Where am I anyway? Map-reading & Orienting in the Field

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Where do I start? Gathering Information & Resources

 What property-specific information do you already have? Deed? Easement? BDR? Survey Plan?

Find a location reference.... Street address? Plat & Lot? Legal description?

- Does your town have GIS? What do you do if they don't?
- What do you do if you don't have a survey plan?

Other Resources:

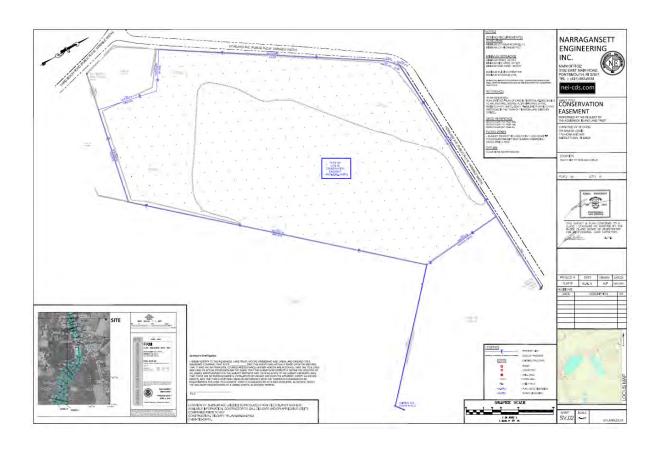
- Google Earth Pro
- RIGIS / RI Digital Atlas
- RIDEM Resource Maps
- Your Town Hall!
 Land Evidence Records, Grantor-Grantee Index,
 Plan Books

Why Survey?

- Title/Standard Title Exceptions/Removal of Survey Exceptions
 - "Easements or claims of easements not shown by the public records."
 - "Encroachments, overlaps, boundary line disputes, or other matters which would be disclosed by an accurate survey or inspection of the premises."
 - Replaced with specific survey exception for matters specifically shown
- Foundation of Baseline Documentation and Due Diligence
 - > Establish adequate access
 - ➤ Verify Encroachments
 - ➤ Verify Significant Natural Features



Introduction to Survey Plan – What to Look For





Types of Surveys

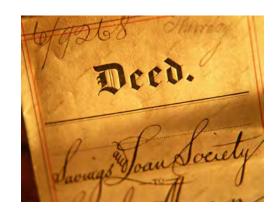
- Types and Classes of Surveys
- ALTA Survey This is one of the most detailed surveys available, often at a greater cost than other survey types. An ALTA Survey shows the boundaries of the property, the location of improvements on the subject property, including any and all structures, fences, utility lines, roads, etc., along with the location of any/all easements.
- Comprehensive Boundary Survey to state standards – Class I measurement/accuracy standards
- Class D Survey based on land evidence research only with no investigation in the field.





Types of Legal Descriptions

- Metes and Bounds Description Example:
 "Thence turning an interior angle of 181º-03'-21"
 and running southerly, along a stonewall, for a
 distance of one hundred twenty-one and twenty one hundredths (121.21) feet to a drill hole; said
 last two courses bounded westerly by land now or
 formerly of Christopher Harkins;"
- <u>Boundary Description</u> Example "Bounded Northerly by land of Samuel L. Jackson a distance of one hundred twenty and 00/100 feet"
- <u>Platted Description</u> Example: Being Lot 6 on the ABC Subdivision Plat . . .
- <u>US Government Survey System Description</u> Example: "The Northeast Quarter of Section 2,
 Township 23, Range 16, Hennepin County,
 Minnesota"

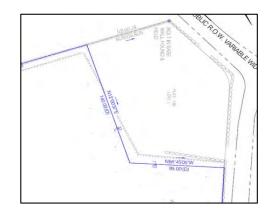


Legal Description and Survey Description

The historic legal description may vary from a new survey description or even an old survey map or description. What do you do?

- If possible look to the surveyor to resolve the discrepancies
- If he/she will certify that the land as described in the survey is the same as that described in the deed than title company will issue a "Same As Survey Endorsement".
- It is typical for linear measurements to very from time to time or from one surveyor to the next due to magnetic deviations in true north and in measurement accuracy deviations. If descriptions are roughly the same when you run them you are probably safe.





Most important thing is does property close.

Legal Description and Survey Terminology (See Handout)



Planning Your Attack

- Do your research Use the Resources to plan your visit – What do you have?
 - Survey? Aerials? Parcel Map Overlay? BDR? Access Info?



Planning Your Attack

- Think about:
 - Legal Access, Route, Barriers, Neighbors, Plan if Lost, How will you navigate





Planning Your Attack — Other Tips

• Time of Visit, Coordination, Safety



What to Always Bring

- Maps!
- Attire/equipment that suits the property
- Documentation/Monitoring Paperwork
- Compass (go for the real thing over a phone app)
- Phone and if you are techsavy GPS apps



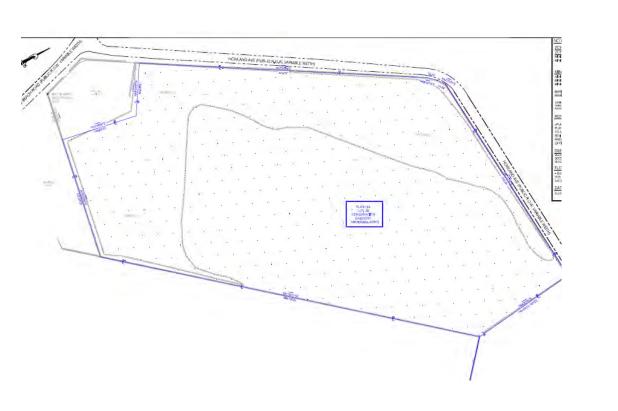
How to Stay on Track/Navigate in the Field

What Features will you recognize in the field?

How to Stay on Track/Navigate in the Field

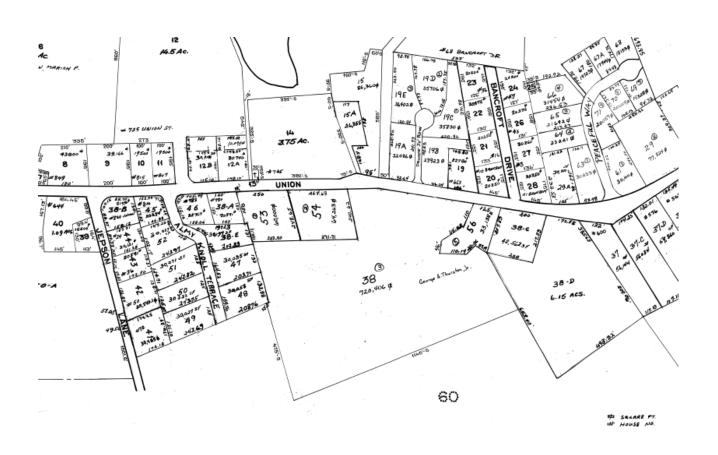
- What Features will you recognize in the field?
 - Stone Walls
 - Trees
 - Land Cover Types
 - Houses/Structures on property or neighboring
 - Driveways/Farm Roads
 - Water Bodies, Streams
 - Utility Easements/Cleared Lines
 - Access Points
 - Boundary Markers from Survey

Using Surveys and Plat Maps





Using Surveys and Plat Maps



Using Aerials



























Oh no!! Despite my best plans I am lost!! What shall become of me?!



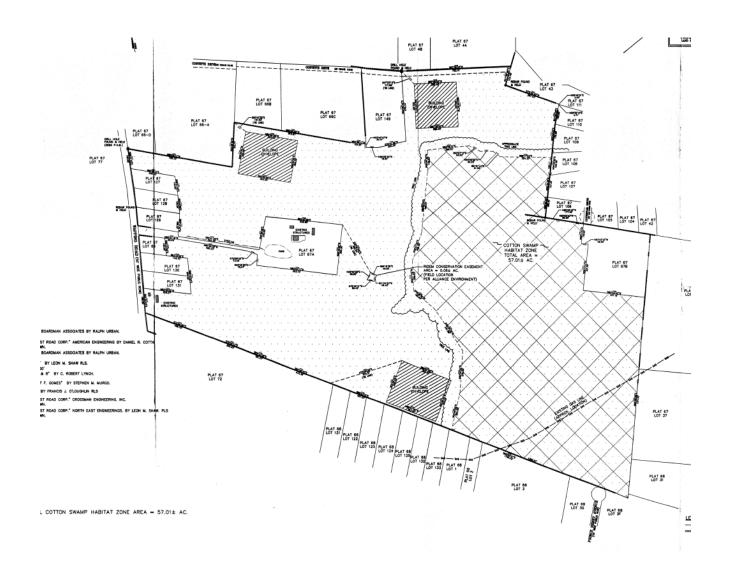
Record your route or tips for the next person!

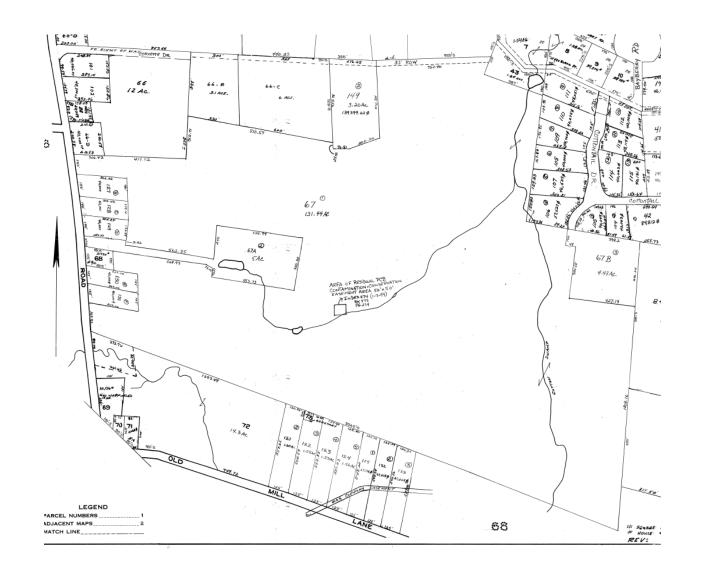


Practical Exercise











Phone Apps, Drones, and More

- Mobile Apps to Collect/Map data and Photos:
 - Ex) ArcCollector, GaiaGPS
- Specialty software like LANDSCAPE
- Tablets, Off-Line Capability
- Drone Monitoring
- ArcGIS.com





