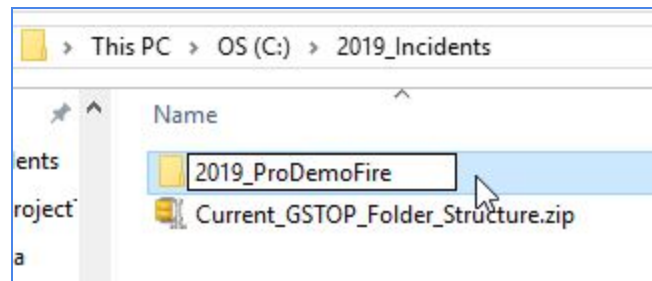


Prepare and Configure the Event GDB with ArcGIS Pro

This document will show the process for preparing to use ArcGIS Pro on an incident, utilizing the GSTOP compliant folder structure and Event Geodatabase.

1. Creating Incident File Structure

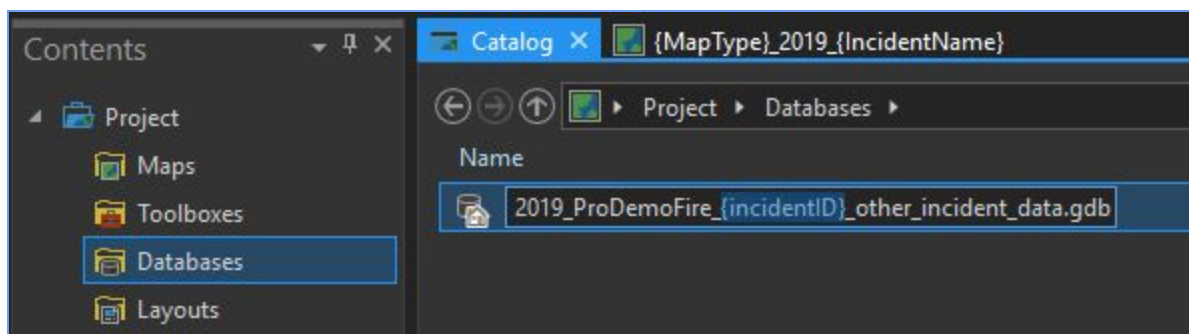
- Unzip the [Current GSTOP Folder Structure](#) as close to the root drive as possible.
- Rename the *2019_[template]* folder to the incident name.



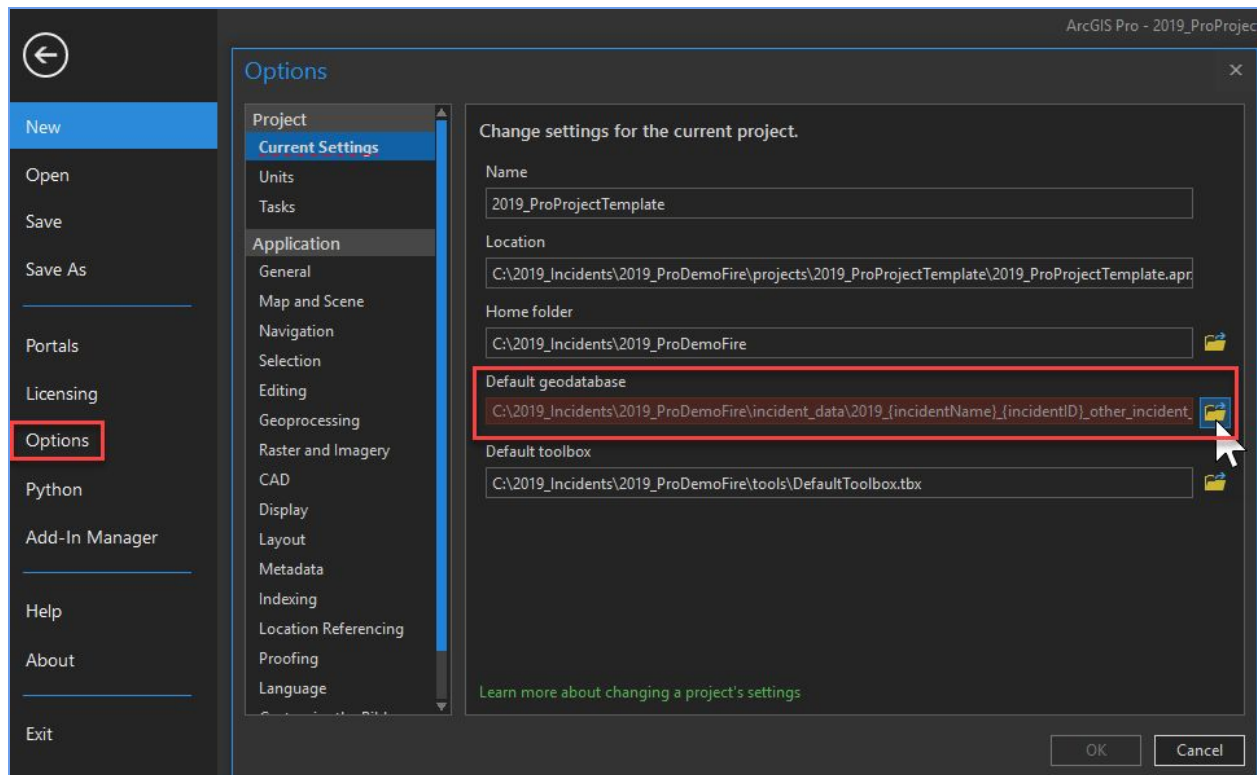
Note: It is very important that the most current *Current GSTOP Folder Structure* be used when setting up ArcGIS Pro. This will allow the Pro Project Template to establish the correct file pathways. The Pro Project Template can be added to an older Folder Structure, but the Default GDB will need to be reset to the correct *Other_Incident_Data.gdb* and the *DynamicTextUpdate* table will need to be imported there. Other issues may arise and it is not recommended.

2. Customize the Template to the Incident

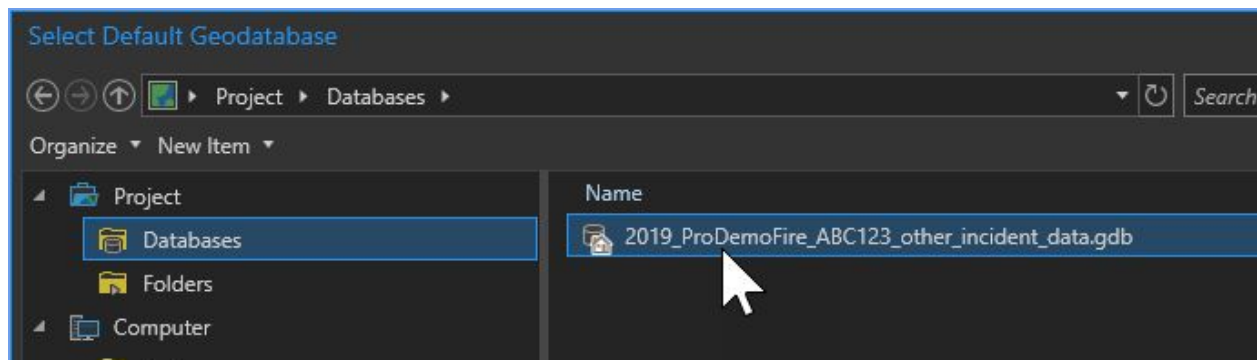
- In the *projects\2019_ProProjectTemplate* folder, open the *2019_ProProjectTemplate* APRX file.
- In the Project Databases folder under Contents, rename the Default GDB with the incident name and local ID.



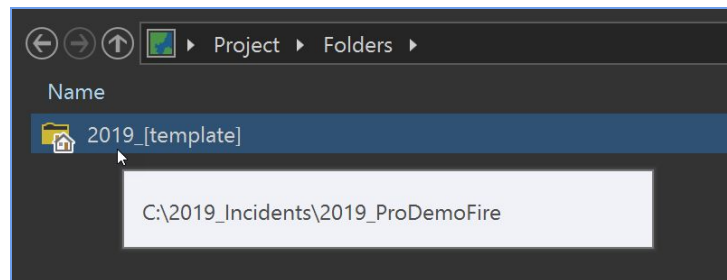
- c. Through Pro 2.3, simply renaming the Default GDB will not actually update the Default GDB setting. *This issue has been corrected in 2.4.*
 - i. Open the Project Options and click the browse button next to the Default GDB path.



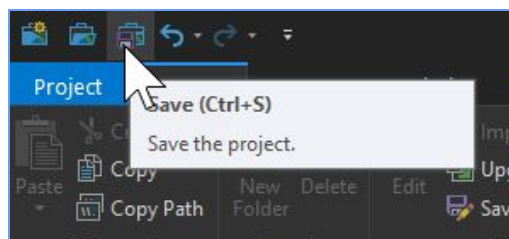
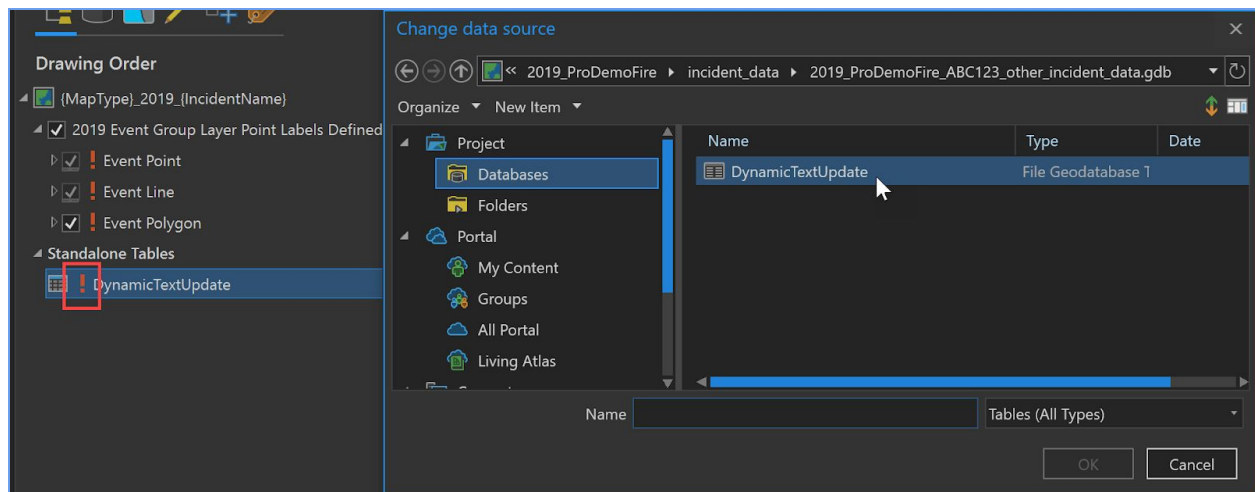
- ii. Navigate to and select the just renamed other_incident_data GDB in the Project Databases folder.



NOTE: A similar issue also affects the Home folder name. Even after renaming it to the incident name, it may still display as *2019_[template]* in under the project folders. This can be left as is, as long as the underlying connection is correct. *This is still an issue as of 2.4.*



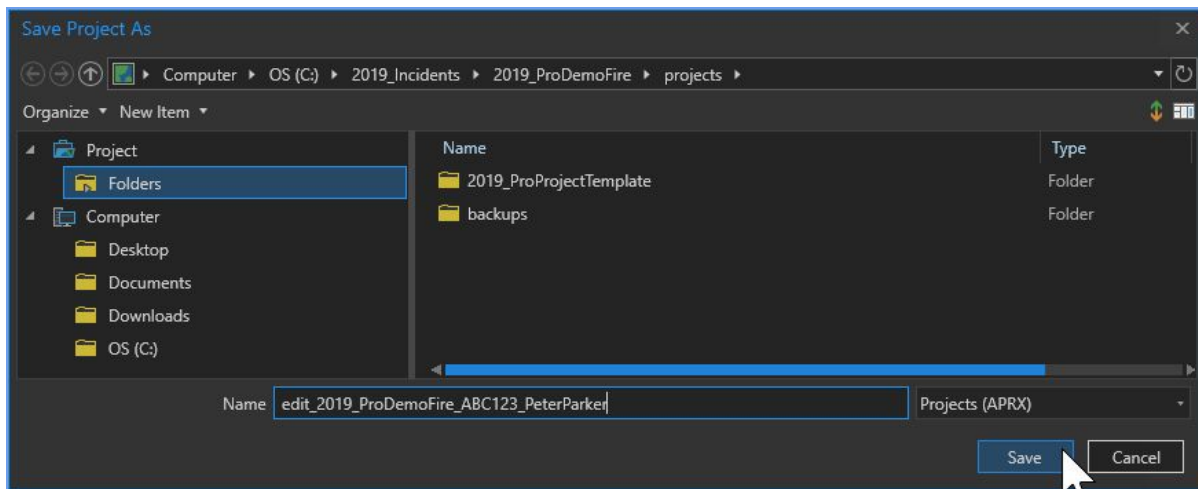
- d. Open the map view *{MapType}_2019_{IncidentName}* and repair the path of the *DynamicTextUpdate* table to the existing table in the Default GDB.



- e. Save the Project.

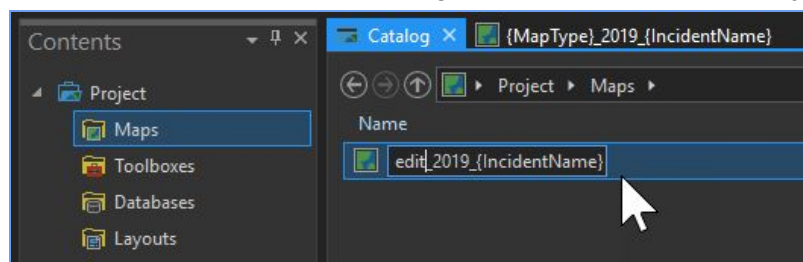
3. Create the **Edit Project**

- Use Save As to save the template as a new project in the *projects* folder, naming it *edit_2019_{incidentName}_{localIncidentID}_{yourName}*.

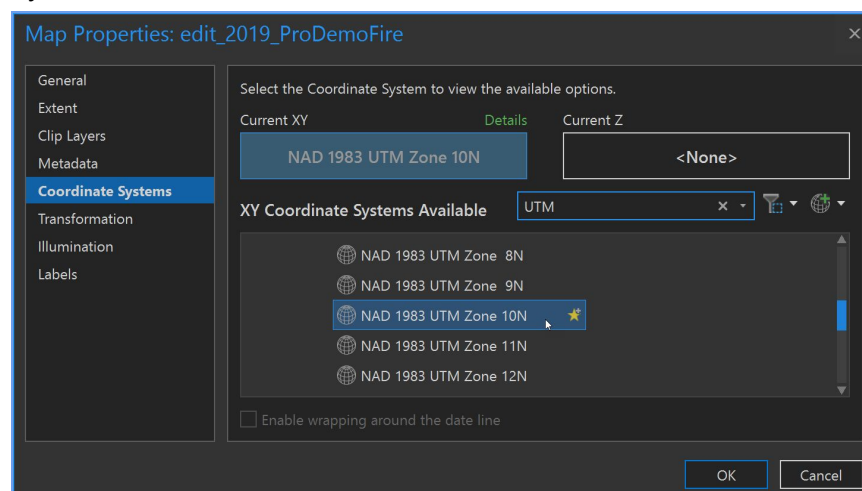


- Open the Maps folder and rename the existing *{MapType}_2019_{IncidentName}* with “*edit*” and the incident name (you can also open the map view and edit it in the Contents pane).

This is the **Edit Map**, all data editing should be done in this project map.



- Set the coordinate system of the Edit Map to a local, projected coordinate system.



- d. Open the *DynamicTextUpdate* table and fill in all the attributes.

DynamicTextUpdate

Field:

Add

Delete

Calculate

Selection:

Zoom To

Switch

Clear

Delete

Copy

OBJECTID	IncidentName	UniqueFireID	SourceStatement	Acres	AcresEffectiveDate
1	ProDemo Fire	ABC123	Acres Estimated	150 Acres	4/8/19
Click to add new row.					

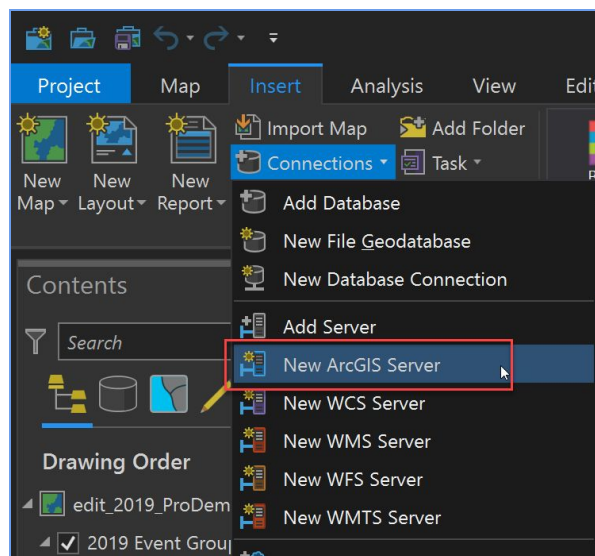
NOTE: Values in the *DynamicTextUpdate* table will populate dynamic text in every layout in every ArcGIS Pro project for the incident. It should be edited from the **Edit Project** while all other projects are closed so the updated values will populate properly. This provides a single source to update the current acreage.

Do not add additional rows to this table.

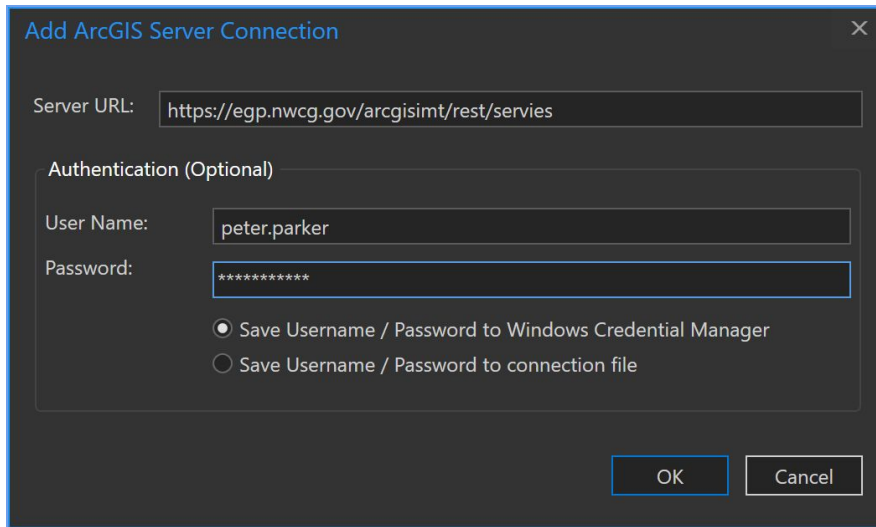
- e. Add basemap(s) and any ancillary data necessary to perform accurate edits of the incident data.

4. Set up a **Local Copy**

- a. From the Insert ribbon tab, on the Connections dropdown, use New ArcGIS Server to add a connection to the EGP ArcGIS Server.

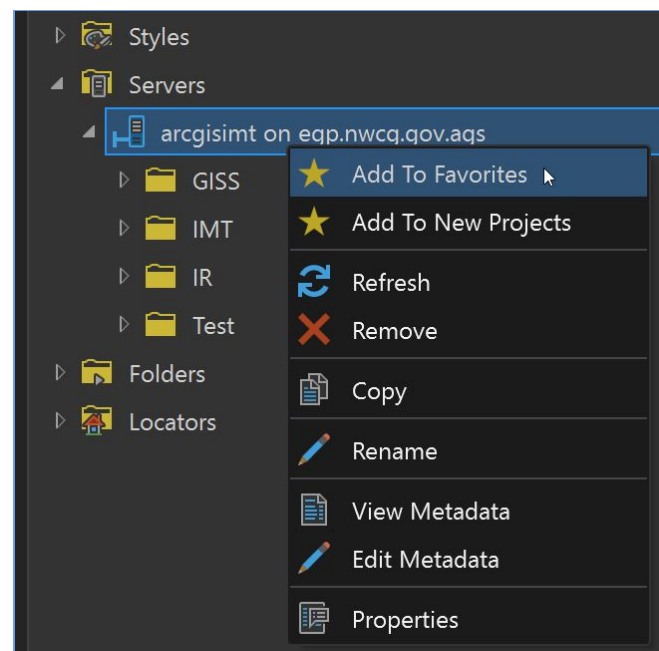


- b. Enter the URL <https://egp.nwcg.gov/arcgisimt/rest/services> and your EGP username and password.

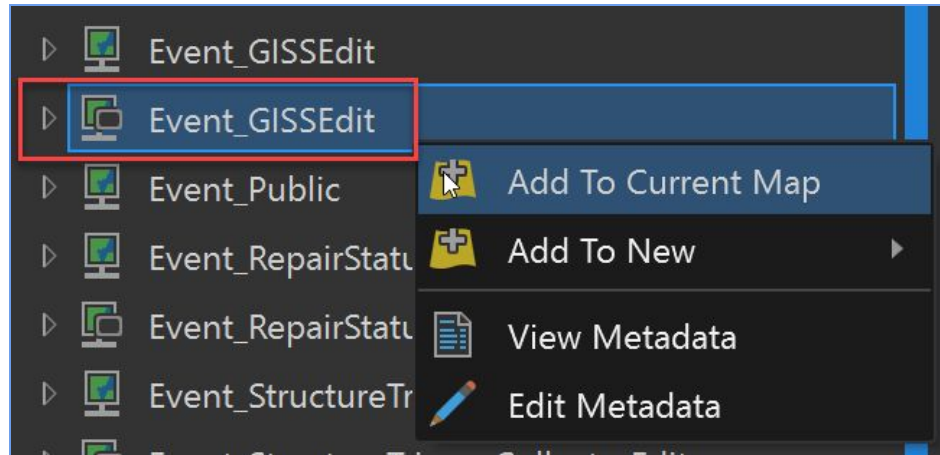


The 'Add ArcGIS Server Connection' dialog box is shown. It has a title bar with a close button. The 'Server URL' field contains 'https://egp.nwcg.gov/arcgisimt/rest/services'. Below it, the 'Authentication (Optional)' section contains 'User Name' with 'peter.parker' and 'Password' with '*****'. There are two radio buttons: 'Save Username / Password to Windows Credential Manager' (selected) and 'Save Username / Password to connection file'. At the bottom right are 'OK' and 'Cancel' buttons.

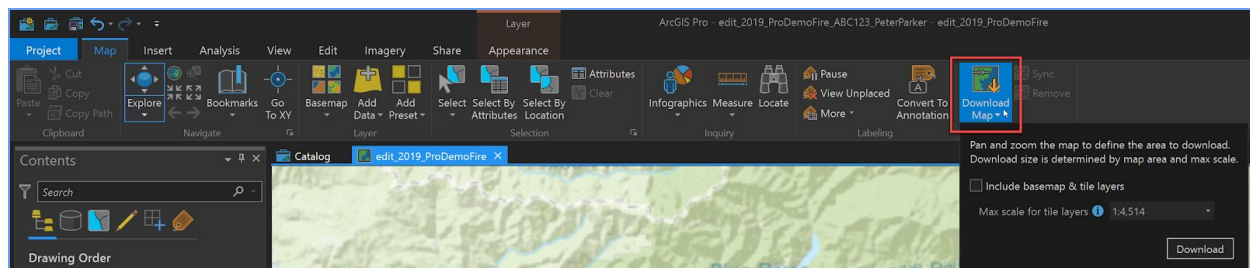
Tip: Right-click the connection in the Catalog pane and select Add to Favorites to quickly add the connection to future projects.



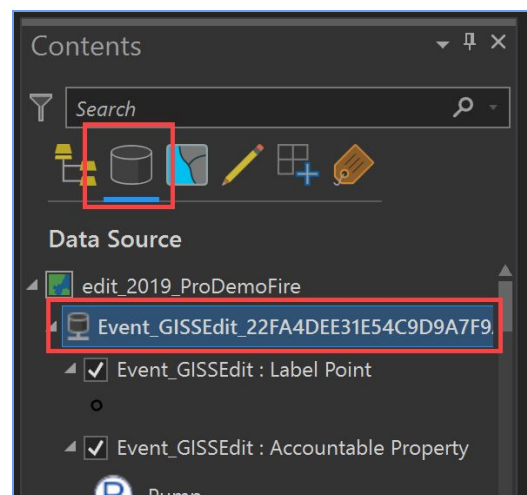
- c. Open the server connection in the Catalog pane and add the *Event_GISSEdit* Feature Service in the *GISS* folder to the **Edit Map** by right-clicking and selecting Add to Current Map or simply dragging it into the map frame. (Make sure you are using the Feature Service which has the little box on the symbol, and not the Map Service. Hovering the mouse over each will also display the type.)



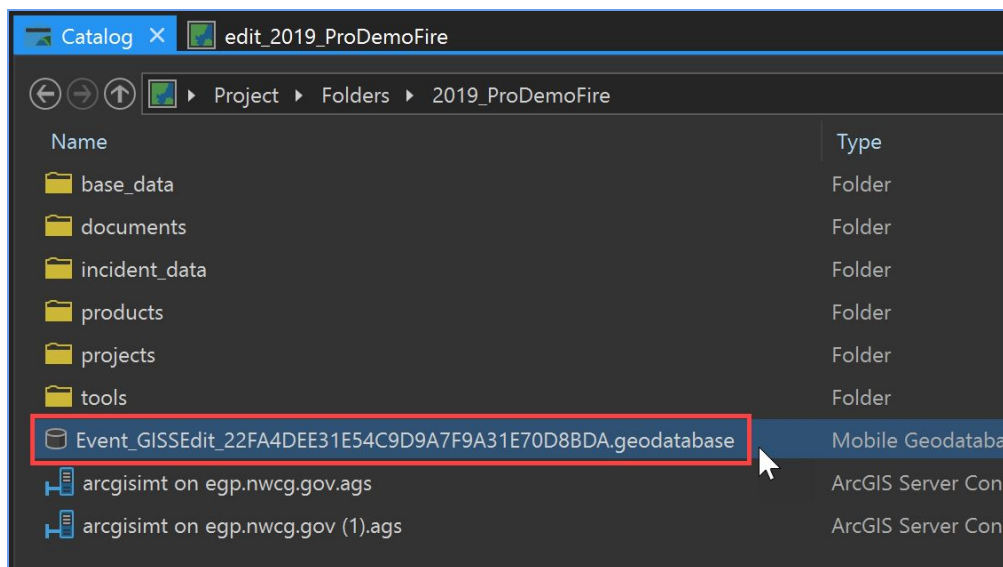
- d. In Pro, feature services can be edited directly. This is a good option for minor edits, but a **Local Copy** will still be needed to create the **Master Incident GDB**. To create a **Local Copy**, zoom in to the incident and click Download Map on the Map tab of the ribbon. There should be a triangle in Event Polygon that was auto-generated from IRWIN when the incident was created that can be used as a starting point. It will already contain the correct IDs.



- e. Once the download is complete, change the Contents pane to List by Data Source and confirm that the source for *Event_GISSEdit* is now a local GDB.



- f. The **Local Copy** will automatically be created in the Home folder (which is set to the main incident folder for the Pro Template). **Do not move or rename it.**

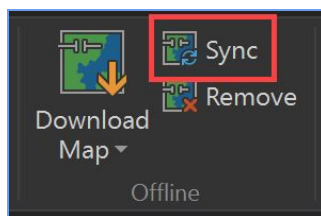
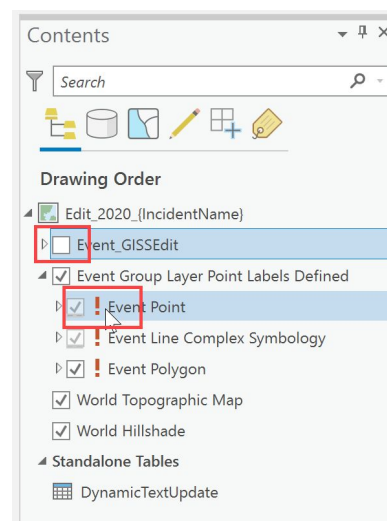


Note: The **Local Copy** is not a File GDB, it is a Mobile Geodatabase (aka Runtime GDB). ArcGIS Pro works natively with this format but if anyone is using ArcMap, it will need to be converted.

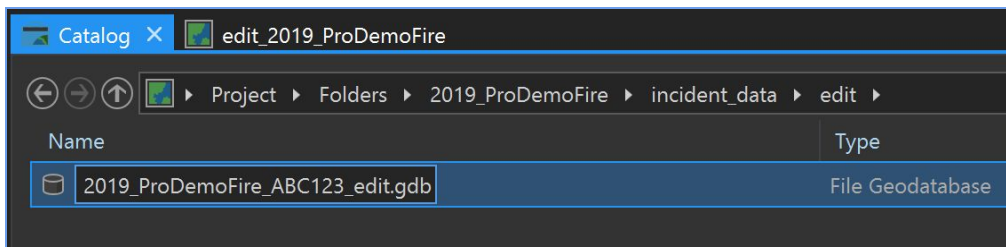
For more information on how to convert to a file GDB, see the document [Converting Runtime GDBs to File GDBs](#).

- g. To use the standard complex symbology of Event Line instead of the simplified symbols for editing, turn off the *Event_GISSEdit* group layer and repair the path of the *Event Group Layer Point Labels Defined* to point to the newly created **Local Copy**.

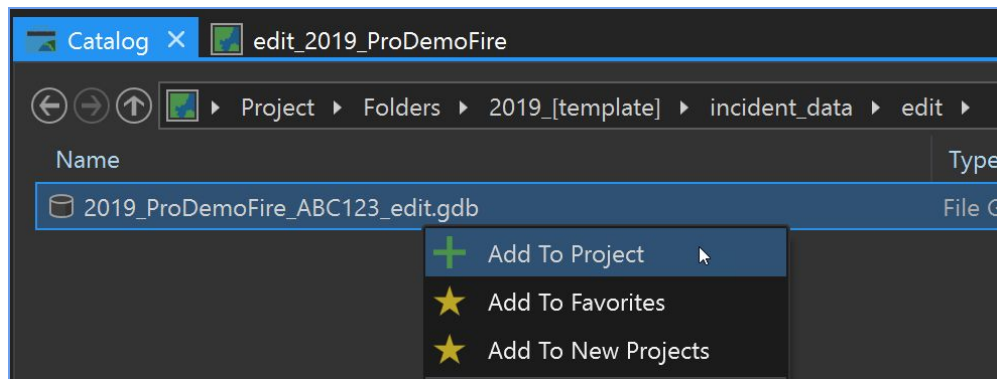
- h. Unlike in ArcMap, a **Local Copy** in Pro can sync with the service more than once. There is no need to create a new one each time. For more information on working with a Local Copy in Arcgis Pro, see the document [How To Edit a Feature Service in ArcGIS Pro](#).



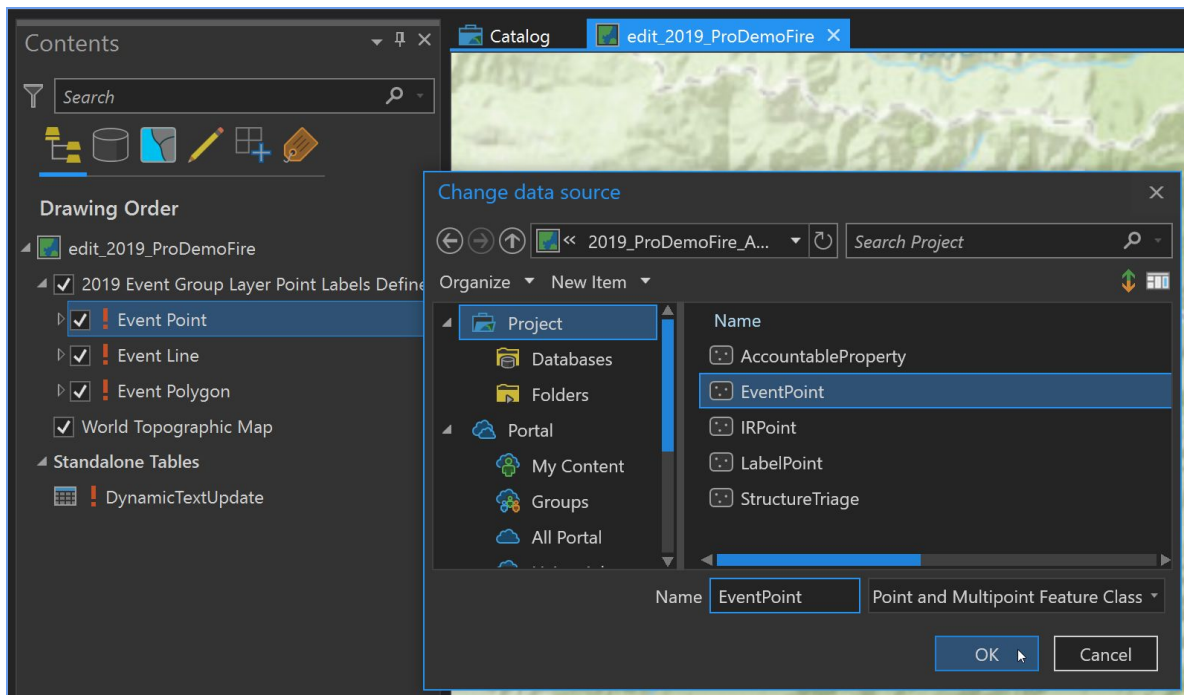
5. Alternatively, set up the **Edit GDB** if there is no internet available
 - a. Copy the empty Event GDB in the *tools* folder into the *incident_data\edit* folder and rename per GSTOP standards. This is the **Edit GDB**.



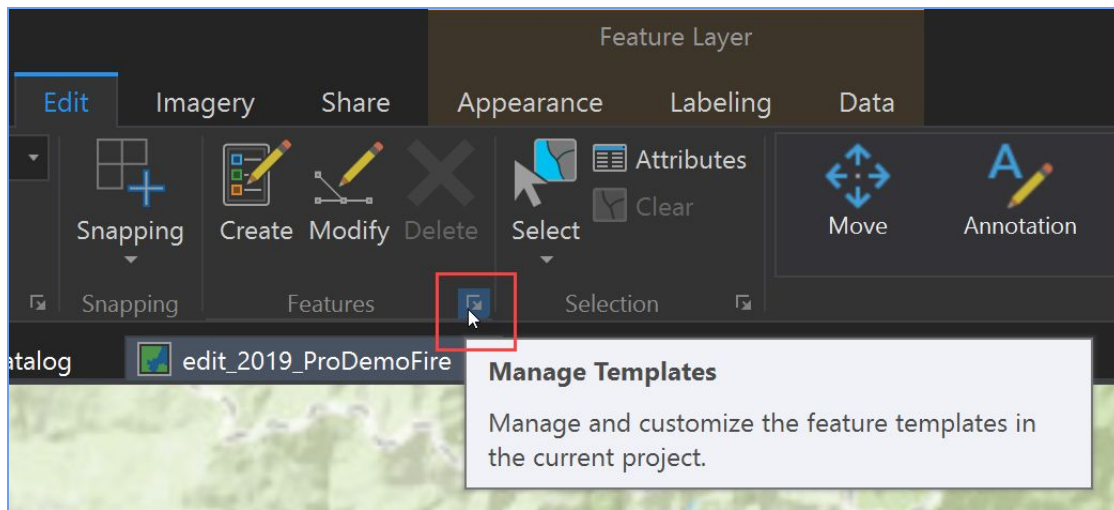
- b. Add the **Edit GDB** to the project databases for quick access.



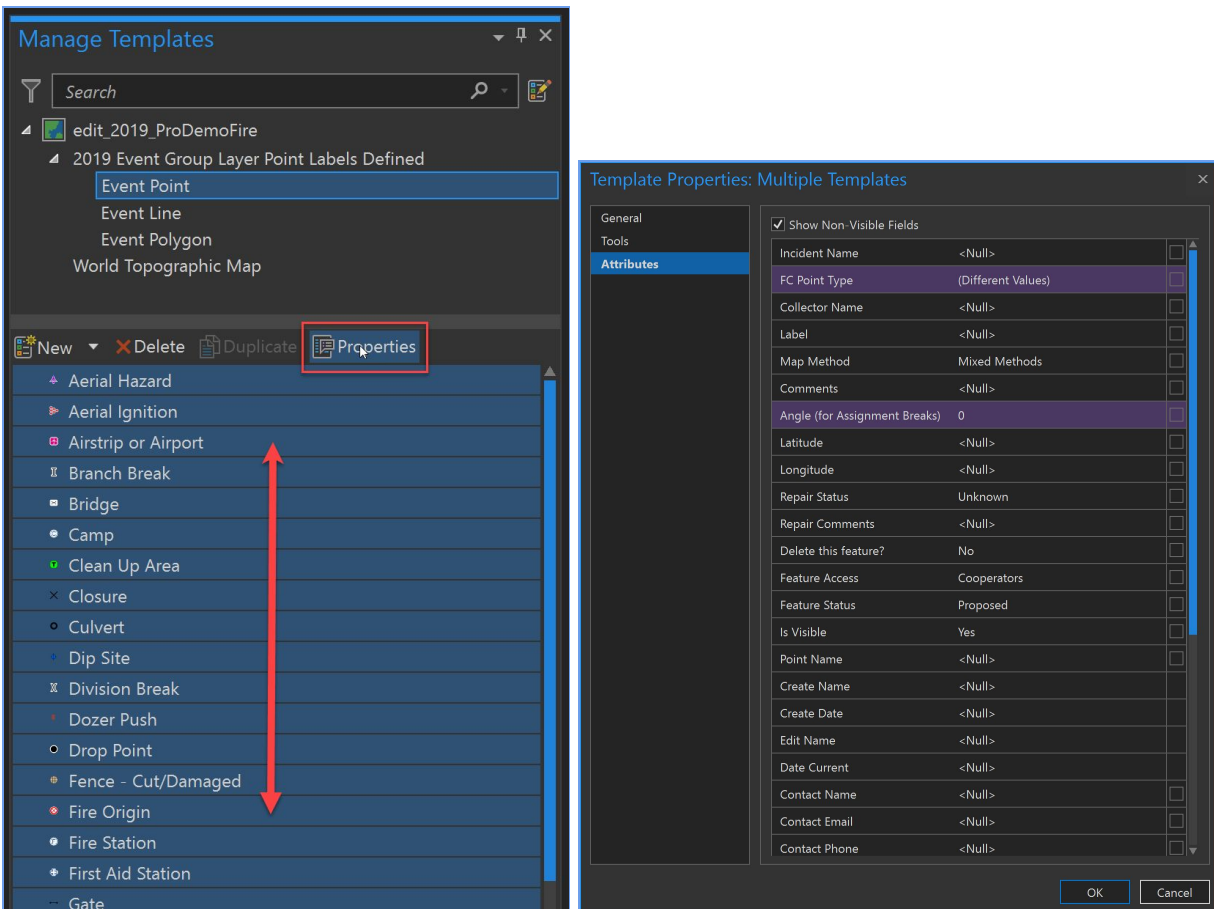
- c. There is a 2019 Event lyr file in the map contents by default. Click the red exclamation mark and change the data source to the **Edit GDB**.



6. Open the Manage Templates pane. This can be done from the Create Features pane (just like ArcMap), or by clicking the options button under the Features group on the Edit tab.



7. Starting with EventPoint, select all the features in the list and click Properties.



8. Work through the attributes, filling in or adjusting the values using the *Configuring Feature Template Defaults* table below as a reference. This will set the default values for all Point features created in this map.

The checkbox to the right of each attribute is for prompting collection of that attribute upon feature creation. See the *Configuring Feature Template Attribute Prompts* table below.

Configuring Feature Template Defaults

Field Alias	Default Value
Incident Name	Set default as the name of the fire incident (e.g. Badger)
Map Method	Leave as Mixed Methods or Set to Phone/Tablet if you expect most data to be submitted through Collector
Repair Status	Leave as is (Unknown) or set to Repair Needed if you expect most features to require repair
ContactName	Set default to your name (e.g. Pete Parker)
ContactEmail	Set default to your email (e.g. Peter@dailybugel.com)
ContactPhone	Set default to your phone (e.g. 303-555-9999)
ComplexName	Leave as is (<Null>), unless the fire is part of a large complex in which case set default to the complex name.
ComplexID	Leave as is (<Null>), unless the fire is part of a large complex in which case set default to the IRWIN ID* (see below) of the complex.
GACC	Set default to the GACC in which the incident is occurring (e.g. RMCC)
IMTName	Set default the team managing the incident (e.g. RM Blue)
UnitID	Set default to unit ID of the local unit (e.g. CO-HUX)
LocalIncidentID	Set default to incident ID assigned by the local unit (e.g. 000444)
IRWINID	Set default to the IRWIN ID* (see below) for the incident (e.g. { 1FB08B10-42C4-4FAB-86C4-CEF95CC3B15C })

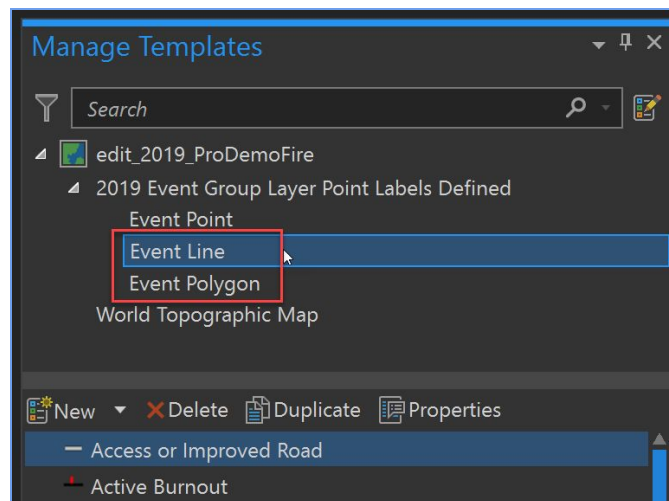
Configuring Feature Template Attribute Prompts

Event Feature	Recommended Attribute Prompts
Event Point	Collector Name, Label, Map Method, Comments, Angle, Repair Status, Repair Comments, Point Name, Point DateTime
Event Line	Collector Name, Map Method, Comments, Repair Status, Repair Comments, Line DateTime, Line Width Feet
Event Polygon	Collector Name, Map Method, Comments, Polygon DateTime

*Obtaining IRWIN IDs for Incidents and Complexes:

For information on finding the IRWIN ID and other important incident attributes please see the documentation [How To - Locating the IRWINID and other Important Attributes](#).

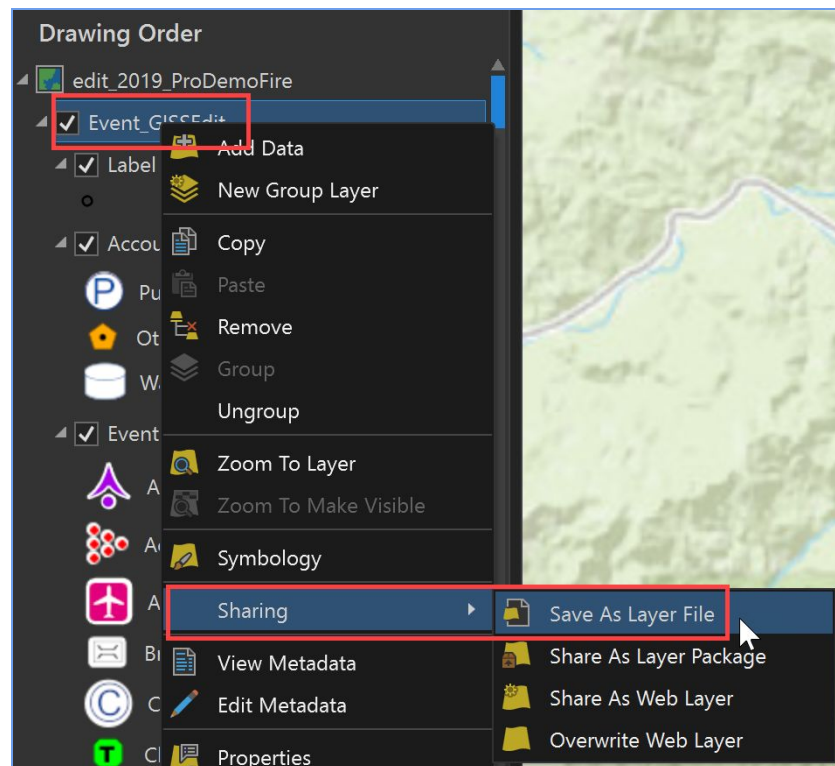
- Repeat the previous step for Event Line and Event Polygon



10. Once you have configured the Feature Templates for each of the Event feature classes, it is recommended that you save a layer file as a backup. A layer file will store both the symbology and, more importantly, all the incident specific template settings just configured.

- a. Right-click the *Event_GISSEdit* group layer in the Contents pane and select Save as a Layer File under Sharing.

Save the file to the incident_data folder following the GSTOP naming convention (*eventFeat_{year}_{incident name}_{unit ID+local incident ID}_{your name}.lyrx*)



- b. Use these layer files to build a new Editing map should you need to for any reason.

Note: The Feature Templates you created are saved in the layer files but will not be transferred to a new map if only the Import Symbology function in the Symbology properties is used. When moving to a new map add the layer file as you would a feature class through the Add Data window or ArcCatalog tab. If the data has moved or you wish to apply it to a different feature class, simply repair/change the data source.

Create the Master Incident GDB

The **Master Incident GDB** is the database with which all incident maps should be created. It is located in the *incident_data* folder. No editing should be done in this geodatabase.

1. If using an **Edit GDB**, simply copy it to the *incident_data* folder and rename per GSTOP standards (*{year}_{incidentName}_{localIncidentID}.gdb*) after completing edits.
2. If using a **Local Copy** and all the GISS on the incident are using Pro, the **Local Copy** Runtime GDB can simply be copied and renamed just like the **Edit GDB**.
3. If using a Local Copy and anyone is using ArcMap to create incident maps, it will need to be converted to a File GDB before being copied to the *incident_data* folder and renamed. See the document [Converting Runtime GDBs to File GDBs](#).

Create Incident Maps in Pro

The same Pro Template will be used to create all the project files for incident maps. Layouts are included for the most common page sizes and all the text is tied dynamically to the provided map view and the *DynamicTextUpdate* table in the *_other_incident_data.gdb*. Instructions for updating the dynamic text are found in each layout.

1. In the *projects\2019_ProProjectTemplate* folder, open the 2019_ProProjectTemplate APRX file.
2. Use Save As to save the template as a new project in the *projects* folder, naming it *{mapType}_{year}_{incidentName}_{localIncidentID}.aprx*.
3. Open the existing map view *{MapType}_2019_{IncidentName}* and rename it with the map type and the incident name. Unlike with ArcMap, this project will be used to create all the maps for this type, regardless of the printed size.
4. Repair the data source for the existing layers (or add a new lyr file and repair) to the **Master Incident GDB**.
5. Open or create a Layout in the appropriate size and customize it to the product type.

For more information on creating incident maps with ArcGIS Pro, see the document [Page Layouts in ArcGIS Pro](#).