

Design / Build Services for West Avenue Improvements Phase II North of 14th Street; 2016-090-KB

1671 West Avenue Stormwater Treatment System

First Submittal

June 14, 2021

Scope of Work:

The West Avenue improvements project is a capital improvement investment to primarily improve the stormwater collection system within the West Avenue Basin and the use of the right of way. Additional improvements include upgrades to the water and sanitary sewer system.

The stormwater collection system improvements will reduce flooding in the area and improve the health and safety of the residents.

- Drainage improvements to meet the 10-year storm event criteria;
- Installation of new collection structures (catch basins and curb inlets; underground units);
- Installation of larger diameter conveyance pipes;
- Installation of 15 water quality wells to capture pollutants prior to entering a water body;
- Installation of a 120,000 GPM stormwater treatment system to discharge the treated stormwater into the Collins Canal;

Improving the use of the right of way by improving the cross-sectional use of the area. This will improve multimodal connectivity (vehicular, bicycle, and pedestrian movement), and it will enhance the visual appeal of the area.

- New cross section for West Avenue from 8th Street to Lincoln Road;
- New cross section for Bay Road from 14th Street to Lincoln Road;
- Dedicated bike lanes;
- New landscaping;
- New lighting;
- Removing encroachments and recapturing right of way;
- Improving pedestrian mobility by widening sidewalks;

The stormwater treatment system will be installed underground at 1671 West Avenue, which is a municipal parking lot. The system will require above ground control panels, an emergency generator, and an FPL vault to provide dedicated power to the system. The parking lot will be restored to maximize public parking while maintaining access for maintenance of the system.