



500 West Big Beaver  
Troy, MI 48084  
troymi.gov



## CITY COUNCIL AGENDA ITEM

Date: March 6, 2025

To: Frank Nastasi, City Manager

From: Robert J. Bruner, Deputy City Manager  
Robert C. Maleszyk, Chief Financial Officer  
Kyle A. Vieth, Controller  
Kurt Bovensiep, Public Works Director  
G. Scott Finlay, City Engineer/Traffic Engineer

Subject: Authorization for Grant Submittal – Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA),

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### **History**

In October 2024, a Notice of Intent (NOI) was submitted to the Michigan State Police, Emergency Management and Homeland Security Division (MSP/EMHSD) for an extension on the Lane Drain to mitigate the flooding associated with the increase in storm intensities that Troy has experienced over the last several years.

Hazard mitigation activities are intended to reduce or eliminate future property damages and loss of life from natural hazards, such as floods, tornadoes, and storms. The FEMA BRIC and FMA programs provide funds for hazard mitigation planning activities and the implementation of mitigation projects. Based on past funding cycles of the programs, FEMA's general priorities for the programs are as follows:

#### Building Resilient Infrastructure and Communities (BRIC) Priorities:

- Projects that incentivize natural hazard risk reduction activities that mitigate risk to public infrastructure and disadvantaged communities.
- Projects that incorporate nature-based solutions.
- Projects that enhance climate resilience and adaptation.

#### Flood Mitigation Assistance (FMA) Priorities:

- Project Scoping activities to develop community and individual flood mitigation projects.
- Projects that address community flood risk to reduce National Flood Insurance Program (NFIP) flood claim payments.
- Projects that mitigate the risk of flooding to individual NFIP insured structures.

The preliminary plan and cost estimate prepared by Hubble Roth & Clark, Inc., and reviewed by City Staff for the pursuit of FEMA Funding are attached.

### **Financial**

The FEMA Program requires a 25% match from the submitting agency. Currently, there is no requirement to obligate the necessary funds. City Staff will include funding during the appropriate budget year. Based on the NOI cost estimate, \$1,200,000 is the total cost, and the City's share would be \$300,000.

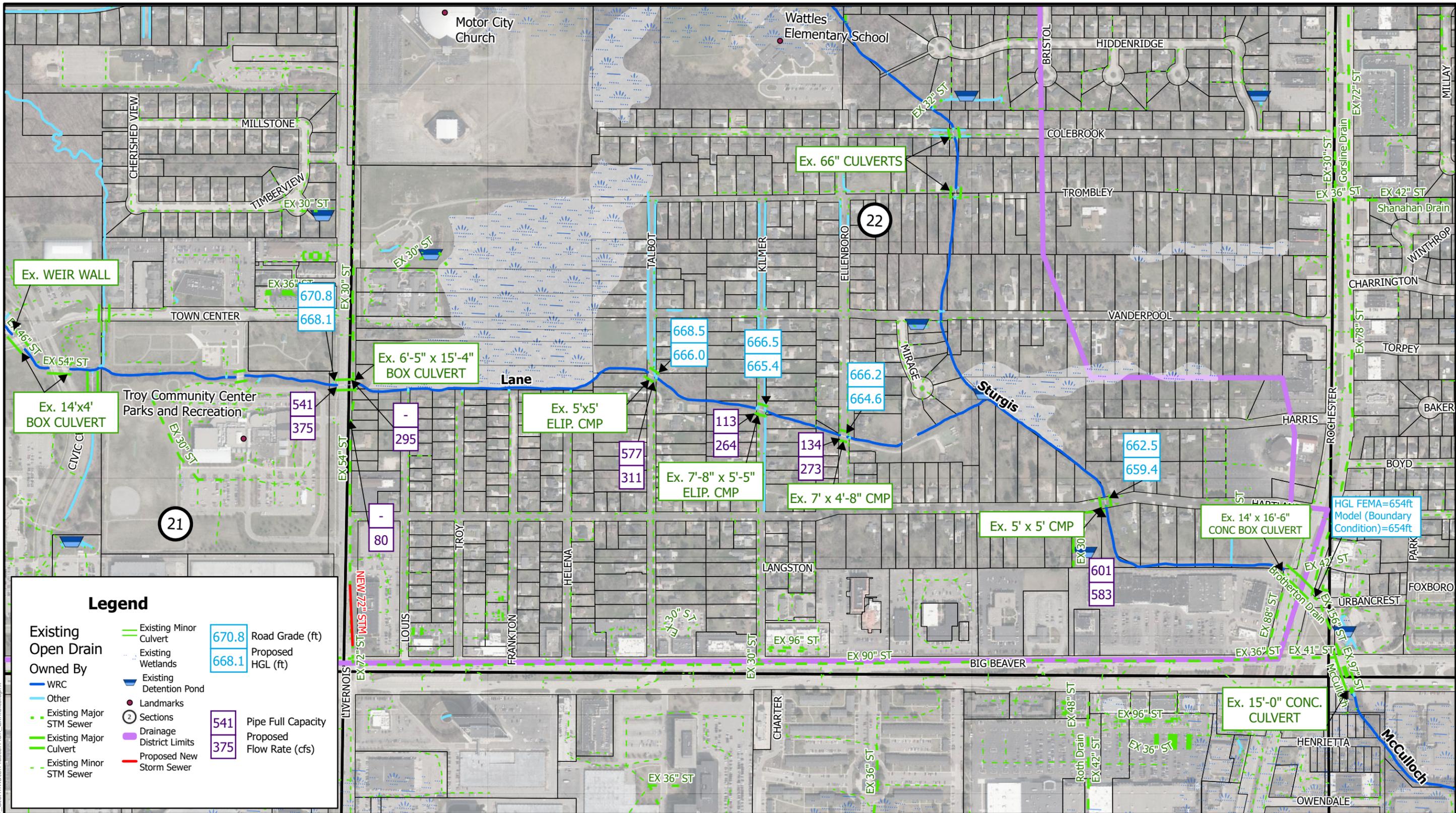


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## **CITY COUNCIL AGENDA ITEM**

### **Recommendation**

City Staff recommends the authorization to submit a grant application through the Michigan State Police, Emergency Management to pursue funding for the extension of the Lane Drain at an estimated cost of \$1,200,000, of which the City of Troy will be responsible for 25% or \$300,000..



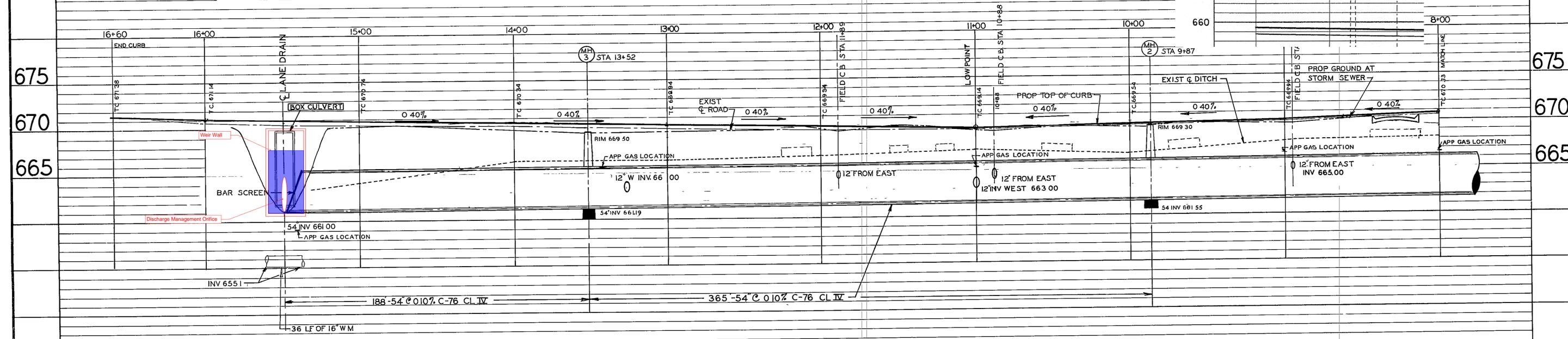
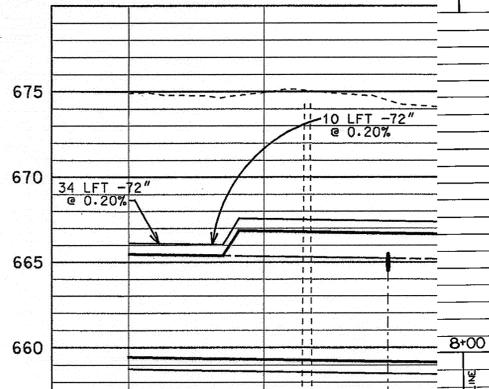
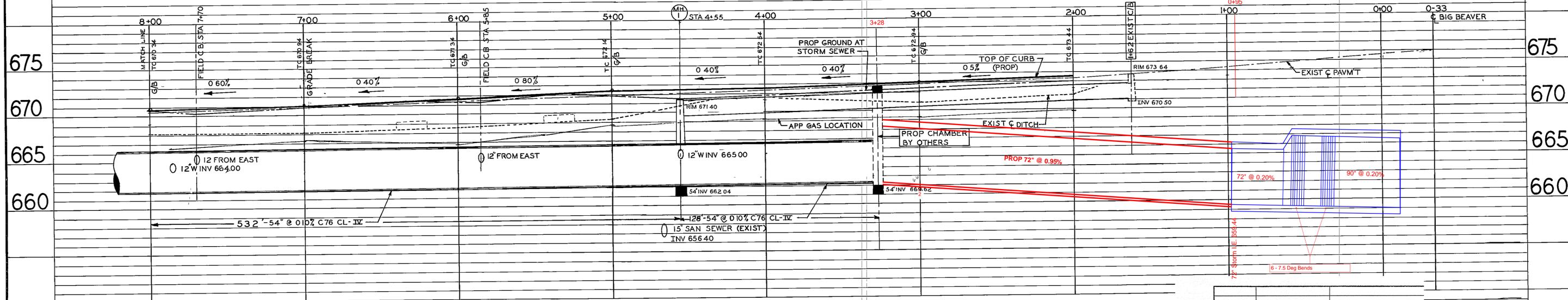
ALTERNATE 1: Lane Drain Extension, Utilizing Existing 54-inch Pipe Along Livernois Road

Total Drainage District Area = 1422 acres  
Priority Rating: 1



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**CITY OF TROY**  
OAKLAND COUNTY, MICHIGAN

LIVERNOIS PAVING FROM  
BIG BEAVER TO LANE DRAIN  
PROFILES

SCALE	DRAWN BY	CHECKED	BOOK
HOR 1" = 30'	NAME REB	NAME	PAGE
VERT 1" = 5'	DATE 3-15-74	DATE	FILE
SHEET 3 OF 6	JOB NO 72 2015	FILE	
CITY ENGINEER			

21-30

15923 21,22

**ENGINEER'S OPINION OF PROBABLE PROJECT COST - TABLE I-1**

<b>PROJECT:</b> CITY OF TROY 2024 MASTER STORM DRAINAGE PLAN UPDATE	<b>DATE:</b> 1/20/2025
<b>LOCATION:</b> SECTIONS 21 & 22 - LANE DRAIN BRANCH DRAINAGE IMPROVEMENTS	<b>PROJECT NO.:</b> 20210998
<b>BASIS FOR ESTIMATE:</b> [X] CONCEPTUAL [ ] PRELIMINARY [ ] FINAL	<b>CURRENT ENR (CCI):</b> 13632
<b>NAME:</b> ALTERNATIVE NO. 1A - Drain Extension, Utilizing Existing 54-inch Storm Pipe Along Livernois Road	<b>ESTIMATOR:</b> NES
	<b>CHECKED BY:</b> BWS

**SCOPE:** Connecting the Lane to the 90-inch Big Beaver Road pipe via +/- 350 linear feet of enclosed pipe, as well as construction of a flow diversion chamber. Near Livernois and Big Beaver Roads.

DESCRIPTION	QUANT.	UNIT	UNIT PRICE	TOTAL
72" Storm Sewer	350	lft	\$ 900.00	\$ 315,000.00
9' Dia Manhole	1	ea	\$ 17,500.00	\$ 17,500.00
Outlet Structure	1	ea	\$ 75,000.00	\$ 75,000.00
Flow Diversion Chamber	1	ea	\$ 250,000.00	\$ 250,000.00
Site Restoration	1,340	syd	\$ 20.00	\$ 26,800.00

Subtotal Construction Costs	\$ 685,000.00
Contingency (35%)	\$ 240,000.00
Administration, Engineering, Legal (20%)	\$ 185,000.00
<b>Total Project Cost</b>	<b>\$ 1,110,000.00</b>

**Notes and Assumptions**

- Does not include Permitting or Easement Acquisition Costs
- Lane Drain Open Channel Improvements completed upstream of Livernois are sufficient for future City storm water management planning