

BAR BENDING SCHEDULE

9

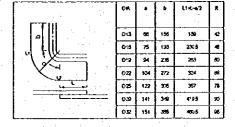
SHAPE	<u>, [1</u>	1-11	<u></u>
F-11-4			1/2
l · · ·	w .	o	•

	U		v		9			0			
TYPE	SHAPE	DIA	NUMBER	LENGTH	u	L2	1.3	L4	1.5	R	
				(mm)	(mm)	(mm)	(mm)	(mm)	(നന)	(හඟ)	
W1	2	13	43	2510	2.286	228					
W2	4	13	43	2,850	2,290	278	278				
W3	1	13	11	11,630	10,320	1,360					
W4	1	13	9	10,320	10,320						
W5	3	13	43	560	228	102	228	<u> </u>			
W6	2	13	44	2,120	avg 1,890	228		<u> </u>			
W7	1	13	6	5,130	5,128					L	
W7a	1	13	3	2,560	avg 2,564						
₩76	1	13	1	5,180	5,181						
W8	1	13	- 6	5,130	5,128						
W8a	1	13	3	2,560	avg2,564						
W80	1	13	1	5,180	5,181			l			
W9	3	13	22	560	228	102	228			Ĺ <u> </u>	
W10	2	13	42	1,380	avg 1,152	228					
Wii	1	13	4	4,820	4,820						
W11a	1	13	3	2410	avg 2,410						
Wilb	1	13	1	4,870	4,872						
W12	1	13	4	4,820	4,820						
W12a	1	13	3	2,410	avg 2,410						
W12b	1	13	1	4,870	4,872					- 1	
							<u></u>				
S1	2	13	43	2,090	278	1,810					
S2	3	13	43	2,320	228	277	1,811			L	
83	1	13	6	8,320	8,320			ļi			
\$4	1	13	: 7	8,320	8,320						
\$5	2	13	22	2,090	278	1,810					
\$6	3	13	22	2,170	228	277	1,661				
S7	1	13	7	8,320	8,320						
S8	1	13	8	8,320	8,320						
\$9	2	13	3	8,320	8,320			ļ			
S9a	3	13	3	8,320	8,320			<u> </u>			
\$ 10	2	13	21	8,320	8,320			ļ		<u> </u>	
\$11	3	13	21	8,320	8,320		·	ļ	-	ļ	
S 12	1	13	5	8,320	8,320		· .	 			
\$13	1	13	5	8,320	8,320		ļ <u>.</u>			ļ <u>.</u>	
		L_			ļ		L			ļ	
F1	1	13	10	8,320	8,320	· · · · ·	<u> </u>	 -		 	
F2	1	13	10	8,320	8,320			<u> </u>		L	
					 					<u> </u>	
		L	<u> </u>	L			L		<u> </u>	L	
				-							

BAR WEIGHT

	DIA	LENGTH	NUMBER	WEIGHT	NEGHT	VEIGHT	SHAPE
TYPE	(mm)	(mm)		PER-M"	PER*BAR*	(kg)	
				(kg)	(vg)		
Wi	13	2,510	43	1.04	261	11225	
W2	13	2,850	43	104	296	127.45	L
W3	13	11,680	11	104	12.15	133 52	
W4	13	10,320	9	1.04	10.73	9560	
W5	13	560	43	1.04	058	2504	
₩6	13	2,120	44	1.04	220	9701	
W7	13	5,130	6	1.04	534	3201	
W7a	13	2,560	3	1.04	2.06	7.99	
W/7b	13	5,180	1	1.04	539	539	
W.8	13	5,130	- 6	104	534	3201	
W83	13	2,560	3	1,04	266	7.99	
W85	13	5180	1	104	539	539	
W3	13	560	22	1.04	0.58	1281)
W10	13	1380	42	1.04	1.44	6028	
WII	13	4820	4	1.04	5.01	2006	
Wila	13	2410	3	1.04	251	7.52	
Wilb	13	4870	1	104	506	506	
W12	13	4,820	4	1.04	501	2005	
W12a	13	2410	3	1.04	251	7.52	
W126	13	4,870	1	1.04	506	5.06	
SI	13	2,090	43	1.04	217	93.46	
S2	13	2,320	43	1.04	241	103.75	
S3	13	8,320	6	1.04	8.65	5192	
S4	13	8,320	7	1.04	865	60.57	
\$5	13	2,090	22	1.56	326	7173	
\$6	13	2,170	22	1.04	226	4965	
\$7	13	8,320	7	1.04	866	6057	
\$8	13	8,320	- 8	1,04	865	€922	
S9	13	8320	3	1.04	865	2595	
S9a	13	8350	3	1.04	8.65	25.96	
\$10	13	8320	21	1.04	865	181.71	
\$11	13	8320	21 .	104	8.65	131,71	
S 12	13	8320	5	1.04	865	43.26	
\$13	13	8320	5	104	865	43.26	ļ ———
		·		<u> </u>			
F1	13	8320	10	1.04	865	86.53	
F2	13	8320	10	1.04	8.65	86.53	
	14			тт	OTAL	2,05689	L

BAR BENDING DETAIL



THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DUBCTORATE GEVERAL OF WATER RESOURCES DEVELOPMENT
AND DUBCTORATE GENERAL OF BUMAN SETTLEMENT

AND DESCRIVATE GENERAL OF RUMANSSTILEMENT

TRATUNSELINA PLOOD CONTROL PROJECT

COMPONENT: WEST PLOODWAY/GARANG SIVER IMPROVEMENT

GROUND SILL

GROUND SILL WITH HEAD AT WF 12.4

LIST OF BAR ARRANGEMENT

LIST OF BAR ARRANGEMENT

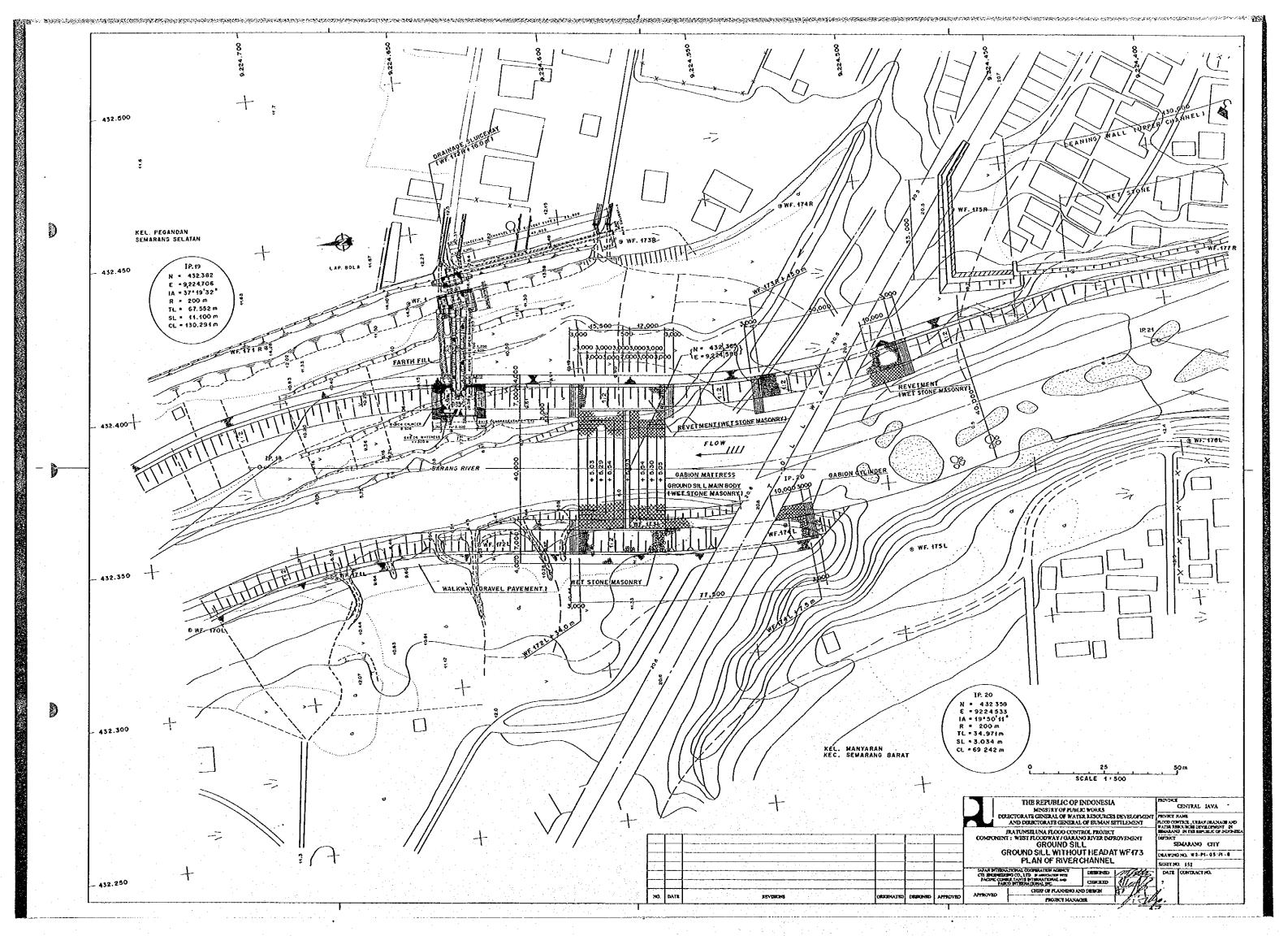
LIAM PRESUMBAL CONTRALITY ASSECT

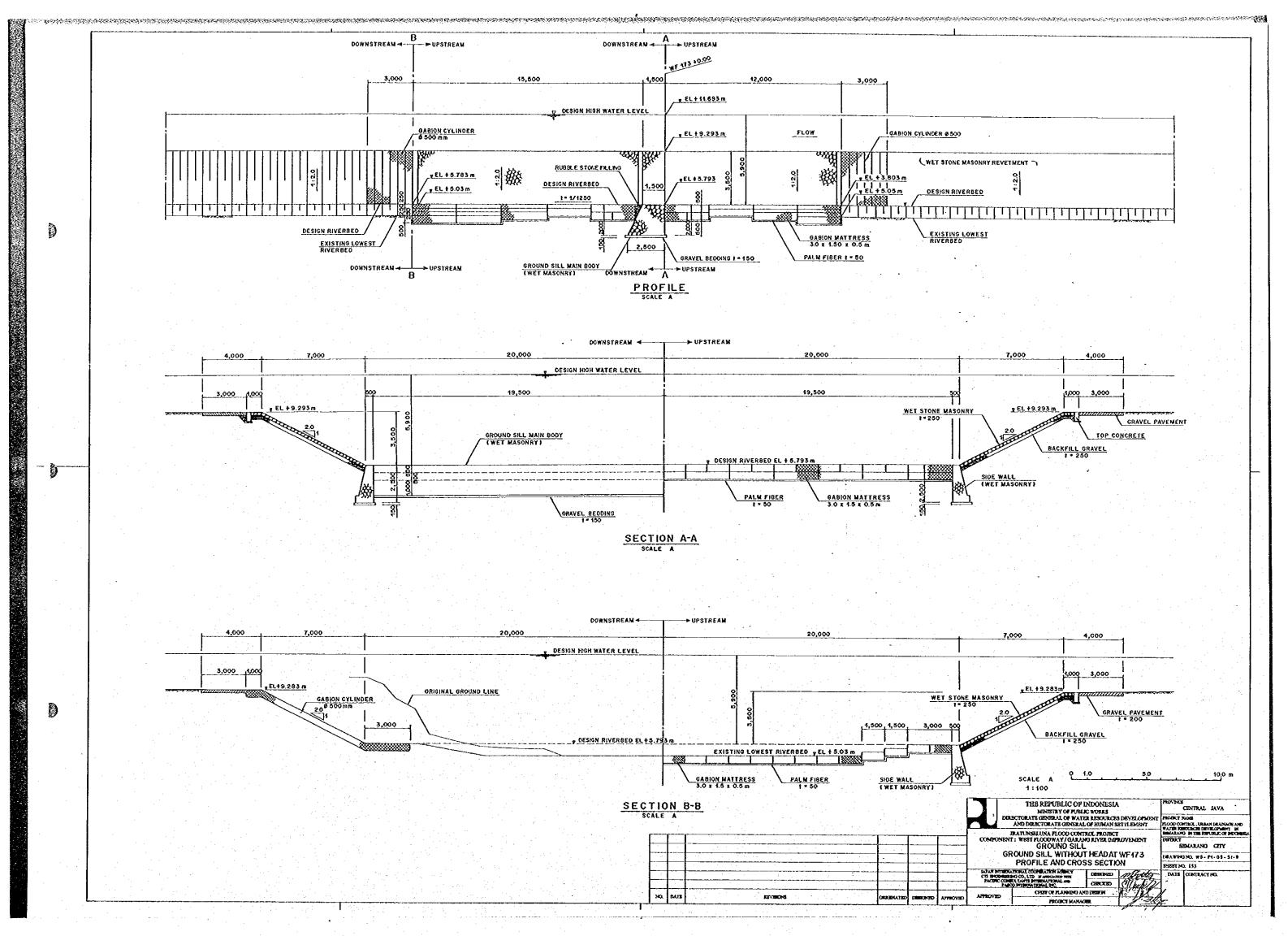
LIST OF DATE OF THE PROJECT OF

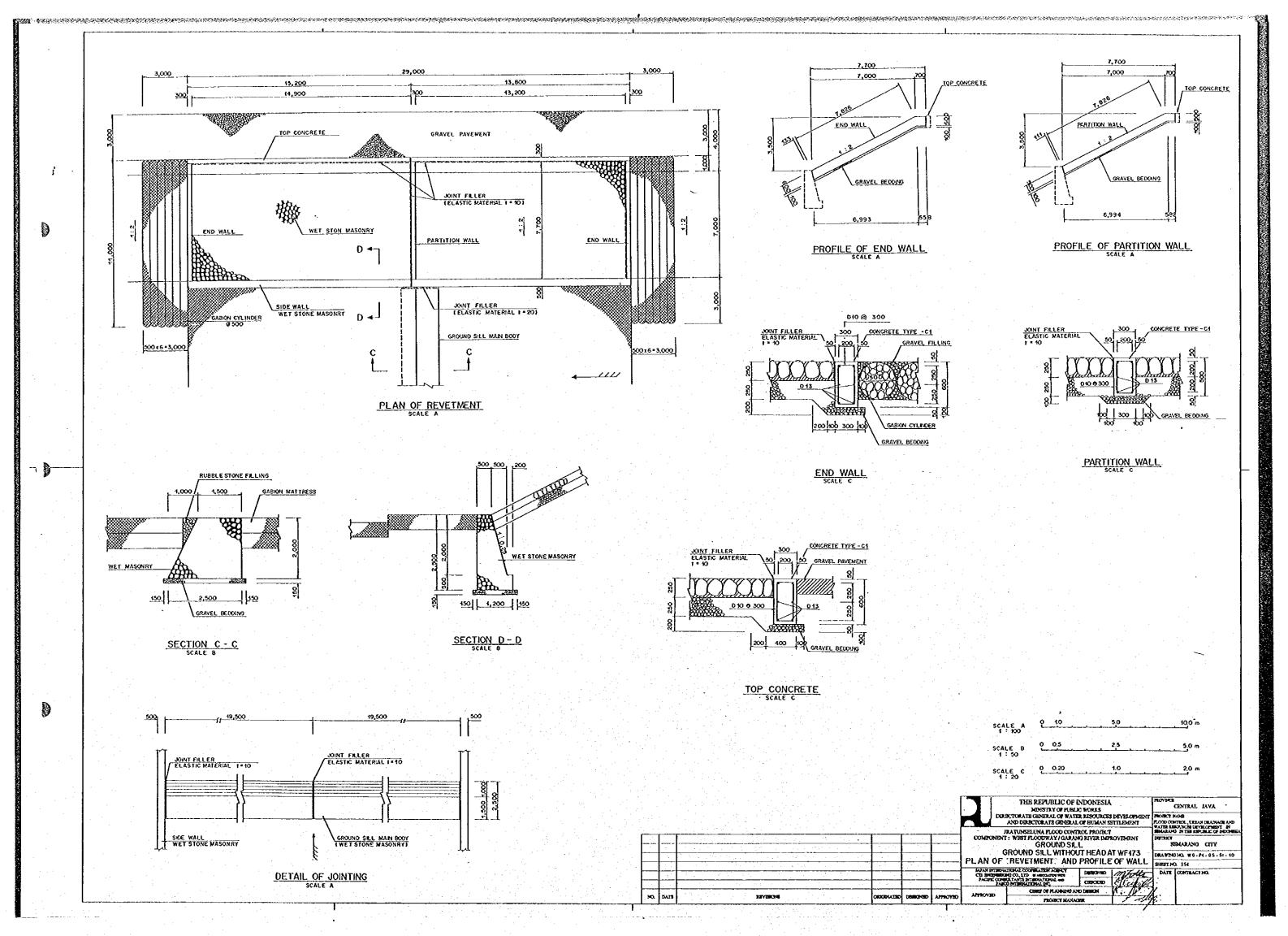
SHEET NO. [5] DATE CONTRACT NO.

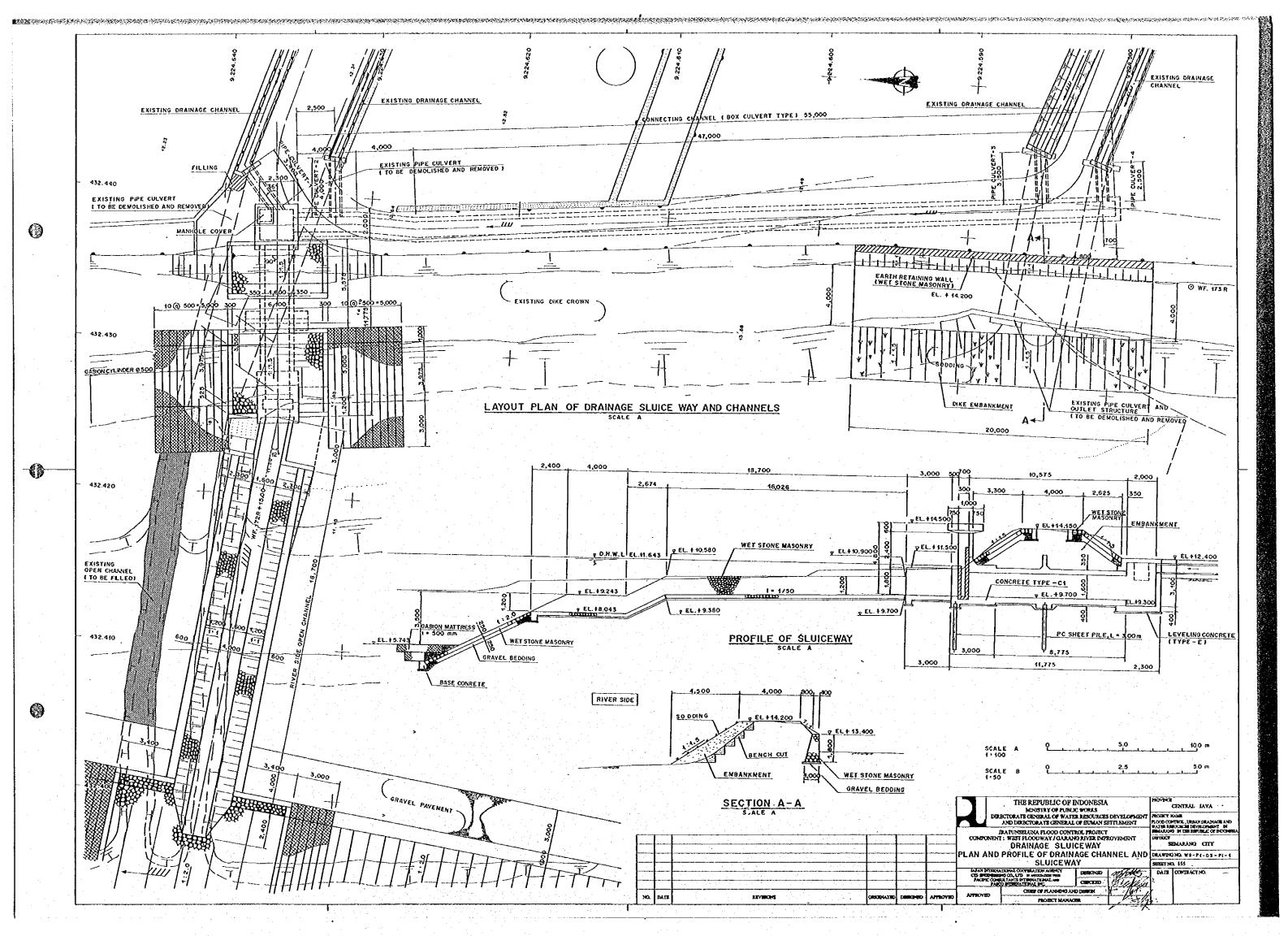
CENTRAL SAVA

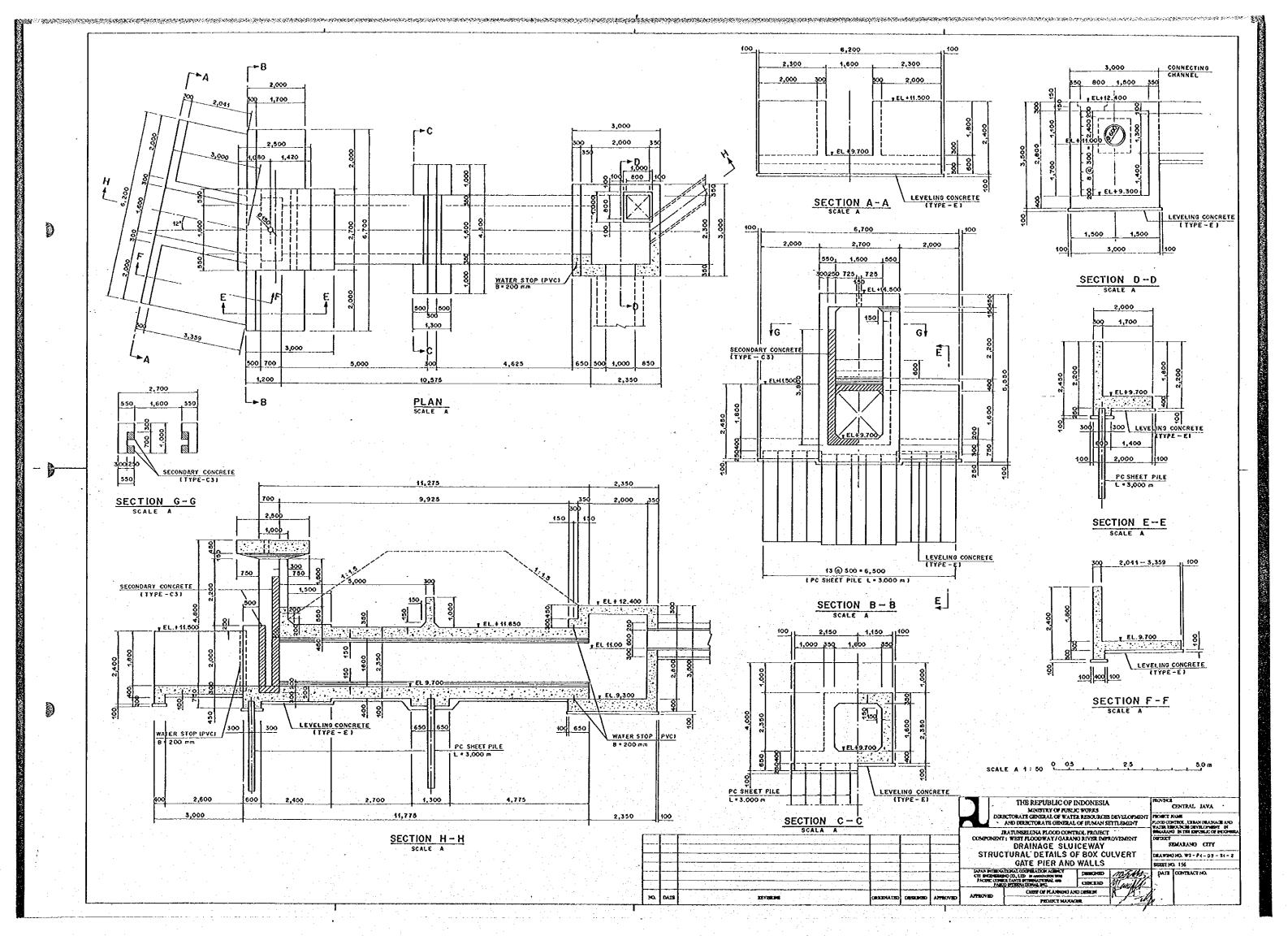
DRAWING NO. WG-PI-GS-RI-F

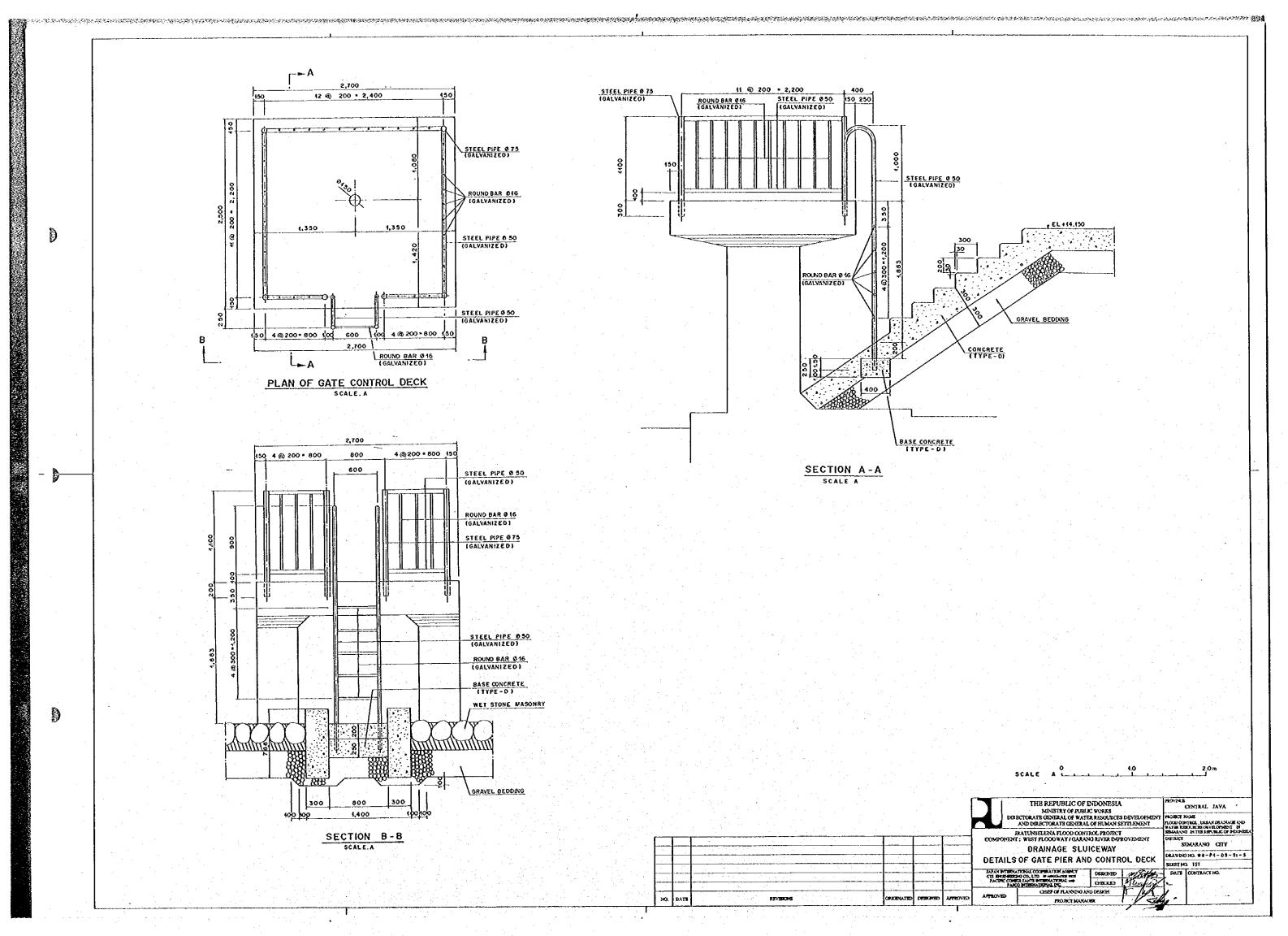


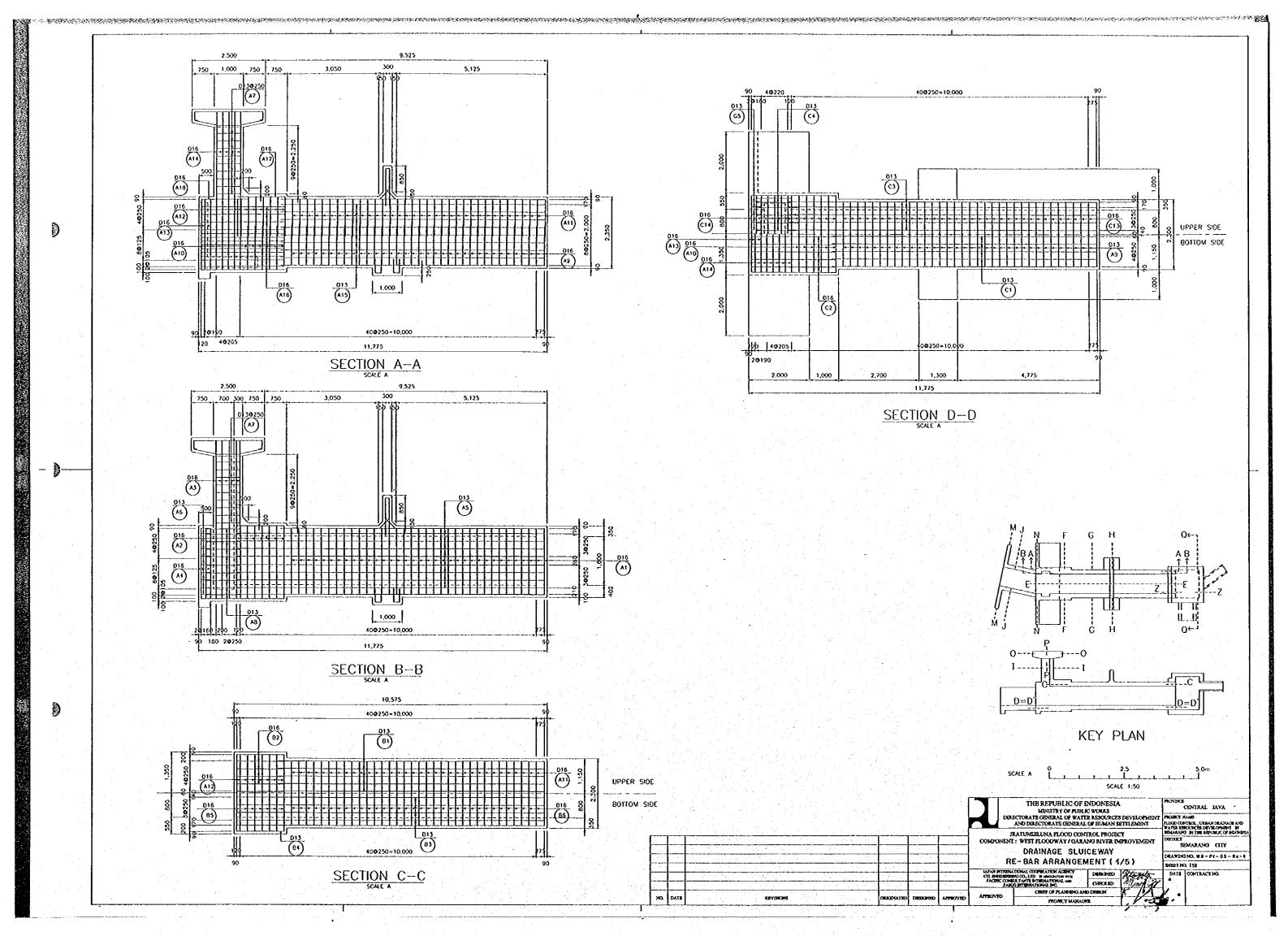


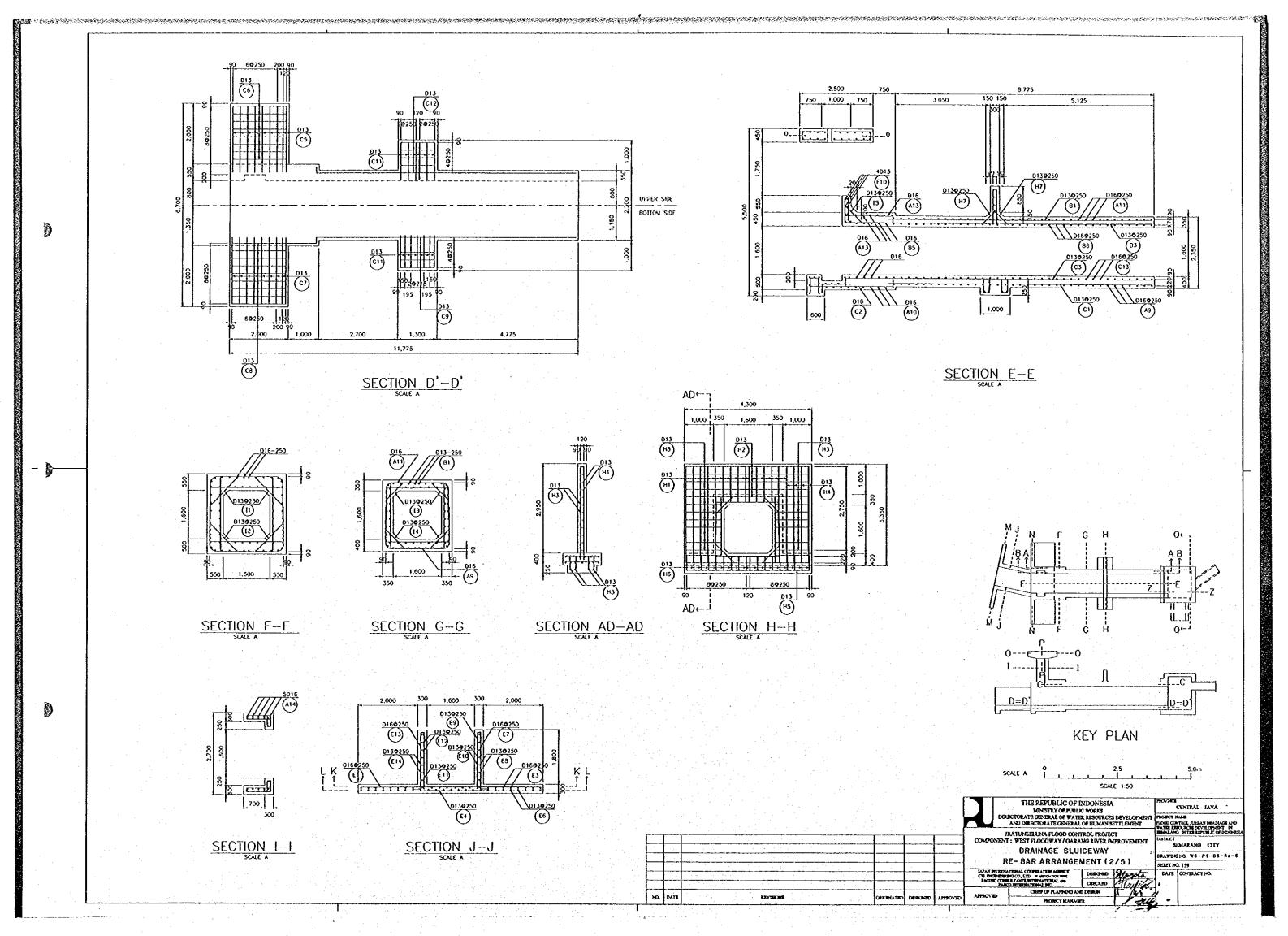


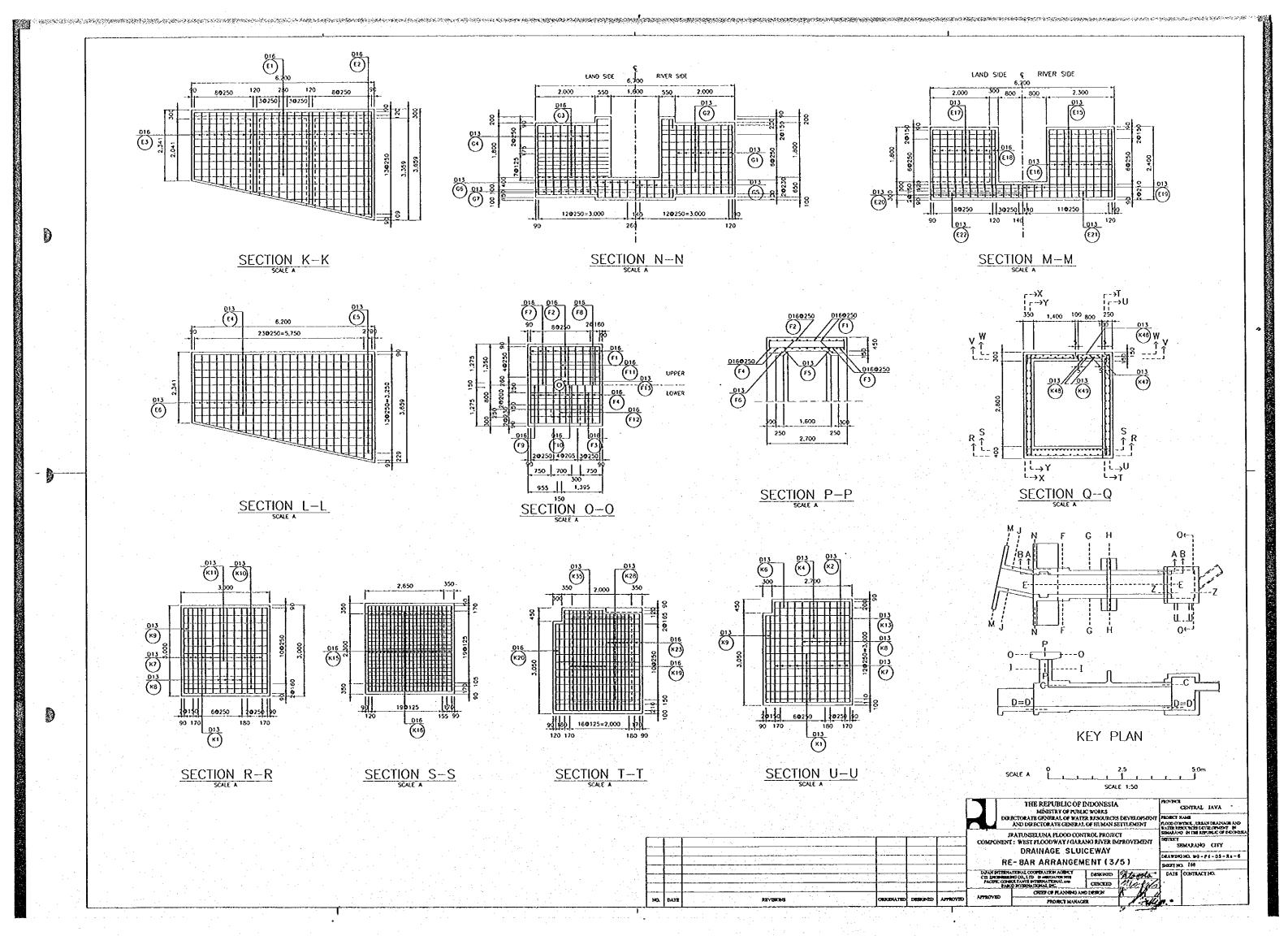


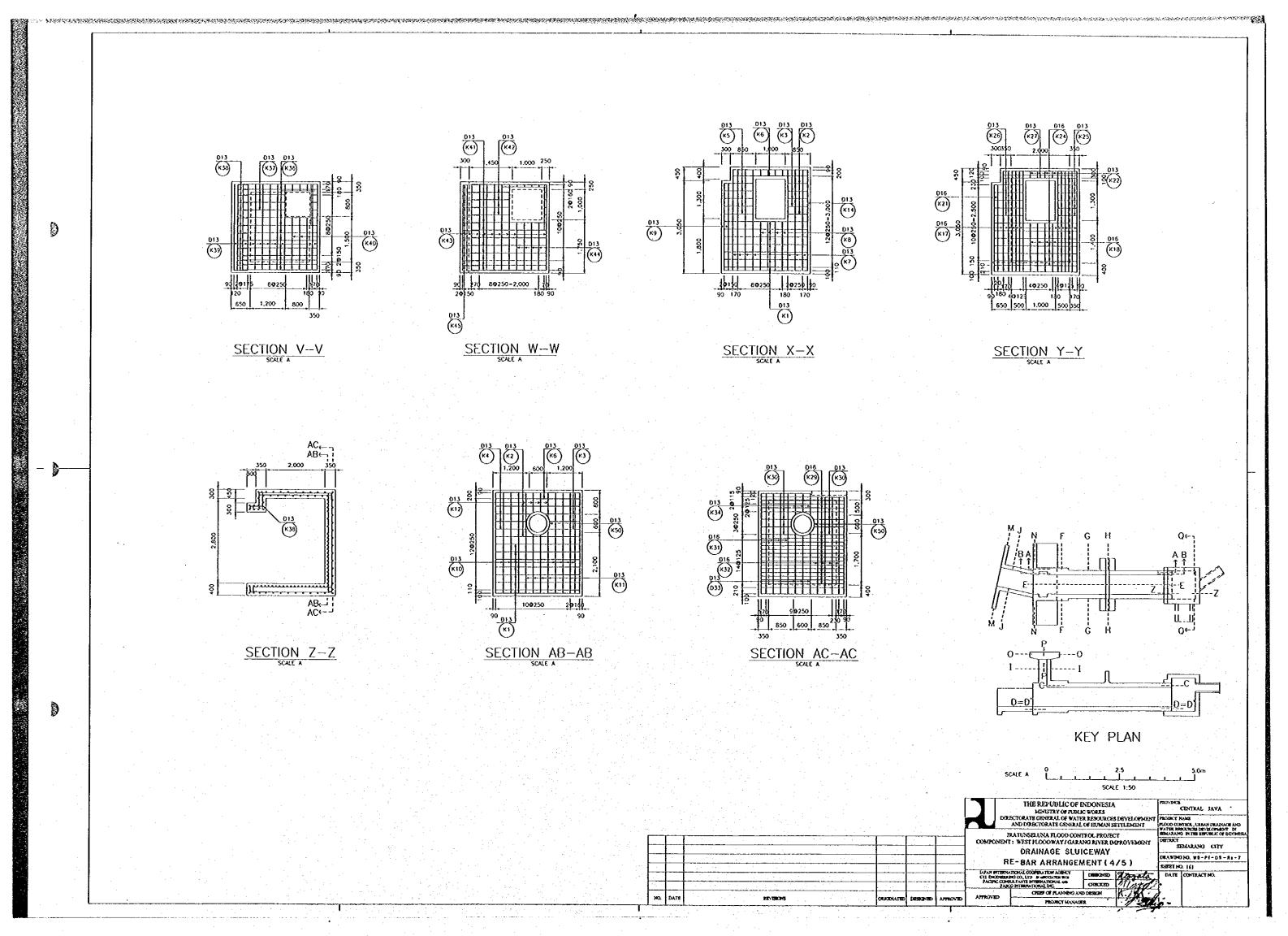












DIA (mm)	(mm)	(ww)	(mm)	(mm)	LENGTH OF BAR (mm)	REO'D UNIT	TOTAL LENGTH	UNIT WEIGHT (kg/m)	WEICHT (kg)	SHAPE	PEWAR
D16	2160	-	-	 -	2160	70	151200	1.58	238,835	0	
D16	2460	_	-	-	2450	10	24600	1,58	38.868	0	
016	5110	-	-	-	5110	12	61320	1.58	96,886	0	
D16	2310	-	-	-	2310	8	18450	1.58	29,193	10	1
		400			19729	12	12840	1.04	133.785		
D13	320	400	200	-	970	18	16560	1.04	17,222	٥١٥	
	ļ	ł	<u> </u>	120	 -	18	-		43 045		
-	<u></u>		_	_			ļ	 			
_			-		- -	ļ		-			
			-	-							
					i	İ	-	1	l		
		<u> </u>	-	-							ļ
D16			-	-		 					
	2310	2520		-	7140	3	21420	1.58	33.844		<u> </u>
	5110	1520		-	13250	5	65300	1,58			
013	8850		- 	- 	8350	8	70800	1.04	73.632		<u> </u>
D16	2820	500	- 	-	3320	15	49300	1,58	78,684	bl_0	
D16	2320		-	-	2320	2	4540	1.55	7.3312	e	
016	900	-	-	-	900	2	1800	1.58	2.844	_a_	
013	8835	-		-	8835	10	88350	1,04	91,884	_o_	
016	2820	-	-		2820	12	33840	1,58	53,457	_0_	1
013	11595	-	-	-	11520	10	115950	1,04	120.588	ьо	
016	2820	-	-		2820	2	5840	1,58	8,911		l
016	2520		-	-	2520	8	20150	1,58	31,853	s	
015	2120	-			2120	35	74200	1,58	117.235	0	
	<u> </u>			_		10				-	1
			_					·			}
			-							ļ	
013			-	-							ļ
D13	1180	-	-	-	1180	12		1,04			
013	2129	-		-	2120		38160	1,04	39,686	e	_
013	1820	-	-	-	1820	16	29120	1,04	30.285	e	
			<u>-</u>		2210	18	39780	 	41,371		
D13	1820	400	-		2220	18	39360	1.04	41,558	<u> </u>	<u> </u>
D13	1120	-		-	1120	8 .	8950	1.04	9.318		
013	1170	<u> </u>	- 	- 	1170	14	16330	1,04	17,035		
013	1170	-	-	-	1170	12	14049	1.04	14,602		
013	1120	-	-	-	1120	8	8360	1,04	9.318		
016	2120	-	-	-	2120	35	74200	1.58	117.236		
D16	2520	-	-		2570	16	40320	1.58	63.766	_•_	
016	5020	-	-	-	5020	10	60200	1,58	95.115	o	
015		-	_	-				l			0:vories
				-		<u> </u>					†
					i						<u> </u>
		_ :		_		 					-
											-
		500		-				l			
											
013	3054	-	-	-	3054	9	27456	1,04	28,585		ļ
	· · · · · ·	L	l	l	l	<u> </u>	<u> </u>	<u> </u>		<u> </u>	L
٠								29		**	
							*				
	(mm) D16 D16 D16 D16 D17 D17 D17 D18 D18 D19 D19 D19 D19 D19 D19	(mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm)	(mm) (mm)	(mm) (mm)							

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					L	.IST (OF R	EINF	ORCE	MENT		···	
	BAR Vark	D:A (mm)	(mxn)	(ww)	(m/m)	ල් (mm)	LENGTH OF BAR (mm)	NO REO'D UNIT	TOTAL LENGTH	UAIT WEICHT (kg/m)	MEICHT (+3)	SHAPE	REMARK
ı	£9	013	2010	-	-	-	2010	13	26130	1.04	27,175	ļo	
Ì	E10	013	2990	ļ-	-	-	2990	9	26910	1.04	27.986	9	
Ì	£11	013	2010		-	-	2010	12	24120	1,04	25,085	lo	
Ì	£12	013	2650	-	-		2650	9	23850	1,04	24.804		_
ı	E13	015	2010		-		2010	11	22110	1,58	34,934		ļ
Ì	E14	013	2586	_	 -	_	2586	9	23274	1.04	24,205		
ŀ	E15	013	2120	~		-	2120	20	42400	1,04	44,095	bl_0_	
ŀ	£ 15	013	2210		 -	_	2210	16	35360	1,04	36,774		
ŀ	E17	013	2120				2120	16	33920	1,04	35,277		
ŀ	E18	D16	1,910	500	-		2410	16	38560	1.58	60,925		
ŀ	E19	013	410				410	7	2870	1,04	2,988	ু হ	
- 1	£20	013	410				410	27	11070	1,04	11.513	º	
-	E21	013	6020				6020	2	12040	 -		· · · · · · · · · · · · · · · · · · ·	
ŀ	E22	013	5020				6020	2	12040	1.04	12.523		
ŀ				-					 	<u> </u>	12,523		<u></u>
-	f1	016	2520	500		-	3520	10	35205	1,58	55.616	4 10	
	£5	016	2320	-	-	-	2320	10	23200	1,58	36,656	<u></u>	ļ
-	F3	0:6	2520	-	-	-	2520	12	30240	1,58	47,779		
-	F4	015	2320	-	<u> -</u>	-	2320	10	23200	1,58	36,656		
ļ	F\$	013	370	345			715	11	785\$	1,06	8,180	<i>م</i> ہ۔	b: varies
ļ	F6	013	2320		-	-	2320	2	4640	1,06	4,827		
Į	F)	016	775		-	-	775	1 .	775	1,58	1.225	9	
	F8	015	1215	-	-	•	1215	1	1215	1,58	1,920		
	F9	D15	775	-	-		775	1	775	1,58	1,225	·e	
L	F10	016	1215	-	-	-	1215	1	1215	1,58	1,920		
	F11	016	1,140	500	-	-	1640	2	3280	1.58	5,162	- ^ }	
	F12	016	1,095	500	-	-	1,595	2	3190	1,58	5.040	jo	
1	F13	013	1237	-	-	-	1237	2	2474	1,04	2,573	O°	R=330mm
	ĢI	013	2270		-	-	2270	16	36320	3.04	37.773		
Ī	G2	013	2370	200	-	~	2570	15	41120	1,04	42,765	b <u> 0</u>	
Ì	မ	016	2370		-		2370	22	52140	1.58	82.381		
Ì	G¢	013	2020	-	-	-	2020	16	32320	1,04	33.514	_a_	
1	G5	013	560	200	-	-	760	7	5320	1,04	5,533	ماه	
1	G5	D±3	560	-	-	-	560	11	6160	1.04	6,406	_a_	<u> </u>
Ì	G7	013	450	_	-	-	450	16	7360	1,04	7,654		
1	H1	013	200	1170	120	-	2,860	10	28600	1.04	29,744	b ^C b	<u></u>
ł	н2	-	4120	-		_	4120	8	32950	1,04	34.278	_a	
ŀ	/12 H3	013		1170	120	<u>.</u> .	2850	16	45760	1.04	47,590	alge	
ŀ	H4	-	200	3170	-		3370	16	53920	1.04	56,075	ه اه	
ŀ	H5		4120	-	-		4120	4	16480	1,04	17,139	6	
ŀ	P6	013		195	-	_	1135	18	20430	1.04	21,2472	d o	<u> </u>
1	н7			-	<u> </u>	-	 	<u> </u>		-		<u> </u>	
ŀ	H/	013	432 1.258	·	<u> </u>	<u> </u>	1,258	30 15	12950	1,04	13,478		ļ
ŀ	12		1,188	-	ļ <u> </u>			<u> </u>	20128	1.04	20,933		 -
.	13		693	-		-	1.168	26	30888	1.04	32,124		
ŀ	14	013		- 1	-	-	693 764	35	25020	1.04	25,945	e	ļ
ŀ				!	<u> </u>	ļ		36	27504	1.04	28,604		ļ
ŀ	15		905	-	-	-	905	8	7240	1,04	2,530	ر <u>م</u>	
ŀ	K1	013	-	2820	120		8700	8	59500	1.04	72,384	وليان	ļ
ŀ	K2	013		2320	120	670	6430	2	12850	1,04	13,374		
Į	K3	013	670	1065		L	1735	3	\$205	1.04	5.413	a b	bivaries

				ŧ.	IST (OF R	EINFO	ORCE	MENT	•		
BAR WARK	DIA (mm)	(m/ii)	(mm)	(mvn)	d (mm)	LENGTH OF BAR (mm)	NO REO'D UNIT	TOTAL LENGTH	UNIT WEIGHT (kg/m)	WEIGHT (kg)	SHAPE	REMARK
K4	D13	3820	1065	120	-	4005	3	12015	1.04	12,495	دري٩	bivories
K5	013	970	120	-	-	1090	5	5450	1.04	5,668	하 . o	
K6	013	2820	2520	-	-	7850	3	2380	1.04	24,523	<u>,</u> b]°	
K7	013	2820	3310	-	-	9440	7	66080	1.04	68.723	٥١٥	
×8	013	2820	3310	1610	+	7740	4	30950	1,04	32,193	درواه	
к9	013	2820	2860	-	-	8540	2	17080	1.04	17.763	β ^o p	
K10	013	2820	3310	250	-	6350	7	44450	1,04	45,228	વ <u>ુ</u> ષ	
KII	013	2820	1010	220	-	4050	4	1620	1,04	15.843	حوا≎	b:vories
K12	013	800	-	-	-	800	3	2490	1,04	2,459	<u> </u>	a:vories
K13	D13	3310	400	-	-	3710	1	3710	1,04	3,858	P	
K14	013	3310	400	- "	-	3710	1	3710	1,04	3,858		
K15	015	2820	-	-	-	2820	55	62040	1,58	93.023	a	
K16	016	2700	-	-	-	2700	21	56700	1.58	89.586	a	
K17	D16	3310	-	-	-	3310	12	39720	1.58	52,757	a	
K18	016	1510	-	-	-	1610	4	6440	1.58	10,175	_9	
X19	016	3310	-	-	-	3310	10	33100	1,58	52.295		
K20	016	2810		-	-	2810	2	5620	1,58	8,880		
K21	016	2810	-	-	-	2810	2	5520	1,53	8,880		
×22	013	220	-	-	-	220	4	830	1.04	0.915	_a_	
×23	016	3160	170	-	_	3330	9	3330	1,58	5.261	<u>P</u>	
K24	016	2700	-	-		2760	7	18900	1.58	29.862	_a_	
×25	013	670	-	-	-	670	5	3350	1,04	3.484		
×26	013	850	_	-		850	5	4250	1.04	4,420	a	
X27	013	2520		-	-	2520	ī	2520	1,04	2,621		
K28	013	2700	-	-	-	2700	11	29700	1.04	30,858	_a_	
X29	016	2820	-	-	-	2820	16	45120	1,58	71,290		
x30	013	1080	-	-	-	1080	8	8540	1,04	8,936		overies
X31	016	3310	-	-		3310	3	9930	1,58	15,689	_0_	
K32	016	3160	170	-	-	3330	3	9990	1.58	15.784	_0_	
K33	013	2060	-	-	-	2060	3	6180	1.04	6.427	_a_	govaries
K34	013	770	-	-	-	770	3	2310	1.04	2,492	_0_	otvaries
K35	810	2520	-	-	-	2520	1	2520	1,58	3.982	_a_	
K36	013	2520	-	-	-	2520	9	22580	1,04	23,587	_a_	
K37	013	1420	-	-	-	1420	3	4260	1.04	4.430	a	
K38	013	-579	350	120	200	1240	14	17360	1.04	18.054	ال_ع]،	
к39	D13	2820	34	-	-	3440	12	41230	1,04	42,931	b o b	
K40	013	1720	- :	-	-	1720	3	5160	1,04	3,366	a	
K41	013	2520	310	570	200	3600	9	32400	1,04	33,696	دامي	
X42	013	1270	570	200	-	2640	4	8160	1.04	8.435	٥٥٥	
X43	013	2320	310	-	-	3420	4	37570	1,04	39,125	b b	1
K44	013	1570	310	-	-	1880	4	7520	1.04	7,820	b	
K45	013	470	120		-	590	13	7670	1.04	7,977	A_6	
K45	D13	910	-		-	910	Ś	4556	1.04	4.732	0	
K47	013	910		<u> </u>		910	5	4555	1,04	4,732	e	
K43	013	710	-		-	710	4	2840	1.04	2,954	0	
K49	013	710	-		-	710	4	2840	1,04	2,954	o	
K50	013	2650	- 1.	-	-	2650	2	5300	1,64	5.512	. O•	R≂730rvm

	ou	WEICHT (kg)
taru	013	2473.738
TOTAL	016	2847,009
CRAND TOTAL		5320,747

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	THE REPUBLIC OF INDONESIA
	MENISTRY OF PUBLIC WORKS
4	DIRECTORATE GENERAL OF WATER RESOURCES DEVELO
	AND DIRECTORATE GENERAL OF HUMAN SETTLEME

RATURSZUNA PLOOD CONTROL PROJECT
COMPONENT: WEST PLOODWAY/GARANG RIVER DUPROVEMENT
DRAINAGE SLUICEWAY
RE-BAR ARRANGEMENT (5/5)

LOAN MITERIATIONAL COMPANIAN AGENCY
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