

# CITY OF AUBURN STATE OF ALABAMA

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February 19, 2019

**FROM:** DESIGN TEAM

**TO:** Dr. Jeffrey LaMondia, City Engineer.

**CITY:** Auburn, AL.

**Subject:** Obstacles of the expansion of Glenn Avenue between Thomas St & Wright St.

The present memo is to inform you about the project of expansion of Glenn Av. between Thomas St & Wright St. The following will give you a better idea about the process so far:

## **PURPOSE:**

The purpose of this map is to identify all those non-structural obstacles with which a road expansion process can be found. Some examples of these obstacles are trees, light poles, electric poles, bike racks and benches.

## **METHODS:**

The method used for the development of the map was, using a Garmin Etrex 10 Handheld device, waypoints are collected from obstacles that should be removed in order to complete the roadway expansion needed in this segment of the road. A team of three people oversaw the process of collecting, labeling and recording the information. These data were inserted into the ArcGIS software, in order to add the data to the file containing the road information, the plots and the structures of the city of Auburn.

## **FINDINGS:**

To carry out the analysis of what would be the obstacles that would really affect the development of the application of the road, two regions were created in the map presented attached to this memo. The first with a distance to the central axis of 12 ft and the second of 30 ft. As we can see only four of thirty-two obstacles (12.5%) are within the range of 12 ft. And twenty-one within the range of 30 ft (66%). With that being said, if the project seeks to expand in this range, the designer must take into account within his budget the relocation of 7 trees, 10 electric poles, 2 racks for bicycles, 2 benches and 1 light pole. Additionally, within the section to be intervened a construction is being carried out in the plot shown on the map, so it is important that the designer and the contractors know this outcome should they be executed simultaneously.

## **LIMITATIONS:**

None to report.

## **SOURCES**

The following is the list of sources used for the development of the project:

City of Auburn, AL.