





Result of Unsteady Flow Calculation ( 2 )  
( Discharge )

H	H	2	3	4	7	13	14	16	18	20	21	25	27	30	31	32	35	36	38
14	0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.5	15.7	15.9	15.9	18.7	18.8	2.5	2.6	2.6	2.6
14	10	-0.0	-0.0	-0.0	-0.1	0.0	0.0	0.1	0.1	0.2	15.7	15.8	15.9	18.7	18.8	2.6	2.6	2.6	2.6
14	20	-0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.4	15.6	15.8	15.9	18.7	18.8	2.6	2.6	2.6	2.6
14	30	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	0.5	15.6	15.8	15.9	18.7	18.8	2.6	2.6	2.6	2.6
14	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	15.8	15.8	18.7	18.8	2.6	2.6	2.7	2.7
14	50	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	15.6	15.7	15.8	18.7	18.8	2.7	2.7	2.7	2.7
15	0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.4	15.6	15.7	15.8	18.7	18.8	2.7	2.7	2.7	2.7
15	10	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	0.1	15.5	15.7	15.8	18.7	18.8	2.7	2.7	2.7	2.7
15	20	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.4	15.5	15.7	15.8	18.7	18.8	2.7	2.7	2.7	2.7
15	30	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.4	15.5	15.7	15.8	18.7	18.8	2.7	2.7	2.7	2.8
15	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	15.7	15.7	18.7	18.8	2.7	2.8	2.8	2.8
15	50	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	15.5	15.6	15.7	18.7	18.8	2.8	2.8	2.8	2.8
16	0	0.0	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.4	15.5	15.6	15.7	18.7	18.8	2.8	2.8	2.8	2.8
16	10	-0.0	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.1	0.1	15.4	15.6	15.7	18.7	18.8	2.8	2.8	2.8	2.8
16	20	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	15.4	15.6	15.7	18.7	18.8	2.8	2.8	2.8	2.8
16	30	0.0	0.0	0.1	0.1	0.3	0.3	0.3	0.3	0.4	15.4	15.6	15.7	18.7	18.8	2.8	2.8	2.8	2.9
16	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	15.4	15.6	15.6	18.7	18.8	2.8	2.9	2.9	2.9
16	50	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	15.4	15.5	15.6	18.7	18.8	2.8	2.9	2.9	2.9
17	0	0.0	0.0	0.1	0.1	0.3	0.3	0.3	0.3	0.4	15.4	15.5	15.6	18.7	18.8	2.9	2.9	2.9	2.9
17	10	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.2	15.4	15.5	15.6	18.7	18.8	2.9	2.9	2.9	2.9
17	20	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	15.4	15.5	15.6	18.7	18.8	2.9	2.9	2.9	2.9
17	30	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.3	0.4	15.4	15.5	15.6	18.7	18.8	2.9	2.9	2.9	2.9
17	40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	15.4	15.5	15.6	18.7	18.8	2.9	2.9	2.9	2.9
17	50	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	15.4	15.5	15.5	18.7	18.8	2.9	2.9	2.9	3.0
18	0	0.0	0.0	0.0	0.1	0.3	0.3	0.3	0.4	0.4	15.4	15.5	15.5	18.7	18.8	2.9	3.0	3.0	3.0
18	10	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.2	0.2	15.3	15.4	15.5	18.7	18.8	2.9	3.0	3.0	3.0
18	20	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.4	15.3	15.4	15.5	18.7	18.8	3.0	3.0	3.0	3.0
18	30	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	15.3	15.4	15.5	18.7	18.8	3.0	3.0	3.0	3.0
18	40	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	15.3	15.4	15.5	18.7	18.8	3.0	3.0	3.0	3.0
18	50	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	15.3	15.4	15.5	18.7	18.8	3.0	3.0	3.0	3.0
19	0	0.0	0.0	0.0	0.1	0.3	0.3	0.4	0.4	0.4	15.3	15.4	15.5	18.7	18.8	3.0	3.0	3.0	3.0
19	10	-0.0	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.1	0.2	15.3	15.4	15.5	18.7	18.8	3.0	3.0	3.0	3.0
19	20	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	15.3	15.4	15.4	18.7	18.8	3.0	3.0	3.0	3.1
19	30	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.3	15.3	15.4	15.4	18.7	18.8	3.0	3.0	3.1	3.1
19	40	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	15.3	15.4	15.4	18.7	18.8	3.0	3.1	3.1	3.1
19	50	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.4	15.2	15.3	15.4	18.7	18.8	3.0	3.1	3.1	3.1
20	0	0.0	0.0	0.0	0.1	0.3	0.3	0.4	0.4	0.4	15.2	15.3	15.4	18.7	18.8	3.1	3.1	3.1	3.1
20	10	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	15.2	15.3	15.4	18.7	18.8	3.1	3.1	3.1	3.1
20	20	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	15.2	15.3	15.4	18.7	18.8	3.1	3.1	3.1	3.1
20	30	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	15.2	15.3	15.4	18.7	18.8	3.1	3.1	3.1	3.1
20	40	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	15.2	15.3	15.4	18.7	18.8	3.1	3.1	3.1	3.1
20	50	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.3	0.3	15.2	15.3	15.4	18.7	18.8	3.1	3.1	3.1	3.1
21	0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.4	0.4	15.2	15.3	15.4	18.7	18.8	3.1	3.1	3.1	3.1
21	10	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	15.2	15.3	15.4	18.7	18.8	3.1	3.1	3.1	3.1
21	20	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	15.2	15.3	15.4	18.7	18.8	3.1	3.1	3.1	3.1
21	30	0.0	0.0	0.1	0.2	0.3	0.3	0.4	0.4	0.4	15.2	15.3	15.4	18.7	18.8	3.1	3.1	3.1	3.2
21	40	-0.0	-0.0	-0.0	0.0	0.1	0.1	0.2	0.2	0.3	15.2	15.3	15.3	18.7	18.8	3.1	3.1	3.1	3.2
21	50	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	15.2	15.3	15.3	18.7	18.8	3.1	3.1	3.2	3.2
22	0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	15.2	15.3	15.3	18.7	18.8	3.1	3.2	3.2	3.2
22	10	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	15.2	15.3	15.3	18.7	18.8	3.1	3.2	3.2	3.2
22	20	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	15.1	15.2	15.3	18.7	18.8	3.1	3.2	3.2	3.2
22	30	0.0	0.0	0.1	0.1	0.3	0.3	0.4	0.4	0.4	15.1	15.2	15.3	18.7	18.8	3.2	3.2	3.2	3.2
22	40	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	15.1	15.2	15.3	18.7	18.8	3.2	3.2	3.2	3.2
22	50	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	15.1	15.2	15.3	18.7	18.8	3.2	3.2	3.2	3.2
23	0	0.0	0.1	0.1	0.2	0.3	0.3	0.3	0.3	0.4	15.1	15.2	15.3	18.7	18.8	3.2	3.2	3.2	3.2
23	10	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.3	0.3	15.1	15.2	15.3	18.7	18.8	3.2	3.2	3.2	3.2
23	20	0.0	-0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	15.1	15.2	15.3	18.7	18.8	3.2	3.2	3.2	3.2
23	30	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.4	15.1	15.2	15.3	18.7	18.8	3.2	3.2	3.2	3.2
23	40	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	15.1	15.2	15.3	18.7	18.8	3.1	3.2	3.2	3.2
23	50	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	15.1	15.2	15.3	18.7	18.8	3.1	3.2	3.2	3.2
26	0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.4	15.1	15.2	15.3	18.7	18.8	3.1	3.2	3.2	3.2









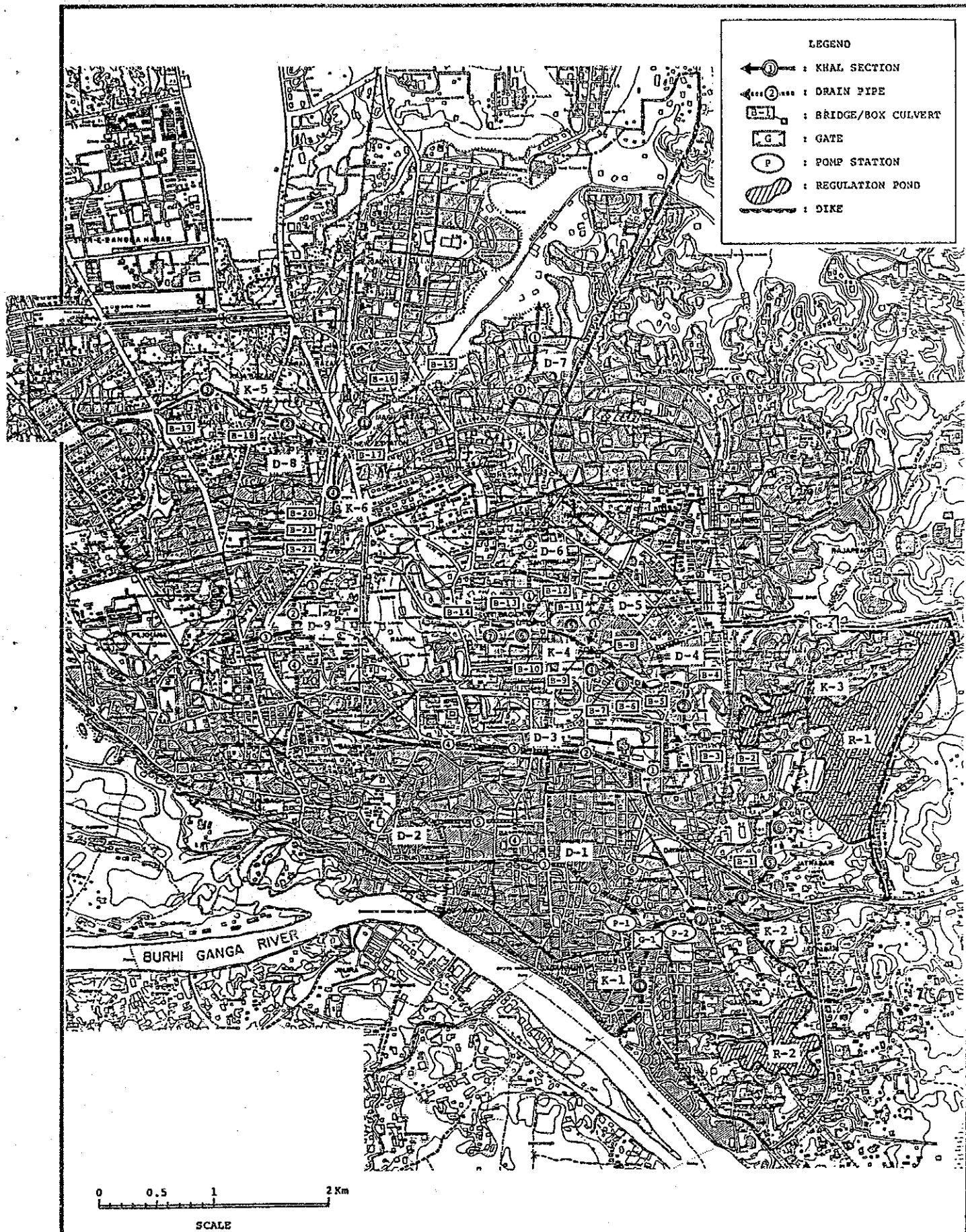




# PROPOSED KHAL IMPROVEMENT

(plan, Longitudinal and Cross Sections )



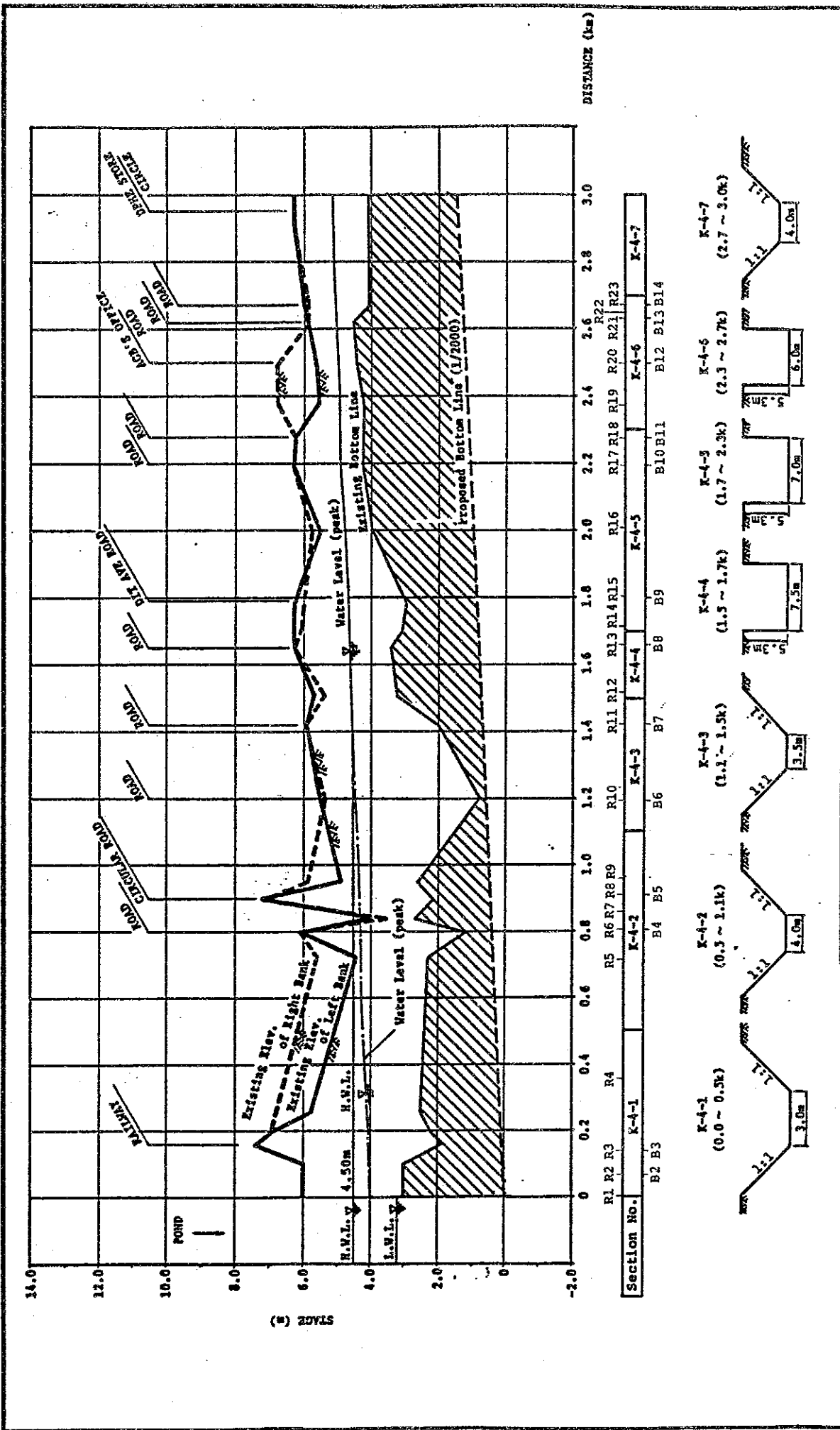


**FIG.**

**PROPOSED KHAL IMPROVEMENT PLAN**

**STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT IN DHAKA CITY, THE PEOPLE'S REPUBLIC OF BANGLADESH**





**FIG. I.16** PROPOSED LONGITUDINAL AND CROSS SECTIONS OF SEGUNBAGICHA KHAL

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT IN DHAKA CITY, THE PEOPLE'S REPUBLIC OF BANGLADESH



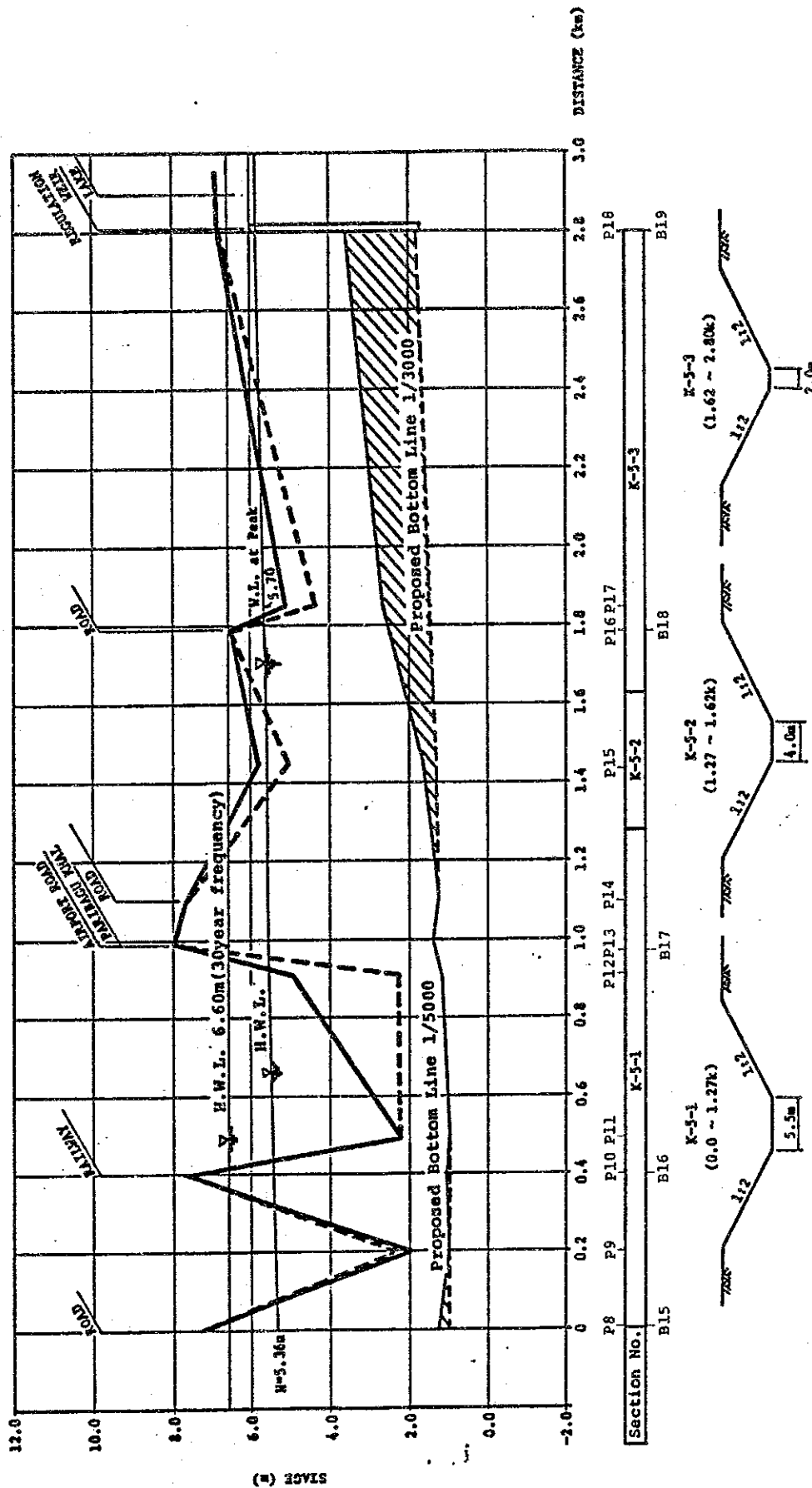


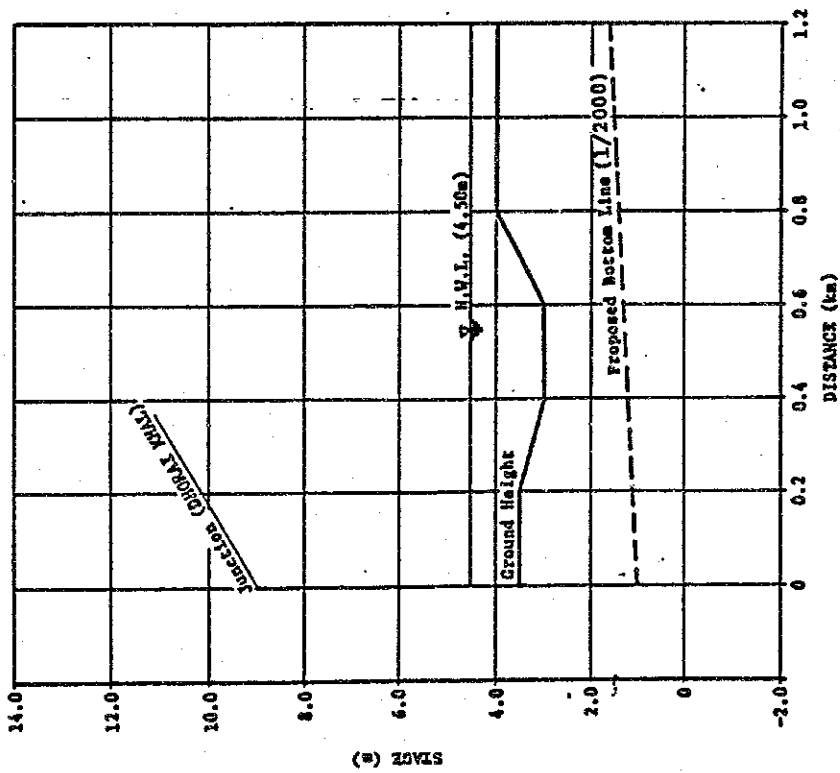
FIG. I.17 PROPOSED LONGITUDINAL AND CROSS SECTIONS OF BEGUNBARI KHAL

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT IN DHAKA CITY, THE PEOPLE'S REPUBLIC OF BANGLADESH

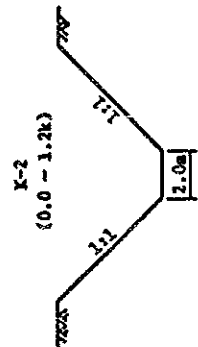




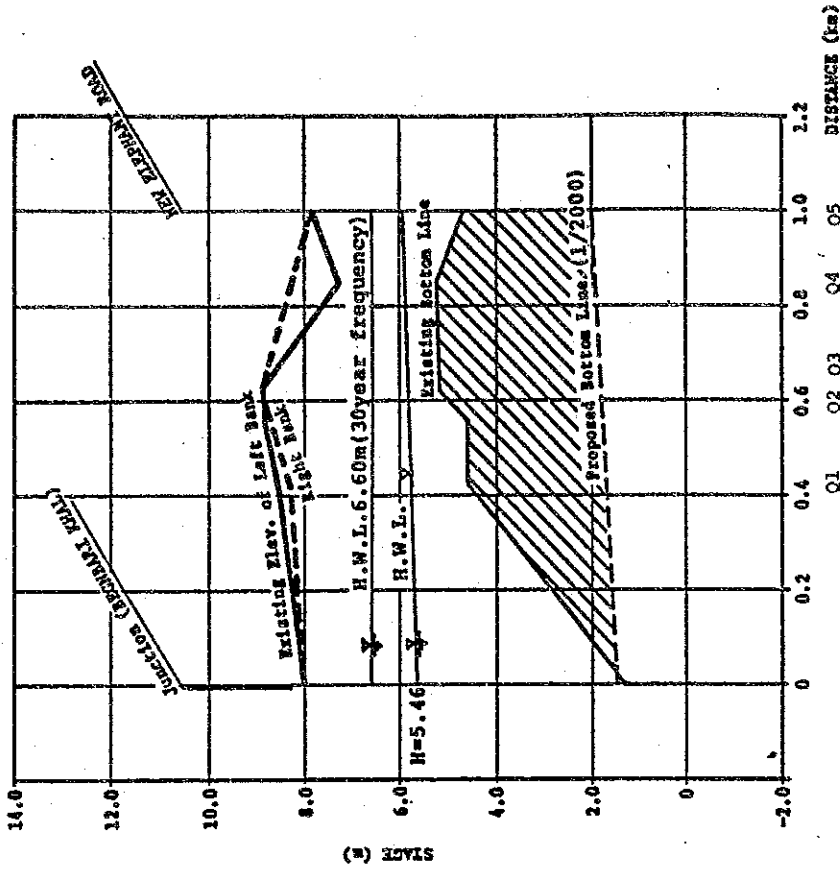
(GANDARIA)



Section No. K-2



(PARIBAGH)



Section No. K-6

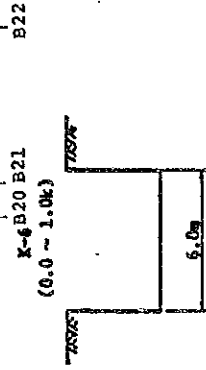
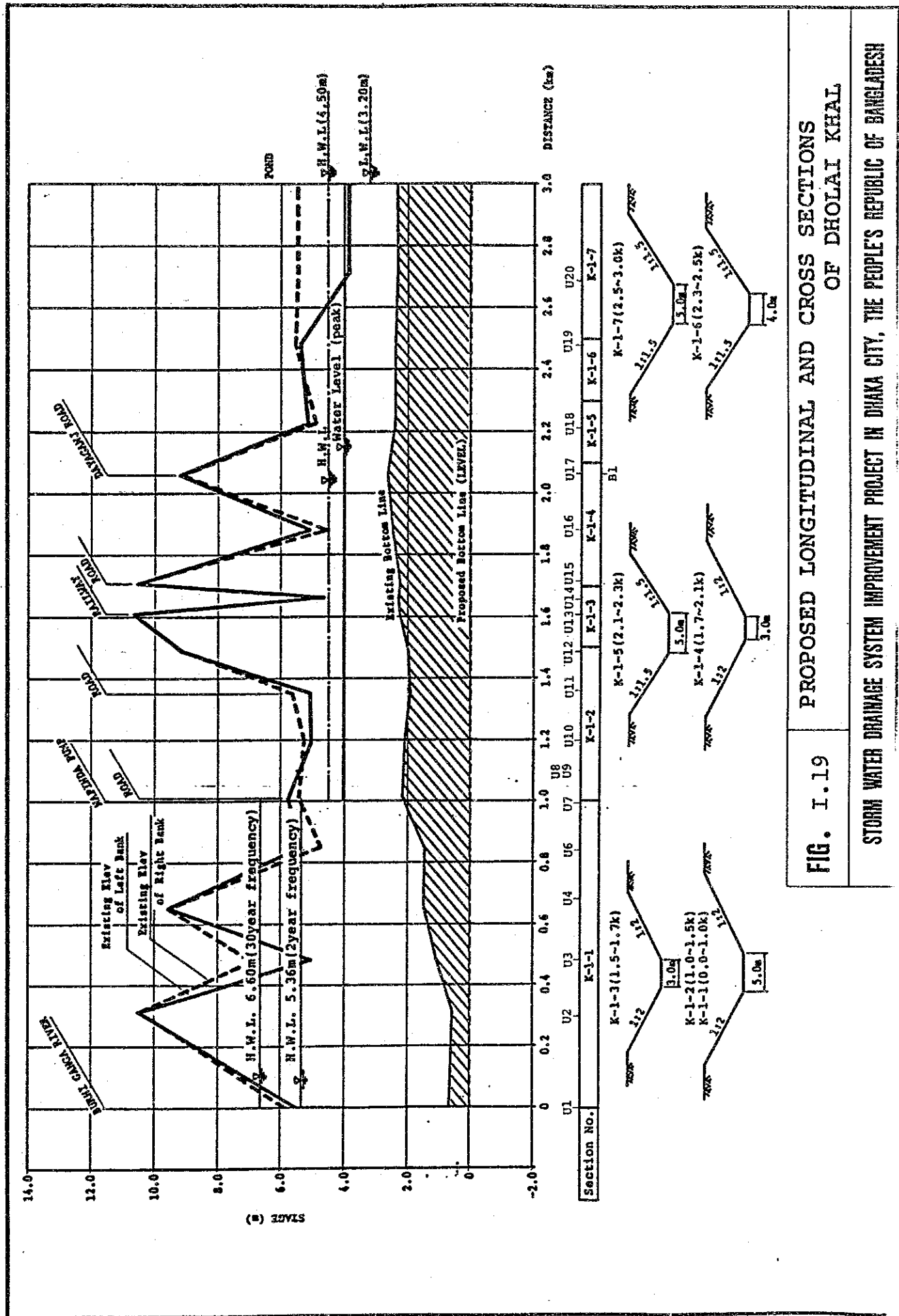


FIG. I.18

PROPOSED LONGITUDINAL AND CROSS SECTIONS OF PARIBAGH AND GANDARIA KHALS

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT IN DHAKA CITY, THE PEOPLE'S REPUBLIC OF BANGLADESH

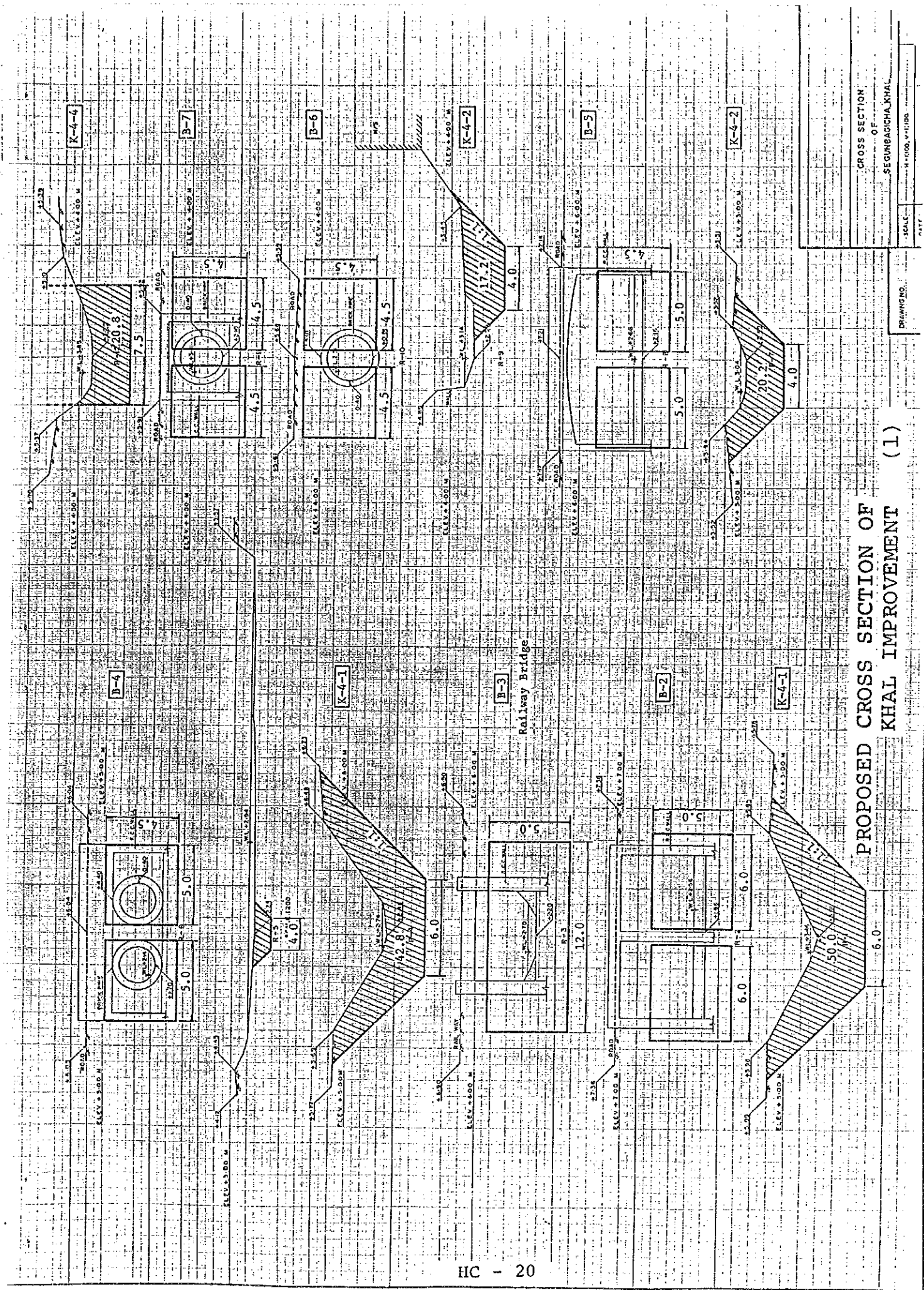




**FIG. I.19** PROPOSED LONGITUDINAL AND CROSS SECTIONS OF DHOLAI KHAL

STORM WATER DRAINAGE SYSTEM IMPROVEMENT PROJECT IN DHAKA CITY, THE PEOPLE'S REPUBLIC OF BANGLADESH





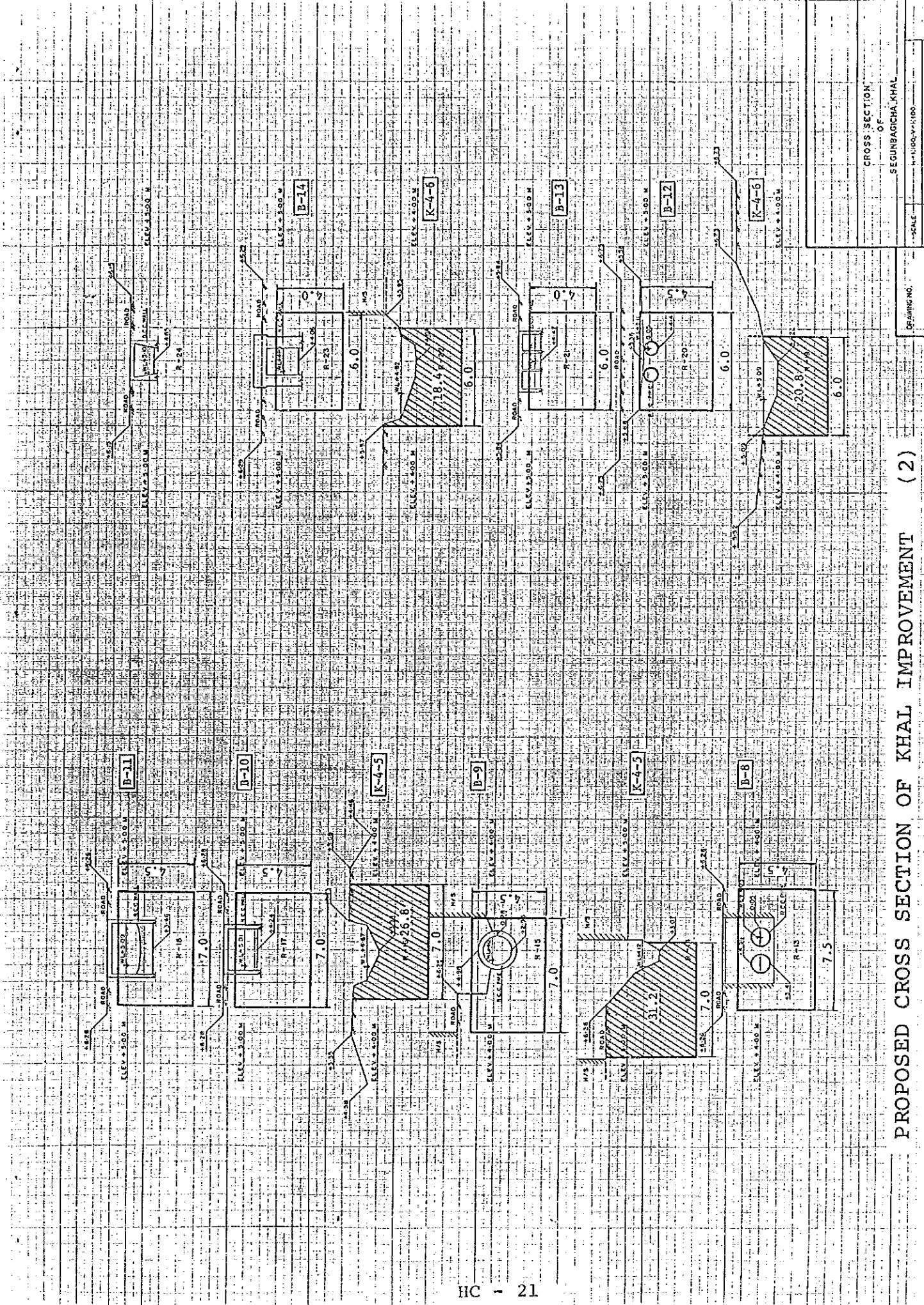
PROPOSED CROSS SECTION OF  
 KHAL IMPROVEMENT (1)

CROSS SECTION  
 OF  
 SEGUNBAGICHA\_KHAL

SCALE: 1:1000, V=1:1000

DRAWING NO.





PROPOSED CROSS SECTION OF KHAL IMPROVEMENT (2)

CROSS SECTION OF

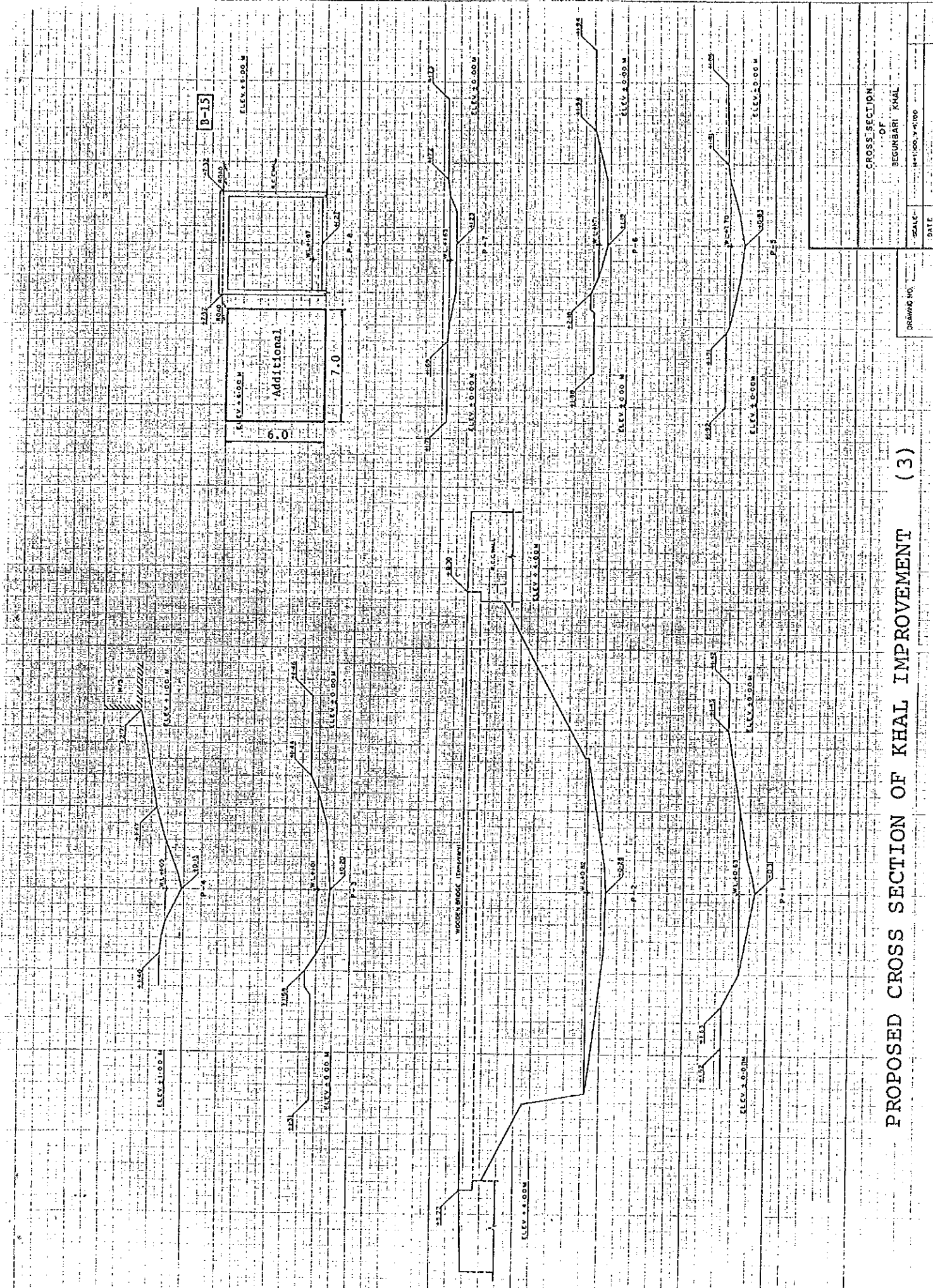
SECUNBAGICHA KHAL

SCALE: 1:1000, V.P. 100

DATE







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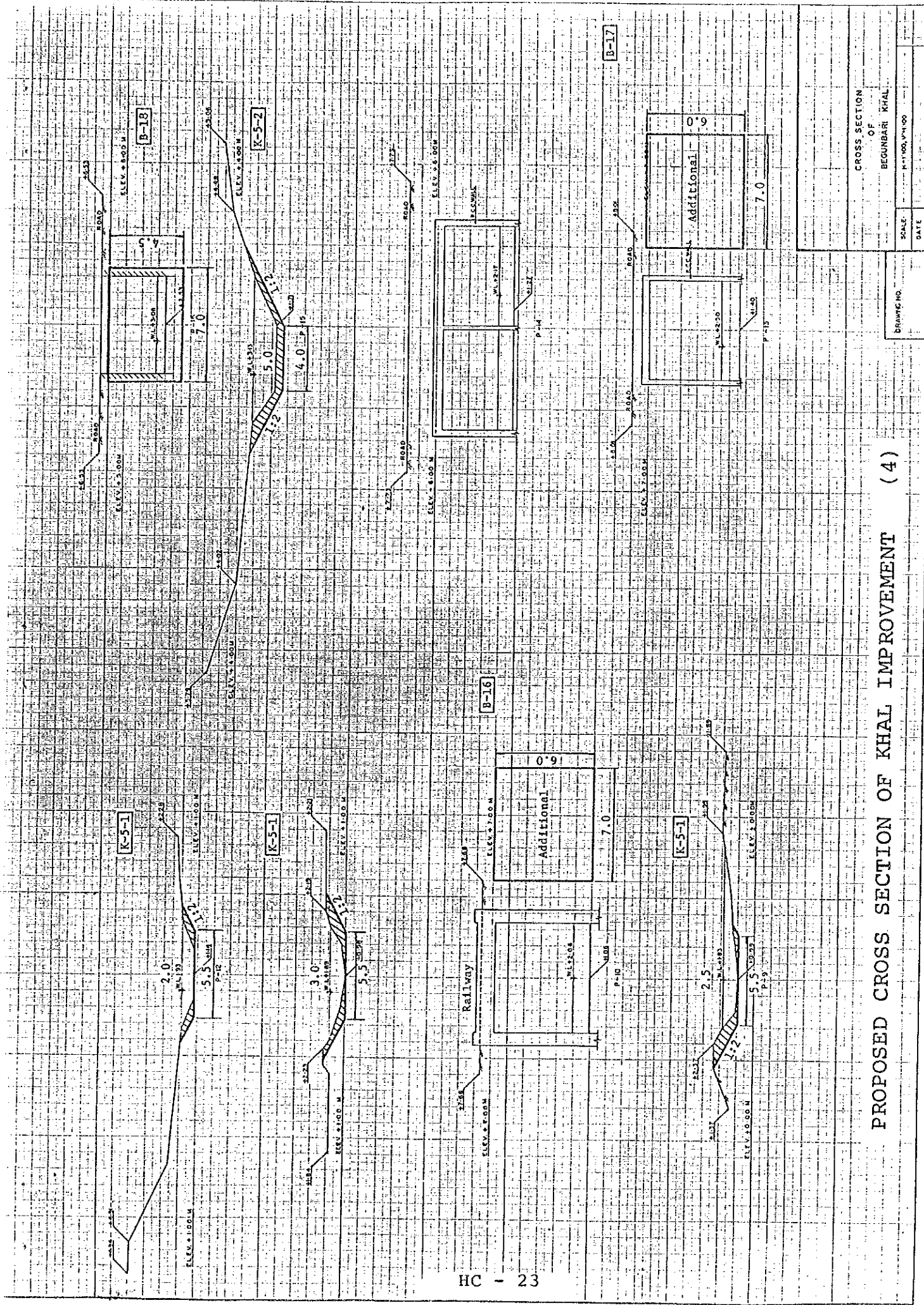
BEGUNBARI KHAL

SCALE: 1:1000, 3/4"=100'

DRAWING NO.

DATE





HC - 23

PROPOSED CROSS SECTION OF KHAL IMPROVEMENT (4)

CROSS SECTION OF

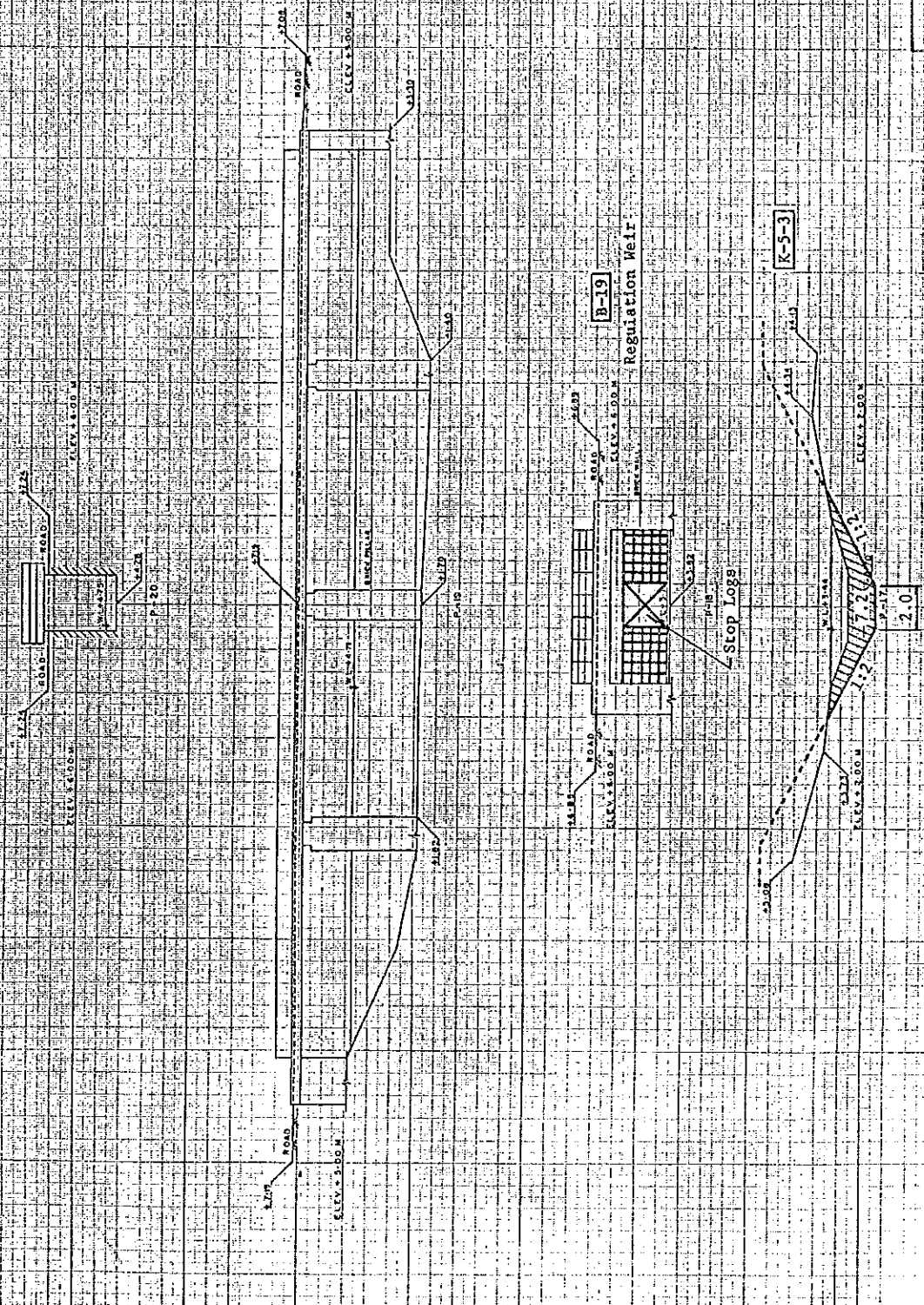
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DATE

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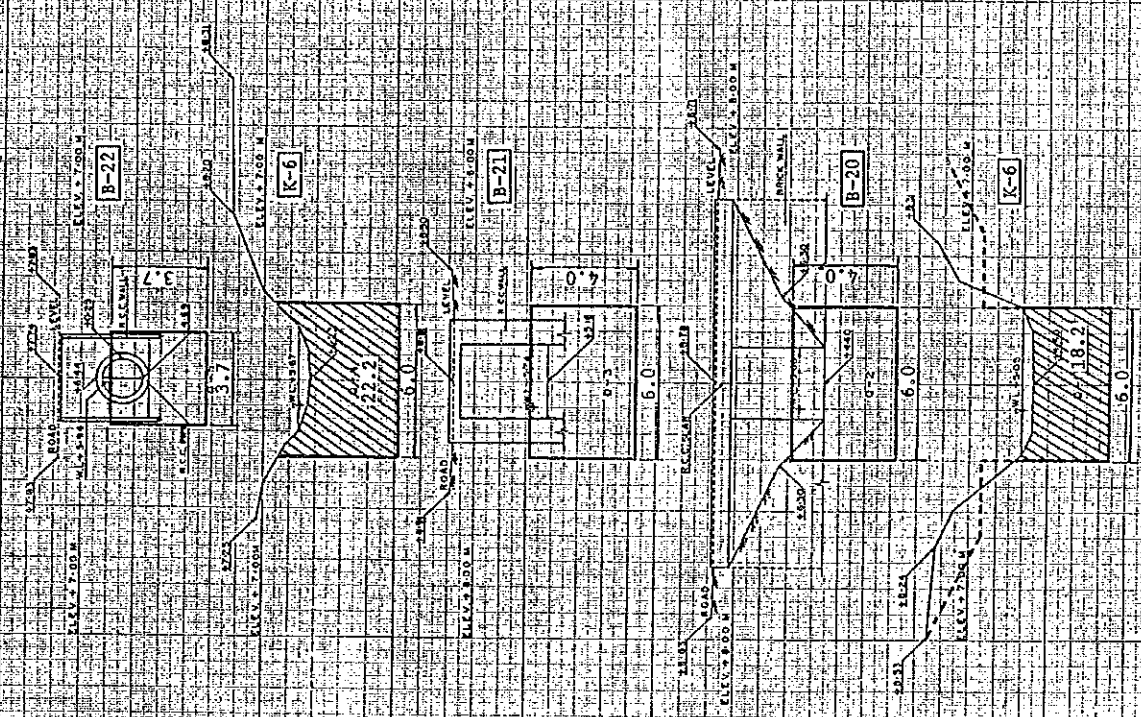
CROSS SECTION  
OF  
BEGUNBARI KHAL

SCALE: 1:1000 V 1:1000  
DATE

PROPOSED CROSS SECTION OF KHAL IMPROVEMENT (5)







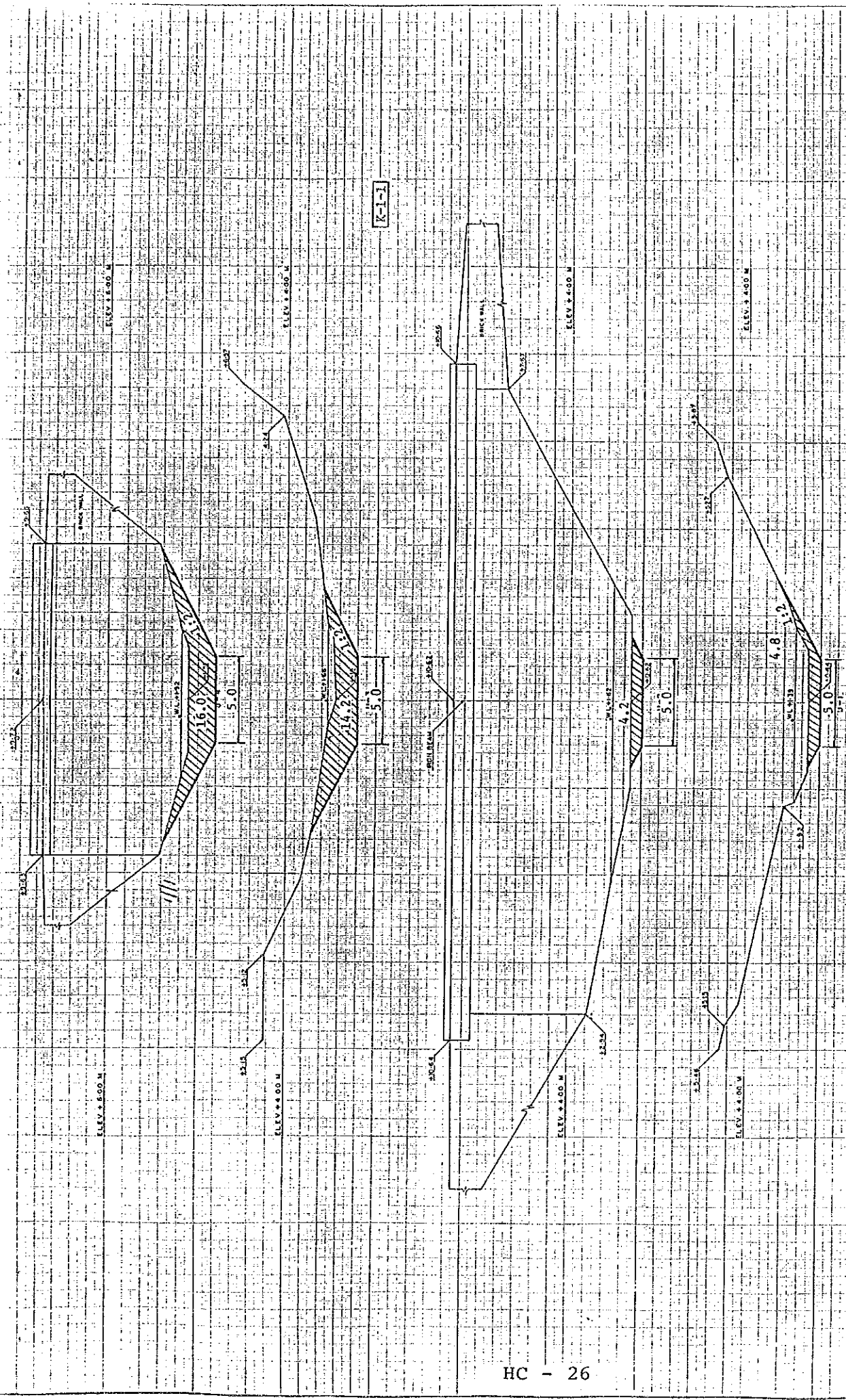
PROPOSED CROSS SECTION OF KHAL IMPROVEMENT (6)

CROSS SECTION	
OF	
PARBAGH KHAL	
SCALE	1" = 100' V = 1:100'
DATE	

DRAWING NO.



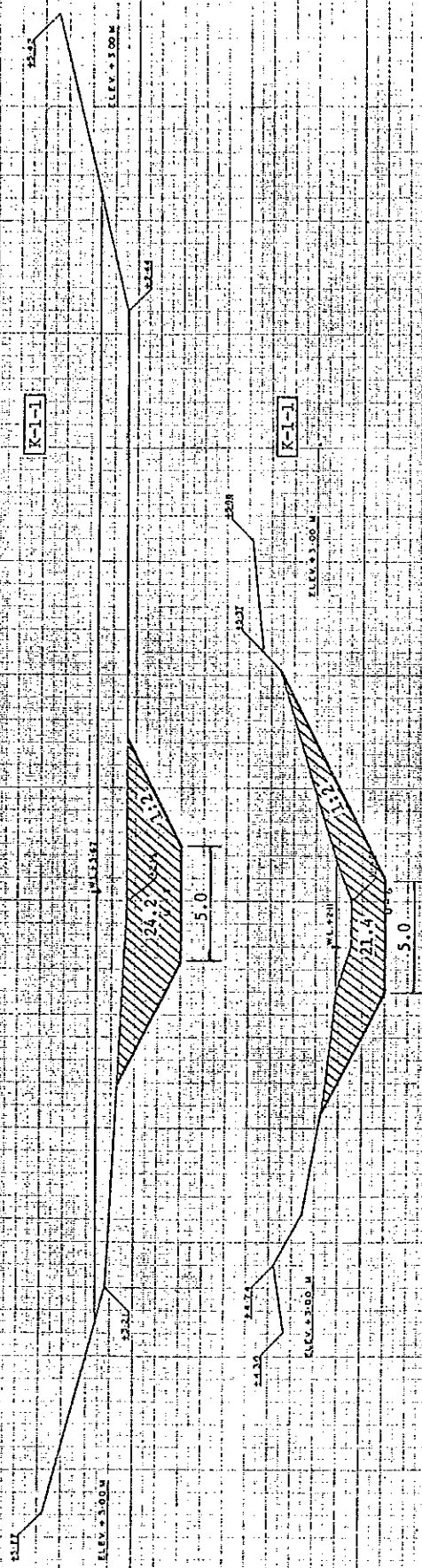




CROSS SECTION OF DHOLAI KHAL	
SCALE	DATE
1:1000, V=1000	

PROPOSED CROSS SECTION OF KHAL IMPROVEMENT (7)





PROPOSED CROSS SECTION OF KHAL IMPROVEMENT (8)

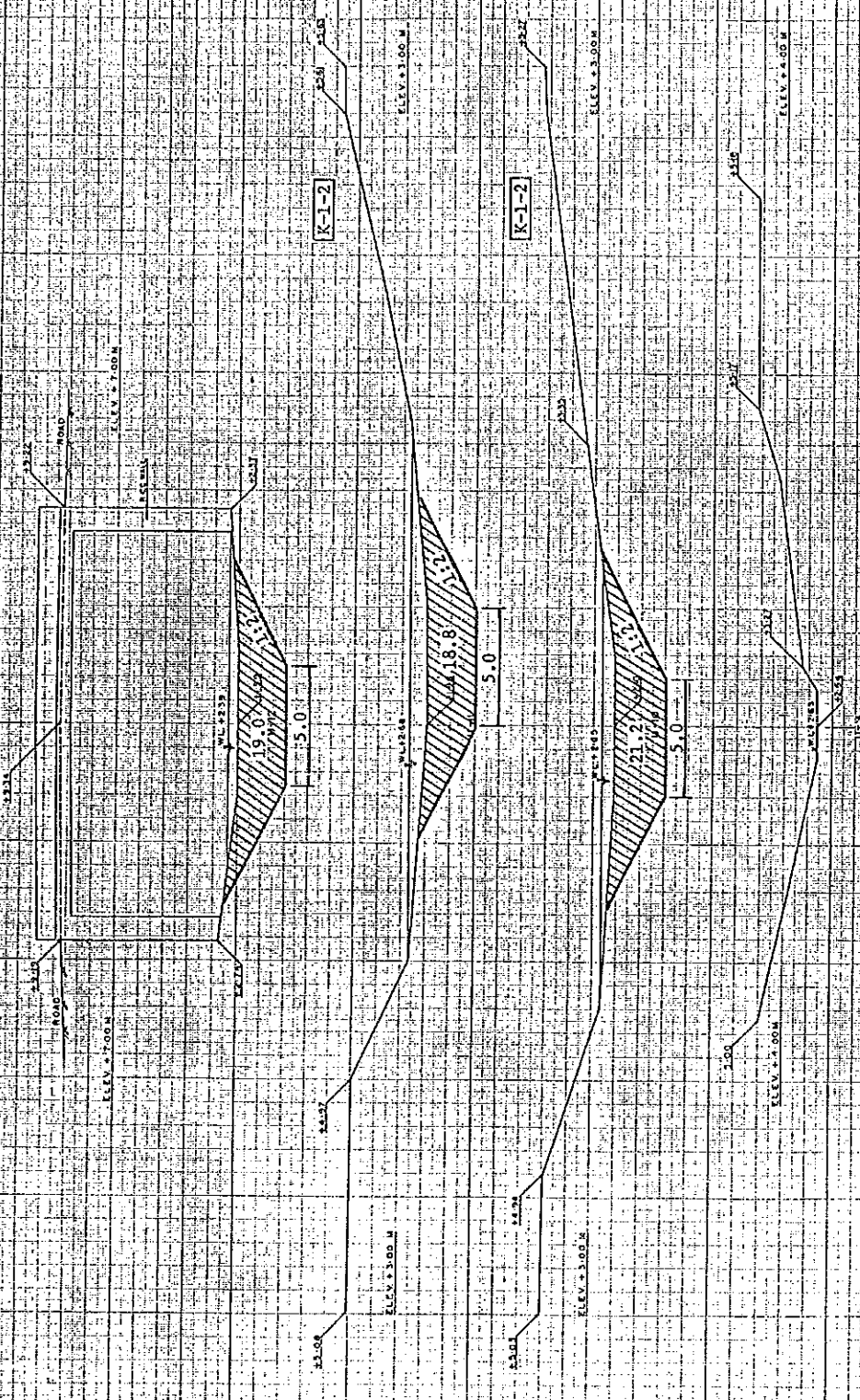
CROSS SECTION  
OF  
DHOLOI KHAL

SCALE: 1:100, V:100

DATE: \_\_\_\_\_

DRAWING NO. \_\_\_\_\_





PROPOSED CROSS SECTION OF KHAL IMPROVEMENT (9)

CROSS SECTION OF	DHOLAI KHAL
SCALE	1" = 100'
DATE	

DRAWING NO.

