CITY OF
Fremont
California

eGIS - Public

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A general overview and instruction guide

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Introduction

The eGIS Public website uses GIS (Geographic Information Systems) web enabled technology that allow a user to search and retrieve data based on a geographic location. The geographic location can be an address, Assessor Parcel Number (APN), street intersection, or landmark. It provides general data on planning and engineering topics such as General Plan Land Use and Zoning designation, FEMA Flood information, survey monument details, public facility locations, Seismic Hazard Zones, Hill Area Information and aerial views.

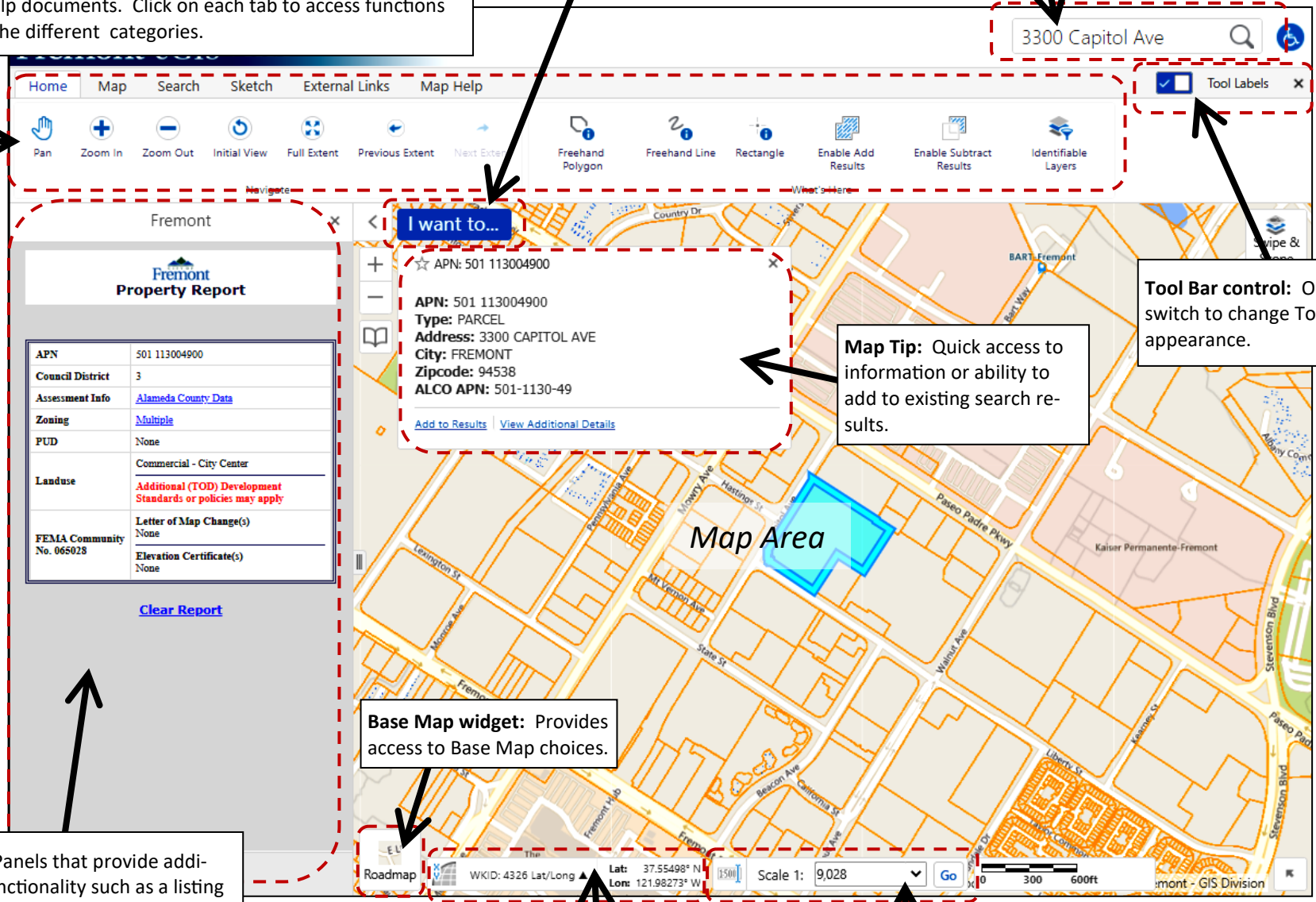
The GIS Team
City of Fremont
Information Technology Services Department
Geographic Information System Division

eGIS Public - a general overview

Tool Bar: Central location for tools used to search for information, to filter map layers, for sketching tools, to access external weblinks and to get Help documents. Click on each tab to access functions listed under the different categories.

I want to...: Listing of most used functions.

Global Search: One of many areas provided to search for an address.



Tool Bar control: On/off switch to change Tool Bar appearance.

Map Tip: Quick access to information or ability to add to existing search results.

Base Map widget: Provides access to Base Map choices.

Panel Area: Panels that provide additional map functionality such as a listing of all available map layers, printing instructions or reports will appear here.

Coordinate widget: Listing of available coordinate systems

Map scale widget: Listing of available map scales.

Home Tab

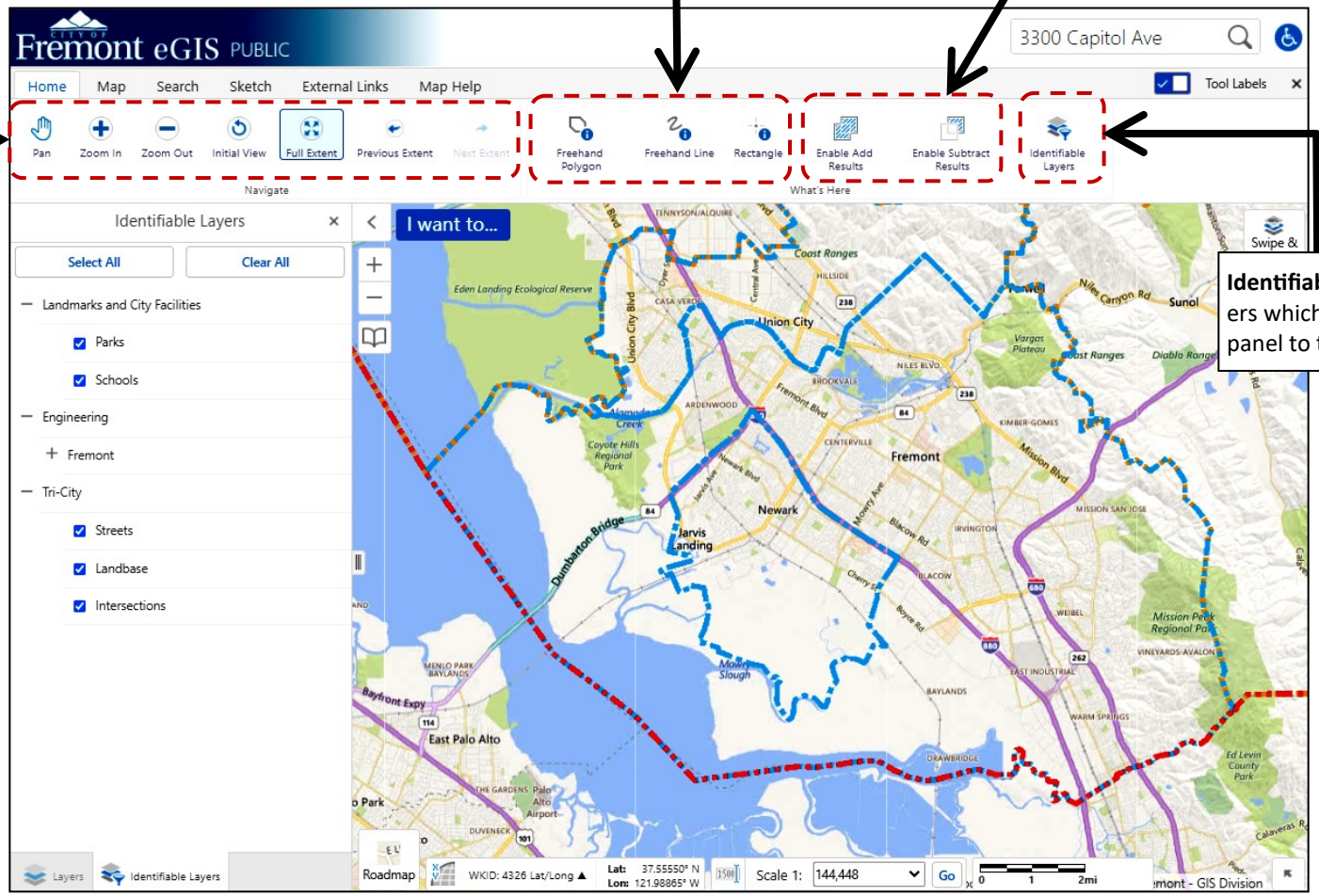
The Home Tab contains the tools for navigating, zooming, graphic selection and modifying the listing in the search record table.

Navigation tools: *(Using the left mouse button)*

- *Pan: Use hand icon to move map location at same zoom level.*
- *Zoom In / Zoom Out: Zoom in to make map image bigger. Zoom out to see more of the surrounding area.*
- *Initial View: Automatically zooms to showing City of Fremont's central core.*
- *Full Extent: Zooms to entire boundary of Fremont*
- *Previous Extent: Revert back to last extent*
- *Next Extent: If there was a previous extent, will revert to it.*

Graphic selection tools: For information on how to use the graphic selection tools, go to section on "Home Tab: Find data by drawing on the screen using a graphic selection".

Enable Add Results/Enable Subtract Results: These two widgets allow you to modify your search results by adding or removing/subtracting search records.

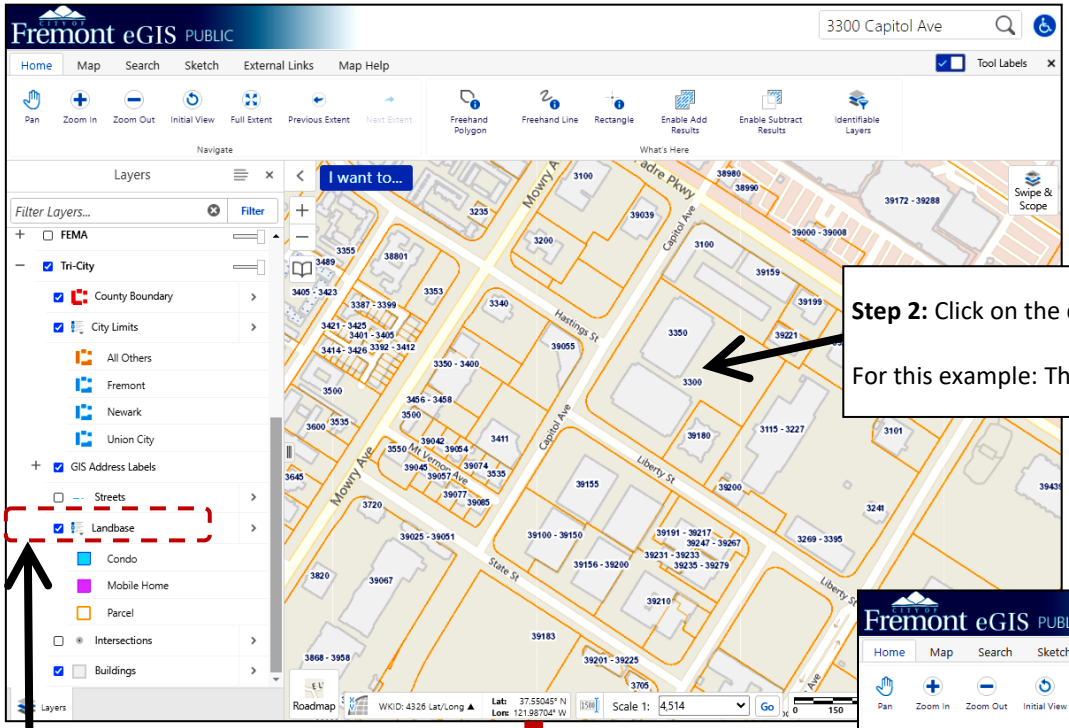


Identifiable Layers: A list of layers which can be queried on. See panel to the left of the map.

Map image is being provided at Full Extent zoom level.

Home Tab: Find data by clicking directly on the screen.

Discover information on a feature or parcel by directly interacting with the map view.

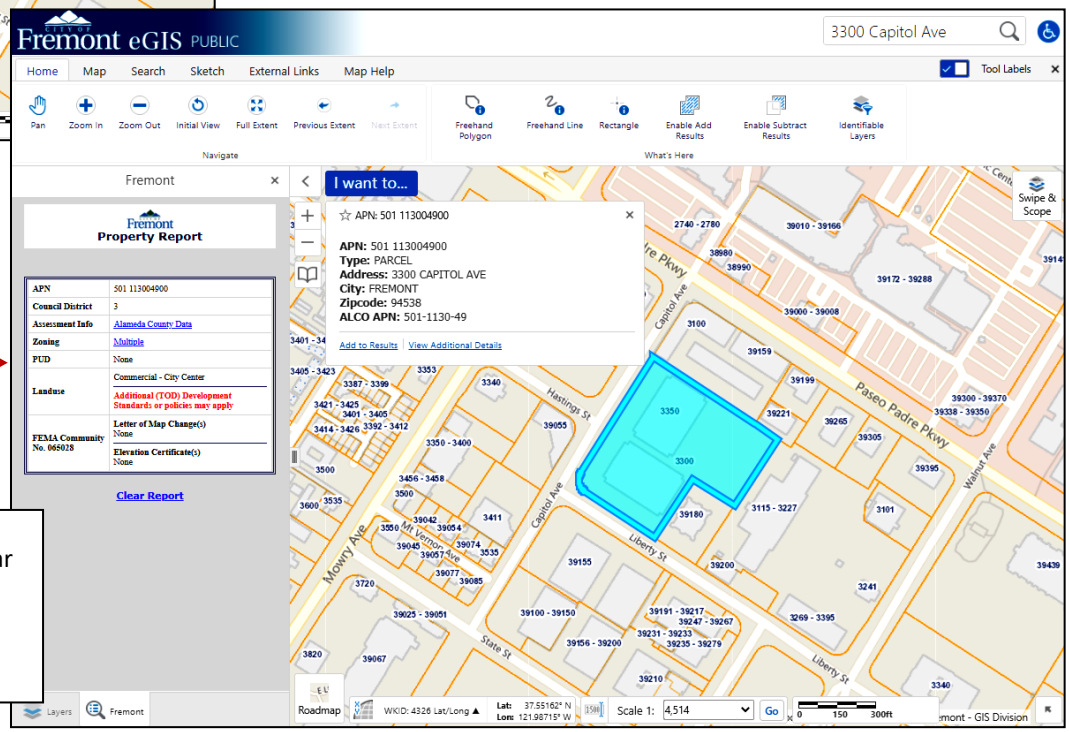


Step 2: Click on the desired parcel to select it from the map.

For this example: The parcel addressed as 3300 Capitol Avenue has been selected.

Step 1: First make sure the layer containing the information you want to select is checked.

Since this example is to select a parcel, the Landbase layer is checked.



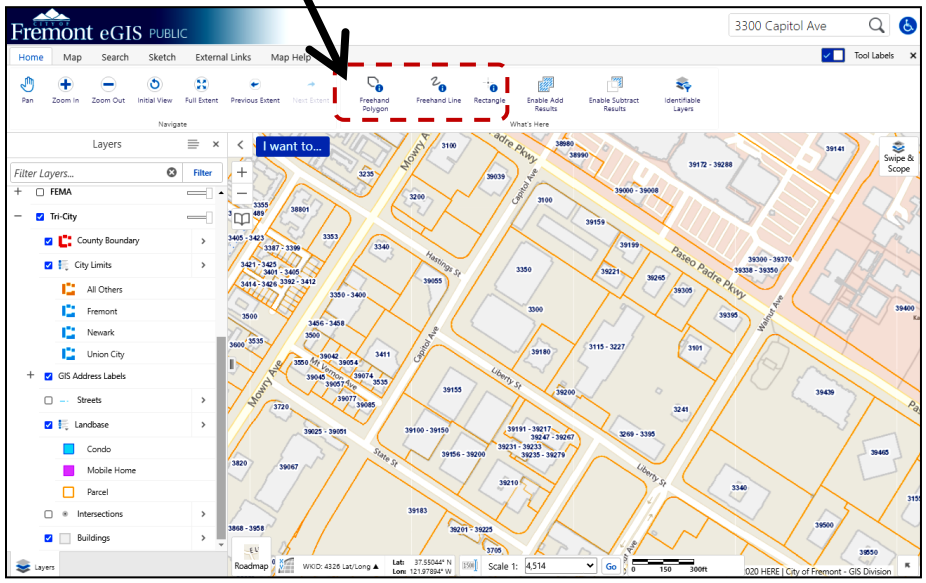
Final result: The selected parcel is highlighted. Map tips appear at the top of the map which provides options for additional information and a report appearing in the left panel. For this example on a parcel selection, a Property Report will appear.

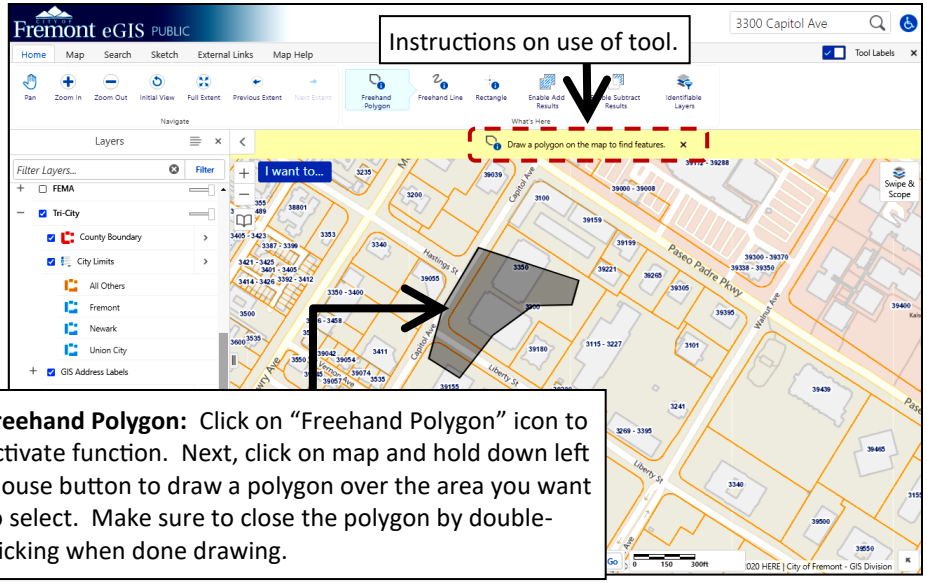
Home Tab: What's Here - Freehand Polygon, Freehand Line and Rectangle (graphic selection tools)

If information on multiple features or parcels are needed, select the features or parcels using one of the three graphic tools available under the What's Here section of the Home Tab.

Three graphic selection tools are available.

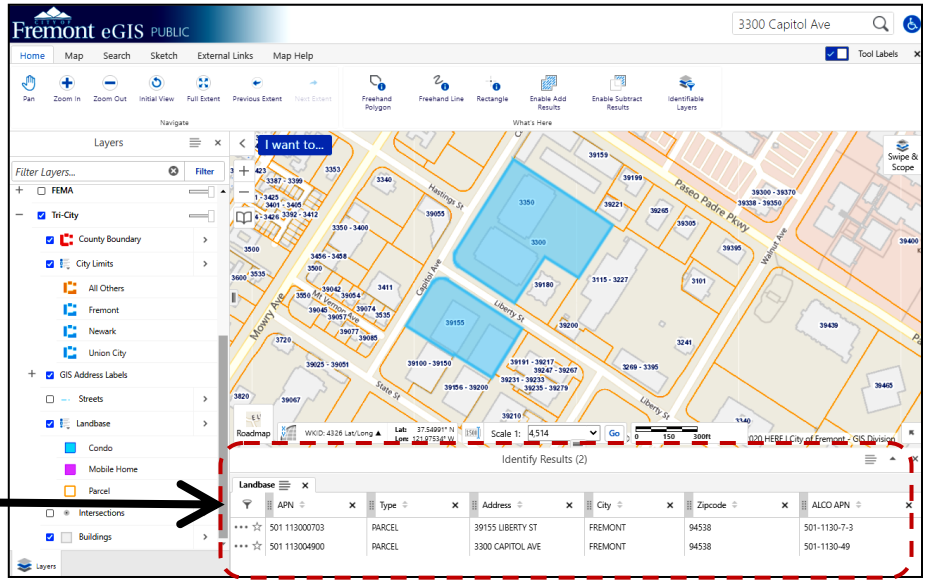
- Freehand Polygon
- Freehand Line
- Rectangle





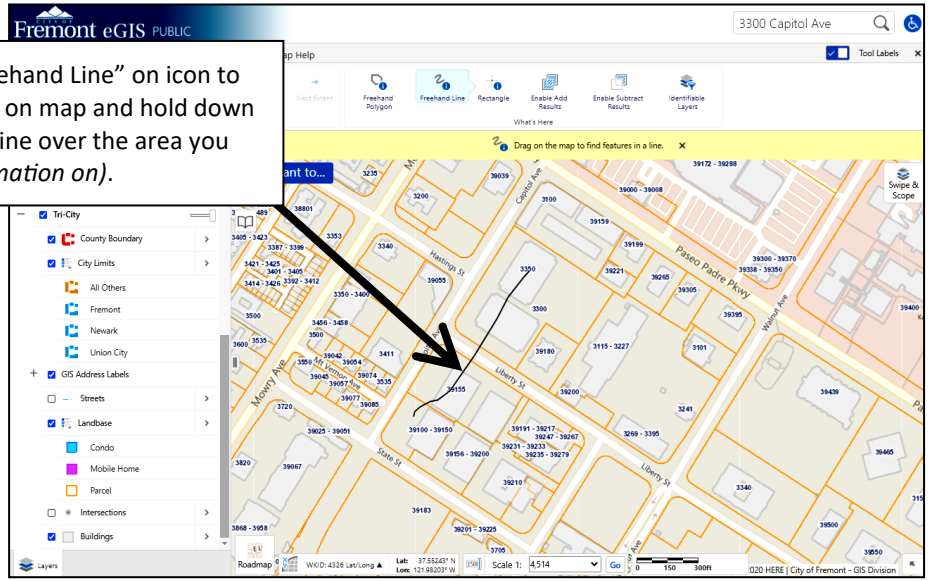
Freehand Polygon: Click on "Freehand Polygon" icon to activate function. Next, click on map and hold down left mouse button to draw a polygon over the area you want to select. Make sure to close the polygon by double-clicking when done drawing.

Results Table: No matter which graphic selection tool is used, a table will appear at the bottom of the map showing a listing of the selection . Since the Landbase layer was checked, a listing of the selected parcels is shown.

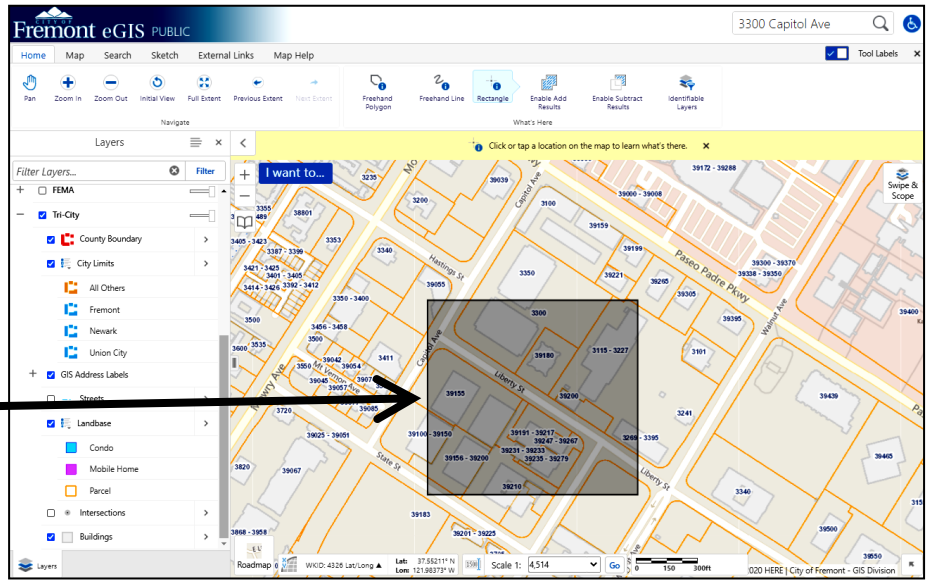


Home Tab: What's Here (using a graphic selection to get information) - continued

Freehand Line: Click on "Freehand Line" on icon to activate function. Then, click on map and hold down left mouse button to draw a line over the area you want to select *(i.e., get information on)*.



Rectangle: Click on "Rectangle" icon to activate function. Next, click on map and hold down left mouse button to drag a rectangle over the area you want to select. Stop depressing left mouse button when done.



Home Tab: Enable Add Results and Enable Subtract Results

The "Enable Add Results" and "Enable Subtract Results" allows you to modify your results resulting from your search or query. These tools are located under the Home Tab.

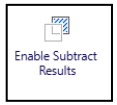
"Enable Add Results": This tool allows you to add additional features to your existing list of results. In this example, the original results table starts with one record.

1) To begin, select the "Enable Add Results" widget from the What's Here section of the Home Tab to add additional items. *[Note: You can only add items which are on the same layer. Since the example is using the Landbase, only additional parcels may be added.]*

2) Next, follow the same steps as done for the original feature selection. For this example, the Freehand Line was used to select the first parcel. To add additional parcels, this tool was used again to select additional parcels (from the Landbase Layer) to be added to the results table.

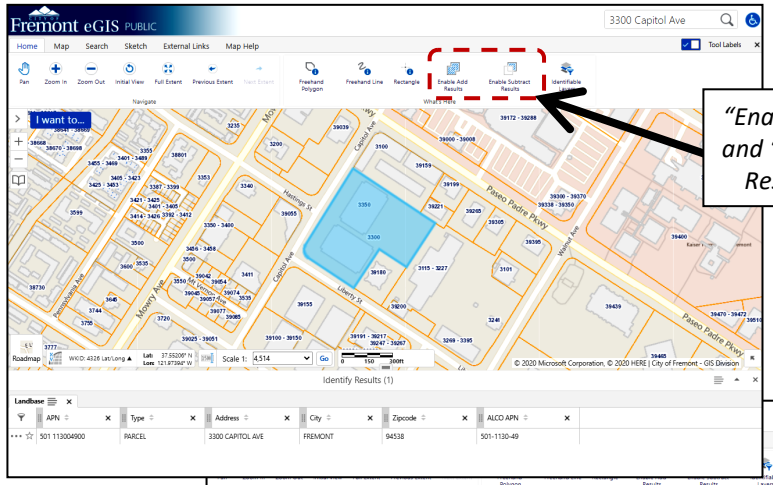
"Enable Subtract Results": Using this tool, you can remove records from the results table. In this example, the results table has only three records.

1) To remove a record, select the "Enable Subtract Results" widget from the tool bar. *[Note: You can only subtract or remove those items listed in the results table. Since the example is using the Landbase, only a listed parcel may be subtracted.]*



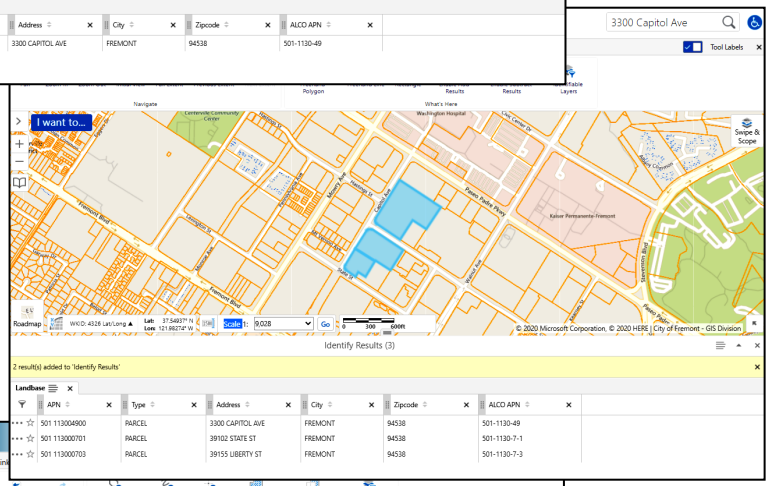
2) Next, follow the same steps as done for the original feature selection but this time, select only the feature you wish to have removed from the results table. For this example, the Freehand Line was used to select the first parcel. To subtract a
parcel, this tool was used again to select one of the highlighted parcels to be removed or "subtracted" from the results table.

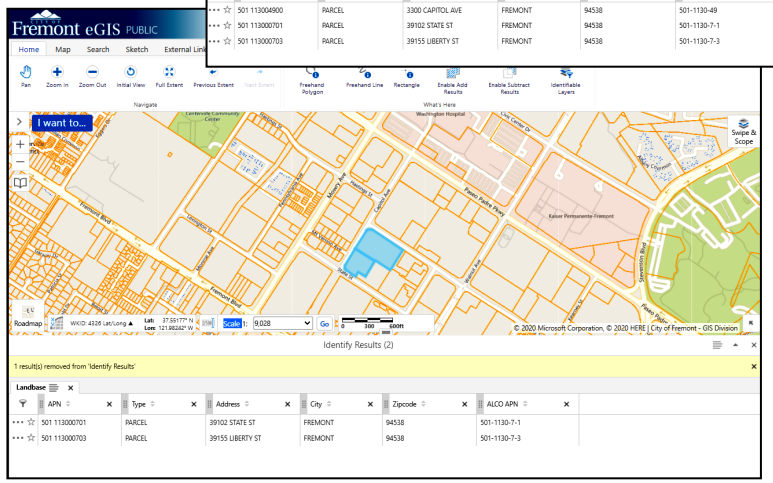
Note: Parcels shown in blue in the map view reflect those listed in the results table.



Original results

Two parcels was added to the original results table using "Enable Add Results"





One parcel has been removed from table using "Enable Subtract Results"

Home Tab: What's Here - Identifiable Layers

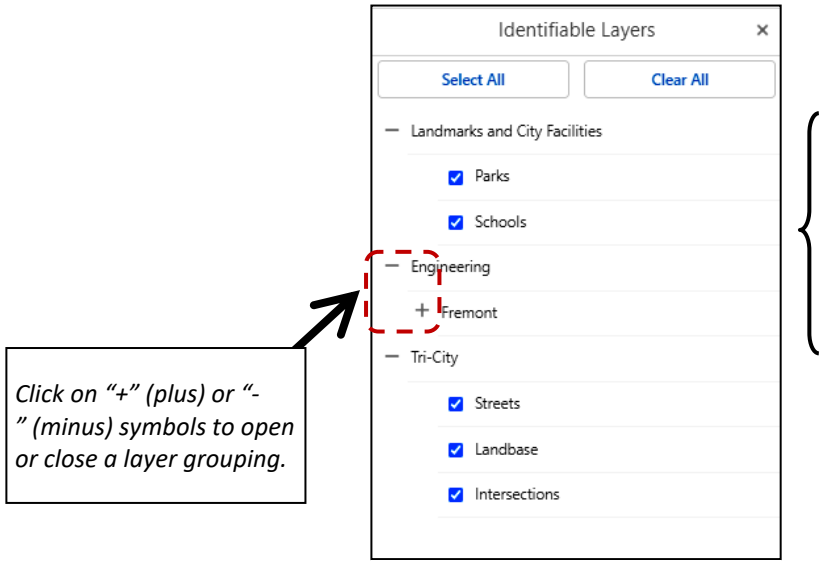
Map layers which can be selected and get information about its features.

Identifiable Layers List: A listing of all layers is provided under the Identifiable Layers feature.

1) Select the Identifiable Layers widget from the What's Here section of the Home Tab.

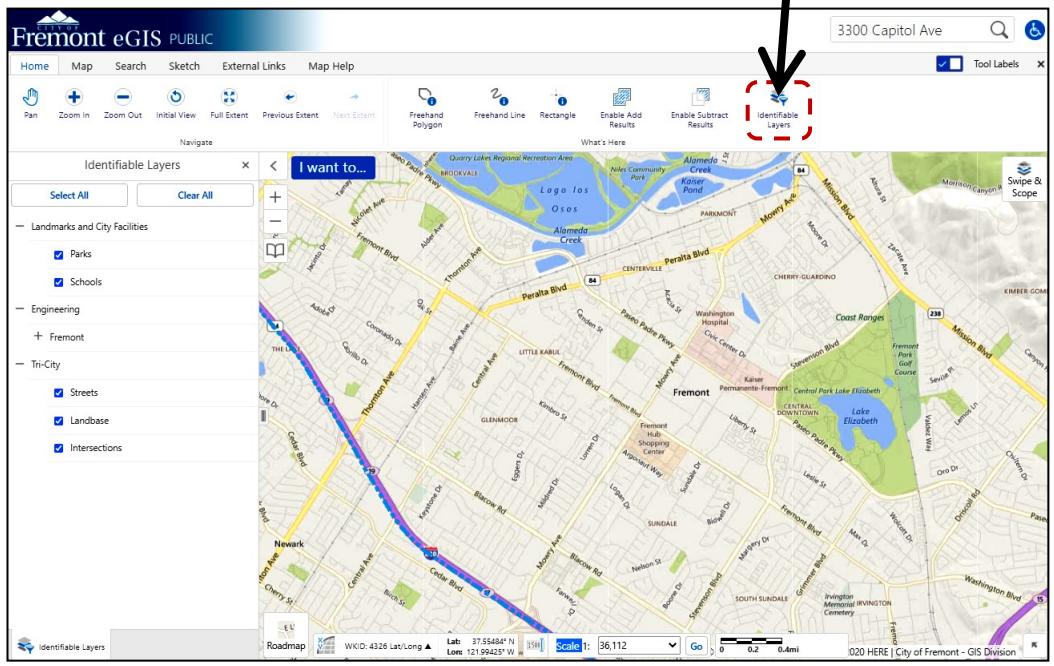
2) Examine the Identifiable Layers List and select the layers you wish to be able to obtain information on.
   - "Select All" will select all the layers shown in this section.
   - "Clear All" will deselect all the layers so that you do not have to deselect each one individually.

Identifiable Layers widget



Click on "+" (plus) or "-" (minus) symbols to open or close a layer grouping.

Layer List



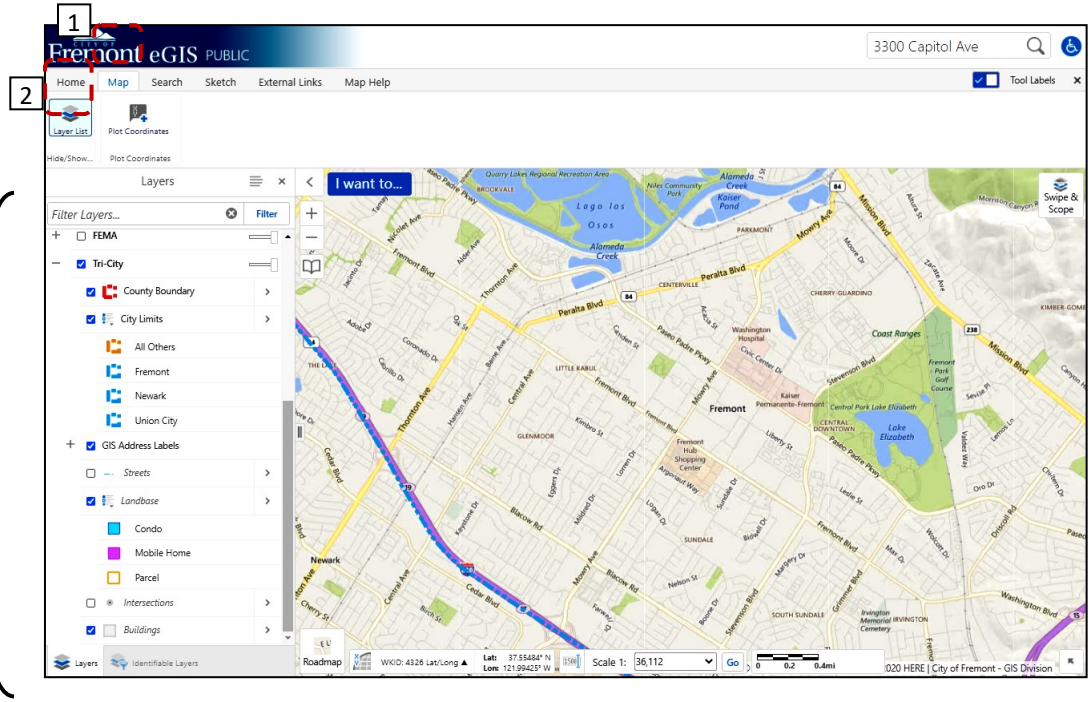
Default view of map screen upon accessing the Identifiable Layers feature.

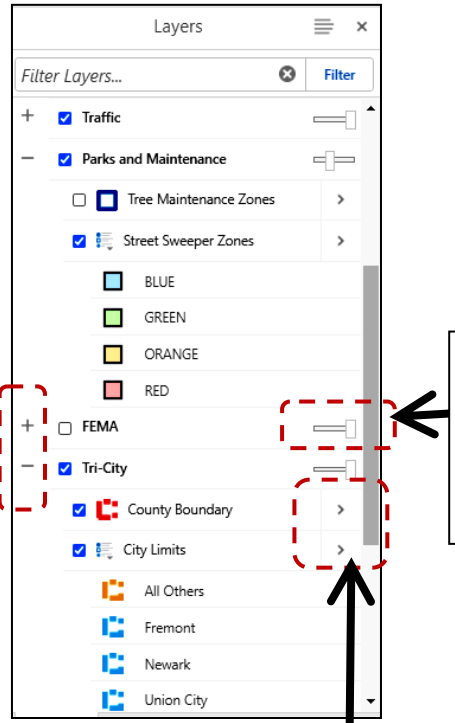
Map Tab: Layers List

How-to interact with the list of available layers provided under the Map Tab.

Layers List: A listing of all available layers is provided under the Map Tab.

1) Select the Map Tab to see Layer List widget.
2) Click on "Layer List" widget to bring up the available layer list.

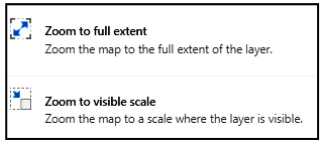


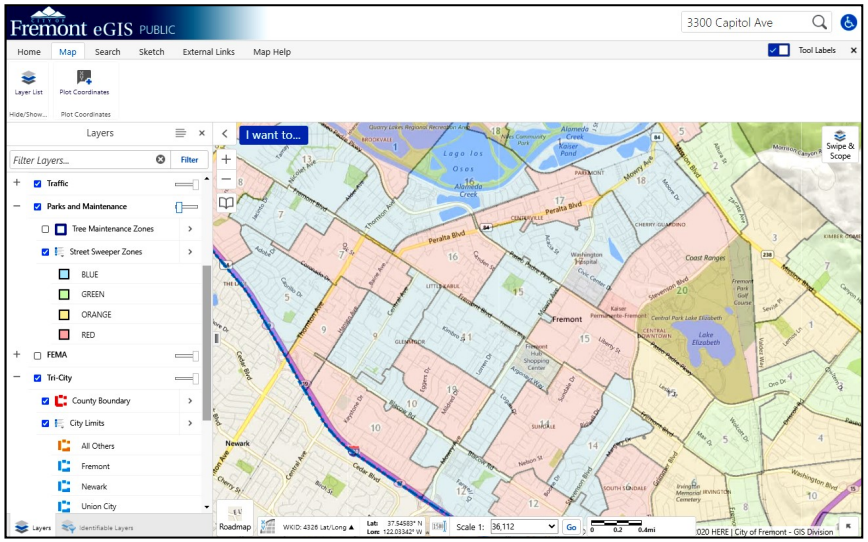


Click on "+" (plus) or "-" (minus) symbols to open or close a layer grouping

Using left mouse button, hold down slider control to slide control and change the transparency level of the layer

Clicking on the down arrow to the right of the layer provides access to these zoom options.



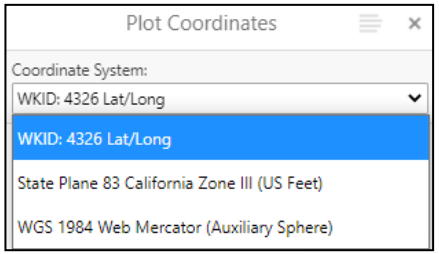


In this example, the Street Sweeper Zones layer has been selected. The level of transparency is set at a minimum level so that the streets can be seen underneath the Street Sweeper Zones layer.

Map Tab: Plot Coordinates

1) To begin, click on PLOT COORDINATE widget.

2) Select preferred coordinate system from pull-down menu.

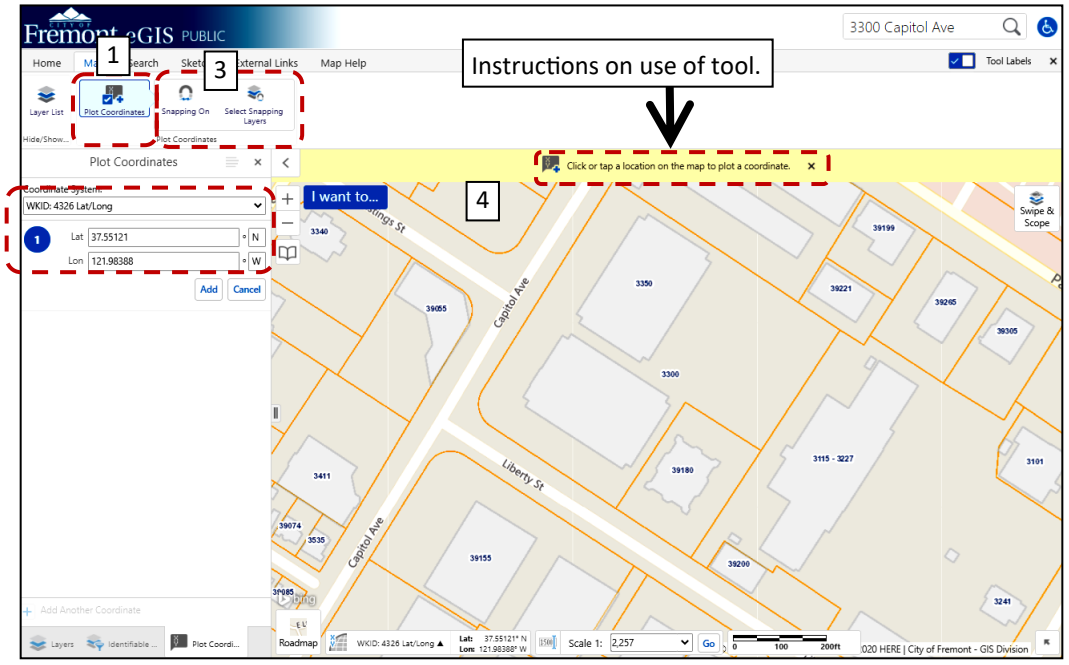


Coordinate System pull down menu

3) For better accuracy in placing location to plot coordinate, select "Snapping On" and then chose a Snapping Layer.

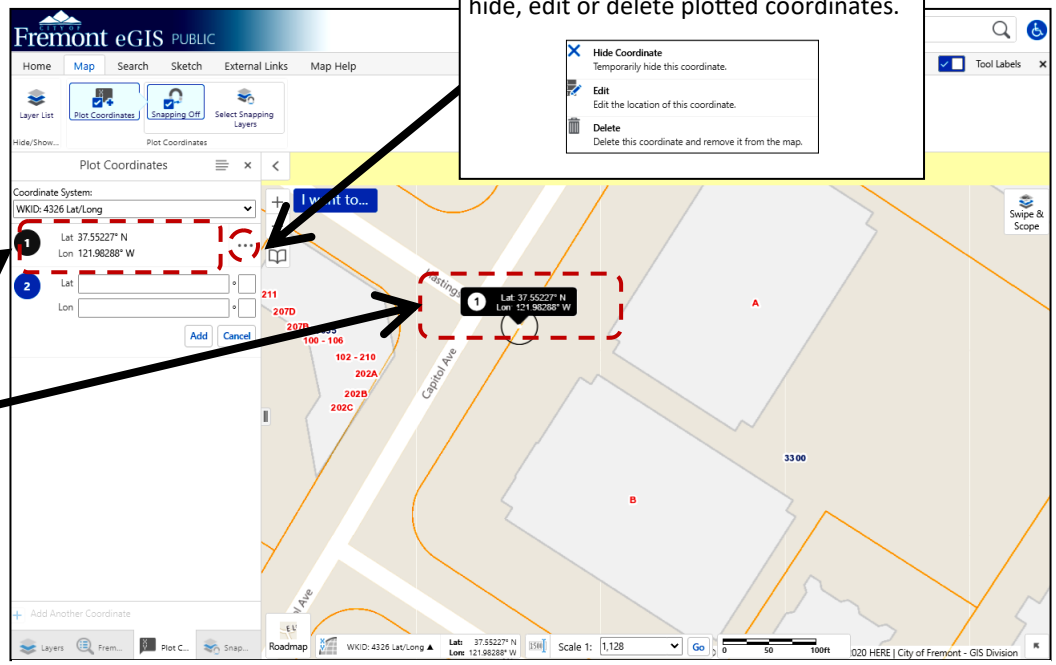
- *"Snapping Off" indicates that the drawn polygon lines will snap to the selected snapping layer.*
- *"Select Snapping Layers": A list of layers will appear when this widget is select. If you are tracing over the parcel lines, select the Landbase layers located under the Tri-City category.*

4) Follow the instructions on the use of the tool appearing above the map screen.



Coordinate information will appear in two locations (i.e., on the map and in the left panel).

See menu under "…" for functions to hide, edit or delete plotted coordinates.



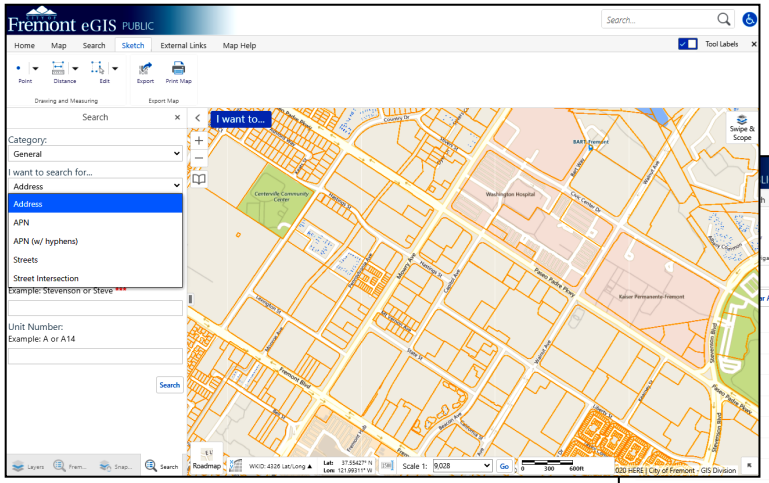
Completed action - coordinates plotted

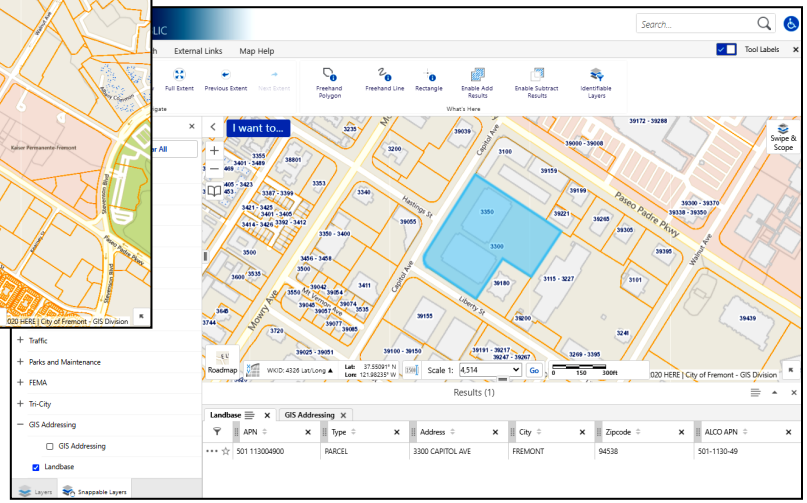
Note: Ability to delete or relocate a plotted coordinate is as available under the EDIT widget located under the Drawing and Measuring section of the Sketch Tab.

Search Tab: General - Address, Parcel and Street searches

A How-to guide on searching for a location by address, parcel , street name and/or street intersection.

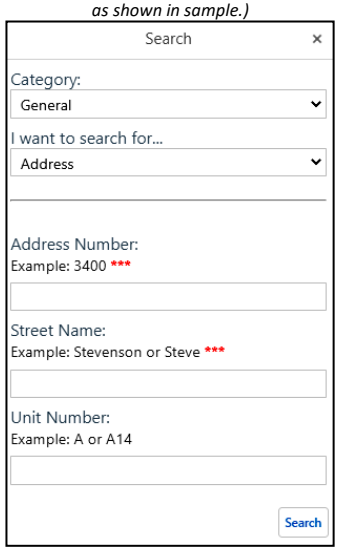
1) To begin, click on GENERAL widget.
2) Under the "I want to search for…" box, select one of the following from the pull-down menu:
   - Address
   - APN
   - APN (w/hyphen)
   - Streets
   - Street Intersection
3) Depending on item searched, provide information as requested in the box provided.
4) Click on SEARCH button to submit query. Map image will zoom to requested site.



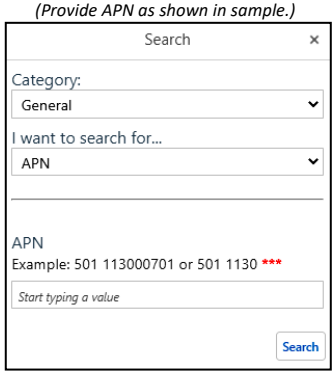


Resulting address search on 3300 Capitol Avenue

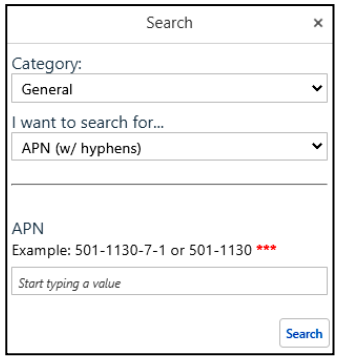
Address search
(Provide address number and street name as shown in sample.)



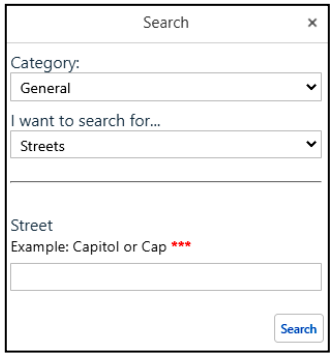
Assessor Parcel Number search (APN)
(Provide APN as shown in sample.)



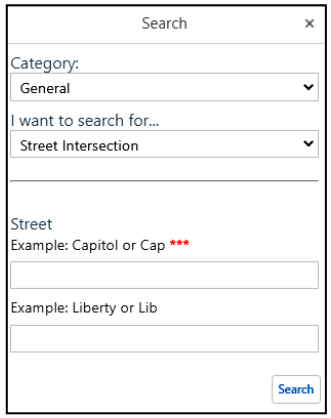
Assessor Parcel Number search (APN)
(Provide APN in format as shown.)



Street search
(Provide street name as shown in sample.)

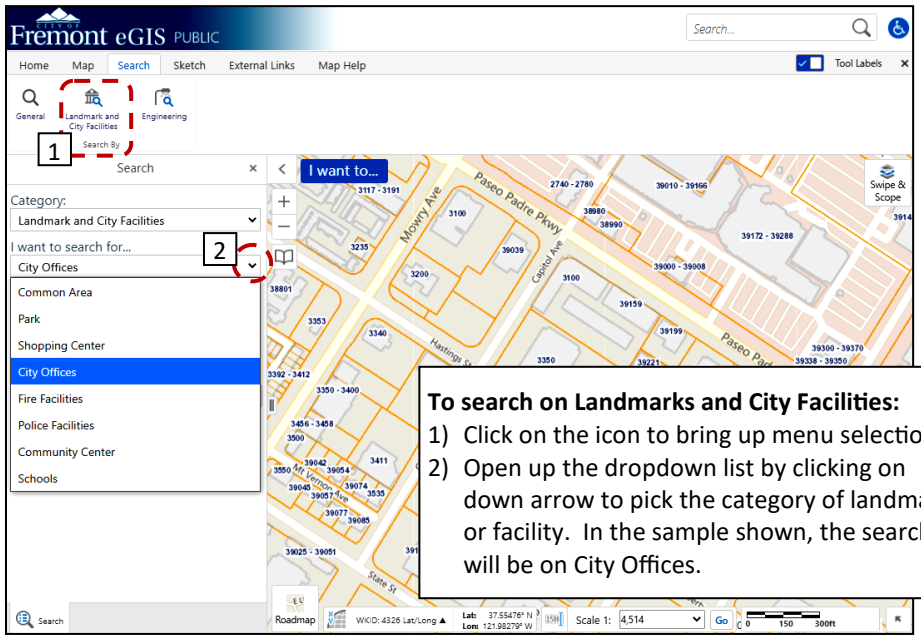


Street Intersection search
(Provide both street names for the intersection as shown in sample.)



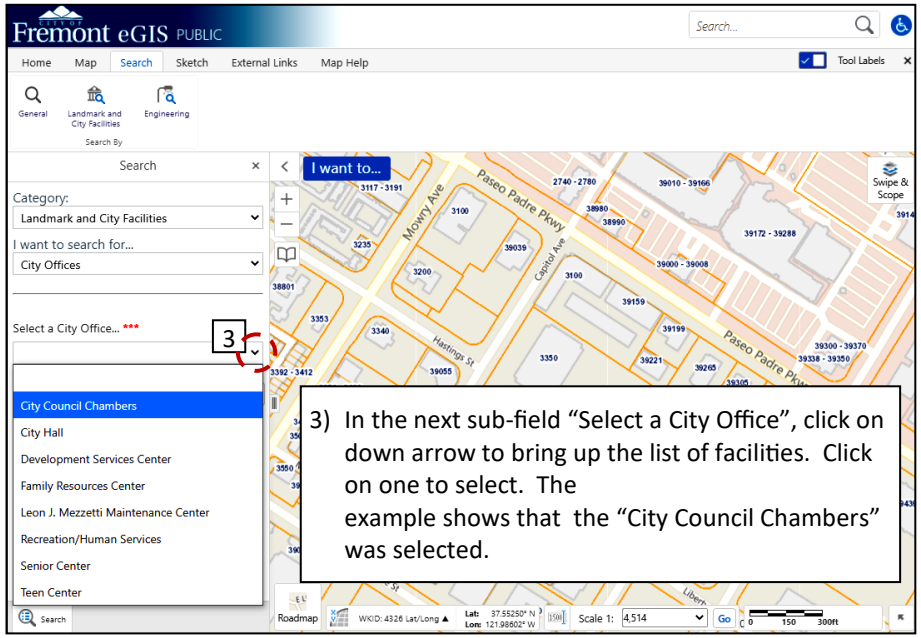
Search Tab: Landmarks & City Facilities searches

A How-to guide on searching for landmarks and City Facilities.

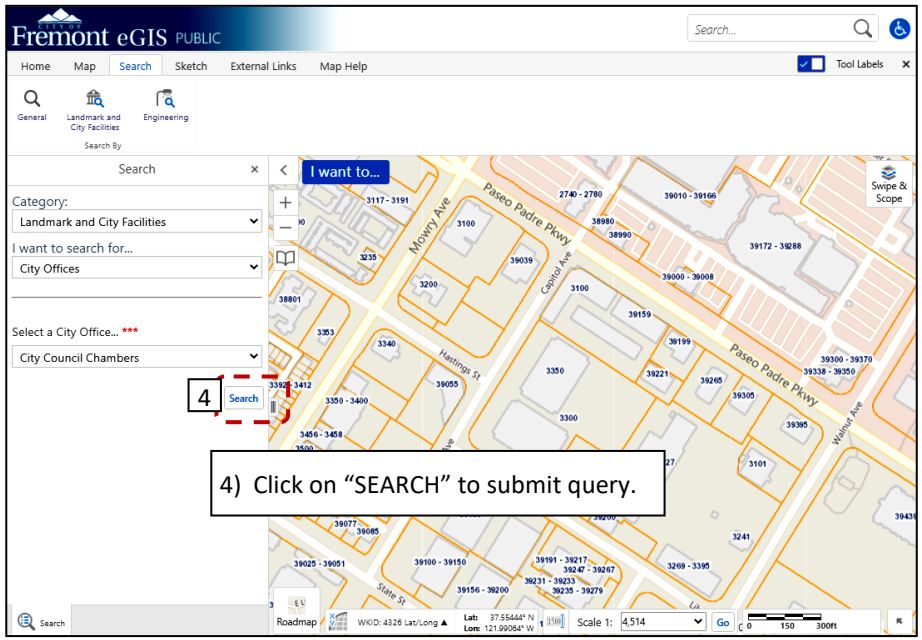


To search on Landmarks and City Facilities:

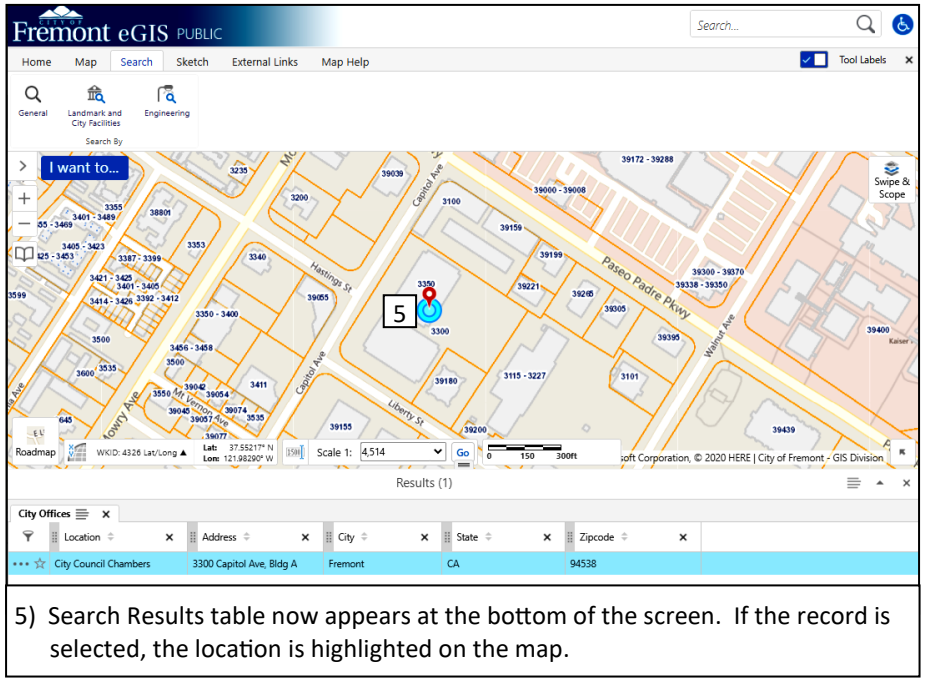
1) Click on the icon to bring up menu selection.
2) Open up the dropdown list by clicking on down arrow to pick the category of landmark or facility. In the sample shown, the search will be on City Offices.



3) In the next sub-field "Select a City Office", click on down arrow to bring up the list of facilities. Click on one to select. The example shows that the "City Council Chambers" was selected.



4) Click on "SEARCH" to submit query.



5) Search Results table now appears at the bottom of the screen. If the record is selected, the location is highlighted on the map.

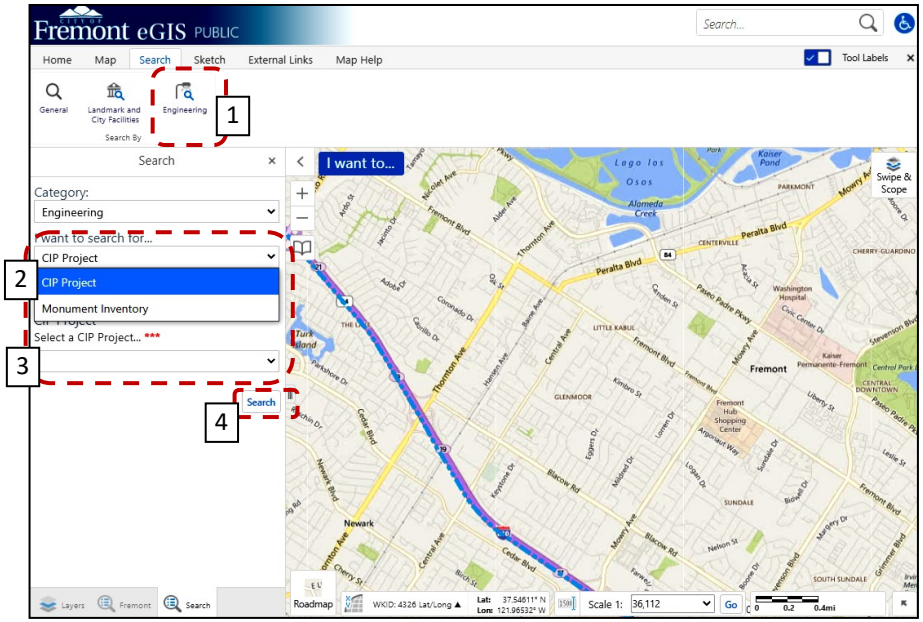
Search Tab: Engineering searches - CIP Projects & Monument Inventory

A How-to guide on searching for Capitol Improvement Program Projects (CIP) and Monument Inventory (i.e., Survey Control information).

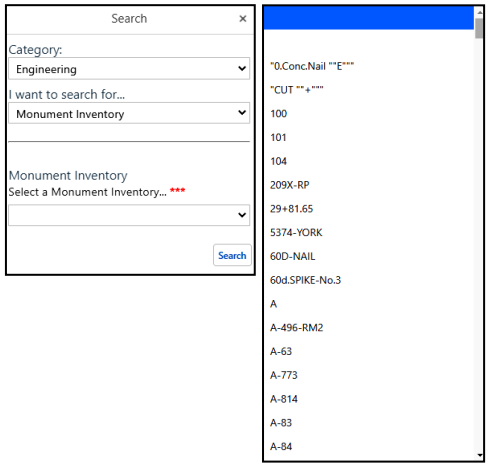
1) To begin, click on ENGINEERING widget.

2) Under the "I want to search for…" box, select either CIP Project or Monument Inventory from pull-down menu.
3) Select specific CIP project *(if searching on CIP Project)* or monument *(if searching on Monument Inventory).*
4) Click on SEARCH button to submit query.
5) The map will zoom to searched location and a results table will appear below the map view.

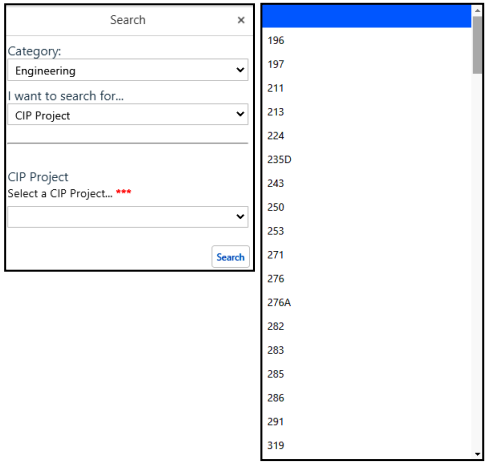
   Click on the record in the results table to bring up a report in the left panel and to highlight the searched location.



Monument Inventory menu & pick list



CIP Project menu & pick list



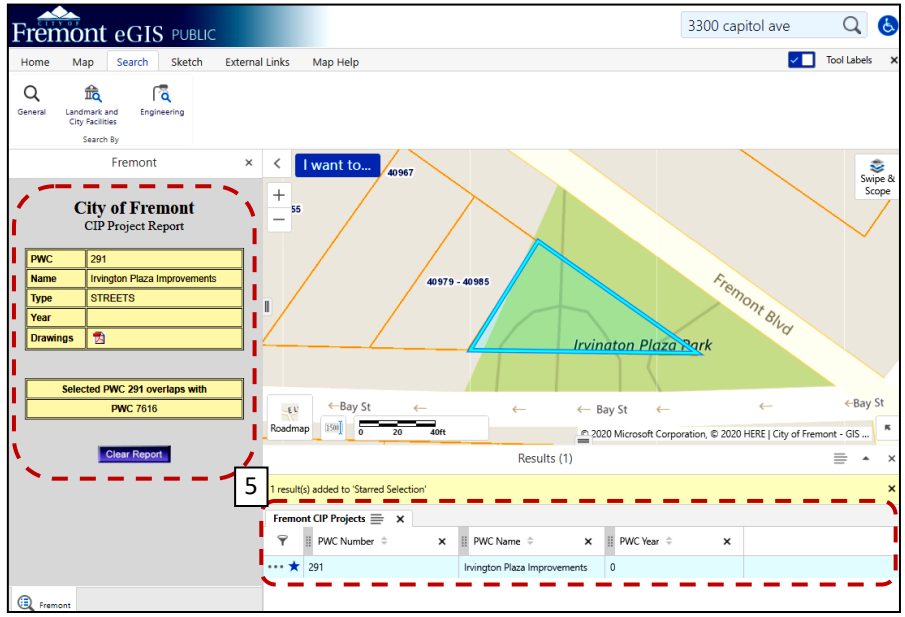


Image showing location and details of CIP Project # 291

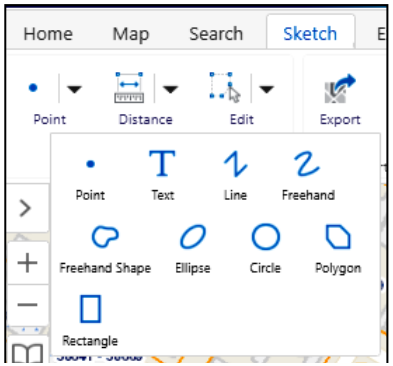
Sketch tab: Graphic Annotation

Sketch tab: Under the Sketch tab, there are several graphic tools which can be used to annotate a map before it is printed. The annotations will stay in place where drawn and will disappear at close of the session or they can be erased during the current session.

To begin sketching:

1) Make sure that your map view shows the area where you wish to start sketching. Adjust zoom level as needed. *[Note: For this example, 3300 Capitol Ave is being used.]*

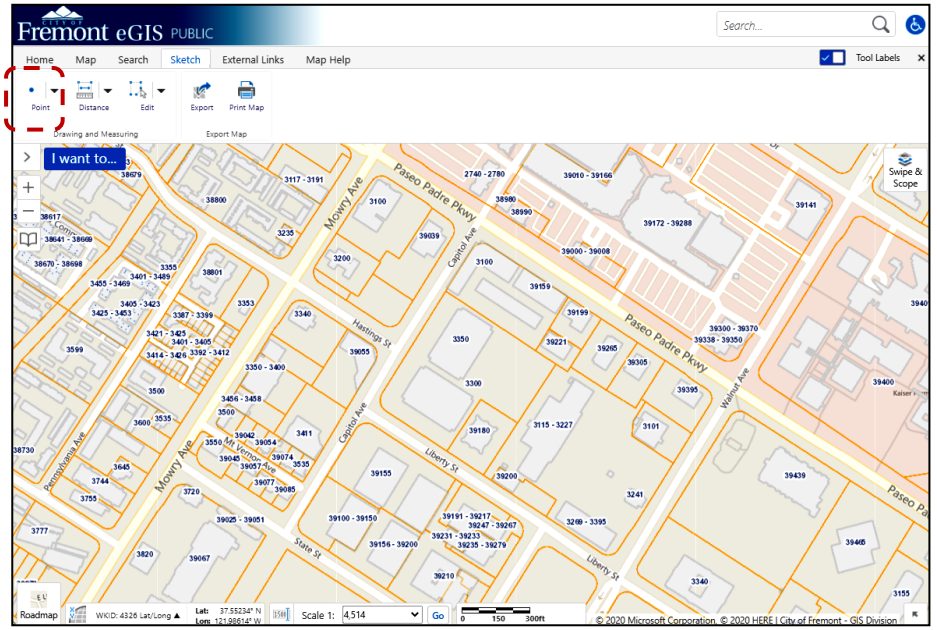
   The sketch tools are the first widget under the Sketch Tab. Click on the down arrow to see the available tools (i.e., a point to a rectangle).



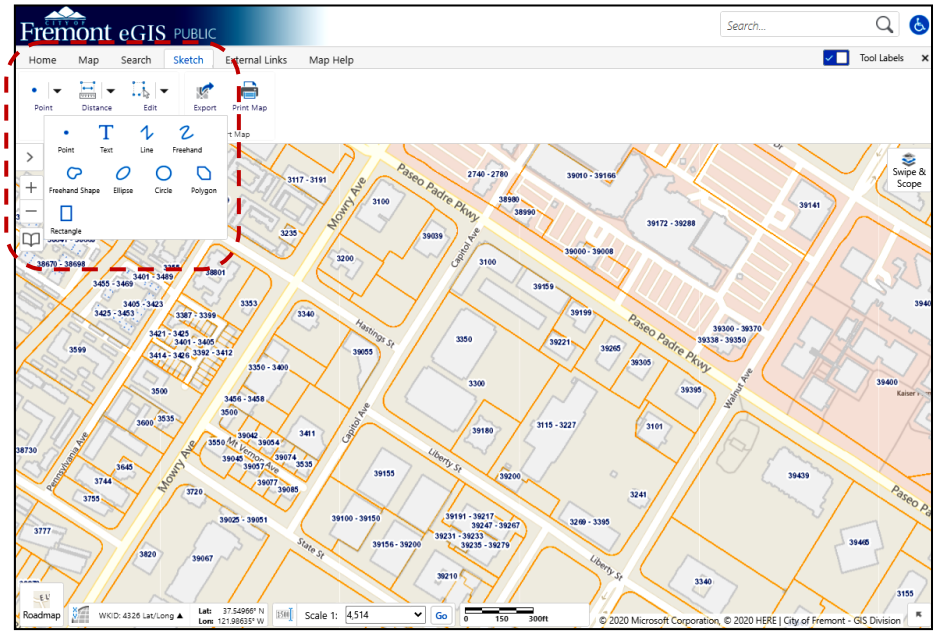
Sketching tools

2) Click on a sketch tool to select. *[Note: For this example, the POLYGON tool is selected.]*

1



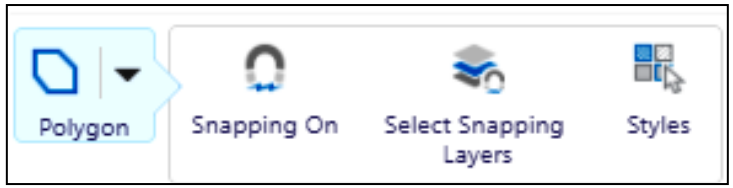
2



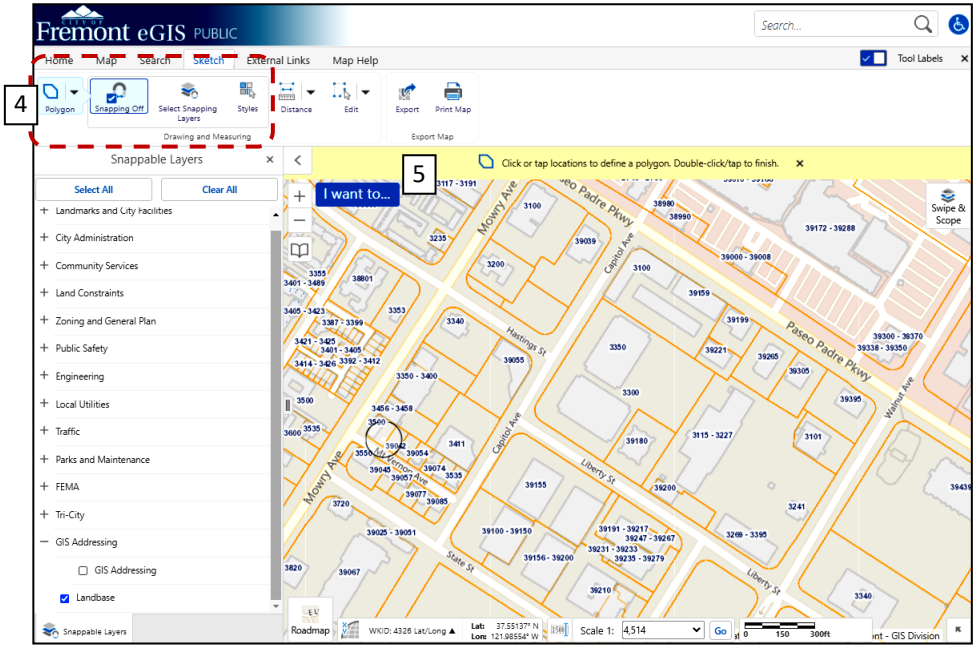
Sketch tab: Graphic Annotation *(continued)*

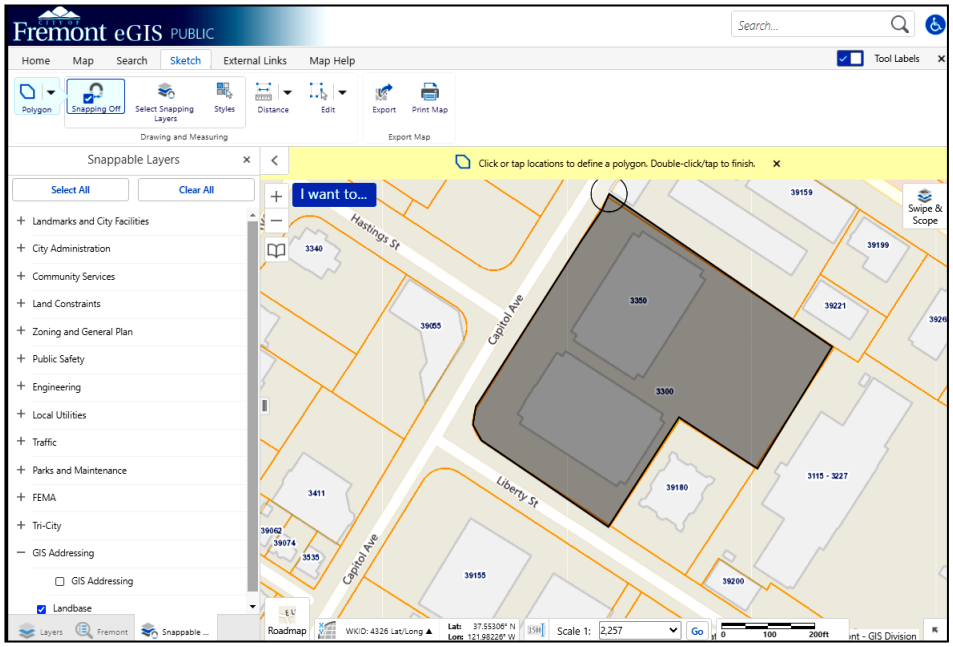
4) Depending on the tool being used, additional functionality may be provided. In this example, the POLYGON tool is selected. The ability to snap to a layer feature, select a snapping layer and line style is activated.

- *"Snapping Off" indicates that the drawn polygon lines will snap to the selected snapping layer.*
- *"Select Snapping Layers": A list of layers will appear when this widget is select. If you are tracing over the parcel lines, select the Landbase layers located under the Tri-City category. A focus snapping circle will appear as a guide.*
- *Under "Styles", select line thickness, style and color to be used when drawing the polygon.*

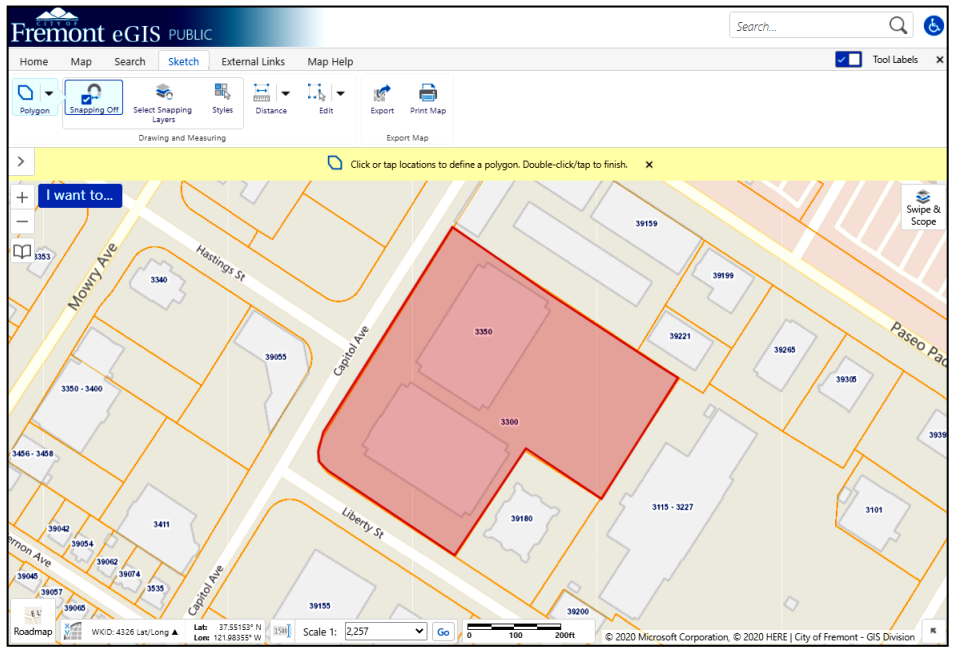


5) Follow the instructions on the use of the tool appearing above the map screen.





Drawing near completion. To finish and to close polygon, double click to finish.



Completed drawing.

Sketch Tab: Measurement - a general overview

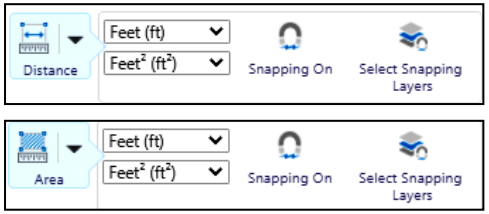
Tools for measuring distance and area are located under the Sketch Tab.

To measure:

1) Select DISTANCE or AREA from the Drawing and Measuring tool section.
[Note: The default tool displayed is DISTANCE. To change to AREA, click on down arrow to view available tools.]

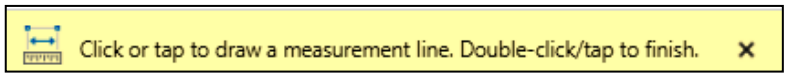
2) For better accuracy in the use of the tools, make sure to snap to the feature you are measuring .

- *"Snapping Off" indicates that the drawn polygon lines will snap to the selected snapping layer.*
- *"Select Snapping Layers": A list of layers will appear when this widget is select. If you are tracing over the parcel lines, select the Landbase layers located under the Tri-City category. A focus snapping circle will appear as a guide.*

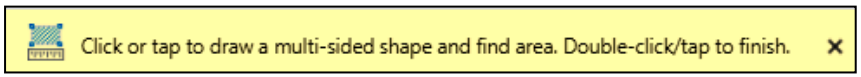


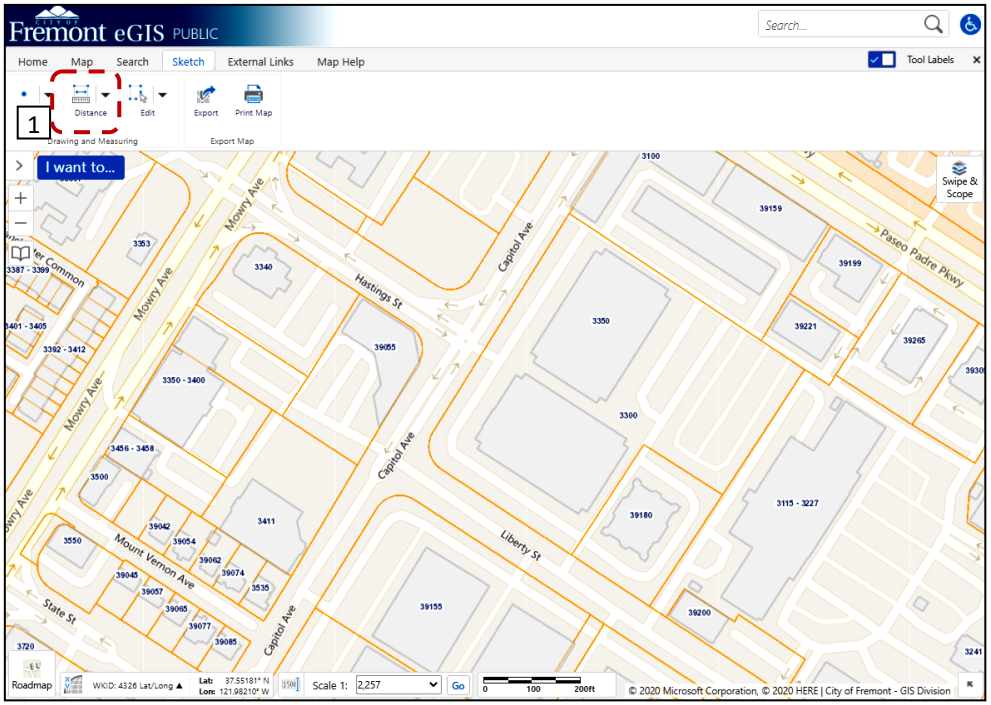
3) Follow the instructions on the use of the tool appearing above the map screen.

Distance measurement instructions

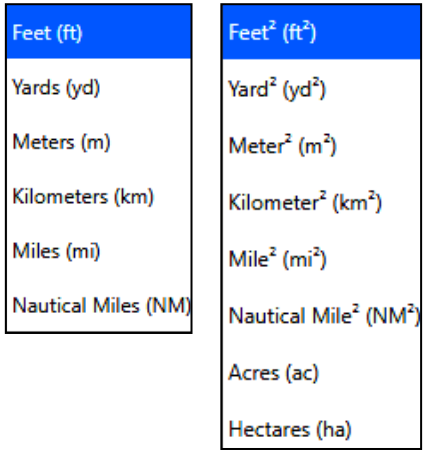


Area measurement instructions





Available unit of measurements

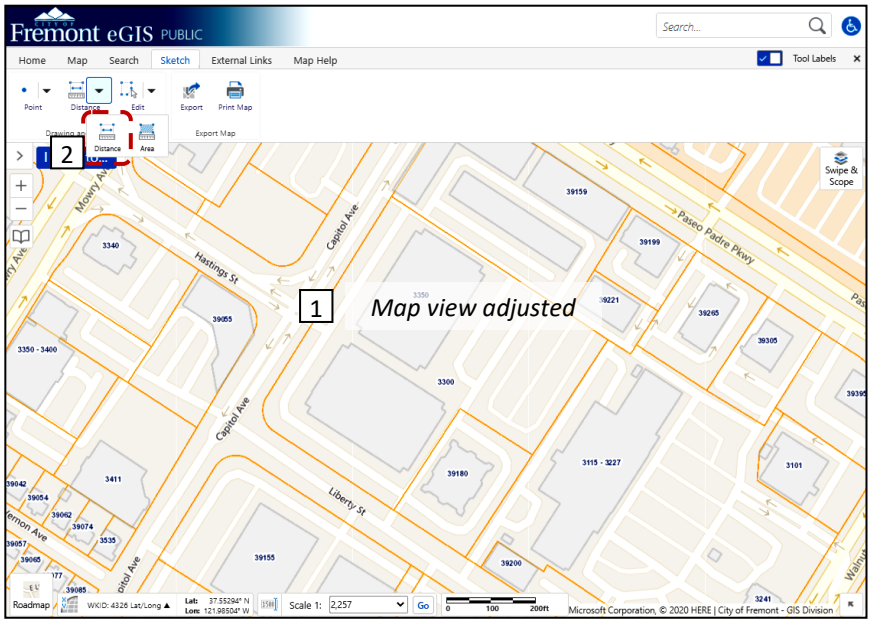


Sketch Tab: Measurement - to measure a distance or length

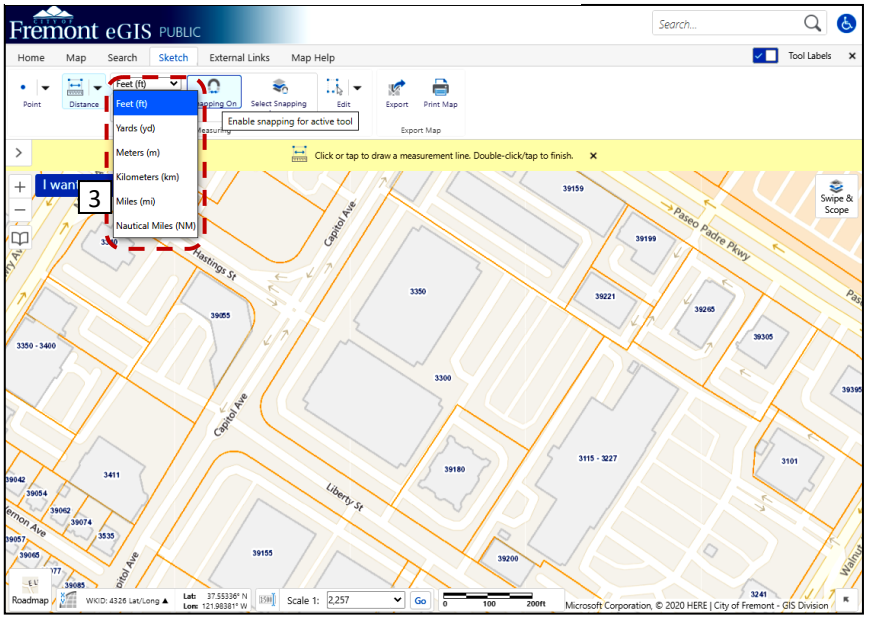
A how-to guide on measuring distance or length.

To begin measuring distance:

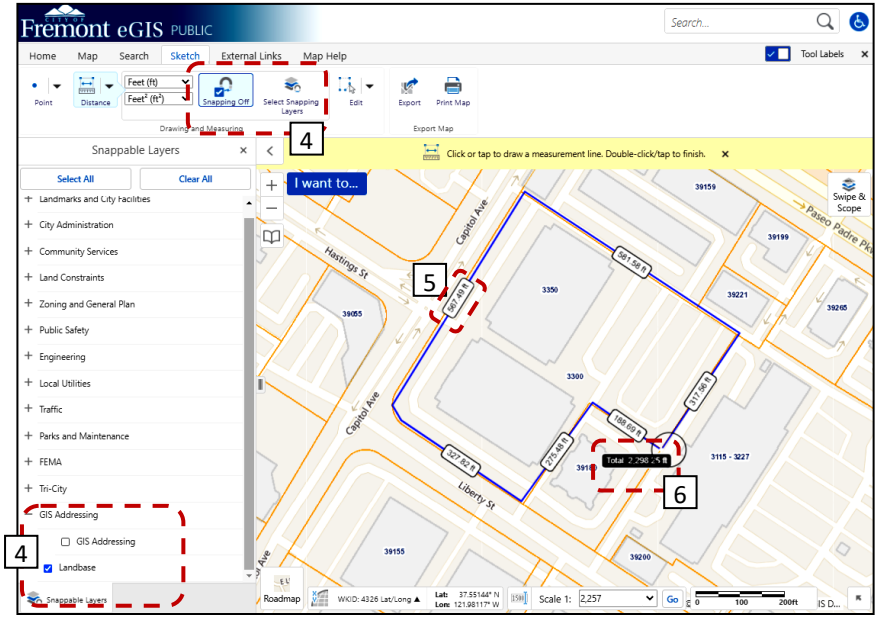
1) Make sure that map view is zoomed to desired location.
2) Select DISTANCE from the Drawing and Measuring tool section.



3) Select measurement unit from pull down menu.



4) Turn on SNAPPING LAYERS then click on SELECT SNAPPING LAYERS to choose desired layer. Since the example is to measure the **length of the property line** around 3300 Capitol Avenue, only the Landbase Layer needs to be turned on. All other layers have been cleared. *[Note: Snapping layers is turned on when label changes to "Snapping Off".]*
5) Following the directions located above the map view, click on starting point (i.e., such as the property line for this example) to start measuring. After each click, a measurement for the line will appear based on your selected unit of measurement.
6) When done measuring, double-click on your last location to stop. The total of the distance measured will appear.

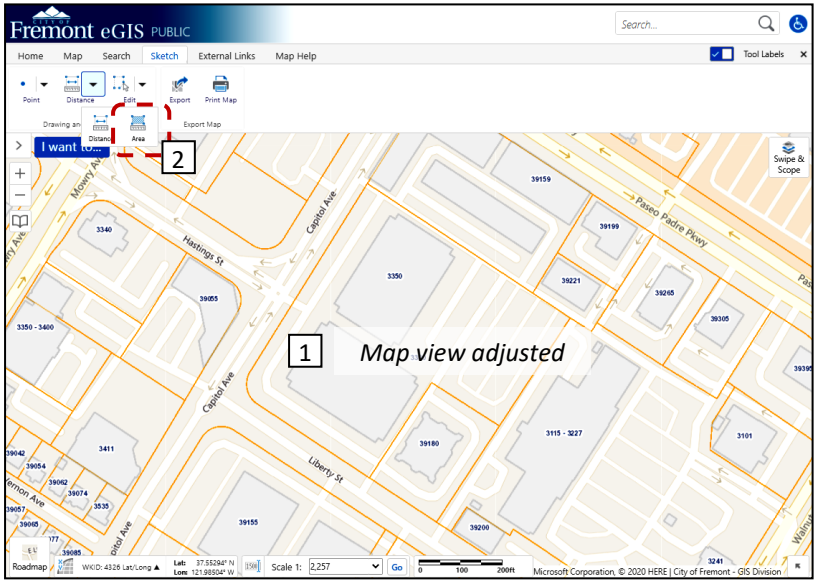


Sketch Tab: Measurement - measuring an area

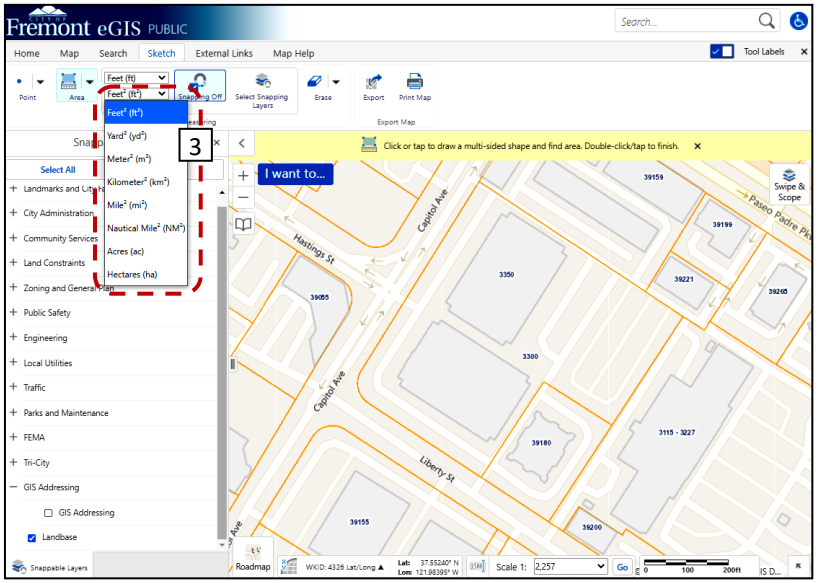
A how-to guide on measuring area.

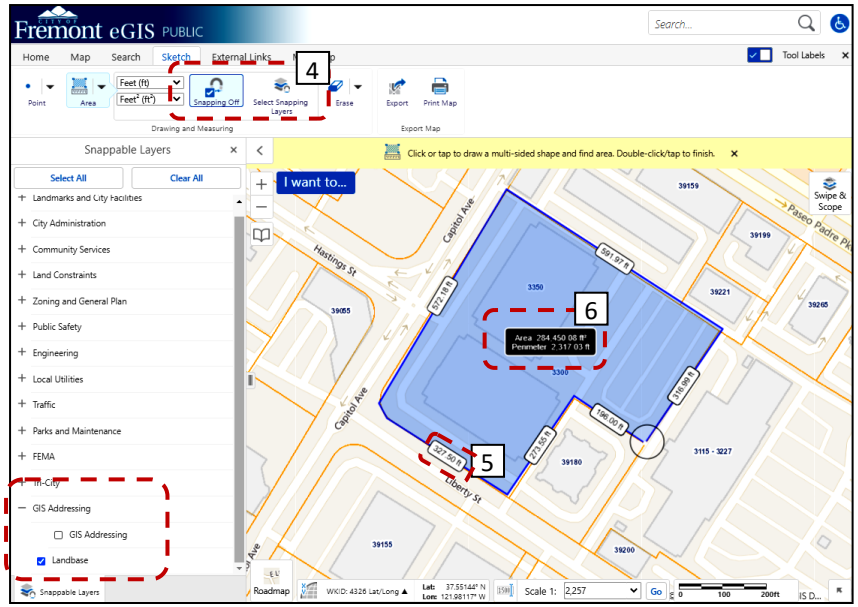
To begin measuring an area:

1) Make sure that map view is zoomed to desired location.
2) Select AREA from the Drawing and Measuring tool section.



3) Select measurement unit from pull down menu.





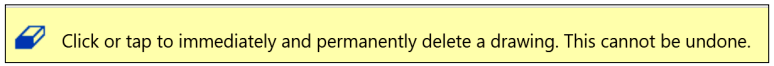
4) Turn on SNAPPING LAYERS then click on SELECT SNAPPING LAYERS to choose desired layer. Since the example is to measure the **area** of 3300 Capitol Avenue, only the Landbase Layer needs to be turned on. All other layers have been cleared. *[Note: Snapping layers is turned on when label changes to "Snapping Off".]*
5) Following the directions located above the map view, click on starting point (i.e., such as the property line for this example) to start measuring. After each click, a length for each property line will appear.
6) When done measuring, double-click on your last location to stop. The both the total distance of the perimeter as well as the area measured will appear.

Sketch Tab: To delete or edit annotations such as an user annotations, a drawing or plotted coordinates.

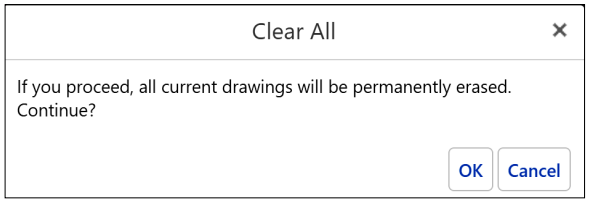
There are three tools available under the Drawing and Measuring section of the Sketch Tab which enables you to either edit, erase or to clear a drawing, plotted coordinates or an annotation.

Edit: To change the shape of a drawing. See instructions below.

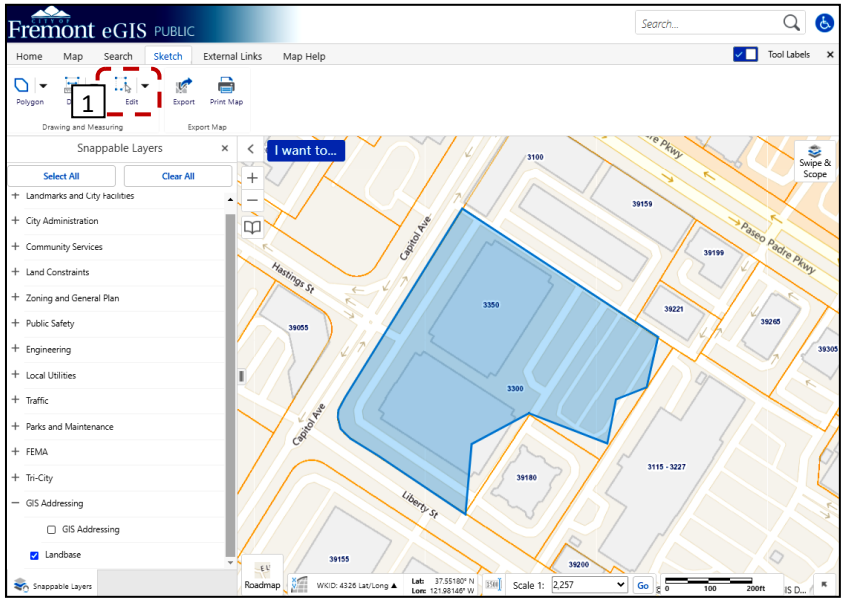
Erase: Remove a single annotation. Select Erase widget, then click on item to erase.

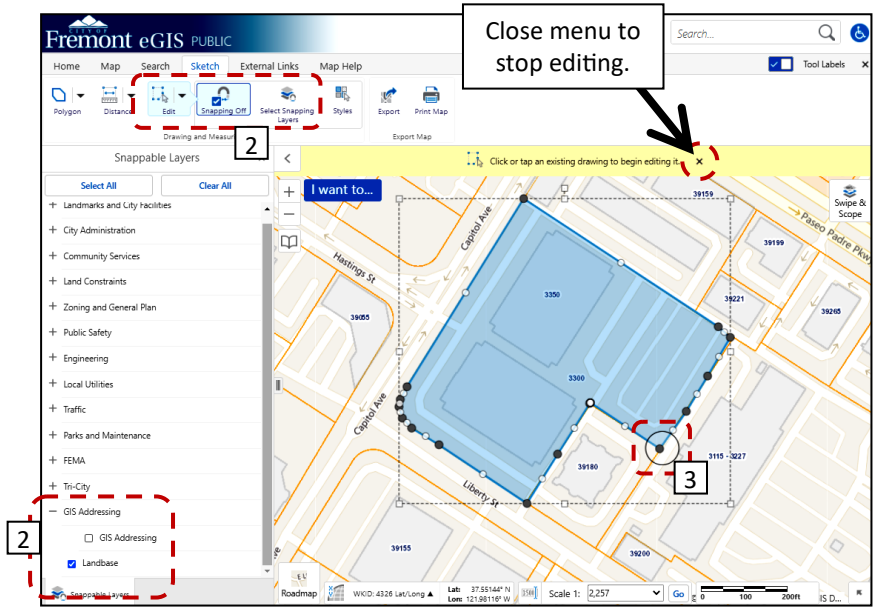


Clear: To remove multiple annotations in one move.



1) To edit or change the shape of a drawing, select the EDIT widget and click on the drawing
2) Once the drawing has been selected:
   A) Select "Snapping On" and "Select Snapping Layers" from the Tool Bar
   B) Select Snapping Layer from the Snappable Layers List in the left panel. Since the purpose of this drawing is trace the property boundary of 3300 Capitol Avenue, the Landbase Layer should be selected as the Snapping Layer.
      - *"Snapping Off" indicates that the drawn polygon lines will snap to the selected snapping layer.*
      - *"Select Snapping Layers": A list of layers will appear when this widget is select. If you are tracing over the parcel lines, select the Landbase layers located under the Tri-City category.*
3) Using the left mouse button, click and hold on drawing nodes to relocate/adjust lines. The focus circle helps to identify the location being worked on. When done, close editing menu instructions located above the map.





Sketch Tab: Export (to save map image)

Exporting function: Creates an image of the map window in various formats. An option is available to export the image to include the georeferenced data that can be used to import the image into a GIS program.

1) Click on Export located in the Export Map section of the Sketch Tab.

2) Select image format from the "Export a Map Image" window. If you wish to include georeferenced data, make sure to check the box INCLUDE GEOREFERENCE DATA.
   - BMP
   - JPEG
   - PNG
   - TIFF
   - GeoTIFF
   - PDF

   To finish action, click on CREATE IMAGE to export map image.

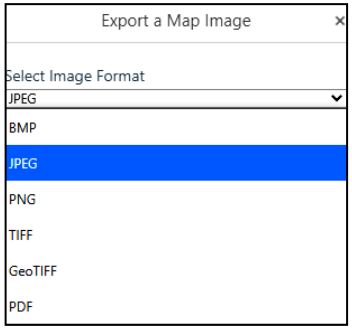
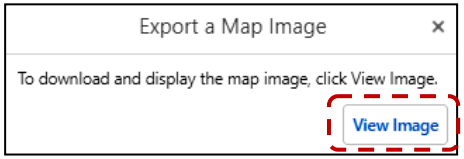
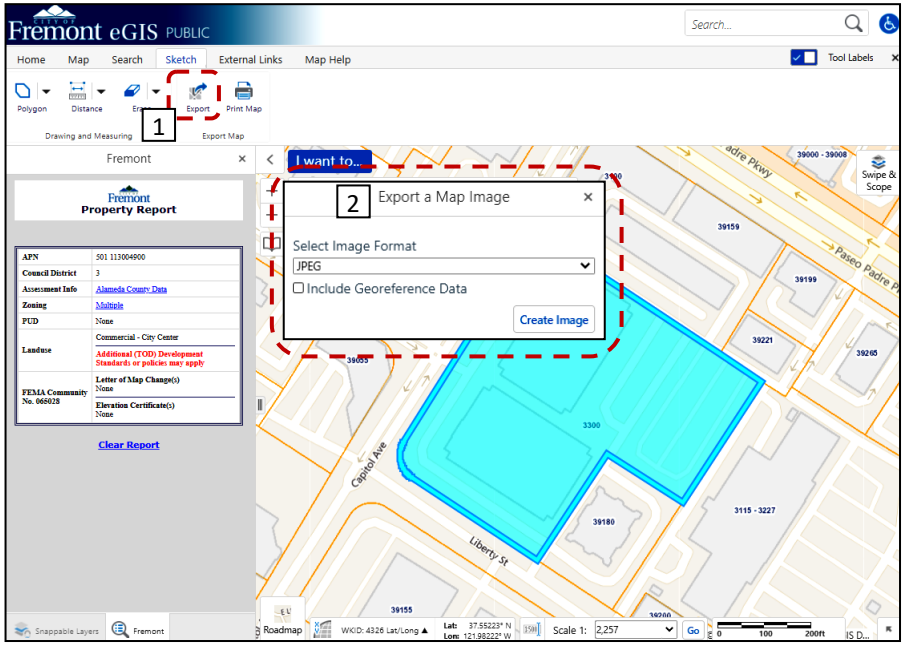
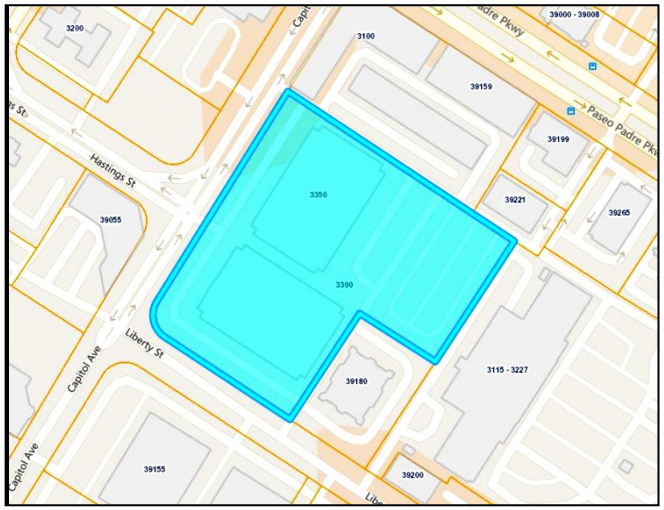


Image format list

3) When the image is ready to be downloaded, the "Export a Map Image window" will appear. Click on VIEW IMAGE to see final product.







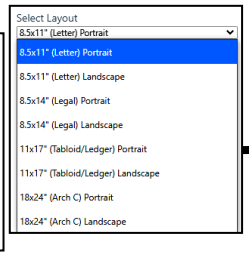
Final product - exported map image as a JPEG

Sketch Tab: Print Map

Printing function: The Printing function is available under the Sketch Tab. There are four different paper sizes available which are set at portrait or landscape orientation. The Output format is only available as a PDF which may be saved to your computer or sent directly to a printer. The default paper size is 8.5" X 11" (letter) - portrait view.

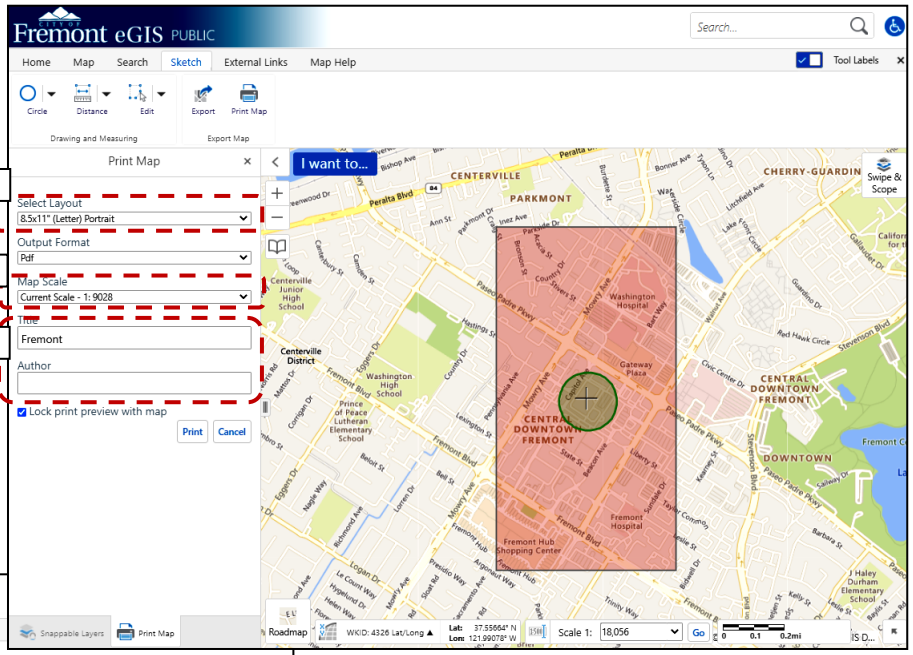
Step 1: Pick desired paper size and orientation.

Note: The focus box on the map shows area that will appear on the map.

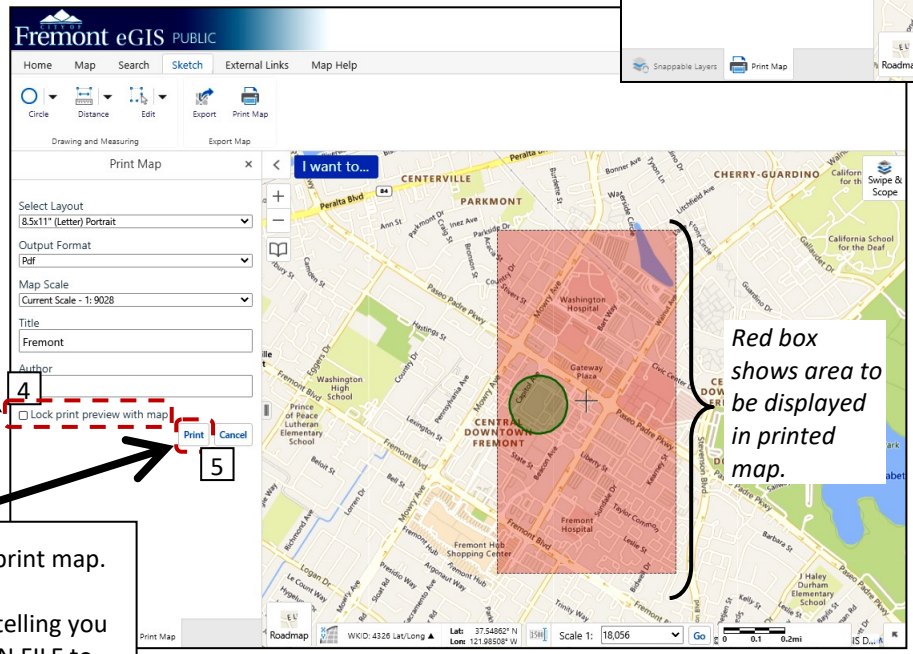


Step 2: Pick map scale for your map.

Step 3: If desired, add title and author.

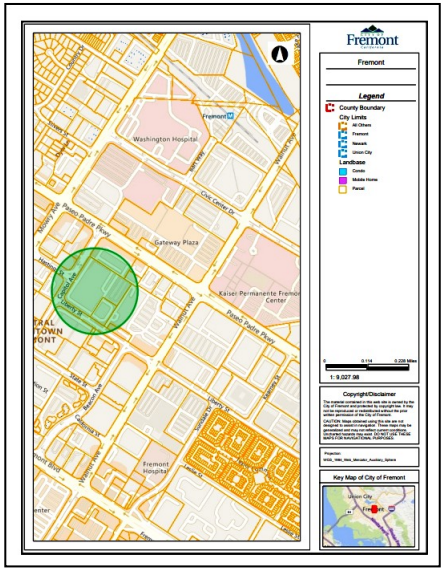


Step 4: If you need to move the focus box, uncheck "Lock print preview with map". Otherwise your selected print area will appear in the center of the focus box.



Step 5: To finish, click on PRINT to print map.

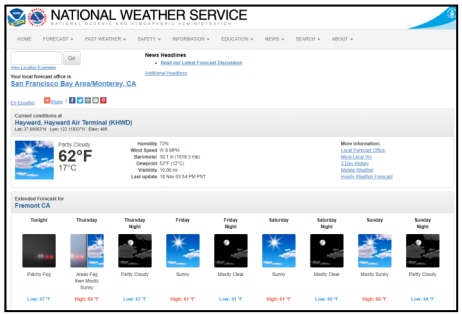
A message will appear in the panel telling you that the map is ready. Click on OPEN FILE to view the map.



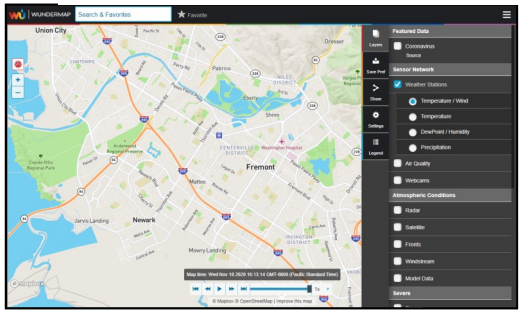
Final product
(PDF) map which can be saved or printed.

External Links Tab: Additional Resources

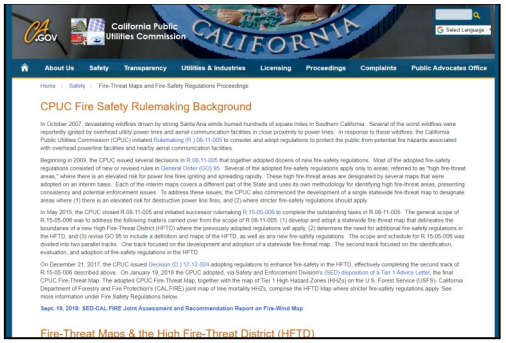
Links to external resources are made available under the External Links Tab in the Additional Resources section. The sites provide access to weather information, fire threat maps and Alameda County Assessor's Property Information.



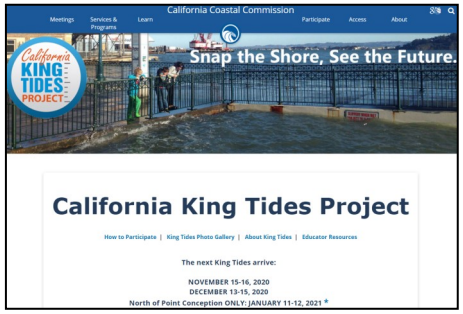
NOAA - National Weather Service
https://www.weather.gov/



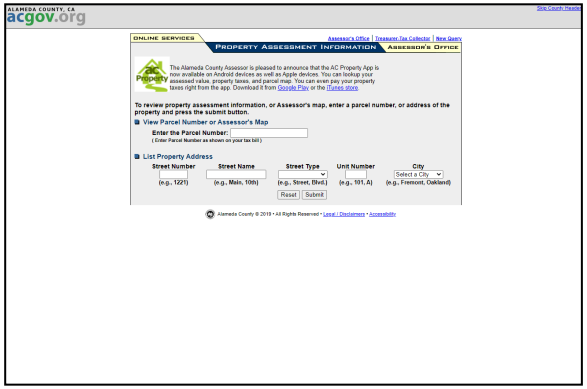
Weather Underground
https://www.wunderground.com/



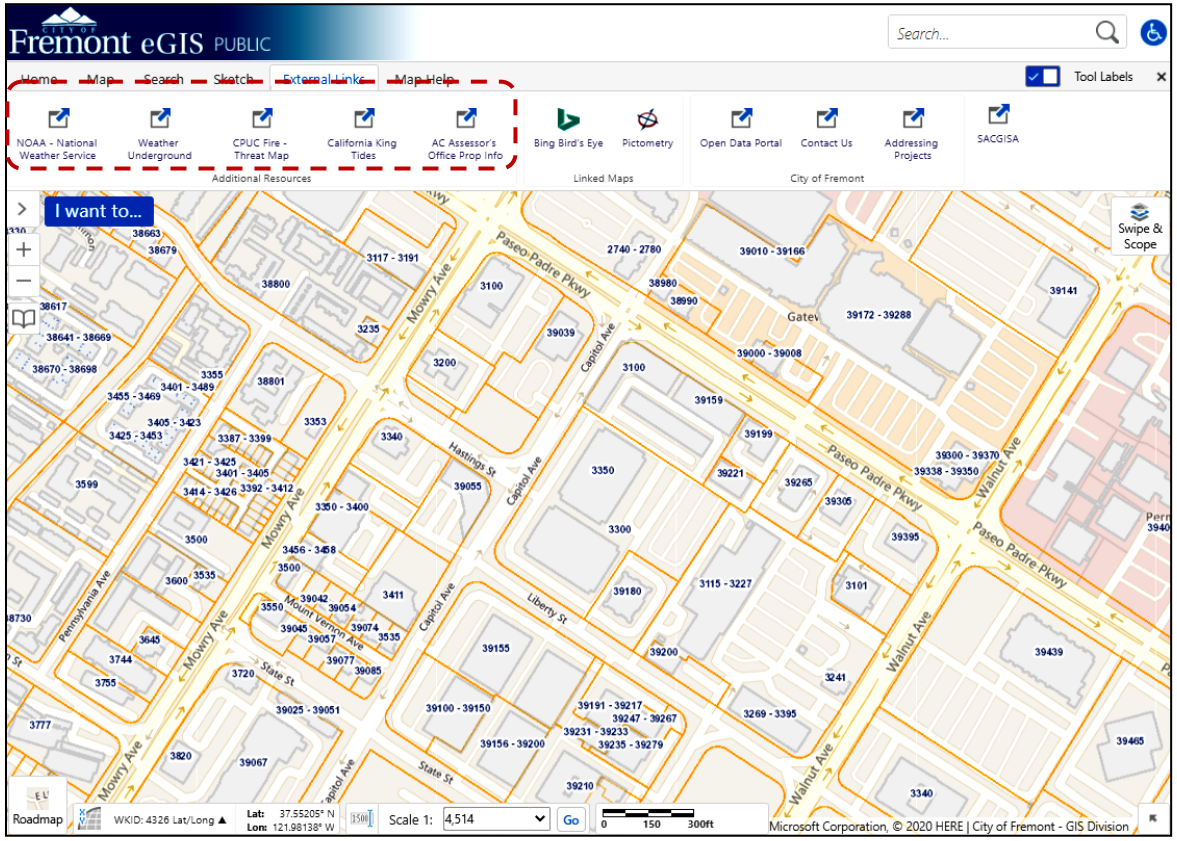
CPUC Fire-Threat Map
https://www.cpuc.ca.gov/FireThreatMaps/



California King Tides
https://www.coastal.ca.gov/kingtides/

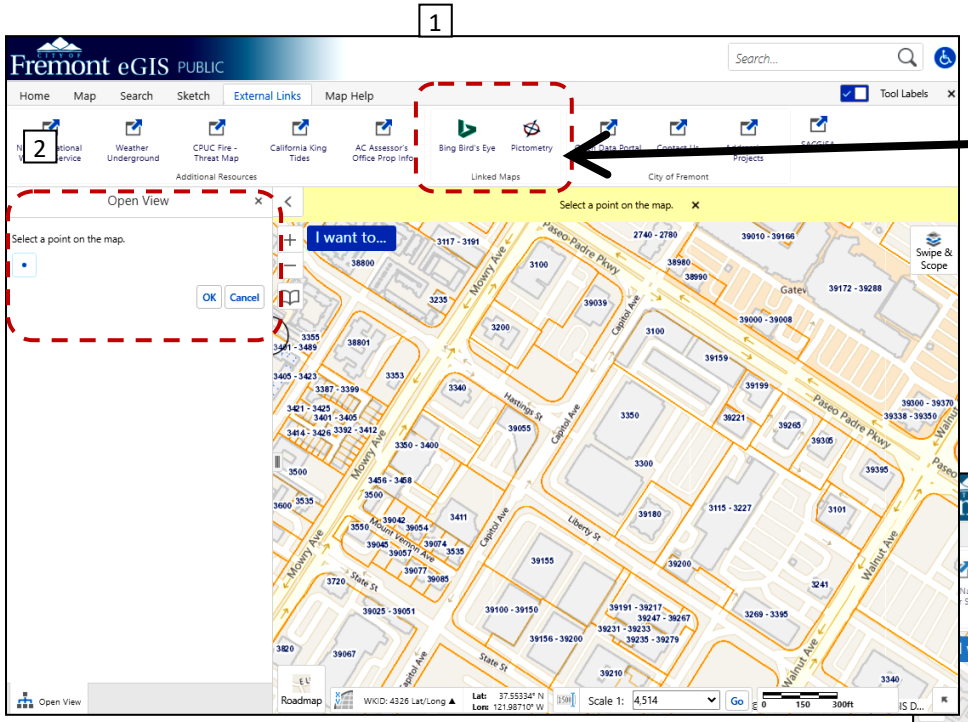


Alameda County Assessor's Office Property Info
http://www.acgov.org/MS/prop/



External Links Tab: Linked Maps (Bing Birds Eye & Pictometry)

Bing Birds Eye and Pictometry photos provide an aerial view near the street level.



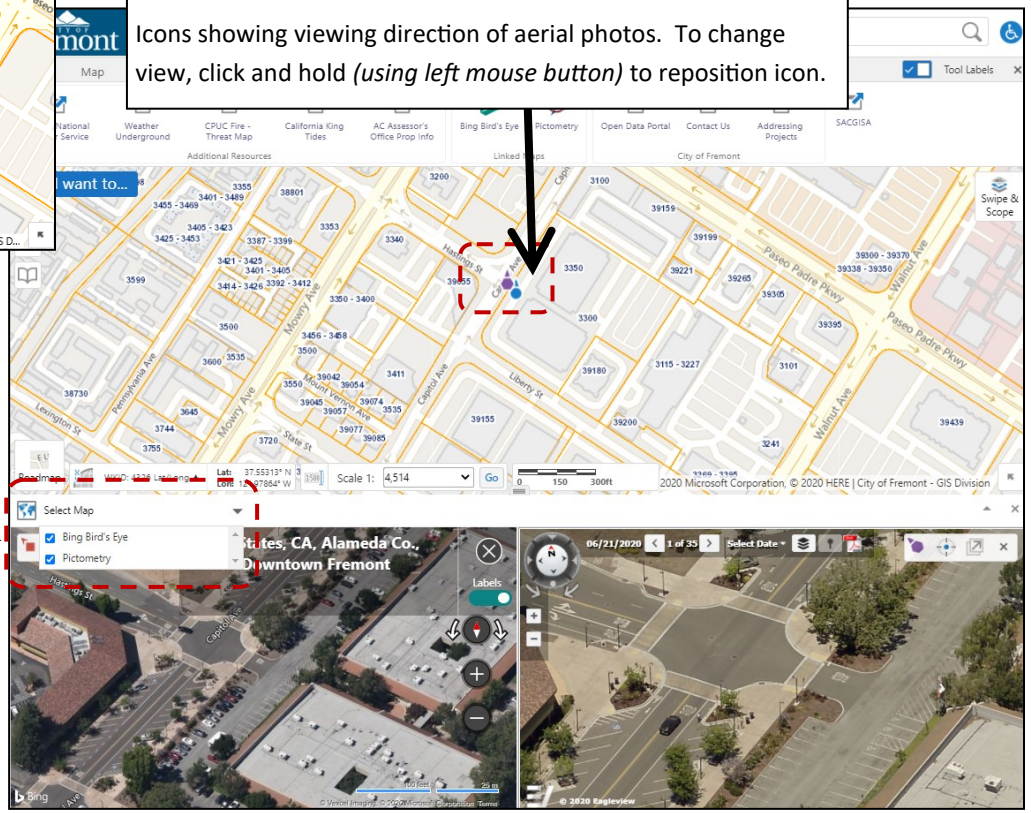
Aerials:

1) Access Bing Birds Eye or Pictometry by selecting its widget under the Linked Maps section of the external Links Tab. [Note: *They may also be accessed under the Right Click menu.]*
2) Following the instructions listed in the left panel, click on the map with the left mouse button to indicate the area where the aerial view is desired.

Icons showing viewing direction of aerial photos. To change view, click and hold *(using left mouse button)* to reposition icon.

To access additional aerials views:

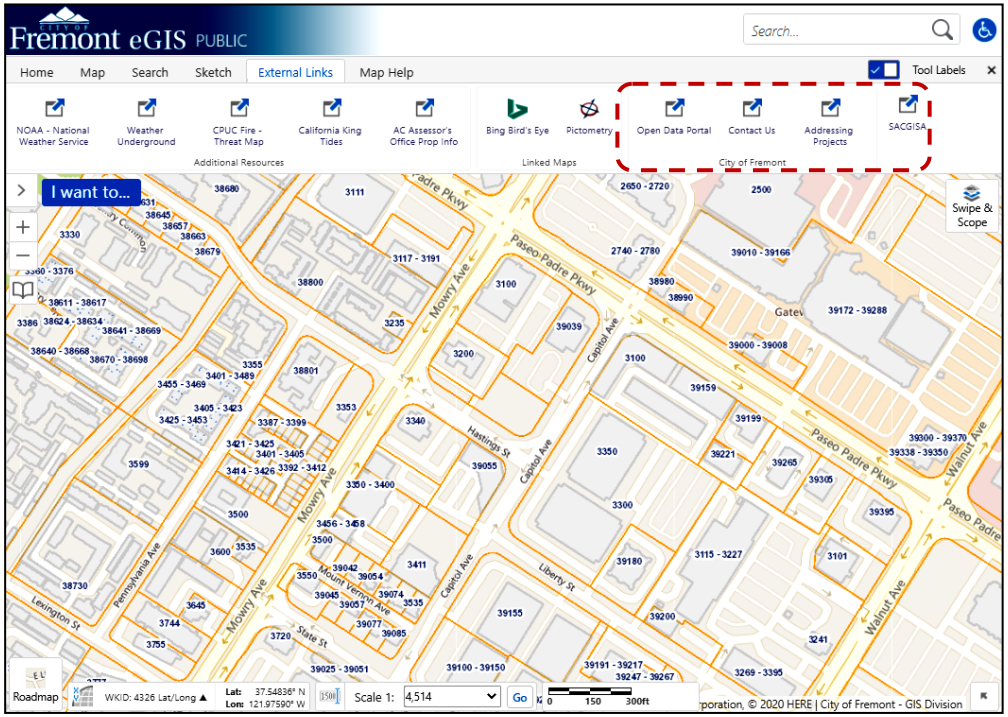
- Click on triangle to bring up "Select Map" menu.
- Check box for addition views. *[Note: This menu is only available when an aerial view is already in use.]*



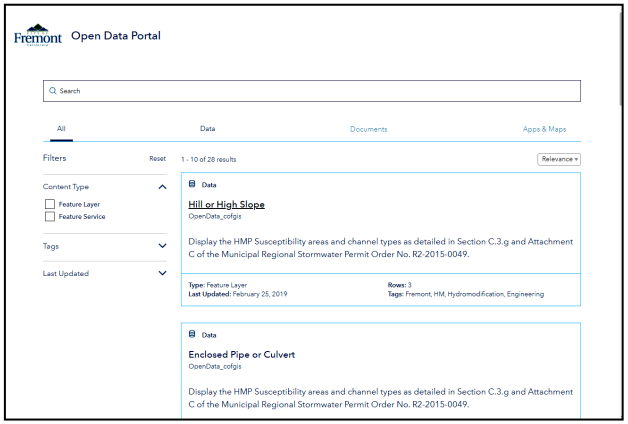
View showing Bing Birds Eye on the left and Pictometry on the right

External Links Tab: City of Fremont and SACGISA

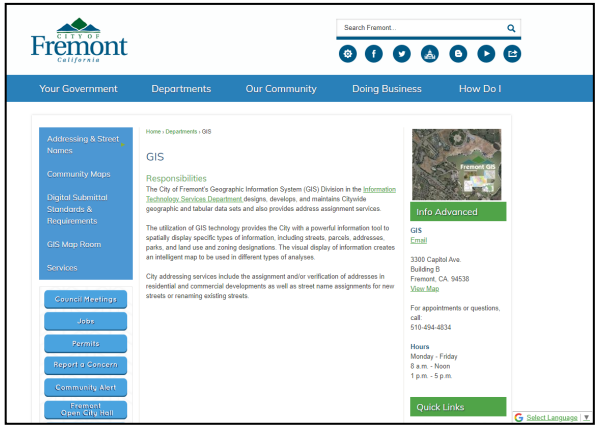
Access to three City of Fremont resources are available under the City of Fremont Section in the External Links Tab. Also provided, is a link to the Southern Alameda County GIS Authority (SACGISA) of which the City of Fremont is a member.



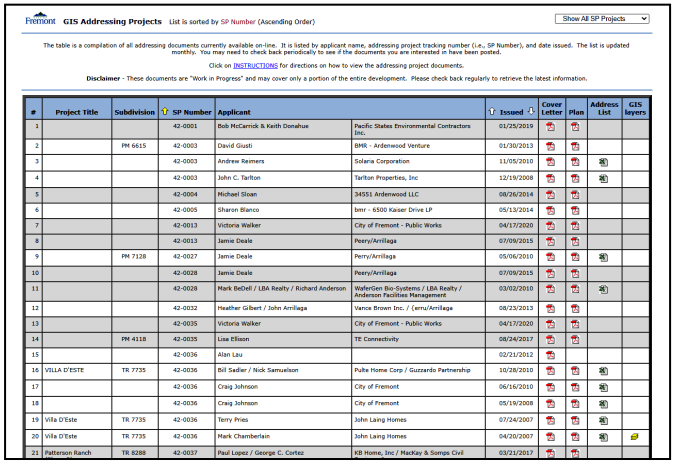
SACGISA—Southern Alameda County GIS Authority
https://sacgisa.org/



City of Fremont's Open Data Portal
https://open-data-portal-cofgis.hub.arcgis.com/search



City of Fremont—GIS Division
https://fremont.gov/590/GIS



City of Fremont—GIS Address Projects
http://gis.ci.fremont.ca.us/addr/addr_proj.cfm

Map Help

The Map Help tab contains links to online help reference guides on the use of the eGIS Public website.

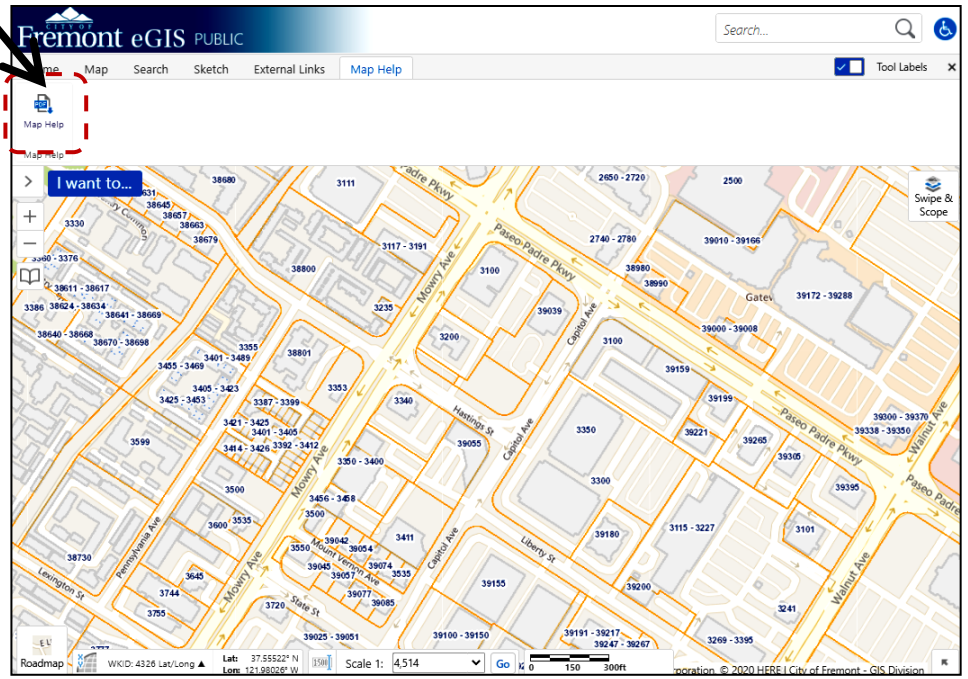
Listing of available Help Guides:

- Help Guide (complete manual)

- Help Guide - individual sections
  - eGIS Public - a general overview
  - Home Tab
  - Home Tab: Find data by clicking directly on the screen
  - Home Tab: What's Here - Freehand Polygon, Freehand Line and Rectangle (graphic selection tools)
  - Home Tab: Enable Add Results and Enable Subtract Results
  - Home Tab: What's Here– Identifiable Layers
  - Map Tab: Layers List
  - Map Tab: Plot Coordinates
  - Search Tab: General - Address, Parcel and Street searches
  - Search Tab: Landmarks & City Facilities searches
  - Search Tab: Engineering searches - CIP Projects & Monument Inventory
  - Sketch tab: Graphic Annotation
  - Sketch Tab: Measurement - a general overview
  - Sketch Tab: Measurement - to measure a distance or length
  - Sketch Tab: Measurement - measuring an area
  - Sketch Tab: To delete or edit annotations such as an user annotations, a drawing or plotted coordinates.
  - Sketch Tab: Export (to save map image)
  - Sketch Tab: Print Map
  - External Links Tab: Additional Resources
  - External Links Tab: Linked Maps (Bing Birds Eye & Pictometry)
  - External Links Tab: City of Fremont and SACGISA
  - Map Help
  - I want to….
  - Bookmark current map extent
  - Right Click menu
  - Basemap Selections
  - Changing the Map Scale
  - Swipe & Scope
  - Results Table - a general overview

- Quick Reference

Map Help widget



I want to….

The “I want to…” menu provides a short cut to the more frequently used features also listed under the Tabs.

Listing of functions and where they are also available:

1) Home Panel:
   - Welcome Page

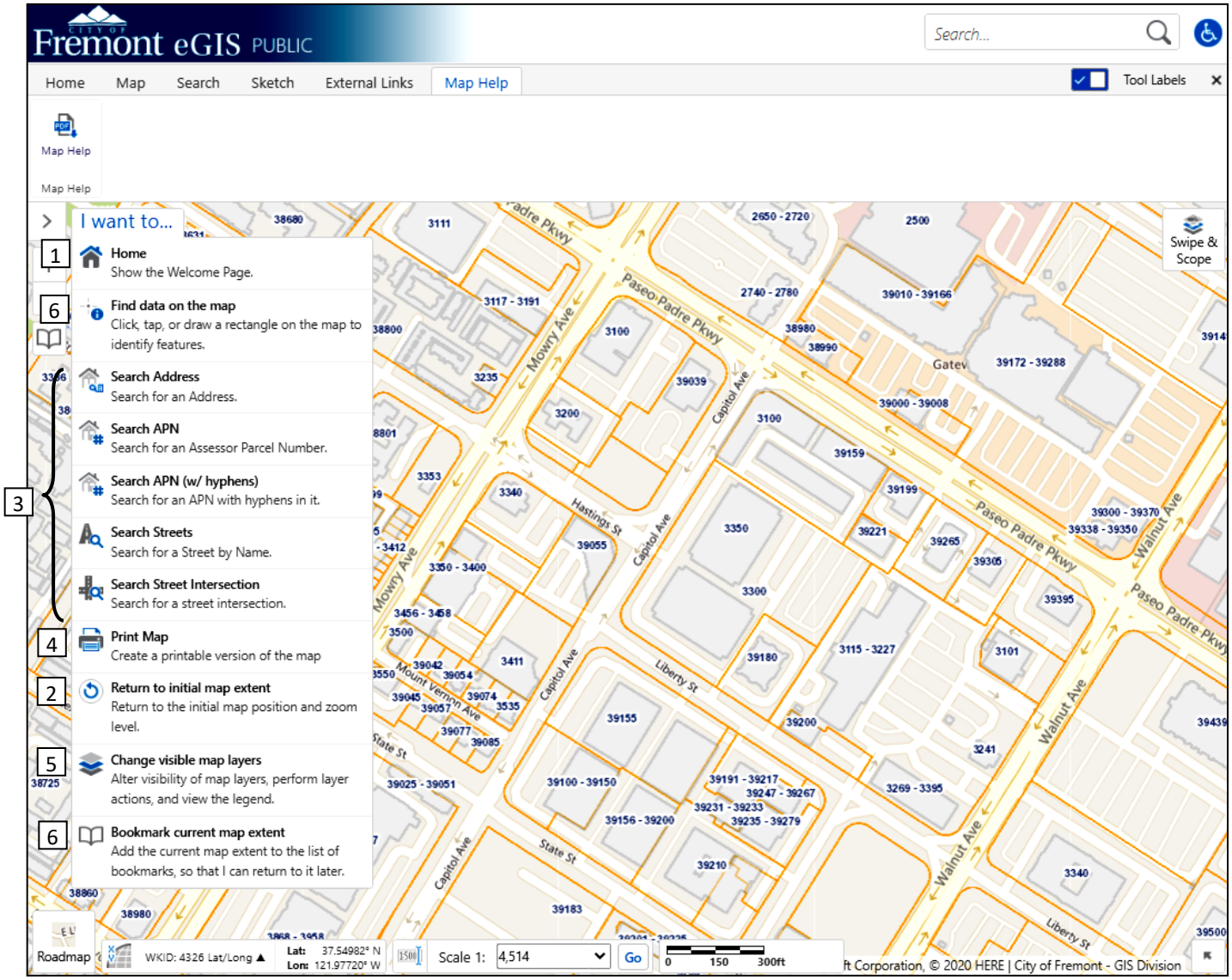
2) Home Panel:
   - Return to initial map extent

3) Search Tab:
   - Search Address
   - Search APN
   - Search APN(w/hyphen)
   - Search Streets
   - Search Street Intersection

4) Sketch Tab
   - Print Map

5) Map Tab
   - Change visible layers

6) Items available only on the “I want to…” menu
   - Find data on the Map
   - Bookmark current map extent



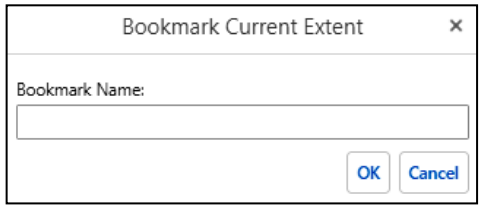
Bookmark current map extent

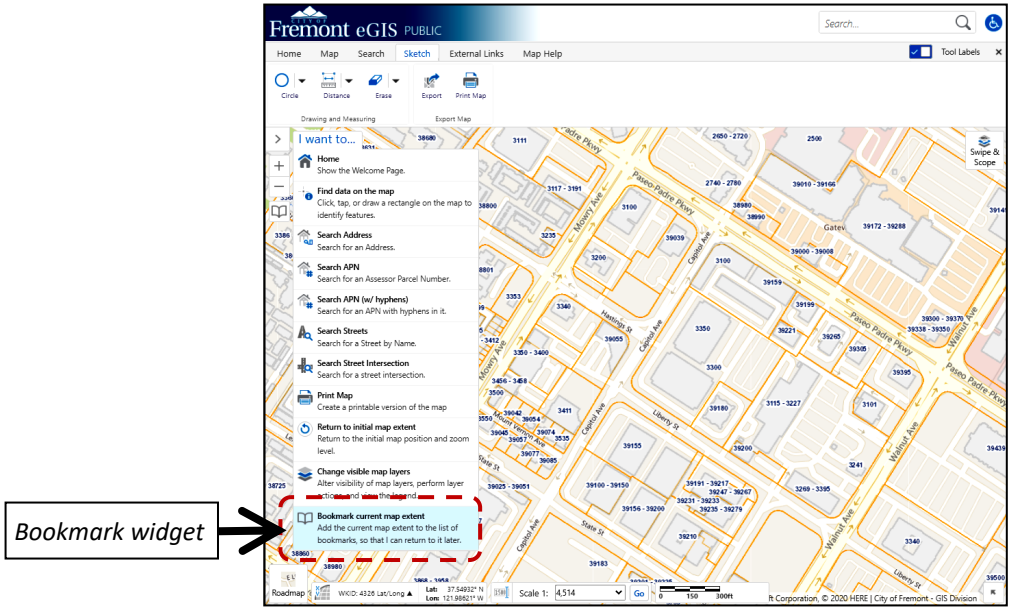
If you wish to save the location and extent of your map view so that you can return to the same location at a later time, use the "Bookmark current map extent" feature. It is located under the "I want to…" menu. *[Note: Map location only is saved under this feature. It does not be save layer or search information.]*

To Bookmark a location

1) Adjust map view to show the area you wish to bookmark. If desired, adjust zoom scale.
2) Under the "I want to…" menu, find the Bookmark current map extent" located at the bottom of the menu list.
3) A window will appear *(shown as follows)* where you enter in the name for the bookmark. Click on OK when done.

   The maximum number of characters that can be entered is 49.



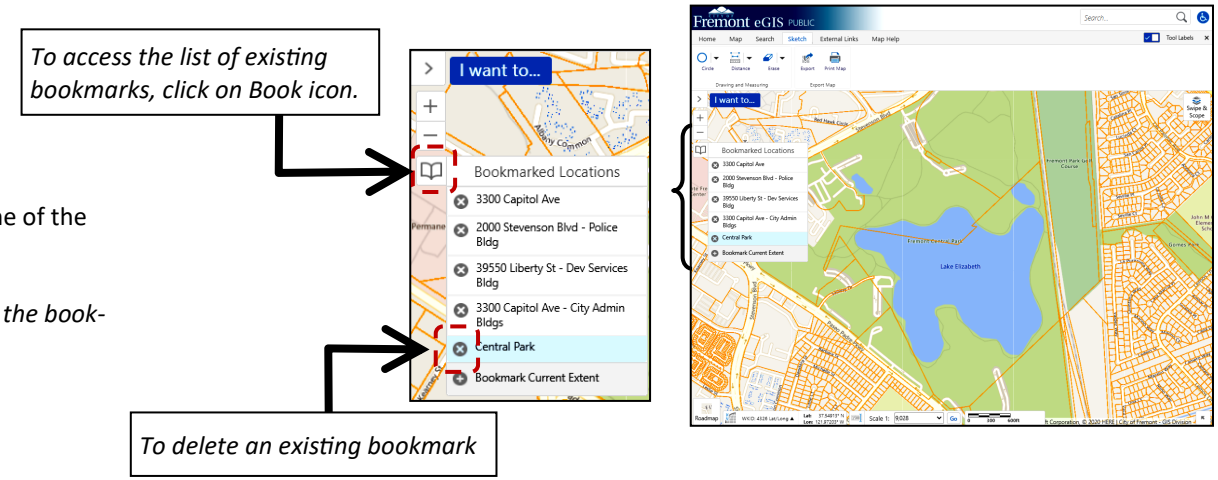


To access existing bookmarks

1) Click on Book Icon.

2) A listing of your saved bookmarks will appear. Click on one of the bookmarks to bring up saved location.

Note: To delete an existing bookmark, click on the "X" next to the bookmark you want to delete.



Right Click menu

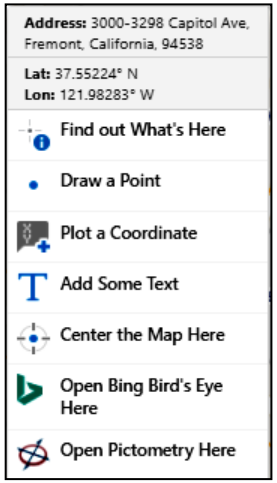
The “Right Click” menu provides an additional short cut to the more frequently used features listed under the Tabs or the “I want to…” menu. It requires that the specific location is click on with the right mouse button.

To activate the “Right Click” menu, click on the map view using the right mouse button on the location you wish to interact with.

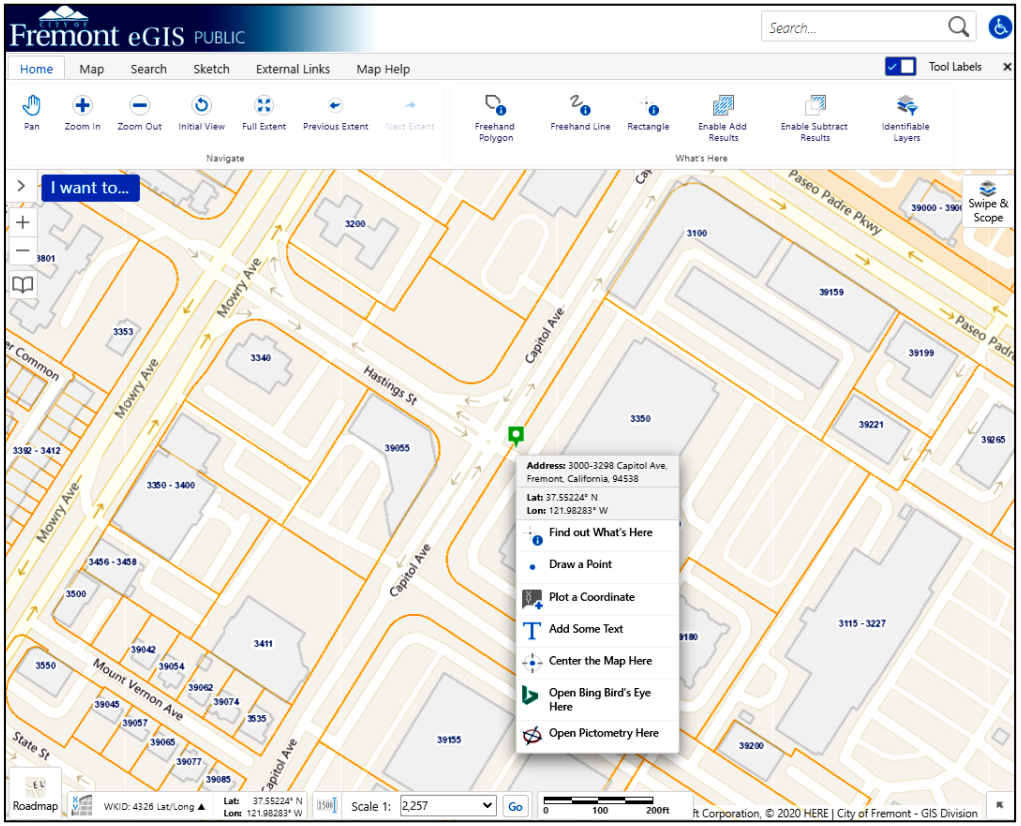
An icon will appear marking the location along with the Right Click Menu.

Icon marking location

Right Click Menu



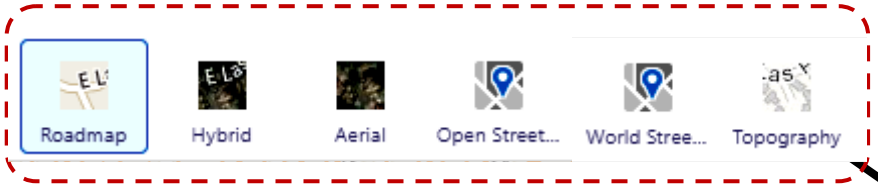
[Note: “Find out What’s Here” should be used when the icon marking the location ihas been placed on a location with an identifiable layer has been turned on.]

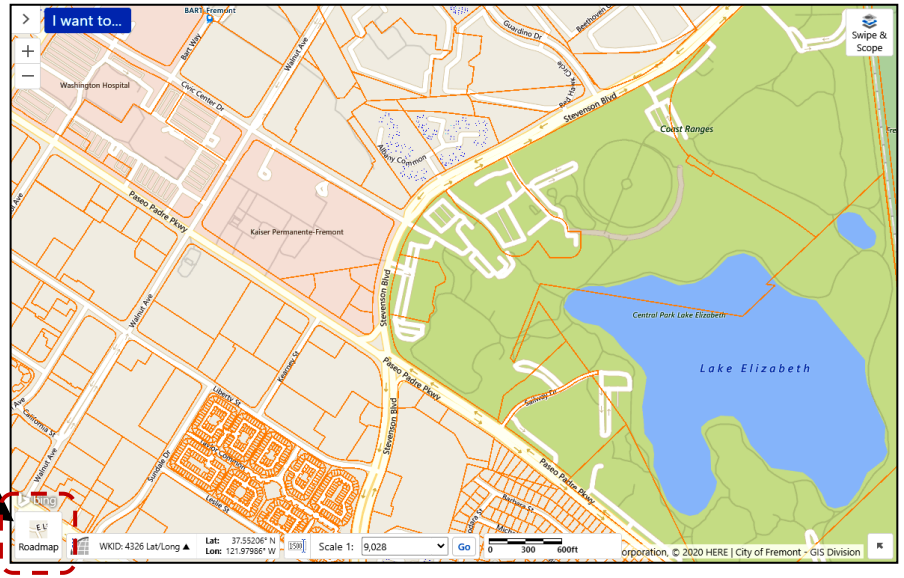


Basemap Selections

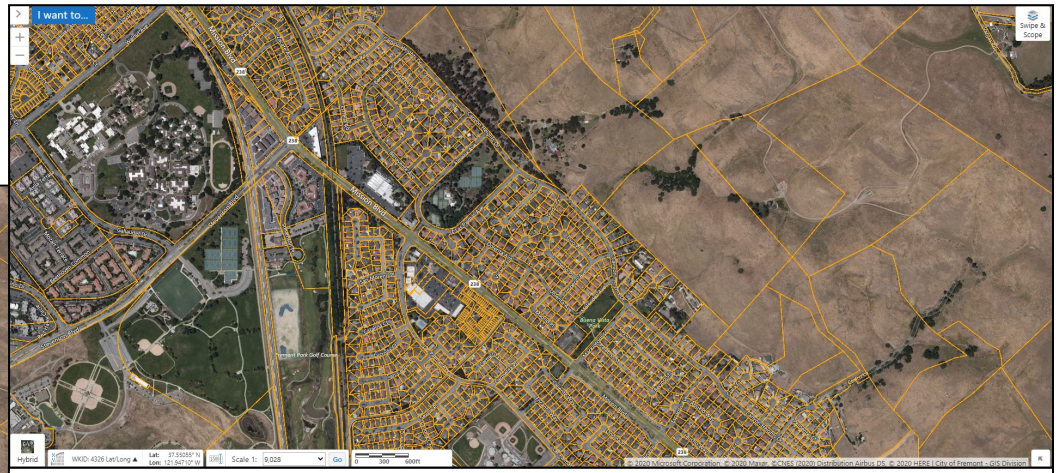
A variety of basemaps are available for use in the map view. Select a basemap style from a generic roadmap to a topography map which can show the surrounding terrain.

To change Basemap: Click on Basemap icon to change basemap used on map. Select by clicking on Roadmap, Hybrid, Aerial, Open Street, World Street or Topography icon.





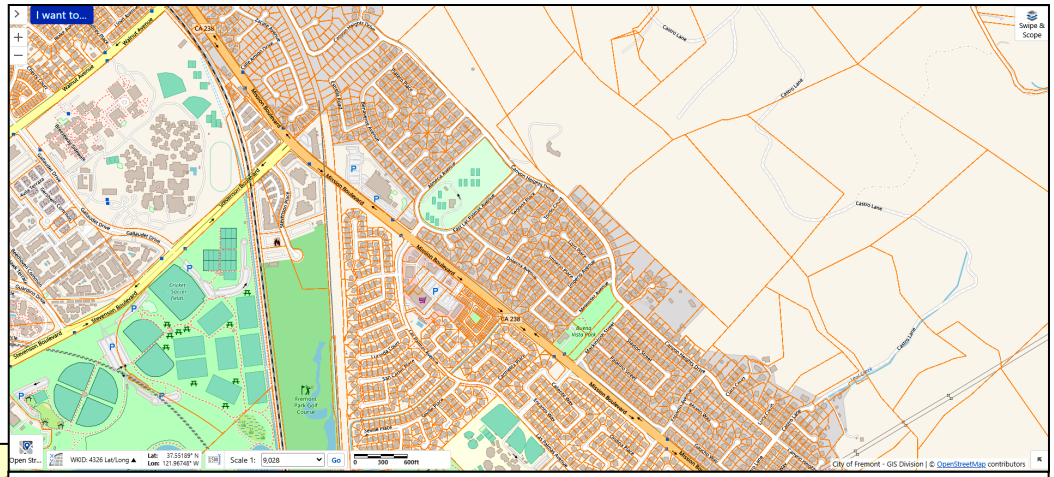
Roadmap



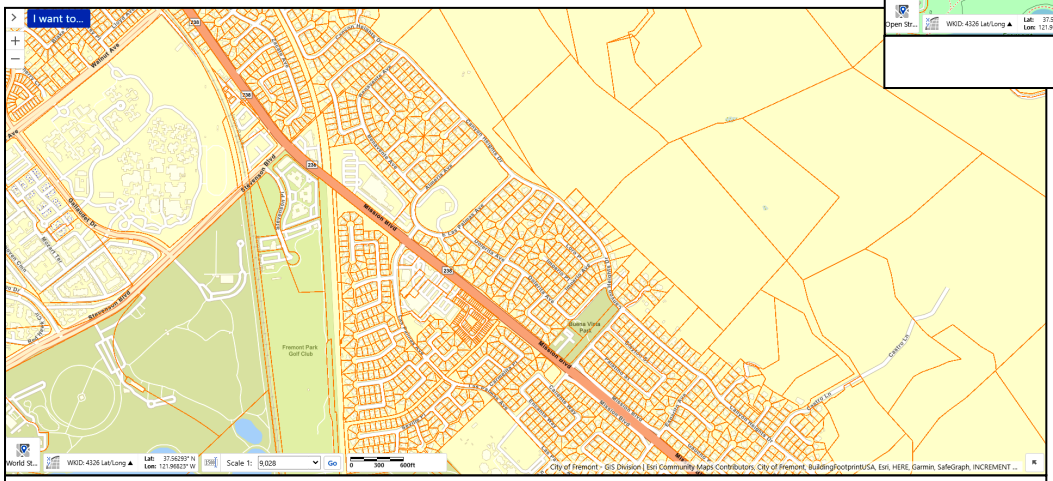
Hybrid (Aerial photo with street names)

Hybrid (Aerial photo with no street names)

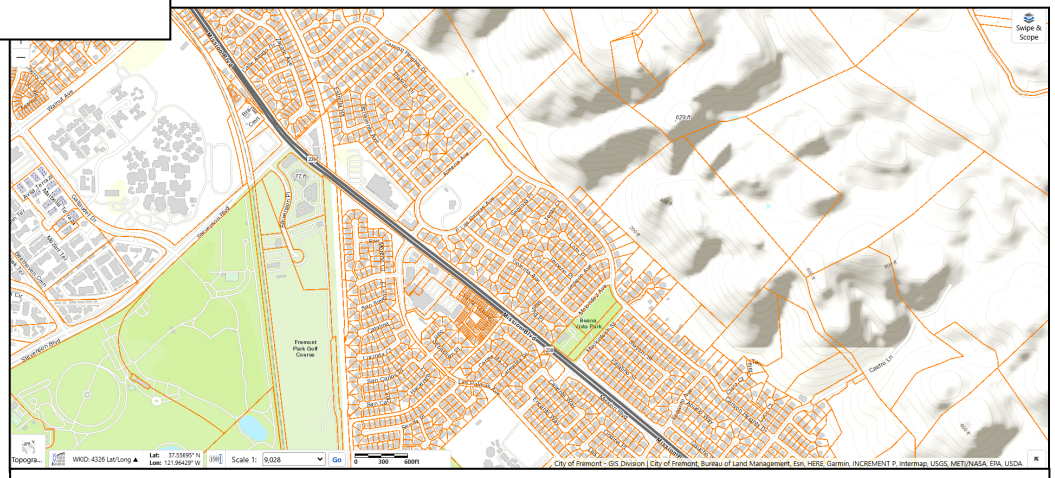
Basemap Selections (cont.)



Open Street



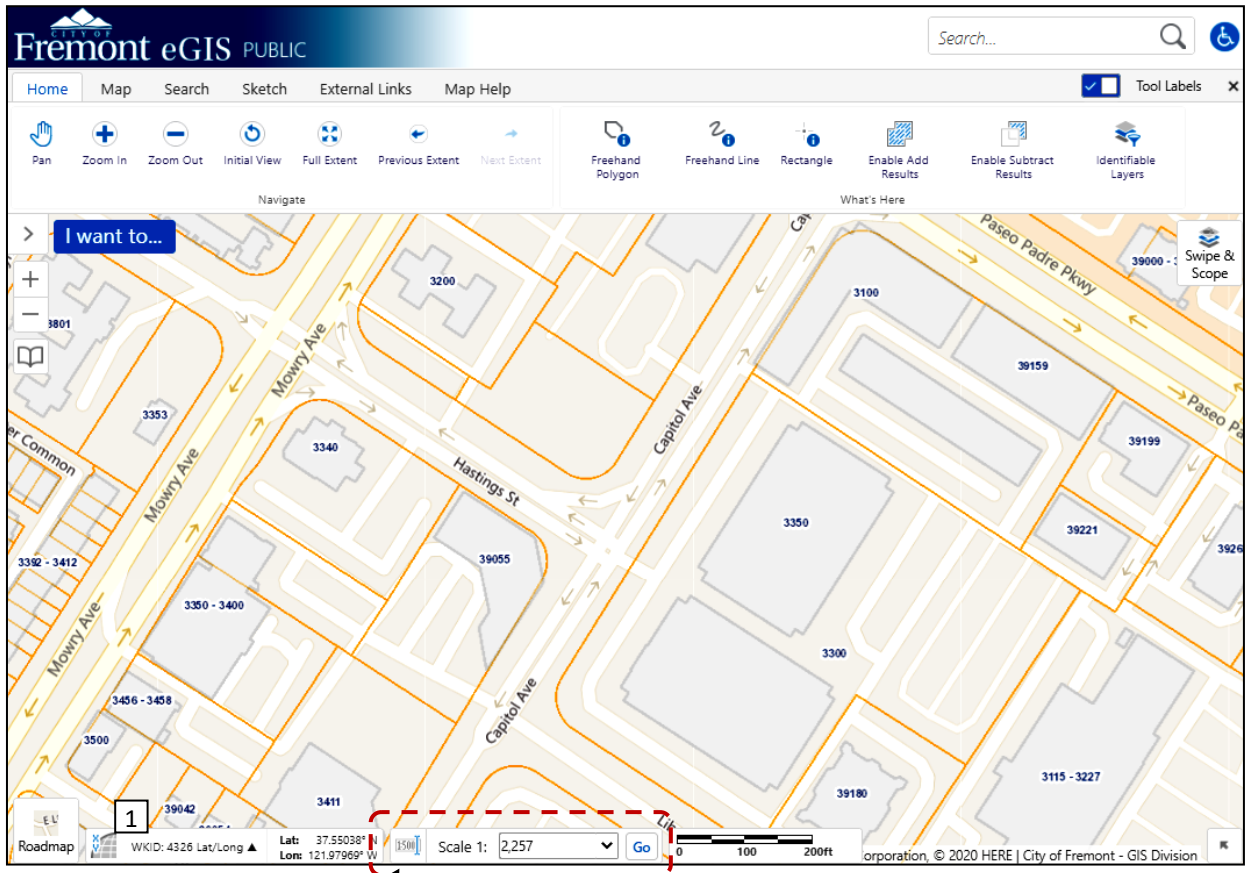
World Street



Topography

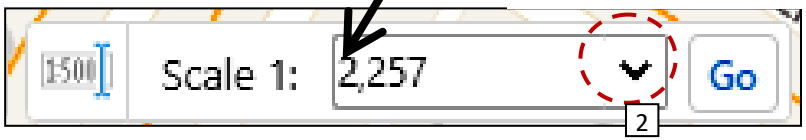
Changing the Map Scale

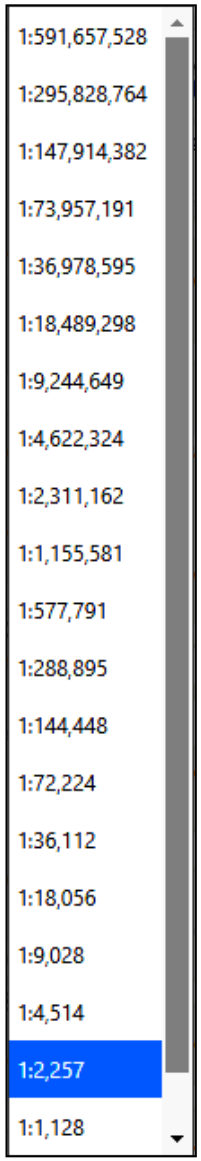
Adjusting Map Scale of map view: The default map scale may be changed through the Scale Input Box so that map view can be returned to the same scale after numerous zoom changes.



1) Click on Map Input Box to open Scale Selector.

2) Current map scale is shown. To change, click on chevron to open list. Once a different map scale is selected, the map will automatically change to that scale.

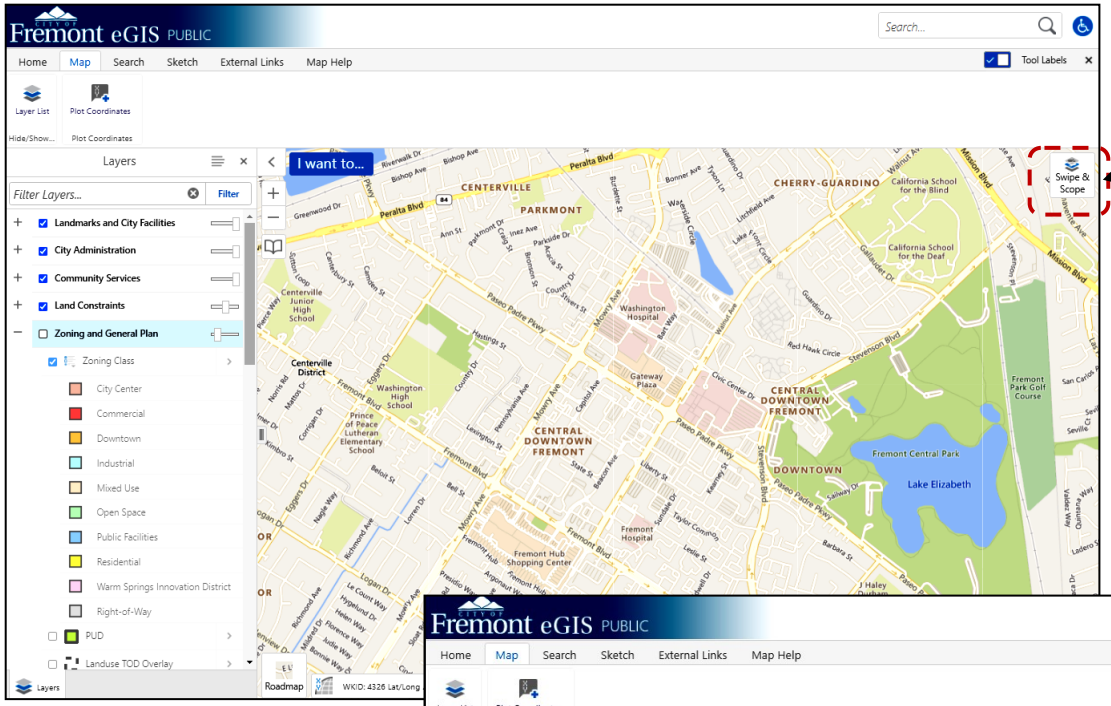




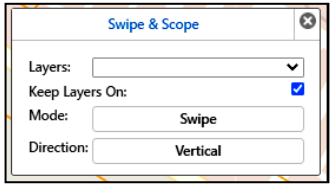
Map Scale list (sample)

Swipe & Scope

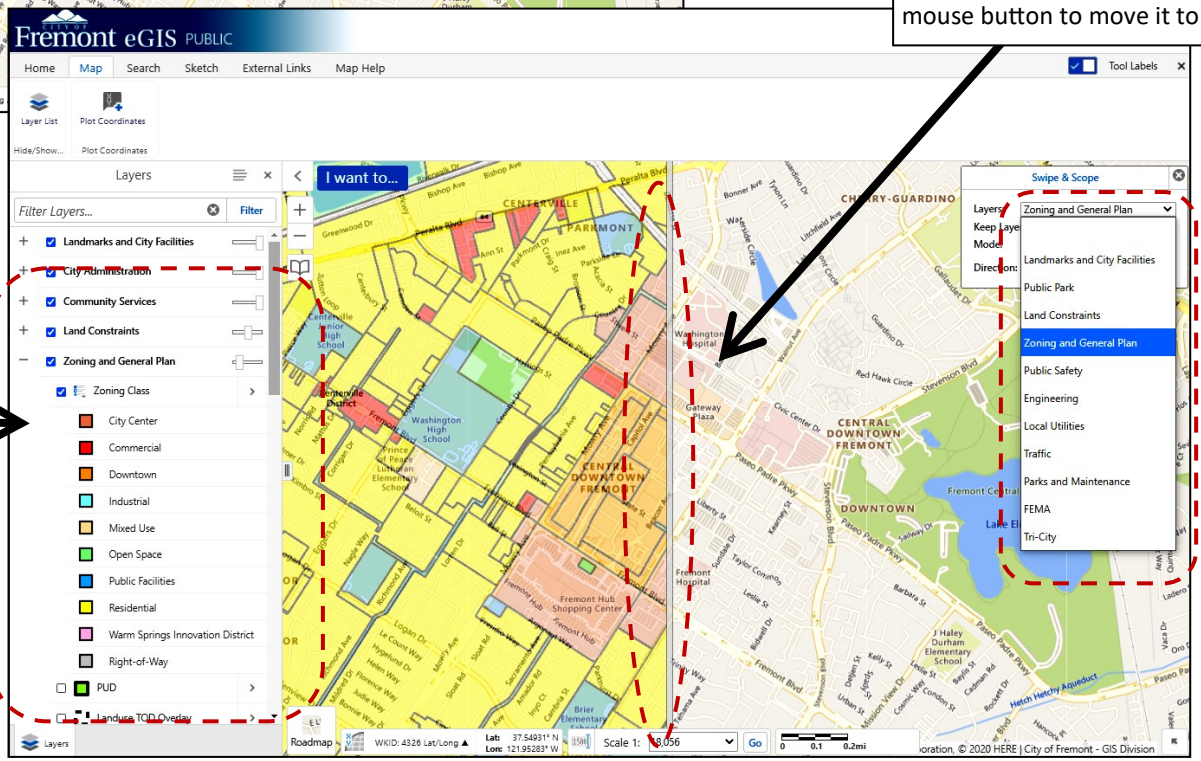
The Swipe & Scope function allows you to interactively view a layer of information over another.



Click on the Swipe & Scope widget to bring up a menu select the layer that will appear over the map view and to select the mode/direction of the swipe action.



Hold down the swipe bar with the left mouse button to move it to the left/right.



Make sure that only the layer you wish to use is selected in the Layers list.

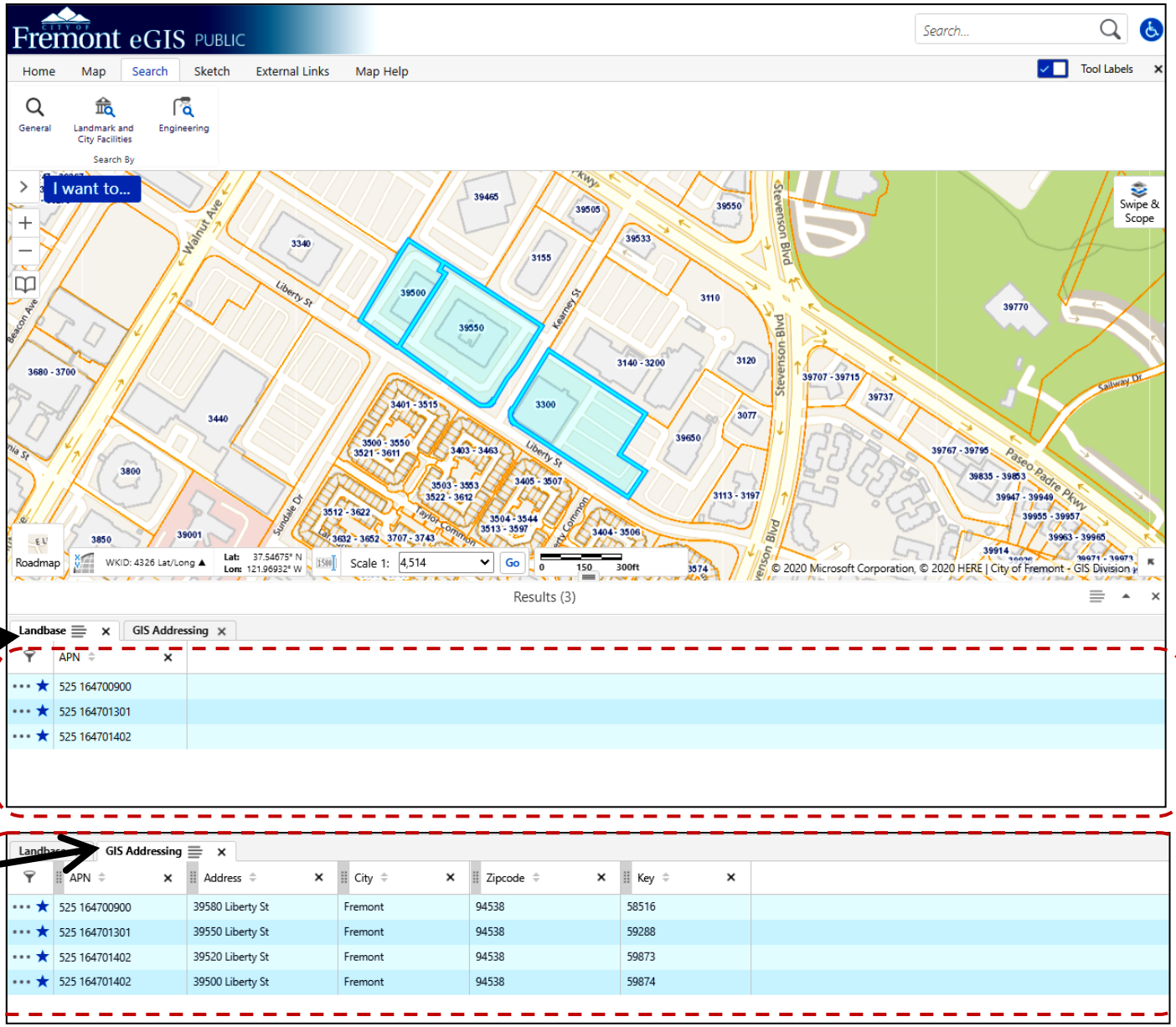
Note that for this example, only the Zoning and General Plan layer has been selected.

Select the layer you wish to use over the map view.

Here, the Zoning and General Plan layer is selected.

Results Table - a general overview

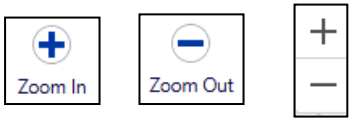
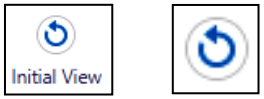
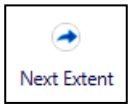
The Results table shows the results of a search and will appear below the map view. The example below illustrates an address search on "39…." "Liberty St". The information in the Results Table will show the name of the associated layer containing the data. In this case, the GIS Addressing layer is providing the addresses which match the search perimeters and the Landbase layer is providing the assessor parcel numbers (APN) associated with the addresses. The top image shows the APN list and the bottom image is of the addresses.



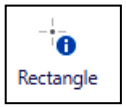
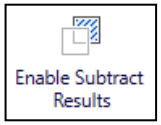
Landbase Layer

GIS Addressing Layer

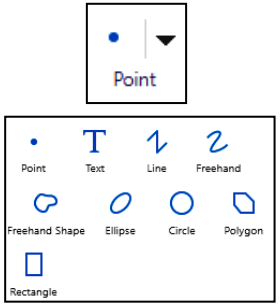
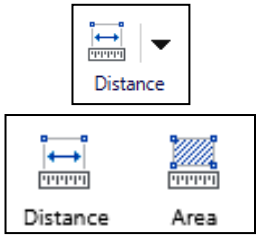
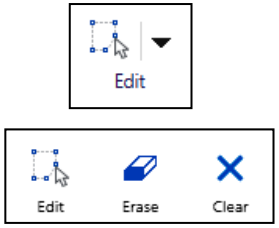
eGIS - Public
Quick Reference

SYMBOL	PURPOSE	LOCATION	SUB MENU
	Click and drag map in the direction you want to move the map.	Home Tab	Navigate
	Controls to zoom in (i.e., make image bigger) and to zoom out (i.e., make image smaller showing a larger area).	Home Tab Map view	Navigate *(on map screen)*
	Zoom out to the initial view of the map.	Home Tab Map screen	Navigate I want to...
	Zoom out to the full extent of the map.	Home Tab	Navigate
	Click to return to the previous map view.	Home Tab	Navigate
	After the Previous Extent button has been clicked, return to the current view by clicking Next Extent only if the Previous Extent had been used.	Home Tab	What's Here
	Enables the drawing of a freehand polygon (i.e., an identify tool) used to select features in the map and find out more information about them.	Home Tab	What's Here
	Enables the drawing of a freehand line (i.e., an identify tool) used to select features in the map and find out more information about them	Home Tab	What's Here

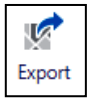
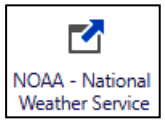
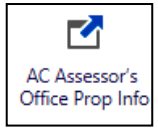
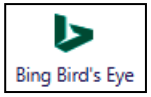
Quick Reference (cont.)

SYMBOL	PURPOSE	LOCATION	SUB MENU
	Enables the drawing of a rectangle (i.e., an identify tool) used to select features in the map and find out more information about them.	Home Tab	What's Here
	Enables user to interactively add selected features to the existing results table by selecting them on the map.	Home Tab	What's Here
	Enables user to interactively delete selected features from the existing results table selecting them on the map.	Home Tab	What's Here
	To limit the layers that are returned by an identify tool.	Home Tab	What's Here
	Show the map layer list if it has been closed.	Map Tab Map screen	Hide/Show I want to...
	To plot coordinates to add callouts with coordinate values to the map.	Map Tab	Plot Coordinates
 	Predefined search queries for addresses, assessor parcel numbers, street names and street intersections.	Search Tab Map screen	Search By I want to...

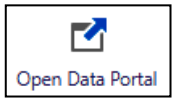
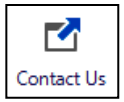
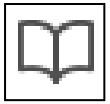
Quick Reference (cont.)

SYMBOL	PURPOSE	LOCATION	SUB MENU
	Predefined search queries for Landmark and City Facilities such as common areas, parks, shopping centers, city offices, fire facilities, police facilities, community centers and schools.	Search Tab	Search By
	Predefined search queries for Engineering facilities such as CIP Projects and Monument Inventory.	Search Tab	Search By
	Draw shapes and add text to the map.	Sketch Tab	Drawing and Measuring
	Use the Distance and Area Tools to drw on the map and see segment lengths and polygon areas.	Sketch Tab	Drawing and Measuring
	Use the Edit Tools to edit or delete existing shapes (including buffers), or delete all drawings from the map.	Sketch Tab	Drawing and Measuring

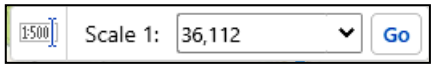
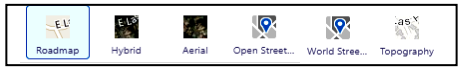
Quick Reference (cont.)

SYMBOL	PURPOSE	TAB NAME	SUB MENU
	To export an image of the map only along with georeferenced data (optional)	Sketch Tab	Export Map
	To save current map as a PDF with map features such as title block, legend, overview map and scale bar.	Sketch Tab Map screen	Export Map I want to...
	Link to the National Weather Service website managed by the National Oceanic and Atmospheric Administration.	External Links Tab	Additional Resources
	Link to the weather map (Wundermap) produced by the Weather Underground.	External Links Tab	Additional Resources
	Link to the Fire-Threat Maps website by the California Public Utilities Commission website for CPUC Fire Safety.	External Links Tab	Additional Resources
	Link to the California King Tides Project by the California Coastal Commission.	External Links Tab	Additional Resources
	Link to the Alameda County Assessor's Office Online Services for Property Assessment Information.	External Links Tab	Additional Resources
	Link to Bing Bird's Eye - aerial photography at street level.	External Links Tab	Linked Maps

Quick Reference (cont.)

SYMBOL	PURPOSE	TAB NAME	SUB MENU
	Link to aerial photography showing oblique perspectives including overhead view.	External Links Tab	Linked Maps
	City of Fremont GIS data available for download by the public.	External Links Tab	City of Fremont
	Link to the City of Fremont - GIS Division's webpage	External Links Tab	City of Fremont
	Link to the GIS Addressing Projects webpage listing addressing documents prepared for development projects.	External Links Tab	City of Fremont
	Link to the Southern Alameda County GIS Authority home page.	External Links Tab	- - -
	Allows user to interactively view one layer over another where one layer acts as a window view and the other is the base layer.	Map screen	*(on map screen)*
	Short cut menu to several most commonly used tools.	Map screen	*(on map screen)*
	Use to create new bookmarks or to access existing bookmarks. Bookmarks are used to easily revisit saved map areas.	Map screen	I want to… *(on map screen when bookmarks exists)*

Quick Reference (cont.)

SYMBOL	PURPOSE	LOCATION	SUB MENU
	Tool for changing zoom ratio or zoom level of the map view.	Map screen	*(on map screen)*
  	Basemap selector to choose from six different basemaps.	Map screen	*(on map screen)*