Street Closures & Detour Mapper User Guide

(VIEWER VERSION)

(updated 9/17/2015)

Contents

What is Street Closures & Detour Mapper?

Street Closures & Detour Mapper is a digital interactive online map that a user can use to view information about permits and other street obstructions including PWU Utility Operation's road closures, obstruction and excavation permit locations, and events planned by the Police/Fire Dept. It requires no software, and can be accessed anywhere on a computer, mobile phone, or tablet inside or outside the City of Duluth network with an internet connection. Users can pan, zoom in/out, identify features, print, toggle on/off layers. Authorized users can draw areas around new permit locations associated with the TRAKiT database, police events, and Garfield utility operation's street. They can also draw the detour lines associated with each street closure. Users need a username and password to login to use the application.

Additional layers are searchable including active (2015) and 2016 Engineering Progress Zone areas, ALL permits (expired, issued, and approved) and detours.

Basemaps included: 2013 and 1939 aerial imagery, Bing 2013 aerials and roads, and LiDAR-derived hillshade

St. Louis Country layers included: Cadastral layers, Administrative Boundaries, Survey points,

Versions of Webmaps in ArcGIS Online:
   Engineering Front Office:
   - http://duluthmn.maps.arcgis.com/home/webmap/viewer.html?webmap=d7adce19e801448d9 0370df790ee74dc (for those who just want to view & search)

   Garfield Utility Operations:
   - http://duluthmn.maps.arcgis.com/home/webmap/viewer.html?webmap=835e4eb0326d42c0a0 a3dce8a48d0c13 (for those who just want to view & search)

   Police:
   - http://duluthmn.maps.arcgis.com/home/webmap/viewer.html?webmap=19e73d1a365c451eb4 0227b1227d75df (for those who just want to view & search)

What Layers are Displayed?

Duluth Truck Routes: displays highlighted City of Duluth roads classified as truck routes.

DTA Bus Routes: displays Duluth Transit Authority bus routes through the City of Duluth.

2016 Proposed Construction Areas: displays Engineering Division's construction points for future 2016 project areas; these are the same areas as seen in the "Progress Zones" webmap. The pop-up window will shows the project number, title, text description, status, start and completion date, whether any access or detour details are available, project contact name, phone number, and email, type of project, jurisdiction of construction, and any additional links to the projects public document, images, detour maps, or jurisdiction URLs. Many field may not have information since these are future projects.

APPROVED & ISSUED Obstruction & Excavation Permits (with TRAKiT attribute pop-up): displays active and issued obstruction or excavation permit locations. The pop-up window shows permit number, date when the shape was drawn and last edited by Front Office staff, permit type, square footage of the permit area, dates of when the permit was applied, approved, issued, approved, finaled; when the permit will expire or the end date of the permit; status, a text description; contractor name, phone number, and email; and any additional text notes about the permit and its location.

APPROVED (NOT YET ISSUED) Obstruction & Excavation Permits (with TRAKiT attribute pop-up): displays only approved obstruction or excavation permit locations that are not yet issued. The pop-up window shows permit number; date when the shape was drawn and last edited by Front Office staff, permit type; square footage of the permit area; dates of when the permit was applied, approved, issued, approved, finaled; when the permit will expire or the end date of the permit; status, a text description; contractor name, phone number, and email; and any additional text notes about the permit and its location.

EXPIRED Obstruction & Excavation Permits (with TRAKiT attribute pop-up): displays all obstruction and excavation permits with the EXPIRED date past today's date in the TRAKiT database. It shows permit number, dates when permit was applied, approved, issued, finaled, or expired. It shows the permit type (obstruction or excavation permit), status, site address, text description, and additional text notes.

SEARCHABLE TIME-ENABLED Street Obstructions & Detours (no TRAKiT pop-up): The same information as the layer *"Street Obstructions & Street Detours"* (below) except these layers are searchable by defining the time frame for displaying the street obstructions and detours.

Both "SEARCHABLE Street Obstructions" and "SEARCHABLE Street Detours": displays police events, Garfield Utility excavation and obstruction permits, Operations closures, and their associated street detours. Polygons (i.e., area shapes) show the estimated obstruction area. Lines show street detour routes for north-, south, east, or west-bound routes with direction arrow.

> *Active Obstructions & Detours:* displays all street obstructions and associated detours that are active, meaning that they are currently obstructing the street.

> *Upcoming Obstructions & Detours:* displays all street obstructions and associated detours that are not yet ISSUED, but have been approved. Obstruction and Excavation permits are only applied for on the day of obstruction and/or excavation.

> *Expired Obstructions & Detours:* displays all street obstructions and associated detours that were active and are no longer obstructing the street. These areas can be used to identify possible street repairs or restoration areas that are on-going.

2015 Progress Zones: Construction Permit Points: displays Engineering Division's construction points, which are the same areas as seen in the "Progress Zones" webmap. The pop-up window will shows the project number, title, text description, status, start and completion date, whether any access or detour details are available, project contact name, phone number, and email, type of project, jurisdiction of construction, and any additional links to the projects public document, images, detour maps, or jurisdiction URLs.

2015 Progress Zones: Construction Area Polygons: displays Engineering Division's construction shapes (i.e., polygons), which are the same areas as seen in the "Progress Zones" webmap's point layer "Progress Zones: Construction Permit Points. There is no pop-up window associated with this layer since it is the same as the point layer.

Pavement Patch Restoration Areas: displays patch locations used by the Utility Operations Division in the Public Works and Utility Department for the City of Duluth, MN. These sites are updated as restoration sites are improved or updated.

St. Louis County Administrative Boundaries: layer shows administrative boundaries for county, municipality, communities, school districts, ZIP codes, National Park, BWCAW, forests, reservation, WLSSD (Western Lake Superior Sanitary District), Congressional & County Commissioner Districts, annnd Census.

St. Louis County Cadastral: Cadastral layers for general purposes including survey control points, lot labels and boundaries, parcel labels and boundaries, townships, sections, quarters, quarter-quarters, lakes, right-of-ways, subdivision plats, tax parcels, MN Power lease sites, St. Louis county boundary, and community boundaries.

St. Louis County LiDAR 1m Hillshade: a basemap image representing digital hillshade derived from Light Detection and Ranging (LiDAR) technology and published by St. Louis County.

St. Louis County2014 Aerial (Pictometry): Image service of the 2013 Pictometry, published by St. Louis County.

St. Louis County 1939 Aerial: This is a phased project to provide 1939 aerial imagery for St. Louis County. First phase delivered approximately 33 township-sized areas in late 2013. Additional areas of 35-40 townships to be completed in phases. Not all of St. Louis County is represented in the 1939-40 imagery.
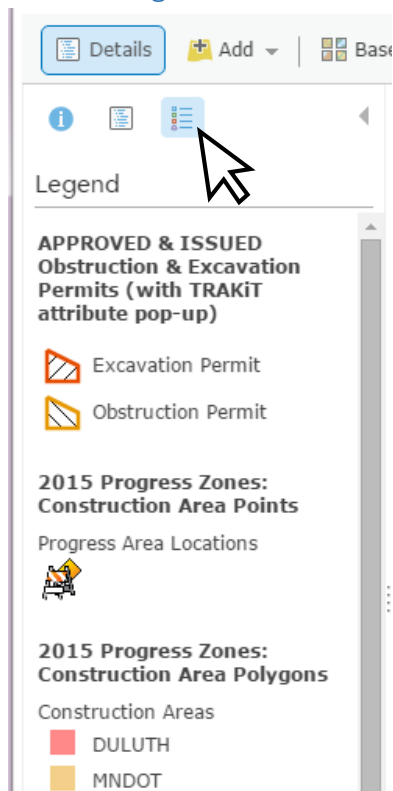
Login

- Go to the website URL you were provided or to the Duluth ArcGIS Online website: www.arcgis.com →
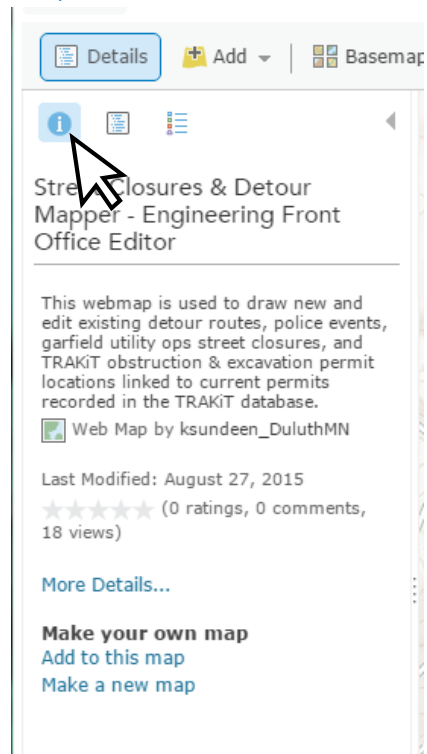 Sign In in the upper right corner.
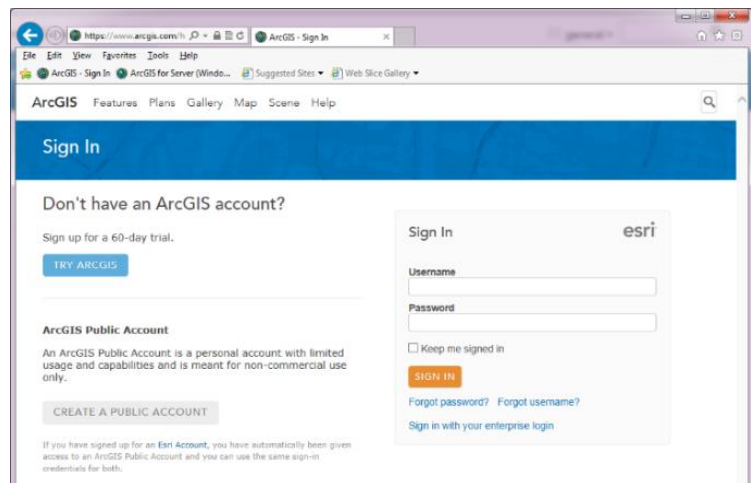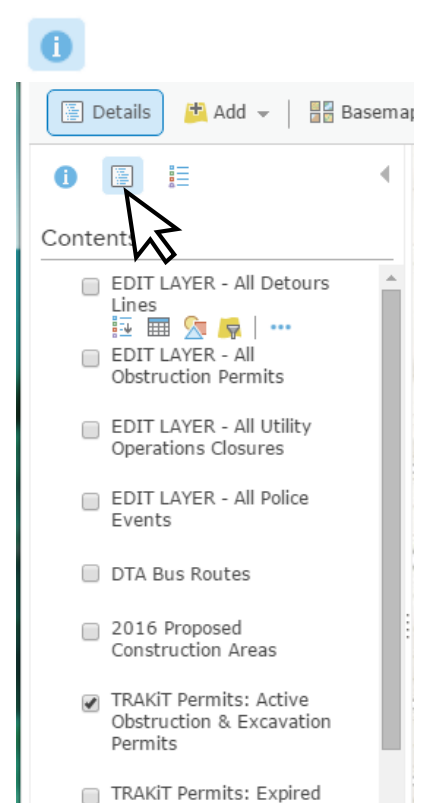
Basic References on "Street Closures & Detour Mapper"
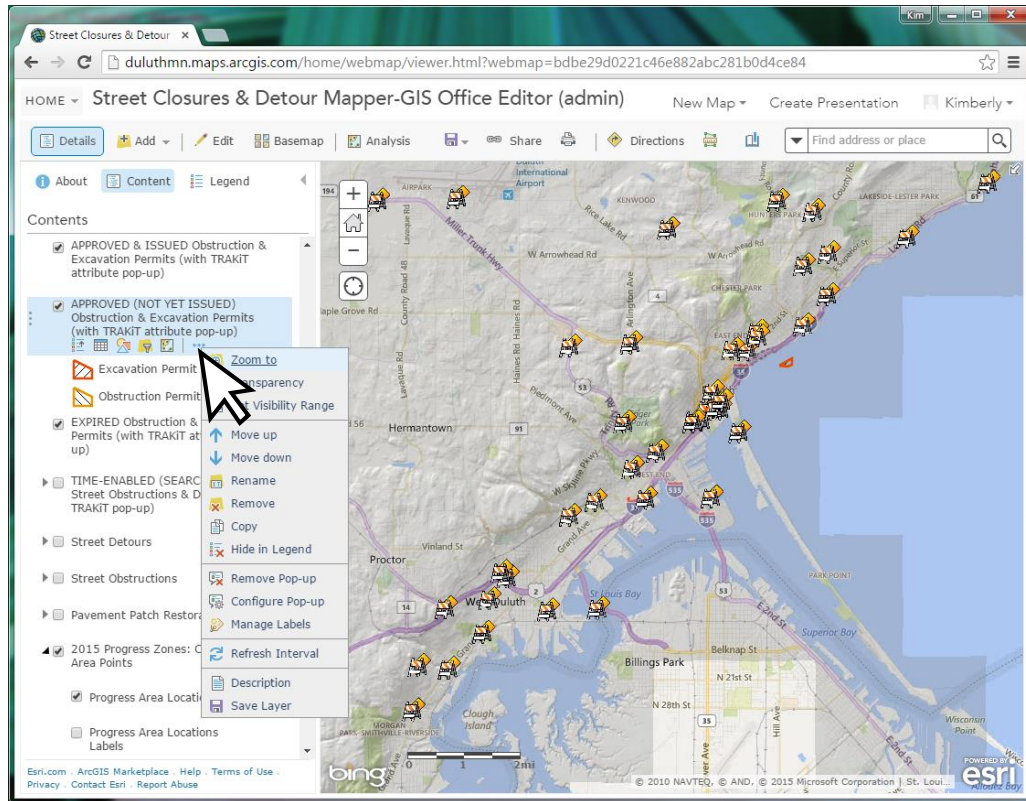
Details: Legend

Details: Show Contents of Map

Details: About this Map

Zooming In/Out

Zoom In: *You can also use the mouse scroll button and scroll **DOWN***

Zoom Out: *You can also use the mouse scroll button and scroll **UP***

Zoom to Home Extent. *This is the default zoom level.*

Zoom to your physical Location. You will need to allow the map to track you location.

Pan

- Use your cursor tool to move around the map. Hold down left-click mouse button and move mouse to move the map.

Change Basemaps

- Click on the grid icon and then click on any of the other basemaps. The background image will change immediately.
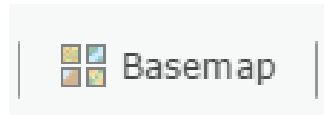
Share Your Web Map

- If you want to send a link of the map to yourself, or others, you can share this map. Any map you share however will still require an authorized username and password.
- You can send a shortened version of the webmap such as http://arcg.is/1L71KQR to text or email
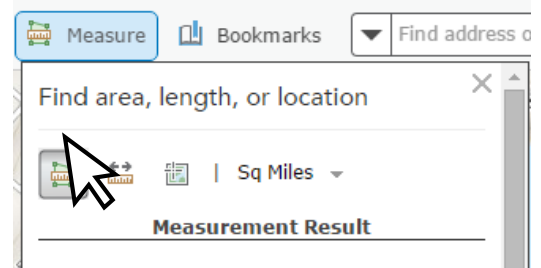
Printing from Permit Mapper
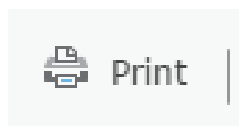
1. Center your map how you want it to show on your printout.
2. Click the "Print" button to get a JPEG image of your map with a title, description, and legend.
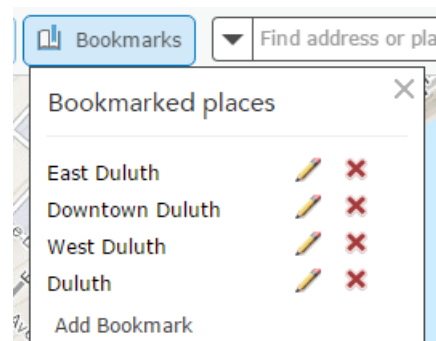
Measure

- Measure area & distances in different units. Change the units under the arrow next to the units
- Click on the "Measure" icon for:
  - Area
  - Distance

Zoom to Bookmarked Extents

- Click on one of the bookmarked places to zoom to that extent.

Identify

1. Use your mouse cursor to left-click any map location to see detailed information about a particular feature
2. If there are 2+ overlapping layers, then you will see in the pop-up window "(1 of 2)". Click the tiny white error to view the different layers
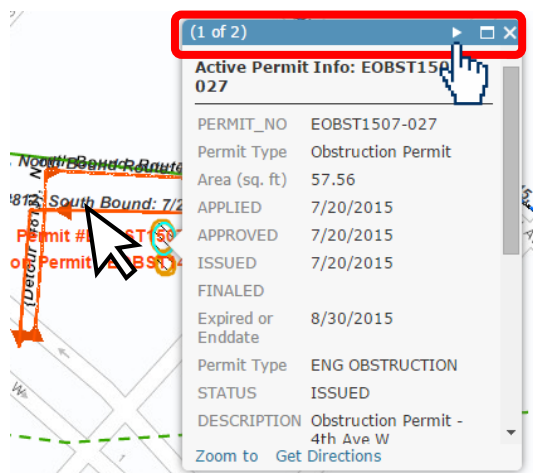
Time-Enabled Detour Search

- Turn on the layer "Time-Enabled Detours (searchable)

- You can use this layer to search by specific date ranges to only display those detour routes that are active between the date ranges.
- Slide the bar to the date range.
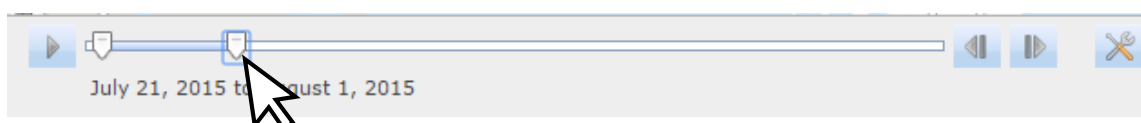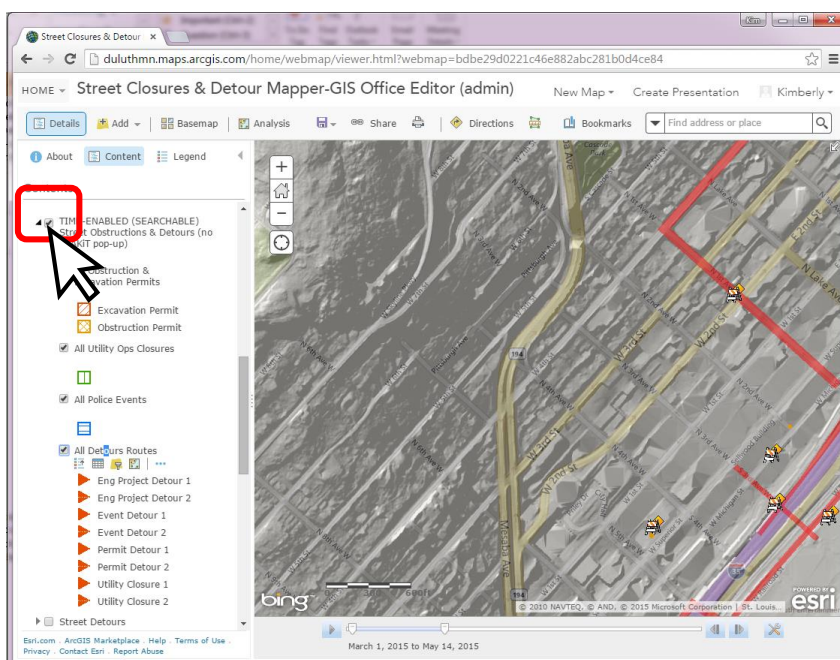
Using the Search Toolbar with "Find address or place"

1. If you know the address, use the arrow to select which type of search you want to perform: "All," "Esri Work Geocoder", or "EDITING LAYER – edit permit #"

2. Press enter on your keyboard or click the button. You can enter a few characters & the search will show a list of possible results.

3. Click on the correct permit number or address to zoom to that location.
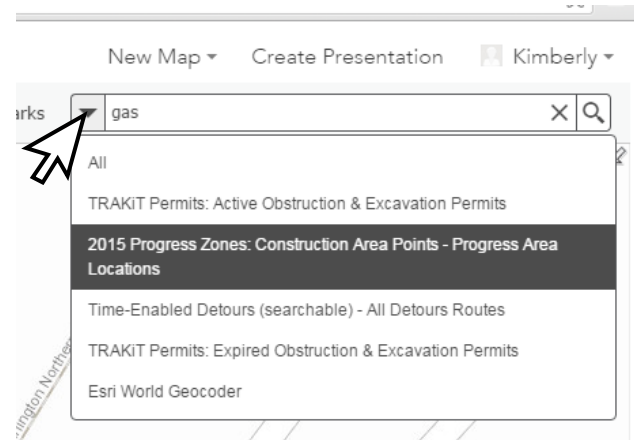
Open Up Linked Table for Layer

1. In the "Contents" window, hover your mouse over the layer name. You will see a table icon
2. Click the "Show Table" icon to open the attribute table.