

LEGEND

	Existing Barrier Utilizing Railway, Road Embankment		Existing Drainage Pipe, Box Culvert
	Proposed Barrier, to be Newly Constructed		Proposed Drainage Pipe, Box Culvert
	Klong to be Improved (with Rectangular Section)		Existing Pumping Station
	Klong to be Improved (with Trapezoidal Section)		Proposed Pumping Station
			Existing Gate
		W; Wooden Gate	
		S; Steel Gate	

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TO ADJOINING SHEETS

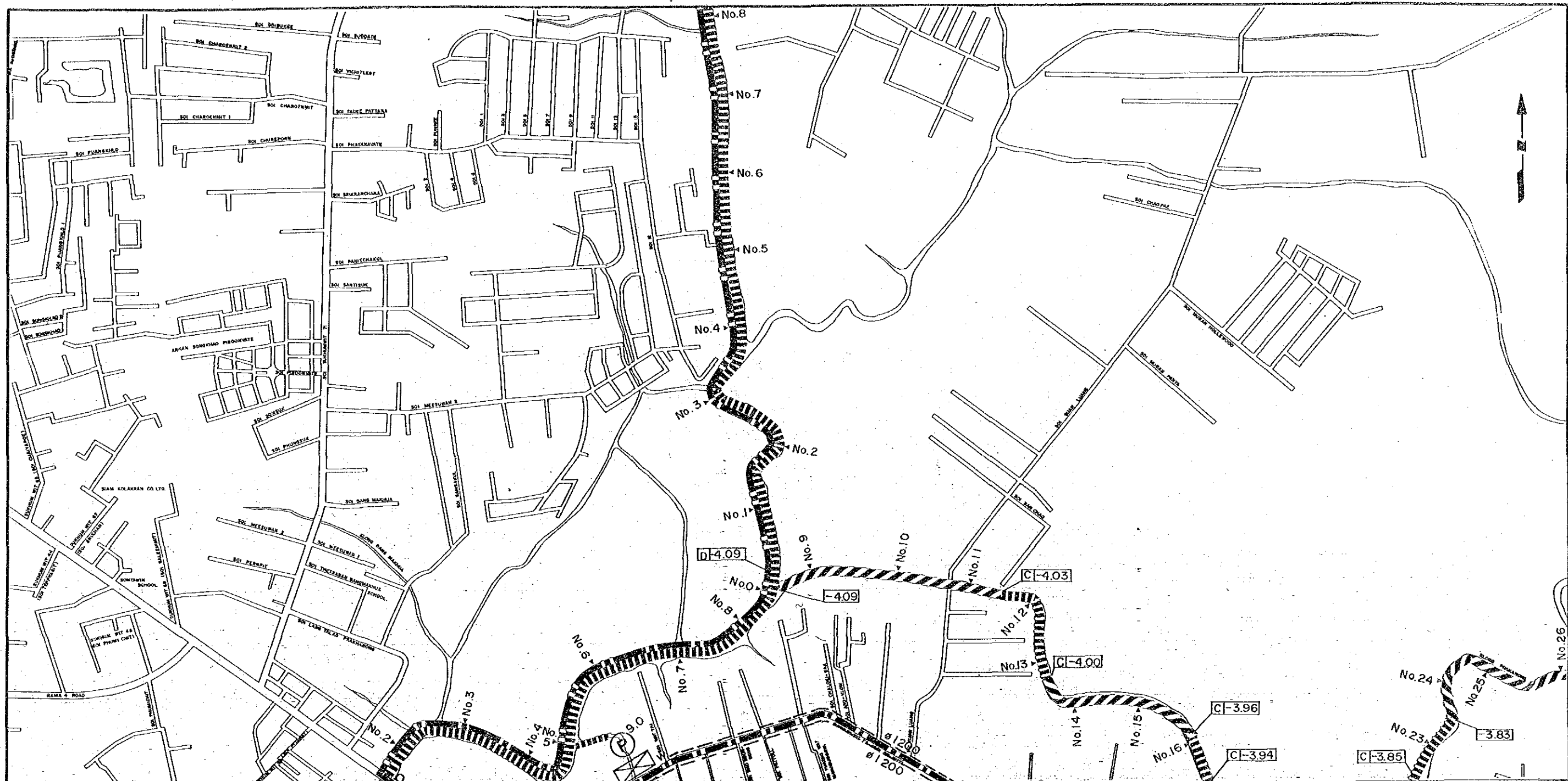
I-22	J-22	K-22
		K-23
	J-24	K-24

0 100 200 300 400 500m
SCALE 1 : 10,000

DWG. E.25

PLAN OF PROPOSED FACILITIES (24)

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



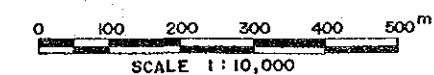
LEGEND

- | | | | |
|--|--|--|--|
| | Existing Barrier Utilizing
Railway, Road Embankment | | Existing Drainage Pipe,
Box Culvert |
| | Proposed Barrier,
to be Newly Constructed | | Proposed Drainage Pipe,
Box Culvert |
| | Klong to be Improved
(with Rectangular Section) | | Existing Pumping Station |
| | Klong to be Improved
(with Trapezoidal Section) | | Proposed Pumping Station |
| | | | Existing Gate
W; Wooden Gate
S; Steel Gate |

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	J-24	K-24
I-25	J-25	K-25



DWG. E.26

PLAN OF PROPOSED FACILITIES (25)

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



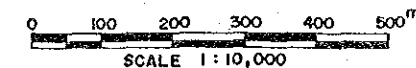
LEGEND

- | | | | |
|--|---|--|-------------------------------------|
| | Existing Barrier Utilizing Railway, Road Embankment | | Existing Drainage Pipe, Box Culvert |
| | Proposed Barrier, to be Newly Constructed | | Proposed Drainage Pipe, Box Culvert |
| | Klong to be Improved (with Rectangular Section) | | Existing Pumping Station |
| | Klong to be Improved (with Trapezoidal Section) | | Proposed Pumping Station |
| | Existing Gate
W; Wooden Gate
S; Steel Gate | | |

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I-27	J-27	K-27



DWG. E.28

PLAN OF PROPOSED FACILITIES (27)

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



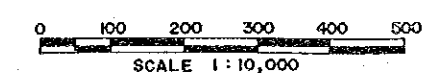
LEGEND

- | | | | |
|--|--|--|--|
| | Existing Barrier Utilizing
Railway, Road Embankment | | Existing Drainage Pipe,
Box Culvert |
| | Proposed Barrier,
to be Newly Constructed | | Proposed Drainage Pipe,
Box Culvert |
| | Klong to be Improved
(with Rectangular Section) | | Existing Pumping Station |
| | Klong to be Improved
(with Trapezoidal Section) | | Proposed Pumping Station |
| | | | Existing Gate
W; Wooden Gate
S; Steel Gate |

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I-27	J-27	K-27



DWG. E.29

PLAN OF PROPOSED FACILITIES (28)

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



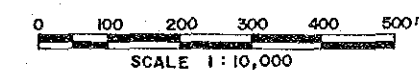
LEGEND

- | | | | |
|--|--|--|--|
| | Existing Barrier Utilizing
Railway, Road Embankment | | Existing Drainage Pipe,
Box Culvert |
| | Proposed Barrier,
to be Newly Constructed | | Proposed Drainage Pipe,
Box Culvert |
| | Klong to be Improved
(with Rectangular Section) | | Existing Pumping Station |
| | Klong to be Improved
(with Trapezoidal Section) | | Proposed Pumping Station |
| | | | Existing Gate
W; Wooden Gate
S; Steel Gate |

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DWG. E.30

PLAN OF PROPOSED FACILITIES (29)

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



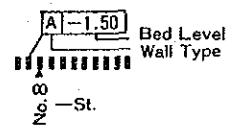
LEGEND



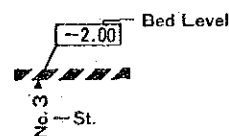
Existing Barrier Utilizing
Railway, Road Embankment



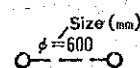
Proposed Barrier,
to be Newly Constructed



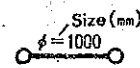
Klong to be Improved
(with Rectangular Section)



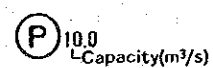
Klong to be Improved
(with Trapezoidal Section)



Existing Drainage Pipe,
Box Culvert



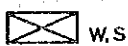
Proposed Drainage Pipe,
Box Culvert



Existing Pumping Station



Proposed Pumping Station

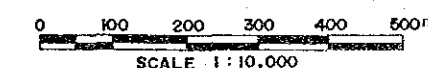


Existing Gate
W; Wooden Gate
S; Steel Gate

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TO ADJOINING SHEETS

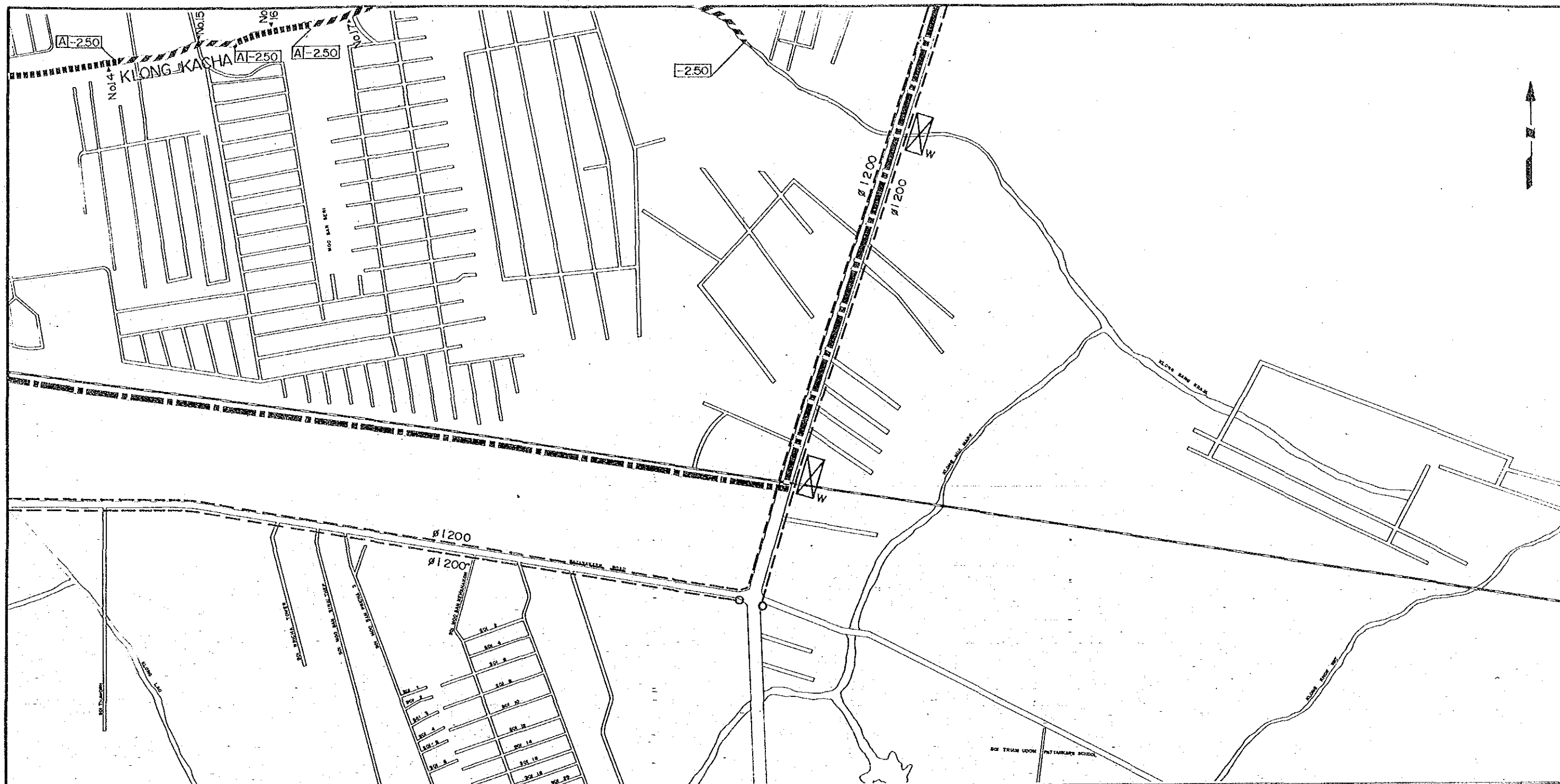
J-21	K-21
J-22	K-22
J-23	K-23



DWG. E.31

PLAN OF PROPOSED FACILITIES (30)

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



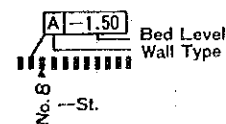
LEGEND



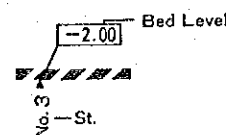
Existing Barrier Utilizing
Railway, Road Embankment



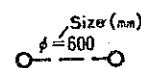
Proposed Barrier,
to be Newly Constructed



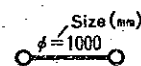
Klong to be Improved
(with Rectangular Section)



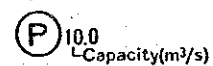
Klong to be Improved
(with Trapezoidal Section)



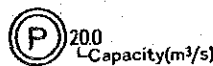
Existing Drainage Pipe,
Box Culvert



Proposed Drainage Pipe,
Box Culvert



Existing Pumping Station



Proposed Pumping Station

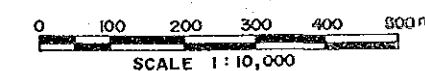


Existing Gate
W; Wooden Gate
S; Steel Gate

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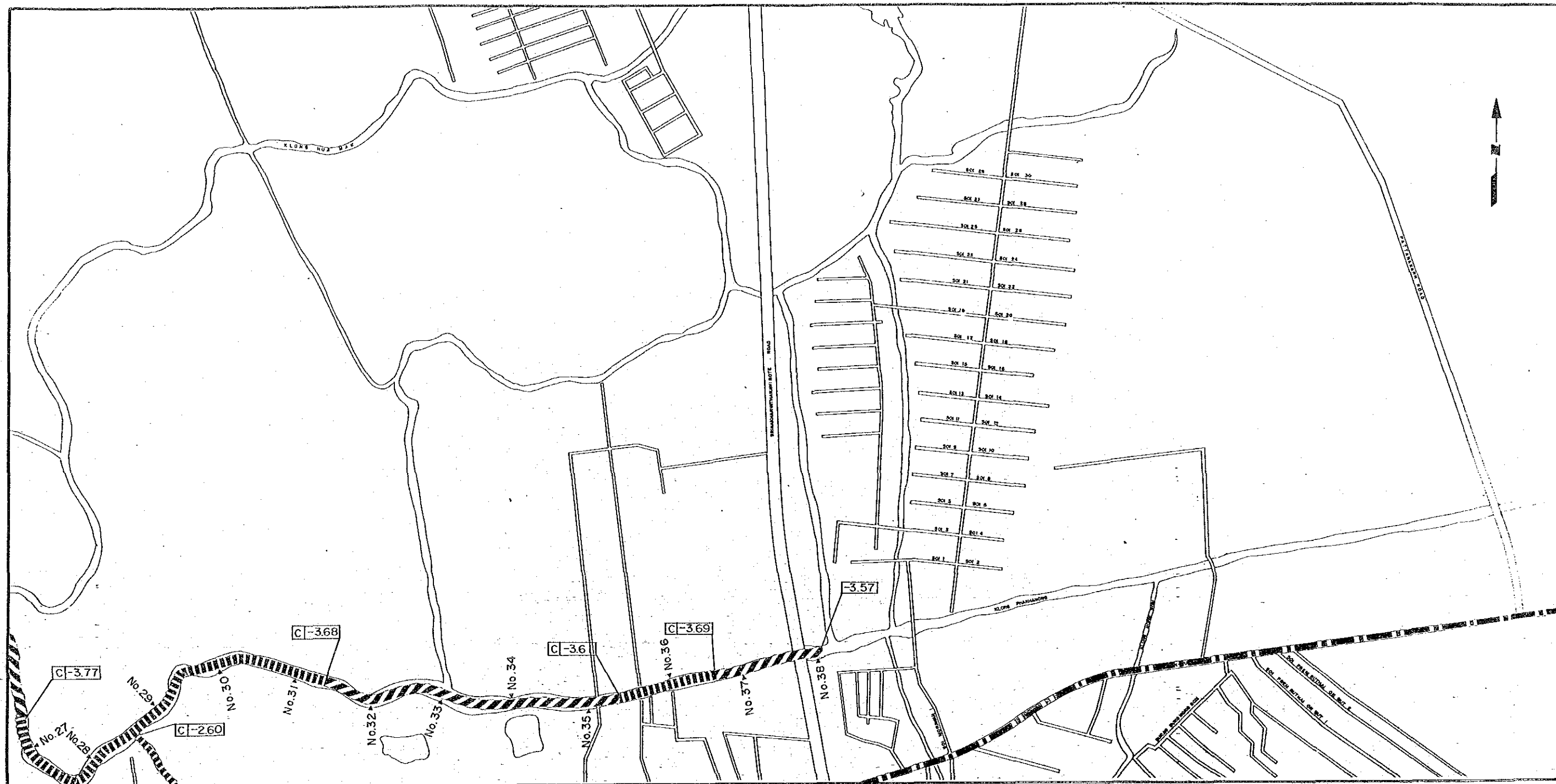
J-22	K-22
J-23	K-23
J-24	K-24



DWG. E.32

PLAN OF PROPOSED FACILITIES (31)

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



LEGEND

- | | | | |
|--|---|--|-------------------------------------|
| | Existing Barrier Utilizing Railway, Road Embankment | | Existing Drainage Pipe, Box Culvert |
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| | Klong to be Improved (with Trapezoidal Section) | | Proposed Pumping Station |
| | Existing Gate | | W; Wooden Gate
S; Steel Gate |

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J-24	K-24
J-25	K-25

0 100 200 300 400 500m
SCALE 1 : 10,000

DWG. E.33

PLAN OF PROPOSED FACILITIES (32)

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



LEGEND

- | | | | |
|--|--|--|--|
| | Existing Barrier Utilizing
Railway, Road Embankment | | Existing Drainage Pipe,
Box Culvert |
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to be Newly Constructed | | Proposed Drainage Pipe,
Box Culvert |
| | Klong to be Improved
(with Rectangular Section) | | Existing Pumping Station |
| | Klong to be Improved
(with Trapezoidal Section) | | Proposed Pumping Station |
| | | | Existing Gate
W; Wooden Gate
S; Steel Gate |

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J-24	K-24
J-25	K-25
J-26	K-26

0 100 200 300 400 500m
SCALE 1:10,000

DWG. E.34

PLAN OF PROPOSED FACILITIES (33)

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN BANGKOK



LEGEND

- | | | | |
|--|--|--|--|
| | Existing Barrier Utilizing
Railway, Road Embankment | | Existing Drainage Pipe,
Box Culvert |
| | Proposed Barrier,
to be Newly Constructed | | Proposed Drainage Pipe,
Box Culvert |
| | Klong to be Improved
(with Rectangular Section) | | Existing Pumping Station |
| | Klong to be Improved
(with Trapezoidal Section) | | Proposed Pumping Station |
| | | | Existing Gate
W; Wooden Gate
S; Steel Gate |

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TO ADJOINING SHEETS

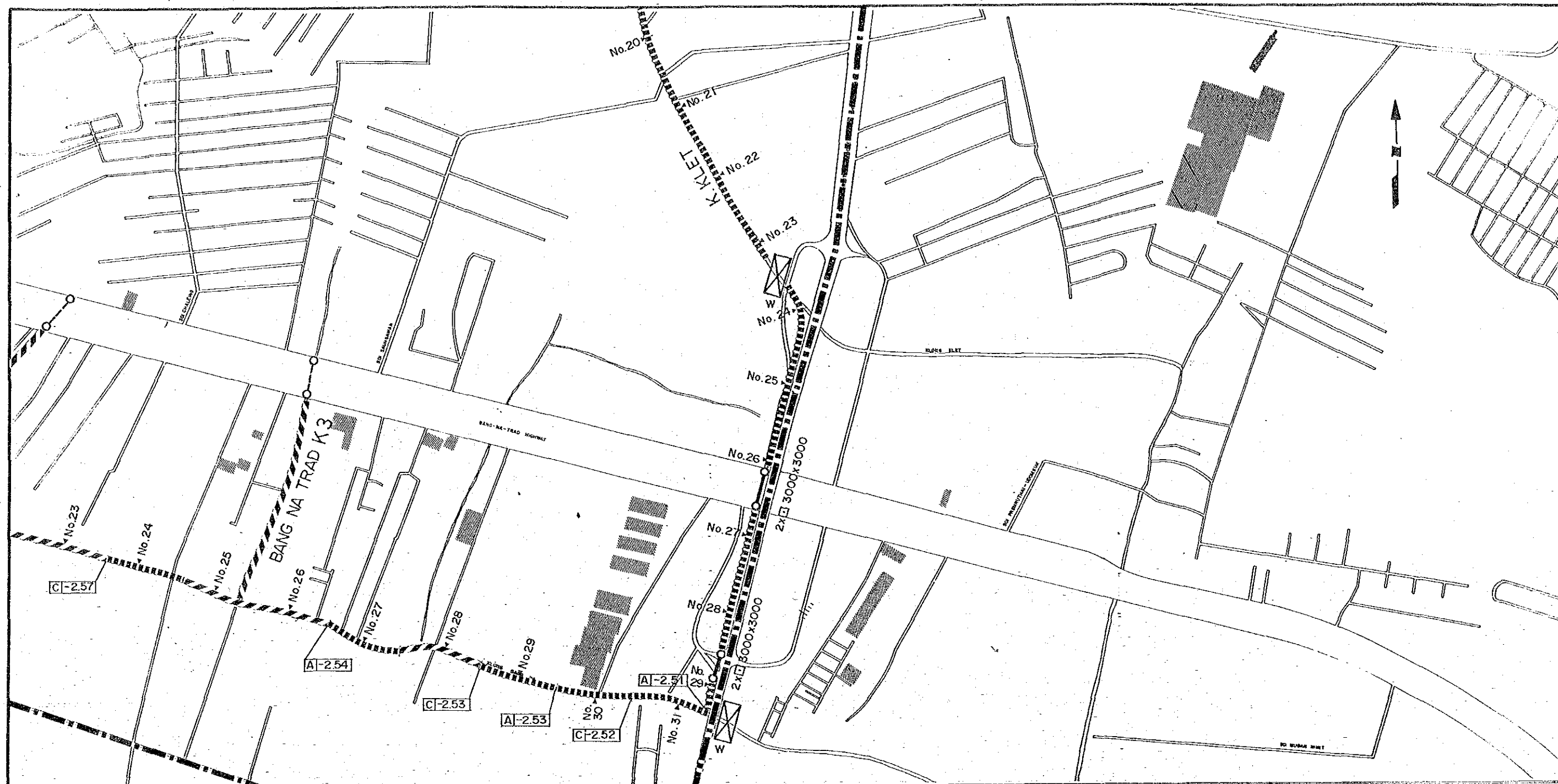
J-25	K-25
J-26	K-26
J-27	K-27

0 100 200 300 400 500m
SCALE 1:10,000

DWG. E.35

PLAN OF PROPOSED FACILITIES (34)

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



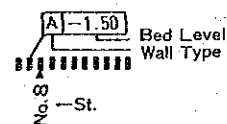
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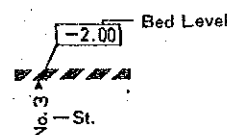
Existing Barrier Utilizing
Railway, Road Embankment



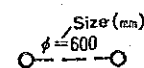
Proposed Barrier,
to be Newly Constructed



Klong to be Improved
(with Rectangular Section)



Klong to be Improved
(with Trapezoidal Section)



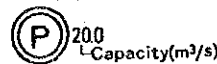
Existing Drainage Pipe,
Box Culvert



Proposed Drainage Pipe,
Box Culvert



Existing Pumping Station



Proposed Pumping Station

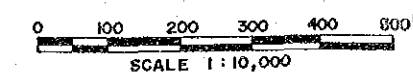


Existing Gate
W; Wooden Gate
S; Steel Gate

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J-27	K-27



DWG. E.36

PLAN OF PROPOSED FACILITIES (35)

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK

F. KLONG IMPROVEMENT (PROFILE/CROSS SECTION)

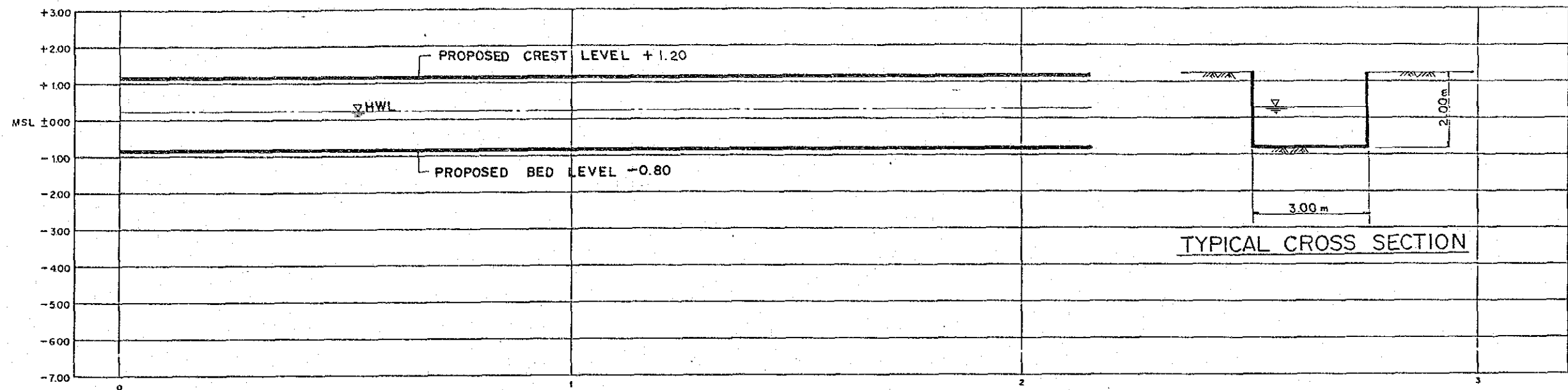
(77 SHEETS)

KLONG	DWG. NO.		KLONG	DWG. NO.	
	PROFILE	CROSS SECTION		PROFILE	CROSS SECTION
- Bang Khen Bang Sue Polder -			- Ram Khamhaeng Polder -		
1. K.Lat Yao	F. 2	-	14. K.Kacha	F.26	F.64
2. K.Phaya Wake	3	F.39	15. K.Gig	28	66
3. K.Bang Sue	4	40			
4. Kasesart Ditch	7	43	- Bang Na Polder -		
5. Ratchada Ditch	8	-	16. K.Kwang Bon, K.Bang Lai	F.29	F.67
- Phra Khanong Polder -			17. K.Kwang Bon	31	69
6. K.Na Song, K.Huay Kwang	F. 9	F.44	18. K.Bang Na Chine	32	70
7. K.Yai Soon	11	46	19. K.Bang Na Jen	33	-
8. K.Lat Phrao	12	47	20. K.Jek	34	72
9. K.Chao Khun Sing	14	50	21. K.Bang Chak	35	73
10. K.Sam Saen	15	51	22. K.Bang Oa	-	74
11. K.Saen Saep	17	54	23. K.Bang Na	36	75
12. K.Phra Khanong	20	58			
13. K.Tan	24	62			

DWG. F.1

DRAWING INDEX FOR KLONG IMPROVEMENT

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOPELEV OF RETAINING WALL	+ 1.20										
PROPOSED BOTTOM ELEV OF KHLONG	- 0.80										
EXISTING ELEV OF LEFT BANK	+ 1.20 (ASSUMED)										
EXISTING ELEV OF RIGHT BANK	+ 1.20 (ASSUMED)										
EXISTING BOTTOM ELEV OF KHLONG	+ 0.20 (ASSUMED)										
ACCUMULATE DISTANCE (KM)	0.00	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00
NO	0	1	2	3	4	5	6	7	8	9	10

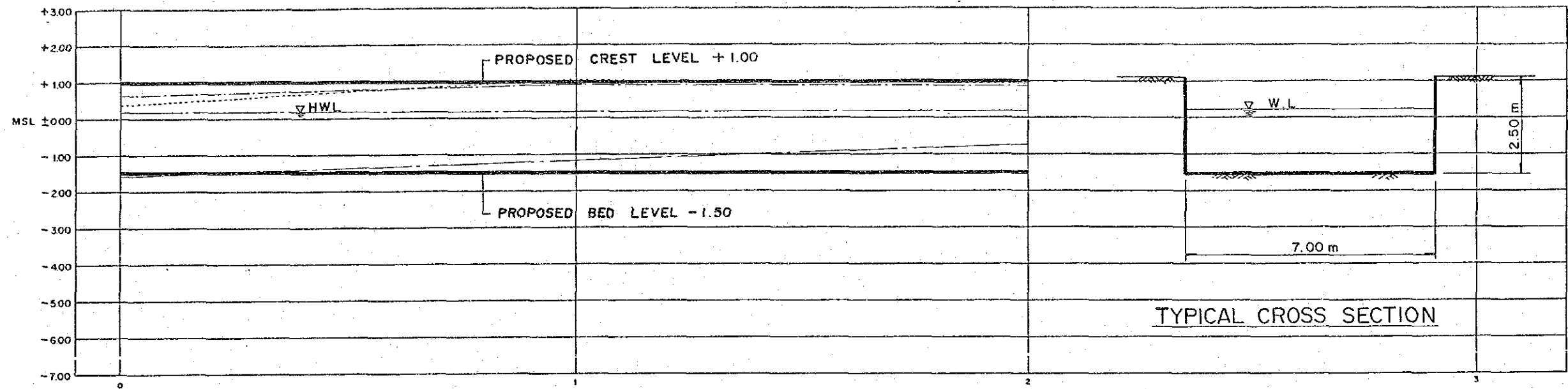
LEGEND

- EXISTING RIGHT GROUND LINE
- EXISTING LEFT GROUND LINE
- EXISTING BOTTOM LINE
- PROPOSED CREST AND BED LINE

DWG. F.2

KLONG IMPROVEMENT (PROFILE) -K.LAT YAO-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOP ELEV OF RETAINING WALL	+ 1.00														
PROPOSED BOTTOM ELEV OF KHLONG	- 1.50														
EXISTING ELEV OF LEFT BANK	0.69					0.97					0.92				
EXISTING ELEV OF RIGHT BANK	0.40					1.04					0.99				
EXISTING BOTTOM ELEV OF KHLONG	-1.71					-1.23					-0.83				
ACCUMULATE DISTANCE (KM)	0.00	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
NO.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

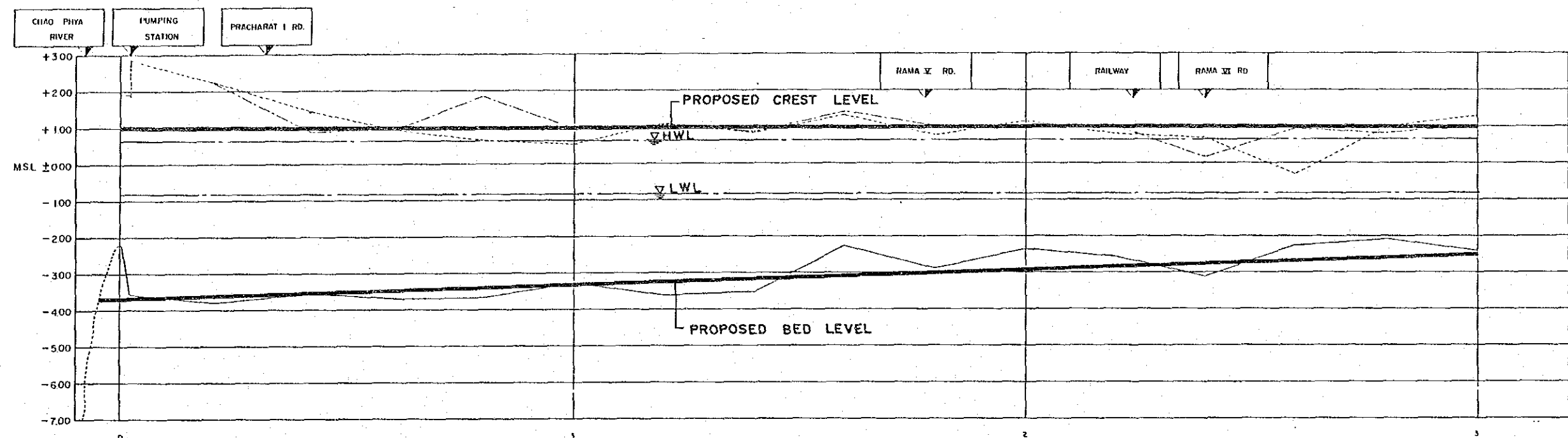
LEGEND

- EXISTING RIGHT GROUND LINE
- EXISTING LEFT GROUND LINE
- EXISTING BOTTOM LINE
- PROPOSED CREST AND BED LINE

DWG. F.3

KLONG IMPROVEMENT (PROFILE) -K.PHAYA WAKE-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOPELEV OF RETAINING WALL	+1.00														
PROPOSED BOTTOM ELEV OF KHLONG	-3.67	-3.59	-3.52	-3.44	-3.37	-3.29	-3.21	-3.14	-3.06	-2.98	-2.91	-2.83	-2.76	-2.68	-2.60
EXISTING ELEV OF LEFT BANK	1.99	2.23	0.87	0.98	1.84	0.94	1.06	0.85	1.41	1.02	0.99	1.01	0.16	0.94	0.82
EXISTING ELEV OF RIGHT BANK	1.84	2.24	1.44	0.88	0.63	0.33	1.09	0.23	1.32	0.77	1.15	0.80	0.69	-0.28	1.00
EXISTING BOTTOM ELEV OF KHLONG	-2.20	-2.60	-3.33	-3.66	-3.66	-3.27	-2.60	-3.52	-2.86	-2.89	-2.35	-2.36	-3.12	-2.26	-2.04
ACCUMULATE DISTANCE (KM.)	0.00	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
NO.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

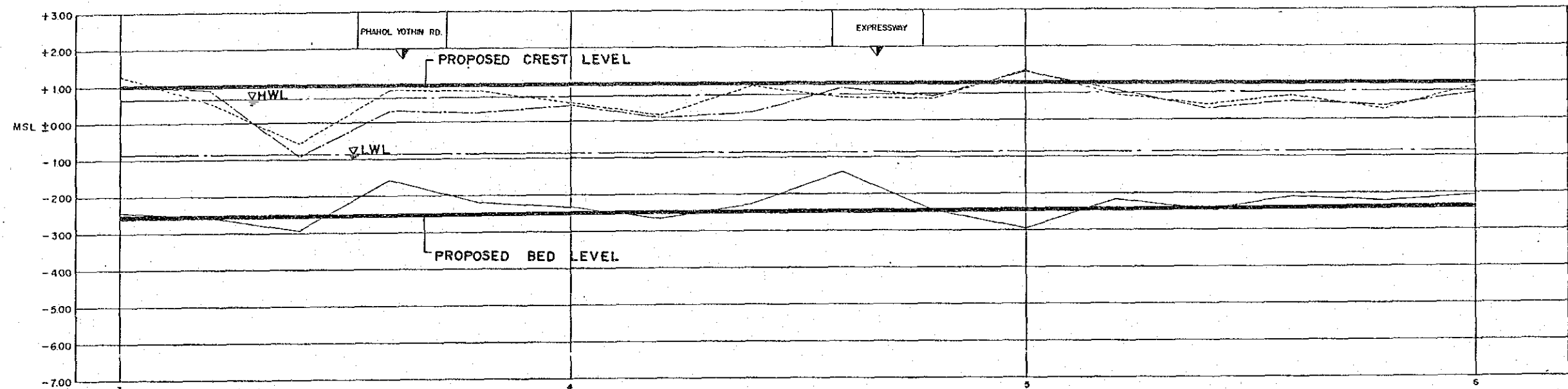
LEGEND

- EXISTING RIGHT GROUND LINE
- EXISTING LEFT GROUND LINE
- EXISTING BOTTOM LINE
- PROPOSED CREST AND BED LINE

DWG. F.4

KLONG IMPROVEMENT (PROFILE) -K.BANG SUE(1)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOPELEV OF RETAINING WALL	+ 1.00															
PROPOSED BOTTOM ELEV OF KHLONG	-2.53	-2.45	-2.38	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30
EXISTING ELEV OF LEFT BANK	105	0.88	1.08	0.52	0.88	0.43	0.10	0.23	0.89	0.66	1.32	0.80	0.29	0.48	0.35	0.71
EXISTING ELEV OF RIGHT BANK	130	0.56	1.44	0.88	0.87	0.52	0.16	0.96	0.64	0.58	1.35	0.69	0.41	0.64	0.27	0.91
EXISTING BOTTOM ELEV OF KHLONG	-2.42	-2.35	-2.90	-1.56	-2.17	-2.31	-2.84	-2.25	-1.39	-2.44	-2.97	-2.16	-2.44	-2.11	-2.23	-2.05
ACCUMULATE DISTANCE (KM)	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00
NO	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

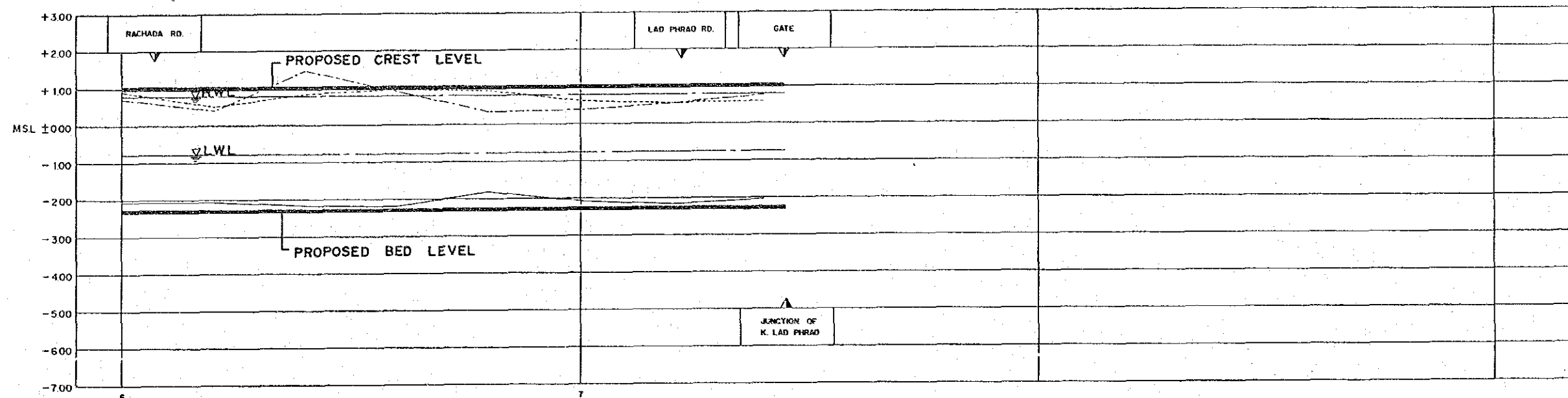
LEGEND

- EXISTING RIGHT GROUND LINE
- EXISTING LEFT GROUND LINE
- EXISTING BOTTOM LINE
- PROPOSED CREST AND BED LINE

DWG. F.5

KLONG IMPROVEMENT (PROFILE) -K.BANG SUE(2)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOPELEV OF RETAINING WALL	+ 1.00									
PROPOSED BOTTOM ELEV OF KHLONG	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30
EXISTING ELEV. OF LEFT BANK	0.71	0.42	1.45	0.90	0.33	0.38	0.52	0.74	0.75	
EXISTING ELEV. OF RIGHT BANK	0.91	0.52	0.85	0.96	0.92	0.66	0.33	0.58	0.60	
EXISTING BOTTOM ELEV OF KHLONG	-2.03	-2.04	-2.15	-2.18	-1.80	-2.06	-2.15	-2.04	-2.10	
ACCUMULATE DISTANCE (KM)	6.00	6.20	6.40	6.60	6.90	7.00	7.20	7.40	7.44 (END)	
NO	30	31	32	33	34	35	36	37	38	

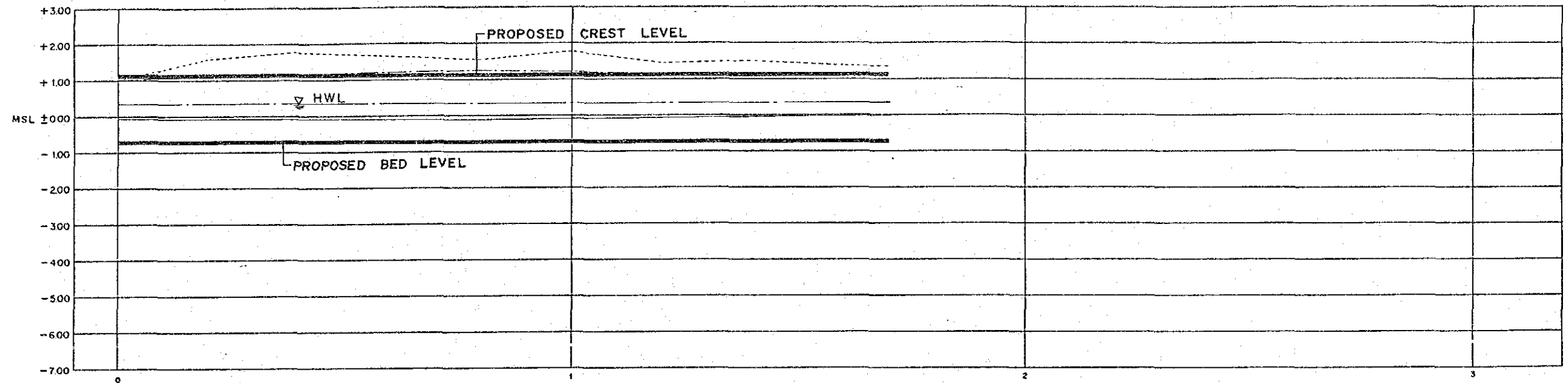
LEGEND

- EXISTING RIGHT GROUND LINE
- EXISTING LEFT GROUND LINE
- EXISTING BOTTOM LINE
- PROPOSED CREST AND BED LINE

DWG. F.6

KLONG IMPROVEMENT (PROFILE) -K.BANG SUE(3)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOP ELEV OF RETAINING WALL	+ 1.10																
PROPOSED BOTTOM ELEV OF KHLONG	- 0.70																
EXISTING ELEV. OF LEFT BANK	+1.00	+1.20	+1.20	+1.20	+1.25	+1.25	+1.20	+1.20	+1.10	+1.10							
EXISTING ELEV. OF RIGHT BANK	+1.00	+1.60	+1.80	+1.70	+1.60	+1.80	+1.50	+1.80	+1.40	+1.40							
EXISTING BOTTOM ELEV OF KHLONG	-0.004	-0.004	-0.070	-0.080	-0.140	-0.090	-0.080	-0.070	-0.020	-0.020							
ACCUMULATE DISTANCE (KM.)	0.00	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.75	1.80	2.00	2.20	2.40	2.60	2.80	3.00
NO.	0	1	2	3	4	5	6	7	8	8.5	9	10	11	12	13	14	15

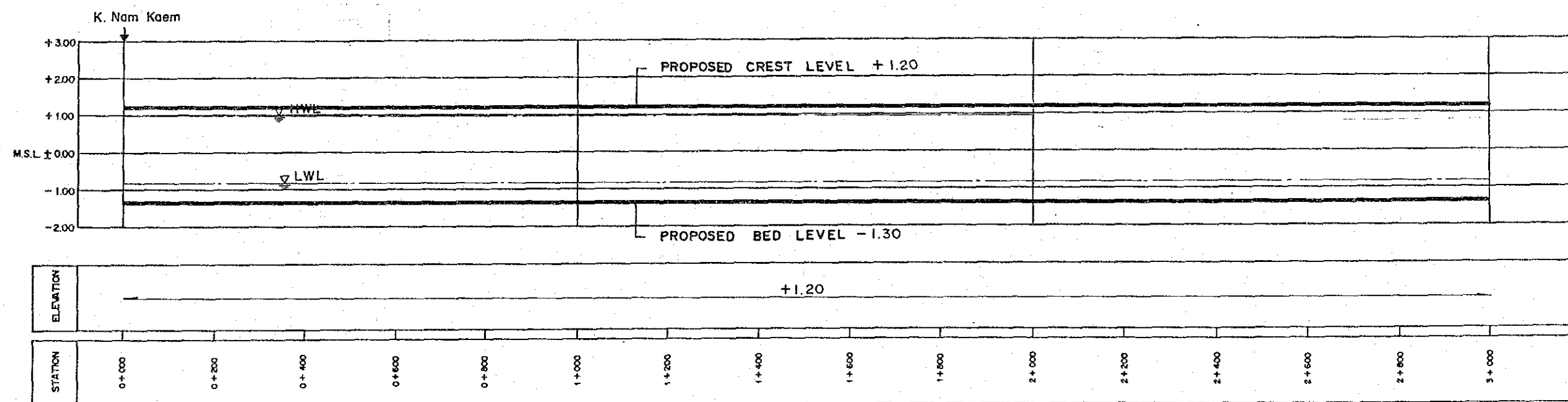
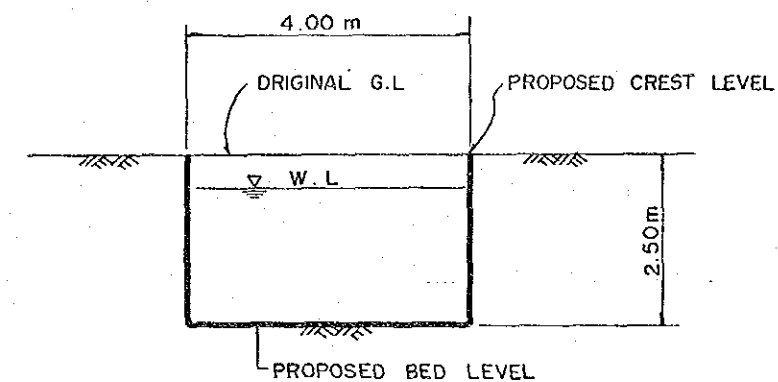
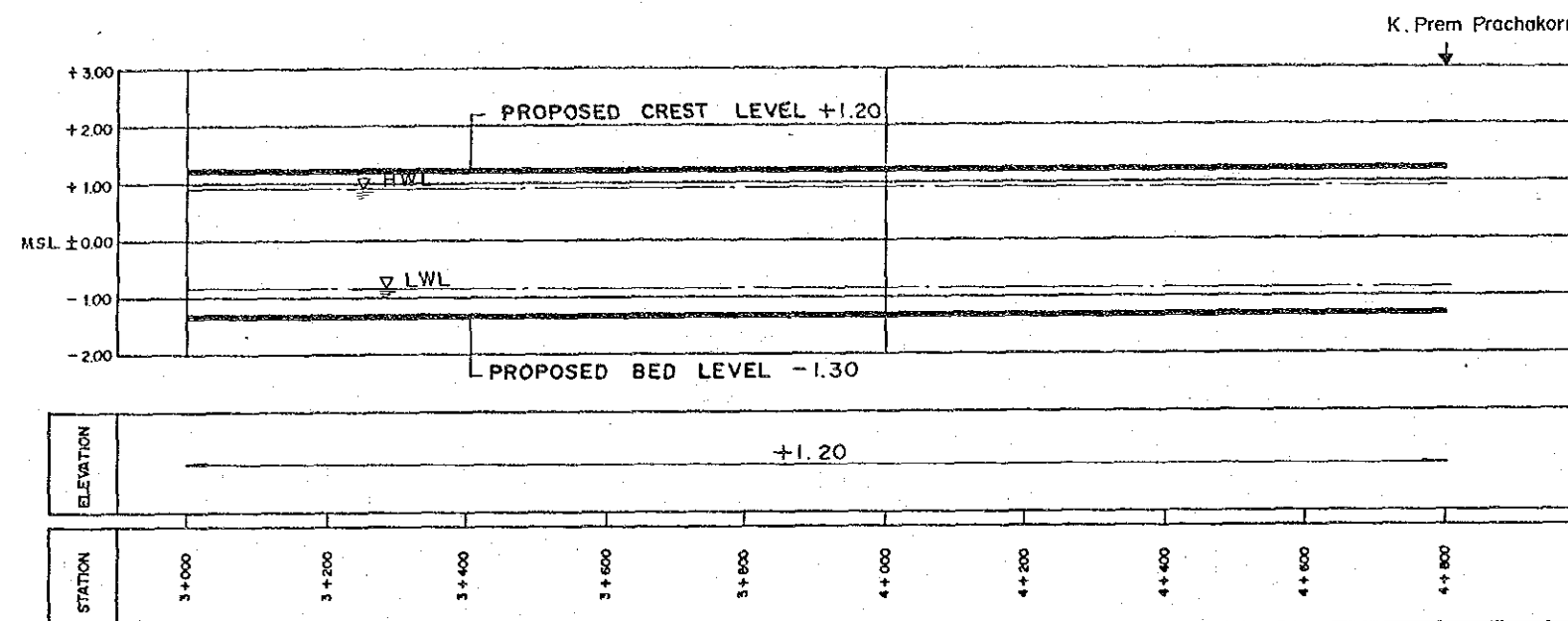
LEGEND

-----	EXISTING RIGHT GROUND LINE	-----	PROPOSED CREST AND BED LINE
-----	EXISTING LEFT GROUND LINE		
-----	EXISTING BOTTOM LINE		

DWG. F.7

KLONG IMPROVEMENT (PROFILE) -KASESART DITCH-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



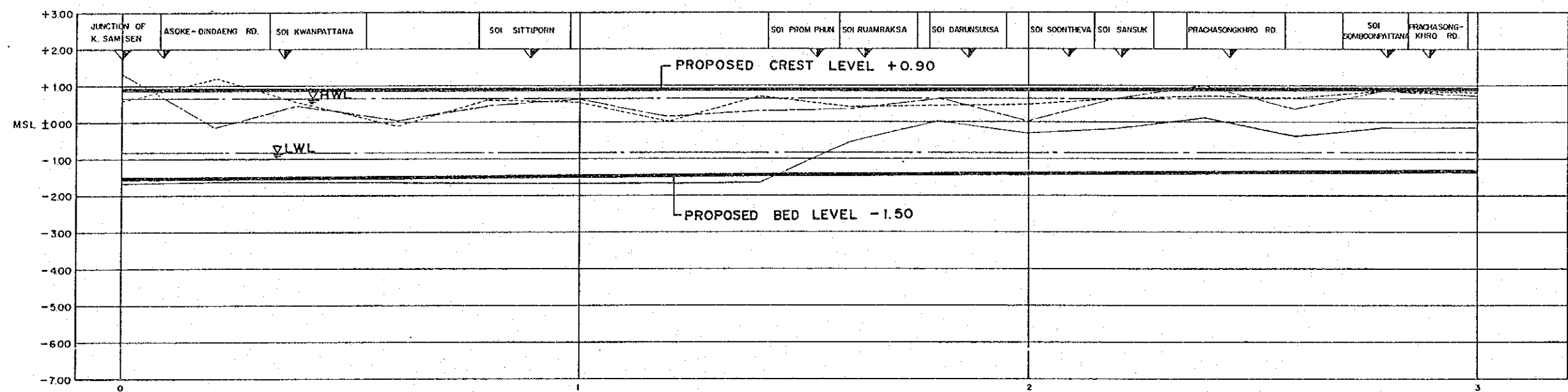
LEGEND

- | | | | |
|-------|----------------------------|-------|-----------------------------|
| ----- | EXISTING RIGHT GROUND LINE | ————— | PROPOSED CREST AND BED LINE |
| ----- | EXISTING LEFT GROUND LINE | | |
| ————— | EXISTING BOTTOM LINE | | |

DWG. F.8

KLONG IMPROVEMENT (PROFILE) -RATCHADA DITCH-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOPELEV OF RETAINING WALL	<div><div></div><div>+0.90</div><div></div></div>															
PROPOSED BOTTOM ELEV OF KHLONG	<div><div></div><div>-1.50</div><div></div></div>															
EXISTING ELEV. OF LEFT BANK	1.20	-0.15	0.45	0.05	0.45	0.60	0.15	0.30	0.35	0.65	0.01	0.65	1.00	0.35	0.85	0.70
EXISTING ELEV. OF RIGHT BANK	0.58	1.20	0.55	-0.10	0.60	0.55	0.02	0.71	0.41	0.45	0.45	0.65	0.71	0.65	0.85	0.80
EXISTING BOTTOM ELEV OF KHLONG	-1.66	-1.64	-1.64	-1.65	-1.67	-1.67	-1.68	-1.66	-0.57	0.00	-0.30	-0.20	0.10	-0.40	-0.15	-0.15
ACCUMULATE DISTANCE (K.M.)	0.00	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00
NO.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

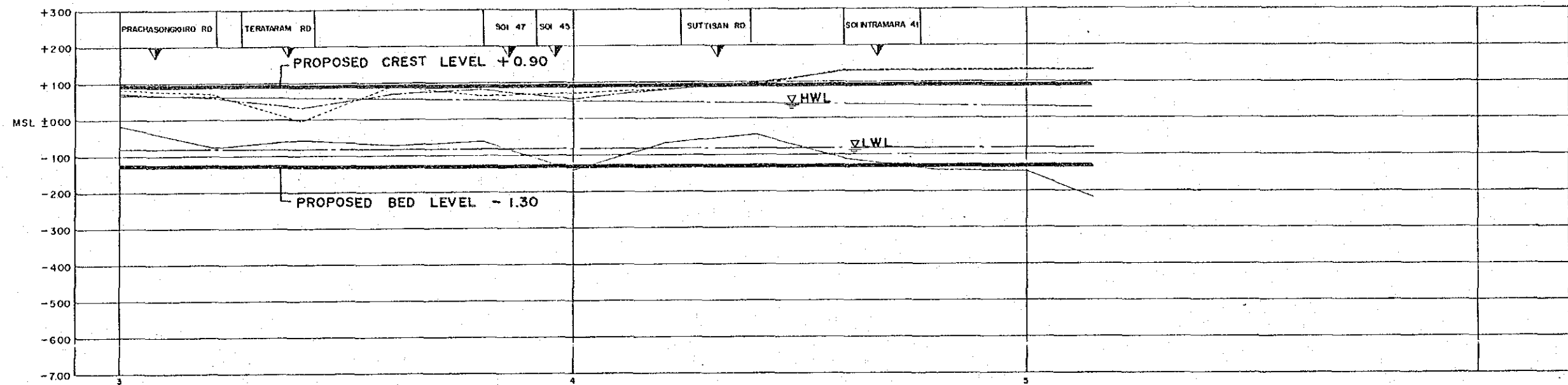
LEGEND

-----	EXISTING RIGHT GROUND LINE	-----	PROPOSED CREST AND BED LINE
-----	EXISTING LEFT GROUND LINE		
-----	EXISTING BOTTOM LINE		

DWG. F.9

KLONG IMPROVEMENT (PROFILE) -K.NA SONG, K.HUAY KWANG(1)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOPELEV OF RETAINING WALL	+0.90											
PROPOSED BOTTOM ELEV OF KHLONG	-1.30											
EXISTING ELEV OF LEFT BANK	0.70	0.60	0.50	0.69	0.81	0.55	0.80	0.99	1.30	1.30	1.30	1.30
EXISTING ELEV OF RIGHT BANK	0.80	0.70	0.55	0.91	0.61	0.72	0.84	0.90	1.31	1.32	1.31	1.31
EXISTING BOTTOM ELEV OF KHLONG	-0.15	-0.70	-0.55	-0.70	-0.61	-1.43	-0.67	-0.44	-1.09	-1.37	-1.44	-2.18
ACCUMULATE DISTANCE (KM)	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.15
NO	15	16	17	18	19	20	21	22	23	24	25	26

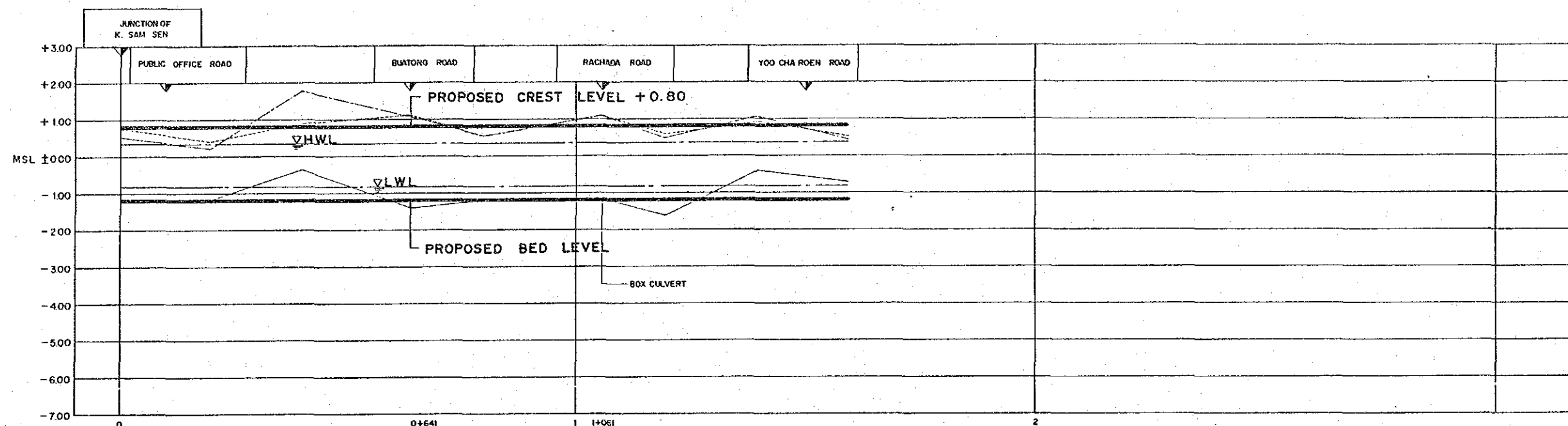
LEGEND

- EXISTING RIGHT GROUND LINE
- EXISTING LEFT GROUND LINE
- EXISTING BOTTOM LINE
- PROPOSED CREST AND BED LINE

DWG. F.10

KLONG IMPROVEMENT (PROFILE) -K.NA SONG, K.HUAY KWANG(2)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOPELEV. OF RETAINING WALL	+0.80									
PROPOSED BOTTOM ELEV. OF KHLONG	-1.20									
EXISTING ELEV. OF LEFT BANK	0.51	0.19	1.75	1.07	0.32	1.09	0.48	1.05	0.44	
EXISTING ELEV. OF RIGHT BANK	0.74	0.40	0.68	1.12	0.51	1.09	0.60	0.90	0.51	
EXISTING BOTTOM ELEV. OF KHLONG	-1.21	-1.19	-0.37	-1.41	-1.21	-1.15	-1.62	-0.40	-0.71	
ACCUMULATE DISTANCE (K.M.)	0.00	0.20	0.40	0.64	0.80	1.06	1.20	1.40	1.60 (END)	
NO.	0	1	2	3	4	5	6	7	8	

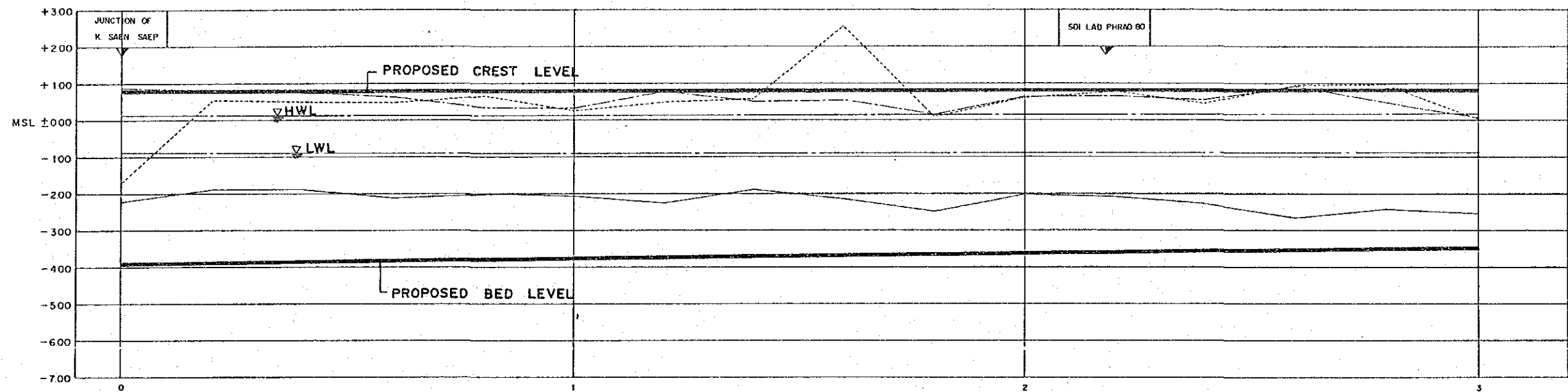
LEGEND

----- EXISTING RIGHT GROUND LINE
 ----- EXISTING LEFT GROUND LINE
 ----- EXISTING BOTTOM LINE
 ----- PROPOSED CREST AND BED LINE

DWG. F.11

KLONG IMPROVEMENT (PROFILE) -K.YAI SOON-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOPELEV. OF RETAINING WALL	+ 0.80														
PROPOSED BOTTOM ELEV. OF KHLONG	-3.90	-3.87	-3.84	-3.80	-3.77	-3.74	-3.71	-3.68	-3.64	-3.61	-3.58	-3.55	-3.52	-3.48	-3.44
EXISTING ELEV. OF LEFT BANK	0.89	0.82	0.76	0.64	0.55	0.33	0.79	0.50	0.54	0.13	0.63	0.65	0.45	0.90	0.07
EXISTING ELEV. OF RIGHT BANK	-1.69	0.55	0.50	0.49	0.67	0.25	0.49	0.58	2.53	0.10	0.58	0.77	0.43	0.92	0.33
EXISTING BOTTOM ELEV. OF KHLONG	-2.19	-1.89	-1.87	-2.10	-2.00	-2.07	-2.25	-1.87	-2.14	-2.49	-2.02	-2.09	-2.29	-2.68	-2.44
ACCUMULATE DISTANCE (KM)	0.00	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	3.00
NO	0	1	2	3	4	5	6	7	8	9	10	11	12	13	15

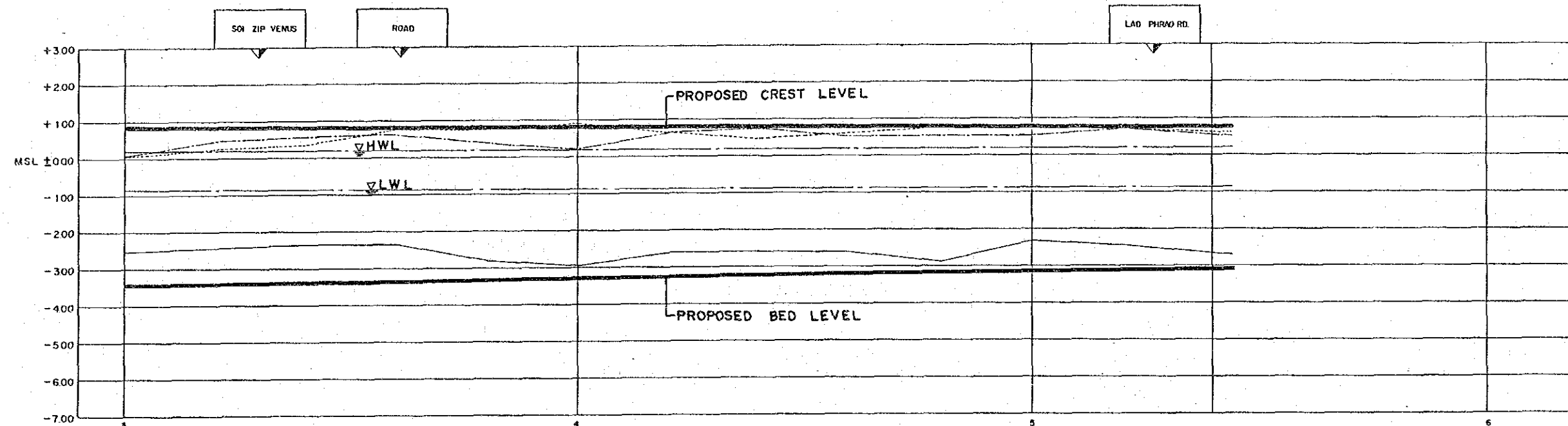
LEGEND

----- EXISTING RIGHT GROUND LINE
 ----- EXISTING LEFT GROUND LINE
 ----- EXISTING BOTTOM LINE
 ----- PROPOSED CREST AND BED LINE

DWG. F.12

KLONG IMPROVEMENT (PROFILE) -K.LAT PHRAO(1)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOP ELEV. OF RETAINING WALL	+0.80												
PROPOSED BOTTOM ELEV. OF KHLONG	-3.42	-3.39	-3.36	-3.32	-3.29	-3.26	-3.23	-3.20	-3.16	-3.13	-3.10	-3.07	-3.04
EXISTING ELEV. OF LEFT BANK	0.07	0.45	0.97	0.64	0.40	0.21	0.64	0.75	0.53	0.95	0.54	0.73	0.55
EXISTING ELEV. OF RIGHT BANK	0.02	0.23	0.35	0.75	0.74	0.91	0.86	0.47	0.62	0.77	0.76	0.72	0.62
EXISTING BOTTOM ELEV. OF KHLONG	-2.55	-2.45	-2.35	-2.36	-2.50	-2.93	-2.60	-2.58	-2.60	-2.88	-2.31	-2.43	-2.64
ACCUMULATE DISTANCE (K.M.)	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40
NO	15	16	17	18	19	20	21	22	23	24	25	26	27
													5.47 (END)

LEGEND

----- EXISTING RIGHT GROUND LINE

----- EXISTING LEFT GROUND LINE

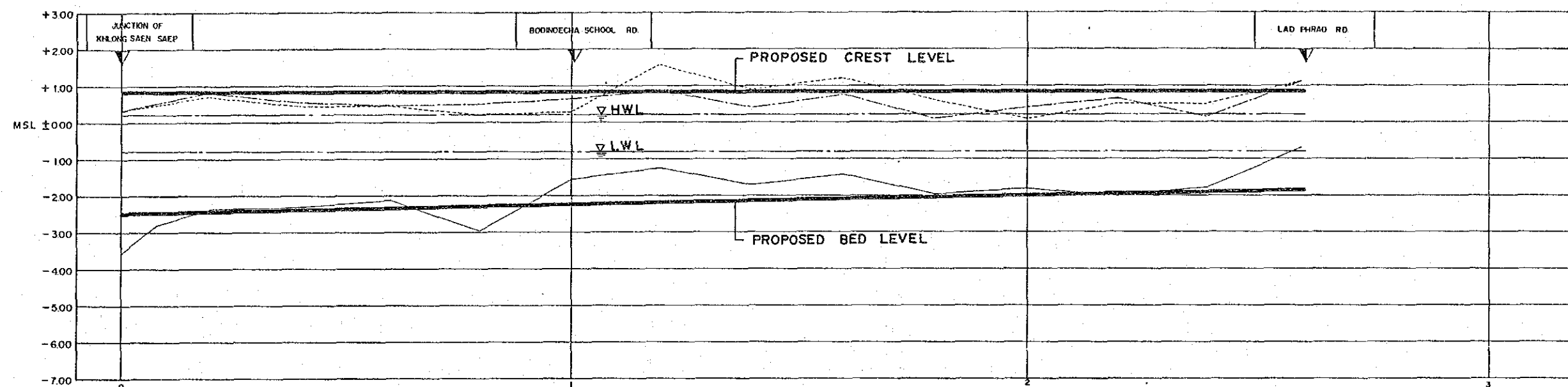
----- EXISTING BOTTOM LINE

----- PROPOSED CREST AND BED LINE

DWG. F.13

KLONG IMPROVEMENT (PROFILE) -K.LAT PHRAO(2)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOP ELEV. OF RETAINING WALL	+0.80												
PROPOSED BOTTOM ELEV. OF KHLONG	-2.50	-2.45	-2.40	-2.35	-2.30	-2.25	-2.20	-2.15	-2.10	-2.05	-2.00	-1.95	-1.90
EXISTING ELEV. OF LEFT BANK	0.31	0.80	0.56	0.45	0.50	0.64	0.87	0.39	0.75	0.10	0.40	0.66	0.16
EXISTING ELEV. OF RIGHT BANK	0.31	0.71	0.46	0.45	0.20	0.29	1.57	0.90	1.20	0.59	0.09	0.31	0.50
EXISTING BOTTOM ELEV. OF KHLONG	-3.62	-2.37	-2.31	-2.03	-2.93	-1.55	-1.24	-1.71	-1.40	-1.96	-1.81	-2.00	-1.75
ACCUMULATE DISTANCE (K.M.)	0.00	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40
NO	0	1	2	3	4	5	6	7	8	9	10	11	12

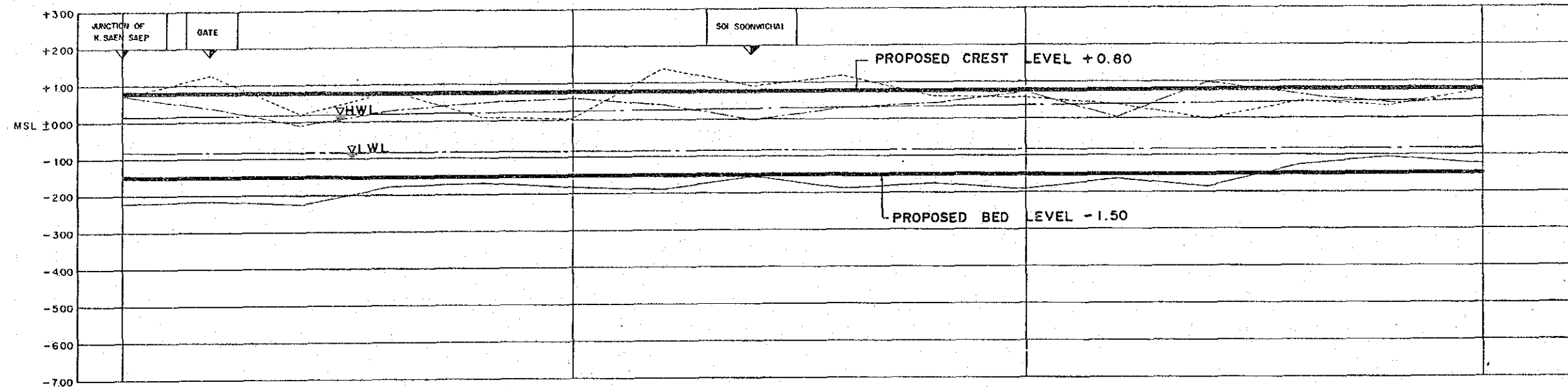
LEGEND

-----	EXISTING RIGHT GROUND LINE	-----	PROPOSED CREST AND BED LINE
-----	EXISTING LEFT GROUND LINE		
-----	EXISTING BOTTOM LINE		

DWG. F.14

KLONG IMPROVEMENT (PROFILE) -K.CHAO KHUN SING-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOPELEV OF RETAINING WALL	+0.80														
PROPOSED BOTTOM ELEV OF KHLONG	-1.50														
EXISTING ELEV. OF LEFT BANK	0.66	0.36	-0.13	0.30	0.47	0.99	0.40	-0.01	0.29	0.41	0.72	0.03	0.99	0.08	0.38
EXISTING ELEV. OF RIGHT BANK	0.66	1.25	0.20	0.63	0.10	0.03	1.37	0.92	1.19	0.62	0.36	0.36	-0.03	0.45	0.32
EXISTING BOTTOM ELEV OF KHLONG	-2.29	-2.15	-2.25	-1.77	-1.68	-1.94	-1.89	-1.54	-1.68	-1.73	-1.92	-1.64	-1.86	-1.28	-1.06
ACCUMULATE DISTANCE (KM)	0.00	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80
NO	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14

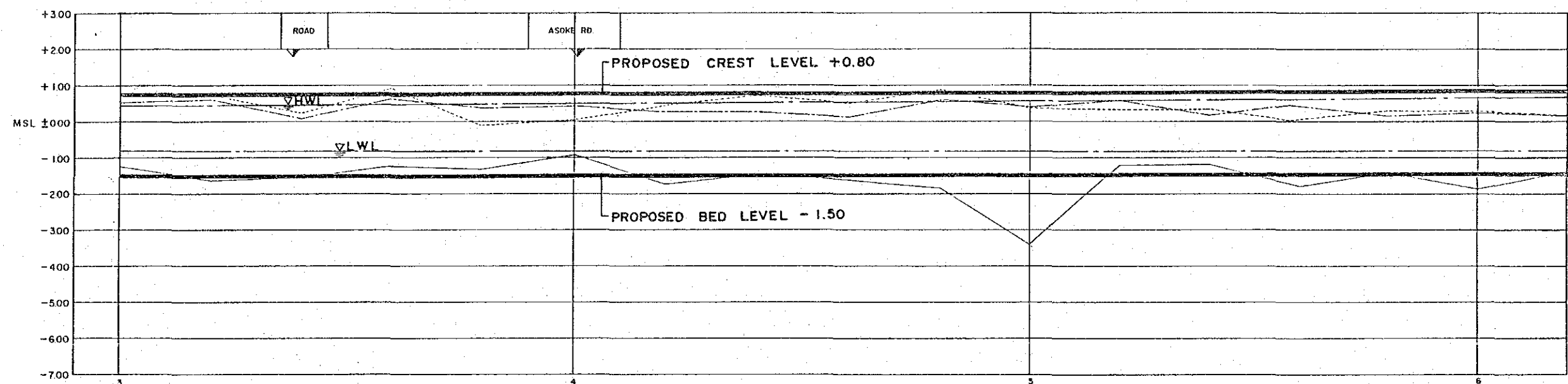
LEGEND

- EXISTING RIGHT GROUND LINE
- EXISTING LEFT GROUND LINE
- EXISTING BOTTOM LINE
- PROPOSED CREST AND BED LINE

DWG. F.15

KLONG IMPROVEMENT (PROFILE) -K.SAM SAEN(1)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOP ELEV OF RETAINING WALL	+0.80															
PROPOSED BOTTOM ELEV OF KHLONG	-1.50															
EXISTING ELEV. OF LEFT BANK	0.50	0.58	0.06	0.62	0.36	0.41	0.25	0.24	0.12	0.59	0.38	0.55	0.15	0.44	0.13	0.23
EXISTING ELEV. OF RIGHT BANK	0.74	0.72	0.21	0.88	-0.12	0.03	0.43	0.71	0.49	0.85	0.35	0.31	0.32	0.02	0.28	0.28
EXISTING BOTTOM ELEV OF KHLONG	-1.23	-1.63	-1.56	-1.25	-1.33	-0.93	-1.74	-1.47	-1.64	-1.84	-3.38	-1.22	-1.20	-1.79	-1.42	-1.86
ACCUMULATE DISTANCE (KM)	3.00	3.20	3.40	3.60	3.90	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00
NO	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

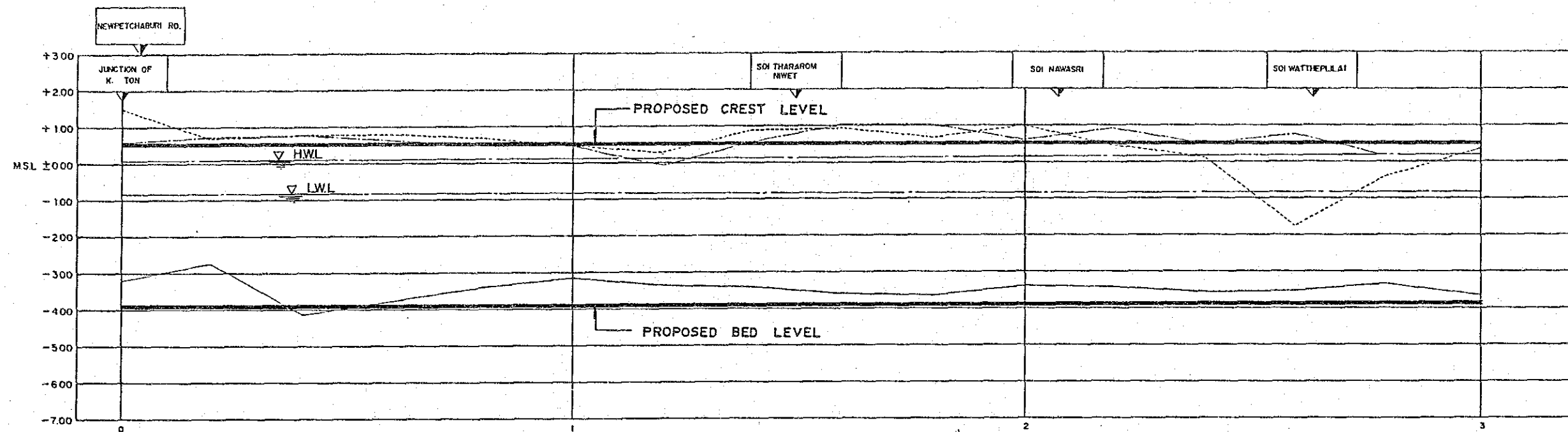
LEGEND

----- EXISTING RIGHT GROUND LINE
 ----- EXISTING LEFT GROUND LINE
 ----- EXISTING BOTTOM LINE
 ----- PROPOSED CREST AND BED LINE

DWG. F.16

KLONG IMPROVEMENT (PROFILE) -K.SAM SAEN(2)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOP ELEV OF RETAINING WALL	0.50					0.50						0.50					0.50
PROPOSED BOTTOM ELEV OF KHLONG	-4.95 -3.95	-3.95	-3.94	-3.94	-3.93	-4.95 -3.93	-5.93	-3.92	-3.92	-3.91	-4.91 -3.91	-3.91	-3.90	-3.90	-3.89	-4.89 -3.89	-3.85
EXISTING ELEV. OF LEFT BANK	0.55	0.70	0.76	0.62	0.46	0.46	-0.10	0.56	1.02	1.02	0.59	0.89	0.47	0.74	0.17	0.21	
EXISTING ELEV OF RIGHT BANK	1.45	0.65	0.76	0.77	0.66	0.46	0.26	0.86	0.92	0.67	0.99	0.44	0.14	-1.76	0.42	0.31	
EXISTING BOTTOM ELEV OF KHLONG	-3.20	-2.75	-4.14	-3.75	-3.59	-3.14	-3.34	-3.39	-3.58	-3.63	-3.57	-3.41	-3.56	-3.51	-3.33	-3.64	
ACCUMULATE DISTANCE (KM)	0.00	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	
NO	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

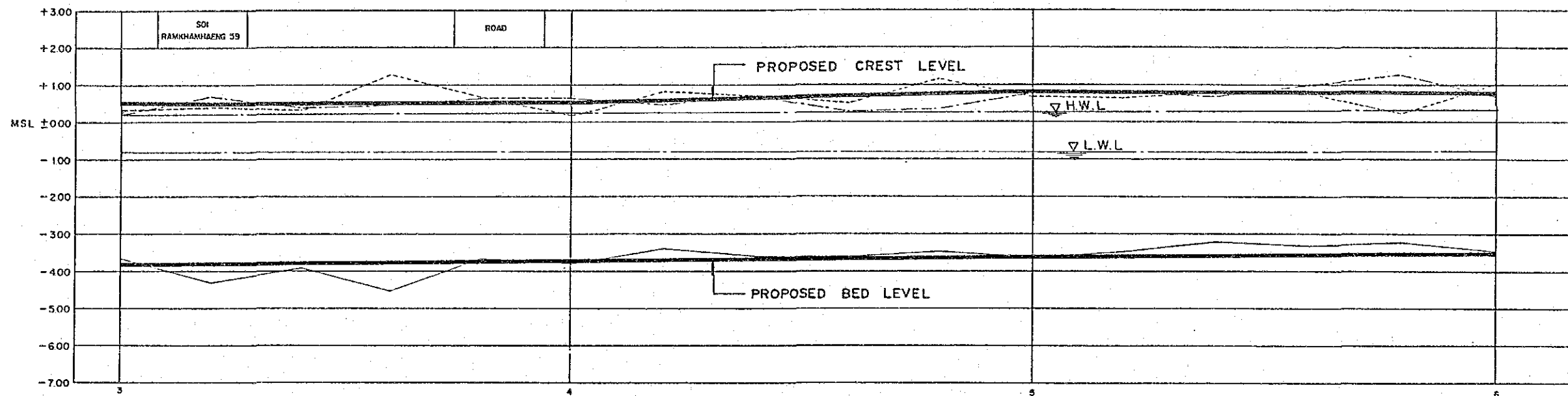
LEGEND

- EXISTING RIGHT GROUND LINE
- EXISTING LEFT GROUND LINE
- EXISTING BOTTOM LINE
- PROPOSED CREST AND BED LINE

DWG. F.17

KLONG IMPROVEMENT (PROFILE) -K.SAEN SAEP(1)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOE ELEV OF RETAINING WALL	0.50					0.80					0.80					0.80
PROPOSED BOTTOM ELEV OF KHLONG	-4.89 -3.89	-3.89	-3.89	-3.89	-3.87	-4.87 -3.87	-3.87	-3.86	-3.86	-3.85	-4.85 -3.85	-3.85	-3.84	-3.84	-3.83	-4.83 -3.83
EXISTING ELEV OF LEFT BANK	0.21	0.71	0.41	0.49	0.65	0.66	0.47	0.72	0.27	0.37	0.79	0.80	0.68	0.97	1.25	0.69
EXISTING ELEV OF RIGHT BANK	0.31	0.41	0.31	1.29	0.69	0.14	0.92	0.72	0.52	1.15	0.69	0.65	0.76	0.77	0.21	1.00
EXISTING BOTTOM ELEV OF KHLONG	-3.64	-4.23	-3.89	-4.51	-3.64	-3.78	-3.38	-3.58	-3.58	-3.48	-3.61	-3.46	-3.22	-3.33	-3.23	-3.45
ACCUMULATE DISTANCE (KM)	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00
NO	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

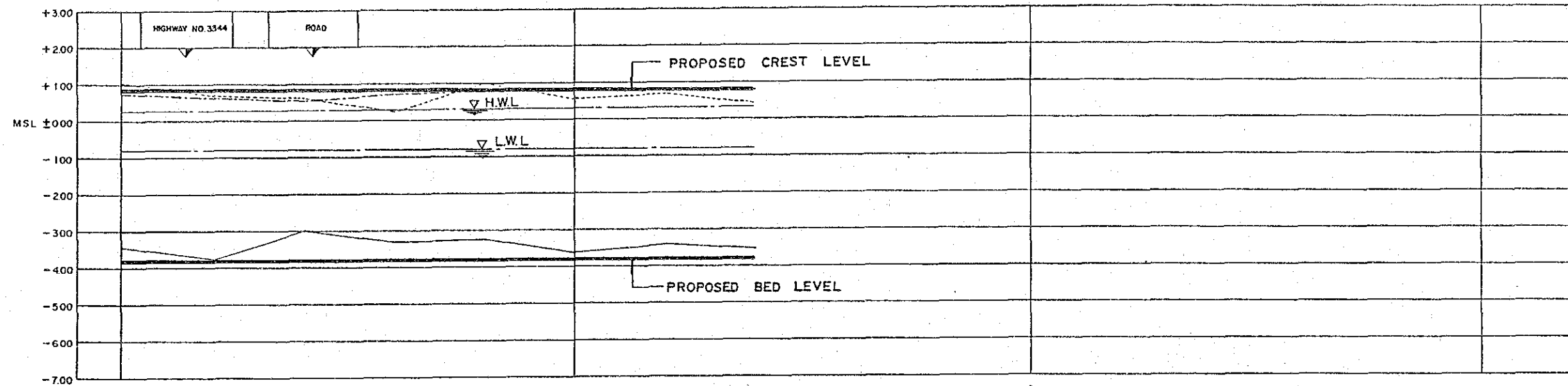
LEGEND

-----	EXISTING RIGHT GROUND LINE	-----	PROPOSED CREST AND BED LINE
-----	EXISTING LEFT GROUND LINE		
-----	EXISTING BOTTOM LINE		

DWG. F.18

KLONG IMPROVEMENT (PROFILE) -K.SAEN SAEP(2)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOPELEV OF RETAINING WALL	0.80					0.80		0.80
PROPOSED BOTTOM ELEV OF KHLONG	-4.83 -3.83	-3.83	-3.82	-3.82	-3.81	-4.81 -3.81	-3.81	-3.80
EXISTING ELEV OF LEFT BANK	0.69	0.58	0.50	0.70	0.74	0.78	0.77	0.77
EXISTING ELEV OF RIGHT BANK	1.00	0.65	0.58	0.19	0.98	0.53	0.67	0.40
EXISTING BOTTOM ELEV OF KHLONG	-3.45	-3.72	-3.04	-3.33	-3.25	-3.63	-3.41	-3.54
ACCUMULATE DISTANCE (KM.)	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.40 (END)
NO	30	31	32	33	34	35	36	37

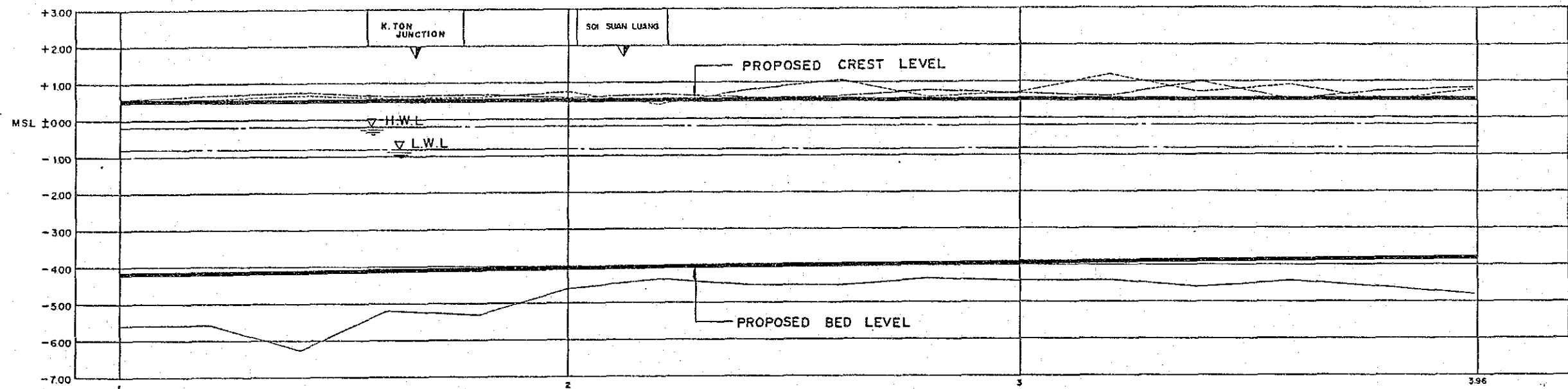
LEGEND

-----	EXISTING RIGHT GROUND LINE	-----	PROPOSED CREST AND BED LINE
-----	EXISTING LEFT GROUND LINE		
-----	EXISTING BOTTOM LINE		

DWG. F.19

KLONG IMPROVEMENT (PROFILE) -K.SAEN SAEP(3)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



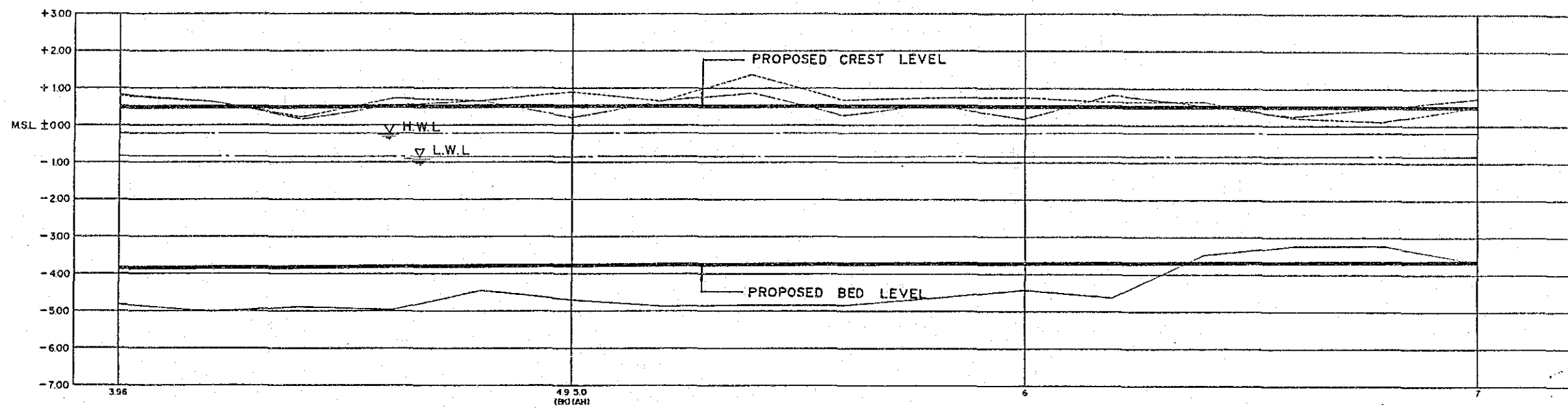
PROPOSED TOP ELEV OF RETAINING WALL	0.50																		0.50
PROPOSED BOTTOM ELEV OF KHLONG	-4.15	-4.13	-4.12	-4.10	-4.08	-4.06	-4.04	-4.02	-4.01	-3.99	-3.97	-3.95	-3.93	-3.92	-3.90	-3.89			
EXISTING ELEV OF LEFT BANK	0.54	0.65	0.76	0.62	0.69	0.58	0.68	0.59	0.60	0.78	0.68	0.59	0.59	0.49	0.72	0.80			
EXISTING ELEV OF RIGHT BANK	0.54	0.55	0.66	0.57	0.59	0.73	0.38	0.79	1.07	0.58	0.70	1.19	0.69	0.89	0.46	0.76			
EXISTING BOTTOM ELEV OF KHLONG	-5.64	-5.55	-6.24	-5.18	-5.29	-4.62	4.35	-4.51	-4.52	-4.33	-4.42	-4.41	-4.61	-4.43	-4.61	-4.80			
ACCUMULATE DISTANCE (K.M.)	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	3.96			
NO	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			

LEGEND

- EXISTING RIGHT GROUND LINE
- EXISTING LEFT GROUND LINE
- EXISTING BOTTOM LINE
- PROPOSED CREST AND BED LINE

DWG. F.21 KLONG IMPROVEMENT (PROFILE) -K.PHRA KHANONG(2)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOPELEV. OF RETAINING WALL	0.50																0.50
PROPOSED BOTTOM ELEV OF KHLONG	-3.89	-3.87	-3.85	-3.84	-3.82	-3.80	-3.78	-3.76	-3.75	-3.73	-3.71	-3.69	-3.67	-3.66	-3.64	-3.62	
EXISTING ELEV. OF LEFT BANK	0.80	0.61	0.15	0.53	0.65	0.19	0.64	0.88	0.25	0.54	0.15	0.82	0.52	0.23	0.48	0.73	
EXISTING ELEV. OF RIGHT BANK	0.76	0.62	0.22	0.73	0.65	0.89	0.64	1.36	0.65	0.74	0.75	0.63	0.64	0.19	0.10	0.48	
EXISTING BOTTOM ELEV OF KHLONG	-4.80	-5.00	-4.88	-4.98	-4.46	-4.71	-4.86	-4.94	-4.85	-4.66	-4.45	-4.65	-3.48	-3.25	-3.24	-3.67	
ACCUMULATE DISTANCE (K.M.)	3.96	4.16	4.36	4.55	4.75	(9K) 4.90 5.00 (4H)	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	
NO.	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	

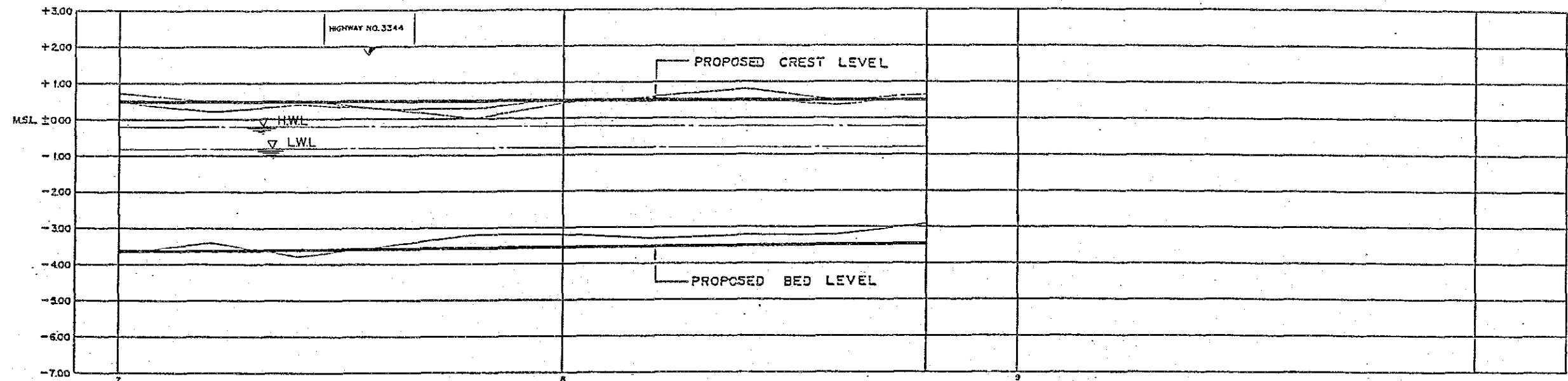
LEGEND

-----	EXISTING RIGHT GROUND LINE	-----	PROPOSED CREST AND BED LINE
-----	EXISTING LEFT GROUND LINE		
-----	EXISTING BOTTOM LINE		

DWG. F.22

KLONG IMPROVEMENT (PROFILE) -K.PHRA KHANONG(3)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



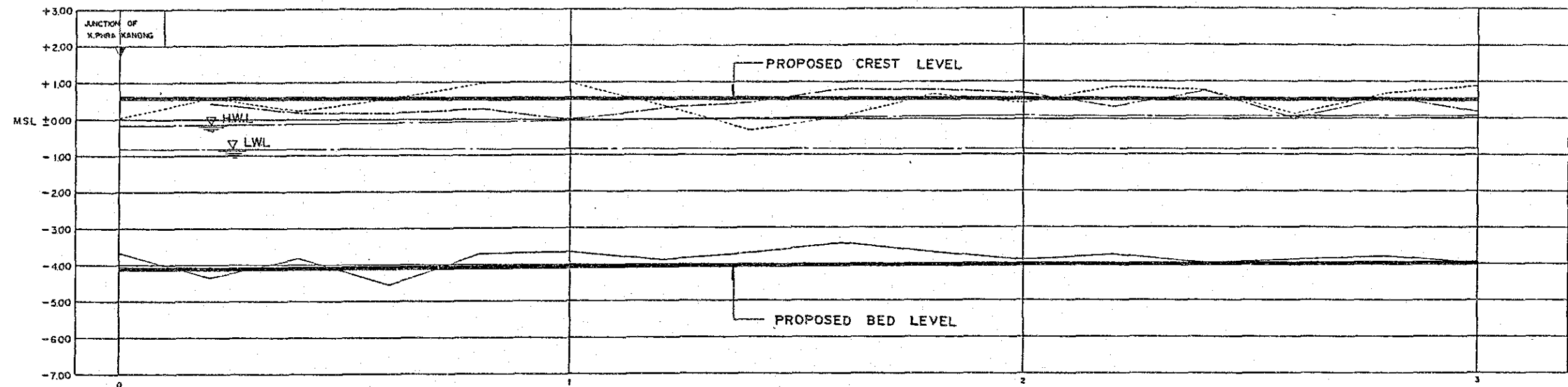
PROPOSED TOP ELEV. OF RETAINING WALL	0.80									0.80
PROPOSED BOTTOM ELEV. OF KHLONG	-3.82	-3.60	-3.80	-3.88	-3.87	-3.85	-3.83	-3.82	-3.80	-3.48
EXISTING ELEV. OF LEFT BANK	0.73	0.50	0.32	0.28	0.03	0.41	0.36	0.82	0.31	0.64
EXISTING ELEV. OF RIGHT BANK	0.46	0.23	0.42	0.28	0.23	0.51	0.36	0.32	0.35	0.39
EXISTING BOTTOM ELEV. OF KHLONG	-3.87	-3.37	-3.78	-3.47	-3.18	-3.20	-3.32	-3.20	-3.20	-2.80
ACCUMULATE DISTANCE (K.M.)	700	720	740	760	780	800	820	840	860	880 (E/D)
NO.	35	36	37	38	39	40	41	42	43	44

LEGEND

-----	EXISTING RIGHT GROUND LINE	-----	PROPOSED CREST AND BED LINE
-----	EXISTING LEFT GROUND LINE		
-----	EXISTING BOTTOM LINE		

DWG. F.23 KLONG IMPROVEMENT (PROFILE) -K.PHRA KHANONG(4)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOPELEV OF RETAINING WALL	0.50							0.500									0.50
PROPOSED BOTTOM ELEV OF KHLONG	-5.09	-4.08	-4.07	-4.07	-4.06	-4.05	-4.04	-4.03	-4.03	-4.02	-4.01	-4.00	-3.99	-3.99	-3.98	-3.97	-3.97
EXISTING ELEV. OF LEFT BANK	HOUSE	0.46	0.19	0.19	0.32	-0.09	0.29	0.46	0.82	0.78	0.69	0.50	0.75	-0.03	0.56	0.17	
EXISTING ELEV. OF RIGHT BANK	0.04	0.82	0.23	0.59	1.00	1.00	0.40	-0.29	0.04	0.69	0.40	0.86	0.77	0.10	0.69	0.88	
EXISTING BOTTOM ELEV OF KHLONG	-3.65	-4.32	-3.78	-4.32	-3.63	-3.62	-3.68	-3.66	-3.42	-3.67	-3.82	-3.75	-3.93	-3.83	-3.77	-3.97	
ACCUMULATE DISTANCE (KM.)	0.00	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	
NO	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

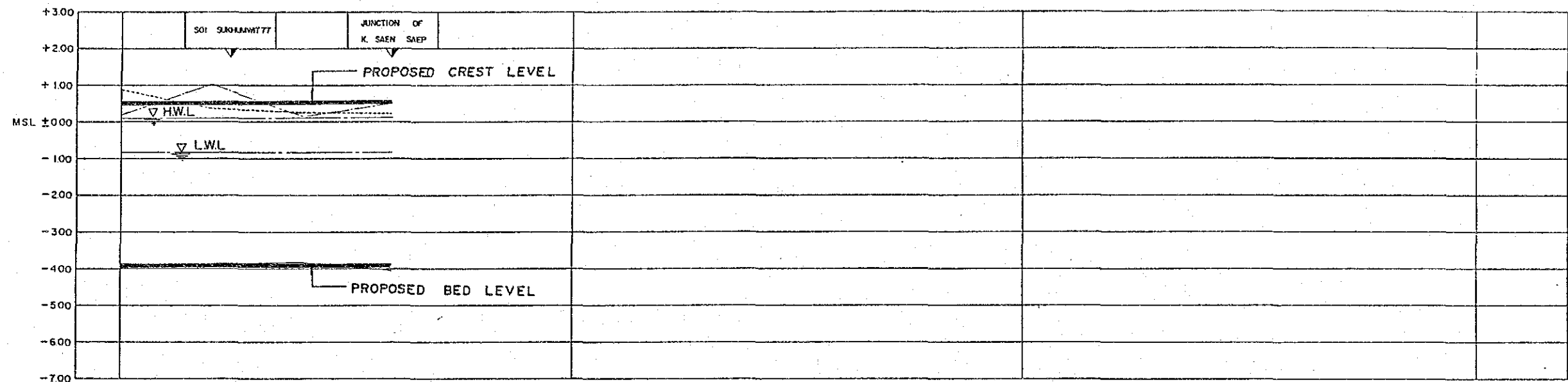
LEGEND

----- EXISTING RIGHT GROUND LINE
 ----- EXISTING LEFT GROUND LINE
 ----- EXISTING BOTTOM LINE
 ----- PROPOSED CREST AND BED LINE

DWG. F.24

KLONG IMPROVEMENT (PROFILE) -K.TAN(1)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK



PROPOSED TOPELEV. OF RETAINING WALL	0.50			0.50
PROPOSED BOTTOM ELEV OF KHLONG	-4.37 (-4.37)	-3.06	-3.06	-3.95
EXISTING ELEV OF LEFT BANK	0.17	1.01	0.15	0.31
EXISTING ELEV. OF RIGHT BANK	0.28	0.36	0.25	0.24
EXISTING BOTTOM ELEV OF KHLONG	-3.97	-3.82	-3.80	-4.03
ACCUMULATE DISTANCE (KM)	3.00	3.20	3.40	3.60 (END)
NO	15	16	17	18

LEGEND

----- EXISTING RIGHT GROUND LINE
 ----- EXISTING LEFT GROUND LINE
 ----- EXISTING BOTTOM LINE
 ----- PROPOSED CREST AND BED LINE

DWG. F.25

KLONG IMPROVEMENT (PROFILE) -K.TAN(2)-

FEASIBILITY STUDY ON FLOOD PROTECTION/DRAINAGE PROJECT IN EASTERN SUBURBAN-BANGKOK