


# DATA COLLECTION FOR BANNOCK SDI: FIELD MAPS TUTORIAL

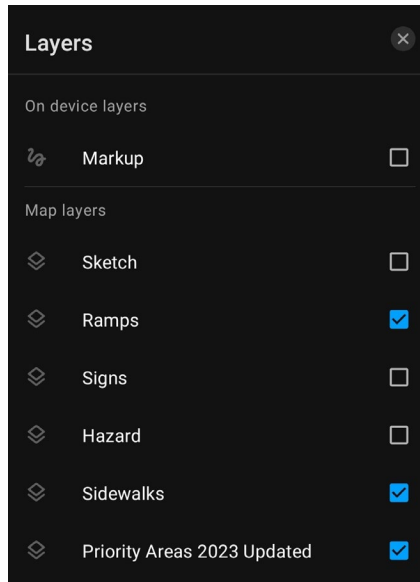
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Overview: The use of Esri's Field Maps has helped with past collection of sidewalk curb ramps for the Bannock County SDI project. While collection of other features (hazards and street signs) has also been completed using this app, this tutorial will focus on the collection of ramps (points) and sidewalks (lines). The Esri Field Maps app allows users to input data into the Field Maps interface while in the field. Data collected includes date and location as well as descriptions, measurements, and photographs taken at a particular site. Data collected is stored in ArcGIS Online (AGOL) and can later be used to assess ADA ramp compliance.

## Steps:

### **Part 1: Access and Explore the Data**




1. Download Esri's Field Maps to a mobile device (i.e., smart phone or tablet).
2. Once installed, use your AGOL username and password within Field Maps to log in.
3. Confirm you have access to the Bannock GIS Project group folder.
  - a. This folder should be located in the home Maps tab.
  - b. If you have other projects, these will be located at the top of the list. Scroll down to find the Bannock GIS Project folder under Groups.
    - i. Select the folder.
  - c. If you do not see this folder, contact your ArcGIS collaboration coordinator in order to be added to the group. Once they have successfully added you as a member, you should be able to see shared group content.
4. Once you are in the correct folder, you will see the Bannock SDI field collection sidewalk ramp inventory map. Select this item.
5. Using the correct map for collection, select the layers button  in the upper-right corner. This will bring you to the Layers tab.
  - a. Take some time turning on and off layers, switching back and forth between the layers tab and the map in order to familiarize yourself with what each layer contains.
    - i. Notice the different symbology used between layers and features within each layer.



## Part 2: Preparing for Collection

1. With the `Layers` tab open select which layer(s) you would like to see during collection.
  - a. Depending on what you are collecting --ramps, signs, hazards, or sidewalks-- you will want to turn the appropriate layers on and turn off unnecessary layers.
  - b. Having more than two layers displayed at a time will make collection more difficult. So, make sure to turn on only those layers you will be collecting data for.
    - i. In addition to turning on layers for features you will be collecting, we suggest you leaving the current priority collection area layer on. This is especially important if there are new priority areas for the year or season.
  - c. Once you are done with the `Layers` tab, close it by tapping the `x` in the upper right-hand corner.

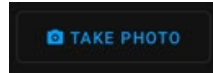
## Part 3: Collecting Ramps


1. With the map open, you will see a collect data button  in the bottom-right corner of your screen. Tap this button to `ADD` a point.
2. Alternatively, if you want to `EDIT` an existing point, simply select the feature you want to edit by tapping that point on the map.
  - a. When tapping the screen, it is likely that a list of existing points, lines, and polygons that are already on the map will pop up.
    - i. Be sure to select the correct item from the list.
    - ii. To help determine what you have selected, look for the cyan outline surrounding the item on the map. 
  - b. Once the item you want to edit has been selected, locate the edit button in the bottom left corner of the screen. 
3. Now that you are ready to add or update an existing point and are in the `Collect` tab, there is data you will need to enter.
  - a. The first thing you will want to do is add or update your point on the map.
  - b. Select the large button at the top while in the `Collect` tab and the point's location will be added or updated.

- i. Be sure to not move while the location is being acquired.




- c. Next, you will want to take a photo of the ramp. Select the take photo button.





- d. Once the camera app opens, turn your device horizontal (landscape mode) and take a photo that captures the entire ramp and curb.
- e. The remaining fields are either length measurements, slope measurements, or descriptions.
  - i. For length measurements, you will use a tape measure to get the measurement of the particular length. Round this to the nearest foot.
  - ii. For slope measurement, make sure the level you are using is set to percent. Take this measurement and round it to the nearest tenth.
  - iii. For descriptions, once you select the specific field you wish to edit, there will be a drop-down list of descriptors you can select from.
- f. Collect data for each relevant field. Once this is done, select the check mark  in the upper-right corner to close and submit your edits.

#### Part 4: Collecting Sidewalks


- 1. With the map open, you will see a collect data button  in the bottom-right corner of your screen.
  - a. In order to ADD a line, you will need to select this button.
  - b. When adding new line data for the sidewalk layer make sure that layer is turned on.
  - c. When the sidewalk layer is turned on and you select the add data button, you will see a list of different sidewalk types numbered zero to seven (0-7). Since it does not give the name the sidewalk type (the material it is constructed from), use the following table to select the correct type.

|       |        |         |        |      |       |            |      |
|-------|--------|---------|--------|------|-------|------------|------|
| 0     | 1      | 2       | 3      | 4    | 5     | 6          | 7    |
| Other | Cement | Asphalt | Cement | Dirt | Grass | Unpassable | Wood |





- 2. Alternatively, if you want to EDIT an existing line, simply select the feature you want to edit by tapping the line on the map.
  - a. When tapping the screen, it is likely that a list of existing points, lines, and polygons that are already on the map will pop up.
    - i. Be sure to select the correct item from the list.
    - ii. To help determine what you have selected, look for the cyan outline  surrounding the item.
  - b. Once the item you want to edit has been selected, locate the edit button in the bottom left corner of the screen. 
- 3. Systematically review and complete each field, entering the appropriate information. Data to be recorded range from descriptors (such as adjacent street name and sidewalk type), to slope measurements, and width of sidewalk.

4. Once you have recorded all the known data for the sidewalk you are about to collect, stand still at your starting point and select the **Add Point** button at the top of the collection tab, just like you would have done when adding a new ramp point.



- a. Unlike when adding a new ramp point, you will be creating a line. To do this, after selecting **Add Point** you will walk to the end of the side walk and select **Add Point** once again. Note: this should only be done for sidewalks that follow a straight line.
  - i. In the case where the sidewalk is curved at any point, you will want to add points along the curve so that there is not a straight line cutting across from the start to the end point.
- b. Once you have collected the final end point, select the check mark  from the upper-right corner of the screen to submit the data you have collected and close collection.

### Part 5: Useful Functions and Other Maps

1. While looking at the map you will see an icon in the upper right-hand corner. 
  - a. When this icon is selected, the map frame will move to your current location.
  - b. If you select this icon once again, a new icon will appear underneath it. 
    - i. This icon is a compass which will help you by orientating the map to match the direction you are facing (NOTE: this feature is not highly accurate).
    - ii. To stop the active compass mode, tap the compass icon again and it will reorient the map to the expected north-top orientation.
2. Within the **Bannock GIS Project** folder, you can also find an **Update Status** map.
  - a. This map has priority area polygons as well as updated  and not updated  points.
  - b. This particular map can be useful when determining what priority areas still need to be visited.
  - c. We suggest checking this map occasionally so time is not wasted traveling to ramps where data has already been collected. It is also important to check this map to make sure no ramps were missed in each priority area.