

NOTES

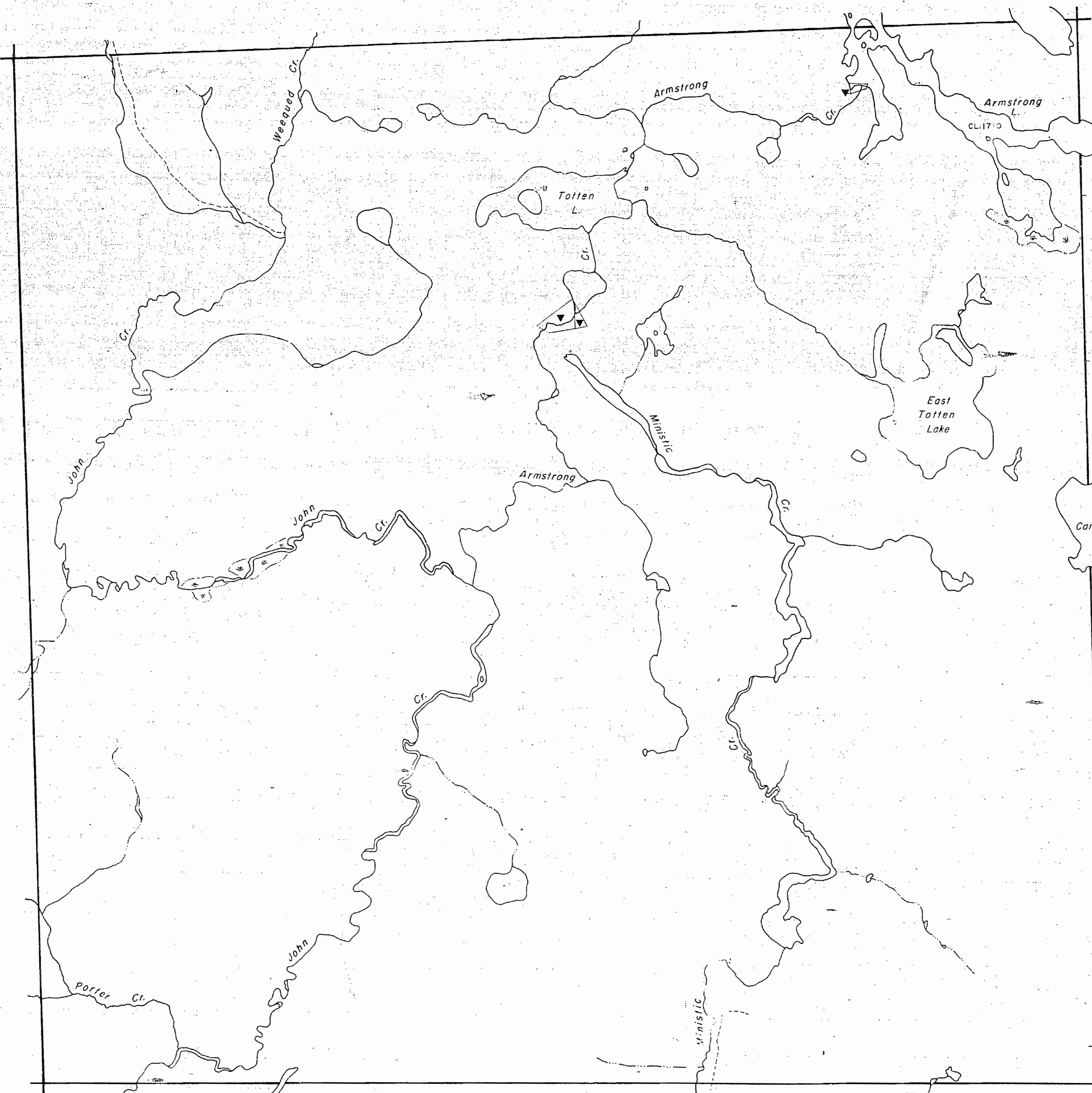
400' surface rights reservation along the shores
of all lakes and rivers.

Subdivision of this township into lots and
concessions was annulled Mar. 23, 1953.

Licence of Occupation No.1517 issued for
storage purposes on Ministic and Armstrong
Lakes.

Location CL.1710 Armstrong Lake, flooding
up to Lat. L. 1159.7 G.S.C. datum. File 20396.

VERNON TP. M.117



HYMAN TP. M. 945

J.S.H.

ERMATINGER TP. M.791 OFFICE USE ONLY

LEGEND

HIGHWAY AND ROUTE No.

OTHER ROADS

TRAILS

SURVEYED LINES:

TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.

UNSURVEYED LINES:

LOT LINES

PARCEL BOUNDARY

MINING CLAIMS ETC.

RAILWAY AND RIGHT OF WAY

UTILITY LINES

NON-PERENNIAL STREAM

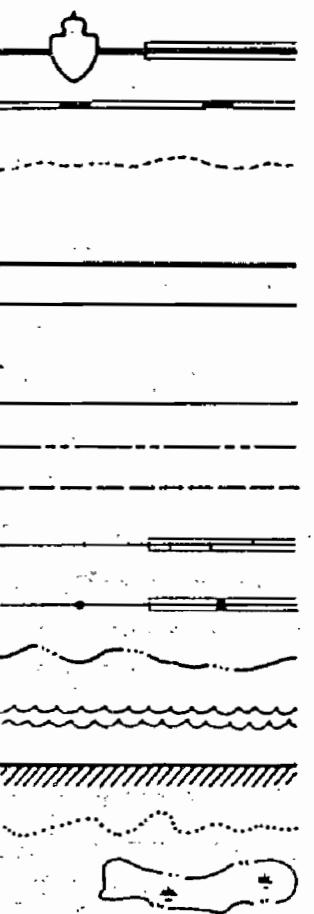
FLOODING OR FLOODING RIGHTS

SUBDIVISION

ORIGINAL SHORELINE,

MARSH OR MUSKEG

MINES



DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT

PATENT, SURFACE & MINING RIGHTS

SURFACE RIGHTS ONLY

MINING RIGHTS ONLY

LEASE, SURFACE & MINING RIGHTS

SURFACE RIGHTS ONLY

MINING RIGHTS ONLY

LICENCE OF OCCUPATION

CROWN LAND SALE

ORDER-IN-COUNCIL

RESERVATION

CANCELLED

SAND & GRAVEL

SYMBOL

●

○

□

■

△

▽

CS.

OC

SCALE : 1 INCH 40 CHAINS

FEET 0 500 1000 2000 4000 6000 8000
METRES 0 200 400 600 800 1 KM 2 KM

ACRES HECTARES
40 16

TOWNSHIP

TOTTEN

DISTRICT

SUDBURY

MINING DIVISION

SUDBURY

Ministry of Natural
Resources

Ontario Surveys and Mapping Branch

Date SEPT. 1975

Plan No.

Whitney Block
Queen's Park, Toronto

M.1161

TRILL TP. M.1163

46° 27' 47"
81° 34' 54"
Approx.

NOTES

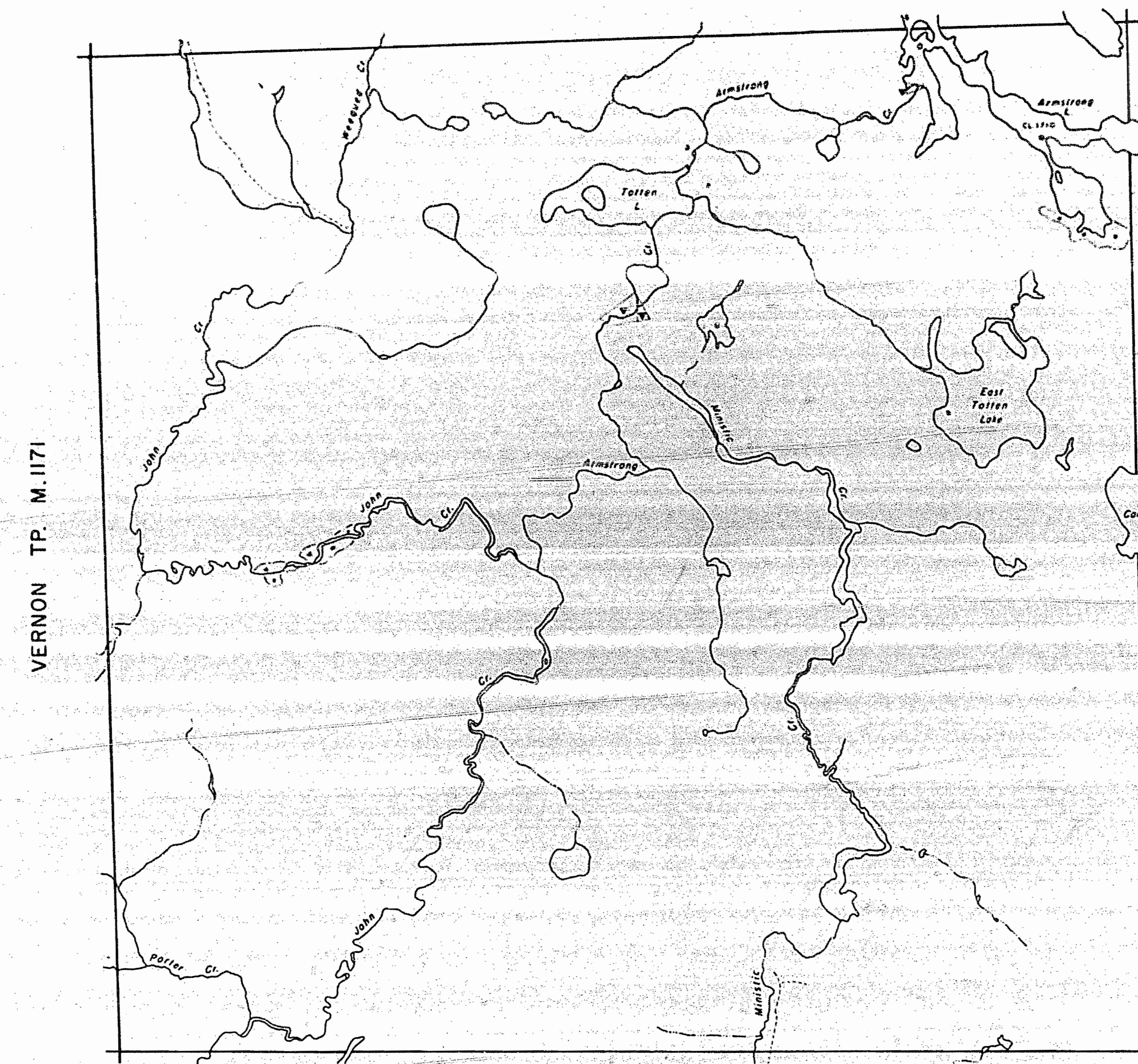
400 surface rights reservation along the shores of all lakes and rivers.

Subdivision of this township into lots and concessions was annulled Mar. 23, 1953.

Licence of Occupation No.1517 issued for storage purposes on Ministic and Armstrong Lakes

Location CL.1710 Armstrong Lake, flooding up to contour 1159.7' G.S.C. datum, File: 20396

ERMATINGER TP. M.791



HYMAN TP. M.945

J.S.H.

LEGEND

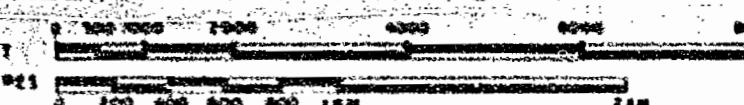
HIGHWAY AND ROUTE NO.	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIP, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
- SURFACE RIGHTS ONLY	○
- MINING RIGHTS ONLY	□
LEASE, SURFACE & MINING RIGHTS	■
- SURFACE RIGHTS ONLY	△
- MINING RIGHTS ONLY	▽
LICENCE OF OCCUPATION	▲
CROWN LAND SALE	◆
ORDER-IN-COUNCIL	○
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

* IN SERVICE 1954 09 22 - U

SCALE: 1 INCH = 40 CHAINS



ACRES	HECTARES
40	16

TOWNSHIP

TOTTEN

DISTRICT

SUDBURY

MINING DIVISION

SUDBURY



Ministry of Natural
Resources

Ontario Surveys and Mapping Branch

Date SEPT. 1975

Plan No.

Whitney Block
Queen's Park, Toronto

M.1161

MAP SYMBOLS

Aerial Cableway	—
Boundary	—
International	—
Interprovincial	—
District, Township, Indian Reserve	—
Appropriations	—
Lei, Concession	—
Appropriations	—
Park Boundary	—
Bridge	—
Road, Retired	—
Building	—
Chimney	—
Cliff, Pit, Pile	—
Contours	—
Interpolated	—
Approximate	—
Depression	—
Control Points	—
Horizontal	△ Q1774051
Vertical	○ 300.02
Culvert	—
Falls	—
Double line river	—
Fence, Hedge, Wall	—
Feature Outline (construction features, etc.)	—
Flooded Land	—
Lock	—
Marsh or Swamp	—
Mast	—
Mine Head Frame	—
Outcrop	—

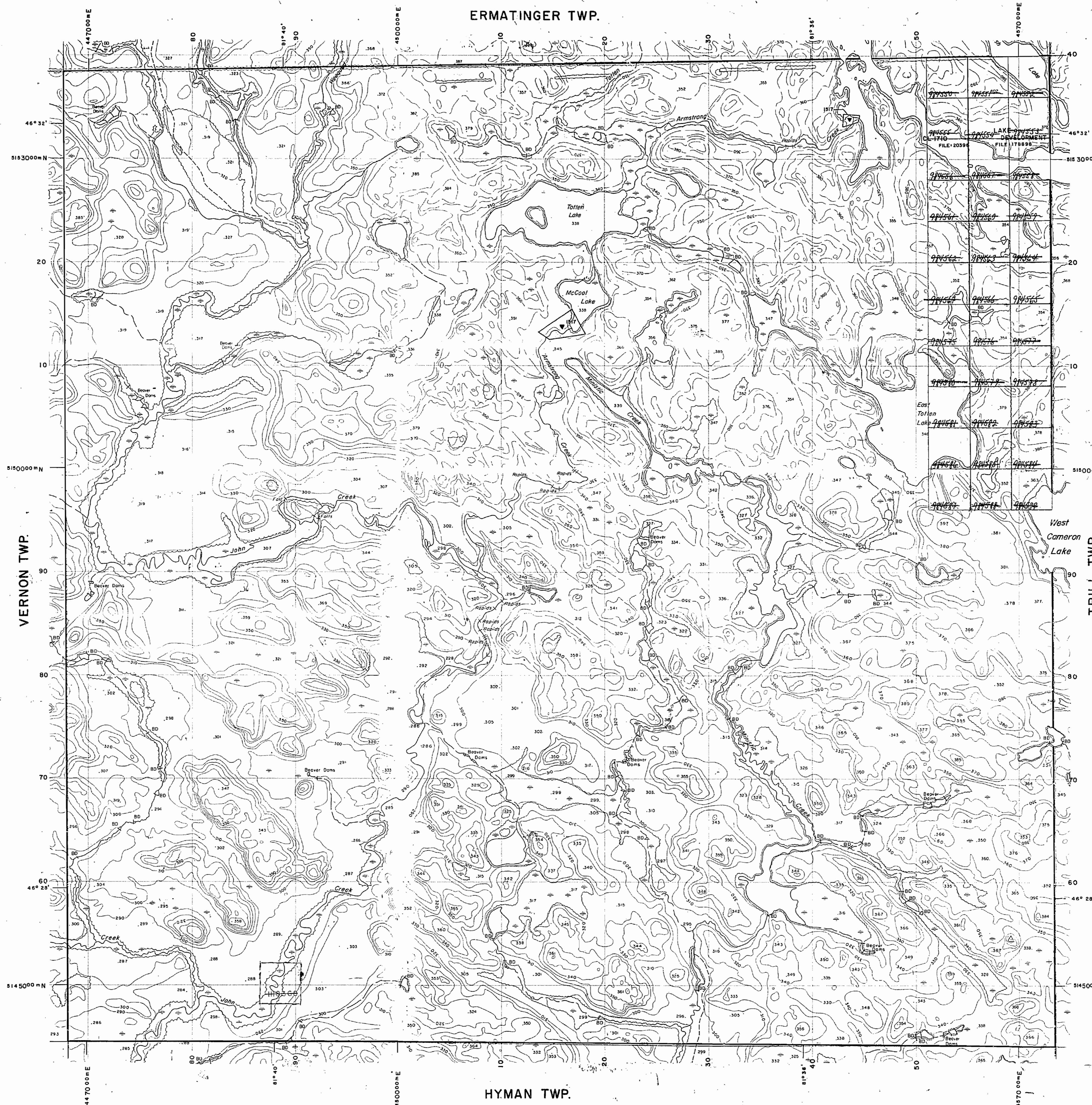
AREAS WITHDRAWN FROM DISPOSITION

M.R.O. — MINING RIGHTS ONLY
S.R.O. — SURFACE RIGHTS ONLY
M.+S. — MINING AND SURFACE RIGHTS

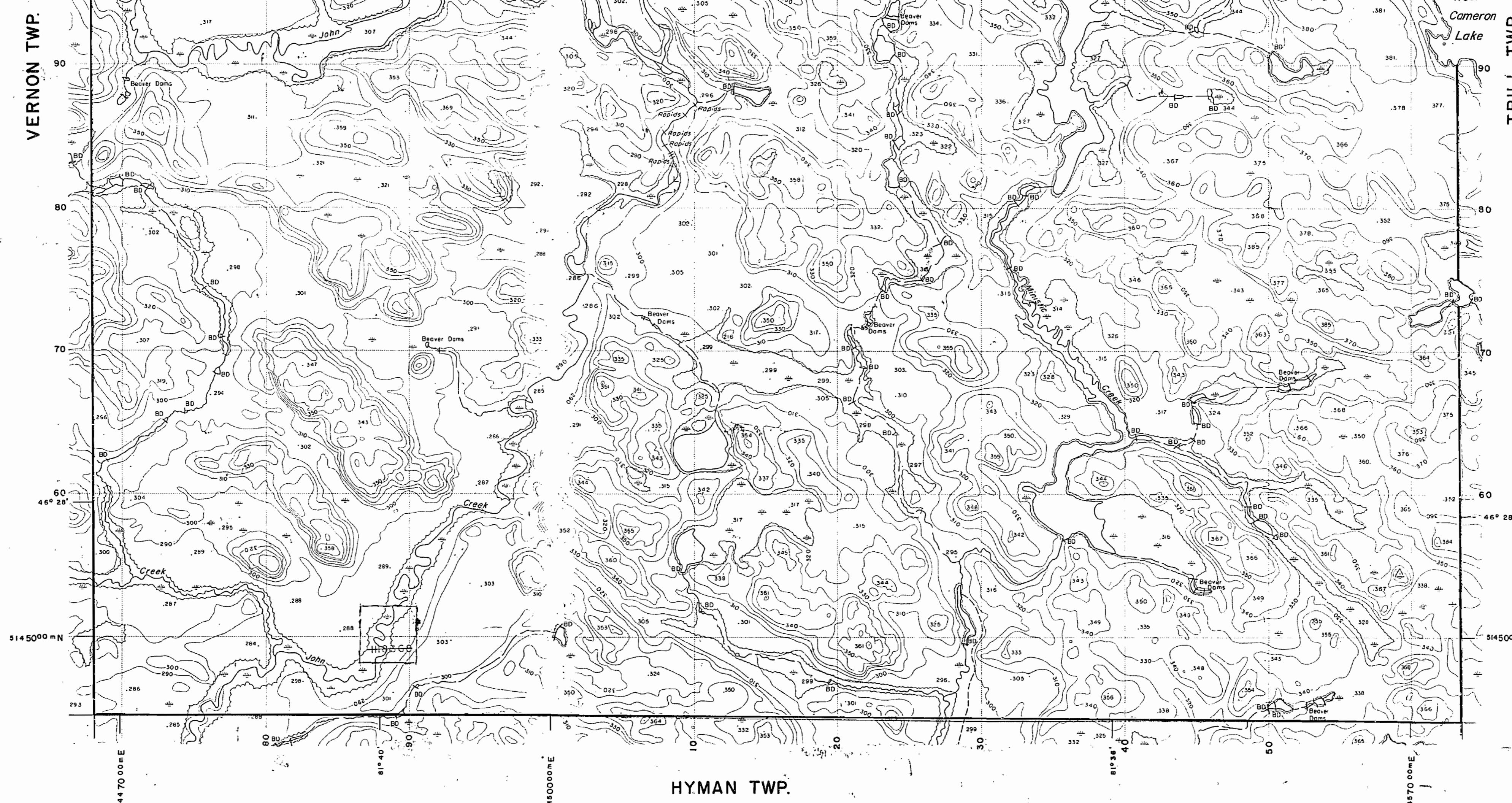
Description	Order No.	Date	Disposition	File
-------------	-----------	------	-------------	------

SUBDIVISION OF THIS TOWNSHIP INTO LOTS AND CONCESSIONS WAS ANNULLED MARCH 23, 1953.

ERMATINGER TWP.



HYMAN TWP.

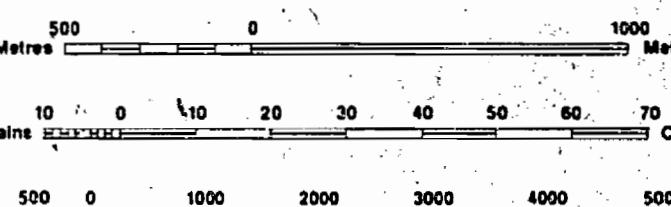


HIGHWAY AND ROUTE No.	—
OTHER ROADS	—
TRAILS	—
SURVEYED LINES	—
TOWNSHIPS, BASE LINES, ETC.	—
LOTS, MINING CLAIMS, PARCELS, ETC.	—
UNSURVEYED LINES	—
LOT LINES	—
PARCEL BOUNDARY	—
MINING CLAIMS ETC.	—
RAILWAY AND RIGHT OF WAY	—
UTILITY LINES	—
NON-PERENNIAL STREAM	—
FLOODING OR FLOODING RIGHTS	—
SUBDIVISION OR COMPOSITE PLAN	—
RESERVATIONS	—
ORIGINAL SHORELINE	—
MARSH OR MUSKEG	—
MINES	—
TRAVERSE MONUMENT	—

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	□
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	△
" MINING RIGHTS ONLY	◆
LICENCE OF OCCUPATION	▲
ORDER-IN-COUNCIL	○○
RESERVATION	○○○
CANCELLED	○○○○
SAND & GRAVEL	○○○○○

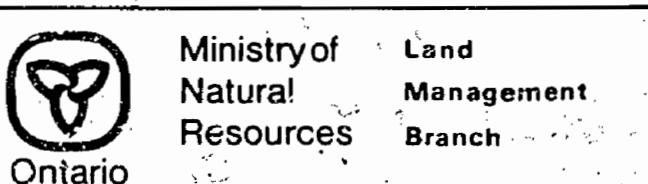
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 5, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.



DATE OF ISSUE	15/10/1984
SUDBURY	MINING RECORDER'S OFFICE

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

TOWNSHIP
TOTTEN
M.N.R. ADMINISTRATIVE DISTRICT
ESPAÑOLA
MINING-DIVISION
SUDBURY
LAND TITLES / REGISTRY DIVISION
SUDBURY



Original Construction: JUNE, 1985
Revised: G-2867

MAP SYMBOLS

Aerial Cableway	—
Boundary	- - -
Interprovincial	- - -
District, Township	- - -
Indian Reserve	- - -
Approximate	- - -
Lot, Concession	- - -
Appropriate	- - -
Park Boundary	- - -
Bridge	X
Road, Railroad	—
Single Track	— + —
Double Track	+ + —
Abandoned	+ + +
Turbulent	+ + +
Road	—
Highway, County	—
Township	—
Access road of doubtful	- - -
significance or significant driveway	- - -
Trail, Bush Road	(wriggle, zigzag)
Cliff, Pit, Pile	— + + +
Rapids	— + + +
Contours	—
Interpreted	—
Approximate	—
Depression	—
Control Points	—
Horizonal	△ 0.074001
Vertical	○ 300.02
Culvert	—
Falls	—
Double line river	—
Fence, Hedge,	—
Wall	—
Feature Outline	(construction features etc.)
Flooded Land	—
Lock	—
Marsh or Swamp	—
Mast	—
Mine Head Frame	—
Outcrop	—

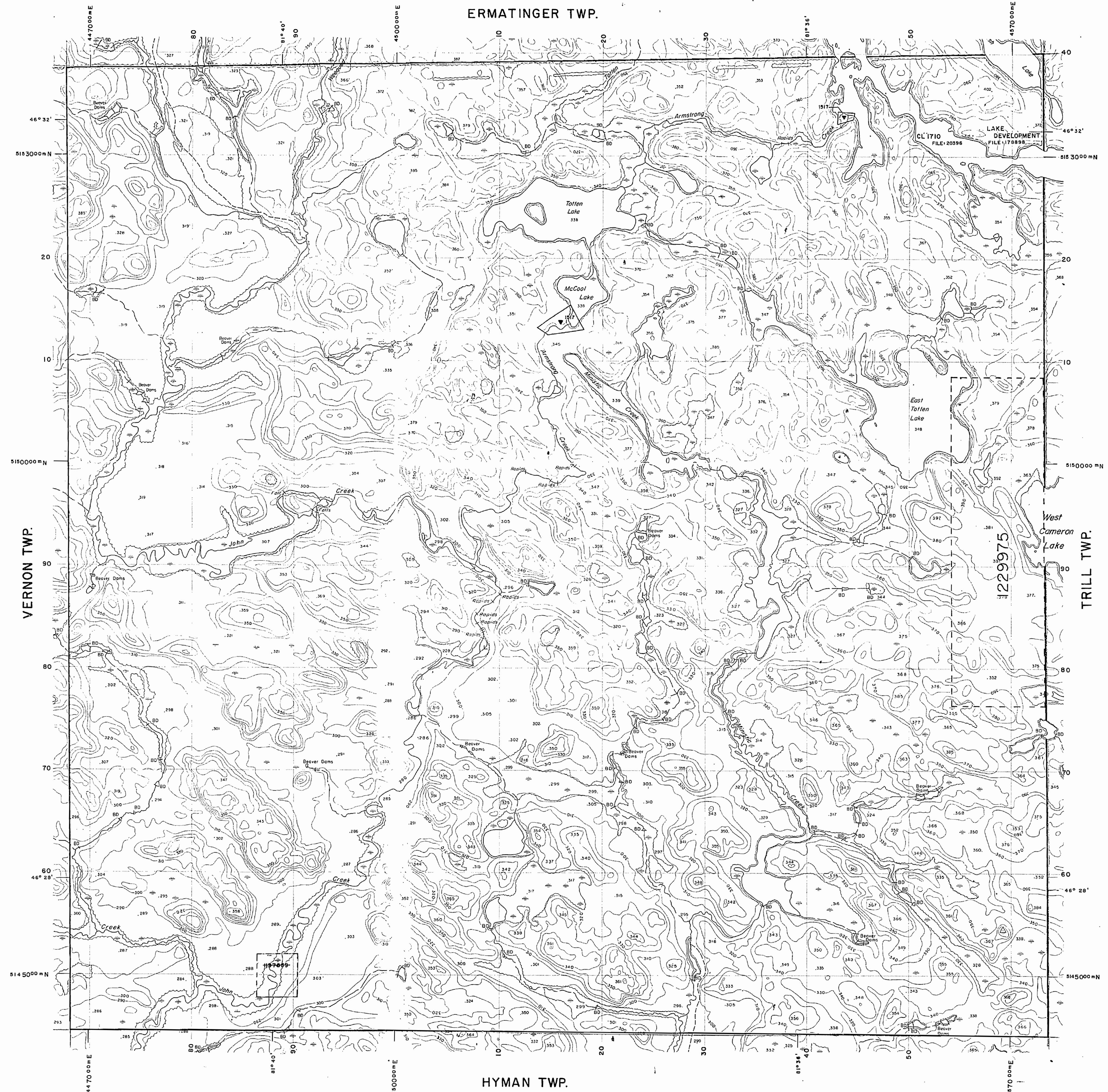
AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY
 S.R.O. - SURFACE RIGHTS ONLY
 M.+ S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

SUBDIVISION OF THIS TOWNSHIP INTO LOTS AND CONCESSIONS WAS ANNULLED MARCH 23, 1953.

ERMATINGER TWP.



HYMAN TWP.

TRILL TWP.

VERNON TWP.

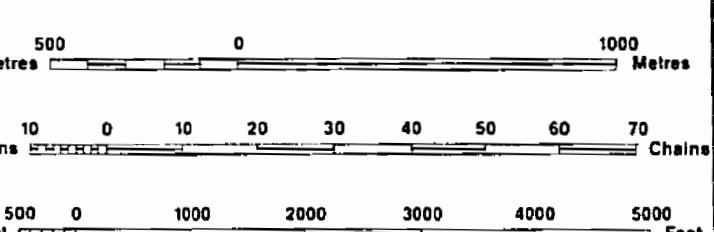
LEGEND

HIGHWAY AND ROUTE NO.	—
OTHER ROADS	—
TRAILS	—
SURVEYED LINES:	—
TOWNSHIPS, BASE LINES, ETC.	—
LOTS, MINING CLAIMS, PARCELS, ETC.	—
UNSURVEYED LINES:	—
LOT LINES	—
PARCEL BOUNDARY	—
MINING CLAIMS ETC.	—
RAILWAY AND RIGHT OF WAY	—
UTILITY LINES	—
NON-PERENNIAL STREAM	—
FLOODING OR FLOODING RIGHTS	—
SUBDIVISION OR COMPOSITE PLAN	—
RESERVATIONS	—
ORIGINAL SHORELINE	—
MARSH OR MUSKEG	—
MINES	—
TRAVERSE MONUMENT	—

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	●
" MINING RIGHTS ONLY	●
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	■
" MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	△
ORDER-IN-COUNCIL	○
RESERVATION	□
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1910, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.



SCALE 1:20 000
 GRID ZONE: 17

NOTES

LOCATION CL 1710-FLOODING RIGHTS TO CONTOUR ELEVATION 1155.7 G.S.C. DATUM ON ARMSTRONG LAKE, FILE 20396.

DATE OF ISSUE

JUN 23 1998

PROVINCIAL RECORDING
 OFFICE - SUDBURY

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

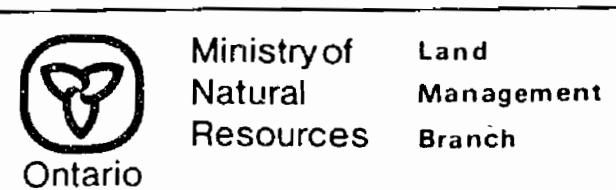
TOWNSHIP

TOTTEN

M.N.R. ADMINISTRATIVE DISTRICT
 ESPANOLA

MINING DIVISION

SUDBURY
 LAND TITLES / REGISTRY DIVISION
 SUDBURY



Original Compilation: JUNE 1985
 Revised: G-2867

MAP SYMBOLS

Aerial Cableway	— — —	Pipeline (above ground)	— — —
Boundary	" "	Railroad	— — —
International	— + —	Single Track	+ + +
Interprovincial	— + —	Double Track	+ + + +
District, Township	— — —	Abandoned	+ + —
Indian Reserve	— — —	Turntable	+ + + + —
Approximate	— — —	Road	— — —
Lot, Concession	— — —	Highway, County	— — —
Approximate	— — —	Township	— — —
Park Boundary	— — —	Access (road or doubtful maintenance or significant driveway)	— + + +
Bridge	— + + +	Trail, Bush Road (portage, alley)	— — —
Road, Railroad	— + + +	Rapids	— + + +
Building	[] •	Double line river with multiple rapids	— + + +
Chimney	○	Double line river with multiple rapids	— + + +
Cliff, Pit, Pile	TTTTT	Reservoir	[] Reservoir
Contours	— 68 —	River, Stream, Canal	— — —
Interpolated	— — —	Approximate	— + + +
Approximate	— — —	Seasonal	— + + +
Depression	— + —	Direction of flow	— + + +
Control Points		Rock	+
Horizontal	0 01774051	Significant	+
Vertical	0 300.02	School	○ ○ ○ ○ ○
Culvert	— + —	Spot Elevation (lake elevations)	-300.0
Falls	— + —	Tower	■ ■
Double line river	— + —	Transmission Line	
Fence, Hedge, Wall	— — —	Poles	— + + +
Feature Outline (Construction features, etc.)	[] []	Pylons	— + + +
Flooded Land	— + + +	Tunnel	— + + +
Lock	— + + +	Utility Poles	•
Marsh or Swamp	— + +	Wharf, Dock, Pier	— — —
Mast	— +	Wooded Area	○ ○ ○ ○ ○
Mine Head Frame	[]		
Outcrop	[]		

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. — MINING RIGHTS ONLY

S.R.O. — SURFACE RIGHTS ONLY

M.+S. — MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

SUBDIVISION OF THIS TOWNSHIP INTO LOTS AND CONCESSIONS WAS ANNULLED MARCH 23, 1953.

ERMATINGER TWP.



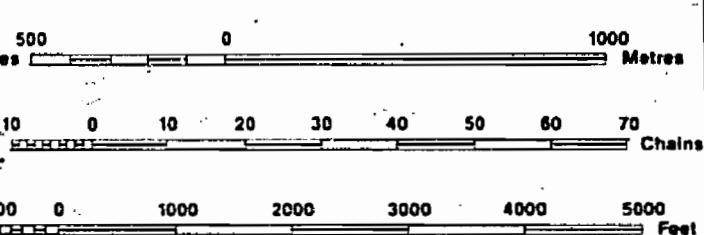
LEGEND

GHWAY AND ROUTE No.	
TER ROADS	
RAILS	
URVEYED LINES:	
TOWNSHIPS, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ETC.	
NSURVEYED LINES:	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
AILWAY AND RIGHT OF WAY	
ILITY LINES	
ON-PERENNIAL STREAM	
LOODING OR FLOODING RIGHTS	
UDVISION OR COMPOSITE PLAN	
ESERVATIONS	
ORIGINAL SHORELINE	
ARSH OR MUSKEG	
INES	
RAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

<u>TYPE OF DOCUMENT</u>	<u>SYMBOL</u>
ATENT, SURFACE & MINING RIGHTS	●
" . SURFACE RIGHTS ONLY.....	○
" . MINING RIGHTS ONLY	○
EASE, SURFACE & MINING RIGHTS.....	■
" . SURFACE RIGHTS ONLY.....	□
" . MINING RIGHTS ONLY	□
CENCE OF OCCUPATION	▼
RDER-IN-COUNCIL	OC
ESERVATION	◎
ANCELLED	✗
AND & GRAVEL	◎

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.



SCALE 1:20 000
GRID ZONE 17

NOTES

LOCATION CL 1710-FLOODING RIGHTS TO CONTOUR
ELEVATION 1159.7 G.S.C. DATUM ON ARMSTRONG
LAKE. FILE 20396.

E INFORMATION THAT
PEARS ON THIS MAP
AS BEEN COMPILED
OM VARIOUS SOURCES,
D ACCURACY IS NOT
ARANTEED. THOSE
SHING TO STAKE MIN-
G CLAIMS SHOULD CON-
LT WITH THE MINING
CORDER, MINISTRY OF
ORTHERN DEVELOP-
ENT AND MINES, FOR AD-
ITIONAL INFORMATION
THE STATUS OF THE
NDS SHOWN HEREON.

WNSHIP

OTTEN

N.R. ADMINISTRATIVE DISTRICT

SPANOLA

NING DIVISION

JUDSBURY

END TITLES / REGISTRY DIVISION



The logo consists of a circular emblem on the left containing a stylized three-leaf plant, possibly a maple leaf. To the right of the emblem, the text "Ministry of Natural Resources" is stacked vertically, and to its right, the text "Land Management Branch" is also stacked vertically.

inal • JUNE 1985

vised: *W. H. S.*

Figure 1. A photograph of the two sets of samples used in this study.

TOTTEN

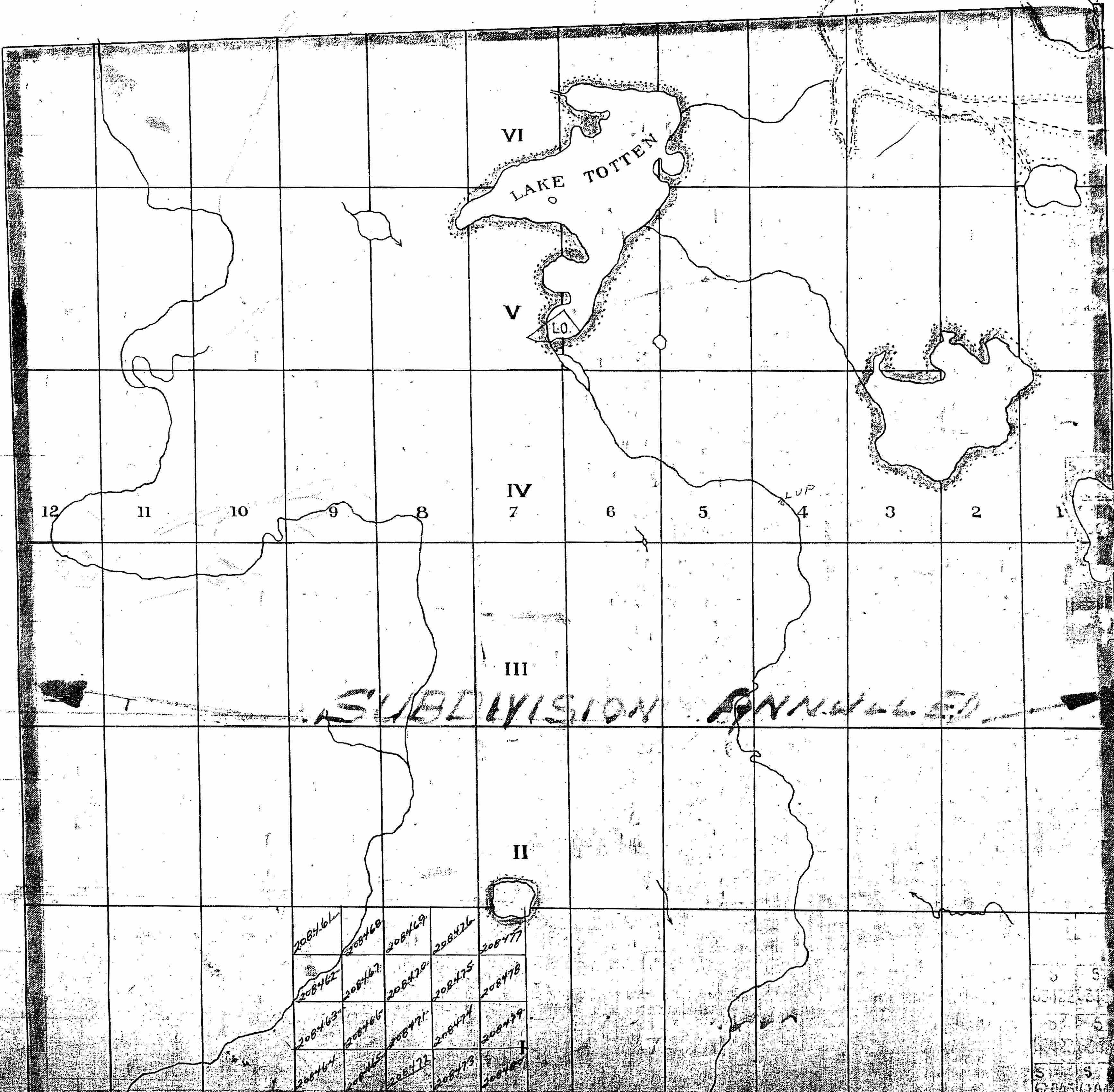
ALGOMA DISTRICT

SCALE 40 CHAINS = 1 INCH

1161

Sect. 53

E R M A T I N G E R



TOTTEN

ALGOMA DISTRICT

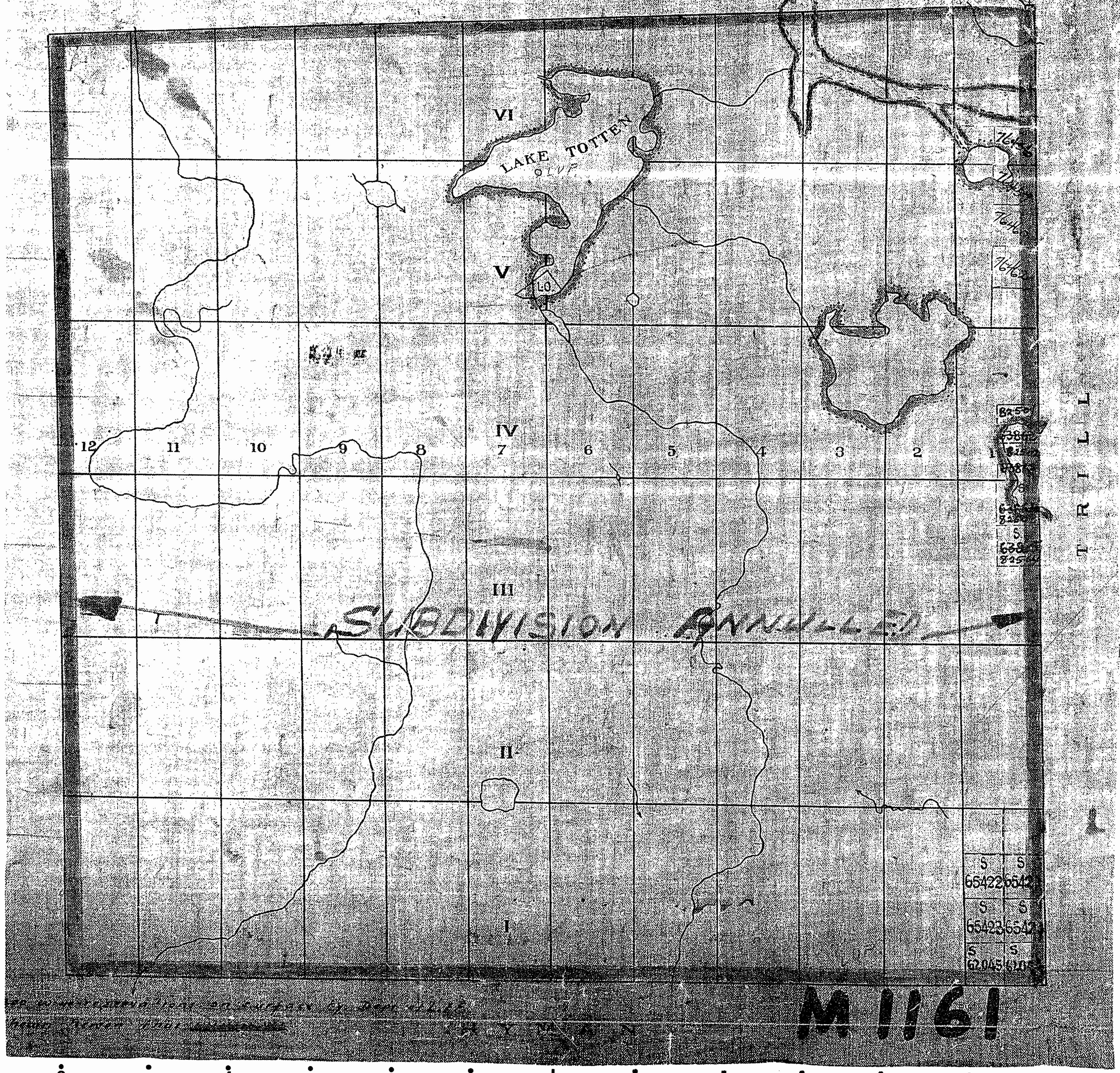
SCALE 40 CHAINS = 1 INCH

Sept. 53

1953

1953

ER MAT T N G E R



1161

TOTTEN

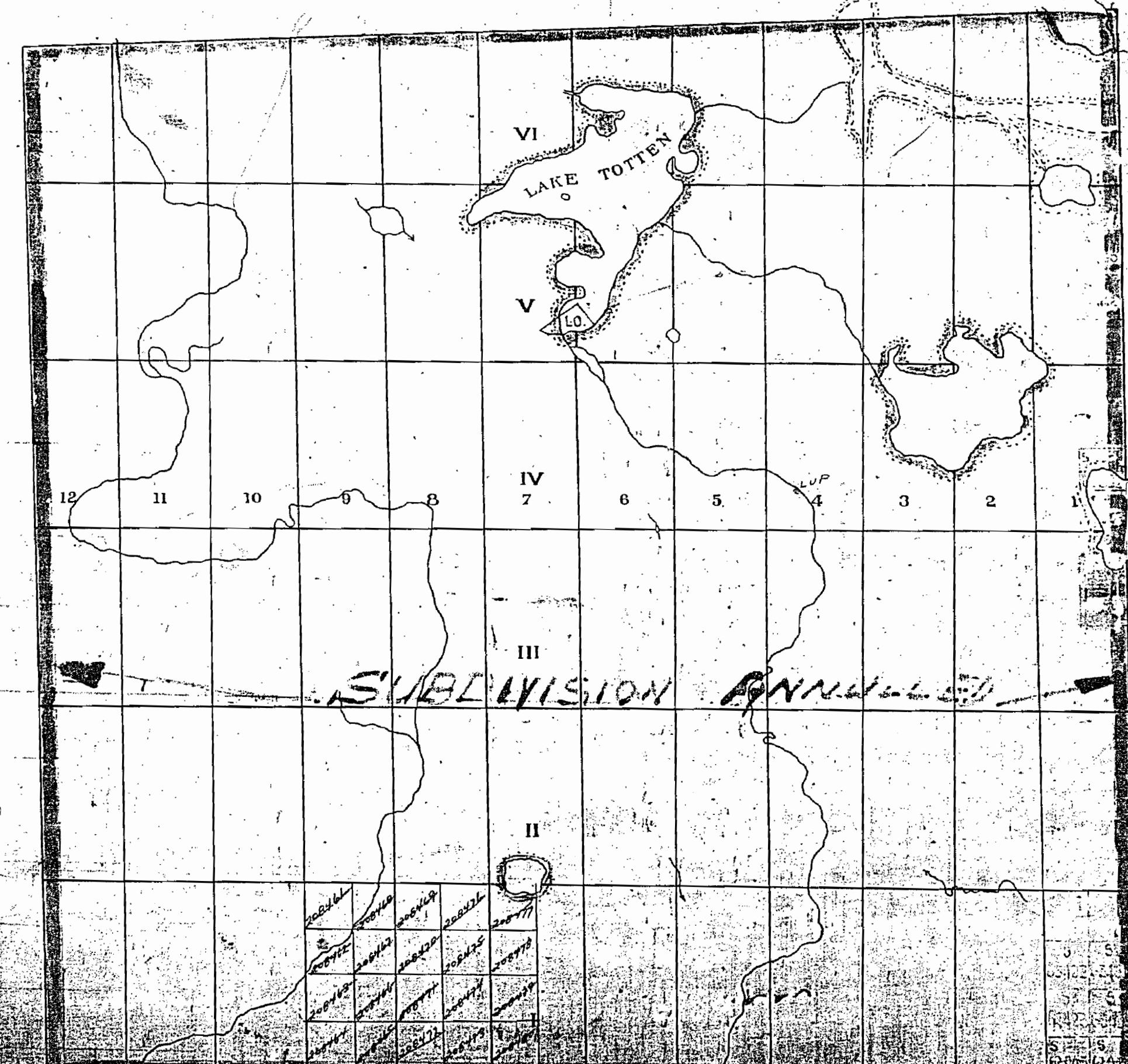
ALGOMA DISTRICT

SCALE 40 CHAINS = 1 INCH

Circle

Sub Sect. 53

E R M A T I N G E R



M 16
TOTTEN

1161

TOKYO

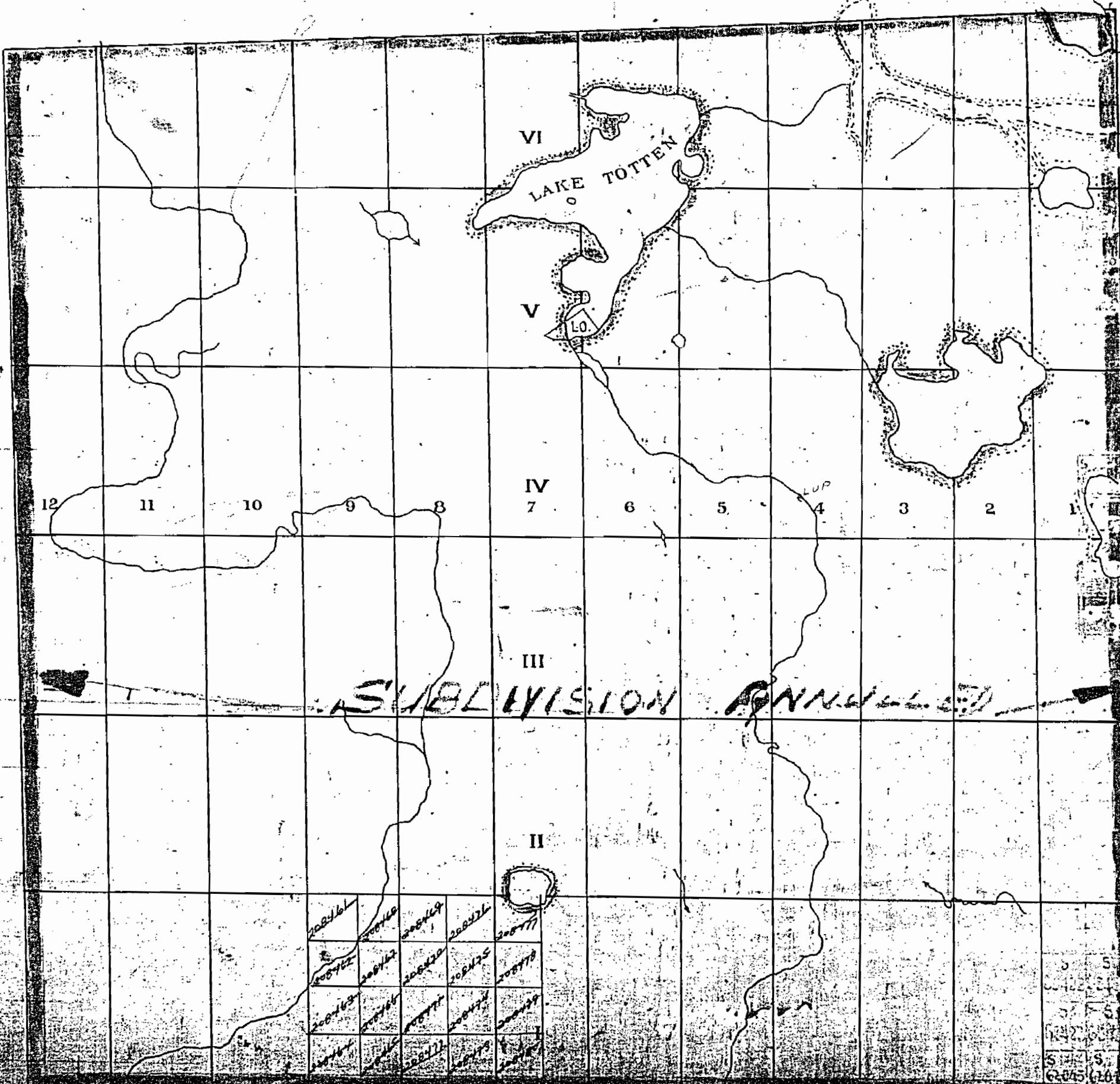
ALGOMA DISTRICT

SCALE 40 CHAINS = 1 INCH

Car
de

Sub-Sect. 53

E R M A T I N G E R



T R I L L

M 116

1161

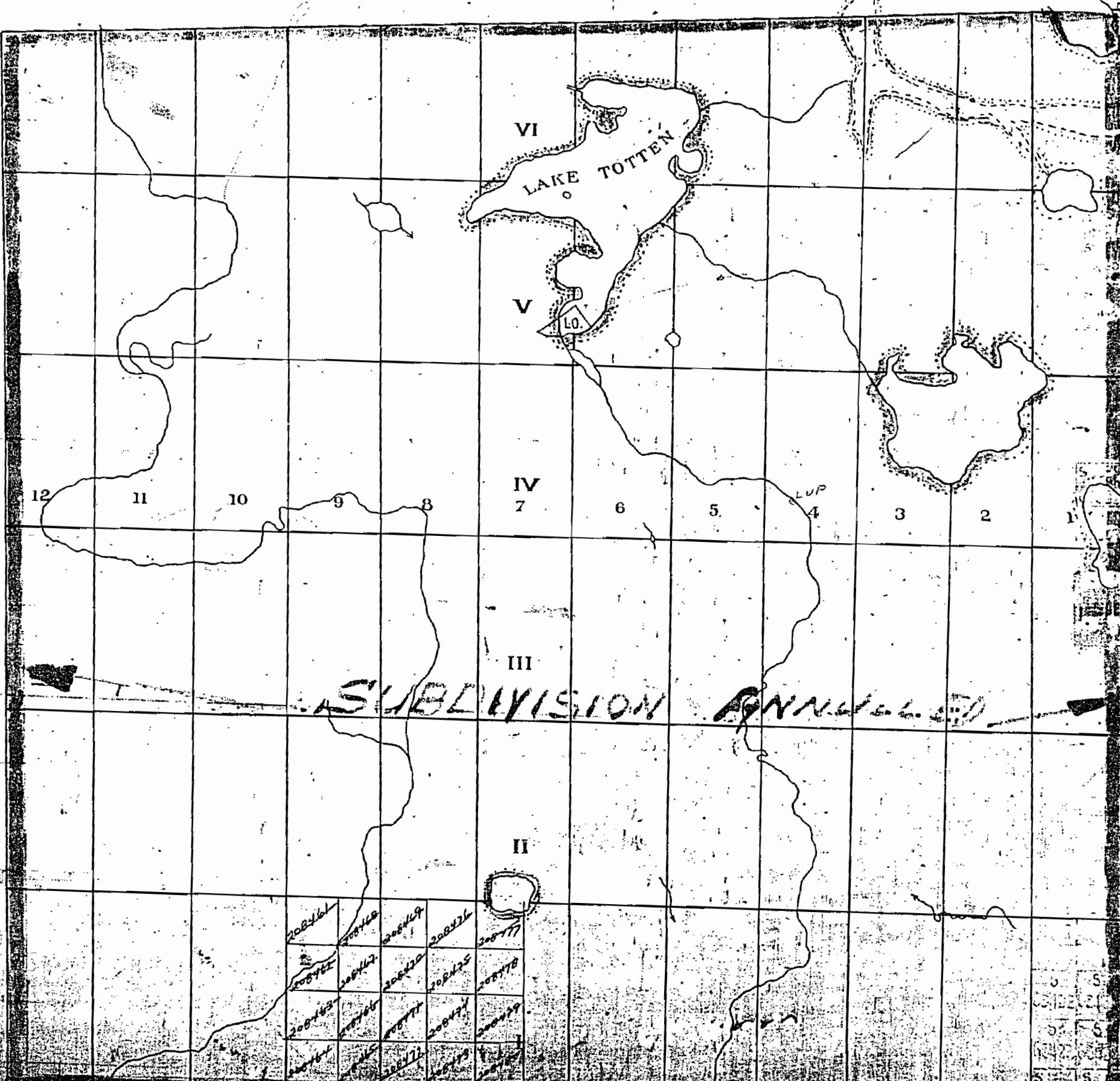
TOTTEN

ALGOMA DISTRICT

SCALE 40 CHAINS = 1 INCH

Sub. Sect. 5

E R M A T D N G E R

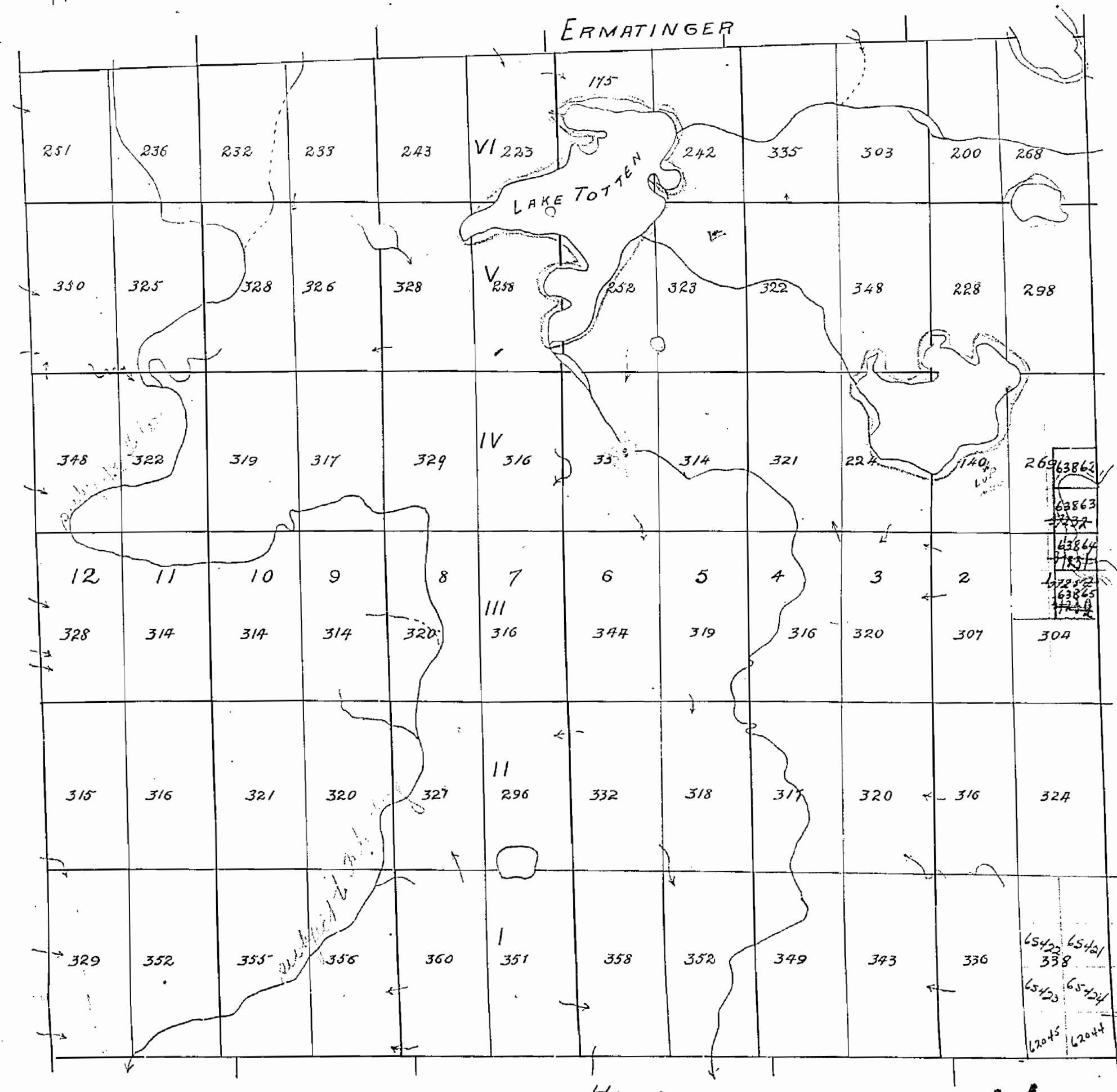


MU/6
TOTTEN

1161

TOTTEN

SCALE 1:200,000
1 CHAIN = 100 METERS



1161

1161

TOTTEN

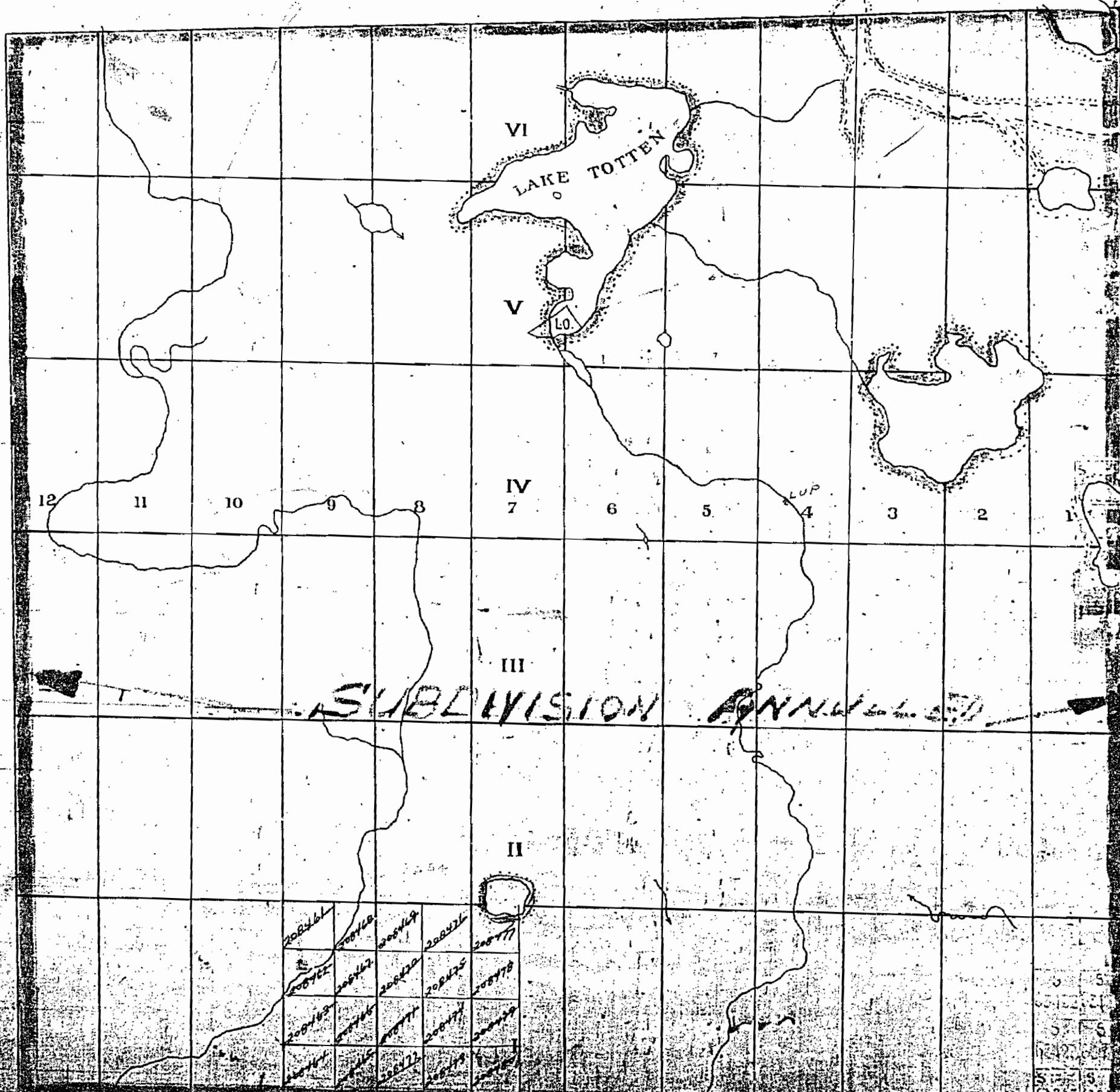
ALGOMA DISTRICT

SCALE 40 CHAINS = 1 INCH

Card

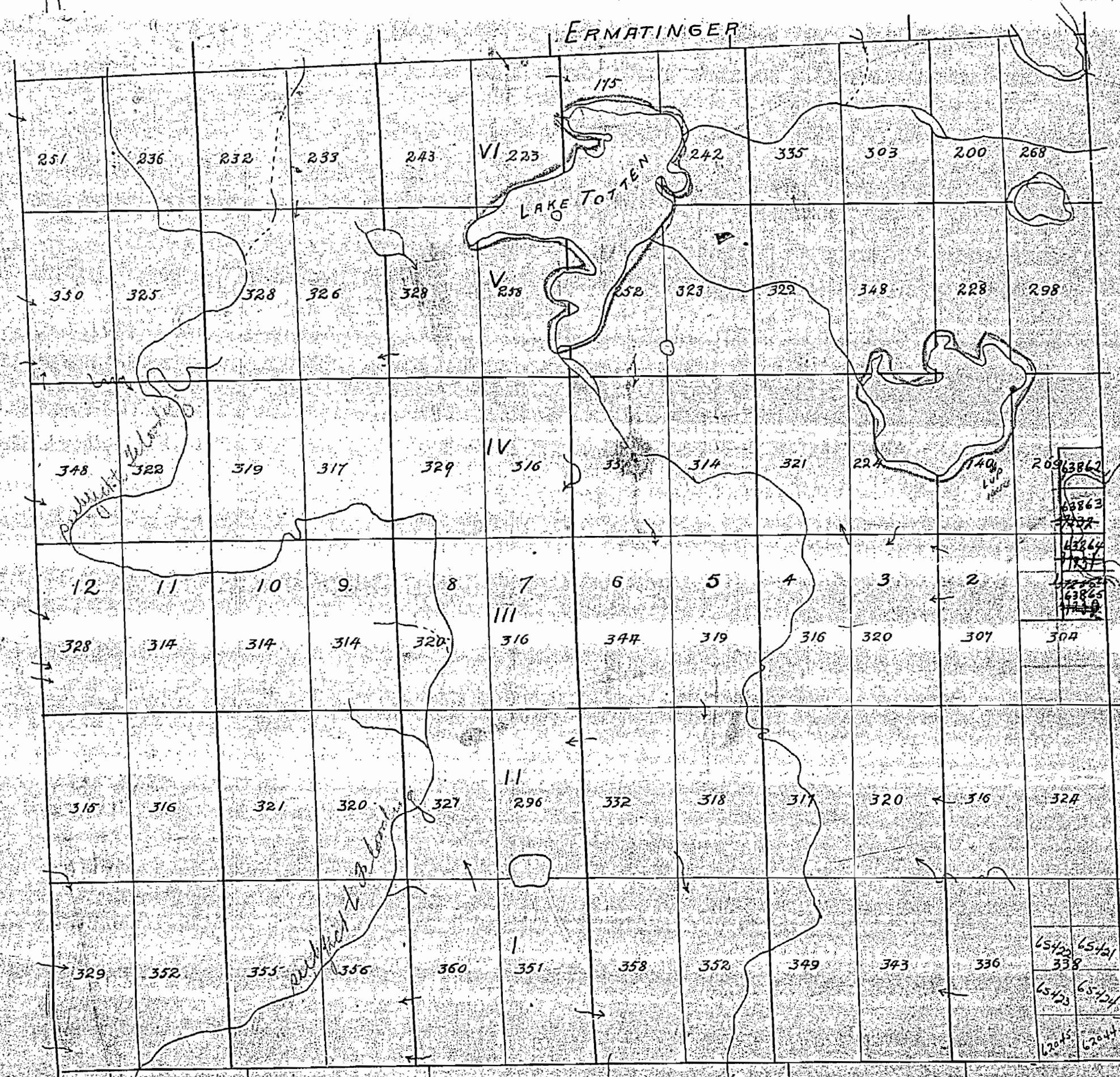
Sub. Sect. 53

ERMATINGER



TOTTEN

SCALE EACH IN STO 1 INCH



P. 10

m 116

1161

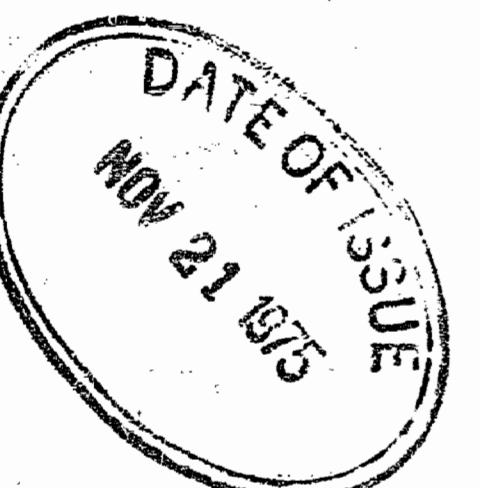
NOTES

400' surface rights reservation along the shores of all lakes and rivers.

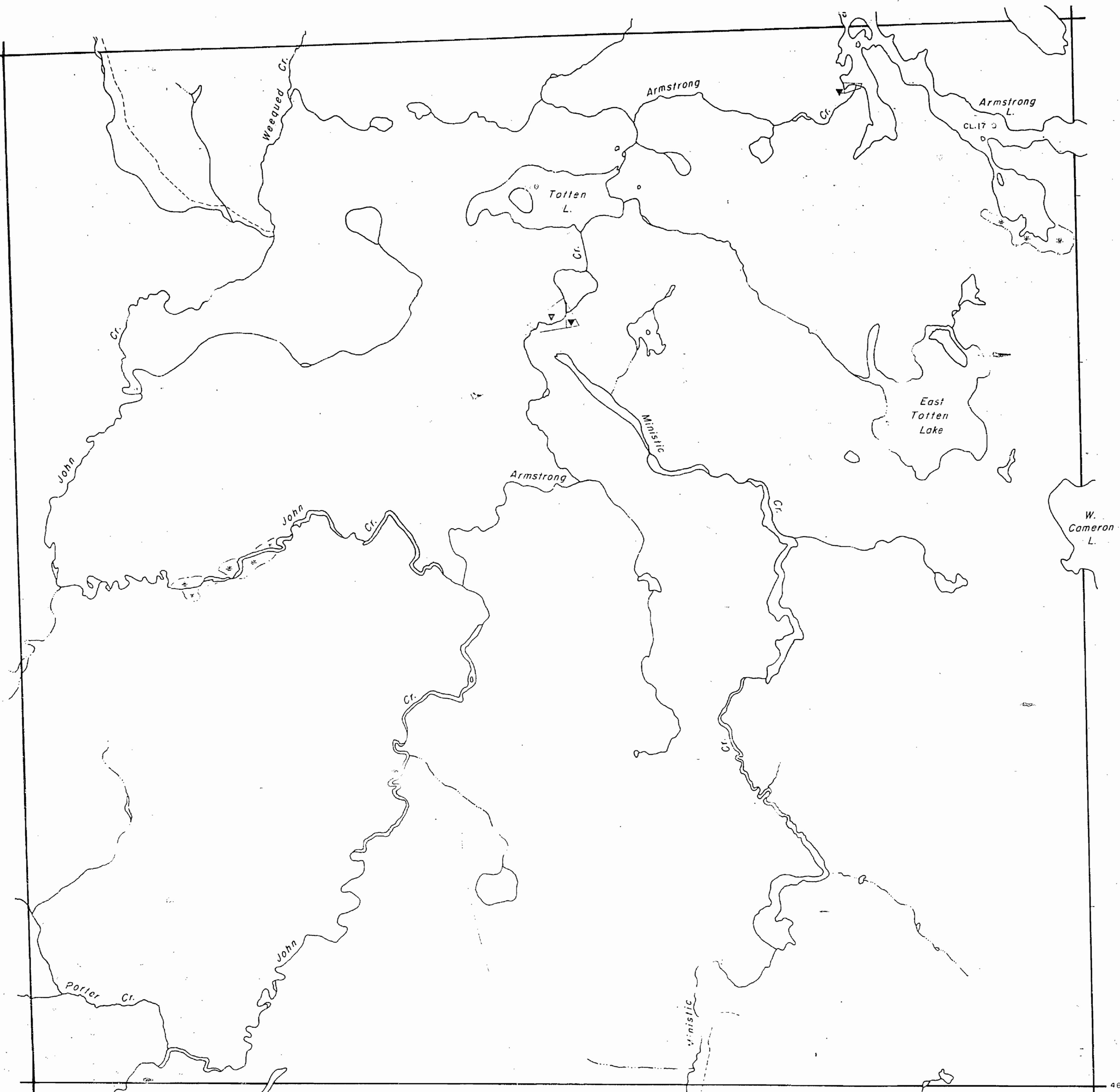
Subdivision of this township into lots and concessions was annulled Mar. 23, 1953.

Licence of Occupation No. 1517 issued for storage purposes on Ministic and Armstrong Lakes.

Location S. 17 10 Armstrong Lake, flooding up to 1159.7' G.S.C. datum. File 20396



VERNON TP. M. 1171



HYMAN TP. M. 945

ERMATINGER TP. M. 791 OFFICE USE ONLY

LEGEND

HIGHWAY AND ROUTE NO.

OTHER ROADS

TRAILS

SURVEYED LINES:

TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.

UNSURVEYED LINES:

LOT LINES

PARCEL BOUNDARY

MINING CLAIMS ETC.

RAILWAY AND RIGHT OF WAY

UTILITY LINES

NON-PERENNIAL STREAM

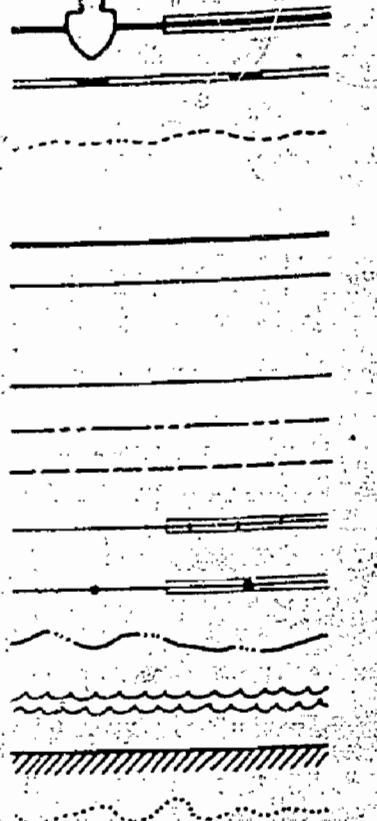
FLOODING OR FLOODING RIGHTS

SUBDIVISION

ORIGINAL SHORELINE

MARSH OR MUSKEG

MINES



DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT

PATENT, SURFACE & MINING RIGHTS

SURFACE RIGHTS ONLY

MINING RIGHTS ONLY

LEASE, SURFACE & MINING RIGHTS

SURFACE RIGHTS ONLY

MINING RIGHTS ONLY

LICENCE OF OCCUPATION

CROWN LAND SALE

ORDER-IN-COUNCIL

RESERVATION

CANCELLED

SAND & GRAVEL



SCALE : 1 INCH 40 CHAINS

FEET 0 500 1000 2000 4000 6000 8000
METRES 0 200 400 600 800 1KM 2KM

ACRES HECTARES
40 16

TOWNSHIP

TOTTEN

DISTRICT

SUDBURY

MINING DIVISION

SUDBURY

Ministry of Natural Resources

Ontario Surveys and Mapping Branch

Date SEPT. 1975 Plan No.

Whitney Block Queen's Park, Toronto

M. 1161

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Subdivision of this township into lots and concessions was annulled Mar. 23, 1953.

Licence of Occupation No.1517 issued for storage purposes on Ministic and Armstrong Lakes.

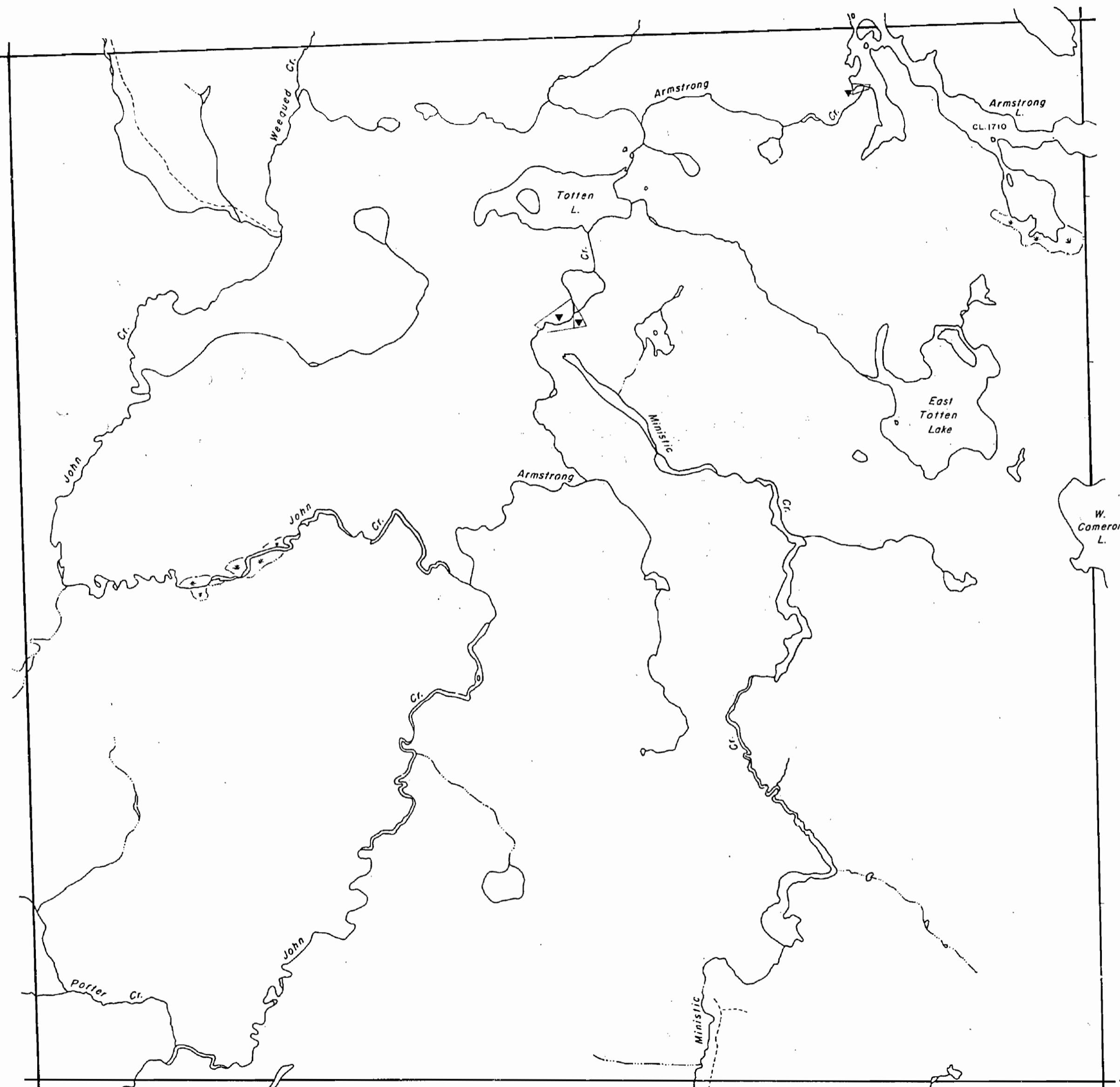
Location CL.1710 Armstrong Lake, flooding up to contour 1159.7' G.S.C. datum. File: 20396

ERMATINGER TP. M.791

VERNON TP. M.1171

TRILL TP. M.1163

HYMAN TP. M. 945



LEGEND

HIGHWAY AND ROUTE NO.



OTHER ROADS



TRAILS

SURVEYED LINES:



TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.

UNSURVEYED LINES:



LOT LINES

PARCEL BOUNDARY



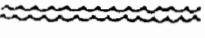
MINING CLAIMS ETC.

RAILWAY AND RIGHT OF WAY



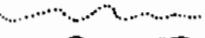
UTILITY LINES

NON-PERENNIAL STREAM



FLOODING OR FLOODING RIGHTS

SUBDIVISION



ORIGINAL SHORELINE

MARSH OR MUSKEG



MINES

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT

SYMBOL

PATENT, SURFACE & MINING RIGHTS



" SURFACE RIGHTS ONLY



" MINING RIGHTS ONLY



LEASE, SURFACE & MINING RIGHTS



" SURFACE RIGHTS ONLY



" MINING RIGHTS ONLY



LICENCE OF OCCUPATION

CROWN LAND SALE



ORDER-IN-COUNCIL



RESERVATION



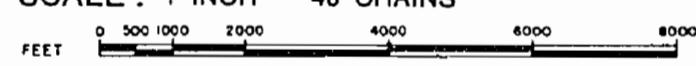
CANCELLED



SAND & GRAVEL

* IN SERVICE 1924 08 22 - JR

SCALE : 1 INCH 40 CHAINS



ACRES HECTARES

40

16

TOWNSHIP

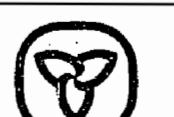
TOTTEN

DISTRICT

SUDBURY

MINING DIVISION

SUDBURY



Ministry of Natural
Resources

Ontario Surveys and Mapping Branch

Date SEPT. 1975

Plan No.

Whitney Block

Queen's Park, Toronto

M.1161