



GOVERNMENT OF THE REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL OF HUMAN SETTLEMENTS

URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA
TENDER DOCUMENTS FOR

PACKAGE #1

CONTRACT NO :

KAMAL DRAINAGE CHANNEL

VOLUME IV

DRAWINGS

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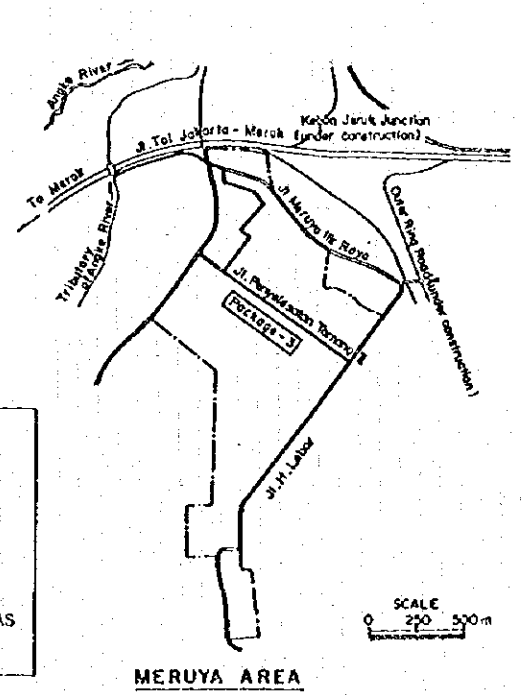
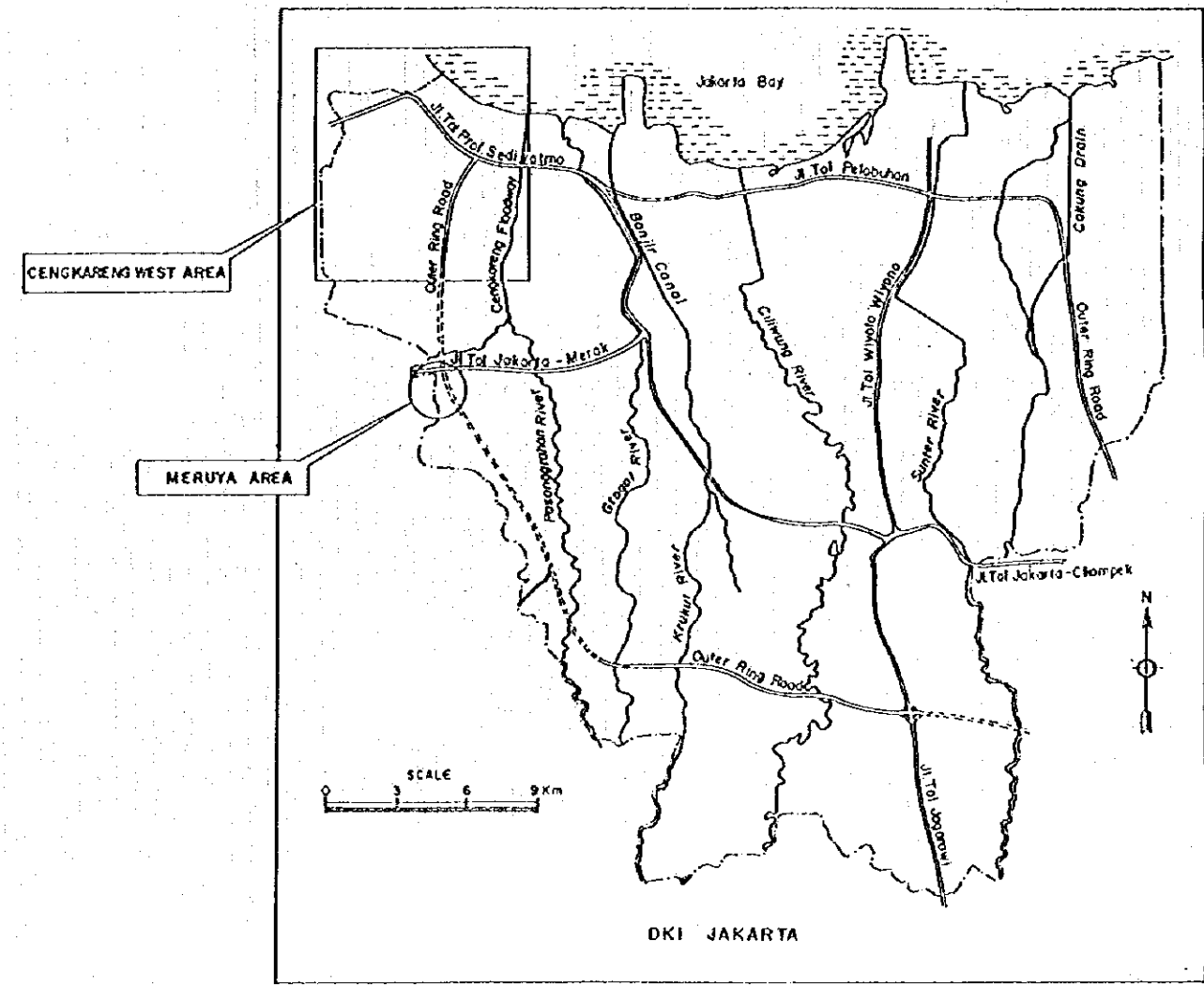
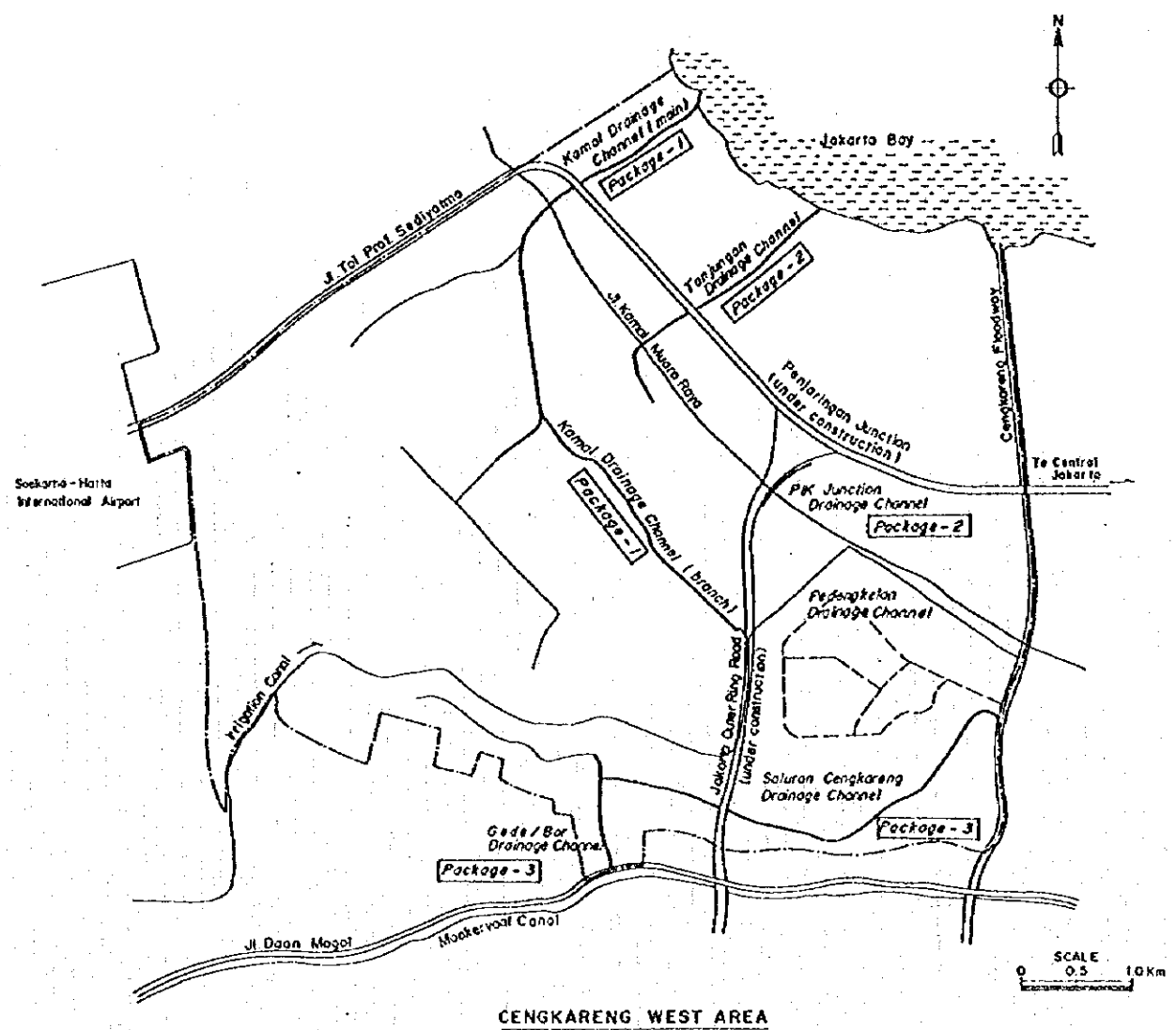
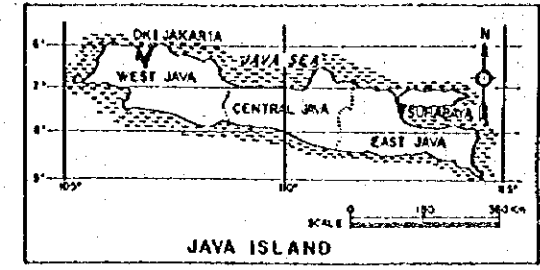
VOLUME IV

DRAWINGS

DECEMBER 1997

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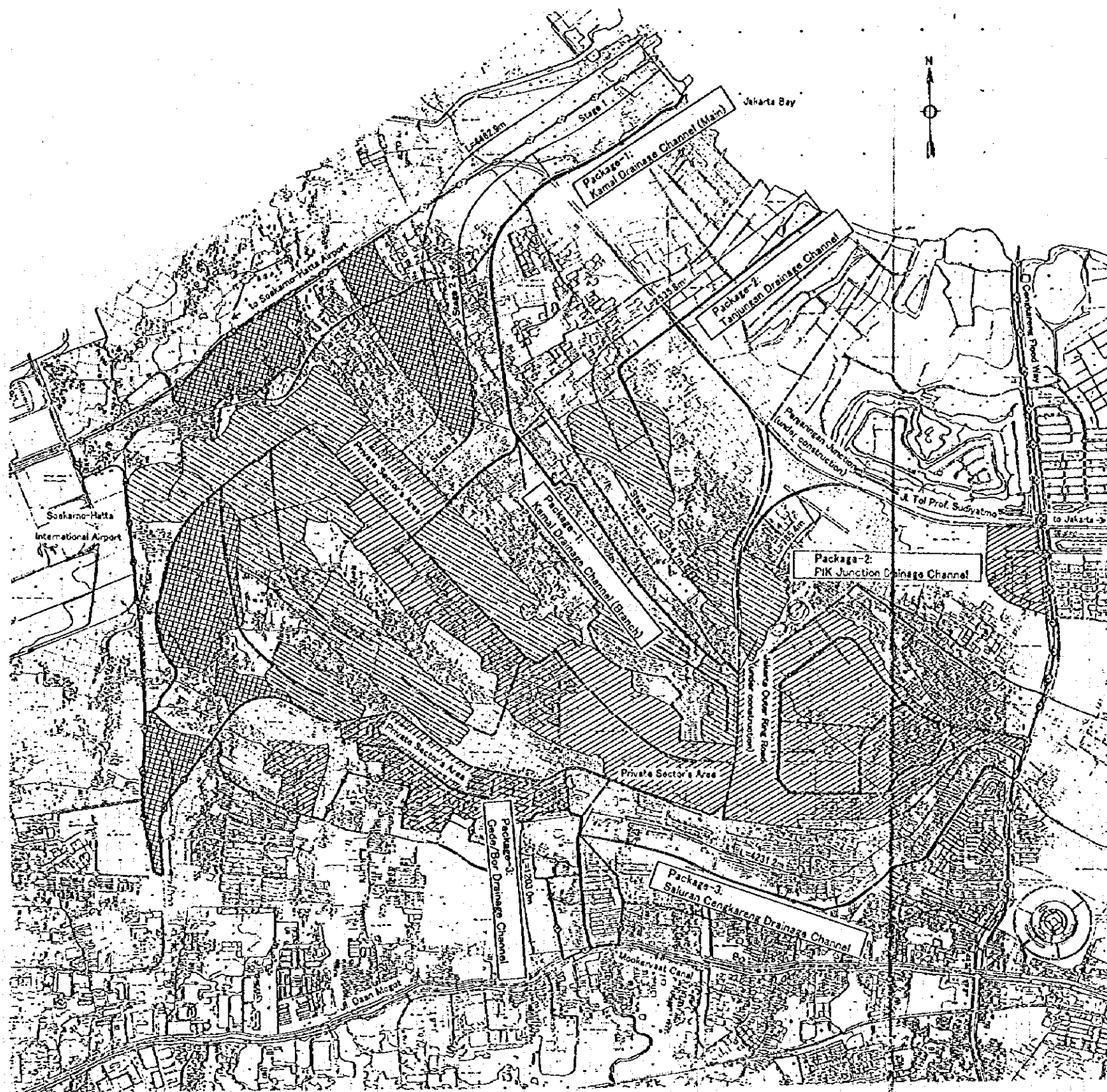
PLATE NO.	DWG NO.	TITLE	PLATE NO.	DWG NO.	TITLE
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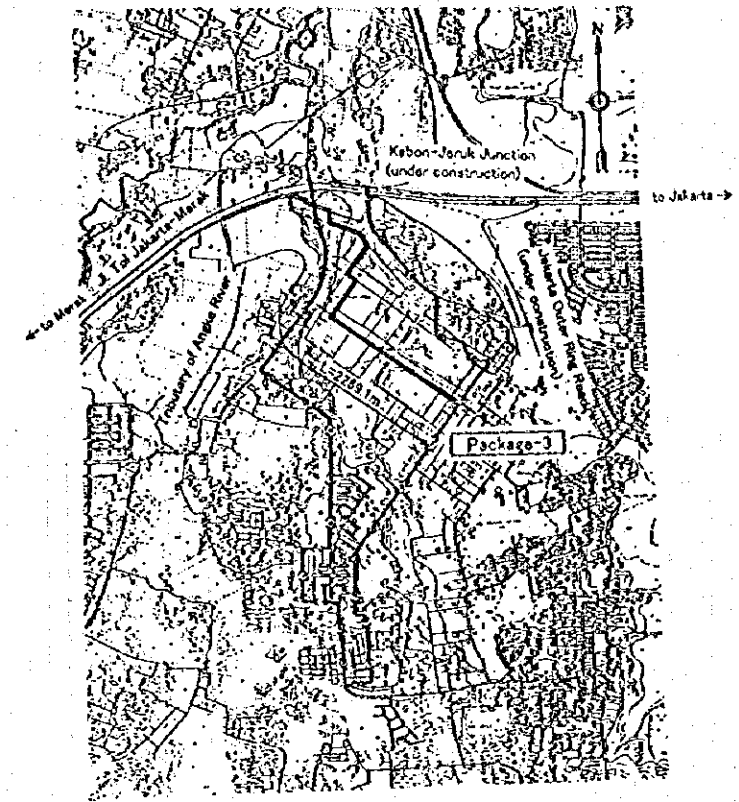
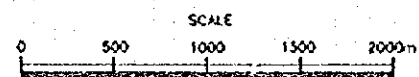
LEGEND

- : Project boundary
- : Drainage channel/design stretch in the project
- : Drainage channel/irrigation canal
- : Drainage channel/under construction by PERUM PERUMNAS (National Urban Development Corporation)

REFERENCE	DWG NO.	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED
		CHECKED.....		LOCATION MAP	
		SUBMITTED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	OWG NO.	DATE
		DATE.....		J-00-00-001	



CENKARENG WEST AREA



MERUYA AREA

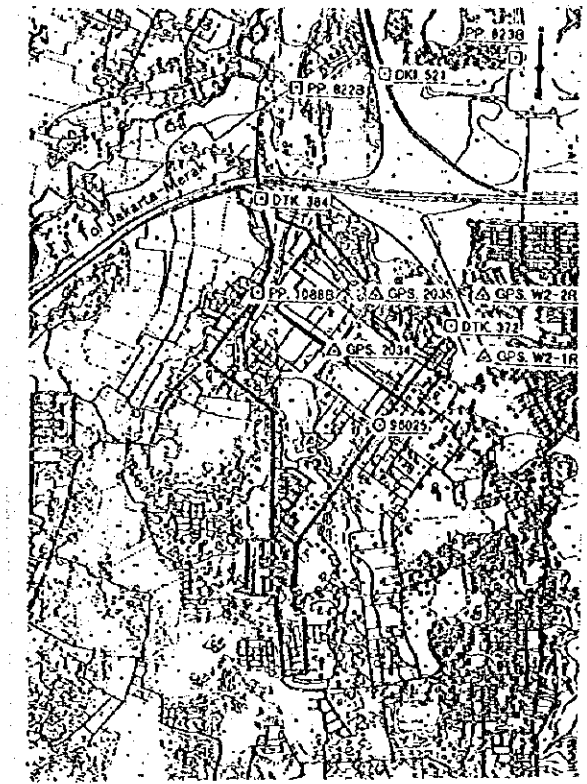
SUMMARY OF DRAINAGE CHANNEL IMPROVEMENT

	Name of Drainage Channel	Drainage Channel (m)	Sluiceway (sites)	Bridge/Culvert (sites)
Package-1	Kamal (Main)	4482.9	15	9
	Kamal (Branch)	2754.7	8	18
Package-2	Tanjung	2535.8	7	5
	PIK Junction	785.4	1	4
Package-3	Cade/Bor	1203.0	5	13
	Saluran Cengkareng	4231.2	15	10
	Meruya	2269.1	0	15

LEGEND

- : Project boundary
- : Boundary of drainage area
- : Drainage channel/design stretch in the project
- : Drainage channel/already constructed
- : Drainage channel/to be constructed by private sector
- : Area already acquired by private sector
- : Swampy/depression areas already acquired by private sector
- : Paddy field

PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
CHECKED.....		OVERALL PLAN	
SUBMITTED.....		DWG NO.	DATE
DATE.....		J-00-00-002	
REFERENCE	DWG NO.		



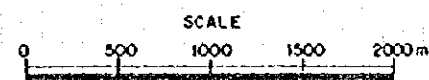
MERUYA AREA

LIST OF BENCH MARKS

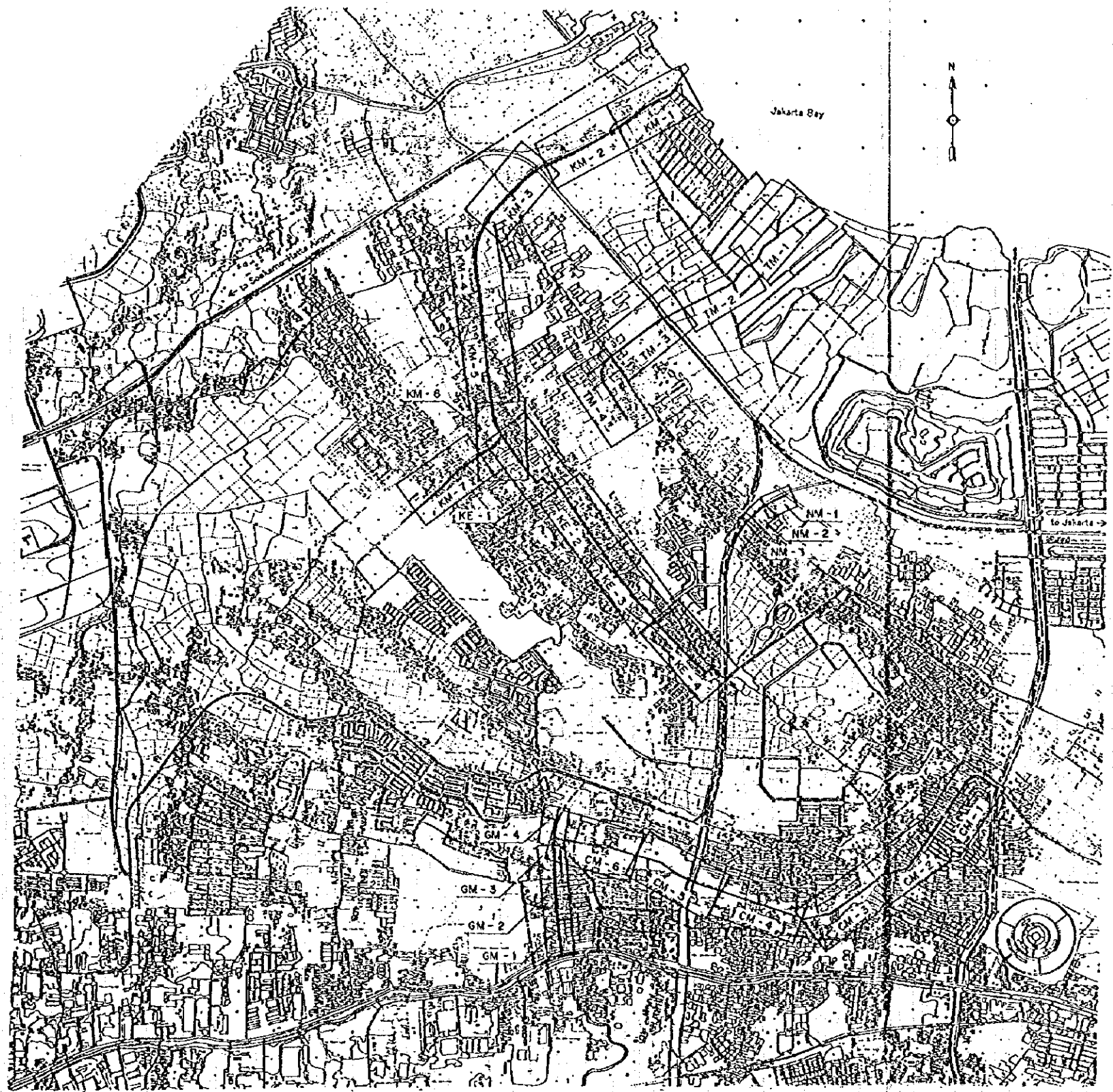
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				North (m)	East (m)							North (m)	East (m)		
Kamal Area															
PP. 101A	1.348	Rev	GPS 1006	8328.96742	890.43120	0.26	Ref	DTK 094	1.350	Rev					
PP. 103A	0.872	Rev	GPS 2018	8328.96742	890.43120	0.27		95008	1.347	Est					
PP. 129E9	1.014	Rev	GPS 2018	8322.78500	898.97980	1.20		95007	1.347	Est					
PP. 701	1.581	Rev	GPS 1008A	8325.98237	892.17547	0.10		95004	0.822	Est					
PP. 707	1.258	Rev						95005	1.345	Est	GPS 2027	8321.83200	891.42331	1.13	
PP. 1290B	1.143	Rev						95010	1.848	Est					
PP. 8291B	1.149	Rev						95014	2.074	Est					
PP. 4298B	1.282	Rev						95015	1.950	Est					
PP. 8300B	1.323	Rev													
PP. 716	1.025	Rev													
DTK 701	1.515	Rev													
DTK 900	1.118	Rev													
BM 01	1.703	Rev													
BM 09	0.841	Rev													
95001	1.574	Est													
95002	1.679	Est													
95003	1.270	Est													
95017	0.853	Est													
95018	1.230	Est													
Tanjung Area															
PP. 107A	0.732	Rev	GPS W1-1-1	8323.20881	881.58026	-0.52	Rev	DTK 216	5.114	Rev	GPS 1002	8318.22872	886.53584	3.54	Ref
DKL 535	1.051	Rev						TTG 215 (PP 743)	3.203	Rev	GPS 1003	8318.74813	891.12234	1.00	Ref
DKL 754	0.472	Rev						PP. 108A	1.124	Rev	GPS 1006	8322.25490	894.14155	0.42	Ref
DTK 258	0.403	Rev						PP. 1302B	3.345	Rev	GPS 1005A	8318.27524	891.05880	1.83	
84.02	0.521	Rev						PP. 318	0.012	Rev	GPS 1008A	8321.97643	894.05850	0.79	
95011	0.913	Est						PP. 745A	4.133	Rev	GPS W2-1R	8314.85314	891.78887	0.13	Rev
95012 (BAYAS)	0.918	Est						PP. 785	2.484	Rev	GPS W2-2R	8314.81939	891.82878	7.40	Rev
95022 (DM 2)	1.411	Rev						PP. 183	3.067	Rev					
Gada/Bor Area															
PP. 733B	0.250	Rev	GPS 2024	8320.70780	891.91190	3.33		PP. 225	4.254	Rev					
DKL 1082	4.219	Rev	GPS 2027	8321.09054	888.11723	4.10		PP. 823B	9.774	Rev					
DKL 1183	3.213	Rev						DKU 1058	4.627	Rev	(OSP 1002)				
DKL 582	4.232	Rev						DKL 289	4.783	Rev					
84.08	2.204	Rev						DKL 521	3.513	Rev					
Saluran Cengkareng Area															
								DTK 372	8.429	Rev					
								CF. 0	2.419	Rev					
								95004	3.899	Est					
								95001	4.181	Est					
								95011 (CL. 1)	1.901	Rev					

Note: * Height of GPS points is indirect level to calculated using the earth ellipsoid (WGS-84)
 Rev: Recovered point
 Ref: Reference point
 Est: Established point
 Ad: Additional point

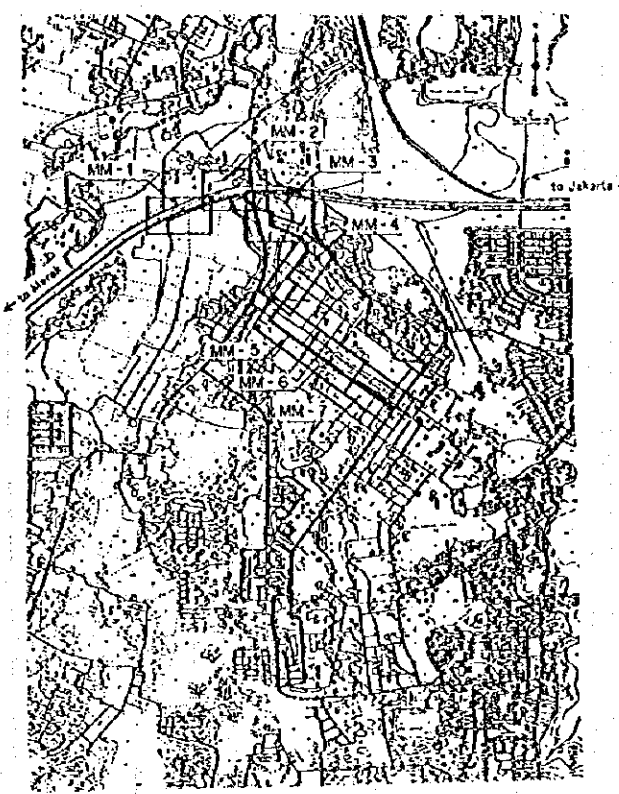
LEGEND
 ○ Recovered Bench Marks
 △ Established Bench Marks
 ⊙ GPS Points



PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING LOCATION MAP OF BENCH MARKS	APPROVED
CHECKED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO. J-00-00-003	DATE
SUBMITTED.....			
REFERENCE	DATE		

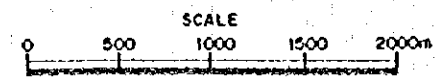


CENKARENG WEST AREA

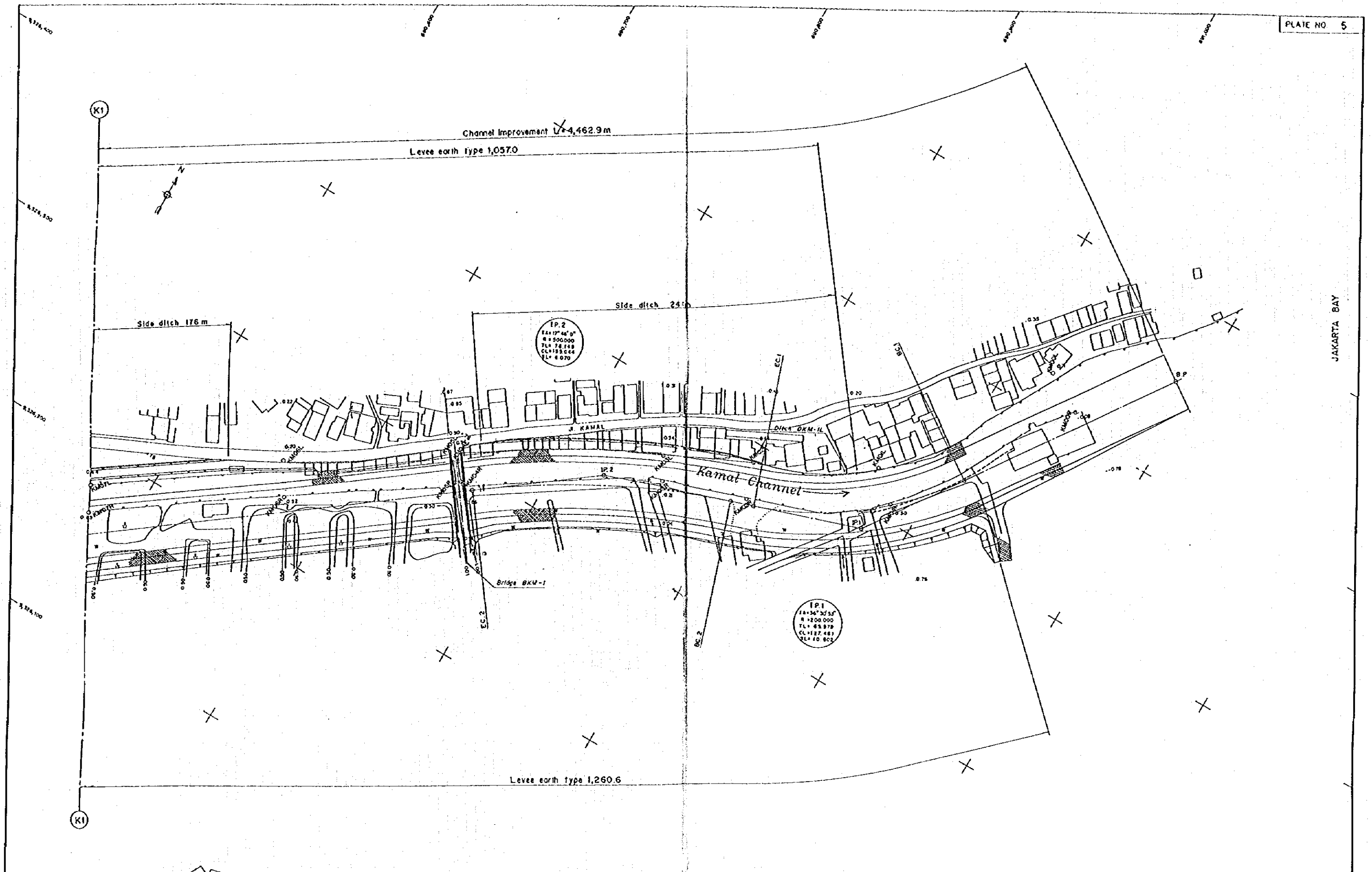


MERUYA AREA

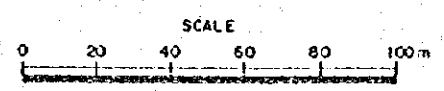
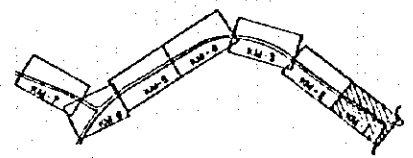
LEGEND	
-----	: Project boundary
-----	: Boundary of drainage area
-----	: Drainage channel
XM	: Kamal drainage channel (main)
KE	: Kamal drainage channel (branch)
TM	: Tanjung drainage channel
NM	: PIK Junction drainage channel
GM	: Gede/Bor drainage channel
CM	: Saluran Cengkareng drainage channel
MM	: Meruya area



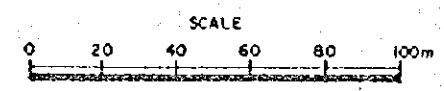
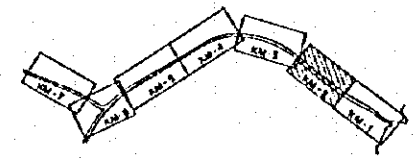
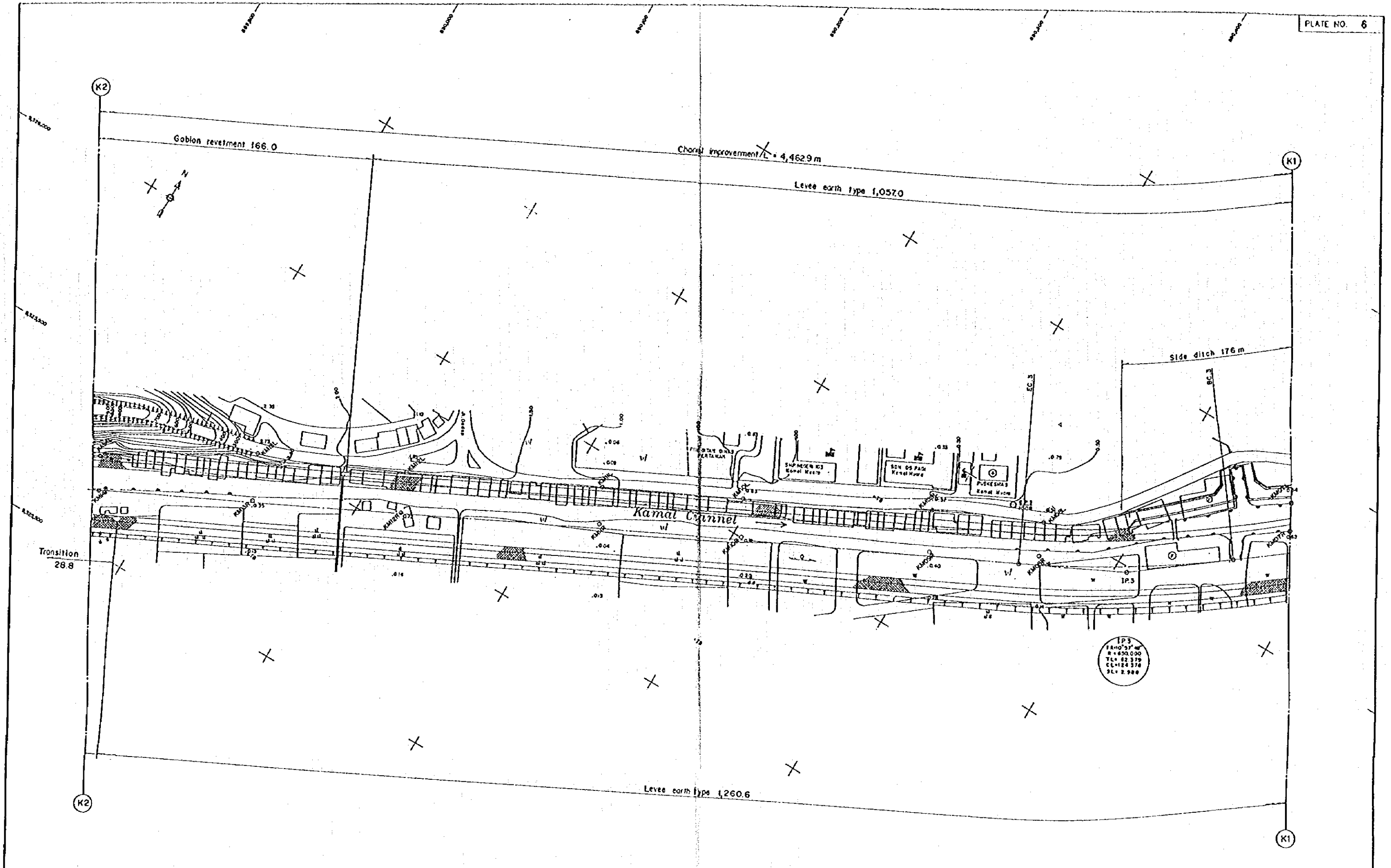
PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE CHANNEL, PLAN, INDEX MAP	APPROVED
CHECKED.....		DWG NO.	DATE
SUBMITTED.....		J-10-10-001	
REFERENCE		DWG. NO.	DATE



JAKARTA BAY



REFERENCE	DWG. NO.	DATE	PREPARED CHECKED SUBMITTED DATE	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING DRAINAGE CHANNEL, PLAN, KAMAL DRAINAGE CHANNEL (MAIN) (1/7) DWG. NO. J-10-10-101	APPROVED DATE
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REFERENCE	DAG. NO.	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED
		CHECKED.....		JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	
		SUBMITTED.....		OWG NO.	DATE
		DATE.....		J-10-10-102	

Channel Improvement L = 4,462.9 m

Revetment Type I 593.7

Revetment Type I 144.7

IP 6
TA=10°57'1"
R=400.000
TL=83.782
CL=29.328
SL=4.938

IP 4
TA=10°57'58"
R=230.000
TL=83.758
CL=42.033
SL=2.484

IP 5
TA=10°57'1"
R=1000.000
TL=81.471
CL=122.711
SL=1.808

JASA MARGA work area for
channel improvement works

Gablon
Revetment

Kamat Channel

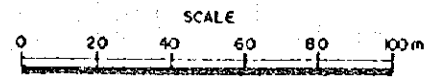
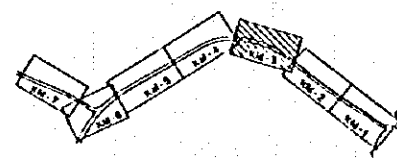
Kamat Channel

Side ditch 1,276 m

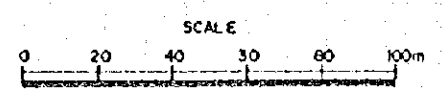
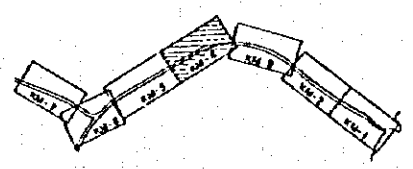
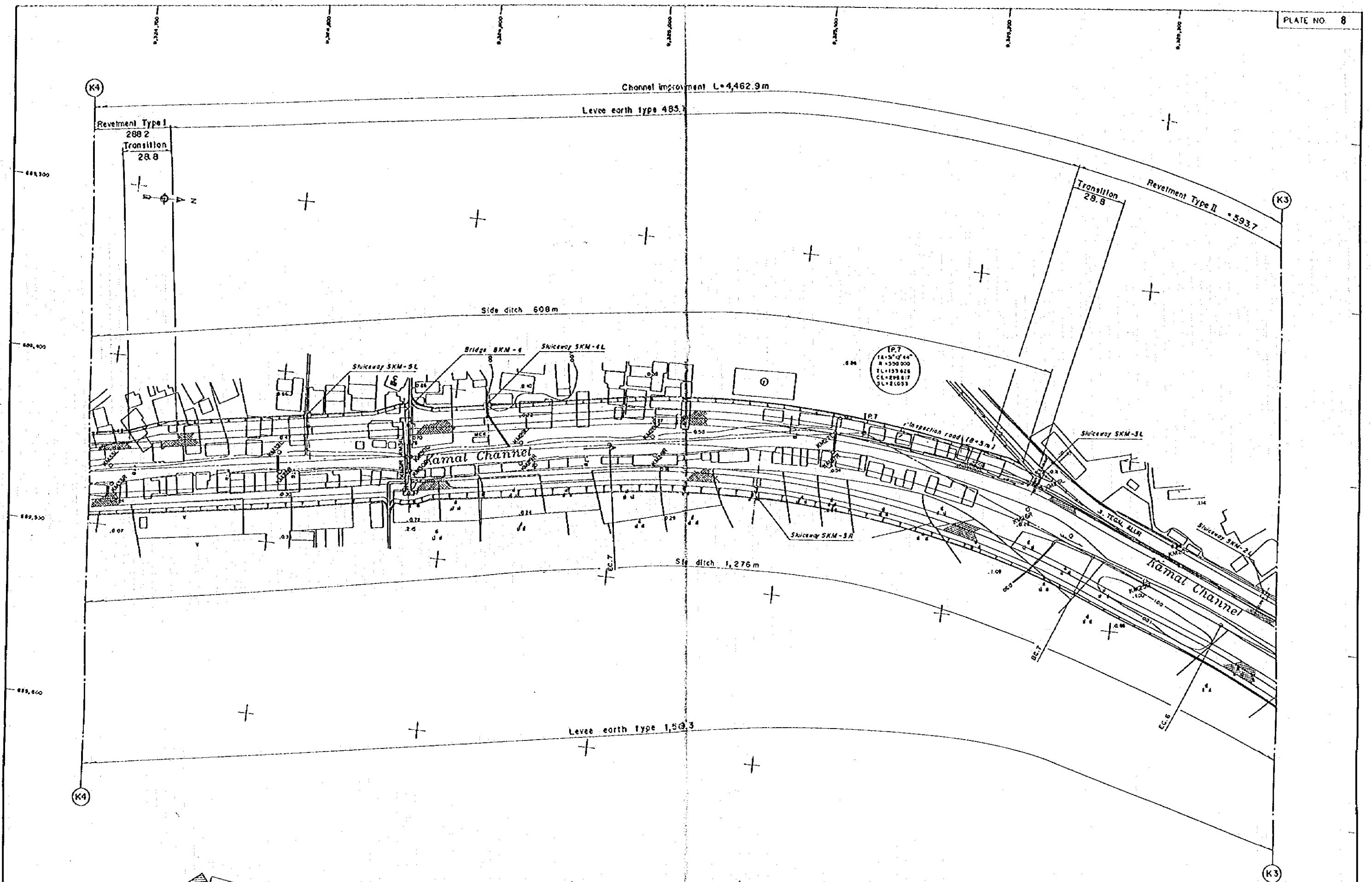
Side ditch 259 m

Live earth Type I, 509.3

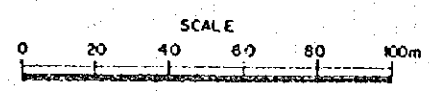
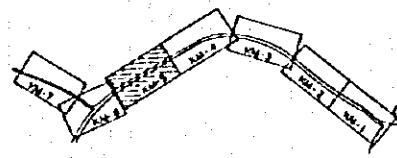
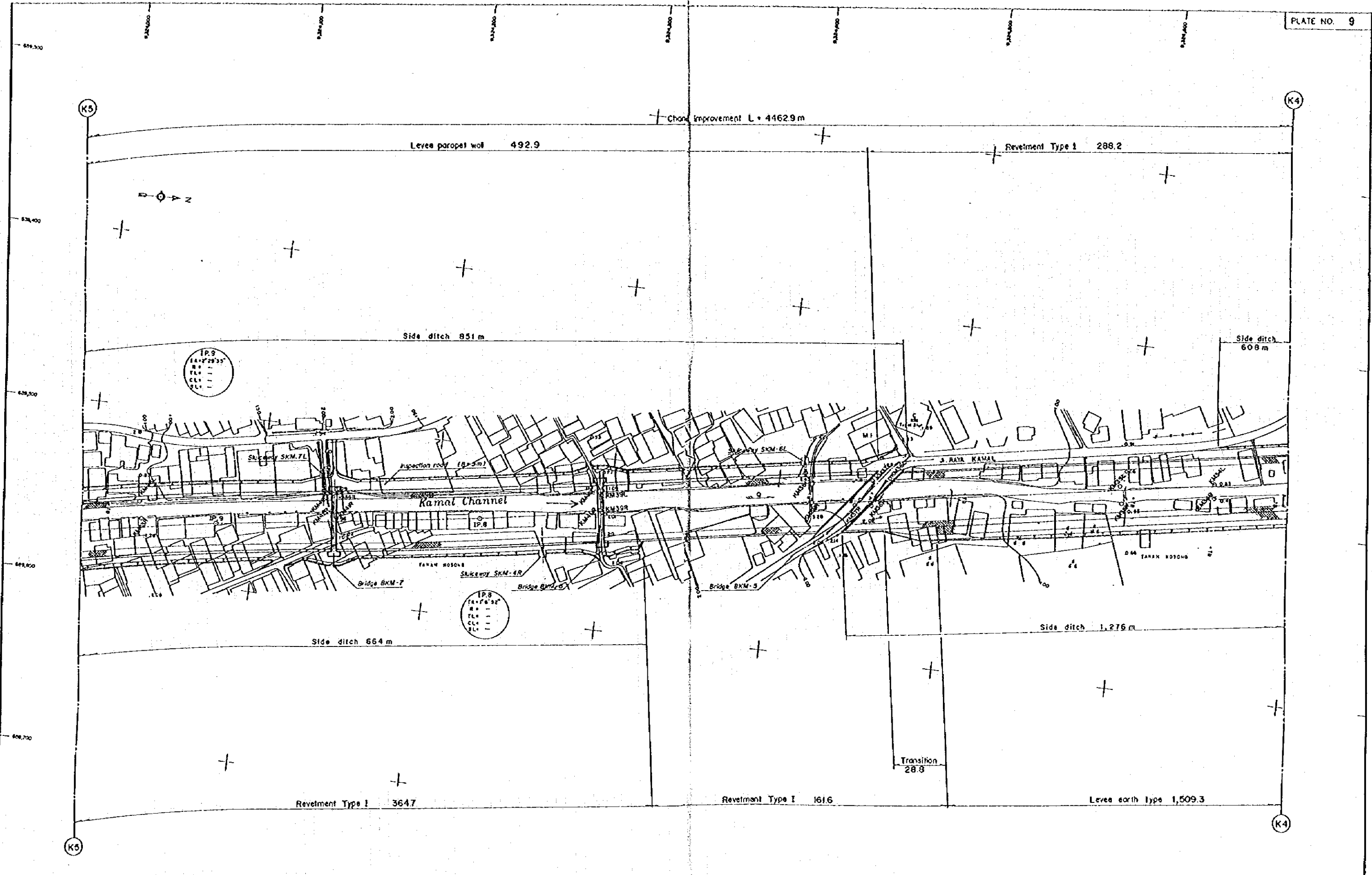
Transition
28.8



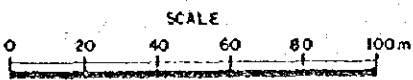
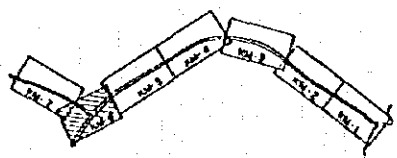
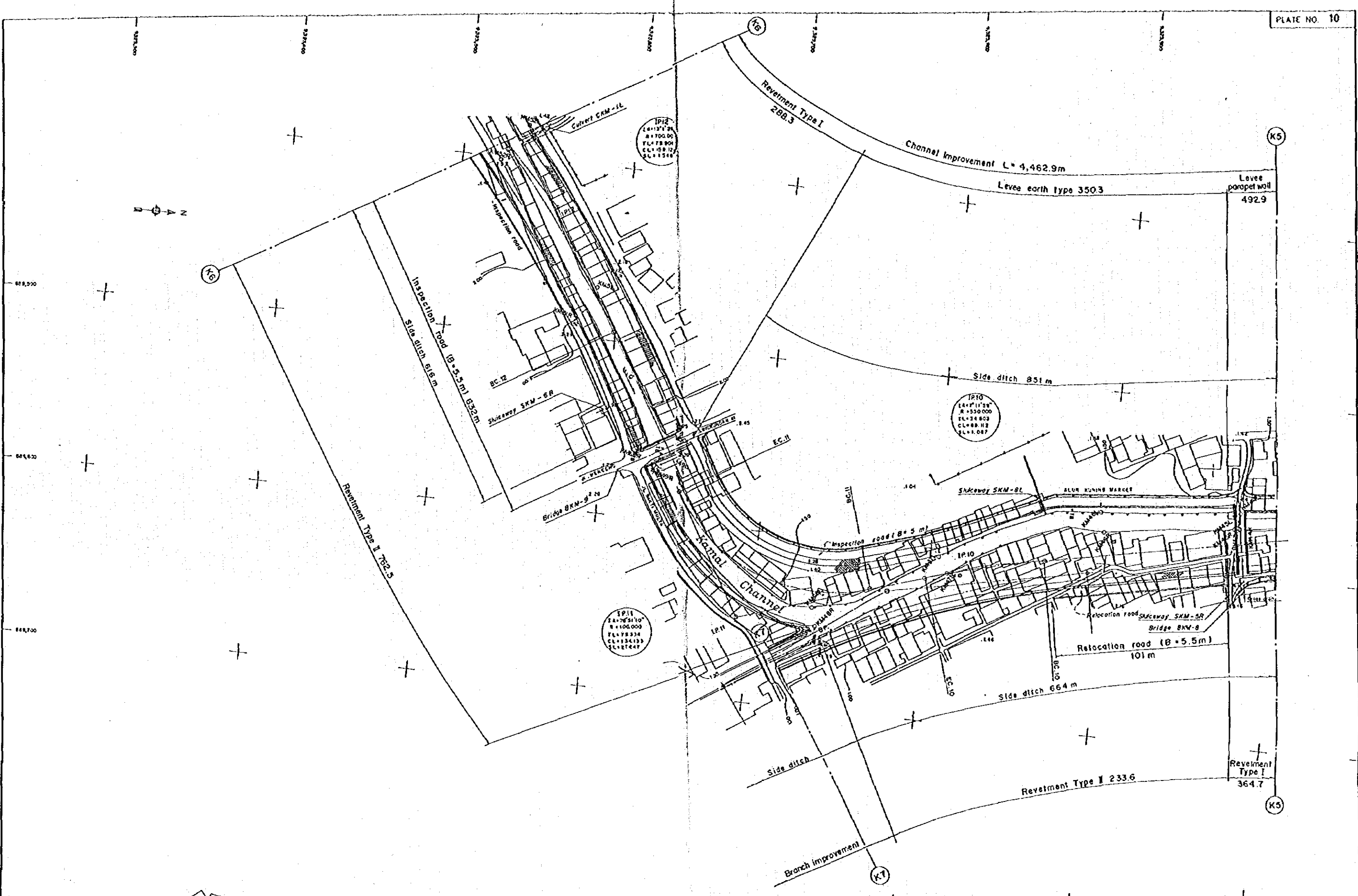
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		CHECKED.....		DRAINAGE CHANNEL, PLAN, KAMAL DRAINAGE CHANNEL (MAIN) (3/7)		
		SUBMITTED.....		DWG NO.		DATE
		DATE.....		J-10-10-103		
		JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA				



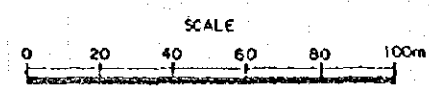
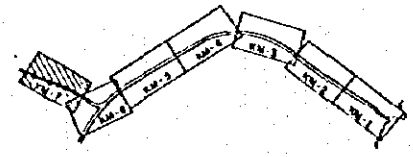
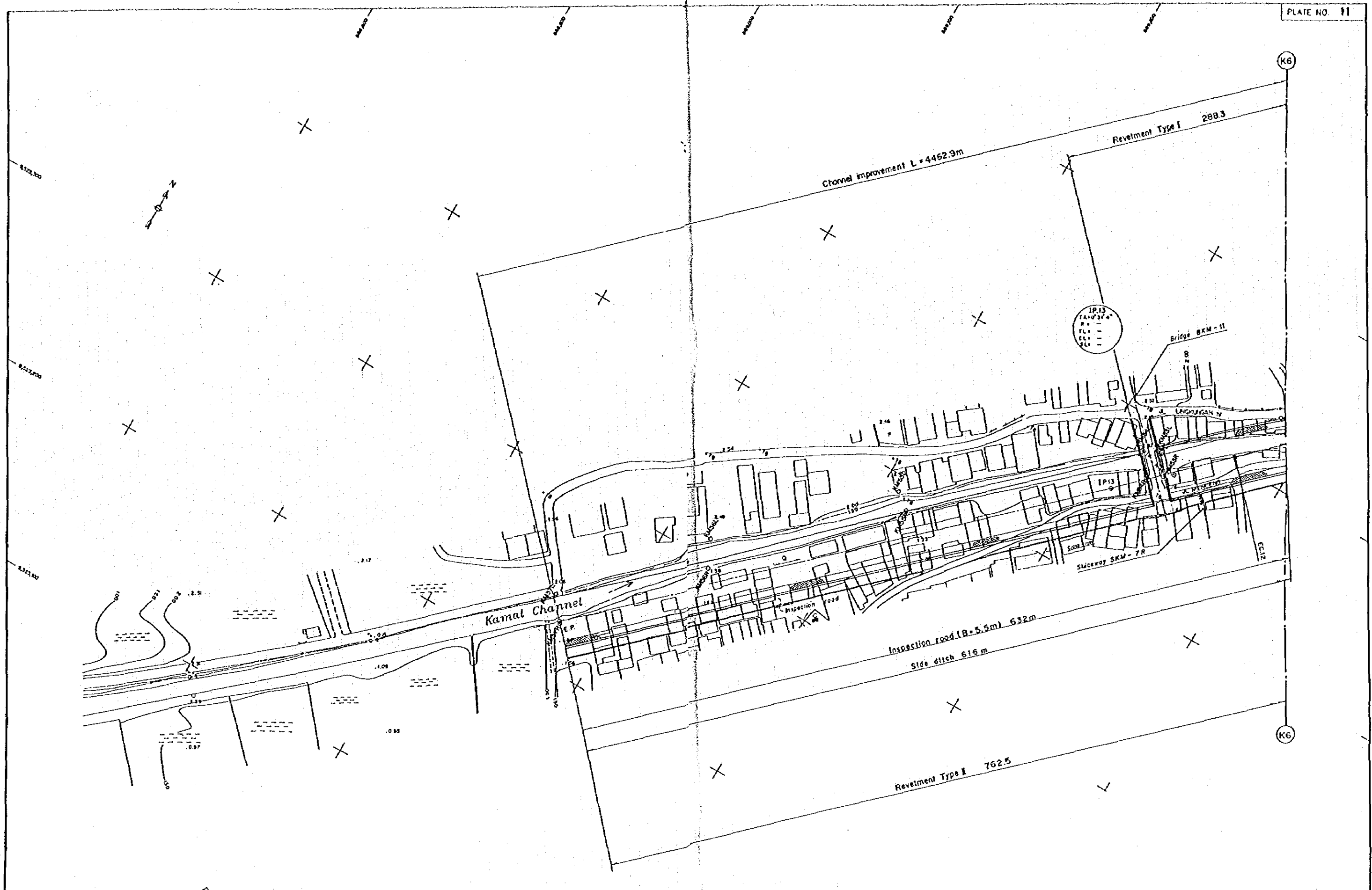
REFERENCE	Dwg. NO.	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
		CHECKED.....		DRAINAGE CHANNEL, PLAN, KAMAL DRAINAGE CHANNEL (MAIN) (4/7)	
		SUBMITTED.....		DWG NO.	DATE
		DATE.....		J - 10 - 10 - 104	



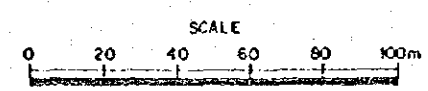
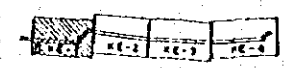
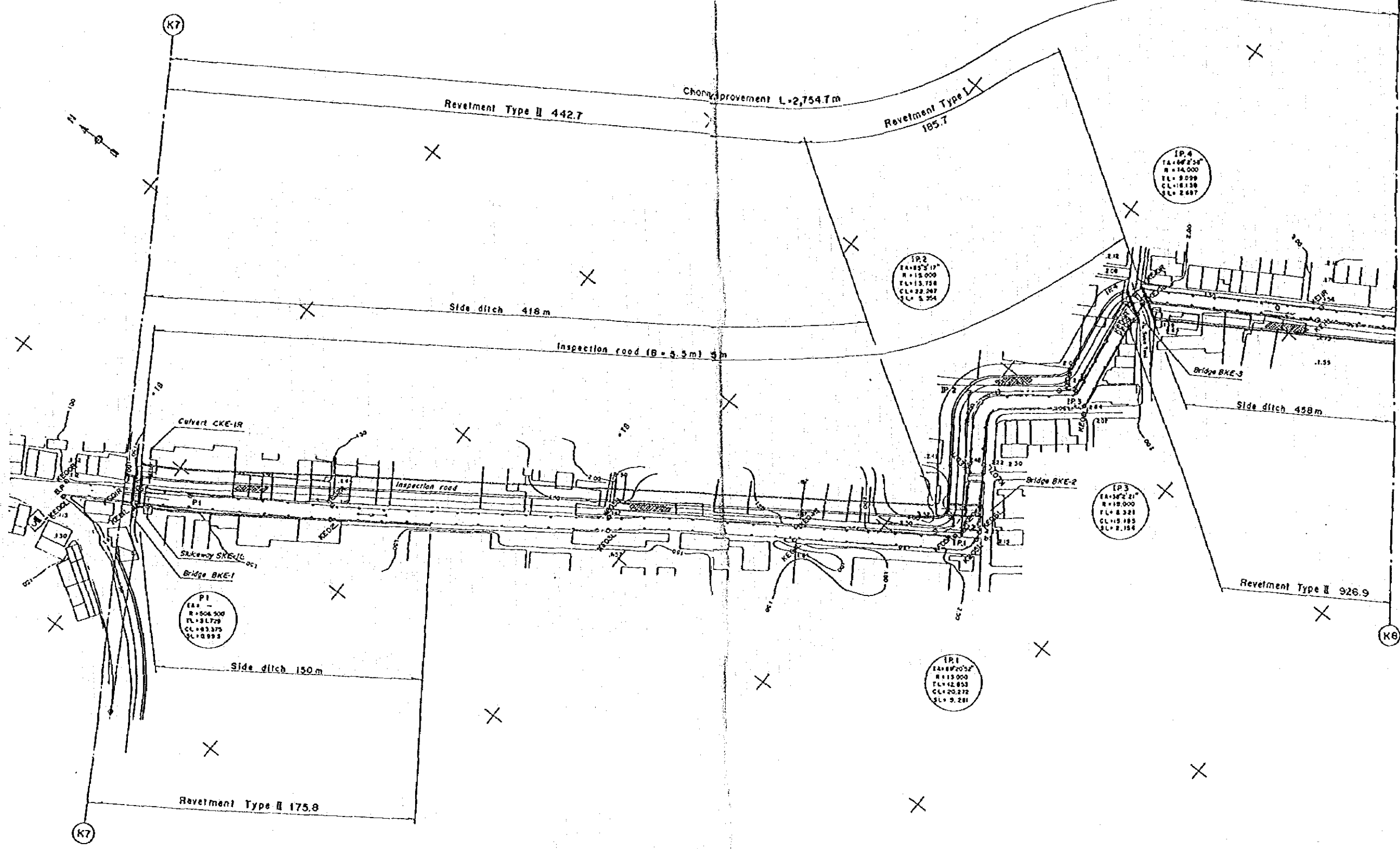
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		CHECKED		JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	
		SUBMITTED		DWG NO.	
		DATE		J-10-10-105	



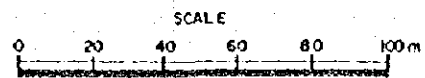
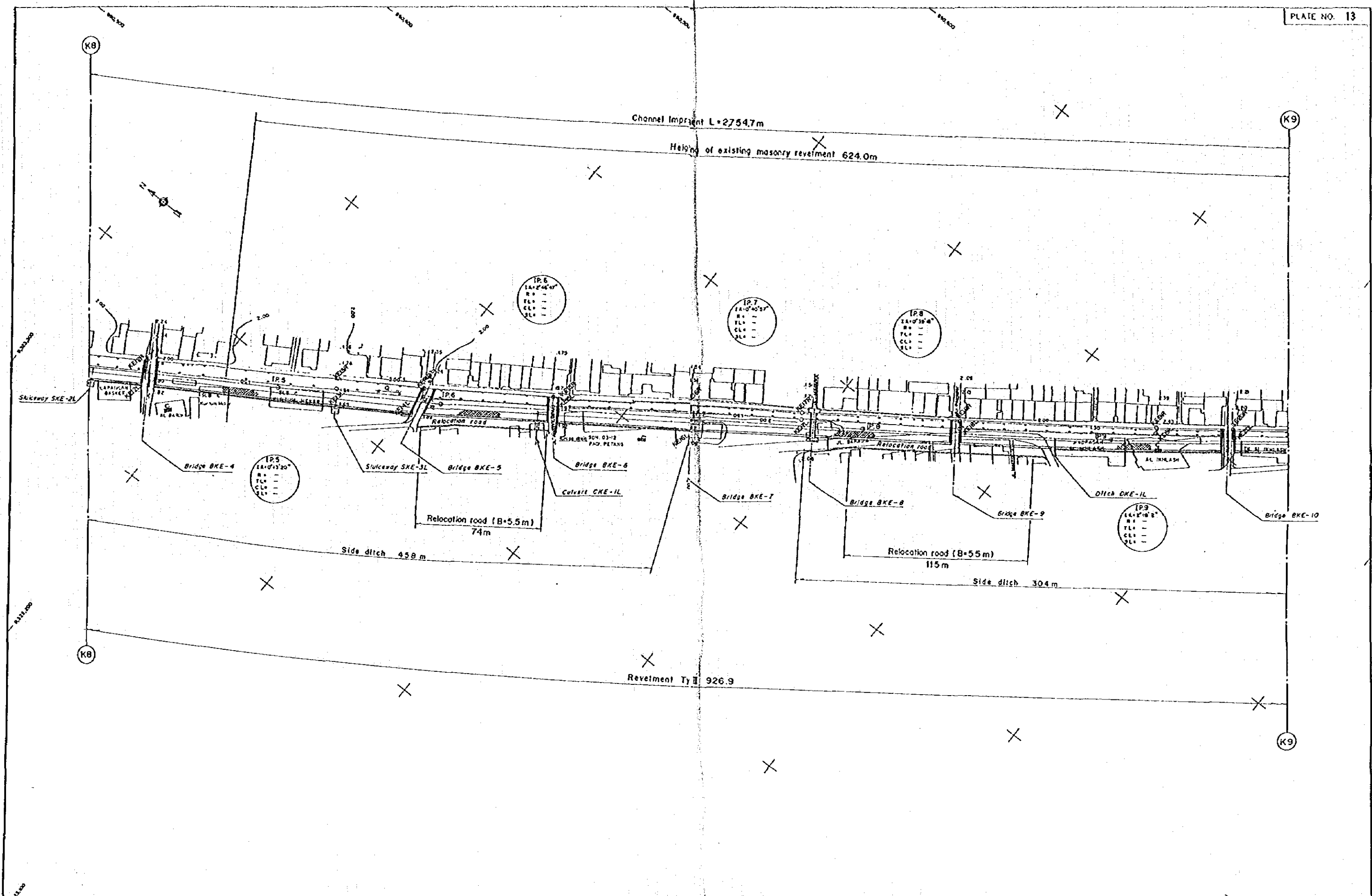
REFERENCE	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED	
	CHECKED.....		ORANAGE CHANNEL, PLAN, KAMAL DRAINAGE CHANNEL (MAIN) (6/7)		
	SUBMITTED.....		OWG NO.		DATE
	DATE.....		J-10-10-106		



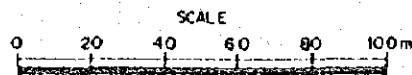
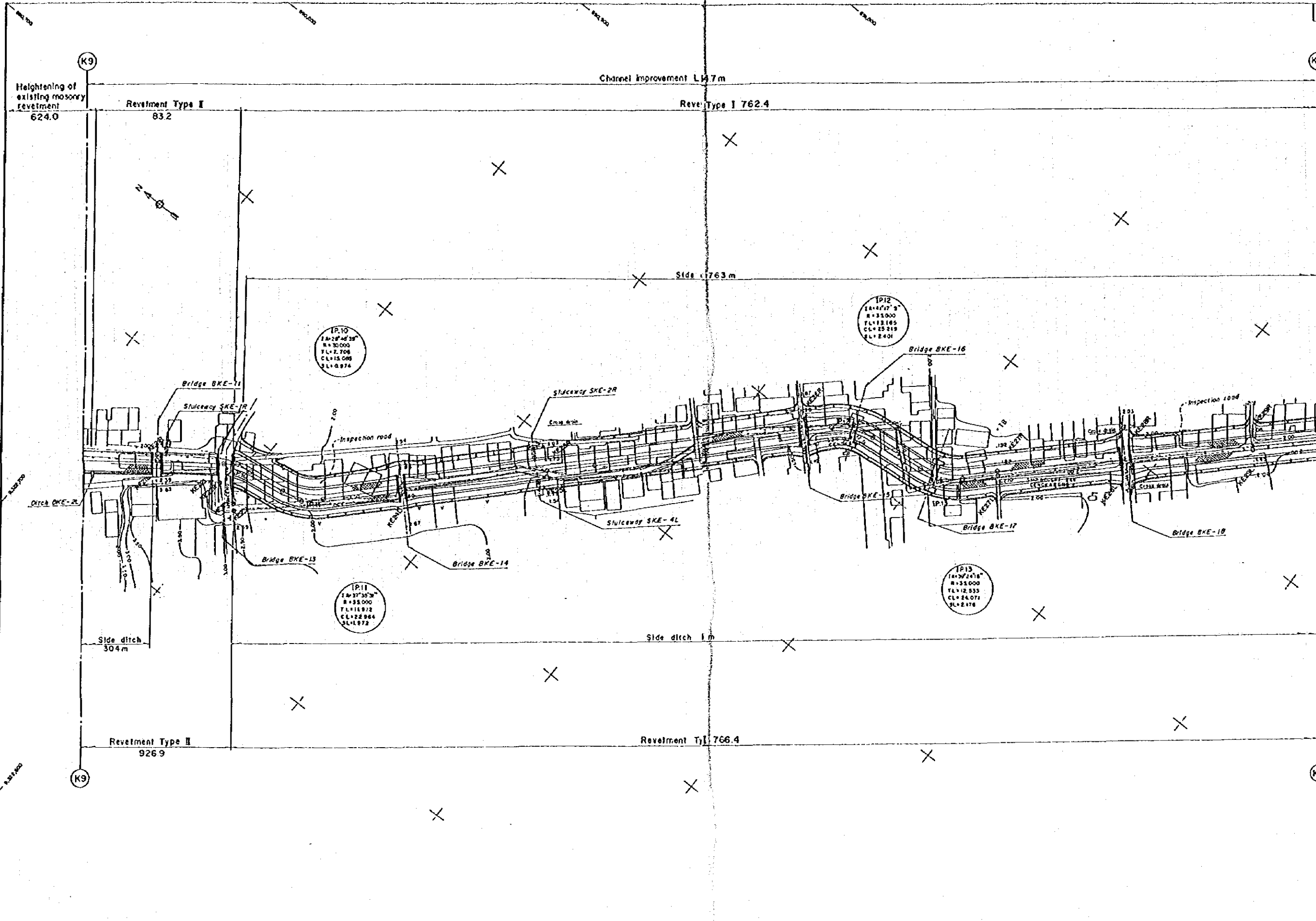
REFERENCE	OP. NO.	PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED
		CHECKED		DRAINAGE CHANNEL, PLAN, KAMAL DRAINAGE CHANNEL (MAIN) (7/7)	
DATE	DATE	SUBMITTED	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG NO.	DATE
		DATE		J - 10 - 10 - 107	



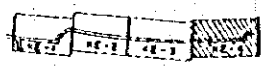
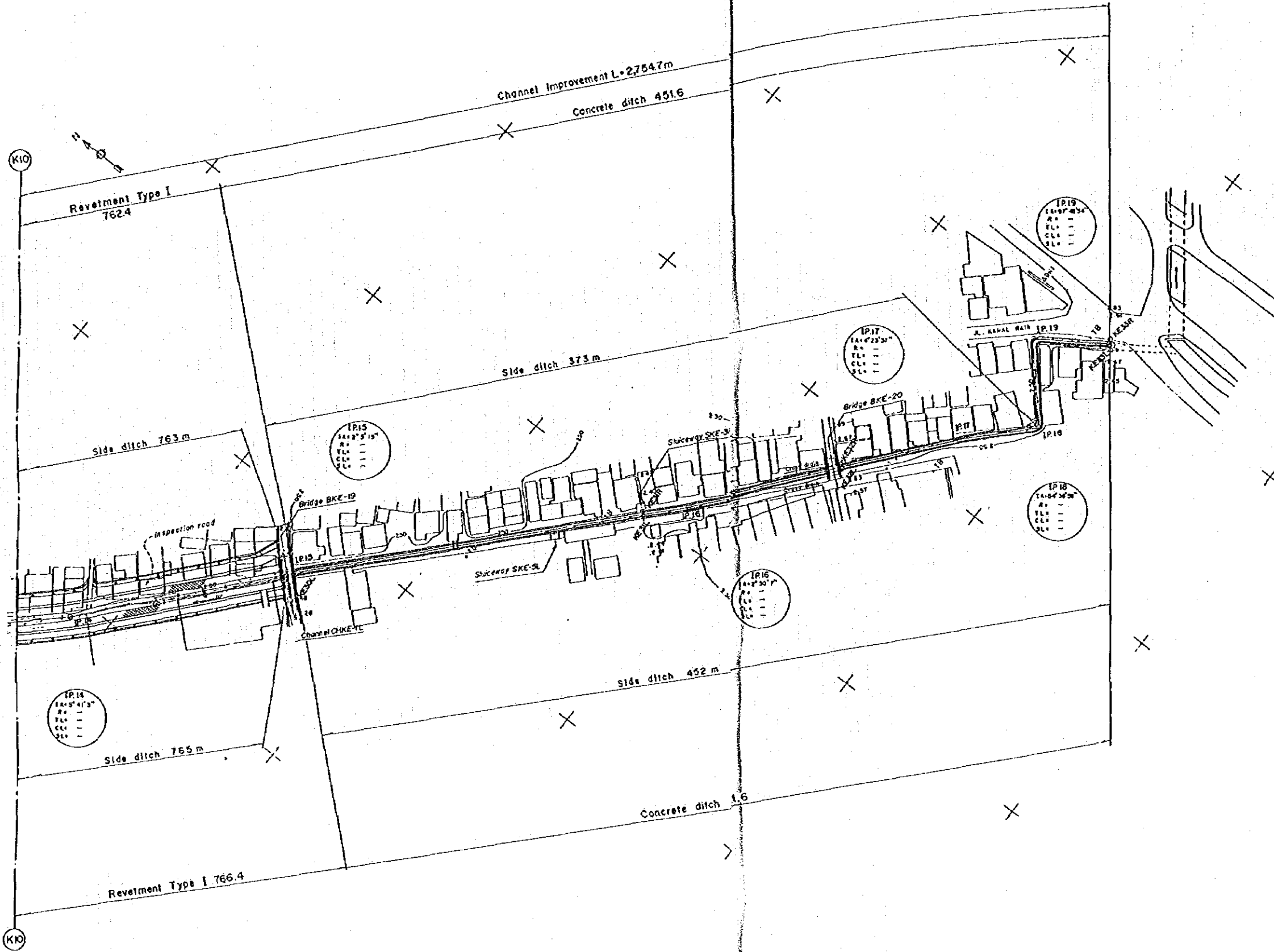
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		CHECKED.....		JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	
		SUBMITTED.....		DWG NO.	DATE
		DATE.....		J-10-10-201	



REFERENCE	DYNO	PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED
		CHECKED		JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	
		SUBMITTED		OWG NO.	DATE
		DATE		J-10-10-202	

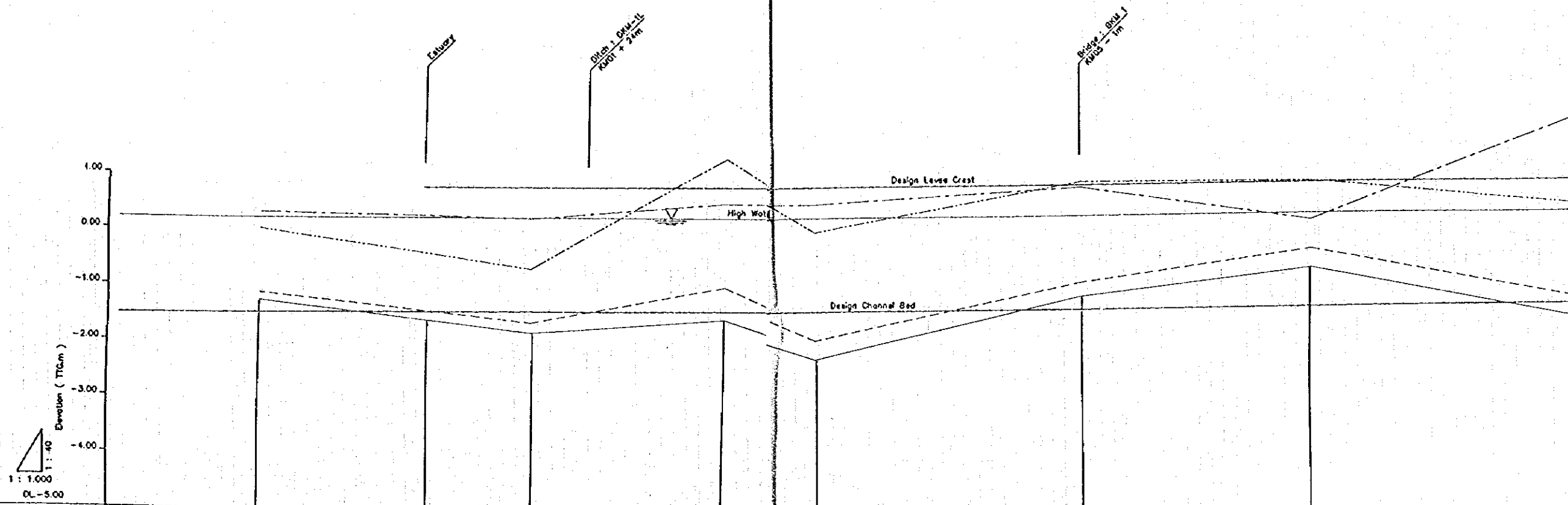


REFERENCE	D.NO.	PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED
		CHECKED.....		DRAINAGE CHANNEL, PLAN, KAMAL DRAINAGE CHANNEL (BRANCH) (3/4)	
		SUBMITTED.....	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT BY THE CITY OF JAKARTA	OWG NO.	DATE
		DATE.....		J-10-10-203	



SCALE
0 20 40 60 80 100m

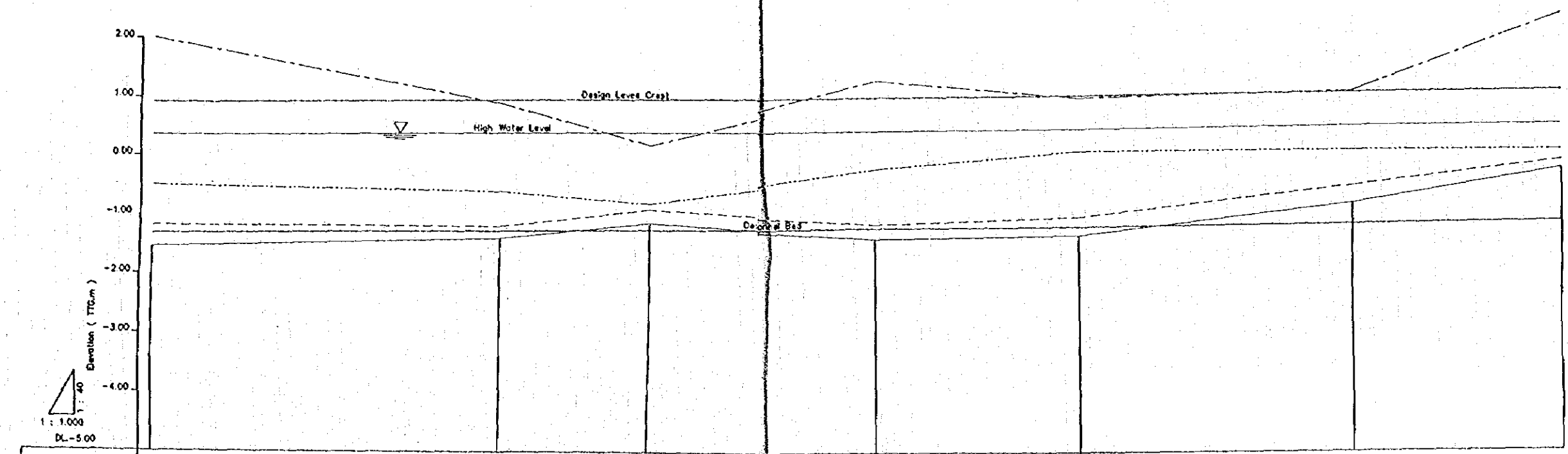
REFERENCE	DWG. NO.	PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING	APPROVED
		CHECKED		DRAINAGE CHANNEL, PLAN, KAMAL DRAINAGE CHANNEL (BRANCH) (4/4)	
		SUBMITTED	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	DWG. NO.	DATE
		DATE		J-10-10-204	



Design Discharge (m ³ /s)	48.1											
Design Levee Crest Slope	0.724											
Design Channel Bed Slope	-1.518											
Design Elevation (m)	Levee Crest											
	High Water Level	0.200										
	Channel Bed	-1.518	-1.500	-1.477	-1.435	-1.462	-1.435	-1.419	-1.332	-1.349	-1.313	-1.353
Present Elevation (m)	Left Bank		0.3	0.3	0.2	0.2	0.5	0.5	0.5	0.2	2.0	
	Right Bank		0.0	0.0	-0.7	-0.7	0.0	0.0	0.9	0.9	-0.5	
	Mean Channel Bed		-1.14	-1.14	-1.66	-1.66	-1.00	1.3	0.0	0.9	-1.18	
Lowest Bottom		-1.28	-1.28	-1.64	-1.64	-1.30	-1.30	-1.93	-0.90	-0.32	-1.54	
Cumulative Distance (m)	0.0	62.0	135.6	182.6	269.1	321.6	441.1	543.8	659.5	859.5		
Distance (m)		62.0	73.6	46.8	86.5	119.3	102.7	115.7				
Cross Section No.	BP	K00	K00'	K01	K02	K03	K05	K06	K07			

- NOTES:
- (1) Datum Level : Mean Sea Level (TTC)
 - (2) Left Bank Profile : - - - - -
 - (3) Right Bank Profile : - - - - -
 - (4) Mean Channel Bed : - - - - -
 - (5) Lowest Bottom : - - - - -

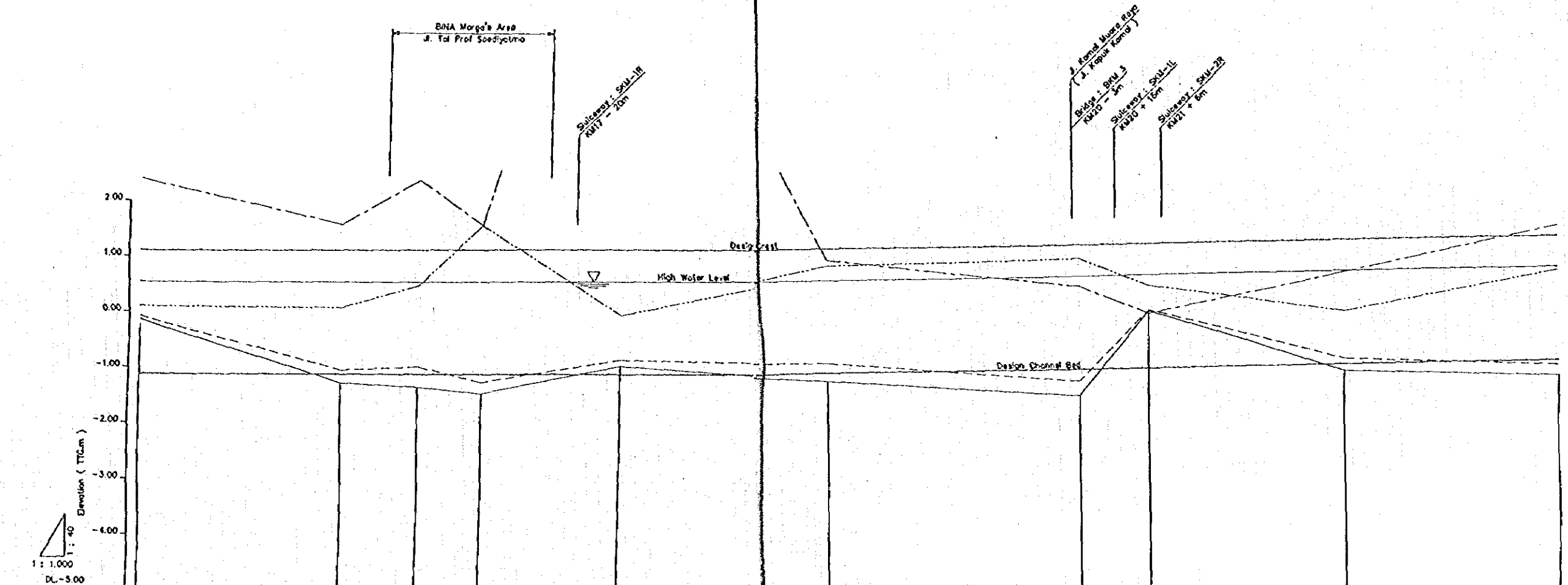
PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
CHECKED.....		DRAINAGE CHANNEL, PROFILE, KAMAL DRAINAGE CHANNEL (MAIN) (1/7)	
SUBMITTED.....		DWG NO.	DATE
DATE.....		J-10-20-101	
REFERENCE	DWG NO.		



Design Discharge (m ³ /s)	48.1									
Design Levee Crest Slope	1:1									
Design Channel Bed Slope	1:1									
Design Elevation (m)	Levee Crest	0.891	0.938	0.938	0.993	1.021	1.057	1.065		
	High Water Level	0.333	0.396	0.415	0.448	0.473	0.508	0.534	1.065	
	Channel Bed	-1.312	-1.268	-1.248	-1.214	-1.187	-1.151	-1.123	-1.123	0.534
Present Elevation (m)	Left Bank	2.0	0.9	0.2	1.3	1.0	1.1	2.4		
	Right Bank	-0.50	-0.6	-0.5	-0.2	0.1	0.1	0.1	0.1	0.1
Present Elevation (m)	Mean Channel Bed	-1.18	-1.19	-0.90	-1.15	-1.02	-0.50	-0.08	-0.08	0.1
	Lowest Bottom	-1.34	-1.39	-1.13	-1.40	-1.33	-0.80	-0.22	-0.22	0.1
Cumulative Distance (m)	699.5	806.6	866.5	978.1	1064.3	1179.4	1266.8	1266.8		
Distance (m)		146.1	62.9		66.2	115.1		87.5		
Cross Section No.	KM07	KM08	KM09	KM10	KM11	KM12	KM13			

- NOTES:
- (1) Datum Level : Mean Sea Level (TTG)
 - (2) Left Bank Profile : -----
 - (3) Right Bank Profile : -----
 - (4) Mean Channel Bed : -----
 - (5) Lowest Bottom : -----

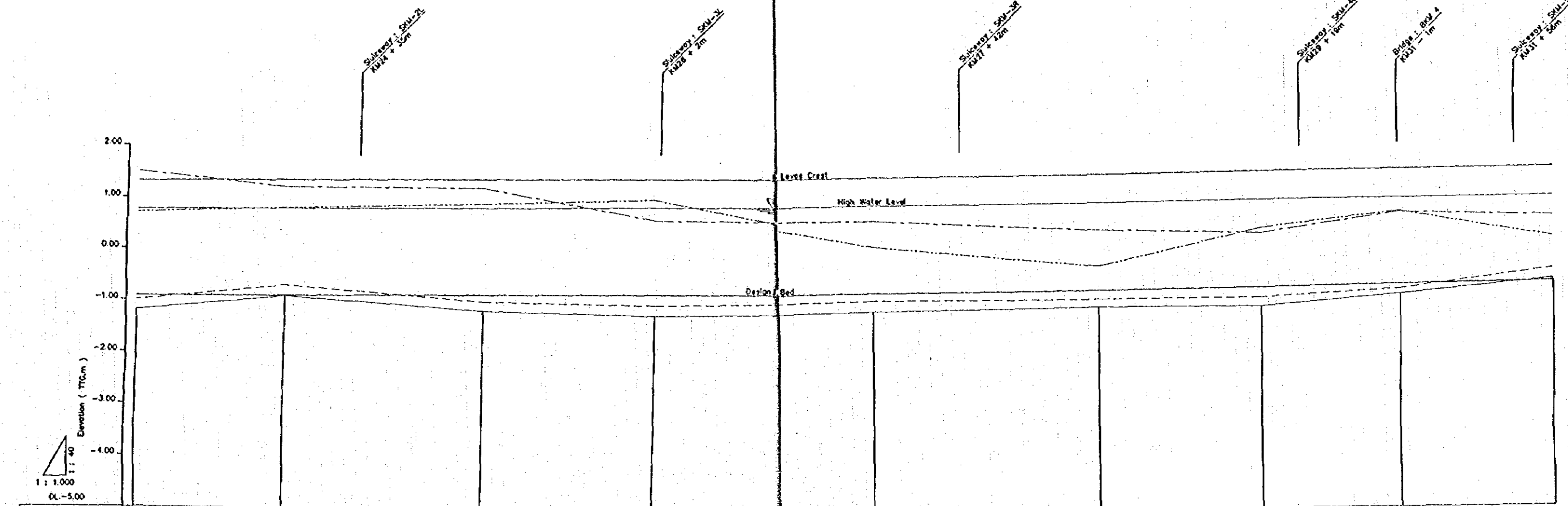
PREPARED.....	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
CHECKED.....		DRAINAGE CHANNEL PROFILE, KAMAL DRAINAGE CHANNEL (MAIN) (2/7)	
SUBMITTED.....		DWG NO.	DATE
DATE.....		J-10-20-102	
REFERENCE	DY NO.		



Design Discharge (m ³ /s)	48.1										47.9																																																																																																												
Design Levee Crest Slope											1=1/3,127																																																																																																												
Design Channel Bed Slope											1=1/3,200																																																																																																												
Design Elevation (m)	Levee Crest	1.005										1.114											1.125											1.225											1.234											1.263											1.293																																																				
	High Water Level	-1.23	0.334									0.561												0.640											0.682											0.693											0.760											0.780																																																			
	Channel Bed	-1.23	0.334									0.561												0.640											0.682											0.693											0.760											0.780																																																			
	Left Bank	2.4										1.6												0.9											1.0											0.5											0.0											0.7											1.5																																								
	Right Bank	0.1										0.1												0.9											1.0											0.5											0.0											0.7											1.5																																								
Present Elevation (m)	Mean Channel Bed	-0.06									-1.02												-0.85											-1.20											0.06											-0.85											-1.00											0.7											1.5																														
	Lowest Bottom	-0.22									-1.25												-0.91											-1.46											0.04											-1.07											-1.19											1.5																																									
Cumulative Distance (m)	1286.9										1337.3											1420.5											1482.5											1588.2											1702.5											1733.2											1821.2											1916.7																															
Distance (m)		30.4										35.0										28.2											62.0											106.7											113.3											30.7											86.0											95.5																															
Cross Section No.	KM13										KM14										KM15											KM16											KM17											KM18											KM19											KM20											KM21											KM22											KM23										

- NOTES:
- (1) Datum Level : Mean Sea Level (TTC)
 - (2) Left Bank Profile : - - - - -
 - (3) Right Bank Profile : - - - - -
 - (4) Mean Channel Bed : - - - - -
 - (5) Lowest Bottom : - - - - -

PREPARED		MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	TITLE OF DRAWING	APPROVED
CHECKED			DRAINAGE CHANNEL, PROFILE, KAMAL DRAINAGE CHANNEL (MAIN) (3/7)	
SUBMITTED			DWG NO.	DATE
DATE			J-10-20-103	
REFERENCE	DWG NO.			

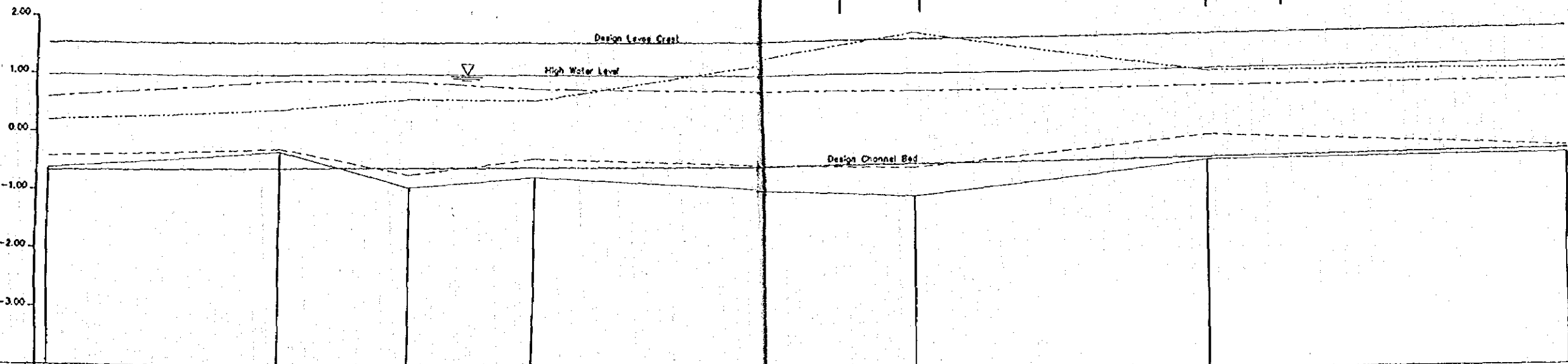
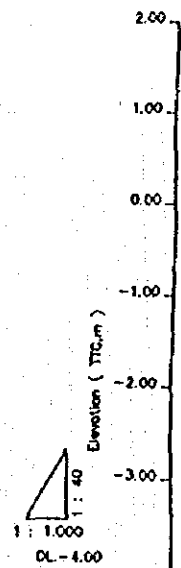


Design Discharge (m ³ /s)	47.9		41.6						
Design Levee Crest Slope									
Design Channel Bed Slope			1:1/3,200						
Design Elevation (m)	Levee Crest	1.293	1.316	1.373	1.411	1.446	1.471	1.493	1.516
	High Water Level	0.760	0.765	0.820	0.857	0.924	0.943	0.960	0.978
	Channel Bed	-0.920	-0.888	-0.860	-0.842	-0.805	-0.771	-0.746	-0.709
Present Elevation (m)	Left Bank	1.5	1.2	1.2	0.6	0.6	0.4	0.3	0.6
	Right Bank	0.7	0.8	0.9	1.0	0.1	-0.3	0.4	0.7
	Mean Channel Bed	-1.00	-0.70	-1.00	-1.05	-0.95	-0.94	-0.94	-0.80
Lowest Bottom	-1.19	-0.91	-1.18	-1.25	-1.16	-1.09	-1.11	-0.90	-0.62
Cumulative Distance (m)	1916.7	1988.7	2084.6	2166.9	2286.9	2395.4	2473.2	2540.7	2614.2
Distance (m)	72.0	95.9	82.3	108.6	77.6	67.5	75.5		
Cross Section No.	KM23	KM24	KM25	KM26	KM27	KM28	KM29	KM31	KM32

NOTES :

- (1) Datum Level : Mean Sea Level (ITC)
- (2) Left Bank Profile : _____
- (3) Right Bank Profile : _____
- (4) Mean Channel Bed : _____
- (5) Lowest Bottom : _____

PREPARED	MINISTRY OF PUBLIC WORKS DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	TITLE OF DRAWING DRAINAGE CHANNEL PROFILE, KAMAL DRAINAGE CHANNEL (MAIN) (4/7)	APPROVED
CHECKED	JAPAN INTERNATIONAL COOPERATION AGENCY THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT IN THE CITY OF JAKARTA	OWC NO. J-10-20-104	DATE
SUBMITTED			
DATE			
REFERENCE	DW NO.		



Design Discharge (m ³ /s)	41.6																				
Design Levee Crest Slope	1/3.127					1/2.337															
Design Channel Bed Slope	1/1.80																				
Design Elevation (m)	Levee Crest	1.316	1.548	1.572	1.595	1.671	1.725	1.791													
	High Water Level	0.978	1.004	1.021	1.037	1.096	1.143	1.204													
Present Elevation (m)	Channel Bed	-0.668	-0.613	-0.502	-0.552	-0.453	-0.383	-0.297													
	Left Bank	0.6	0.9	0.9	0.8	0.8	0.9	0.9													
Present Elevation (m)	Right Bank	0.2	0.4	0.6	0.6	1.5	1.1	1.1													
	Mean Channel Bed	-0.42	-0.28	-0.70	-0.40	-0.52	0.00	-0.25													
Cumulative Distance (m)	Lowest Bottom	-0.62	-0.33	-0.92	-0.72	-1.01	-0.43	-0.37													
	Distance (m)	2614.2	2713.9	2769.5	2822.7	3001.1	3126.7	3281.6													
Distance (m)		98.7	55.6	53.2	178.4	125.6	154.9														
Cross Section No.	KM32		KM33		KM34		KM35		KM36		KM37		KM38		KM39		KM40		KM41		KM42

- NOTES:
- (1) Datum Level : Mean Sea Level (TTC)
 - (2) Left Bank Profile : _____
 - (3) Right Bank Profile : _____
 - (4) Mean Channel Bed : _____
 - (5) Lowest Bottom : _____

PREPARED	MINISTRY OF PUBLIC WORKS	TITLE OF DRAWING	APPROVED
CHECKED	DIRECTORATE GENERAL OF HUMAN SETTLEMENTS	DRAINAGE CHANNEL PROFILE, KAMAL DRAINAGE CHANNEL (MAIN) (5/7)	
SUBMITTED	JAPAN INTERNATIONAL COOPERATION AGENCY	DWG NO.	DATE
DATE	THE DETAILED DESIGN FOR URBAN DRAINAGE PROJECT	J-10-20-105	
REFERENCE	BY THE CITY OF JAKARTA		