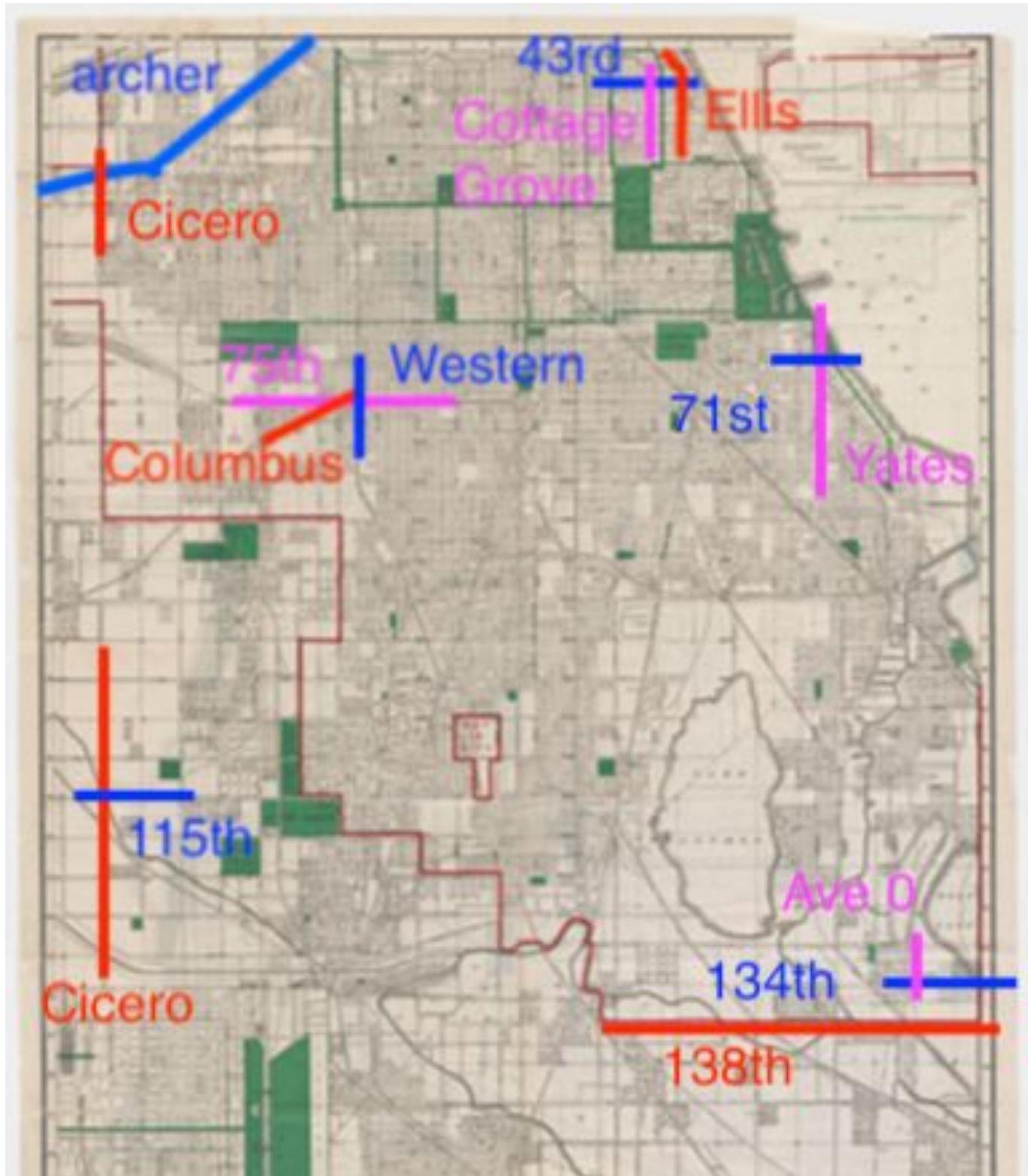
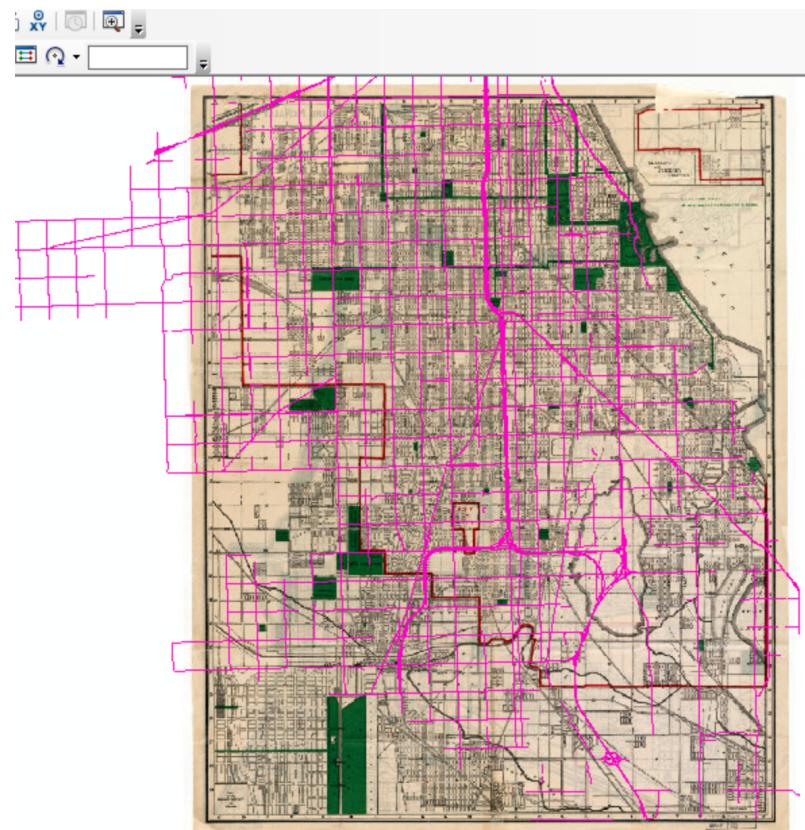


Before starting to georeference it is important to look at both the Major_Streets data set and the map itself to identify places where they match up. Ideally you will want to choose at least one point for every corner of the map image for the best results. It helps to look for irregular features that will be easy to spot on both the Chicago map and the Major_Streets data. I opened the full map in another window so that I could zoom in and read all the small street names. Then I made a sketch map with a smaller version of the map and made notes for myself for where some easily identifiable features were. Since the map is from 1916, some street names and locations have changed in the modern data set.





Once you are more familiar with streets on the map and streets in the `Major_Streets` dataset, you will see that the map only covers the bottom portion of the `Major_Streets` dataset. You can zoom in to this area and then select `Fit to Display` on the Georeferencing toolbar again to start the georeferencing process with the map closer to its actual position.



Starting Georeferencing: Adding Control Points

To start the Georeferencing process you will need to add Control Points . These are like anchors that connect locations on the map to locations on the Major_Streets dataset. You will always add Control Points by starting with a position on the map and ending with a position on the Major_Streets dataset.

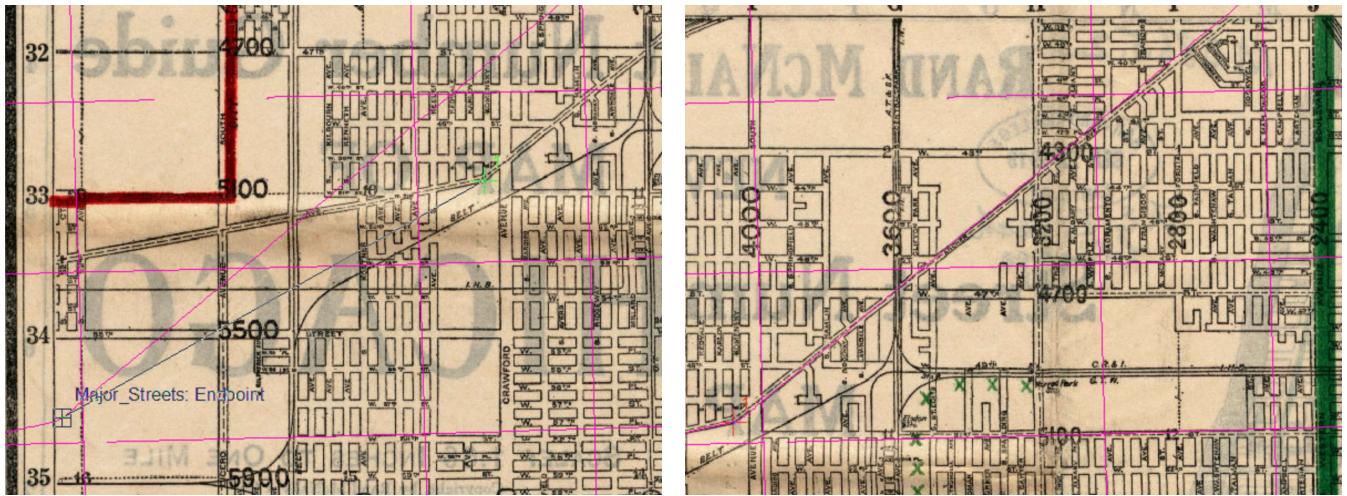
To start adding Control Points select the Control Points button on the Georeferencing toolbar. It looks like a green X and an arrow pointing to a red X .



Adding the First Control Point

Now you can start adding **Control Points**. I started with Archer Street because the bend that the street makes is easy to find. Zoom in so that you can easily see street names and streets on the map. In this example the locations are close together because I started from displaying the map close to its actual location.

- Locate the bend of Archer Street on both the Chicago map and the **Major_Streets** dataset. Use the **Identify** tool to make sure you have found Archer Street on the **Major_Streets** dataset.
- With the **Control Points** button selected, click on the reference point (the bend of Archer Street) **on the Chicago Map**. You will see a green cross with a number 1 at that point and as you move your mouse you will see a line connecting the green cross with your mouse position.
- Next click on the bend of Archer Street **on the Major_Streets dataset**. Because this is the first control point, the Chicago map will shift so that the two points are in the same place so you will then see a red cross with a number 1 at that point and the streets will start to align with the Chicago map.



Adding the Second Control Point