

+572

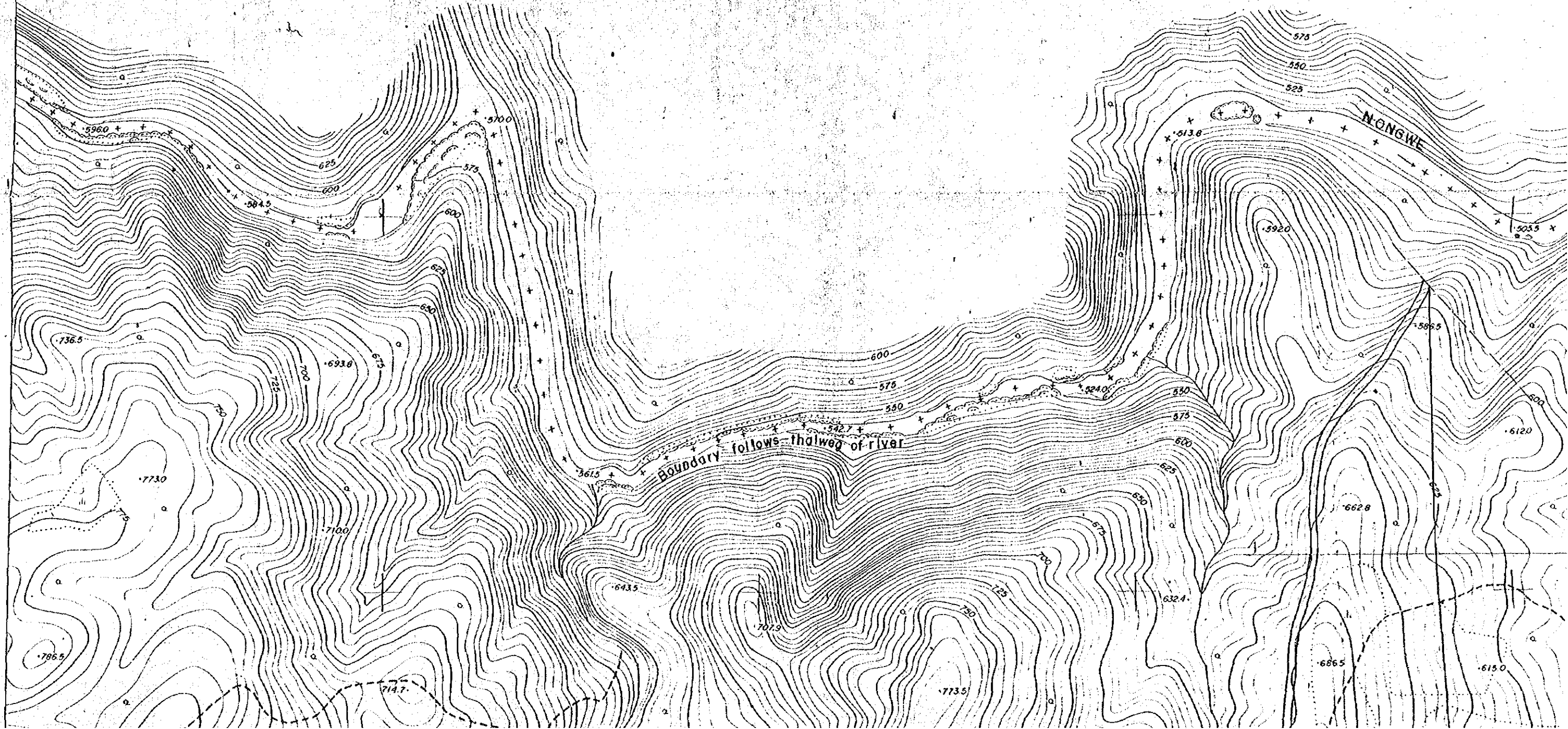
+573

+574

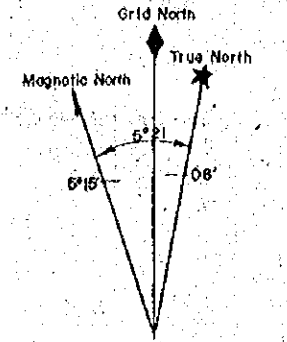
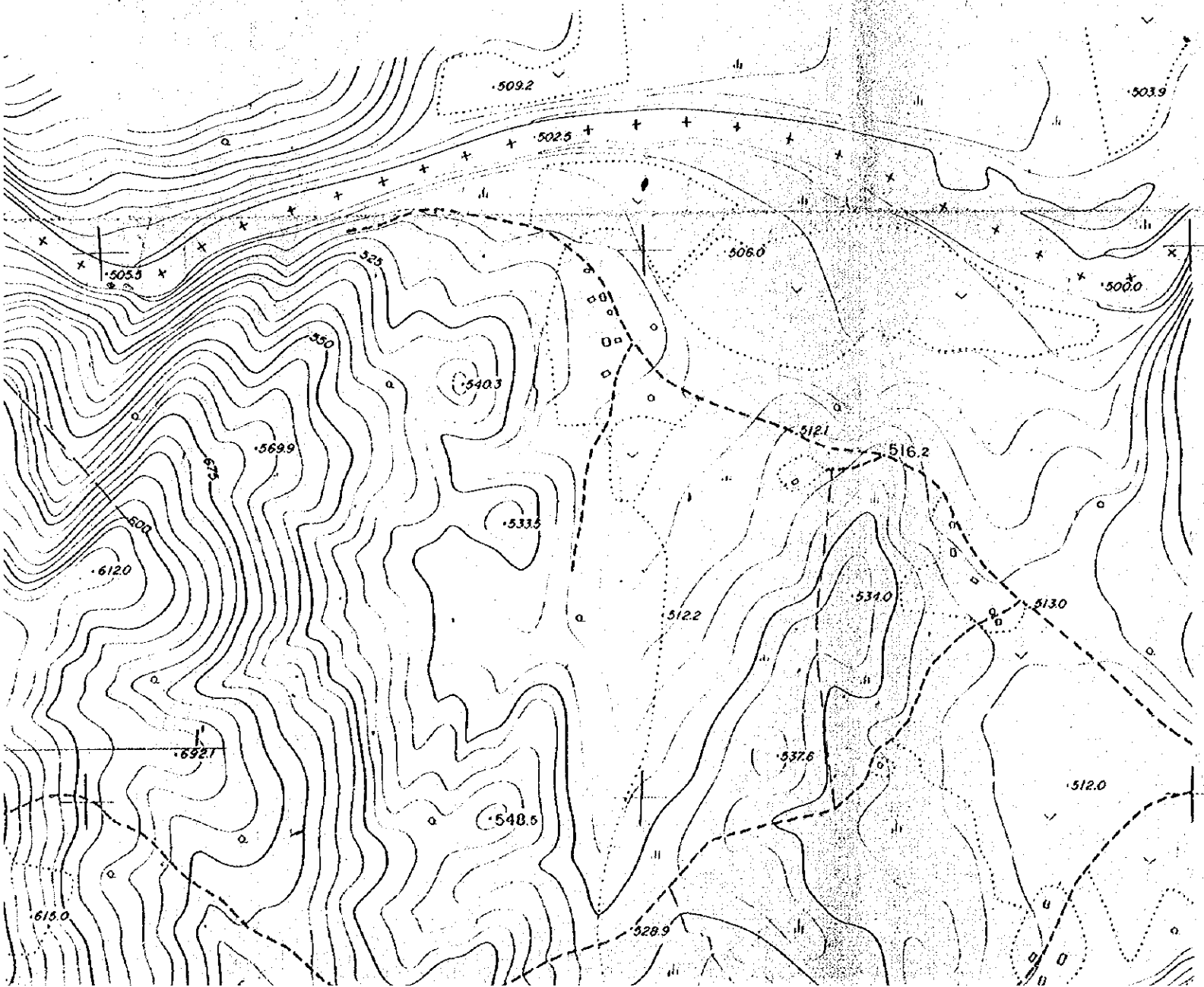
Fig No.8 REPUBLIC OF MALAWI
 NGANA COAL FIELD

SURFACE MINING

+8938



INING MAP



LEGEND

△ 128.9
• 161.3
□

Triangulation Point
Spot Height
Building

W
mm

Pond / Lake
Crumbling Cliff

Boundary follows thalweg of river

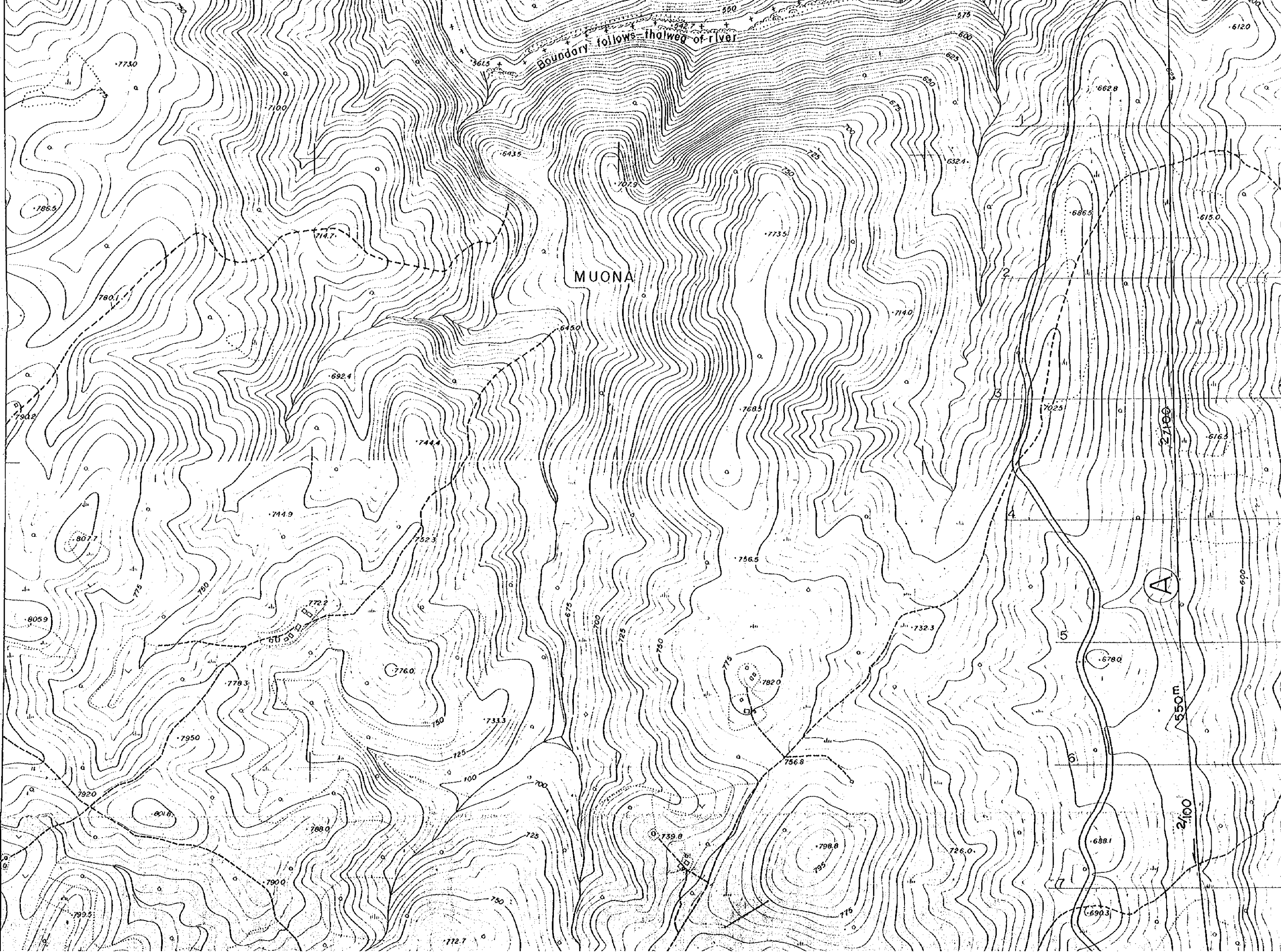
MUONA

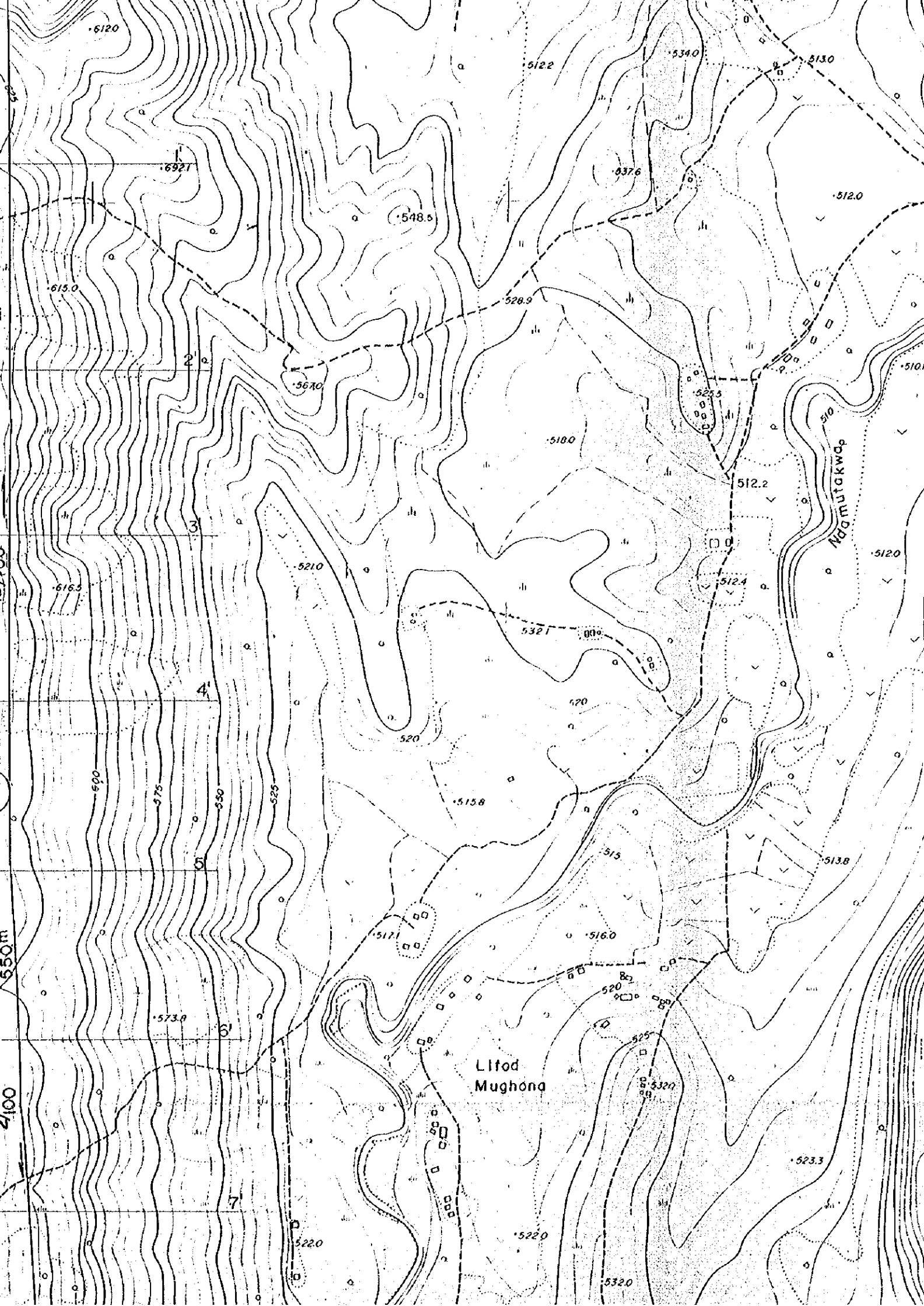
+8937

A

550m

2100



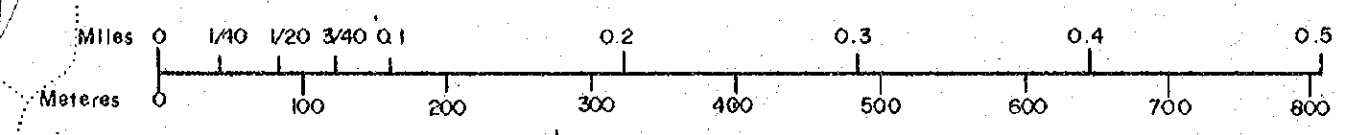


- △ 128.9 Triangulation Point
- 161.3 Spot Height
- Building
- ↔ Main Road
- District Road
- - - Track / Pass
- ▬ Slopes (Cut)
- ▬▬▬ Slopes (Bank)
- ⋯ Vegetation Boundary
- ~ River
- ~ Tributary
- ⌒ Sand Dune

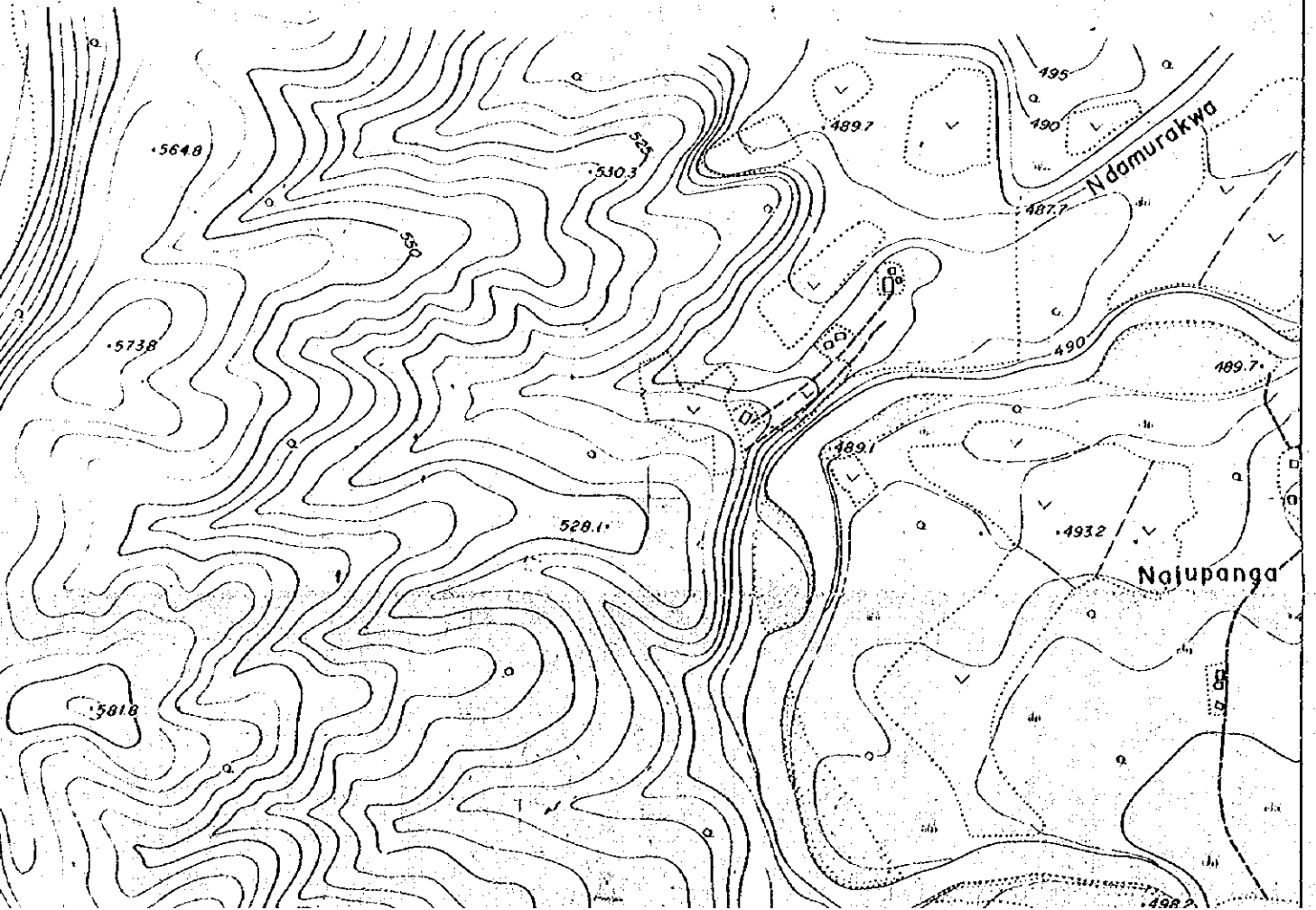
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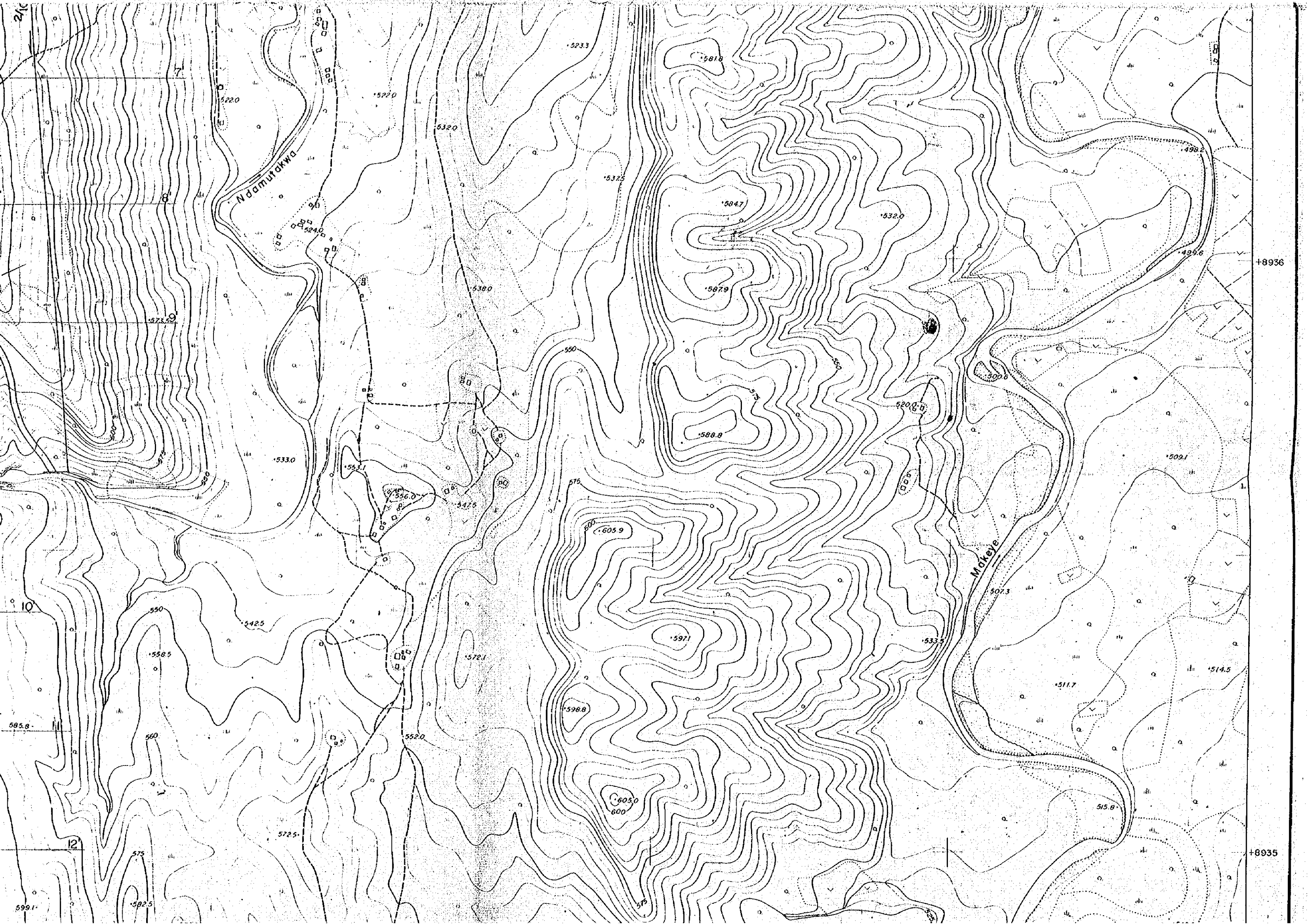
- ⊖ Pond / Lake
- ⌒ Crumbling Cliff
- ≡ Bridge
- ∨ ∨ Cultivation
- ▬▬ Grossland
- ▬▬ Scrub
- ○ Forest
- (15m) Intermediate Contour Line
- - - (2.5m) Supplementary Interval Contour
- (25m) Index Contour

SCALE 1:5,000



+ 8937





Ndamutakwa

Makeye

523.3

581.8

522.0

522.0

532.0

532.5

584.7

532.0

492.2

495.6

+8936

573.9

587.9

538.0

550

588.8

520.0

500.6

509.1

553.1

547.6

575

600

605.9

597.1

533.5

507.3

514.5

542.5

558.5

572.1

598.8

511.7

585.8

560

552.0

605.0

600

515.8

+8935

12

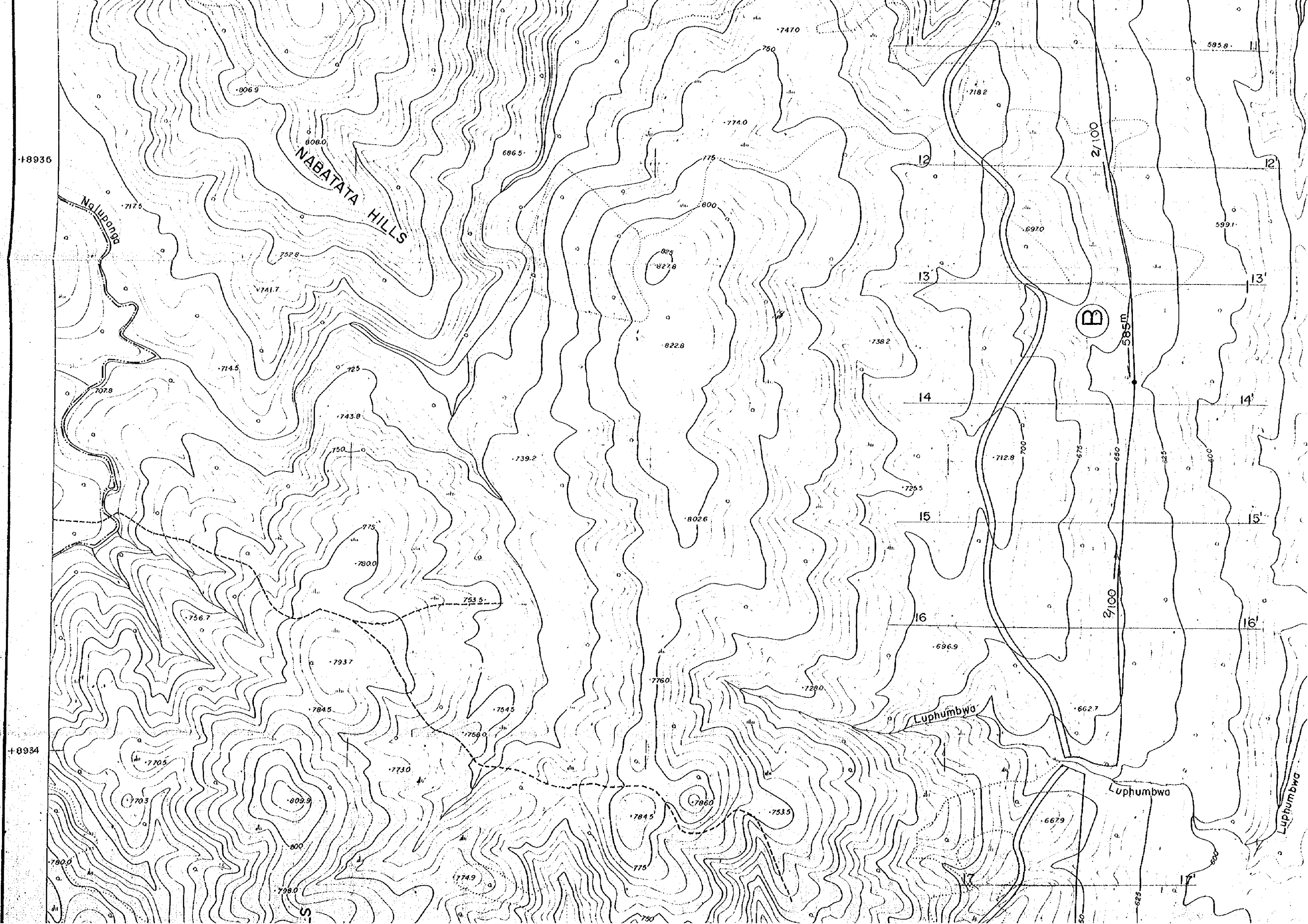
575

572.5

599.1

582.5

575



18936

18934

NABATATA HILLS

Lupumbwa

Lupumbwa

Lupumbwa

B

585m

12

13

14

15

16

12

13

14

15

16

2100

2100

7470

774.0

775

800

825

822.8

802.6

776.0

728.0

718.2

697.0

585.8

599.1

738.2

725.5

712.8

696.9

662.7

806.9

808.0

686.5

752.8

741.7

714.5

725

743.8

750

739.2

775

780.0

753.5

756.7

793.7

784.5

754.5

758.0

770.5

773.0

770.3

809.9

800

798.0

774.9

784.5

786.0

753.5

775

750

625

625

600

600

S



LUPUMBA HILLS

Lupumbwa

Lupumbwa

12

13

14

15

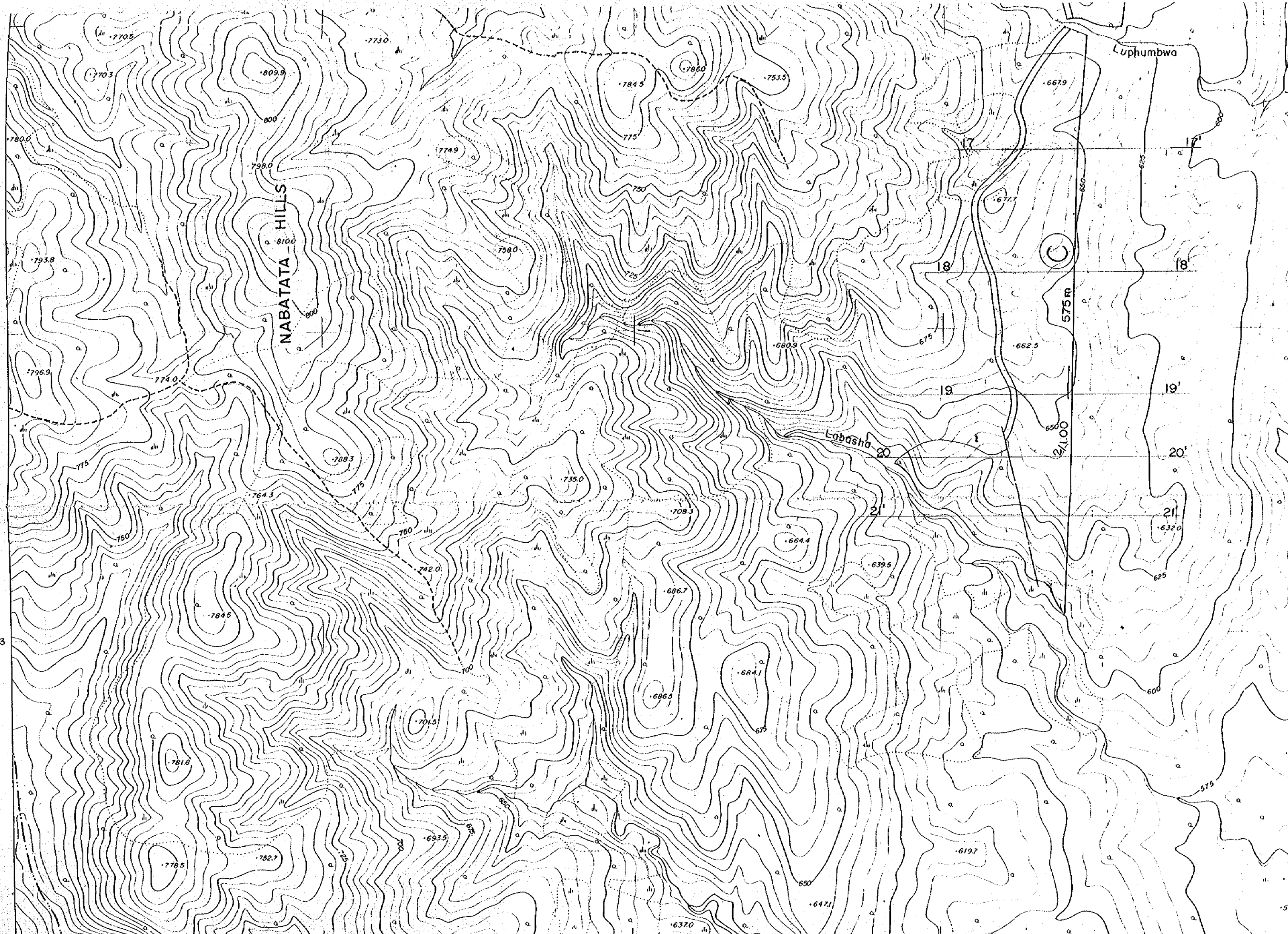
16

18935

18934

+8934

+8933





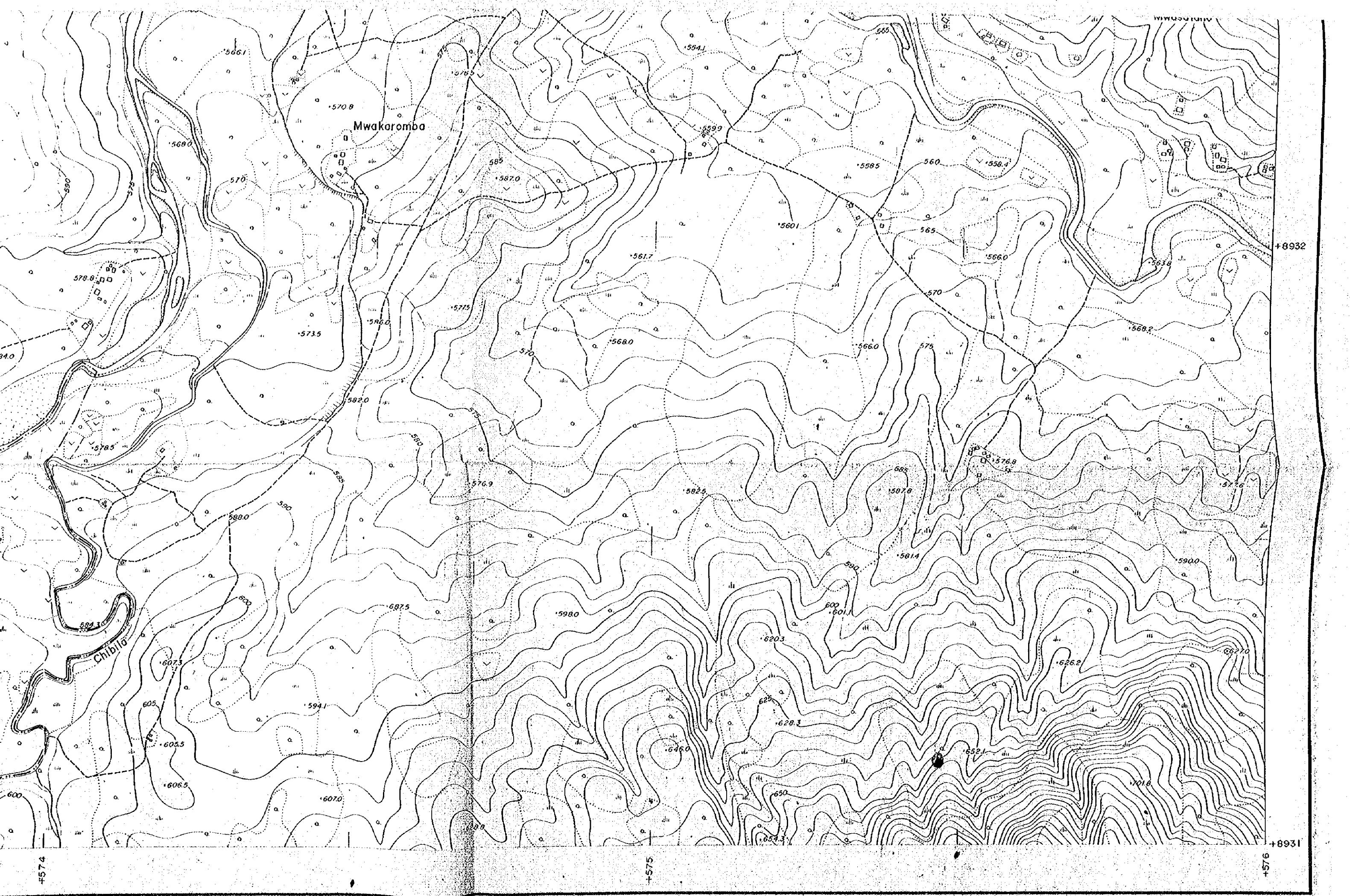
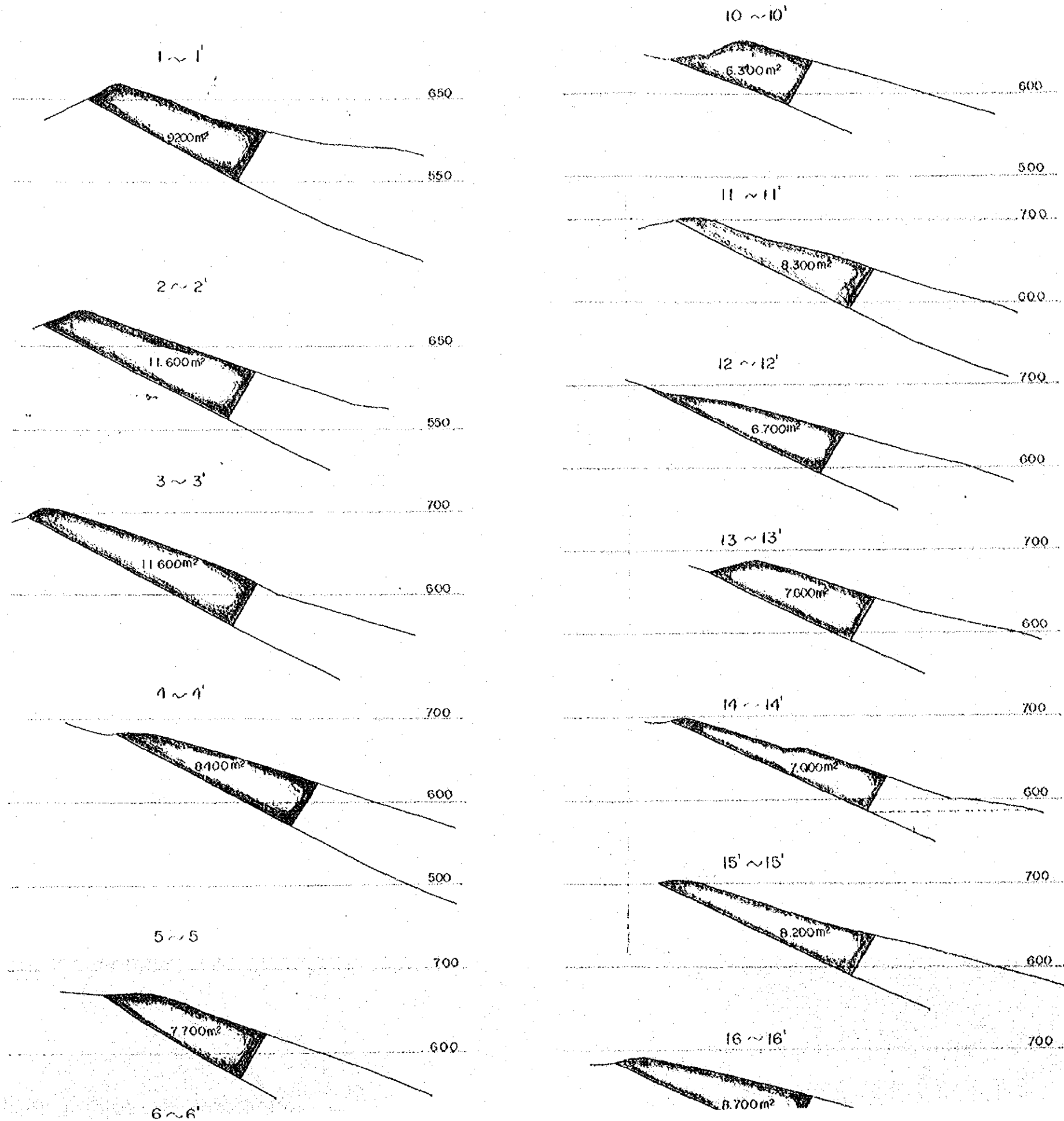


Fig No.9



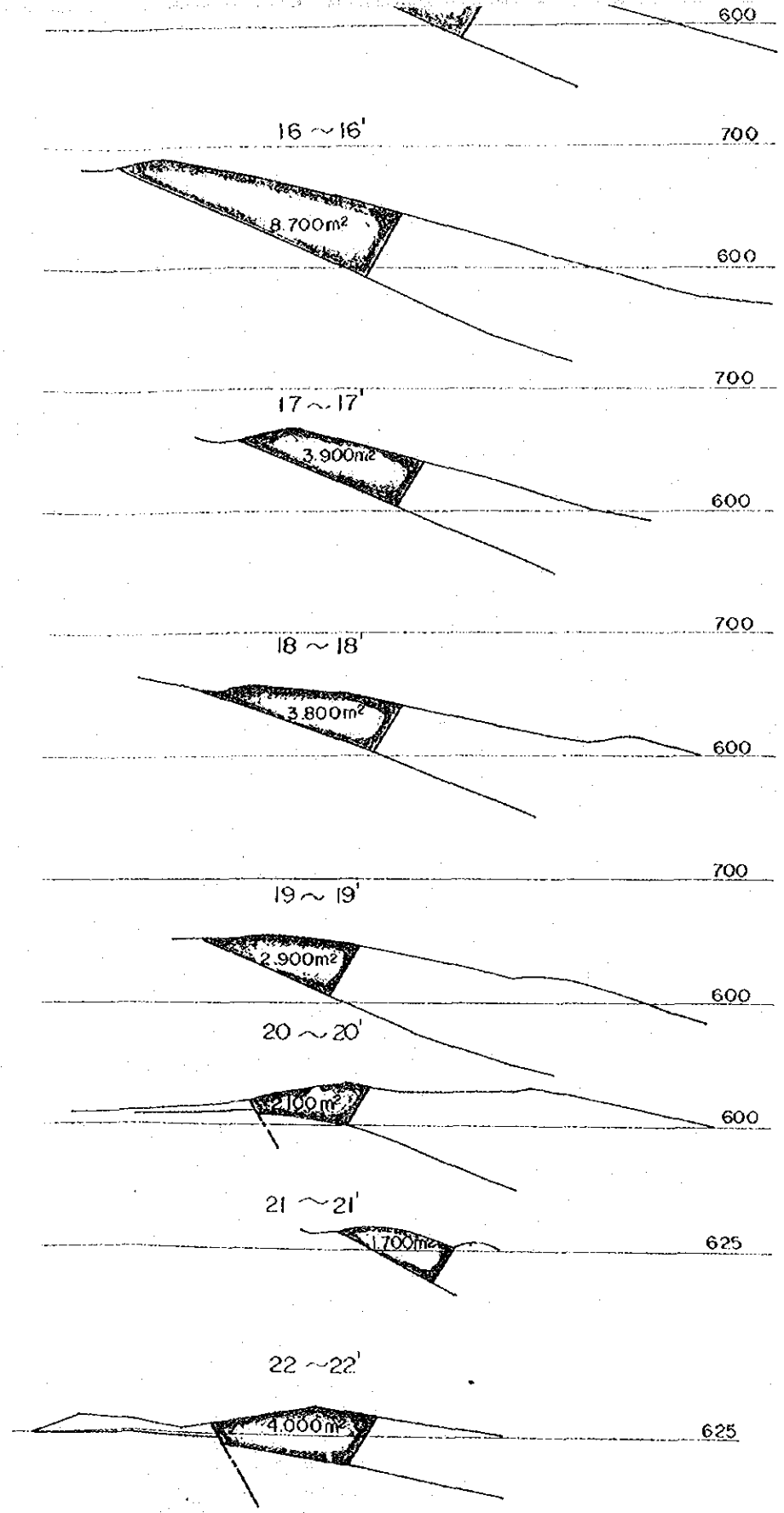
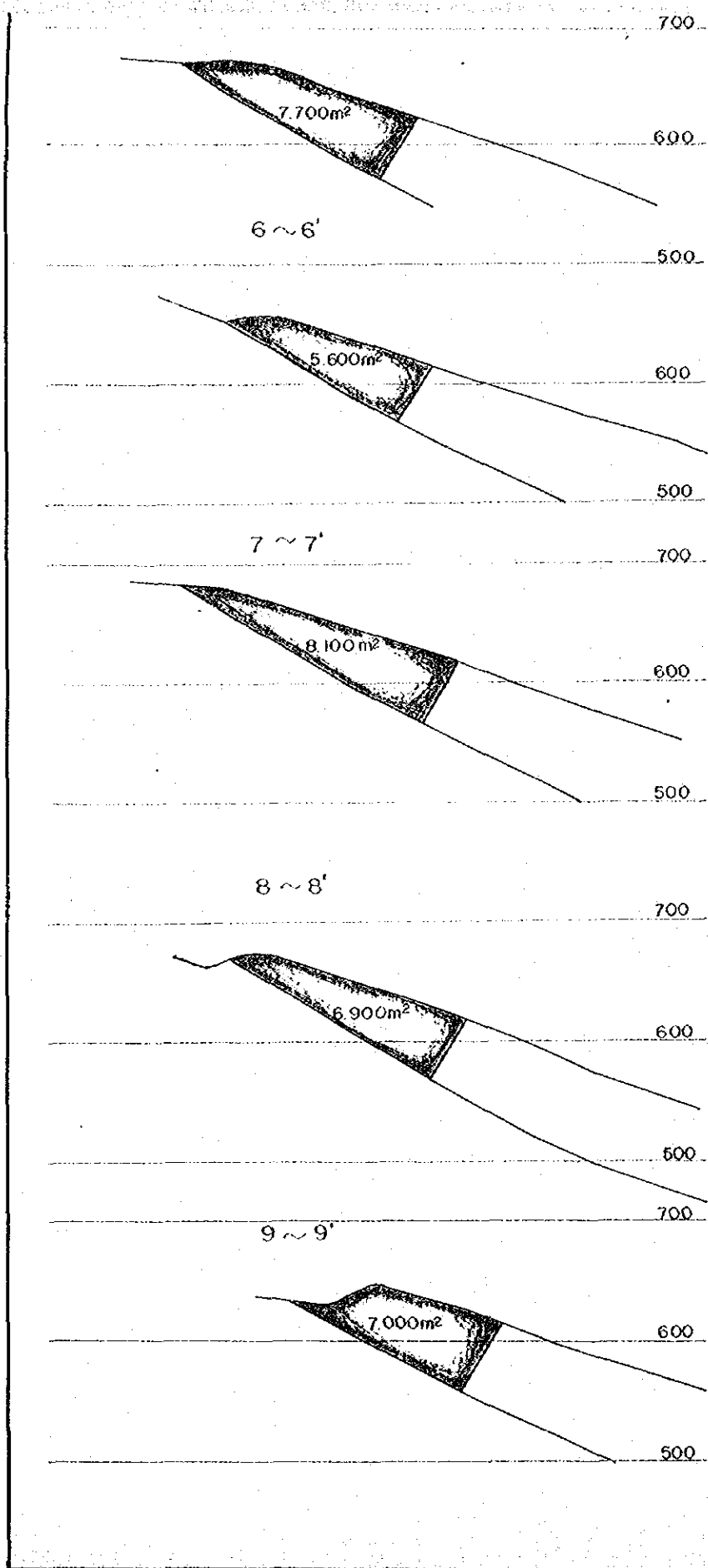
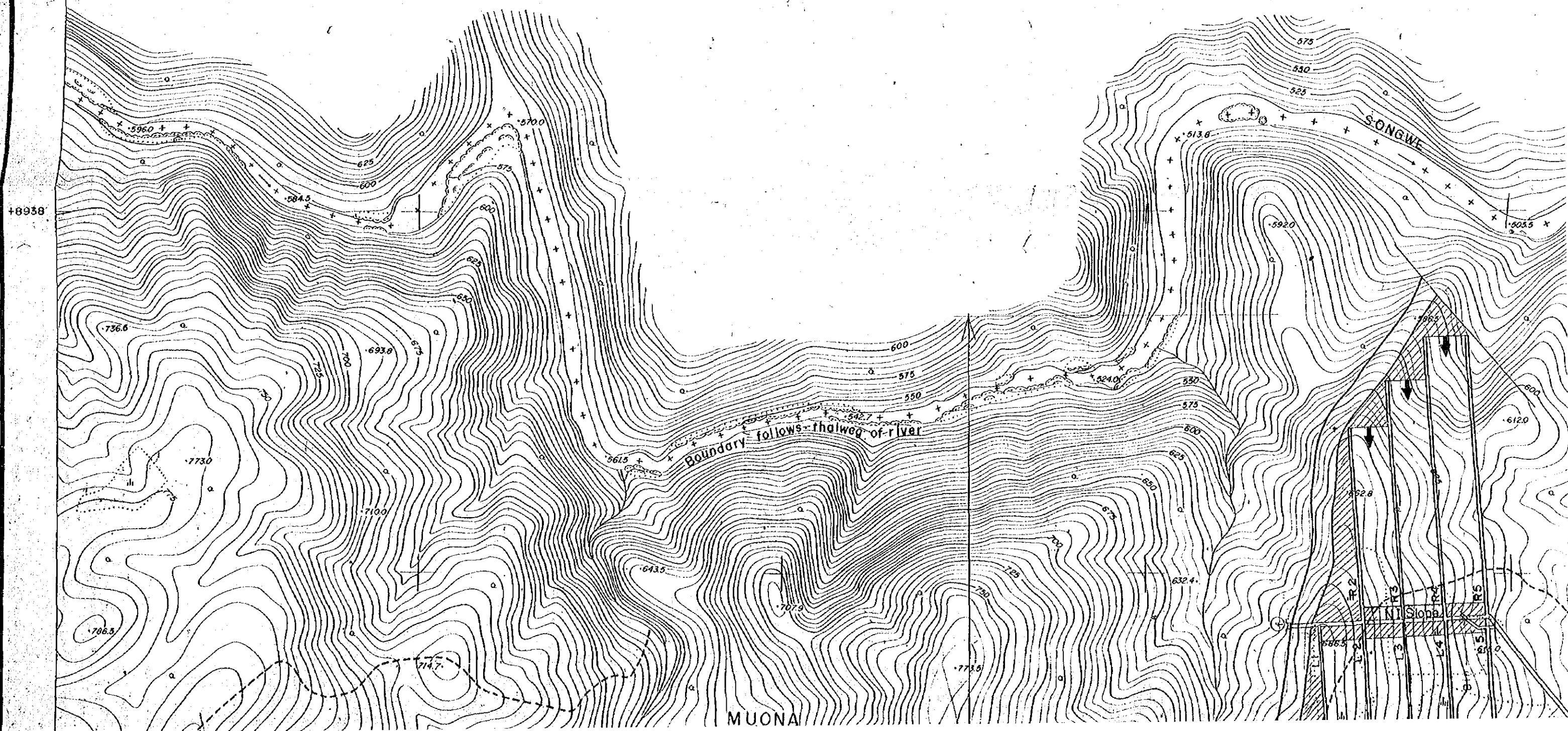
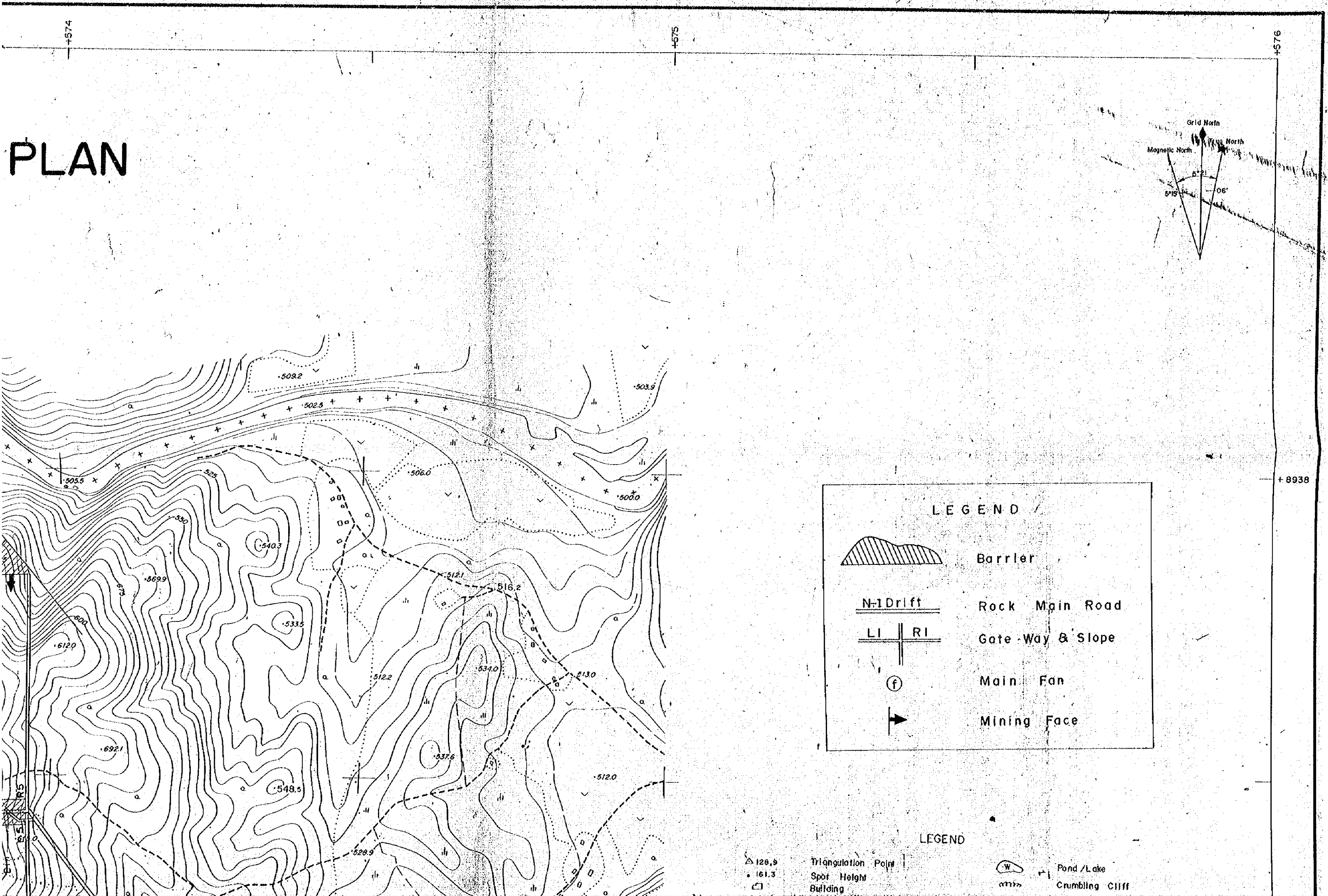


Fig No.10 REPUBLIC OF MALAWI
NGANA COAL FIELD






MINING PLAN








PLAN



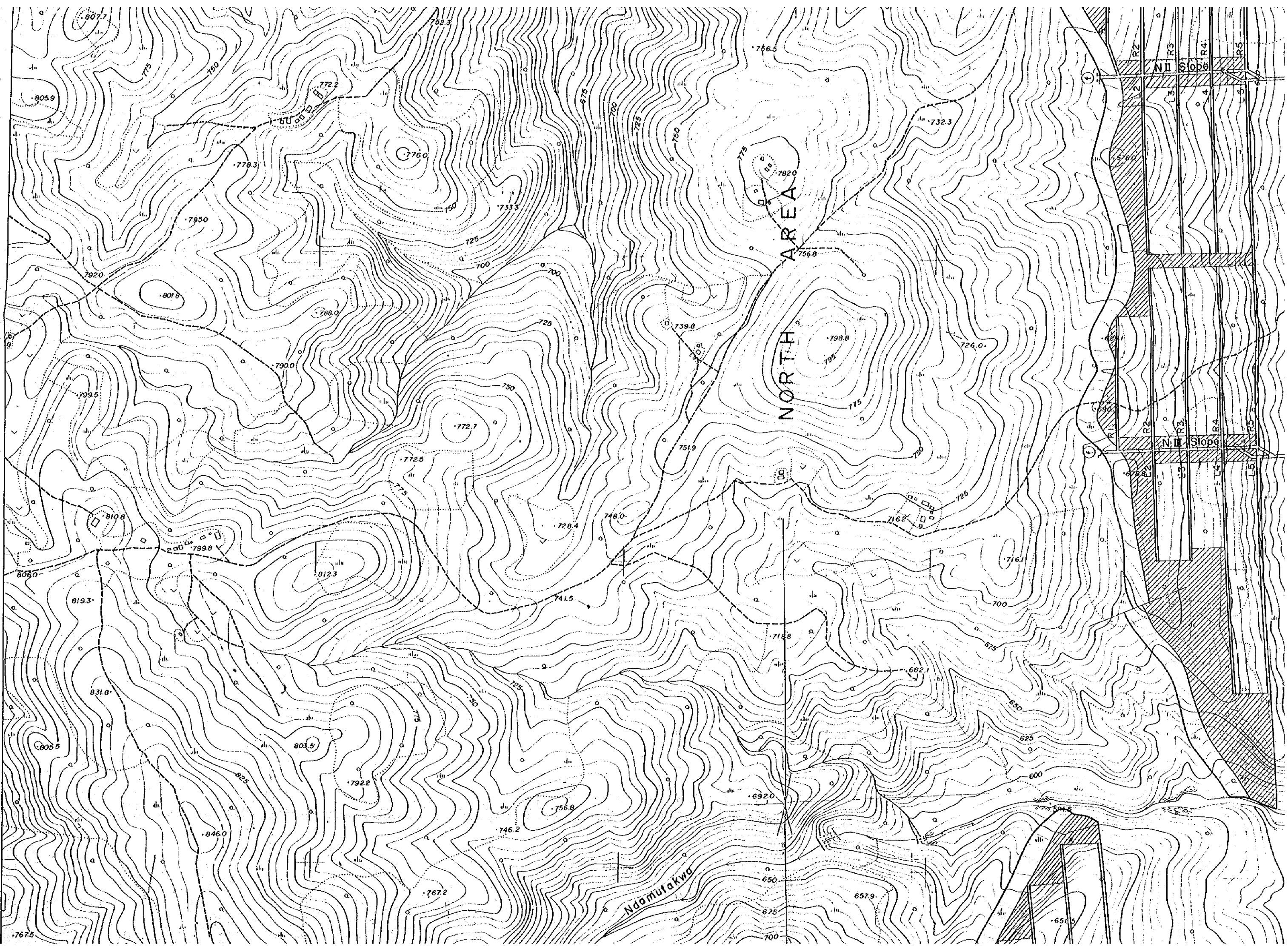
LEGEND

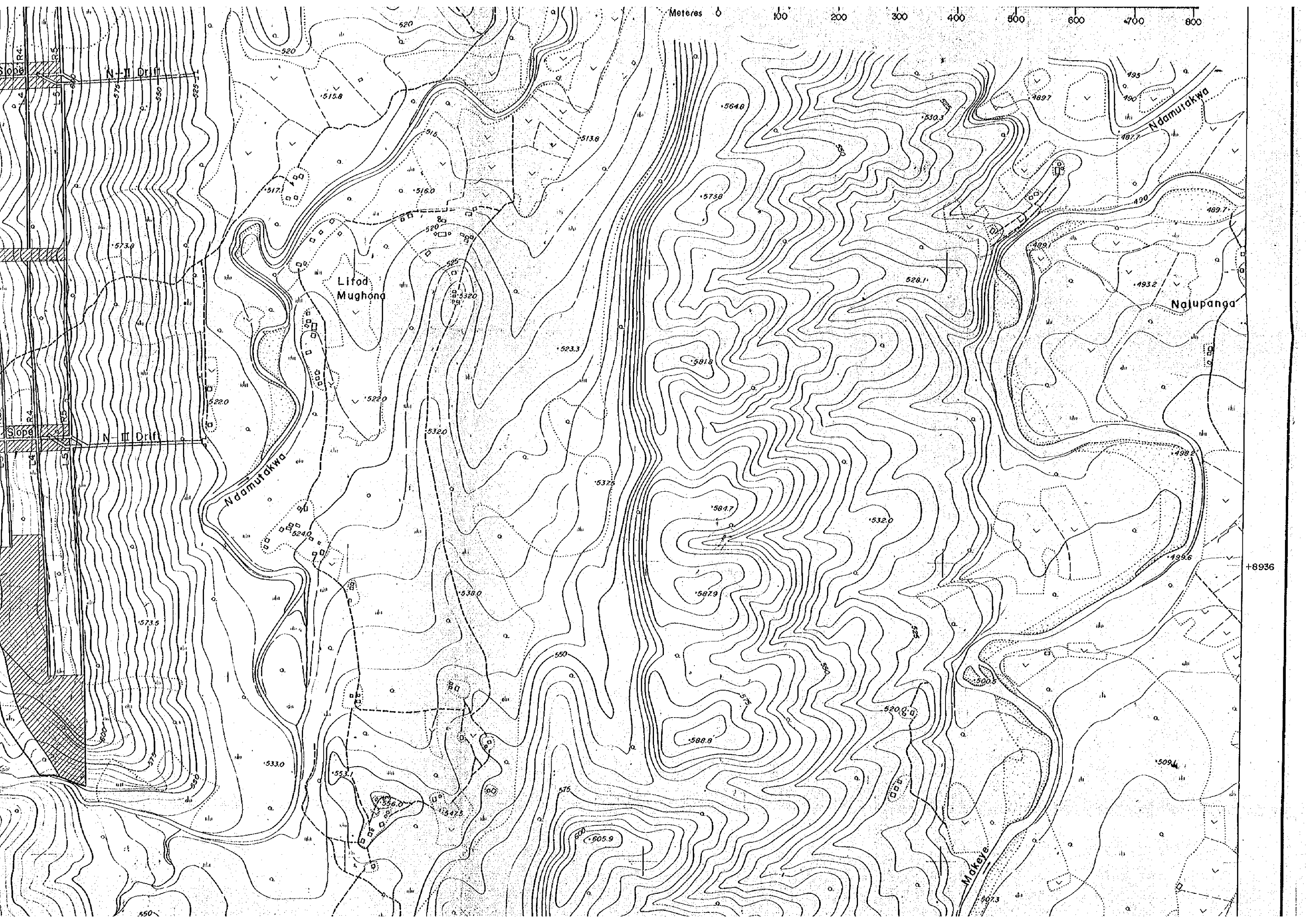
	Barrier
	Rock Main Road
	Gate Way & Slope
	Main Fan
	Mining Face

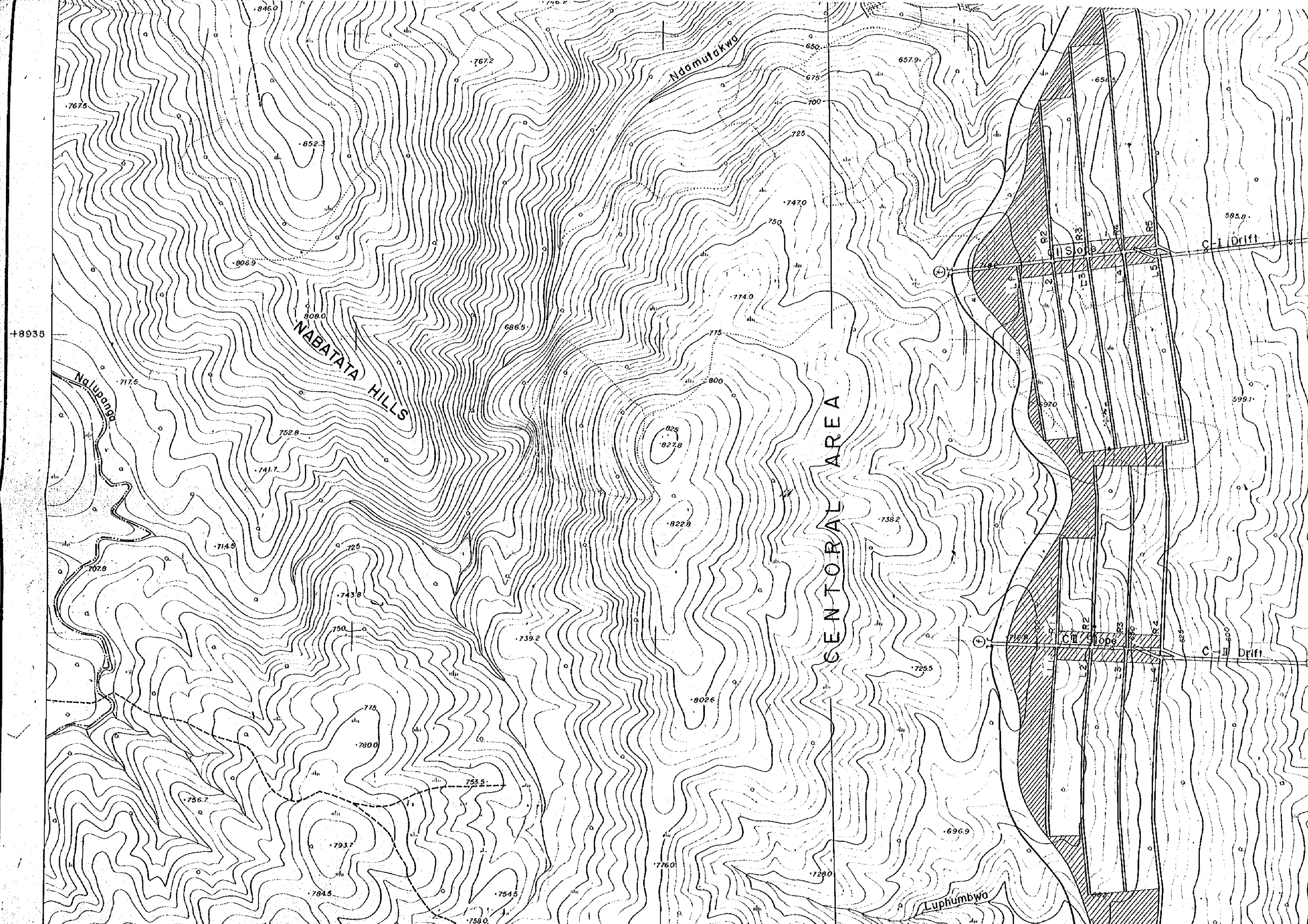
LEGEND

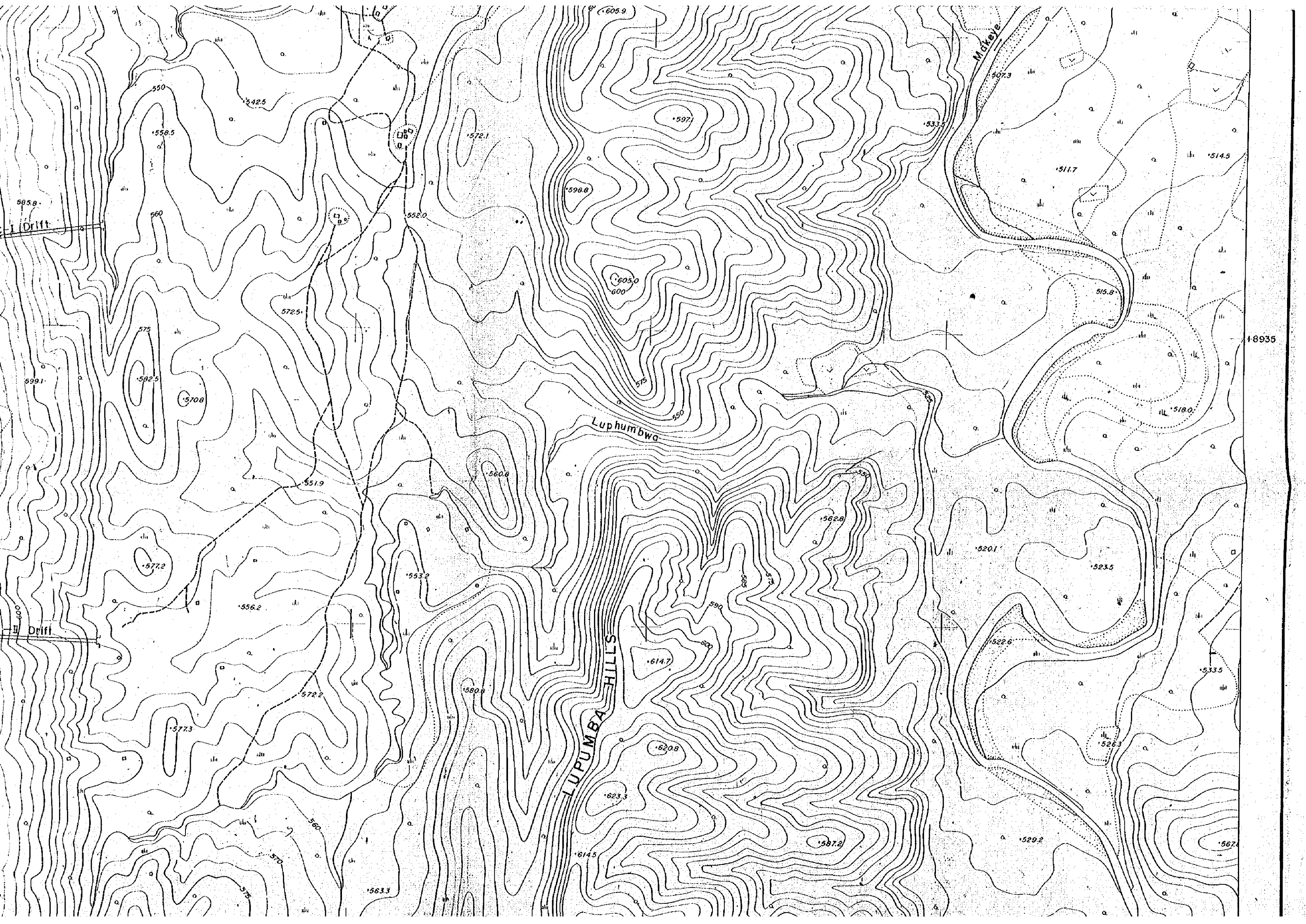
	128.9	Triangulation Point		Pond/Lake
	161.3	Spot Height		Crumbling Cliff
		Building		

18936



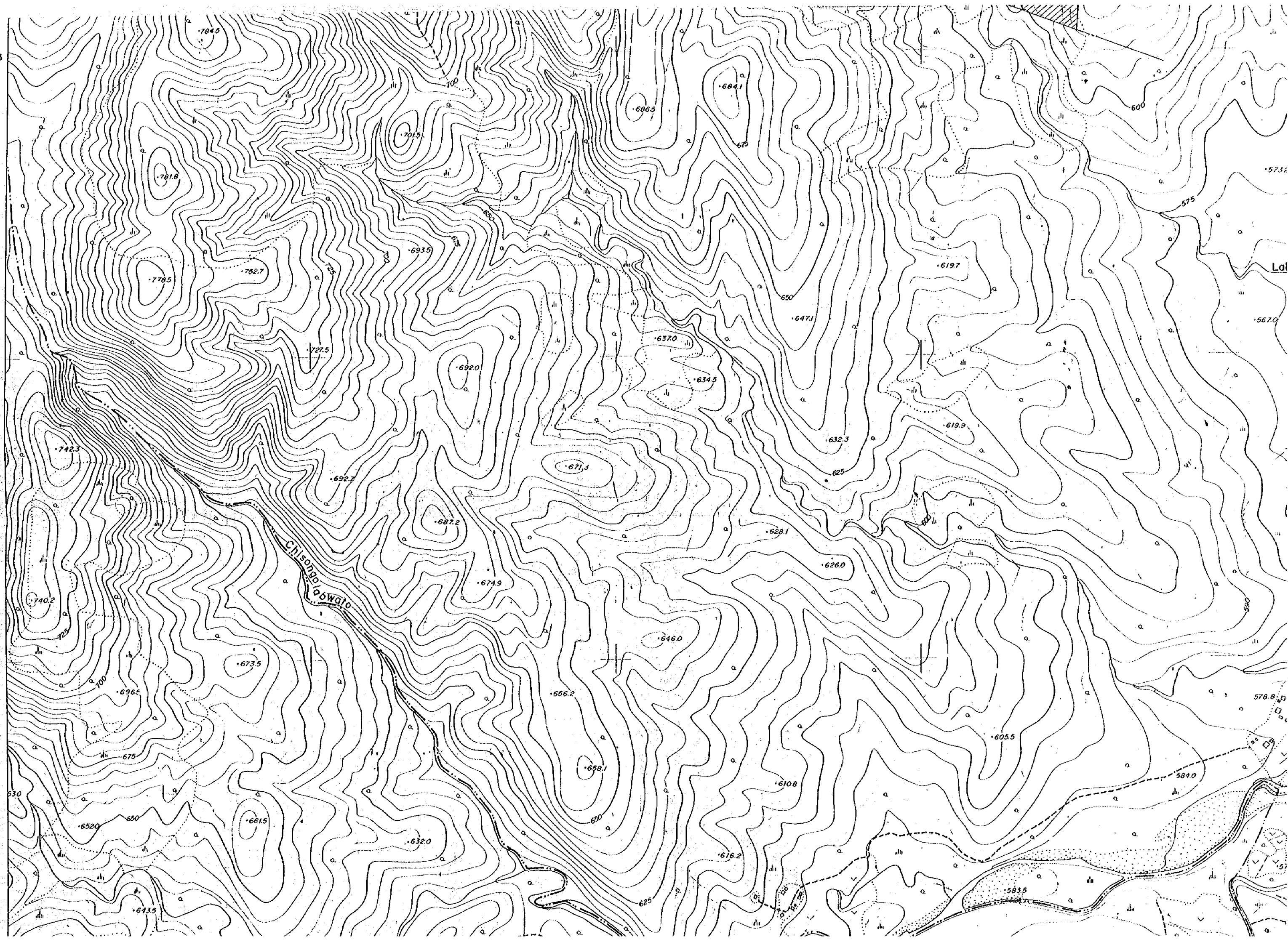


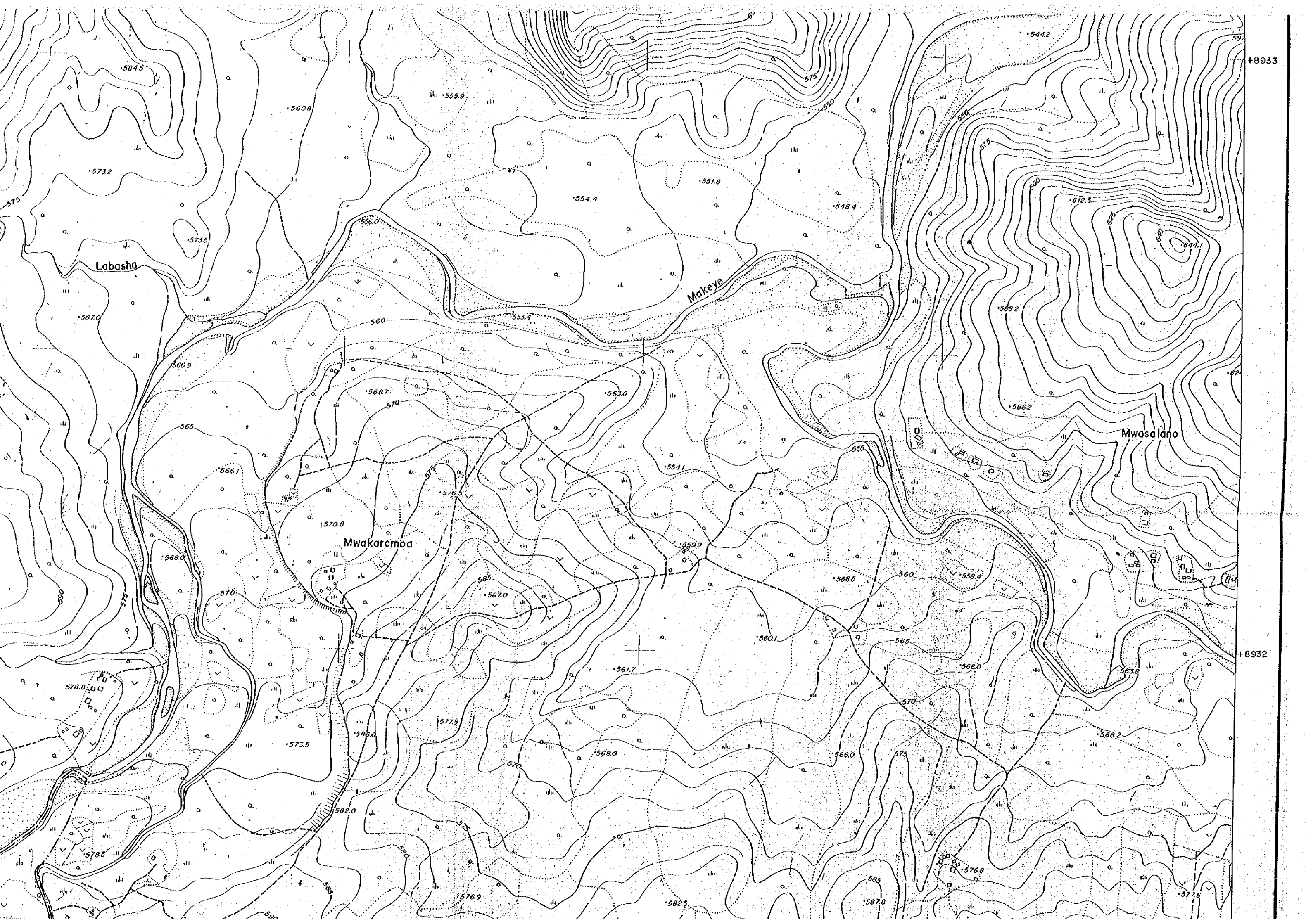


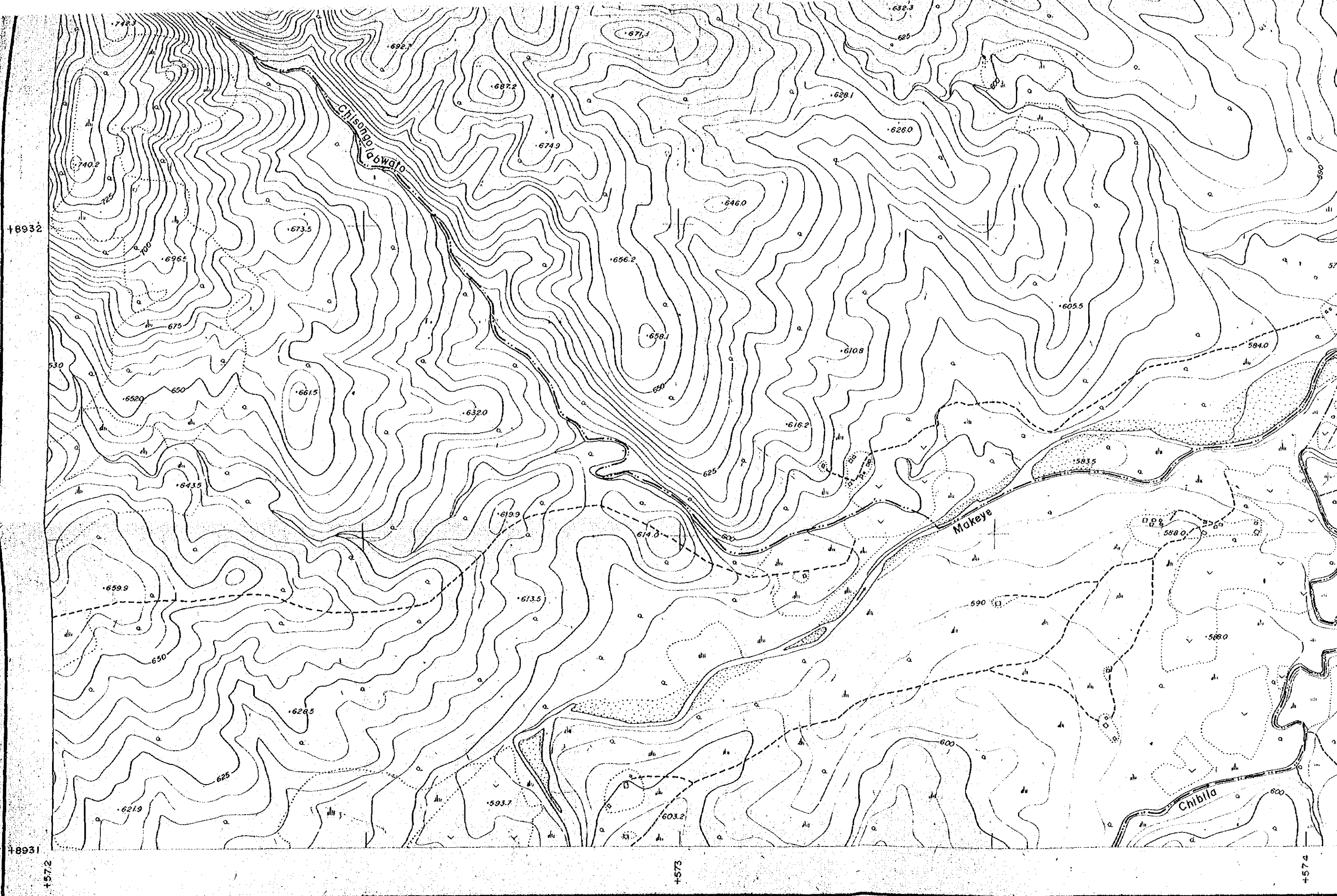


+8933

+8932







+8932

+8931

+572

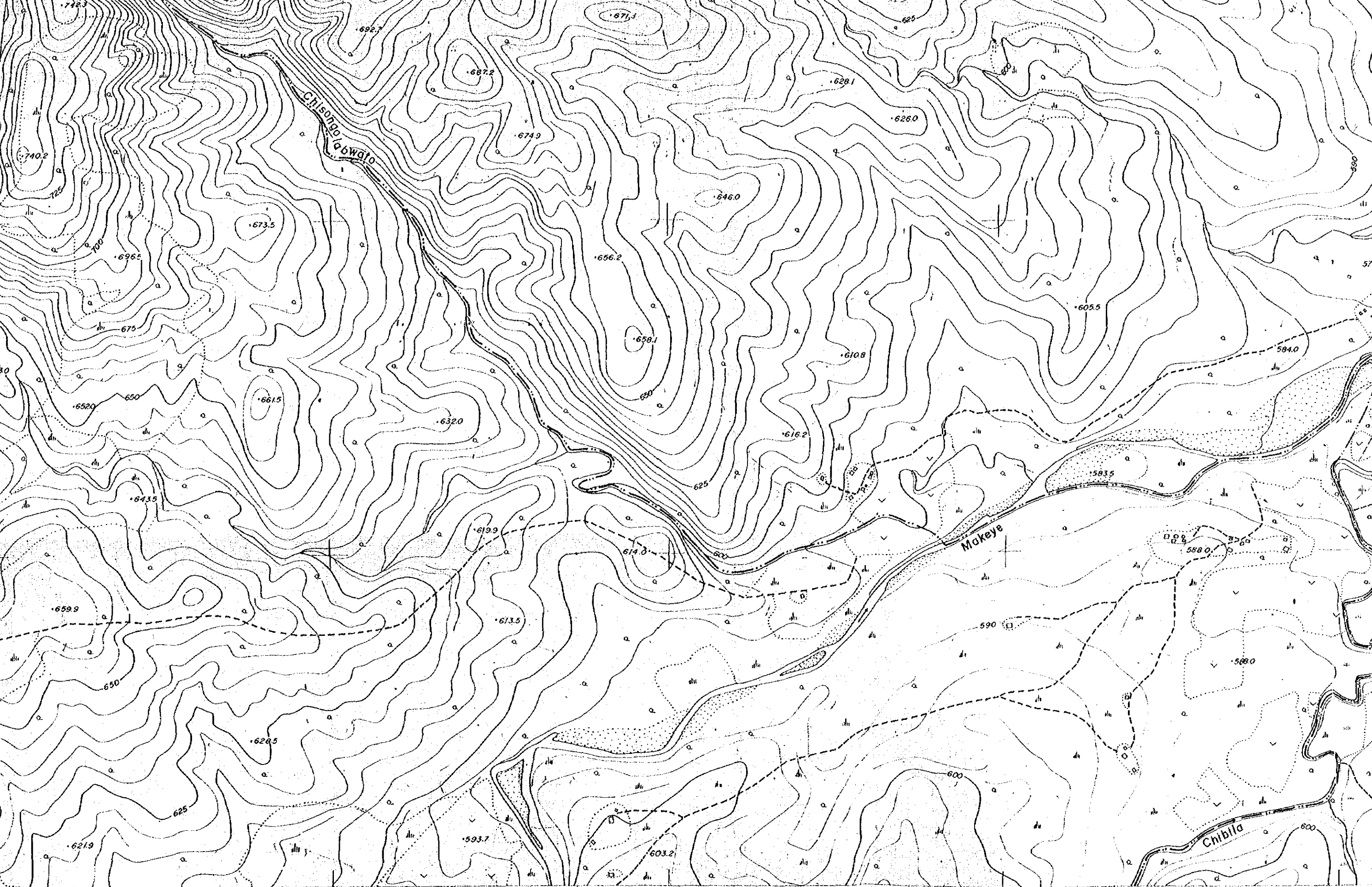
+573

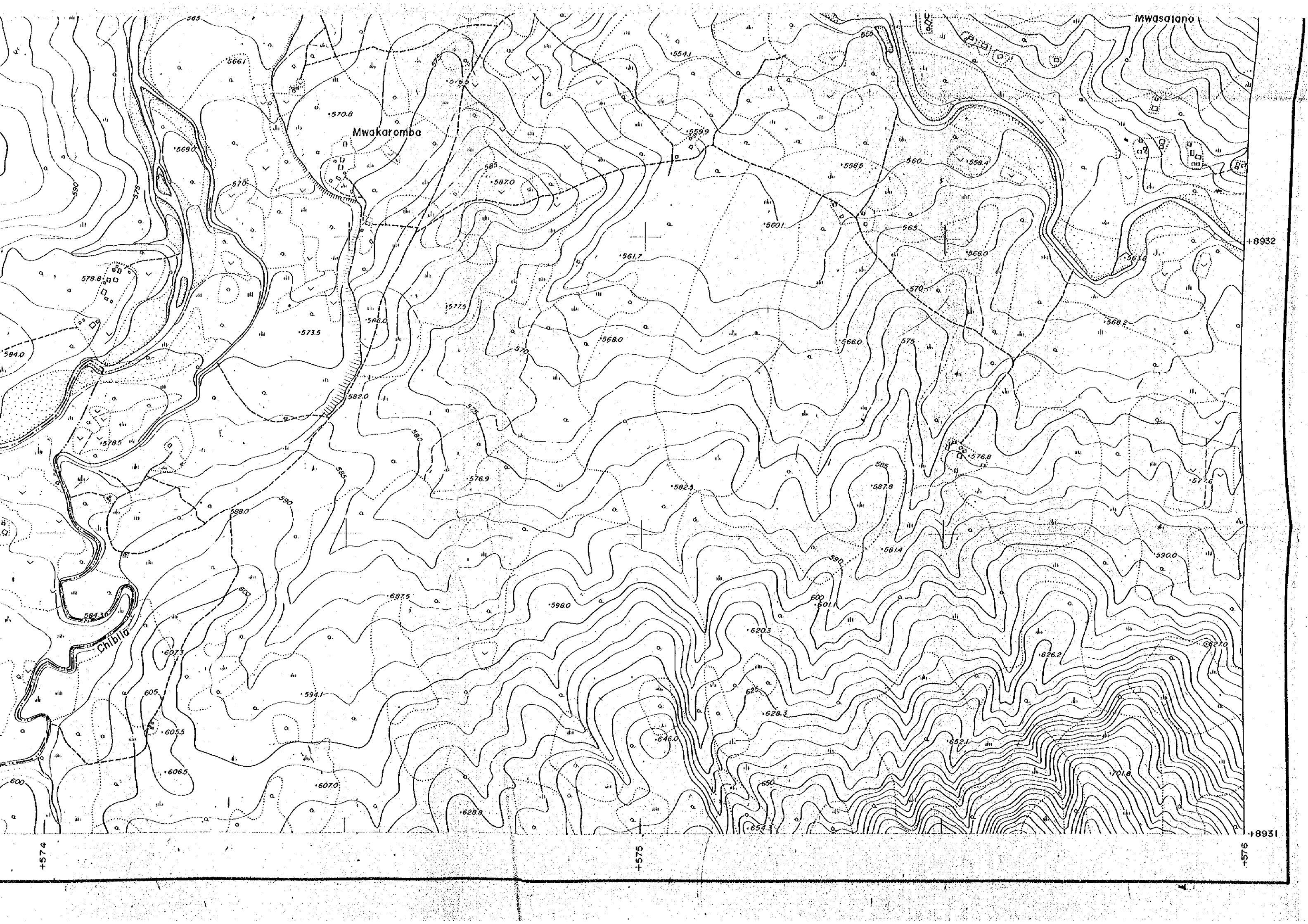
+574

Chisungu
Chisungu
Chisungu

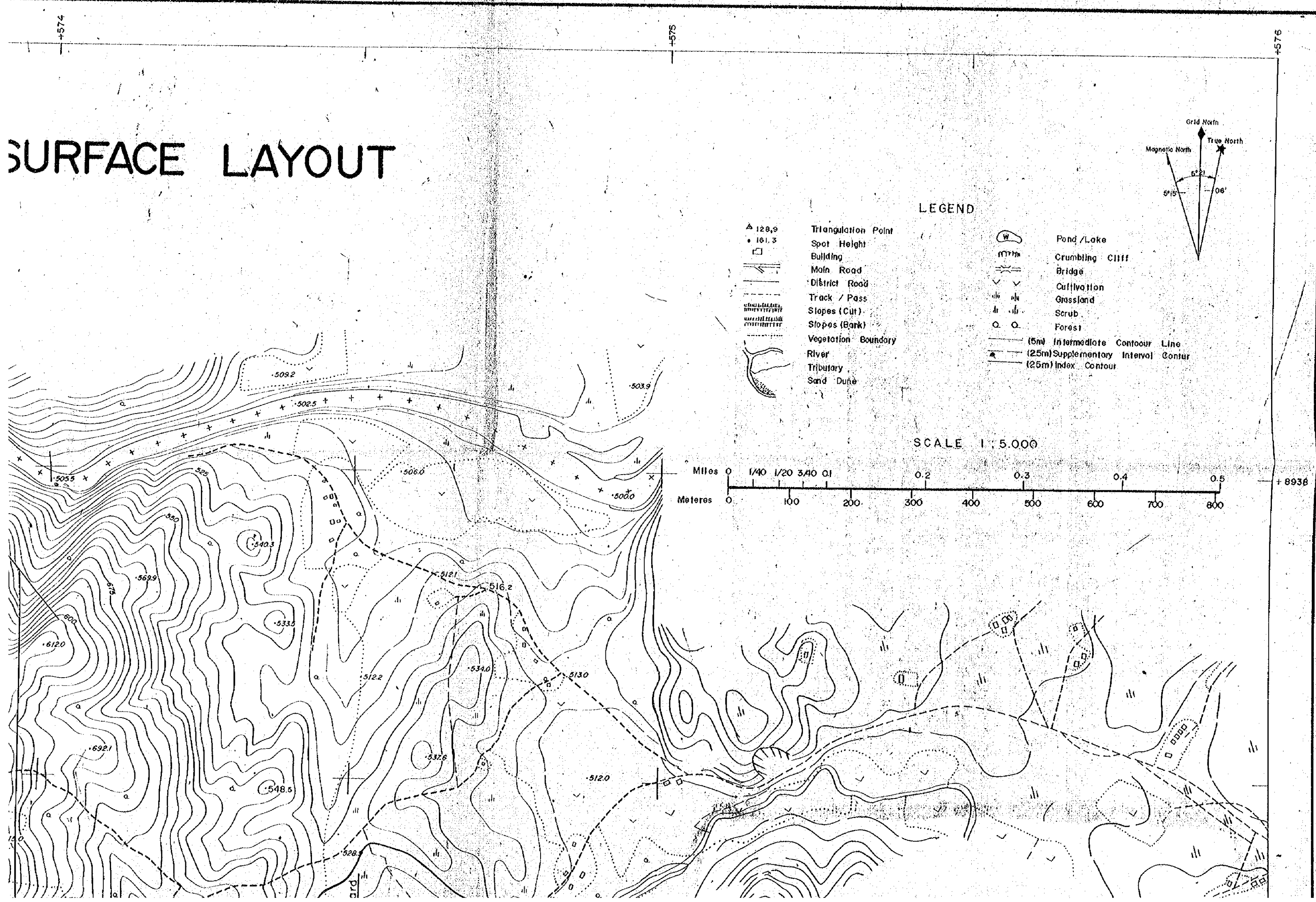
Makeye

Chibila



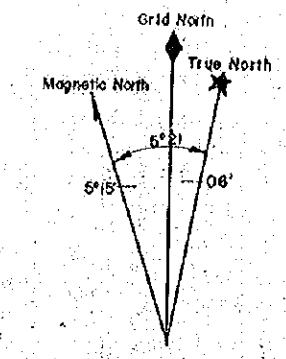


SURFACE LAYOUT

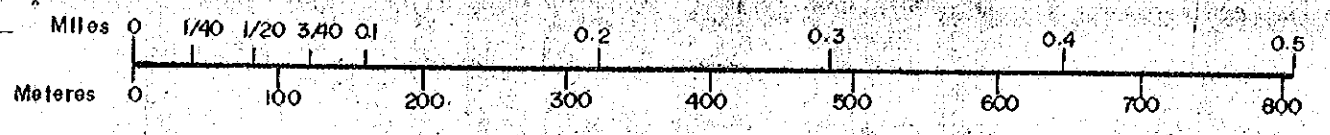


LEGEND

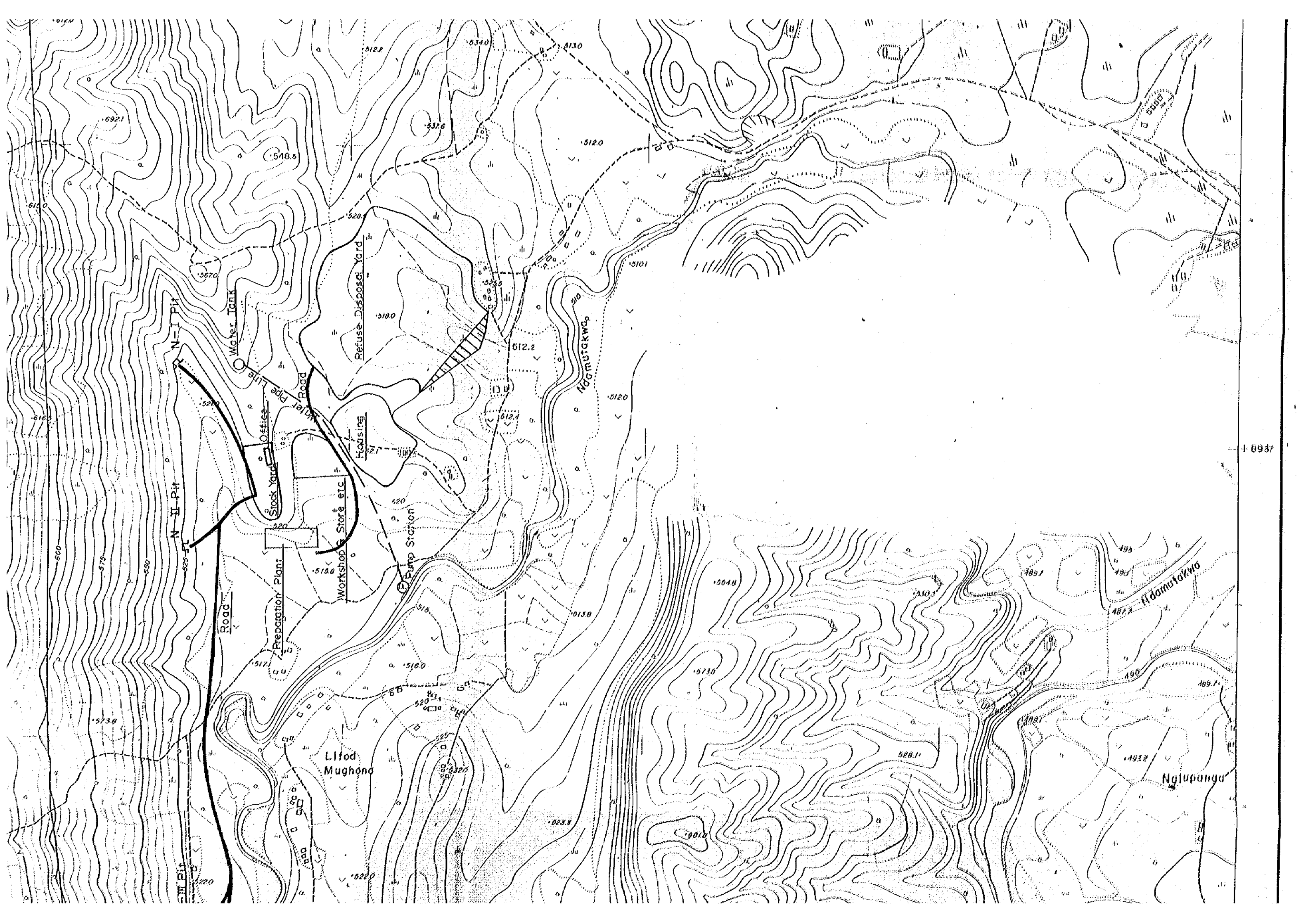
- | | | | |
|---------|---------------------|------|--------------------------------------|
| ▲ 128.9 | Triangulation Point | ○ | Pond / Lake |
| • 161.3 | Spot Height | ▬▬▬▬ | Crumbling Cliff |
| □ | Building | ▬▬▬▬ | Bridge |
| ▬▬▬▬ | Main Road | ∨ ∨ | Cultivation |
| ▬▬▬▬ | District Road | | Grassland |
| ▬▬▬▬ | Track / Pass | | Scrub |
| ▬▬▬▬ | Slopes (Cut) | ○ ○ | Forest |
| ▬▬▬▬ | Slopes (Bank) | — | (5m) Intermediate Contour Line |
| ▬▬▬▬ | Vegetation Boundary | — | (25m) Supplementary Interval Contour |
| ▬▬▬▬ | River | — | (25m) Index Contour |
| ▬▬▬▬ | Tributary | | |
| ▬▬▬▬ | Sand Dune | | |



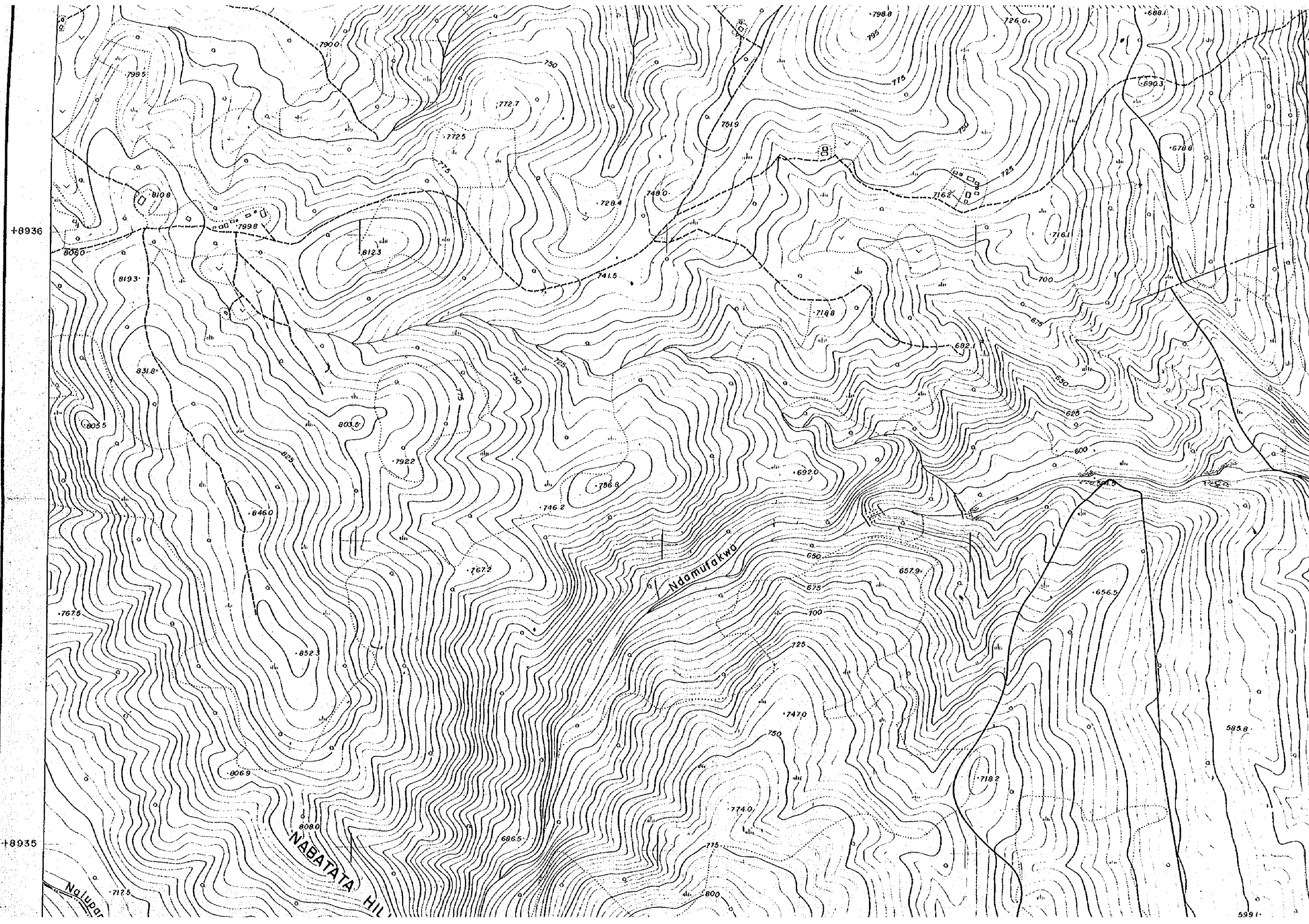
SCALE 1 : 5,000



+ 8936



1-0937



+8936

+8935

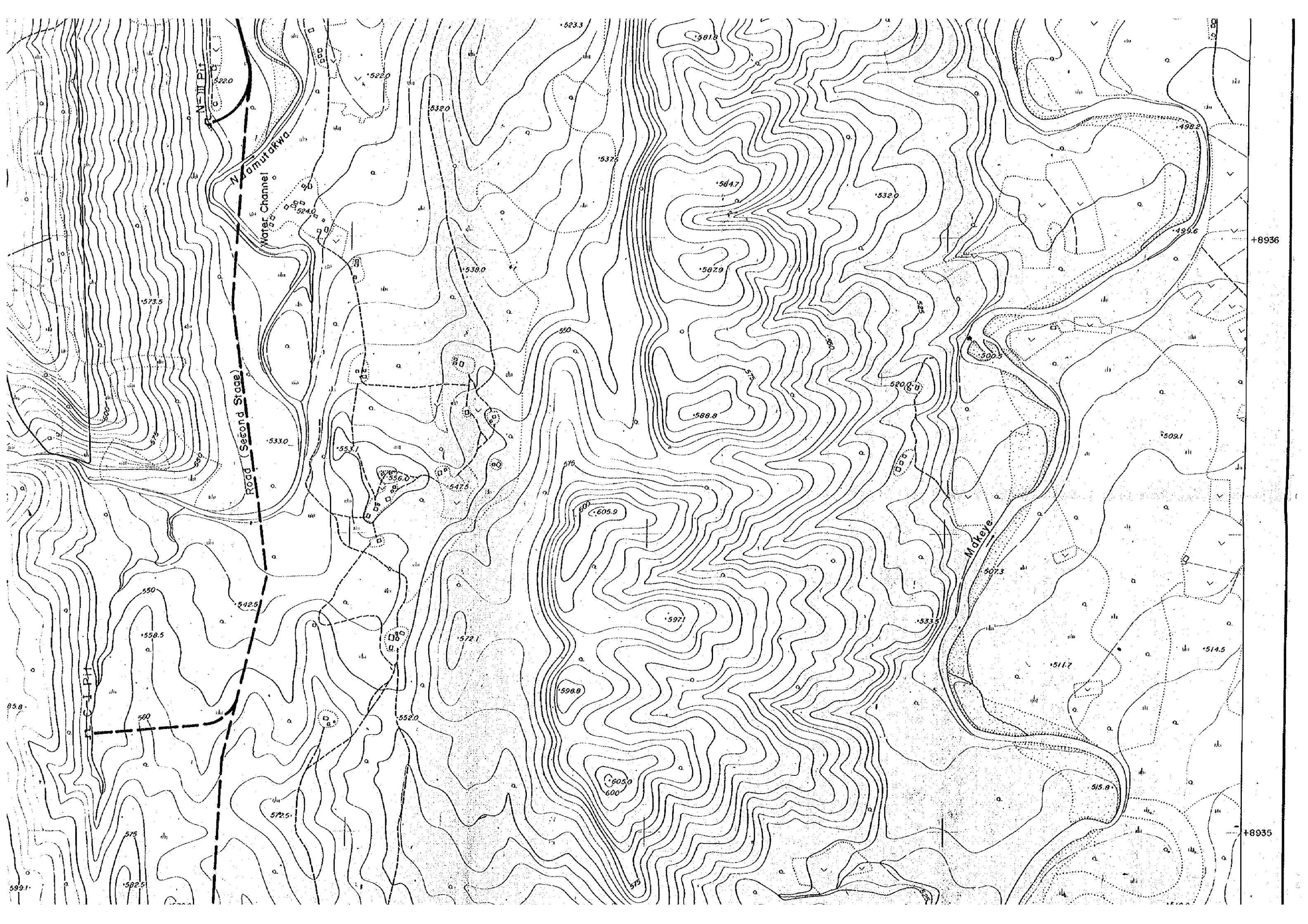
Ndamufakwo

NABATATA HILL

Nalupa

1:50,000

599.1



N-III PI

Water Channel

Road (Second Stage)

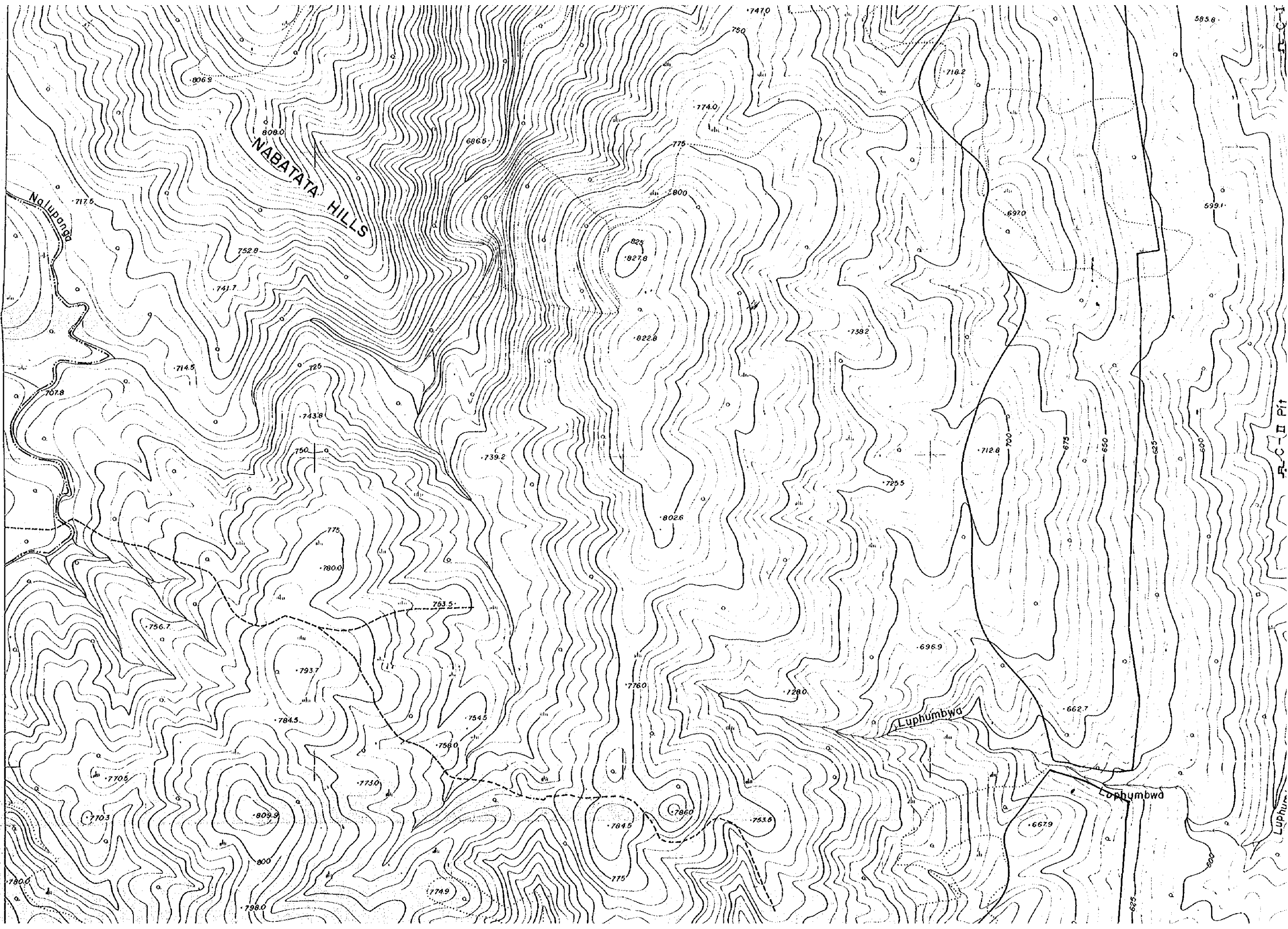
Makeye

+8936

+8935

+8935

+8934



R-C-II P11

