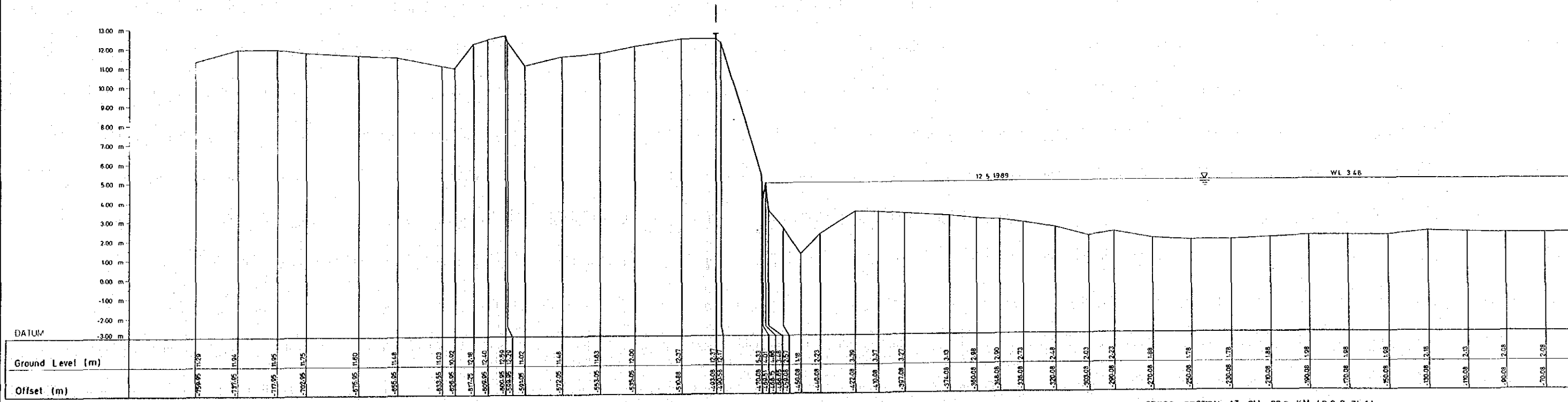
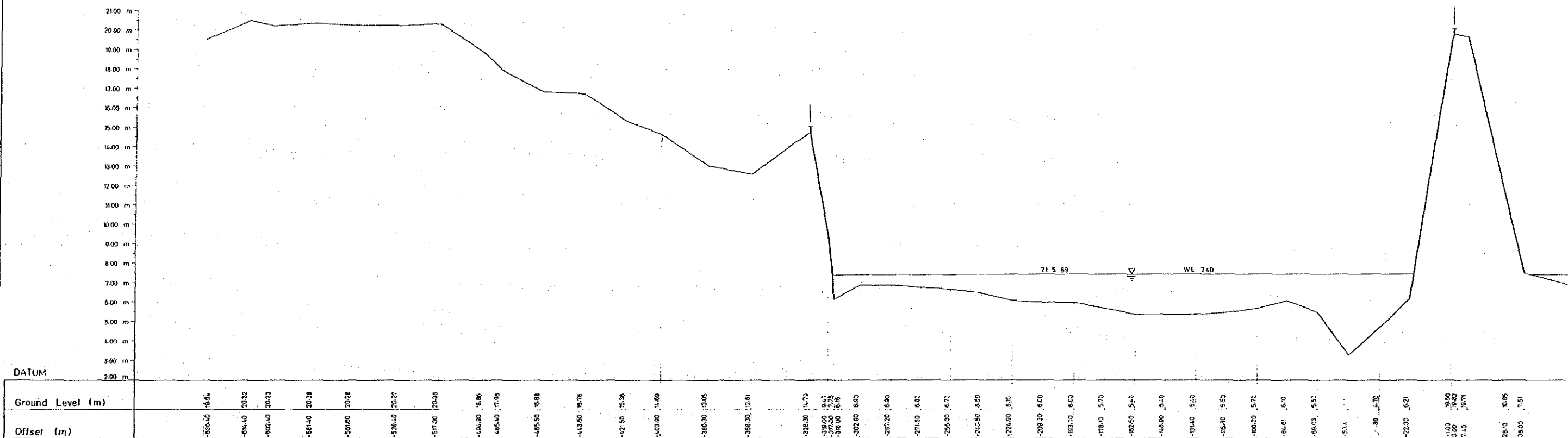


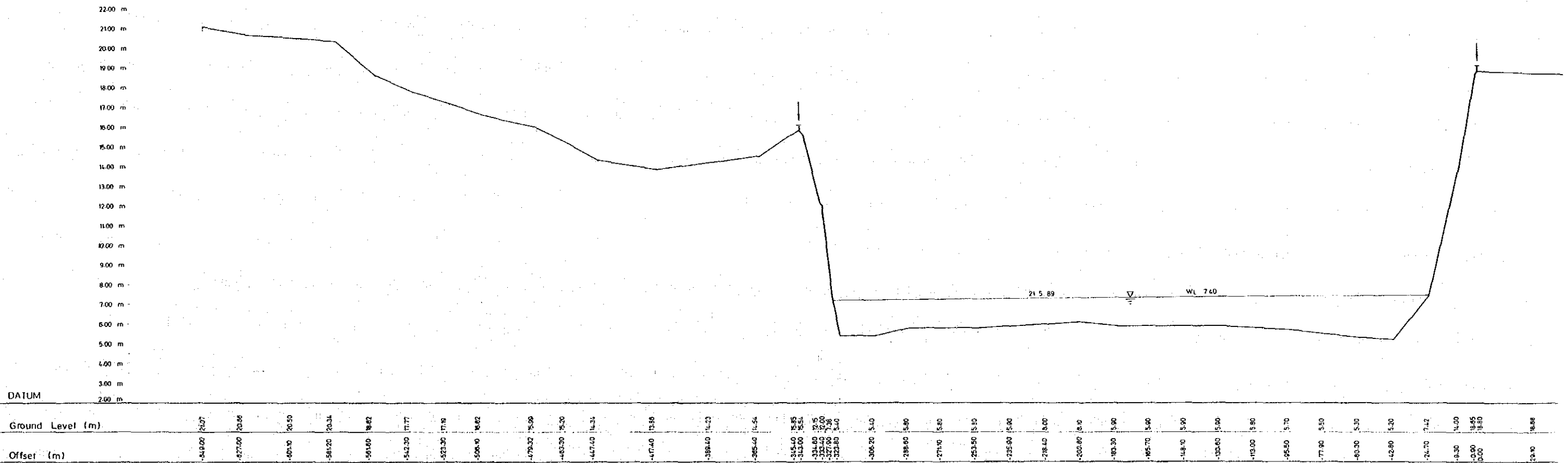
CROSS SECTION AT CH. 31.9 KM



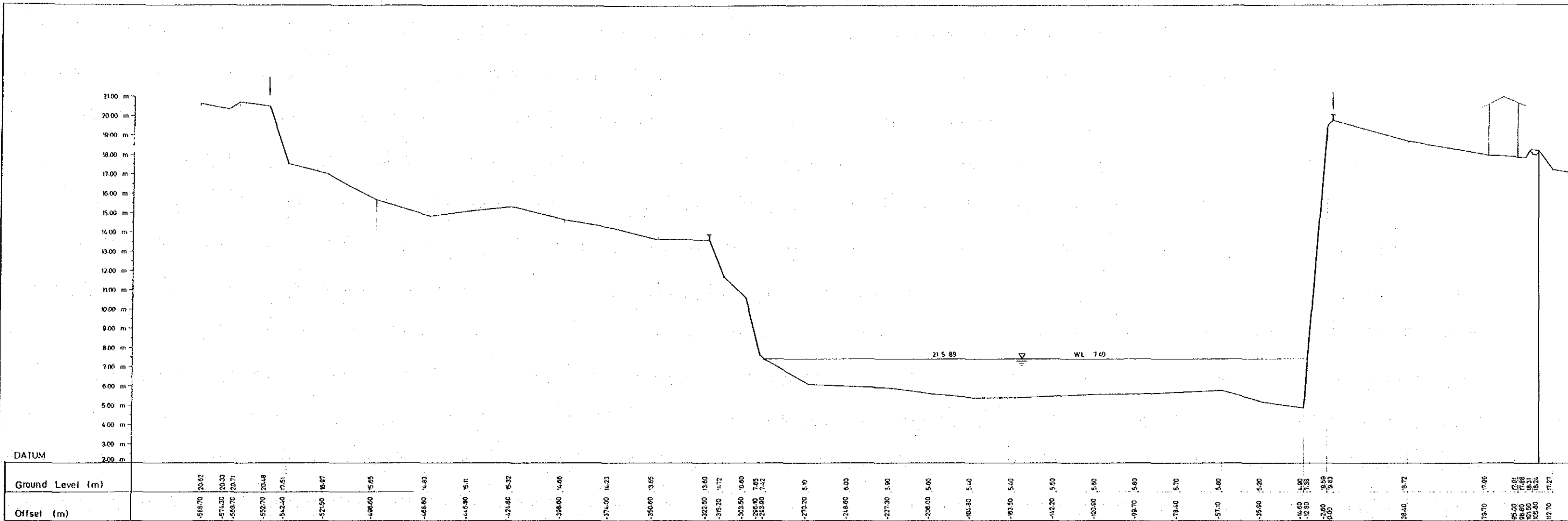
CROSS SECTION AT CH. 32.0 KM (O.C.S 31.4)



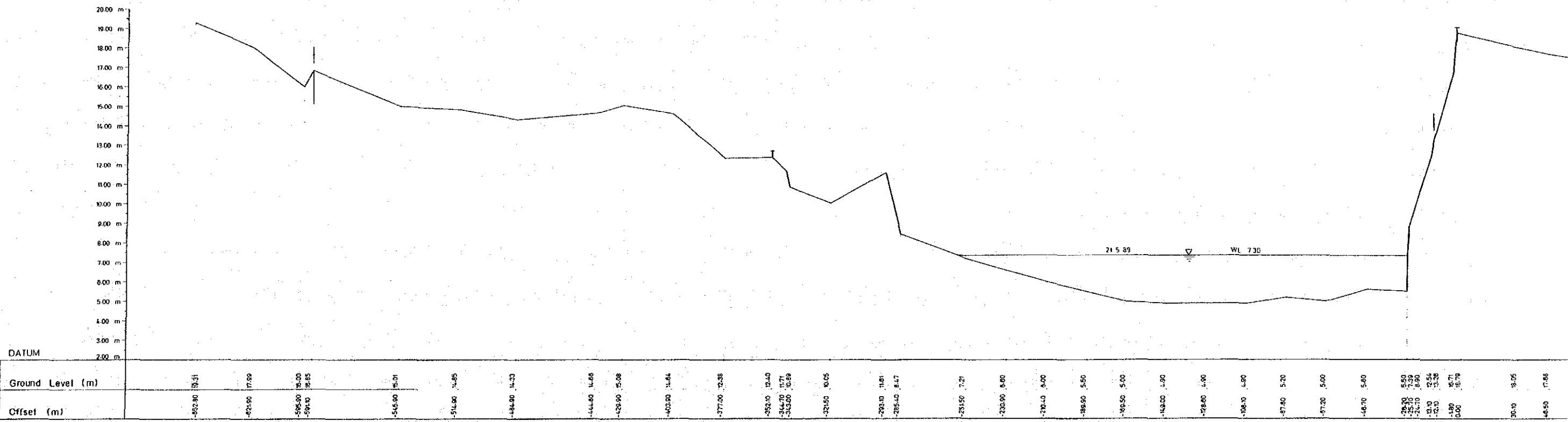
CROSS SECTION AT CH. 58.8 KM



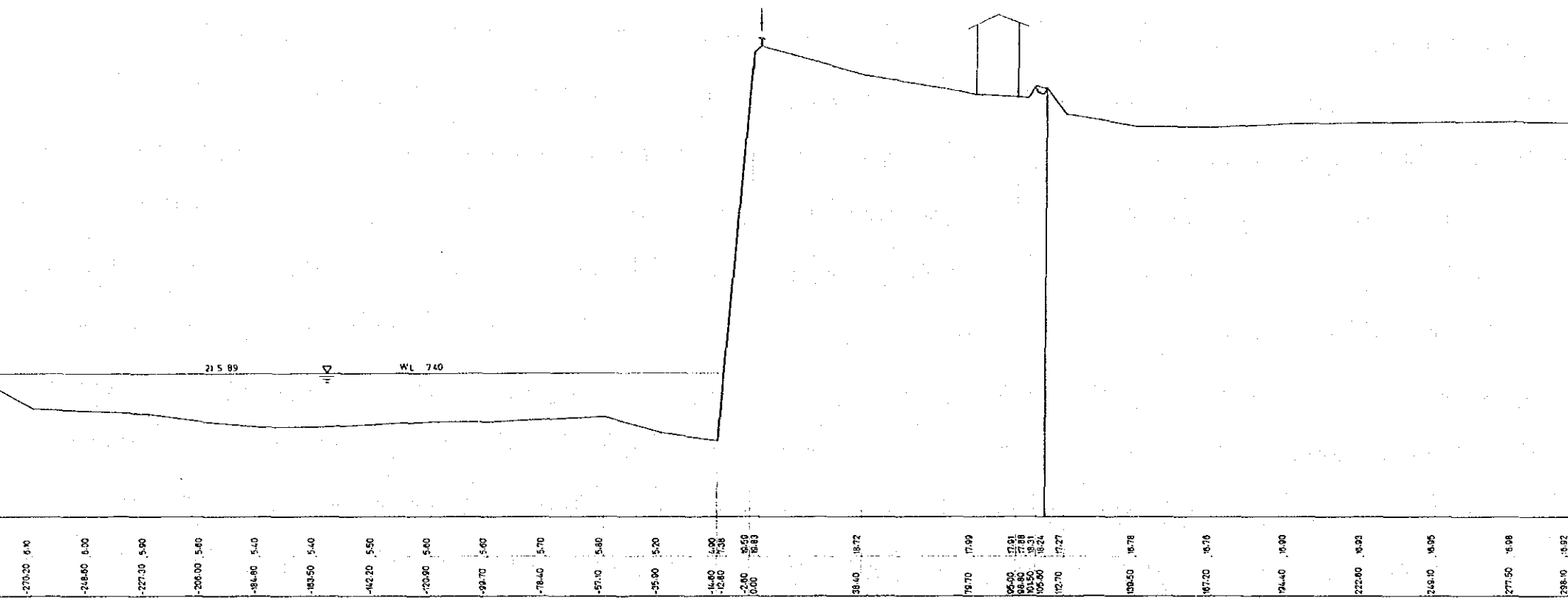
CROSS SECTION AT CH. 59.1 KM



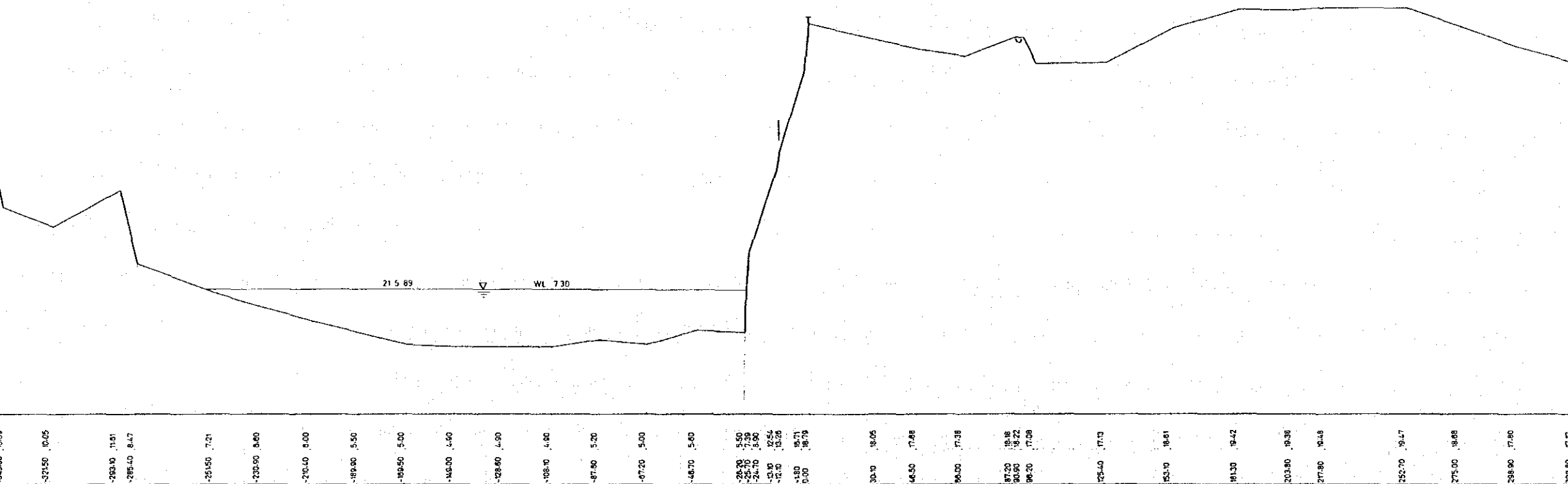
CROSS SECTION AT CH. 59.3 KM



CROSS SECTION AT CH. 59.5 KM



CROSS SECTION AT CH. 59.3 KM

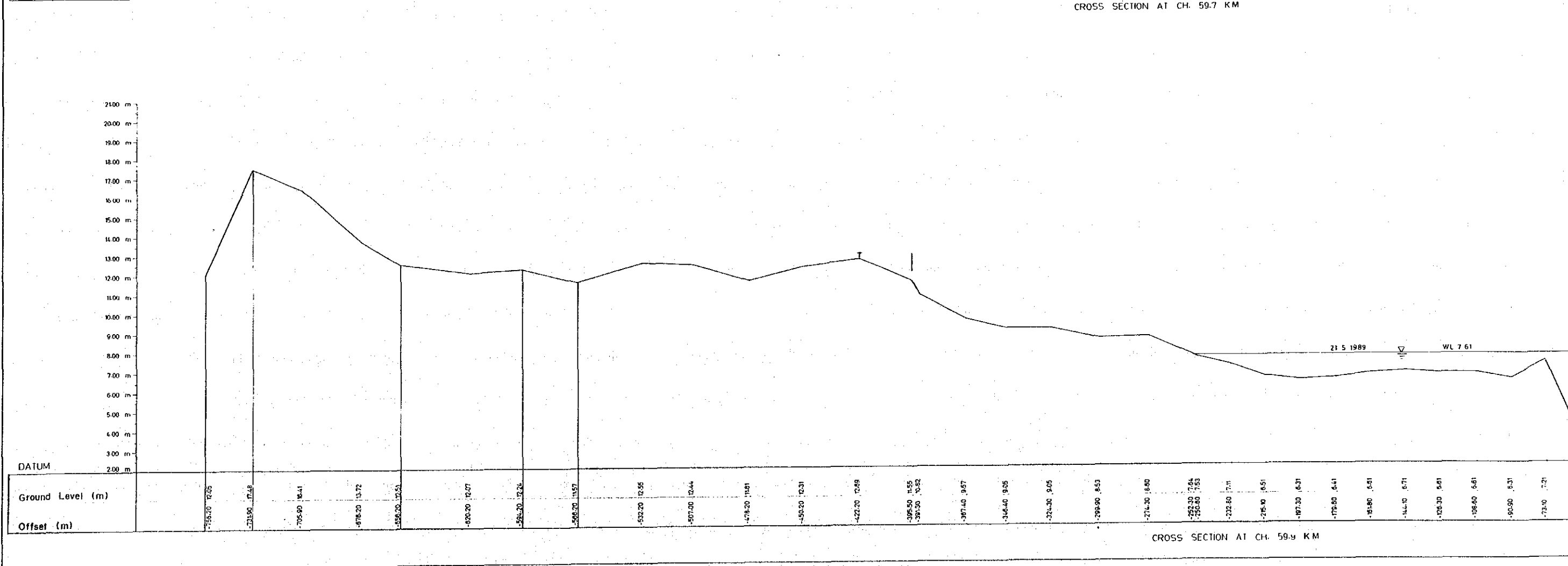
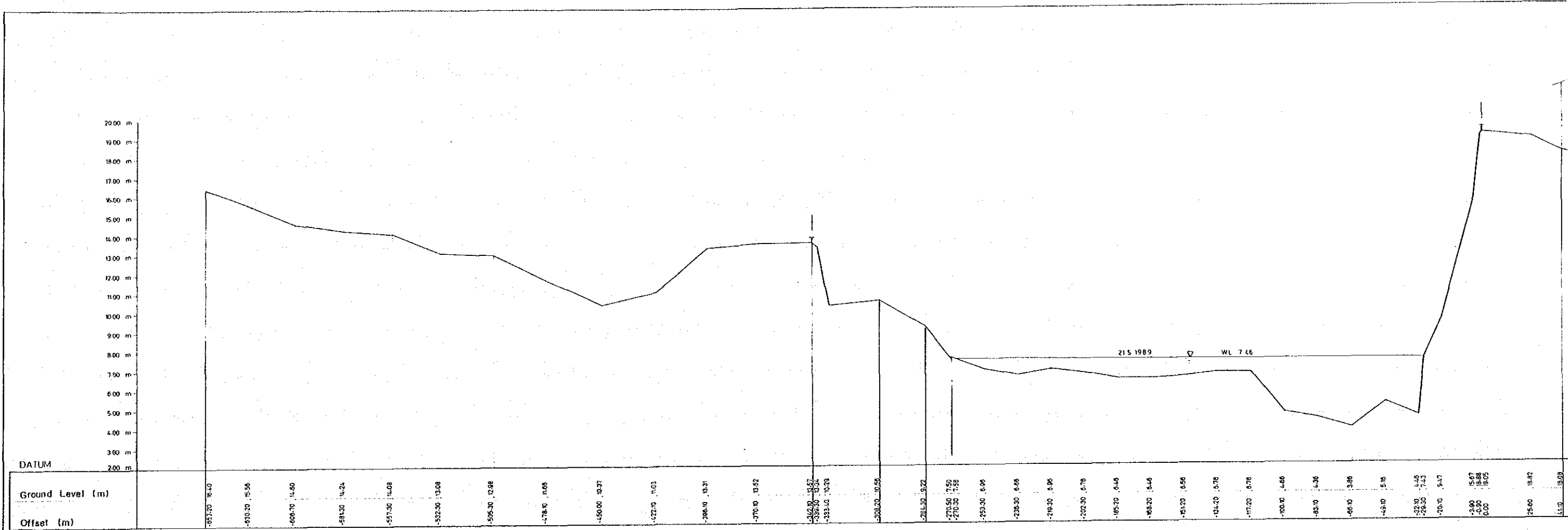


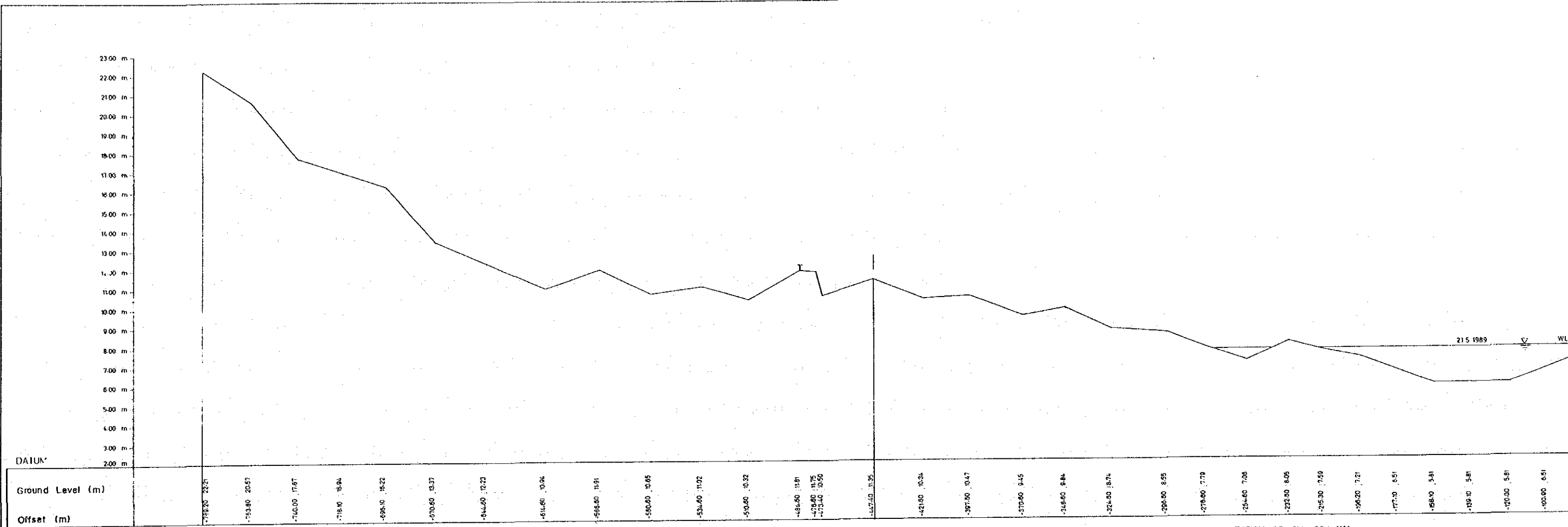
CROSS SECTION AT CH. 59.5 KM

REMARKS

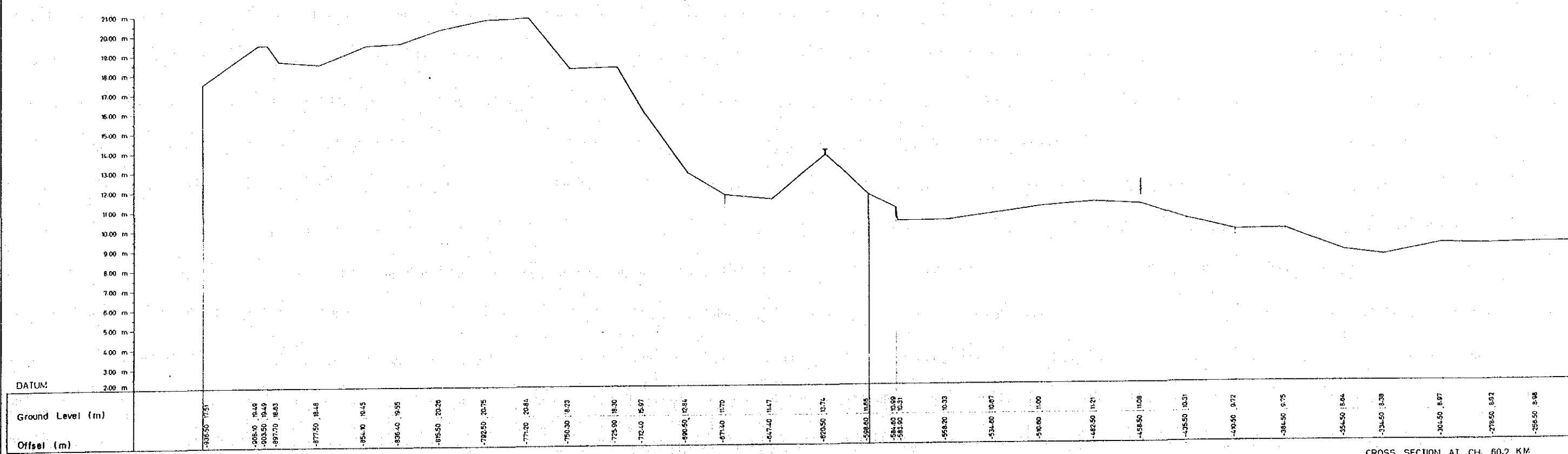
- ↑ HOUSE
- T IBM
- I RIVER WIDTH
- ~ ROAD or PATH
- O.C.S. Q.O. CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KARAN KOKUSAI SDN. BHD. (Contracting Staff)			
SECTION	From IBM NO KL B - 59.3 KM to IBM NO KL B - 59.5 KM		
SHEET NO.	54 / 108	DATE SURVEYED	MAY 1989
SCALE	Horizontal - 1 / 1,000	Vertical - 1 / 100	

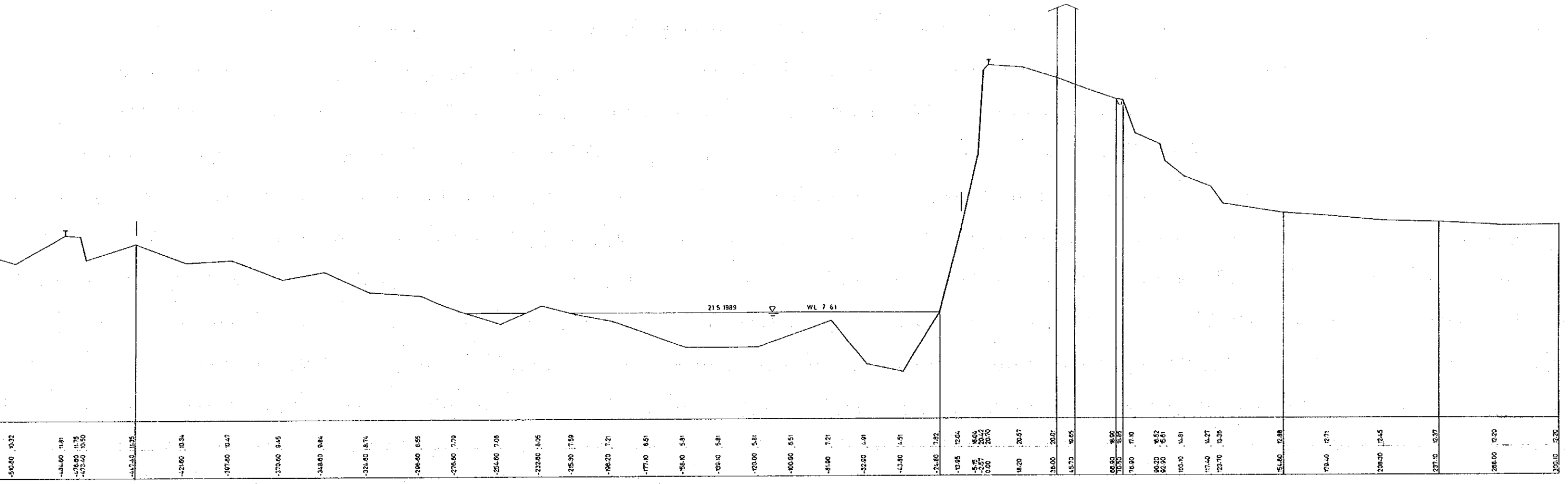




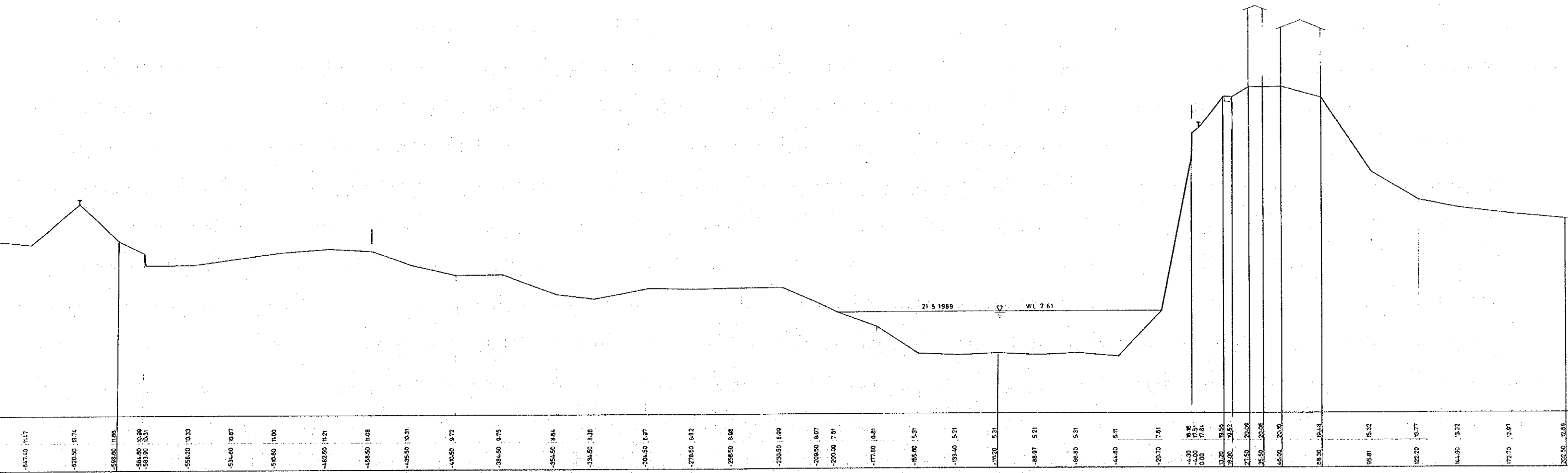
CROSS SECTION AT CH. 60.1 KM



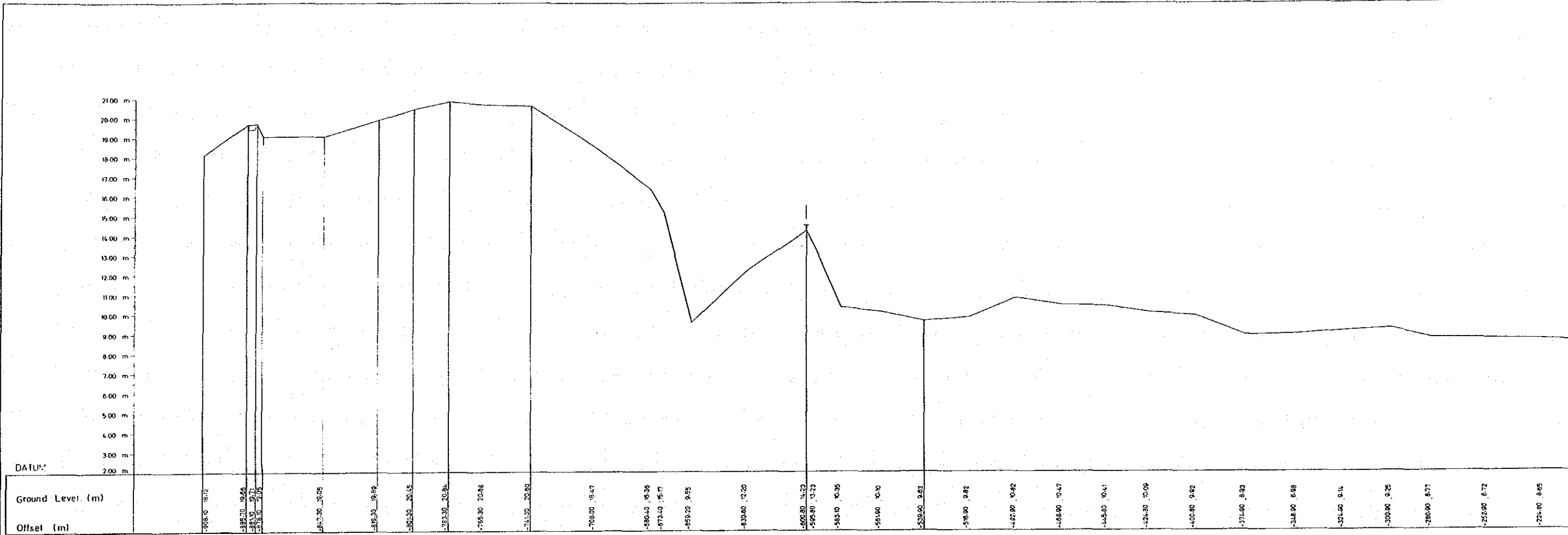
CROSS SECTION AT CH. 60.2 KM



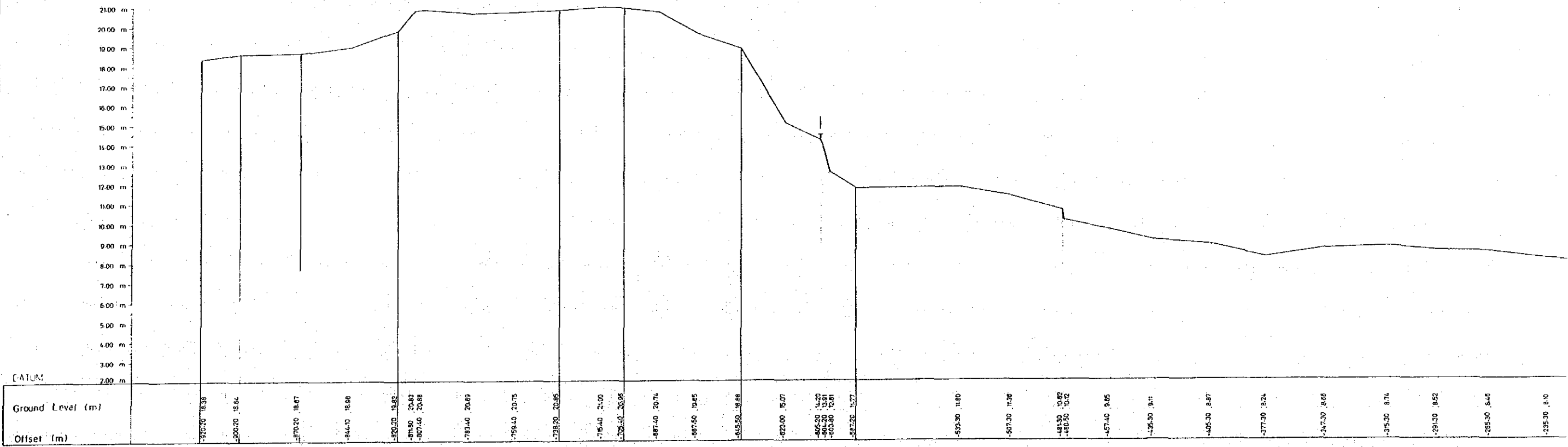
CROSS SECTION AT CH. 60.1 KM



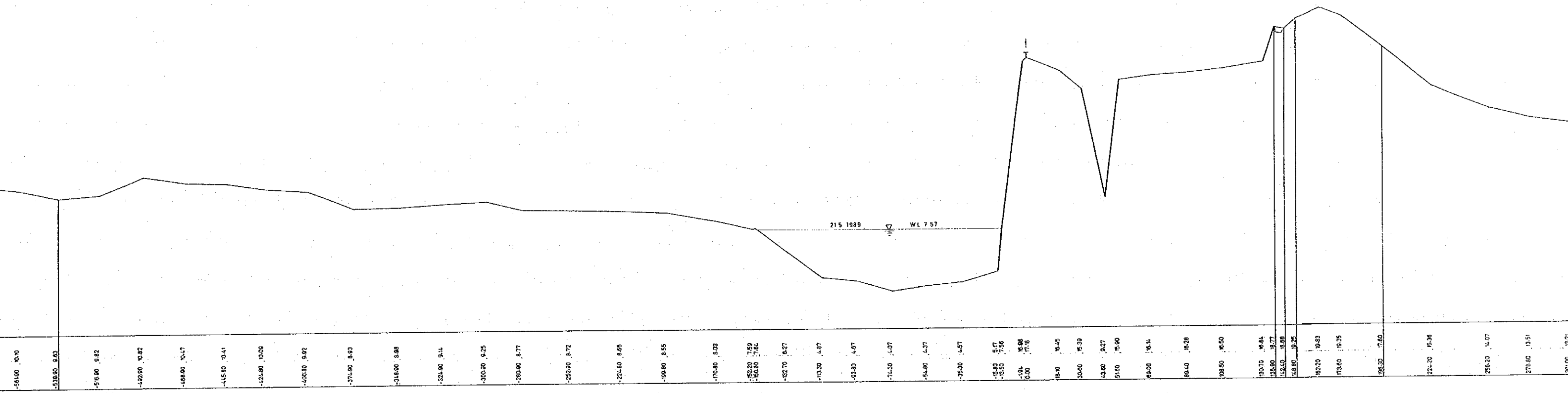
CROSS SECTION AT CH. 60.2 KM



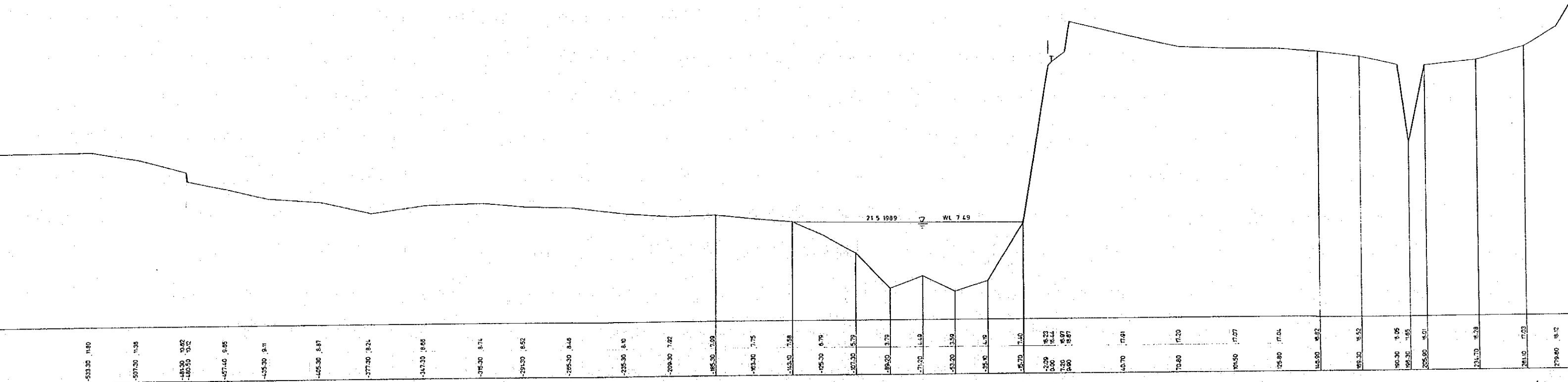
CROSS SECTION AT CH. 60.4 KM



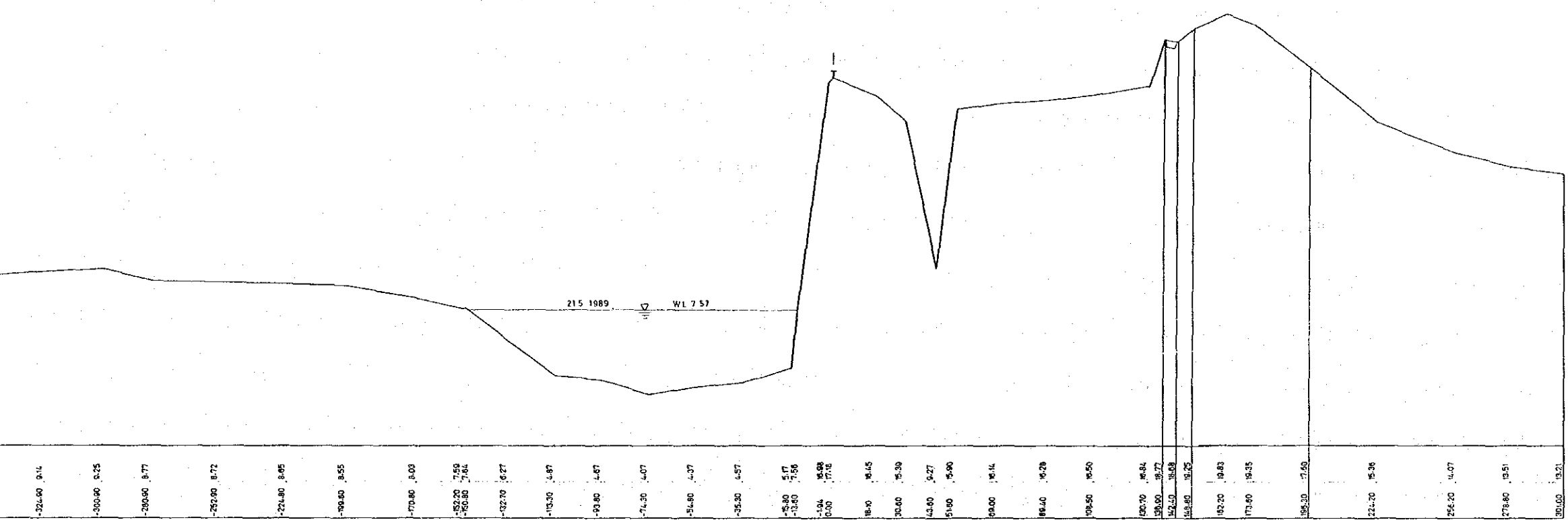
CROSS SECTION AT CH. 60.6 KM



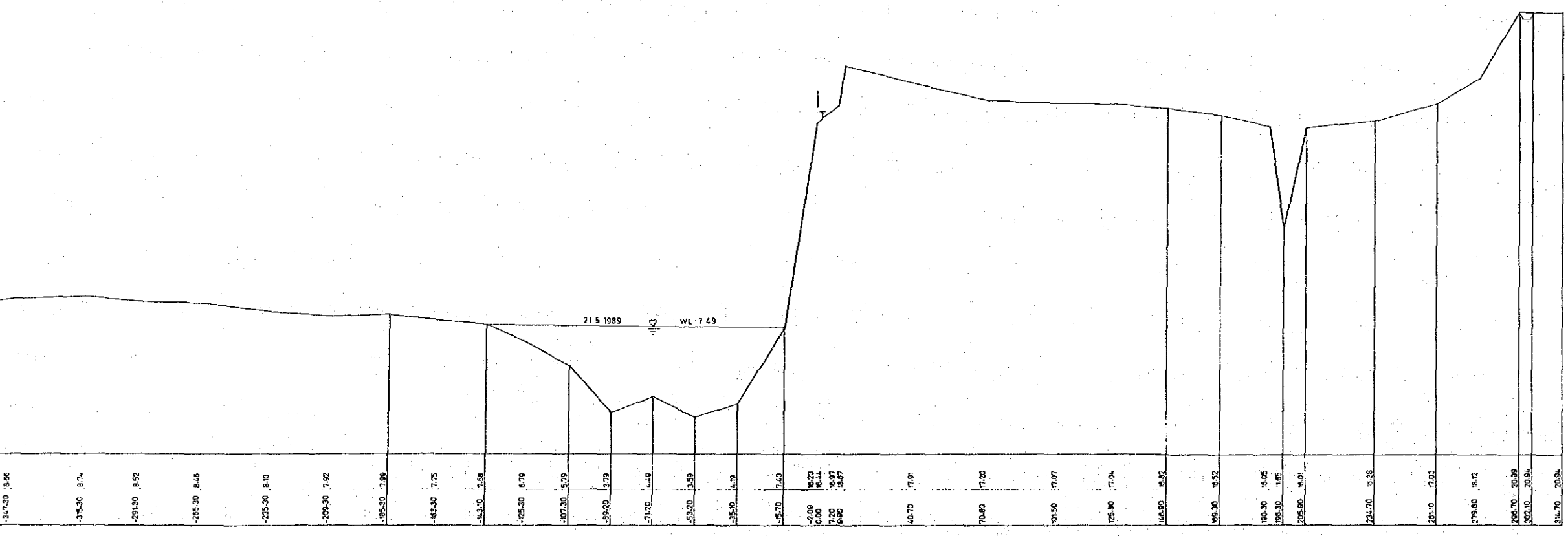
CROSS SECTION AT CH. 60.4 KM



CROSS SECTION AT CH. 60.6 KM



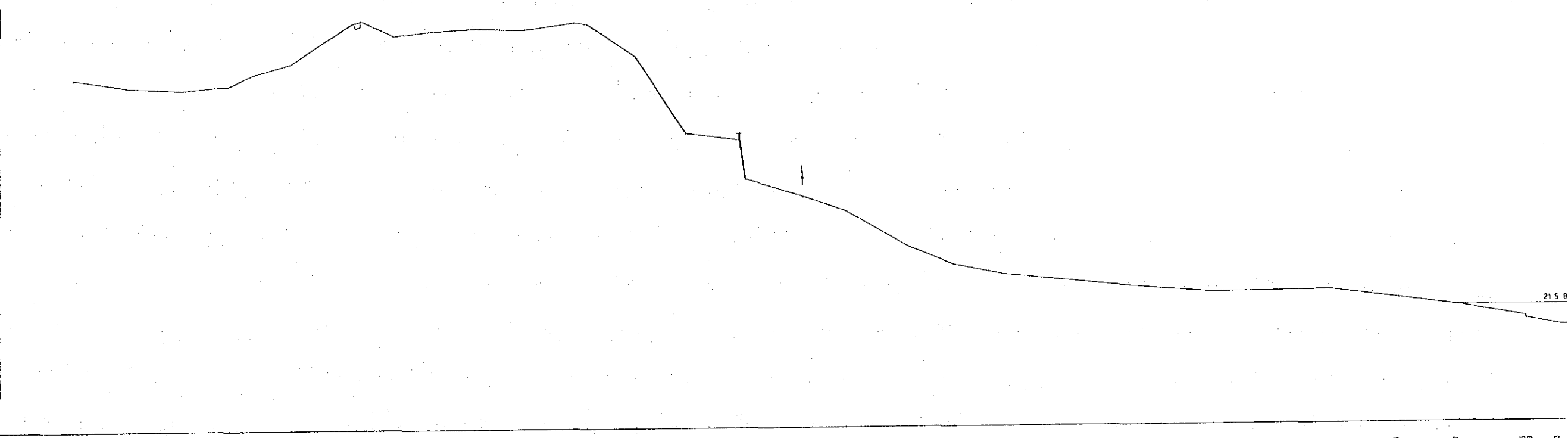
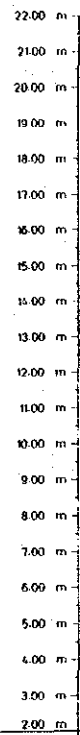
CROSS SECTION AT CH. 60.4 KM



CROSS SECTION AT CH. 60.6 KM

- REMARKS :
- ⊙ HOUSE
 - ┆ TBM
 - | RIVER WIDTH
 - ~ ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION	
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN	
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)	
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)	
SECTION	From IBM NO. KL 8 - 60.4 KM To IBM NO. KL 8 - 60.6 KM
SHEET No. 57/108	DATE SURVEYED MAY 1989
SCALE	Horizontal : 1 / 1,000 Vertical : 1 / 100



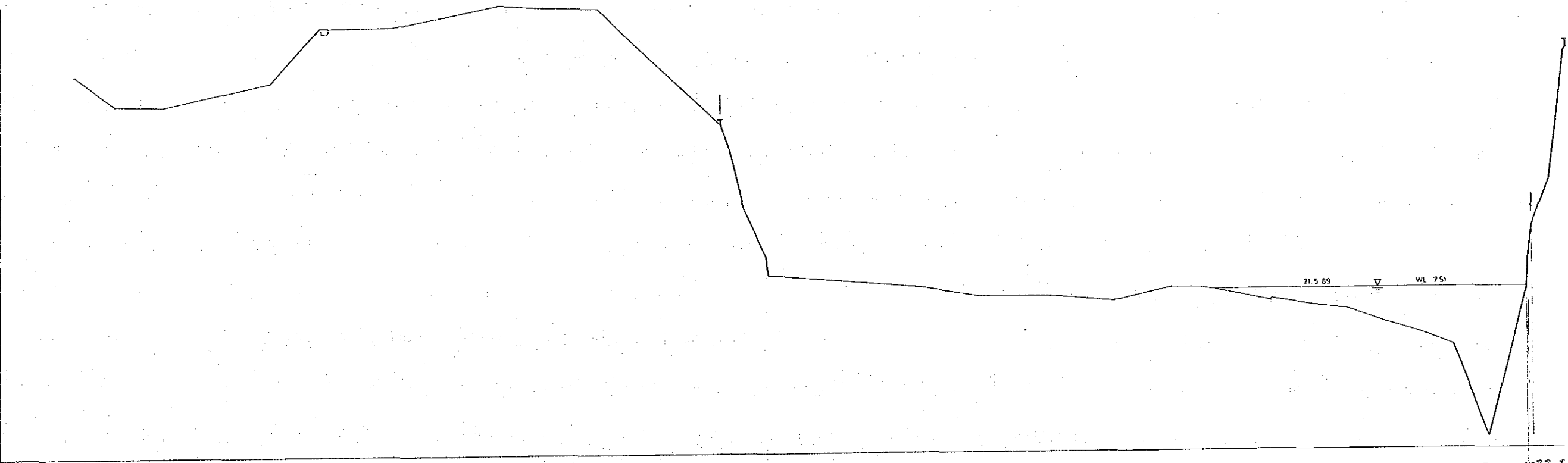
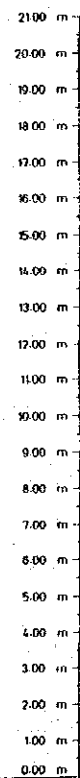
DAIUM

Ground Level (m)

Offset (m)

-818.00	18.54	-792.00	18.12	-768.00	17.80	-746.00	18.19	-735.00	18.71	-777.00	18.23	-662.00	21.03	-688.00	21.13	-654.00	21.22	-669.00	20.51	-653.00	20.72	-631.80	20.85	-609.00	20.70	-585.00	21.12	-579.50	21.06	-555.10	18.53	-532.90	15.86	-508.00	15.52	-505.50	13.08	-478.10	12.86	-458.16	12.16	-428.20	10.43	-407.20	8.90	-383.50	8.10	-358.30	8.85	-332.20	8.59	-310.20	8.40	-285.20	8.21	-258.20	8.22	-232.10	8.29	-200.10	7.86	-173.10	7.47	-142.10	6.85	-125.10	6.85	-106.10	6.53
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CROSS SECTION AT CH. 60.8 KM



DAIUM

Ground Level (m)

Offset (m)

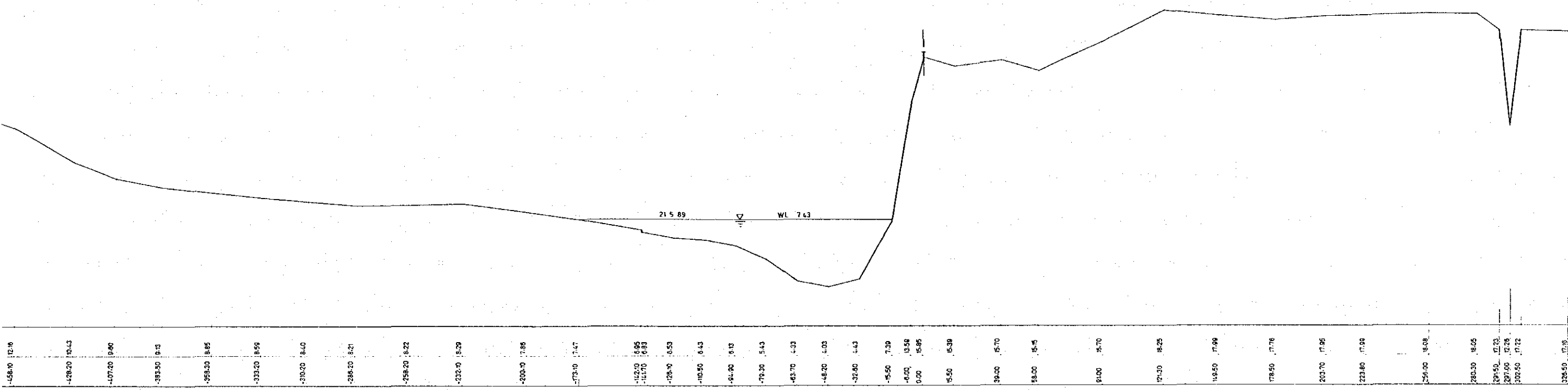
-692.00	17.80	-673.70	18.38	-651.60	18.30	-633.40	18.79	-601.70	17.40	-578.80	19.91	-574.50	19.89	-545.10	18.08	-520.60	20.40	-485.70	20.91	-478.11	20.70	-448.00	20.72	-415.30	17.48	-392.00	15.20	-388.80	14.42	-382.10	16.41	-374.00	18.14	-370.00	18.51	-334.10	19.00	-298.30	7.89	-272.40	7.27	-238.40	7.24	-208.70	18.98	-181.80	7.59	-167.90	7.57	-161.00	7.44	-136.10	18.85	-132.70	7.61	-115.70	8.71	-100.70	8.51	-84.70	5.91	-68.70	5.41	-52.80	4.81	-36.80	0.49	-8.70	7.44	-8.00	10.28	-8.00	12.48	1.00	18.36
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CROSS SECTION AT CH. 61.0 KM

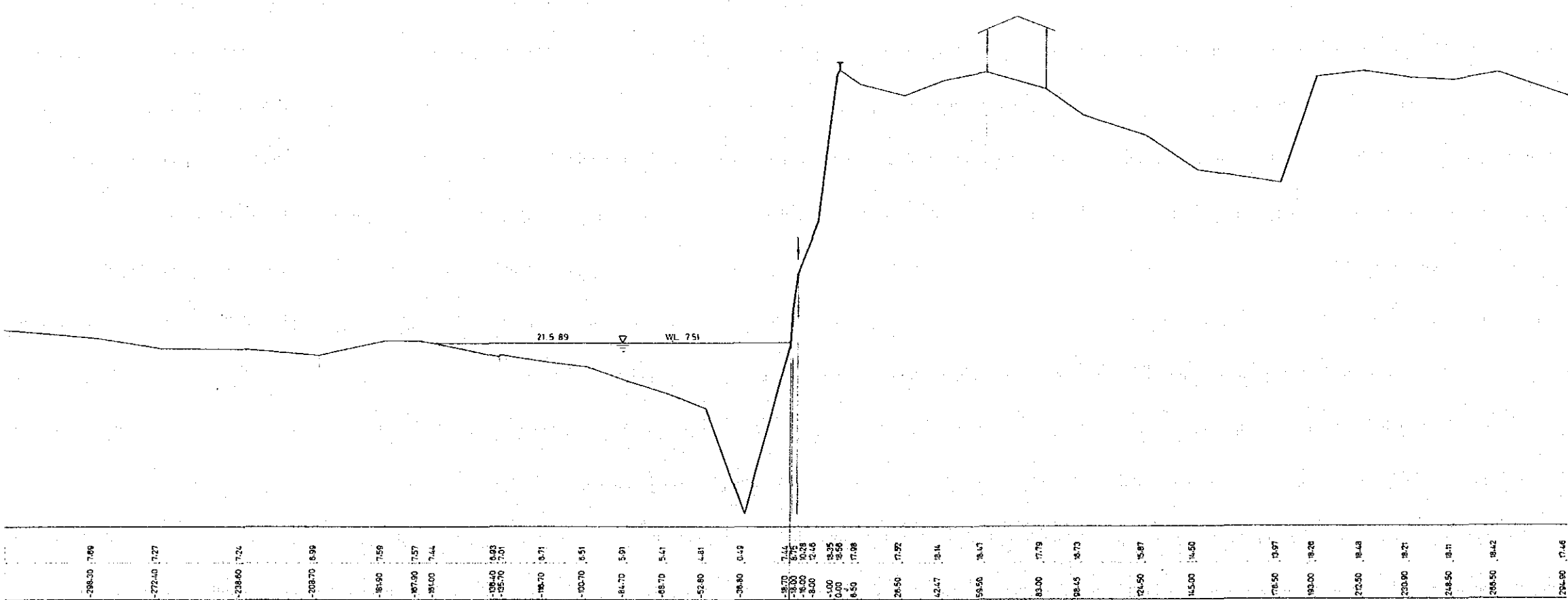
21.5 89

WL 751

21.5 8



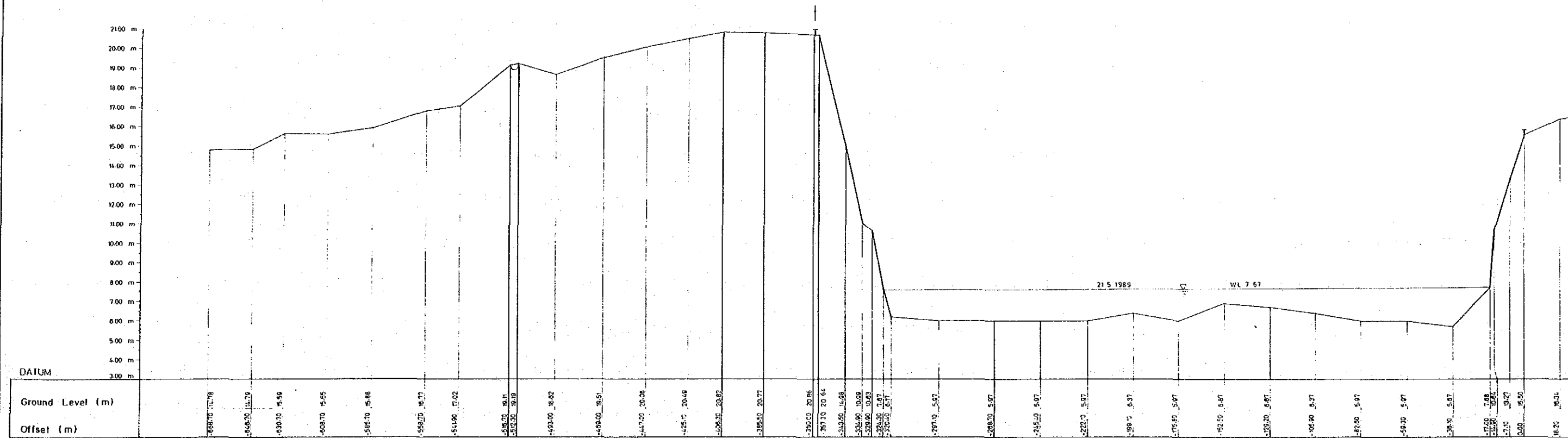
CROSS SECTION AT CH. 60.8 KM



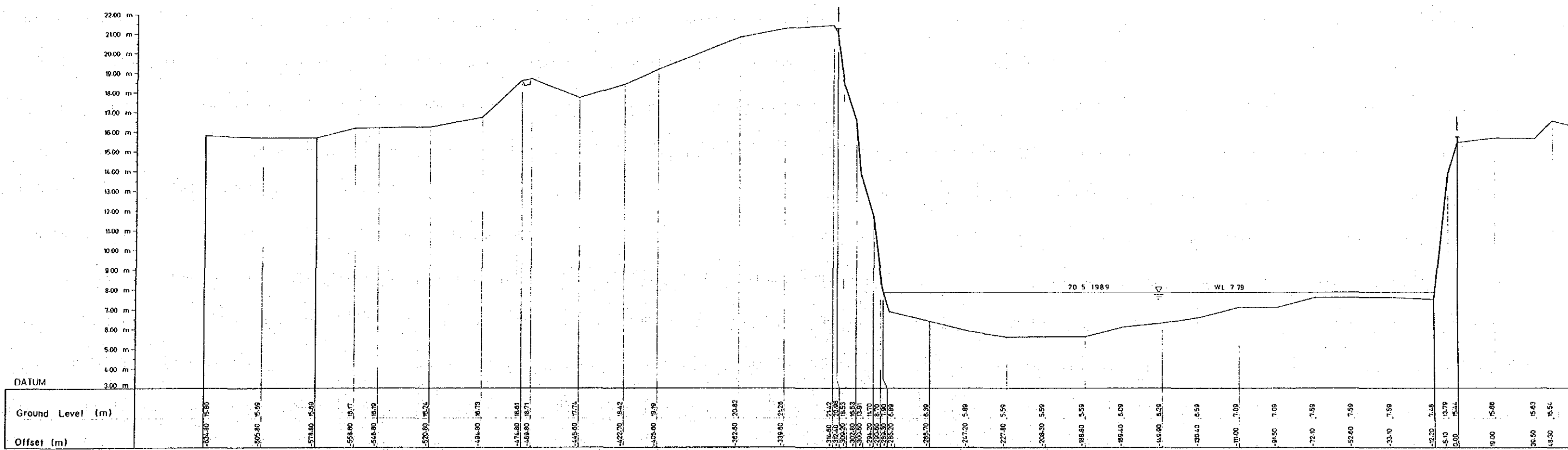
CROSS SECTION AT CH. 61.0 KM

- REMARKS :
- ↑ HOUSE
 - T TBM
 - I RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

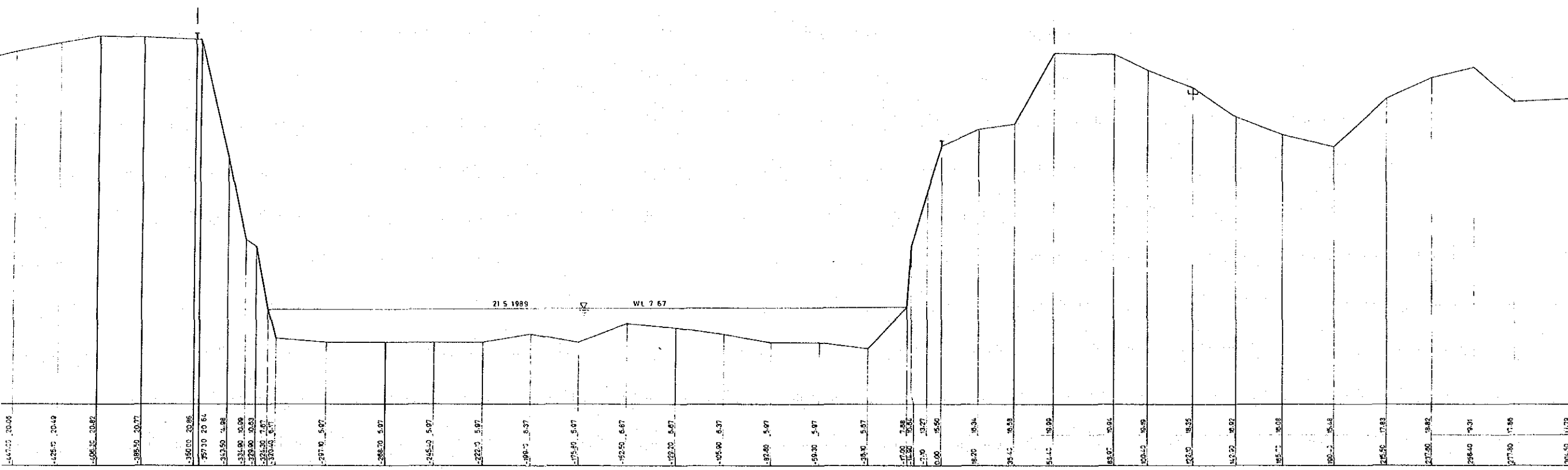
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION	
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN	
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)	
KAJIAN KOKUSAI SON. BHD. (Consulting Surveyor)	
SECTION	From TBM NO. KL 8-60.8 KM To TBM NO. KL 8-61.0 KM
SHEET NO.	58/108
DATE SURVEYED	MAY 1980
SCALE	Horizontal : 1 / 1,000 Vertical : 1 / 100



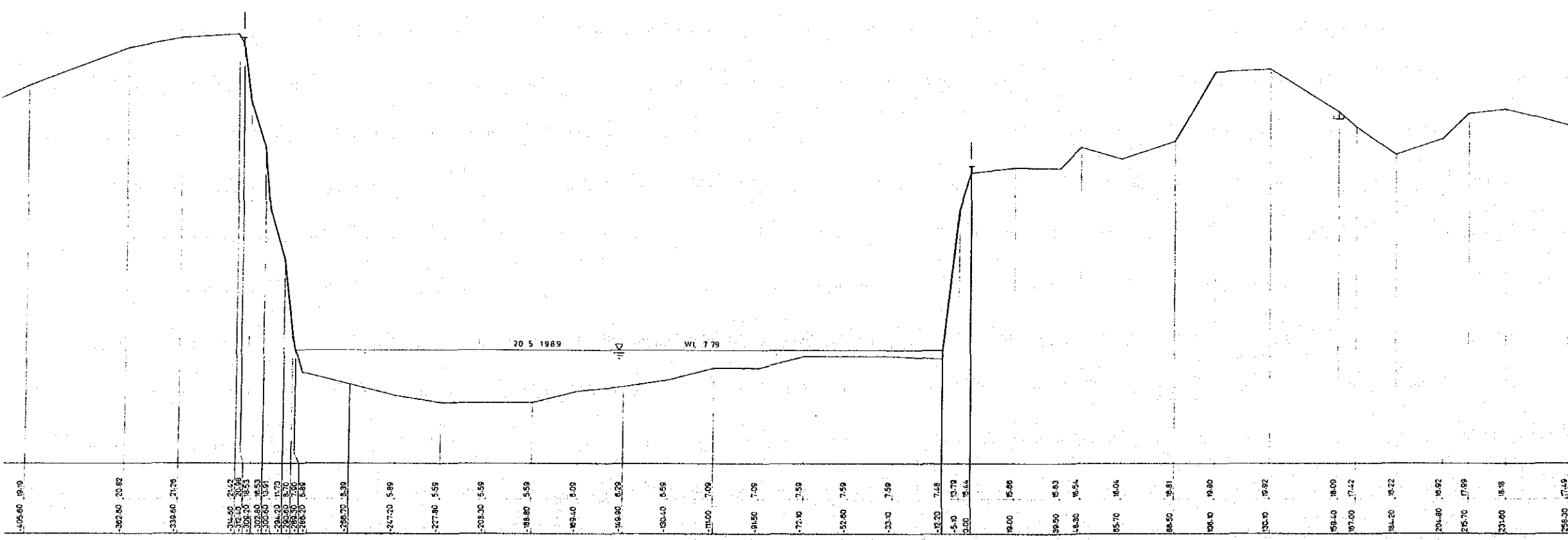
CROSS SECTION AT CH. 61.2 KM



CROSS SECTION AT CH. 61.4 KM



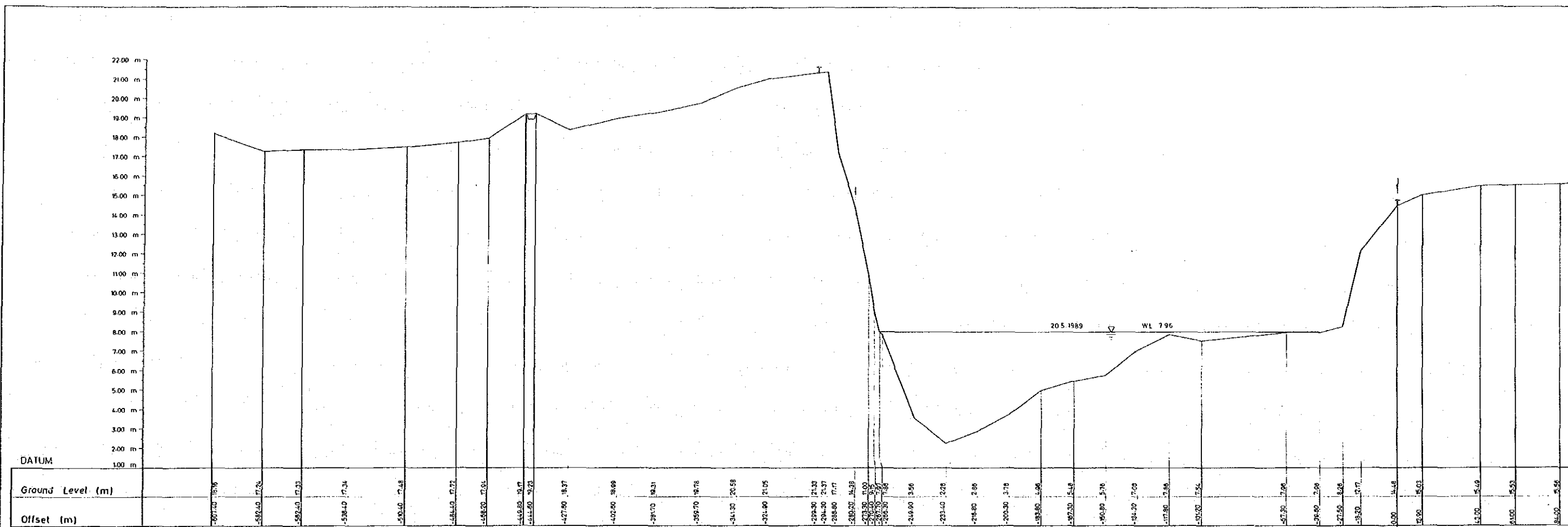
CROSS SECTION AT CH. 61.2 KM



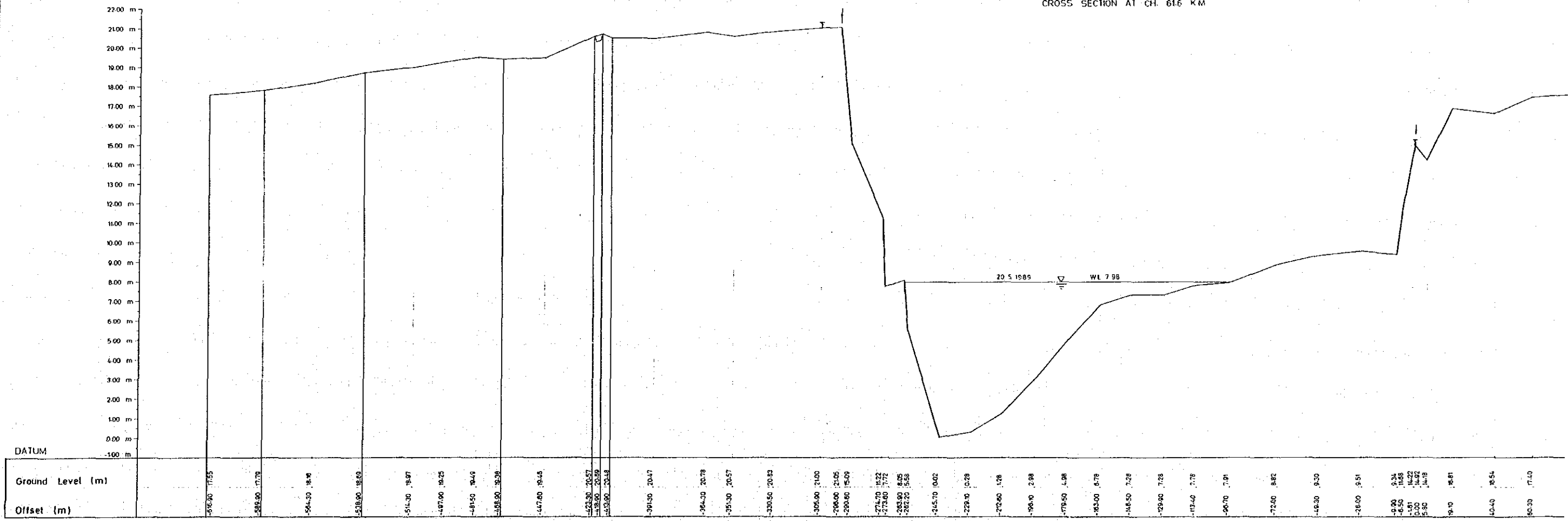
CROSS SECTION AT CH. 61.4 KM

- REMARKS
- ⏏ HOUSE
 - T I.B.M.
 - | RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

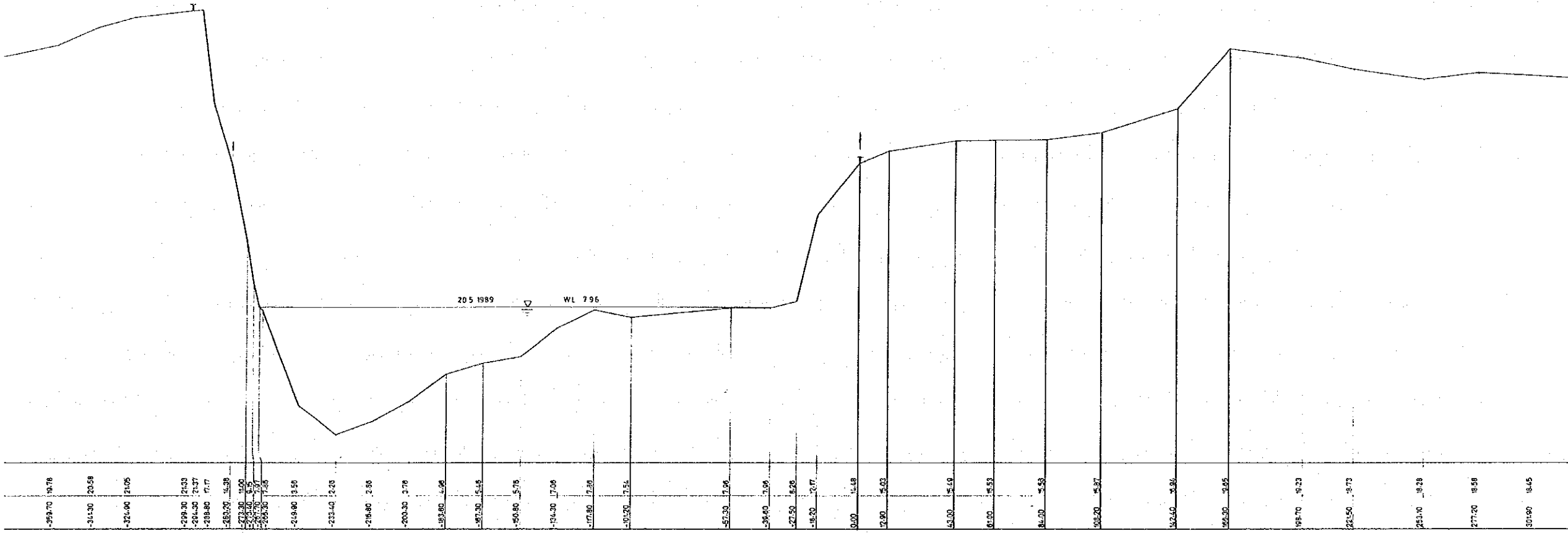
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION	From IBM No. KL 8 - 61.2 KM To IBM No. KL 8 - 61.4 KM		
SHEET NO.	59/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000		Vertical : 1 / 100



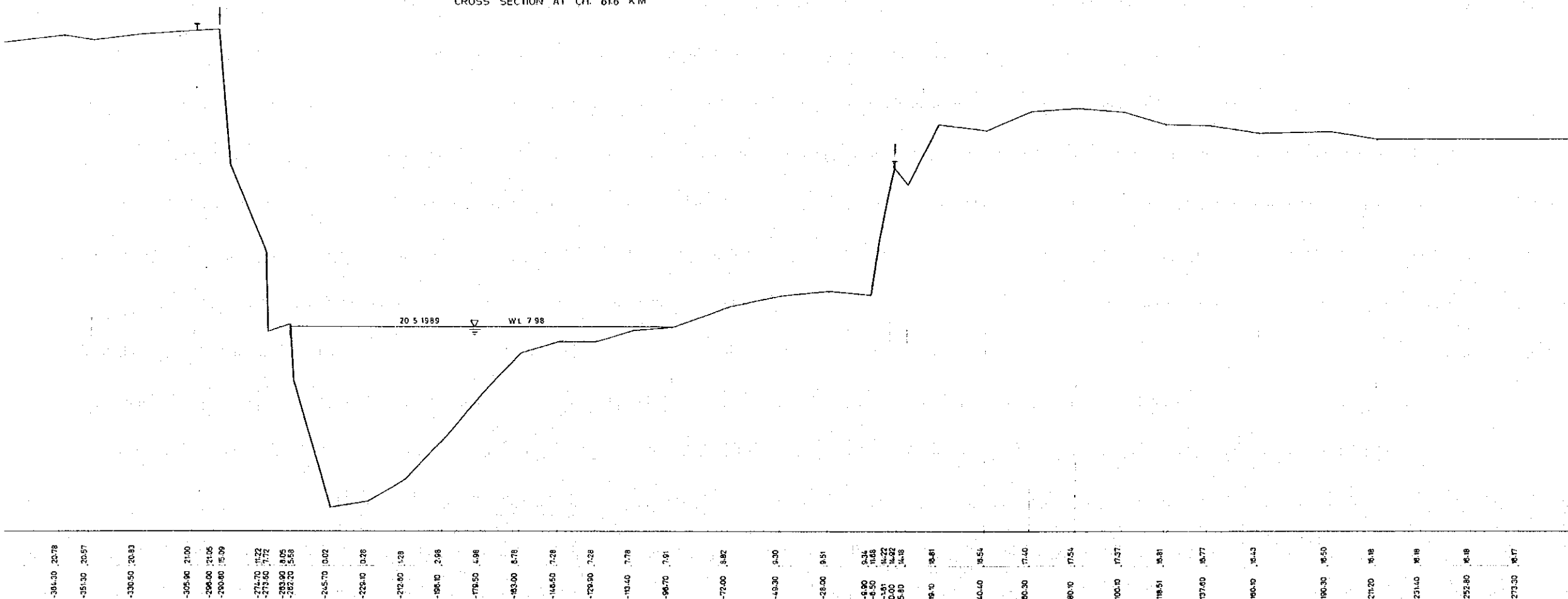
CROSS SECTION AT CH. 61.6 KM



CROSS SECTION AT CH. 61.8 KM



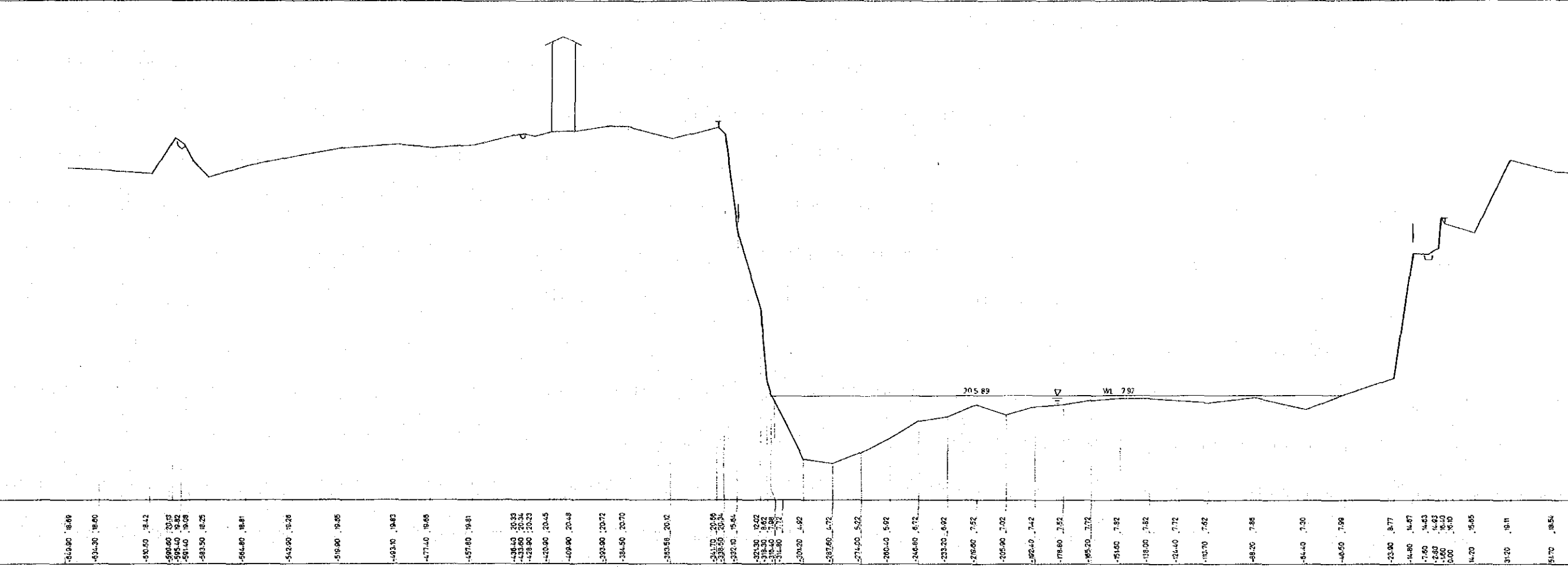
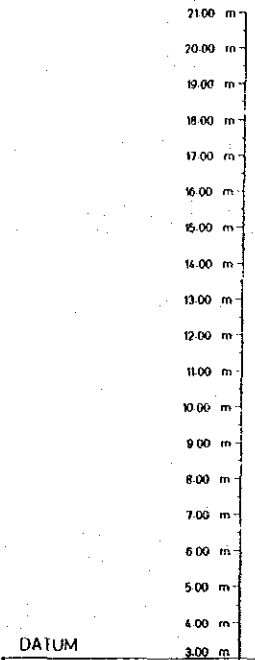
CROSS SECTION AT CH. 616 KM



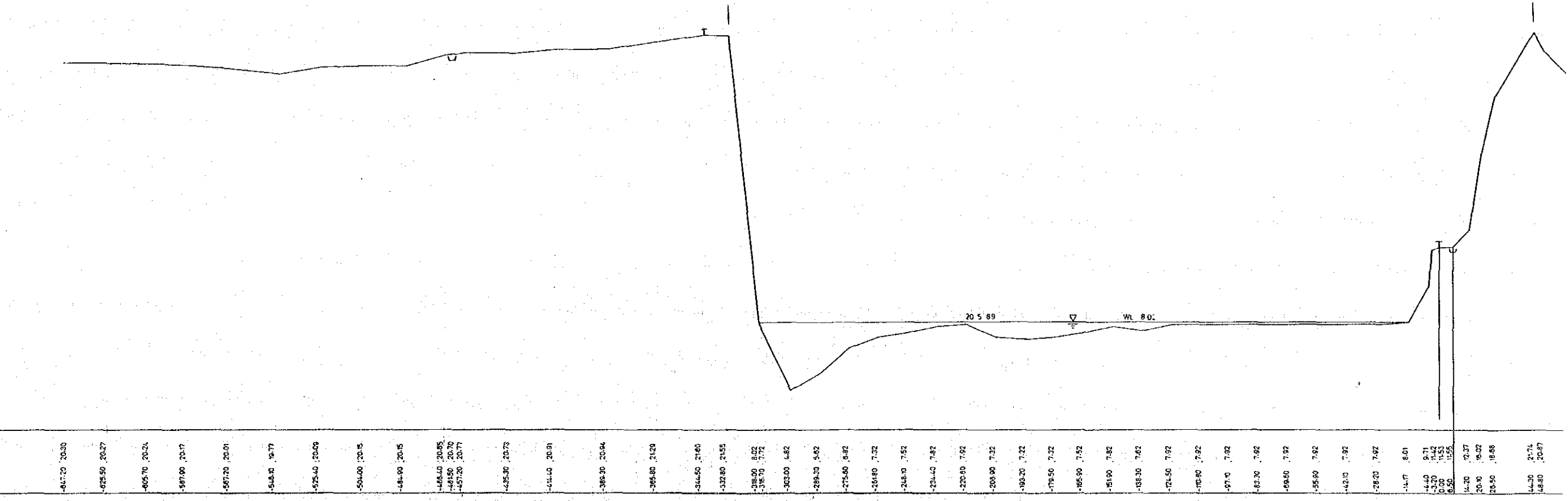
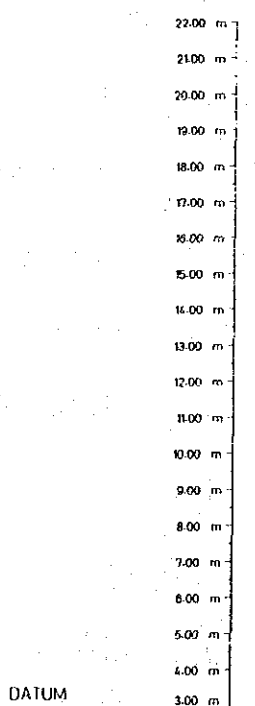
CROSS SECTION AT CH. 618 KM

- REMARKS
- ↑ HOUSE
 - T TBM
 - I RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

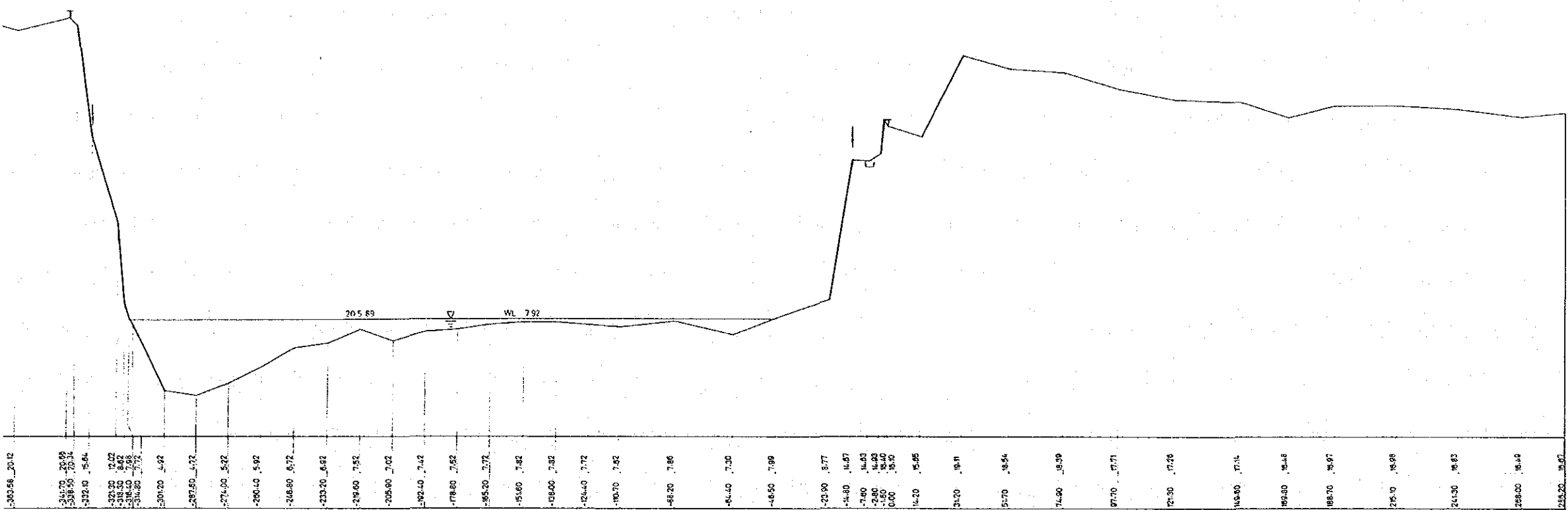
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SON. BHD. (Consulting Surveyor)			
SECTION	From TBM NO. KL 8-616 KM To TBM NO. KL 8-618 KM		
SHEET NO.	60/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal - 1 / 1,000	Vertical - 1 / 100	

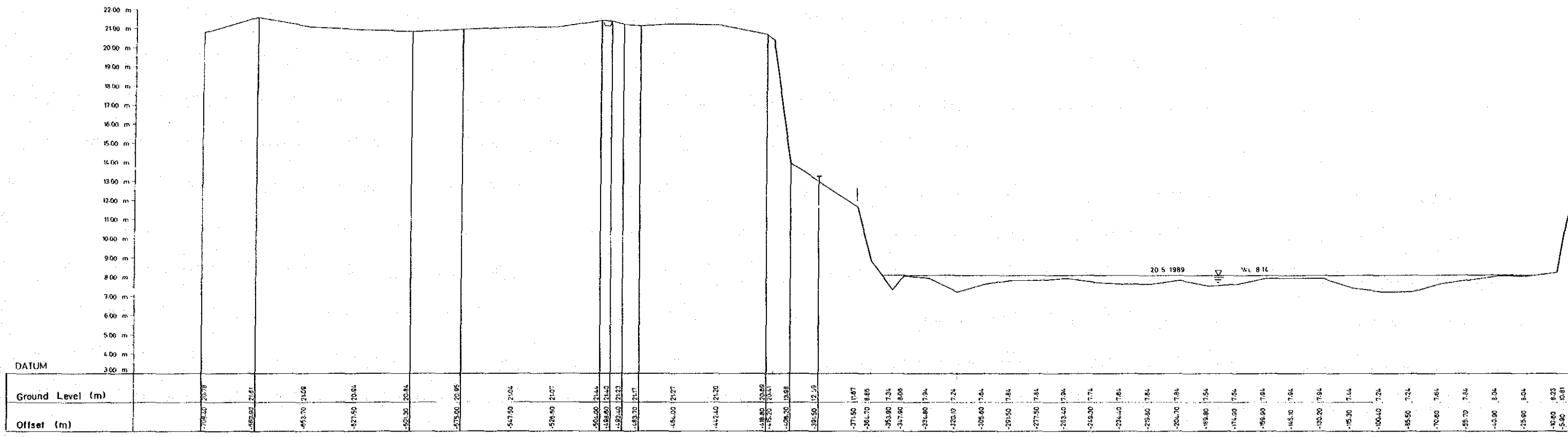


CROSS SECTION AT CH. 62.1KM

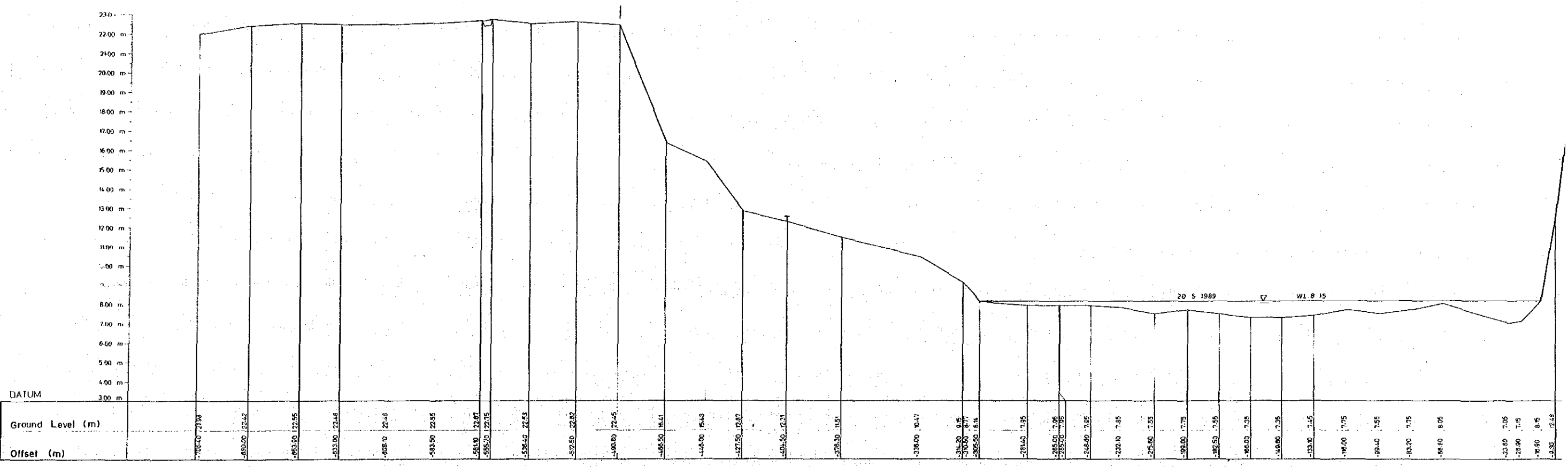


CROSS SECTION AT CH. 62.3KM

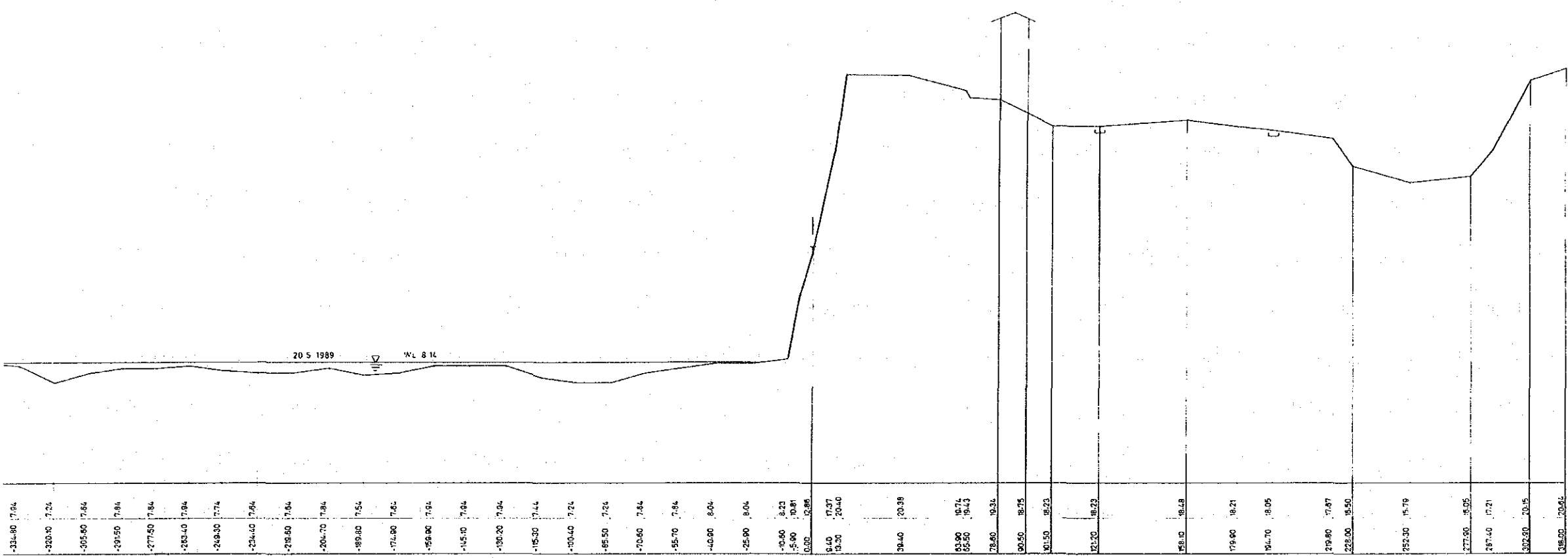




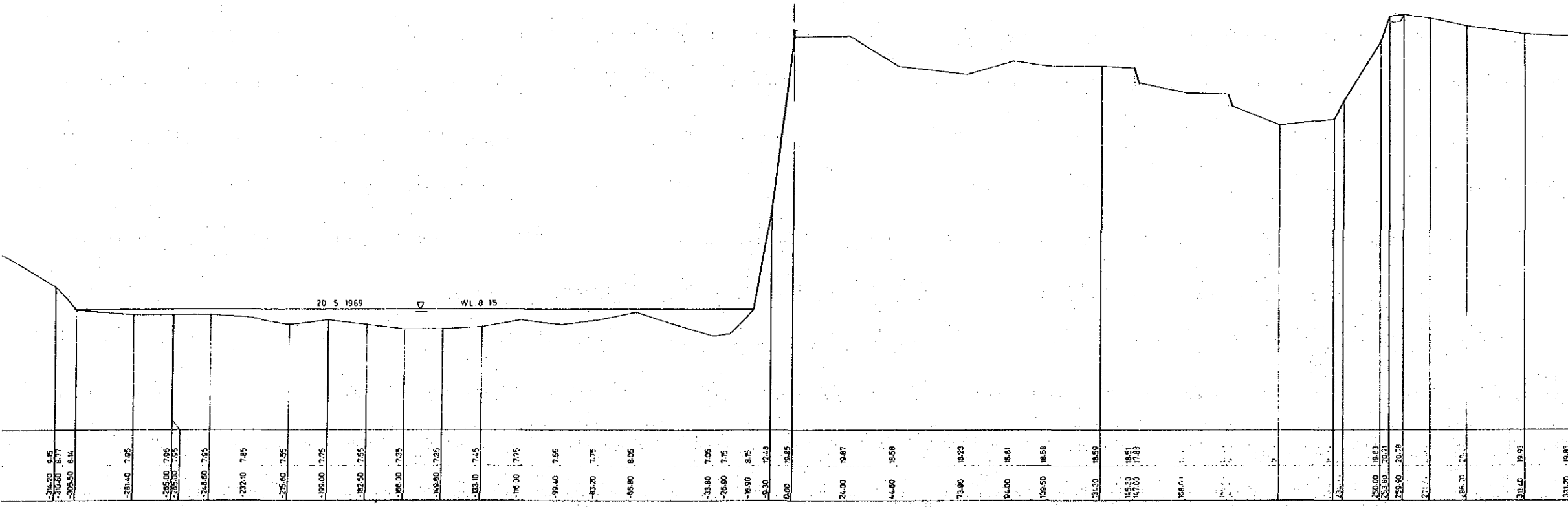
CROSS SECTION AT CH. 62.5 KM



CROSS SECTION AT CH. 62.7 KM



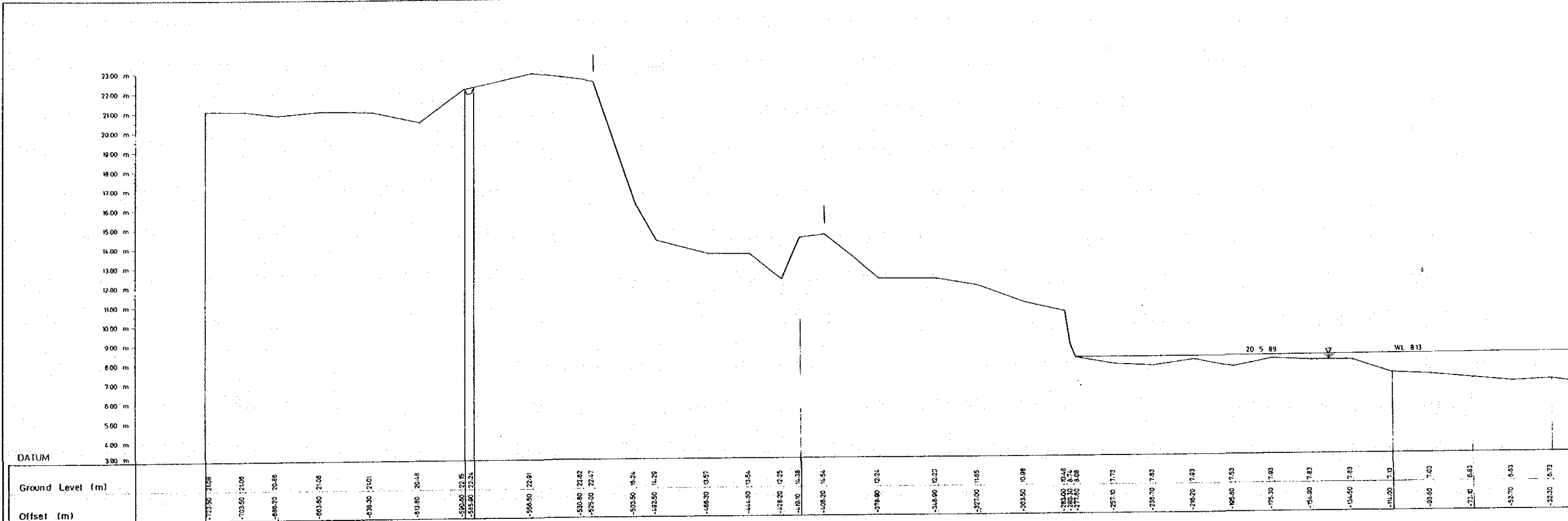
CROSS SECTION AT CH. 62.5 KM



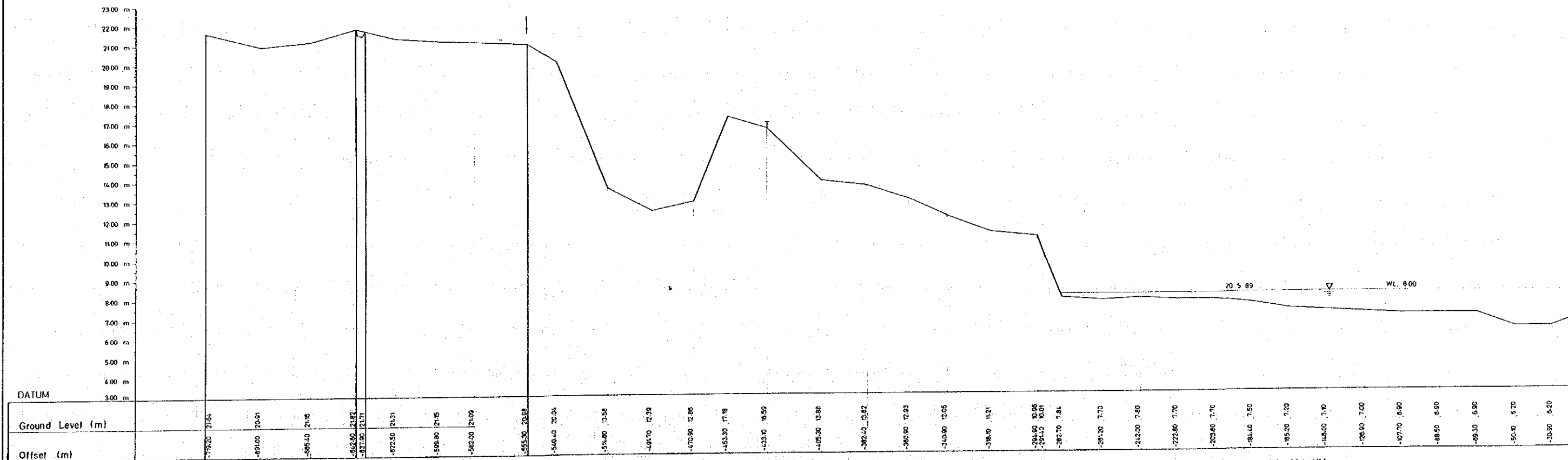
CROSS SECTION AT CH. 62.7 KM

- REMARKS
- ↑ HOUSE
 - T TBM
 - I RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

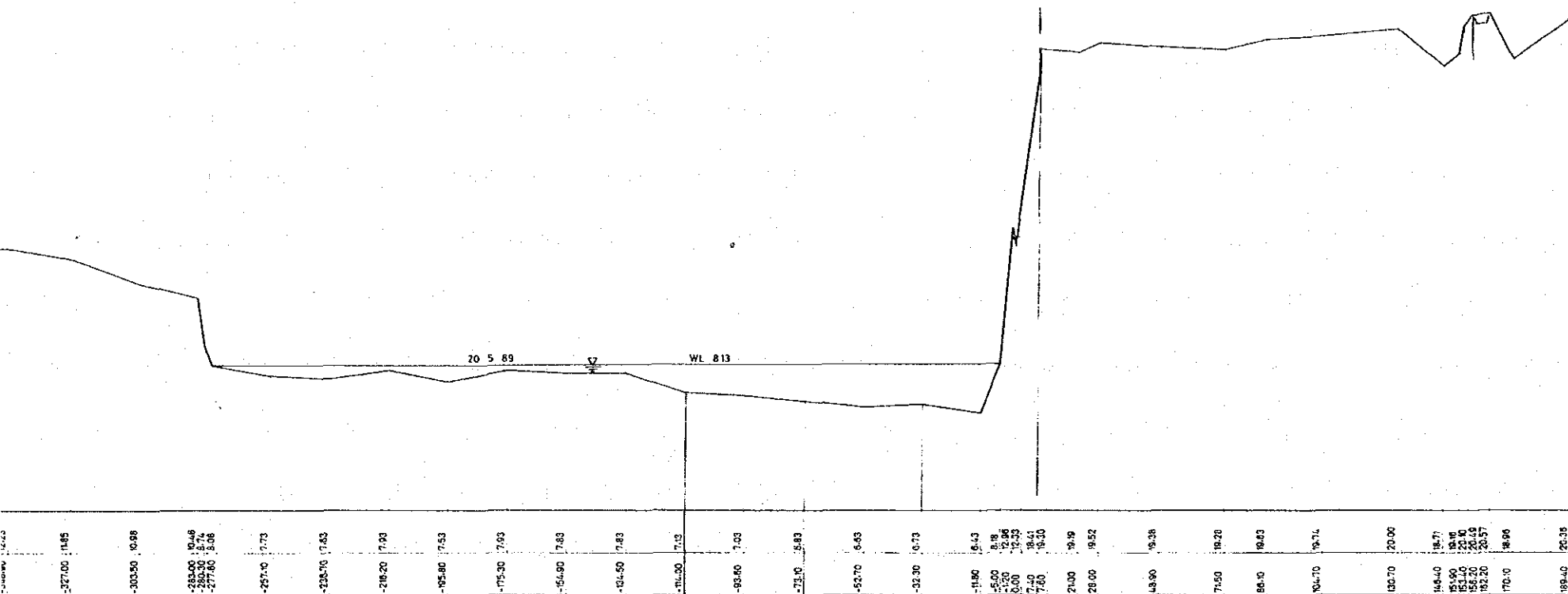
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Engineer)			
SECTION	From TBM No. KL 8 - 62.5 KM To TBM No. KL 8 - 62.7 KM		
SHEET NO.	62/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal - 1 / 1000		Vertical - 1 / 100



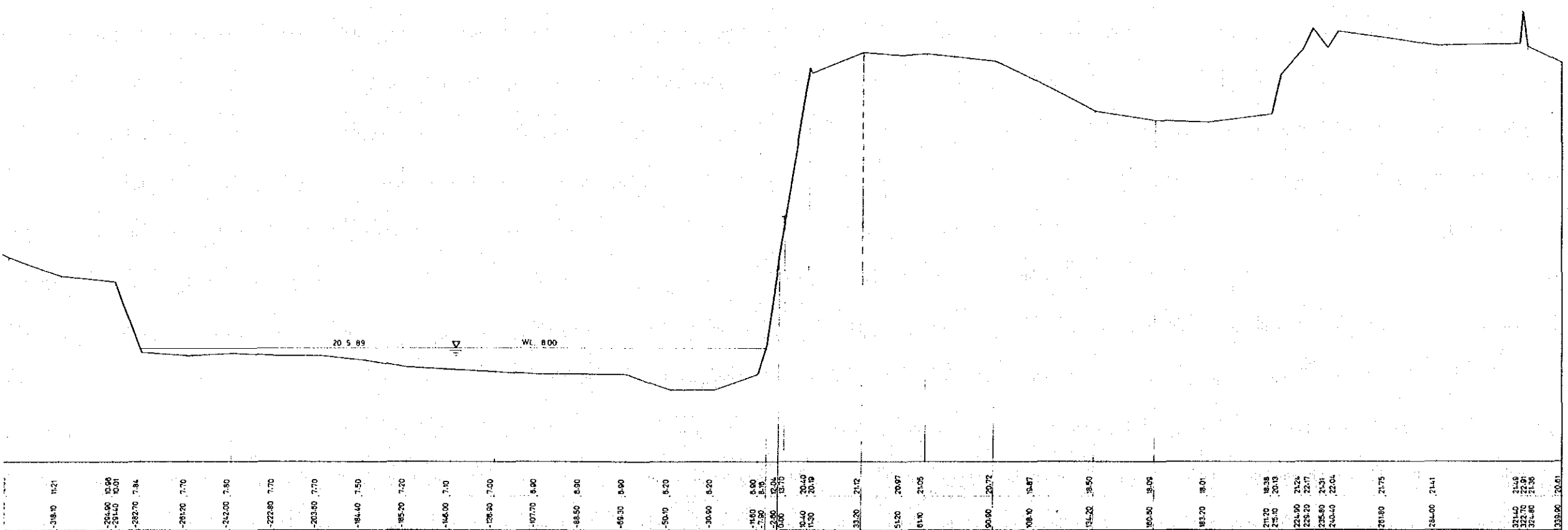
CROSS SECTION AT CH. 62.9 KM



CROSS SECTION AT CH. 63.1 KM



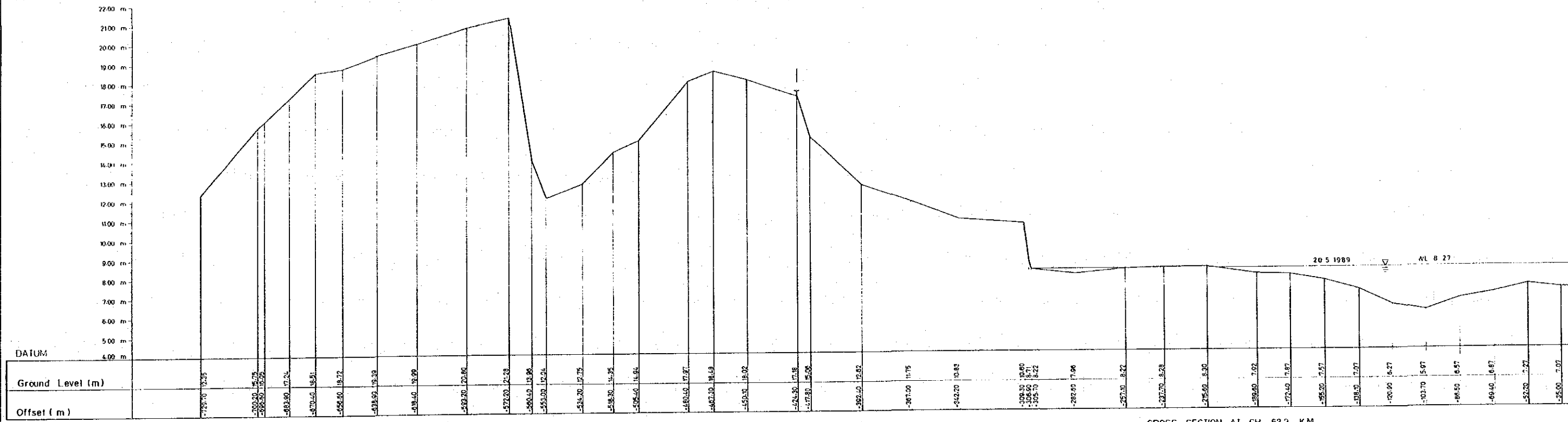
CROSS SECTION AT CH. 62.9 KM



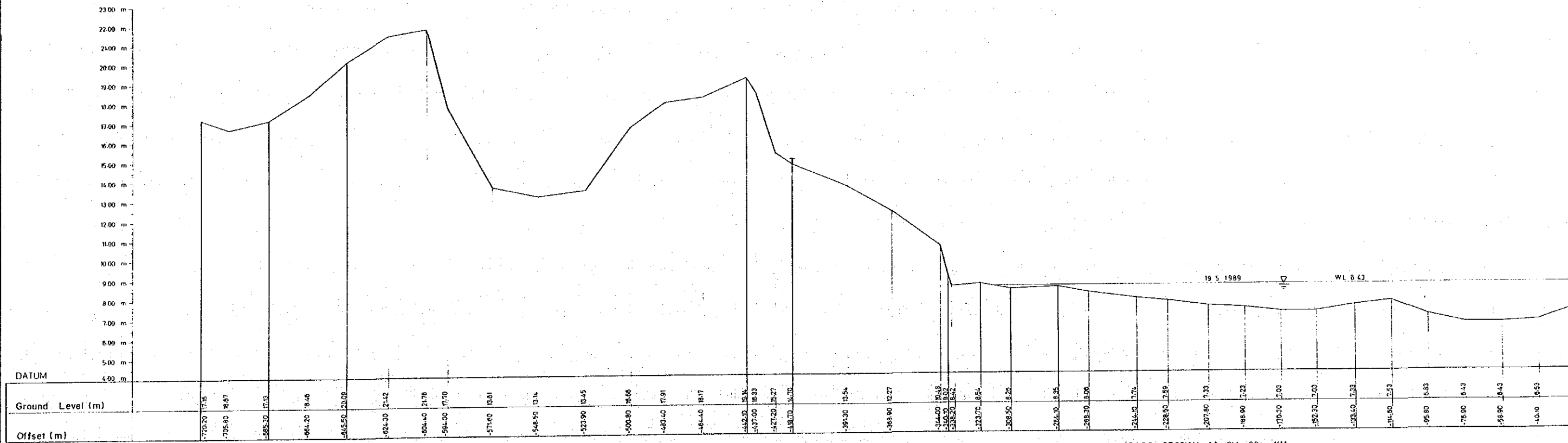
CROSS SECTION AT CH. 63.1 KM

- REMARK:
- HOUSE
 - ELEV.
 - RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

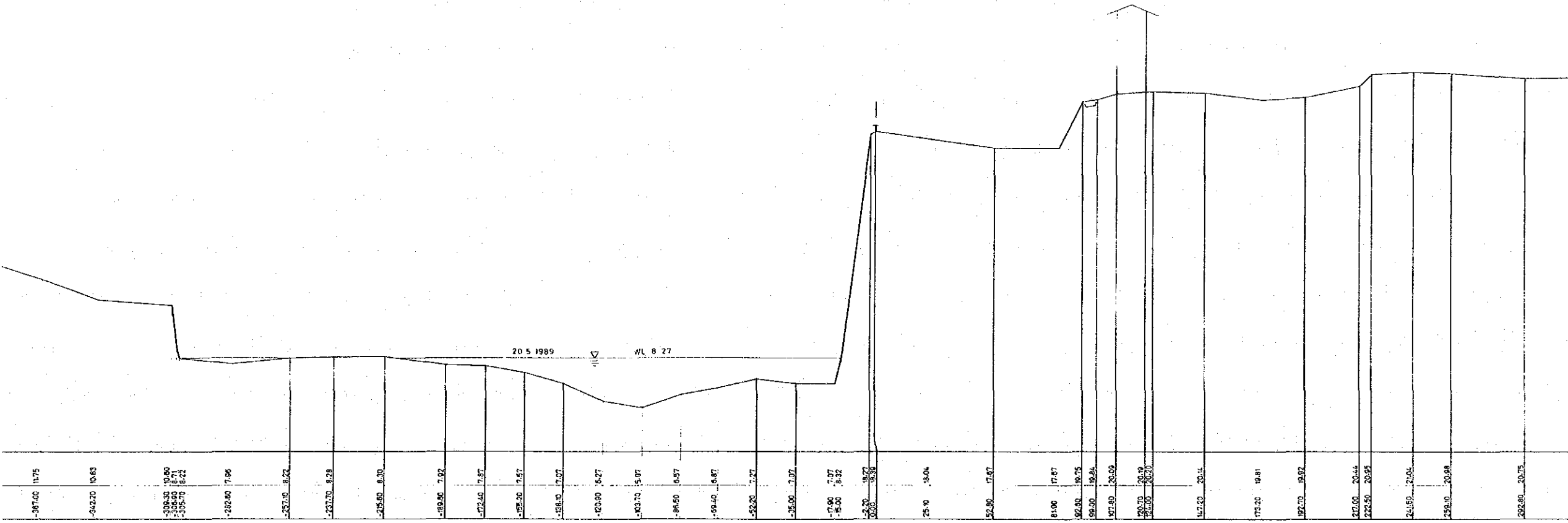
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SON- BHD. (Consulting Surveyors)			
SECTION	From I.B.M. NO. KL 8-62.9 KM to I.B.M. NO. KL 8-63.1 KM	DATE SURVEYED	MAY 1989
SHEET NO.	63/108	SCALE	Horizontal : 1 / 1,000 Vertical : 1 / 100



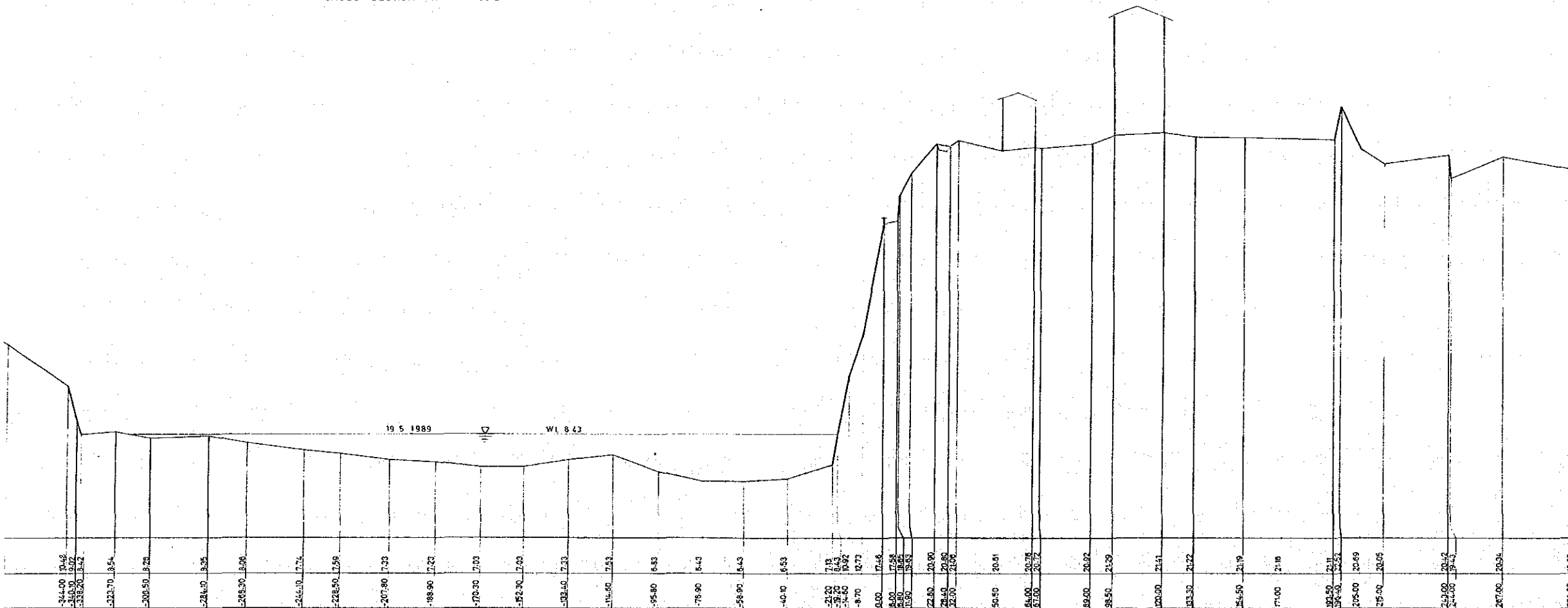
CROSS SECTION AT CH. 63.2 KM



CROSS SECTION AT CH. 63.4 KM



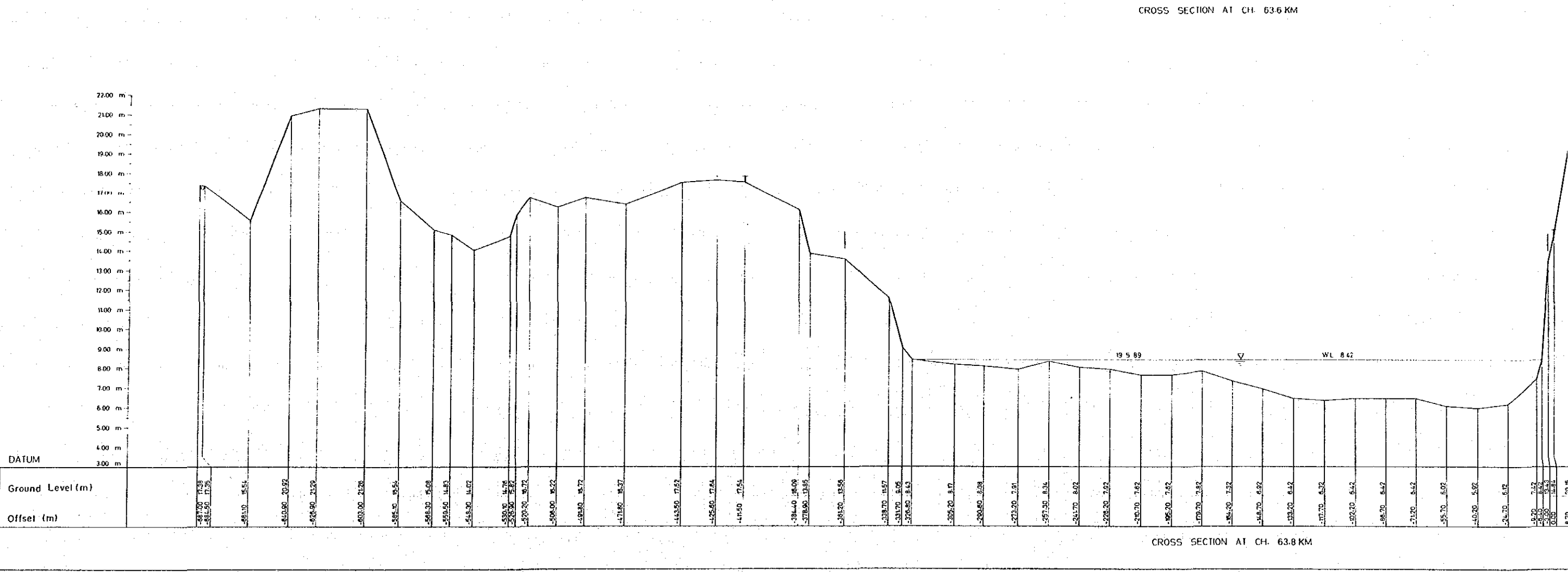
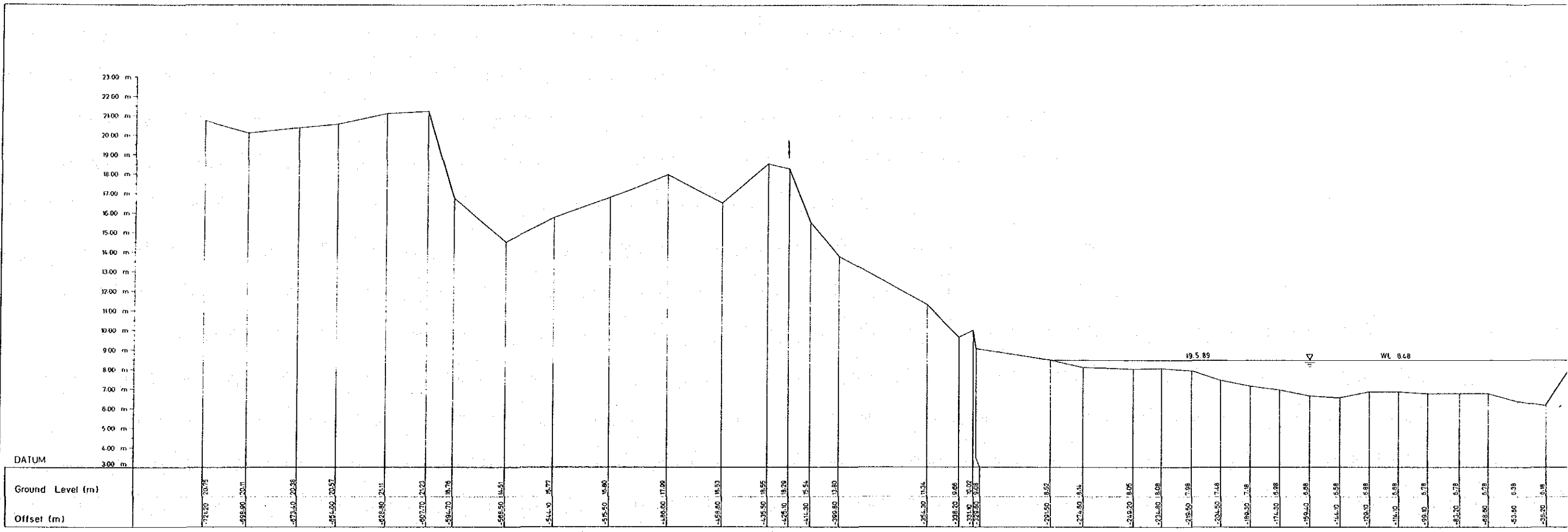
CROSS SECTION AT CH. 63.2 KM

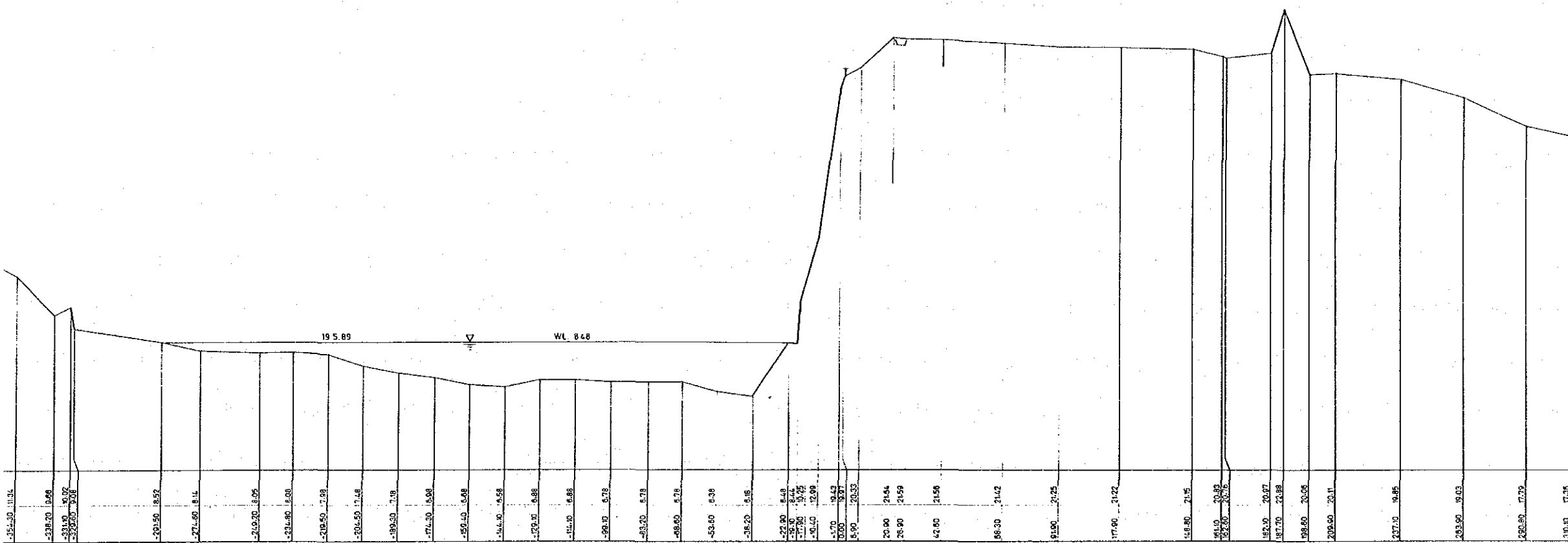


CROSS SECTION AT CH. 63.4 KM

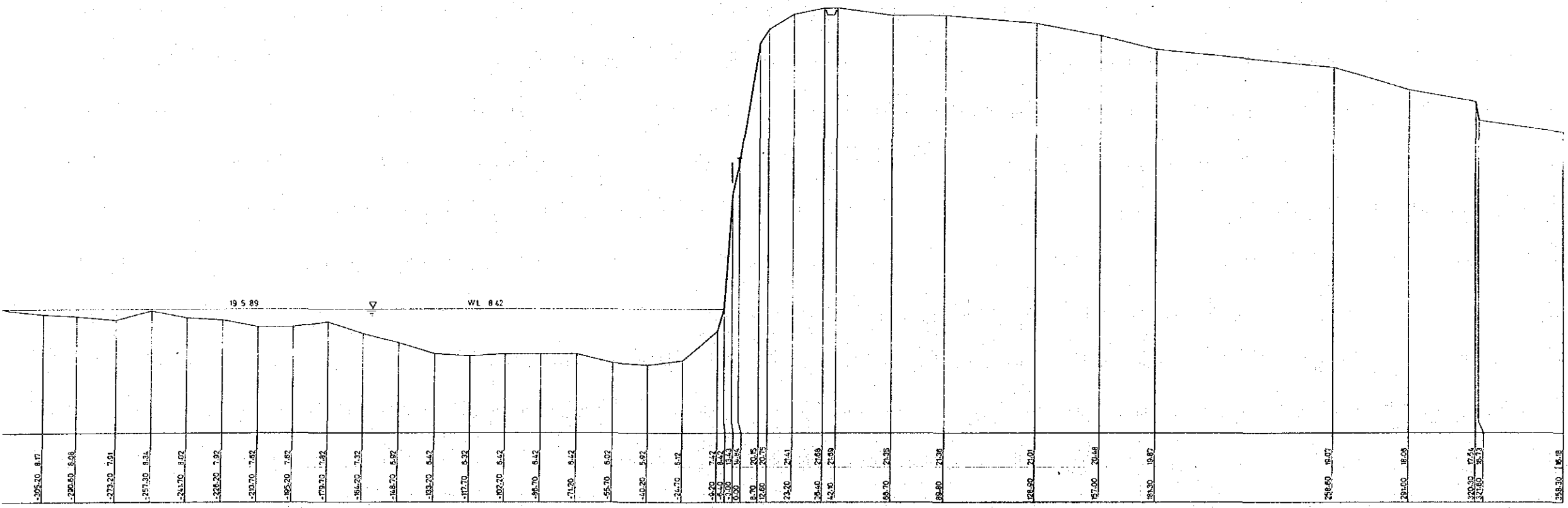
- REMARKS
- ↑ HOUSE
 - I IBM
 - | RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION:	From IBM NO KL 8 - 63.2 KM To IBM 110 KL 8 - 63.4 KM		
DRAWN TO:	647108	DATE SURVEYED:	17/11/88
SCALE:	Horizontal: 1 / 1,000	Vertical:	1 / 100





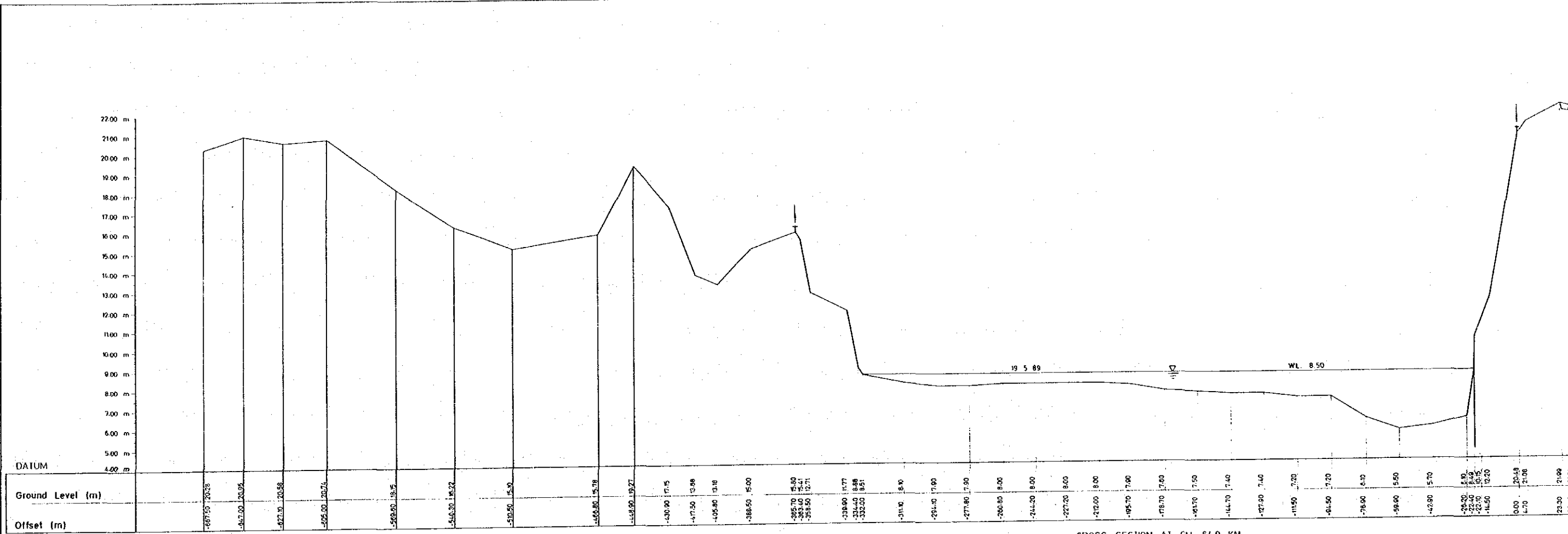
CROSS SECTION AT CH. 63.6 KM



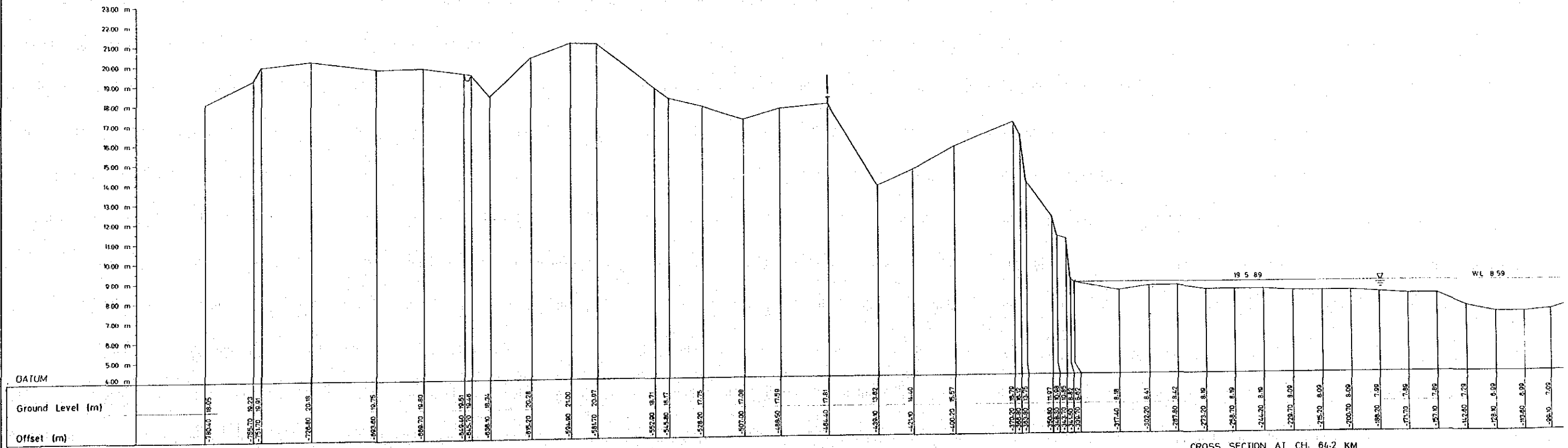
CROSS SECTION AT CH. 63.8 KM

- REMARKS
- ↑ HOUSE
 - T TBM
 - | RIVER WIDTH
 - ~ ROAD or PATH
 - O.C.S. OLD CROSS SECTION

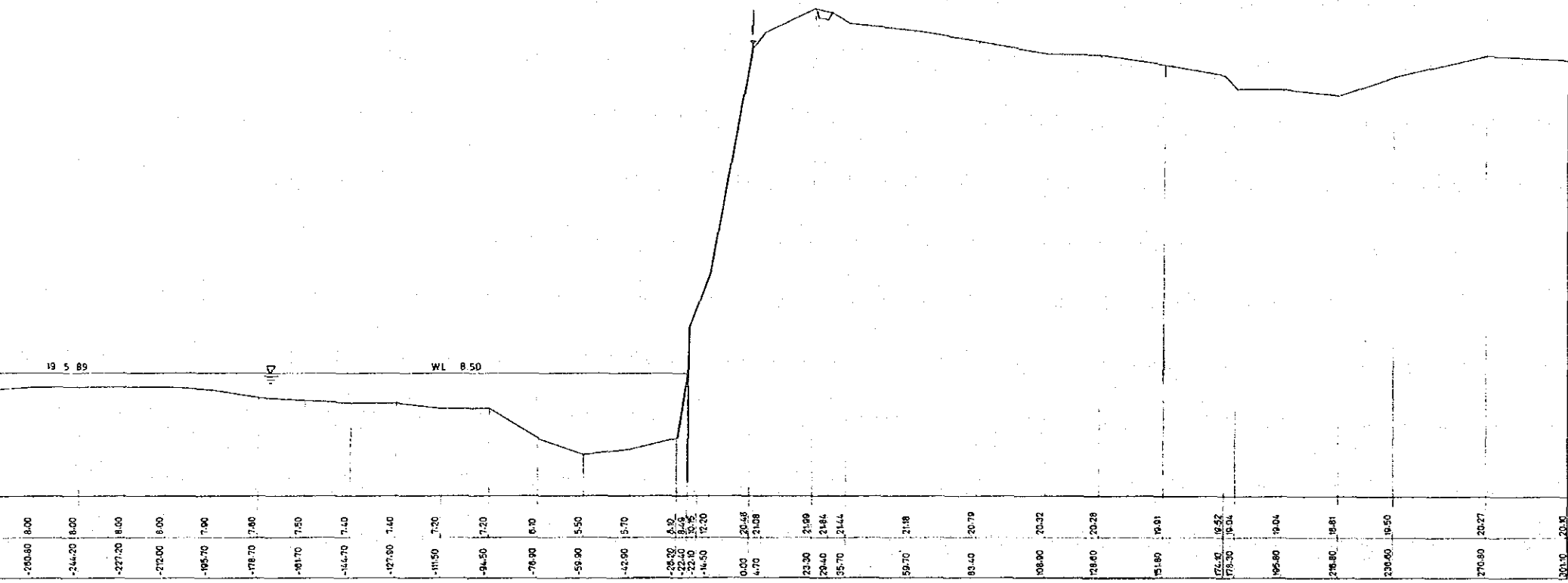
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION	From TBM NO. KL 8 - 63.6 KM To TBM NO. KL 8 - 63.8 KM		
SHEET NO.	65/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000		Vertical : 1 / 100



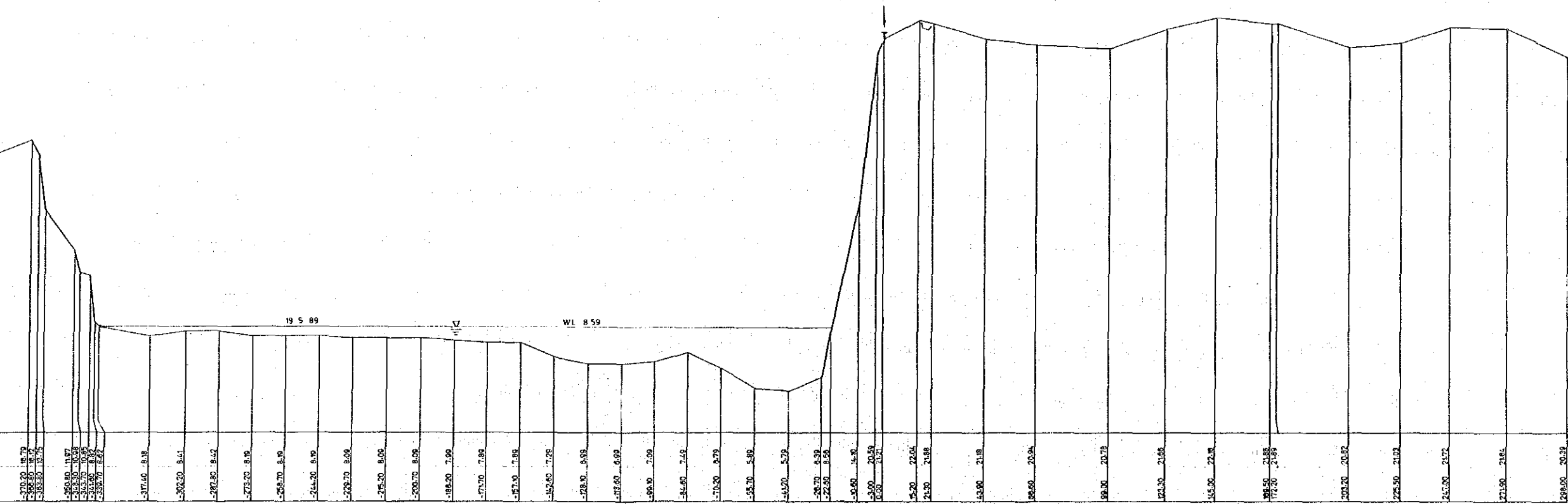
CROSS SECTION AT CH. 64.0 KM



CROSS SECTION AT CH. 64.2 KM



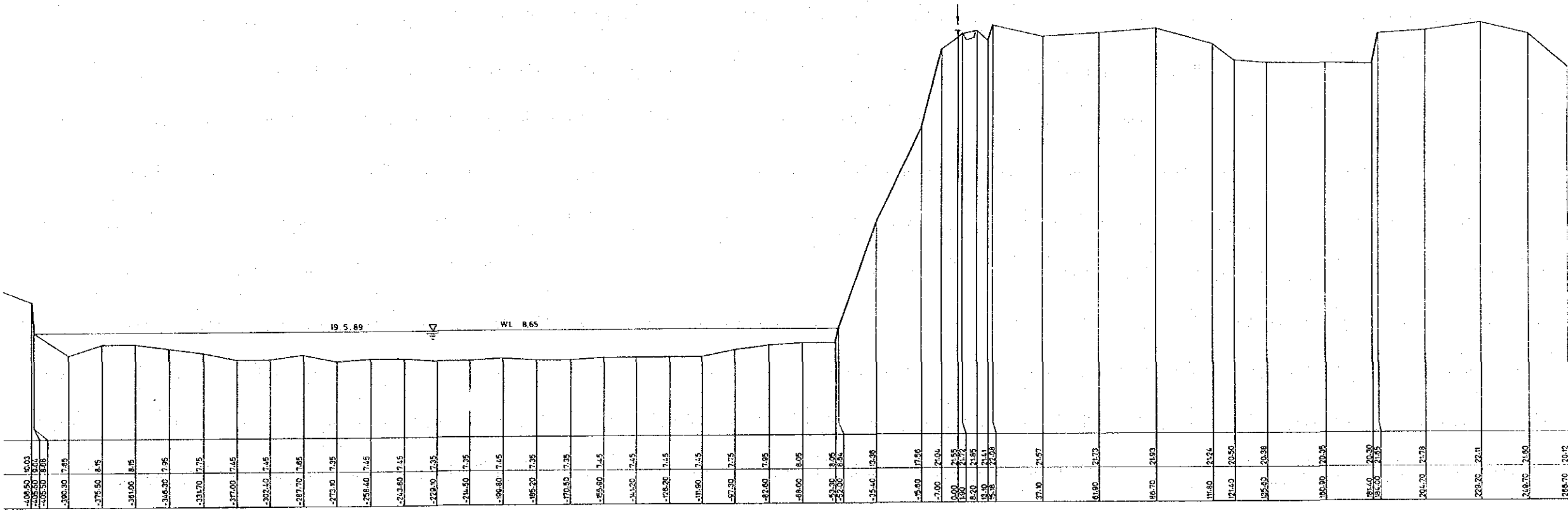
CROSS SECTION AT CH. 64.0 KM



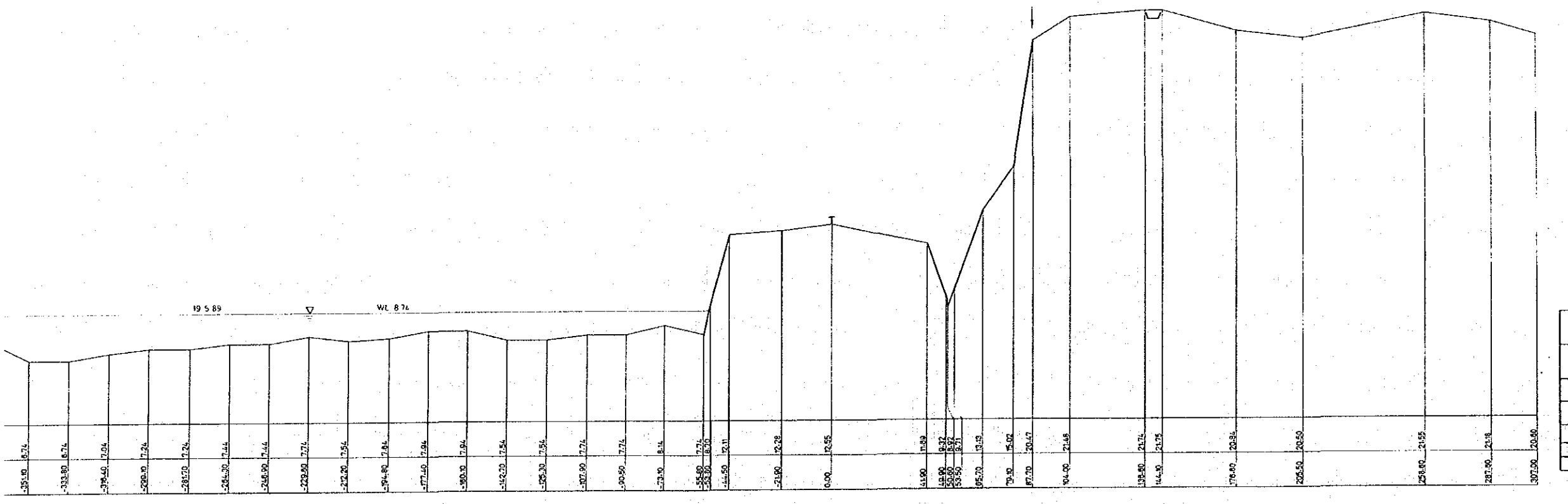
CROSS SECTION AT CH. 64.2 KM

- REMARKS
- ↑ HOUSE
 - I TBM
 - | RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNDAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN BHD. (Consulting Engineers)			
SECTION	From TBM NO. KL 8-64.0 KM To TBM NO. KL 8-64.2 KM		
SHEET NO.	66/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000	Vertical :	1 / 100



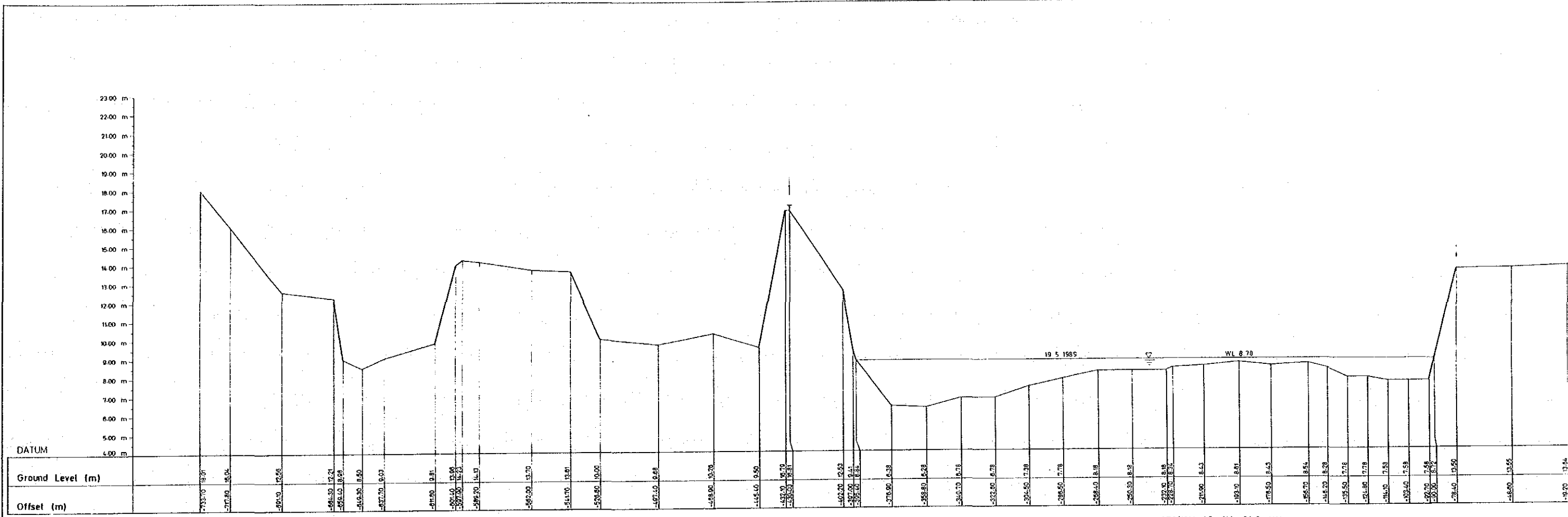
CROSS SECTION AT CH. 64.4 KM



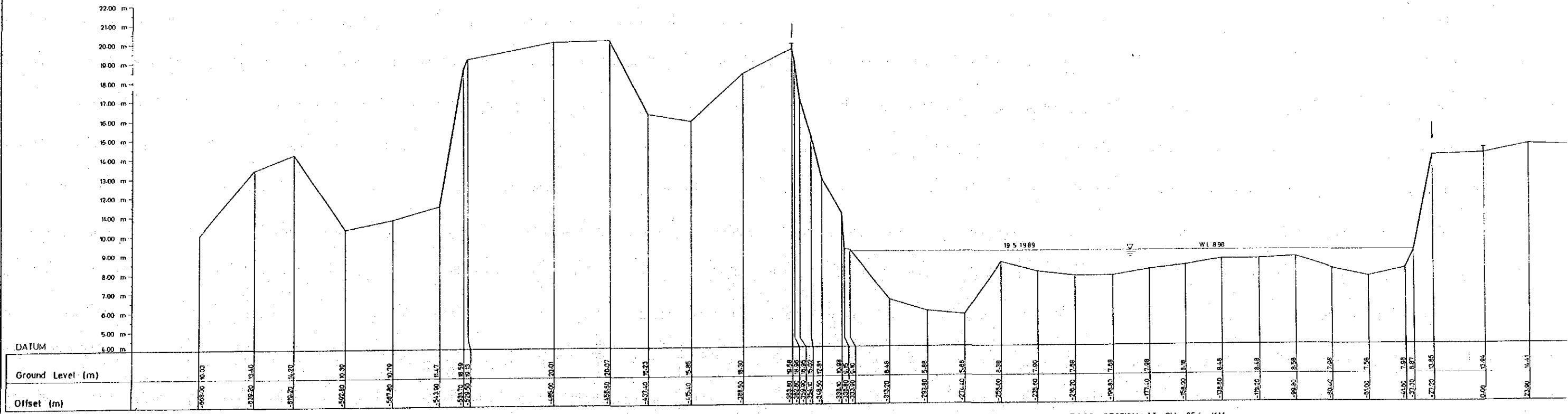
CROSS SECTION AT CH. 64.6 KM

- REMARKS
- 🏠 HOUSE
 - T T.B.M.
 - | RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

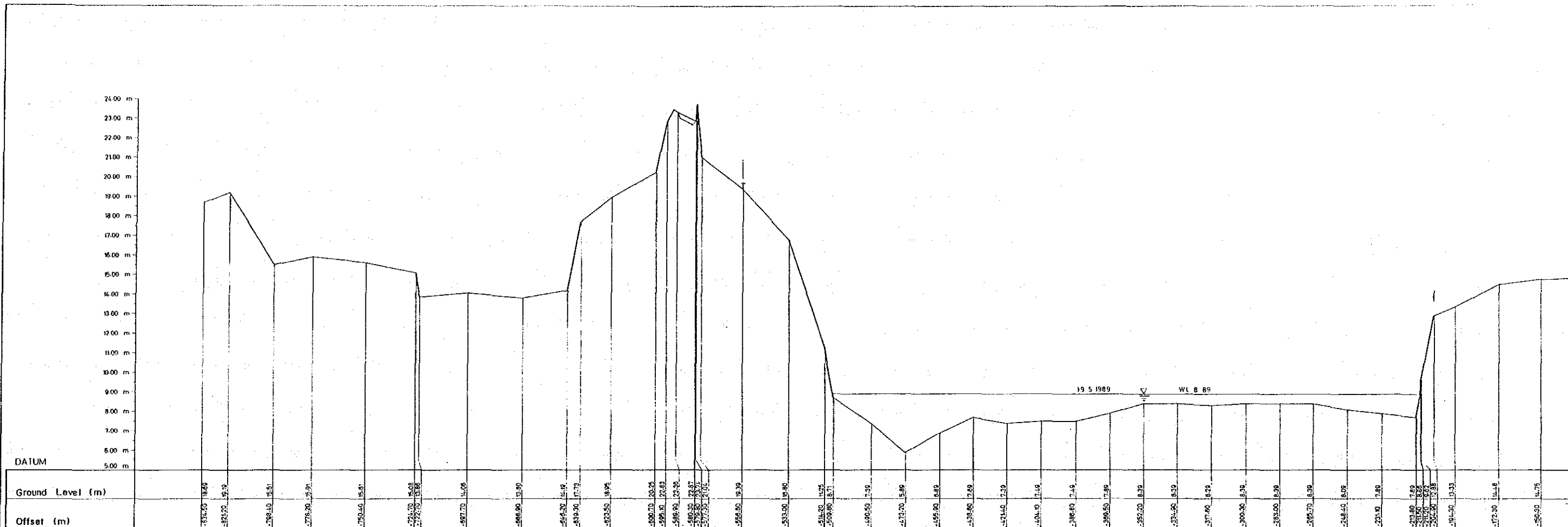
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SON. BHD. (Consulting Surveyors)			
SECTION	From TBM NO. KL 8-64.4 KM To TBM NO. KL 8-64.6 KM		
SHEET NO.	67/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000		Vertical : 1 / 100



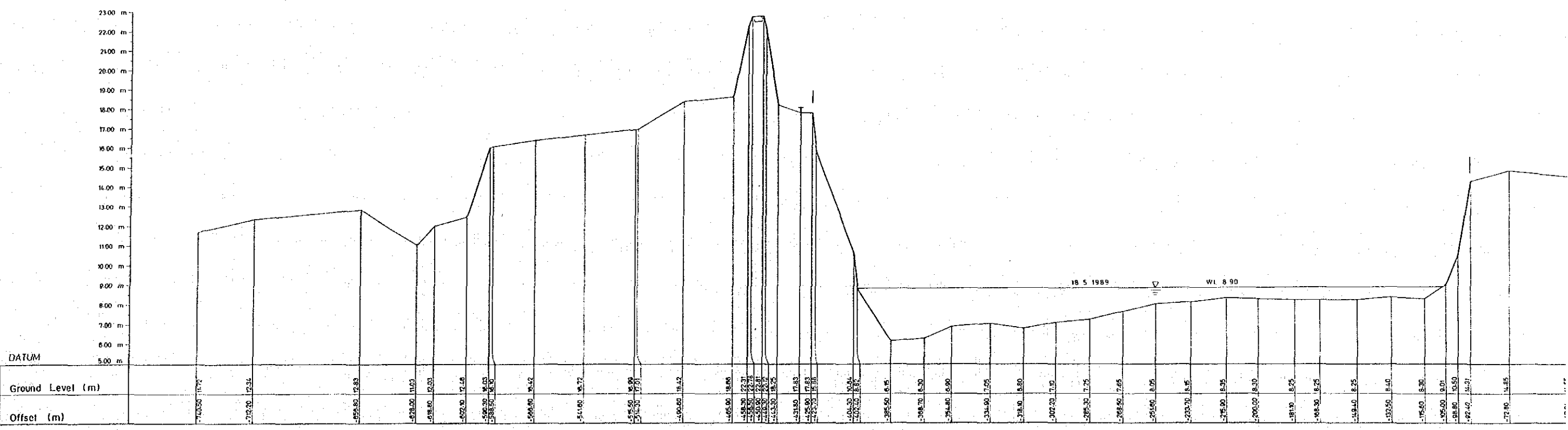
CROSS SECTION AT CH. 64.8 KM



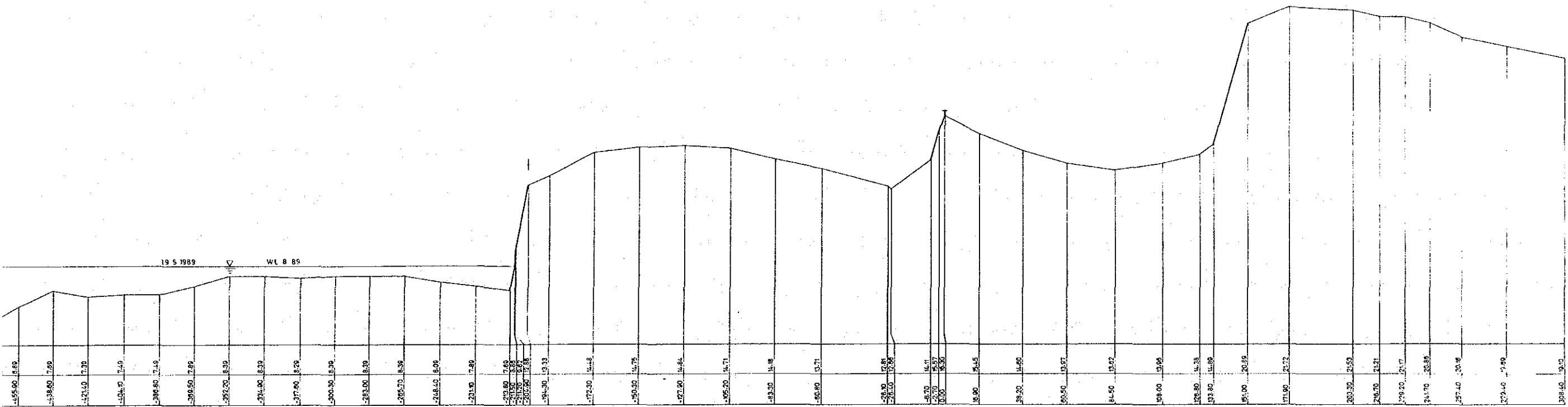
CROSS SECTION AT CH. 65.6 KM



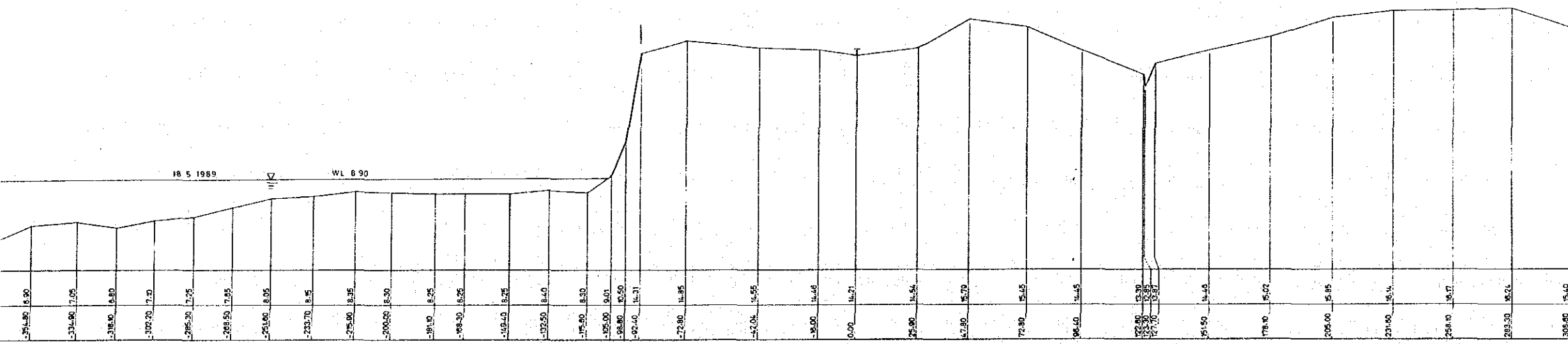
CROSS SECTION AT CH. 65.1 KM



CROSS SECTION AT CH. 65.3 KM



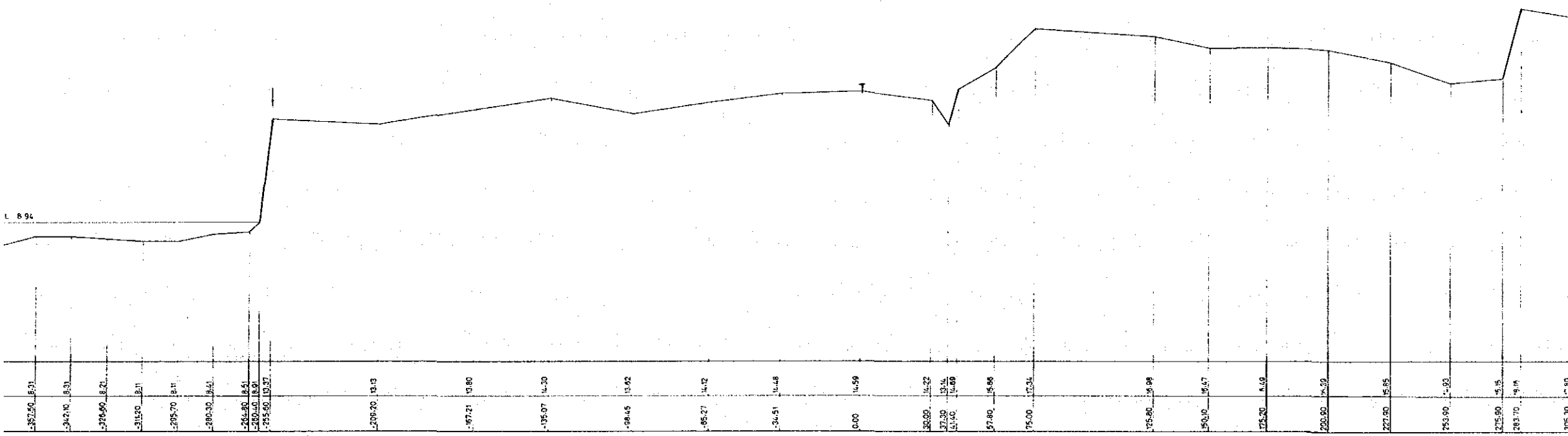
CROSS SECTION AT CH. 65.1 KM



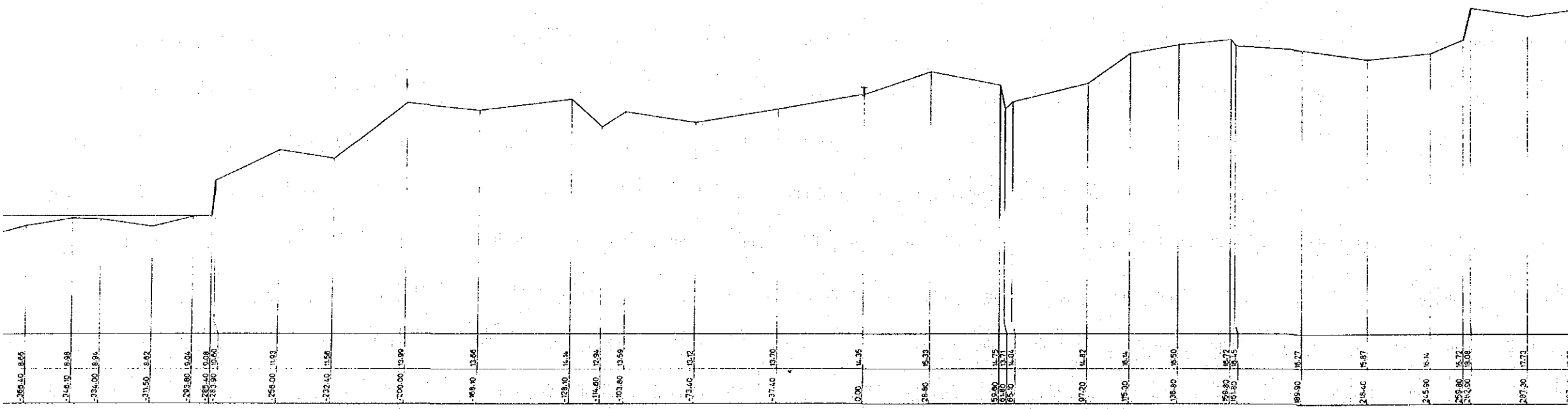
CROSS SECTION AT CH. 65.3 KM

- REMARKS
- ⏏ HOUSE
 - | T.B.M.
 - | RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION		
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN		
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)		
KAJIAN KOKUSAI SON. BHD. (Consulting Surveyors)		
SECTION	From TBM NO. KL 8 - 65.1 KM To TBM NO. KL 8-65.3 KM	
SHEET NO. 69/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal - 1 / 1,000 Vertical - 1 / 100	



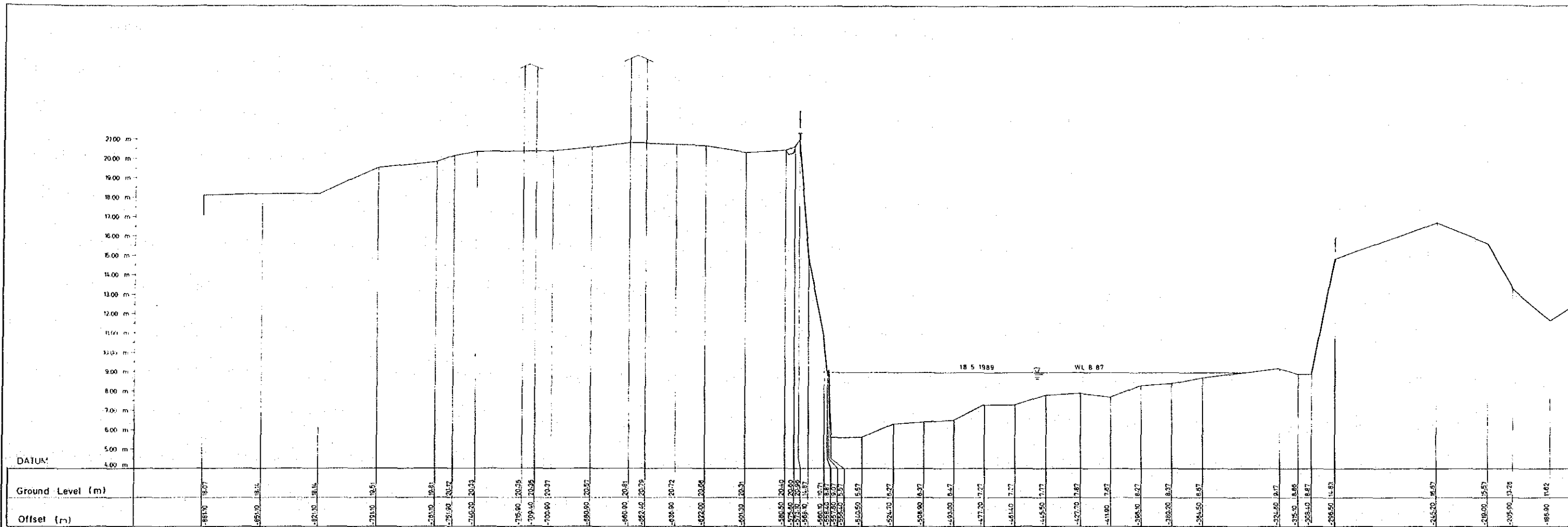
CROSS SECTION AT CH. 65.5 KM



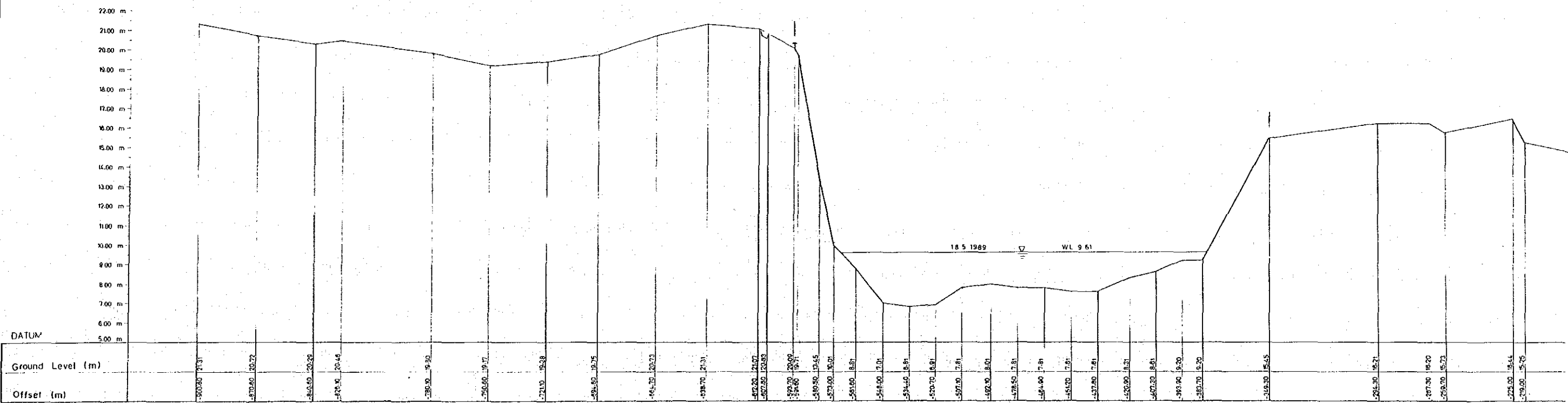
CROSS SECTION AT CH. 65.7 KM

- REMARKS
- 🏠 HOUSE
 - T TBM
 - | RIVER WIDTH
 - ROAD or PATH
 - C.C.S. OLD CROSS SECTION

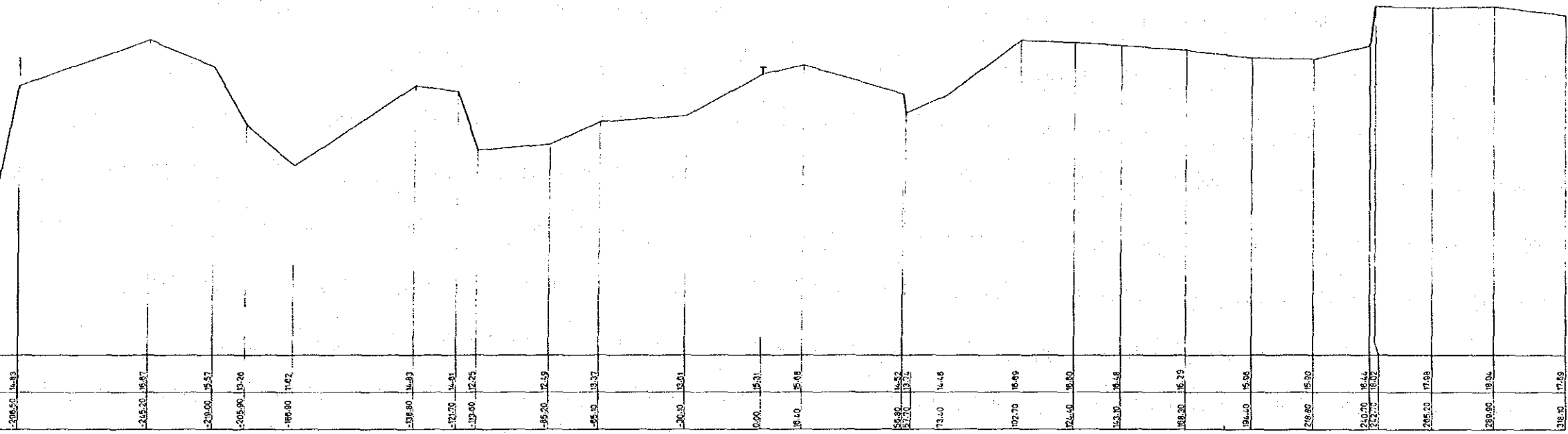
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Engineers)			
SECTION	From TBM NO. XI 8 - 65.5 KM to TBM NO. XI 8 - 65.7 KM		
SHEET NO.	70 / 108	DATE SURVEYED	MAY 1982
SCALE	Horizontal : 1 : 1,000	Vertical	Rev



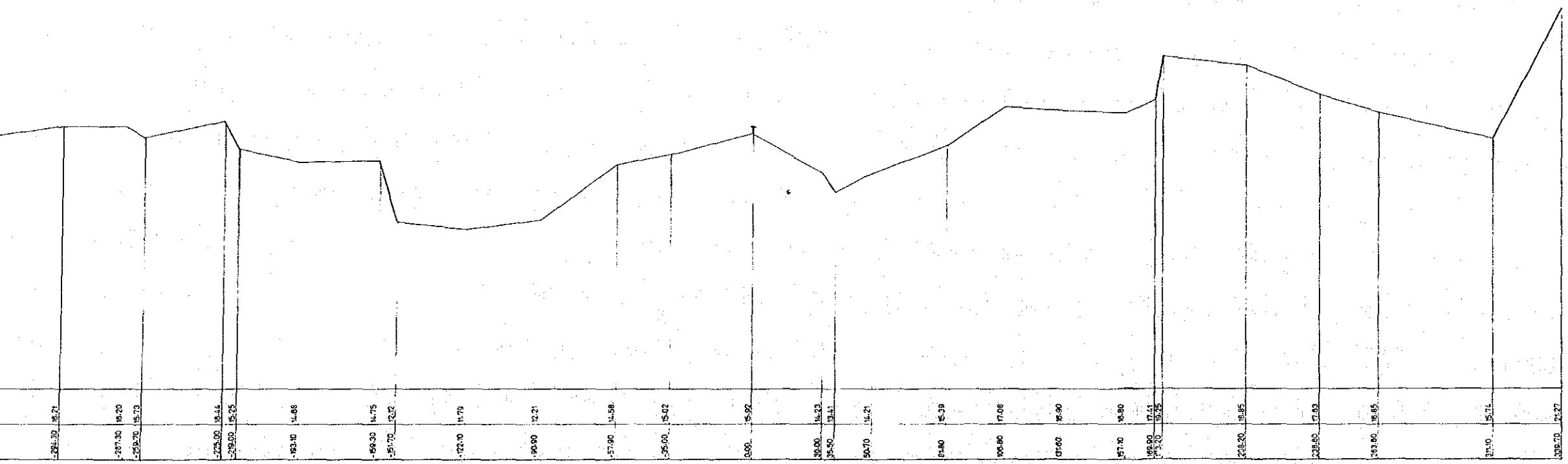
CROSS SECTION AT CH. 65.9 KM



CROSS SECTION AT CH. 66.1 KM



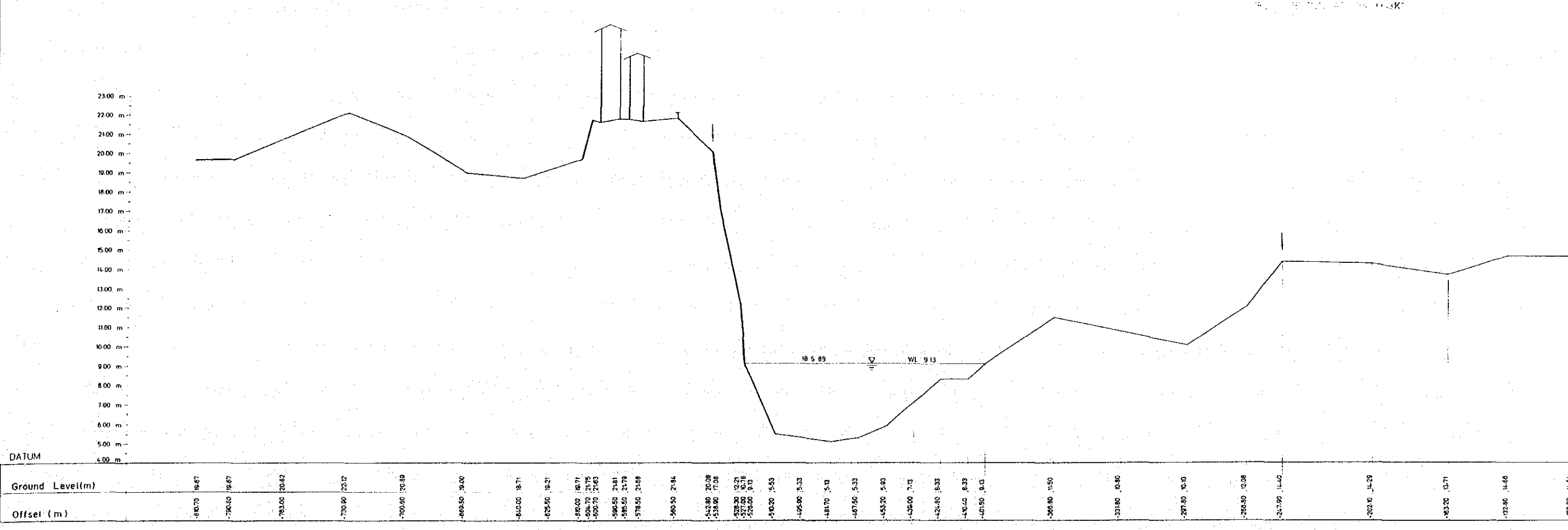
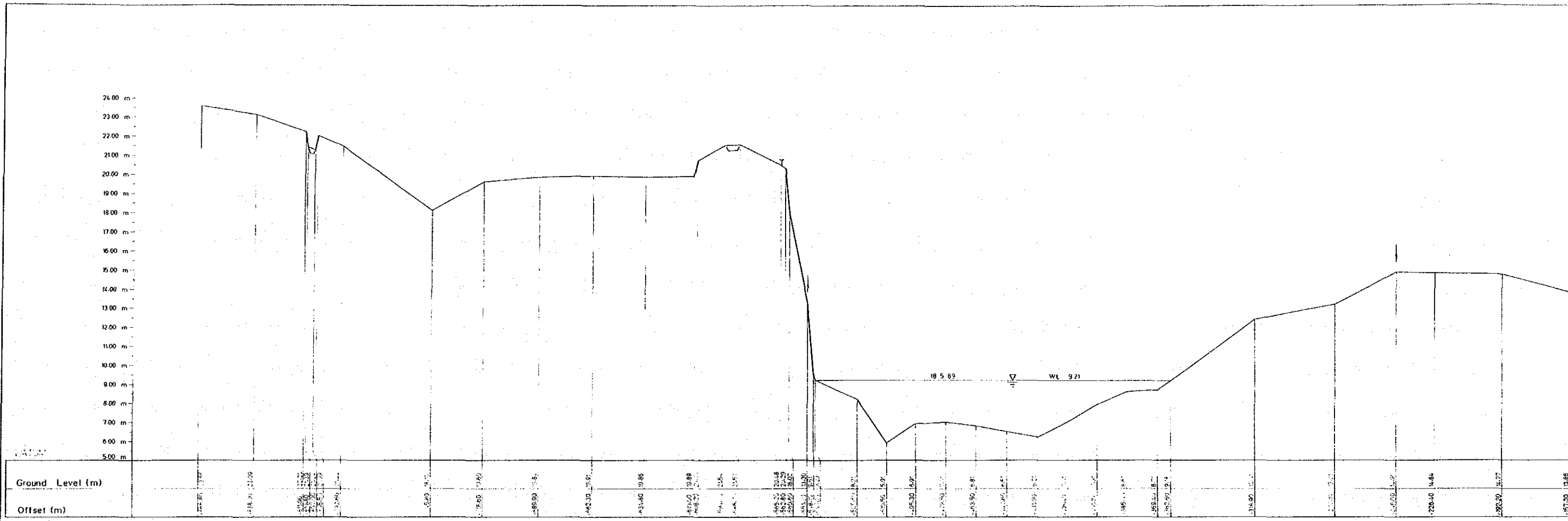
SECTION AT CH. 65.9 KM



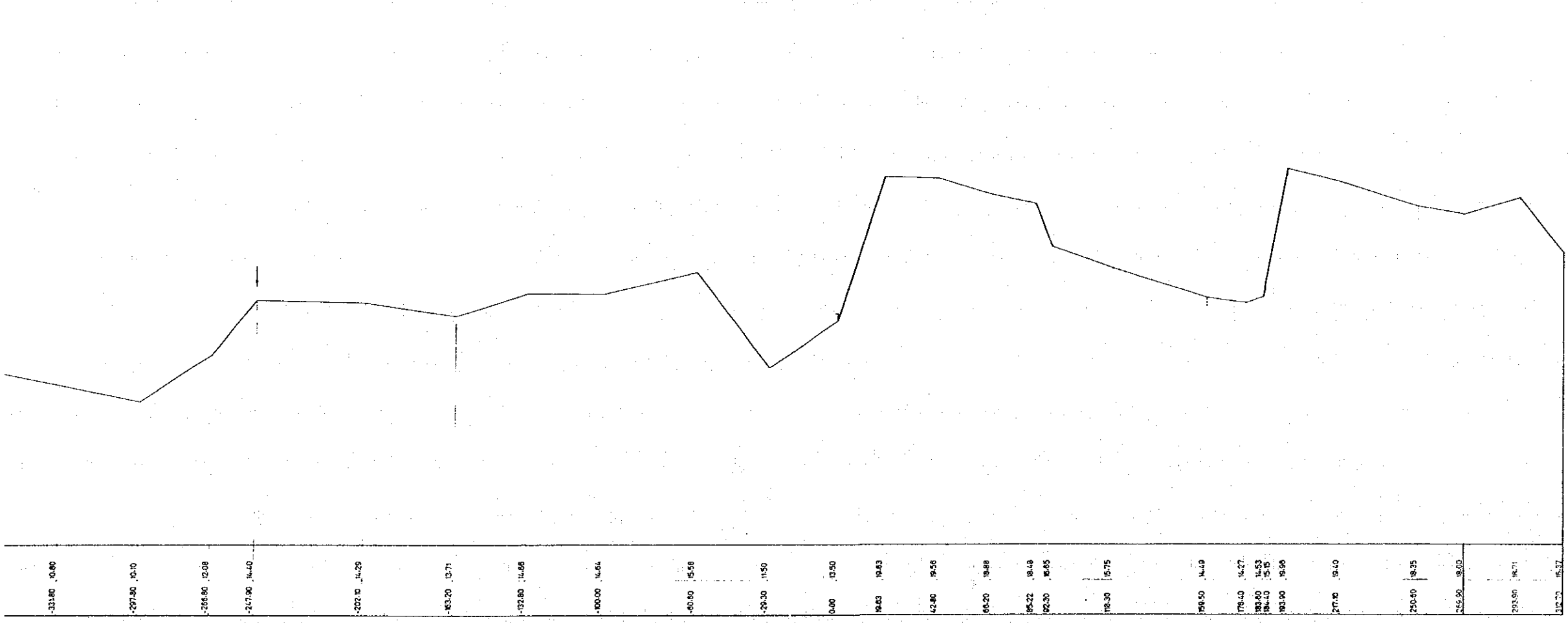
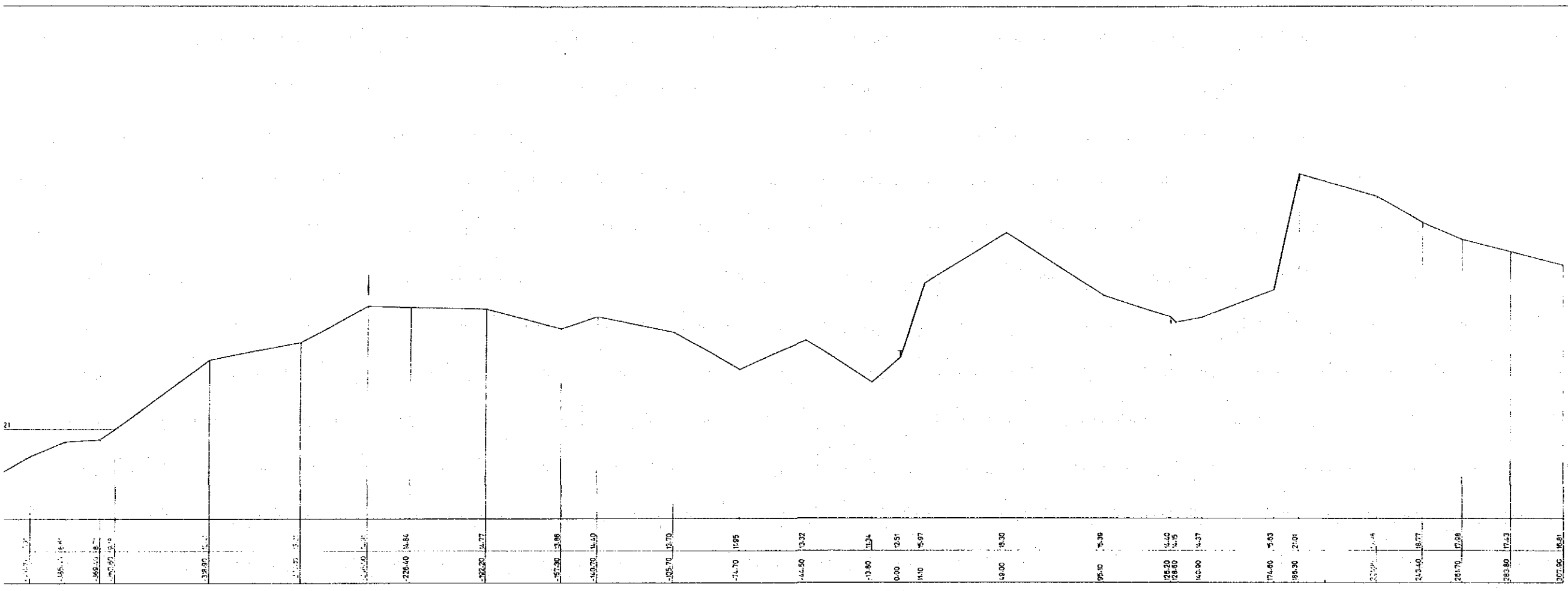
CROSS SECTION AT CH. 66.1 KM

- REMARKS
- ⬆ HOUSE
 - T TANK
 - I RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Konsulting Syarikat)			
SECTION	From TBM NO -1 8-65 9 +M To TBM NO -1 8-66 1 +M		
SHEET NO	71/108	DATE SURVEYED	MA 1289
SCALE	Horizontal : 1 / 1000	Vertical : 1 / 10	



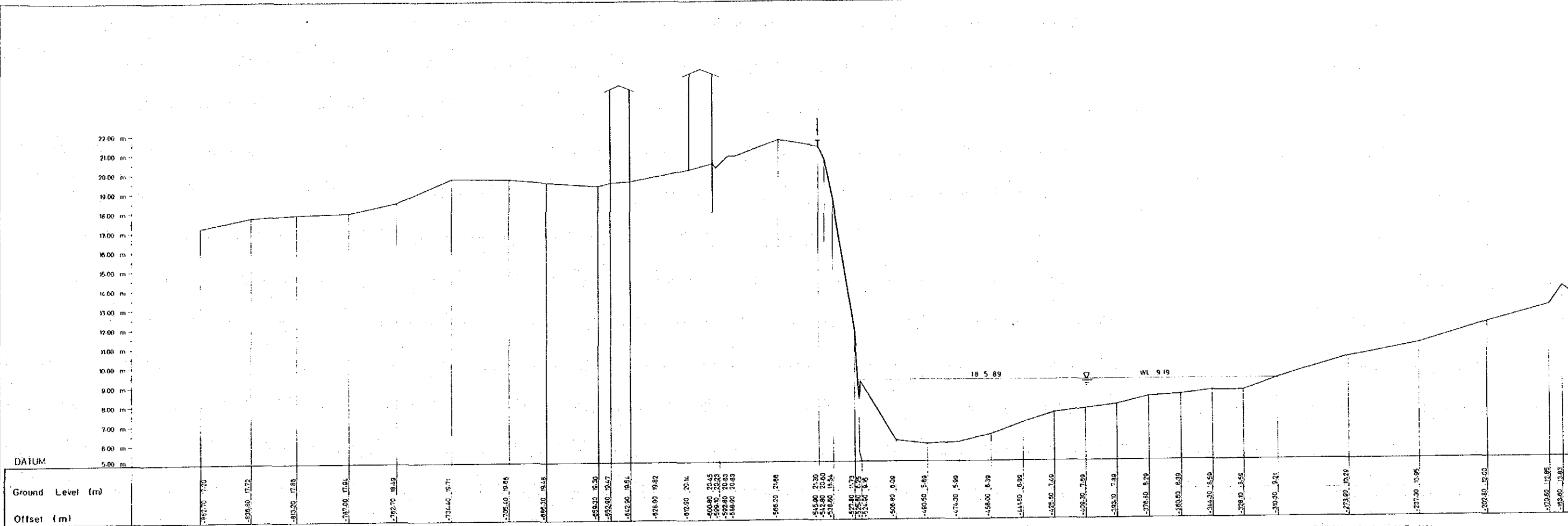
CROSS SECTION AT CH. 66.5 KM



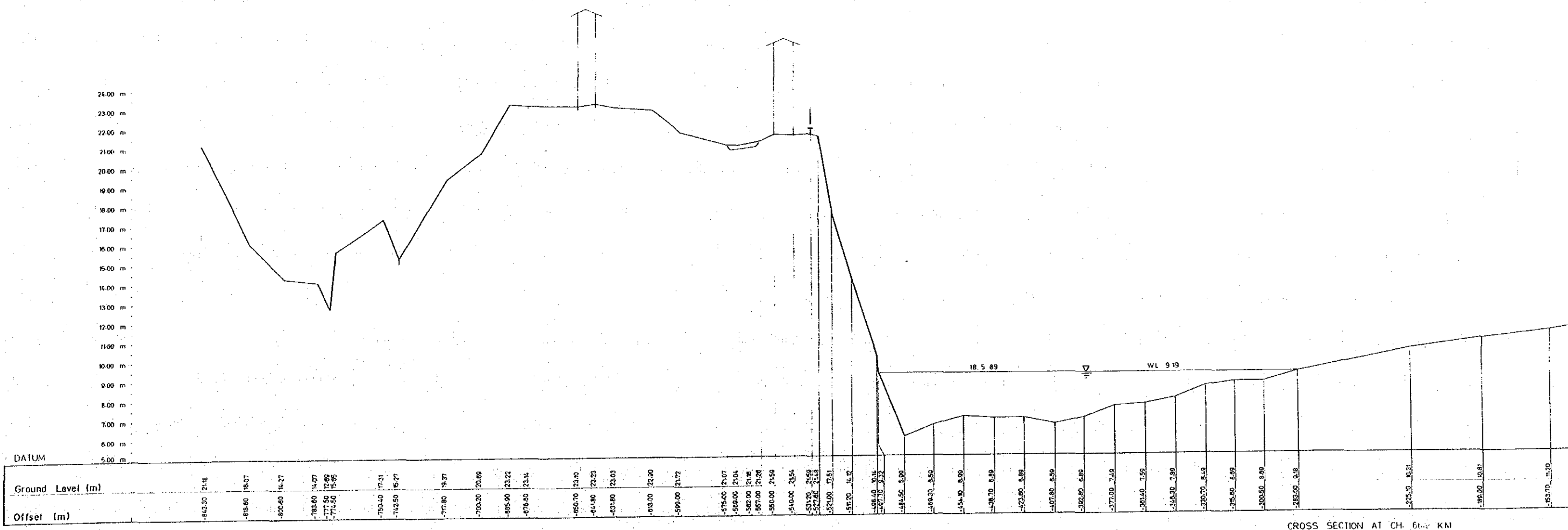
CROSS SECTION AT CH. 66.5 KM

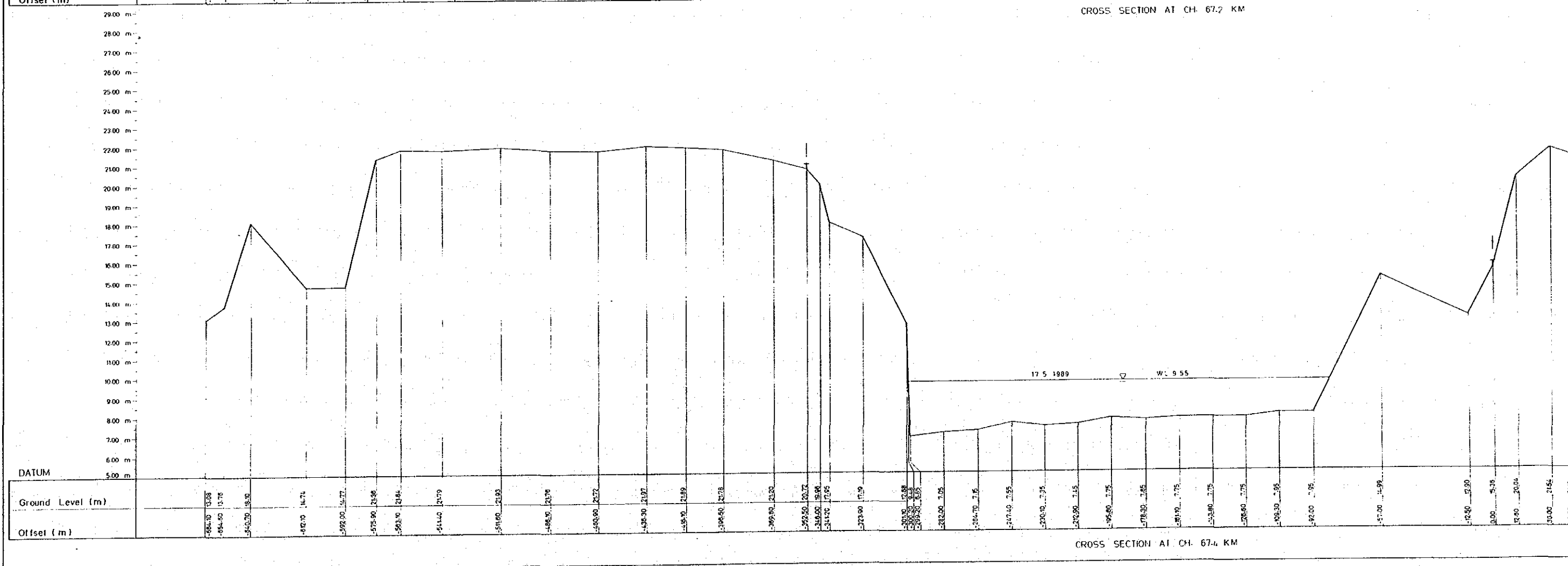
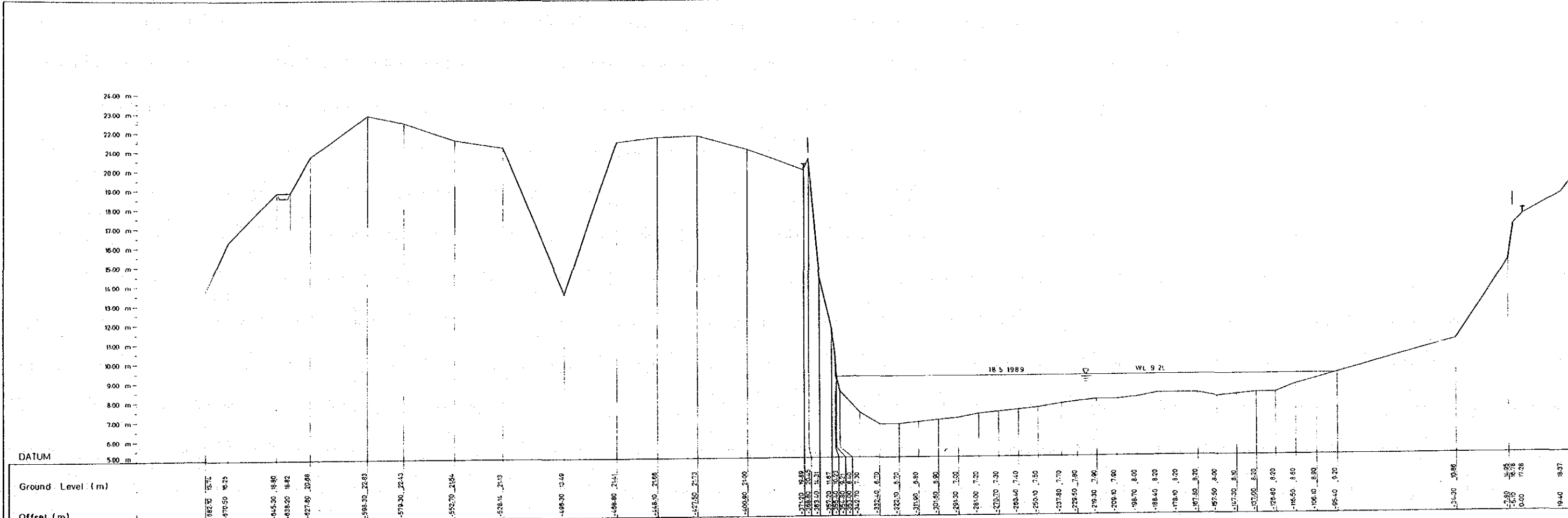
- REMARKS
- ↑ 100FT
 - B.M.
 - R.M.P. WIDTH
 - ROAD & PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. <i>(Consulting Engineers)</i>			
SECTION	From TBM NO. PI 8-66.3 KM To TBM NO. PI 8-66.5 KM		
SHEET NO. 77/108	DATE SURVEYED	MAY 1989	
SCALE	Horizontal: 1 / 1,000	Vertical: 1 / 100	



CROSS SECTION AT CH. 66.7 KM



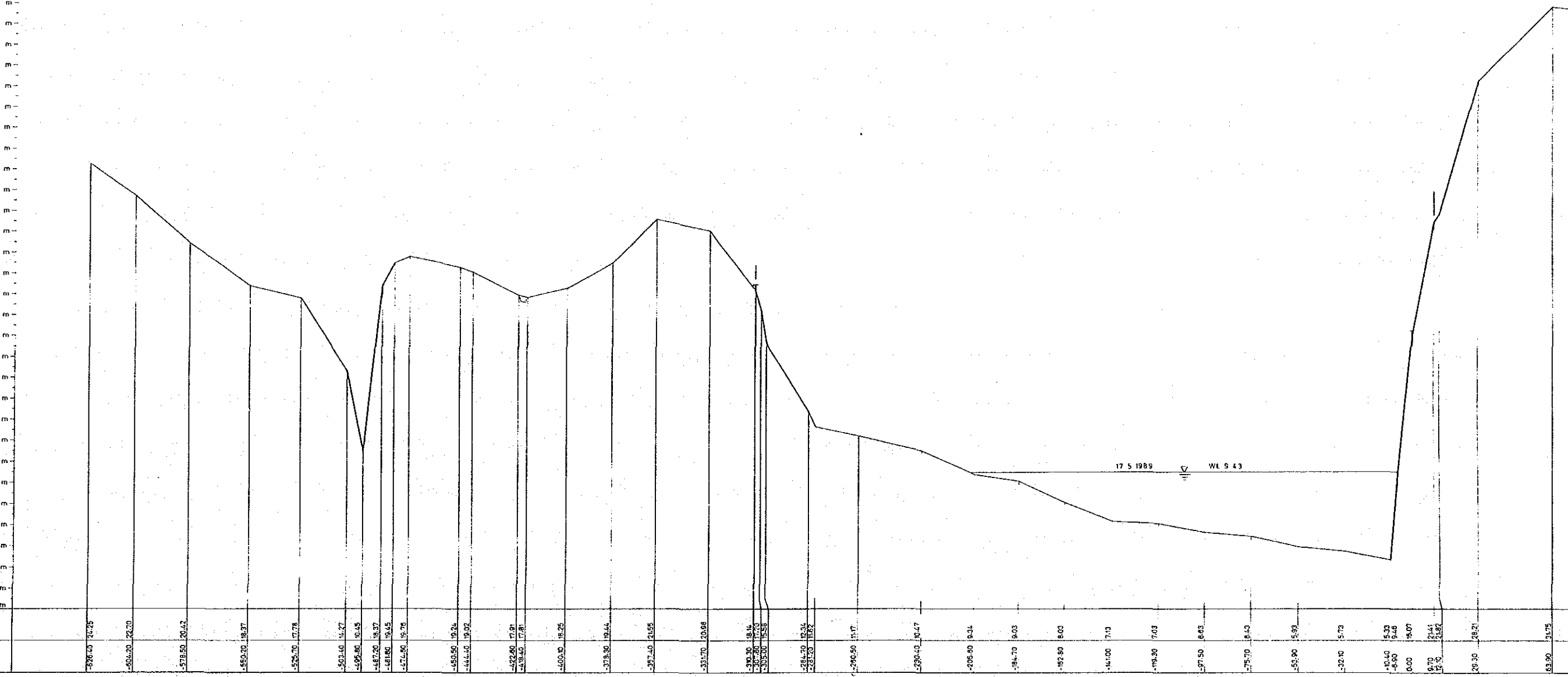


32.00 m
31.00 m
30.00 m
29.00 m
28.00 m
27.00 m
26.00 m
25.00 m
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6.00 m
5.00 m
4.00 m
3.00 m

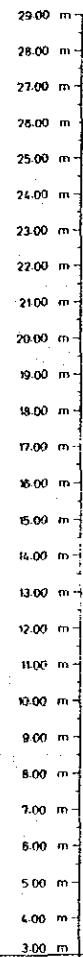
DATUM

Ground Level (m)

Offset (m)



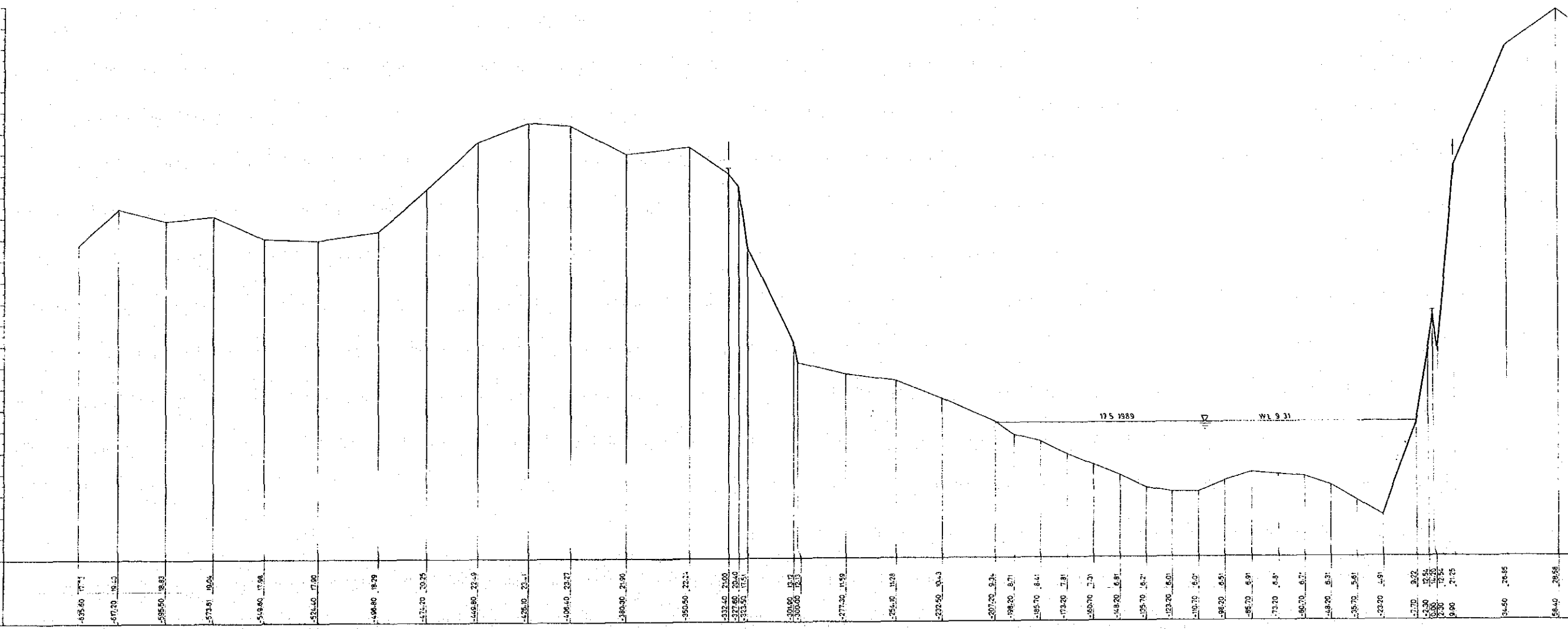
CROSS SECTION AT CH. 67.6 KM



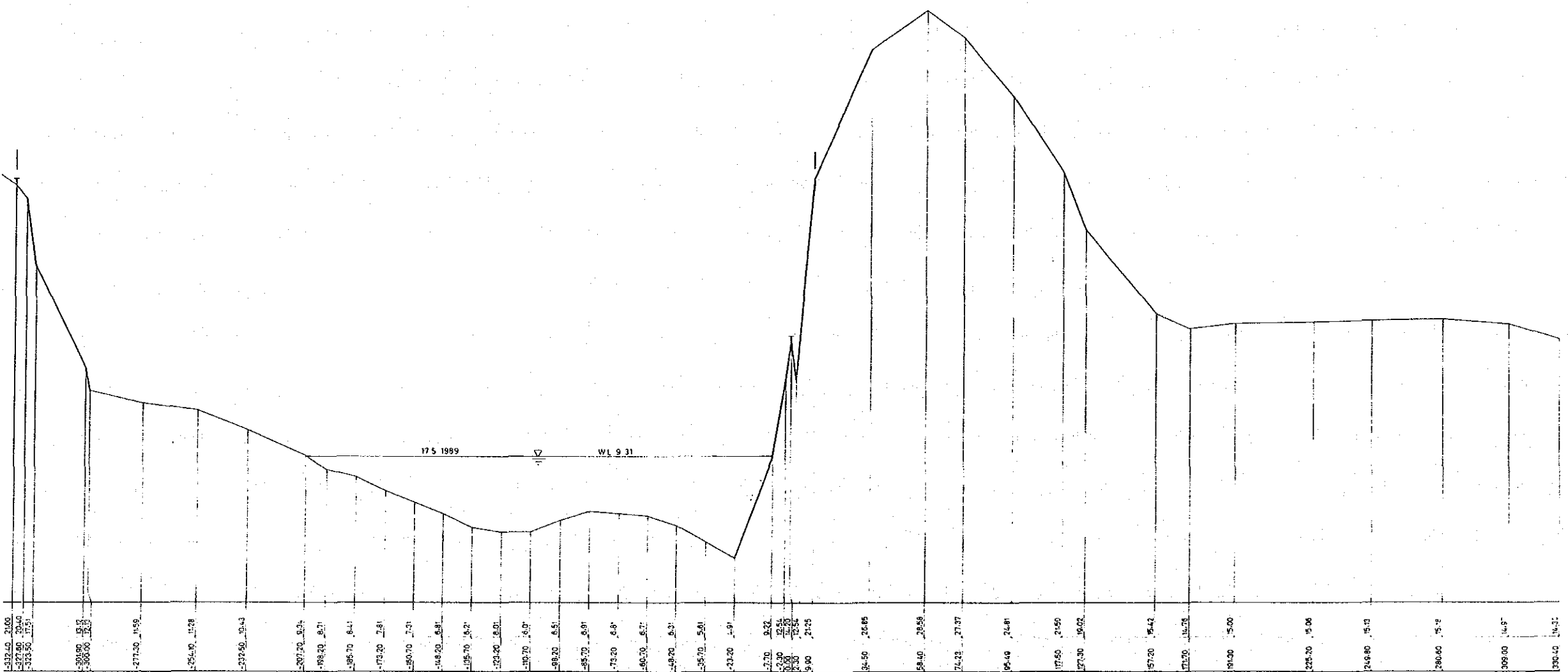
DATUM

Ground Level (m)

Offset (m)



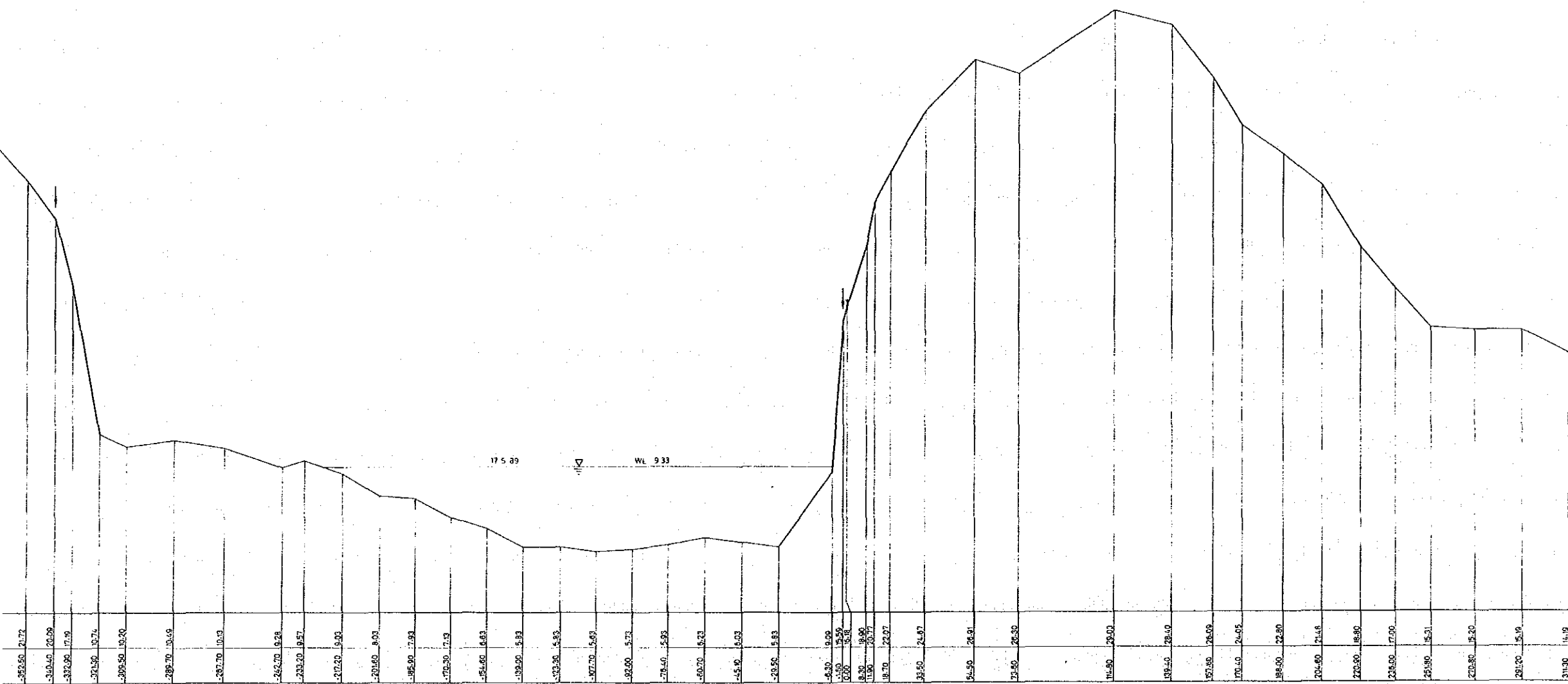
CROSS SECTION AT CH. 67.6 KM



CROSS SECTION AT CH. 67.8 KM

- REMARKS :
- HOUSE
 - T TBM
 - RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION	
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN	
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)	
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyor)	
From TBM NO. K: 8-67.8 KM	To TBM NO. K: --- KM
76/108	
Scale: 1 / 1,000	Vertical: 1 / 100



CROSS SECTION AT CH. 68.0 KM

- REMARKS :
- ↑ HOUSE
 - | IBM
 - | RIVER WIDTH
 - ROAD or PATH
 - J.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. <i>(Consulting Survey)</i>			
SECTION	From TBM NO. KL B-68.0 KM	To TBM NO. KL	KM
SHEET NO.	77/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 : 1,000		Vertical : 1 : 100

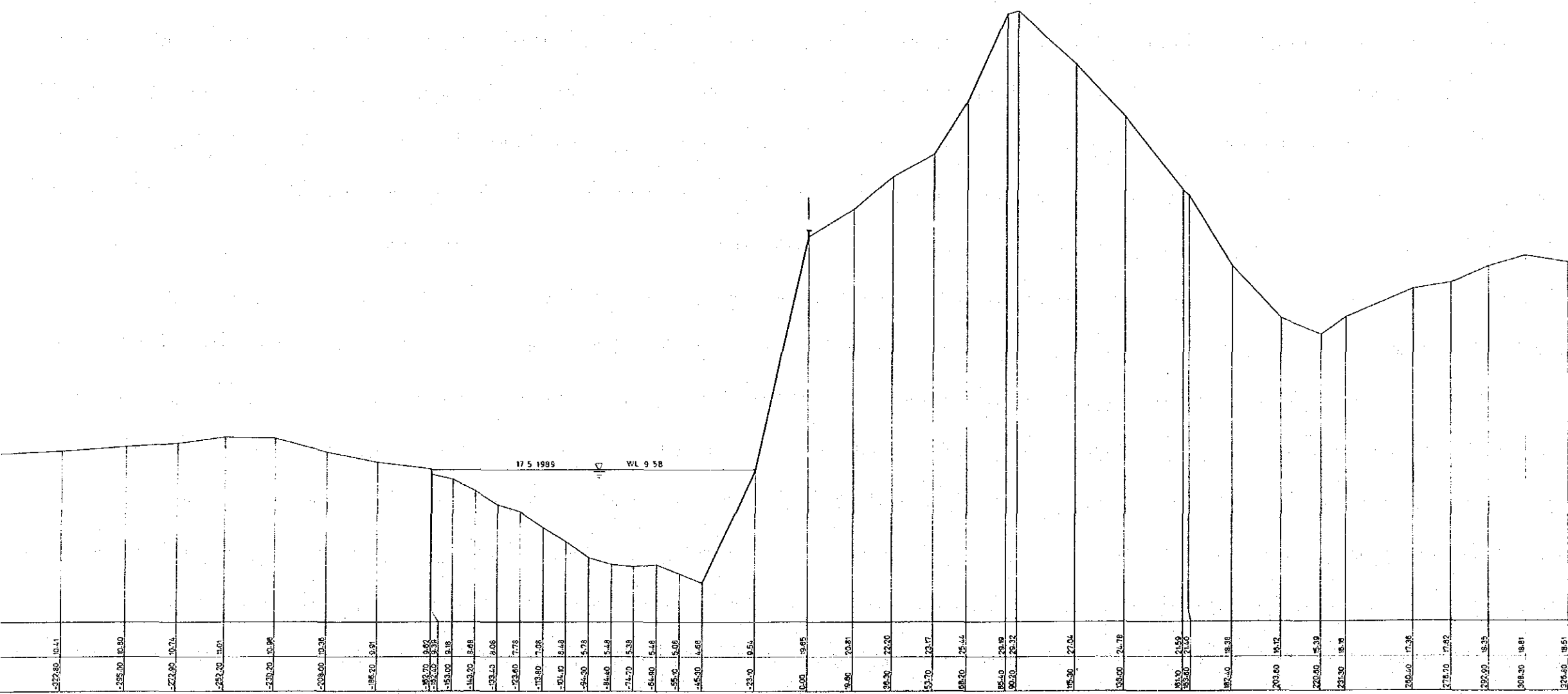
34.00 m
33.00 m
32.00 m
31.00 m
30.00 m
29.00 m
28.00 m
27.00 m
26.00 m
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12.00 m
11.00 m
10.00 m
9.00 m
8.00 m
7.00 m
6.00 m
5.00 m
4.00 m
3.00 m

DATUM

Ground Level (m)	Offset (m)
25.80	25.75
26.00	26.01
22.00	21.89
24.00	24.05
29.00	29.15
32.00	32.05
33.00	33.00
33.50	33.78
33.50	33.55
33.50	33.22
32.00	32.17
31.00	31.00
29.00	29.02
28.00	27.93
28.00	28.73
25.00	25.05
25.00	25.18
10.00	10.53
10.00	10.71
10.00	10.41
10.00	10.80
10.00	10.71
10.00	11.01
10.00	10.96
10.00	10.26
10.00	9.91
9.00	9.67
9.00	9.39
9.00	9.18
8.00	8.88
8.00	8.00
7.00	7.78
7.00	7.05
6.00	6.48
6.00	5.78
5.00	5.18
5.00	5.38
5.00	5.18
5.00	5.08
5.00	4.88
4.00	4.54
4.00	4.65
0.00	0.00
0.00	20.81

17.5 1985
WT 9 58

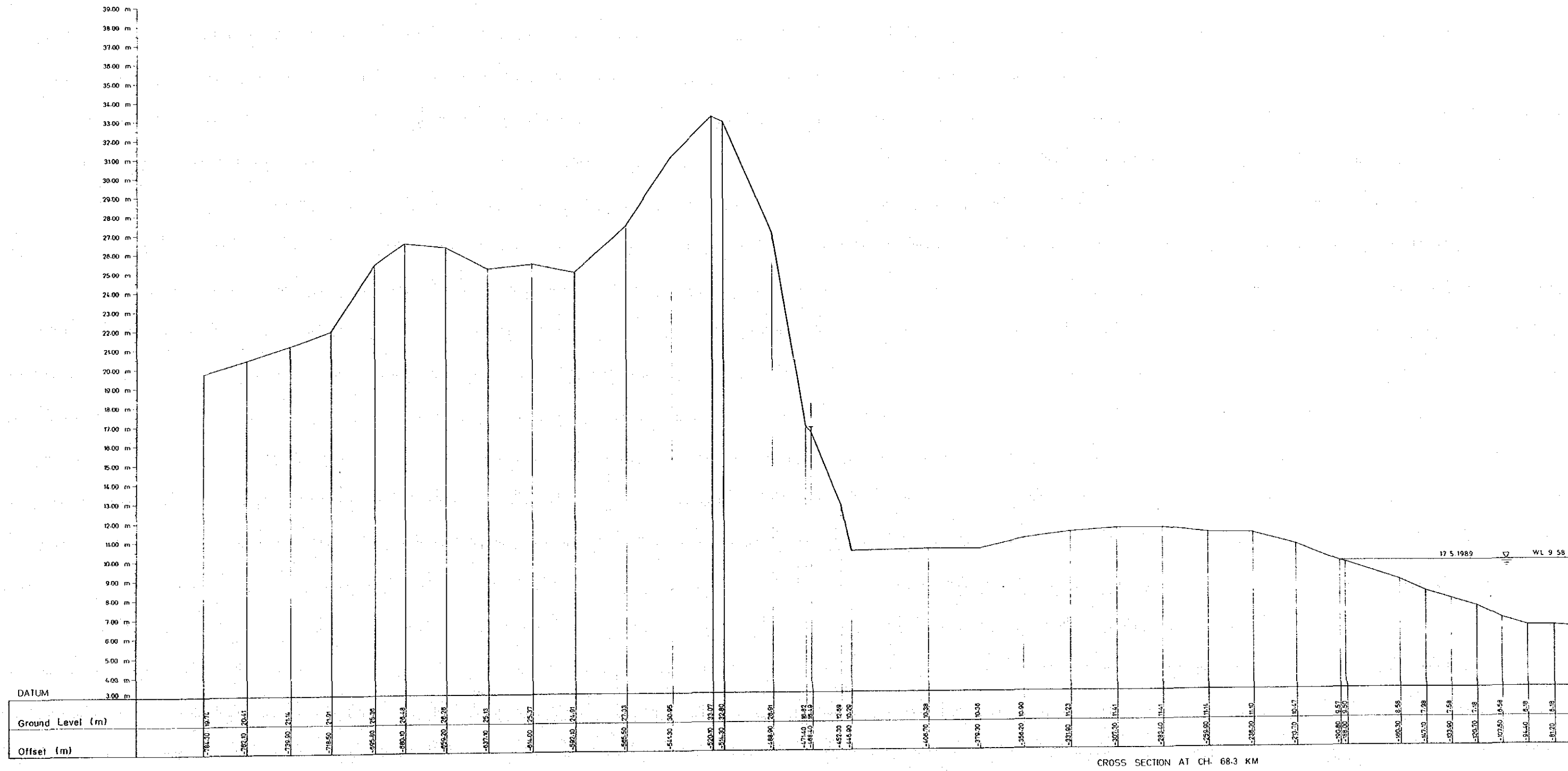
CROSS SECTION AT CH. 68+1 KM



CROSS SECTION AT CH. 68+1 KM

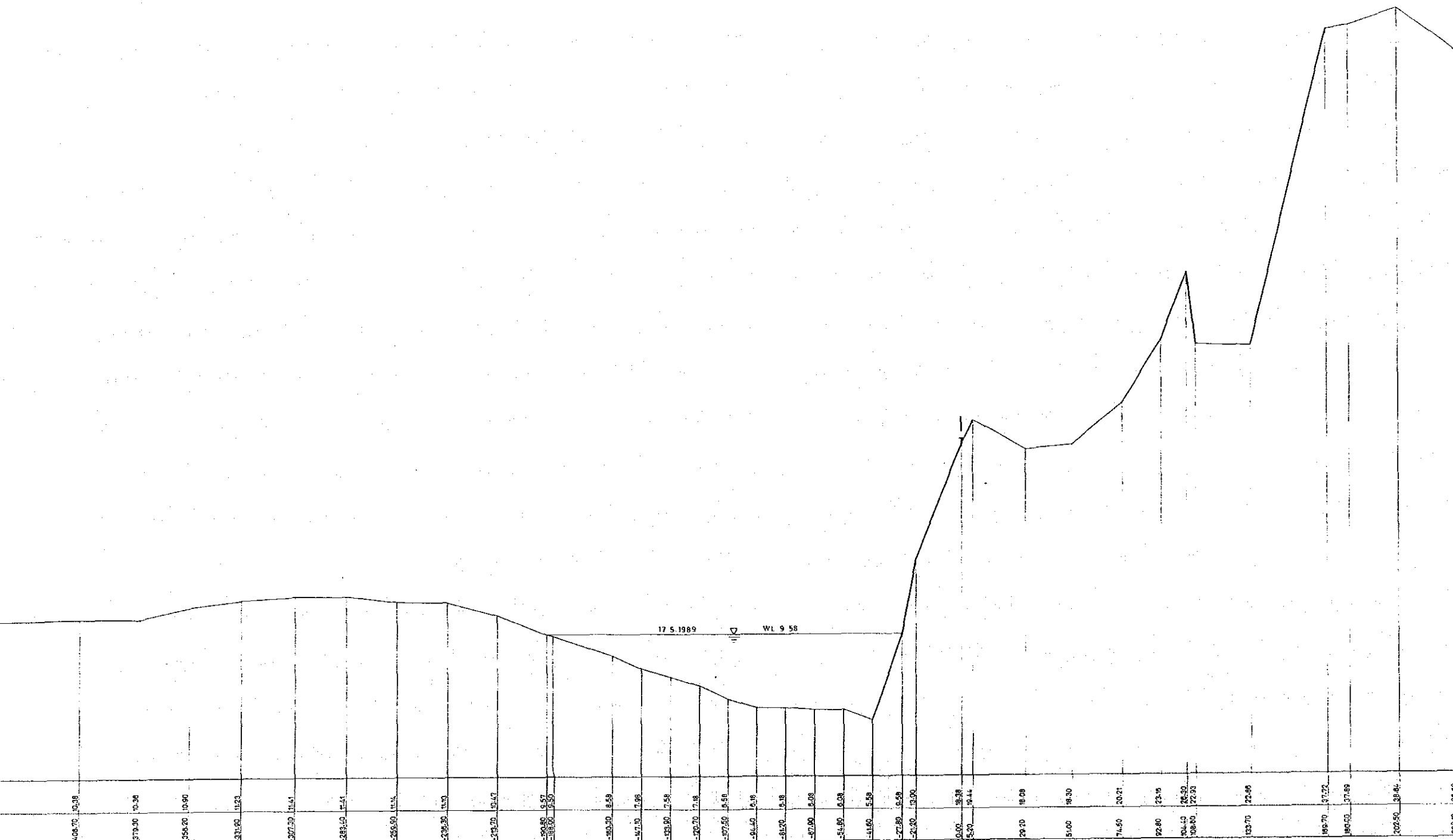
- P.M.A.P. :
 HOUSE :
 B.M. :
 RIVER WIDTH :
 ROAD or PATH :
 O.C.S. : OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION	
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN	
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)	
KAJIAN KOKUSAI SDN. BHD. <i>Consulting Surveyors</i>	
SECTION	From BM NO. 11 B-68.1 KM to BM NO. 11 --- KM
SHEET NO.	78/108
DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 : 100 Vertical : 1 : 10



CROSS SECTION AT CH. 68.3 KM

17 5 1989 WL 9 58



CROSS SECTION AT CH. 68.3 KM

- REMARKS
- ↑ HIGH
 - T.H.M
 - I RIVER WIDTH
 - ROAD or PATH
 - D.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION	
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN	
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)	
KAJIAN KOKUSAI SDN. BHD. <small>(Consulting Engineers)</small>	
SECTION	From TBM NO. KL 8 - 68.3 KM to TRM NO. 11 --- KM
S-FF: NO. 79/108	DATE SURVEYED: MAY 1989
SCALE	Horizontal: 1 / 1000 Vertical: 1 / 100

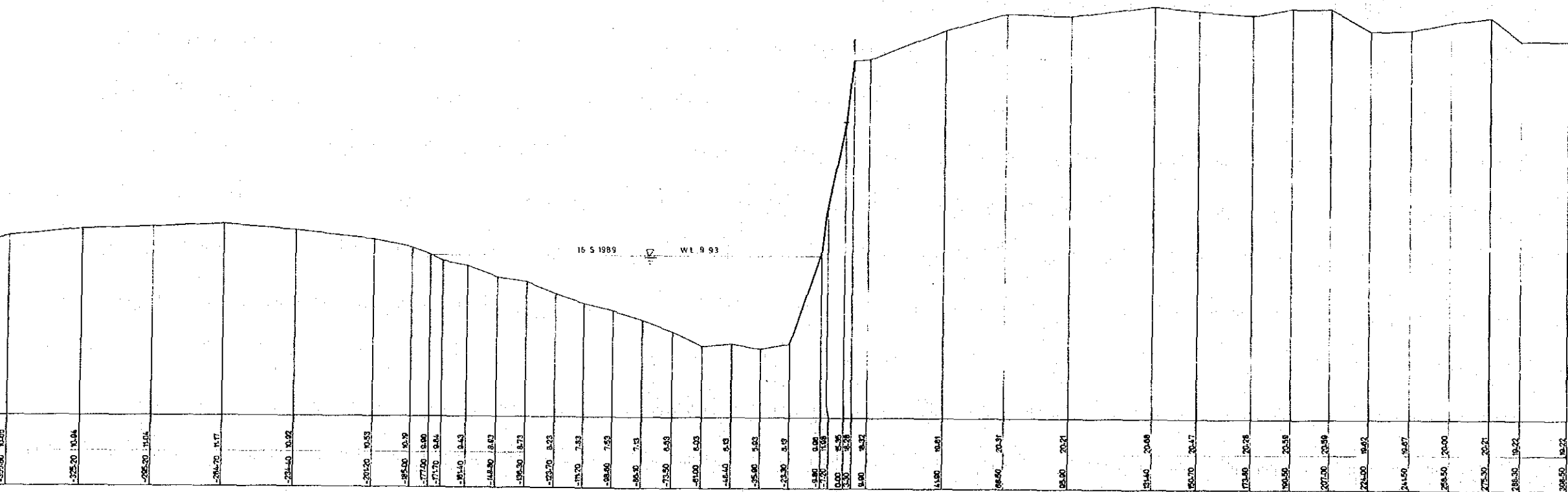
24.00 m
23.00 m
22.00 m
21.00 m
20.00 m
19.00 m
18.00 m
17.00 m
16.00 m
15.00 m
14.00 m
13.00 m
12.00 m
11.00 m
10.00 m
9.00 m
8.00 m
7.00 m
6.00 m
5.00 m
4.00 m
3.00 m

DATUM

Ground Level (m)	750.70	750.41	750.10	749.80	749.50	749.20	748.90	748.60	748.30	748.00	747.70	747.40	747.10	746.80	746.50	746.20	745.90	745.60	745.30	745.00	744.70	744.40	744.10	743.80	743.50	743.20	742.90	742.60	742.30	742.00	741.70	741.40	741.10	740.80	740.50	740.20	739.90	739.60	739.30	739.00	738.70	738.40	738.10	737.80	737.50	737.20	736.90	736.60	736.30	736.00	735.70	735.40	735.10	734.80	734.50	734.20	733.90	733.60	733.30	733.00	732.70	732.40	732.10	731.80	731.50	731.20	730.90	730.60	730.30	730.00	729.70	729.40	729.10	728.80	728.50	728.20	727.90	727.60	727.30	727.00	726.70	726.40	726.10	725.80	725.50	725.20	724.90	724.60	724.30	724.00	723.70	723.40	723.10	722.80	722.50	722.20	721.90	721.60	721.30	721.00	720.70	720.40	720.10	719.80	719.50	719.20	718.90	718.60	718.30	718.00	717.70	717.40	717.10	716.80	716.50	716.20	715.90	715.60	715.30	715.00	714.70	714.40	714.10	713.80	713.50	713.20	712.90	712.60	712.30	712.00	711.70	711.40	711.10	710.80	710.50	710.20	709.90	709.60	709.30	709.00	708.70	708.40	708.10	707.80	707.50	707.20	706.90	706.60	706.30	706.00	705.70	705.40	705.10	704.80	704.50	704.20	703.90	703.60	703.30	703.00	702.70	702.40	702.10	701.80	701.50	701.20	700.90	700.60	700.30	700.00																															
Offset (m)	0.00	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	14.00	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50	40.00	40.50	41.00	41.50	42.00	42.50	43.00	43.50	44.00	44.50	45.00	45.50	46.00	46.50	47.00	47.50	48.00	48.50	49.00	49.50	50.00	50.50	51.00	51.50	52.00	52.50	53.00	53.50	54.00	54.50	55.00	55.50	56.00	56.50	57.00	57.50	58.00	58.50	59.00	59.50	60.00	60.50	61.00	61.50	62.00	62.50	63.00	63.50	64.00	64.50	65.00	65.50	66.00	66.50	67.00	67.50	68.00	68.50	69.00	69.50	70.00	70.50	71.00	71.50	72.00	72.50	73.00	73.50	74.00	74.50	75.00	75.50	76.00	76.50	77.00	77.50	78.00	78.50	79.00	79.50	80.00	80.50	81.00	81.50	82.00	82.50	83.00	83.50	84.00	84.50	85.00	85.50	86.00	86.50	87.00	87.50	88.00	88.50	89.00	89.50	90.00	90.50	91.00	91.50	92.00	92.50	93.00	93.50	94.00	94.50	95.00	95.50	96.00	96.50	97.00	97.50	98.00	98.50	99.00	99.50	100.00

CROSS SECTION AT CH. 68.5 KM

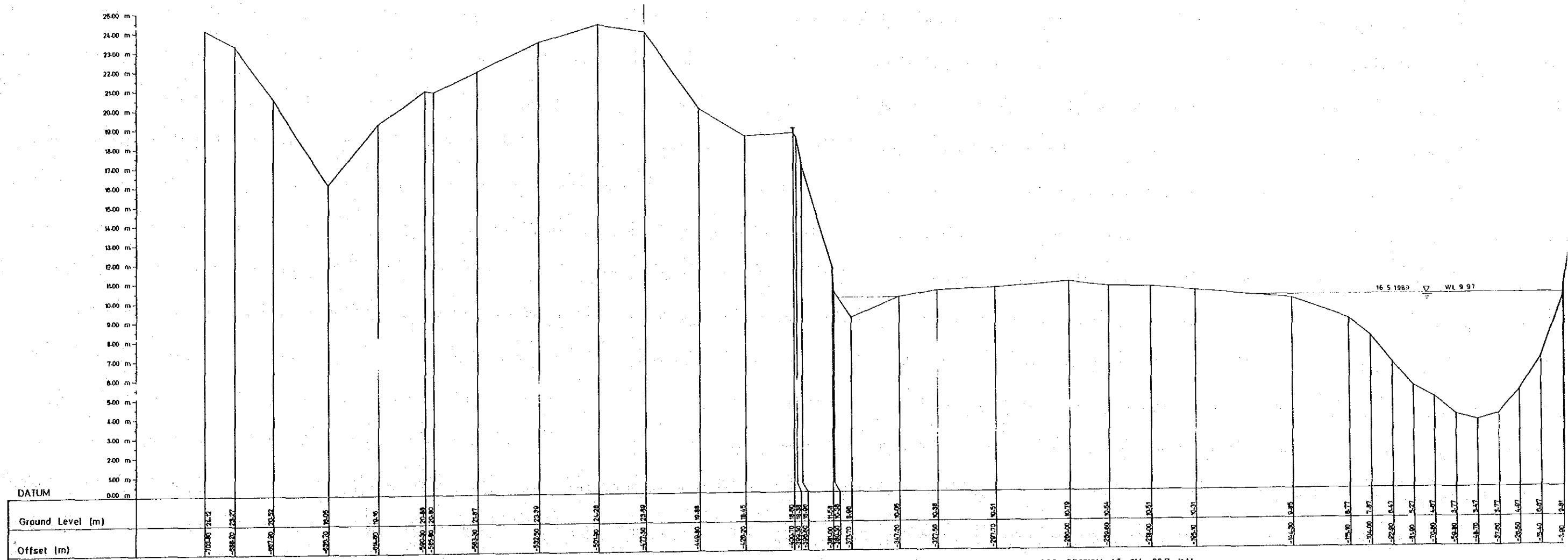
16 5 1989 WL 9 93



CROSS SECTION AT CH. 68.5 KM

- REMARKS :
- ↑ HOUSE
 - T TBM
 - I RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Services)			
SECTION:	From TBM NO. KL 2 - 68.5 KM To TBM NO. KL --- KM		
SHEET NO. 80 / 108	DATE SURVEYED	MAY 1989	
SCALE	Horizontal : 1 / 1,000	Vertical : 1 / 100	



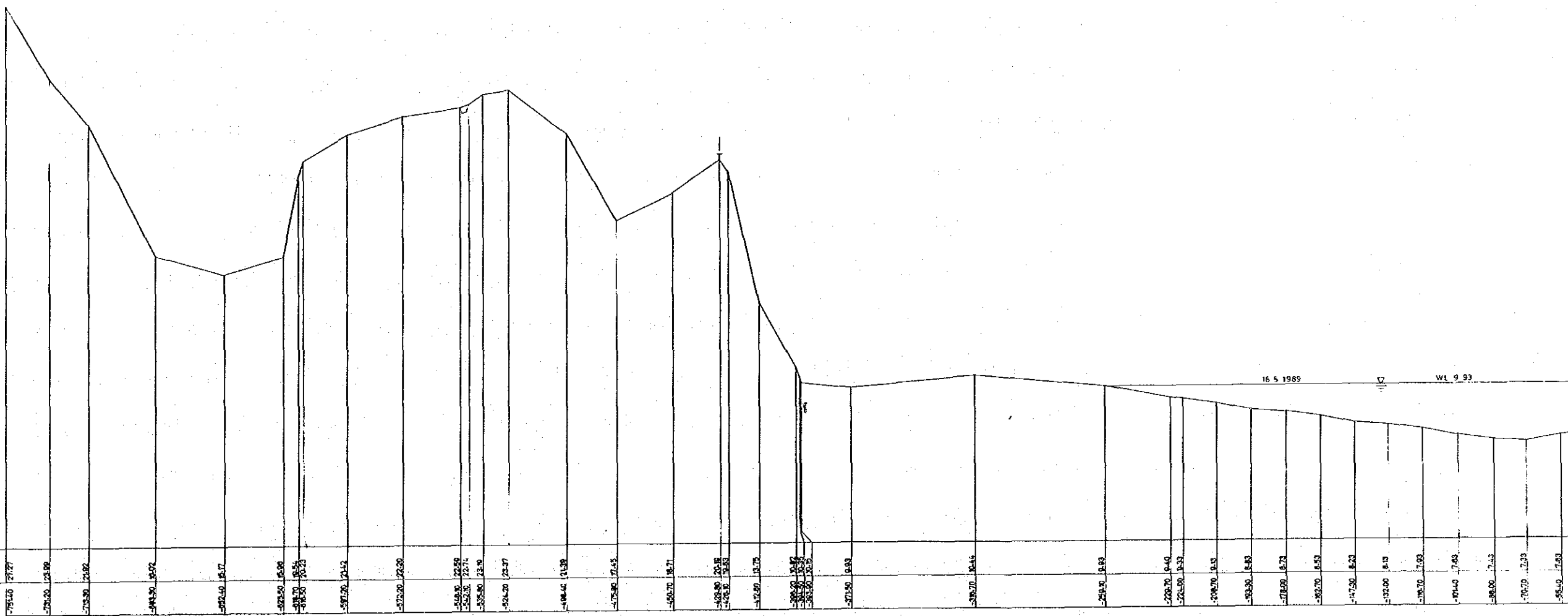
CROSS SECTION AT CH. 68.7 KM

28.00 m
27.00 m
26.00 m
25.00 m
24.00 m
23.00 m
22.00 m
21.00 m
20.00 m
19.00 m
18.00 m
17.00 m
16.00 m
15.00 m
14.00 m
13.00 m
12.00 m
11.00 m
10.00 m
9.00 m
8.00 m
7.00 m
6.00 m
5.00 m
4.00 m
3.00 m

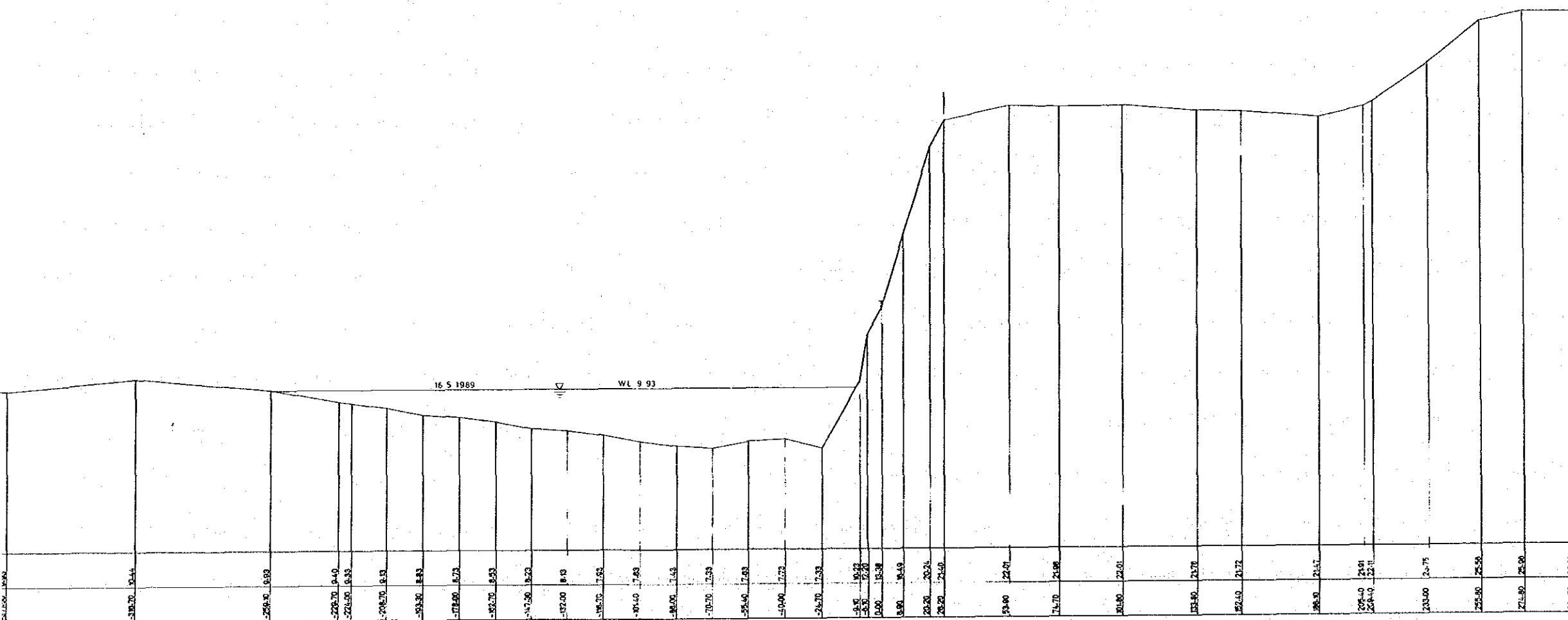
DATUM

Ground Level (m)

Offset (m)



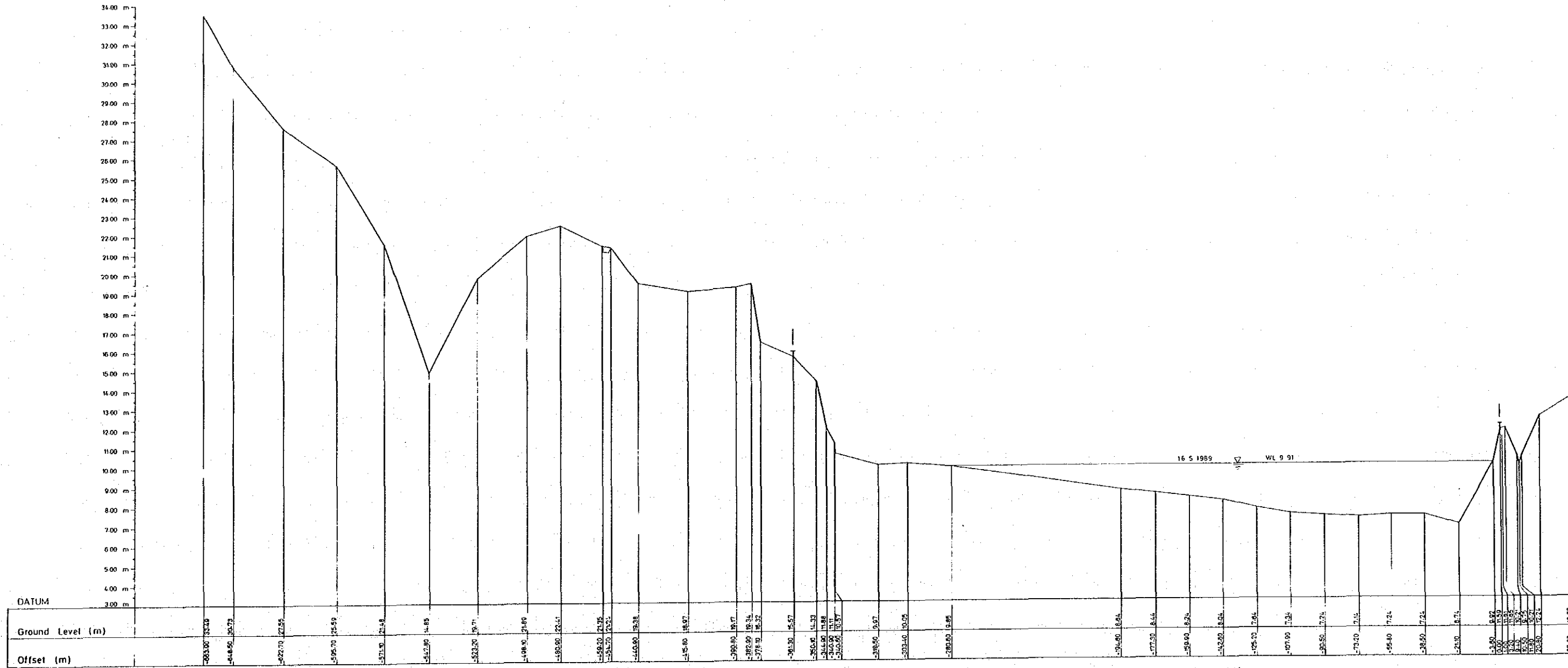
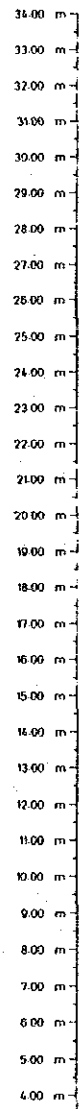
CROSS SECTION AT CH. 68.9 KM



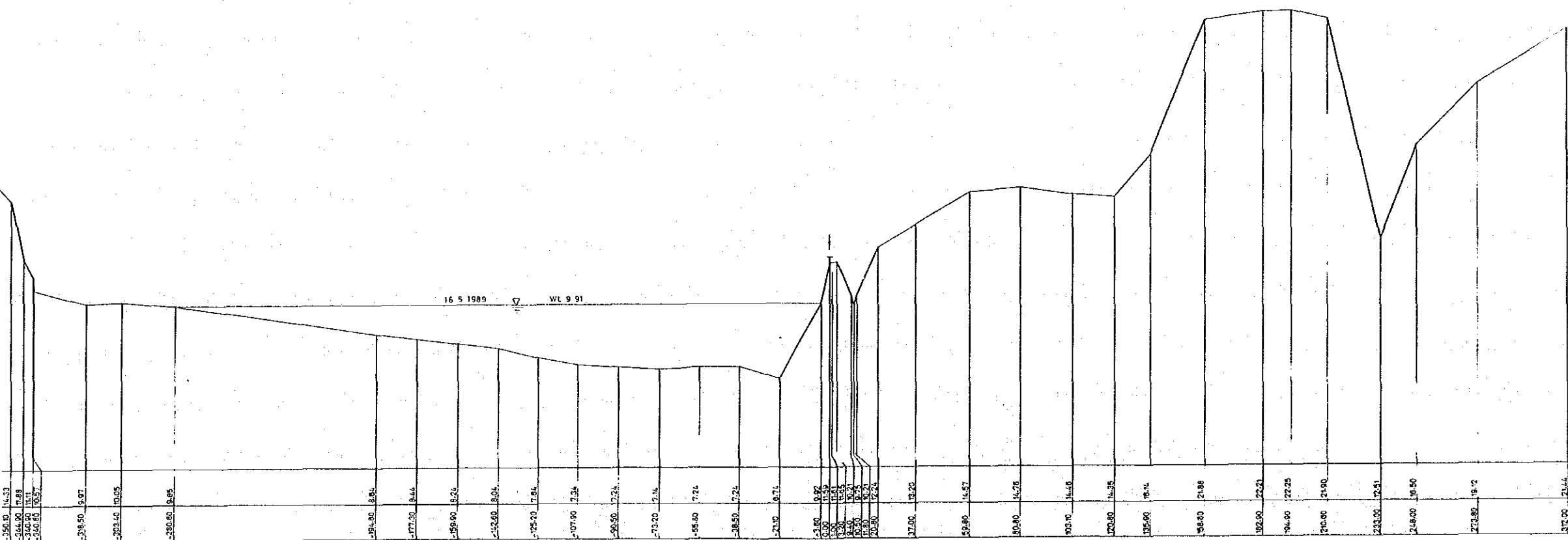
CROSS SECTION AT CH. 68.9 KM

- REMARKS :
- ↑ HOUSE
 - T TBM
 - I RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Services)			
SECTION	From TBM NO. KL 8-689 KM To TBM NO. KL --- KM		
SHEET NO.	82/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000		Vertical : 1 / 100

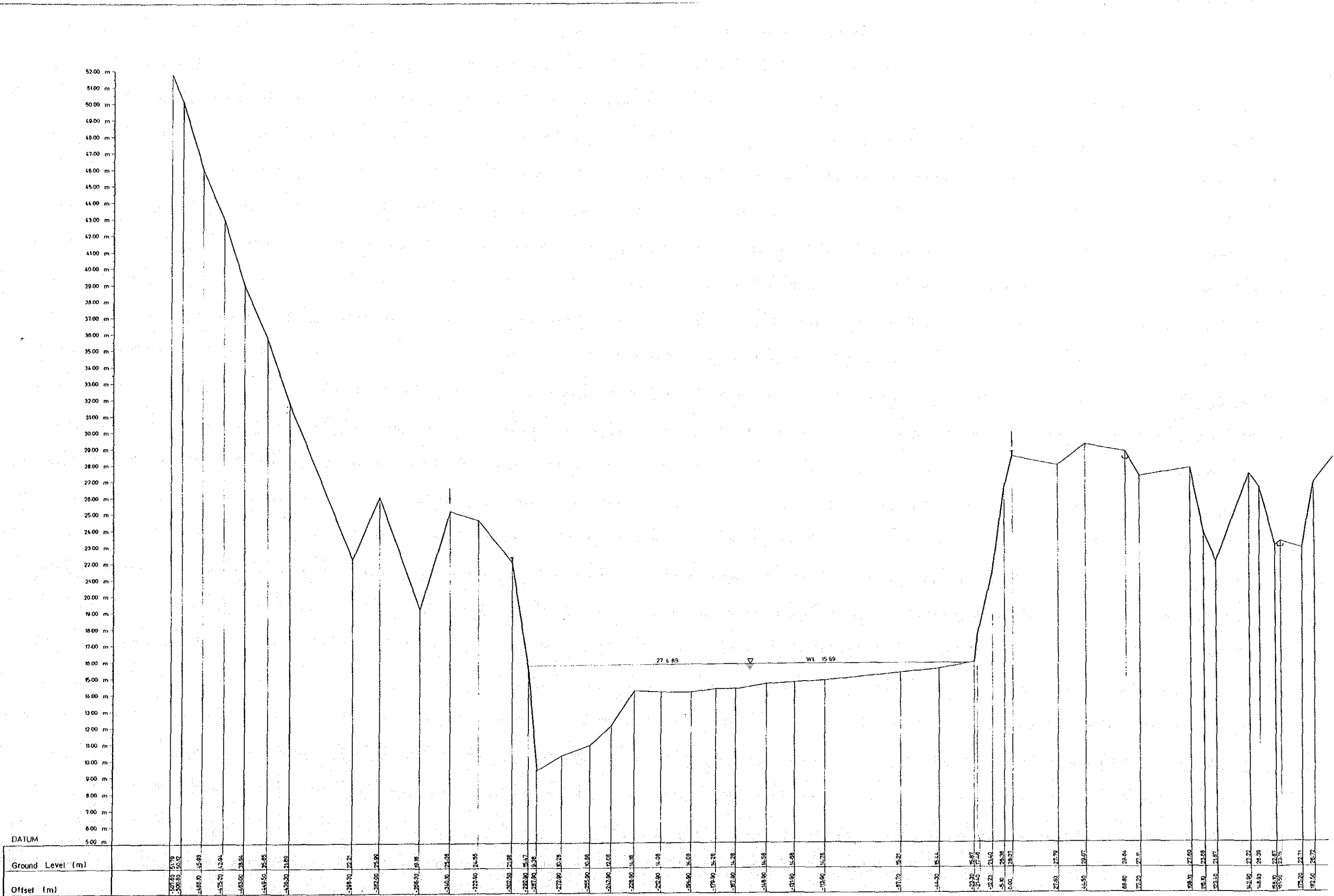


Offset (m)	Ground Level (m)
2803.00	33.59
2448.50	30.79
2422.70	27.95
2395.70	25.99
2371.50	21.68
2357.80	14.85
2323.30	19.71
2198.30	21.80
2180.80	22.41
2159.30	21.95
2157.70	21.51
2140.80	19.28
2115.80	18.97
2090.80	18.77
2082.80	18.34
2078.30	18.32
2061.30	15.57
2050.80	14.39
2044.80	14.88
2040.80	14.11
2030.80	10.57
2005.80	9.97
2033.80	10.05
2005.80	9.85
1976.80	8.84
1977.30	8.44
1959.80	8.24
1942.80	8.04
1925.30	7.84
1907.90	7.34
1895.80	7.24
1878.20	7.14
1855.80	7.24
1838.50	7.24
1821.80	7.14
1804.80	7.24
1788.50	7.24
1771.80	7.14
1755.80	7.24
1739.80	7.24
1723.80	7.14
1707.80	7.24
1691.80	7.14
1675.80	7.24
1659.80	7.14
1643.80	7.24
1627.80	7.14
1611.80	7.24
1595.80	7.14
1579.80	7.24
1563.80	7.14
1547.80	7.24
1531.80	7.14
1515.80	7.24
1499.80	7.14
1483.80	7.24
1467.80	7.14
1451.80	7.24
1435.80	7.14
1419.80	7.24
1403.80	7.14
1387.80	7.24
1371.80	7.14
1355.80	7.24
1339.80	7.14
1323.80	7.24
1307.80	7.14
1291.80	7.24
1275.80	7.14
1259.80	7.24
1243.80	7.14
1227.80	7.24
1211.80	7.14
1195.80	7.24
1179.80	7.14
1163.80	7.24
1147.80	7.14
1131.80	7.24
1115.80	7.14
1099.80	7.24
1083.80	7.14
1067.80	7.24
1051.80	7.14
1035.80	7.24
1019.80	7.14
1003.80	7.24
987.80	7.14
971.80	7.24
955.80	7.14
939.80	7.24
923.80	7.14
907.80	7.24
891.80	7.14
875.80	7.24
859.80	7.14
843.80	7.24
827.80	7.14
811.80	7.24
795.80	7.14
779.80	7.24
763.80	7.14
747.80	7.24
731.80	7.14
715.80	7.24
699.80	7.14
683.80	7.24
667.80	7.14
651.80	7.24
635.80	7.14
619.80	7.24
603.80	7.14
587.80	7.24
571.80	7.14
555.80	7.24
539.80	7.14
523.80	7.24
507.80	7.14
491.80	7.24
475.80	7.14
459.80	7.24
443.80	7.14
427.80	7.24
411.80	7.14
395.80	7.24
379.80	7.14
363.80	7.24
347.80	7.14
331.80	7.24
315.80	7.14
299.80	7.24
283.80	7.14
267.80	7.24
251.80	7.14
235.80	7.24
219.80	7.14
203.80	7.24
187.80	7.14
171.80	7.24
155.80	7.14
139.80	7.24
123.80	7.14
107.80	7.24
91.80	7.14
75.80	7.24
59.80	7.14
43.80	7.24
27.80	7.14
11.80	7.24
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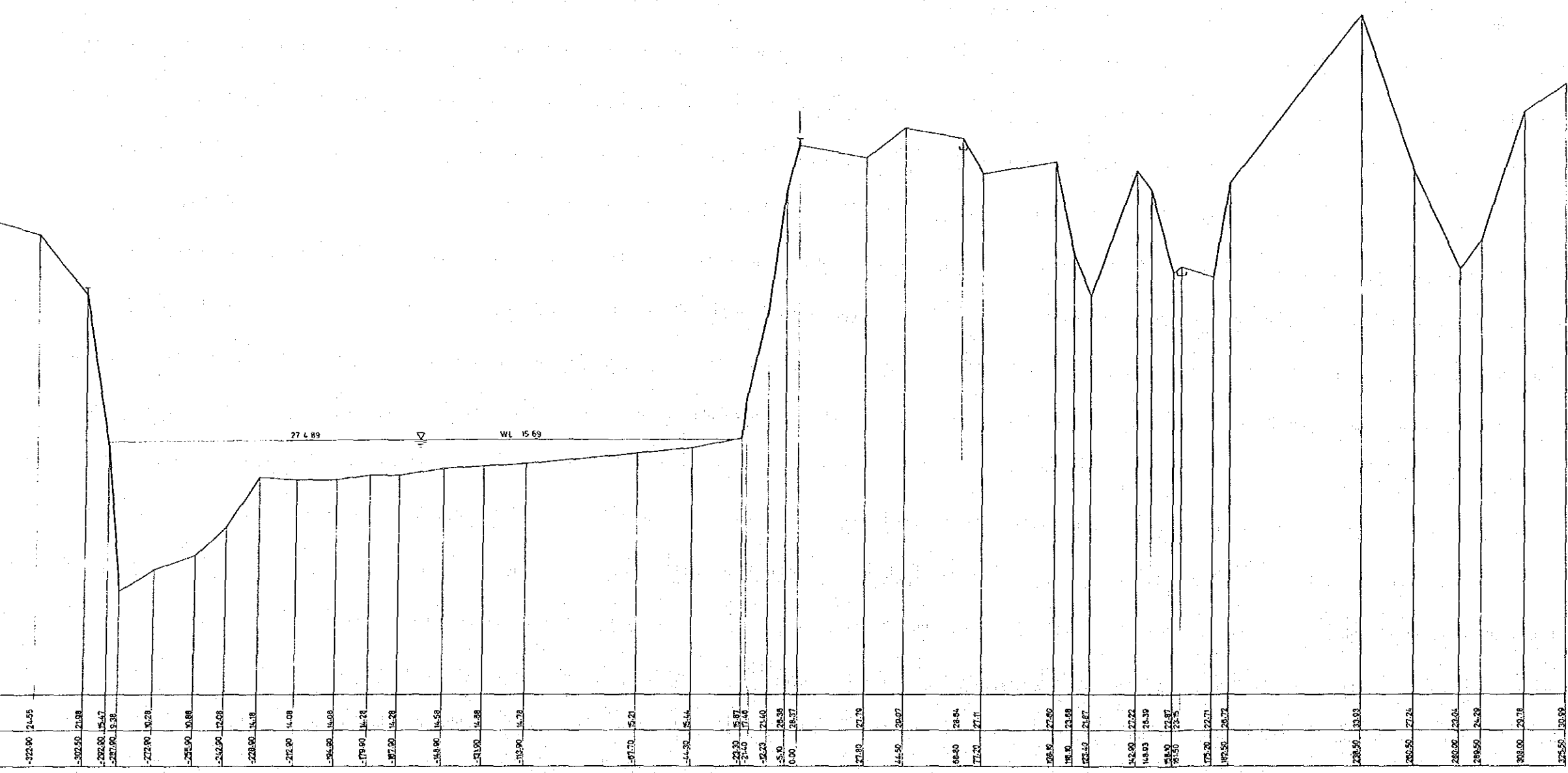


CROSS SECTION AT CH. 69.6 KM

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. <small>(Consulting Surveyors)</small>			
SECTION	From IBM NO. K. 8-69.0 KM to IBM NO. KI --- KM		
SHEET NO.	83/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal - 1 / 1000		Vertical - 1 / 100



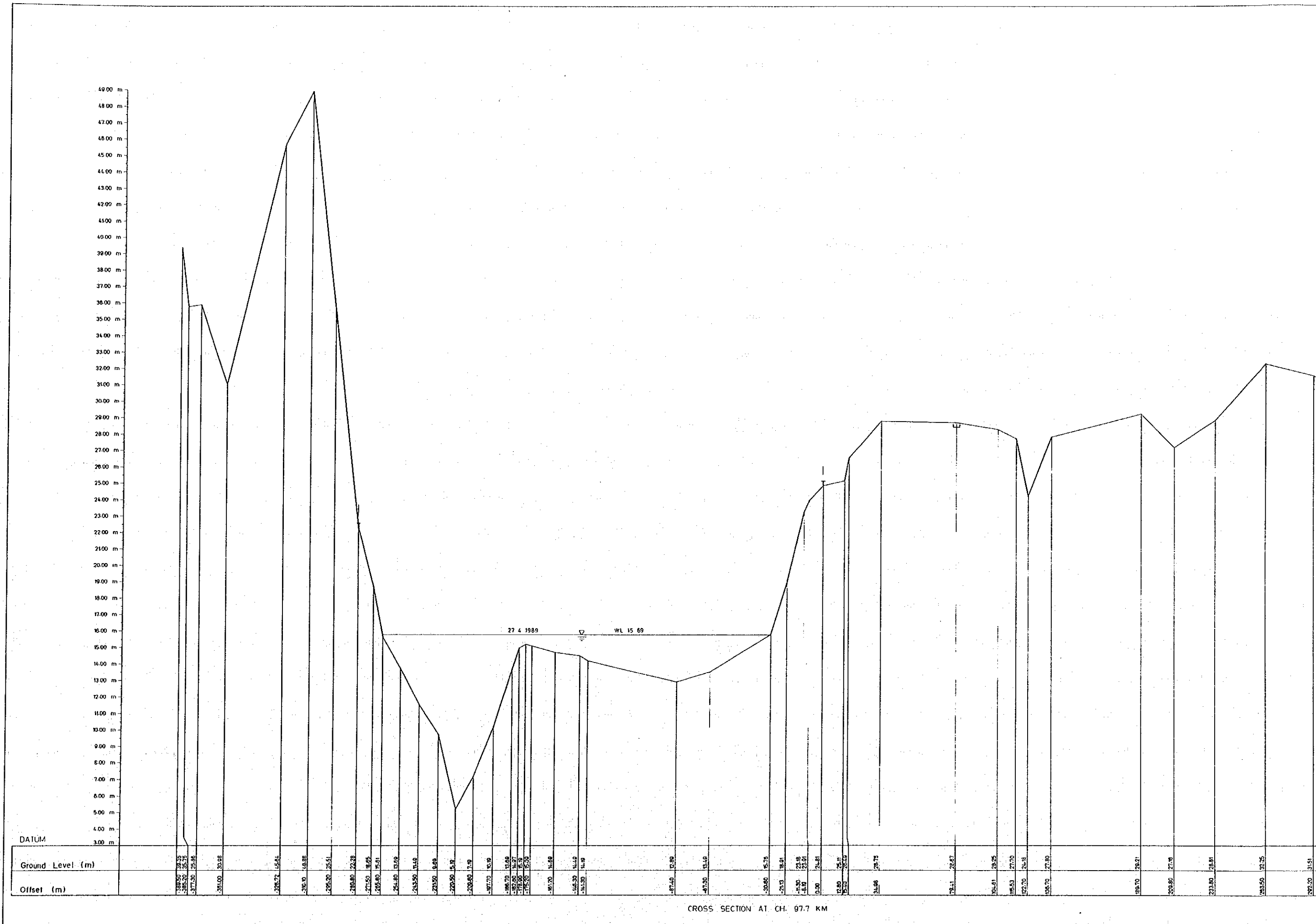
CROSS SECTION AT CH. 97.5 KM



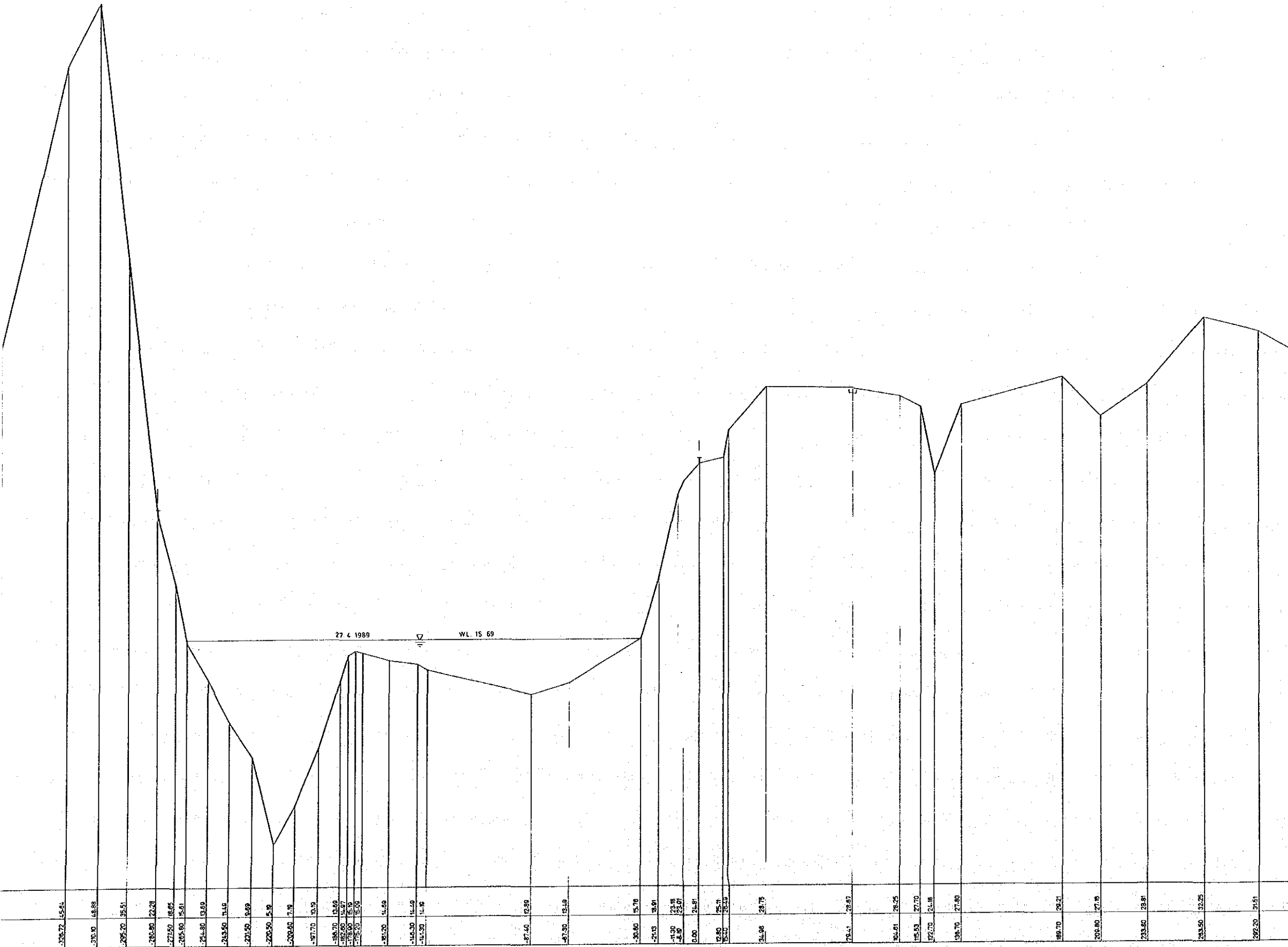
CROSS SECTION AT CH. 97.5 KM

- REMARKS
- ↑ HOUSE
 - T IBM
 - | RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON MELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION	From IBM NO. KL 12 - 97.5 KM	To IBM NO. KL	— — K04
SHEET NO.	84/108	DATE SURVEYED	MAY 1980
SCALE	Horizontal - 1 / 1,000		Vertical - 1 / 100



CROSS SECTION AT CH. 97.7 KM

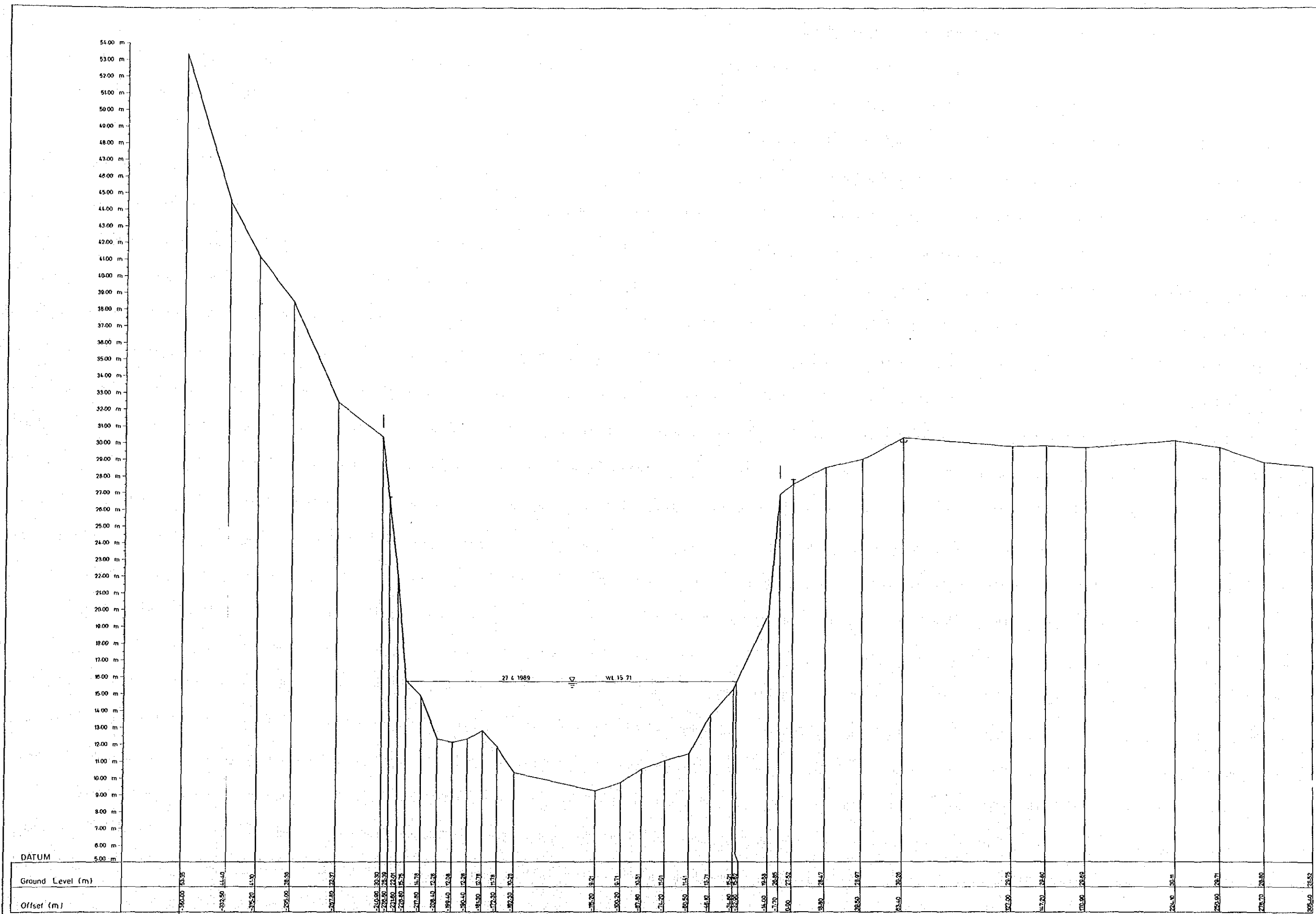


27.4.1989 WL 15.69

CROSS SECTION AT CH. 97.7 KM

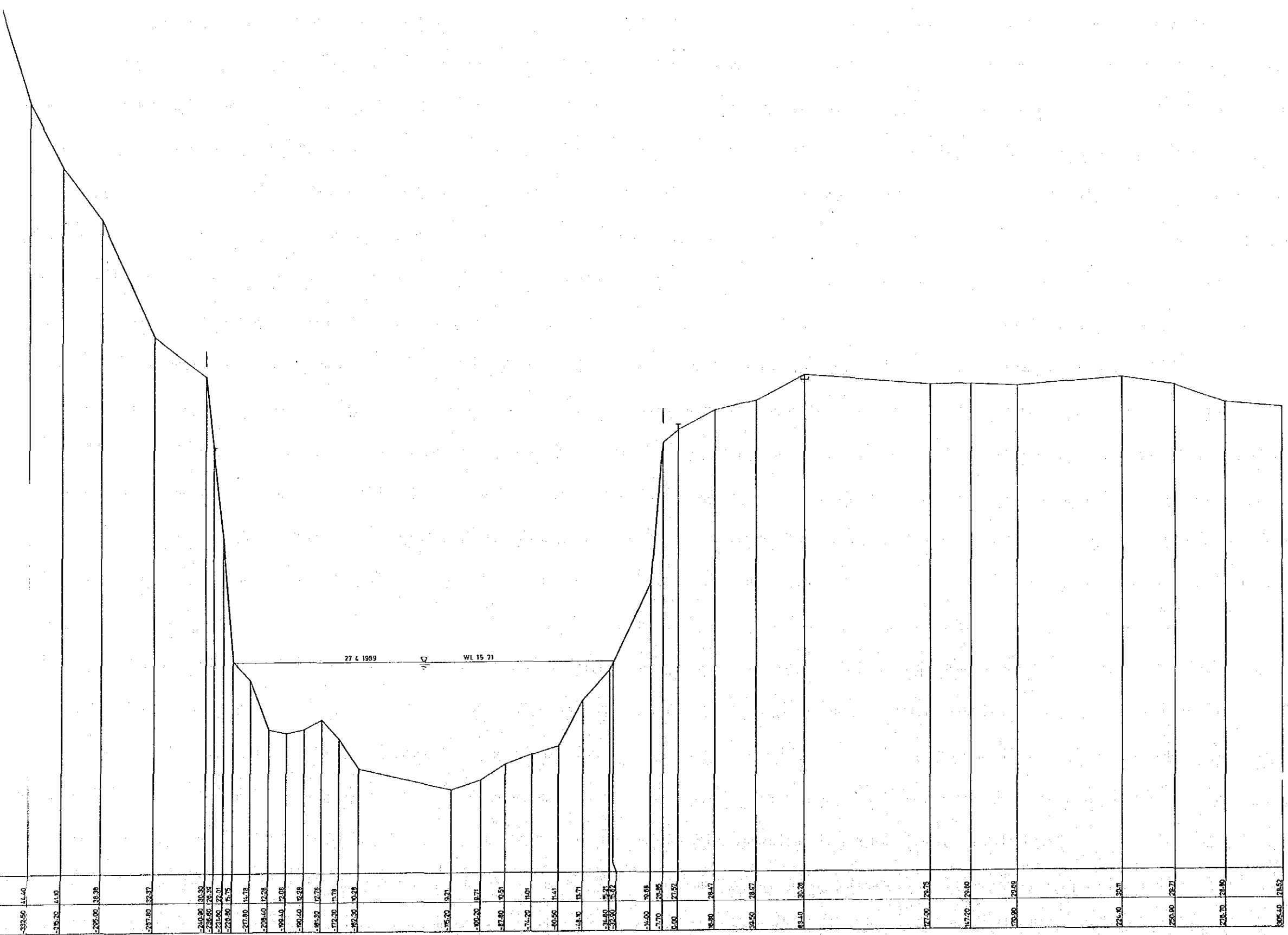
- REMARKS :
- ↑ HOUSE
 - I TBM
 - | RIVER WIDTH
 - ~ ROAD or PATH
 - OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION	
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN	
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)	
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)	
SECTION	From TBM NO. KL 12 - 97.7 KM To TBM NO. KL --- KM
SHEET NO. 85/108	DATE SURVEYED MAY 1989
SCALE	Horizontal : 1 / 1,000 Vertical : 1 / 100



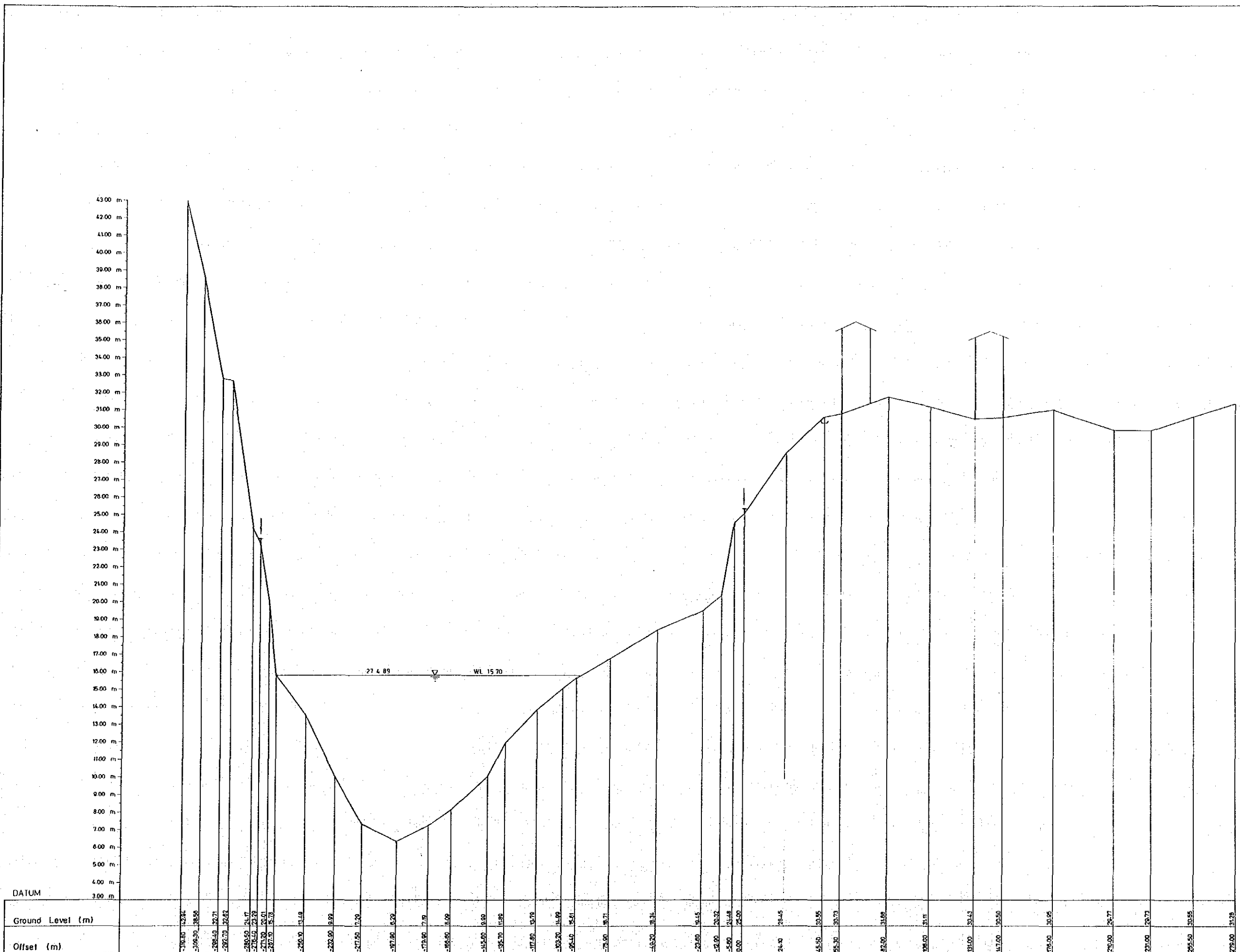
CROSS SECTION AT CH. 97.9 KM

STUDY OF
CRH
JC
SECTION
SHEET NO.
SCALE



- REMARKS
- ↑ HOUSE
 - T T.M.
 - I RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

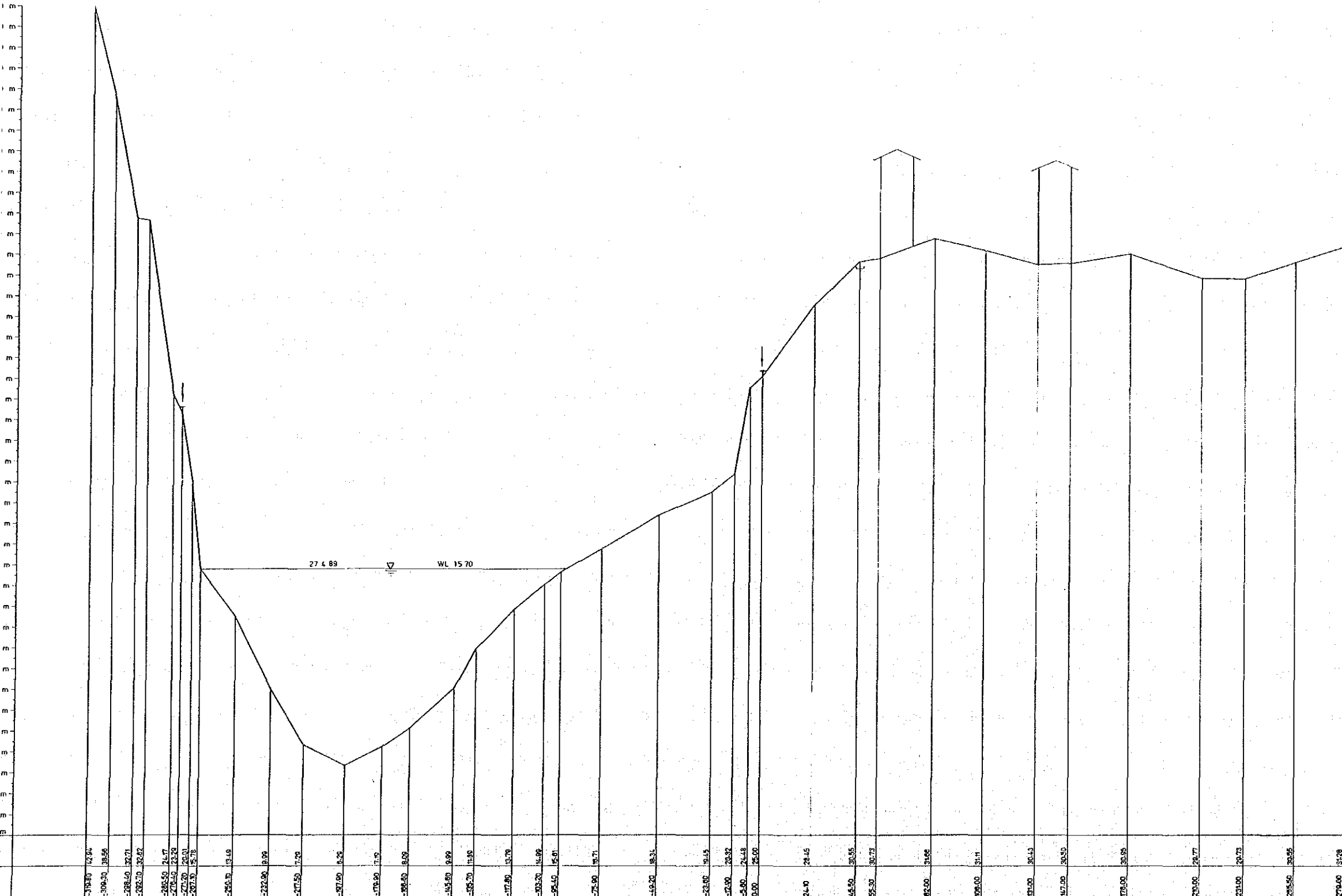
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION	From TBM NO. KL 12 - 37.9 KM To TBM NO. KL --- KM		
SHEET NO. 86/108	DATE SURVEYED	MAY 1989	
SCALE	Horizontal . 1 / 1,000	Vertical . 1 / 100	



- REMARKS
- ↑ HOUSE
 - ∩ TBM
 - | RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-W	
CROSS-SECTIONAL PROFILE OF SL	
JICA (JAPAN INTERNATIONAL COO	
KAJIAN KOKUSAI SDN	
(Consulting Surveyors)	
SECTION	From TBM NO. KL 12 - 98 1 KM
SHEET NO. 87/108	DATE SL
SCALE	Horizontal : 1 / 1,000 Vert

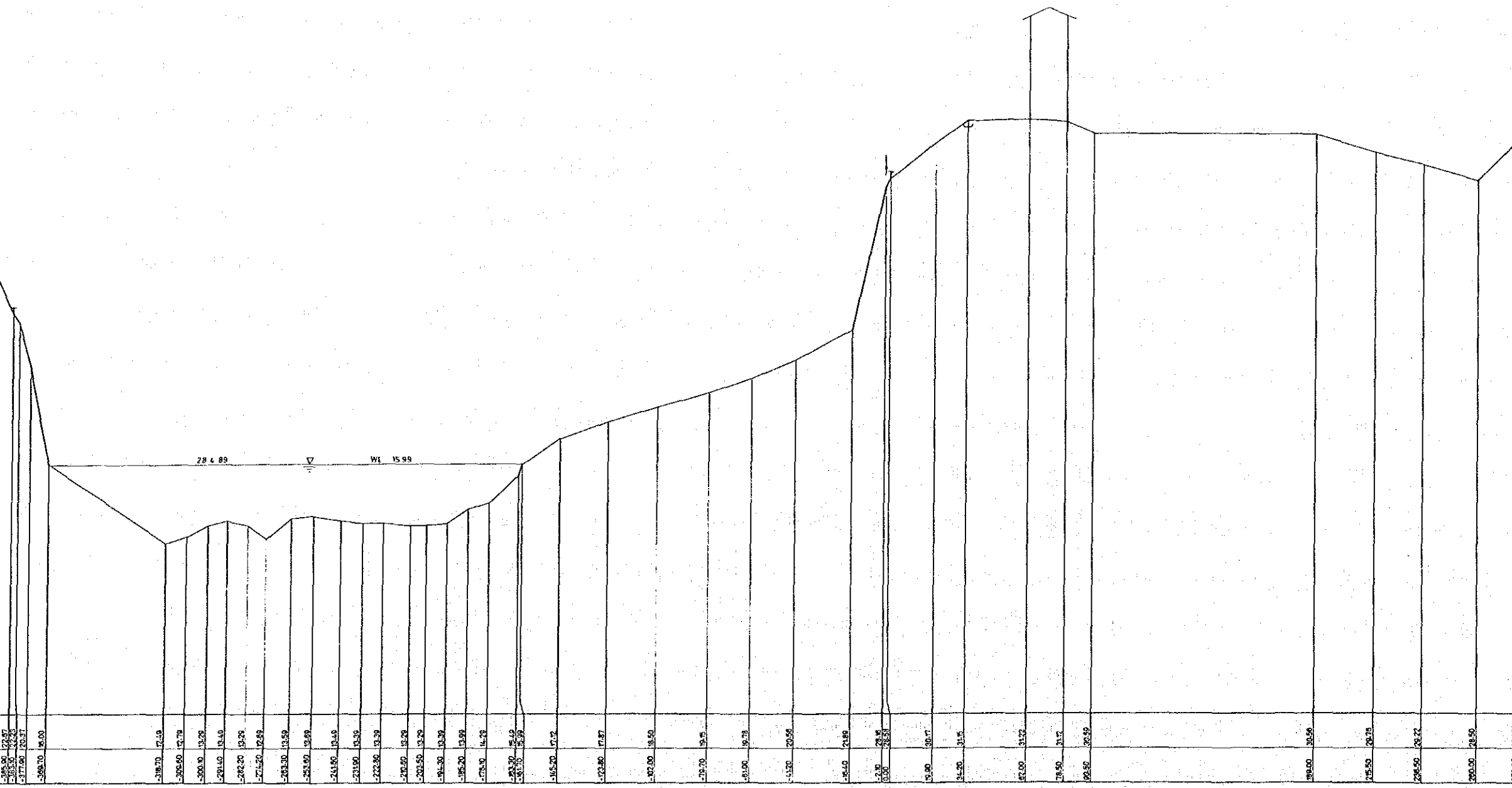
CROSS SECTION AT CH. 98.1 KM



CROSS SECTION AT CH. 98.1 KM

- REMARKS :
- ⏏ HOUSE
 - T TBM
 - I RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION	
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN	
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)	
KAJIAN KOKUSAI SDN. BHD. (Consulting Engineers)	
SECTION	From TBM NO. KL 12-98 1 KM To TBM NO. KL --- KM
SHEET NO. 87/108	DATE SURVEYED MAY 1989
SCALE	Horizontal : 1 / 1,000 Vertical : 1 / 100

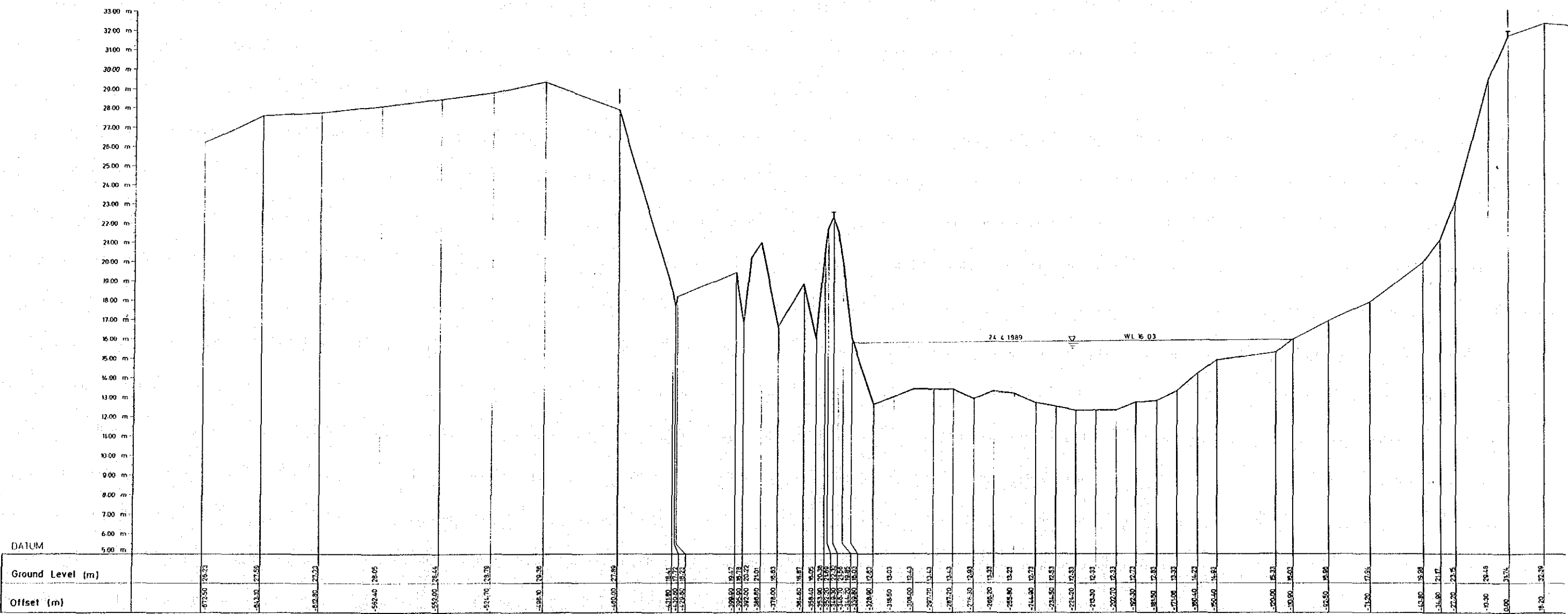


28 4 89 W1 15 99

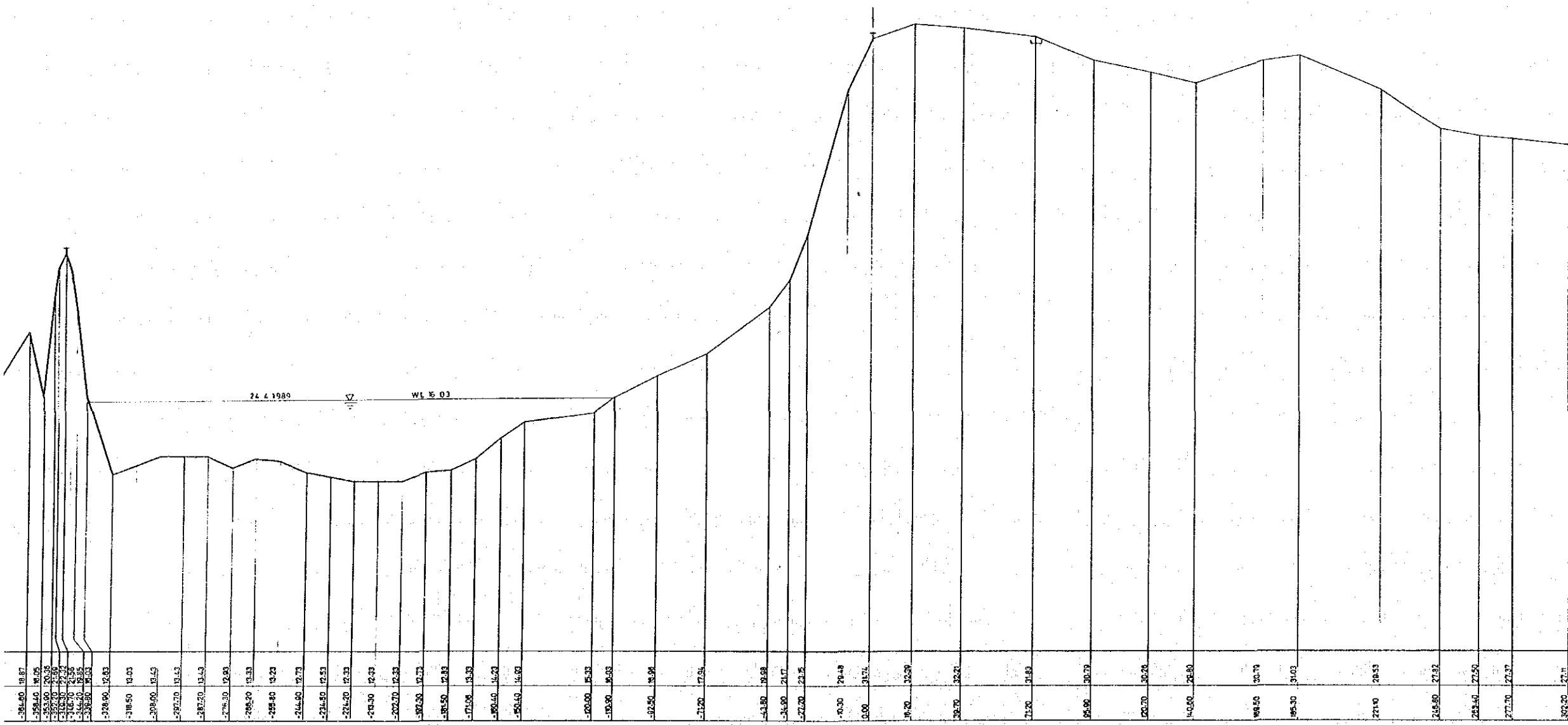
- REMARKS :
- HOUSE
 - TBM
 - RIVER WIDTH
 - ROAD or PATH
 - O.C.S. : OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION	From TBM NO. KL 12-98.3 KM To TBM NO. KL --- KM		
SHEET NO. 88/108	DATE SURVEYED	MAY 1989	
SCALE	Horizontal : 1 / 1,000		Vertical : 1 / 100

CROSS SECTION AT CH. 98.3 KM



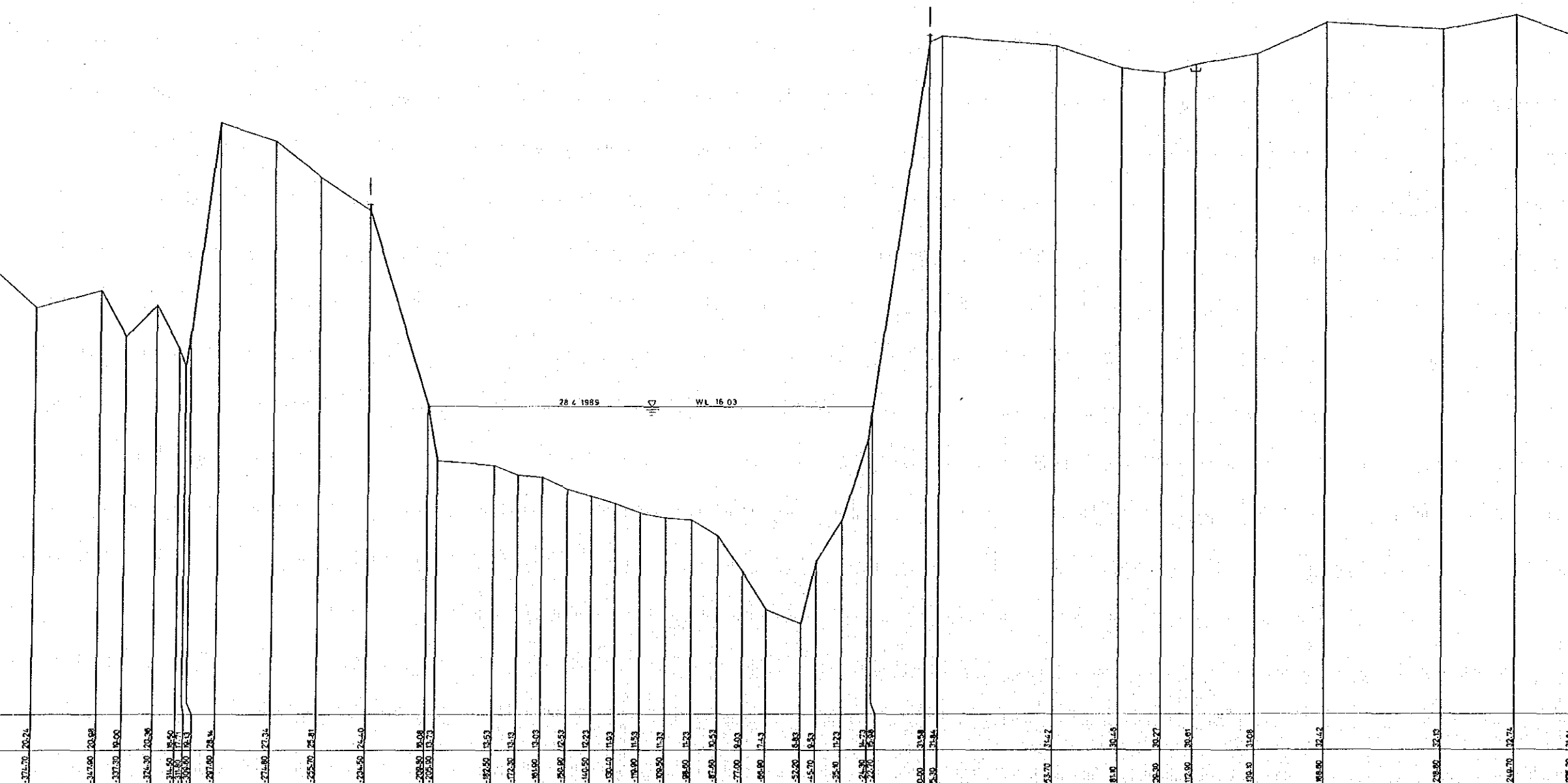
CROSS SECTION AT CH. 98.5 KM



CROSS SECTION AT CH. 98.5 KM

- REMARKS
- ↑ HOUSE
 - | TBM
 - | RIVER WIDTH
 - ~ ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Geodetic Surveyors)			
SECTION	From IBM NO. KL 12-98.5 KM To IBM NO. KL --- KM		
SHEET NO.	89/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal 1 / 1,000	Vertical	1 / 100



CROSS SECTION AT CH. 98.8 KM

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Engineers)			
SECTION	From TBM NO. KL 12-98.6 KM to TBM NO. KL --- KM		
SHEET NO.	90/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000		Vertical : 1 / 100

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Ground Level (m)

Offset (m)

734.70	729.87	725.00	720.15	715.37	710.55	705.70	700.84	695.97	691.10	686.23	681.36	676.49	671.62	666.75	661.88	657.01	652.14	647.27	642.40	637.53	632.66	627.79	622.92	618.05	613.18	608.31	603.44	598.57	593.70	588.83	583.96	579.09	574.22	569.35	564.48	559.61	554.74	549.87	545.00	540.13	535.26	530.39	525.52	520.65	515.78	510.91	506.04	501.17	496.30	491.43	486.56	481.69	476.82	471.95	467.08	462.21	457.34	452.47	447.60	442.73	437.86	432.99	428.12	423.25	418.38	413.51	408.64	403.77	398.90	394.03	389.16	384.29	379.42	374.55	369.68	364.81	359.94	355.07	350.20	345.33	340.46	335.59	330.72	325.85	320.98	316.11	311.24	306.37	301.50	296.63	291.76	286.89	282.02	277.15	272.28	267.41	262.54	257.67	252.80	247.93	243.06	238.19	233.32	228.45	223.58	218.71	213.84	208.97	204.10	199.23	194.36	189.49	184.62	179.75	174.88	170.01	165.14	160.27	155.40	150.53	145.66	140.79	135.92	131.05	126.18	121.31	116.44	111.57	106.70	101.83	96.96	92.09	87.22	82.35	77.48	72.61	67.74	62.87	58.00	53.13	48.26	43.39	38.52	33.65	28.78	23.91	19.04	14.17	9.30	4.43	-0.44	-5.57	-10.70	-15.83	-20.96	-26.09	-31.22	-36.35	-41.48	-46.61	-51.74	-56.87	-62.00	-67.13	-72.26	-77.39	-82.52	-87.65	-92.78	-97.91	-103.04	-108.17	-113.30	-118.43	-123.56	-128.69	-133.82	-138.95	-144.08	-149.21	-154.34	-159.47	-164.60	-169.73	-174.86	-180.00	-185.13	-190.26	-195.39	-200.52	-205.65	-210.78	-215.91	-221.04	-226.17	-231.30	-236.43	-241.56	-246.69	-251.82	-256.95	-262.08	-267.21	-272.34	-277.47	-282.60	-287.73	-292.86	-297.99	-303.12	-308.25	-313.38	-318.51	-323.64	-328.77	-333.90	-339.03	-344.16	-349.29	-354.42	-359.55	-364.68	-369.81	-374.94	-380.07	-385.20	-390.33	-395.46	-400.59	-405.72	-410.85	-415.98	-421.11	-426.24	-431.37	-436.50	-441.63	-446.76	-451.89	-457.02	-462.15	-467.28	-472.41	-477.54	-482.67	-487.80	-492.93	-498.06	-503.19	-508.32	-513.45	-518.58	-523.71	-528.84	-533.97	-539.10	-544.23	-549.36	-554.49	-559.62	-564.75	-569.88	-575.01	-580.14	-585.27	-590.40	-595.53	-600.66	-605.79	-610.92	-616.05	-621.18	-626.31	-631.44	-636.57	-641.70	-646.83	-651.96	-657.09	-662.22	-667.35	-672.48	-677.61	-682.74	-687.87	-693.00	-698.13	-703.26	-708.39	-713.52	-718.65	-723.78	-728.91	-734.04	-739.17	-744.30	-749.43	-754.56	-759.69	-764.82	-769.95	-775.08	-780.21	-785.34	-790.47	-795.60	-800.73	-805.86	-810.99	-816.12	-821.25	-826.38	-831.51	-836.64	-841.77	-846.90	-852.03	-857.16	-862.29	-867.42	-872.55	-877.68	-882.81	-887.94	-893.07	-898.20	-903.33	-908.46	-913.59	-918.72	-923.85	-928.98	-934.11	-939.24	-944.37	-949.50	-954.63	-959.76	-964.89	-970.02	-975.15	-980.28	-985.41	-990.54	-995.67	-1000.80	-1005.93	-1011.06	-1016.19	-1021.32	-1026.45	-1031.58	-1036.71	-1041.84	-1046.97	-1052.10	-1057.23	-1062.36	-1067.49	-1072.62	-1077.75	-1082.88	-1088.01	-1093.14	-1098.27	-1103.40	-1108.53	-1113.66	-1118.79	-1123.92	-1129.05	-1134.18	-1139.31	-1144.44	-1149.57	-1154.70	-1159.83	-1164.96	-1170.09	-1175.22	-1180.35	-1185.48	-1190.61	-1195.74	-1200.87	-1206.00	-1211.13	-1216.26	-1221.39	-1226.52	-1231.65	-1236.78	-1241.91	-1247.04	-1252.17	-1257.30	-1262.43	-1267.56	-1272.69	-1277.82	-1282.95	-1288.08	-1293.21	-1298.34	-1303.47	-1308.60	-1313.73	-1318.86	-1323.99	-1329.12	-1334.25	-1339.38	-1344.51	-1349.64	-1354.77	-1359.90	-1365.03	-1370.16	-1375.29	-1380.42	-1385.55	-1390.68	-1395.81	-1400.94	-1406.07	-1411.20	-1416.33	-1421.46	-1426.59	-1431.72	-1436.85	-1441.98	-1447.11	-1452.24	-1457.37	-1462.50	-1467.63	-1472.76	-1477.89	-1483.02	-1488.15	-1493.28	-1498.41	-1503.54	-1508.67	-1513.80	-1518.93	-1524.06	-1529.19	-1534.32	-1539.45	-1544.58	-1549.71	-1554.84	-1559.97	-1565.10	-1570.23	-1575.36	-1580.49	-1585.62	-1590.75	-1595.88	-1601.01	-1606.14	-1611.27	-1616.40	-1621.53	-1626.66	-1631.79	-1636.92	-1642.05	-1647.18	-1652.31	-1657.44	-1662.57	-1667.70	-1672.83	-1677.96	-1683.09	-1688.22	-1693.35	-1698.48	-1703.61	-1708.74	-1713.87	-1719.00	-1724.13	-1729.26	-1734.39	-1739.52	-1744.65	-1749.78	-1754.91	-1760.04	-1765.17	-1770.30	-1775.43	-1780.56	-1785.69	-1790.82	-1795.95	-1801.08	-1806.21	-1811.34	-1816.47	-1821.60	-1826.73	-1831.86	-1836.99	-1842.12	-1847.25	-1852.38	-1857.51	-1862.64	-1867.77	-1872.90	-1878.03	-1883.16	-1888.29	-1893.42	-1898.55	-1903.68	-1908.81	-1913.94	-1919.07	-1924.20	-1929.33	-1934.46	-1939.59	-1944.72	-1949.85	-1954.98	-1960.11	-1965.24	-1970.37	-1975.50	-1980.63	-1985.76	-1990.89	-1996.02	-2001.15	-2006.28	-2011.41	-2016.54	-2021.67	-2026.80	-2031.93	-2037.06	-2042.19	-2047.32	-2052.45	-2057.58	-2062.71	-2067.84	-2072.97	-2078.10	-2083.23	-2088.36	-2093.49	-2098.62	-2103.75	-2108.88	-2114.01	-2119.14	-2124.27	-2129.40	-2134.53	-2139.66	-2144.79	-2149.92	-2155.05	-2160.18	-2165.31	-2170.44	-2175.57	-2180.70	-2185.83	-2190.96	-2196.09	-2201.22	-2206.35	-2211.48	-2216.61	-2221.74	-2226.87	-2232.00	-2237.13	-2242.26	-2247.39	-2252.52	-2257.65	-2262.78	-2267.91	-2273.04	-2278.17	-2283.30	-2288.43	-2293.56	-2298.69	-2303.82	-2308.95	-2314.08	-2319.21	-2324.34	-2329.47	-2334.60	-2339.73	-2344.86	-2349.99	-2355.12	-2360.25	-2365.38	-2370.51	-2375.64	-2380.77	-2385.90	-2391.03	-2396.16	-2401.29	-2406.42	-2411.55	-2416.68	-2421.81	-2426.94	-2432.07	-2437.20	-2442.33	-2447.46	-2452.59	-2457.72	-2462.85	-2467.98	-2473.11	-2478.24	-2483.37	-2488.50	-2493.63	-2498.76	-2503.89	-2509.02	-2514.15	-2519.28	-2524.41	-2529.54	-2534.67	-2539.80	-2544.93	-2550.06	-2555.19	-2560.32	-2565.45	-2570.58	-2575.71	-2580.84	-2585.97	-2591.10	-2596.23	-2601.36	-2606.49	-2611.62	-2616.75	-2621.88	-2627.01	-2632.14	-2637.27	-2642.40	-2647.53	-2652.66	-2657.79	-2662.92	-2668.05	-2673.18	-2678.31	-2683.44	-2688.57	-2693.70	-2698.83	-2703.96	-2709.09	-2714.22	-2719.35	-2724.48	-2729.61	-2734.74	-2739.87	-2745.00	-2750.13	-2755.26	-2760.39	-2765.52	-2770.65	-2775.78	-2780.91	-2786.04	-2791.17	-2796.30	-2801.43	-2806.56	-2811.69	-2816.82	-2821.95	-2827.08	-2832.21	-2837.34	-2842.47	-2847.60	-2852.73	-2857.86	-2862.99	-2868.12	-2873.25	-2878.38	-2883.51	-2888.64	-2893.77	-2898.90	-2904.03	-2909.16	-2914.29	-2919.42	-2924.55	-2929.68	-2934.81	-2939.94	-2945.07	-2950.20	-2955.33	-2960.46	-2965.59	-2970.72	-2975.85	-2980.98	-2986.11	-2991.24	-2996.37	-3001.50	-3006.63	-3011.76	-3016.89	-3022.02	-3027.15	-3032.28	-3037.41	-3042.54	-3047.67	-3052.80	-3057.93	-3063.06	-3068.19	-3073.32	-3078.45	-3083.58	-3088.71	-3093.84	-3098.97	-3104.10	-3109.23	-3114.36	-3119.49	-3124.62	-3129.75	-3134.88	-3139.91	-3145.04	-3150.17	-3155.30	-3160.43	-3165.56	-3170.69	-3175.82	-3180.95	-3186.08	-3191.21	-3196.34	-3201.47	-3206.60	-3211.73	-3216.86	-3221.99	-3227.12	-3232.25	-3237.38	-3242.51	-3247.64	-3252.77	-3257.90	-3263.03	-3268.16	-3273.29	-3278.42	-3283.55	-3288.68	-3293.81	-3298.94	-3304.07	-3309.20	-3314.33	-3319.46	-3324.59	-3329.72	-3334.85	-3339.98	-3345.11	-3350.24	-3355.37	-3360.50	-3365.63	-3370.76	-3375.89	-3381.02	-3386.15	-3391.28	-3396.41	-3401.54	-3406.67	-3411.80	-3416.93	-3422.06	-3427.19	-3432.32	-3437.45	-3442.58	-3447.71	-3452.84	-3457.97	-3463.10	-3468.23	-3473.36	-3478.49	-3483.62	-3488.75	-3493.88	-3499.01	-3504.14	-3509.27	-3514.40	-3519.53	-3524.66	-3529.79	-3534.92	-3540.05	-3545.18	-3550.31	-3555.44	-3560.57	-3565.70	-3570.83	-3575.96	-3581.09	-3586.22	-3591.35	-3596.48	-3601.61	-3606.74	-3611.87	-3617.00	-3622.13	-3627.26	-3632.39	-3637.52	-3642.65	-3647.78	-3652.91	-3658.04	-3663.17	-3668.30	-3673.43	-3678.56	-3683.69	-3688.82	-3693.95	-3699.08	-3704.21	-3709.34	-3714.47	-3719.60	-3724.73	-3729.86	-3734.99	-3740.12	-3745.25	-3750.38	-3755.51	-3760.64	-3765.77	-3770.90	-3776.03	-3781.16	-3786.29	-3791.42	-3796.55	-3801.68	-3806.81	-3811.94	-3817.07	-3822.20	-3827.33	-3832.46	-3837.59	-3842.72	-3847.85	-3852.98	-3858.11	-3863.24	-3868.37	-3873.50	-3878.63	-3883.76	-3888.89	-3894.02	-3899.15	-3904.28	-3909.41	-3914.54	-3919.67	-3924.80	-3929.93	-3935.06	-3940.19	-3945.32	-3950.45	-3955.58	-3960.71	-3965.84	-3970.97	-3976.10	-3981.23	-3986.36	-3991.49	-3996.62	-4001.75	-4006.88	-4012.01	-4017.14	-4022.27	-4027.40	-4032.53	-4037.66	-4042.79	-4047.92	-4053.05	-4058.18	-4063.31
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DATUM

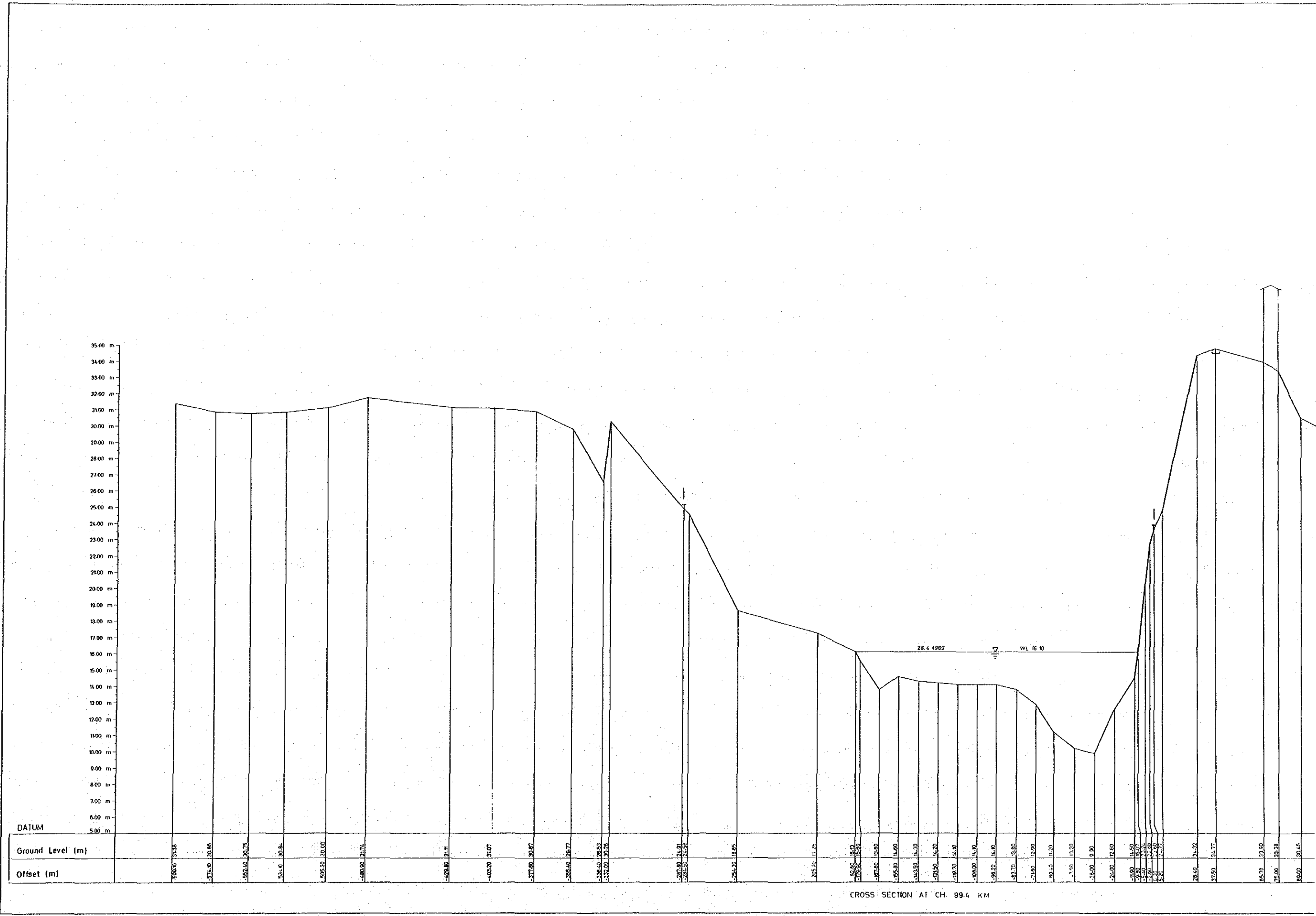
Ground Level (m)

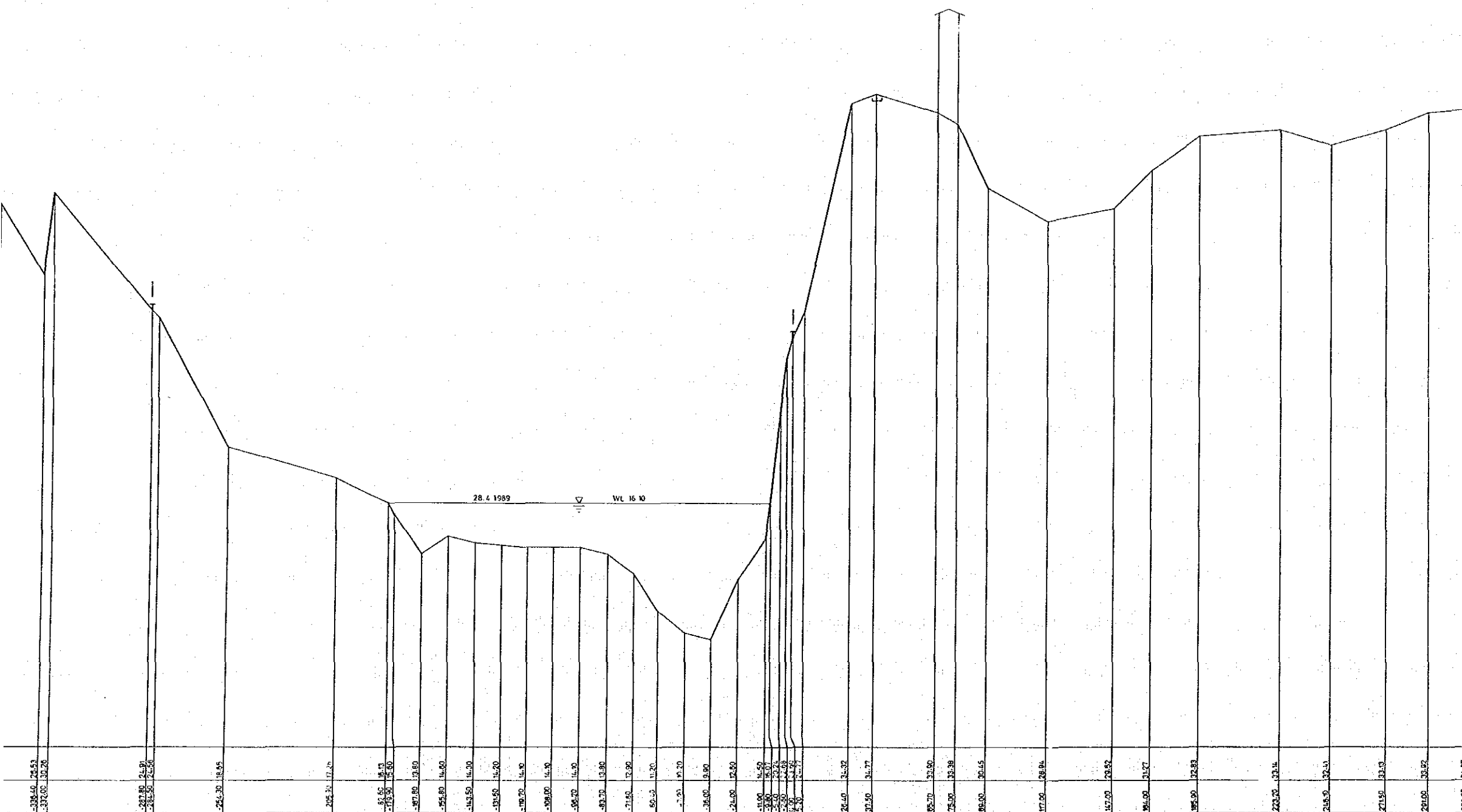
Offset (m)

300.00	31.00	570.00	29.28	558.50	28.30	537.70	28.20	517.70	28.24	493.60	28.54	472.50	29.43	451.40	30.59	431.00	30.43	409.00	30.08	388.00	29.63	370.00	29.08	348.00	24.87	327.10	24.72	291.00	20.35	248.20	18.61	192.80	17.27	170.00	16.50	148.70	16.03	131.50	15.74	111.40	15.54	111.70	13.84	106.30	12.74	87.00	11.51	75.00	11.04	68.30	10.14	50.20	9.24	37.40	8.74	25.40	9.54	13.00	12.34	11.50	14.06	7.00	22.77	11.20	21.33	20.50	31.20	28.95	25.53	40.00	32.94	35.50	32.04	61.00	32.77	98.50	31.38	70.00	31.27
--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------	------	-------	------	-------	-------	-------	-------	------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

28.4.1989 WL 16.04

CROSS SECTION AT CH. 99.2 KM

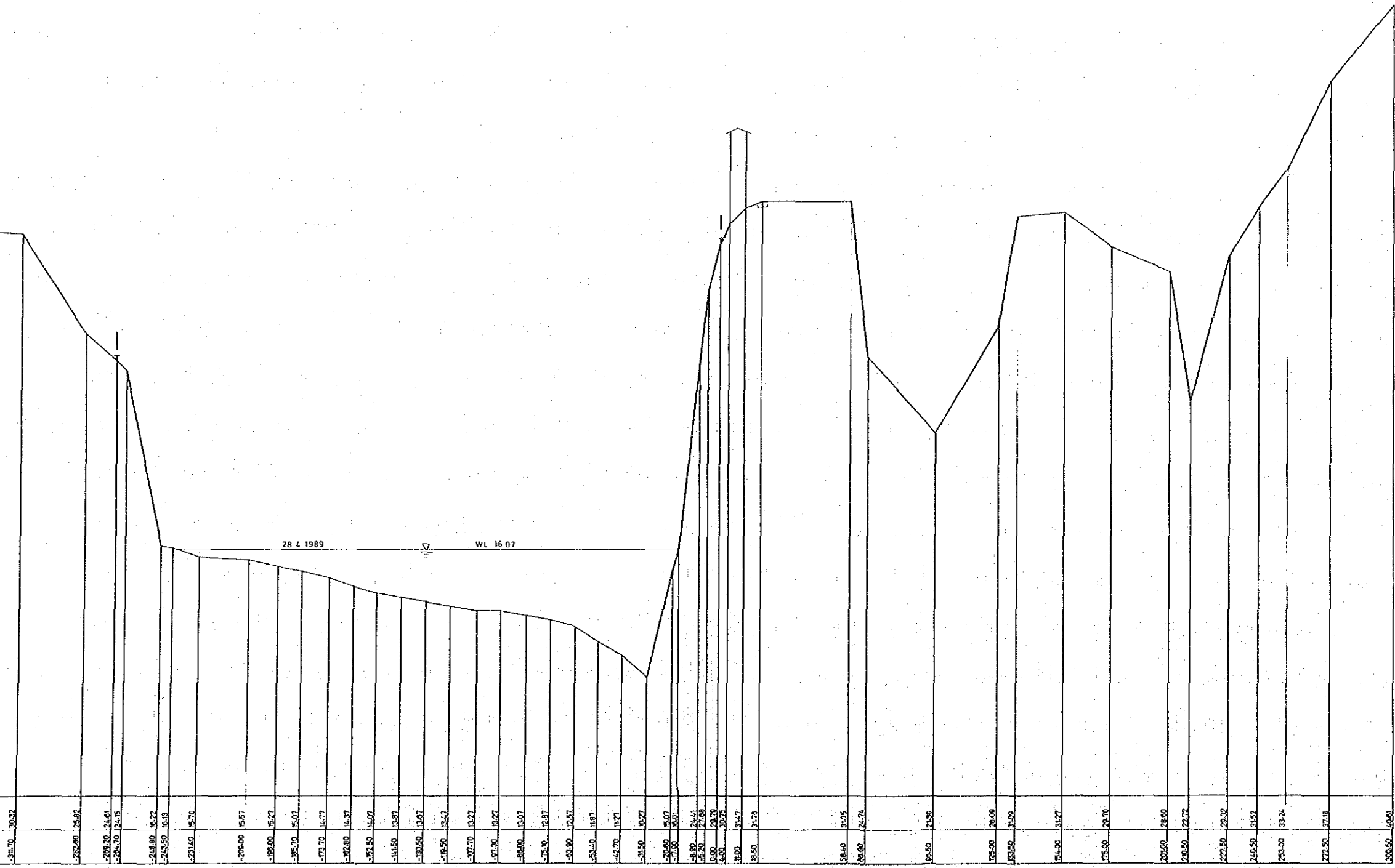




CROSS SECTION AT CH. 99.4 KM

- REMARKS
- ↑ HOUSE
 - T T.B.M.
 - I RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION	
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN	
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)	
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyor)	
SECTION	From TBM NO. KL 12-99.4 KM to TBM NO. KL --- KM
SHEET NO.	93/108
DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000 Vertical : 1 / 100



28.4.1989 WL 16.07

- REMARKS :
- U . HOUSE
 - I . IBM
 - | . RIVER WIDTH
 - - . ROAD or PATH
 - O.C.S. . OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION	From IBM No. KL 12-99.6 KM to IBM No. KL --- KM		
SHEET NO.	94/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal . 1 / 1000	Vertical . 1 / 100	

CROSS SECTION AT CH. 99.6 KM

45.00 m
44.00 m
43.00 m
42.00 m
41.00 m
40.00 m
39.00 m
38.00 m
37.00 m
36.00 m
35.00 m
34.00 m
33.00 m
32.00 m
31.00 m
30.00 m
29.00 m
28.00 m
27.00 m
26.00 m
25.00 m
24.00 m
23.00 m
22.00 m
21.00 m
20.00 m
19.00 m
18.00 m
17.00 m
16.00 m
15.00 m
14.00 m
13.00 m
12.00 m
11.00 m
10.00 m
9.00 m
8.00 m
7.00 m
6.00 m
5.00 m

DATUM

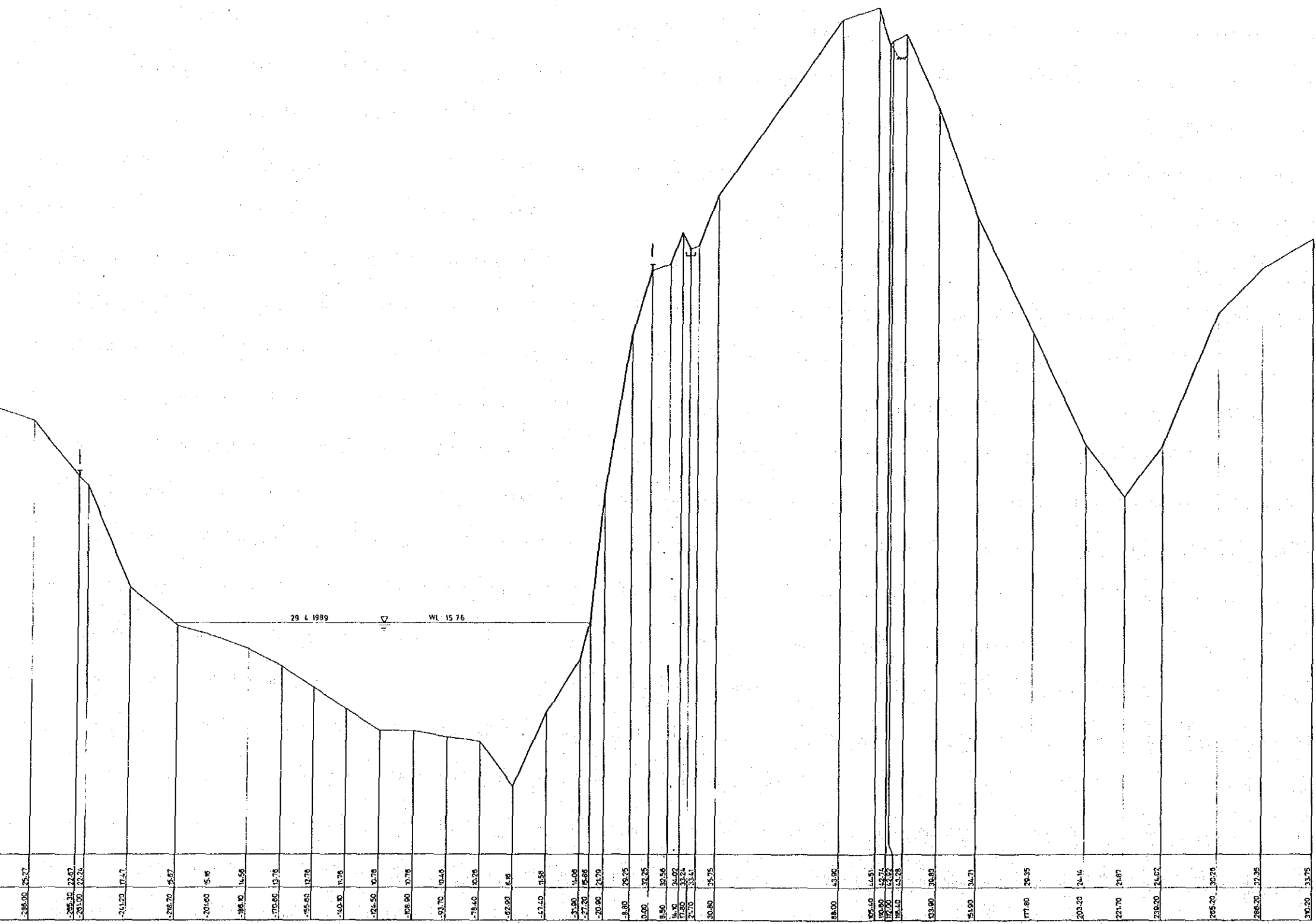
Ground Level (m)

Offset (m)

308.50	312.7	316.7	320.7	324.7	328.7	332.7	336.7	340.7	344.7	348.7	352.7	356.7	360.7	364.7	368.7	372.7	376.7	380.7	384.7	388.7	392.7	396.7	400.7	404.7	408.7	412.7	416.7	420.7	424.7	428.7	432.7	436.7	440.7	444.7	448.7	452.7	456.7	460.7	464.7	468.7	472.7	476.7	480.7	484.7	488.7	492.7	496.7	500.7	504.7	508.7	512.7	516.7	520.7	524.7	528.7	532.7	536.7	540.7	544.7	548.7	552.7	556.7	560.7	564.7	568.7	572.7	576.7	580.7	584.7	588.7	592.7	596.7	600.7	604.7	608.7	612.7	616.7	620.7	624.7	628.7	632.7	636.7	640.7	644.7	648.7	652.7	656.7	660.7	664.7	668.7	672.7	676.7	680.7	684.7	688.7	692.7	696.7	700.7	704.7	708.7	712.7	716.7	720.7	724.7	728.7	732.7	736.7	740.7	744.7	748.7	752.7	756.7	760.7	764.7	768.7	772.7	776.7	780.7	784.7	788.7	792.7	796.7	800.7	804.7	808.7	812.7	816.7	820.7	824.7	828.7	832.7	836.7	840.7	844.7	848.7	852.7	856.7	860.7	864.7	868.7	872.7	876.7	880.7	884.7	888.7	892.7	896.7	900.7	904.7	908.7	912.7	916.7	920.7	924.7	928.7	932.7	936.7	940.7	944.7	948.7	952.7	956.7	960.7	964.7	968.7	972.7	976.7	980.7	984.7	988.7	992.7	996.7	1000.7
308.50	312.7	316.7	320.7	324.7	328.7	332.7	336.7	340.7	344.7	348.7	352.7	356.7	360.7	364.7	368.7	372.7	376.7	380.7	384.7	388.7	392.7	396.7	400.7	404.7	408.7	412.7	416.7	420.7	424.7	428.7	432.7	436.7	440.7	444.7	448.7	452.7	456.7	460.7	464.7	468.7	472.7	476.7	480.7	484.7	488.7	492.7	496.7	500.7	504.7	508.7	512.7	516.7	520.7	524.7	528.7	532.7	536.7	540.7	544.7	548.7	552.7	556.7	560.7	564.7	568.7	572.7	576.7	580.7	584.7	588.7	592.7	596.7	600.7	604.7	608.7	612.7	616.7	620.7	624.7	628.7	632.7	636.7	640.7	644.7	648.7	652.7	656.7	660.7	664.7	668.7	672.7	676.7	680.7	684.7	688.7	692.7	696.7	700.7	704.7	708.7	712.7	716.7	720.7	724.7	728.7	732.7	736.7	740.7	744.7	748.7	752.7	756.7	760.7	764.7	768.7	772.7	776.7	780.7	784.7	788.7	792.7	796.7	800.7	804.7	808.7	812.7	816.7	820.7	824.7	828.7	832.7	836.7	840.7	844.7	848.7	852.7	856.7	860.7	864.7	868.7	872.7	876.7	880.7	884.7	888.7	892.7	896.7	900.7	904.7	908.7	912.7	916.7	920.7	924.7	928.7	932.7	936.7	940.7	944.7	948.7	952.7	956.7	960.7	964.7	968.7	972.7	976.7	980.7	984.7	988.7	992.7	996.7	1000.7

29 4 1989 WL 15.76

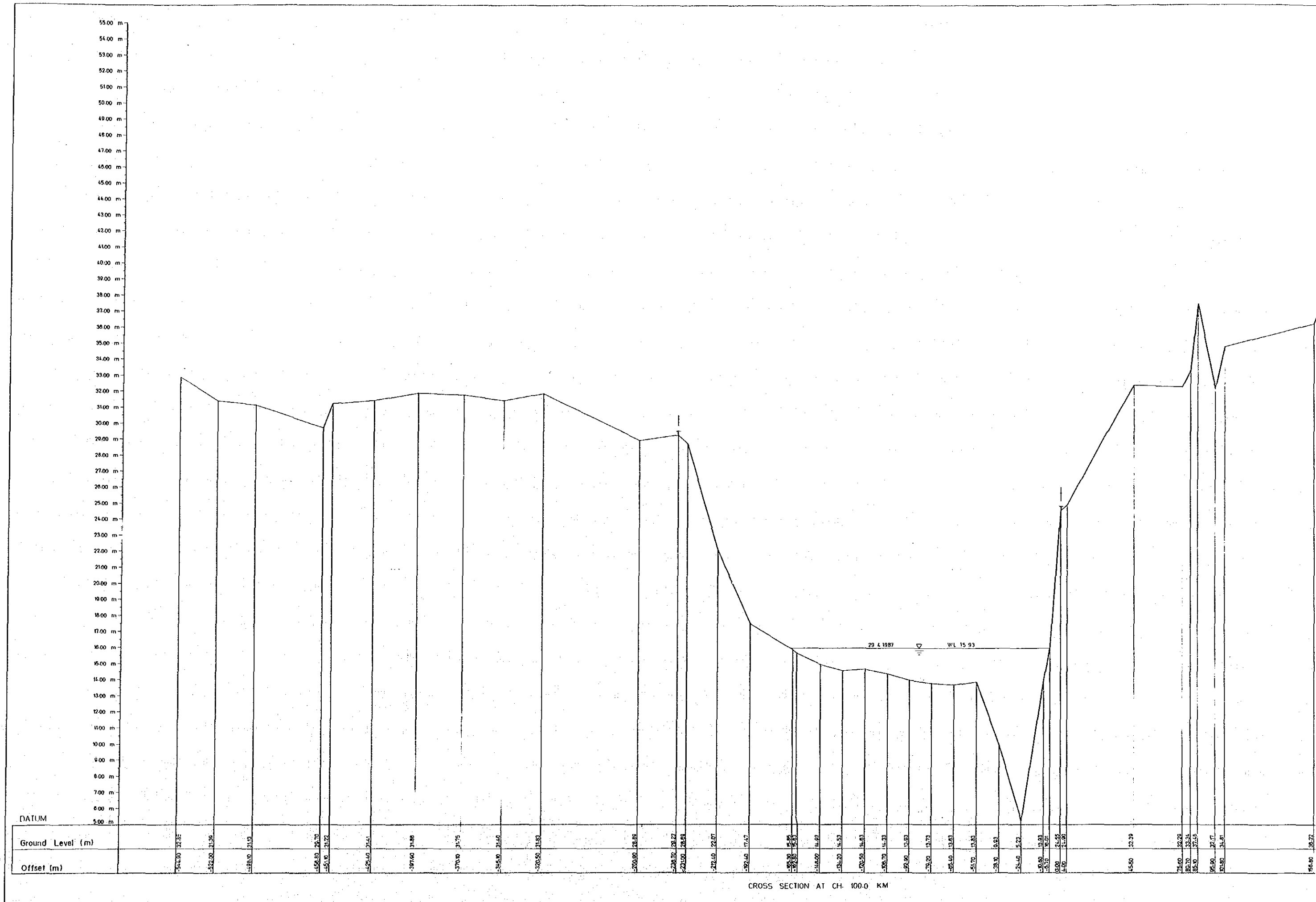
CROSS SECTION AT CH. 99.8 KM

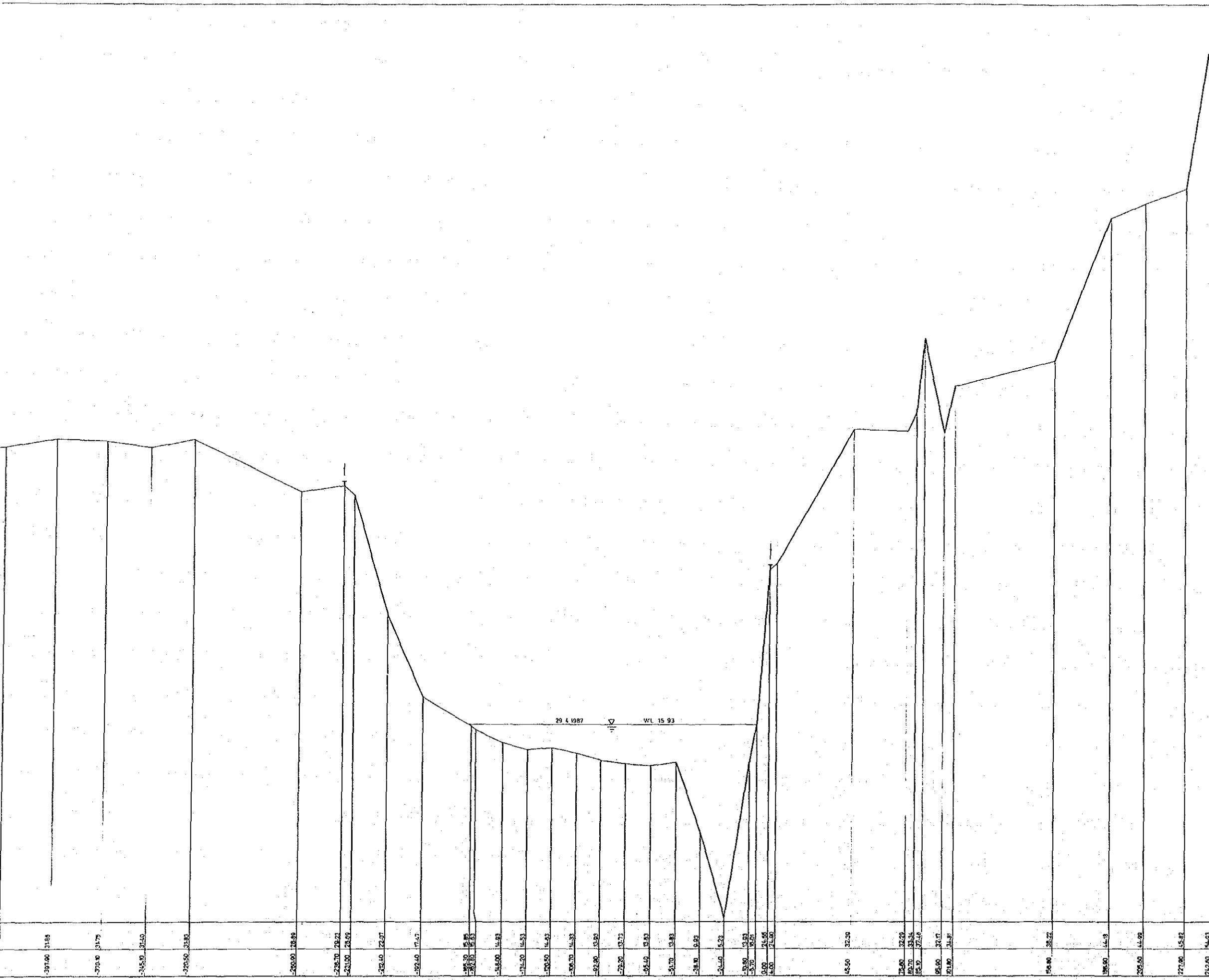


CROSS SECTION AT CH. 99.8 KM

- REMARKS
- ↑ HOUSE
 - | TBM
 - RIVER WIDTH
 - ROAD or PATH
 - GRI CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION	
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN	
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)	
KAJIAN KOKUSAI SDN. BHD. (Consolidated Surveyors)	
SECTION	From TBM NO. KL 12-99.8 KM to TBM NO. RL --- KM
SHEET NO.	95/108
DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000 Vertical : 1 / 100

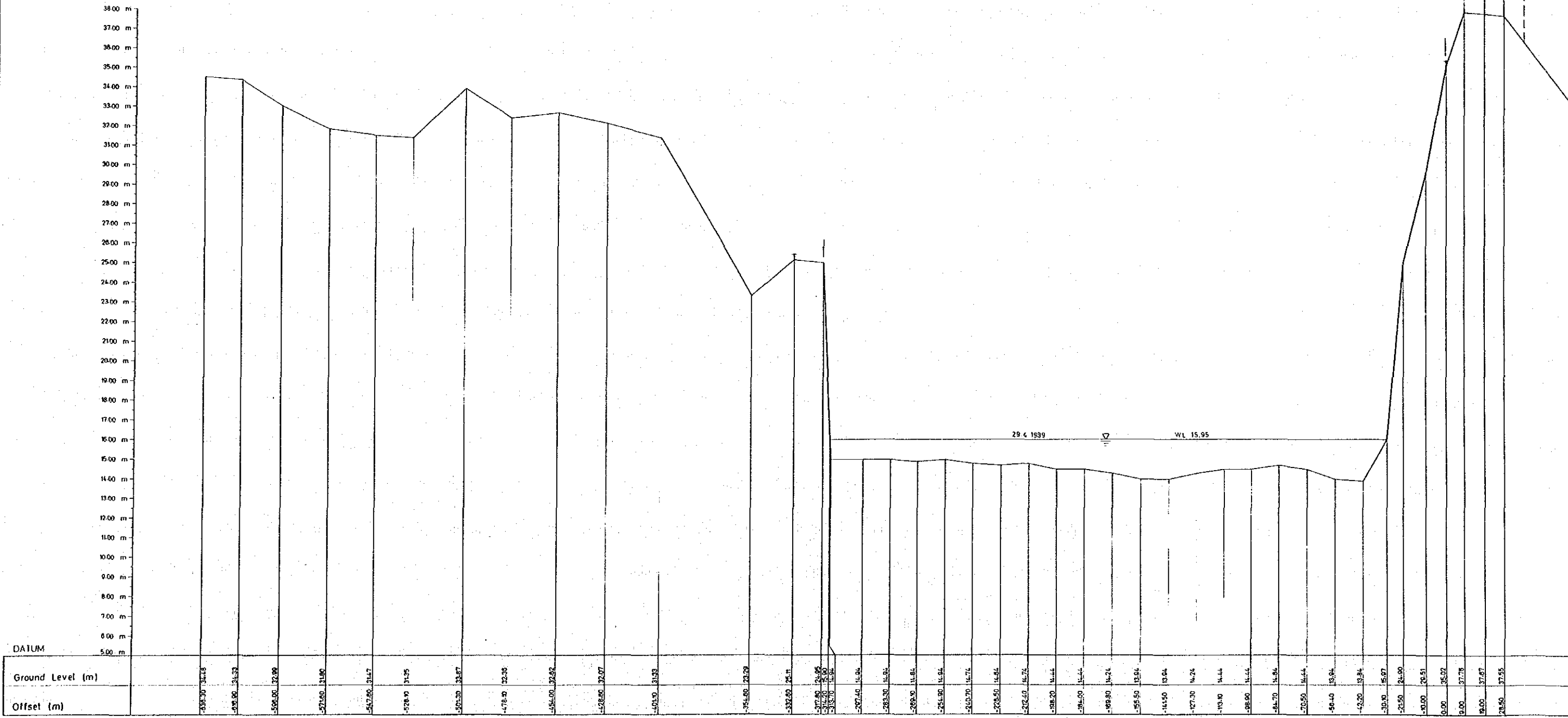




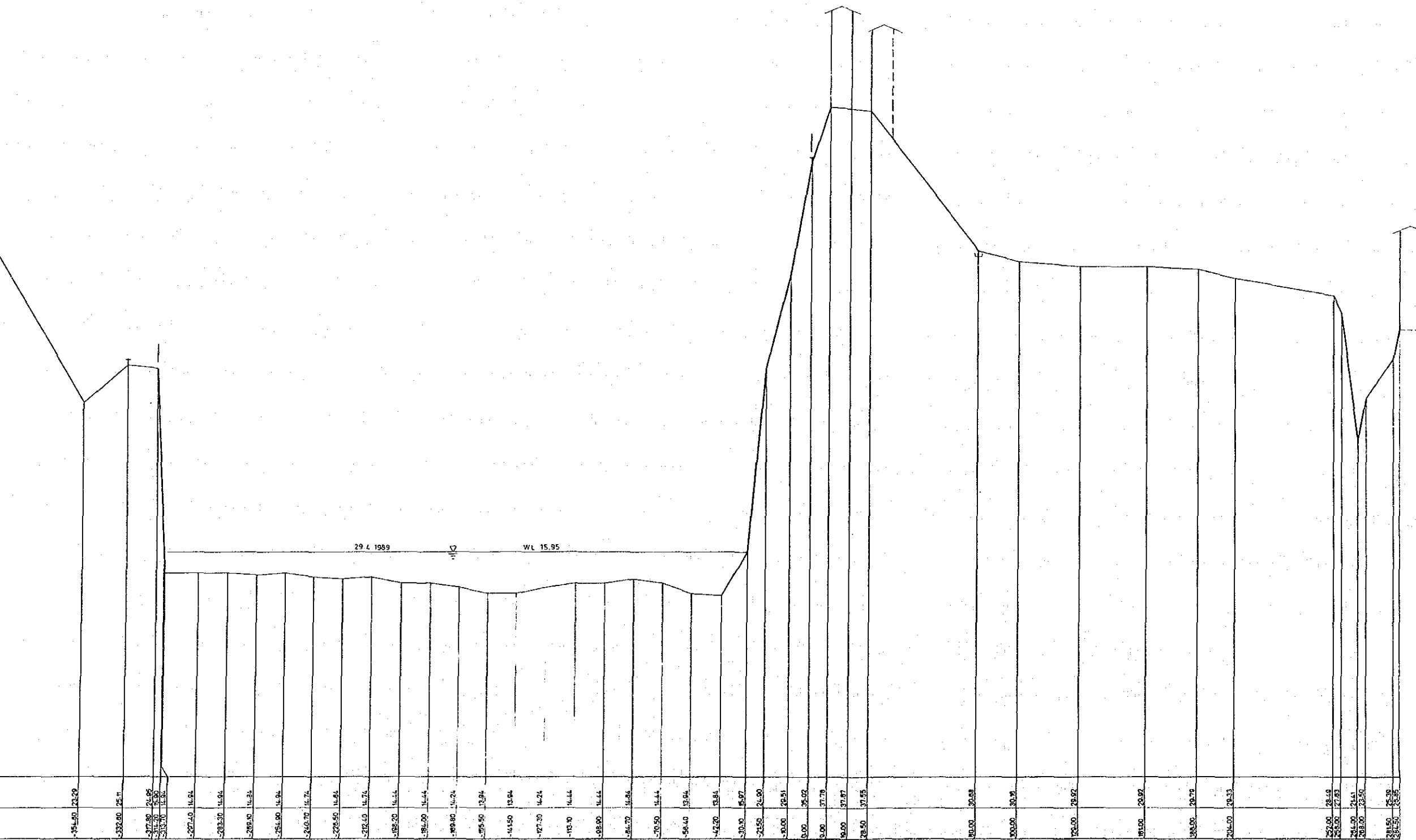
CROSS SECTION AT CH. 100.0 KM

- REMARKS :
- ↑ HOUSE
 - T TBM
 - | RIVER WIDTH
 - ~ ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION	
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN	
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)	
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyor)	
SECTION	From TBM NO. KL 12-100.0 KM To TBM NO. KL --- KM
SHEET NO.	96/108
DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000 Vertical : 1 / 100



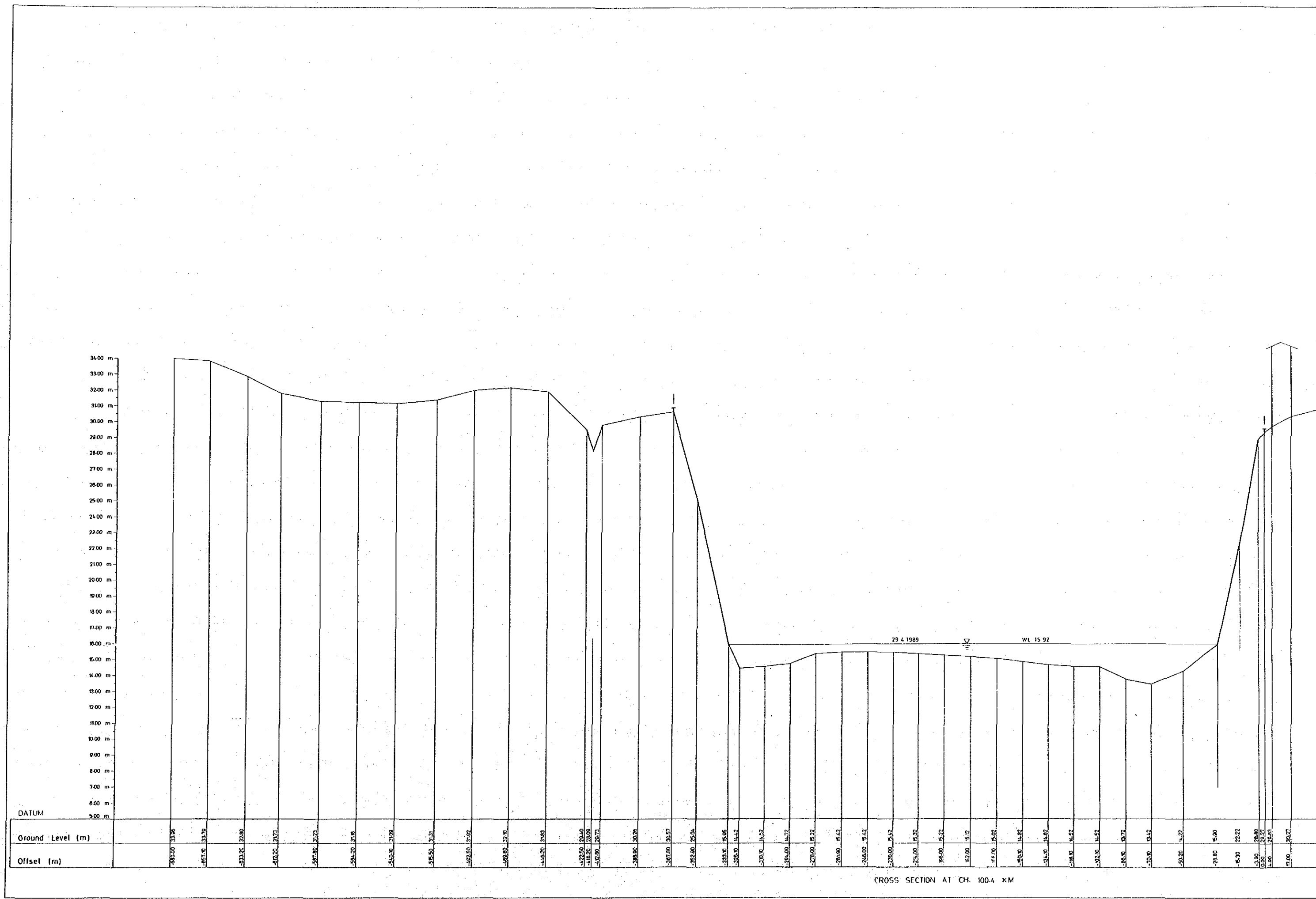
CROSS SECTION AT CH. 100.2 KM



CROSS SECTION AT CH. 100.2 KM

- REMARKS :
- ↑ HOUSE
 - T TBM
 - I RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

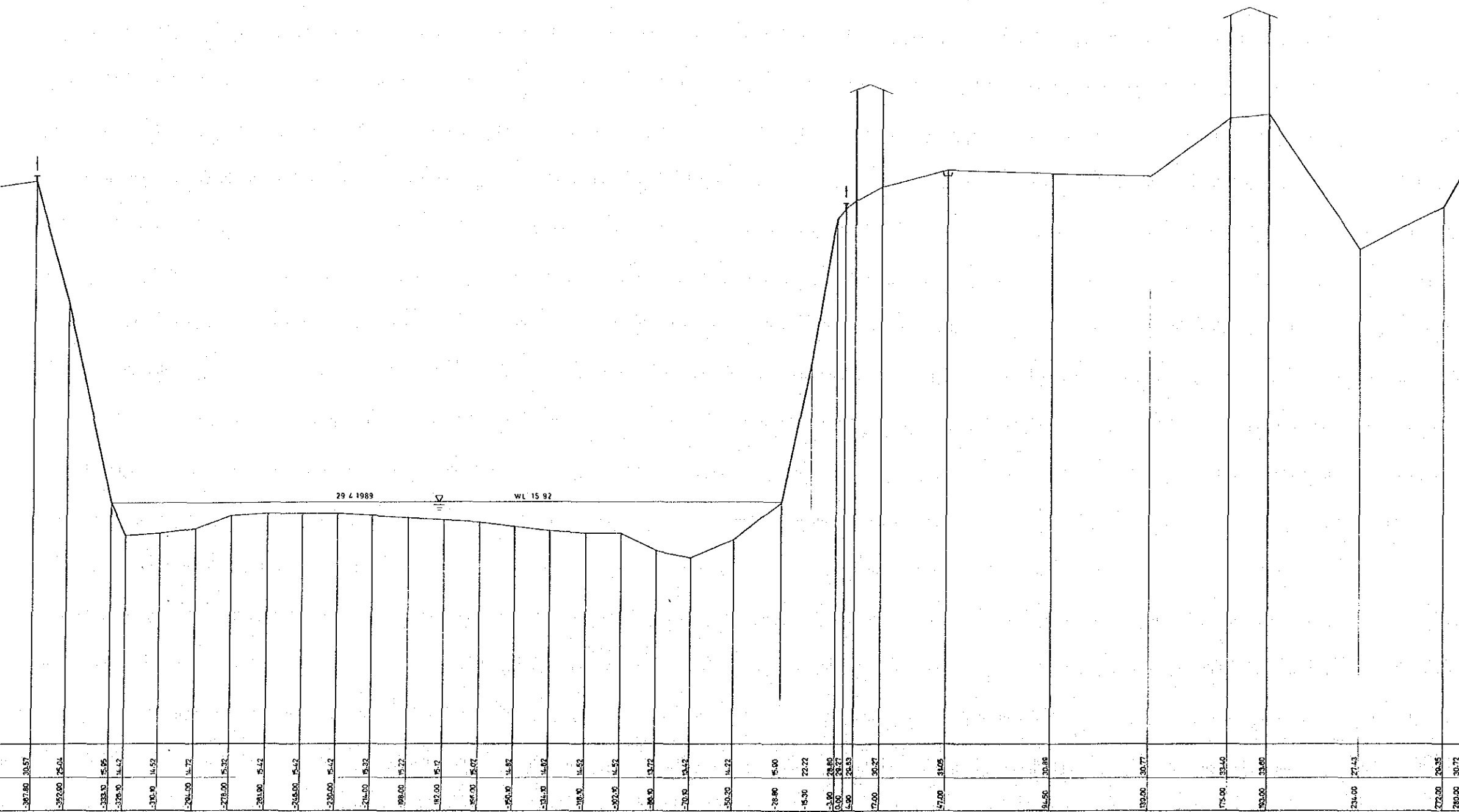
STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNJAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Services)			
SECTION	From IBM NO. N. 12 - 100.2 KM to IBM NO. N. 11 - - - KM		
SHEET NO.	97/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000	Vertical : 1 / 100	



DATUM
 Ground Level (m)
 Offset (m)

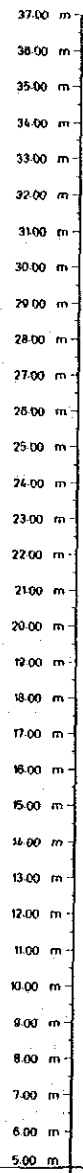
0.00	33.96
0.50	33.79
1.00	32.80
1.50	31.73
2.00	31.20
2.50	31.18
3.00	31.09
3.50	31.31
4.00	31.97
4.50	32.25
5.00	31.93
5.50	29.40
6.00	28.76
6.50	28.73
7.00	30.76
7.50	30.57
8.00	25.04
8.50	14.95
9.00	14.12
9.50	14.52
10.00	14.72
10.50	15.52
11.00	15.42
11.50	15.12
12.00	15.12
12.50	15.02
13.00	14.92
13.50	14.52
14.00	14.52
14.50	14.92
15.00	15.72
15.50	15.72
16.00	15.90
16.50	22.72
17.00	28.80
17.50	28.72
18.00	28.93
18.50	30.27

CROSS SECTION AT CH. 100.4 KM



- REMARKS .
- ↑ HOUSE
 - T TBM
 - I RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Engineers)			
SECTION	From IBM No. KL 12-100.4 KM To IBM No. KL --- KM		
SHEET NO	98/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 : 1,000	Vertical : 1 : 100	

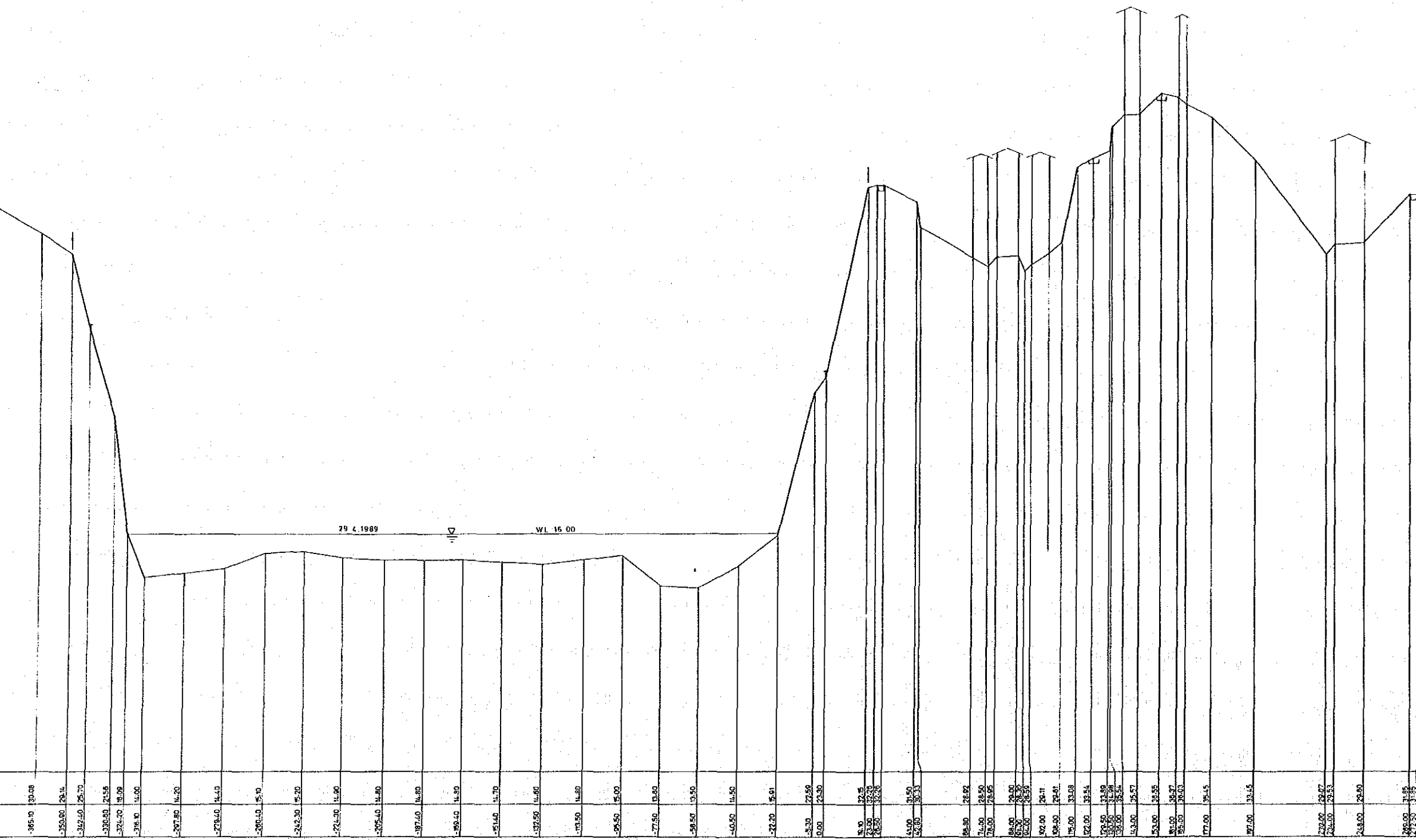


DATUM

Ground Level (m)	Offset (m)
30.250	29.33
30.000	30.82
32.250	32.89
34.500	34.79
34.500	33.94
32.500	37.44
31.500	31.70
31.500	31.57
31.500	31.70
31.000	31.05
31.000	31.33
30.000	30.08
29.000	28.14
25.000	25.70
21.500	21.58
18.000	18.09
14.000	14.00
14.000	14.20
14.000	14.40
14.000	14.60
14.000	14.80
14.000	15.00
14.000	15.20
14.000	15.40
14.000	15.60
14.000	15.80
14.000	16.00
14.000	16.20
14.000	16.40
14.000	16.60
14.000	16.80
14.000	17.00
14.000	17.20
14.000	17.40
14.000	17.60
14.000	17.80
14.000	18.00
14.000	18.20
14.000	18.40
14.000	18.60
14.000	18.80
14.000	19.00
14.000	19.20
14.000	19.40
14.000	19.60
14.000	19.80
14.000	20.00
14.000	20.20
14.000	20.40
14.000	20.60
14.000	20.80
14.000	21.00
14.000	21.20
14.000	21.40
14.000	21.60
14.000	21.80
14.000	22.00
14.000	22.20
14.000	22.40
14.000	22.60
14.000	22.80
14.000	23.00
14.000	23.20
14.000	23.40
14.000	23.60
14.000	23.80
14.000	24.00
14.000	24.20
14.000	24.40
14.000	24.60
14.000	24.80
14.000	25.00
14.000	25.20
14.000	25.40
14.000	25.60
14.000	25.80
14.000	26.00
14.000	26.20
14.000	26.40
14.000	26.60
14.000	26.80
14.000	27.00
14.000	27.20
14.000	27.40
14.000	27.60
14.000	27.80
14.000	28.00
14.000	28.20
14.000	28.40
14.000	28.60
14.000	28.80
14.000	29.00
14.000	29.20
14.000	29.40
14.000	29.60
14.000	29.80
14.000	30.00
14.000	30.20
14.000	30.40
14.000	30.60
14.000	30.80
14.000	31.00
14.000	31.20
14.000	31.40
14.000	31.60
14.000	31.80
14.000	32.00
14.000	32.20
14.000	32.40
14.000	32.60
14.000	32.80
14.000	33.00
14.000	33.20
14.000	33.40
14.000	33.60
14.000	33.80
14.000	34.00
14.000	34.20
14.000	34.40
14.000	34.60
14.000	34.80
14.000	35.00
14.000	35.20
14.000	35.40
14.000	35.60
14.000	35.80
14.000	36.00
14.000	36.20
14.000	36.40
14.000	36.60
14.000	36.80
14.000	37.00

29 x 1989 WL 15.00

CROSS SECTION AT CH. 100.6 KM

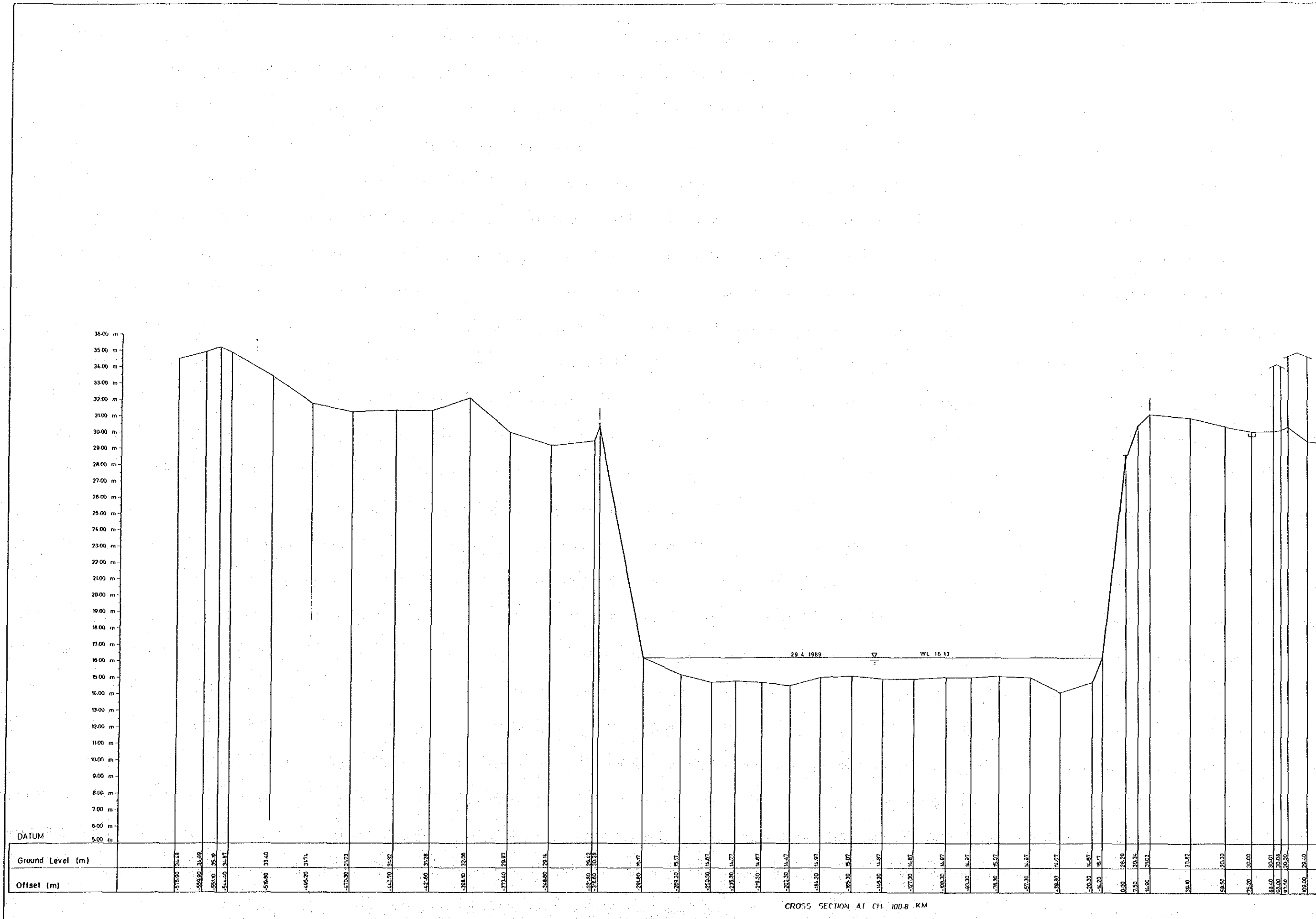


29.4.1989 WL 16.00

CROSS SECTION AT CH. 100.6 KM

- REMARKS :
- ↑ HOUSE
 - T TBM
 - I RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Engineers)			
SECTION	From IBM NO. KL 17 - 100.6 KM To IBM NO. KL --- KM		
SHEET NO.	99/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000		Vertical : 1 / 100



DATUM

Ground Level (m)

Offset (m)

36.00 m
35.00 m
34.00 m
33.00 m
32.00 m
31.00 m
30.00 m
29.00 m
28.00 m
27.00 m
26.00 m
25.00 m
24.00 m
23.00 m
22.00 m
21.00 m
20.00 m
19.00 m
18.00 m
17.00 m
16.00 m
15.00 m
14.00 m
13.00 m
12.00 m
11.00 m
10.00 m
9.00 m
8.00 m
7.00 m
6.00 m
5.00 m

-576.00	34.23
-555.00	34.89
-535.00	35.29
-514.00	34.87
-494.00	33.40
-475.00	31.74
-457.00	31.23
-442.00	31.32
-421.00	31.28
-402.00	32.08
-371.00	29.07
-344.00	29.14
-315.00	29.47
-288.00	16.17
-269.00	15.17
-250.00	14.87
-235.00	14.77
-219.00	14.87
-202.00	14.42
-184.00	14.87
-165.00	15.07
-148.00	14.87
-131.00	14.87
-118.00	14.87
-103.00	14.97
-86.00	15.07
-70.00	14.87
-50.00	14.87
-35.00	14.07
-20.00	14.87
-12.00	15.17
0.00	28.28
25.00	30.24
44.00	31.03
68.00	30.87
92.00	30.60
105.00	29.10

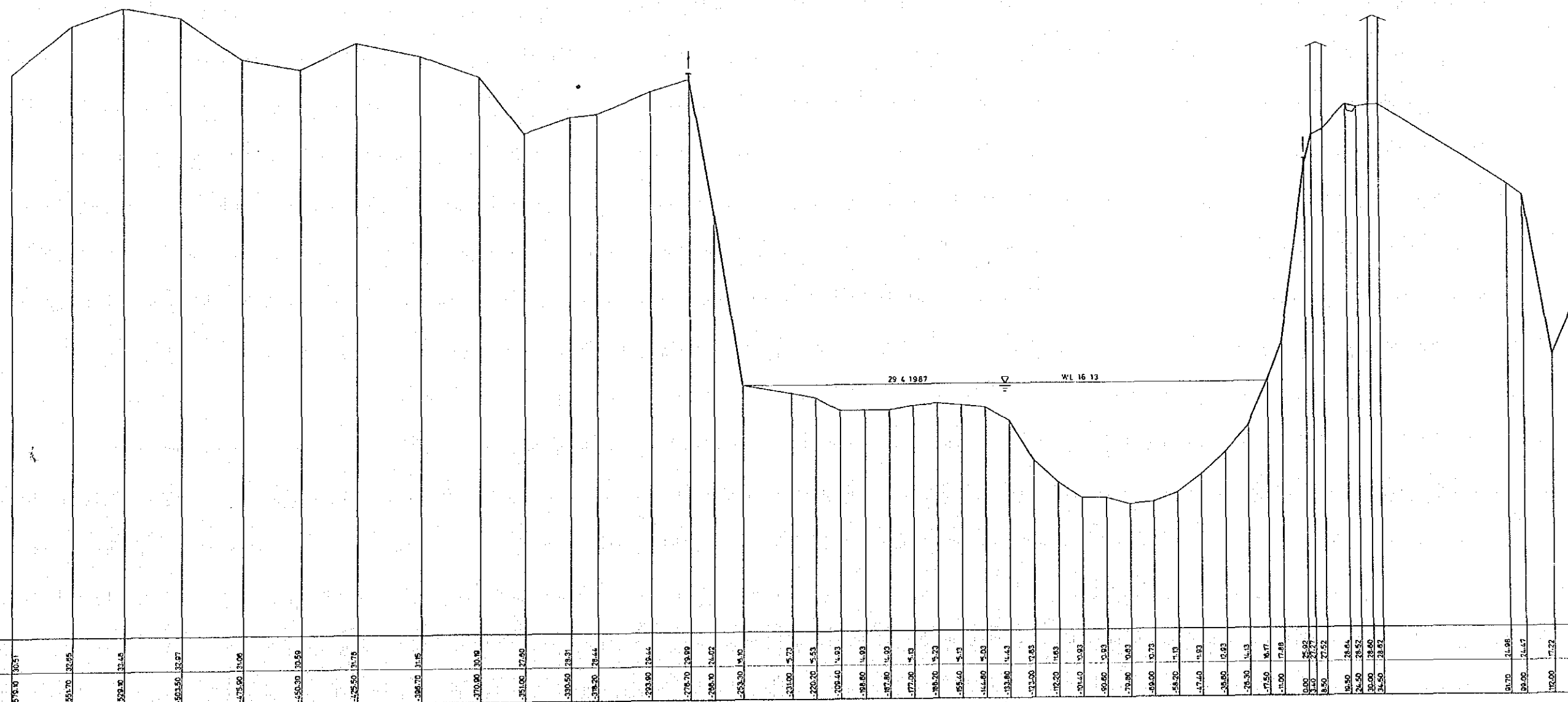
CROSS SECTION AT CH. 100.8 KM

34.00 m
33.00 m
32.00 m
31.00 m
30.00 m
29.00 m
28.00 m
27.00 m
26.00 m
25.00 m
24.00 m
23.00 m
22.00 m
21.00 m
20.00 m
19.00 m
18.00 m
17.00 m
16.00 m
15.00 m
14.00 m
13.00 m
12.00 m
11.00 m
10.00 m
9.00 m
8.00 m
7.00 m
6.00 m
5.00 m

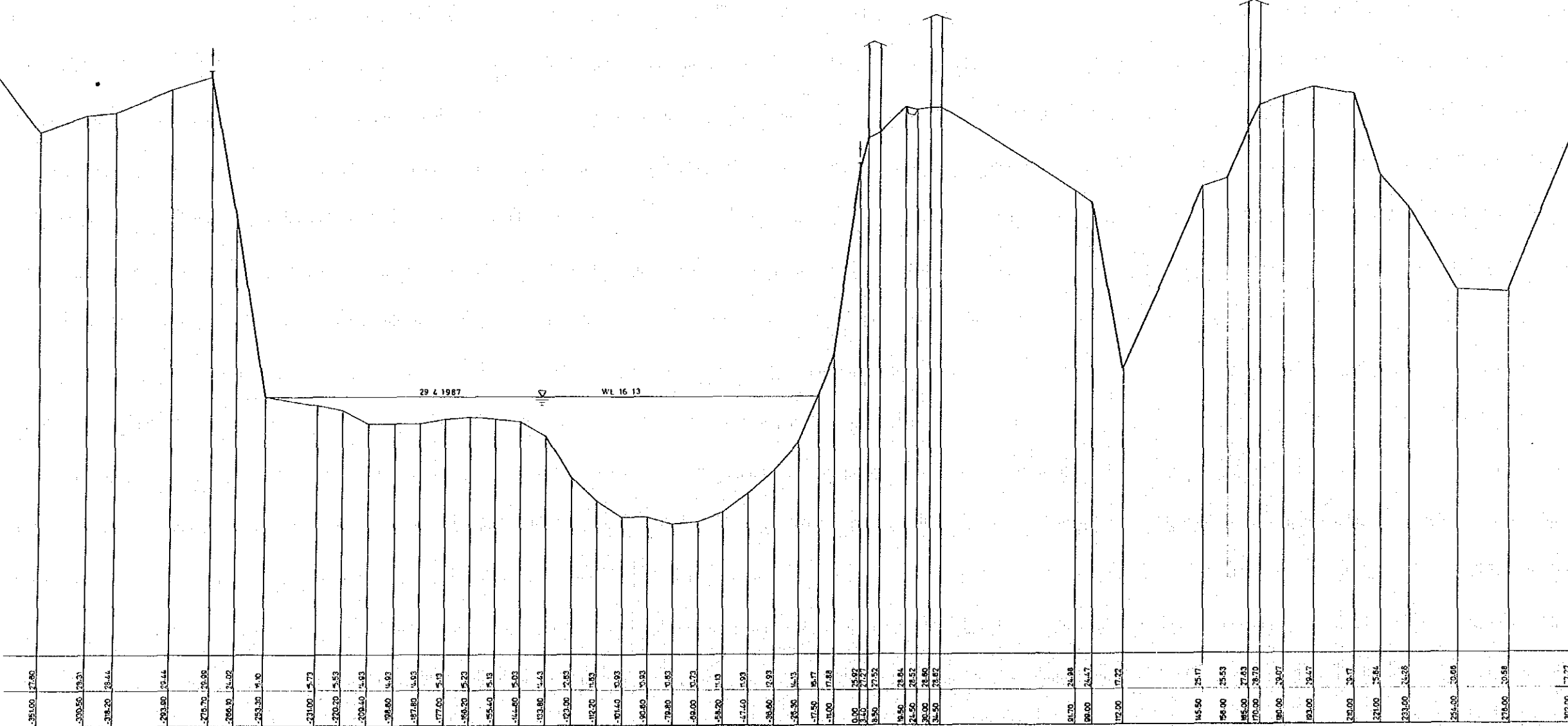
DATUM

Ground Level (m)

Offset (m)

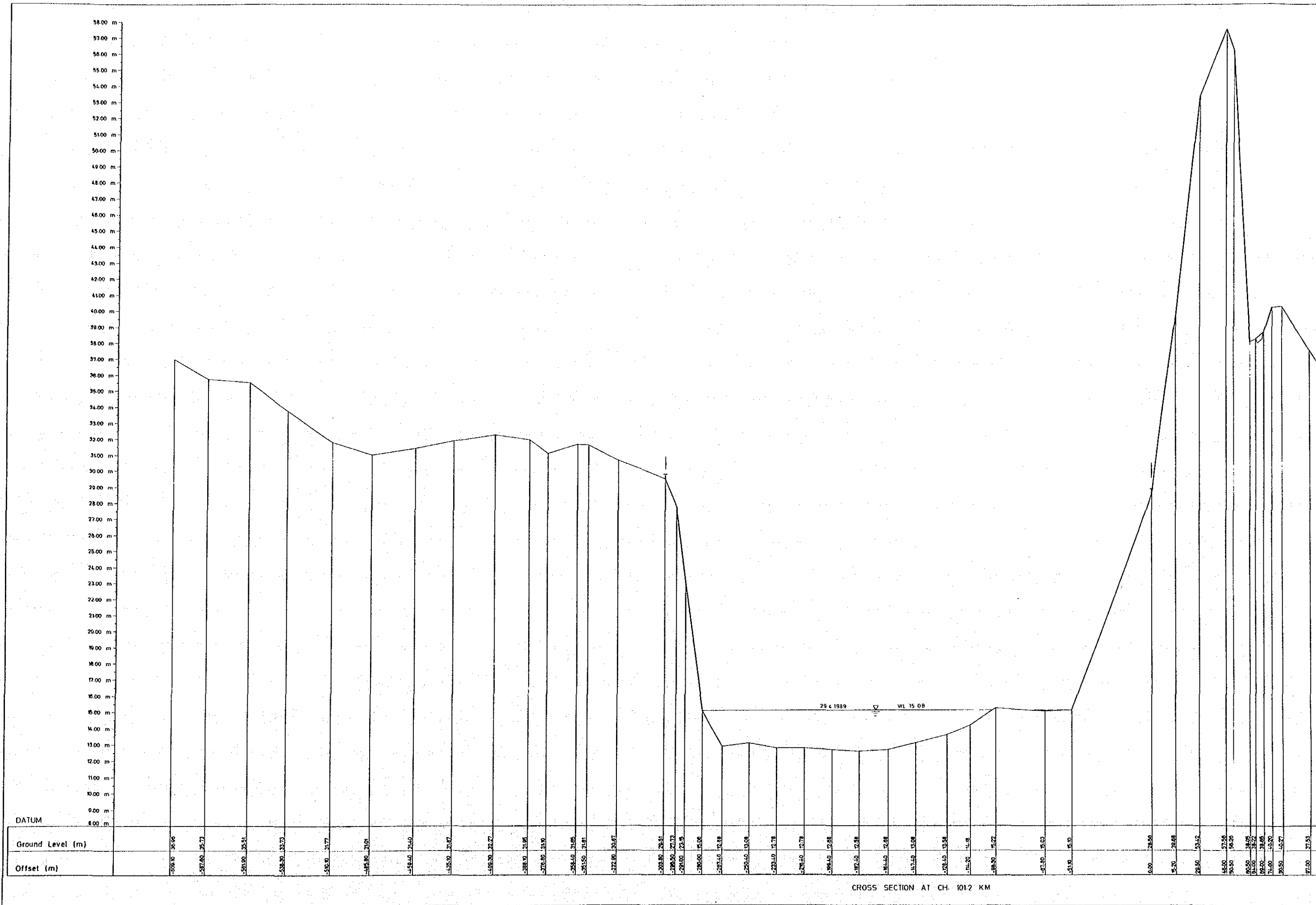


CROSS SECTION AT CH. 1010 KM

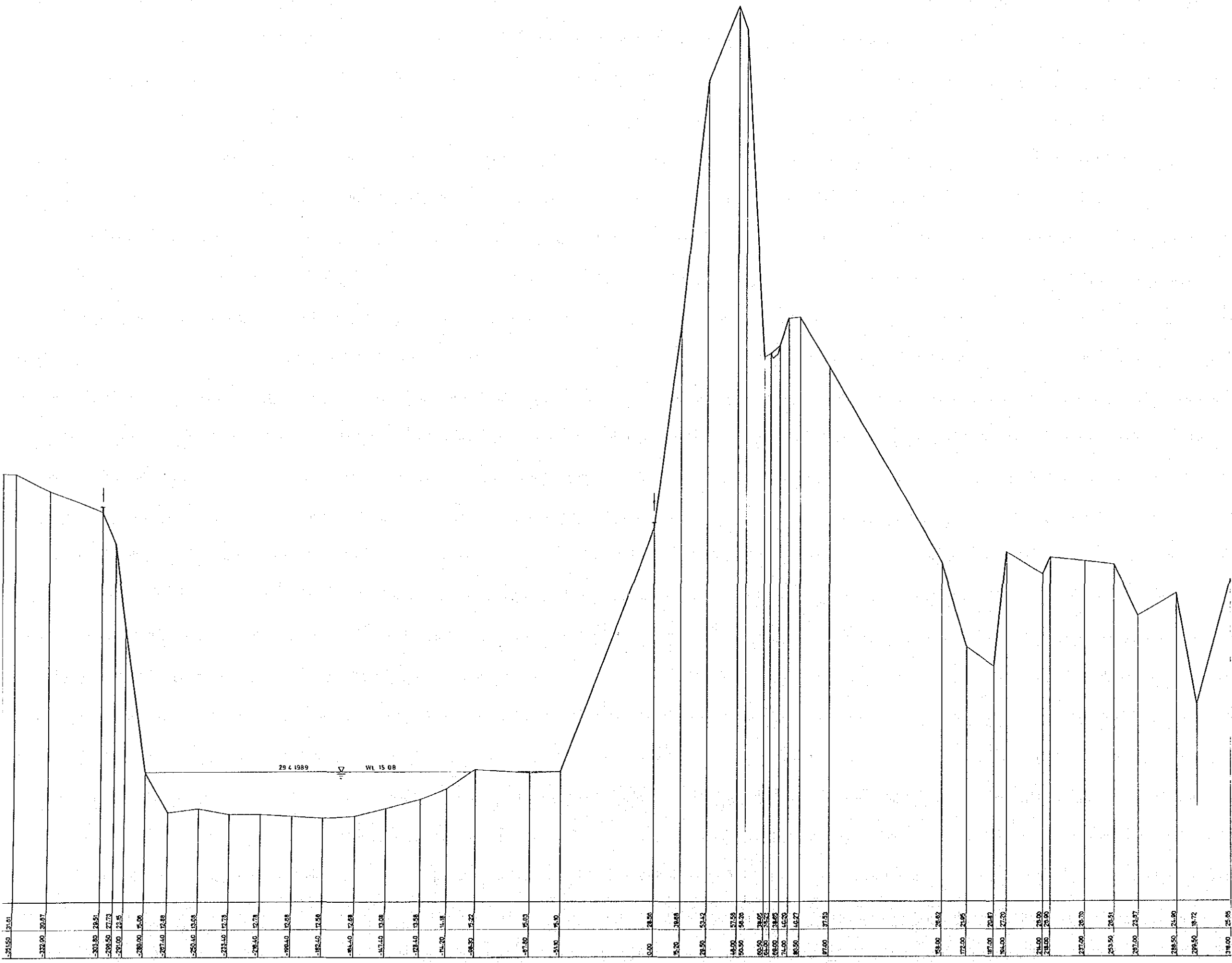


CROSS SECTION AT CH. 101.0 KM

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION	
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN	
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)	
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)	
SECTION	From IBM NO. KL 12 - 101.0 KM to IBM NO. KL - - - KM
SHEET NO	1011108 DATE SURVEYED MAY 1982
SCALE	Horizontal: 1 / 1,000 Vertical: 1 / 100



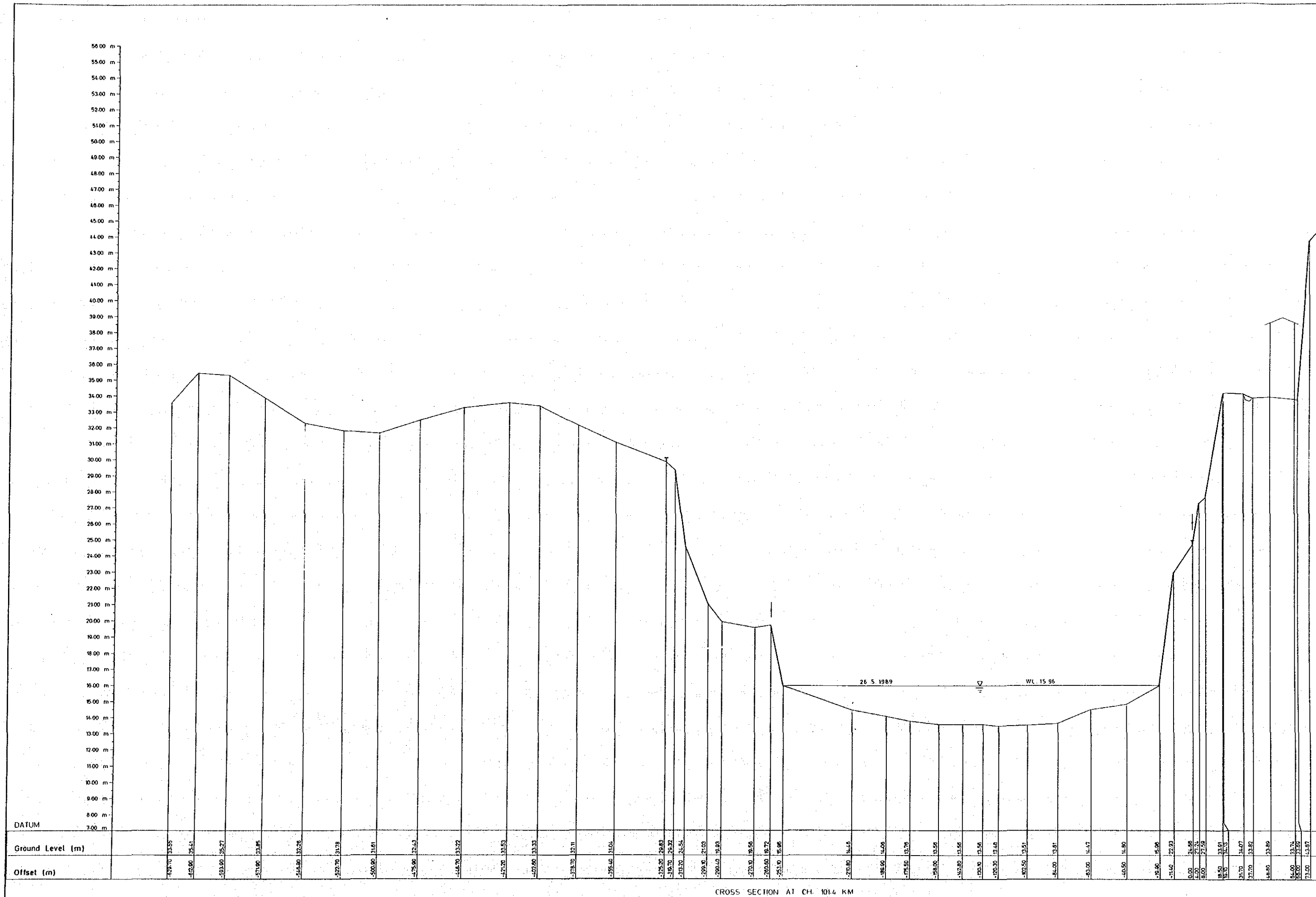
CROSS SECTION AT CH. 101.2 KM



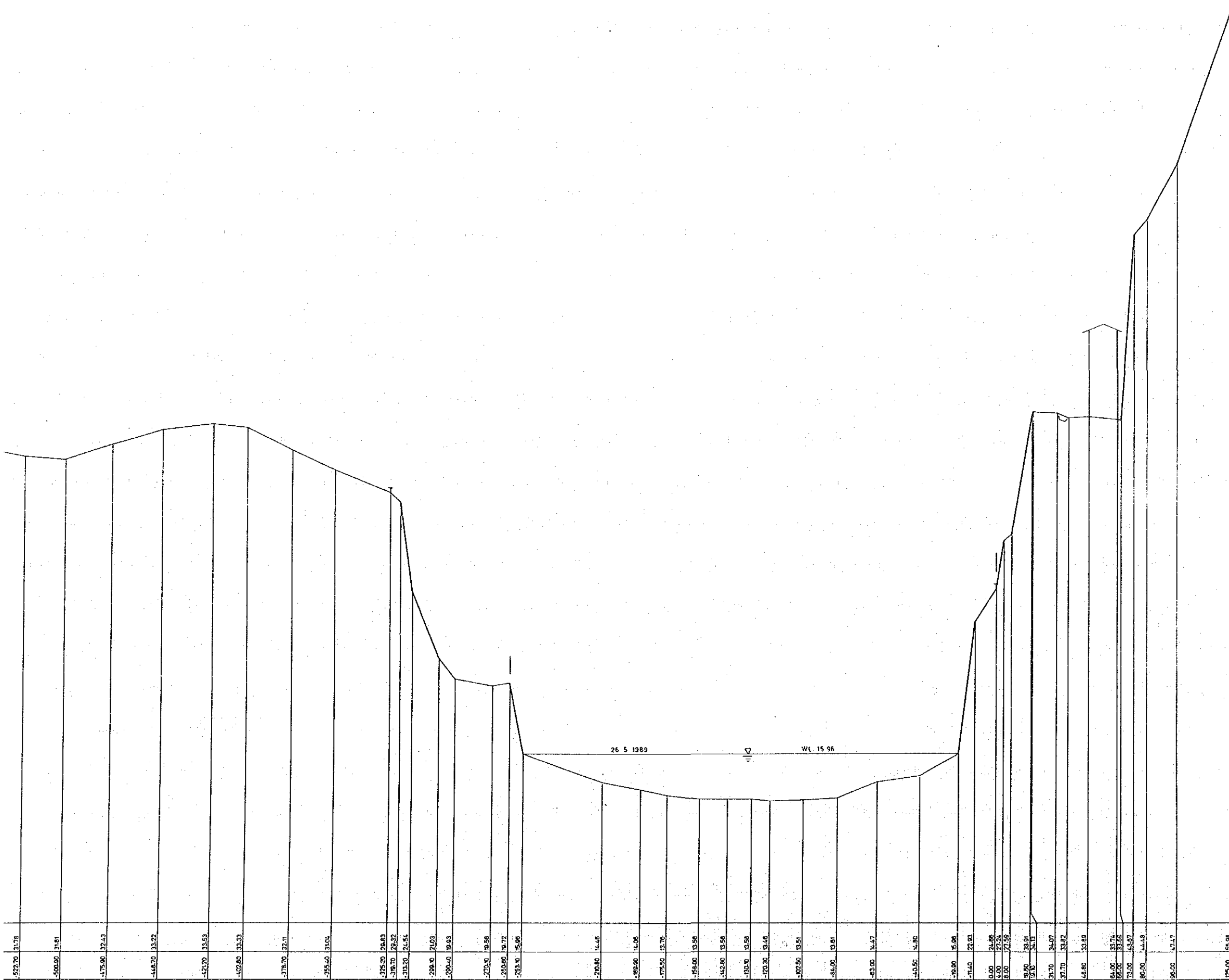
CROSS SECTION AT CH. 101.2 KM.

- REMARKS
- ↑ HOUSE
 - T EBM
 - I RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Engineers)			
SECTION	From BM NO. KL 12-101.2 KM To BM NO. KL --- KM		
SHEET NO.	102/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1000		Vertical : 1 / 50



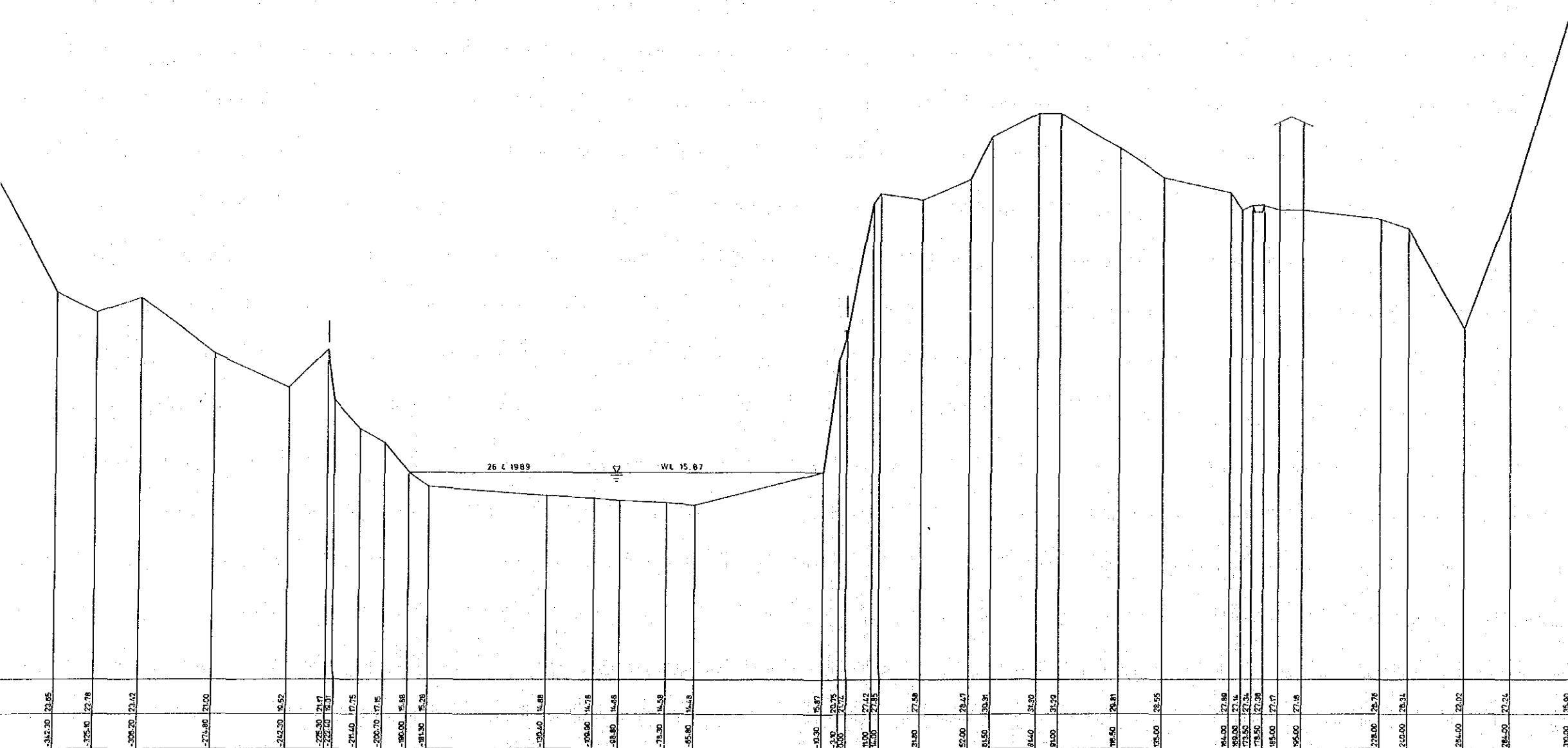
CROSS SECTION AT CH. 101.4 KM



CROSS SECTION AT CH. 101.4 KM

- REMARKS
- ↑ HOUSE
 - ┆ T.B.M.
 - ┆ RIVER WIDTH
 - ┆ ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION	
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN	
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)	
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)	
SECTION	From TBM NO. KI 12-101.4 KM to TBM NO. KI --- KM
SHEET NO.	103/108
DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000 Vertical : 1 / 100



CROSS SECTION AT CH. 101.6 KM

- REMARKS
- ⌈ HOUSE
 - ! T.B.M.
 - | RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION	From TBM NO. KL 12-101.6 KM To TBM NO. KL --- KM		
SHEET NO.	104/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000		Vertical : 1 / 100

38.00 m
37.00 m
36.00 m
35.00 m
34.00 m
33.00 m
32.00 m
31.00 m
30.00 m
29.00 m
28.00 m
27.00 m
26.00 m
25.00 m
24.00 m
23.00 m
22.00 m
21.00 m
20.00 m
19.00 m
18.00 m
17.00 m
16.00 m
15.00 m
14.00 m
13.00 m
12.00 m
11.00 m
10.00 m
9.00 m
8.00 m
7.00 m
6.00 m
5.00 m

25.4.1989

17

WL 15

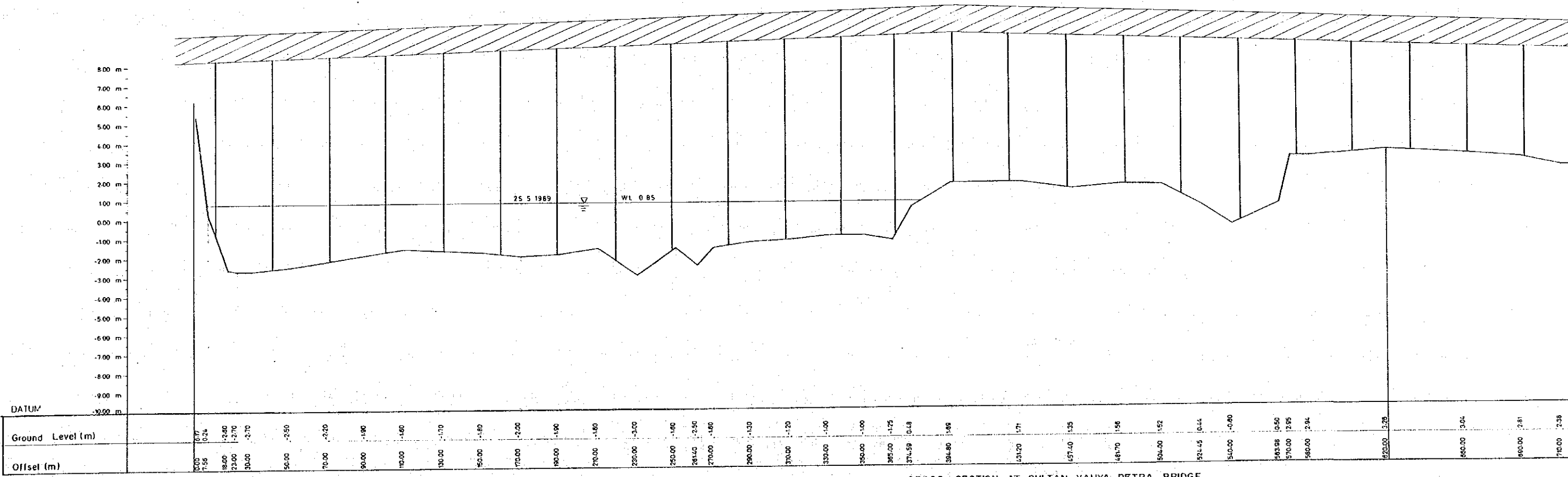
DATUM

Ground Level (m)

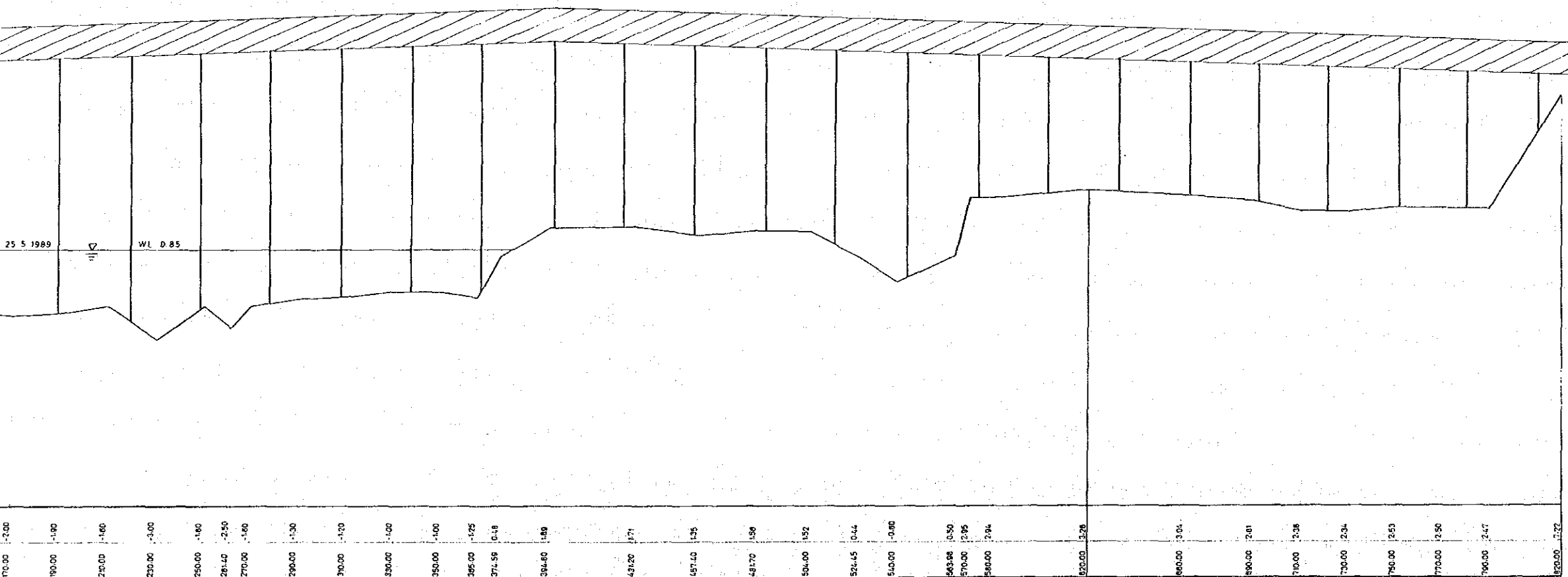
Offset (m)

687.75	10.75	30.30
687.50	11.21	32.21
685.00	13.92	33.92
686.30	13.55	33.55
687.70	13.18	33.18
711.70	14.05	34.05
714.40	13.72	33.72
710.30	12.47	32.47
681.30	13.28	33.28
648.80	13.20	33.20
620.70	12.85	32.85
595.70	12.19	32.19
576.20	10.95	31.95
567.70	11.95	31.95
484.00	12.45	25.45
523.50	12.34	24.34
568.60	13.90	24.90
487.30	12.07	21.07
487.00	12.08	20.08
487.00	12.08	20.08
463.40	17.58	17.58
446.20	16.53	16.53
396.40	15.72	15.72
378.50	15.37	15.37
388.80	14.92	14.92
362.90	14.32	14.32
338.60	14.32	14.32
372.90	14.12	14.12
371.80	14.32	14.32
368.00	14.32	14.32
388.40	14.12	14.12
378.80	14.12	14.12
356.00	14.22	14.22
427.80	15.32	15.32
420.10	15.12	15.12
409.80	15.02	15.02
405.10	15.02	15.02
394.80	15.02	15.02

CROSS SECTION AT CH. 101.8 KM



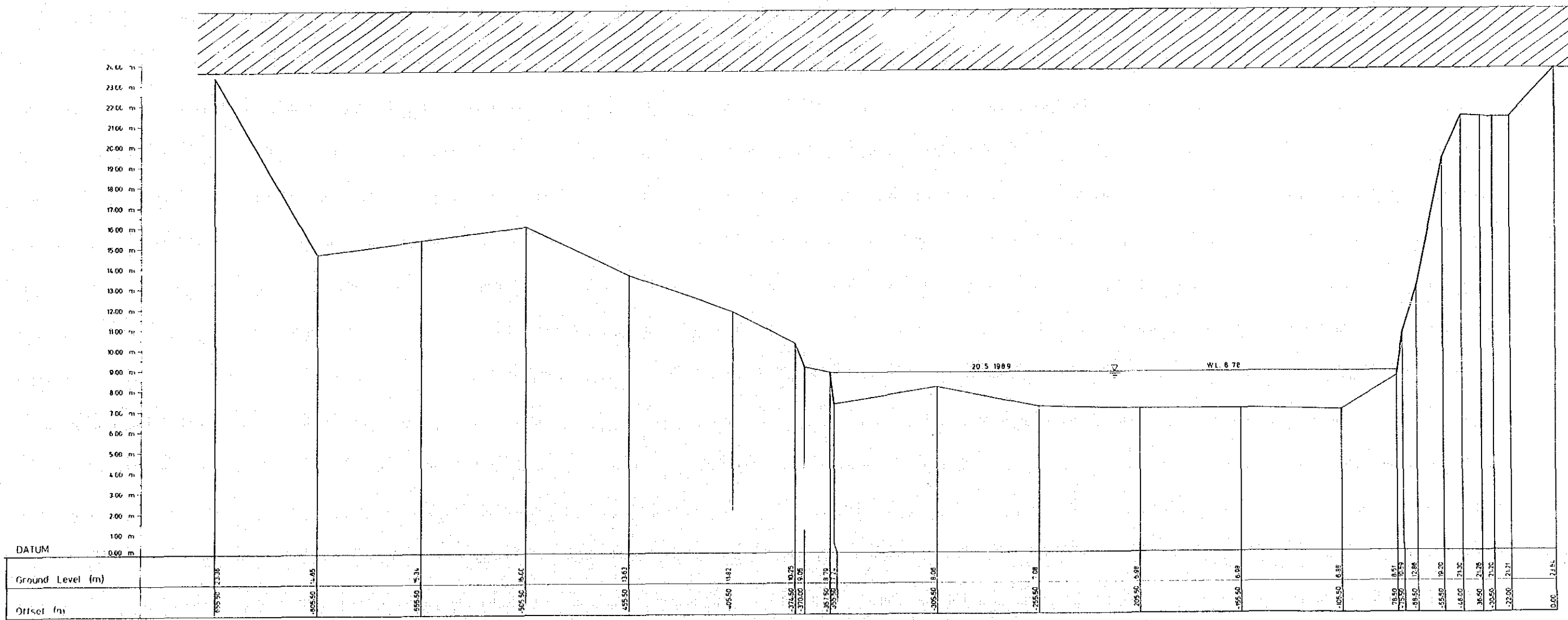
CROSS SECTION AT SULTAN YAHYA PETRA BRIDGE



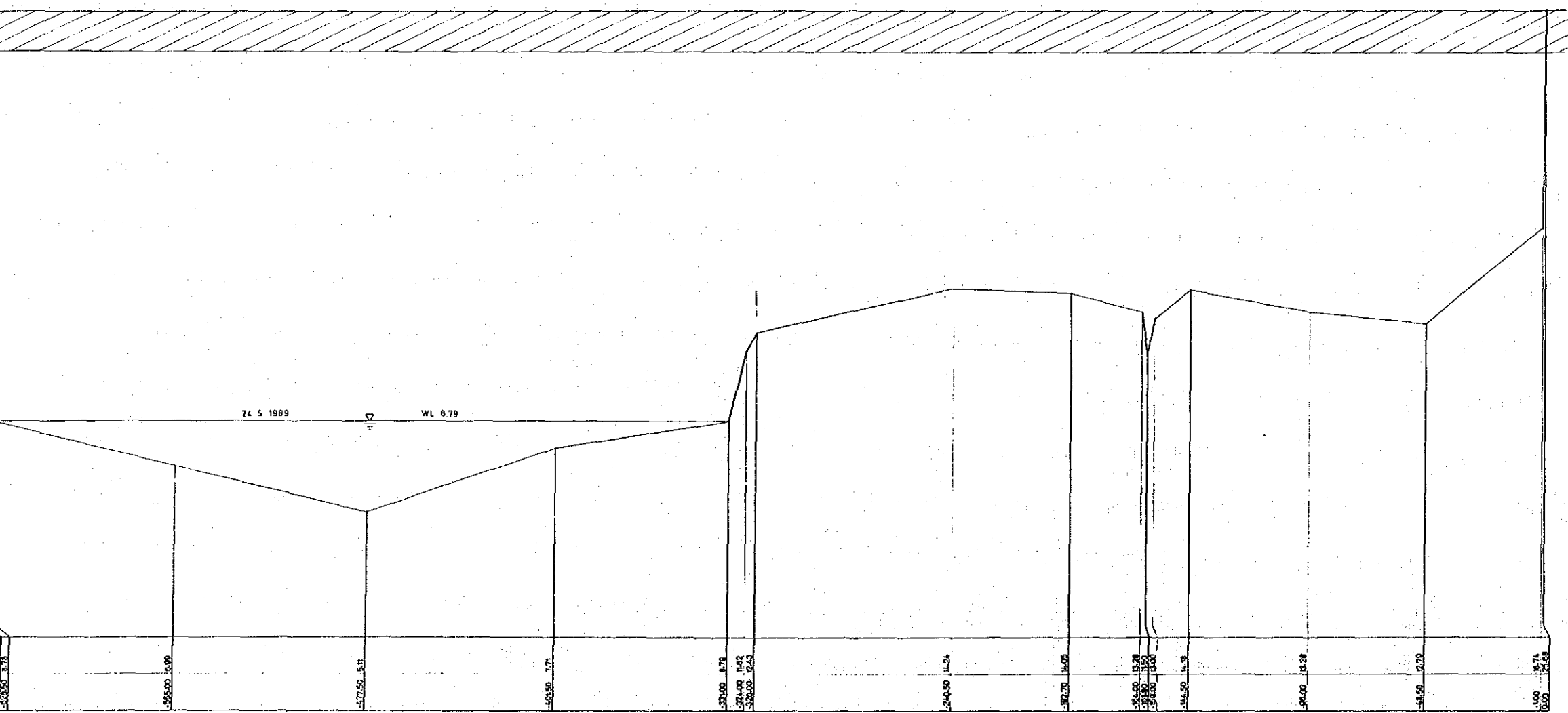
CROSS SECTION AT SULTAN YAHYA PETRA BRIDGE

- REMARKS
- ↑ HOUSE
 - I I.B.M.
 - | RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
CROSS-SECTIONAL PROFILE OF SUNGAI KELANTAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SON. BHD. (Consulting Surveyors)			
SECTION	From TBM No. KL --- KM	To TBM No. KL --- KM	
SHEET NO. 106/108	DATE SURVEYED	MAY 1989	
SCALE	Horizontal 1 / 1,000	Vertical	1 / 100



CROSS SECTION AT KUSIAL NEW BRIDGE



CROSS SECTION AT RAILWAY BRIDGE

- REMARKS :
- ↑ HOUSE
 - T TBM
 - | RIVER WIDTH
 - ROAD or PATH
 - O.C.S. OLD CROSS SECTION

STUDY ON KELANTAN RIVER BASIN-WIDE FLOOD MITIGATION			
GROSS-SECTIONAL PROFILE OF SUNGAI KELANIAN			
JICA (JAPAN INTERNATIONAL COOPERATION AGENCY)			
KAJIAN KOKUSAI SDN. BHD. (Consulting Surveyors)			
SECTION	From TBM NO. XL ---	KM To TBM NO. XL ---	KM
SHEET NO.	108/108	DATE SURVEYED	MAY 1989
SCALE	Horizontal : 1 / 1,000		Vertical : 1 / 100

