



# Finding your woodlot boundary markers: Using GPS and Property Plans

Sharing my Experiences



# The Basics

- ▀ Locate the Markers
  - ▀ Are you sure it is the right one?
- ▀ Keep a record/collect data
- ▀ Presentation: Plot and display the boundaries
- ▀ Bonus: about early surveys



# Locating Markers

What do you need?

- Survey Plan (after ca.1965) or Survey Description (Before ca. 1965)
  - Your own or your neighbours'
- GPS Receiver,
- Some field tools
- Computer
  - Presentation program

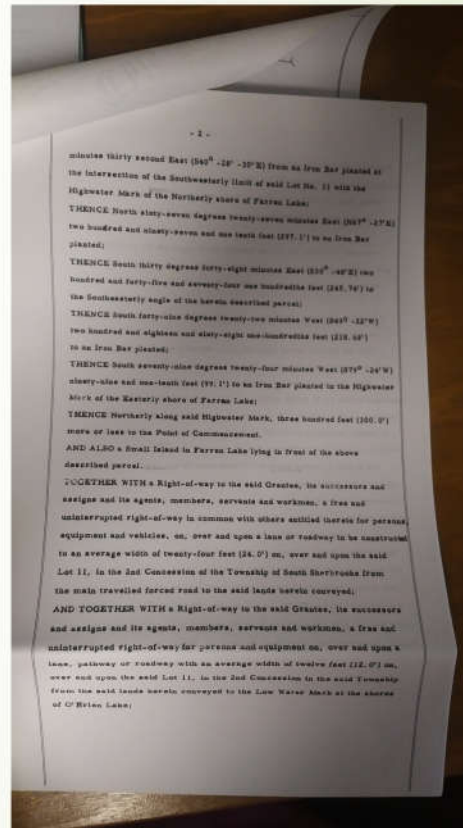
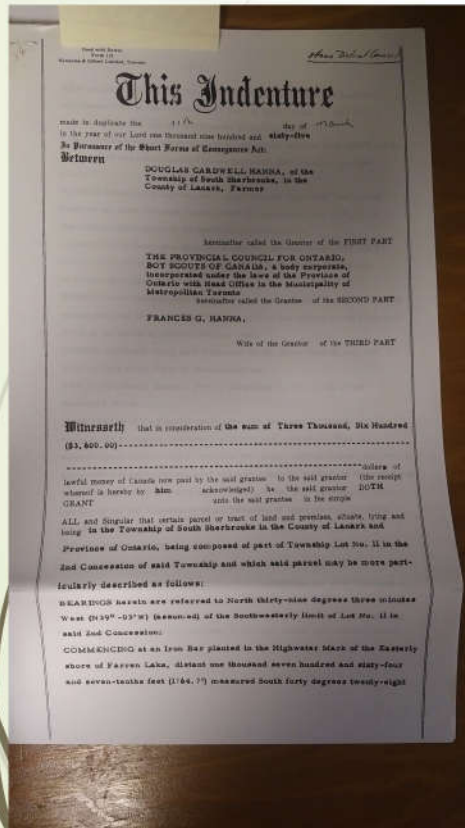


# Locating Markers

## - Getting the Survey Plan

- Survey Plan (after ca.1965) or Survey Description (Before ca. 1965)
- Ontario Registry Offices, For every City or County
  - Ottawa (Elgin Street), Lanark (Almonte), Prescott (Hawkesbury), Glengarry (Alexandria), Grenville (Prescott), Stormont (Cornwall), Russell (Embrun), Renfrew (Pembroke)
  - <https://www.ontario.ca/page/land-registry-offices-lro>
  - Open and accessible to the public during business hours
  - Assistance to help you find your Survey Plan and your neighbours survey plans

➤ Survey Description (Before ca. 1965)



### Farren Lake Property Metes and Bounds Description

Commencing at an Iron Bar planted in the Highwater Mark of the Easterly shore of Farren Lake, distant one thousand seven hundred and sixty-four feet and seven-tenths feet (1764.7') measured South forty degrees twenty-eight minutes thirty second (sic) East ( $S40^{\circ}-28'-30''$  E) from an Iron Bar planted at the intersection of southwesterly limit of said Lot No. 11 with the highwater mark of the Northerly shore of Farren Lake:

THENCE North sixty-seven degrees twenty-seven minutes East (N67°-27'E) two hundred and ninety-seven and one-tenths feet (297.1') to an iron bar planted;

THENCE South thirty degrees forty-eight minutes East (S30°- 48' E) two hundred and forty-five and seventy-four one hundredth feet (245.74') to the Southeasterly Angle of the herein described parcel;

THENCE South forty-nine degrees twenty-two minutes West (S49°-22'W) two hundred and eighteen and sixty-eight one-hundredths feet (218.68') to an Iron Bar planted;

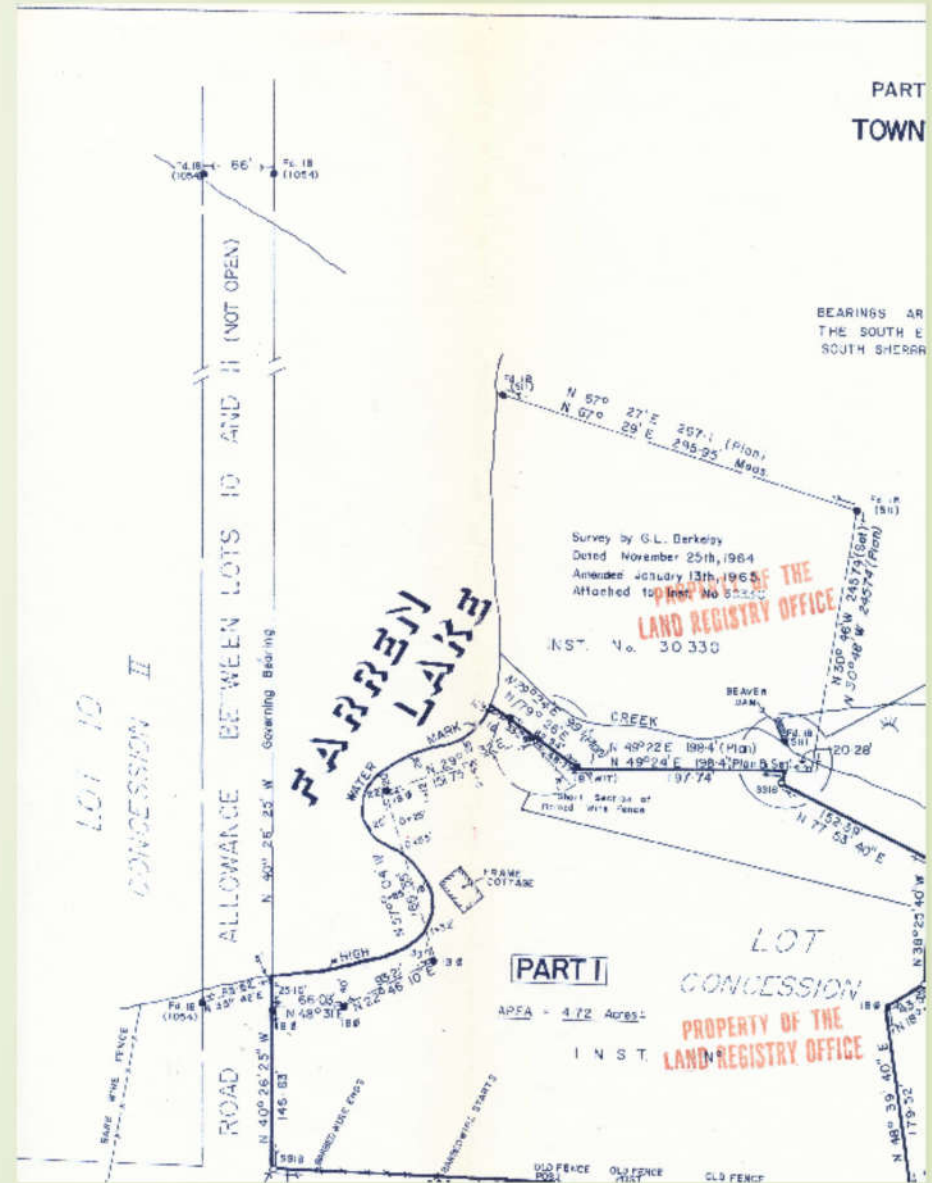
THENCE South seventy-nine degrees twenty-four minutes West (S79°-24W) ninety-nine and one tenth feet (99.1') to an Iron Bar planted in the highwater mark of the Easterly shore of Farren Lake;

THENCE Northerly along said highwater mark three hundred feet (300.0') more or less to the point of commencement.



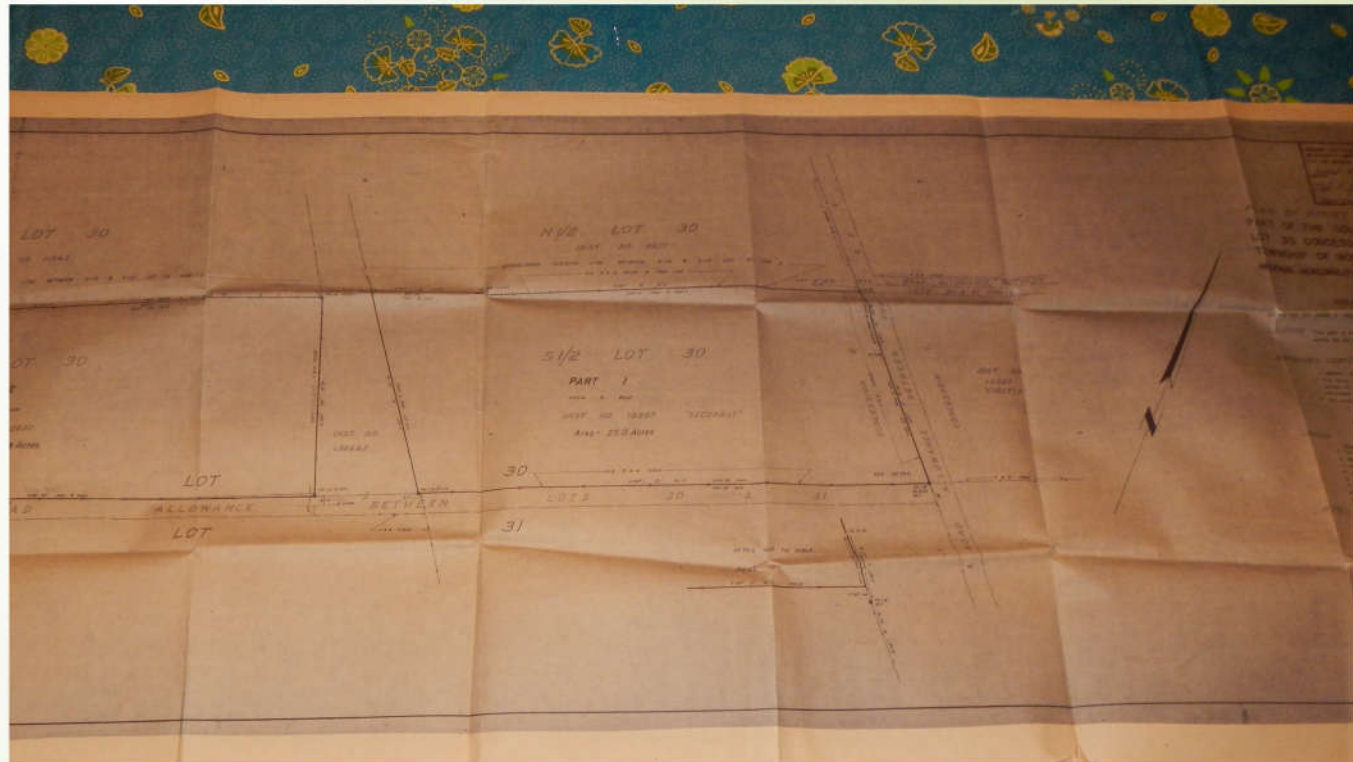
# Locating Markers - Getting the Survey Plan

- Survey Plan (After ca. 1965)



# Locating Markers

- Getting the Survey Plan



# Locating Markers

## - Your GPS Receiver

- Car GPS is awkward for this
- Portable GPS does the trick (\$100 to \$800)  
Garmin corners the market.
  - Waypoint function
  - Plot fix or Mark and plot averaging function
  - Find function
  - Advanced application – to track a line

Good enough to:

- A. help find a marker and
- B. Relocate a found marker.
- C. What it is not for: It is not a legal survey.

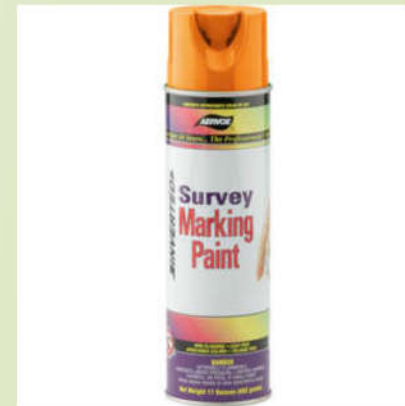




# Locating Markers

## - Handy tools I used

- Minimum 20 metre (30 ft.) tape measure
- Flagging tape
- Marker Paint (not just any spray paint)
- Compass (maybe)
- Suitable clothing





# Collecting Data

## - Handy tools I used

- GPS
- Patch cord
- Computer
- Garmin's Base Camp (came with GPS).
  - Store Waypoints
  - Store Tracks
- Plot your Tracks and Waypoints



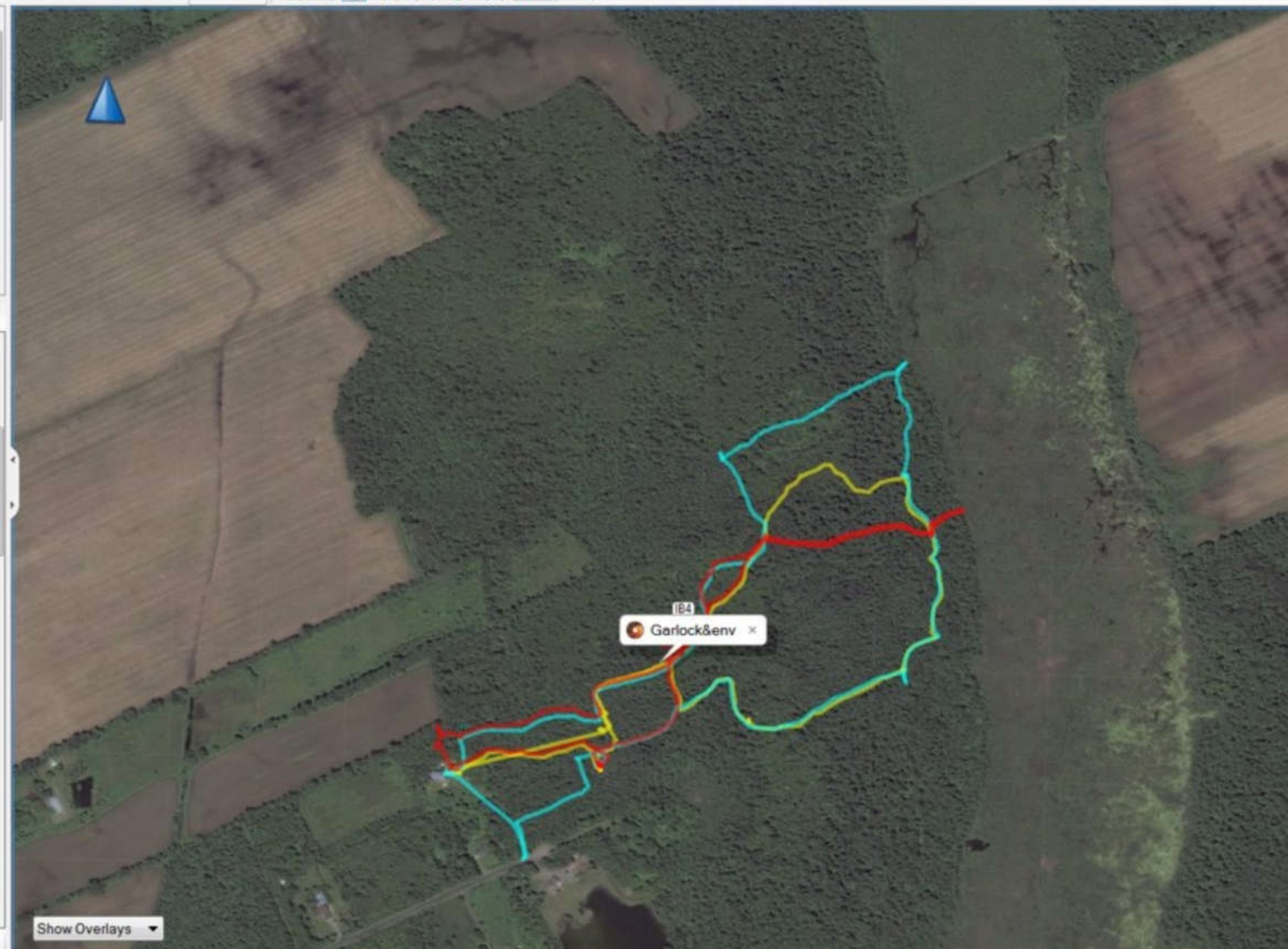
- Library
- My Collection
    - APP
      - Data received from GPSMAP 64st (Unit ID 3922874644) (E-)
        - 05/11/2017 9:53:12 AM
        - 07/02/2018 9:17:07 PM
        - 18/12/2017 1:28:13 PM
        - 18/12/2017 5:13:14 PM
      - Data received from GPSMAP 64st (Unit ID 3922874644) (H-)
      - Data received from Memory Card (I-)
      - Downloaded BirdsEye Imagery
      - Heartwood
        - Heartwood Woodlot
        - Misc

07/02/2018 9:17:07 PM

Garlock&amp;env

- IB4
  - Island
- KYBO PC
- N MacPoint R
  - N01Fd
  - N02Fd
  - N03p
  - N04p
  - N05p
  - N06p
  - N07p
  - N08p
  - N09p
  - N10p
  - N11p
  - N12Fd
  - N13Fd
  - N14FD
  - N14Fd to N16p
  - N15p2
  - N16p
  - N17fd to N20

Garlock&amp;env





THE END






But wait – There's more





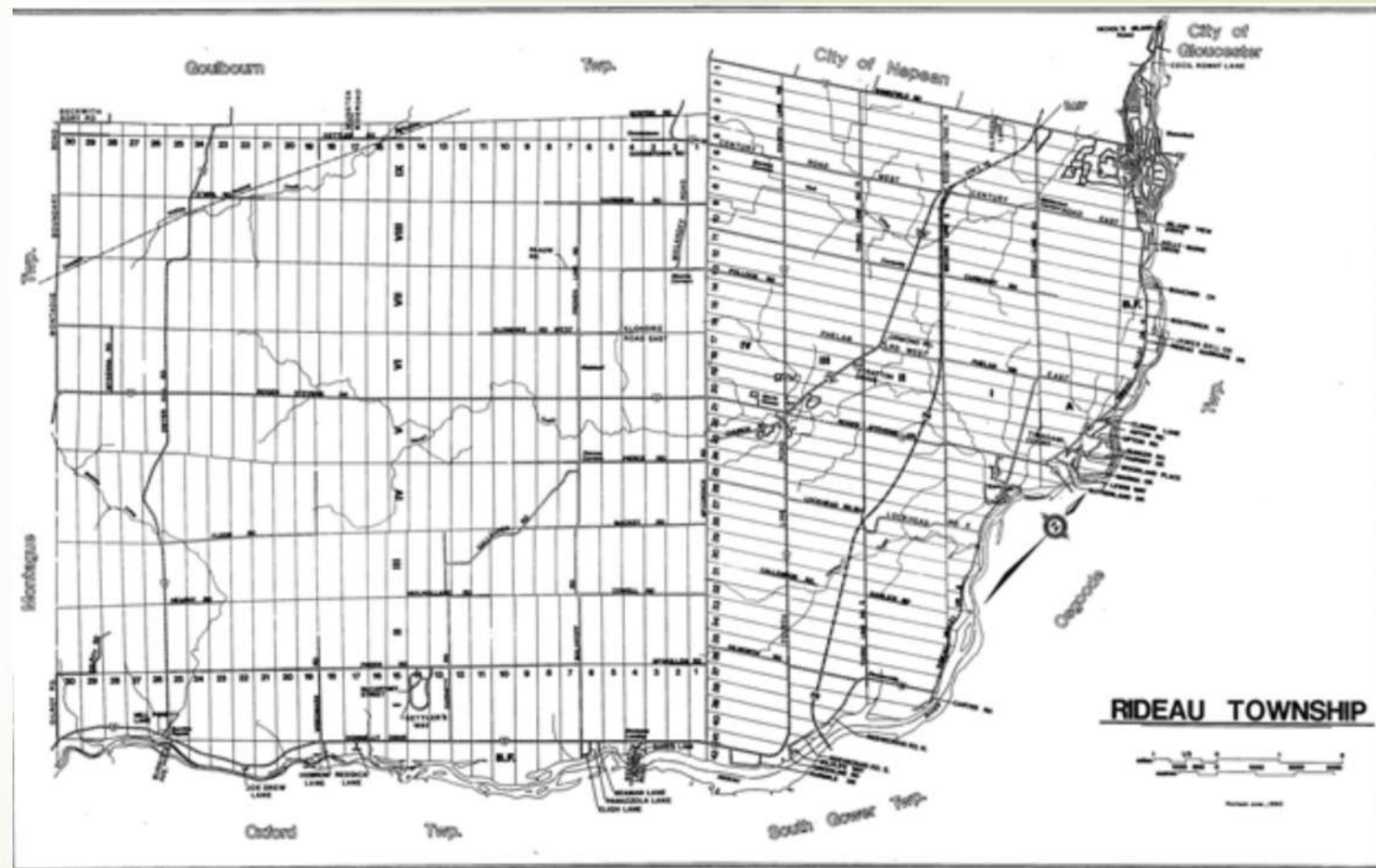


# Finding your Plot of Land

- It helps to know your Concession and Lot number.
  - Ontario's township system
  - Concessions and Lots.
    - Ontario Law: Original lots are always 200 acres
    - Unit of measure - Survey chain, 66ft, 1 square chain – 1/10 of an acre.

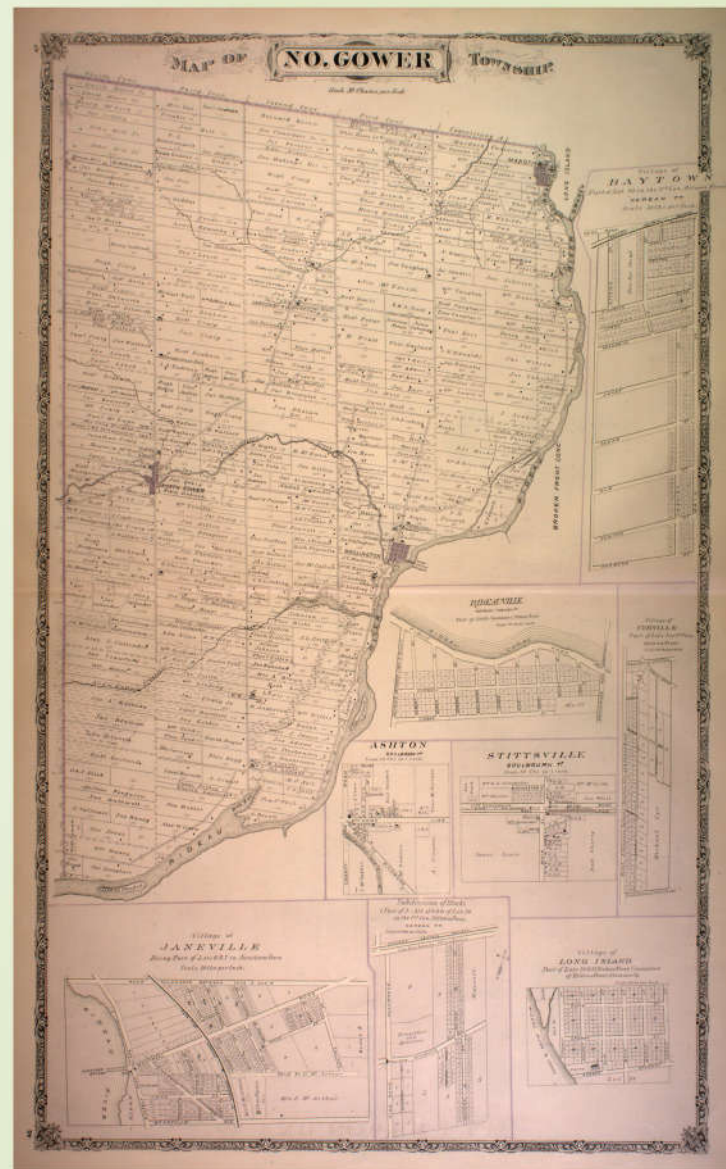
## Finding your Plot of Land

- Carleton County (now City of Ottawa) convention in Rideau Township Lots are 20 chains by 100 chains.



## Finding your Plot of Land

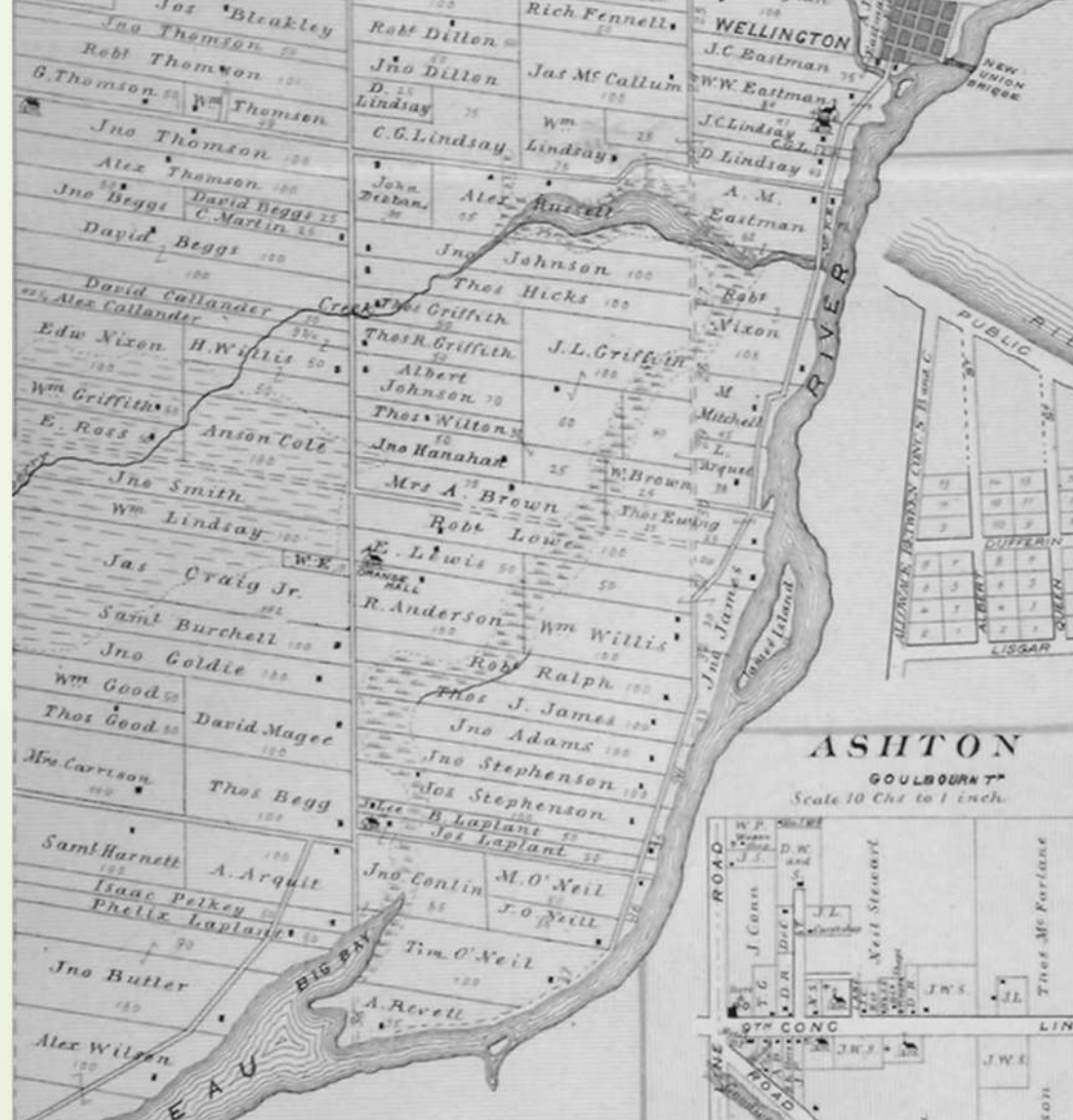
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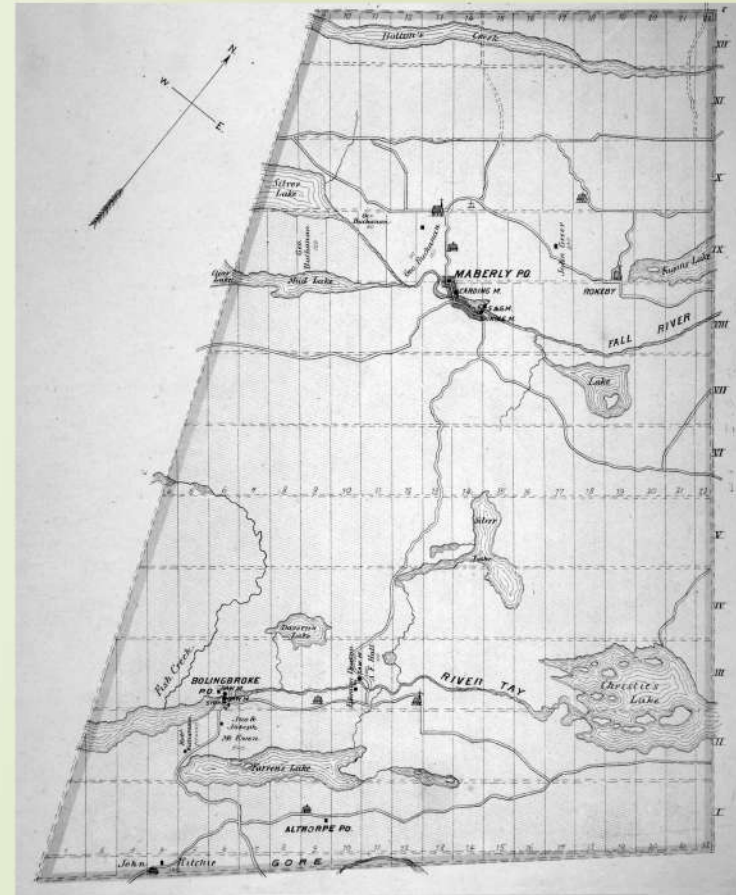
- In Lanark County, Lots are 30 chains by 66 2/3 chains.





# Finding your Plot of Land

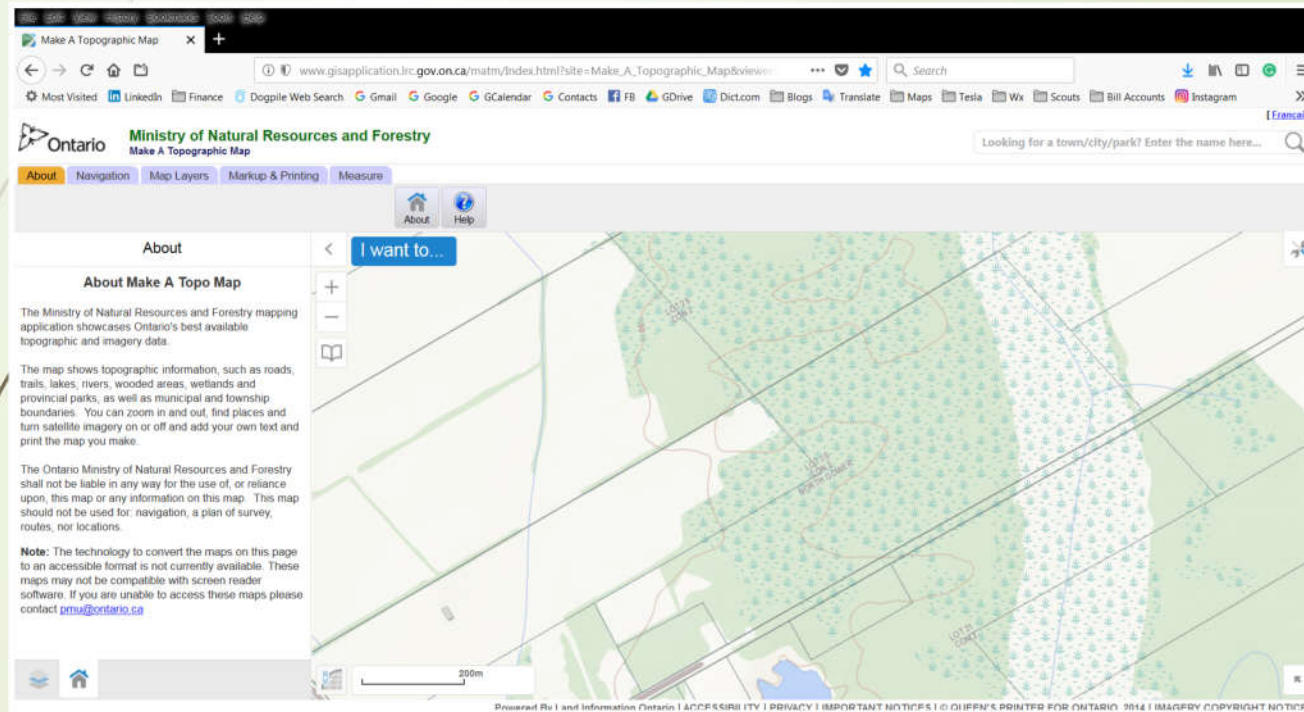
- In Lanark County Lots are 30 chains by 66  $\frac{2}{3}$  chains.
- South Sherbrooke Township



# Finding your Plot of Land

On-line Tools

- http://www.gisapplication.lrc.gov.on.ca/matm/Index.html?site=Make\_A\_Topographic\_Map&viewer=MATM&locale=en-US



# Finding your Plot of Land

## ■ On-line Tools

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## ■ Scout Camp Opemikon





# Finding your Plot of Land

➤ On-line Tools

➤ Scout Camp Opemikon

