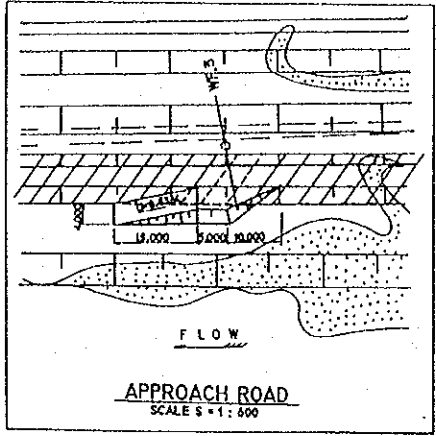


DRAWINGS

CHAPTER 6

DETAILED DESIGN

1A



LAND RECLAMATION AREA (PLANNED)

JAVA SEA

PARAPET WALL AND REVETMENT (WET STONE MASONRY & STONE FACING) L = 570,000

REVETMENT, L = 97,000 (STONE FACING)

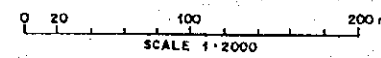
REVETMENT, L = 400,000 (STONE FACING)

Kel. Tawanggililor
KEC. SEMARANG BARAT

KOMPLEK VILA HARMA

BP (W.F.O)
N = 433195
E = 9251859

CHANNEL EXCAVATION (W.F.O - 604.0 m ~ W.F. 96.0.0 L = 5,437 m

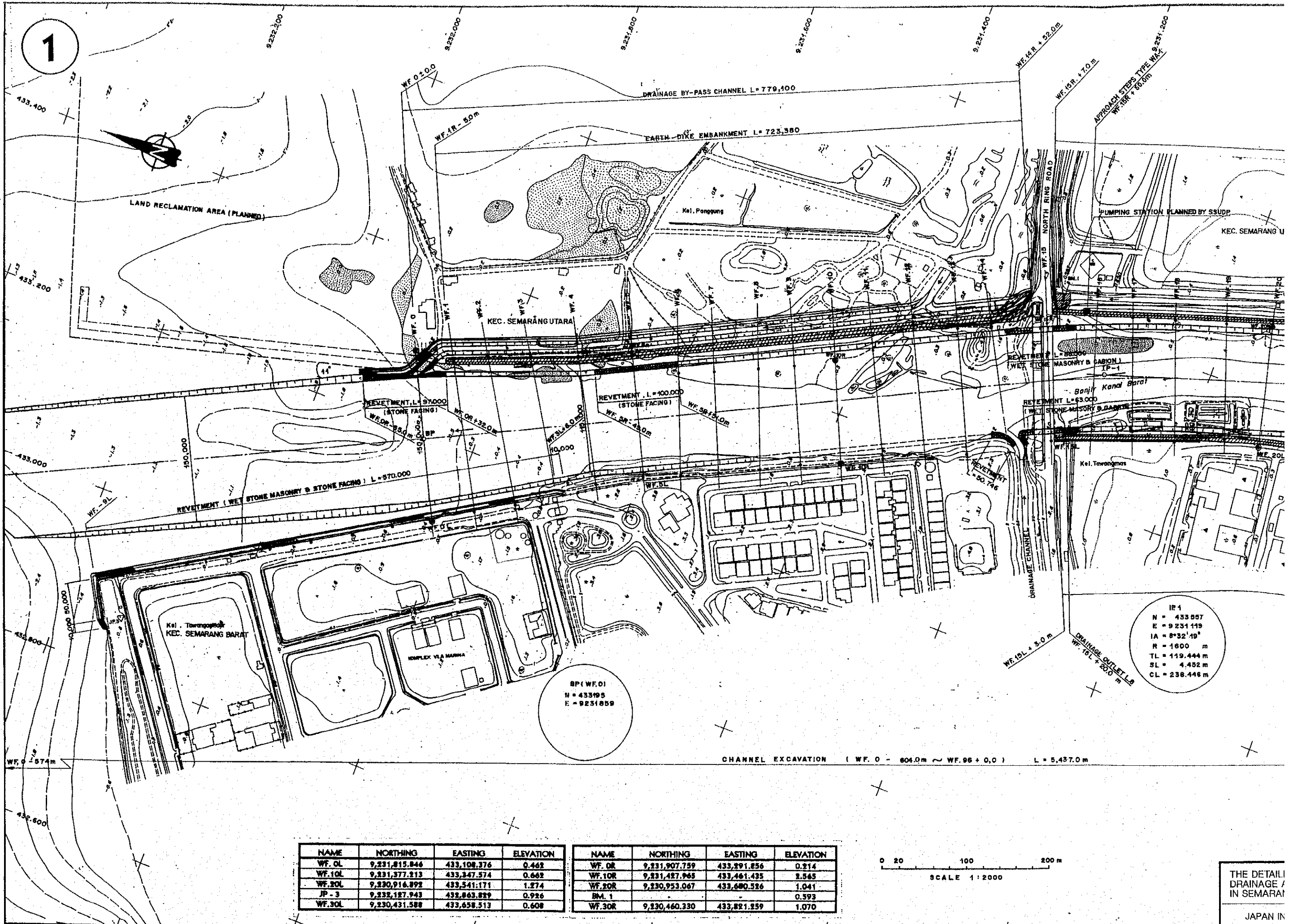


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

D.W.G.6.2.1 (1/4)
PLAN OF WEST FLOODWAY

JAPAN INTERNATIONAL COOPERATION AGENCY

1



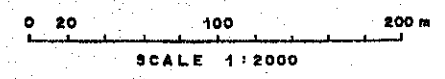
IP 1
 N = 433 557
 E = 9 231 119
 IA = 8°32'19"
 R = 1600 m
 TL = 119.444 m
 SL = 4.482 m
 CL = 238.446 m

BP (WF.0)
 N = 433 195
 E = 923 185

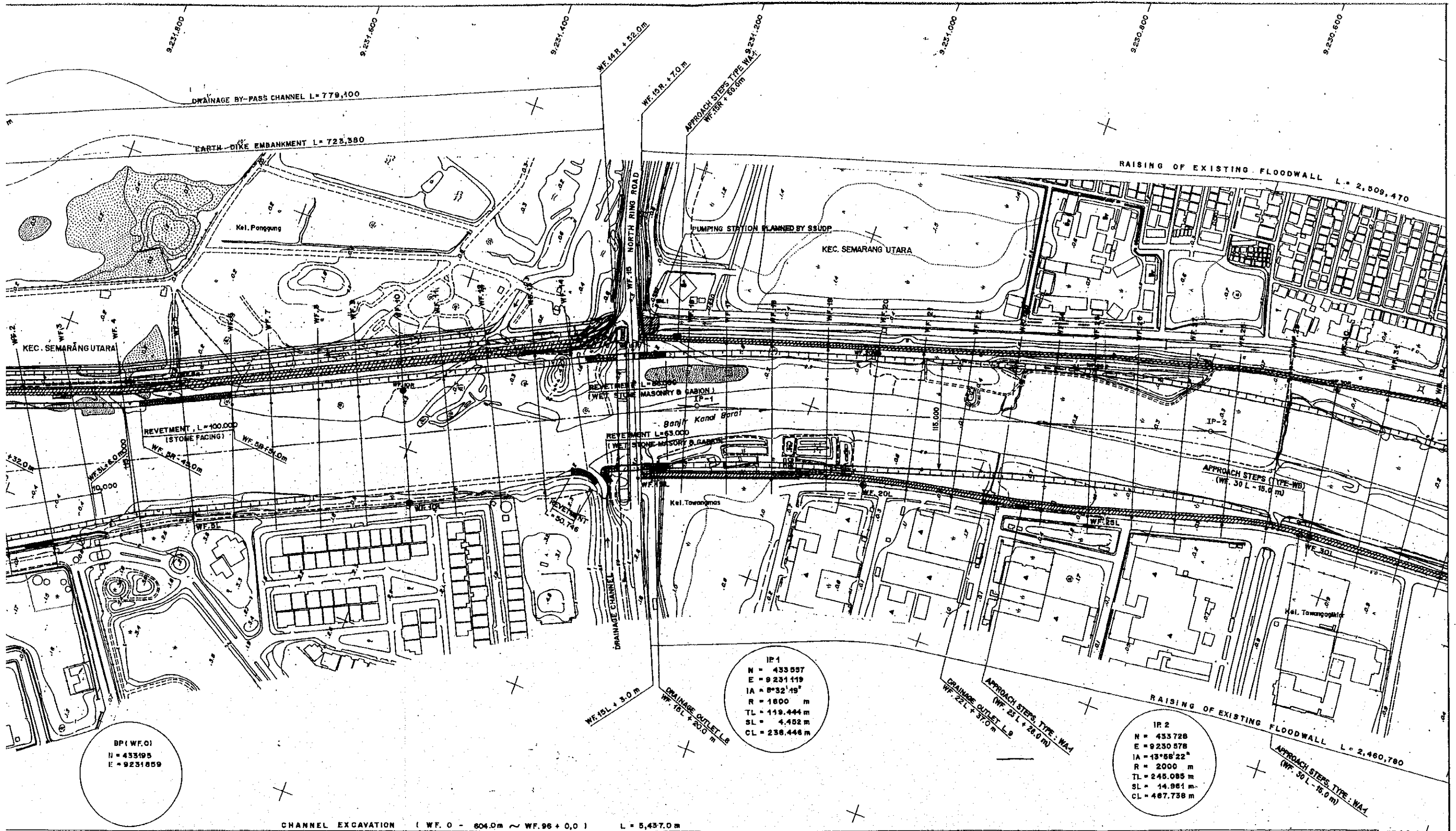
CHANNEL EXCAVATION (WF. 0 - 604.0m ~ WF. 96 + 0.0) L = 5,437.0 m

NAME	NORTHING	EASTING	ELEVATION
WF. 0L	9,231,815.846	433,108.376	0.462
WF. 10L	9,231,377.213	433,347.574	0.662
WF. 20L	9,230,916.892	433,541.171	1.274
JP - 3	9,232,127.943	432,863.829	0.926
WF. 30L	9,230,431.588	433,658.513	0.608

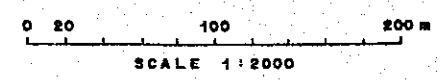
NAME	NORTHING	EASTING	ELEVATION
WF. 0R	9,231,907.759	433,291.256	0.214
WF. 10R	9,231,427.965	433,461.435	2.565
WF. 20R	9,230,953.067	433,680.526	1.041
BM. 1			0.993
WF. 30R	9,230,460.330	433,821.259	1.070



THE DETAIL
 DRAINAGE /
 IN SEMARANG
 JAPAN INC.



ING	ELEVATION	NAME	NORTHING	EASTING	ELEVATION
9.376	0.462	WF.0R	9,231,907.739	433,291.836	0.214
7.574	0.662	WF.10R	9,231,427.965	433,461.435	2.565
1:171	1.274	WF.20R	9,230,953.067	433,680.526	1.041
3.829	0.926	BM. 1			0.593
8.513	0.608	WF.30R	9,230,460.330	433,821.259	1.070



THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

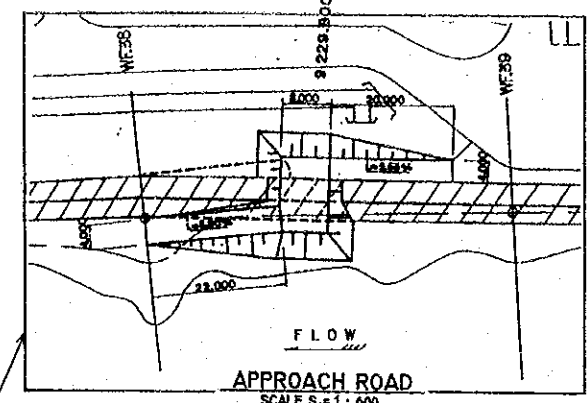
JAPAN INTERNATIONAL COOPERATION AGENCY

DWG. 6.2.1 (2/4)
PLAN OF WEST FLOODWAY

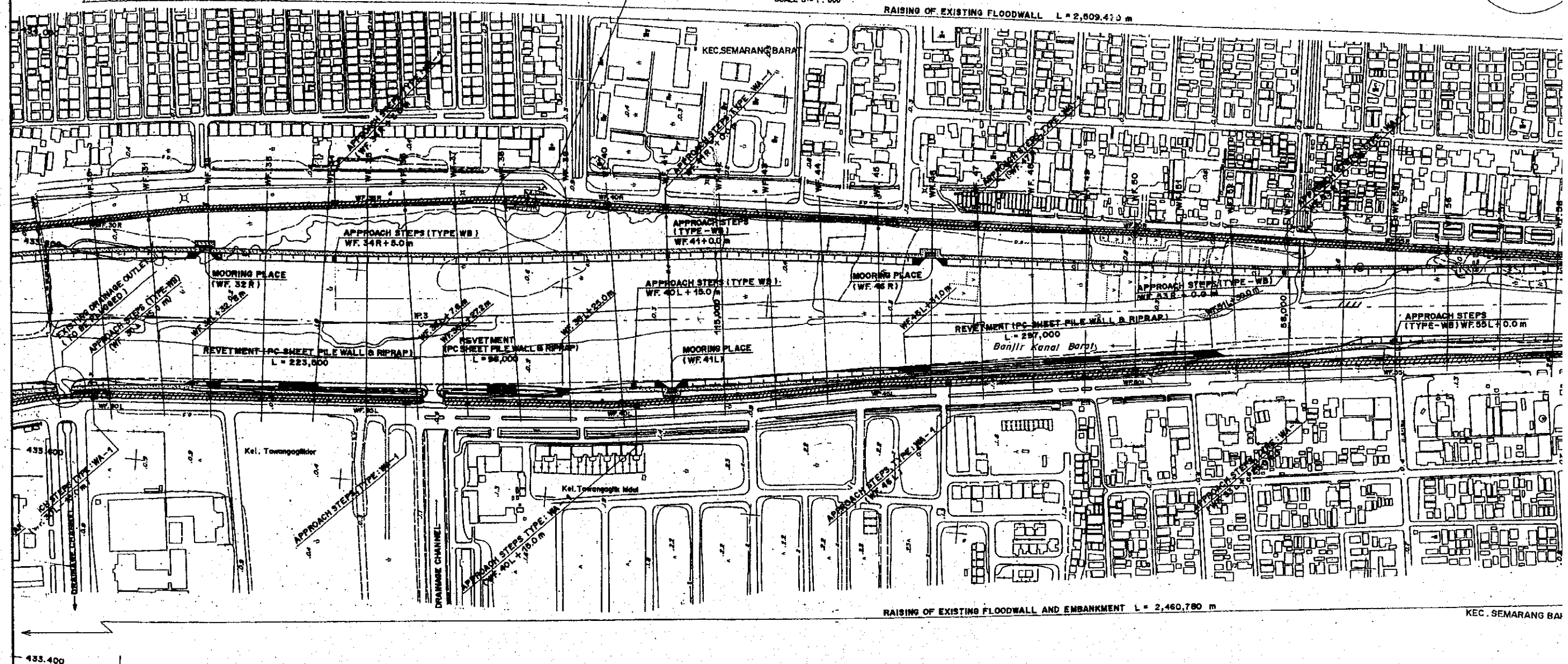
2



IP 3
 N = 433765
 E = 9230145
 IA = 2° 7' 40"
 R = 4000 m
 TL = 74.281 m
 SL = 0.690 m
 CL = 148.544 m



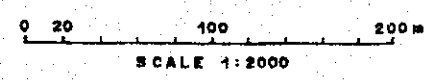
IP 4
 N = 433670
 E = 9229992
 IA = 1° 30' 39"
 R = 4000 m
 TL = 52.744 m
 SL = 0.348 m
 CL = 105.482 m



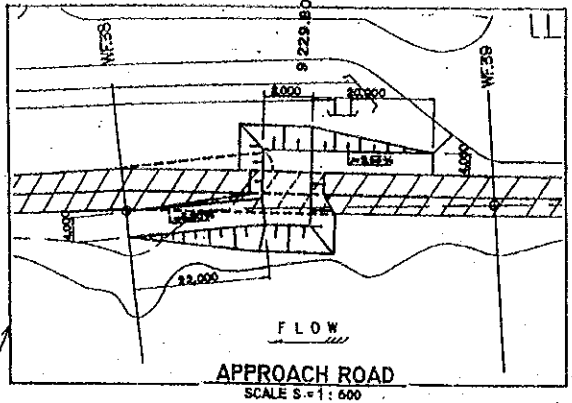
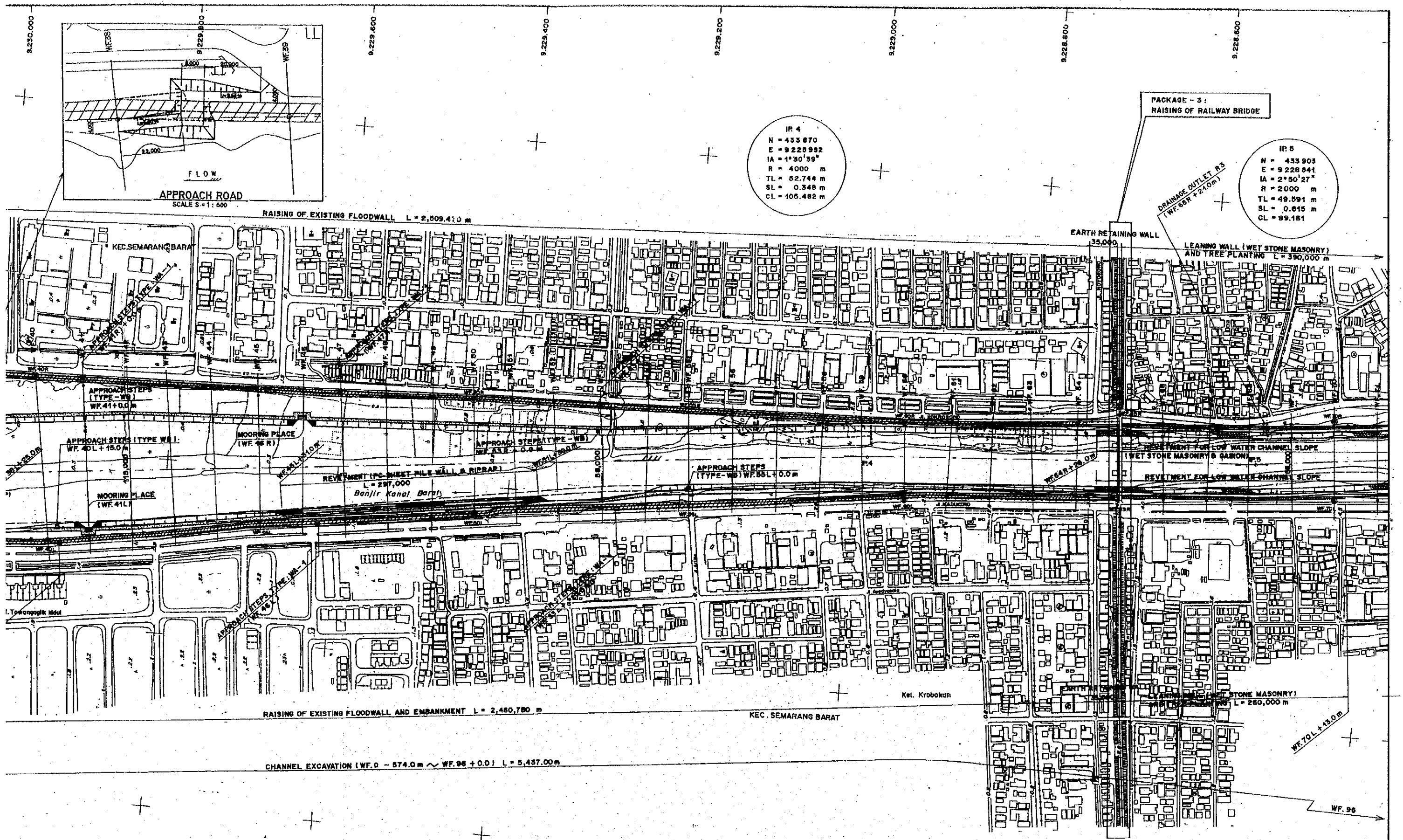
RAISING OF EXISTING FLOODWALL AND EMBANKMENT L = 2,460,780 m

CHANNEL EXCAVATION (WF.0 - 574.0m ~ WF.96 + 0.0) L = 5,437.00m

NAME	NORTHING	EASTING	ELEVATION	NAME	NORTHING	EASTING	ELEVATION
WF.30L	9,230,431.589	433,658.513	0.608	WF.30R	9,230,460.330	433,821.259	1.070
WF.40L	9,229,935.472	433,694.915	1.060	WF.40R	9,229,961.498	433,883.501	1.126
WF.50L	9,229,438.130	433,768.858	2.028	WF.50R	9,229,449.531	433,899.152	1.274
WF.60L	9,228,942.315	433,827.275	2.668	WF.60R	9,228,947.972	433,914.895	2.237
BM.14			0.892	WF.70R	9,228,450.046	433,962.260	3.742
WF.70L	9,228,442.951	433,871.523	4.994				



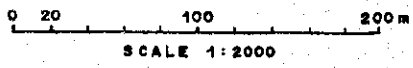
THE DRAIN IN SE



IR 4
 N = 433 870
 E = 9 220 992
 IA = 1° 30' 39"
 R = 4000 m
 TL = 52.744 m
 SL = 0.348 m
 CL = 105.482 m

IR 5
 N = 433 903
 E = 9 228 541
 IA = 2° 50' 27"
 R = 2000 m
 TL = 49.591 m
 SL = 0.615 m
 CL = 99.181 m

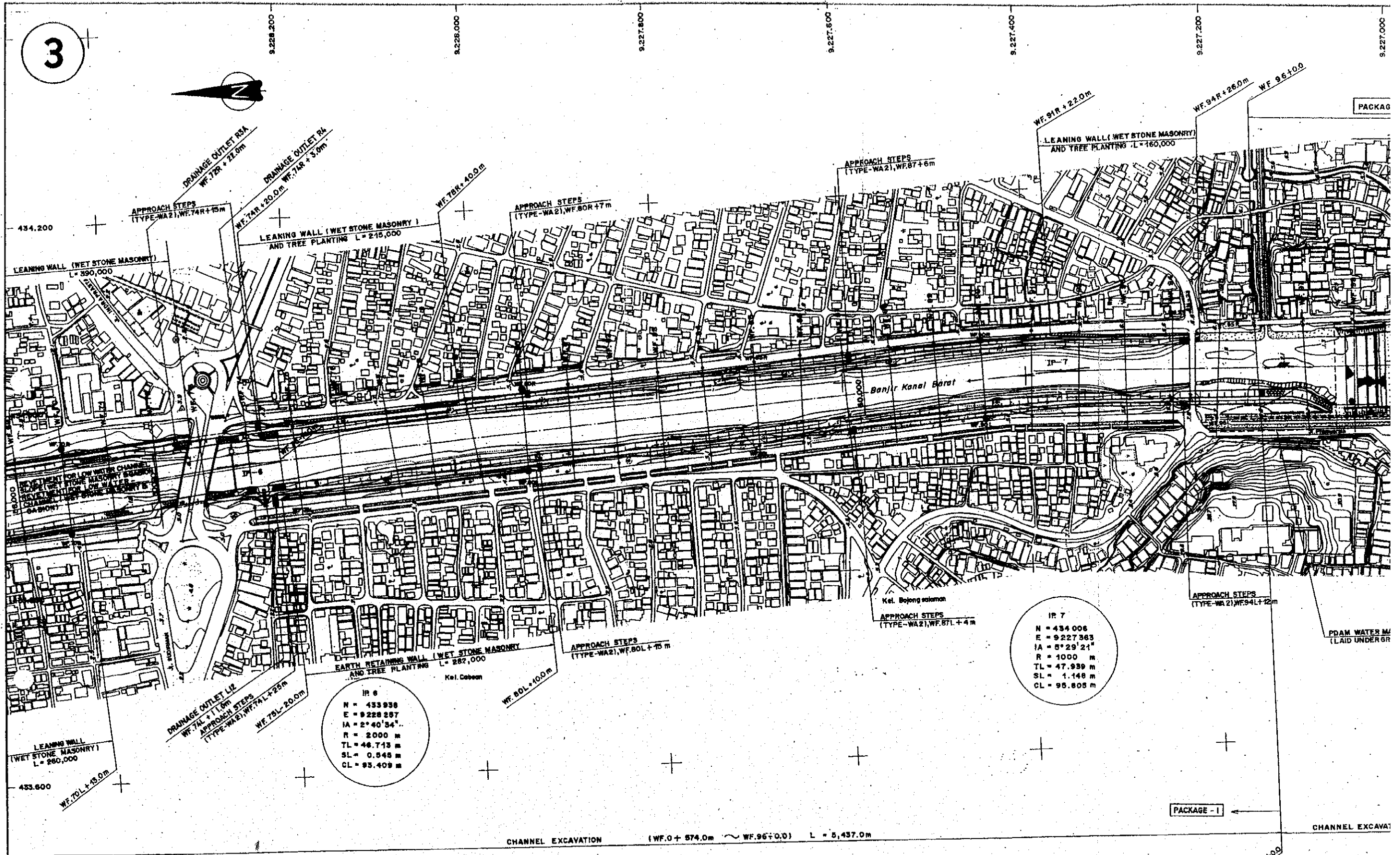
EASTING	ELEVATION
133,821,859	1.070
133,893,501	1.126
133,899,152	1.274
133,914,895	2.237
133,962,260	3.742



THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
 JAPAN INTERNATIONAL COOPERATION AGENCY

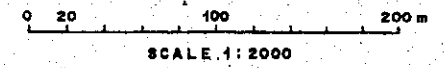
DWG. 6.2.1 (3/4)
 PLAN OF WEST FLOODWAY

3



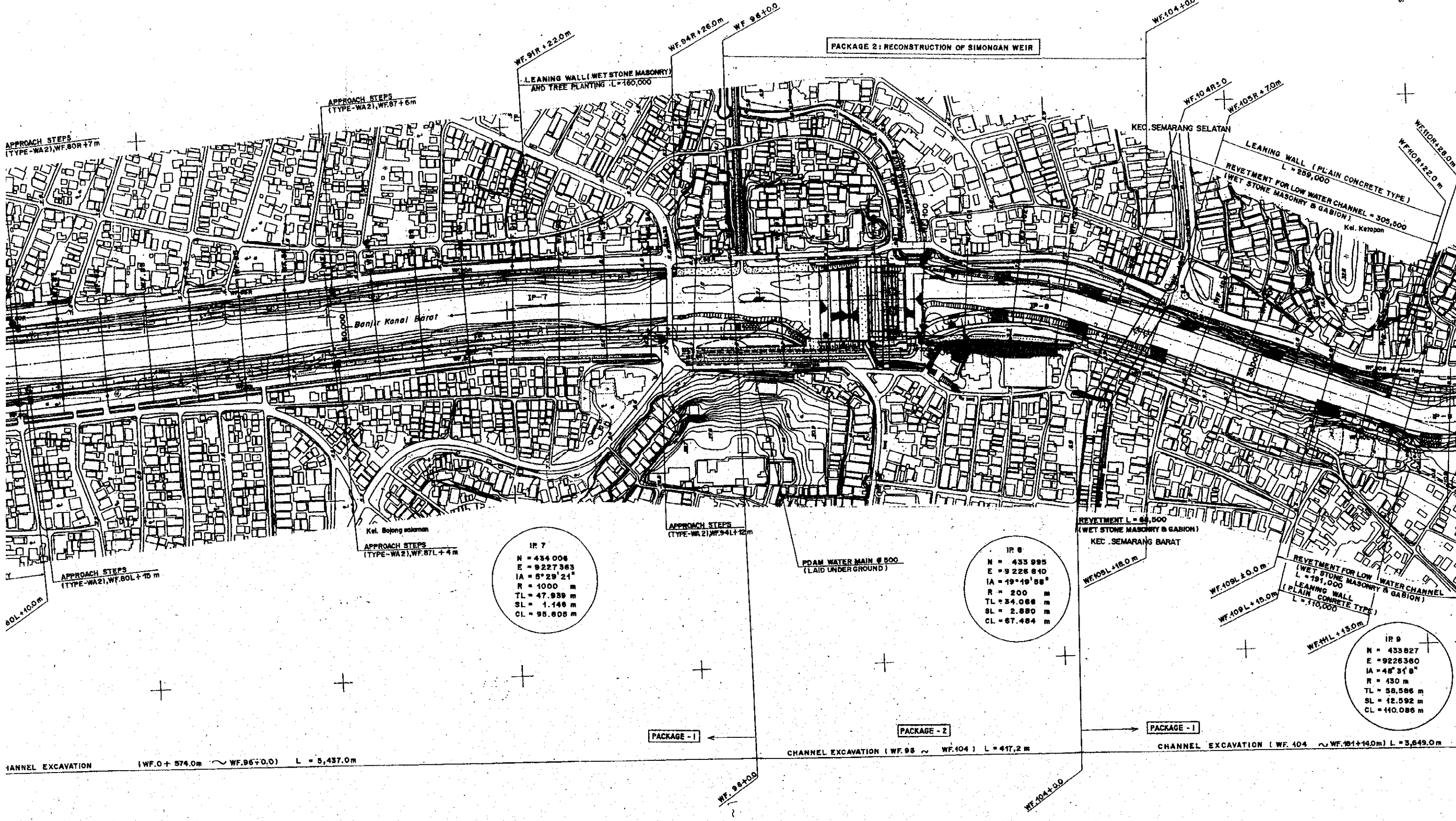
IR 7
 N = 434006
 E = 9227363
 IA = 5°29'21"
 R = 1000 m
 TL = 47.939 m
 SL = 1.148 m
 CL = 95.805 m

NAME	NORTHING	EASTING	ELEVATION	NAME	NORTHING	EASTING	ELEVATION
WF. 70L	9,228,442.951	433,871.523	4.984	WF. 70R	9,228,450.046	433,962.260	3.742
BM. 16			5.023	WF. 80R	9,227,945.059	434,006.342	5.378
WF. 80L	9,227,942.940	433,921.077	4.183	WF. 90R	9,227,447.129	434,039.912	5.924
WF. 90L	9,227,443.773	433,956.295	5.707	BM. 23			6.672
WF. 100L	9,226,945.269	433,949.563	8.634	WF. 100R	9,226,939.702	434,036.468	8.602
WF. 110L	9,226,465.004	433,839.899	14.000	WF. 110R	9,226,445.372	433,895.695	12.604

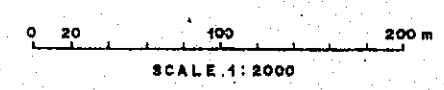


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 IN S

9.227.000 9.227.600 9.227.400 9.227.200 9.227.000 9.226.800 9.226.600 9.226.400



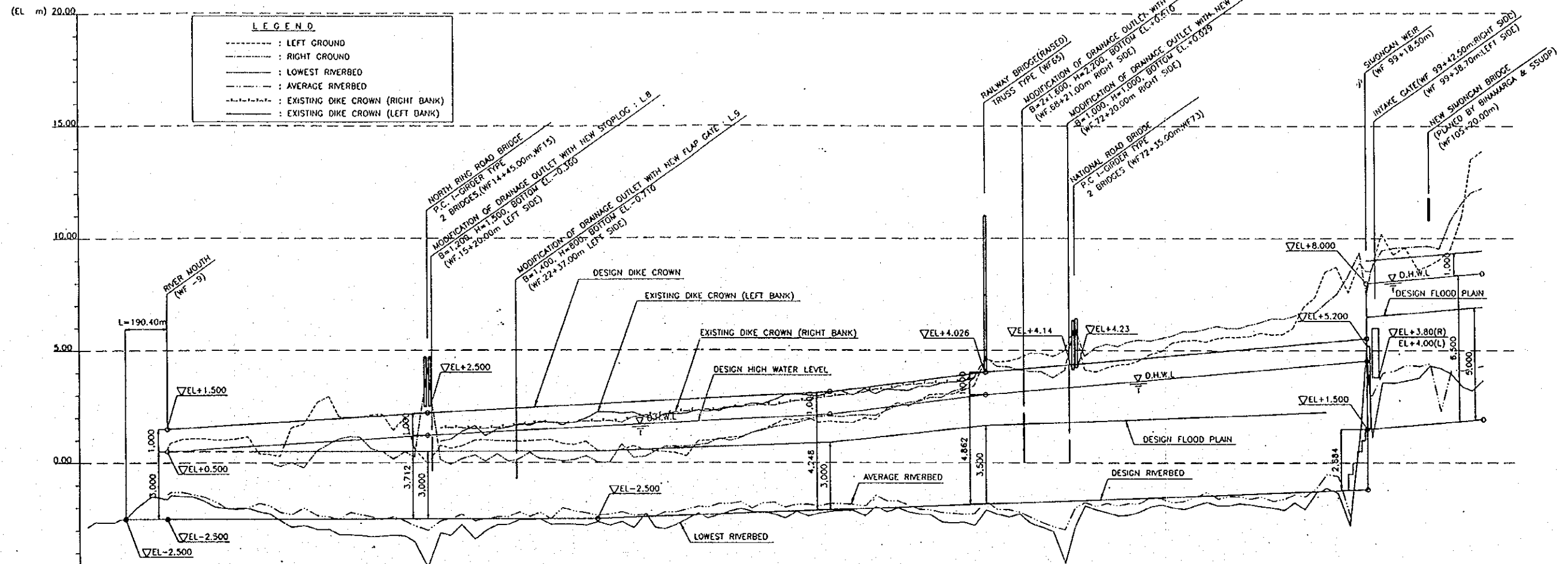
ORTHING	EASTING	ELEVATION
88,430.046	433,962.260	3.742
87,945.059	434,006.242	5.378
87,447.129	434,039.913	5.924
86,939.702	434,036.468	6.672
86,445.572	433,895.695	8.602
		12.604



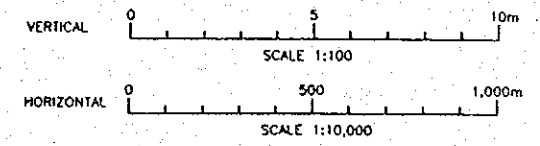
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

DWG. 6.2.1 (4/4)
PLAN OF WEST FLOODWAY

JAPAN INTERNATIONAL COOPERATION AGENCY



GRADIENT OF DESIGN H.W.L.		0.500	$i=1/1650$ $L=1174.38m$	1.212	$i=1/1950$ $L=1822.42m$	2.146	$i=1/800$ $L=703.39m$	3.026	$i=1/1150$ $L=1728.00m$	4.528	$i=1/1250$	
GRADIENT OF DESIGN RIVERBED		-2.500	LEVEL $L=1940.73m$								-1.786	$i=1/1250$
DESIGN ELEVATION	DIKE CROWN	1.500	1.539	1.578	1.617	1.656	1.695	1.734	1.773	1.812	1.851	
	HIGH WATER LEVEL	0.500	0.539	0.578	0.617	0.656	0.695	0.734	0.773	0.812	0.851	
	RIVERBED	-2.500	-2.500	-2.500	-2.500	-2.500	-2.500	-2.500	-2.500	-2.500	-2.500	
EXISTING ELEVATION	RIGHT GROUND	0.00	-0.16	-0.32	-0.48	-0.64	-0.80	-0.96	-1.12	-1.28	-1.44	
	LEFT GROUND	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	LOWEST RIVERBED	-2.50	-2.50	-2.50	-2.50	-2.50	-2.50	-2.50	-2.50	-2.50	-2.50	
	DESIGN RIVERBED	-2.50	-2.50	-2.50	-2.50	-2.50	-2.50	-2.50	-2.50	-2.50	-2.50	
DISTANCE	ACCUMULATED (m)	0.00	194.00	388.00	582.00	776.00	970.00	1164.00	1358.00	1552.00	1746.00	
	PARTIAL (m)	0.00	194.00	194.00	194.00	194.00	194.00	194.00	194.00	194.00	194.00	
STATION NO.		0+00	0+194	0+388	0+582	0+776	0+970	0+1164	0+1358	0+1552	0+1746	



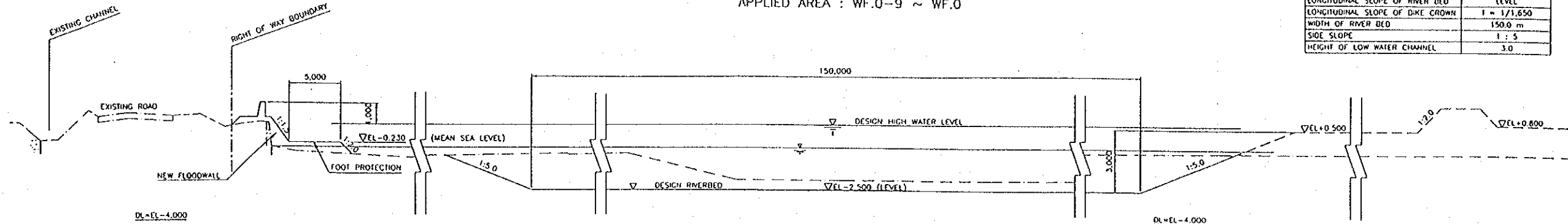
THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

DWG. 6.2.2
LONGITUDINAL PROFILE OF WEST FLOODWAY

JAPAN INTERNATIONAL COOPERATION AGENCY

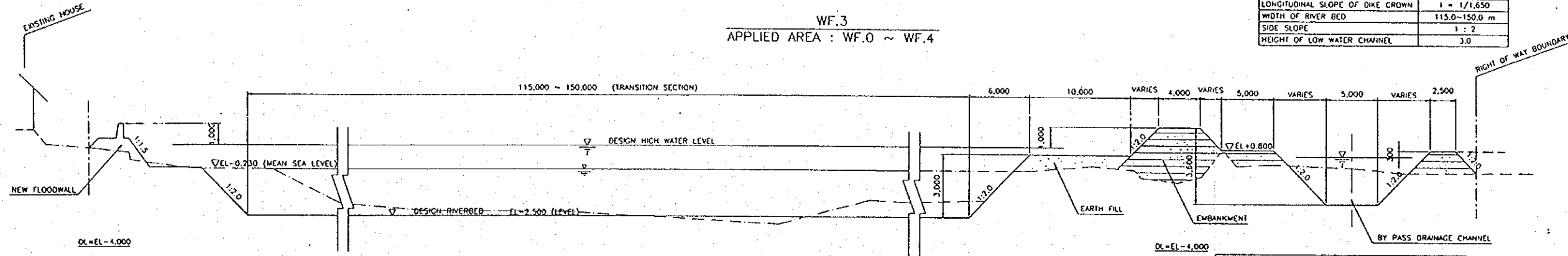
WF.0-3
APPLIED AREA : WF.0-9 ~ WF.0

LENGTH OF RIVER CHANNEL	867.6 m
LONGITUDINAL SLOPE OF RIVER BED	LEVEL
LONGITUDINAL SLOPE OF DIKE CROWN	1 = 1/1,650
WIDTH OF RIVER BED	150.0 m
SIDE SLOPE	1 : 5
HEIGHT OF LOW WATER CHANNEL	3.0



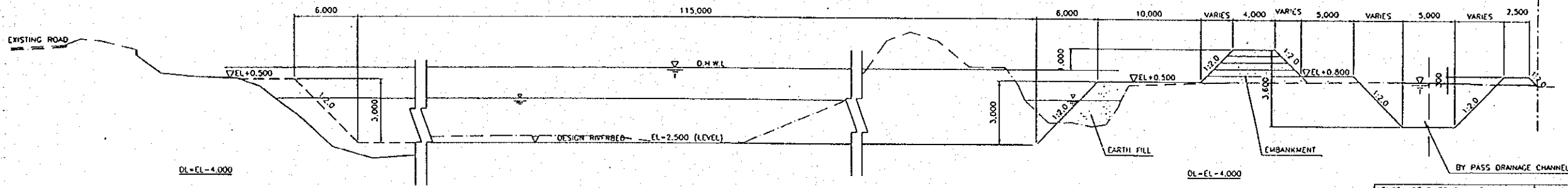
WF.3
APPLIED AREA : WF.0 ~ WF.4

LENGTH OF RIVER CHANNEL	198.25 m
LONGITUDINAL SLOPE OF RIVER BED	LEVEL
LONGITUDINAL SLOPE OF DIKE CROWN	1 = 1/1,650
WIDTH OF RIVER BED	115.0-150.0 m
SIDE SLOPE	1 : 2
HEIGHT OF LOW WATER CHANNEL	3.0



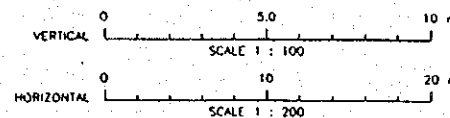
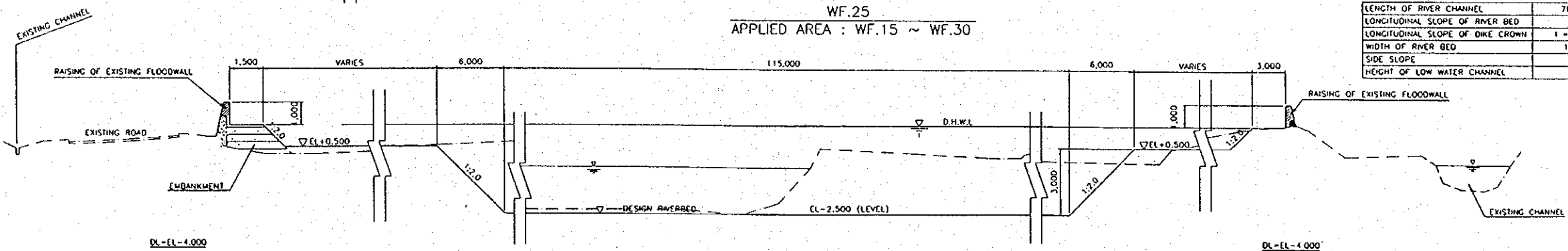
WF.9
APPLIED AREA : WF.4 ~ WF.15

LENGTH OF RIVER CHANNEL	582.53 m
LONGITUDINAL SLOPE OF RIVER BED	LEVEL
LONGITUDINAL SLOPE OF DIKE CROWN	1 = 1/1,650
WIDTH OF RIVER BED	115.0 m
SIDE SLOPE	1 : 2
HEIGHT OF LOW WATER CHANNEL	3.0



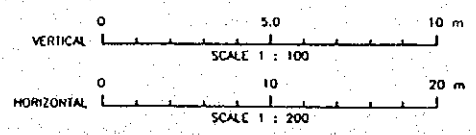
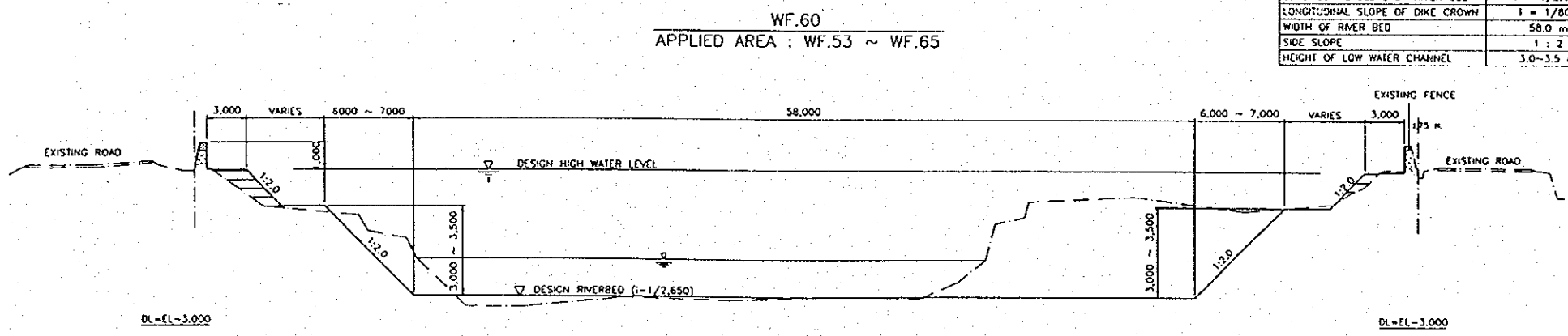
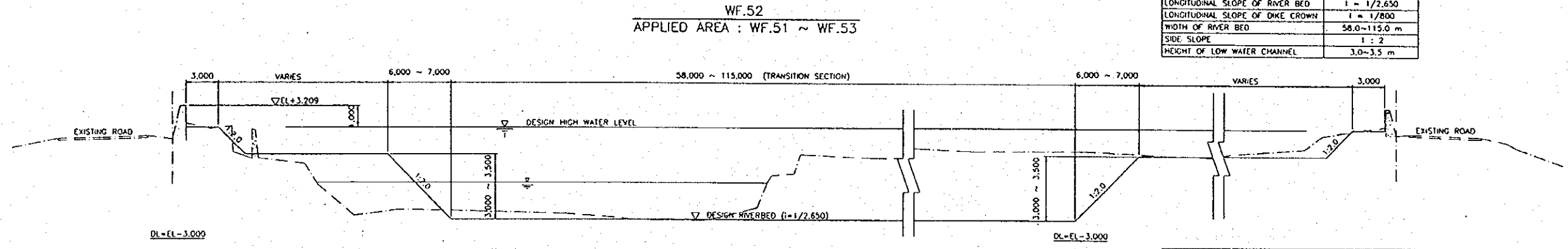
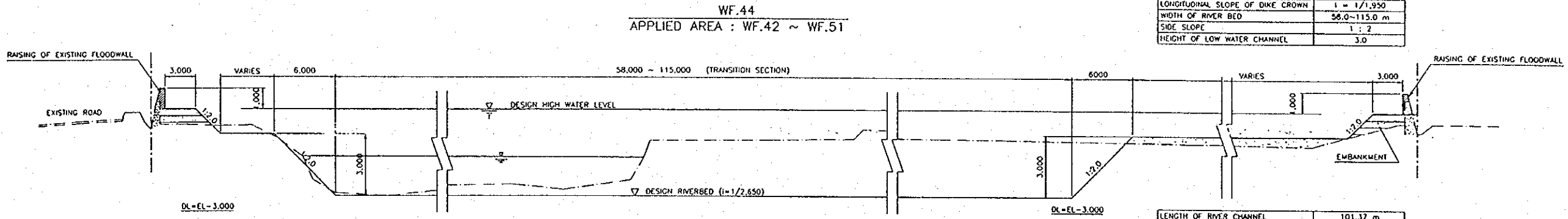
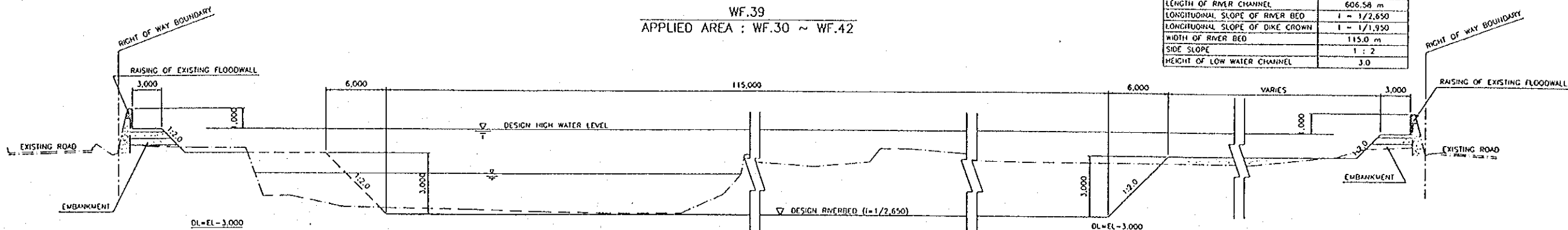
WF.25
APPLIED AREA : WF.15 ~ WF.30

LENGTH OF RIVER CHANNEL	766.35 m
LONGITUDINAL SLOPE OF RIVER BED	LEVEL
LONGITUDINAL SLOPE OF DIKE CROWN	1 = 1/1,950
WIDTH OF RIVER BED	115.0 m
SIDE SLOPE	1 : 2
HEIGHT OF LOW WATER CHANNEL	3.0



THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY

DWG. 6.2.3 (1/2)
STANDARD CROSS SECTION OF WEST FLOODWAY



THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA
JAPAN INTERNATIONAL COOPERATION AGENCY

DWG. 6.2.3 (2/2)
STANDARD CROSS SECTION OF WEST FLOODWAY

4

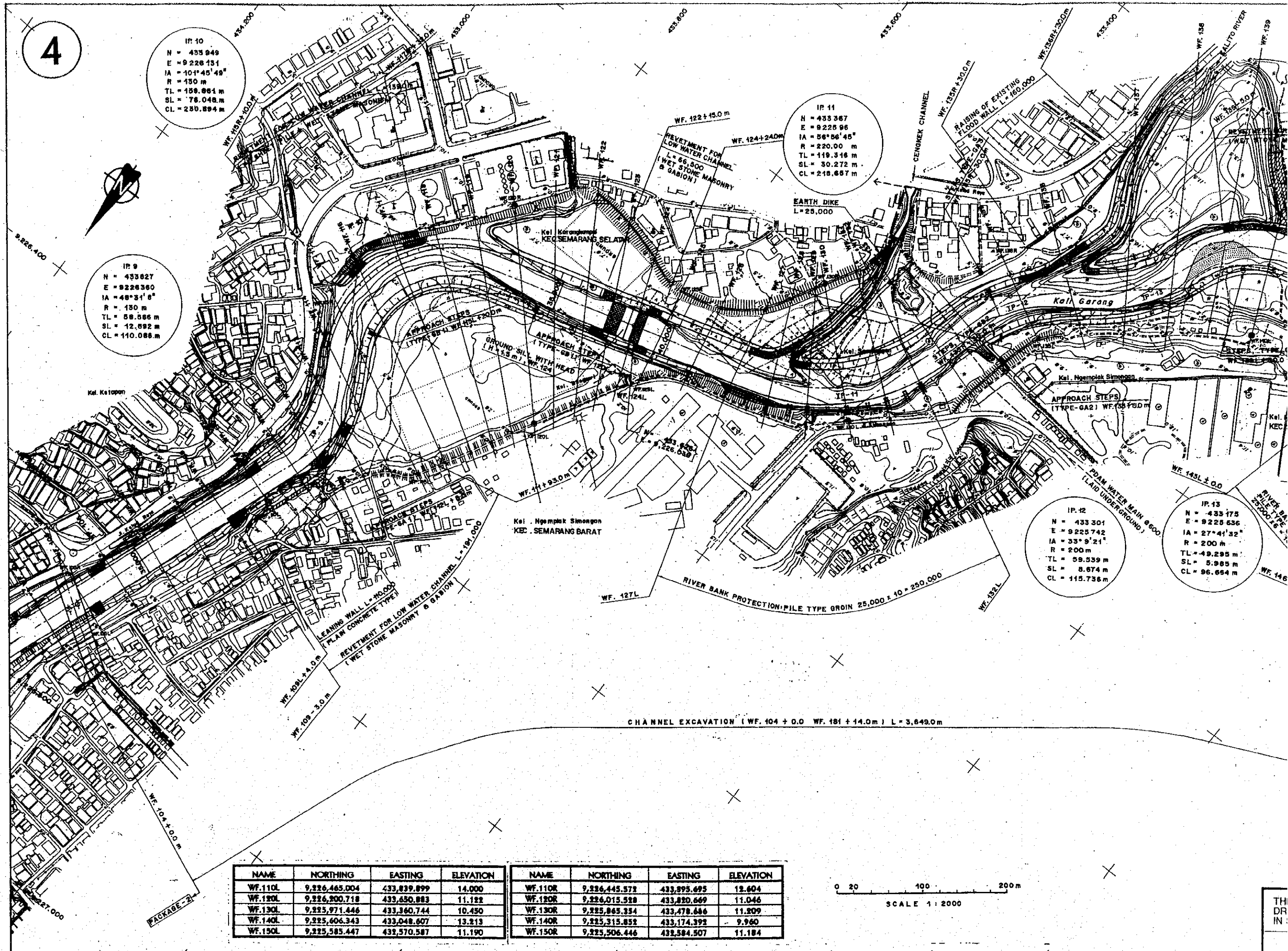
IP 10
 N = 433 949
 E = 9 226 131
 IA = 101° 45' 48"
 R = 130 m
 TL = 158.864 m
 SL = 78.048 m
 CL = 280.894 m

IP 9
 N = 433 827
 E = 9 226 360
 IA = 48° 31' 8"
 R = 130 m
 TL = 58.586 m
 SL = 12.592 m
 CL = 110.088 m

IP 11
 N = 433 367
 E = 9 225 96
 IA = 56° 56' 45"
 R = 220.00 m
 TL = 119.316 m
 SL = 30.272 m
 CL = 218.687 m

IP 12
 N = 433 301
 E = 9 225 742
 IA = 33° 9' 21"
 R = 200 m
 TL = 59.339 m
 SL = 8.674 m
 CL = 115.736 m

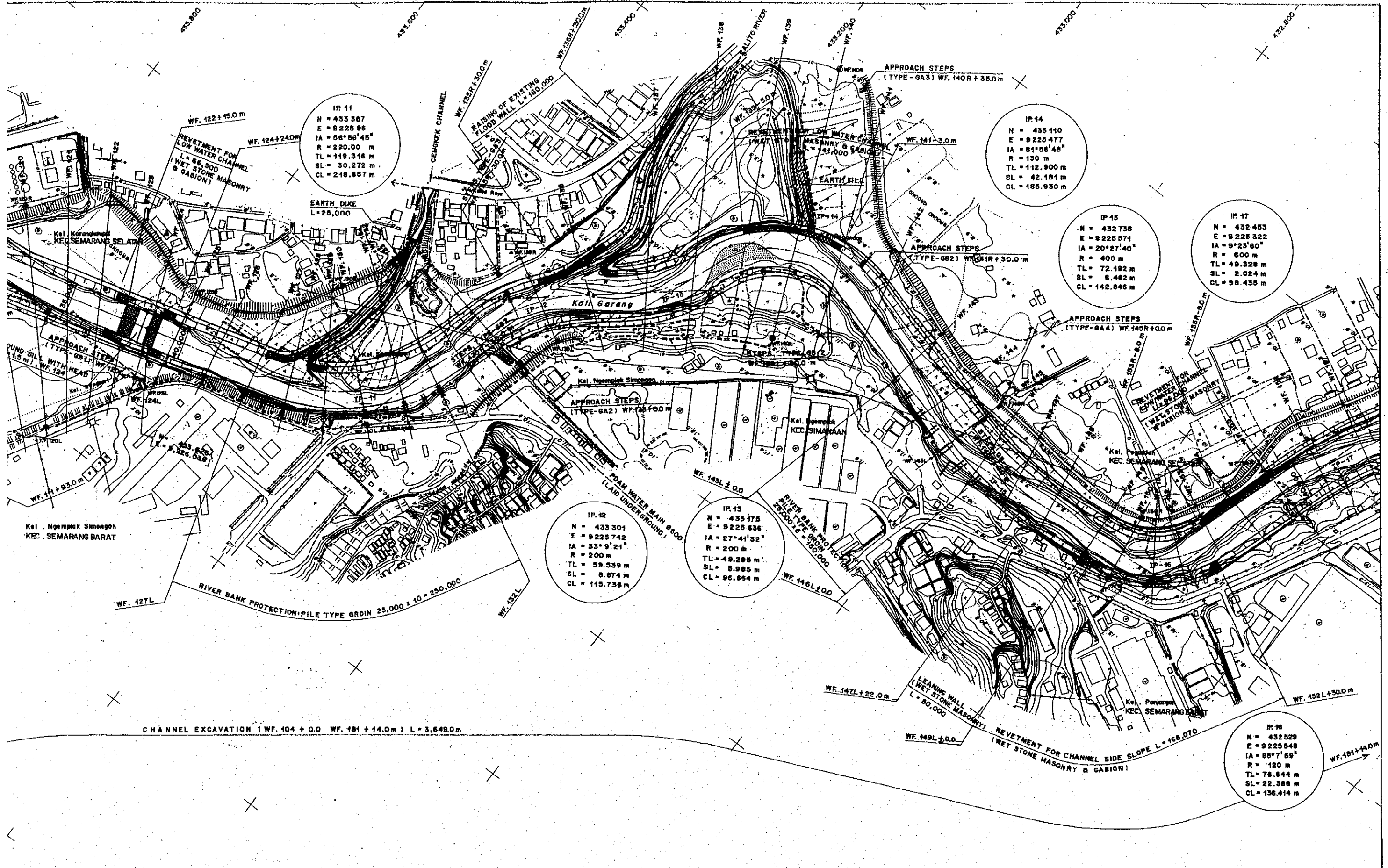
IP 13
 N = 433 175
 E = 9 225 636
 IA = 27° 41' 32"
 R = 200 m
 TL = 49.295 m
 SL = 5.985 m
 CL = 96.664 m



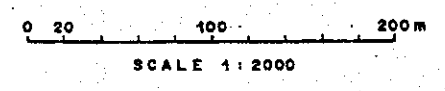
NAME	NORTHING	EASTING	ELEVATION	NAME	NORTHING	EASTING	ELEVATION
WF.110L	9,226,465.004	433,839.899	14.000	WF.110R	9,226,445.578	433,895.695	12.604
WF.120L	9,226,200.718	433,650.883	11.122	WF.120R	9,226,015.528	433,820.669	11.046
WF.130L	9,225,971.446	433,360.744	10.450	WF.130R	9,225,865.354	433,478.686	11.209
WF.140L	9,225,606.343	433,048.607	13.213	WF.140R	9,225,315.852	433,174.392	9.960
WF.150L	9,225,585.447	432,570.587	11.190	WF.150R	9,225,506.446	432,584.507	11.184

0 20 100 200m
 SCALE 1 : 2000

TH
 DR
 IN



NAME	NORTHING	EASTING	ELEVATION
WF.110R	9,226,443.372	433,895.695	12.604
WF.120R	9,226,015.328	433,820.669	11.046
WF.130R	9,225,865.354	433,478.666	11.209
WF.140R	9,225,315.852	433,174.392	9.960
WF.150R	9,225,506.446	432,584.507	11.184

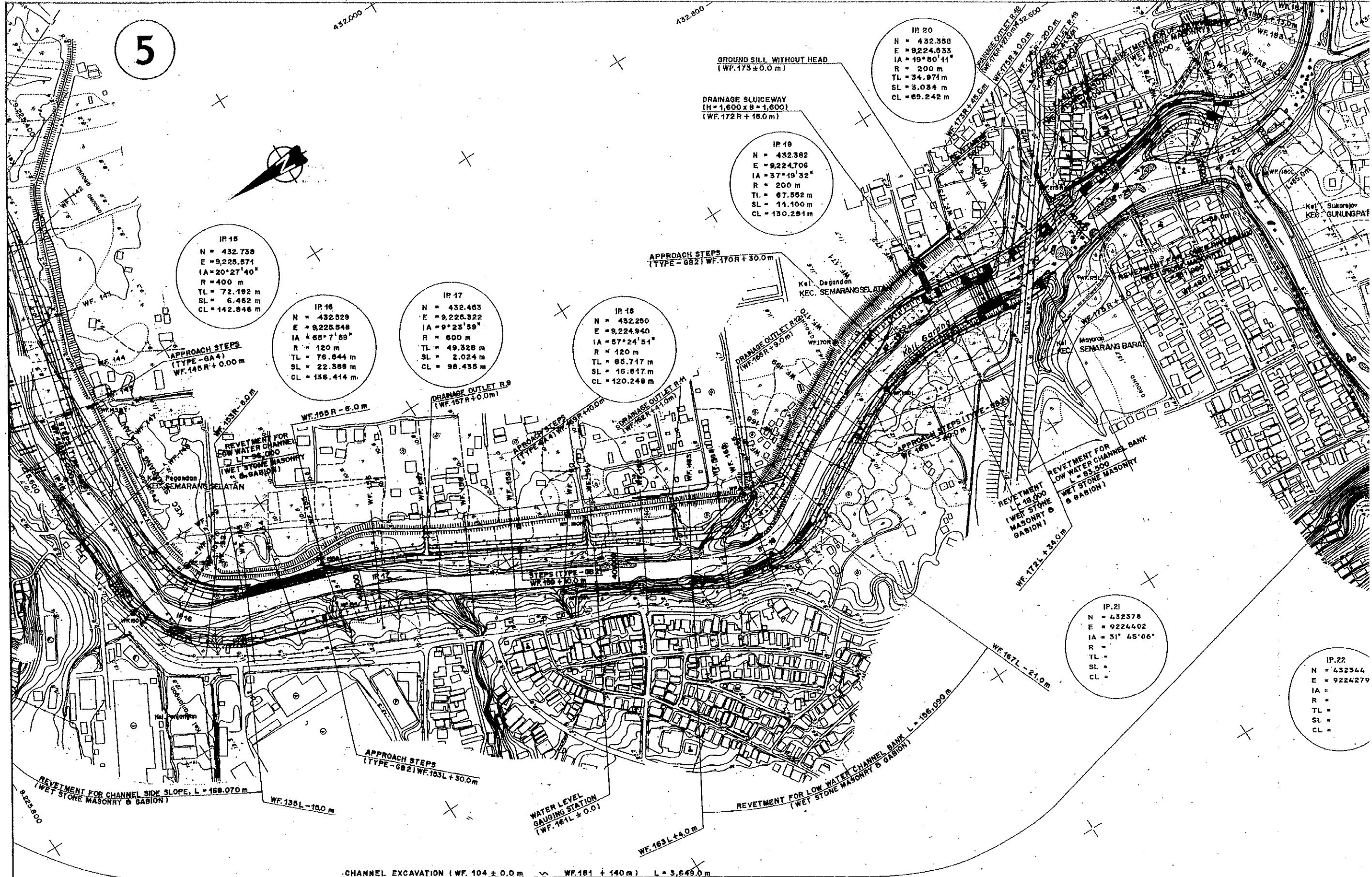


THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

JAPAN INTERNATIONAL COOPERATION AGENCY

DWG. 6.2.4 (1/3)
PLAN OF GARANG RIVER

5



IP 15
N = 432.738
E = 9,225.571
IA = 20° 27' 40"
R = 400 m
TL = 72.192 m
SL = 6.452 m
CL = 142.846 m

IP 16
N = 432.529
E = 9,225.548
IA = 65° 7' 59"
R = 120 m
TL = 76.644 m
SL = 22.588 m
CL = 136.414 m

IP 17
N = 432.403
E = 9,225.322
IA = 9° 23' 59"
R = 600 m
TL = 49.328 m
SL = 2.024 m
CL = 98.435 m

IP 18
N = 432.250
E = 9,224.940
IA = 57° 24' 51"
R = 120 m
TL = 65.717 m
SL = 16.817 m
CL = 120.248 m

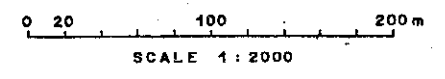
IP 19
N = 432.382
E = 9,224.706
IA = 57° 19' 32"
R = 200 m
TL = 67.552 m
SL = 11.400 m
CL = 130.281 m

IP 20
N = 432.358
E = 9,224.533
IA = 19° 50' 41"
R = 200 m
TL = 34.971 m
SL = 3.034 m
CL = 69.242 m

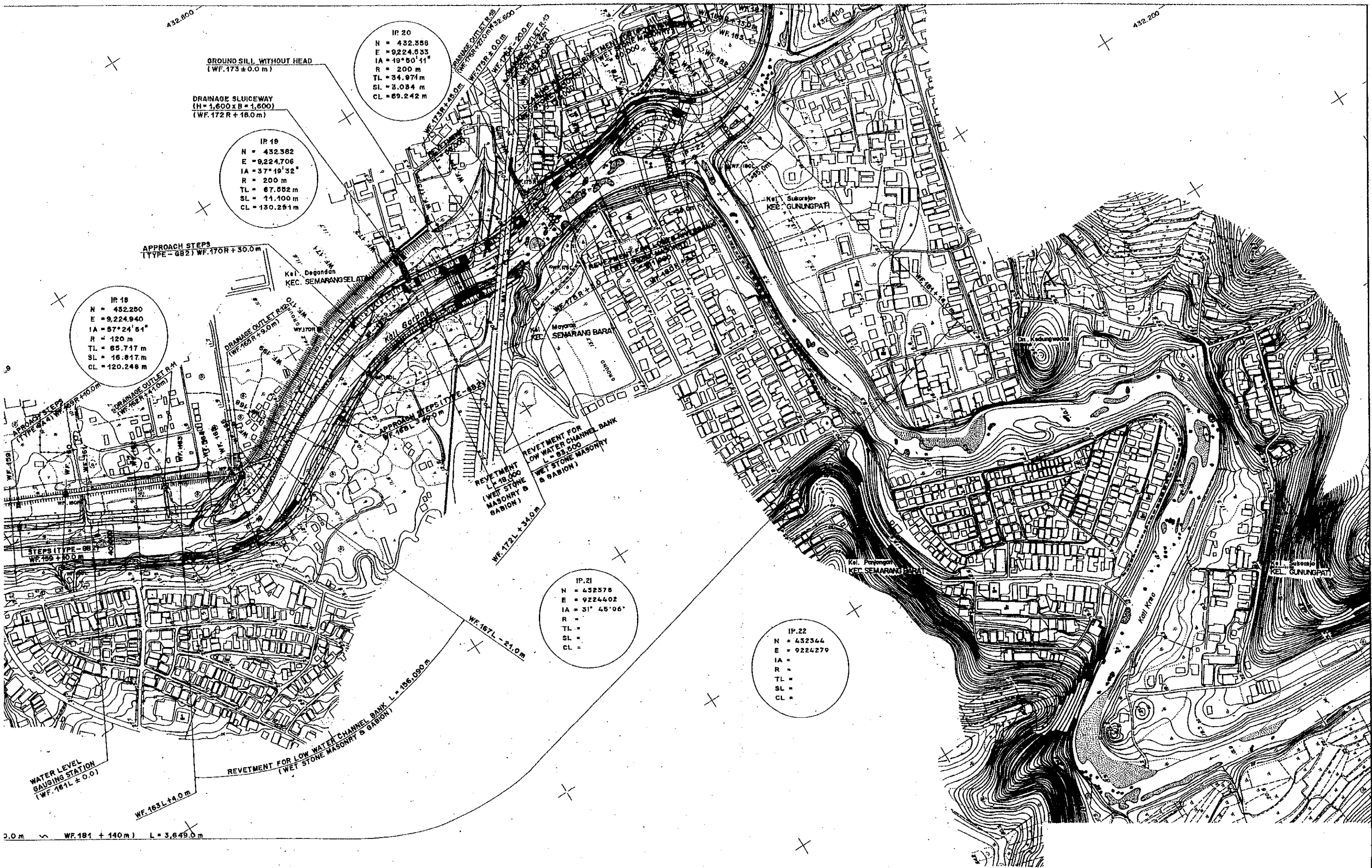
IP 21
N = 432.378
E = 9,224.402
IA = 31° 45' 06"
R =
TL =
SL =
CL =

IP 22
N = 432.344
E = 9,224.279
IA =
R =
TL =
SL =
CL =

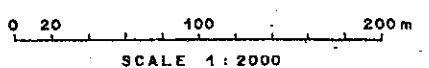
NAME	NORTHING	EASTING	ELEVATION	NAME	NORTHING	EASTING	ELEVATION
WF.150L	9,225,385.447	432,570.587	11.190	WF.150R	9,225,306.446	432,584.507	11.184
WF.160L	9,225,164.335	432,336.495	9.321	WF.160R	9,225,113.825	432,406.006	14.482
WF.170L	9,224,736.630	432,329.047	9.475	WF.170R	9,224,758.219	432,403.999	14.260
WF.180L	9,224,250.068	432,311.727	12.149	WF.180R	9,224,251.145	432,405.201	11.827



THE DRAINAGE
IN SEM
JAPA



EASTING	ELEVATION
32,584.507	11.184
32,406.006	14.482
32,403.999	14.260
32,405.201	11.827



THE DETAILED DESIGN OF FLOOD CONTROL, URBAN DRAINAGE AND WATER RESOURCES DEVELOPMENT IN SEMARANG IN THE REPUBLIC OF INDONESIA

DWG. 6.2.4 (2/3)
PLAN OF GARANG RIVER

JAPAN INTERNATIONAL COOPERATION AGENCY

5A

