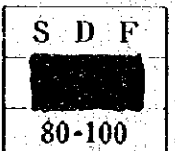


AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS
CONTRACT FOR CONSTRUCTION
OF
BEAU BASSIN-PORT LOUIS LINK ROAD
VOLUME C
TECHNICAL DOCUMENTS
II ROAD

SEPTEMBER 1980

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AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS
CONTRACT FOR CONSTRUCTION
OF
BEAU BASSIN-PORT LOUIS LINK ROAD
VOLUME C
TECHNICAL DOCUMENTS

II ROAD

SEPTEMBER 1980

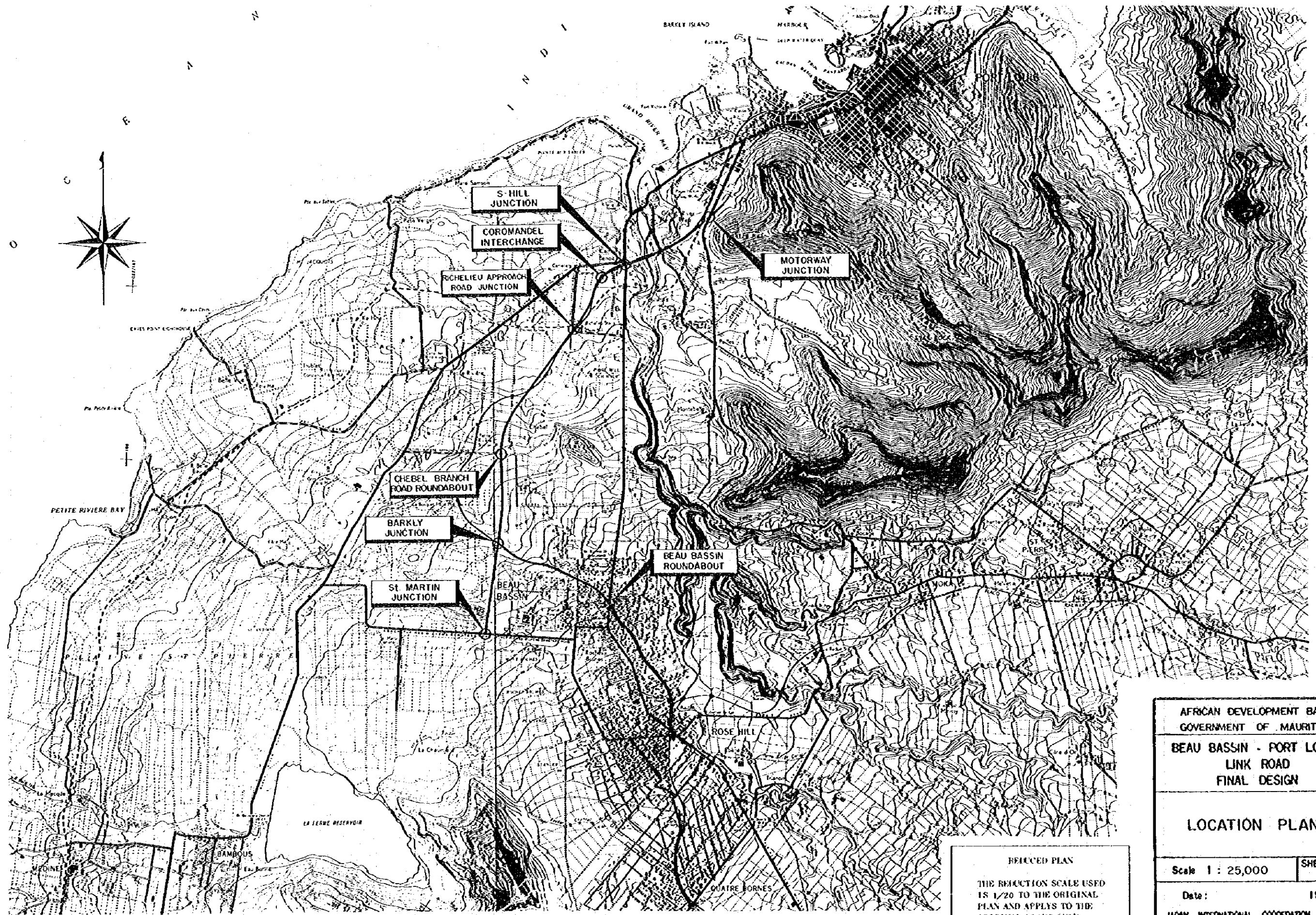
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AFRICAN DEVELOPMENT BANK
 GOVERNMENT OF MAURITIUS
 BEAU BASSIN - PORT LOUIS
 LINK ROAD
 FINAL DESIGN

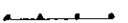




LOCATION PLAN

Scale 1 : 25,000	SHEET NO. 1/152
Date:	1980

JAPAN INTERNATIONAL COOPERATION AGENCY

REDUCED PLAN
 THE REDUCTION SCALE USED
 IS 1/20 TO THE ORIGINAL
 PLAN AND APPLYS TO THE
 ORIGINAL PLANS ONLY.

ABBREVIATIONS

SYMBOLS	DESCRIPTION	REMARKS
C-Bx W x H x L	REINFORCED CONCRETE BOX CULVERT	W : WIDTH H : HEIGHT L : LENGTH
C-P () Ø D L =	PIPE CULVERT	Ø D : DIAMETER () : TYPE
P-C-K ()	PRECAST CONCRETE KERB	() : TYPE
Ds-Pu ()	PRECAST CONCRETE SIDE DITCH U-TYPE	"
Ds-U ()	CAST IN PLACE CONCRETE SIDE DITCH U-TYPE	"
Ds-Ū ()	CAST IN PLACE CONCRETE SIDE DITCH U-TYPE WITH COVER	"
Ds-L ()	CAST IN PLACE CONCRETE SIDE DITCH L-TYPE	"
Ds-ED	EARTH DITCH	
Ds-RS	RIP RAP SURFACED DITCH	
Ds-RG	ROLLED GUTTER	
R _L -Ww	RELOCATED WATER WAY	
Dv-U	CAST IN PLACE CONCRETE VERTICAL DITCH U-TYPE	
Si	SHOULDER INLET	
Dc-()	CATCH BASIN	() : TYPE
Dc̄-()	CATCH BASIN WITH COVER	"
Hw-()	HEAD WALL	"
Fr-Rd-W	FRONTAGE ROAD	W : WIDTH
Ap-Rd-W	APPROACH ROAD	"
STA.	STATION NUMBER	
KA, KE	BEGINNING OF CLOTHOIDE CURVE, END OF CLOTHOIDE CURVE	
BC, EC	BEGINNING OF CIRCULAR CURVE, END OF CIRCULAR CURVE	
GH, PH	GRAND HEIGHT, PROPOSED HEIGHT	
D.L	DATUM LINE	
V. C. L	VERTICAL CURVE LENGTH	
R	RADIUS OF CURVATURE	
L	LENGTH	
G.R 	GUARD RAIL	
CRW 	CONCRETE RETAINING WALL	
Sm(E), Sm(C) 	STONE MASONRY AT EMBANKMENT SECTION, STONE MASONRY AT CUT SECTION	
 CENTER LINE	CUTTING SLOPE	
 CENTER LINE	EMBANKMENT SLOPE	
φ	MILD STEEL BAR	
Φ	HIGH YIELD DEFORMED BAR	

AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITUS

BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN

ABBREVIATION

Scale 1 :

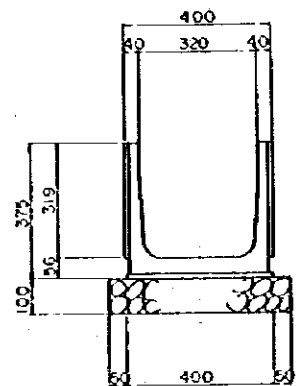
SHEET NO.
2/152

Date:

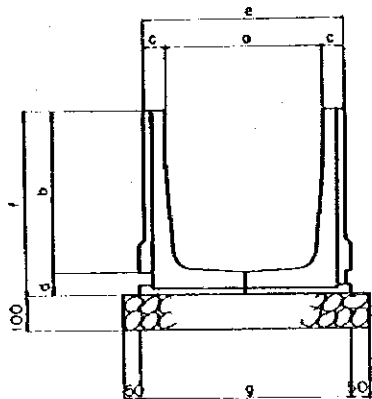
1980

JAPAN INTERNATIONAL COOPERATION AGENCY

Ds-Pu (A) SCALE 1:10



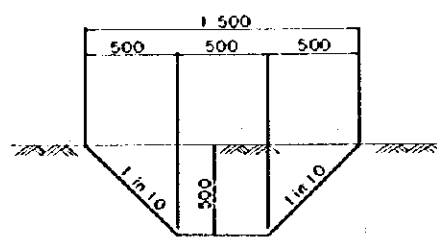
Ds-Pu (TYPE) SCALE 1:10



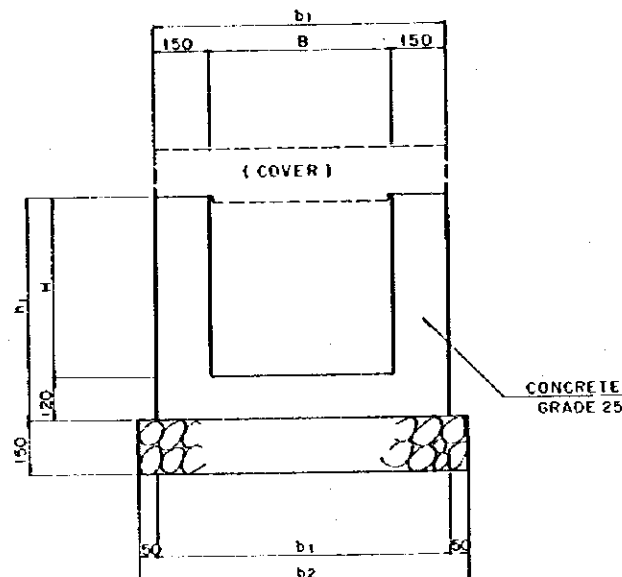
DIMENSIONS

SYMBOLS	a	b	c	d	e	f	g
Ds-Pu (B1)	432	448	60	60	552	508	584
Ds-Pu (B2)	479	539	60	60	599	599	635
Ds-Pu (B3)	571	591	60	60	691	651	720

Ds-ED SCALE 1:20



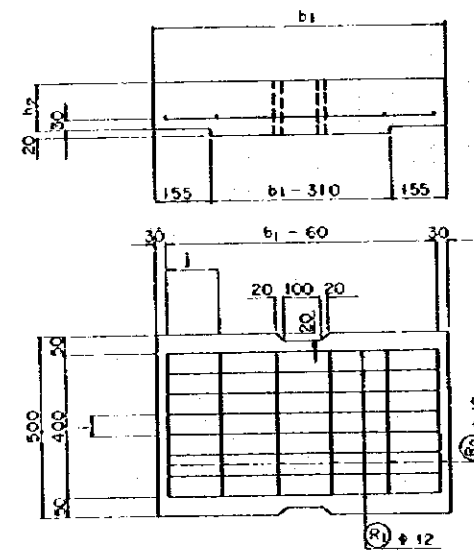
Ds-U (TYPE), Ds-U (TYPE) SCALE 1:10



DIMENSIONS

SYMBOLS	B	H	b1	b2	h1	REMARKS
Ds-U(A), Ds-U(A)	300	300	600	700	420	
Ds-U(B), Ds-U(B)	400	400	700	800	520	
Ds-U(C), Ds-U(C)	500	500	800	900	620	

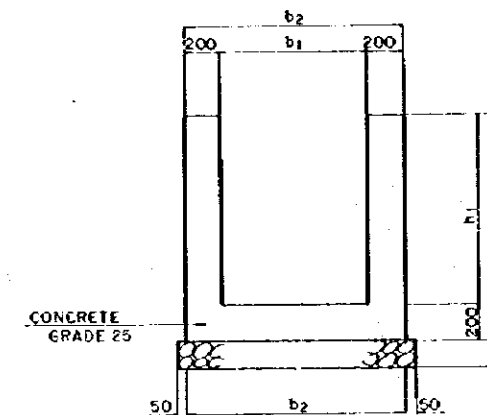
COVER



DIMENSIONS

SYMBOLS	b1	b2	i	j	⊕1	⊕2
Ds-U (A)	600	130	80	180	6-⊕12 x 540	4-⊕12 x 400
Ds-U (B)	700	130	57	160	8-⊕12 x 640	5-⊕12 x 400
Ds-U (C)	800	150	57	185	8-⊕12 x 740	5-⊕12 x 400

Ds-U (TYPE) SCALE 1:20

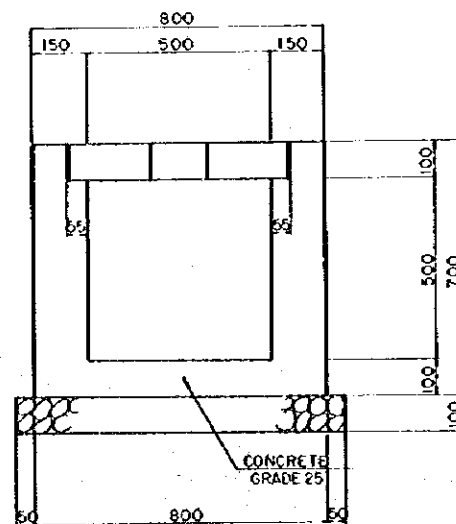


DIMENSIONS

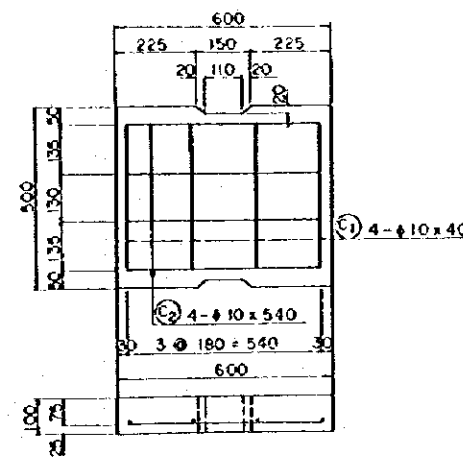
SYMBOLS	b1	b2	h1	h2
Ds-U (D)	800	1200	900	1100
Ds-U (E)	800	1200	1050	1250
Ds-U (F)	800	1200	750	950
Ds-U (G)	1000	1400	500	700
Ds-U (H)	1000	1400	1000	1200

Ds-U (D) SCALE 1:10

SECTION



COVER



REDUCED PLAN

THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS

BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN

HYDRAULIC AND MISCELLANEOUS
STRUCTURES

Ds-Pu AND Ds-Pu (A,B,C) (B1,B2,B3)
Ds-U (D,E,F,G,H) Ds-U (D) Ds-ED
Ds-RS

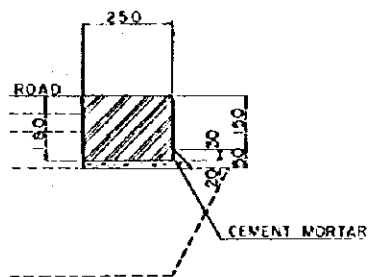
Scale 1:10, 20

SHEET NO.
3/152

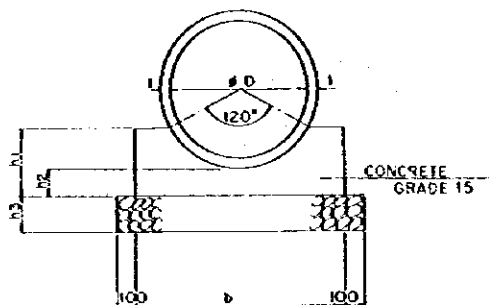
Date: 1980

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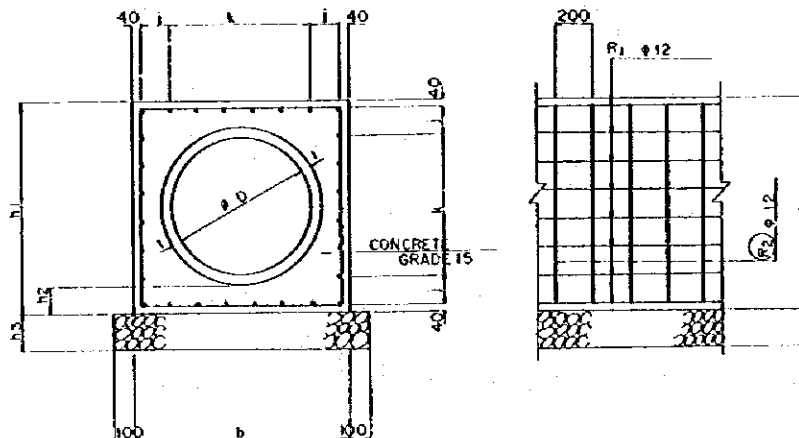
P-C-K (A) SCALE 1:10



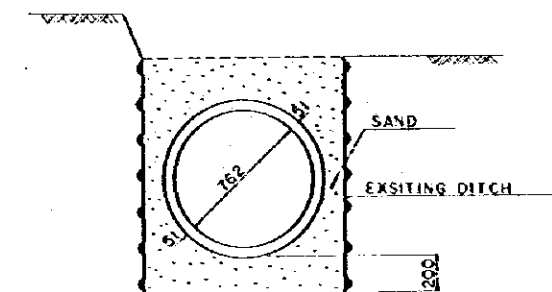
C-P (A) Ø D SCALE 1:20



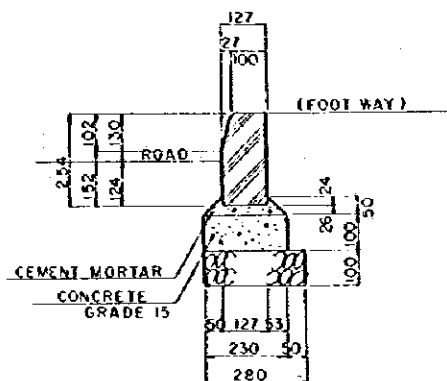
C-P (C) Ø D SCALE 1:20



C-P (D) Ø 0.762 SCALE 1:20



P-C-K (B) SCALE 1:10



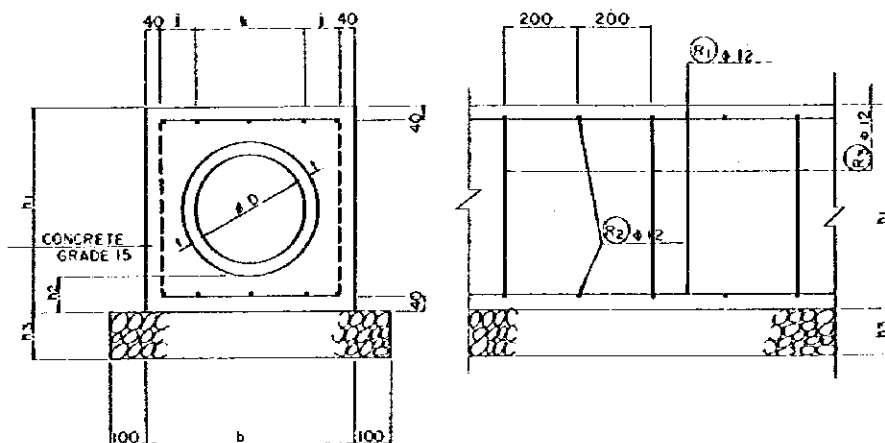
DIMENSIONS

	D	t	b	h ₁	h ₂	h ₃
# 152	152	25	510	200	150	150
# 304	304	33	640	243	150	150
# 380	380	35	760	263	150	150
# 457	457	38	840	283	150	150
# 762	762	51	1170	366	150	200

DIMENSIONS

	D	t	b	h ₁	h ₂	h ₃	j	k	LIST OF BAR PER M	
									R1	R2
# 609	609	44	1000	1000	150	200	160	3 @ 200 = 600	20 - Ø 12 x 1000	10 - Ø 12 x 2 200
# 685	685	44	1080	1080	150	200	200	3 @ 200 = 600	20 - Ø 12 x 1000	10 - Ø 12 x 2 360
# 762	762	51	1170	1170	150	200	145	4 @ 200 = 800	24 - Ø 12 x 1000	10 - Ø 12 x 2 540
# 914	914	57	1430	1430	200	200	175	5 @ 200 = 1000	28 - Ø 12 x 1000	10 - Ø 12 x 3 060

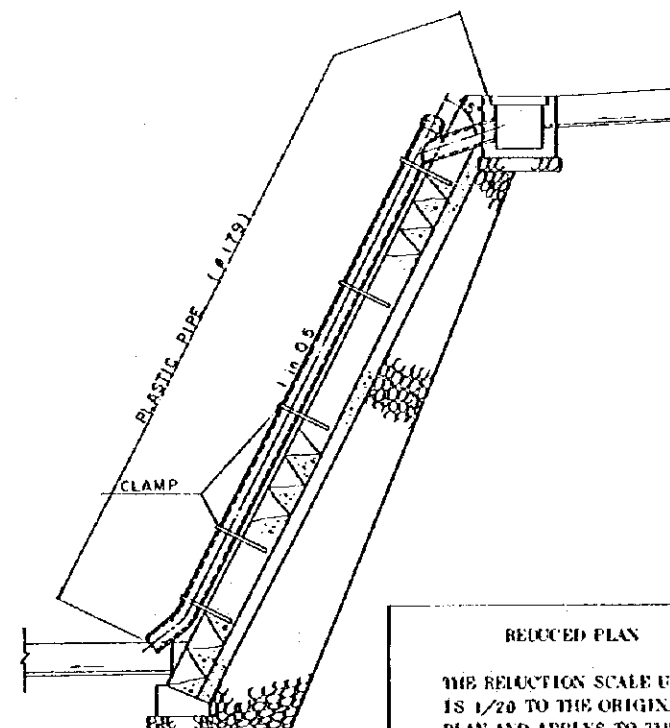
C-P (B) Ø D SCALE 1:10



DIMENSIONS

	D	t	b	h ₁	h ₂	h ₃	j	k	LIST OF BAR PER M		
									R1	R2	R3
# 304	304	33	640	640	150	150	180	200	8 - Ø 12 x 1000	6 - Ø 12 x 590	4 - Ø 12 x 1480
# 380	380	35	760	760	150	150	240	200	8 - Ø 12 x 1000	6 - Ø 12 x 710	4 - Ø 12 x 1720
# 457	457	38	840	840	150	150	180	2 @ 200 = 400	10 - Ø 12 x 1000	6 - Ø 12 x 790	4 - Ø 12 x 1880
# 533	533	41	920	920	150	150	220	2 @ 200 = 400	10 - Ø 12 x 1000	6 - Ø 12 x 870	4 - Ø 12 x 2040

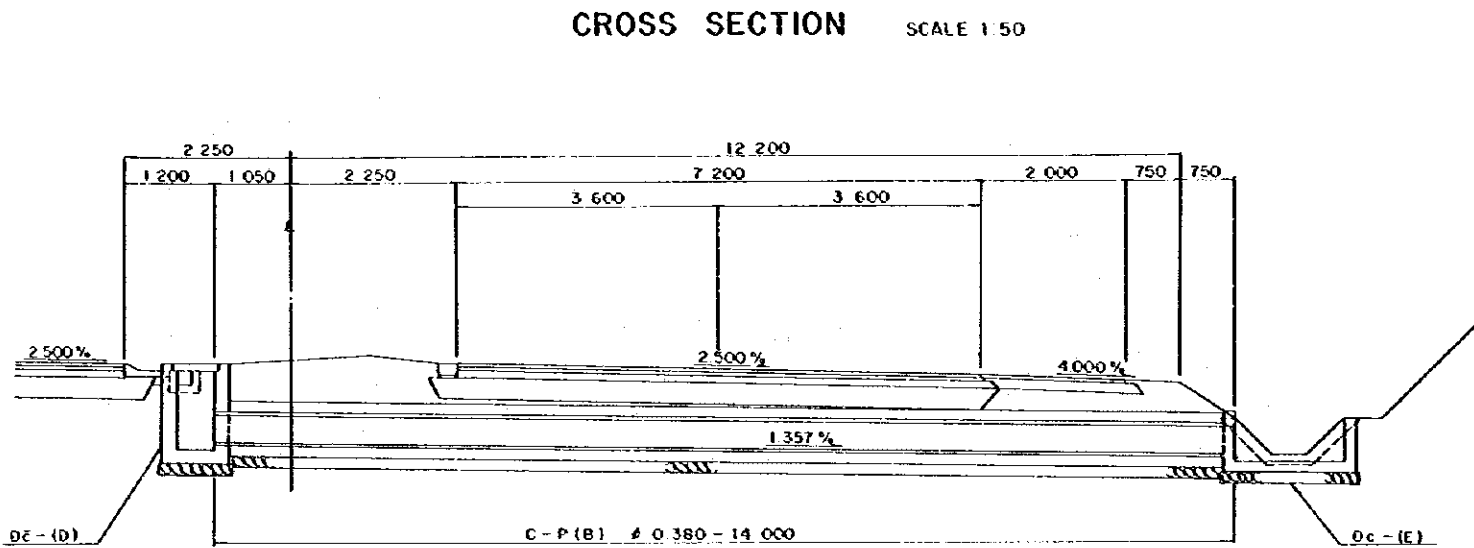
PLASTIC PIPE Ø 0.179 SCALE 1:40



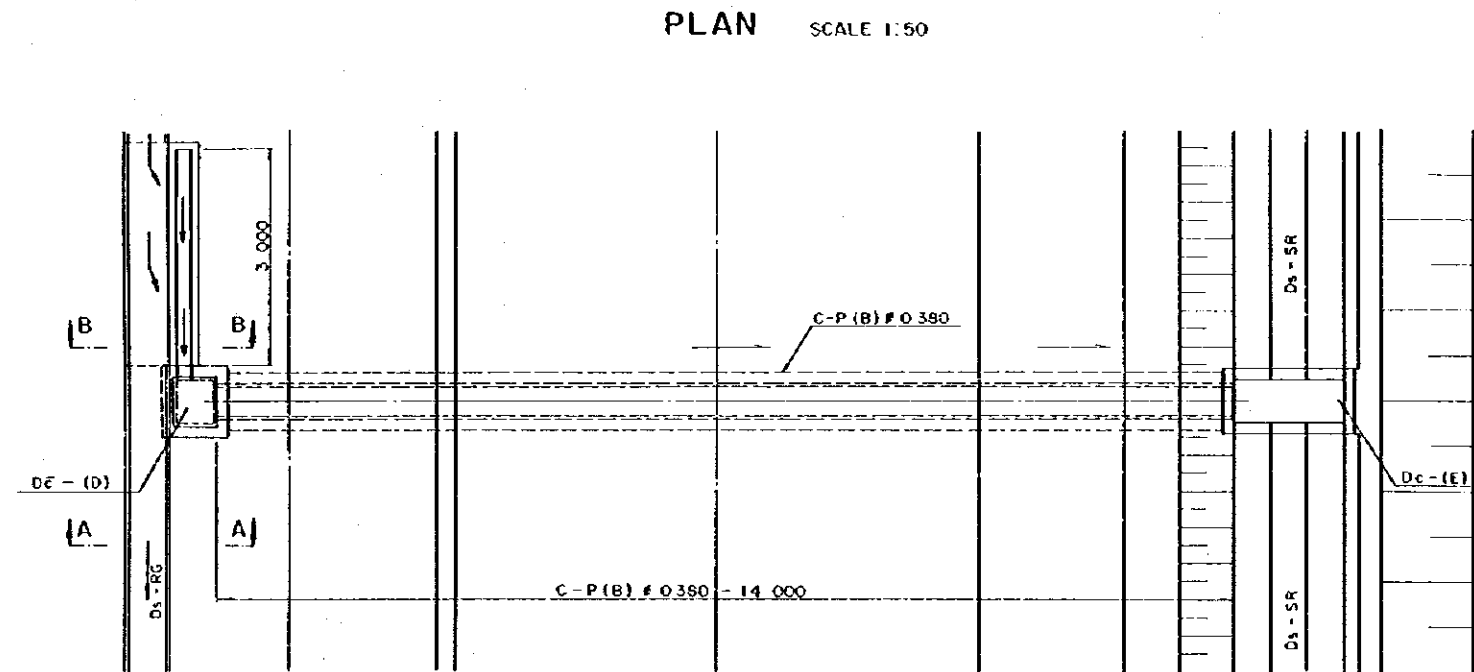
NOTE
THE PIPE SHALL BE BEDDED IN TRENCH CONDITION AND WIDTH OF TRENCH SHALL BE LESS THAN TWO DIAMETER PIPE OR AS DIRECTED BY THE ENGINEER.

REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

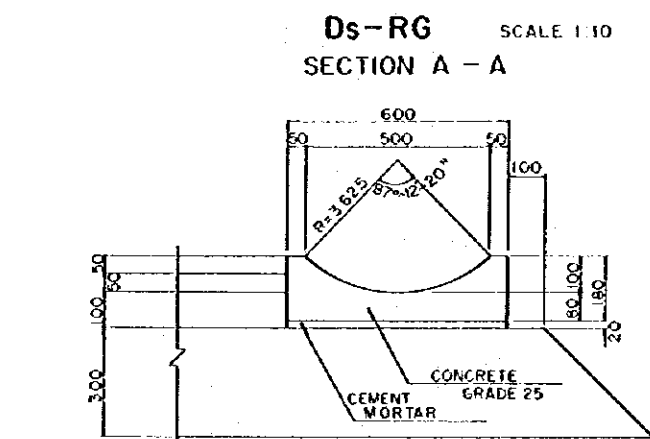
AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
HYDRAULIC AND MISCELLANEOUS STRUCTURS P-C-K (A,B) C-P (A,B,C,D) PLASTIC PIPE	
Scale 1 : 10, 20, 40	SHEET NO. 4/152
Date:	1980
JICA INTERNATIONAL COOPERATION AGENCY	



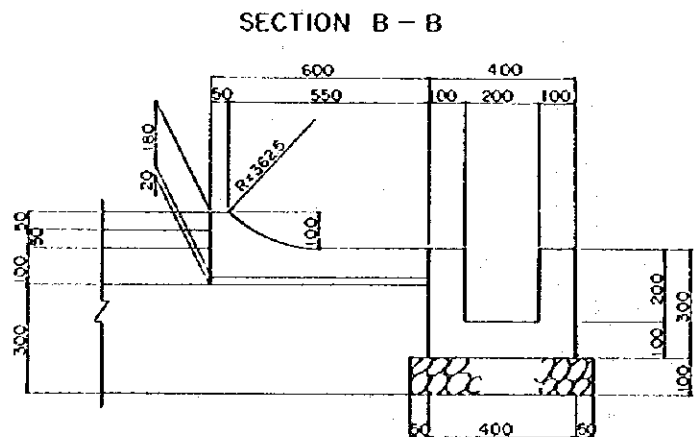
CROSS SECTION SCALE 1:50



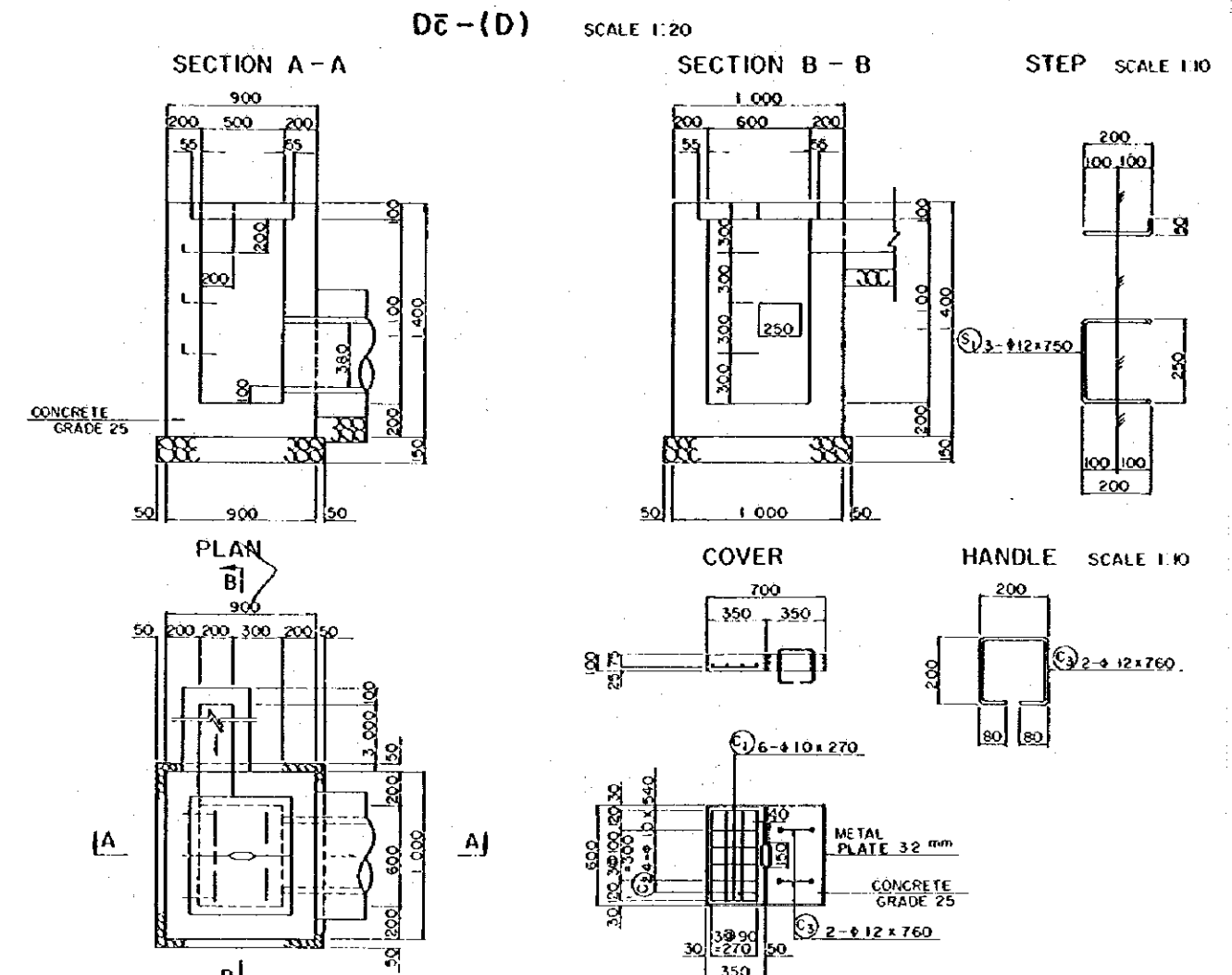
PLAN SCALE 1:50



Ds-RG SCALE 1:10 SECTION A-A



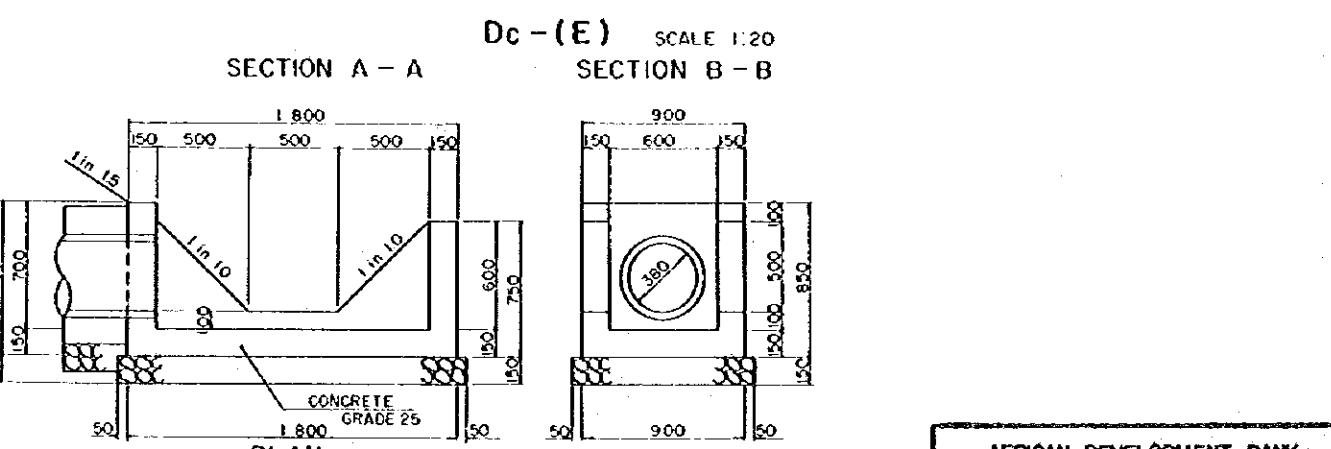
SECTION B-B



Dc-(D)

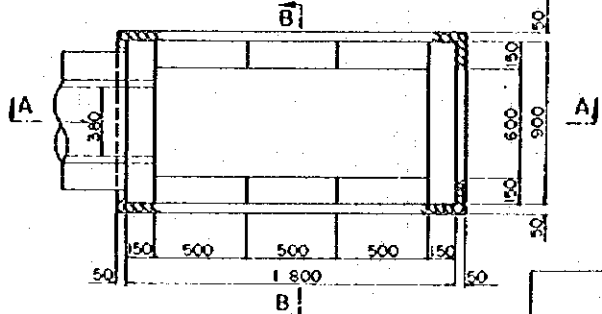
SCALE 1:20

STEP SCALE 1:10



Dc-(E)

SCALE 1:20



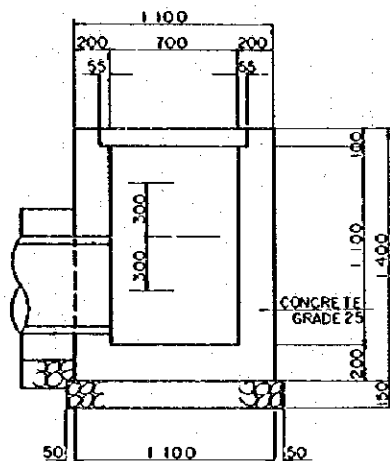
REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
HYDRAULIC AND MISCELLANEOUS STRUCTURES	
Ds-RG Dc-(D) Dc-(E)	
Scale 1:10, 20, 50	SHEET NO. 6/152
Date:	1980
JAPAN INTERNATIONAL COOPERATION AGENCY	

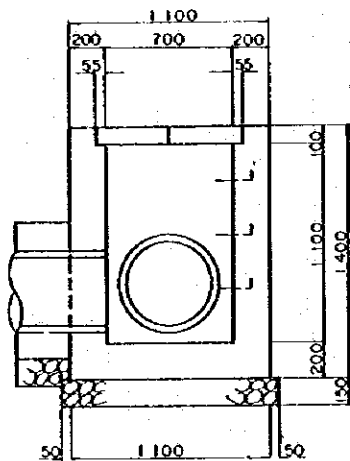
D \bar{c} -(K) SCALE 1:20

D c -(L) SCALE 1:20

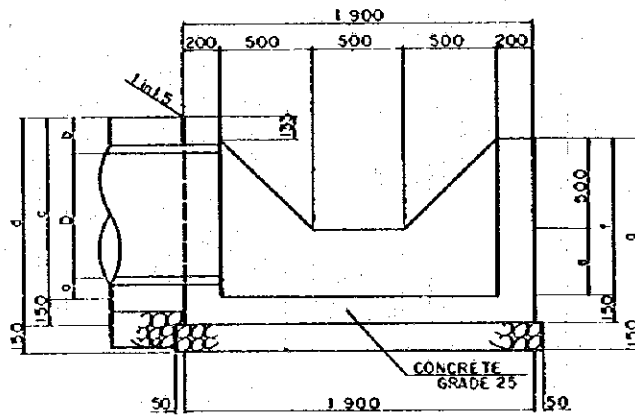
SECTION A-A



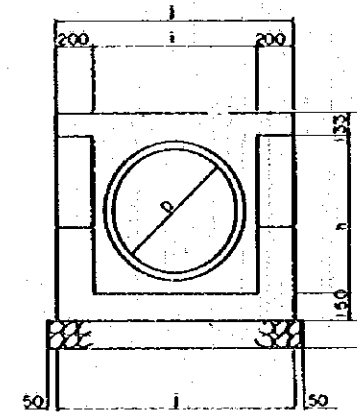
SECTION B-B



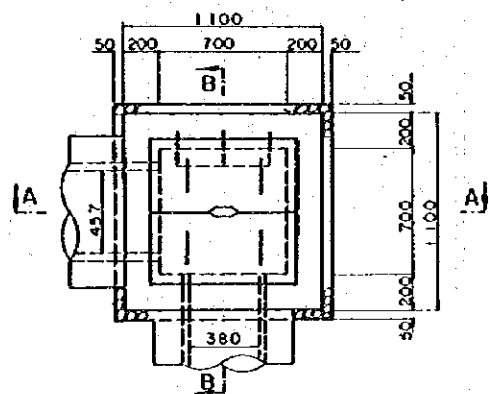
SECTION A-A



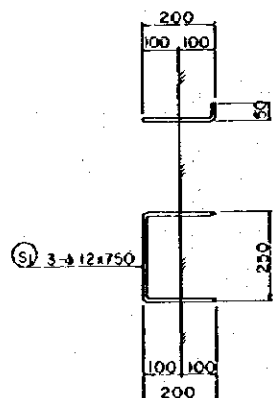
SECTION B-B



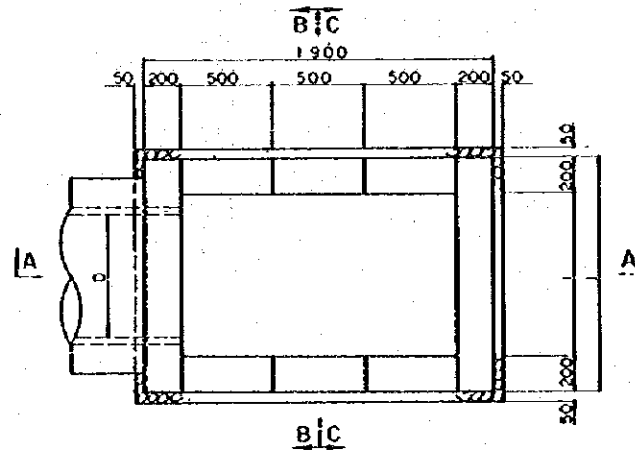
PLAN



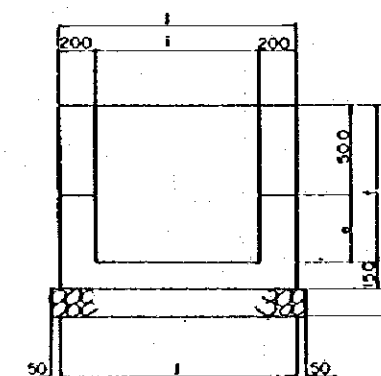
STEP SCALE 1:10



PLAN



SECTION C-C



DIMENSIONS

SYMBOLS	PIPE	D	a	b	c	d	e	f	g	h	i	j
D c - (L $_1$)	C-RB) # 0457	457	148	195	800	950	167	667	817	667	700	1100
D c - (L $_2$)	C-RB) # 0535	535	171	196	900	1050	167	767	917	767	800	1200
D c - (L $_3$)	C-PC) # 0762	762	131	207	1100	1250	467	967	1117	967	1000	1400

REDUCED PLAN

THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS

BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN

HYDRAULIC AND MISCELLANEOUS
STRUCTURES

D \bar{c} -(K) D c -(L)

Scale 1:20

SHEET NO.
9/52

Date:

1960

JAPAN INTERNATIONAL COOPERATION AGENCY

Dc-(M) SCALE 1:20

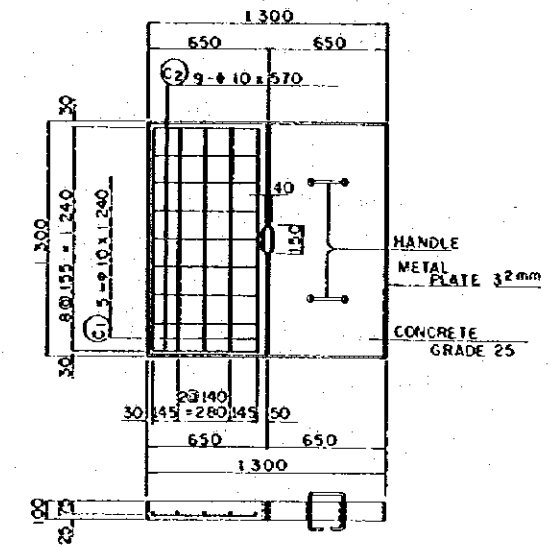
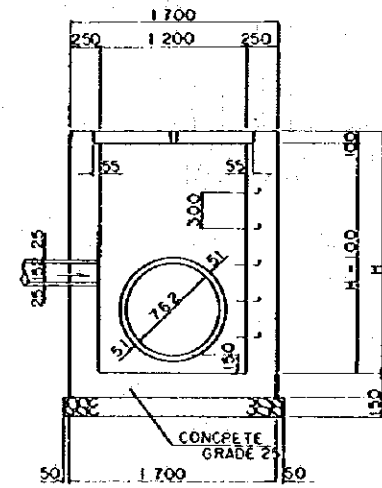
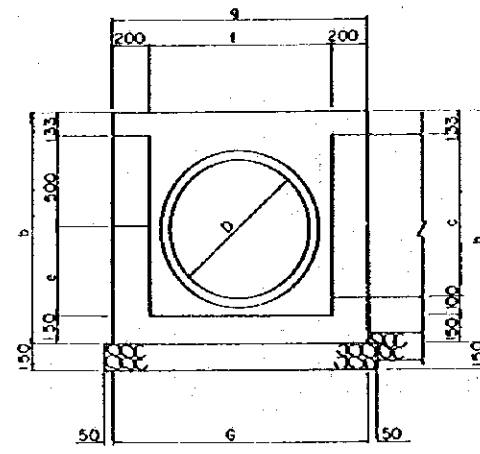
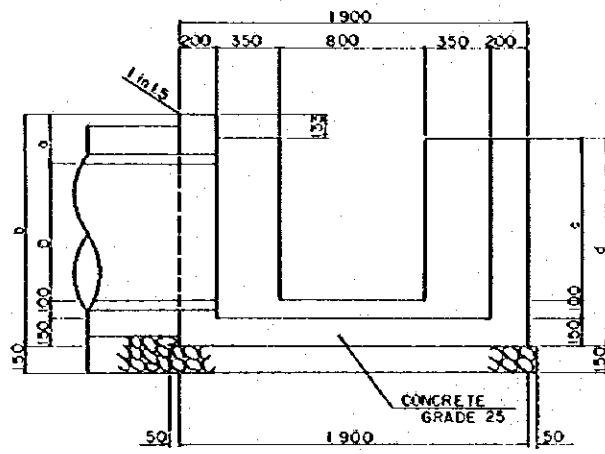
DĒ-(N) SCALE 1:30

SECTION A - A

SECTION B - B

SECTION A - A

COVER SCALE 1:20

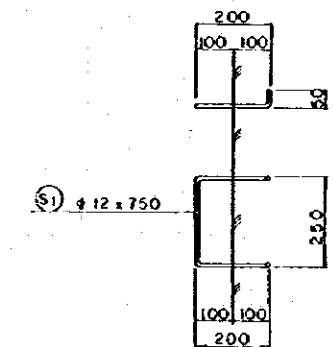
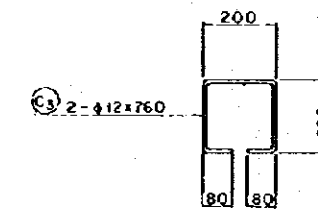
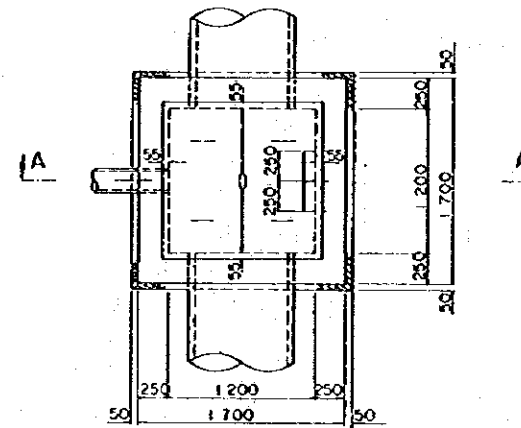
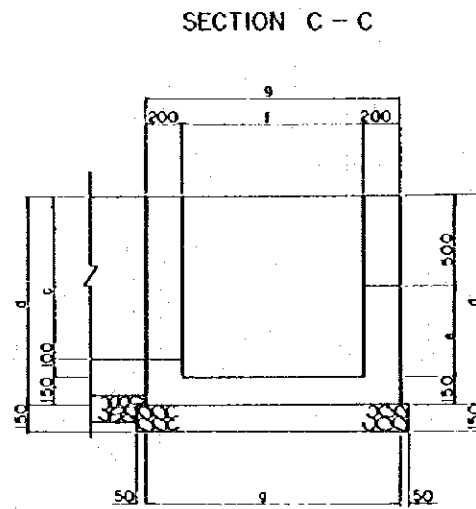
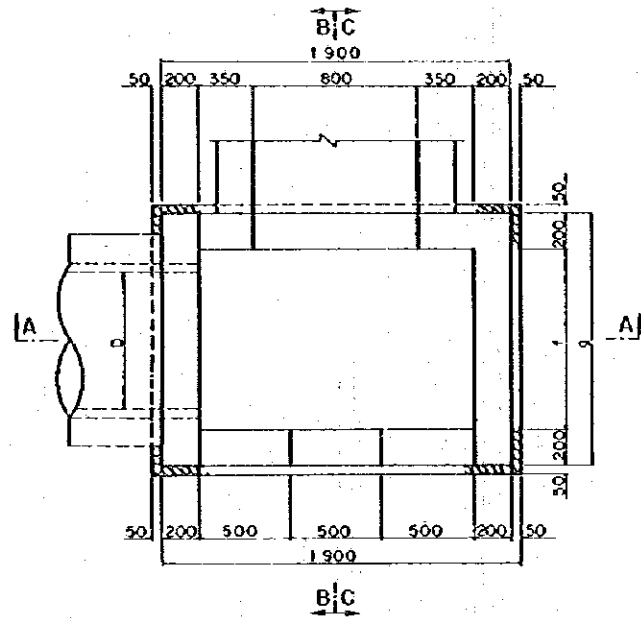


PLAN

PLAN

HANDLE SCALE 1:10

STEP SCALE 1:10



DIMENSIONS

SYMBOLS	PIPE	D	a	b	c	d	e	f	g
Dc - (M1)	C-PC) # 0762	762	271	1283	900	1150	500	1000	1400
Dc - (M2)	C-PC) # 0914	914	269	1433	1050	1300	650	1200	1600

DIMENSIONS

SYMBOLS	H
DĒ - (N1)	1900
DĒ - (N2)	2100
DĒ - (N3)	2300

REDUCED PLAN

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AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS

BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN

HYDRAULIC AND MISCELLANEOUS
STRUCTURES

Dc-(M) DĒ-(N)

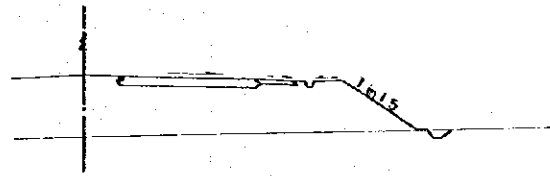
Scale 1:20,30

SHEET NO.
10/152

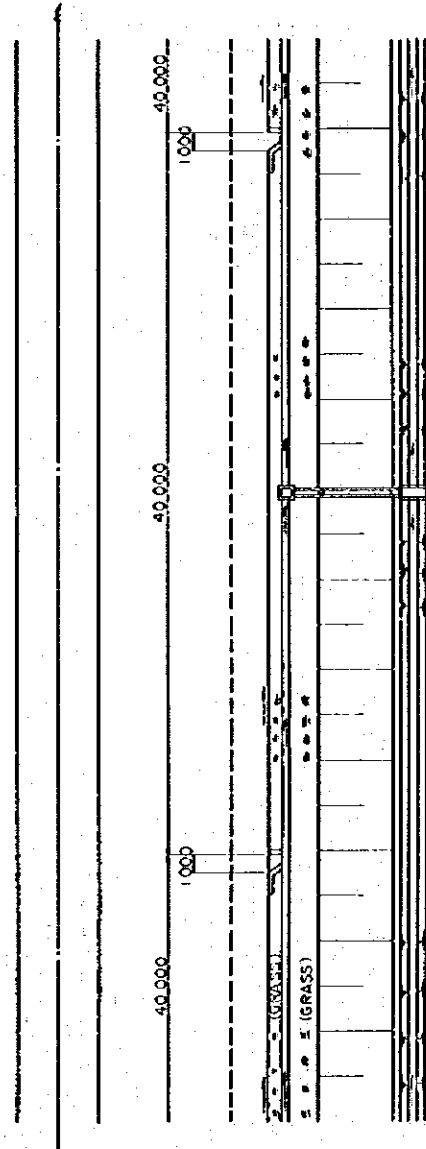
Date: 1980

JAPAN INTERNATIONAL COOPERATION AGENCY

CROSS SECTION SCALE 1:200

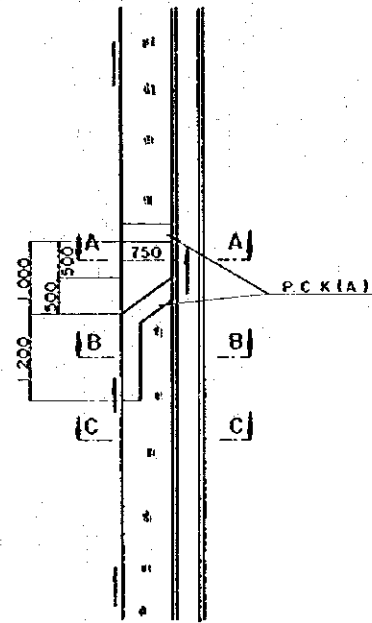


PLAN SCALE 1:200

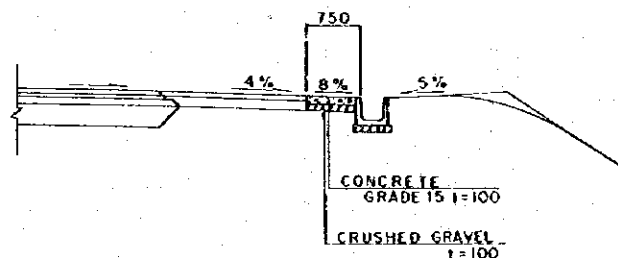


Si SCALE 1:50

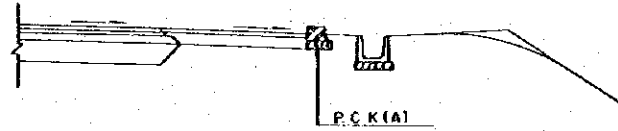
PLAN



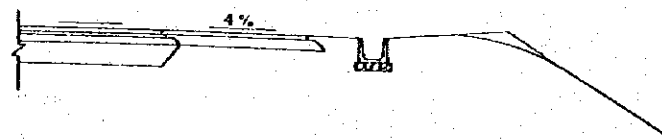
SECTION A - A SCALE 1:50



SECTION B - B

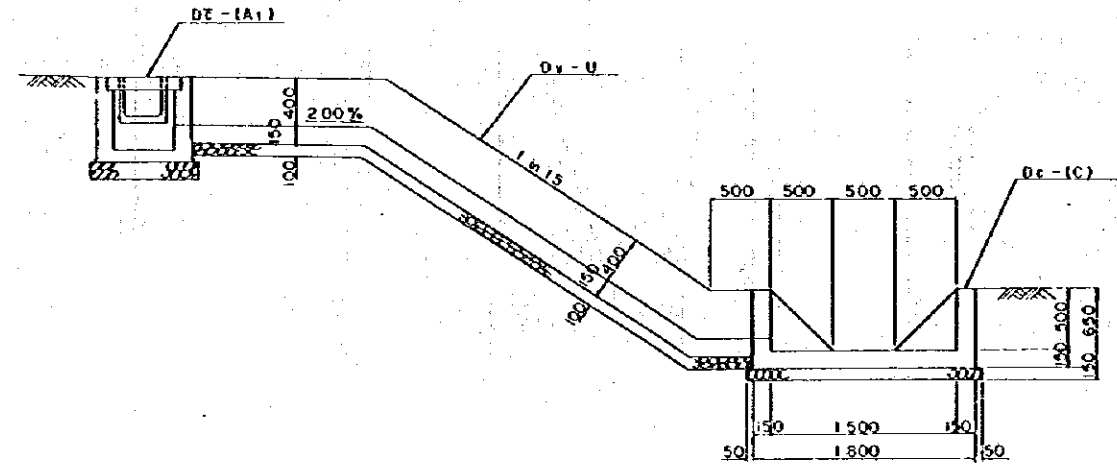


SECTION C - C

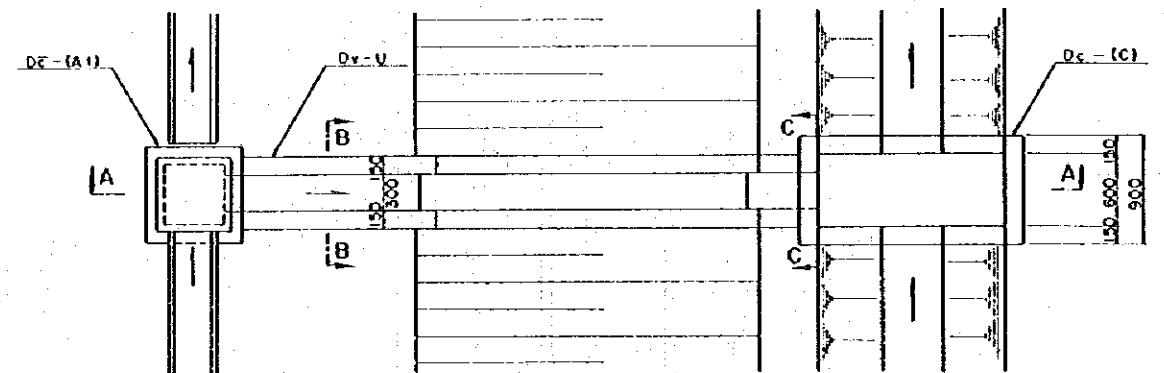


Dv-U

SECTION A - A SCALE 1:30

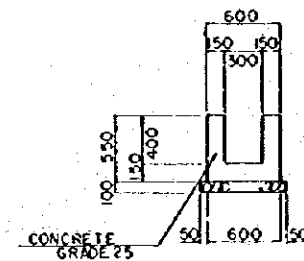


PLAN SCALE 1:30

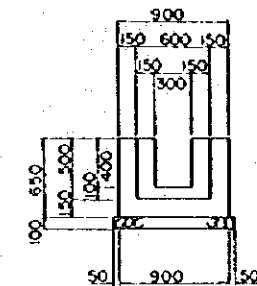


Dv-U SCALE 1:30

SECTION B - B



SECTION C - C

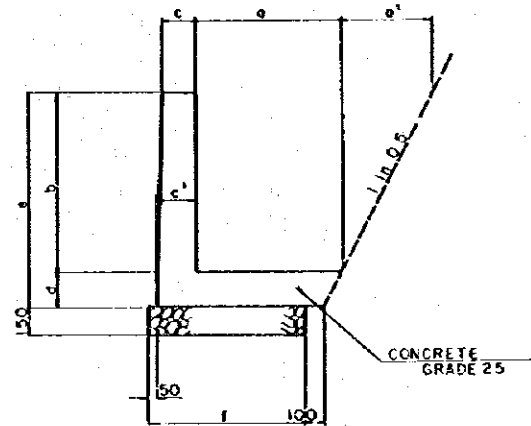


REDUCED PLAN

THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
HYDRAULIC AND MISCELLANEOUS STRUCTURES	
Si Dv-U	
Scale 1:30, 50, 200	SHEET NO. 11/152
Date:	1980
JAPAN INTERNATIONAL COOPERATION AGENCY	

Ds-L (TYPE) SCALE 1:20

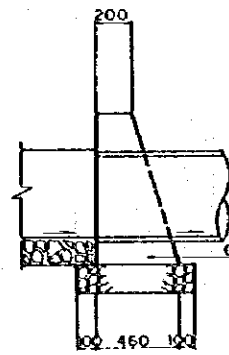


DIMENSIONS

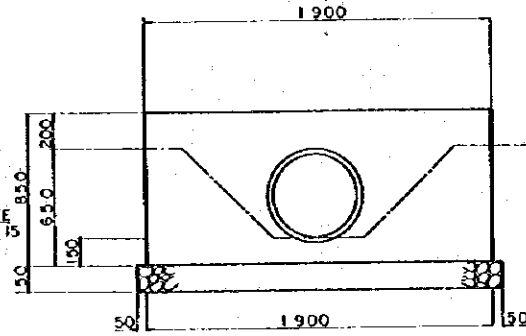
SYMBOLS	a	a'	b	c	c'	d	e	f
Ds - L (A)	400	250	500	120	150	150	650	425
Ds - L (B)	500	350	700	150	180	150	850	555
Ds - L (C)	600	400	800	150	180	150	950	655
Ds - L (D)	800	500	1000	180	210	200	1200	860

Hw-(A) SCALE 1:20

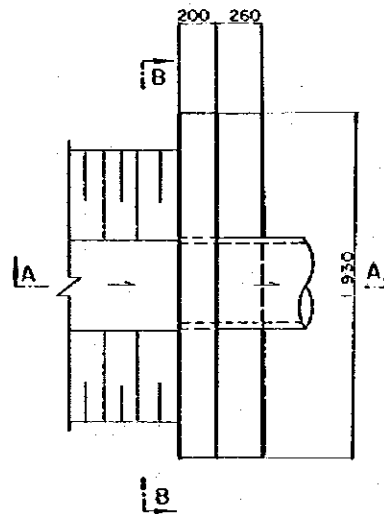
SECTION A - A



SECTION B - B

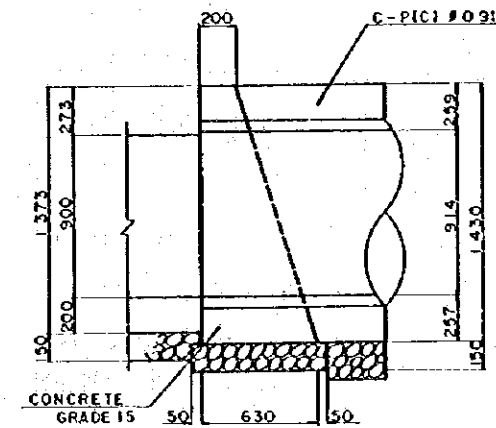


PLAN

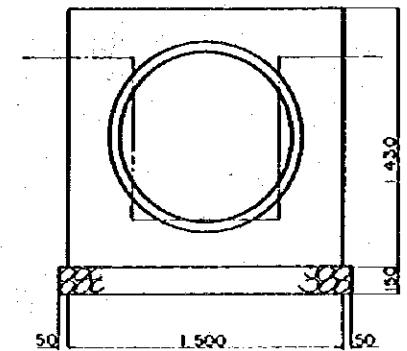


Hw-(B) SCALE 1:20

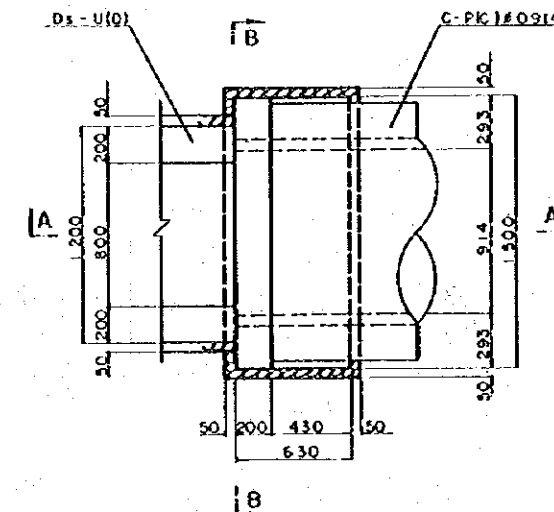
SECTION A - A



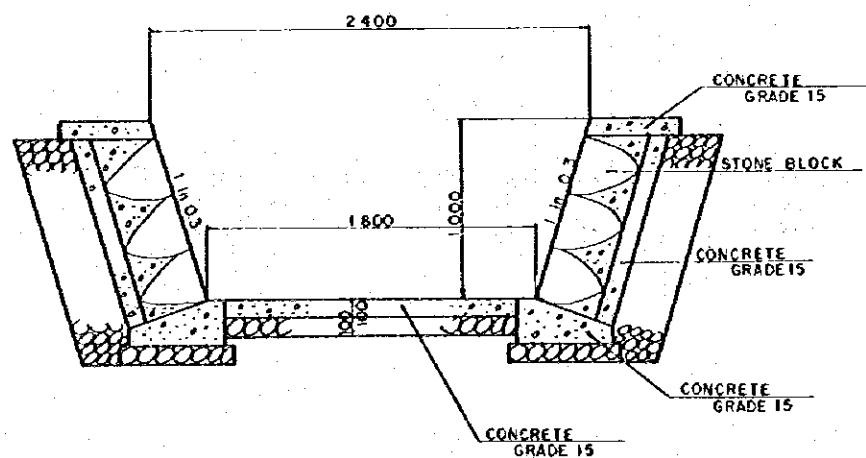
SECTION B - B



PLAN



RL-Ww SCALE 1:20

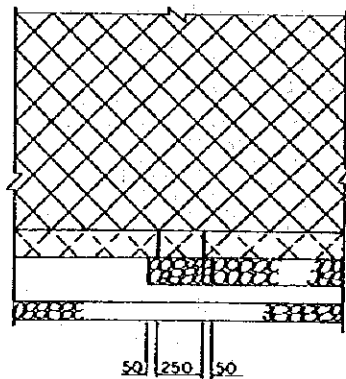


REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

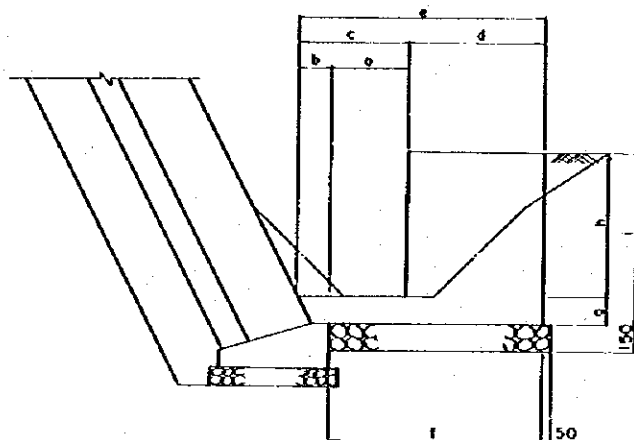
AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
HYDRAULIC AND MISCELLANEOUS STRUCTURES	
Ds-L (A,B,C,D) Hw-(A,B) RL-Ww	
Scale 1:20	SHEET NO. 12/152
Date:	1960
JAPAN INTERNATIONAL COOPERATION AGENCY	

Hw-(C) SCALE 1:20

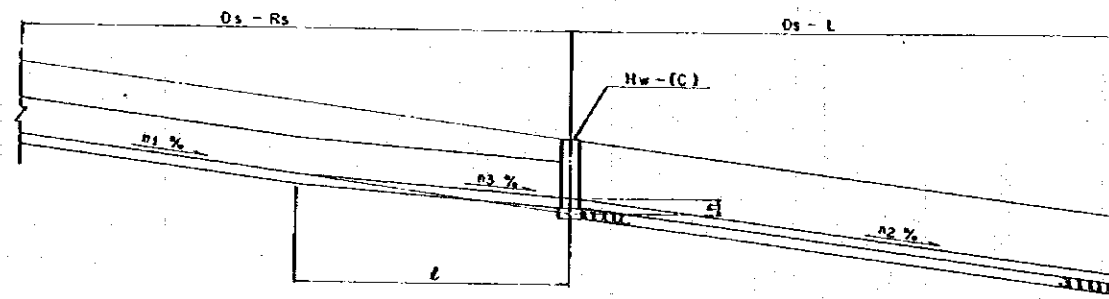
SECTION A - A



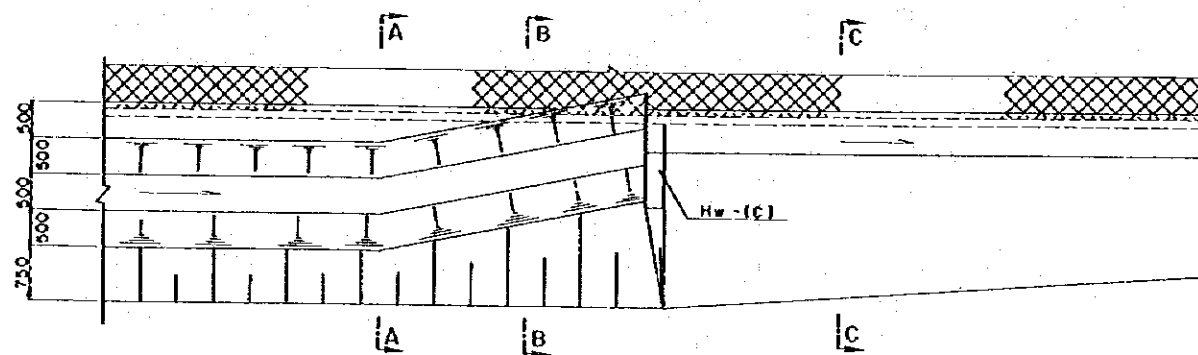
SECTION C - C



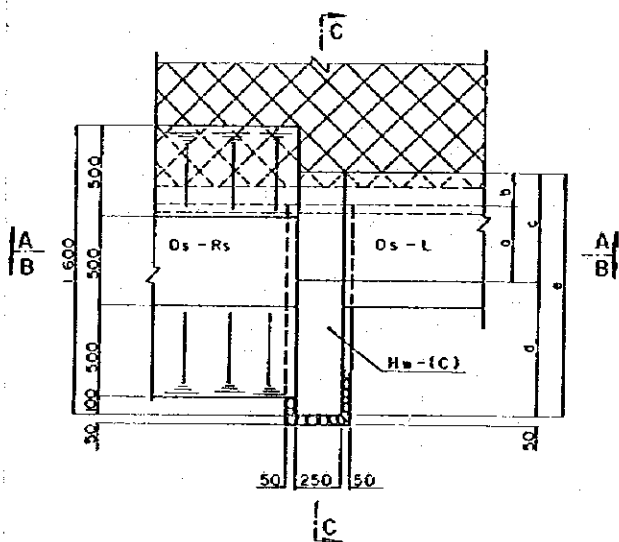
CROSS SECTION SCALE 1:50



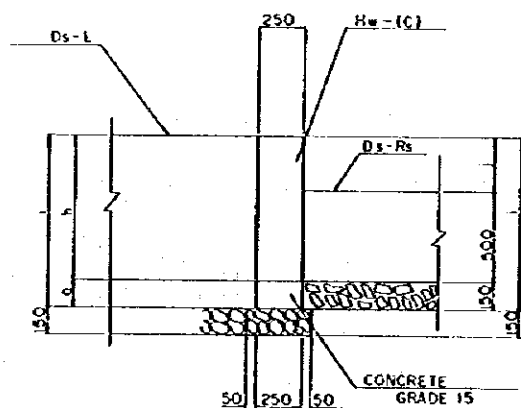
PLAN SCALE 1:50



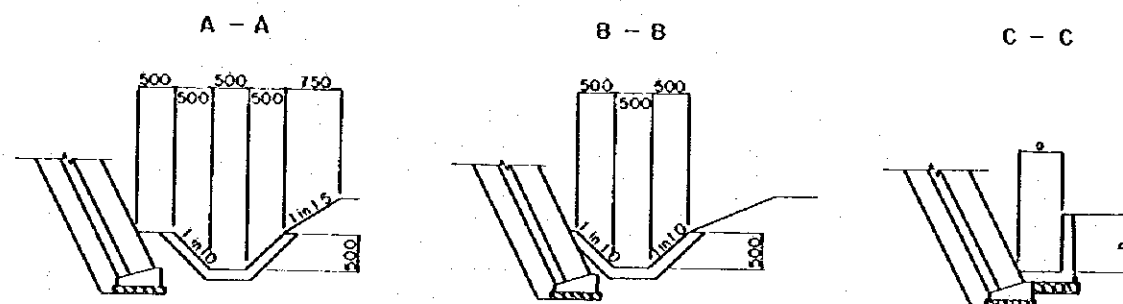
PLAN



SECTION B - B



SECTION SCALE 1:50



DIMENSIONS

SYMBOLS	a	b	c	d	e	f	g	h	i	j
Hw - (C1)	240	175	400	950	1350	1175	150	500	650	0
Hw - (C2)	325	175	500	850	1350	1175	150	700	850	200
Hw - (C3)	425	175	600	750	1350	1175	150	800	950	300

DIMENSIONS

	a	b	b (m)	f (m)	n1 (%)	n2 (%)	n3 (%)	REMARKS
C156+90 ~ 57+20(L)	400	500	0.50	30	2.145	2.145	0.478	
C157+00 ~ 57+20(R)	500	700	0.30	20	2.145	2.145	0.645	
M1-M26+60 ~ 7+60(L)	600	800	0.20	100	0.300	0.300	0.100	
M1-M26+80 ~ 7+20(R)	600	800	0.20	100	0.300	0.300	0.100	

REDUCED PLAN

THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS

BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN

HYDRAULIC AND MISCELLANEOUS
STRUCTURES

Hw-(C)

Scale 1:20,60

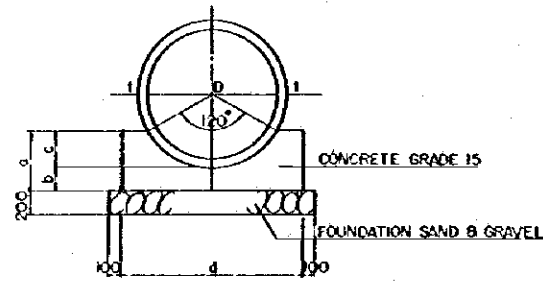
SHEET NO.
13/152

Date: 1990

JAPAN INTERNATIONAL COOPERATION AGENCY

DETAIL OF PIPE CULVERT

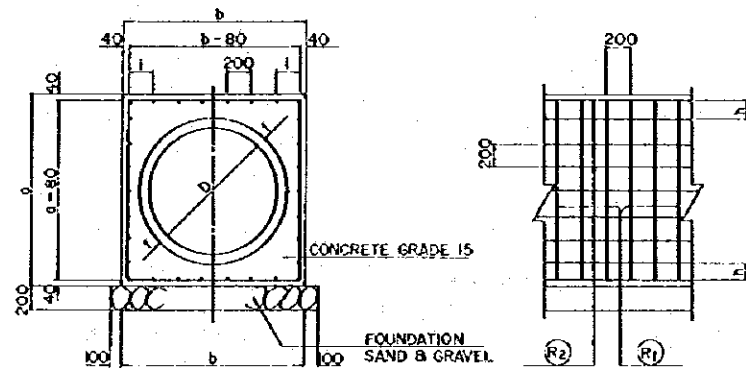
TYPE - A



DIMENSIONS

D	t	a	b	c	d
1066	67	500	200	300	1500
762	51	366	150	216	1170

TYPE - C



DIMENSIONS

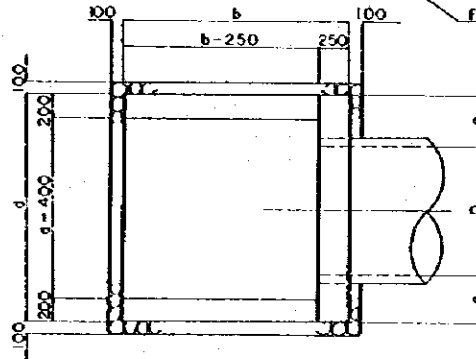
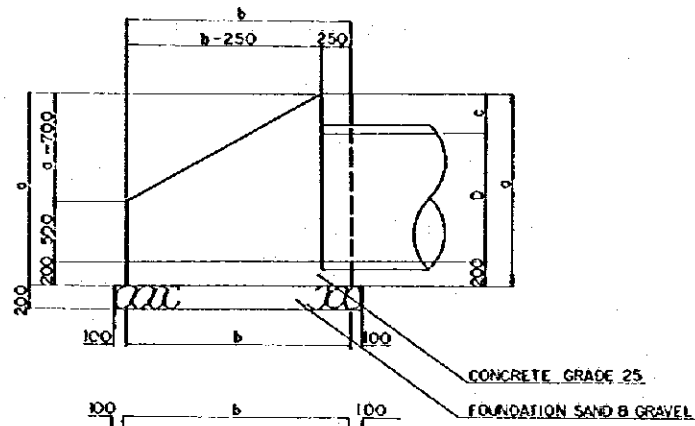
D	t	a	b
1066	67	1600	1600
762	51	1170	1170

REINFORCEMENT BAR

D	PER M		b	t
	R1	R2		
1066	10-#12 x 3400	32-#12 x 1000	160	160
762	10-#12 x 2540	24-#12 x 1000	145	145

DETAIL OF INLET OR OUTLET

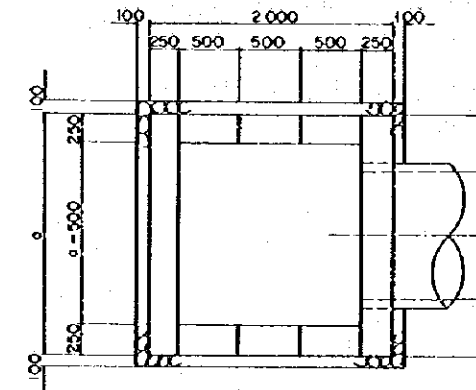
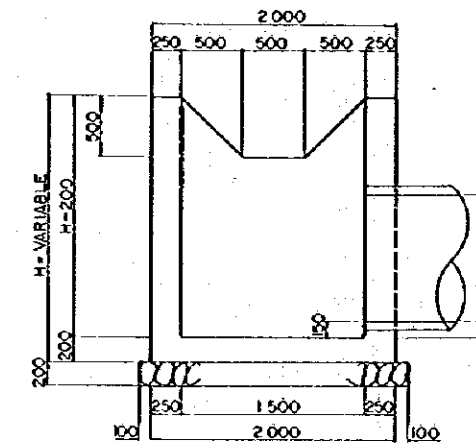
TYPE - A



DIMENSIONS

D	a	b	c	d	e
1066	1600	1850	334	1900	417
762	1300	1400	338	1600	419

TYPE - C



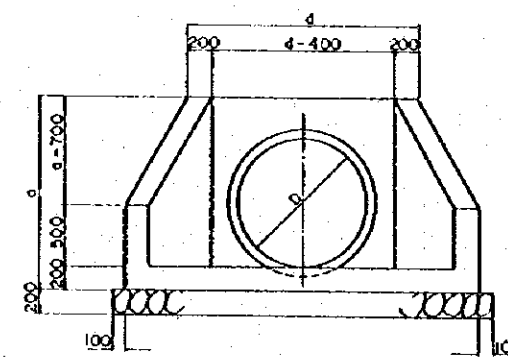
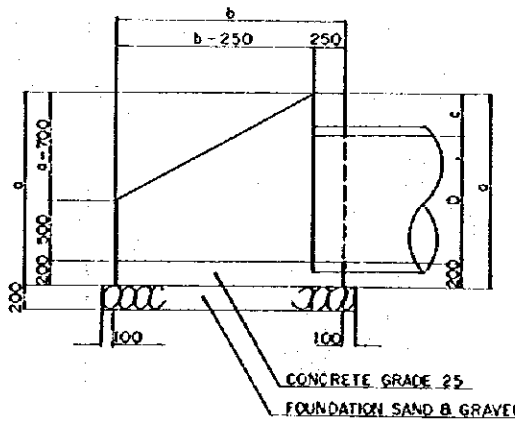
DIMENSIONS

D	a	b
1066	2000	467
762	1700	469

REDUCED PLAN

THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

TYPE - B



DIMENSIONS

D	a	b	c	d	e	f
1066	1600	1850	334	1900	2900	1744
762	1300	1400	338	1600	2600	1444

AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS
BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN

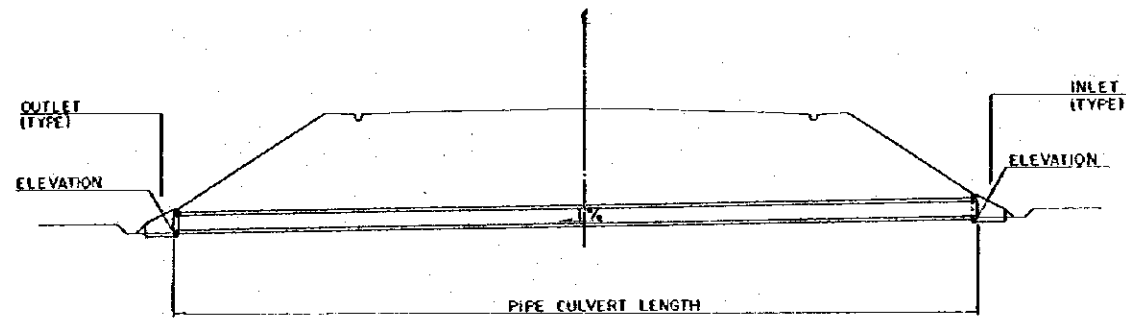
HYDRAULIC
AND
MISCELLANEOUS STRUCTURES
PIPE CULVERT

Scale 1:30 SHEET NO. 14/152

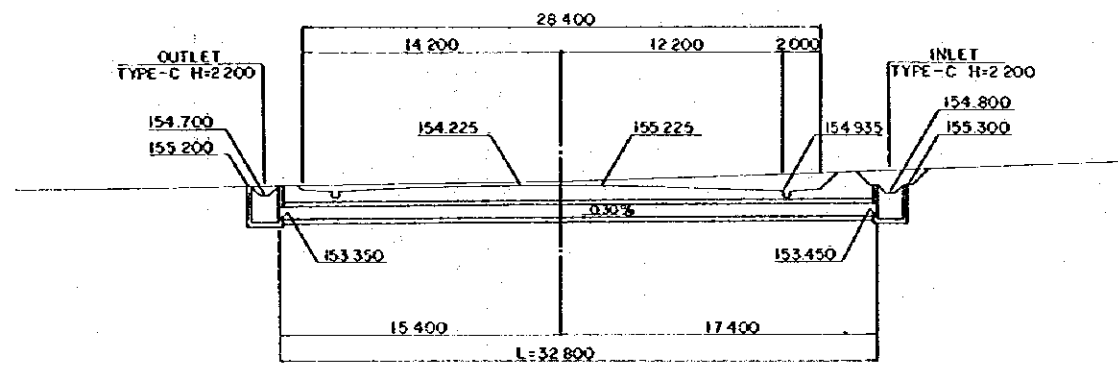
Date: 1980
JAPAN INTERNATIONAL COOPERATION AGENCY

PIPE CULVERT

PROFILE



STA. 19 + 35.00



DIMENSIONS

STATION	PIPE CULVERT			INLET		OUTLET	
	TYPE	Ø	LENGTH	TYPE	REMARKS	TYPE	REMARKS
STA. 3+95.00	C	1.066	34.50	B		B	
STA. 5+45.00	A	0.762	33.00	A		A	
STA. 8+48.00	A	0.762	40.00	B		B	
STA. 13+18.00	A	1.066	49.00	A		A	
STA. 15+92.00	A	0.762	37.00	B		A	
STA. 16+45.00	A	0.762	36.50	B		B	
STA. 17+33.00	C	0.762	30.50	C	H=1.400	A	
STA. 18+33.50	A	0.762	34.50	C	H=1.400	A	
STA. 19+35.00	C	0.762	32.80	C	H=2.200	C	H=2.200
STA. 25+53.00	C	1.066	52.50	C	H=1.600	B	
STA. 25+60.00 ~ STA. 26+0.00	A	0.762	44.00	B		B	
STA. 28+7.00	A	0.762	36.00	B		B	
STA. 30+90.00	A	0.762	35.00	A		A	
STA. 34+30.00	A	0.762	34.00	C	H=1.600	A	
STA. 44+80.00	A	0.762	38.00	B		B	
STA. 46+44.00	C	1.066	47.00	C	H=1.900	C	H=1.900
ACCESS ROAD STA. 3+80.00	A	0.762	29.00	B		B	

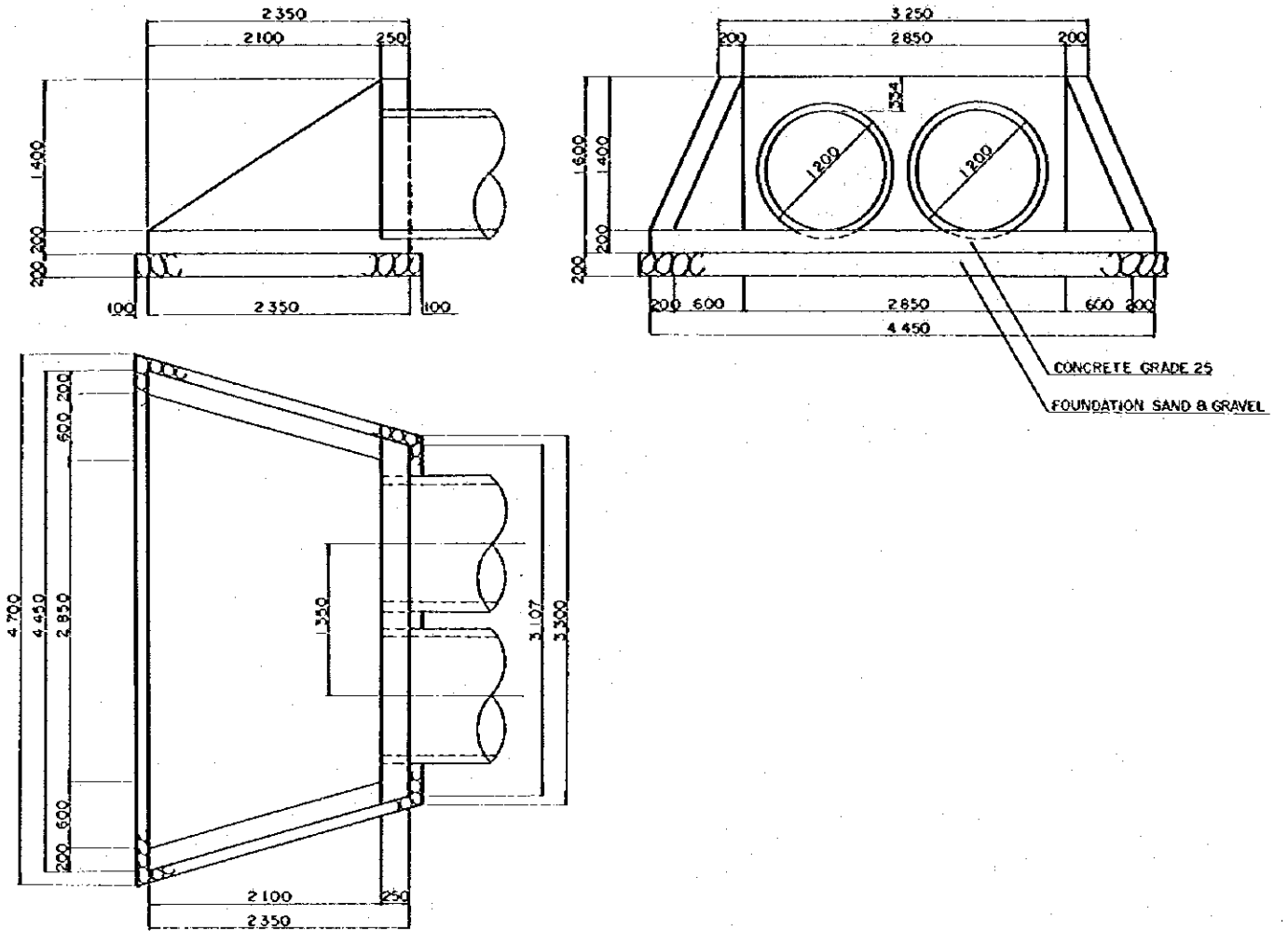
NOTE BOTH SETTING HEIGHTS OF INLET AND OUTLET SHALL BE DECIDED ON THE SITE BY THE CONTRACTOR AND SHALL BE APPROVED BY THE ENGINEER.

REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

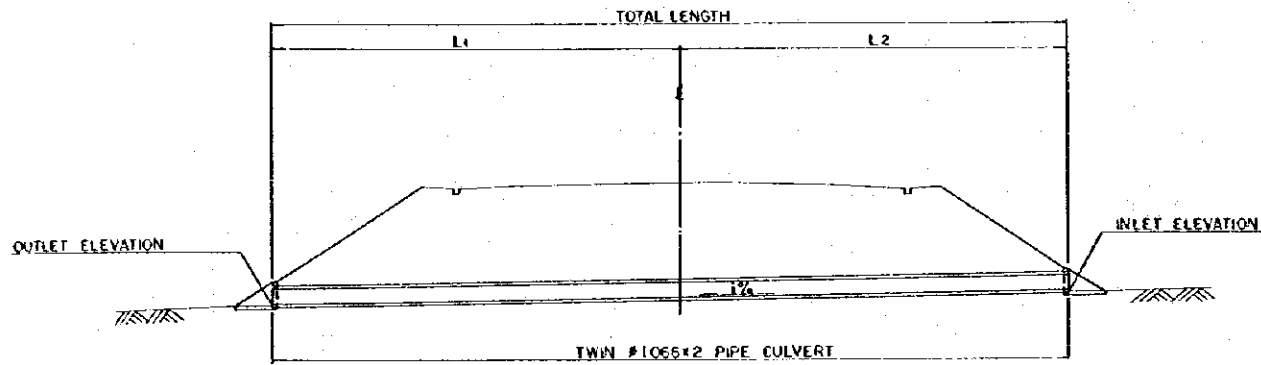
AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
HYDRAULIC AND MISCELLANEOUS STRUCTURE PIPE CULVERT	
Scale 1 : 200	SHEET NO. 15/152
Date:	1980
JAPAN INTERNATIONAL COOPERATION AGENCY	

TWIN Ø1066 x 2 PIPE CULVERT

DETAIL OF INLET SCALE 1:30



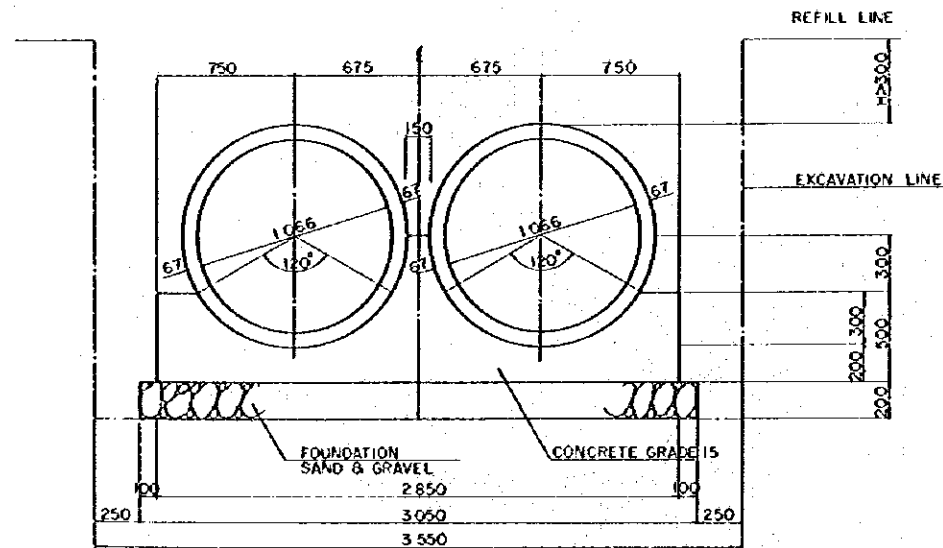
PROFILE



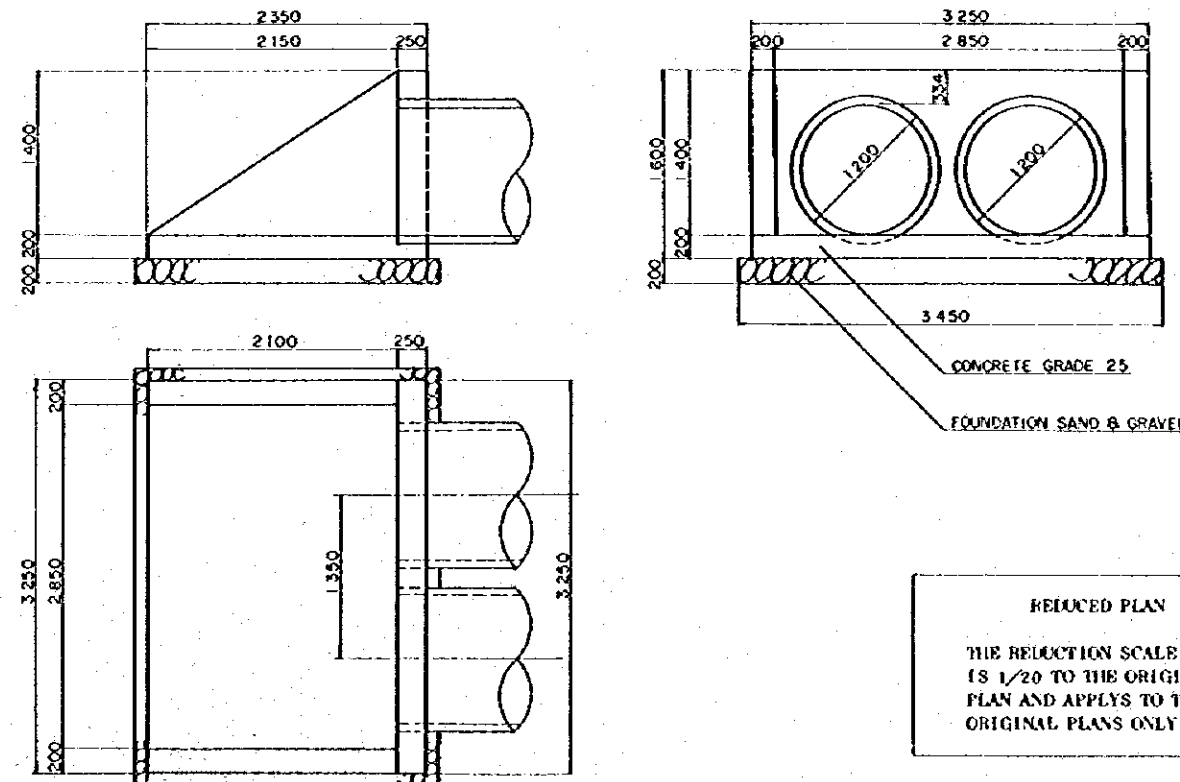
DIMENSIONS

STATION	INTERSECTION ANGLE	GRADE	L1	L2	TOTAL LENGTH	INLET ELEVATION	OUTLET ELEVATION
STA 36 + 25.50	L 66°-00'	4.95%	28.00	22.50	50.50	85.00	82.50
STA 39 + 33.00	R 84°-00'	2.00%	22.00	20.50	42.50	76.50	75.65

TYPICAL CROSS SECTION SCALE 1:20



DETAIL OF OUTLET SCALE 1:30



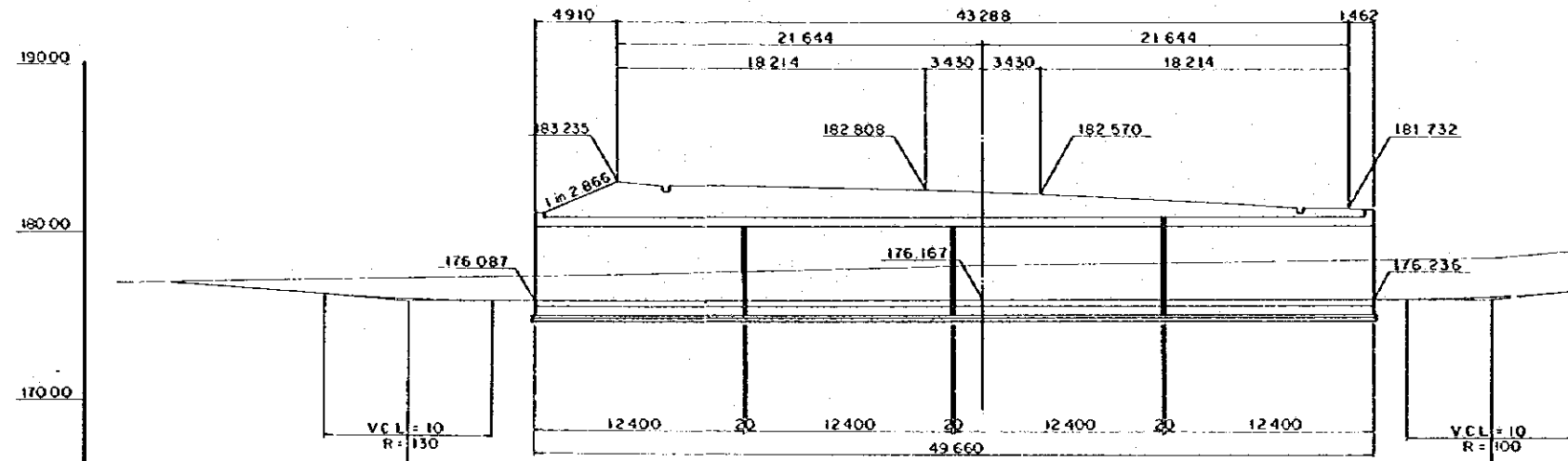
REDUCED PLAN

THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
HYDRAULIC AND MISCELLANEOUS STRUCTURE TWIN PIPE	
Scale 1 : 200, 20, 30	SHEET NO. 16/152
Date:	1990
JAPAN INTERNATIONAL COOPERATION AGENCY	

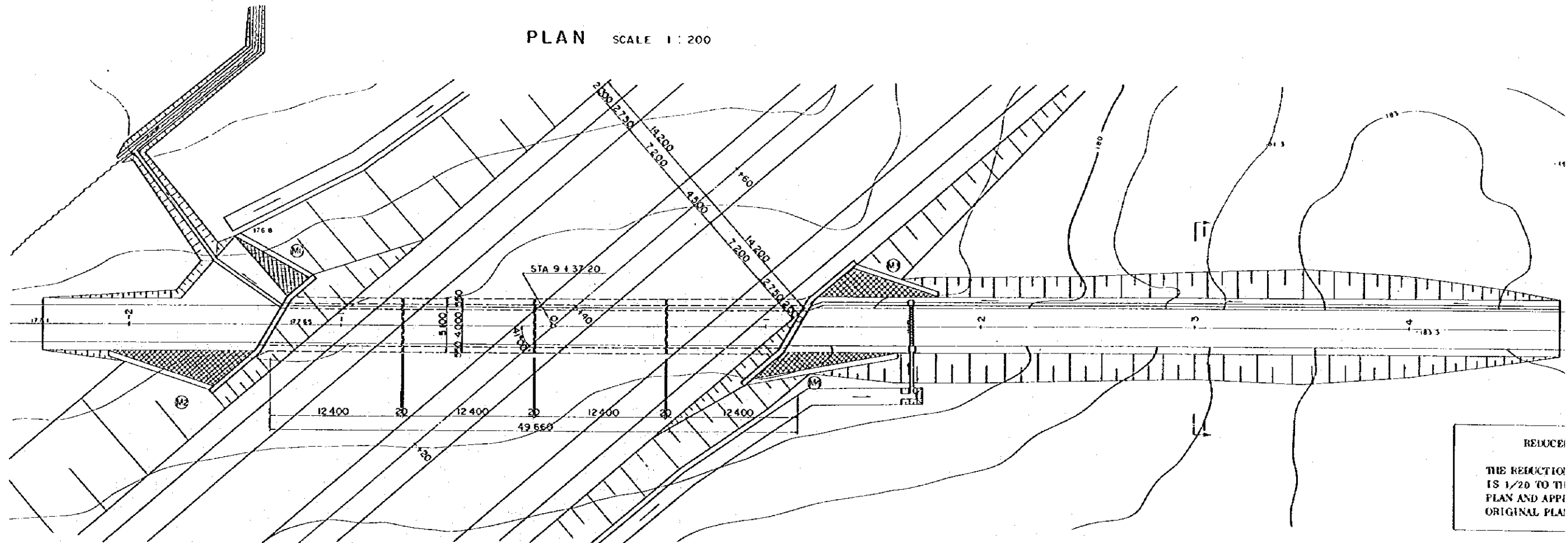
STA. 9 + 37.20 C-Bx 4.00x4.80x49.66 R 41°

PROFILE SCALE 1 : 200



GRADE	177.100	176.060	176.257	182.657
PROPOSED HEIGHT	177.100	176.509	176.167	179.257
GROUND HEIGHT	177.10	177.30	178.30	183.50
DISTANCE	8.000	13.446	6.554	20.000
STATION	+8.00	+14.00	+20.00	+40.00

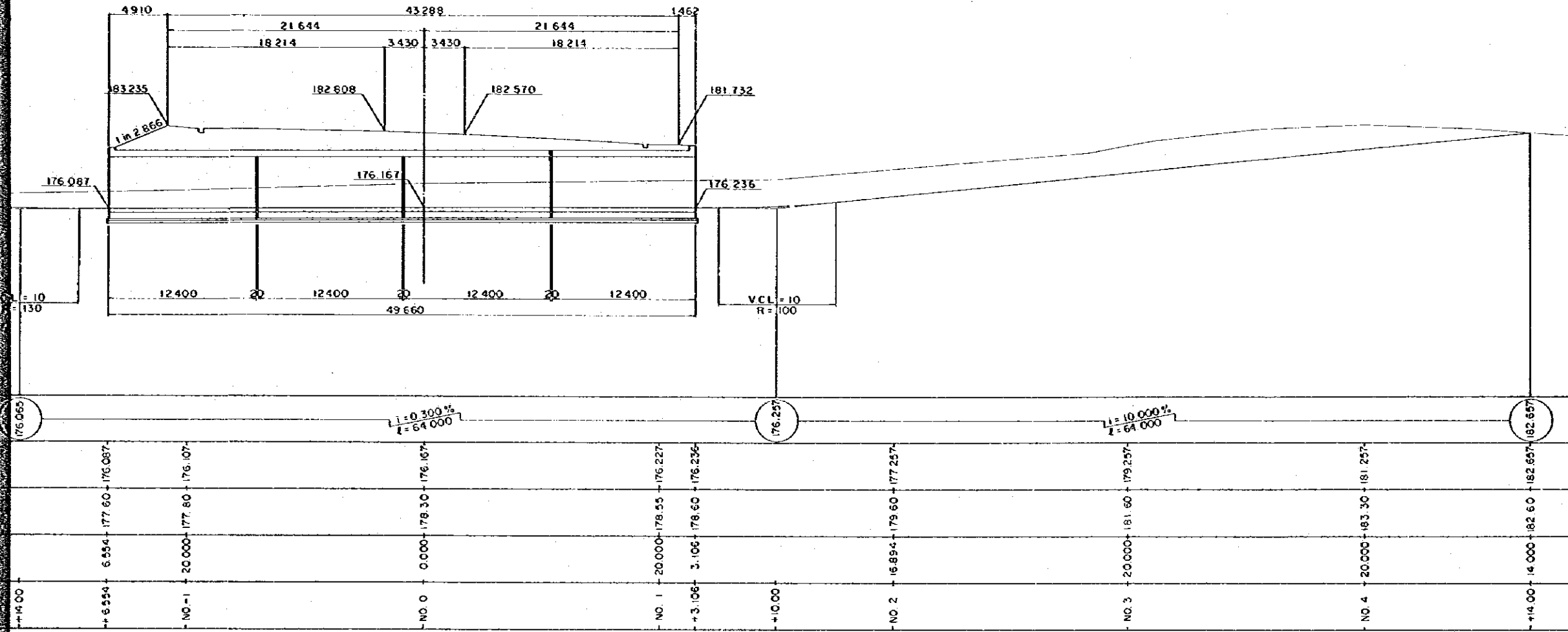
PLAN SCALE 1 : 200



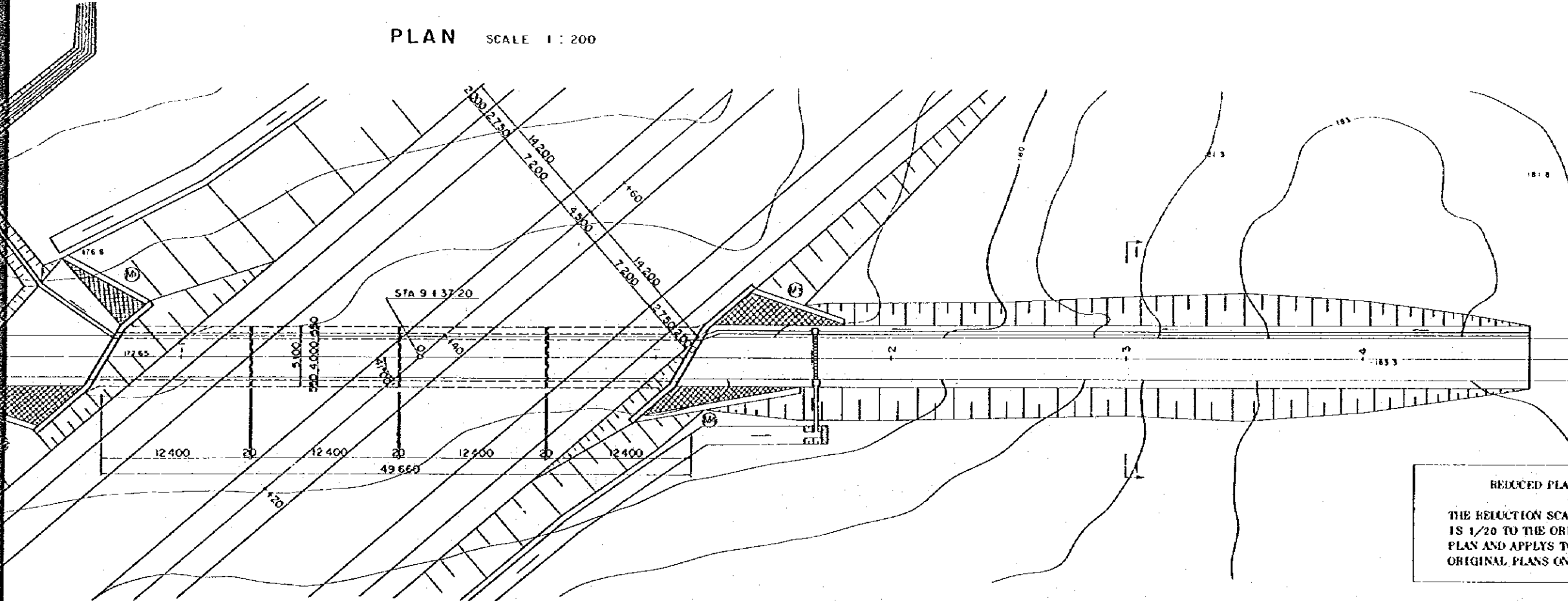
REDUCE
THE REDUCION
IS 1/20 TO THE
PLAN AND APPLI
ORIGINAL PLA

STA. 9 + 37.20 C-Bx 4.00x4.80x49.66 R 41°

PROFILE SCALE 1 : 200



PLAN SCALE 1 : 200

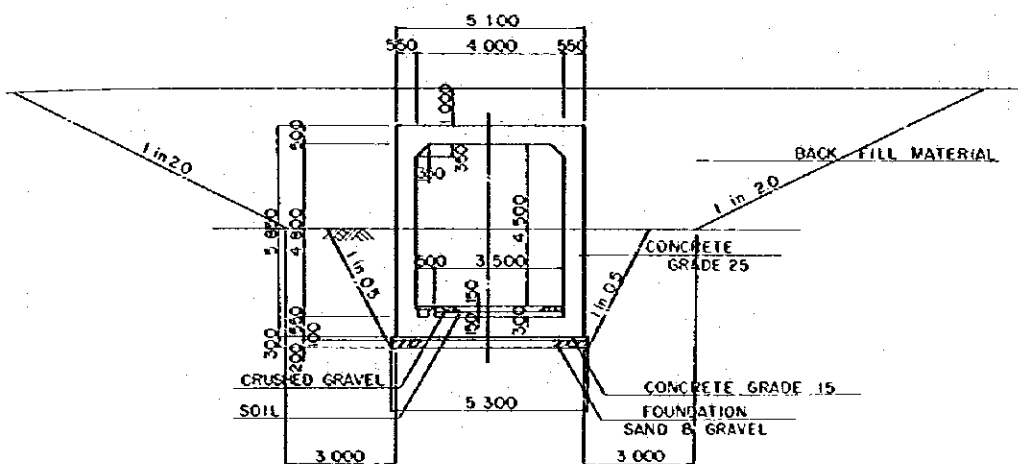


REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

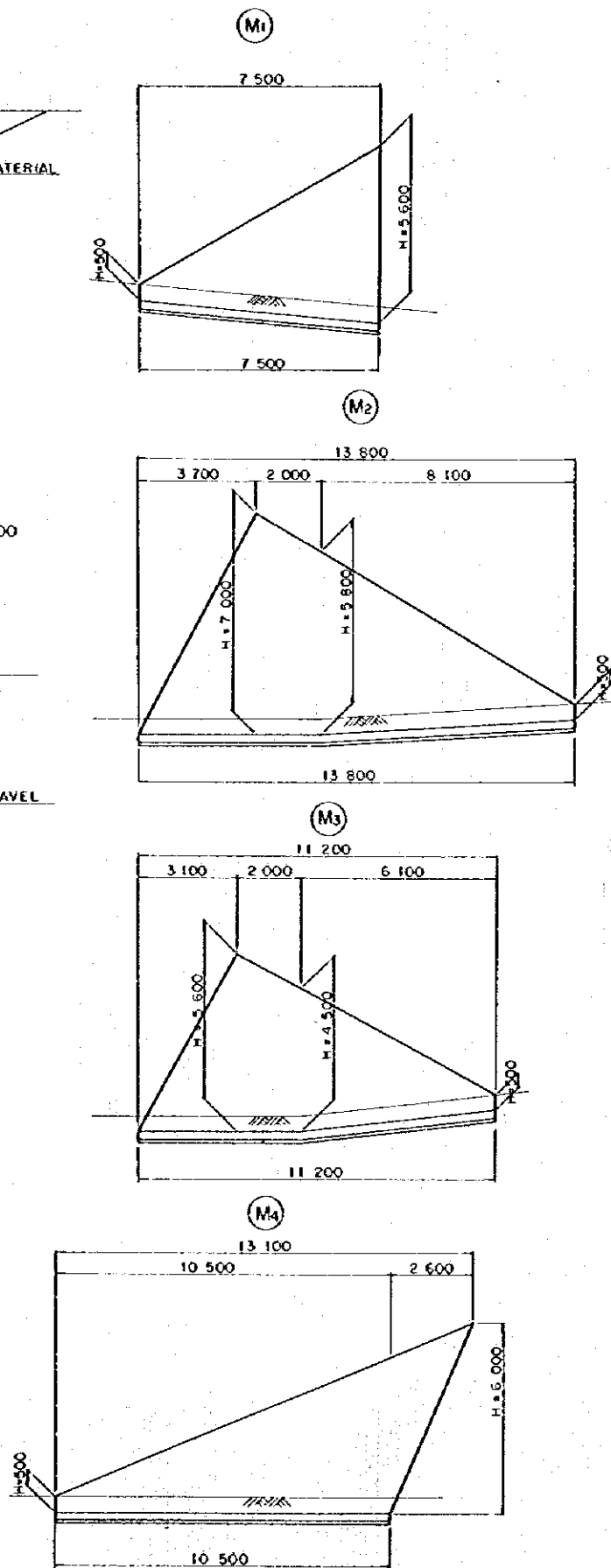
AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 9+37.2	
Scale 1 : 200	SHEET NO. 17/152
Date:	1980
JAPAN INTERNATIONAL COOPERATION AGENCY	

STA. 9+37.20 C-Bx 4.00x4.80x49.66 R41°

TYPICAL CROSS SECTION SCALE 1:100

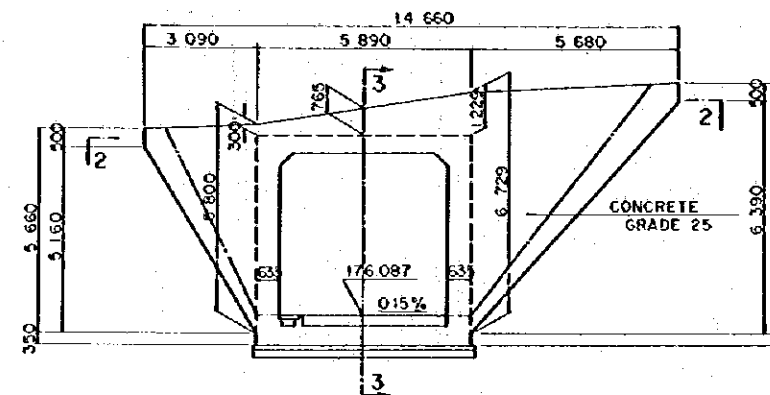


STONE MASONRY DEVELOPMENT SCALE 1:100

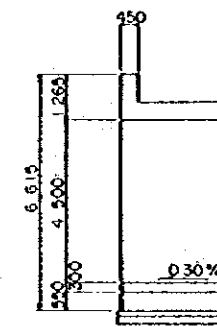


WING WALL SCALE 1:100

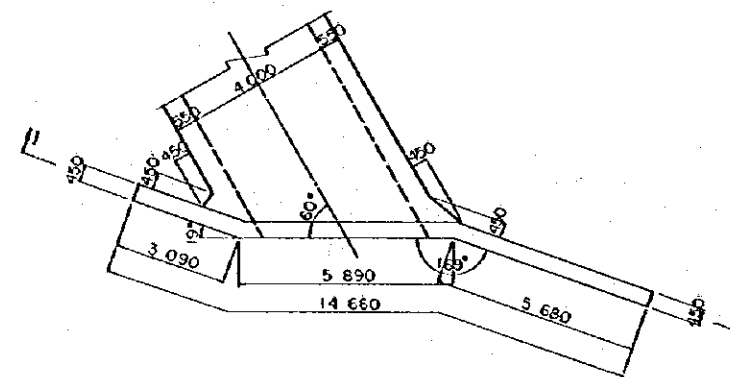
LEFT SIDE 1-1



SECTION 3-3

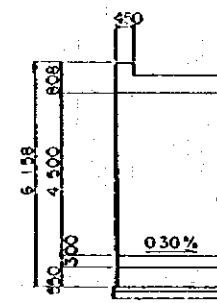


SECTION 2-2

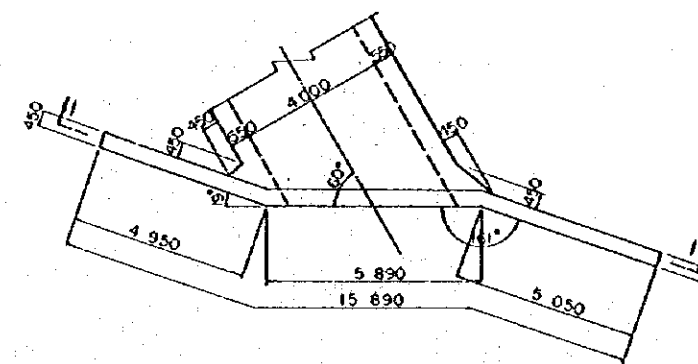


RIGHT SIDE 1-1

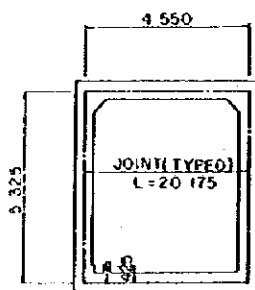
SECTION 3-3



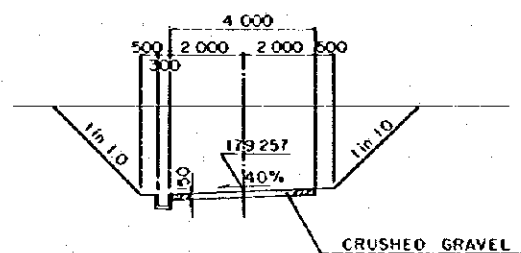
SECTION 2-2



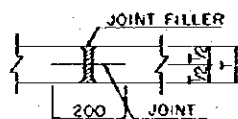
JOINT



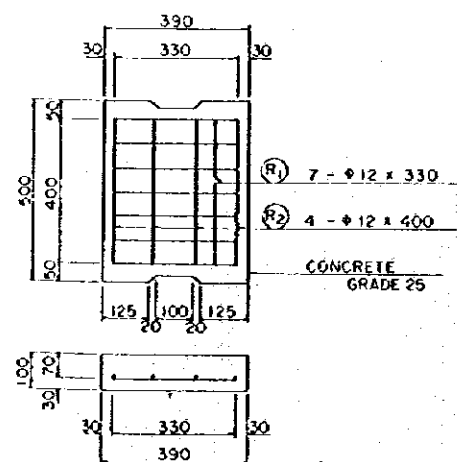
SECTION 1-1 SCALE 1:100



JOINT FILLER



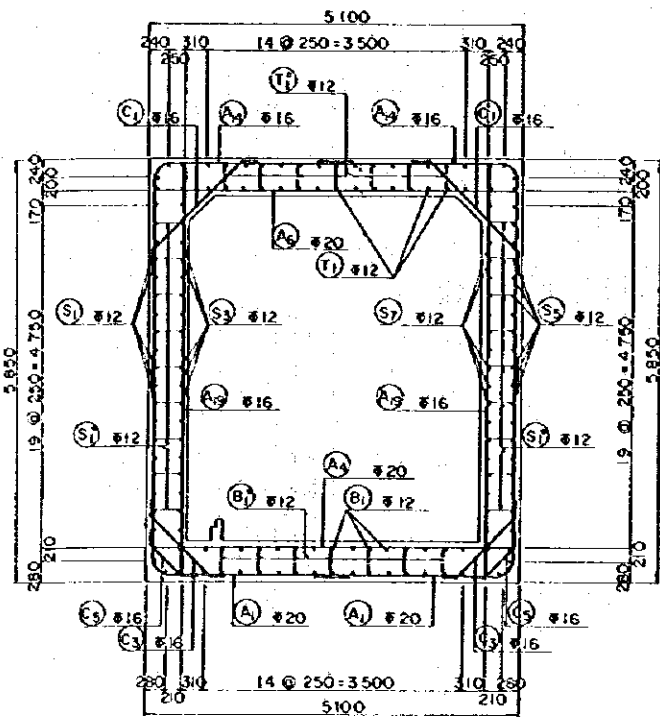
COVER SCALE 1:10



REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 9+37.20	
Scale 1:100	SHEET NO. 18/152
Date:	1980
JAPAN INTERNATIONAL COOPERATION AGENCY	

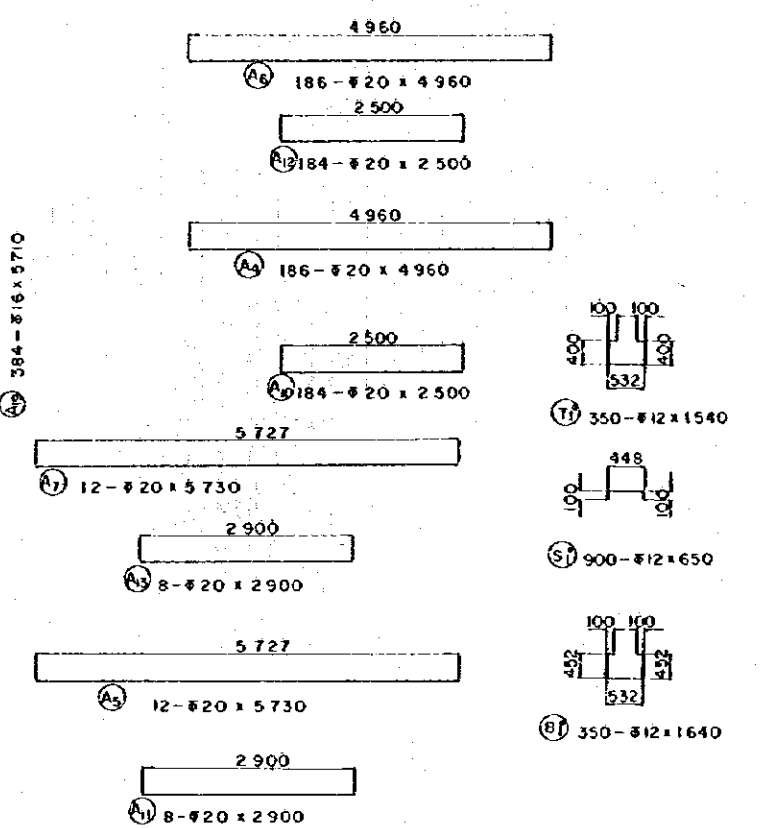
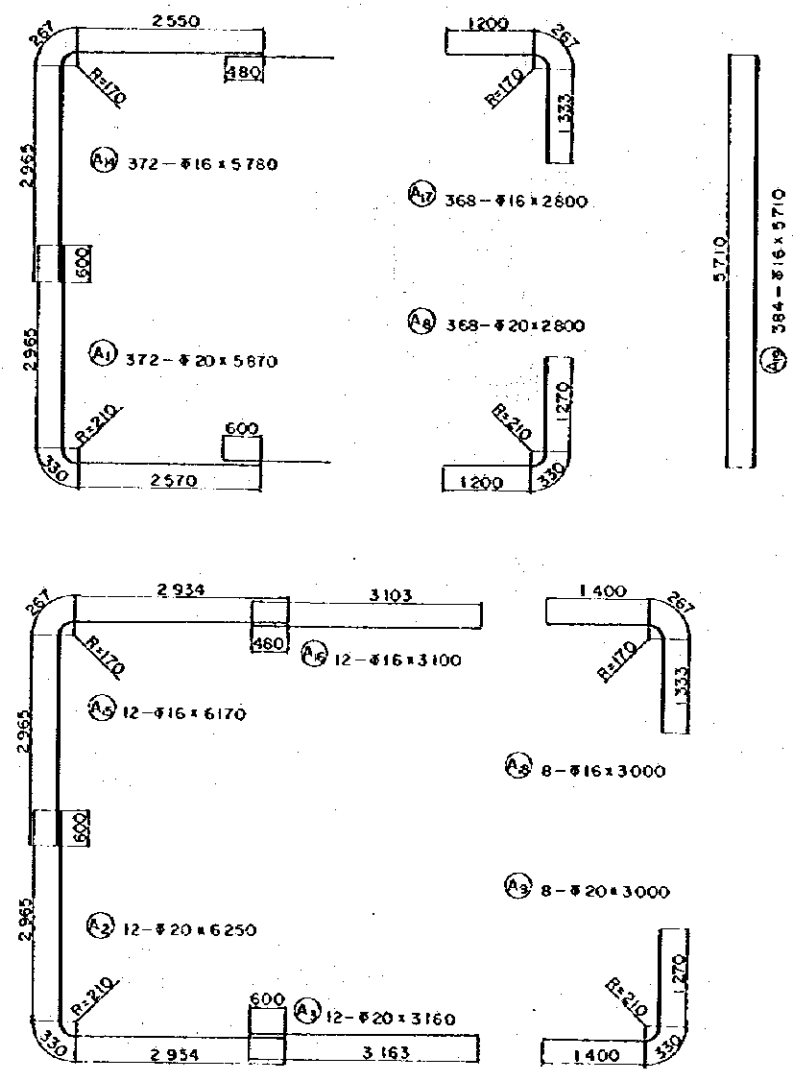
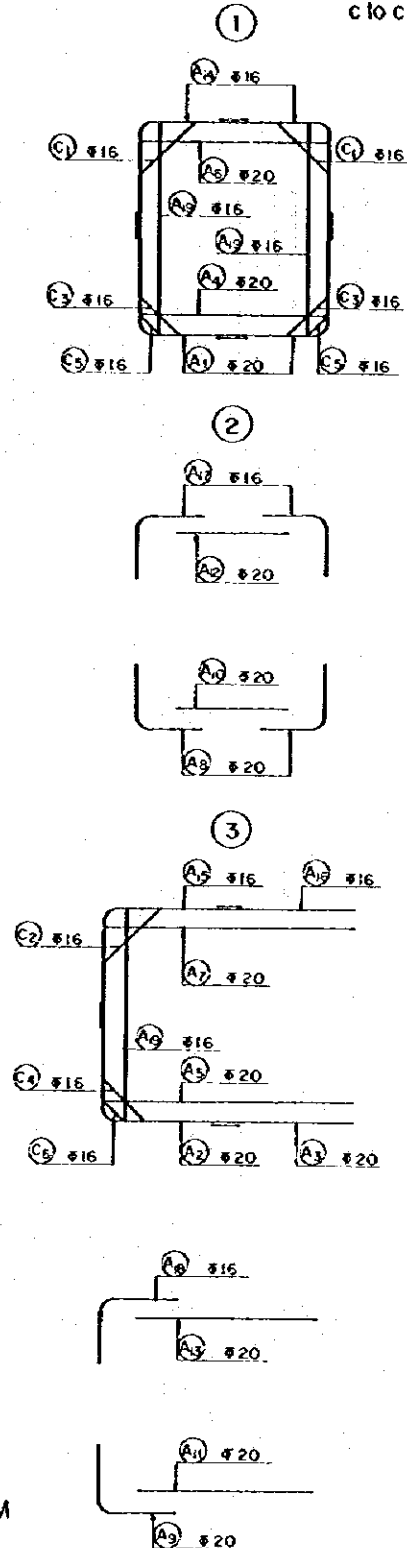
SECTION



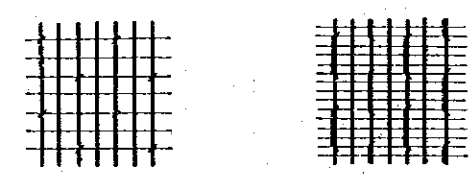
BAR ARRANGMENT

SCALE 1:50

COMBINATION OF REINFORCEMENT
c/c 125mm



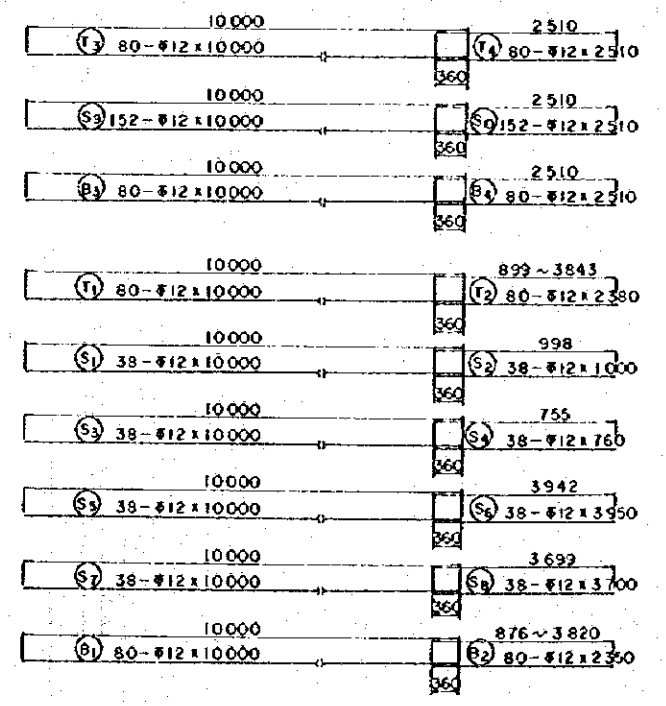
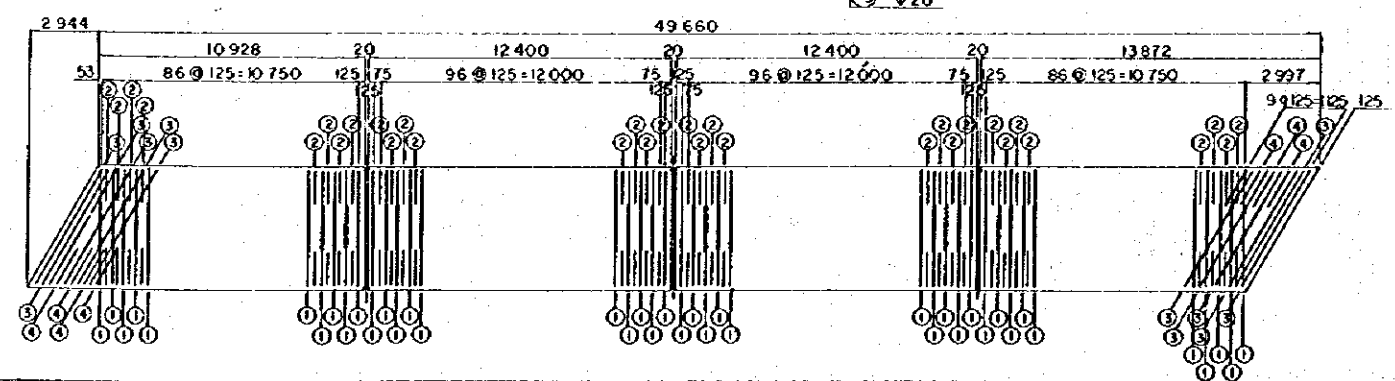
DISPOSITION OF STIRRUP
SIDE WALL BOTTOM AND TOP SLAB



NOTE OPEN SECTION OF U TYPE STIRRUP SHALL BE SET AT COMPRESSIVE FORCE SIDE OF THE BOTTOM AND TOP SLABS

MARK	SECTION	L1	L2	LENGTH	EACH
C1	#16	1662	500	2660	372
2	"	1919	500	2920	10
3	"	1237	500	2240	372
4	"	1428	500	2430	10
5	"	560	500	1560	372
6	"	647	500	1650	10

MARKING DIAGRAM



AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS
BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN

BOX CULVERT
STA. 9+37.20

Scale 1:50 SHEET NO. 19/152

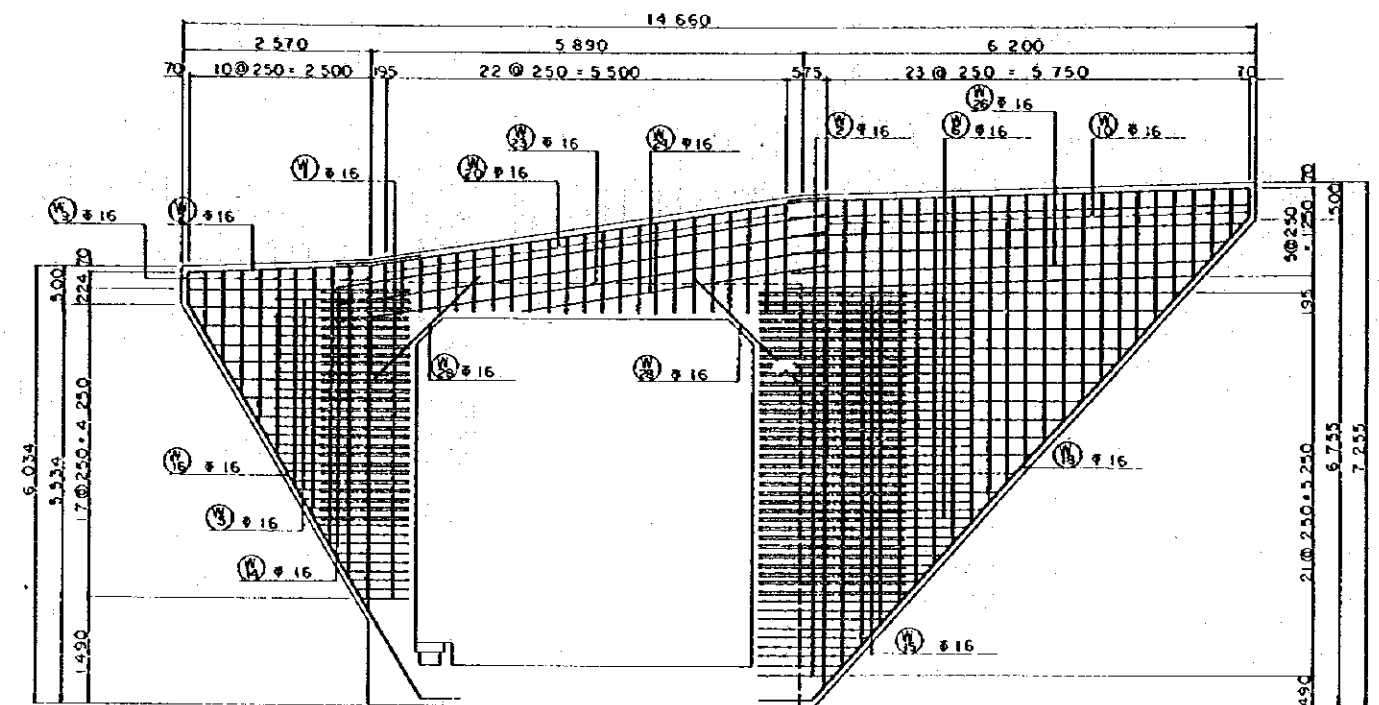
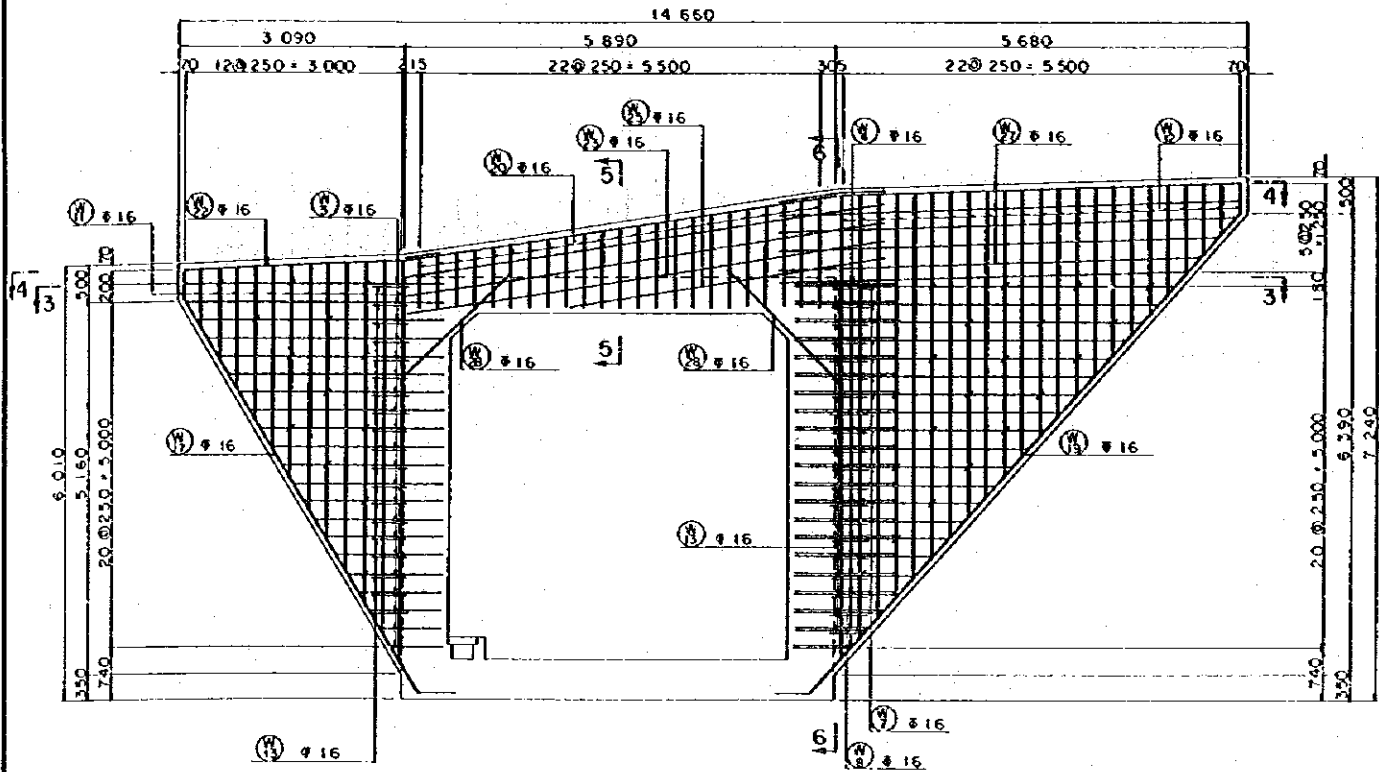
Date: 1980

JAPAN INTERNATIONAL COOPERATION AGENCY

BAR ARRANGEMENT WING WALL SCALE 1:50

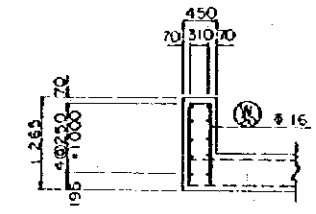
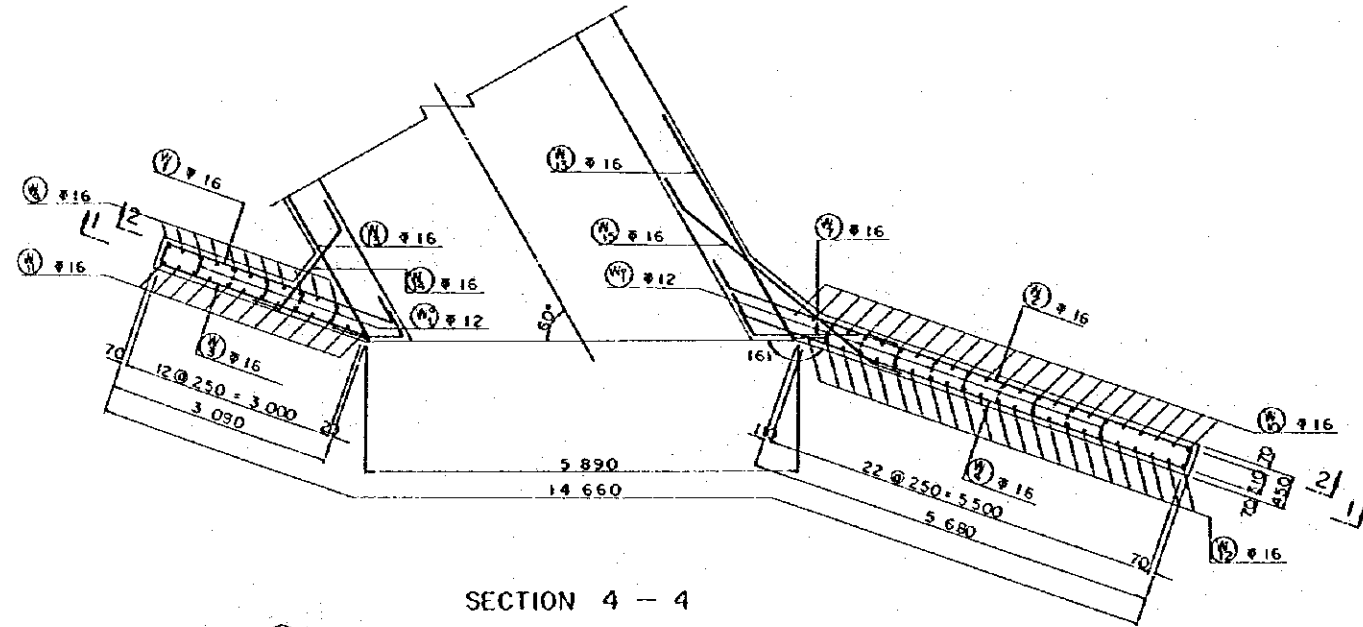
FRONT ELEVATION 1 - 1

BACK ELEVATION 2 - 2

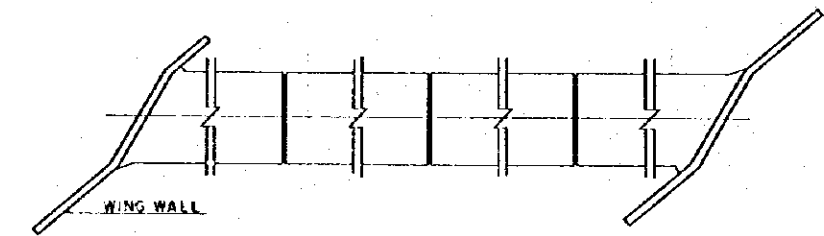


SECTION 3 - 3

SECTION 5 - 5

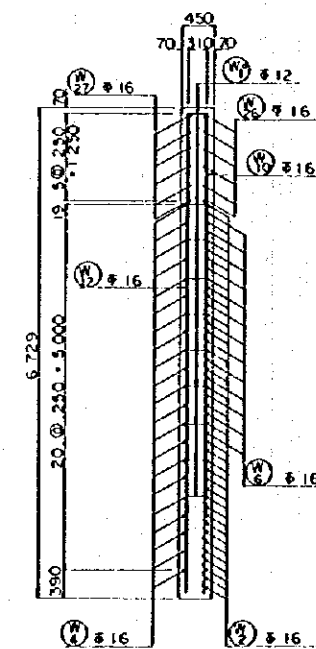
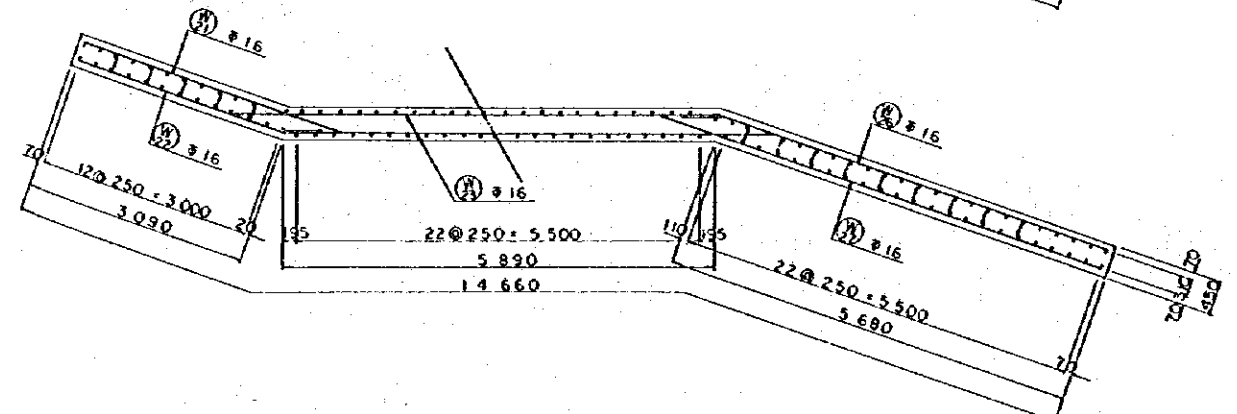


MARKING DIAGRAM



SECTION 4 - 4

SECTION 6 - 6

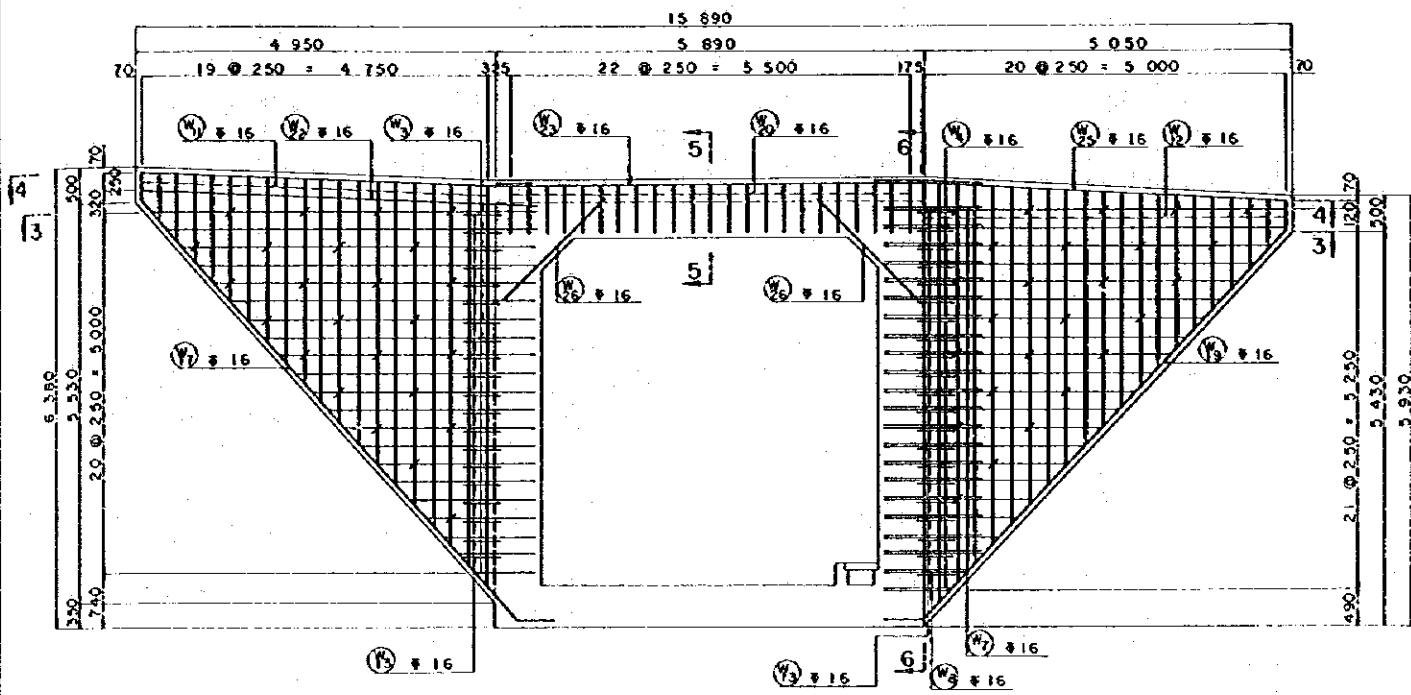


REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

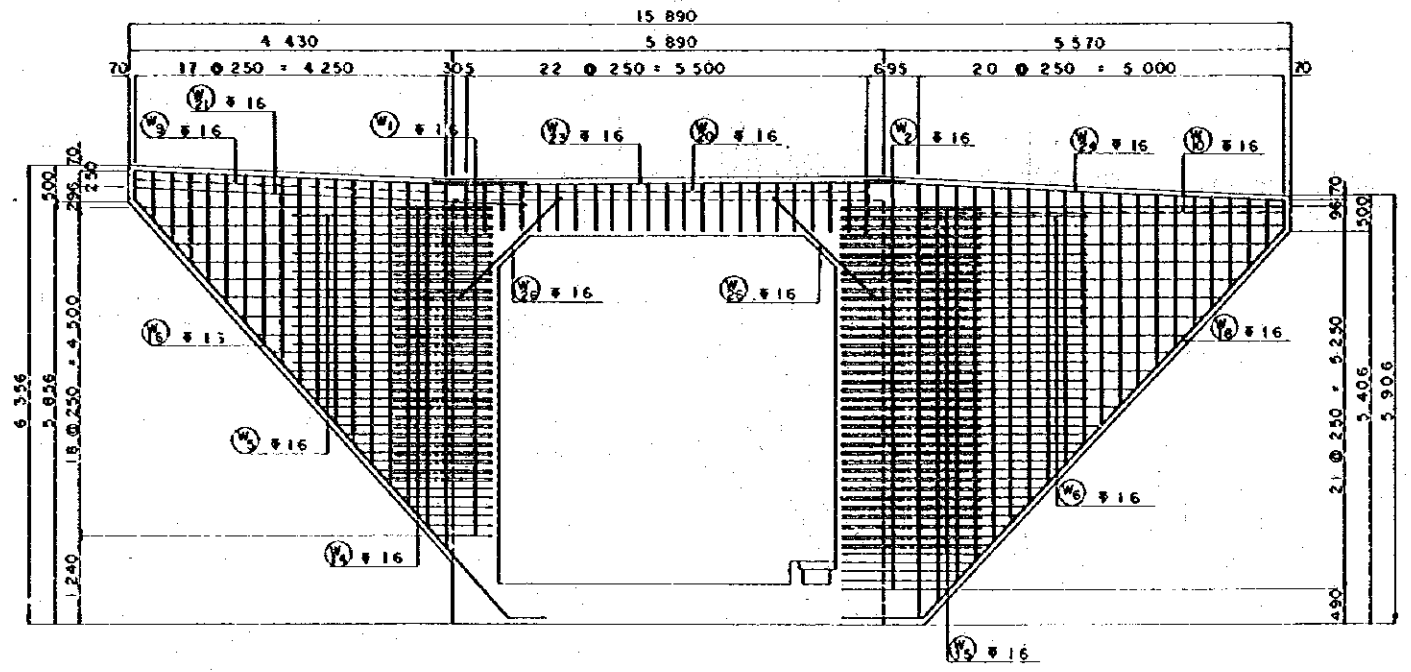
AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 9+37.20	
Scale 1 : 50	SHEET NO. 20/152
Date: 1980	
JAPAN INTERNATIONAL COOPERATION AGENCY	

BAR ARRANGEMENT WING WALL SCALE 1:50

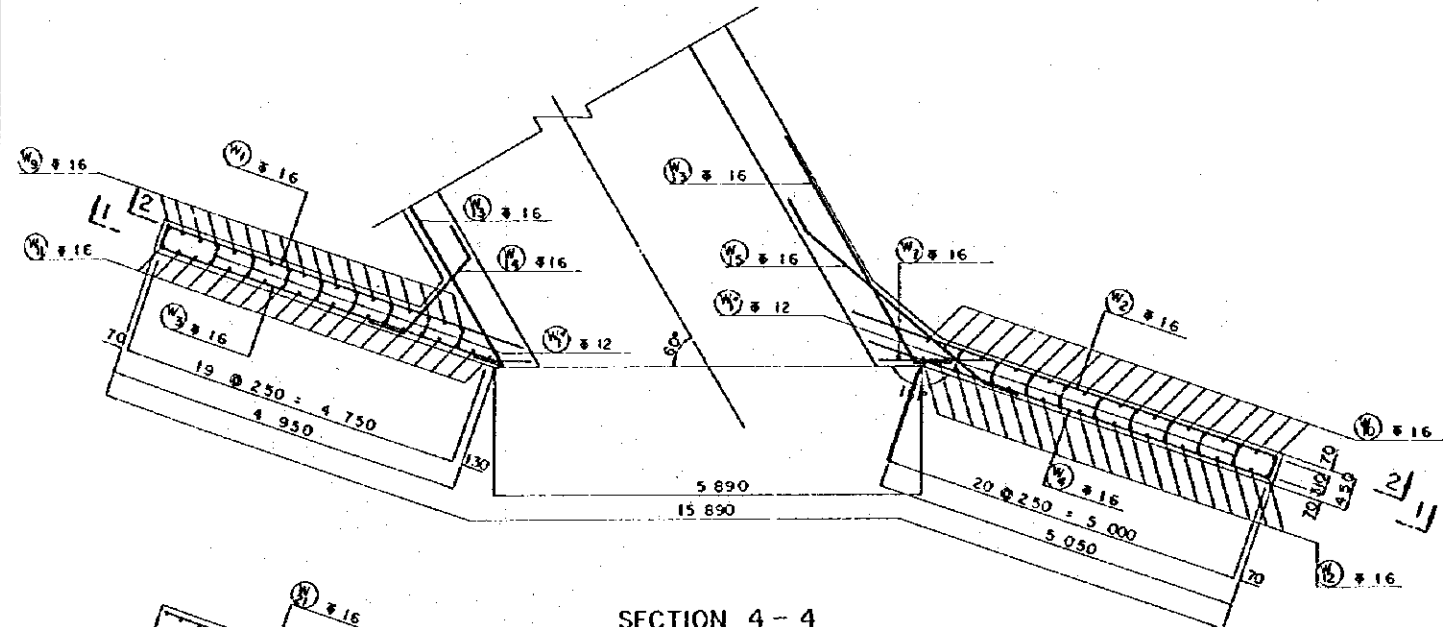
FRONT ELEVATION 1-1



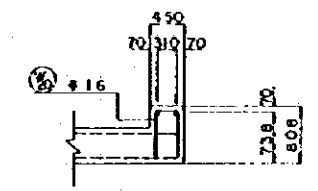
BACK ELEVATION 2-2



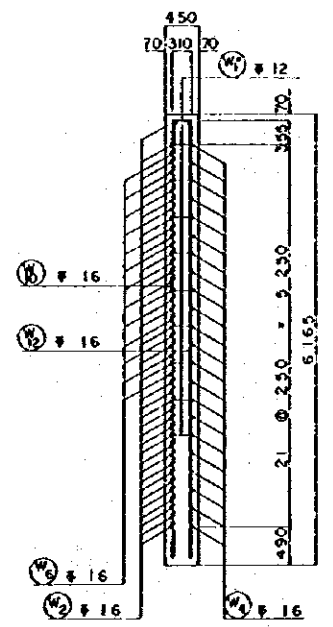
SECTION 3-3



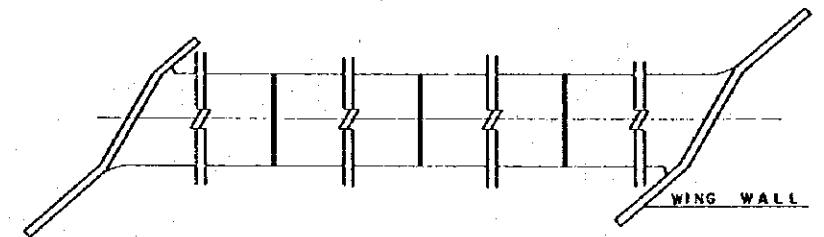
SECTION 5-5



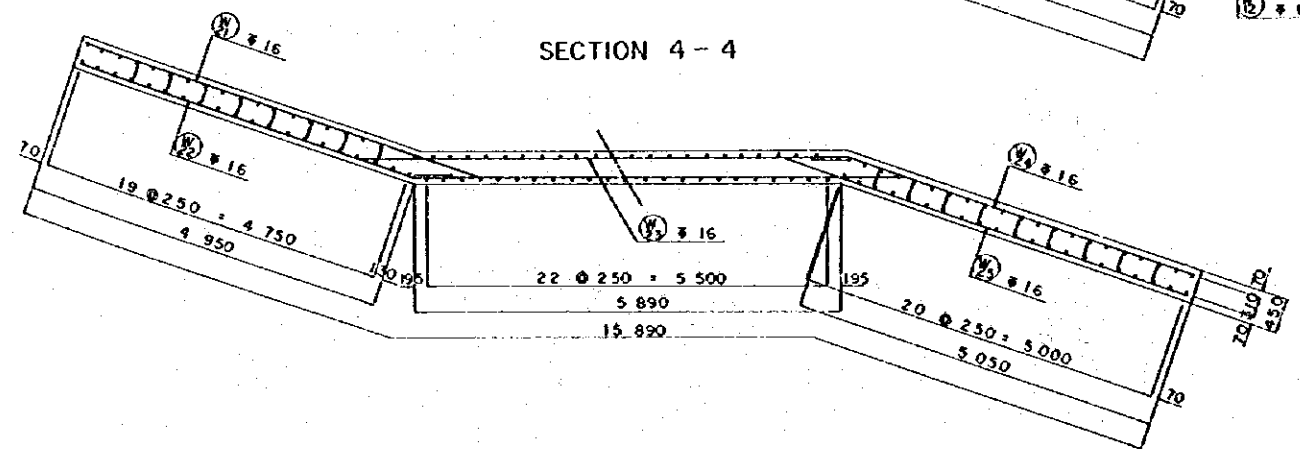
SECTION 6-6



MARKING DIAGRAM



SECTION 4-4

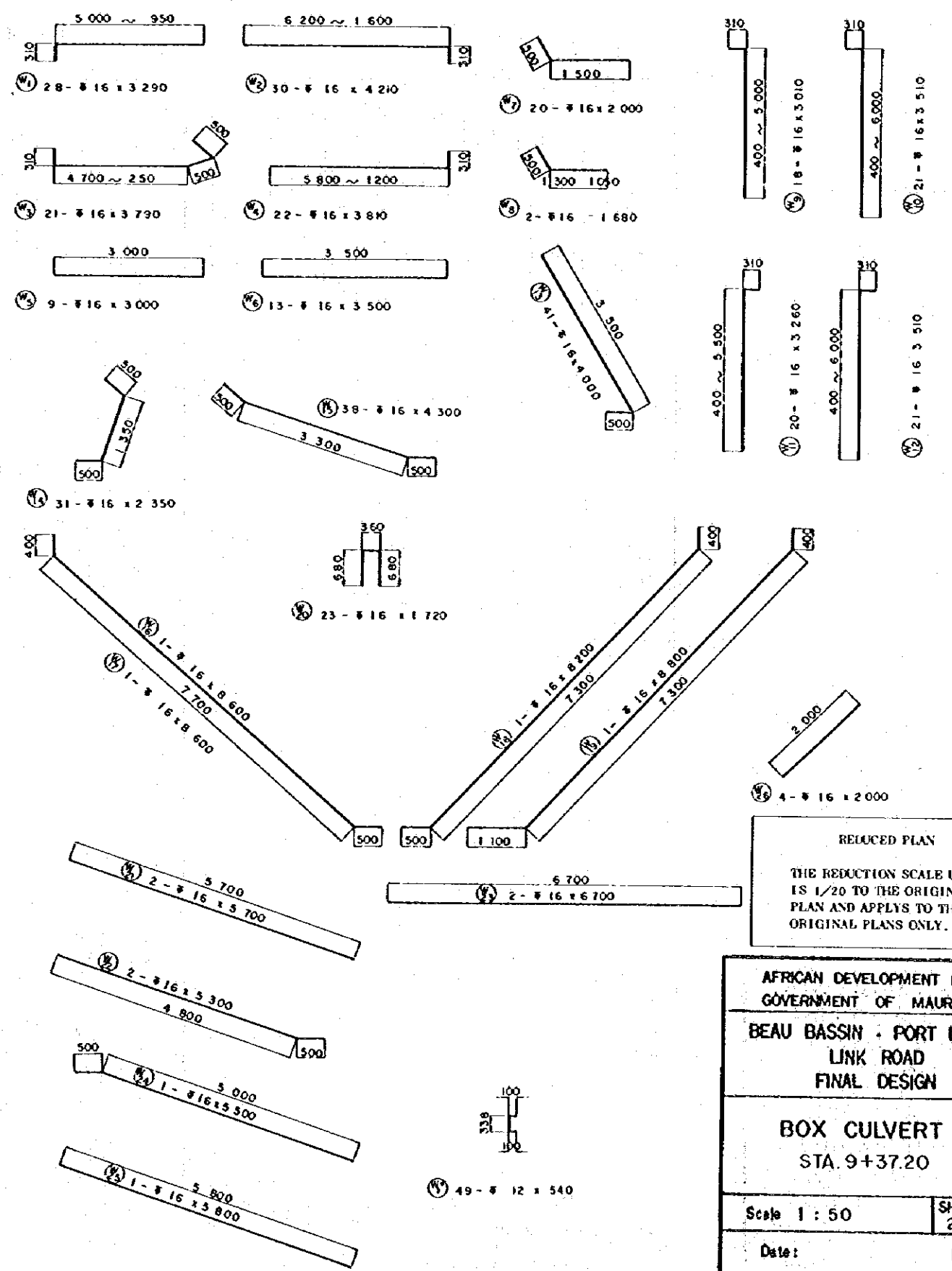
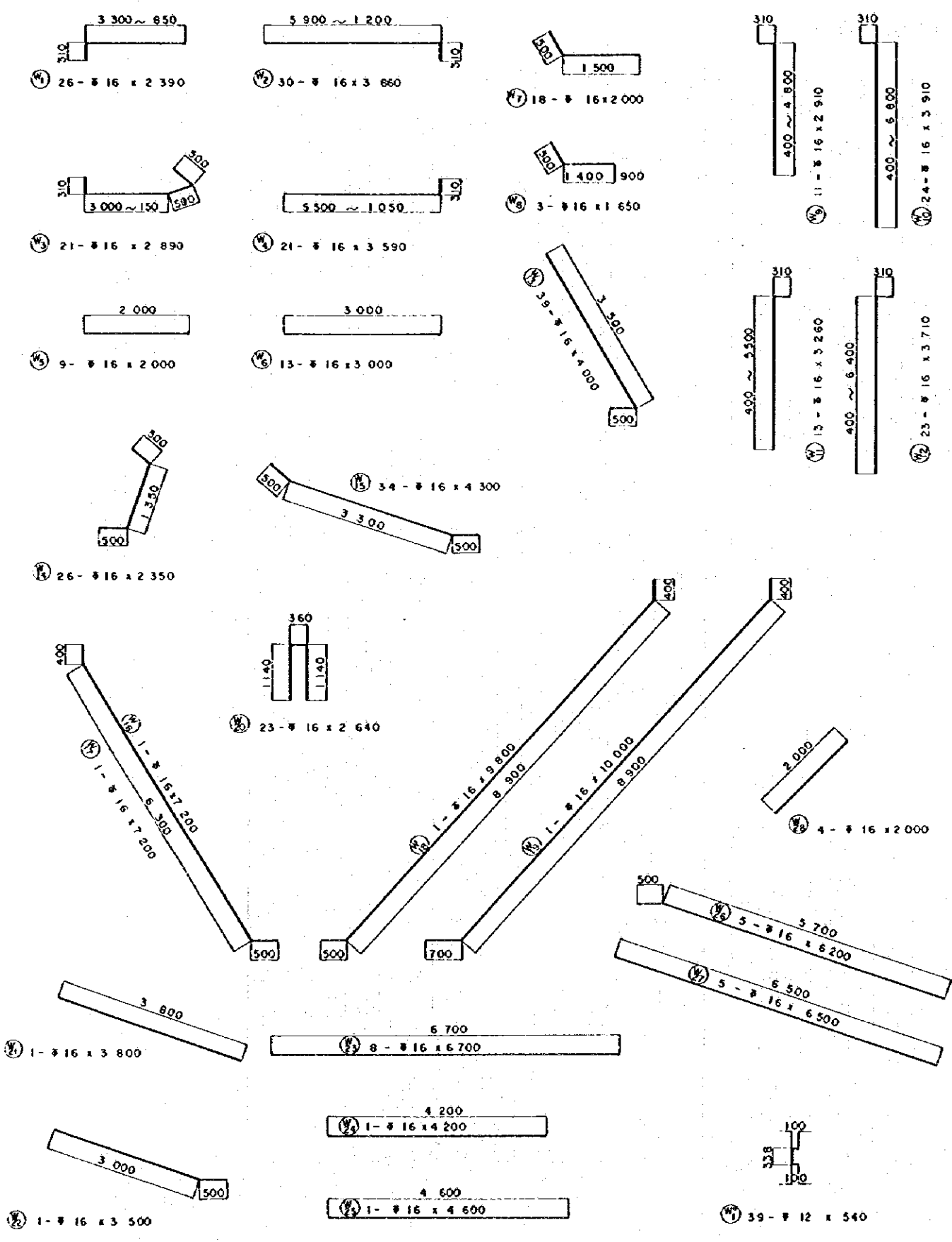


REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 9 + 3720	
Scale 1 : 50	SHEET NO. 21 / 152
Date:	1980
JICA INTERNATIONAL COOPERATION AGENCY	

LEFT SIDE SCALE 1:50

RIGHT SIDE SCALE 1:50



REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS
BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN

BOX CULVERT
STA. 9+37.20

Scale 1:50 SHEET NO. 22/152
Date: 1980
JAPAN INTERNATIONAL COOPERATION AGENCY

LIST OF REINFORCEMENT

MARK	SECTION	LENGTH	EACH	WEIGHT/M	WEIGHT/ONE	WEIGHT	REMARKS
(BODY)							
A 1	#20	5 870	372	2.47	14.5	5 394	L
2	"	6 250	12	"	15.4	185	"
3	"	3 160	12	"	7.81	94	—
4	"	4 960	186	"	12.3	2 288	—
5	"	5 730	12	"	14.2	170	"
6	"	4 960	186	"	12.3	2 288	"
7	"	5 730	12	"	14.2	170	"
8	"	2 800	368	"	6.92	2 547	J
9	"	3 000	8	"	7.41	59	"
10	"	2 500	184	"	6.18	1 137	—
11	"	2 900	8	"	7.16	57	"
12	"	2 500	184	"	6.18	1 137	"
13	"	2 900	8	"	7.16	57	"
						15 583 ^{kg}	
A 14	#16	5 780	372	1.56	9.02	3 355	L
15	"	6 170	12	"	9.63	116	"
16	"	3 100	12	"	4.84	58	—
17	"	2 800	368	"	4.37	1 608	J
18	"	3 000	8	"	4.68	37	"
19	"	5 710	384	"	8.91	3 421	
						8 595 ^{kg}	
T 1	#12	10 000	80	0.888	8.88	710	—
2	"	2 380	80	"	2.11	169	"
3	"	10 000	80	"	8.88	710	"
4	"	2 510	80	"	2.23	178	"
T 1	"	1 540	350	"	1.37	480	[]
						2 247 ^{kg}	
S 1	#12	10 000	38	0.888	8.88	337	—
2	"	1 000	38	"	0.888	34	"
3	"	10 000	38	"	8.88	337	"
4	"	760	38	"	0.675	26	"
5	"	10 000	38	"	8.88	337	"
6	"	3 950	38	"	3.51	133	"
7	"	10 000	38	"	8.88	337	"
8	"	3 700	38	"	3.29	339	"
9	"	10 000	152	"	8.88	1 350	"
10	"	2 510	152	"	2.23	339	"
S 1	"	650	900	"	0.577	519	L
						4 088 ^{kg}	
B 1	#12	10 000	80	0.888	8.88	710	—
2	"	2 350	80	"	2.09	167	"
3	"	10 000	80	"	8.88	710	"
4	"	2 510	80	"	2.23	178	"
B 1	"	1 640	350	"	1.46	511	[]
						2 276 ^{kg}	
C 1	#16	2 660	372	0.888	4.15	1 544	L
2	"	2 920	10	"	4.56	46	"
3	"	2 240	372	"	3.49	1 298	"
4	"	2 430	10	"	3.79	38	"
5	"	1 560	372	"	2.73	904	"
6	"	1 650	10	"	2.57	26	"
						3 856 ^{kg}	
				#20	15 583 ^{kg}		
				#16	12 451 ^{kg}		
				#12	8 611 ^{kg}		
SUB TOTAL					36 645 ^{kg}		

MARK	SECTION	LENGTH	EACH	WEIGHT/M	WEIGHT/ONE	WEIGHT	REMARKS
(LEFT WING WALL)							
W 1	#16	2 390	26	1.56	3.73	97	L
2	"	3 860	30	"	6.02	181	—
3	"	2 890	21	"	4.51	95	J
4	"	3 590	21	"	5.60	118	—
5	"	2 000	9	"	3.12	28	—
6	"	3 000	13	"	4.68	61	"
7	"	2 000	18	"	3.12	56	L
8	"	1 650	3	"	2.57	8	"
9	"	2 910	11	"	4.54	50	J
10	"	3 910	24	"	6.10	146	"
11	"	3 260	13	"	5.09	66	"
12	"	3 710	23	"	5.79	133	"
13	"	4 000	39	"	6.24	243	J
14	"	2 350	26	"	3.67	95	J
15	"	4 300	34	"	6.71	228	J
16	"	7 200	1	"	11.2	11	J
17	"	7 200	1	"	11.2	11	"
18	"	9 800	1	"	15.3	15	"
19	"	10 000	1	"	15.6	16	"
20	"	2 640	23	"	4.12	95	J
21	"	3 800	1	"	5.93	6	J
22	"	3 500	1	"	5.46	5	J
23	"	6 700	8	"	10.5	84	J
24	"	4 200	1	"	6.55	7	"
25	"	4 600	1	"	7.18	7	"
26	"	6 200	5	"	9.67	48	J
27	"	6 500	5	"	10.1	51	J
28	"	2 000	4	"	3.12	12	J
						1 973 ^{kg}	
W 1	#12	540	39	0.888	0.480	19	[]
						19 ^{kg}	
				#16	1 973 ^{kg}		
				#12	19 ^{kg}		
SUB TOTAL					1 992 ^{kg}		
(RIGHT WING WALL)							
W 1	#16	3 290	28	1.56	5.13	144	L
2	"	4 210	30	"	6.57	197	J
3	"	3 790	21	"	5.91	124	J
4	"	3 810	22	"	5.94	131	J
5	"	3 000	9	"	4.68	42	—
6	"	3 500	15	"	5.46	71	"
7	"	2 000	20	"	3.12	62	J
8	"	1 680	2	"	2.62	5	"
9	"	3 010	18	"	4.70	85	J
10	"	3 510	21	"	5.48	115	"
11	"	3 260	20	"	5.09	102	"
12	"	3 510	21	"	5.48	115	"
13	"	4 000	41	"	6.24	256	J
14	"	2 350	31	"	3.67	114	J
15	"	4 300	38	"	6.71	255	J

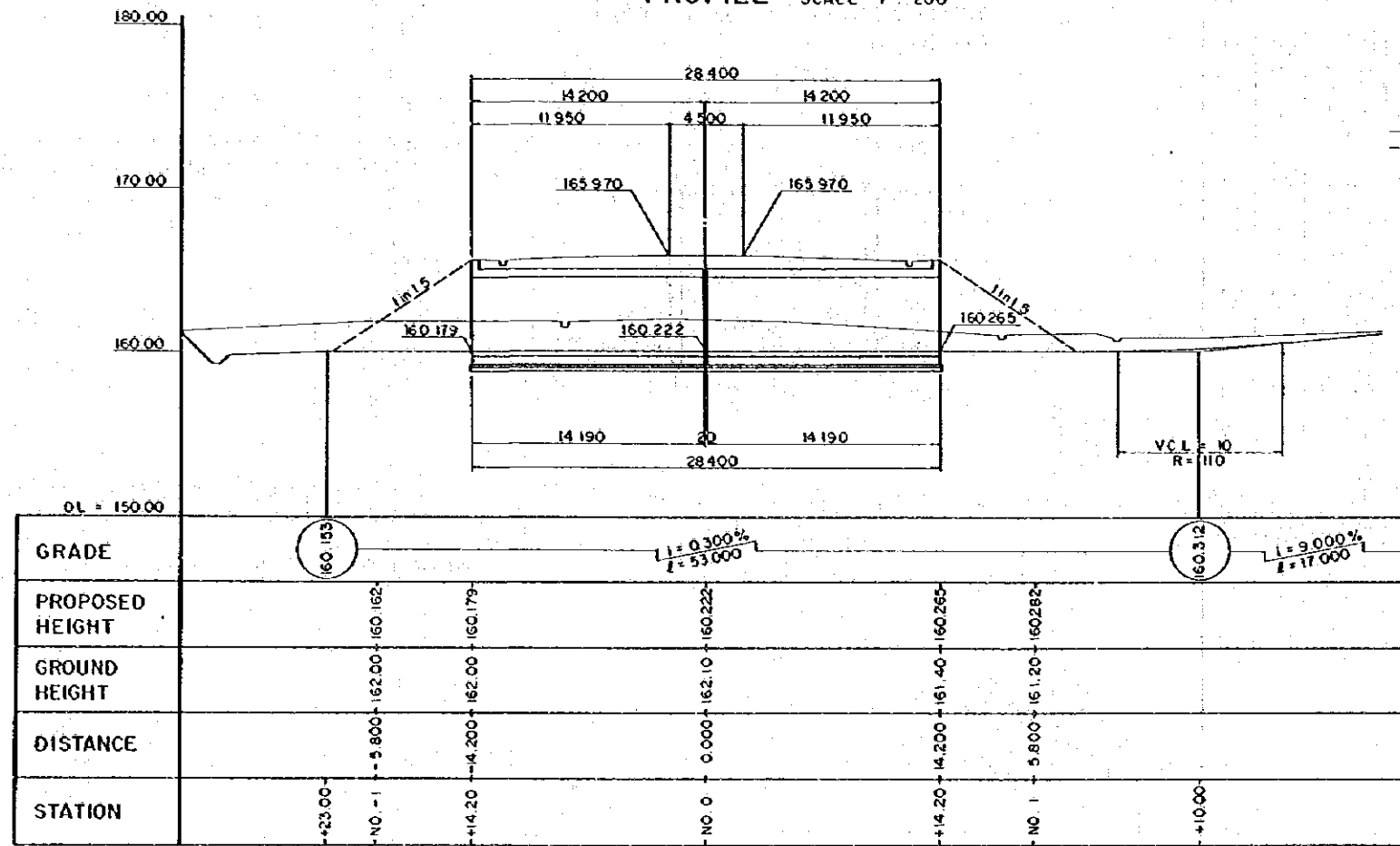
MARK	SECTION	LENGTH	EACH	WEIGHT/M	WEIGHT/ONE	WEIGHT	REMARKS
W 16	#16	8 600	1	1.56	13.4	13	J
17	"	8 600	1	"	13.4	13	"
18	"	8 200	1	"	12.8	13	"
19	"	8 800	1	"	13.7	14	"
20	"	1 720	23	"	2.68	62	J
21	"	5 700	2	"	8.89	18	J
22	"	5 300	2	"	8.27	17	J
23	"	6 700	2	"	10.6	21	J
24	"	5 500	1	"	8.54	9	J
25	"	5 800	1	"	9.05	9	J
26	"	2 000	4	"	3.12	12	J
						2 019 ^{kg}	
W 1	#12	540	49	0.888	0.480	24	[]
						24 ^{kg}	
				#16	2 019 ^{kg}		
				#12	24 ^{kg}		
SUB TOTAL					2 043 ^{kg}		
				#20	15 583 ^{kg}		
				#16	16 443 ^{kg}		
				#12	8 654 ^{kg}		
TOTAL					40 680 ^{kg}		

REDUCED PLAN
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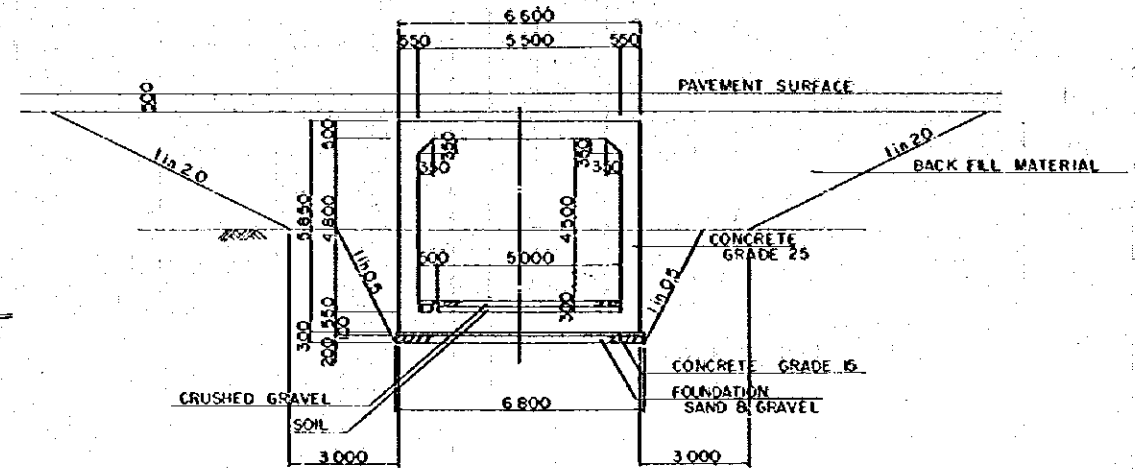
AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 9+37.20	
Scale 1 :	SHEET NO. 23/152
Date:	1980
JICA INTERNATIONAL COOPERATION AGENCY	

STA. 13 + 95.00 C-Bx 5.50x4.80x28.40 L R

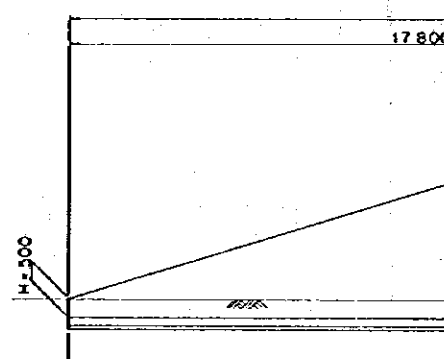
PROFILE SCALE 1 : 200



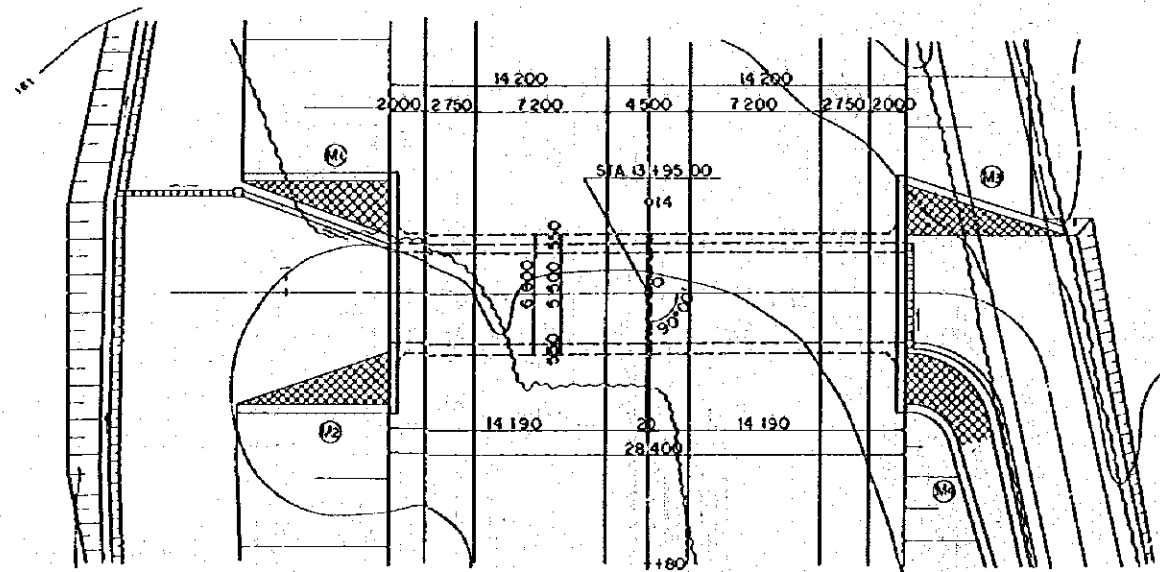
TYPICAL CROSS SECTION SCALE 1 : 100



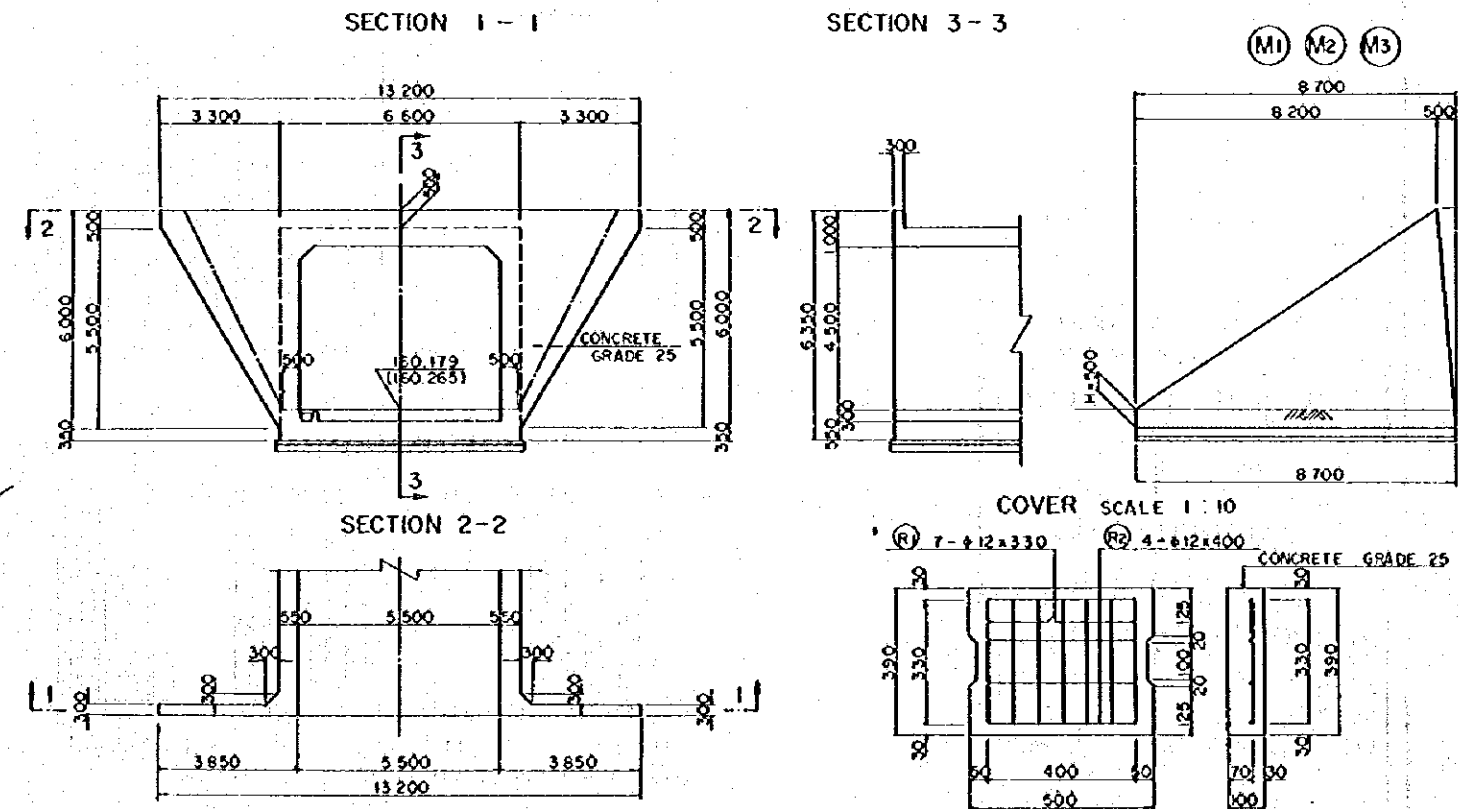
STONE MASONRY



PLAN SCALE 1 : 200

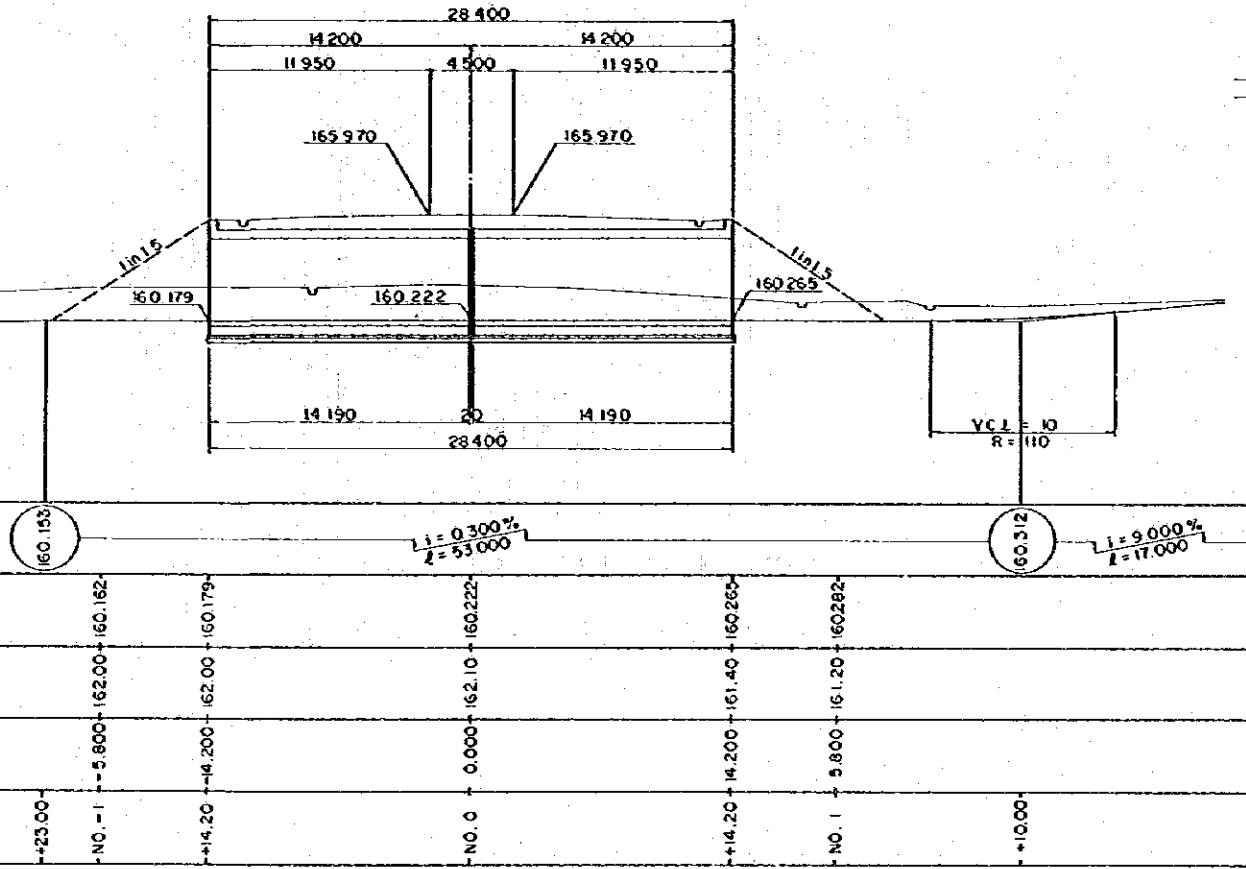


WING WALL SCALE 1 : 100

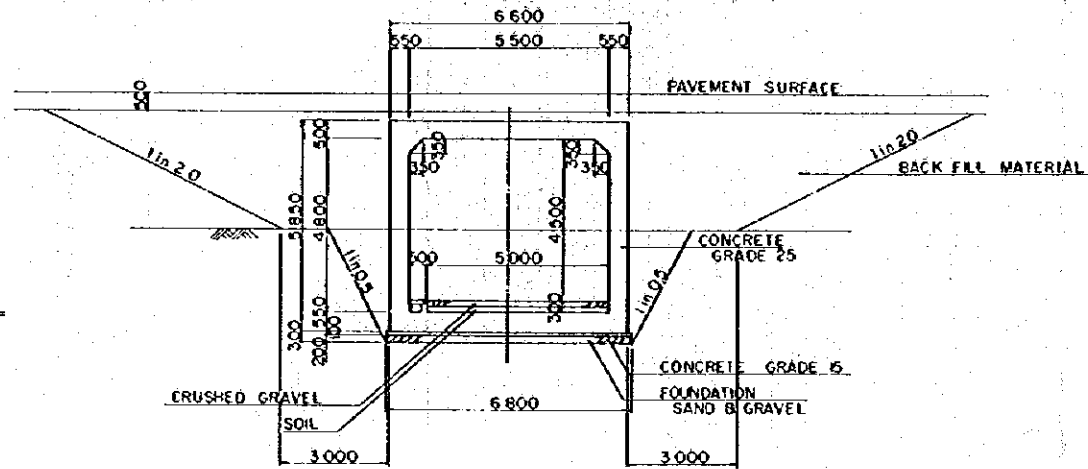


STA. 13+95.00 C-Bx 5.50x4.80x28.40 L R

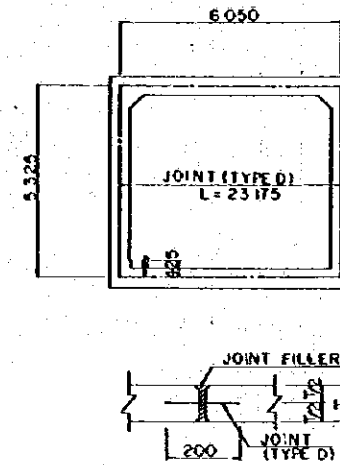
PROFILE SCALE 1 : 200



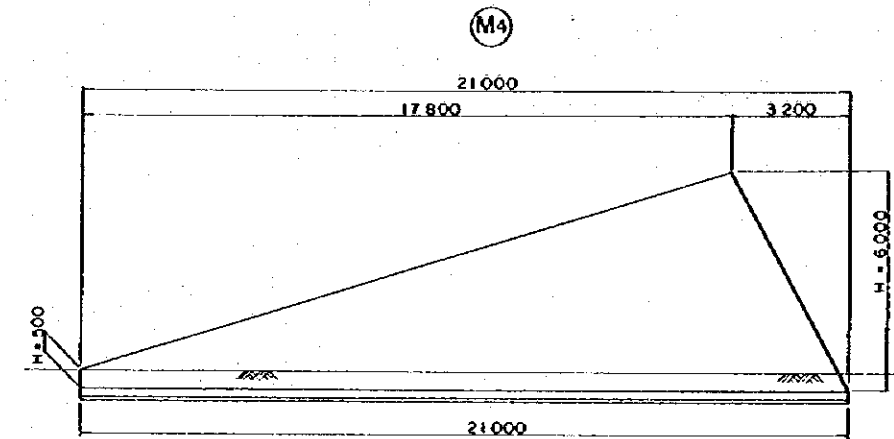
TYPICAL CROSS SECTION SCALE 1 : 100



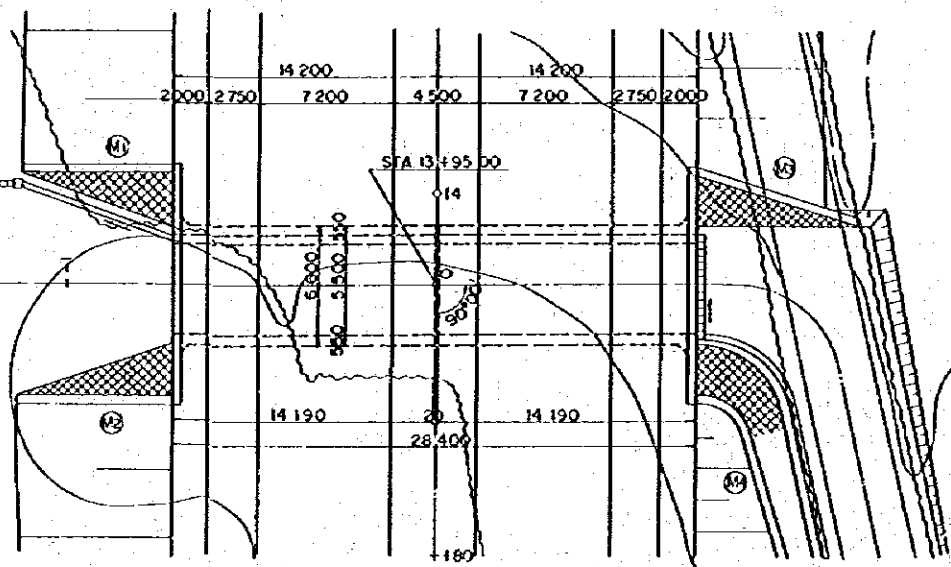
JOINT



STONE MASONRY DEVELOPMENT SCALE 1 : 100

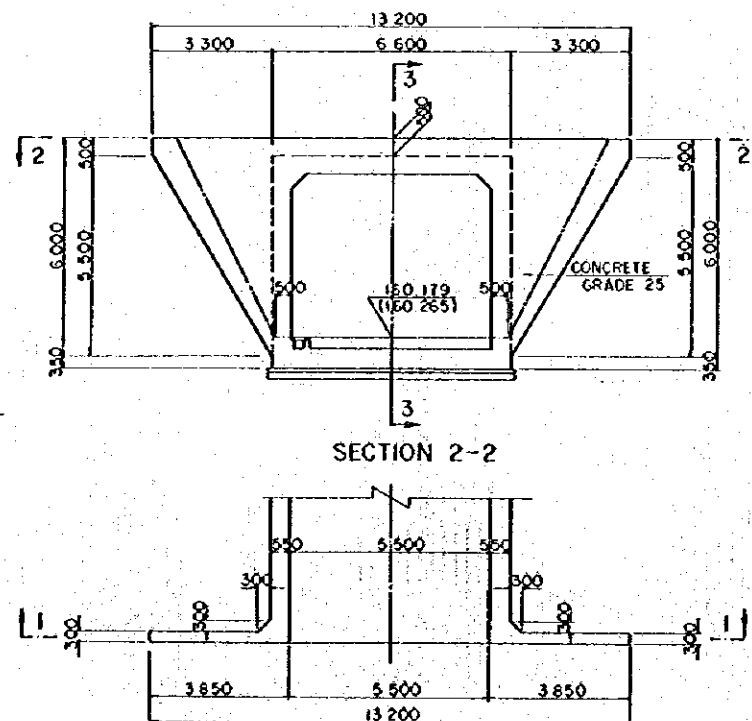


PLAN SCALE 1 : 200

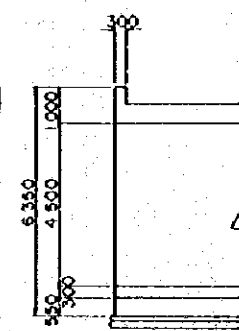


WING WALL SCALE 1 : 100

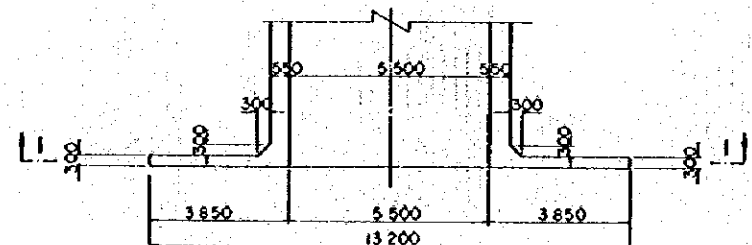
SECTION 1-1



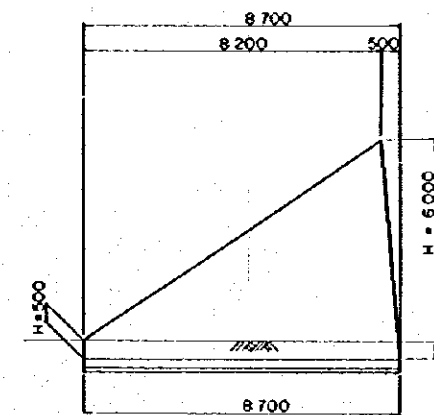
SECTION 3-3



SECTION 2-2

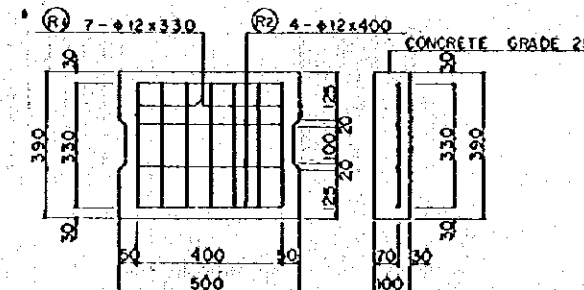


M1 M2 M3



REDUCED PLAN
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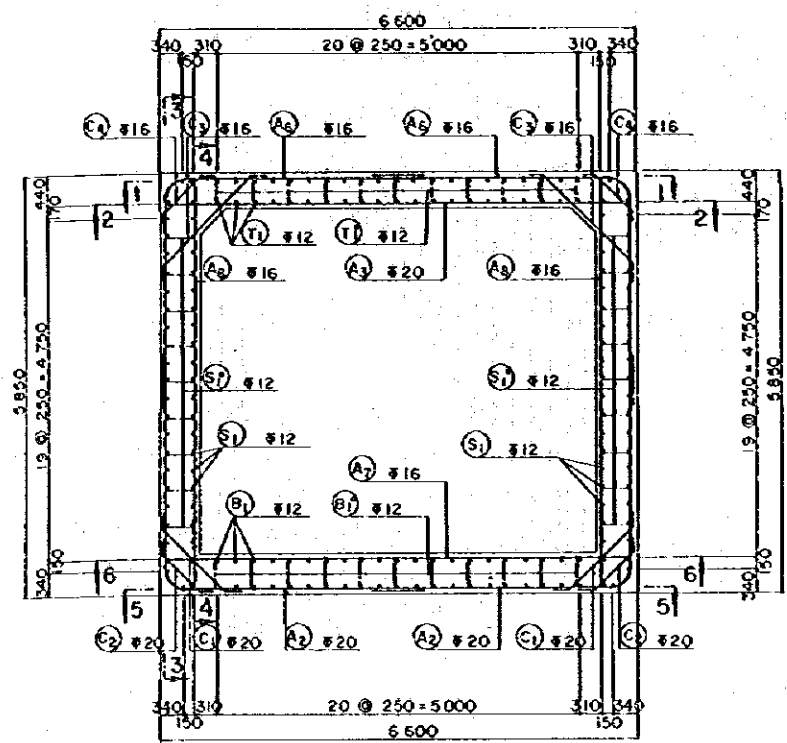
COVER SCALE 1 : 10



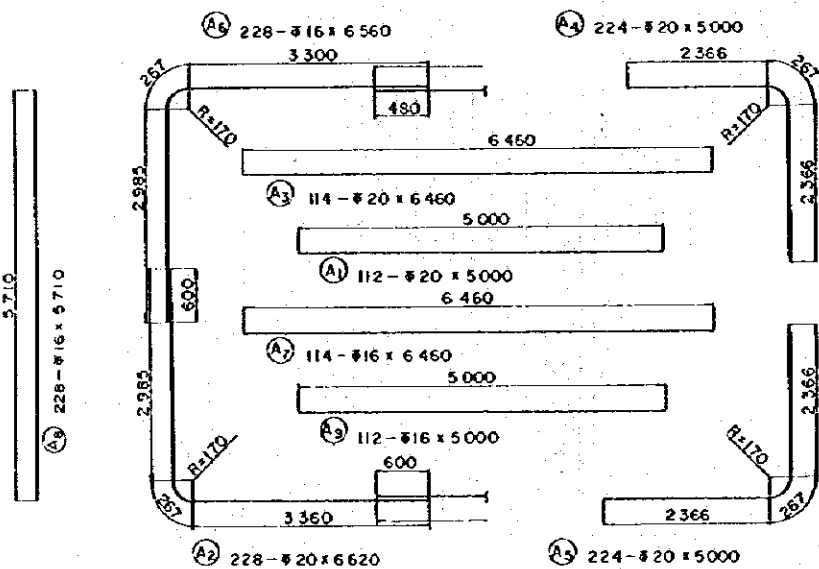
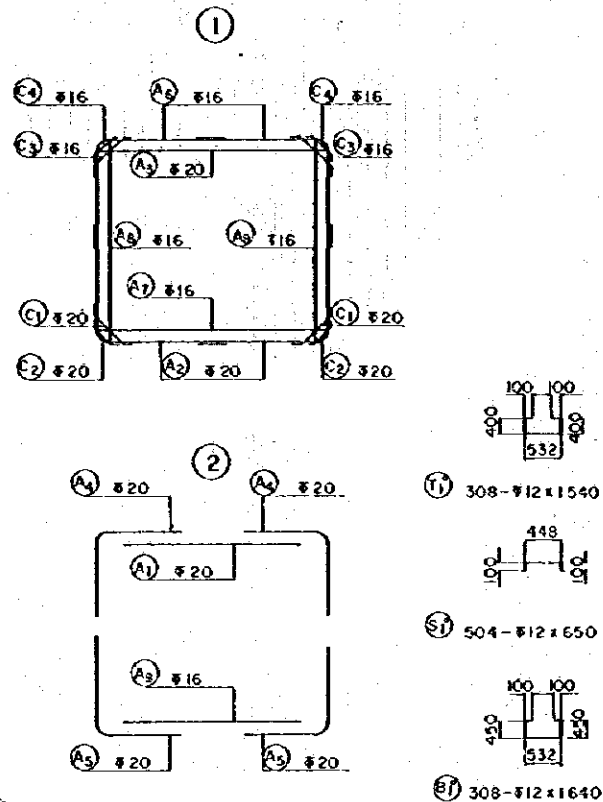
AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 13+95.00	
Scale 1 : 200, 100	SHEET NO. 24 / 152
Date:	1980
JAPAN INTERNATIONAL COOPERATION AGENCY	

BAR ARRANGEMENT SCALE 1:50

SECTION



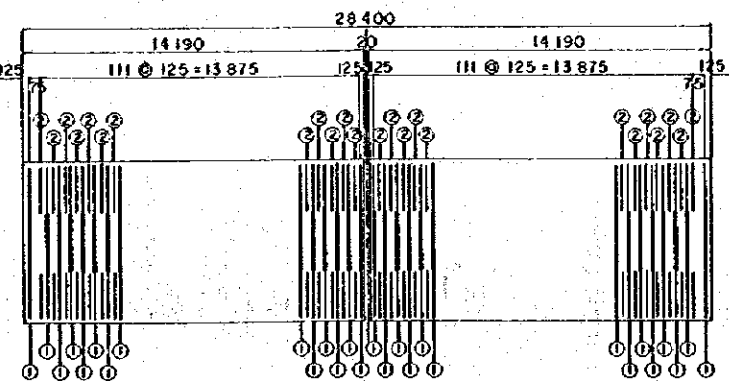
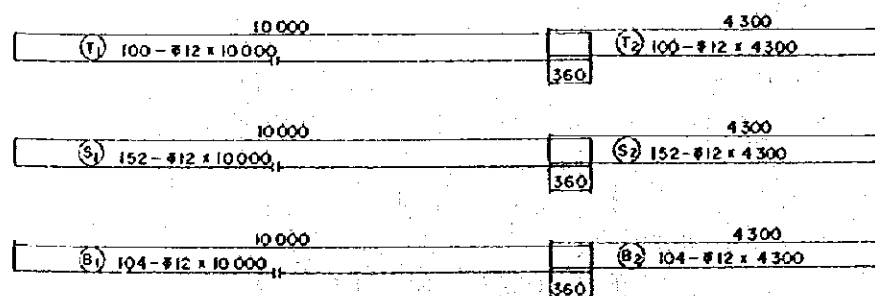
COMBINATION OF REINFORCEMENT
c/c 125mm



L = L1 + L2

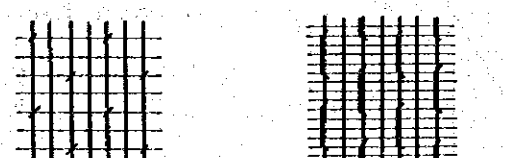
MARK	SECTION	L1	L2	LENGTH	EACH
C1	#20	1188	500	2190	228
2	#20	594	500	1600	228
3	#16	1683	500	2690	228
4	#20	594	500	1600	228

MARKING DIAGRAM



DISPOSITION OF STIRRUP

SIDE WALL BOTTOM AND TOP SLAB



NOTE OPEN SECTION OF U TYPE STIRRUP SHALL BE SET AT COMPRESSIVE FORCE SIDE OF THE BOTTOM AND TOP SLABS

LIST OF REINFORCEMENT

MARK	SECTION	LENGTH	EACH	WEIGHT/M	WEIGHT/ONE	WEIGHT	REMARKS
A1	#20	5000	112	2.47	12.4	1389	
2	#20	6620	228		16.4	3739	
3	#20	6450	114		15.9	1813	
4	#20	5000	224		12.4	2778	
5	#20	5000	224		12.4	2778	
						12497kg	
A6	#16	6560	228	1.56	10.2	2326	
7	#16	6450	114		10.1	1151	
8	#16	5700	228		8.89	2027	
9	#16	5000	112		7.80	874	
						6378kg	
T1	#12	10000	100	0.888	8.88	888	
2	#12	4300	100		3.82	382	
T1	#12	1540	308		1.37	422	
						1692kg	
S1	#12	10000	152	0.888	8.88	1350	
2	#12	4300	152		3.82	581	
S1	#12	650	504		0.577	291	
						2222kg	
B1	#12	10000	104	0.888	8.88	924	
2	#12	4300	104		3.82	397	
B1	#12	1640	308		1.46	450	
						1771kg	
C1	#20	2190	228	2.47	5.41	1233	
2	#20	1600	228		3.95	901	
						2134kg	
C3	#16	2690	228	1.56	4.20	958	
4	#16	1600	228		2.50	570	
						1528kg	
				#20	14631kg		
				#16	7906kg		
				#12	5685kg		
SUB TOTAL						28222kg	
(WING WALL)							
W1	#16	2830	31	1.56	4.41	137	
2	#16	2830	31		4.41	137	
3	#16	2500	10		3.90	39	
4	#16	2500	10		3.90	39	
						352kg	
W5	#12	2830	21	0.888	2.51	53	
6	#12	2830	21		2.51	53	
7	#12	3290	14		2.92	41	
8	#12	3290	14		2.92	41	
9	#12	3290	14		2.92	41	
10	#12	3290	14		2.92	41	
						270kg	
W11	#16	4000	38	1.56	6.24	237	
12	#16	1970	72		3.07	221	
						458kg	

MARK	SECTION	LENGTH	EACH	WEIGHT/M	WEIGHT/ONE	WEIGHT	REMARKS
W13	#12	7000	2	0.888	6.22	12	
14	#12	7000	2		6.22	12	
						24kg	
W15	#16	1920	25	1.56	3.00	75	
16	#16	10000	6		15.6	94	
17	#16	3560	6		5.55	33	
						202kg	
W18	#12	2000	4	0.888	1.78	7	
						7kg	
W1	#12	390	31	0.888	0.346	11	
						11kg	
						#16 1012kg x 2 = 2024kg	
						#12 312kg x 2 = 624kg	
SUB TOTAL						2648kg	
				#20	14631kg		
				#16	9930kg		
				#12	6309kg		
TOTAL						30870kg	

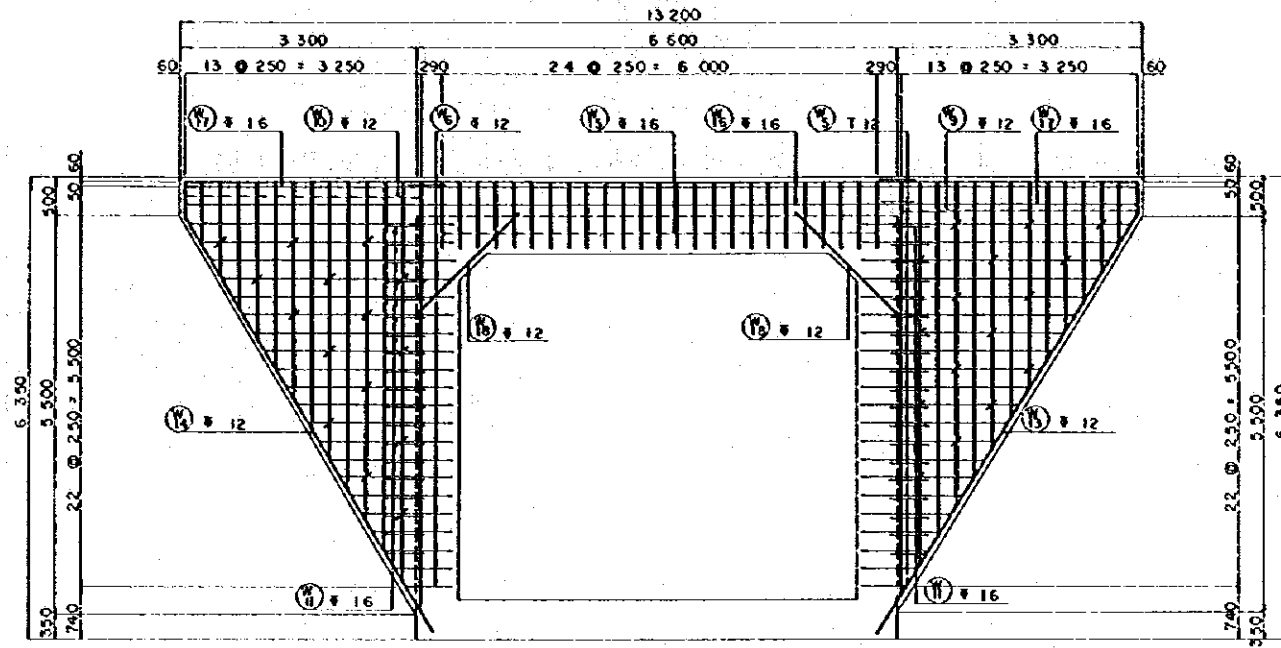
REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLIES TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS
BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN
BOX CULVERT
STA. 13+95.00
Scale 1:50 SHEET NO. 25/152
Date: 1980
JAPAN INTERNATIONAL COOPERATION AGENCY

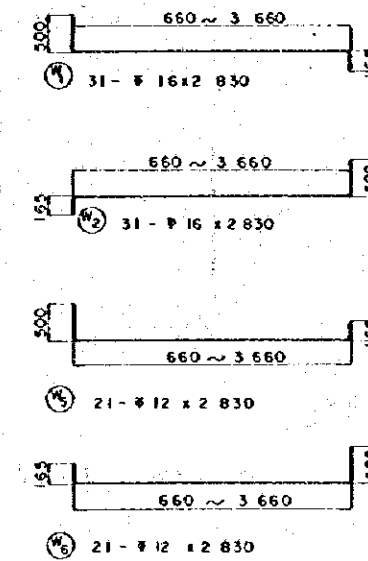
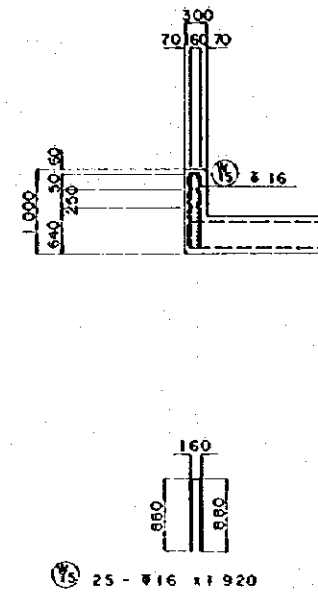
BAR ARRANGEMENT WING WALL

SCALE 1:50

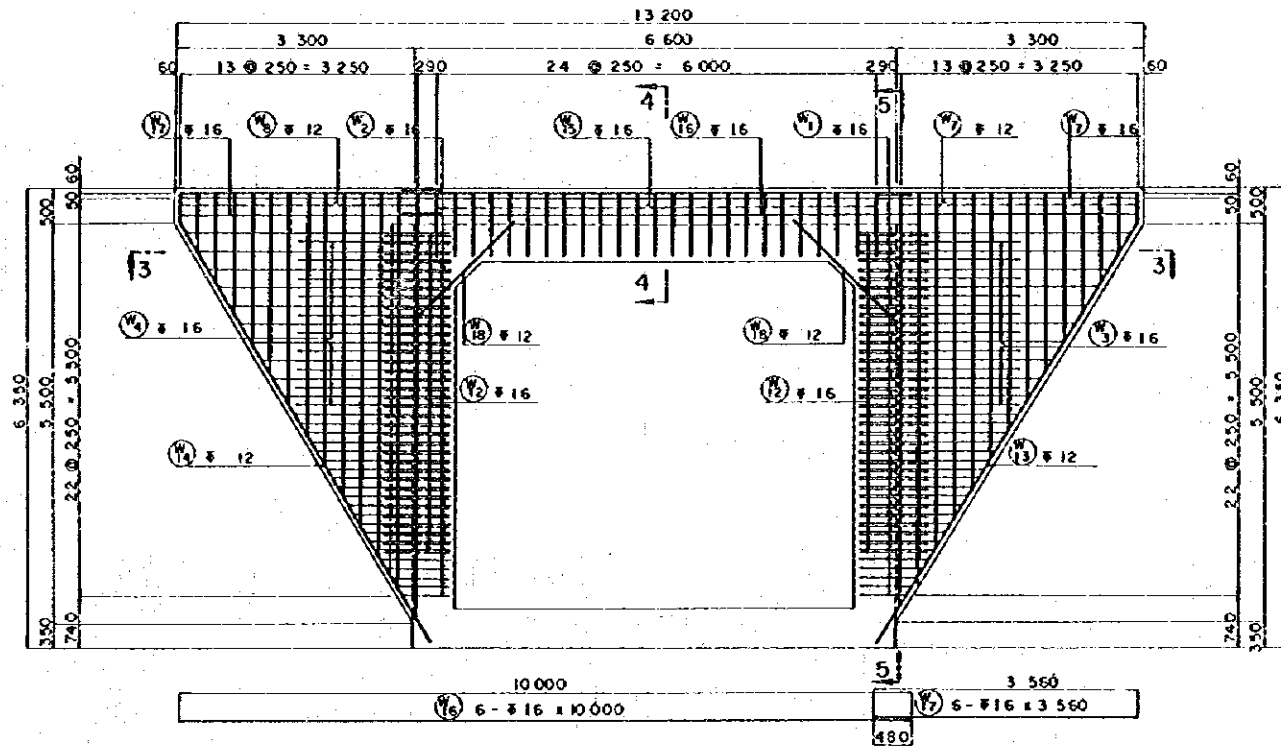
FRONT ELEVATION 1-1



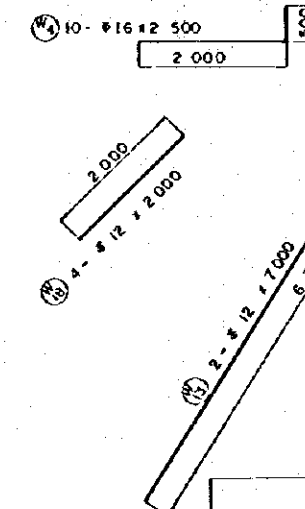
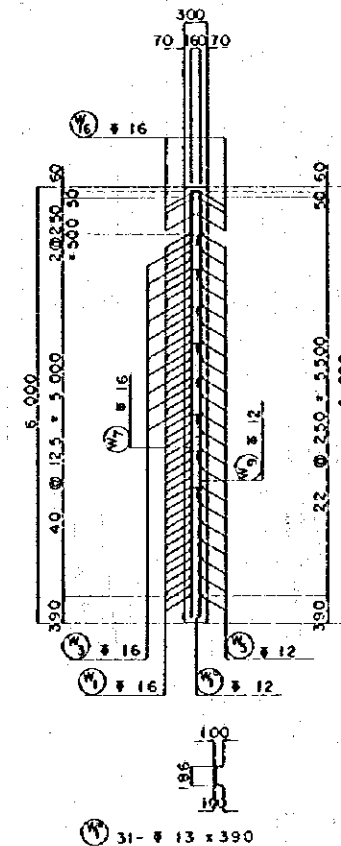
SECTION 4-4



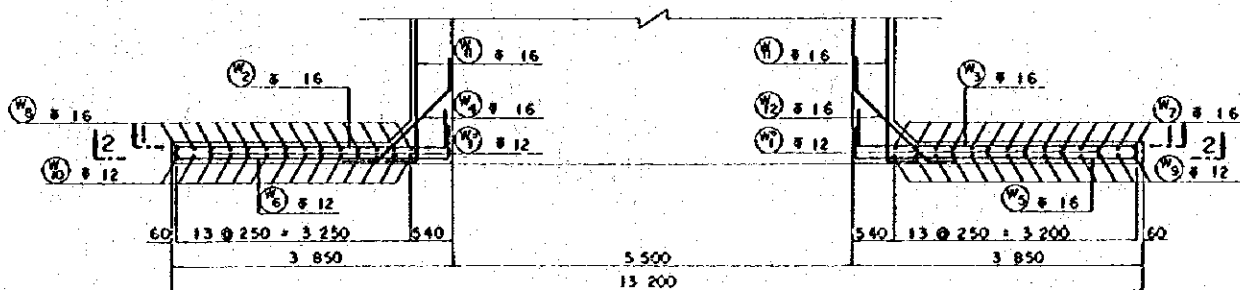
BACK ELEVATION 2-2



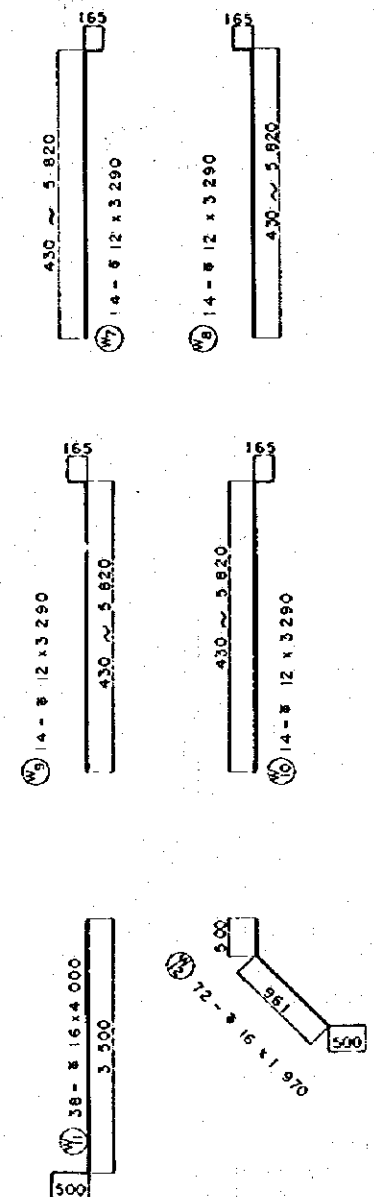
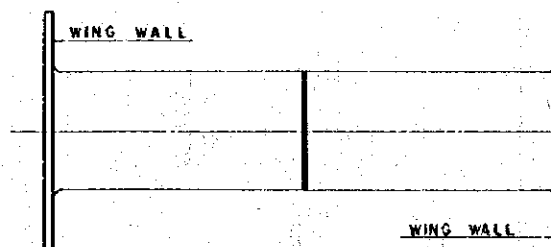
SECTION 5-5



SECTION 3-3



MARKING DIAGRAM



REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

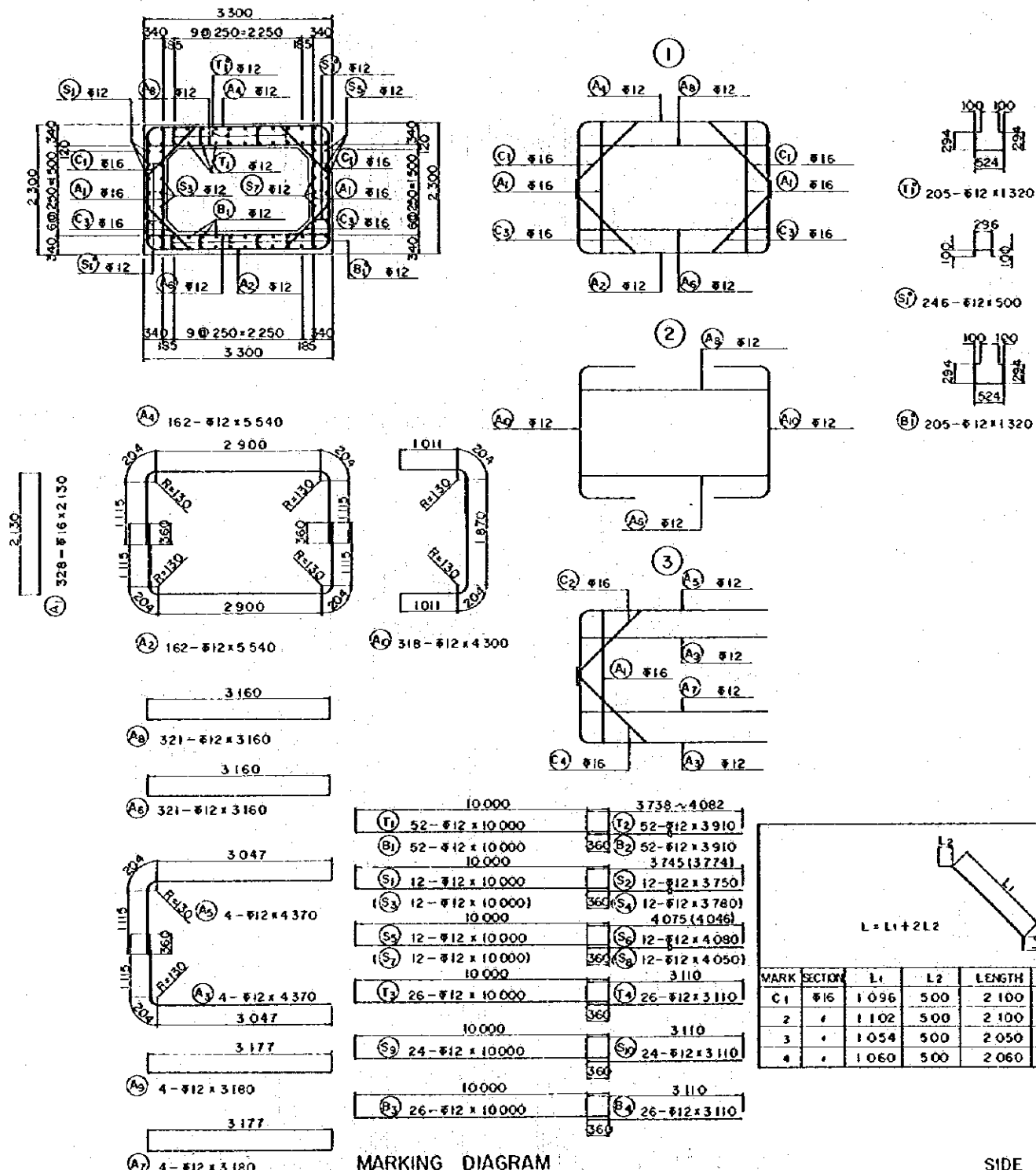
AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 13+95.00	
Scale 1 : 50	SHEET NO. 26 / 152
Date:	1990
JAPAN INTERNATIONAL COOPERATION AGENCY	

BAR ARRANGEMENT SCALE 1:50

LIST OF REINFORCEMENT

SECTION

COMBINATION OF REINFORCEMENT
c to c 125mm



MARK	SECTION	LENGTH	EACH	WEIGHT/M	WEIGHT/ONE	WEIGHT	REMARKS
(BODY)							
A1	Φ16	2130	328	1.56	3.32	1089	
A2	Φ12	5540	162	0.888	4.92	797	┘
3	Φ16	4370	4	3.88	16		┘
4	Φ16	5540	162	0.888	4.92	797	┘
5	Φ16	4370	4	3.88	16		┘
6	Φ16	3160	321	2.81	902		
7	Φ16	3180	4	2.82	11		
8	Φ16	3160	321	2.81	902		
9	Φ16	3150	4	2.82	11		
10	Φ16	4300	318	3.82	1215		┘
						4667kg	
T1	Φ12	10000	52	0.888	8.88	462	—
2	Φ12	3910	52	3.47	180		
3	Φ12	10000	26	8.88	231		
4	Φ12	3110	26	2.76	72		
T1	Φ12	1320	205	1.17	240		┘
						1185kg	
S1	Φ12	10000	12	0.888	8.88	107	—
2	Φ12	3750	12	3.33	40		
3	Φ12	10000	12	8.88	107		
4	Φ12	3780	12	3.36	40		
5	Φ12	10000	12	8.88	107		
6	Φ12	4080	12	3.62	43		
7	Φ12	10000	12	8.88	107		
8	Φ12	4050	12	3.60	43		
9	Φ12	10000	24	8.88	213		
10	Φ12	3110	24	2.76	33		
S1	Φ12	500	246	0.444	109		┘
						949kg	
B1	Φ12	10000	52	0.888	8.88	462	—
2	Φ12	3910	52	3.47	180		
3	Φ12	10000	26	8.88	231		
4	Φ12	3110	26	2.76	72		
B1	Φ12	1320	205	1.17	240		┘
						1185kg	
C1	Φ12	2100	324	1.56	3.28	1063	┘
2	Φ12	2100	2	3.28	7		
3	Φ12	2050	324	3.20	1037		
4	Φ12	2060	2	3.21	6		
						2113kg	
						Φ16 3202kg	
						Φ12 7986kg	
						SUB TOTAL 11188kg	

MARK	SECTION	LENGTH	EACH	WEIGHT/M	WEIGHT/ONE	WEIGHT	REMARKS
(LEFT WING WALL)							
W1	Φ12	2520	2	0.888	2.24	4	┘
2	Φ12	1890	4	1.68	7		
3	Φ12	2560	2	2.27	5		
4	Φ12	1930	4	1.71	7		
5	Φ12	2540	2	2.26	5		
6	Φ12	1910	4	1.70	7		
7	Φ12	2540	2	2.26	5		
8	Φ12	1910	4	1.70	7		
9	Φ12	1590	28	1.41	39		
10	Φ12	4000	10	3.55	36		
11	Φ12	2000	5	1.78	9		
12	Φ12	2150	5	1.91	10		
13	Φ12	3700	4	3.29	13		
14	Φ12	1300	13	1.15	15		
15	Φ12	6380	4	5.67	23		
16	Φ12	1500	8	1.33	11		
						203kg	
W1	Φ12	390	8	0.888	0.346	3	┘
						3kg	
						Φ12 203kg x 2 = 406kg	
						SUB TOTAL 406kg	
						Φ16 3202kg	
						Φ12 8392kg	
						TOTAL 11594kg	

MARK	SECTION	L1	L2	LENGTH	EACH
C1	Φ16	1096	500	2100	324
2	Φ16	1102	500	2100	2
3	Φ16	1054	500	2050	324
4	Φ16	1060	500	2060	2

DISPOSITION OF STIRRUP
SIDE WALL BOTTOM AND TOP SLAB



NOTE OPEN SECTION OF U TYPE STIRRUP SHALL BE SET AT COMPRESSIVE FORCE SIDE OF THE BOTTOM AND TOP SLABS

REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

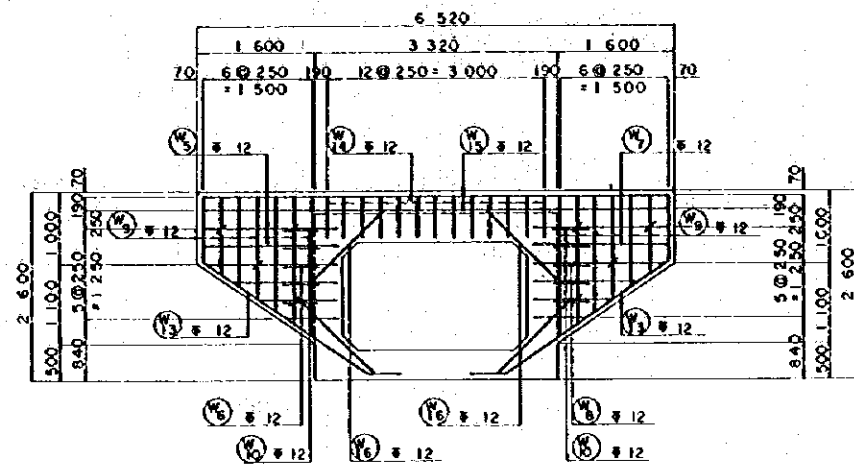
AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS
BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN

BOX CULVERT
STA. 15+13.40

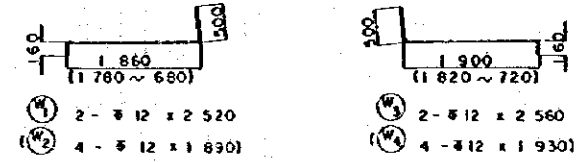
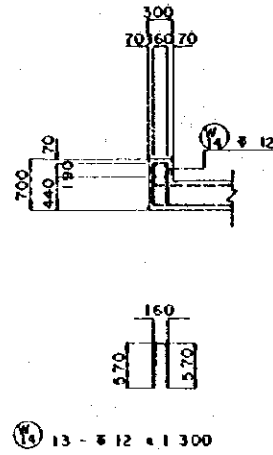
Scale 1 : 50 SHEET NO. 28 / 152
Date: 1980
JAPAN INTERNATIONAL COOPERATION AGENCY

BAR ARRANGEMENT WING WALL SCALE 1:50

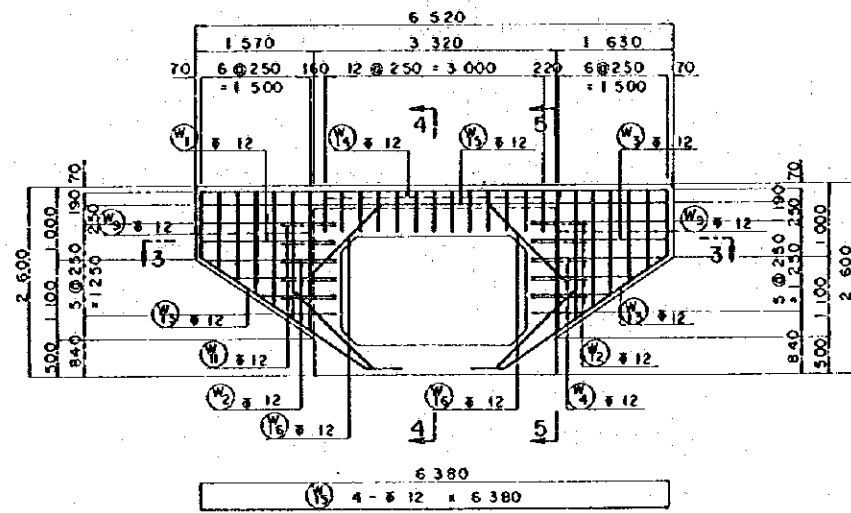
FRONT ELEVATION 1 - 1



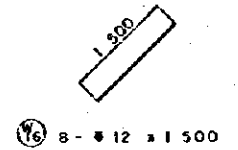
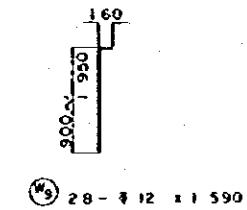
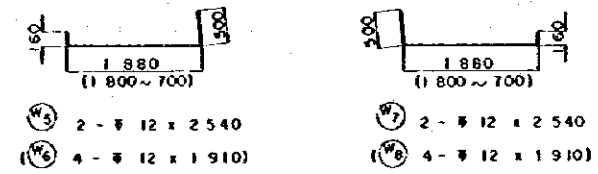
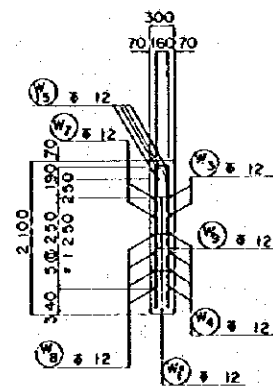
SECTION 4 - 4



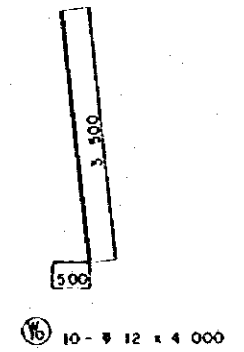
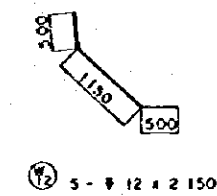
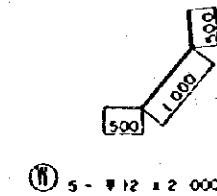
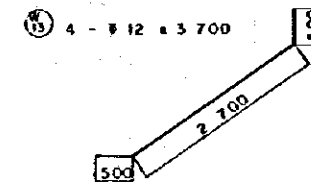
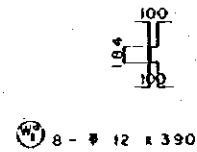
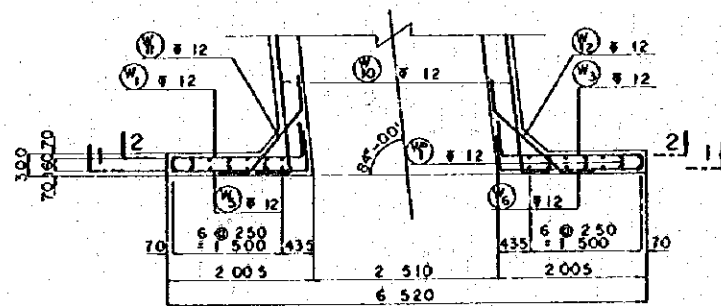
BACK ELEVATION 2 - 2



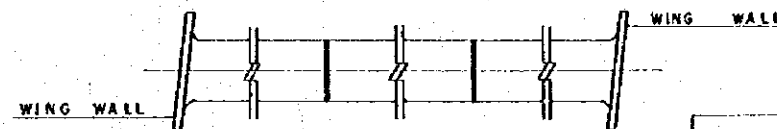
SECTION 5 - 5



SECTION 3 - 3



MARKING DIAGRAM

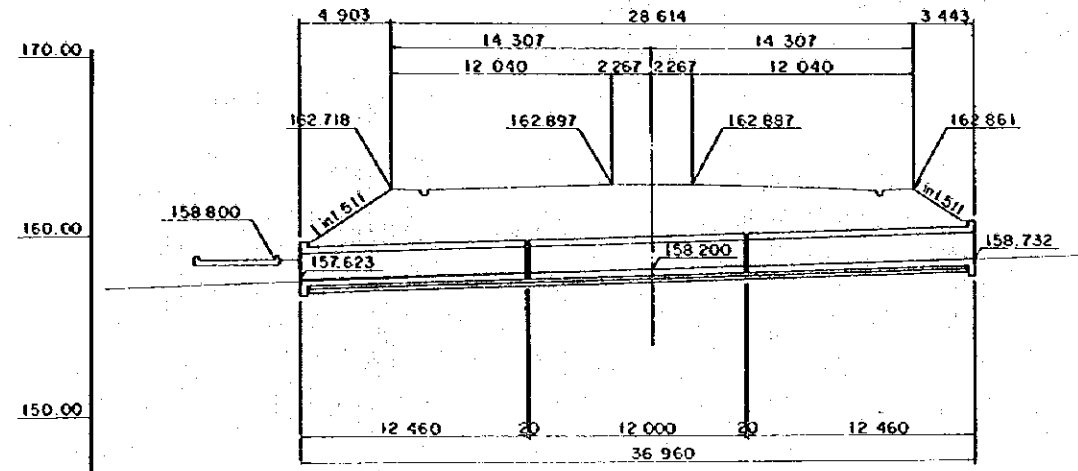


REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

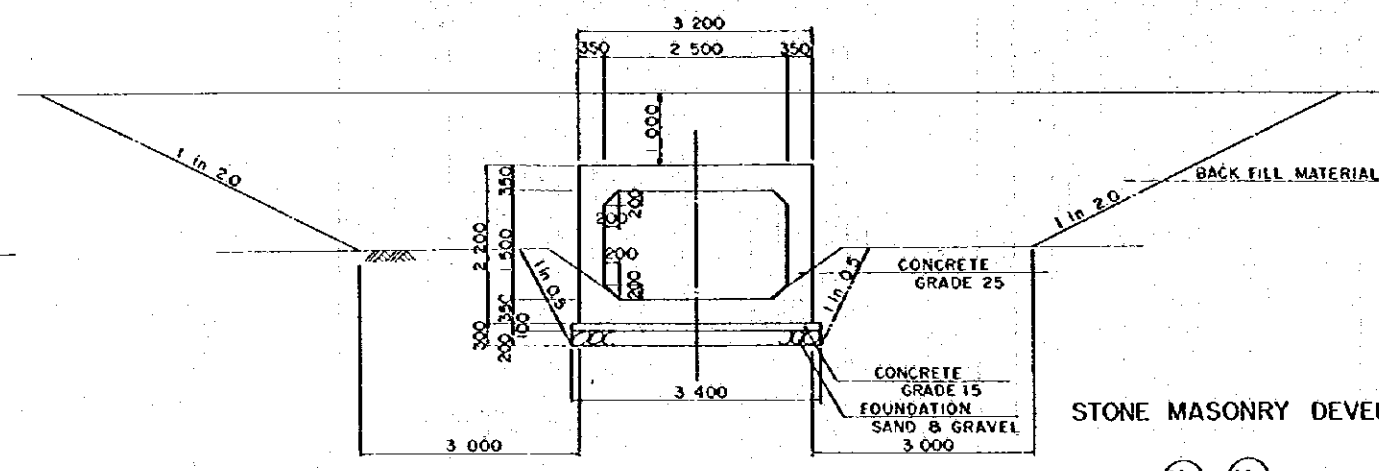
AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 15+13.40	
Scale 1:50	SHEET NO. 29/152
Date:	1980
JAPAN INTERNATIONAL COOPERATION AGENCY	

STA. 15+66.00 C-Bx 2.50 x 1.50 x 39.60 R83°

PROFILE SCALE 1:200



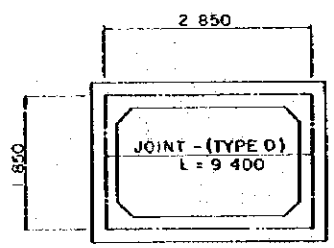
TYPICAL CROSS SECTION SCALE 1:50



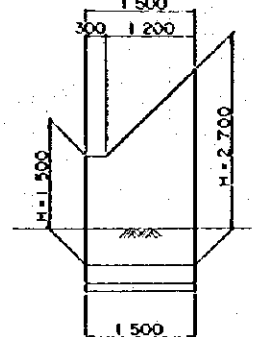
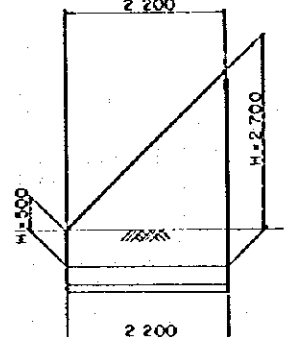
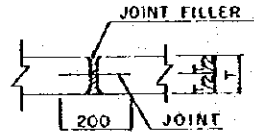
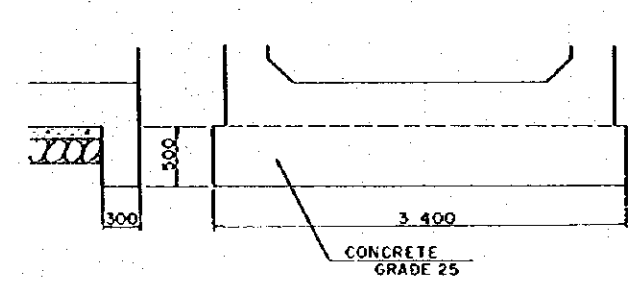
STONE MASONRY DEVELOPMENT SCALE 1:50

(M3) (M4) (M1) (M2)

JOINT

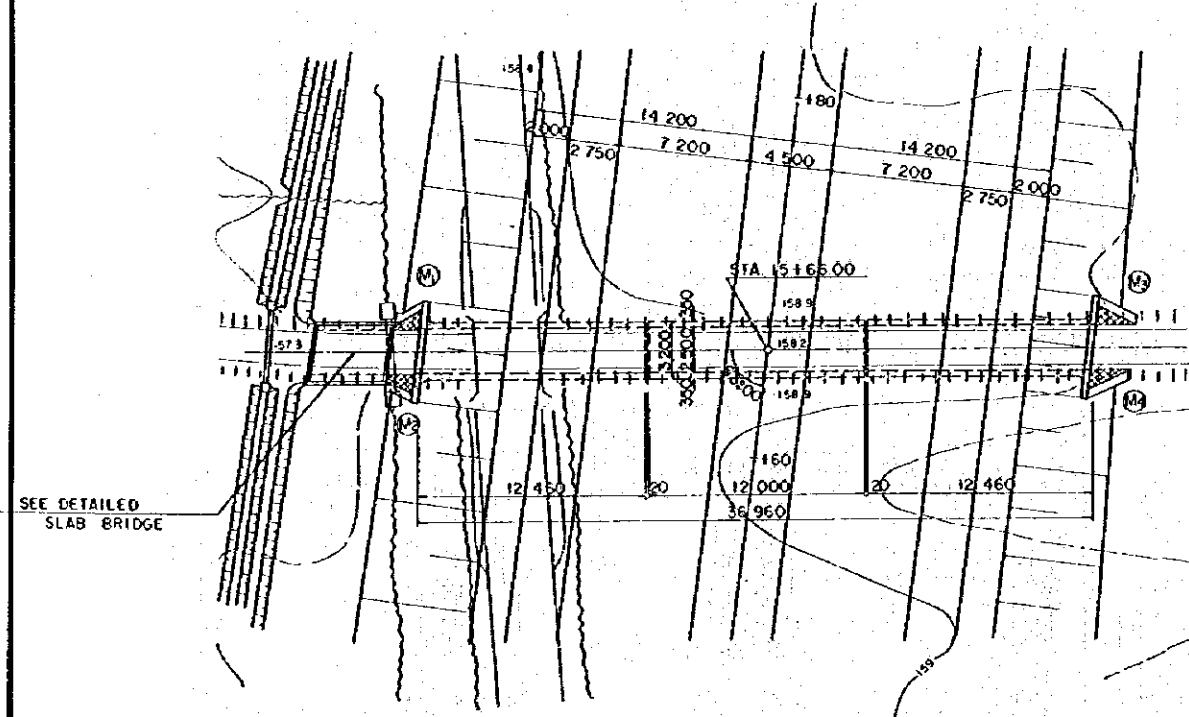


WATER STOP SCALE 1:30

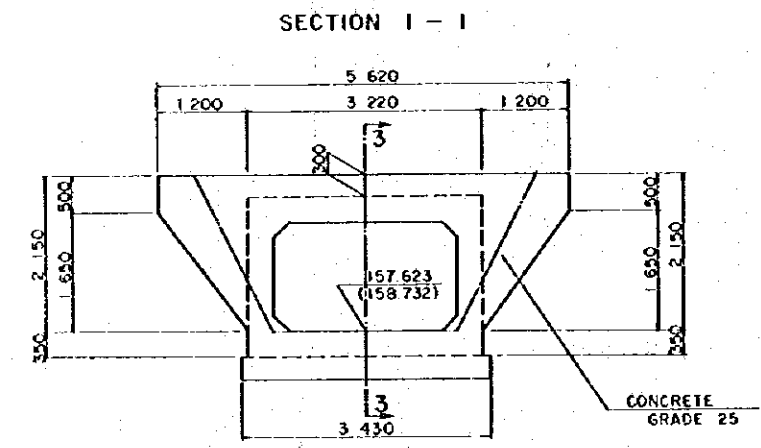


DL = 140.00			
GRADE	157.623	158.200	158.732
PROPOSED HEIGHT		1.500	
GROUND HEIGHT	157.623	158.200	158.732
DISTANCE	19.210	0.000	17.750
STATION	152.10	157.60	158.75

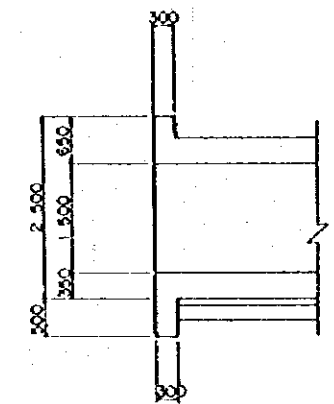
PLAN SCALE 1:200



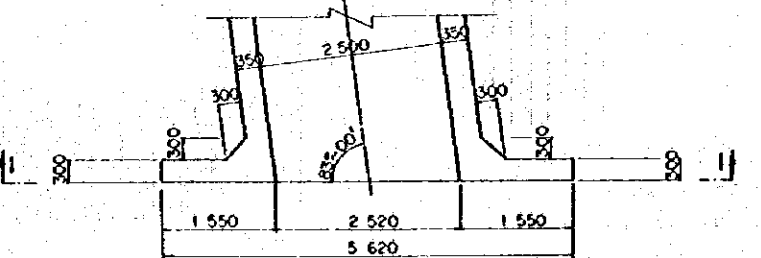
WING WALL SCALE 1:50



SECTION 3-3



SECTION 2-2



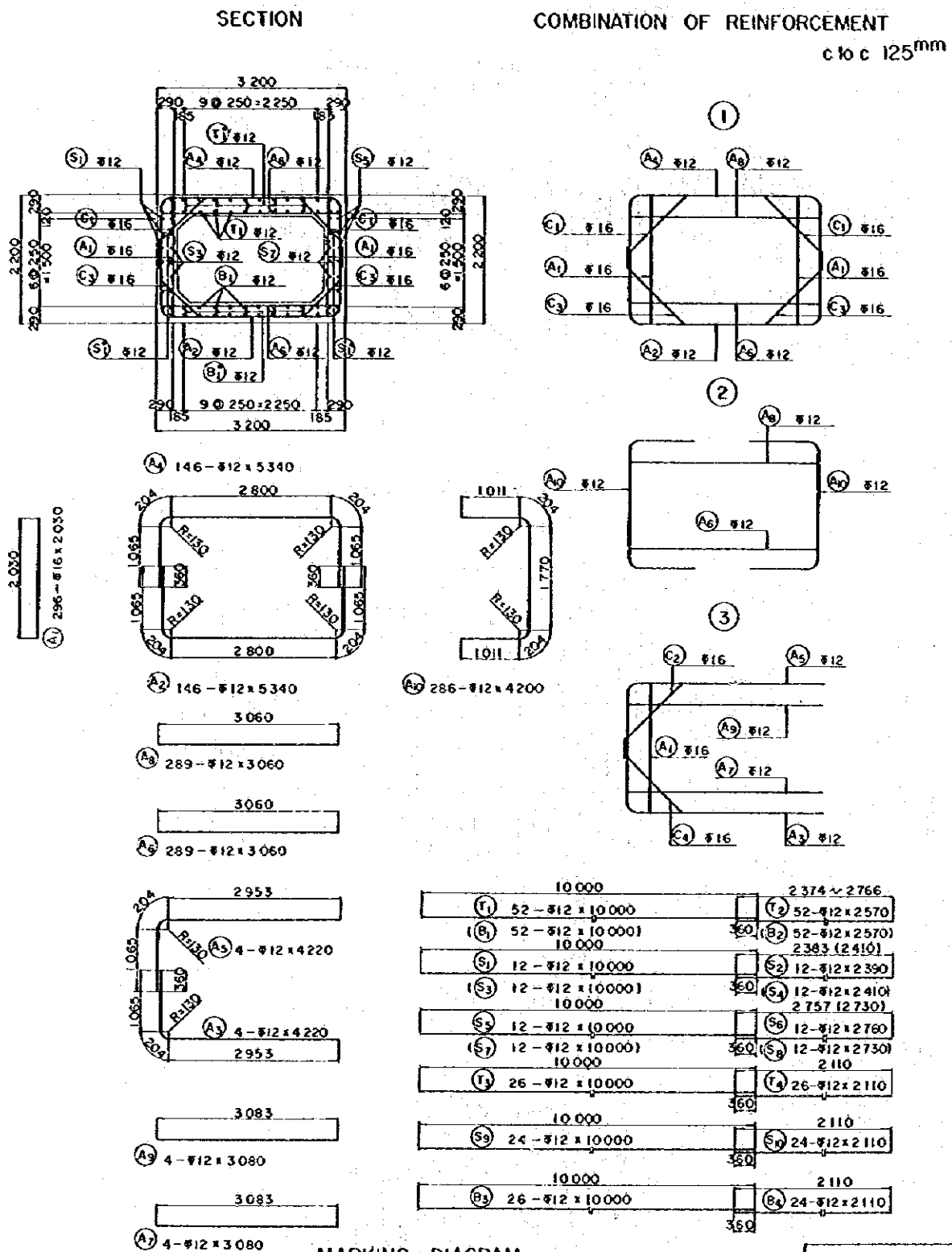
REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS
BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN

BOX CULVERT
STA 15+66.00
Scale 1:200,50,30 SHEET NO. 30/152
Date: 1990
JAPAN INTERNATIONAL COOPERATION AGENCY

BAR ARRANGEMENT SCALE 1:50

LIST OF REINFORCEMENT

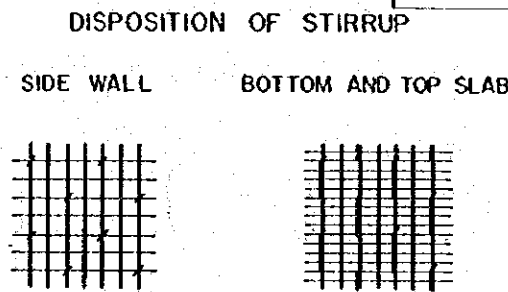


MARK SECTION	LENGTH	EACH	WEIGHT /M	WEIGHT	REMARKS
(BODY)					
A1	2030	296	1.56	3.17	938kg
A2	5340	146	0.888	4.74	692
3	4220	4	3.75	15	L
4	5340	146	4.74	692	L
5	4220	4	3.75	15	L
6	3060	289	2.72	786	—
7	3080	4	2.74	11	—
8	3060	289	2.72	786	—
9	3080	4	2.74	11	—
10	4200	286	3.73	1067	—
4075kg					
T1	10000	52	0.888	8.88	462
2	2570	52	2.82	147	—
3	10000	26	8.88	231	—
4	2110	26	1.87	55	—
T1	1220	190	1.08	205	—
1100kg					
S1	10000	12	0.888	8.88	107
2	2390	12	2.12	25	—
3	10000	12	8.88	107	—
4	2410	12	2.14	26	—
5	10000	12	8.88	107	—
6	2760	12	2.45	29	—
7	10000	12	8.88	107	—
8	2730	12	2.42	29	—
9	10000	24	8.88	213	—
10	2110	24	1.87	45	—
S1	450	228	0.400	91	—
886kg					
B1	10000	52	0.888	8.88	462
2	2570	52	2.28	119	—
3	10000	26	8.88	231	—
4	2110	24	1.87	45	—
B1	1220	190	1.08	205	—
1062kg					
C1	1960	292	1.56	3.06	894
2	1960	2	3.06	6	—
3	1910	292	2.98	870	—
4	1920	2	3.00	6	—
1776kg					
SUB TOTAL 9837kg					

MARK SECTION	LENGTH	EACH	WEIGHT /M	WEIGHT	REMARKS
(LEFT WING WALL)					
W1	1630	6	0.688	1.45	—
2	1670	6	1.48	9	—
3	1650	6	1.47	9	—
4	1650	6	1.47	9	—
5	1260	20	1.12	22	—
6	4000	10	3.55	36	—
7	2000	4	1.78	7	—
8	2100	4	1.87	7	—
9	3300	4	2.93	12	—
10	1200	13	1.07	14	—
11	5480	4	4.87	19	—
12	1500	4	1.33	5	—
13	1200	4	1.07	4	—
14	1540	13	1.37	18	—
15	1200	2	1.07	2	—
16	3290	4	2.92	12	—
194kg					
W1	390	6	0.888	0.346	2
2kg					
SUB TOTAL 392kg					
TOTAL 10229kg					

(T1) 52 - #12 x 10000	360	(T2) 52 - #12 x 2570	360
(B1) 52 - #12 x 10000	360	(B2) 52 - #12 x 2570	360
(S1) 12 - #12 x 10000	360	(S2) 12 - #12 x 2390	360
(S3) 12 - #12 x 10000	360	(S4) 12 - #12 x 2410	360
(S5) 12 - #12 x 10000	360	(S6) 12 - #12 x 2760	360
(S7) 12 - #12 x 10000	360	(S8) 12 - #12 x 2730	360
(T3) 26 - #12 x 10000	360	(T4) 26 - #12 x 2110	360
(S9) 24 - #12 x 10000	360	(S10) 24 - #12 x 2110	360
(B3) 26 - #12 x 10000	360	(B4) 24 - #12 x 2110	360

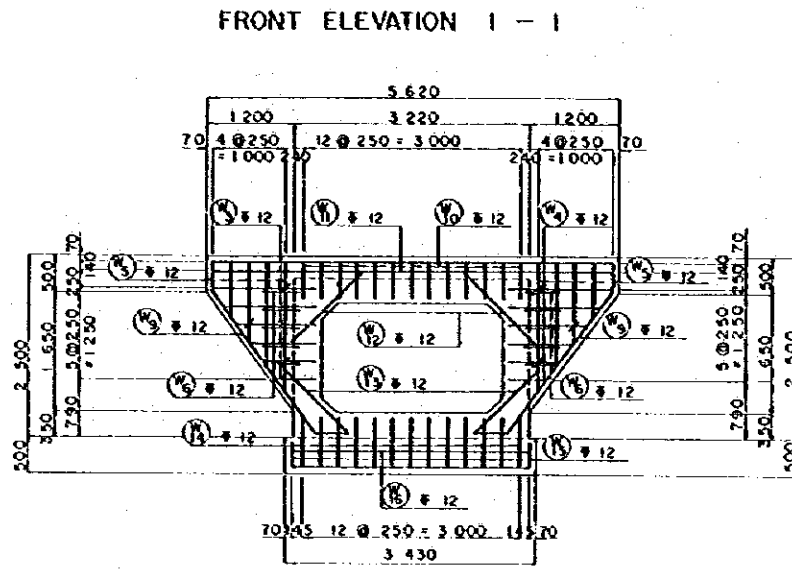
REDUCED PLAN
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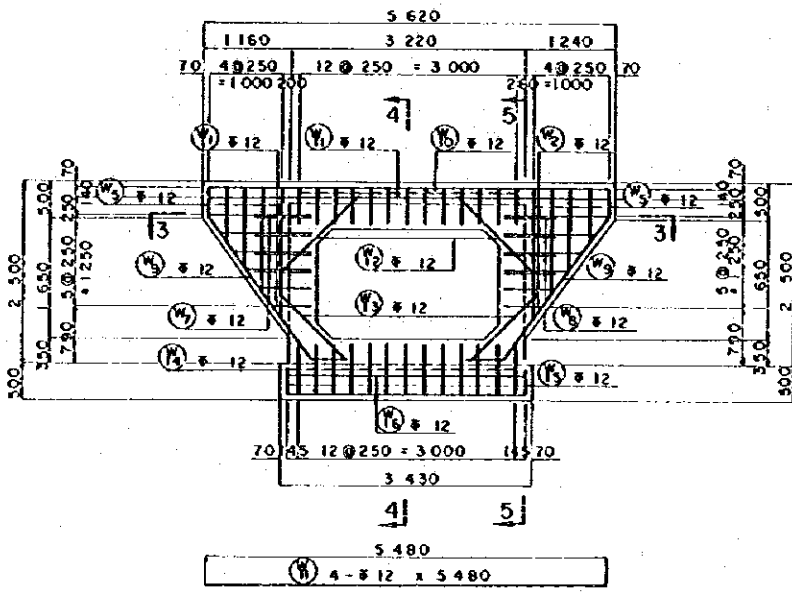
AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS
BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN
BOX CULVERT
STA. 15+66.00
Scale 1:50 SHEET NO. 31/152
Date: 1980
JAPAN INTERNATIONAL COOPERATION AGENCY

MARK SECTION	L1	L2	LENGTH	EACH	
C1	#16	955	500	1960	292
2	#16	962	500	1960	2
3	#16	912	500	1910	292
4	#16	919	500	1920	2

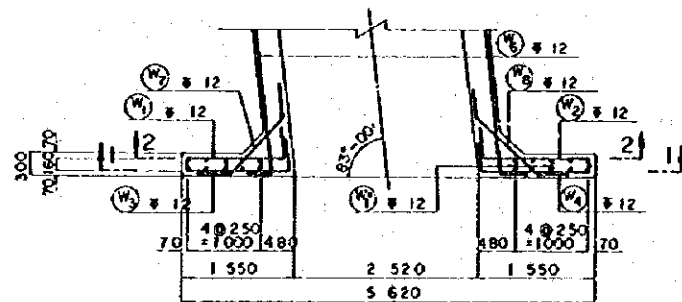
BAR ARRANGEMENT WING WALL SCALE 1:50



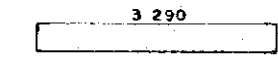
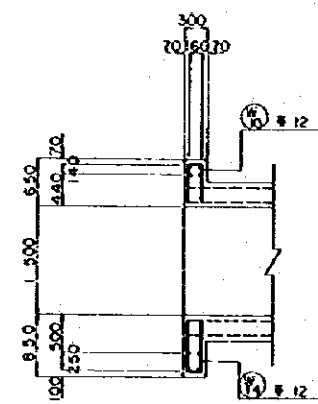
BACK ELEVATION 2-2



SECTION 3-3

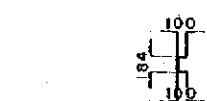
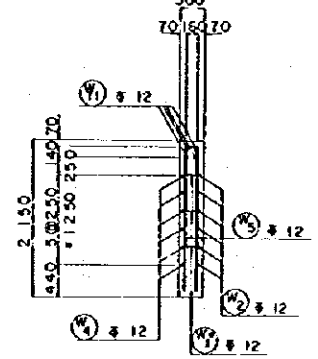


SECTION 4-4

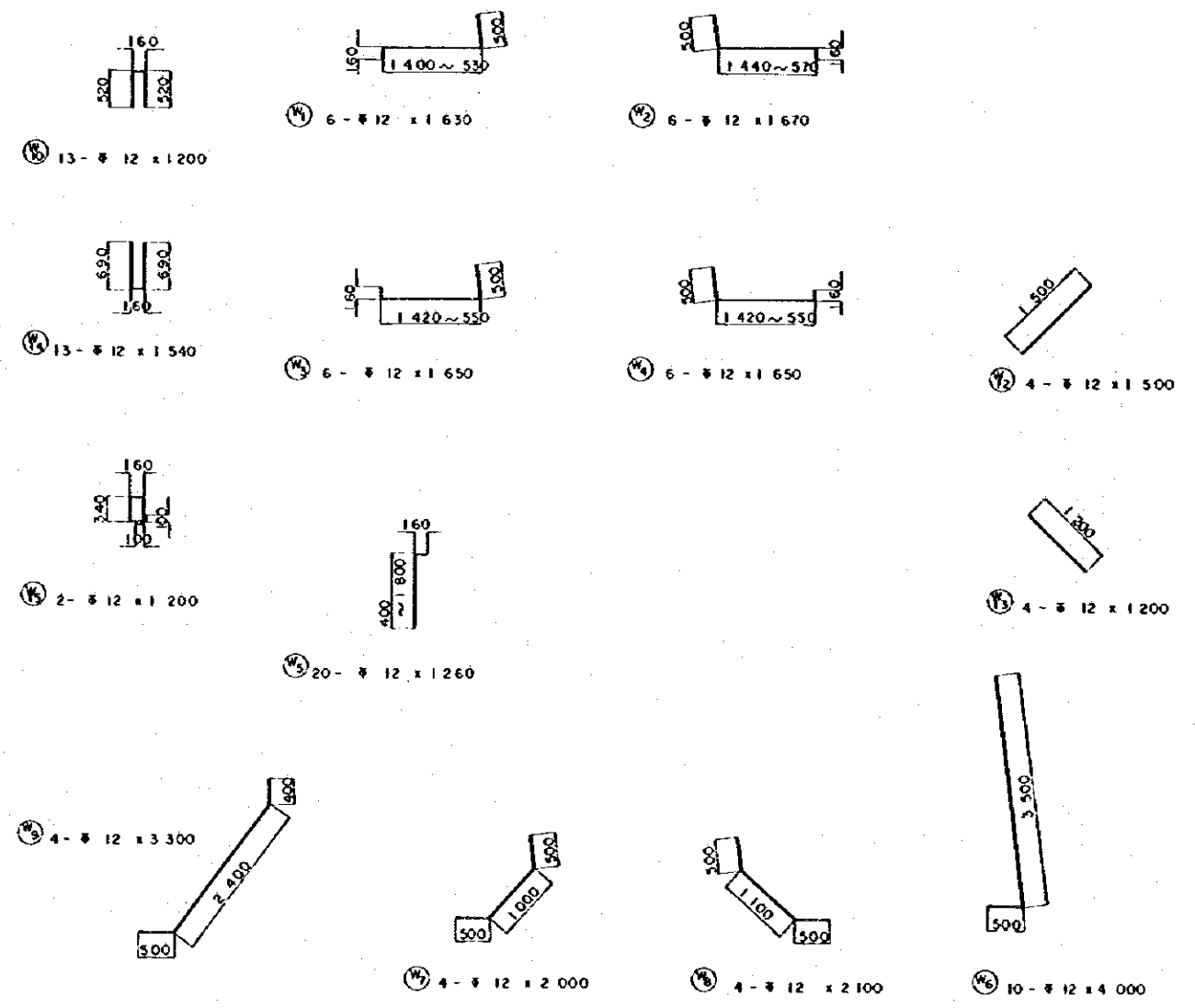


4 - # 12 x 3 290

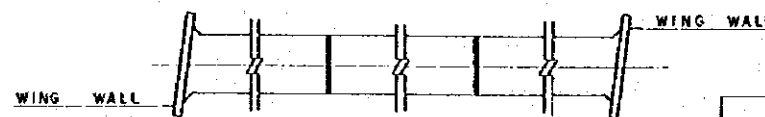
SECTION 5-5



6 - # 12 x 390



MARKING DIAGRAM

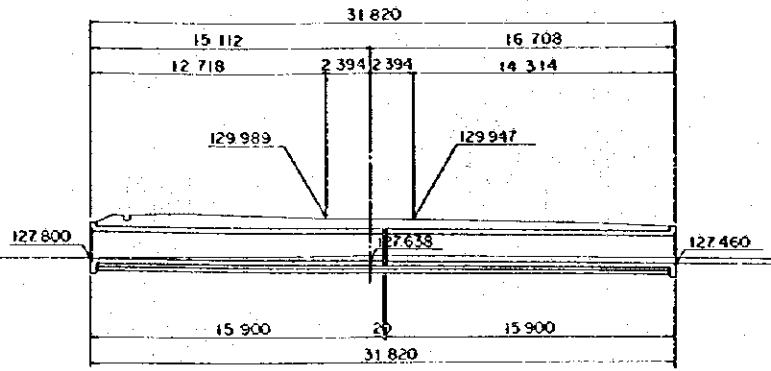


REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

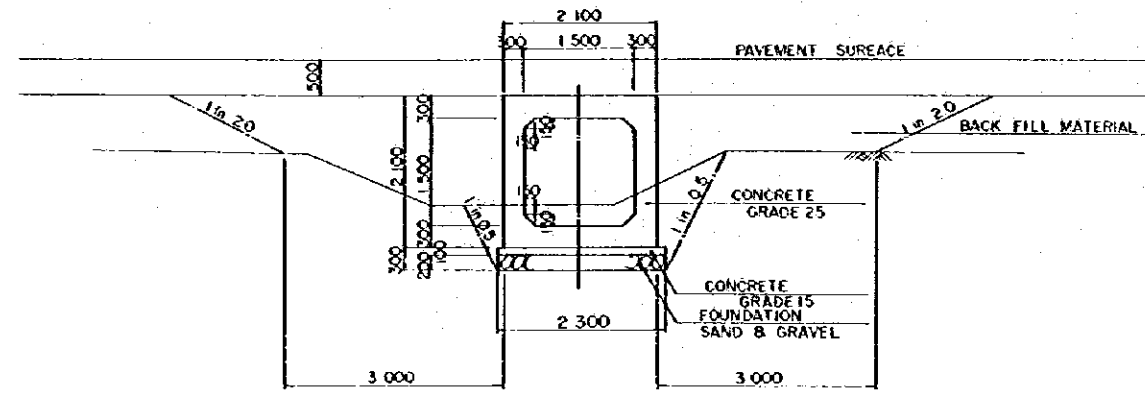
AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 15+66.00	
Scale 1:50	SHEET NO. 32/152
Date:	1980
JAPAN INTERNATIONAL COOPERATION AGENCY	

STA. 27+82.00 C-Bx 1.50x1.50x31.82 R 70°

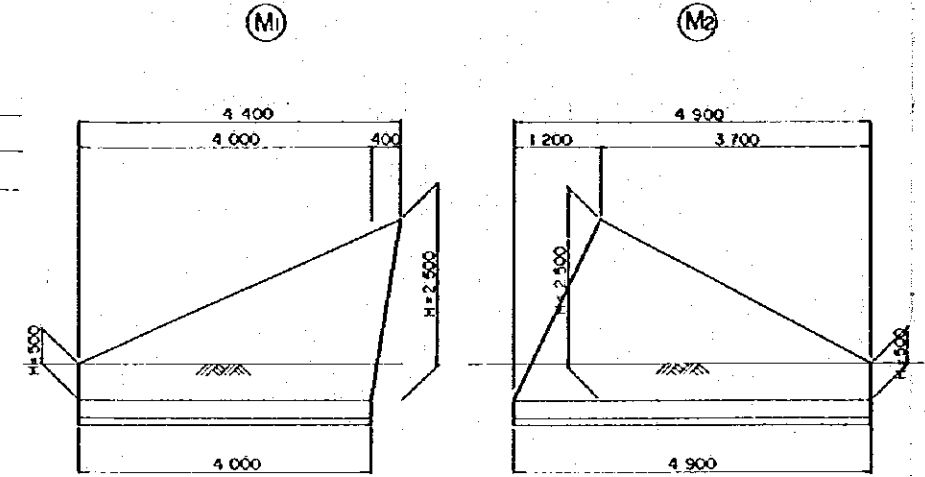
PROFILE SCALE 1:200



TYPICAL CROSS SECTION SCALE 1:50

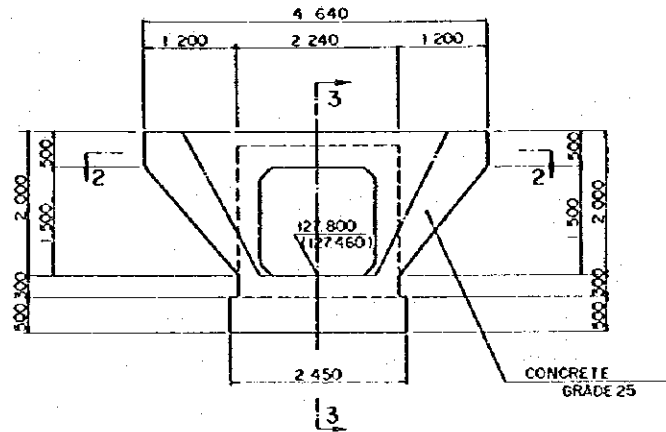


STONE MASONRY DEVELOPMENT SCALE 1:50

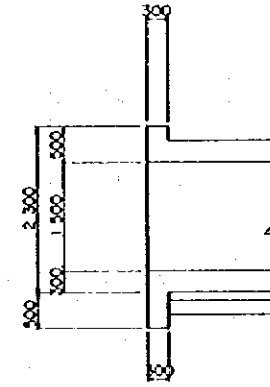


WING WALL SCALE 1:50

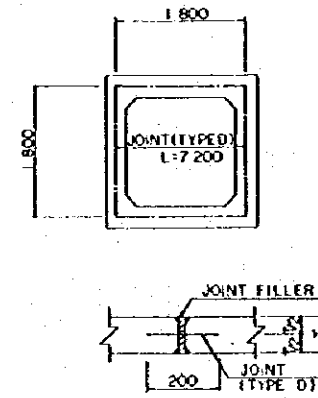
SECTION 1-1



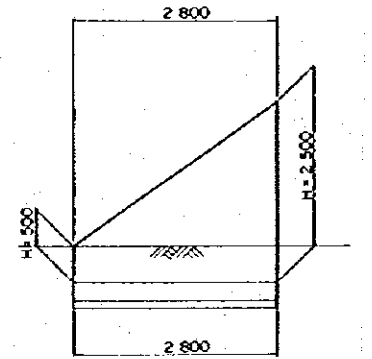
SECTION 3-3



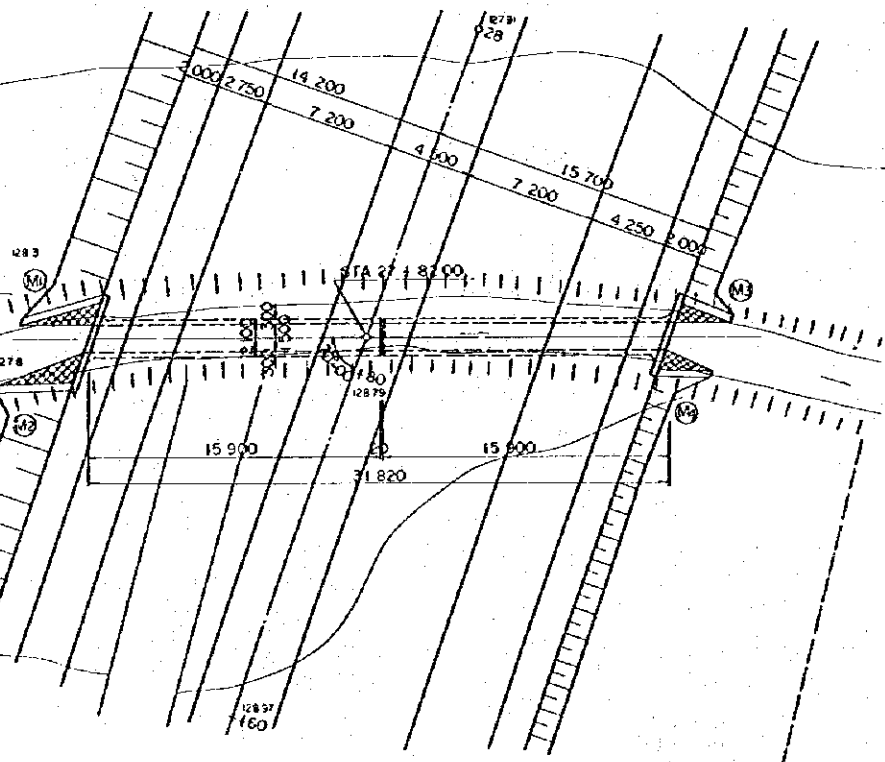
JOINT



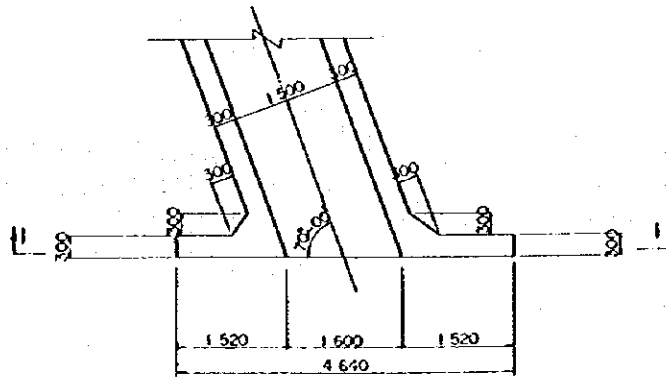
M3 M4



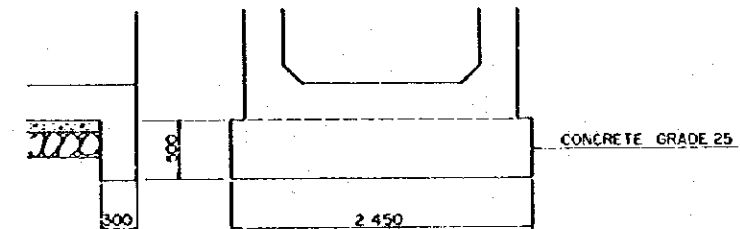
PLAN SCALE 1:200



SECTION 2-2



WATER STOP SCALE 1:30



REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

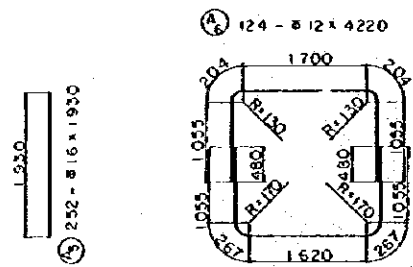
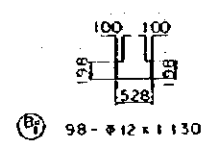
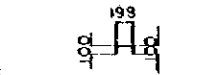
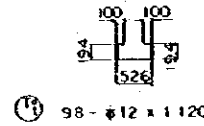
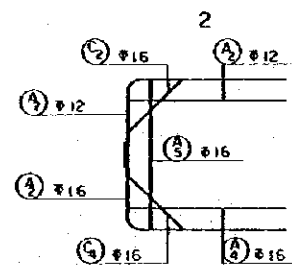
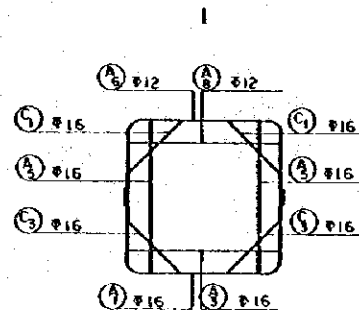
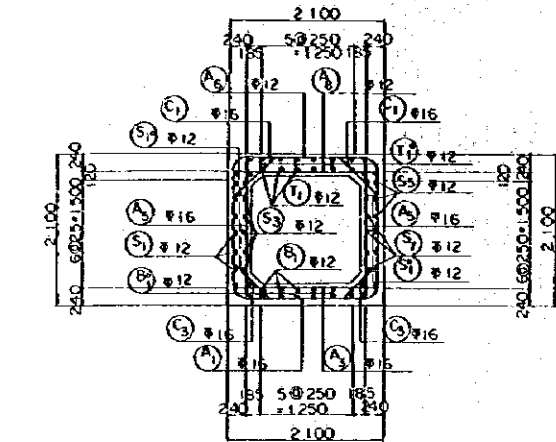
AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 27+82.00	
Scale 1:30,50,200	SHEET NO. 33/152
Date:	1980
JAPAN INTERNATIONAL COOPERATION AGENCY	

BAR ARRANGEMENT SCALE 1:50

LIST OF REINFORCEMENT

SECTION

COMBINATION OF REINFORCEMENT
c to c 250mm



124 - #16 x 4 260

124 - #12 x 1960

124 - #16 x 1960

124 - #12 x 1960

4 - #12 x 3 220

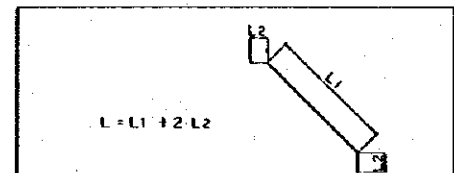
4 - #16 3240

4 - #12 x 2 090

4 - #12 x 2 090

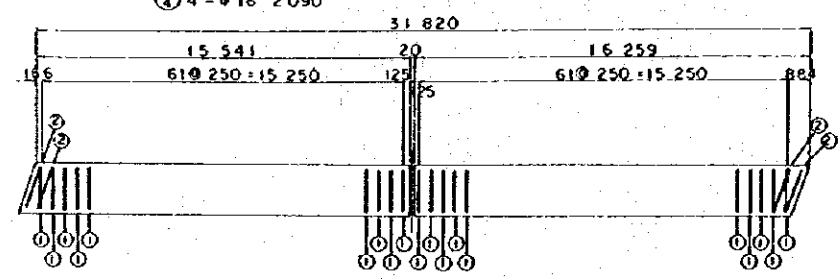
4 - #16 2 090

10,000	36	#12 x 10,000	5,651 ~ 6,369
10,000	36	#12 x 10,000	5,675
10,000	36	#12 x 10,000	5,733
10,000	36	#12 x 10,000	6,345
10,000	36	#12 x 10,000	6,287
10,000	36	#12 x 10,000	5,651 ~ 6,369



MARK	SECTION	L1	L2	LENGTH	EACH
C 1	#16	743	500	1 740	248
2	"	791	500	1 790	4
3	"	700	500	1 700	248
4	"	745	500	1 750	4

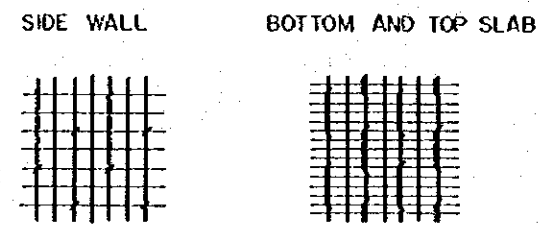
MARKING DIAGRAM



MARK	SECTION	LENGTH	EACH	WEIGHT/M	WEIGHT/ONE	WEIGHT	REMARKS
(BODY)							
A 1	#16	4 260	124	1.56	6.65	825	L
2	"	3 240	4	"	5.05	20	L
3	"	1 960	124	"	3.06	379	—
4	"	2 090	4	"	3.26	13	"
5	"	1 930	252	"	3.01	759	
							1936 kg
A 6	#12	4 220	124	0.888	3.75	465	□
7	"	3 220	4	"	2.86	11	□
8	"	1 960	124	"	1.74	216	—
9	"	2 070	4	"	1.86	7	"
							699 kg
T 1	#12	10 000	36	0.888	8.88	320	—
2	"	6 010	36	"	5.34	192	"
							512 kg
T*	#12	1 120	98	0.888	0.995	98	□
							98 kg
S 1	#12	10 000	12	0.888	8.88	107	—
2	"	5 680	12	"	5.04	60	"
3	"	10 000	12	"	8.88	107	"
4	"	5 740	12	"	5.10	61	"
5	"	10 000	12	"	8.88	107	"
6	"	6 350	12	"	5.64	68	"
7	"	10 000	12	"	8.88	107	"
8	"	6 290	12	"	5.59	67	"
							684 kg
S*	#12	400	196	0.888	0.355	70	□
							70 kg
B 1	#12	10 000	36	0.888	8.88	320	—
2	"	6 010	36	"	5.34	192	"
							512 kg
B*	#12	1 130	98	0.888	1.00	98	□
							98 kg
C 1	#16	1 740	248	1.56	2.71	672	□
2	"	1 790	4	"	2.79	11	"
3	"	1 700	248	"	2.65	657	"
4	"	1 750	4	"	2.73	11	"
							1 351 kg
				#16	3 347 kg		
				#12	2 673 "		
						6 020 kg	

MARK	SECTION	LENGTH	EACH	WEIGHT/M	WEIGHT/ONE	WEIGHT	REMARKS
(LEFT WING WALL)							
W 1	#12	1 550	6	0.888	1.38	8	□
2	"	1 670	6	"	1.48	9	□
3	"	1 610	6	"	1.43	9	□
4	"	1 610	6	"	1.43	9	□
5	"	1 190	20	"	1.06	21	□
6	"	4 000	10	"	3.55	36	□
7	"	1 850	4	"	1.64	7	□
8	"	2 150	4	"	1.91	8	□
9	"	3 100	4	"	2.75	11	□
10	"	910	9	"	0.808	7	□
11	"	4 500	2	"	4.00	8	□
12	"	1 200	4	"	1.07	4	□
13	"	1 000	4	"	0.888	4	□
14	"	1 450	9	"	1.29	12	□
15	"	1 220	2	"	1.08	2	□
16	"	2 310	4	"	2.05	8	□
							163 kg
W*	#12	390	6	0.888	0.346	2	□
							2 kg
				#12	165 kg	2 x 330 kg	
						SUB TOTAL	330 kg
				#16	3 347 kg		
				#12	3 003 "		
						TOTAL	6 350 kg

DISPOSITION OF STIRRUP



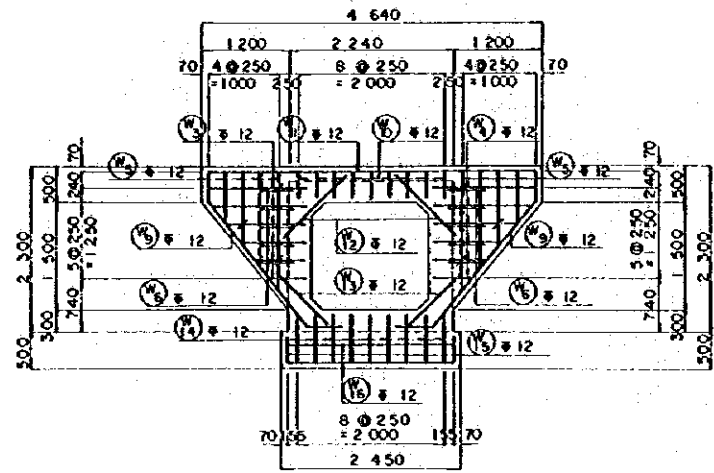
NOTE OPEN SECTION OF U TYPE STIRRUP SHALL BE SET AT COMPRESSIVE FORCE SIDE OF THE BOTTOM AND TOP SLABS

REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

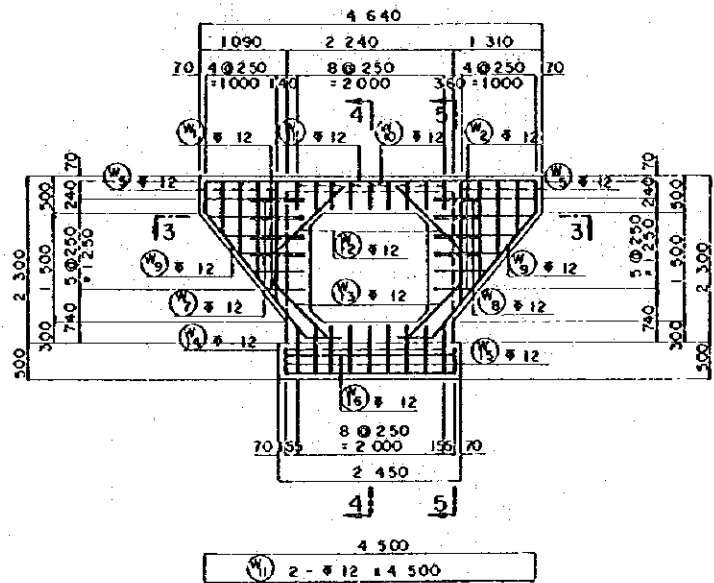
AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS
BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN
BOX CULVERT
STA. 27 + 82.00
Scale 1 : 50 SHEET NO. 34/152
Date: 1980
JAPAN INTERNATIONAL COOPERATION AGENCY

BAR ARRANGEMENT WING WALL SCALE 1:50

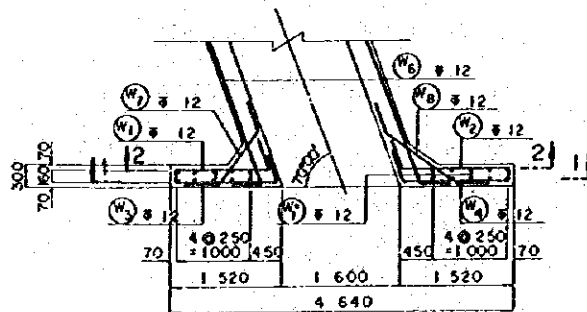
FRONT ELEVATION 1-1



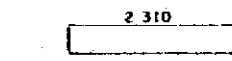
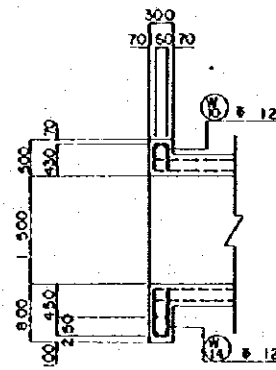
BACK ELEVATION 2-2



SECTION 3-3

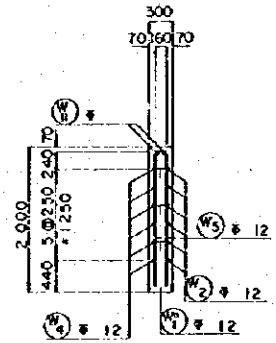


SECTION 4-4

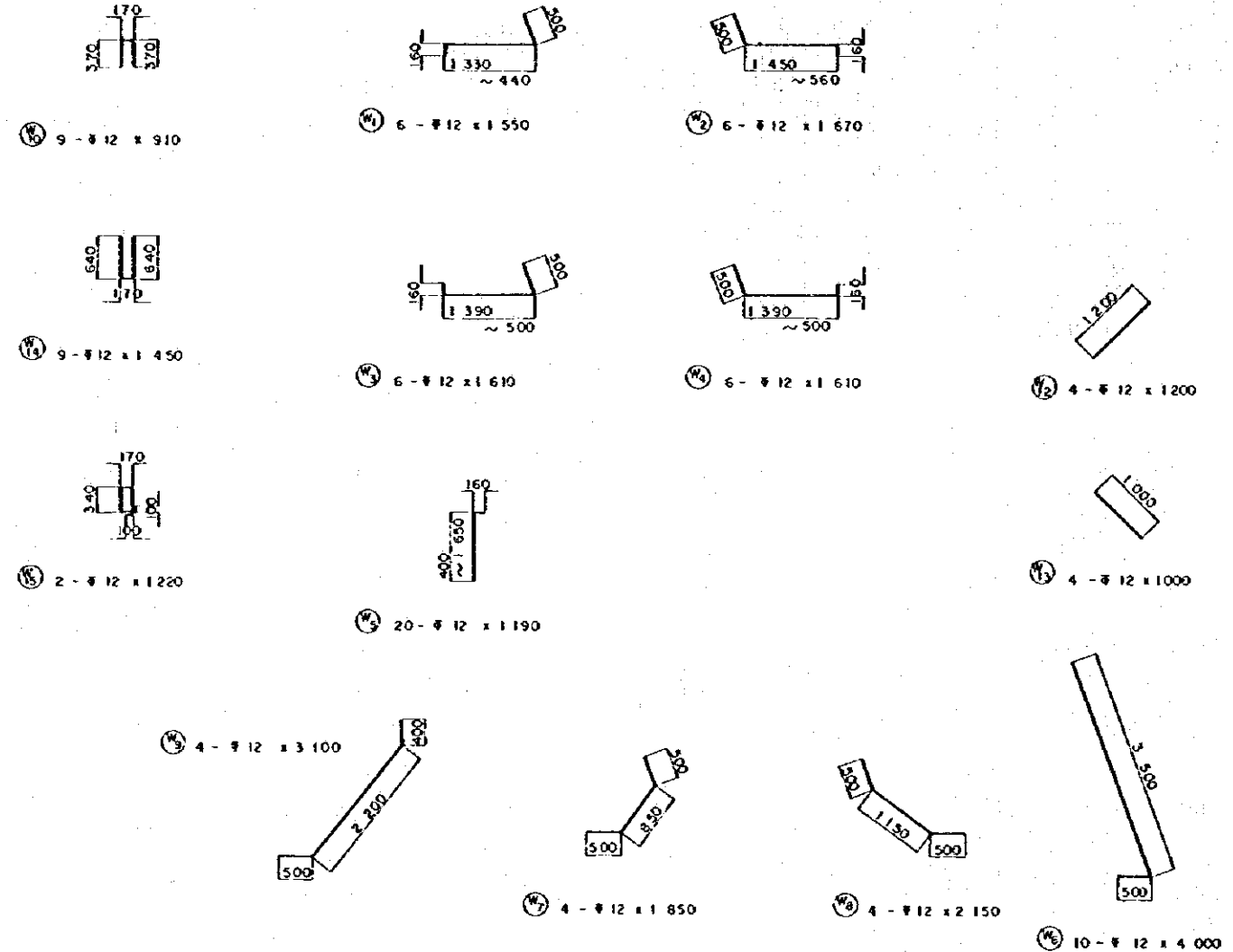


4 - # 12 x 2 310

SECTION 5-5



6 - # 12 x 390



MARKING DIAGRAM



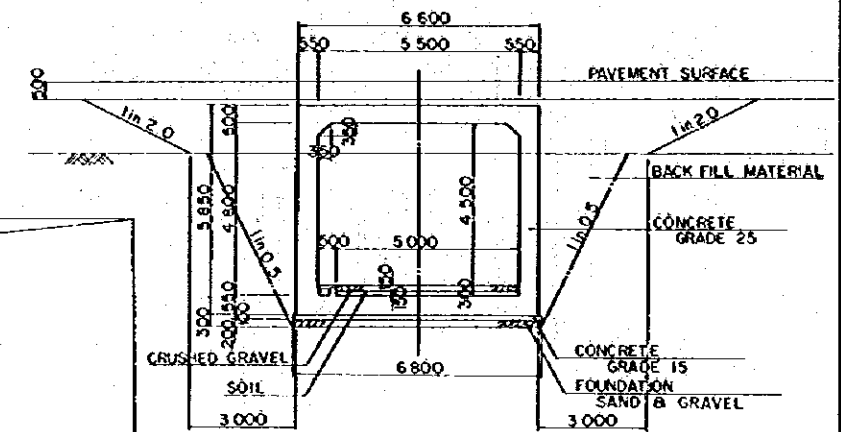
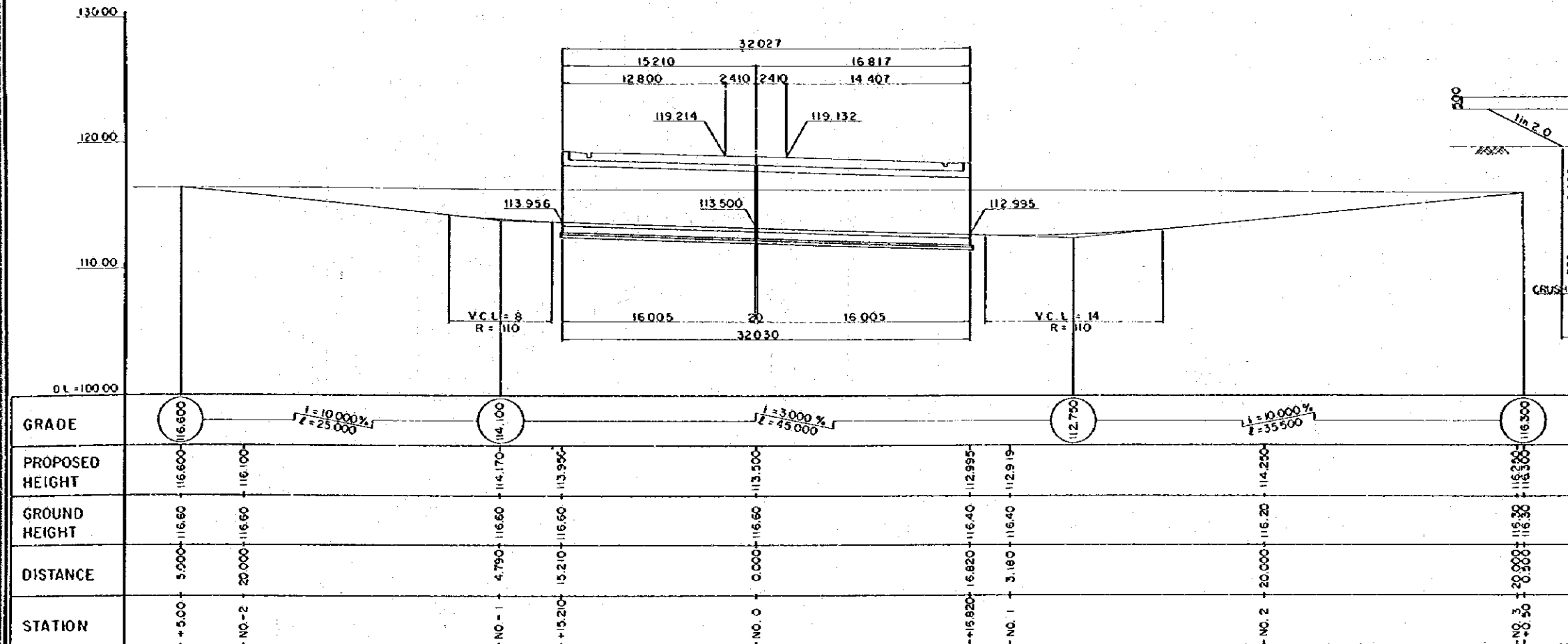
REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 27+82.00	
Scale 1:50	SHEET NO. 35/152
Date:	1960
JAPAN INTERNATIONAL COOPERATION AGENCY	

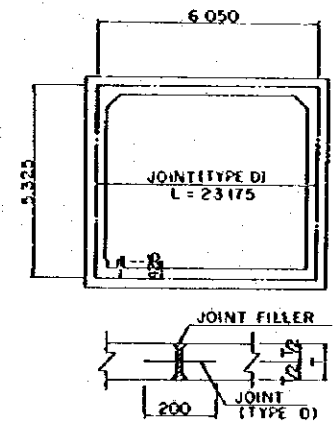
STA.30+73.20 C-Bx 5.50x4.80x32.03 R69°

PROFILE SCALE 1 : 200

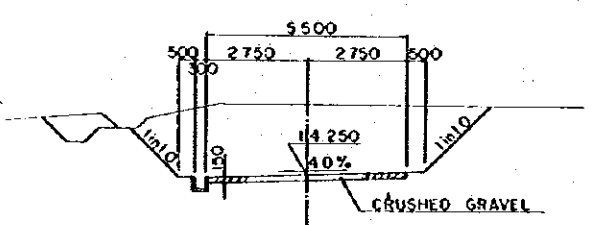
TYPICAL CROSS SECTION SCALE 1 : 100



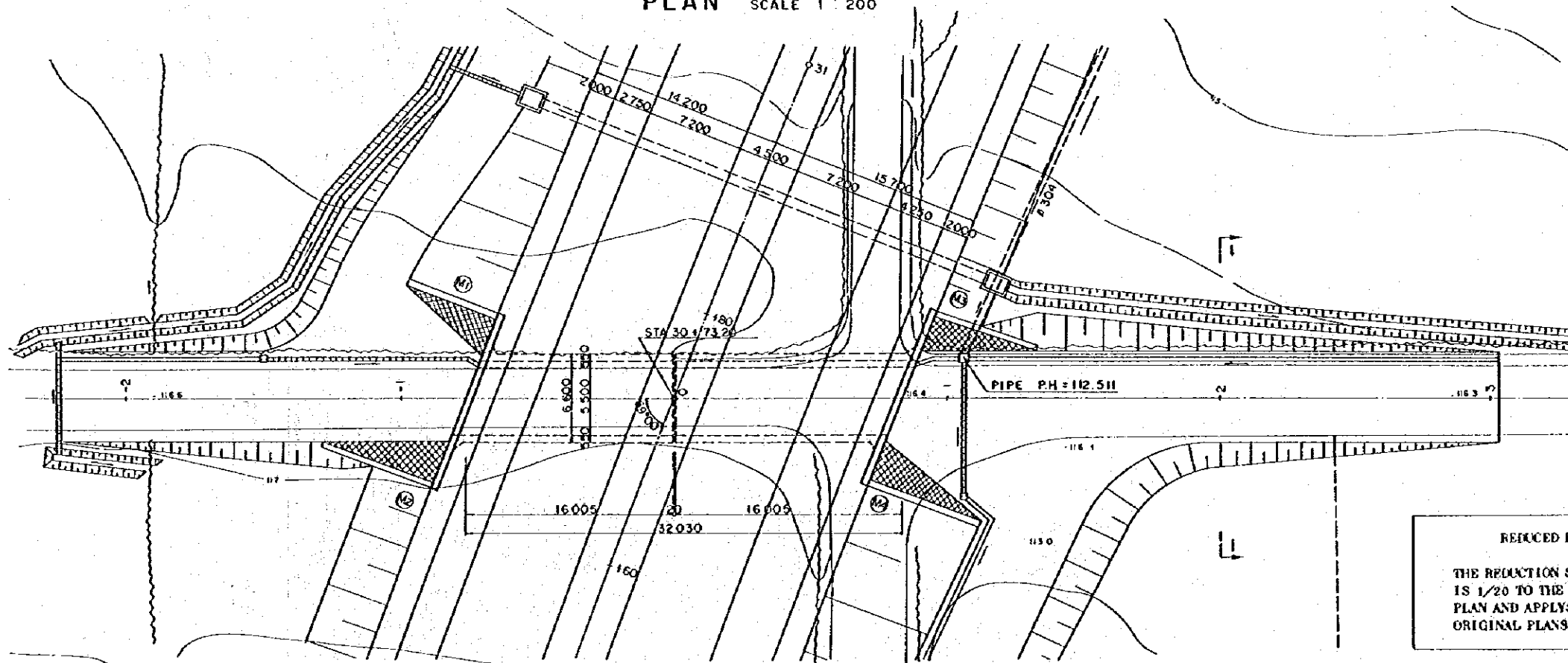
JOINT



SECTION I-I SCALE 1 : 100



PLAN SCALE 1 : 200



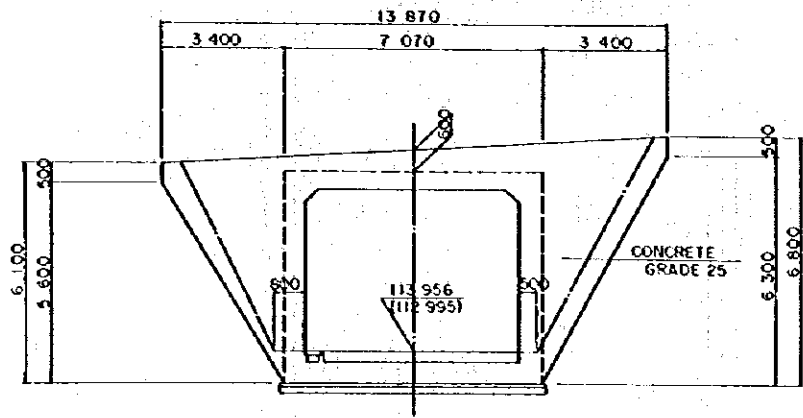
REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU GASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA.30+7320	
Scale 1 : 200, 100	SHEET NO. 36/152
Date:	1980
JAPAN INTERNATIONAL COOPERATION AGENCY	

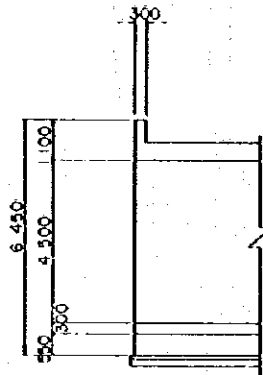
STA. 30+73.20 C-Bx 5.50x4.80x32.03 R69°

WING WALL SCALE 1:100

SECTION 1 - 1

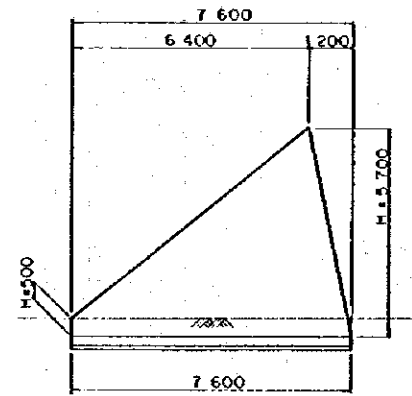


SECTION 3 - 3

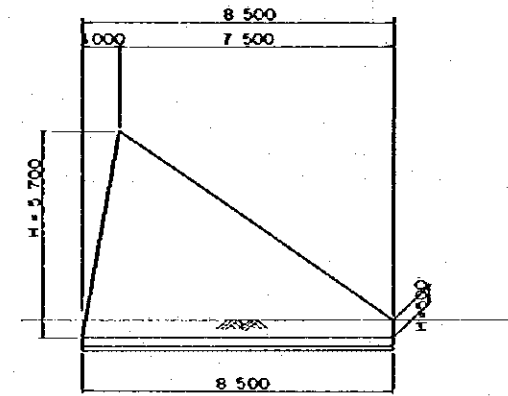


STONE MASONRY DEVELOPMENT SCALE 1:100

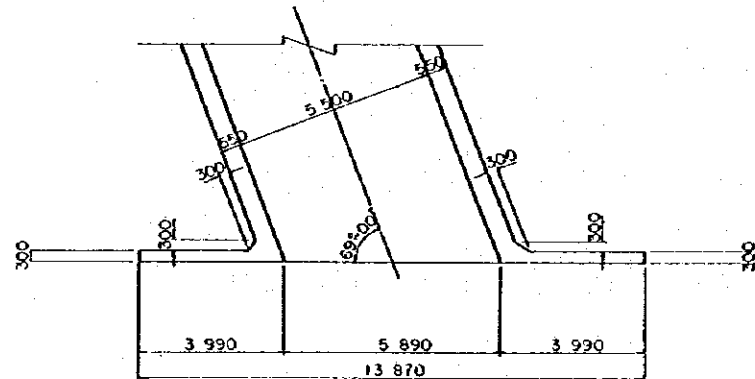
(M1)



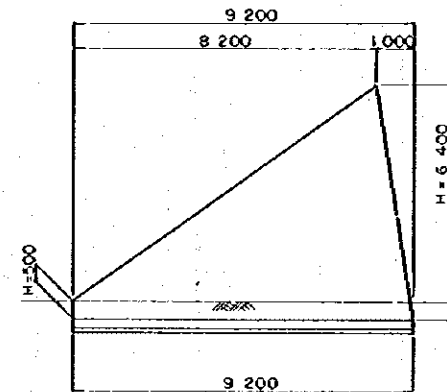
(M3)



SECTION 2 - 2

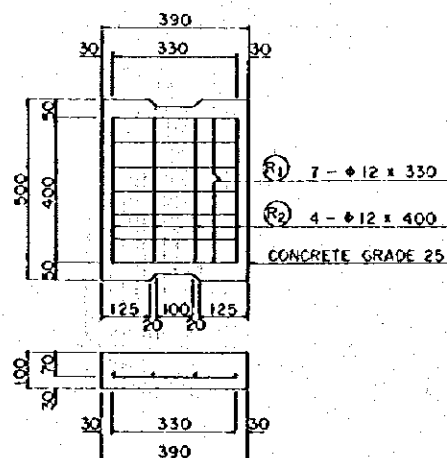


(M2)



(M4)

COVER SCALE 1:10

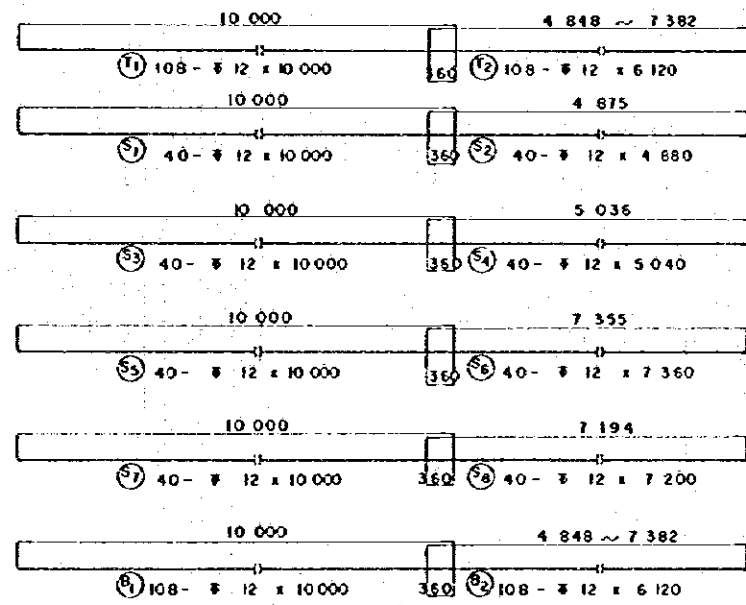
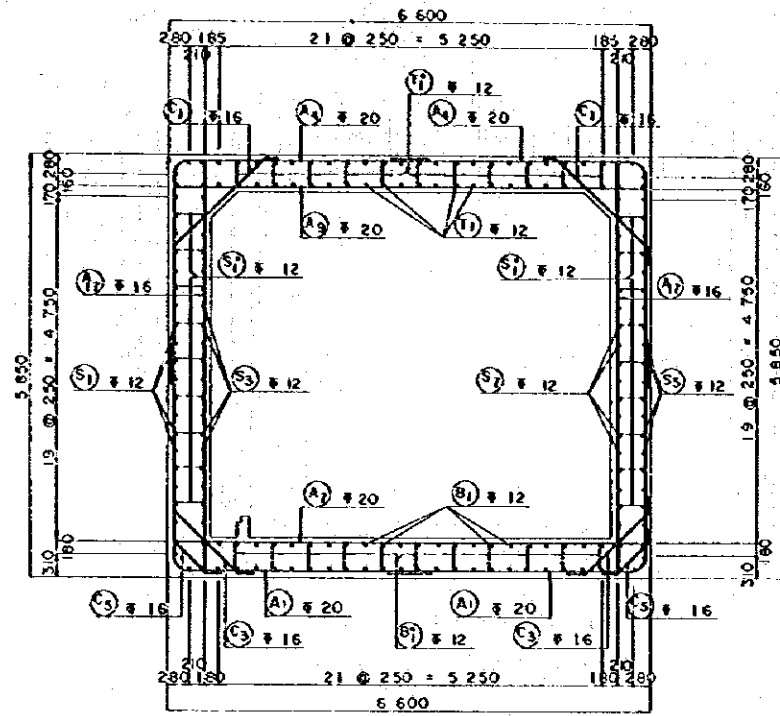


REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

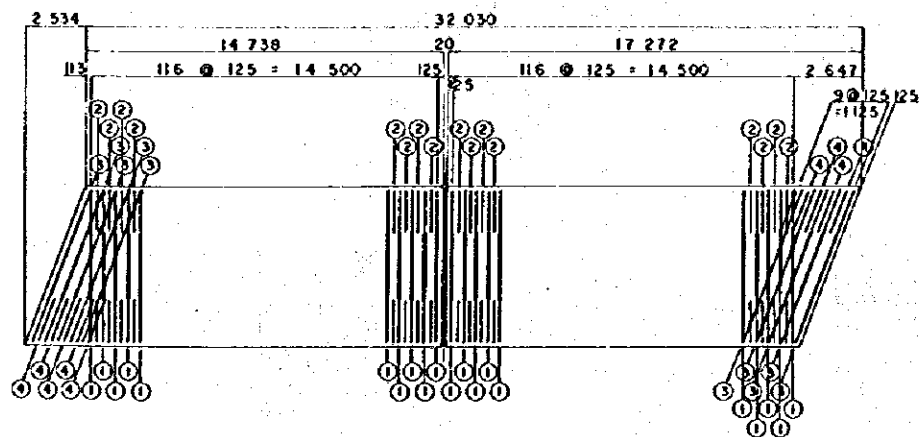
AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 30+7320	
Scale 1 : 100	SHEET NO. 37/152
Date:	1960
JAPAN INTERNATIONAL COOPERATION AGENCY	

BAR ARRANGEMENT SCALE 1:50

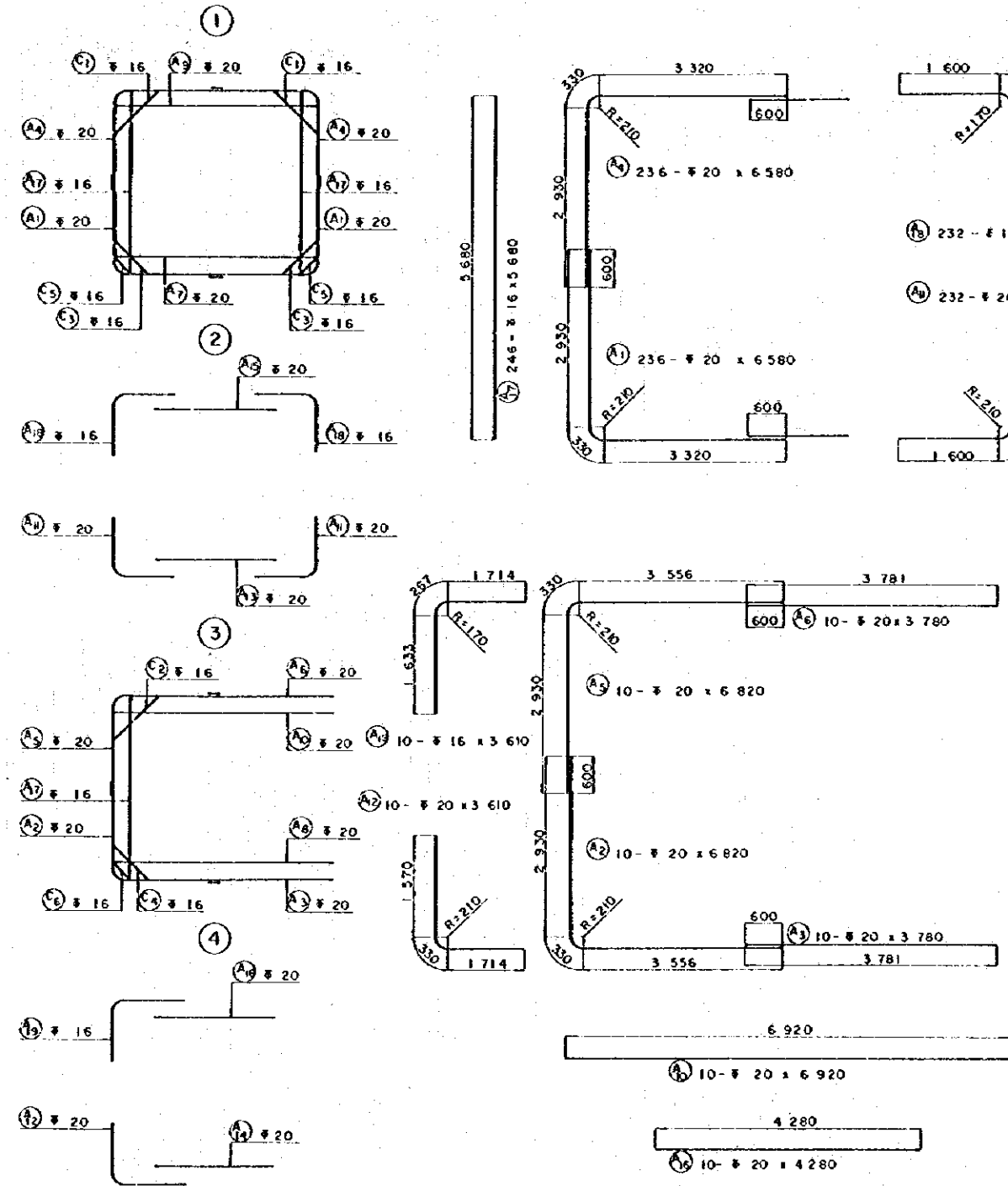
SECTION



MARKING DIAGRAM

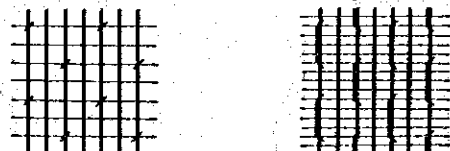


COMBINATION OF REINFORCEMENT c/c c 125mm

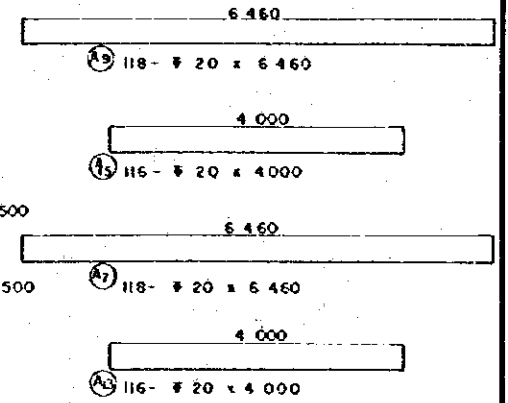


DISPOSITION OF STIRRUP

SIDE WALL BOTTOM AND TOP SLAB



NOTE OPEN SECTION OF U TYPE STIRRUP SHALL BE SET AT COMPRESSIVE FORCE SIDE OF THE BOTTOM AND TOP SLABS



MARK	SECTION	L1	L2	LENGTH	EACH
C 1	# 16	1 662	500	2 660	236
2		1 780	500	2 780	10
3		1 195	500	2 200	236
4		1 280	500	2 280	10
5		537	500	1 540	236
6		575	500	1 580	10

REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK
GOVERNMENT OF MAURITIUS
BEAU BASSIN - PORT LOUIS
LINK ROAD
FINAL DESIGN

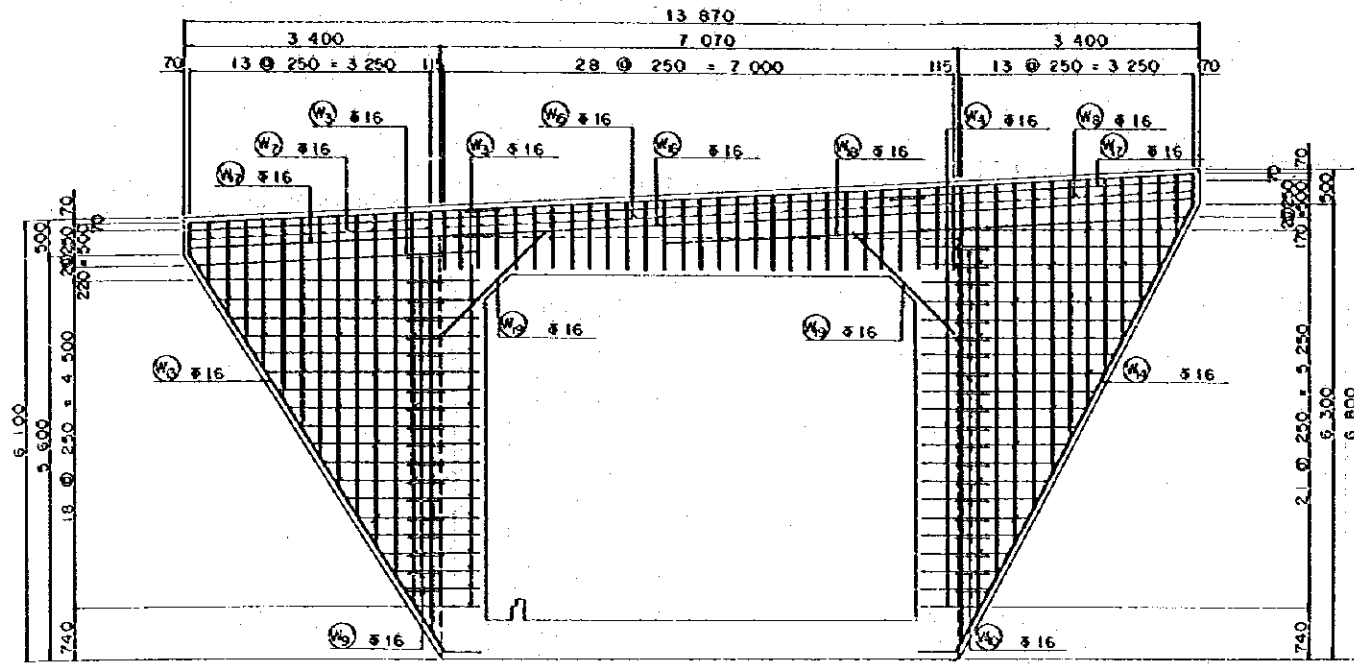
BOX CULVERT
STA. 30+73.20

Scale 1:50 SHEET NO. 38/152
Date: 1990
JAPAN INTERNATIONAL COOPERATION AGENCY

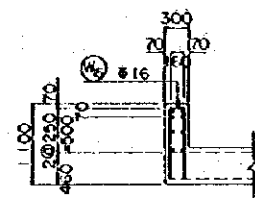
FRONT ELEVATION 1-1

BAR ARRANGEMENT WING WALL

SCALE 1:50



SECTION 4-4



29 - #16 x 2 110

785 ~ 3 685
20 - #16 x 2 900

915 ~ 3 765
22 - #16 x 3 000

900 ~ 3 800
20 - #16 x 3 010

800 ~ 3 650
22 - #16 x 2 890

160
400 ~ 5 400
13 - #16 x 3 060

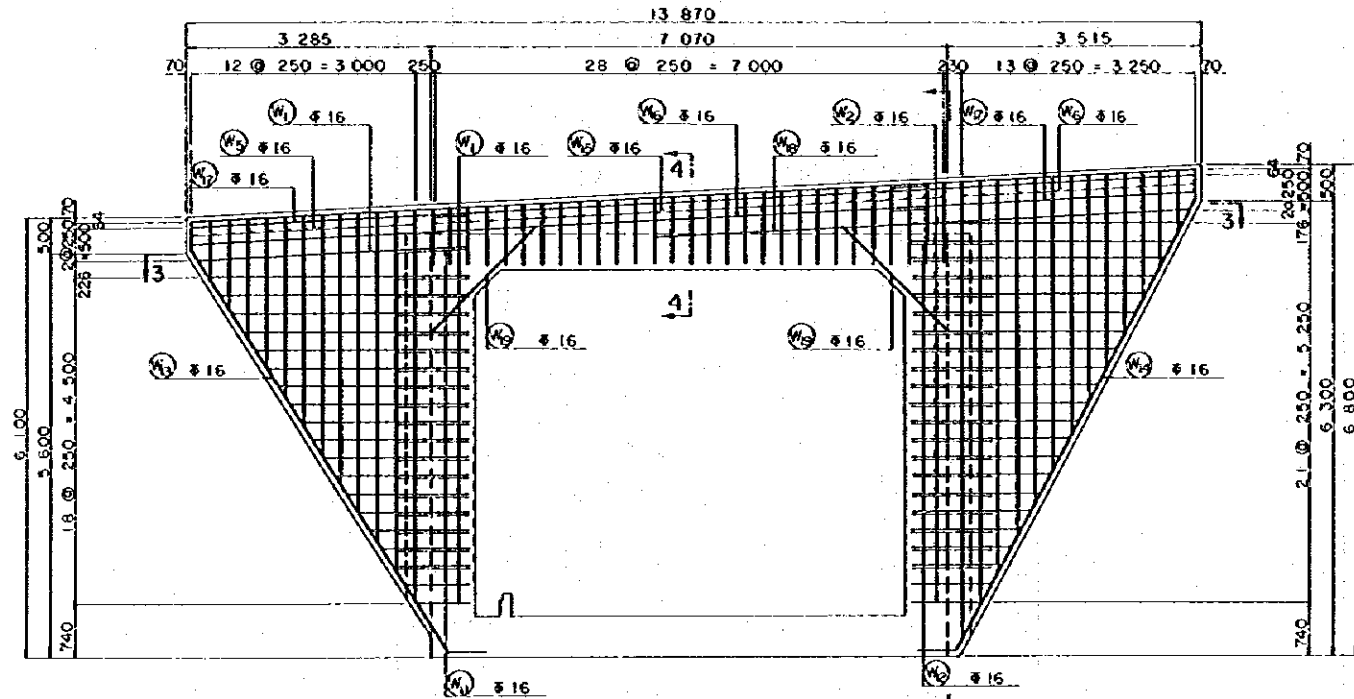
160
400 ~ 5 850
14 - #16 x 3 290

160
400 ~ 6 350
14 - #16 x 3 540

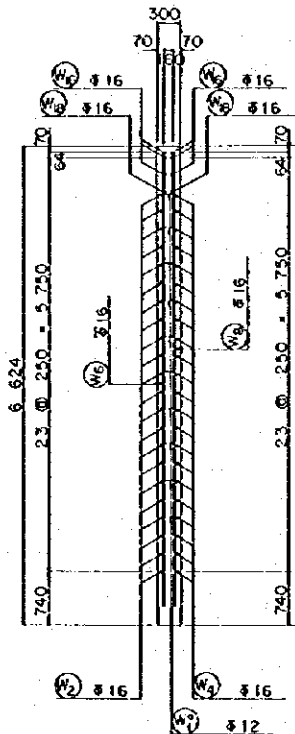
160
400 ~ 6 300
14 - #16 x 3 510

2 000
4 - #16 x 2 000

BACK ELEVATION 2-2



SECTION 5-5



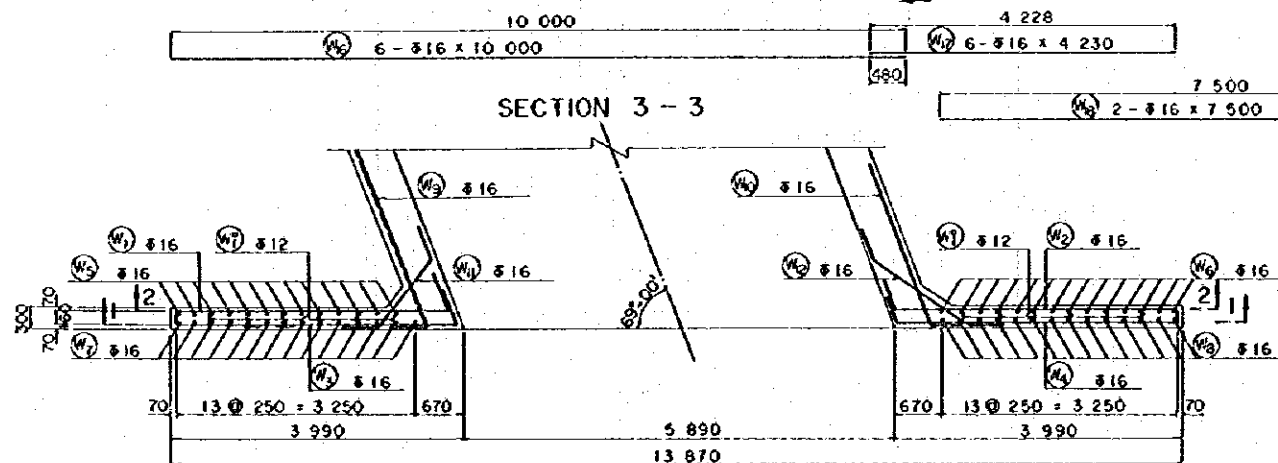
400
5 500
2 - #16 x 7 400

400
7 000
2 - #16 x 7 900

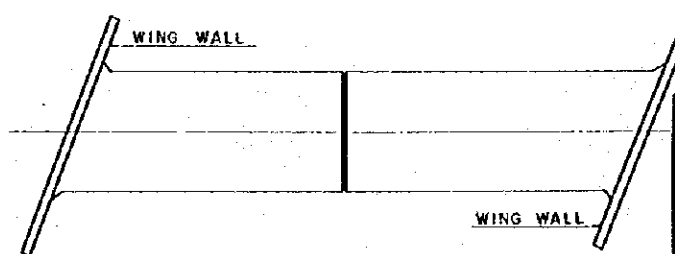
100
33 - #12 x 390

1 600
19 - #16 x 2 600

SECTION 3-3



MARKING DIAGRAM



REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLIES TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 30+73.20	
Scale 1 : 50	SHEET NO. 39/152
Date:	1980
JAPAN INTERNATIONAL COOPERATION AGENCY	

LIST OF REINFORCEMENT

MARK	SECTION	LENGTH	EACH	WEIGHT/M	WEIGHT/ONE	WEIGHT	REMARKS
(BODY)							
A ₁	#20	6580	236	2.47	16.3	3847	J
2	"	6820	10	"	16.8	168	"
3	"	3780	10	"	9.34	93	"
4	"	6580	236	"	16.2	3823	J
5	"	6820	10	"	16.8	168	"
6	"	3780	10	"	9.34	93	"
7	"	6460	118	"	16.0	1888	"
8	"	6920	10	"	17.1	171	"
9	"	6460	118	"	16.1	1888	"
10	"	6920	10	"	17.1	171	"
11	"	3500	232	"	8.65	2007	J
12	"	3610	10	"	8.92	89	"
13	"	4000	116	"	9.88	1146	"
14	"	4280	10	"	10.6	106	"
15	"	4000	116	"	9.88	1146	"
16	"	4280	10	"	10.6	106	"
						16910 ^{kg}	
A ₁₇	#16	5680	246	1.56	8.86	2180	I
18	"	3500	232	"	5.46	1267	J
19	"	3610	10	"	5.63	56	"
						3503 ^{kg}	
T ₁	#12	10000	108	0.888	8.88	959	—
2	"	6120	108	"	5.43	586	"
						1545 ^{kg}	
T ₁	#12	1540	369	0.888	1.34	494	[]
						494 ^{kg}	
S ₁	#12	10000	40	0.888	8.88	355	—
2	"	4880	40	"	4.33	173	"
3	"	10000	40	"	8.88	355	"
4	"	5040	40	"	4.48	179	"
5	"	10000	40	"	8.88	355	"
6	"	7360	40	"	6.54	262	"
7	"	10000	40	"	8.88	355	"
8	"	7200	40	"	6.39	256	"
						2290 ^{kg}	
S ₁	#12	650	604	0.888	0.577	349	J
						349 ^{kg}	
B ₁	#12	10000	108	0.888	8.88	959	—
2	"	6120	108	"	5.43	586	"
						1545 ^{kg}	
B ₁	#12	1640	369	0.888	1.46	539	[]
						539 ^{kg}	
C ₁	#16	2660	236	1.56	4.15	979	/
2	"	2780	10	"	4.34	43	"
3	"	2200	236	"	3.43	809	"
4	"	2280	10	"	3.56	36	"
5	"	1540	236	"	2.40	566	"
6	"	1580	10	"	2.47	25	"
						2458 ^{kg}	
				#20	16910 ^{kg}		
				#16	5961		
				#12	6762		
SUB TOTAL						29633 ^{kg}	

MARK	SECTION	LENGTH	EACH	WEIGHT/M	WEIGHT/ONE	WEIGHT	REMARKS
(LEFT WING WALL)							
W ₁	#16	2900	20	1.56	4.52	90	J
2	"	3000	22	"	4.68	103	J
3	"	3010	20	"	4.70	94	J
4	"	2890	22	"	4.51	99	J
5	"	3060	13	"	4.77	62	J
6	"	3540	14	"	5.52	77	"
7	"	3290	14	"	5.13	72	"
8	"	3510	14	"	5.48	77	"
9	"	4000	19	"	6.24	119	J
10	"	4000	20	"	6.24	125	J
11	"	2150	18	"	3.35	60	J
12	"	2600	19	"	4.06	77	J
13	"	7400	2	"	11.5	23	J
14	"	7900	2	"	12.3	25	"
15	"	2110	29	"	3.29	95	J
16	"	10000	6	"	15.6	94	—
17	"	4230	6	"	6.60	40	"
18	"	7500	2	"	11.7	23	"
19	"	2000	4	"	3.12	12	/
						1367 ^{kg}	
W ₁	#12	390	33	0.888	0.346	11	C
						11 ^{kg}	
				#16	1367 ^{kg} x 2 = 2734 ^{kg}		
				#12	11 x 2 = 22		
SUB TOTAL						2756 ^{kg}	
				#20	16910 ^{kg}		
				#16	8695		
				#12	6764		
TOTAL						32389 ^{kg}	

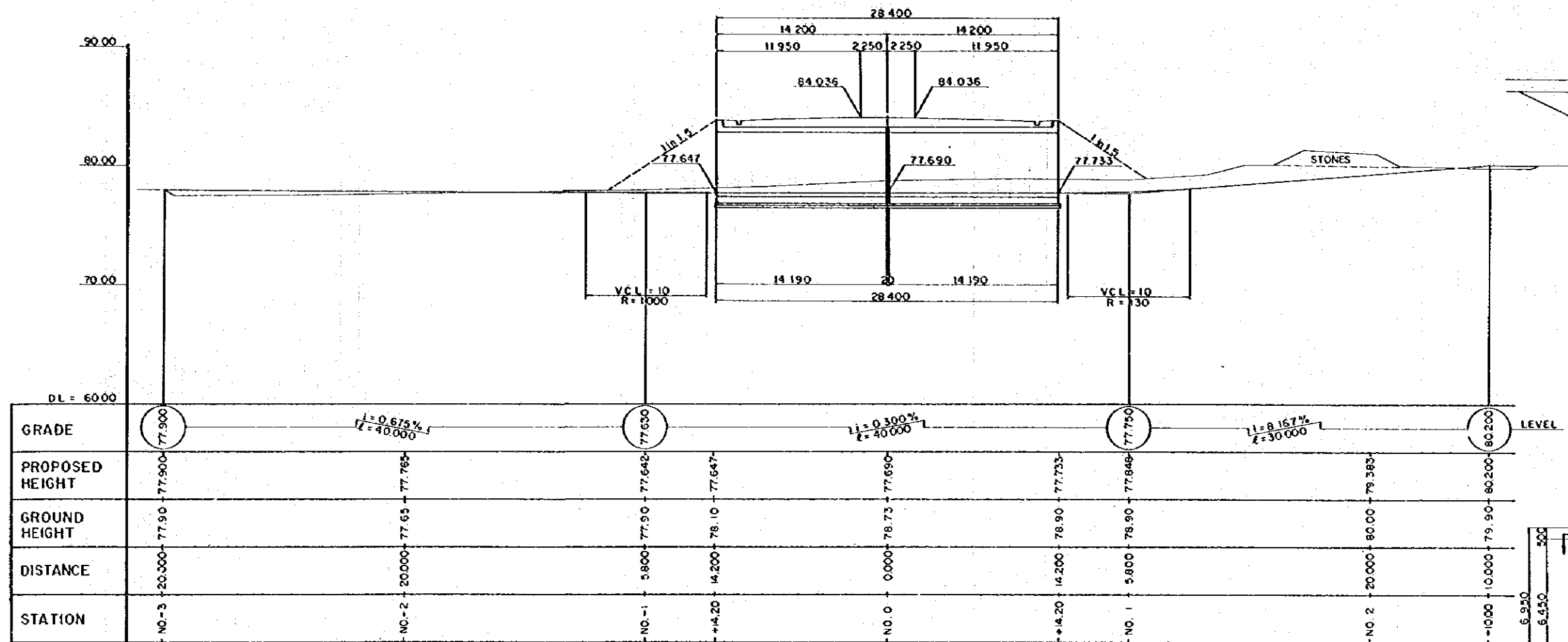
REDUCED PLAN
THE REDUCTION SCALE USED IS 1/20 TO THE ORIGINAL PLAN AND APPLYS TO THE ORIGINAL PLANS ONLY.

AFRICAN DEVELOPMENT BANK GOVERNMENT OF MAURITIUS	
BEAU BASSIN - PORT LOUIS LINK ROAD FINAL DESIGN	
BOX CULVERT STA. 30+73.20	
Scale 1 :	SHEET NO. 40/152
Date:	1980
JAPAN INTERNATIONAL COOPERATION AGENCY	

STA. 38+20.00 C-Bx 4.30x5.40x28.40 L R

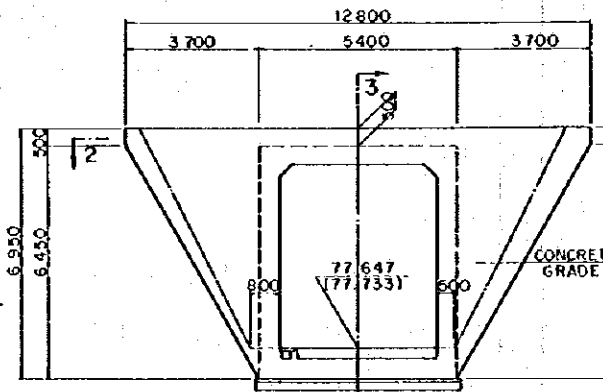
PROFILE SCALE 1 : 200

TYPICAL CROSS

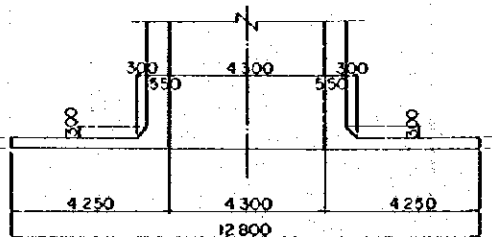


WING WALL

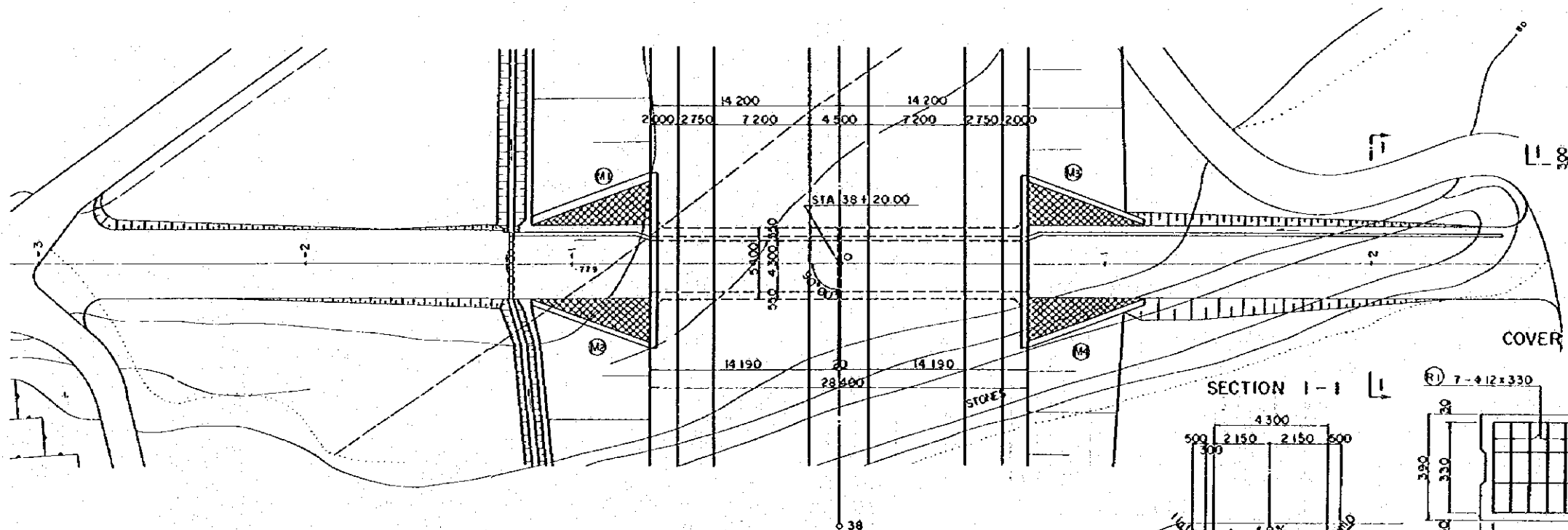
SECTION 1-1



SECTION 2-2



PLAN SCALE 1 : 200



STONE MASONRY D

- (M1) (M2) (M3) (M4)

COVER SCALE 1 : 10

SECTION 1-1

