**Project Number:** SW037 **Asset Type:** Stormwater Management

Project Title: Corrugated Metal Pipes (CMP) Repair & Replacement Program CIP Status: New

Department Name: Public Works Project Category: Capital Maintenance Sector:

# **Project Purpose:**

This is a multiyear program that will identify and prioritize all the CMP within the City in order to replace or repair them.

### **Project Narrative:**

This project seeks to determine the condition and solutions to maintaining all the City's CMP pipe within its stormwater infrastructure. There are twelve & a half miles of existing CMPs at 778 different locations, averaging over 30 years old and ranging from 10 to 60 inches in diameter. With CIP funds being limited, having a 10 year maintenance plan for repairs and replacements enables the City to budget these costs annually, minimizing emergency repairs and high replacement costs. In 2018, an engineering firm located and did a quick assessment of these pipes due to a high amount of sink holes reported around the City. The findings show that the vast majority of them need replacement or repair and have been the main causes of sinkholes in our Right of Ways and near detention areas. In 2019, all the CMPs were evaluated and prioritized for restoration. Improvements were made to the Oleson and Hobson Mill culverts. In 2020, the Book Road culvert will be repaired.

# External Funding Sources Available:

#### Projected Timetable:

- 2019 A detailed plan developed to repair/replace the rest of the CMPs over a ten year period. Olesen and Hobson Mill repaired.
- 2020- Repair of Book Rd Culvert
- 2021 Repair and Replacement of CMPs per the plan developed, including the culvert on Gartner and Edgewater.

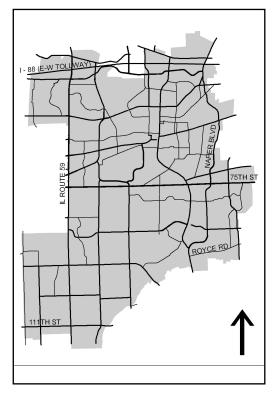
# Impact on Operating Budget:

## **Funding Source Summary**

| Funding Source      | 2020    | 2021    | 2022    | 2023    | 2024    | <b>Total Source</b> |
|---------------------|---------|---------|---------|---------|---------|---------------------|
| Home Rule Sales Tax | 180,000 | 180,000 | 180,000 | 180,000 | 180,000 | 900,000             |
| Unfunded Capital    | 0       | 3,600   | 7,272   | 11,017  | 14,838  | 36,727              |
| Totals              | 180,000 | 183,600 | 187,272 | 191,017 | 194,838 | 936,727             |

#### **Project Cost Summary**

| Expense Category      | 2019<br>Budget | 2020    | 2021    | 2022    | 2023    | 2024    | Total CIP |
|-----------------------|----------------|---------|---------|---------|---------|---------|-----------|
| Construction          | 150,000        | 150,000 | 153,000 | 156,060 | 159,181 | 162,365 | 780,606   |
| Professional Services | 30,000         | 30,000  | 30,600  | 31,212  | 31,836  | 32,473  | 156,121   |
| Totals                | 180,000        | 180,000 | 183,600 | 187,272 | 191,017 | 194,838 | 936,727   |



**Budget Year:** 

Category Code: A

2020