

# Historical Aerial Photography Web Application

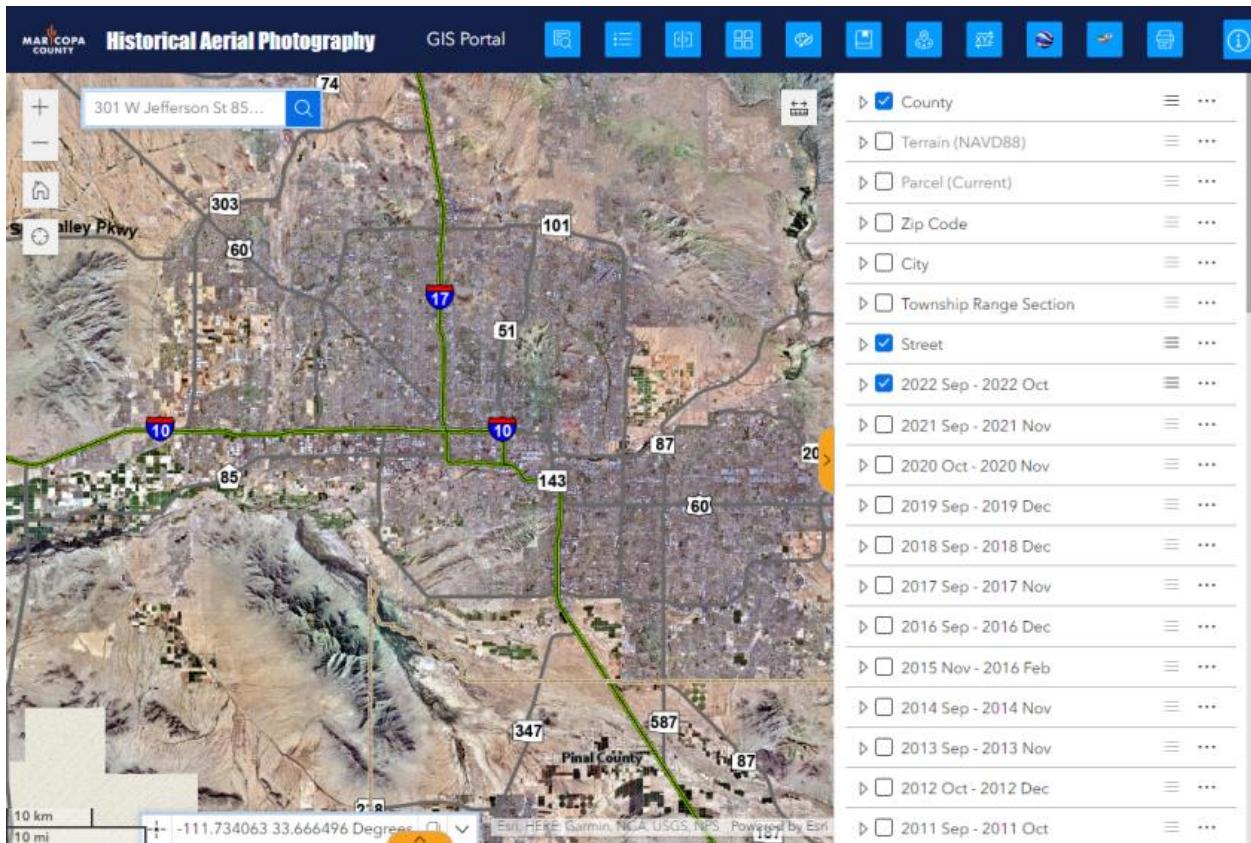
## User Guide

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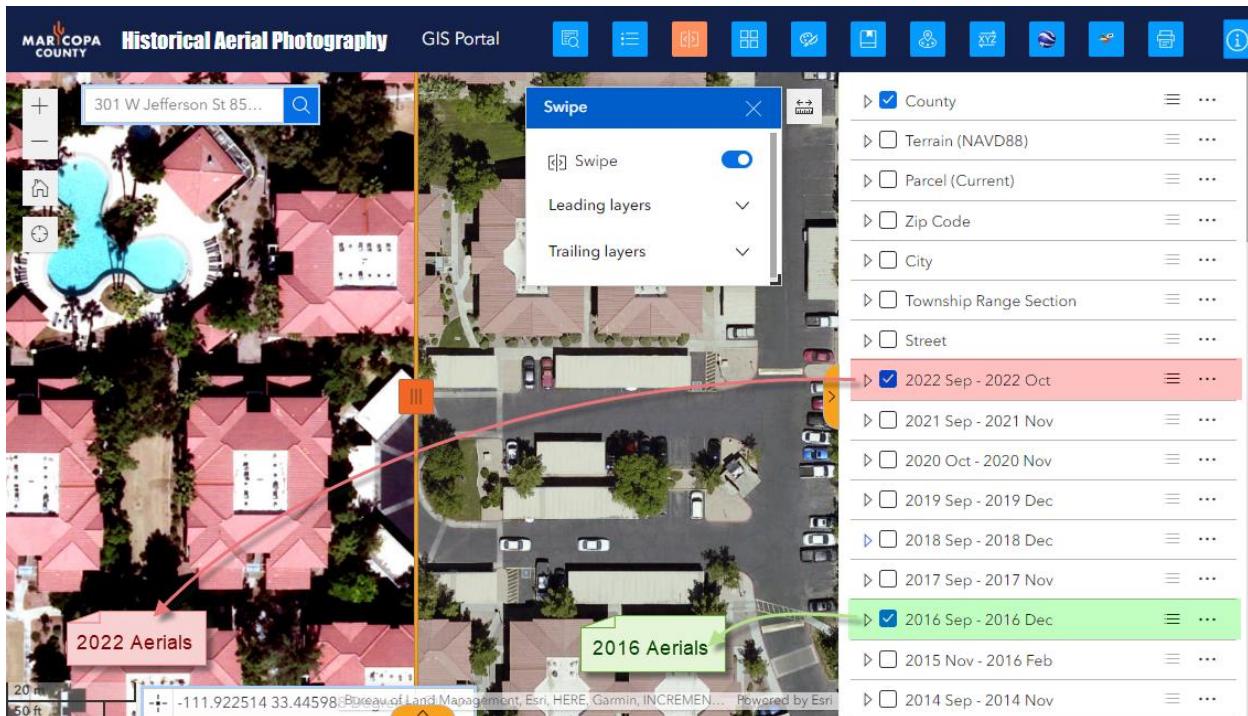
## Overview

Welcome to the new Maricopa County Historical Aerial Photography Web Application.



This Web Application offers a simple interface to zoom to your area of interest and compare the latest Aerial Images with those taken one, two, five, ten years dating all the way back to 1930.

They present a fascinating visual history of how Maricopa County grew from a small population of less than a million in 1970 to become the 4<sup>th</sup> largest County in the US serving a population of 4.6 million.



In addition to these Ortho Aerials, you can view the high-resolution oblique imagery from Pictometry and explore your study area in 2D and 3D using Google Maps and Google Street View.

This web app includes the entire 1.7 million Parcel Database of Maricopa County with links to the Maricopa County Assessor, Treasurer and Recorder web pages.

You can print a professional quality PDF map of your study area with a custom title, map scale, author, copyright information, map legend and north arrow.



This Web Application was created using the **ArcGIS Experience Builder**, the next generation Web Mapping platform from ESRI.

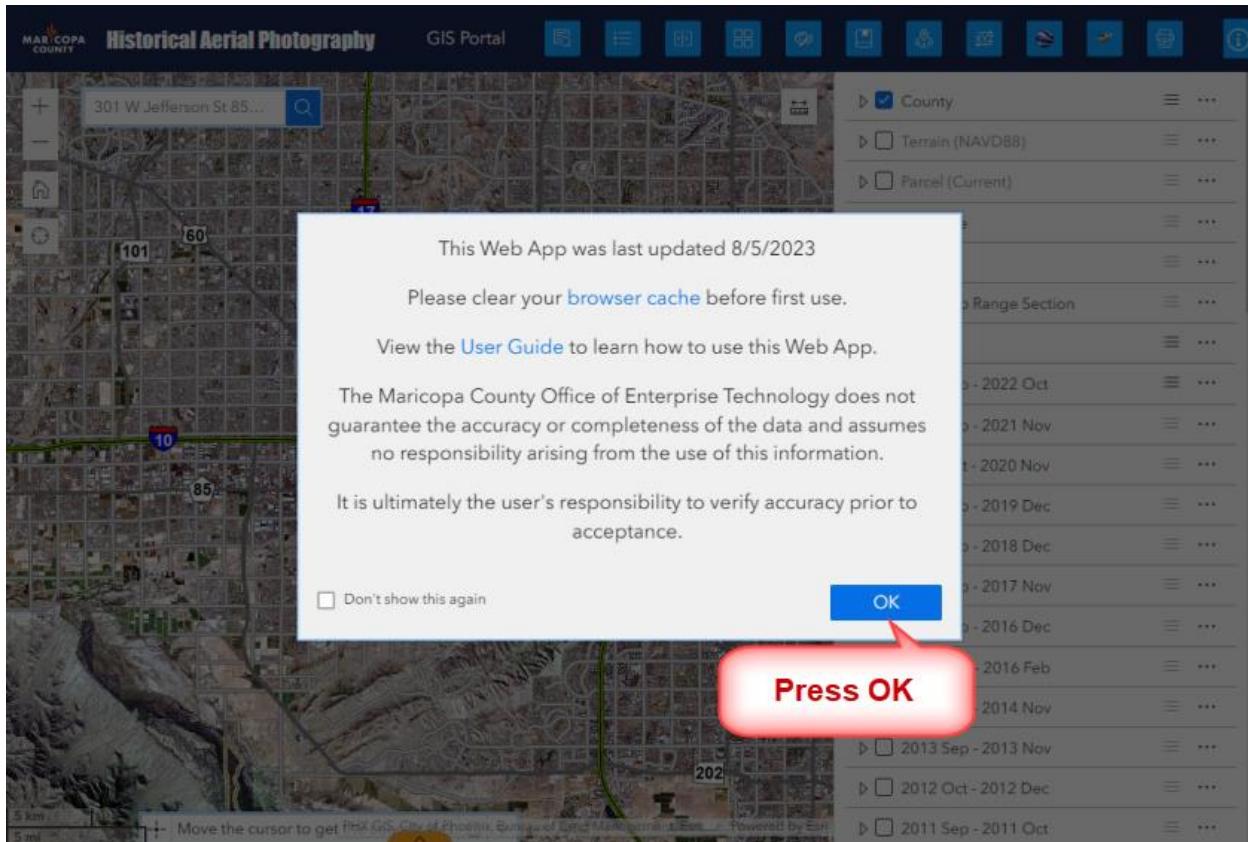
<https://www.esri.com/en-us/arcgis/products/arcgis-experience-builder/overview>

This User Guide will walk you through all the Widgets and Tools with short examples to get you familiar with all the capabilities of this feature rich web application.

## Quick Tour

Launch the Historical Aerial Photography Web App.

Press OK to close the Splash Screen.



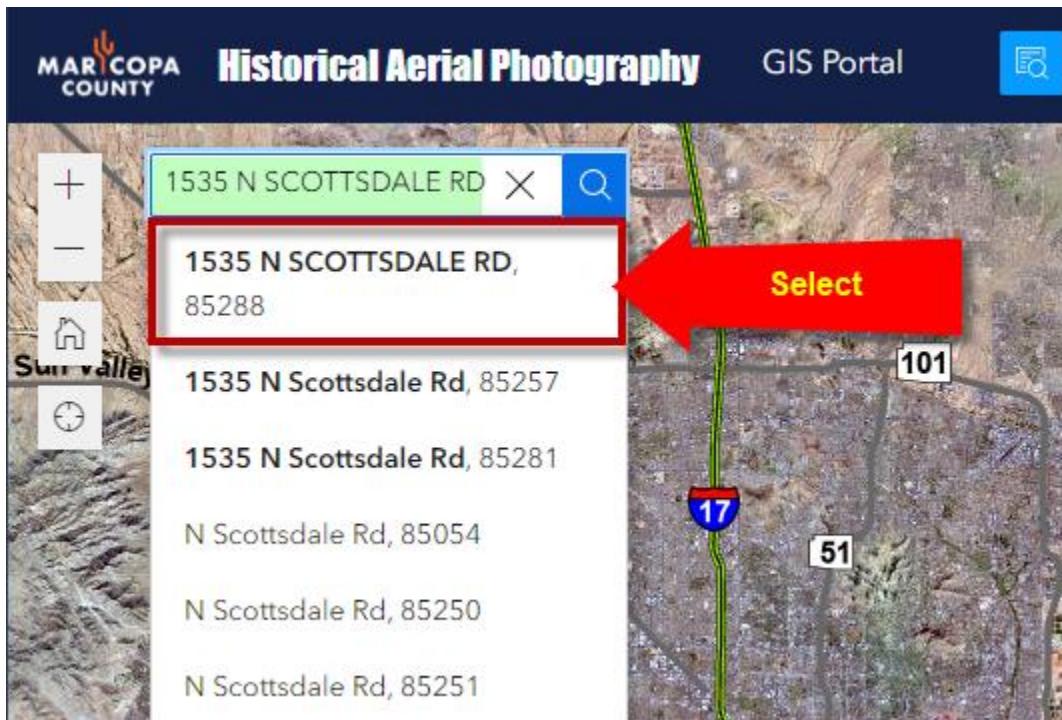
Enter a Street Address with a Zip Code in the Search Tool.

Example: 1535 N SCOTTSDALE RD 85288

Note: The case does not matter.

You may leave out the Zip Code.

Select **1535 N SCOTTSDALE RD, 85288** from the list of best matches that are found.

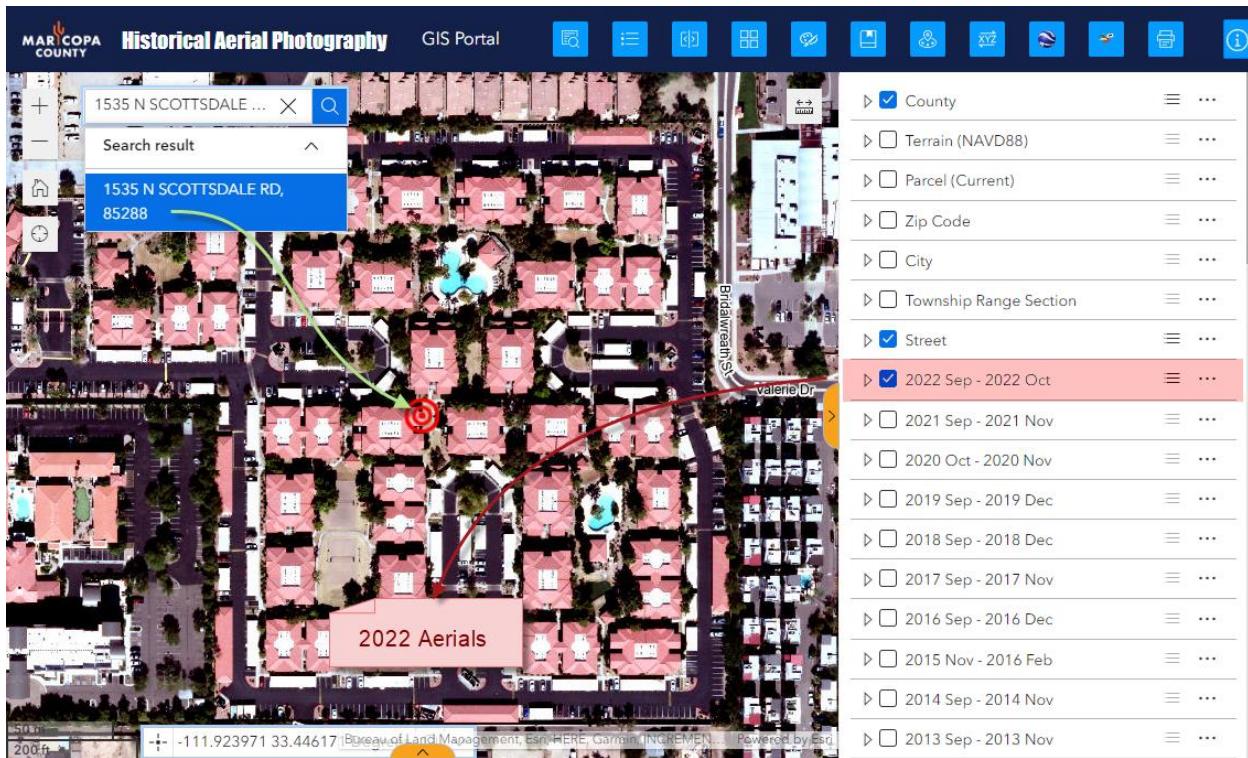


Click on the Search Result.

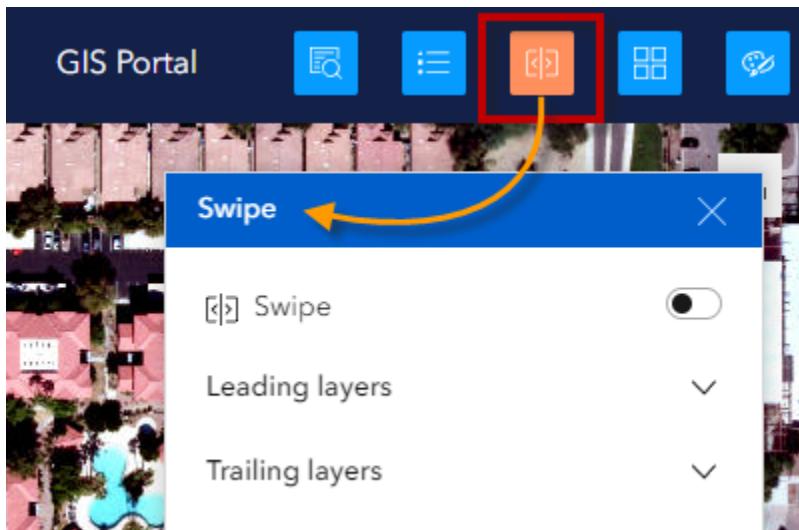


The map will zoom to this address.

You are viewing the 2022 Aerials.



Open the Swipe Widget.

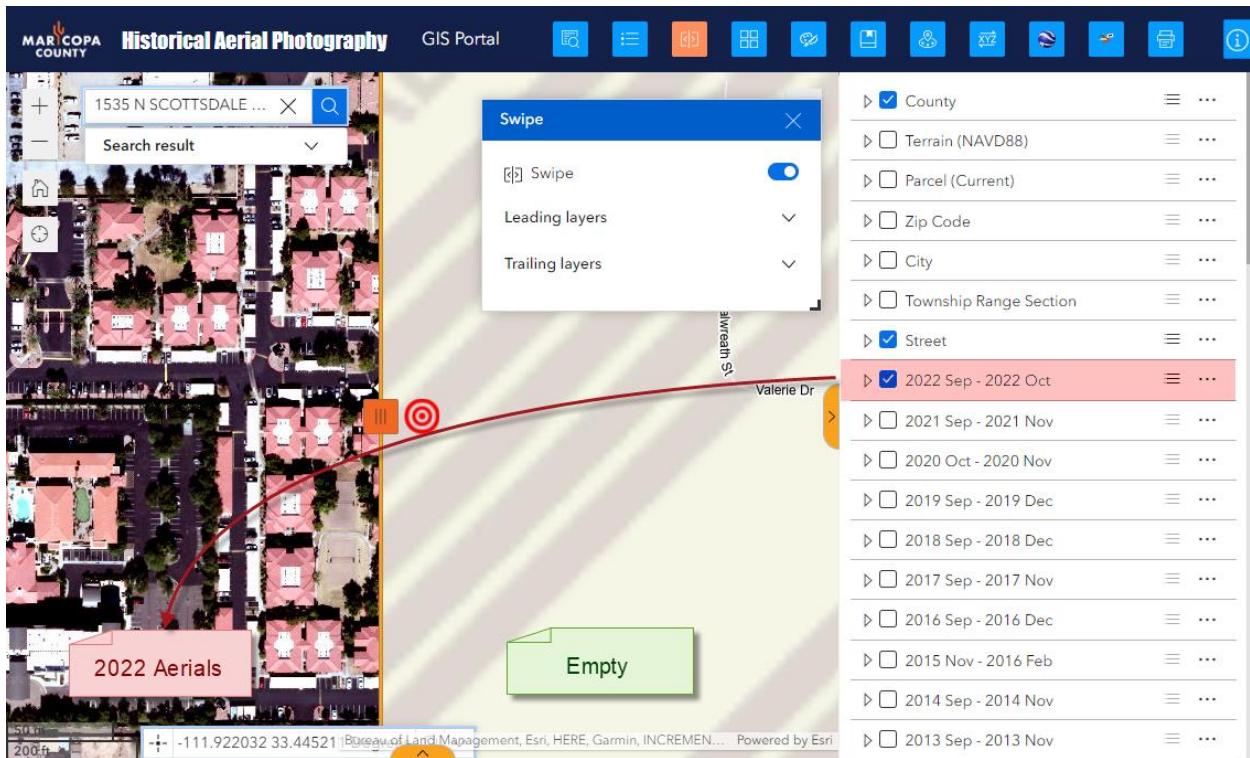


Activate the Swipe Tool.

This will split the screen horizontally.

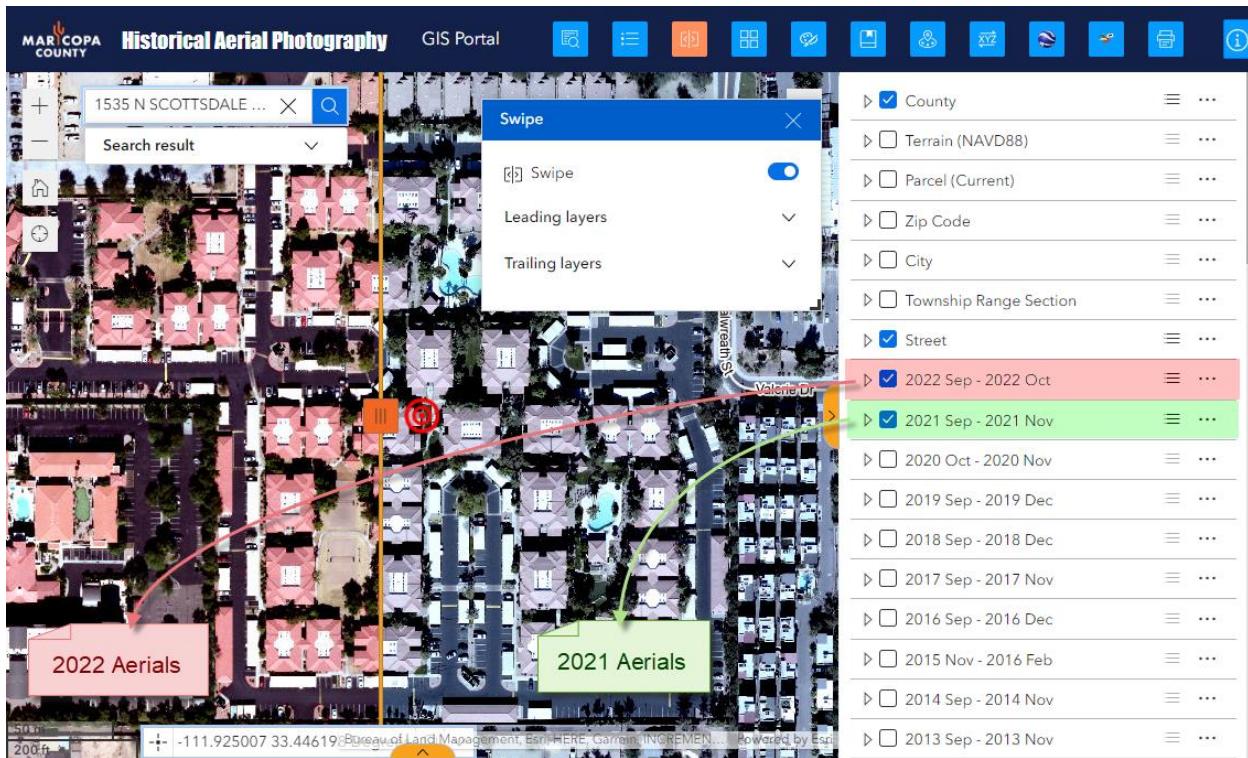
The 2022 Aerials will appear on the left.

The right side will remain empty.



Turn on the 2021 Aerials from the Map Layer List.

The 2021 Aerials will appear on the right.



Next, you are going to compare the 2020 Aerials with the 2022 Aerials.

Turn off the 2021 Aerials.

Turn on the 2020 Aerials.

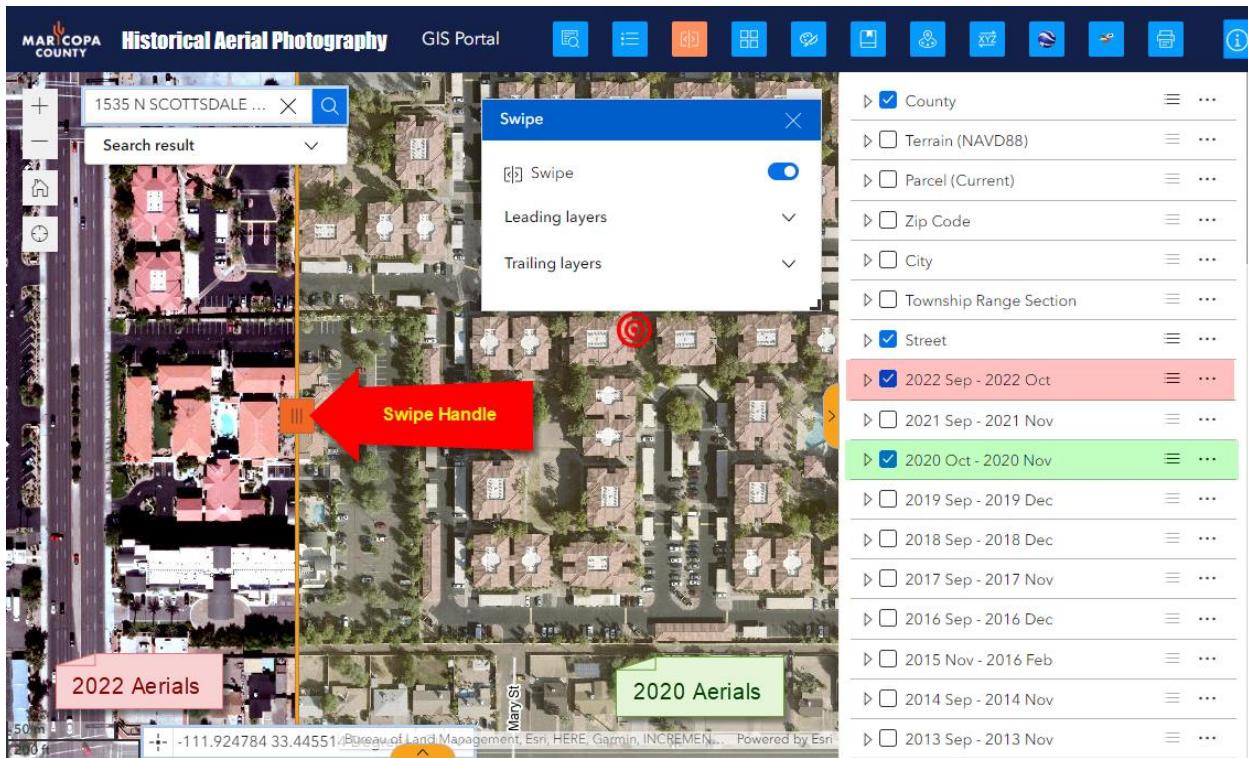
The 2020 Aerials will appear on the right.

The screenshot shows a GIS interface for historical aerial photography. The main map view displays a residential neighborhood with two overlapping aerial layers: a red layer labeled "2022 Aerials" and a green layer labeled "2020 Aerials". A search bar at the top left shows the address "1535 N SCOTTSDALE ...". To the right of the map is a sidebar titled "Swipe" which contains a toggle switch for "Swipe" and dropdown menus for "Leading layers" and "Trailing layers". Below the map is a vertical list of historical aerial photography layers, each with a checkbox and a color-coded background:

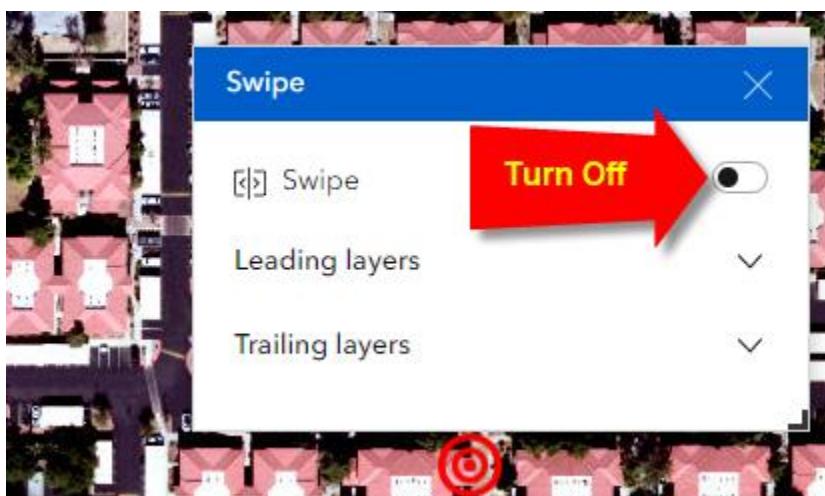
Layer	Color
County	Grey
Terrain (NAVD88)	Grey
Parcel (Current)	Grey
Zip Code	Grey
City	Grey
Township Range Section	Grey
Street	Grey
2022 Sep - 2022 Oct	Red
2021 Sep - 2021 Nov	Grey
2020 Oct - 2020 Nov	Green
2019 Sep - 2019 Dec	Grey
2018 Sep - 2018 Dec	Grey
2017 Sep - 2017 Nov	Grey
2016 Sep - 2016 Dec	Grey
2015 Nov - 2016 Feb	Grey
2014 Sep - 2014 Nov	Grey
2013 Sep - 2013 Nov	Grey

Zoom in closer.

You can slide the **Swipe Handle** to swipe between the 2022 Aerials on the left and the 2020 Aerials on the right.

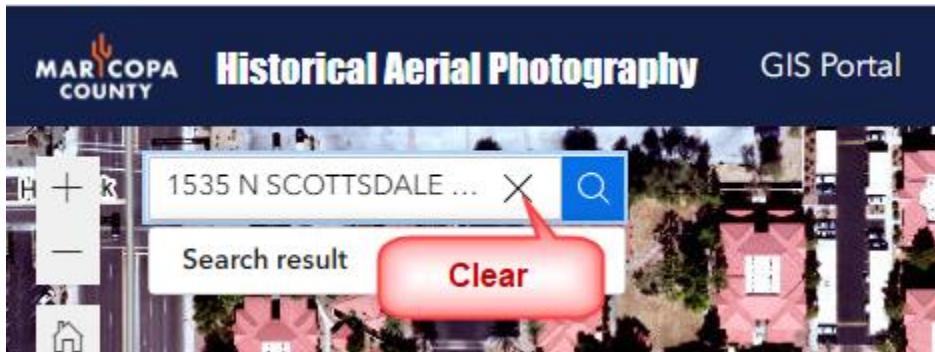


Deactivate the Swipe Tool.



Close the Swipe Widget.

Clear the Search Tool.



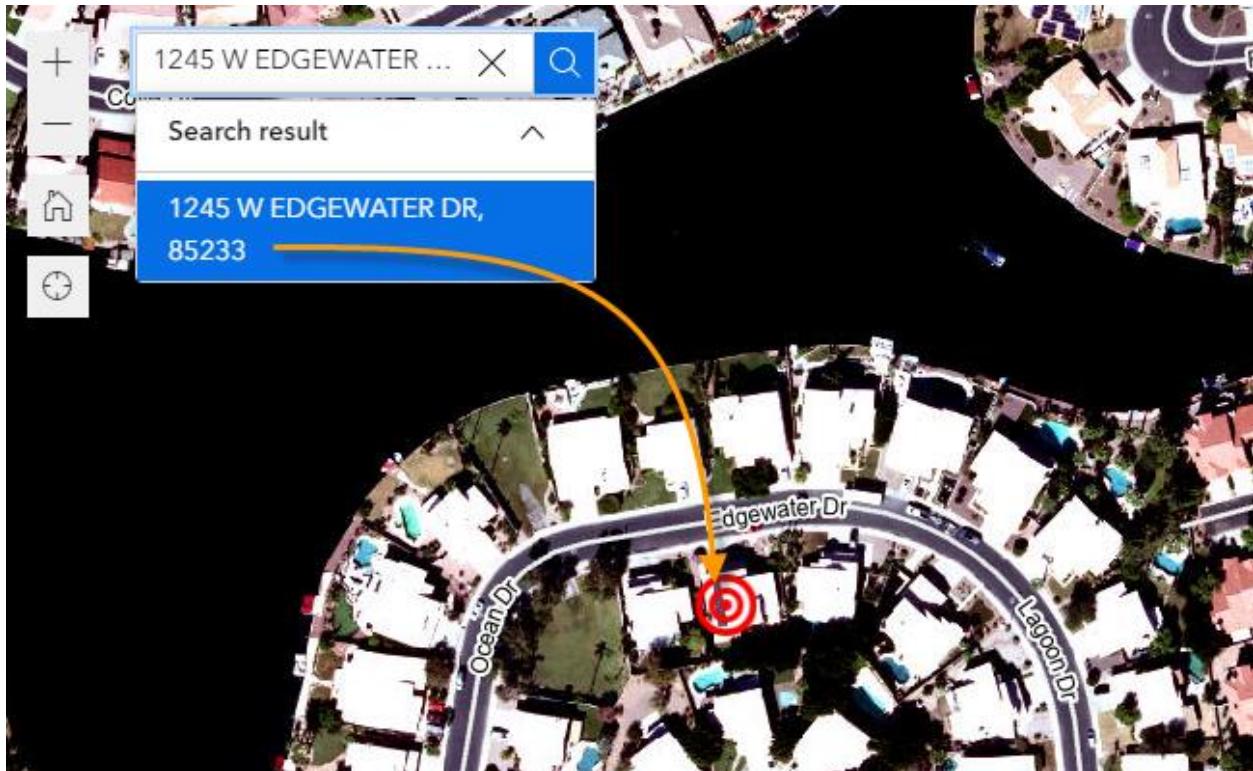
Enter a new Street Address = 1245 W EDGEWATER DR 85233



Select 1245 W EDGEWATER DR, 85233 from the drop-down list of choices.

Click on the Search result.

The map will zoom to this address.



Zoom out.

Turn off the 2022 Aerials.

Turn on the 2016 Aerials.

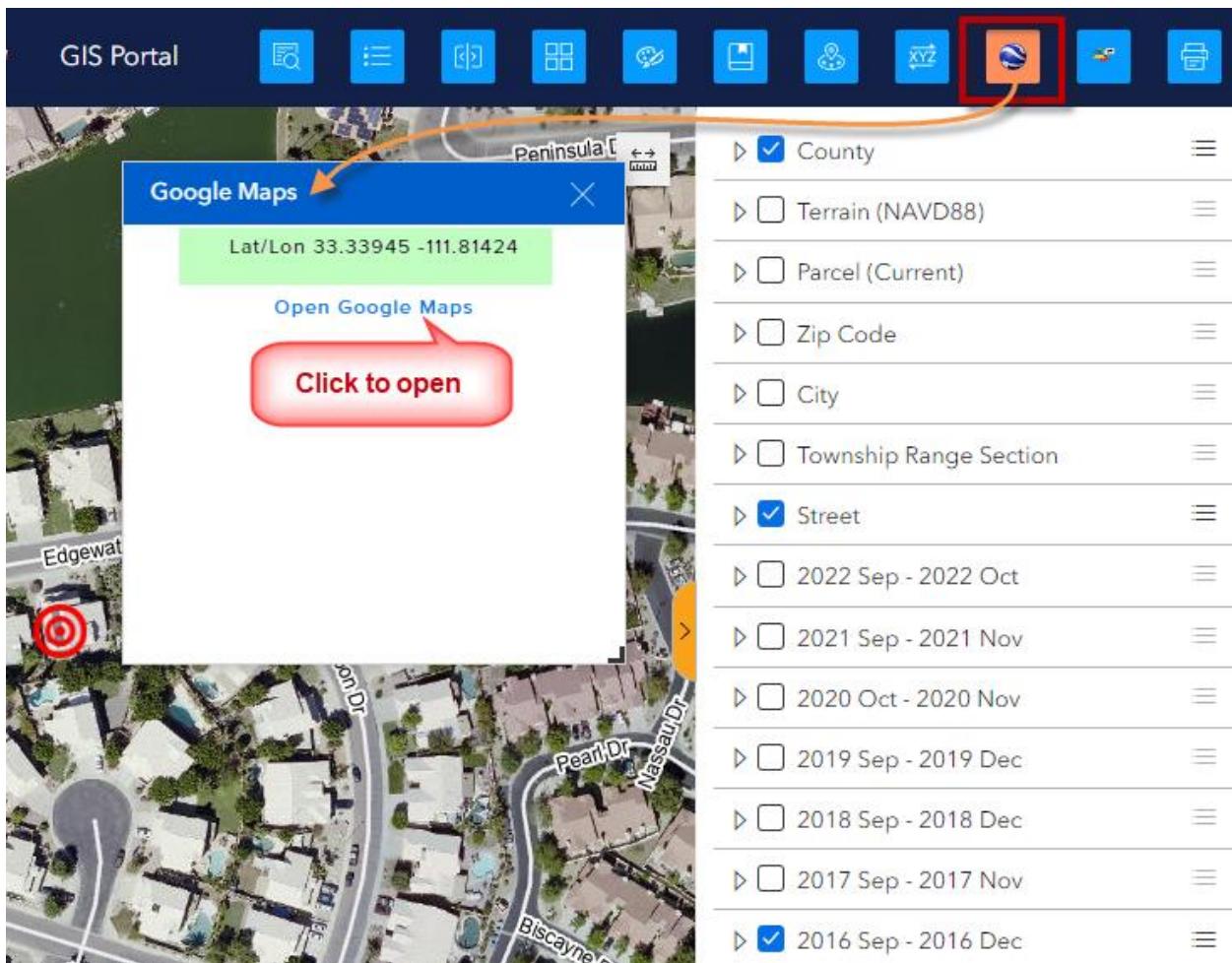
The screenshot shows a historical aerial photograph of a residential neighborhood. A red target icon is placed on a house located at the intersection of Edgewater Dr. and Lagoon Dr. A green callout bubble with the text "2016 Aerials" points to the "2016 Sep - 2016 Dec" checkbox in the layer list on the right side of the interface. The layer list includes checkboxes for various geographical features and time periods, with the 2016 period being the only one checked.

Layer	Status
County	<input checked="" type="checkbox"/>
Terrain (NAVD88)	<input type="checkbox"/>
Parcel (Current)	<input type="checkbox"/>
Zip Code	<input type="checkbox"/>
City	<input type="checkbox"/>
Township Range Section	<input type="checkbox"/>
Street	<input checked="" type="checkbox"/>
2022 Sep - 2022 Oct	<input type="checkbox"/>
2021 Sep - 2021 Nov	<input type="checkbox"/>
2020 Oct - 2020 Nov	<input type="checkbox"/>
2019 Sep - 2019 Dec	<input type="checkbox"/>
2018 Sep - 2018 Dec	<input type="checkbox"/>
2017 Sep - 2017 Nov	<input type="checkbox"/>
2016 Sep - 2016 Dec	<input checked="" type="checkbox"/>
2015 Nov - 2016 Feb	<input type="checkbox"/>
2014 Sep - 2014 Nov	<input type="checkbox"/>
2013 Sep - 2013 Nov	<input type="checkbox"/>

Open the Google Maps Widget.

Move your cursor around the map till you see a Lat/Lon readout.

Click to open the Google Maps Link.



This will launch a separate Google Maps Window.

<https://www.google.com/maps/@33.33834,-111.81562,188m/data=!3m1!1e3?entry=ttu>

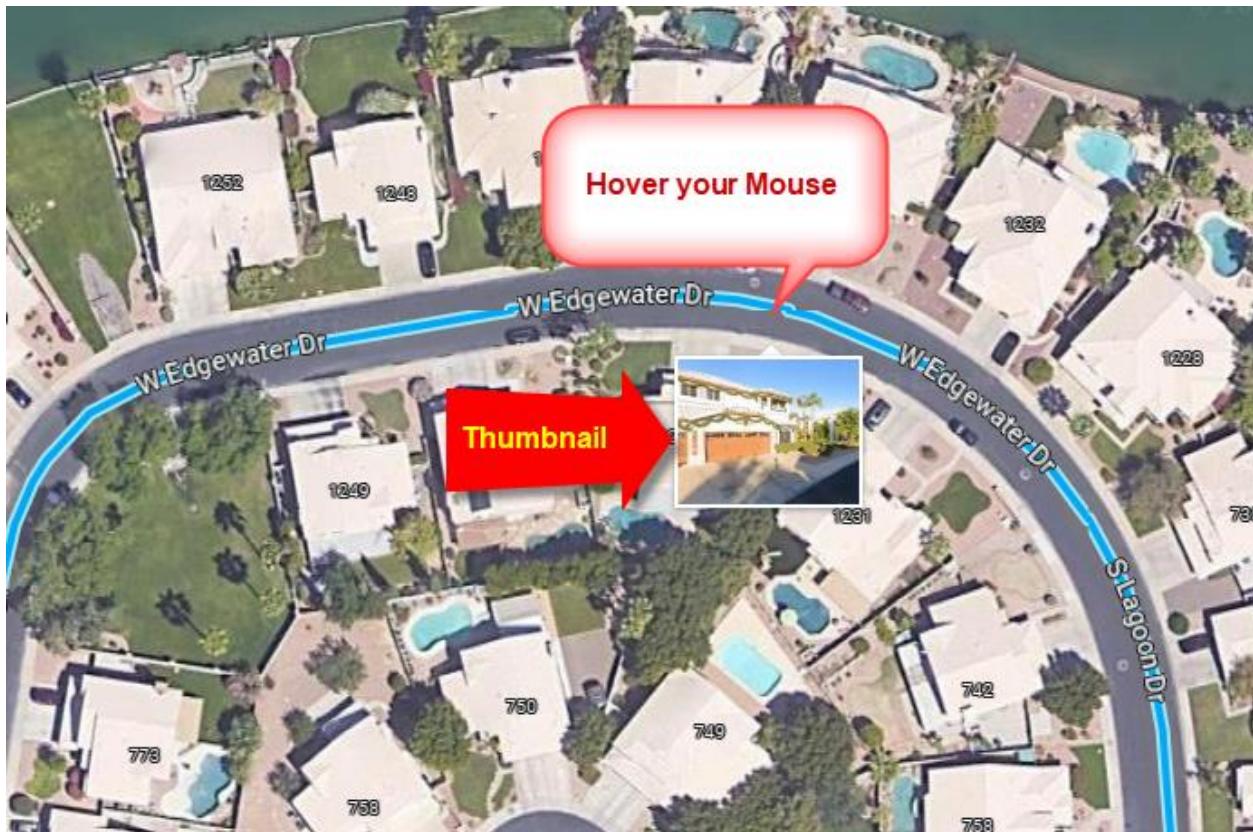


Activate the Google Pegman Tool.

All the streets where Google Street View information is available will be highlighted in blue.

Hover your mouse over any blue segment.

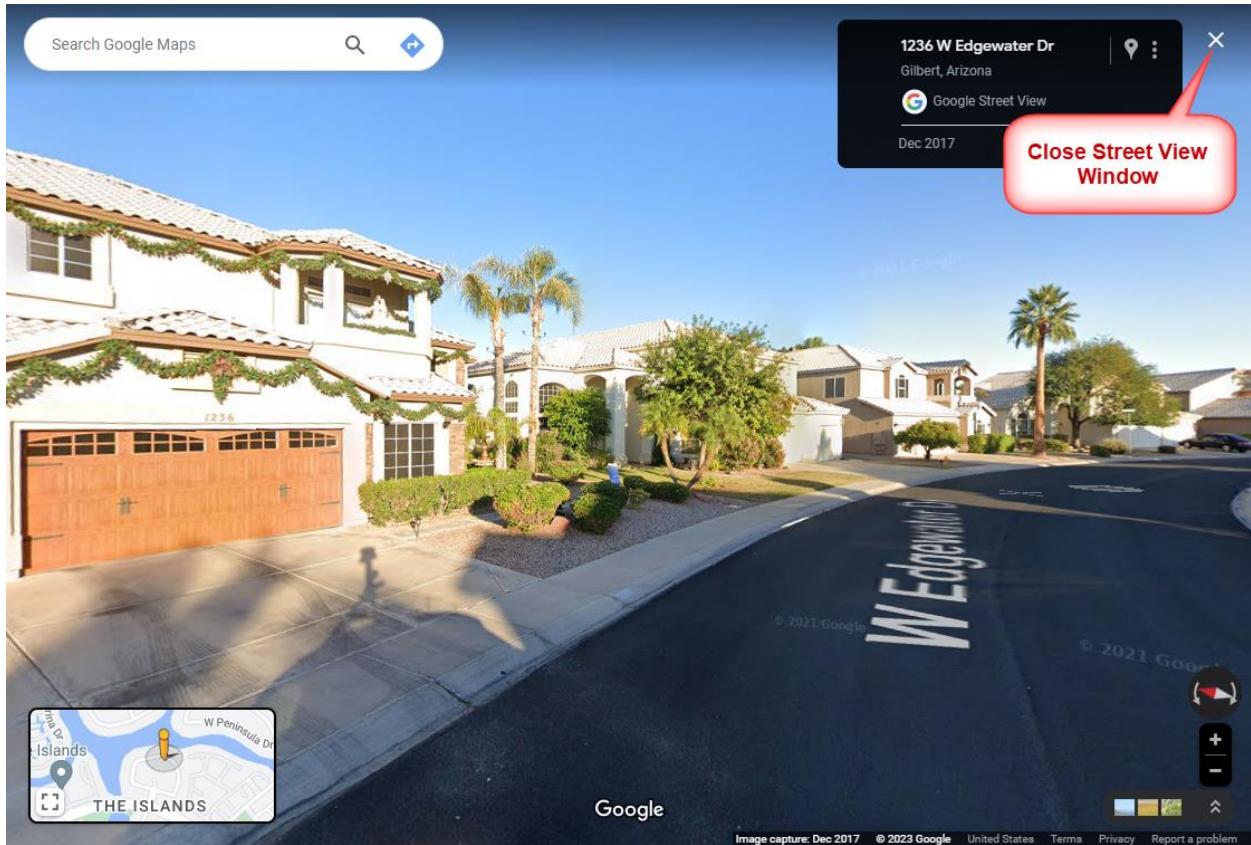
A thumbnail will appear.



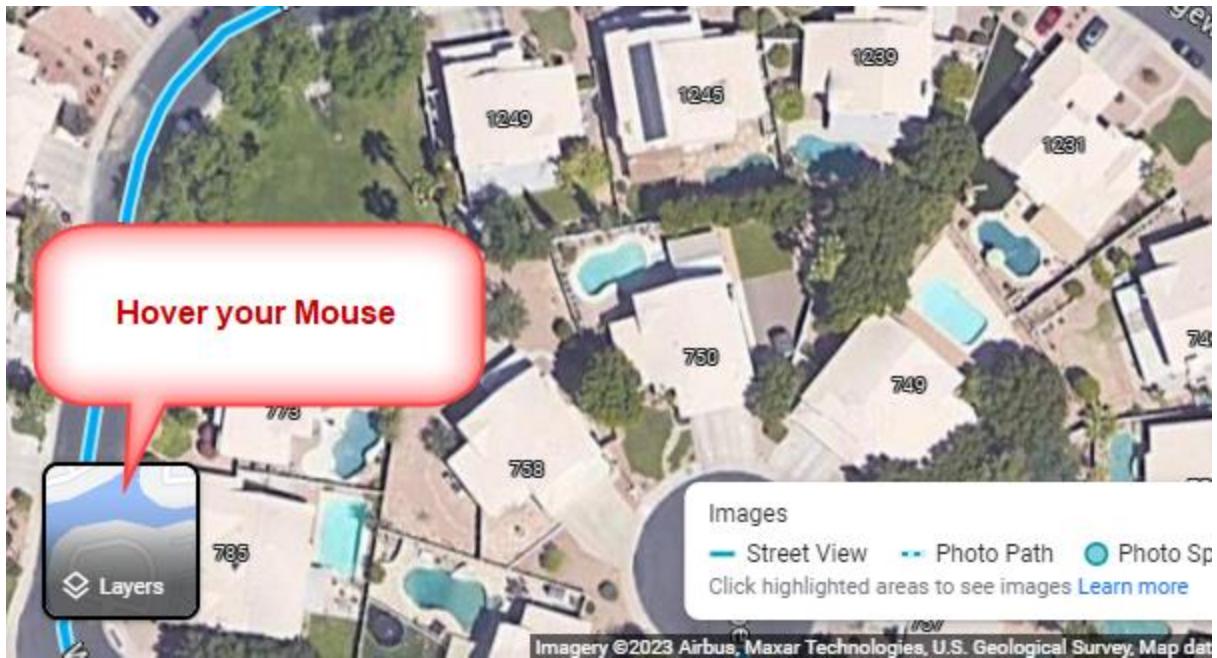
Click on any blue segment.

This will launch Google Street View.

Close the Google Street View Window.



Hover your mouse over Map Layers.

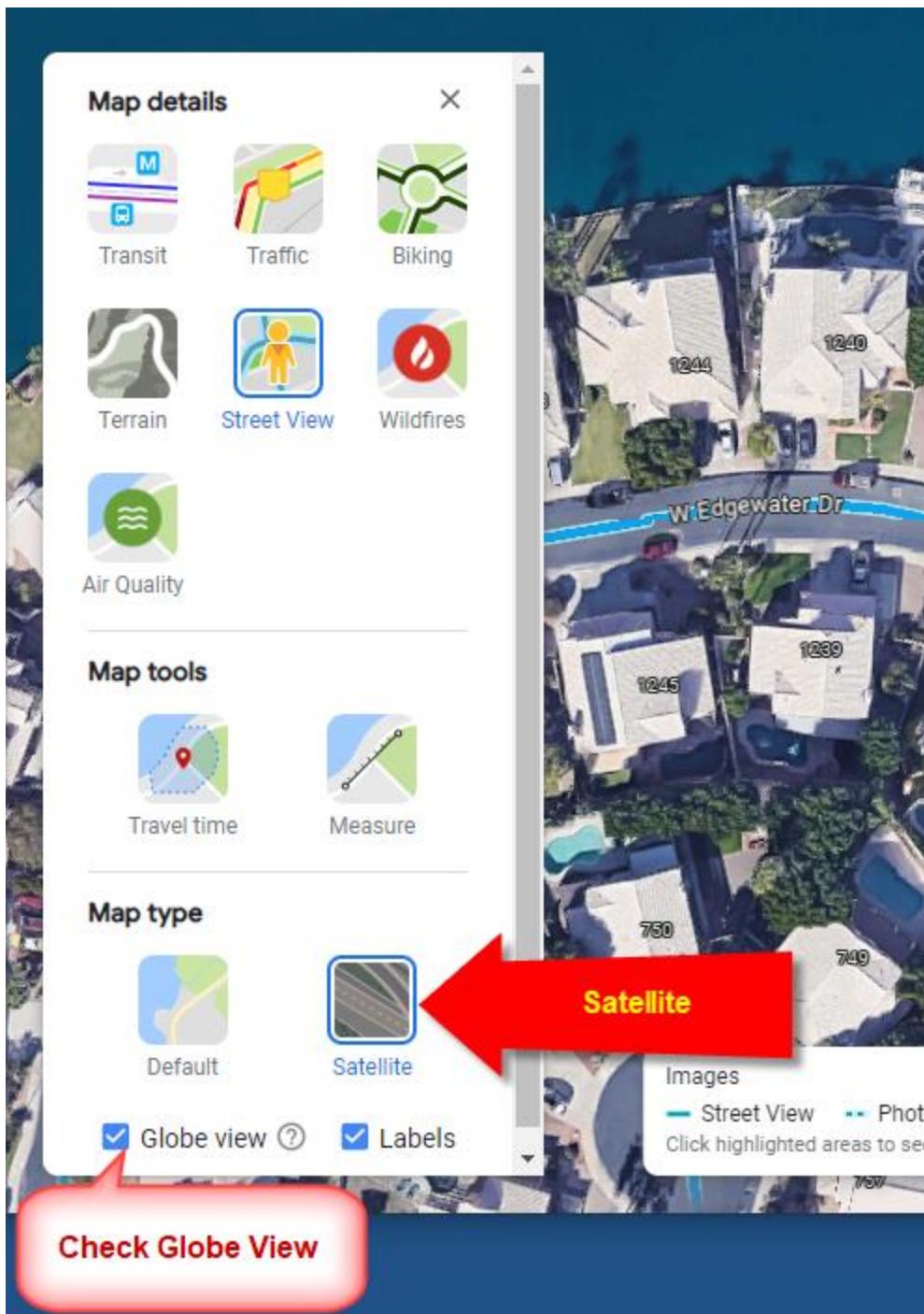


Select More Layers.



Check **Globe View**.

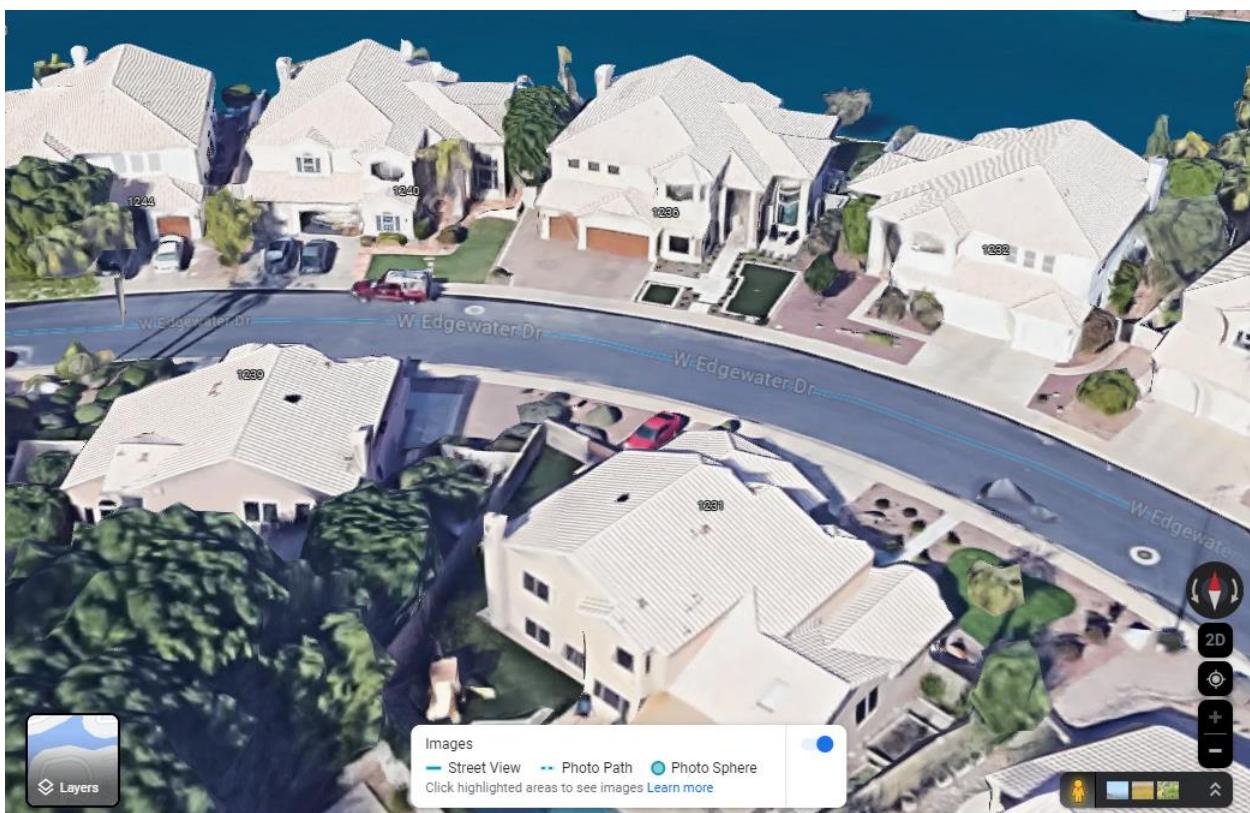
Turn on **Satellite Imagery**.



You are now ready to experience your world in 3D.

Hold down your **Control Key** while dragging your mouse.

To change the **Tilt**, drag your mouse **vertically** while holding down the Control Key.



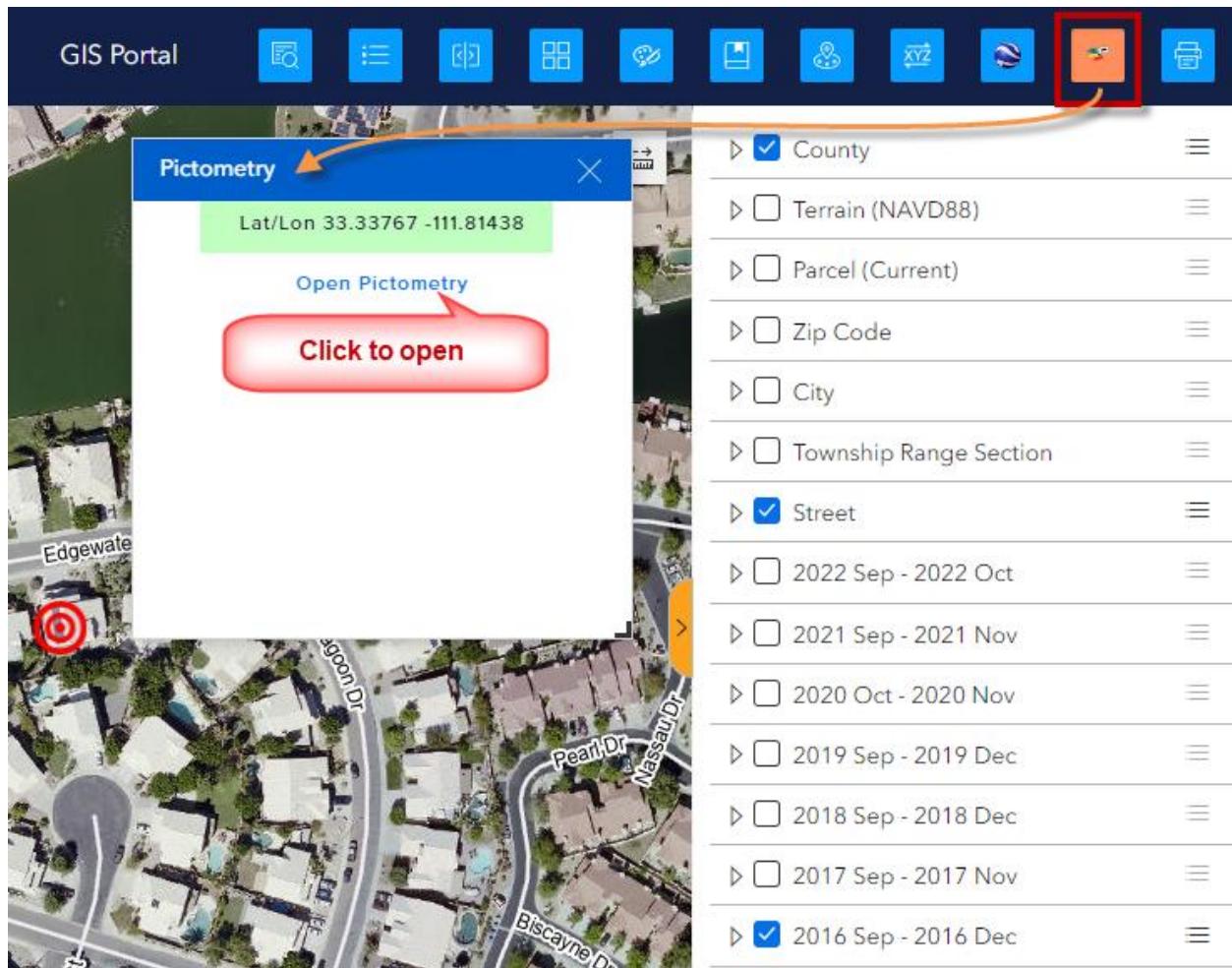
To change the **Rotation**, drag your mouse **horizontally** while holding down the Control Key.



Open the Pictometry Widget.

Move your mouse over the map till you see a Lat/Lon readout.

Click on the link to open a separate Pictometry Window.



<https://gis.maricopa.gov/pictometry/default.aspx?&qlat=33.33834&qlong=-111.81562>

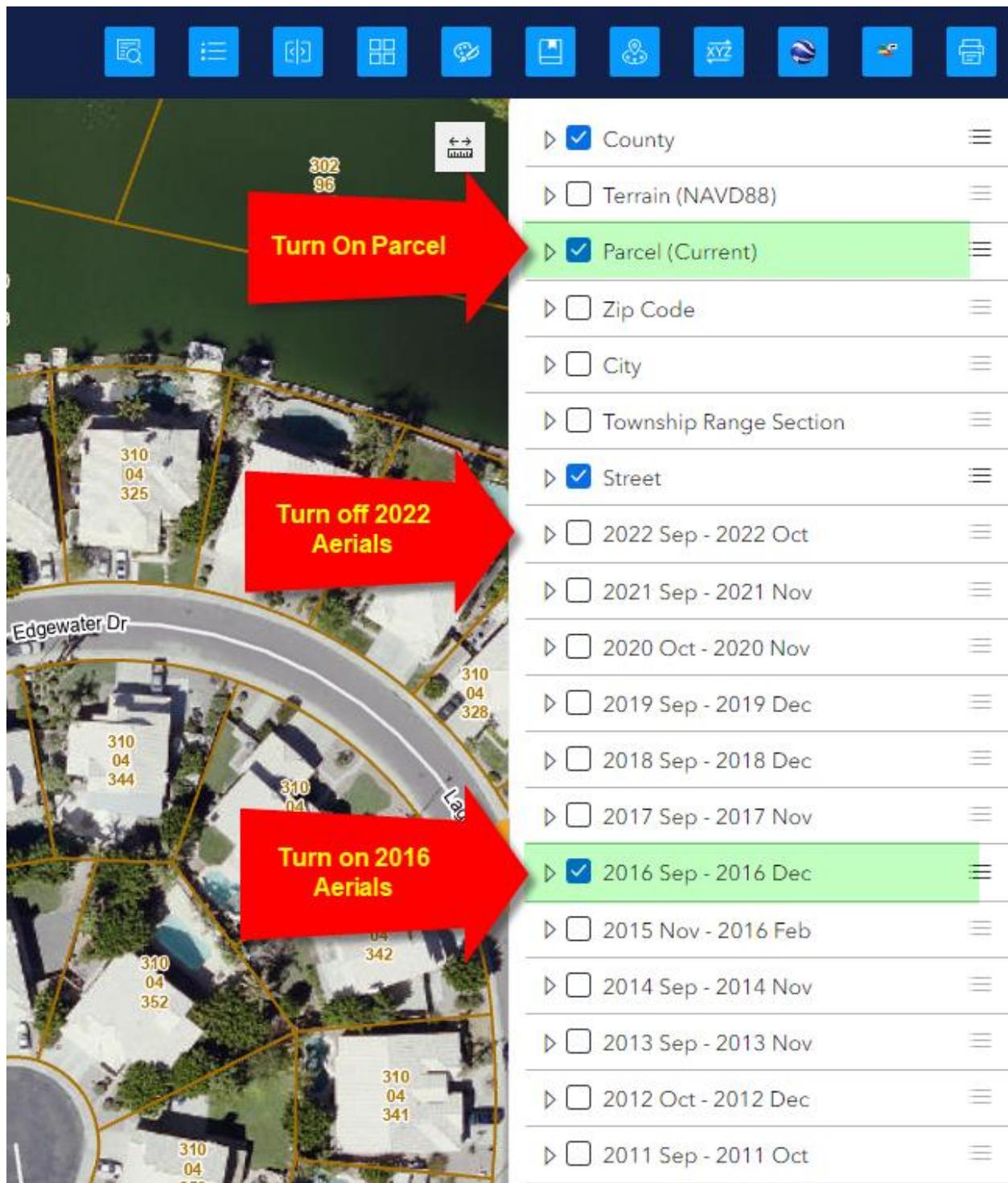


Next, you are going to print a professional quality PDF Map.

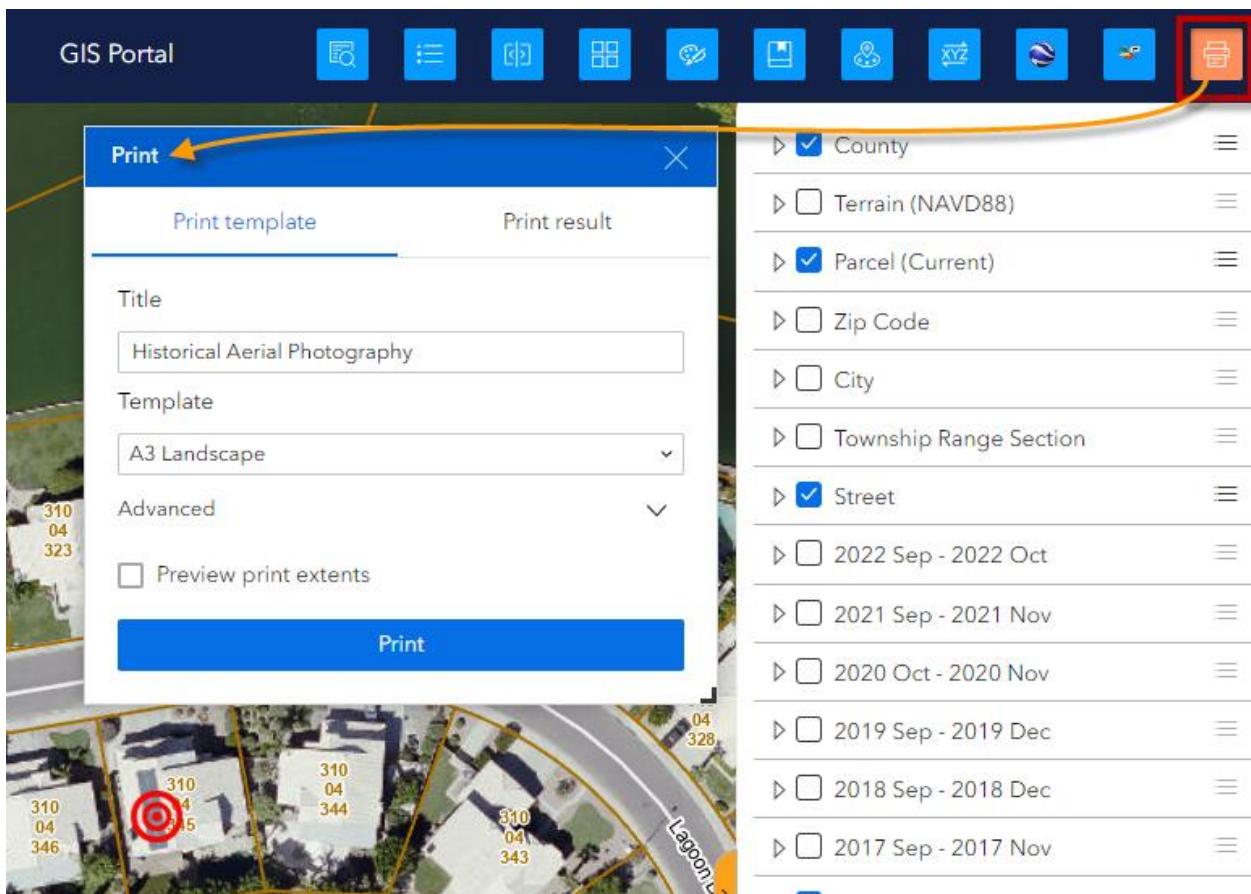
Turn on the Parcel Layer.

Make sure the 2022 Aerials are off.

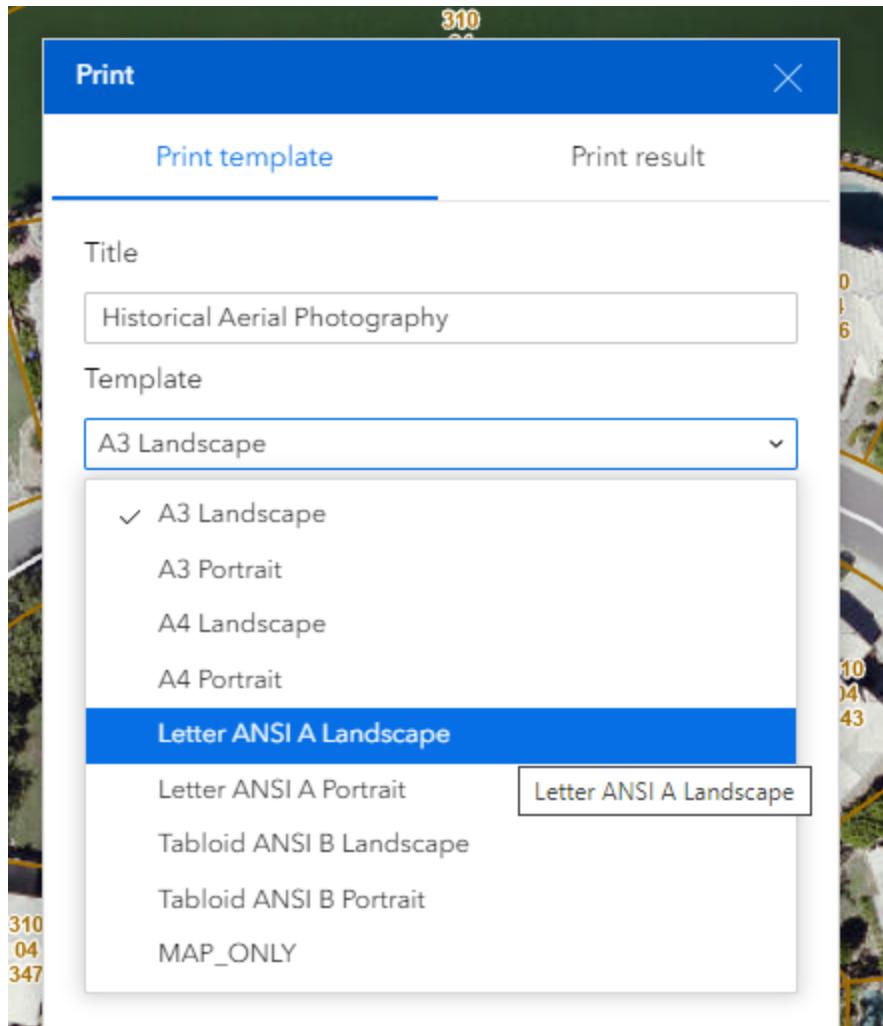
Make sure the 2016 Aerials are on.



Open the Print Widget.



Select Template = Letter ANSI A Landscape



Set your advanced options:

Print X

Print template Print result

---

Title  
Historical Aerial Photography

Template  
Letter ANSI A Landscape

Advanced ^

Map printing extents

Current map extent

Current map scale

Set map scale  
1000 ↻

Layout options

Author  
Office of Enterprise Technology/GIS

Copyright  
© 2023 Maricopa County

Include legend

Include north arrow

Scalebar unit  
Feet

Print quality  
96 DPI

Include attributes

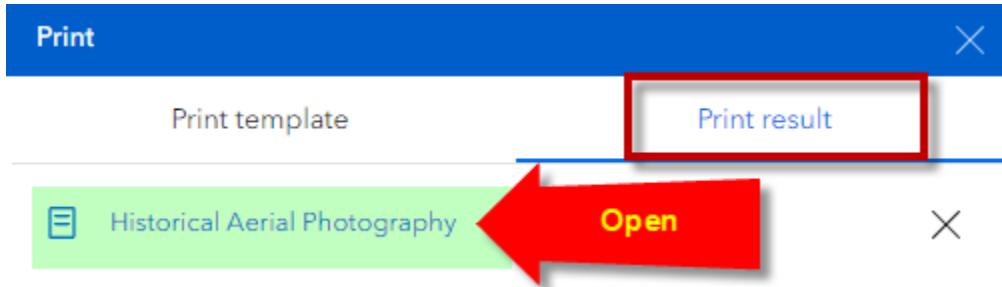
Preview print extents

Print

Press Print

Open the Print Result Tab.

Open the PDF Map.



This is your PDF Map.



This completes your Quick Tour.

Please go through the remainder of this User Guide to learn how to use each Widget and their functionality.

## Launching the Web App

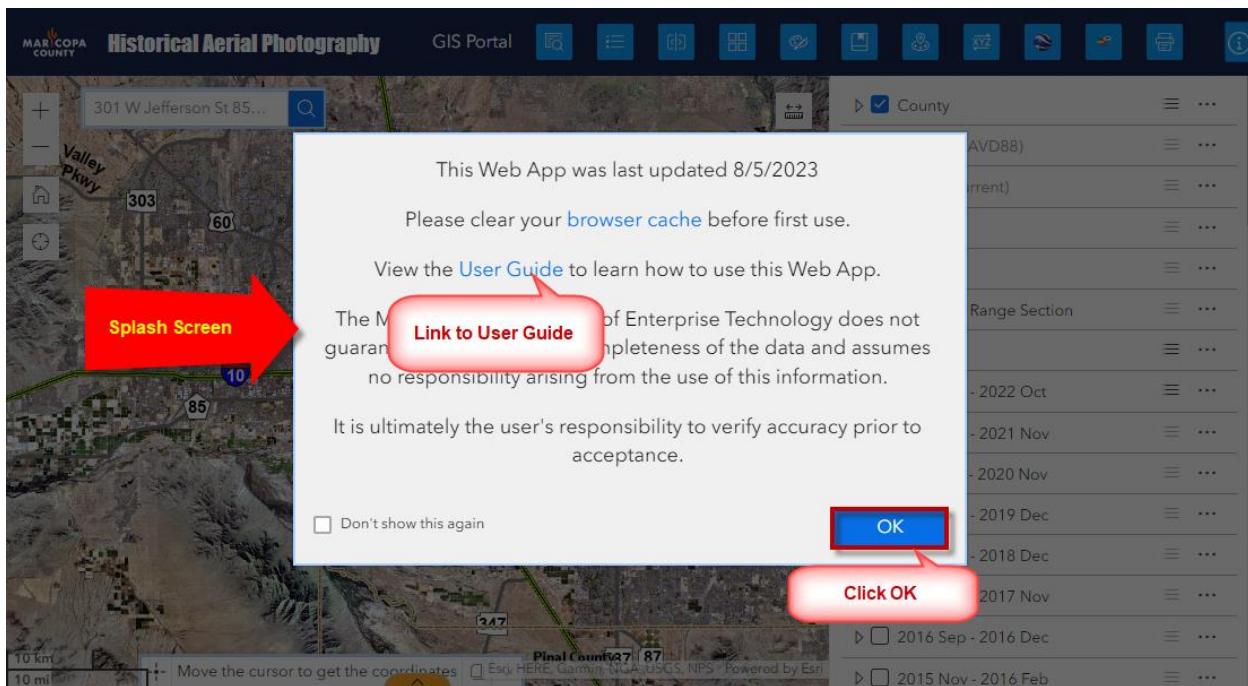
This is a browser-based Web Application. It works best with Google Chrome or Mozilla Firefox. They should be your first choice.

You may also use Internet Explorer 11, Microsoft Edge, or Safari 3.

It needs a minimum window size of **1100** pixels wide by **600** pixels high.

On tablet devices, you can use Safari for iOS or Chrome for Android.  
Use in **landscape mode** only.

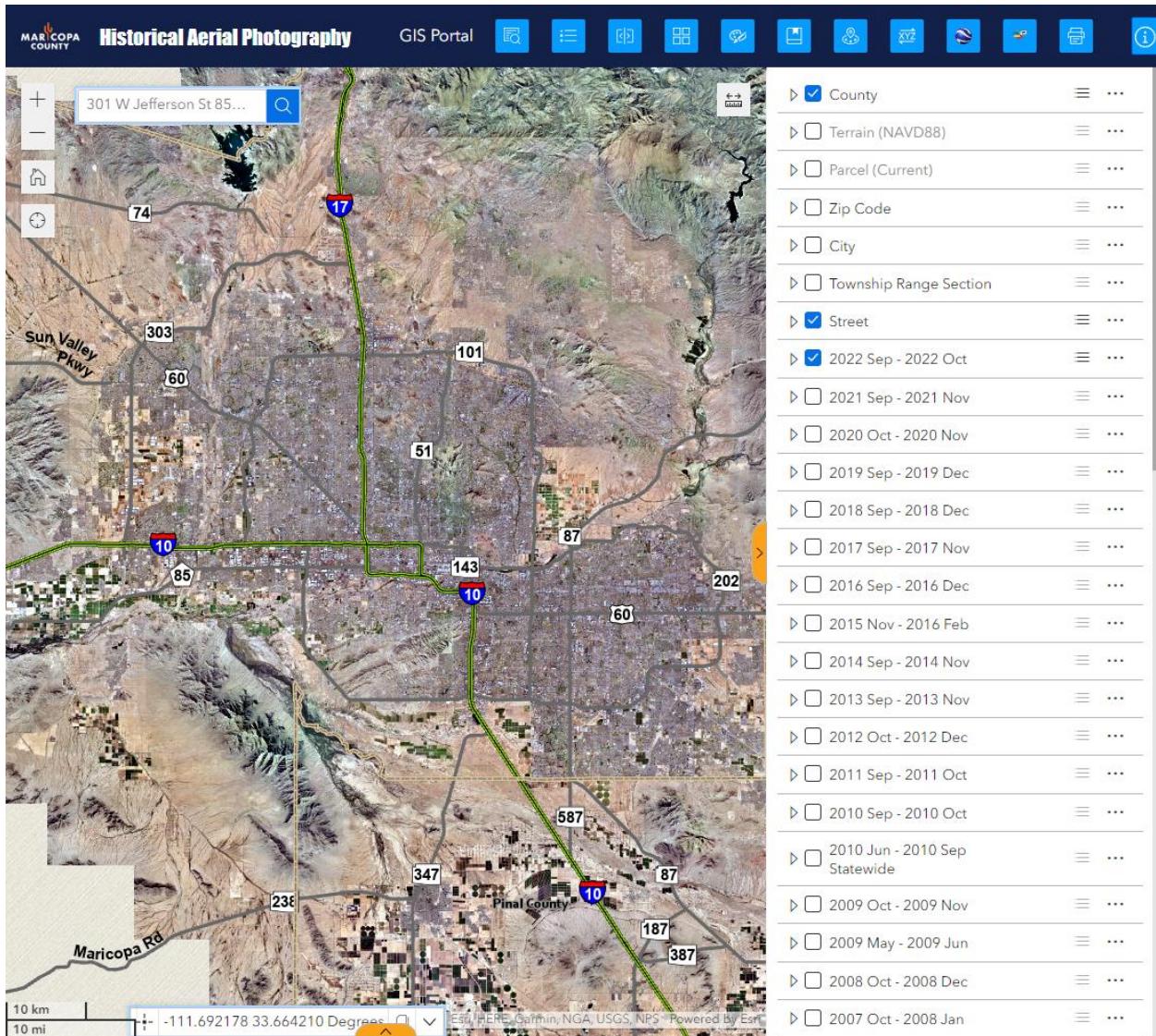
Depending on the size of your window, this is how your Web App may appear on first launch.



You can click on the link to the **User Guide** to launch the comprehensive HTML 5 Help System in a separate window.

Click **OK** to close the Splash Screen.

This is your initial view.



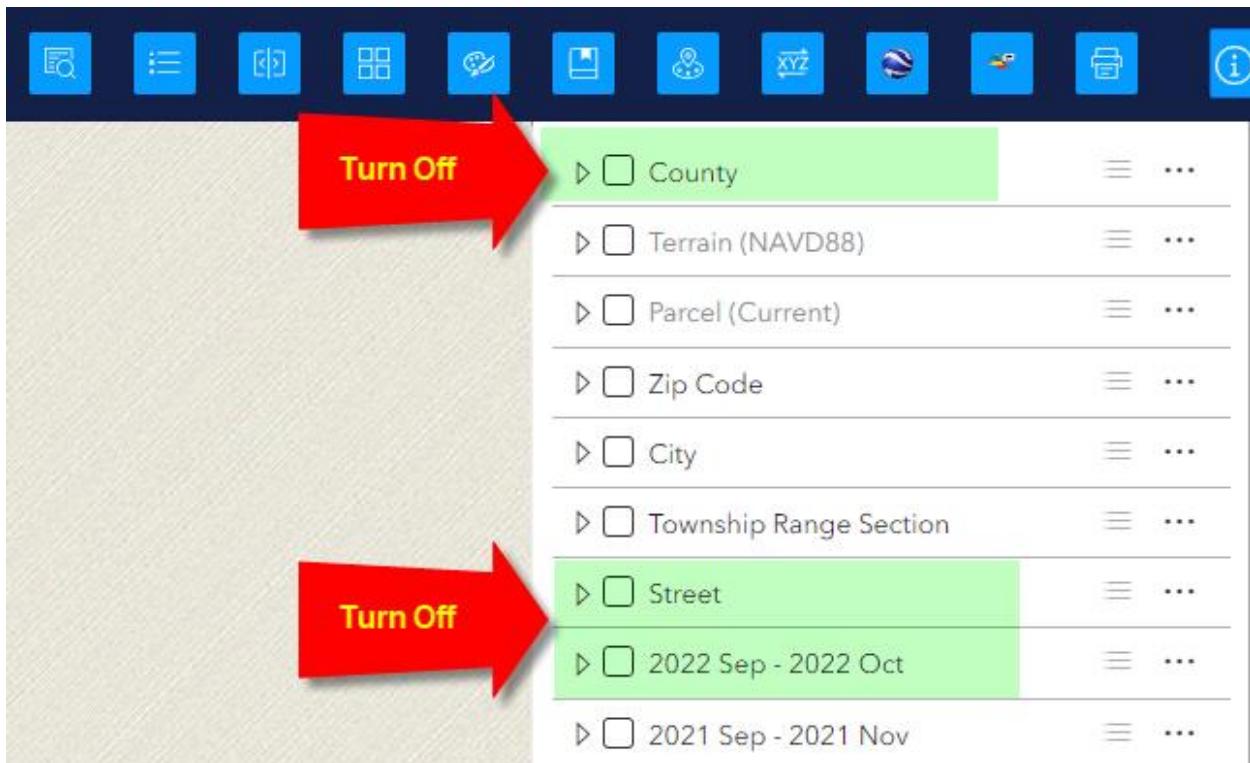
## List of Widgets and Tools

This Web Application comes with a collection of Widgets and Tools that help you navigate to your area of interest, query data layers, zoom to selected features, swipe between the current aerial imagery with those from the past, turn layers on and off, change basemaps, open Google Maps and Pictometry Oblique Imagery, draw and measure graphics and print a PDF map.

This User Guide will walk you through a guided tour of all the widgets explaining every feature.

To begin this tour, first turn off all the layers.

- County
- Street
- 2022 Sep – 2022 Oct



Scroll down and turn off the very last layer.

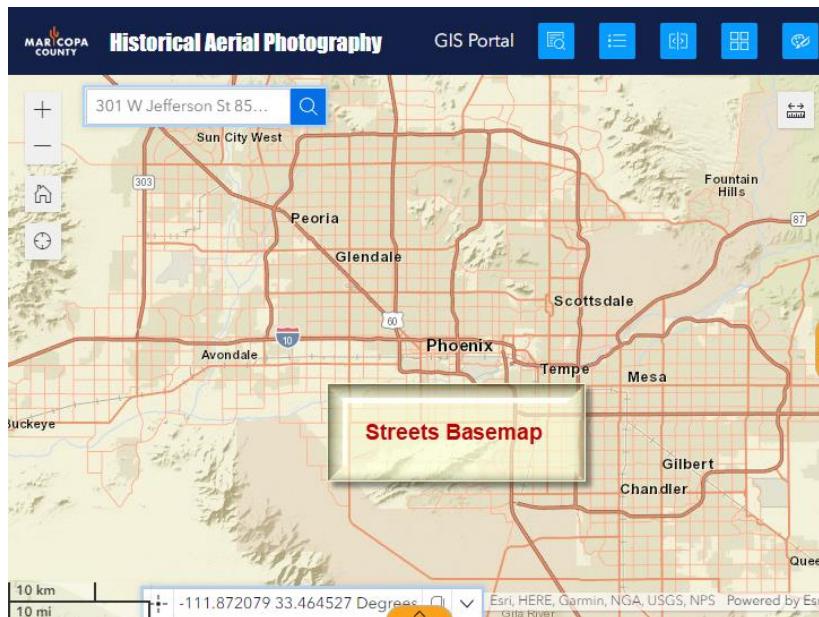
- Aerial Photography Not Available



A screenshot of a historical aerial photography interface. On the left is a map of the Queen and Sacaton areas. On the right is a list of historical aerial photography layers. A large red arrow points from the map towards the list, highlighting the bottom item: "Aerial Photography Not Available".

▶ <input type="checkbox"/> 1953 Mar - 1953 May	☰	...
▶ <input type="checkbox"/> 1951 Apr - 1951 Apr	☰	...
▶ <input type="checkbox"/> 1949 Feb - 1949 Apr	☰	...
▶ <input type="checkbox"/> 1937 Jan - 1937 Dec	☰	...
▶ <input type="checkbox"/> 1930 Jan - 1930 Jan Oblique	☰	...
▶ <input type="checkbox"/> 1930 Jan - 1930 Jan	☰	...
▶ <input type="checkbox"/> Aerial Photography Not Available	☰	...

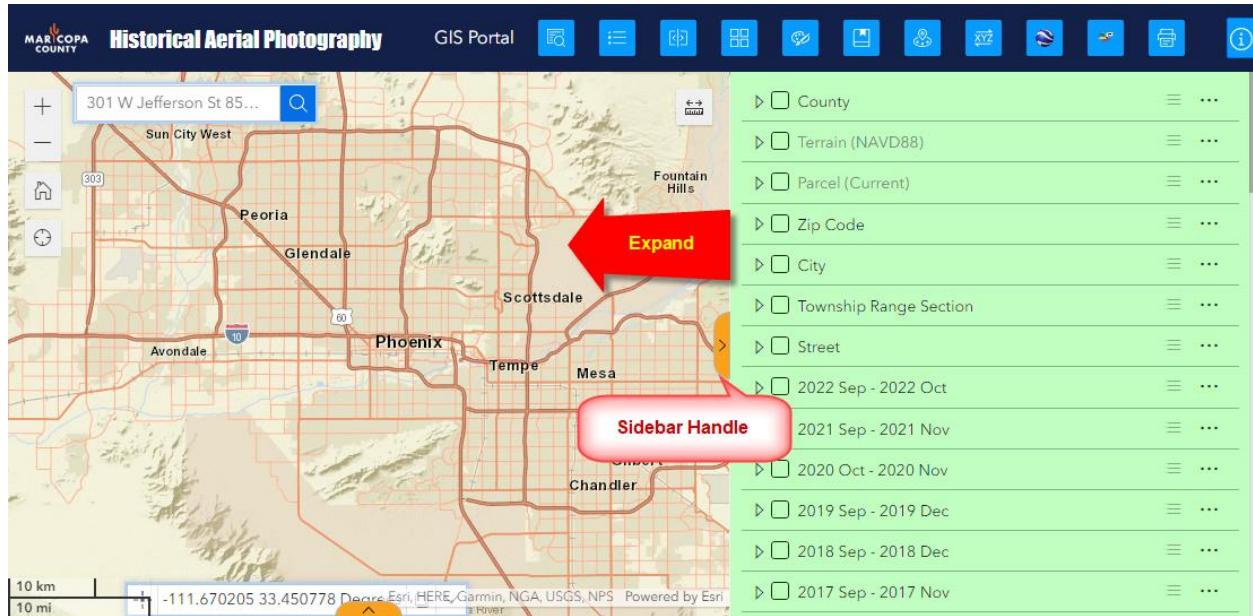
You are now viewing the **Streets Basemap**.



A screenshot of the historical aerial photography interface. The map shows the Phoenix metropolitan area with various cities labeled: Sun City West, Peoria, Glendale, Scottsdale, Phoenix, Tempe, Mesa, Gilbert, Chandler, and Queen Creek. A callout box highlights the "Streets Basemap". The sidebar on the right lists various basemap options, with "Streets Basemap" currently selected.

▶ <input type="checkbox"/> County	☰	...
▶ <input type="checkbox"/> Terrain (NAVD88)	☰	...
▶ <input type="checkbox"/> Parcel (Current)	☰	...
▶ <input type="checkbox"/> Zip Code	☰	...
▶ <input type="checkbox"/> City	☰	...
▶ <input type="checkbox"/> Township Range Section	☰	...
▶ <input type="checkbox"/> Street	☰	...
▶ <input type="checkbox"/> 2022 Sep - 2022 Oct	☰	...
▶ <input type="checkbox"/> 2021 Sep - 2021 Nov	☰	...
▶ <input type="checkbox"/> 2020 Oct - 2020 Nov	☰	...
▶ <input type="checkbox"/> 2019 Sep - 2019 Dec	☰	...
▶ <input type="checkbox"/> 2018 Sep - 2018 Dec	☰	...
▶ <input type="checkbox"/> 2017 Sep - 2017 Nov	☰	...

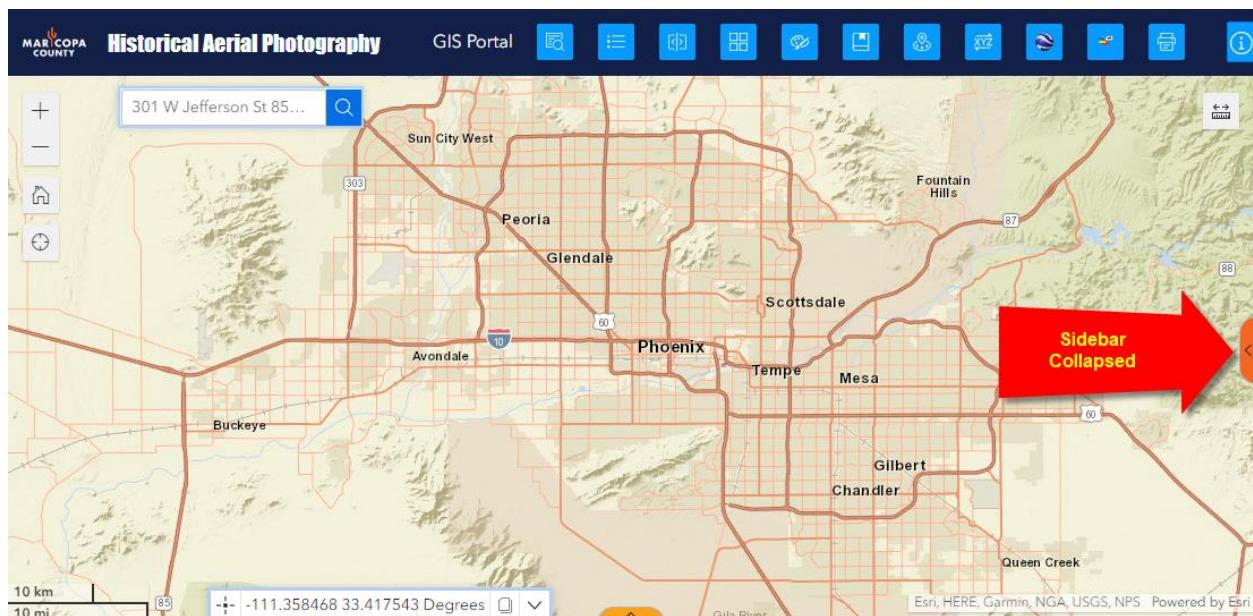
Notice that you can expand or contract the width of the Sidebar panel which houses the Map Layers Widget.



Click on the Sidebar handle to collapse it.

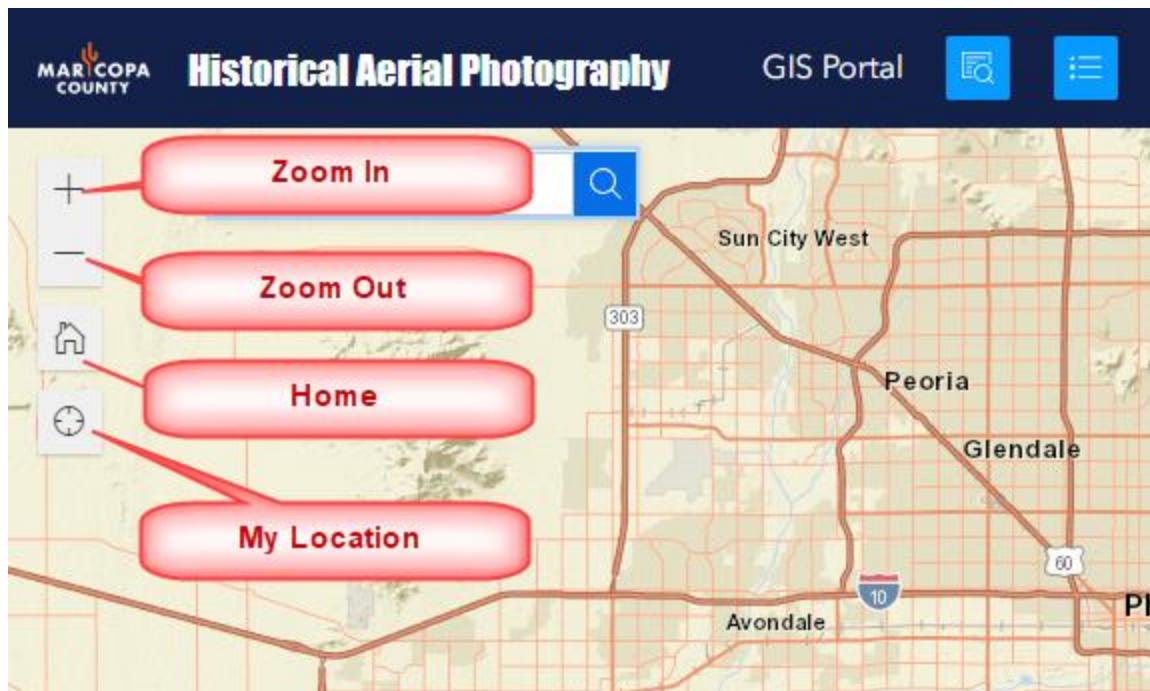
Now you have a clean slate.

This is a good starting point for your guided tour.



Along the top left edge, you will find 4 Navigation Tools.

- Zoom In
- Zoom Out
- Home
- My Location

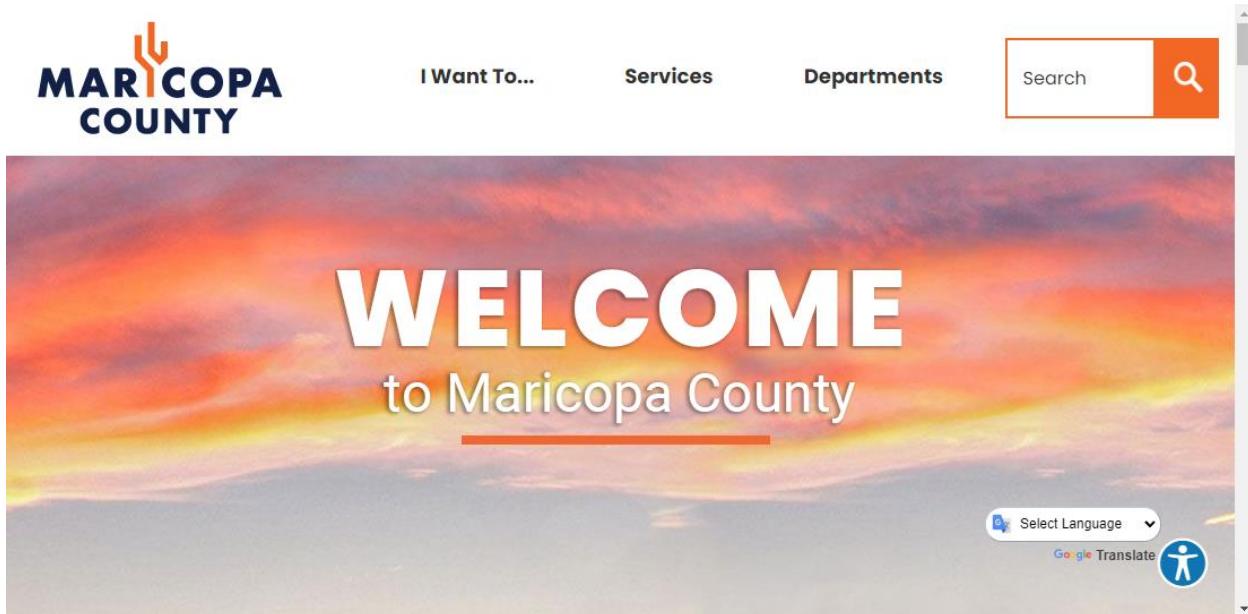


On the Header bar, you have the Maricopa County Logo, followed by the Title of this Web Application and a link to the Maricopa County GIS Portal.



Clicking on the **Maricopa County Logo** will launch the Maricopa County Welcome page.

<https://www.maricopa.gov/>



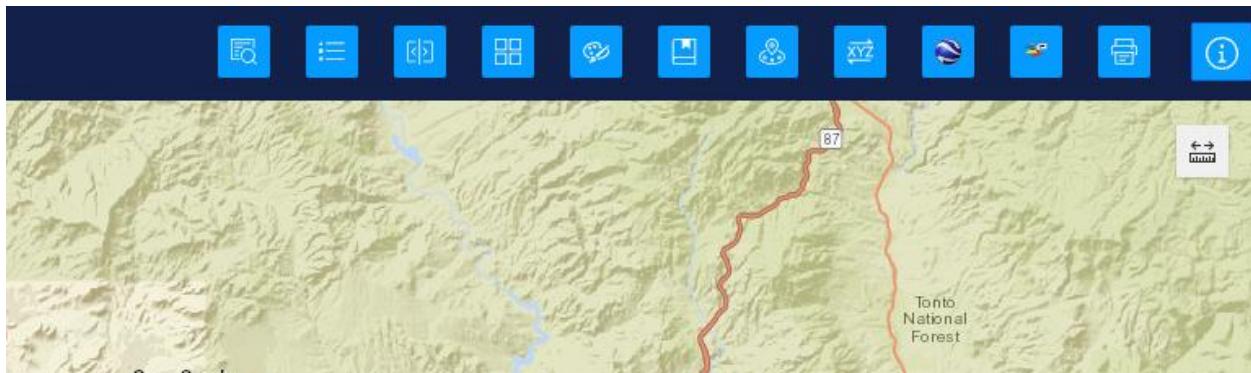
Clicking on the **GIS Portal** link will open the landing page for all GIS Applications.

<https://www.maricopa.gov/3942/GIS-Mapping-Applications>

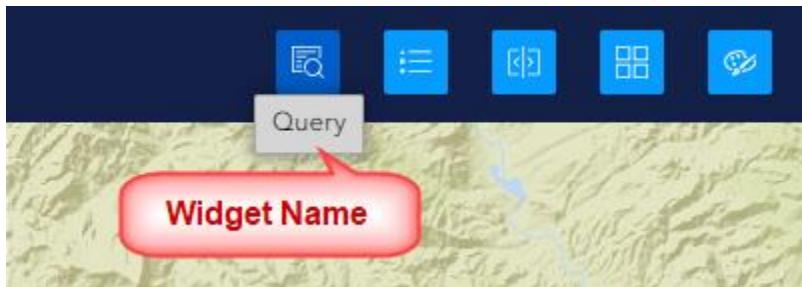
The screenshot shows the Maricopa County GIS Mapping Applications homepage. At the top, the Maricopa County logo is on the left, and a navigation bar with links for "I Want To...", "Services", "Departments", and a search bar is on the right. The main background image is a photograph of several drones flying against a sunset sky. Below the header, a breadcrumb trail indicates the user's path: Home > Departments > GIS Maps > GIS Mapping Applications. The title "GIS MAPPING APPLICATIONS" is centered above a section titled "GENERAL MAPS". This section contains three map thumbnails with descriptions:

- Stray Dogs & Cats**: Find dogs and cats being held at county facilities from the last 3-days or add your own lost or found pet to the map for 5-days with a description and a photo.
- Parcels**: View parcel information.
- Overdue Property Taxes**: View which parcels have overdue property taxes and unsold liens.

There are 12 widgets located on the Header bar.



Hovering your mouse over a widget will display the widget name.



You can open or close any widget by clicking on its icon.

When you open a widget, the icon turns orange.

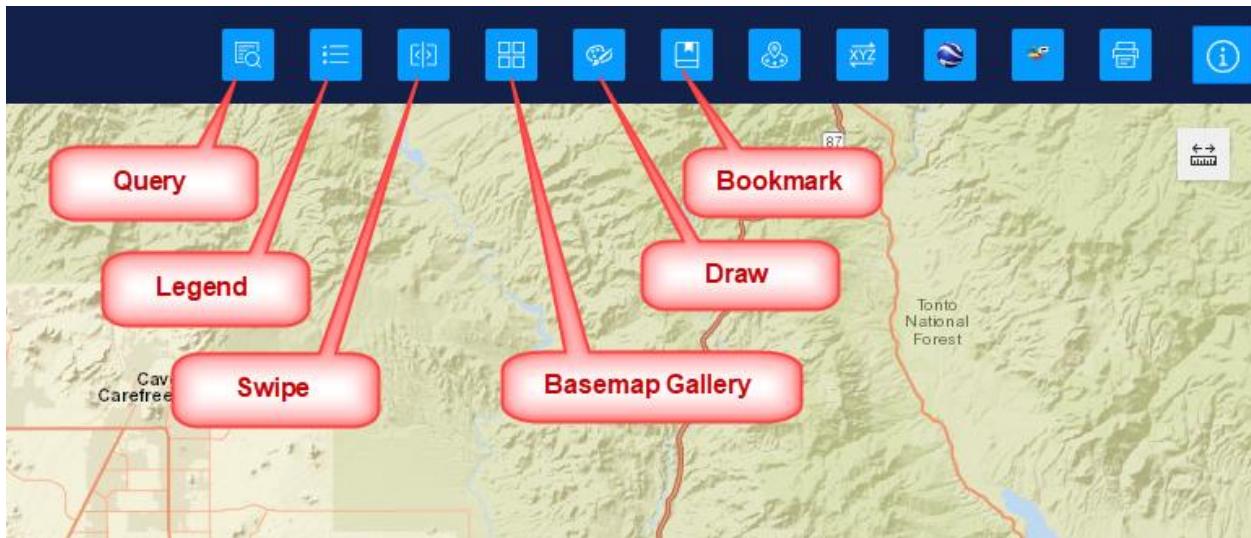
When you click on it again, it closes the widget turning the icon color back to blue.

When you hover over a widget, the icon color changes to a deeper shade of blue.

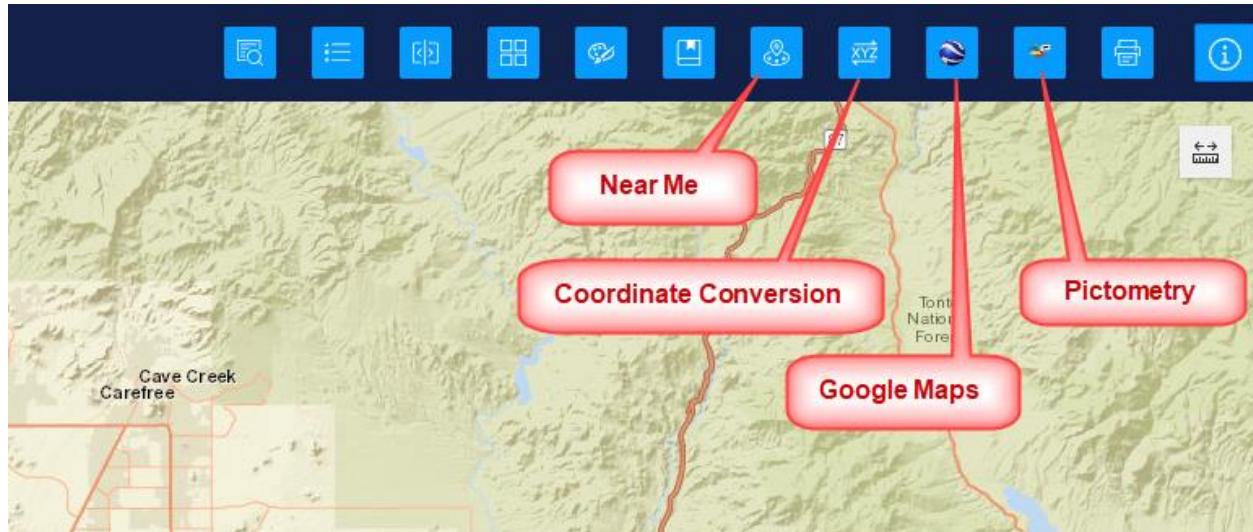
You can have multiple widgets open at once.

These are the names of the 12 widgets on the Header bar:

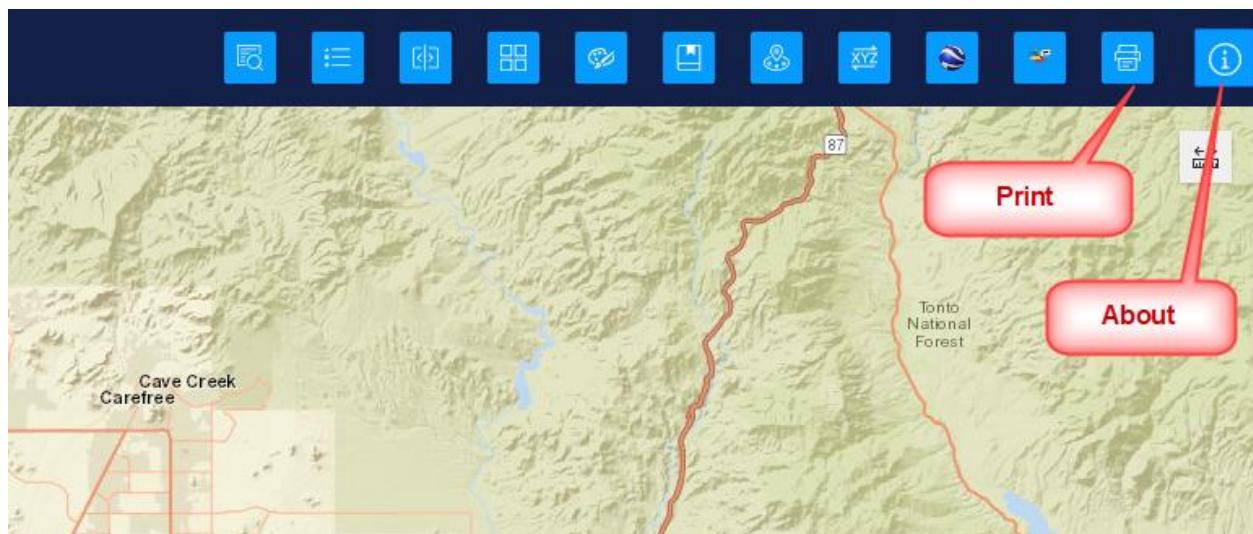
- Query Widget
- Legend Widget
- Swipe Widget
- Basemap Gallery Widget
- Draw Widget
- Bookmark Widget



- Near Me Widget
- Coordinate Conversion Widget
- Google Maps
- Pictometry

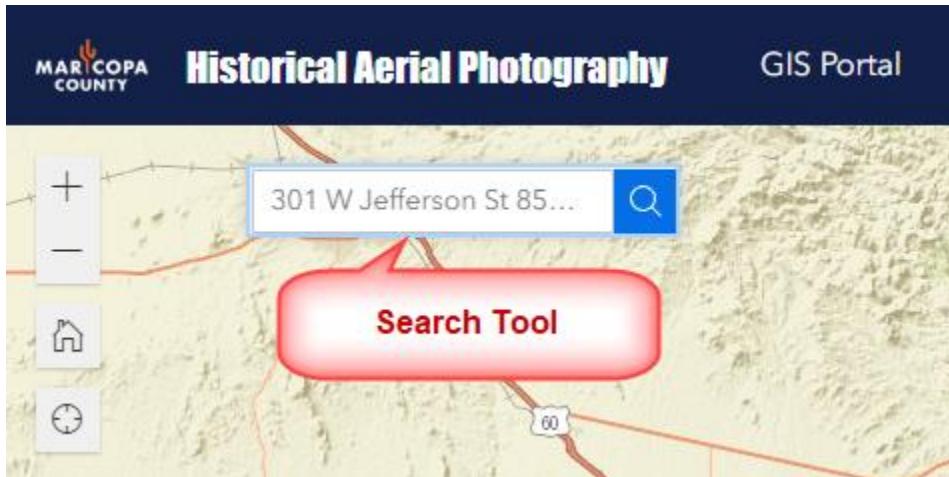


- Print Widget
- About Widget

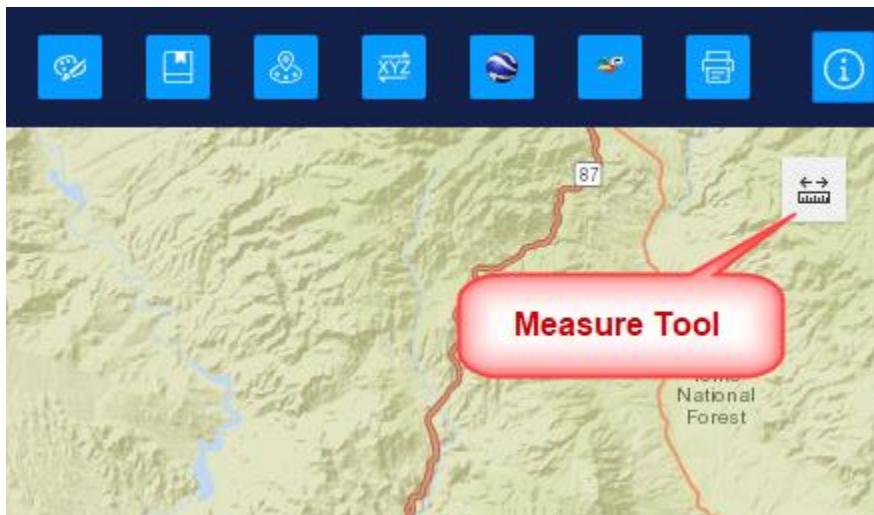


In addition, there are 5 more Widgets and Tools within the Map Area.

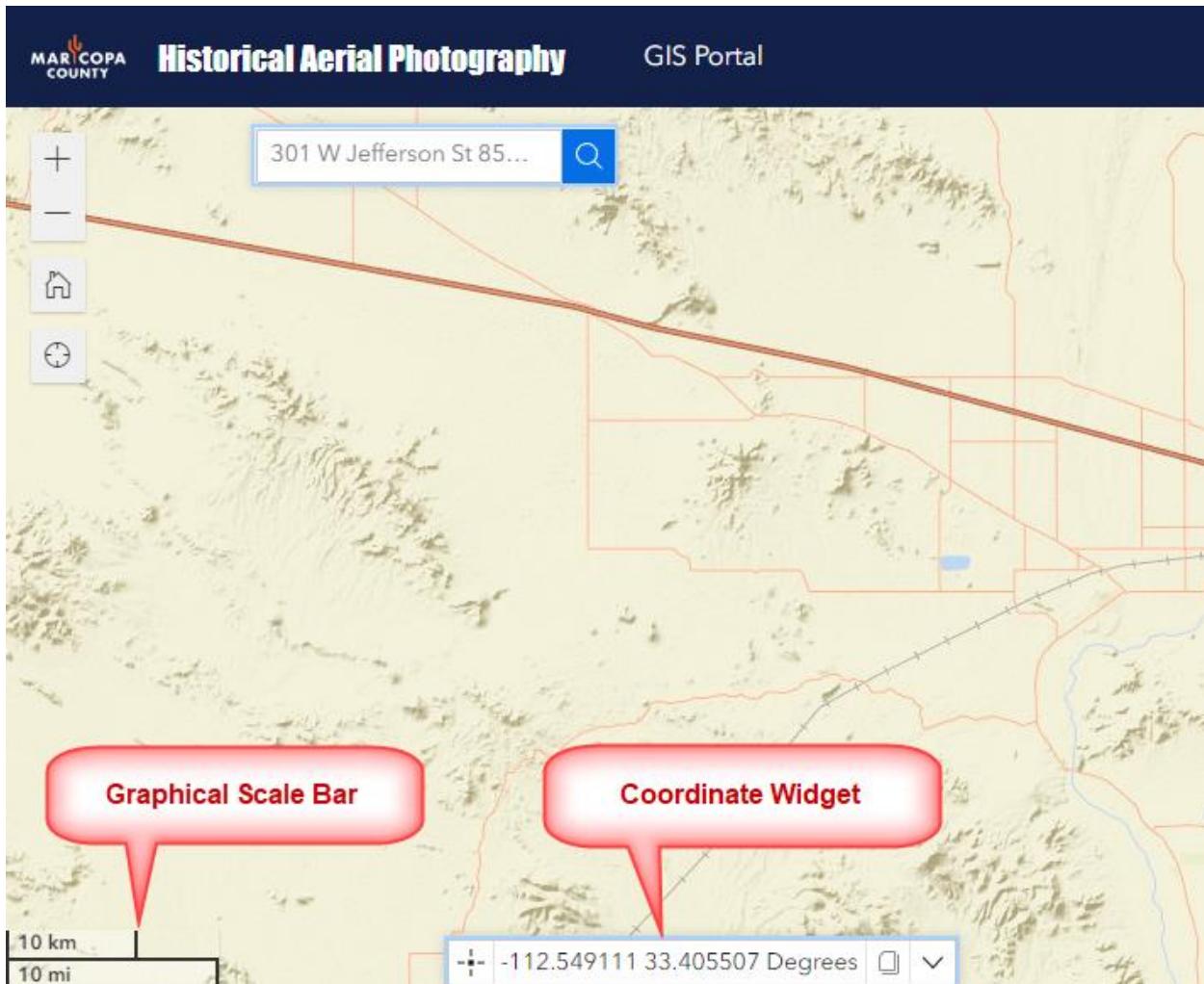
There is a **Search Tool** on the upper left.



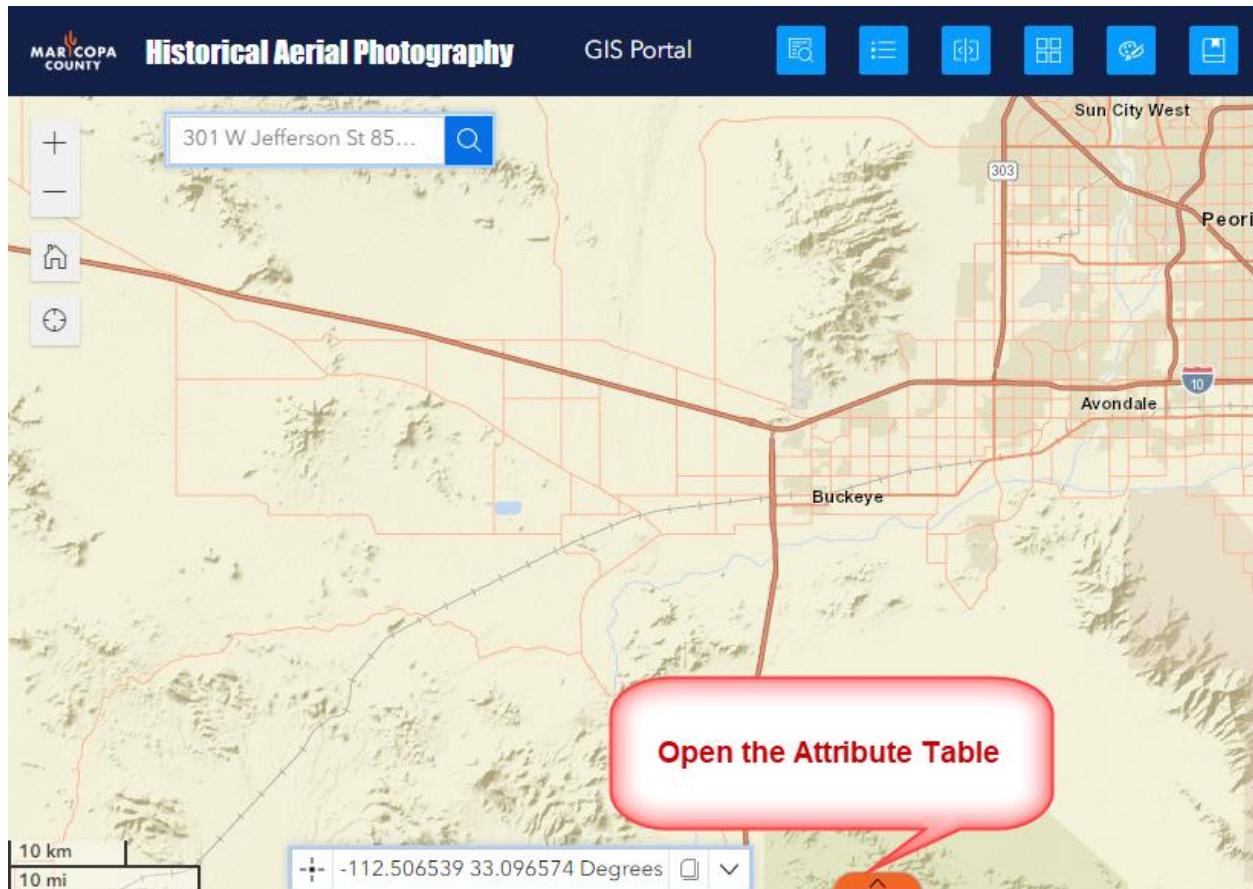
You have a **Measure Tool** on the upper right.



There is a **Graphical Scale Bar** and a **Coordinate Widget** on the bottom edge of the map.



You can click on the Sidebar handle on the bottom edge to open the **Attribute Table**.



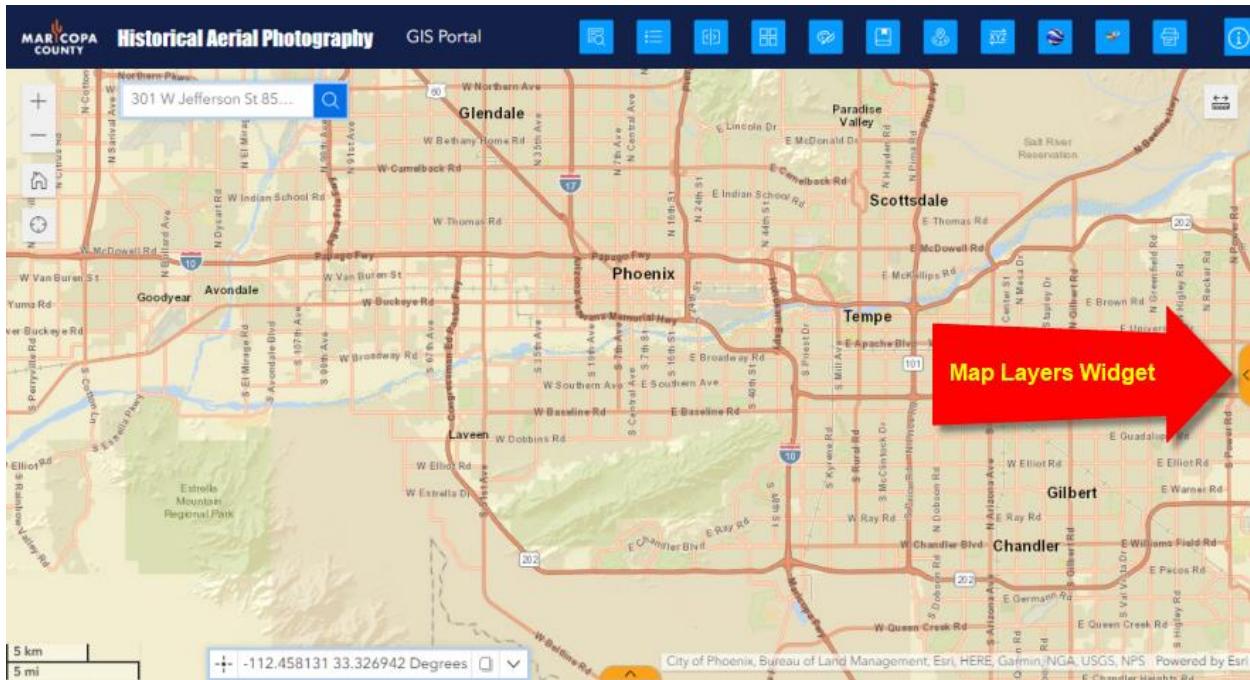
You can expand the height of the Attribute Table.

The screenshot shows a GIS map of the Phoenix metropolitan area in Maricopa County, Arizona. A search bar at the top left contains the address "301 W Jefferson St 85...". Below the map is a search bar with coordinates "-113.068215 33.363653 Degrees". A red speech bubble with the text "Expand the Height" points to the bottom edge of the Attribute Table. The table has three columns: "ZipCode", "CommunityName", and "...". It lists several zip codes and their corresponding community names:

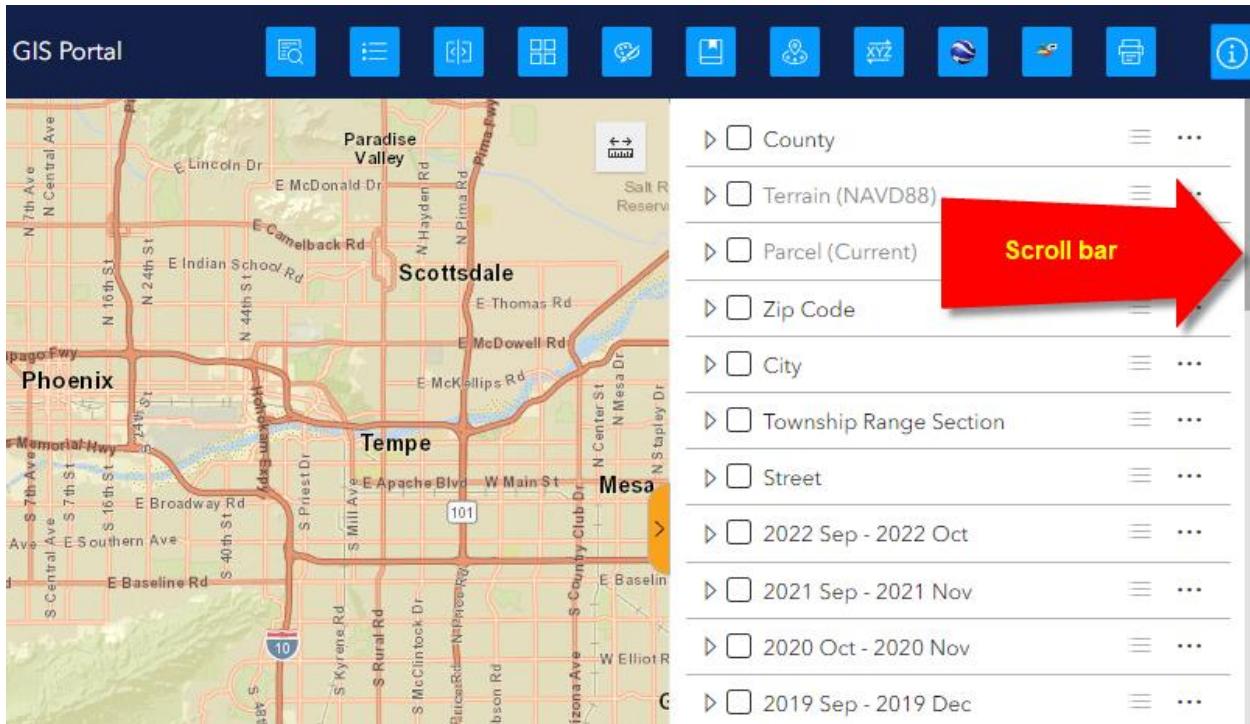
ZipCode	CommunityName	...
85309	LUKE AIR FORCE BASE	...
85355	WADDELL	
85250	SCOTTSDALE	
85322	ARLINGTON	
85351	SUN CITY	

You can manage the size of your map display area by collapsing and resizing these Sidebars on the bottom and right.

The collapsible and resizable Sidebar on the right houses the **Map Layers Widget**.



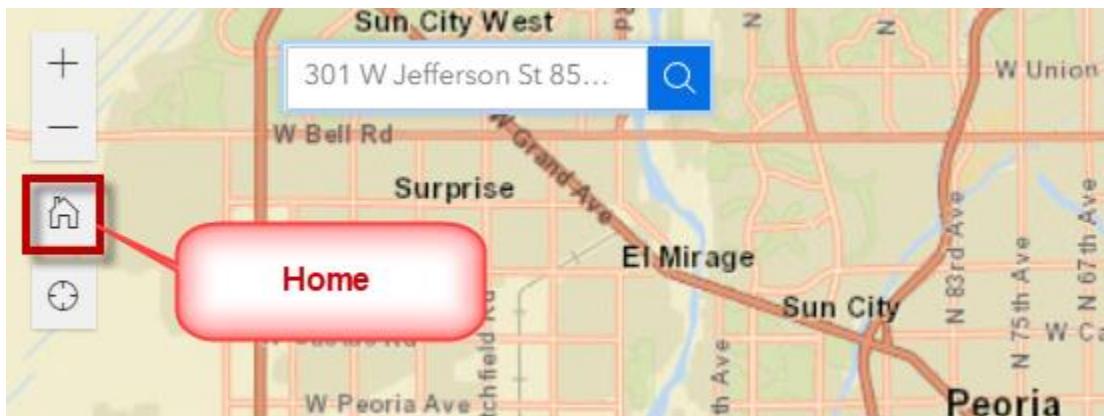
Drag the scroll bar in the Map Layers widget to see the full list of all the Historical Aerials.



## Navigation Tools

### Home Button

Whenever you want to go back to the Default Map View, press the **Home** Button.



This is your default map view.

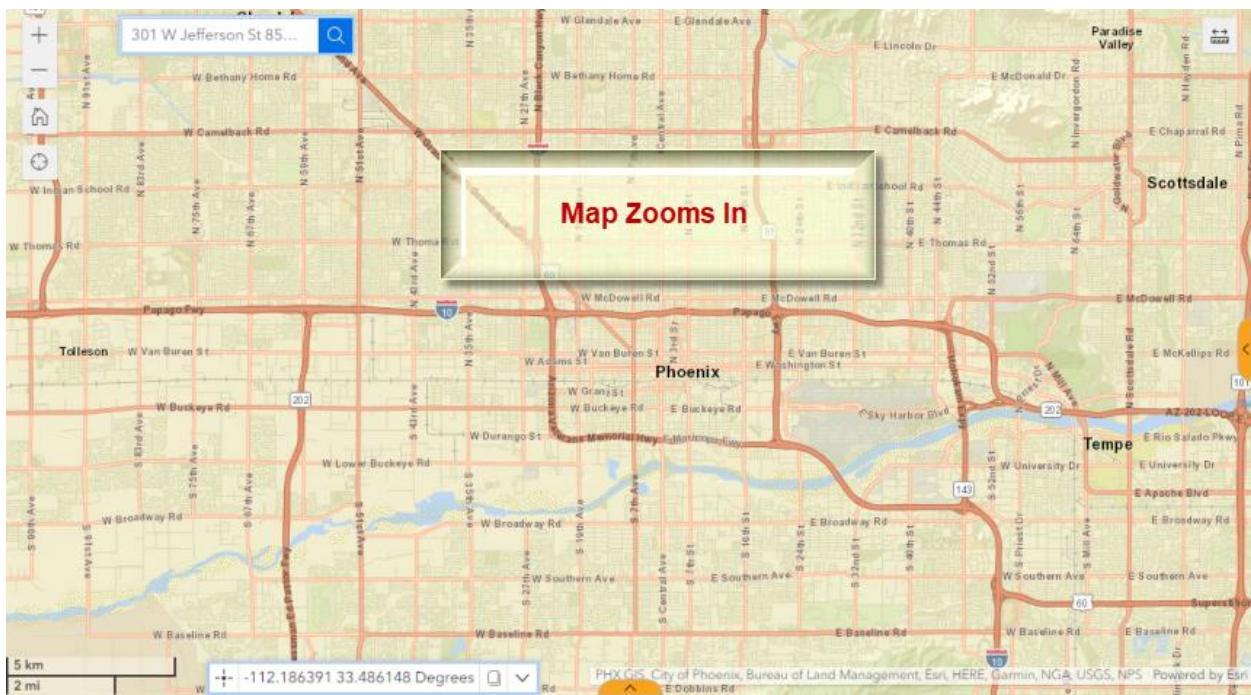


## Zoom In Tool

Press the **Zoom In** tool once.

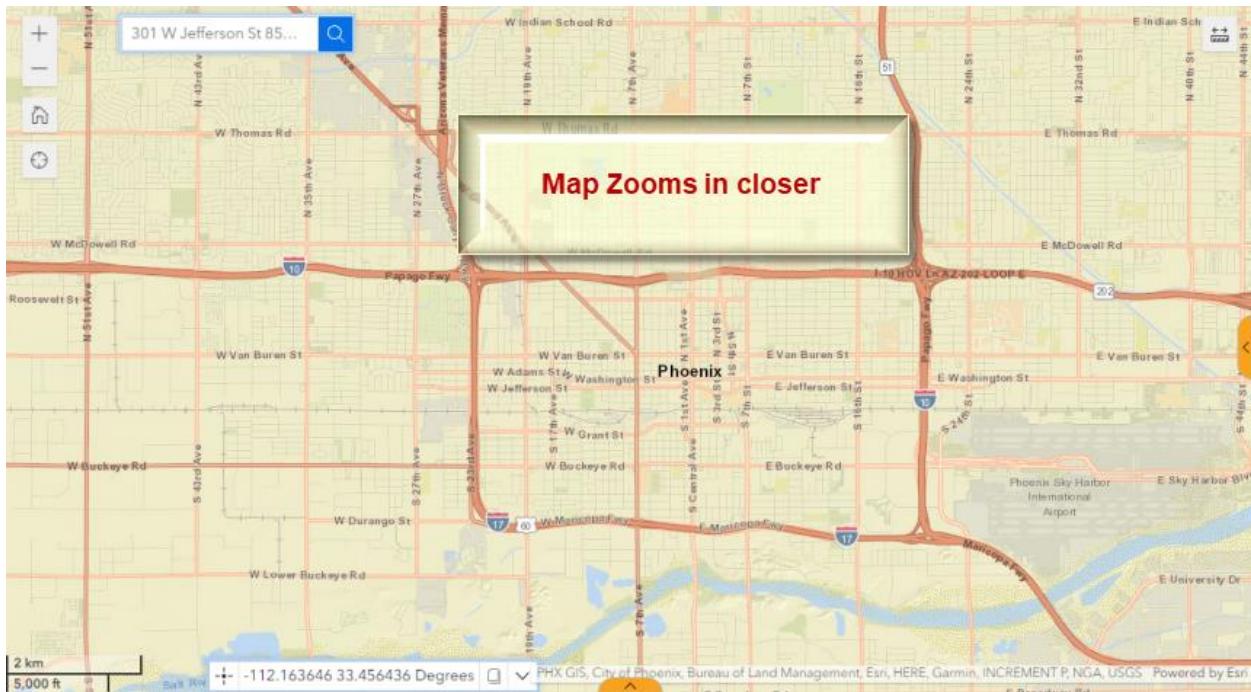


Notice how the map zooms in by one level.



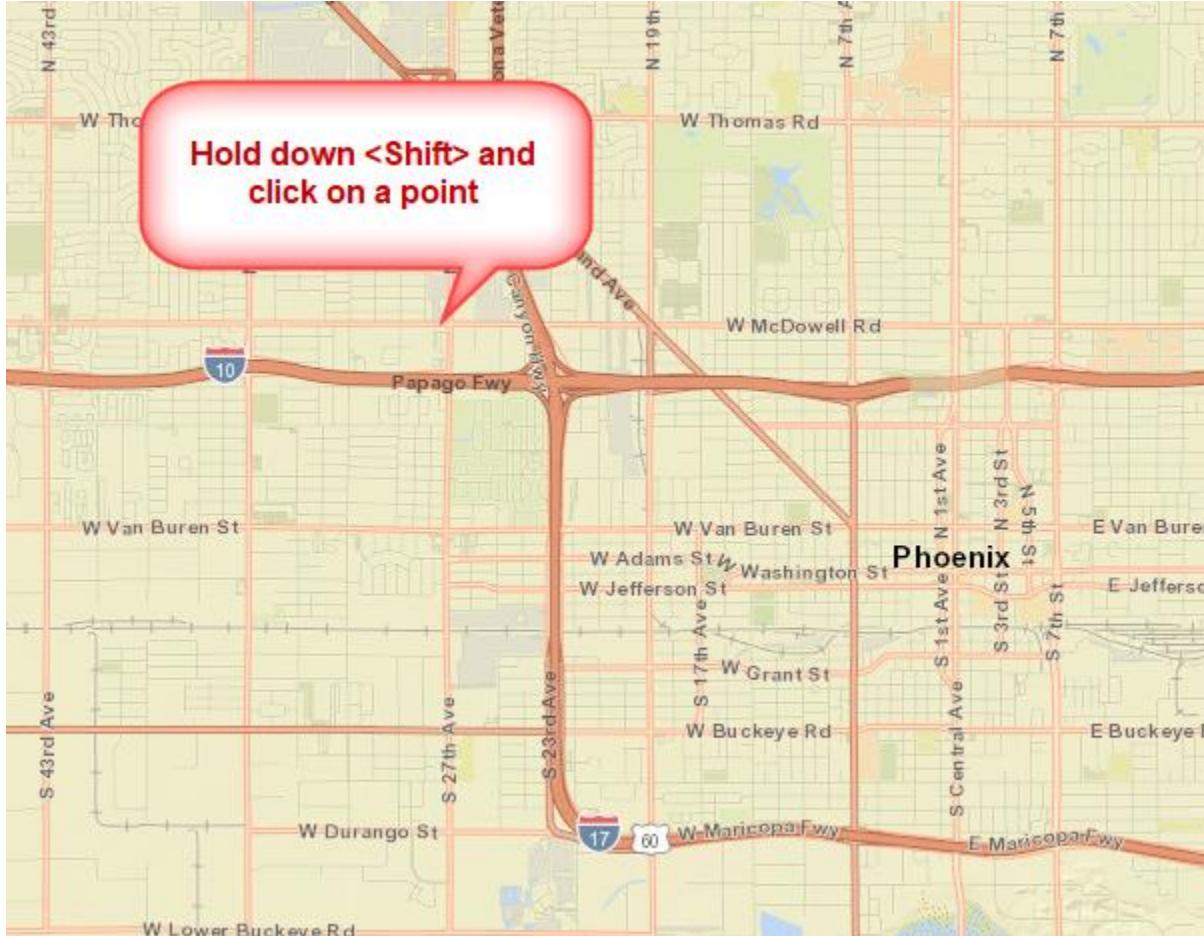
Press the **Zoom In Tool** one more time.

The map zooms even closer.



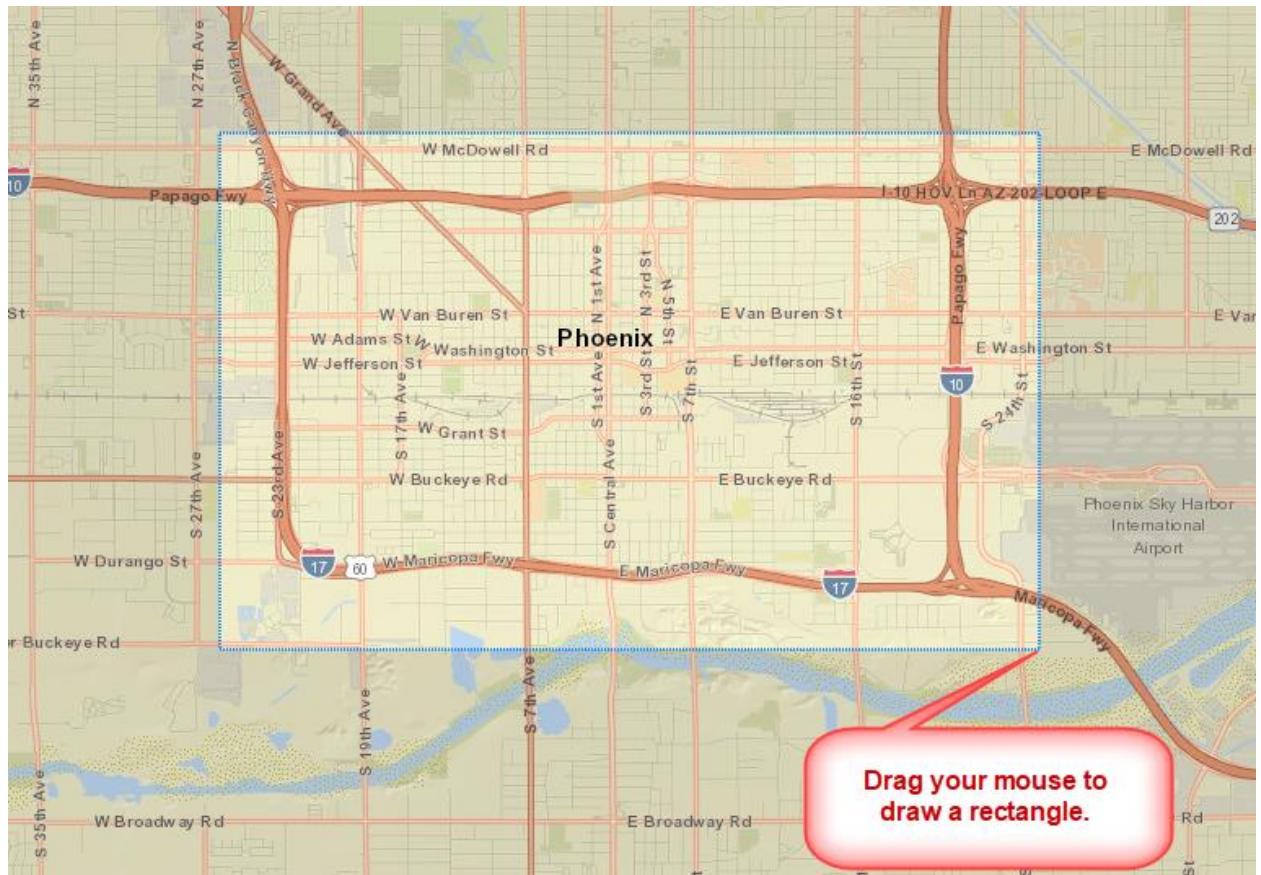
There is a faster way to zoom in to your area of interest.

Hold down your **<Shift>** Key and then click on a point on the map with your left mouse button.



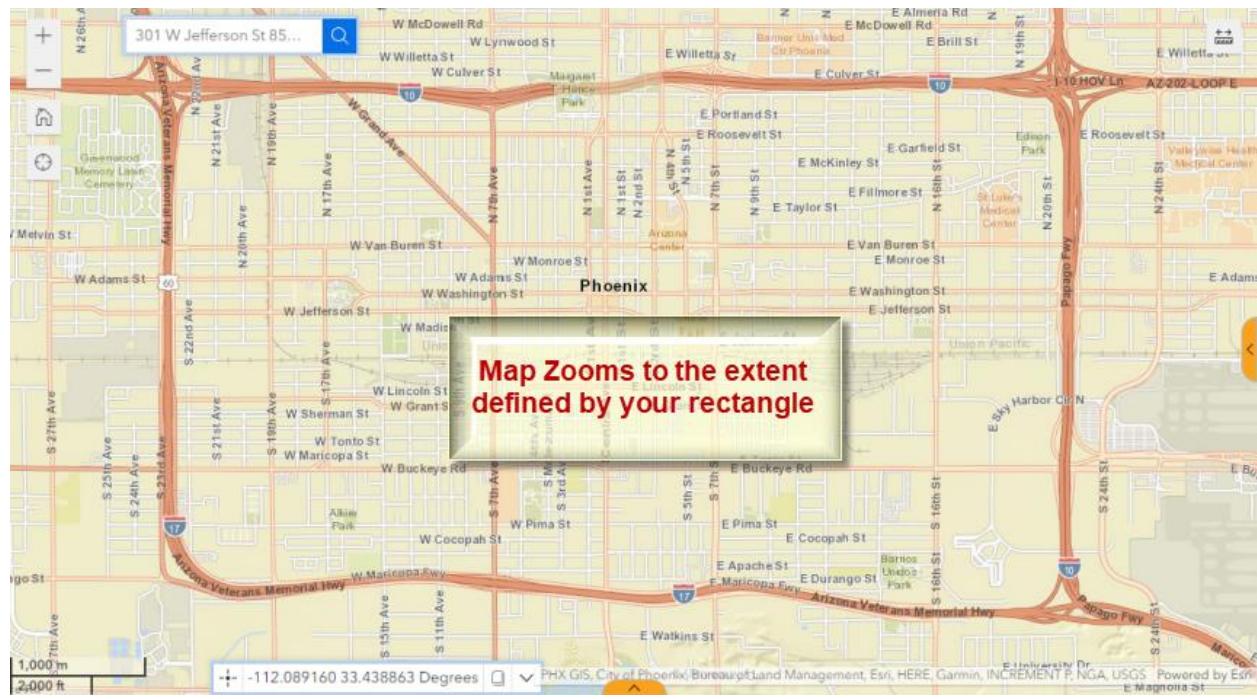
*Do not release your left mouse button!*

Drag your mouse to draw a rectangle.



Release your mouse.

The map will zoom to the extent defined by your rectangle.



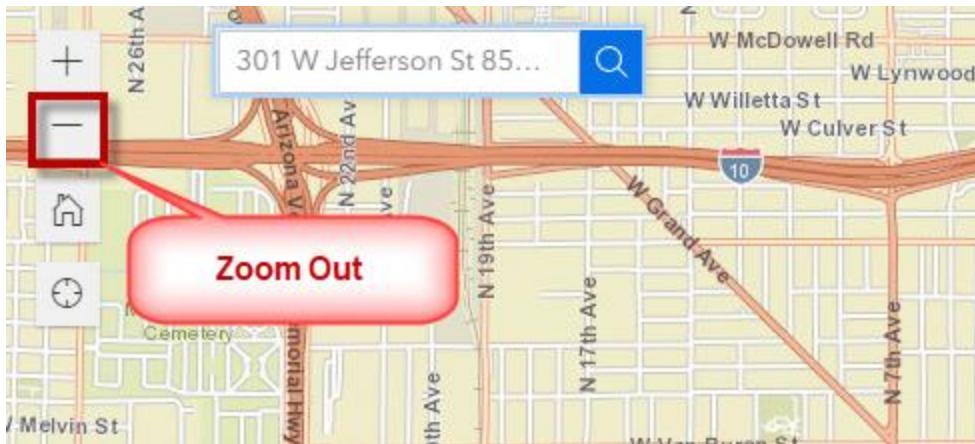
On a tablet you may not have access to a mouse.

To zoom out, use two fingers to pinch out.

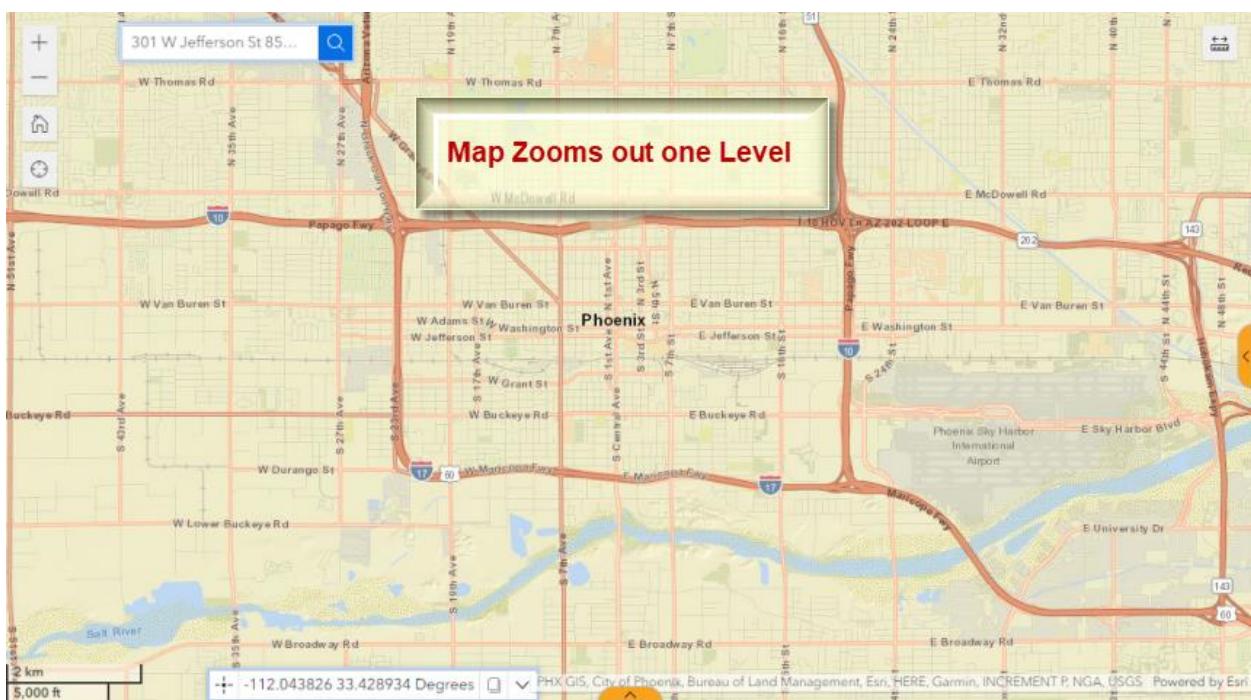
## Zoom Out Tool

This works in reverse to the Zoom In Tool.

Click once on the **Zoom Out Tool**.



The map will zoom out one level.



There is a more efficient way to zoom out.

Hold down your **<Shift> + <Control>** Keys while dragging a rectangle with your left mouse button on the map.



*The smaller this rectangle the further you will zoom out.*

The map will zoom out.



On a tablet you may not have access to a mouse.

To zoom out, use two fingers to pinch in.

## Pan Tool

Notice, there is no explicit Pan Tool.

To Pan the map, hold down your left mouse button anywhere on the map and drag the map in any direction.



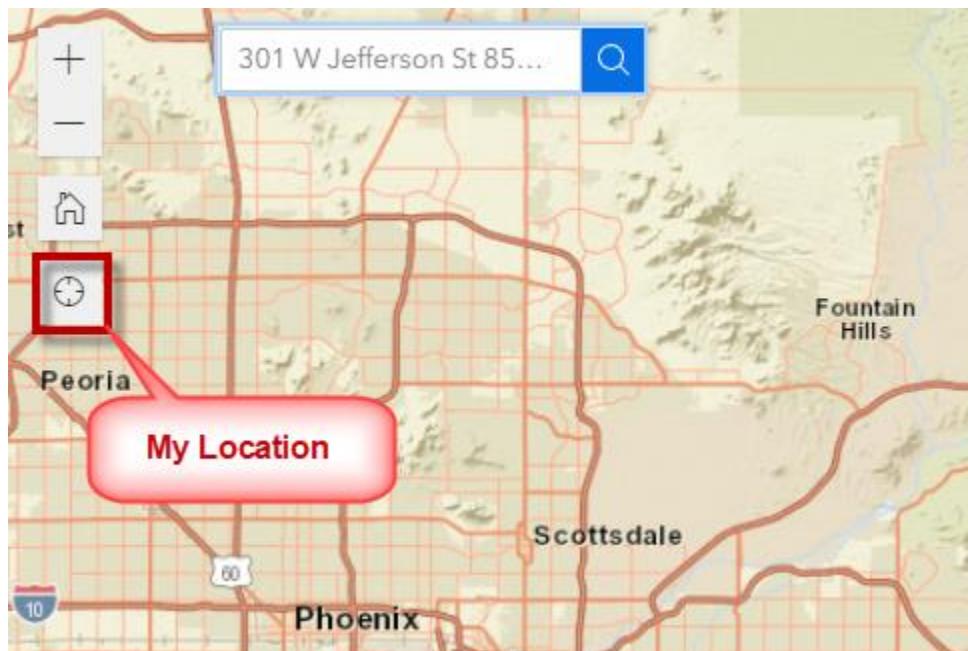
On a Tablet, hold down one finger to move the map around.

## Find My Location Tool

This works on a Tablet with Location Services turned on.

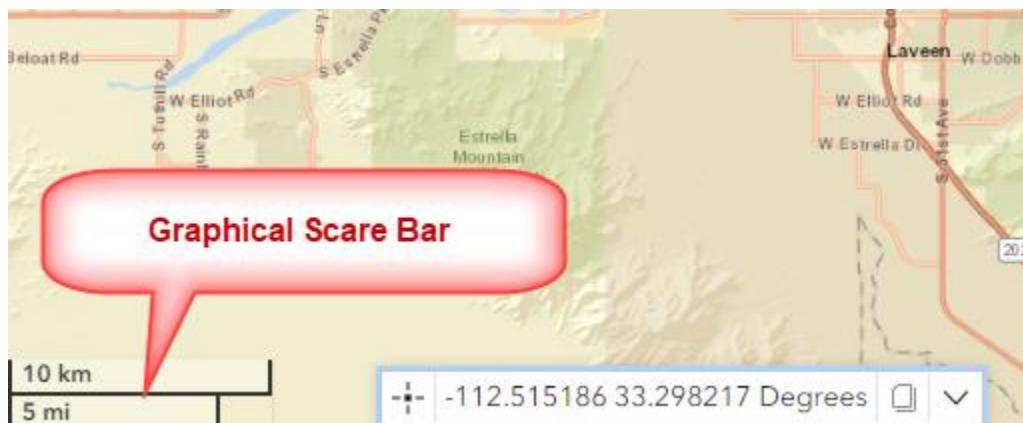
Click on the Find My Location Tool.

The map will zoom to your current location.



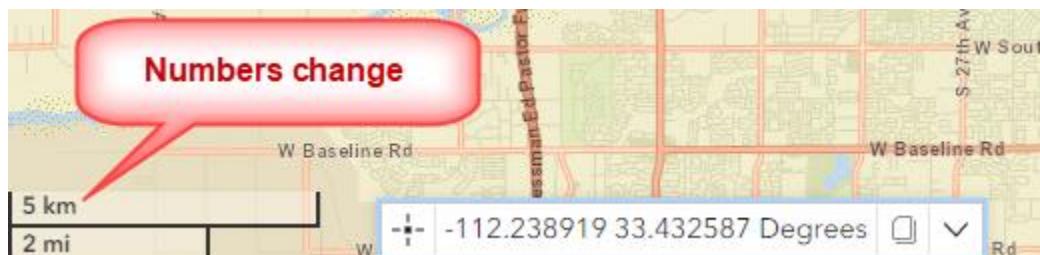
## Graphical Scale Bar

The Graphical Scale Bar on the lower left displays the scale in kilometers and miles when the map is zoomed to its default extent.



This scale bar is **dynamic**.

As you zoom in the numbers and units will change.



Zoom in closer. The units will change.



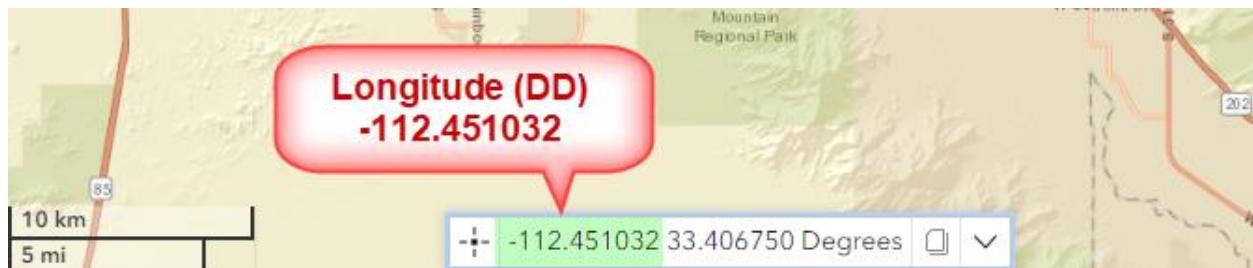
## Coordinate Widget

The Coordinate Widget is located next to the Graphical Scale Bar on the bottom edge.



It tracks the position of your mouse cursor in Decimal Degrees (DD) with 6 decimal places.

The Longitude Value (X) is shown first. It is *negative* to signify **West Longitude**.



The Latitude Value (Y) is shown next. It is *positive* to signify **North Latitude**.

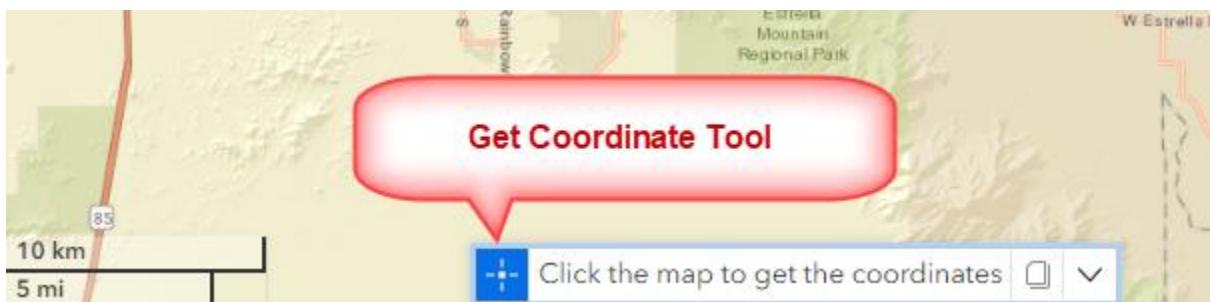


These geographic coordinates are based on the datum = WGS 1984 Web Mercator Auxiliary Sphere.



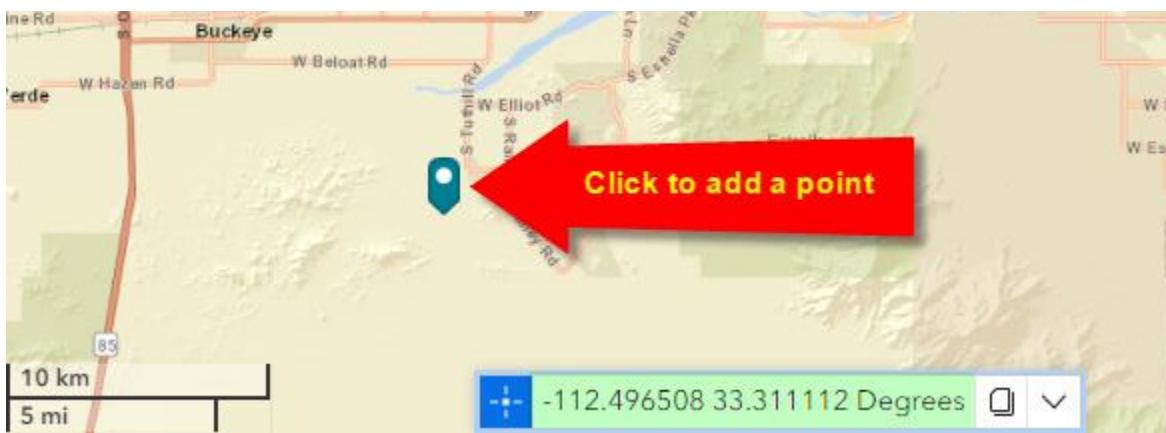
You can use the Coordinate Widget to take spot readings of your cursor.

Activate the **Get Coordinate Tool**.

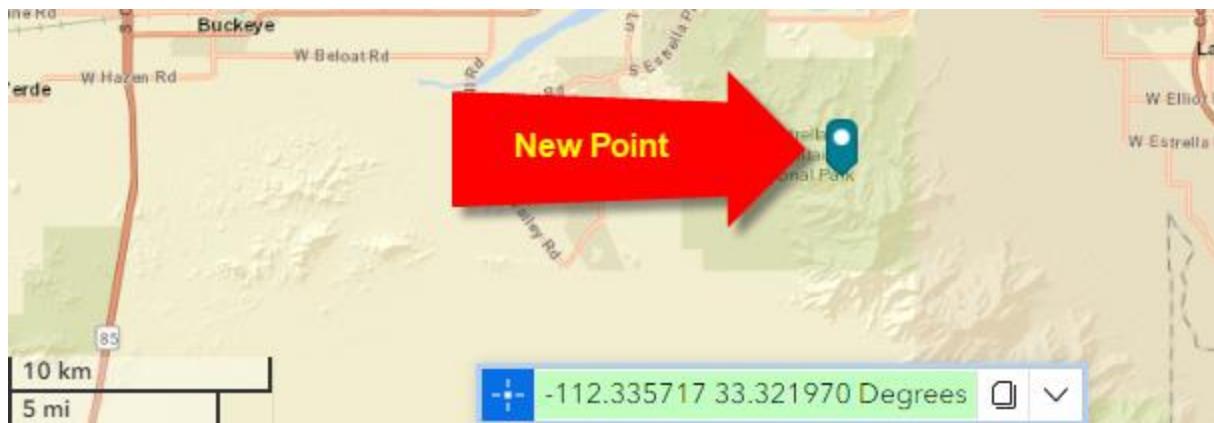


Click anywhere on the map to add a point.

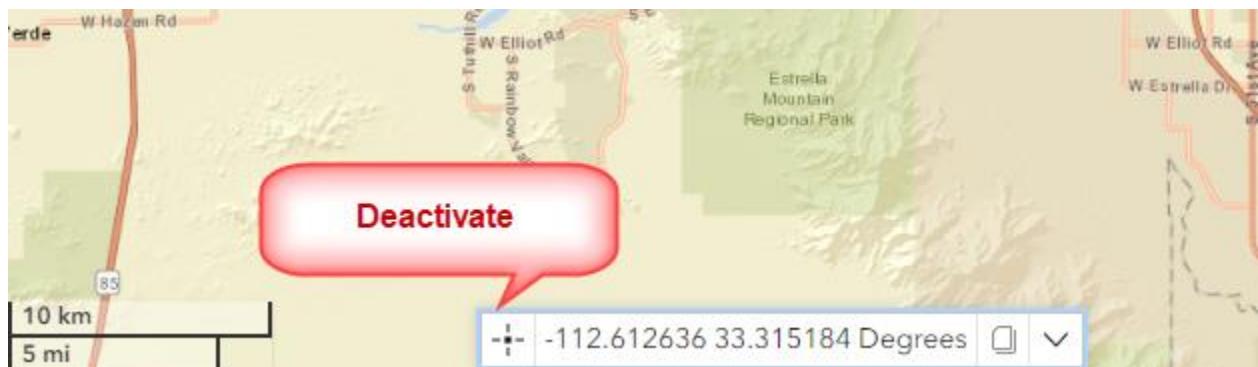
The coordinates of this point will be displayed.



These coordinates will not change until you click on another point.

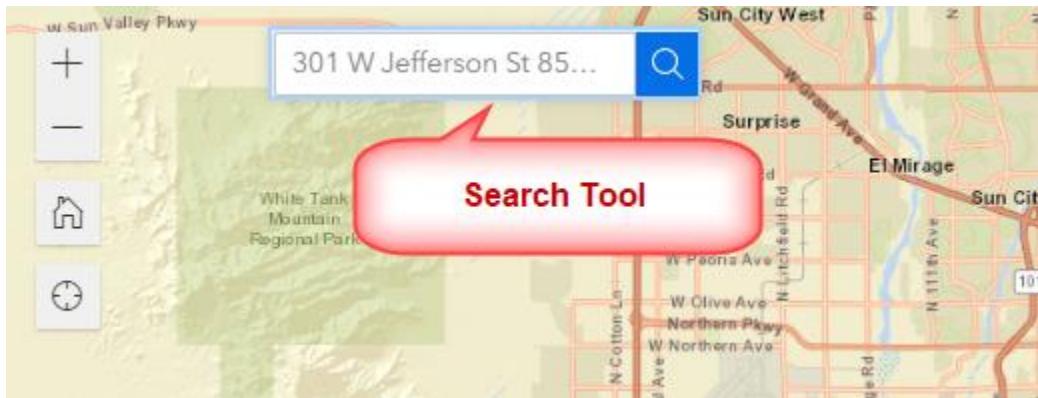


Deactivate the Get Coordinate Tool to go back to normal operation.



## Search Tool

The **Search Tool** is located on the upper left corner of the map.



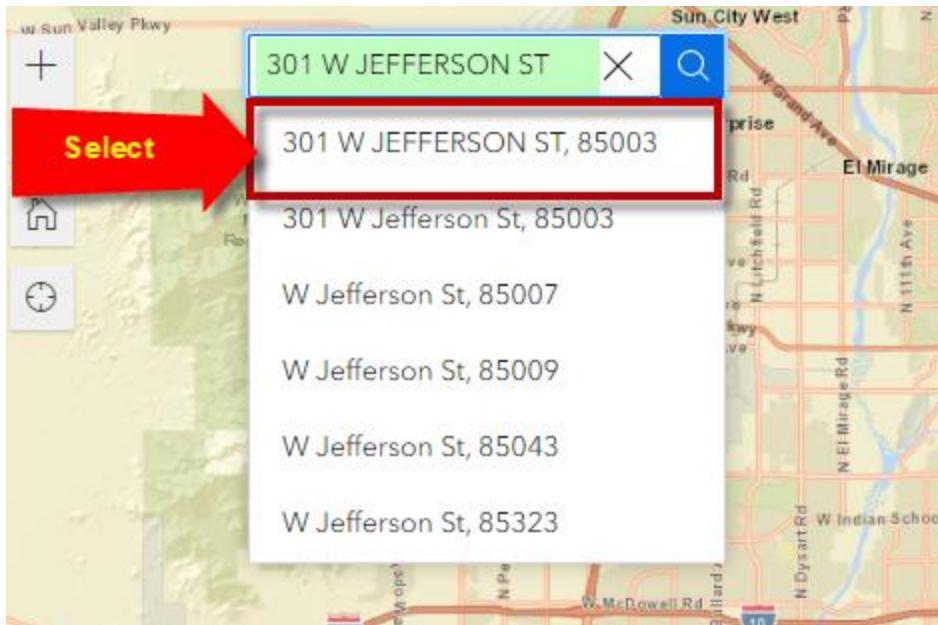
You can enter any valid Street Address with a House Number in Maricopa County.

Example:

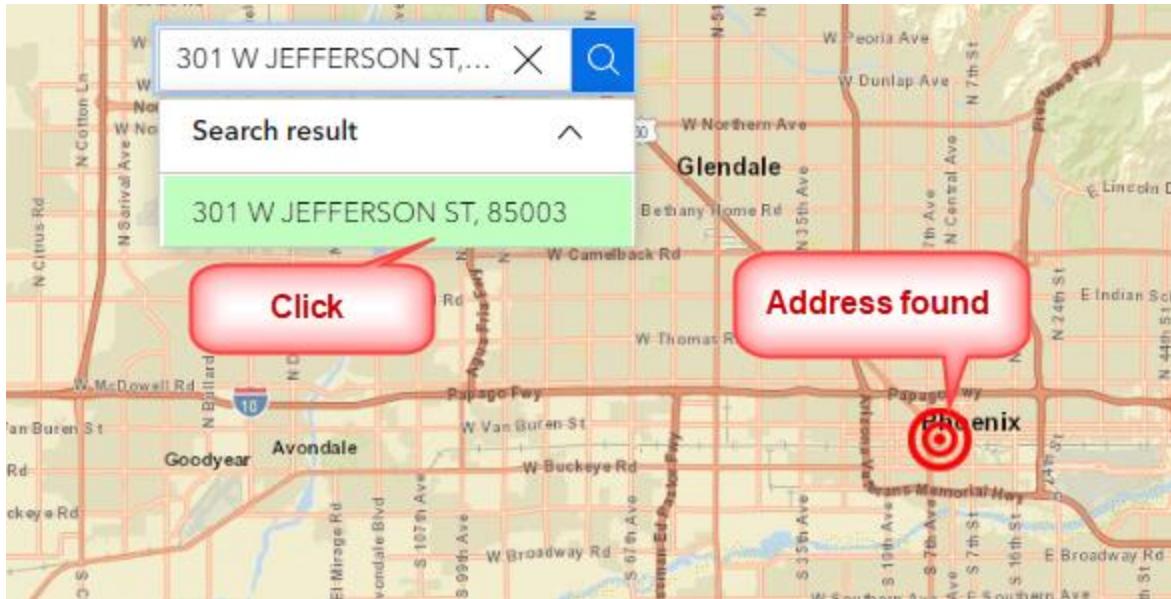
**301 W JEFFERSON ST**

Note: The case does not matter. Including the Zip code is optional.

Select 301 W JEFFERSON ST, 85003 from the list of matches.



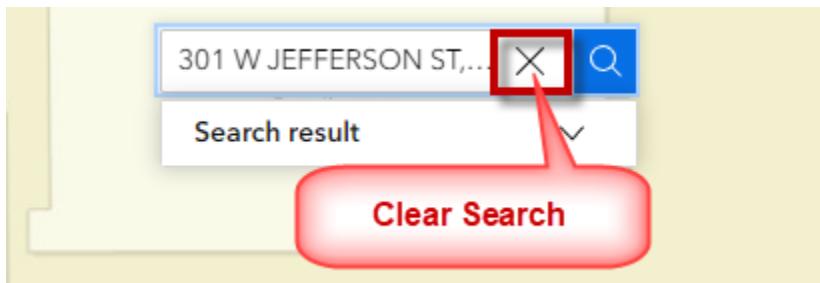
Click on the Search Result



The map zooms to the Maricopa County Administration Building.



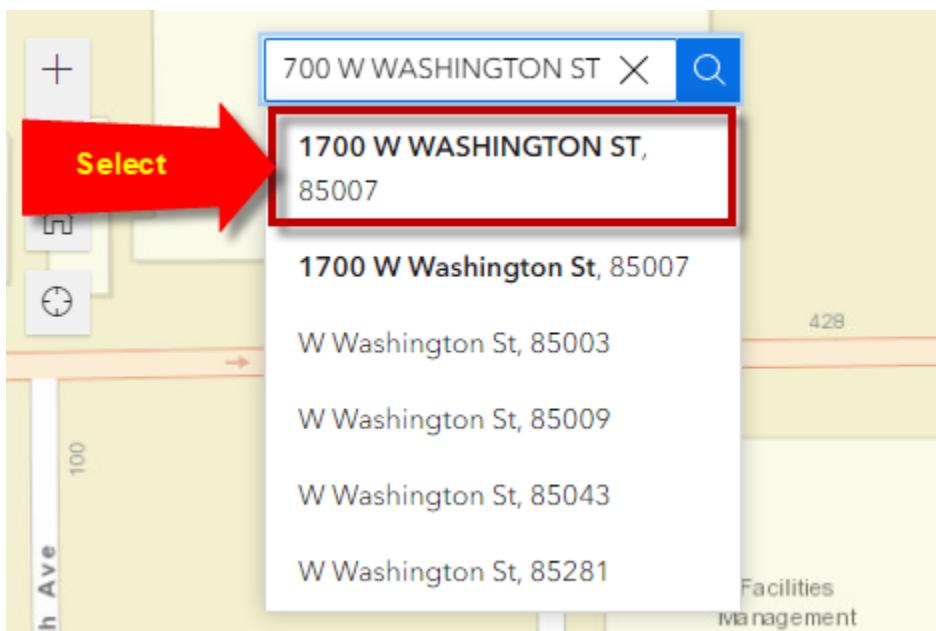
Clear this search.



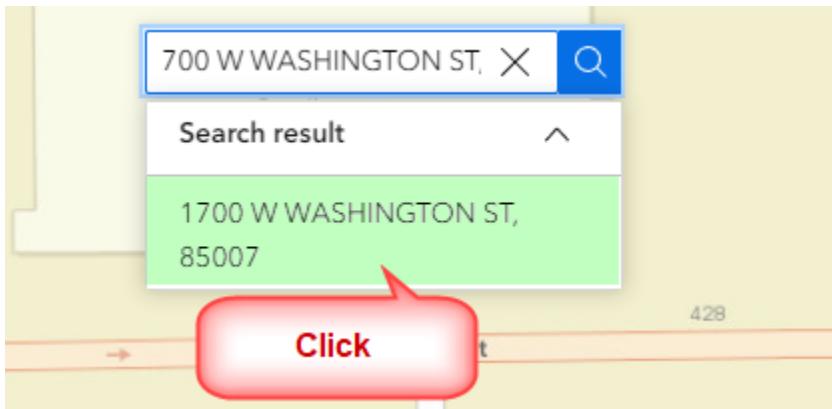
Enter another Street Address:

1700 W WASHINGTON ST

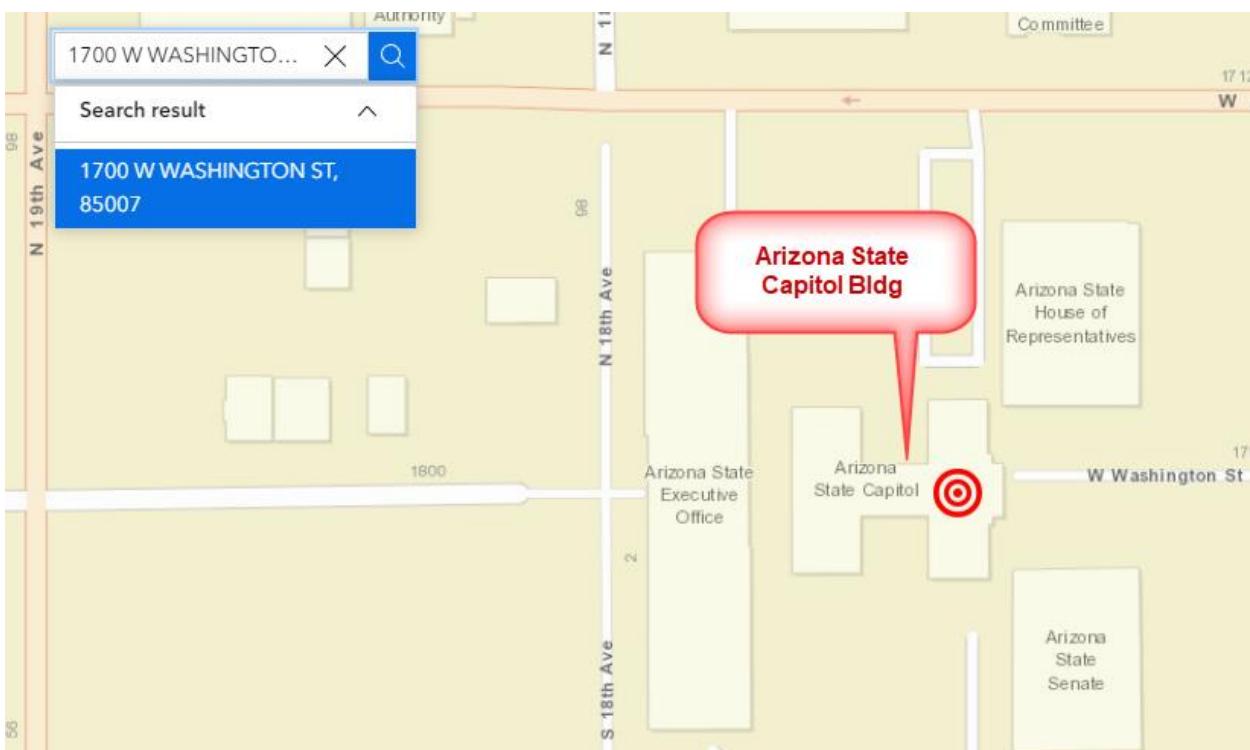
Select **1700 W WASHINGTON ST, 85007** from the drop-down list.



Click on the Search Result.



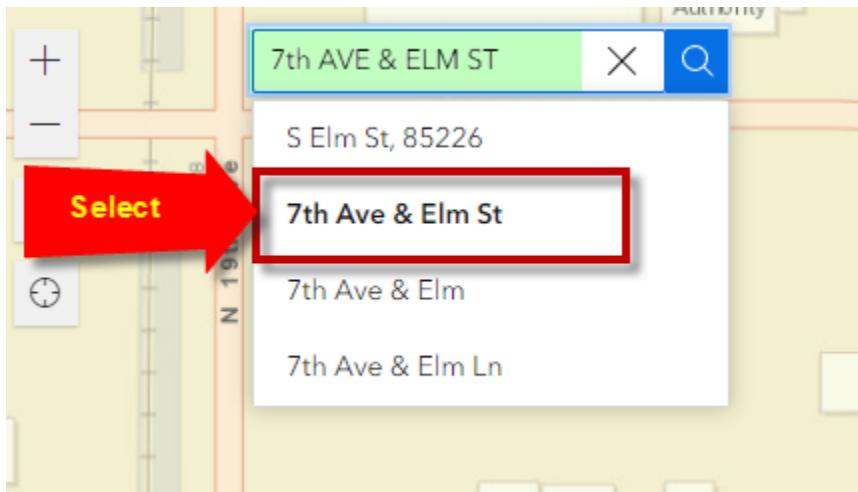
The map will zoom to the Arizona State Capitol Building.



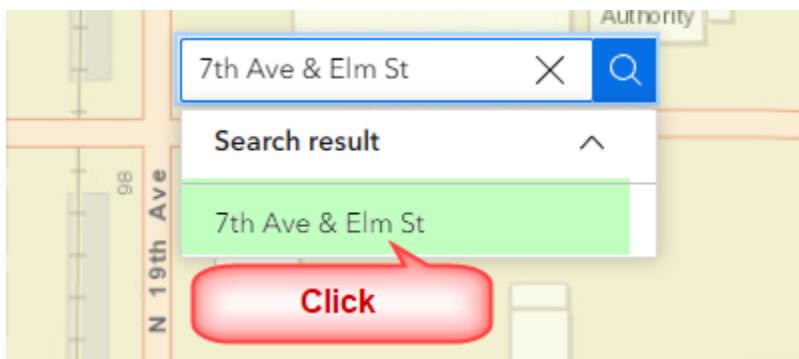
If you do not have the exact house number, you can enter the nearest cross street separated by an & sign.

For example:

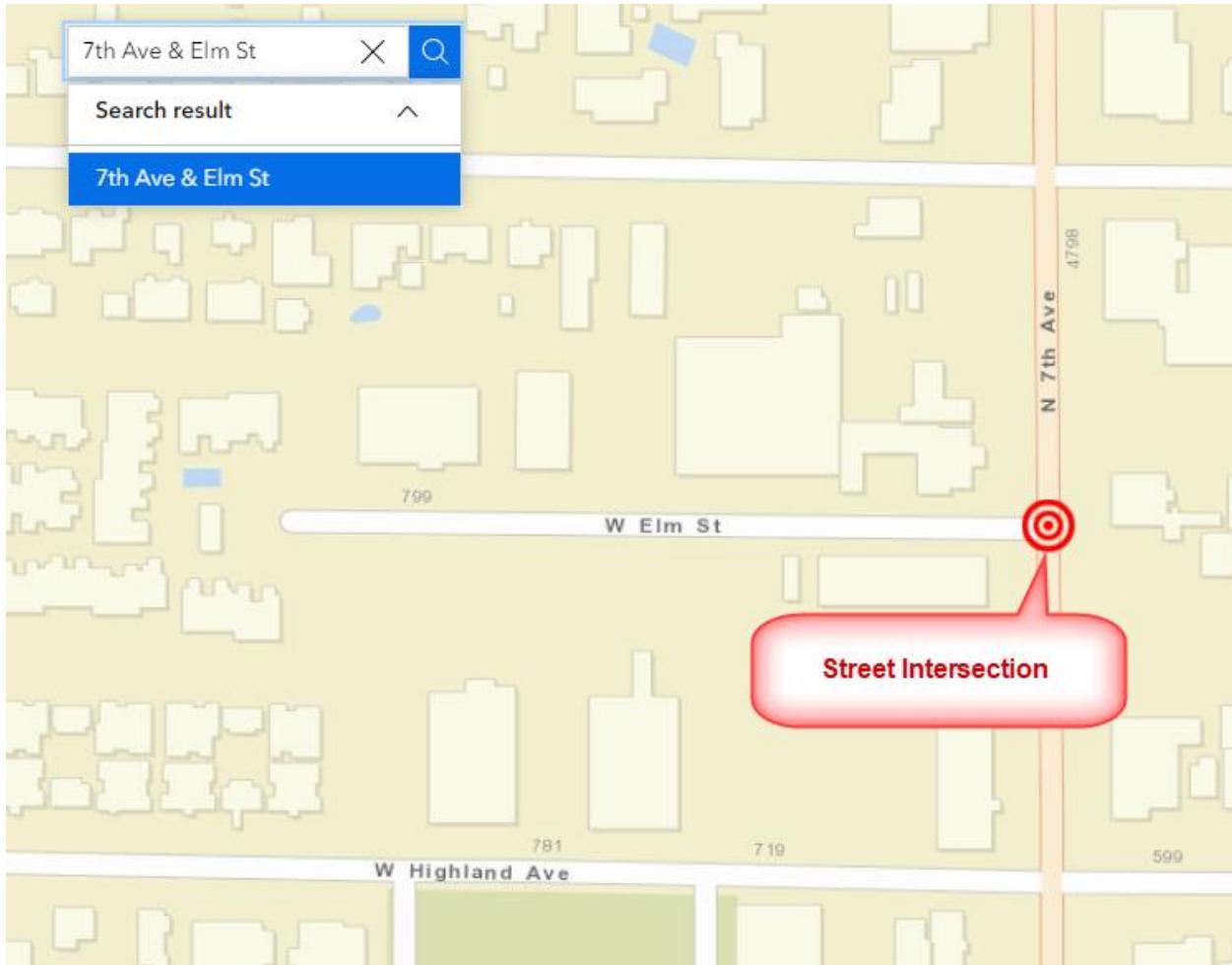
7<sup>th</sup> AVE & ELM ST



Click on the Search Result



The map will zoom to the Street Intersection.



Try a few more Street Intersections:

15<sup>th</sup> AVE & VAN BUREN

7<sup>TH</sup> AVE & CAMELBACK

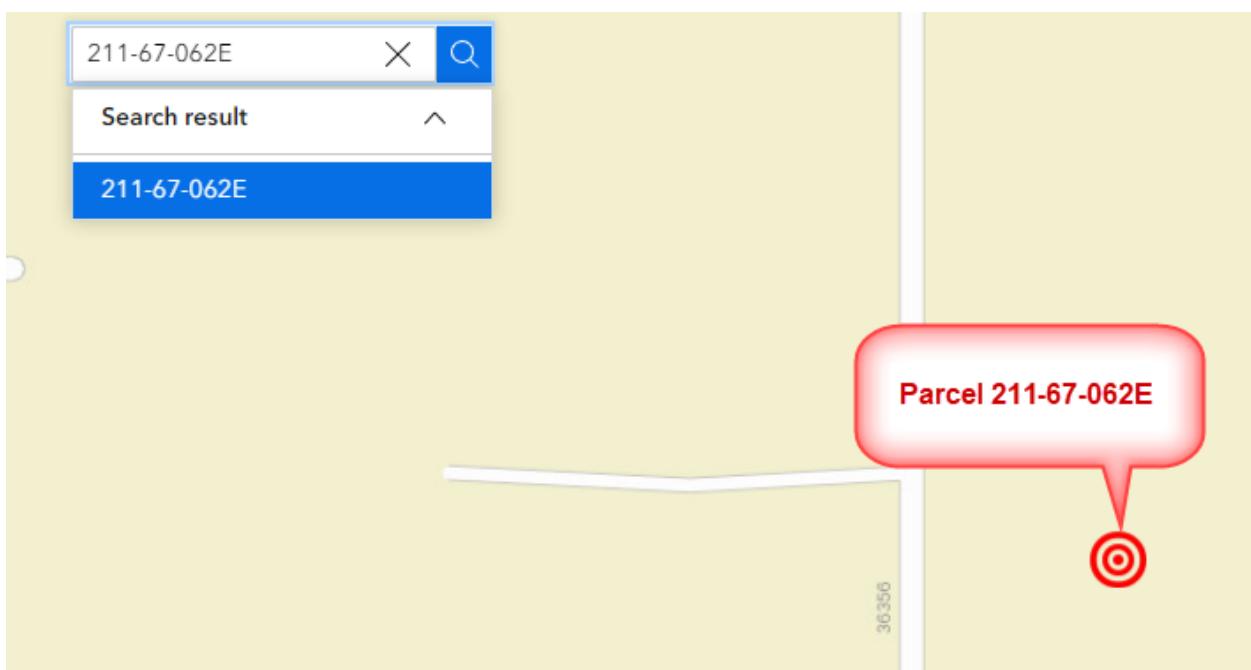
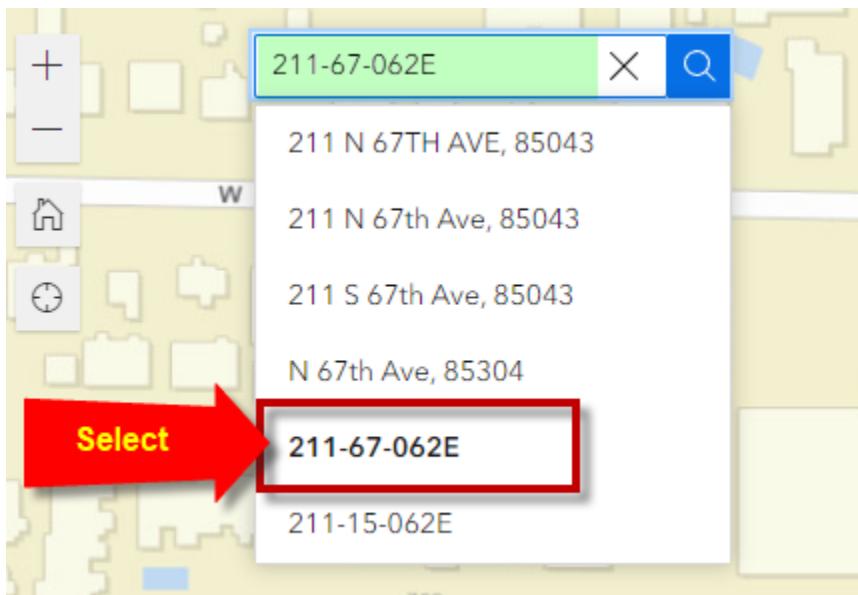
INDIAN SCHOOL & CENTRAL

There is yet another powerful feature hidden within this Search Tool.

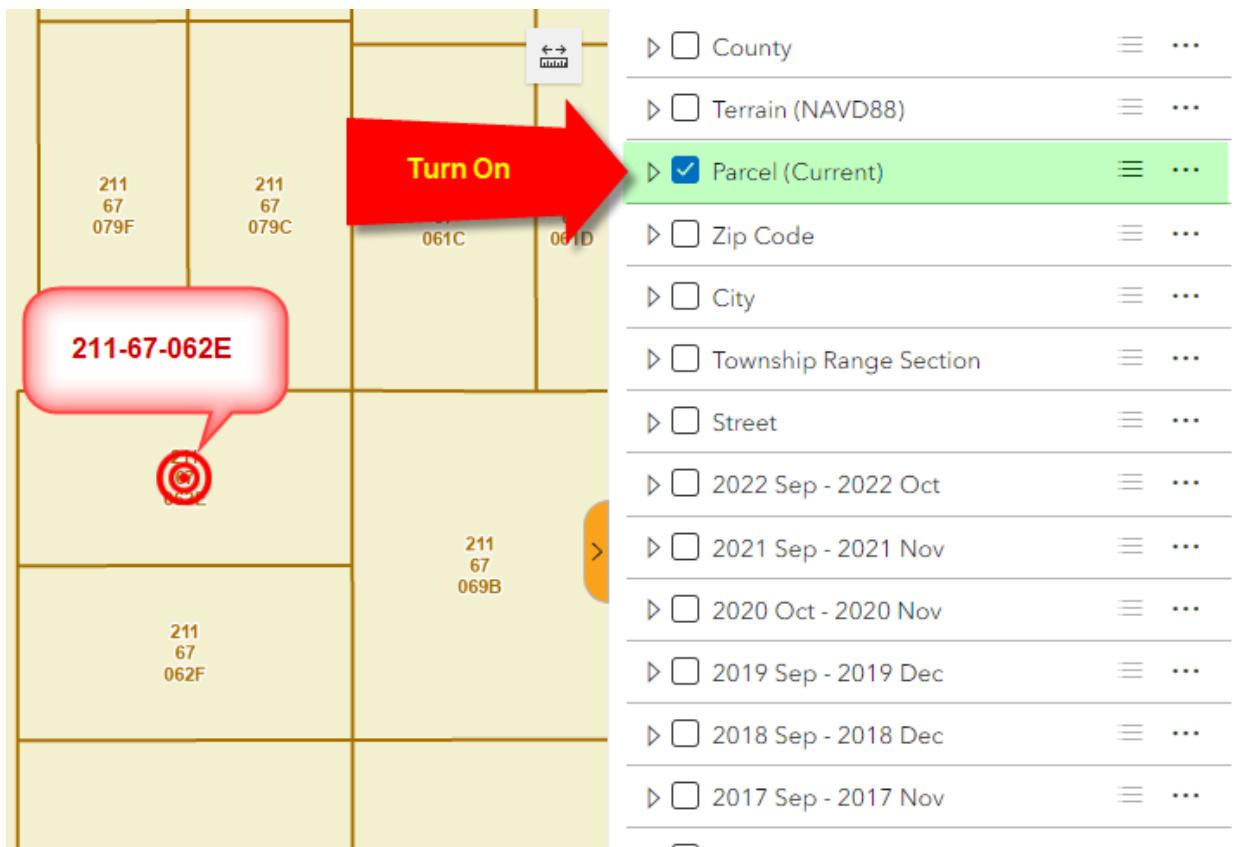
You can instantly zoom to any Parcel in Maricopa County if you have the correct Parcel Number.

Example:

211-67-062E



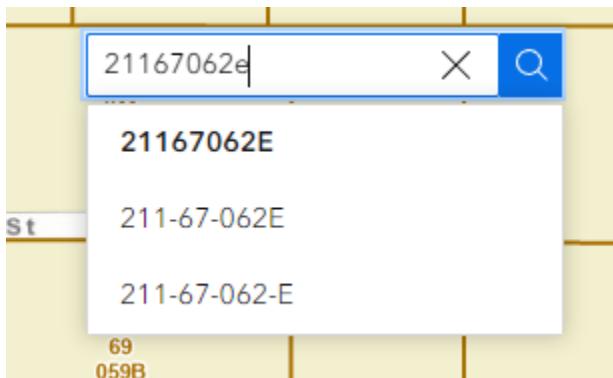
Turn on the Parcel Layer to see the Parcel Boundaries and Parcel Numbers.



You may enter the Parcel Number in any format, with or without dashes.

211-67-062E  
211-67-062-E  
21167062E  
21167062e

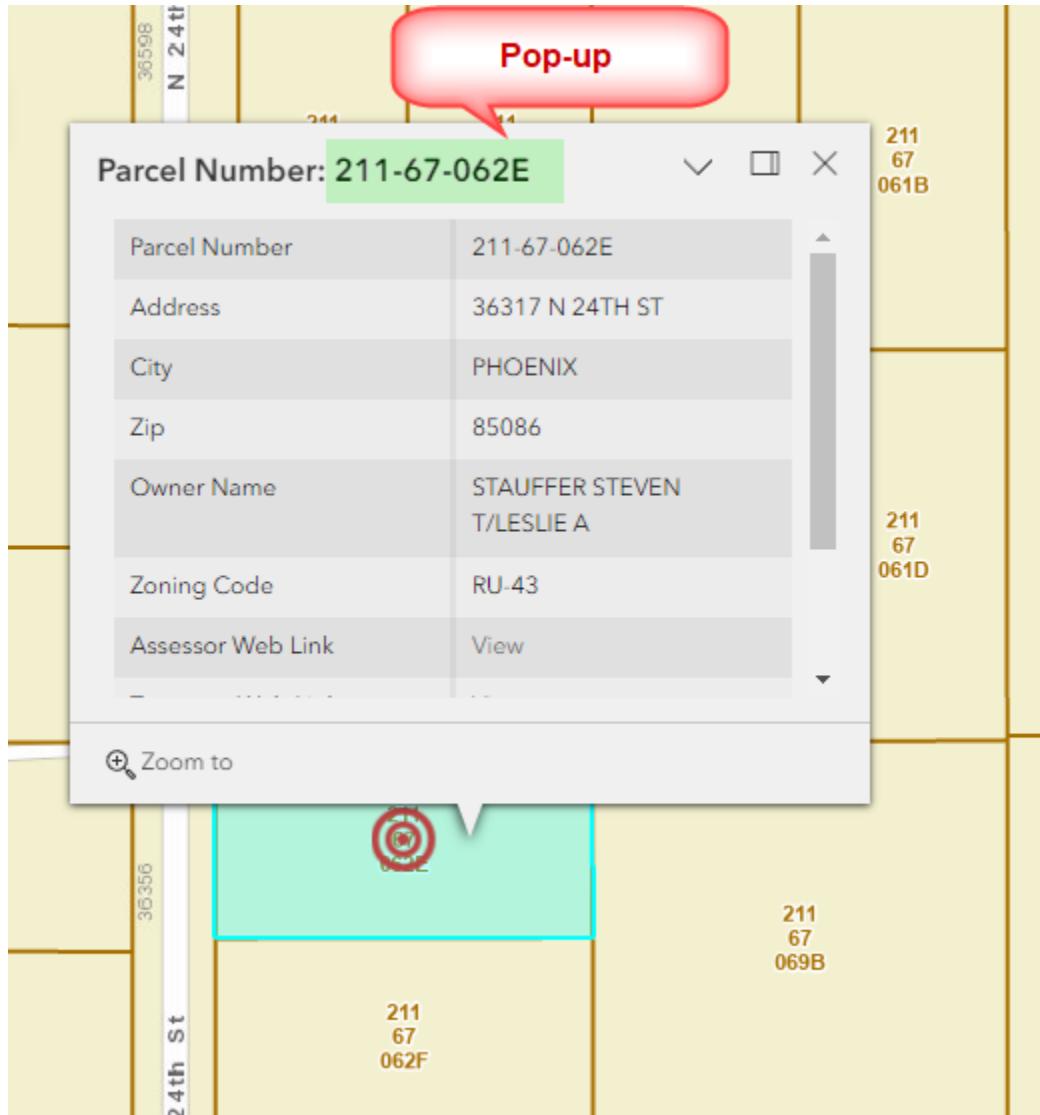
The Search Tool will be able to parse all of them.



## Identify a Parcel

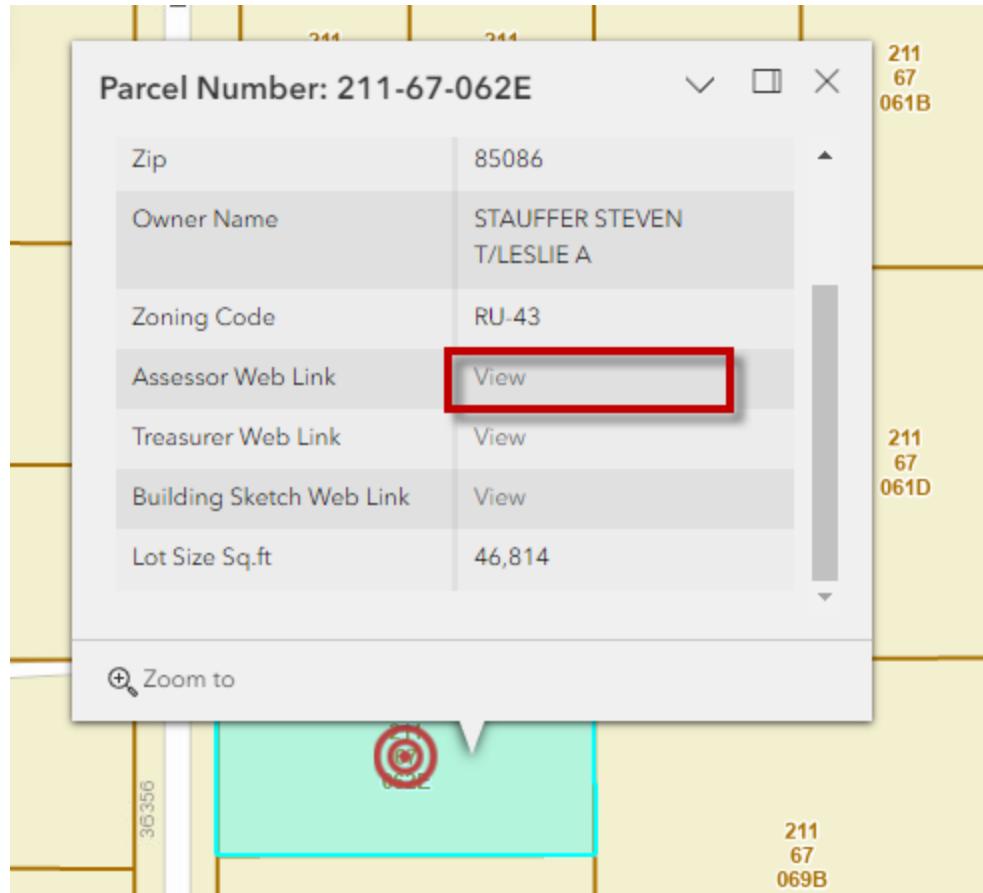
With the Parcel Layer turned on, click on any parcel.

A pop-up window will appear showing the Parcel Attributes.



Scroll down to view the Web Links associated with this Parcel.

View the Assessor Web Link



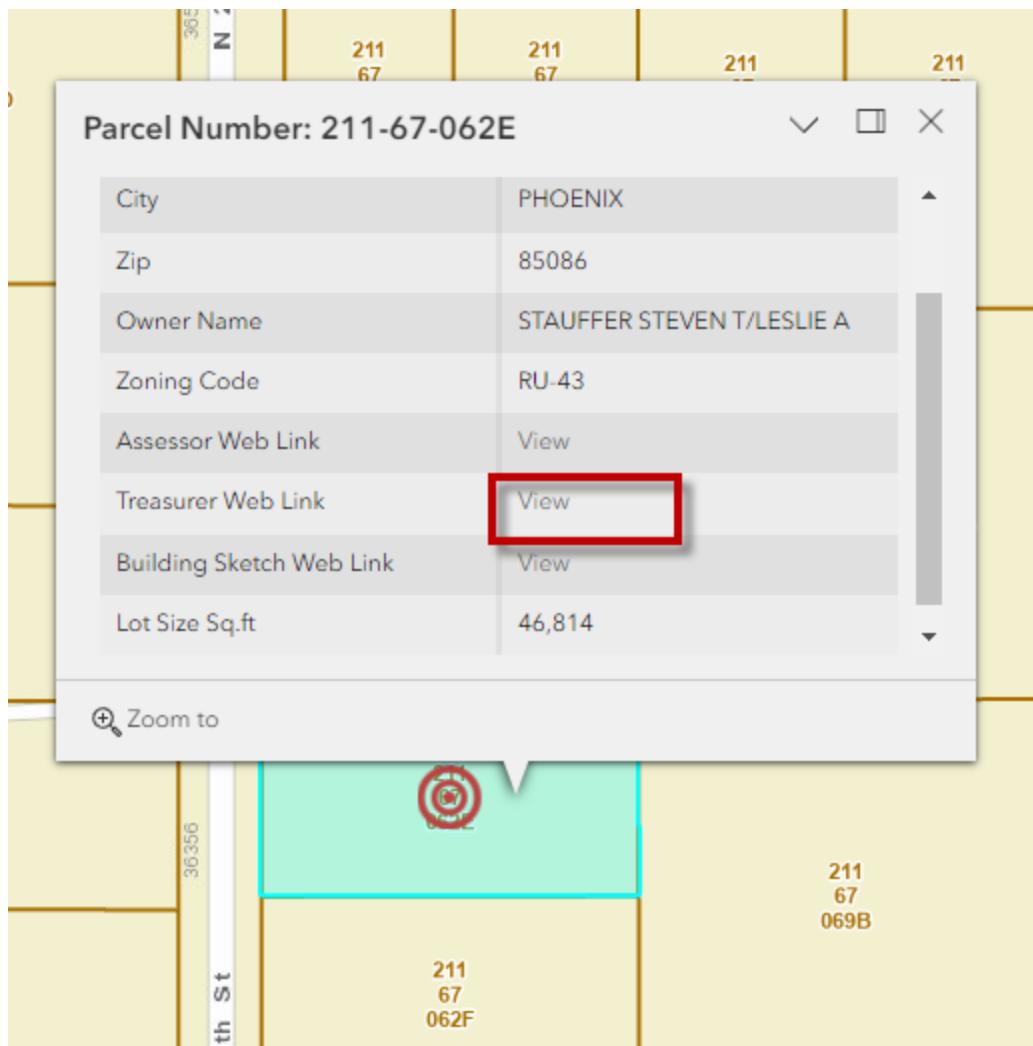
This opens the Maricopa County Assessor's Page.

<https://mcassessor.maricopa.gov/mcs/?q=21167062E>

The screenshot shows the Maricopa County Assessor's website. At the top, there is a navigation bar with links for "OUR OFFICE", "MAPS", "DEPARTMENTS", and "FORMS". Below the navigation is a header featuring the Maricopa County seal, a portrait of Eddie Cook, the Maricopa County Assessor, and a search bar. The main content area displays a residential parcel detail for lot number 211-67-062E. The parcel is located at 36317 N 24TH ST PHOENIX 85086. The current owner is STAUFFER STEVEN T/LESLIE A. It was last sold on 05/01/2022 for \$890,000. Its current year full cash value is \$667,500. Below this information are several buttons for various services: MAPS, PICTOMETRY, VIEW/PAY TAX BILL, DEED, OWNER, VALUATIONS, ADDITIONAL INFO, SKETCHES, MAP FERRET, REGISTER RENTAL, and PRINT DETAILS. A "PROPERTY INFORMATION" section provides detailed property data, including the address, MCR #, Description, Lat/Long, and Lot Size.

MCR #	
Description	N2 N2 LOT 21 SEC 35 EX ROW P/D 3246-03 AND BLM PATENT #1207475
Lat/Long	
Lot Size	46,814 sq ft.

View the Treasurer Web Link



This opens the Maricopa County Treasurer's Page.

<https://treasurer.maricopa.gov/parcel/Summary.aspx>

The screenshot shows the Maricopa County Treasurer's Office website. At the top, there is a banner featuring the Maricopa County seal and a large group photo of staff members. To the right of the photo, the name "John M. Allen, Treasurer" is displayed. A red speech bubble highlights the parcel number "211-67-062E". Below the banner, there is a navigation bar with links: "Treasurer Home", "View Your Tax Bill", "Tax Information", "Update Address", and "Pay Online".

**Parcel Search**

Parcel #  -  -   
 ?  
**Search**

Not sure what your parcel number is?  
[Click here to search.](#)

**Tax Summary 211-67-062E**

**Current Mailing Name & Address**  
STAUFFER STEVEN T/LESLIE A  
36317 N 24TH ST  
PHOENIX, AZ 85086

**Property (Situs) Address**  
36317 N 24TH ST  
PHOENIX, AZ 85086

**2022 Tax Due**

Assessed Tax:	\$3,177.04	Tax Paid:	\$3,177.04	Total Due:	\$0.00
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[View 2022 Tax Details](#)  
[Create a payment coupon](#)

[View Additional Tax Years](#)

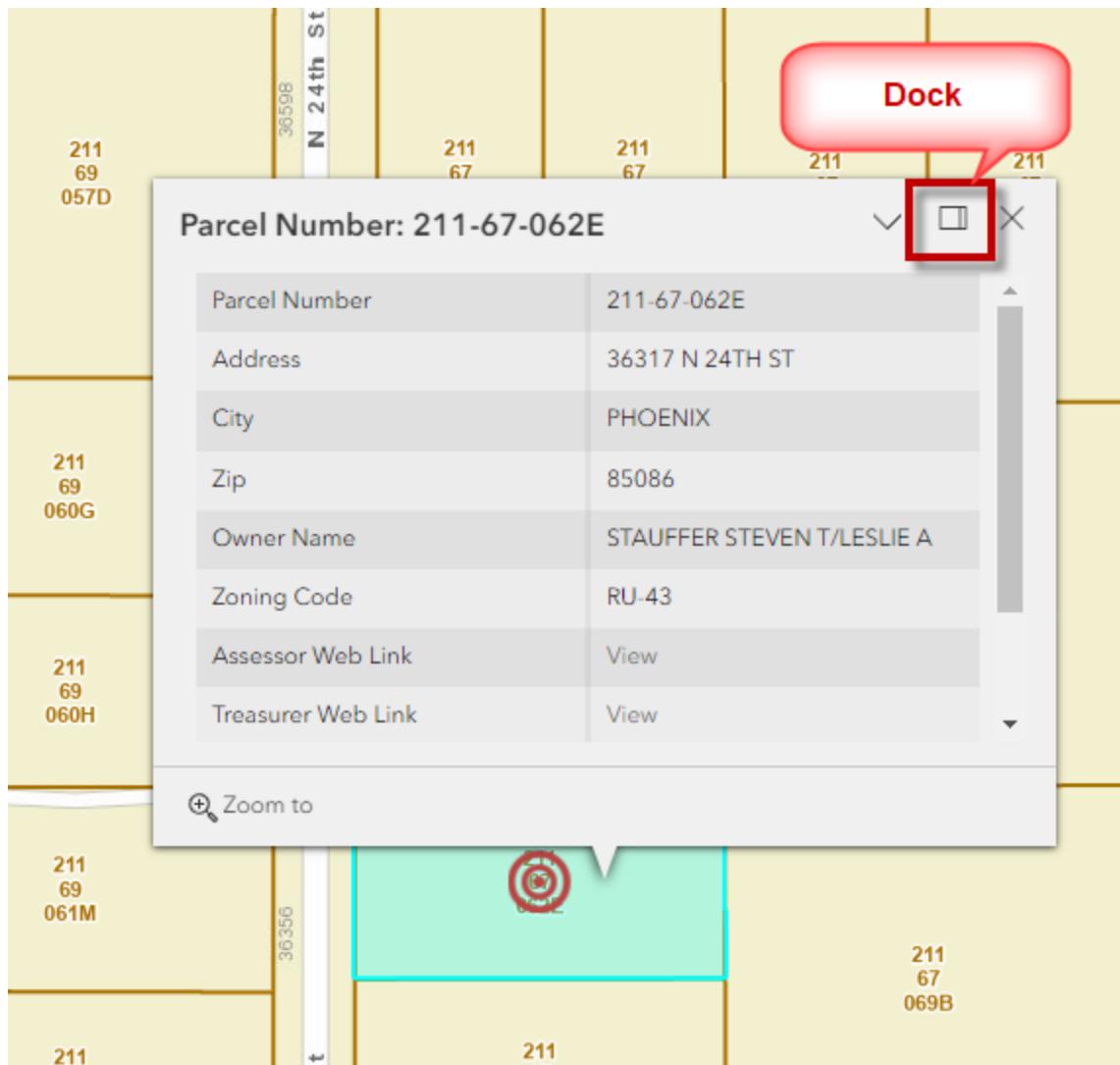
**Total Amount Due**

Total Amount Due: **\$0.00**

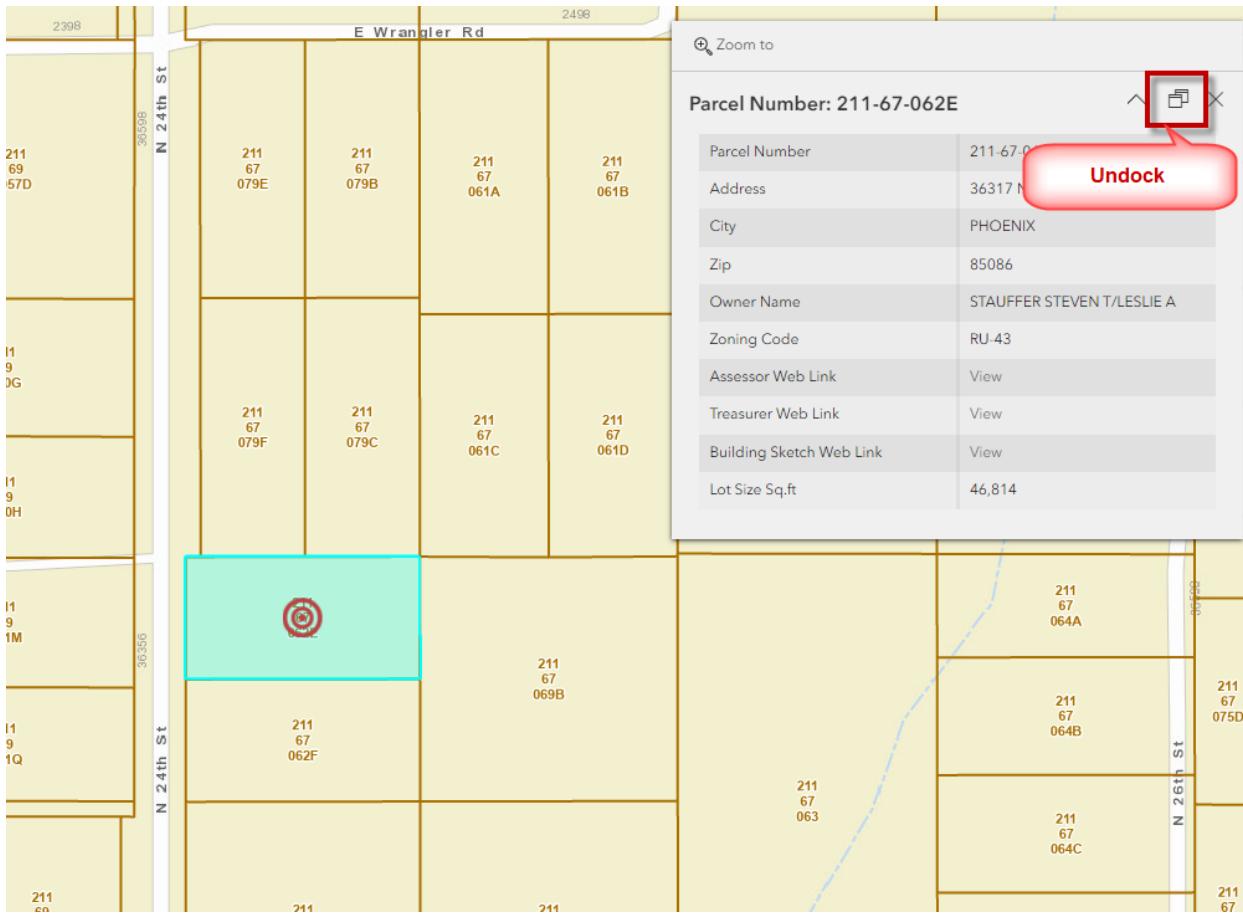
Total amount due does not reflect any pending payments. Amount may change based on activity to this parcel.  
**NOTE:** Your property may be subject to additional tax liens listed under previous parcel numbers.

Notice that the pop-up window is partially blocking the view of the Parcel.

Click on the **Dock Icon**.

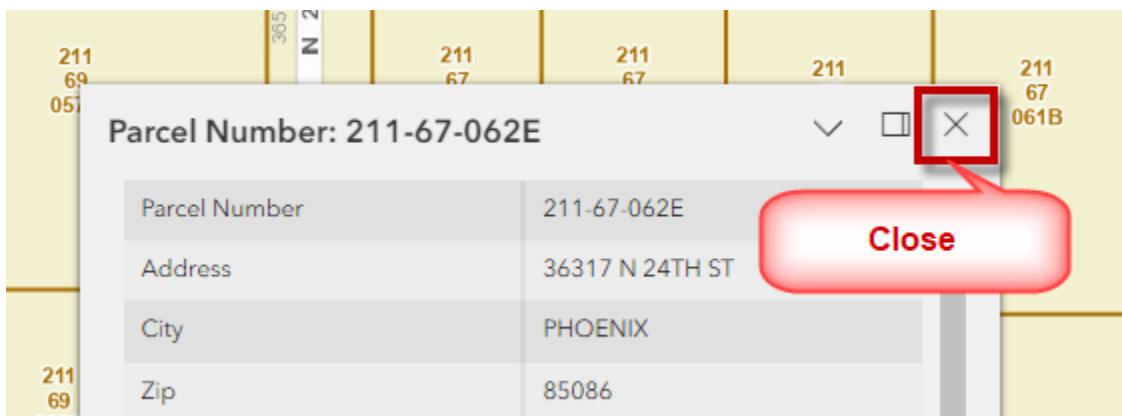


This moves the Pop-up window to the corner.



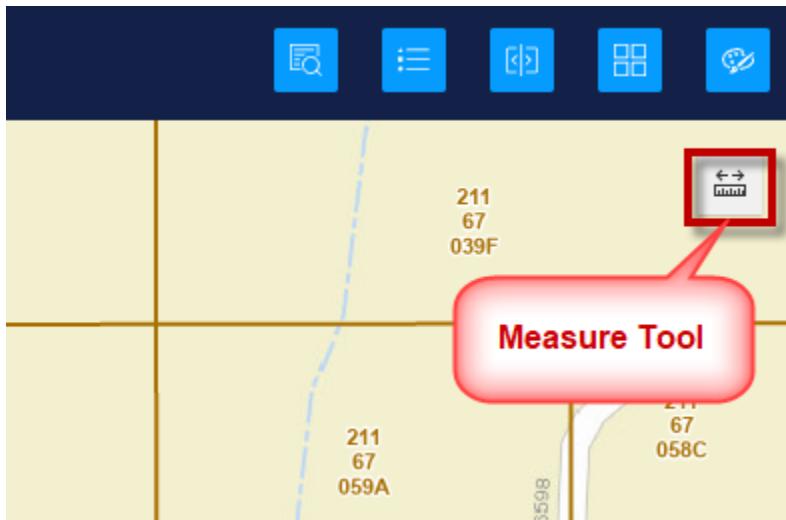
You have the option to undock.

Close the Pop-up



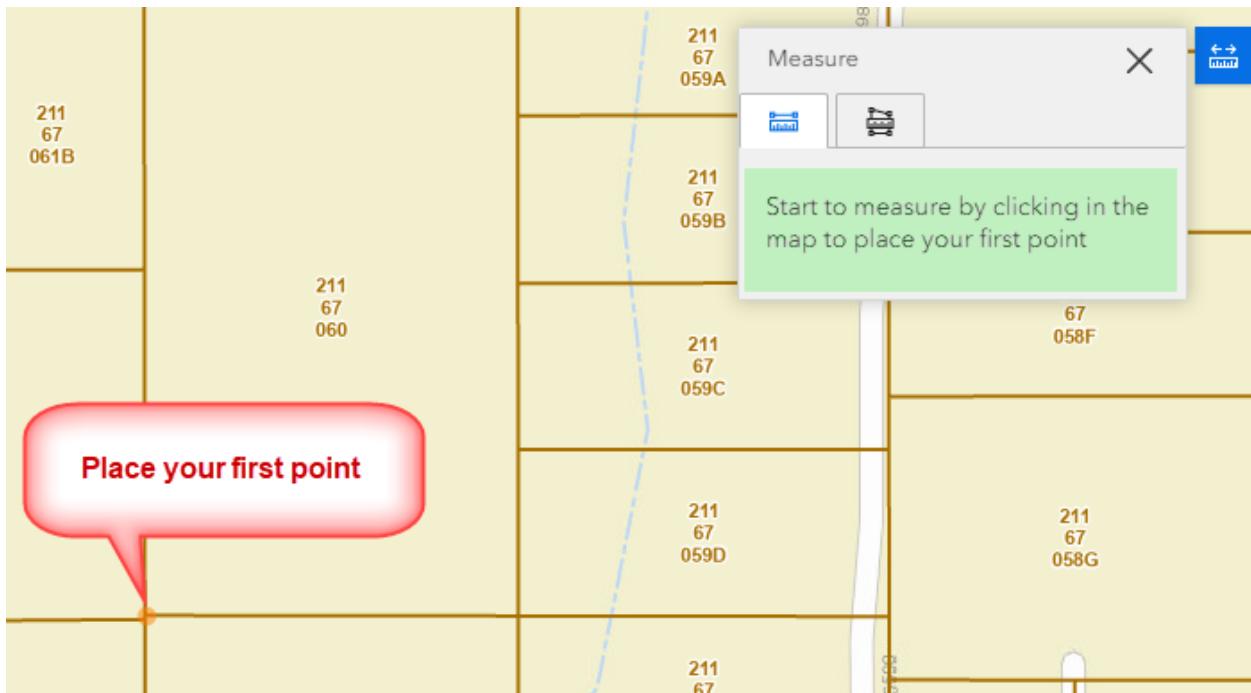
## Measure Tool

Open the **Measure Tool** on the top right of the map.

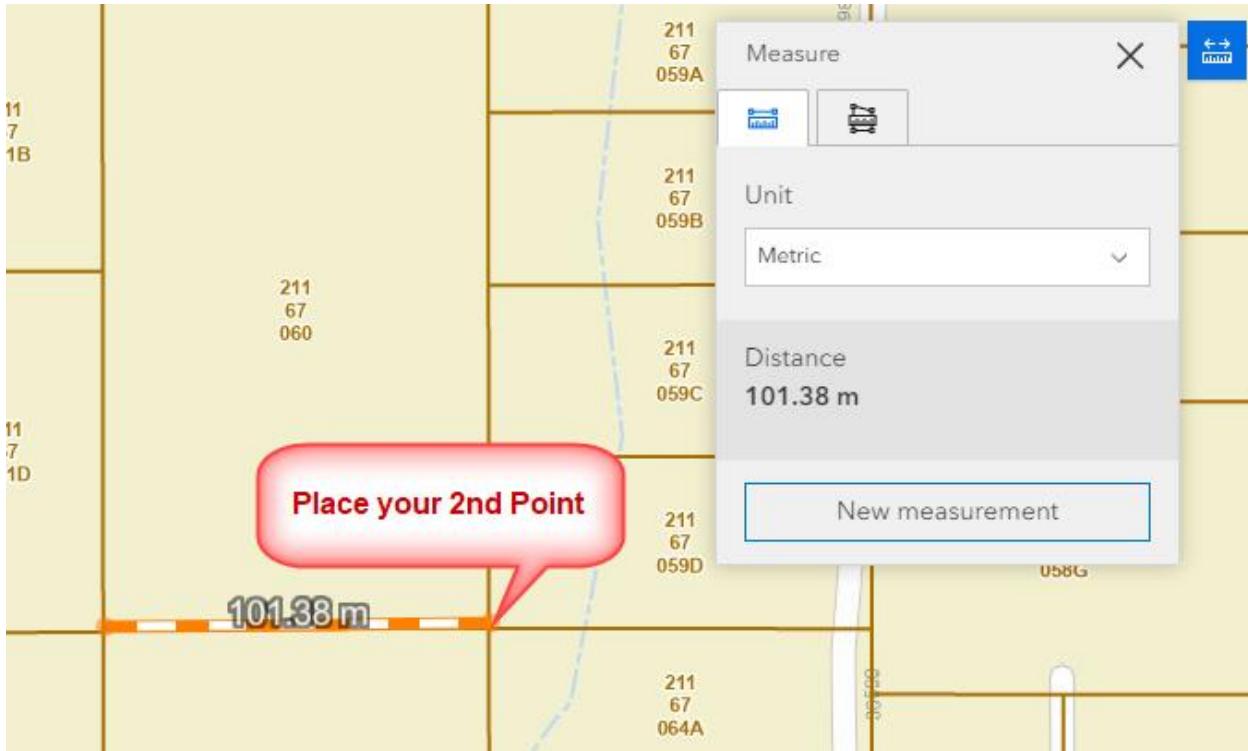


By default, the Measure Tool is ready to measure any length.

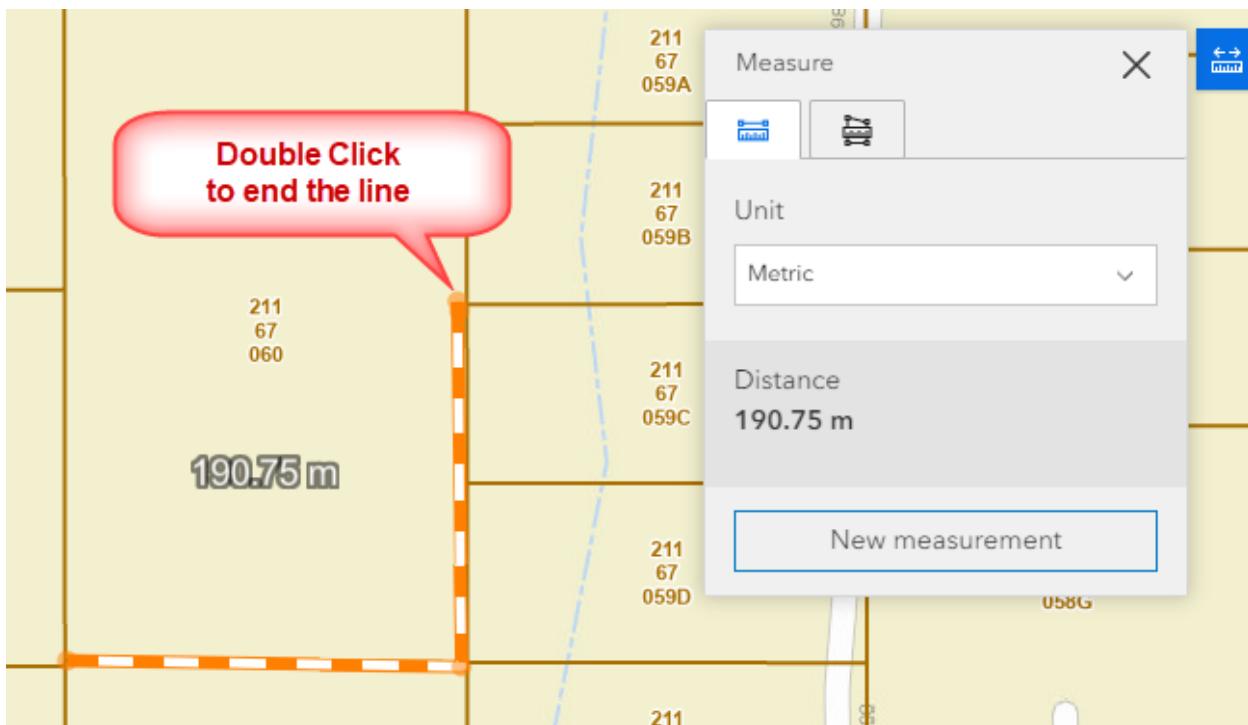
Place your first point on the map by clicking with your mouse.



Move your mouse and click to place the 2<sup>nd</sup> point.



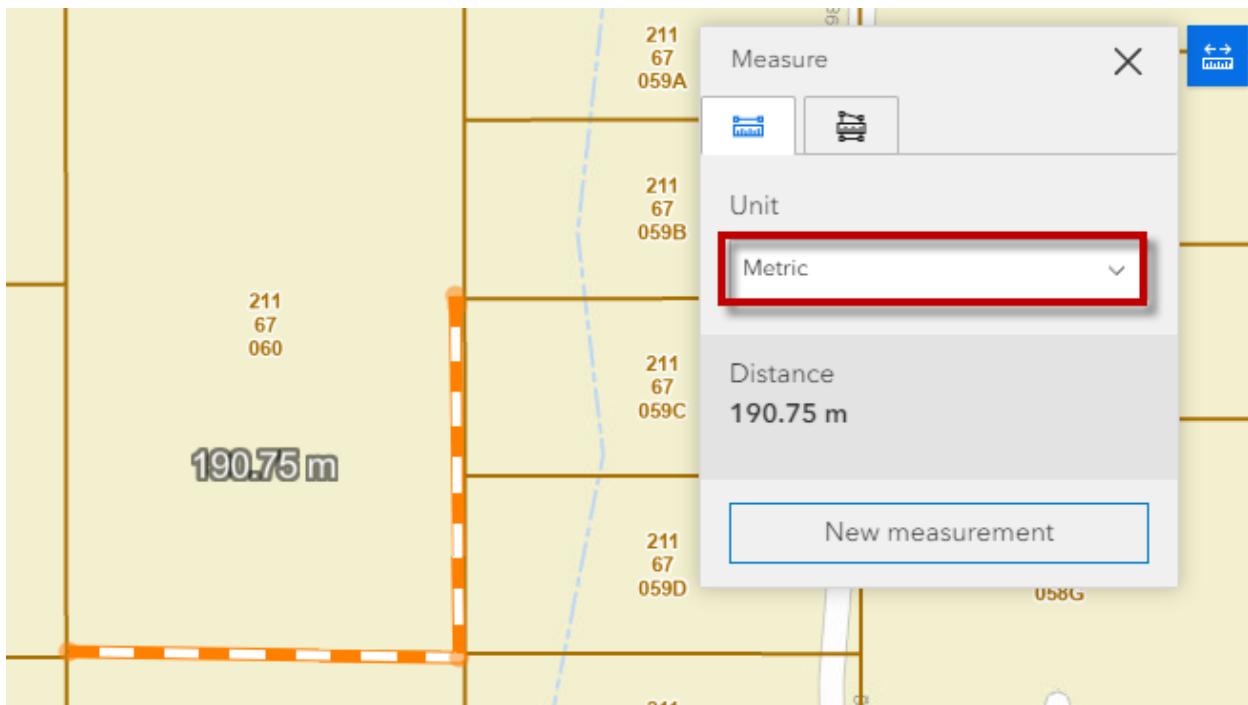
Move your mouse again and **double click** to end the line.



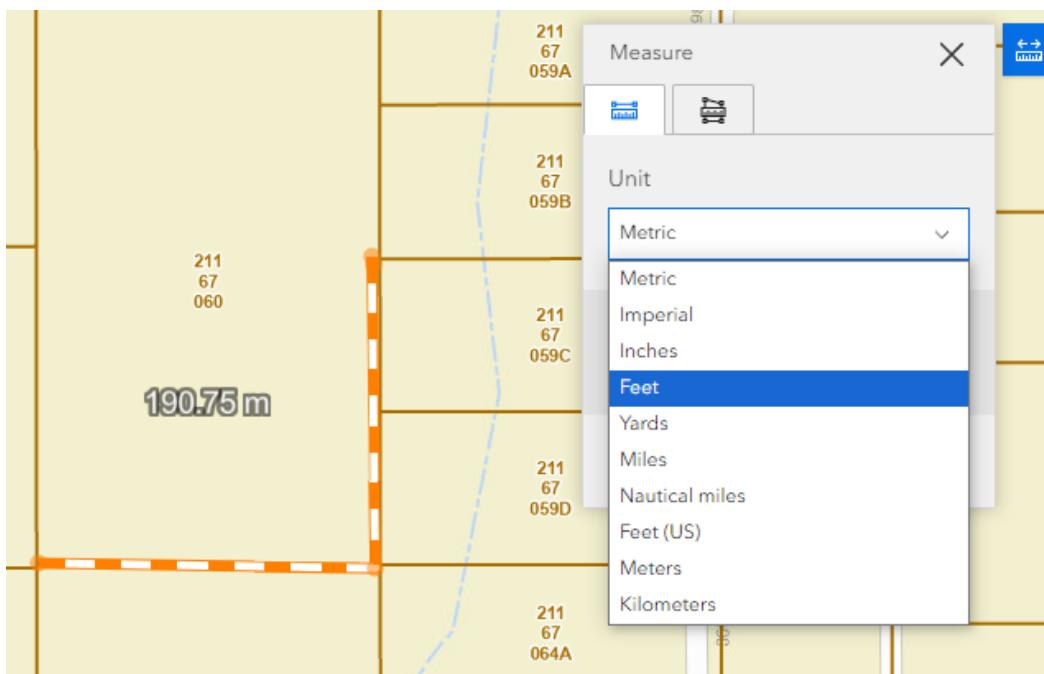
The length of this line is 190.75 meters.

You can change the measurement units.

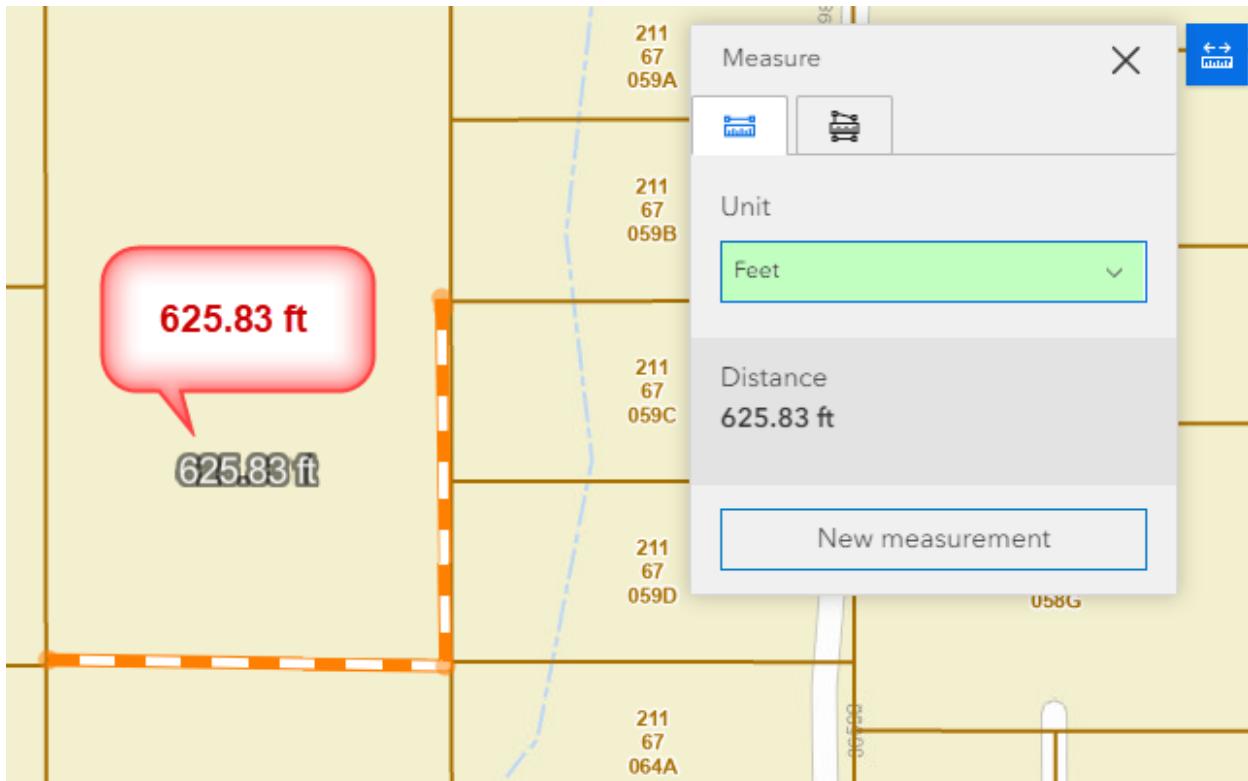
Open the Unit drop-down.



Select Feet



The length of your line is 625.83 ft.

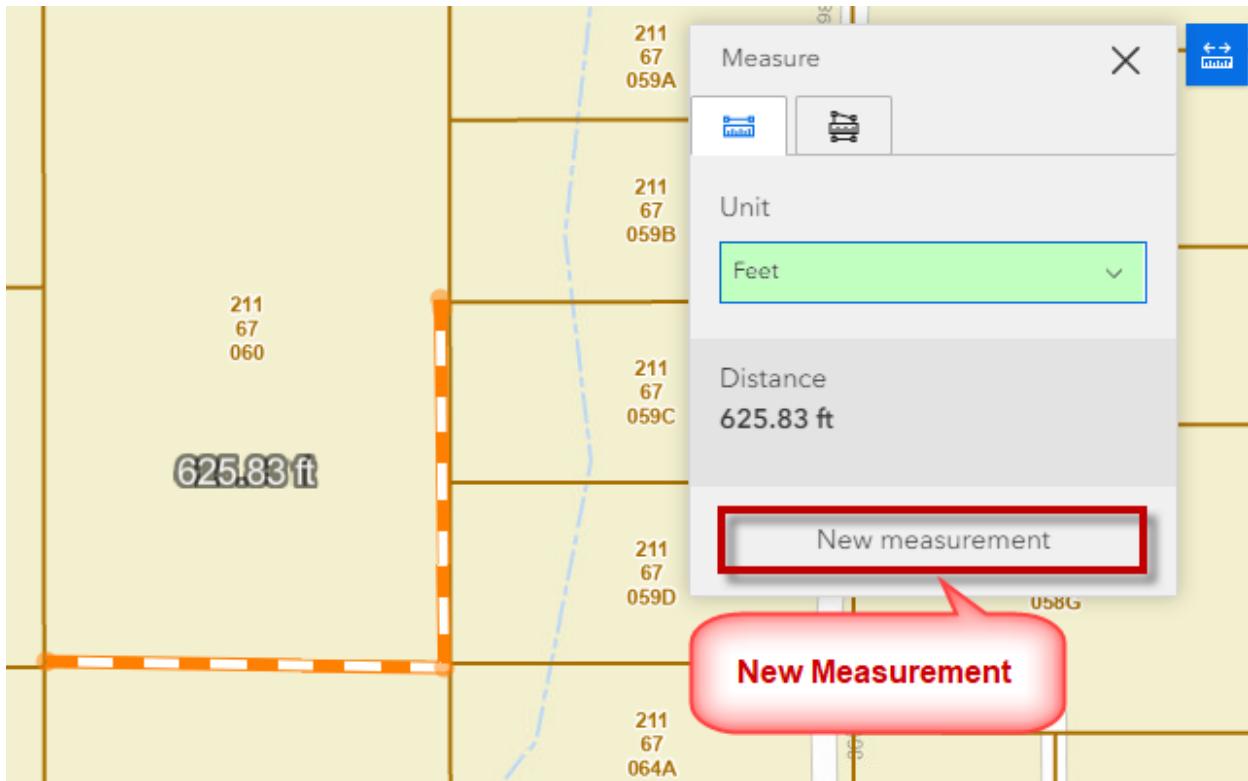


Note:

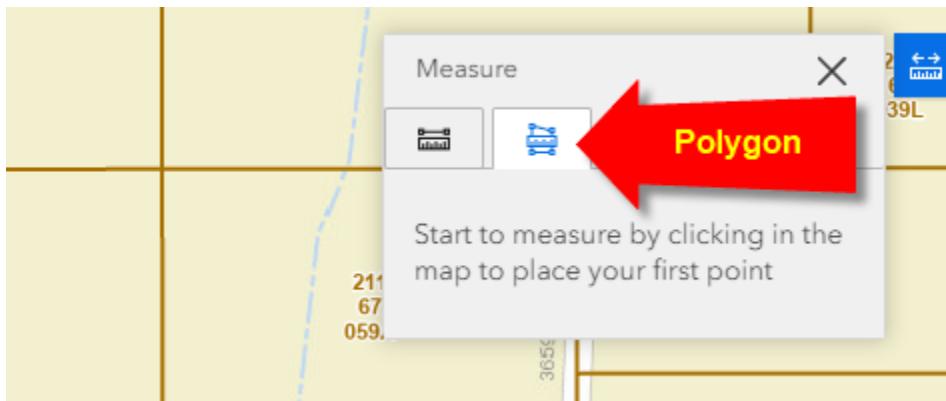
**Feet** represents International Feet based on 1 inch = 2.54 cm exact.

**Feet (US)** represents US Survey Foot = 1200/3937 meters.

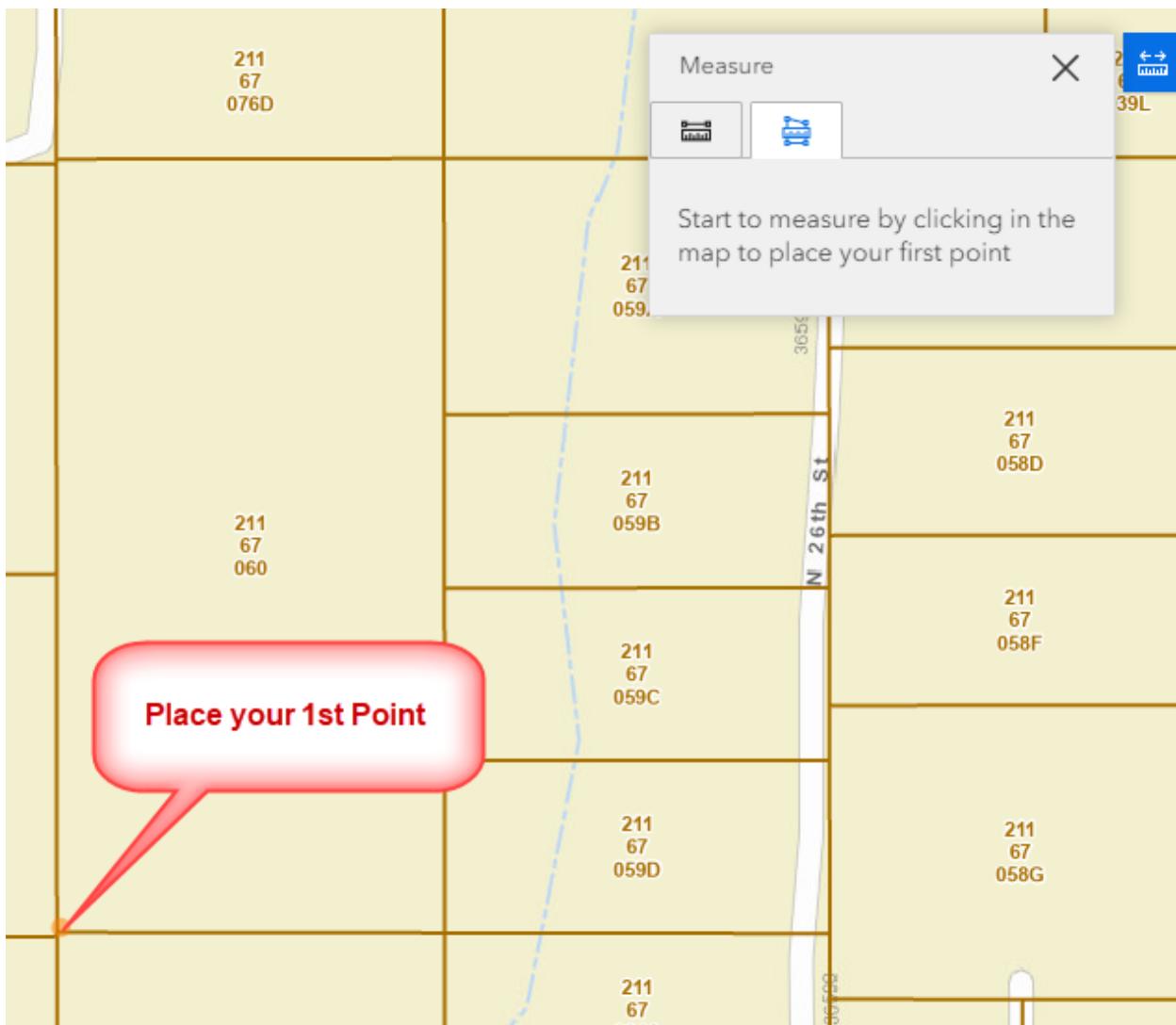
Click on **New measurement** to start a new measurement.



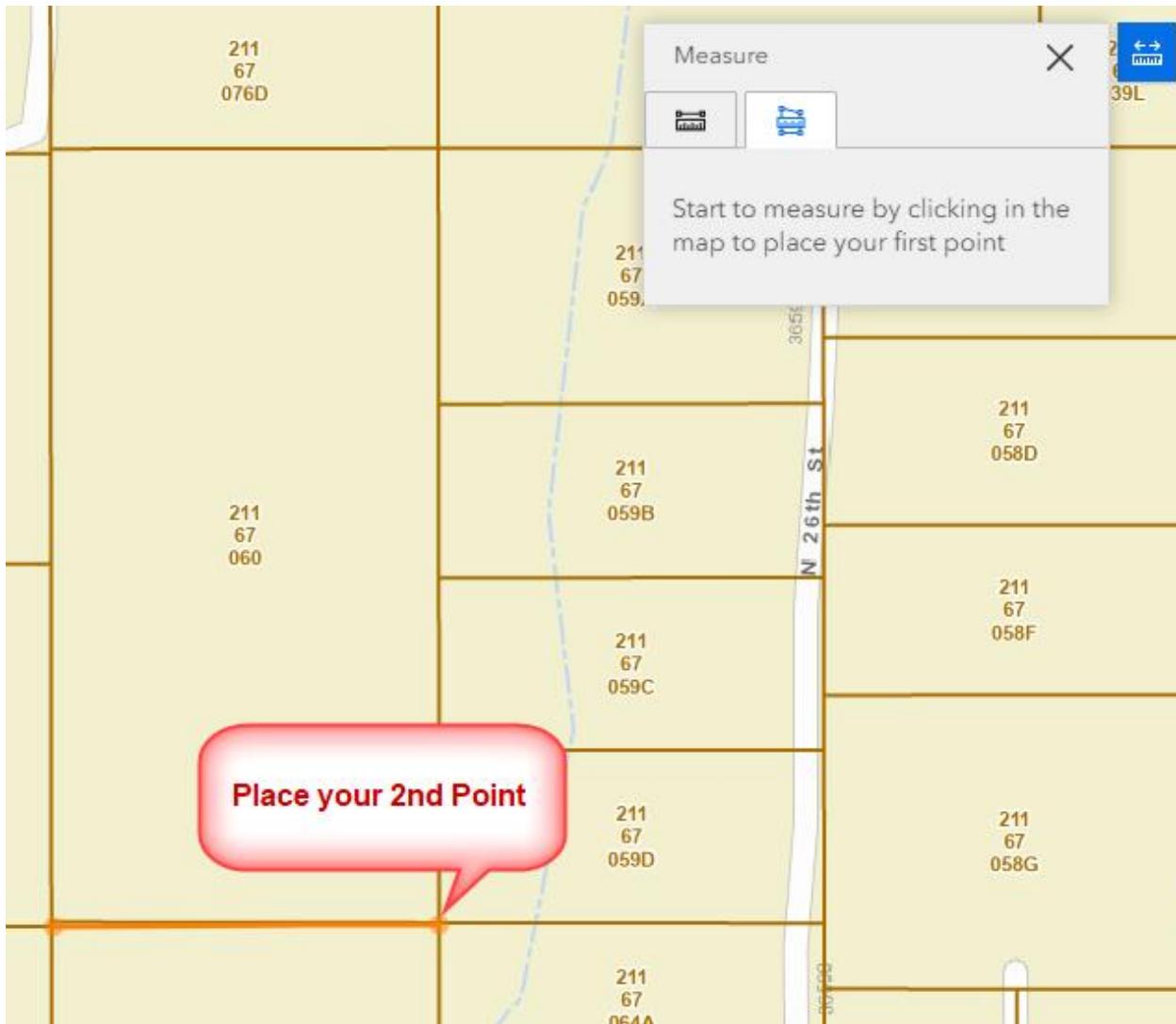
Open the Polygon Tool



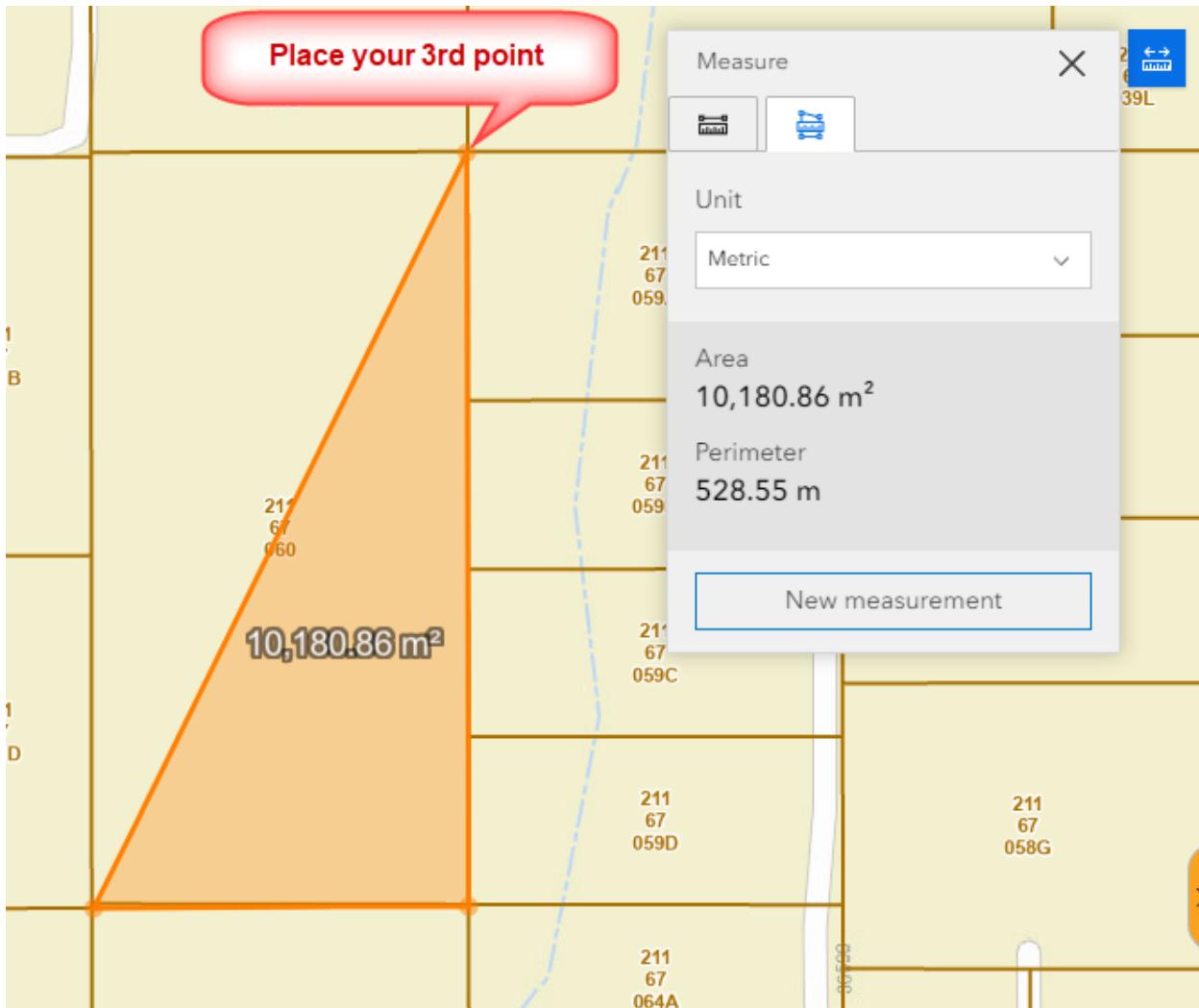
Place your first point on the map.



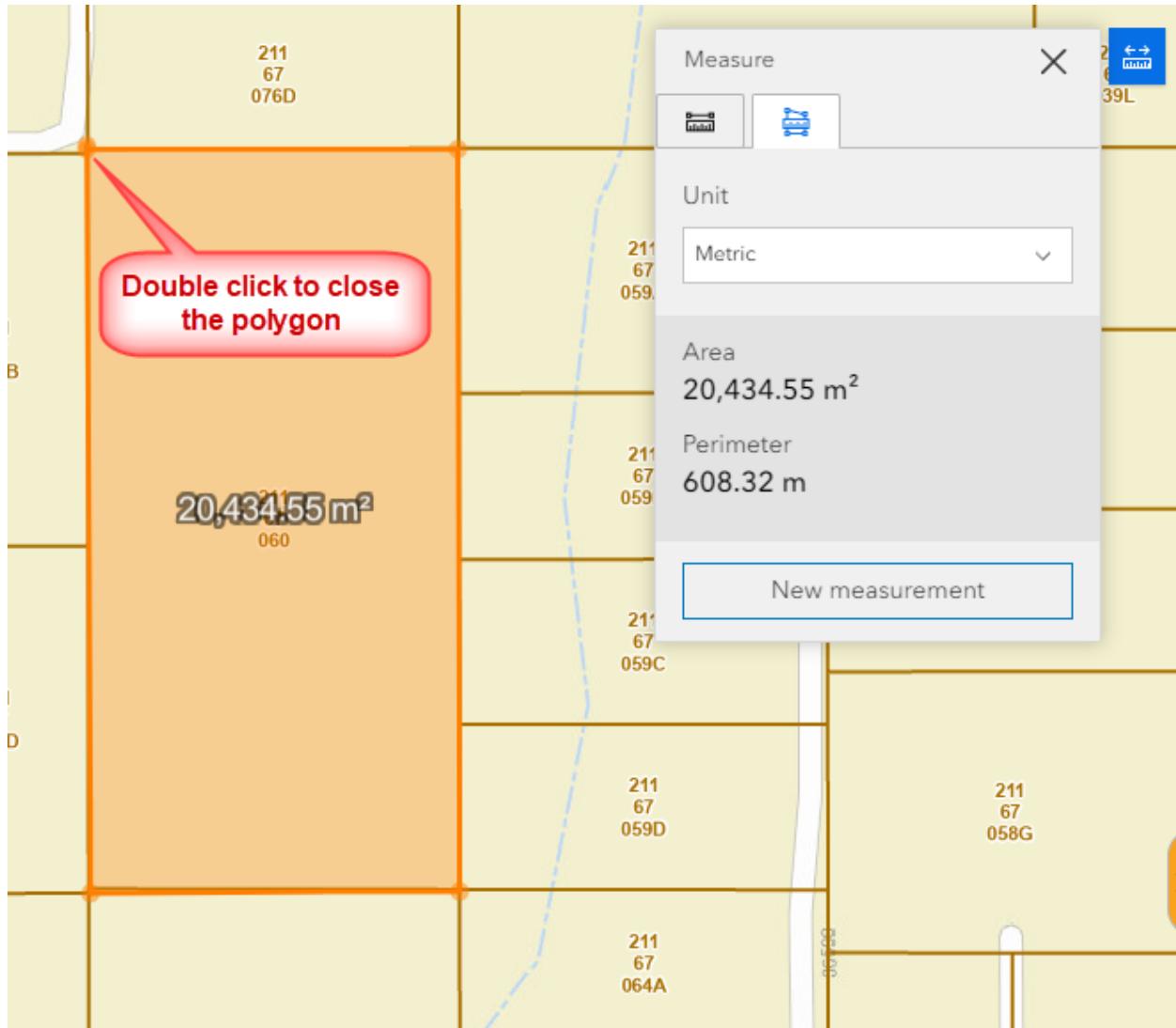
Place your 2<sup>nd</sup> point on the map.



Place your 3<sup>rd</sup> point on the map.

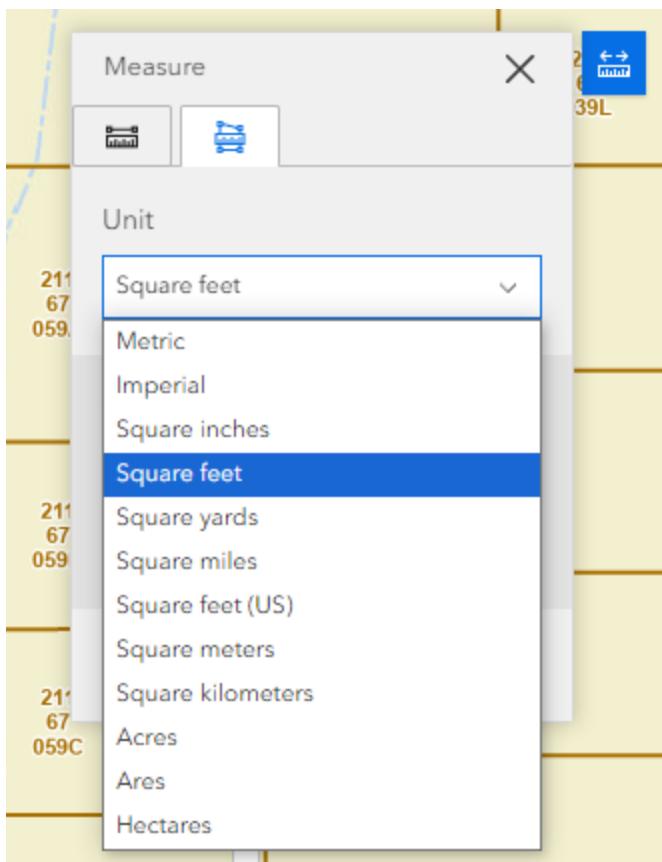


Double Click on the 4<sup>th</sup> point to close the polygon.



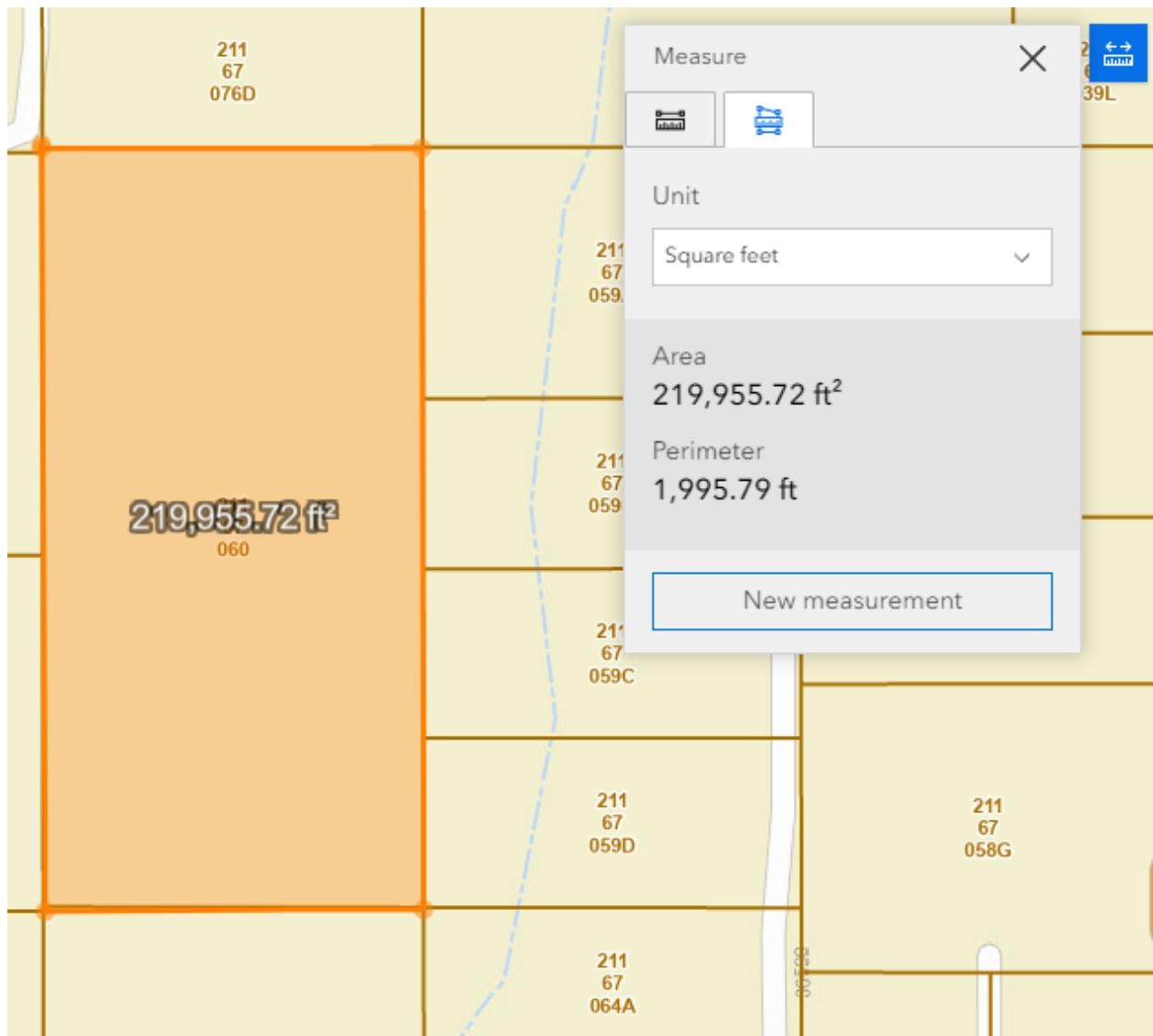
The area and perimeter are reported in square meters and meters by default.

Change the units to Square Feet.

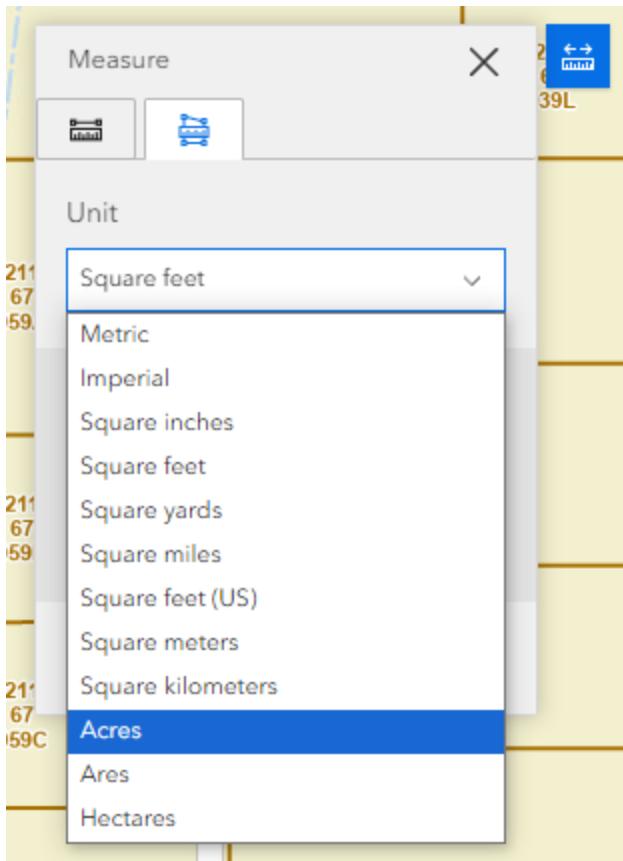


The area of your polygon is 219,955 sq ft.

The perimeter is 1995 ft.

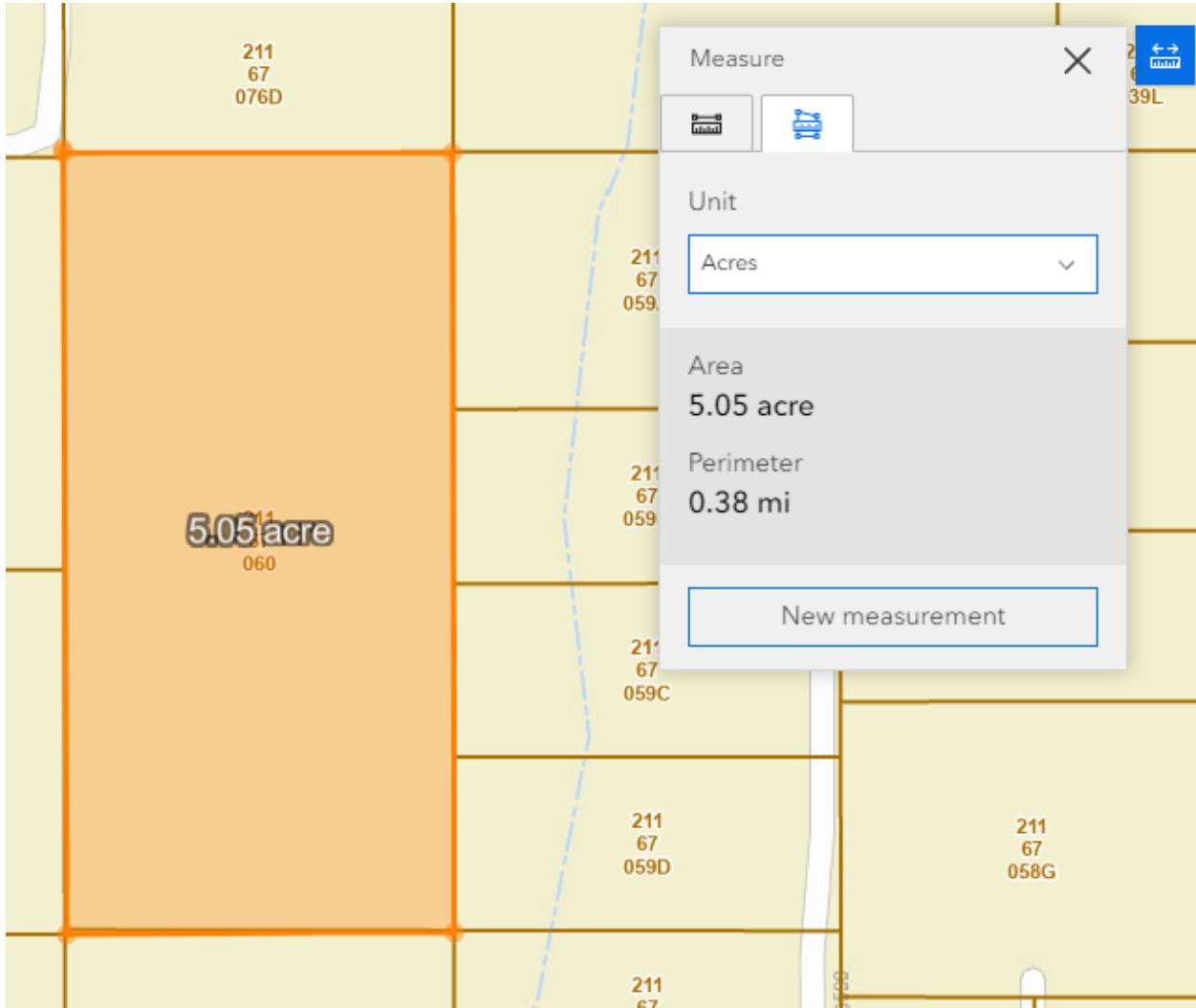


Change the units to Acres.



The area of your polygon is 5.05 acres.

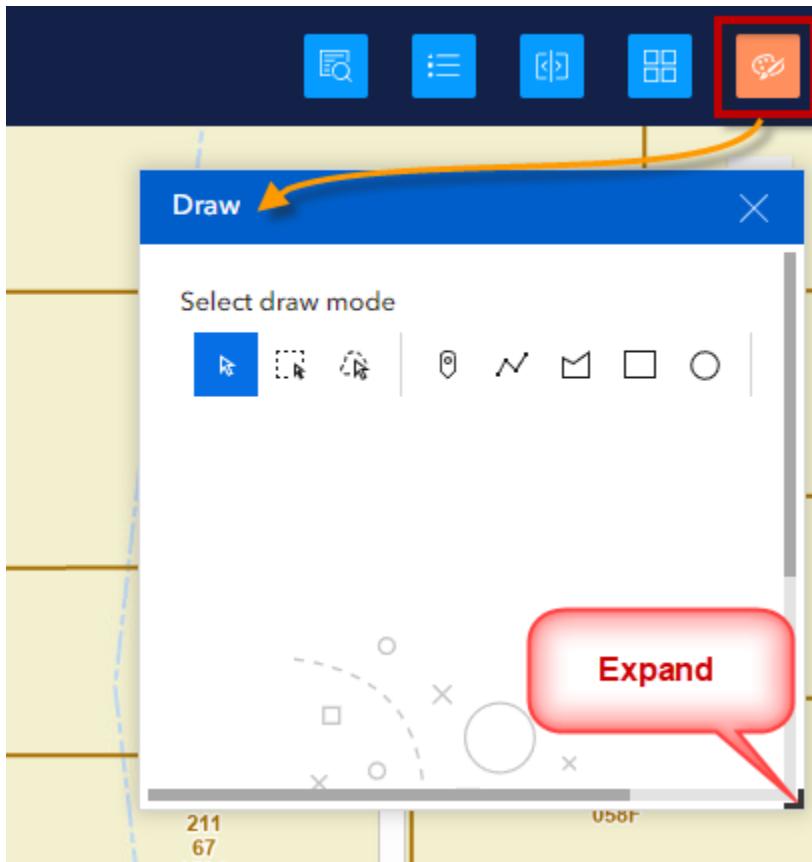
The perimeter is 0.38 miles.



The Measurement Tool provides a handy way to measure lines and polygons and report the measurement in units of your choice.

## Draw Widget

Open the Draw Widget.



Expand the Draw Widget by dragging the handle on the lower right corner.

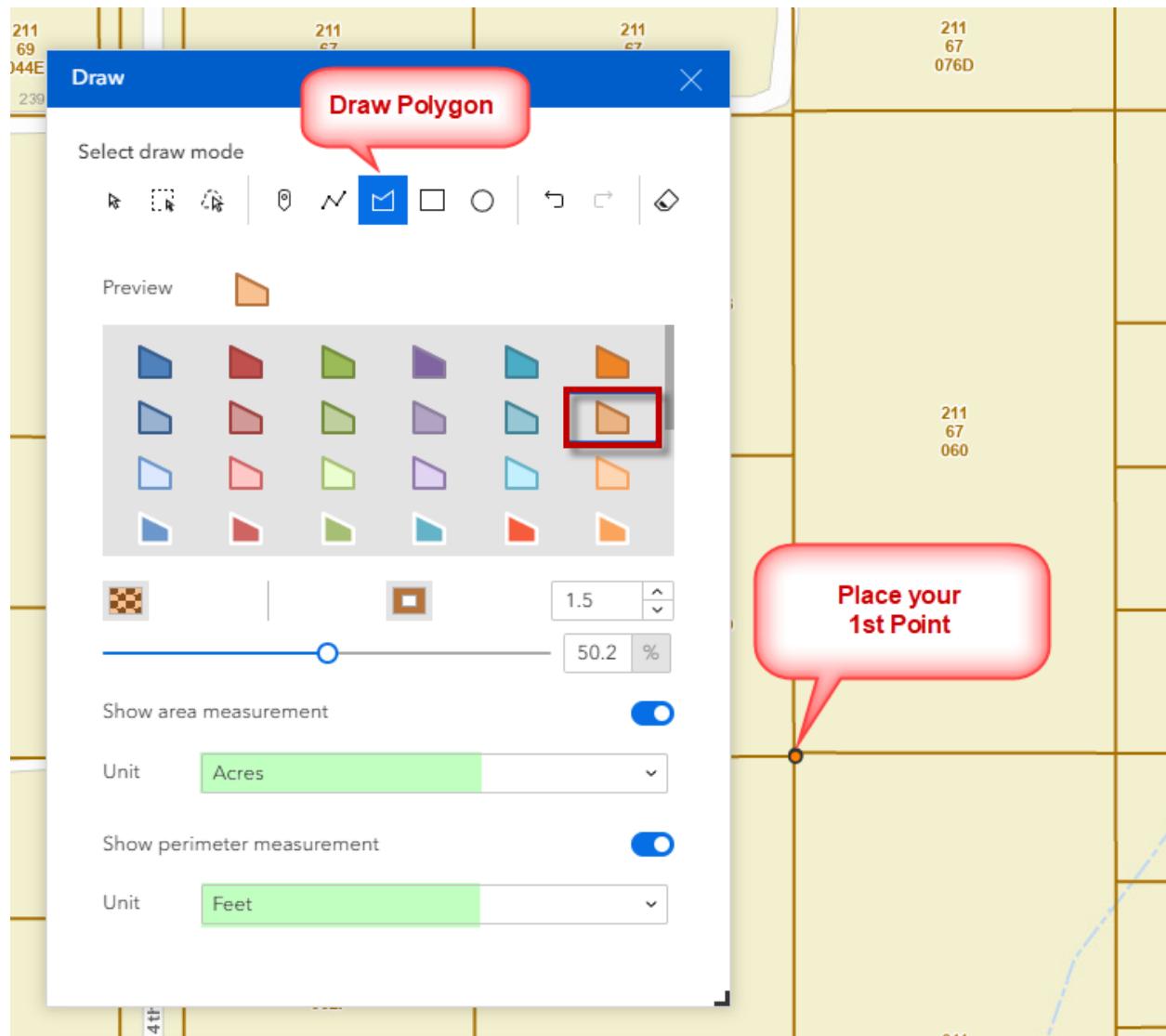
Select a drawing template from the list.

You can modify the Transparency and the Outline Width.

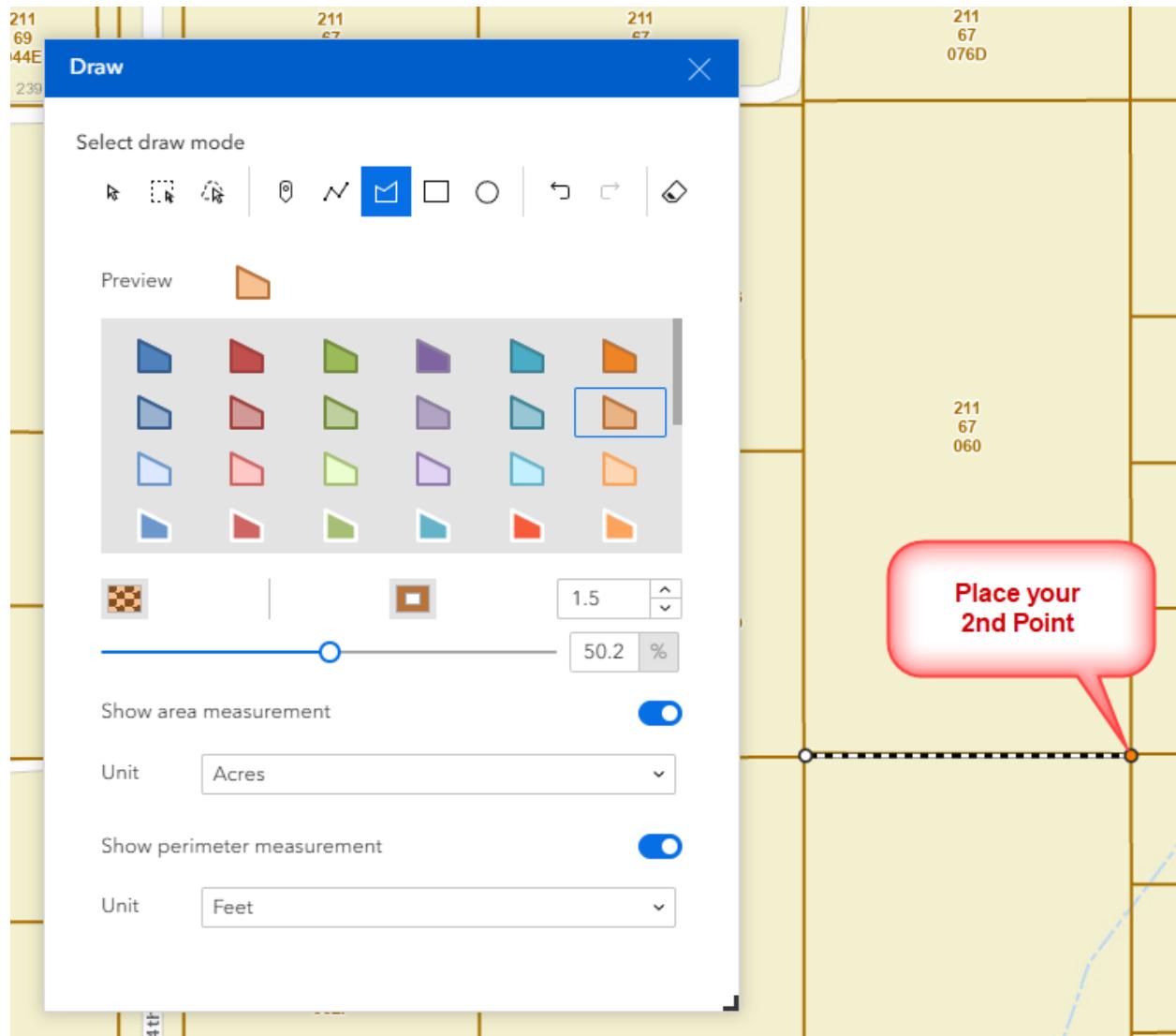
Set your Area Units to **Acres**.

Set your Linear Units to **Feet**.

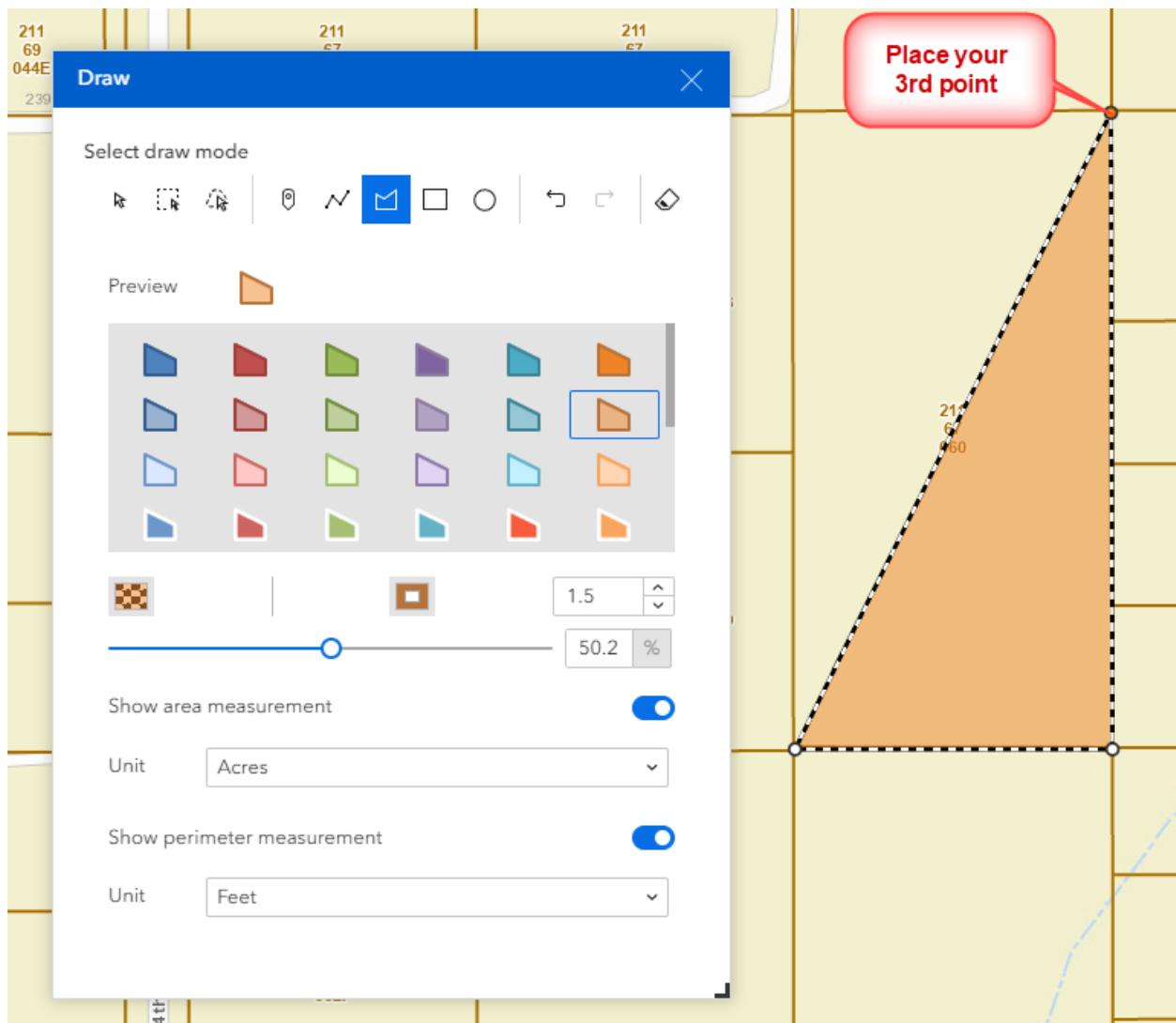
Select the **Draw Polygon Tool** and place your 1<sup>st</sup> point on the map.



Place your 2<sup>nd</sup> point on the Map.



Place your 3<sup>rd</sup> point on the Map.

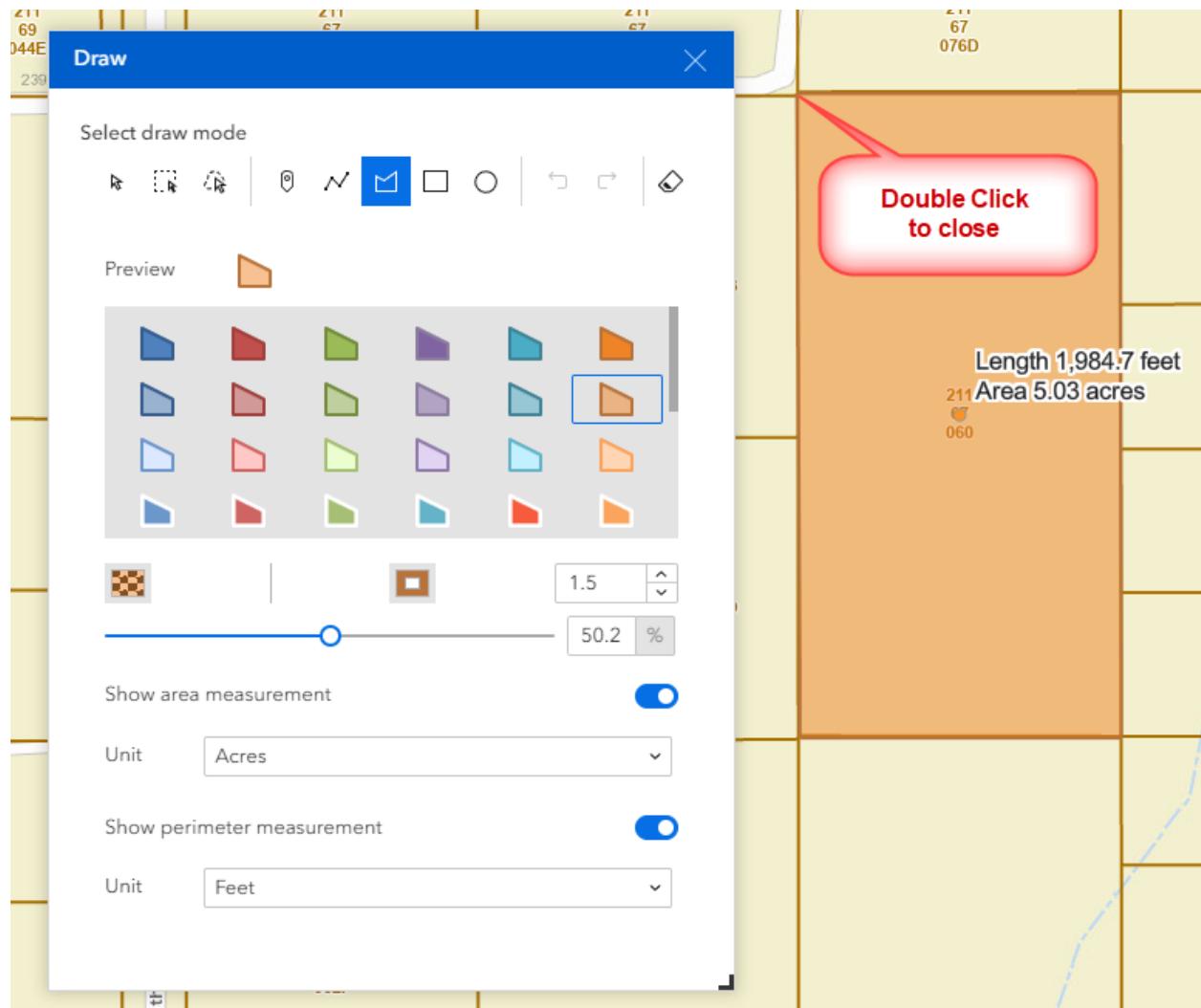


Move your mouse over the 4<sup>th</sup> point.

Double Click to close the polygon.

The **Area** of this polygon is 5.03 Acres.

The **Perimeter** of this polygon is 1984 feet.



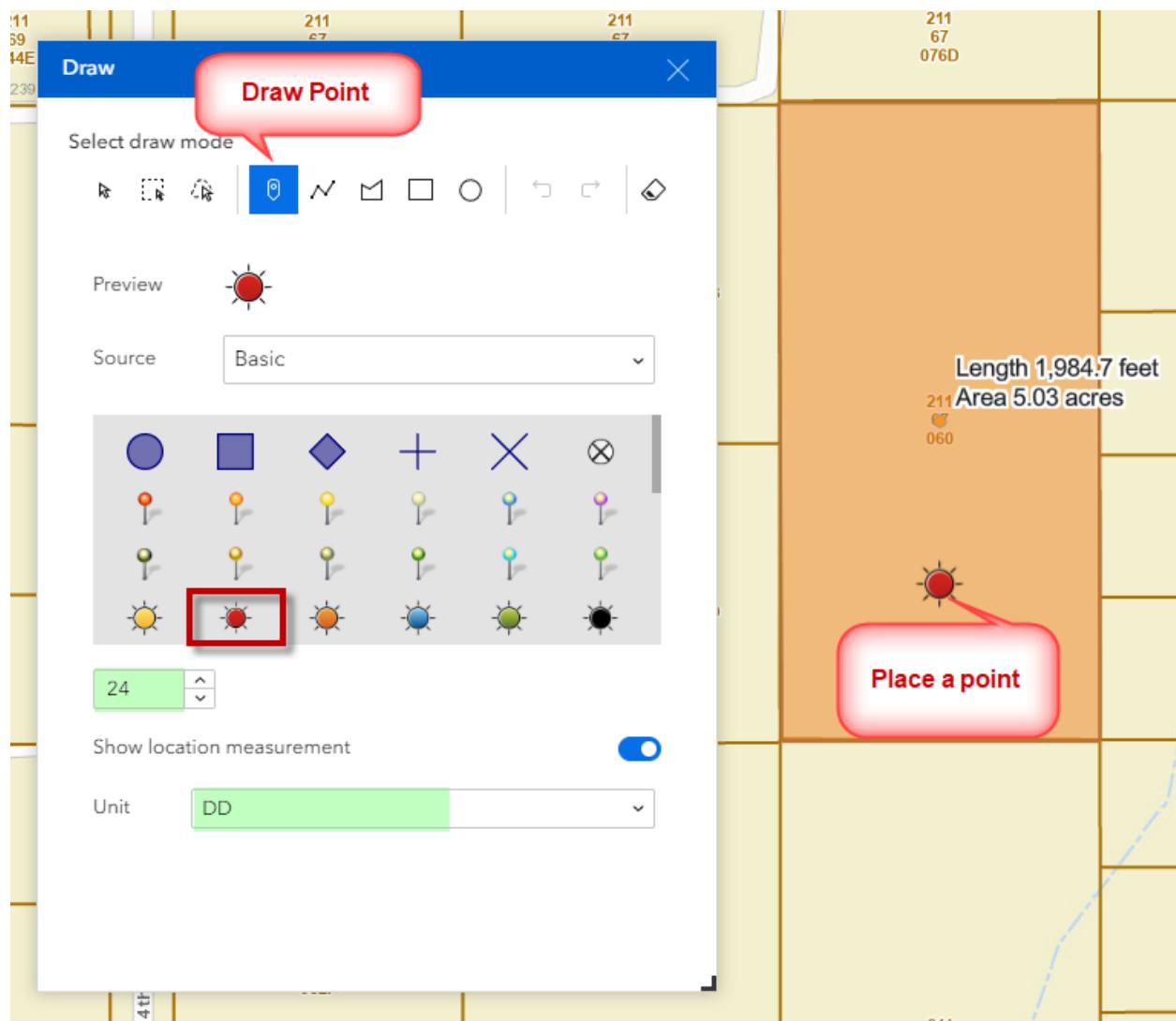
Select the **Draw Point Tool**.

Select a Point Symbol.

Set the size of the point symbol.

Set the Coordinates to Decimal Degrees (DD).

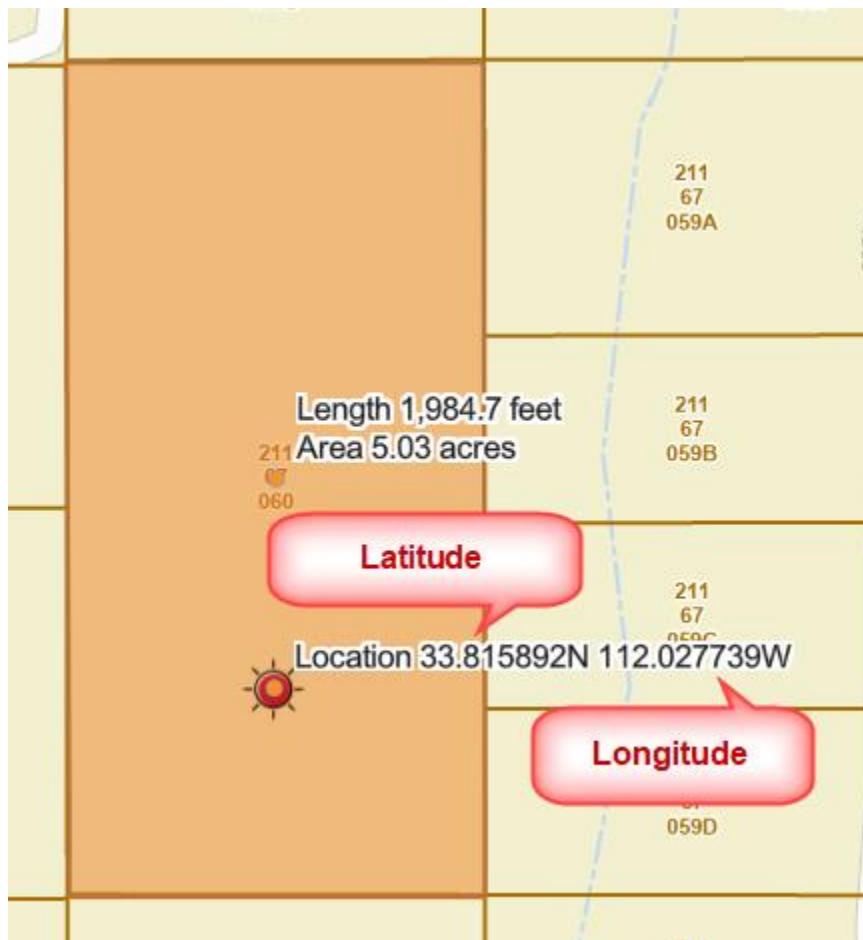
Place a point on the map.



The Location is reported in DD with 6 decimal places.

Latitude = 33.815892 North

Longitude = 112.027739 West

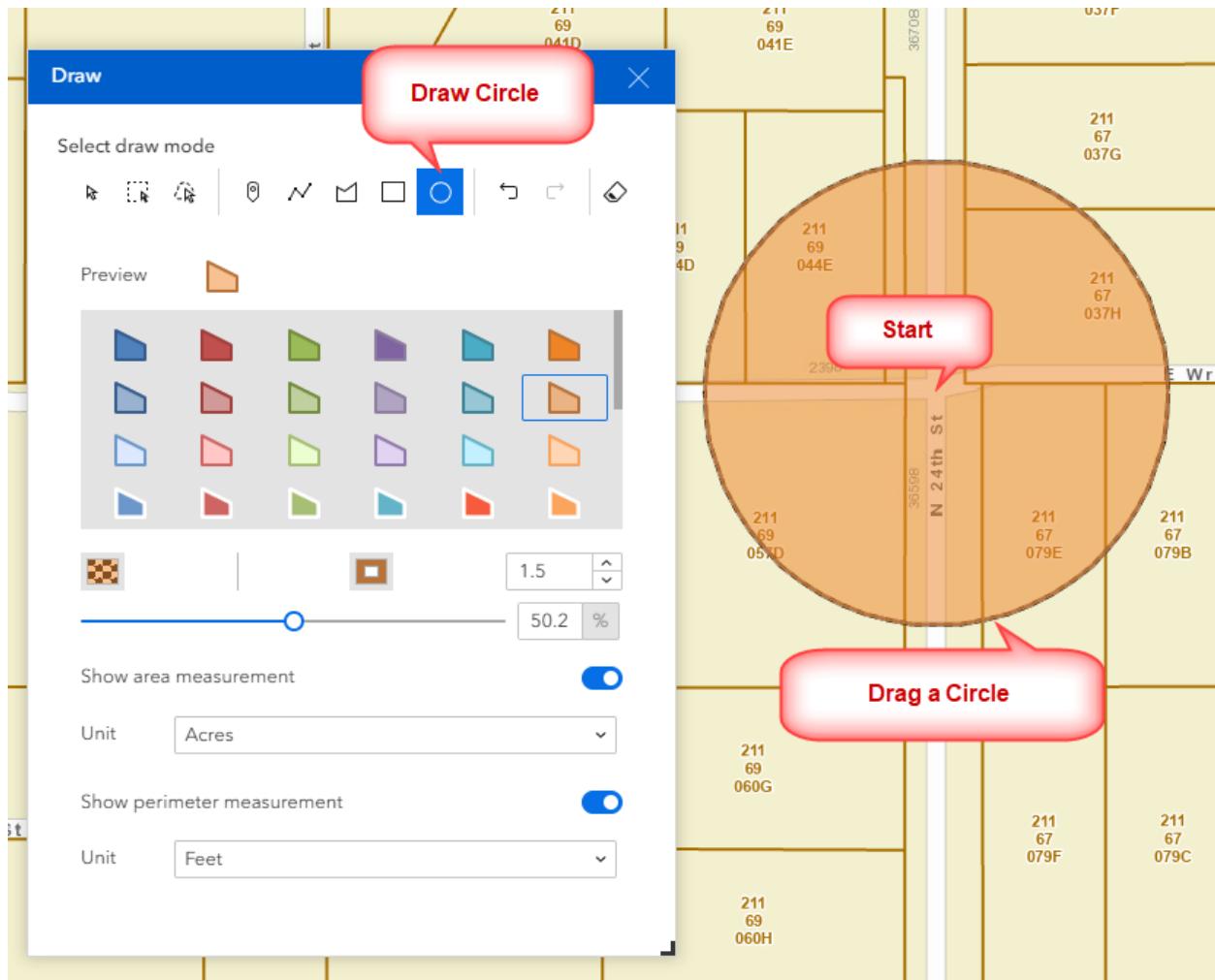


Select the Draw Circle Tool.

Drop a point at a Street Intersection to define the center of your circle.

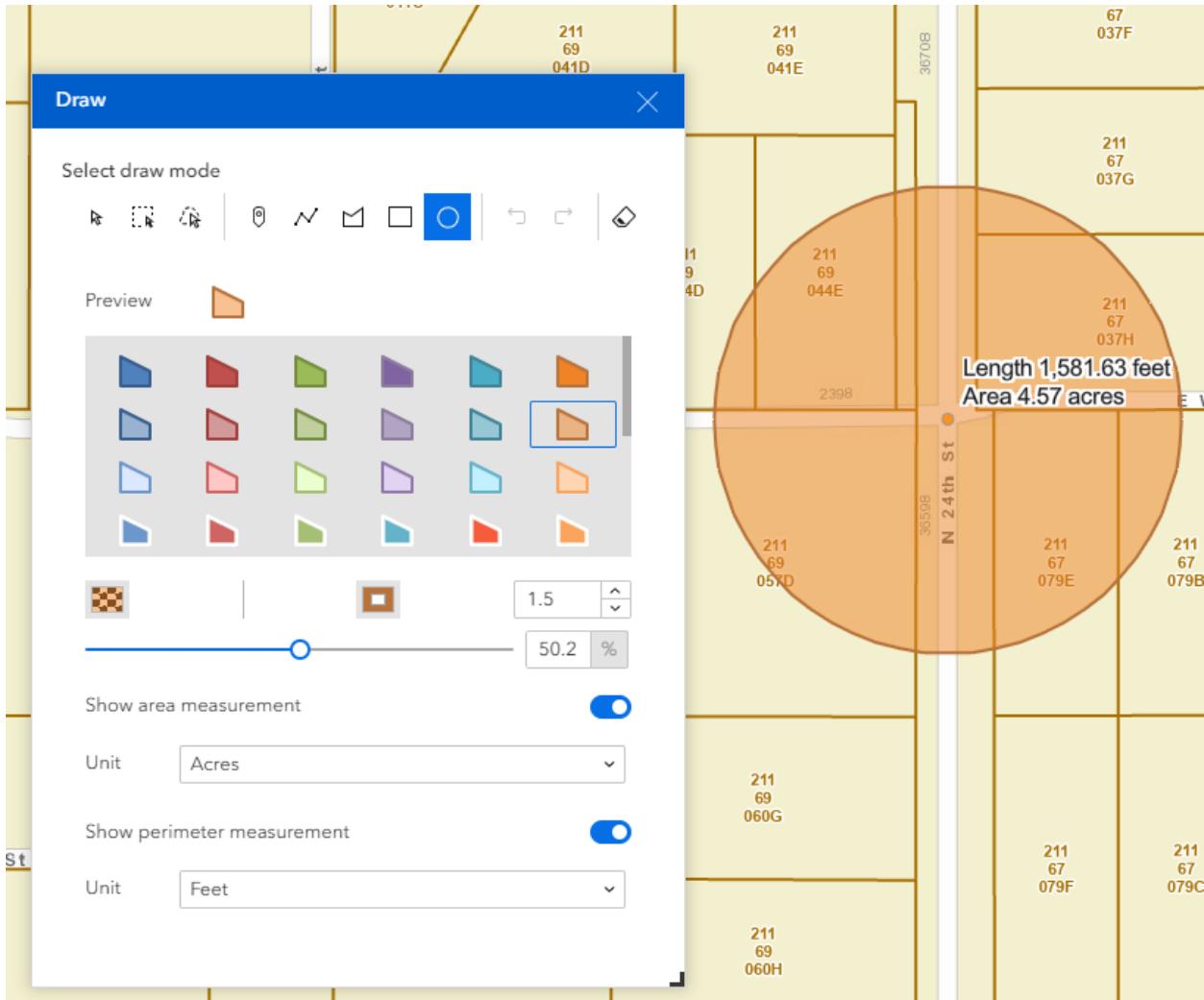
Drag your mouse to expand the circle.

Let go of your mouse when you get the desired size.

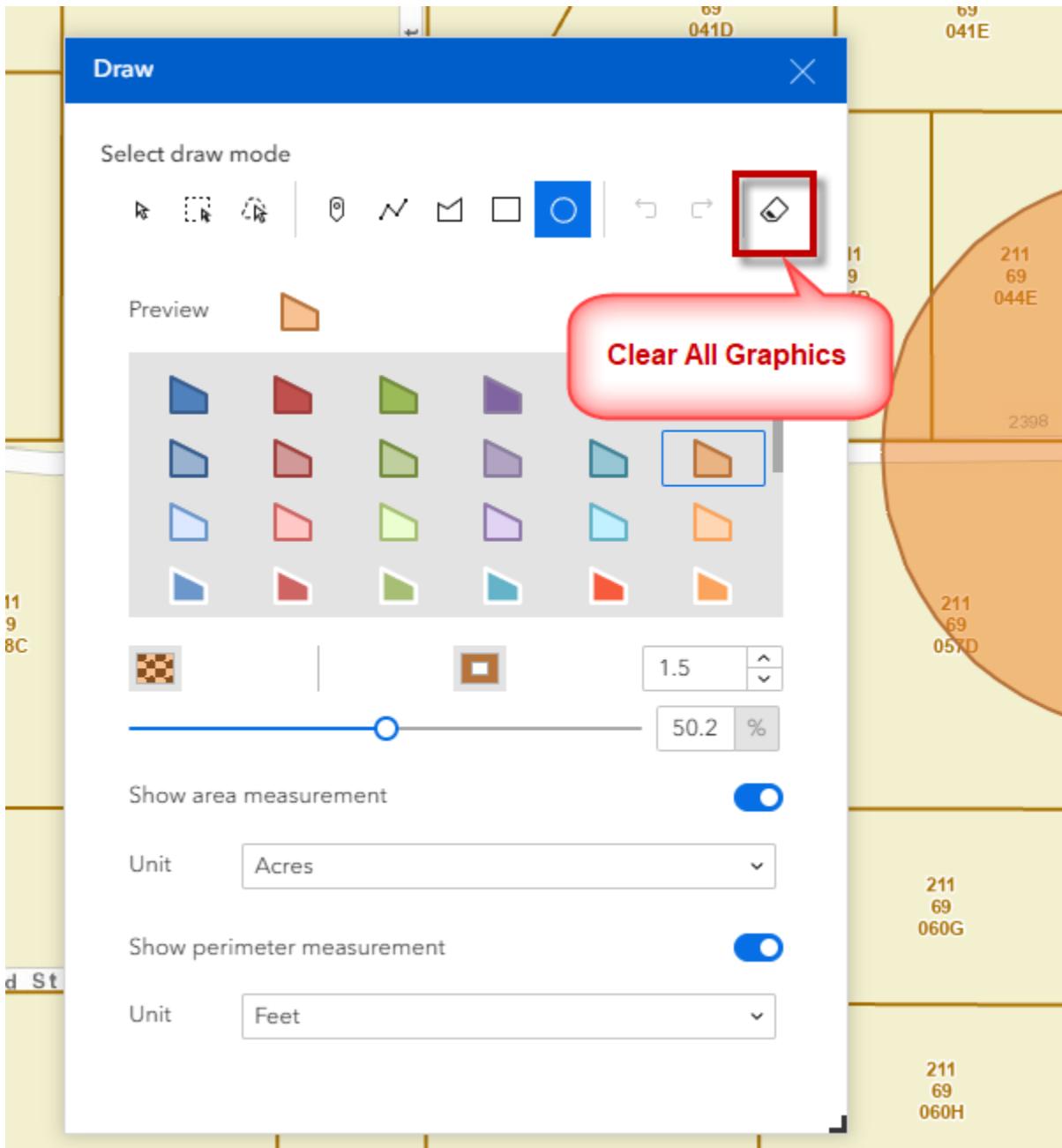


The **Area** of this circle is 4.57 Acres.

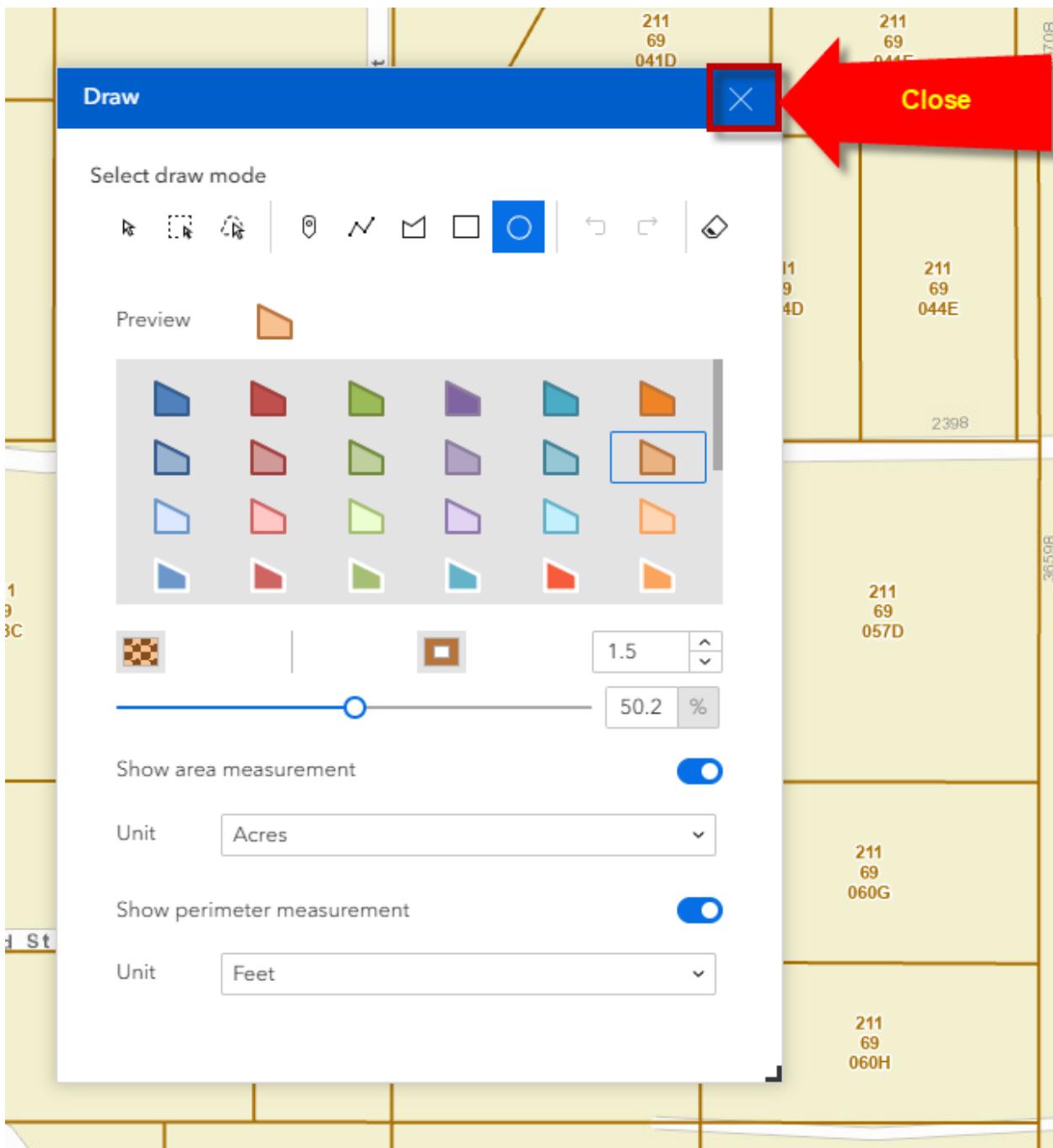
The **Circumference** is 1,581 Feet.



Clear all the graphics.

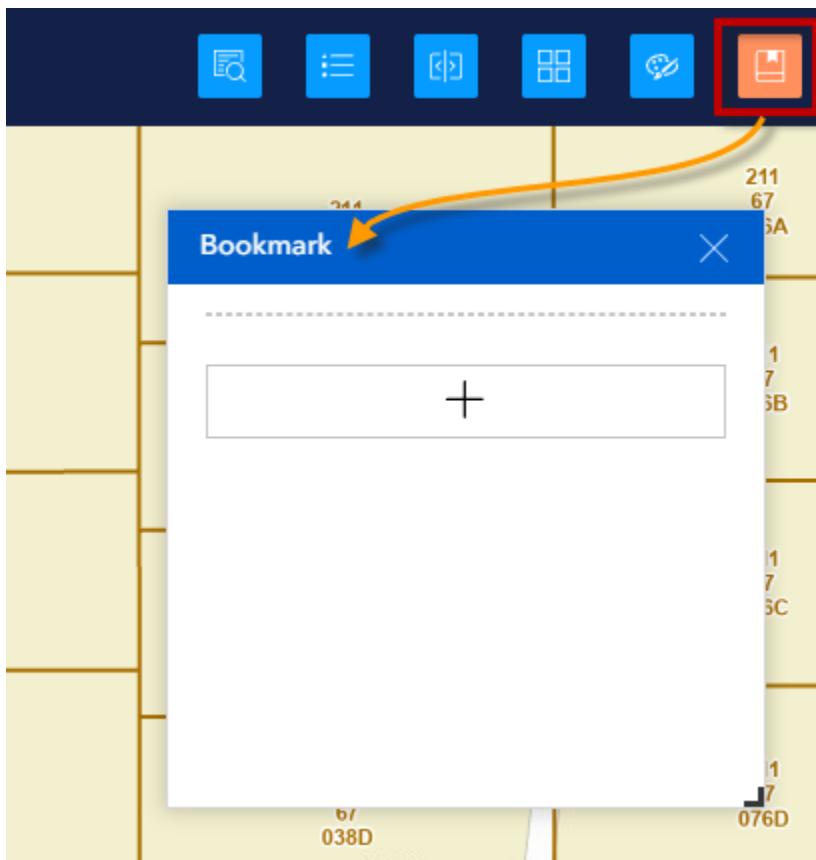


**Close** the Draw Widget.



## Bookmark Widget

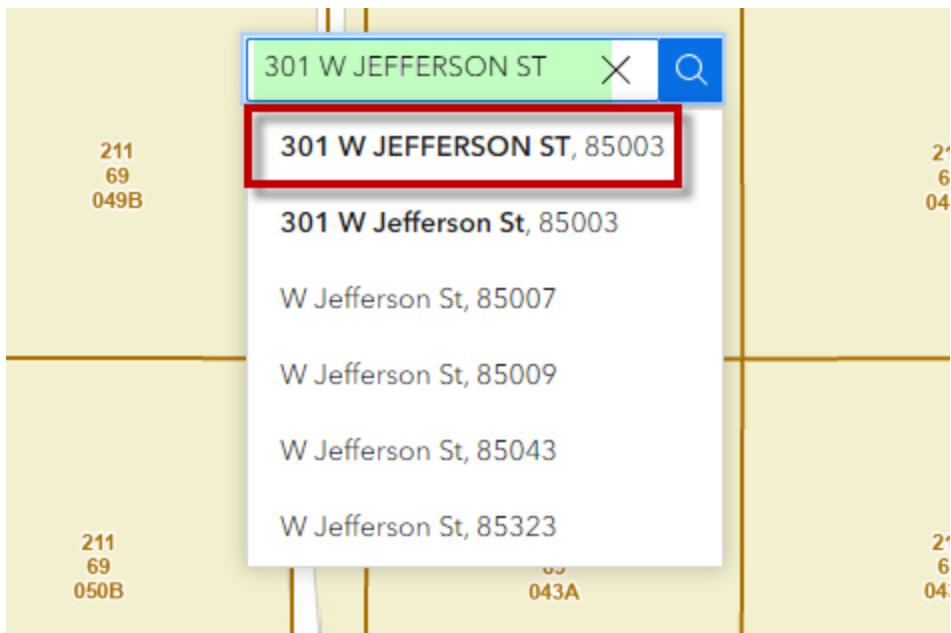
Open the Bookmark Widget.



The Bookmark Widget allows you to save a series of map extents that you can jump to anytime to save you time.

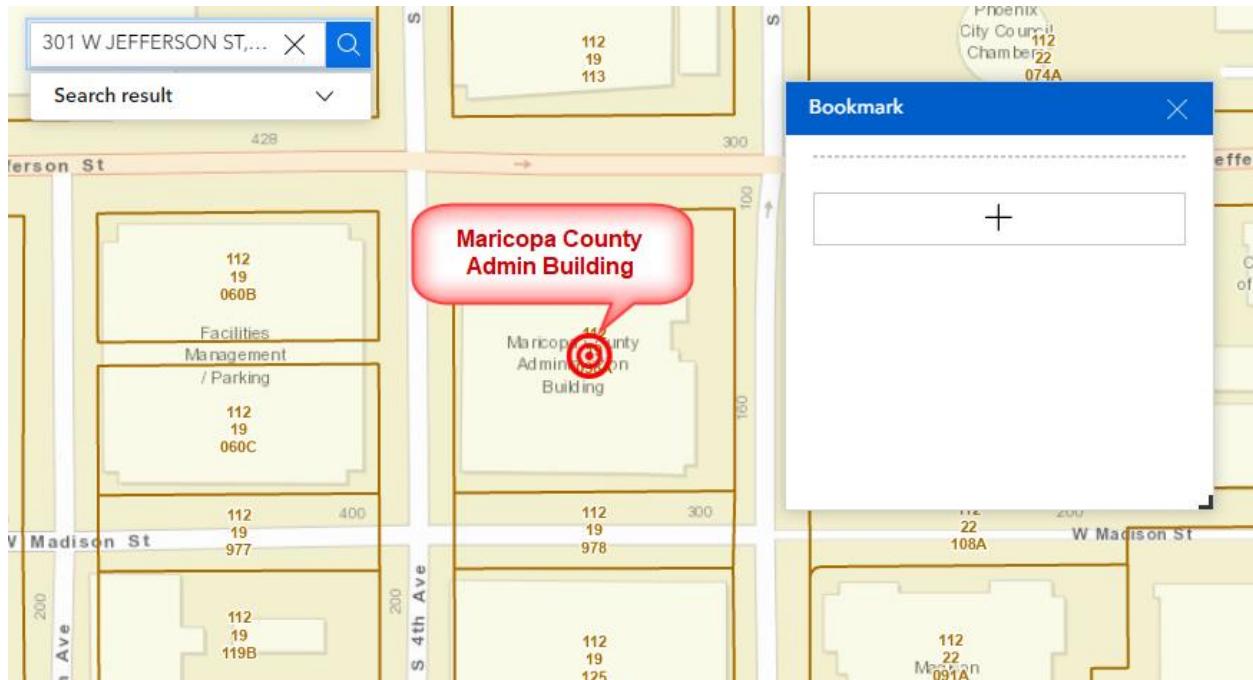
Enter this Street Address in the **Search Tool**.

301 W JEFFERSON ST

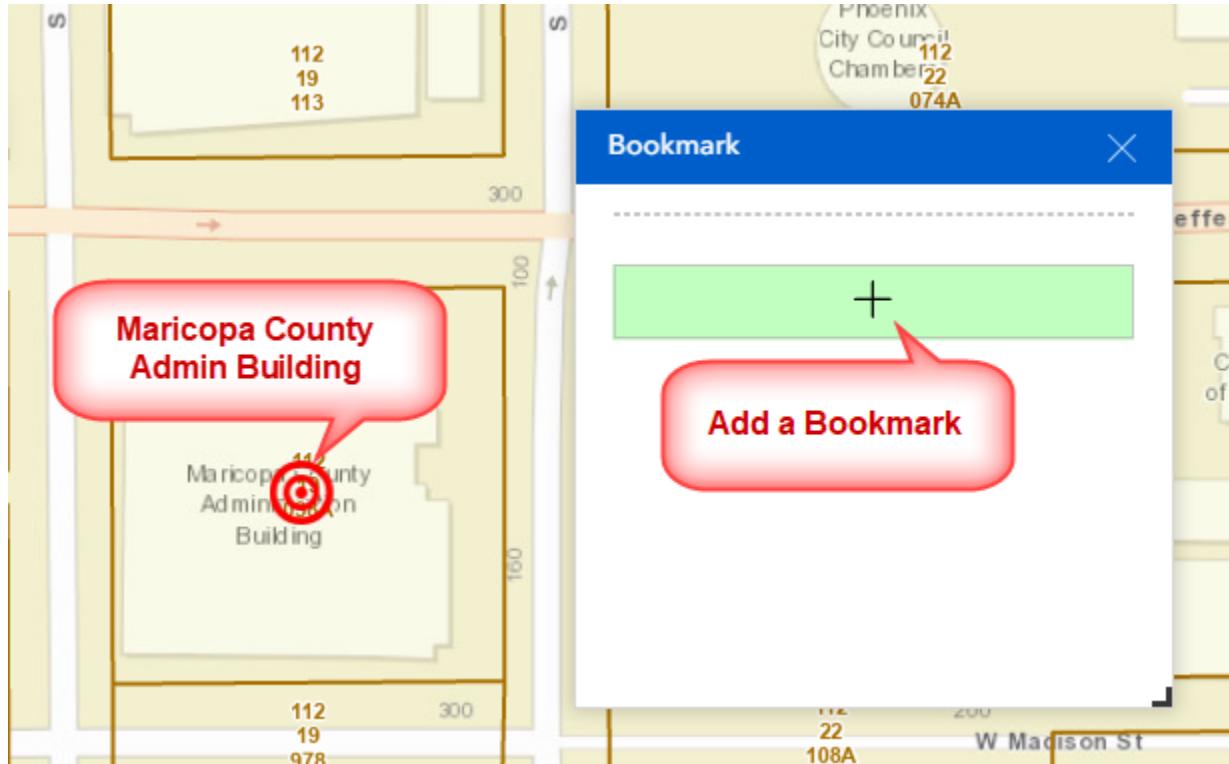


Select **301 W JEFFERSON ST, 85003** from the drop-down list.

The map will zoom to the Maricopa County Administration Building.

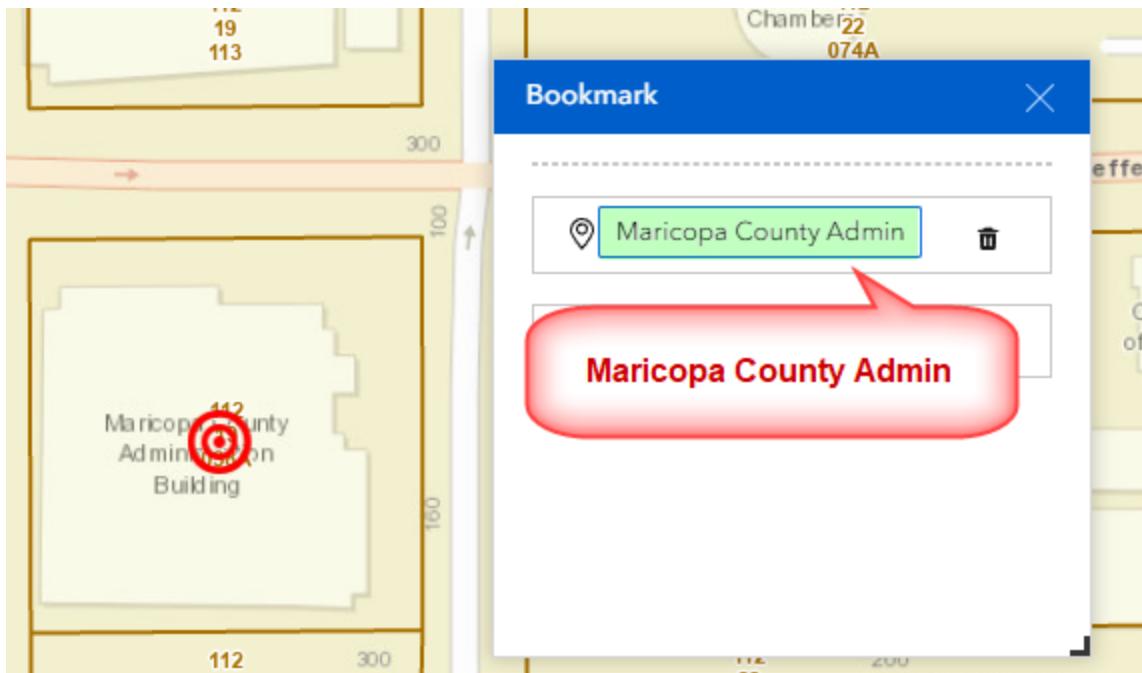


Click on the Add Button to add a bookmark.



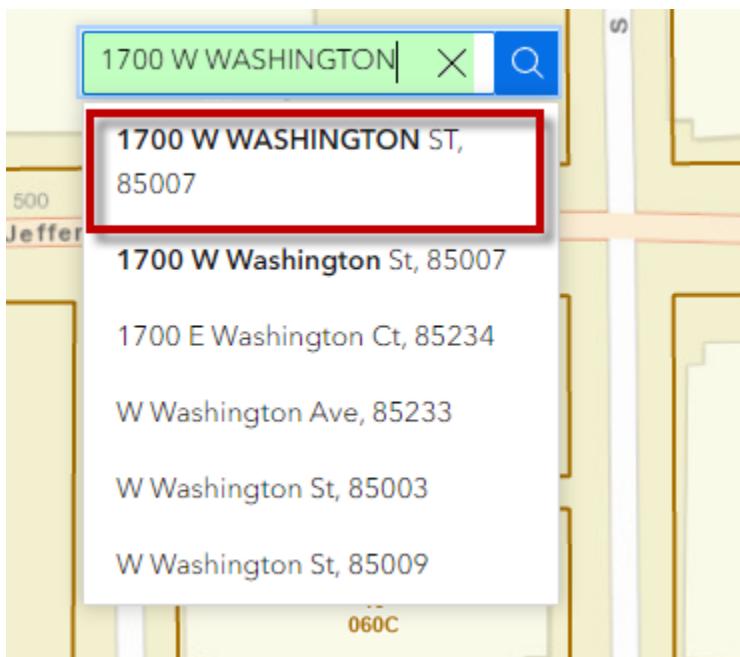
Bookmark (1) gets added.

Rename this bookmark to **Maricopa County Admin**.



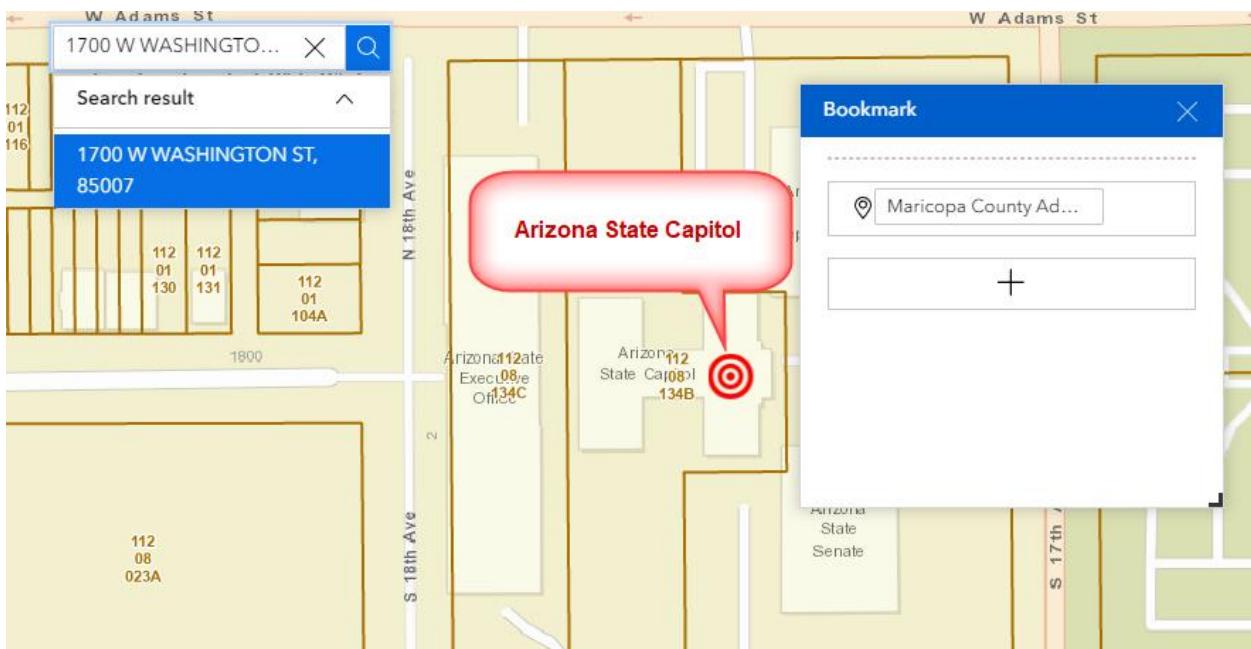
Enter another Address in the Search Tool.

1700 W WASHINGTON

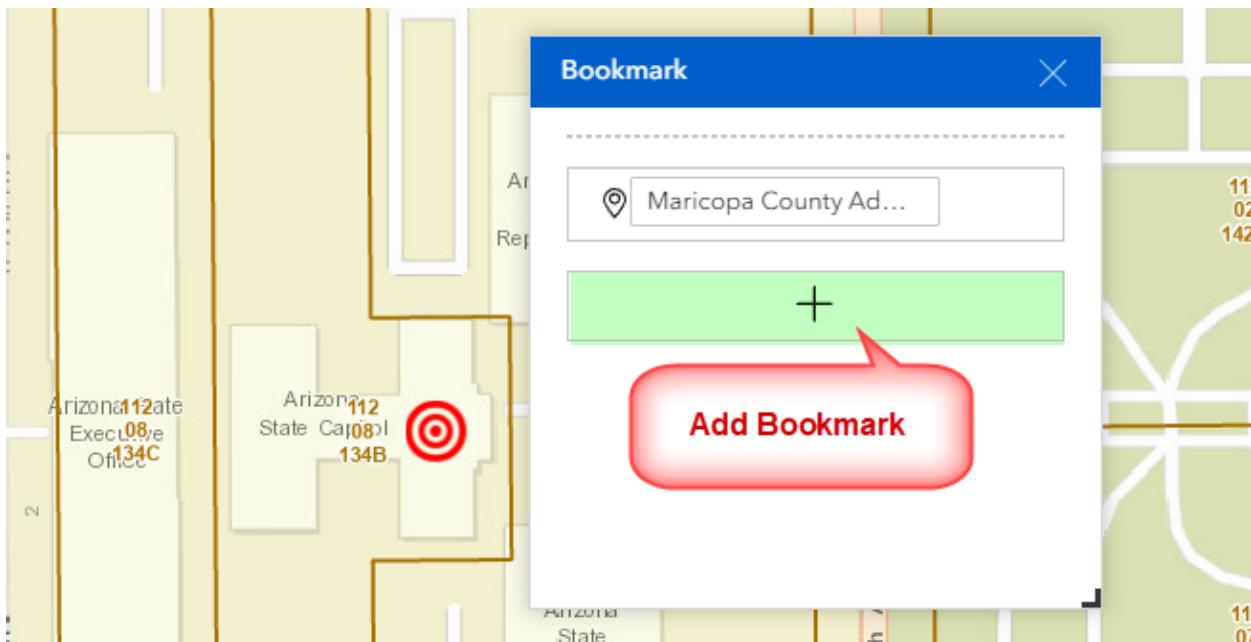


Select **1700 W WASHINGTON ST, 85007** from the drop-down list of choices.

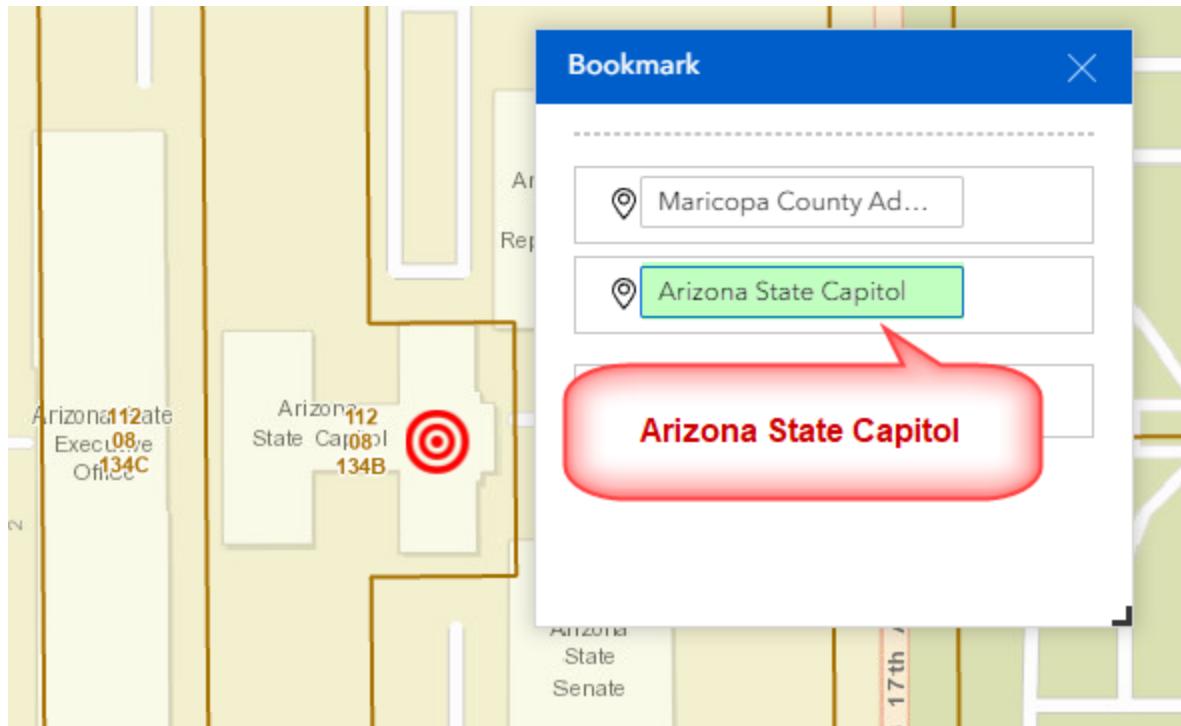
The map zooms to the **Arizona State Capitol Building**.



Press the **Add Button** to add your second bookmark.

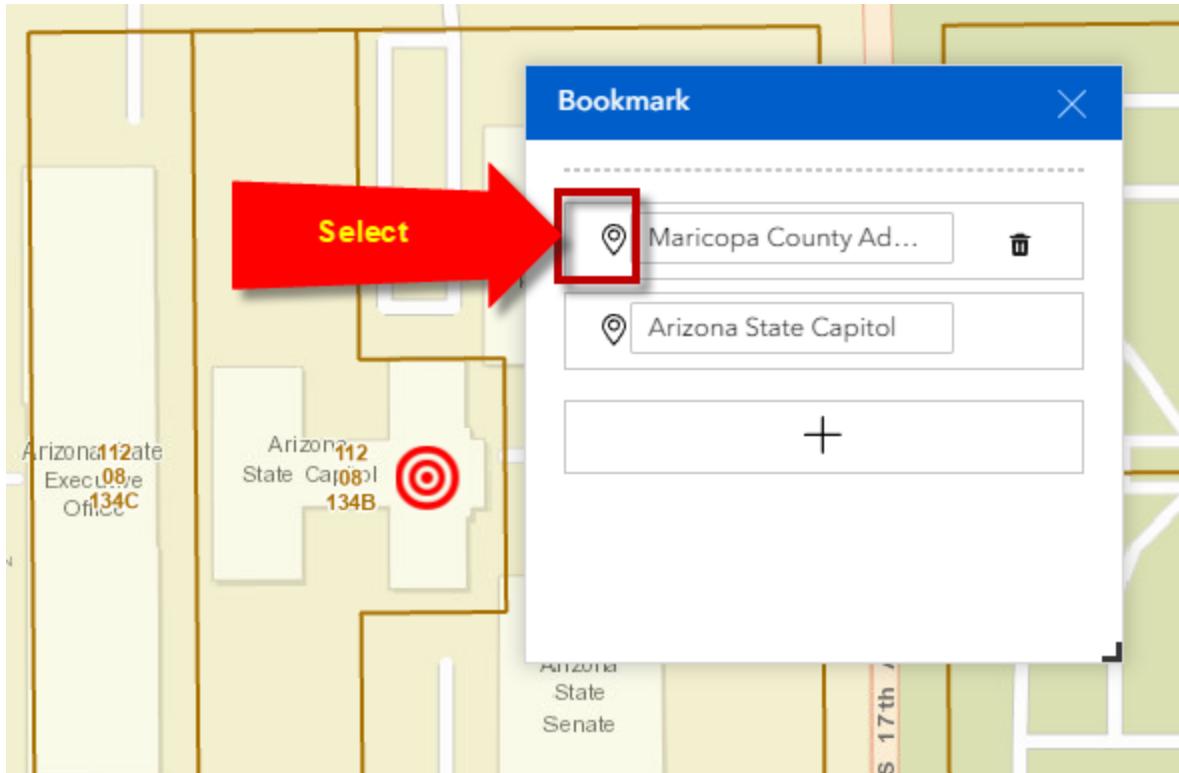


Rename Bookmark (2) to **Arizona State Capitol**

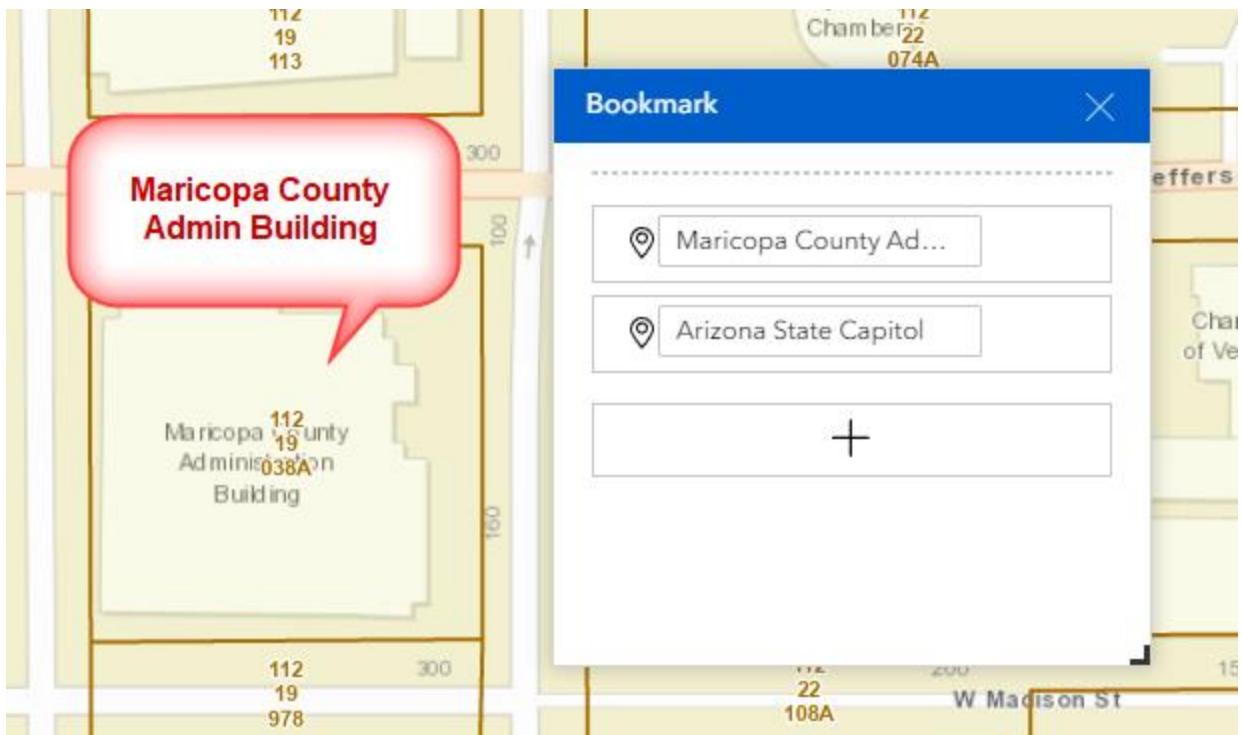


Now that you have two bookmarks saved, you can instantly jump between the two.

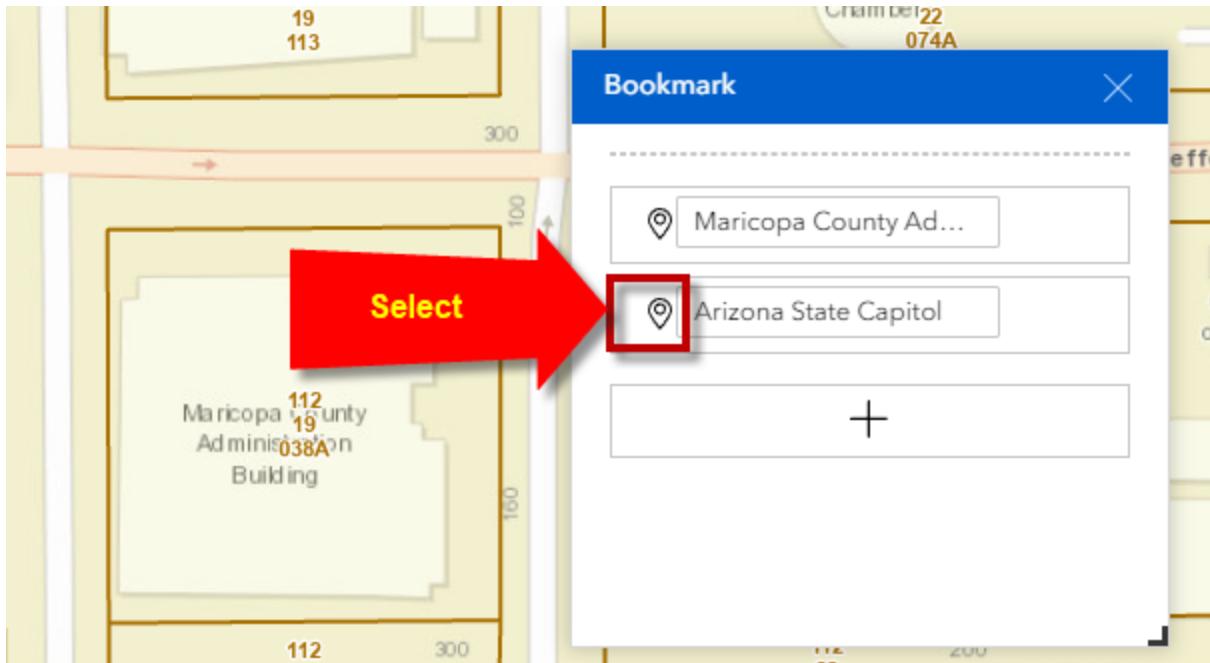
Select the Maricopa County Admin Bookmark.



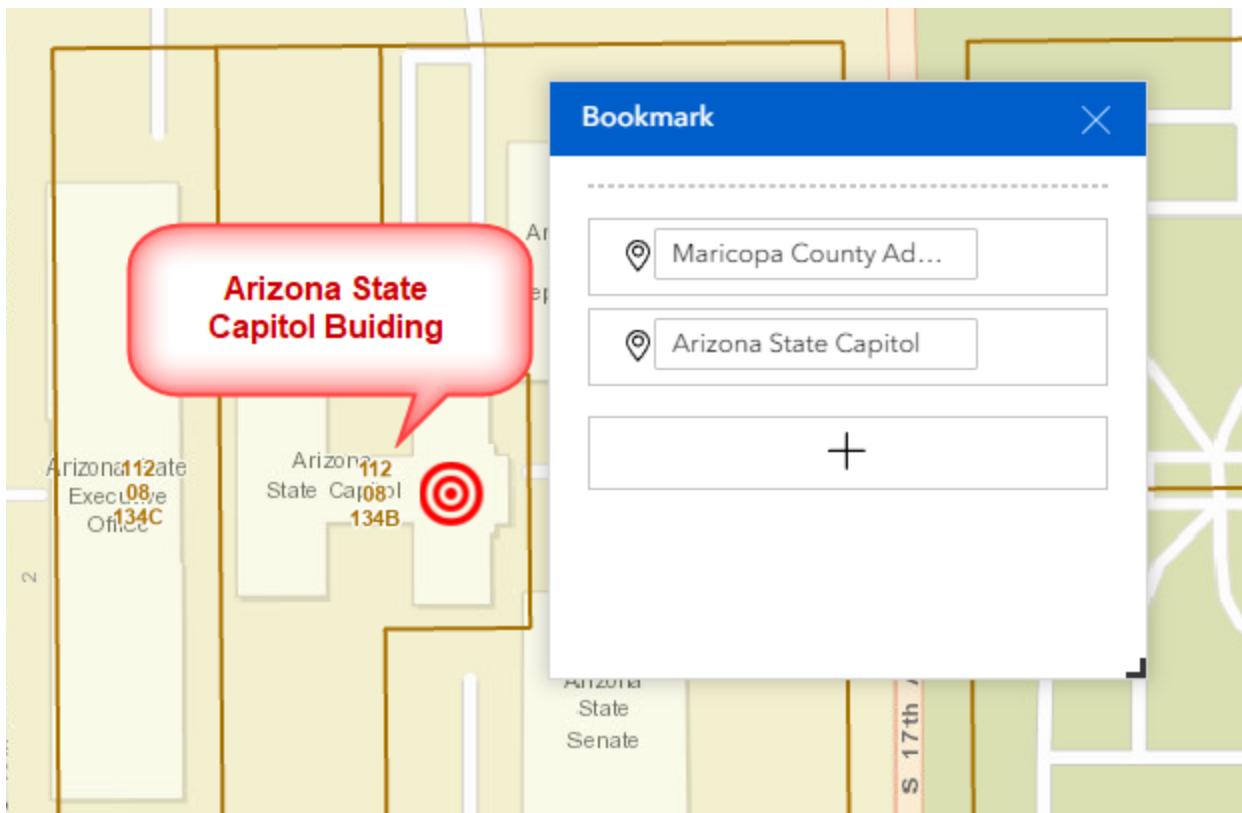
The map will zoom to the Maricopa County Admin Building.



Select the Arizona State Capitol Bookmark.



The map will instantly zoom to the Arizona State Capitol Building.

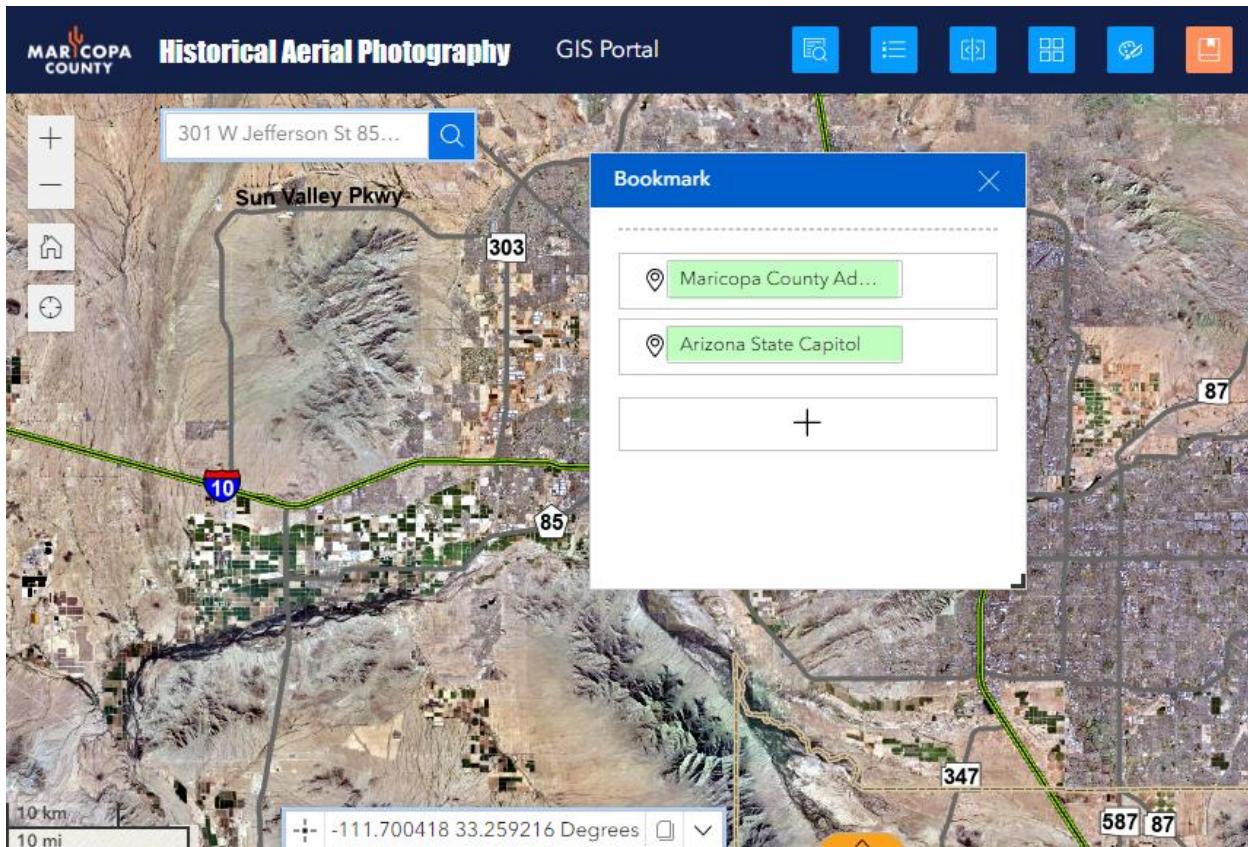


Close your browser window.

Restart this Web Application.

Open the Bookmark Widget.

Notice that your Bookmarks are still there!



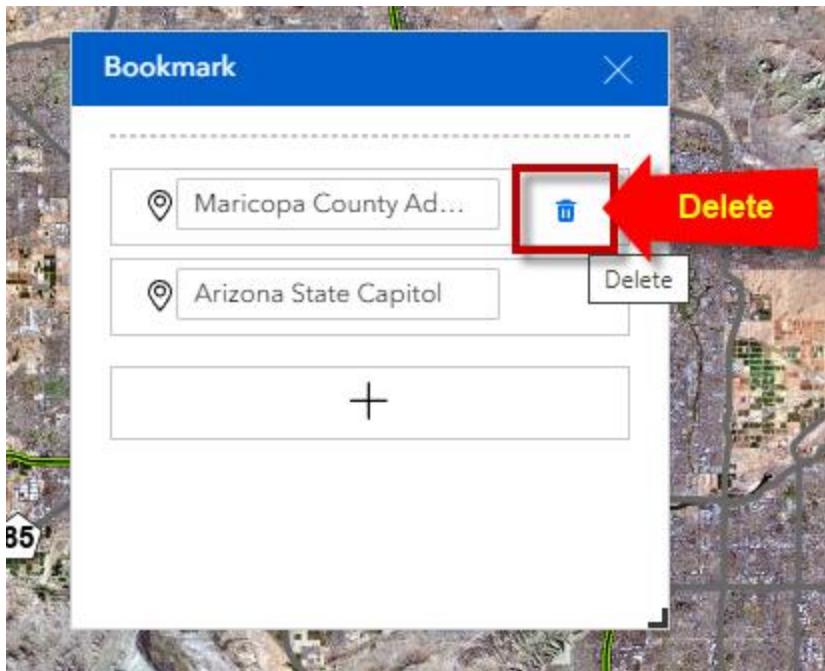
Bookmarks are saved to your Browser Cache.

They do not get deleted when you close your browser.

They would always be present when you open a new session.

However, you can manually delete any bookmark by clicking the **Delete Tool**.

They will be permanently deleted from your current session and your browser cache.



There is no undo function.

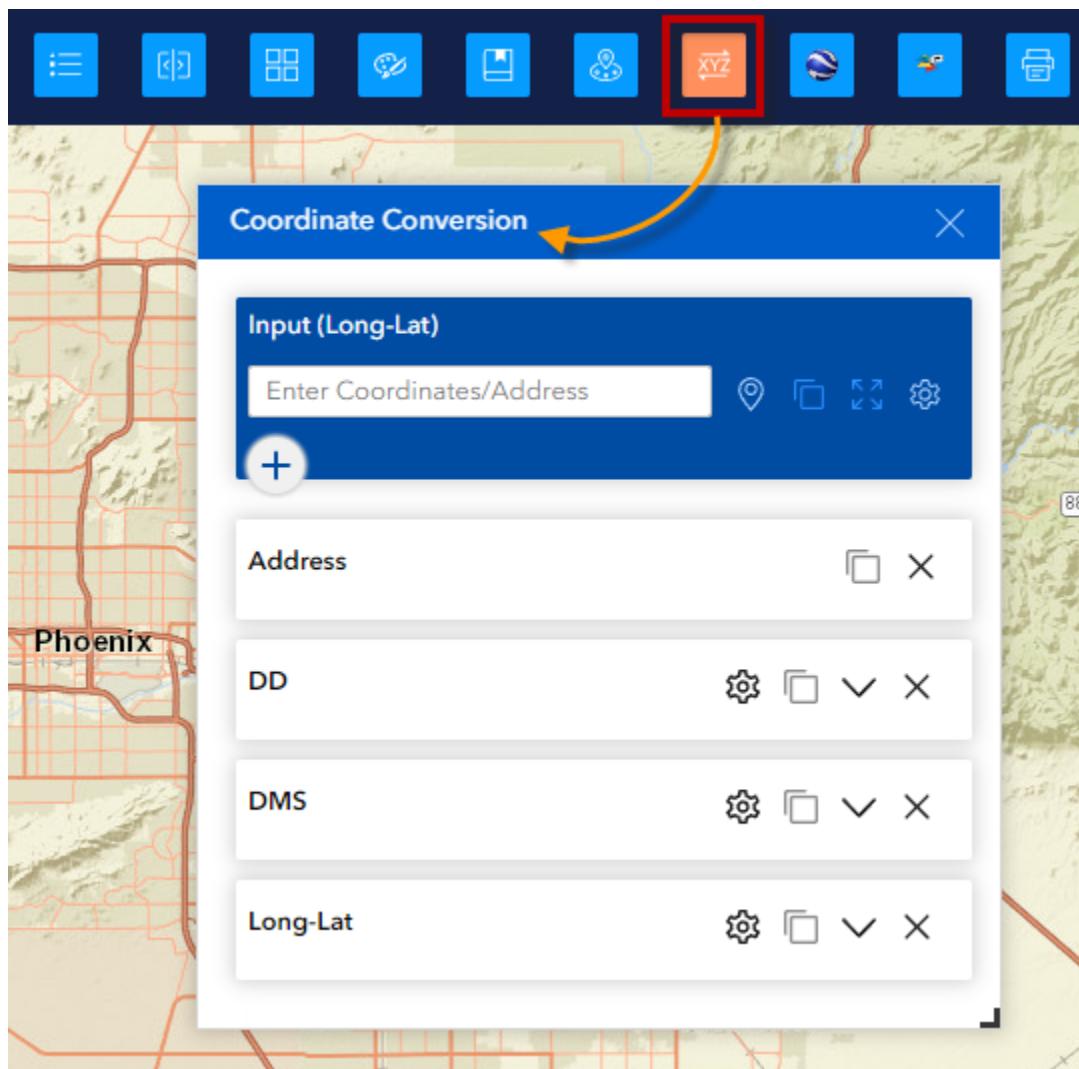
Once deleted, they are gone for good.

You can add as many bookmarks as you need.

They will appear in a scrolling list.

## Coordinate Conversion Widget

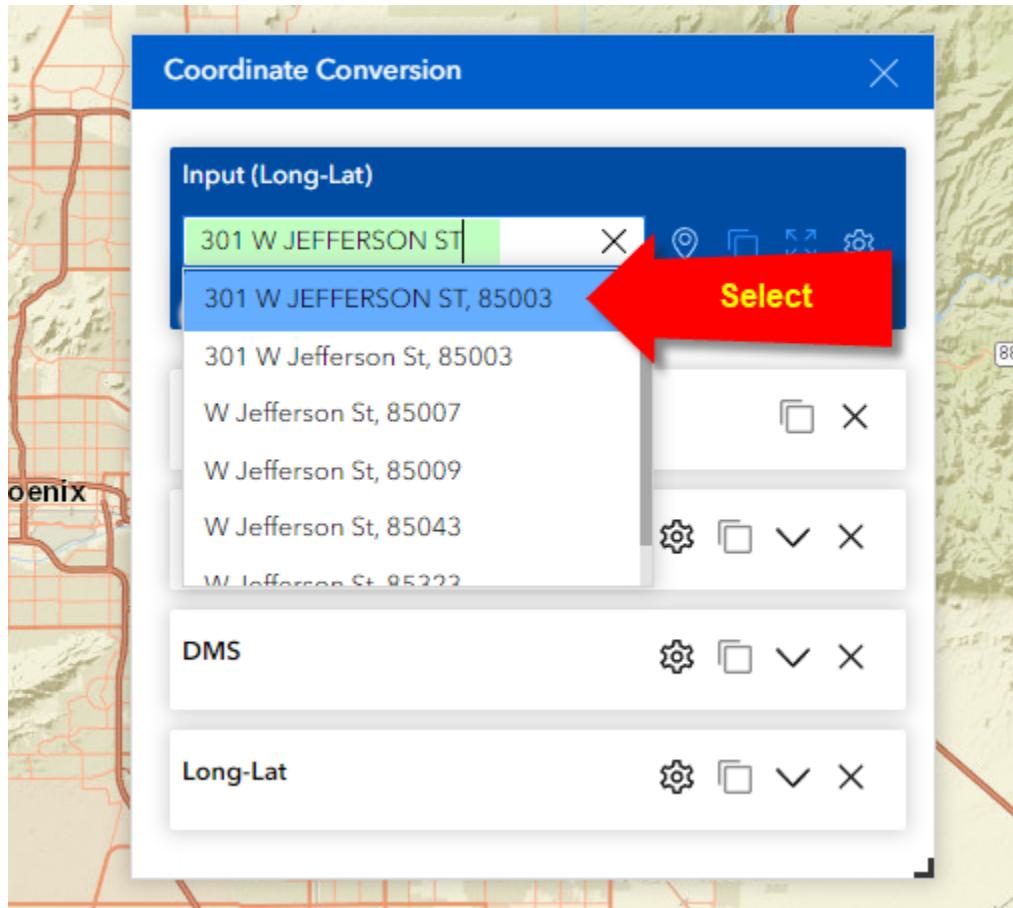
Open the Coordinate Conversion Widget.



This widget lets you zoom to any Street Address or Coordinate.

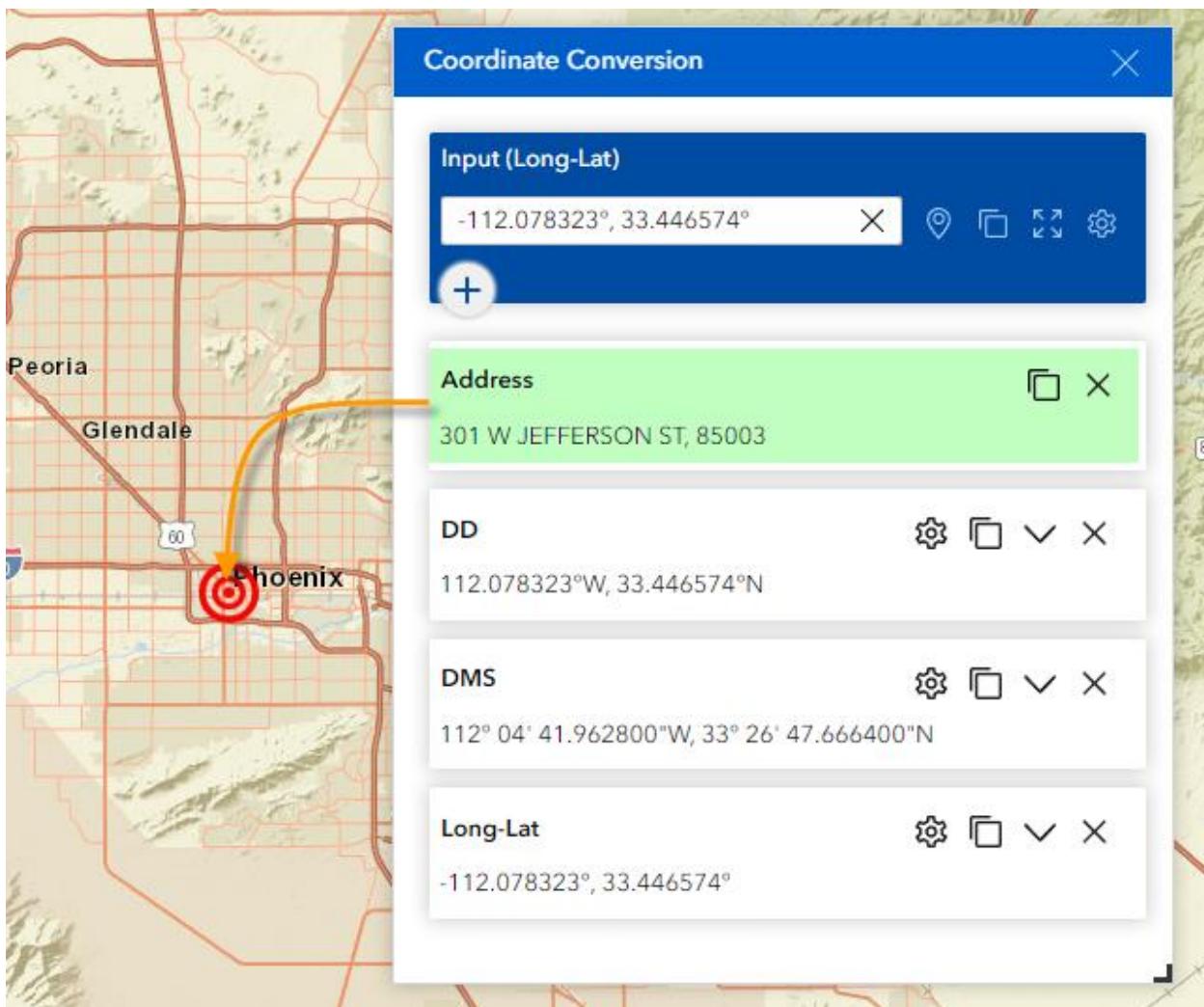
Enter this Street Address:

301 W JEFFERSON ST



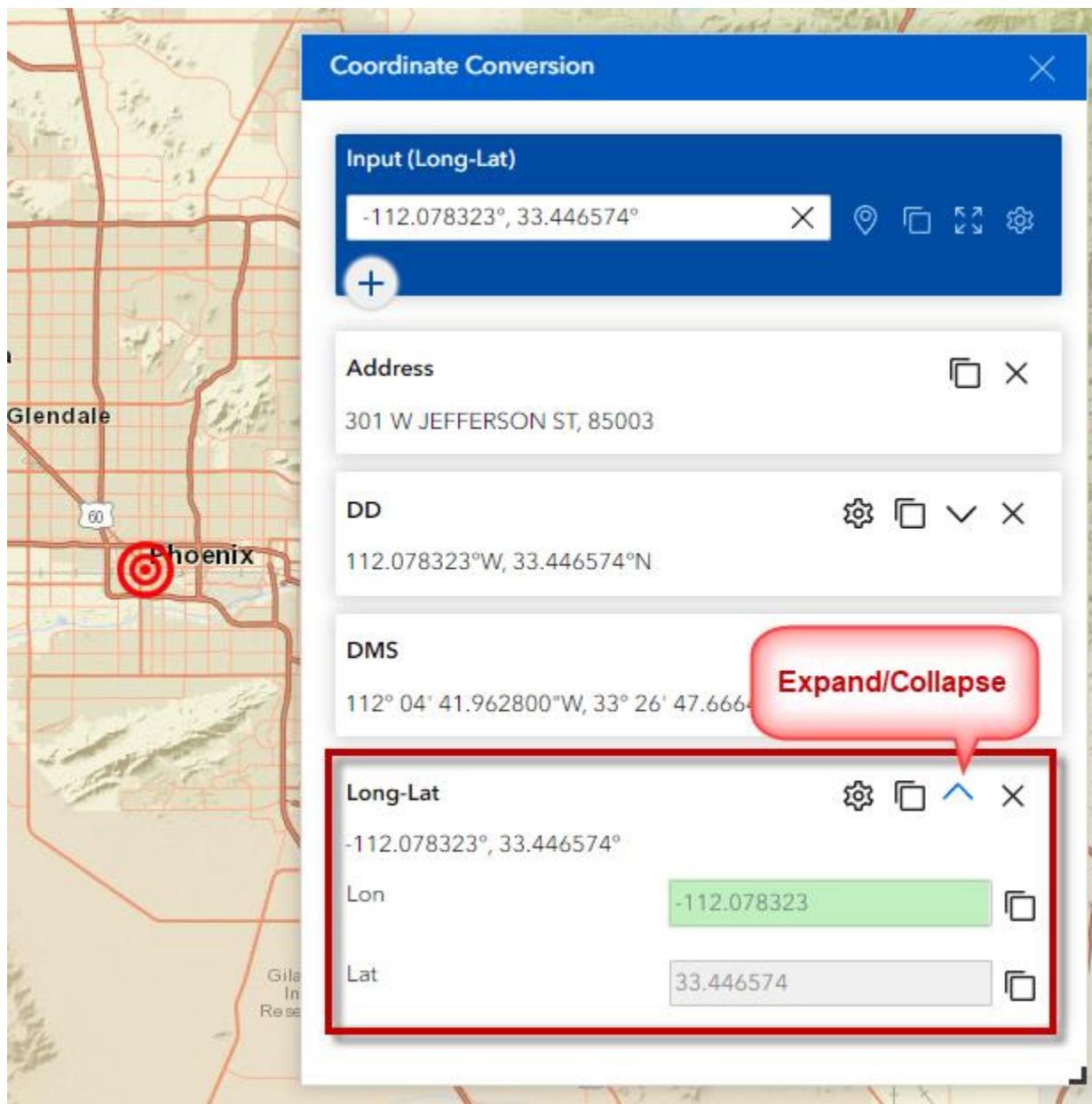
Select 301 W JEFFERSON ST, 85003 from the list of choices.

A red target will appear on the map at this address.

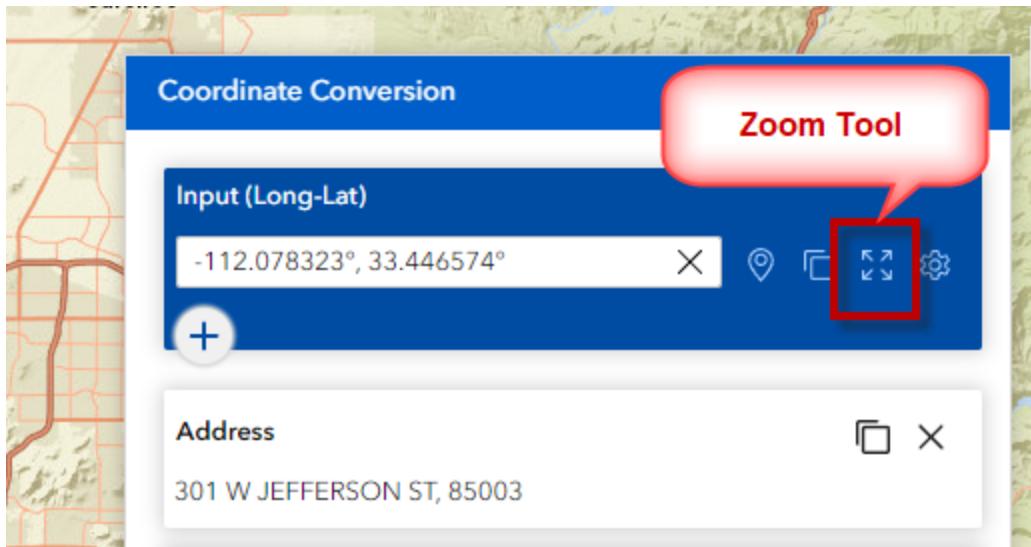


This widget will also display the coordinates of this Address Point in Decimal Degrees, Degree Minutes Seconds, and Longitude-Latitude.

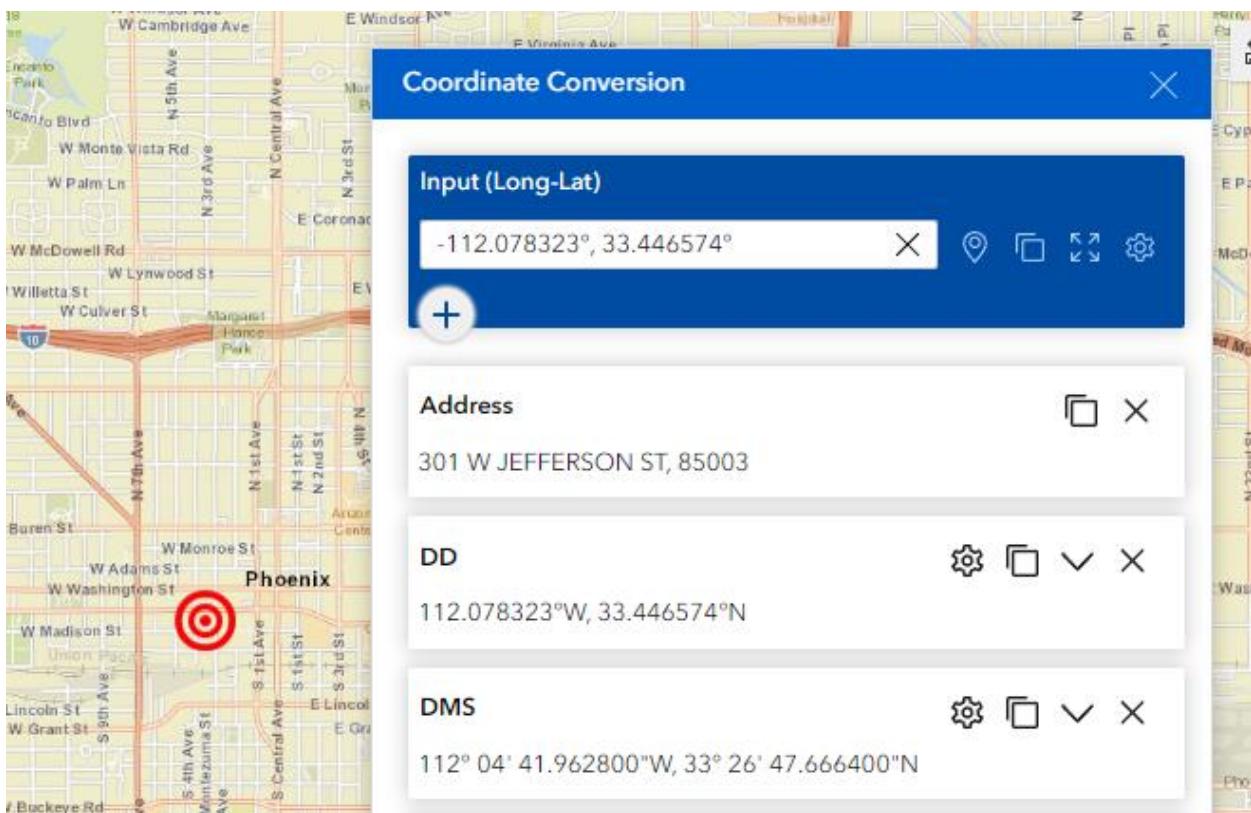
Expand to see the coordinates.



Click on the Zoom Tool.



The map will zoom closer to your target location.



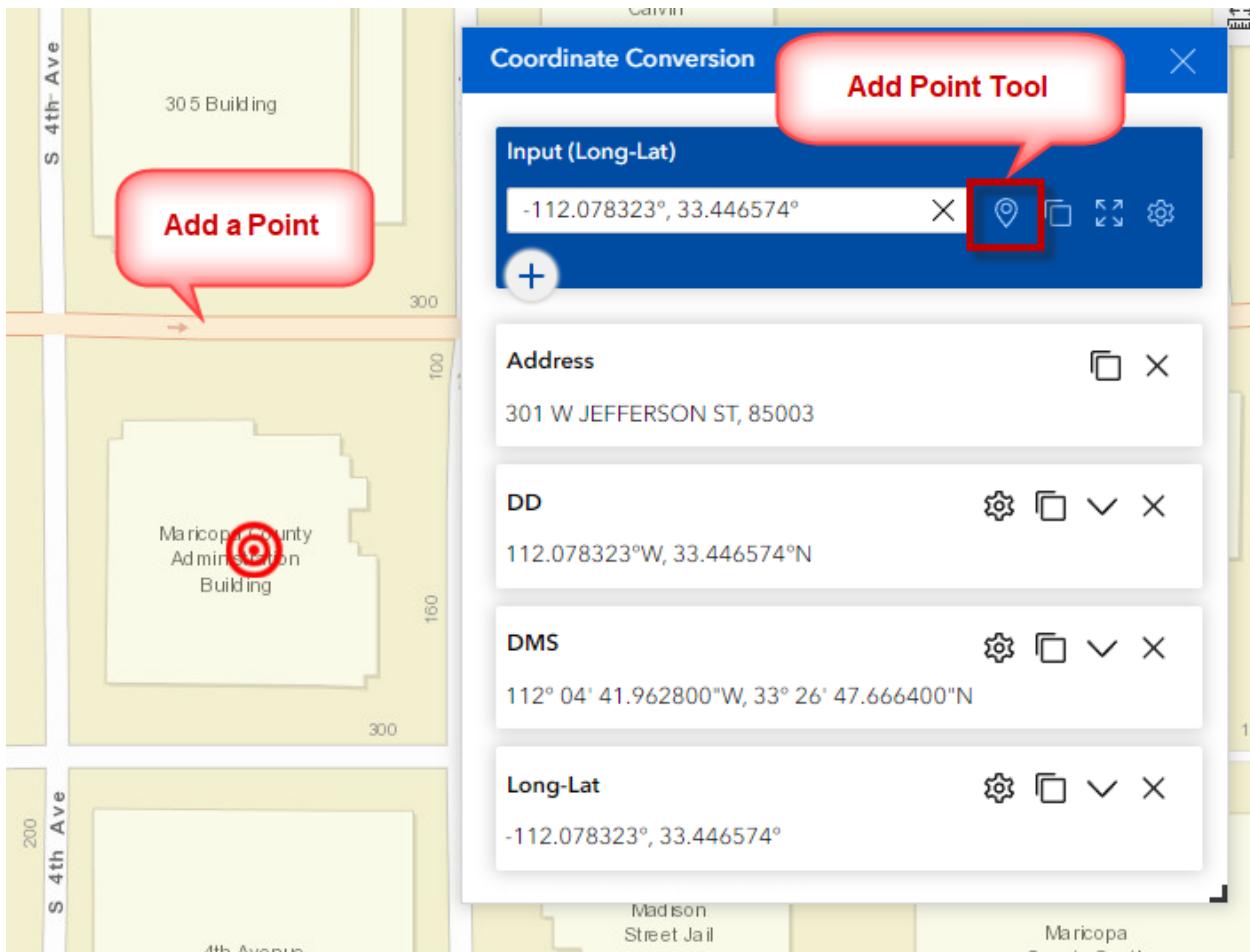
Click several times on the **Zoom In Tool**



A screenshot of a map application interface. On the left, a map shows a street view with buildings labeled "305 Building" and "Maricopa County Administration Building". A red circle highlights the Maricopa County Administration Building. On the right, a "Coordinate Conversion" dialog box is open. The "Input (Long-Lat)" field contains the coordinates "-112.078323°, 33.446574°". Below this, the "Address" field shows "301 W JEFFERSON ST, 85003". Further down, the "DD" (Degree Decimal) field shows "112.078323°W, 33.446574°N". The "DMS" (Degree Minutes Seconds) field shows "112° 04' 41.962800"W, 33° 26' 47.666400"N". The "Long-Lat" field at the bottom also displays the same coordinates. Each field has a settings gear icon, a copy icon, a dropdown arrow icon, and a close X icon.

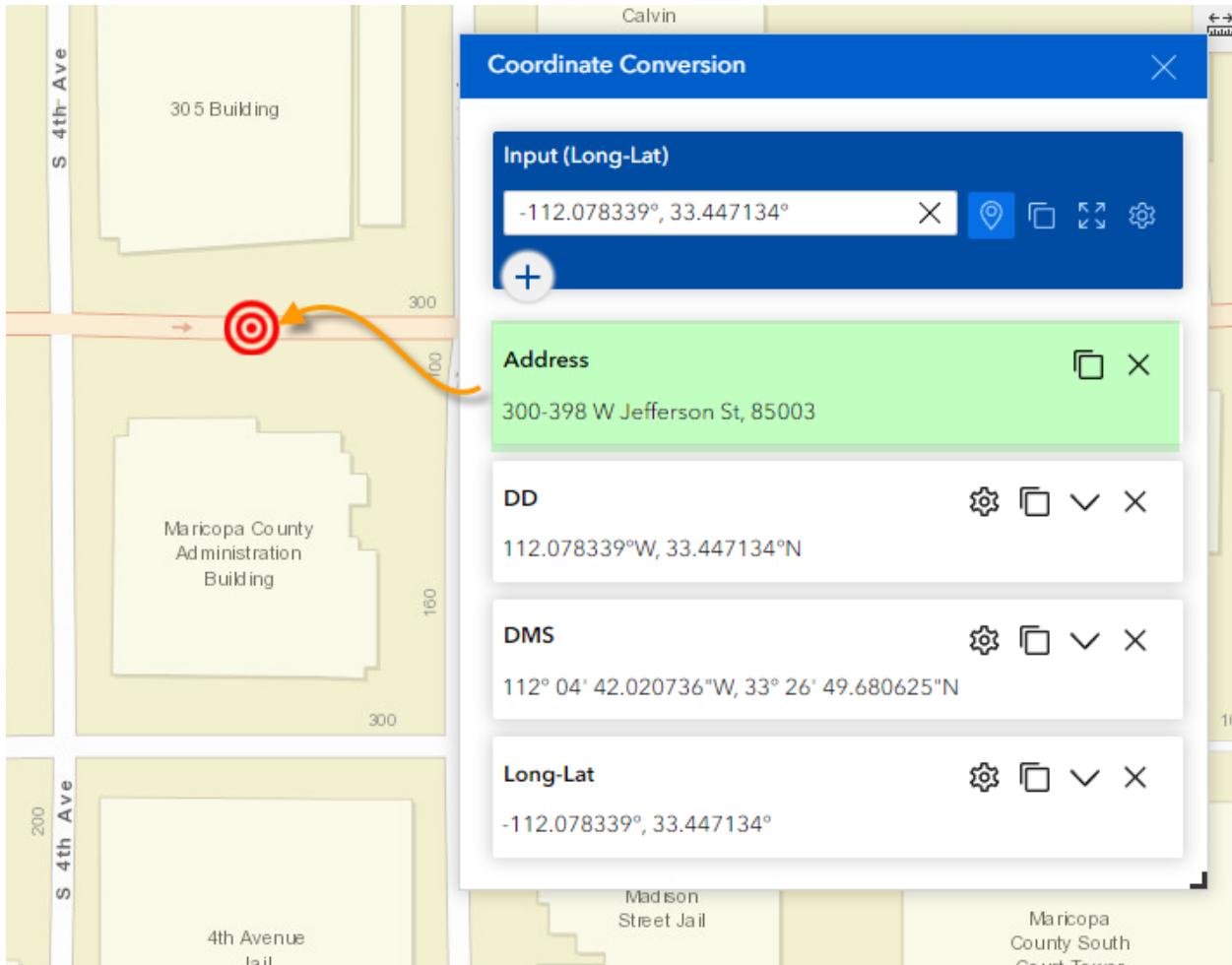
You can use the Coordinate Conversion Widget to reverse geocode a Street Address.

Use the **Add Point Tool** to add a point on the street facing the County Admin Building.

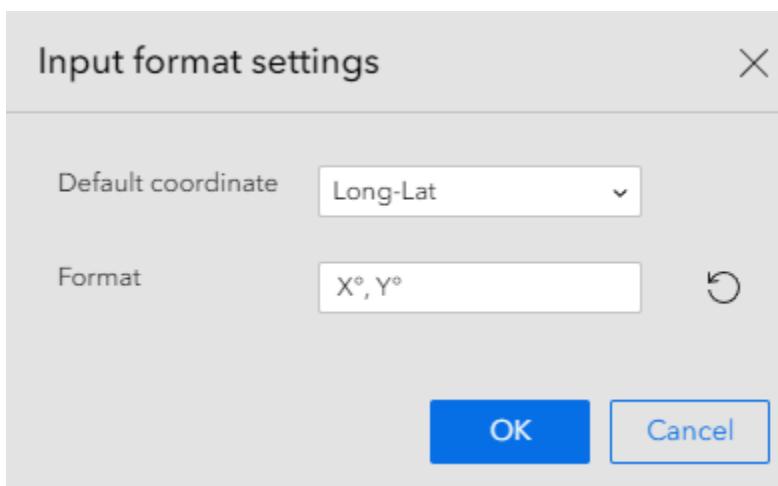
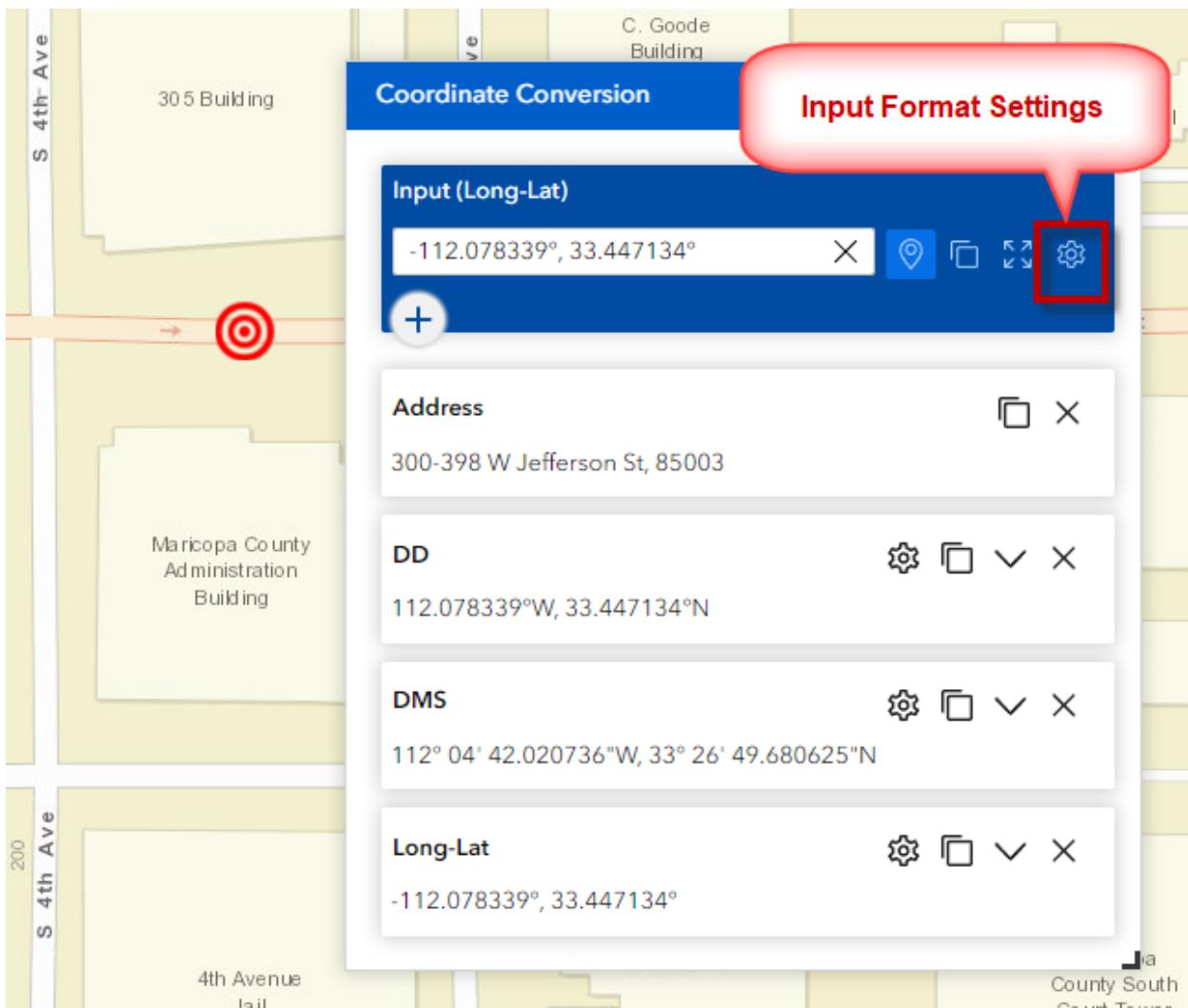


This widget will interpolate the house numbers on the street and show you the Address Range.

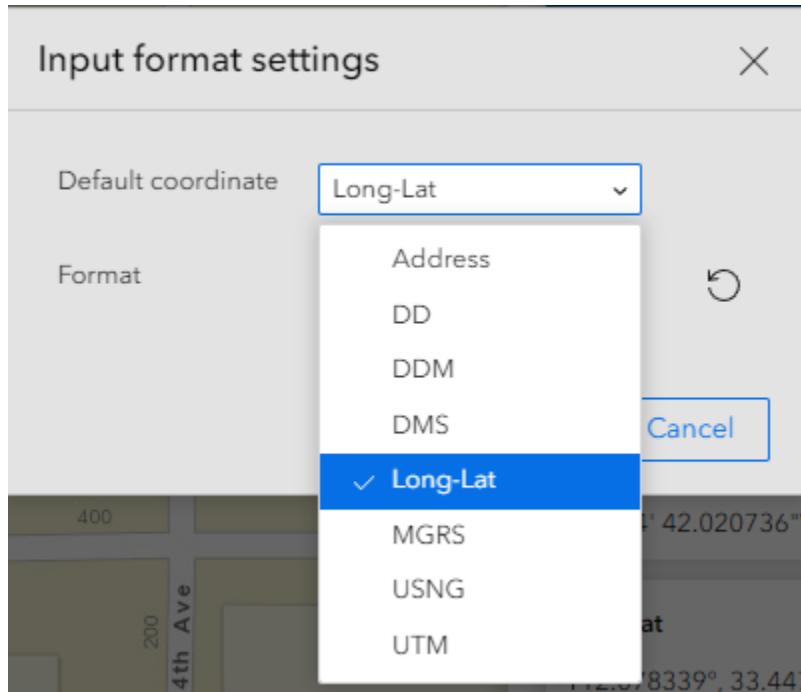
300-398 W Jefferson St, 85003



You can change the Input Format Settings.

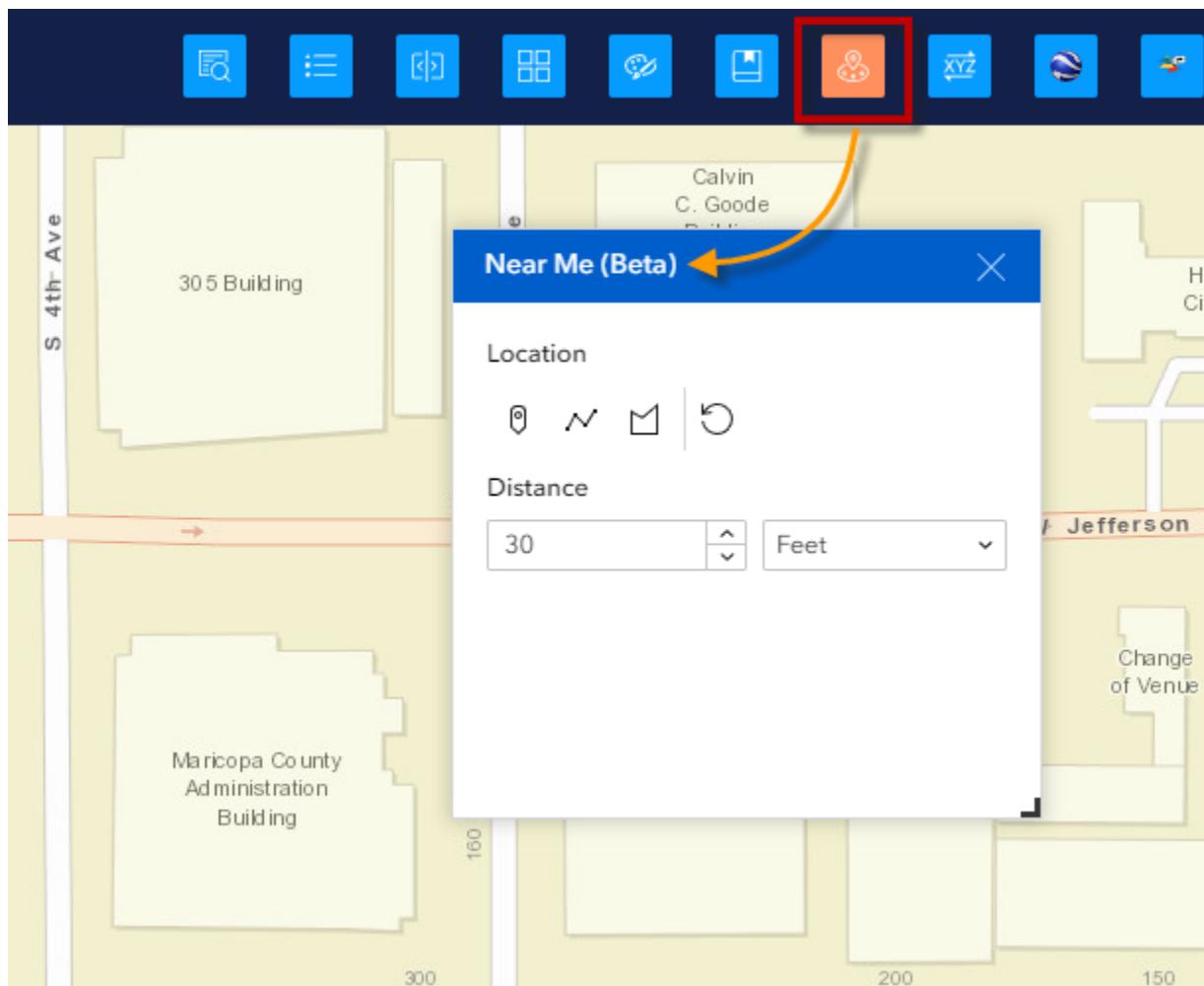


The default Input Format is **Long-Lat**



## Near Me Widget

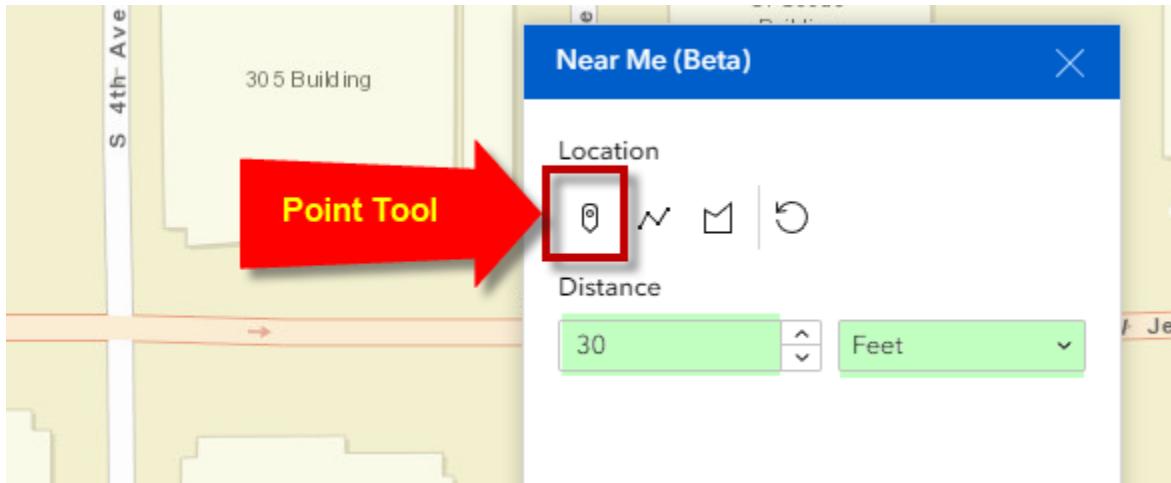
Open the Near Me Widget.



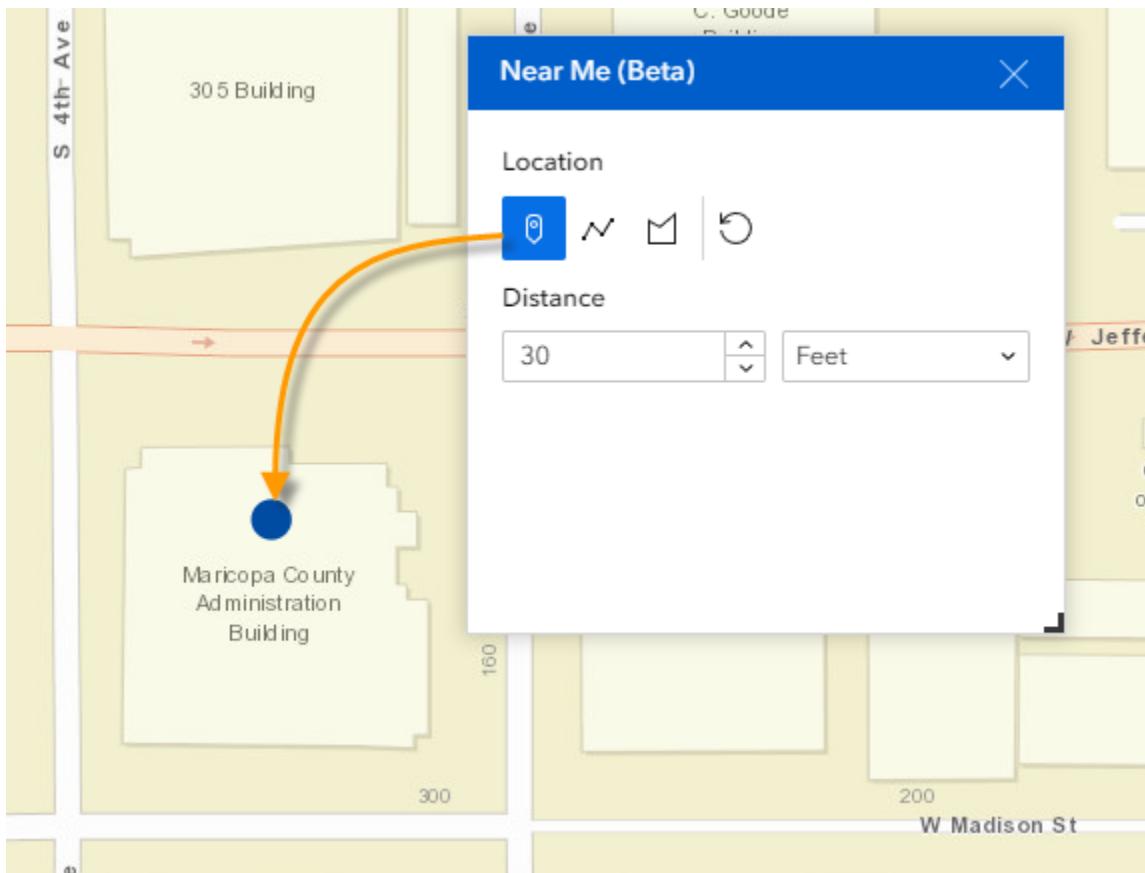
This widget drills down the map layers and provides information on the closest feature found within your specified search distance.

Set your Search Distance to 30 feet.

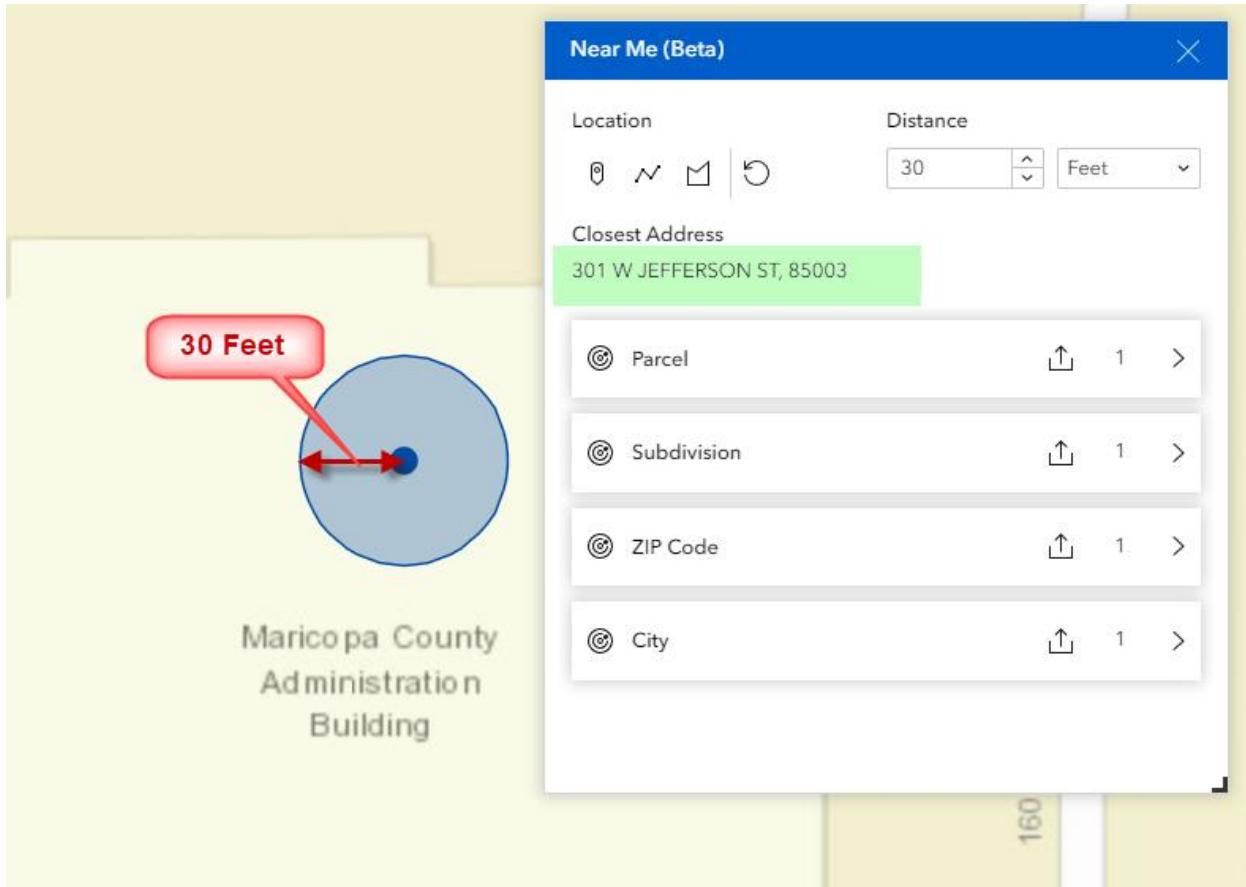
Select the Point Tool.



Drop a point over the Maricopa County Admin Building.



It finds the closest address as 301 W JEFFERSON ST, 85003.



The widget reports the closest Parcel, Subdivision, ZIP Code and City.

**Expand Parcel** to see the attributes.

The closest parcel boundary is highlighted in cyan.

The screenshot shows a map interface with a cyan-outlined polygon representing the closest parcel. A red speech bubble labeled "Closest Parcel" points to this polygon. To the right is a modal window titled "Near Me (Beta)". The "Location" section includes a search bar with "301 W JEFFERSON ST, 85003" and a "Distance" field set to "30 Feet". The "Closest Address" is listed as "301 W JEFFERSON ST, 85003". A red speech bubble labeled "Expand Parcel" points to the "Parcel" section. The "Parcel" section shows the following details:

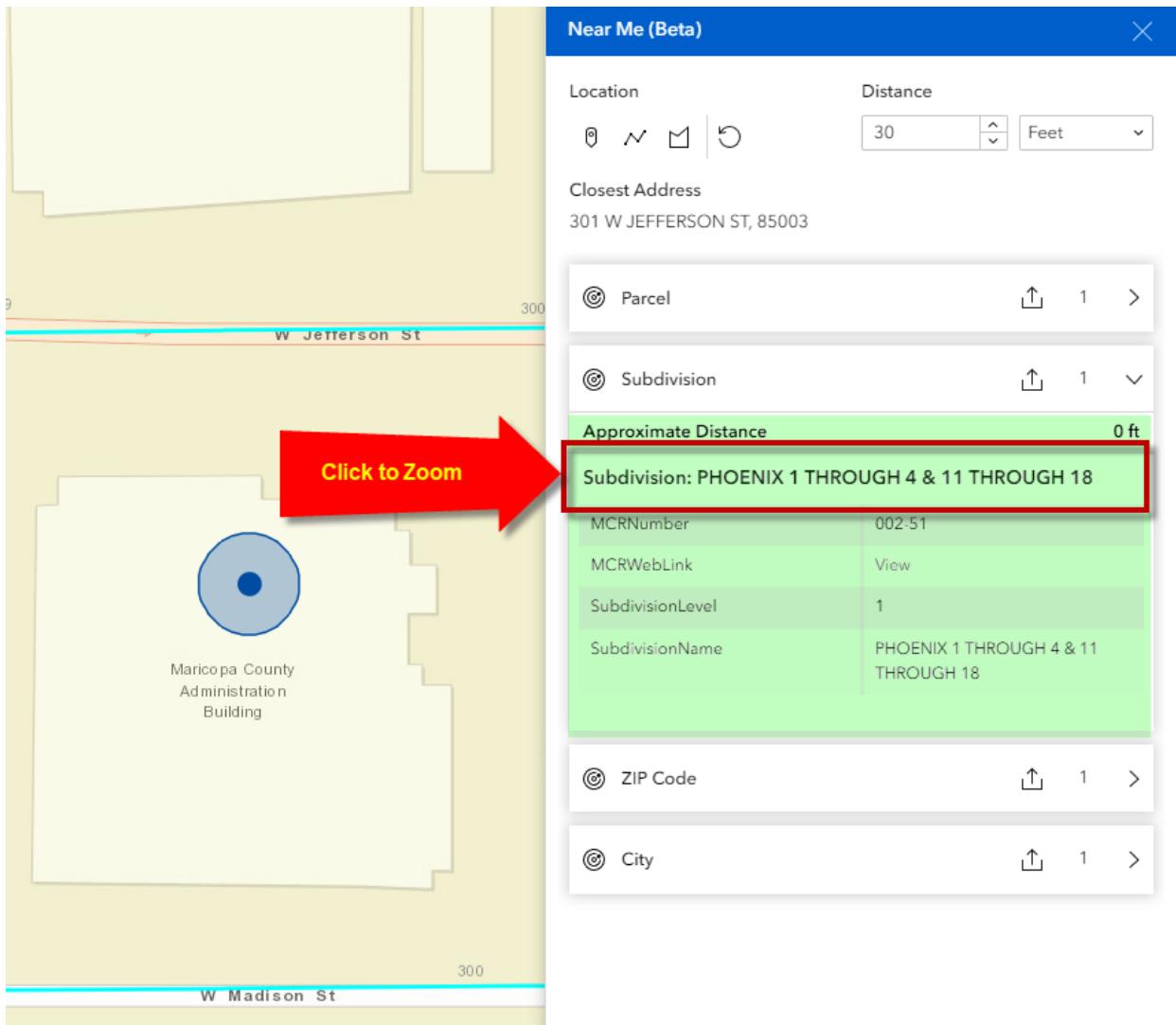
Parcel Number	112-19-038A
Address	301 W JEFFERSON ST
City	PHOENIX
Zip	85003
Owner Name	MARICOPA COUNTY OF
Zoning Code	DTC-BCORE
Assessor Web Link	<a href="#">View</a>
Treasurer Web Link	<a href="#">View</a>
Building Sketch Web Link	<a href="#">View</a>
Lot Size Sq.ft	89,832

Below the parcel details are sections for "Subdivision", "ZIP Code", and "City".

Expand Subdivision.

This Parcel is a part of Subdivision = **PHOENIX 1 THROUGH 4 & 11 THROUGH 18**

Click on this Subdivision Name to zoom to it.



The Subdivision boundary is highlighted in cyan.

**Subdivision**

**Phoenix**

**Near Me (Beta)**

Location Distance  
30 Feet

Closest Address: 301 W JEFFERSON ST, 85003

Parcel	1
Subdivision	1

Approximate Distance: 0 ft

**Subdivision: PHOENIX 1 THROUGH 4 & 11 THROUGH 18**

MCRNumber	002-51
MCRWebLink	<a href="#">View</a>
SubdivisionLevel	1
SubdivisionName	PHOENIX 1 THROUGH 4 & 11 THROUGH 18

ZIP Code

City

Expand ZIP Code.

The point you entered falls within ZIP Code **85003**.

Click to Zoom.

**ZIP Code 85003**

**Click to Zoom**

**Near Me (Beta)**

Location Distance

30 Feet

Closest Address  
301 W JEFFERSON ST, 85003

Parcel	1	>
Subdivision	1	>
ZIP Code	1	<
Approximate Distance	0 ft	
<b>ZIP Code: 85003</b>		
CommunityName	PHOENIX	
EditDate	April 24, 2023	
ZipCode	85003	
City	1	>

Expand City.

Your point falls within the **City of Phoenix**.

Click to Zoom.

The map displays the geographic boundaries of the City of Phoenix, which includes surrounding areas like Glendale, Peoria, and Scottsdale. A red callout bubble highlights the 'City of Phoenix' boundary. A red arrow labeled 'Click to Zoom' points to the map area. The right side shows a 'Near Me (Beta)' interface with the following details:

**Location**: 30 Feet

**Closest Address**: 301 W JEFFERSON ST, 85003

**Approximate Distance**: 0 ft

**City: PHOENIX**

CityName	PHOENIX
FullCityName	City of Phoenix

#### Summary:

Your point falls within Parcel 112-19-038A, which is a part of Subdivision PHOENIX 1 THROUGH 4 & 11 THROUGH 18, which is part of ZIP Code 85003, which is part of the City of Phoenix.

Note: The Near Me Widget will only report the nearest feature.

It will not report other features which may happen to fall within the search radius.

To understand this concept, click on the Parcel Number.

The map will zoom to Parcel 112-19-038A

A screenshot of a web-based mapping application. On the left is a map showing several buildings and streets. One building, the "Maricopa County Administration Building", is highlighted with a cyan border and a blue circular icon indicating it is the nearest feature. A large red arrow points from the text "Click to Zoom" towards this building. A red callout bubble also points to the same building with the text "Parcel 112-19-038A". On the right is a modal window titled "Near Me (Beta)". It has a "Location" section with a map icon, a "Distance" section set to 30 Feet, and a "Closest Address" section showing "301 W JEFFERSON ST, 85003". Below this is a table with the following data:

Parcel	1
Approximate Distance	0 ft
Parcel Number: 112-19-038A	
Parcel Number	112-19-038A
Address	301 W JEFFERSON ST
City	PHOENIX
Zip	85003
Owner Name	MARICOPA COUNTY OF
Zoning Code	DTC-BCORE
Assessor Web Link	<a href="#">View</a>
Treasurer Web Link	<a href="#">View</a>
Building Sketch Web Link	<a href="#">View</a>
Lot Size Sq.ft	89,832

Notice that the search radius is **30 feet**.

Turn on the Parcel Layer.

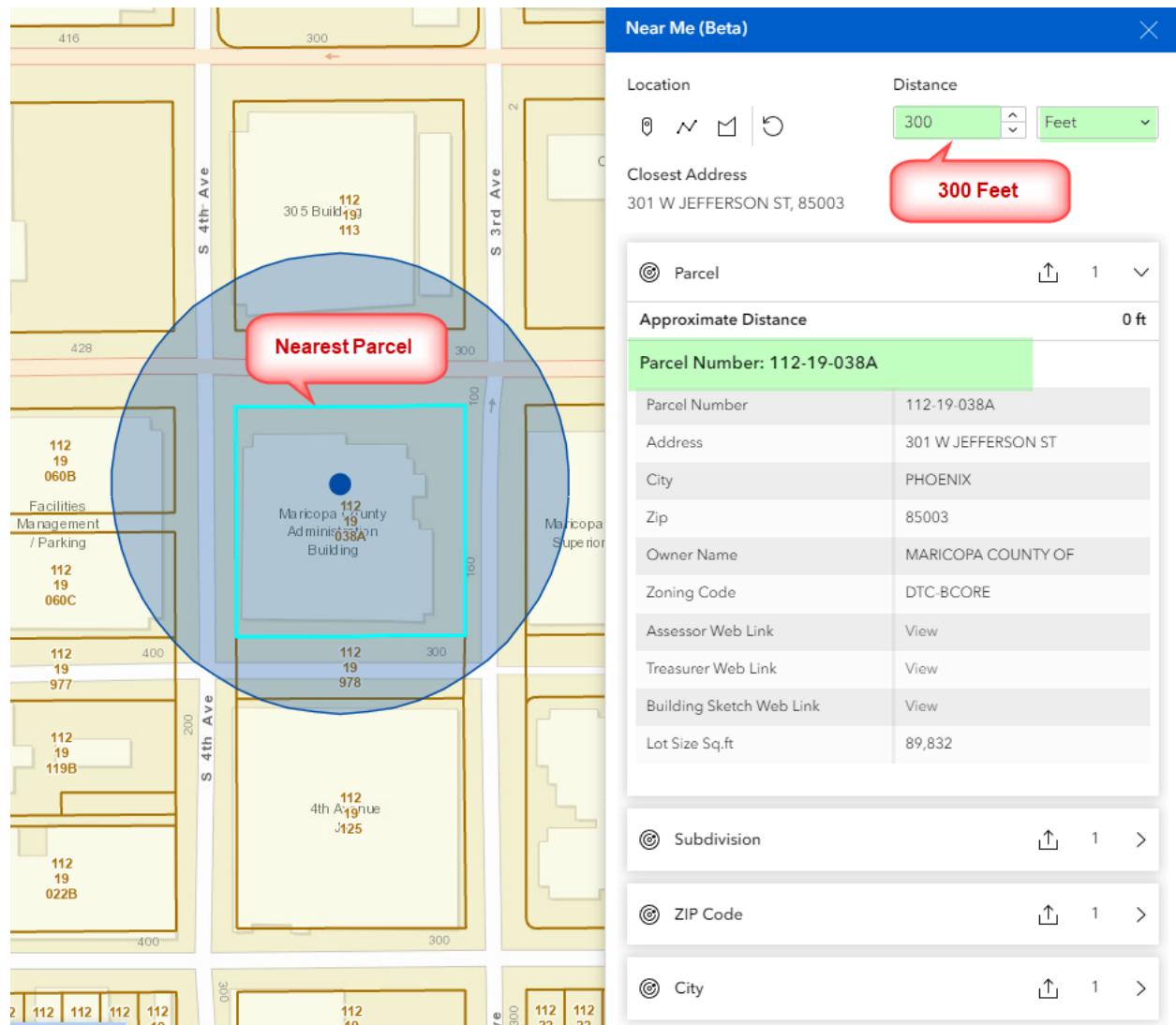
Expand the search radius to 300 feet.

The blue buffer expands to 300 feet around your input point.

There are many parcels that fall within this buffer zone.

However, the Near Me Widget will only report the **closest parcel** found, which is 112-19-038A.

It will ignore the other parcels that are within 300 feet of your input point.



If you want to find all parcels that fall within 300 feet of your input point, you will have to use the **Spatial Search** function within the **Query Widget** that you will learn about later.

## Basemap Gallery Widget

Turn off All Layers in the Map Layers Widget.

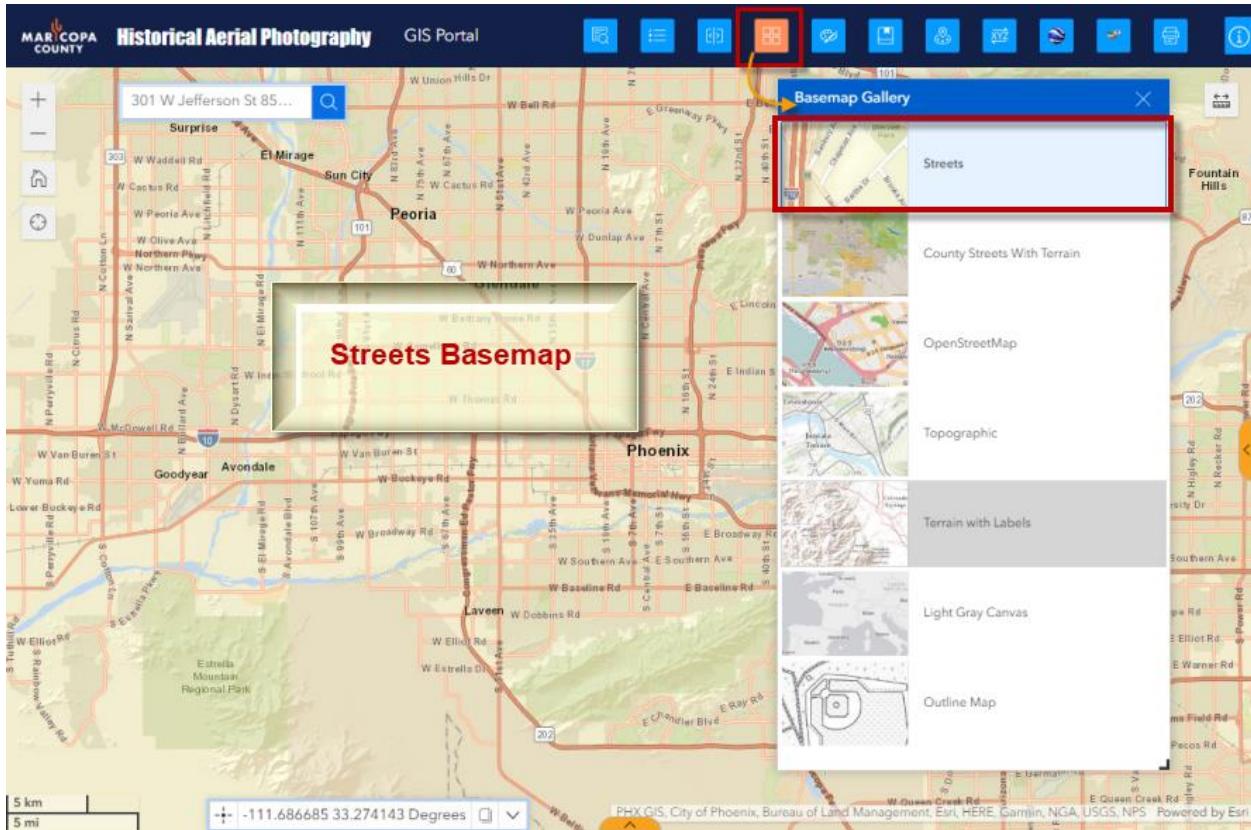
The screenshot shows the Maricopa County Historical Aerial Photography GIS Portal. On the left is a map of the Phoenix metropolitan area, including cities like Peoria, Glendale, Phoenix, Tempe, and Scottsdale. On the right is a list of map layers. A large red arrow points from the text "Turn off All Layers" to the first item in the list, "County".

Turn off All Layers

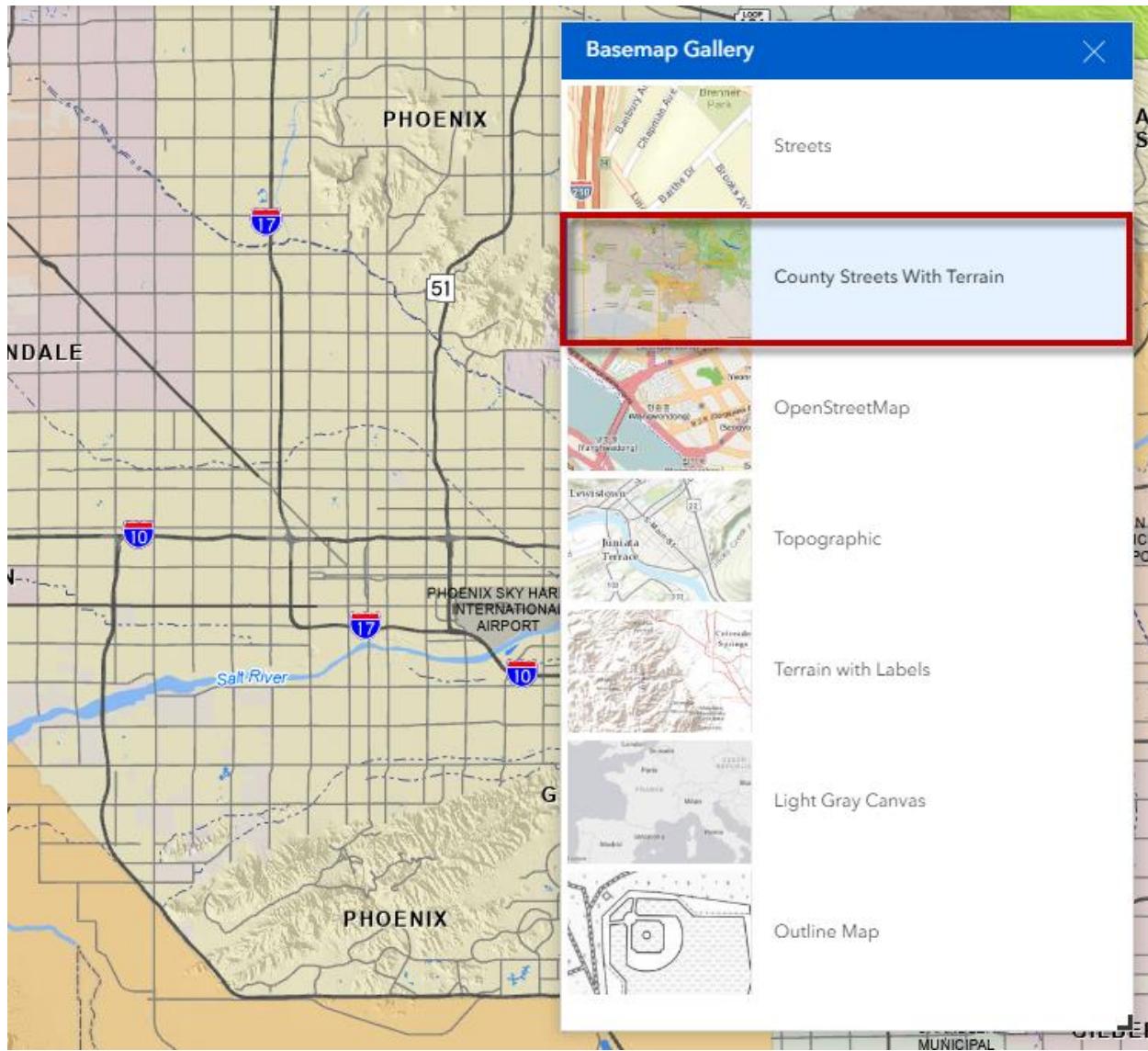
- County
- Terrain (NAVD88)
- Parcel (Current)
- Zip Code
- City
- Township Range Section
- Street
- 2022 Sep - 2022 Oct
- 2021 Sep - 2021 Nov
- 2020 Oct - 2020 Nov
- 2019 Sep - 2019 Dec
- 2018 Sep - 2018 Dec
- 2017 Sep - 2017 Nov
- 2016 Sep - 2016 Dec
- 2015 Nov - 2016 Feb
- 2014 Sep - 2014 Nov
- 2013 Sep - 2013 Nov

Open the Basemap Gallery Widget.

You are viewing the Streets Basemap.

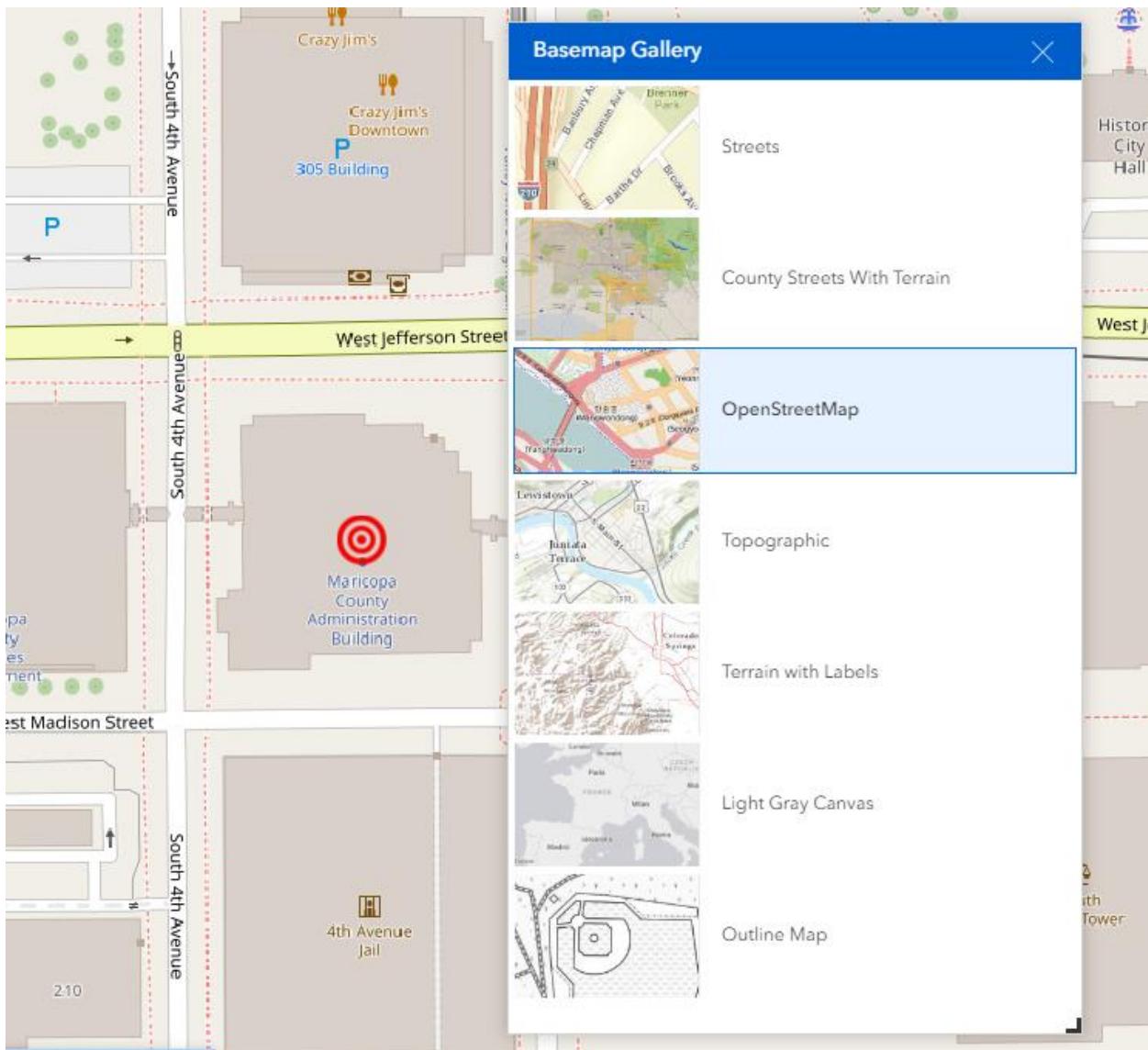


Open the County Streets with Terrain Basemap.

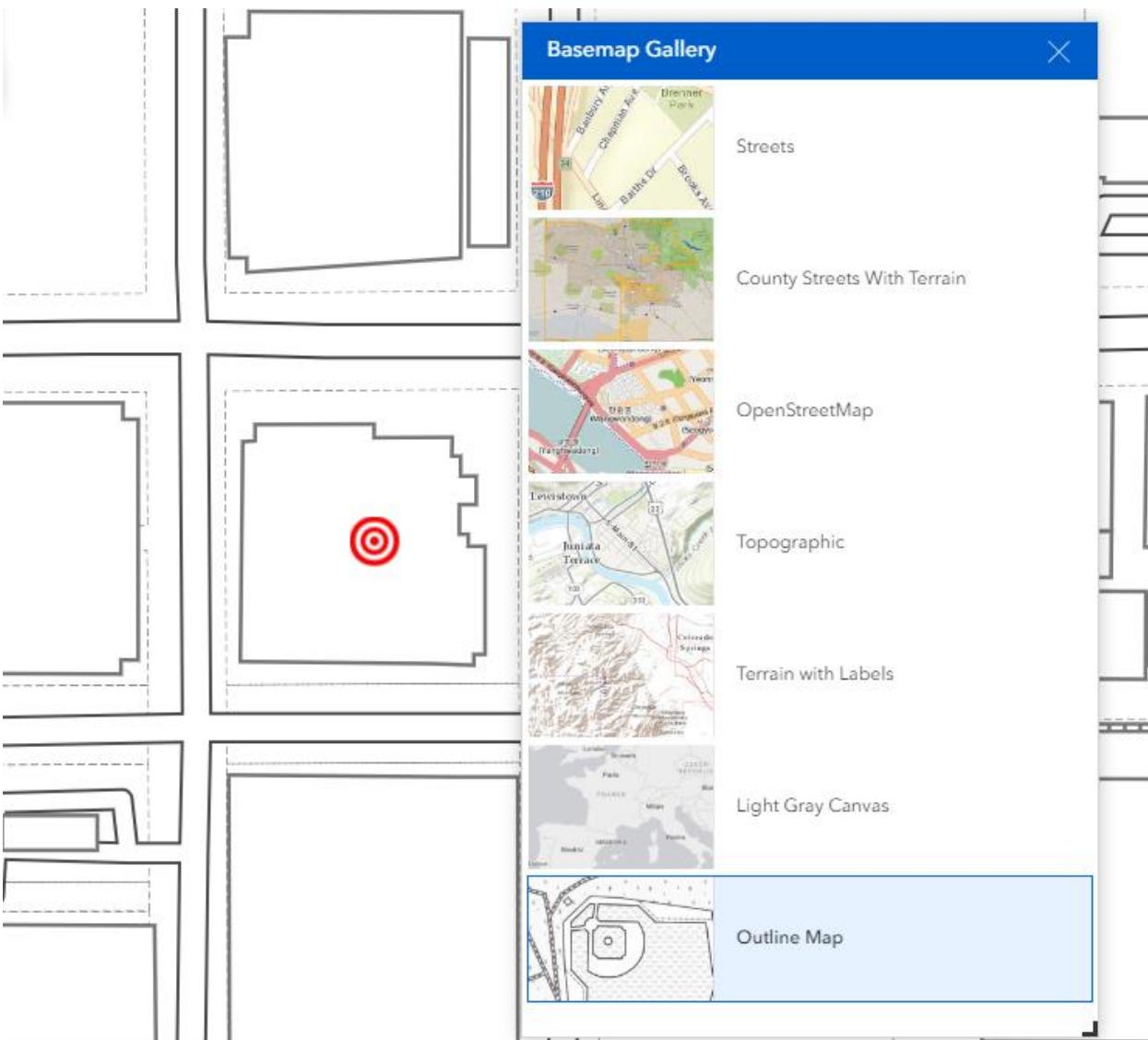


Zoom to the Street Address = 301 W JEFFERSON ST, 85003

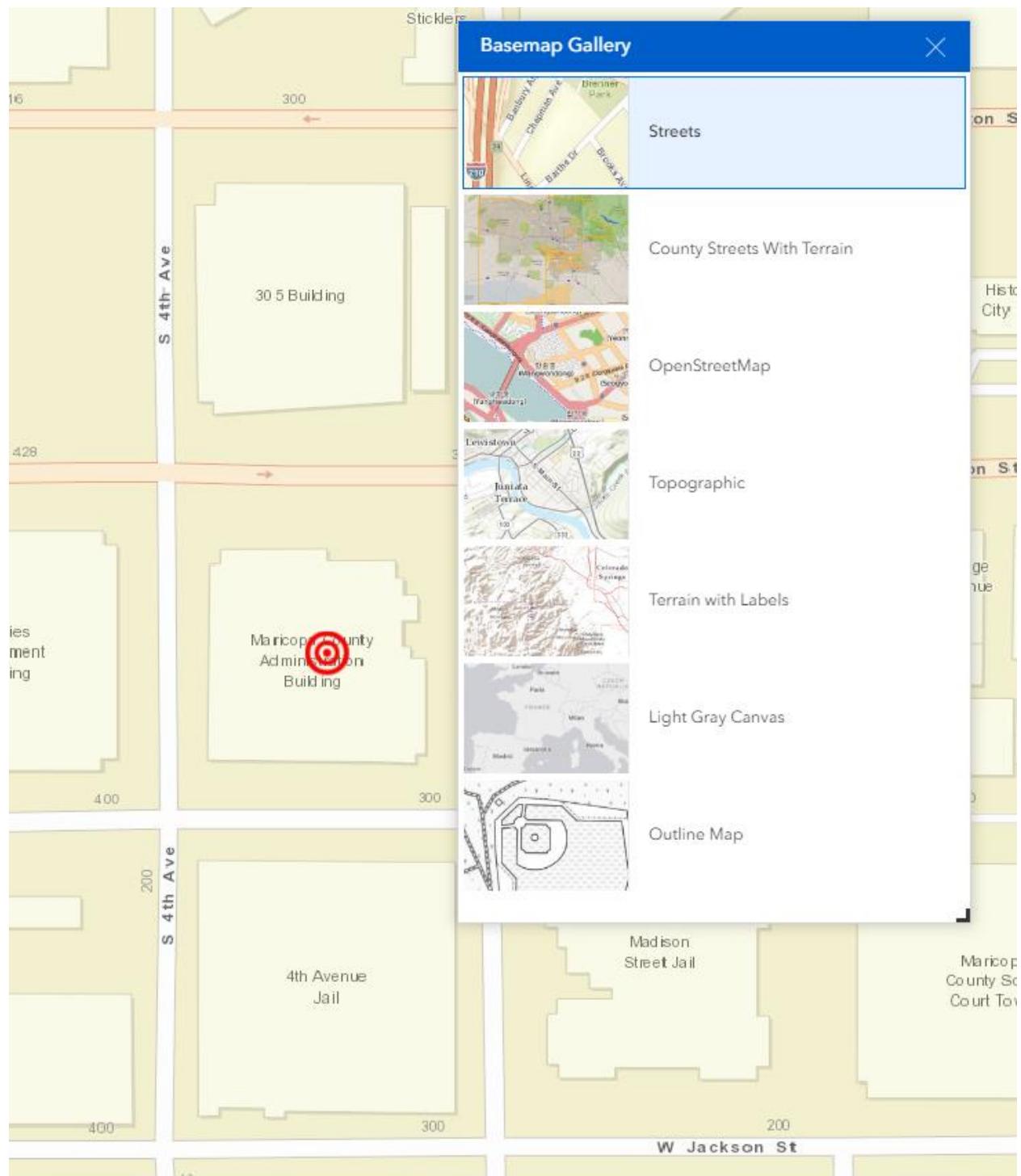
Switch to the Open Street Map.



Switch to the **Outline Map**.

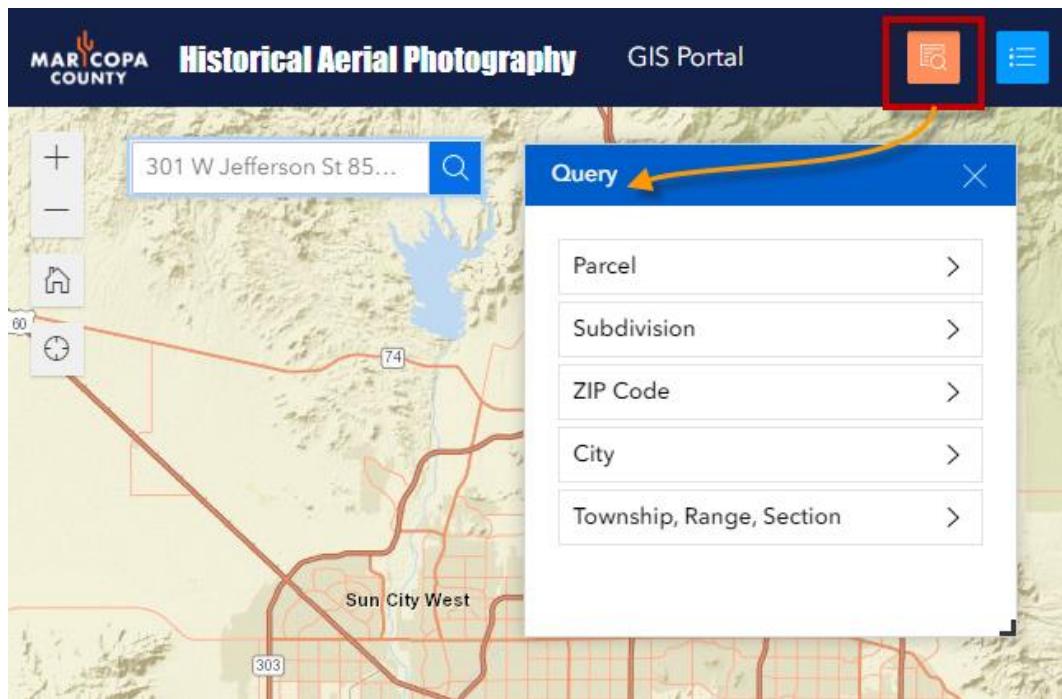


Go back to the [Streets Basemap](#).



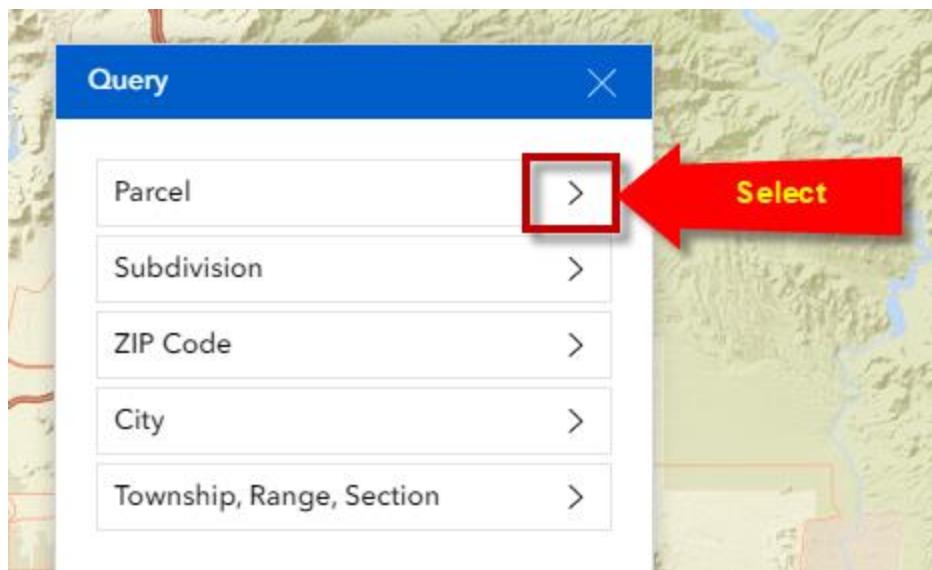
## Query Widget

Open the Query Widget.

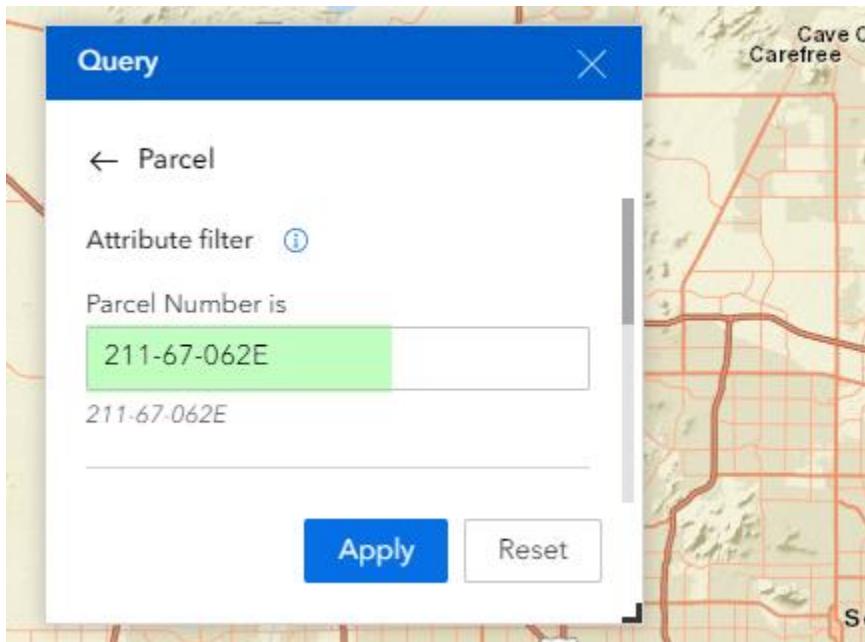


You can zoom to any Parcel, Subdivision, ZIP Code, City or Township and run Spatial Queries.

### Using the Parcel Query



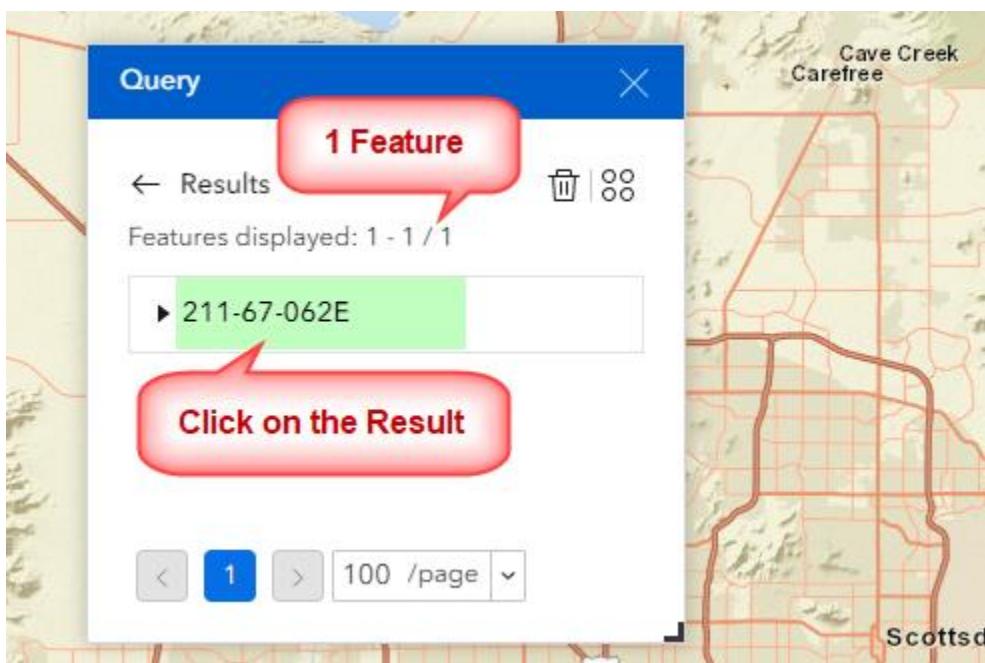
Enter Parcel Number 211-67-062E



Press **Apply**

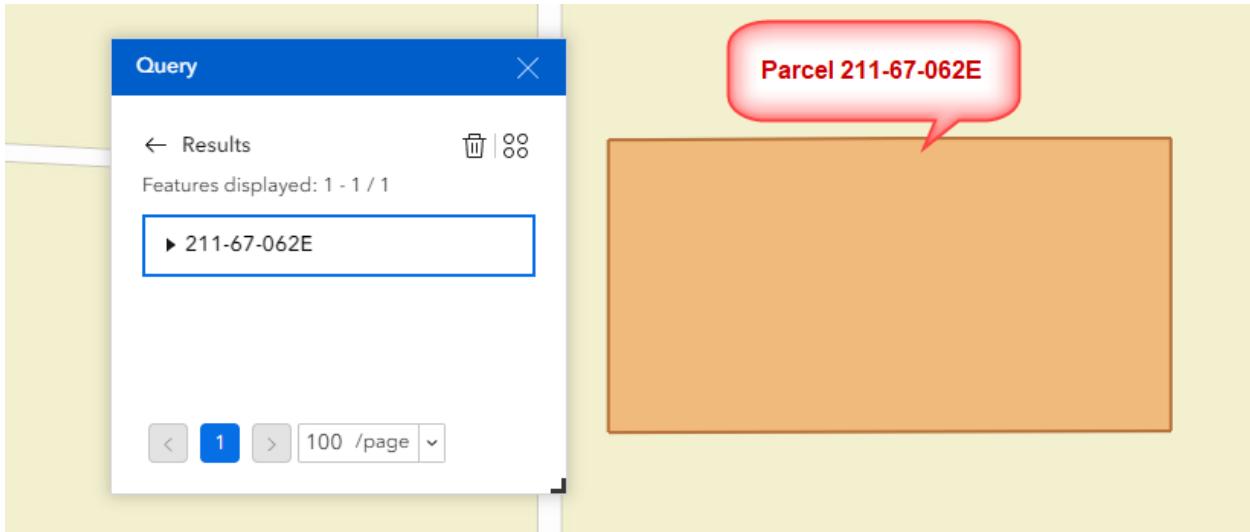
1 parcel is found.

Click on the Result to zoom to this Parcel.

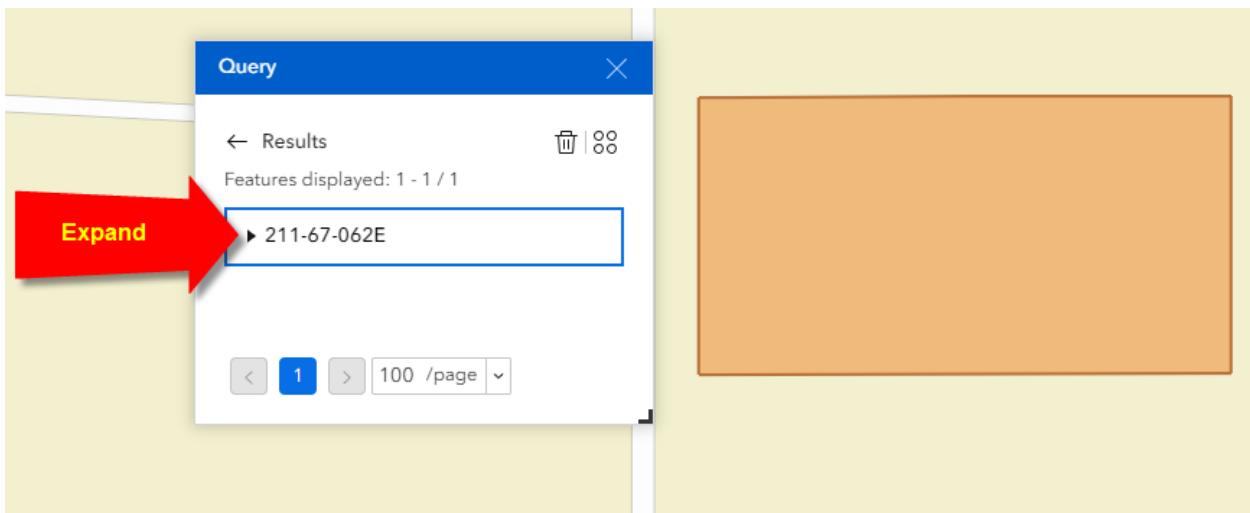


The map zooms to Parcel 211-67-062E.

It is highlighted in orange.



Expand the Arrow to view the Parcel Attributes.



These are your Parcel Attributes.

Query X

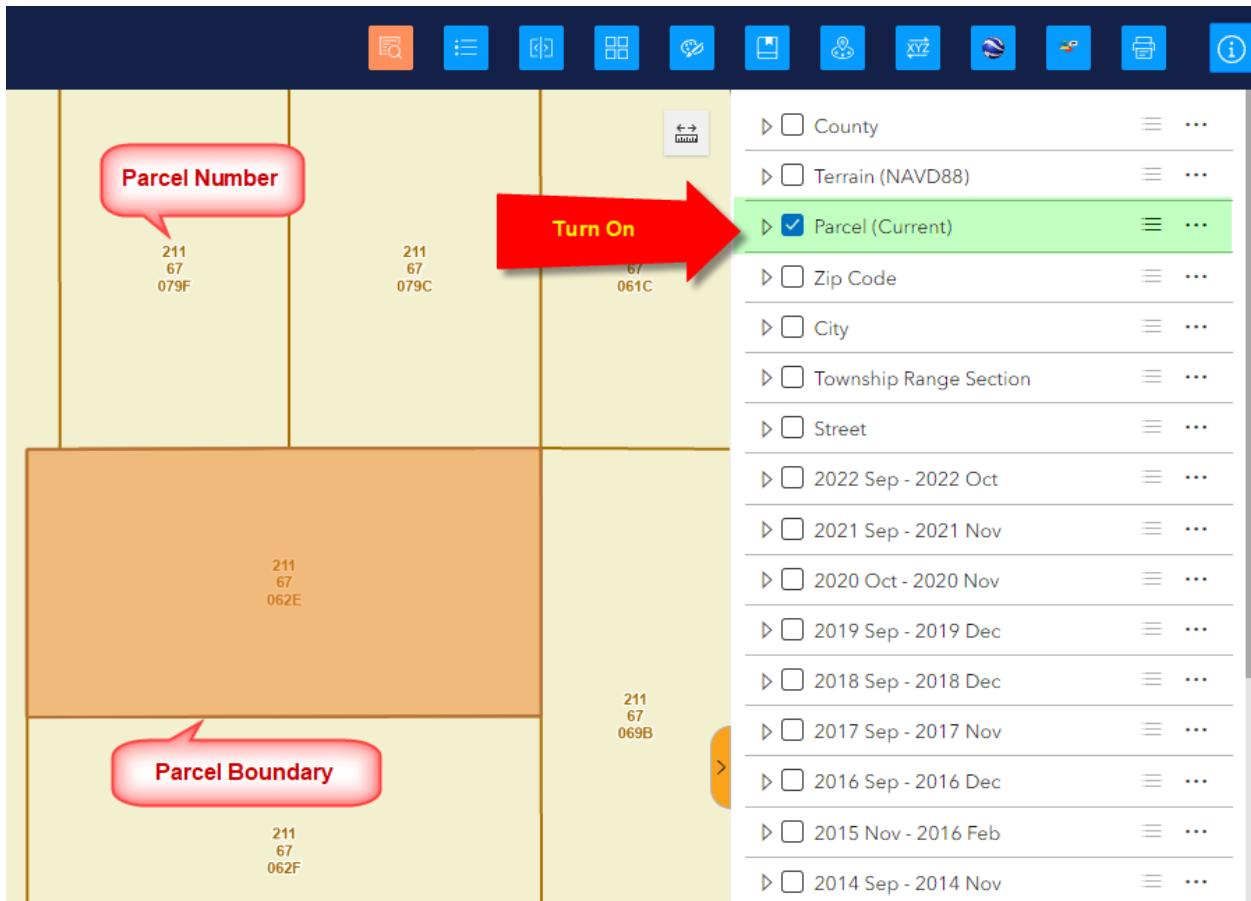
**Expanded** 1 / 1

211-67-062E	
Parcel Number	211-67-062E
Address	36317 N 24TH ST
City	PHOENIX
Zip	85086
Owner Name	STAUFFER STEVEN T/LESLIE A
Zoning Code	RU-43
SubdivisionName	
MCRNumber	
MCRWebLink	
DeedDate	5/15/2022, 5:00 PM
DeedNumber	20220422576
DeedWebLink	<a href="#">View</a>
SaleDate	4/30/2022, 5:00 PM
SalePrice	890,000.00
SaleAffidavitWebLink	<a href="#">View</a>
Assessor Web Link	<a href="#">View</a>
Treasurer Web Link	<a href="#">View</a>
Building Sketch Web Link	<a href="#">View</a>
Lot Size Sq.ft	46,814
LotSize_Acre	1.07

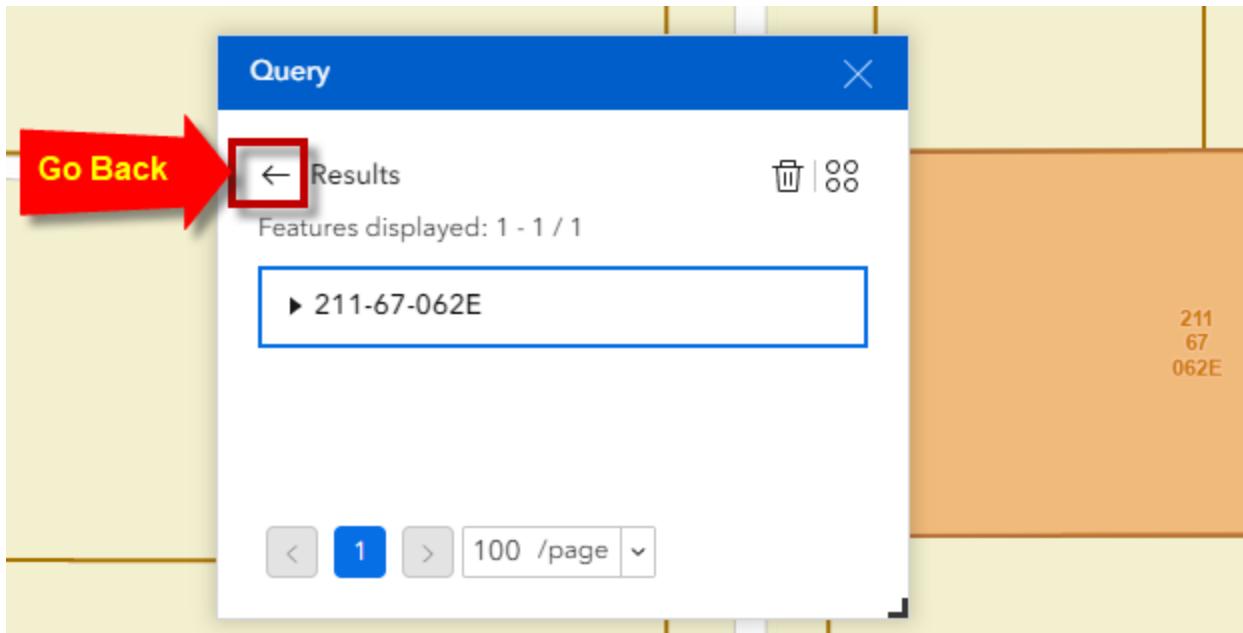
< 1 > 100 /page ▼

Turn on the Parcel Layer.

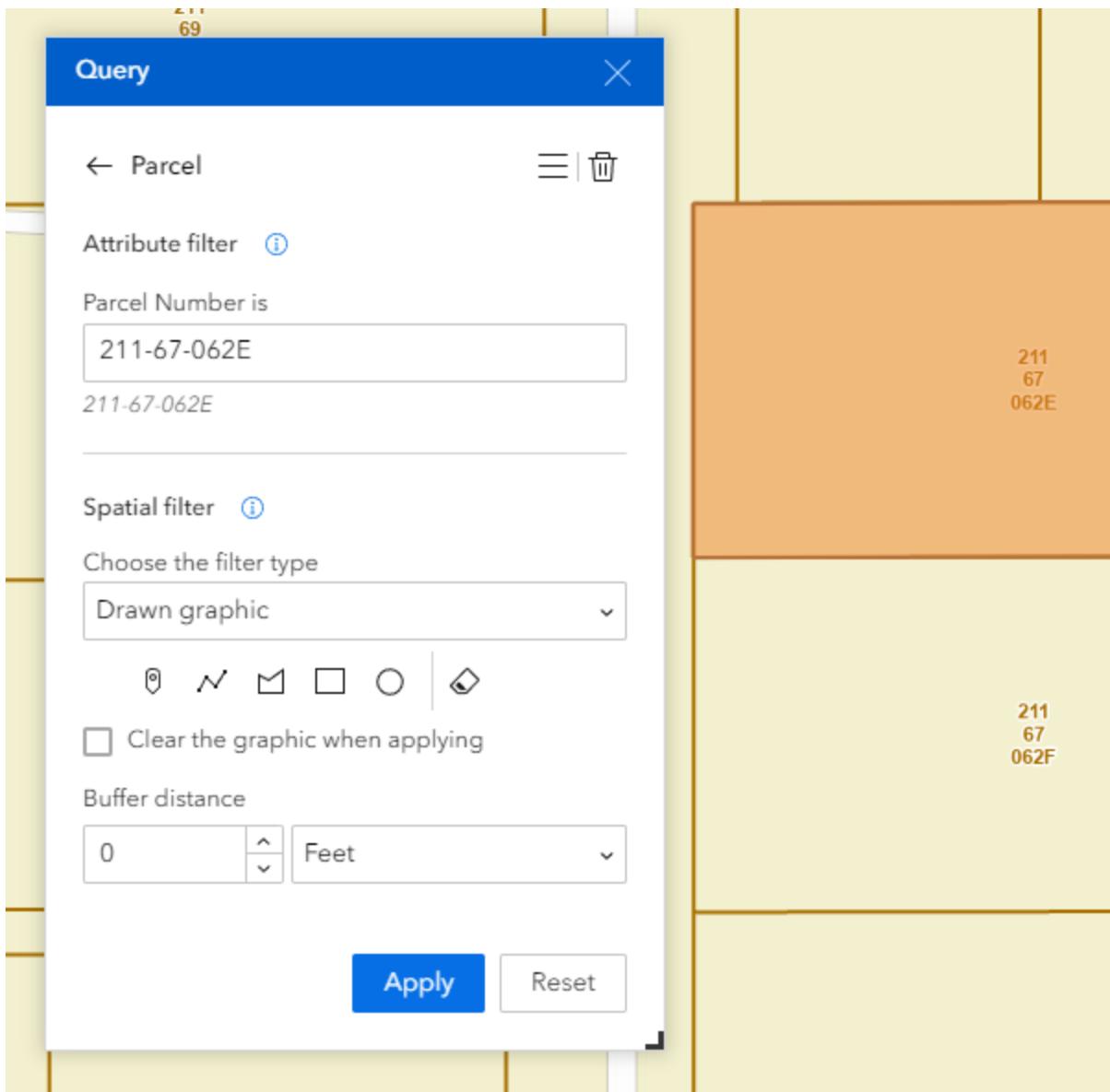
You will see the Parcel Numbers and Parcel Boundaries.



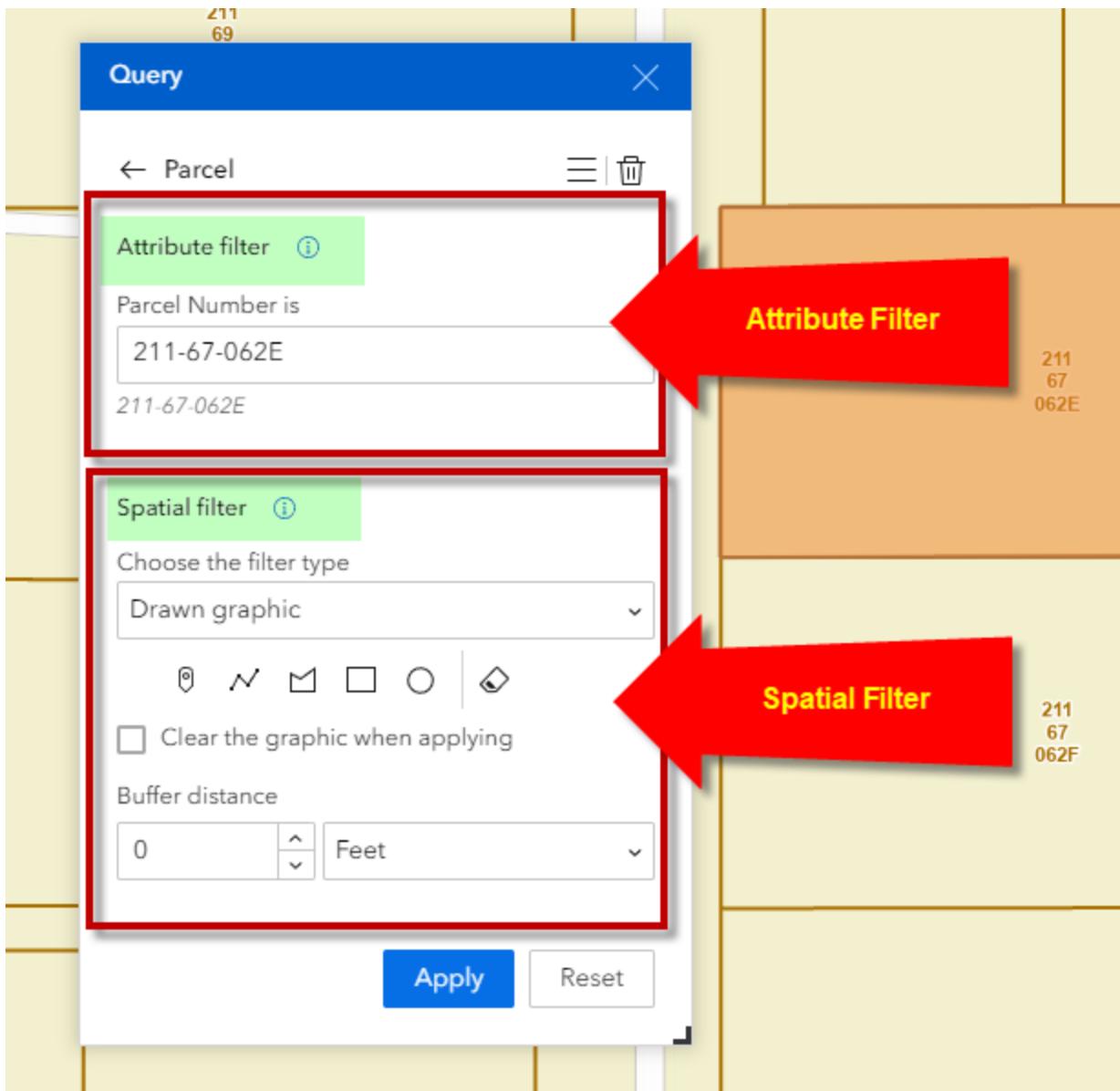
Go Back.



Expand the Query Widget.



You have the option to apply an **Attribute Filter** and a **Spatial Filter**.



Note: Both filters are always active unless you intentionally disable one.

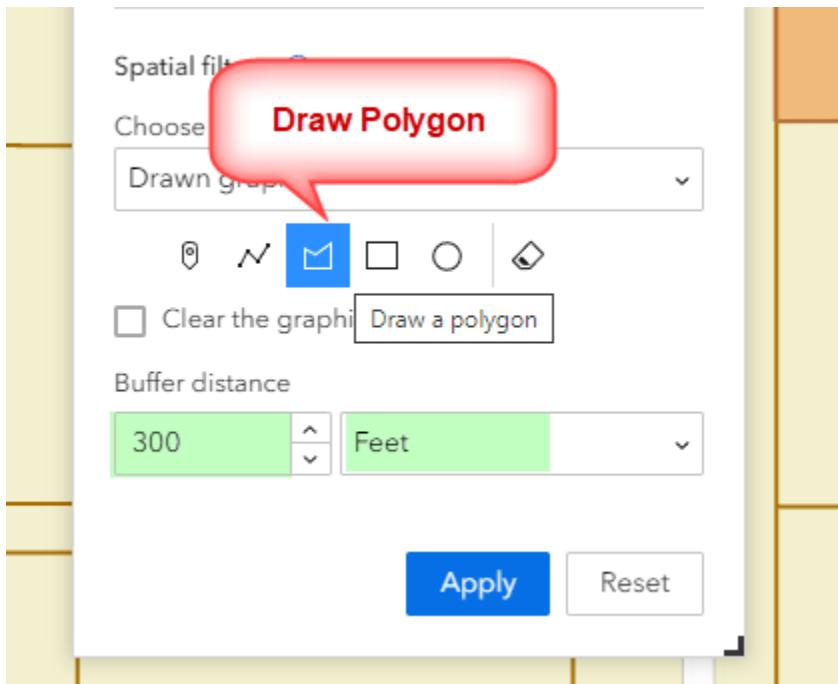
You have already applied an Attribute Filter to get to Parcel 211-67-062E.

### Example-2:

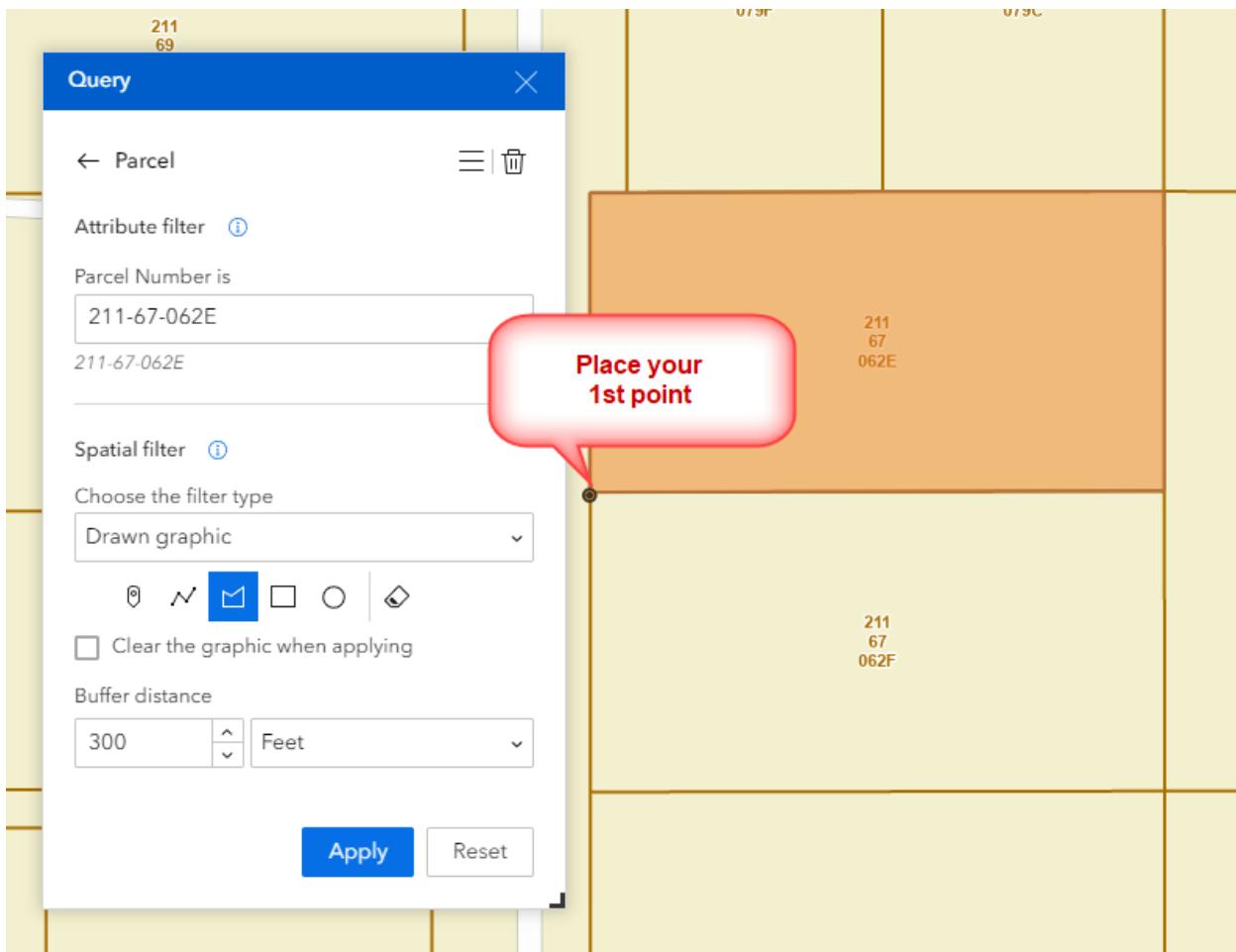
You are going to find all Parcels that fall within 300 feet of this parcel.

Set a Buffer Distance of **300 feet**.

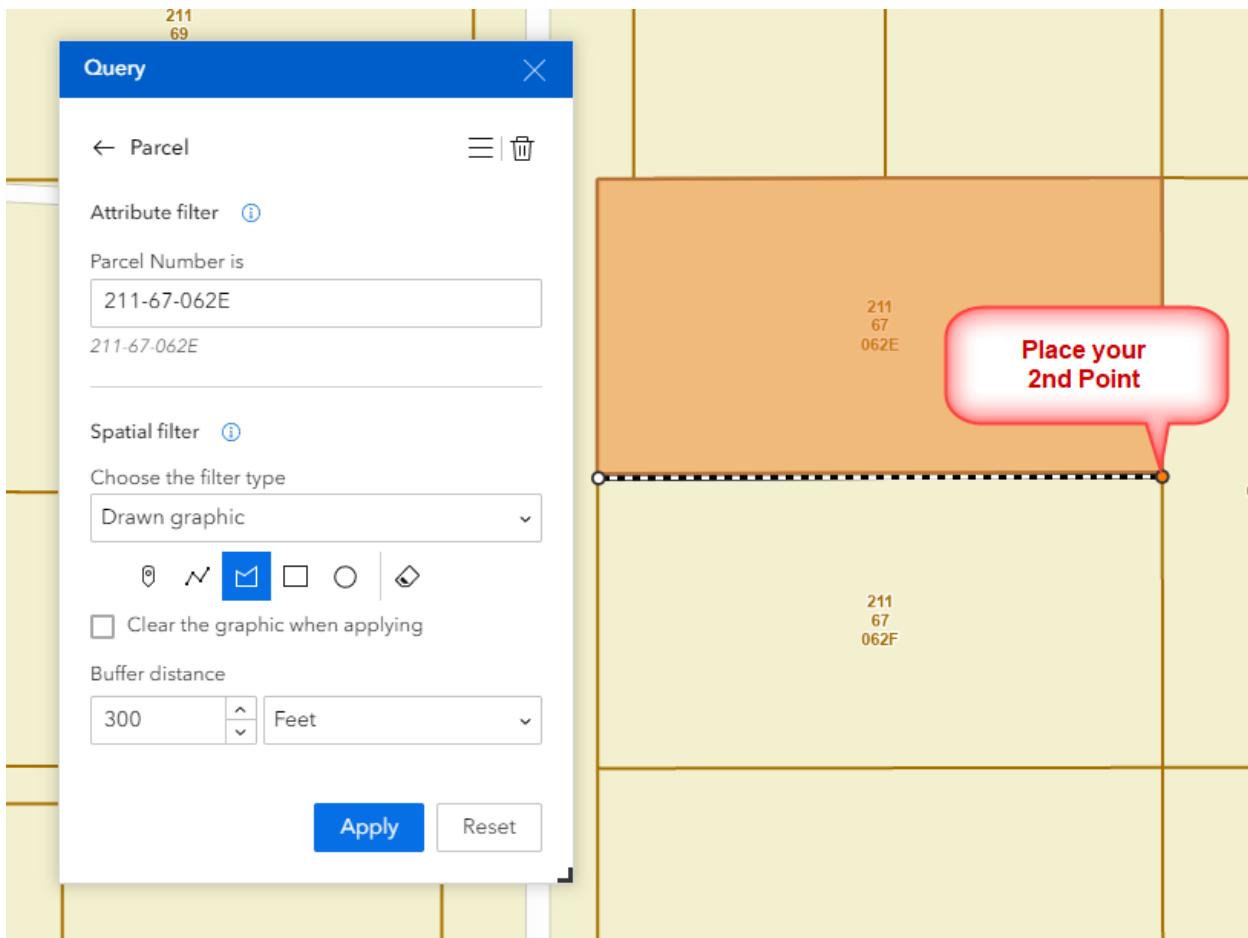
Select the **Draw Polygon Tool**.



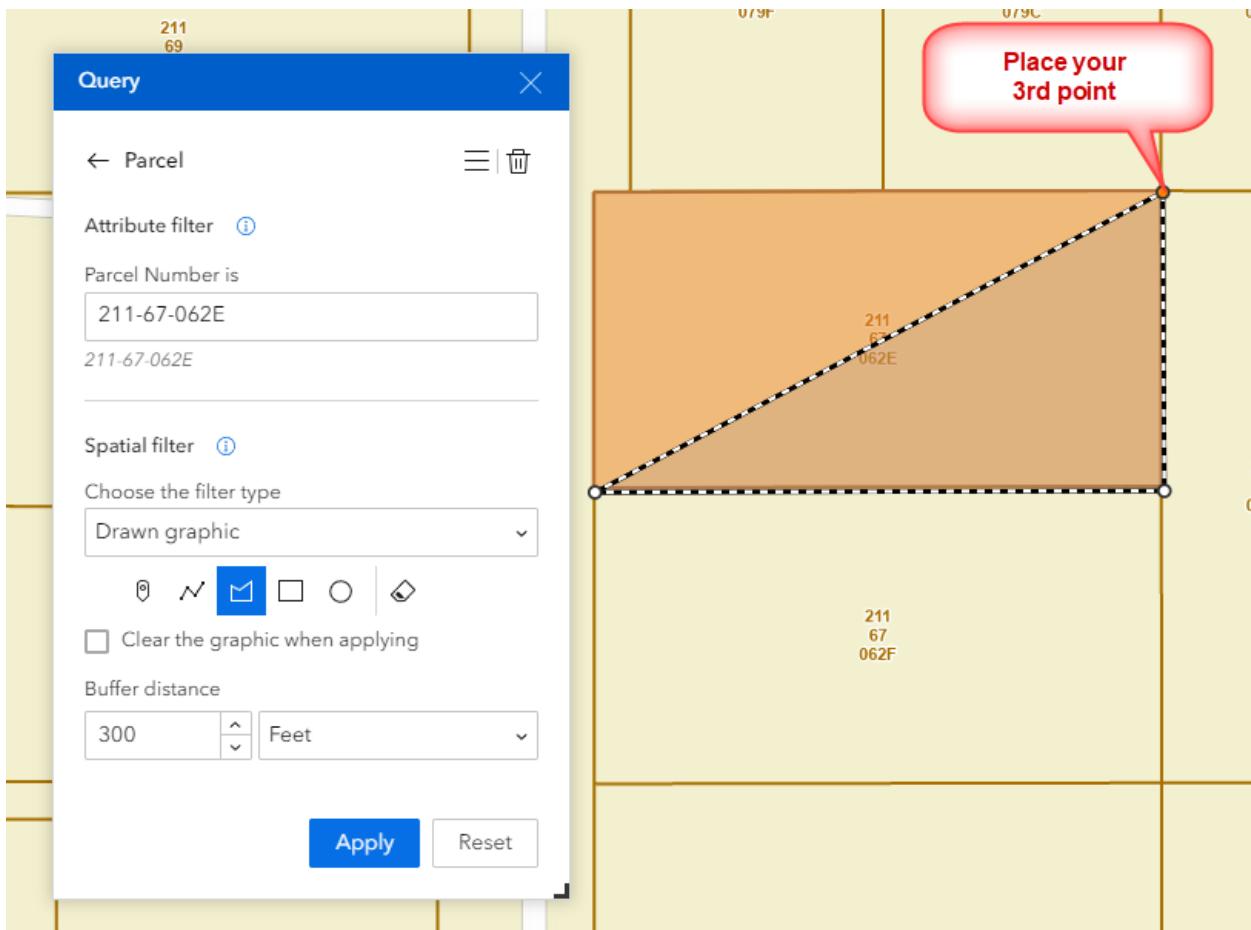
Place your first point on the corner of the parcel.



Place your 2<sup>nd</sup> point on the next corner of your parcel.

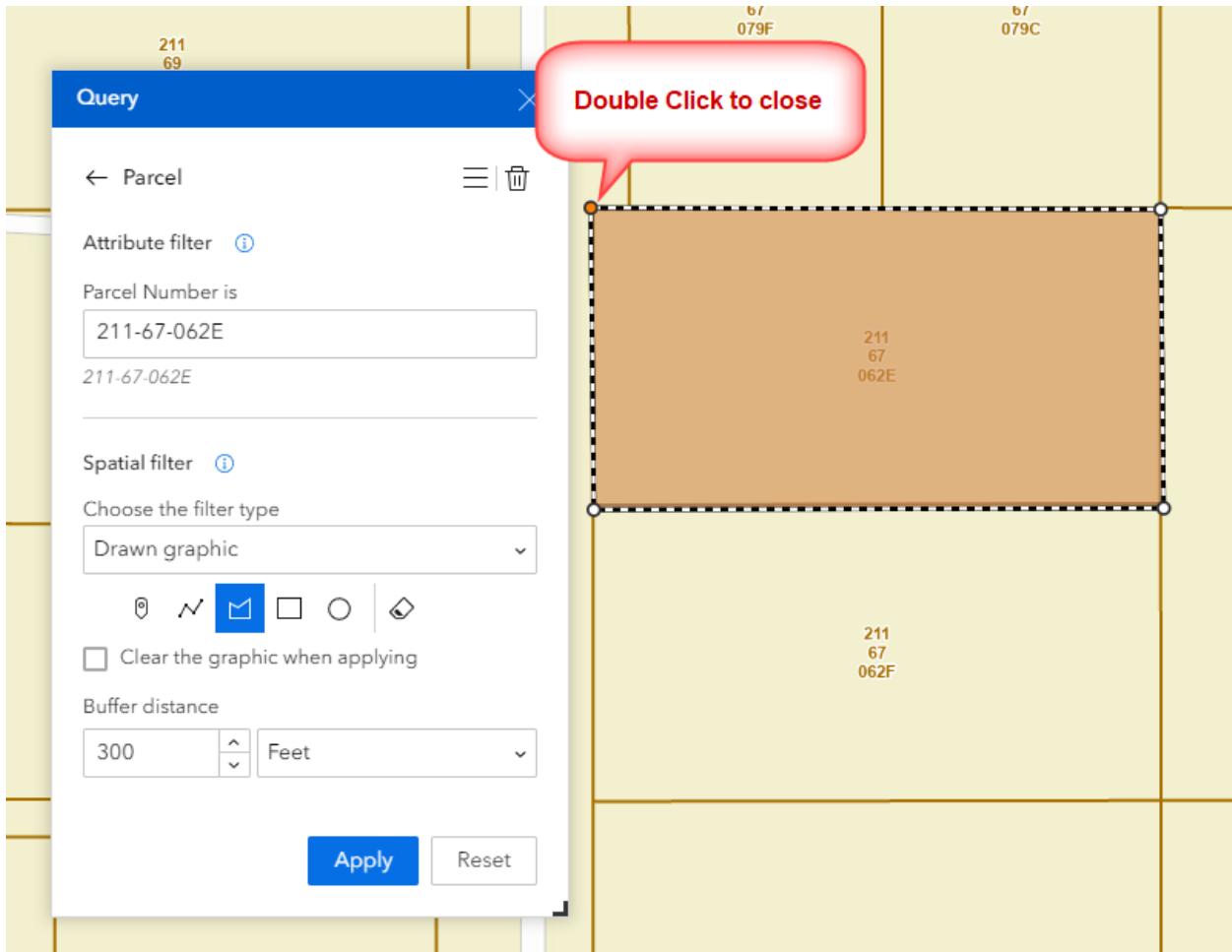


Place your 3<sup>rd</sup> point on the next corner of your parcel.

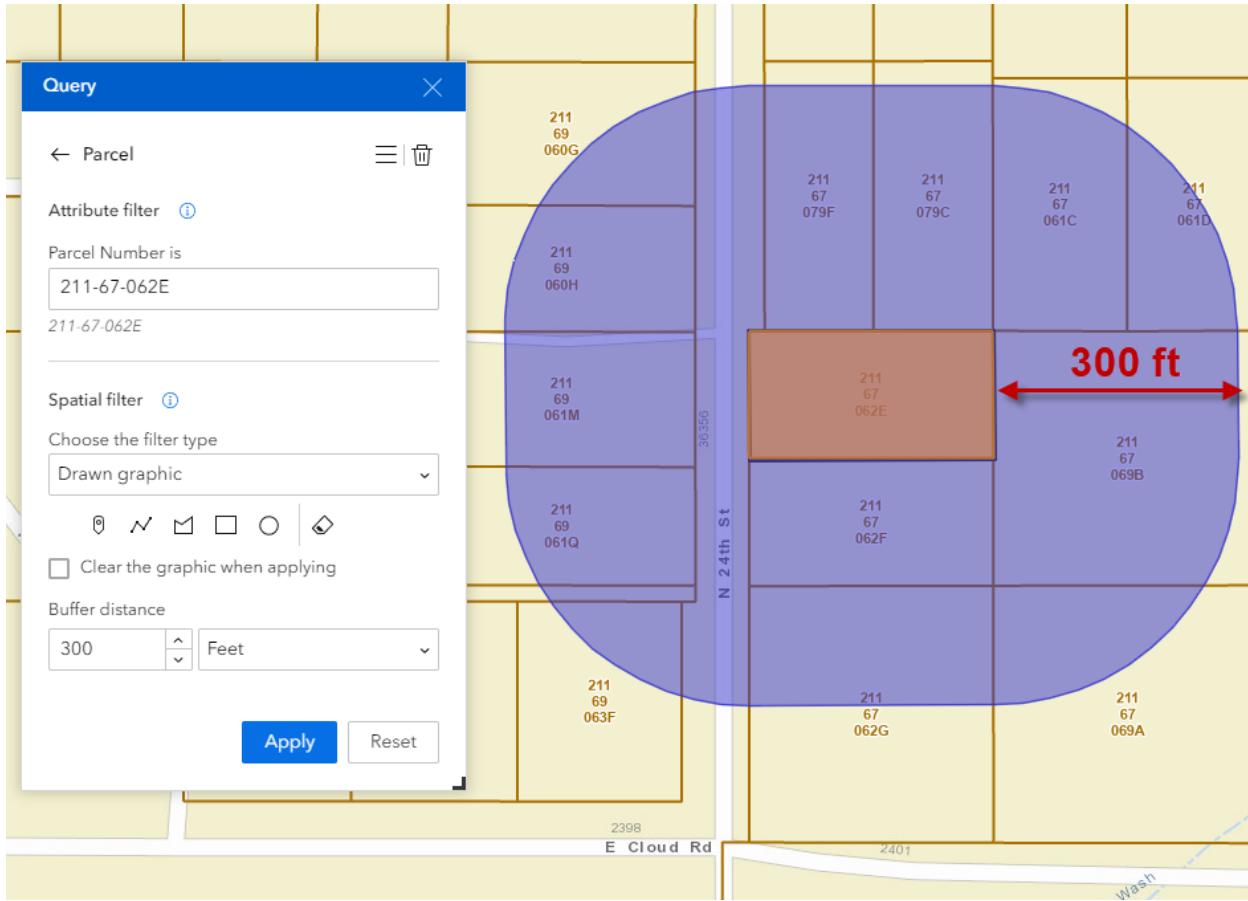


Move your mouse to the 4<sup>th</sup> corner.

Double click to close the polygon.

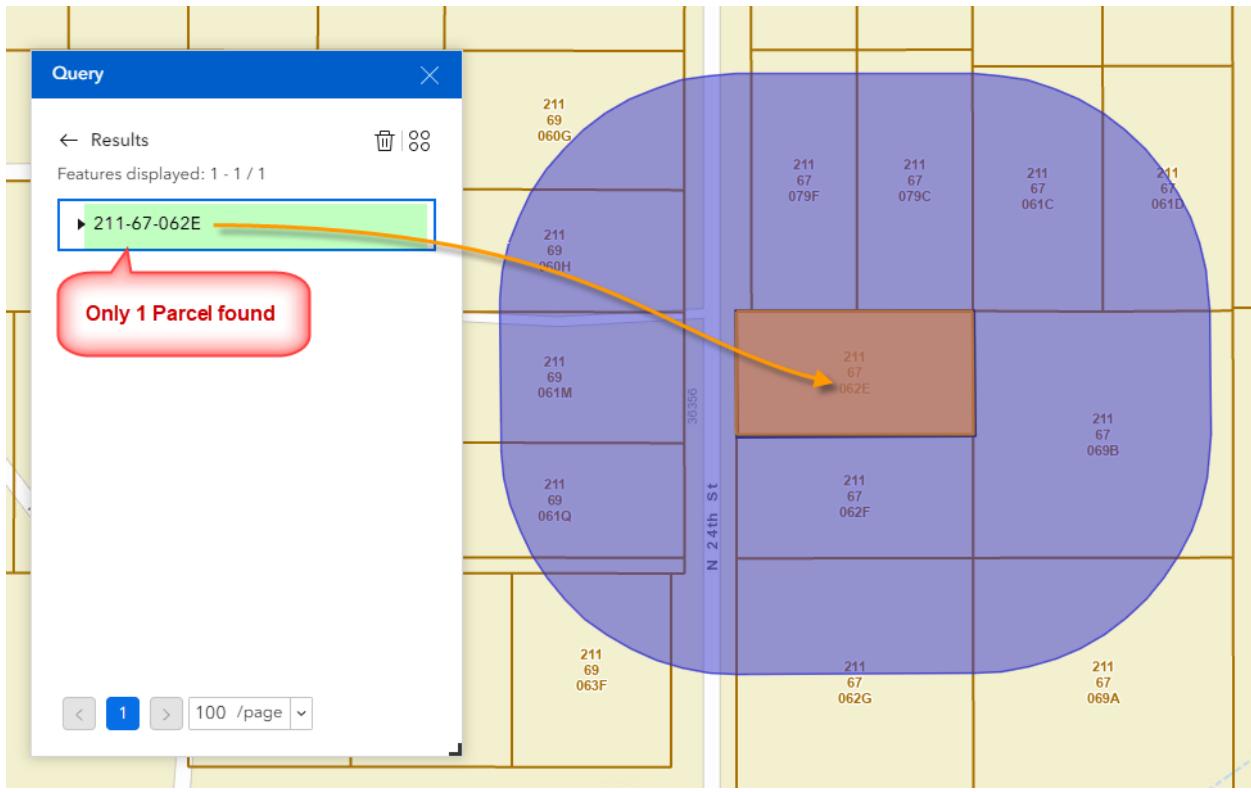


A 300 feet purple buffer is drawn around your parcel.



Press **Apply**

Notice only 1 parcel is found!

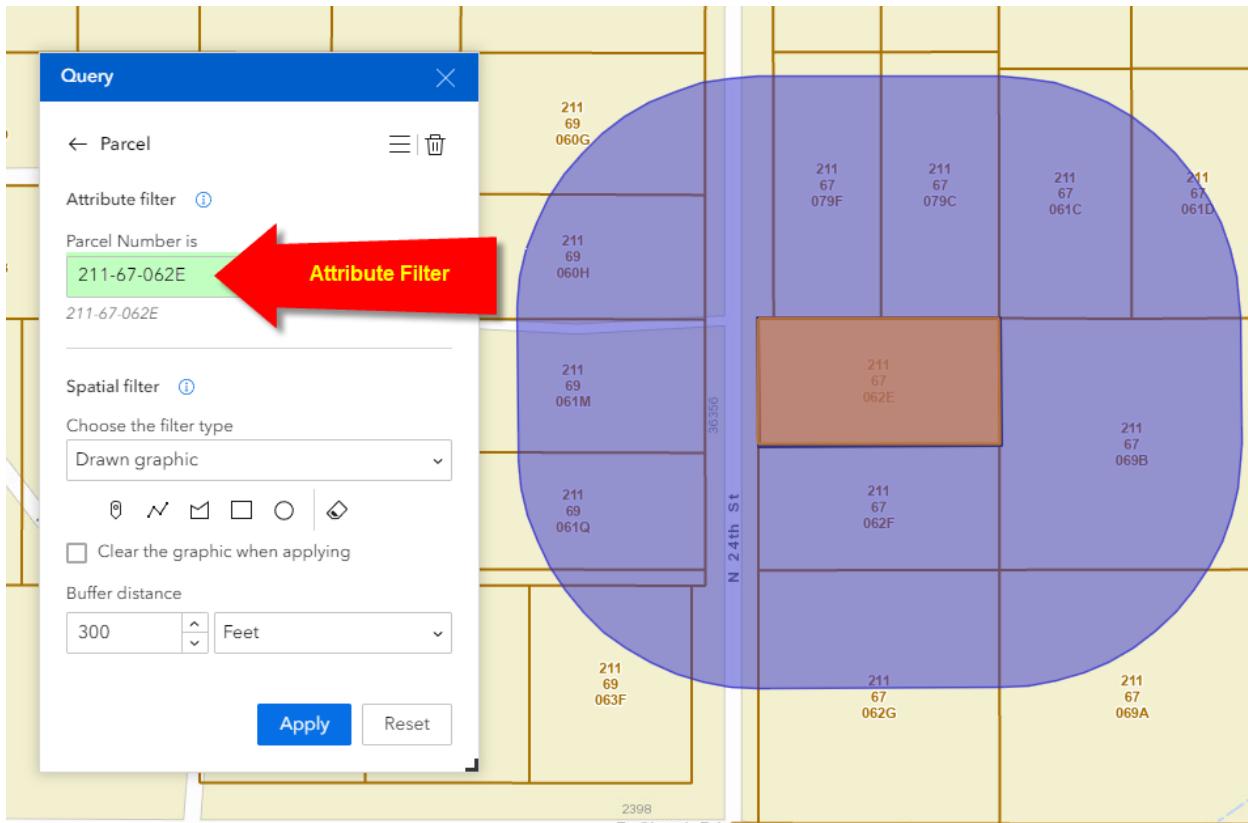


You were probably expecting to see a lot more.

What happened?

Go back.

Notice that you have both the Attribute Filter and Spatial Filter engaged.

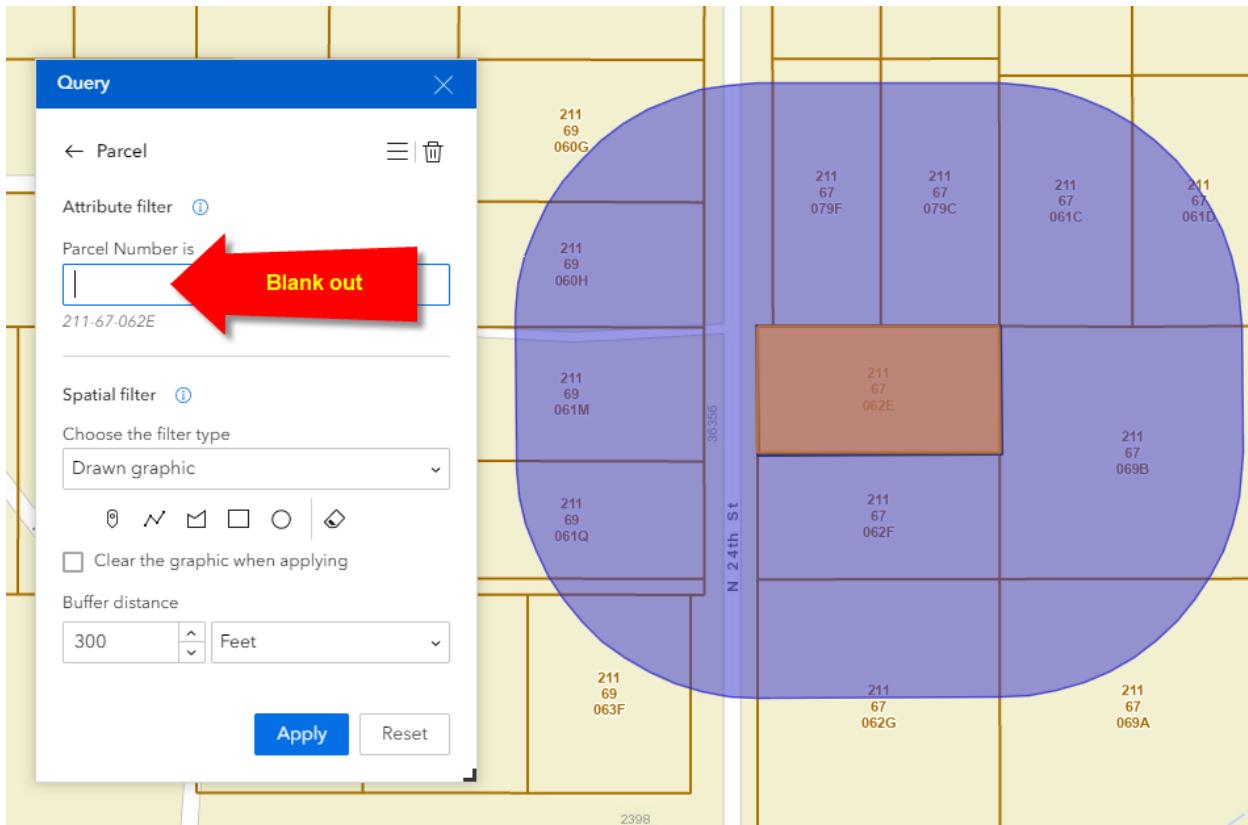


The Query Tool is trying to find all parcels that intersects the purple buffer AND parcel number = 211-67-062E.

The logical answer is one parcel where Parcel Number = 211-67-062E.

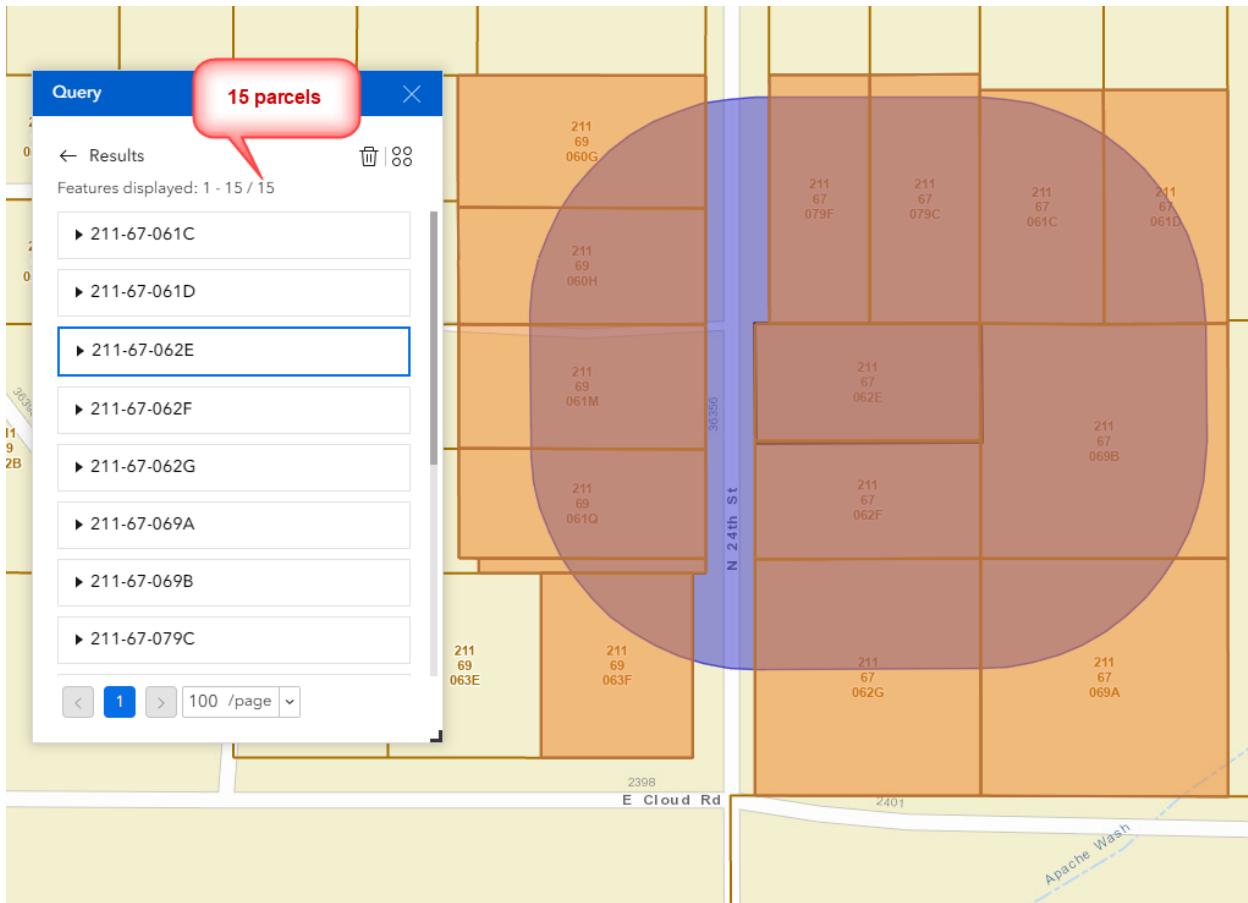
To get to your desired result, you must always remember to blank out the Attribute Filter before running a Spatial Filter.

Blank out the Attribute Filter.

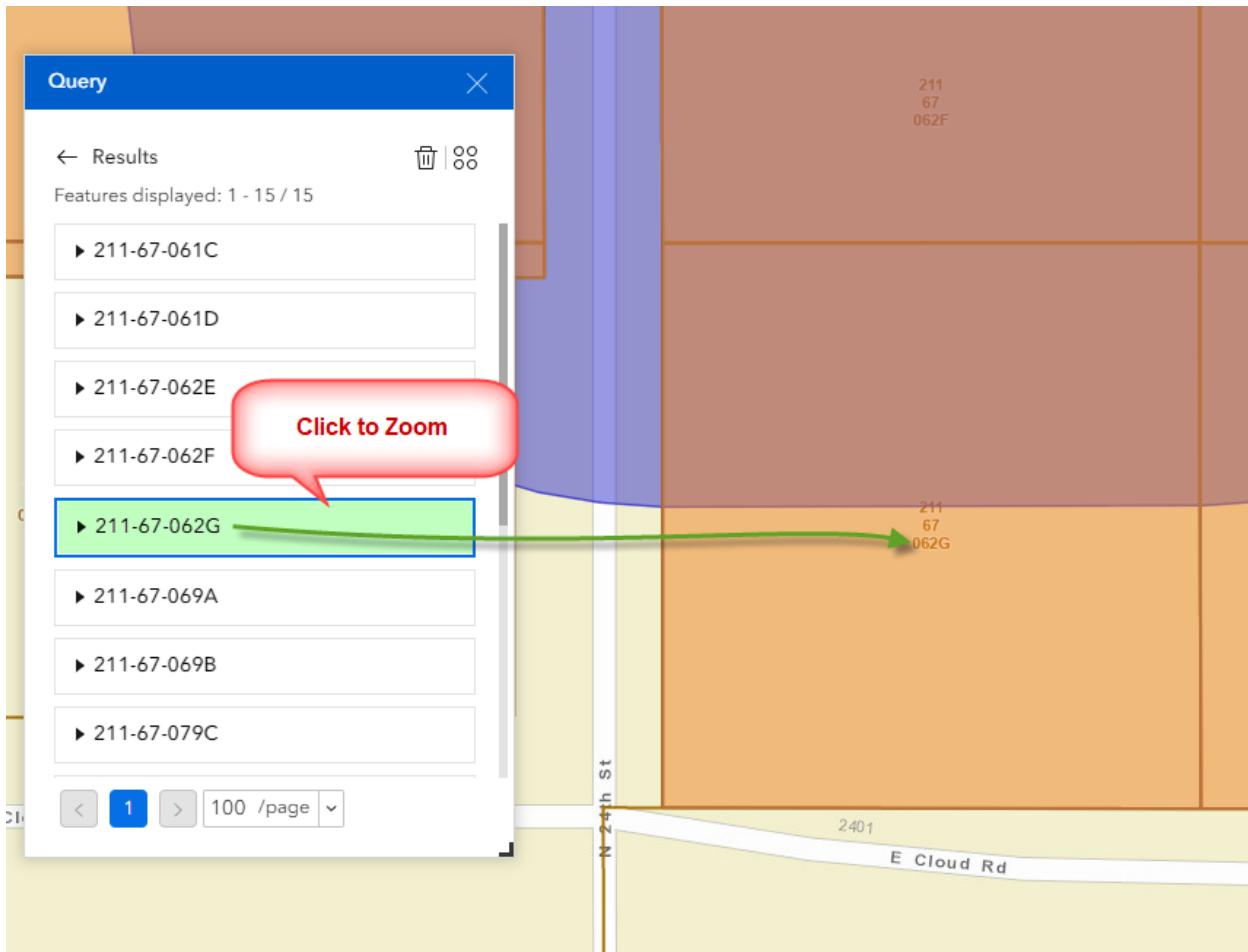


Press **Apply**

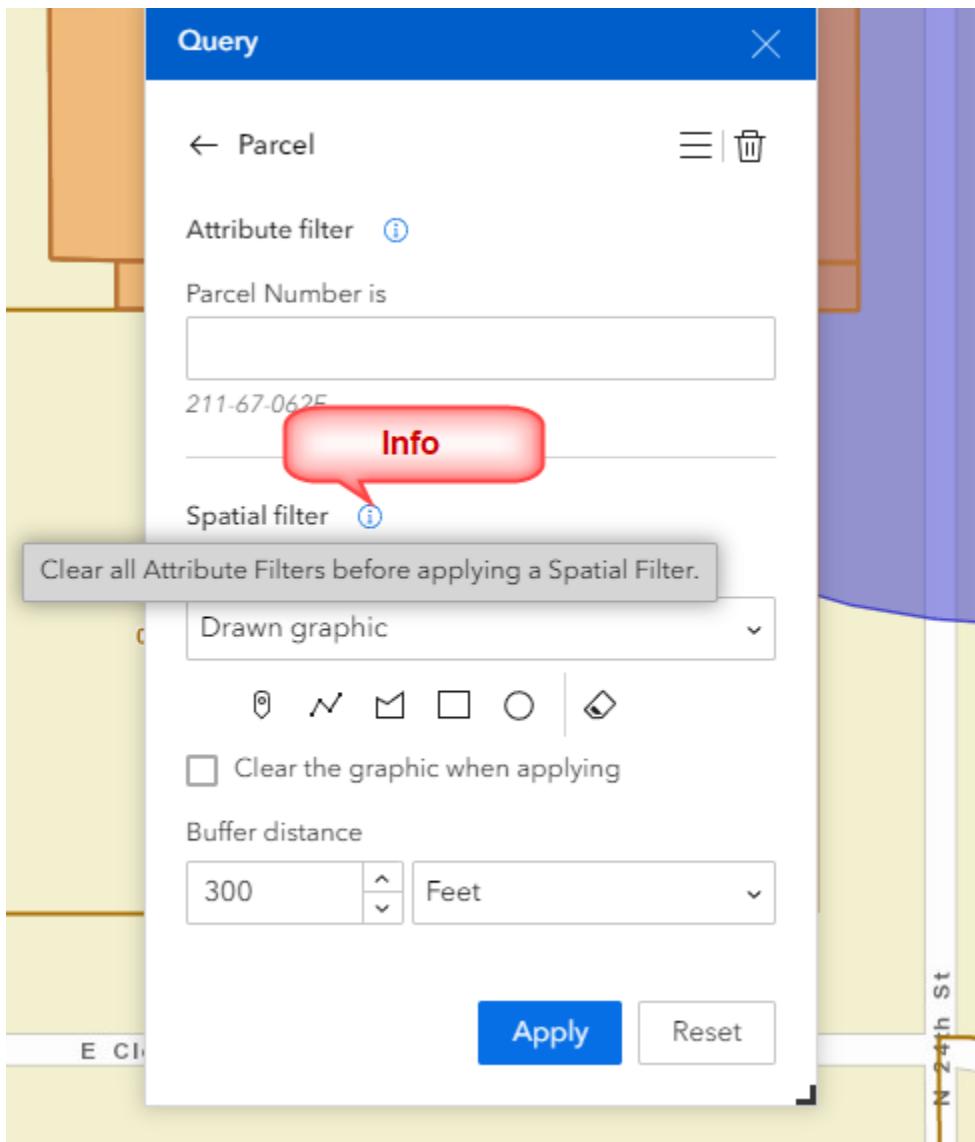
The Query Tool will correctly return 15 Parcels.



You can click on any result to zoom to it.



Always remember to clear all Attribute Filters before applying a Spatial Filter.

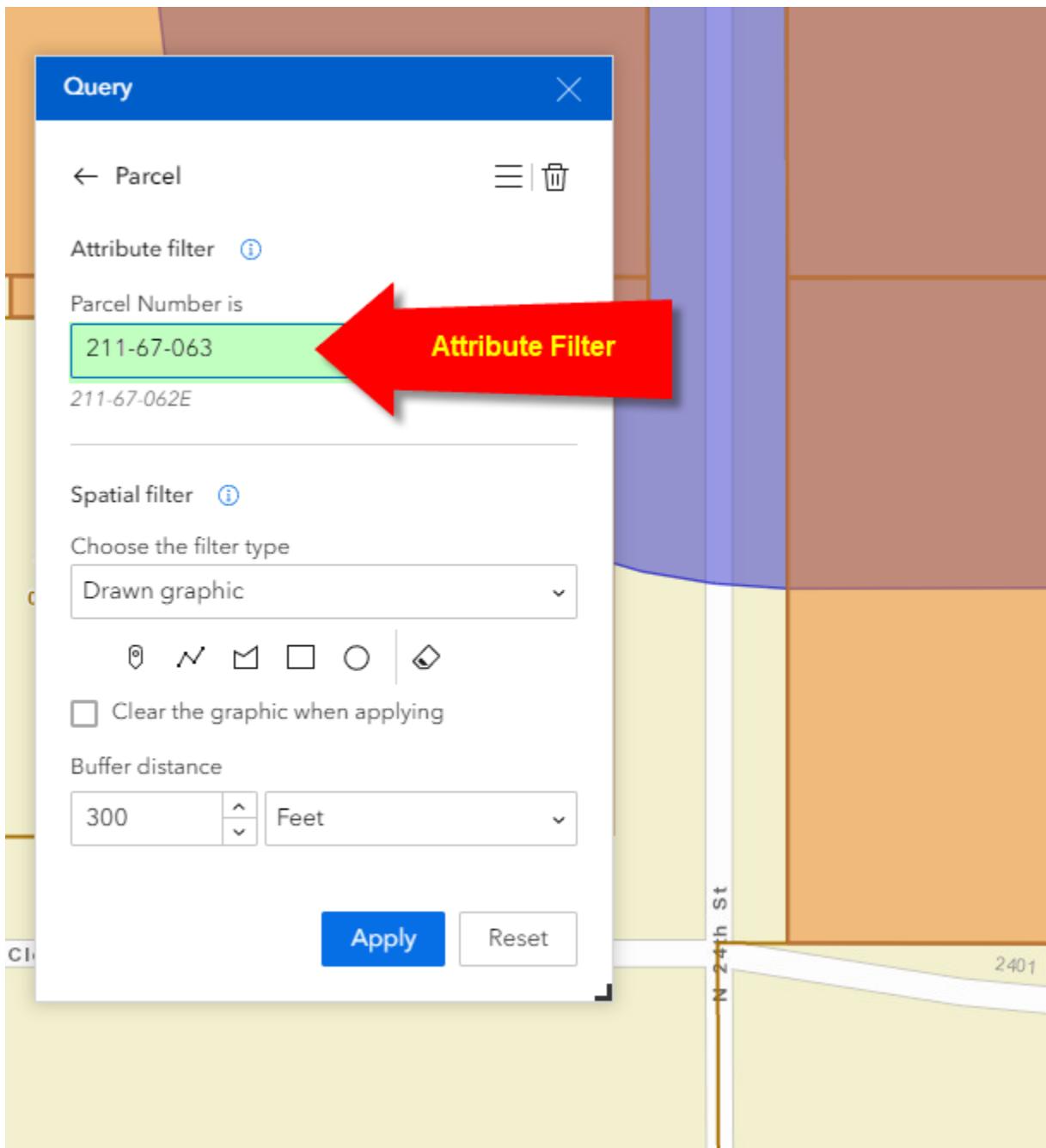


The reverse is equally true.

It is best to clear any Spatial Filter before applying an Attribute Filter.

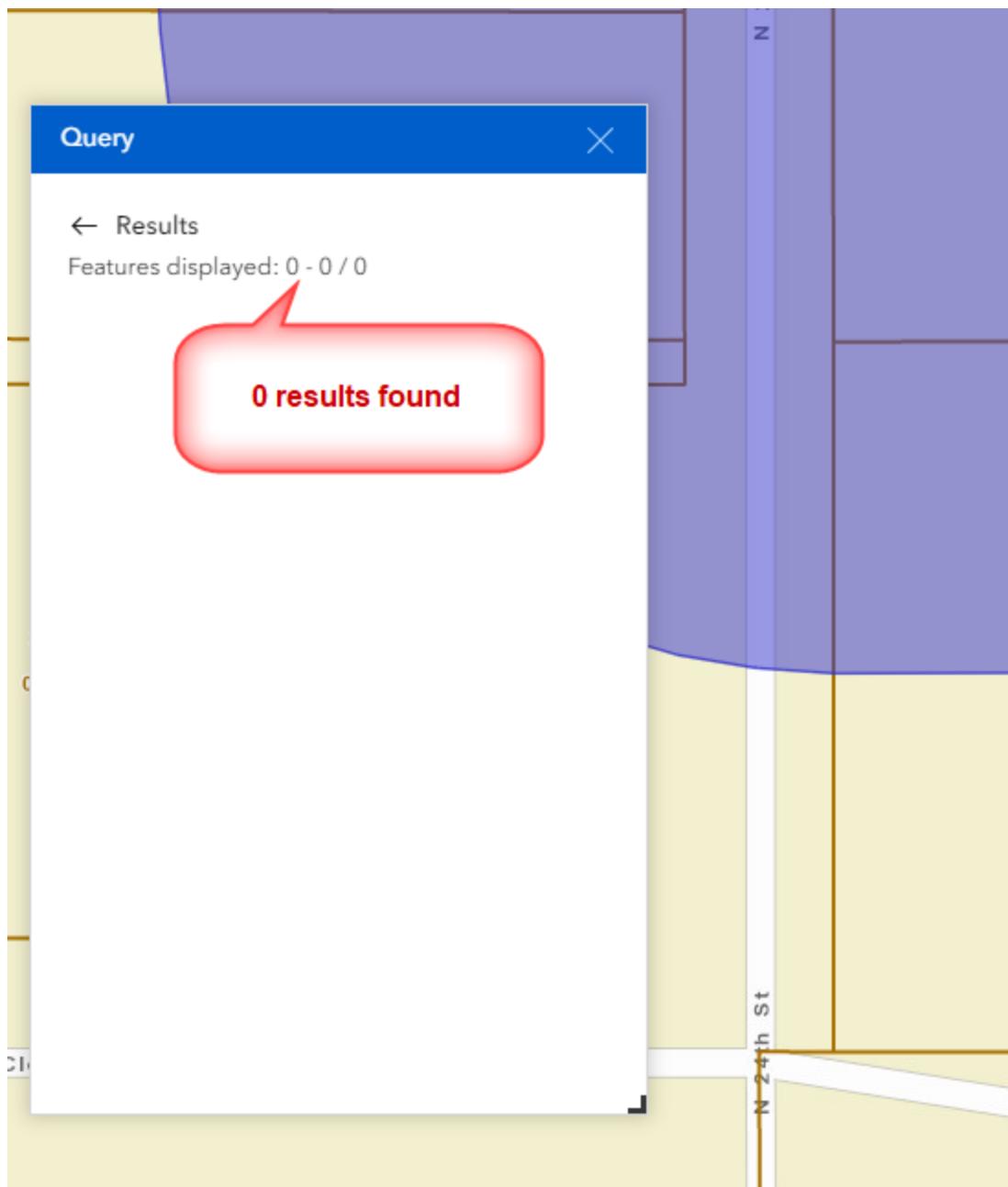
To test this, enter an Attribute Filter while the Spatial Filter is still active.

Enter Parcel Number = 211-67-063

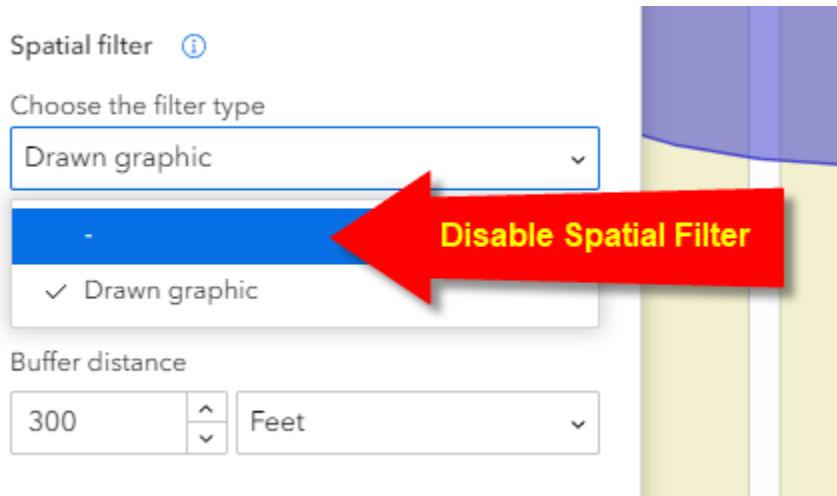


Press **Apply**

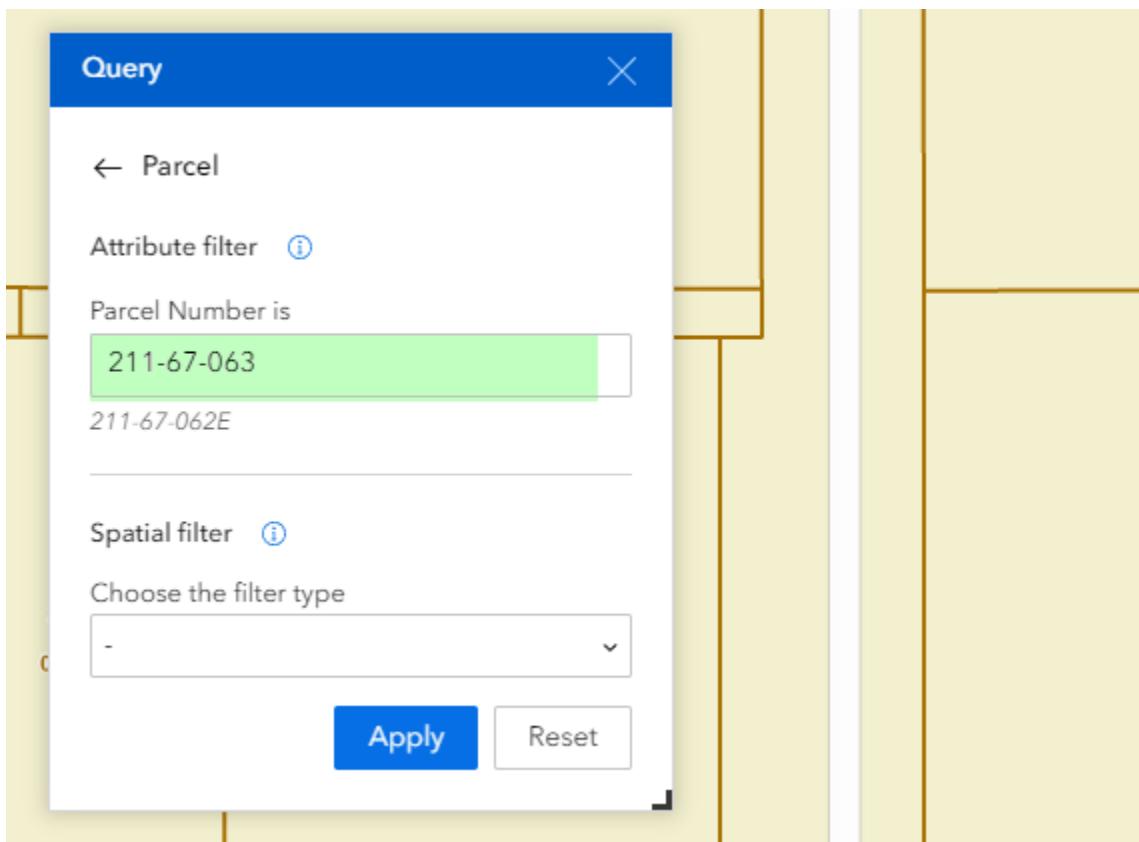
There will be zero results found.



To get the desired result, disable the Spatial Filter.

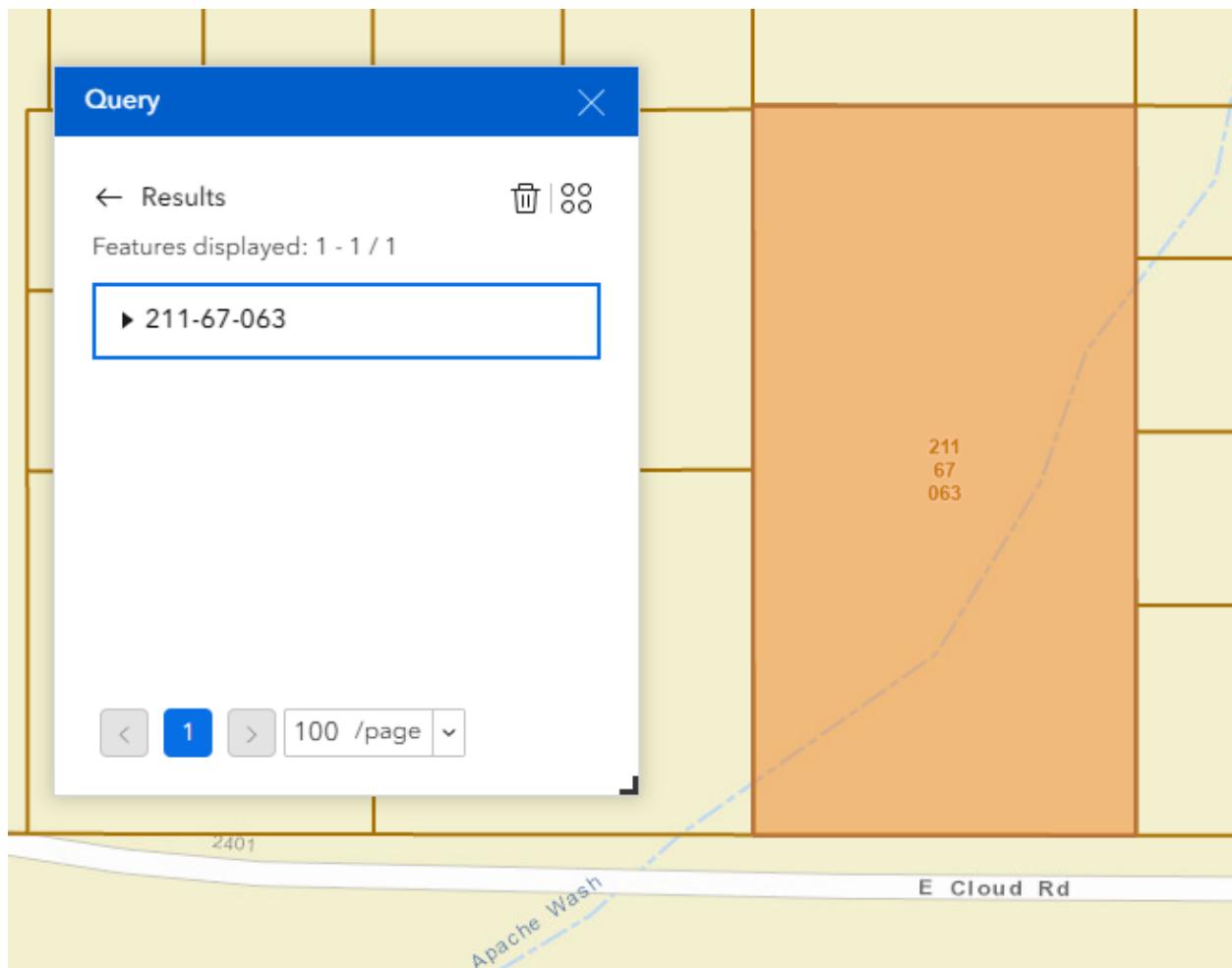


This removes the purple buffer.

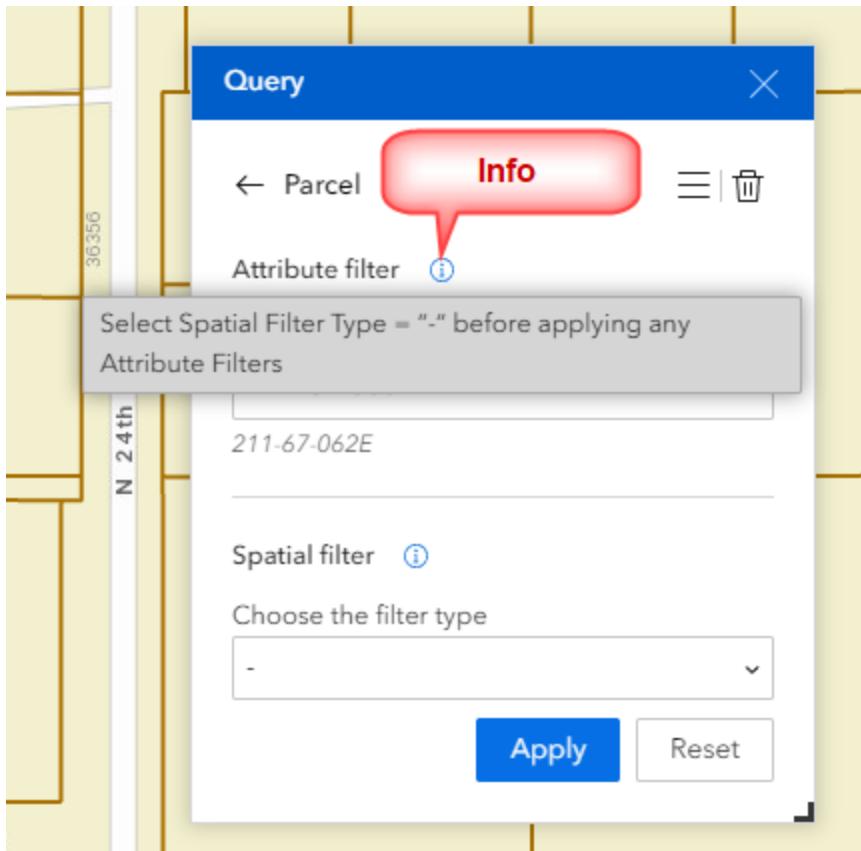


Press **Apply**

The Query Tool correctly finds Parcel 211-67-063.



Always remember to disable the spatial filter before applying an attribute filter.



### Example 3:

You are going to find all Parcels within 300 feet of a Street Intersection.

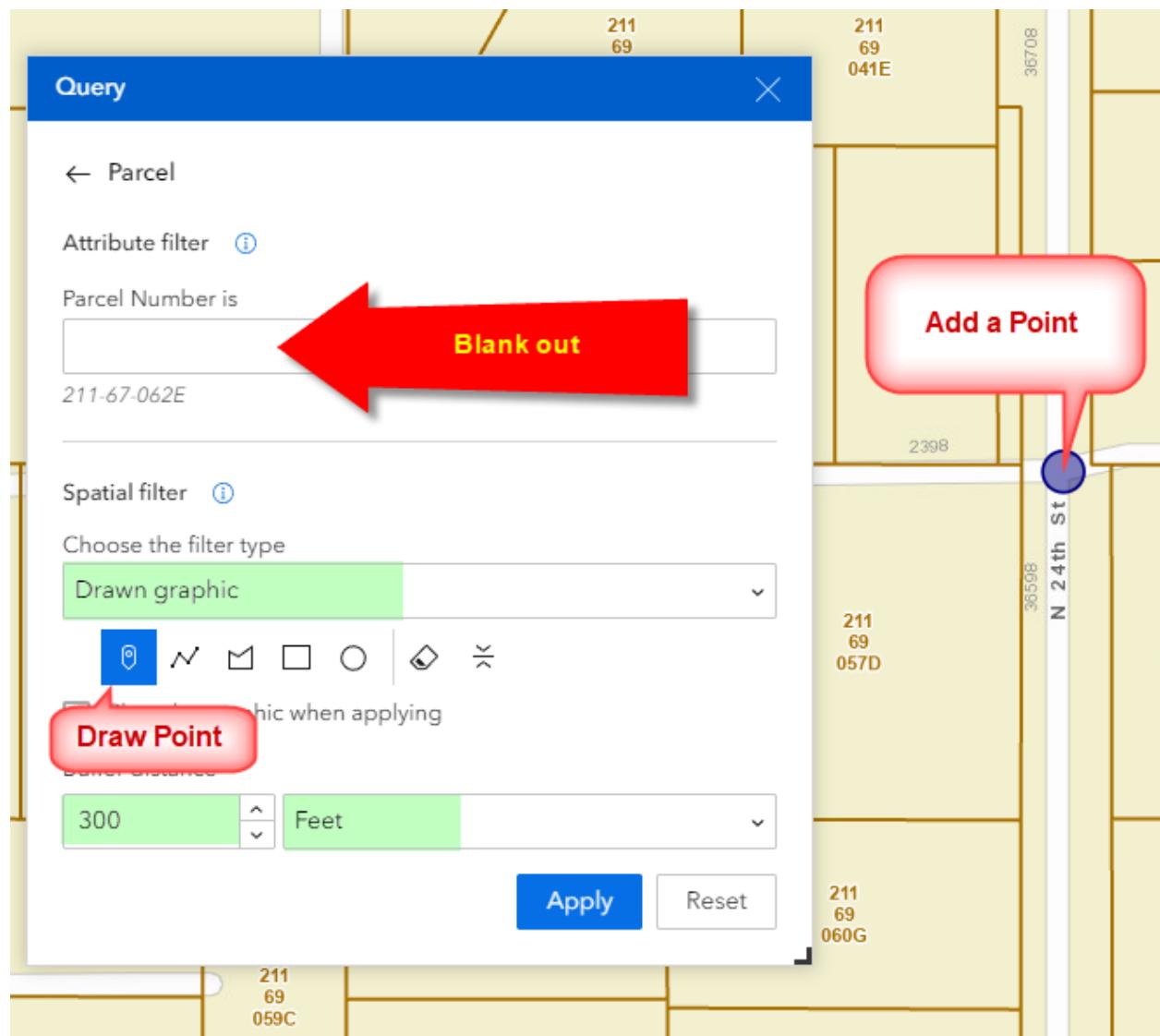
Blank out the Attribute Filter.

Set Spatial Filter Type = **Drawn graphic**

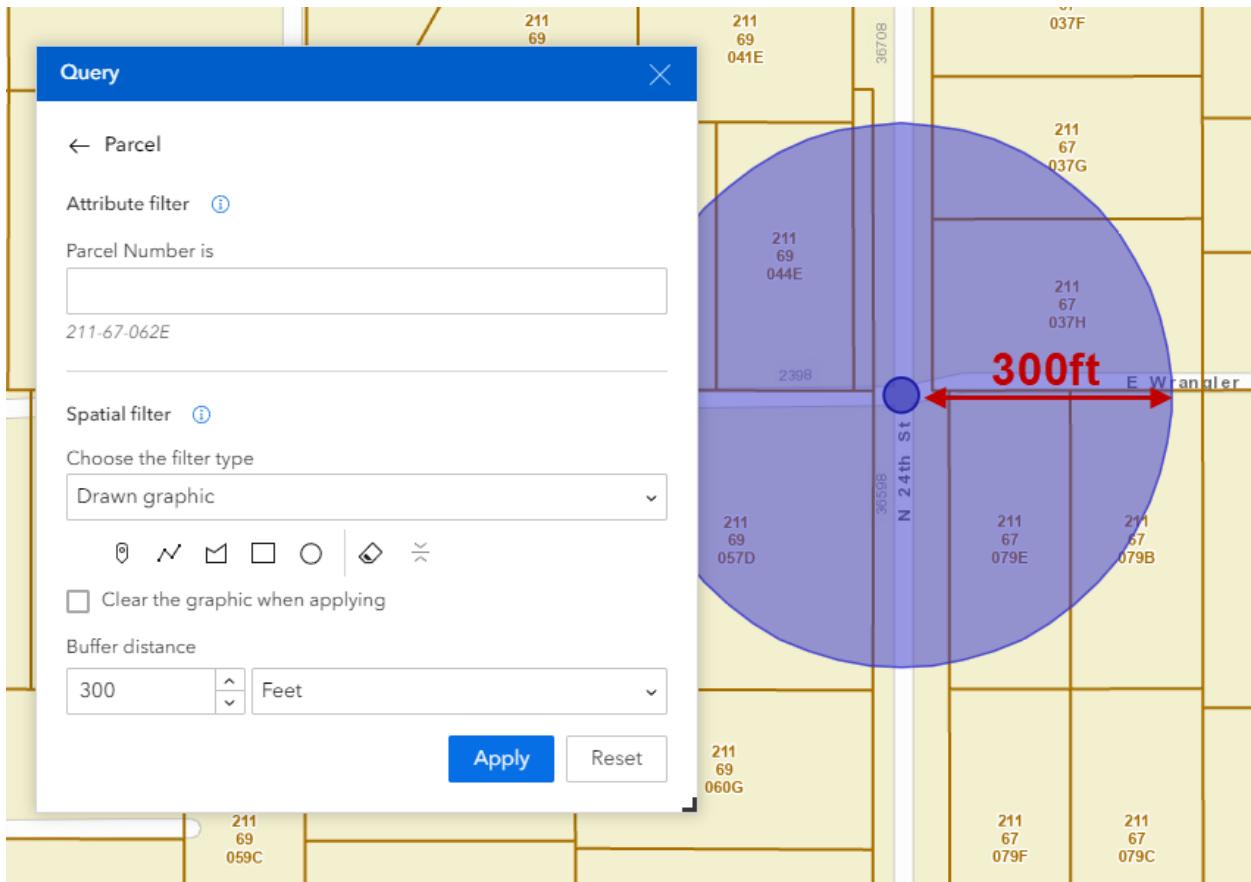
Set Buffer Distance = **300 feet**

Select the **Draw Point Tool**

Drop a point on a Street Intersection.

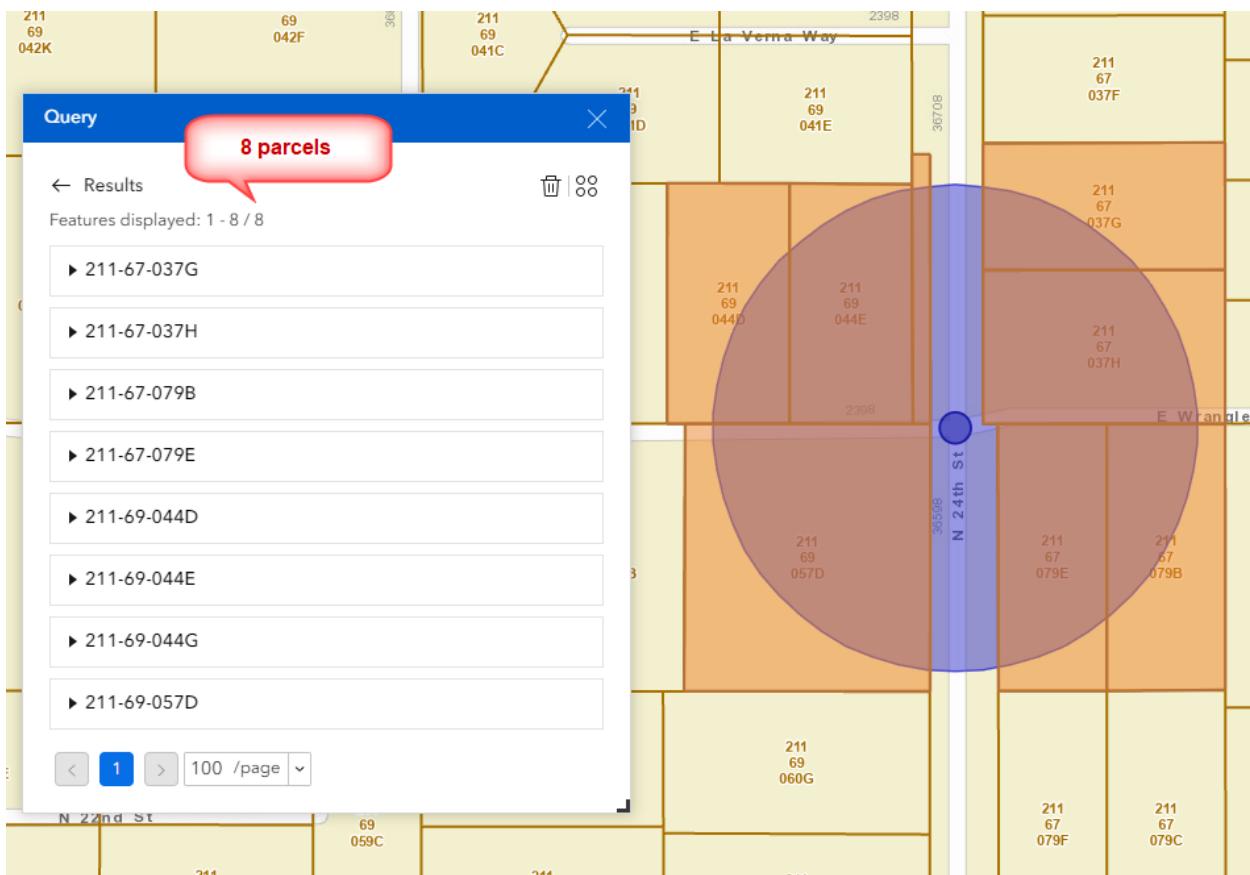


This draws a 300 feet purple buffer around your point.

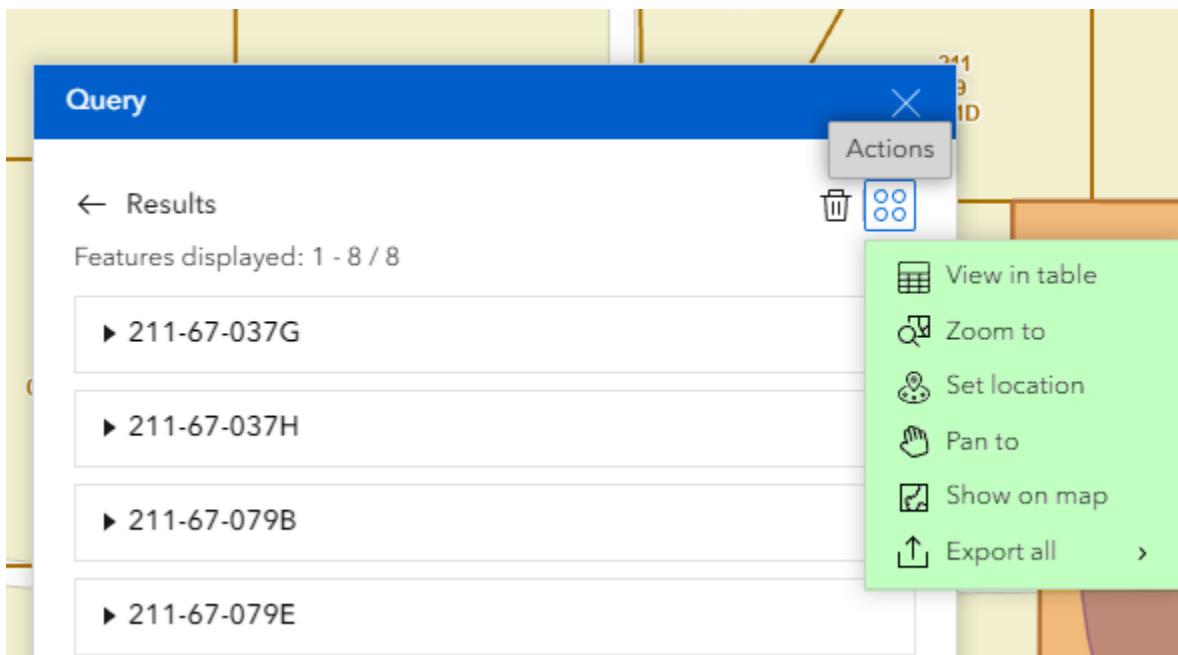


Press **Apply**

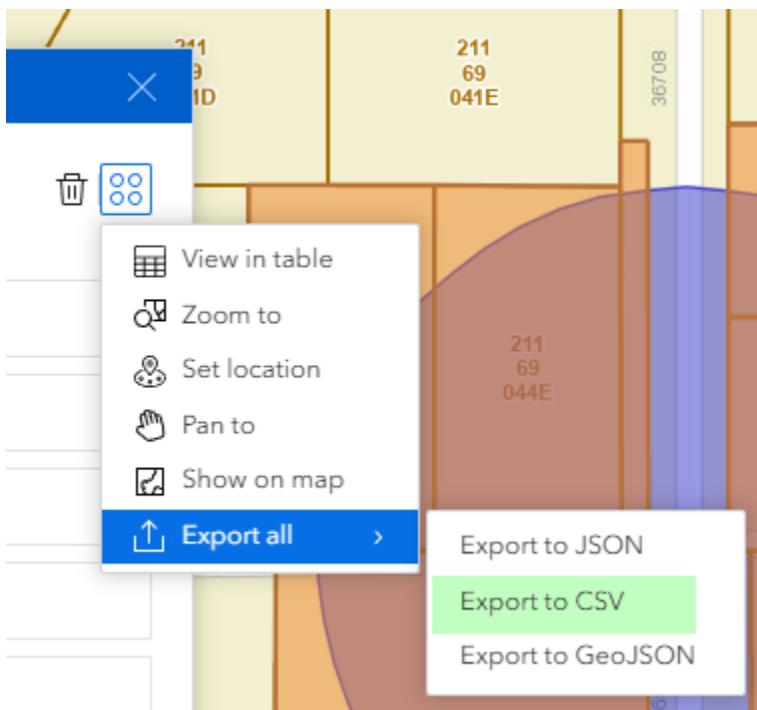
8 Parcels are found within 300 feet of this Street Intersection.



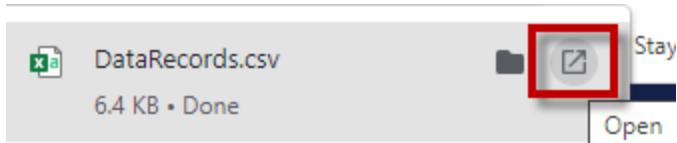
Open the Action Menu.



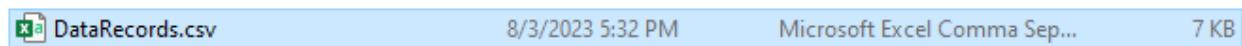
You can **Export** all the Attributes of these 8 parcels to a CSV file.



Open the DataRecords.csv file.



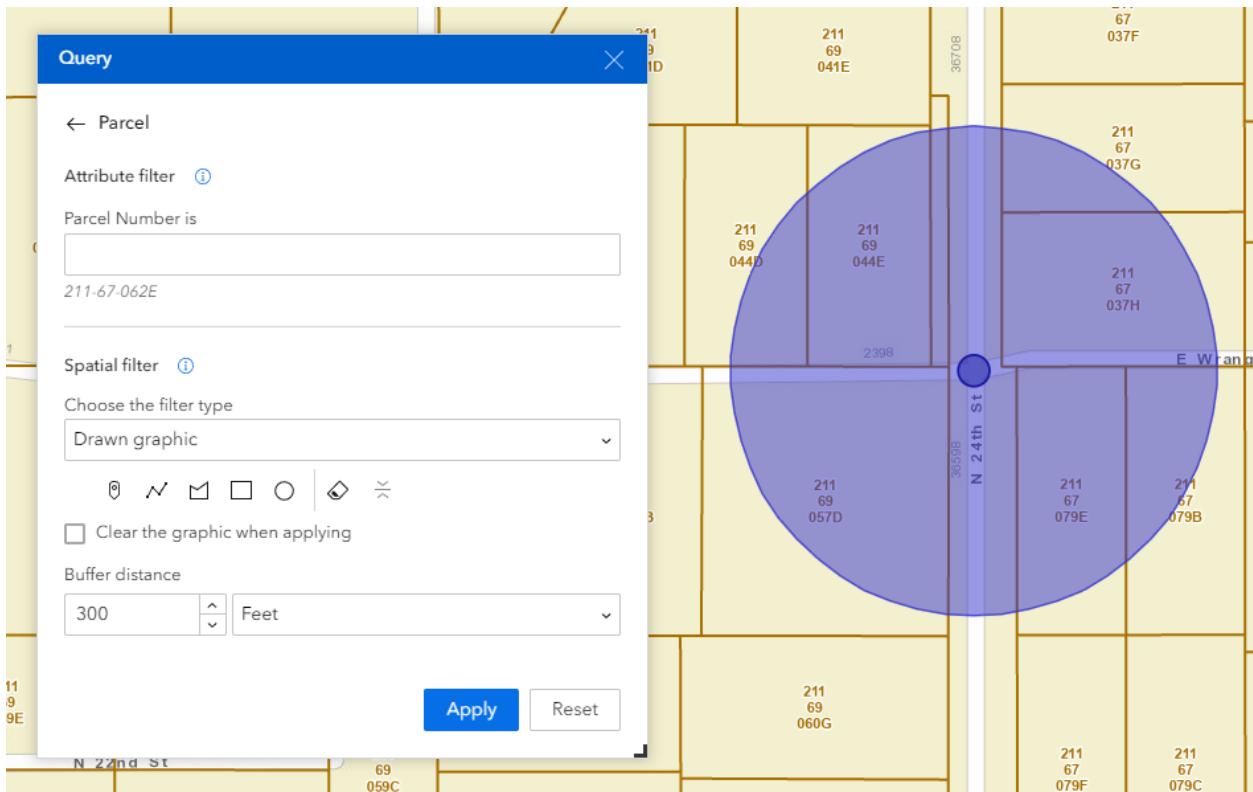
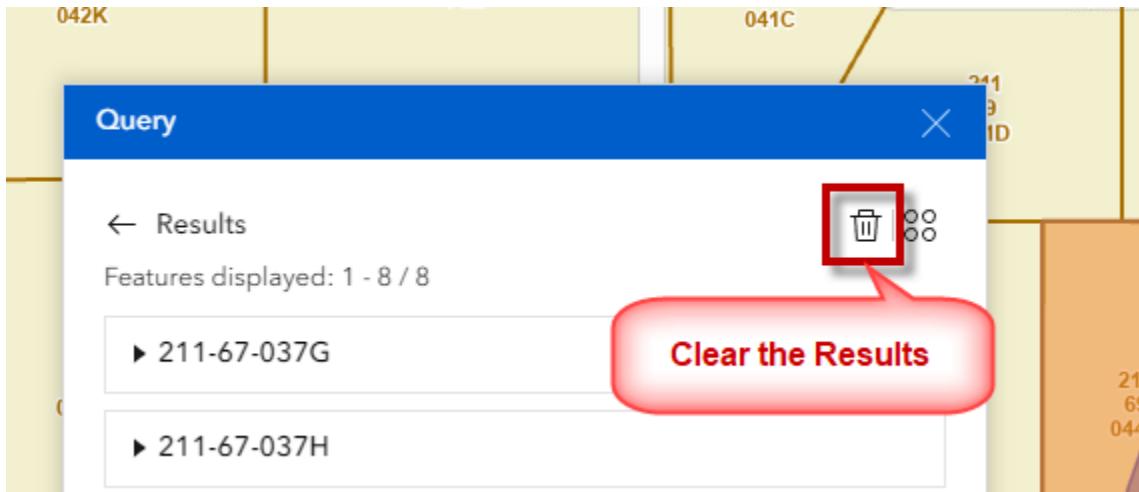
Or check your Downloads folder.



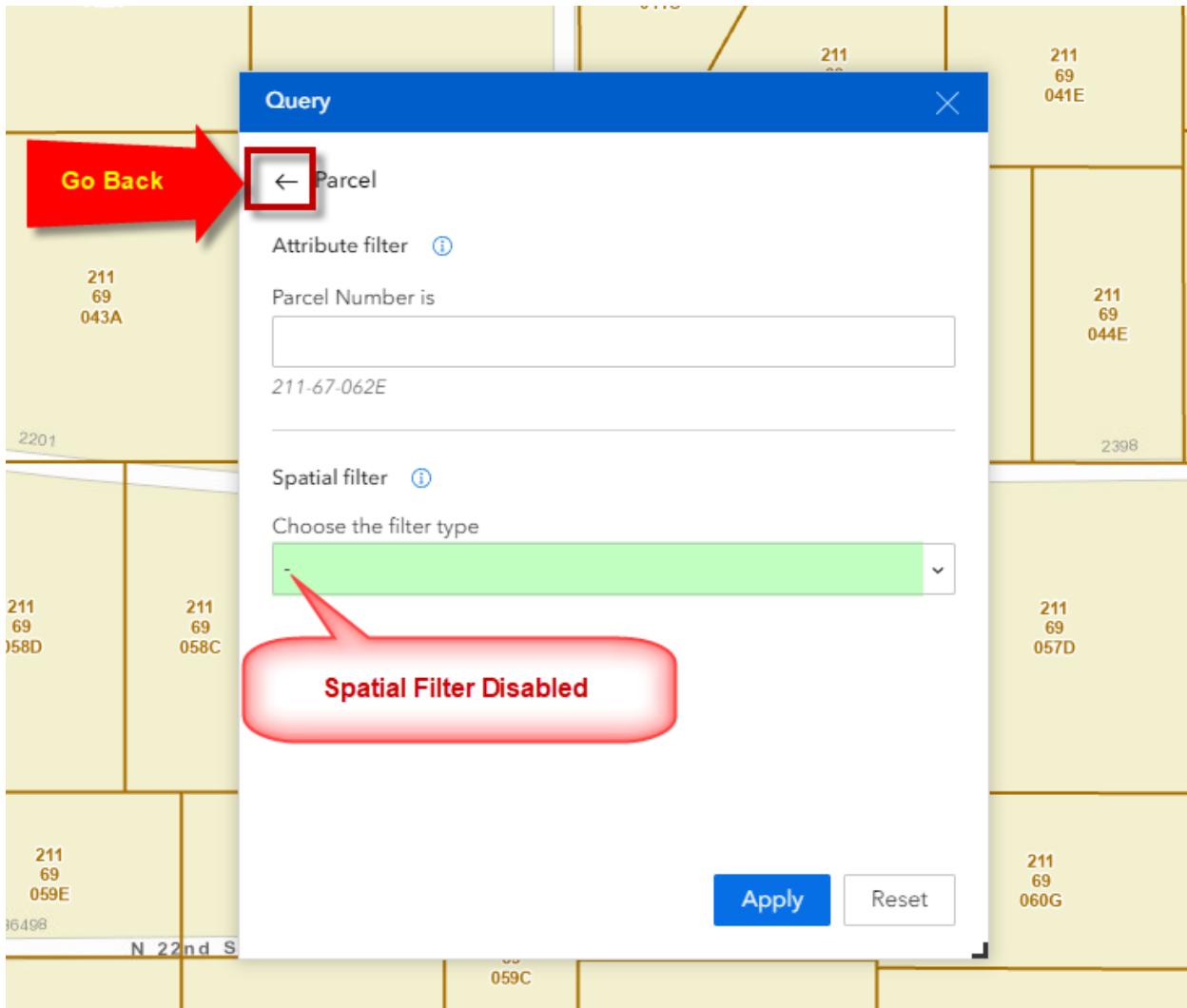
Open this CSV file in Excel.

	OBJECTID	APN	Parcel Number	APN	DashSplit	Book	Map	Item	Address
2	732990	211-67-037G							36615 N 24TH ST
3	732991	211-67-037H							36609 N 24TH ST
4	733068	211-67-079B							36515 N 24TH ST
5	733070	211-67-079E							36509 N 24TH ST
6	733523	211-69-044D							2328 E CARRIAGE DR
7	733524	211-69-044E							2340 E CARRIAGE DR
8	733525	211-69-044G							
9	733551	211-69-057D							36526 N 24TH ST
10									
11									

## Clear the Results

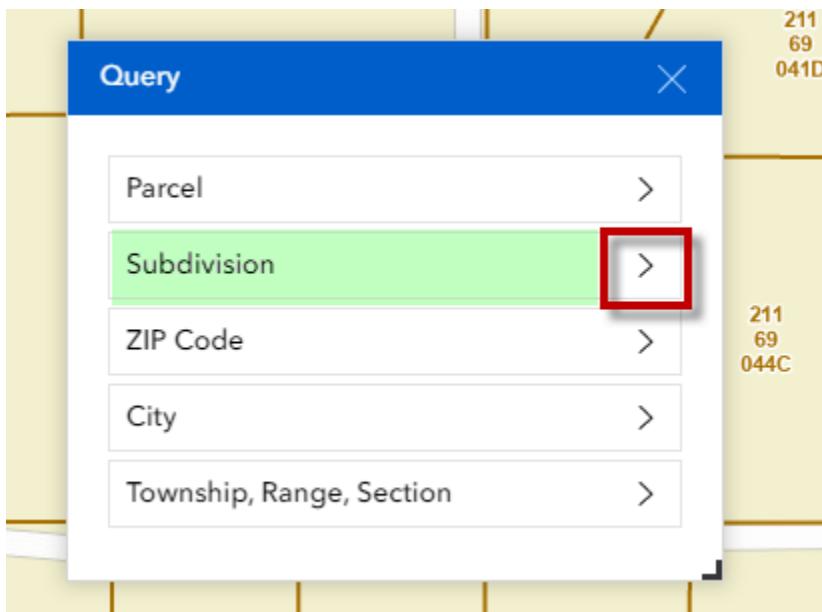


Disable the Spatial Filter.



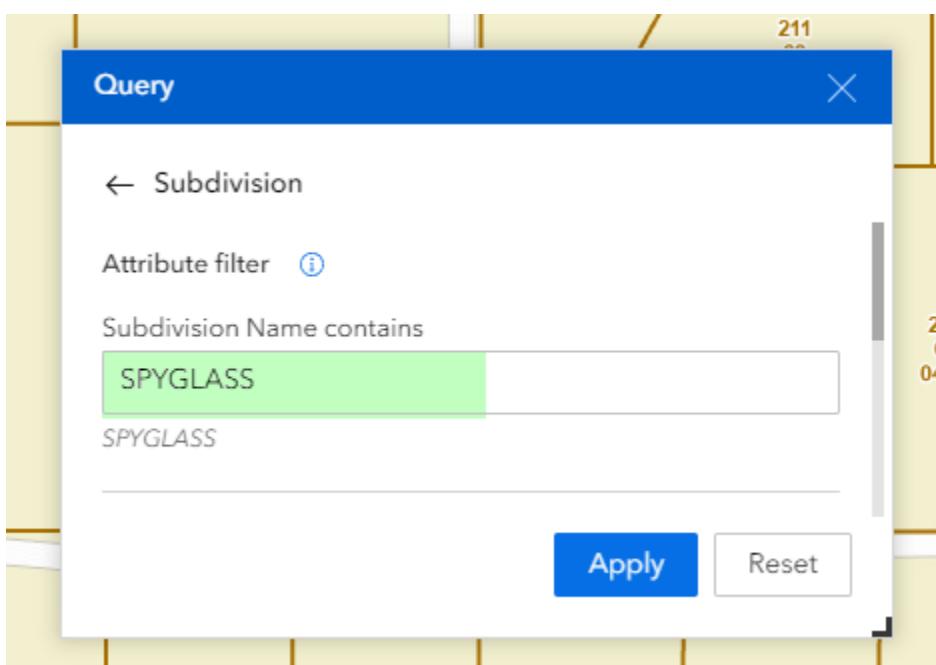
Go Back

## Using the Subdivision Query



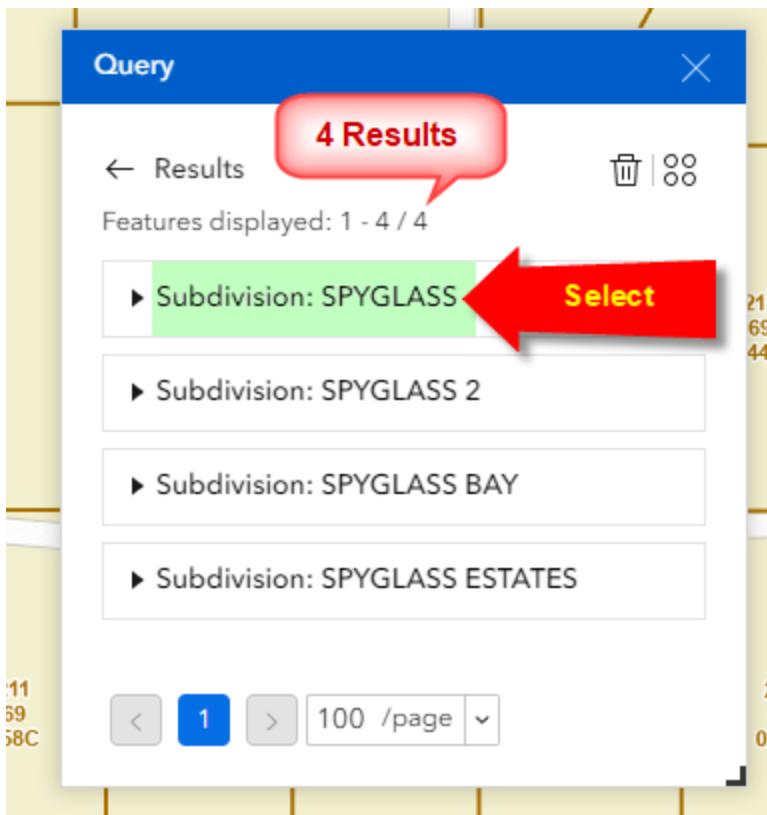
Enter Attribute Filter = SPYGLASS

Note: The case does not matter.

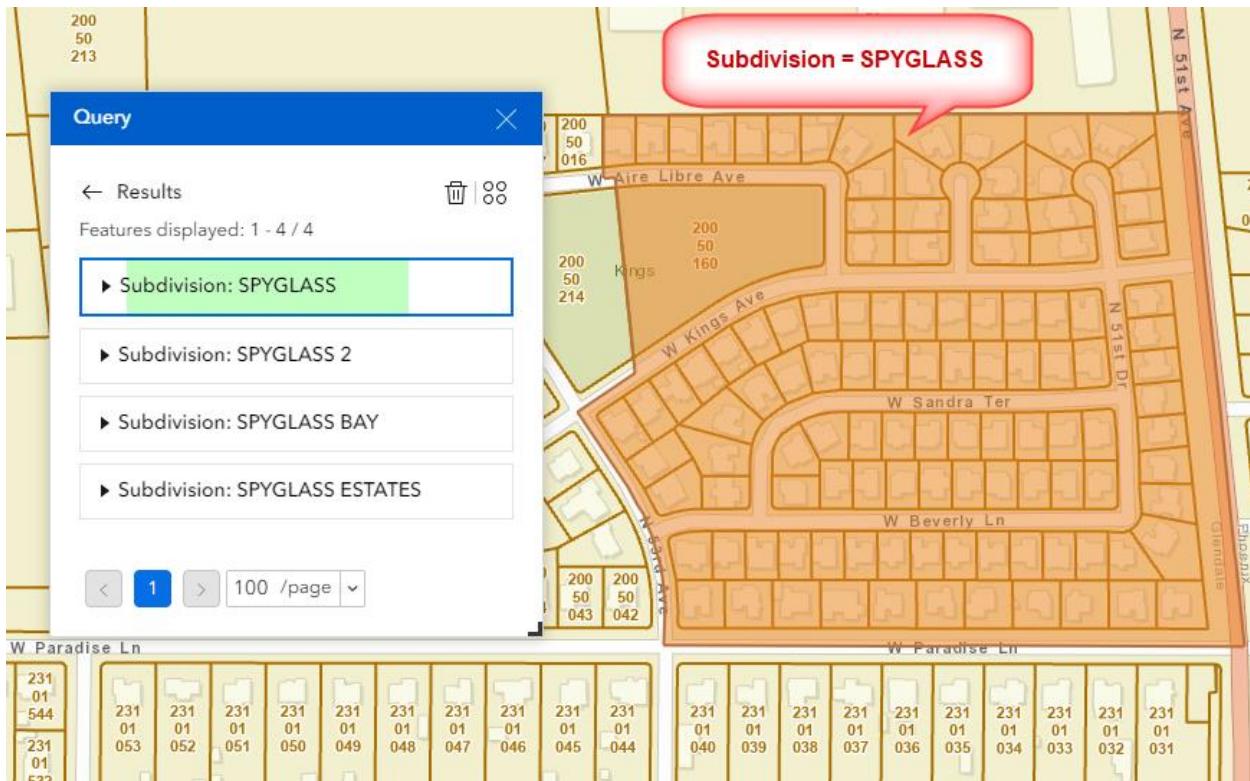


4 results are found where the Subdivision Name contains "SPYGLASS".

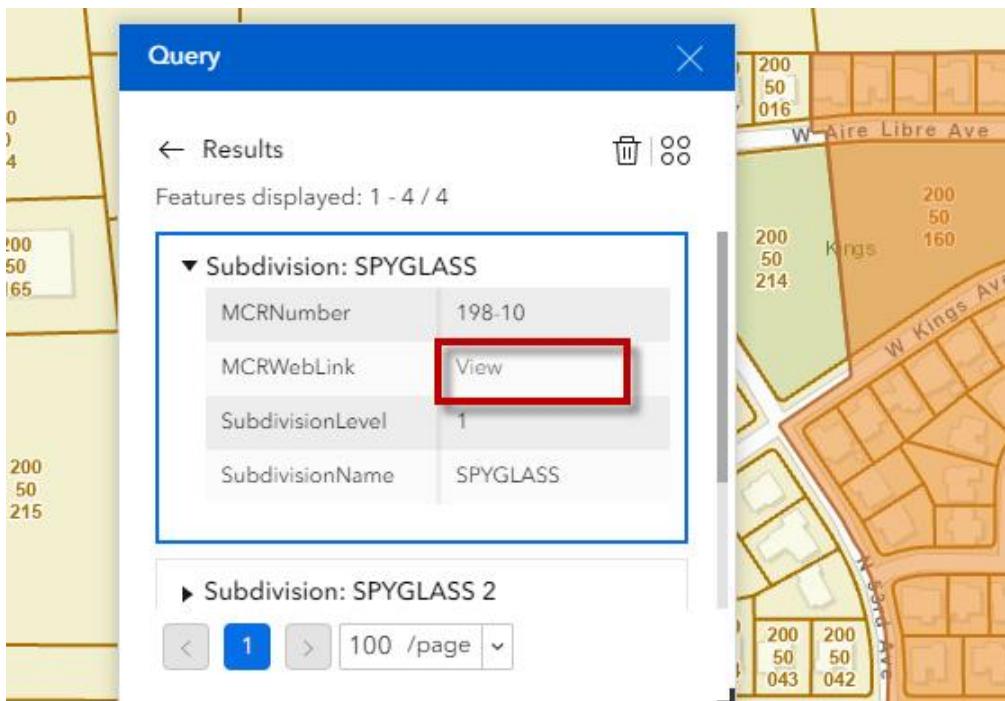
Click on the first result.



The map zooms to Subdivision = SPYGLASS.



Expand to see the attributes.



Open the **View Link**

This opens the Maricopa County Recorder's Page.

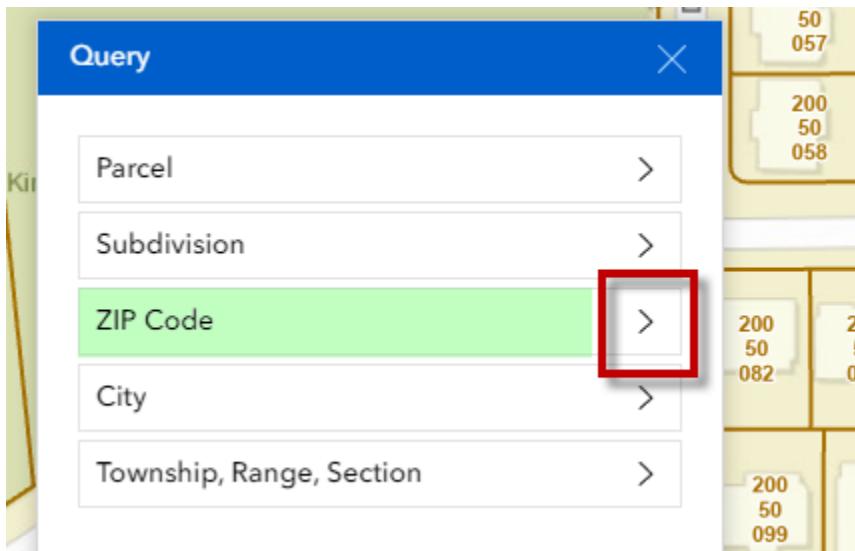
<https://recorder.maricopa.gov/recdochelp/internetmaps/imapsdetail.aspx?Book=198&Page=10&imgType=PDF&maptype=Plat>

The screenshot shows the Maricopa County Recorder's website. At the top, there are links for 'FAQs' and 'Contact'. Below that is the title 'STEPHEN RICHER MARICOPA COUNTY RECORDER' flanked by two circular seals. A navigation bar below the title includes links for 'Home', 'About Us', 'Recorder', 'Elections', 'Media', 'Publications', and 'Help & Support'. The main content area is titled 'Search Results'. A specific search result for '198PLAT101' is highlighted with a large red arrow pointing to the 'View the Plat Map' link. To the right of this link are buttons for 'ADD TO CART' and 'BUY'. A 'New Search' button is located at the bottom left of the search result card.

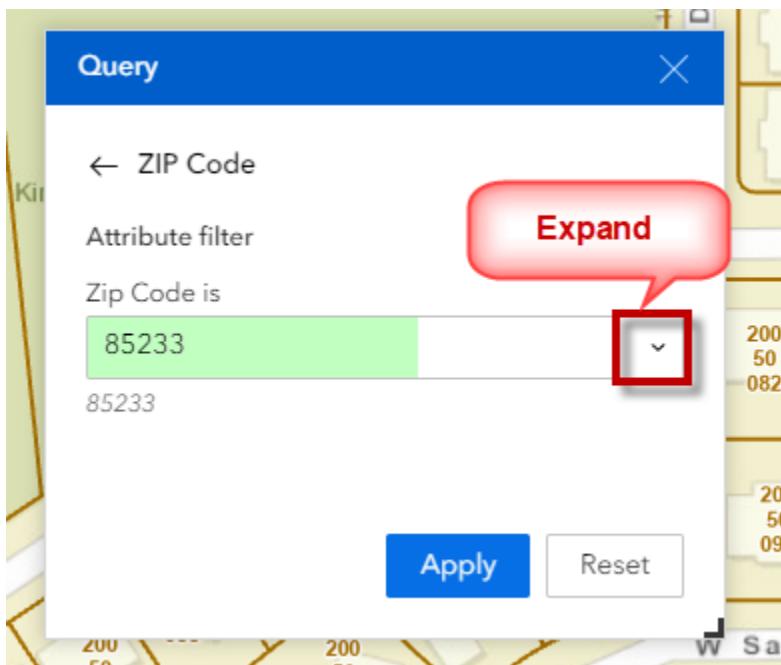
Open the link to view the unofficial Plat Maps.

<https://recorder.maricopa.gov/PlatPdf/198PLAT101.pdf>

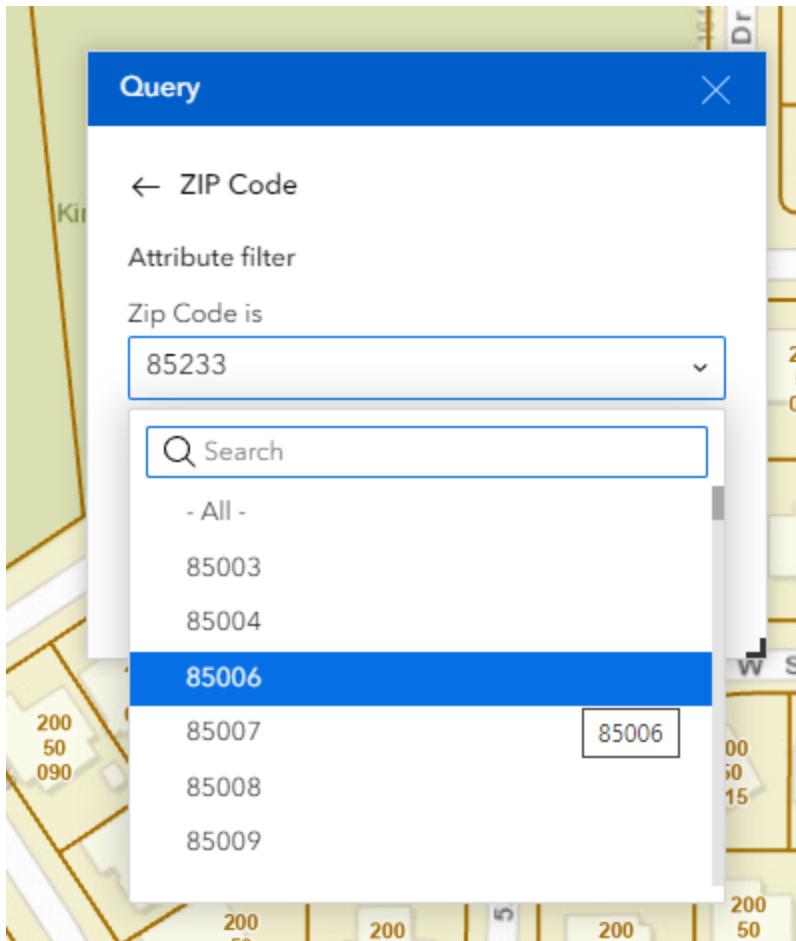
## Using the ZIP Code Query



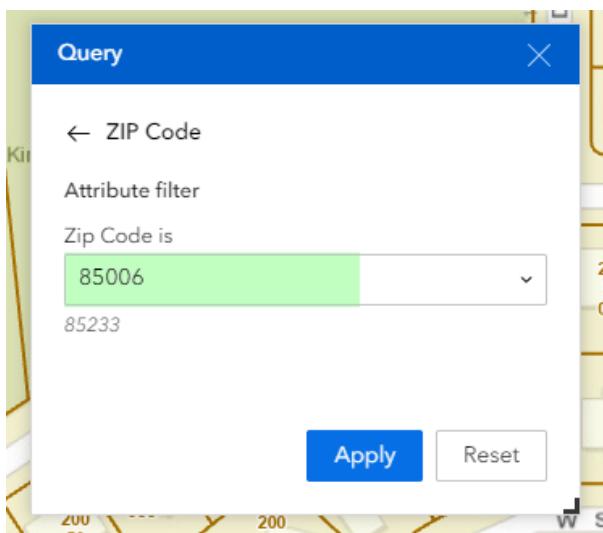
Expand the drop-down menu to see all valid ZIP Codes in Maricopa County.



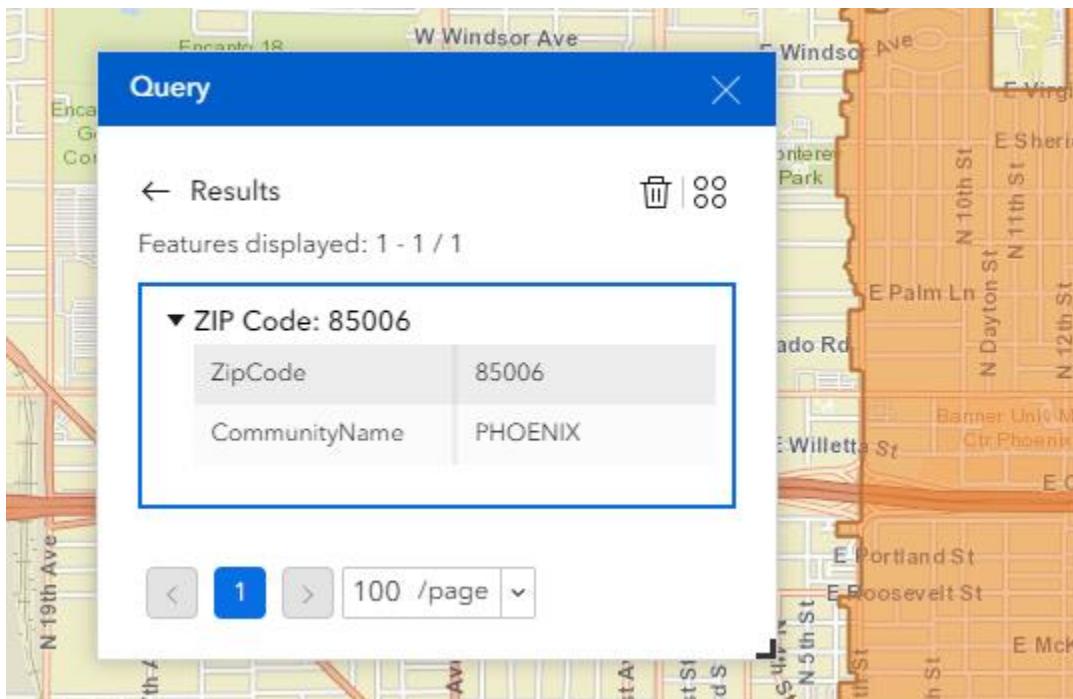
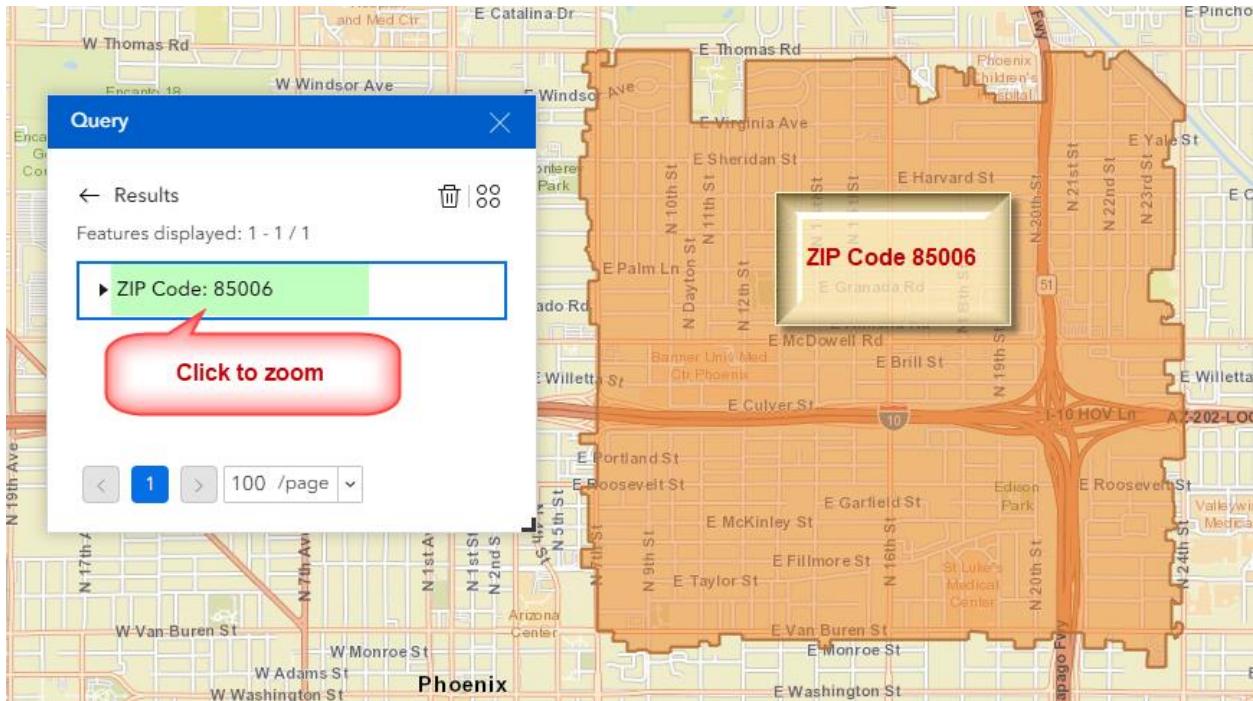
Select ZIP Code = 85006



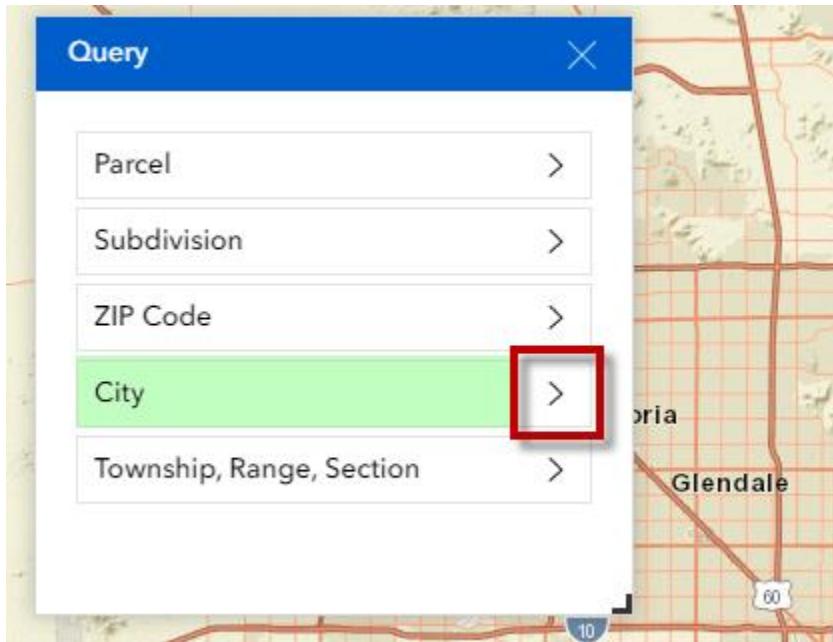
Apply



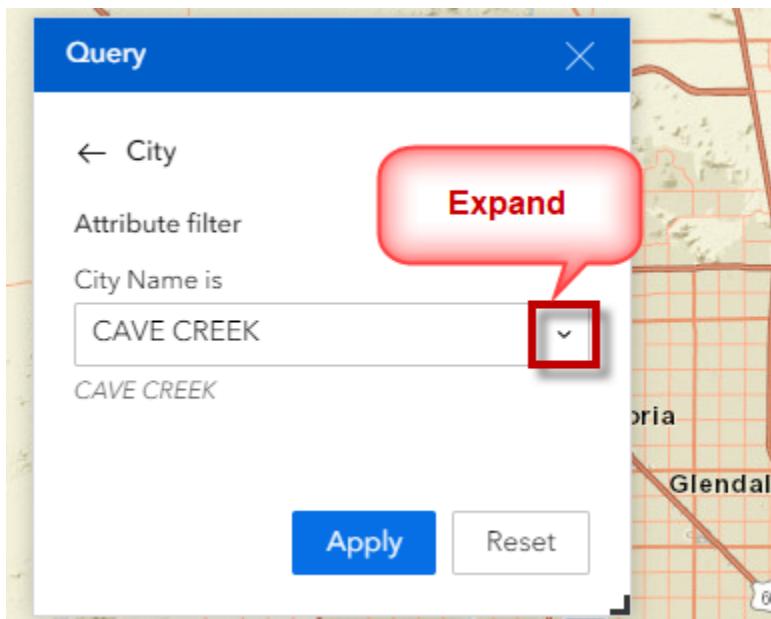
Click on the Result to zoom to ZIP Code 85006



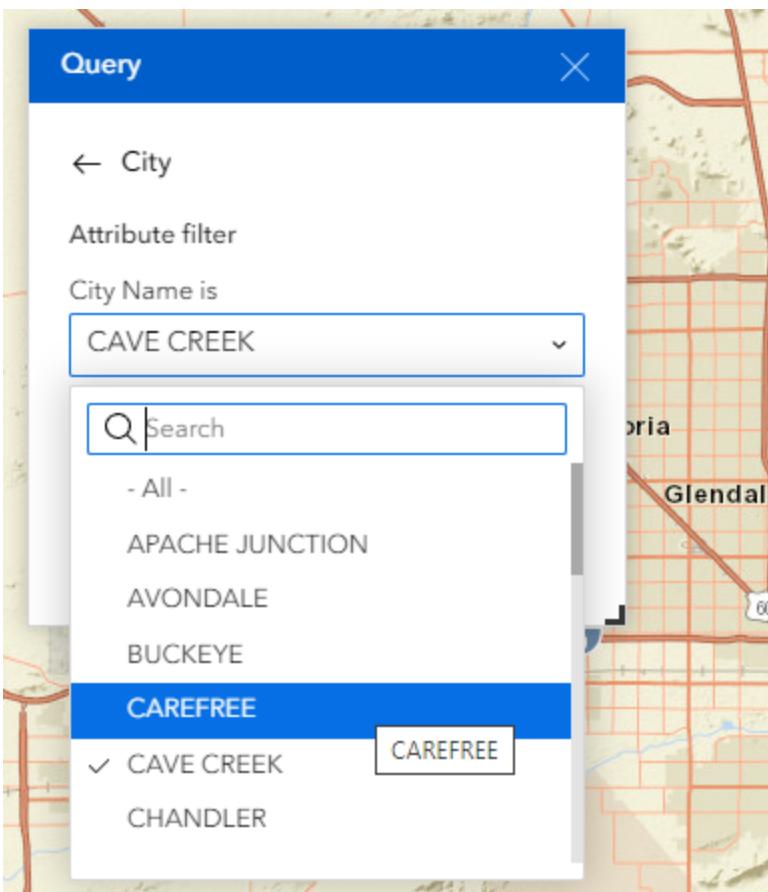
## Using the City Query



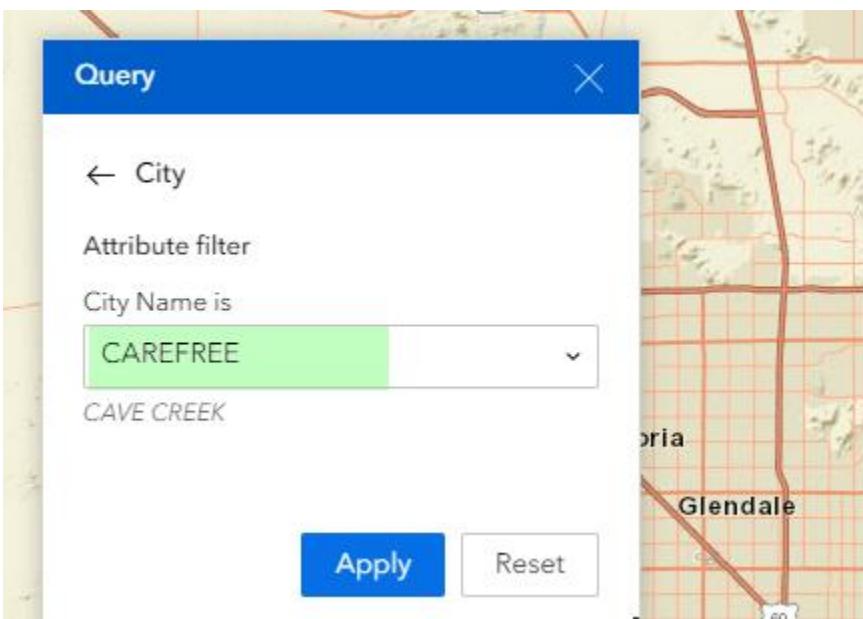
Expand the drop-down list to see all the Cities and Towns in Maricopa County.



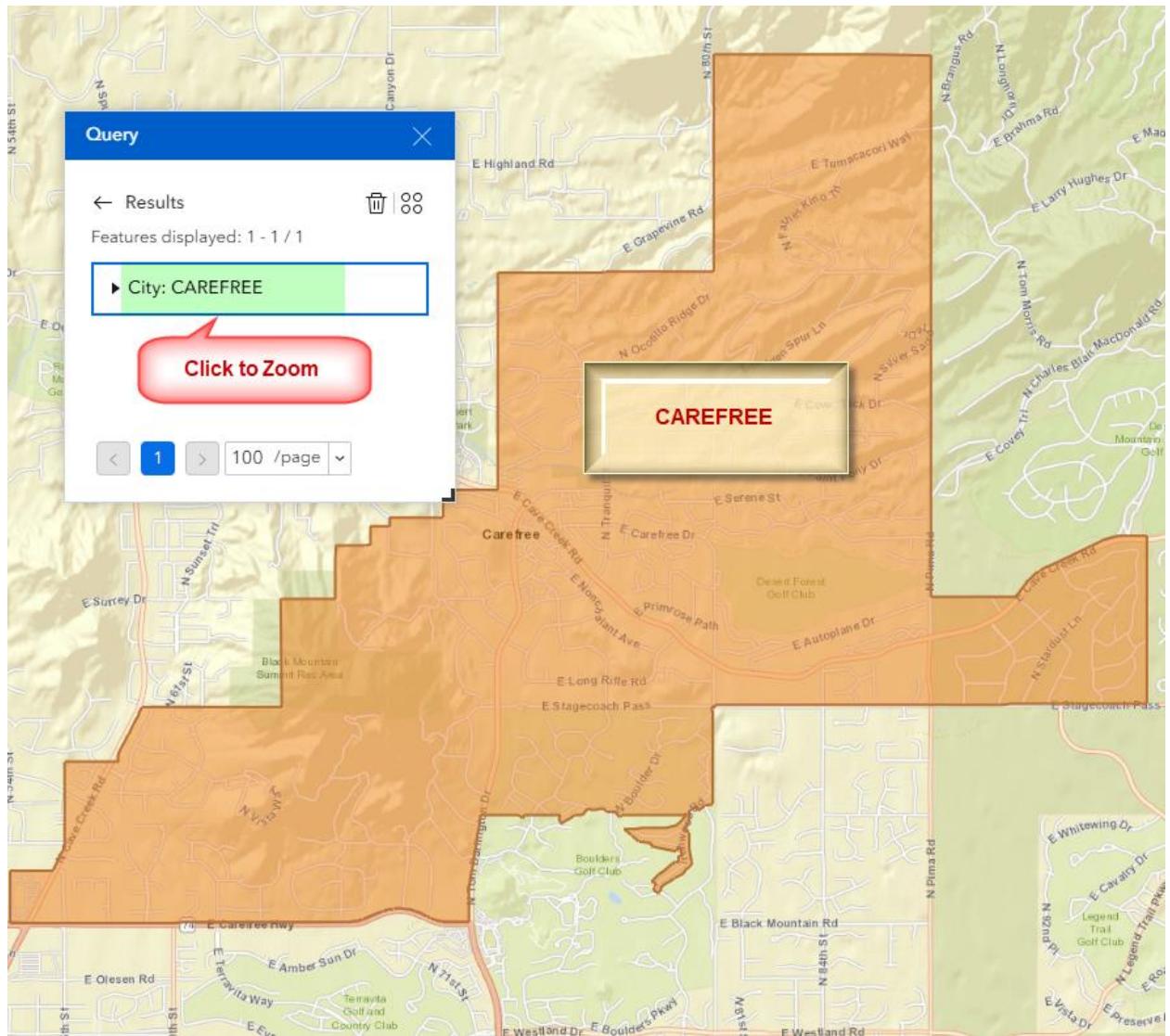
Select CAREFREE



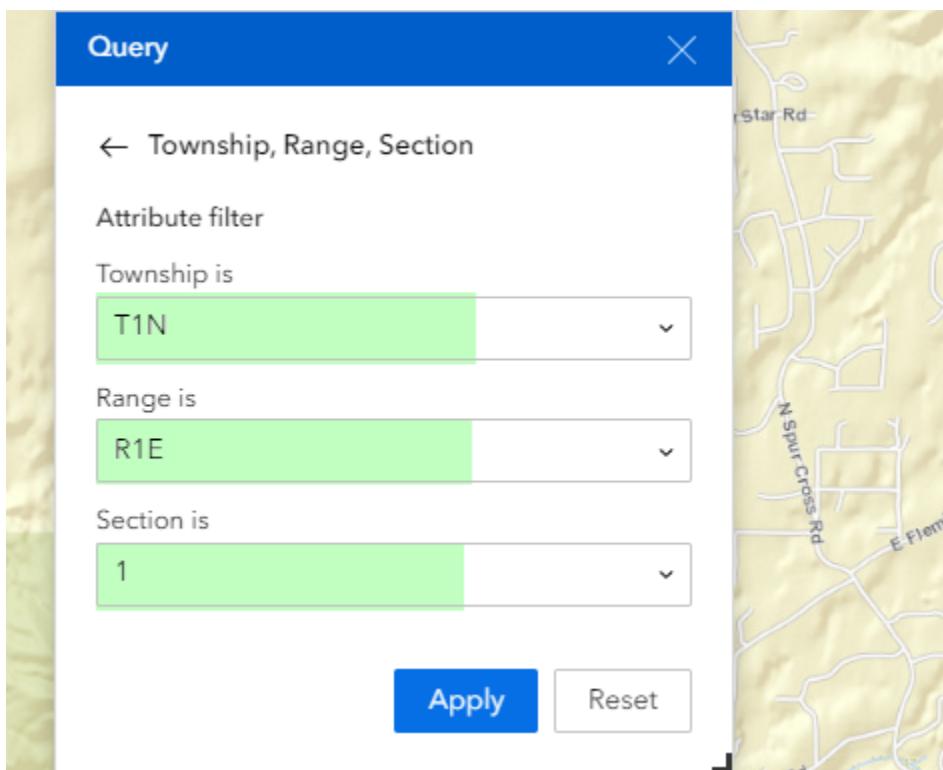
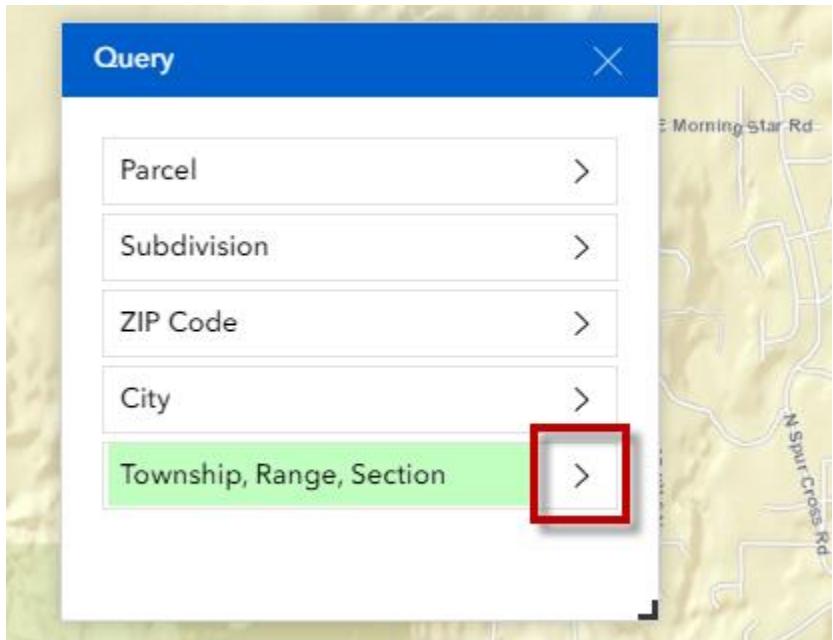
Apply



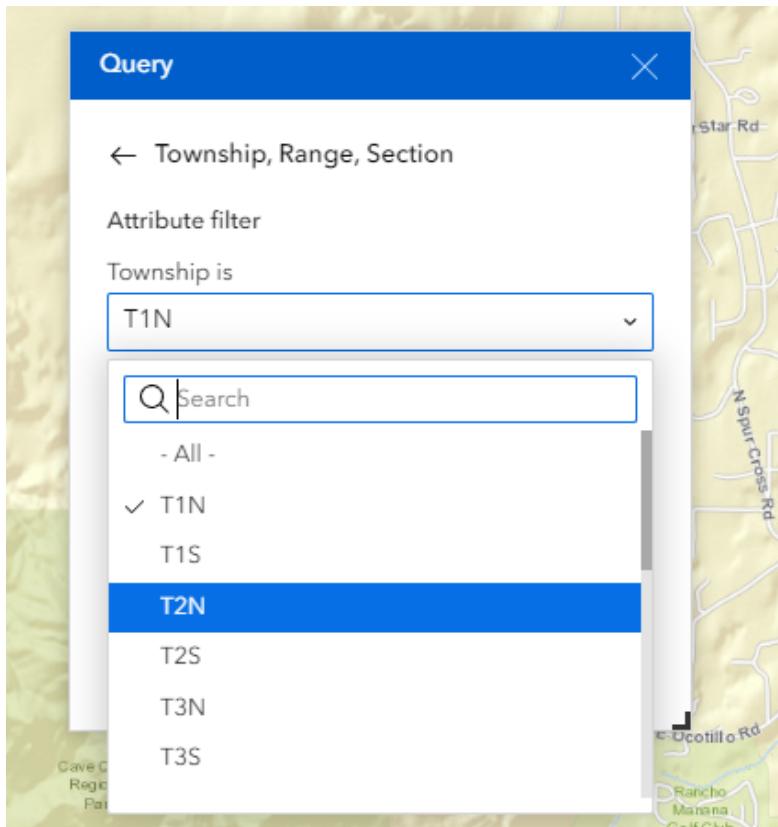
Click to zoom.



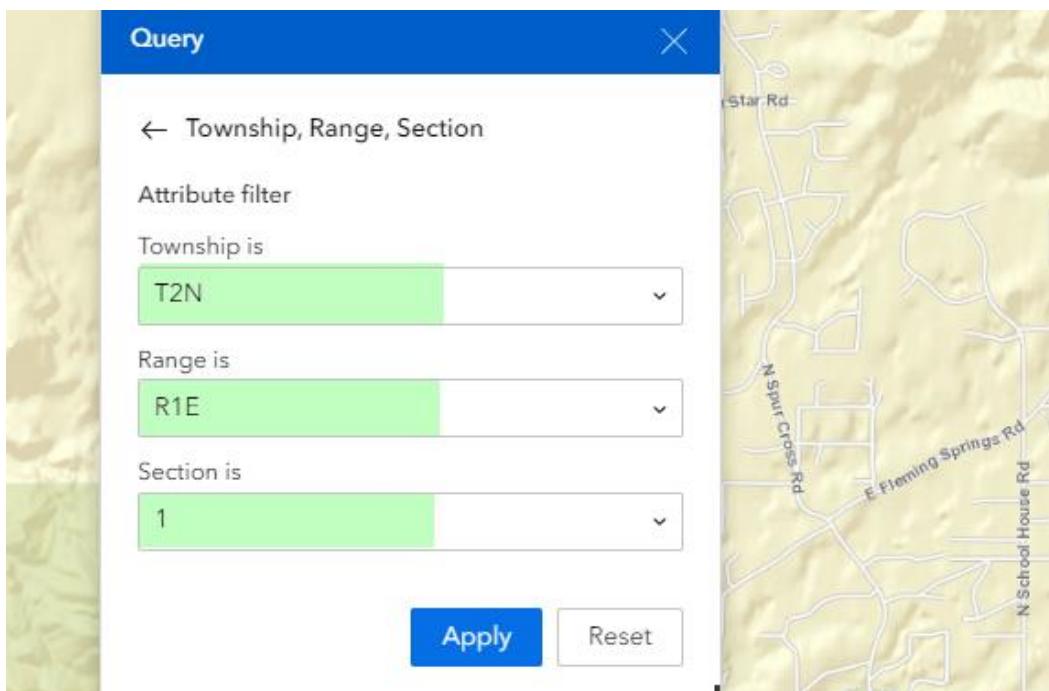
## Using the Township, Range, Section Query



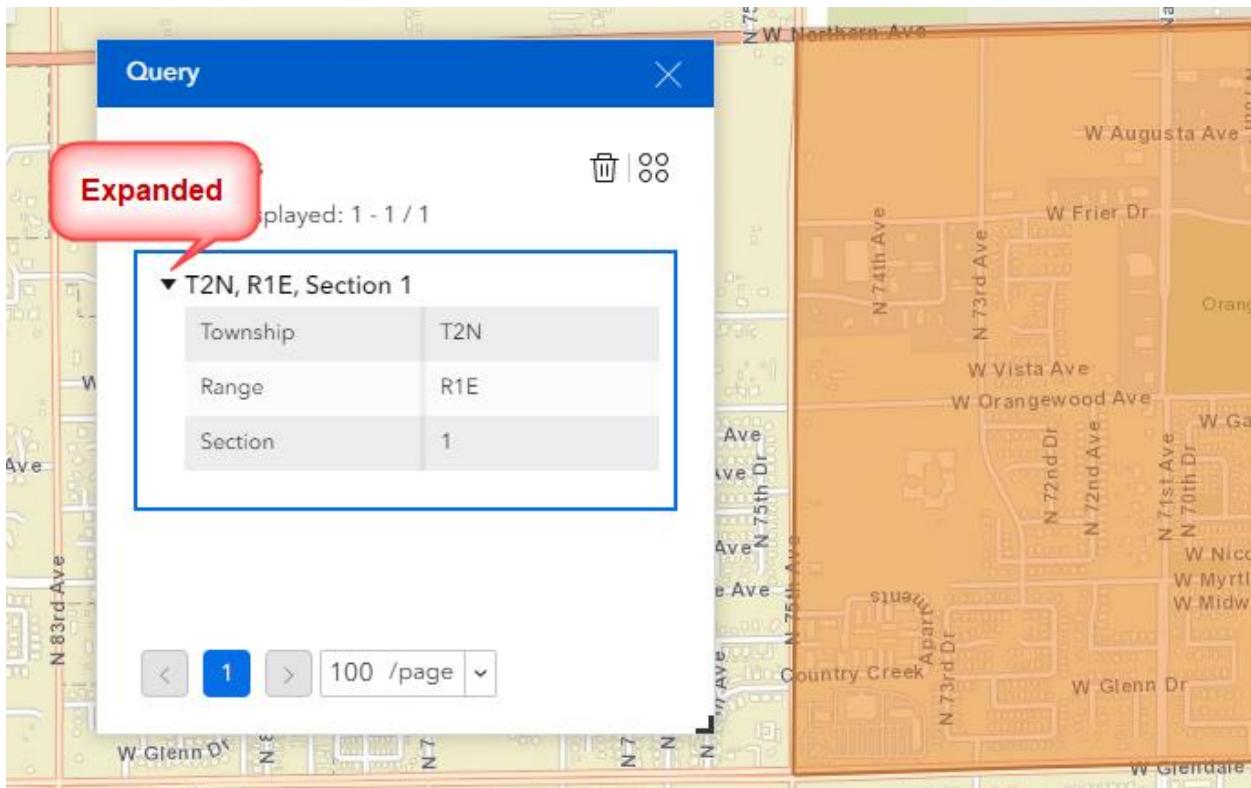
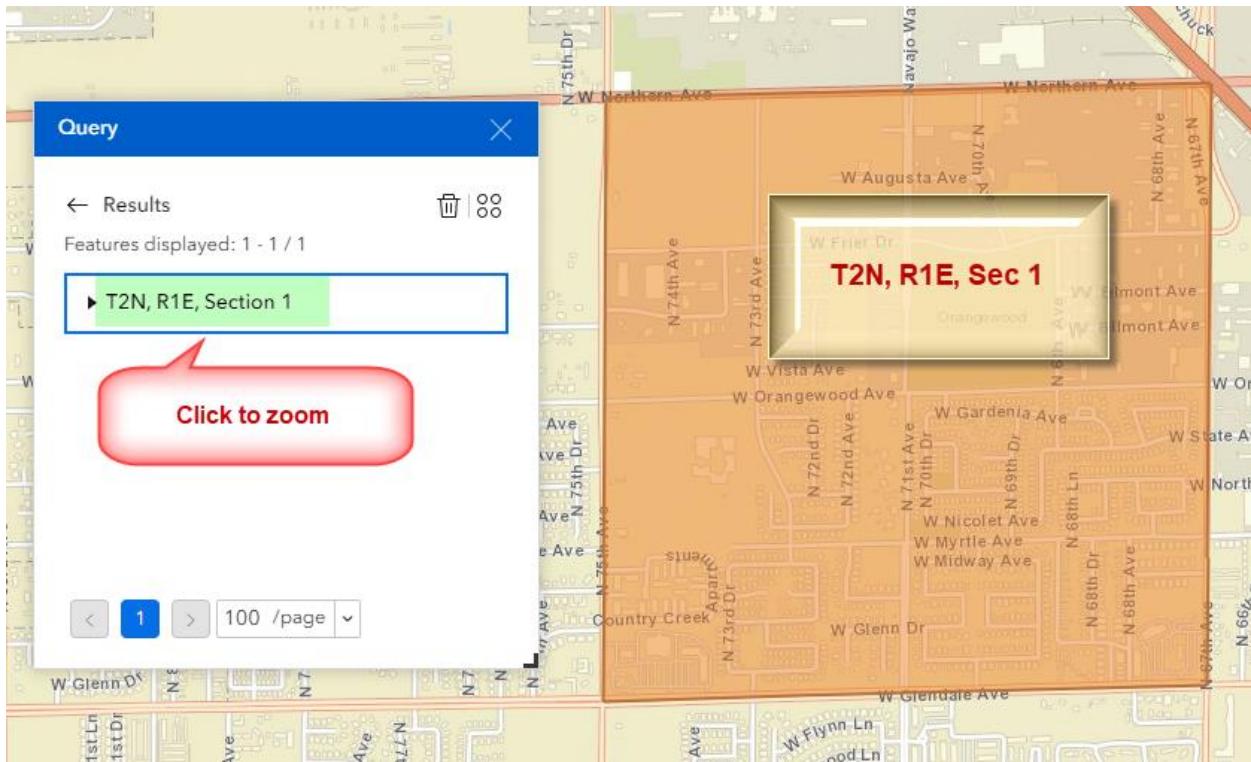
From the Township drop-down list, select T2N



Press **Apply**

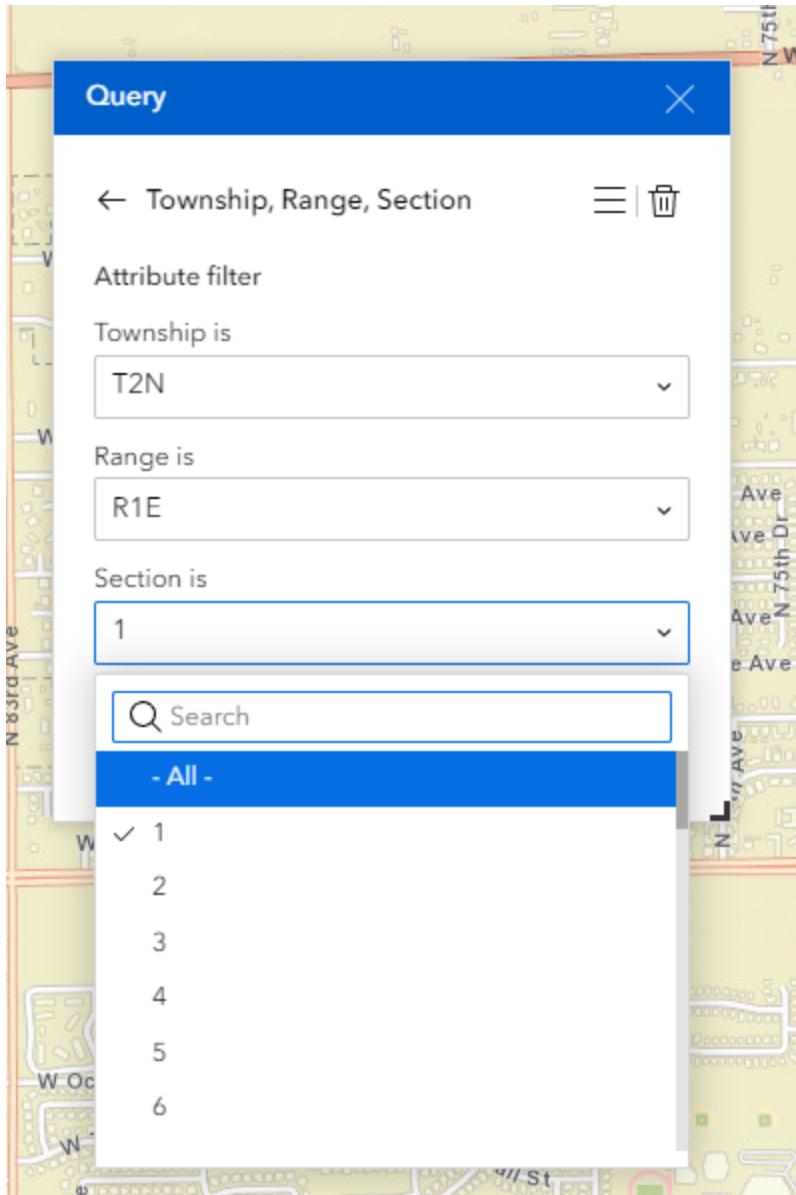


Click on the result to zoom to the Township.

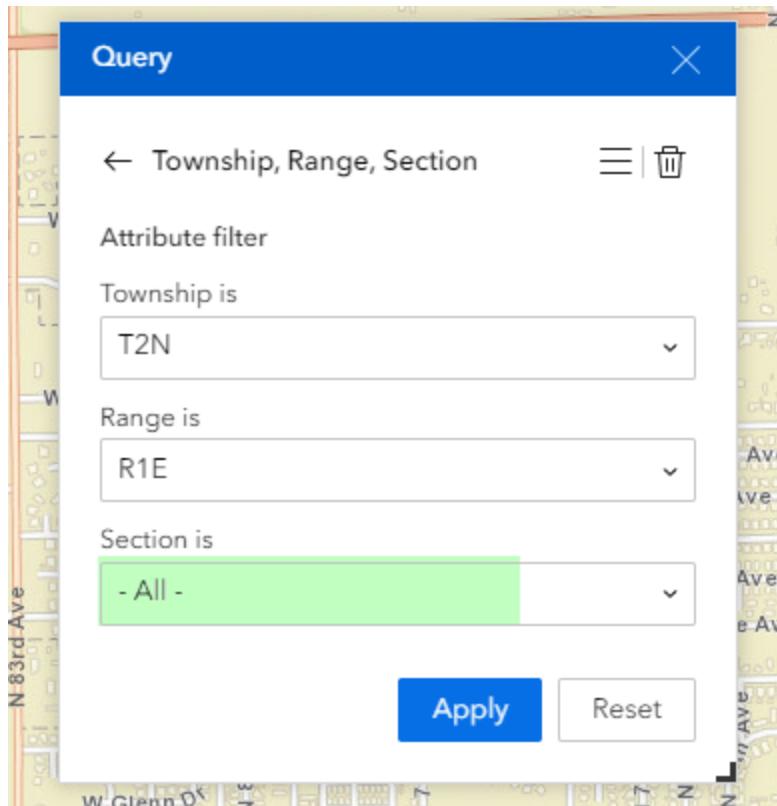


Rather than zooming to a specific section within a Township, you may also zoom to an entire Township.

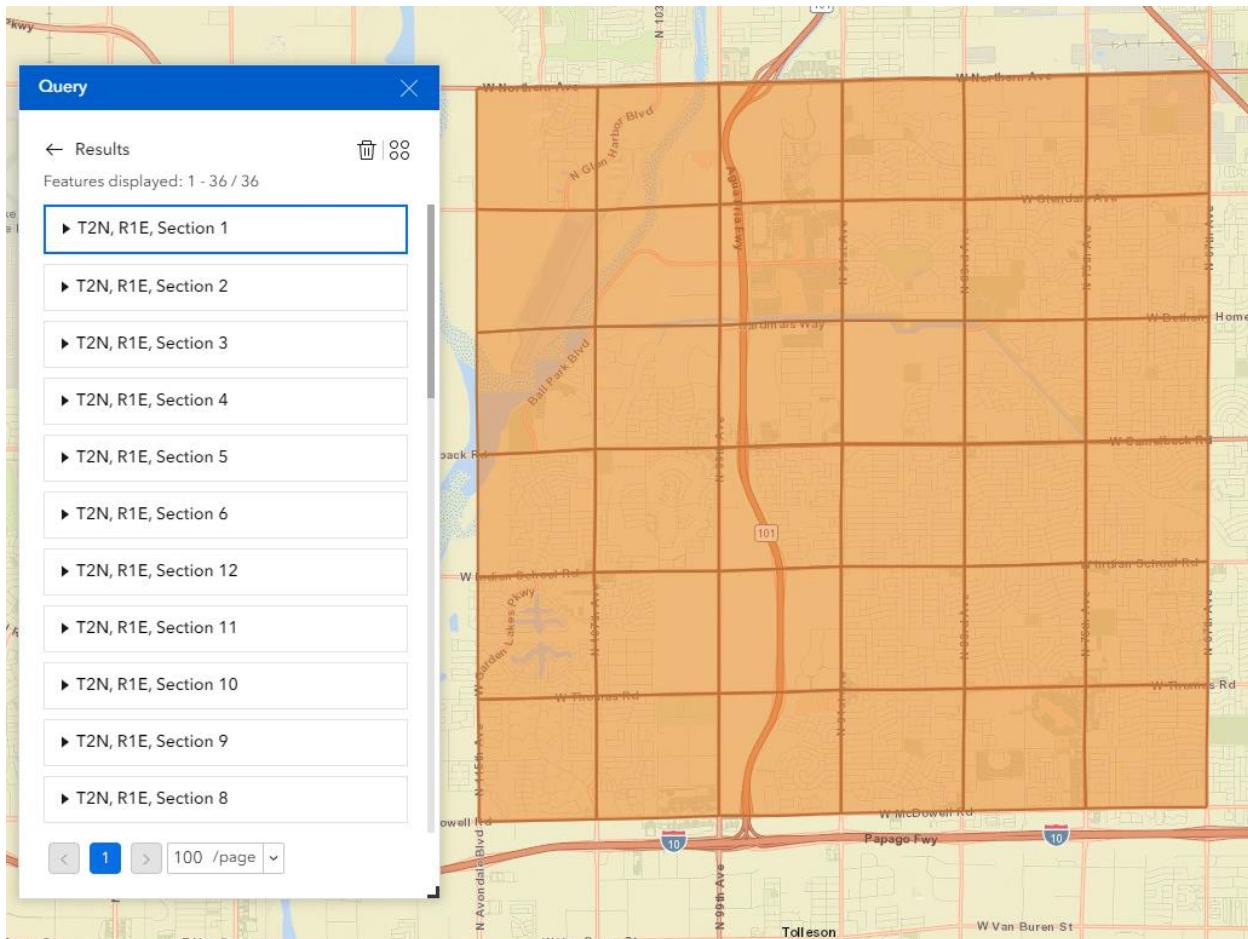
Set Section to All.



## Apply

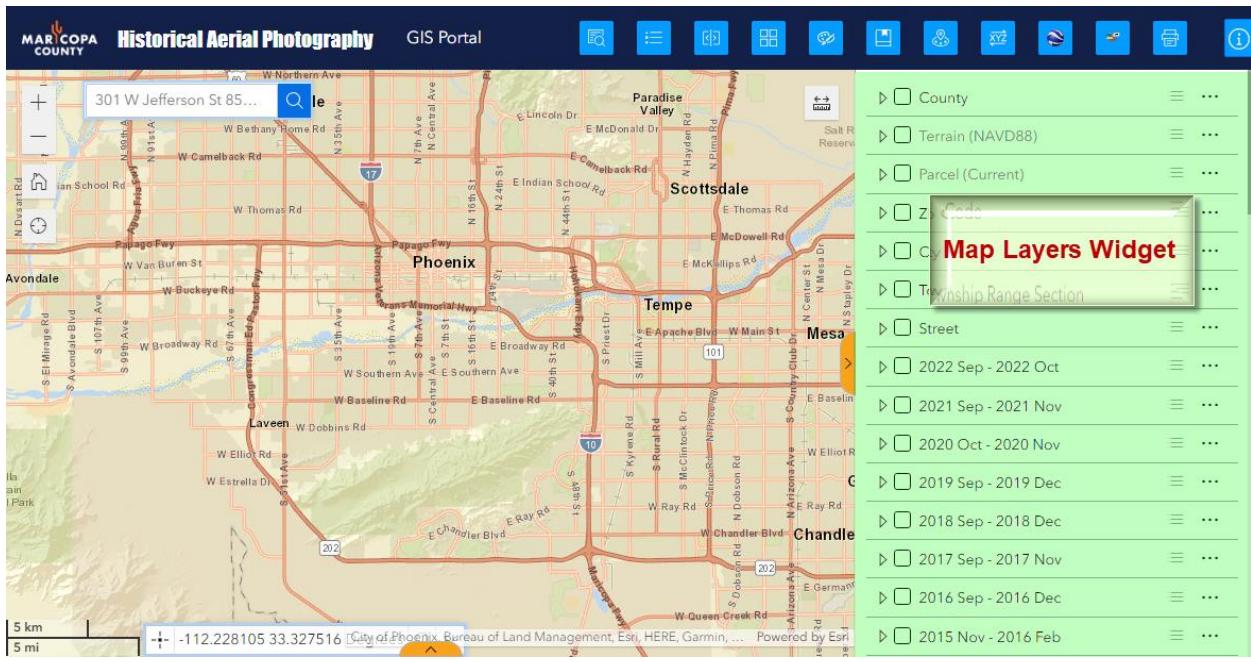


The map will zoom to Township T2N, Range R1E showing all 36 sections highlighted in orange.

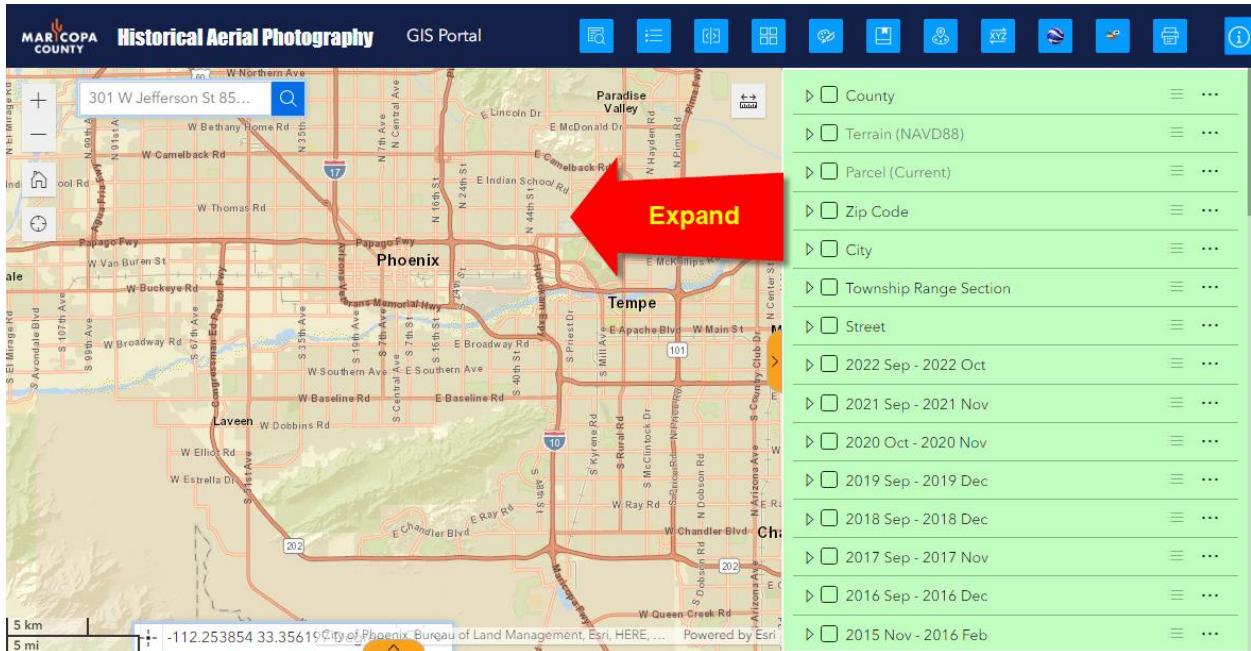


## Map Layers Widget

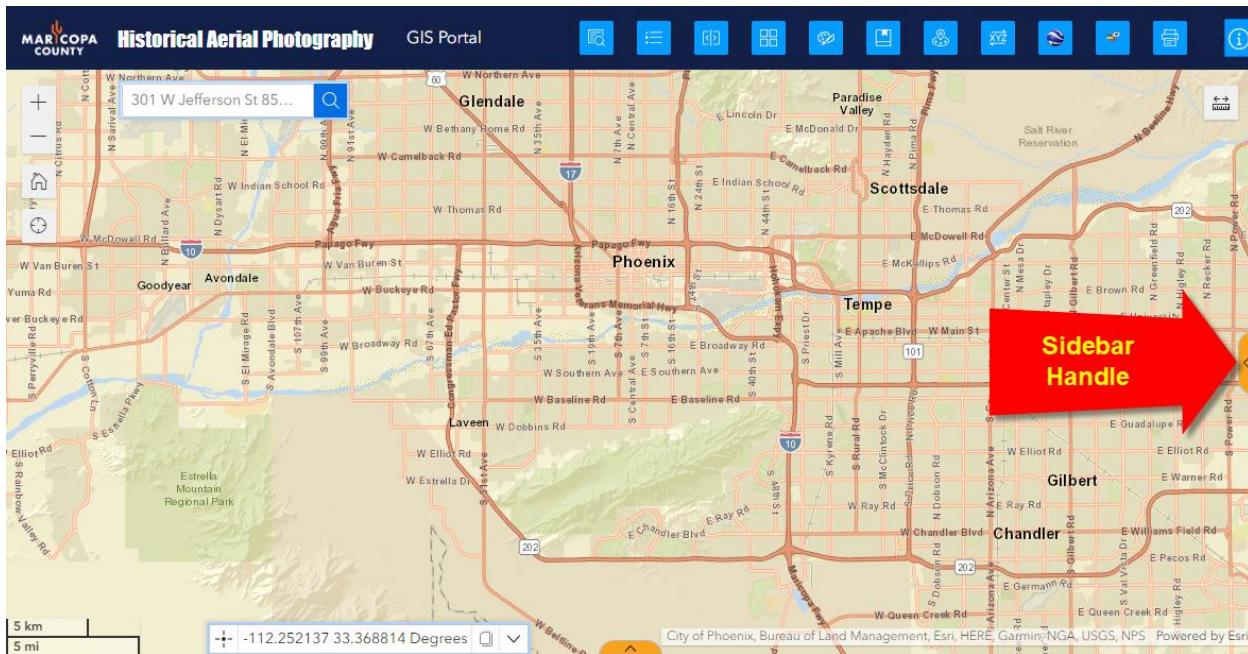
The Map Layers Widget is housed within the Sidebar Panel on the right.



You can expand or contract the width of this Sidebar Panel.



You can collapse the Sidebar Panel by clicking on the Sidebar Handle.



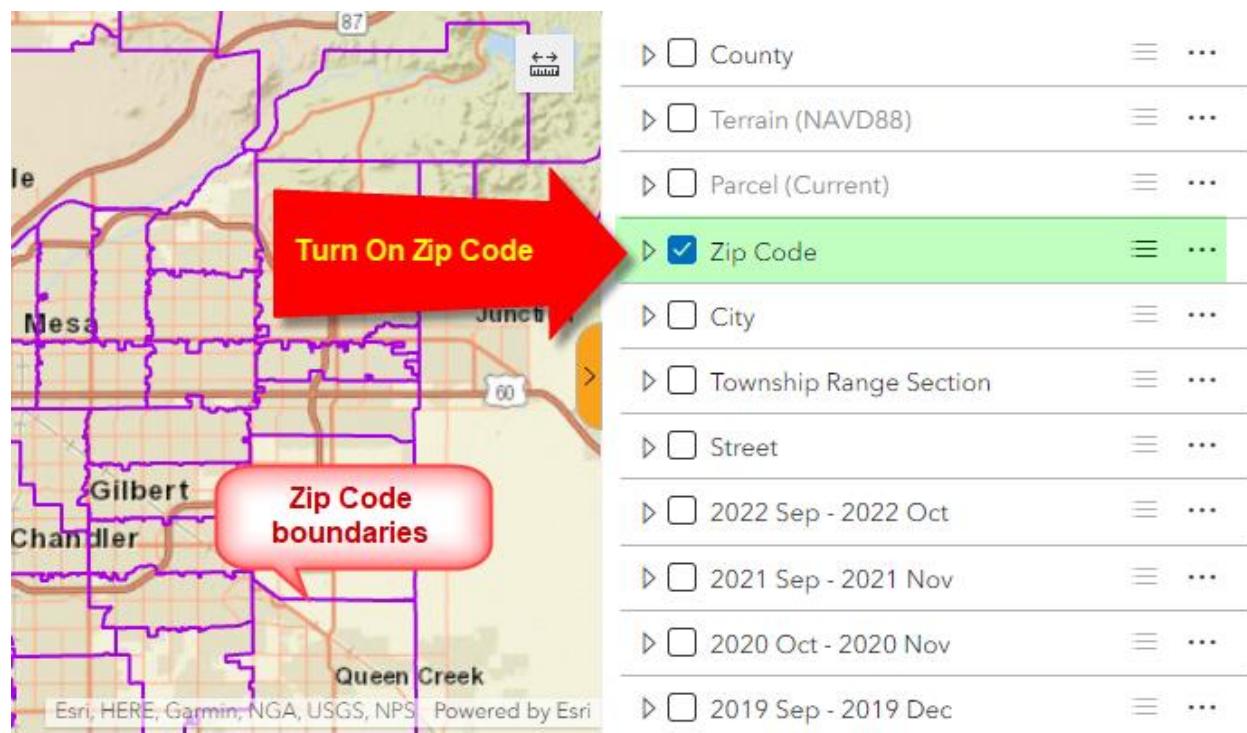
Zoom out to the default map extent. Make sure all layers have been turned off.

All Layers Off

- County
- Terrain (NAVD88)
- Parcel (Current)
- Zip Code
- City
- Township Range Section
- Street
- 2022 Sep - 2022 Oct
- 2021 Sep - 2021 Nov
- 2020 Oct - 2020 Nov
- 2019 Sep - 2019 Dec

Turn on the **Zip Code** layer by checking the visibility box.

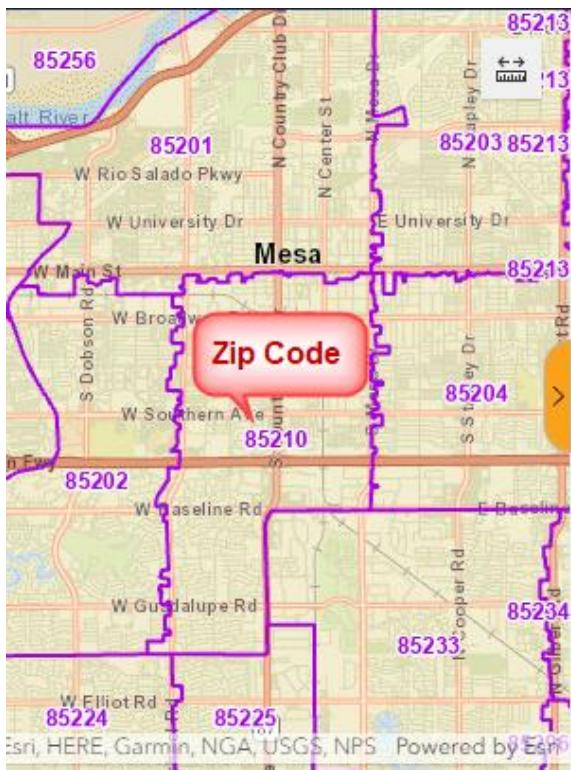
The Zip Code boundaries will appear in purple.



The display is scale dependent.

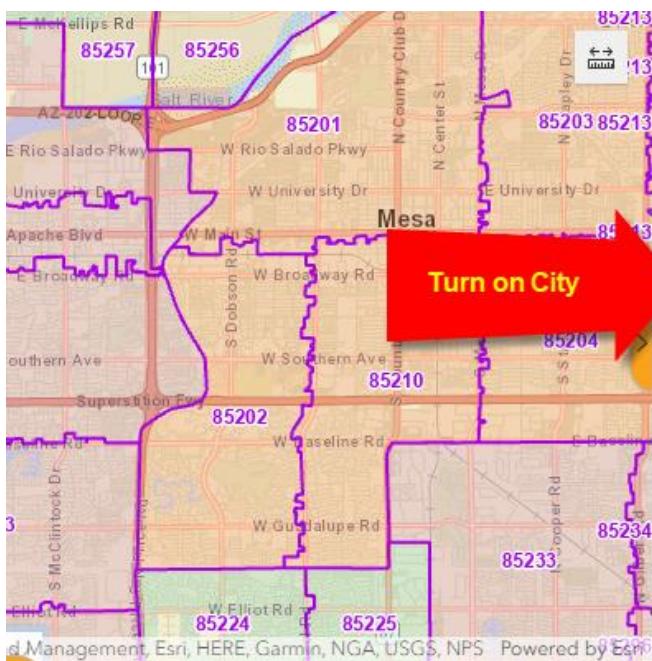
As you zoom in you will begin to see more details.

The Zip Code values will show up.



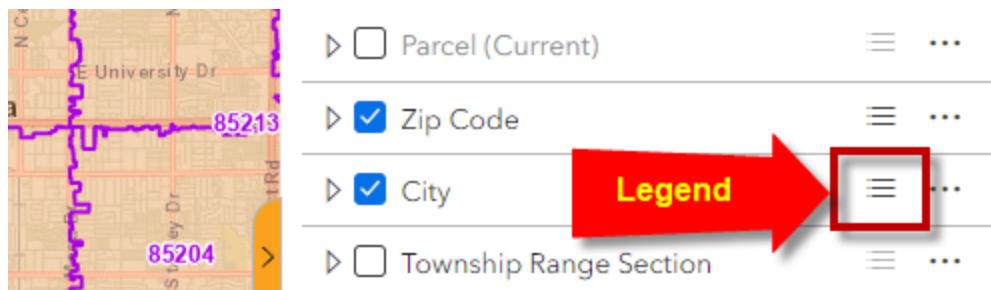
- ▶  County ...
- ▶  Terrain (NAVD88) ...
- ▶  Parcel (Current) ...
- ▶  Zip Code ...
- ▶  City ...
- ▶  Township Range Section ...
- ▶  Street ...
- ▶  2022 Sep - 2022 Oct ...
- ▶  2021 Sep - 2021 Nov ...
- ▶  2020 Oct - 2020 Nov ...
- ▶  2019 Sep - 2019 Dec ...

Turn on the City Layer.

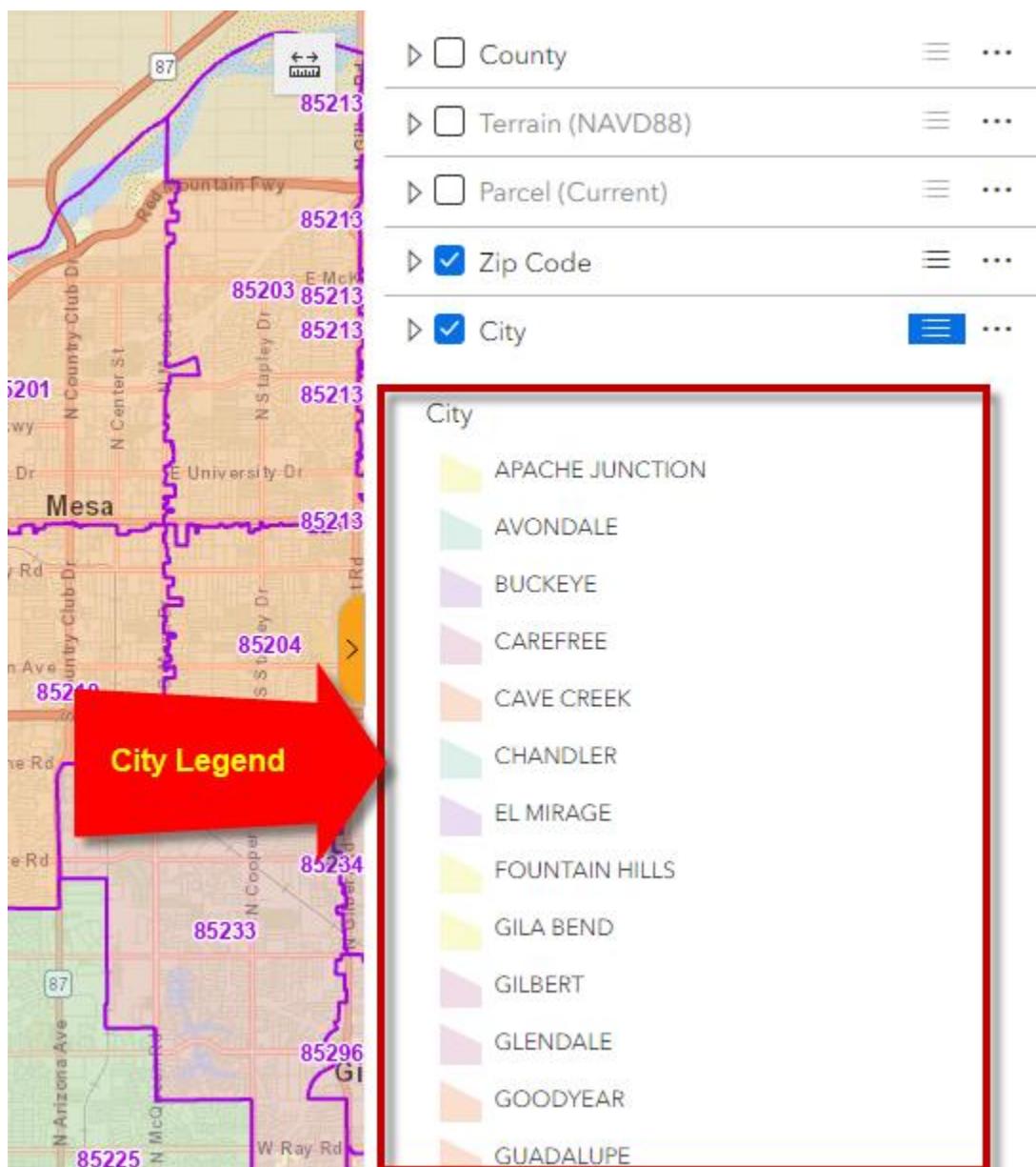


- ▶  County ...
- ▶  Terrain (NAVD88) ...
- ▶  Parcel (Current) ...
- ▶  Zip Code ...
- ▶  City ...
- ▶  Township Range Section ...
- ▶  Street ...
- ▶  2022 Sep - 2022 Oct ...
- ▶  2021 Sep - 2021 Nov ...
- ▶  2020 Oct - 2020 Nov ...
- ▶  2019 Sep - 2019 Dec ...

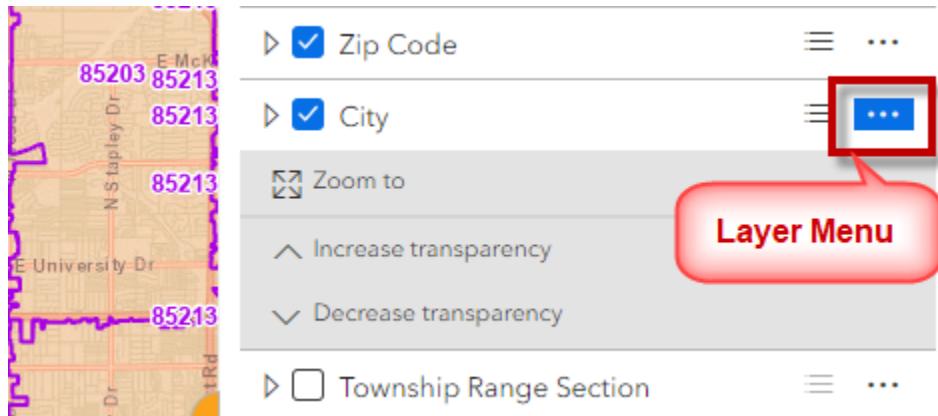
Click on the **Legend Icon** next to the City Layer.



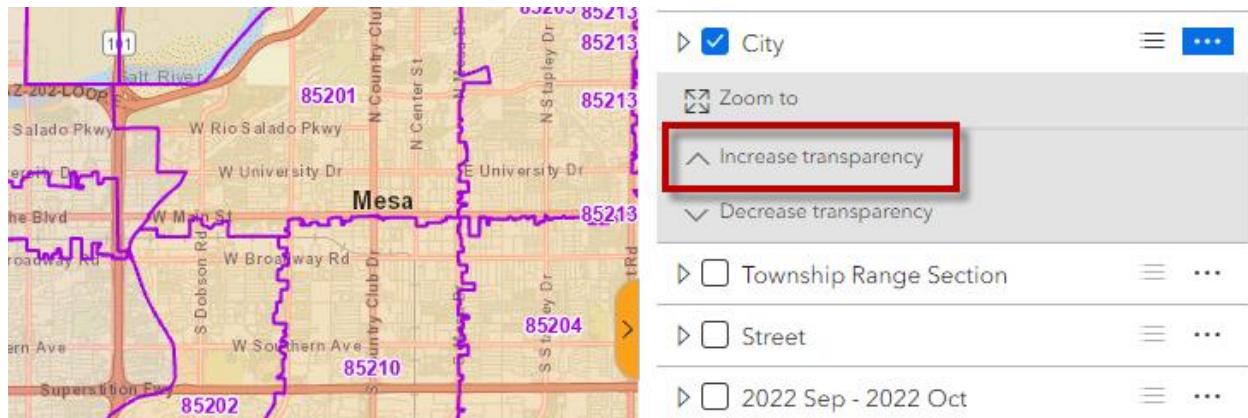
The City Legend will appear.



Expand the Layer Menu to see more options.



You can increase the Layer Transparency for improved visibility.

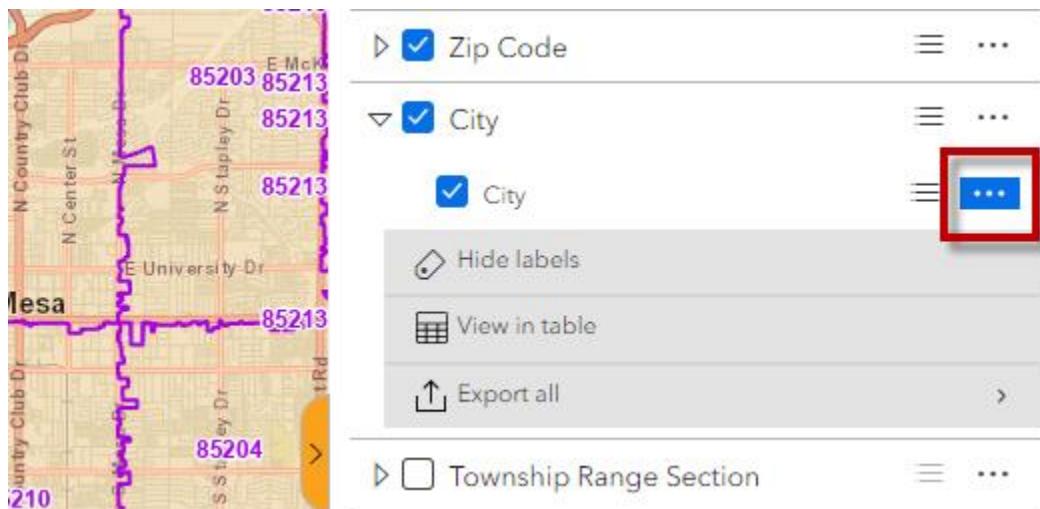


Expand the City Layer.

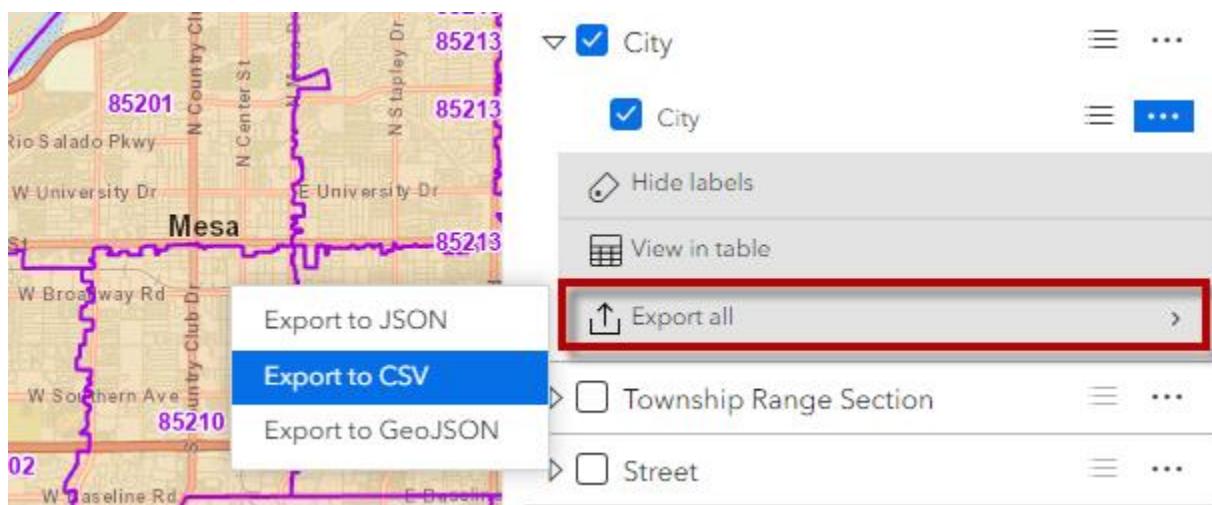


There is a City layer nested within.

Open the **Menu** to see additional options.



Export All to a CSV file.

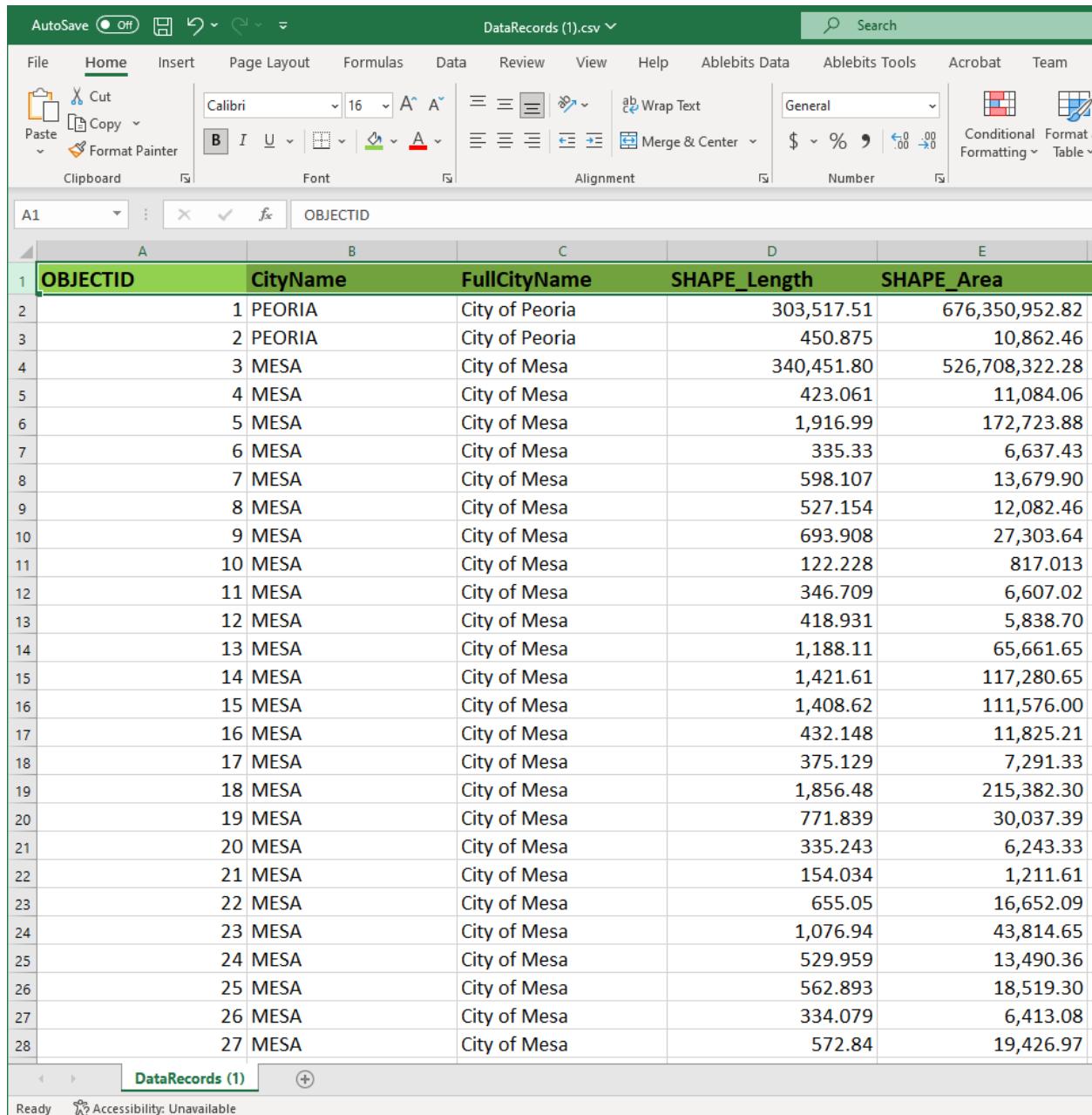


Open your Downloads folder:

DataRecords.csv	8/3/2023 5:32 PM	Microsoft Excel Comma Sep...	7 KB
DataRecords (1).csv	8/3/2023 7:18 PM	Microsoft Excel Comma Sep...	53 KB

Open this CSV file in Excel.

You will get an Excel Table with a list of all the Cities and Towns in Maricopa County.

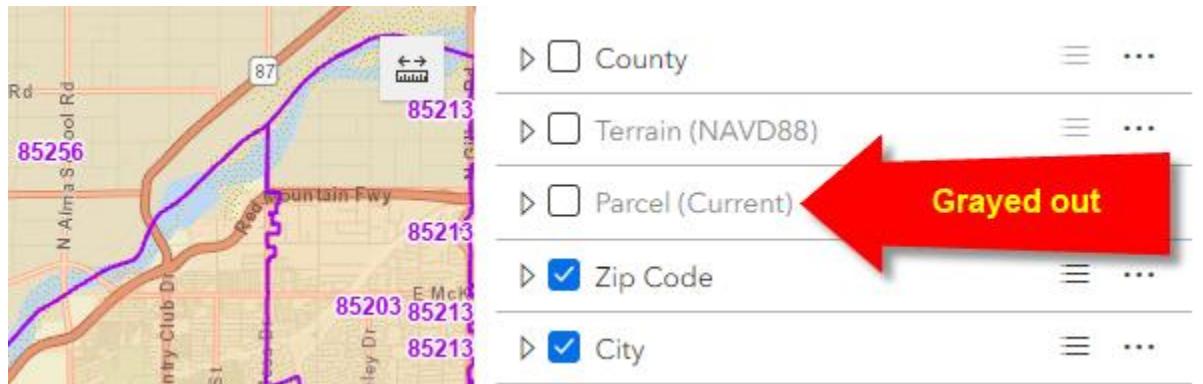


The screenshot shows a Microsoft Excel spreadsheet titled "DataRecords (1).csv". The table contains five columns: OBJECTID, CityName, FullCityName, SHAPE\_Length, and SHAPE\_Area. The data consists of 28 rows, where the first row is a header and the subsequent 27 rows list various cities, mostly MESA, with their corresponding names, full names, lengths, and areas. The Excel ribbon is visible at the top, showing the Home tab is selected. The table has a green header row and a light gray background for the data rows.

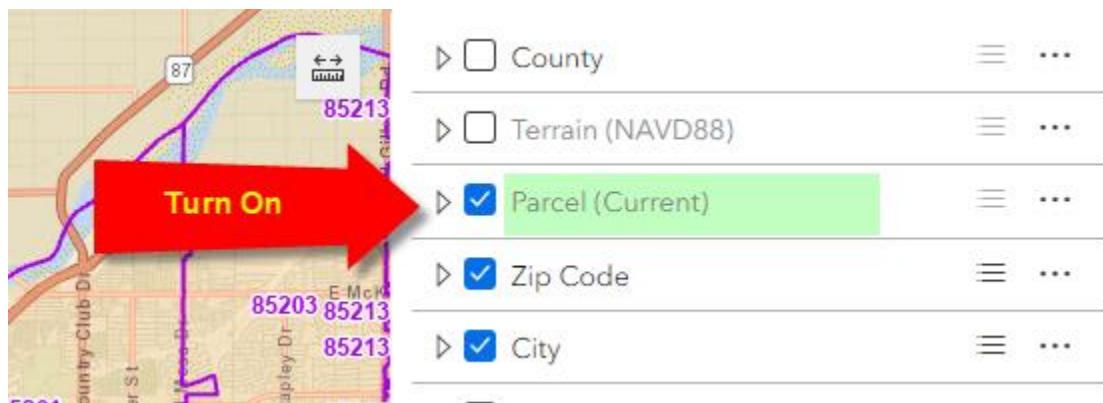
OBJECTID	CityName	FullCityName	SHAPE_Length	SHAPE_Area
1	PEORIA	City of Peoria	303,517.51	676,350,952.82
2	PEORIA	City of Peoria	450.875	10,862.46
3	MESA	City of Mesa	340,451.80	526,708,322.28
4	MESA	City of Mesa	423.061	11,084.06
5	MESA	City of Mesa	1,916.99	172,723.88
6	MESA	City of Mesa	335.33	6,637.43
7	MESA	City of Mesa	598.107	13,679.90
8	MESA	City of Mesa	527.154	12,082.46
9	MESA	City of Mesa	693.908	27,303.64
10	MESA	City of Mesa	122.228	817.013
11	MESA	City of Mesa	346.709	6,607.02
12	MESA	City of Mesa	418.931	5,838.70
13	MESA	City of Mesa	1,188.11	65,661.65
14	MESA	City of Mesa	1,421.61	117,280.65
15	MESA	City of Mesa	1,408.62	111,576.00
16	MESA	City of Mesa	432.148	11,825.21
17	MESA	City of Mesa	375.129	7,291.33
18	MESA	City of Mesa	1,856.48	215,382.30
19	MESA	City of Mesa	771.839	30,037.39
20	MESA	City of Mesa	335.243	6,243.33
21	MESA	City of Mesa	154.034	1,211.61
22	MESA	City of Mesa	655.05	16,652.09
23	MESA	City of Mesa	1,076.94	43,814.65
24	MESA	City of Mesa	529.959	13,490.36
25	MESA	City of Mesa	562.893	18,519.30
26	MESA	City of Mesa	334.079	6,413.08
27	MESA	City of Mesa	572.84	19,426.97

The layer visibility is scale dependent.

Notice that the Parcel Layer is grayed out.

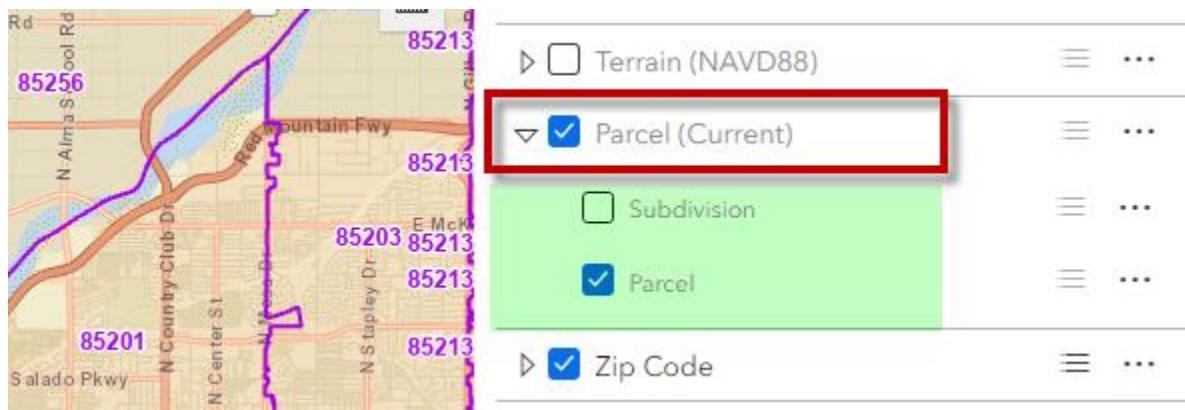


If you check this layer to turn it on, nothing will draw.



Expand the Parcel Layer.

There are two sublayers within the Parcel Layer Group.



Turn on the Subdivision Layer and the Parcel Layer.

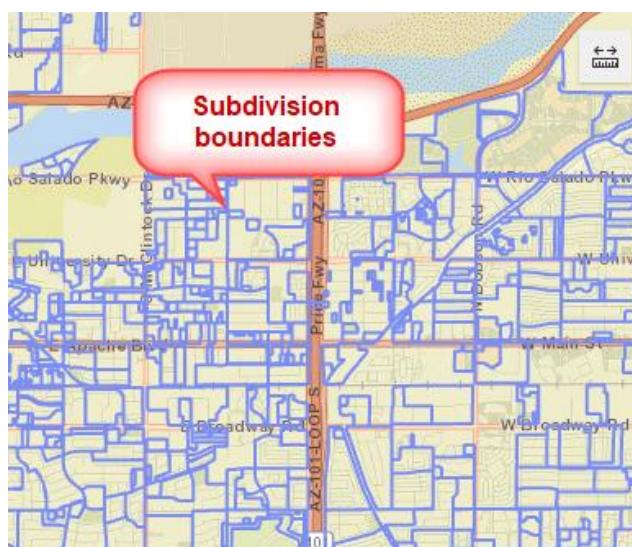
Turn everything else off.



The screenshot shows a map of Mesa, Arizona, with various streets labeled. To the right of the map is a legend panel. A large red arrow points to the 'Subdivision' checkbox under the 'Parcel (Current)' section. The 'Parcel (Current)' section is highlighted with a green background, indicating it is selected. Other layers listed in the legend include Terrain (NAVD88), Zip Code, and City.

- ▷  Terrain (NAVD88)
- ▷  **Parcel (Current)**
  - Subdivision
  - Parcel
- ▷  Zip Code
- ▷  City

Click on the **Zoom In Tool** one step at a time to see how layer visibility is tied to the scale threshold.



The screenshot shows a detailed view of a map area in Mesa, Arizona, focusing on subdivision boundaries. A red speech bubble points to the 'Subdivision boundaries' on the map. The map shows a complex network of streets and subdivisions. To the right is a legend panel with the following layers listed, all with checkboxes checked:

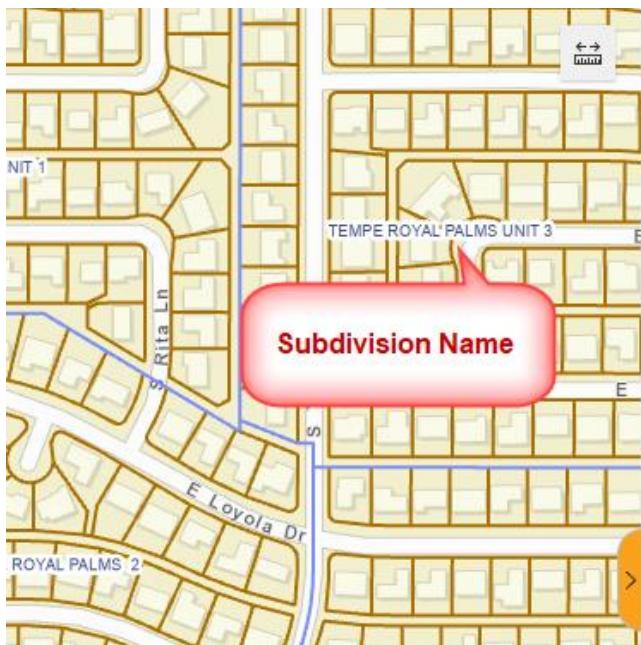
- ▷  County
- ▷  Terrain (NAVD88)
- ▷  **Parcel (Current)**
  - Subdivision
  - Parcel
- ▷  Zip Code
- ▷  City
- ▷  Township Range Section
- ▷  Street

Parcel Boundaries will begin to appear.



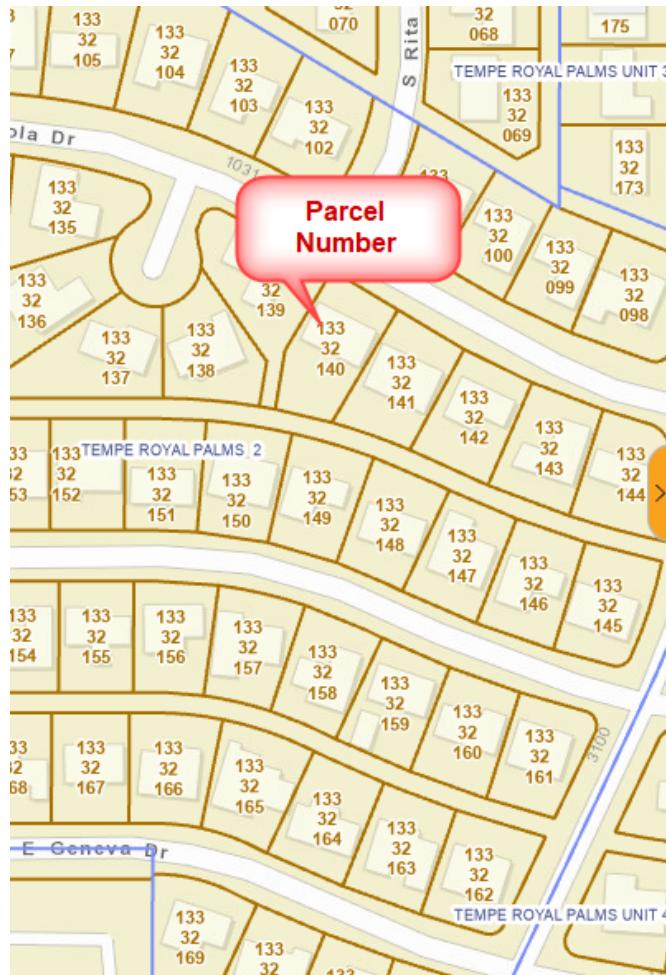
- ▷  Terrain (NAVD88) ...
- ▽  Parcel (Current) ...
  - Subdivision
  - Parcel
- ▷  Zip Code ...
- ▷  City ...
- ▷  Township Range Section ...
- ▷  Street ...

Subdivision Names will begin to appear.



- ▷  County ...
- ▷  Terrain (NAVD88) ...
- ▽  Parcel (Current) ...
  - Subdivision
  - Parcel
- ▷  Zip Code ...
- ▷  City ...
- ▷  Township Range Section ...
- ▷  Street ...
- ▷  2022 Sep - 2022 Oct ...

Parcel Numbers will begin to appear.

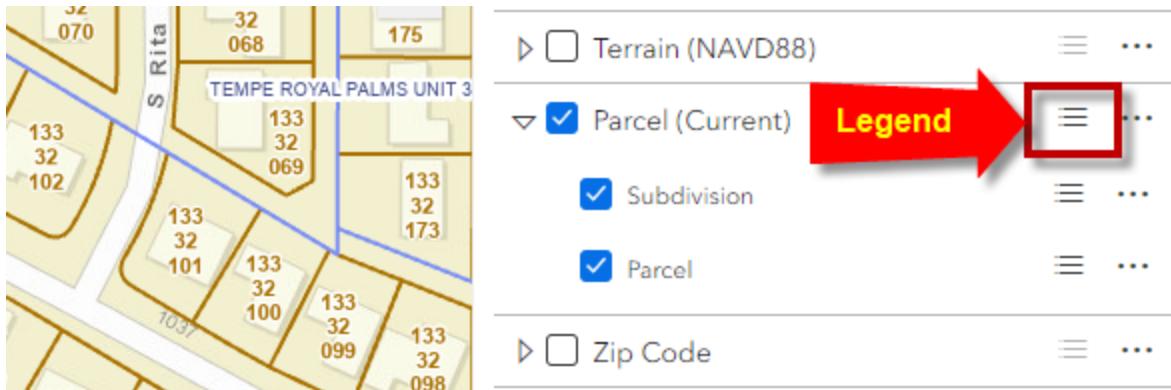


- ▶  Terrain (NAVD88) ≡ ...
- ▶  Parcel (Current) ≡ ...
- Subdivision ≡ ...
- Parcel ≡ ...
- ▶  Zip Code ≡ ...
- ▶  City ≡ ...
- ▶  Township Range Section ≡ ...
- ▶  Street ≡ ...
- ▶  2022 Sep - 2022 Oct ≡ ...
- ▶  2021 Sep - 2021 Nov ≡ ...
- ▶  2020 Oct - 2020 Nov ≡ ...
- ▶  2019 Sep - 2019 Dec ≡ ...
- ▶  2018 Sep - 2018 Dec ≡ ...
- ▶  2017 Sep - 2017 Nov ≡ ...
- ▶  2016 Sep - 2016 Dec ≡ ...
- ▶  2015 Nov - 2016 Feb ≡ ...

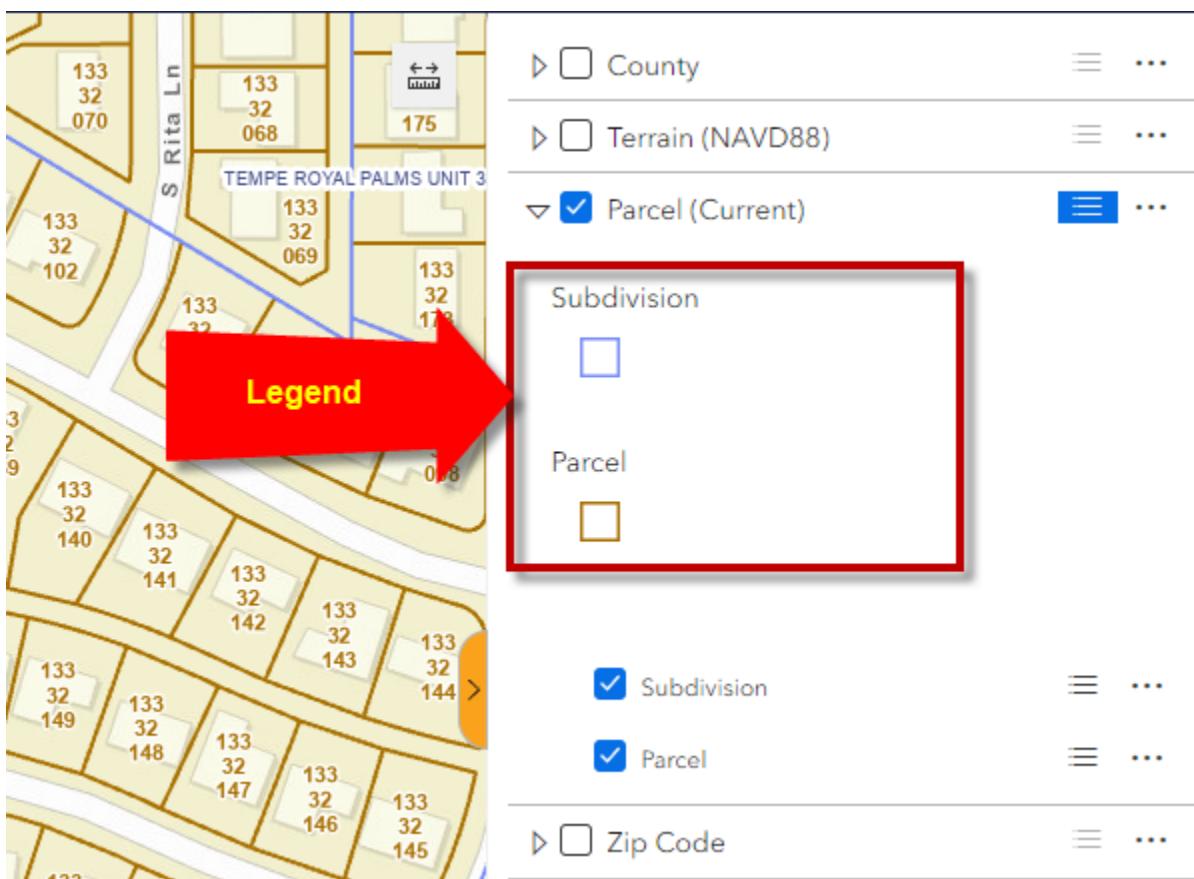
Setting scale thresholds helps to reduce map clutter.

More information is revealed as you zoom in closer.

Click on the Legend Icon next to the Parcel Layer Group.



This will reveal the Legend.



Turn on the 2022 Aerials.

The screenshot shows a map of a residential area with buildings labeled BRENTVIEW CONDOMINIUMS and TEMPE ROYAL PALMS. A red arrow points to the '2022 Aerials' layer group in the legend on the right, which is highlighted in green. The legend also includes other options like County, Terrain (NAVD88), Parcel (Current), Zip Code, City, Township Range Section, Street, and various time periods from 2012 to 2022.

Expand the 2022 Aerials Layer Group.

The screenshot shows the same residential area with buildings labeled BRENTVIEW CONDOMINIUMS and TEMPE ROYAL PALMS. A red arrow points to the '2022 Sep - 2022 Oct' sub-layer in the expanded 2022 Aerials layer group, which is highlighted in green. The sub-layer also includes 'Footprint' and '2022 Sep - 2022 Oct Aerial Image' options. Other layers like Township Range Section, Street, and various time periods are also listed.

Turn on the Footprint Layer.

Turn off the Parcel Layer.

You will see the Tile Boundaries in purple.

You will get the information on the exact Flight Date, the resolution of the aerial image and the Tile Number.

Example:

Flight Date = 10/12/2022

Resolution = 0.25 ft

Tile Number = 700870



Turn on the 2021 Aerials.

Date: 10/12/2022  
Pixel: 0.25 ft  
Tile: 700870

2021 Aerials

Map Layer	Status	Action
Street	<input type="checkbox"/>	...
2022 Sep - 2022 Oct	<input checked="" type="checkbox"/>	...
Footprint	<input checked="" type="checkbox"/>	...
2022 Sep - 2022 Oct Aerial Image	<input checked="" type="checkbox"/>	...
2021 Sep - 2021 Nov	<input checked="" type="checkbox"/>	...
2020 Oct - 2020 Nov	<input type="checkbox"/>	...
2019 Sep - 2019 Dec	<input type="checkbox"/>	...
2018 Sep - 2018 Dec	<input type="checkbox"/>	...
2017 Sep - 2017 Nov	<input type="checkbox"/>	...
2016 Sep - 2016 Dec	<input type="checkbox"/>	...

Notice that it does not show up.

The reason being these map layers are drawn in the order they are stacked in the Map Layers Widget.

Layers on top will mask layers beneath them.

Turn off the 2022 Aerials.

This makes the 2021 Aerials visible.

2021 Aerials

Map Layer	Status	Action
Street	<input type="checkbox"/>	...
2022 Sep - 2022 Oct	<input type="checkbox"/>	...
Footprint	<input checked="" type="checkbox"/>	...
2022 Sep - 2022 Oct Aerial Image	<input checked="" type="checkbox"/>	...
2021 Sep - 2021 Nov	<input checked="" type="checkbox"/>	...
2020 Oct - 2020 Nov	<input type="checkbox"/>	...
2019 Sep - 2019 Dec	<input type="checkbox"/>	...
2018 Sep - 2018 Dec	<input type="checkbox"/>	...
2017 Sep - 2017 Nov	<input type="checkbox"/>	...
2016 Sep - 2016 Dec	<input type="checkbox"/>	...

Expand the 2021 Aerials Layer Group.

Turn on the Footprint Layer nested within this Layer Group.

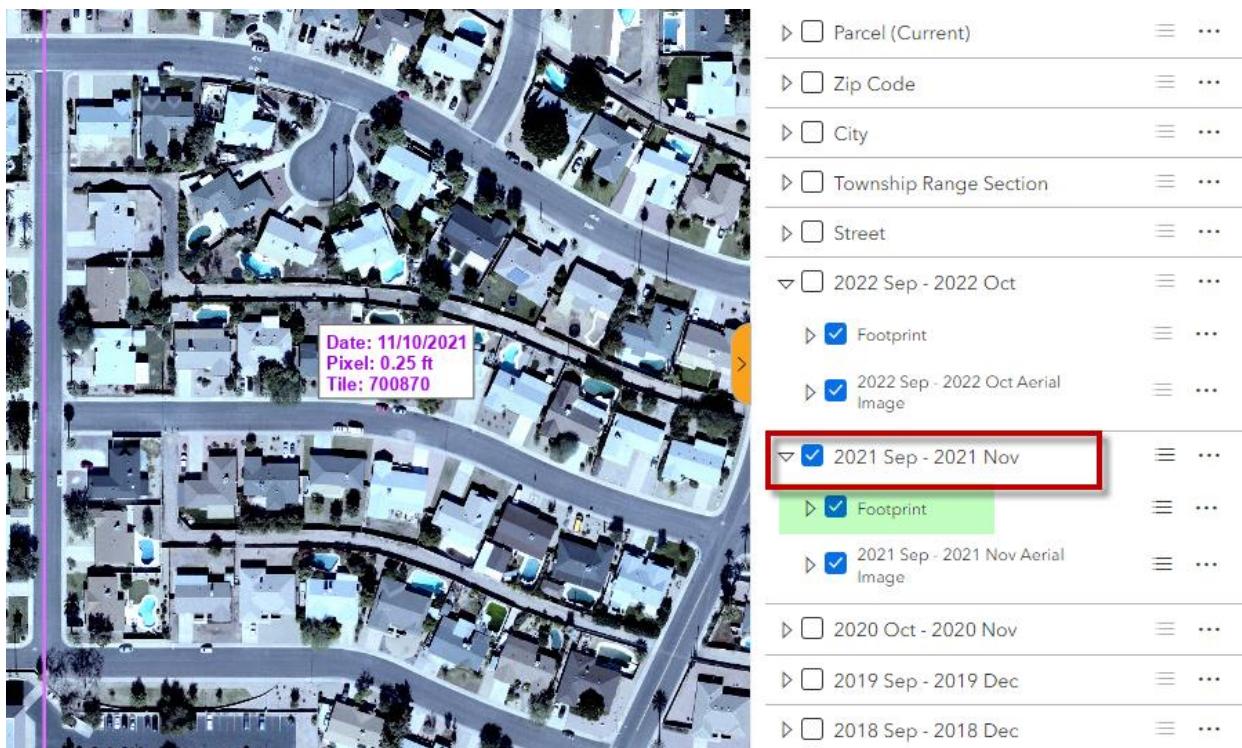
You will see the Footprint Information.

Example:

Flight Date = 11/10/2021

Resolution = 0.25 ft

Tile Number = 700870



Turn off the 2021 Aerials.

Turn on the 2004 Aerials.



- ▷  2008 Oct - 2008 Dec ⌂ ...
- ▷  2007 Oct - 2008 Jan ⌂ ...
- ▷  2007 Jun - 2007 Jul Statewide ⌂ ...
- ▷  2006 Oct - 2006 Nov ⌂ ...
- ▷  2006 Jan - 2006 Feb ⌂ ...
- ▷  2005 Apr - 2005 Apr ⌂ ...
- ▷  2004 Nov - 2004 Dec ⌂ ...
- ▷  2003 Dec - 2004 Jan ⌂ ...
- ▷  2003 Oct - 2003 Oct ⌂ ...
- ▷  2002 Dec - 2002 Dec ⌂ ...

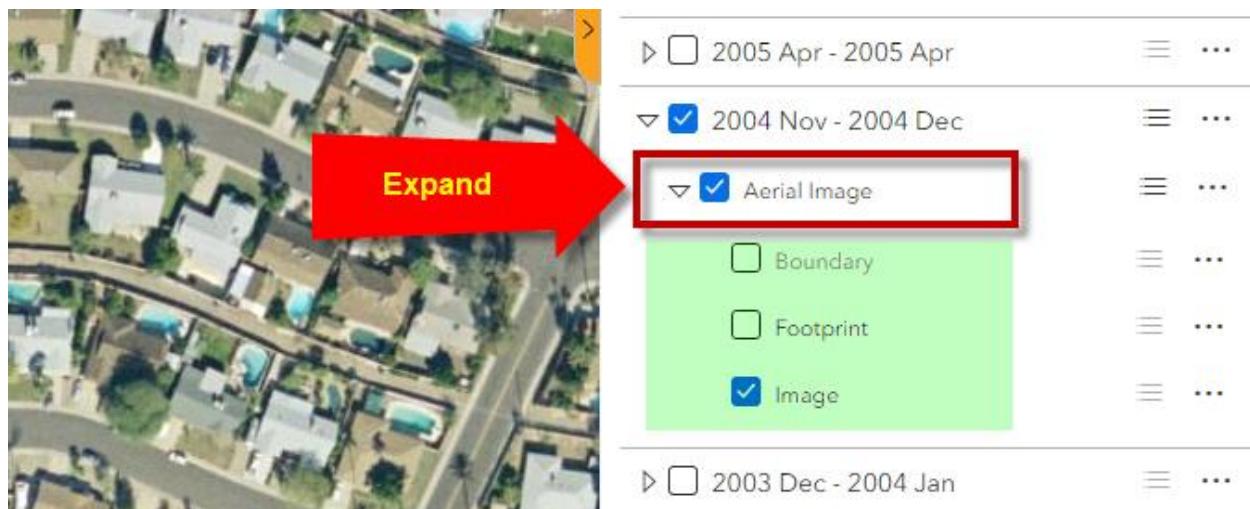
Expand this Layer Group.

You will find another Layer Group named Aerial Image.



- ▷  2005 Apr - 2005 Apr ⌂ ...
- ▽  2004 Nov - 2004 Dec ⌂ ...
  - ▷  Aerial Image ⌂ ...
- ▷  2003 Dec - 2004 Jan ⌂ ...

Expand the Aerial Image Layer Group.



Turn on the Footprint Layer.

You will see the Tile Boundaries drawn in purple, and the Footprint information.

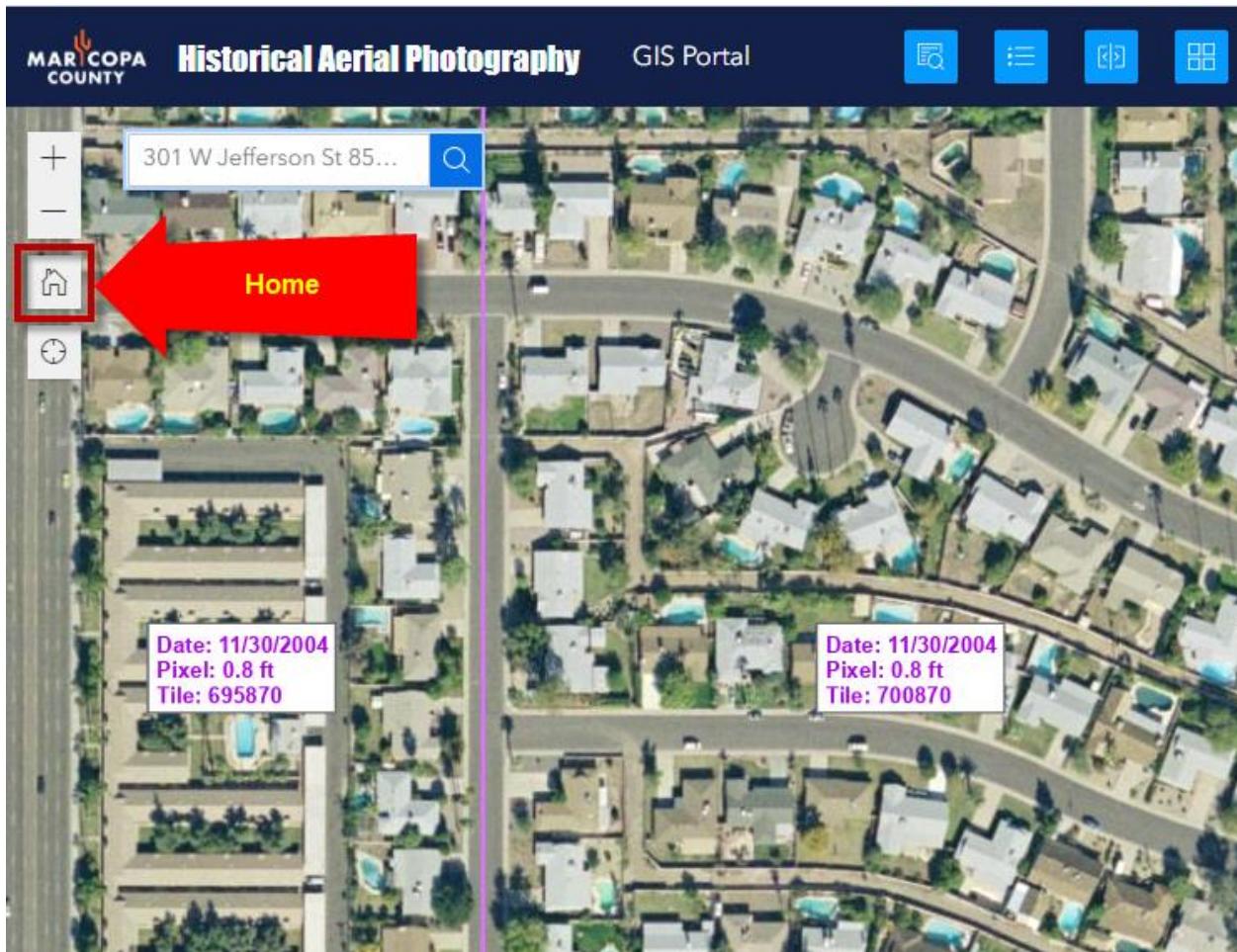
Flight Date = 11/30/2004

Resolution = 0.8 ft

Tile Number = 700870



Click on the Home Button to zoom out to the default map view.



Turn off all the Layers in the Map Layers Widget.

The screenshot shows a map of the Phoenix, Arizona, area with various cities labeled: Surprise, El Mirage, Peoria, Glendale, Phoenix, Laveen, Goodyear, Avondale, Tempe, Mesa, Gilbert, Chandler, and Scottsdale. The map includes street names and major highways like I-17, I-10, and SR 101. A search bar at the top left shows the address "301 W Jefferson St 85...". To the right of the map is a "Map Layers" widget with a title "Turn off all Layers" and a large red arrow pointing to it. The widget lists 24 different map layers, each with a checkbox and a "More" button. The layers are: County, Terrain (NAVD88), Parcel (Current), Zip Code, City, Township Range Section, Street, and a series of monthly time periods from 2012 to 2022.

Layer	Time Period	More
County		...
Terrain (NAVD88)		...
Parcel (Current)		...
Zip Code		...
City		...
Township Range Section		...
Street		...
2022 Sep - 2022 Oct		...
2021 Sep - 2021 Nov		...
2020 Oct - 2020 Nov		...
2019 Sep - 2019 Dec		...
2018 Sep - 2018 Dec		...
2017 Sep - 2017 Nov		...
2016 Sep - 2016 Dec		...
2015 Nov - 2016 Feb		...
2014 Sep - 2014 Nov		...
2013 Sep - 2013 Nov		...
2012 Oct - 2012 Dec		...

Turn on the 2022 Aerials.

It covers all of Maricopa County.

The screenshot shows a satellite map of Maricopa County, specifically the city of Phoenix. The map displays urban areas, roads, and surrounding desert terrain. In the top left corner, there's a search bar with the address "301 W Jefferson St 85..." and a magnifying glass icon. The top right corner features a "GIS Portal" link and various map navigation icons. On the left side of the map, there's a vertical legend sidebar with several categories: County, Terrain (NAVD88), Parcel (Current), Zip Code, City, Township Range Section, Street, and a section for historical aerial photography. The "2022 Sep - 2022 Oct" option is highlighted with a red arrow and a checked checkbox. Below this, other options are listed chronologically from 2012 to 2021. At the bottom of the map, there's a scale bar showing "10 km" and "6 mi", along with coordinates "-111.815313 33.365988". The bottom right corner contains copyright information: "PHX GIS, City of Phoenix, Bureau of Land Management, Esri, HERE... Powered by Esri".

Category	Period	Status
County		unchecked
Terrain (NAVD88)		unchecked
Parcel (Current)		unchecked
Zip Code		unchecked
City		unchecked
Township Range Section		unchecked
Street		unchecked
2022 Sep - 2022 Oct		checked
2021 Sep - 2021 Nov		unchecked
2020 Oct - 2020 Nov		unchecked
2019 Sep - 2019 Dec		unchecked
2018 Sep - 2018 Dec		unchecked
2017 Sep - 2017 Nov		unchecked
2016 Sep - 2016 Dec		unchecked
2015 Nov - 2016 Feb		unchecked
2014 Sep - 2014 Nov		unchecked
2013 Sep - 2013 Nov		unchecked
2012 Oct - 2012 Dec		unchecked

Turn off the 2022 Aerials.

Turn on the 2021 Aerials.

This one still covers all of Maricopa County.

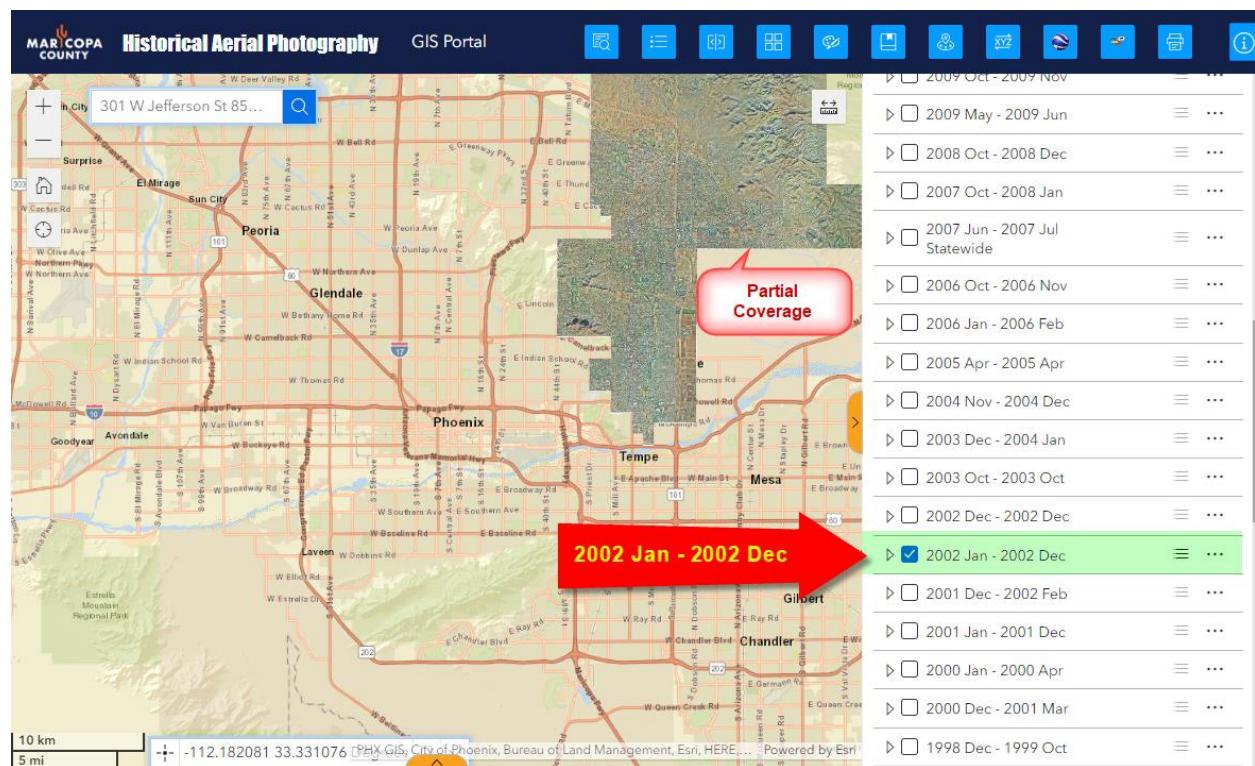
The screenshot shows a satellite map of the Phoenix metropolitan area. A search bar at the top left contains the address "301 W Jefferson St 85...". The legend on the right lists various map layers, with the "2021 Sep - 2021 Nov" option checked, highlighted by a red arrow. The bottom of the screen displays a coordinate reference (-111.967991 33.385220) and credits to PHX GIS, City of Phoenix, Bureau of Land Management, Esri, HERE, and others. A scale bar indicates 10 km and 5 mi.

Layer	Status
County	unchecked
Terrain (NAVD88)	unchecked
Parcel (Current)	unchecked
Zip Code	unchecked
City	unchecked
Township Range Section	unchecked
Street	unchecked
2022 Sep - 2022 Oct	unchecked
2021 Sep - 2021 Nov	checked
2020 Oct - 2020 Nov	unchecked
2019 Sep - 2019 Dec	unchecked
2018 Sep - 2018 Dec	unchecked
2017 Sep - 2017 Nov	unchecked
2016 Sep - 2016 Dec	unchecked
2015 Nov - 2016 Feb	unchecked
2014 Sep - 2014 Nov	unchecked
2013 Sep - 2013 Nov	unchecked
2012 Oct - 2012 Dec	unchecked

Keep repeating this cycle as you step through all the past Aerials.

Turn on the 2002 Jan – 2002 Dec Aerials.

Notice this has partial coverage.



All the Historical Aerials starting with 2000 Jan – 2000 Apr and older are in **black and white**.

Turn on the 2000 Jan – 2000 Apr Aerials.

The screenshot shows a historical aerial photograph of a residential area in Phoenix, Arizona. The map includes a search bar with the address "301 W Jefferson St 85..." and a zoom control. On the right side, there is a vertical list of historical aerial periods. A large red arrow points to the entry "2000 Jan - 2000 Apr", which is highlighted with a green background. The other entries in the list are in white text on a light gray background. The list includes:

- 2009 Oct - 2009 Nov
- 2009 May - 2009 Jun
- 2008 Oct - 2008 Dec
- 2007 Oct - 2008 Jan
- 2007 Jun - 2007 Jul Statewide
- 2006 Oct - 2006 Nov
- 2006 Jan - 2006 Feb
- 2005 Apr - 2005 Apr
- 2004 Nov - 2004 Dec
- 2003 Dec - 2004 Jan
- 2003 Oct - 2003 Oct
- 2002 Dec - 2002 Dec
- 2002 Jan - 2002 Dec
- 2001 Dec - 2002 Feb
- 2001 Jan - 2001 Dec
- 2000 Jan - 2000 Apr** (highlighted with a green background)
- 2000 Dec - 2001 Mar
- 1998 Dec - 1999 Oct

At the bottom of the portal, there is a scale bar (10 km / 5 mi), a coordinate display (-111.826402 33.404447), and a note about PHX GIS, City of Phoenix, Bureau of Land Management, Esri, HERE, and others. It also says "Powered by Esri".

Some have empty spots with no coverage.

Turn on the 1986 Aerials.

The screenshot shows a historical aerial photograph of a residential area in Phoenix, Arizona. A red speech bubble labeled "Empty Spots" points to a dark, irregular area on the map. A red arrow labeled "1986 Aerials" points to the 1986 Jan - 1986 Dec entry in the sidebar list of aerial coverage periods. The sidebar lists various time periods from 1969 to 2002, with the 1986 period checked. The map includes street names like E Cactus Rd, S 10th Ave, W Dobkins Rd, S 11th Ave, E Camelback Rd, E Ray Rd, and W 1st St. A scale bar indicates 10 km and 5 mi. The bottom of the screen displays copyright information for PHX GIS, City of Phoenix, Bureau of Land Management, Esri, and BAE.

Period	Status
2002 Dec - 2002 Dec	unchecked
2002 Jan - 2002 Dec	unchecked
2001 Dec - 2002 Feb	unchecked
2001 Jan - 2001 Dec	unchecked
2000 Jan - 2000 Apr	unchecked
2000 Dec - 2001 Mar	unchecked
1998 Dec - 1999 Oct	unchecked
1998 Jan - 1998 Mar	unchecked
1996 Dec - 1997 Feb	unchecked
1993 Jan - 1993 Feb	unchecked
1991 Nov - 1991 Nov	unchecked
1991 Jun - 1991 Dec	unchecked
1990 Oct - 1990 Oct	unchecked
1986 Jan - 1986 Dec	checked
1982 Jan - 1982 Dec	unchecked
1979 Dec - 1979 Dec	unchecked
1976 Feb - 1976 Apr	unchecked
1969 Jan - 1969 Mar	unchecked

If you happen to zoom into an empty region you will see the Streets Basemap.

The screenshot shows a historical aerial photography interface for Maricopa County, Arizona. The main view is a satellite-style map of a residential area in Phoenix, with streets labeled. A search bar at the top left contains the text "301 W Jefferson St 85...". On the right side, there is a vertical sidebar with a list of date ranges for historical aerial photos, each with a checkbox and three dots. The date range "1986 Jan - 1986 Dec" has a blue checkmark next to it. At the bottom of the map, there is a coordinate display "-112.154533 33.426682" and a note about the data sources: "PHX GIS, City of Phoenix, Bureau of Land Management, Esri, HERE, ... Powered by Esri".

> <input type="checkbox"/> 2002 Dec - 2002 Dec	≡ ...
> <input type="checkbox"/> 2002 Jan - 2002 Dec	≡ ...
> <input type="checkbox"/> 2001 Dec - 2002 Feb	≡ ...
> <input type="checkbox"/> 2001 Jan - 2001 Dec	≡ ...
> <input type="checkbox"/> 2000 Jan - 2000 Apr	≡ ...
> <input type="checkbox"/> 2000 Dec - 2001 Mar	≡ ...
> <input type="checkbox"/> 1998 Dec - 1999 Oct	≡ ...
> <input type="checkbox"/> 1998 Jan - 1998 Mar	≡ ...
> <input type="checkbox"/> 1996 Dec - 1997 Feb	≡ ...
> <input type="checkbox"/> 1993 Jan - 1993 Feb	≡ ...
> <input type="checkbox"/> 1991 Nov - 1991 Nov	≡ ...
> <input type="checkbox"/> 1991 Jun - 1991 Dec	≡ ...
> <input type="checkbox"/> 1990 Oct - 1990 Oct	≡ ...
> <input checked="" type="checkbox"/> 1986 Jan - 1986 Dec	≡ ...
> <input type="checkbox"/> 1982 Jan - 1982 Dec	≡ ...
> <input type="checkbox"/> 1979 Dec - 1979 Dec	≡ ...
> <input type="checkbox"/> 1976 Feb - 1976 Apr	≡ ...
> <input type="checkbox"/> 1969 Jan - 1969 Mar	≡ ...

This is the reason why the **Aerial Photography Not Available** Layer is turned on by default.

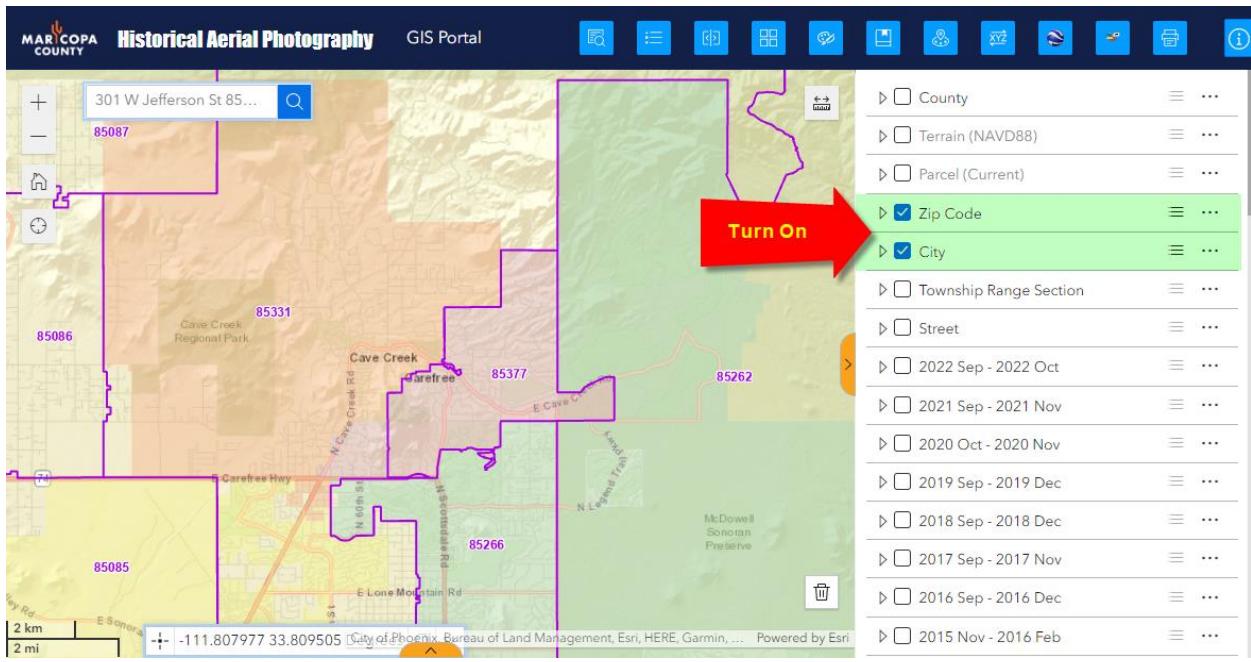
It shows you the regions where the Aerial Photography for that specific year is not available.

The screenshot shows the Maricopa County Historical Aerial Photography GIS Portal. On the left is a map of an area with a search bar containing "301 W Jefferson St 85...". A red speech bubble points to a yellow rectangular area on the map with the text "Aerial Photography Not Available". To the right of the map is a vertical list of date ranges for historical aerial photography, each with a checkbox. Most checkboxes are empty, but the one for "1986 Jan - 1986 Dec" is checked. A large red arrow points to the bottom of this list, where a green box highlights the checked item with the text "Aerial Photography Not Available".

Date Range	Status
1991 Jun - 1991 Dec	
1990 Oct - 1990 Oct	
1986 Jan - 1986 Dec	<input checked="" type="checkbox"/>
1982 Jan - 1982 Dec	
1979 Dec - 1979 Dec	
1976 Feb - 1976 Apr	
1969 Jan - 1969 Mar	
1964 Jan - 1964 Dec	
1961 Jan - 1962 Dec	
1959 Feb - 1959 Feb	
1953 Mar - 1953 May	
1951 Apr - 1951 Apr	
1949 Feb - 1949 Apr	
1937 Jan - 1937 Dec	
1930 Jan - 1930 Jan Oblique	
1930 Jan - 1930 Jan	
Aerial Photography Not Available	<input checked="" type="checkbox"/>

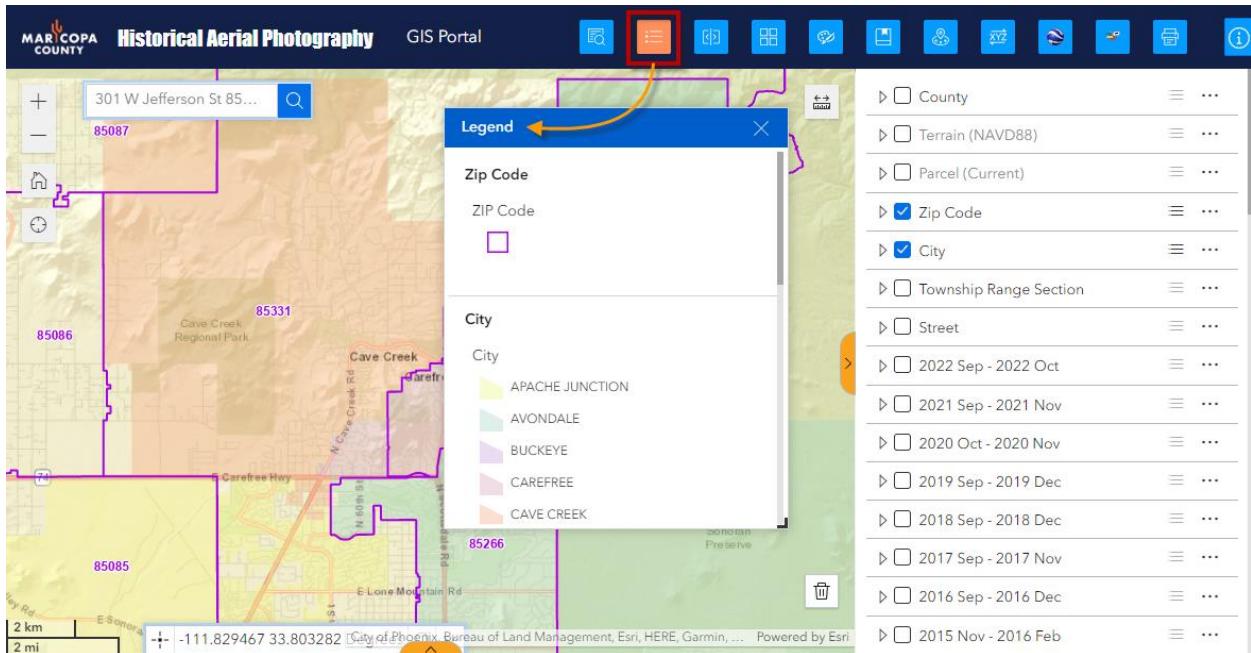
## Legend Widget

Turn on the Zip Code Layer and the City Layer.



Open the Legend Widget.

You will see the Legend for the Zip Code and City Layers.

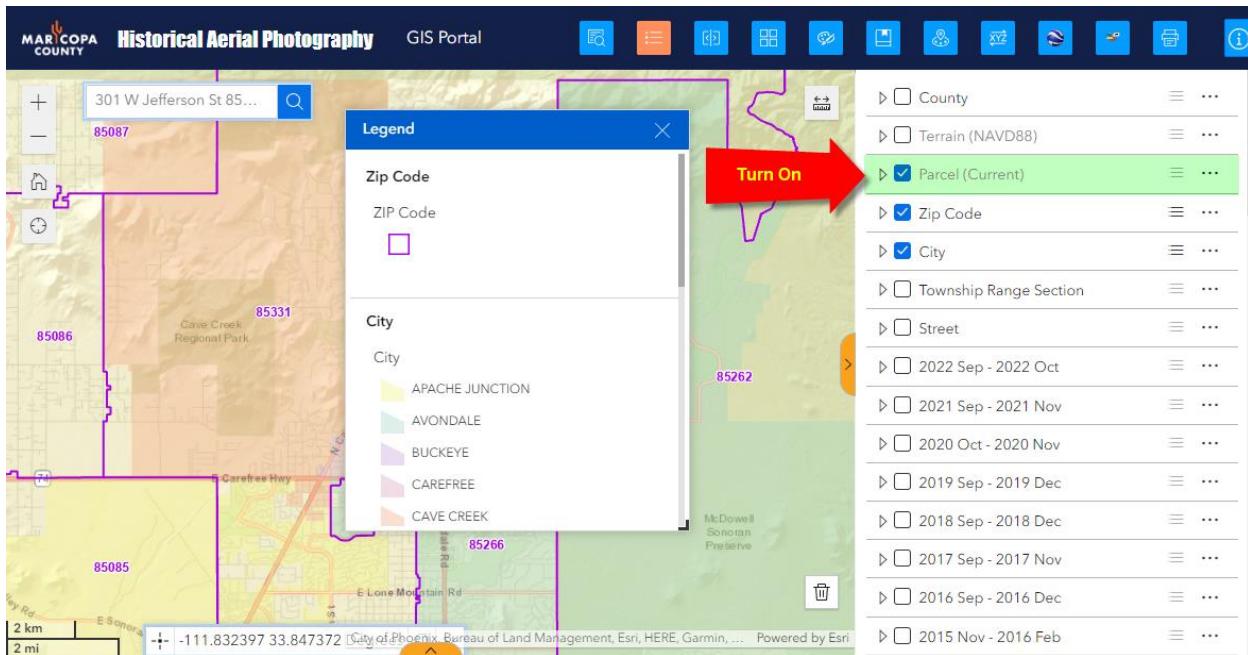


This Legend is **dynamic**.

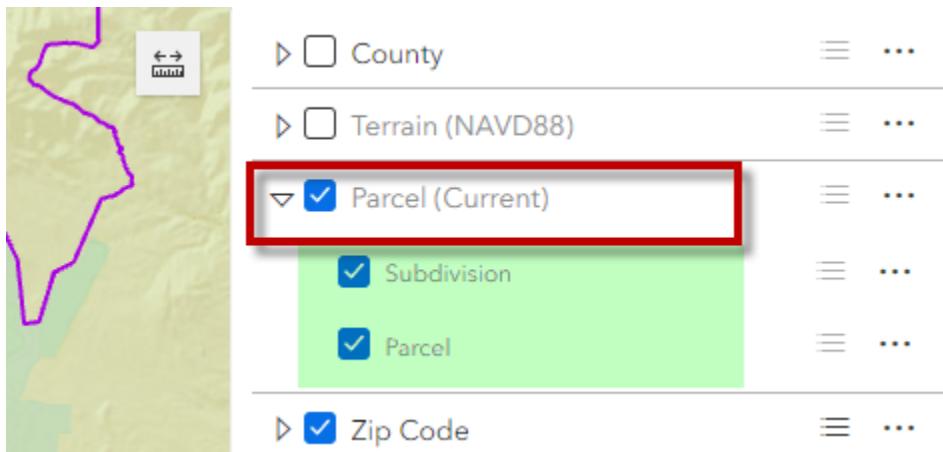
It will only display the legend of map layers that are visible within the scale threshold.

Turn on the Parcel Layer.

The Legend will not show up because the Parcel layer is beyond the scale threshold.

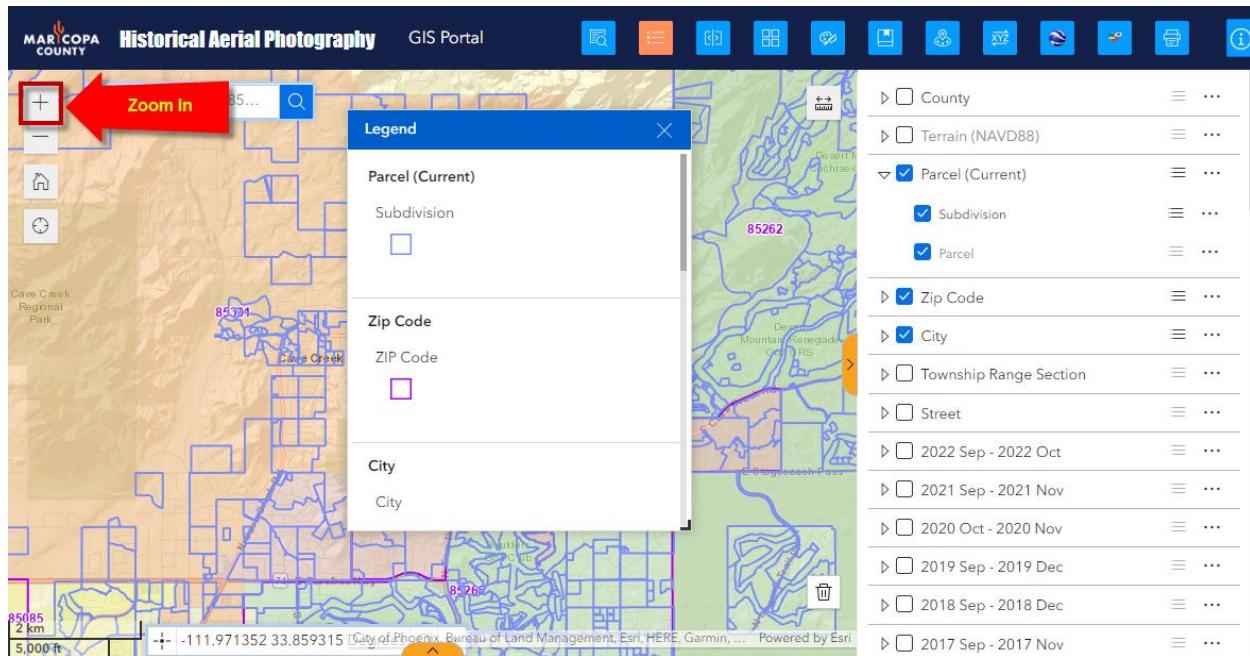


Expand the Parcel Layer Group and turn on both the Subdivision and Parcel Layers.

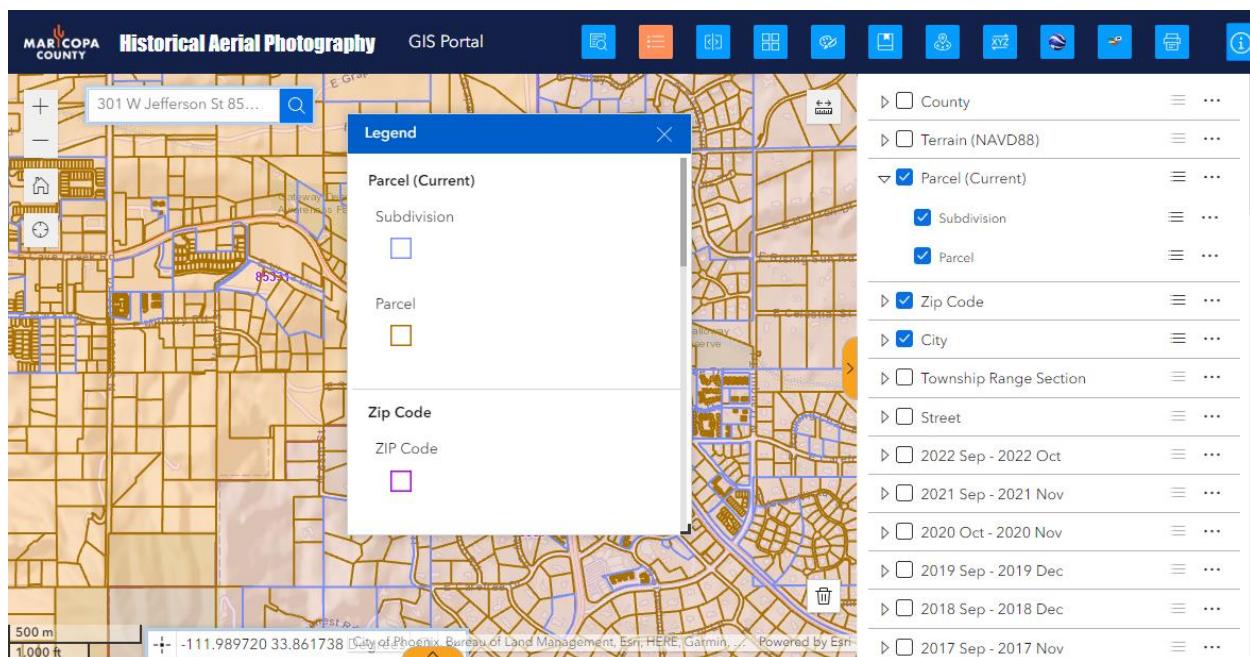


Click on the **Zoom In Tool** one step at a time.

The Subdivision boundaries will appear on the Map and on the Legend.

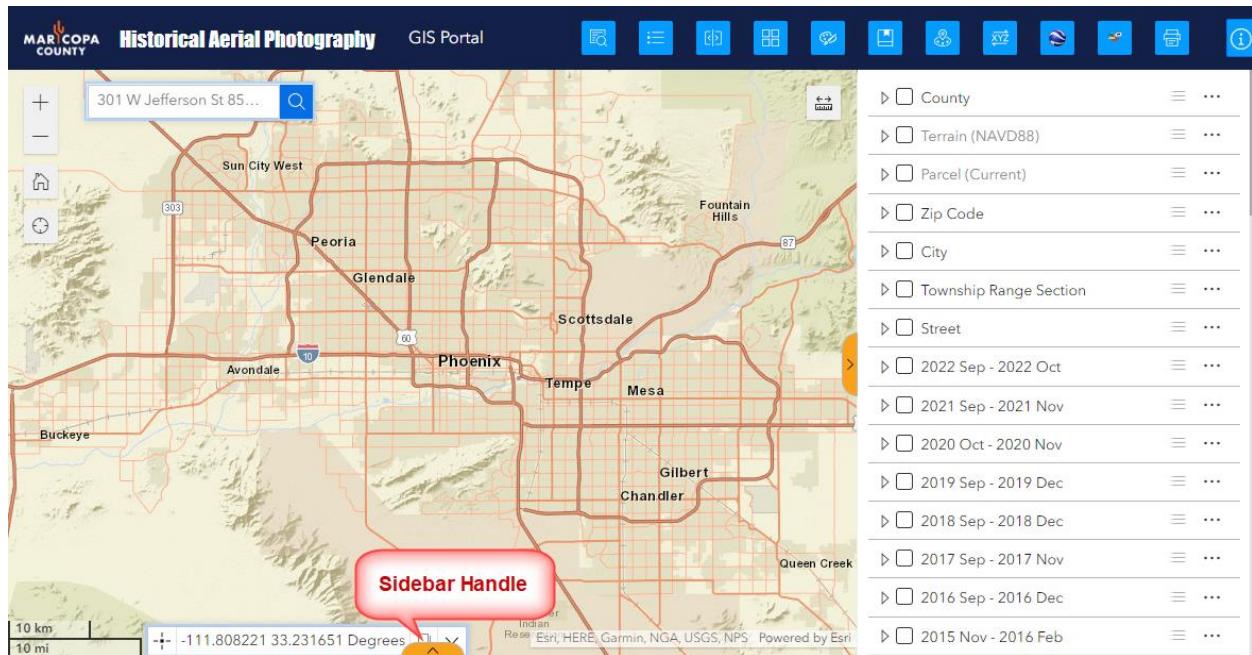


As you zoom in closer you will see the Parcel boundaries appear on the Map and on the Legend.

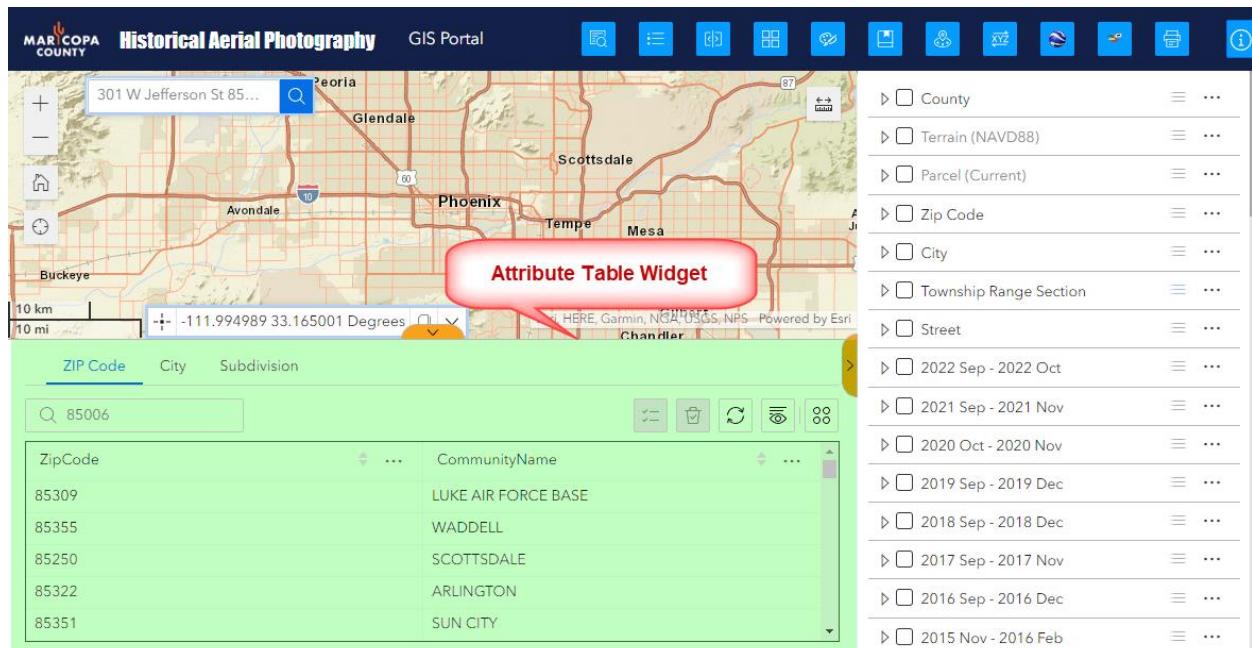


## Attribute Table Widget

Click on the Sidebar Handle on the bottom of the map.



This opens the Attribute Table Widget.



You can view more rows by expanding the height.

A screenshot of the Maricopa County Historical Aerial Photography GIS Portal. At the top, there's a map of the Phoenix area with a search bar containing "301 W Jefferson St 85..." and a red arrow pointing upwards towards the map. Below the map is a table with a header row "ZIP Code" and "CommunityName". The table lists zip codes from 85309 to 85297, corresponding to various communities like LUKE AIR FORCE BASE, WADDELL, SCOTTSDALE, etc. To the right of the table is a sidebar with a list of filters: County, Terrain (NAVD88), Parcel (Current), Zip Code, City, Township Range Section, Street, and date ranges from 2015 Nov - 2016 Feb to 2022 Sep - 2022 Oct. Each filter has a collapse button indicated by three dots.

ZipCode	CommunityName
85309	LUKE AIR FORCE BASE
85355	WADDELL
85250	SCOTTSDALE
85322	ARLINGTON
85351	SUN CITY
85345	PEORIA
85304	GLENDALE
85297	GILBERT

You can close the Sidebar on the right to make more room for the Table.

A screenshot of the same GIS portal, but the sidebar on the right is collapsed, indicated by a red arrow pointing to a "Collapse" button. The map and table are identical to the previous screenshot, showing the Phoenix area and the list of zip codes and communities.

ZipCode	CommunityName
85309	LUKE AIR FORCE BASE
85355	WADDELL
85250	SCOTTSDALE
85322	ARLINGTON
85351	SUN CITY
85345	PEORIA
85304	GLENDALE
85297	GILBERT

Turn on the Zip Code Layer.

The screenshot shows the Maricopa County Historical Aerial Photography GIS Portal. On the left is a map of the Phoenix metropolitan area with various zip code boundaries outlined in purple. A red arrow points to the 'Zip Code' checkbox in the legend, which is currently checked. Below the map is a search bar with '85006' entered. An attribute table displays information for zip codes 85309, 85355, and 85250, with 'WADDELL' listed under CommunityName for 85355. The legend on the right lists various layers, with 'Zip Code' highlighted in green and checked.

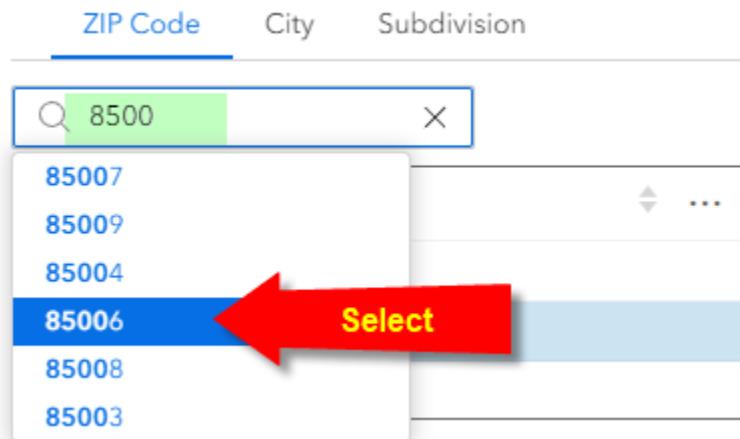
Select Zip Code 85355 in the Attribute Table.

The map zooms to Zip Code 85355. It is highlighted in cyan.

The screenshot shows the map zoomed into the Waddell area, highlighting Zip Code 85355 in cyan. A red speech bubble points to this area with the text 'Zip Code 85355'. The attribute table below shows the selected row for Zip Code 85355, with 'WADDELL' listed under CommunityName. The rest of the table rows (85309, 85250) are dimmed. The legend on the right shows 'Zip Code' checked.

You can search for any Zip Code in the Search Box.

Begin typing a Zip Code and select Zip Code 85006 from the list.



The screenshot shows the Maricopa County GIS Portal. At the top, it says 'Historical Aerial Photography' and 'GIS Portal'. The main area is a map of Phoenix, Arizona, with a cyan rectangle highlighting a specific geographic area. On the map, labels include 'W Glendale Ave', 'N 30th St', 'W Olive Ave', 'W Jefferson Ln', 'Northern Pkwy', 'Luke Air Force Base', and 'W Glendale Ave'. Below the map is a search interface with tabs for ZIP Code, City, and Subdivision. The ZIP Code tab is selected. A search bar contains '85006'. Below the search bar is a table with two columns: 'ZipCode' and 'CommunityName'. The row for '85006' is highlighted in green and shows 'PHOENIX' in the 'CommunityName' column. To the right of the table is a vertical list of checkboxes for various spatial features, with 'Zip Code' being the only one checked.

ZipCode	CommunityName
85006	PHOENIX

- County
- Terrain (NAVD88)
- Parcel (Current)
- Zip Code
- City
- Township Range Section
- Street
- 2022 Sep - 2022 Oct
- 2021 Sep - 2021 Nov
- 2020 Oct - 2020 Nov
- 2019 Sep - 2019 Dec
- 2018 Sep - 2018 Dec
- 2017 Sep - 2017 Nov
- 2016 Sep - 2016 Dec
- 2015 Nov - 2016 Feb

Select this record in the Table.

The map zooms to Zip Code 85006.

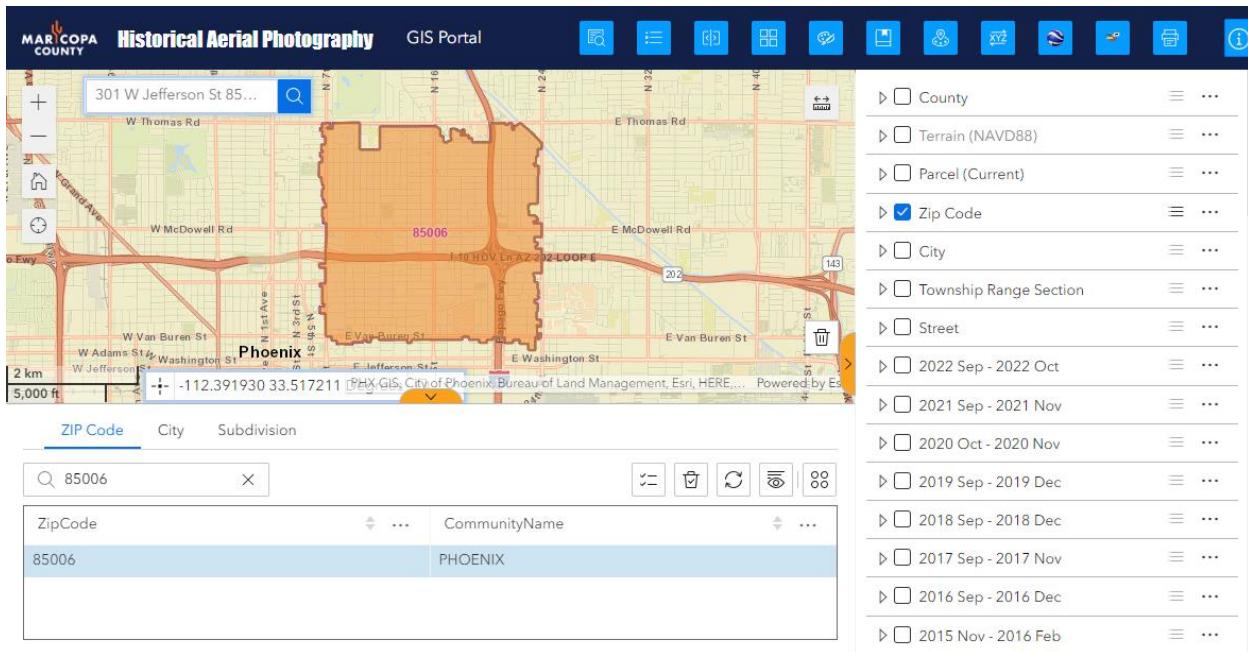
The Zip Code boundary is shown in cyan.

The screenshot shows the Maricopa County Historical Aerial Photography GIS Portal. At the top, there's a search bar with the address "301 W Jefferson St 85..." and a magnifying glass icon. Below the search bar is a map of Phoenix, Arizona, with a cyan-colored polygon representing "Zip Code 85006". A red callout bubble points to this polygon with the text "Zip Code 85006". The map also shows various streets like W Thomas Rd, W McDowell Rd, Papago Fwy, and E Washington St. On the right side of the screen is a sidebar with a list of checkboxes for different layers: County, Terrain (NAVD88), Parcel (Current), Zip Code (which is checked), City, Township Range Section, Street, and several date ranges from 2015 to 2022. Below the map is a search interface with dropdown menus for ZIP Code, City, and Subdivision. A red callout bubble points to the "Select" button in the ZIP Code dropdown menu. The dropdown menu shows "85006" and "PHOENIX" highlighted with a red border. The URL at the bottom of the page is "-112.391930 33.517211".

Open the Action Menu and select Show on Map.

This screenshot shows the map interface with the Action Menu open. The menu includes options like "Zoom to", "Set location", "Pan to", "Show on map" (which is highlighted with a blue background and a red callout bubble), "Export all", and "Export selected". Below the menu is a toolbar with icons for zoom in, zoom out, refresh, and other functions. A red callout bubble points to the "Action Menu" button at the bottom left of the toolbar. To the right of the toolbar is a vertical list of date ranges from "2022 Sep - 2022 Oct" down to "2015 Nov - 2016 Feb", each preceded by a checkbox. The URL at the bottom of the page is "d Management, Esri, HERE, ... Powered by Esri".

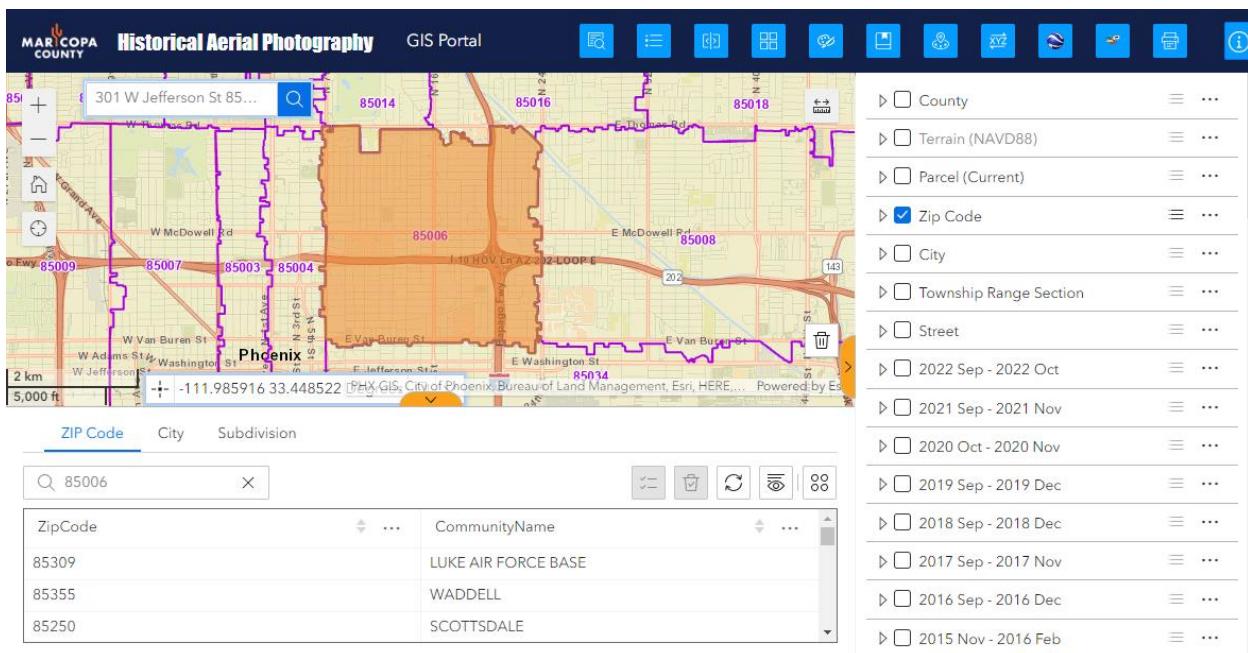
Zip Code 85006 is highlighted in orange.



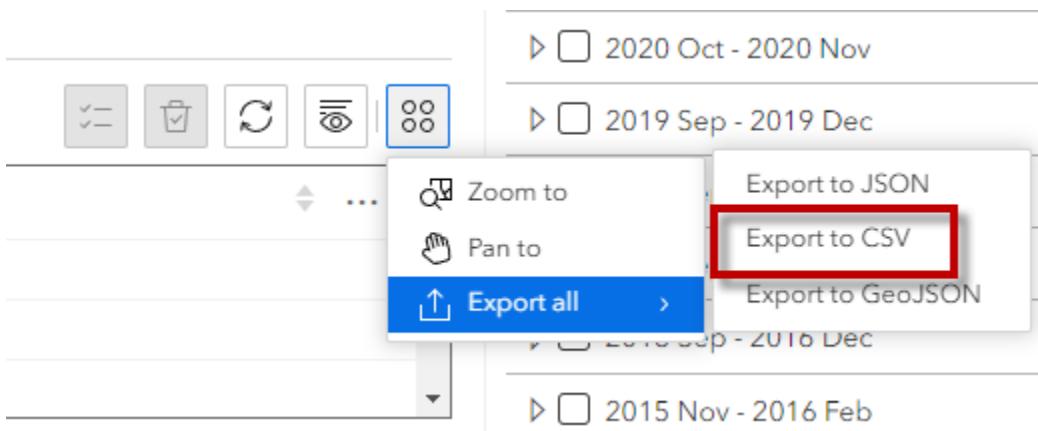
Clear the Selection.



All the Zip Codes are now drawn on the map with purple boundaries.



You may **Export** all the records to a CSV File.



Turn off the Parcel Layer.

Turn on the City Layer.

Open the **City Tab** in the Attribute Table.

The screenshot shows a map of Phoenix, Arizona, with historical aerial photography. On the right, a sidebar lists various layers: County, Terrain (NAVD88), Parcel (Current) (unchecked), Zip Code, City (checked), Township Range Section, Street, and several time periods from 2015 to 2022. Below the map is an attribute table with tabs for ZIP Code, City (selected), and Subdivision. The search bar contains 'CAVE CREEK'. The table shows results for Peoria, Peoria, and Mesa.

CityName	FullCityName
PEORIA	City of Peoria
PEORIA	City of Peoria
MESA	City of Mesa

Start by typing in a City Name = CAREFREE in the Search Box.

The screenshot shows the attribute table with the 'City' tab selected. The search bar contains 'CARE'. The result 'CAREFREE' is highlighted with a red arrow labeled 'Select'.

CityName	FullCityName
CAREFREE	City of Carefree
PEORIA	City of Peoria
PEORIA	City of Peoria
MESA	City of Mesa

The Table will show 1 record for CAREFREE.

The screenshot shows a GIS portal for Maricopa County, Historical Aerial Photography. The map displays the city of Phoenix, AZ, with various streets and landmarks labeled. A search bar at the top contains the address '301 W Jefferson St 85...'. Below the map is a results table:

CityName	FullCityName
CAREFREE	Town of Carefree

A vertical sidebar on the right lists historical time periods from 2015 Nov - 2016 Feb to 2022 Sep - 2022 Oct. The 'City' checkbox is selected. The table has a green background for the selected row.

Select this record.

The map will zoom to the Town of Carefree.

The outline will be shown in cyan.

The screenshot shows the same GIS portal after selecting the 'CAREFREE' record. The map now focuses on the town of Carefree, AZ, with its boundary outlined in cyan. A large red arrow points to this cyan-outlined area. A red callout bubble with the word 'Select' points to the 'Select' button in the results table. The table now has a blue background for the selected row.

**Clear the Selection.**

The screenshot shows a GIS portal interface for Maricopa County. On the left is a map of the area around Carefree, Arizona, with several parcels highlighted in pink and cyan. Below the map is a search bar containing "301 W Jefferson St 85...". To the right is a table titled "Search Results" with the following columns: CityName, FullCityName, and Action buttons. The first row shows "CAREFREE" and "Town of Carefree". A red speech bubble with the text "Clear the Selection" points to the trash can icon in the action column of this row. The right side of the screen displays a sidebar with various filter options and a timeline from 2015 to 2022.

CityName	FullCityName	Action
CAREFREE	Town of Carefree	

All the Cities will show up again in the list.

This screenshot shows the same GIS portal after the selection has been cleared. The map now highlights different areas, including Cave Creek Regional Park and parts of Peoria and Mesa. The search bar still contains "301 W Jefferson St 85...". The search results table now lists multiple cities: PEORIA, PEORIA, and MESA, each associated with its respective city name. A red speech bubble with the text "Clear the Selection" points to the trash can icon in the action column of the first row. The sidebar on the right remains the same.

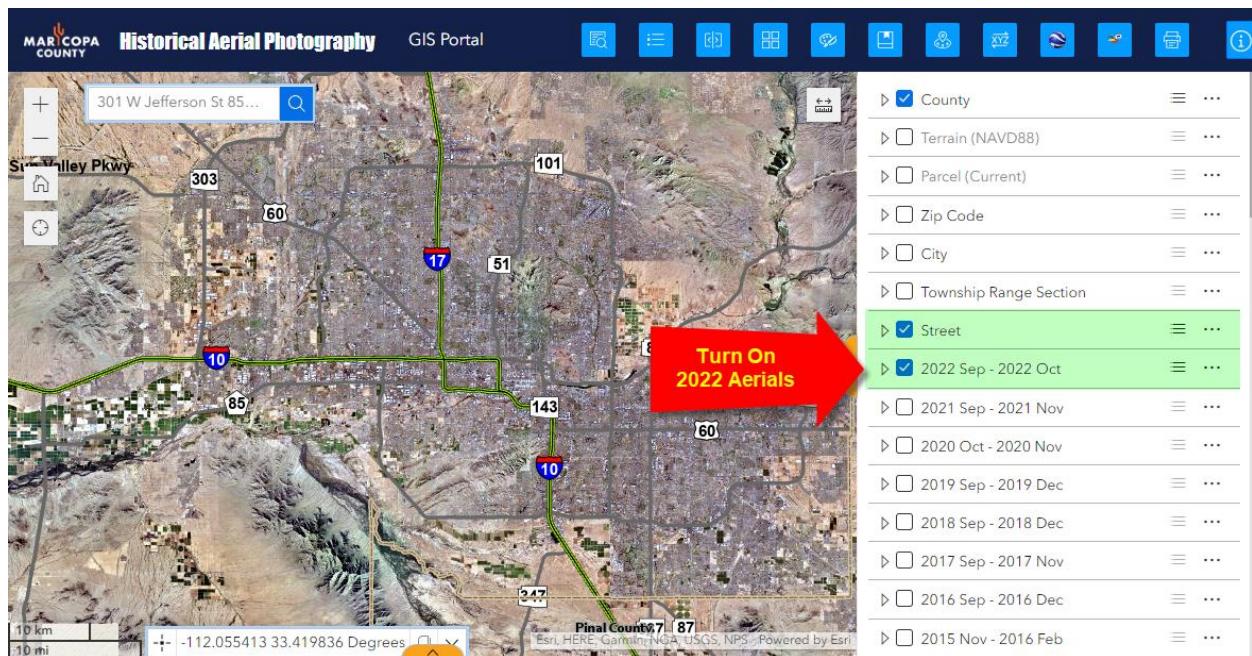
CityName	FullCityName	Action
PEORIA	City of Peoria	
PEORIA	City of Peoria	
MESA	City of Mesa	

## Swipe Widget

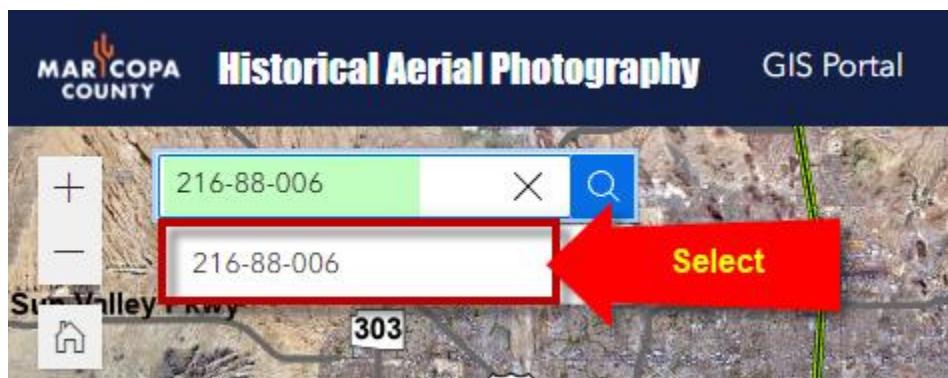
The **Swipe Widget** offers an elegant way to compare the most recent Aerial Imagery against previous years dating all the way back to 1930.

Refresh the Web App.

Make sure the Street Layer and the 2022 Aerials are turned on.



Enter Parcel Number 216-88-006 in the Search Tool.



The map zooms to Parcel 216-88-006.

Maricopa County Historical Aerial Photography GIS Portal

Search result: 216-88-006

216-88-006

Sundance Tr, Tranquill Tr, Hum Rd, Almarie Dr

County, Street, 2022 Sep - 2022 Oct

2015 Nov - 2016 Feb, 2016 Sep - 2016 Dec, 2017 Sep - 2017 Nov, 2018 Sep - 2018 Dec, 2019 Sep - 2019 Dec, 2020 Oct - 2020 Nov, 2021 Sep - 2021 Nov, 2022 Sep - 2022 Oct

Zoom in closer.

You are viewing the 2022 Aerials.

Maricopa County Historical Aerial Photography GIS Portal

Search result: 216-88-006

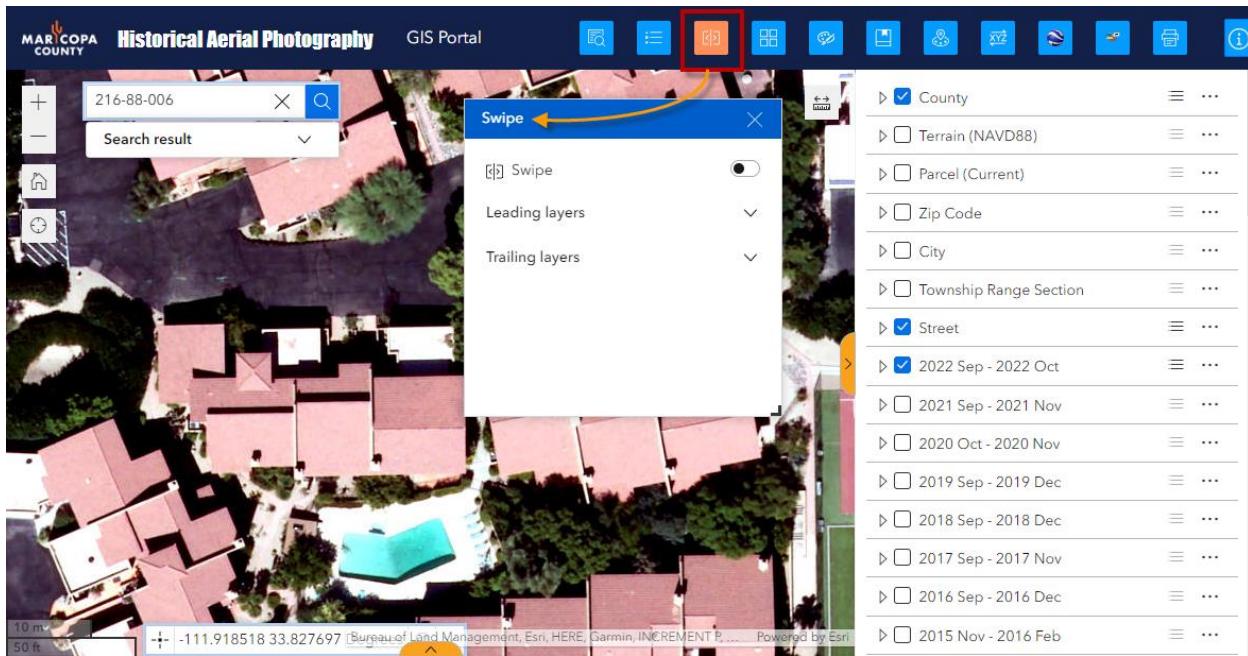
216-88-006

2022 Aerials

County, Street, 2022 Sep - 2022 Oct

2015 Nov - 2016 Feb, 2016 Sep - 2016 Dec, 2017 Sep - 2017 Nov, 2018 Sep - 2018 Dec, 2019 Sep - 2019 Dec, 2020 Oct - 2020 Nov, 2021 Sep - 2021 Nov, 2022 Sep - 2022 Oct

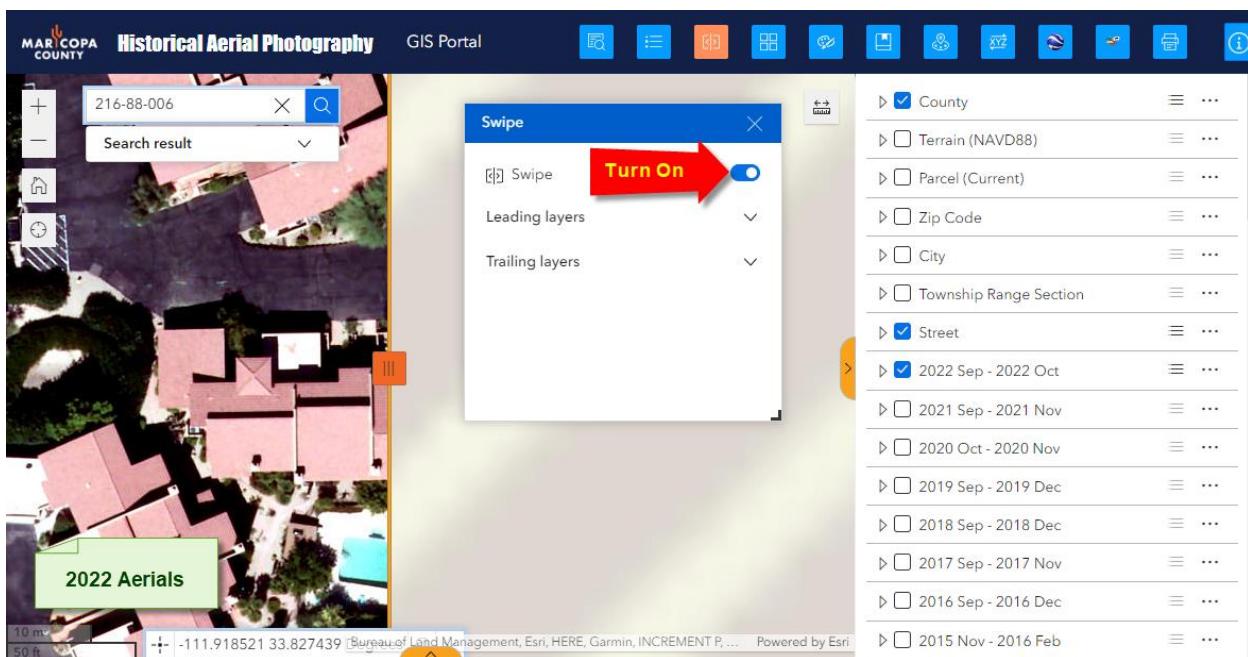
Open the Swipe Widget.



Activate the Swipe Tool.

The 2022 Aerials will appear on the left half.

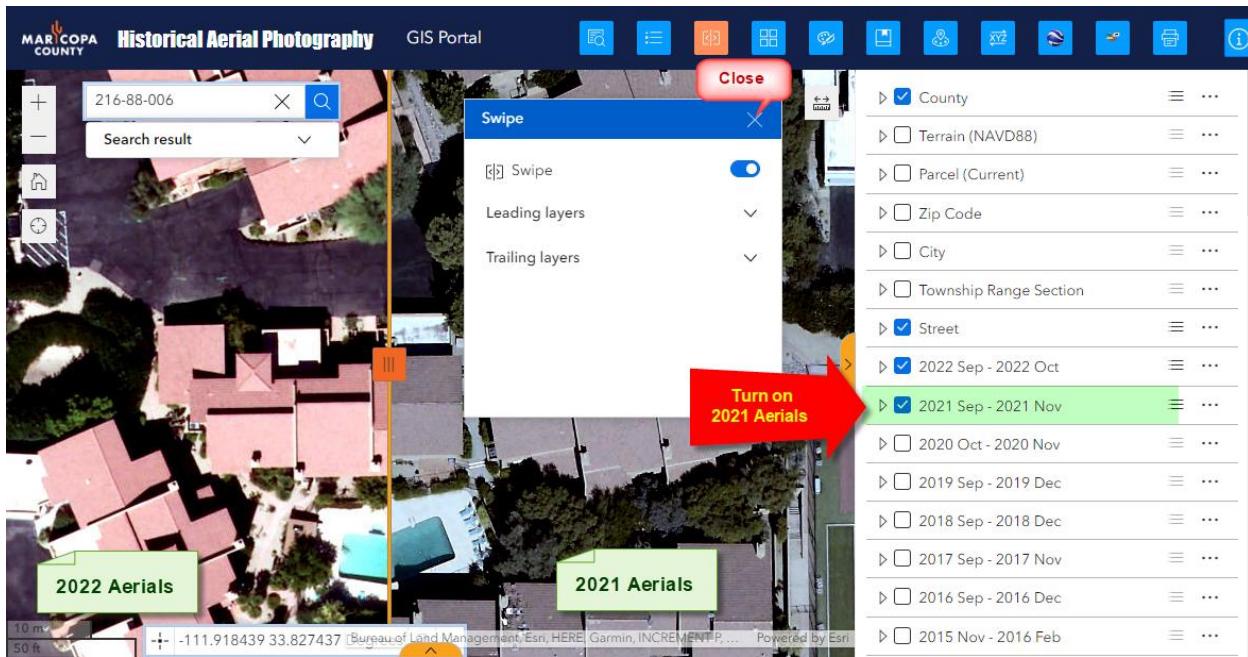
The right half will be empty.



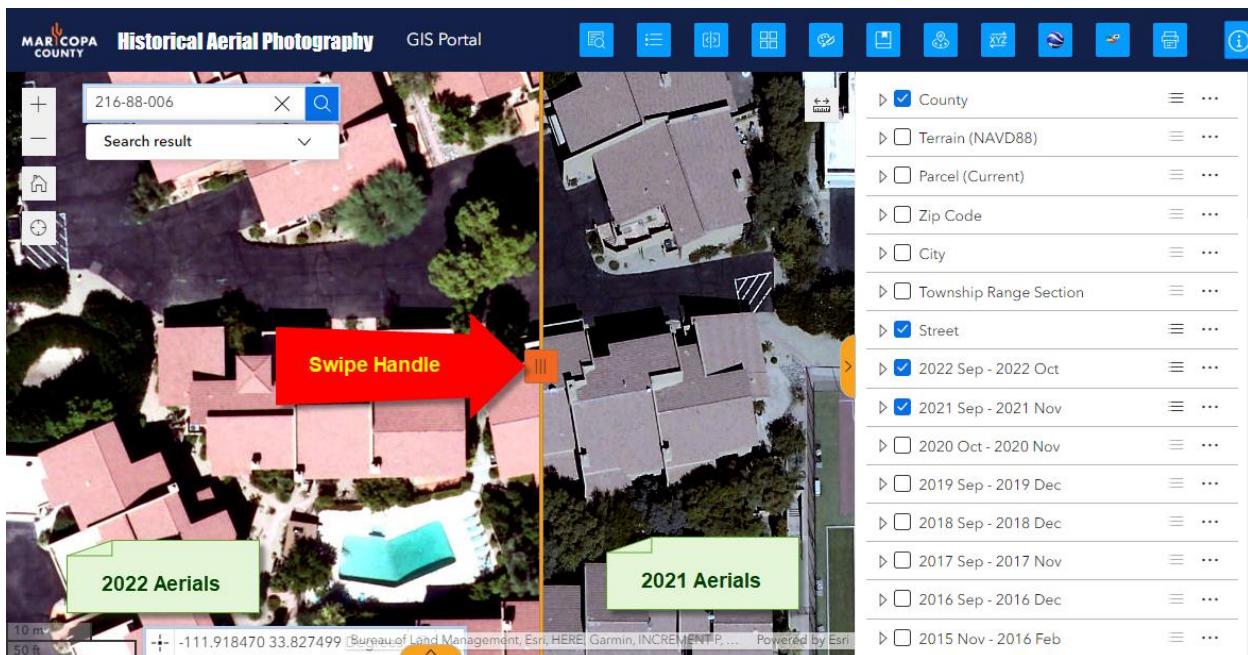
Turn on the 2021 Aerials.

The 2021 Aerials will appear on the right half.

Close the Swipe Widget to get it out of the way but do not close the Swipe Tool.



Drag the Swipe Handle horizontally to compare the 2022 Aerials against the 2021 Aerials.



Turn off the 2021 Aerials.

Turn on the 2020 Aerials.

216-88-006

Search result

10 m  
50 ft

-111.918518 33.827453 Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, ... Powered by Esri

County

Terrain (NAVD88)

Parcel (Current)

Zip Code

City

Township Range Section

Street

2022 Sep - 2022 Oct

2021 Sep - 2021 Nov

**2020 Oct - 2020 Nov**

2019 Sep - 2019 Dec

2018 Sep - 2018 Dec

2017 Sep - 2017 Nov

2016 Sep - 2016 Dec

2015 Nov - 2016 Feb

Turn off the 2020 Aerials.

Turn on the 2019 Aerials.

216-88-006

Search result

10 m  
50 ft

-111.918523 33.827437 Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, ... Powered by Esri

County

Terrain (NAVD88)

Parcel (Current)

Zip Code

City

Township Range Section

Street

2022 Sep - 2022 Oct

2021 Sep - 2021 Nov

2020 Oct - 2020 Nov

**2019 Sep - 2019 Dec**

2018 Sep - 2018 Dec

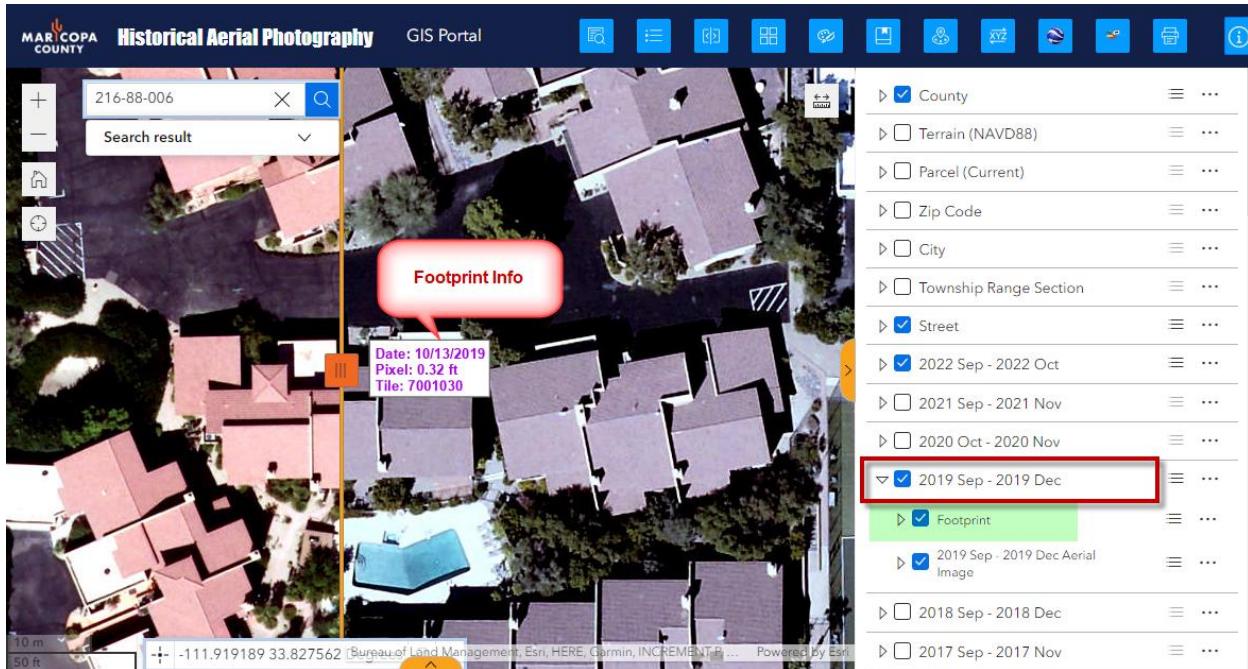
2017 Sep - 2017 Nov

2016 Sep - 2016 Dec

2015 Nov - 2016 Feb

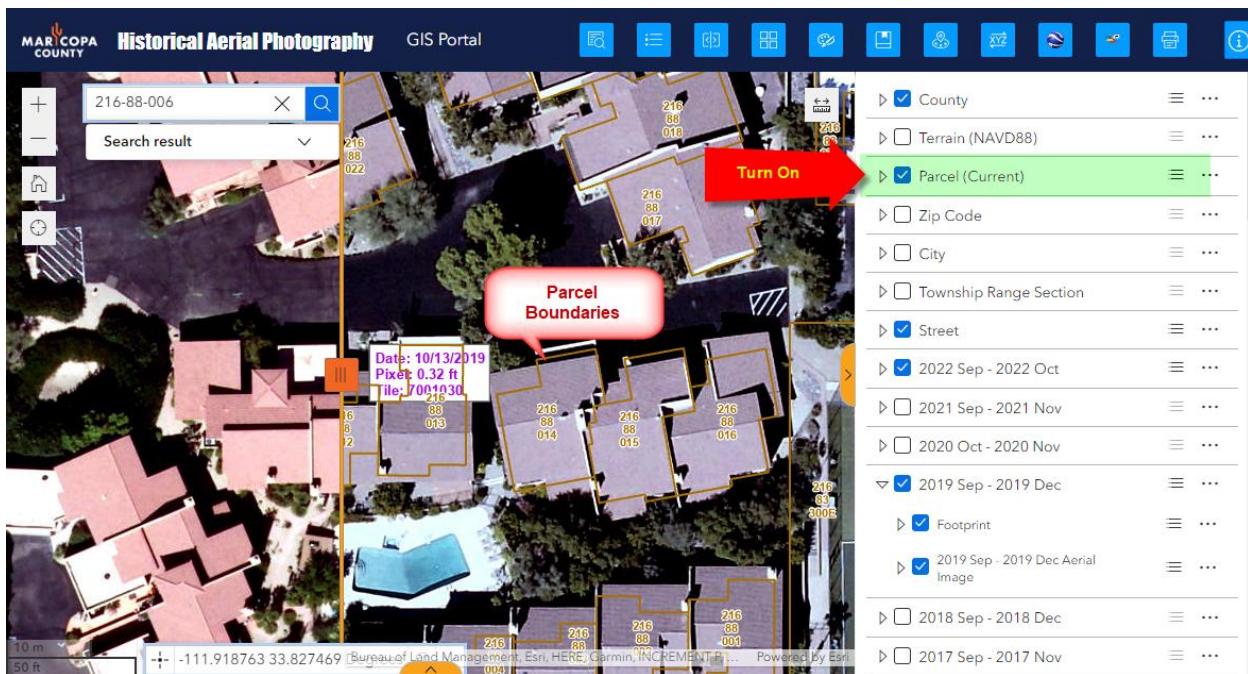
Expand the 2019 Aerial Imagery Group.

Turn on the Footprint Layer.



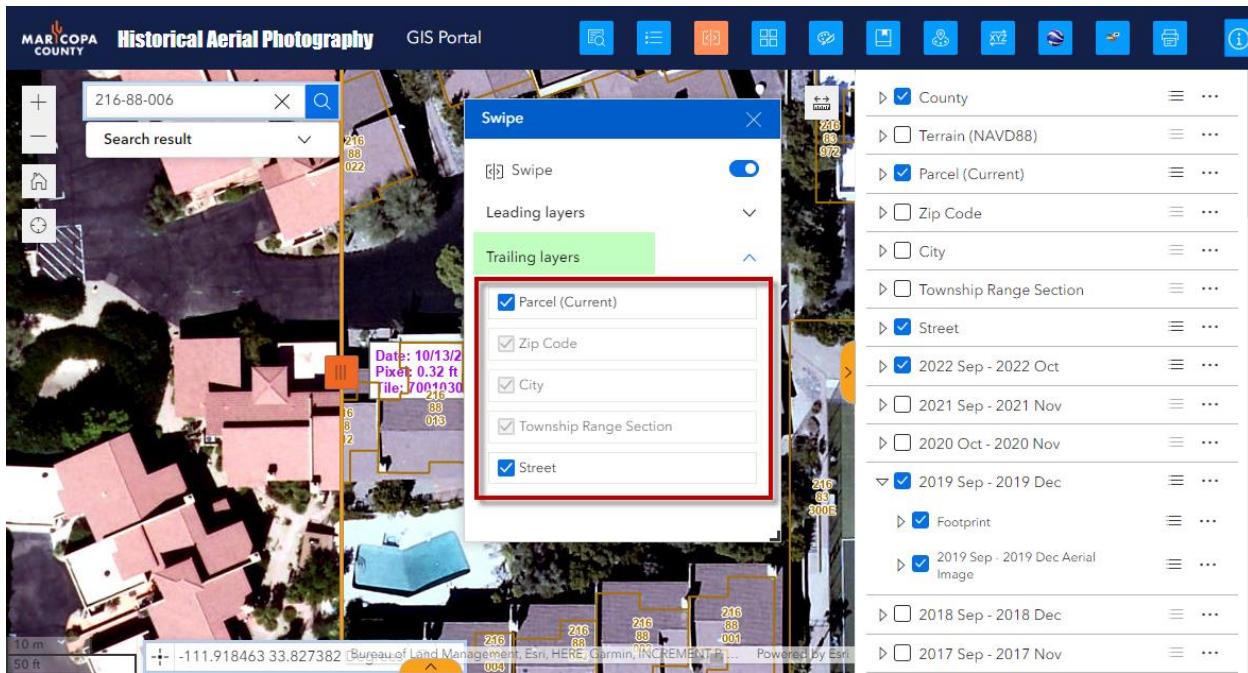
Turn on the Parcel Layer.

The Parcel Boundaries will appear on the right half.



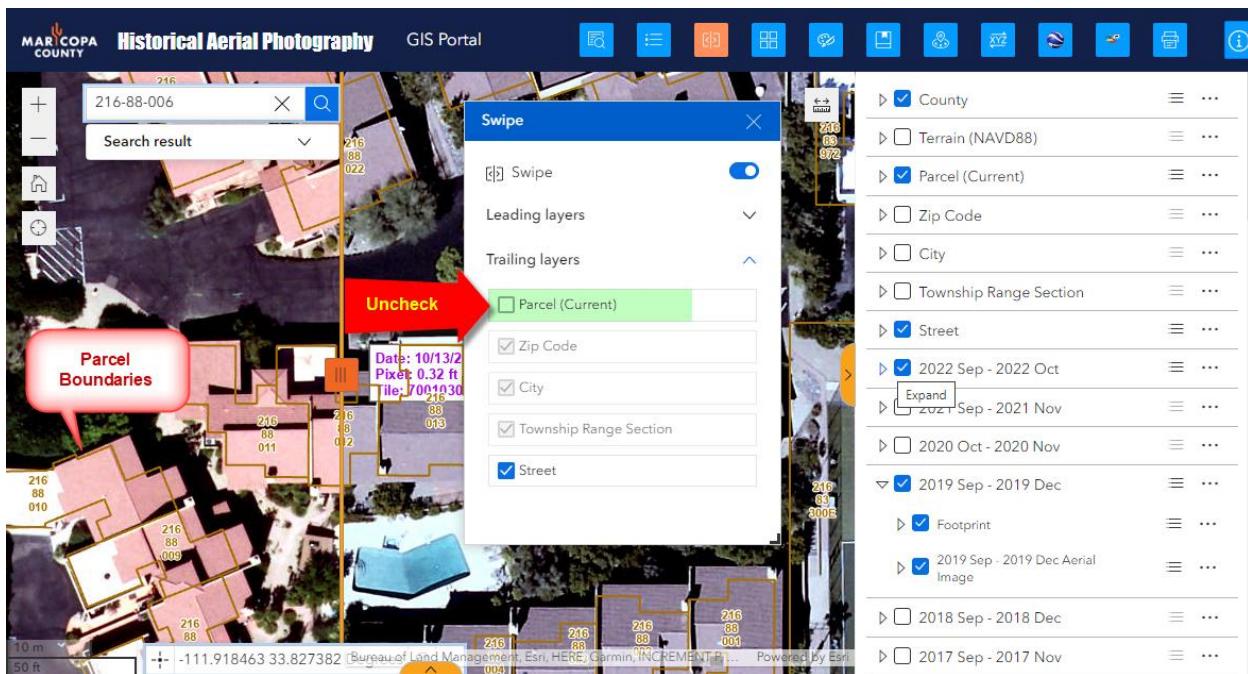
Open the Swipe Widget.

Expand the Trailing Layers.

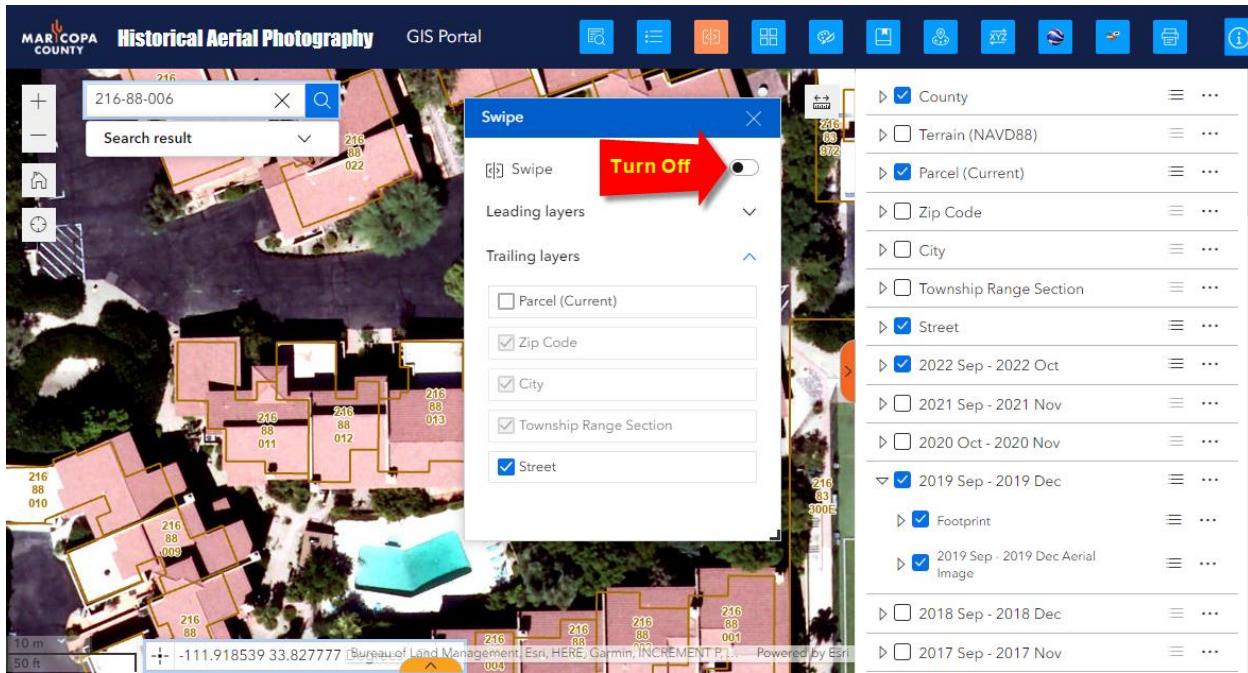


Uncheck Parcel.

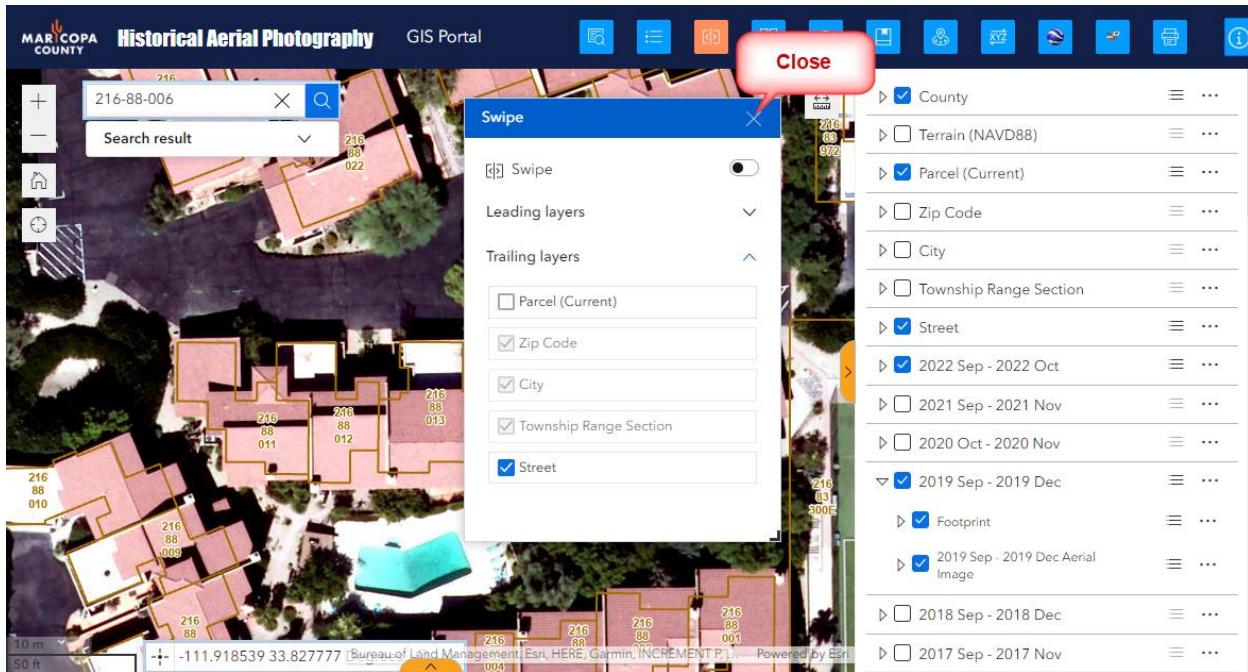
The Parcel Boundaries will now appear on the left as well.



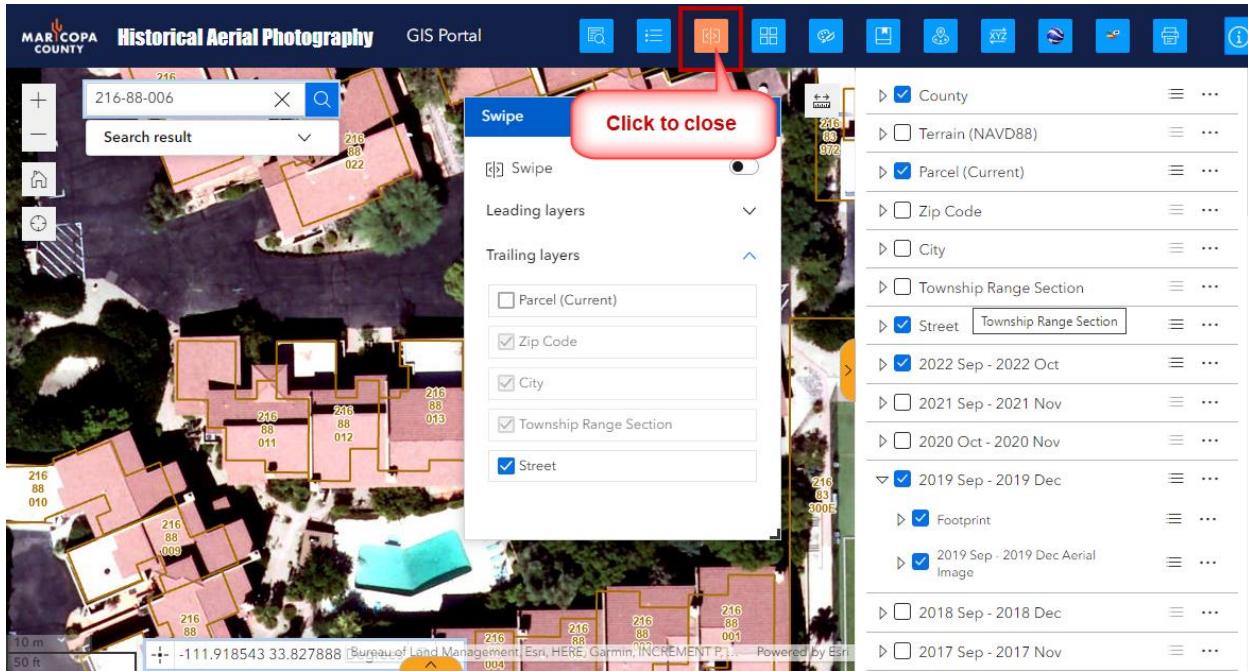
Deactivate the Swipe Tool.



Close the Swipe Widget.

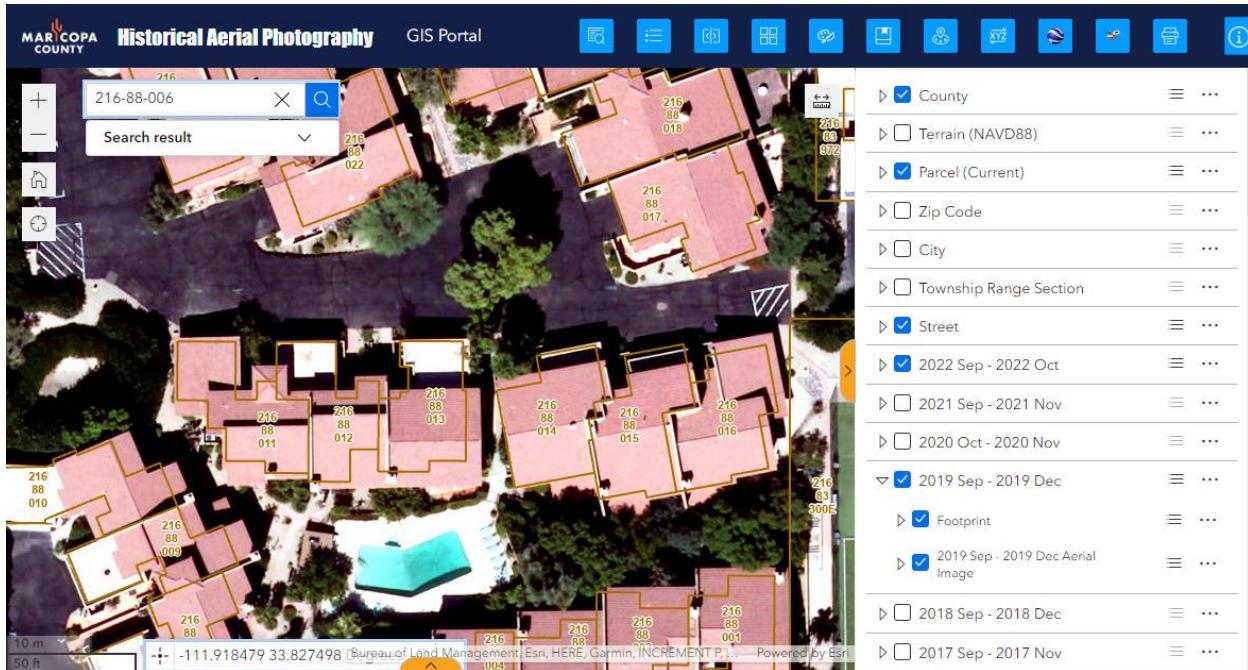


Note: You could also click on the Swipe Widget Icon to close the Swipe Widget.



Clicking on any Widget Icon opens it. It turns orange.

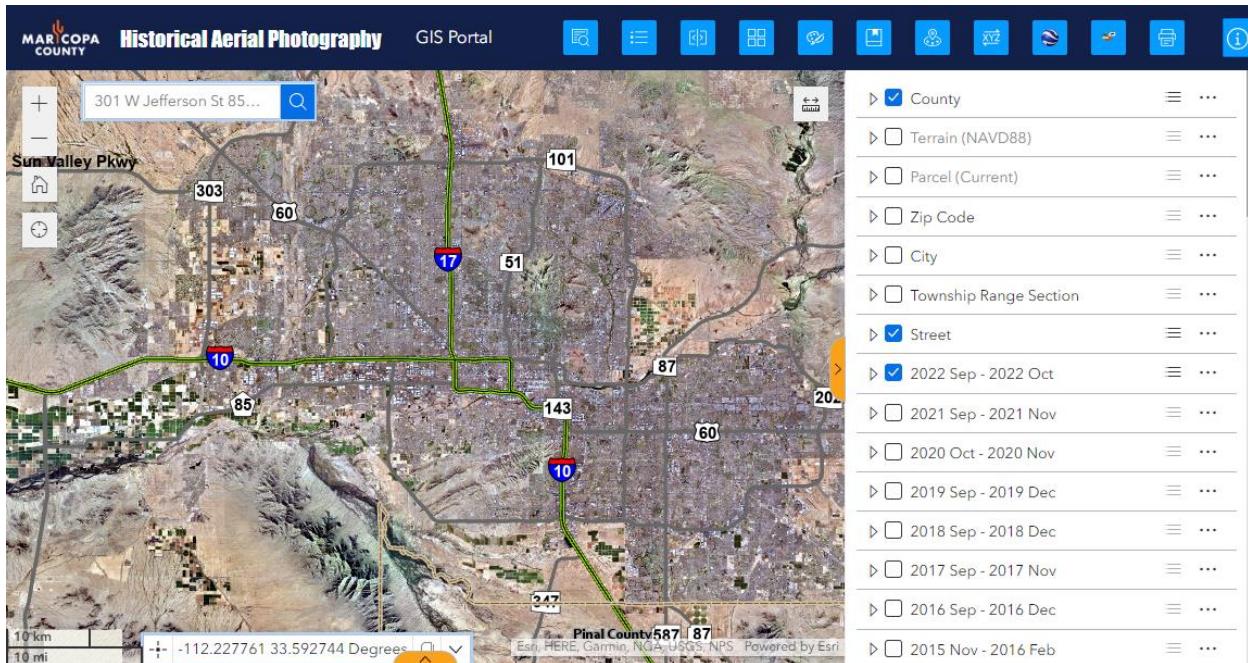
Clicking on the Widget Icon a second time closes it.



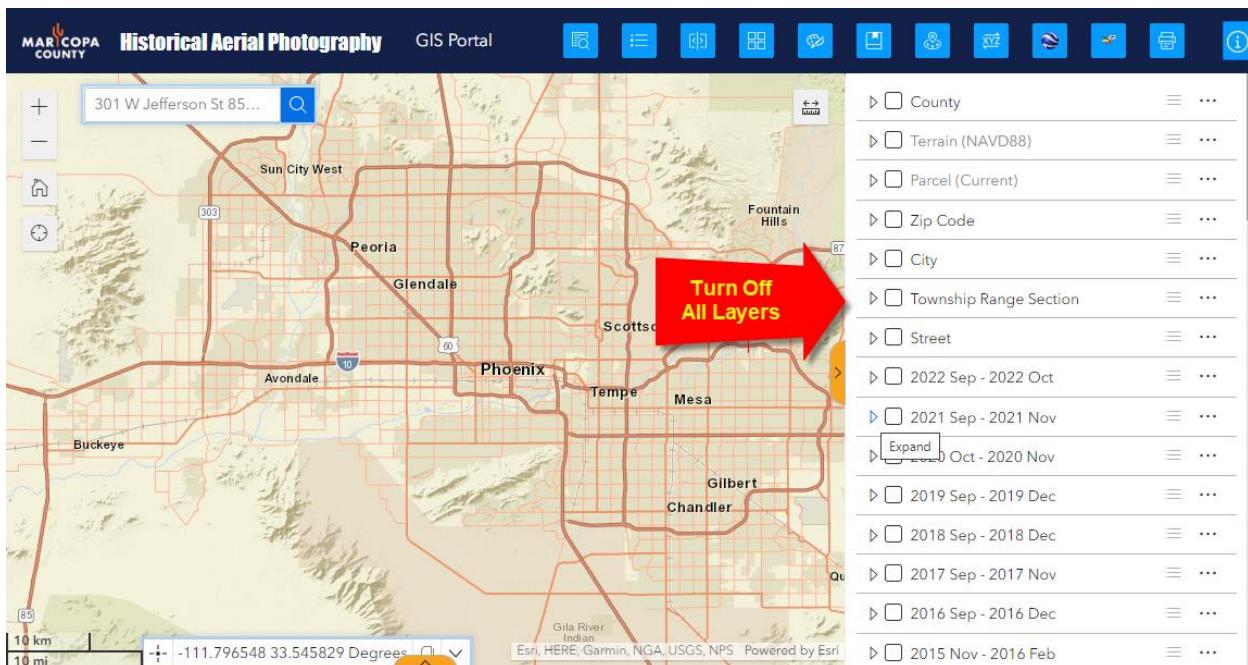
## Google Maps Widget

The Google Maps Widget launches a separate Google Maps window.

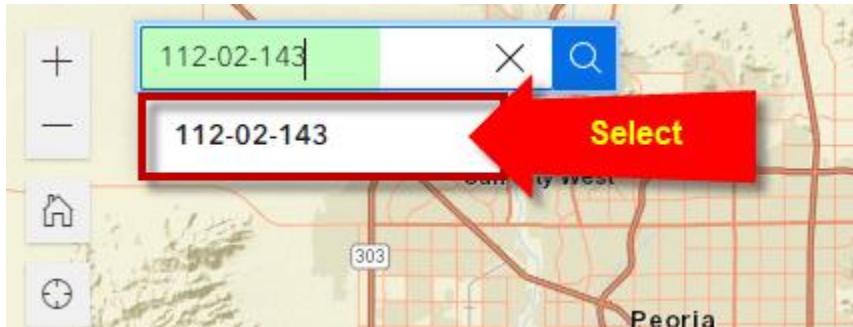
Refresh the Web App.



Turn off all the Map Layers.



Enter Parcel Number 112-02-143 in the Search Tool.



The map will zoom to the Arizona Department of Administration.

Arizona Department Of Administration

MARICOPA COUNTY Historical Aerial Photography GIS Portal

Search result

112-02-143

Arizona State Land Department

W Adams St

N 15th Ave

W Washington St

Arizona Mining and Mineral Museum

Wesley Bolin Memorial Park

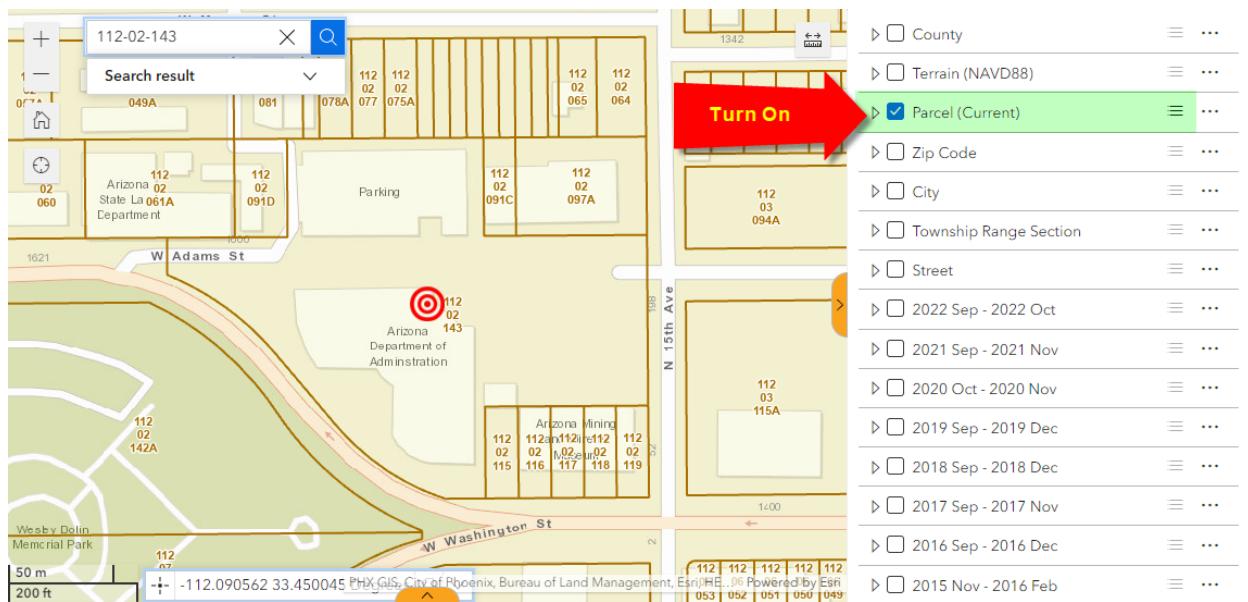
50 m 200 ft

-112.094473 33.450218 PHX GIS, City of Phoenix, Bureau of Land Management, Esri, HE...

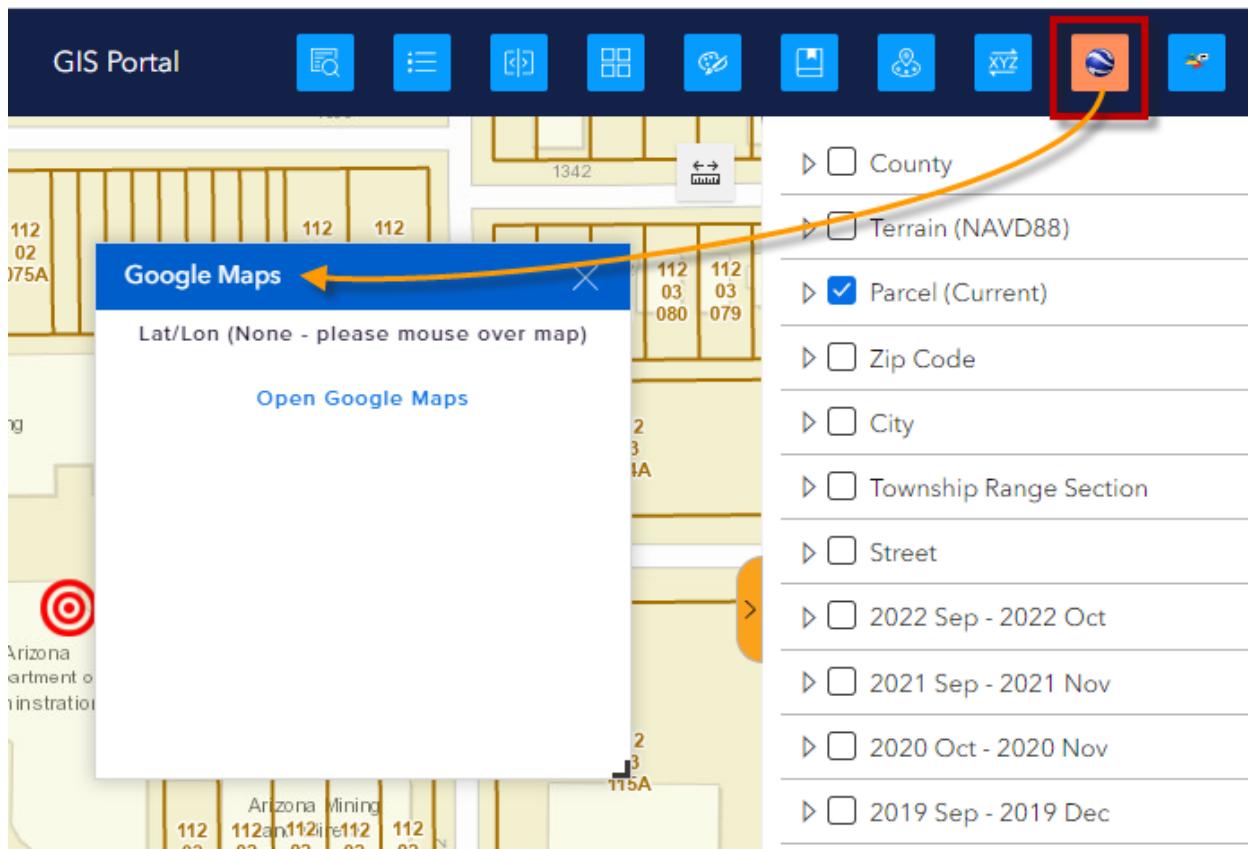
Powered by Esri

- >  County
- >  Terrain (NAVD88)
- >  Parcel (Current)
- >  Zip Code
- >  City
- >  Township Range Section
- >  Street
- >  2022 Sep - 2022 Oct
- >  2021 Sep - 2021 Nov
- >  2020 Oct - 2020 Nov
- >  2019 Sep - 2019 Dec
- >  2018 Sep - 2018 Dec
- >  2017 Sep - 2017 Nov
- >  2016 Sep - 2016 Dec
- >  2015 Nov - 2016 Feb

Turn on the Parcel Layer.

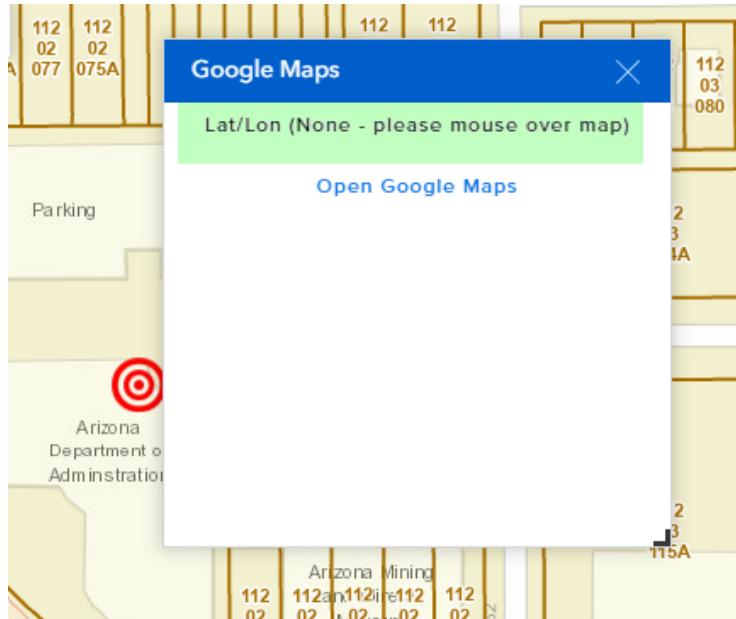


Open the Google Maps Widget.

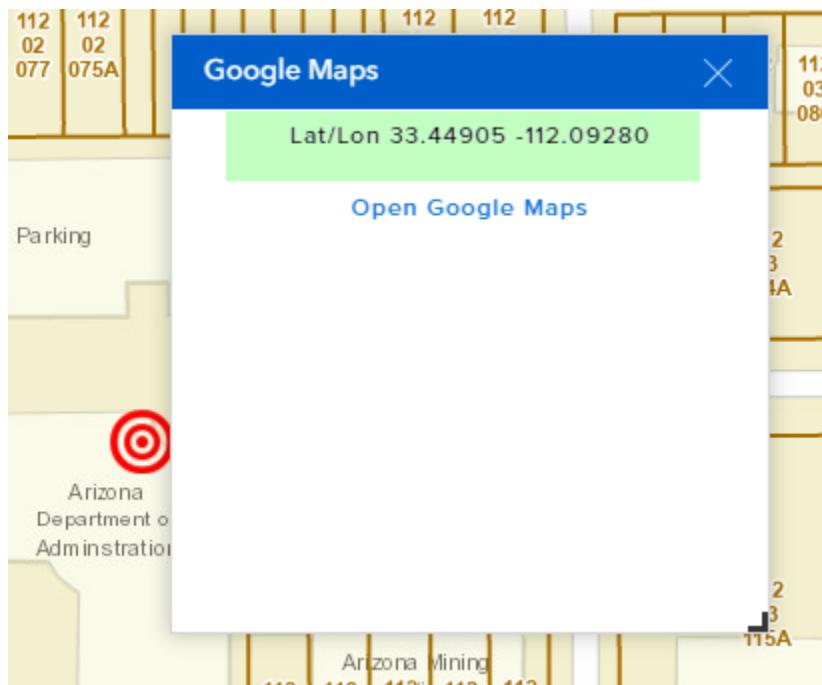


Notice that it says:

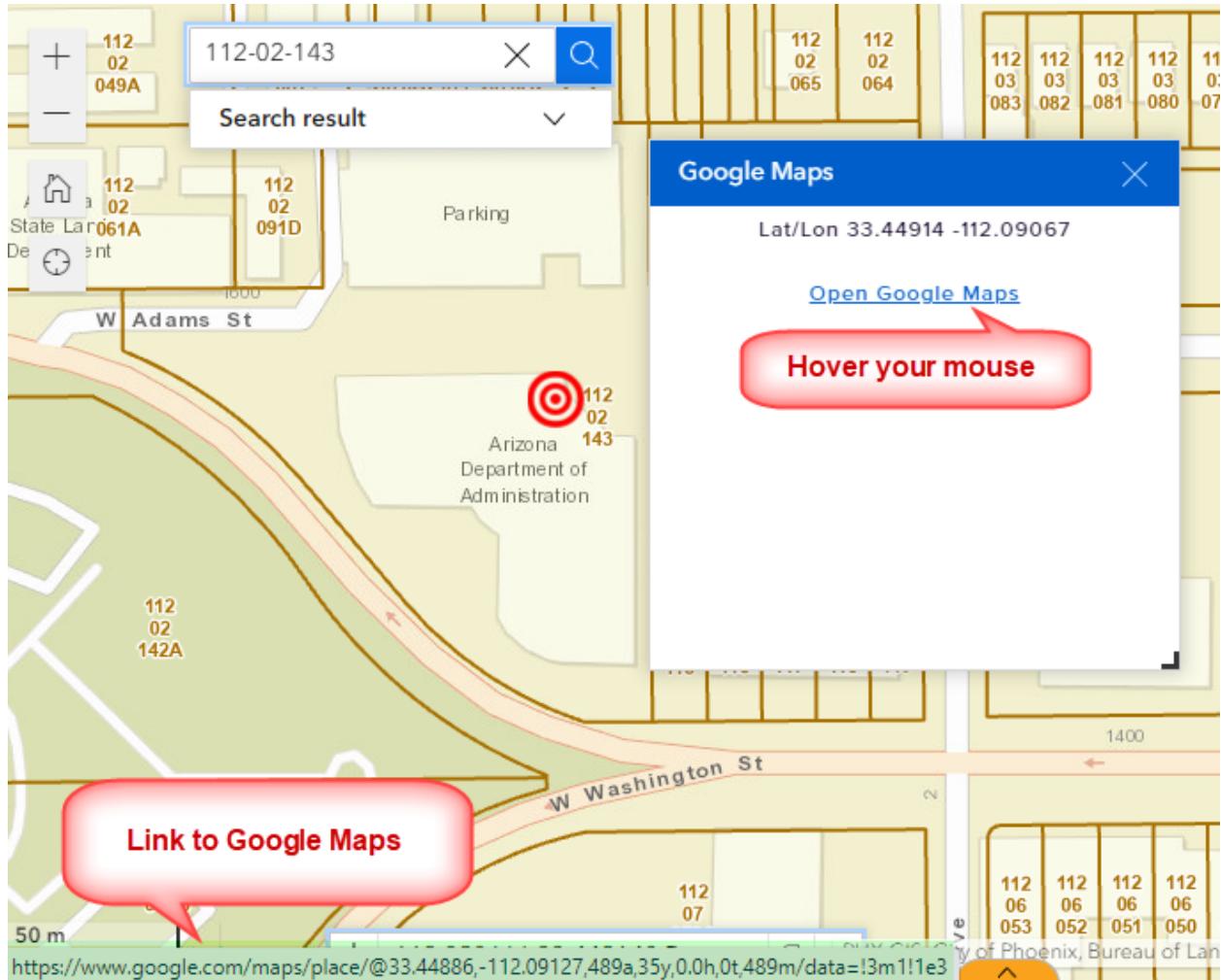
Lat/Lon (None – please mouse over the map).



Move your mouse over the map until the Lat/Lon values begin to display.

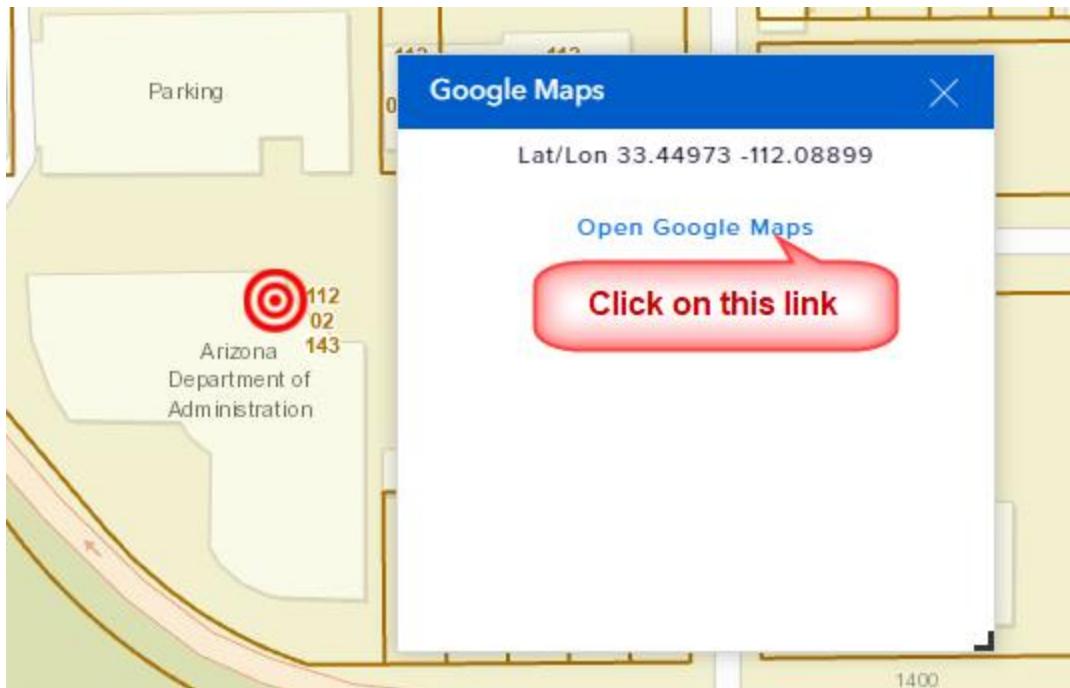


Hover your mouse over the Open Google Maps Link.



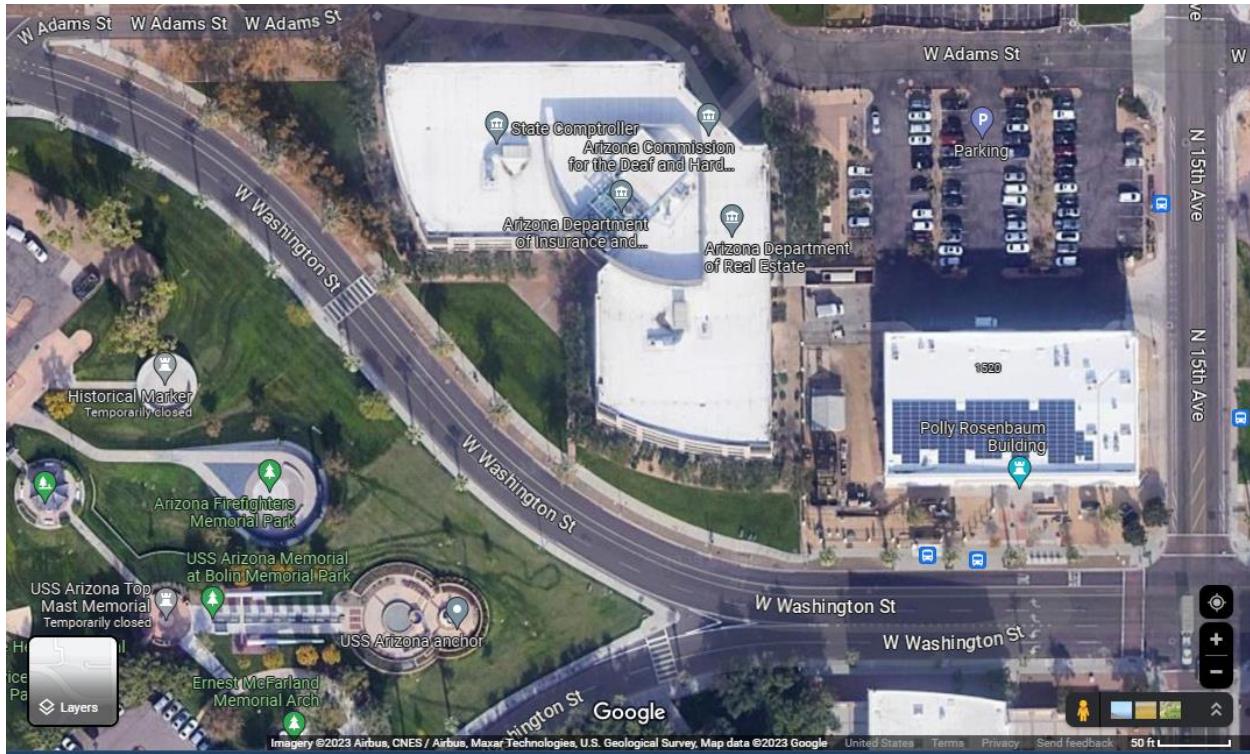
Make sure the status bar at the bottom displays the link to Google Maps.

Click on the Open Google Maps Link.



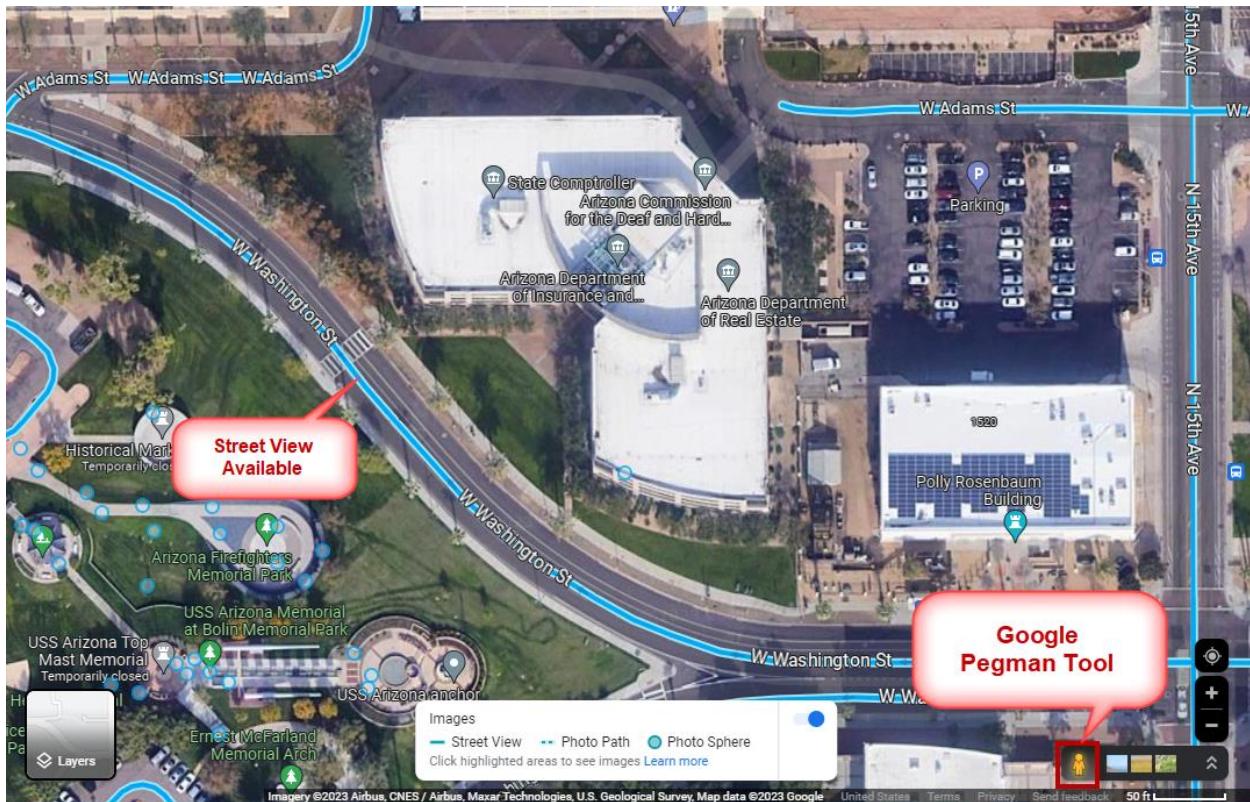
This will open a separate Google Maps Window.

<https://www.google.com/maps/@33.4487588,-112.0928446,193m/data=!3m1!1e3?entry=ttu>



Activate the Google Pegman Tool.

All the streets having Street View information will appear in blue.



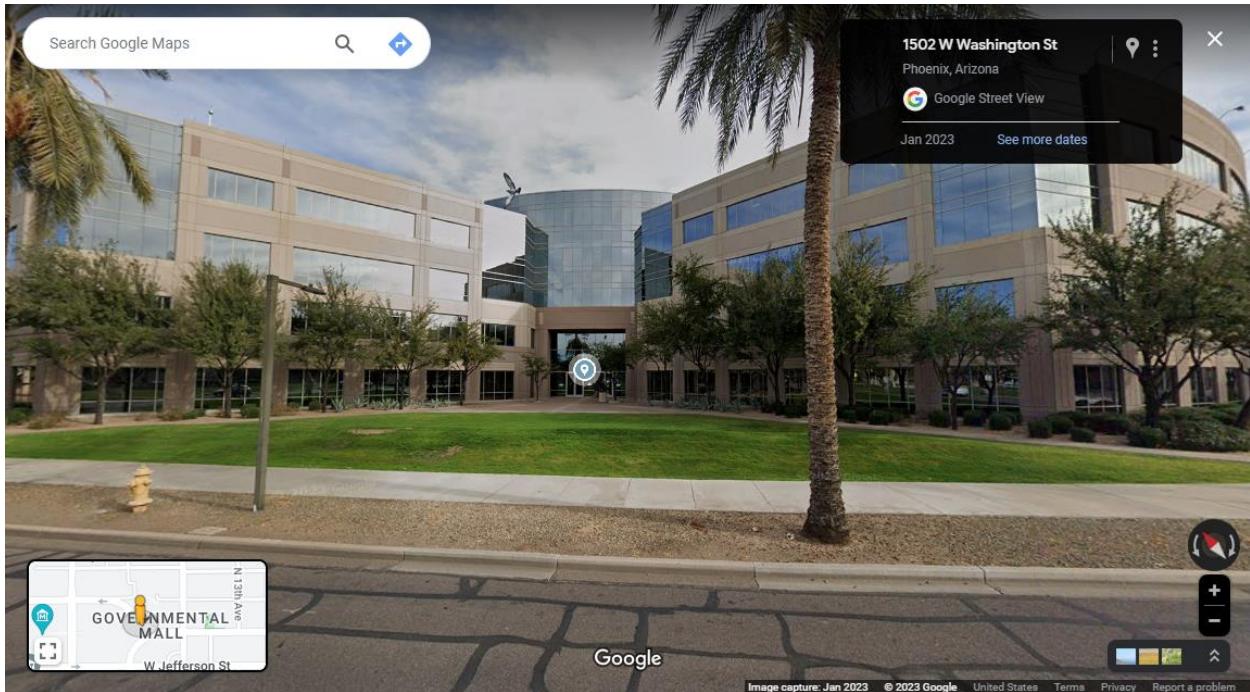
Hover your mouse over any spot on the blue street segments.

A thumbnail picture will appear.

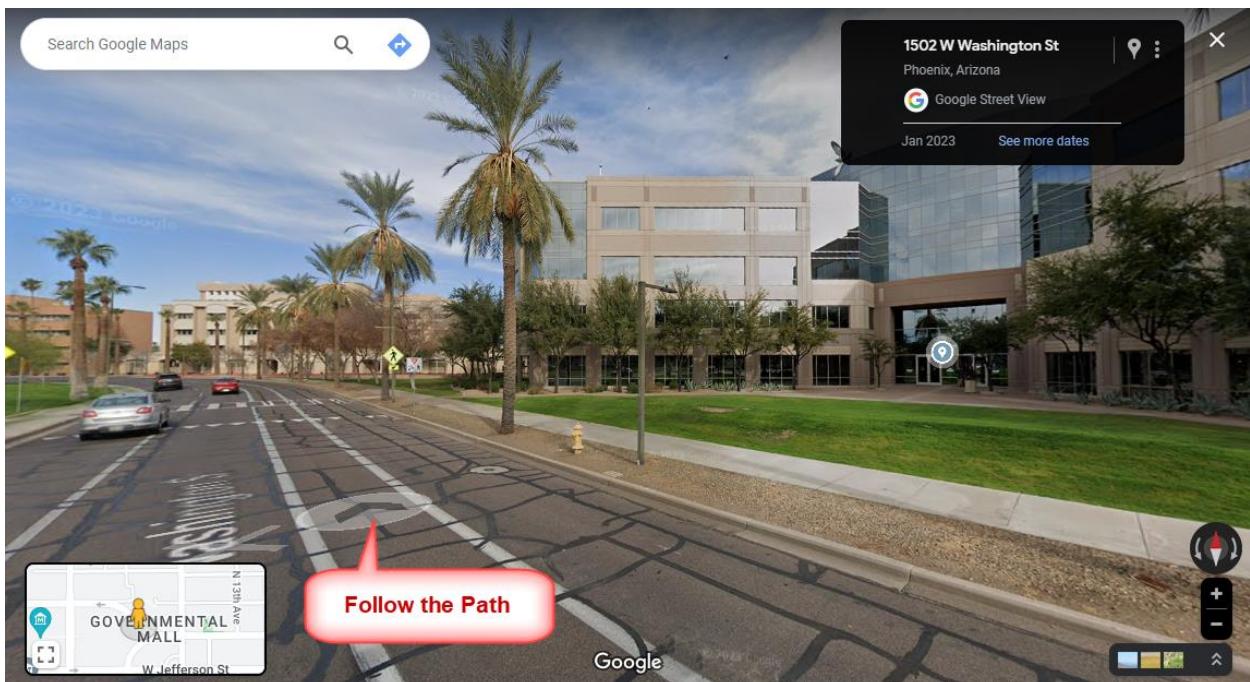


Click on a spot on any blue street segment.

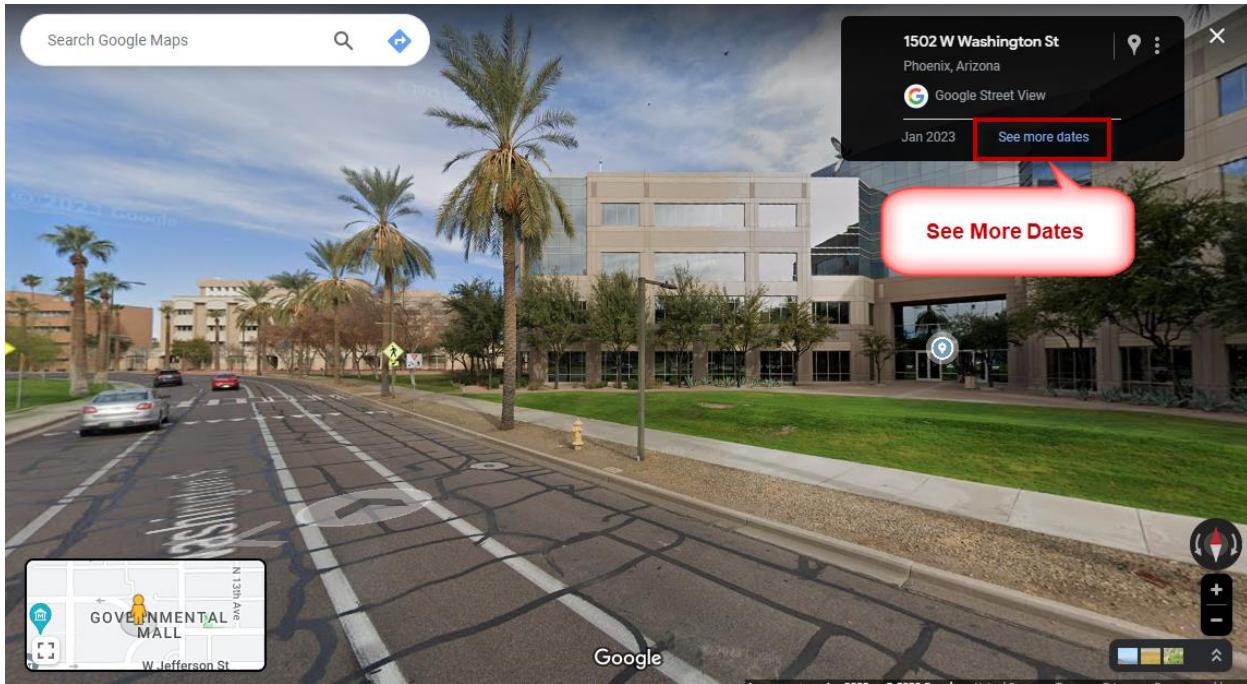
This will open the Google Street View window.



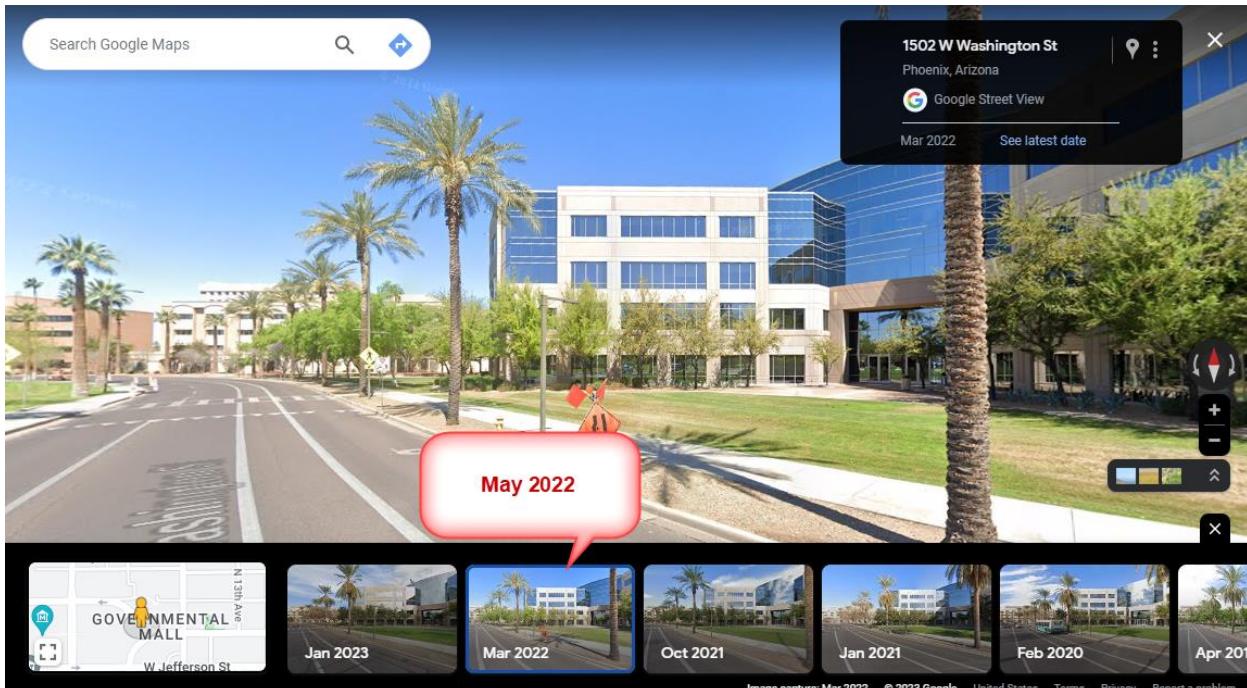
You can pan and zoom within this window and follow along the path markers.



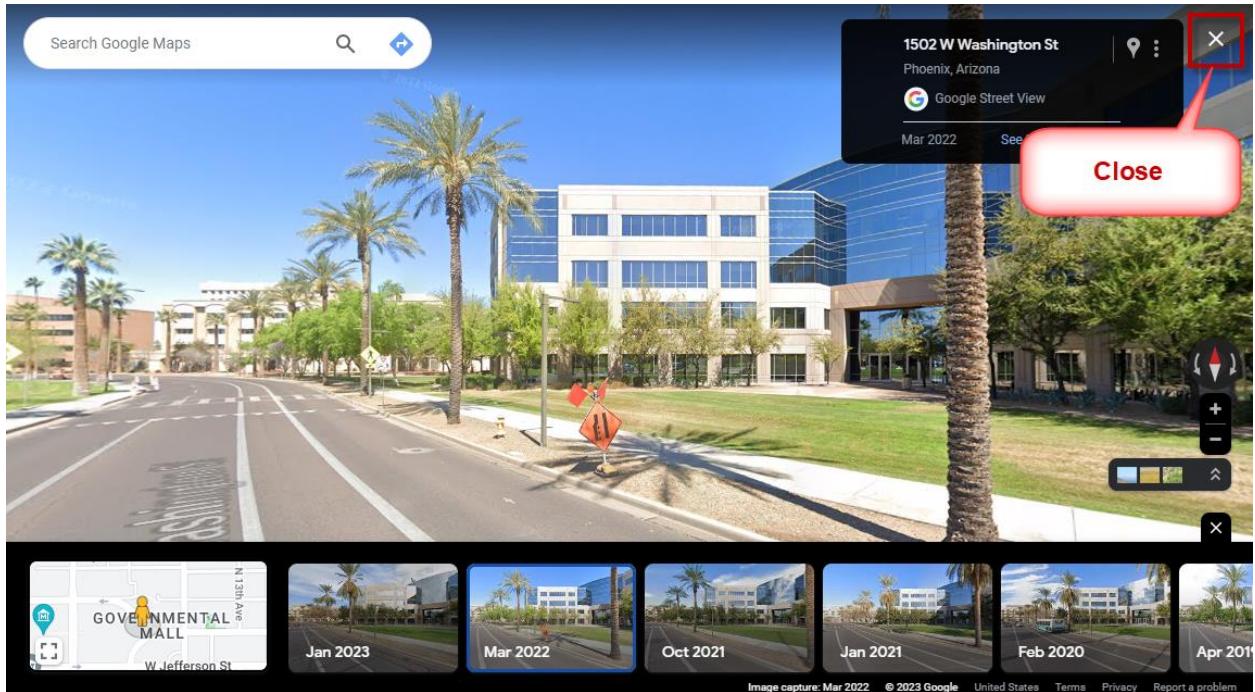
Click on See More Dates.



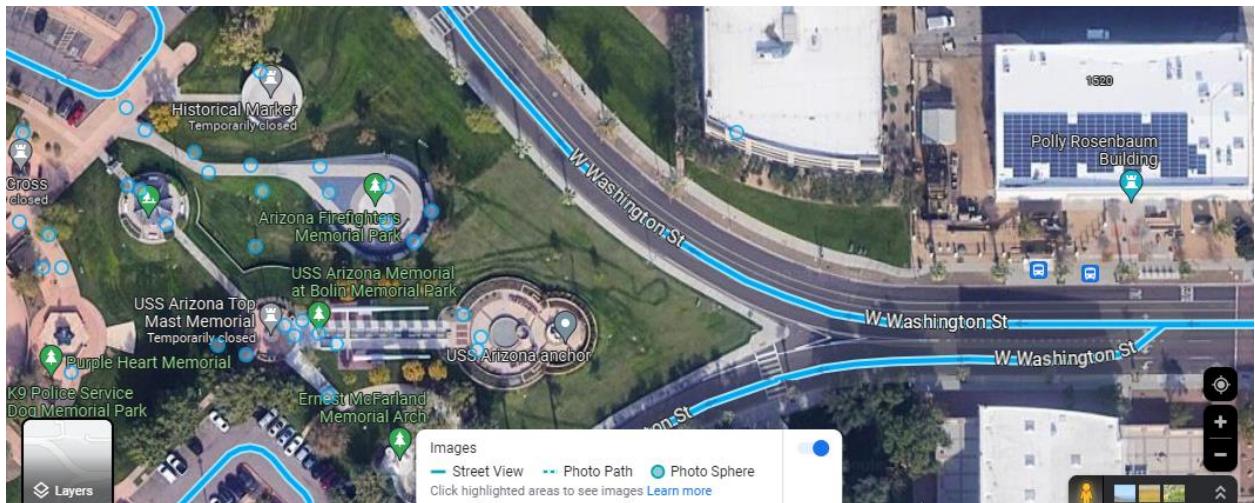
Select May 2022



Close the Google Earth Window.



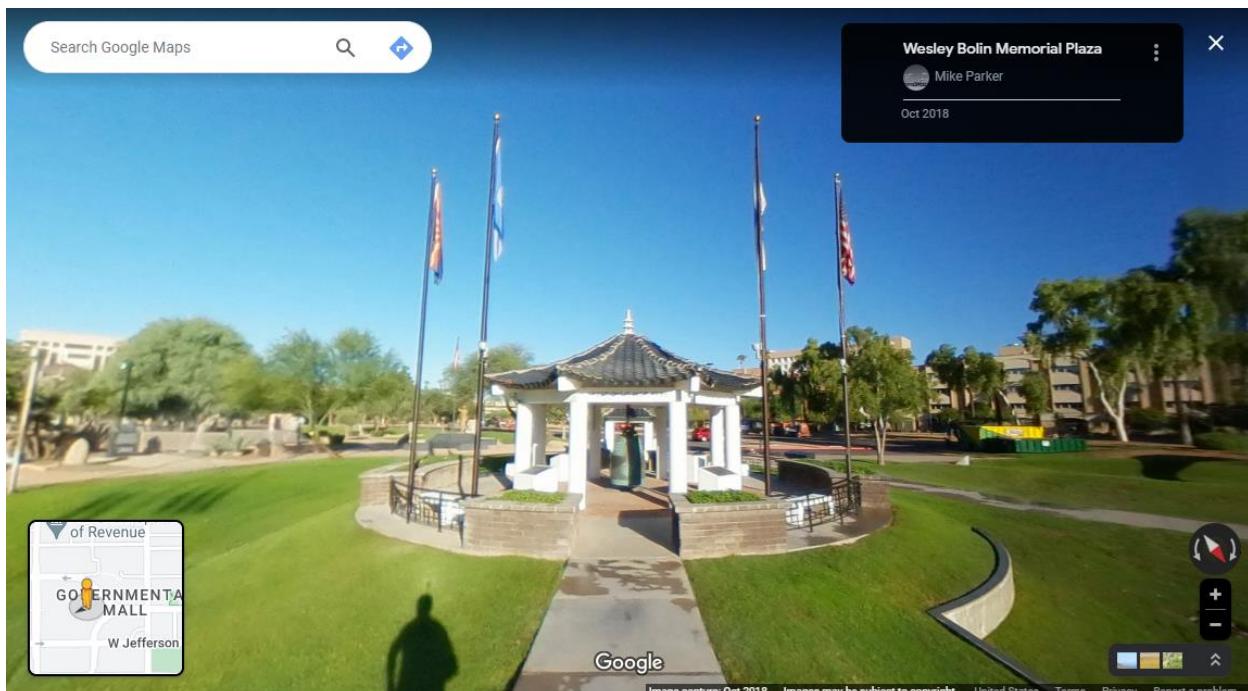
You can pick another spot.



Click on any Photo Sphere.

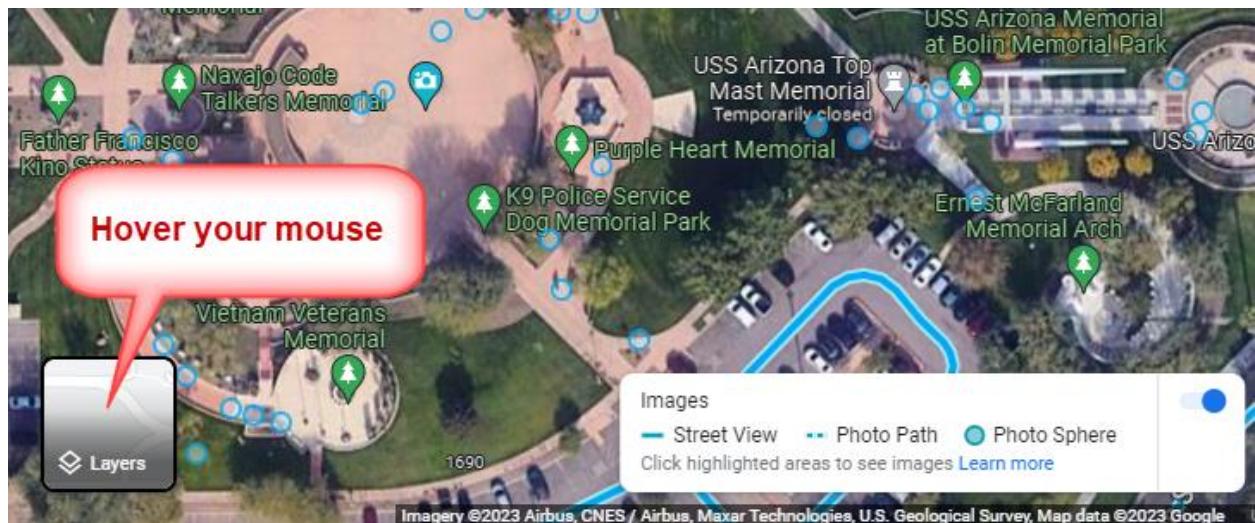


You can look around 360 degrees centered around this spot.

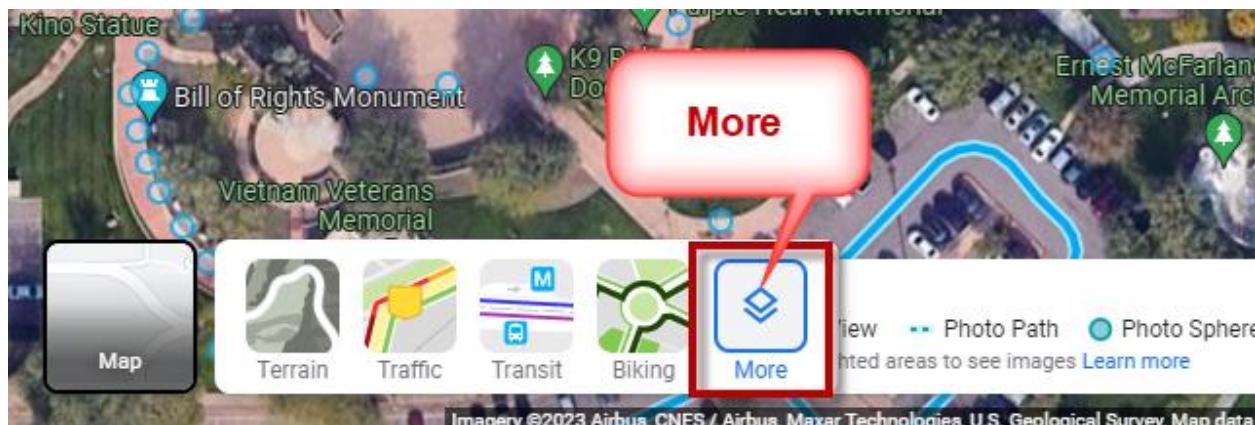


Close this window.

Hover your mouse over the Map Layers button.

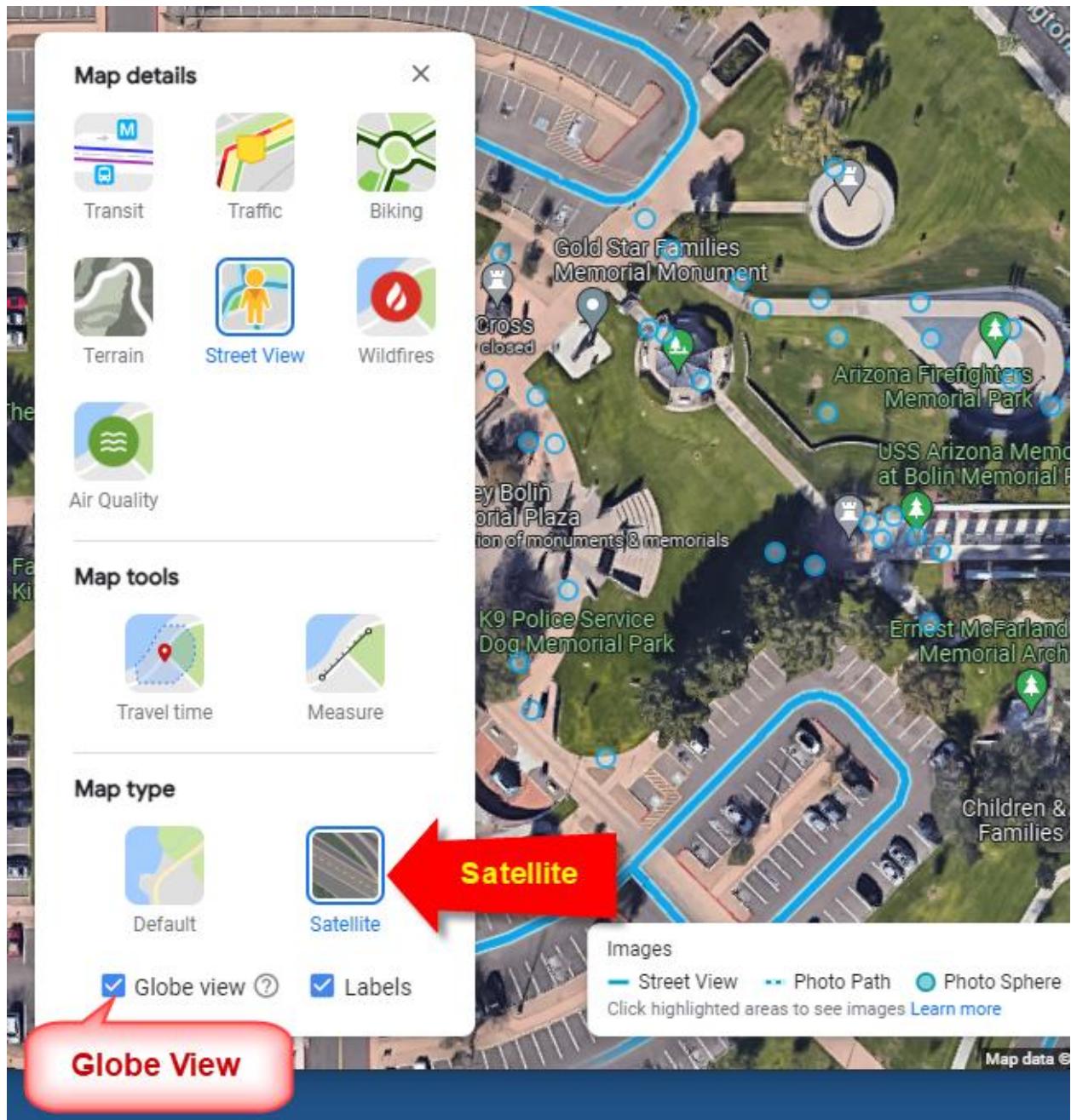


Select More.



Turn on **Globe View**

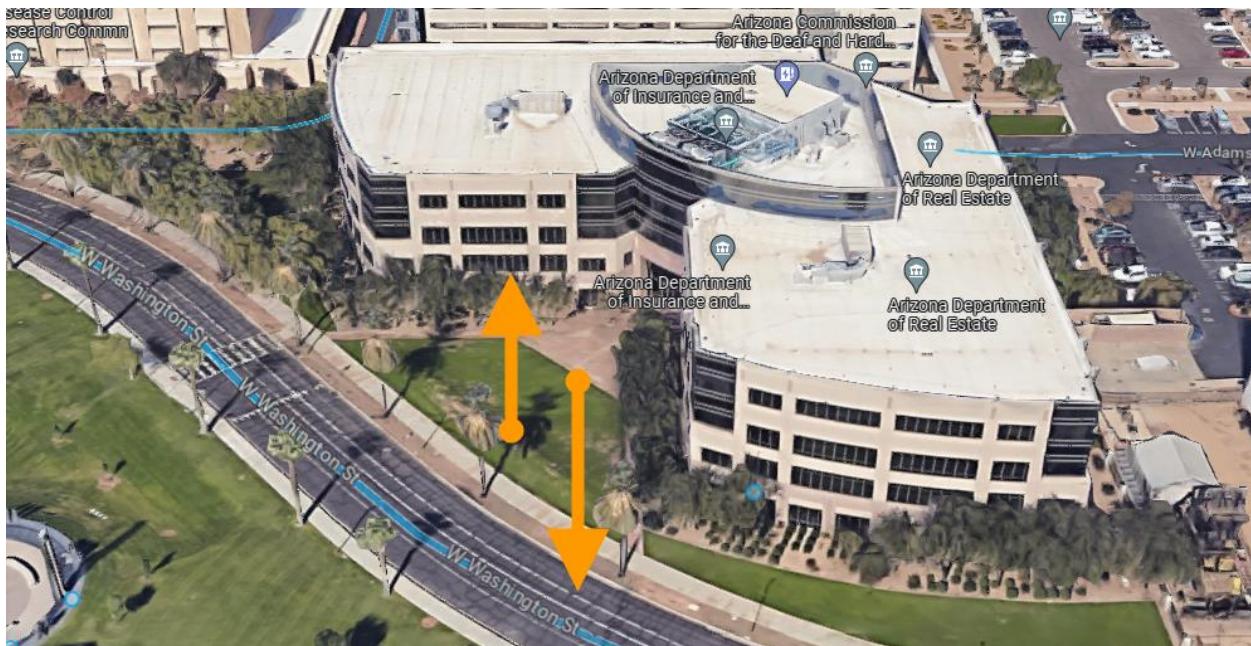
Select the **Satellite** Imagery.



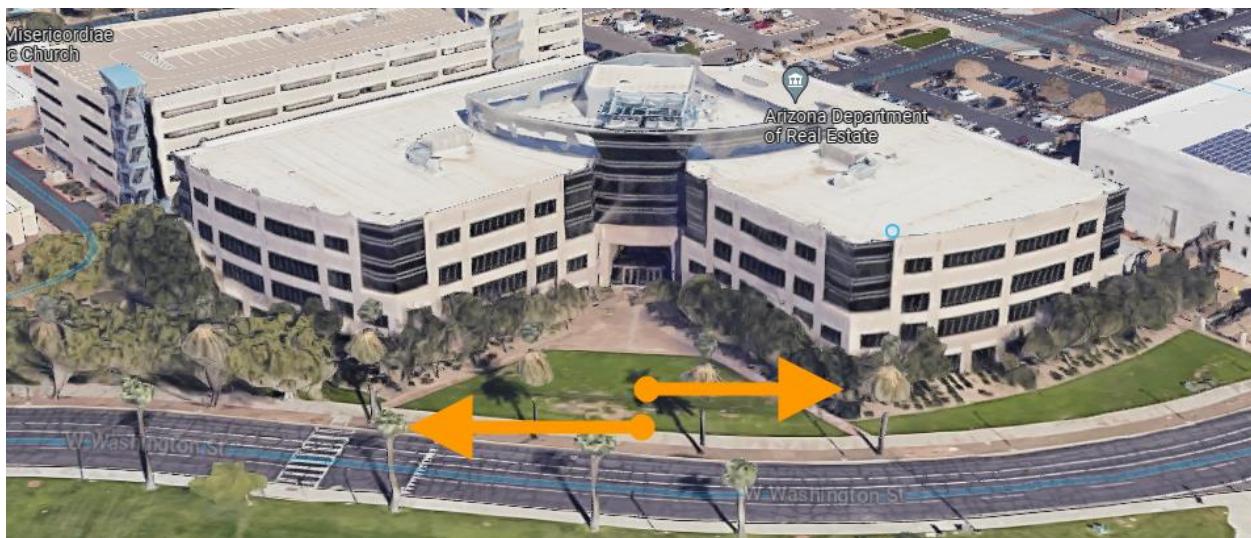
You are now ready to experience your world in Google 3D!

Hold down your **Control Key** while dragging your mouse over the map.

To change the **Tilt**, drag your **mouse up or down** while holding down the Control Key.



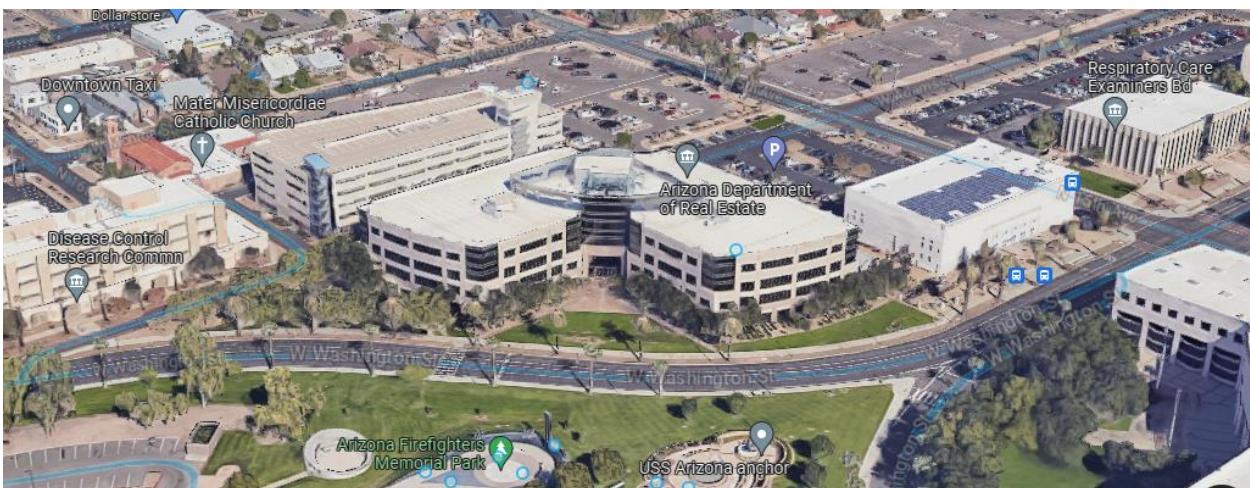
To change the **Rotation**, drag your **mouse left or right** while holding down the Control Key.



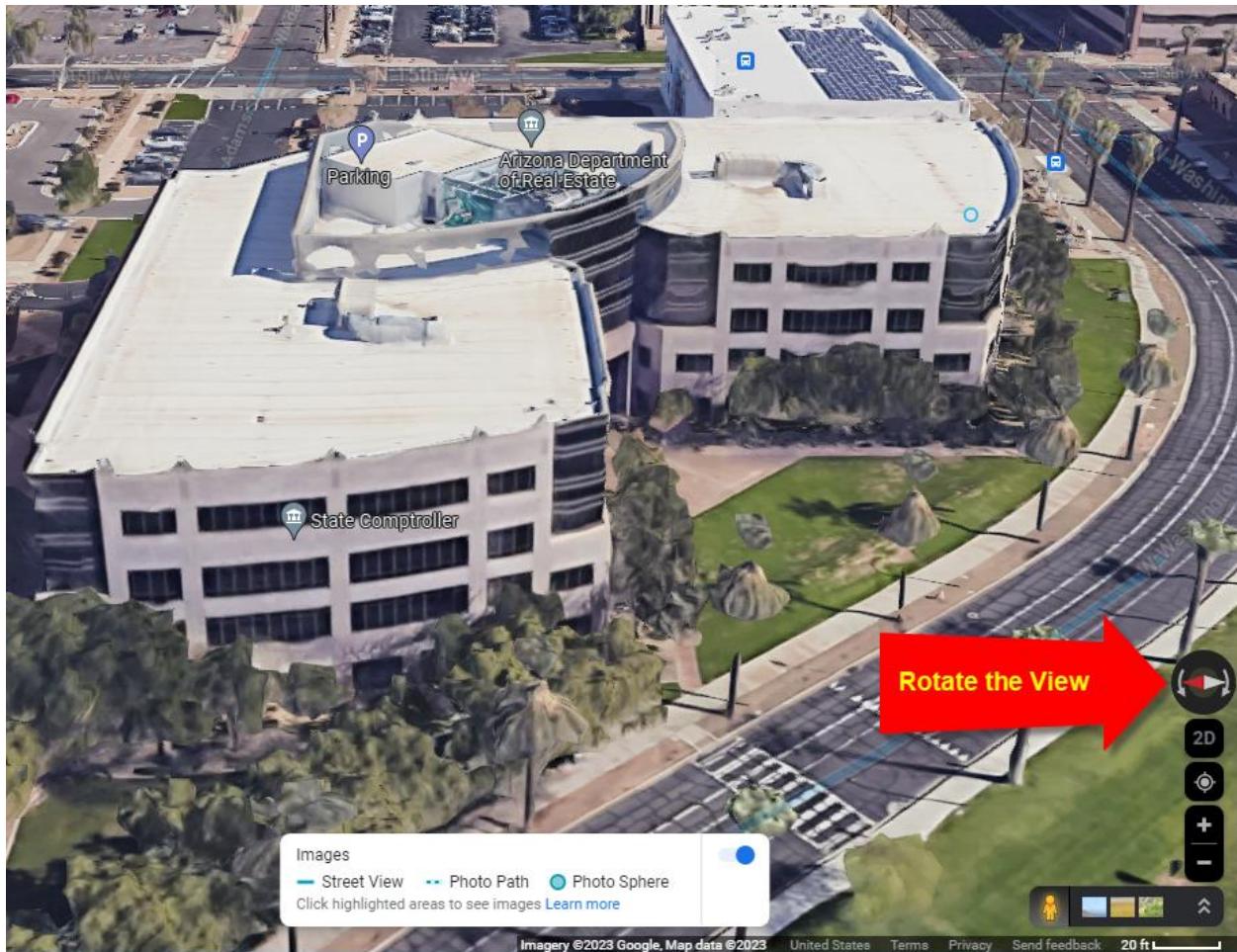
**Zoom In** by scrolling your mouse wheel forward.



**Zoom Out** by scrolling your mouse wheel backwards.



You may use the **Compass Tool** to Rotate the View in 90-degree increments heading North, East, South, West.

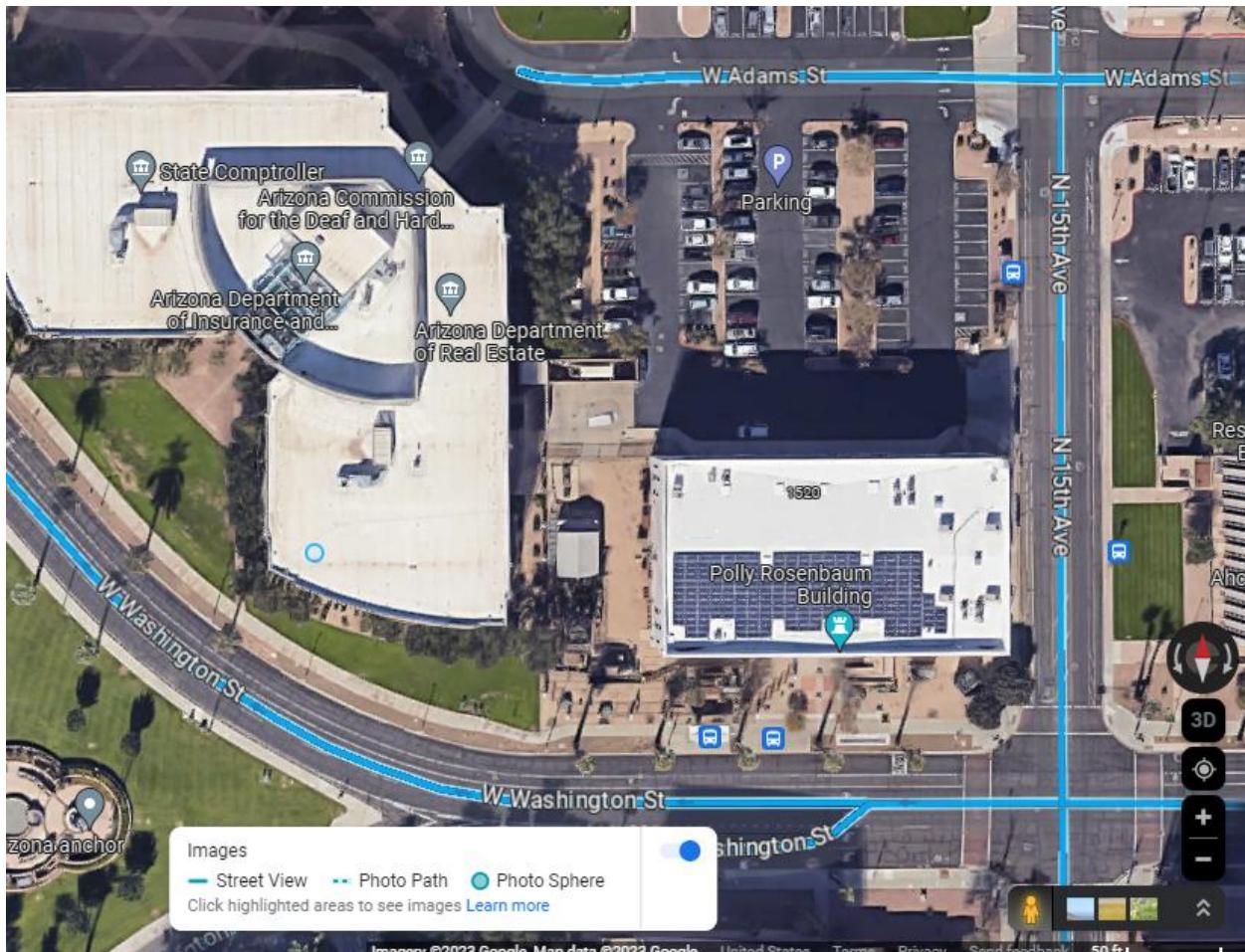


Clicking on the center of the Compass Tool will reset the view to face North.

Click on the 2D/3D toggle.



You are back to viewing your world in 2D.



Deactivate the Google Pegman Tool.

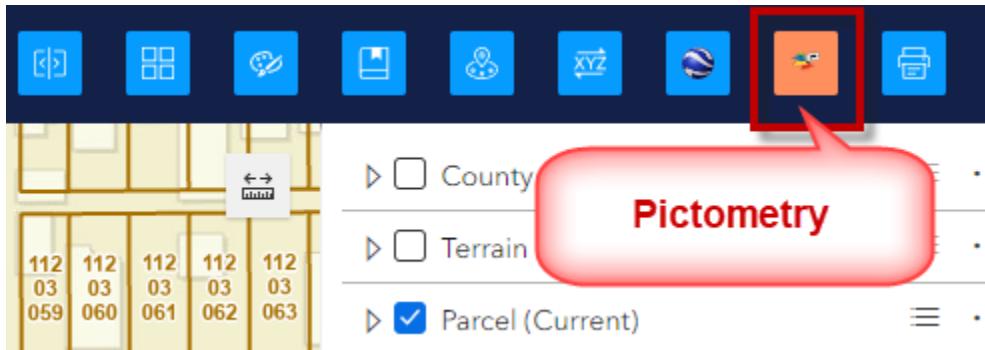


This will remove the Street View, Photo Path and Photo Sphere images.

## Pictometry Widget

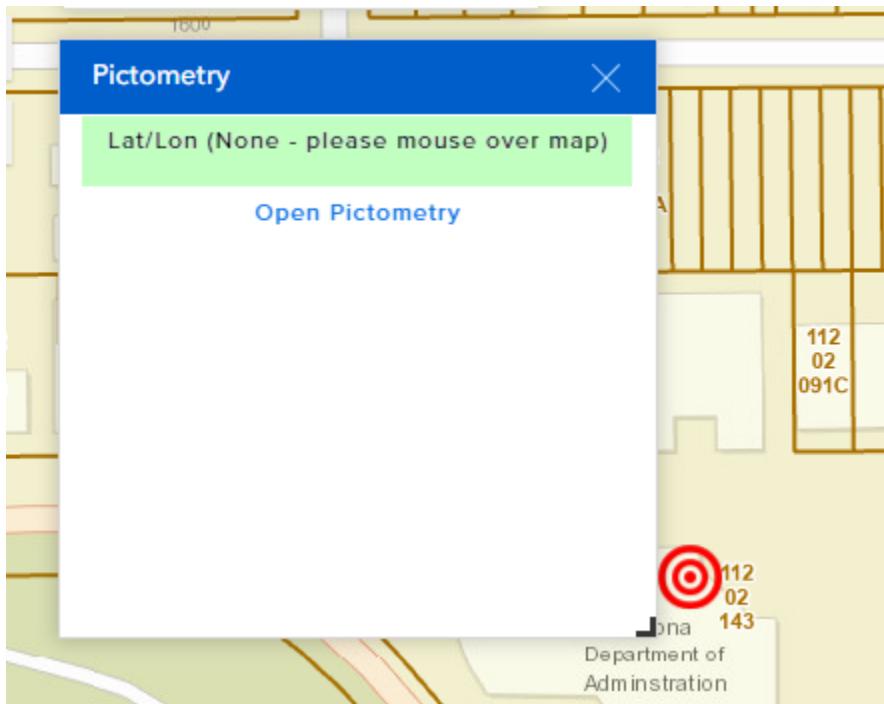
Close the Google Maps Widget.

Open the Pictometry Widget.



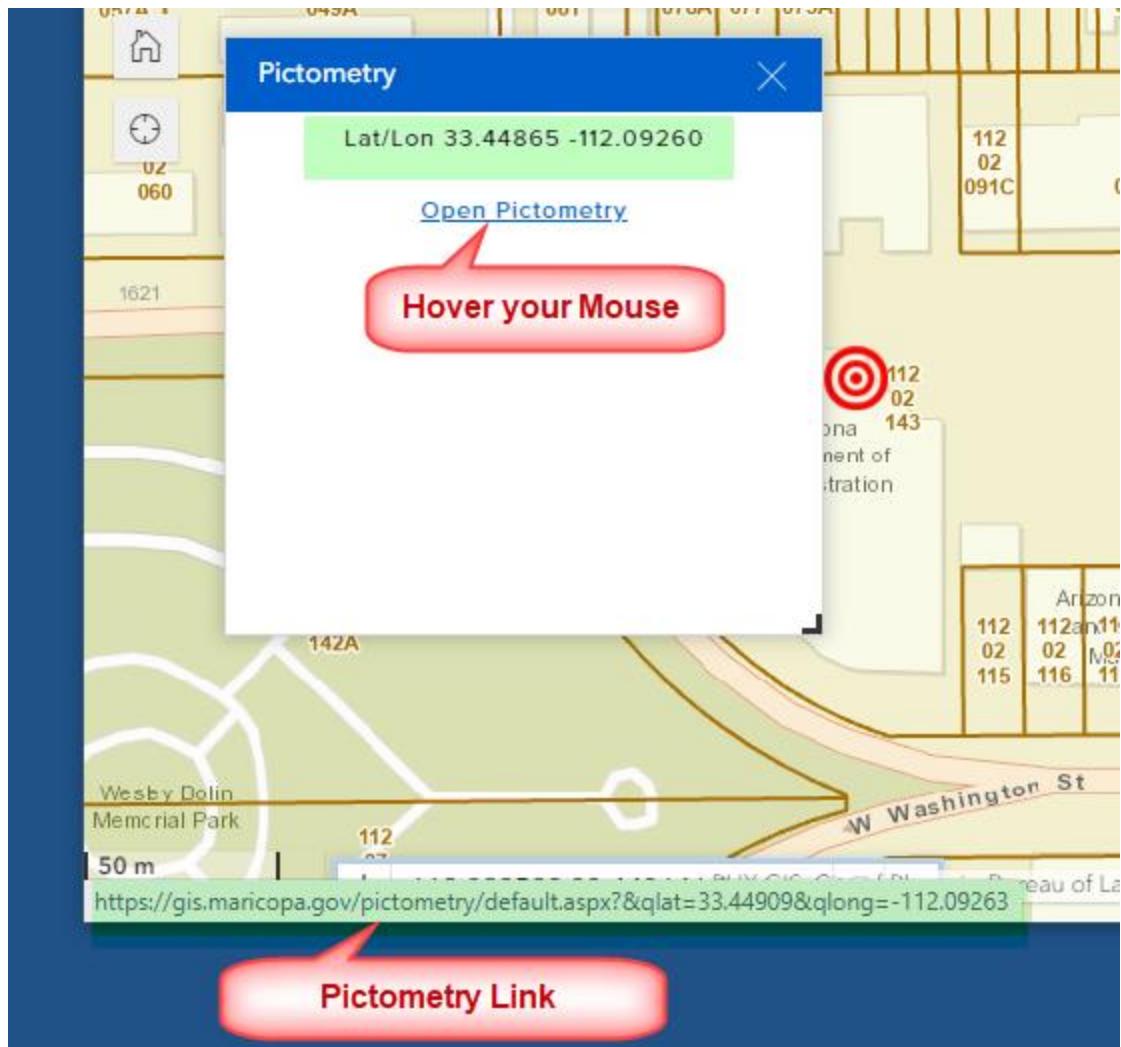
You will see this note:

Lat/Lon (None – please mouse over the map).



Move your mouse over the map until you see a Lat/Lon readout.

Hover your mouse over the Open Pictometry Link.

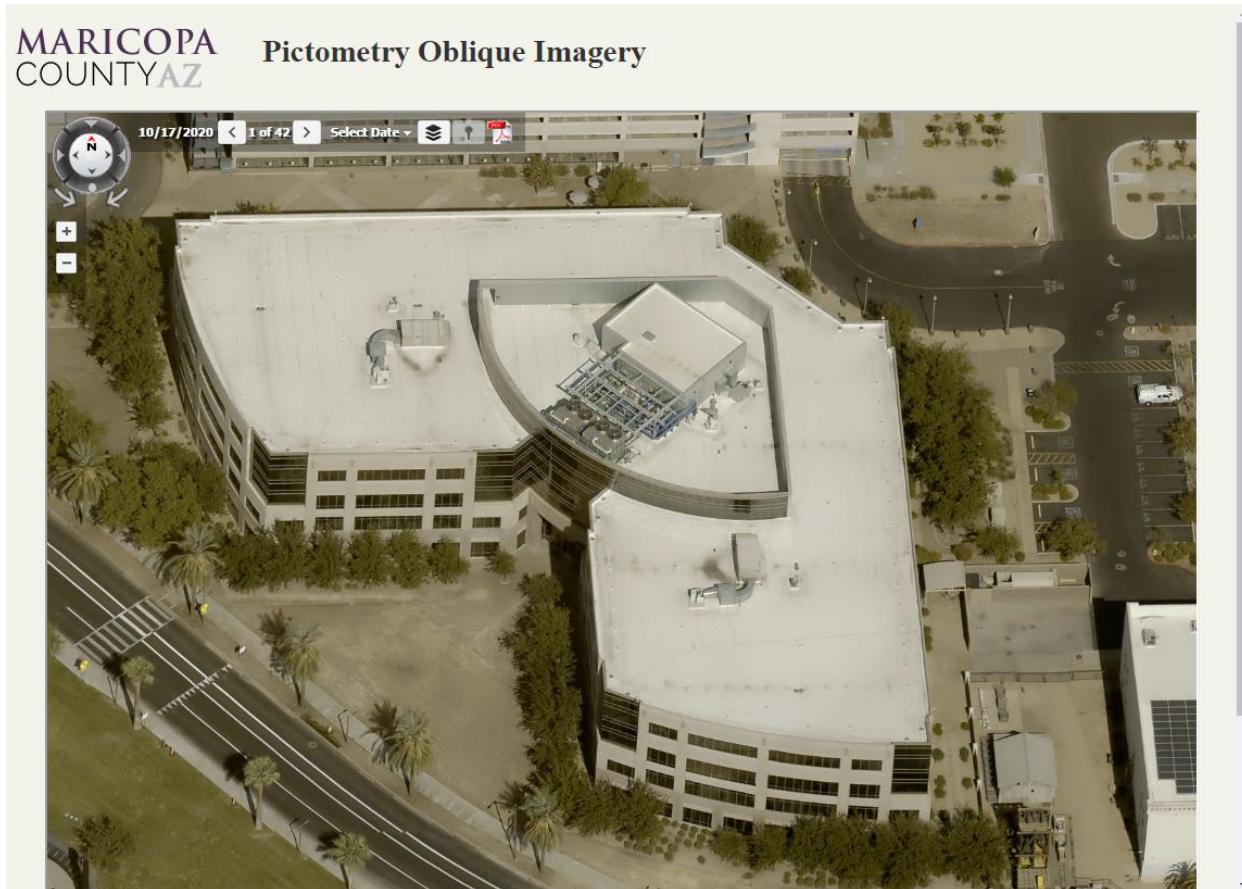


Make sure you see the Pictometry Link in the Status Bar below.

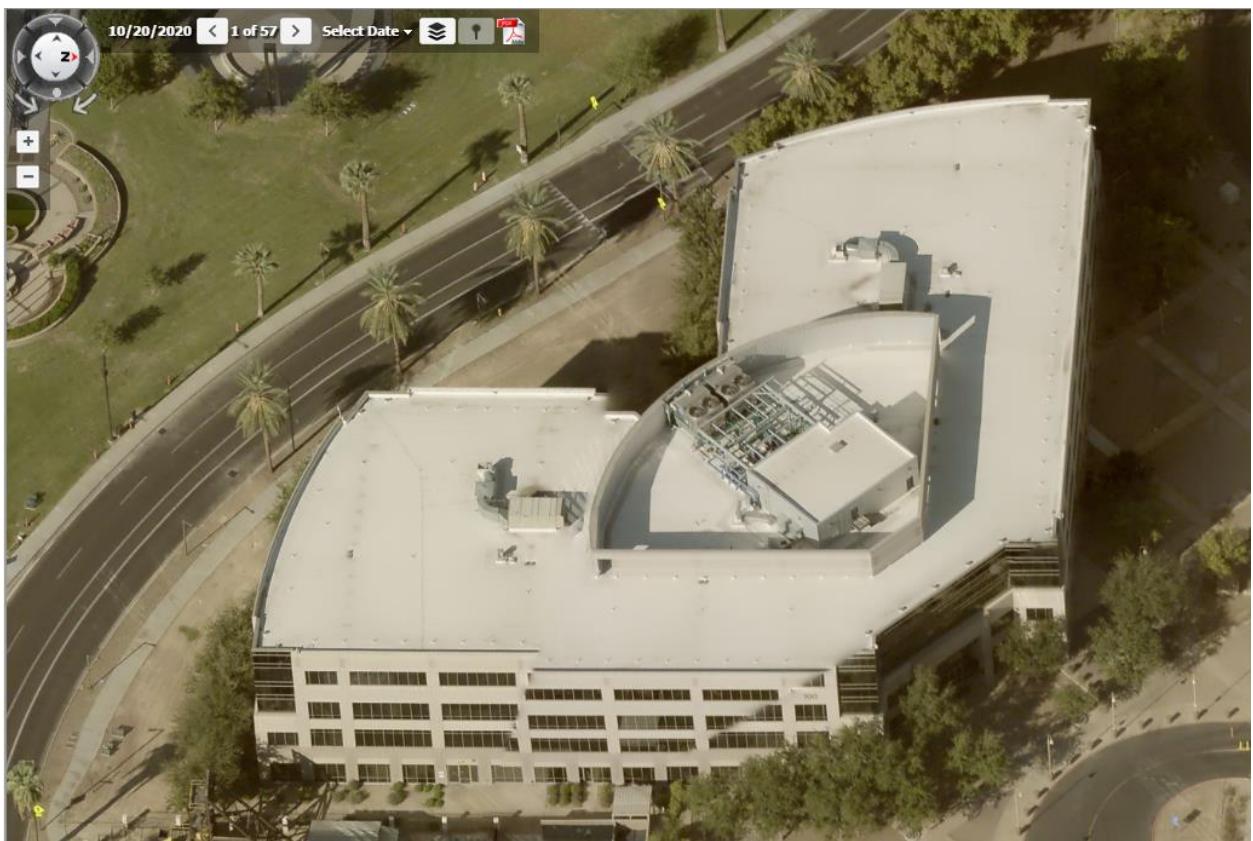
Click on the Open Pictometry Link.

This opens a separate Pictometry Window displaying high-resolution oblique imagery.

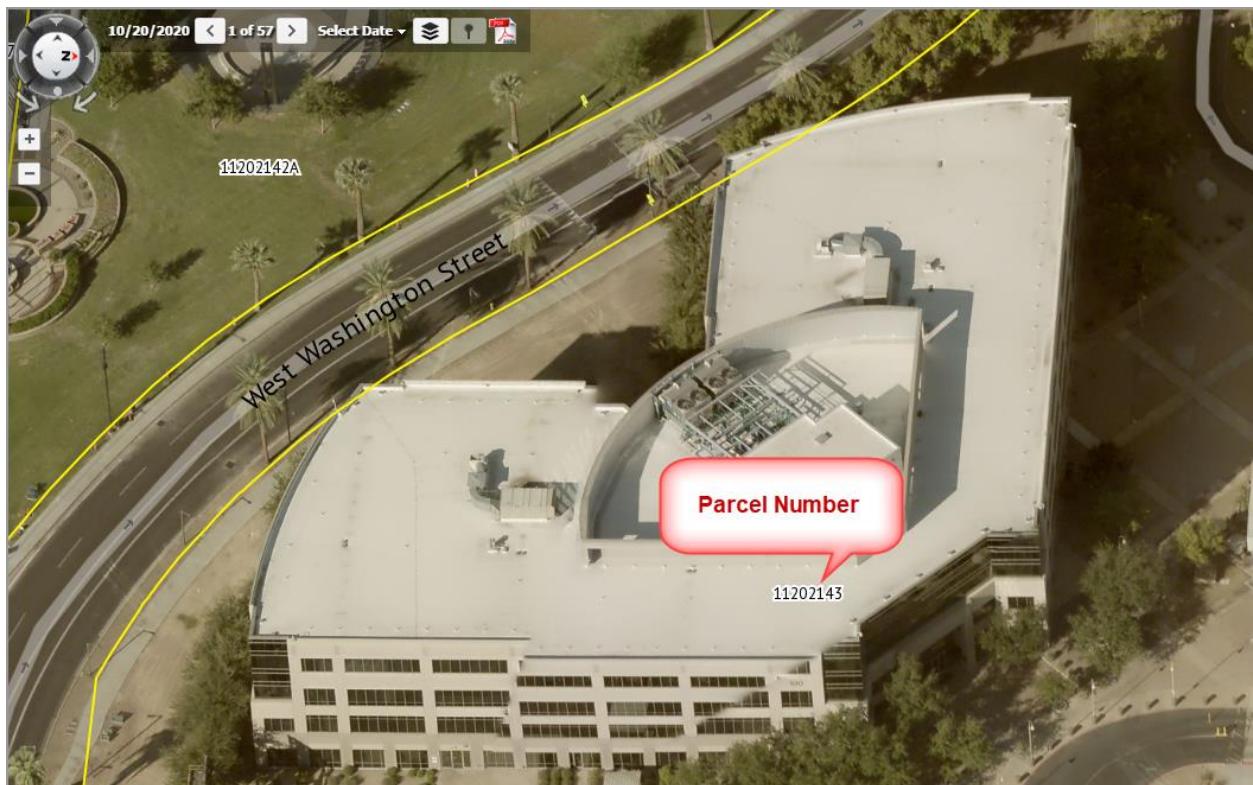
<https://gis.maricopa.gov/pictometry/default.aspx?&qlat=33.44909&qlong=-112.09263>



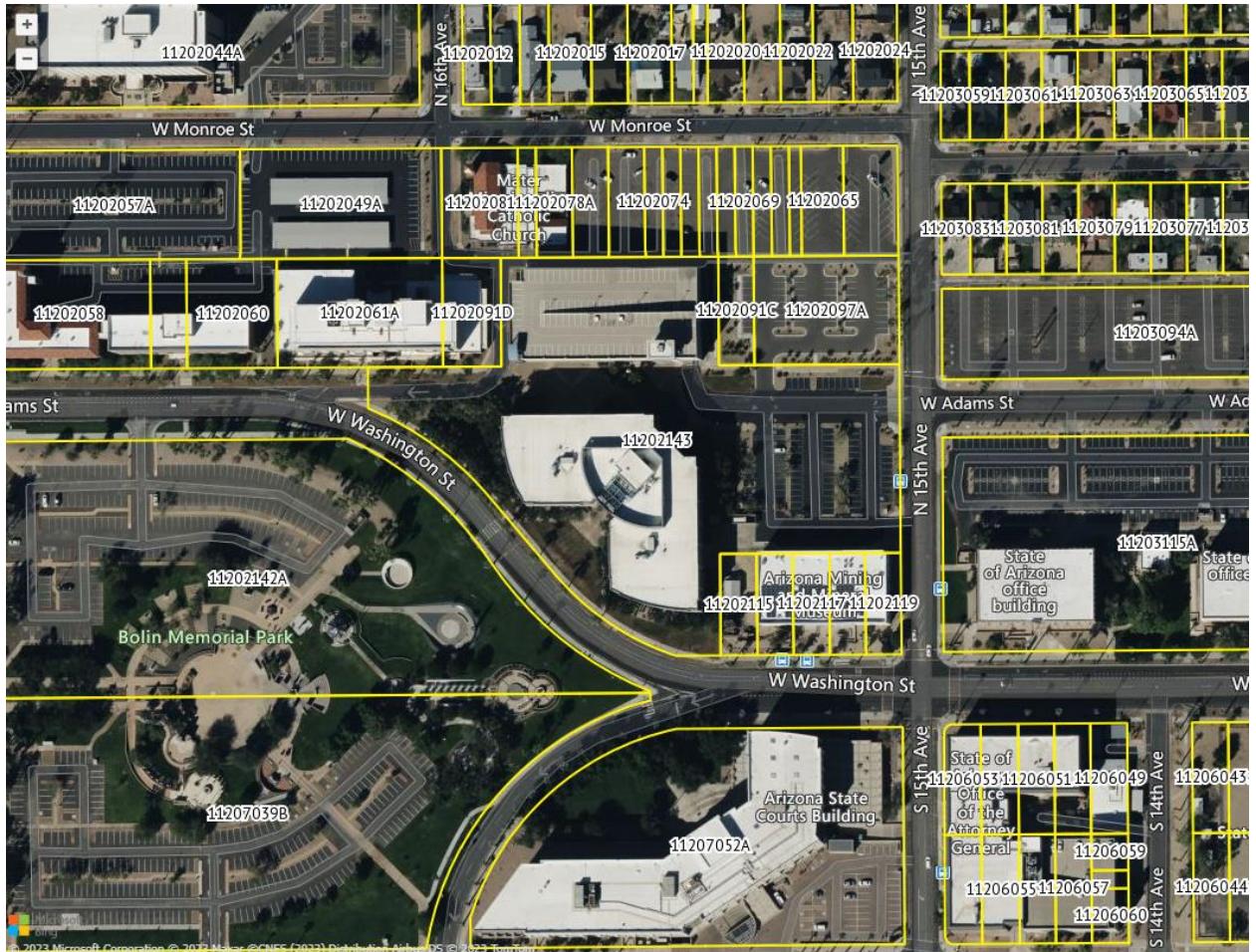
You can Rotate the image.



You can turn on the Streets, Contours and the Parcels layer.



You can zoom in and out.



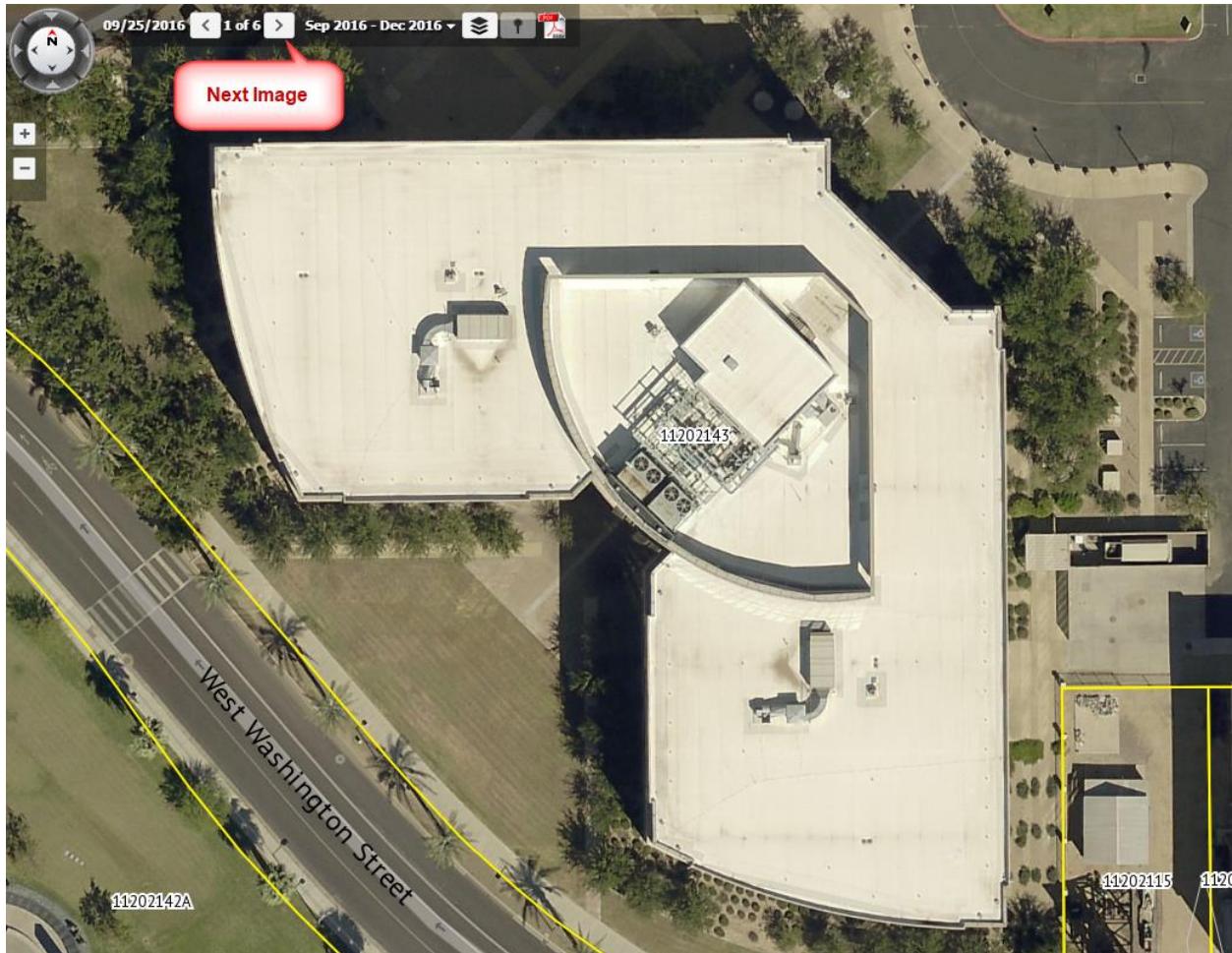
You can view the imagery from a specific year.

Select 2016 Sep – 2016 Dec



There are 6 images available for 2016.

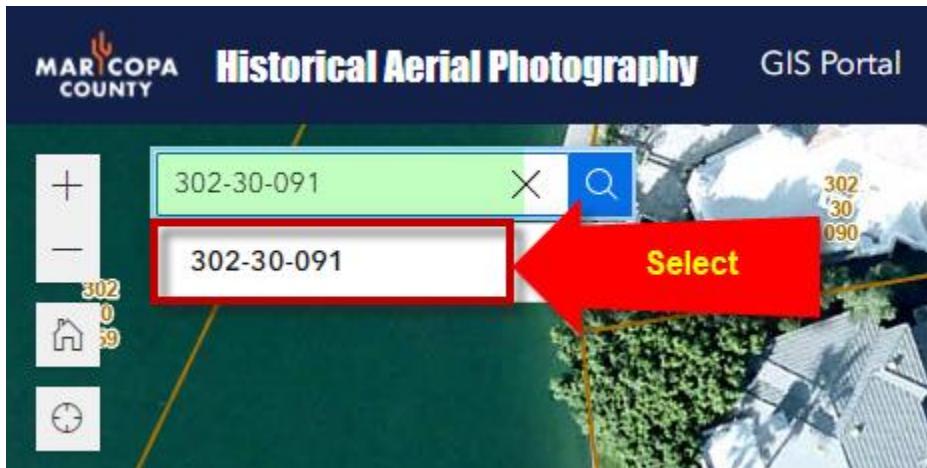
Press use the forward and back arrows to browse through these images.



## Print Widget

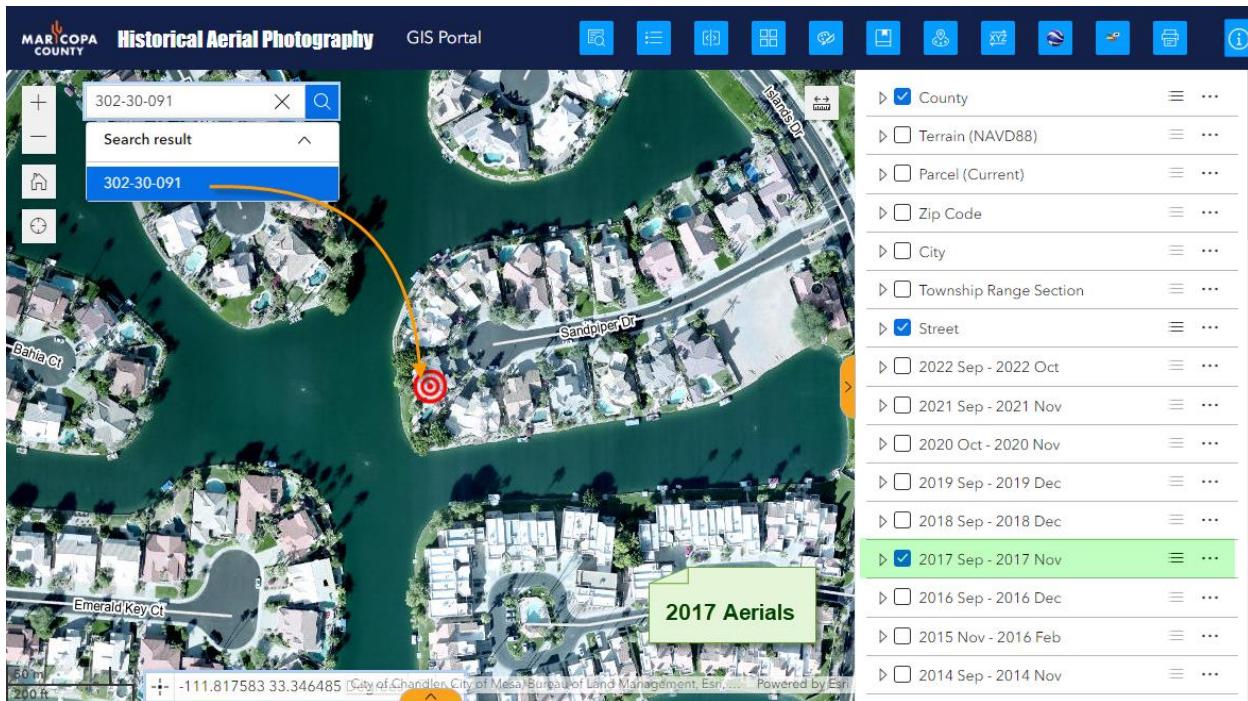
Zoom to your area of interest by entering a Street Address, Cross Street or Parcel Number in the Search Tool.

Example Parcel Number = 302-30-091



Turn off the 2022 Aerials.

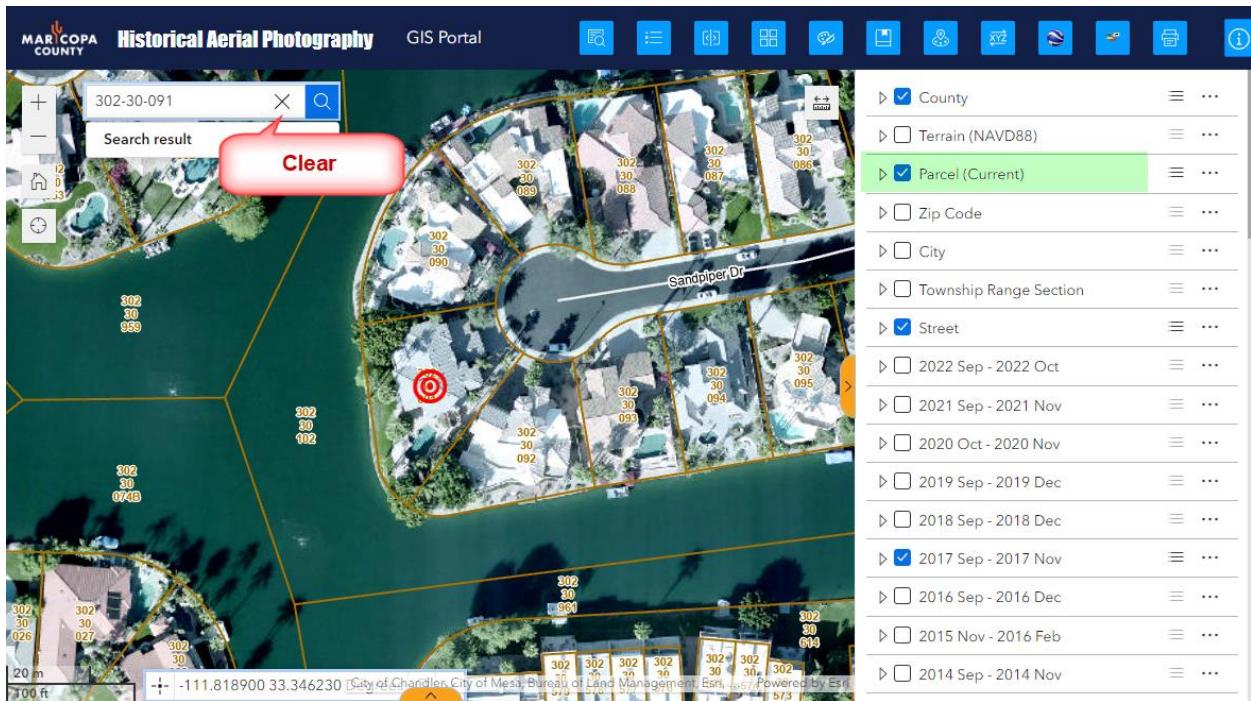
Turn on the 2017 Aerials.



Zoom in closer.

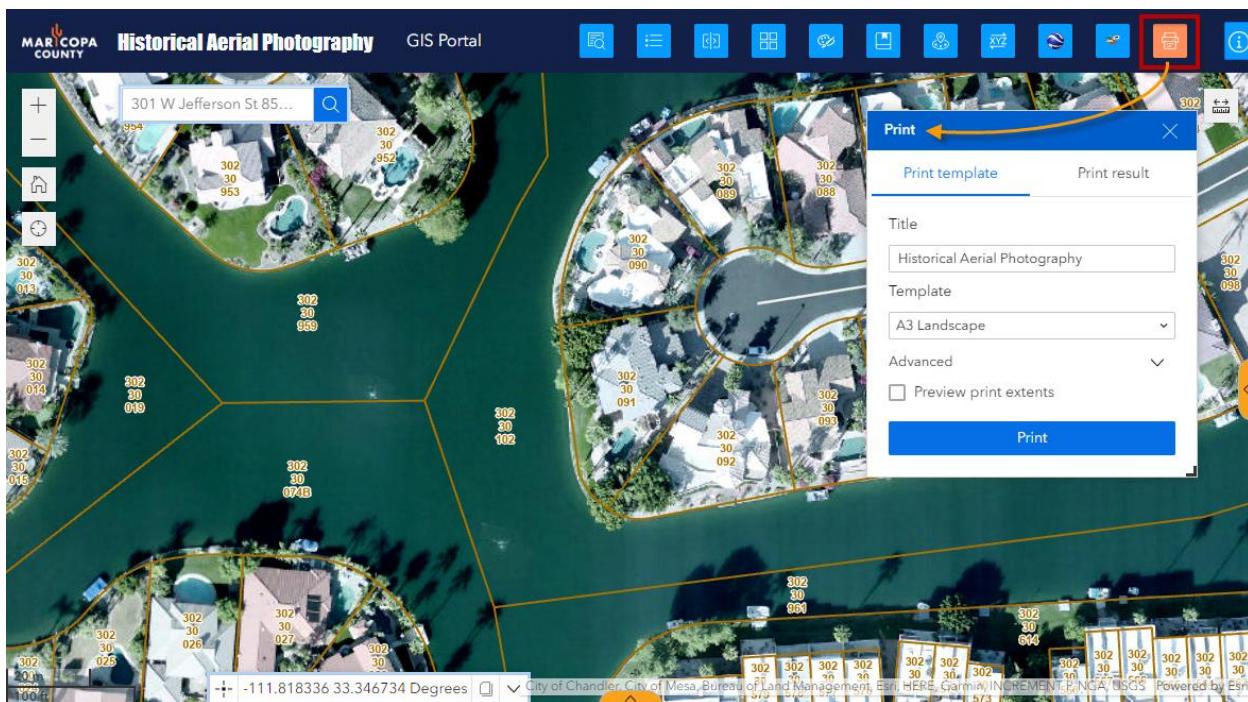
Turn on the Parcel Layer.

Clear the result in the Search Tool if you wish to remove the red target symbol.

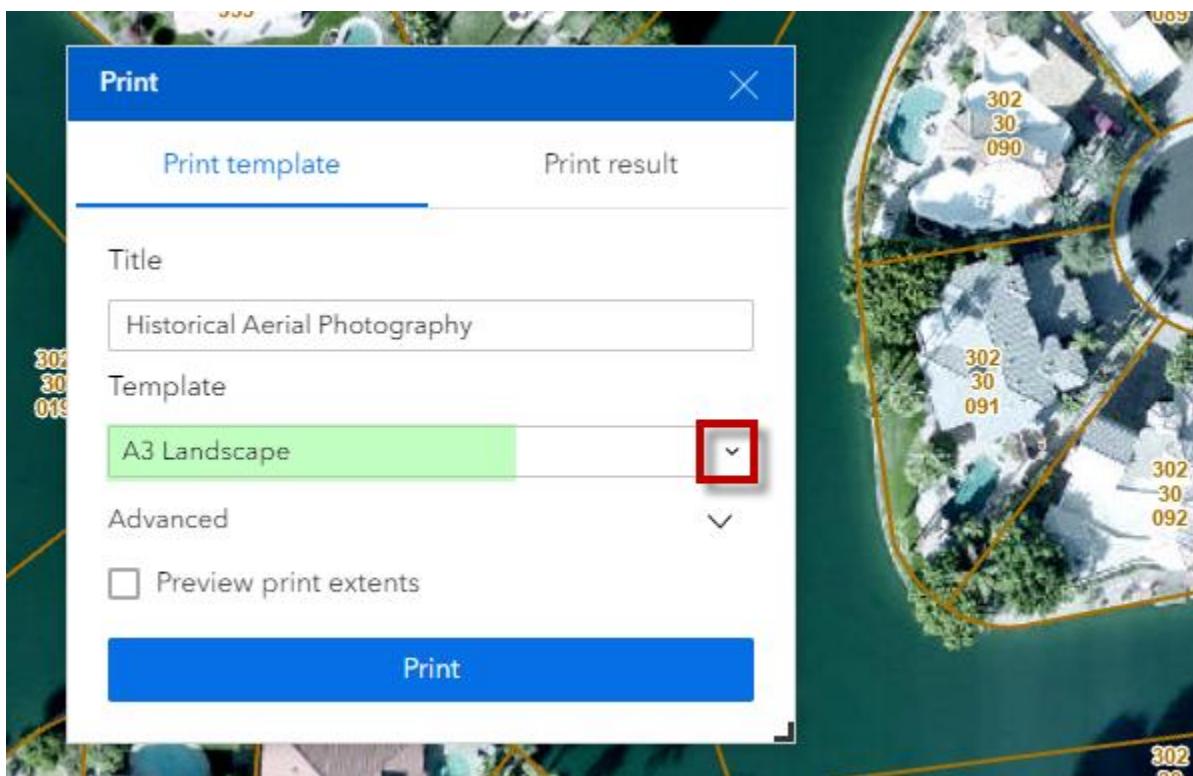


Collapse the right Sidebar.

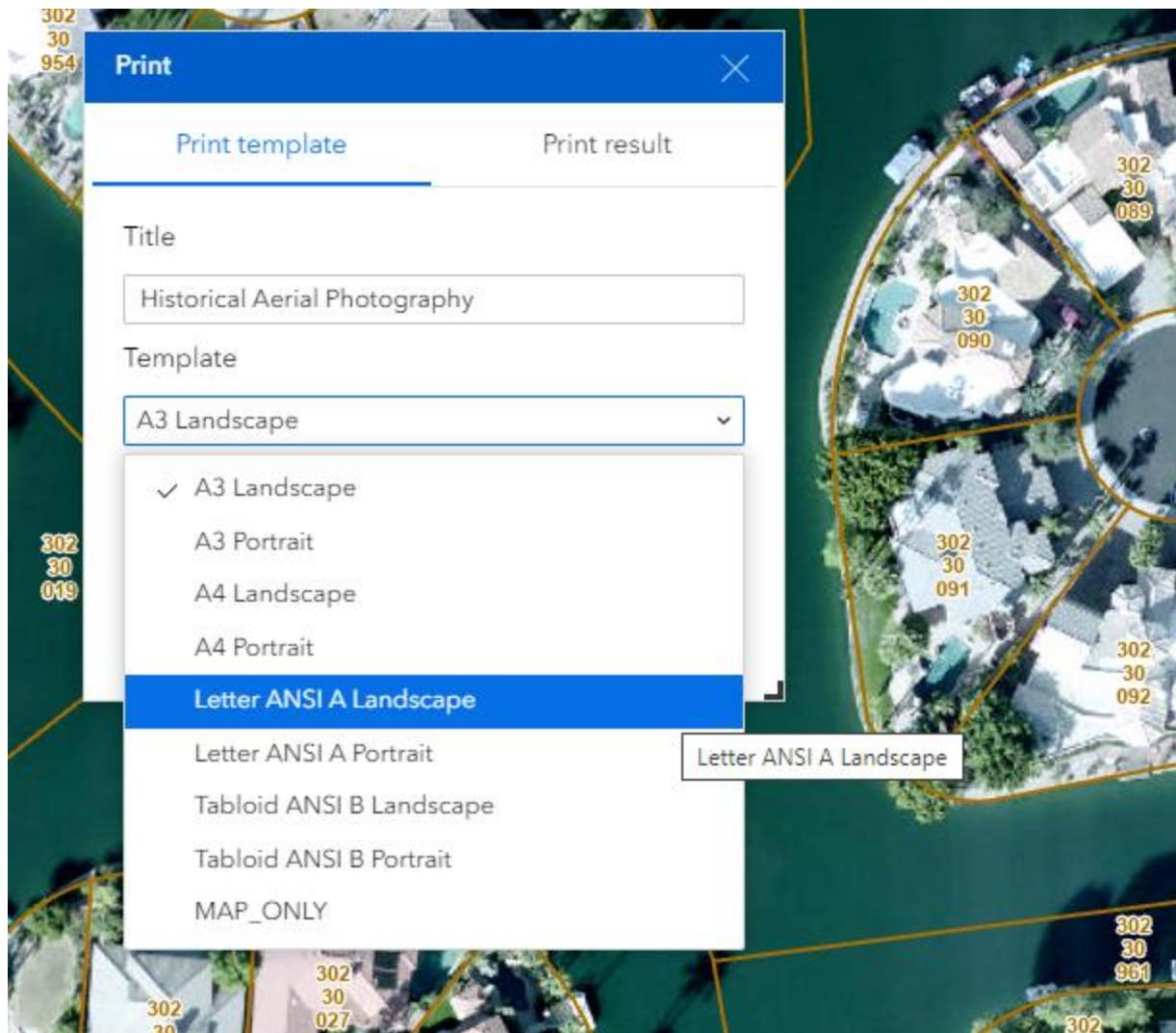
Open the Print Widget.



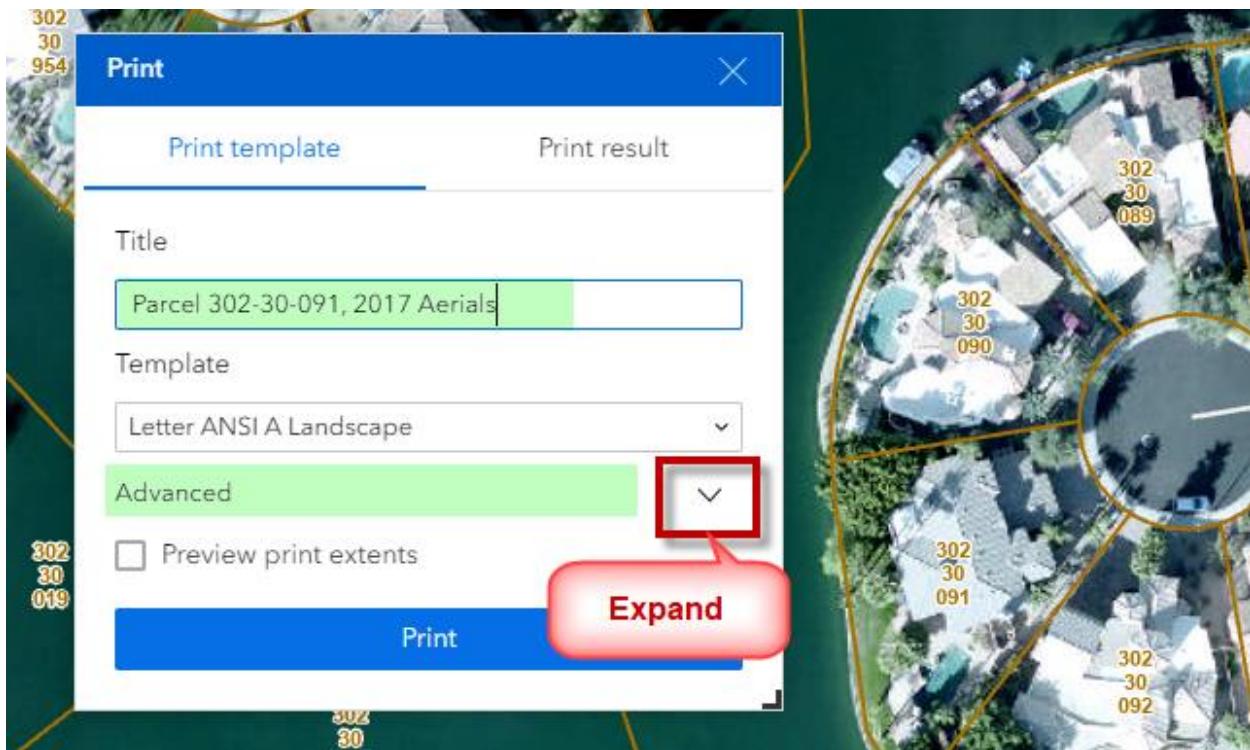
The default Print Template = A3 Landscape



First, change the default Print Template = **Letter ANSI A Landscape**



Next, add your Custom Map Title = **Parcel 302-30-091, 2017 Aerials**



Expand the **Advanced Options**.

Set Map Scale = **1000**

Your map will print at a Custom Map Scale of 1:1000

Author = Office of Enterprise Technology/GIS

Copyright = © 2023 Maricopa County

Check the option to include the map legend.

Check the option to include the north arrow.

Change the Scalebar unit to **Feet**.

Leave the Print Quality at **96 dpi**. Do not alter this!

**Print**

Print template Print result

Title  
Parcel 302-30-090, 2017 Aerials

Template  
Letter ANSI A Landscape

Advanced

Map printing extents

Current map extent

Current map scale

Set map scale  
1000

Layout options

Author  
Office of Enterprise Technology/GIS

Copyright  
© 2023 Maricopa County

Include legend

Include north arrow

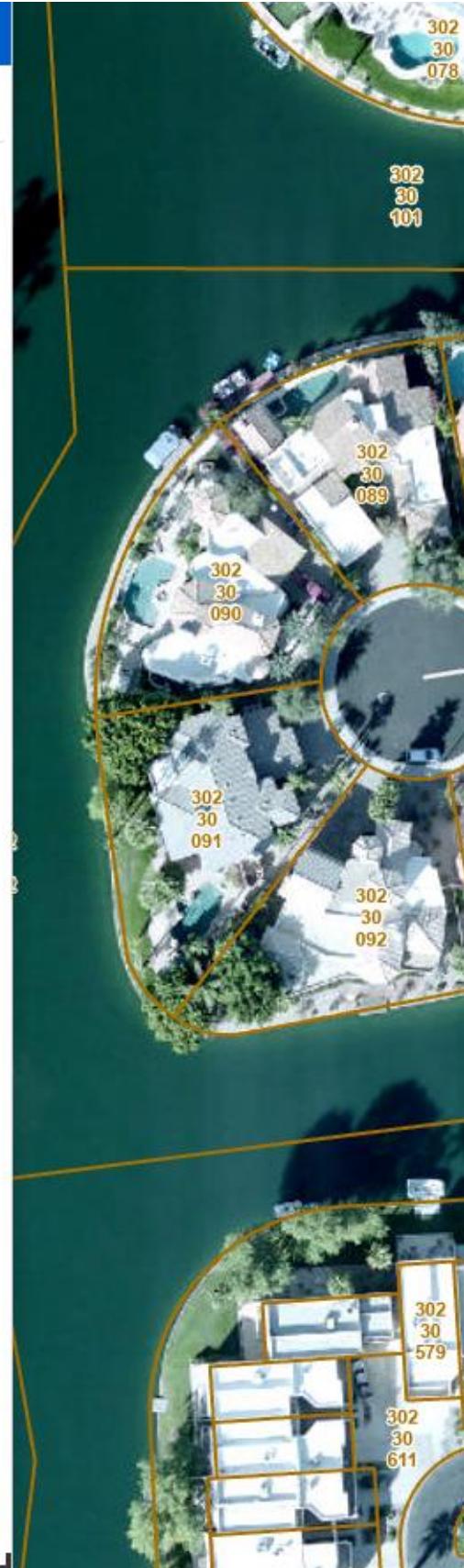
Scalebar unit  
Feet

Print quality  
96 DPI

Include attributes

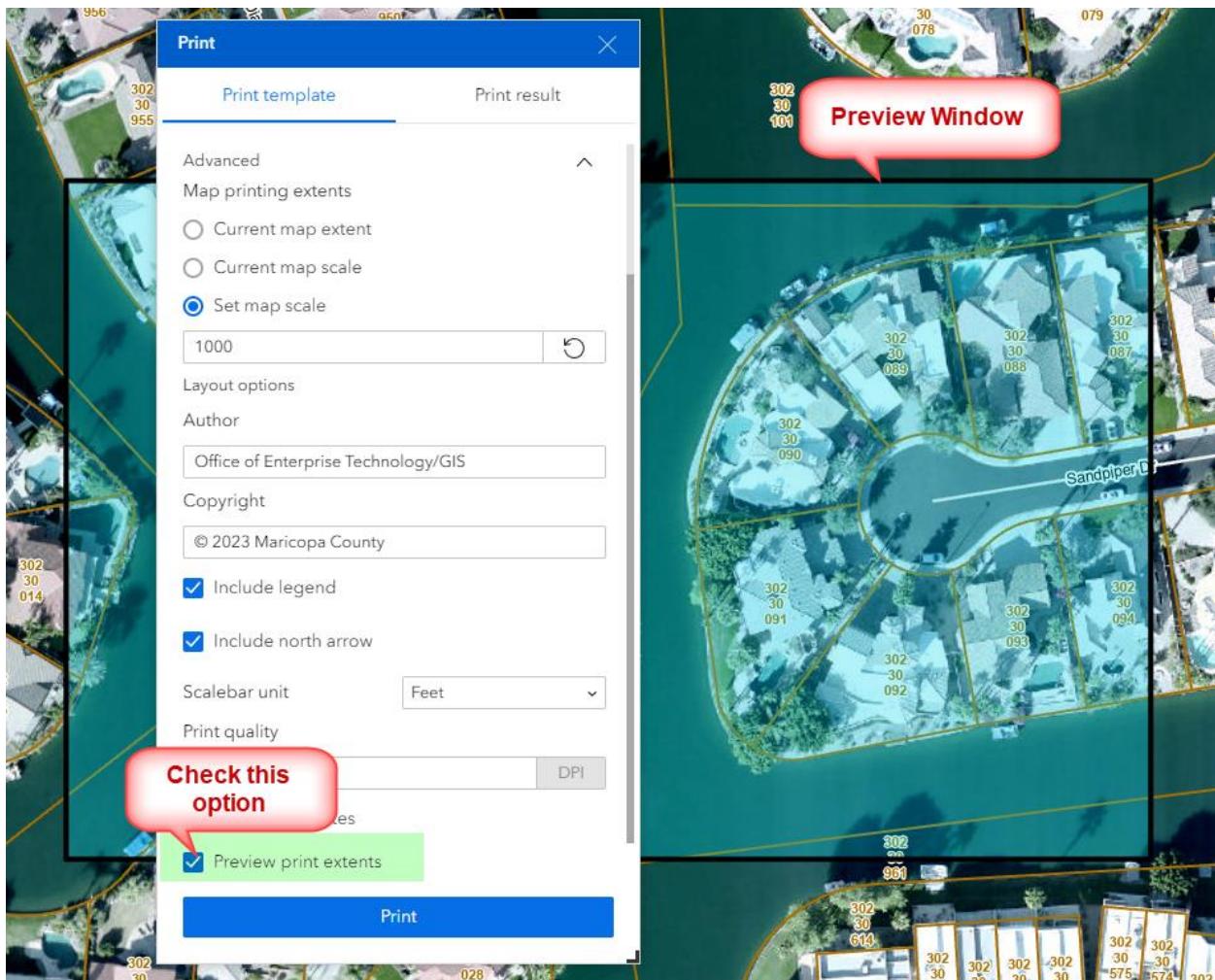
Preview print extents

**Print**



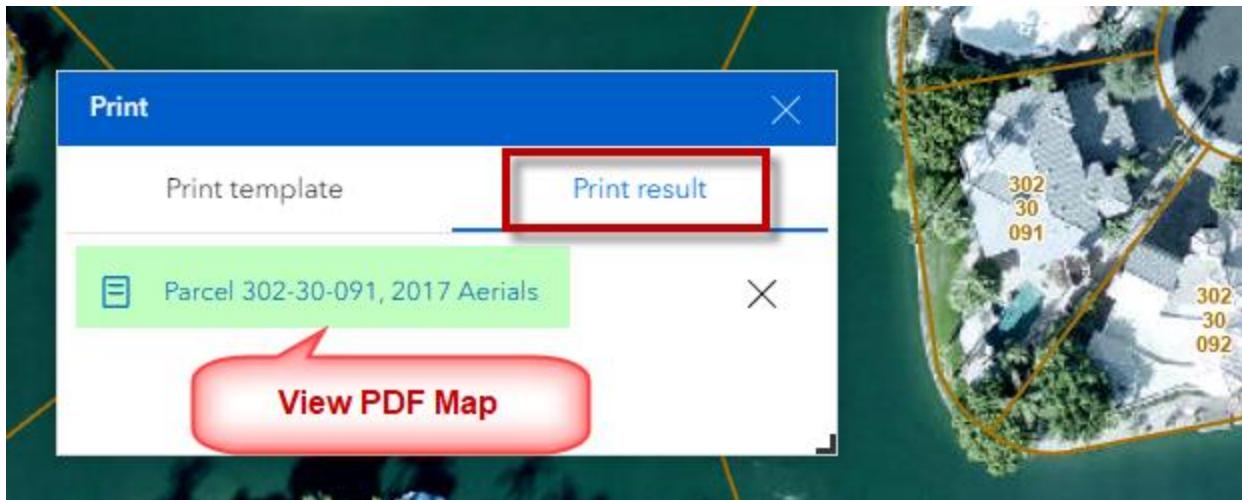
Check the option to **Preview print extents**.

A preview window with a black border will appear showing you the actual printing area.



Press **Print**

Open the **Print Result Tab** and view the PDF Map that got generated.

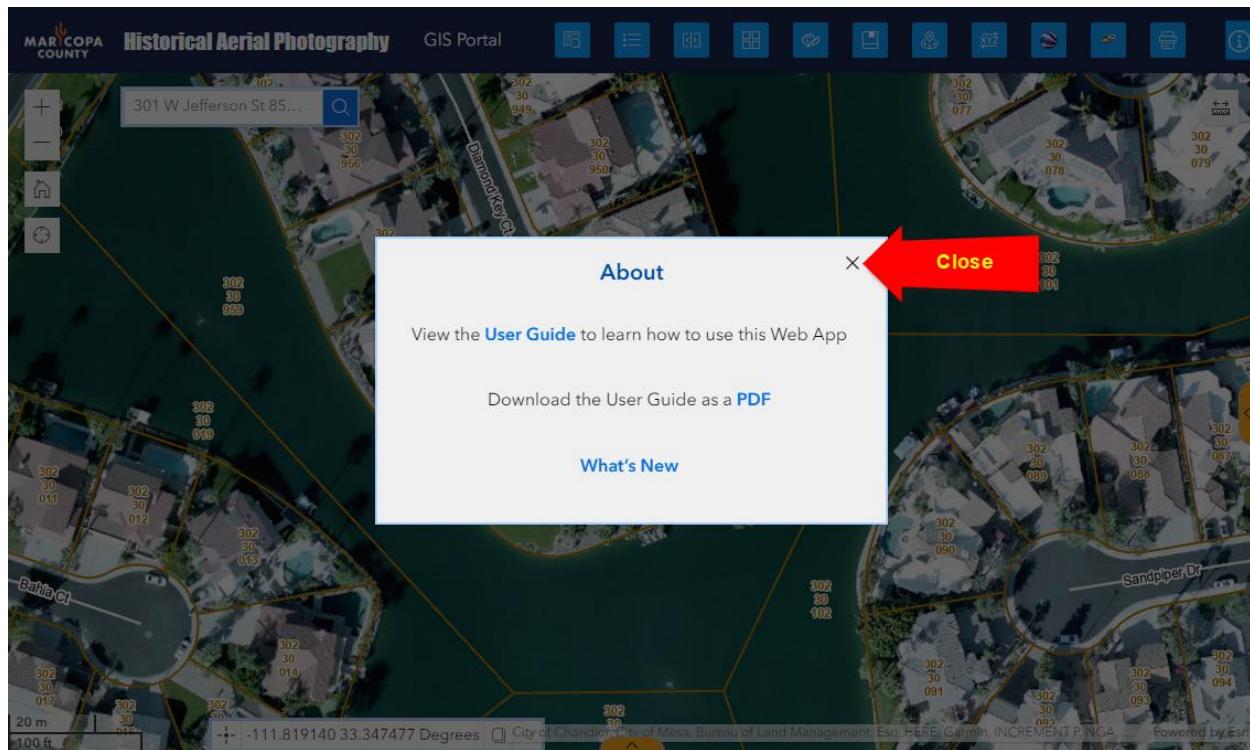


## About Widget

Open the About Widget.



This will open the **About Window** in the center of your screen.



It has links to view the User Guide as an HTML 5 Help System, download the entire User Guide as a single PDF and view What's New.

## Summary

The Maricopa County Historical Aerial Photography Web Application offers a simple interface to compare the latest Ortho Aerial Imagery with those taken one, two, five, ten years in the past dating all the way back to 1930.

In addition, this web application allows you to search and display the full Parcel Database comprising of more than 1.7 million parcels in Maricopa County.

There are embedded hyperlinks to every parcel to open the Maricopa County Assessor, Treasurer and Recorder web pages to gather more information.

After zooming to your area of interest, you can use the Google Maps widget to launch Google Street View or explore your world in 3D.

You can use the Pictometry Widget to view high-resolution oblique imagery of your study area.

You can generate presentation quality PDF Maps with a custom map title, map scale, map legend, north arrow adding author and copyright information.

The Web Application has been designed using the latest ArcGIS Experience Builder technology from ESRI.

Here are some quick tips:

You can have multiple widgets open at once. Open widgets are shown by orange icons. Closed widgets are shown with a blue icon.

Clicking on a blue widget icon opens it.

Clicking on an orange widget icon closes it.

Drag a rectangle with your mouse while holding down the **Shift Key** to quickly zoom to your area of interest. On a Tablet, you can pinch with two fingers to zoom in and out.

The easiest way to zoom to your area of interest is to enter the **Street Address** in the Search Tool.

Examples:

301 W JEFFERSON ST

1700 W WASHINGTON ST

1535 N SCOTTSDALE RD, 85288

If you do not have the exact house number, you could enter the nearest **Cross Street** separated by an “**&**” character.

Examples:

7th AVE & ELM ST  
15th AVE & VAN BUREN  
7TH AVE & CAMELBACK  
INDIAN SCHOOL & CENTRAL

You may also enter a **Parcel Number** in any format with or without dashes to zoom to it.

Examples:

211-67-062E  
112-19-038A  
112-02-143  
216-88-006  
302-30-091  
208-08-016B

Turn on the **Parcel layer** and click on any parcel to open a Pop-up window showing the embedded links.

Use the **Near Me Widget** to drop a point on the map and find the nearest Parcel, Subdivision, Zip Code and City.

Open and activate the **Swipe Widget** to compare the 2022 Aerials with past Aerials.

Always have the 2022 Aerials turned on. They would appear on the left half.

Turn on past Aerials one layer at a time. They would appear on the right half.

Expanding any Aerial Layer Group will show the sublayers. You can turn on the Footprint layer to get the exact flight date, image resolution and Tile Number.

Activate the **Google Pegman Tool** in Google Maps to explore the Street View and Photo Sphere images.

Turn on **Globe View** with the Satellite imagery in Google Maps to explore your world in 3D.

Hold down your **Control Key**.

Dragging the mouse vertically changes the **Tilt**.

Dragging the mouse horizontally changes the **Rotation**.

The **Query Widget** allows you to use an *Attribute Filter* alongside a *Spatial Filter*. Both are active by default. To avoid confusion, disable the Spatial Filter while applying an Attribute Filter. Blank out the Attribute Filter while applying a Spatial Filter. You will always get your desired results.

## Contact Us

Thank you for using our Historical Aerial Photography Web Application.

We welcome your feedback and comments!

Please email us:

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