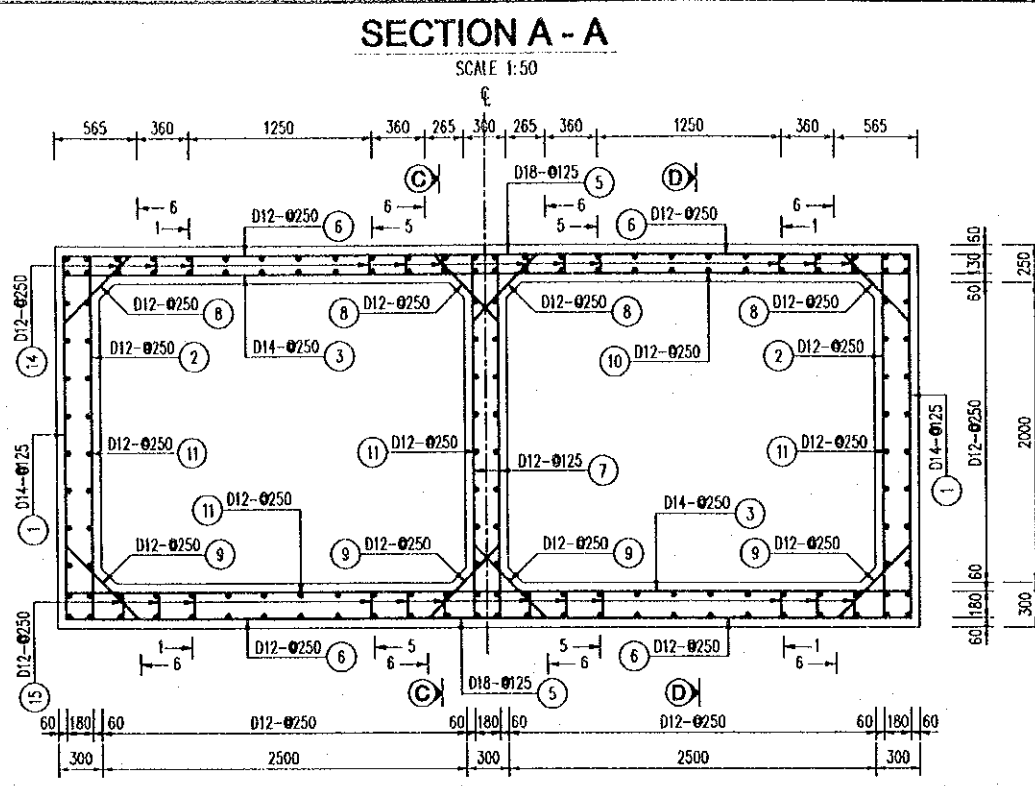
PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOEI CO.,LTD.	PREPARED BY NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	CHECKED BY NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	APPROVED BY NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	DRAWING TITLE REINFORCEMENT OF CULVERT STATION 9+760	DWG NO. P3/BC/0200
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BOX CULVERT FOR DRAINAGE (STATION 10+310)



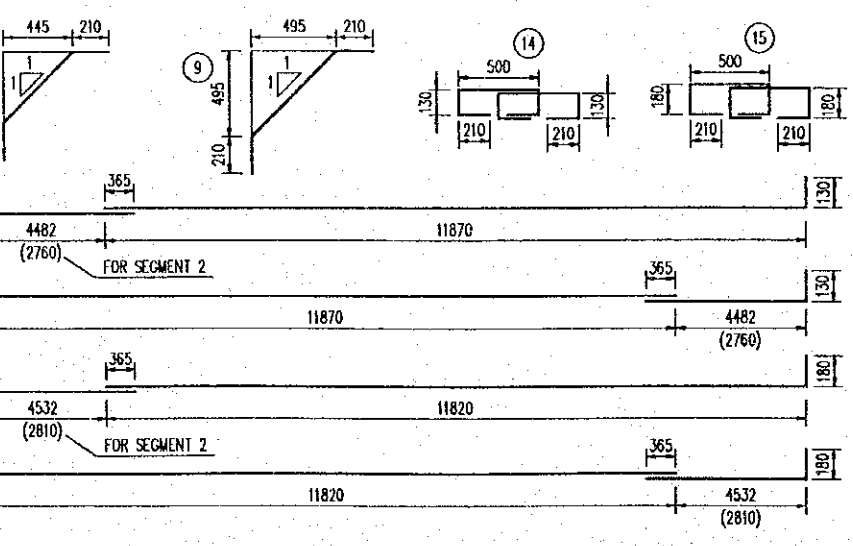
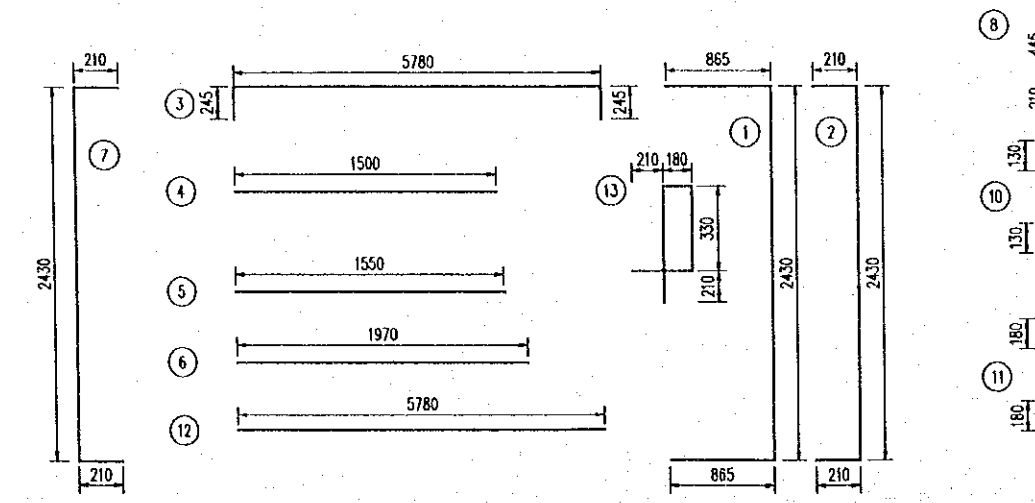
- NOTES :
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 - 2- ELEVATIONS ARE IN METERS IN REFERENCE TO THE NATIONAL DATUM LEVEL.
 - 3- WINGWALL IS SIMILAR TO BOX CULVERT AT STATION 7+950 - DRAWING No P3/BC/0100.
 - 4- DETAIL A IS SHOWN IN THE DOCUMENT OF APPROACH ROAD - DRAWING No P3/MS/0190.

PROJECT NAME	IMPLEMENTATION AGENCY	EXECUTING AGENCY	JICA STUDY TEAM	PREPARED BY	CHECKED BY	APPROVED BY	DRAWING TITLE	DWG NO.
DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	NIPPON KOBI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 24/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	GENERAL VIEW OF BOX CULVERT STATION 10 + 310	P3/BC/0210



QUANTITIES TABLE

SYMBOL OF BAR	UNIT LENGTH		SPACE (mm)	DIAMETER (mm)	NUMBER OF BAR		UNIT WEIGHT (kg/m)	TOTAL LENGTH		TOTAL WEIGHT		
	SEGMENT 1 (mm)	SEGMENT 2 (mm)			SEGMENT 1	SEGMENT 2		SEGMENT 1 (m)	SEGMENT 2 (m)	SEGMENT 1 (kg)	SEGMENT 2 (kg)	
1	4160	4160	125	14	262	238	1.208	1089.92	990.08	1317.1	1196.4	
2	2850	2850	250	12	132	120	0.888	376.20	342.00	334.0	303.6	
3	6270	6270	250	14	132	120	1.208	827.64	752.40	1000.1	909.2	
4	1500	1500	250	14	260	236	1.208	390.00	354.00	471.3	427.8	
5	1550	1550	125	18	262	238	1.998	406.10	368.90	811.2	736.9	
6	1970	1970	250	12	264	240	0.888	520.08	472.80	461.7	419.8	
7	2850	2850	125	12	262	238	0.888	746.70	678.30	662.9	602.7	
8	1049	1049	250	12	264	240	0.888	276.94	251.76	245.9	223.5	
9	1120	1120	250	12	284	240	0.888	295.68	288.80	282.5	238.6	
10	16977	15255	250	12	52	52	0.888	882.80	793.26	783.8	704.3	
11	17077	15355	250	12	100	100	0.888	1707.70	1535.50	1516.1	1363.2	
12	5780	5780	250	12	2	2	0.888	11.56	11.56	10.3	10.3	
13	1440	1440	250	12	26	26	0.888	37.44	37.44	33.2	33.2	
14	1180	1180	250	12	395	354	0.888	466.49	417.72	414.2	370.9	
15	1280	1280	250	12	395	354	0.888	506.02	453.12	449.3	402.3	
TOTAL FOR SEGMENT 1					CONCRETE : 84.11 m ³			REINFORCEMENT : 8773.5 kg				
TOTAL FOR SEGMENT 2					CONCRETE : 75.36 m ³			REINFORCEMENT : 7942.2 kg				
TOTAL FOR THE WHOLE OF CULVERT					CONCRETE : 159.47 m ³			REINFORCEMENT : 16715.8 kg				



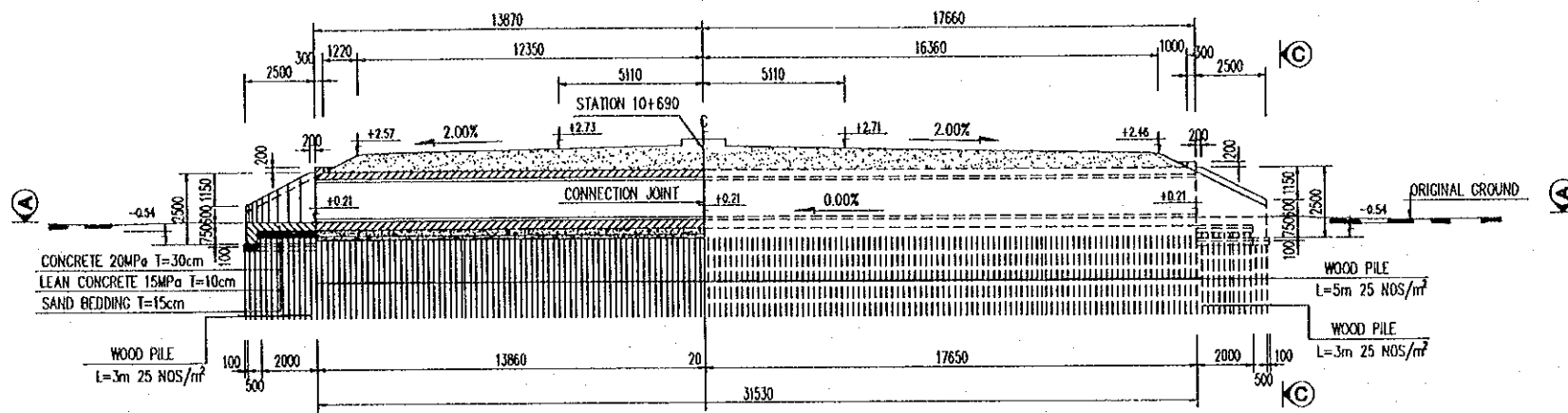
NOTES:

- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- 2- LENGTH OF SEGMENT SEE GENERAL VIEW DRAWING.

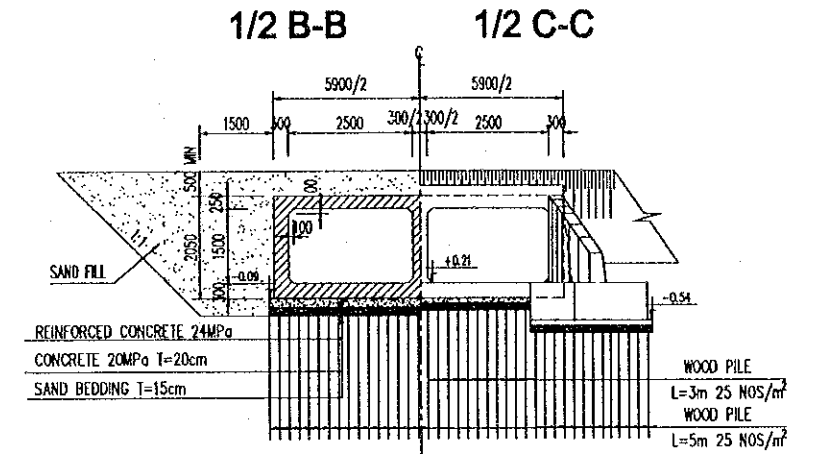
PROJECT NAME DETAILED DESIGN OF THE CAN THO BRIDGE CONSTRUCTION PROJECT	IMPLEMENTATION AGENCY JICA JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)	EXECUTING AGENCY SOCIALIST REPUBLIC OF VIET NAM MINISTRY OF TRANSPORT (MOT) MY THUAN PROJECT MANAGEMENT UNIT	JICA STUDY TEAM NIPPON KOBİ CO.,LTD.	PREPARED BY NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	CHECKED BY NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	APPROVED BY NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	DRAWING TITLE REINFORCEMENT OF CULVERT STATION 10+310	DWG NO. P3/BC/0220
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BOX CULVERT DRAINAGE (STATION 10+690)

PROFILE
SCALE 1:250

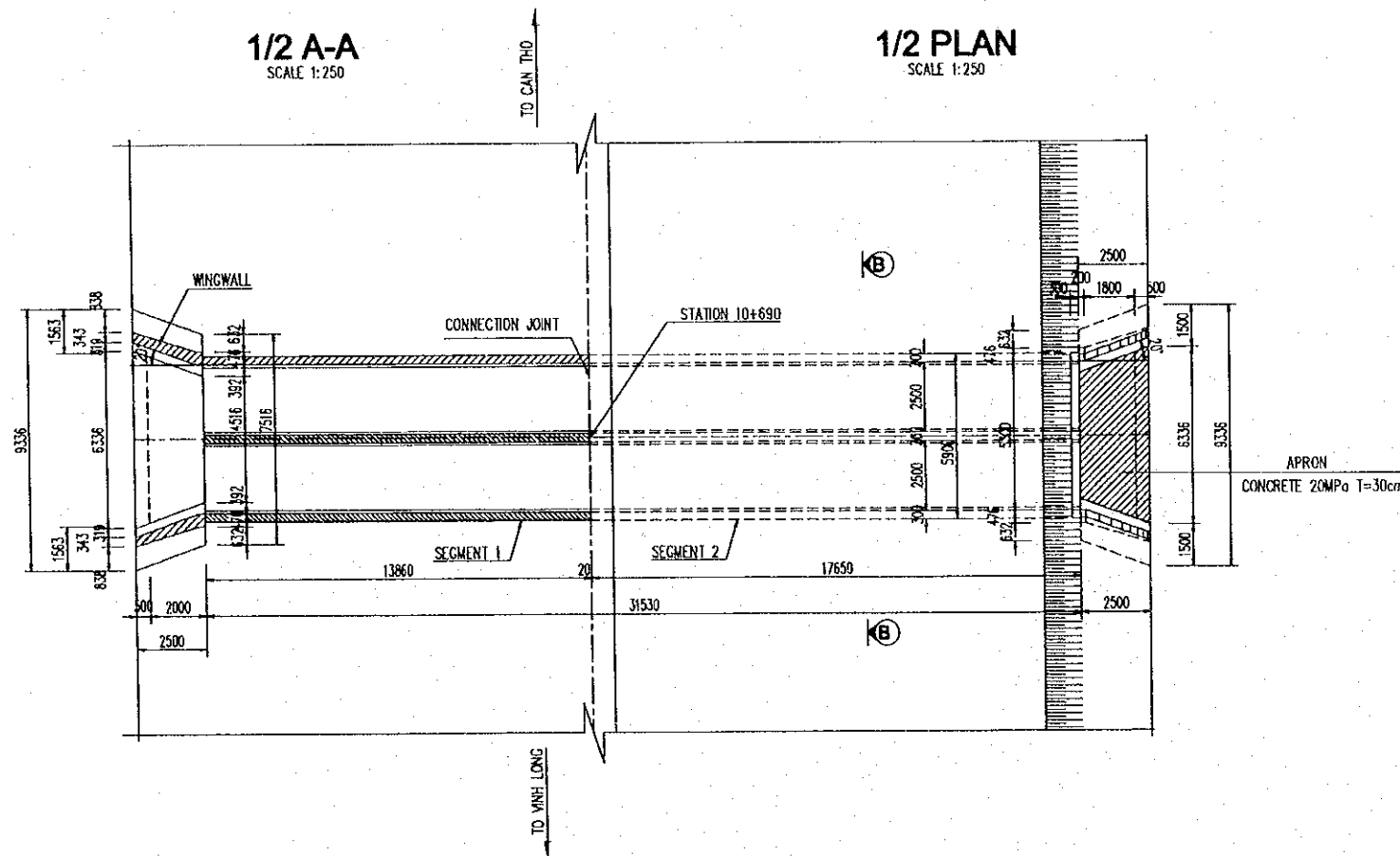


SECTION
SCALE 1:150

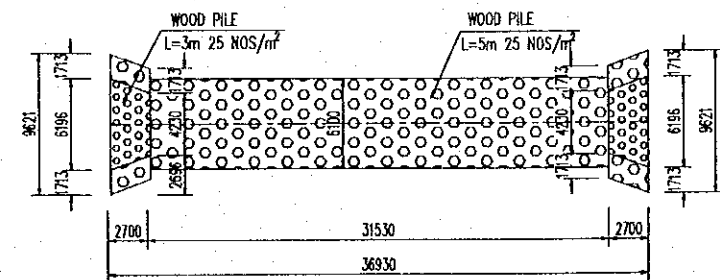


1/2 A-A
SCALE 1:250

1/2 PLAN
SCALE 1:250



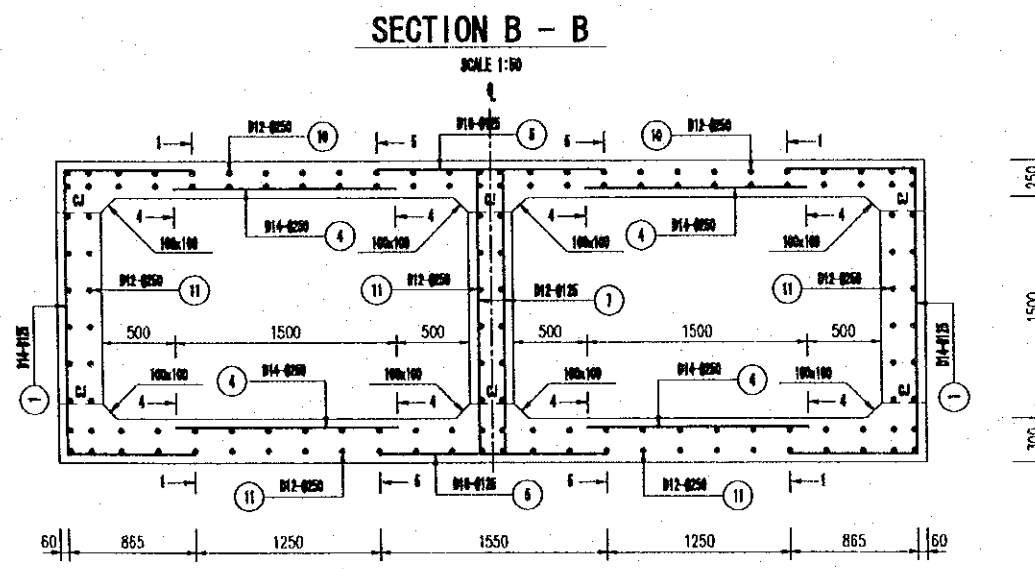
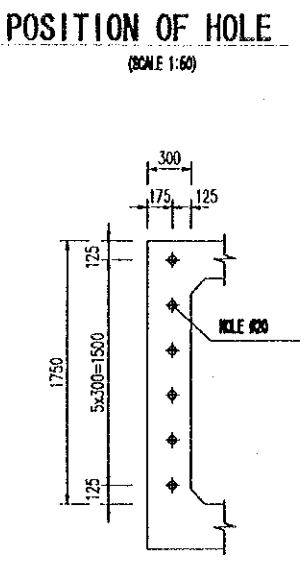
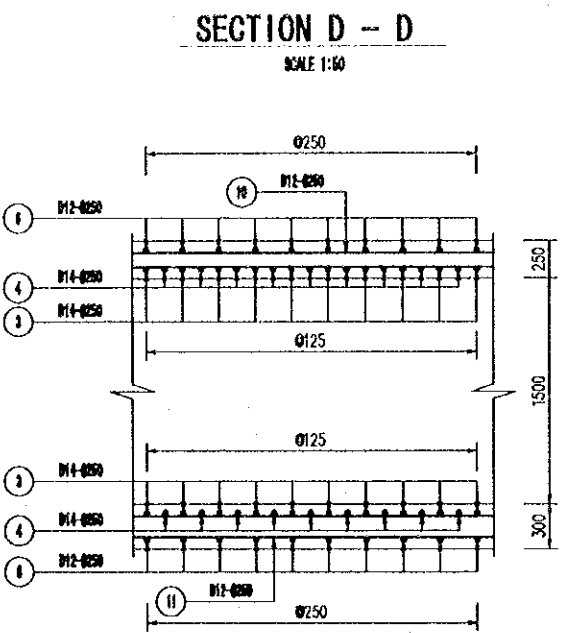
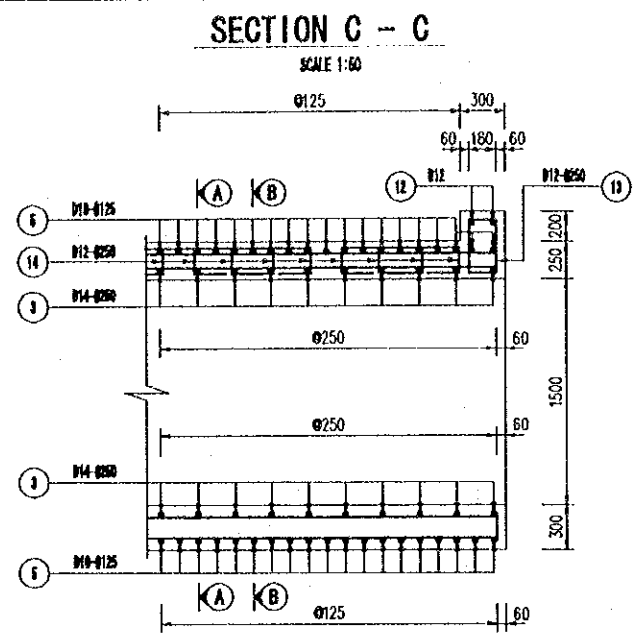
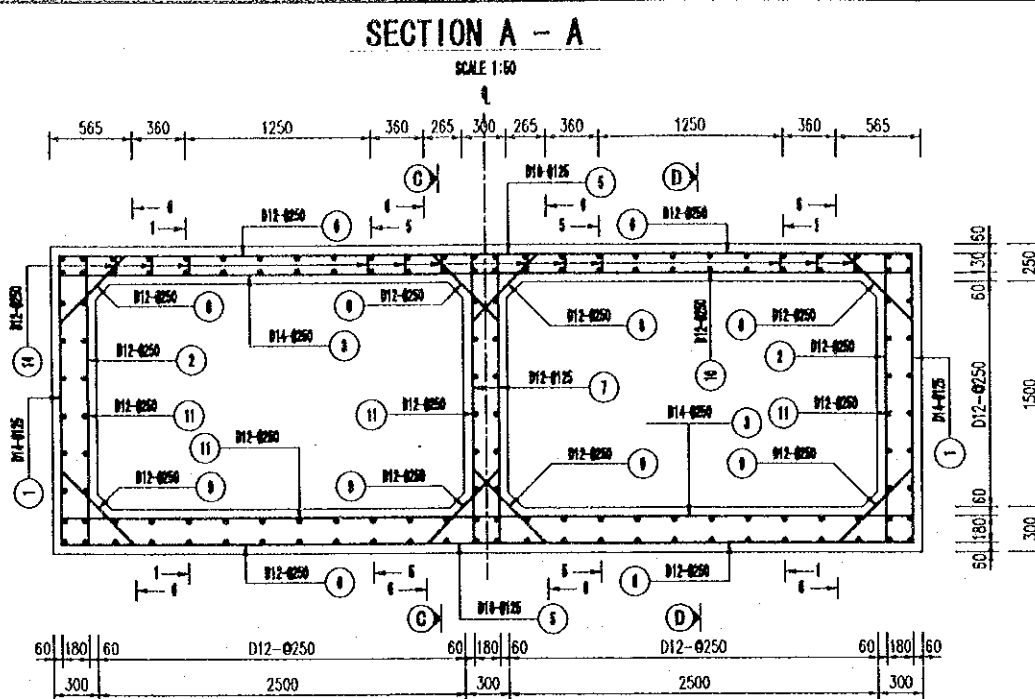
PLAN LAYOUT OF WOOD PILE
SCALE 1:500



NOTES :

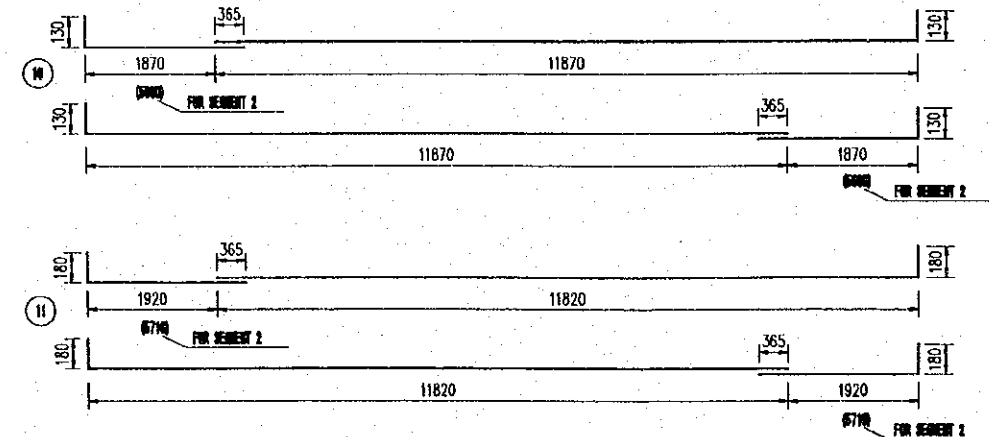
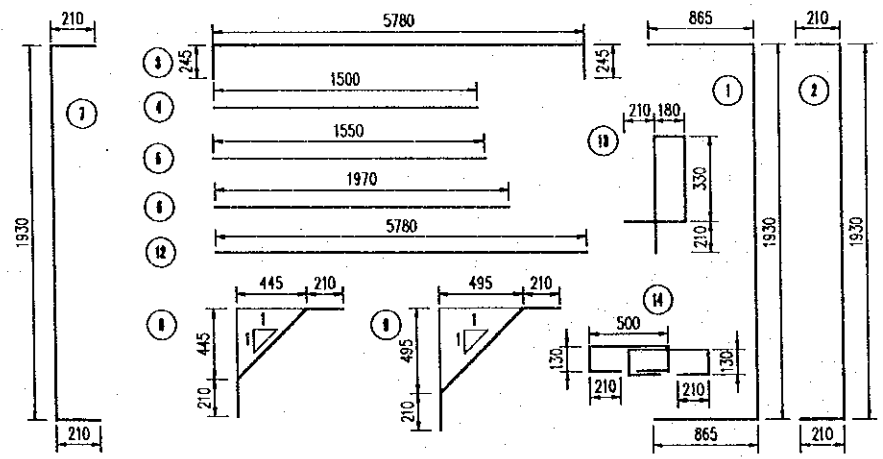
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- 2- ELEVATIONS ARE IN METERS IN REFERENCE TO THE NATIONAL DATUM LEVEL.
- 3- WINGWALL IS SIMILAR TO BOX CULVERT AT STATION 9+760 - DRAWING No P3/BC/0180.
- 4- DETAIL A IS SHOWN IN THE DOCUMENT OF APPROACH ROAD - DRAWING No P3/MS/0190.

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: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	GENERAL VIEW OF BOX CULVERT STATION 10 + 690	P3/BC/0230



QUANTITIES TABLE

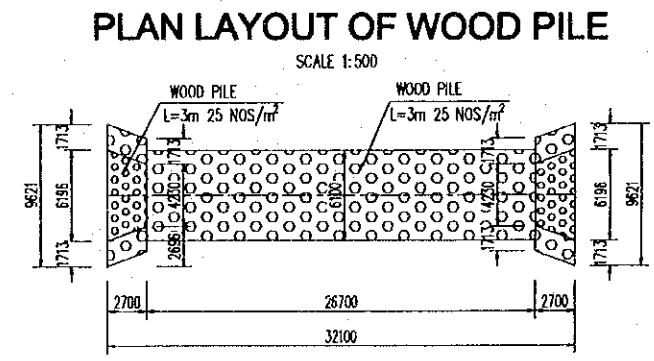
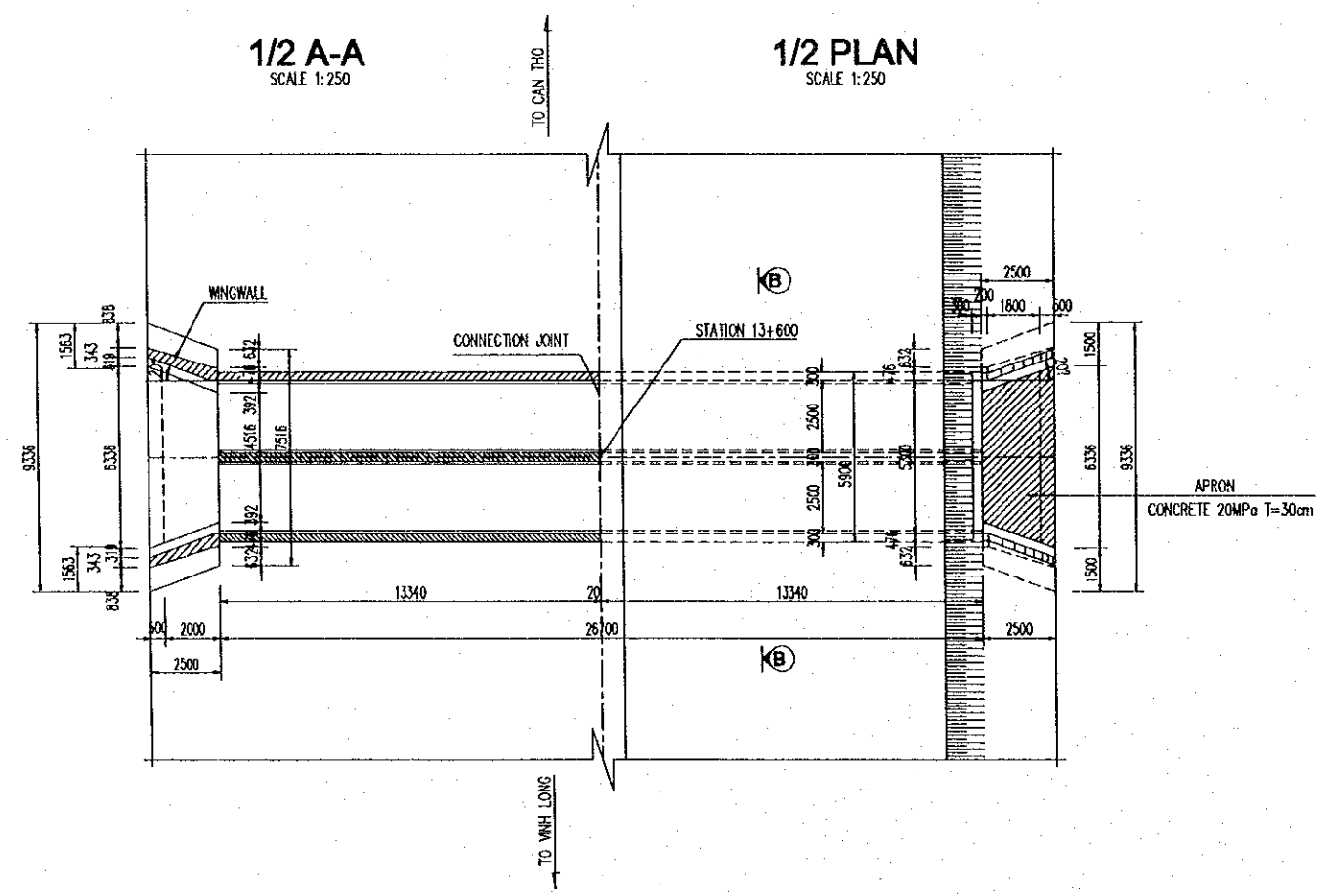
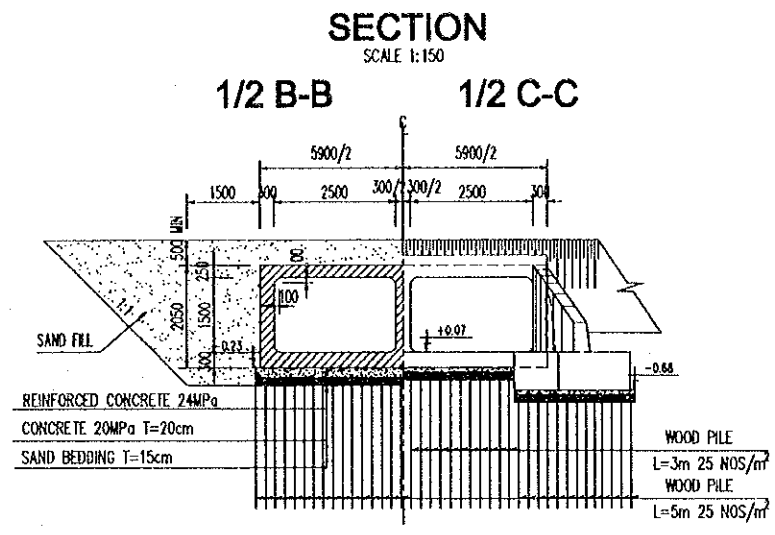
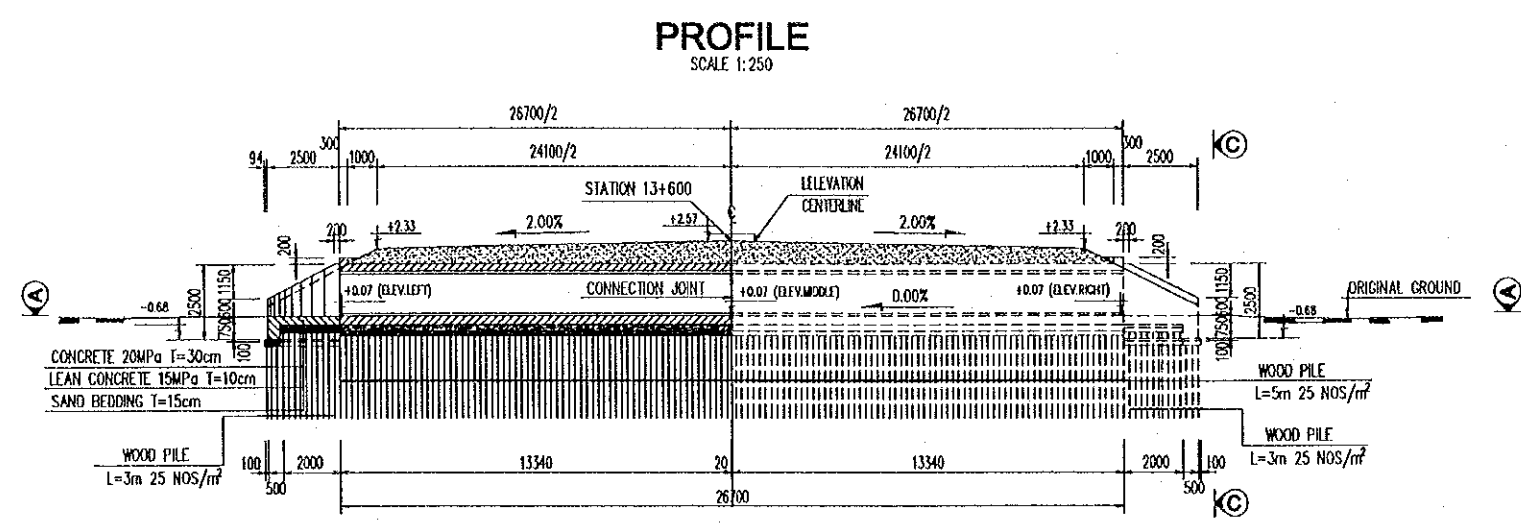
SYMBOL OF BAR	UNIT LENGTH		SPACE	DIAMETER	NUMBER OF BAR		UNIT WEIGHT	TOTAL LENGTH		TOTAL WEIGHT		
	SEGMENT 1	SEGMENT 2			SEGMENT 1	SEGMENT 2		SEGMENT 1	SEGMENT 2	SEGMENT 1	SEGMENT 2	
1	2000	2000	125	14	222	202	0.200	612.5	1002.1	661.9	1207.2	
2	2250	2250	250	12	112	142	0.000	202.2	282.7	222.7	296.9	
3	6270	6270	250	14	112	142	1.200	702.2	600.3	600.0	1075.9	
4	1800	1800	250	14	228	208	1.200	300.0	420.0	300.0	377.5	
5	1550	1550	125	14	222	202	1.000	344.1	427.1	307.4	371.1	
6	1970	1970	250	12	224	204	0.000	441.3	600.5	301.0	390.7	
7	2250	2250	125	12	222	202	0.000	521.7	602.7	463.2	580.4	
8	1040	1040	250	12	224	204	0.000	226.0	297.0	200.0	254.6	
9	1120	1120	250	12	224	204	0.000	200.0	310.1	222.7	282.4	
10	14205	14155	250	12	52	52	0.000	747.0	944.1	662.2	820.1	
11	14400	14250	250	12	60	60	0.000	1272.0	1000.4	1120.1	1420.2	
12	6700	6700	250	12	2	2	0.000	11.6	11.6	16.3	16.3	
13	1440	1440	250	12	20	20	0.000	37.4	37.4	33.2	33.2	
14	1100	1100	250	12	330	424	0.000	202.5	400.0	200.0	440.0	
TOTAL FOR SEGMENT 1					CONCRETE :			64.00	REINFORCEMENT :		6621.0	kg
TOTAL FOR SEGMENT 2					CONCRETE :			62.10	REINFORCEMENT :		3302.7	kg
TOTAL FOR THE WHOLE OF CULVERT					CONCRETE :			126.10	REINFORCEMENT :		10000.5	kg



NOTES :
 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 2- THIS REINFORCEMENT IS USED FOR THE WHOLE OF CULVERT AT STATION IN THE TABLE.

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 NIPON KOEI CO.,LTD.	PREPARED BY NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	CHECKED BY K. Nakai DATE: 24/9/2000	APPROVED BY K. Enomoto DATE: 5/10/2000	DRAWING TITLE REINFORCEMENT OF CULVERT STATION 10+690	DWG NO. P3/BC/0240
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BOX CULVERT DRAINAGE (STATION 10+950)



- NOTES:
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 - 2- ELEVATIONS ARE IN METERS IN REFERENCE TO THE NATIONAL DATUM LEVEL.
 - 3- WINGWALL IS SIMILAR TO BOX CULVERT AT STATION 9+760 - DRAWING No P3/BC/0180.
 - 4- DETAIL A IS SHOWN IN THE DOCUMENT OF APPROACH ROAD - DRAWING No P3/MS/0190.

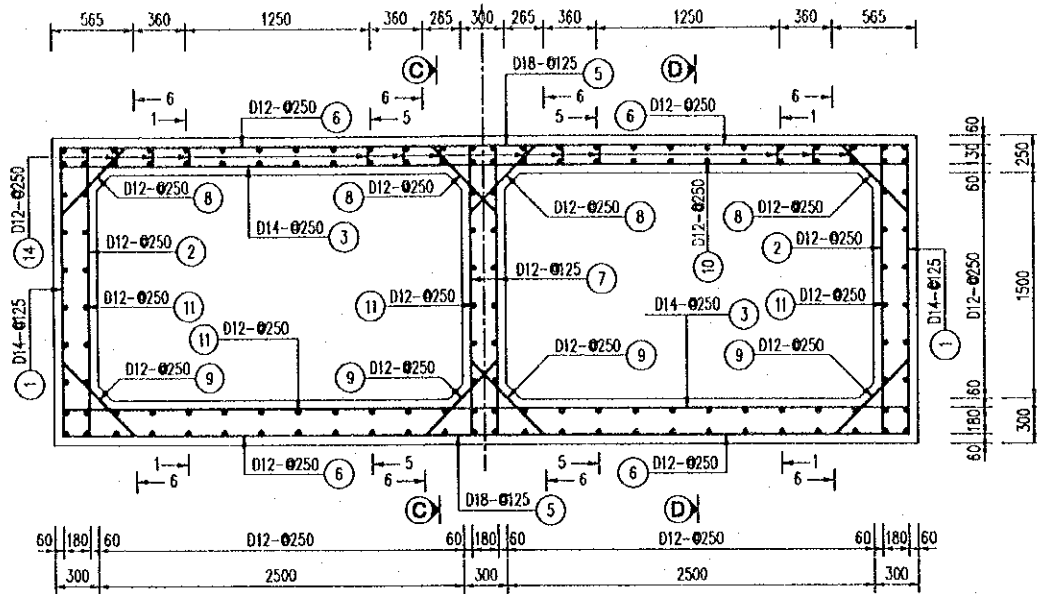
TABLE BOX CULVERT TYPE C

No	STATION	ELEVATION CENTERLINE	ELEVATION MIDDLE	ELEVATION LEFT	ELEVATION RIGHT
01	10+950	2.57	0.07	0.07	0.07
02	11+451	2.97	0.47	0.47	0.47
03	13+600	2.87	0.37	0.37	0.37
04	14+450	2.85	0.35	0.35	0.35
05	14+625	2.74	0.27	0.27	0.27

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 KOBI CO.,LTD.	NAME: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 24/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	GENERAL VIEW OF BOX CULVERT STATION 10+950	P3/BC/0250

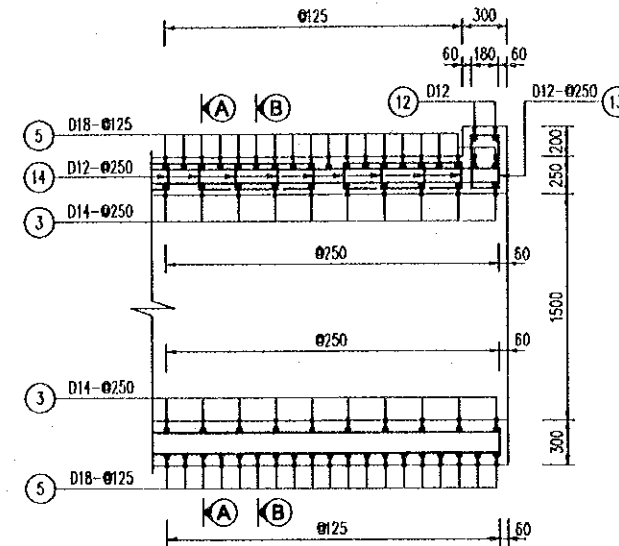
SECTION A - A

SCALE 1:50



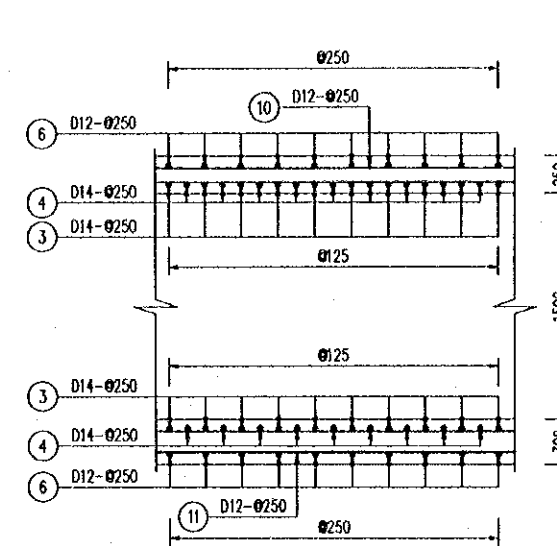
SECTION C - C

SCALE 1:50



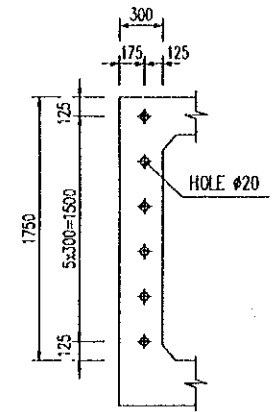
SECTION D - D

SCALE 1:50



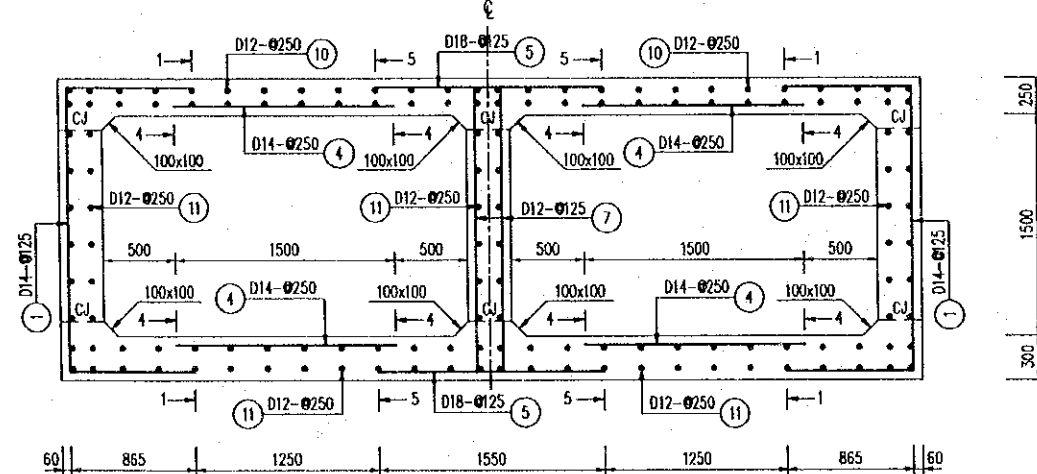
POSITION OF HOLE

(SCALE 1:50)



SECTION B - B

SCALE 1:50



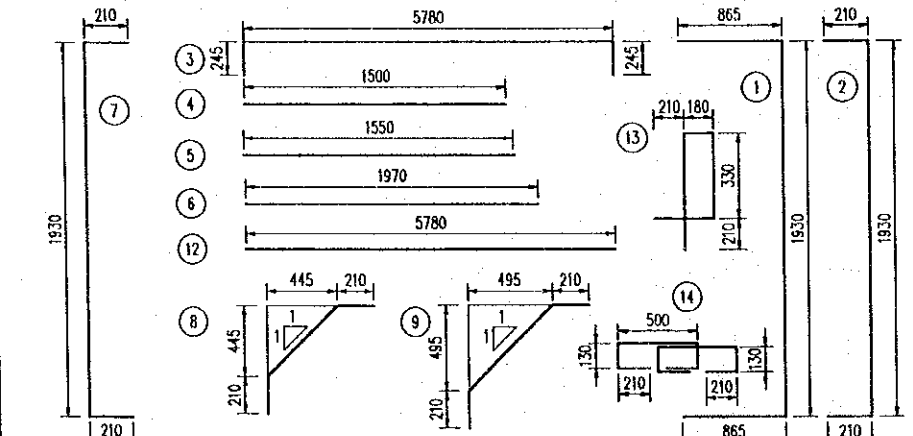
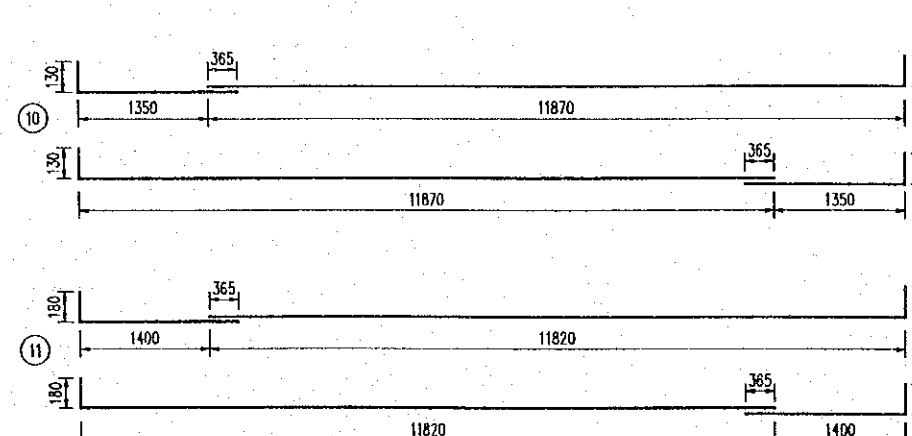
QUANTITIES TABLE

SYMBOL OF BAR	UNIT LENGTH (mm)	SPACE (mm)	DIAMETER (mm)	NUMBER OF BAR	UNIT WEIGHT (kg/m)	TOTAL LENGTH (m)	TOTAL WEIGHT (kg)
1	3660	125	14	214	1.208	783.24	946.5
2	2350	250	12	108	0.888	253.80	225.3
3	6270	250	14	108	1.208	677.16	818.3
4	1500	250	14	212	1.208	318.00	384.3
5	1550	125	18	214	1.998	331.70	652.6
6	1970	250	12	216	0.888	425.52	377.8
7	2350	125	12	214	0.888	502.90	446.5
8	1049	250	12	216	0.888	226.58	201.2
9	1120	250	12	216	0.888	241.92	214.8
10	13845	250	12	52	0.888	719.94	639.2
11	13945	250	12	88	0.888	1227.16	1089.5
12	5780	250	12	2	0.888	11.56	10.3
13	1440	250	12	26	0.888	37.44	33.2
14	1180	250	12	320	0.888	377.79	335.4
TOTAL FOR 1 SEGMENT			CONCRETE : 62.18 m ³	REINFORCEMENT : 6384.7 kg			
TOTAL FOR THE WHOLE OF CULVERT			CONCRETE : 124.36 m ³	REINFORCEMENT : 12769.5 kg			

NOTES :

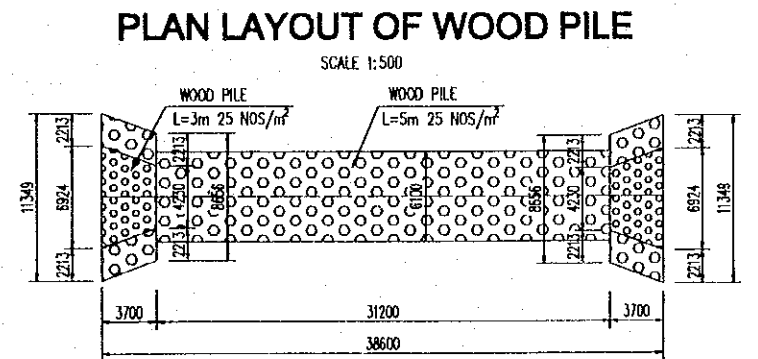
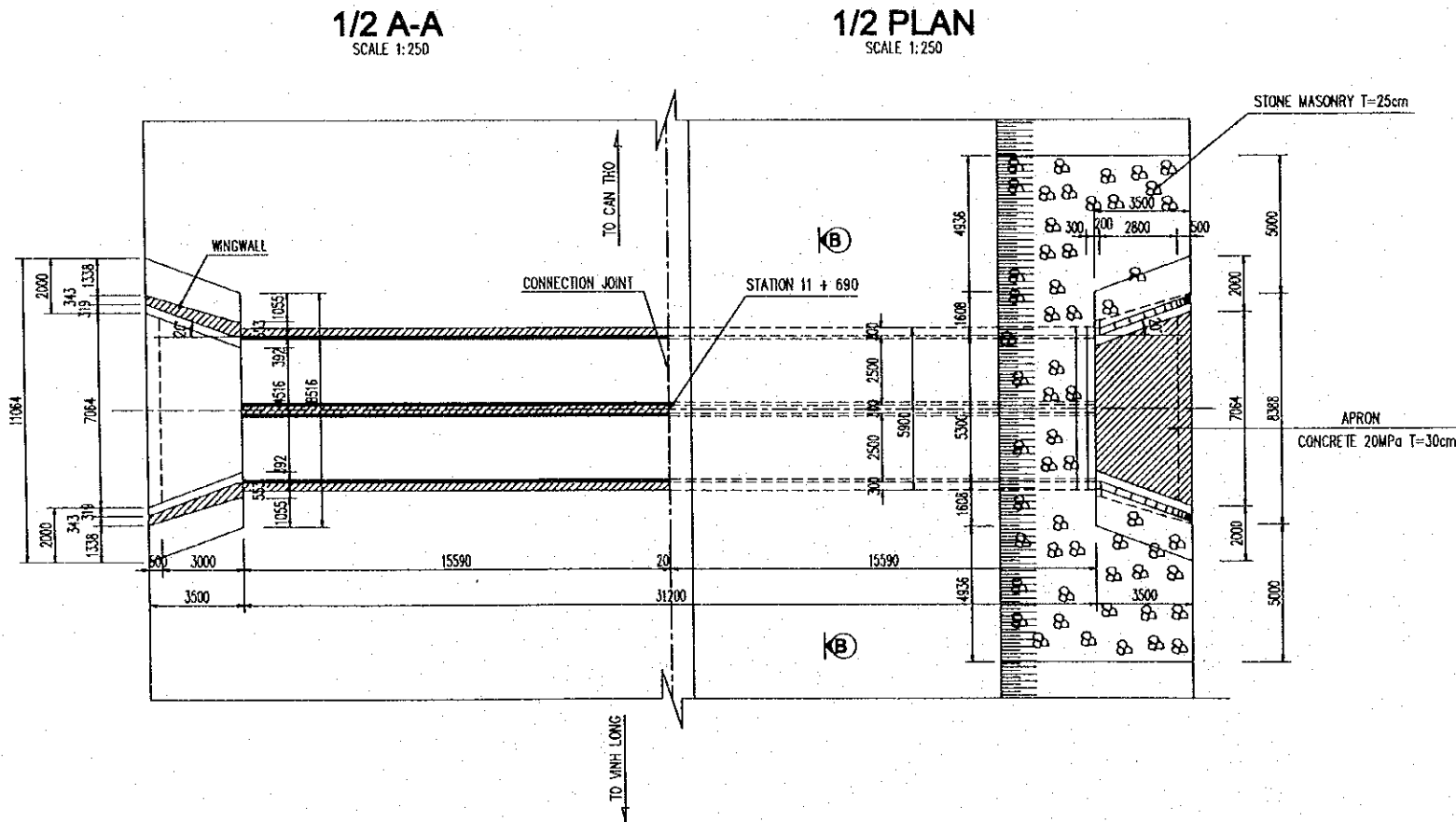
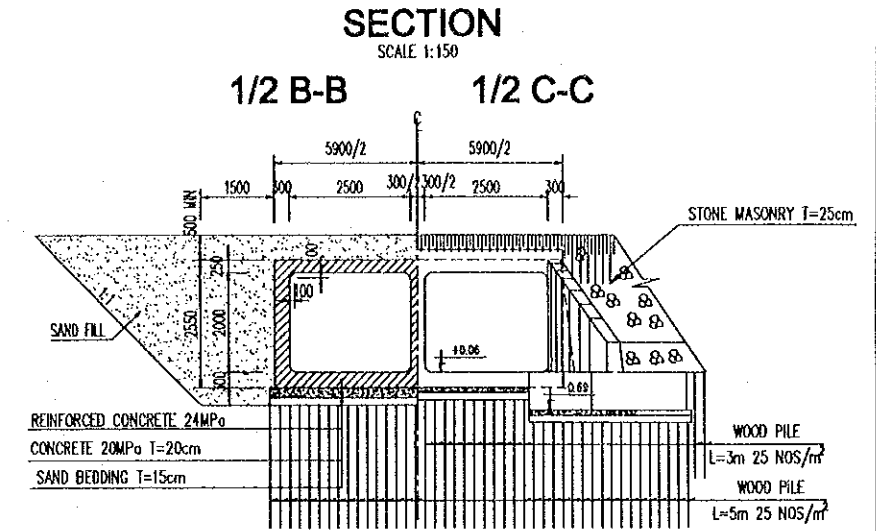
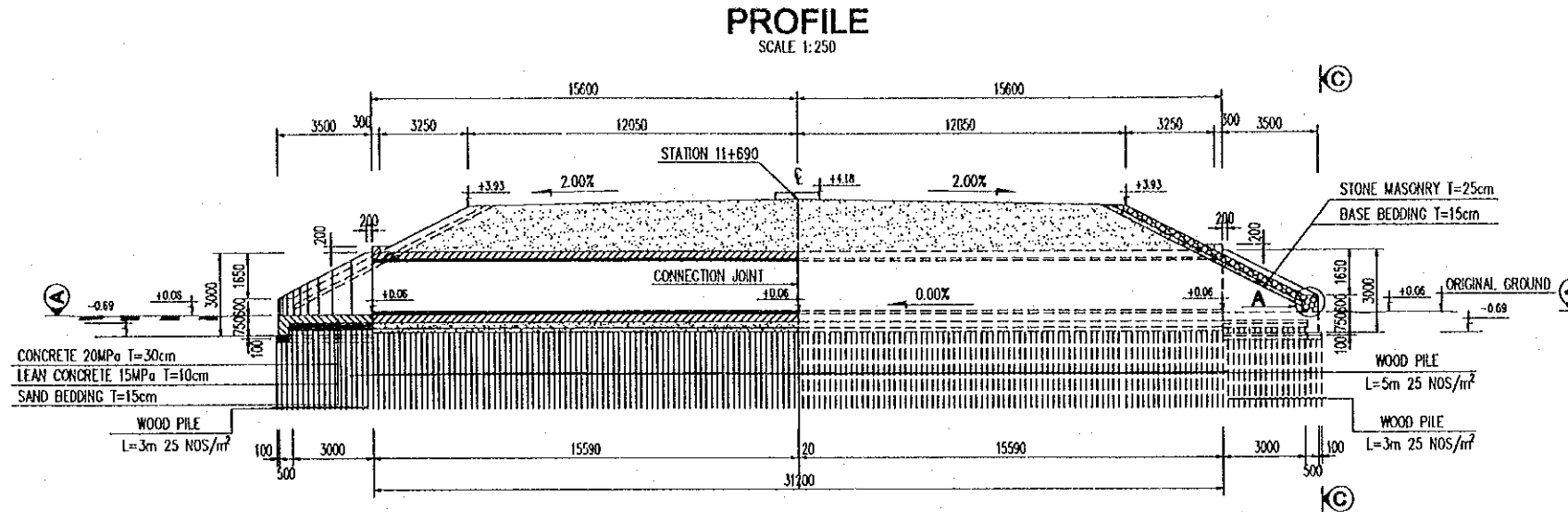
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- 2- THIS SEGMENT IS USED FOR BOX CULVERT AT STATION IN THE TABLE.

No	STATION	SEGMENTS	LENGTH (m)		
			LEFT	RIGHT	TOTAL
1	10+950	2	13.34	13.34	26.68
2	11+451	2	13.34	13.34	26.68
3	13+600	2	13.34	13.34	26.68
4	14+450	2	13.34	13.34	26.68
5	14+625	2	13.34	13.34	26.68



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: K. Nemoto SIGNATURE: [Signature] DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: [Signature] DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: [Signature] DATE: 5/10/2000	REINFORCEMENT OF CULVERT STATION 10+950	P3/BC/0260

BOX CULVERT FOR DRAINAGE (STATION 11+690)



- NOTES:
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
 - 2- ELEVATIONS ARE IN METERS IN REFERENCE TO THE NATIONAL DATUM LEVEL.
 - 3- WINGWALL IS SIMILAR TO BOX CULVERT AT STATION 7+950 - DRAWING No P3/BC/0100.
 - 4- DETAIL A IS SHOWN IN THE DOCUMENT OF APPROACH ROAD - DRAWING No P3/MS/0190.

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: K. Nemoto SIGNATURE: <i>K. Nemoto</i> DATE: 20/9/2000	NAME: K. Nakai SIGNATURE: <i>K. Nakai</i> DATE: 29/9/2000	NAME: K. Enomoto SIGNATURE: <i>K. Enomoto</i> DATE: 5/10/2000	GENERAL VIEW OF BOX CULVERT STATION 11 + 690	P3/BC/0270