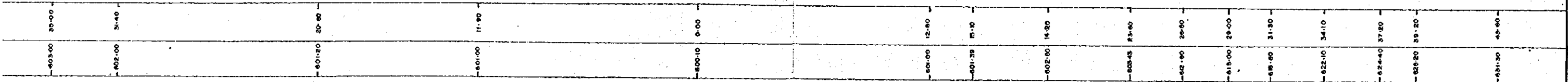
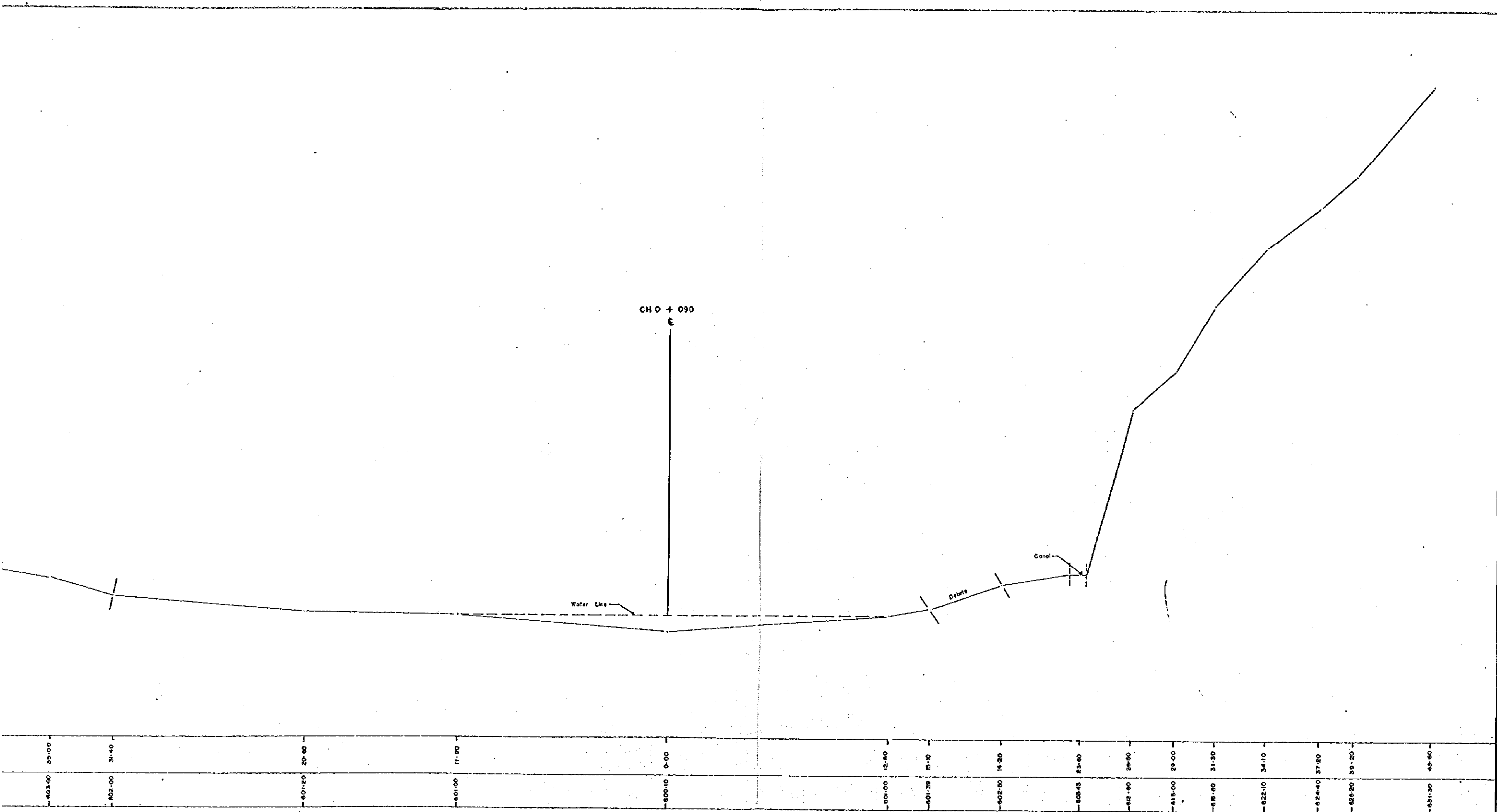
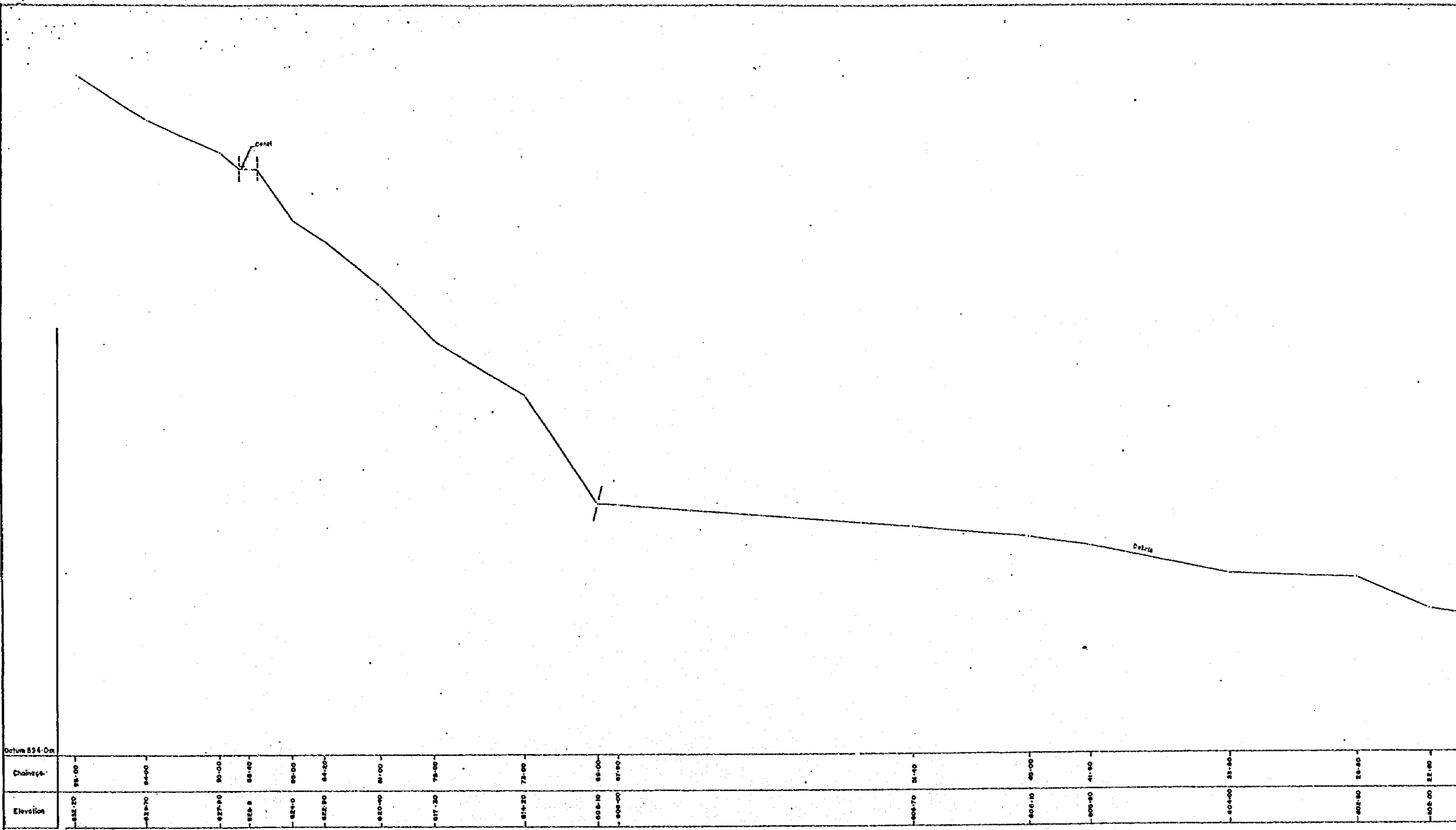


Station	93+00	94+00	95+00	97+50	99+00	100+70	101+20	101+50	102+00	105+00	108+00	110+00	112+00	115+00	117+00	120+00	122+00	125+00	127+00	130+00	
Elevation	83.00	82.80	82.60	82.10	82.30	82.50	81.40	81.20	80.80	80.00	79.20	78.50	78.20	77.50	76.50	75.50	74.50	73.50	72.50	71.50	70.50



<b>JICA / HMG</b>			
PROJECT DISASTER PREVENTION PROJECT			
CONSULTANT AUTO CARTO CONSULT			
AGRA KHOLA (DOWN) (10/11) CH 0 + 090			
DISTRICT DHADING	VDC MAHADEV BESI	SURVEY CHECKED BY:	
X-SECTION	H=1:100 V=1:100	PLOTTING CHECKED BY:	
SURVEY COMPLETED BY:		DRAWING CHECKED BY:	
MAP COMPLETED BY:			



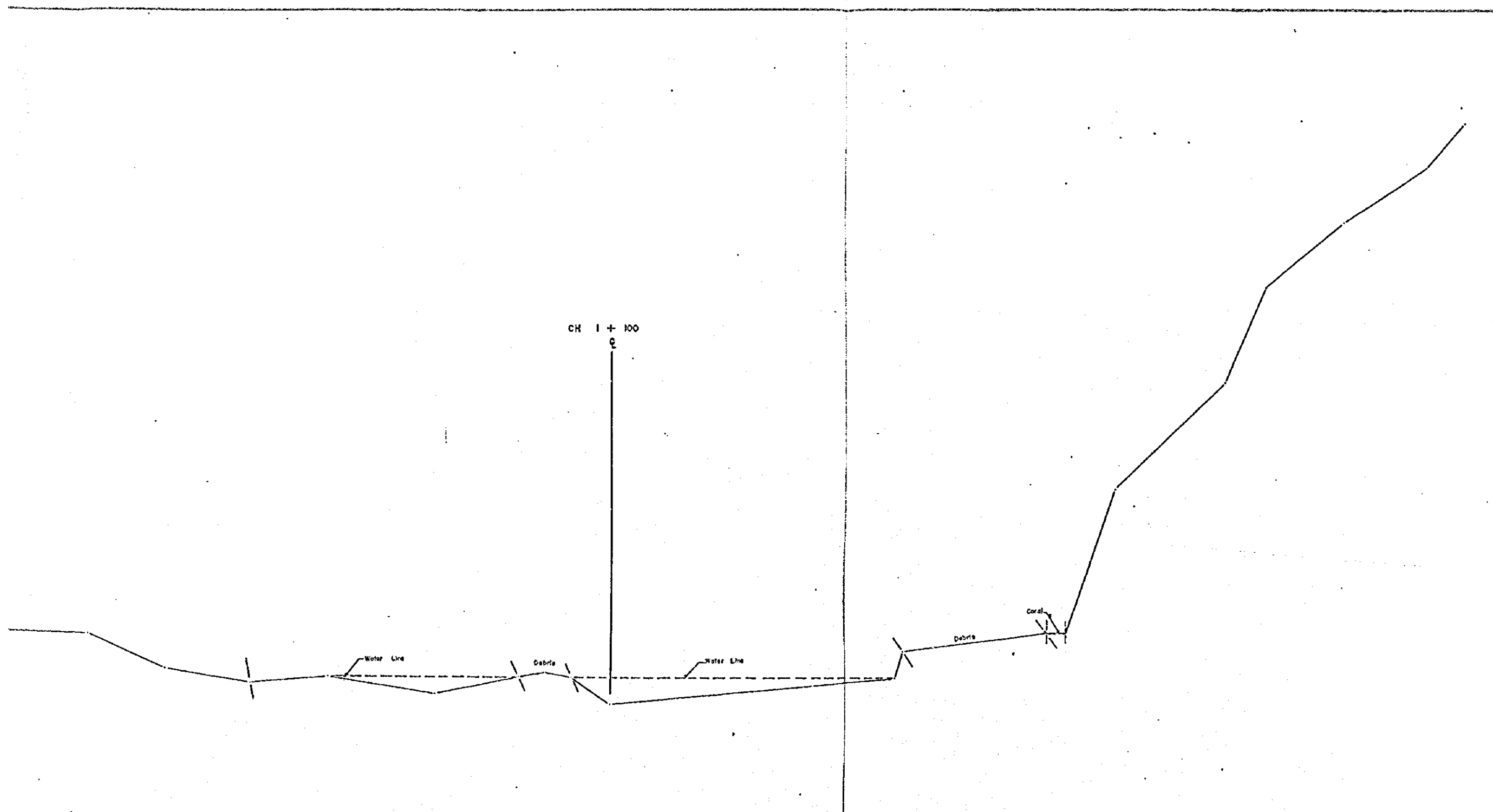
Return 534.0m

Change

Elevation

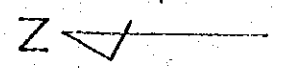
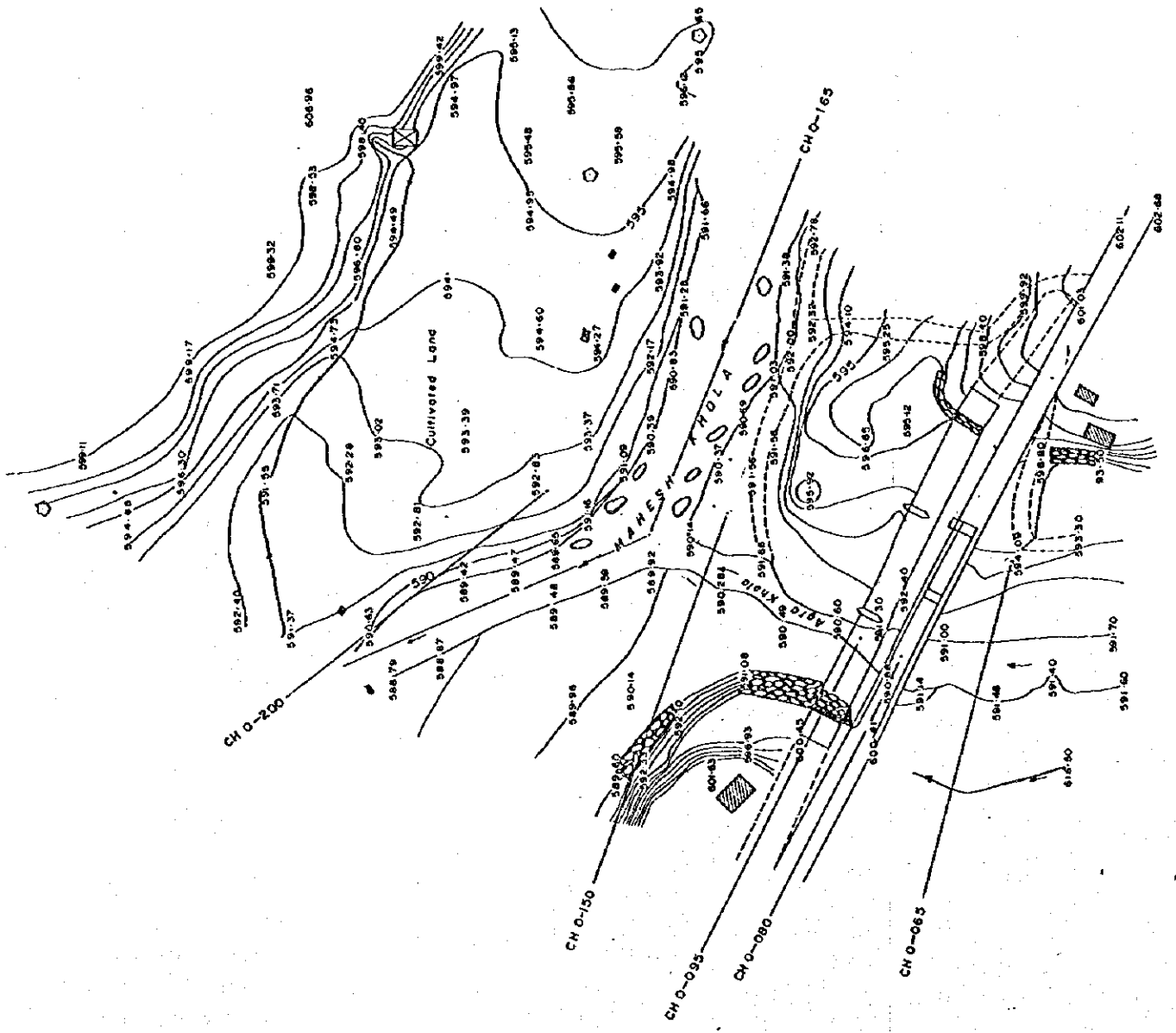
Crest

Profile



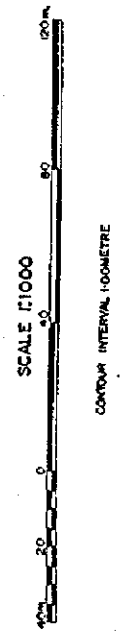
26.50	25.00	18.40	14.50	9.00	4.00	3.00	2.10	0.00	14.00	13.20	22.00	25.00	31.00	33.80	27.50	41.80	45.00
602.80	602.00	601.20	601.60	600.70	601.50	601.00	601.00	600.20	601.55	602.90	603.45	611.30	616.80	621.70	625.30	627.00	630.20

<b>JICA / HMG</b>			
PROJECT DISASTER PREVENTION PROJECT			
CONSULTANT AUTO CARTO CONSULT			
ASRA KHOLA (DOWRI) (R/A) CH 0+100			
DISTRICT DHADING	VDC MAHADEVESI	SURVEY CHECKED BY:	
X-SECTION	H=1:100 V=1:100	PLOTTING CHECKED BY:	
SURVEY COMPLETED ON:		DRAWING CHECKED BY:	
MAP COMPLETED ON:			



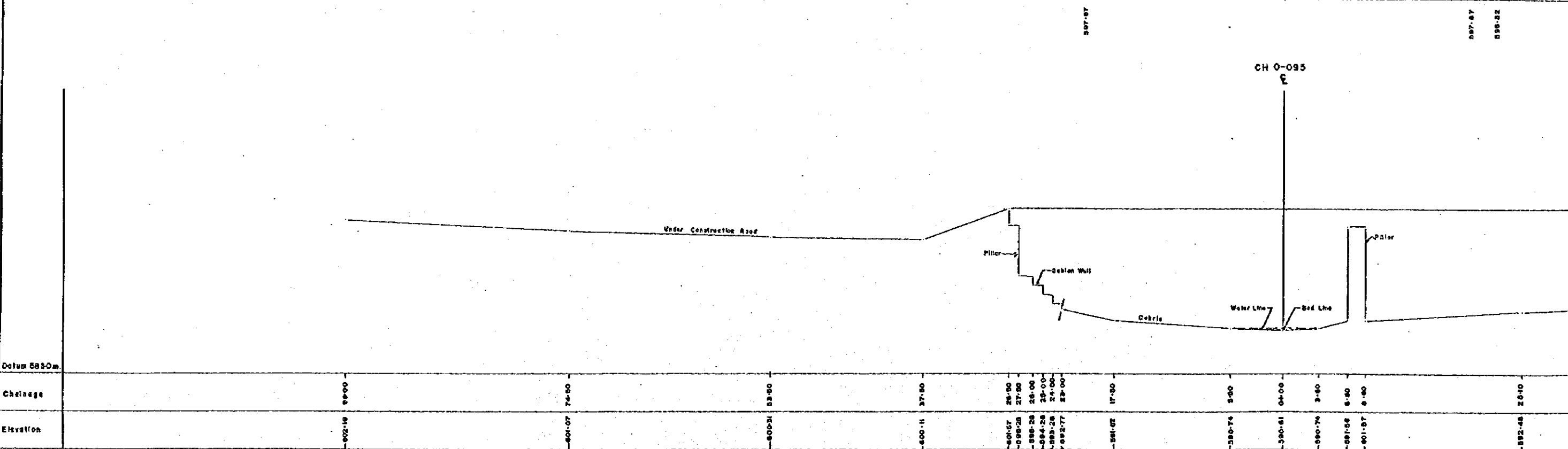
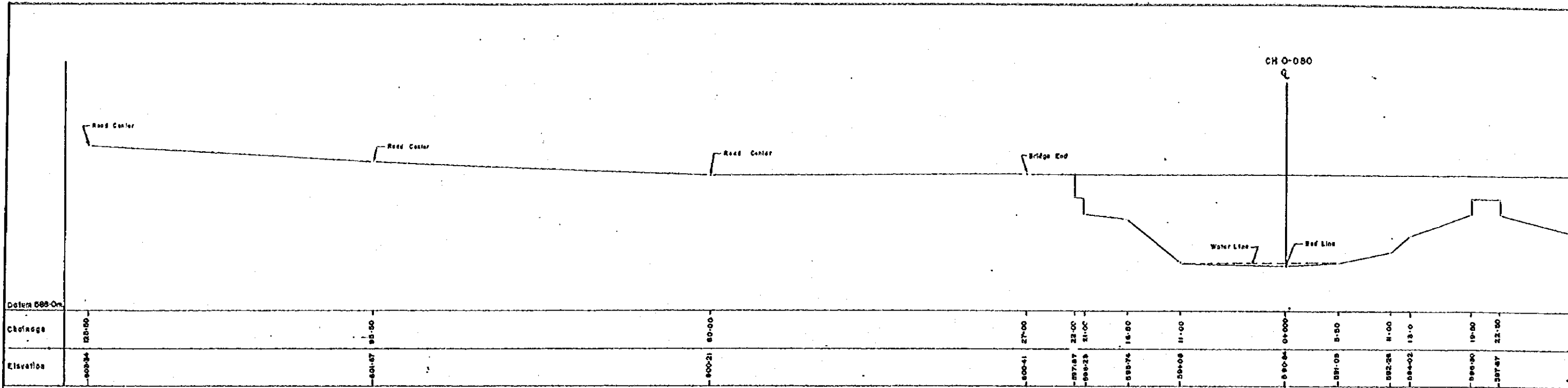
LEGEND

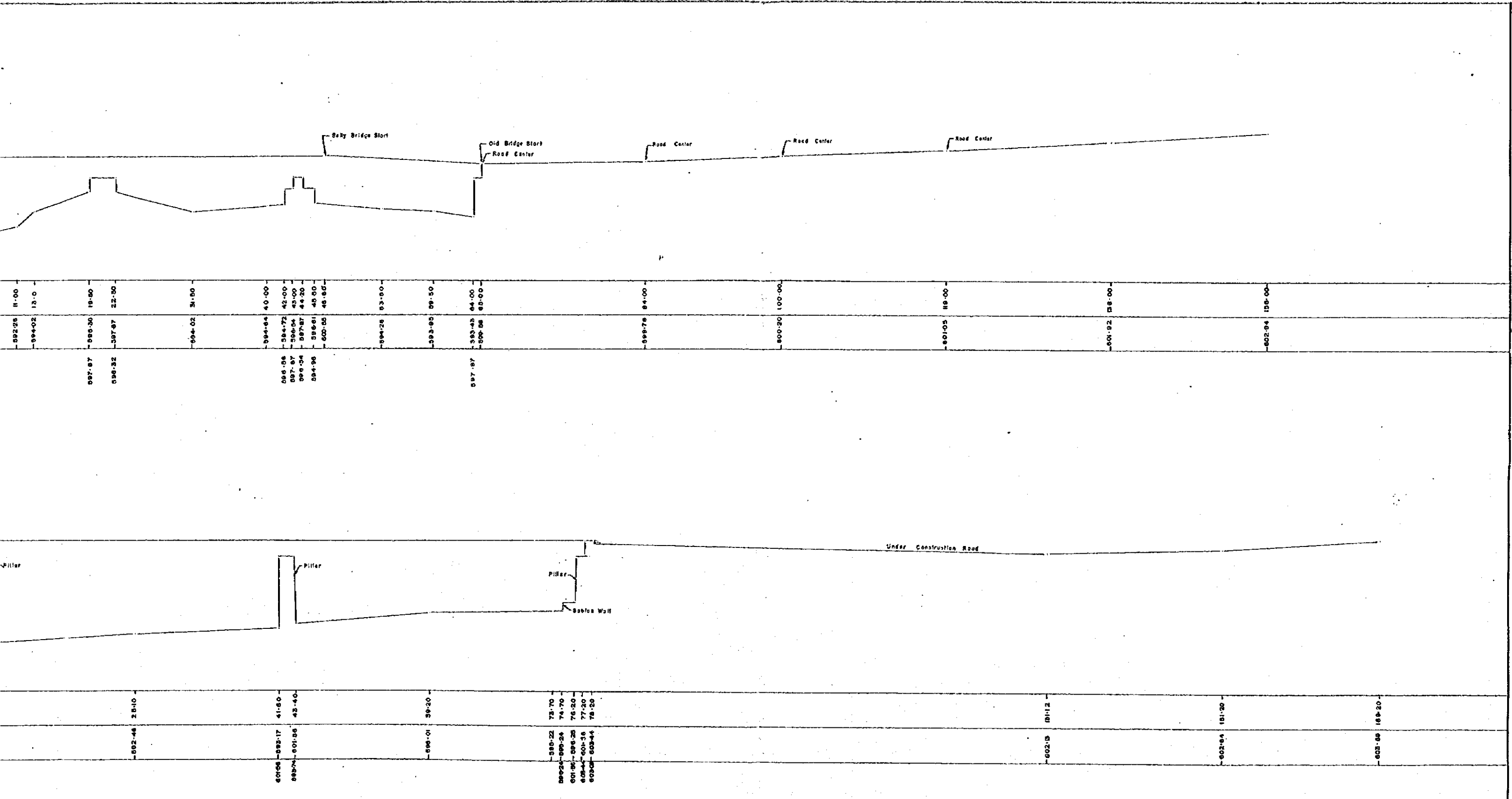
- Boulder
- Landslide, Colling
- Cliff
- Fall
- River
- Contours
- Spotheight
- Tree, Bamboo
- Water pipe line
- Gabonwal
- Cultivation line
- Roads, Bridge
- Track
- Temple
- Water Mill
- House, Temporary Hut



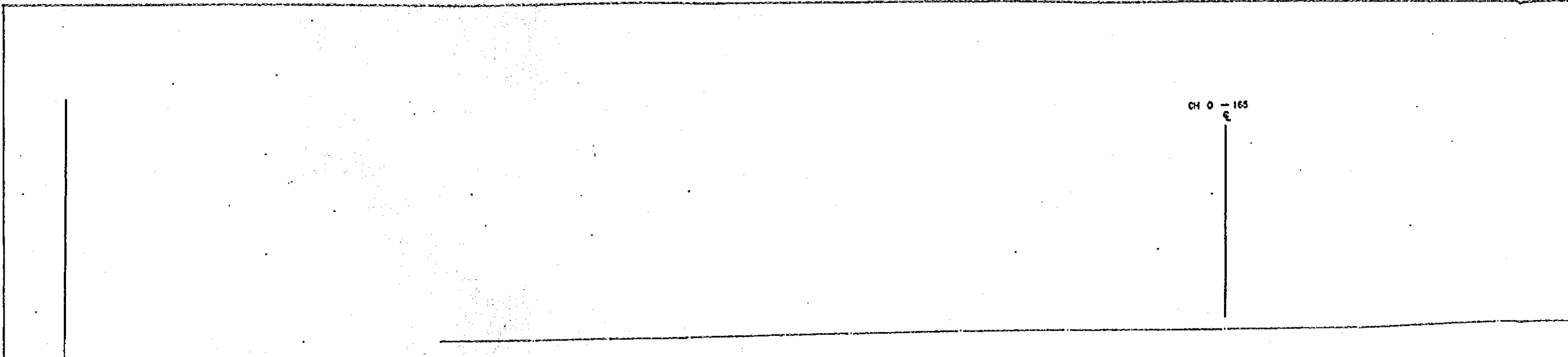
JICA / HMG

PROJECT		DISASTER PREVENTION PROJECT	
CONSULTANT		AUTO CARTO CONSULT	
DETAILED TOPOGRAPHICAL MAP OF AGRA KHOLA			
DISTRICT	VDC	SURVEY CHECKED BY-	
DHADING	MANADEV BESI	SCALE	1:1000
PLAN		PLOTTING CHECKED BY-	
SURVEY COMMENCED ON-		DRAWING CHECKED BY-	
MAP COMPLETED ON-			

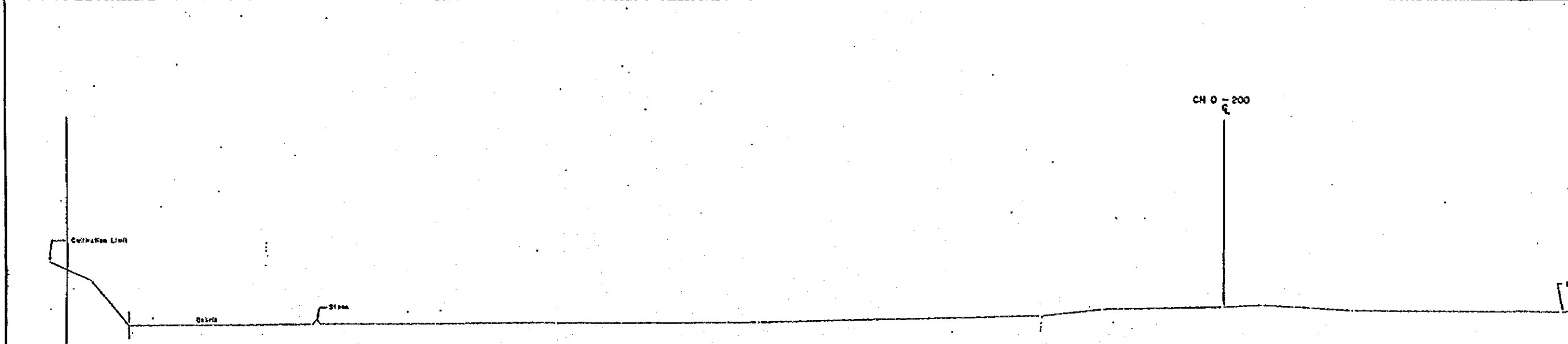




<b>JICA / HMG</b>			
PROJECT DISASTER PREVENTION PROJECT			
CONSULTANT AUTO CARTO CONSULT AGRA KHOLA (1/1) CH 0-090 & CH 0-095			
DISTRICT DHADING	YDC MAHADEVESI	SURVEY CHECKED BY:-	
X-SECTION	H:- 1:200 V:- 1:200	PLOTTING CHECKED BY:-	
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-	
MAP COMPLETED ON:-			



Station	184+00	170+00	182+00	182+00	108+00	81+50	82+00	38+00	04+00	38+00	87+00
Elevation	588.90	587.08	587.90	587.78	588.34	588.07	588.04	588.50	588.41	588.08	588.42



Station	240+44	278+70	289+00	225+00	222+00	222+00	222+00	182+00	182+00	44+88	28+00	04+000	0+00	81+00	82+00
Elevation	600.00	600.00	600.00	600.40	600.40	600.40	600.40	600.40	600.40	600.32	601.42	602.38	602.01	601.48	601.22



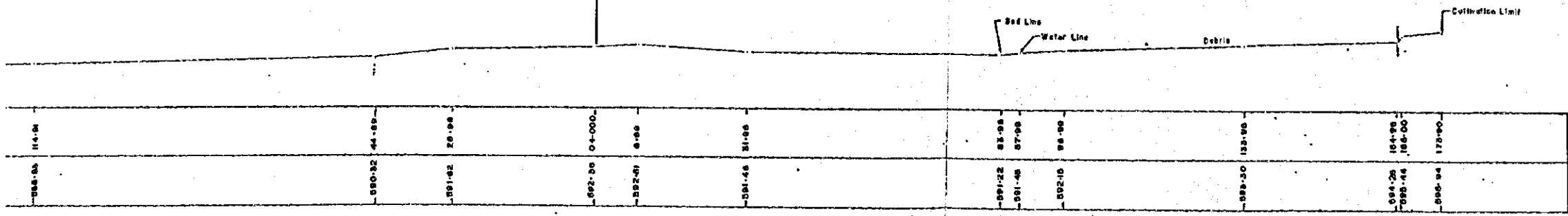
CH 0 - 165

2

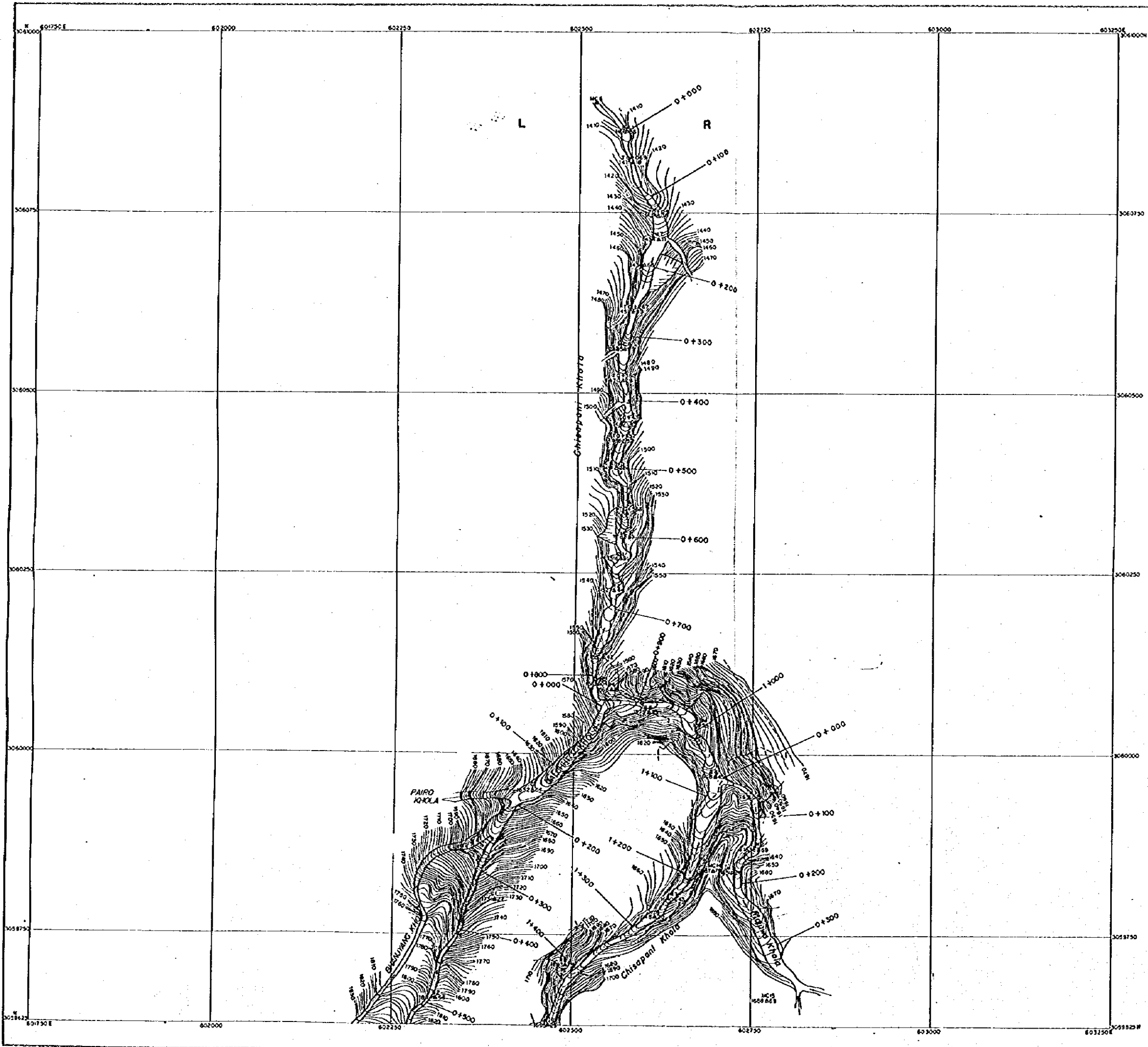


CH 0 - 200

2



<b>JICA / HMG</b>			
PROJECT DISASTER PREVENTION PROJECT			
CONSULTANT AUTO CARTO CONSULT			
MAHESH KHOLA (1/13) CH 0 - 165 TO CH 0 - 200			
DISTRICT DHADING	VDC MAHADEVBESI	SURVEY CHECKED BY:-	
X-SECTION	H=1:500 V=1:500	PLOTING CHECKED BY:-	
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-	
MAP COMPLETED ON:-			



# AGRA V. D. C. (CHISAPANI)

Scale-1:2500



SHEET INDEX



LEGEND

Motable road with bridge	Forest Area
Metalled road with bridge	Land slide
Track with fixed bridge	Contour
Suspension bridge	Spot height
Isolated Tree	Bench Mark
River with steep banks	Cliff
Khala, Khola	Water mill
Gokan wall	House
Rocks, Boulders	Tap
Trigonometrical Central Point	

### PROJECTION AND DATUM

Grid Modified UTM Zone 48 S  
 X Origin 101 N (0 000 metres)  
 Y Origin 8761000 000 000 metres E  
 Vertical Datum National Height Datum

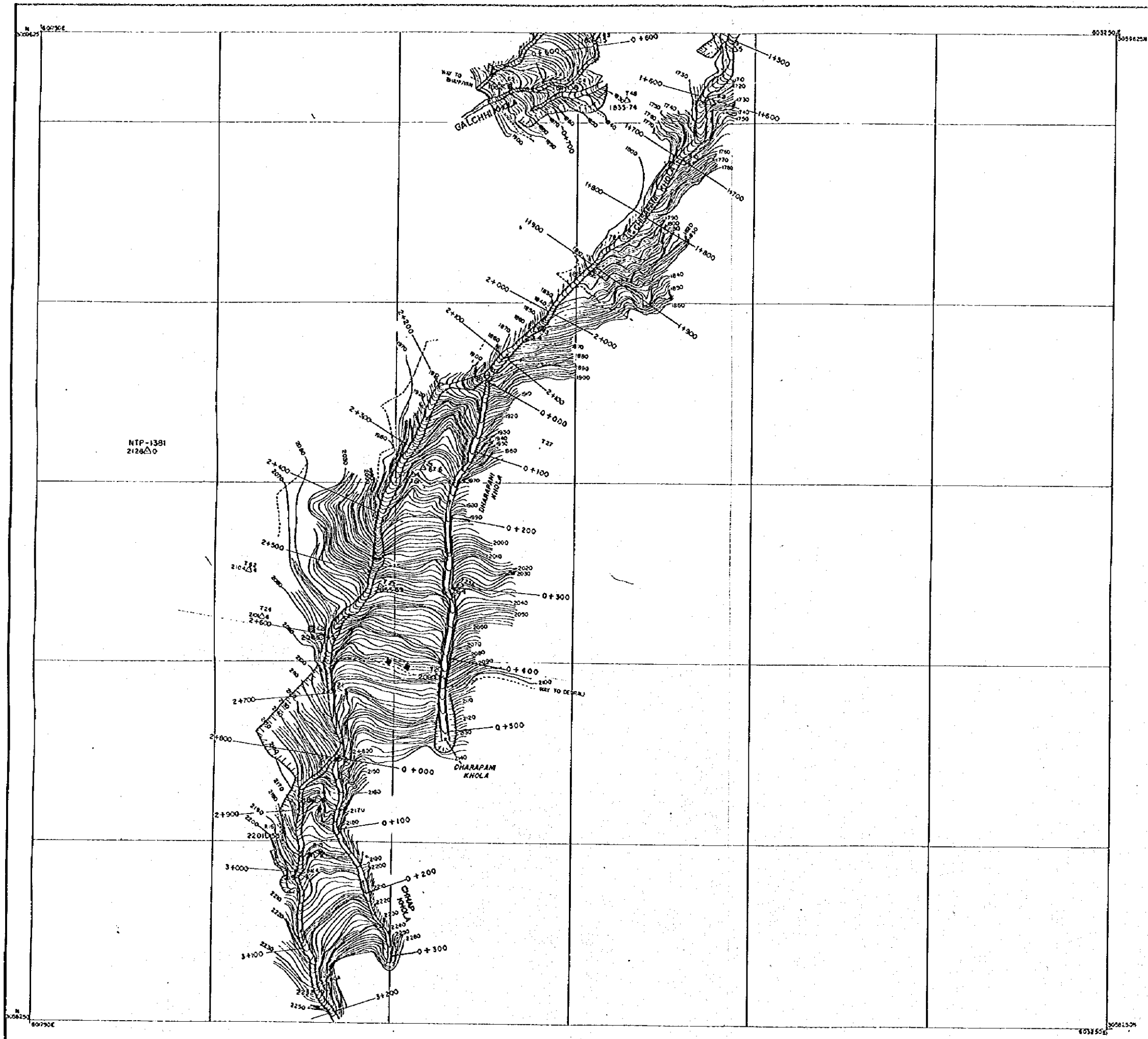
JICA / HMG

PROJECT  
DISASTER PREVENTION PROJECT

CONSULTANT  
AUTO CARTO CONSULT

CHISAPANI KHOLA PLAN - I

DISTRICT MAKAWANPUR	VDC AGRA	SURVEY CHECKED BY-
TOPOGRAPHICAL MAP	SCALE: 1:2500	PLOTTING CHECKED BY-
SURVEY COMMENCED ON-		DRAWING CHECKED BY-
MAP COMPLETED ON-		



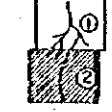
NTP-1381  
212600

# AGRA V.D.C. (CHISAPANI)

Scale: 1:2500



SHEET INDEX



LEGEND

Metalled road with bridge	Forest Area	
Metalled road with bridge	Land slide	
Track with foot bridge	Contour	
Suspension bridge	Spot Height	850.00
Toppled Tree	Dark Mark	
River with steep banks	Cliff	
Khala, Khohal	Water Mill	
Guloh wall	House	
Rocks, Boulders	Tap	
Trigonometrical Control Point		

### PROJECTION AND DATUM

Grid : Modified UTM Zone 48 S  
 X Origin : 50°N (0 000 000m east)  
 Y Origin : 84°E (500 000 000m east)  
 Vertical Datum : National Height Datum

### JICA / HMG

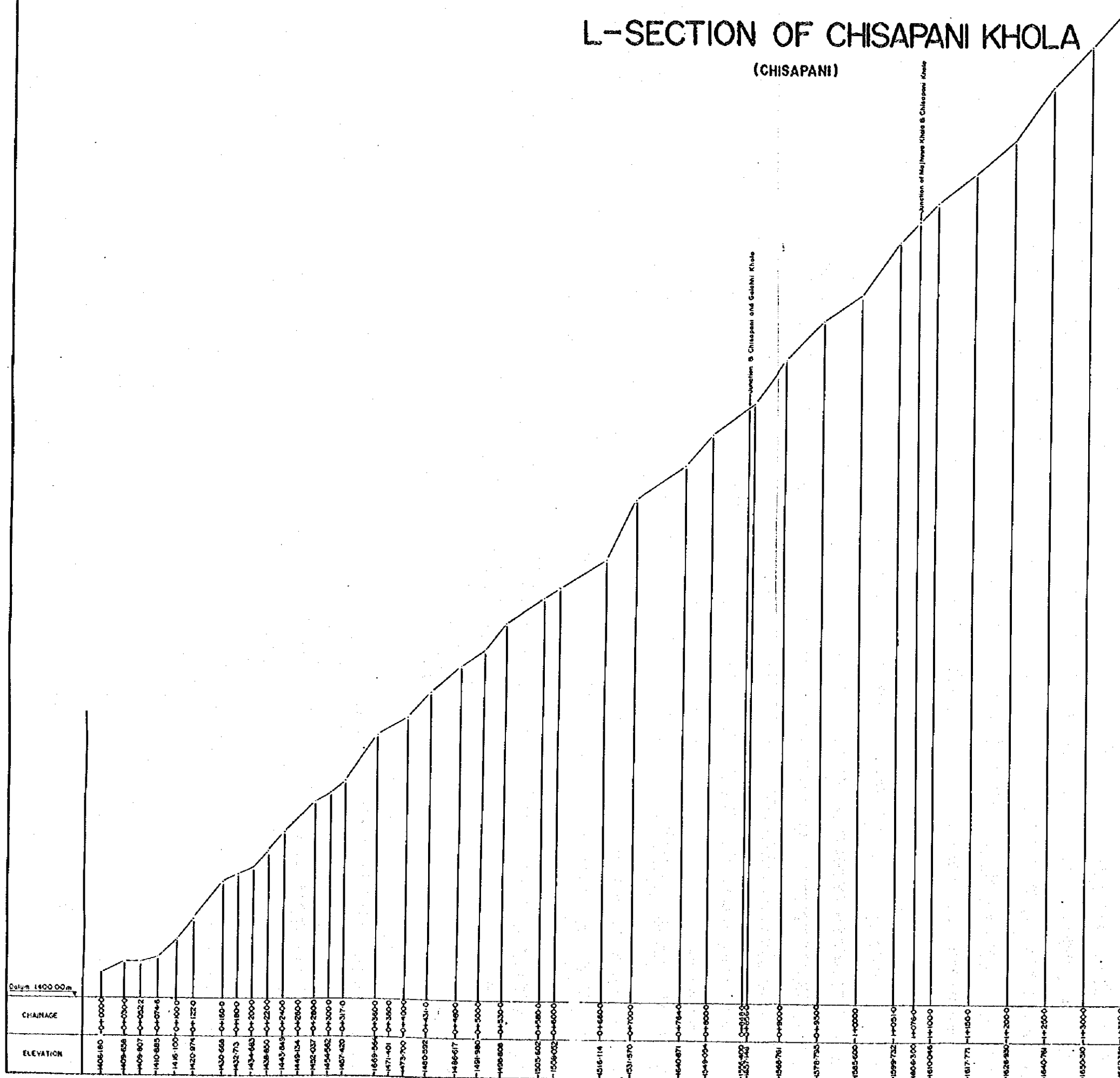
PROJECT  
DISASTER PREVENTION PROJECT

CONSULTANT  
AUTO CARTO CONSULT

CHISAPANI KHOLA PLAN-2

DISTRICT MAKAWANPUR	VDC AGRA	SURVEY CHECKED BY:-	
TOPOGRAPHICAL MAP	SCALE: 1:2500	PLOTTING CHECKED BY:-	
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-	
MAP COMPLETED ON:-			

# L-SECTION OF CHISAPANI KHOLA (CHISAPANI)

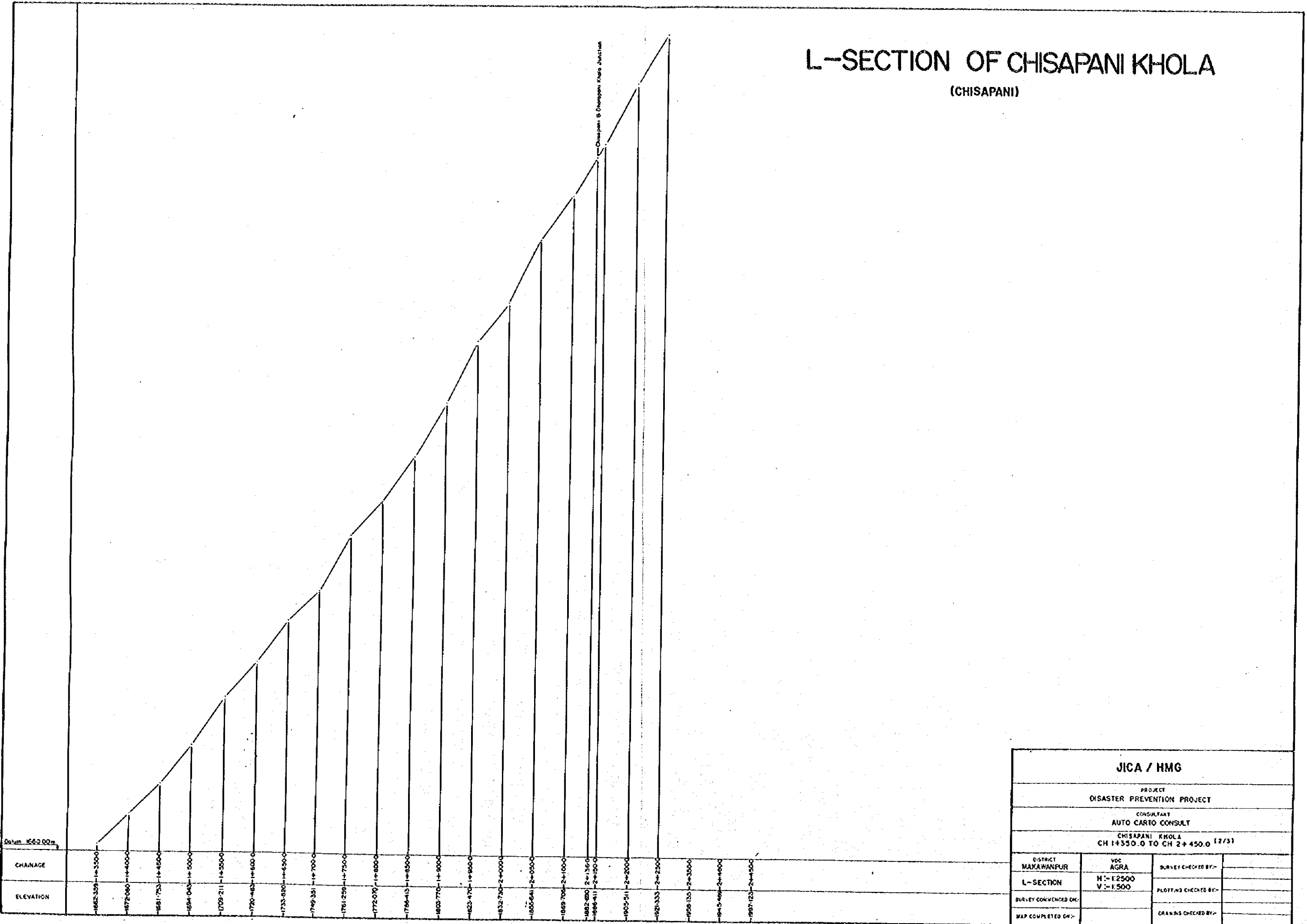


Scale 1:400 000

CHAINAGE	0+000	0+050	0+100	0+150	0+200	0+250	0+300	0+350	0+400	0+450	0+500	0+550	0+600	0+650	0+700	0+750	0+800	0+850	0+900	0+950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350													
ELEVATION	1406.180	1409.628	1409.807	1410.885	1416.100	1420.974	1430.665	1432.773	1434.663	1438.800	1443.849	1449.124	1452.037	1454.562	1457.420	1469.564	1471.401	1473.700	1480.322	1486.617	1491.980	1498.608	1505.602	1506.023	1516.114	1531.570	1540.671	1549.054	1555.400	1557.733	1568.761	1578.793	1585.600	1599.732	1606.300	1610.046	1617.771	1626.430	1640.761	1650.330	1652.309

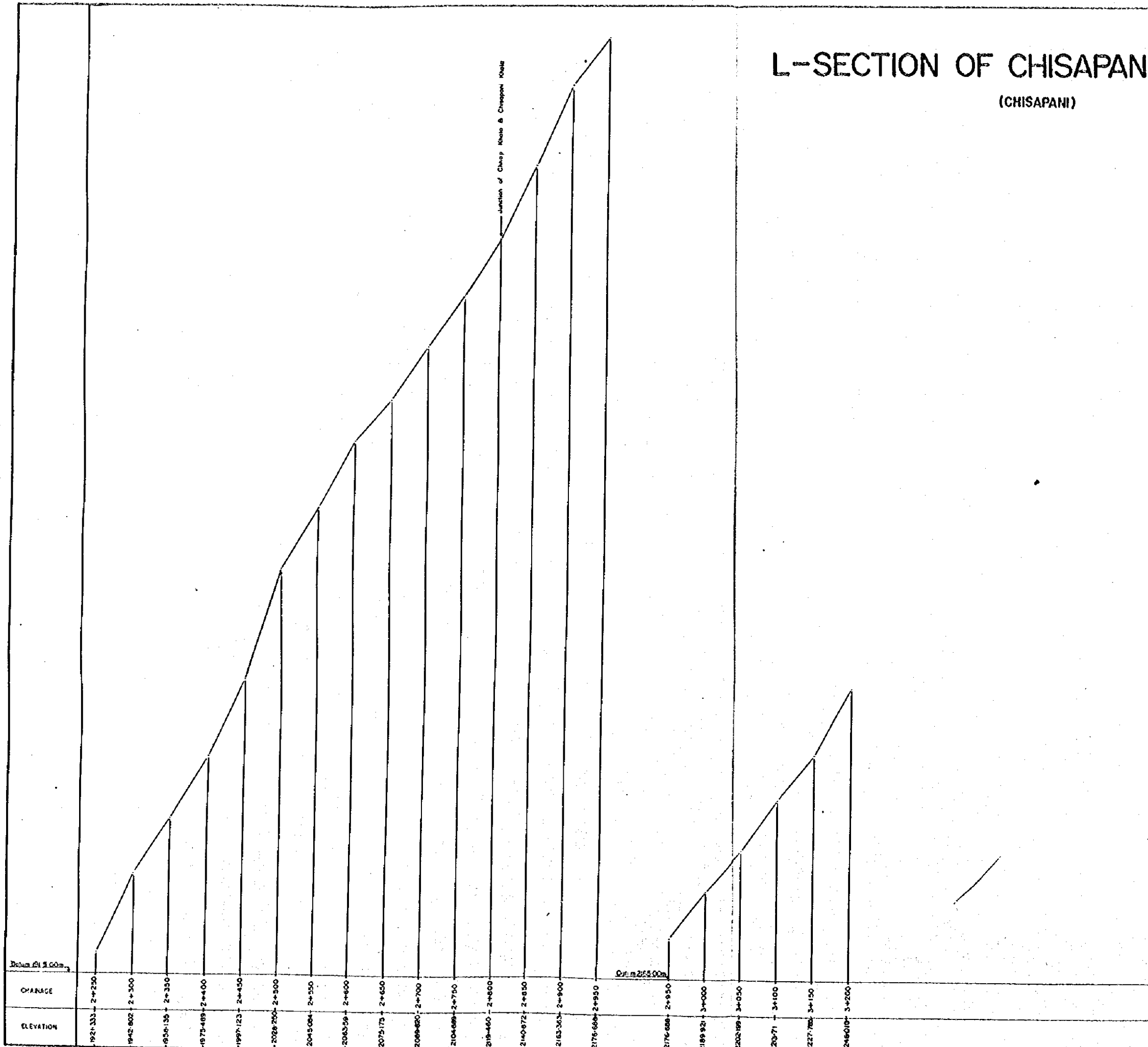
<b>JICA / HMG</b>		
PROJECT DISASTER PREVENTION PROJECT		
CONSULTANT AUTO CARTO CONSULT		
CHISAPANI KHOLA CH 0+000.0 TO CH 1+350.0 (1/3)		
DISTRICT MAKAWANPUR	VDC AGRA	SURVEY CHECKED BY:-
L-SECTION	H:-1:2500 V:-1:500	PLOTTING CHECKED BY:-
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-
MAP COMPLETED ON:-		

# L-SECTION OF CHISAPANI KHOLA (CHISAPANI)

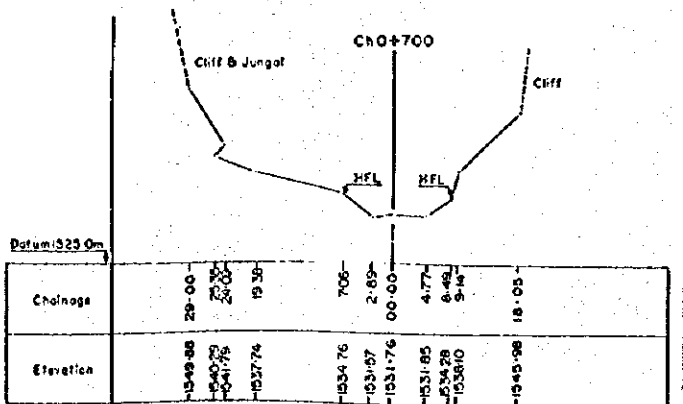
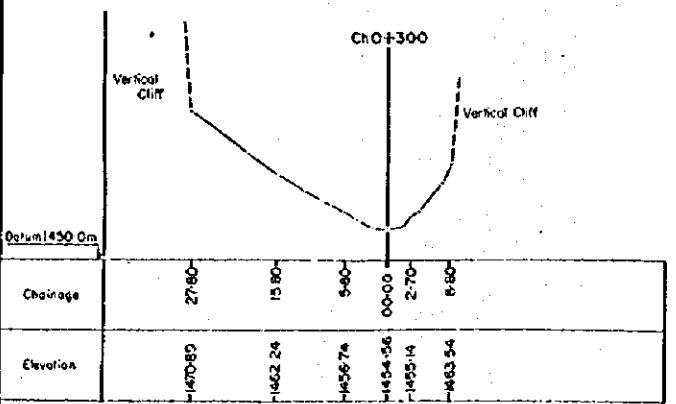
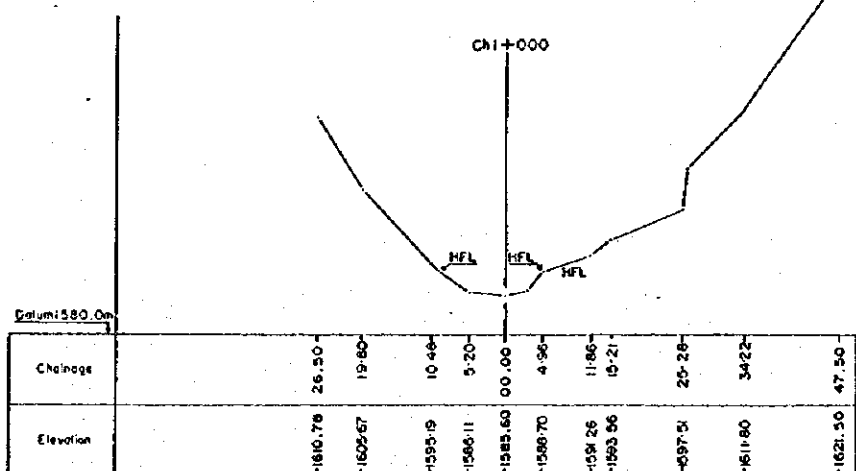
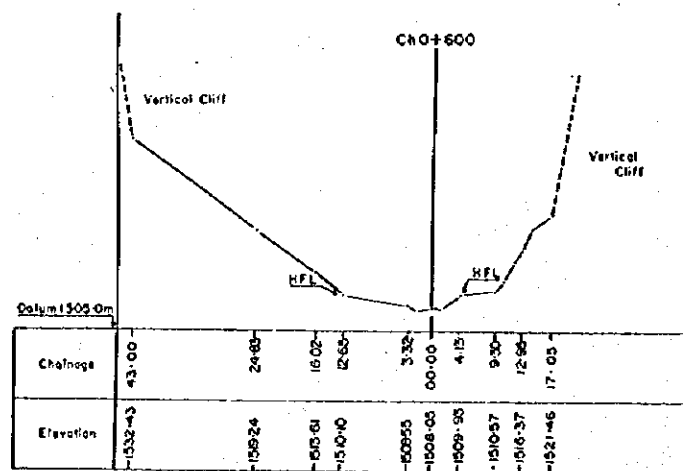
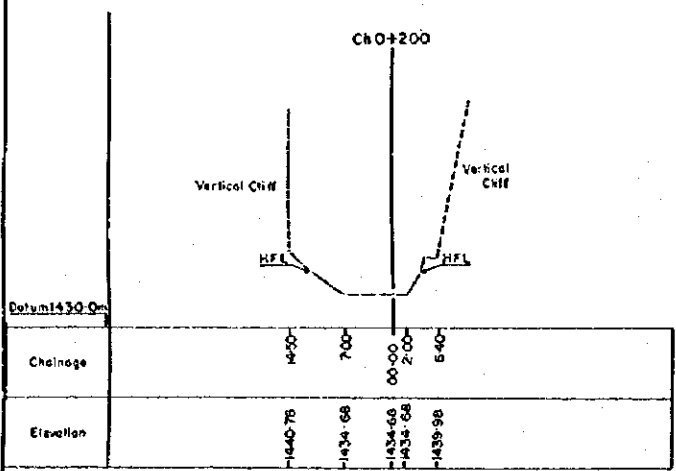
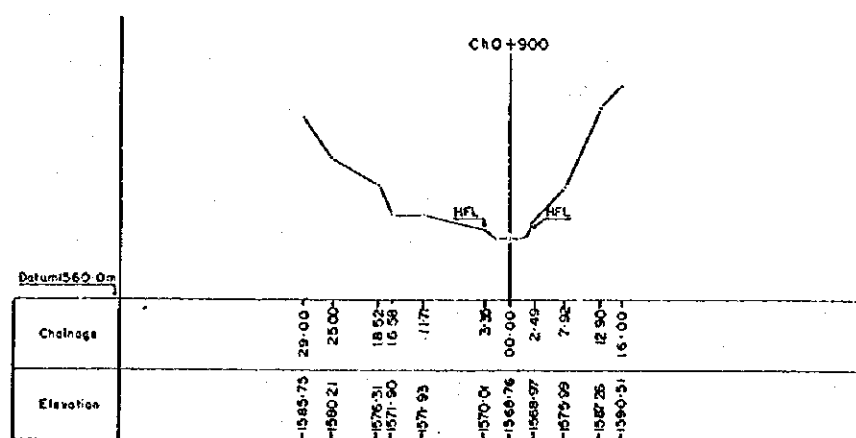
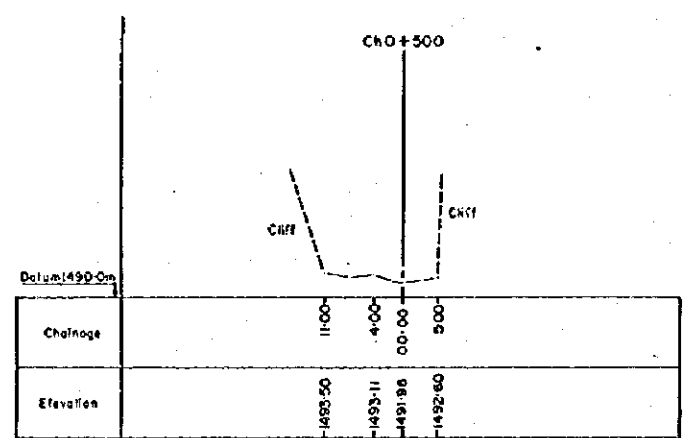
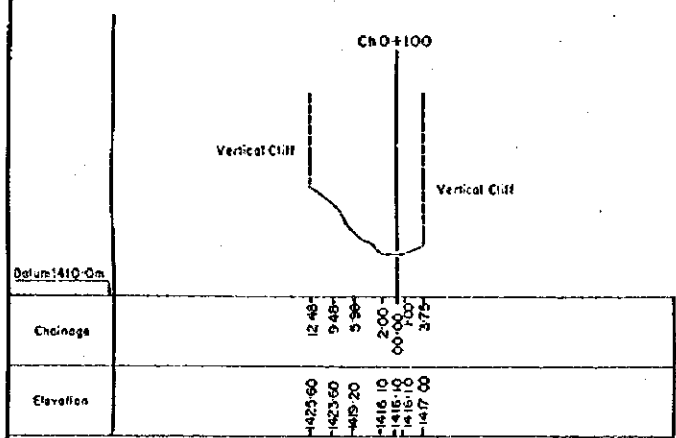
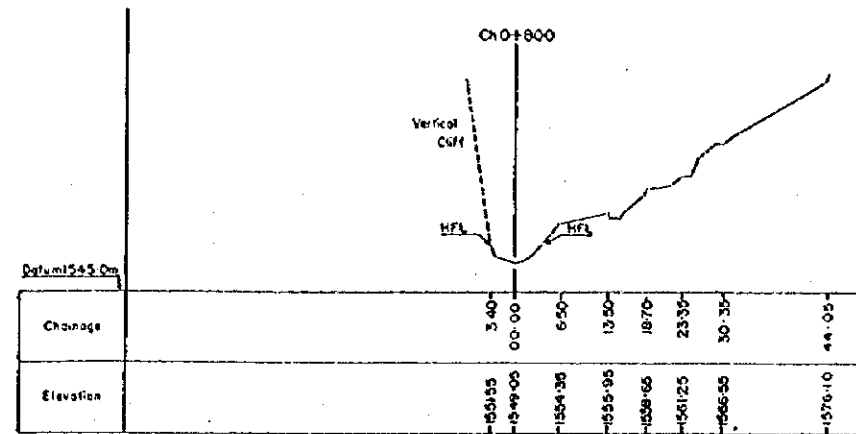
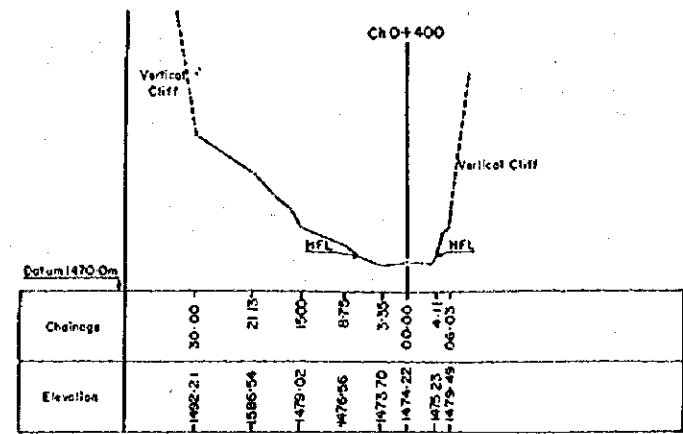
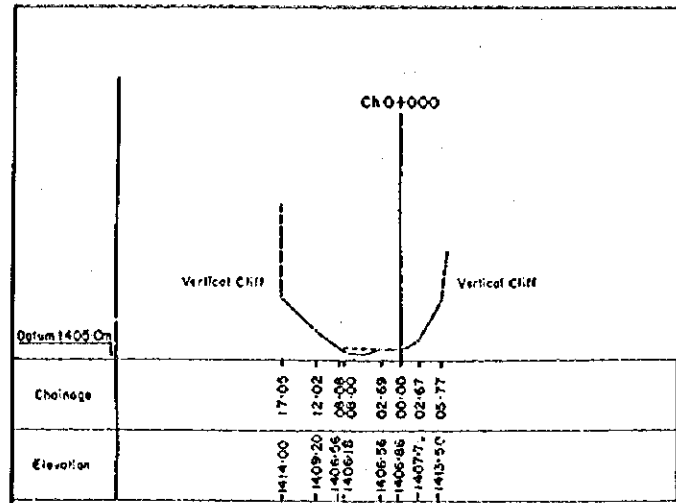


<b>JICA / HMG</b>			
PROJECT DISASTER PREVENTION PROJECT			
CONSULTANT AUTO CARTO CONSULT			
CHISAPANI KHOLA CH 1+350.0 TO CH 2+450.0 (2/3)			
DISTRICT MAKAWANPUR	VDC AGRA	SURVEY CHECKED BY:-	
L-SECTION	H:-1:2500 V:-1:500	PLOTTING CHECKED BY:-	
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-	
MAP COMPLETED ON:-			

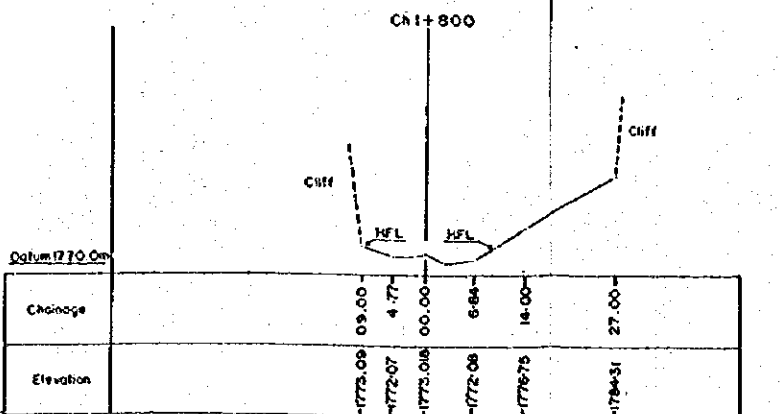
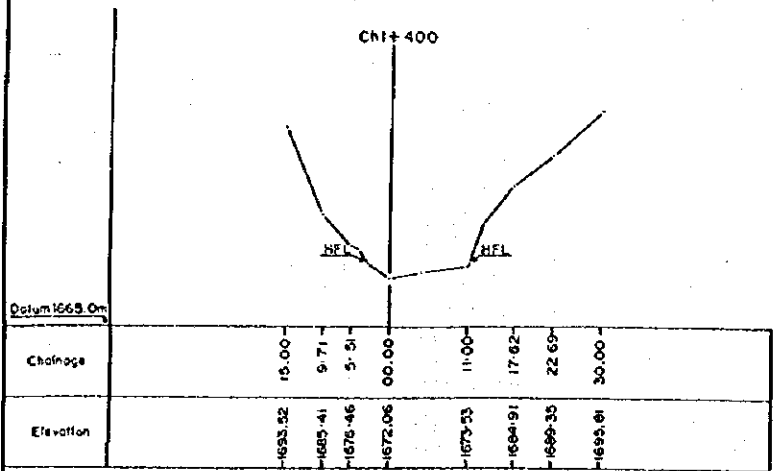
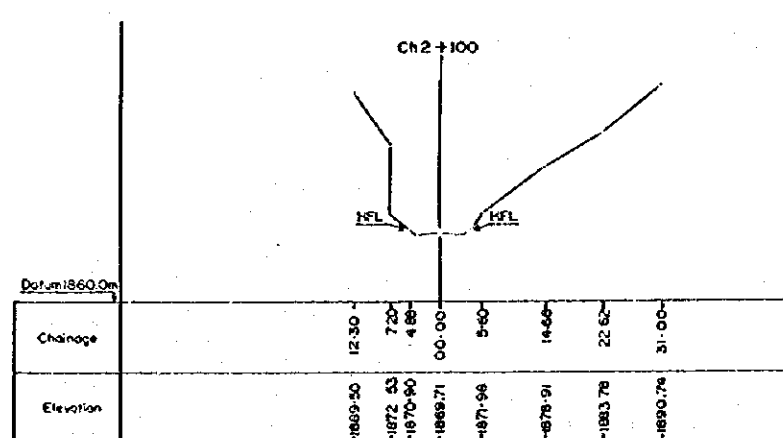
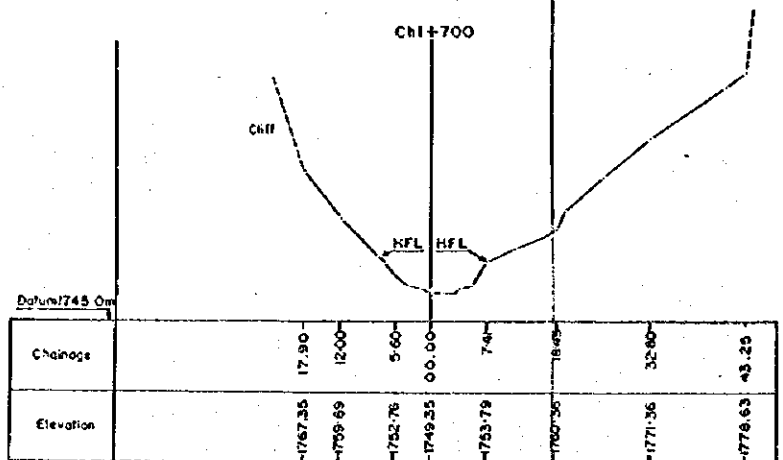
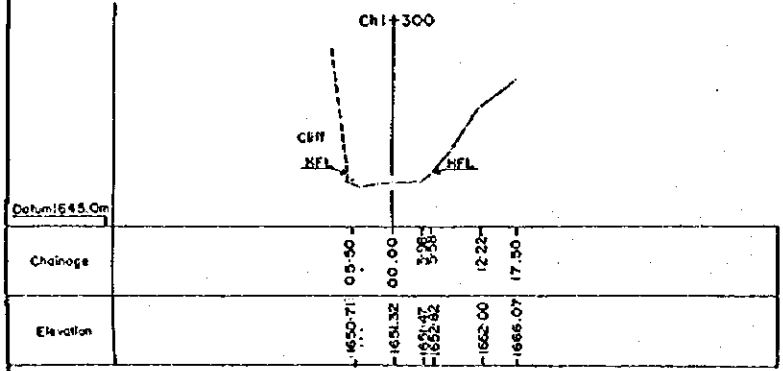
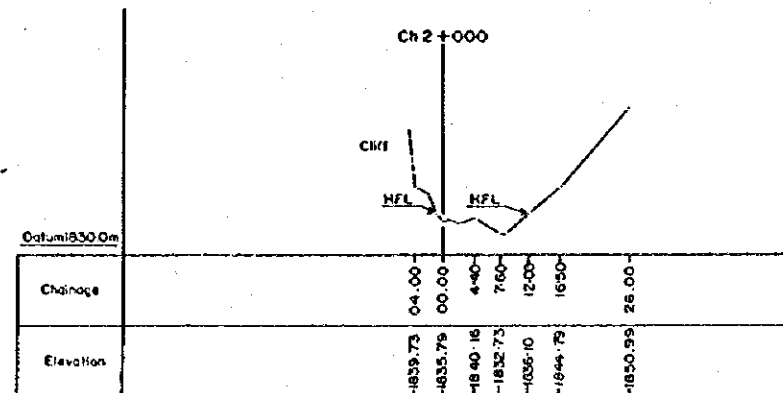
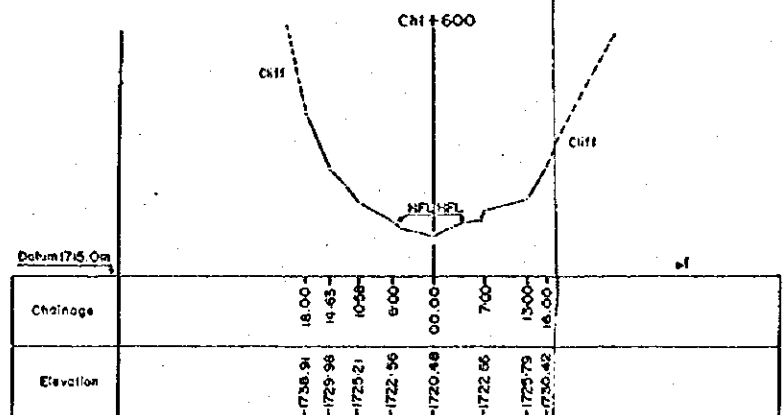
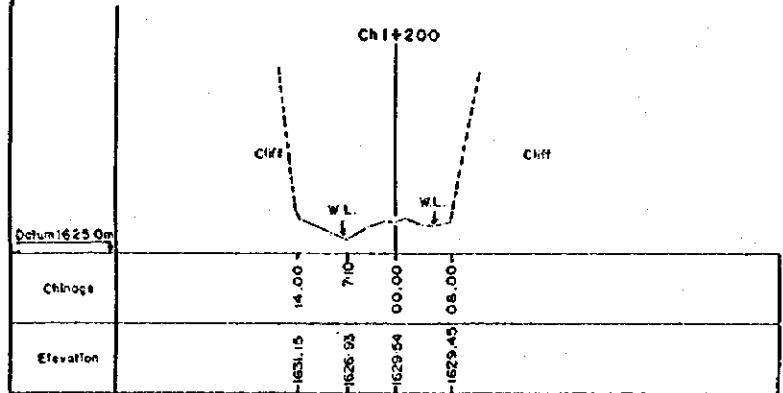
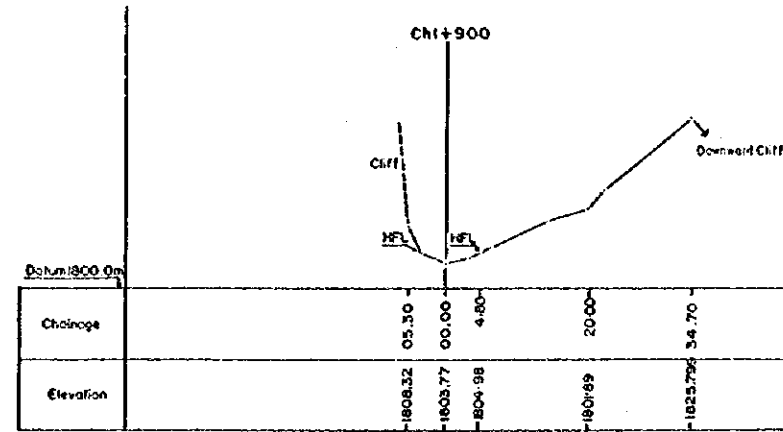
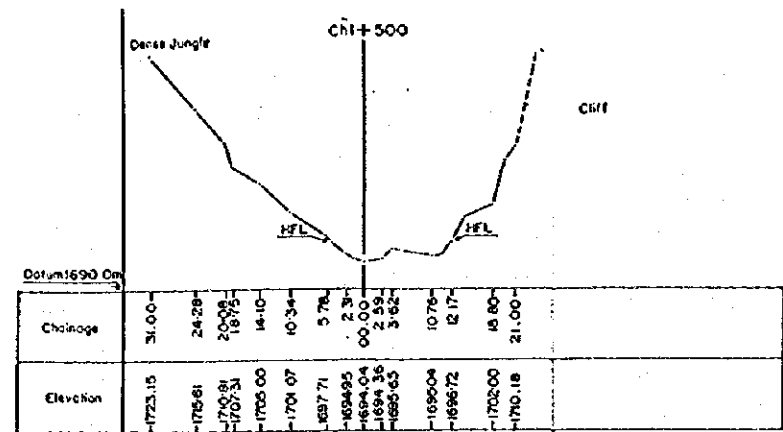
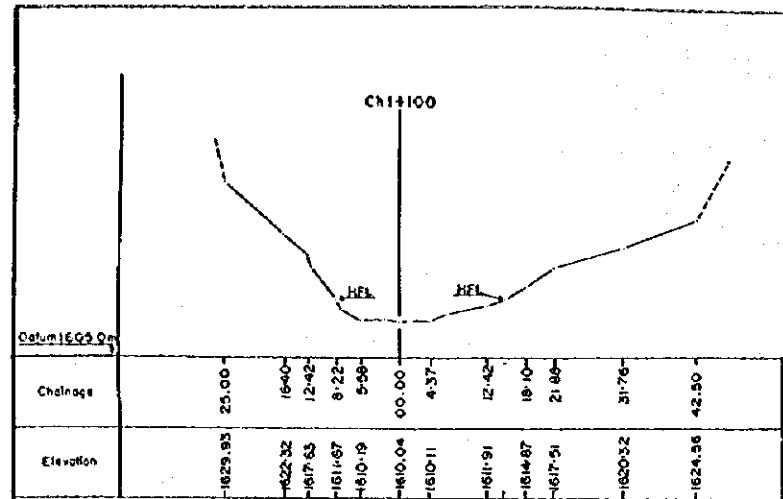
# L-SECTION OF CHISAPANI KHOLA (CHISAPANI)



<b>JICA / HMG</b>			
PROJECT DISASTER PREVENTION PROJECT			
CONSULTANT AUTO CARTO CONSULT			
CHISAPANI KHOLA CH 2+250 TO CH 3+200 (3/3)			
DISTRICT MAKAWANPUR	VDC AGRA	SURVEY CHECKED BY:-	
L-SECTION	M:- 1:2500 V:- 1:500	PLOTTING CHECKED BY:-	
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-	
MAP COMPLETED ON:-			

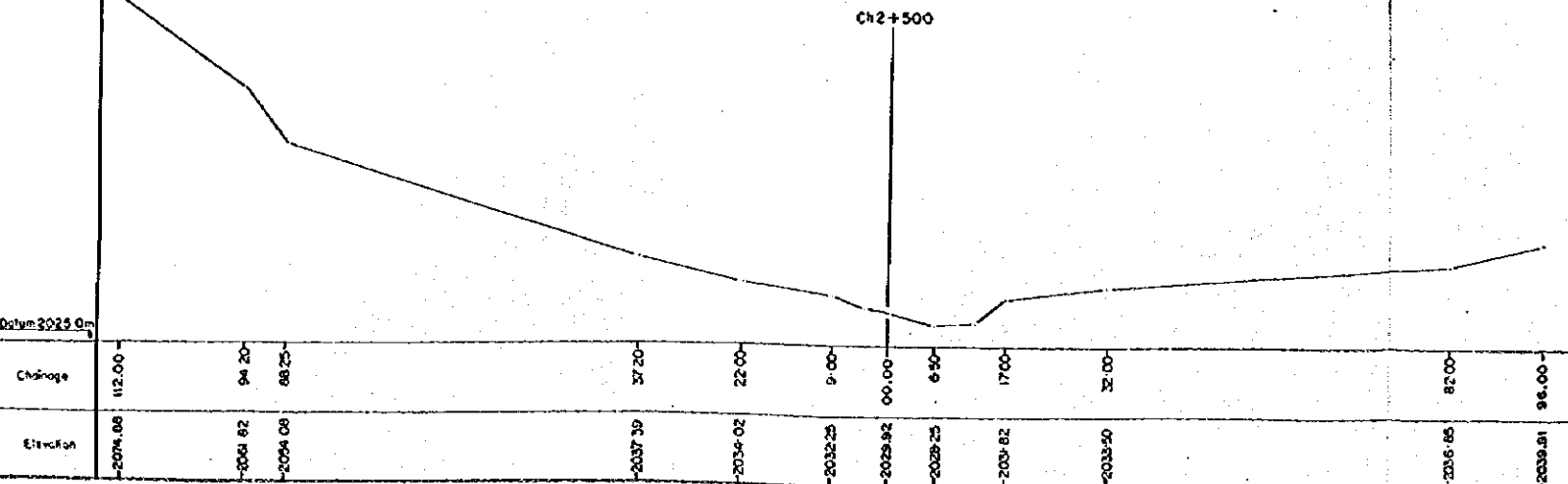
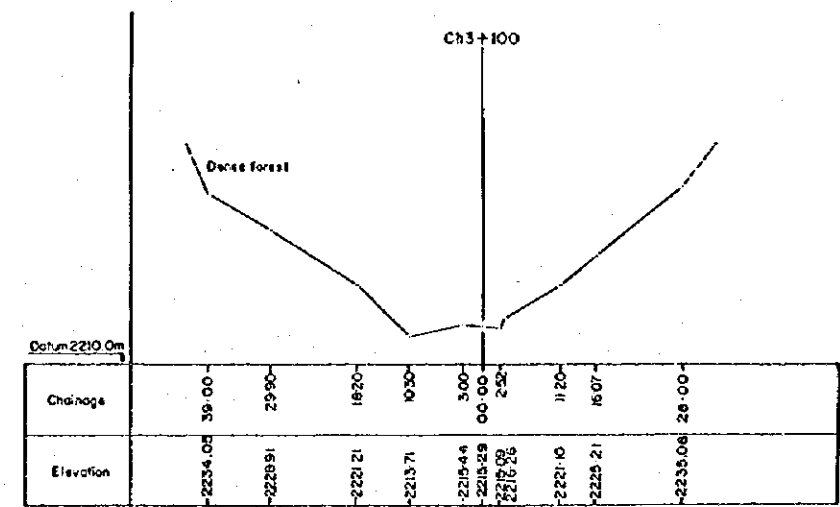
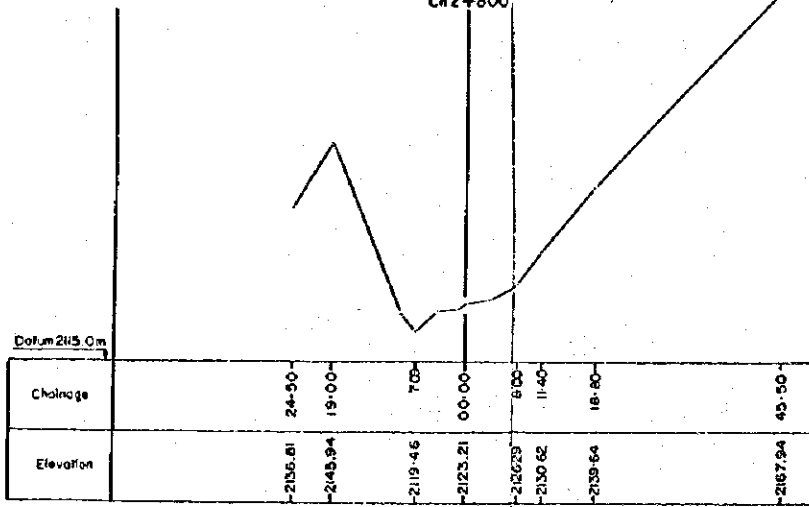
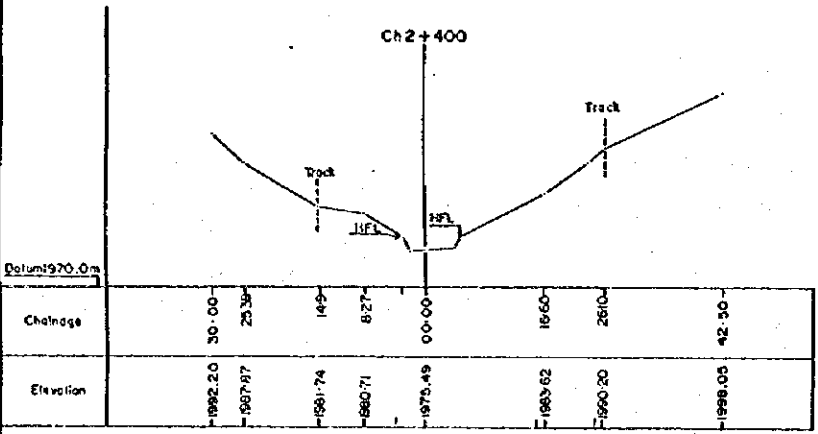
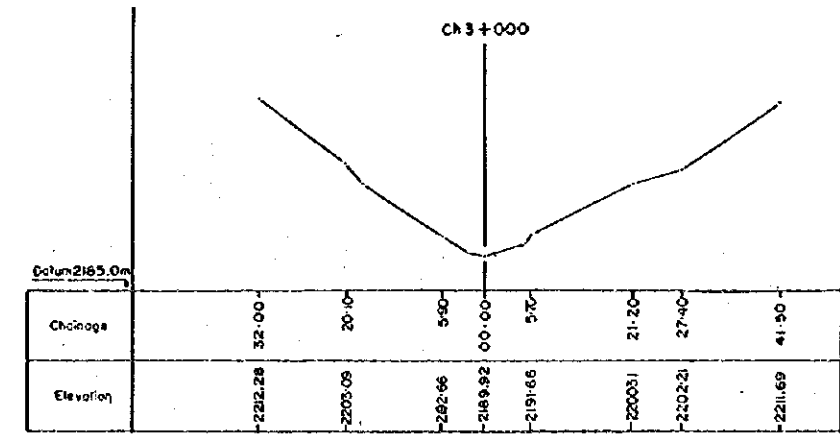
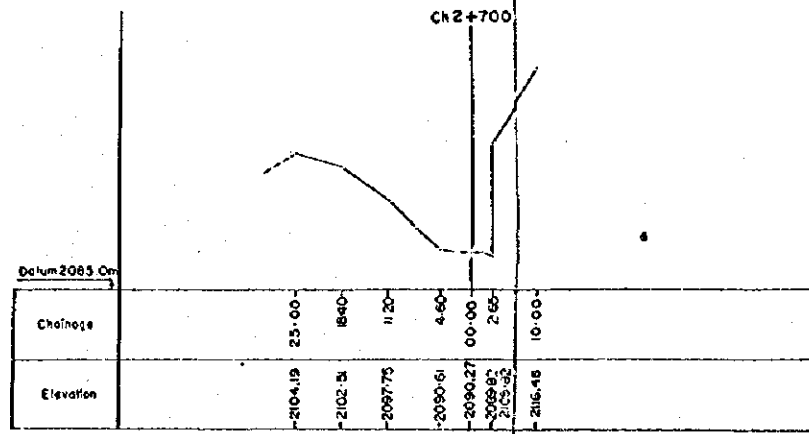
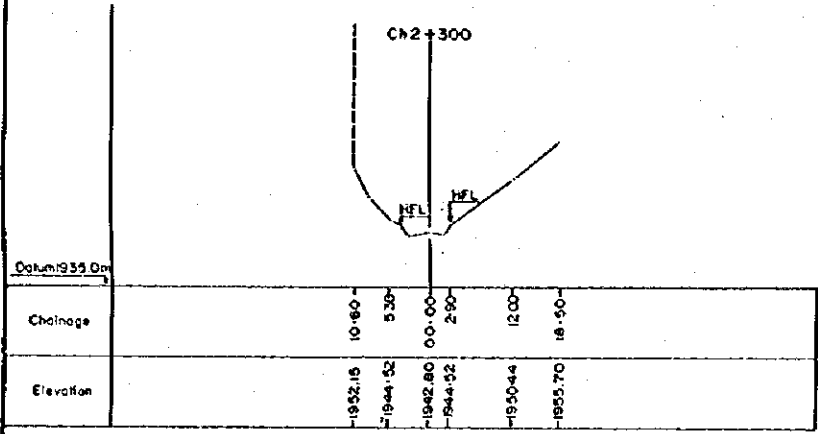
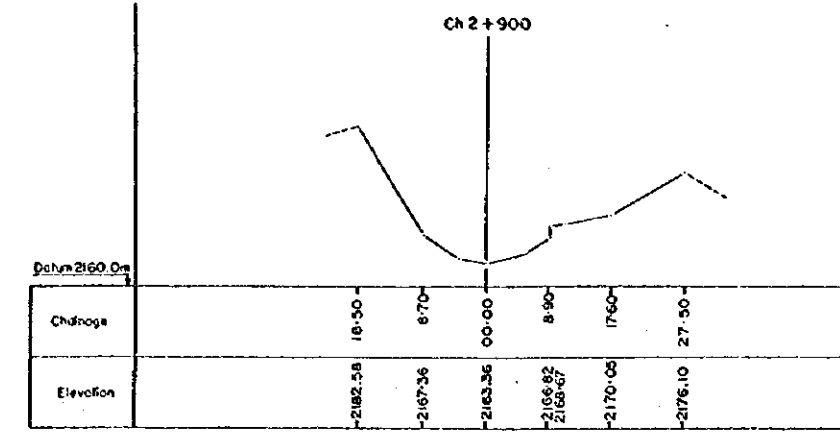
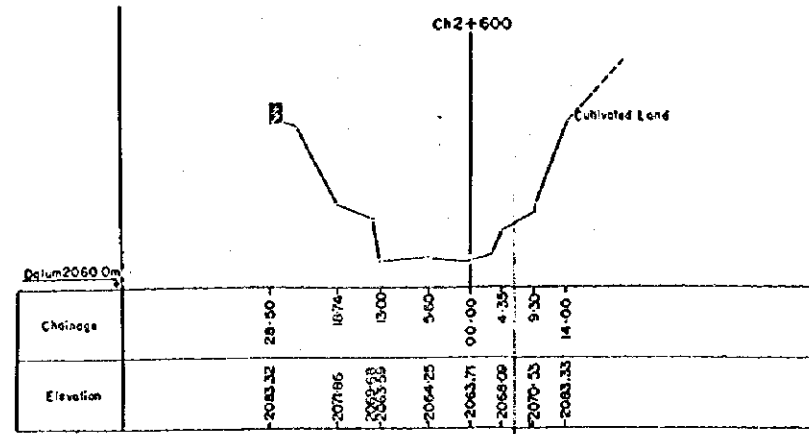
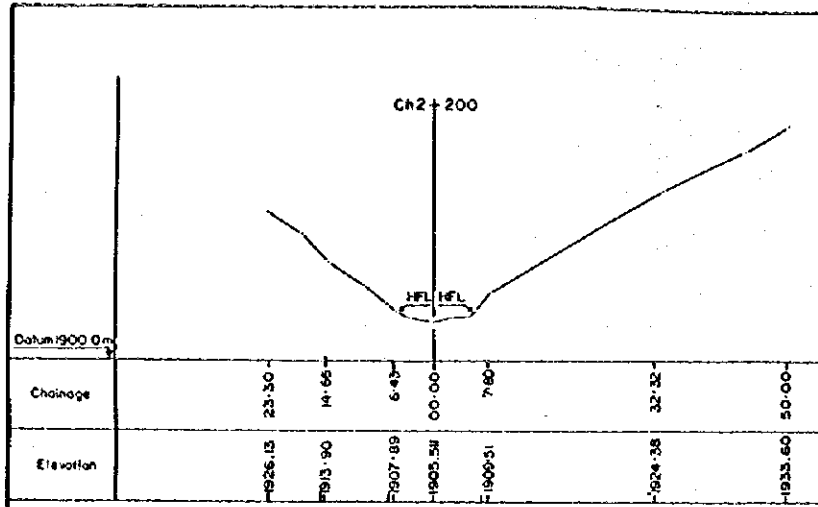


<b>JICA / HMG</b>			
PROJECT DISASTER PREVENTION PROJECT			
CONSULTANT AUTO CARTO CONSULT			
CHISAPANI KHOLA (1/4) CH 0+000 TO CH 1+000			
DISTRICT MAKAWAMPUR	VDC AAGRA	SURVEY CHECKED BY:-	
X-SECTION	N=1:500 V=1:500	PLOTING CHECKED BY:-	
SURVEY COMPLETED ON:-		DRAWING CHECKED BY:-	
MAP COMPLETED ON:-			



<b>JICA / HMG</b>		
PROJECT DISASTER PREVENTION PROJECT		
CONSULTANT AUTO CARTO CONSULT		
CHISAPANI KHOLA (2/4) CH 1 + 100 TO CH 2 + 100		
DISTRICT MAKAWANPUR	VDC AAGRA	SURVEY CHECKED BY:-
X-SECTION	H=1:500 V=1:500	PLOTING CHECKED BY:-
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-
MAP COMPLETED ON:-		

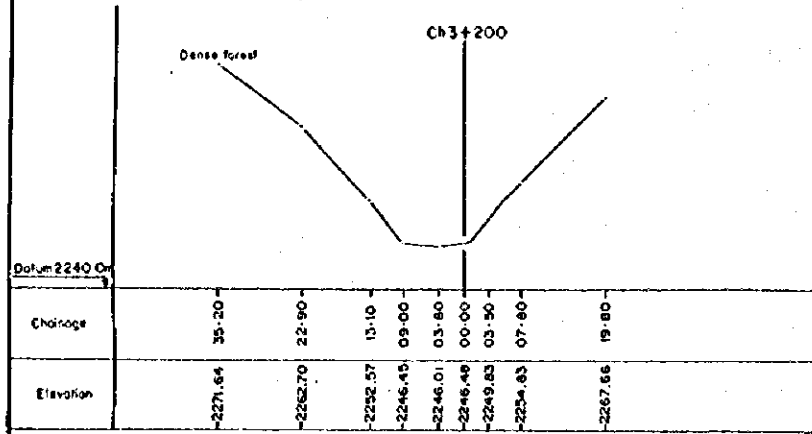




<b>JICA / HMG</b>		
PROJECT DISASTER PREVENTION PROJECT		
CONSULTANT AUTO CARTO CONSULT		
CHISAPAN KHOLA (3/4) CH 2 +200 TO CH 3 +100		
DISTRICT MAKHAANPUR	SCALE H:-1:500 V:-1:500	SURVEY CHECKED BY:-
X-SECTION		PLOTTING CHECKED BY:-
SURVEY COMMENCED ON:-		GRAPHS CHECKED BY:-
MAP COMPLETED ON:-		

# X SECTION OF CHISAPANI KHOLA

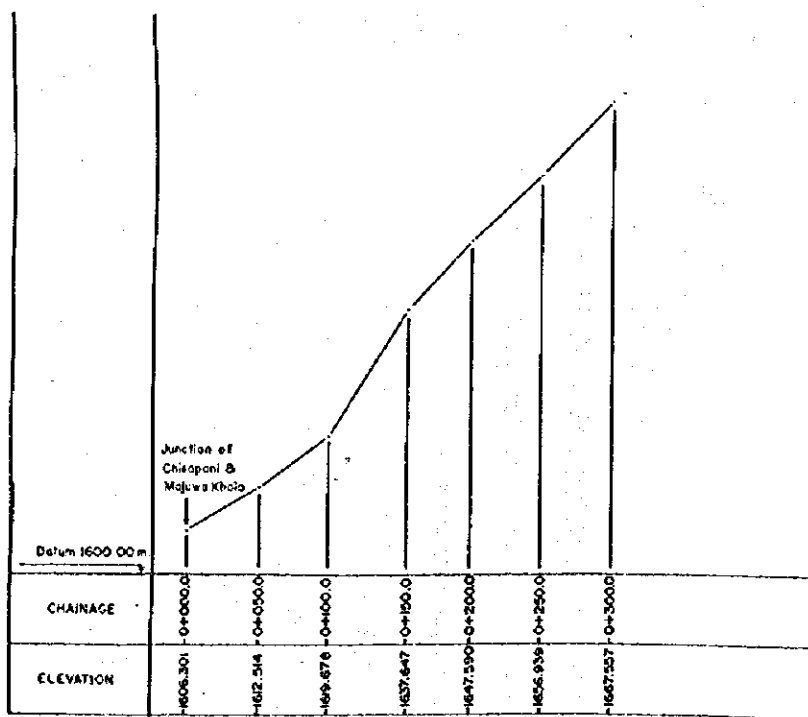
(CHISAPANI)



<b>JICA / HMG</b>		
PROJECT DISASTER PREVENTION PROJECT		
CONSULTANT AUTO CARTO CONSULT		
CHISAPANI KHOLA (4/4) CH 3+200		
DISTRICT MAKAWANPUR	VDC AAGRA	SURVEY CHECKED BY:-
X-SECTION	H:-1:500 V:-1:500	PLOTTING CHECKED BY:-
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-
MAP COMPLETED ON:-		

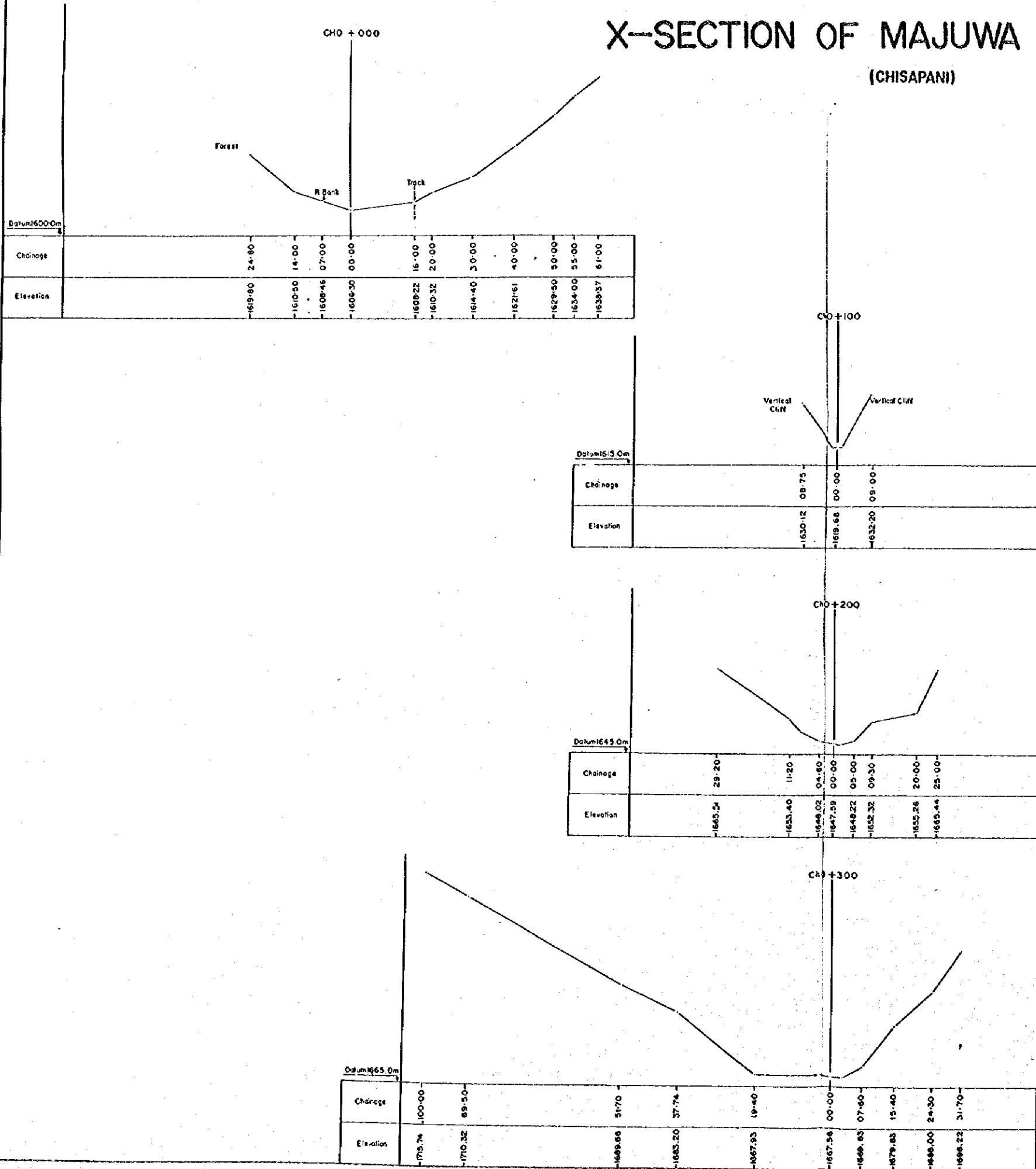
# L-SECTION OF MAJUWA KHOLA

(CHISAPANI)



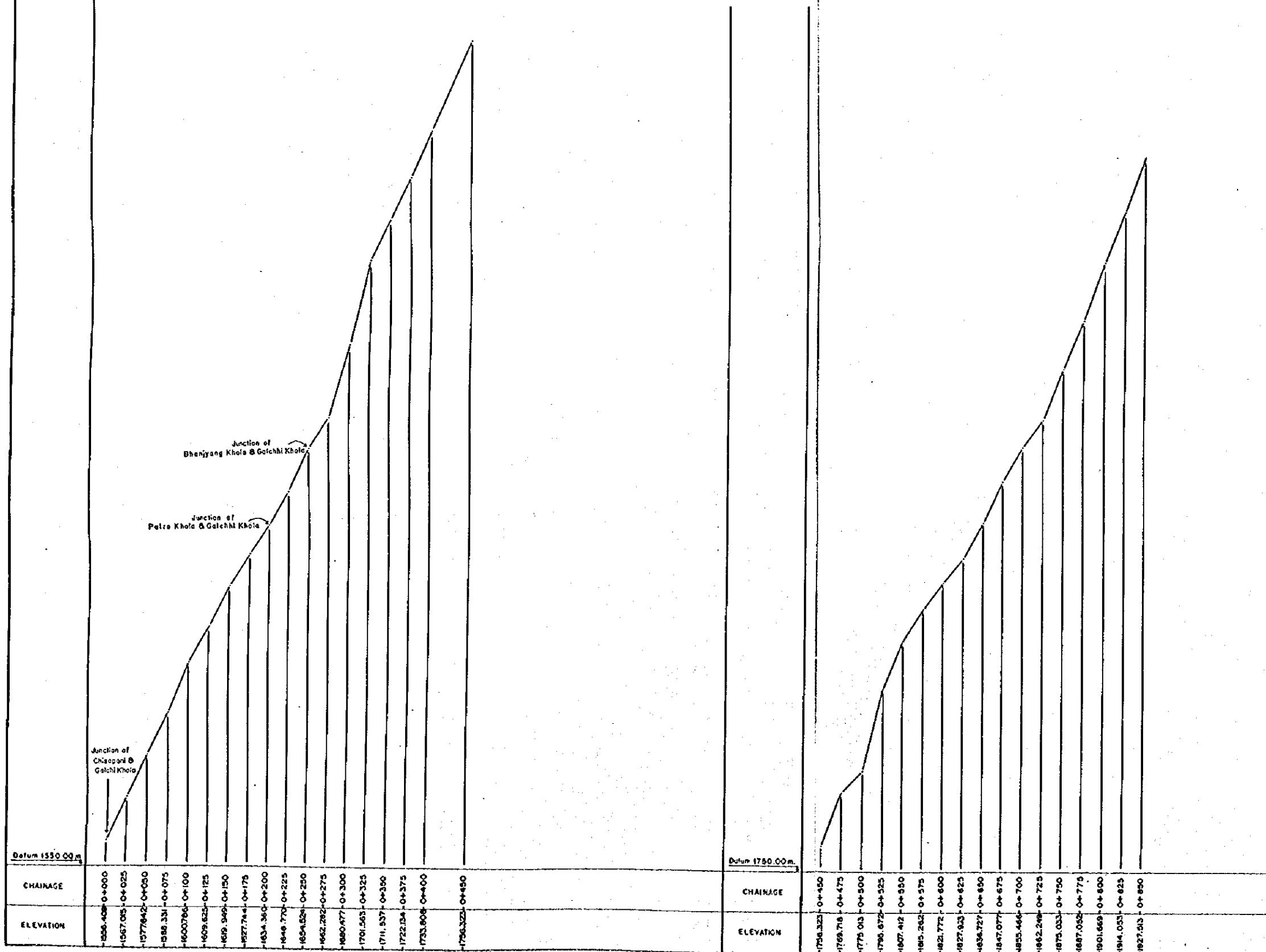
<b>JICA / HMG</b>		
PROJECT DISASTER PREVENTION PROJECT		
CONSULTANT AUTO CARTO CONSULT		
MAJUWA KHOLA (1/1) CH 0+000.0 TO CH 0+300.0		
DISTRICT MAKUANPUR	VDC ACRA	SURVEY CHECKED BY:-
L-SECTION	H:- 1:2500 V:- 1:500	PLOTTING CHECKED BY:-
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-
MAP COMPLETED ON:-		

# X-SECTION OF MAJUWA KHOLA (CHISAPANI)



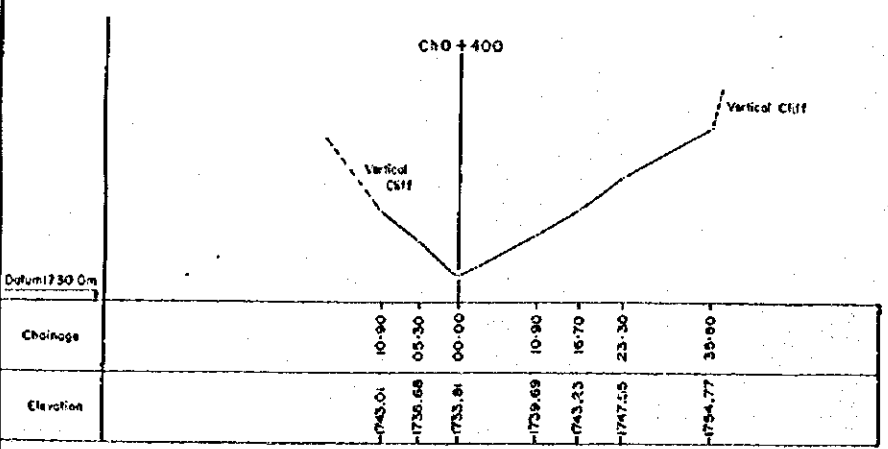
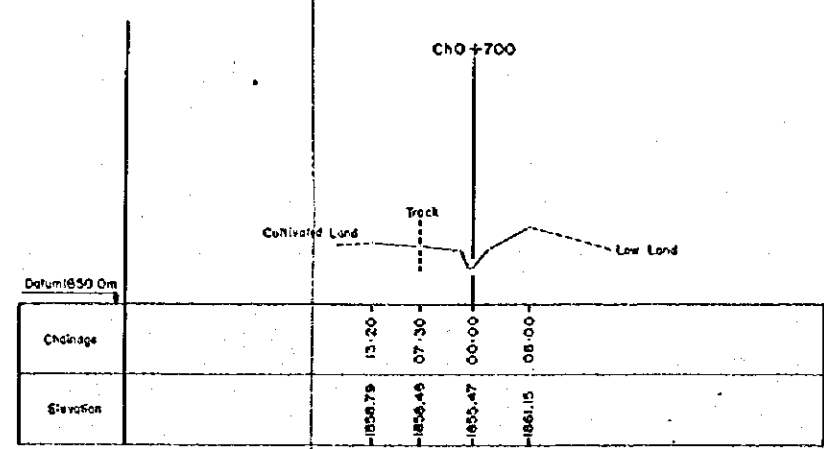
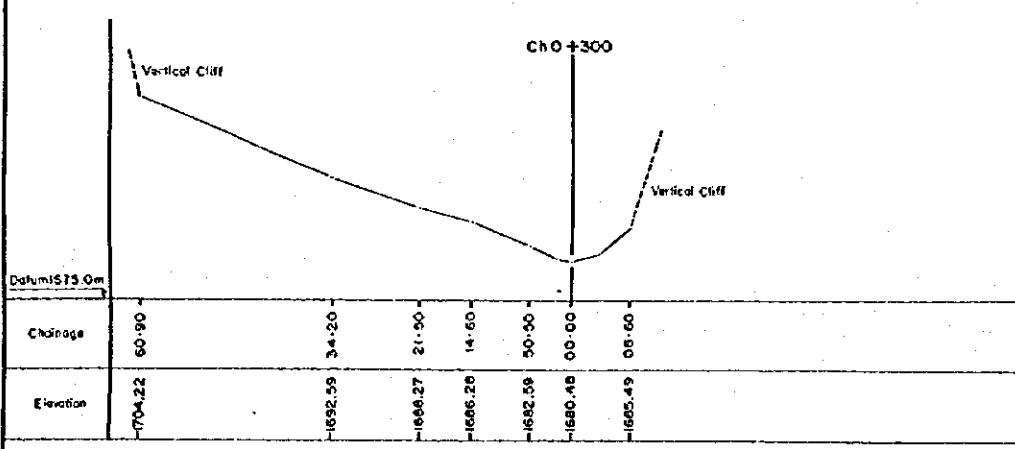
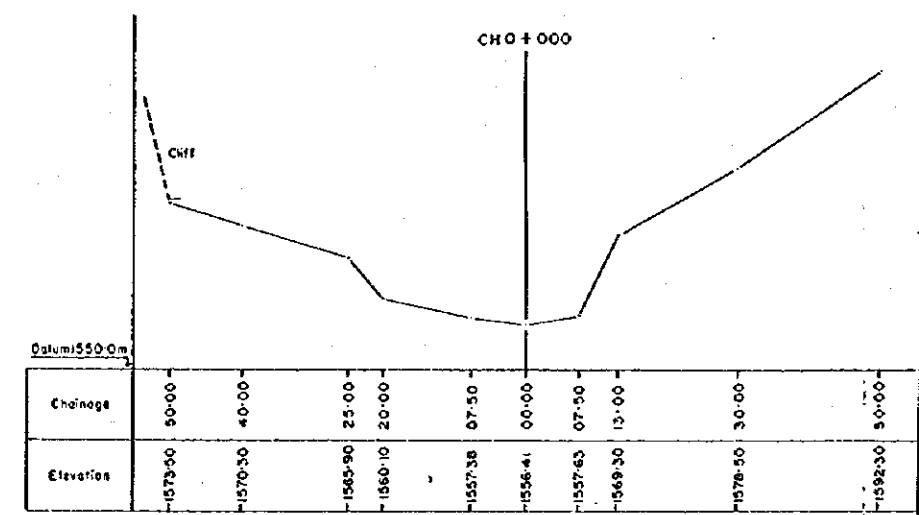
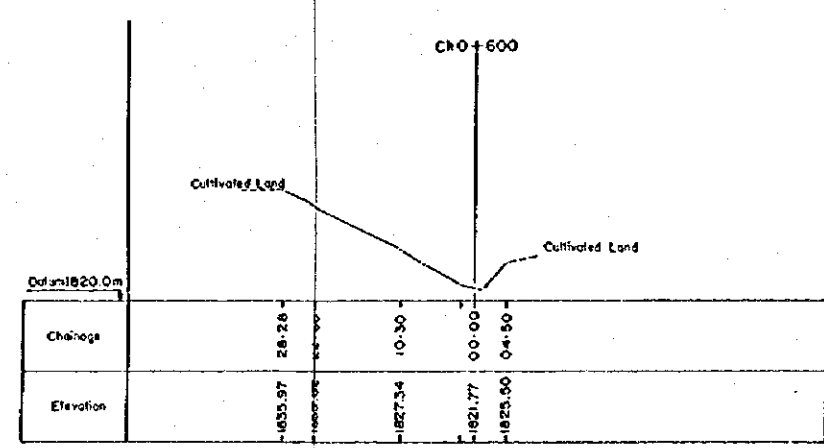
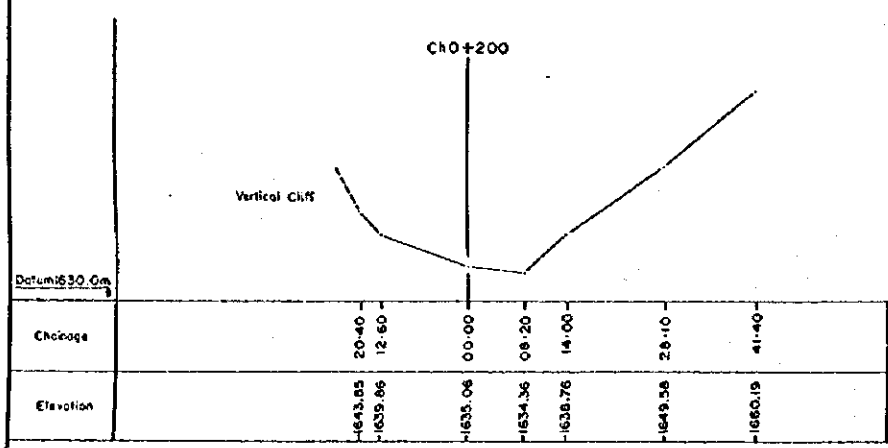
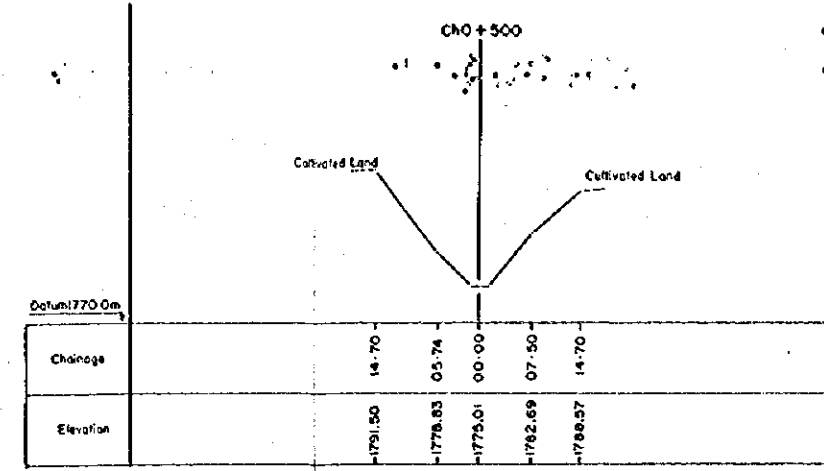
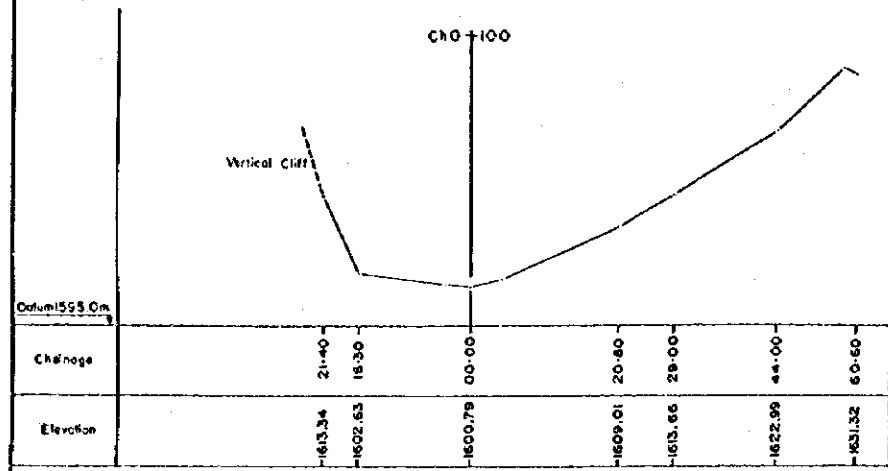
<b>JICA / HMG</b>			
PROJECT DISASTER PREVENTION PROJECT			
CONSULTANT AUTO CARTO CONSULT			
CH 0+000 TO CH 0+300 (MAJUWA KHOLA) (1/1)			
DISTRICT MAKAWANPUR	VDC AGRA	SURVEY CHECKED BY:-	
X-SECTION	N:-1:500 V:-1:500	PLOTTING CHECKED BY:-	
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-	
MAP COMPLETED ON:-			

# L-SECTION OF GALCHHI KHOLA (CHISAPANI)



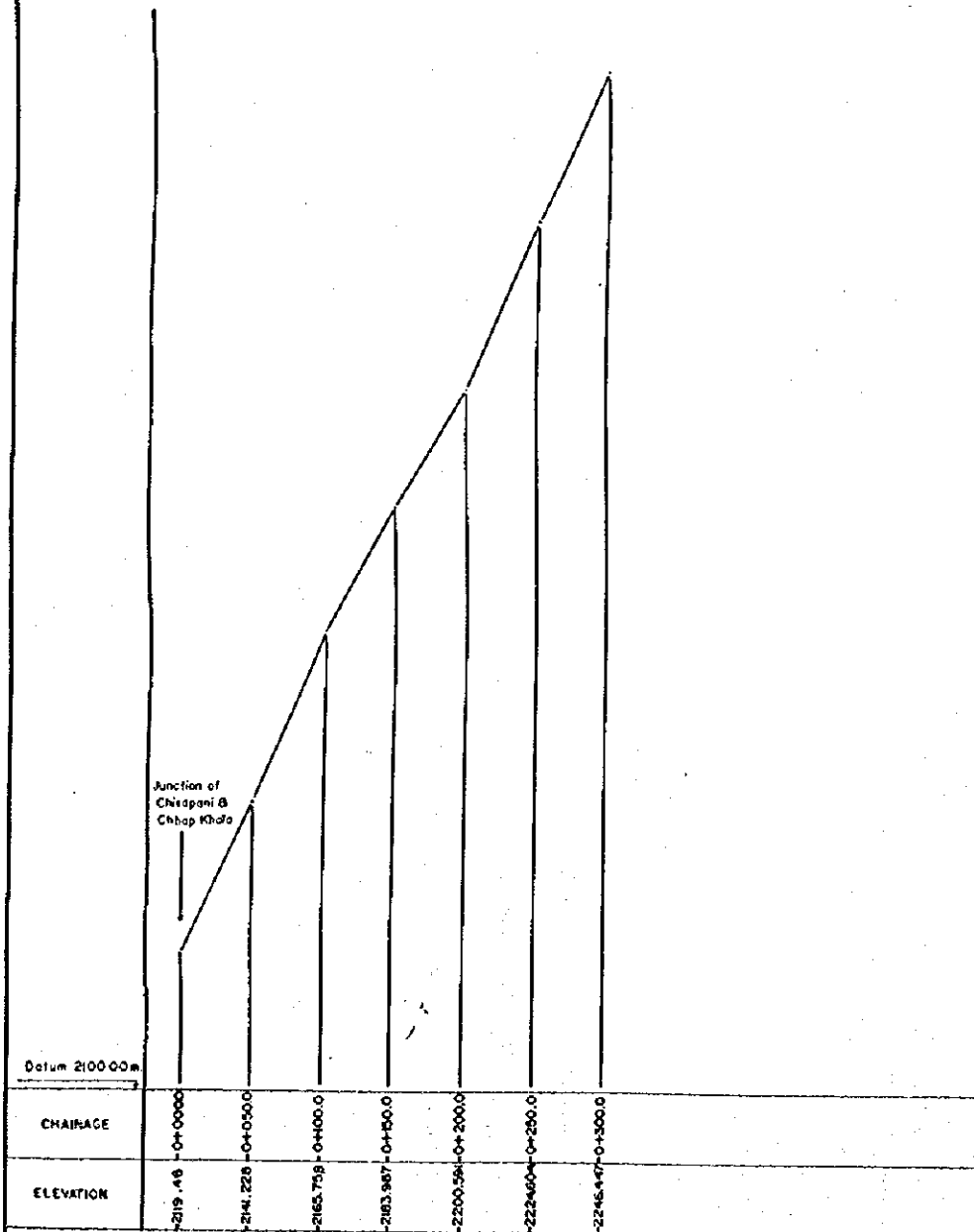
<b>JICA / HMG</b>			
PROJECT <b>DISASTER PREVENTION PROJECT</b>			
CONSULTANT <b>AUTO CARTO CONSULT</b>			
GALCHHI KHOLA (1/1) CH 0+000 TO CH 0+850			
DISTRICT <b>MAKARAPUR</b>	VDC <b>AGRA</b>	SURVEY CHECKED BY:-	
<b>L-SECTION</b>	H: 12500 V: 1500	FLOTTING CHECKED BY:-	
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-	
MAP COMPLETED ON:-			

# X-SECTION OF GALCHHI KHOLA (CHISAPANI)

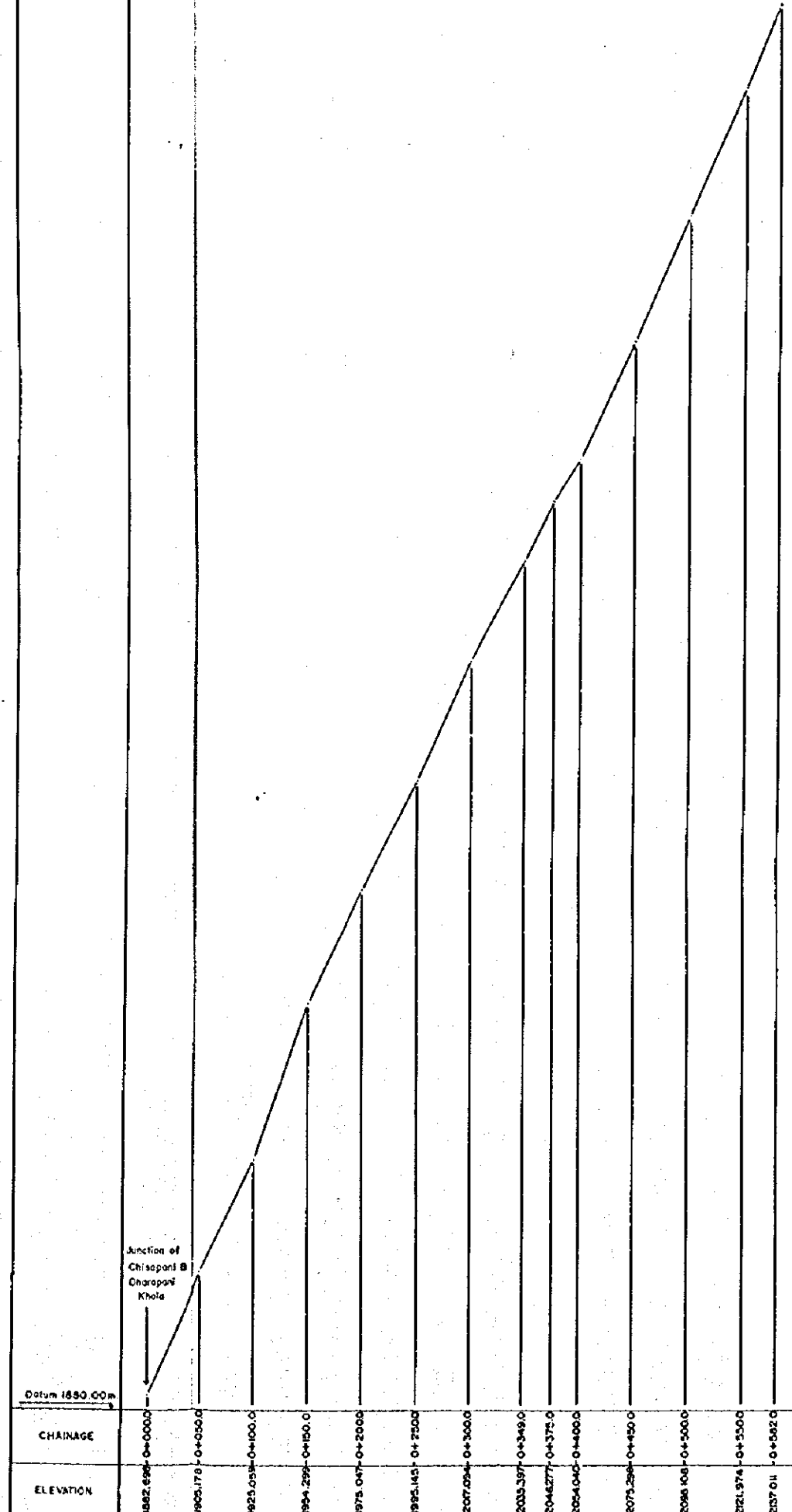


<b>JICA / HMG</b>			
PROJECT DISASTER PREVENTION PROJECT			
CONSULTANT AUTO CARTO CONSULT			
CH 0 + 000 TO CH 0 + 700 (GALCHHI KHOLA) (1/1)			
DISTRICT MAKARAPUR	VDC AGRA	SURVEY CHECKED BY :-	
X-SECTION	H:-1:500 V:-1:500	PLOTTING CHECKED BY :-	
SURVEY COMMENCED ON :-		DRAWING CHECKED BY :-	
MAP COMPLETED ON :-			

# L-SECTION OF CHHAP KHOLA (CHISAPANI)

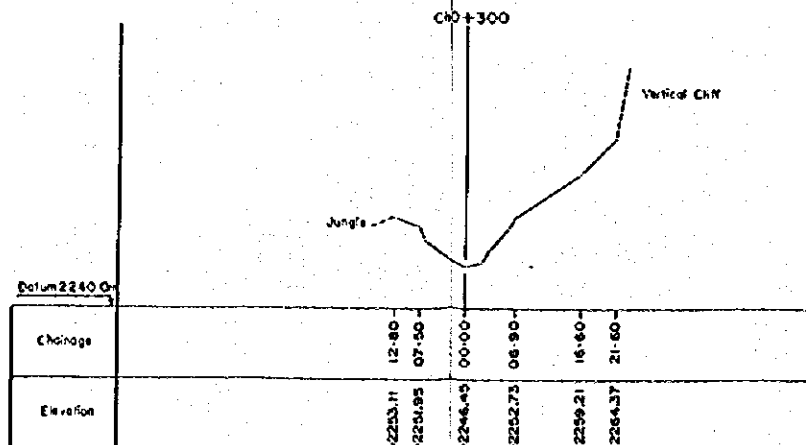
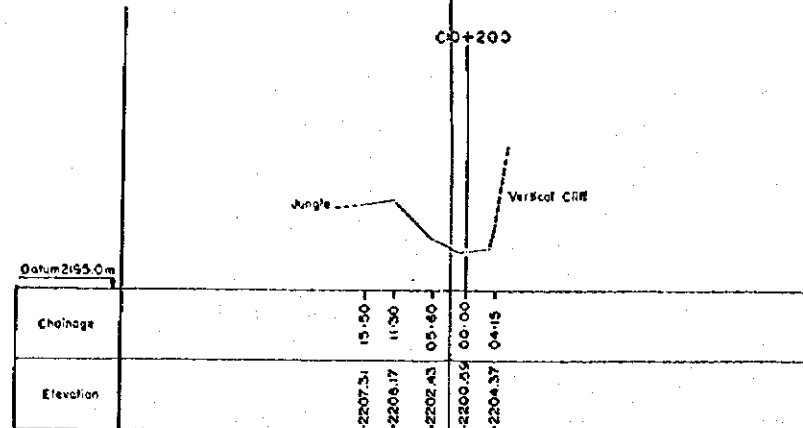
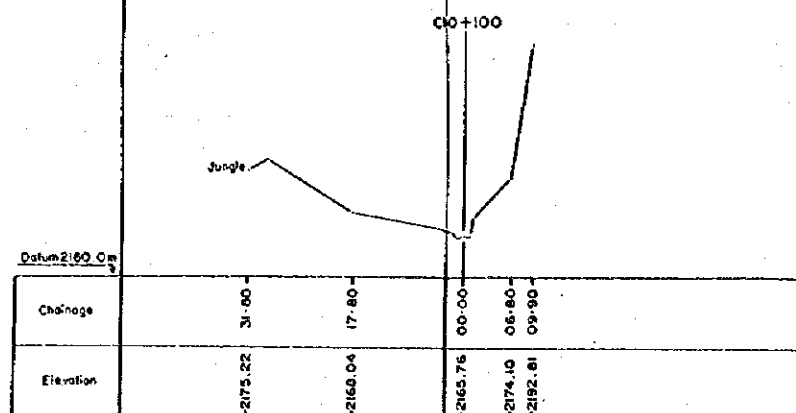
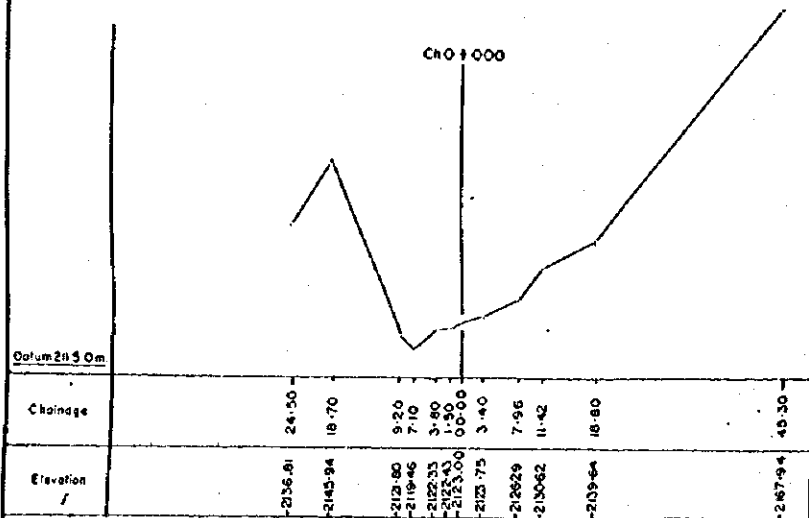


# L-SECTION OF DHARAPANI KHOLA (CHISAPANI)



<b>JICA / HMG</b>			
PROJECT DISASTER PREVENTION PROJECT			
CONSULTANT AUTO CARTO CONSULT			
CH 0+000.0 TO CH 0+300.0 (CHHAP KHOLA) (1/1) CH 0+000.0 TO CH 0+582.0 (DHARAPANI KHOLA)			
DISTRICT MAKHAVANPUR	VDC AGRA	SURVEY CHECKED BY:-	
L-SECTION	H> 1:2500 V> 1:500	PLOTTING CHECKED BY:-	
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-	
MAP COMPLETED ON:-			

# X-SECTION OF CHHAP KHOLA (CHISAPANI)

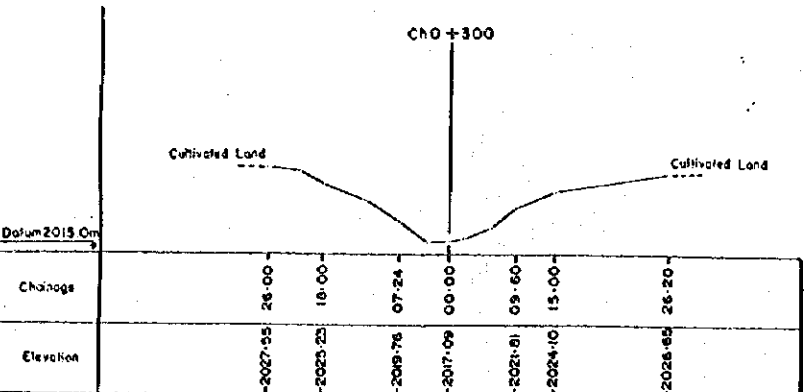
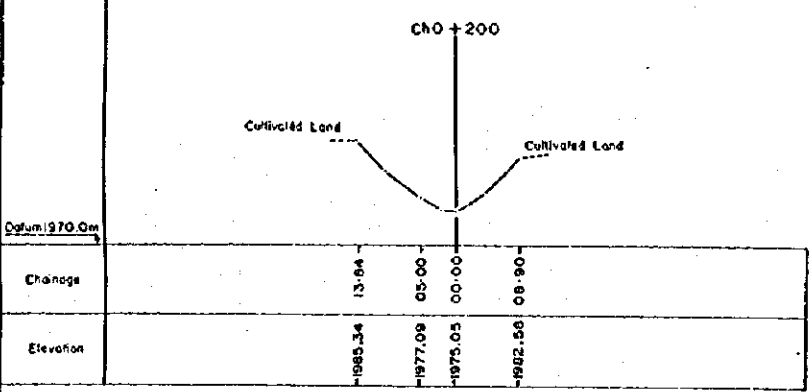
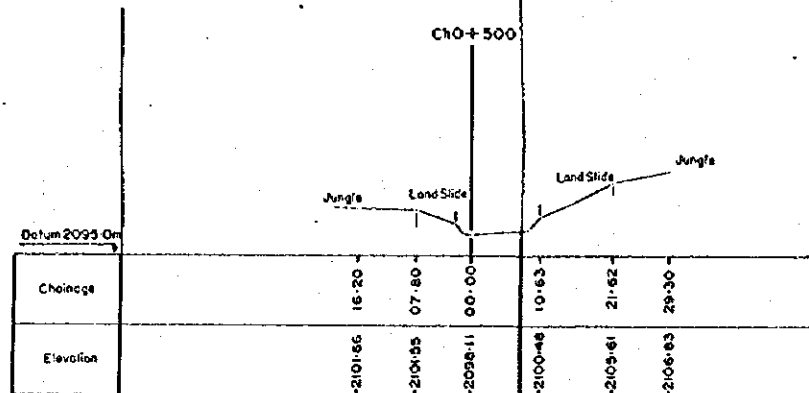
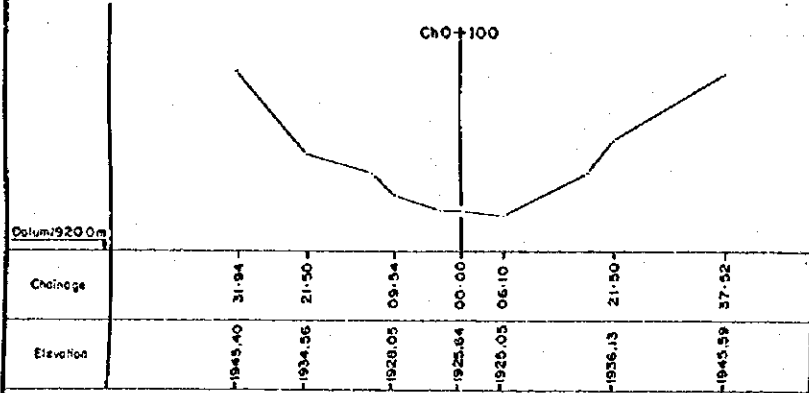
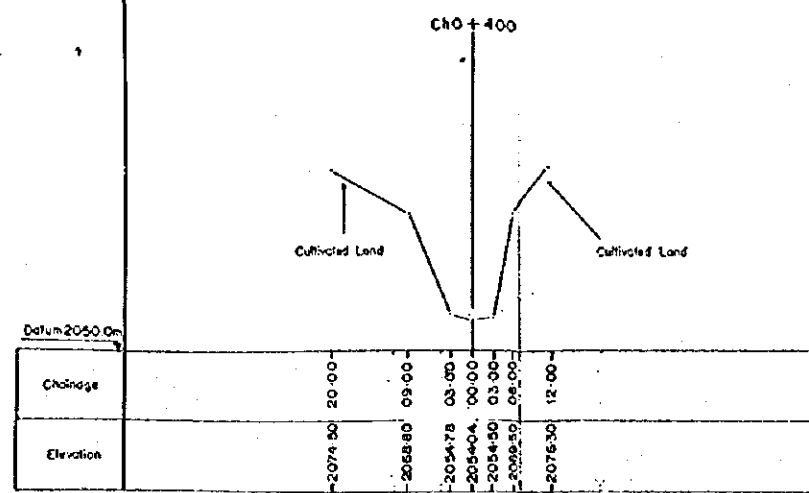
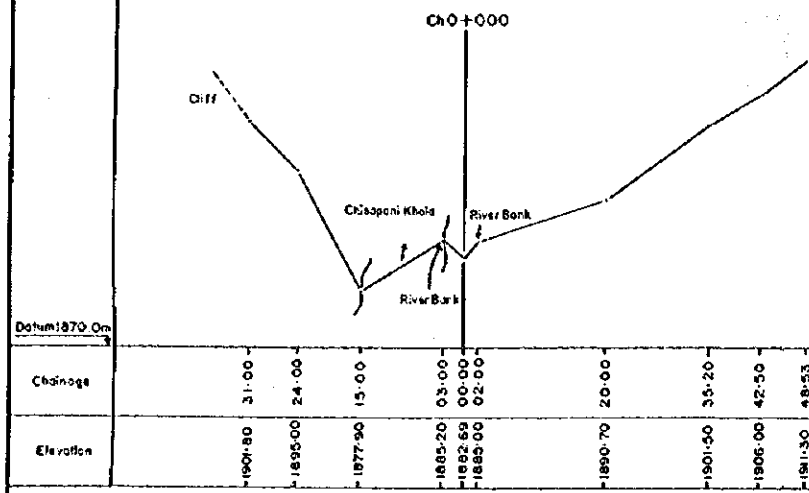


<b>JICA / HMG</b>			
PROJECT DISASTER PREVENTION PROJECT			
CONSULTANT AUTO CARTO CONSULT			
CH 0+000 TO CH 0+300 ( CHHAP KHOLA ) (1/1)			
DISTRICT MAKARAPUR	VDC AAGRA	SURVEY CHECKED BY:-	
X - SECTION		PLOTING CHECKED BY:-	
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-	
MAP COMPLETED ON:-			



# X-SECTION OF DHARAPANI KHOLA

(CHISAPANI)



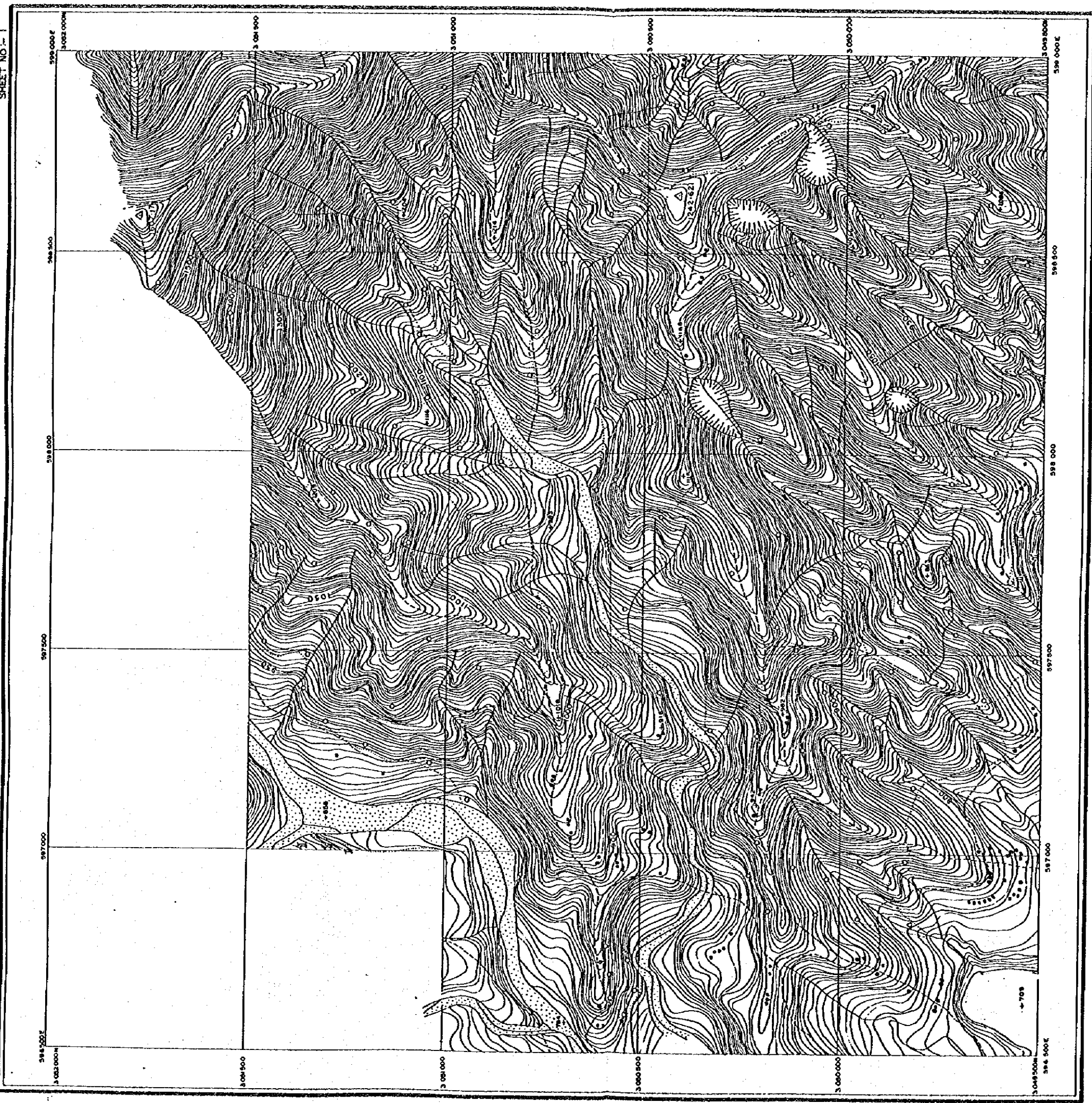
<b>JICA / HMG</b>			
PROJECT DISASTER PREVENTION PROJECT			
CONSULTANT AUTO CARTO CONSULT			
CH 0 + 000 TO CH 0 + 500 (DHARAPANI KHOLA) (1/M)			
DISTRICT MAKANPUR	VOC AGRA	SURVEY CHECKED BY:-	
X - SECTION	H:-1:500 V:-1:500	PLOTTING CHECKED BY:-	
SURVEY COMMENCED ON:-		DRAWING CHECKED BY:-	
MAP COMPLETED ON:-			



# NAMTAR

SCALE: 1:5000

SHEET NO. 1

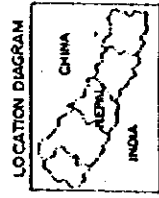


## LEGEND

Metalled road with bridge	Forest area
Track with foot bridge	Low ridge
Road	Contour
Trackway, Road	Spot height
River with steep bank	Beach Mark
River, Khole	Cliff
Gravel bed	Waterfall
Arche, Burial	Triangulation Control Point

SCALE 1:5000

METRES 0 100 200 300 400 500 600 METRES  
CONTOUR INTERVAL: 5.00 METRES



SHEET INDEX

1	2
3	4

### PROJECTION AND DATUM

Grid : Indian UTM Zone 48S  
 X-Offset : 0m (10,000 metres)  
 Y-Offset : 500 (500 000 000 metres)  
 Vertical datum : Indian Height Datum

## JICA / HMG

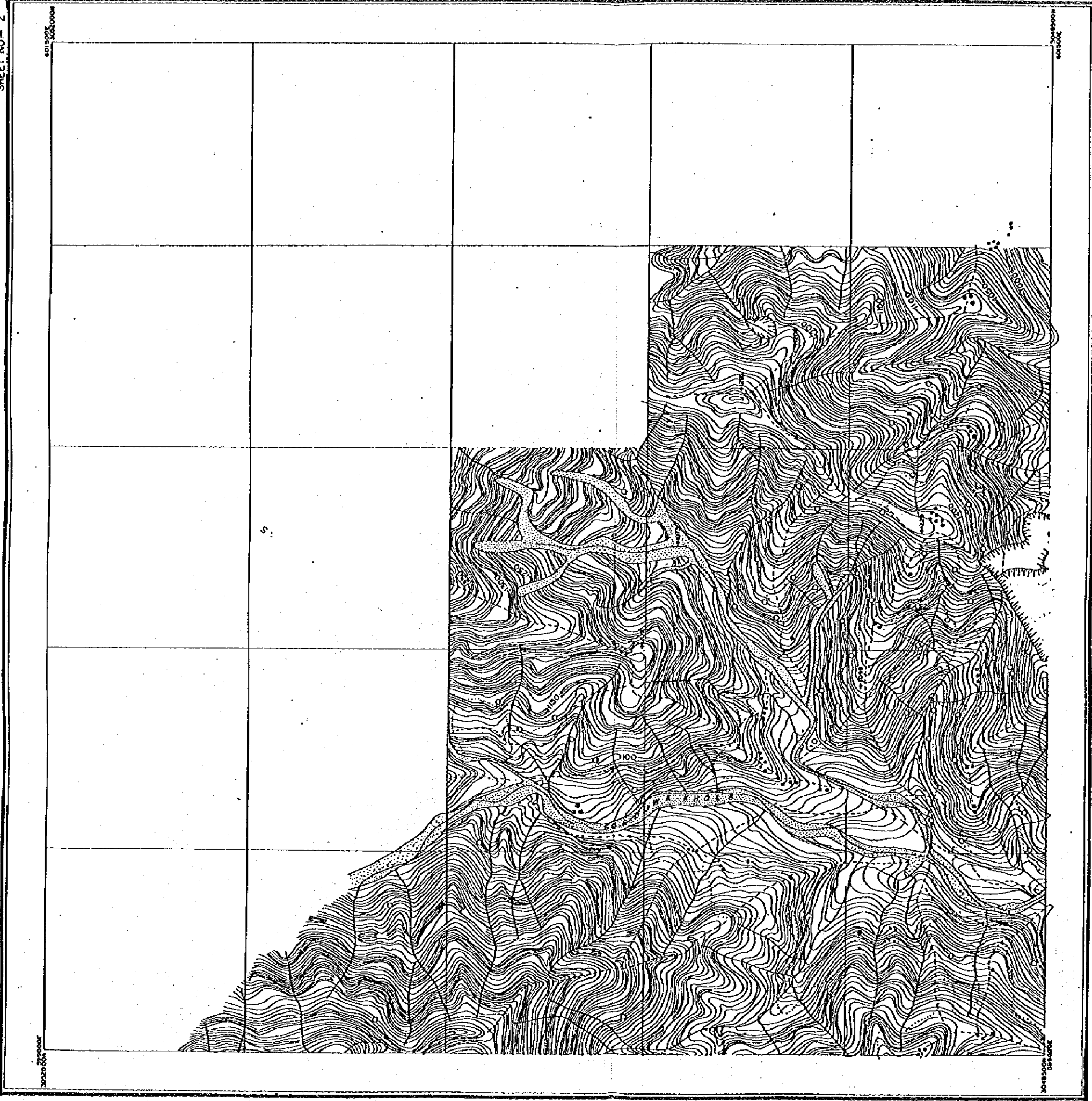
PROJECT	
DISASTER PREVENTION PROJECT	
CONSULTANT	
AUTO CARTO CONSULT	
DISTRICT	SURVEY CHECKED BY:-
MANAMGARH	NAMTAR
TOPOGRAPHICAL MAP	SCALE: 1:5000
SURVEY COMPLETED ON:-	CL: 1/5 m
MAP COMPLETED ON:-	PLOTTING CHECKED BY:-
	DRAWING CHECKED BY:-



# NAMTAR

SCALE = 1:5000

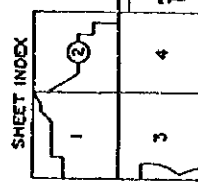
SHEET NO. - 2



## LEGEND

	Motorway road with bridge		Track with flat bridge
	River		Stream
	Drainage line		Boundary
	Road with steep banks		Road with steep banks
	Road with steep banks		Road with steep banks
	Road with steep banks		Road with steep banks
	Road with steep banks		Road with steep banks
	Road with steep banks		Road with steep banks
	Road with steep banks		Road with steep banks
	Road with steep banks		Road with steep banks

SCALE 1:5000



## PROJECTION AND DATUM

Grid : Indian UTM Zone 48-S  
 X Origin : 27°N (1000000m East)  
 Y Origin : 84°E (5000000m North)  
 Vertical Datum : Mean Sea Level Datum

## JICA/HMG

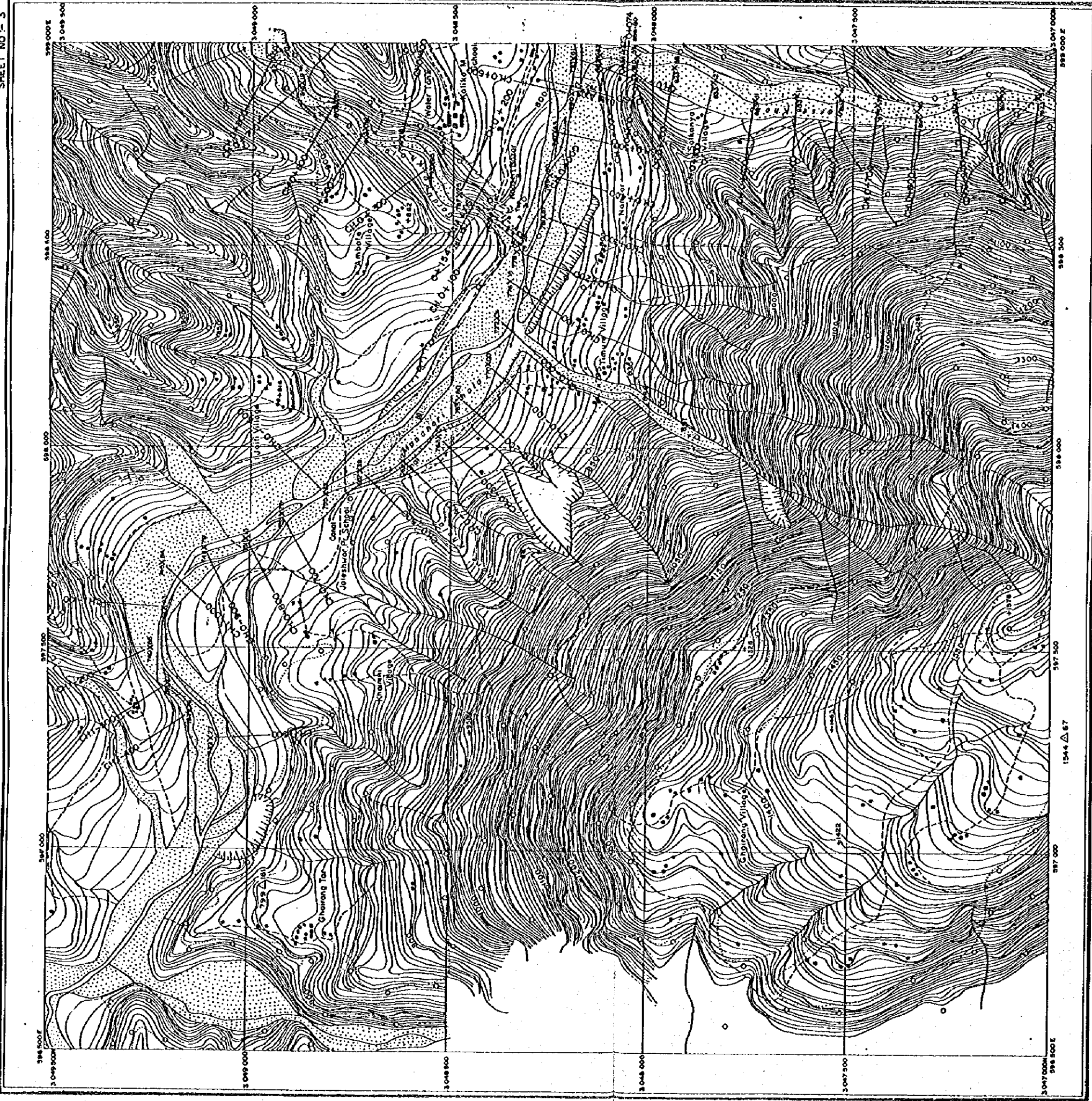
PROJECT  
 DISASTER PREVENTION PROJECT  
 CONSULTANT  
 AUTO CARTO CONSULT

DISTRICT NARAYANPUR	VOC NAMTAR	SURVEY CHECKED BY:-
TOPOGRAPHICAL MAP SCALE: 1:5000 C-15-5a	SURVEY COMPLETED ON:-	PLOTTING CHECKED BY:-
MAP COMPLETED ON:-		DRAWING CHECKED BY:-

# NAMTAR

SCALE: 1:15,000

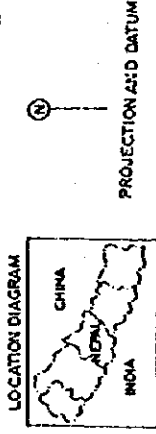
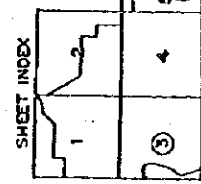
SHEET NO. 3



## LEGEND

	Motor road		Road with foot bridge
	River		Irrigated area
	Forest with stone steps		Cliff
	Marsh, Mounds		Well
	Gravel road		Transmission Control Post
	Road, Gravel		Control Post

SCALE 1:15,000



PROJECTION AND DATUM  
 Grid: Modified UTM Zone 48S  
 X-Offset: 100m (0.000000metres)  
 Y-Offset: 4000000.000000metres  
 Vertical datum: Mean Sea Level Datum

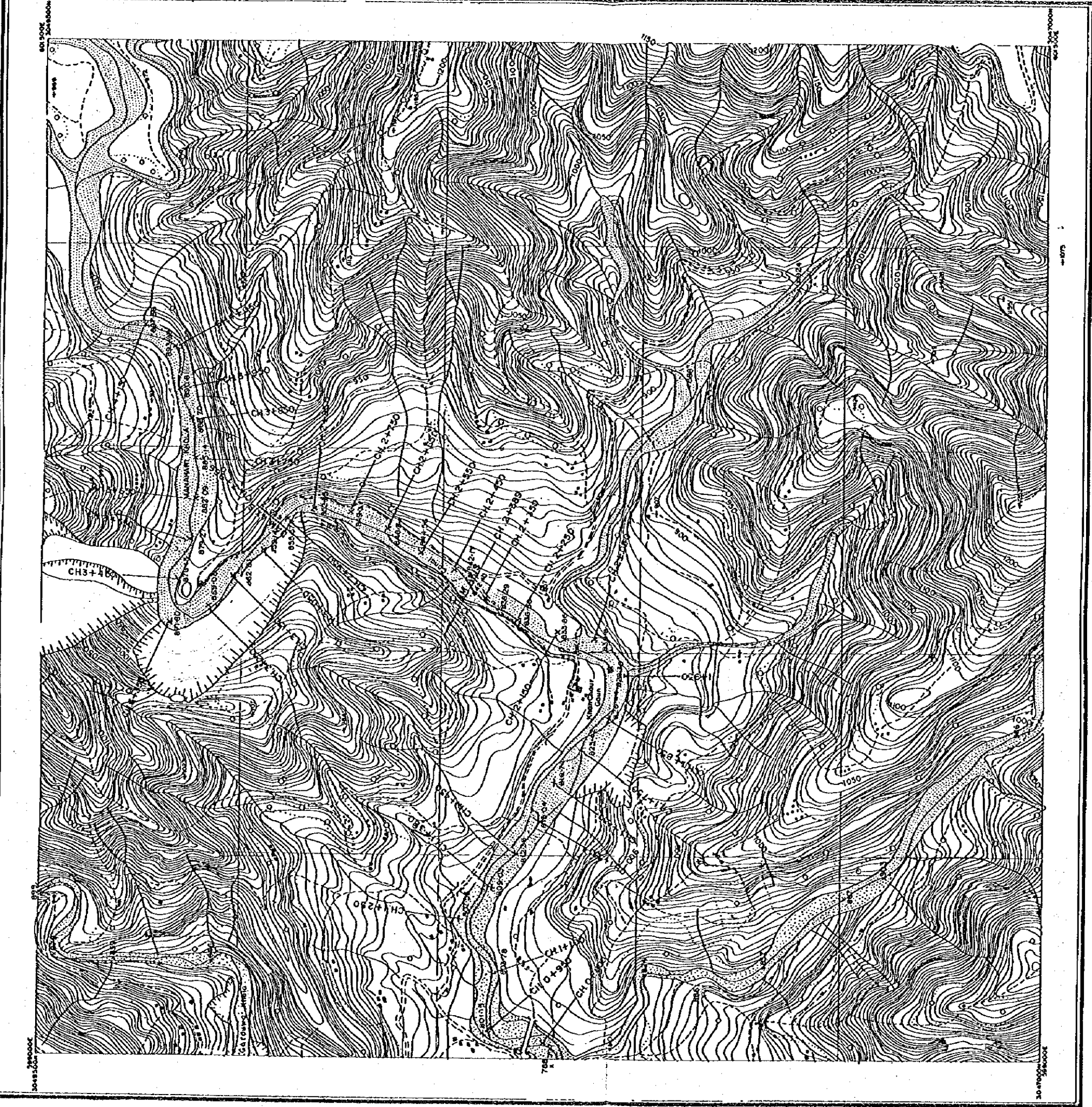
PROJECT DISASTER PREVENTION PROJECT		CONSULTANT	
		AUTO CARTO CONSULT	
DISTRICT NAMAMAPUR	VOC	SURVEY CHECKED BY:-	
	NAMTAR	PLATTING CHECKED BY:-	
TOPOGRAPHICAL MAP	SCALE: 1:15,000	DRAWING CHECKED BY:-	
SURVEY COMPLETED ON:-		MAP COMPLETED ON:-	



# NAMTAR

SCALE:- 1:5000

SHEET NO :- 4



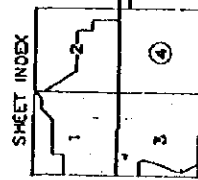
## LEGEND

Intermittent road with bridge	Permanent area
Track with leaf bridge	Low land
None	Contour
Isolated tree, Bamboo	Spot height
River with stone bank	Break mark
Cliff, Shale	Cliff
Gravel road	Watermark
Road, Bitumen	Triangulation Control Post

SCALE 1:5000

100 200 300 400 500 600 METRES

CONTOUR INTERVAL: 100 METRES



PROJECTION AND DATUM  
 GRS : Everest UTM Zone 48S  
 X-Offset : 50% (500000metres)  
 Y-Offset : 4% (500000.000metres)  
 Vertical datum : Mean High Water

JICA / HMG

PROJECT		DISASTER PREVENTION PROJECT	
CONSULTANT		AUTO CARTO CONSULT	
DISTRICT	N/C	SURVEY CHECKED BY:-	
MAKAWANPUR	NAMTAR	PLOTTING CHECKED BY:-	
TOPOGRAPHICAL MAP	SCALE: 1:5000	DRAWING CHECKED BY:-	
SURVEY COMMENCED ON:-	C.L.S.M.		
MAP COMPLETED ON:-			