

THE STUDY ON CONSTRUCTION OF DAM
IN MALEWA RIVER SYSTEM
FOR
GREATER NAKURU WATER SUPPLY PROJECT

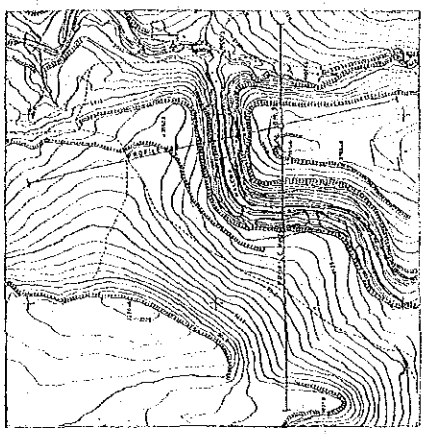
RIVER CROSS SECTION SURVEY

Scale H = 1 : 500
V = 1 : 500

MALEWA RIVER



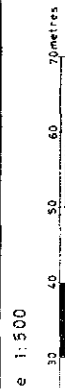
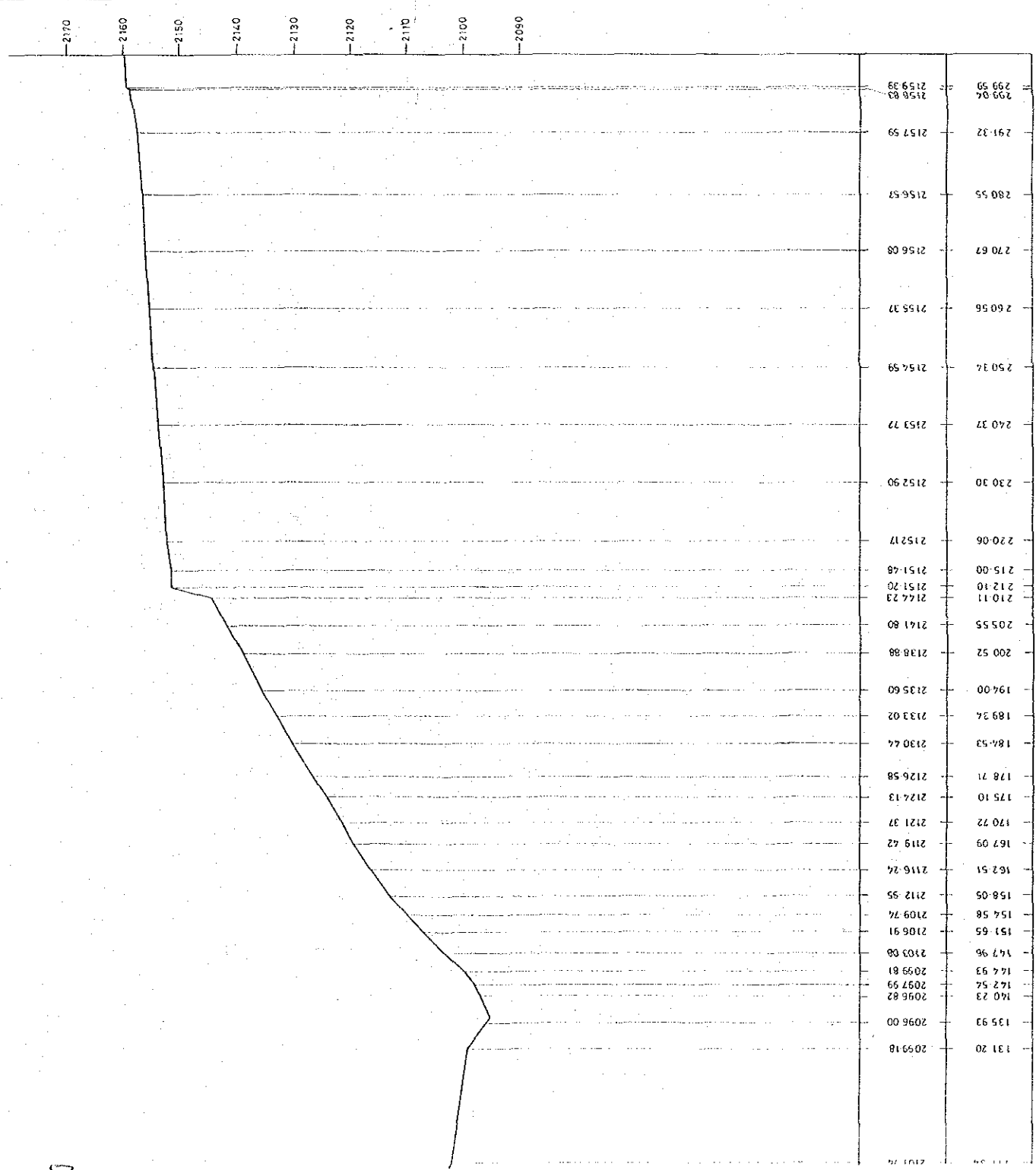
INDEX MAP
Scale 1 : 10,000



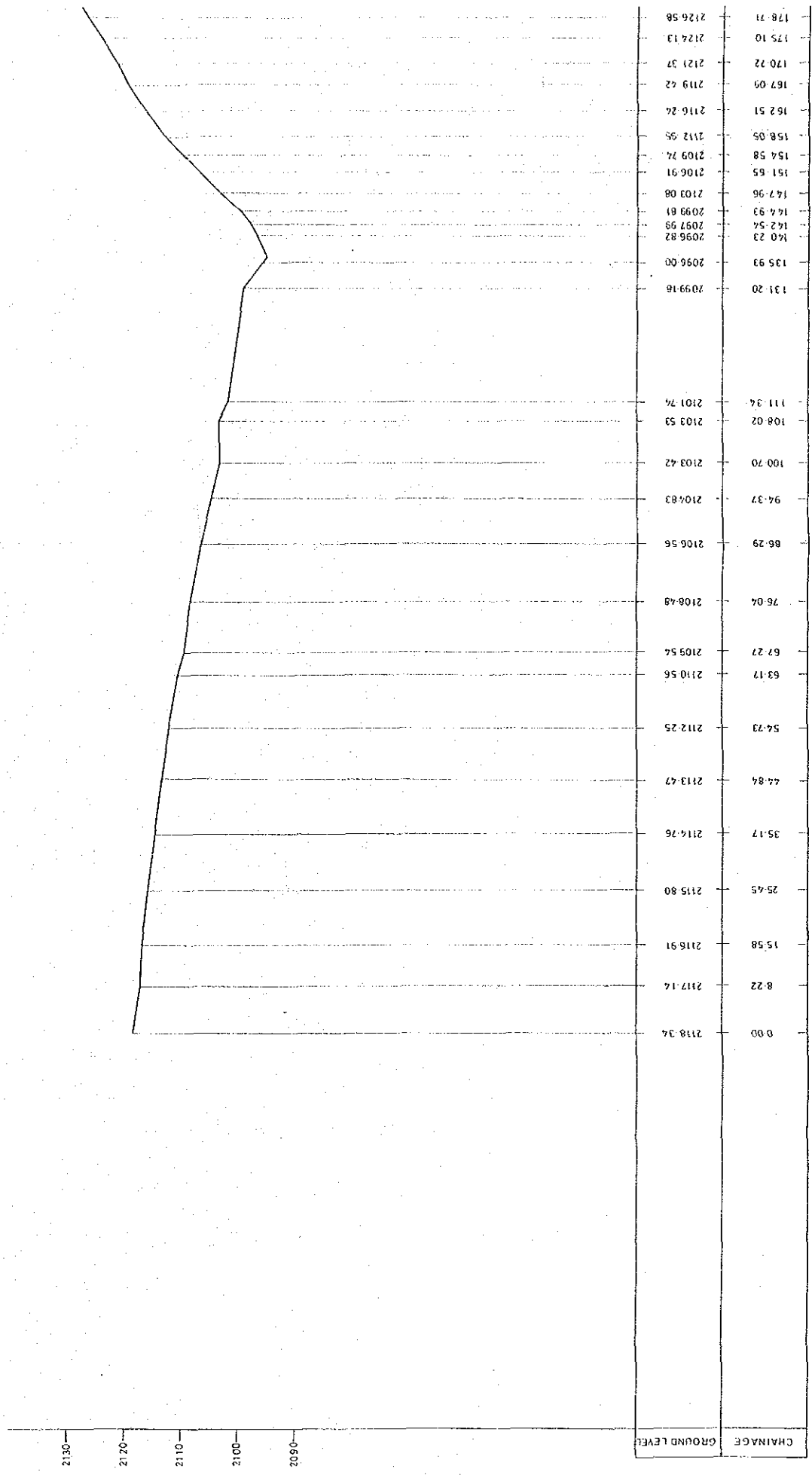
MAP HISTORY
RIVER CROSS SECTION SURVEY UNDERTAKEN BY
PHOTOMAP (KI.) LTD. FOR JAPAN INTERNATIONAL
COOPERATION AGENCY.

JAPAN INTERNATIONAL COOPERATION AGENCY

MA RIVER
DN No. 2



MALEWA RIVER
SECTION No. 2



Scale 1:500
metres 0 10 20 30 40 50 60 70 metres

WA RIVER
ION No. 2

THE STUDY ON CONSTRUCTION OF DAM
IN MALEWA RIVER SYSTEM
FOR
GREATER NAKURU WATER SUPPLY PROJECT

RIVER CROSS SECTION SURVEY

Scale H = 1 : 500
V = 1 : 500

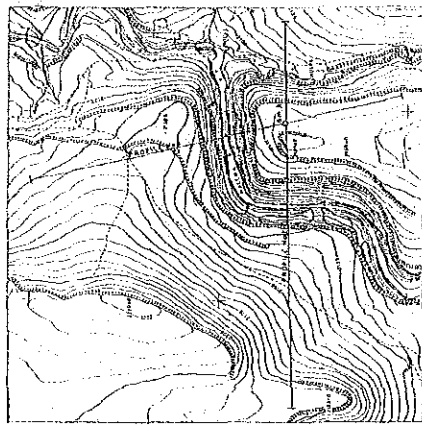
MALEWA RIVER

SHEET INDEX



INDEX MAP

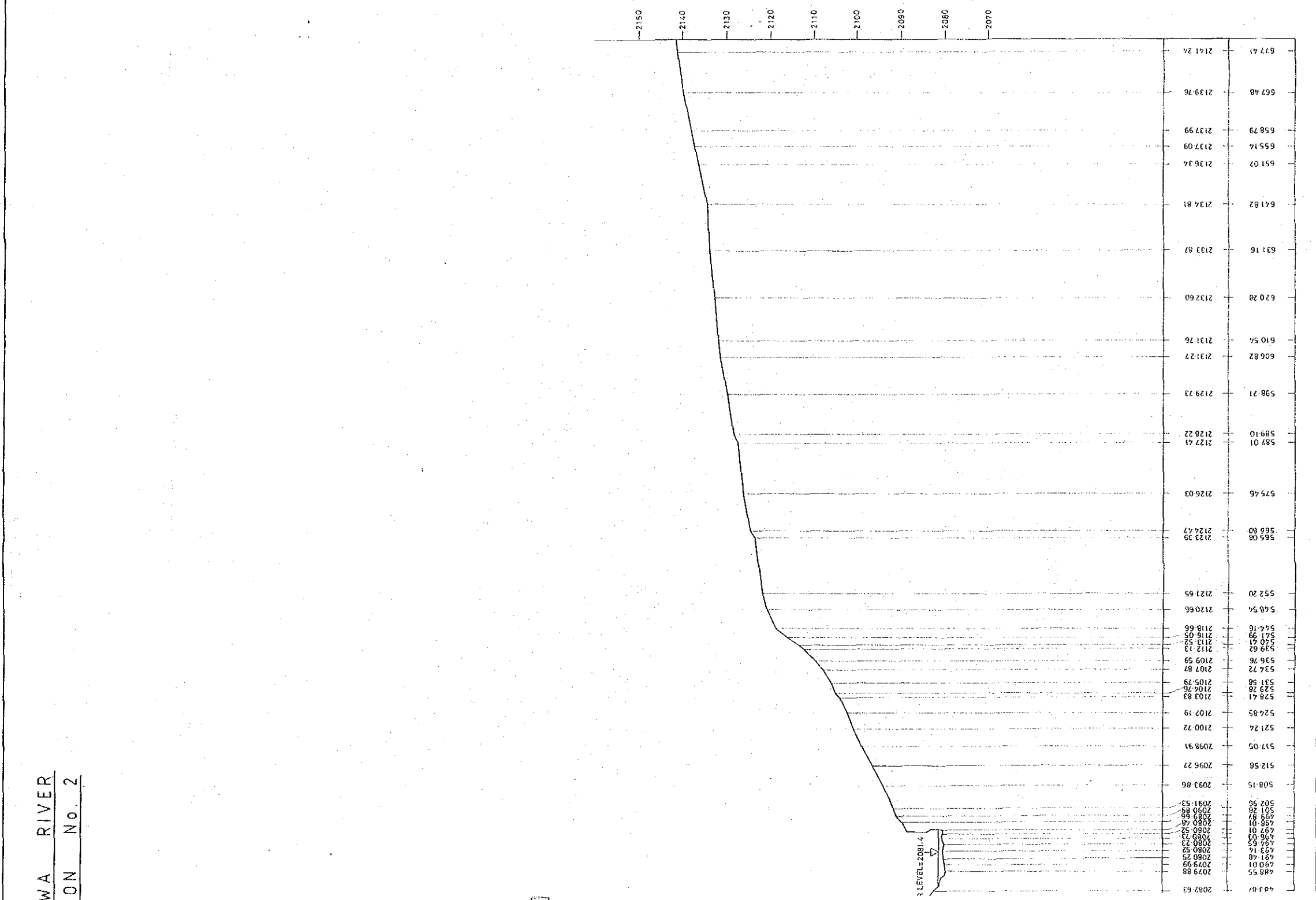
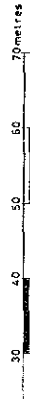
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MAP HISTORY

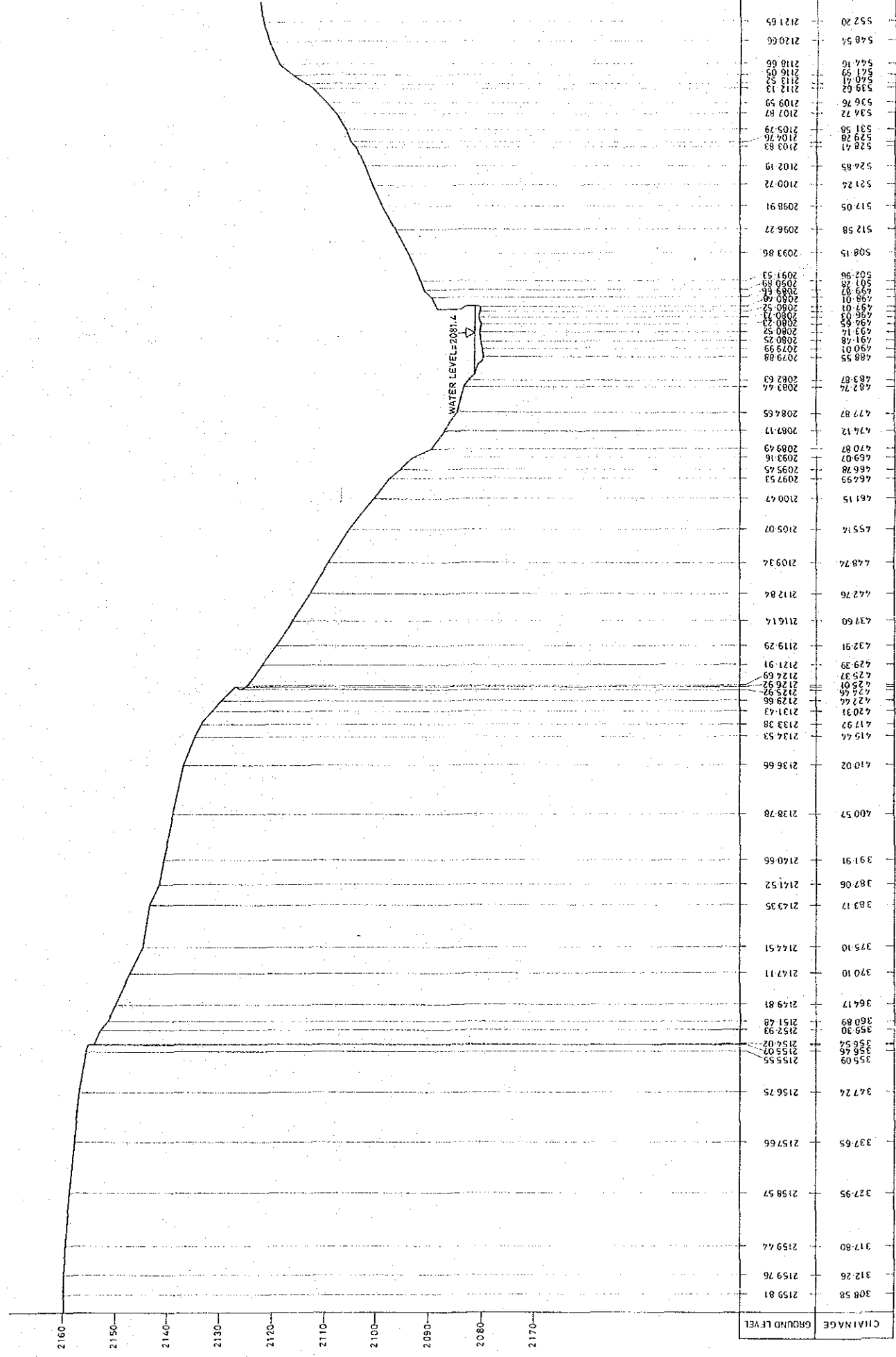
RIVER CROSS SECTION SURVEY UNDERTAKEN BY
PHOTOMAP (K). LTD. FOR JAPAN INTERNATIONAL
COOPERATION AGENCY.

Scale 1 : 500



JAPAN INTERNATIONAL COOPERATION AGENCY

MALEWA RIVER
SECTION No. 2



Scale 1:500
metres 0 10 20 30 40 50 60 70

THE STUDY ON CONSTRUCTION OF DAM
IN MALEWA RIVER SYSTEM
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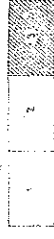
MA RIVER
ON No. 2

RIVER CROSS SECTION SURVEY

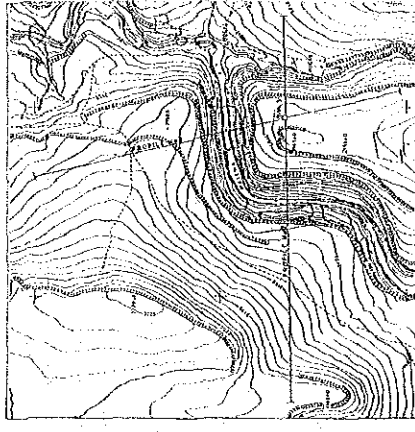
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MALEWA RIVER

SHEET INDEX



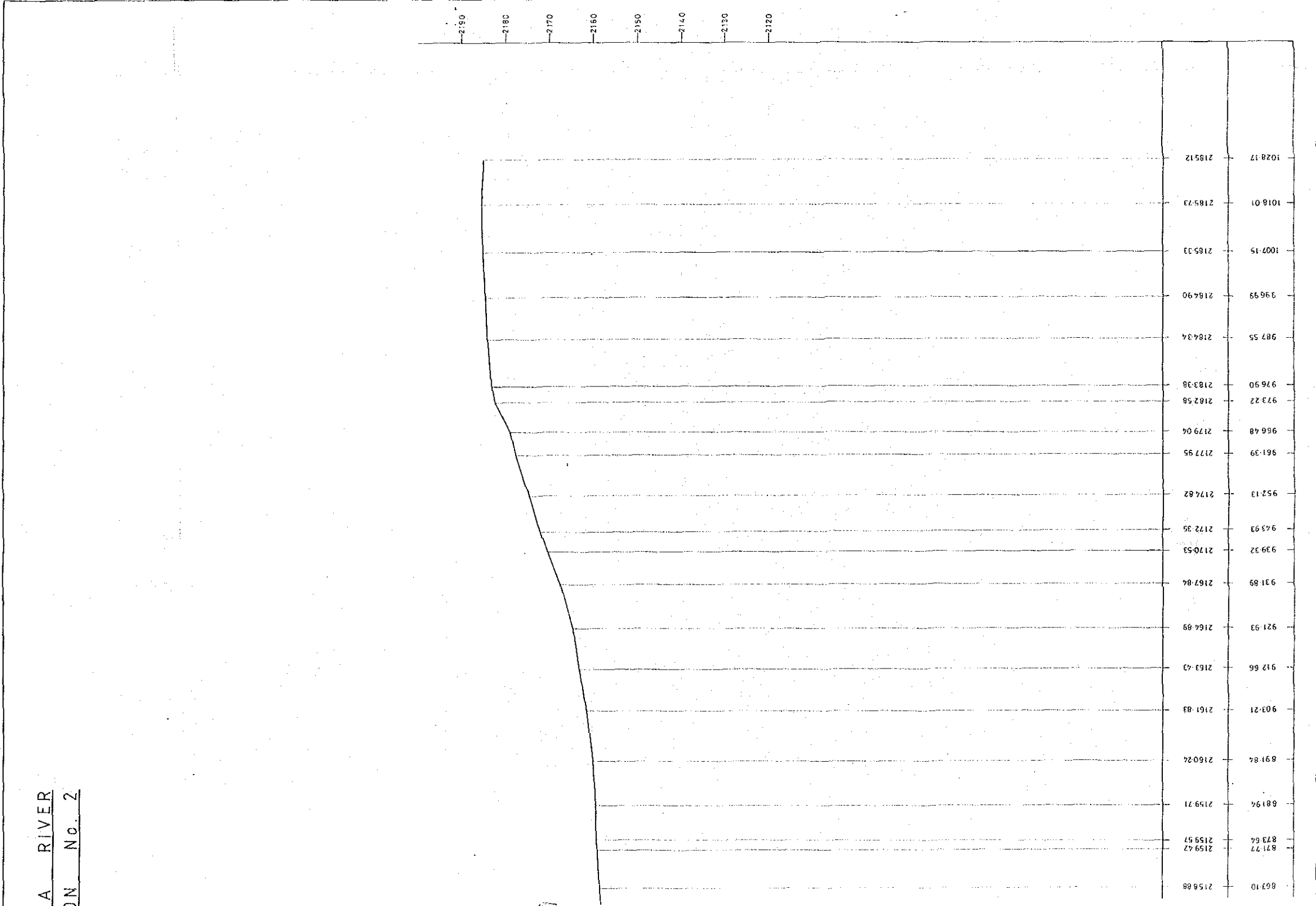
INDEX MAP
Scale 1 : 10,000



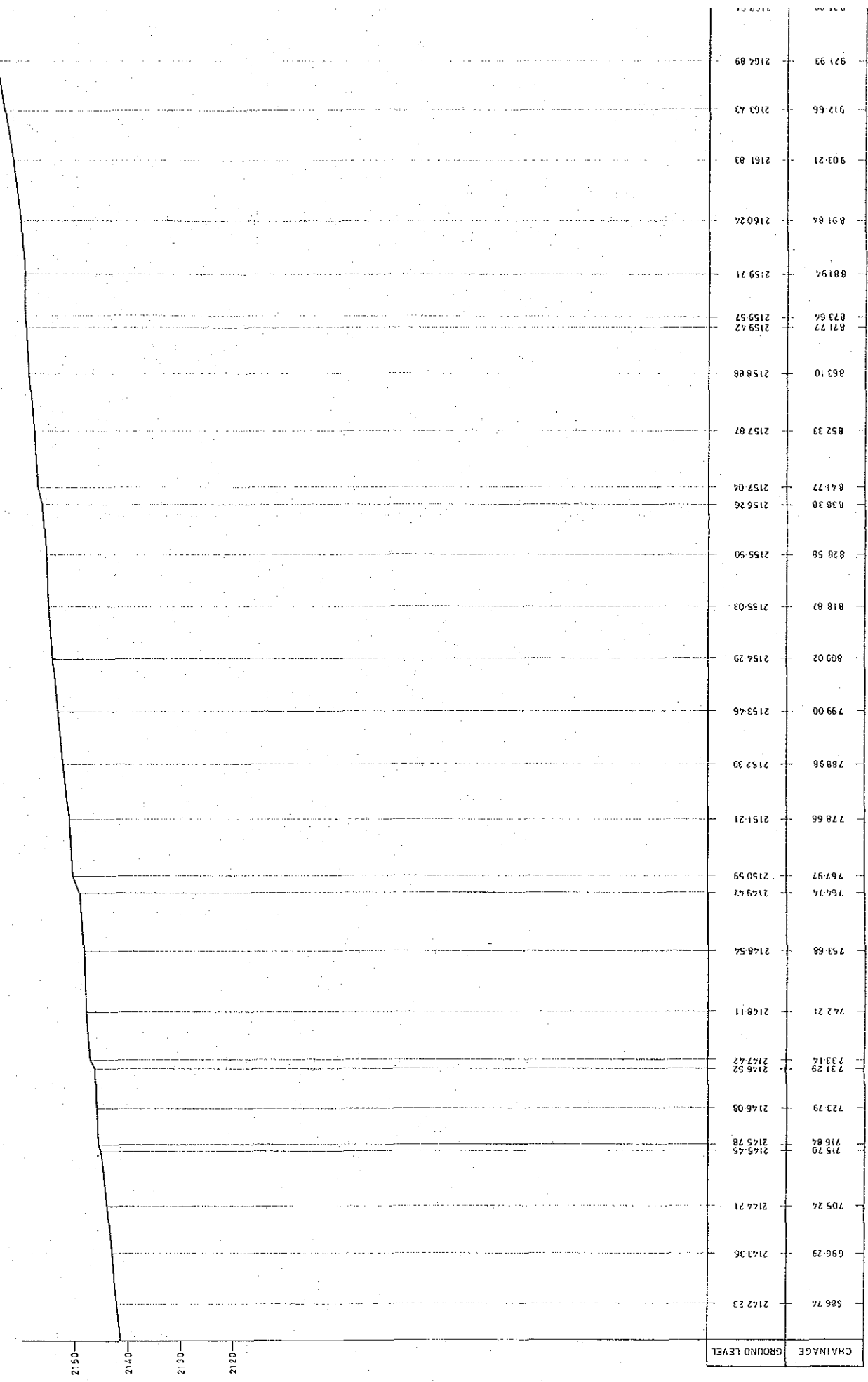
MAP HISTORY

RIVER CROSS SECTION SURVEY UNDERTAKEN BY
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JAPAN INTERNATIONAL COOPERATION AGENCY



MALEWA RIVER
SECTION No. 2



Scale 1:500
metres

THE STUDY ON CONSTRUCTION OF DAM
IN MALEWA RIVER SYSTEM
FOR
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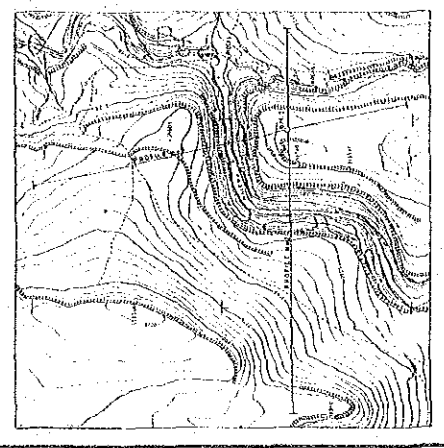
RIVER CROSS SECTION SURVEY

Scale H = 1 : 500
V = 1 : 500

MALEWA RIVER



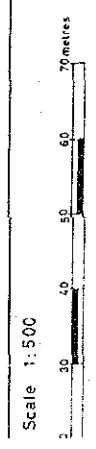
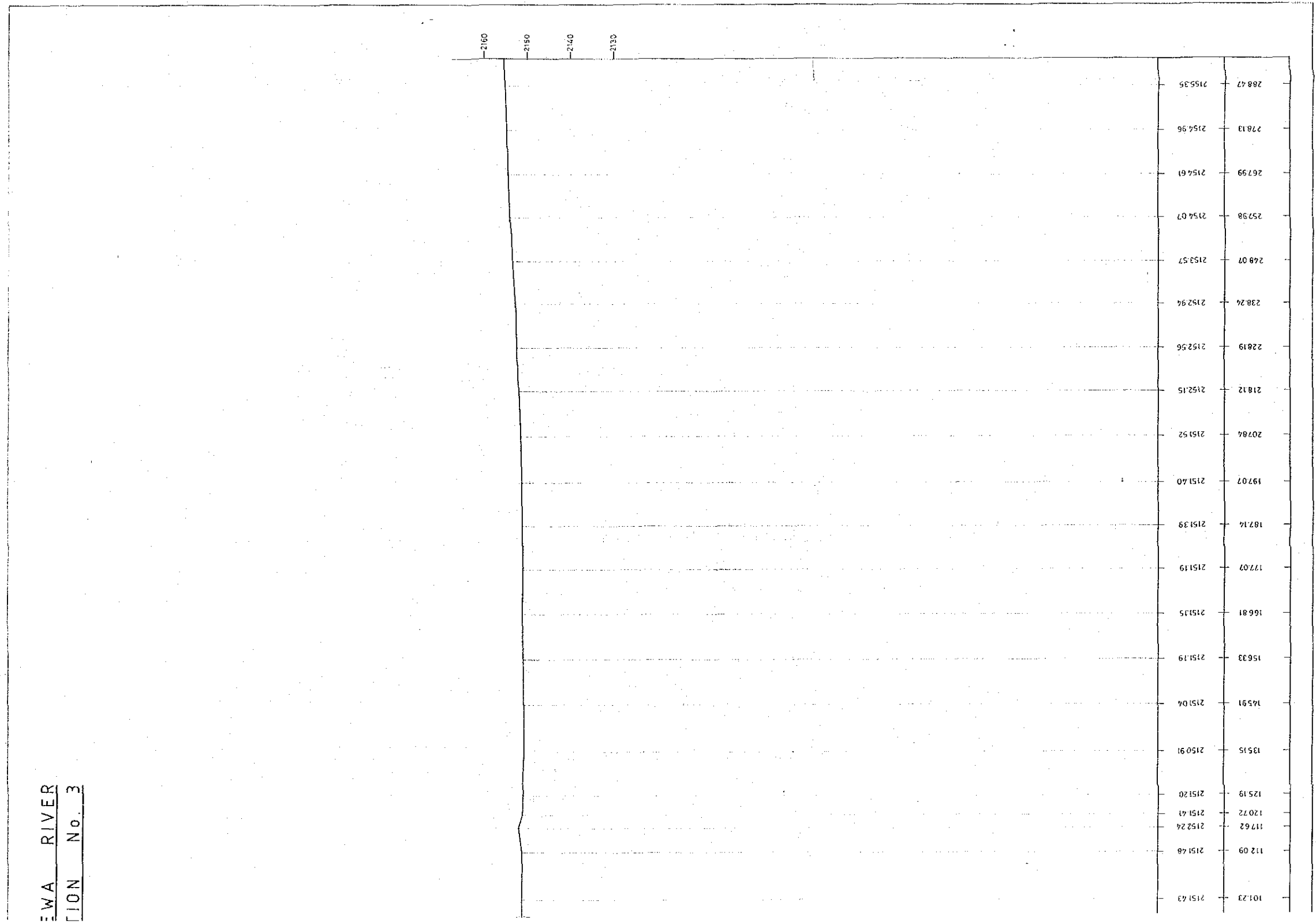
INDEX MAP
Scale 1 : 10,000



MAP HISTORY
RIVER CROSS SECTION SURVEY UNDERTAKEN BY
PHOTOMAP (K) LTD. FOR JAPAN INTERNATIONAL
COOPERATION AGENCY

JAPAN INTERNATIONAL COOPERATION AGENCY

MALEWA RIVER
SECTION No. 3

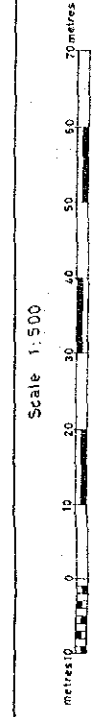


MALEWA RIVER
SECTION No. 3

2160
2150
2140
2130

CHAINAGE
GROUND LEVEL

2151.15	0.00
2151.22	9.36
2151.01	18.87
2151.71	23.00
2150.42	31.38
2150.26	42.16
2150.27	53.06
2150.43	63.52
2151.15	65.53
2150.82	70.07
2151.06	80.05
2151.18	90.13
2151.43	101.23
2151.48	117.09
2152.24	117.62
2151.41	120.72
2151.20	125.19
2150.91	135.15
2151.04	145.91
2151.19	156.33
2151.15	166.81



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RIVER CROSS SECTION SURVEY

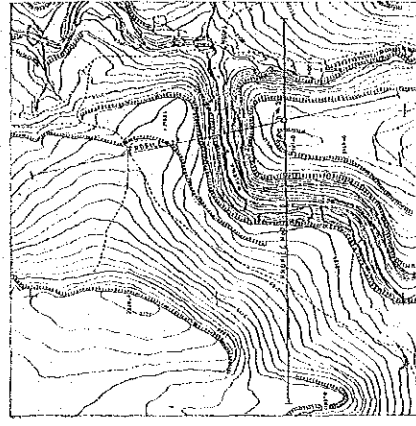
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V = 1 : 500

MALEWA RIVER

SHEET INDEX



INDEX MAP
Scale 1 : 10,000

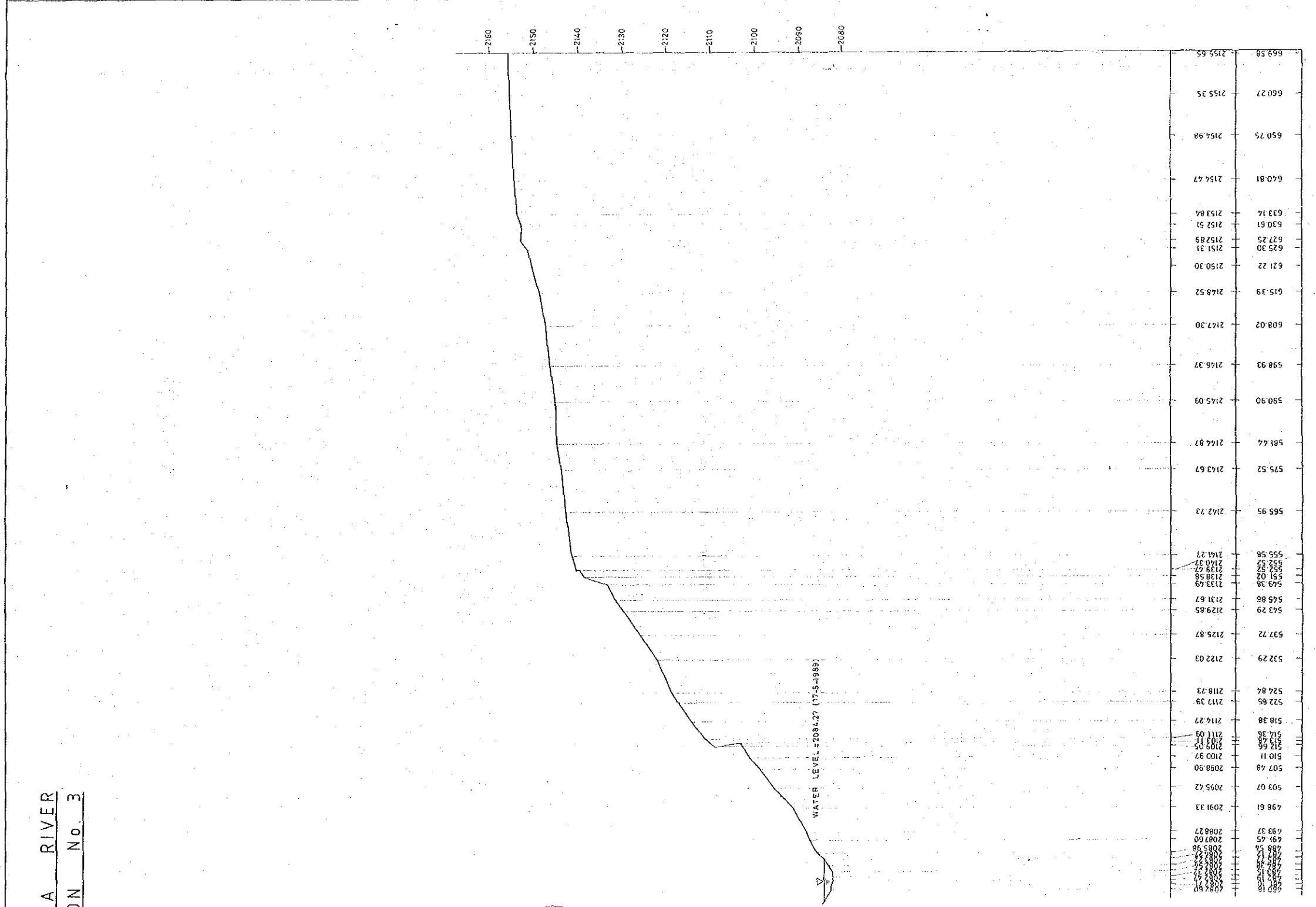


MAP HISTORY

RIVER CROSS SECTION SURVEY UNDERTAKEN BY
PHOTOMAP (K). LTD. FOR JAPAN INTERNATIONAL
COOPERATION AGENCY.

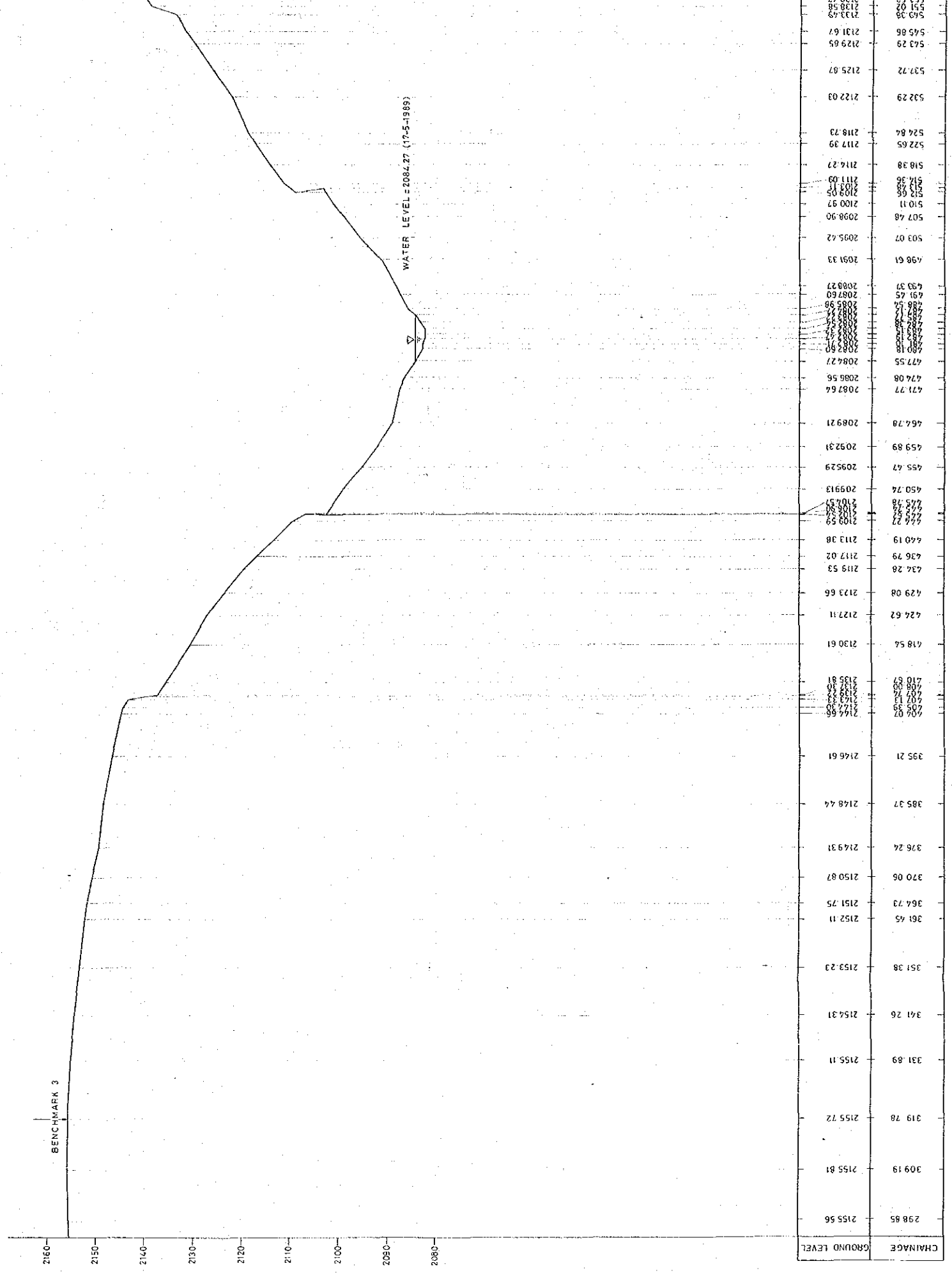
JAPAN INTERNATIONAL COOPERATION AGENCY

WA RIVER
SECTION No. 3



Scale 1 : 500

MALEWA RIVER
SECTION No. 3



THE STUDY ON CONSTRUCTION OF DAM
IN MALEWA RIVER SYSTEM
FOR
GREATER NAKURU WATER SUPPLY PROJECT

RIVER CROSS SECTION SURVEY

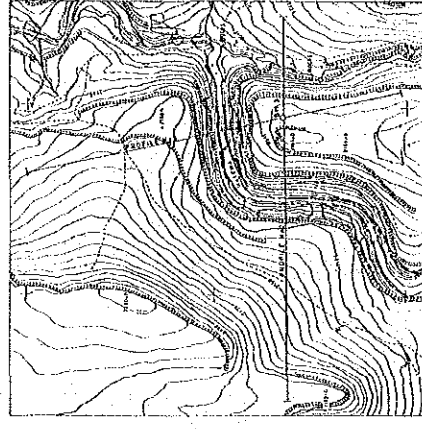
Scale H = 1 : 500
V = 1 : 500

MALEWA RIVER

SHEET INDEX

1	2	3
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INDEX MAP
Scale 1 : 10,000



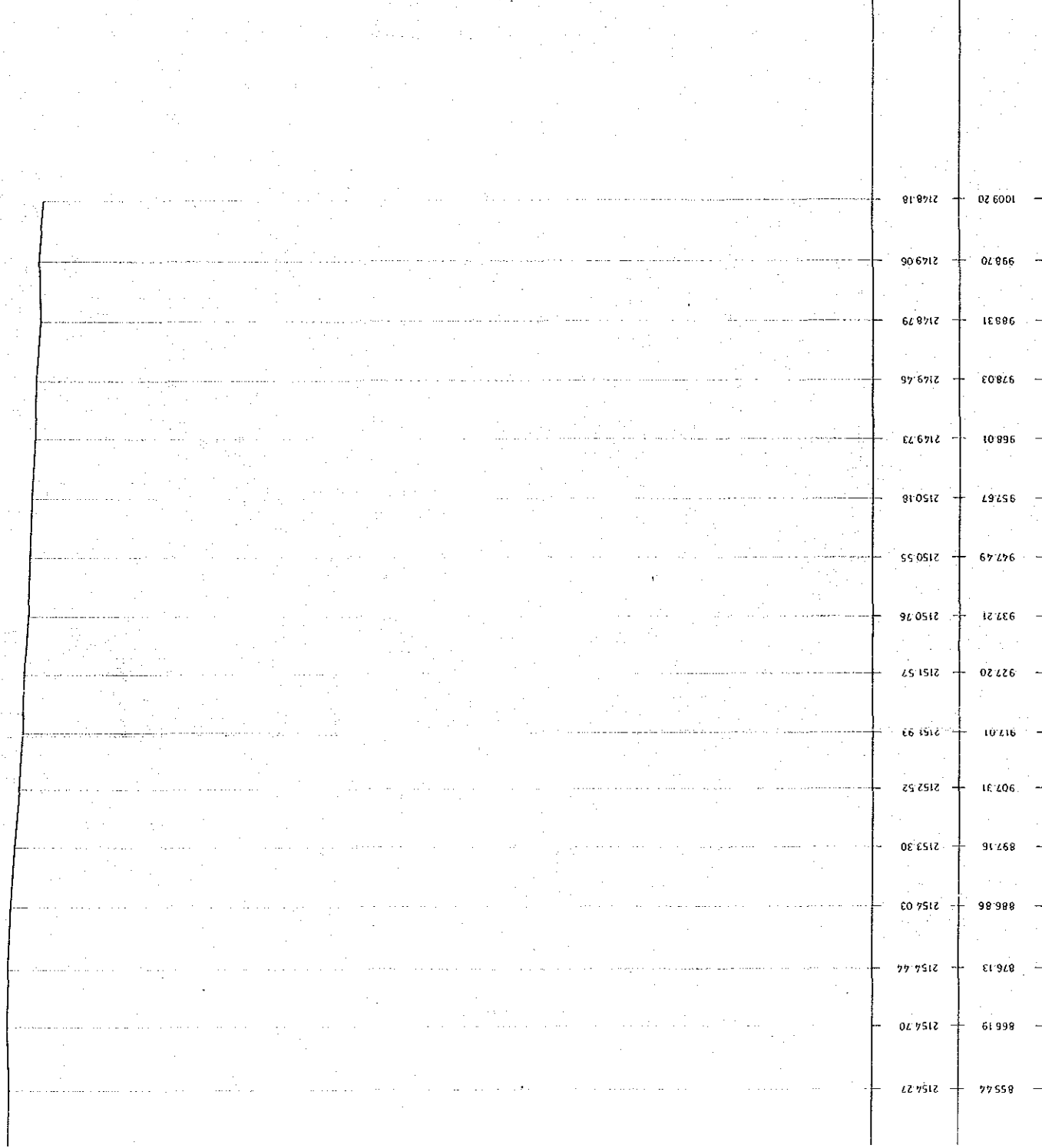
MAP HISTORY

RIVER CROSS SECTION SURVEY UNDERTAKEN BY
PHOTOMAP (K), LTD. FOR JAPAN INTERNATIONAL
COOPERATION AGENCY.

JAPAN INTERNATIONAL COOPERATION AGENCY

EWA RIVER
SECTION No. 3

2150
2130
2140
2130

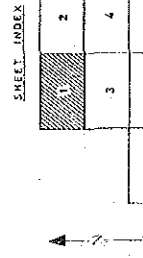


Scale 1:500
20 30 40 50 60 70 metres

THE STUDY ON CONSTRUCTION OF DAM
IN MALEWA RIVER SYSTEM
FOR
GREATER NAKURU WATER SUPPLY PROJECT

Scale 1:500

TURASHA DAM SITE



SHEET INDEX

1	2		
3	4	5	
6	7	8	9
10	11	12	
13	14	15	
		16	

LEGEND

- Termac Road
- Murum Road
- Railway Line
- Motorable Track
- Footpath
- Houses, Huts
- Fence, Hedge
- Cultivation
- Quarry
- Cutting, Embankment
- Bridge
- Box culvert, Pipe culvert
- Revetment
- Sluice
- Watergate (Flood gate)
- Rocks
- Precipice land slide
- Cliffs
- Pond
- Rivers and streams
- Intermittent streams
- Forest, Trees
- Traverse Point, Principal Point
- Spot height
- Contours V.I.M., Index 10m
- Flow Lines

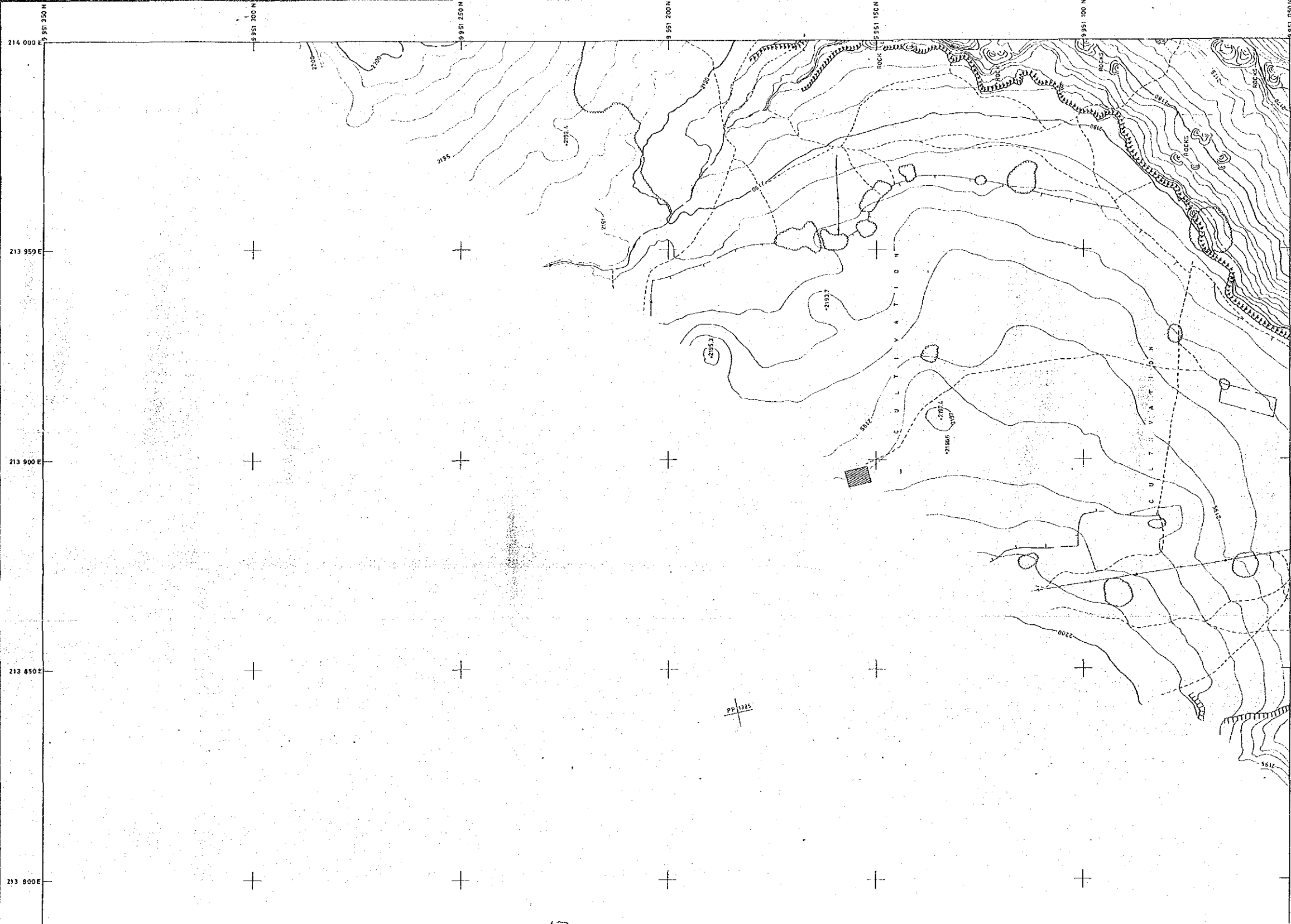
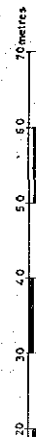
GRID INFORMATION

UTM ZONE 37

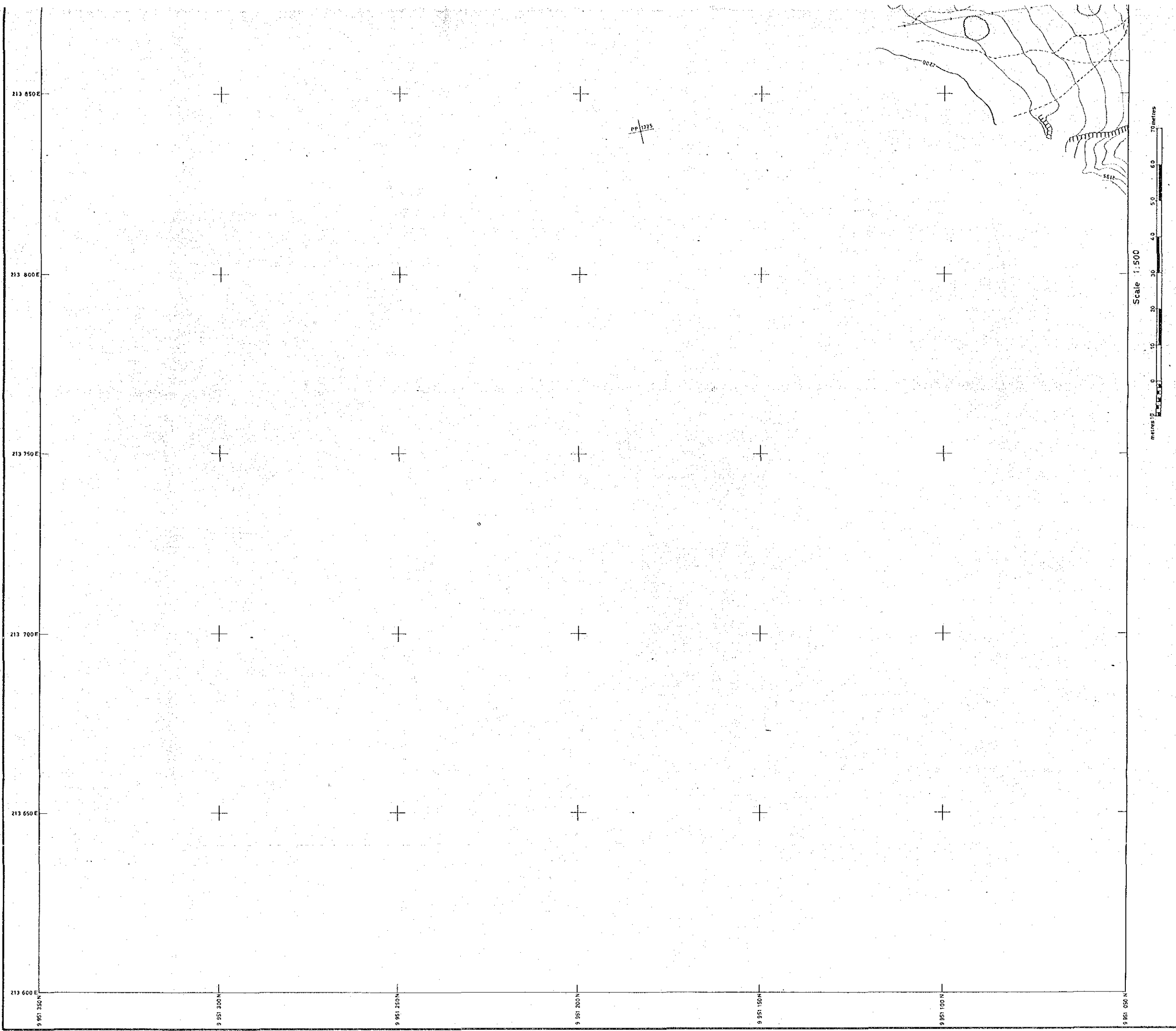
MAP HISTORY

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Scale 1:500



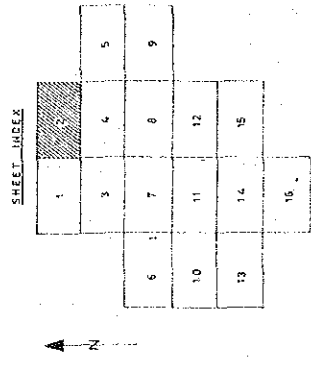
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THE STUDY ON CONSTRUCTION OF DAM
IN MALEWA RIVER SYSTEM
FOR
GREATER NAKURU WATER SUPPLY PROJECT

Scale 1:500

TURASHA DAM SITE



LEGEND

- Tarmac Road
- Murum Road
- Railway Line
- Motorable Track
- Footpath
- Houses, Huts
- Fence, Hedge
- Cultivation
- Quarry
- Cutting, Embankment
- Bridge
- Box culvert, Pipe culvert
- Revetment
- Sluice
- Watergate (flood gate)
- Recks
- Precipice (and slide)
- Cliffs
- Pond
- Rivers and streams
- Intermittent streams
- Forest, Trees
- Traverse Point, Principal Point
- Spot height
- Contours V.I. Im. Index 10m.
- Form Lines

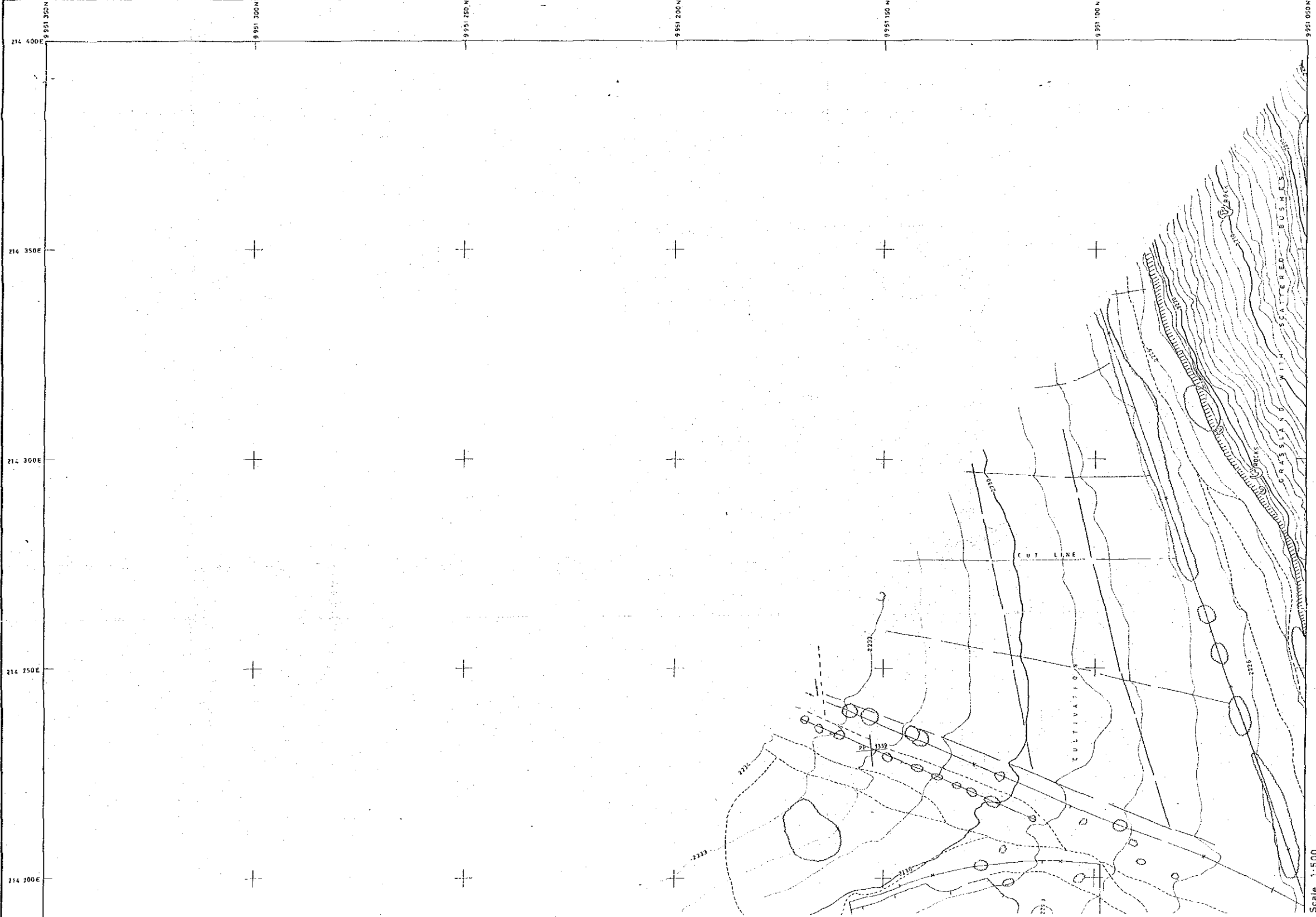
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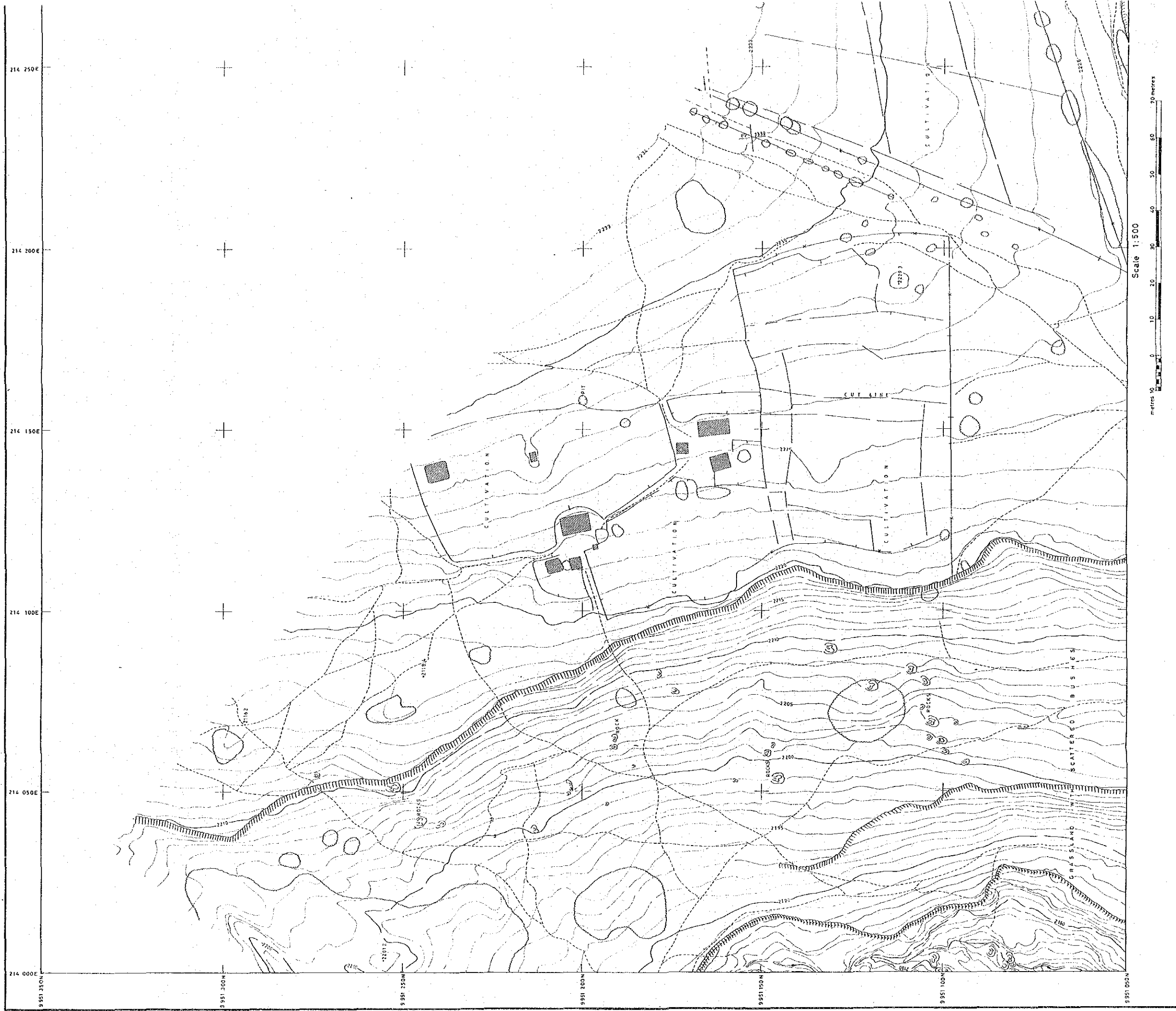
MAP HISTORY

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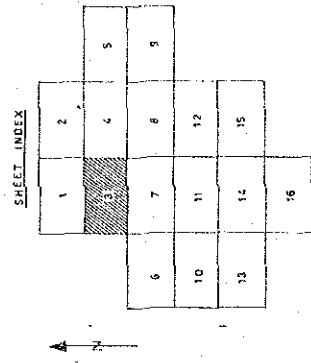
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THE STUDY ON CONSTRUCTION OF DAM
IN MALEWA RIVER SYSTEM
FOR
GREATER NAKURU WATER SUPPLY PROJECT

Scale 1:500

TURASKA DAM SITE



LEGEND

- Tarmac Road
- Murum Road
- Railway Line
- Motorable Track
- Footpath
- Houses, Huts
- Fence, Hedge
- Cultivation
- Quarry
- Cuttop, Embankment
- Bridge
- Box culvert, Pipe culvert
- Revetment
- Sluice
- Watergate (flood gate)
- Rocks
- Practicable land slide
- Cliffs
- Pond
- Rivers and streams
- Indefinite streams
- Forest, Trees
- Traverse Point, Principal Point
- Spot height
- Contours V.L.M. index 1cm
- Form Lines

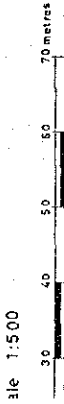
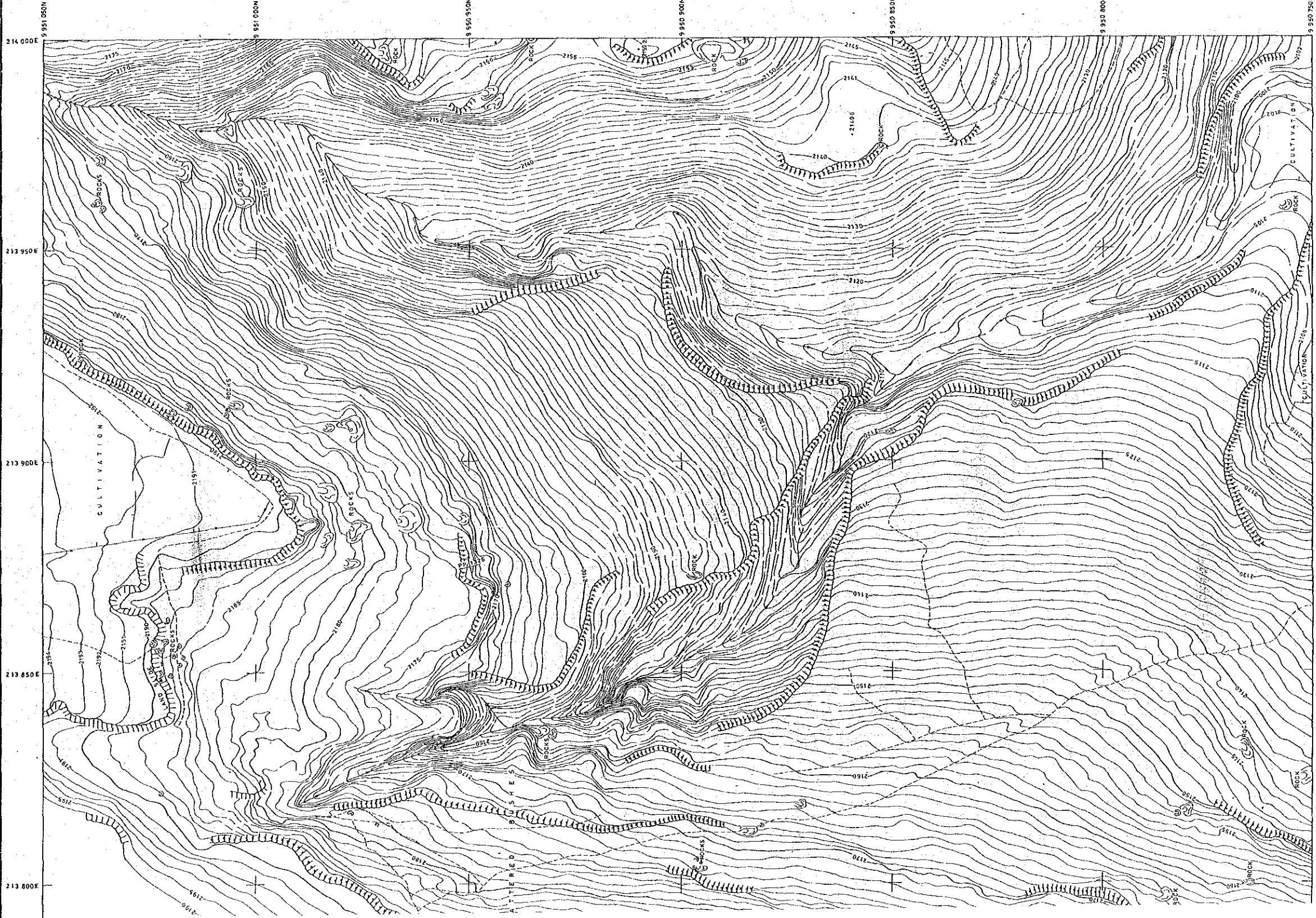
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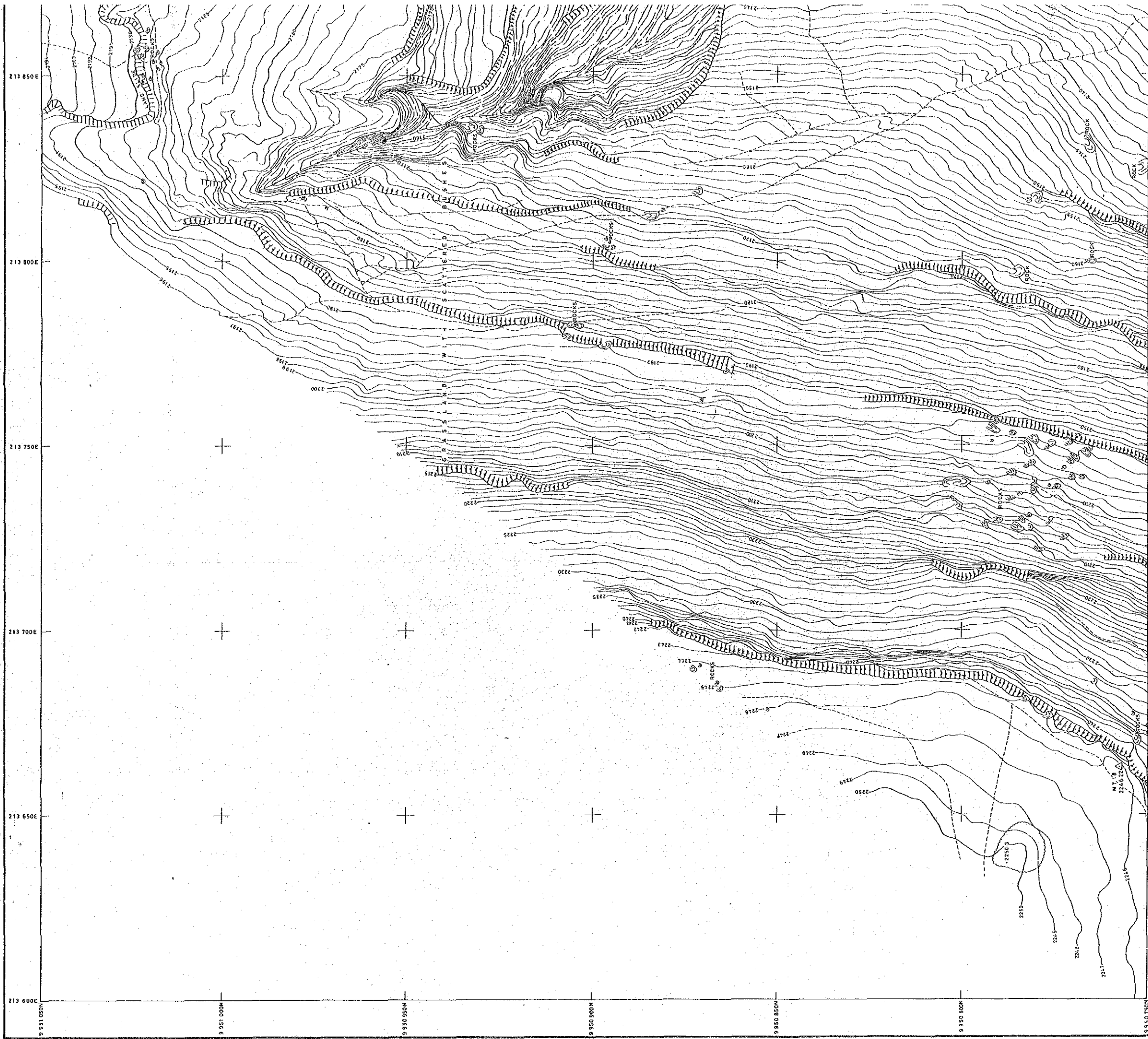
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MAP HISTORY

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CONTROL AND PHOTOGRAMMETRIC COMPILATION
UNDERTAKEN BY PHOTOAP (K) LTD. FOR
JAPAN INTERNATIONAL COOPERATION AGENCY.

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Scale 1:500



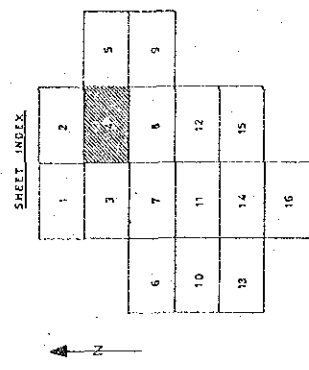
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213 800E
213 750E
213 700E
213 650E
213 600E

9 951 050N
9 950 750N
9 950 500N
9 950 250N
9 950 000N
9 949 750N
9 949 500N

THE STUDY ON CONSTRUCTION OF DAM
IN MALEWA RIVER SYSTEM
FOR
GREATER NAKURU WATER SUPPLY PROJECT

Scale 1:500

TURASHA DAM SITE



LEGEND

- Tarmac Road
- Murum Road
- Railway Line
- Motorable Track
- Footpath
- House, Hut
- Fence, Hedge
- CULTIVATION
- Quarry
- Cutting, Embankment
- Bridge
- Box culvert, Pipe culvert
- Revetment
- Sluice
- Watergate (flood gate)
- Rocks
- Prachice land slide
- Cliffs
- Pond
- Rivers and streams
- Intermittent streams
- Forest, Trees
- Traverse Point, Principal Point
- Spot height
- Contours V.I. 1m, Index 10m
- Form Lines

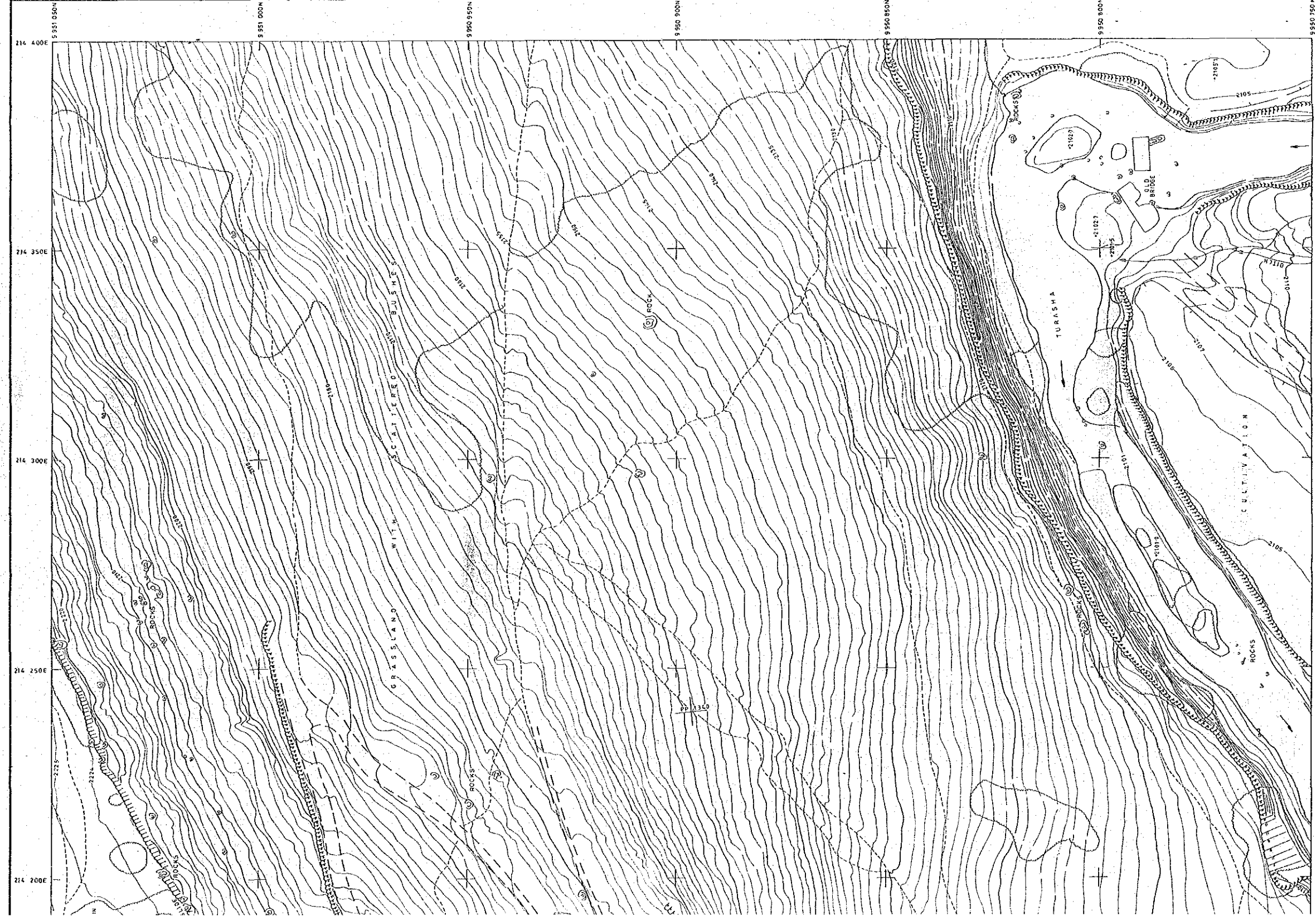
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UTM ZONE 37

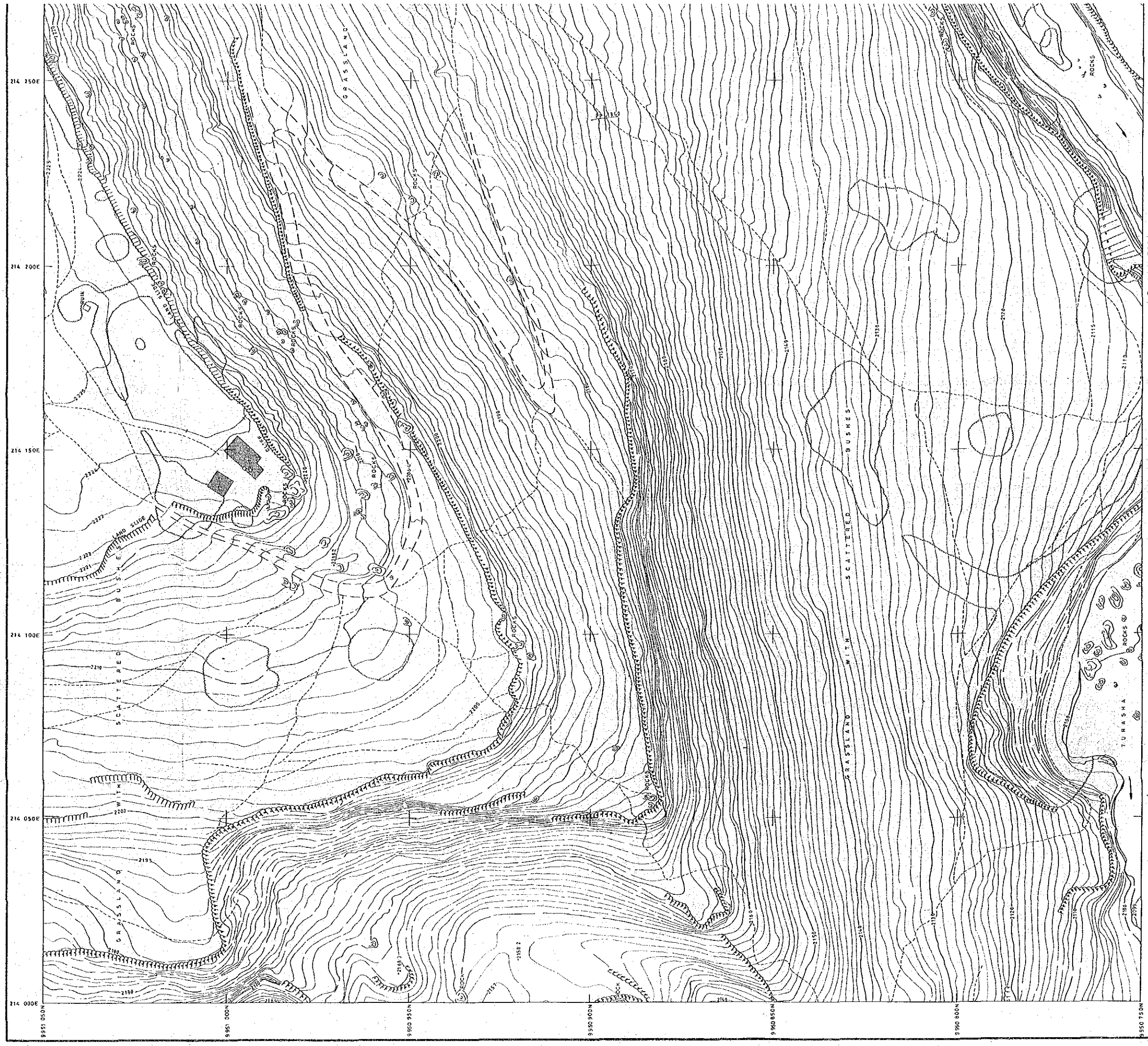
MAP HISTORY

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JAPAN INTERNATIONAL COOPERATION AGENCY



Scale 1:500
0 10 20 30 40 50 60 70 metres

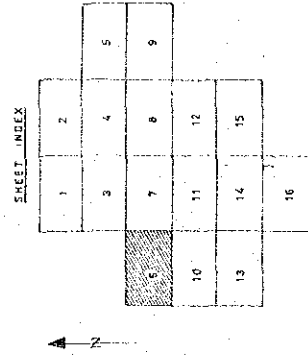


Scale 1:500
metres 0 10 20 30 40 50 60 70

THE STUDY ON CONSTRUCTION OF DAM
IN MALEWA RIVER SYSTEM
FOR
GREATER NAKURU WATER SUPPLY PROJECT

Scale 1 : 500

TURASHA DAM SITE



LEGEND.

- Tarmac Road
- Murrum Road
- Railway Line
- Motorable Track
- Footpath
- Houses, Huts
- Fence, Hedge
- Cultivation
- Quarry
- Cutting, Embankment
- Bridge
- Box culvert, Pipe culvert
- Revetment
- Sluice
- Watergate, Flood gate
- Rocks
- Precipice and slide
- Cliffs
- Pond
- Rivers and streams
- Indefinite streams
- Forest, Trees
- Traverse Point, Principal Point
- Spot height
- Contours v.l. Im. Index 10m.
- Form Lines

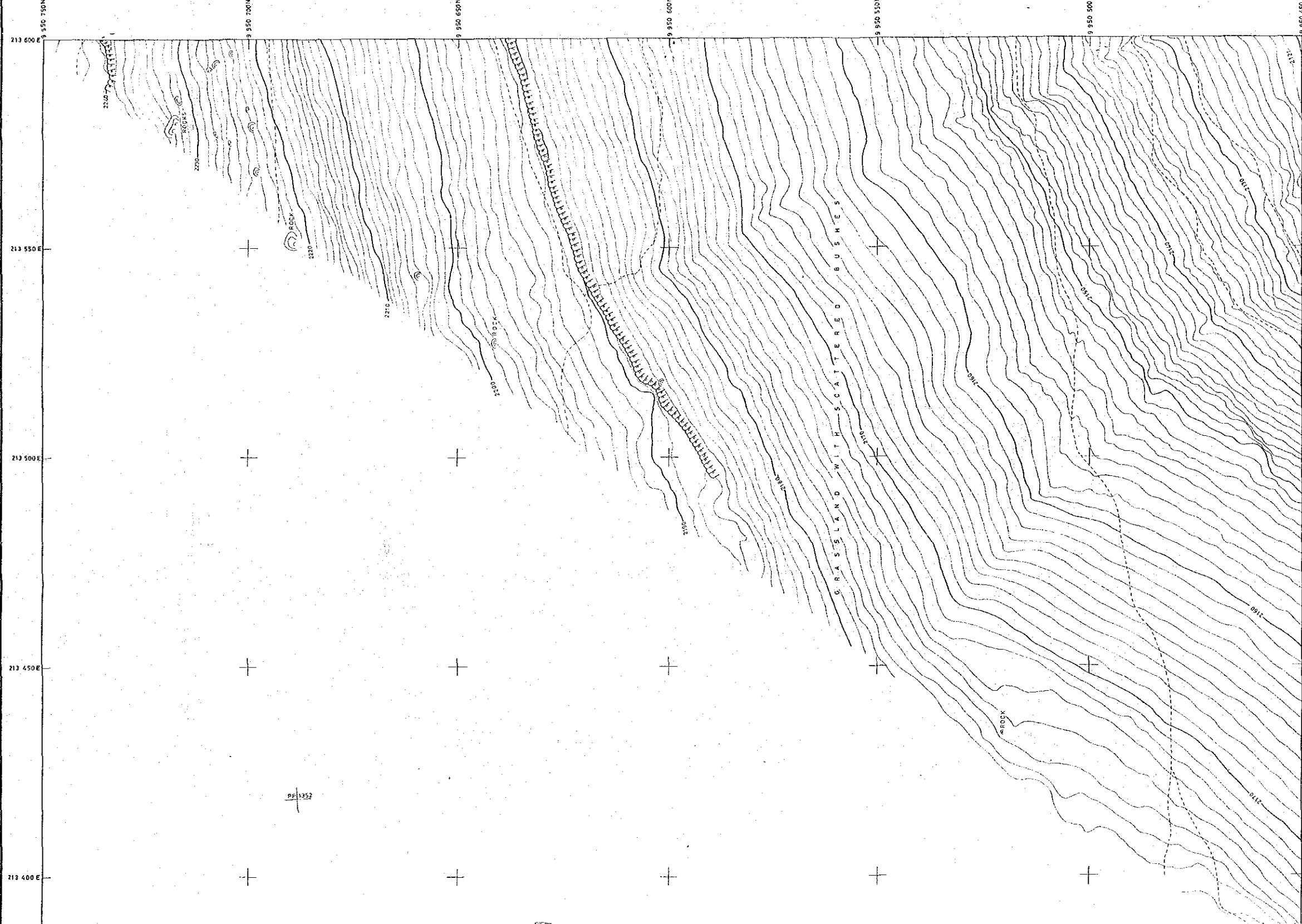
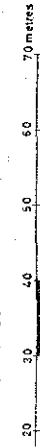
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UTM ZONE 37

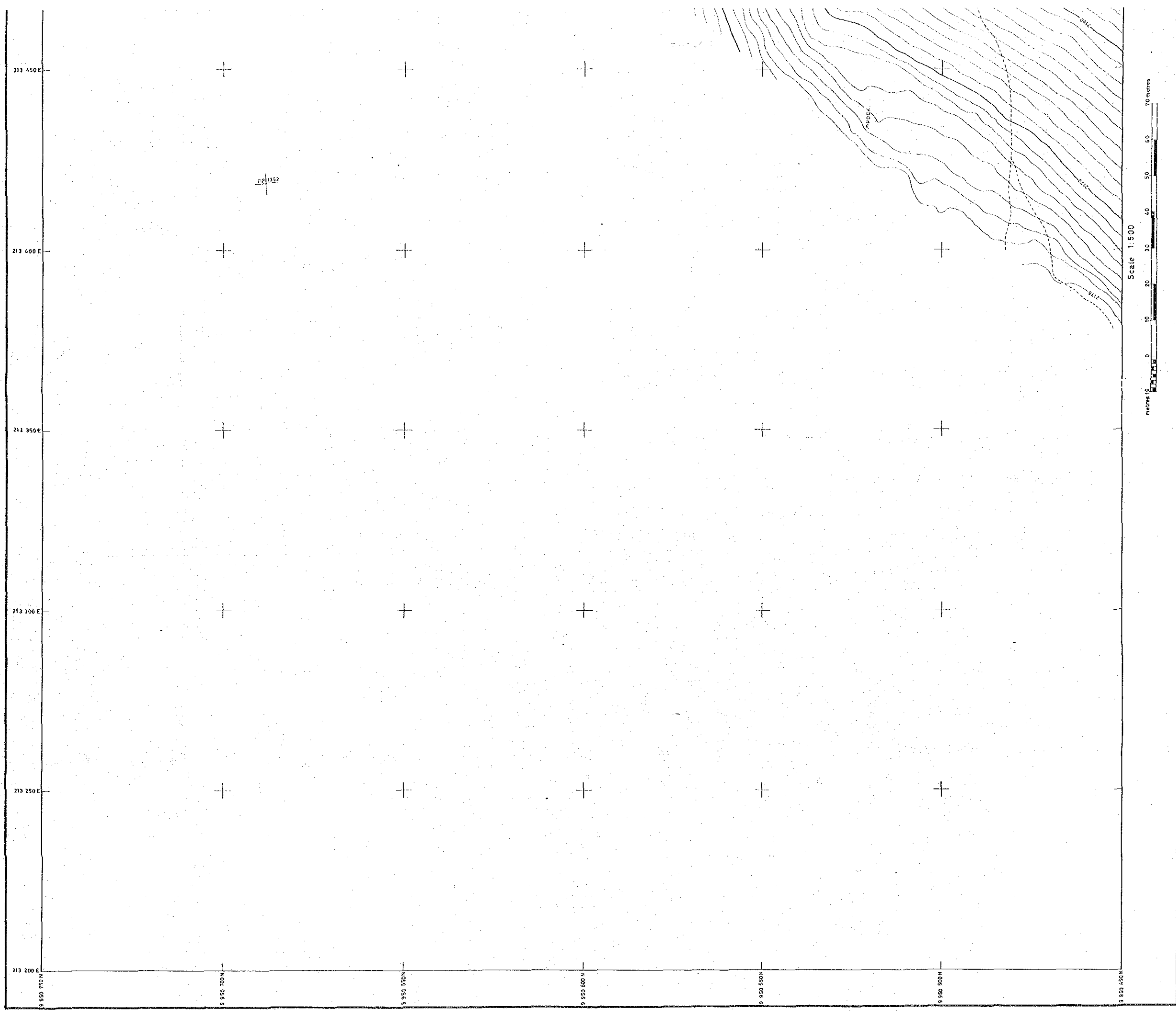
MAP HISTORY

AERIAL PHOTOGRAPHY (JANUARY 1989), GROUND CONTROL AND PHOTOGRAMMETRIC COMPILATION UNDERTAKEN BY PHOTOAP (G) LTD. FOR JAPAN INTERNATIONAL COOPERATION AGENCY.

Scale 1:500



JAPAN INTERNATIONAL COOPERATION AGENCY



THE STUDY ON CONSTRUCTION OF DAM
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Scale 1:500

TURASHA DAM SITE

SHEET INDEX

1	2
3	4
6	7
10	11
12	14
	15
	16

LEGEND

- Terrace Road
- Murrum Road
- Railway Line
- Motorable Track
- Footpath
- Houses, Huts
- Fence, Hedge
- Cultivation
- Quarry
- Cutting, Embankment
- Bridge
- Box Culvert, Pipe Culvert
- Revetment
- Sluice
- Watergate (flood gate)
- Rocks
- precipice land slide
- Cliffs
- Pond
- Rivers and streams
- Indefinite streams
- Forest, Trees
- Traverse Point, Principal Point
- Spot Height
- Contours V.I. Im. Index 10m.
- Farm Lines

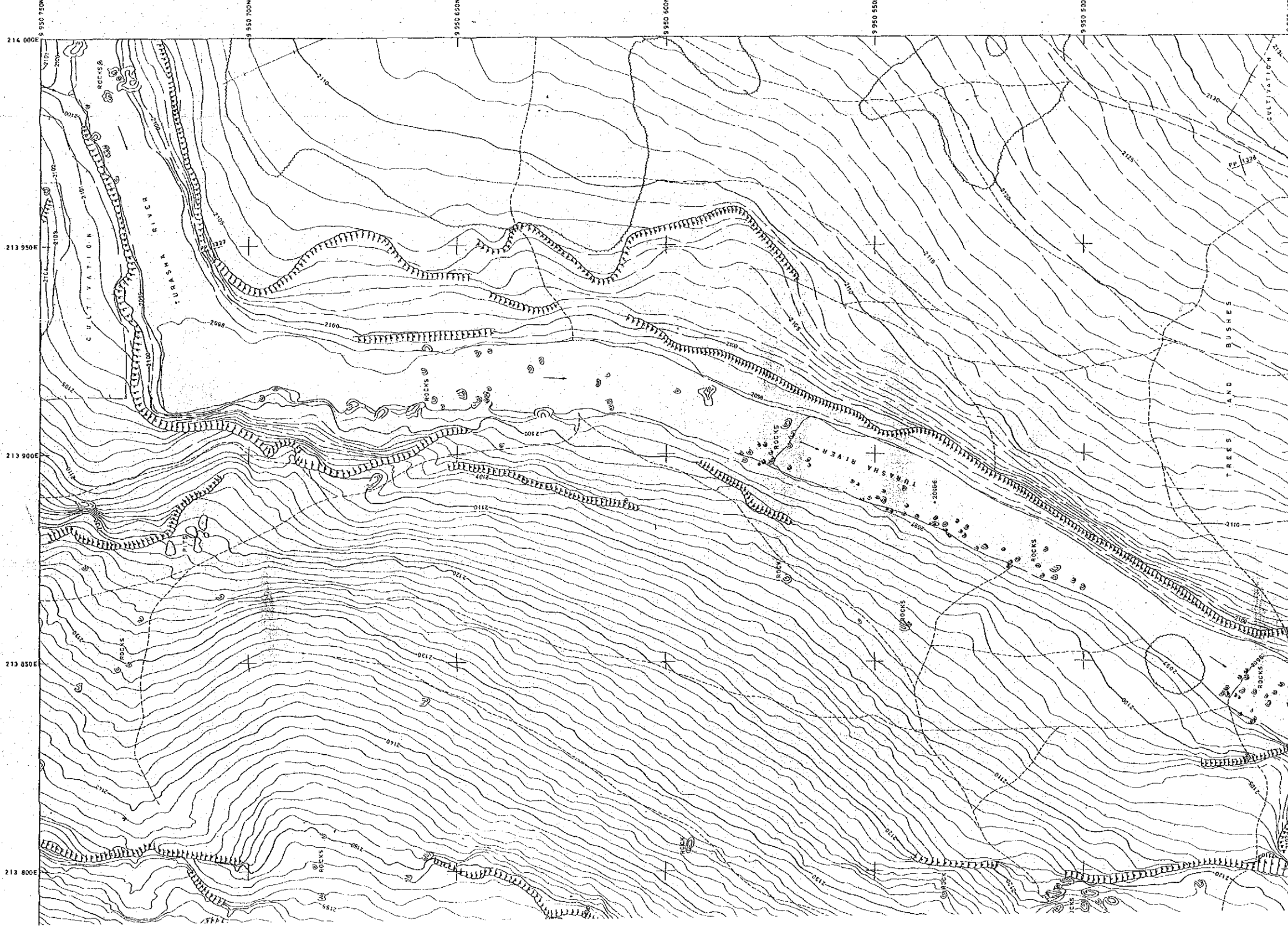
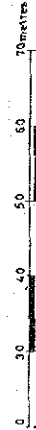
GRID INFORMATION

UTM ZONE 37

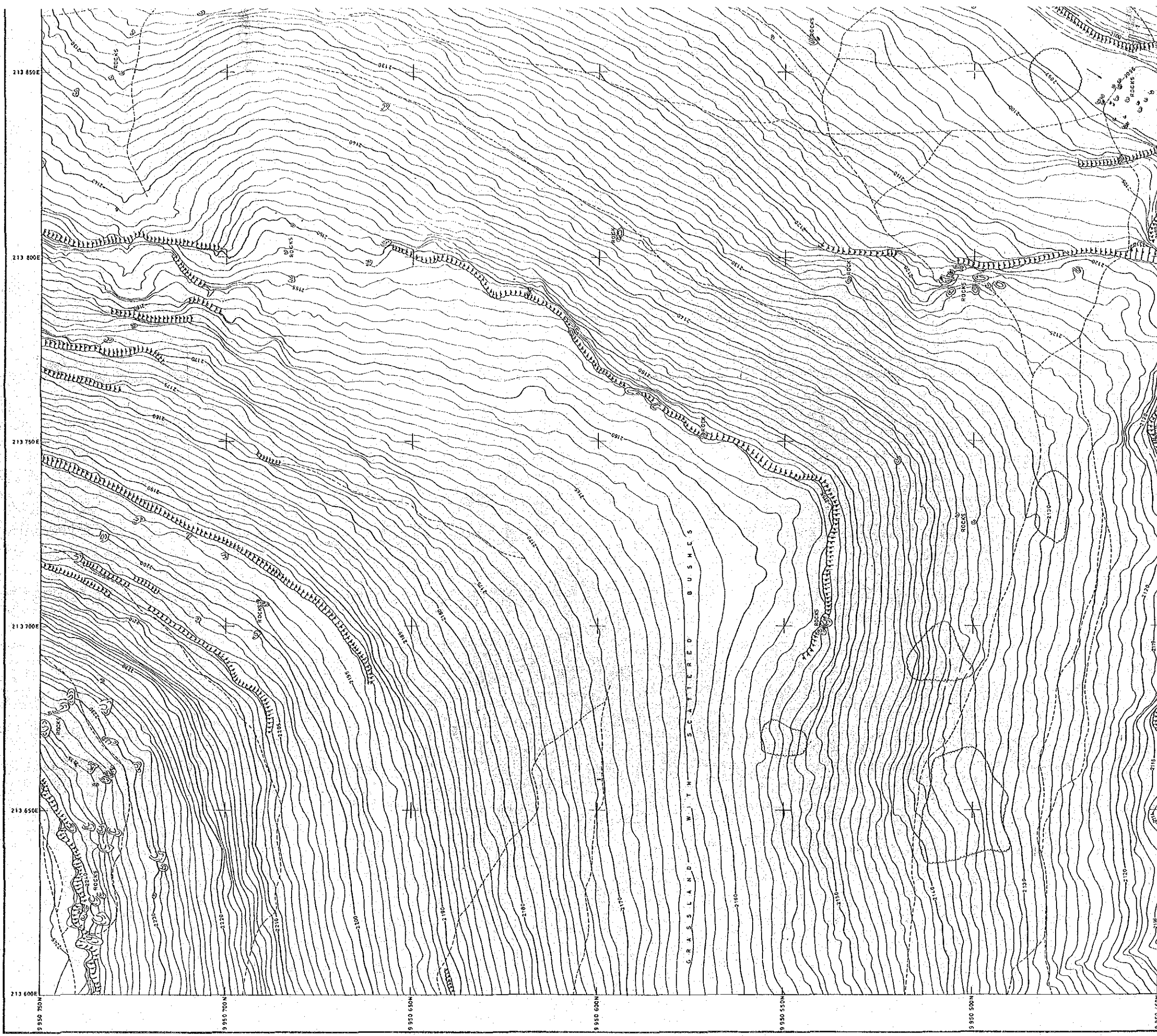
MAP HISTORY

AERIAL PHOTOGRAPHY (JANUARY 1989), GROUND CONTROL AND PHOTOGRAMMETRIC COMPILATION UNDERTAKEN BY PHOTOMAP (K) LTD. FOR JAPAN INTERNATIONAL COOPERATION AGENCY.

Scale 1:500



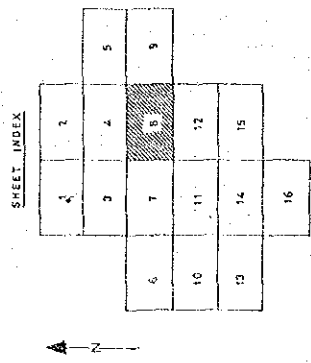
JAPAN INTERNATIONAL COOPERATION AGENCY



THE STUDY ON CONSTRUCTION OF DAM
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Scale 1:500

TURASHA DAM SITE



LEGEND

- Tarmac Road
- Murum Road
- Railway Line
- Motorable Track
- Footpath
- Houses, Hut
- Fence, Hedge
- Cultivation
- Quarry
- Cutting, Embankment
- Bridge
- Box culvert, Pipe culvert
- Revetment
- Sluice
- Watergate (flood gate)
- Rock
- Pre-dredged land slide
- Cliff
- Pond
- Rivers and streams
- Indefinite streams
- Forest, Trees
- Traverse Point, Principal Point
- Spot height
- Contours V.L.M. Index 10m
- Fern Lines

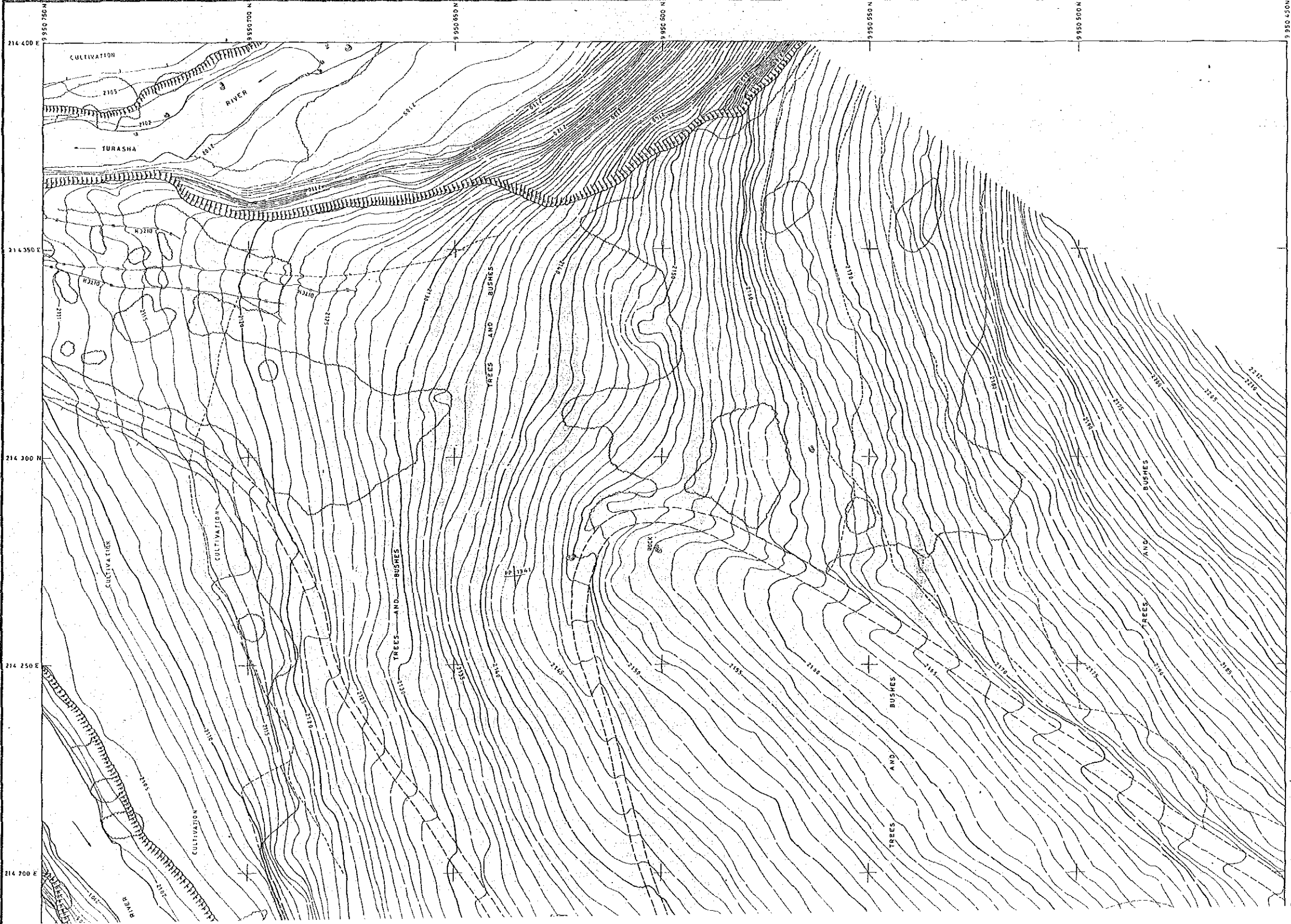
GRID INFORMATION

UTM ZONE 37

MAP HISTORY

AERIAL PHOTOGRAPHY (JANUARY 1989), GROUND
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UNDERTAKEN BY PHOTONAP (K) LTD. FOR
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Scale 1:500



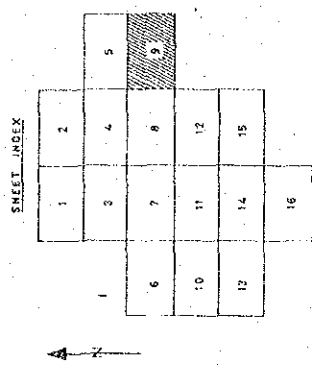
9950 4500 N

JAPAN INTERNATIONAL COOPERATION AGENCY

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GREATER NAKURU WATER SUPPLY PROJECT

Scale 1:500

TURASHA DAM SITE



LEGEND

- Tarmac Road
- Murum Road
- Railway Line
- Motorable Track
- Footpath
- Houses, Huts
- Fence, Hedge
- Cultivation
- Quarry
- Cutting, Embankment
- Bridge
- Box culvert, Pipe culvert
- Revetment
- Sluice
- Watergate (flood gate)
- Reefs
- Practice land slide
- Cliffs
- Pond
- Rivers and streams
- Indefinite streams
- Forest, Trees
- Traverse Point, Triodol Point
- Spot height
- Contours V.L.M. index 1cm
- Form Lines

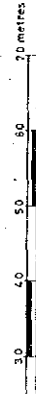
GRID INFORMATION

UTM ZONE 37

MAP HISTORY

AERIAL PHOTOGRAPHY (JANUARY 1959), GROUND
CONTROL AND PHOTOGRAMMETRIC COMPILATION
UNDERTAKEN BY PHOTOMAP INC. LTD. FOR
JAPAN INTERNATIONAL COOPERATION AGENCY.

Scale 1:500

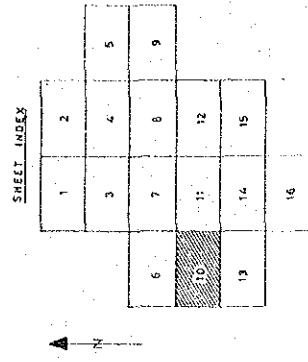


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THE STUDY ON CONSTRUCTION OF DAM
IN MALEWA RIVER SYSTEM
FOR
GREATER NAKURU WATER SUPPLY PROJECT

Scale 1:500

TURASHA DAM SITE



LEGEND

- Tarmac Road
- Murram Road
- Railway Line
- Motorable Track
- Footpath
- Houses, Huts
- Fence, Hedge
- Cultivation
- Quarry
- Cutting, Embankment
- Bridge
- Box culvert, Pipe culvert
- Retirement
- Sluice
- Watergate (Flood gate)
- Rocks
- Precipice land slide
- Cirra
- Pond
- Rivers and streams
- Indefinite streams
- Forest, Trees
- Traverse Point, Principal Point
- Spot height
- Contours V.L. Im. Index 10m.
- Fern Lines

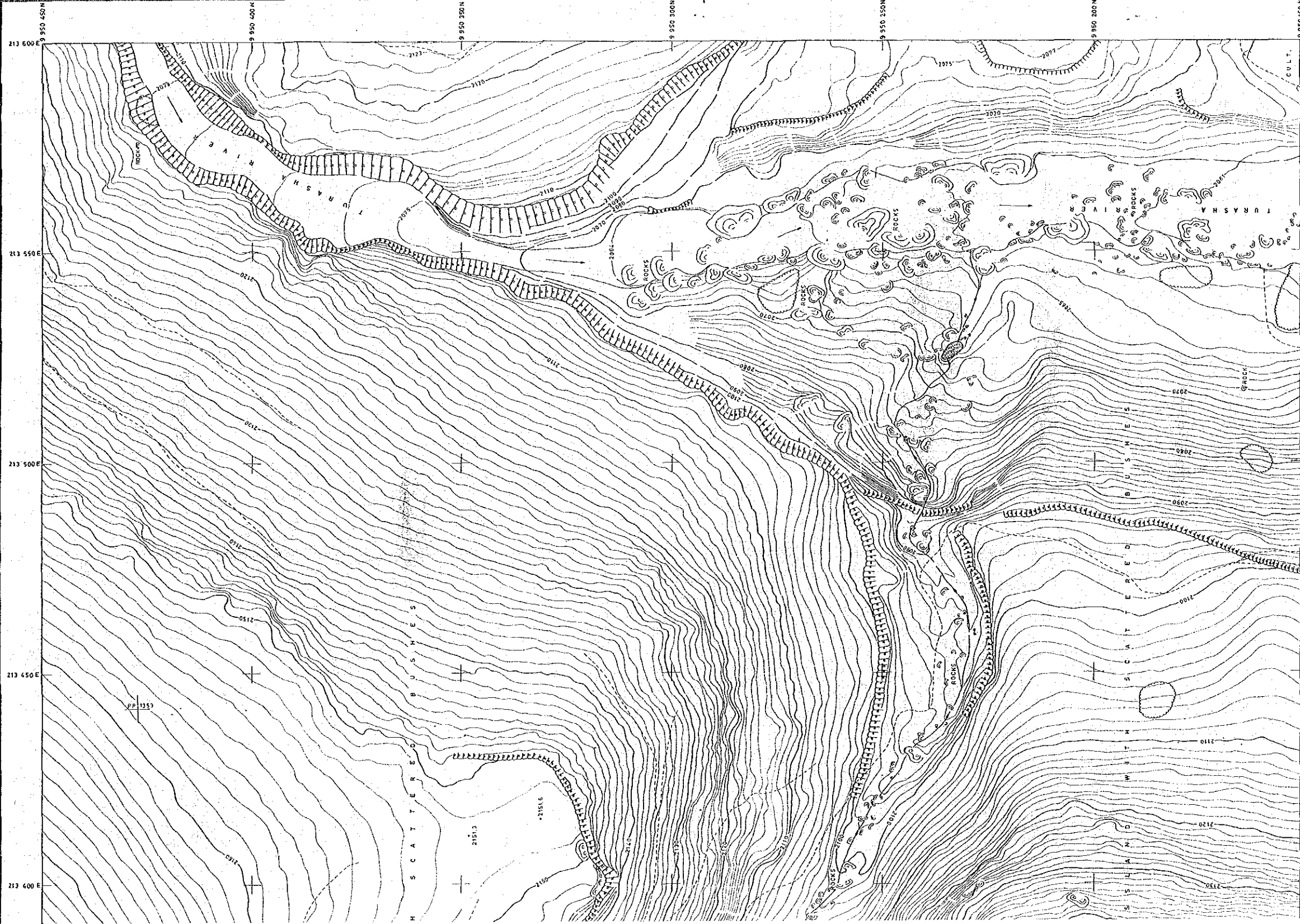
GRID INFORMATION

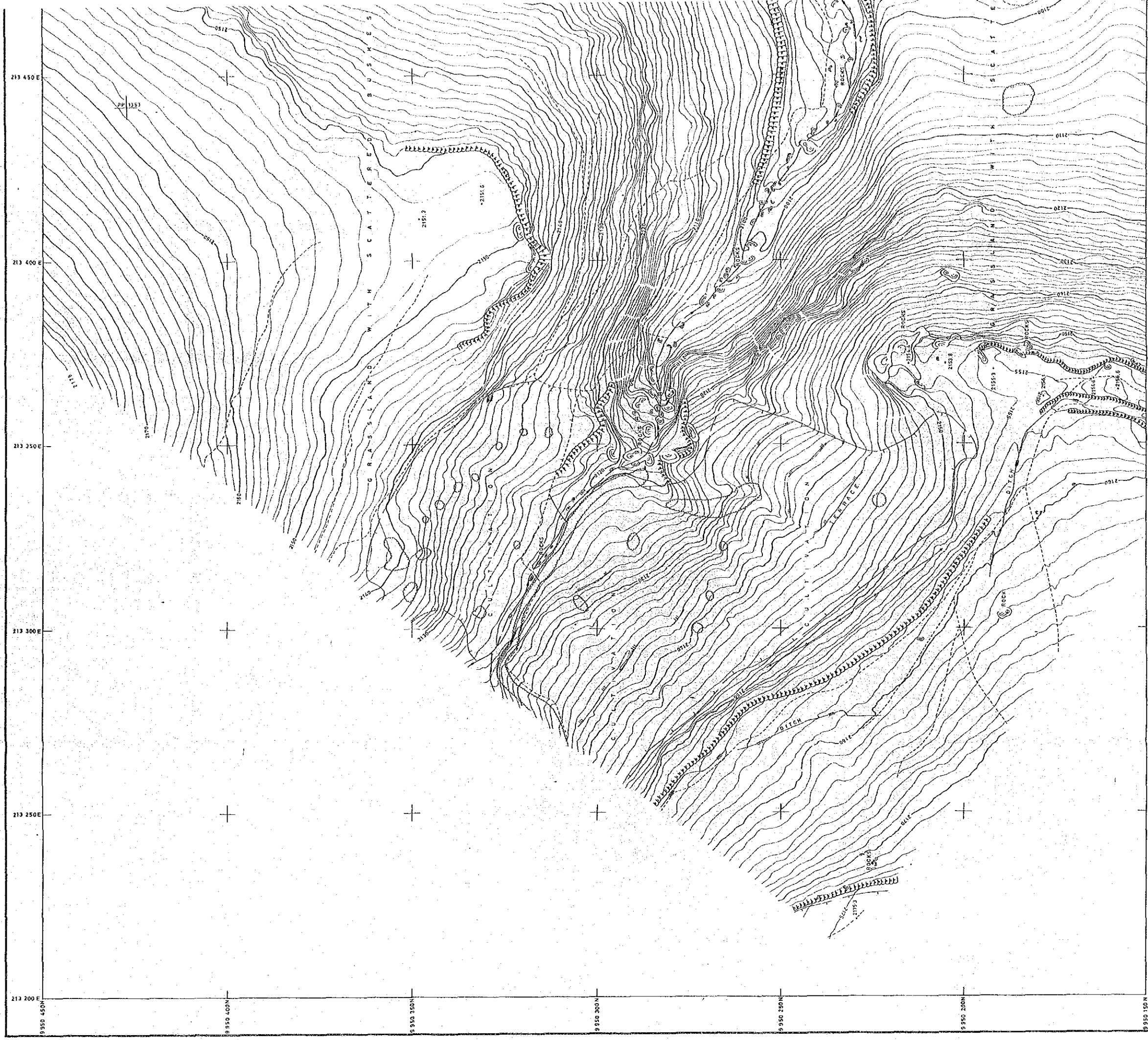
UTM ZONE 37

MAP HISTORY

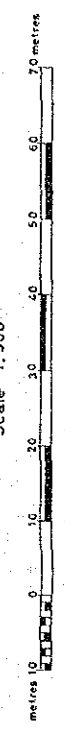
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JAPAN INTERNATIONAL COOPERATION AGENCY





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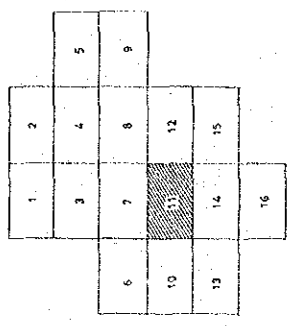


THE STUDY ON CONSTRUCTION OF DAM
IN MALEWA RIVER SYSTEM
FOR
GREATER NAKURU WATER SUPPLY PROJECT

Scale 1 : 500

TURASHA DAM SITE

SHEET INDEX



LEGEND

- Tarmac Road
- Murrum Road
- Railway Line
- Motorable Track
- Footpath
- Houses, Huts
- Fence, Hedge
- Cultivation
- Quarry
- Cutting, Embankment
- Bridge
- Box culvert, Pipe culvert
- Revetment
- Sluice
- Watergate (Flood gate)
- Rock
- Precipice land slide
- Ciffs
- Pans
- Rivers and streams
- Intermittent stream
- Forest, Trees
- Traverse Point, Principal Point
- Spot height
- Contours v.l. m. index 10m.
- Form Lines

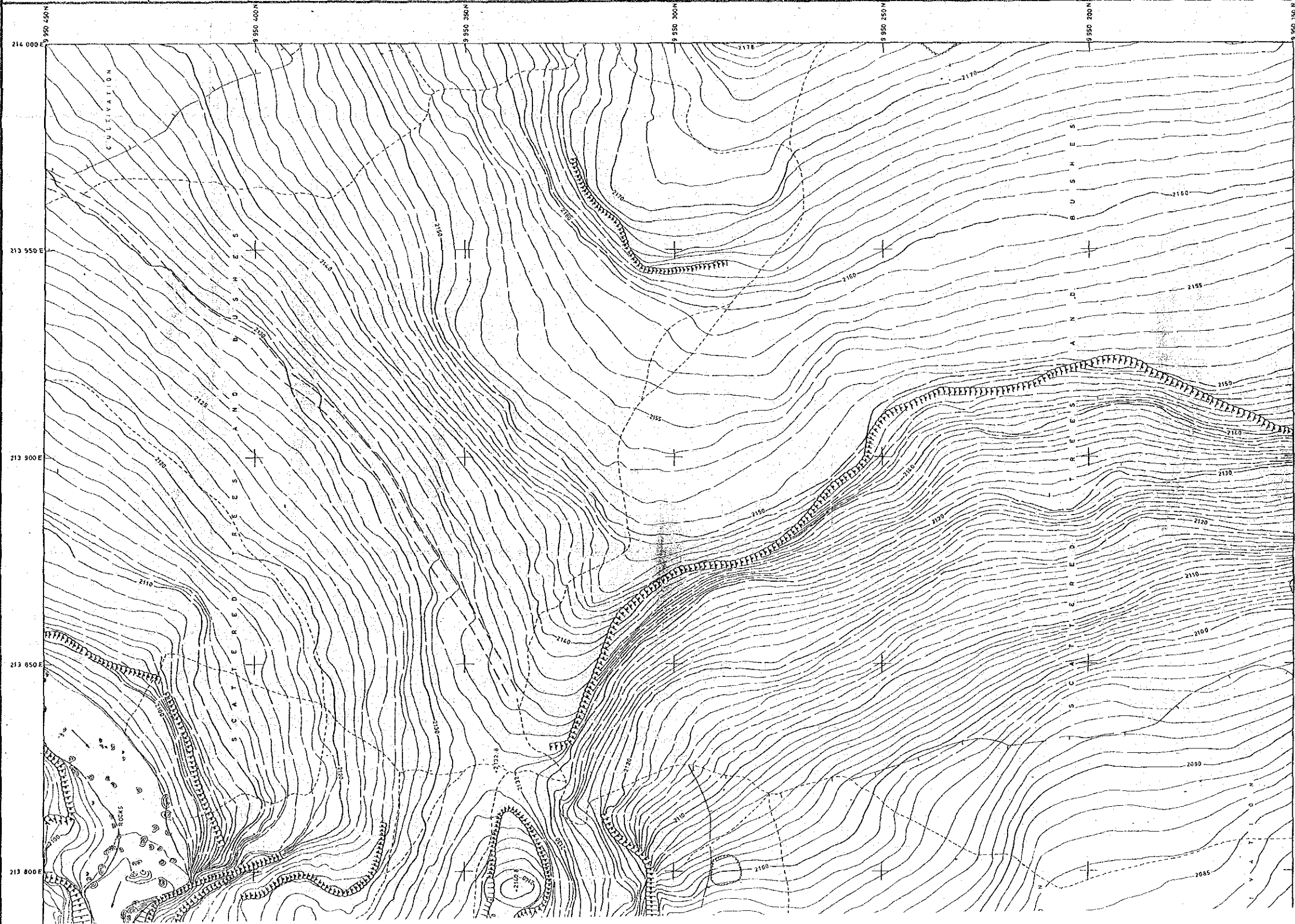
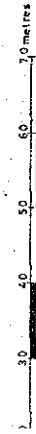
GRID INFORMATION

UTM ZONE 37

MAP HISTORY

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