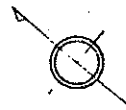


IN SMALL-SCALE
DEVELOPMENT PROJECT
ANZANIA



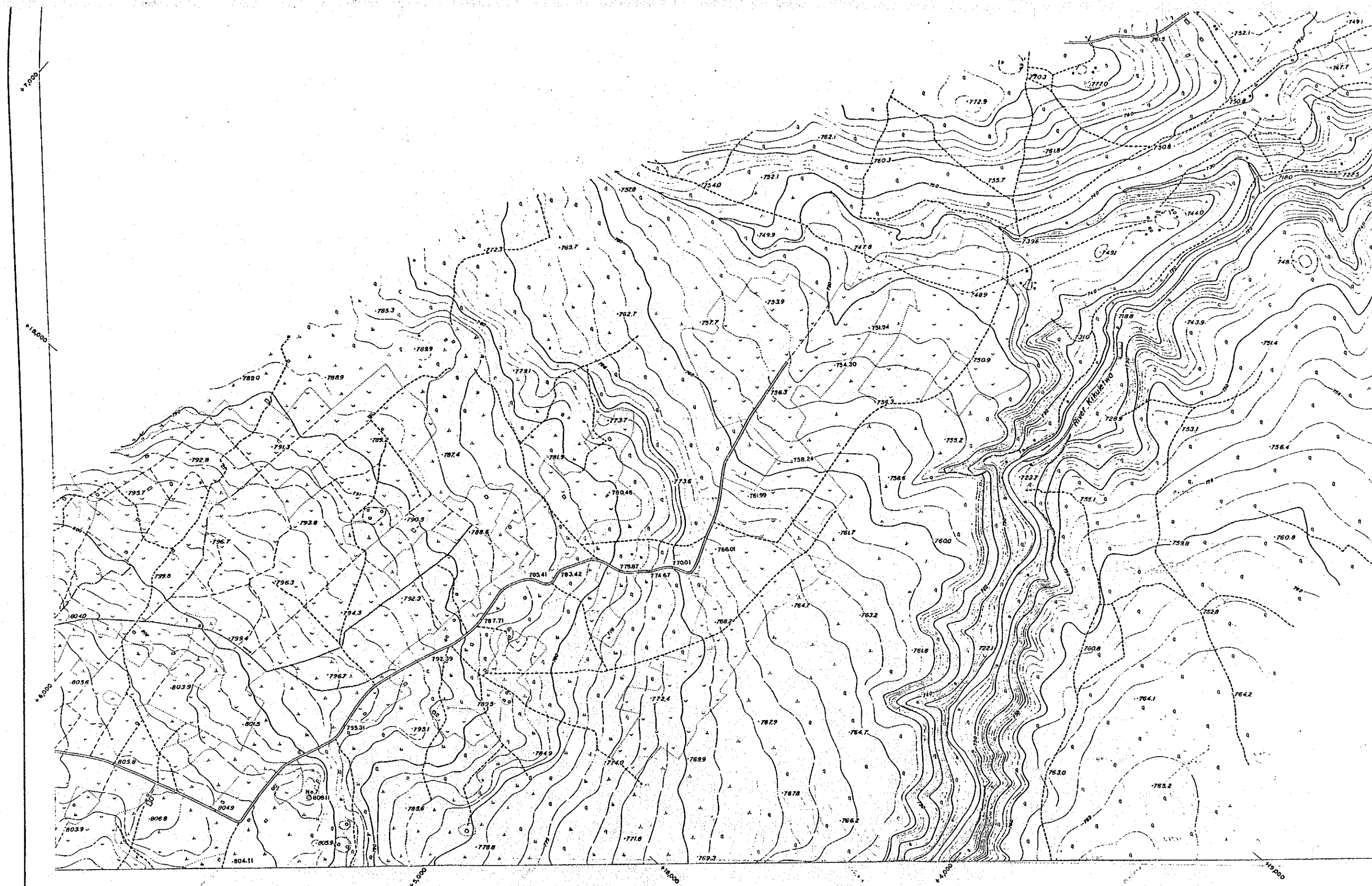
INDEX TO ADJOINING SHEETS

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LEGEND

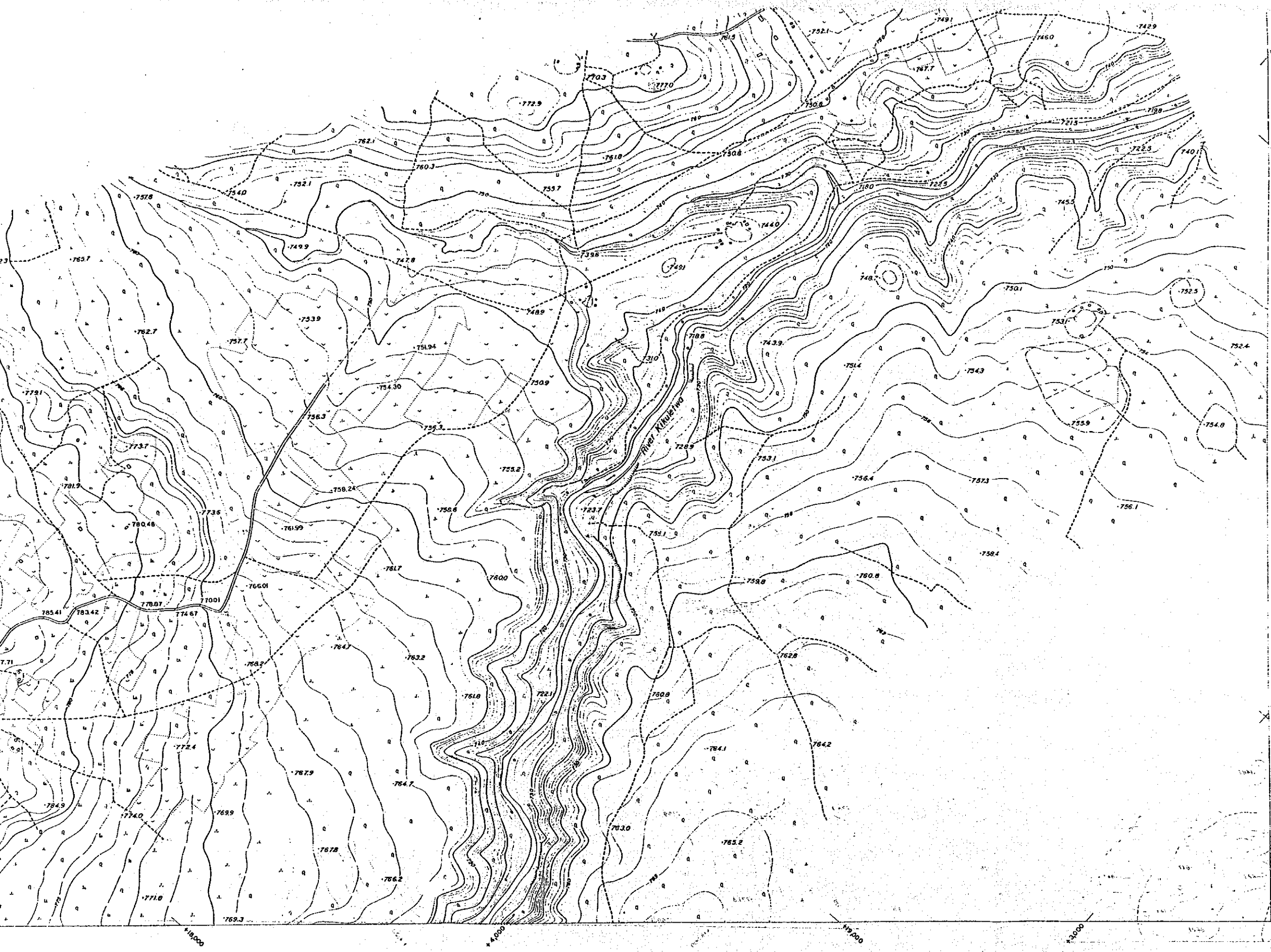
Trigonometrical Station	▲ 123
Traverse Point	• 12
Bound Mark	○ 12345
Water Leveling	— 12.34
Spot Height	— 12
Railway	— 12 0
Public Road	— 12 1
Track	— 12 2
Bridge	— 12 3
Canal	— 12 4
Enclosure	— 12 5
Line of Vegetation	— 12 6
Linear Drainage Falls	— 12 7
Level Line	— 12 8
Force Page 100	— 12 9
Water Falls Fall	— 12 10
Dry Creek Fall	— 12 11
Field	— 12 12
Scrub	— 12 13
Grassland	— 12 14
Scrubbed Tree	— 12 15
Perennial Stream	— 12 16
Seasonal Stream	— 12 17
Wadi	— 12 18
Irregular Canal	— 12 19
Reservoir	— 12 20
Point of Expansion Line	— 12 21
Line of Plant Perennial	— 12 22
Water Center	— 12 23
Structural Center	— 12 24
Hydrographic Center	— 12 25
Supplementary Center	— 12 26
Depression	— 12 27
Tree Shrub	— 12 28
Orch	— 12 29
Outline Area	— 12 30



AERIAL PHOTOGRAPHY DATE : JANUARY 1958
 MAPPING DATE : MARCH 1958
 GRID : LOCAL COORDINATES SYSTEM
 UNIT OF MEASUREMENT : METRE
 CONTOUR INTERVAL : 2 METRE

SCALE 1:5,000





Triangulation Station	△
Water Point	W
Well	W
Enclosure	□
Line of Vegetation	—
Line Between Fields	—
Level Line	—
Fence Ridge Wall	—
Water Paddy Field	
Dry One Field	—
Forest	—
Creek	—
Drainage	—
Stream Bed	—
Perennial Stream	—
Seasonal Stream	—
Waterfall	—
Impoundment	—
Reservoir	—
Power Transmission Line	—
Limit of Road Reserve	—
Main Center	—
Secondary Center	—
Tertiary Center	—
Quaternary Center	—
Disturbance	—
Tree Stand	—
Open	—
Outline Map	—

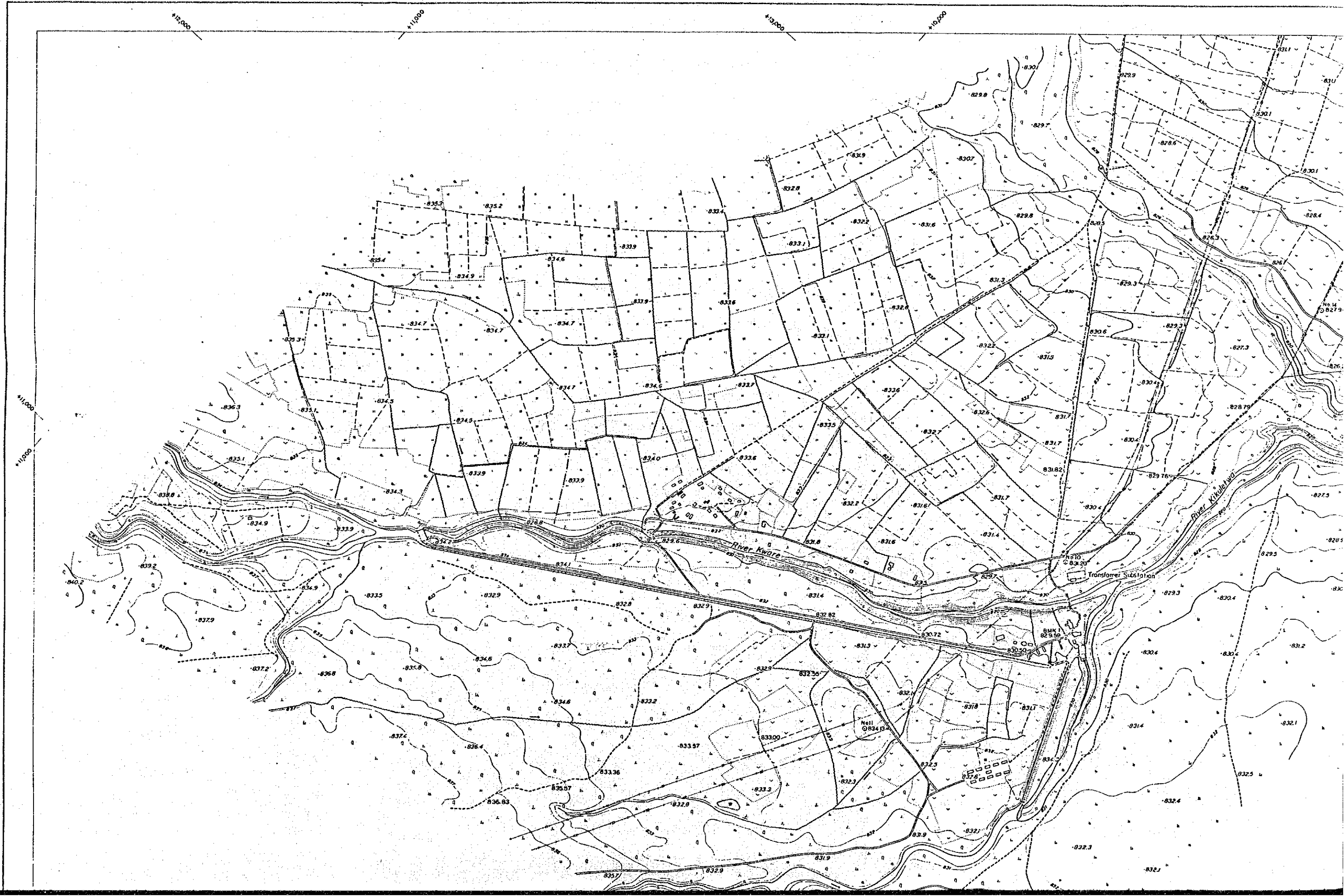
SCALE 1:5,000



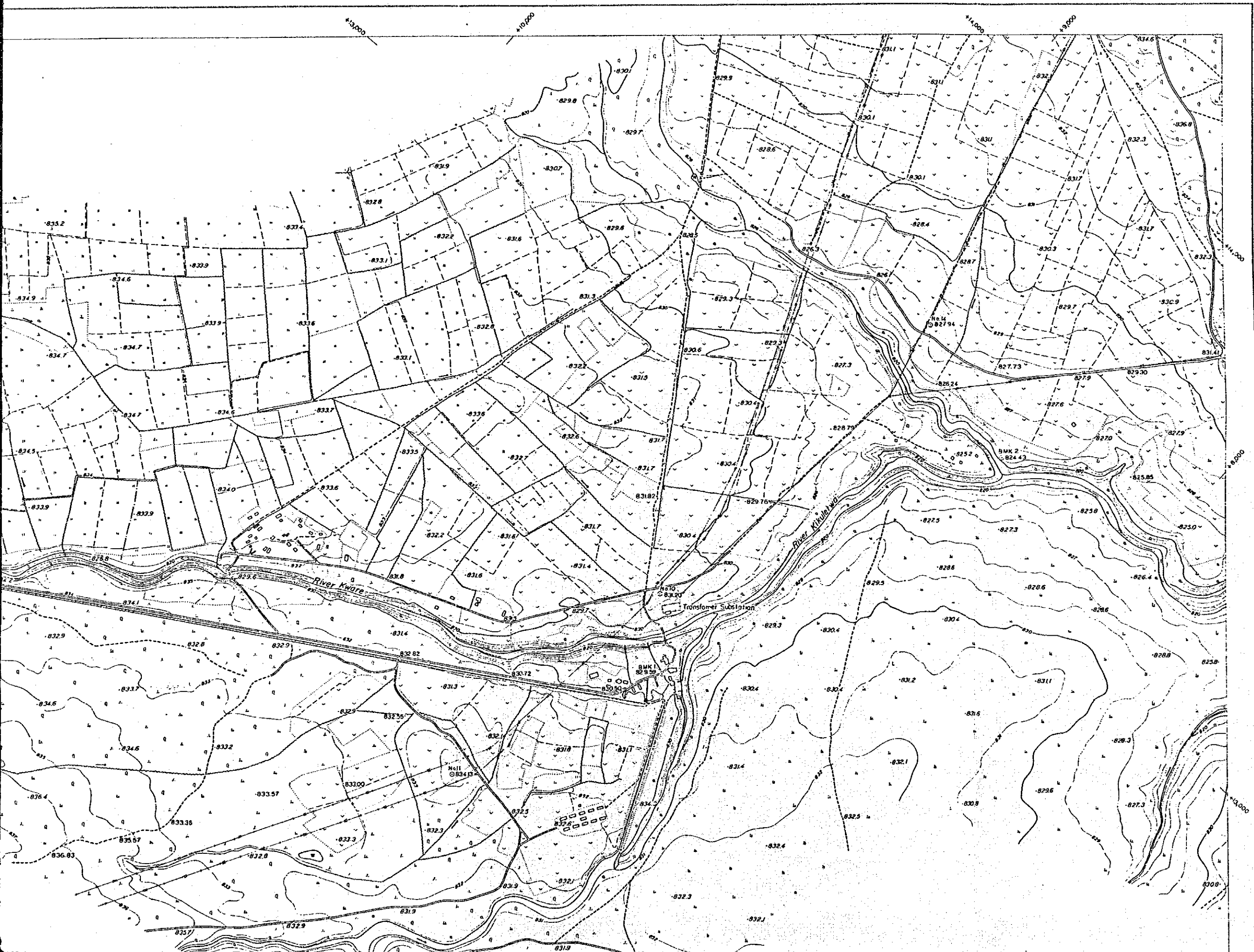
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

SHEET 6-3

COLOUR REPRODUCTION
 FOR INFORMATION
 DATE OF REVISION
 SHEET NO.
 PROJECT NO.

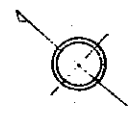


SMALL-SCALE
DEVELOPMENT PROJECT
KAZANIA



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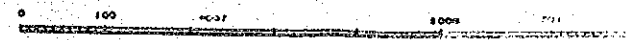
LEGENO

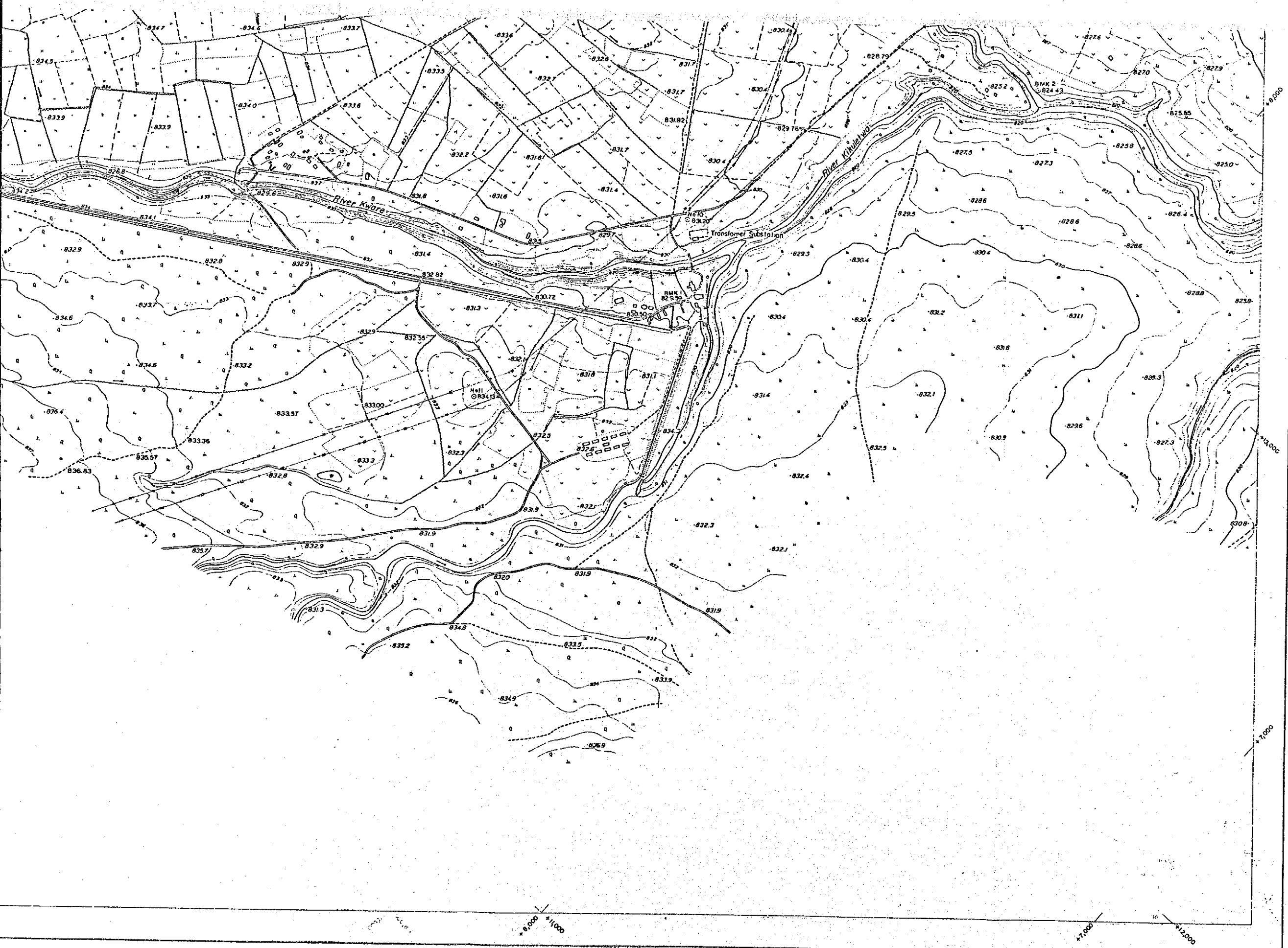
Triangulation Station	▲ 12 3
Traverse Point	● 12
Bench Mark	⊕ 12 345
Water Leveling	+ 12 34
Spot Height	- 12
Building	□
Fence Posts	—
Track	—
Drain	—
Canal	—
Excavation	—
Line of Vegetation	—
Line Between Fields	—
Line Fence	—
Fence Height Wall	—
Water Paddy Field	
Dry Crop Field	~ ~
Forest	▲ ▲
Scrub	△ △
Grassland	△ △
Scattered Trees	○ ○
Perennial Stream	—
Seasonal Stream	—
Waterfall	—
Highway Canal	—
Powerline	—
Power Transmission Line	—
Line of Pond, Reservoir	—
Index Corner	—
Special Corner	—
Half Normal Corner	—
Supplementary Corner	—
Ditch	—
Crack Ditch	—
Canal	—
Quarry Mark	—



AERIAL PHOTOGRAPHY DATE : JANUARY 1988
 MAPPING DATE : MARCH 1988
 GRID : LOCAL COORDINATES SYSTEM
 UNIT OF MEASUREMENT : METRE
 CONTOUR INTERVAL : 2 METRE

SCALE 1:5,000





Watercourse	---
Track	---
Bridge	---
Cutting	---
Embankment	---
Line of Vegetation	---
Line Between Fields	---
Level Lines	---
Power Supply Line	---
River Falls	
Dry Creeks	~
Forest	▲
Shrub	△
Cropland	△
Saltwater Trees	□
Perennial Stream	---
Seasonal Stream	---
Waterfall	---
Irrigation Canal	---
Reservoir	---
Power Transmission Line	---
Line of Road	---
Water Course	---
Stream Course	---
High Water Course	---
Seasonal Course	---
Ditch	---
Some Stone	---
Dike	---
Quarry Hole	---

SCALE 1:5,000

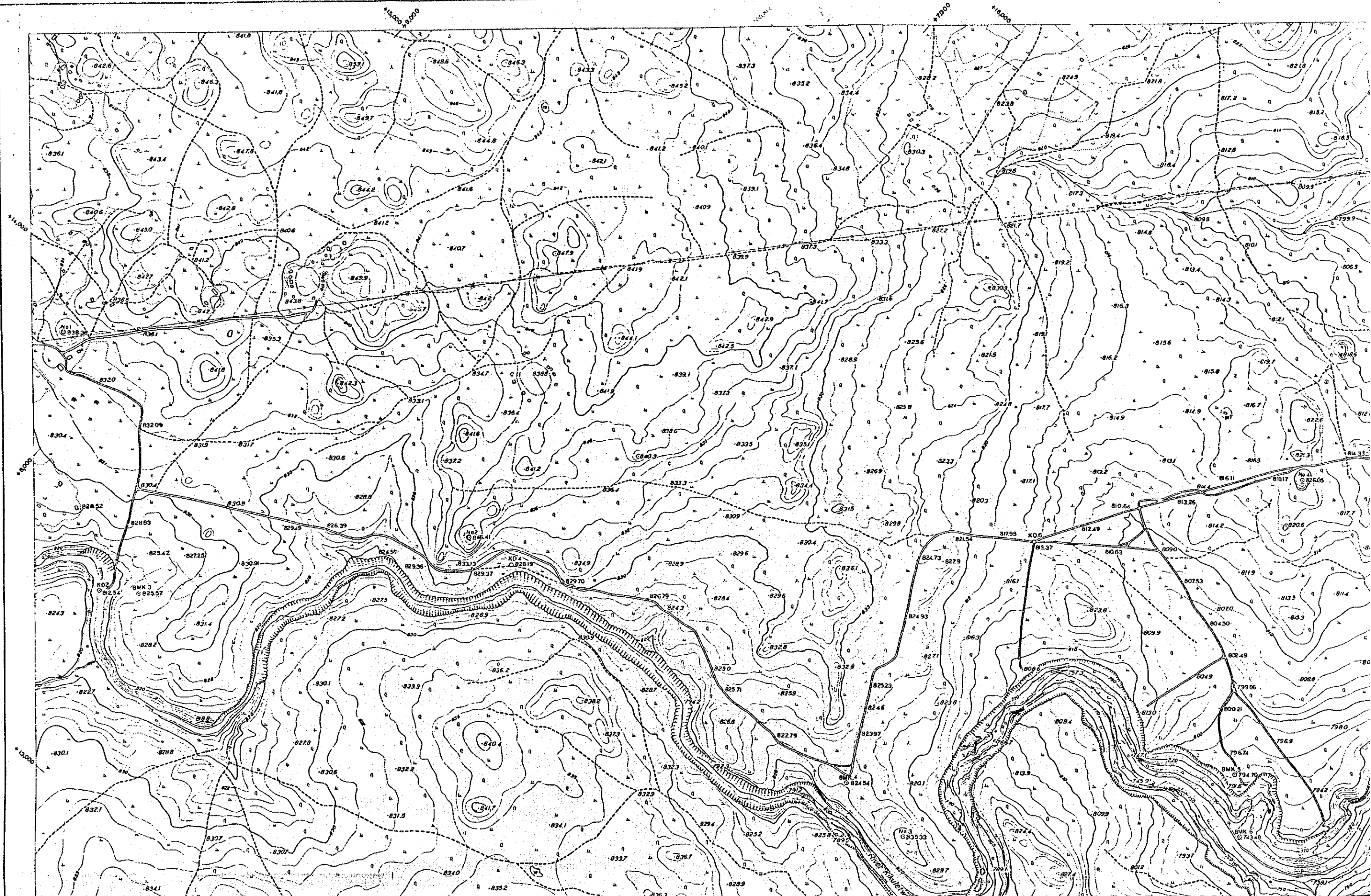


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

SHEET 6 - 4

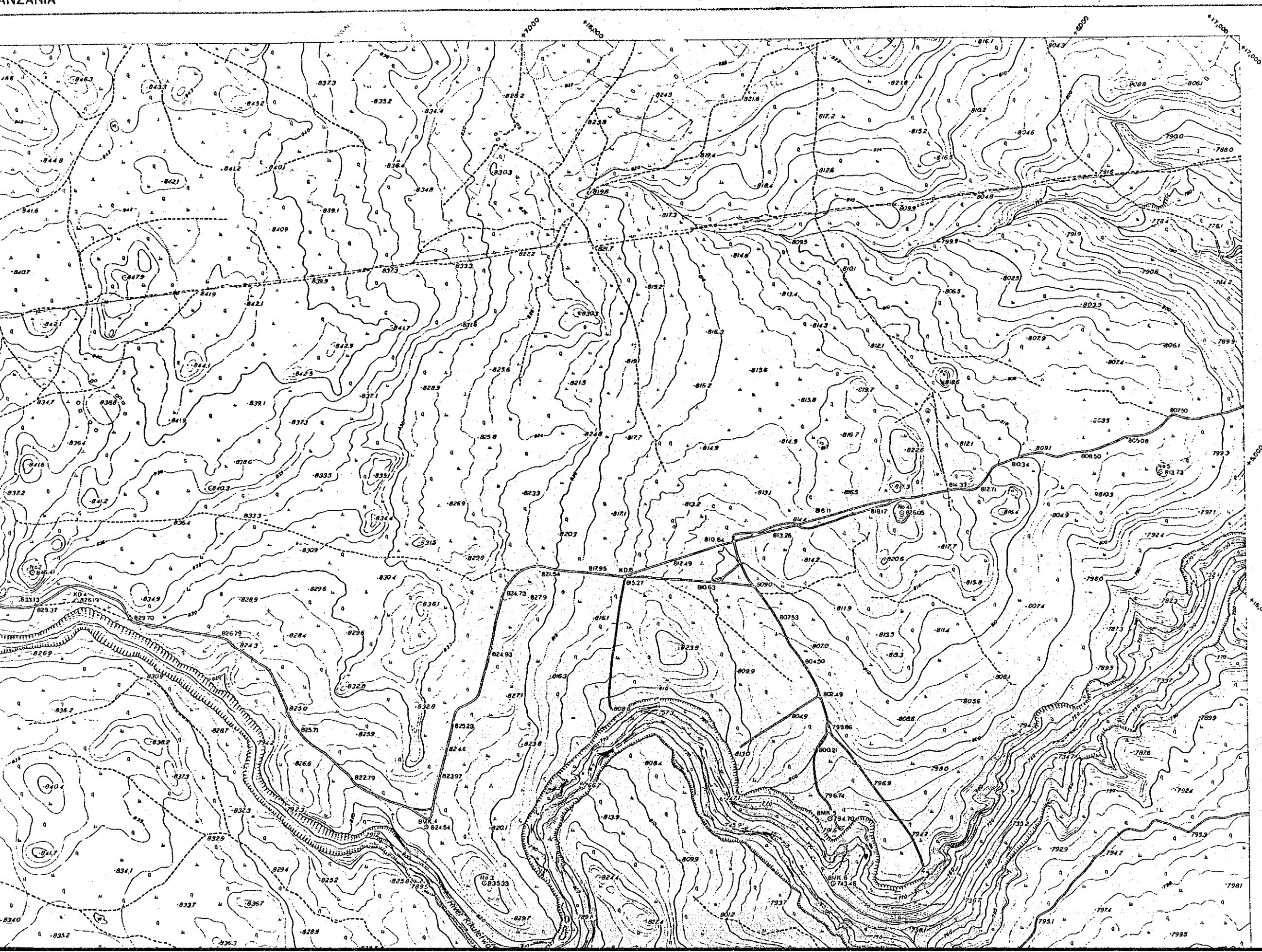
STATE OF NIGERIA
MINISTRY OF WATER RESOURCES
JAYESKI PROJECT

THE FEASIBILITY STUDY ON SMALL-SCALE
HYDROELECTRIC POWER DEVELOPMENT PROJECT
IN KILIMANJARO REGION TANZANIA



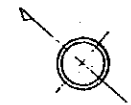
SMALL-SCALE
DEVELOPMENT PROJECT
TANZANIA

SCALE
PROJECT



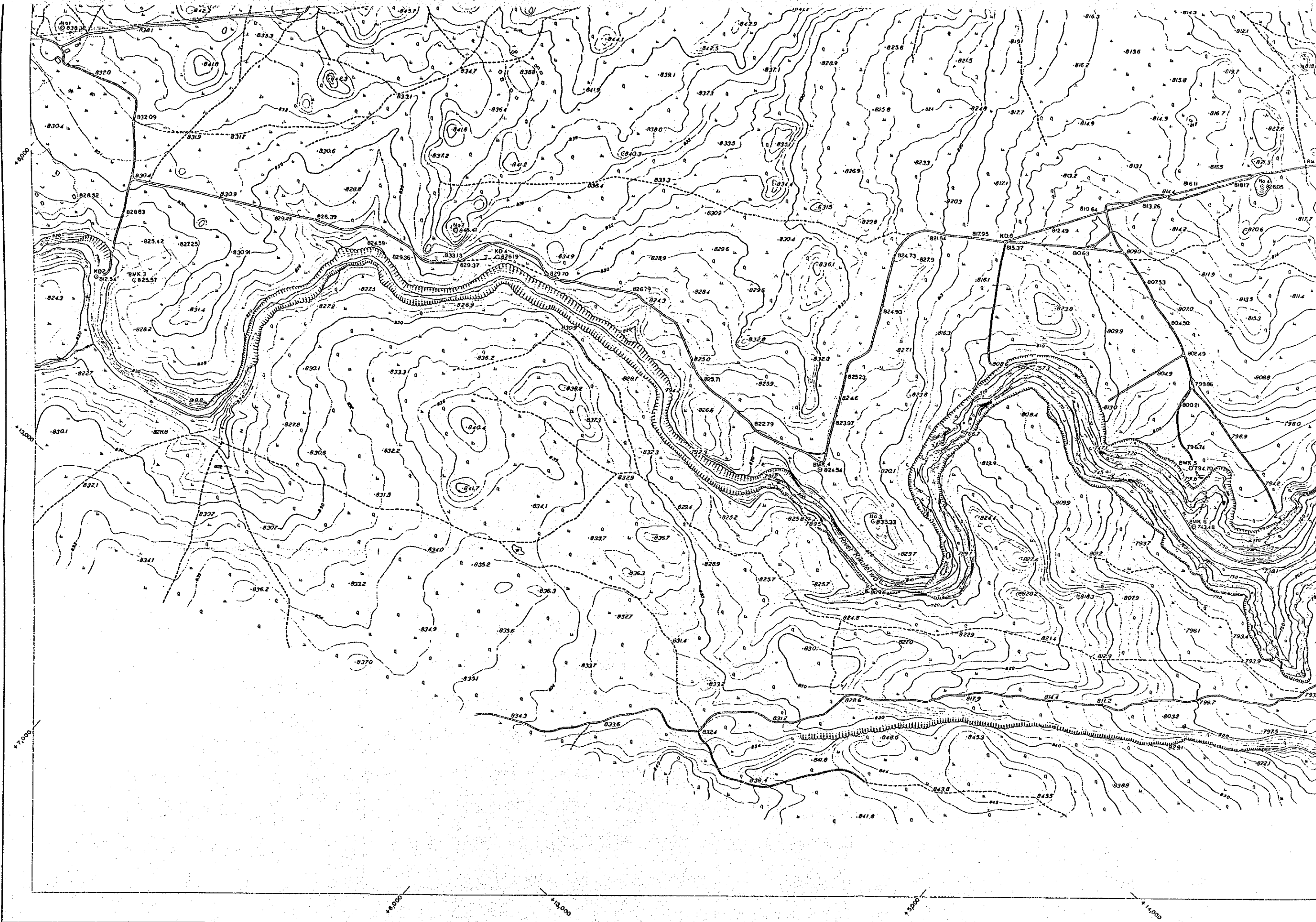
INDEX TO ADJOINING SHEETS

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6-4	6-5	6-6



LEGEND

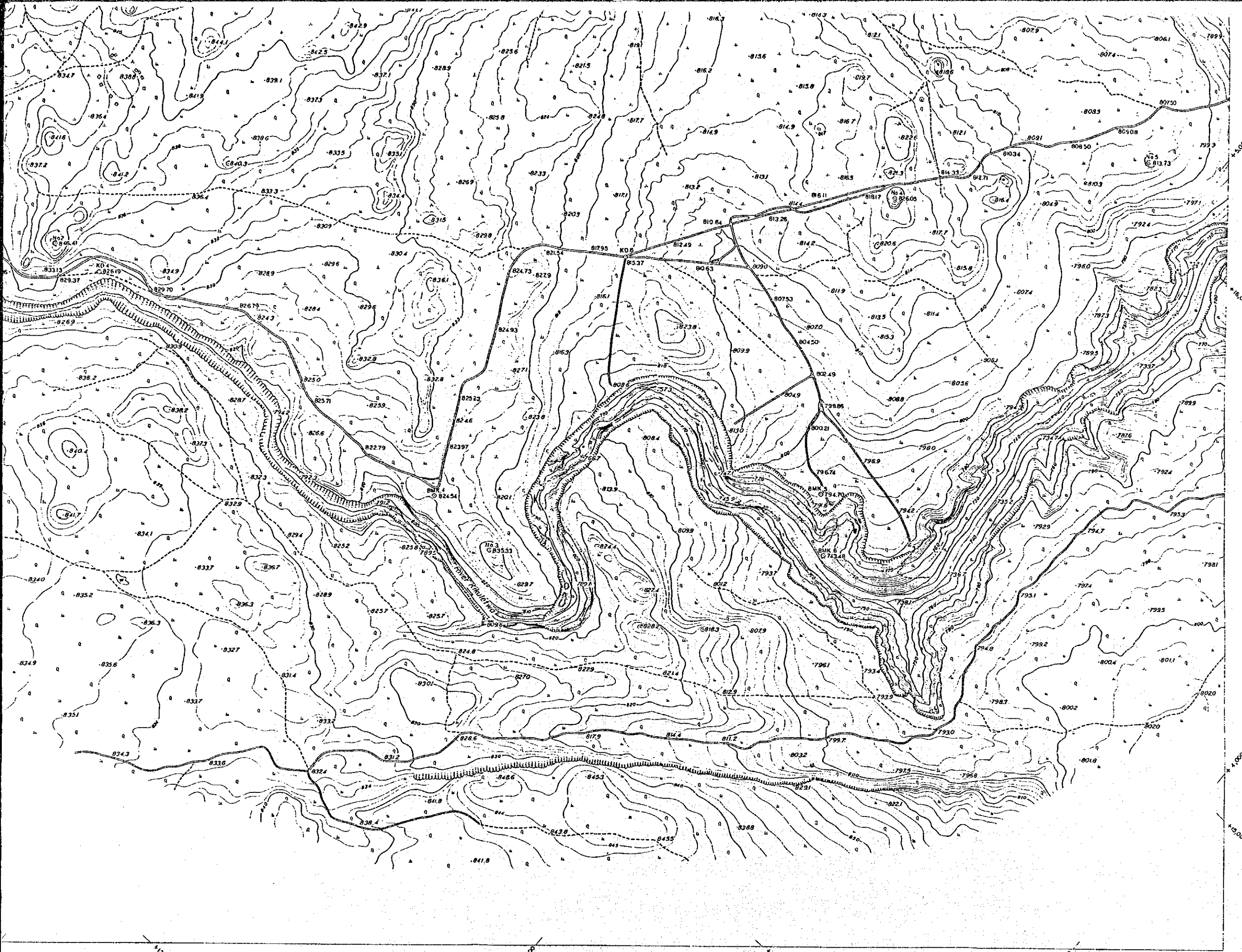
Triangulation Station	▲ 12.3
Traverse Point	● 12
Spot Height	○ 12.345
Water Leveling	+12.34
Sea Level	-12
Building	□
Farmstead	○
Track	— · — · — · — · —
Gravel	— — — — —
Concrete	— = — = — = — = —
Low-level	— — — — —
Level of Ingression	— · — · — · — · —
Line Between Fields	— · — · — · — · —
Level Track	— — — — —
Foot Road	— · — · — · — · —
Water Ponds Field	□ □
Dry One Field	□ □
Tree	△
Shrub	△
Grassland	△
Scattered Trees	△
Principal Street	— = — = — = — = —
Secondary Street	— — — — —
Roadway	— · — · — · — · —
Impassable Canal	— — — — —
Navigation	— — — — —
Power Transmission Line	— = — = — = — = —
Lake or Pond Perimeter	— · — · — · — · —
Water Center	○
Standard Center	○
High Impact Center	○
Subsidiary Center	○
Depression	○
Spot Height	○
City	— · — · — · — · —
Outline Map	— · — · — · — · —



AERIAL PHOTOGRAPHY DATE : JANUARY 1988
 MAPPING DATE : MARCH 1988
 GRID : LOCAL COORDINATES SYSTEM
 UNIT OF MEASUREMENT : METRE
 CONTOUR INTERVAL : 2 METRE

SCALE 1:5,000





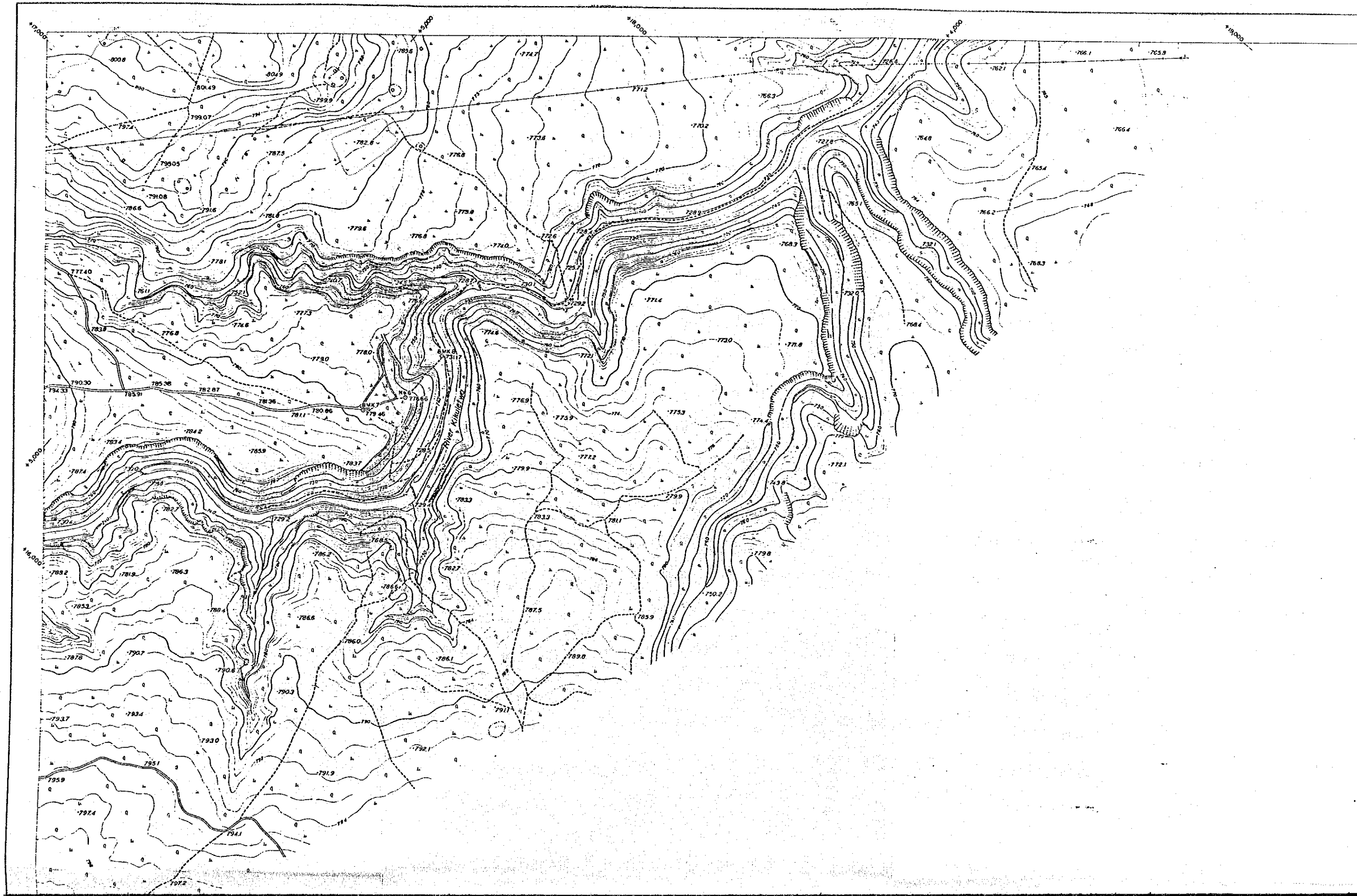
Triangulation Point	△	12
Spot Height	□	12 345
Water Level	—	12 34
Sea Level	—	12
Spring	○	○
Family Road	—	
Track	—	
Grass	—	
Cultiv.	—	
Low Water	—	
Line of Vegetation	—	
Line Between Fields	—	
Level Line	—	
Fence Ridge Top	—	
Water Falls Field		
Dry Cree Field	v	v
Yard	△	△
Shed	△	△
Greenhouse	△	△
Scattered Trees	○	○
Perennial Stream	—	
Seasonal Stream	—	
Kanals	—	
Ingrain Canal	—	
Reservoir	—	
Power Transmission Line	—	
Like or Pond Perimeter	—	
Iron Corner	—	
Standard Corner	—	
High Internal Corner	—	
Supplementary Corner	—	
Direction	○	
Scale Sheet	—	
DLs	—	
Quarry Mark	—	

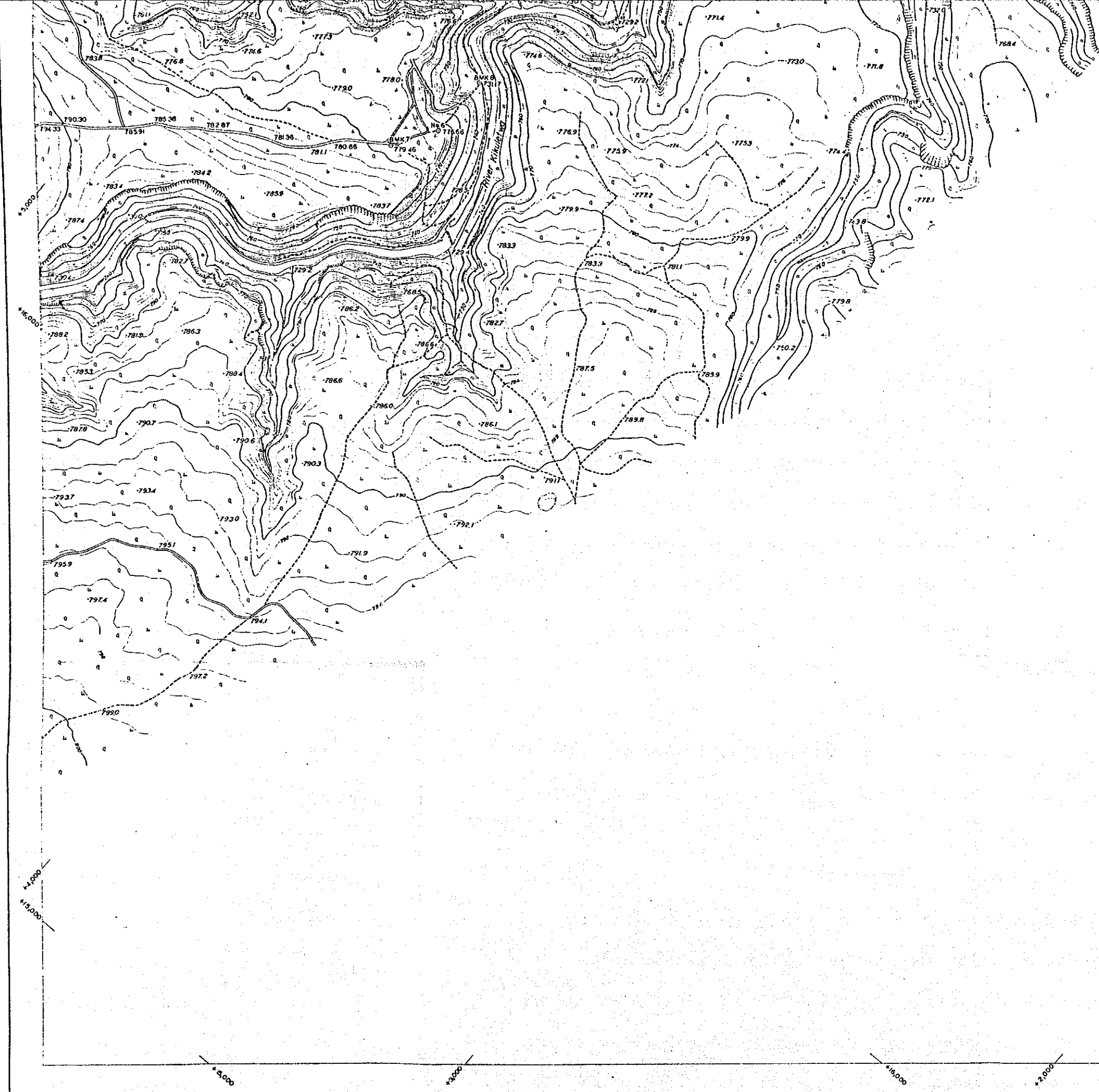
SCALE 1:5,000



JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

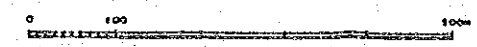
SHEET 6-5

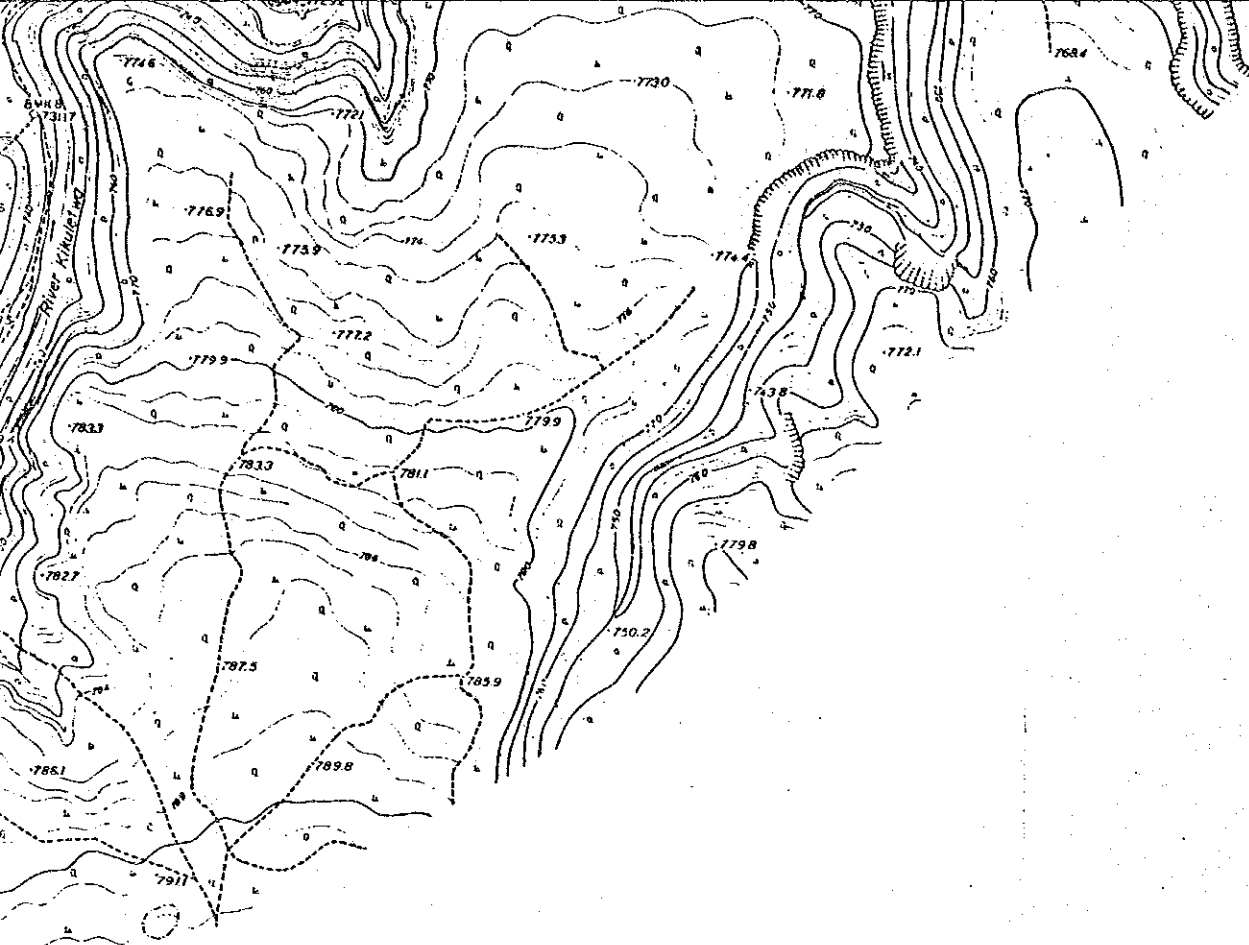




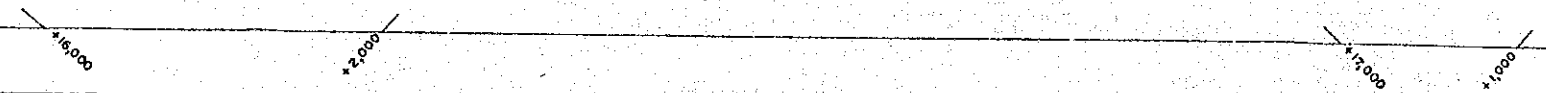
AERIAL PHOTOGRAPHY DATE : JANUARY 1988
 MAPPING DATE : MARCH 1988
 GRID : LOCAL COORDINATES SYSTEM
 UNIT OF MEASUREMENT : METRE
 CONTOUR INTERVAL : 2 METRE

SCALE 1:5,000





Triangulation Station	▲ 12.3
Transect Point	● 12
Bench Mark	⊕ 12.345
Water Level	— 12.34
Sea Level	— 12
Contour	○ 0
Contour Interval	10
Peak	⊕
Bridge	—
Cutting	—
Embankment	—
Line of Highwater	—
Line Between Falls	—
Lower Falls	—
Water Mill Race	—
Water Falls	—
Dry Creek	—
Field	—
Shrub	—
Grassland	—
Cultivated Field	—
Perennial Stream	—
Seasonal Stream	—
Canal	—
Vegetation Cover	—
Reservoir	—
River Transposition Line	—
Lake or Pond	—
Hamlet	—
Primary Center	—
Secondary Center	—
Subsidiary Center	—
Dispersed	—
Tree Shrub	—
Cliff	—
Gravel Bar	—

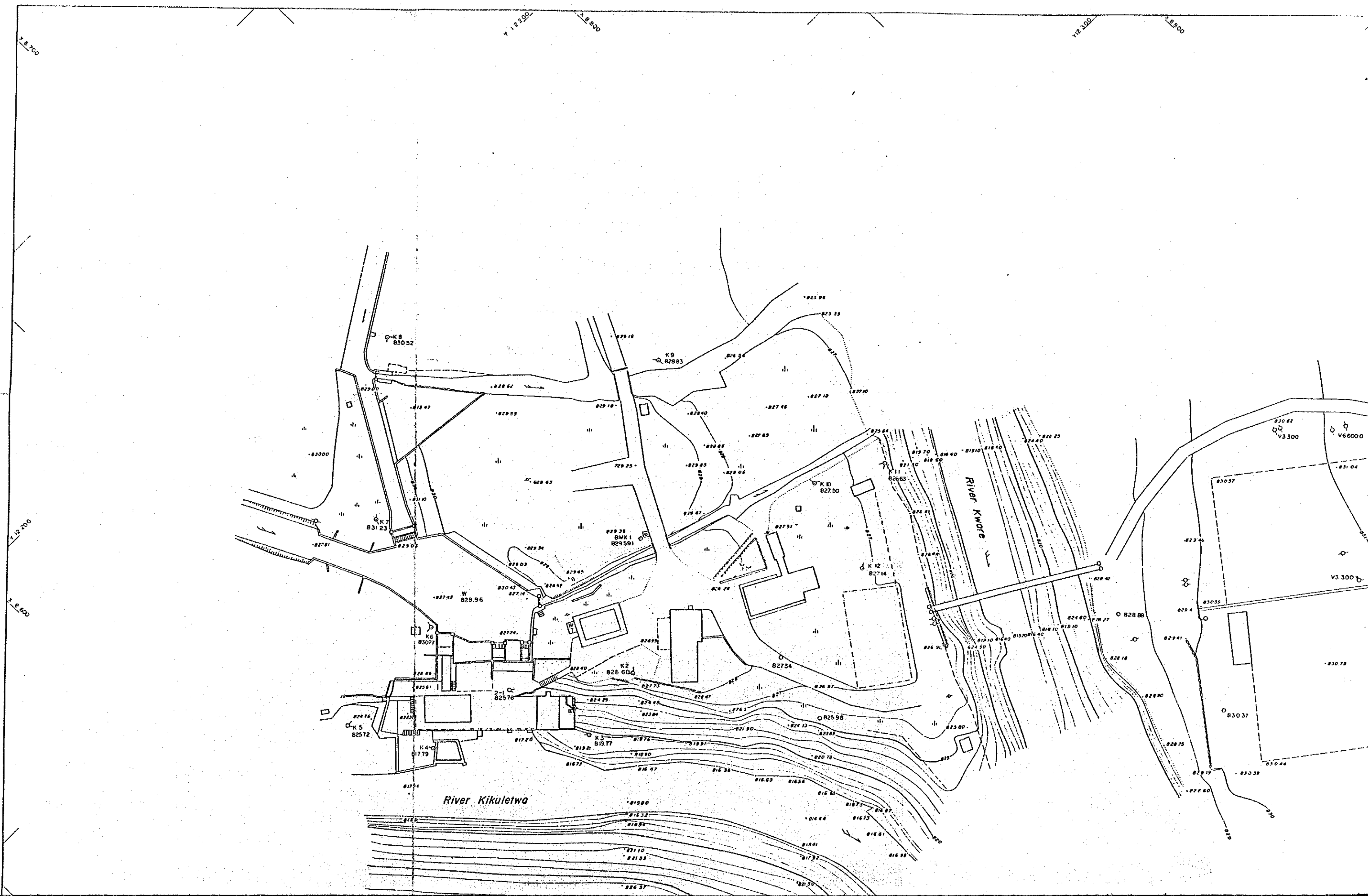


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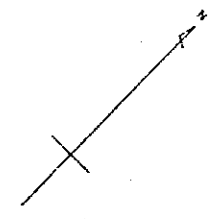


JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

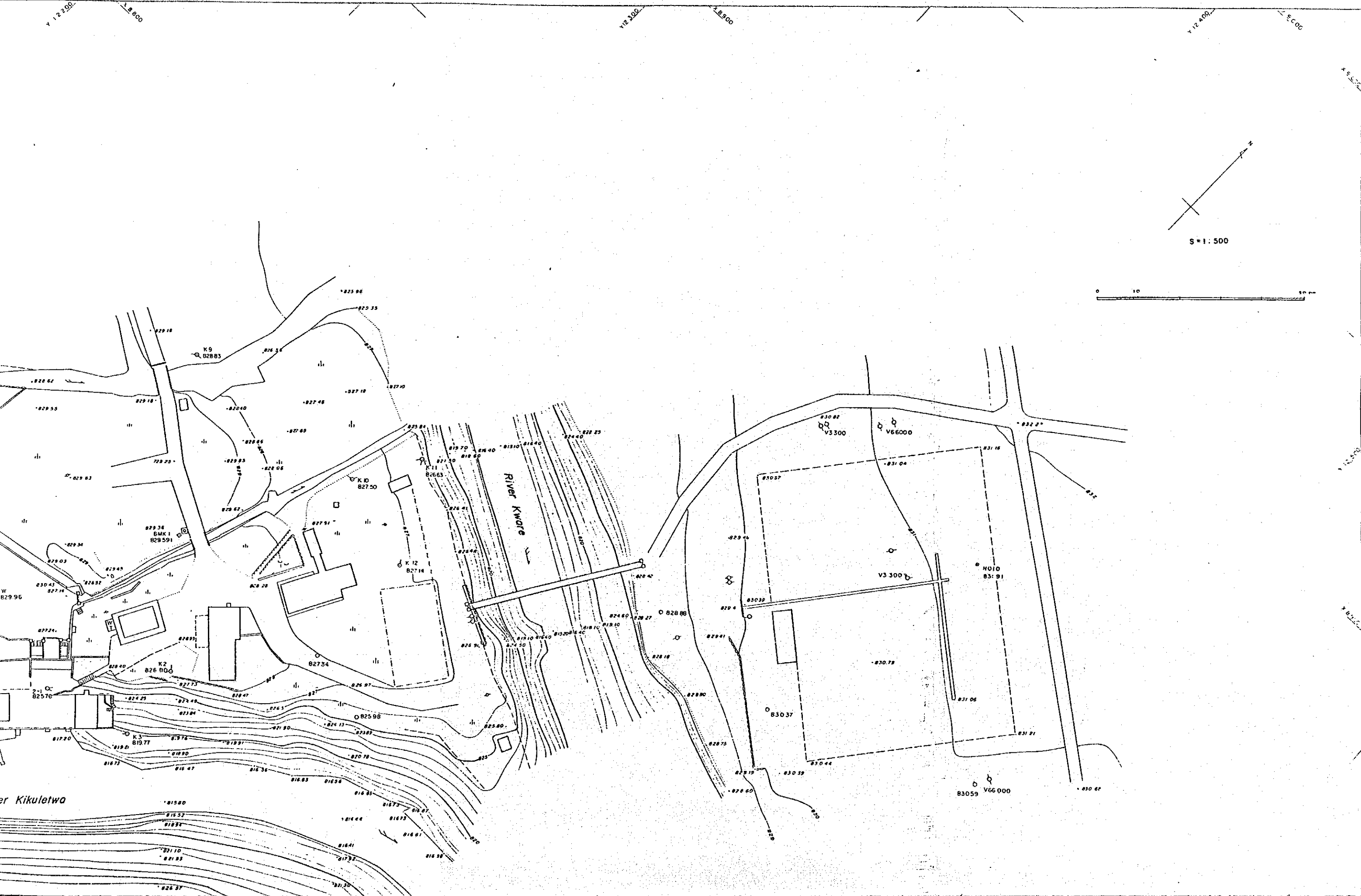
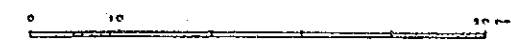
SHEET 6-6



12 200 12 400 12 600 12 800 13 000 13 200 13 400 13 600



S = 1 : 500



er Kikuletwa



River Kikuletwa

RIVER KWARA

12 700

12 600

12 300

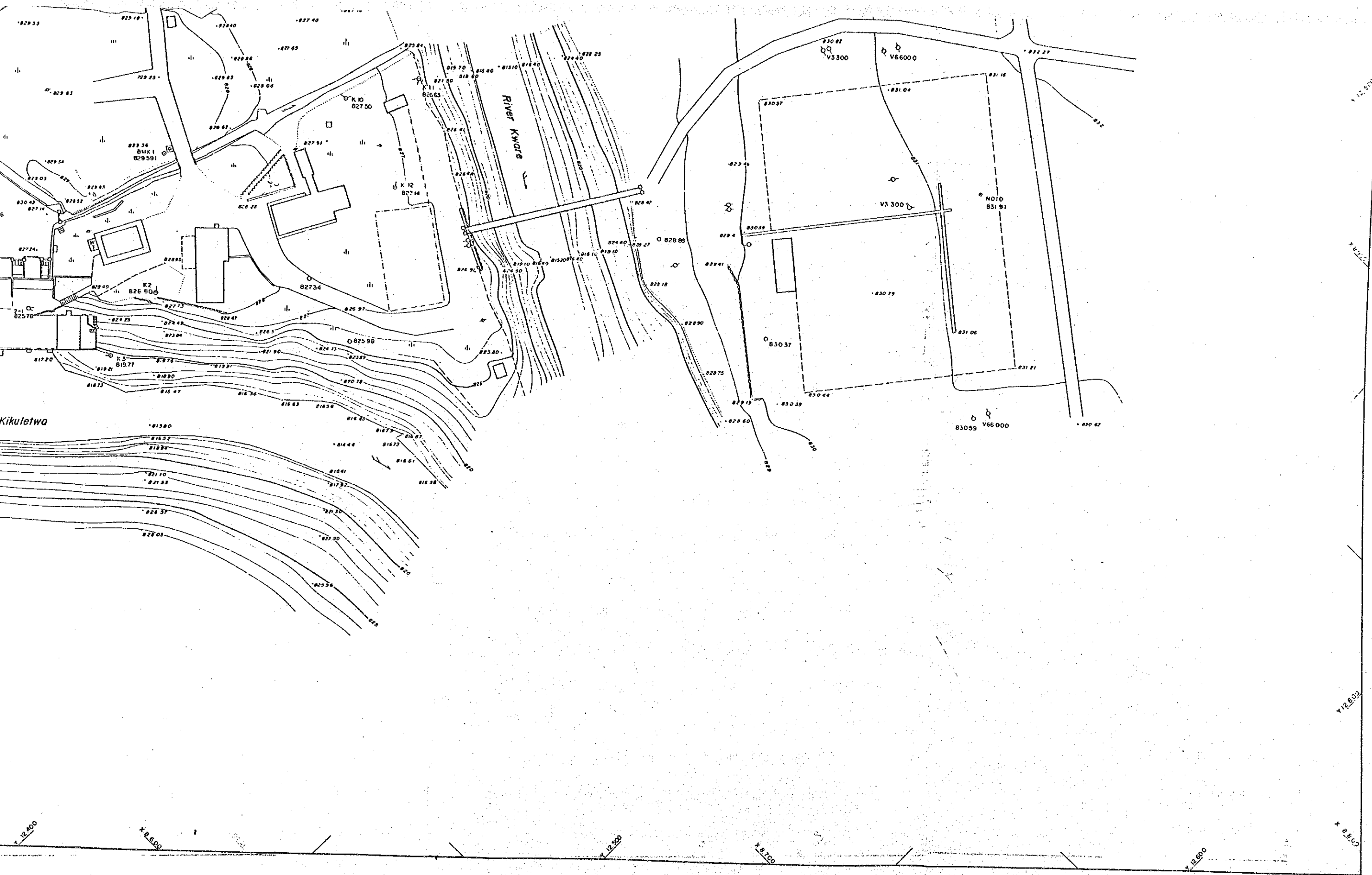
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12 800

12 600

12 200

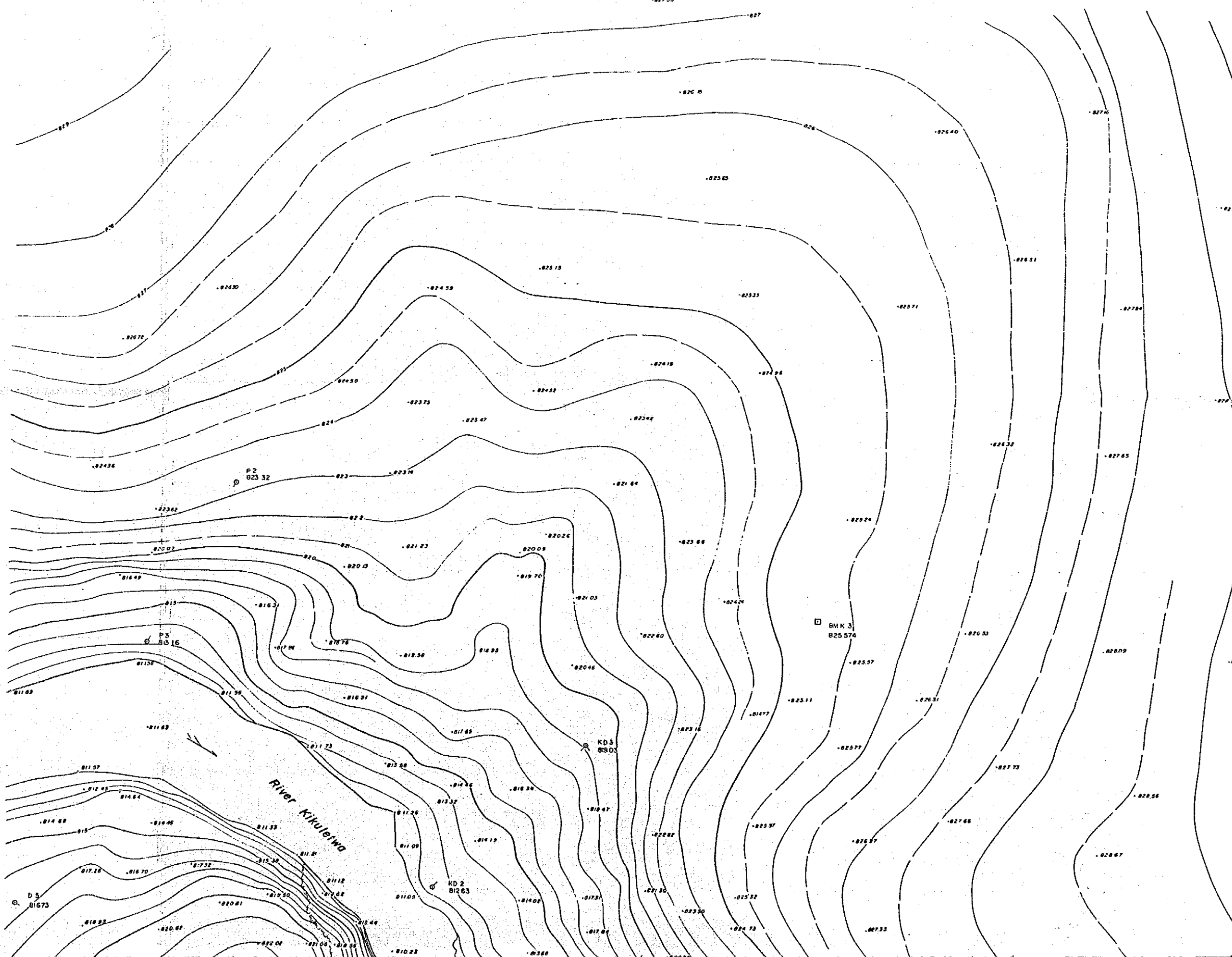
12 100



X 7800 X 7700 X 7600 X 7500

Y 13 600

Y 13 500



River Kikulwa

BM K 3
825 574

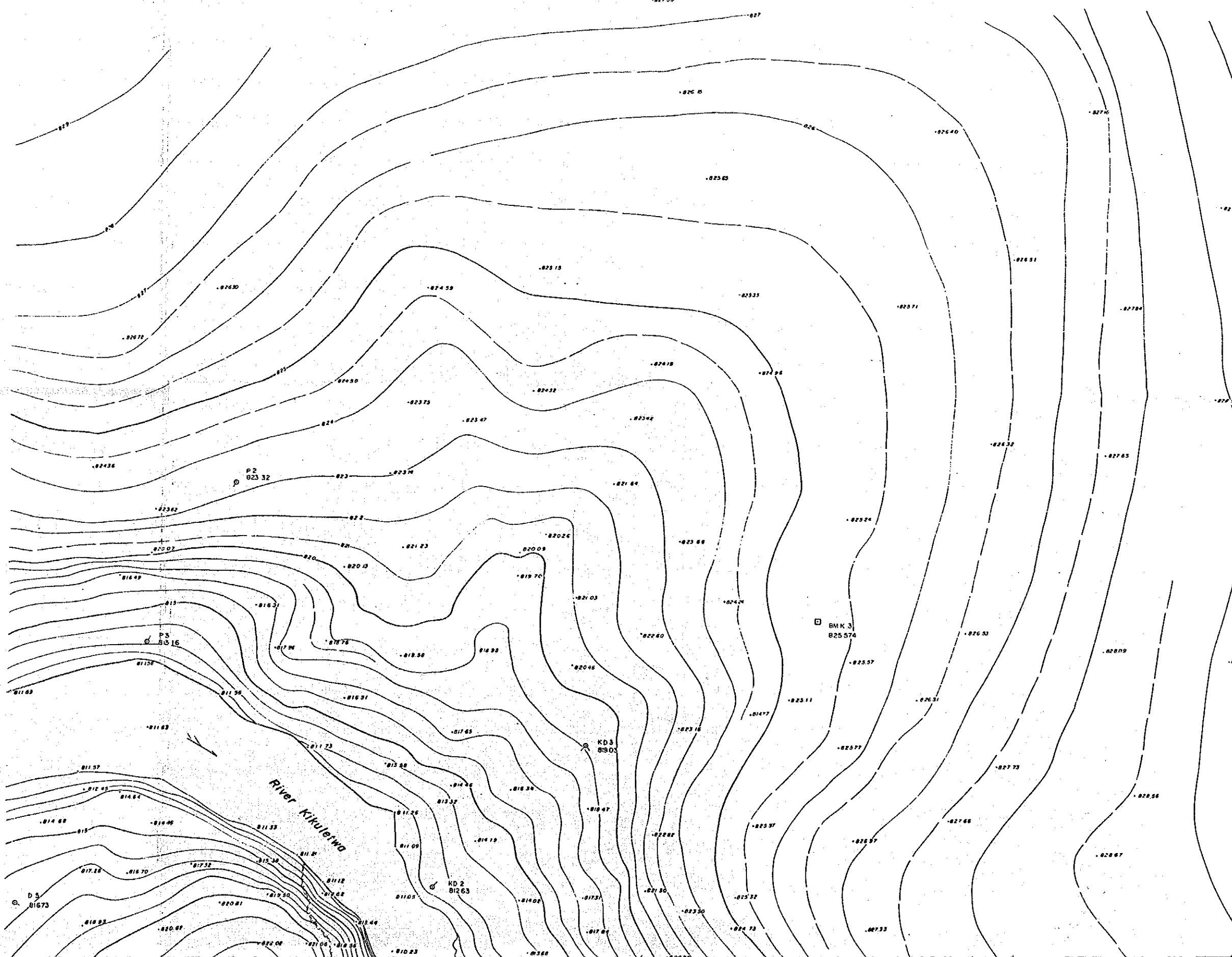
P 2
823 32

P 5
816

K D 3
819 05

K D 2
812 63

D 5
816 73



River Kikulwa

BM K 3
825 574

P 2
823 32

P 5
816

K D 3
819 05

K D 2
812 63

D 5
816 73

Y 13 500

Y 13 400

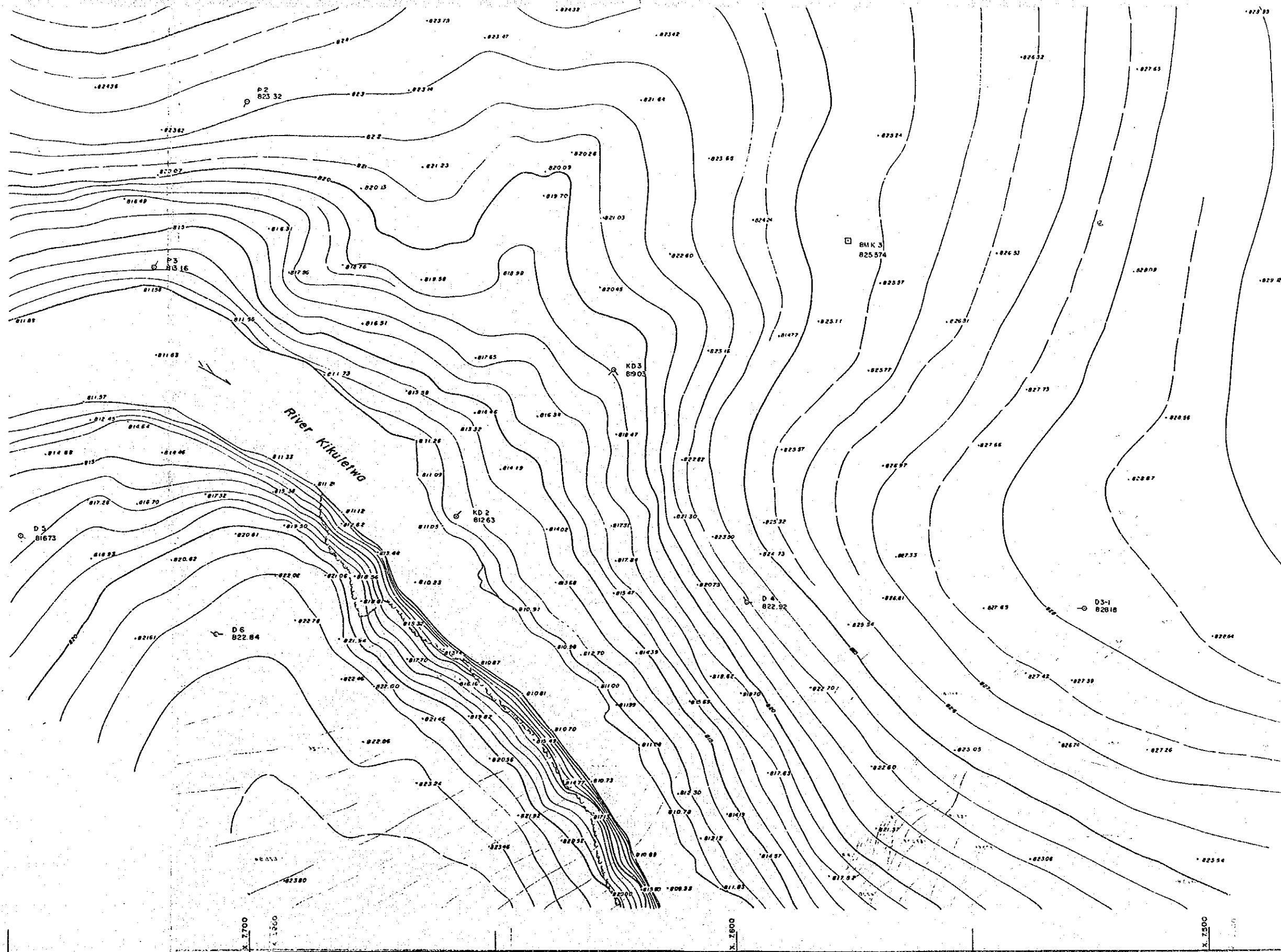
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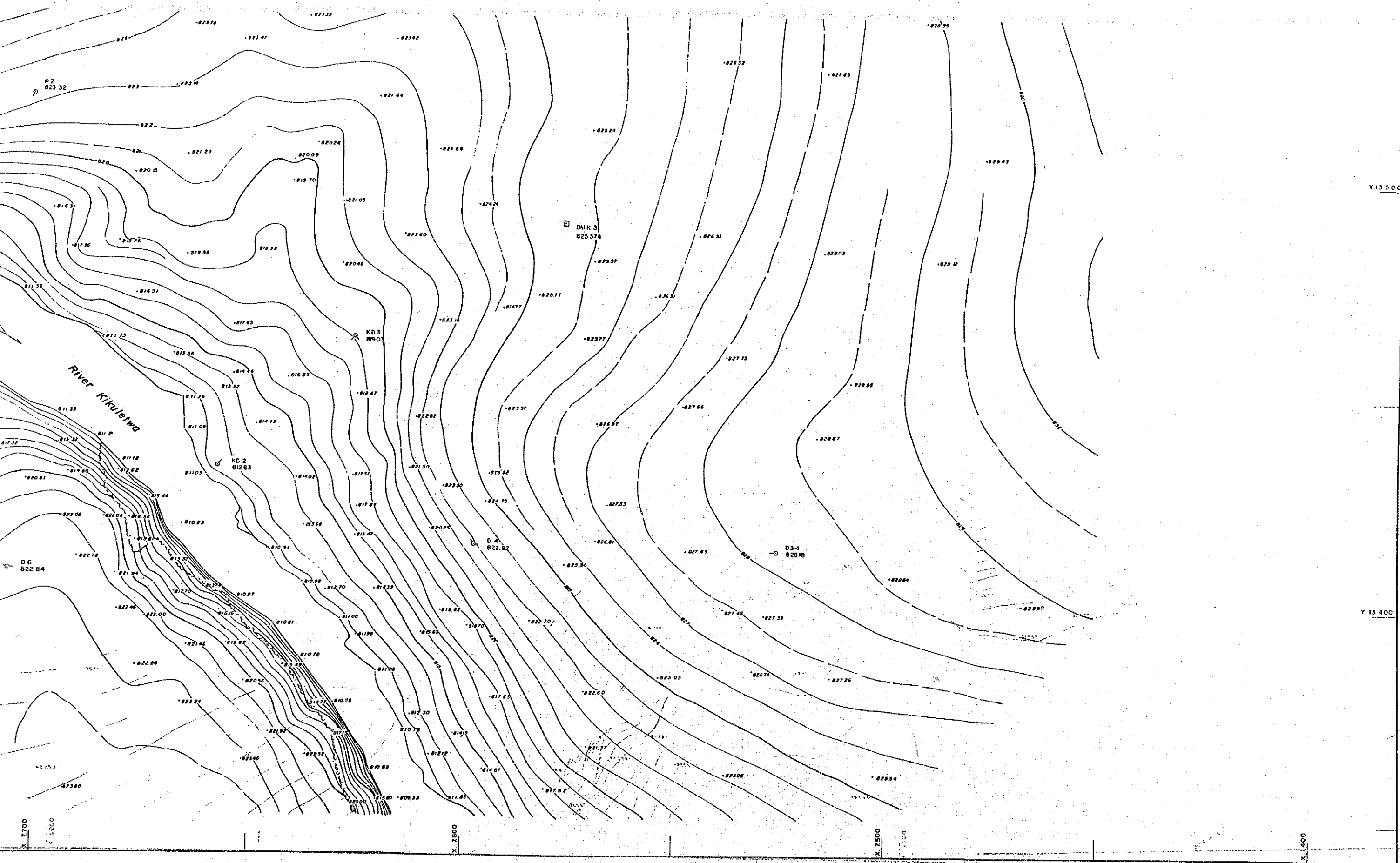
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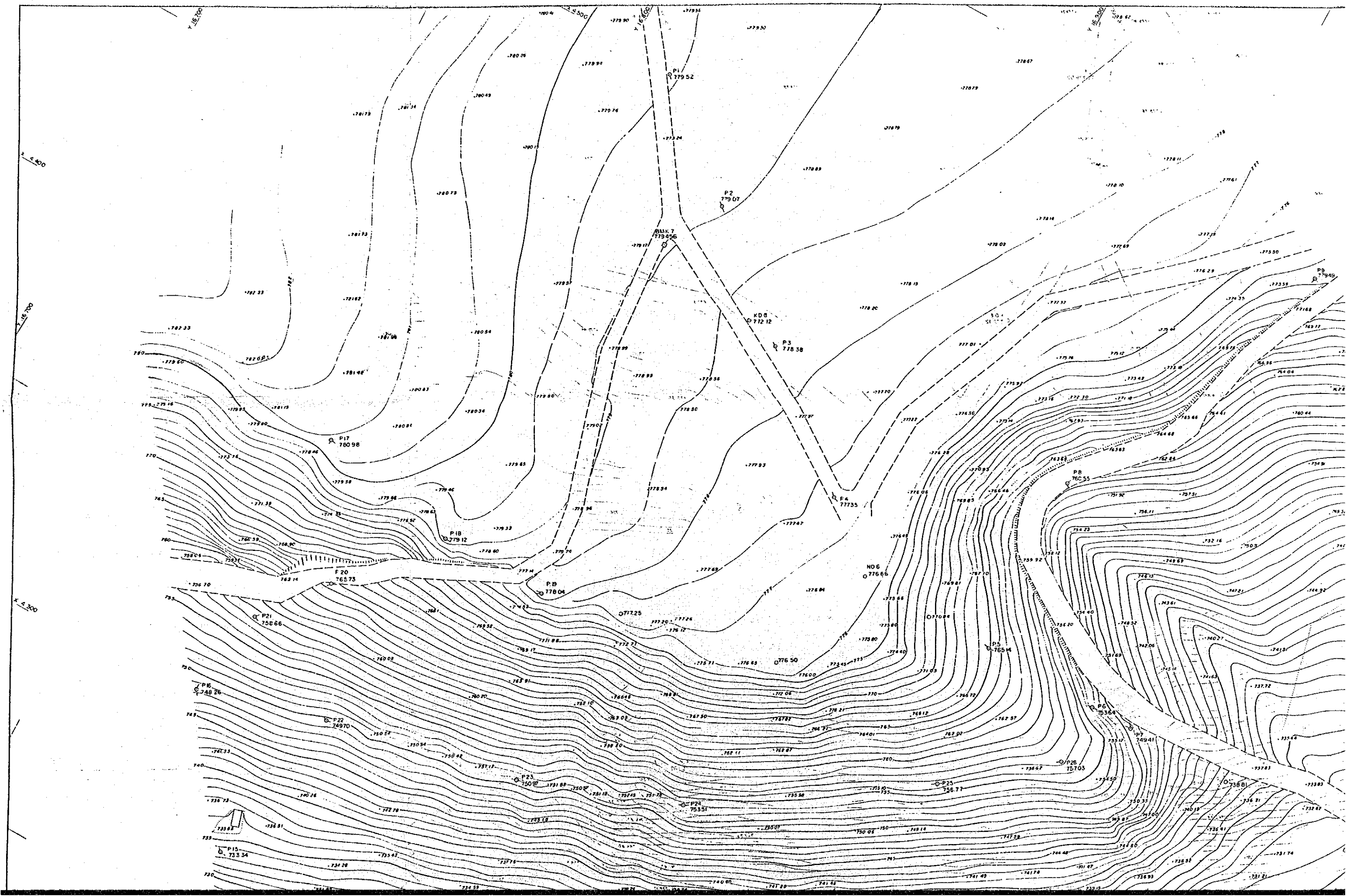
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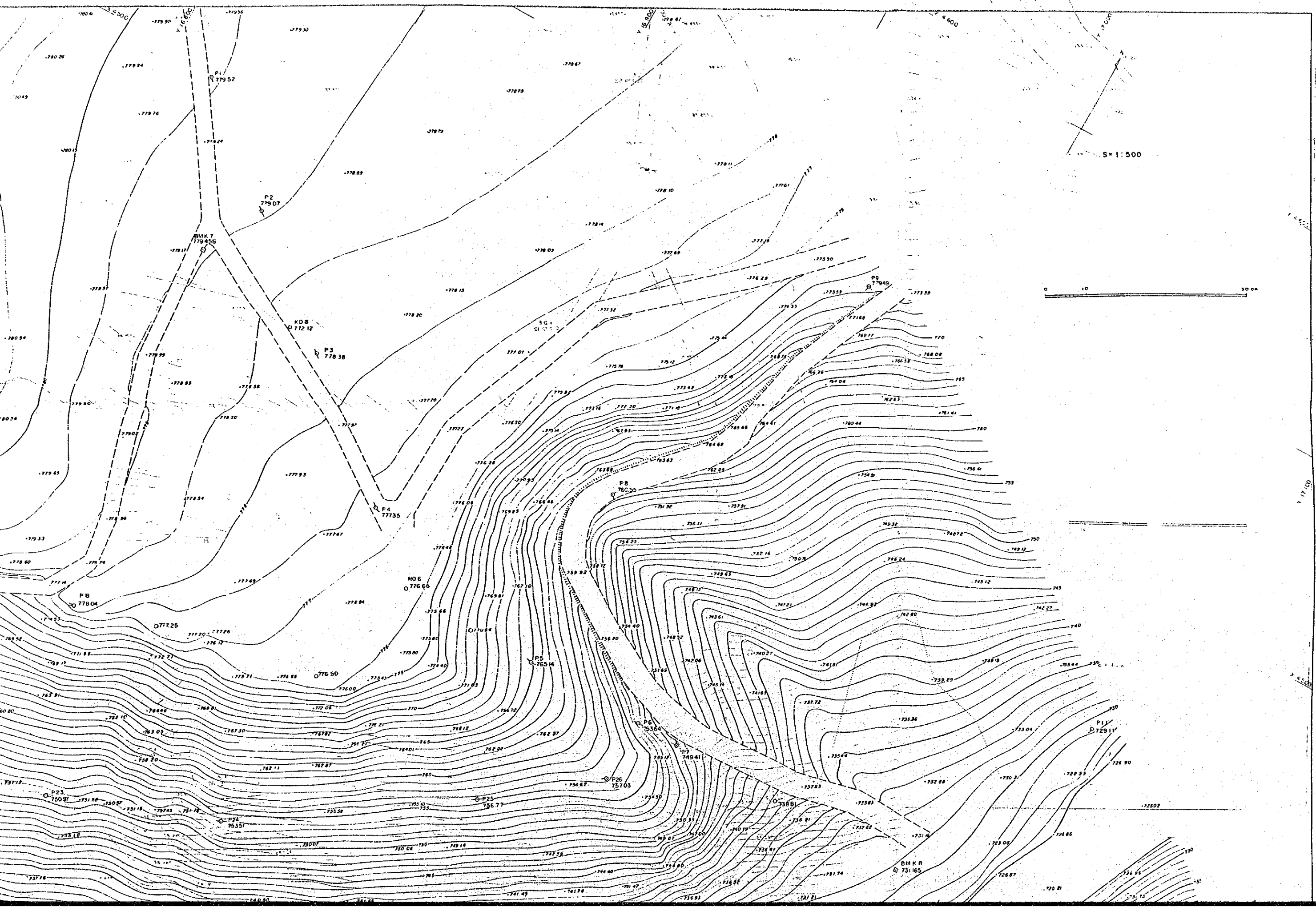
X 7900

X 7800









S = 1:500



1:1750