

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

**Project:** Edna Taylor Conservation Park CMP & Culvert Replacement

**Date:** 2/25/2021

**Agency:** Engineering

**Final Cost:** \$122,529.82

## Background

Pipes and culverts located within Edna Taylor Conservation Park constructed with corrugated metal pipe (CMP) had started to deteriorate due to corrosion. Multiple culverts connecting adjacent ponds were crushed by the loading of maintenance vehicles. The CMP was replaced with round and elliptical concrete pipe (RCP & HERCP). Vegetation management of Edna Taylor Conservation Park uses prescribed burning and the concrete pipe is best suited for the high temperatures and can better withstand loading of maintenance vehicles.

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

All corrugate metal culverts and pipes were removed. Approximately 370 linear feet (LF) of 24" x 38" elliptical pipe, 53 LF of 12" RCP, 72 LF of 15" RCP, 10 pipe ends (apron end) with gates, two 5'x5' storm structures, one 6'x6' storm structure, and restoration was required to complete the work. Work was completed over an extended period of time complete the work. Care was taken to minimize the impact on the conservation park and firm ground was critical to help minimize damage by construction vehicles.

## Recycling and Waste Disposal

Organic material was replaced as backfill and for restoration. Corrugated metal pipe and concrete structures were recycled.

## Cost Detail

Final project cost was \$122,529.82. Line items costs are provided below.

ITEM	COST
<b>Wages and Benefits</b>	\$ 51,753.96
<b>Equipment</b>	\$ 43,314.28
<b>Materials and Supplies</b>	\$ 27,461.58
<b>TOTAL</b>	<b>\$ 122,529.82</b>

## Conclusion

By completing the work with City Engineering Operations staff we were able to allow additional time for procurement, mobilization, construction and restoration to minimize the ecological impact of the conservation park, as well, as restoration management costs. Our crews were able to complete construction throughout the year at times when the weather conditions provided the best access for heavy equipment. Based on average contract costs for materials, the equivalent work would be approximately \$126,183 if completed via public contract.