

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

Project: Red Sky Dr Flood Mitigation – 2024
Date: 11/24/2025
Agency: Engineering
Final Cost: \$61,907.29

Background

Red Sky Dr storm sewer collection was improved with a 2024 Flood Mitigation project. City of Madison-owned public sewer installed within an easement between the lots of 9706 and 9170 Red Sky Dr has been documented to show multiple instances where storm overflows cause ponded water, erosive flows, and flooding concerns. The public storm pipe provided insufficient capacity and improvements with surface collection were critical to mitigate overflows through the easement, between the lots, and across the public sidewalk.

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

Engineering and Engineering Operations coordinated with the adjacent residents to develop a plan and schedule for storm sewer improvements. The initial steps included coordination for the removal and relocation of the streetlight and pole. Engineering Operations completed the removal of existing storm sewer, sidewalk, and pavement, then installed the new storm sewer. Storm was upsized to 24" concrete sewer pipe, and the sewer structures were upsized and designed to collect more surface and street runoff while also mitigating clogging from leaves and debris. The new sewer provides improved collection and conveyance. Taps and connections were provided to connect the adjacent owners gutter downspouts to help reduce surface drainage near the foundation of the houses. The easement, terrace, sidewalk, and pavement were repaired.

Recycling and Waste Disposal

Engineering Operations recycles asphalt and concrete materials. Fill from the project area is reused on site.

Cost Detail

Final project cost was \$61,907.29. Line items costs are provided below.

ITEM	COST
<i>Wages and Benefits</i>	<i>\$37,129.72</i>
<i>Equipment</i>	<i>\$13,773.87</i>
<i>Materials and Supplies</i>	<i>\$11,003.70</i>
TOTAL	\$ 61,907.29

Cost Analysis

Engineering Operations and Engineering were able to complete the design, provide labor, equipment, material, and permitting, to complete the work necessary to improve stormwater collection in the public right of way. The public sewer improvement was identified as a high priority to address the concerns of residents in effort to mitigate flooding issues. Traffic Engineering was able to help coordinate the removal and replacement of the light pole. The residents helped with coordination to restore landscaping and provided access to the easement. Engineering Operations was able to modify the project schedule to accommodate the residents' schedule requests, the adjustment of the light pole, and the availability of materials.

This project is a good example for the benefits of completing the sewer repair with Engineering staff and equipment. The project schedule was able to be reviewed, surveyed, and completed within a short time frame. The complexity of the project was not uniquely challenging, but schedule coordination would have posed a challenge for a Public Works contract. A Public Works project issued for bids with a similar scope could range between \$85,000 to \$100,000. With Engineering Operations completing the work, we were able to reduce typical project contract costs such as mobilization, traffic control, erosion control, subcontracted work, and procurement of materials.