

ArcGIS Collector

Gas Transmission Markers Phase II User Guide for Android



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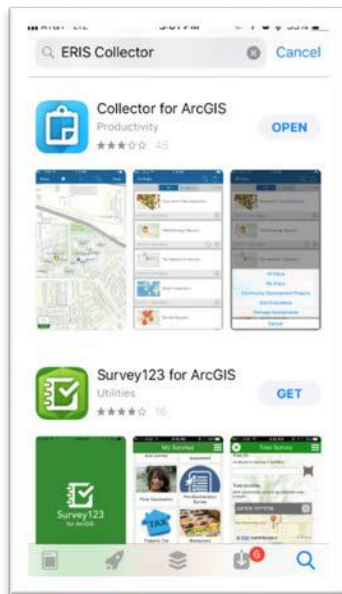
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Overviews and Tutorials

ArcGIS Collector

Below are step-by-step instructions for downloading, signing-in, and launching the ArcGIS Online app.

1. If needed, download Collector App by searching ESRI Collector in the App Store.



System Requirements:

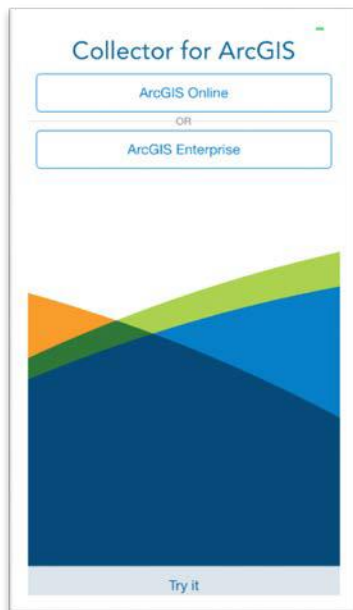
Android

- Android 4.2 (Jelly Bean) or later
- Processor: ARMv7 or later, or x86
- OpenGL ES 2.0 support
- Precise location (GPS and network-based) support

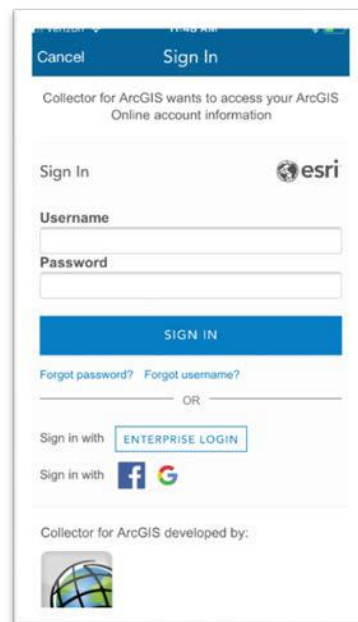
iOS

- iOS 8 or later
- iPhone, iPad, iPod touch

2. Start Collector App and sign in to ArcGIS Online.

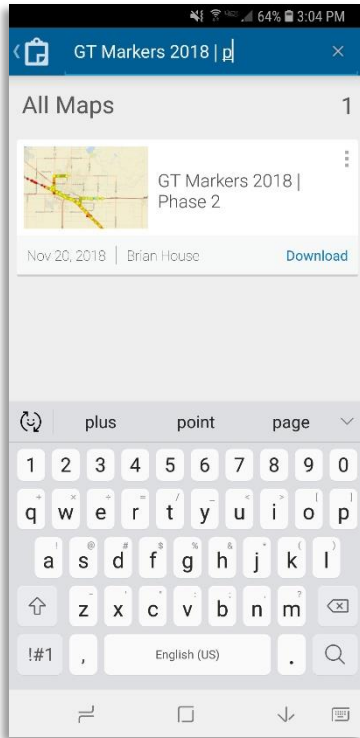


Select ArcGIS Online

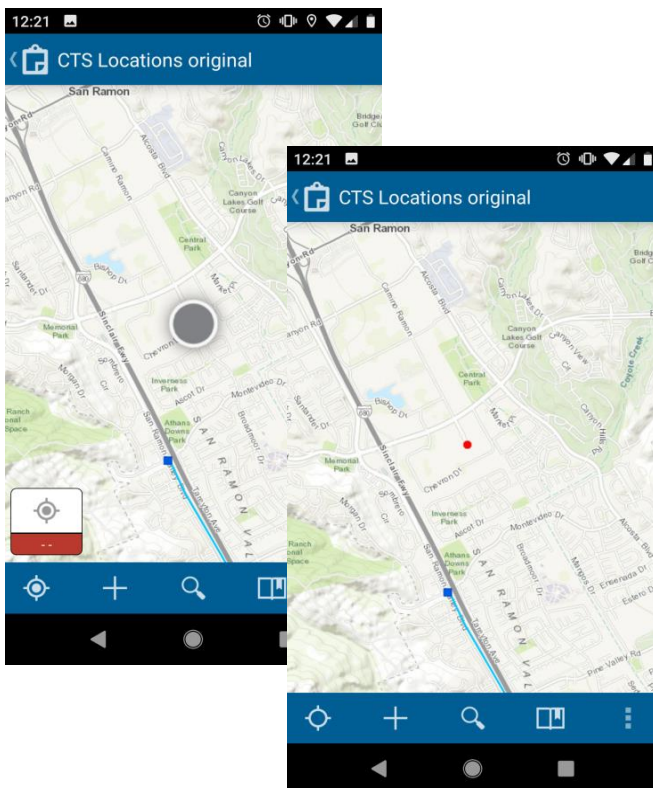
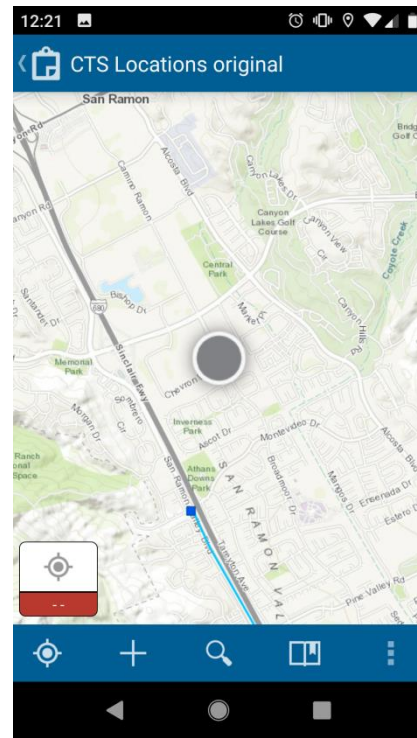


Sign-in

1. Search and open GT Markers 2018 | Phase 2



2. The map will open and center on your location.



GPS On

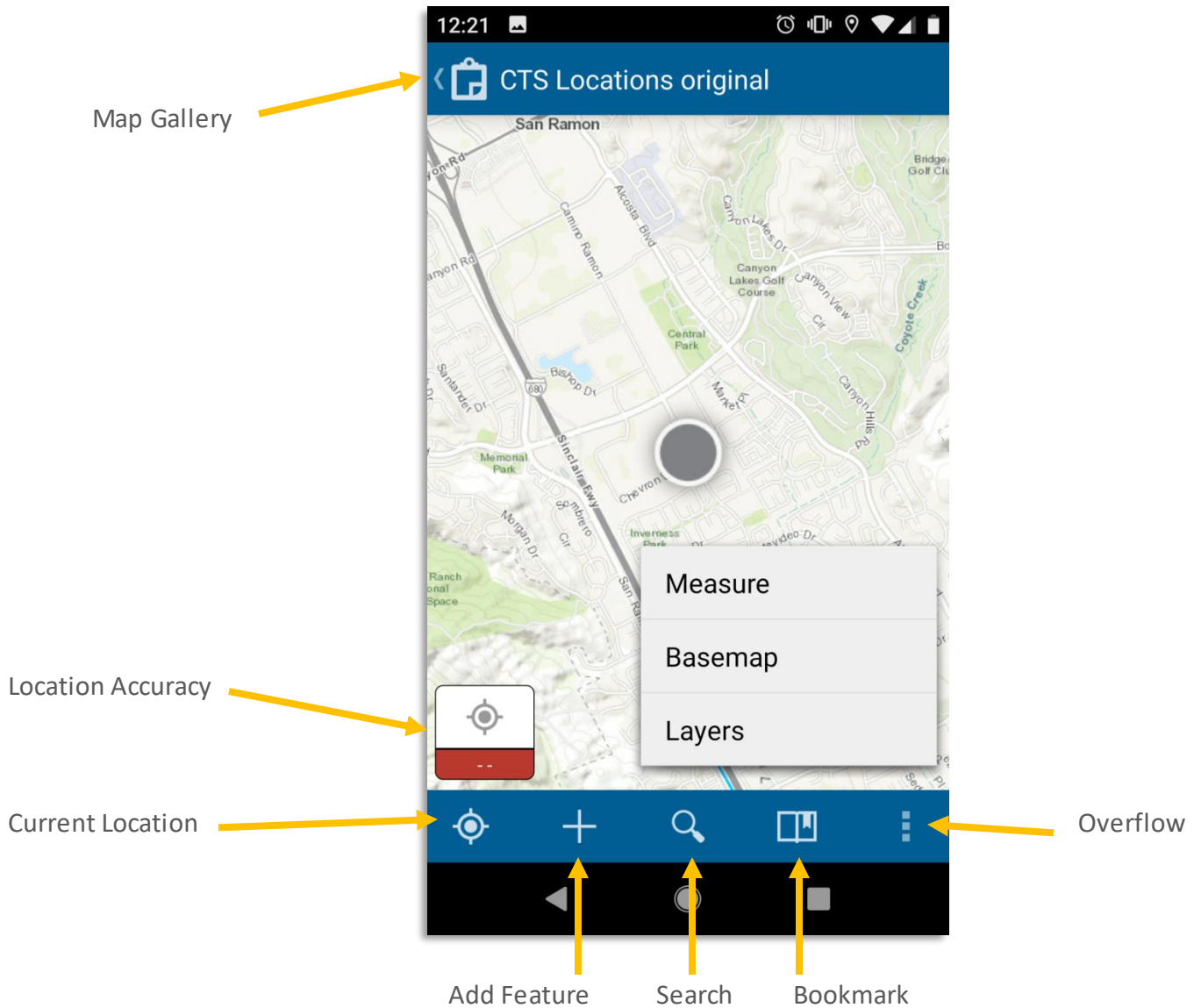
When the 'Current Location' icon is highlighted white, the GPS finder is on.

GPS Off

When the icon is not highlighted white, the GPS tracker is off.

Summary

This is an overview of the ArcGIS Online for mobile interface.





Overflow

Expands toolbar and shows the additional tools



Map Library

Navigates users back to the Map Library



Current Location

Center map on your current



Bookmarks

Access your bookmarks



Layers

MapLayers

Access Map Layers List



Location Search

Search for addresses and locations



Measure

Measuring

Access Measurement



Basemap

Basemaps

Access to Basemap Library



Add a feature

Create new point, polygon, or line



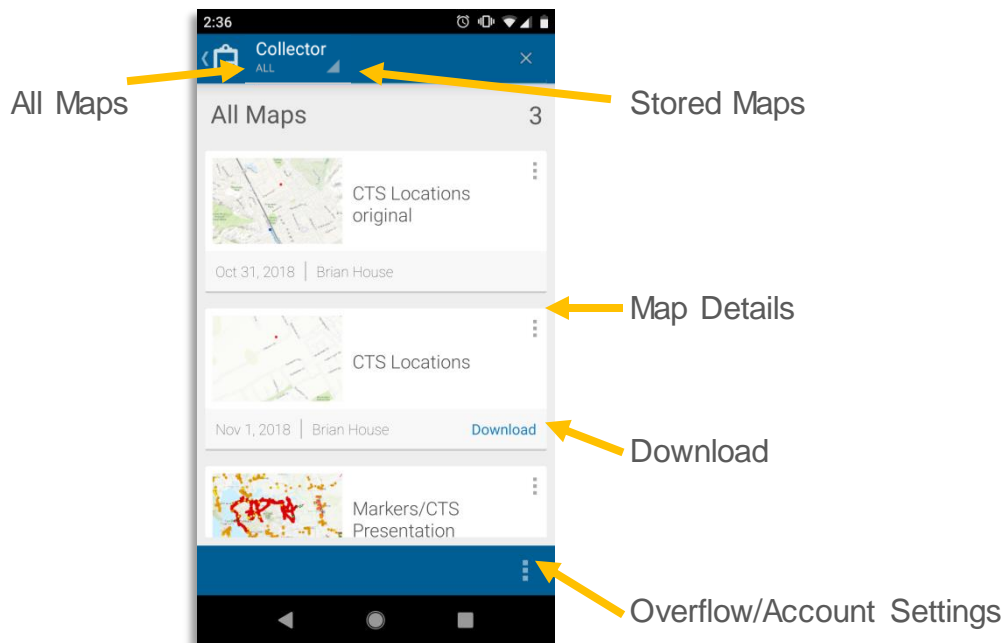
Accuracy Integration

Horizontal and Vertical Accuracy

Summary

This is where all your maps are stored. You'll have the option to store the map on your device.

Map Library Toolbar



All Maps

Navigates users back to the MapLibrary



Stored

Toggle between Cloud-Based and On



Search

Search through MapLibrary

Download

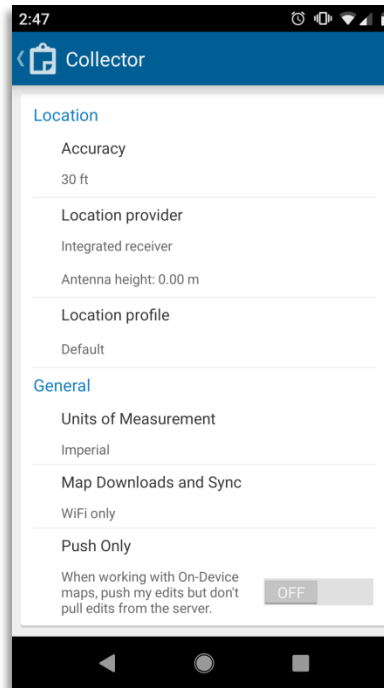
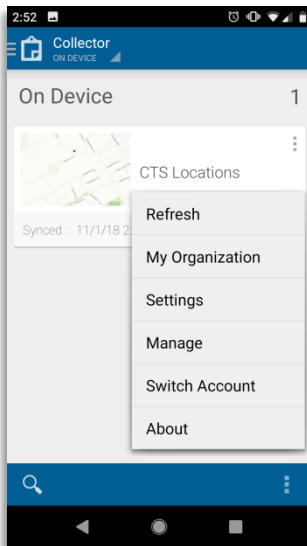
Download to Device

Store Maps on Device for 'offline

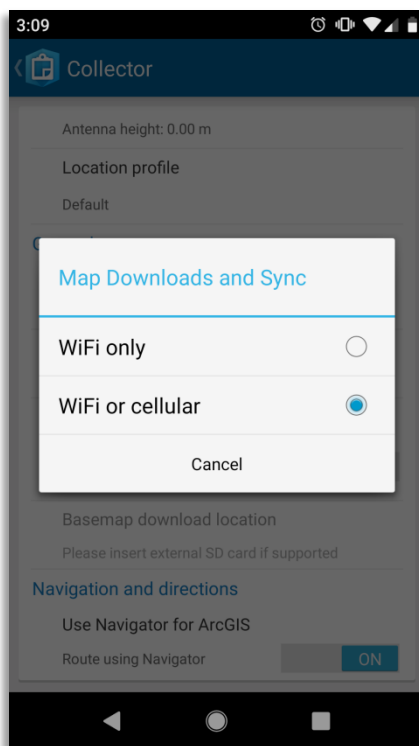
Details

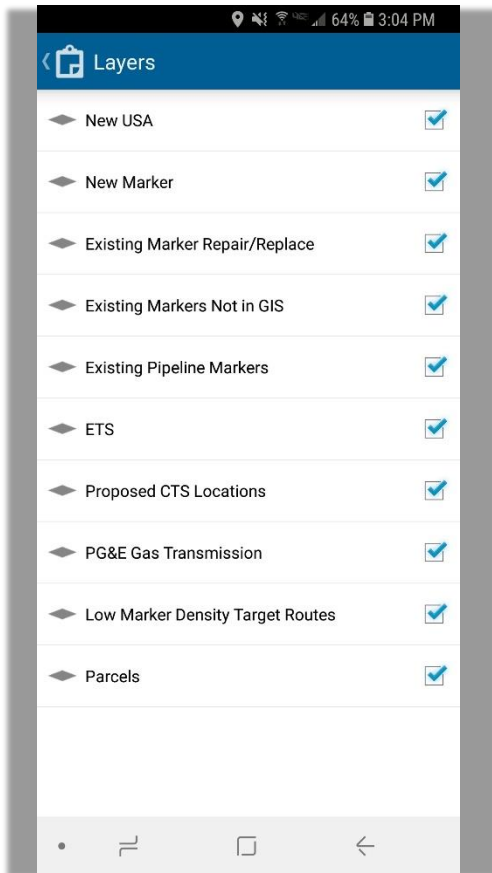
Map Details

View map and survey details



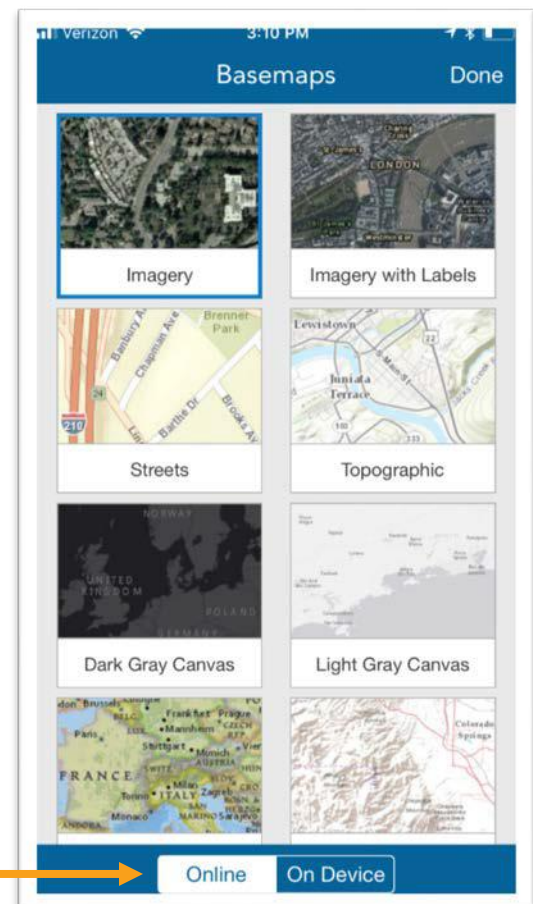
- Syncing of offline data should be available via wifi or cellular data.
- These can be configured in settings on the home screen.
- Open Settings and scroll down to General
- Select Maps Downloads and Sync
- Select Wifi or Cellular





The available layers to view are New USA, New Marker, Existing Marker Repair/Replace, Existing Markers Not in GIS, Existing Pipeline Markers, ETS, Proposed CTS Locations, PG&E Gas Transmission, Low Marker Density Target Routes, and Parcels. If the blue circle to the left of the layer option is checked and blue, the layer is turned-on and will appear on the map.

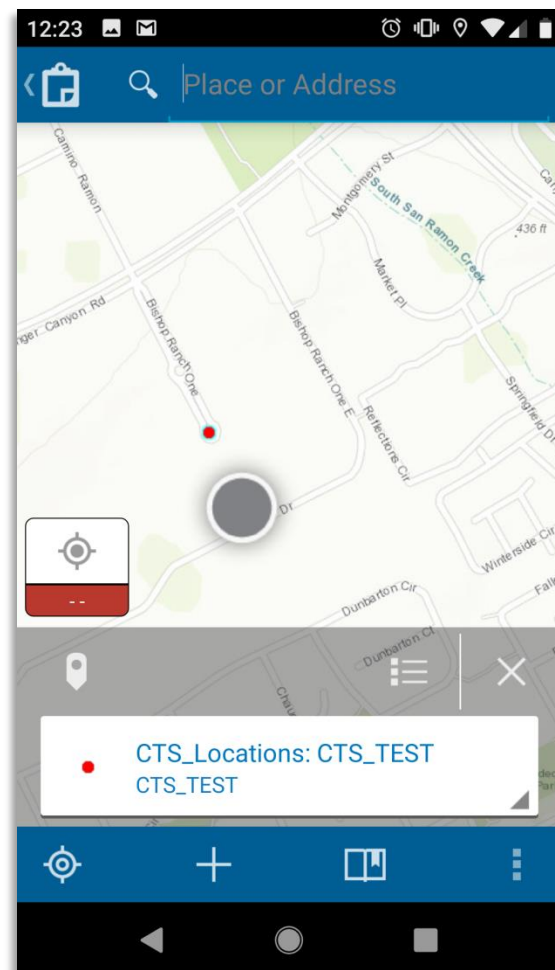
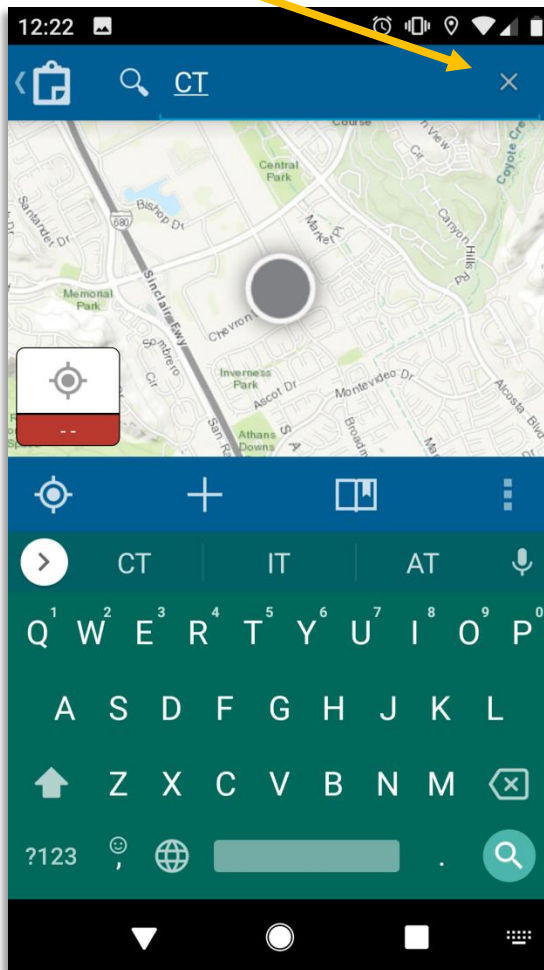
If connected to WIFI or mobile data (not working 'On Device') you can access any ESRI basemap at any time. While connected to WIFI or mobile data, you can store basemaps to be used when working 'On Device'. This is where you can change the display type of the map that appears on your screen.



Online/On
Device Toggle

Summary

This is where you can search for places, addresses, or specific marker locations. Once you enter the place or address you would like to locate, the map will adjust accordingly. The search can be removed by selecting the 'x' mark within the search bar.



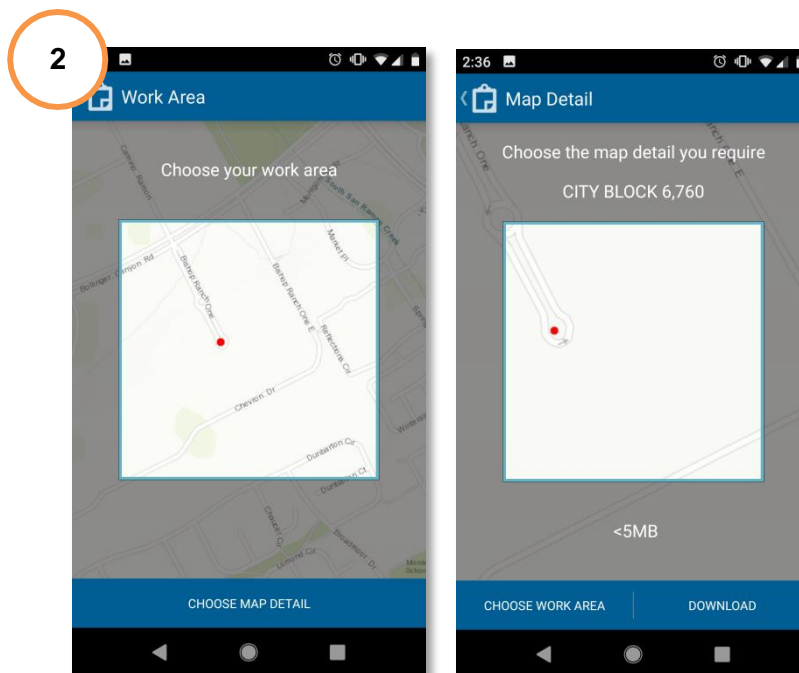
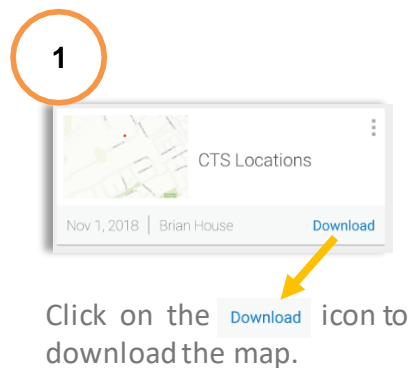
Upload and Sync Offline Maps

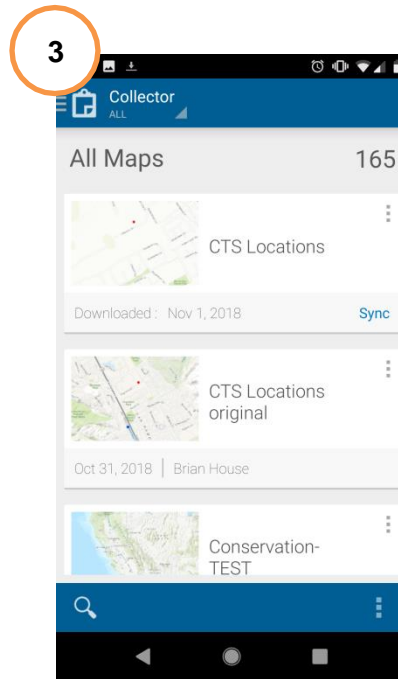
ArcGIS Collector

Summary

If you are working in a remote area with limited cellular service, you can download a map to work offline to work 'On Device'. If offline or working 'On Device', after you have re-established cellular service, you will need to go back to the 'Maps' menu under 'On Device' and click 'sync' these features to ArcGIS Online. This requires cellular data or WIFI connection.

Downloading a map for offline use

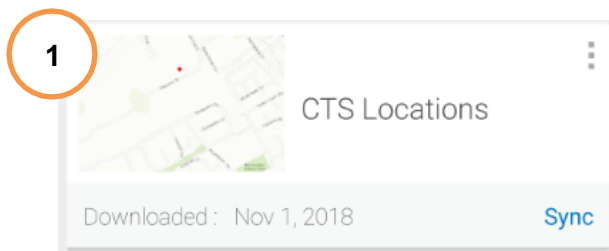




Sync means the map is now downloaded onto your device and is ready to sync

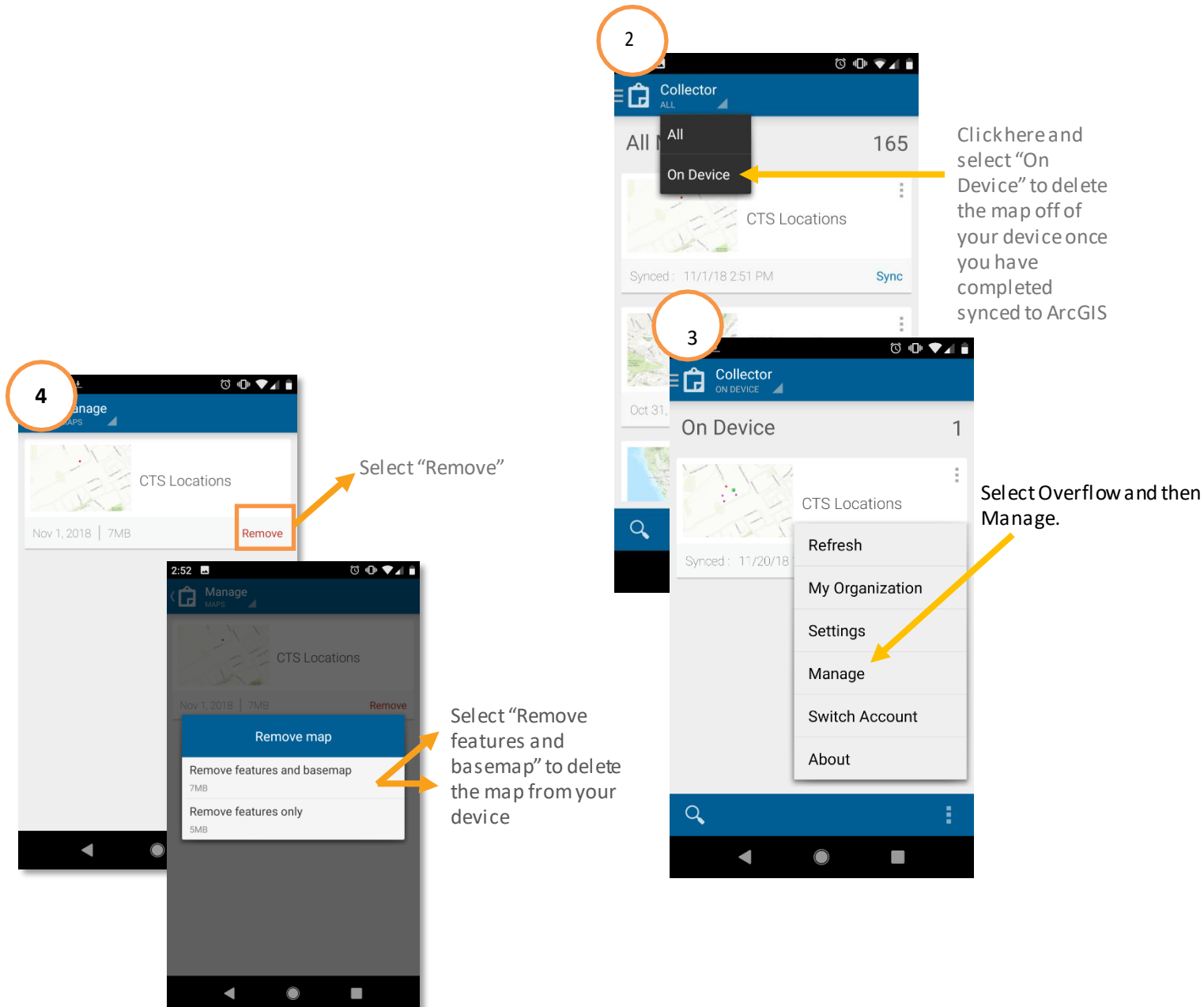
Syncing your offline activity

If you are working offline or 'On Device', be sure to sync your data once you have re-established either cellular service or have a WiFi connection. Once you have finished syncing all your offline maps, you can delete the saved maps from your device.



Select Sync submit the features added offline to ArcGIS Online

If you are working online, connected to ArcGIS Online with WiFi or cellular data, you do not need to sync because it is done every time you select submit.







Collecting Data

ArcGIS Collector

Summary

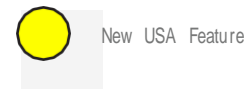
Below are the meanings of the symbols and colors that are seen throughout the map as you input the information for each layer.

Legend	
New USA	
	
New Marker	
	
Existing Marker Repair/Replace	
	
Existing Markers Not in GIS	
	
Existing Pipeline Markers	
	
Proposed CTS Locations	
MARKER_DENSITY_VALUE	
	8.23 - 12.40
	4.06 - 8.22
	0.00 - 4.05
Low Marker Density Target Routes	
	

Layer Description: Underground service alert that indicates there is a preliminary clearance to do work in the area.

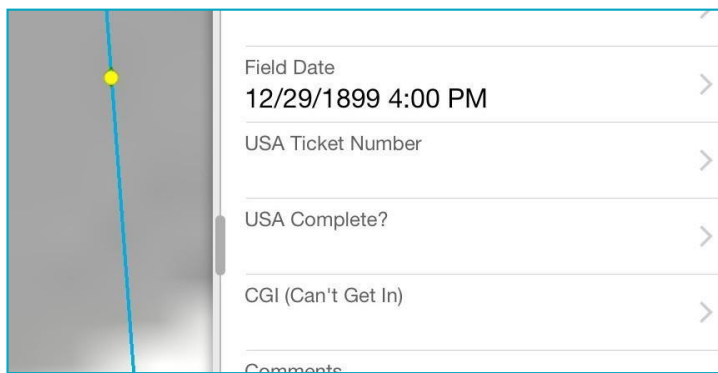
Create New Feature for “New USA” layer

- Select ‘+’ tab
- Select “NEW USA” from list.
- Place point manually onto the map



Input/Change Attributes for “New USA”

- Place “New USA” point manually
- All fields are required except the Comments field
- For the correct Field Date, select TODAY

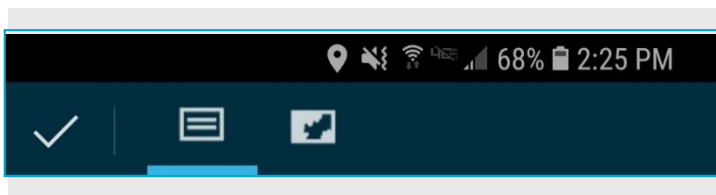


Field Personnel Full Name
Required

Required Field
Indication

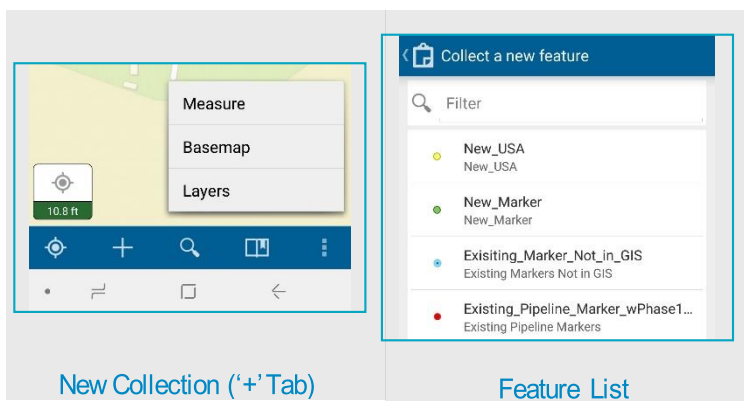
Submit

- Select checkmark located in left corner to save changes



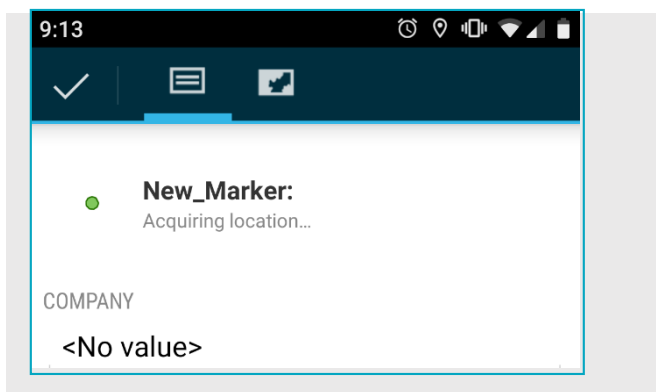
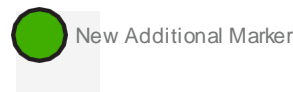
Layer Descriptions

New Marker: Points where additional 'Line of Sight' or 'PI' pipeline markers are installed. These are installed at contractor's discretion.



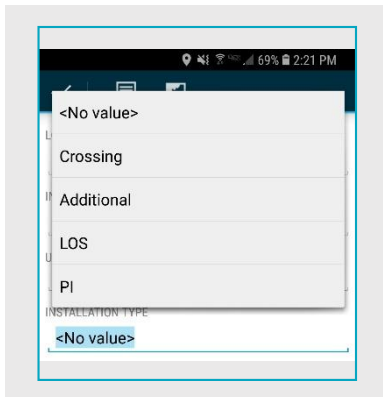
Add "New Marker"

- Select '+' to access layer list
- Select "New Marker"
- Input attributes in the input boxes



Input/Change Attributes

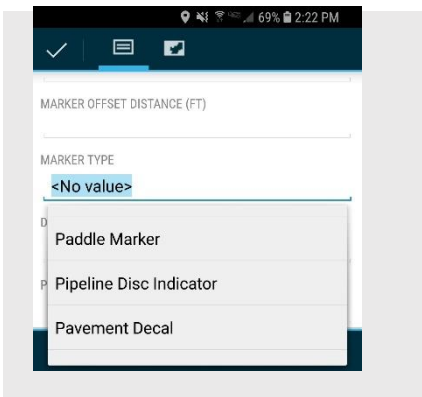
- Input the necessary attributes



Select Installation Type

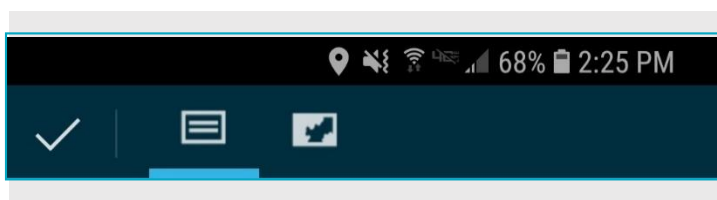
- Select Installation Type on the Attributes List
- Installation type, select from:
 - » Additional
 - » LOS
 - » PI

*note: do not select Crossing



Select MarkerType

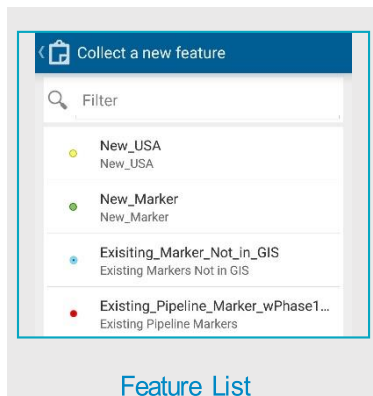
- Input the necessary attributes



Submit

- Select check mark to save changes

Layer Description: All existing markers that are identified in the field are added to this layer. This indicates to office staff and others that these features have been checked in the field. Sub-meter accuracy if possible.



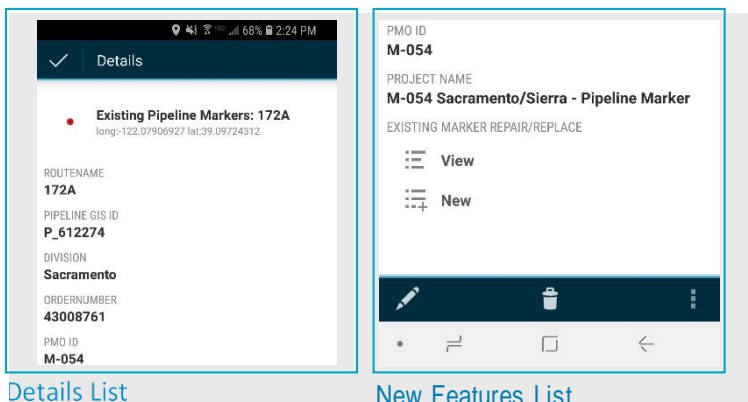
Select “Existing Pipeline Marker” located on the map

- Existing Repair/Replace Markers are related to Existing Pipeline Markers, you need to select the feature that you are going to repair and replace.
- A blue box will appear once it is selected.



Existing Pipeline Marker

Create New Related Feature to “Existing Marker Repair/Replace” layer



- Scroll down to the bottom of the Details list
- Select NEW under “Existing Marker Repair/ Replace”
- The attributes list will pop up
- Collector will automatically determine your location via GPS receiver.



Existing Marker Repair/Replace Marker

A mobile application interface for marker repair/replacement. The screen shows a title bar with a checkmark, a menu icon, and a location icon. Below the title bar, there is a yellow location pin icon and the text "Existing Marker Repair/Replace:" followed by coordinates "long:-121.70904720 lat:39.71109783". The form contains three input fields: "COMPANY" with a dropdown menu showing "<No value>", "FIELD PERSONNEL ID" with a text input field, and "FIELD PERSONNEL FULL NAME" with a text input field.

Input/Change Attributes for feature being repaired and replaced

- Required fields are indicated below the attribute names

A mobile application interface showing the bottom navigation bar. The bar is dark blue and contains three icons: a white checkmark, a white menu icon, and a white location icon. The checkmark icon is highlighted with a blue underline. Above the navigation bar, the status bar shows a location pin icon, a speaker icon, a Wi-Fi icon, a cellular signal icon, a battery icon at 68%, and the time 2:25 PM.

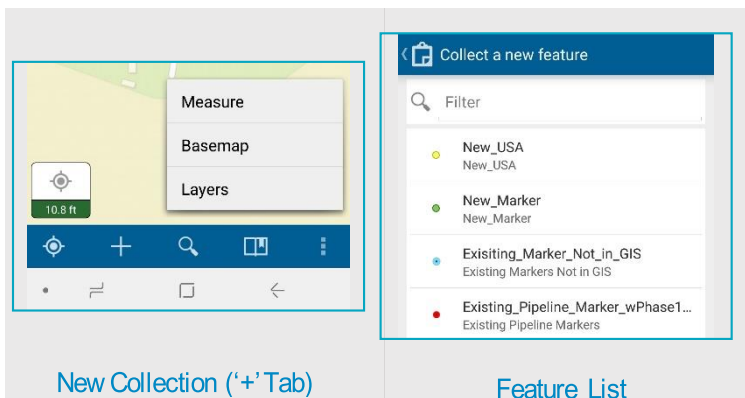
Submit

- Select check mark to save changes

Note: This is used in the rare situation where you find a Pipeline Marker in the field that has no existing GIS Feature. When using this option, you are responsible for adding a new feature to PG&E’s master dataset of Pipeline Markers

Existing Pipeline Marker

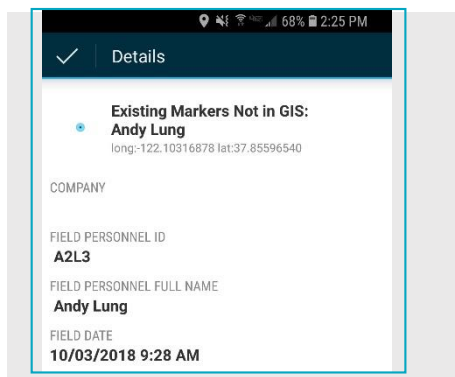
Layer Description: This layer is for markers found in the field and are not currently identified in the buffer. Sub-meter accuracy if possible.



Create “Existing Marker Not in GIS” feature

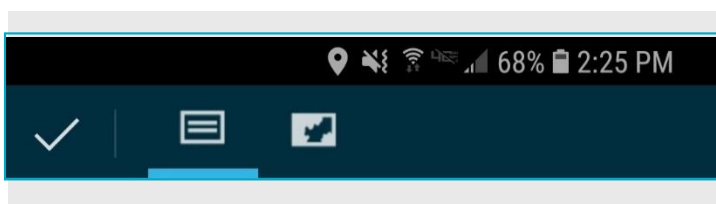
- Select ‘+’ tab to access layer list
- Select “Existing Marker Not in GIS” from layer list

Existing Marker Not in GIS



Input/Change Attributes

- Required fields are indicated below the attribute names
- The GPS will automatically find your location and set the marker on the map



Submit

- Select checkmark to save changes