Report to Council of Non-Bid Public Works Construction Project Completed Using City Staff

Project: Waterways 2024 – Chester Dr

Date: 11/14/2024

Agency: Engineering

Final Cost: $68,004.54

Background

Chester Dr has a low point at the end of the cul-de-sac and the existing sewer did not have the capacity to sufficiently convey runoff. The area had been affected by ponding water, local flooding, and could not effectively direct surface overflows through the easement to the adjacent greenway. The flood mitigation waterways project included installing inlets with the ability to accept and convey a higher volume of runoff with pipe upsized to match the increase flow capacity. Grading was also modified to remove the high point within the easement.

This report is intended to inform the Mayor and Common Council and to satisfy the requirements of Wisconsin Statute 62.15(14).

Scope of Work

The existing storm sewer inlets, pipe main, apron end, and flume were removed and replaced with terrace inlets, curb inlets, larger diameter elliptical sewer pipe main, and turf reinforcement material. Private utilities were lowered and the Water Utility hydrant was relocated to allow for the installation of the new storm sewer pipe. Engineering and Engineering Operations staff collaborated on the storm sewer plan design, which required multiple iterations to accommodate adjustments necessary to clear utility conflicts.

Recycling and Waste Disposal

Concrete curb & gutter, structures, and pipe, as well as asphalt were recycled. Structure castings were salvaged by Engineering Operations. Excavated material was reused and replaced on site.

Cost Detail

Final project cost was $68,004.54. Line items costs are provided below.

ITEM	COST
Wages and Benefits	$ 28,161.39
Equipment	$ 21,083.47
Purchased Services	
Materials and Supplies	$ 18,759.68
TOTAL	**$ 68,004.54**

Cost Analysis

This project site was selected for improvements based on flood mitigation studies and resident concerns. Previous site improvements had included adjusting the location of inlets and regrading curb & gutter, but the repairs had not sufficiently mitigated the issue. The flood mitigation studies of the area provided more accurate analysis of the volume of runoff at the location and helped determine the sizing of the sewer. Engineering Operations staff investigated the area, located the utilities, coordinated the adjustment of utilities, and provided better guidance for the constructability of the design.

A Public Works contract issued for bids would have been budgeted in the range of $79,000 - $91,000 for the scope of work, coordination, design, and inspection necessary for this project. City Engineering will continue work to address sites identified as priorities by the flood mitigation studies. This project provided an opportunity for Storm Designers to work with Operations staff and identify site-specific concerns, constructability issues, and best practices for design. The collaboration, coordination, and situational feedback will help to improve designs for larger Public Works utility projects.