

Geographic Information Systems Team

GIS Website Users Guide

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Administration Department

GENERAL NAVIGATION AND TOOLS:

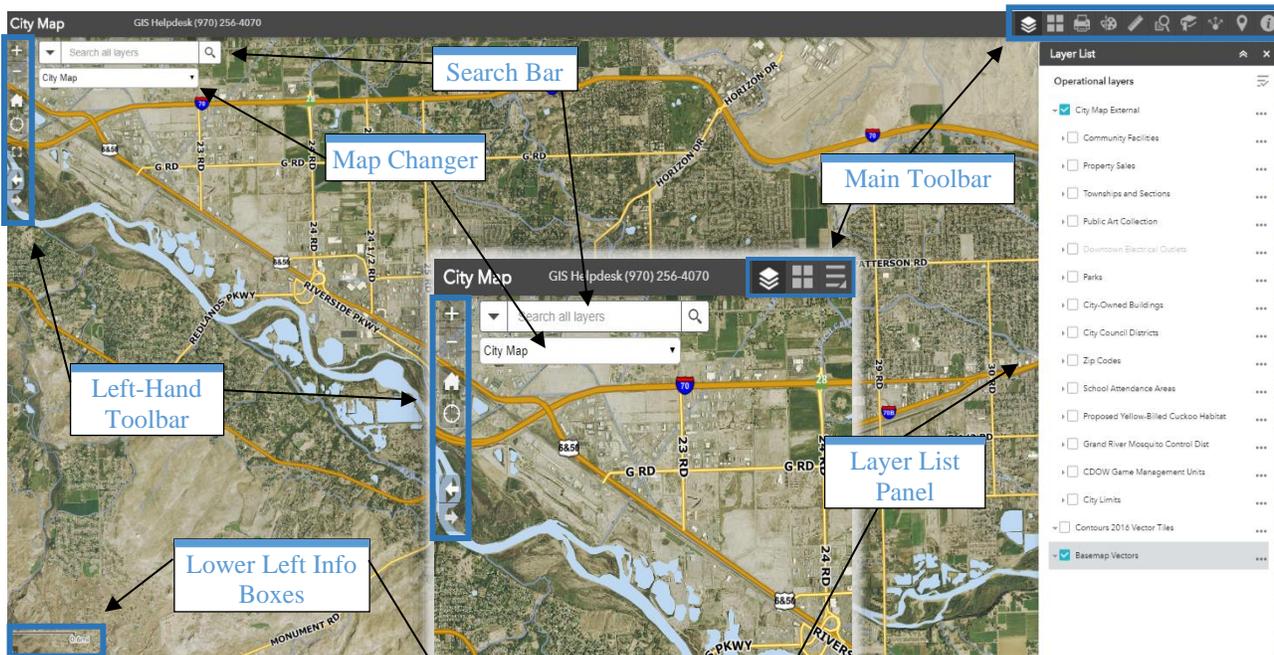


Figure 1: Desktop Version

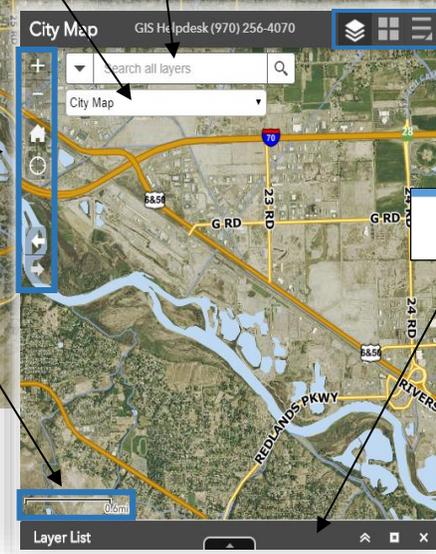


Figure 2: Mobile Version

As shown in Figure 1 and Figure 2 above, the map view changes depending on the device you are using – desktop computer, tablet, or smartphone. When the map view changes, certain map components change location, like the Layer List Panel and the Main Toolbar.

To pan and zoom using a desktop computer: use your left mouse button to click and drag around the map. There are a variety of tools on the Left-Hand Toolbar to help you navigate the map (described to the right). In addition to the Zoom in/Zoom out buttons on the Left-Hand Toolbar, you can also use the wheel on your mouse to zoom in and out.

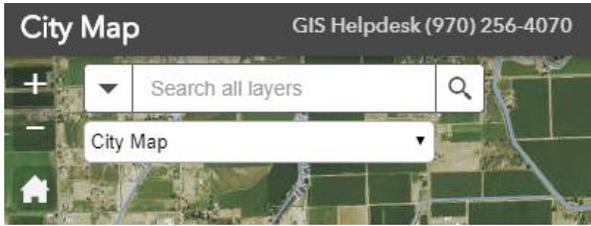
To pan and zoom on a mobile device: use one finger to drag around the map in a swiping motion. To zoom in and out, pinch two fingers inwards or drag two fingers outwards. The Left-Hand Toolbar behaves the same on desktop or mobile devices.

- Zoom in—*zooms in on the map*
- Zoom out—*zooms out on the map*
- Default extent—*zooms to the default extent of the map*
- My location—*shows your current location on the map*
- Full Screen—*makes the map viewer full screen on your device*
- Previous extent—*pages through your extents backwards*
- Next extent—*pages through your extents forwards*

Lower Left Info Box—Includes a scale bar and the coordinates of a selected point in Latitude and Longitude

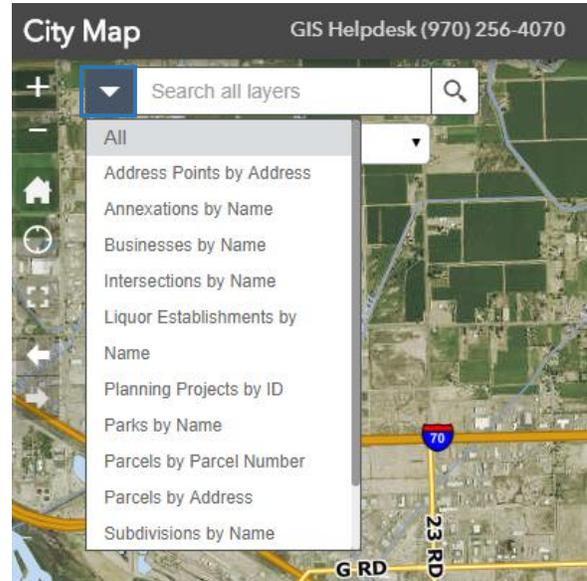


SEARCH BAR:

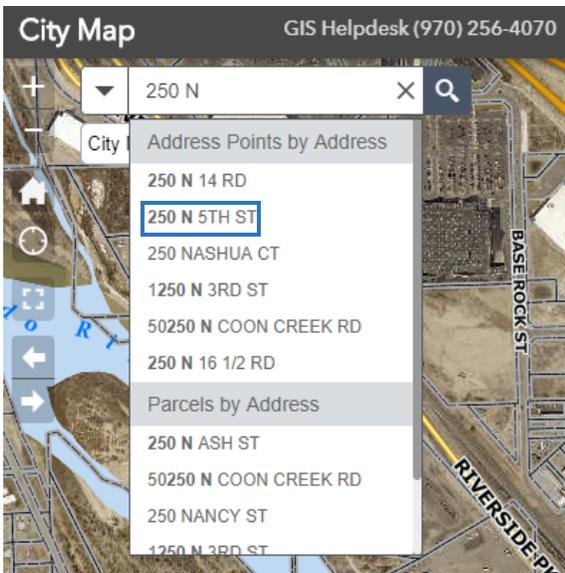


The Search Bar is located at the top left-hand corner of both the desktop and mobile versions of any map view (above). The Search Bar can be used to search addresses, subdivisions, parcels, businesses, and several other things.

To narrow down your search, click the drop down arrow to the left of the Search Bar, highlighted on the image to the right. The search options appear in the dropdown menu to filter your search with criteria, like ‘Name’, ‘Parcels by Address’, ‘Subdivisions by Name’, etc.



You do not have to type the full address for results to come up. For example, if you were trying to search for the location of City Hall using the address, 250 N 5th St, while leaving the dropdown search criteria under the default selection ‘All’, you would get the results below.



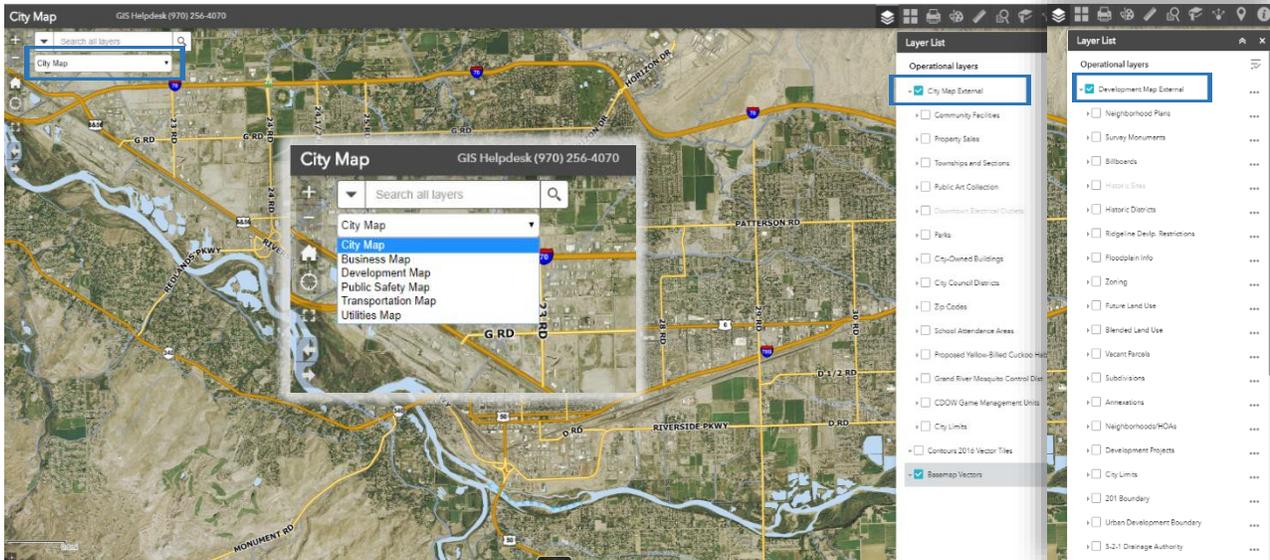
Notice how the full address had not been typed in the Search Bar, yet the correct address for City Hall appeared (highlighted on the left).

A greater number of search results appear based on your search when the search criteria is left to the default ‘All’, but the search may take longer to return results. The results are grouped by the available search by criteria mentioned above.

NOTE: The results for a search will be the same no matter which map you are viewing (City Map, Development, Public Safety, etc.).

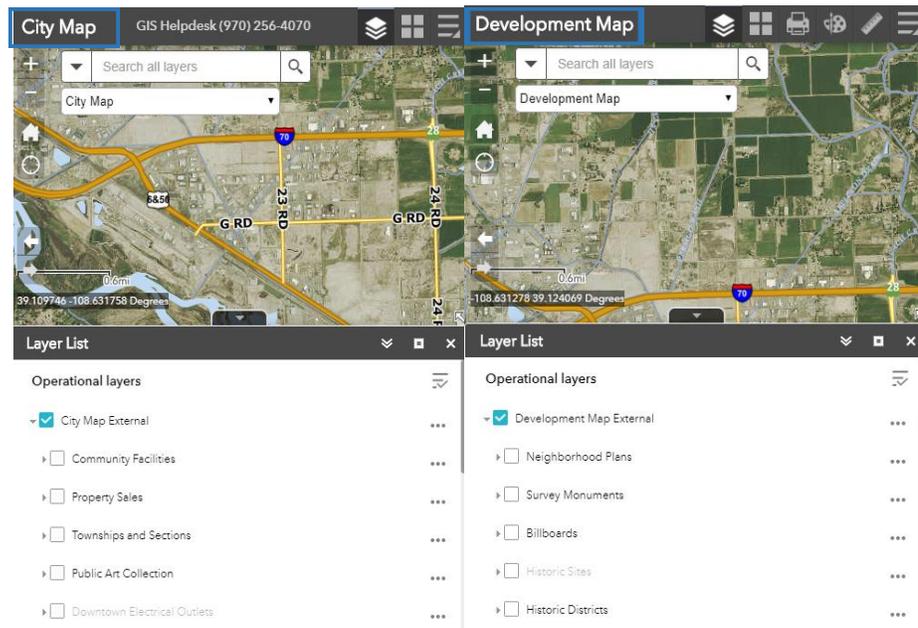
SWITCHING MAPS:

Located just under the Search Bar, in the upper left-hand corner of the desktop and mobile map views is the Switch Maps menu. To access different maps, simply click on the Switch maps bar, highlighted below, and a list of available maps will appear. There is City Map, Business Map, Development Map, Public Safety Map, Transportation Map, and Utilities Map.



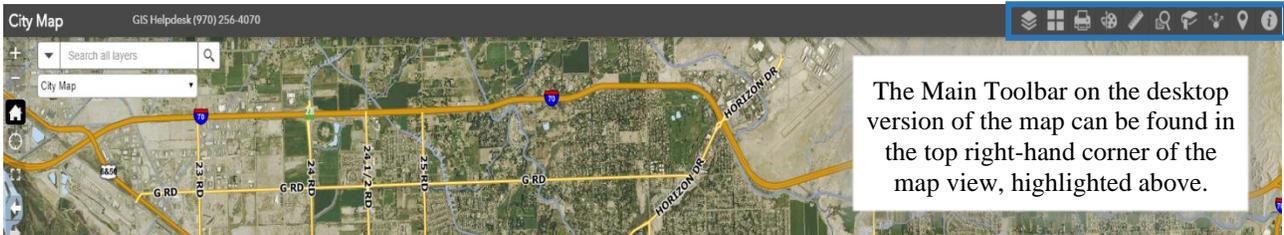
Desktop Version

Each of the maps contain different layers that can be toggled on and off. The images above and to the right both compare layer lists from City Map and Development Map. On the mobile version of map view (right), the Layer List panel appears on the bottom of the screen. Switching maps and turning on and off layers behaves the same on desktop and mobile versions of the map.

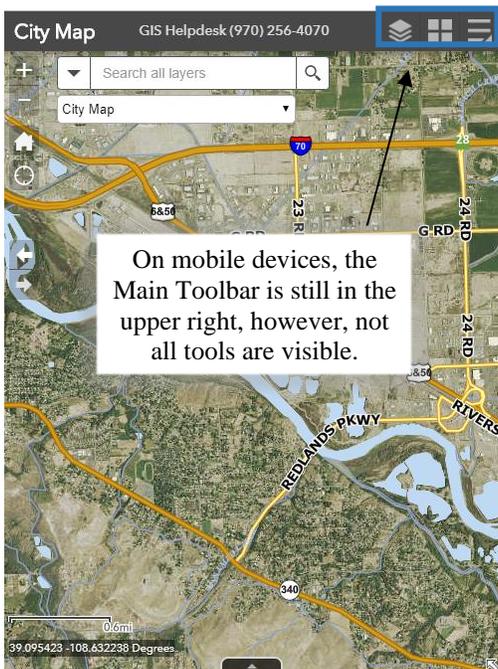


Mobile Version

MAIN TOOLBAR:



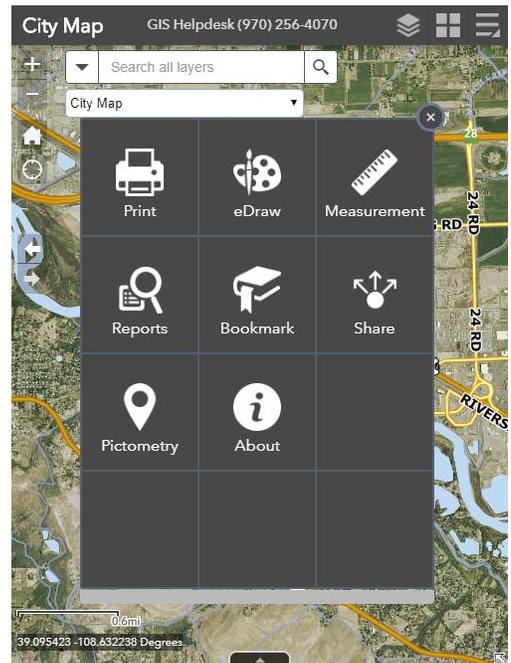
Desktop Version



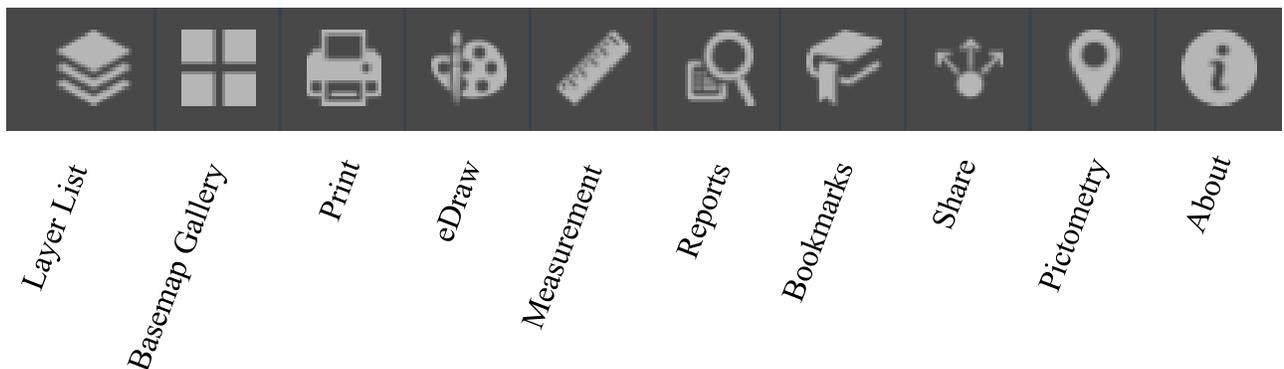
Mobile Version



Tap the hamburger icon highlighted above on your mobile device to open the menu shown on the right. This allows you to select any of the tools found on the desktop version's Main Toolbar.



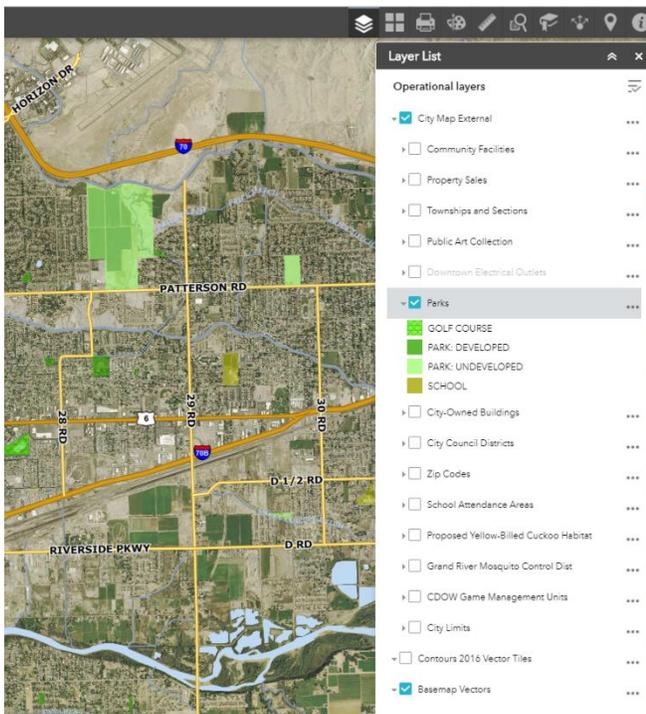
Main Toolbar Buttons



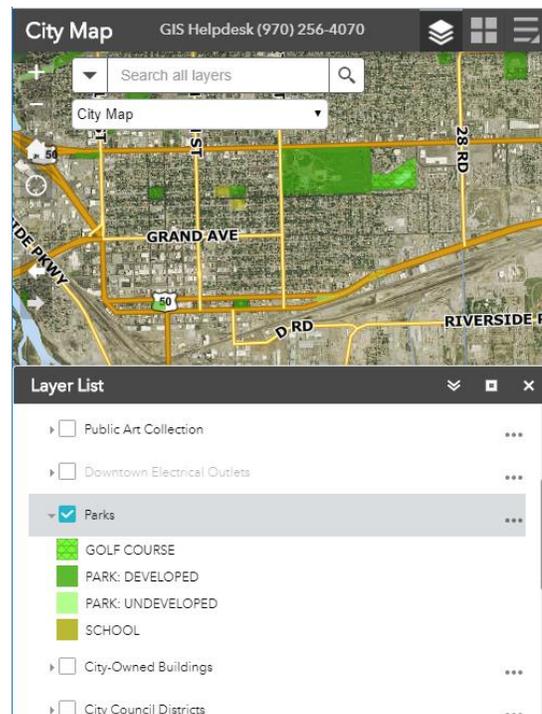
Layer List



- Located on the right hand side of the screen on desktop map views, and on the bottom of the screen on mobile map views.
- Allows you to turn on layers related to the map you have selected. To turn on a layer, simply check the checkbox to the left of the layer title (See Below). The layer's legend will expand below the layer title. In this example: Parks layer on City Map.



Desktop Version



Mobile Version

NOTE: The following descriptions of the Main Toolbar buttons will only include images of desktop map views. All tool menus on mobile devices will appear as it does in the above description for Layer List - on the bottom half of the screen.

Basemap Gallery



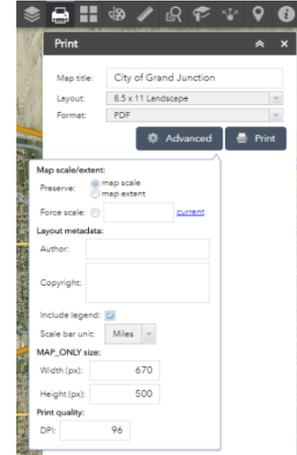
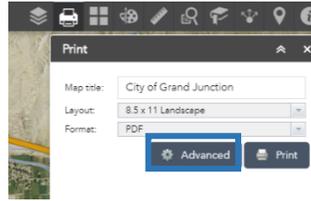
- This menu allows you to switch between different basemaps, such as airphotos by year, hillshade, and USGS Topography map.
- You also have the option to turn off basemap images with the 'Airphotos Off' button, highlighted on the right.



Print



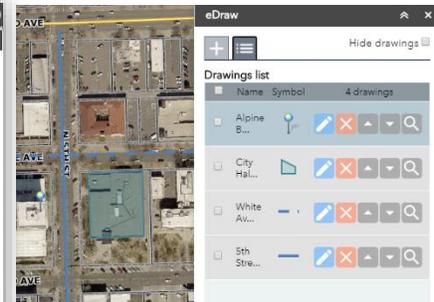
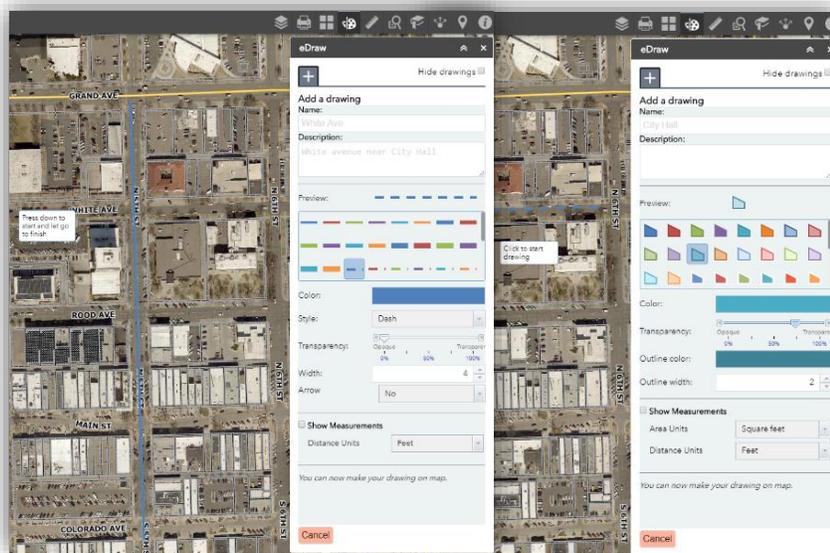
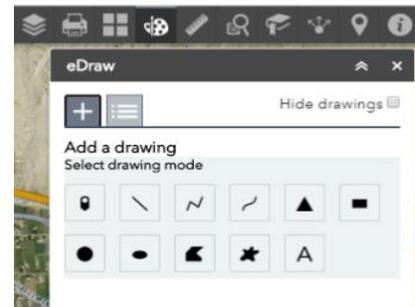
- The Print function allows you to save the visible map view to a variety of formats (it does not actually send a job to your printer).
- The 'Layout' dropdown menu changes the page size, and the 'Format' dropdown changes the file type, such as PDF, JPG, GIF, etc.
- The 'Advanced' button allows you to edit portions of the layout of the map, like adding a title, legend, and scale bar.



eDraw



- There are 11 different drawing tools you can use to illustrate on the map, shown on the right, listed from left to right: Point, Line, Polyline, Freehand Polyline, Triangle, Rectangle, Circle, Ellipse, Polygon, Freehand Polygon, and Text
- Each drawing mode has properties to set that include different colors, line widths, line styles, transparency levels, and measurement units, etc.
- You can add names and descriptions to each drawing you make, and you can adjust the units of measurement for your shapes and show them on the map.

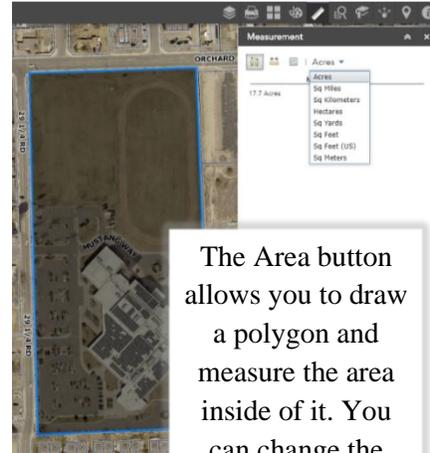
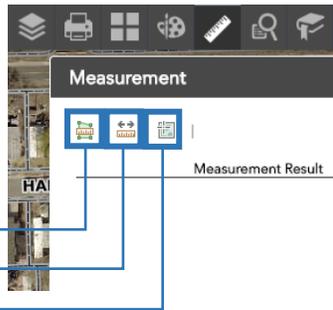


In the Drawings List panel, shown above, you can edit or delete existing drawings.

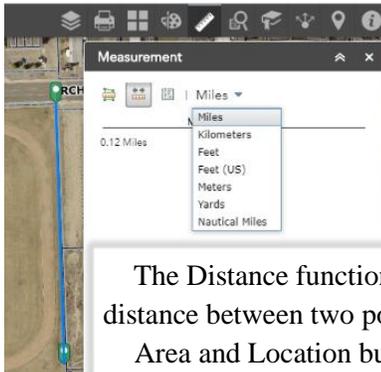
Measurement



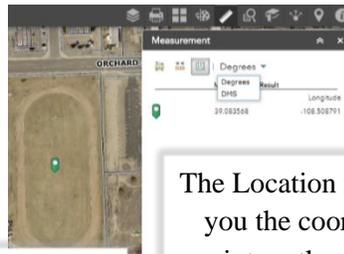
- The Measurement Panel has 3 main types of measurements:
 - o Area
 - o Distance
 - o Location



The Area button allows you to draw a polygon and measure the area inside of it. You can change the units of measurement either before or after you have drawn the polygon.



The Distance function measures the distance between two points. As with the Area and Location buttons, you can change the unit of measurement.



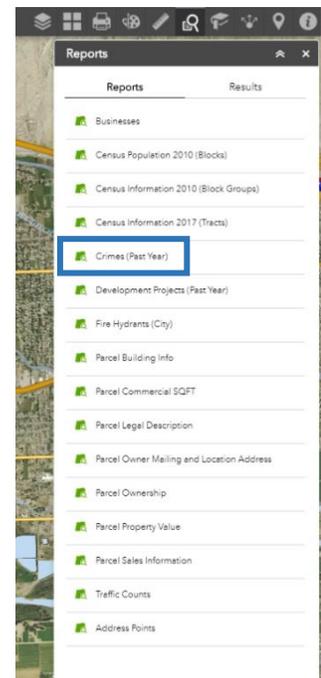
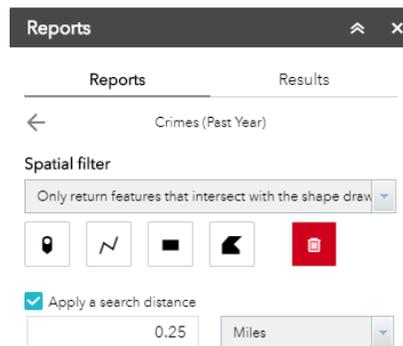
The Location function gives you the coordinates of a point on the map in either Decimal Degrees or Degrees Minutes Seconds.

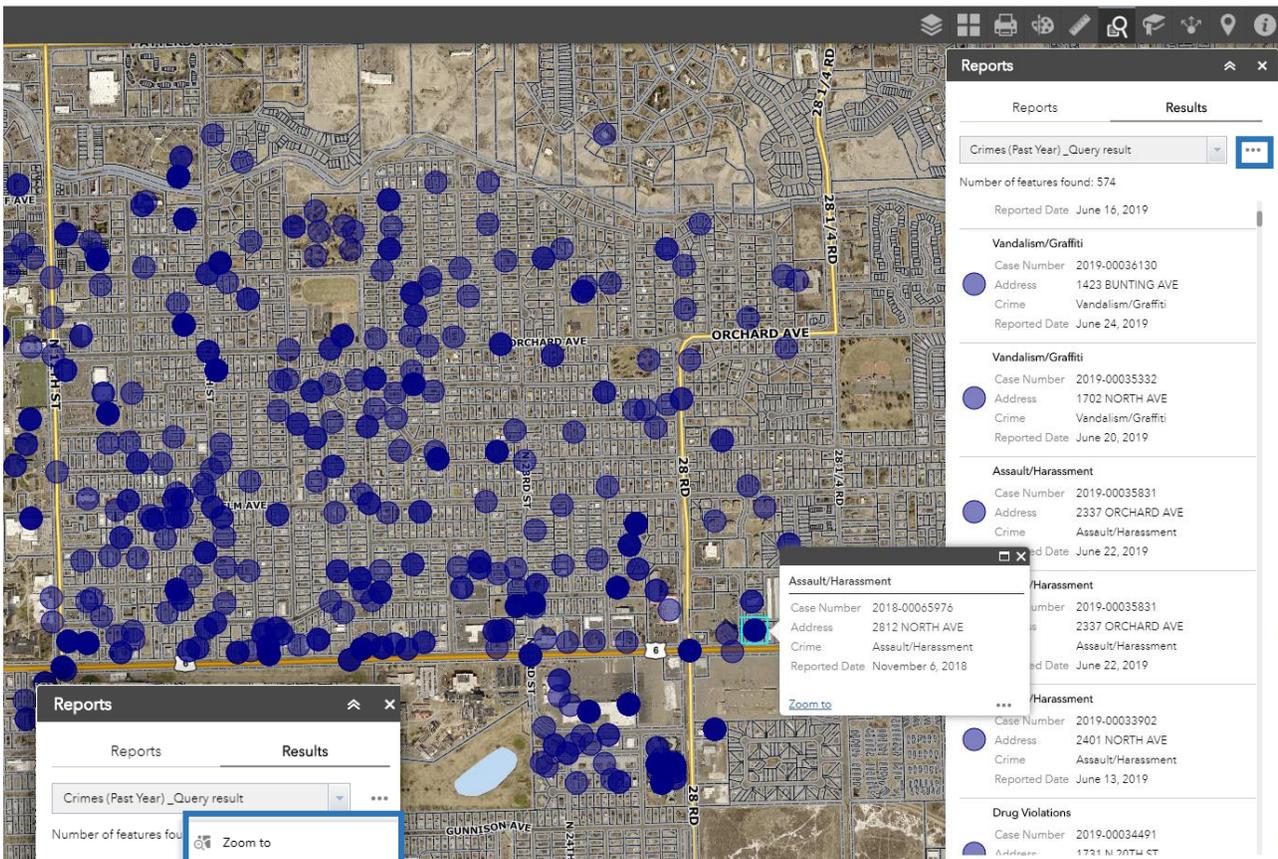
NOTE: To finish a measurement, simply double click the left mouse button anywhere on the map. To deselect a measurement tool and pan around the map you must click the same measurement button you had selected (i.e. if you were measuring area, click the area button again).

Reports



- The Reports function will generate summaries of a layer based on the spatial relationship with a drawn area or with another layer.
- First, select the layer that you want to run a report on from the layer list in the Reports window.
- Once a layer is chosen (in this example, Crimes, shown to the right), the Spatial Filter options appear giving you the option to draw a custom area, or search based on the data in another layer. A search distance (buffer) may be applied in various units.



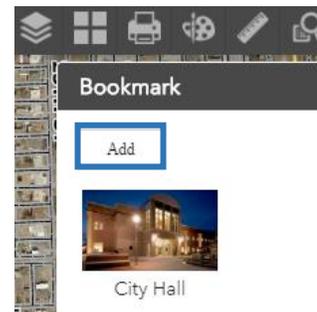


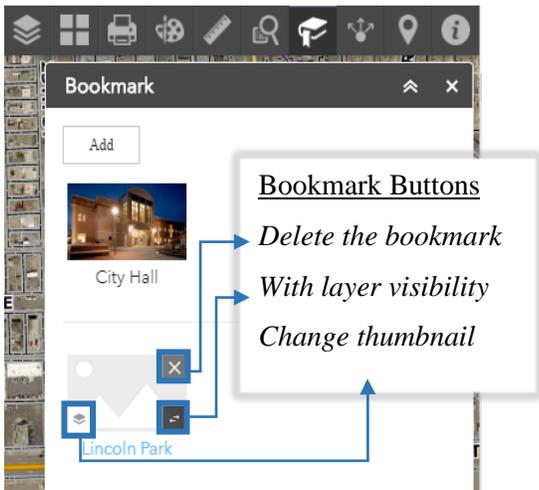
- The results will appear in the Reports window as a list, but will also display as features on the map
- To manipulate and download your report results, simply click the ellipses in the top right corner of the list (highlighted above), and a small menu will appear with options to move around the values in your report, remove the results, and to export the report to a variety of formats (highlighted on the left).

Bookmarks



- Bookmarks save the extent and location of a particular spot for you to easily return to on the map, City Hall is the default bookmark.
- To add a bookmark, zoom in to a desired location and click the 'Add' button, highlighted to the right.



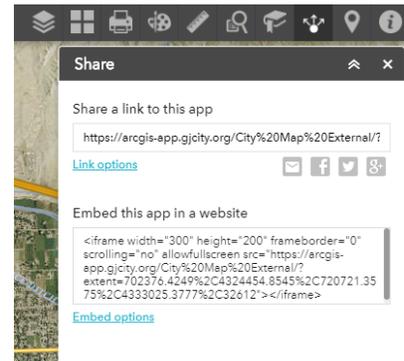


- After a bookmark has been added, you have the option to delete it, change the thumbnail, and name it. For example, I named my bookmark 'Lincoln Park' for easy reference
- *With layer visibility* is a useful tool for bookmarks because, in addition to preserving location and extent, it maintains any layers you have turned on in your map view (even if those layers are later turned off).

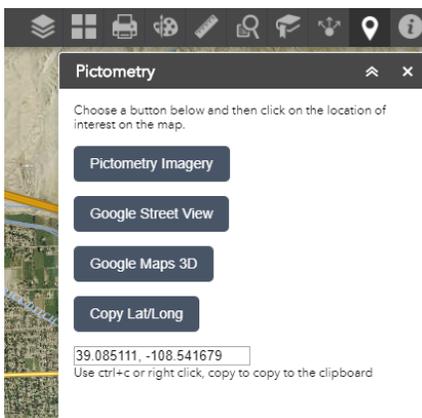
Share



- The Share function allows you to share your map via a URL with various options, or embed the map into a website with an iframe.



Pictometry



- Pictometry is a tool that allows you to view a location on the map with various imagery.
- First, select from three different options of imagery: Pictometry, Google Street View, or Google Maps 3D, and then click a point on the map.
- A new tab will open with the selected imagery type of the chosen location.
- The 'Copy Lat/Long' button retrieves the coordinates from a clicked location in the map.

Information



- This button opens the About window which has contact information and a link to the City of Grand Junction's website.

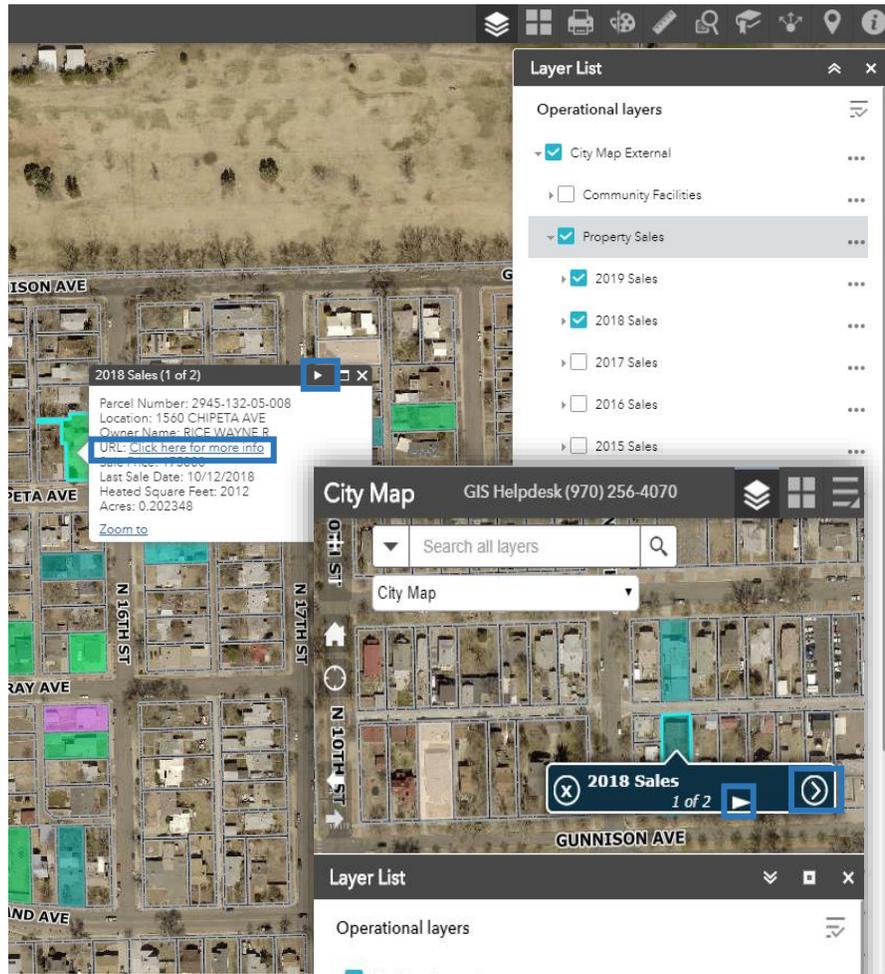


TOOLTIPS:

Tooltips are little menus that appear when you select a feature in the map. In the example below, the Property Sales layer is turned on, and a feature from that layer was selected.

The tooltip menus look different on the desktop map view and the mobile map view. On desktop (shown on the right), a list of information appears that you can page through using the arrow in the upper right corner of the menu.

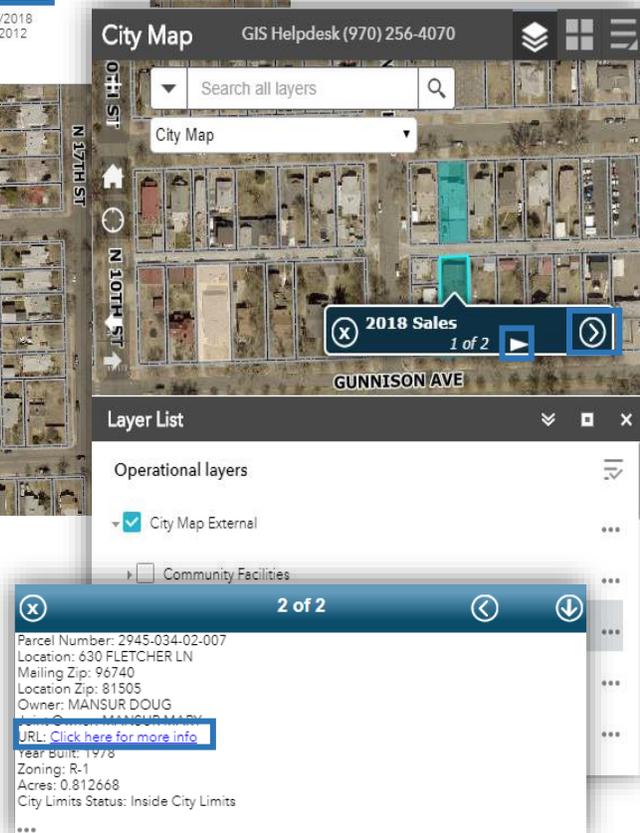
On the mobile version (shown below), a smaller menu appears with little information. To page through the results for that feature, click on the bottom arrow next to the '1 of 2' text. To access information about that feature—like the desktop version—click the arrow on the far right side of the menu. Both arrows are highlighted on the right.



Desktop Version

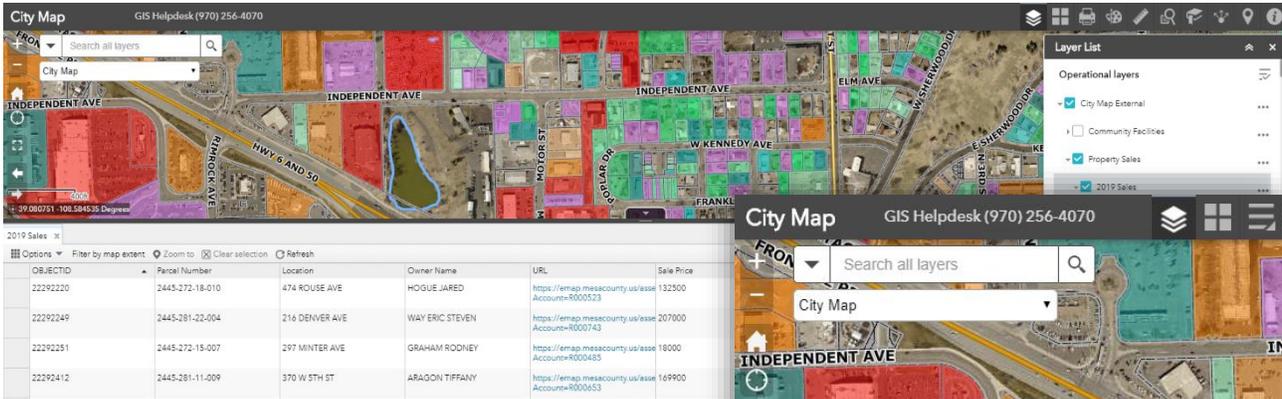
NOTE: A URL in the tooltip will open a new tab with either a website or document with more information about the selected feature.

For Parcels, 'URL: Click here for more info' takes you to parcel information on the Mesa County Assessors website.



Mobile Version

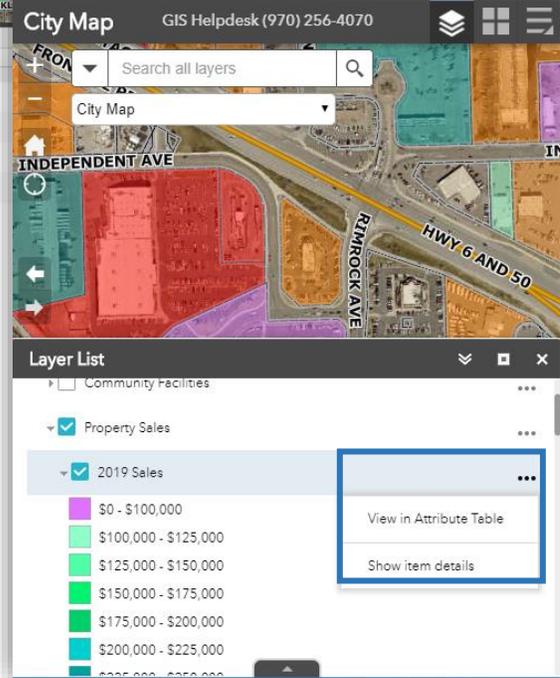
TABLE VIEWER:



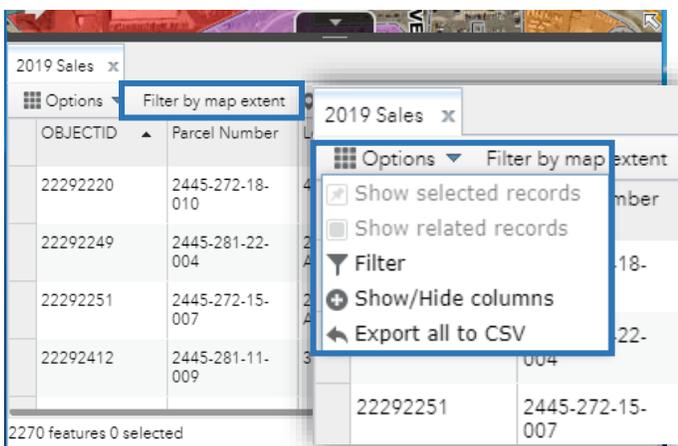
Desktop Version

The table viewer function on map view displays attributes from a particular layer in a table at the bottom of both the desktop and mobile versions of the map.

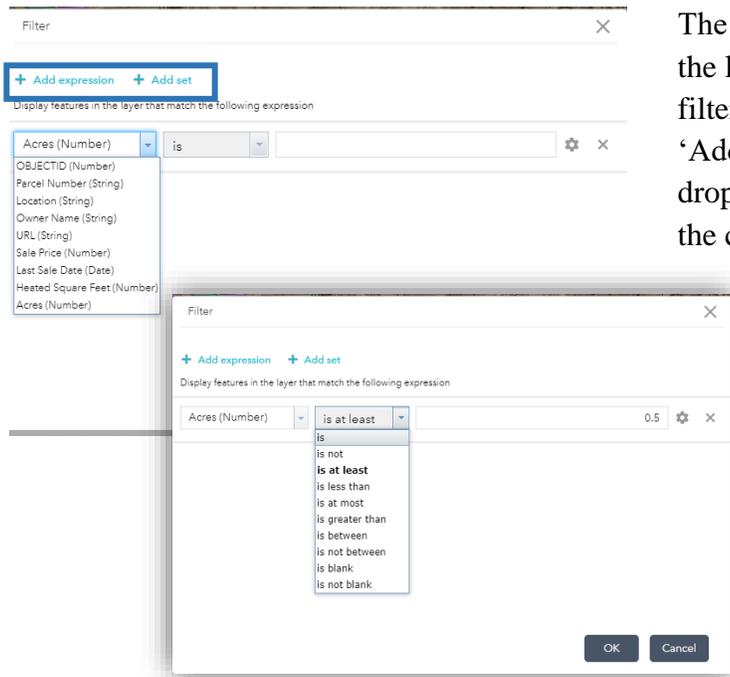
To access table viewer, click on the ellipses on the right side of a layer, and select ‘View in Attribute Table’, highlighted on the right. The attribute table provides a list of every feature in that layer. By default, the ‘Filter by map extent’ is activated and the table will only contain features visible in the current map view. Deselect this to view all records in the table. To zoom the map to a particular record, either double click that row in the table, or click on the grey box to the left of that row and select the button ‘Zoom to.’



Mobile Version



The ‘Options’ menu, located in the upper left corner of the table viewer (highlighted on the left) features other functions like, *Filter*, *Show/Hide columns*, and *Export all to CSV*.



The ‘Filter’ feature opens the menu shown on the left. This allows you to build a query to filter the table based on its fields. First, click ‘Add expression’. Choose the field from the dropdown list, choose the operator, and enter the condition to be met.

Click ‘Ok’ at the bottom execute the query. This can be useful if you wanted to export the table to a .CSV file, but only wanted features that had certain qualities to be in the output table.

NOTE: The ‘Add set’ button allows you to string together expressions to further narrow down results.

CONTACTS:

GIS Help Line
(970) 256-4070

M-F 8:00 AM to 5:00 PM Mountain time