A Simple Approach to Mobile

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My Goals

- I'm a local GIS Guy
- I want to make it easy for our mobile workforce to
  - Access Maps
  - Get Info
  - Solve Problems

Does Mobile Technology *Really* Work?

- 5 Years ago: **NO**

I'm not as cool as this guy.
You'll find him at http://www.flickr.com/photos/29881930@N00/2086642192

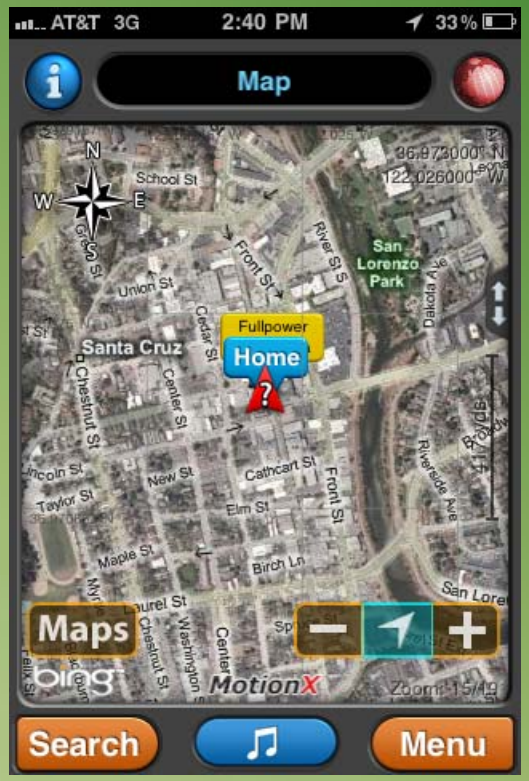
Image from the Facebook "I Hate Toughbooks" group. Exactly.

Does Mobile Technology *Really* Work?

- 2 Years ago: **Kind of**

Consumer-based map apps become popular in smart phones

iPhone Maps App



iPhone MotionX GPS App

Does Mobile Technology *Really* Work?

- Now: **YES.**

  - My Map.
  - My Live Data.
  - No Syncing.
  - App Development Optional.

Amherst Open Work Orders Map on the ArcGIS iOS App

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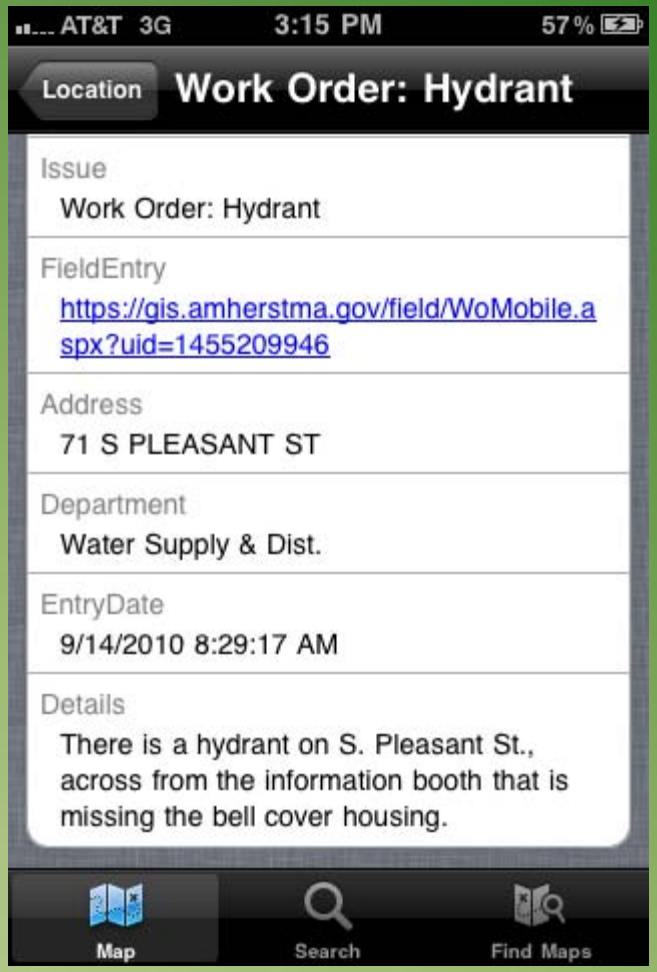


Amherst Open Work Orders Map on the ArcGIS iOS App

Does Mobile Technology *Really* Work?

- Now: **YES.**

Features linked to my own home-cooked data entry pages.

Simple & secured data entry page for closing/updating work orders.

Finally…

- I can avoid all the things that I used to hate about mobile technology
  - Clunky interfaces
  - Using a stylus
  - Clumsy sync routines

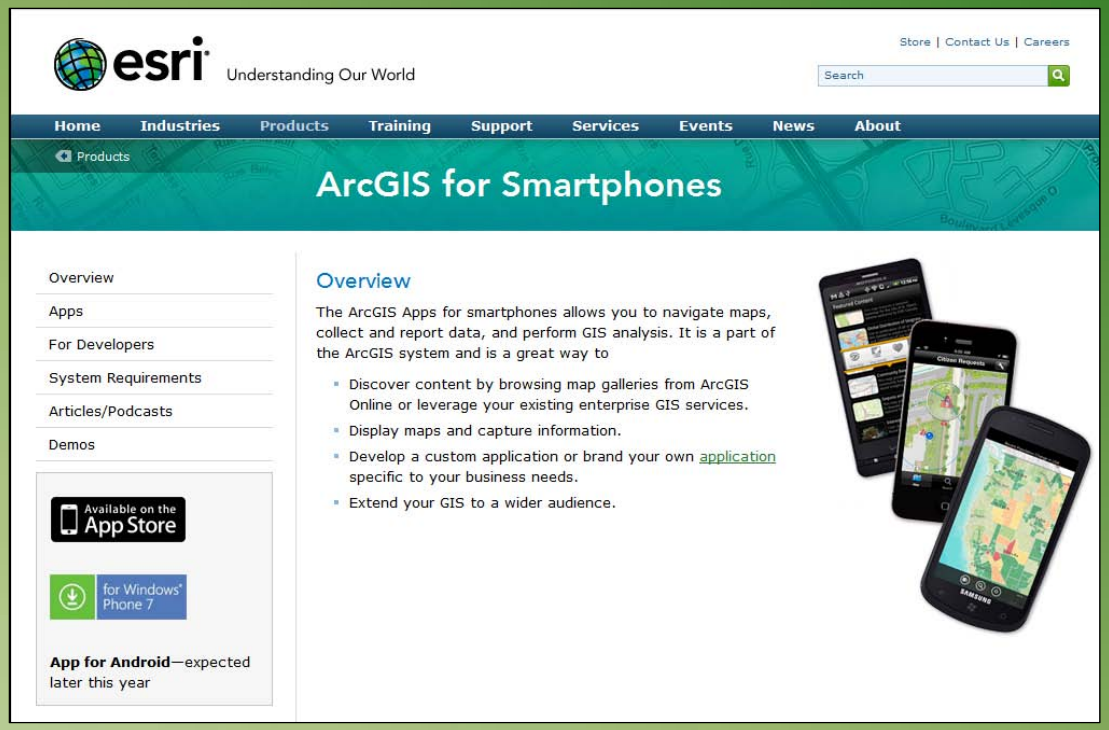
WOW! PAINT on Windows CE!!!

What has made the difference?

- Apple, Google & Microsoft have learned how to make mobile GUIs that are easy to use
- Data Plans
- Bandwidth-Optimized Tiled Map Services

What has made the difference?

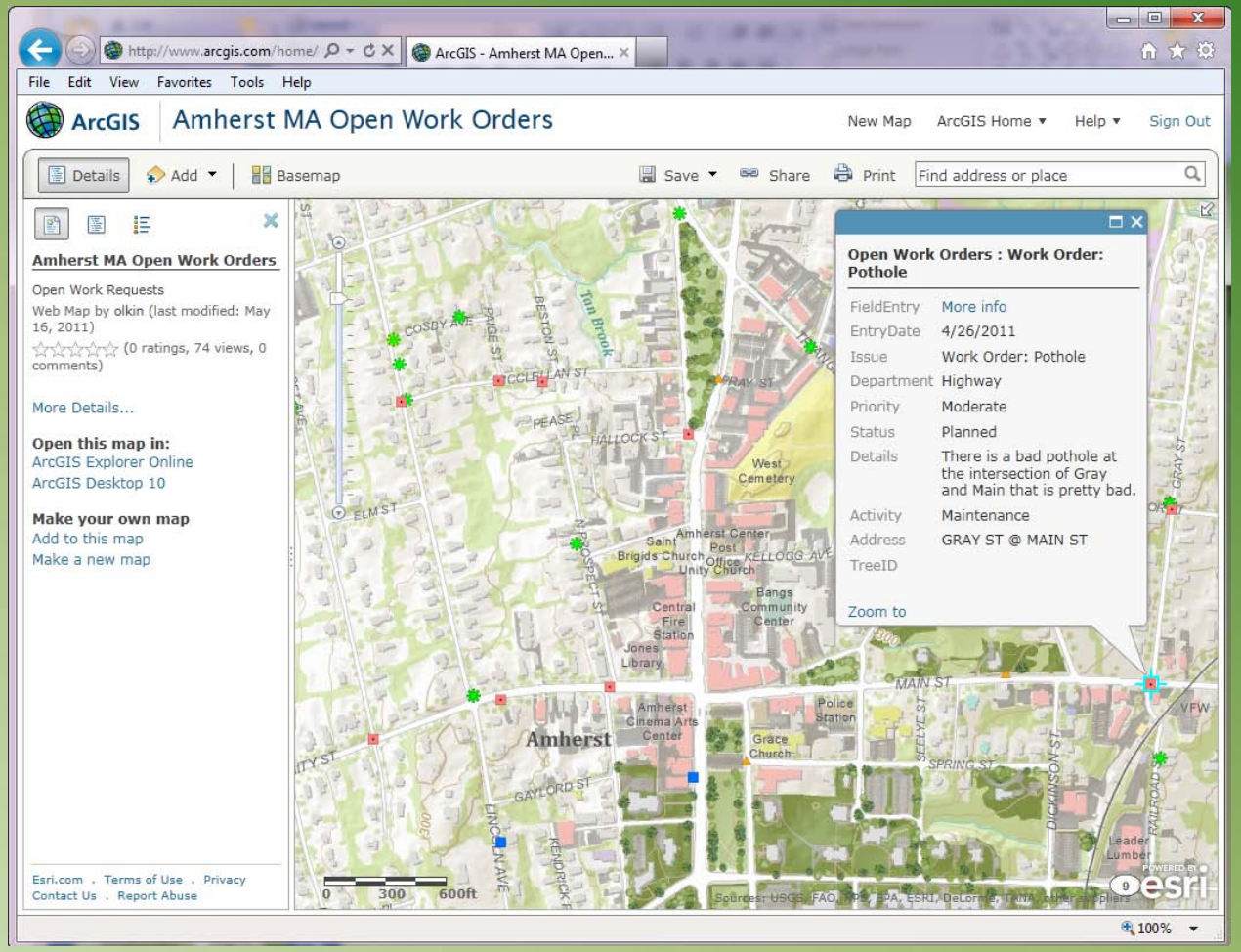
- ArcGIS for Smartphones
  iOS, Windows Phone & Android (soon)
  - Free
  - Integrated with ArcGIS.com
  - Simple



http://www.esri.com/software/arcgis/smartphones/

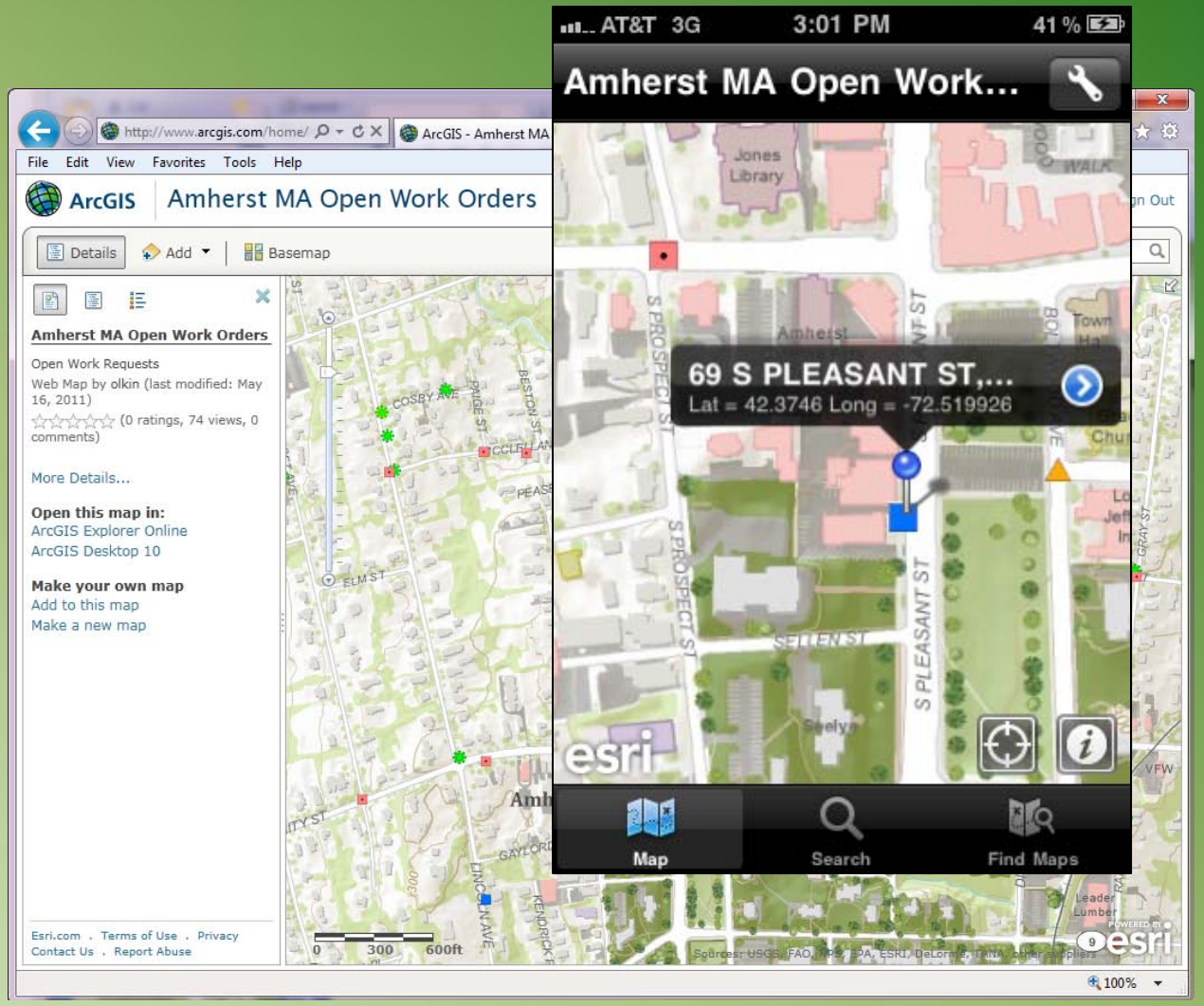
Simplest way to make a mobile map

- Publish an ArcGIS Server map service
- Author a map in ArcGIS.com
  - Optionally, secure it.



Simplest way to make a mobile map

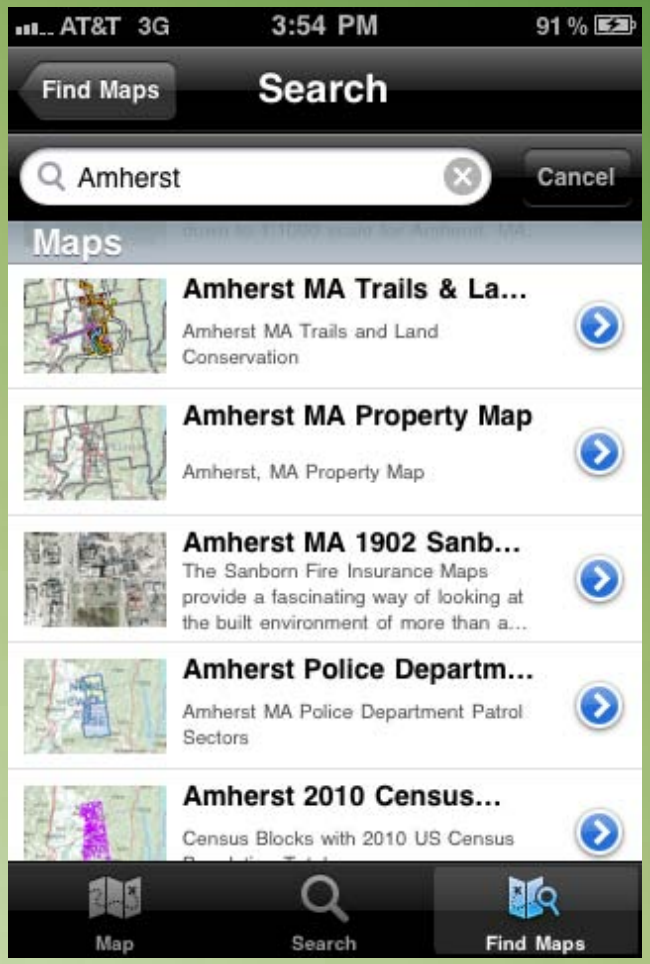
- Voila, it's in your phone or tablet.



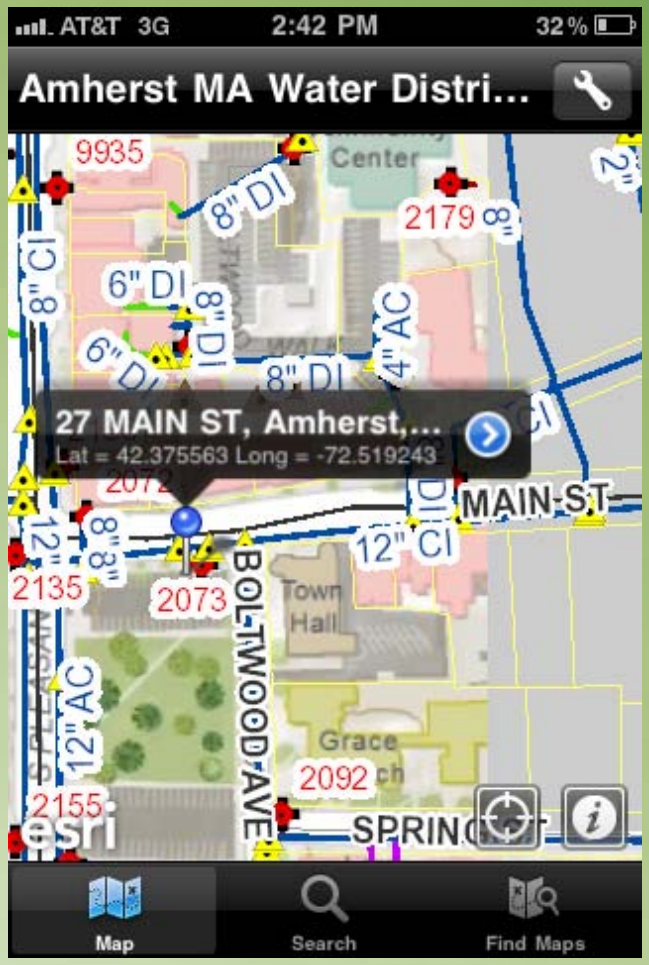
Yes, but…is Map Caching Necessary?

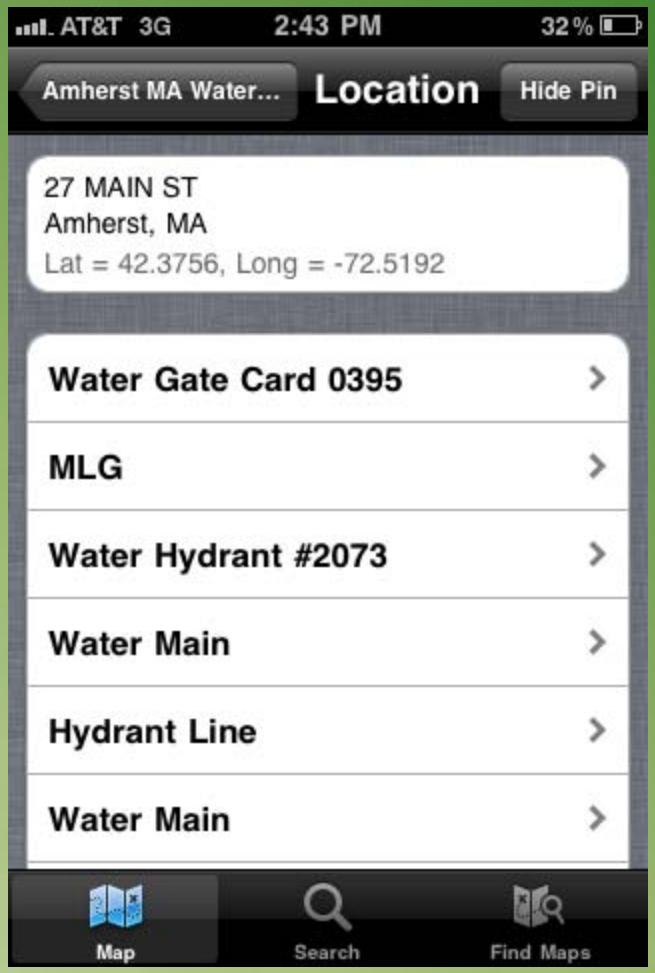
- Desirable, yes. Necessary, no.
- We generally don’t cache our maps.
  - Dynamic content, constantly changing.
- Basemaps are cached

Some of our maps



Utilities & Associated Documents





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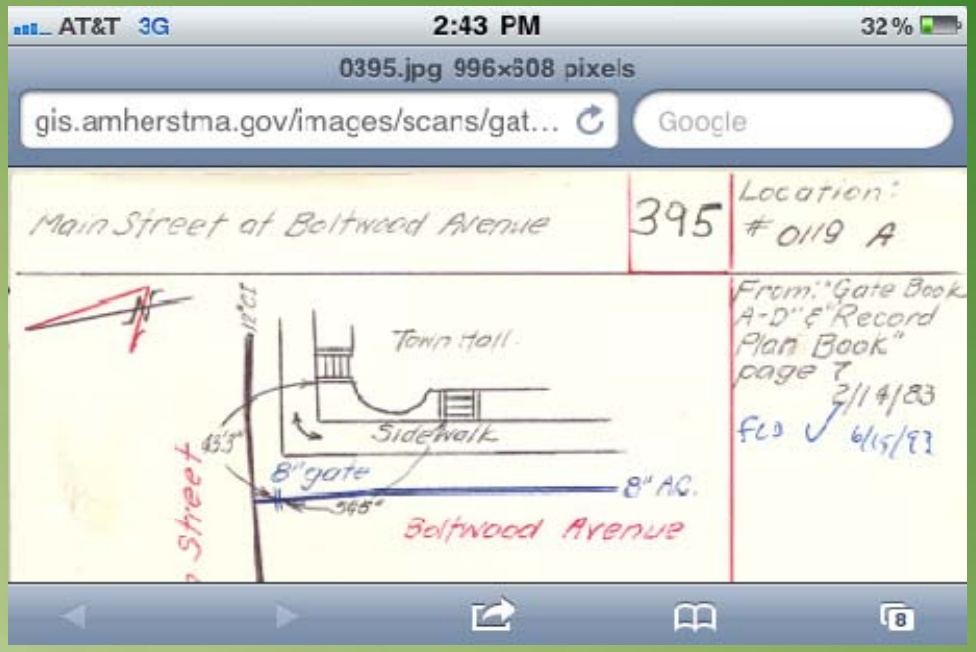
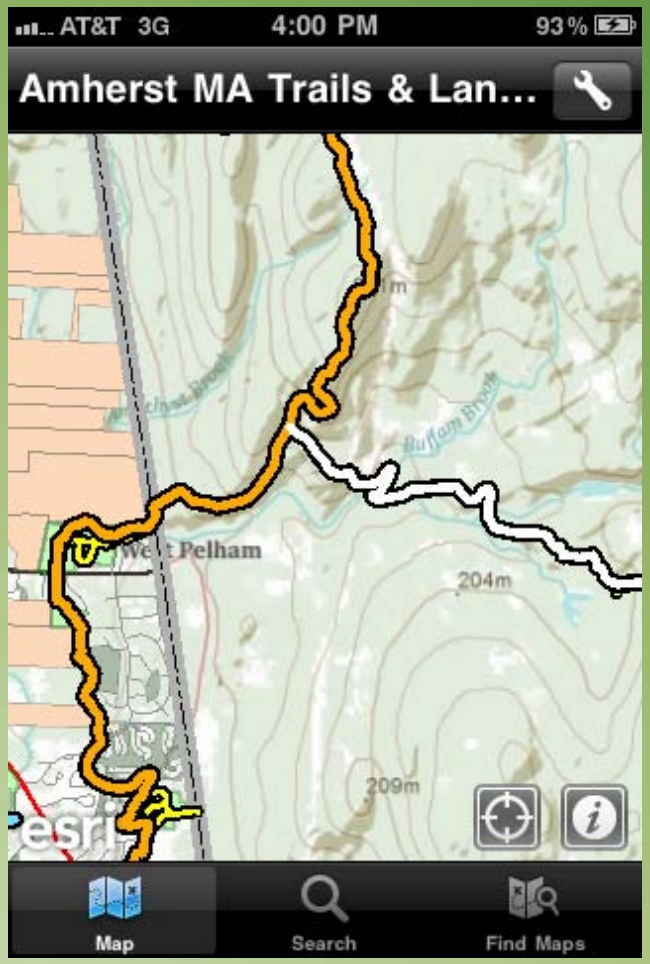
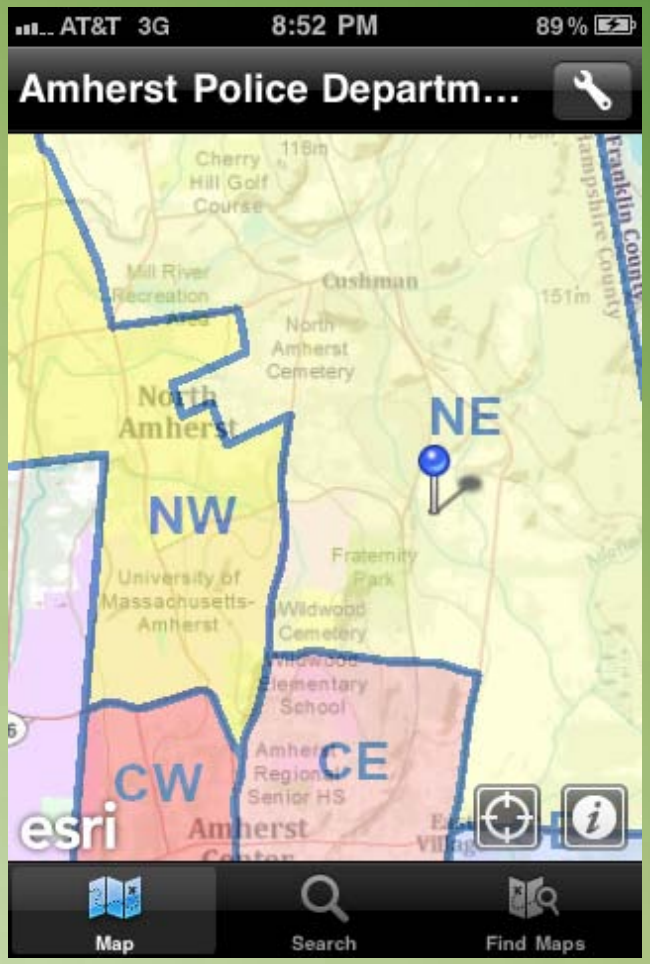


Gate Card

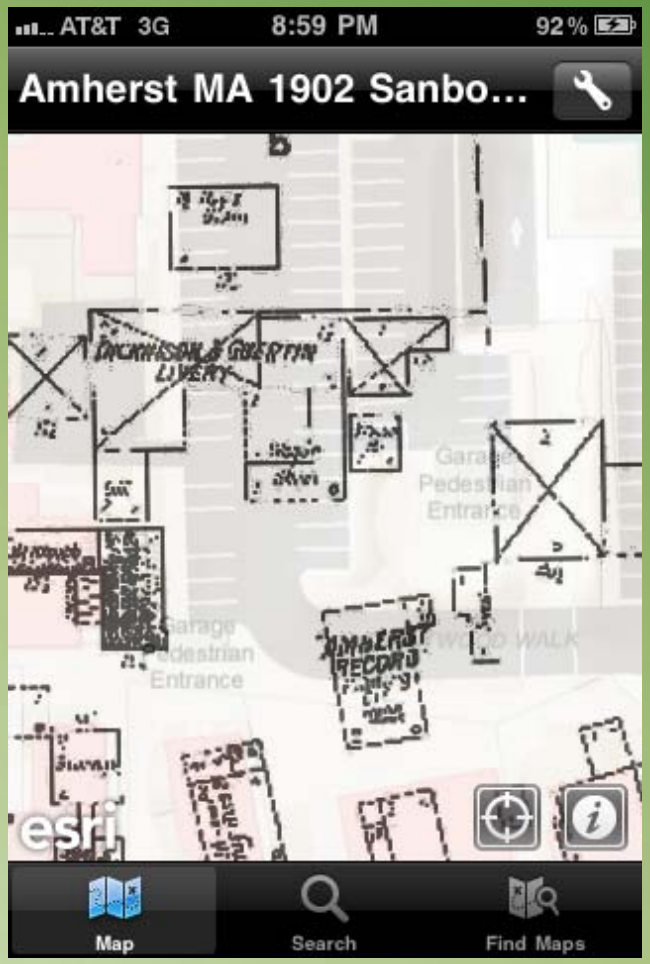
Trails & Land Conservation



Police Districts



1902 Sanborn Fire Insurance Map



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