

**ATTACHMENT-1:**  
**AS-BUILT DRAWINGS**



**JAPAN INTERNATIONAL COOPERATION AGENCY  
PROCUREMENT FOR CIVIL WORK CONTRACT WITH JICA**

**PROJECT FOR POST- EARTHQUAKE REHABILITATION OF  
WATER RESOURCES MANAGEMENT FACILITIES IN PADANG**

# **AS – BUILT DRAWINGS**

**FEBRUARY 2011**

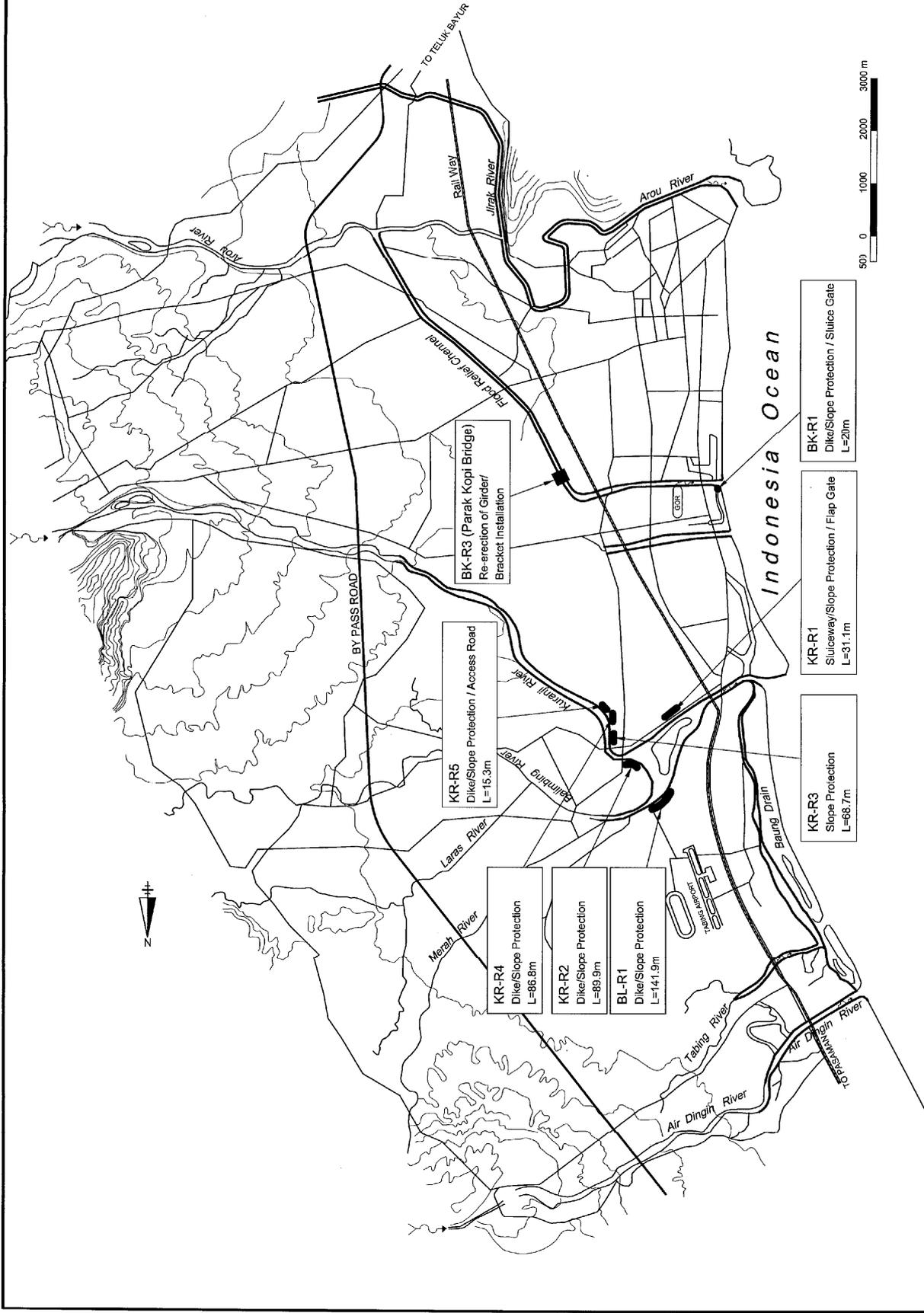
**P.T. WASKITA KARYA (Persero)**  
Jl. Ahmad Yani No. 19 Padang 25112 Telp. (0751) 33151 Fax. (0751) 32622

**PAGE SHEET NO. NAME OF WORKS DRAWING TITLE**

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7	BK-R1-CS 1-3	Works around Purus Sluice	Cross Section Profile of Right Dike
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9	BK-R1-SP 1-2	Works around Purus Sluice	Re-Bar Arrangement
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51	KR-R2-CS 1-3	Works at Downstream Site of Nanggalo Bridge	Cross Section Profile of Right Dike
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73	KR-R4-CS 1-4	Works at Upstream Site 2 of Nanggalo Bridge	Cross Section Profile of Left Dike
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PAGE	SHEET NO.	NAME OF WORKS	DRAWING TITLE
78	KR-R5-P-1	Works at Upstream Site 3 of Nanggalo Bridge	Plan
79	KR-R5-LP-1	Works at Upstream Site 3 of Nanggalo Bridge	Longitudinal Profile of Left Dike
80	KR-R5-CS 1-1	Works at Upstream Site 3 of Nanggalo Bridge	Cross Section Profile of Left Dike
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88	BL-R1-LP 1-2	Works at Downstream Site of Tunggul Hitam Bridge	Longitudinal Profile of Right Dike
89	BL-R1-LP 1-3	Works at Downstream Site of Tunggul Hitam Bridge	Longitudinal Profile of Right Dike
90	BL-R1-CS 1-1	Works at Downstream Site of Tunggul Hitam Bridge	Cross Section Profile of Right Dike
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92	BL-R1-CS 1-3	Works at Downstream Site of Tunggul Hitam Bridge	Cross Section Profile of Right Dike
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94	BL-R1-CS 1-5	Works at Downstream Site of Tunggul Hitam Bridge	Cross Section Profile of Right Dike
95	BL-R1-CS 1-6	Works at Downstream Site of Tunggul Hitam Bridge	Cross Section Profile of Right Dike
96	BL-R1-CS 1-7	Works at Downstream Site of Tunggul Hitam Bridge	Cross Section Profile of Right Dike
97	BL-R1-CS 1-8	Works at Downstream Site of Tunggul Hitam Bridge	Cross Section Profile of Right Dike
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99	BL-R1-SP 1-2	Works at Downstream Site of Tunggul Hitam Bridge	Detail Rebar of Slope Protector
100	BL-R1-SP 1-3	Works at Downstream Site of Tunggul Hitam Bridge	Detail Weep Hole
101	BL-R1-SP 1-4	Works at Downstream Site of Tunggul Hitam Bridge	Detail Stair
102	BL-R1-TC-1	Works at Downstream Site of Tunggul Hitam Bridge	Plan & Section of Temporary Coffering
<b>SERVICE AND REPAIR SLIDE GATE</b>			
103	BK-R1-SR-1	Works around Purus Sluice	Section Slide Gate
104	KR-R1-SR-1	Works at Flap Gate K.3A	Section Flap Gate
<b>ACCES ROAD</b>			
105	KR-R5-AR-P1	Works at Upstream Site 3 of Nanggalo Bridge	Plan
106	KR-R5-AR-LP 1-1	Works at Upstream Site 3 of Nanggalo Bridge	Longitudinal Profile of Access Road
107	KR-R5-AR-LP 1-2	Works at Upstream Site 3 of Nanggalo Bridge	Longitudinal Profile of Access Road
108	KR-R5-AR-LP 1-3	Works at Upstream Site 3 of Nanggalo Bridge	Longitudinal Profile of Access Road
109	KR-R5-AR-CS 1-1	Works at Upstream Site 3 of Nanggalo Bridge	Cross Section Profile of Access Road
110	KR-R5-AR-CS 1-2	Works at Upstream Site 3 of Nanggalo Bridge	Cross Section Profile of Access Road
111	KR-R5-AR-CS 1-3	Works at Upstream Site 3 of Nanggalo Bridge	Cross Section Profile of Access Road
112	KR-R5-AR-CS 1-4	Works at Upstream Site 3 of Nanggalo Bridge	Cross Section Profile of Access Road
113	KR-R5-AR-CS 1-5	Works at Upstream Site 3 of Nanggalo Bridge	Cross Section Profile of Access Road



REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	AS BUILT DRAWINGS	SHEET NO.
				Ir. LOLY HENDRO Project Manager	Yusuf Usui The Engineer	LOCATION : NAME OF WORKS : TITLE : LOCATION MAP OF REHABILITATION WORKS	G - 1

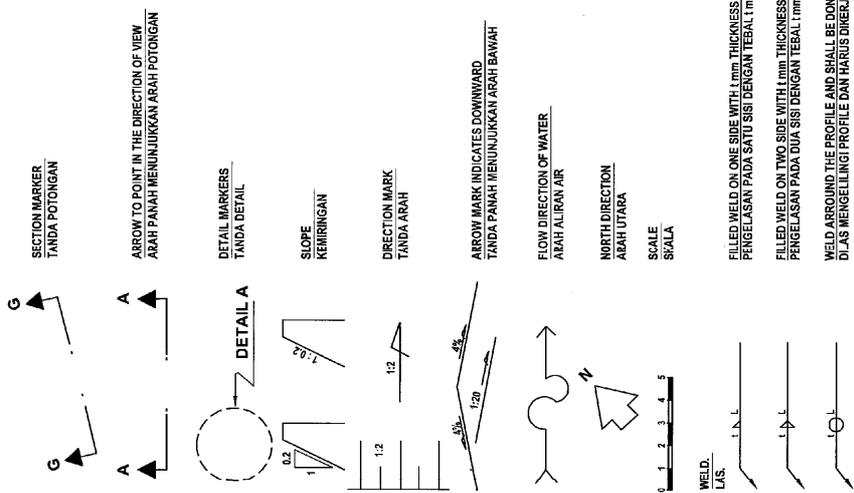
Republic of Indonesia  
Project for Post-earthquake Rehabilitation of  
Water Resources Management Facilities  
in Padang



# ABBREVIATION AND SYMBOL ARTI SINGKATAN DAN SIMBOL

MARK	DESCRIPTION
EL	ELEVATION LEVEL ELEVASI
HWL	HIGH WATER LEVEL MUKA AIR TINGGI
LWL	LOW WATER LEVEL MUKA AIR RENDAH
NWL	NORMAL WATER LEVEL MUKA AIR RENDAH
MWL	MEAN WATER LEVEL MUKA AIR BATA-RATA
LLWL	LOW LOW WATER LEVEL MUKA AIR
GL	GROUND LEVEL MUKA TANAH
L	LENGTH PANJANG
W	WIDTH LEBAR
CL	ANGLE SUJUT
R	RADIUS JARI-JARI
t	THICKNESS TEBAL
D	DIAMETER OF DEFORMED BAR OR DEFORM ANCHOR BOLT DIAMETER TULANGAN BERPROFIL ATAU ANKUR BERPROFIL
φ	DIAMETER DIAMETER
C/C	CENTER TO CENTER PUSAT KE PUSAT
ε	CENTER TENGAH
SGP	STEEL GAS PIPE PIPA BAJA UNTUK GAS
MT-10A-SA	STAKE AT THE LEFT BANK PATOK DI TEPI KIRI
MT-102-16	STAKE AT THE LEFT BANK PATOK DI TEPI KIRI
PVC	POLY VINYL CHLORIDE PIPA PRILON
	CHANNEL STEEL PROFILE BAJA PROFIL KANAL
T	T STEEL PROFILE BAJA PROFIL
PL	STEEL PLATE BAJA PLAT
H	H STEEL PROFILE BAJA PROFIL H
L	ANGLE STEEL PROFILE BAJA PROFIL SIKU-SIKU
	REINFORCED CONCRETE PILE OF SQUARE TYPE TIANG PANGANG BETON BERTULANG TYPE PERSEGI

SYMBOL	DESCRIPTION
	EARTH TANAH
	ROCK BATUAN
	SODDING GEBALAN RUMPUT
	SAND PASIR
	SAND AND GRAVEL PASIR DAN KERIKIL
	WATER SURFACE MUKA AIR
	EMBANKMENT TIMBUNAN
	CUT GALIAN
	CONCRETE BETON
	REINFORCED CONCRETE (SECTION) BETON BERTULANG (POTONGAN)
	EXISTING CONCRETE BETON YANG ADA
	TIMBER CONCRETE BETON RINGAN
	WET MASONRY (PLAN) PASANGAN BATU (DENAH)
	WET MASONRY (SECTION) PASANGAN BATU (POTONGAN)
	EXISTING WET MASONRY PASANGAN BATU YANG ADA
	REINFORCED CONCRETE (FRONT VIEW/PLAN) BETON BERTULANG (TAMPAK MUKA, DENAH)
	LEVELLING CONCRETE LANTAI KERJA
	GABION (PLAN) BRONJONG (DENAH)
	GABION (SECTION) BRONJONG (POTONGAN)
	GRAVEL KERIKIL
	COBBLE STONE BATU KALI
	LATER STAGE CONCRETE BETON TAHAP KEDUA
	CONCRETE BLOCK (PLAN) BLOK BETON (DENAH)
	CONCRETE WITH COBBLE STONES (PLAN) BETON DENGAN BATU KALI (DENAH)
	CONCRETE WITH COBBLE STONE (SECTION) BETON DENGAN BATU KALI (POTONGAN)



SECTION MARKER  
TANDA POTONGAN

ARROW TO POINT IN THE DIRECTION OF VIEW  
ARAH PANAH MENUNJUKKAN ARAH POTONGAN

DETAIL MARKERS  
TANDA DETAIL

SLOPE  
KEMIRINGAN

DIRECTION MARK  
TANDA ARAH

ARROW MARK INDICATES DOWNWARD  
TANDA PANAH MENUNJUKKAN ARAH BAWAH

FLOW DIRECTION OF WATER  
ARAH ALIRAN AIR

NORTH DIRECTION  
ARAH UTARA

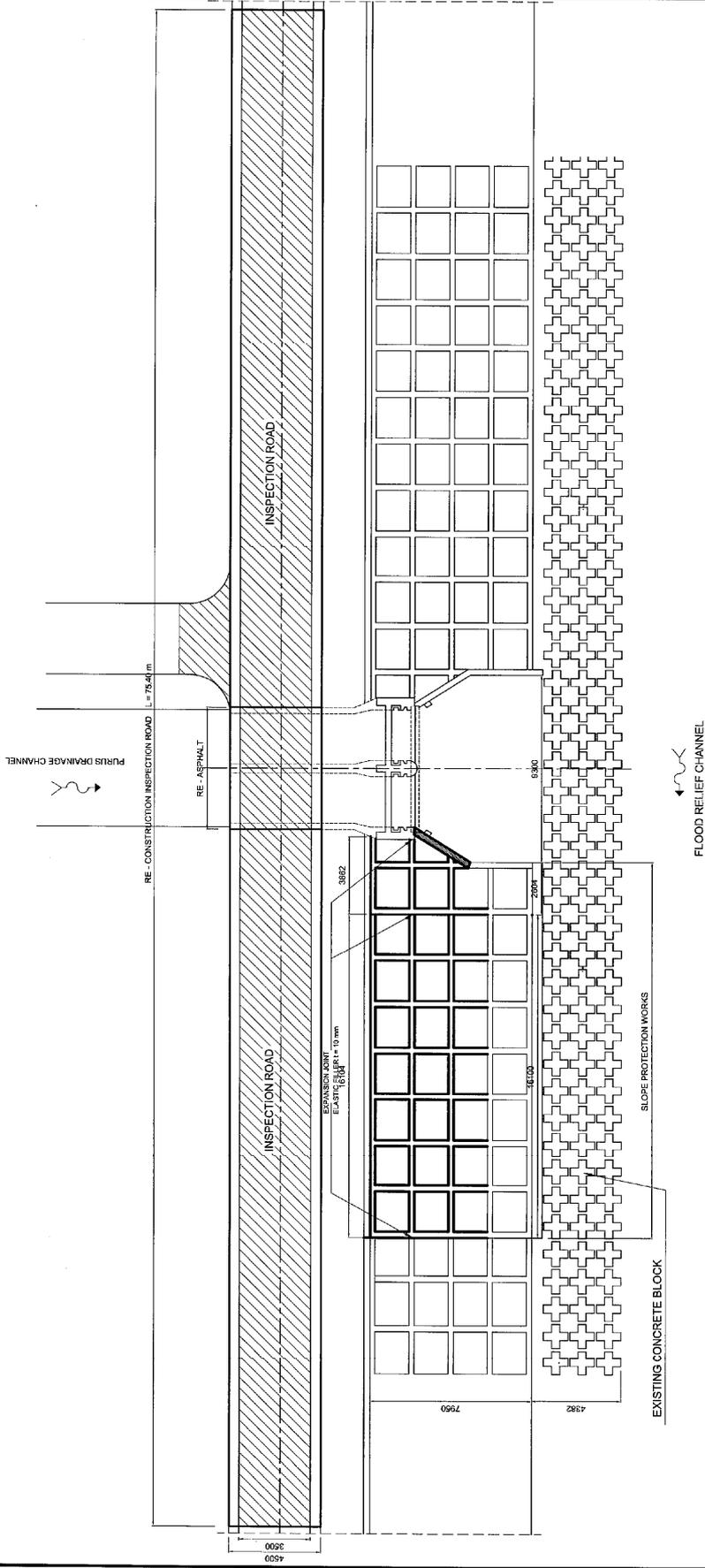
SCALE

FILLED WELD ON ONE SIDE WITH 1 mm THICKNESS AND L mm LENGTH  
PENGELASAN PADA SATU SISI DENGAN TEBAL 1 mm DAN PANJANG L mm

FILLED WELD ON TWO SIDE WITH 1 mm THICKNESS AND L mm LENGTH  
PENGELASAN PADA DUA SISI DENGAN TEBAL 1 mm DAN PANJANG L mm

WELD AROUND THE PROFILE AND SHALL BE DONE IN WORKSHOP  
DAS MENGGELINGI PROFILE DAN HARUS DINGERAKAN DI WORKSHOP

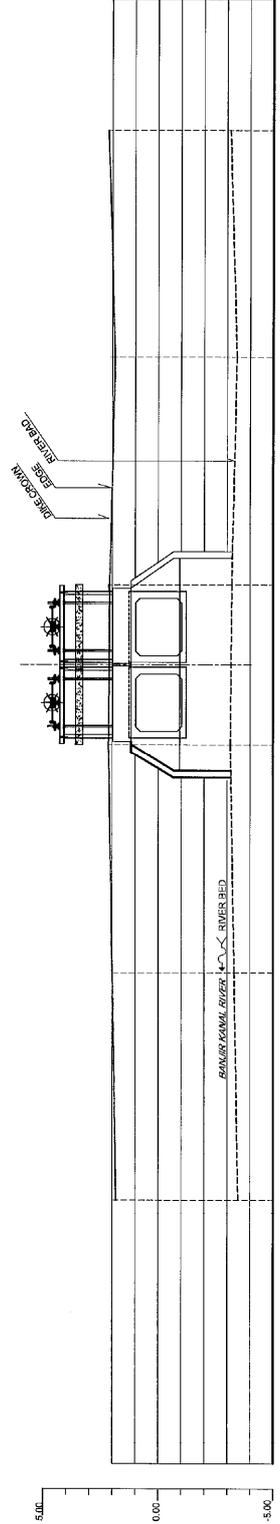
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 BWSS-V			APPROVED BY  The Engineer	LOCATION : NAME OF WORKS : TITLE :
		PROPOSED BY  Project Manager	DATE :	DATE :



PLAN  
SCALE 1:100

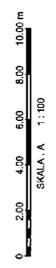
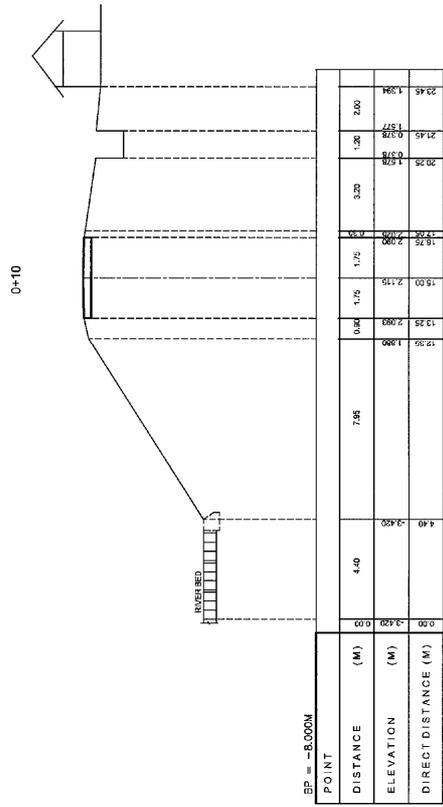
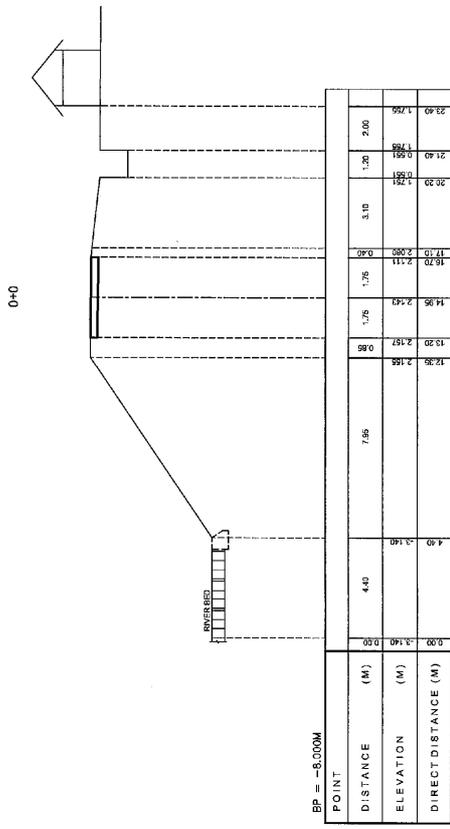


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								HENDRO Project Manager	YUSRI The Engineer	LOCATION : FLOOD RELIEF CHANNEL (BANJIR KANAL) NAME OF WORKS : WORKS AROUND PURUS SLUICE TITLE : PLAN



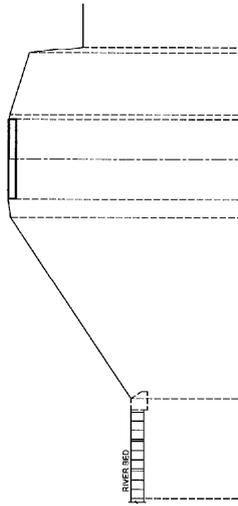
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37.00	3.420	7.00	BK.R1.10
22.00	3.200	10.00	BK.R1.20
20.05	3.140	10.00	BK.R1.27
10.00	3.31	10.00	BK.R1.37
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 JICA	 WASKITA	PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	AS BUILT DRAWINGS	SHEET NO.



 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang			REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	AS BUILT DRAWINGS	SHEET NO.
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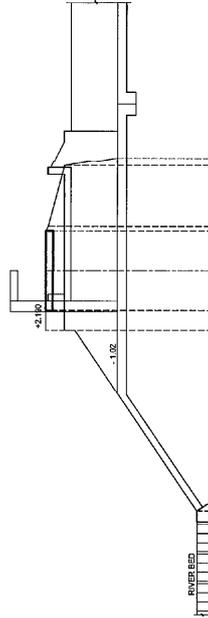
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BP = -8.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0+00	0.00	13.200	0.00
0+05	4.00	15.150	2.000
0+10	7.95	14.900	2.020
0+15	1.75	14.900	2.175
0+20	2.47	16.900	2.470
0+25	2.13	16.900	2.130
0+30	1.95	16.900	1.950

0+27



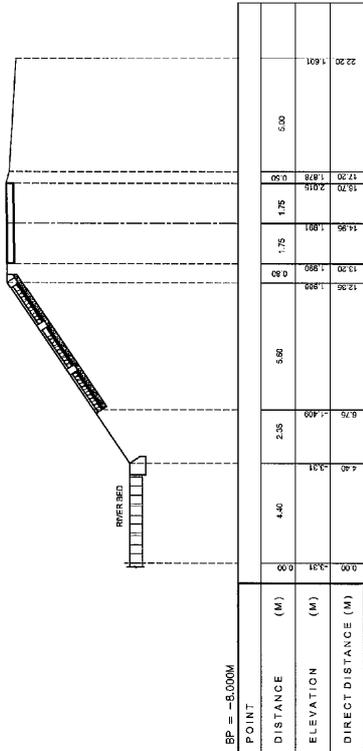
BP = -8.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0+00	0.00	13.150	0.00
0+05	4.00	14.900	2.150
0+10	7.95	14.900	2.150
0+15	1.75	14.900	2.300
0+20	2.47	16.700	2.470
0+25	2.13	16.700	2.130
0+30	1.95	16.700	1.950

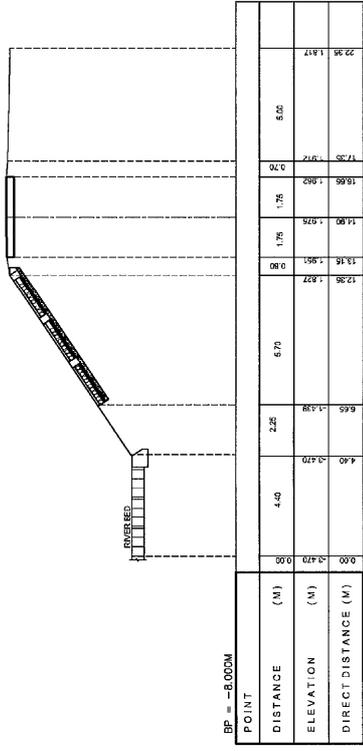


 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE  L LOLLY HENDRO Project Manager	APPROVED BY DATE  Yusel Yusji The Engineer	AS BUILT DRAWINGS LOCATION : FLOOD RELIEF CHANNEL (BANJIR KANAL) NAME OF WORKS : WORKS AROUND PURUS SLUICE TITLE : GROSS SECTION PROFILE OF RIGHT DIKE	SHEET NO. BK-R1-CS 1-2
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0+37



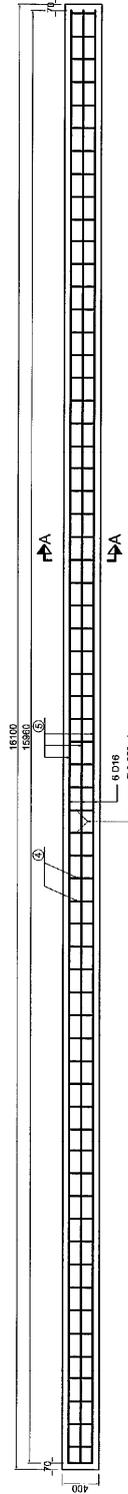
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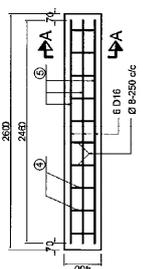
	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	AS BUILT DRAWINGS LOCATION : FLOOD RELIEF CHANNEL (BANJIR KANAL) NAME OF WORKS : WORKS AROUND PURUS SLUICE TITLE : GROSS SECTION PROFILE OF RIGHT DIKE	SHEET NO. BK-R1 - CS-18
						IR. LOLY HENDRO Project Manager	YOSRI USJI The Engineer		



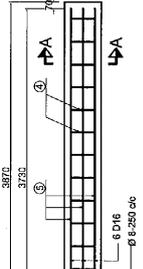




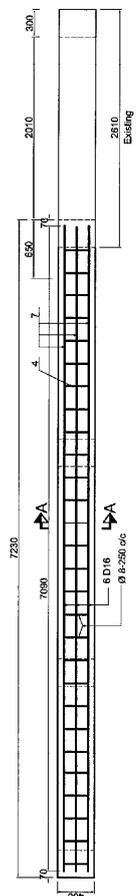
HORIZONTAL BEAM ( L = 16,100 m )  
SCALE 1 : 25



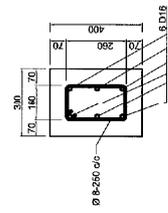
HORIZONTAL BEAM ( L = 2,600 m )  
SCALE 1 : 25



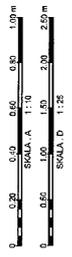
HORIZONTAL BEAM ( L = 3,870 m )  
SCALE 1 : 25



VERTICAL BEAM ( L = 6,933 m )  
SCALE 1 : 25



SECTION A - A  
SCALE 1 : 10

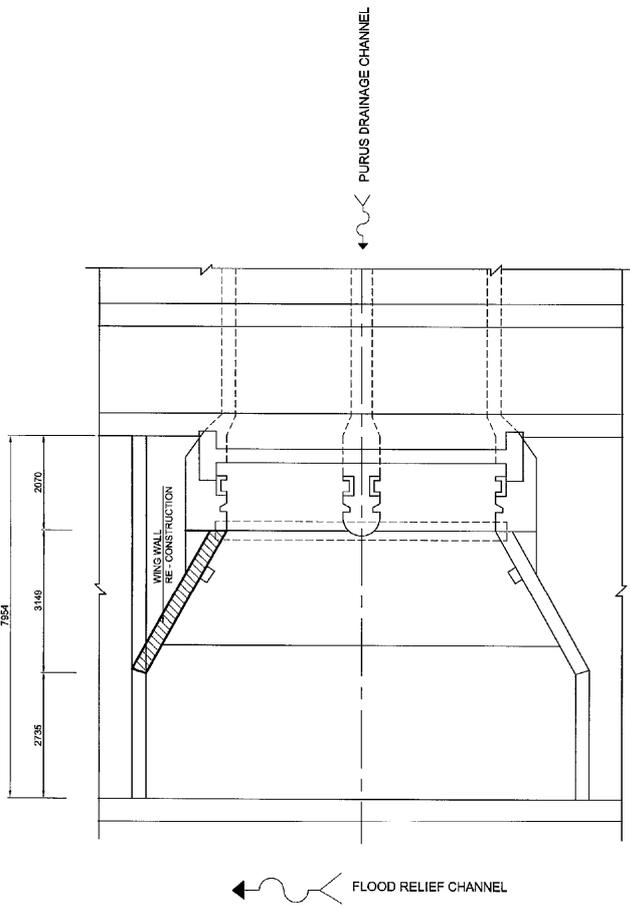


			Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	AS BUILT DRAWINGS LOCATION : FLOOD RELIEF CHANNEL (BANJIR KANAL) NAME OF WORKS : WORKS AROUND PURUS SLUIDE TITLE : RE-BAR ARRANGEMENT	SHEET NO. BK-R1-SP-1-3
								Project Manager	The Engineer		

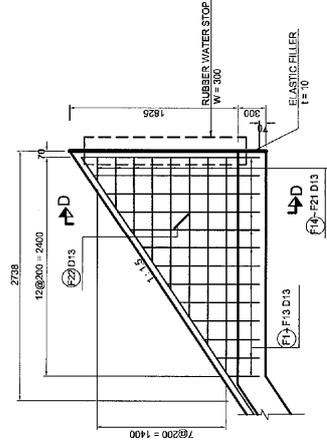
LIST OF REINFORCEMENT BENDING SCHEDULE FOR CONCRETE CRIB

ITEM	REMARK	DIA (mm)	LENGTH (mm)	PCS	TOTAL LENGTH (m)	NOS	Kg/m	TOTAL (Kg)
Horizontal Beam L = 16.10 m		8	920	64	58.90	3	0.40	70.80
		16	15960	6	99.70	3	1.58	472.50
							Sub Total	543.30
Horizontal Beam L = 2.60 m		8	920	10	9.20	1	0.40	3.70
		16	2460	6	14.80	1	1.58	23.40
							Sub Total	27.10
Horizontal Beam L = 3.87 m		8	920	15	13.80	2	0.40	11.00
		16	3730	6	22.40	2	1.58	70.80
							Sub Total	81.80
Vertical Beam L = 6.93 m		8	920	28	25.80	9	0.40	92.70
		16	6860	6	41.20	9	1.58	585.90
							Sub Total	678.60
<b>TOTAL</b>								<b>1330.80</b>

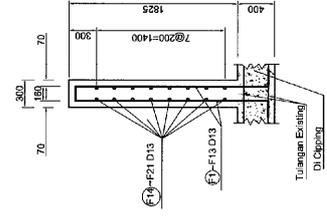
 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE  Project Manager	APPROVED BY DATE  Yesuol USJI The Engineer	AS BUILT DRAWINGS LOCATION : FLOOD RELIEF CHANNEL (BANJIR KANAL) NAME OF WORKS : WORKS AROUND PURUS SLUICE TITLE : BENDING SCHEDULE OF SLOPE PROTECTION CONCRETE CRIB	SHEET NO. BK - R1 - SP-1-4
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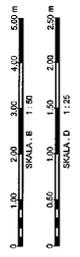
PLAN  
SCALE 1 : 50



WALL SIDE VIEW  
SCALE 1 : 25

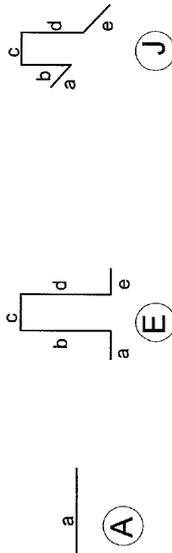


SECTION D - D  
SCALE 1 : 25



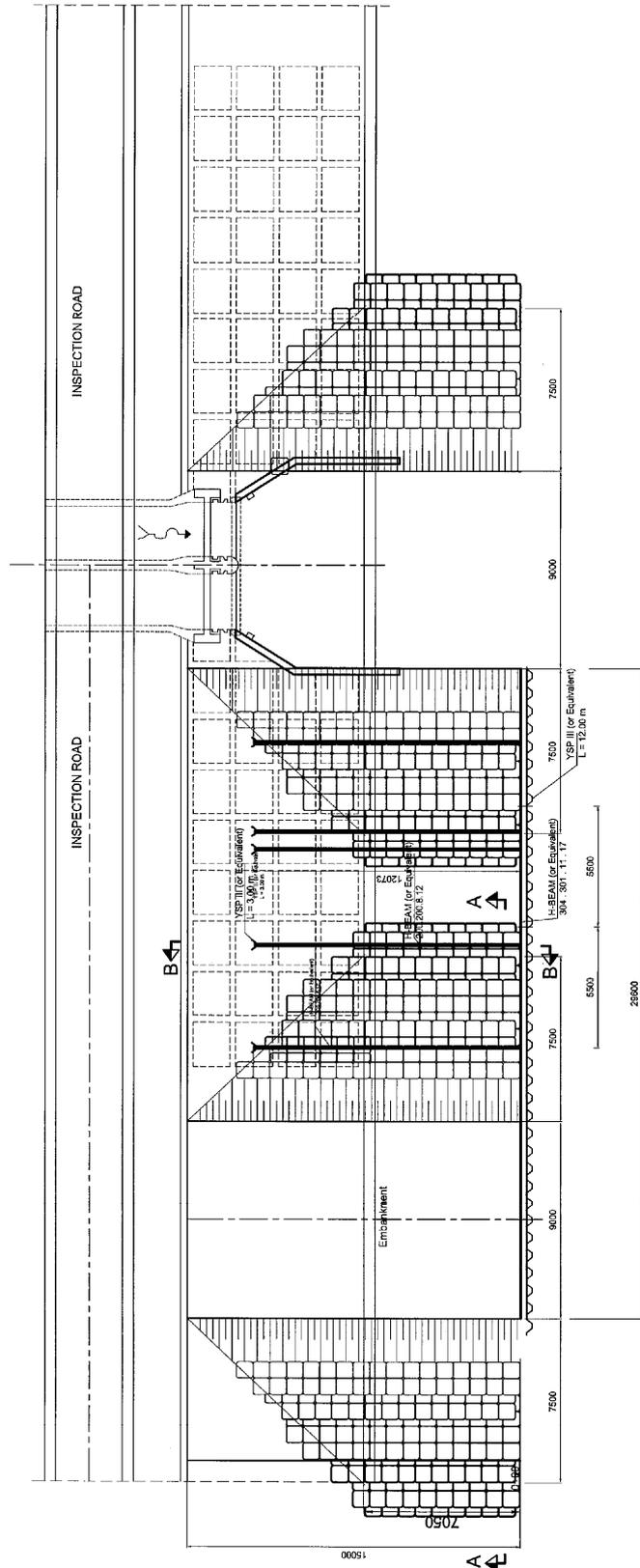
			Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang				REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE  PROJECT MANAGER	APPROVED BY DATE  THE ENGINEER	AS BUILT DRAWINGS	SHEET NO.
			LOCATION : FLOOD RELIEF CHANNEL (BANJIR KANAL)	NAME OF WORKS : WORKS AROUND PURUS SLUISE	TITLE : RE-BAR ARRANGEMENT OF WING WALL	BK-RI-SL-1					

## REINFORCEMENT BENDING SCHEDULE FOR WINGWALL



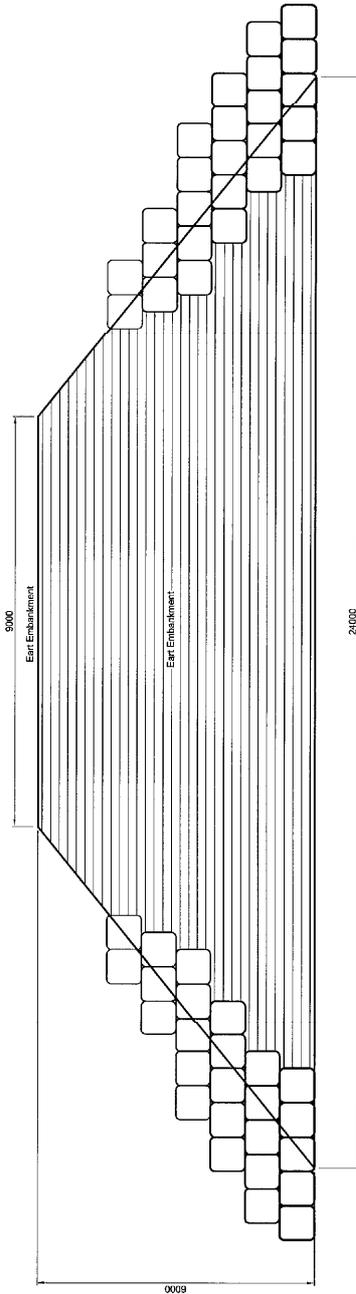
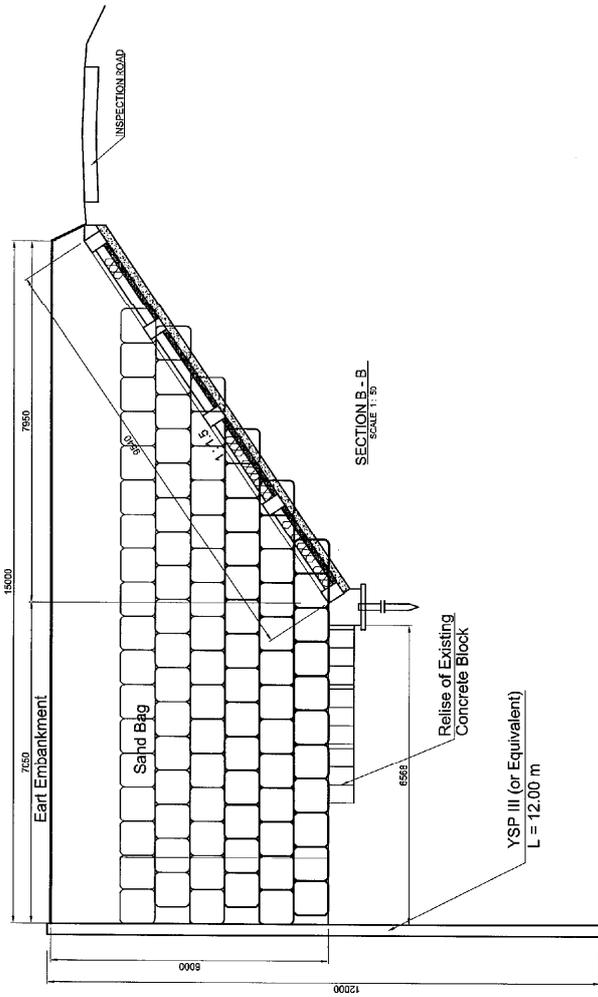
No.	MARK	TYPE	Nos. of BAR	DIA (mm)	BENDING SCHEDULE (mm)								TOTAL LENGTH (m)	WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)	
					a	b	c	d	e	f	g	h				Total
1	F 1	E	2	13	600	325	160	325	600	0	0	0	0	1570	1.04	4.18
2	F 2	E	2	13	600	459	160	459	600	0	0	0	0	1838	1.04	4.74
3	F 3	E	2	13	600	592	160	592	600	0	0	0	0	2104	1.04	5.29
4	F 4	E	2	13	600	725	160	725	600	0	0	0	0	2370	1.04	5.84
5	F 5	E	2	13	600	859	160	859	600	0	0	0	0	2638	1.04	6.40
6	F 6	E	2	13	600	992	160	992	600	0	0	0	0	2904	1.04	6.96
7	F 7	E	2	13	600	1125	160	1125	600	0	0	0	0	3170	1.04	7.51
8	F 8	E	2	13	600	1259	160	1259	600	0	0	0	0	3438	1.04	8.07
9	F 9	E	2	13	600	1392	160	1392	600	0	0	0	0	3704	1.04	8.62
10	F 10	E	2	13	600	1532	160	1532	600	0	0	0	0	3984	1.04	9.20
11	F 11	E	2	13	600	1663	160	1663	600	0	0	0	0	4246	1.04	9.75
12	F 12	E	2	13	600	1794	160	1794	600	0	0	0	0	4508	1.04	10.29
13	F 13	E	2	13	600	1925	160	1925	600	0	0	0	0	4770	1.04	10.84
14	F 14	A	4	13	256	0	0	0	0	0	0	0	0	256	1.04	1.06
15	F 15	A	4	13	556	0	0	0	0	0	0	0	0	556	1.04	2.31
16	F 16	A	4	13	855	0	0	0	0	0	0	0	0	855	1.04	3.56
17	F 17	A	4	13	1155	0	0	0	0	0	0	0	0	1155	1.04	4.80
18	F 18	A	4	13	1455	0	0	0	0	0	0	0	0	1455	1.04	6.05
19	F 19	A	4	13	1755	0	0	0	0	0	0	0	0	1755	1.04	7.30
20	F 20	A	4	13	2055	0	0	0	0	0	0	0	0	2055	1.04	8.55
21	F 21	A	4	13	2355	0	0	0	0	0	0	0	0	2355	1.04	9.80
22	F 22	J	4	13	100	108	252	108	100	0	0	0	0	668	1.04	2.78
<b>TOTAL BERAT</b>												<b>143.90</b>				

			Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE  PROJECT MANAGER	APPROVED BY DATE  THE ENGINEER	AS BUILT DRAWINGS LOCATION : FLOOD RELIEF CHANNEL (BANJIR KANAL) NAME OF WORKS : WORKS AROUND PURUS SLUICE TITLE : REINFORCEMENT BENDING OF WING WALL	SHEET NO. BK-R1-SL-2
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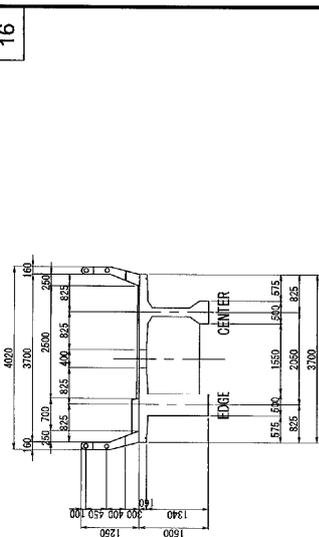


PLAN  
SCALE 1:100

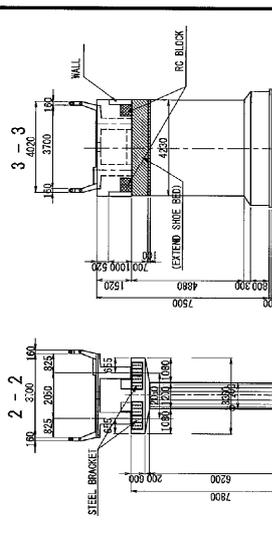
			Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	AS BUILT DRAWINGS LOCATION : FLOOD RELIEF CHANNEL (BANJIR KANAL) NAME OF WORKS : WORKS AROUND PURUS SLUICE TITLE : PLAN TEMPORARY COFFERING	SHEET NO. BK-R1-TC-11
								Ir. AELT HENDRO Project Manager	 The Engineer		



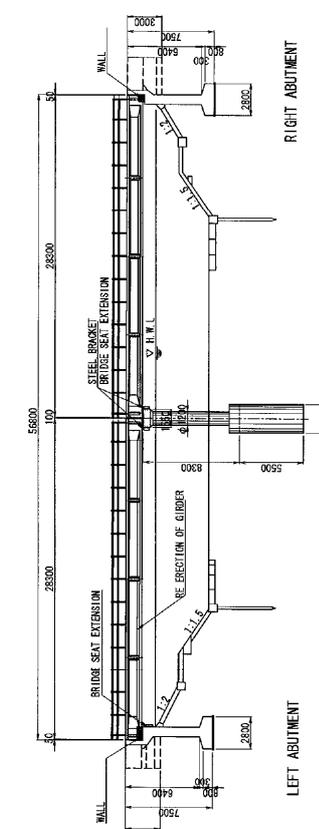
			Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang			REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE  J. LOLLY HENDRO Project Manager	APPROVED BY DATE  Yusuf Yusui The Engineer	AS BUILT DRAWINGS LOCATION : FLOOD RELIEF CHANNEL (BANJIR KANAL) NAME OF WORKS : WORKS AROUND PURUS SLUISE TITLE : SECTION OF TEMPORARY COVERING	SHEET NO BK-R1-TC 1-2
			SECTION A - A SCALE 1:50							



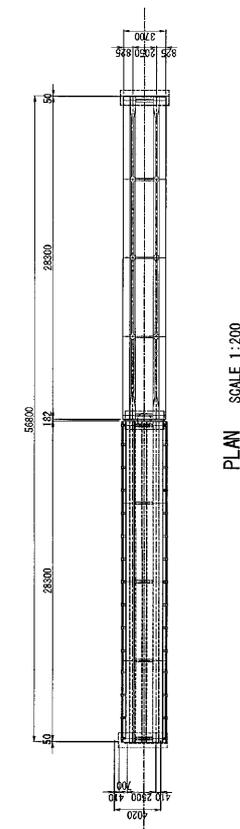
STANDARD CROSS SECTION SCALE 1:50



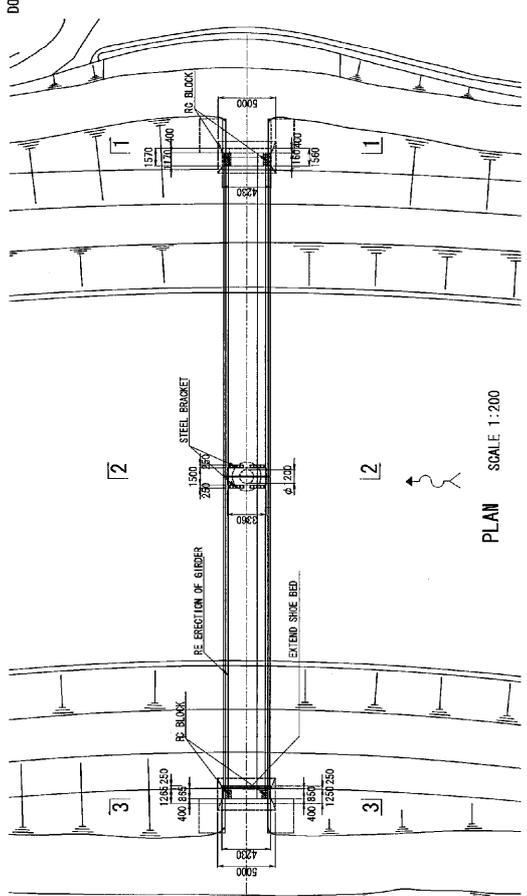
CROSS SECTION SCALE 1:100



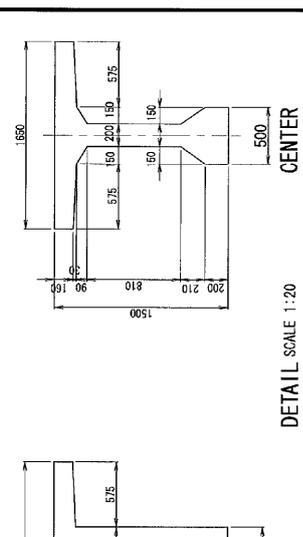
PROFILE SCALE 1:200



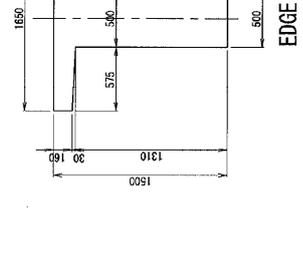
PLAN SCALE 1:200



PLAN SCALE 1:200



DETAIL SCALE 1:20



EDGE

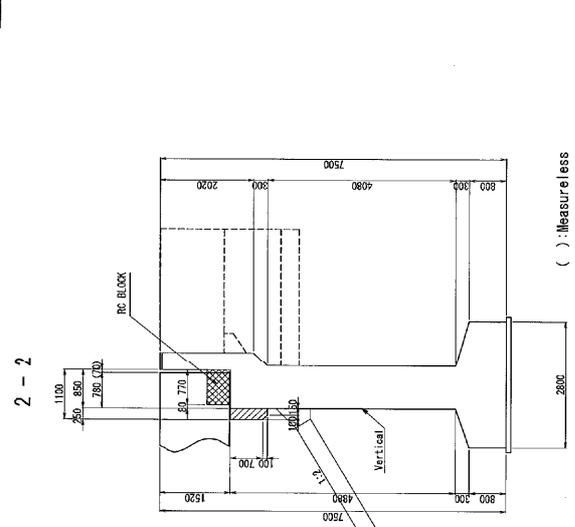
			Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	ASBUILT DRAWING	SHEET NO.
								 Project Manager	 The Engineer	LOCATION : FLOOD RELIEF CHANNEL (BANJIR KANAL) NAME OF WORKS : WORKS OF PARAK KOPU BRIDGE TITLE : PLAN, PROFILE & SECTION	BK-R3-G-1



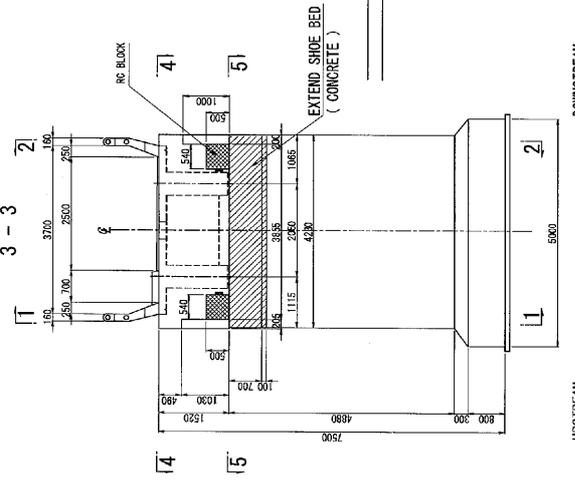




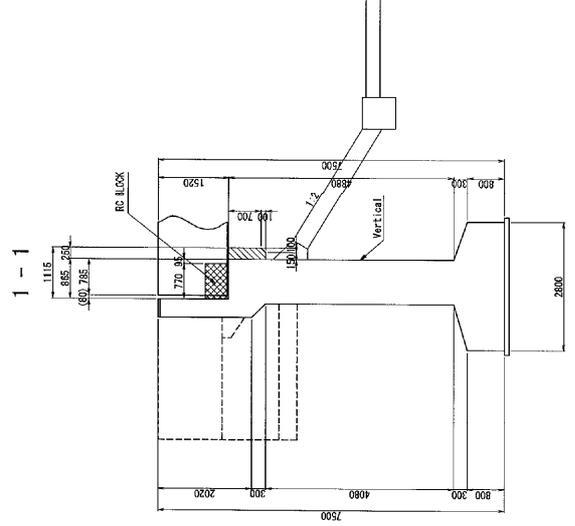




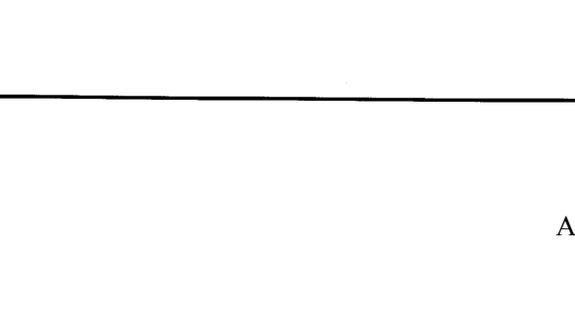
UPSTREAM SIDE VIEW SCALE 1:50



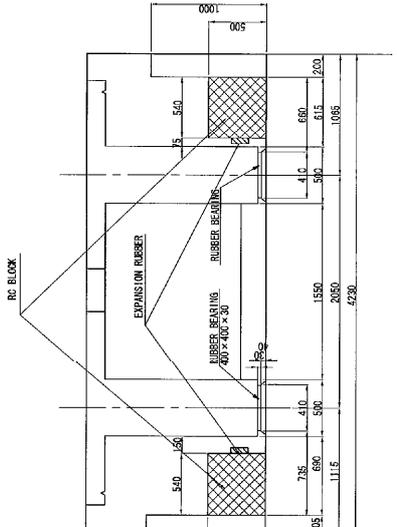
DOWNSTREAM SIDE VIEW SCALE 1:50



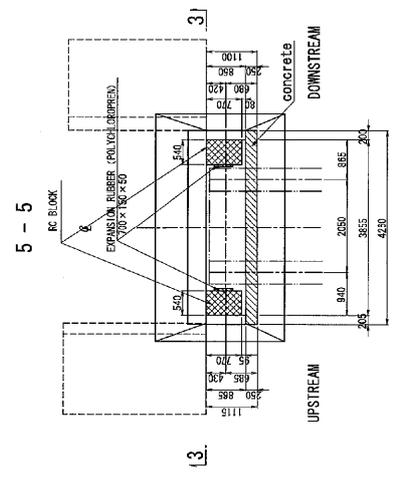
ELEVATION SCALE 1:50



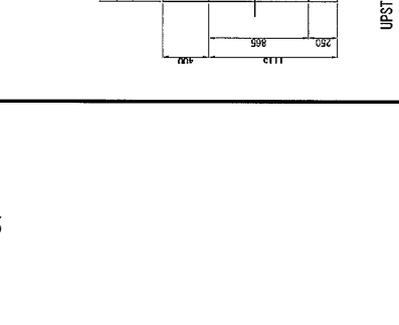
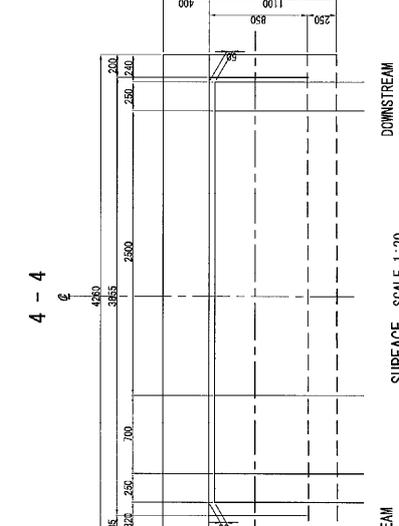
SURFACE SIDE VIEW SCALE 1:20



DETAIL OF BEARING SCALE 1:20



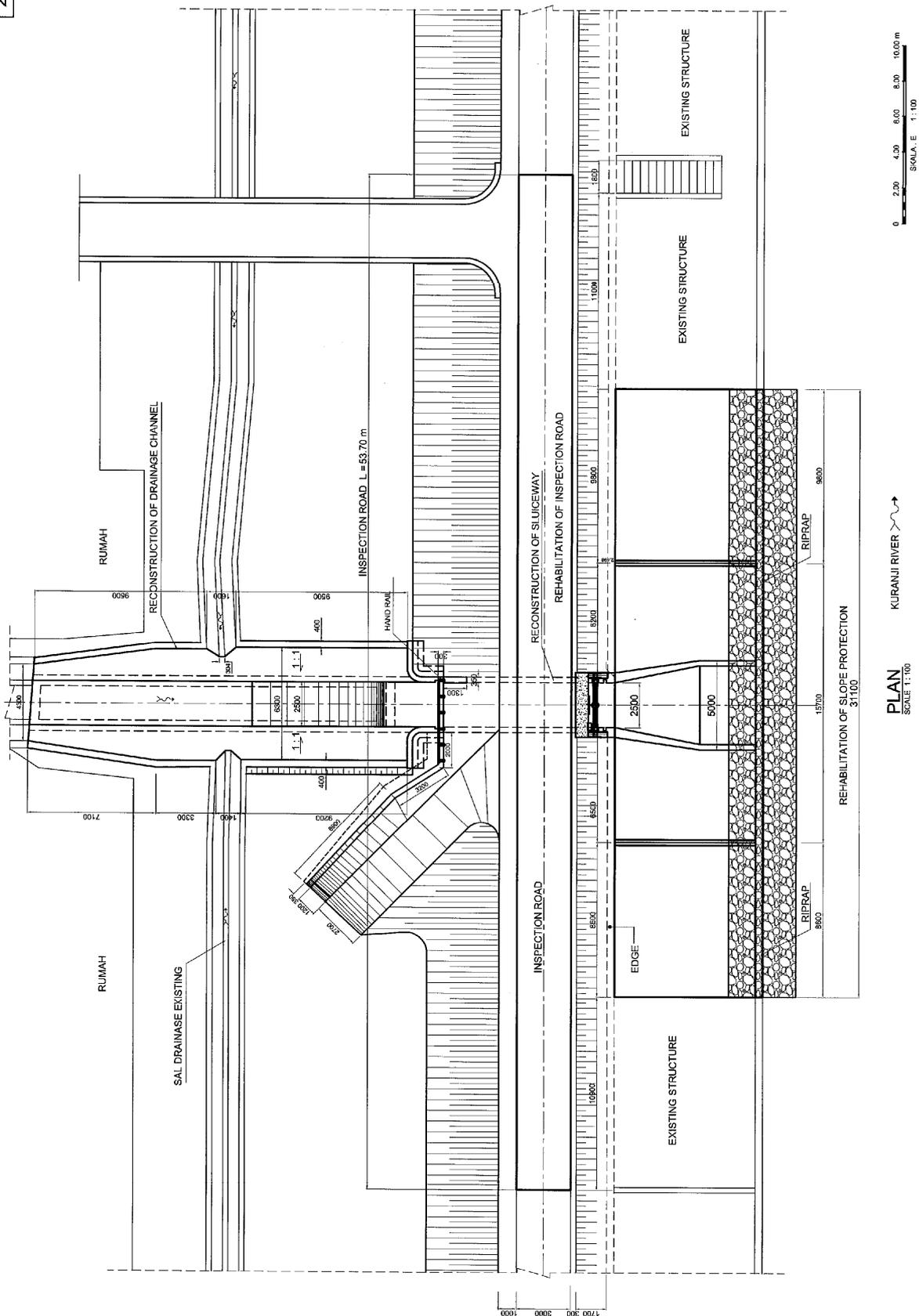
PLAN SCALE 1:50



LEFT ABUTMENT

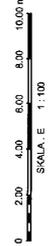
		Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	Ir. LUTY HENDRO Project Manager	APPROVED BY Yoseph USUI The Engineer	ASBUILT DRAWING	SHEET NO.
					LOCATION : FLOOD RELIEF CHANNEL (BANJIR KANAL) NAME OF WORKS : WORKS OF PARAK KOP1 BRIDGE TITLE : LEFT ABUTMENT PROFILE & SECTION	BK-R3-A2-7



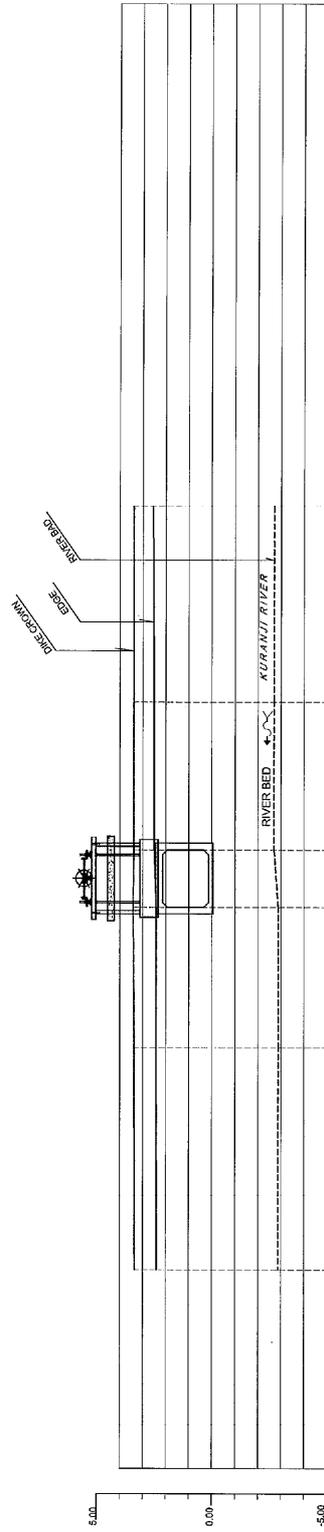


PLAN  
SCALE 1:100

KURANJI RIVER



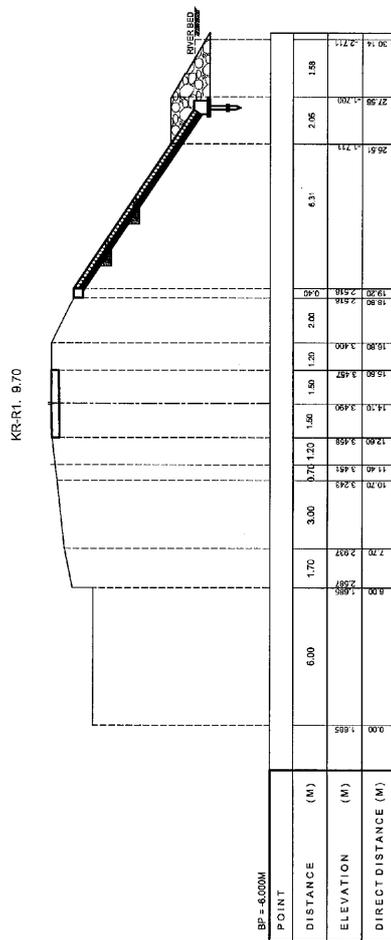
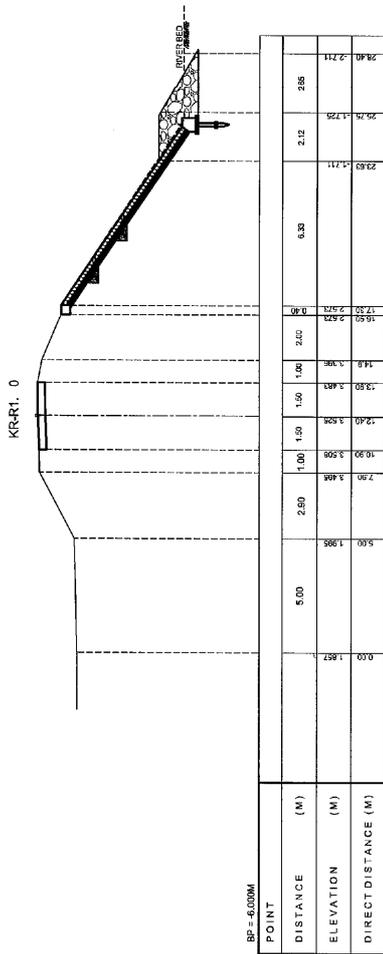
			Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	AS BUILT DRAWINGS	SHEET NO.	
								DATE	DATE	DATE	DATE	DATE
								Mr. LELY HENDRO Project Manager		NAME OF WORKS : WORKS AT SLUICeway K8 TITLE : PLAN		KR-R1-P-1



EL. OF DIKE CROWN	EL. OF DIKE EDGE	EL. OF RIVER BED	CUMULATIVE DISTANCE (M)	SECTION NO.
3.96	2.97	2.71	0.00	KR-R1 34.70
3.95	2.96	2.70	9.80	KR-R1 24.70
3.95	2.96	2.70	19.60	KR-R1 18.70
3.95	2.96	2.70	29.40	KR-R1 15.70
3.95	2.96	2.70	39.20	KR-R1 9.70
3.96	2.97	2.71	49.00	KR-R1 0



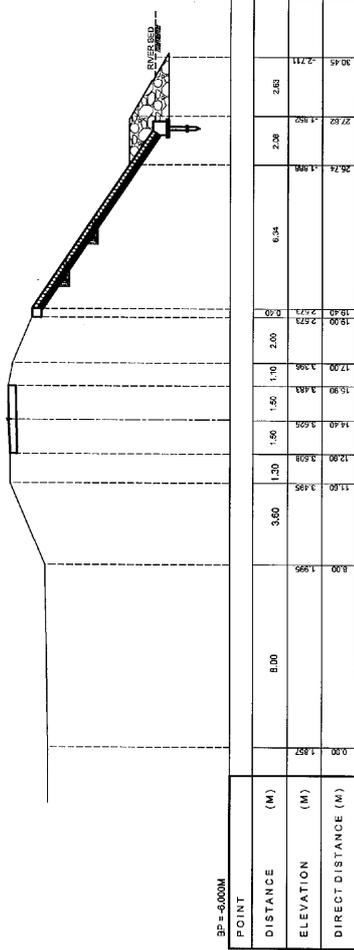
 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE I. L. L. HENDRO Project Manager	APPROVED BY DATE  Yusuf Jusuf The Engineer	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT SLUICEWAY K8 TITLE : LONGITUDINAL PROFILE OF LEFT DIKE	SHEET NO KR - R1 - LP-1
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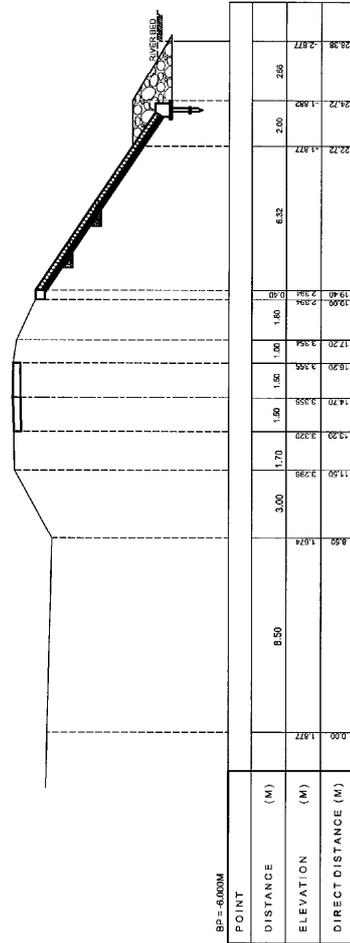
			Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	PROPOSED BY  LLOYL HENDRO Project Manager	APPROVED BY  YOSARIS USULI The Engineer	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT SLUJCEWAY K8 TITLE : CROSS SECTION PROFILE OF LEFT DIKE	SHEET NO. KR-R1-CS-1-1
--	--	--	--	--	--	--	---------------------------



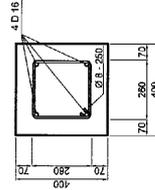
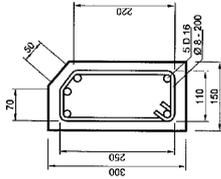
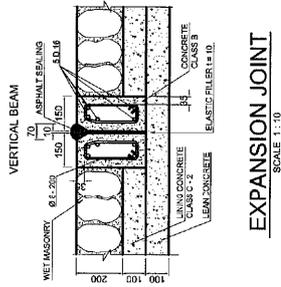
KR-R1. 24.70



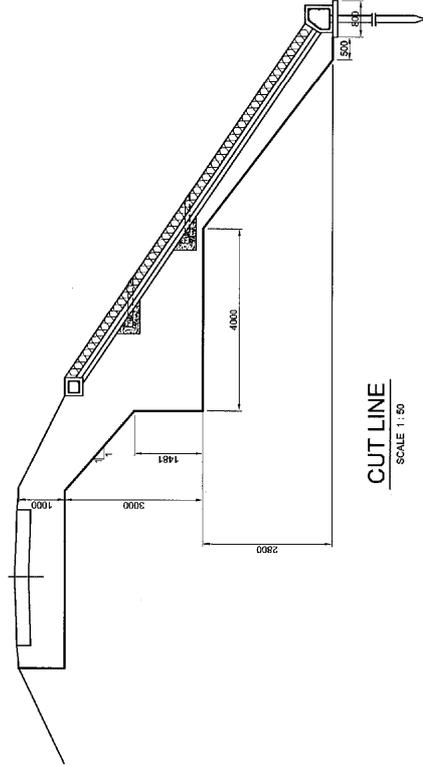
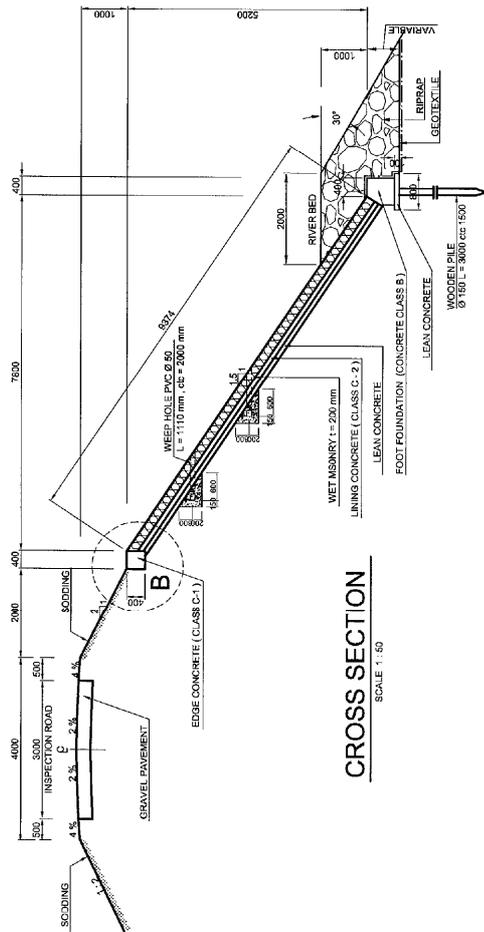
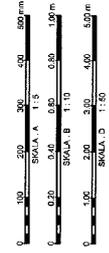
KR-R1. 34.70



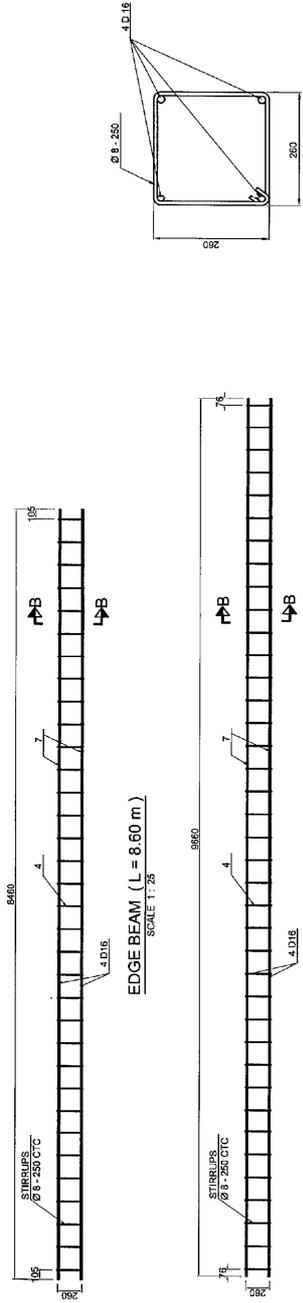
			Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT SLUICeway K8 TITLE : CROSS SECTION PROFILE OF LEFT DIKE	SHEET NO. KR-R1-CS-3
								J.F. LOLY HENDRO Project Manager	YOSHIMITSUJI The Engineer		



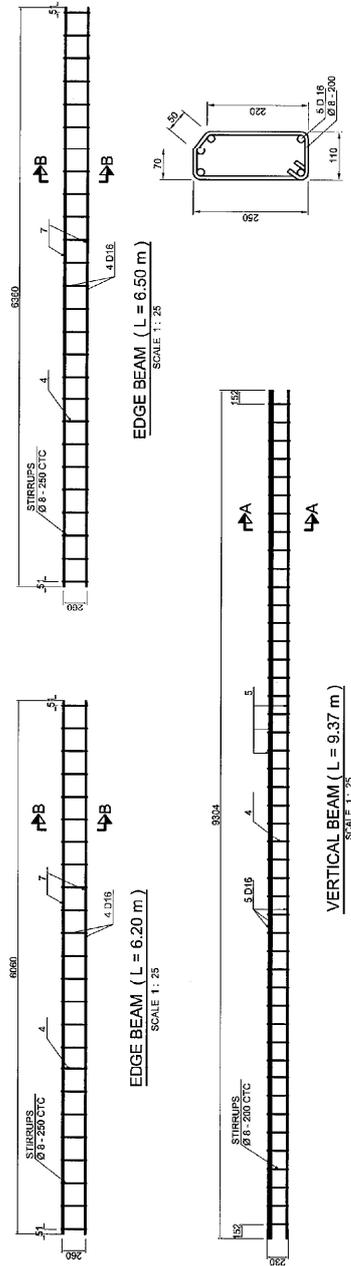
**DETAIL B ( EDGE BEAM )**  
SCALE 1 : 10



						Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang		AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT SLUICEWAY K8 TITLE : SLOPE PROTECTION WET MASONRY		SHEET NO. KR - R1 - SP - 1-1
REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE					
				F. LOJLY HENDRO Project Manager	 YUSUF USUL Civil Engineer					



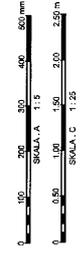
EDGE BEAM (SECTION B - B)  
SCALE 1:5



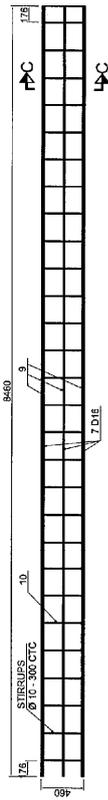
VERTICAL BEAM (SECTION A - A)  
SCALE 1:5

REINFORCEMENT OF BAR

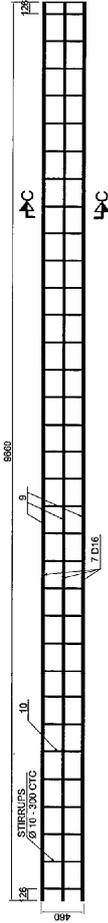
VERTICAL BEAM	REMARK	DIA (mm)	LENGTH (m)	PCS	KGm	TOTAL (Kg)
L = 8.37 m	4	8.8	0.18	47	0.40	14.66
	5	D-16	9.304	5	1.58	73.50
L = 9.80 m	4	8.8	1.12	39	0.40	17.47
	7	D-16	9.95	4	1.53	81.05
L = 6.20 m	4	8.8	1.12	24	0.40	10.75
	7	D-16	6.08	4	1.58	38.30
L = 6.50 m	4	8.8	1.12	34	0.40	15.23
	7	D-16	8.46	4	1.53	53.47
L = 6.50 m	4	8.8	1.12	26	0.40	11.20
	7	D-16	6.38	4	1.58	40.20



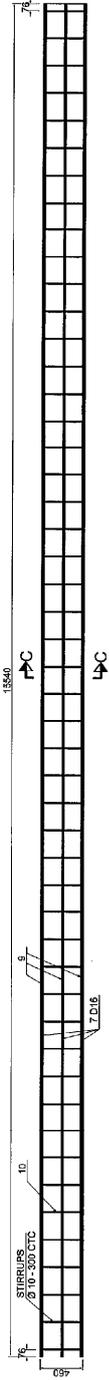
	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.   DATE   DESCRIPTION   BY	PROPOSED BY I. L. L. HENDRO Project Manager	APPROVED BY YOSRIANUSUI The Engineer	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT SLUCEWAY K8 TITLE : DETAIL REBAR OF SLOPE PROTECTION	SHEET NO. KR - RT - SP - 1-2
	PROJECT MANAGER: I. L. L. HENDRO ENGINEER: YOSRIANUSUI					



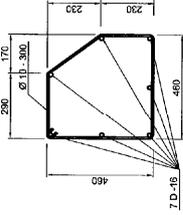
FOOT FOUNDATION ( L = 8.60 m )  
SCALE 1 : 25



FOOT FOUNDATION ( L = 9.80 m )  
SCALE 1 : 25



FOOT FOUNDATION ( L = 15.70 m )  
SCALE 1 : 25



FOOT FOUNDATION ( SECTION C - C )  
SCALE 1 : 10

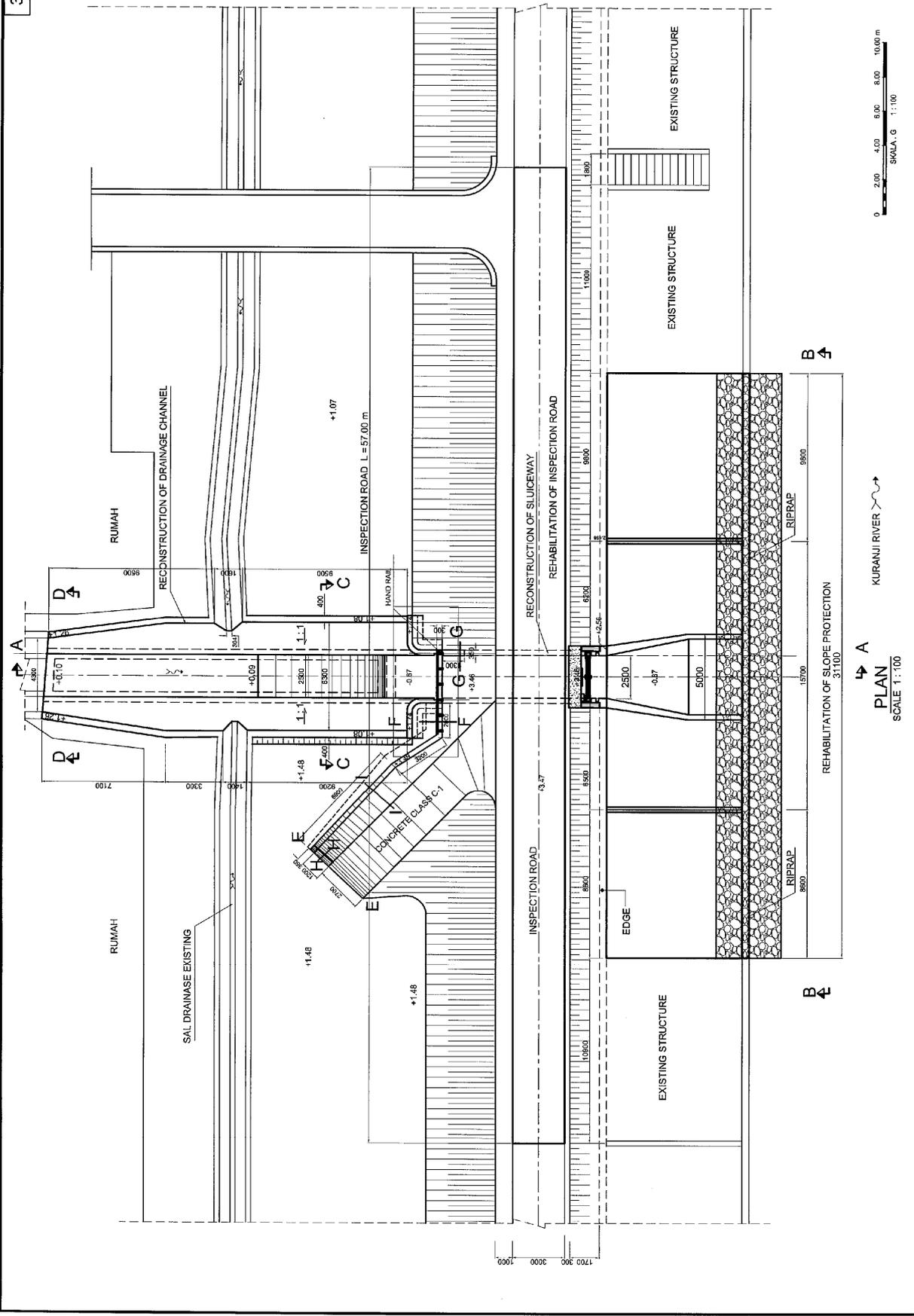
REINFORCEMENT OF BAR

REMARK	DIA (mm)	LENGTH (m)	PCS	Kg/m	TOTAL (Kg)
FOOT FOUNDATION L = 8.60 m	Ø 10	1.96	28	0.62	32.29
	D 16	8.46	7	1.59	93.57
FOOT FOUNDATION L = 9.80 m	Ø 10	1.96	32	0.62	38.90
	D 16	8.66	7	1.59	108.84
FOOT FOUNDATION L = 15.70 m	Ø 10	1.96	52	0.62	59.97
	D 16	14.35	7	1.59	109.21



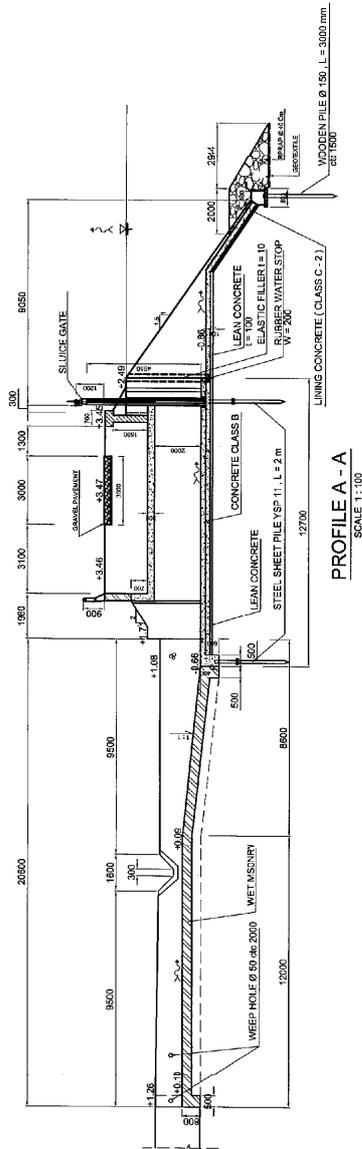
	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	SHEET NO. AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT SLUICEWAY K8 TITLE : DETAIL REBAR OF SLOPE PROTECTION
							H. LOY HENDRO Project Manager	



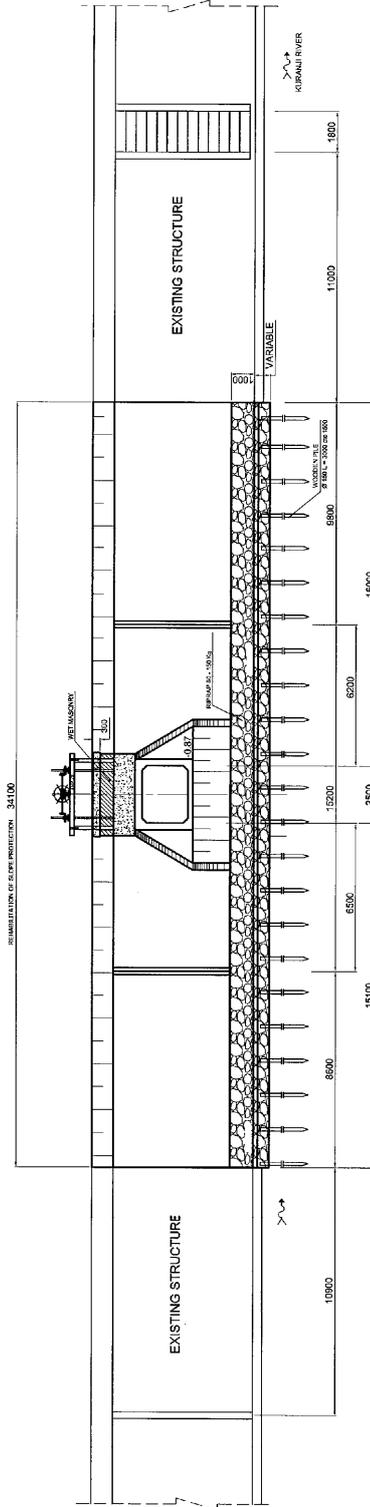


PLAN  
SCALE 1 : 100

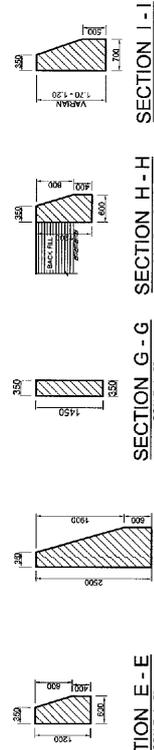
JICA BWSS-V	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	APPROVED BY	DATE	AS BUILT DRAWINGS	SHEET NO.
									LOCATION : KURANJI RIVER
WASKITA PT. WASKITA KARYA	Project Manager FLOLY HENDRO					Approved by YUSUF USUI The Engineer		NAME OF WORKS : WORKS AT SLUICeway K8 TITLE : PLAN	



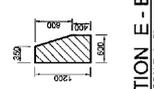
PROFILE A-A  
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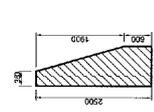
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SCALE 1:100



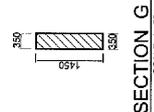
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SCALE 1:100



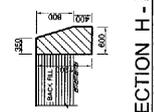
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SCALE 1:100



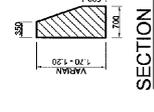
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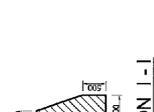
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SCALE 1:50



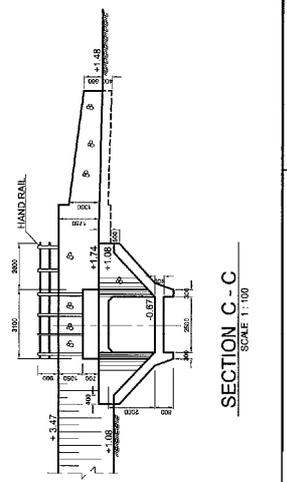
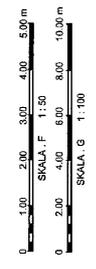
SECTION G-G  
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SECTION H-H  
SCALE 1:50

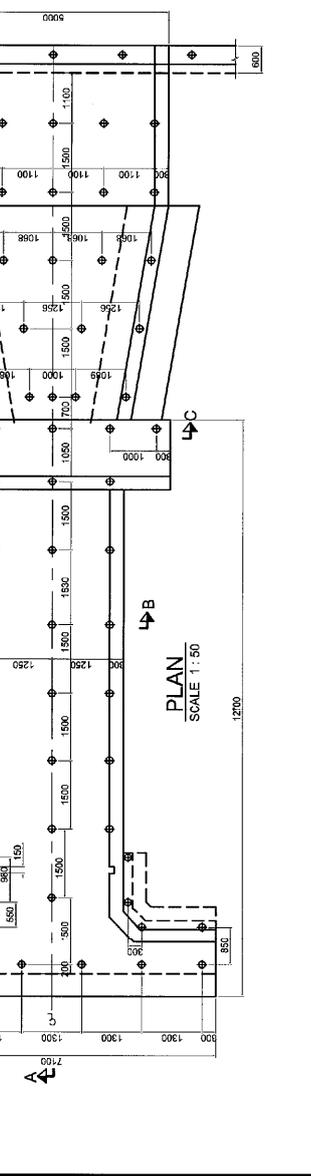
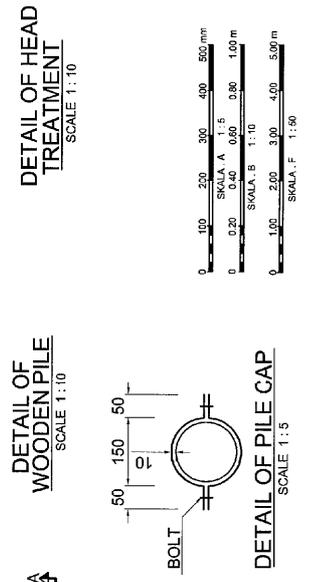
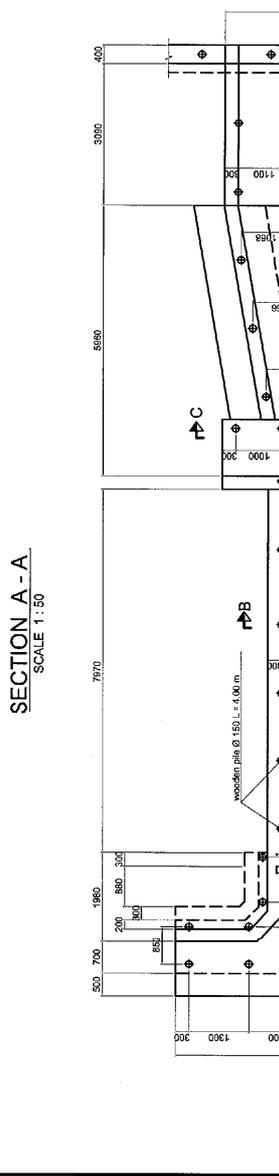
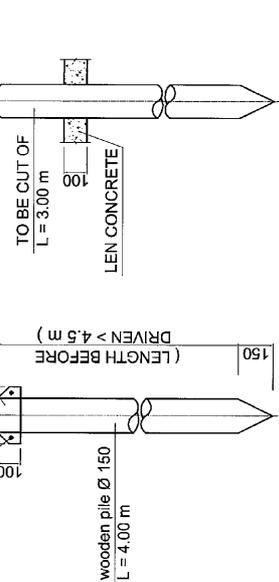
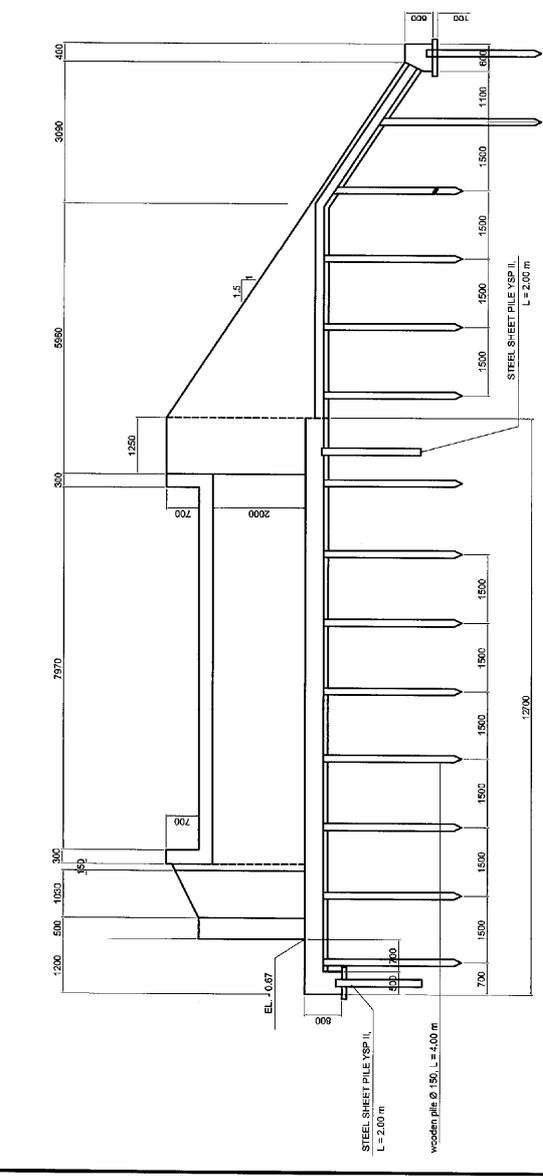
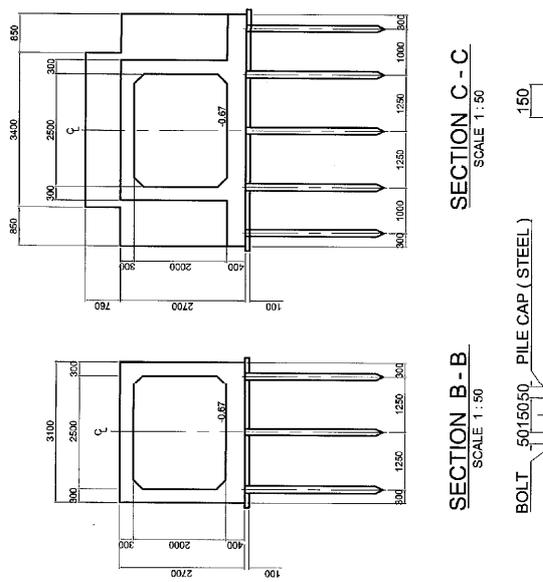


SECTION I-I  
SCALE 1:50



SECTION C-C  
SCALE 1:100

		Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT SLUICEWAY K3 TITLE : SECTION	SHEET NO. RR-R1-S-12



AS BUILT DRAWINGS	SHEET NO.
LOCATION : KURANJU RIVER	MR-RT-SL-13
NAME OF WORKS : WORKS AT SLUICEWAY K5	
TITLE : PLAN SECTION AND DETAIL OF PILE CONFIGURATION	

APPROVED BY	DATE
PROPOSED BY	DATE
BY	
REVISION	
DATE	
DESCRIPTION	

Republic of Indonesia  
Project for Post-earthquake Rehabilitation of  
Water Resources Management Facilities  
in Padang

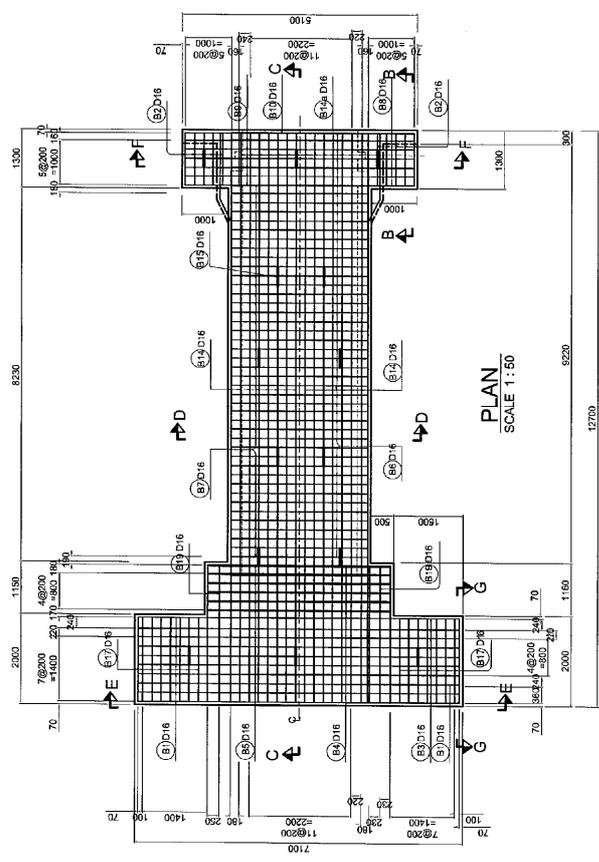
**JICA**  
JICA

**BWSS-V**  
BWSS-V

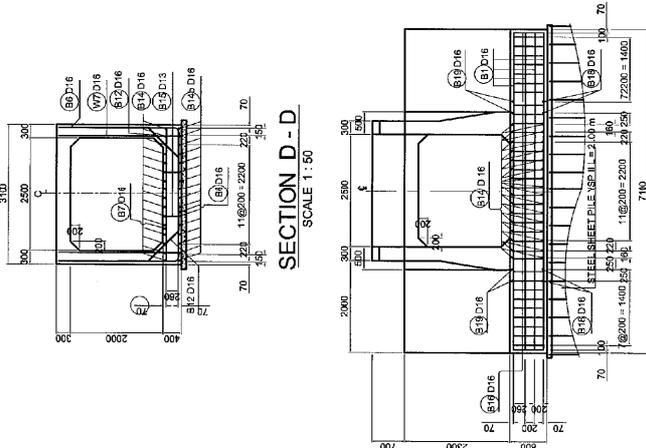
**WASKITA**  
PT. WASKITA KARYA

**YUSUF HENDRO**  
Project Manager

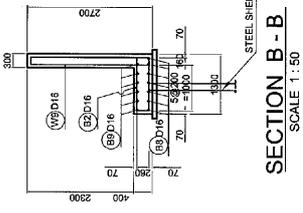
**YUSUF USJI**  
The Engineer



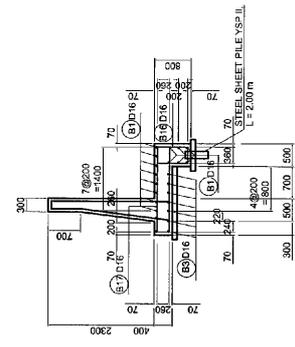
PLAN  
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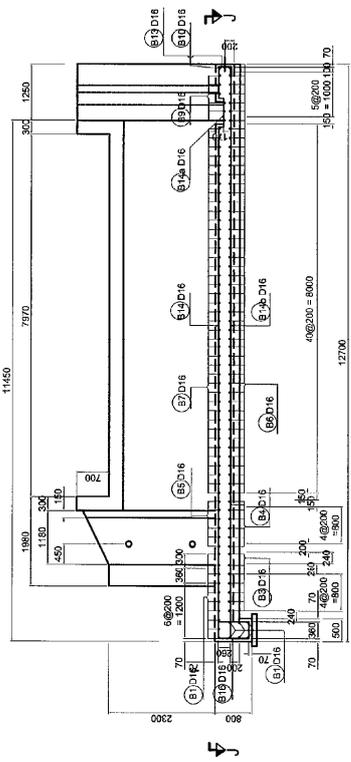
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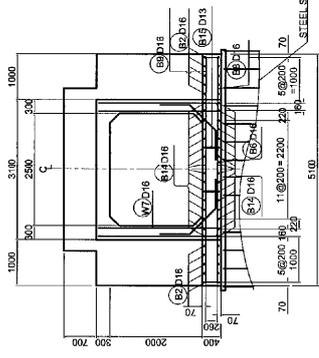
SECTION B-B  
SCALE 1:50



SECTION G-G  
SCALE 1:50



SECTION C-C  
SCALE 1:50

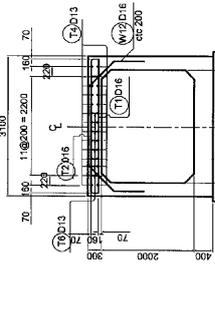


SECTION F-F  
SCALE 1:50

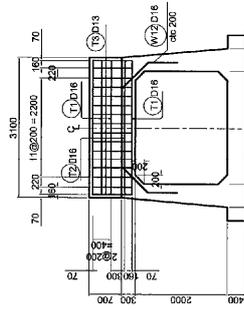


JICA BWSSV WASKITA PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	AS BUILT DRAWINGS	SHEET NO.
									LOCATION : KURANJI RIVER
						LUKY TIENDRO Project Manager	YUSRI USUI The Engineer	NAME OF WORKS : WORKS AT SLUCEWAY K8	
								TITLE : RE-BAR ARRANGEMENT	

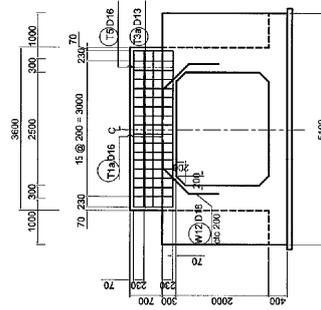




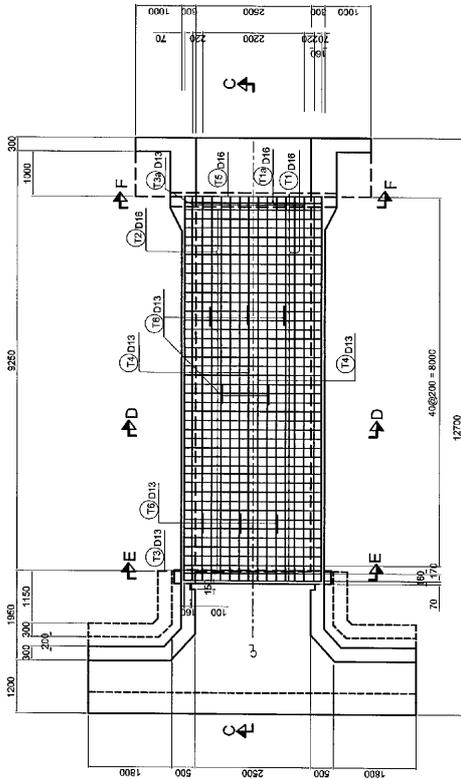
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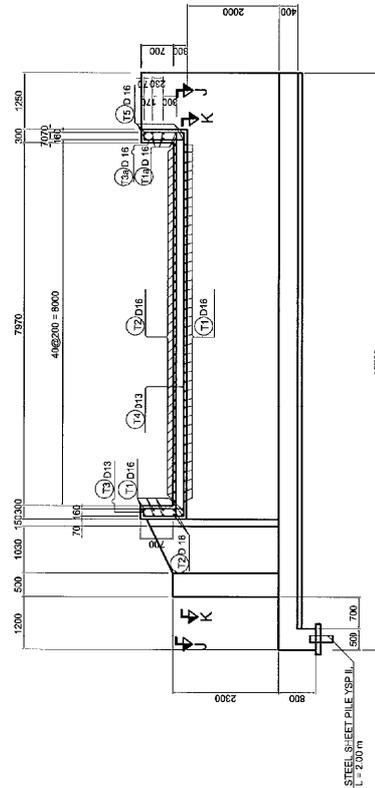
SECTION E - E  
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SECTION F - F  
SCALE 1 : 50



SECTION C - C  
SCALE 1 : 50



 JICA BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang				REV. DATE DESCRIPTION BY	PROPOSED BY DATE  TEJO HENDRO YUDIANTO Project manager	APPROVED BY DATE  YOSEPH USUI The Engineer	AS BUILT DRAWINGS	SHEET NO.
		LOCATION : KURANJI RIVER	NAME OF WORKS : WORKS AT SLUCEWAY K8	TITLE : RE-BAR ARRANGEMENT	RF - R1 - SL-18					



REINFORCEMENT BENDING SCHEDULE FOR CULVERT

No.	MARK TYPE	No. of BAR	DIA (mm)	BENDING SCHEDULE (mm)											TOTAL LENGTH (m)	WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
				a	b	c	d	e	f	g	h	Total					
64	F10	A	2	13	3305	0	0	0	0	0	0	0	0	3305	4.61	1.04	6.87
65	F11	A	2	13	3374	0	0	0	0	0	0	0	0	3374	4.75	1.04	7.02
66	F12	A	2	13	3443	0	0	0	0	0	0	0	0	3443	4.89	1.04	7.16
67	F13	A	2	13	3511	0	0	0	0	0	0	0	0	3511	5.02	1.04	7.30
68	F14	A	2	13	3580	0	0	0	0	0	0	0	0	3580	5.16	1.04	7.45
69	F15	A	2	13	3649	0	0	0	0	0	0	0	0	3649	5.30	1.04	7.59
70	F16	A	2	13	3718	0	0	0	0	0	0	0	0	3718	5.43	1.04	7.73
71	F17	A	2	13	3787	0	0	0	0	0	0	0	0	3787	5.57	1.04	7.87
72	F18	A	2	13	3856	0	0	0	0	0	0	0	0	3856	5.71	1.04	8.02
73	F19	A	2	13	3925	0	0	0	0	0	0	0	0	3925	5.85	1.04	8.16
74	F20	A	2	13	3994	0	0	0	0	0	0	0	0	3994	5.99	1.04	8.30
75	F21	A	2	13	4063	0	0	0	0	0	0	0	0	4063	6.12	1.04	8.44
76	F22	A	2	13	4132	0	0	0	0	0	0	0	0	4132	6.26	1.04	8.58
77	F23	A	2	13	4201	0	0	0	0	0	0	0	0	4201	6.40	1.04	8.72
78	F24	A	2	13	4270	0	0	0	0	0	0	0	0	4270	6.54	1.04	8.86
79	F25	A	2	13	4339	0	0	0	0	0	0	0	0	4339	6.68	1.04	9.00
80	F26	A	2	13	4408	0	0	0	0	0	0	0	0	4408	6.82	1.04	9.14
81	F27	A	2	13	4477	0	0	0	0	0	0	0	0	4477	6.96	1.04	9.28
82	F28	A	2	13	4546	0	0	0	0	0	0	0	0	4546	7.10	1.04	9.42
83	F29	A	2	13	4615	0	0	0	0	0	0	0	0	4615	7.24	1.04	9.56
84	F30	A	2	13	4684	0	0	0	0	0	0	0	0	4684	7.38	1.04	9.70
85	F31	A	2	13	4753	0	0	0	0	0	0	0	0	4753	7.52	1.04	9.84
86	F32	A	2	13	4822	0	0	0	0	0	0	0	0	4822	7.66	1.04	9.98
87	F33	A	2	13	4891	0	0	0	0	0	0	0	0	4891	7.80	1.04	10.12
88	F34	A	2	13	4960	0	0	0	0	0	0	0	0	4960	7.94	1.04	10.26
89	F35	A	2	13	5029	0	0	0	0	0	0	0	0	5029	8.08	1.04	10.40
90	F36	A	2	13	5098	0	0	0	0	0	0	0	0	5098	8.22	1.04	10.54
91	F37	A	2	13	5167	0	0	0	0	0	0	0	0	5167	8.36	1.04	10.68
92	F38	A	2	13	5236	0	0	0	0	0	0	0	0	5236	8.50	1.04	10.82
93	F39	A	2	13	5305	0	0	0	0	0	0	0	0	5305	8.64	1.04	10.96
94	F40	A	2	13	5374	0	0	0	0	0	0	0	0	5374	8.78	1.04	11.10
95	F41	A	2	13	5443	0	0	0	0	0	0	0	0	5443	8.92	1.04	11.24
96	F42	A	2	13	5512	0	0	0	0	0	0	0	0	5512	9.06	1.04	11.38
97	F43	A	2	13	5581	0	0	0	0	0	0	0	0	5581	9.20	1.04	11.52
98	F44	A	2	13	5650	0	0	0	0	0	0	0	0	5650	9.34	1.04	11.66
99	F45	A	2	13	5719	0	0	0	0	0	0	0	0	5719	9.48	1.04	11.80
100	F46	A	2	13	5788	0	0	0	0	0	0	0	0	5788	9.62	1.04	11.94
101	F47	A	2	13	5857	0	0	0	0	0	0	0	0	5857	9.76	1.04	12.08
102	F48	A	2	13	5926	0	0	0	0	0	0	0	0	5926	9.90	1.04	12.22
103	F49	A	2	13	5995	0	0	0	0	0	0	0	0	5995	10.04	1.04	12.36
104	F50	A	2	13	6064	0	0	0	0	0	0	0	0	6064	10.18	1.04	12.50
105	F51	A	2	13	6133	0	0	0	0	0	0	0	0	6133	10.32	1.04	12.64
106	F52	A	2	13	6202	0	0	0	0	0	0	0	0	6202	10.46	1.04	12.78
107	F53	A	2	13	6271	0	0	0	0	0	0	0	0	6271	10.60	1.04	12.92
108	F54	A	2	13	6340	0	0	0	0	0	0	0	0	6340	10.74	1.04	13.06
109	F55	A	2	13	6409	0	0	0	0	0	0	0	0	6409	10.88	1.04	13.20
110	F56	A	2	13	6478	0	0	0	0	0	0	0	0	6478	11.02	1.04	13.34
111	F57	A	2	13	6547	0	0	0	0	0	0	0	0	6547	11.16	1.04	13.48
112	F58	A	2	13	6616	0	0	0	0	0	0	0	0	6616	11.30	1.04	13.62
113	F59	A	2	13	6685	0	0	0	0	0	0	0	0	6685	11.44	1.04	13.76
114	F60	A	2	13	6754	0	0	0	0	0	0	0	0	6754	11.58	1.04	13.90
115	F61	A	2	13	6823	0	0	0	0	0	0	0	0	6823	11.72	1.04	14.04
116	F62	A	2	13	6892	0	0	0	0	0	0	0	0	6892	11.86	1.04	14.18
117	F63	A	2	13	6961	0	0	0	0	0	0	0	0	6961	12.00	1.04	14.32
118	F64	A	2	13	7030	0	0	0	0	0	0	0	0	7030	12.14	1.04	14.46
119	F65	A	2	13	7099	0	0	0	0	0	0	0	0	7099	12.28	1.04	14.60
120	F66	A	2	13	7168	0	0	0	0	0	0	0	0	7168	12.42	1.04	14.74
121	F67	A	2	13	7237	0	0	0	0	0	0	0	0	7237	12.56	1.04	14.88
122	F68	A	2	13	7306	0	0	0	0	0	0	0	0	7306	12.70	1.04	15.02
123	F69	A	2	13	7375	0	0	0	0	0	0	0	0	7375	12.84	1.04	15.16
124	F70	J	2	13	100	108	252	108	100	0	0	0	0	4657	143.38	1.04	154.32
125	F71	J	2	13	100	108	252	108	100	0	0	0	0	4657	143.38	1.04	154.32
126	F72	G	4	13	65	281	1350	281	1350	65	0	0	0	3410	124.04	1.04	126.04

AS BUILT DRAWINGS  
 LOCATION : KURANJI RIVER  
 NAME OF WORKS : WORKS AT SLUICEWAY K8  
 TITLE : REINFORCEMENT BENDING

APPROVED BY DATE: [Signature] The Engineer  
 PROPOSED BY DATE: [Signature] Project Manager

REV. DATE DESCRIPTION BY

Republic of Indonesia  
 Project for Post-earthquake Rehabilitation of  
 Water Resources Management Facilities  
 in Padang

PT. WASKITA KARYA  
 BWSS-V

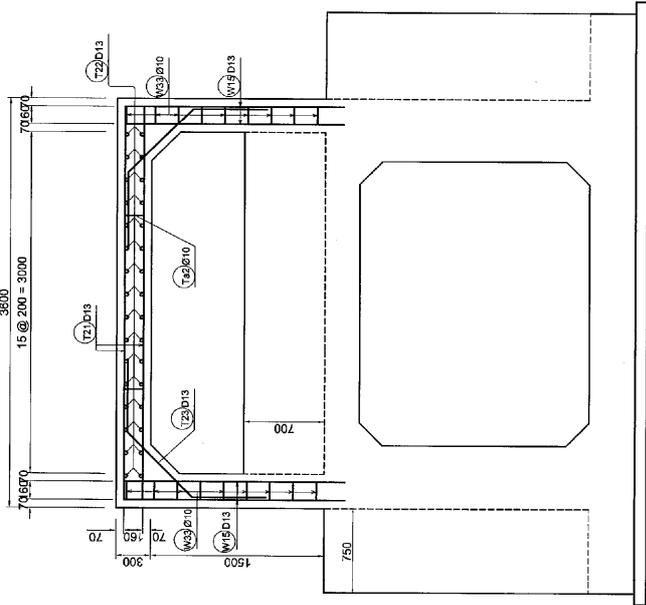
JICA

SHEET NO. KR-R1-SL-18

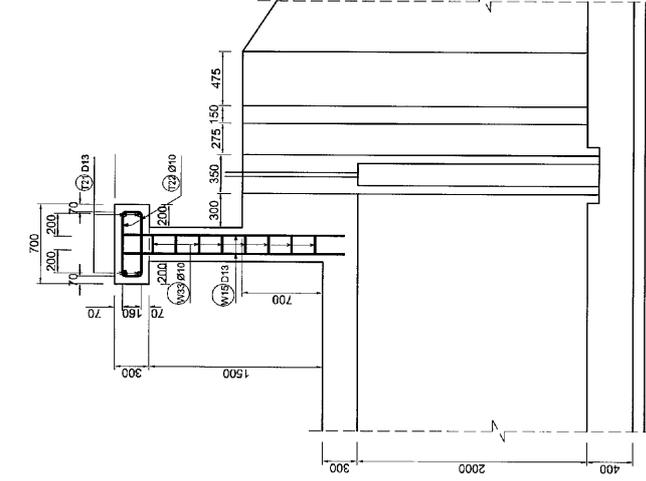
TOTAL BERAT : 7747.26

REINFORCEMENT BENDING SCHEDULE FOR CULVERT

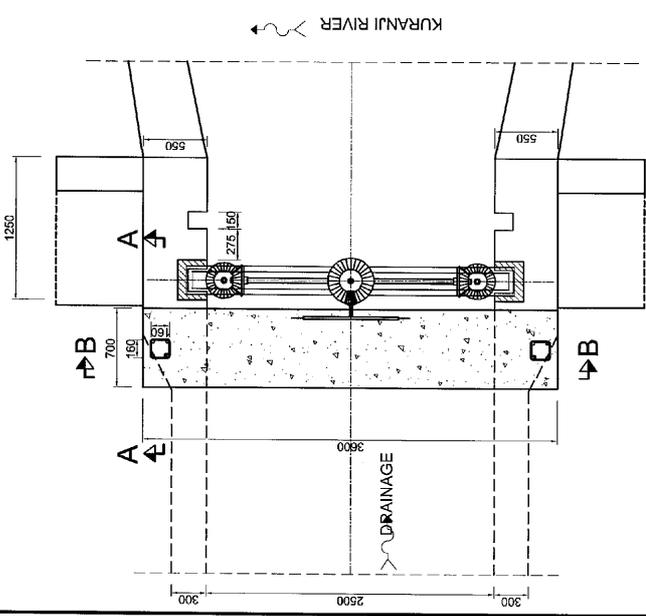
No.	MARK TYPE	No. of BAR	DIA (mm)	BENDING SCHEDULE (mm)											TOTAL LENGTH (m)	WEIGHT (Kg/m)	TOTAL WEIGHT (Kg)
				a	b	c	d	e	f	g	h	Total					
1	B1	A	16	6860	111.32	0	0	0	0	0	0	0	0	6971	1.58	102.84	
2	B2	B	7	1160	250	1160	0	0	0	0	0	0	0	2470	2.66	18.94	
3	B3	B	7	280	6590	280	0	0	0	0	0	0	0	7490	52.39	1.58	82.73
4	B4	B	6	16	3360	0	0	0	0	0	0	0	0	4220	2.32	1.58	40.01
5	B5	A	6	16	3360	0	0	0	0	0	0	0	0	3860	2.376	1.58	37.54
6	B6	B	7	16	3360	2450	3360	0	0	0	0	0	0	6810	110.48	1.58	172.06
7	B7	A	4	16	2330	2330	2330	0	0	0	0	0	0	3660	37.41	1.58	58.96
8	B8	A	7	16	200	4900	200	0	0	0	0	0	0	5400	34.32	1.58	53.84
9	B9	A	7	16	4900	0	0	0	0	0	0	0	0	4900	34.72	1.58	54.86
10	B10	C	16	640	915	640	0	0	0	0	0	0	0	2200	210.72	1.58	332.94
11	B11	C	16	640	915	640	0	0	0	0	0	0	0	460	6.44	1.58	10.12
12	B12	C	16	200	250	0	0	0	0	0	0	0	0	1050	25.73	1.58	40.70
13	B13	C	16	100	100	100	100	100	100	100	100	100	100	1320	1.58	1.58	2.52
14	B14	A	16	11285	0	0	0	0	0	0	0	0	0	11285	171.84	1.58	271.45
15	B15	J	14	75	196	254	196	65	0	0	0	0	0	795	11.00	1.04	11.64
16	B16	B	36	16	650	360	650	0	0	0	0	0	0	1680	60.48	1.58	95.55
17	B17	B	4	16	1650	260	1650	0	0	0	0	0	0	3360	63.88	1.58	100.81
18	B18	C	4	16	200	3310	0	0	0	0	0	0	0	3270	10.88	1.58	20.67
19	B19	A	16	3610	1041	654	1041	2850	0	0	0	0	0	5010	142.84	1.58	219.02
20	B20	A	26	16	1041	654	1041	2850	0	0	0	0	0	5430	152.46	1.58	234.45
21	W2	F	2	16	80	1841	742	160	2088	80	0	0	0	4874	11.34	1.58	17.92
22	W3	F	2	16	80	1841	742	160	2088	80	0	0	0	4874	11.34	1.58	17.92
23	W4	F	2	16	80	1841	742	160	2088	80	0	0	0	4874	11.34	1.58	17.92
24	W5	F	2	16	80	1841	742	160	2088	80	0	0	0	4874	11.34	1.58	17.92
25	W6	F															



SECTION B - B  
SCALE 1:20



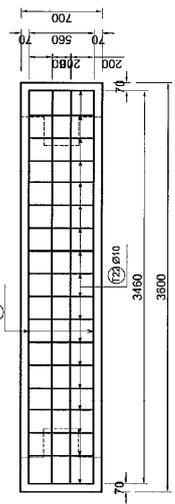
SECTION A - A  
SCALE 1:20



PLAN BRIDGE SERVICE  
SCALE 1:20

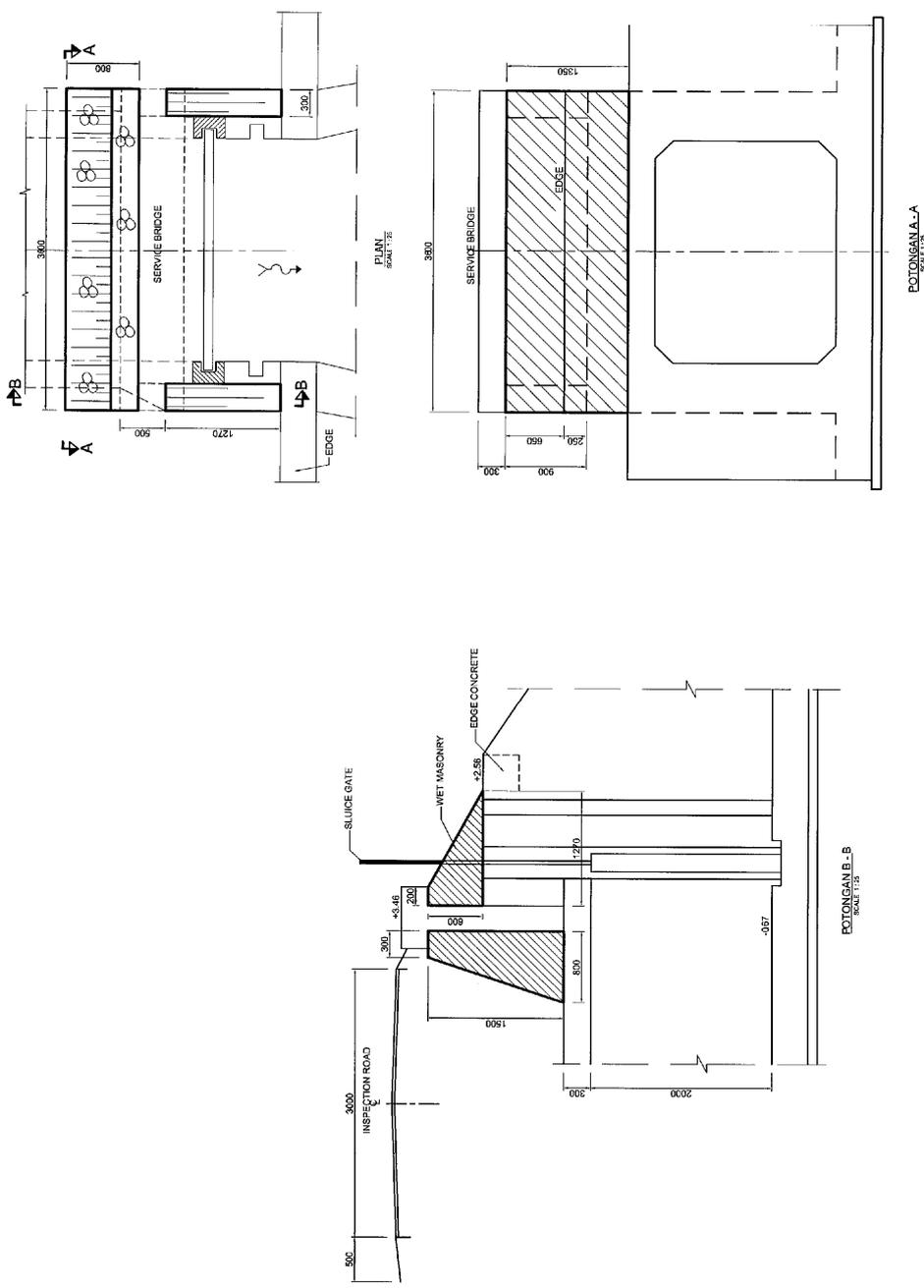
REINFORCEMENT BENDING SCHEDULE

No.	MARK	TYPE	Nos. of BAR	DIA (mm)	BENDING SCHEDULE (mm)						TOTAL LENGTH (m)	TOTAL WEIGHT (Kg)		
					a	b	c	d	e	f				
1	T21	A	8	13	3540	0	0	0	0	3540	283.2	1.04	28.45	
2	T22	D	16	10	50	160	580	160	580	50	1540	27.2	0.62	17.19
3	T23	F	3	13	640	795	640	0	0	2073	8.29	1.04	8.62	
4	T24	T	4	10	50	98	294	98	50	0	586	1.17	0.62	0.73
6	W15	E	8	13	1630	60	0	0	0	1920	23.34	1.04	23.96	
7	W33	D	18	10	50	160	160	160	160	50	740	7.43	0.62	4.59
BERAT TOTAL											84.54 Kg			



FRONT UP  
SCALE 1:20

			Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT SLUICEWAY K3 TITLE : RE-BAR ARRANGEMENT OF BRIDGE SERVICE	SHEET NO. KR-R'-S4-19
JICA PROJECT MANAGER	PT. WASKITA KARYA	YOGI HENDRO The Engineer	APPROVED BY DATE	PROPOSED BY DATE	REV.    DATE    DESCRIPTION    BY

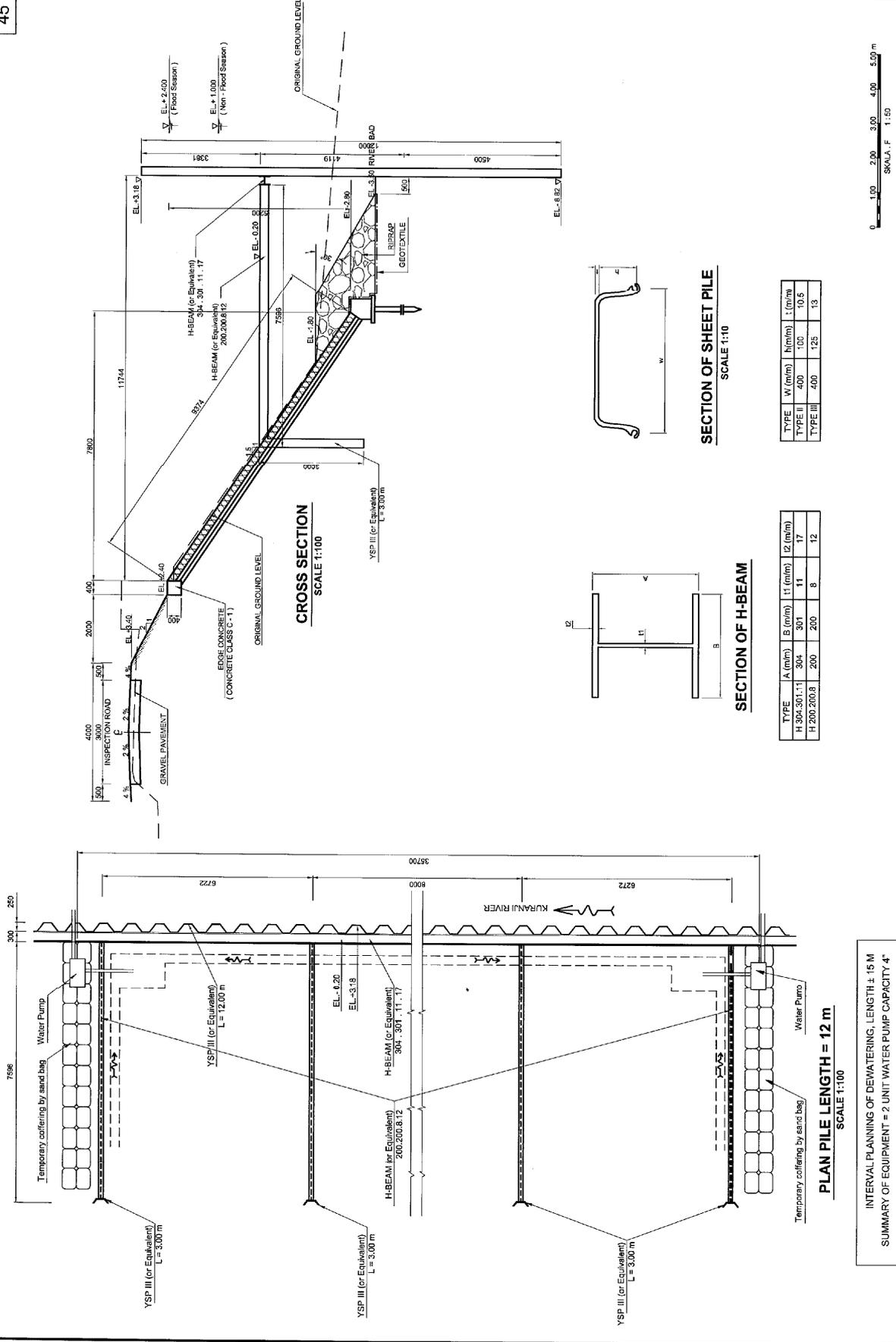


 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang				AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT SLUICEWAY K8 TITLE : RETAINING WALL	SHEET NO. KR - R1 - S1 - 1.10
			REV.	DATE	DESCRIPTION	BY		









TYPE	W (mm)	h (mm)	t (mm)
TYPE II	400	100	10.5
TYPE III	400	125	13

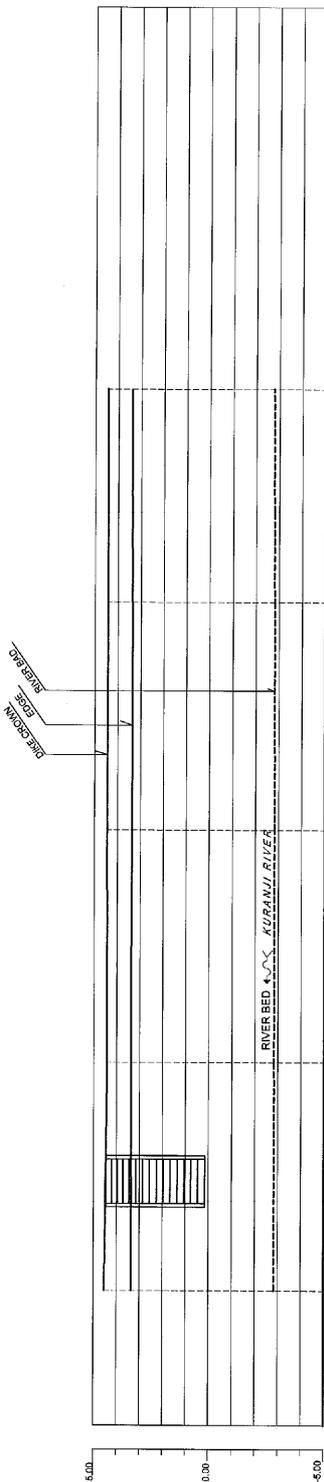
TYPE	A (mm)	B (mm)	t1 (mm)	t2 (mm)
H 304-301.1	304	301	11	17
H 200-200.8	200	200	8	12



JICA BWSS-V PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY I. LILY HENDRO Project Manager	APPROVED BY Y. LISUI Site Engineer	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT SLUICEWAY K8 TITLE : PLAN & SECTION OF TEMPORARY COFFERING	SHEET NO. KR-R1-TC-1
		: PLAN & SECTION OF TEMPORARY COFFERING							





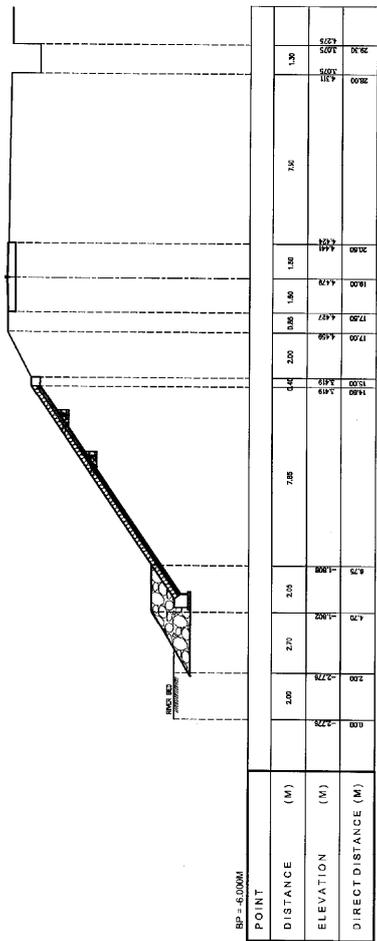


EL OF DIKE CROWN	EL OF RIVER BAD	CUMULATIVE DISTANCE (M) BETWEEN TWO SECTION	SECTION NO.
2.840	2.358	0.00	KR.R2 39.80
2.828	2.375	10.00	KR.R2 29.75
2.827	2.386	20.00	KR.R2 19.60
2.814	2.393	30.00	KR.R2 9.60
2.778	2.419	40.00	KR.R2 0

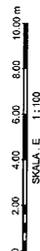
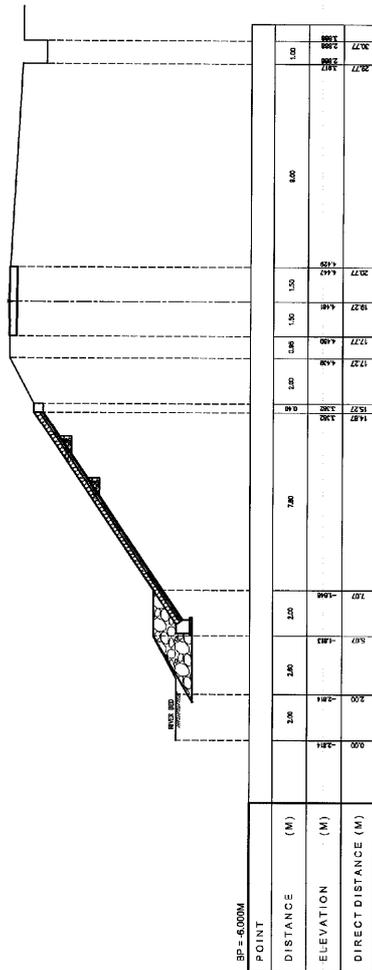


JICA	BWSS-V	WASKITA PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang		REV.    DATE    DESCRIPTION    BY	APPROVED BY DATE Yusuf Yusuf The Engineer	PROPOSED BY DATE Ir. Hery Hendoro Project Manager	AS BUILT DRAWINGS	SHEET NO. KR-R2-UP-12
			LOCATION : KURANJI RIVER	NAME OF WORKS : WORKS AT DOWNSTREAM SITE OF MANGALO BRIDGE				TITLE : LONGITUDINAL PROFILE OF RIGHT DIKE	

KR-R2: 0

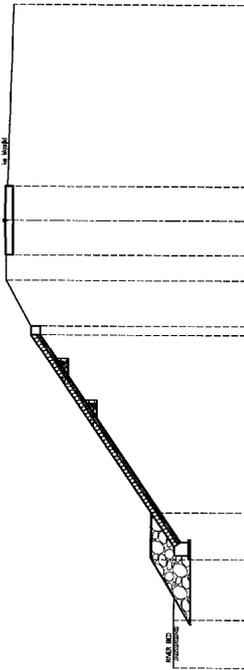


KR-R2: 9.60



JICA BWSS-V PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE APPROVED BY DATE I. TOHY HENDRO Project Manager Y. H. USUI The Engineer	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT DOWNSTREAM SITE OF MANGALO BRIDGE TITLE : CROSS SECTION PROFILE OF RIGHT DIKE	SHEET NO. KR - R2 - CS 1-1
		SKALA: E 1:100 0    2.00    4.00    6.00    8.00    10.00m			

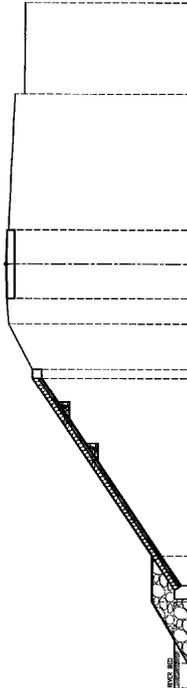
KR-R2: 19.60



BP = 6.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0+00	0.00	19.60	0.00
0+20	2.00	19.60	2.00
0+40	4.00	19.60	4.00
0+60	6.00	19.60	6.00
0+80	8.00	19.60	8.00
0+100	10.00	19.60	10.00
0+120	12.00	19.60	12.00
0+140	14.00	19.60	14.00
0+160	16.00	19.60	16.00
0+180	18.00	19.60	18.00
0+200	20.00	19.60	20.00

KR-R2: 23.75



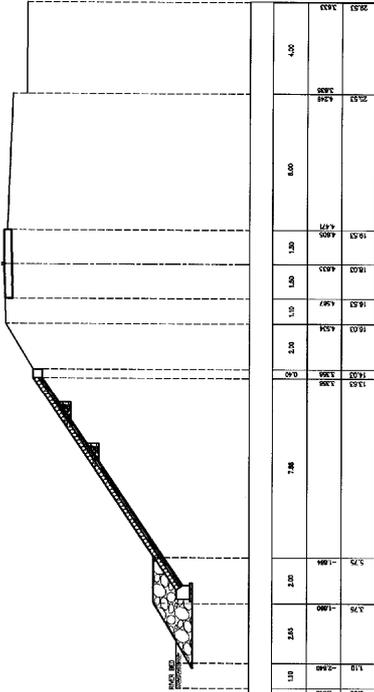
BP = 6.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0+00	0.00	23.75	0.00
0+20	2.00	23.75	2.00
0+40	4.00	23.75	4.00
0+60	6.00	23.75	6.00
0+80	8.00	23.75	8.00
0+100	10.00	23.75	10.00
0+120	12.00	23.75	12.00
0+140	14.00	23.75	14.00
0+160	16.00	23.75	16.00
0+180	18.00	23.75	18.00
0+200	20.00	23.75	20.00



 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE  PROJECT MANAGER	APPROVED BY DATE  THE ENGINEER	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT DOWNSTREAM SITE OF MANGGALO BRIDGE TITLE : CROSS SECTION PROFILE OF RIGHT DIKE	SHEET NO. KR - R2 - CS 1-2
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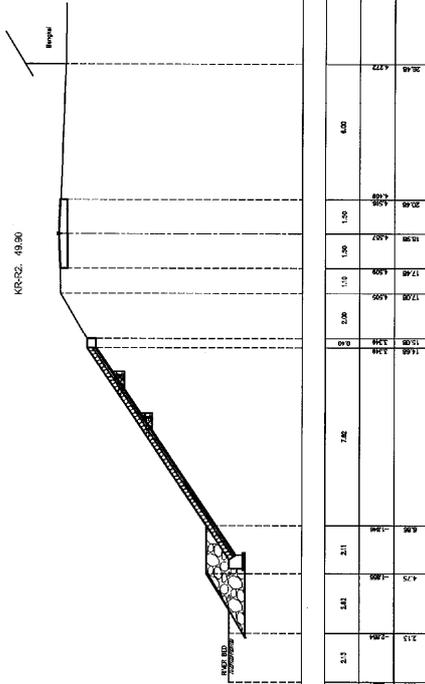
KR-R2: 36.80



BP = 4.000M

POINT	
DISTANCE (M)	4.00
ELEVATION (M)	4.00
DIRECT DISTANCE (M)	4.00

KR-R2: 49.90



BP = 4.000M

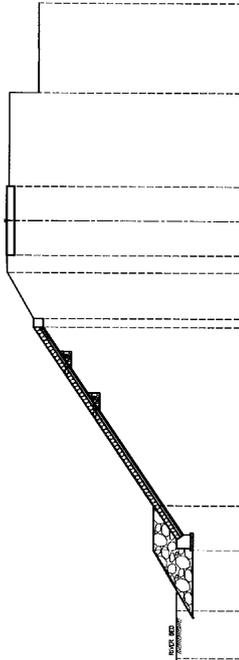
POINT	
DISTANCE (M)	4.00
ELEVATION (M)	4.00
DIRECT DISTANCE (M)	4.00



 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE	APPROVED BY DATE	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT DOWNSTREAM SITE OF MANGGALO BRIDGE TITLE : CROSS SECTION PROFILE OF RIGHT DIKE	SHEET NO. KR-R2-CS-1/3
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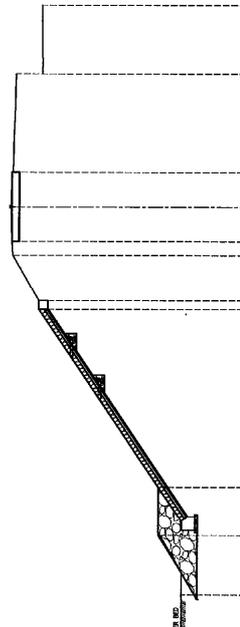
KR-RZ: 80.00



BP = 0.000M

POINT		DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0.00	-2.80	2.19	2.20	2.19
1.00	-2.80	2.27	1.90	2.27
2.00	-2.80	2.35	1.50	2.35
3.00	-2.80	2.43	1.10	2.43
4.00	-2.80	2.51	0.70	2.51
5.00	-2.80	2.59	0.30	2.59
6.00	-2.80	2.67	0.00	2.67
7.00	-2.80	2.75	0.00	2.75
8.00	-2.80	2.83	0.00	2.83
9.00	-2.80	2.91	0.00	2.91
10.00	-2.80	2.99	0.00	2.99
11.00	-2.80	3.07	0.00	3.07
12.00	-2.80	3.15	0.00	3.15
13.00	-2.80	3.23	0.00	3.23
14.00	-2.80	3.31	0.00	3.31
15.00	-2.80	3.39	0.00	3.39
16.00	-2.80	3.47	0.00	3.47
17.00	-2.80	3.55	0.00	3.55
18.00	-2.80	3.63	0.00	3.63
19.00	-2.80	3.71	0.00	3.71
20.00	-2.80	3.79	0.00	3.79
21.00	-2.80	3.87	0.00	3.87
22.00	-2.80	3.95	0.00	3.95
23.00	-2.80	4.03	0.00	4.03
24.00	-2.80	4.11	0.00	4.11
25.00	-2.80	4.19	0.00	4.19
26.00	-2.80	4.27	0.00	4.27
27.00	-2.80	4.35	0.00	4.35
28.00	-2.80	4.43	0.00	4.43
29.00	-2.80	4.51	0.00	4.51
30.00	-2.80	4.59	0.00	4.59
31.00	-2.80	4.67	0.00	4.67
32.00	-2.80	4.75	0.00	4.75
33.00	-2.80	4.83	0.00	4.83
34.00	-2.80	4.91	0.00	4.91
35.00	-2.80	4.99	0.00	4.99
36.00	-2.80	5.07	0.00	5.07
37.00	-2.80	5.15	0.00	5.15
38.00	-2.80	5.23	0.00	5.23
39.00	-2.80	5.31	0.00	5.31
40.00	-2.80	5.39	0.00	5.39
41.00	-2.80	5.47	0.00	5.47
42.00	-2.80	5.55	0.00	5.55
43.00	-2.80	5.63	0.00	5.63
44.00	-2.80	5.71	0.00	5.71
45.00	-2.80	5.79	0.00	5.79
46.00	-2.80	5.87	0.00	5.87
47.00	-2.80	5.95	0.00	5.95
48.00	-2.80	6.03	0.00	6.03
49.00	-2.80	6.11	0.00	6.11
50.00	-2.80	6.19	0.00	6.19
51.00	-2.80	6.27	0.00	6.27
52.00	-2.80	6.35	0.00	6.35
53.00	-2.80	6.43	0.00	6.43
54.00	-2.80	6.51	0.00	6.51
55.00	-2.80	6.59	0.00	6.59
56.00	-2.80	6.67	0.00	6.67
57.00	-2.80	6.75	0.00	6.75
58.00	-2.80	6.83	0.00	6.83
59.00	-2.80	6.91	0.00	6.91
60.00	-2.80	6.99	0.00	6.99
61.00	-2.80	7.07	0.00	7.07
62.00	-2.80	7.15	0.00	7.15
63.00	-2.80	7.23	0.00	7.23
64.00	-2.80	7.31	0.00	7.31
65.00	-2.80	7.39	0.00	7.39
66.00	-2.80	7.47	0.00	7.47
67.00	-2.80	7.55	0.00	7.55
68.00	-2.80	7.63	0.00	7.63
69.00	-2.80	7.71	0.00	7.71
70.00	-2.80	7.79	0.00	7.79
71.00	-2.80	7.87	0.00	7.87
72.00	-2.80	7.95	0.00	7.95
73.00	-2.80	8.03	0.00	8.03
74.00	-2.80	8.11	0.00	8.11
75.00	-2.80	8.19	0.00	8.19
76.00	-2.80	8.27	0.00	8.27
77.00	-2.80	8.35	0.00	8.35
78.00	-2.80	8.43	0.00	8.43
79.00	-2.80	8.51	0.00	8.51
80.00	-2.80	8.59	0.00	8.59
81.00	-2.80	8.67	0.00	8.67
82.00	-2.80	8.75	0.00	8.75
83.00	-2.80	8.83	0.00	8.83
84.00	-2.80	8.91	0.00	8.91
85.00	-2.80	8.99	0.00	8.99
86.00	-2.80	9.07	0.00	9.07
87.00	-2.80	9.15	0.00	9.15
88.00	-2.80	9.23	0.00	9.23
89.00	-2.80	9.31	0.00	9.31
90.00	-2.80	9.39	0.00	9.39
91.00	-2.80	9.47	0.00	9.47
92.00	-2.80	9.55	0.00	9.55
93.00	-2.80	9.63	0.00	9.63
94.00	-2.80	9.71	0.00	9.71
95.00	-2.80	9.79	0.00	9.79
96.00	-2.80	9.87	0.00	9.87
97.00	-2.80	9.95	0.00	9.95
98.00	-2.80	10.03	0.00	10.03
99.00	-2.80	10.11	0.00	10.11
100.00	-2.80	10.19	0.00	10.19

KR-RZ: 80.00



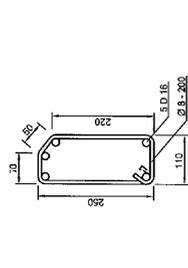
BP = 0.000M

POINT		DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0.00	-2.80	2.19	2.20	2.19
1.00	-2.80	2.27	1.90	2.27
2.00	-2.80	2.35	1.50	2.35
3.00	-2.80	2.43	1.10	2.43
4.00	-2.80	2.51	0.70	2.51
5.00	-2.80	2.59	0.30	2.59
6.00	-2.80	2.67	0.00	2.67
7.00	-2.80	2.75	0.00	2.75
8.00	-2.80	2.83	0.00	2.83
9.00	-2.80	2.91	0.00	2.91
10.00	-2.80	2.99	0.00	2.99
11.00	-2.80	3.07	0.00	3.07
12.00	-2.80	3.15	0.00	3.15
13.00	-2.80	3.23	0.00	3.23
14.00	-2.80	3.31	0.00	3.31
15.00	-2.80	3.39	0.00	3.39
16.00	-2.80	3.47	0.00	3.47
17.00	-2.80	3.55	0.00	3.55
18.00	-2.80	3.63	0.00	3.63
19.00	-2.80	3.71	0.00	3.71
20.00	-2.80	3.79	0.00	3.79
21.00	-2.80	3.87	0.00	3.87
22.00	-2.80	3.95	0.00	3.95
23.00	-2.80	4.03	0.00	4.03
24.00	-2.80	4.11	0.00	4.11
25.00	-2.80	4.19	0.00	4.19
26.00	-2.80	4.27	0.00	4.27
27.00	-2.80	4.35	0.00	4.35
28.00	-2.80	4.43	0.00	4.43
29.00	-2.80	4.51	0.00	4.51
30.00	-2.80	4.59	0.00	4.59
31.00	-2.80	4.67	0.00	4.67
32.00	-2.80	4.75	0.00	4.75
33.00	-2.80	4.83	0.00	4.83
34.00	-2.80	4.91	0.00	4.91
35.00	-2.80	4.99	0.00	4.99
36.00	-2.80	5.07	0.00	5.07
37.00	-2.80	5.15	0.00	5.15
38.00	-2.80	5.23	0.00	5.23
39.00	-2.80	5.31	0.00	5.31
40.00	-2.80	5.39	0.00	5.39
41.00	-2.80	5.47	0.00	5.47
42.00	-2.80	5.55	0.00	5.55
43.00	-2.80	5.63	0.00	5.63
44.00	-2.80	5.71	0.00	5.71
45.00	-2.80	5.79	0.00	5.79
46.00	-2.80	5.87	0.00	5.87
47.00	-2.80	5.95	0.00	5.95
48.00	-2.80	6.03	0.00	6.03
49.00	-2.80	6.11	0.00	6.11
50.00	-2.80	6.19	0.00	6.19
51.00	-2.80	6.27	0.00	6.27
52.00	-2.80	6.35	0.00	6.35
53.00	-2.80	6.43	0.00	6.43
54.00	-2.80	6.51	0.00	6.51
55.00	-2.80	6.59	0.00	6.59
56.00	-2.80	6.67	0.00	6.67
57.00	-2.80	6.75	0.00	6.75
58.00	-2.80	6.83	0.00	6.83
59.00	-2.80	6.91	0.00	6.91
60.00	-2.80	6.99	0.00	6.99
61.00	-2.80	7.07	0.00	7.07
62.00	-2.80	7.15	0.00	7.15
63.00	-2.80	7.23	0.00	7.23
64.00	-2.80	7.31	0.00	7.31
65.00	-2.80	7.39	0.00	7.39
66.00	-2.80	7.47	0.00	7.47
67.00	-2.80	7.55	0.00	7.55
68.00	-2.80	7.63	0.00	7.63
69.00	-2.80	7.71	0.00	7.71
70.00	-2.80	7.79	0.00	7.79
71.00	-2.80	7.87	0.00	7.87
72.00	-2.80	7.95	0.00	7.95
73.00	-2.80	8.03	0.00	8.03
74.00	-2.80	8.11	0.00	8.11
75.00	-2.80	8.19	0.00	8.19
76.00	-2.80	8.27	0.00	8.27
77.00	-2.80	8.35	0.00	8.35
78.00	-2.80	8.43	0.00	8.43
79.00	-2.80	8.51	0.00	8.51
80.00	-2.80	8.59	0.00	8.59
81.00	-2.80	8.67	0.00	8.67
82.00	-2.80	8.75	0.00	8.75
83.00	-2.80	8.83	0.00	8.83
84.00	-2.80	8.91	0.00	8.91
85.00	-2.80	8.99	0.00	8.99
86.00	-2.80	9.07	0.00	9.07
87.00	-2.80	9.15	0.00	9.15
88.00	-2.80	9.23	0.00	9.23
89.00	-2.80	9.31	0.00	9.31
90.00	-2.80	9.39	0.00	9.39
91.00	-2.80	9.47	0.00	9.47
92.00	-2.80	9.55	0.00	9.55
93.00	-2.80	9.63	0.00	9.63
94.00	-2.80	9.71	0.00	9.71
95.00	-2.80	9.79	0.00	9.79
96.00	-2.80	9.87	0.00	9.87
97.00	-2.80	9.95	0.00	9.95
98.00	-2.80	10.03	0.00	10.03
99.00	-2.80	10.11	0.00	10.11
100.00	-2.80	10.19	0.00	10.19

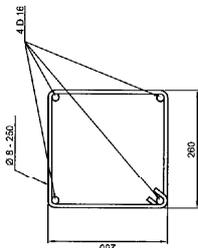


 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	DATE	APPROVED BY	DATE	SHEET NO.
								IF. LOLY HENDRO Project Manager		 Y. M. YUSUI The Engineer		AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT DOWNSTREAM SITE OF MANGGALO BRIDGE TITLE : CROSS SECTION PROFILE OF RIGHT DIKE

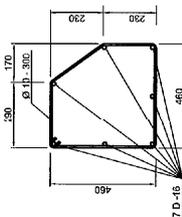




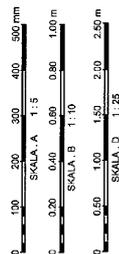
VERTICAL BEAM ( SECTION A - A )  
SCALE 1 : 5



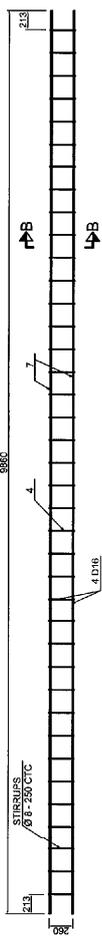
EDGE BEAM ( SECTION B - B )  
SCALE 1 : 5



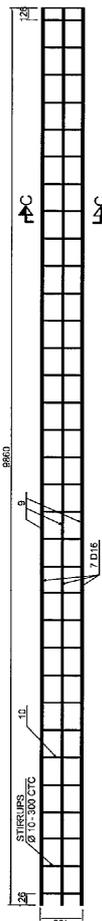
FOOT FOUNDATION ( SECTION C - C )  
SCALE 1 : 10



VERTICAL BEAM ( L = 11.18 m )  
SCALE 1 : 25



EDGE BEAM ( L = 10.00 m )  
SCALE 1 : 25

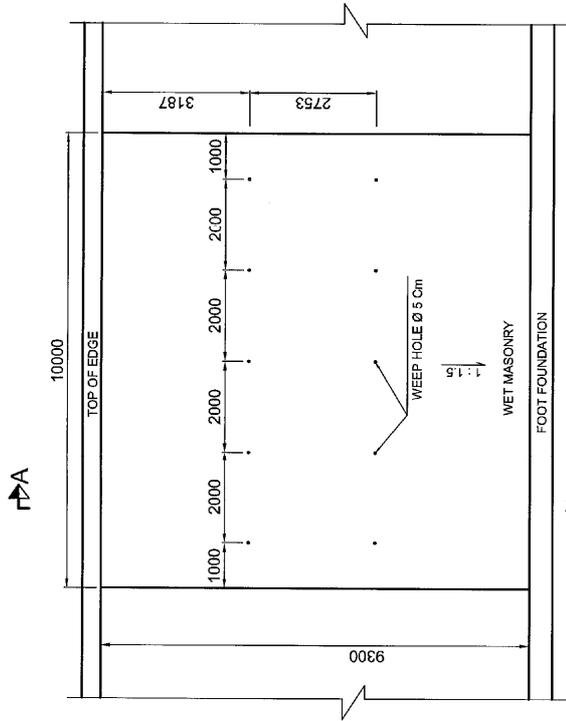


FOOT FOUNDATION ( L = 10.00 m )  
SCALE 1 : 25

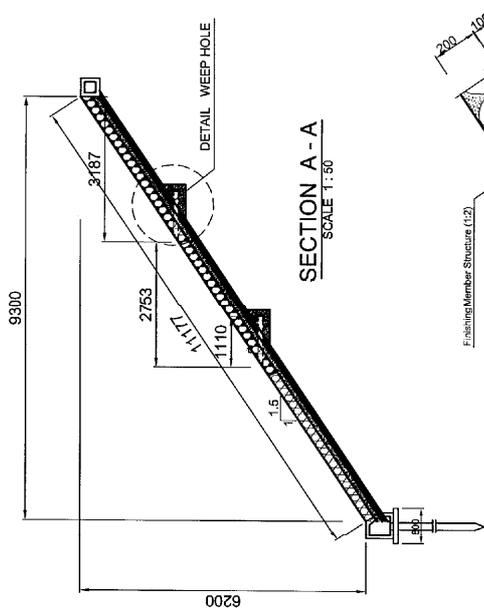
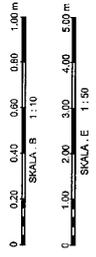
REINFORCEMENT OF BAR

REMARK	DIA (mm)	LENGTH (m)	PCS	TOTAL (Kg)		
VERTICAL BEAM L = 11.18 m	4	Ø 8	0.74	57	0.40	16.87
	5	D 16	11.0	5	1.58	87.75
EDGE BEAM L = 10.00 m	4	Ø 8	1.08	40	0.40	17.28
	7	D 16	9.86	4	1.58	65.32
FOUNDATION L = 10.00 m	10	Ø 10	1.81	33	0.82	37.24
	9	D 16	9.86	7	1.58	100.05

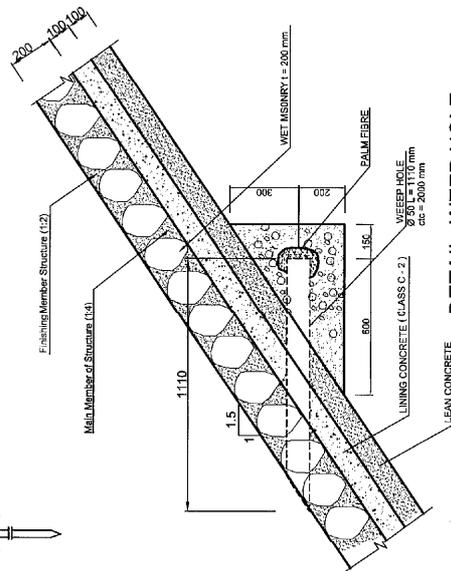
 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE IF. LOLY HENDRO Project Manager	APPROVED BY DATE  Yusui The Engineer	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT DOWNSTREAM SITE OF MANGGALO BRIDGE KR - R2 - SP 1-2 TITLE : DETAIL REBAR OF SLOPE PROTECTION	SHEET NO.
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PLAN OF WEEP HOLE  
SCALE 1 : 80

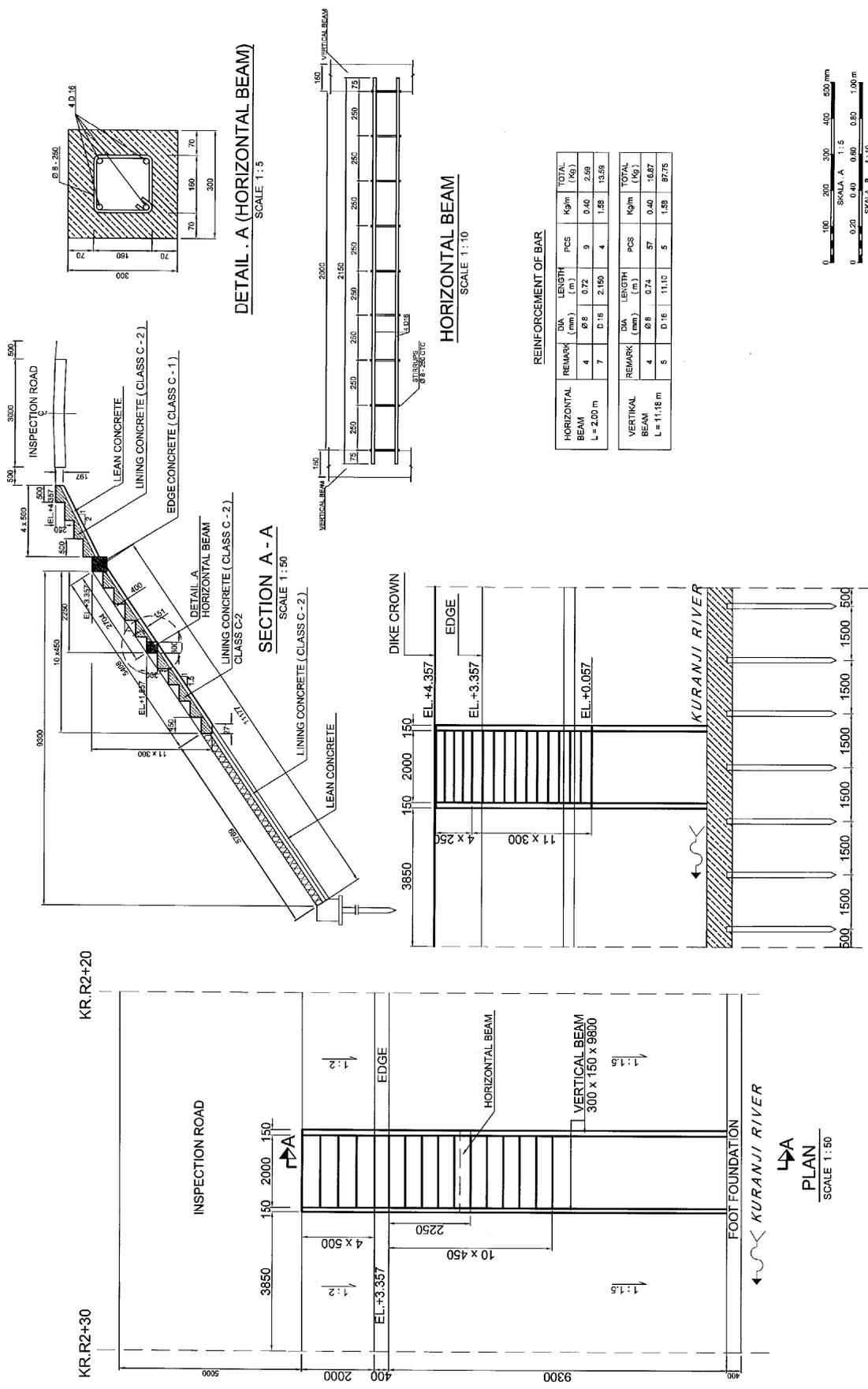


SECTION A - A  
SCALE 1 : 50



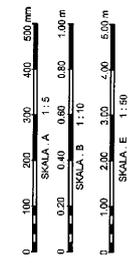
DETAIL WEEP HOLE  
SCALE 1 : 10

REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	SHEET NO.
				DATE	DATE	
				Dr. L. L. HENDRO Project Manager	Yusuf Lusli The Engineer	AS BUILT DRAWINGS
				LOCATION : KUBANI RIVER	NAME OF WORKS : WORKS AT DOWNSTREAM SITE OF MANGALO BRIDGE	
				TITLE : DETAIL WEEP HOLE		KR - R2 - SP 1-3
JICA BWSS-V PT. WASKITA KARYA		Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang				



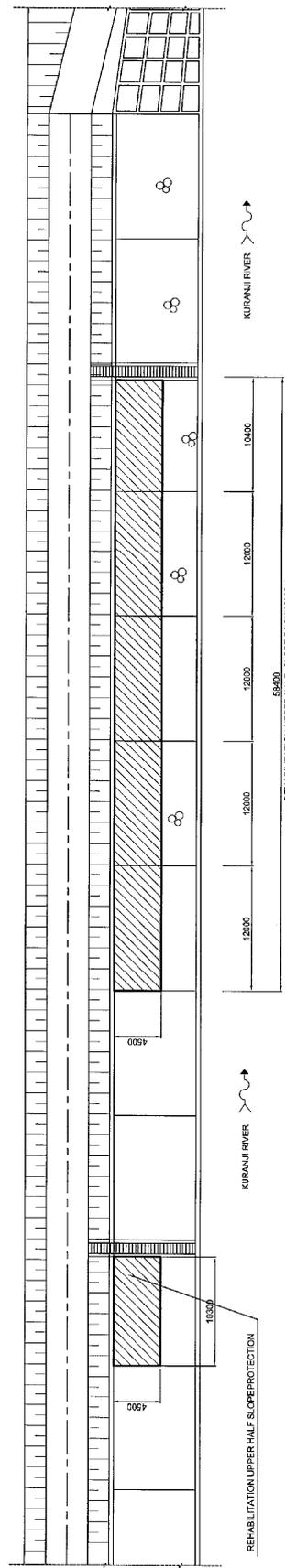
**REINFORCEMENT OF BAR**

HORIZONTAL BEAM	REMARK	DIA (mm)	LENGTH (m)	PCS	TOTAL Kgm (kg)	
L = 20.00 m	4	Ø 8	0.72	9	0.40	
	7	Ø 16	2.150	4	1.58	
	<b>TOTAL</b>					<b>13.58</b>
	<b>VERTICAL BEAM</b>					<b>L = 11.18 m</b>
L = 11.18 m	4	Ø 8	0.74	57	0.40	
	5	Ø 16	11.10	5	1.58	
	<b>TOTAL</b>					<b>16.87</b>
<b>TOTAL</b>					<b>30.45</b>	



 JICA BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV. DATE DESCRIPTION BY	PROPOSED BY DATE	APPROVED BY DATE	AS BUILT DRAWINGS	SHEET NO.
			KR.R2+30	KR.R2+20	I. LOIY HENDRO Project Manager	YOSUDA USUI The Engineer	: KURANJI RIVER



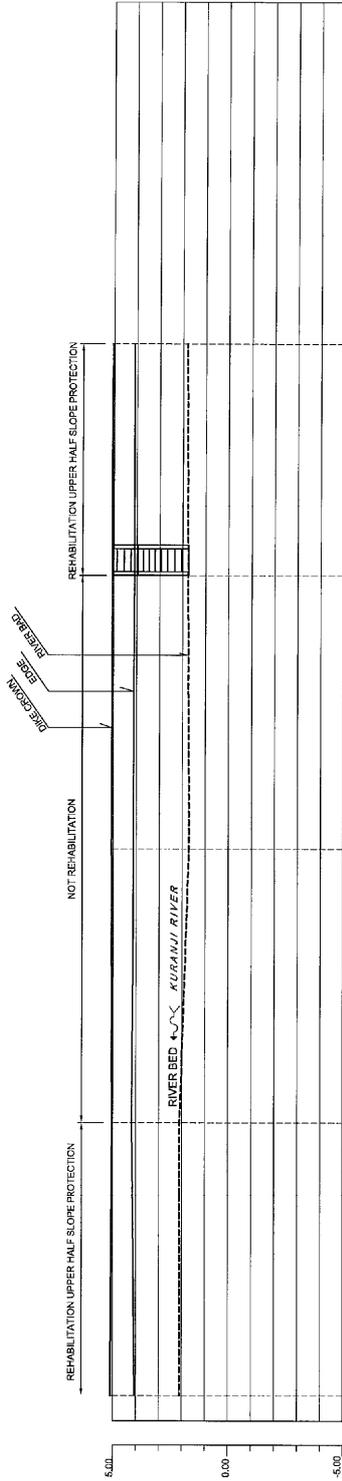


PLAN  
SCALE 1:200



		Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang		AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 1 OF NANGGALO BRIDGE TITLE : PLAN		SHEET NO KR-R3-P-1	
REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE		
				TIKOLY HENDRO Project Manager	YUSEN USJI The Engineer		

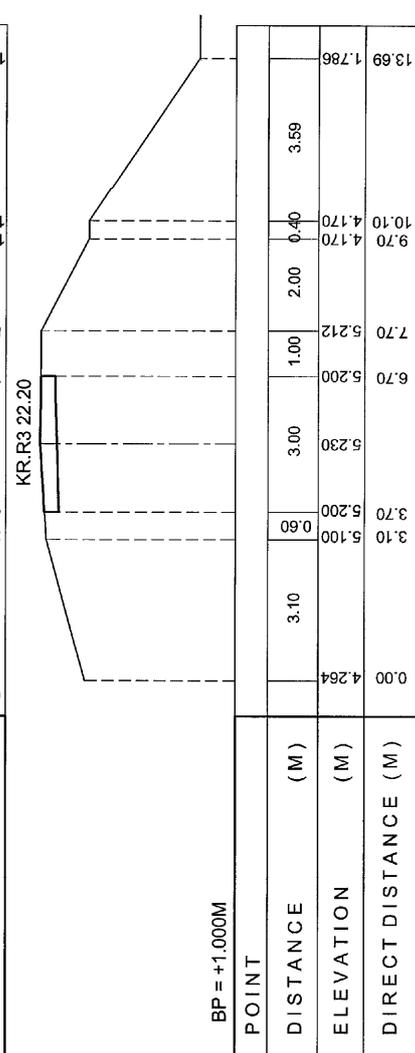
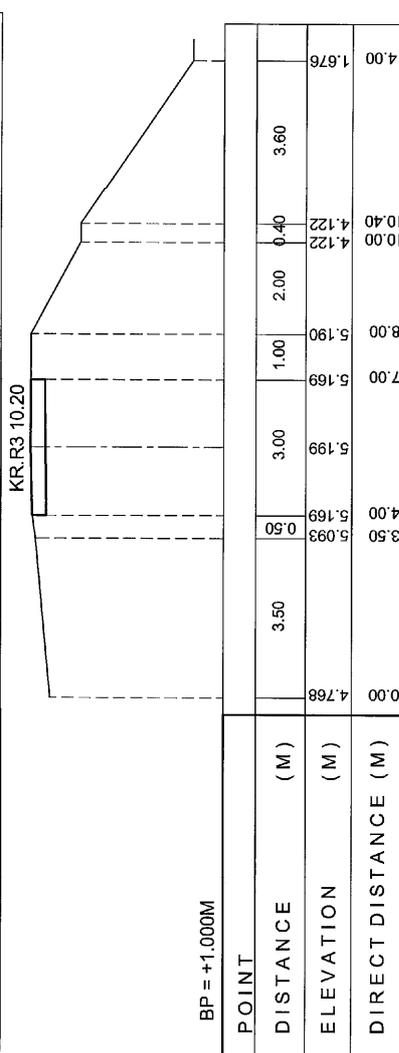
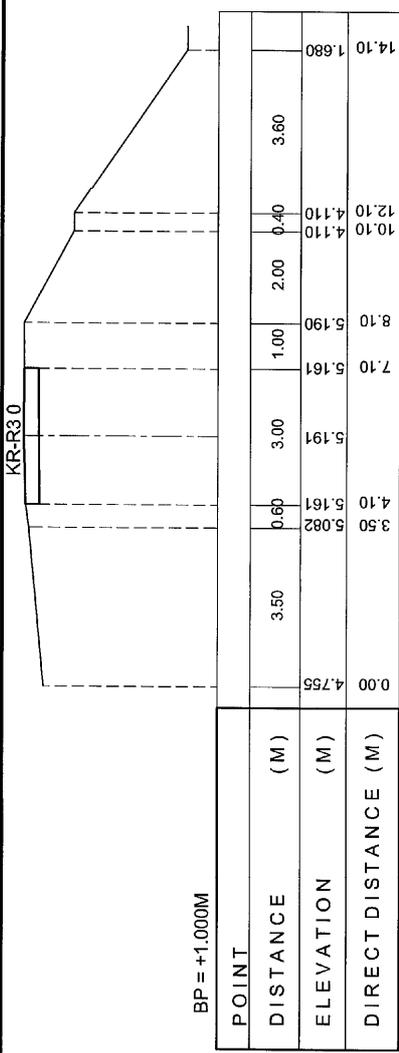




EL OF DIKE CROWN	AS BUILT (M)	SECTION NO.
EDGE	4.887	KR.R3.46.20
RIVER BCD	2.087	
CUMULATIVE	45.46	
BETWEEN TWO SECTION	12.00	
	5.003	KR.R3.22.20
	4.176	
	2.066	
	79.0	
	1.714	KR.R3.10.20
	4.122	
	62.40	
	16.40	
	82.70	KR.R3.0
	4.110	
	5.888	

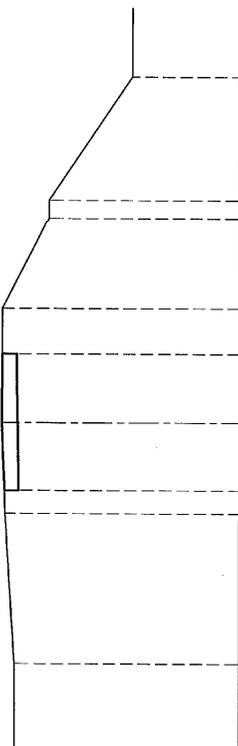


	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang			AS BUILT DRAWINGS LOCATION : KURAUJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 1 OF NANGALO BRIDGE TITLE : LONGITUDINAL PROFILE OF RIGHT DIKE	SHEET NO. KR-R3-LP-12
	REV.	DATE	DESCRIPTION		



 JICA	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	DATE	APPROVED BY	DATE	AS BUILT DRAWINGS	SHEET NO.

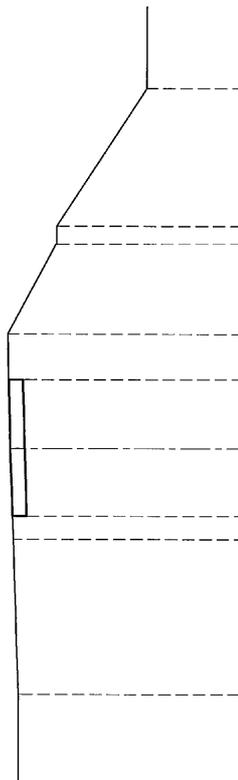
KR.R3 34.20



BP = 0.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
	3.30	5.056	0.00
	0.50	5.103	3.80
	3.00	5.133	5.103
	1.00	5.103	6.80
	2.00	5.124	7.80
	0.40	4.126	8.00
	2.70	2.332	11.10

KR.R3 46.20



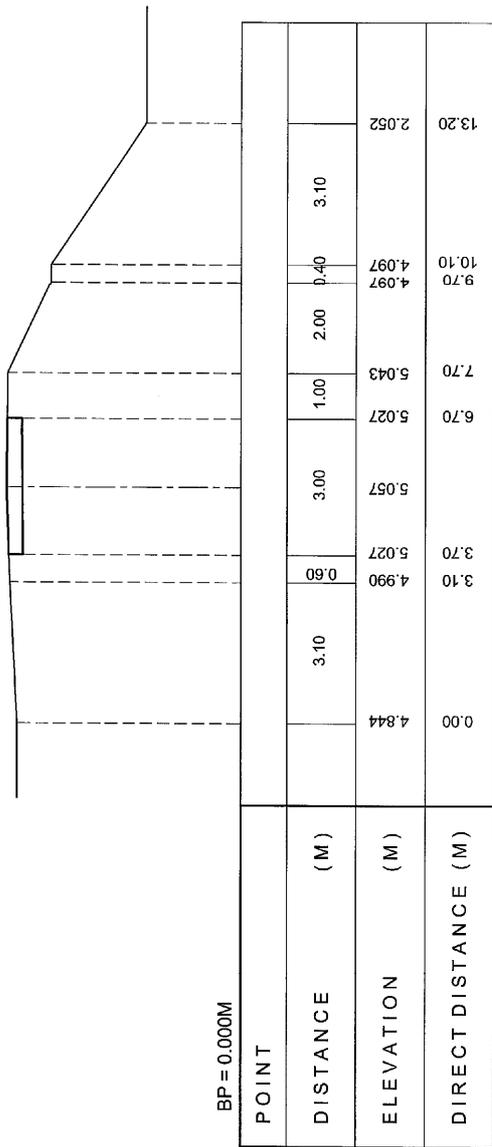
BP = 0.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
	3.40	4.968	0.00
	0.50	5.016	3.40
	3.00	5.046	5.046
	1.00	5.016	6.90
	2.00	5.110	7.90
	0.40	4.052	9.90
	3.01	2.097	13.31

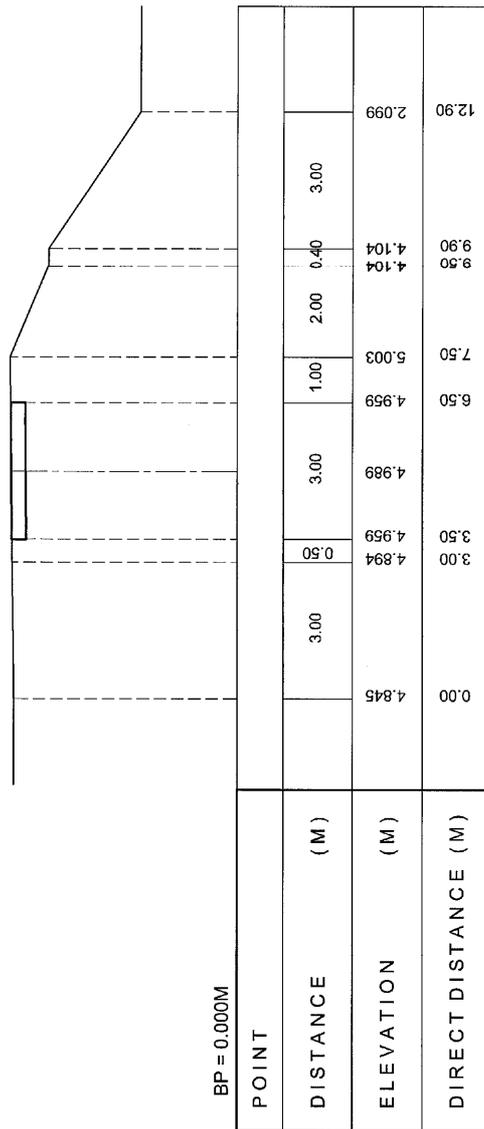


 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE  H. TOHY HENDRO Project Manager	APPROVED BY DATE  YUSUF USUI The Engineer	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 1 OF NANGGALO BRIDGE KR - R3 - CS 1-2 TITLE : CROSS SECTION PROFILE OF LEFT DIKE	SHEET NO.
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KR.R3 58.20

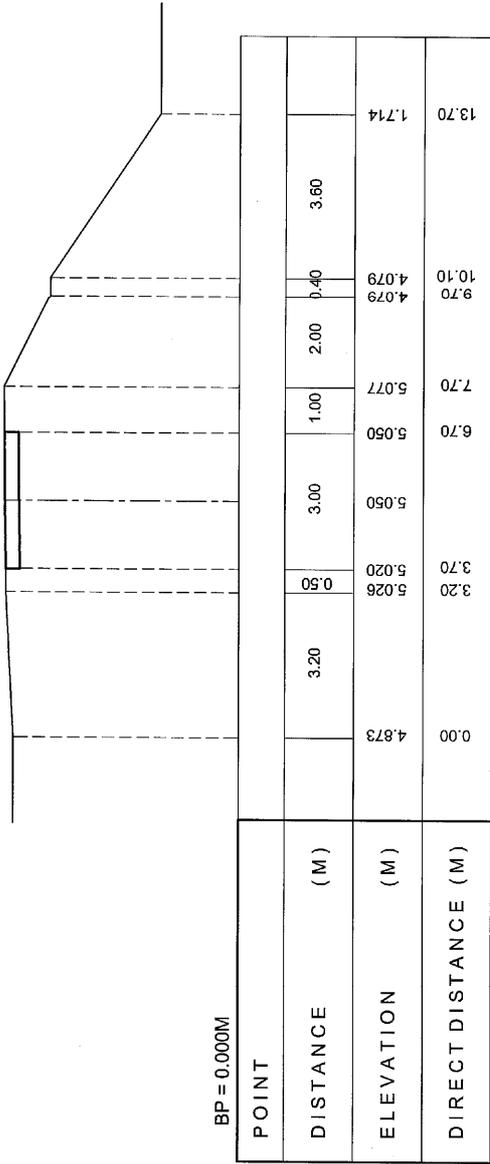


KR.R3 70.20

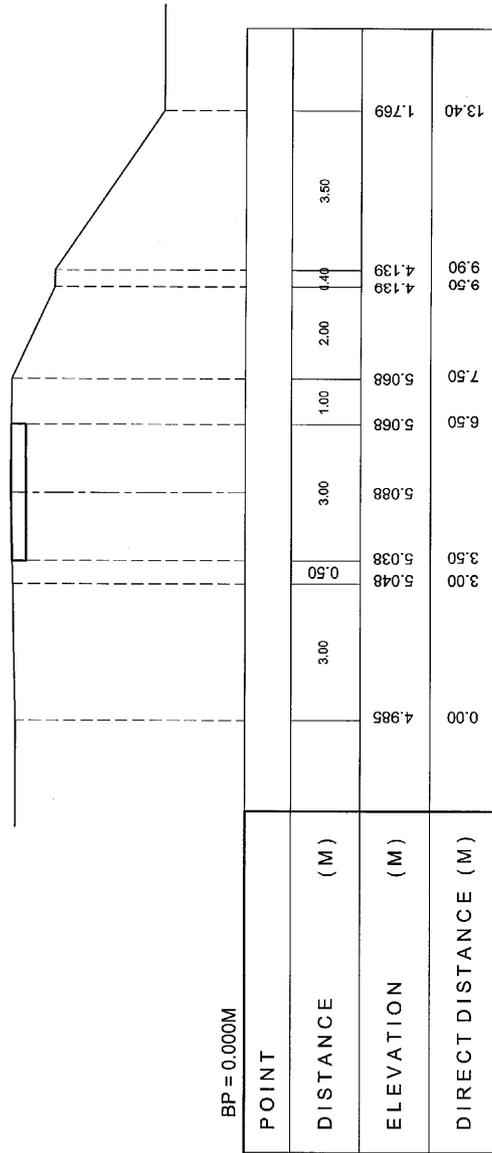


	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	DATE	APPROVED BY	DATE	AS BUILT DRAWINGS	SHEET NO.
						TOTO WENORO Project Manager		YUSUF USUI The Engineer		LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 1 OF MANGGALO BRIDGE TITLE : CROSS SECTION PROFILE OF LEFT DIKE	KR-R3-CS-13

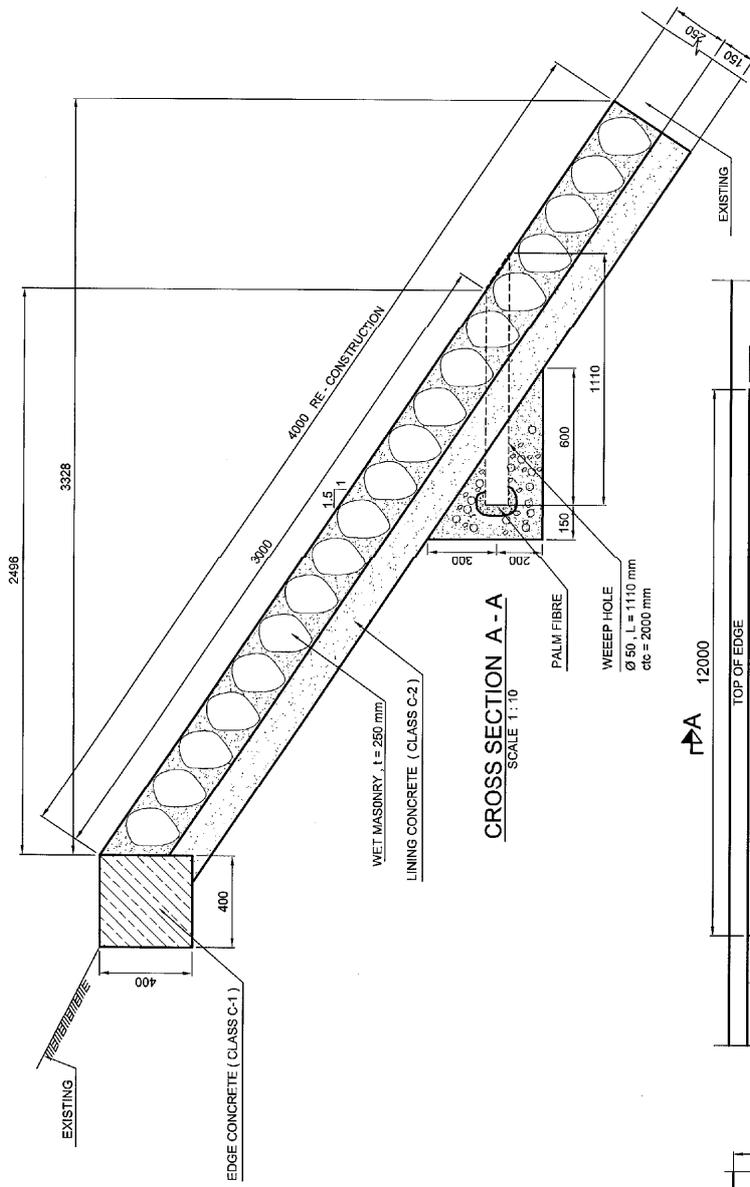
KR.R3 82.20



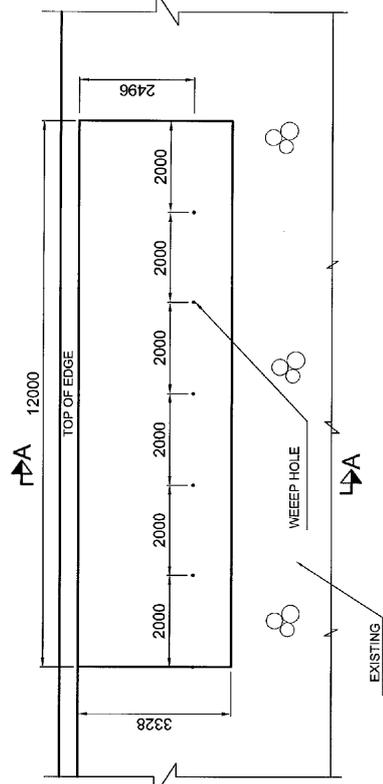
KR.R3 92.60



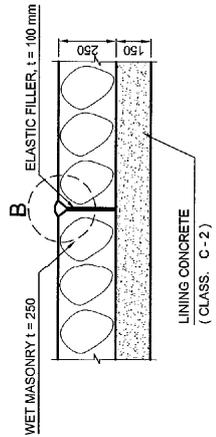
	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 1 OF NANGGALO BRIDGE TITLE : CROSS SECTION PROFILE OF LEFT DIKE	SHEET NO. KR-R3-CS-1-4
		PT. WASKITA KARYA WASKITA		PT. WASKITA KARYA WASKITA		PT. WASKITA KARYA WASKITA		PT. WASKITA KARYA WASKITA	



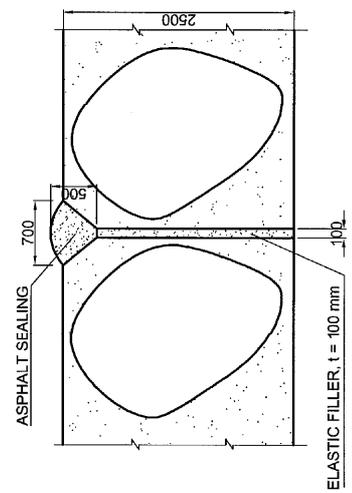
**CROSS SECTION A-A**  
SCALE 1:10



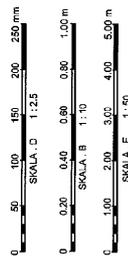
**PLAN OF WEEP HOLE**  
SCALE 1:50



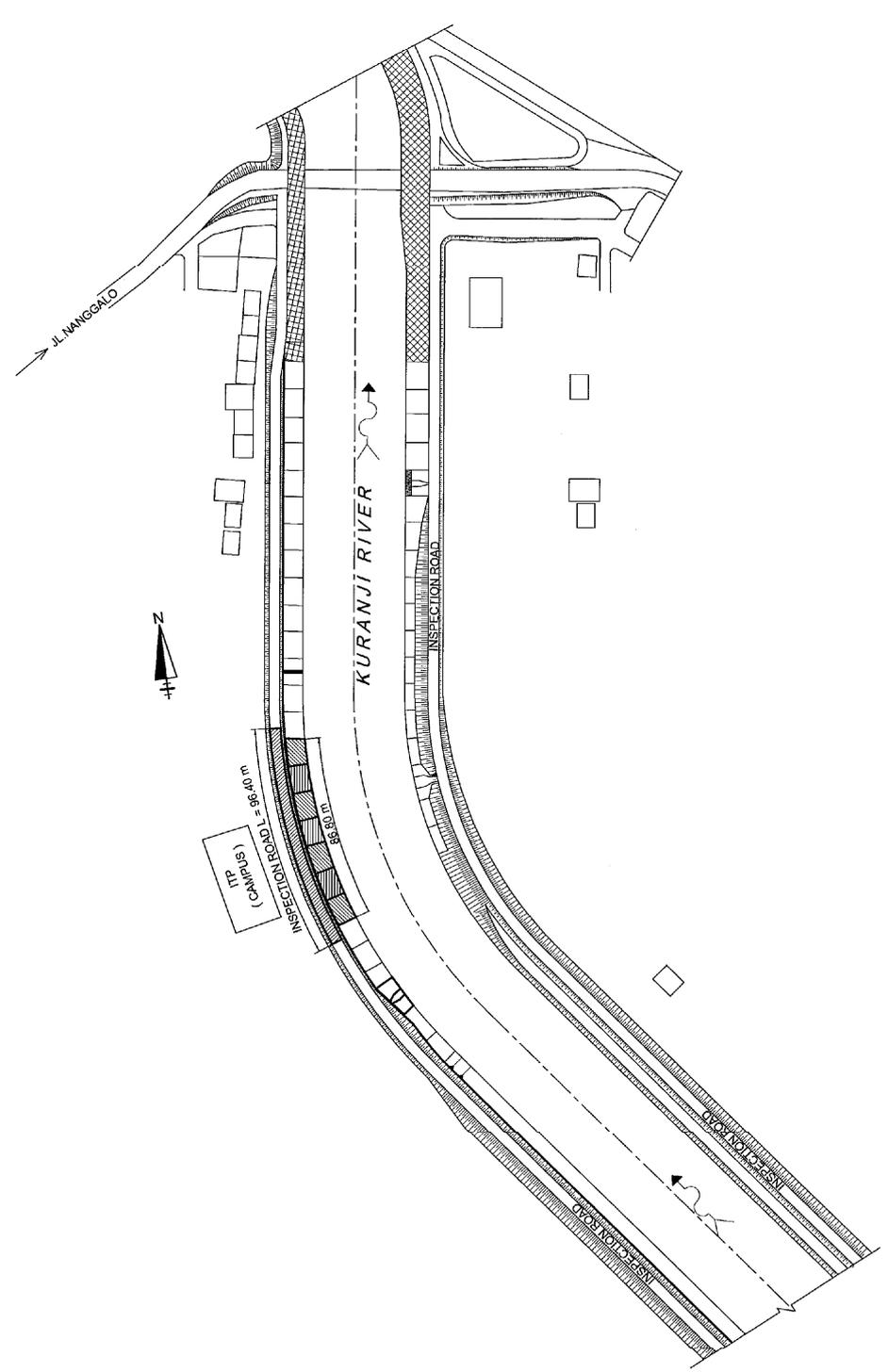
**DETAIL A. OF EXPANSION JOINT**  
SCALE 1:10



**DETAIL. B**  
**DETAIL OF ASPHALT SEALING**  
SCALE 1:2.5



			Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 1 OF NANGGALO BRIDGE TITLE : SLOPE PROTECTION WET MASONRY	SHEET NO. KR-R3-SP-1
								DATE PROJECT Manager The Engineer	DATE The Engineer		

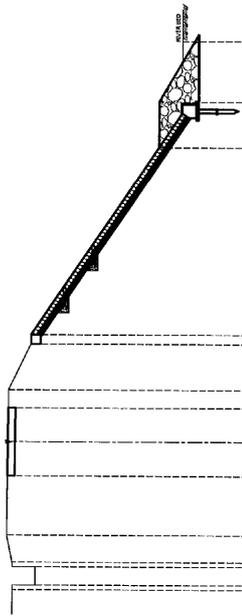


						Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang		REV. DATE DESCRIPTION BY		PROPOSED BY DATE H. LELY HENDRO Project Manager		APPROVED BY DATE YUSUF USUI The Engineer		SHEET NO. KR - R4 - P - 1	
AS BUILT DRAWINGS		LOCATION : KURANJI RIVER		NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF MANGGALO BRIDGE		TITLE : PLAN		AS BUILT DRAWINGS		LOCATION : KURANJI RIVER		NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF MANGGALO BRIDGE		TITLE : PLAN	





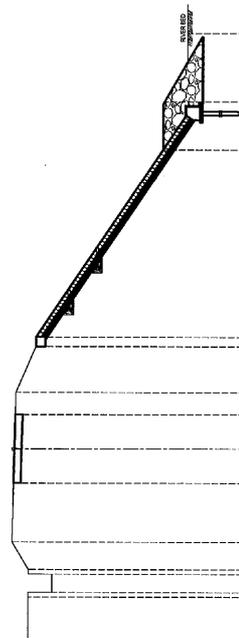
KR-R4.0



BP = 6.000V

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0.00	0.00	5.966	0.00
0.25	0.25	5.973	0.25
1.00	1.00	5.972	1.00
1.25	1.25	5.970	1.25
2.00	2.00	5.958	2.00
5.00	5.00	5.107	5.00
8.00	8.00	5.123	8.00
10.00	10.00	5.136	10.00
12.00	12.00	5.138	12.00
14.00	14.00	5.138	14.00
19.00	19.00	5.056	19.00
21.00	21.00	4.966	21.00
24.15	24.15	4.200	24.15

KR-R4.2.55



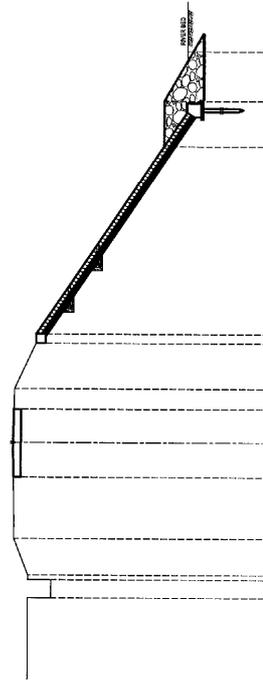
BP = 6.000V

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0.00	0.00	5.955	0.00
1.00	1.00	5.962	1.00
2.00	2.00	5.952	2.00
3.00	3.00	5.101	3.00
5.00	5.00	5.068	5.00
8.00	8.00	5.020	8.00
11.00	11.00	4.789	11.00
14.00	14.00	4.789	14.00
19.00	19.00	4.380	19.00
21.75	21.75	4.360	21.75
24.75	24.75	3.280	24.75



 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang				REV. DATE DESCRIPTION BY _____ _____ _____ _____	PROPOSED BY DATE FLOLY HENDRO Project Manager	APPROVED BY DATE Yusuf FUSUI Project Engineer	AS BUILT DRAWINGS	SHEET NO.
			LOCATION : KURANJI RIVER	NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF MANGGALO BRIDGE	TITLE : CROSS SECTION PROFILE OF LEFT DIKE	KR-R4 - CS 1-1					

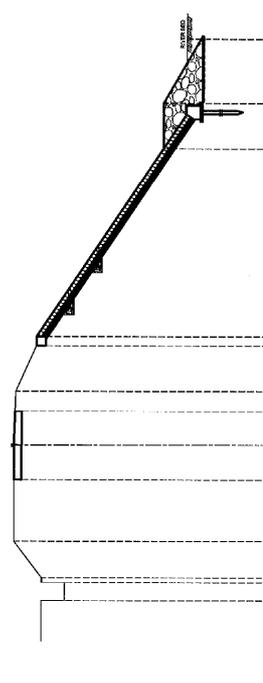
KR-R4.25.40



BP = -6.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0.00	0.00	4.92	0.00
0.50	0.50	4.88	0.50
1.00	1.00	4.83	1.00
1.50	1.50	4.78	1.50
2.00	2.00	4.73	2.00
2.50	2.50	4.68	2.50
3.00	3.00	4.63	3.00
3.50	3.50	4.58	3.50
4.00	4.00	4.53	4.00
4.50	4.50	4.48	4.50
5.00	5.00	4.43	5.00
5.50	5.50	4.38	5.50
6.00	6.00	4.33	6.00
6.50	6.50	4.28	6.50
7.00	7.00	4.23	7.00
7.50	7.50	4.18	7.50
8.00	8.00	4.13	8.00
8.50	8.50	4.08	8.50
9.00	9.00	4.03	9.00
9.50	9.50	3.98	9.50
10.00	10.00	3.93	10.00
10.50	10.50	3.88	10.50
11.00	11.00	3.83	11.00
11.50	11.50	3.78	11.50
12.00	12.00	3.73	12.00
12.50	12.50	3.68	12.50
13.00	13.00	3.63	13.00
13.50	13.50	3.58	13.50
14.00	14.00	3.53	14.00
14.50	14.50	3.48	14.50
15.00	15.00	3.43	15.00
15.50	15.50	3.38	15.50
16.00	16.00	3.33	16.00
16.50	16.50	3.28	16.50
17.00	17.00	3.23	17.00
17.50	17.50	3.18	17.50
18.00	18.00	3.13	18.00
18.50	18.50	3.08	18.50
19.00	19.00	3.03	19.00
19.50	19.50	2.98	19.50
20.00	20.00	2.93	20.00
20.50	20.50	2.88	20.50
21.00	21.00	2.83	21.00
21.50	21.50	2.78	21.50
22.00	22.00	2.73	22.00
22.50	22.50	2.68	22.50
23.00	23.00	2.63	23.00
23.50	23.50	2.58	23.50
24.00	24.00	2.53	24.00
24.50	24.50	2.48	24.50
25.00	25.00	2.43	25.00

KR-R4.35.60



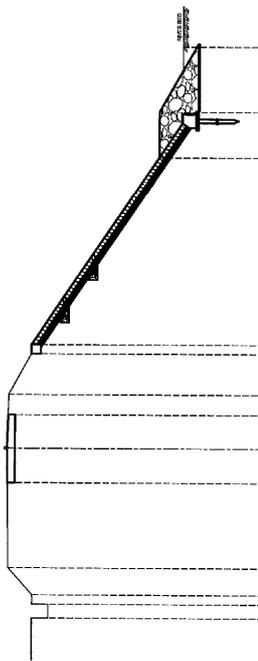
BP = -6.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0.00	0.00	4.63	0.00
0.50	0.50	4.58	0.50
1.00	1.00	4.53	1.00
1.50	1.50	4.48	1.50
2.00	2.00	4.43	2.00
2.50	2.50	4.38	2.50
3.00	3.00	4.33	3.00
3.50	3.50	4.28	3.50
4.00	4.00	4.23	4.00
4.50	4.50	4.18	4.50
5.00	5.00	4.13	5.00
5.50	5.50	4.08	5.50
6.00	6.00	4.03	6.00
6.50	6.50	3.98	6.50
7.00	7.00	3.93	7.00
7.50	7.50	3.88	7.50
8.00	8.00	3.83	8.00
8.50	8.50	3.78	8.50
9.00	9.00	3.73	9.00
9.50	9.50	3.68	9.50
10.00	10.00	3.63	10.00
10.50	10.50	3.58	10.50
11.00	11.00	3.53	11.00
11.50	11.50	3.48	11.50
12.00	12.00	3.43	12.00
12.50	12.50	3.38	12.50
13.00	13.00	3.33	13.00
13.50	13.50	3.28	13.50
14.00	14.00	3.23	14.00
14.50	14.50	3.18	14.50
15.00	15.00	3.13	15.00
15.50	15.50	3.08	15.50
16.00	16.00	3.03	16.00
16.50	16.50	2.98	16.50
17.00	17.00	2.93	17.00
17.50	17.50	2.88	17.50
18.00	18.00	2.83	18.00
18.50	18.50	2.78	18.50
19.00	19.00	2.73	19.00
19.50	19.50	2.68	19.50
20.00	20.00	2.63	20.00
20.50	20.50	2.58	20.50
21.00	21.00	2.53	21.00
21.50	21.50	2.48	21.50
22.00	22.00	2.43	22.00
22.50	22.50	2.38	22.50
23.00	23.00	2.33	23.00
23.50	23.50	2.28	23.50
24.00	24.00	2.23	24.00
24.50	24.50	2.18	24.50
25.00	25.00	2.13	25.00



 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE  T. LOUY HENDRO Project Manager	APPROVED BY DATE  Yusaku Kusui JIS Engineer	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF MANGGALO BRIDGE TITLE : CROSS SECTION PROFILE OF LEFT DIKE	SHEET NO. KR-R4-CS 1-2
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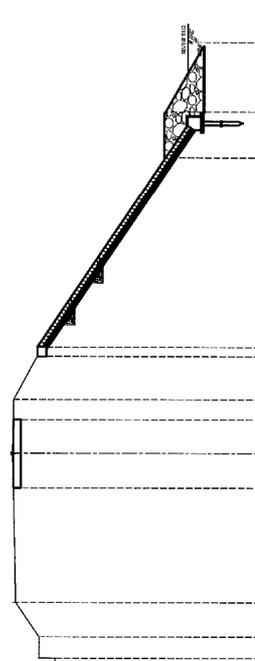
KR-PM 48.20



BP = 6.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0+00	0.00	5.15	0.00
0+10	1.00	5.15	1.00
0+20	2.00	5.15	2.00
0+30	3.00	5.15	3.00
0+40	4.00	5.15	4.00
0+50	5.00	5.15	5.00
0+60	6.00	5.15	6.00
0+70	7.00	5.15	7.00
0+80	8.00	5.15	8.00
0+90	9.00	5.15	9.00
0+100	10.00	5.15	10.00
0+110	11.00	5.15	11.00
0+120	12.00	5.15	12.00
0+130	13.00	5.15	13.00
0+140	14.00	5.15	14.00
0+150	15.00	5.15	15.00
0+160	16.00	5.15	16.00
0+170	17.00	5.15	17.00
0+180	18.00	5.15	18.00
0+190	19.00	5.15	19.00
0+200	20.00	5.15	20.00

KR-PM 60



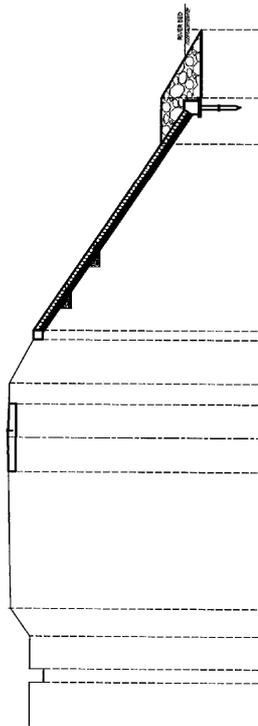
BP = 6.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
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0+10	1.00	5.15	1.00
0+20	2.00	5.15	2.00
0+30	3.00	5.15	3.00
0+40	4.00	5.15	4.00
0+50	5.00	5.15	5.00
0+60	6.00	5.15	6.00
0+70	7.00	5.15	7.00
0+80	8.00	5.15	8.00
0+90	9.00	5.15	9.00
0+100	10.00	5.15	10.00
0+110	11.00	5.15	11.00
0+120	12.00	5.15	12.00
0+130	13.00	5.15	13.00
0+140	14.00	5.15	14.00
0+150	15.00	5.15	15.00
0+160	16.00	5.15	16.00
0+170	17.00	5.15	17.00
0+180	18.00	5.15	18.00
0+190	19.00	5.15	19.00
0+200	20.00	5.15	20.00



 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE I. LOIY HENDRO Project Manager	APPROVED BY DATE  Yusel Husni IAG Engineer	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF MANGGALO BRIDGE TITLE : CROSS SECTION PROFILE OF LEFT DIKE	SHEET NO. KR - PM - CS 1-8
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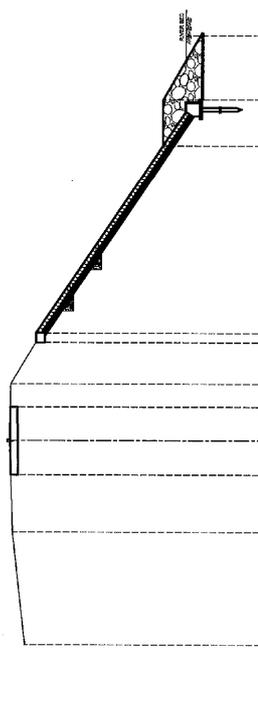
KR-R47L06



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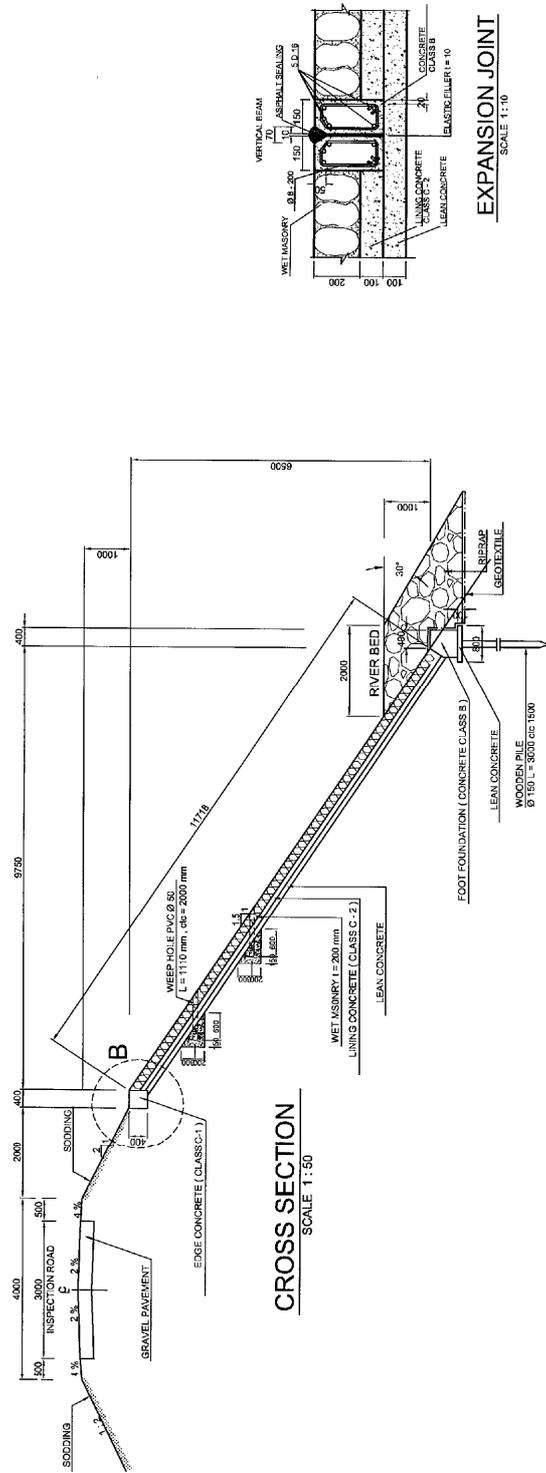
POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
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1.00	1.50	4.099	3.90
2.00	3.00	5.075	5.90
3.00	4.50	5.183	7.90
4.00	6.00	5.058	9.90
5.00	7.50	4.083	11.90
6.00	9.00	2.455	13.90
7.00	10.50	1.455	15.90
8.00	12.00	1.455	17.90
9.00	13.50	1.455	19.90
10.00	15.00	1.455	21.90
11.00	16.50	1.455	23.90
12.00	18.00	1.455	25.90
13.00	19.50	1.455	27.90
14.00	21.00	1.455	29.90
15.00	22.50	1.455	31.90
16.00	24.00	1.455	33.90
17.00	25.50	1.455	35.90
18.00	27.00	1.455	37.90
19.00	28.50	1.455	39.90
20.00	30.00	1.455	41.90
21.00	31.50	1.455	43.90
22.00	33.00	1.455	45.90
23.00	34.50	1.455	47.90
24.00	36.00	1.455	49.90
25.00	37.50	1.455	51.90
26.00	39.00	1.455	53.90
27.00	40.50	1.455	55.90
28.00	42.00	1.455	57.90
29.00	43.50	1.455	59.90
30.00	45.00	1.455	61.90
31.00	46.50	1.455	63.90
32.00	48.00	1.455	65.90
33.00	49.50	1.455	67.90
34.00	51.00	1.455	69.90
35.00	52.50	1.455	71.90
36.00	54.00	1.455	73.90
37.00	55.50	1.455	75.90
38.00	57.00	1.455	77.90
39.00	58.50	1.455	79.90
40.00	60.00	1.455	81.90
41.00	61.50	1.455	83.90
42.00	63.00	1.455	85.90
43.00	64.50	1.455	87.90
44.00	66.00	1.455	89.90
45.00	67.50	1.455	91.90
46.00	69.00	1.455	93.90
47.00	70.50	1.455	95.90
48.00	72.00	1.455	97.90
49.00	73.50	1.455	99.90
50.00	75.00	1.455	101.90
51.00	76.50	1.455	103.90
52.00	78.00	1.455	105.90
53.00	79.50	1.455	107.90
54.00	81.00	1.455	109.90
55.00	82.50	1.455	111.90
56.00	84.00	1.455	113.90
57.00	85.50	1.455	115.90
58.00	87.00	1.455	117.90
59.00	88.50	1.455	119.90
60.00	90.00	1.455	121.90
61.00	91.50	1.455	123.90
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63.00	94.50	1.455	127.90
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66.00	99.00	1.455	133.90
67.00	100.50	1.455	135.90
68.00	102.00	1.455	137.90
69.00	103.50	1.455	139.90
70.00	105.00	1.455	141.90
71.00	106.50	1.455	143.90
72.00	108.00	1.455	145.90
73.00	109.50	1.455	147.90
74.00	111.00	1.455	149.90
75.00	112.50	1.455	151.90
76.00	114.00	1.455	153.90
77.00	115.50	1.455	155.90
78.00	117.00	1.455	157.90
79.00	118.50	1.455	159.90
80.00	120.00	1.455	161.90
81.00	121.50	1.455	163.90
82.00	123.00	1.455	165.90
83.00	124.50	1.455	167.90
84.00	126.00	1.455	169.90
85.00	127.50	1.455	171.90
86.00	129.00	1.455	173.90
87.00	130.50	1.455	175.90
88.00	132.00	1.455	177.90
89.00	133.50	1.455	179.90
90.00	135.00	1.455	181.90
91.00	136.50	1.455	183.90
92.00	138.00	1.455	185.90
93.00	139.50	1.455	187.90
94.00	141.00	1.455	189.90
95.00	142.50	1.455	191.90
96.00	144.00	1.455	193.90
97.00	145.50	1.455	195.90
98.00	147.00	1.455	197.90
99.00	148.50	1.455	199.90
100.00	150.00	1.455	201.90
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102.00	153.00	1.455	205.90
103.00	154.50	1.455	207.90
104.00	156.00	1.455	209.90
105.00	157.50	1.455	211.90
106.00	159.00	1.455	213.90
107.00	160.50	1.455	215.90
108.00	162.00	1.455	217.90
109.00	163.50	1.455	219.90
110.00	165.00	1.455	221.90
111.00	166.50	1.455	223.90
112.00	168.00	1.455	225.90
113.00	169.50	1.455	227.90
114.00	171.00	1.455	229.90
115.00	172.50	1.455	231.90
116.00	174.00	1.455	233.90
117.00	175.50	1.455	235.90
118.00	177.00	1.455	237.90
119.00	178.50	1.455	239.90
120.00	180.00	1.455	241.90
121.00	181.50	1.455	243.90
122.00	183.00	1.455	245.90
123.00	184.50	1.455	247.90
124.00	186.00	1.455	249.90
125.00	187.50	1.455	251.90
126.00	189.00	1.455	253.90
127.00	190.50	1.455	255.90
128.00	192.00	1.455	257.90
129.00	193.50	1.455	259.90
130.00	195.00	1.455	261.90
131.00	196.50	1.455	263.90
132.00	198.00	1.455	265.90
133.00	199.50	1.455	267.90
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141.00	211.50	1.455	283.90
142.00	213.00	1.455	285.90
143.00	214.50	1.455	287.90
144.00	216.00	1.455	289.90
145.00	217.50	1.455	291.90
146.00	219.00	1.455	293.90
147.00	220.50	1.455	295.90
148.00	222.00	1.455	297.90
149.00	223.50	1.455	299.90
150.00	225.00	1.455	301.90
151.00	226.50	1.455	303.90
152.00	228.00	1.455	305.90
153.00	229.50	1.455	307.90
154.00	231.00	1.455	309.90
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157.00	235.50	1.455	315.90
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162.00	243.00	1.455	325.90
163.00	244.50	1.455	327.90
164.00	246.00	1.455	329.90
165.00	247.50	1.455	331.90
166.00	249.00	1.455	333.90
167.00	250.50	1.455	335.90
168.00	252.00	1.455	337.90
169.00	253.50	1.455	339.90
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174.00	261.00	1.455	349.90
175.00	262.50	1.455	351.90
176.00	264.00	1.455	353.90
177.00	265.50	1.455	355.90
178.00	267.00	1.455	357.90
179.00	268.50	1.455	359.90
180.00	270.00	1.455	361.90
181.00	271.50	1.455	363.90
182.00	273.00	1.455	365.90
183.00	274.50	1.455	367.90
184.00	276.00	1.455	369.90
185.00	277.50	1.455	371.90
186.00	279.00	1.455	373.90
187.00	280.50	1.455	375.90
188.00	282.00	1.455	377.90
189.00	283.50	1.455	379.90
190.00	285.00	1.455	381.90
191.00	286.50	1.455	383.90
192.00	288.00	1.455	385.90
193.00	289.50	1.455	387.90
194.00	291.00	1.455	389.90
195.00	292.50	1.455	391.90
196.00	294.00	1.455	393.90
197.00	295.50	1.455	395.90
198.00	297.00	1.455	397.90
199.00	298.50	1.455	399.90
200.00	300.00	1.455	401.90

KR-R48E00

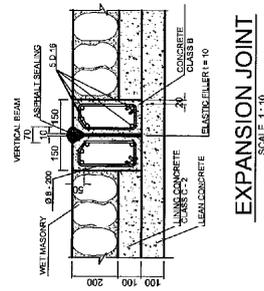


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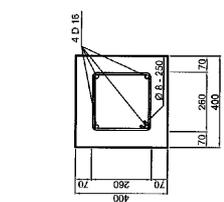
POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0.00	0.00	4.188	0.00
0.50	1.00	4.172	2.30
1.00	1.50	4.099	3.90
2.00	3.00	5.075	5.90
3.00	4.50	5.183	7.90
4.00	6.00	5.058	9.90
5.00	7.50	4.083	11.90
6.00	9.00	2.455	13.90
7.00	10.50	1.455	15.90
8.00	12.00	1.455	17.90
9.00	13.50	1.455	19.90
10.00	15.00	1.455	21.90
11.00	16.50	1.455	23.90
12.00	18.00	1.455	25.90
13.00	19.50	1.455	27.90
14.00	21.00	1.455	29.90
15.00	22.50	1.455	31.90
16.00	24.00	1.455	33.90
17.00	25.50	1.455	35.90
18.00	27.00	1.455	37.90
19.00	28.50	1.455	39.90
20.00	30.00	1.455	41.90
21.00	31.50	1.455	43.90
22.00	33.00	1.455	45.90
23.00	34.50	1.455	47.90
24.00	36.00	1.455	49.90
25.00	37.50	1.455	51.90
26.00	39.00	1.455	53.90
27.00	40.50	1.455	55.90
28.00	42.00	1.455	57.90
29.00	43.50	1.455	59.90
30.00	45.00	1.455	61.90
31.00	46.50	1.455	63.90
32.00	48.00	1.455	65.90
33.00	49.50	1.455	67.90
34.00	51.00	1.455	69.90
35.00	52.50	1.455	71.90
36.00	54.00	1.455	73.90
37.00	55.50	1.455	75.90
38.00	57.00	1.455	77.90
39.00	58.50	1.455	79.90
40.00	60.00	1.455	81.90
41.00	61.50	1.455	83.90
42.00	63.00	1.455	85.90
43.00	64.50	1.455	87.90
44.00	66.00	1.455	89.90
45.00	67.50	1.455	91.90
46.00	69.00	1.455	93.90
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49.00	73.50	1.	



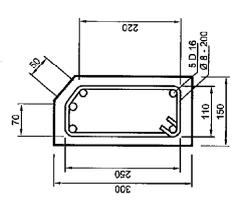
**CROSS SECTION**  
SCALE 1:50



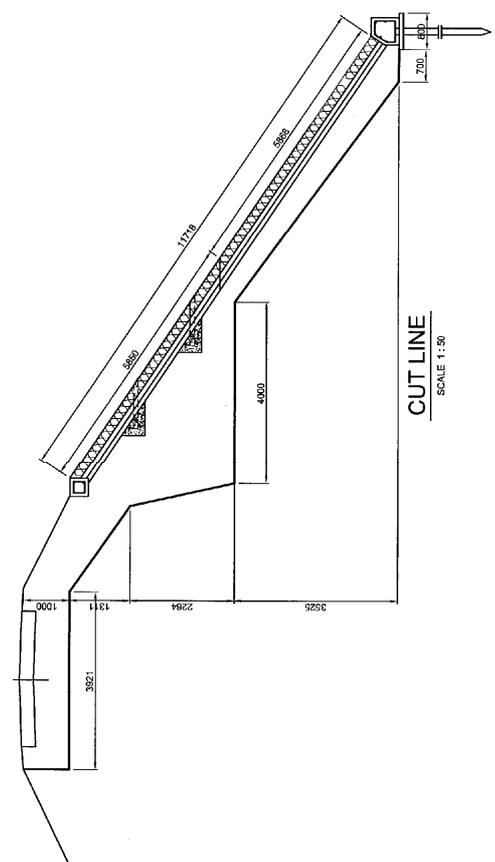
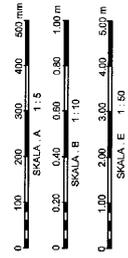
**EXPANSION JOINT**  
SCALE 1:10



**DETAIL B (EDGE BEAM)**  
SCALE 1:10

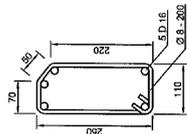


**VERTICAL BEAM**  
SCALE 1:5

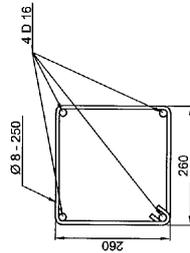


**CUT LINE**  
SCALE 1:50

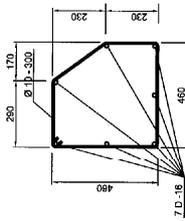
				Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang		AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF NANGGALO BRIDGE KR - RA - SP 1-1 TITLE : SLOPE PROTECTION WET MASONRY		SHEET NO.	
REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	 YUSAKU USUI The Engineer		I. LOUY HENDRO Project Manager	



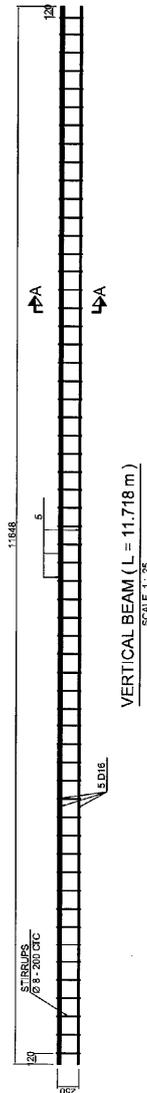
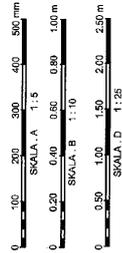
VERTICAL BEAM ( SECTION A - A )  
SCALE 1 : 5



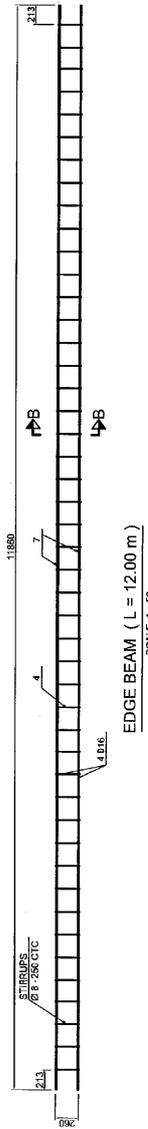
EDGE BEAM ( SECTION B - B )  
SCALE 1 : 5



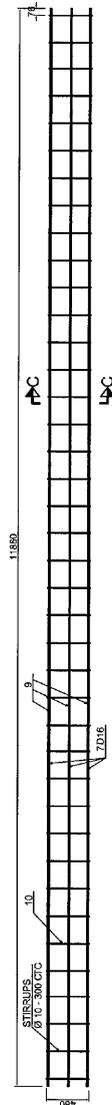
FOOT FOUNDATION ( SECTION C - C )  
SCALE 1 : 10



VERTICAL BEAM ( L = 11.718 m )  
SCALE 1 : 25



EDGE BEAM ( L = 12.00 m )  
SCALE 1 : 50

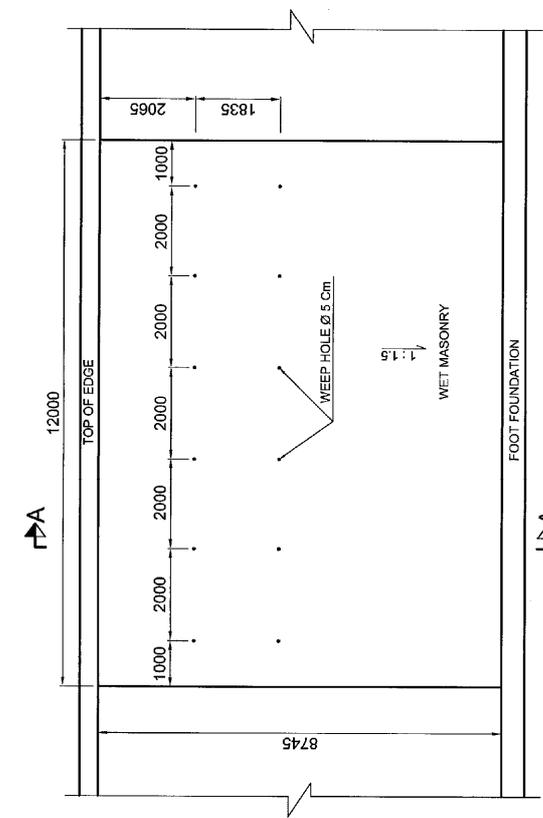


FOOT FOUNDATION ( L = 12.00 m )  
SCALE 1 : 25

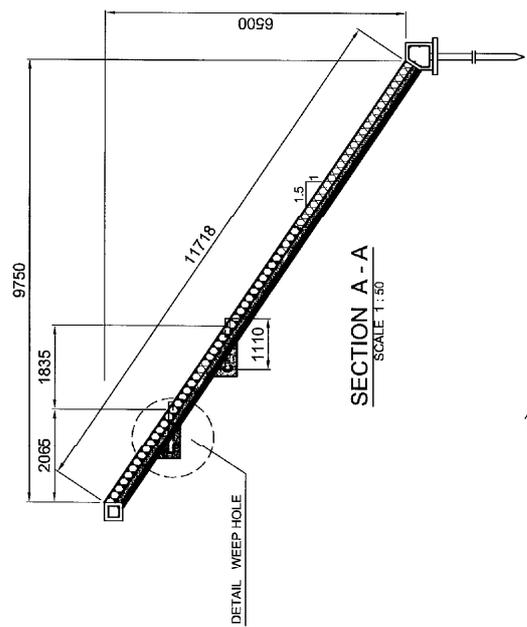
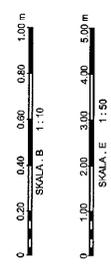
REINFORCEMENT OF BAR

REMARK	DIA (mm)	LENGTH (m)	PCS	TOTAL (kg)
VERTICAL BEAM L = 11.718 m	Ø 8	0.78	59	18.41
	D 16	11.65	5	92.02
EDGE BEAM L = 12.00 m	Ø 8	1.12	48	21.50
	D 16	11.36	4	74.96
FOUNDATION L = 12.00 m	Ø 10	1.82	41	48.28
	D 16	11.96	7	131.17

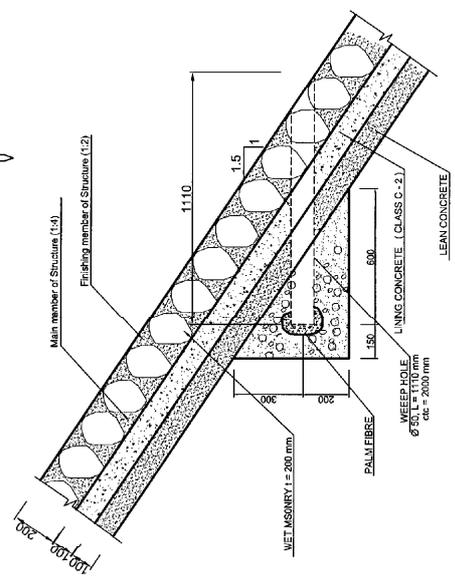
			Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF NANGGALO BRIDGE KR - R4 - SP - 1/2 TITLE : DETAIL REBAR OF SLOPE PROTECTION	SHEET NO. 75
REV.    DATE    DESCRIPTION    BY			PROPOSED BY DATE  PROJECT MANAGER Project Manager	APPROVED BY DATE  THE ENGINEER	



PLAN OF WEEP HOLE  
SCALE 1:50



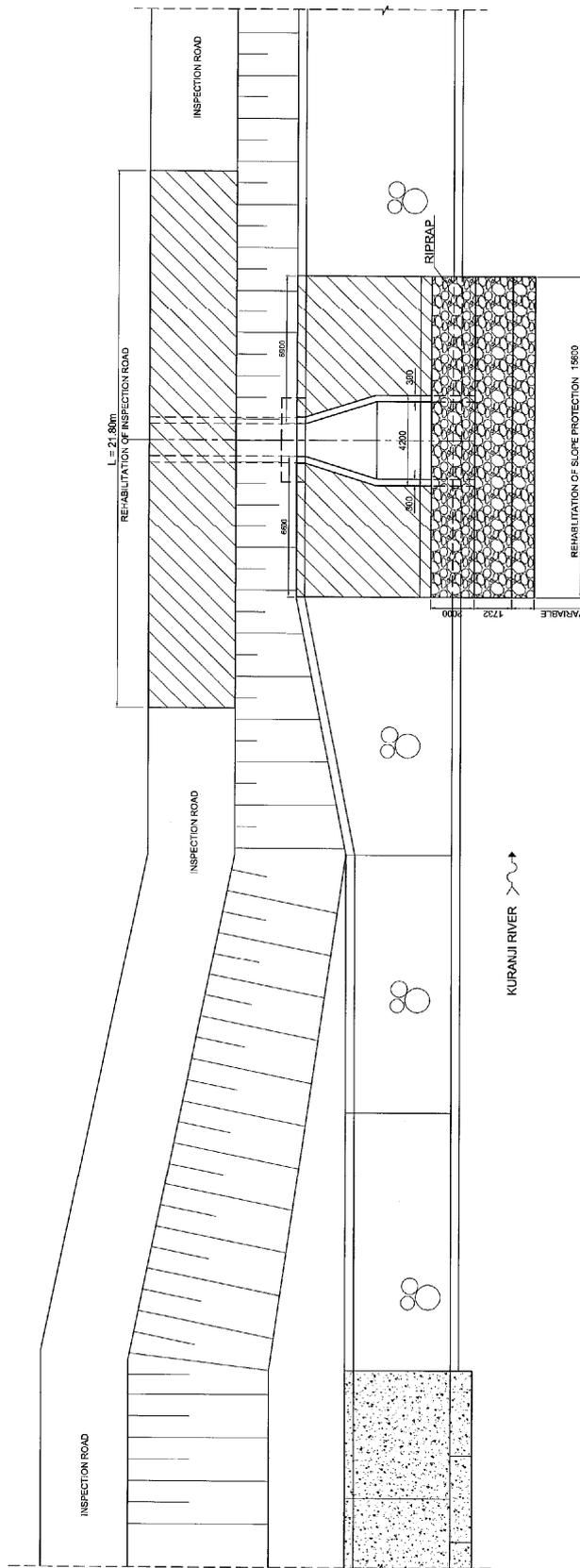
SECTION A - A  
SCALE 1:50



DETAIL WEEP HOLE  
SCALE 1:10

REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	AS BUILT DRAWINGS : KURANJI RIVER	SHEET NO.
							76
Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang							LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF NANGGALO BRIDGE TITLE : DETAIL WEEP HOLE



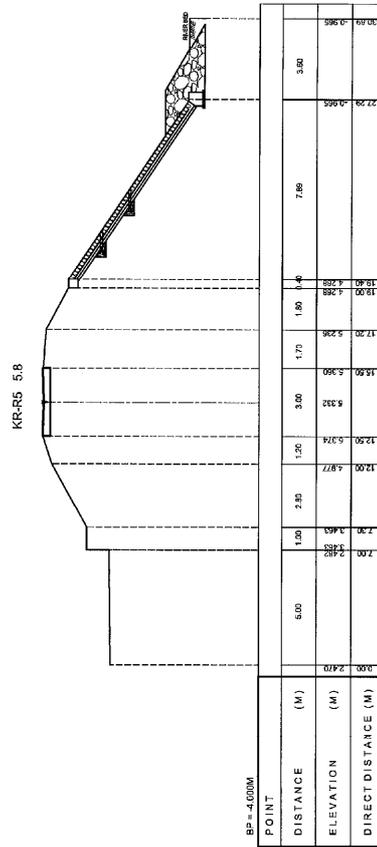
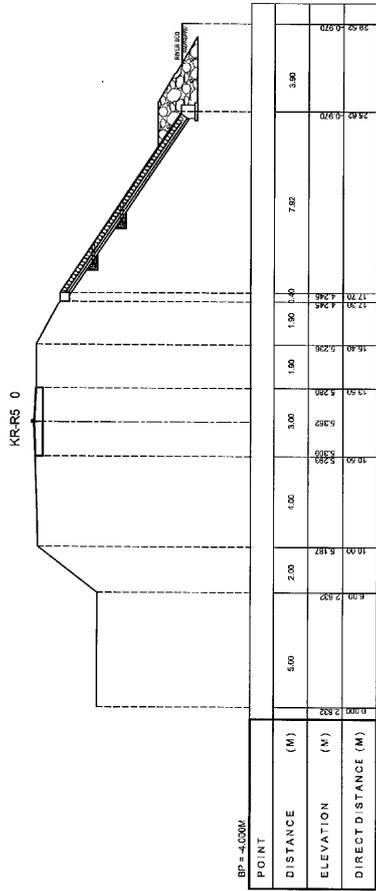


PLAN  
SCALE 1:100



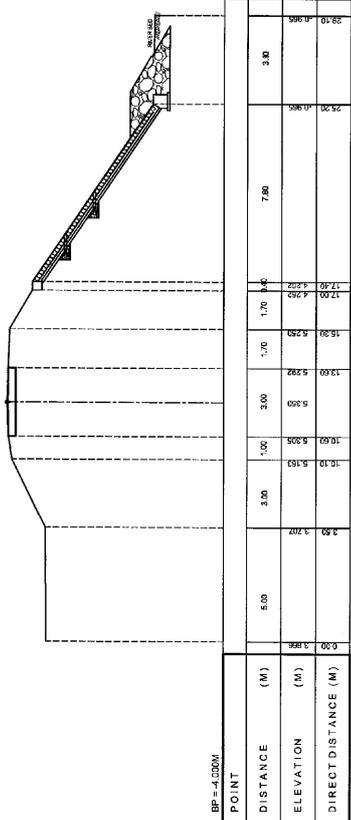
JICA BWSS-V PT. WASKITA KARYA		Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang		REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE T. LOYU BENDIKO Project Manager	APPROVED BY DATE  Yusel Jusri The Engineer	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 3 OF MANGGALO BRIDGE TITLE : PLAN	SHEET NO. KR - R5 - P - 1
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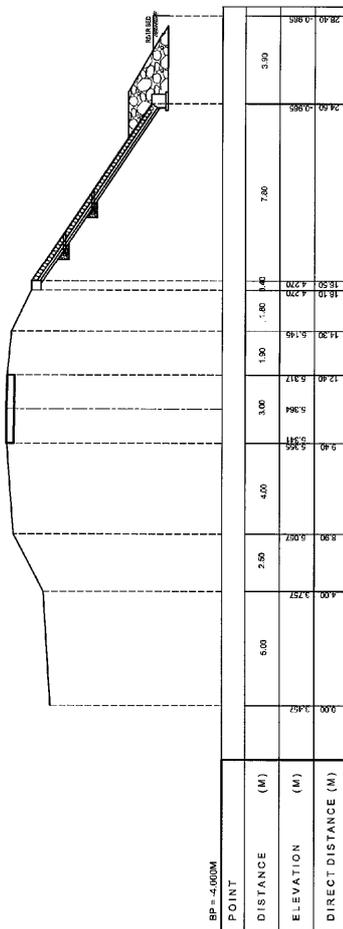


JICA BWSS-V WASKITA KARYA PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	DATE	APPROVED BY	DATE	SHEET NO.
AS BUILT DRAWINGS LOCATION : KURANJ RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 3 OF MANGGALO BRIDGE TITLE : CROSS SECTION PROFILE OF LEFT DIKE										KR - RS - CS 1-1

KRR-R5 10.30

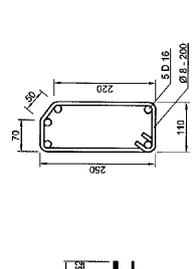


KRR-R5 15.80

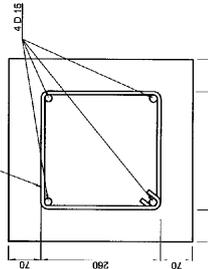


 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	SHEET NO.
								DATE	DATE	DATE
								AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 3 OF NANGGALO BRIDGE TITLE : CROSS SECTION PROFILE OF LEFT DIKE		KR - RS - CS 1-2

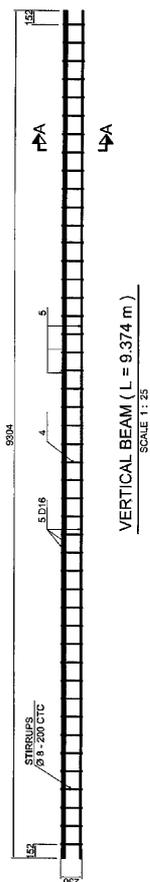




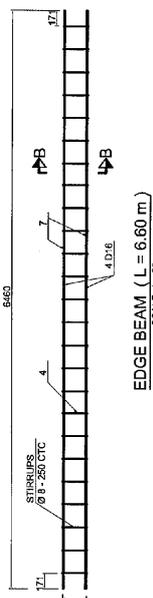
VERTICAL BEAM (SECTION A - A)  
SCALE 1 : 5



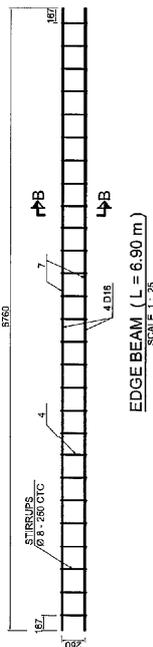
EDGE BEAM (SECTION B - B)  
SCALE 1 : 5



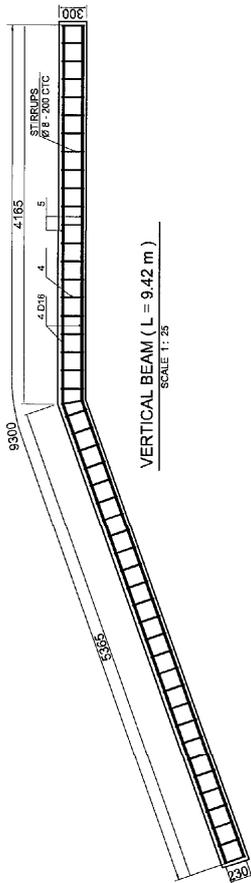
VERTICAL BEAM (L = 9.374 m)  
SCALE 1 : 25



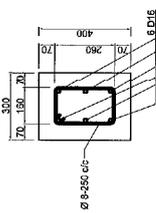
EDGE BEAM (L = 6.80 m)  
SCALE 1 : 25



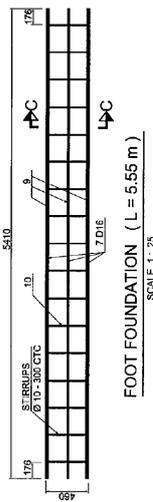
EDGE BEAM (L = 6.90 m)  
SCALE 1 : 25



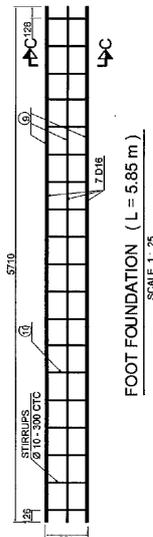
VERTICAL BEAM (L = 9.42 m)  
SCALE 1 : 25



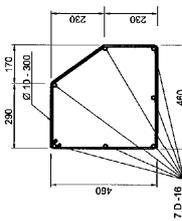
VERTICAL BEAM (SECTION D - D)  
SCALE 1 : 5



FOOT FOUNDATION (L = 5.55 m)  
SCALE 1 : 25



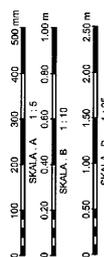
FOOT FOUNDATION (L = 5.85 m)  
SCALE 1 : 25



FOOT FOUNDATION (SECTION C - C)  
SCALE 1 : 10

REINFORCEMENT OF BAR

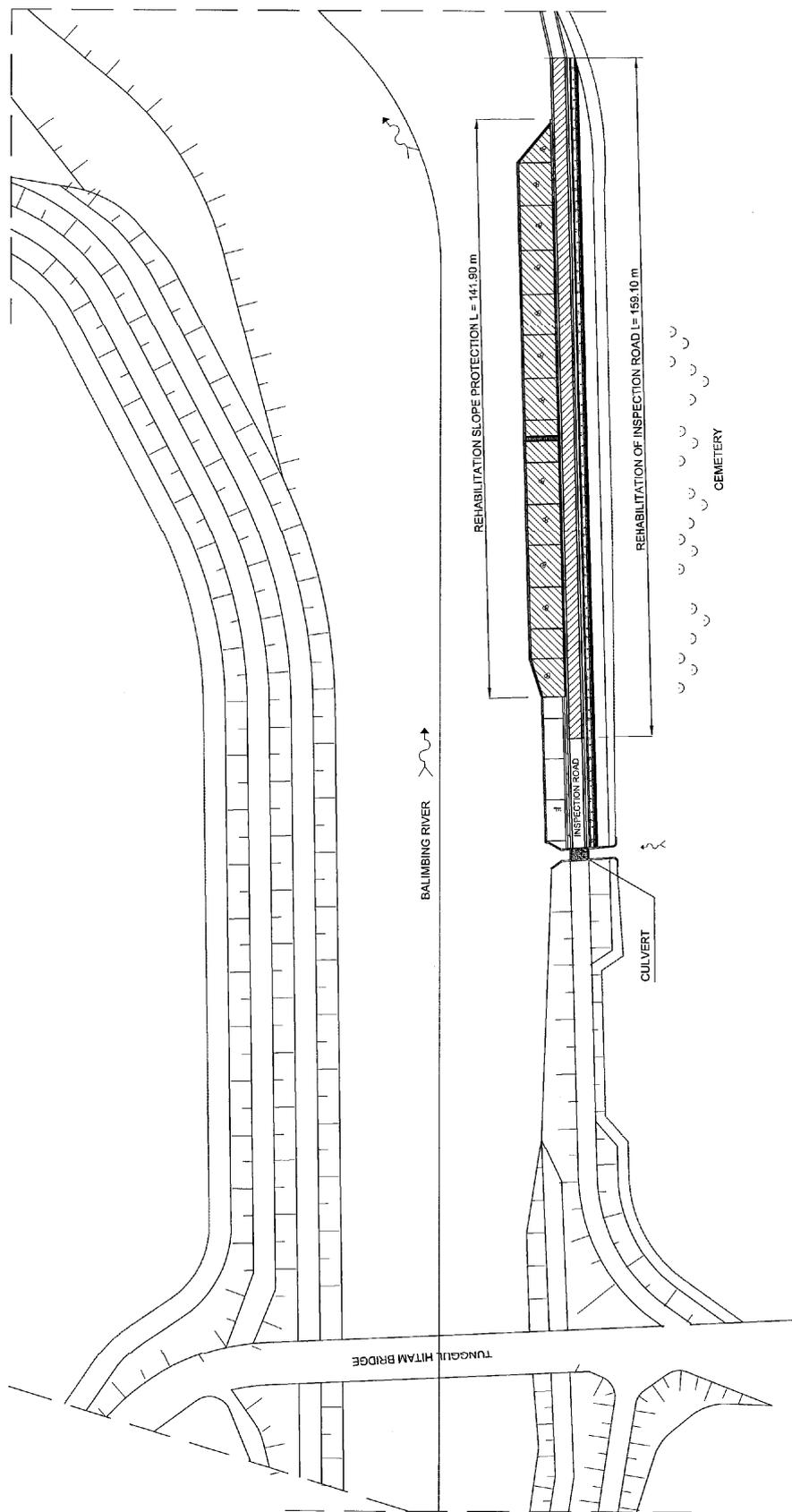
REMARK	DIA (mm)	LENGTH (m)	PCS	TOTAL (Kg)
VERTICAL BEAM L = 9.374 m	16	0.97	48	0.40
VERTICAL BEAM L = 3.42 m	16	0.92	48	0.40
EDGE BEAM L = 3.50 m	16	1.12	28	0.40
EDGE BEAM L = 3.60 m	16	1.12	28	0.40
FOOT FOUNDATION L = 5.55 m	16	1.82	20	0.62
FOOT FOUNDATION L = 5.85 m	16	1.82	19	0.52
VERTICAL BEAM L = 9.374 m	8	0.97	48	1.58
VERTICAL BEAM L = 3.42 m	8	0.92	48	1.58
EDGE BEAM L = 3.50 m	8	1.12	28	1.58
EDGE BEAM L = 3.60 m	8	1.12	27	1.58
FOOT FOUNDATION L = 5.55 m	10	1.82	20	0.62
FOOT FOUNDATION L = 5.85 m	10	1.82	19	0.52
VERTICAL BEAM L = 9.374 m	8	0.97	48	1.58
VERTICAL BEAM L = 3.42 m	8	0.92	48	1.58
EDGE BEAM L = 3.50 m	8	1.12	28	1.58
EDGE BEAM L = 3.60 m	8	1.12	27	1.58
FOOT FOUNDATION L = 5.55 m	10	1.82	20	0.62
FOOT FOUNDATION L = 5.85 m	10	1.82	19	0.52



 JICA BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang				APPROVED BY DATE PROPOSED BY DATE BY DATE DESCRIPTION	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 3 OF MANGGALO BRIDGE TITLE : DETAIL REBAR OF SLOPE PROTECTION	SHEET NO. KR-PS-SP-1-2
		APPROVED BY DATE PROPOSED BY DATE BY DATE DESCRIPTION						

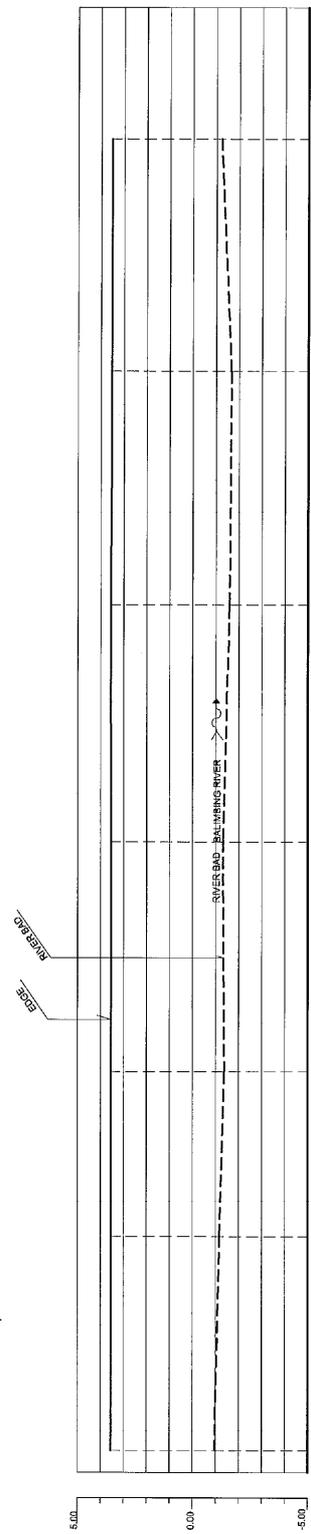






**PLAN**  
SCALE 1 : 500

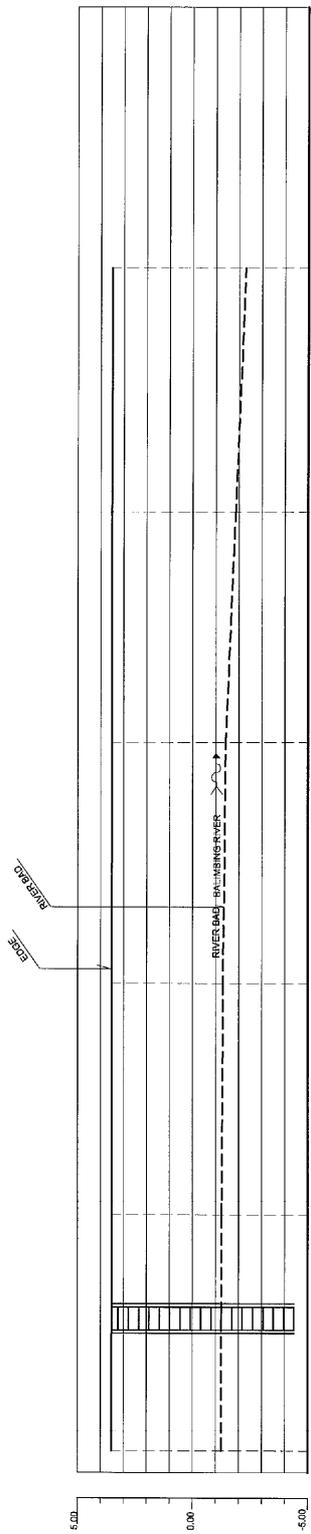
						Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang		SHEET NO. AS BUILT DRAWINGS LOCATION : BALIMBING RIVER NAME OF WORKS : WORKS AT DOWNSTREAM SITE OF TUNGGUL HITAM BRIDGE TITLE : PLAN	
REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	I. HENDRO Project Manager Yuselius The Engineer			



BL-R1-0.0	BL-R1-10.0	BL-R1-20.0	BL-R1-30.0	BL-R1-40.0	BL-R1-50.0
0.00	10.00	20.00	30.00	40.00	50.00
-0.951	-1.174	-1.375	-1.528	-1.691	-1.828
3.541	3.544	3.549	3.549	3.662	3.534
SLOPE DISE CROWN AS BUILT (M) EDGE AS BUILT (M) RIVER BAD AS BUILT (M) CUMULATIVE BETWEEN TWO SECTION DISTANCE (M)					



 JICA BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang			APPROVED BY DATE  Yoseph Agus TIS Engineer	AS BUILT DRAWINGS LOCATION : BALIMBING RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF NANGGALO BRIDGE TITLE : LONGITUDINAL PROFILE OF RIGHT DIKE	SHEET NO. BL - R1 - LP4-H
		REV.	DATE	DESCRIPTION			



BL	REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	SECTION NO.
BL-R1.60							
BL-R1.70							
BL-R1.80							
BL-R1.90							
BL-R1.100							
BL-R1.110							

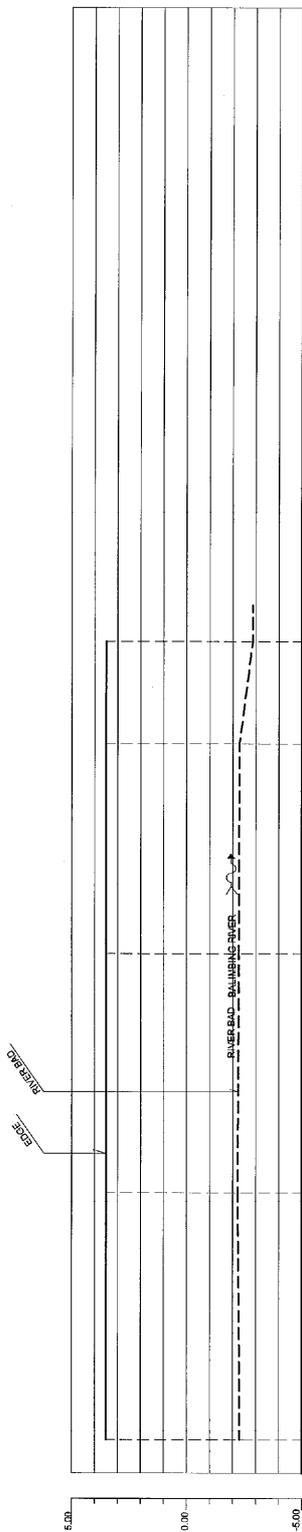
  

BL	REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	SECTION NO.
BL-R1.60							
BL-R1.70							
BL-R1.80							
BL-R1.90							
BL-R1.100							
BL-R1.110							

BL	REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	SECTION NO.
BL-R1.60							
BL-R1.70							
BL-R1.80							
BL-R1.90							
BL-R1.100							
BL-R1.110							

 JICA	 BWSS-V	 PT. WASKITTA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	AS BUILT DRAWINGS	SHEET NO.
				LOCATION : BALIMBING RIVER	BL - R1 - LP1-2
			NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF NANGGALO BRIDGE	TITLE : LONGITUDINAL PROFILE OF RIGHT DIKE	



REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	SHEET NO.
						AS BUILT DRAWINGS
						LOCATION : BALIMBING RIVER
						NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF MANGGALO BRIDGE
						TITLE : LONGITUDINAL PROFILE OF RIGHT DIKE
						BL - R1 - LP1-3

BL-R1-110	BL-R1-120	BL-R1-130	BL-R1-140.40	BL-R1-144.80
110.00 - 2.303 3.521	120.00 - 2.224 3.509	130.00 - 2.268 3.499	140.00 - 2.298 3.505	144.50 - 2.872 3.504
10.00	10.00	10.00	10.00	4.50

BL-R1-110	BL-R1-120	BL-R1-130	BL-R1-140.40	BL-R1-144.80
110.00	120.00	130.00	140.00	144.50
2.303	2.224	2.268	2.298	2.872
3.521	3.509	3.499	3.505	3.504

BL-R1-110	BL-R1-120	BL-R1-130	BL-R1-140.40	BL-R1-144.80
110.00	120.00	130.00	140.00	144.50
2.303	2.224	2.268	2.298	2.872
3.521	3.509	3.499	3.505	3.504

BL-R1-110	BL-R1-120	BL-R1-130	BL-R1-140.40	BL-R1-144.80
110.00	120.00	130.00	140.00	144.50
2.303	2.224	2.268	2.298	2.872
3.521	3.509	3.499	3.505	3.504

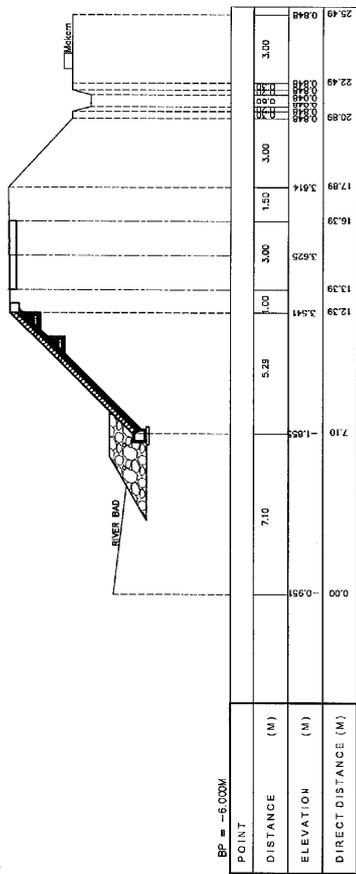


Republic of Indonesia  
Project for Post-earthquake Rehabilitation of  
Water Resources Management Facilities  
in Padang

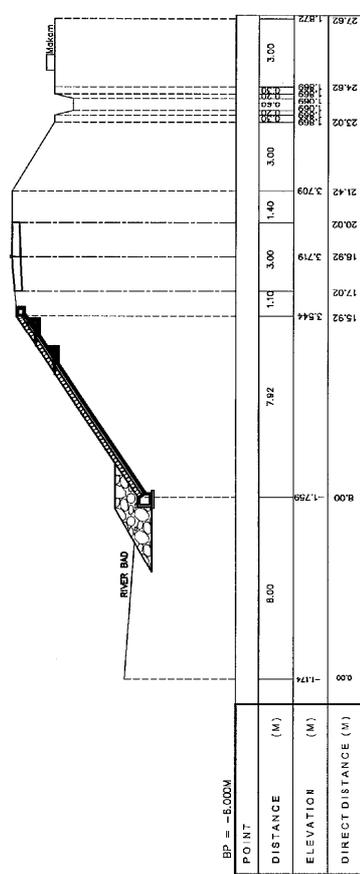
YOSHIKATSU  
The Engineer

LOLY HEWORO  
Project Manager

BL-R1-00



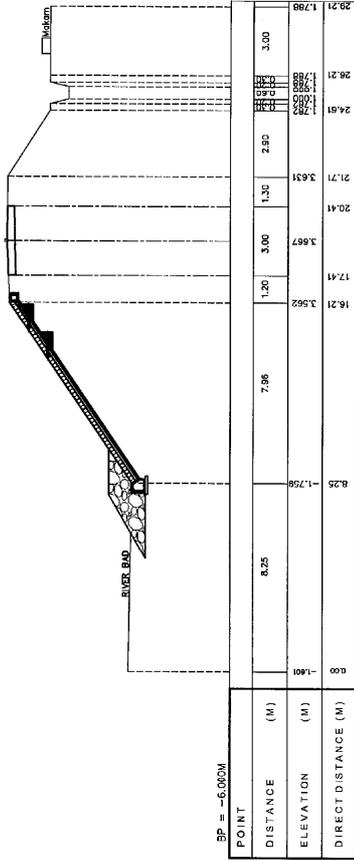
BL-R1 .10



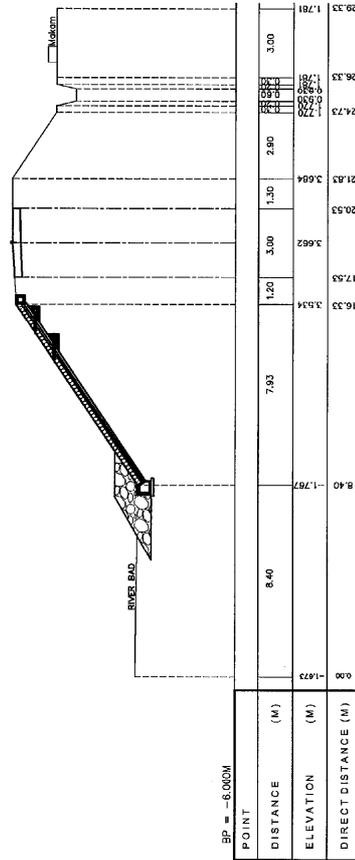
JICA BWSS-V WASKITA PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	 YOSEPH JUSUF The Engineer	ASBUILT DRAWINGS	SHEET NO.
		LOCATION	: BALIMBING RIVER	NAME OF WORKS	: WORKS AT UPSTREAM SITE 2 OF NANGGALO BRIDGE	TITLE	: CROSS SECTION PROFILE OF RIGHT DIKE		BL-R1-CS-14	



BL-R1 .40

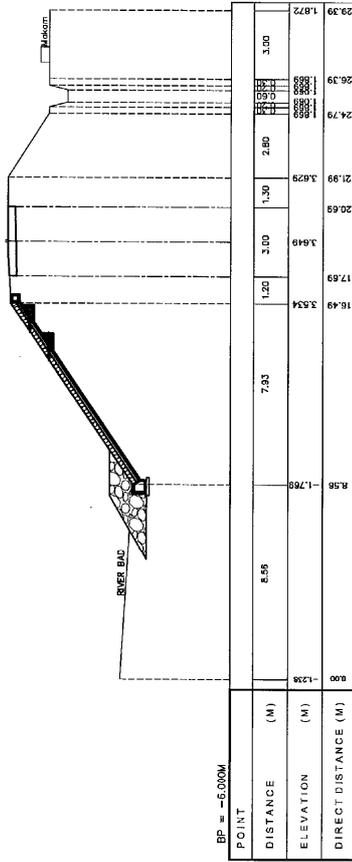


BL-R1 .50

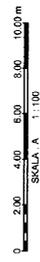
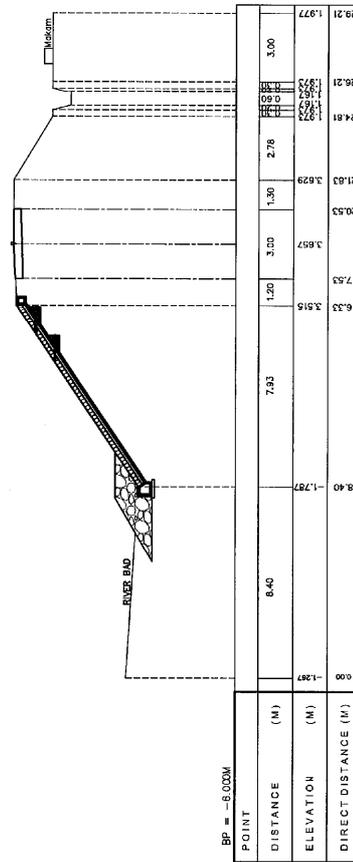


JICA BWSS-V PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	DATE	APPROVED BY	DATE	ASBUILT DRAWINGS	SHEET NO.
											LOCATION : BALIMBING RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF NANGGALO BRIDGE TITLE : CROSS SECTION PROFILE OF RIGHT DIKE

BL-R1 .60

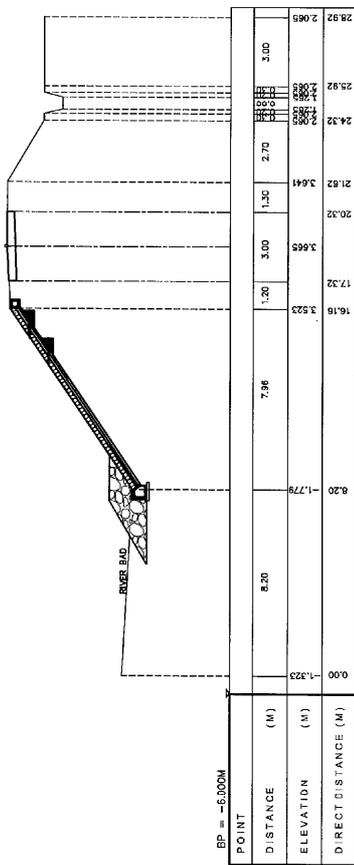


BL-R1 .70

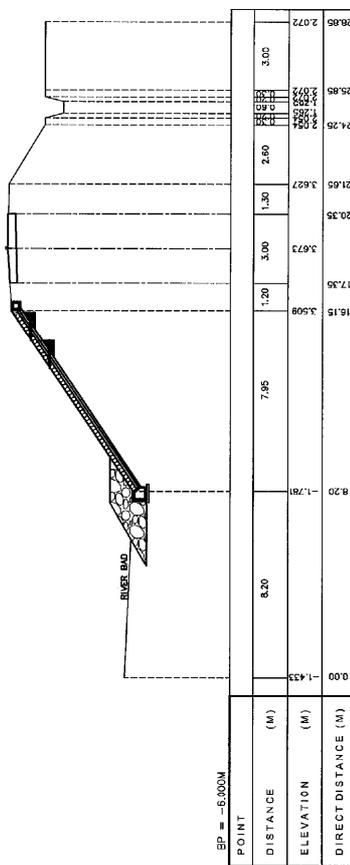


 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	DATE	APPROVED BY	DATE	SHEET NO. ASBUILT DRAWINGS LOCATION : BALIMBING RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF NAGGALO BRIDGE TITLE : .GROSS SECTION PROFILE OF RIGHT DIKE BL - R1 - C8-1.4

BL-R1 .80

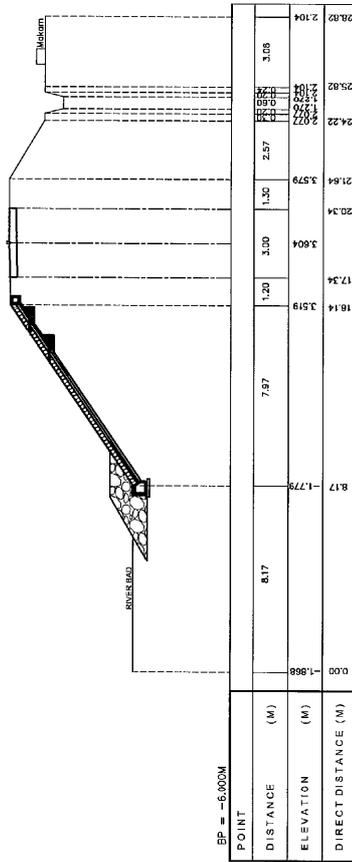


BL-R1 .90

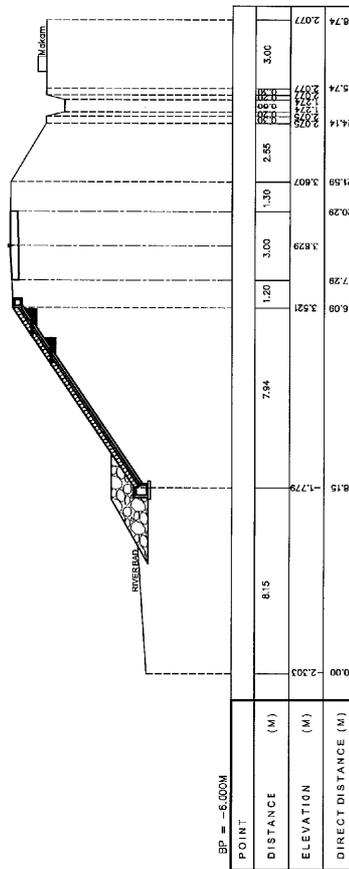


JICA BWSS-V WASKITA PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	SHEET NO. ASBUILT DRAWINGS LOCATION : BALIMBING RIVER NAME OF WORKS :WORKS AT UPSTREAM SITE 2 OF MANGGALO BRIDGE TITLE :CROSS SECTION PROFILE OF RIGHT DIKE

BL-R1 .100

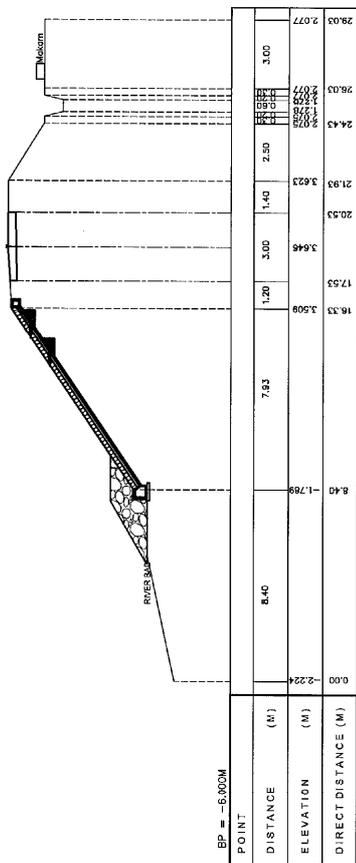


BL-R1 .110

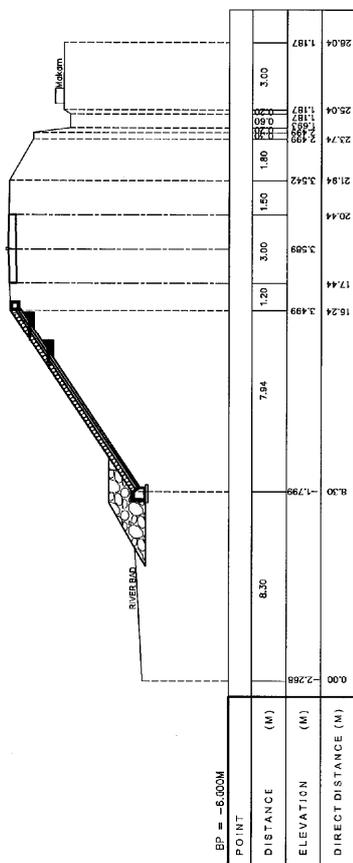


JICA BWSS-V WASKITA PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	DATE	APPROVED BY	DATE	SHEET NO. ASBUILT DRAWINGS BALIMBING RIVER LOCATION NAME OF WORKS WORKS AT UPSTREAM SITE 2 OF MANGGALO BRIDGE BL - R1 - 05 1-8 TITLE CROSS SECTION PROFILE OF RIGHT DIKE

BL-R1 .120

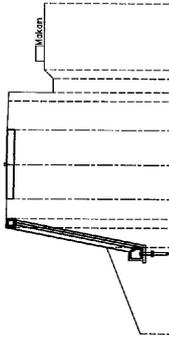


BL-R1 .130



 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE     	PROPOSED BY DATE  JOLLY HENDRO Project Manager	APPROVED BY DATE  YUSAKU USUI THE Engineer	ASBUILT DRAWINGS LOCATION : BALIMBING RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF MANGGALO BRIDGE TITLE : CROSS SECTION PROFILE OF RIGHT DIKE	SHEET NO. BL - R1 - 05 1-7
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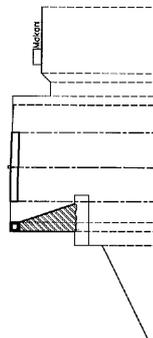
BL-R1 .140.40



BP = -6.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0.00	0.00	14.74	1.994
0.84	4.00	11.74	2.148
0.84	3.00	10.54	2.418
0.84	3.499	9.99	2.482
0.84	3.499	9.09	2.482
0.84	3.499	8.09	2.482
0.84	3.499	7.09	2.482
0.84	3.499	6.09	2.482
0.84	3.499	5.09	2.482
0.84	3.499	4.00	2.289
0.84	3.499	3.00	2.148
0.84	3.499	2.00	2.000
0.84	3.499	1.00	1.852
0.84	3.499	0.00	1.704

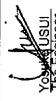
BL-R1 144.50



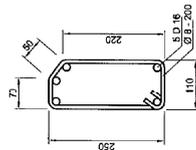
BP = -6.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0.00	0.00	15.20	2.175
0.80	4.70	12.20	2.400
0.80	3.00	10.60	2.394
0.80	3.404	9.60	2.394
0.80	3.404	8.60	2.394
0.80	3.404	7.60	2.394
0.80	3.404	6.60	2.394
0.80	3.404	5.60	2.394
0.80	3.404	4.60	2.394
0.80	3.404	3.60	2.394
0.80	3.404	2.60	2.394
0.80	3.404	1.60	2.394
0.80	3.404	0.60	2.394
0.80	3.404	0.00	2.272

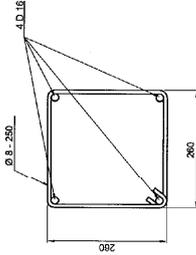


 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE  PROJECT MANAGER	APPROVED BY DATE  THE ENGINEER	ASBUILT DRAWINGS .BALIMBING RIVER LOCATION NAME OF WORKS WORKS AT UPSTREAM SITE 2 OF NANGGALO BRIDGE BL-R1-CS 14 TITLE CROSS SECTION PROFILE OF RIGHT DIKE	SHEET NO.
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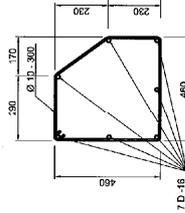




VERTICAL BEAM ( SECTION A - A )  
SCALE 1 : 5



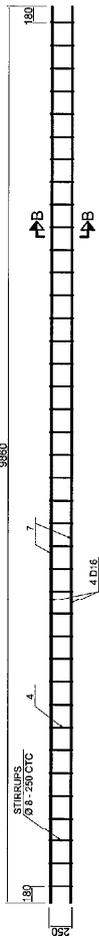
EDGE BEAM ( SECTION B - B )  
SCALE 1 : 5



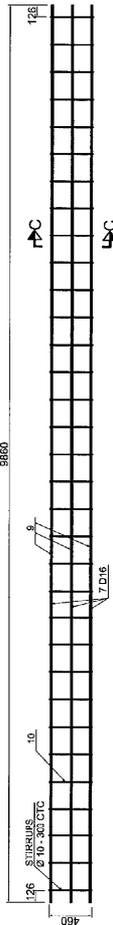
FOOT FOUNDATION ( SECTION C - C )  
SCALE 1 : 10



VERTICAL BEAM ( L = 9.56 m )  
SCALE 1 : 25



EDGE BEAM ( L = 10.00 m )  
SCALE 1 : 25

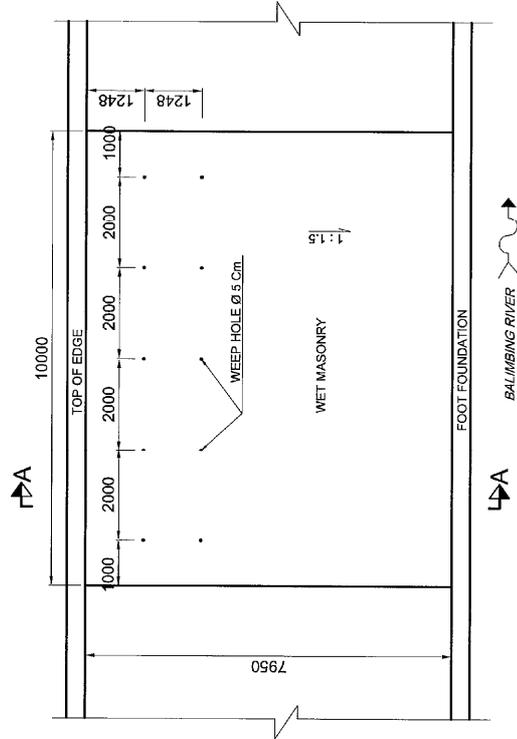


FOOT FOUNDATION ( L = 10.00 m )  
SCALE 1 : 25

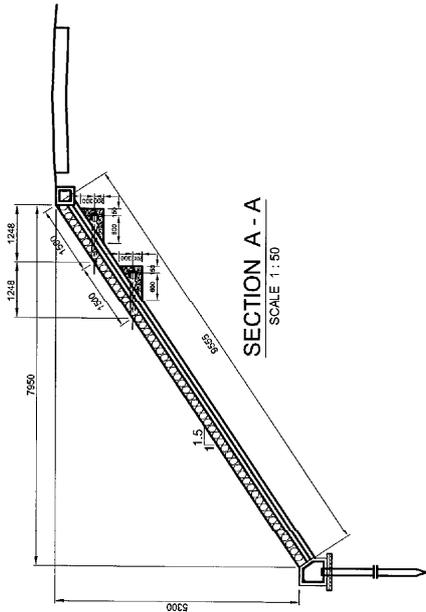
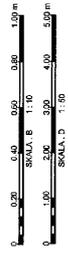
REINFORCEMENT OF BAR

REMARK	DIA (mm)	LENGTH (m)	POS	TOTAL (kg)
VERTICAL BEAM L = 9.56 m	4 Ø 8	0.74	48	0.40
	5 D 16	0.48	5	1.58
EDGE BEAM L = 10.00 m	4 Ø 8	1.13	40	0.40
	7 D 16	0.98	4	1.58
FOOT FOUNDATION L = 10.00 m	10 Ø 10	1.68	33	0.82
	5 D 16	0.96	7	1.58

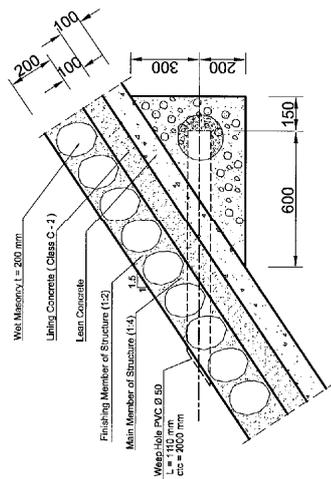
			Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	AS BUILT DRAWINGS LOCATION : BALIMBING RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF NANGGALD BRIDGE TITLE : DETAIL REBAR OF SLOPE PROTECTION	SHEET NO. BL - R1 - SP - 1-2
	PT. WASKITA KARYA		Project Manager	APPROVED BY DATE	APPROVED BY DATE



PLAN OF WEEP HOLE  
SCALE 1 : 50

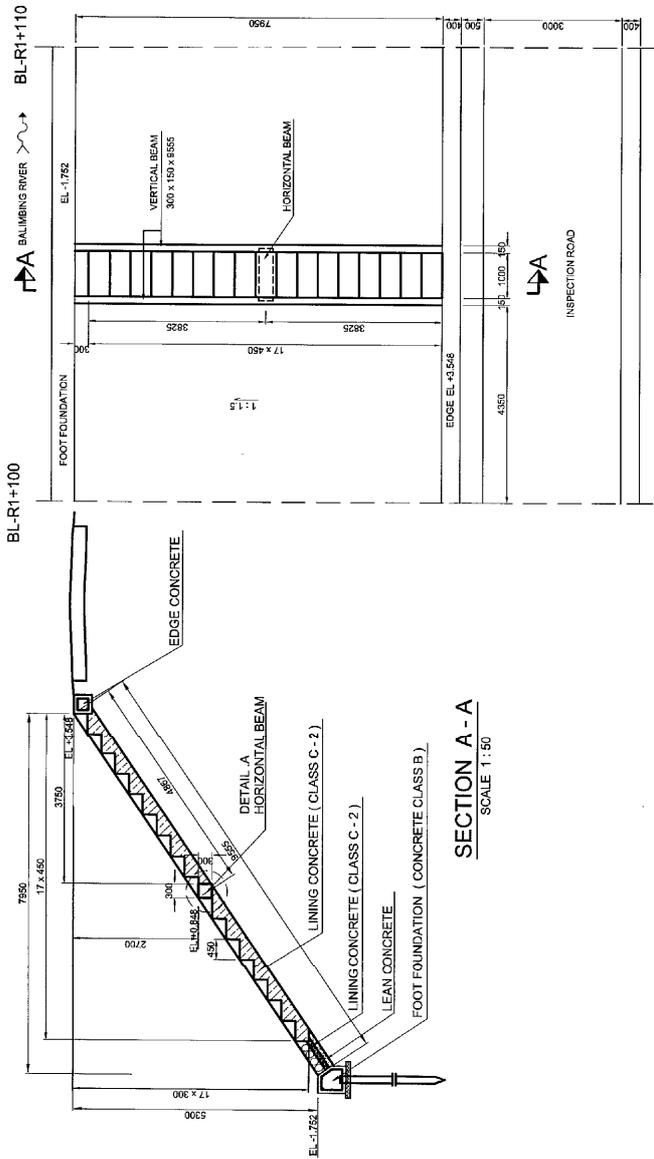


SECTION A - A  
SCALE 1 : 1.50

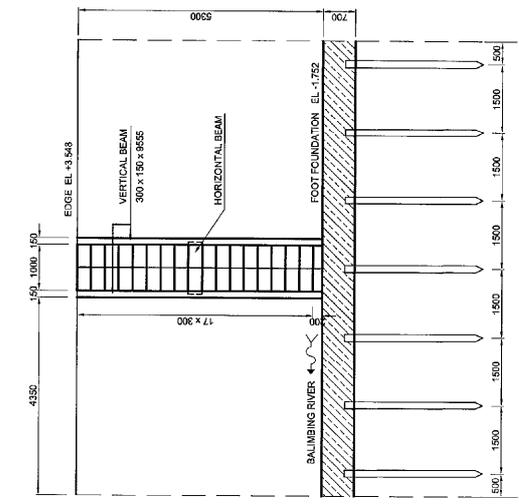


DETAIL B ( WEEP HOLE )  
SCALE 1 : 10

JICA BWSS-V PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities In Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	AS BUILT DRAWINGS	SHEET NO.
						I. DONTRENDRA Project Manager	Y. S. S. S. S. The Engineer	LOCATION : BALIMBING RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF NANGGALO BRIDGE TITLE : DETAIL WEEP HOLE	BAL-R1-SP-13



SECTION A - A  
SCALE 1:50



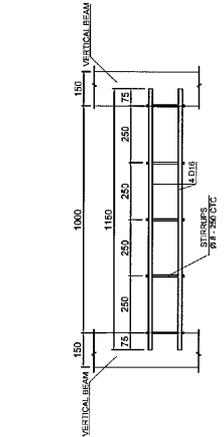
FRONT VIEW  
SCALE 1:50

PLAN  
SCALE 1:50

REINFORCEMENT OF BAR

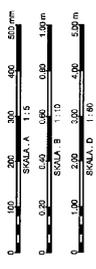
REMARK	DIA (mm)	LENGTH (m)	PCS	TOTAL (kg)
HORIZONTAL BEAM L = 1,00 m	Ø 8	0,72	5	0,40 1,44
	Ø 16	1,150	4	1,68 7,27
TOTAL				8,71

REMARK	DIA (mm)	LENGTH (m)	PCS	TOTAL (kg)
VERTICAL BEAM L = 8,56 m	Ø 8	0,67	47	0,40 10,72
	Ø 16	9,49	5	1,58 78,93
TOTAL				86,65

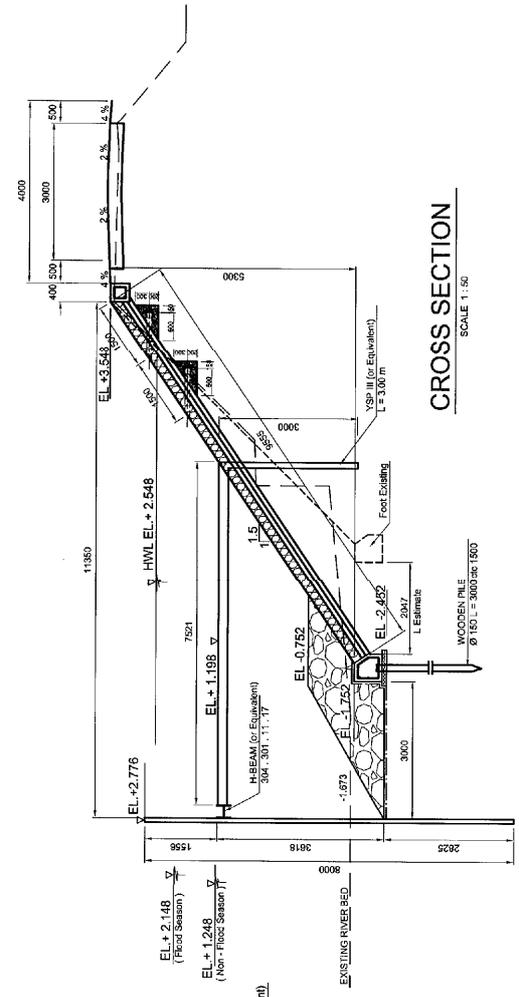


DETAIL . A (HORIZONTAL BEAM)  
SCALE 1:10

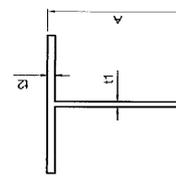
HORIZONTAL BEAM  
SCALE 1:10



	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	AS BUILT DRAWINGS	SHEET NO.
					Ir. LUTY HENDRA Project Manager	Yousuf Jusuf The Engineer	LOCATION : BALUBING RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF NANGGALO BRIDGE TITLE : DETAIL STAIR	BL-R1-SP-1-A	

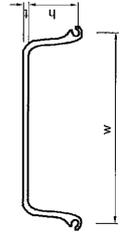


**CROSS SECTION**  
SCALE 1:50



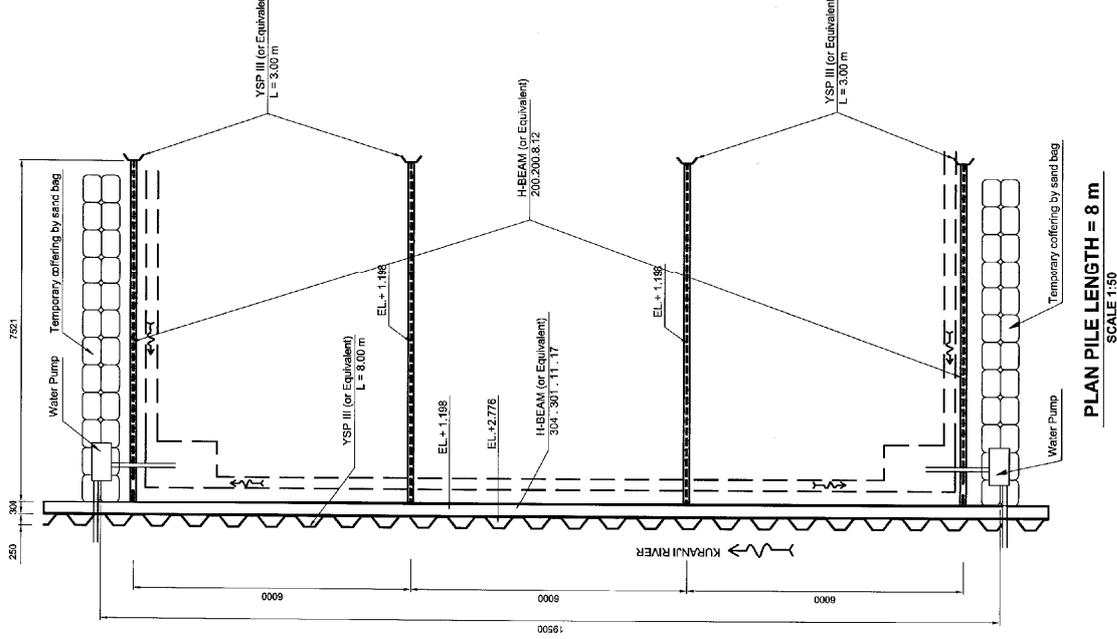
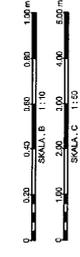
TYPE	A (mm)	B (mm)	t1 (mm)	t2 (mm)
H 304.301.11	304	301	11	17
H 200.200.8	200	200	8	12

**SECTION OF H-BEAM**  
SCALE 1:10

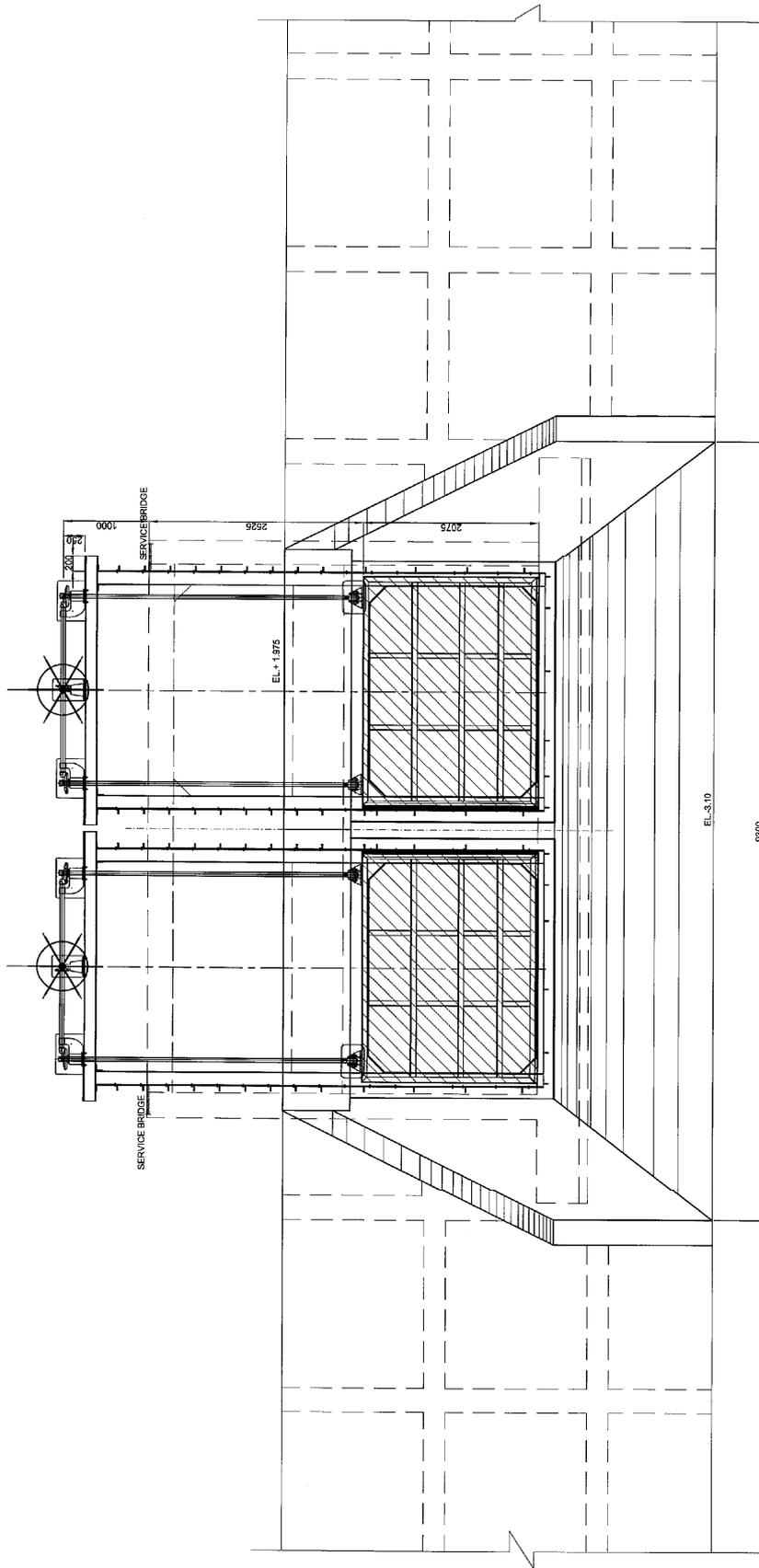


TYPE	W (mm)	h (mm)	t (mm)
TYPE II	400	100	10.5
TYPE III	400	125	13

**SECTION OF SHEET PILE**  
SCALE 1:10



<p>JICA WASKITA PT. WASKITA KARYA</p>	<p>Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang</p>	REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	SHEET NO.	
		<p>AS BUILT DRAWINGS LOCATION : BALIMBING RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 2 OF NANGALO BRIDGE TITLE : PLAN &amp; SECTION OF TEMPORARY COFFERING</p>							



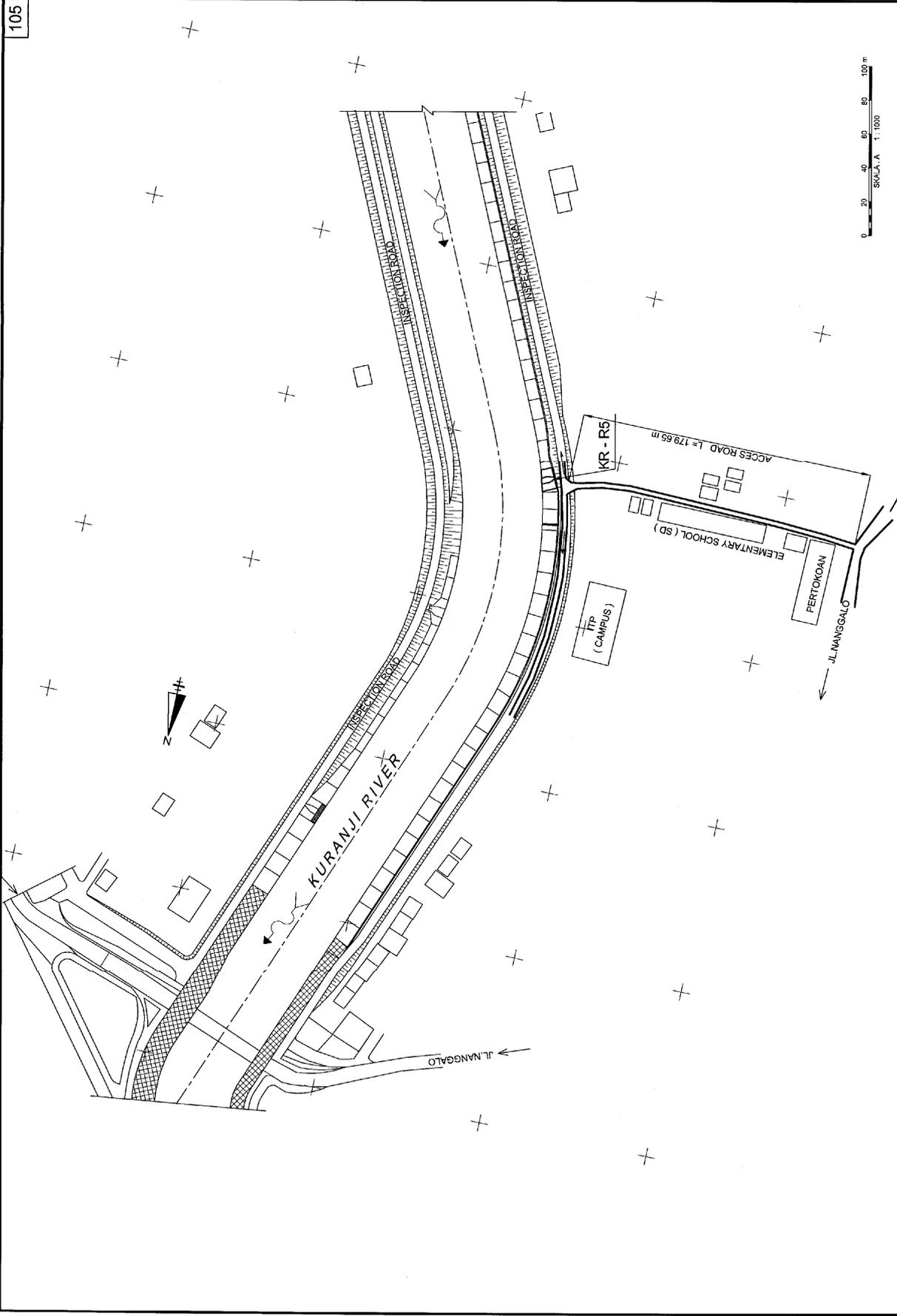
REMARKS :  
 SERVICE AND REPAIRING SLIDE GATE



FRONT VIEW  
 SKALA 1:25

 JICA  BWSS-V  WASKITA PT. WASKITA KARYA		Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang		REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE  Ir. LUTY RENOR Project Manager	APPROVED BY DATE  YASRI MUBILI The Engineer	AS BUILT DRAWINGS LOCATION : FRC ( BANJIR KANAL ) NAME OF WORKS : WORKS AROUND PURUS SLUISE TITLE : SECTION SLIDE GATE	SHEET NO. BK - RT - SR - 1
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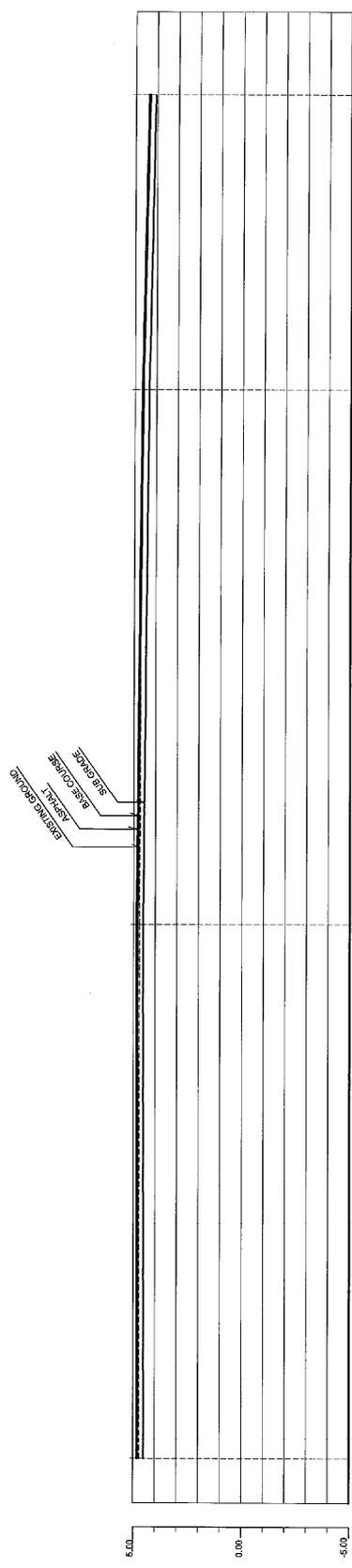




						Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang		SHEET NO. KR-RS-AR-P1	
JICA		BWSS-V		PT. WASKITA KARYA		AS BUILT DRAWINGS		LOCATION : KURANJI RIVER	
DATE		DESCRIPTION		BY		APPROVED BY DATE		NAME OF WORKS : ADDITIONAL WORK TITLE : ACCESS ROAD	
REV.		DATE		DESCRIPTION		BY		APPROVED BY DATE	
1		2023		1. ACCESS ROAD		H. LOY HENDRO Project Manager		YESYUSUJI The Engineer	







REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	SHEET NO.
1	14/11/2018					108
2	14/11/2018					
3	14/11/2018					
4	14/11/2018					
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100	14/11/2018					



JICA  
BWSS-V

PT. WASKITA KARYA

Republic of Indonesia  
Project for Post-earthquake Rehabilitation of  
Water Resources Management Facilities  
in Padang

AS BUILT DRAWINGS

LOCATION : KURANJI RIVER

NAME OF WORKS : WORKS AT UPSTREAM SITE 3 OF MANGGALO BRIDGE

TITLE : LONGITUDINAL PROFILE OF ACCESS ROAD

APPROVED BY DATE

*[Signature]*  
YUSRI YUSRI  
The Engineer

PROPOSED BY DATE

*[Signature]*  
IKHTAR HENDRO  
Project Manager

SHEET NO.

MR-26-AR-LP-03

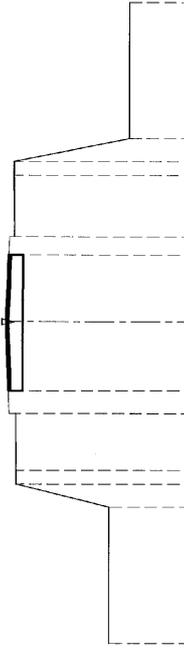
KR-R5 0



BP =+1.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
	5.00	5.218	0.00
	5.00	5.218	5.324
	5.00	5.218	10.00

KR-R5 10



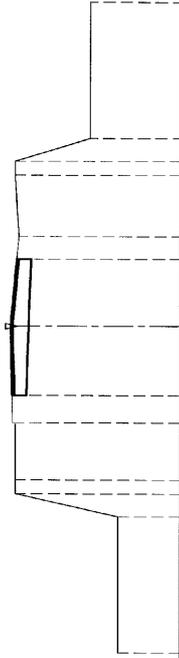
BP =+1.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
	3.00	2.827	0.00
	3.00	2.827	2.827
	1.25	5.009	3.00
	0.50	5.030	3.50
	1.50	5.059	3.80
	0.40	5.029	4.842
	1.35	4.991	4.842
	0.30	4.892	4.842
	0.50	4.892	4.842
	0.50	11.10	3.00
	3.00	14.10	3.00



 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	AS BUILT DRAWINGS	SHEET NO.

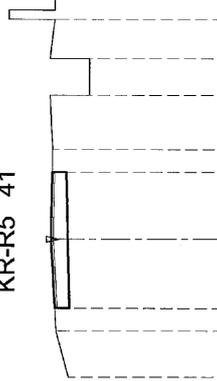
KR-R5 30



BP =+1.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0.00	2.333	3.80	0.00
0.50	3.00	3.50	0.50
1.00	3.00	4.550	1.00
1.25	3.00	4.612	1.25
1.50	3.00	4.63	1.50
1.75	3.00	4.661	1.75
2.00	3.00	4.538	2.00
2.25	3.00	4.478	2.25
2.50	3.00	4.565	2.50
2.75	3.00	4.585	2.75
3.00	3.00	4.565	3.00
3.25	3.00	4.585	3.25
3.50	3.00	4.565	3.50
3.75	3.00	4.585	3.75
4.00	3.00	4.565	4.00
4.25	3.00	4.585	4.25
4.50	3.00	4.565	4.50
4.75	3.00	4.585	4.75
5.00	3.00	4.565	5.00
5.25	3.00	4.585	5.25
5.50	3.00	4.565	5.50
5.75	3.00	4.585	5.75
6.00	3.00	4.565	6.00
6.25	3.00	4.585	6.25
6.50	3.00	4.565	6.50
6.75	3.00	4.585	6.75
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7.75	3.00	4.585	7.75
8.00	3.00	4.565	8.00
8.25	3.00	4.585	8.25
8.50	3.00	4.565	8.50
8.75	3.00	4.585	8.75
9.00	3.00	4.565	9.00
9.25	3.00	4.585	9.25
9.50	3.00	4.565	9.50
9.75	3.00	4.585	9.75
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13.50	3.00	4.565	13.50
13.75	3.00	4.585	13.75
14.00	3.00	4.565	14.00
14.25	3.00	4.585	14.25
14.50	3.00	4.565	14.50
14.75	3.00	4.585	14.75
15.00	3.00	4.565	15.00

KR-R5 41



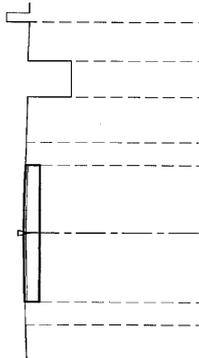
BP =+1.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0.00	4.420	3.80	0.00
0.50	3.00	3.50	0.50
1.00	3.00	4.690	1.00
1.25	3.00	4.768	1.25
1.50	3.00	4.788	1.50
1.75	3.00	4.798	1.75
2.00	3.00	4.766	2.00
2.25	3.00	4.766	2.25
2.50	3.00	4.830	2.50
2.75	3.00	4.830	2.75
3.00	3.00	4.830	3.00
3.25	3.00	4.830	3.25
3.50	3.00	4.830	3.50
3.75	3.00	4.830	3.75
4.00	3.00	4.830	4.00
4.25	3.00	4.830	4.25
4.50	3.00	4.830	4.50
4.75	3.00	4.830	4.75
5.00	3.00	4.830	5.00
5.25	3.00	4.830	5.25
5.50	3.00	4.830	5.50
5.75	3.00	4.830	5.75
6.00	3.00	4.830	6.00
6.25	3.00	4.830	6.25
6.50	3.00	4.830	6.50
6.75	3.00	4.830	6.75
7.00	3.00	4.830	7.00
7.25	3.00	4.830	7.25
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7.75	3.00	4.830	7.75
8.00	3.00	4.830	8.00
8.25	3.00	4.830	8.25
8.50	3.00	4.830	8.50
8.75	3.00	4.830	8.75
9.00	3.00	4.830	9.00
9.25	3.00	4.830	9.25
9.50	3.00	4.830	9.50
9.75	3.00	4.830	9.75
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10.75	3.00	4.830	10.75
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11.25	3.00	4.830	11.25
11.50	3.00	4.830	11.50
11.75	3.00	4.830	11.75
12.00	3.00	4.830	12.00
12.25	3.00	4.830	12.25
12.50	3.00	4.830	12.50
12.75	3.00	4.830	12.75
13.00	3.00	4.830	13.00
13.25	3.00	4.830	13.25
13.50	3.00	4.830	13.50
13.75	3.00	4.830	13.75
14.00	3.00	4.830	14.00
14.25	3.00	4.830	14.25
14.50	3.00	4.830	14.50
14.75	3.00	4.830	14.75
15.00	3.00	4.830	15.00



 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	AS BUILT DRAWINGS	SHEET NO.
				NAME OF WORKS : WORKS AT UPSTREAM SITE 3 OF NANGALO BRIDGE				TITLE : CROSS SECTION PROFILE OF ACCESS ROAD			

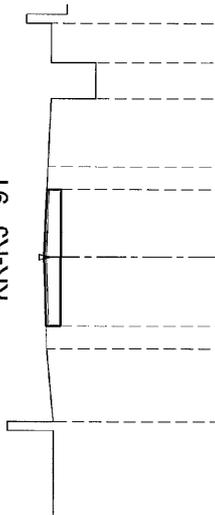
KR-R5 66



BP =+1.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
	0.80	4.835	0.00
	1.50	4.867	1.30
	1.50	4.882	2.80
	1.50	4.917	4.30
	1.50	4.882	5.80
	1.00	4.859	7.45
	0.80	4.843	8.75
	0.85	4.892	9.60
		4.873	10.45
		4.800	11.30

KR-R5 91



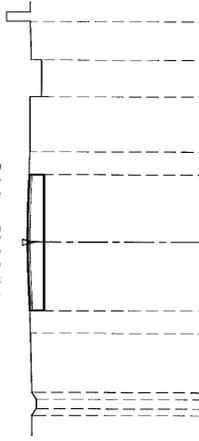
BP =+1.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
	1.60	4.740	0.00
	0.50	4.843	1.60
	0.50	4.862	2.10
	1.50	4.895	3.60
	0.50	4.862	5.10
	0.50	4.834	5.60
	1.50	4.760	7.10
	0.80	4.790	8.75
	0.85	4.780	9.60
		4.419	10.45



 JICA	 BWSS-V	 PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.    DATE    DESCRIPTION    BY	PROPOSED BY DATE Ir. LOY HENDRO Project Manager	APPROVED BY DATE  Yusri Kusilil The Engineer	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE S OF NANGGALO BRIDGE TITLE : CROSS SECTION PROFILE OF ACES ROAD	SHEET NO. KR-R5-AR-CS 1-3
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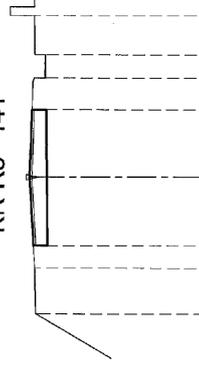
KR-R5 116



BP =+1.000M

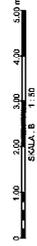
POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
0.00	0.50	4.728	4.728
0.50	1.30	4.728	4.728
1.00	0.50	4.755	4.805
1.50	0.50	4.800	4.900
2.00	1.50	4.830	4.930
2.50	0.50	4.800	4.880
3.00	0.50	4.784	4.800
3.50	1.20	4.784	4.784
4.00	0.80	4.781	4.781
4.50	0.85	4.779	4.779
5.00			8.65

KR-R5 141



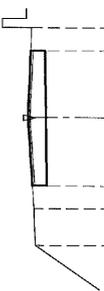
BP =+1.000M

POINT	DISTANCE (M)	ELEVATION (M)	DIRECT DISTANCE (M)
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0.50	1.00	4.759	4.759
1.00	0.50	4.838	4.838
1.50	1.50	4.868	4.868
2.00	0.50	4.838	4.838
2.50	1.50	4.781	4.781
3.00	0.85	4.779	4.779
3.50			6.65



JICA BWSS-V WASKITA PT. WASKITA KARYA	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY DATE	APPROVED BY DATE	AS BUILT DRAWINGS	SHEET NO.
									LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 3 OF MANGALO BRIDGE KR-R5-AR-GS 1-4 TITLE : CROSS SECTION PROFILE OF ACCESS ROAD

KR-R5 166



BP =+1.000M

POINT					
DISTANCE (M)	0.80	1.50	1.50	1.50	0.50
ELEVATION (M)	4.491	4.515	4.634	4.664	4.696
DIRECT DISTANCE (M)	0.00	0.80	1.30	2.80	4.30
					4.80

KR-R5 179.80



BP =+1.000M

POINT					
DISTANCE (M)		2.40		2.65	
ELEVATION (M)	4.383	4.379	4.398		
DIRECT DISTANCE (M)	0.00	2.40	4.379	5.05	



	Republic of Indonesia Project for Post-earthquake Rehabilitation of Water Resources Management Facilities in Padang	REV.	DATE	DESCRIPTION	BY	PROPOSED BY	APPROVED BY	AS BUILT DRAWINGS LOCATION : KURANJI RIVER NAME OF WORKS : WORKS AT UPSTREAM SITE 3 OF MANGALO BRIDGE TITLE : CROSS SECTION PROFILE OF ACCESS ROAD	SHEET NO. KR-R5-ARC-5
						DATE PROJECT MANAGER If. LOUY REINDRO	DATE THE ENGINEER Yusri Jusli		