



L'Anse Sanborn Maps

style guide

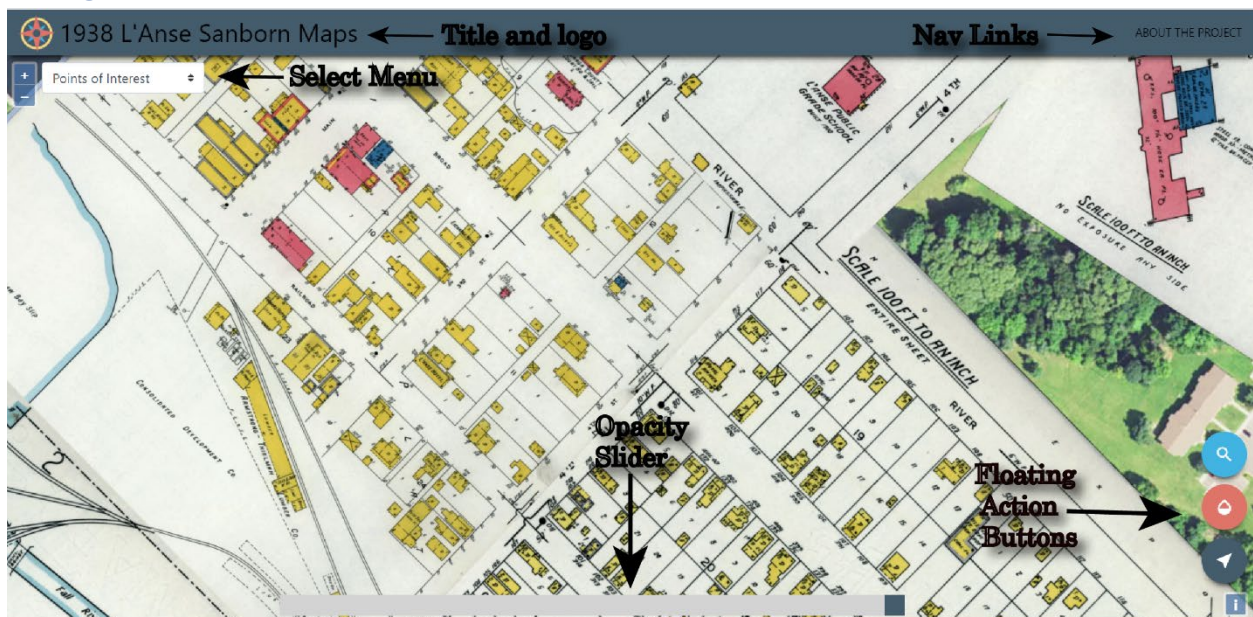
Site Administration/Management Policies

The L'Anse Sanborn Maps website should be updated periodically to the newest version of OpenLayers API and Bootstrap. New Sanborn maps from the years 1893, 1900, 1914, and 1922. Instructions and procedures for georeferencing, mosaicking, and adding these Sanborn maps to the application can be found in the Development Section on this document.

Pushing to Github

Whenever changes are made to the code of the website the changes should be well documented on the Github repository. A summary and brief description should be added explaining the changes that were made to the code and the logic behind those changes. All code should be well commented explaining what each newly written section of code accomplishes.

Design Standards



Identity and Branding Requirements

The logo of L'Anse Sanborn Maps may not be edited in any way except for in size. The standard size logo on the website is 45 pixels in width by 45 pixels in height.

Global Page Elements & Linking

The application consists of one main link on the navigation bar for the 'About this Project' section. If any additional links are to be added to the navigation, bar they should adhere to the following CSS guidelines:

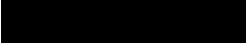




- The font-size should be 10px;
- The font color should be black [rgba(0,0,0)]
- The font should be Roboto
- Links should be displayed on the right-side of the navbar

Any new floating action buttons that are added to the application should appear on the right bottom corner of the screen in line with the existing buttons. These floating action buttons must be added using Bootstrap Materialize. Any new button should be yellow in color [rgba(251,217,132)]. Icons for this new button must be selected from the Material Icons list and be white [rgba(255,255,255)] in color.

Any new dropdown menus that are added to the website must be positioned under the navigation bar and to the right side of the map's zoom controls.

Visual design standards

The official colors for L'Anse Sanborn maps are listed in the chart below. These colors must be the only colors used in the application.

Color	R	G	B	HEX
	0	0	0	#000000
	73	105	124	#49697C
	223	116	105	#DF7469
	65	179	226	#41B3E2
	251	217	132	#FBD984

Any new images that are added to the application should use the '.responsive' class for a responsive design across devices.

Responsive class existing code:

```
.responsive {  
  width: 100%;
```

```
height: auto;  
}
```

Technical/Development

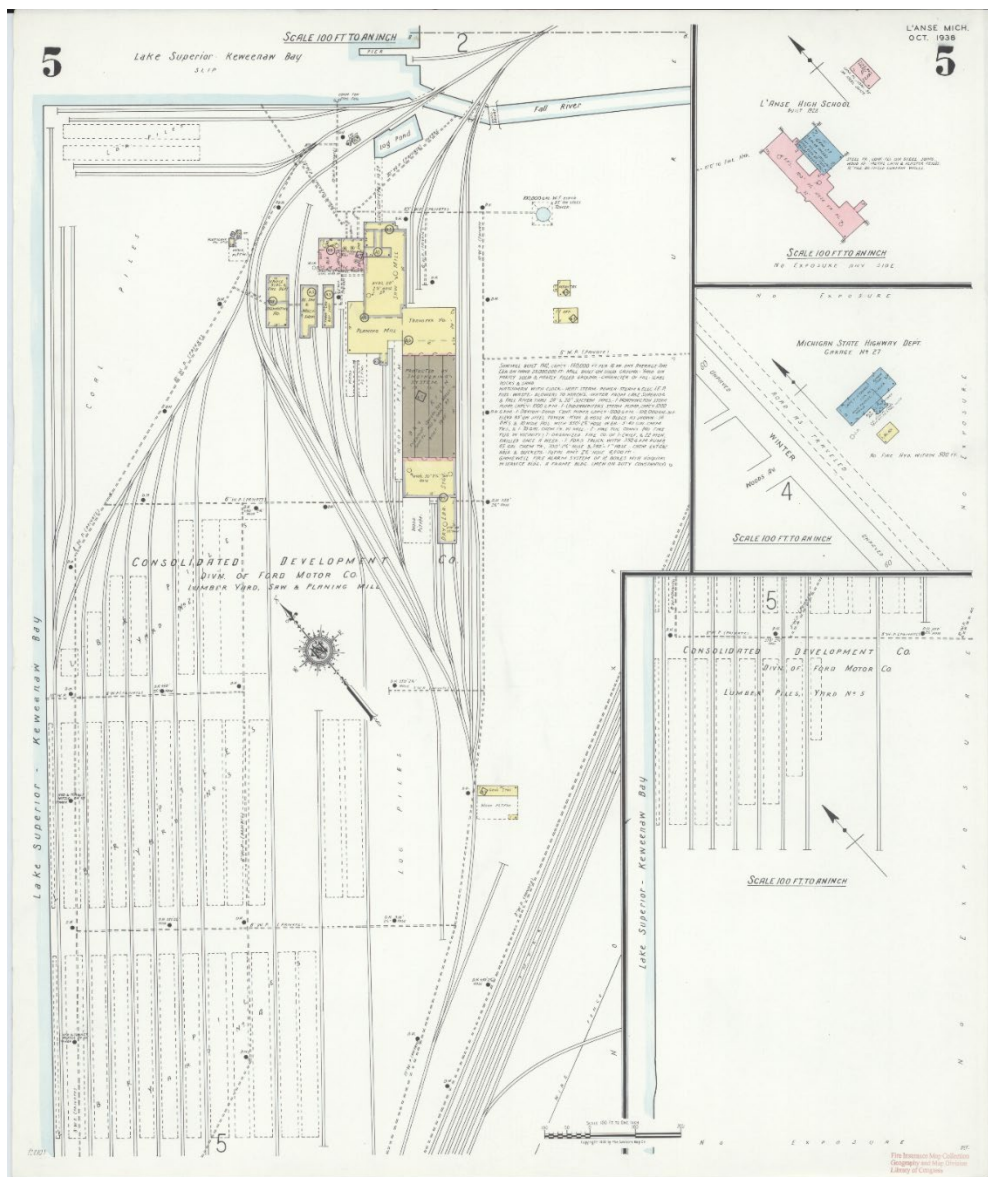
Adding new Sanborn Sheets

L'Anse Sanborn map sheets can be downloaded at the Library of Congress website. The sheets must be downloaded in .TIFF file format. The process for creating a map tileset from the Sanborn map sheet tiff images is as follows:

1. If the sheet has inset sheets or multiple sheets within one image, crop out each individual sheet using software such as Adobe Photoshop and save them as separate TIFF files.
2. Each sheet should be individually georeferenced in GIS software such as ArcGIS Pro or QGIS.
3. Assign the coordinate system of WGS 84 Web Mercator to each sheet during georeferencing.
4. Use a tool such as 'Mosaic to new raster' to stitch the sheets together.
5. Export the mosaic as a .TIFF with JPEG compression.
6. Upload the new .TIFF to Mapbox Studio as a tileset.

File Naming Conventions

All georeferenced tiff files should be named by first using the year of the Sanborn sheet followed by the sheet number. For example 1922_Sheet1.tif. The sheet number can most often be found in the upper-right hand corner of the image.



(Figure 1: Example Sanborn Map with 3 inset sheets)

Some sheets contain several sheet or inset sheets (Figure 1 Above). In this case the files should be labeled ending with A,B,C,D, etc. depending on how many sheets there are. So for example if a sheet had two inset sheets, the file name of the largest or main map image would be Year_Sheet#_A.tif, the first inset sheet would be named Year_Sheet#_B.tif, and the second inset sheet would be named Year_Sheet#_C.tif.

Mapbox Tileset URL

For this project our georeferenced rasters are hosted on Mapbox Studio. We use Mapbox because it has a generous amount of free storage. The images should be uploaded as 'Tilesets' in Mapbox studio.

Mapbox will automatically assign the image a Tileset ID. This tileset ID is then used in a Tile URL to use in our mapping application. The URL is as follows:

https://api.mapbox.com/v4/tilesheet_ID/{z}/{x}/{y}@2x.png

The 'tilesheet_ID' in the url must be replaced with the Tileset ID of the image uploaded to mapbox and then placed into the web application.

Adding New Items to the Select Menu

In the event that new points of interest are to be added to the dropdown select menu, the items must be added to the index.html page by including the name of the Point of Interest and the value within the **<select class="custom-select">** element. For example: **<option value="court">Baraga County Court House</option>**

The JavaScript file index.js must also be edited to include the latitude and longitude of the point of interest. The **custom-select change event** must be edited. For example:

```
view.setCenter(fromLonLat([-88.44941245354919, 46.75749572656625]));
```

Full Code example:

```
$( ".custom-select" ).change(function(evt) {  
  if (evt.target.value === "lhs") {  
    view.setCenter(fromLonLat([-88.44941245354919, 46.75749572656625]));  
    view.setZoom(18);  
  } else if (evt.target.value === "New Poi") {  
    view.setCenter(fromLonLat([-88.44941245354919, 46.75749572656625]));  
    view.setZoom(18);  
  }  
});
```