Welcome to AxisGIS!

AxisGIS is an Internet-based mapping service for communities and businesses that want to publish their GIS online. AxisGIS is helping communities share their parcel data which enables homeowners and real estate professionals to query, browse, report and print maps from their own computers. This easy to use online GIS supports a variety of municipal functions, provides a platform for police and school collaboration, and creates a connection between town government, local businesses, and communities.

Contents

Welcome to AxisGIS 1

Contents 1

Home Screen 3

Search 4

Search Results 6

Abutters 8

- Find Abutters 8
- Reports 11

Layers 11

Parcel Details Window 13

- Additional Tools 14
- Zoom In 14
- Zoom Out 14
- Identify 14
- Zoom to My Location 14

Zoom to Full Extent 14

Previous Extent 14

Next Extent 14

Share 14

Switch Basemap

16

Areas of Interest

16

Measure

17

Draw Tool

17

ArcGIS Online

19

Print

19

Documentation

20

Feedback

20

Disclaimer

20

Editor

21

Advanced Queries

25

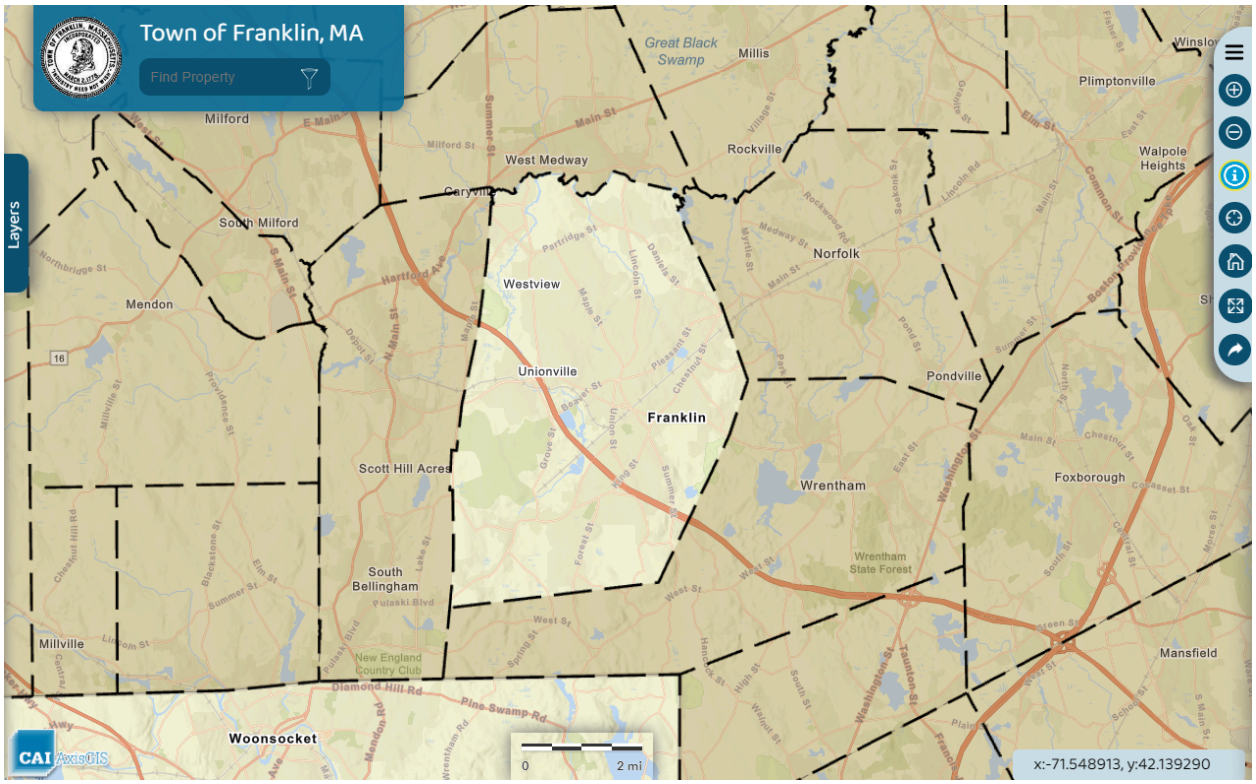
Coordinate Tool 26

Frequently Asked Questions 27

Resolving Pop-up Blocker Issues in Internet Explorer 29

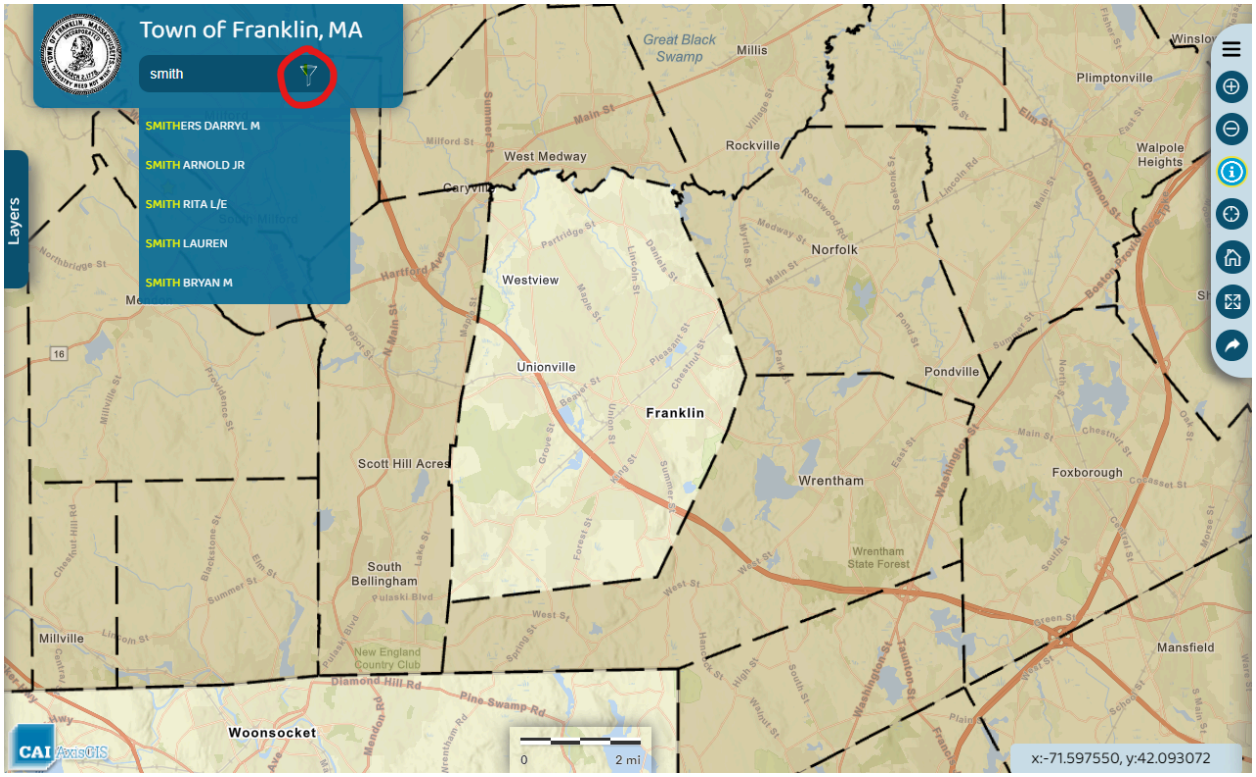
Resolving Pop-up Blocker Issues in Google Chrome 30

Home Screen



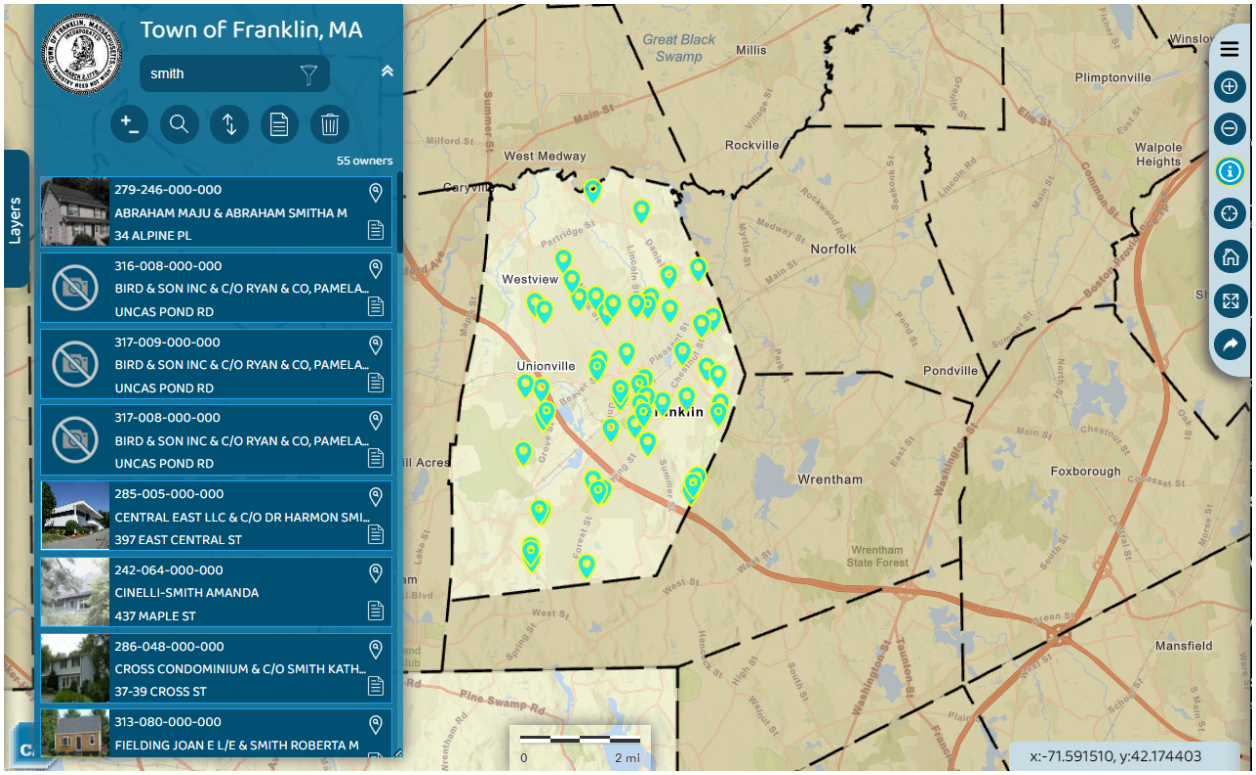
Click the Layers tab on the left, buttons on the right or search criteria on the upper left to begin using the site.

Search



To find a parcel on the map, click in the search box and begin typing the name of an owner, address, or parcel ID. As you type, any matching results will be displayed beneath the search box. Notice the results have the text “Smith” highlighted in yellow.

Once the search criteria is entered, click the search filter button in the search window and pushpins will be added to the map displaying the results.



As a general rule, "less is more" when searching. This means if you are not getting the desired result from your search, try entering less text for the search criteria. The results returned depend on a match existing in the tax assessor's database, which is subject to human error and variations in data entry.

Selecting any of the results of the search will bring up a separate **Search Results** window. The user can also Click directly on a parcel in the map display and bring up the same **Search Results**.

Helpful hints:

Owner: Start by typing the owner's last name. In many client databases, the first name can be included after a space. Ex: Smith Joe

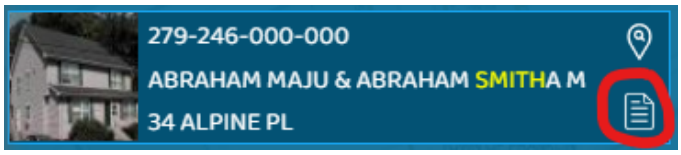
Address: It is often better to search without the street suffix due to variation in abbreviation practices. Ex: Search "Oak" instead of "Oak Street" or "Oak ST".

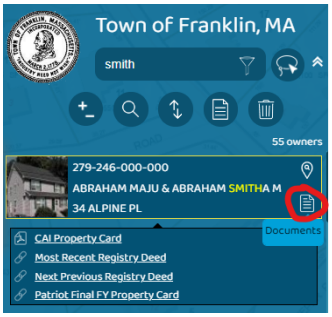
Parcel ID: Become familiar with the format of the town's Parcel ID to successfully find parcels by ID. To improve search results, padding with zeros is often implemented. Take note of the format of the Parcel ID noted below the search text box before you begin typing.

Search Results

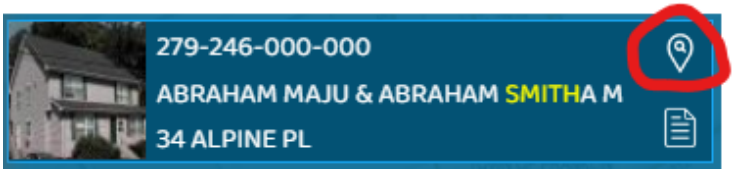
From view the results of the search, you have three options:

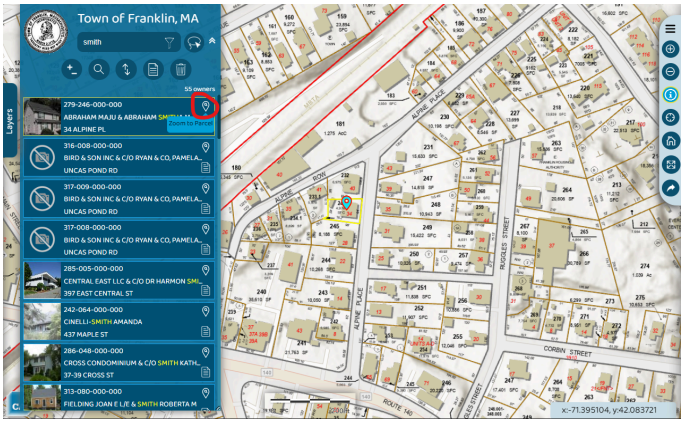
1 Select the documents icon on the lower left of any of the search results and any related documents associated with that parcel will be available



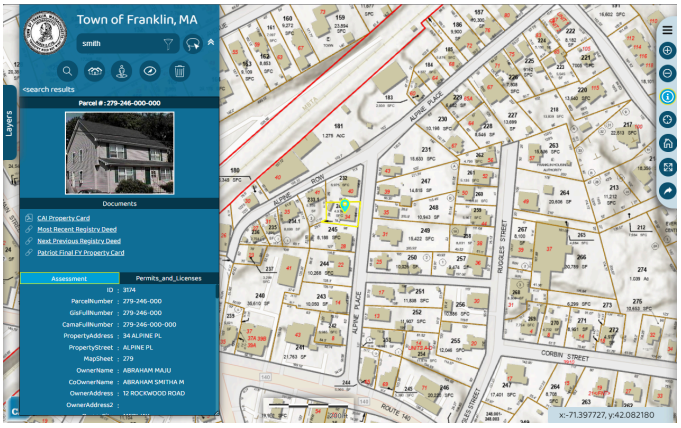


2 Select the “Zoom to Parcel” and all the search results will remain but the map will zoom to the parcel



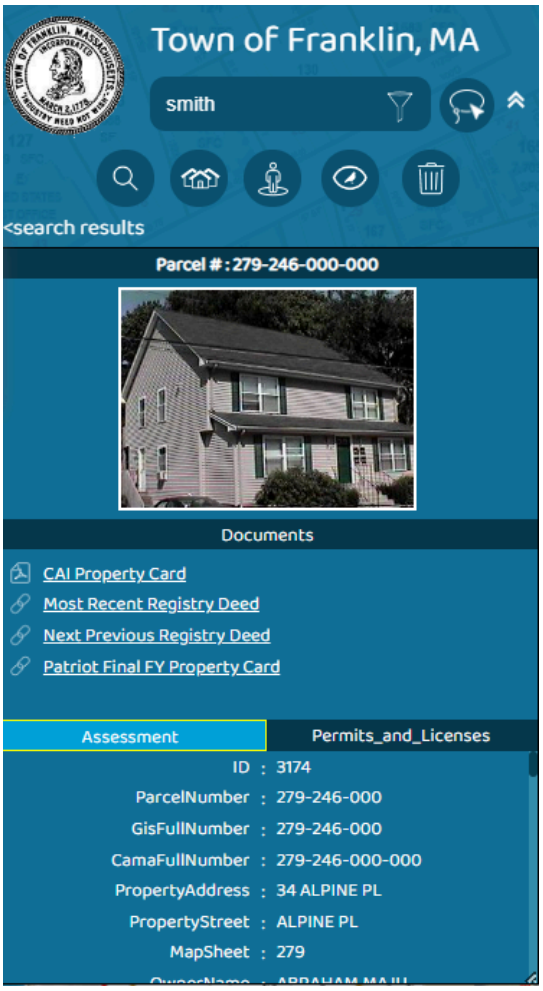


3 Click directly on one of the results and the map will zoom to the parcel and any information associated with that parcel will be viewable within that window



Click the <search results> to return back to your original search query

Click the image to enlarge the photo



Abutters

Find Abutters

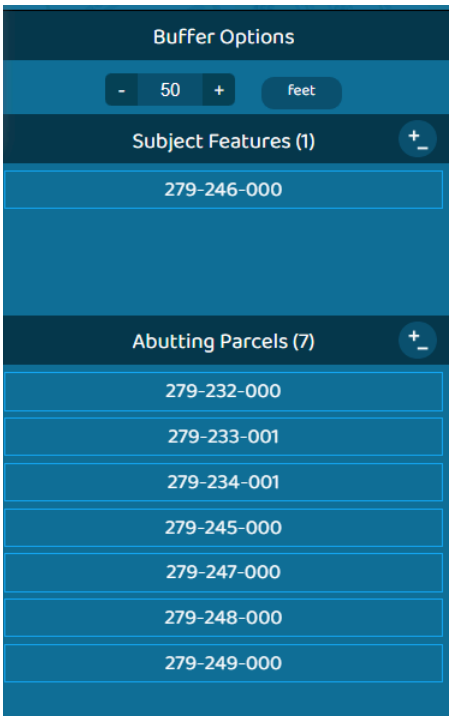
To find abutters of a parcel do one of the following:

1) Click on the map to identify a parcel, or

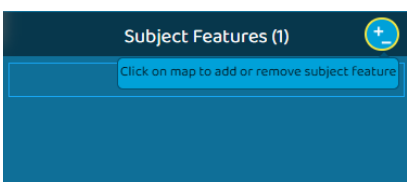
2) Use the Search Tab to search for a parcel. Notice all parcels matching the query are identified with a push-pin on the map.Click on one of the records in the search results list to select the subject parcel, zoom to the parcel, and display the Parcel Details Window.

Click on the “Abutters” tool to display the abutters tools as shown below:

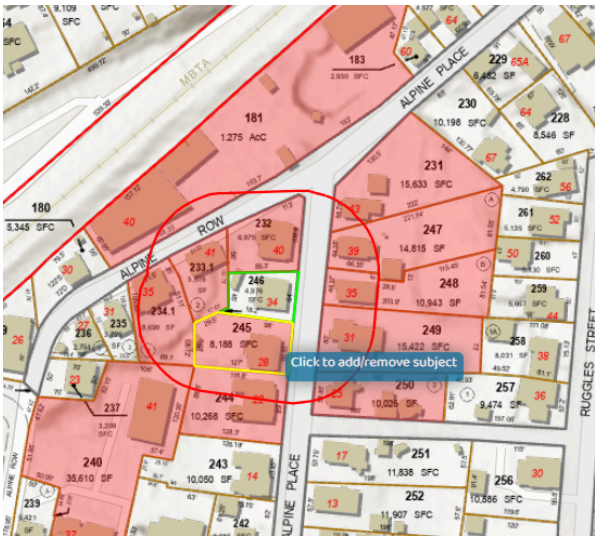
Once selected, the abutter options become available:

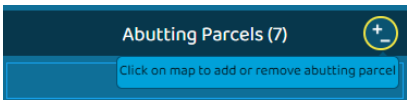


Change the buffer distance and the map will display the parcels within the specified distance. Toggle between feet and meters for your abutter distance.

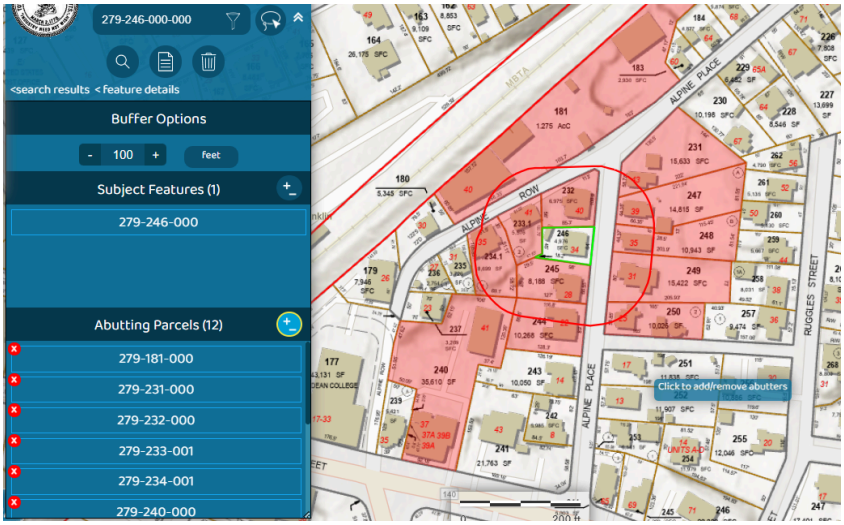


Additional parcels can be added to the selection allowing abutters of multiple parcels by selecting the +- button next to the “Subject Features”





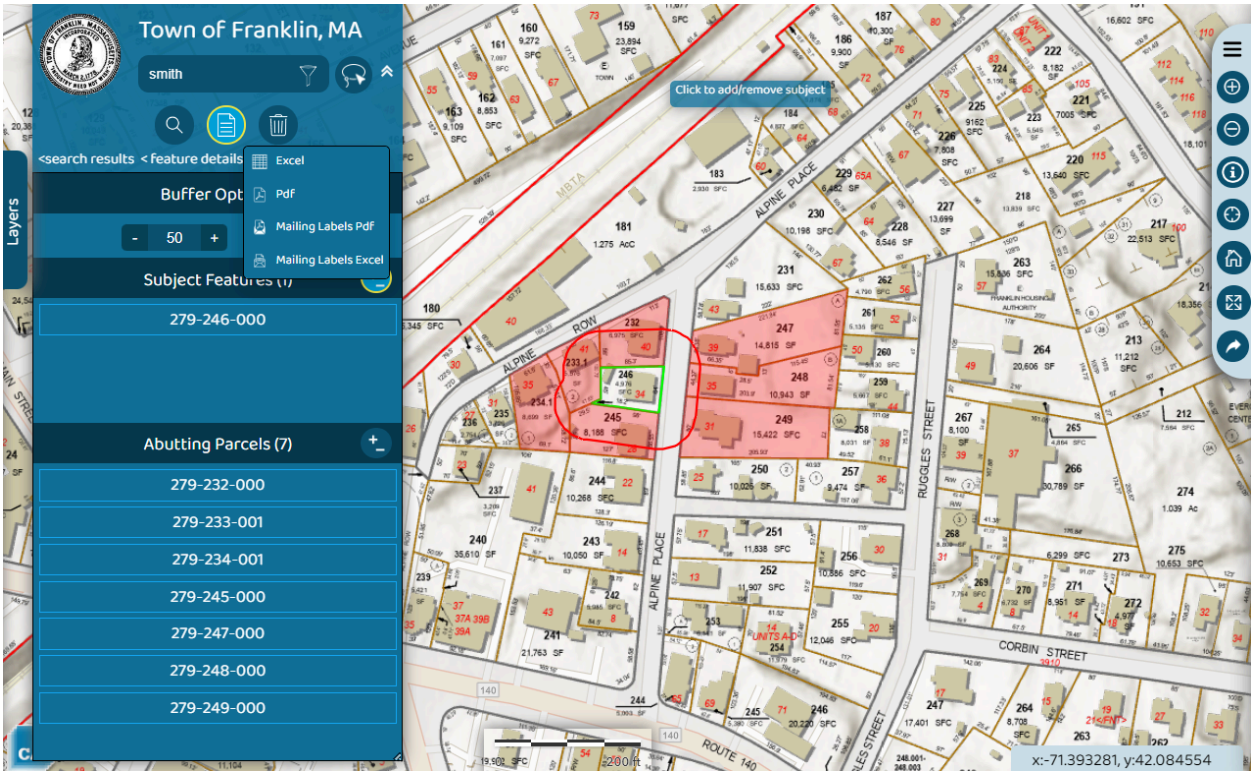
Once the abutters are selected additional parcels can be manually added to the results by selecting the +- button next to the “Abutting Parcels”



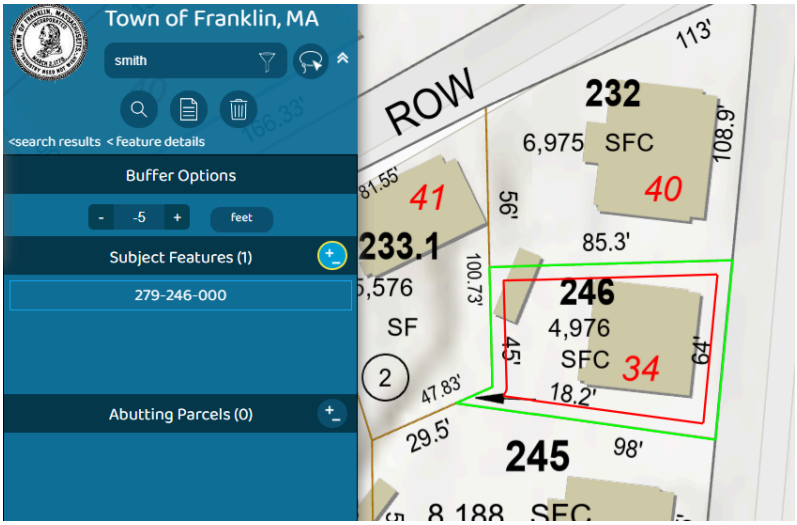
From here the user can interactively click on parcels on the map to add or remove them from the abutter selection.

Clicking the next to the selected abutters from the list will also remove those parcels from the abutter selection.

Once the parcels have been selected for the abutter list, they can be exported in various formats:



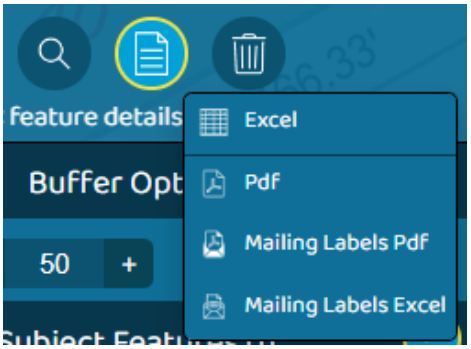
Note:



When a negative number is entered for the buffer distance, an interior buffer line will be drawn at the specified distance along the boundaries of the selected parcel. This interior buffer line can be helpful when evaluating the proximity of map features to parcel boundaries.

Reports

After selecting abutters, reports can be created for abutters and mailing labels. Reports are available in MS Excel, PDF and Mailing Label formats.

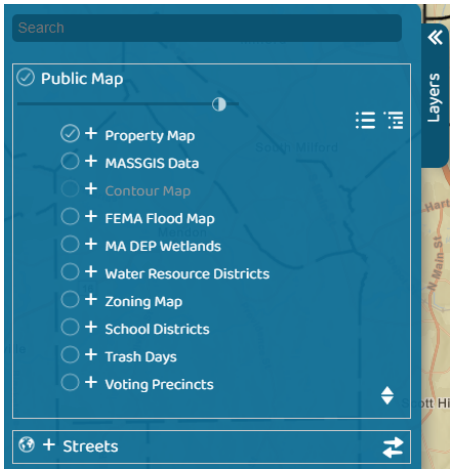


The mailing labels are designed to fit the Avery 5160 label template. If you find that the labels do not line up, try changing your print settings to:

Scaling = "None"
Uncheck "Auto-rotate and Center"

Layers

The Layers tab along the left of the screen allows the user to turn on and off certain layers and view a legend of symbols used to represent each feature on the map. Click the circle next to the group layers to turn them on/off. A check mark indicates that the group layer is turned on.



Click on the + to the left of each layer name to expand the legend for each layer and display the symbols used on the map as shown below. Click the circle checkbox next to the individual layers to turn them on/off. A check mark indicates that the layer is turned on.

Use the slider bar under the town name to alter the transparency of the map data.

The Expand and Collapse buttons here will either expand all map layers in the table of contents, or collapse them all.

Note: Layer availability varies for each town, and not all layers can be turned on and off at all scales. If a layer name is grayed out, the layer is not visible at the current scale.

AxisGIS offers multiple underlying streets, basemaps and imagery. The default is called World Hillshade and World Streetmap. Like the other layers, the transparency can be modified via a slider. Expanding the “Streets” brings up the transparency slider, as well as opening up the Basemap tool allowing you to change the underlying basemap.

Parcel Details Window

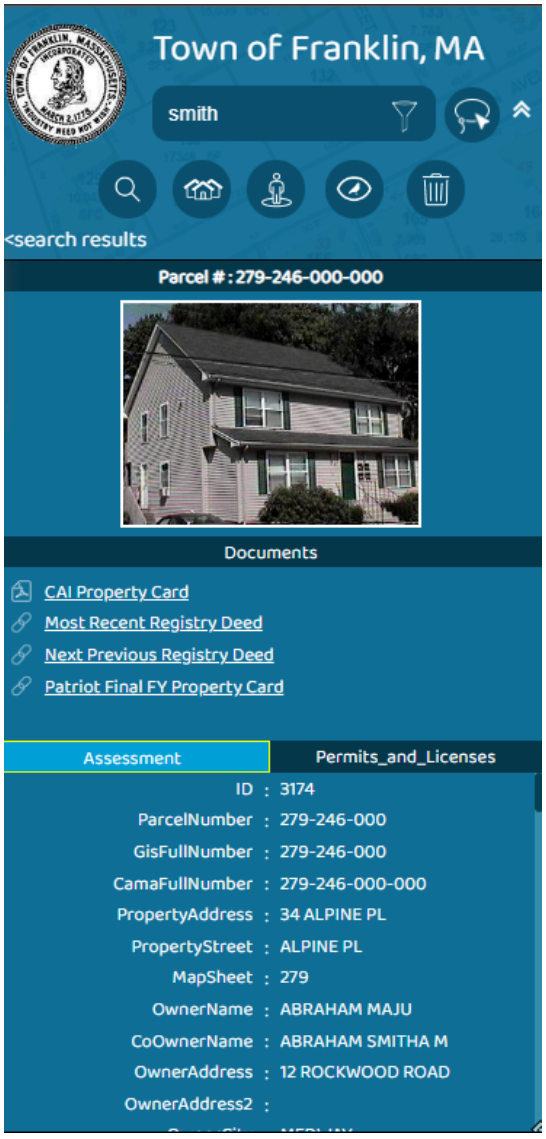
The Parcel Details Window displays owner information from the town's linked Assessment data for a selected parcel. To see the information for a parcel, the user can either perform a search for a property or use the Identify Tool:

Once you've selected a parcel 4 additional tools become available. Abutters, Street View, Bird's Eye, Clear

The parcel details window will display the primary photo here.

Any other documents associated with the parcel will also be available here. Selecting any of these documents opens up in a new tab.

Also any tables that are associated with the parcel will be available on the bottom section of this window. You can toggle between those tables and scroll through the data.



Additional Tools

Selecting this will open a pane with additional tools/functionality in AxisGIS

Zoom In Tool

Click on the Zoom In Tool to zoom in a single scale level on the map.

Zoom Out Tool

Click on the Zoom Out Tool to zoom out a single scale level on the map.

Identify Tool

Click on the Identify Tool and then click on the map to display the Parcel Details Window for the selected parcel.

Zoom to My Location Tool

When using a GPS-enabled device, click on the Zoom to My Location Tool to zoom to your position on the ground.

Zoom to Full Extent Tool

Click on the Zoom to Full Extent Tool to zoom to the full extent of the town.

Previous Extent

Click on the Zoom to Previous Extent Tool to zoom to the previous extent saved in viewing history of the current session.

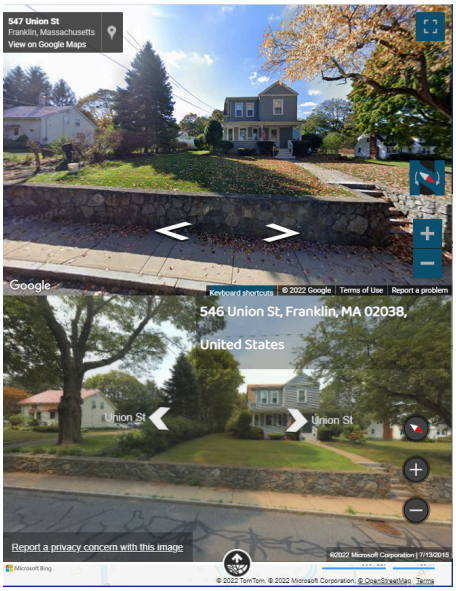
Next Extent

Click on the Zoom to Next Extent Tool to zoom to the next extent saved in viewing history of the current session.

Share

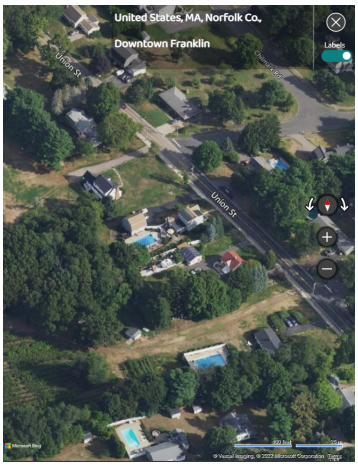
Click on theShare Tool and a URL/Link will be provided that you can share with others. This link will bring the map to the same location, load the same layers which are currently on the map, and re-load any custom graphics that have been added in the current session.

Street View Tool



AxisGIS has integrated Google StreetView into our Website. Once a parcel has been selected, click on the Street View Tool in the Parcel Details window to view the Google Street View.

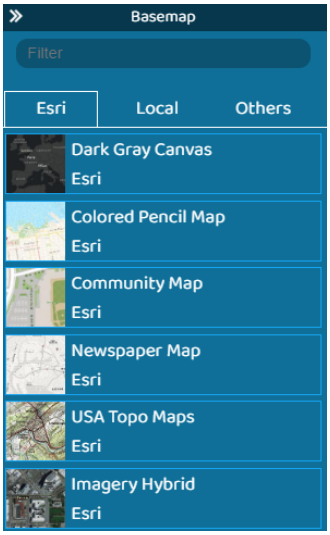
Bird's Eye View Tool



AxisGIS has integrated Pictometry Bird's Eye into our Web site for those Municipalities that have contracted with EagleView. Once a parcel has been selected, click on the Street View Tool in the Parcel Details window to view the Bird's Eye View.

Switch Basemap Tool

Click on the Basemap Tool to display the following window. From this window, users can modify the background used in the map display.



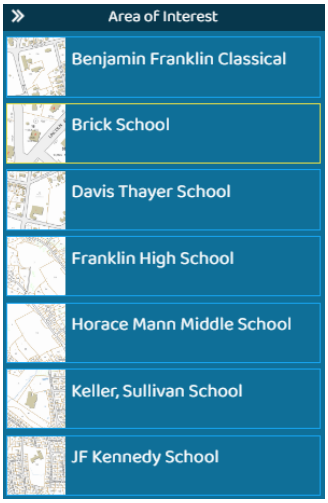
The basemap tool has three tabs - Esri, Local, Others.

- Esri has multiple imagery, topographic and basemap sets available. “Streets Esri” is the default basemap when you first load the site.
- Local are Town and/or State specific image data sets.
- Others provide imagery available from Google, etc.

There is also a “Filter” option, so you can search Google, Topo, 2009, etc. You can turn these layers on or off as well as adjust transparency within the Layers tool.

Areas of Interest Tool

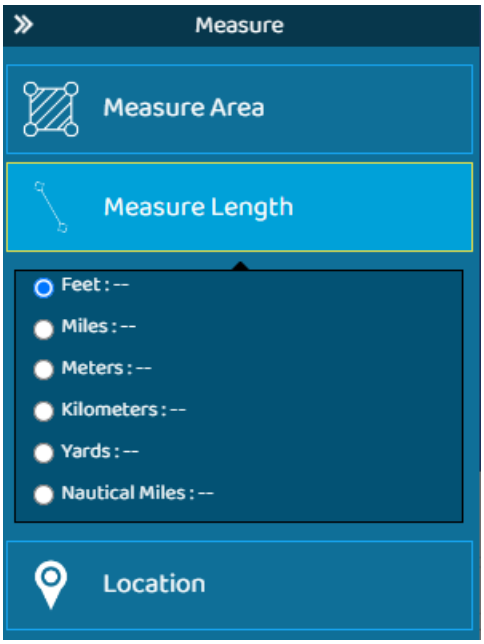
Click on the Areas of Interest Tool to display the following window:



From this window, users can select an item from the list to zoom to areas that are frequently visited. For each item listed, a set of zoom extents has been saved that will be applied when the corresponding item in the list is chosen.

Measure Tool

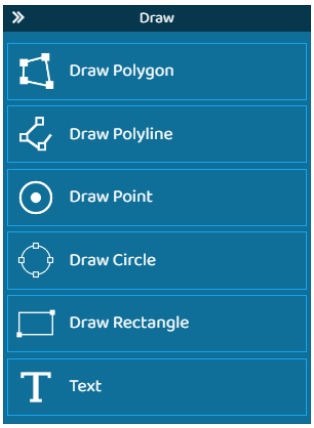
Click on the Measure Tool to display the following window:



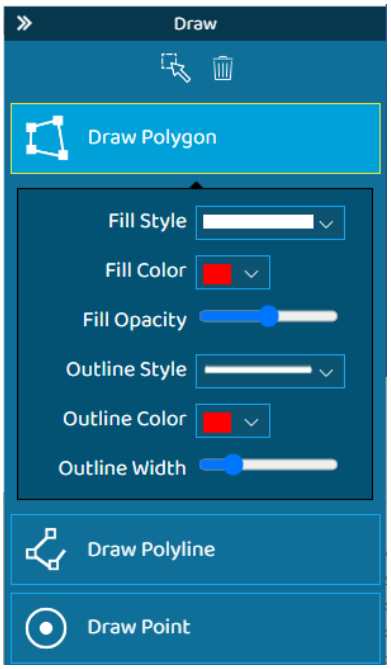
From this window, users can make line or area measurements or obtain coordinates for a point clicked on the map. Select the appropriate units of measurement.

Draw Tool

Click on the Draw Tool to display the following window. From this window, users can create graphics on the map including points, lines, polygons, text, etc.:



Select which graphic and then draw on the map to add graphics.



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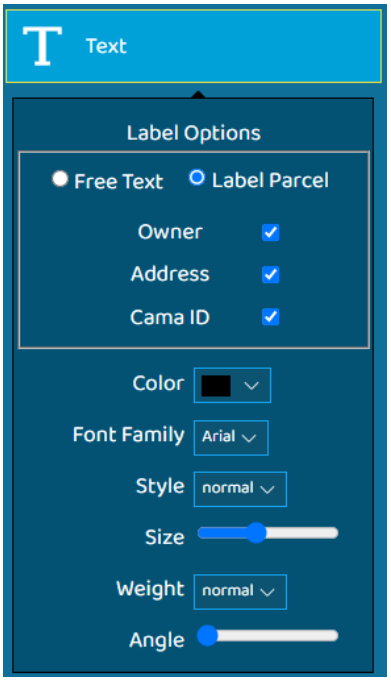
As the graphic is being drawn style, color, side, etc. can be set, or the graphic can be selected after it is drawn with the select tool:

Once selected the same options are given to change the graphic.

Click “Clear” to clear all graphics.

Click the Draw Tool again or select another tool to close the Draw Tool Window.



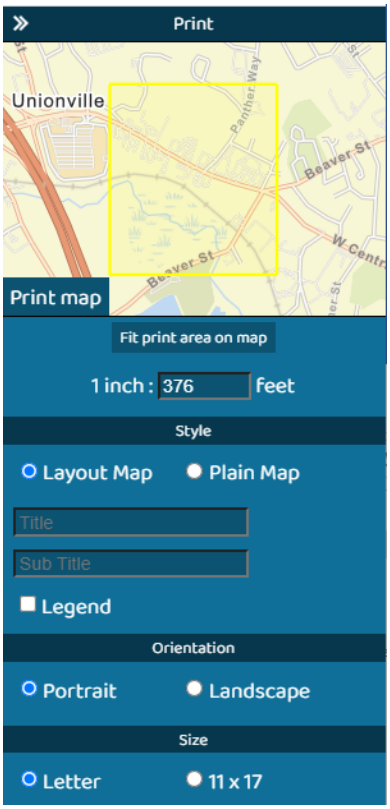
The Text option will allow text to be manually entered and placed, or parcels can be labeled automatically on owner, address, and/or the CAMA ID.

ArcGIS Online

If the user has an ArcGIS Online account, AxisGIS can be leveraged to load in and display that data directly within AxisGIS. This functionality gives the user the ability to maintain their own datasets within ArcGIS Online and have them display real-time within AxisGIS. One dataset can be maintained and kept current yet viewable within AxisGIS.

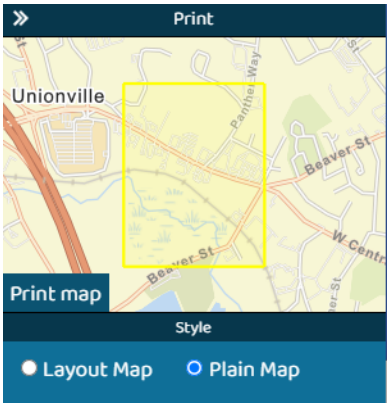
Print Current Map Tool

To produce a map, pan or zoom to the desired extent in the map window then click the Print button to display the following window. From this window, users can print the displayed map as it shows on your screen (Plain Map) or choose from several templates and options (Layout Map).



Select Layout Map and options are given to enter map title and subtitle, choose portrait/landscape, and letter or 11x17, along with the option of adding a legend.

Click Print Map, and a PDF map will be created. This map can be saved and/or printed.



Selecting Plain Map will print whatever the current display area is on the screen to a PDF.

Documentation

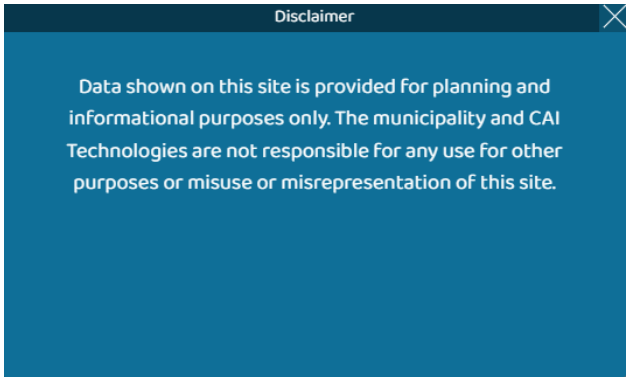
Click the Documentation link to bring up help documentation outlining all the tools within AxisGIS.

Feedback

Click the Feedback link to send suggestions for improvement to CAI Technologies regarding AxisGIS. User can also send an email directly to: webgisfeedback@cai-tech.com

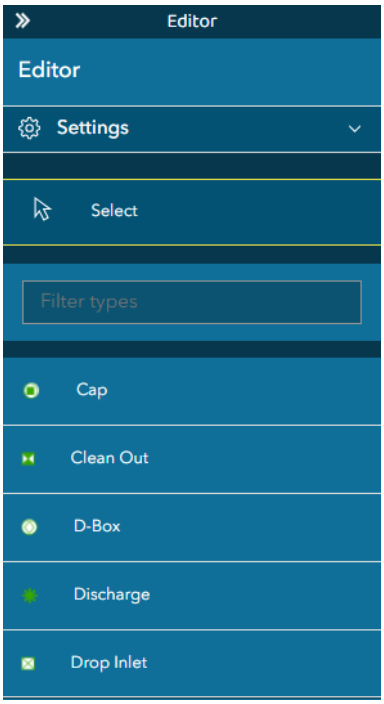
Disclaimer

Click the Disclaimer to display a disclaimer for the town:

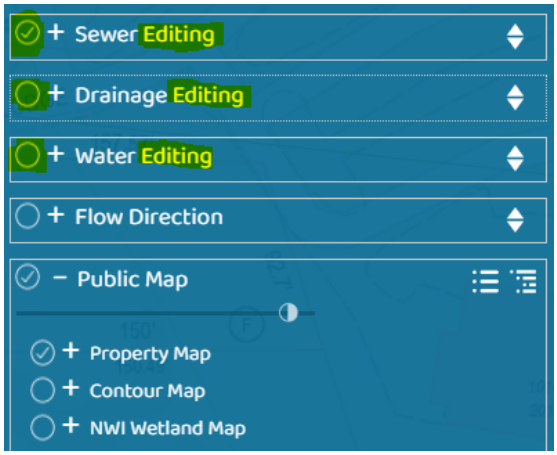


Editor

Selecting the Editor Tool allows the user to edit whatever GIS layers are configured for AxisGIS editing. Editing consists of updating field values, adding, deleting, and moving features.



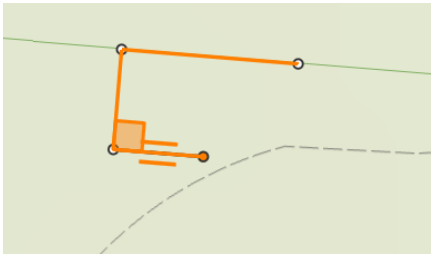
If there are no features shown to edit, the appropriate Editing Layer grouping needs to be turned on in the layer list:
(Editing suffix in the list of layers)



The first thing the user should do is determine if snapping should be configured in the settings option:

AxisGIS has 2 types of snapping:

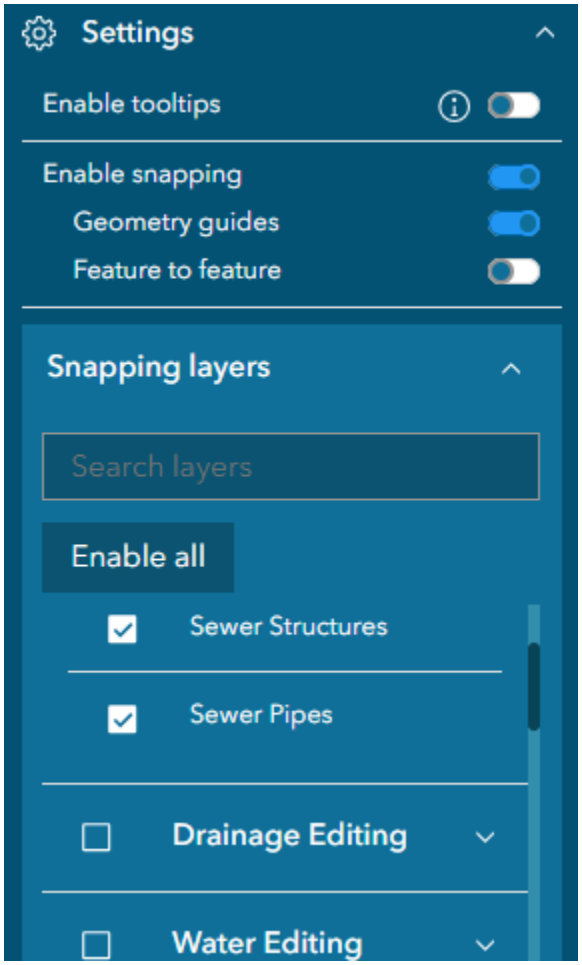
Geometry guides will show a graphic on screen as you are adding features alerting you to parallel and right-angles to existing features



Feature to feature allows the creation of new features to snap, or connect directly, to existing features. A list of mapping layers can be chosen for the new features to snap to.

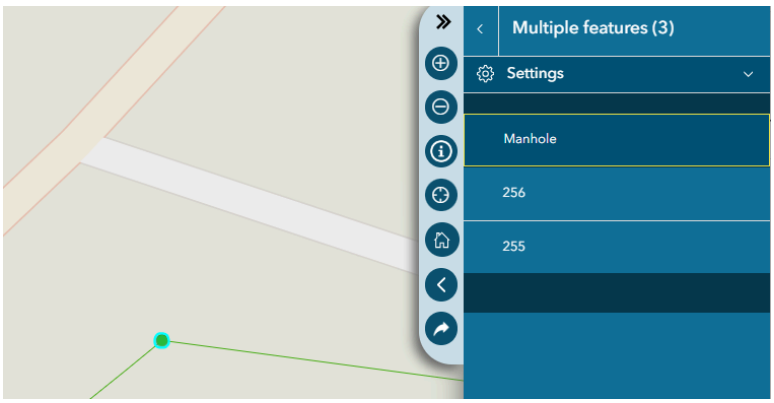
Toggling those so they appear in blue means it is enabled, and white means disabled.

The example here shows Enable Snapping is on, Geometry guides is on, Feature to feature snapping is off.



Edit existing feature field values

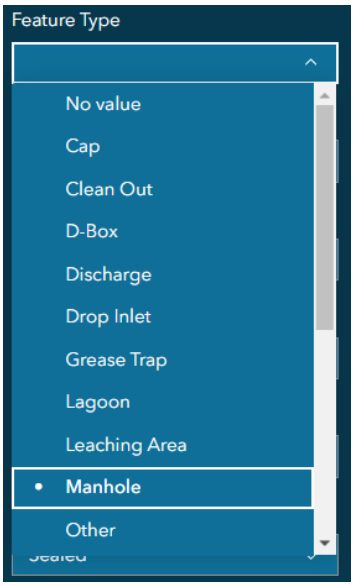
Use the Select tool to select a feature on screen to bring up the attribute editing widow. If there are multiple editable features where the user selected a feature, options are provided to highlight/select the appropriate feature:



As you hover over the list of multiple features the corresponding feature will highlight on the map so the correct feature can be selected for editing.

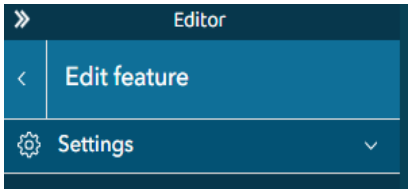
The editing window will expand providing the user with the ability to populate the fields.

Fields that are populated based on a list will have a drop-down option:

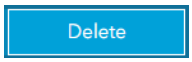


Field values that are not determined by a list can be typed in directly:

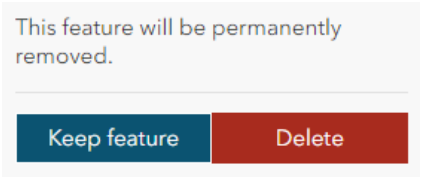
To back out of the Edit feature option without saving the field edits select the back arrow next to the Edit features on the field editor window.



Delete existing feature

Using the same methodology stated above, select the feature you want to delete. From the editing window scroll to the bottom and select 

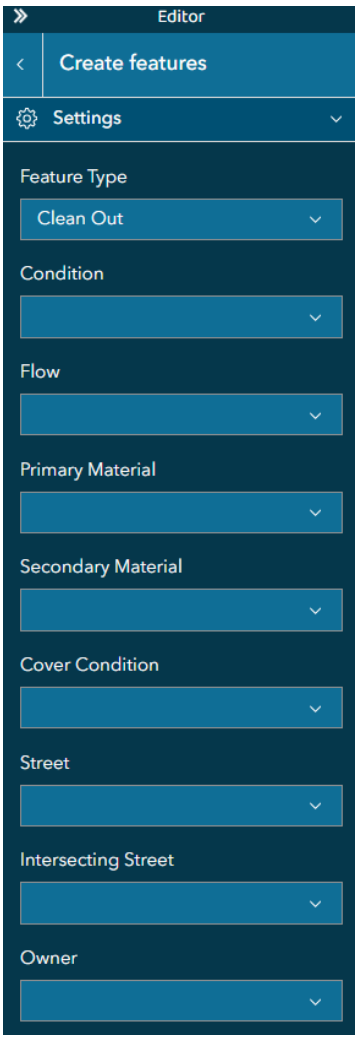
A prompt will ask for verification of permanently deleting the feature or keeping the feature.



Create new feature

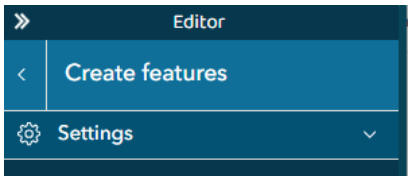
A list of all available feature types that can be created are displayed below the Select button. Selecting one of those features will allow the user to create that feature on the map. The placement of the feature will be affected based on whether or not the feature to feature snapping is enabled or not.

Clicking on the map after the appropriate feature type to create is selected will create the new feature, and the editing window for populating the field values will appear.



Just like with the editing existing features, the user will be able to populate fields based on drop-down menus, free text entry, or date selections.

To back out of the Create feature option without creating the feature select the back arrow next to the Create features on the field editor window.



Once the appropriate fields are created, select the

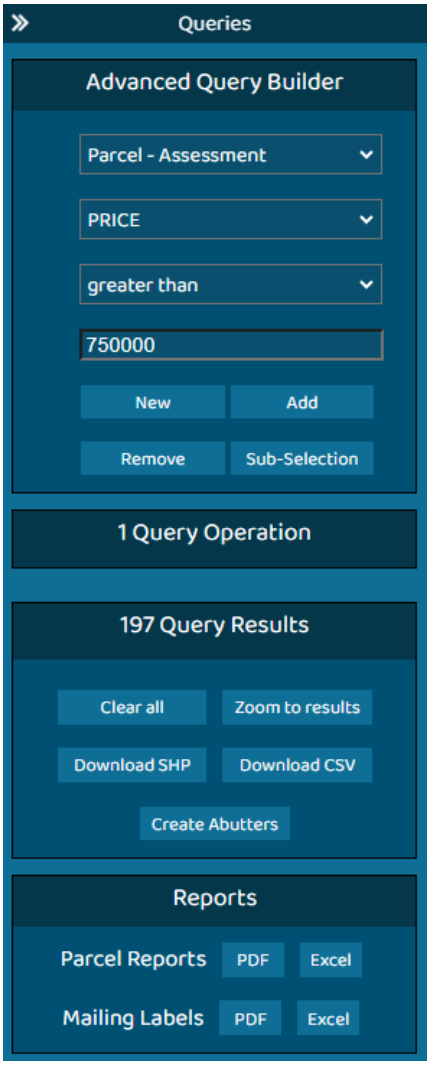
button at the bottom of the field editor list to create the feature.

If the feature was created in error, you can select the item and select delete to remove it.

Point features are a single click at the appropriate location, linear features will be created via a starting point, intermediate locations along the line along with a final end point. Double-clicking on a line feature will end the line.

Advanced Queries

Click on the Queries Tool to bring up the query tool. From here, the user can query different mapping layers based on attributes of those features.



The queries tool prompts the user for

- layer you want to run the query on
- field you are going to query
- comparator

Text: equals, not equals, contains, begins with, ends with
Number: equals, not equals, less than, greater than, range
Date: on, before, after, range

- value

Enter a value or use the drop-down list

The results can be a new selection, add to an existing selection, remove results from existing selection, or create a subset of the existing selection

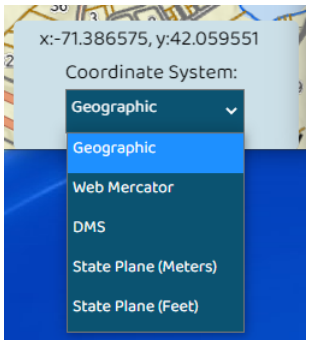
Upon creating the selection,a window appears giving the user various options to interact with the results of the query.

The *create abutters* option will notify the user if there are too many features selected which could result in a wait time for it to process the abutters.

A PDF and/or excel file of the results can be generated

Coordinate Tool

As the mouse is moved around on the map, the coordinates will be displayed in the lower right corner of the screen.



Click on the coordinates and a dropdown will be displayed allowing the user the option to display the coordinates in various formats: Geographic in

decimal degrees, Web Mercator, Geographic in degrees/ minutes/seconds, or the local state plane coordinate system in either feet or meters.

Frequently Asked Questions

How do I display legends or identify the symbols used on the map?

A legend for each layer can be displayed by clicking the **+** to the left of each layer name. See Layers for more information.

How do I avoid Pop-up errors/messages?

Internet Explorer

Google Chrome

Firefox

How do I view specific property information such as property values?

Property values and other attribute information can be displayed by doing the following:

1) Use the Identify button or the Search to display information for a specific parcel.

2) Click the "Property Card" or "CAI Property Card" item in the Documents section of the Parcel Details Window.

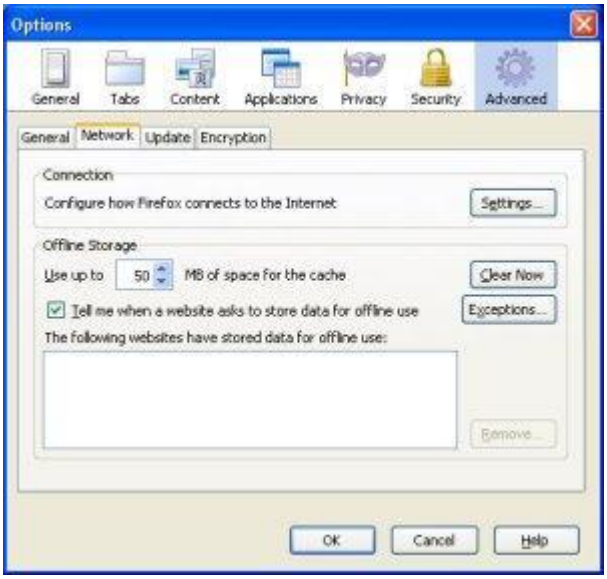
How do I search for a parcel?

Use the Search tab to search by owner, Parcel ID, or street name.

Why is my page blank?

You may need to clear your cache:

For Firefox users, Click the "Clear Now" button shown below:

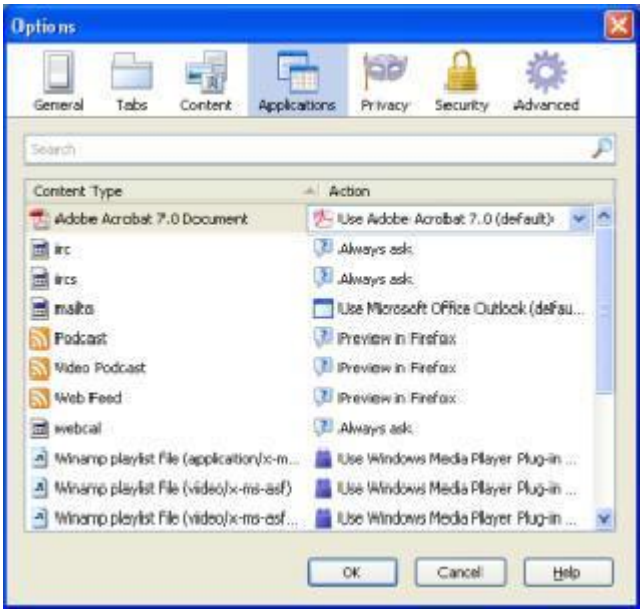


For Internet Explorer users, go to Internet Options > Delete > Delete Files

Why does my Firefox browser lock up when I try to open a PDF property card?

You should adjust your Firefox settings to change the way PDF files are opened.

Go to Tools > Options: Change the Action for Adobe Acrobat 7.0 Documents to "Use Adobe Acrobat 7.0"



Why do I continue to see pop-up blocker warnings after I've disabled my browser's pop-up blocker?

Check the settings on other applications that also block pop-ups such as Google Toolbar and your virus protection software.

What type of label paper should I use for mailing labels?

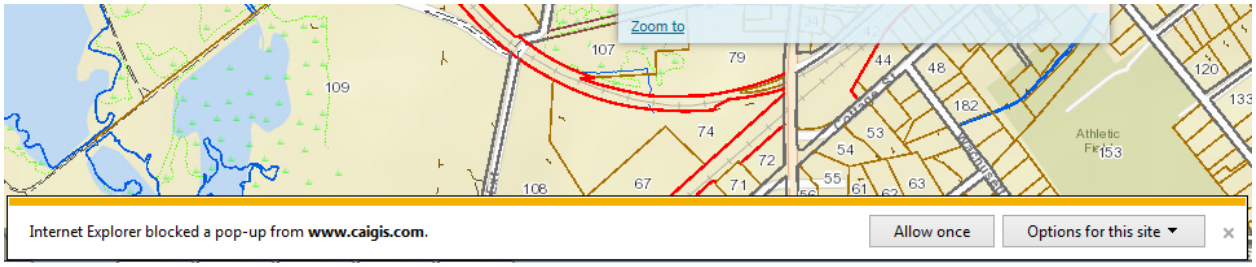
The mailing labels are formatted to fit Avery 5160 label paper. If you find that the labels do not line up, try changing your print settings to:

Scaling = "None"

Uncheck "Auto-rotate and Center"

Resolving Pop-up Blocker Issues in Internet Explorer

In Internet Explorer if pop-ups are blocked you will see the following warning:

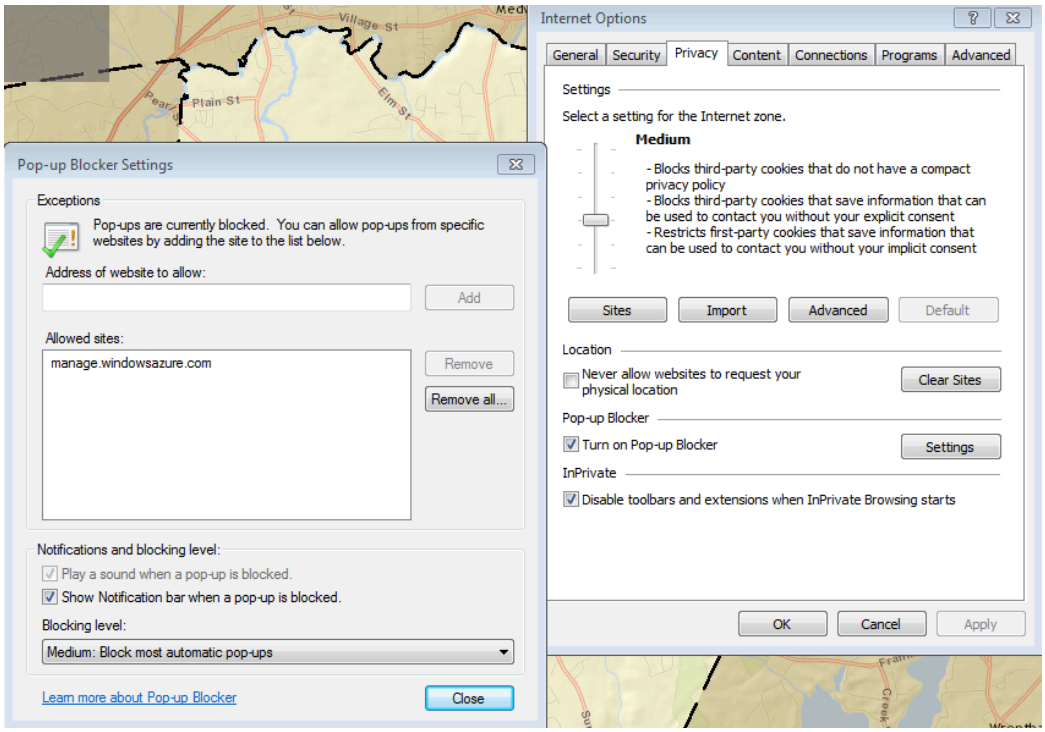


To change settings, left click on the “Options for this site” drop-down and click the option to

"Always allow"

- or -

Click Tools > Pop-up Blocker > Uncheck Turn On Pop-up Blocker

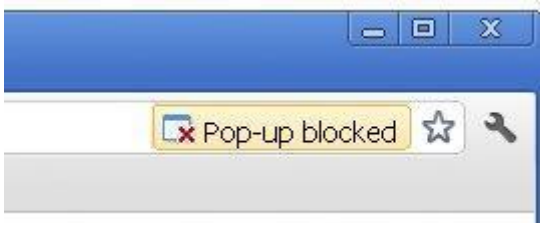


- or -

Click the Tools drop-down > Pop-up Blocker > Pop-up Blocker Settings and add "www.caigis.com" as a web site allowed to use pop-ups.

Resolving Pop-up Blocker Issues in Google Chrome

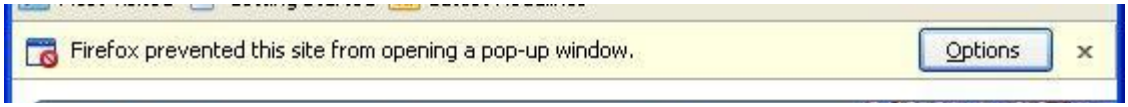
In Google Chrome if pop-ups are blocked you will see the following warning:



To change settings, left click on the pop-up blocker warning symbol and click the option to "Always allow pop-ups from www.caigis.com."

Resolving Pop-up Blocker Issues in Firefox

In Firefox if pop-ups are blocked you will see the following warning:



To change settings, left click on the "Options" button and choose the option to "Allow pop-ups for www.caigis.com."

AxisGIS Minimum System Requirements

AxisGIS requires the following minimum browser versions:

Google Chrome & Microsoft Edge: 115

Mozilla FireFox: 115

Apple Safari (iOS & macOS): 16

Only WebGL2-enabled, 64-bit browsers are supported.

Additional system requirements include:

- Desktop browsers - at least 8 GB system memory
- Mobile devices - at least 4 GB system memory
- Hardware acceleration support

The site https://webglreport.com can be used to check for hardware acceleration. A Major Performance Caveat value of No indicates hardware acceleration is available. A value of Yes indicates it is not available, and the API library will automatically attempt to improve 2D map interaction and user experience by switching to a degraded rendering mode that reduces CPU utilization.