NOTICE OF MEETINGS DRAINAGE BOARD FOR THE FOLLOWING DRAINS:

- 1. Evergreen-Farmington Sanitary Sewer Drain
- 2. Acacia Park CSO Drain
- Birmingham CSO Drain 3.
- 4. Bloomfield Village CSO Drain
- George W. Kuhn Drain 5.
- Clinton River Water Resource Recovery Facility 6.
- Bloomfield Township CSO Drain 7.
- 8. **Edwards Relief Drain**
- 9. Twelve Towns Relief Drain
- Nichols Drain 10.
- Robert A. Reid Drain 11.
- 12. Blue Heron Drain
- Donohue Drain 13.
- Hayes Drain 14.
- Korzon Drain 15.
- Mullen Drain 16.
- 17. **Powers Drain**

NOTICE IS HEREBY GIVEN THAT MEETINGS OF THE DRAINAGE BOARD FOR THE ABOVE-MENTIONED DRAINS WILL COMMENCE IN THE OAKLAND COUNTY PUBLIC WORKS BUILDING, ONE PUBLIC WORKS DRIVE, WATERFORD, MICHIGAN, AND VIA MICROSOFT TEAMS AT 2 P.M., ON TUESDAY, APRIL 23, 2024, TO CONDUCT NECESSARY AND APPROPRIATE BUSINESS OF THE DRAINAGE BOARDS. THOSE WHO WISH TO PARTICIPATE REMOTELY MAY FOLLOW THE INSTRUCTIONS ATTACHED TO THIS NOTICE. ALL BOARD MEMBERS WILL BE PARTICIPATING IN-PERSON.

DURING THE MEETING, THERE WILL BE AN AGENDA ITEM FOR PUBLIC COMMENT, DURING WHICH THE PUBLIC MAY PROVIDE INPUT OR ASK QUESTIONS OF THE BOARD. IN THE EVENT A MEMBER OF THE PUBLIC WOULD LIKE TO SUBMIT THEIR INPUT OR QUESTIONS TO BE READ AT THE MEETING BY THE BOARD CHAIRPERSON, PLEASE PROVIDE THE INPUT OR QUESTIONS IN WRITING TO STEPHANIE LAJDZIAK AT LAJDZIAKS@OAKGOV.COM. PERSONS WITH DISABILITIES WHO NEED ASSISTANCE PARTICIPATING IN THE MEETING SHOULD CONTACT STEPHANIE LAJDZIAK AT LAJDZIAKS@OAKGOV.COM.

JIM NASH

Oakland County Water Resources Commissioner

Telephone: 248-858-0958

Posted by: April 17, 2024

Microsoft Teams meeting

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Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

1. Evergreen-Farmington Sanitary Drain

AGENDA

DRAINAGE BOARD FOR THE EVERGREEN-FARMINGTON SANITARY DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of March 26, 2024
- 3. Public Comments
- 4. Meadowbrook Insurance Renewal Proposal for the 24-25 Insurance Program
- 5. Present Memorandum from Gary Nigro, P.E., Manager, dated April 23, 2024, requesting the Board approve the proposed operating budget and sewer charges, cost allocation, and the Capital Improvement Program for the rate year beginning July 1, 2024
- 6. Present Memorandum from Philip Kerby, P.E., Operations Engineer, dated April 23, 2024, requesting the Board add the Sanitary Sewer Rehabilitation project at Quarton Lake in the City of Birmingham to the capital improvement plan with a design budget of \$48,000 and award the engineering services contract to Hubbell, Roth & Clark, Inc. in the amount of \$42,000
- 7. Present Engineering Work Order for Applied Science, Inc., for the development of estimated lateral flow rates on the Southfield Sewer Lining Project in the amount of \$8,100
- 8. Present Change Order No. 9 for Walsh Construction for the 8 Mile Road Pump Station & SSO Chamber Improvements Phase 1 for a net increase in the amount of \$219,478.08
- 9. Present Construction Estimate No. 25 for Walsh Construction Company II, LLC for the 8 Mile Road Pump Station & SSO Chamber Improvements Phase 1 in the amount of \$2,253,985 with a transfer to the Oakland County Treasurer in the amount of \$250,442.78
- 10. Present Construction Estimate No. 7 for Dan's Excavating for Construction of the 8 Mile Road Corrective Action Plan Phase 2 in the amount of \$1,478,773.91 with a transfer to the Oakland County Treasurer in the amount of \$8,697.05
- 11. Present Construction Estimate No. 6 for Midwest Power Systems for Construction of the Lathrup Sanitary Retention Tank Improvements in the amount of \$83,500
- 12. Present request for Board approval of payment of invoices from the Evergreen Farmington Sanitary Drain in the amount of \$384,611.99
- 13. Other business
- 14. Approve pro rata payment to Drainage Board members
- 15. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE EVERGREEN -FARMINGTON SANITARY DRAIN

March 26, 2024

A meeting of the Drainage Board for the Evergreen-Farmington Sanitary Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 26th day of March 2024.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held February 27, 2024, were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2 Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A memorandum from Meg Koss, Senior Attorney, dated March 26, 2024, requesting the Board extend the current contract with Young Insurance Law for two years from the date of expiration of the current contact from May 31, 2024 to May 31, 2026 and authorize the Chairperson to execute any documents necessary to effectuate the extension was presented. It was moved by Markham, supported by Nash, to extend the current contract with Young Insurance Law for two years from the date of expiration of the current contact from May 31, 2024 to May 31, 2026 and authorize the Chairperson to execute any documents necessary to effectuate the extension as presented.

ADOPTED: Yeas - 2 Navs - 0

A memorandum from Lawrence Young, Civil Engineer, dated March 26, 2024, requesting the Board to approve the Drainage District's Meter Based Billing Project for \$57,000 and award OHM Advisors with a not-to-exceed amount of \$47,000 was presented. It was moved by Markham, supported by Nash, to approve the Drainage District's Meter Based Billing Project for \$57,000 and award OHM Advisors with a not-to-exceed amount of \$47,000 as presented.

ADOPTED: Yeas - 2 Nays - 0 A resolution adopting a final project planning document for the Walnut Lake Pump Station No.1 Corrective Action Plan designating an authorized project representative was presented. It was moved by Markham, supported by Nash, to adopt the resolution for a final project planning document for the Walnut Lake Pump Station No.1 Corrective Action Plan designating an authorized project representative as presented.

ADOPTED: Yeas - 2 Nays - 0

Construction Estimate No. 24 for Walsh Construction Company II, LLC for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$539,783.12 with a transfer to the Oakland County Treasurer in the amount of \$59,975.90 was presented. It was moved by Markham, supported by Nash, to approve Construction Estimate No. 24 for Walsh Construction Company II, LLC for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$539,783.12 with a transfer to the Oakland County Treasurer in the amount of \$59,975.90 as presented.

ADOPTED: Yeas - 2 Nays - 0

Construction Estimate No. 6 for Dan's Excavating for Construction of the 8 Mile Road Corrective Action Plan – Phase 2 in the amount of \$1,519,503.19 with a transfer to the Oakland County Treasurer in the amount of \$168,833.69 was presented. It was moved by Markham, supported by Nash, to approve Construction Estimate No. 6 for Dan's Excavating for Construction of the 8 Mile Road Corrective Action Plan – Phase 2 in the amount of \$1,519,503.19 with a transfer to the Oakland County Treasurer in the amount of \$168,833.69 as presented.

ADOPTED: Yeas - 2 Nays - 0

Construction Estimate No. 5 for Midwest Power Systems for Construction of the Lathrup Sanitary Retention Tank Improvements in the amount of \$448,727.27 was presented. It was moved by Markham, supported by Nash, to approve Construction Estimate No. 5 for Midwest Power Systems for Construction of the Lathrup Sanitary Retention Tank Improvements in the amount of \$448,727.27 as presented.

ADOPTED: Yeas - 2 Navs - 0

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$362,196.83 (as attached) was presented. It was moved by Markham, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$362,196.83.

ADOPTED: Yeas - 2 Nays - 0 It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2 Nays - 0

There being no further business, the meeting was adjourned.

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Evergreen-Farmington Sanitary Drain, Oakland County, Michigan, held on the 26th day of March 2024, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Evergreen-Farmington Sanitary Drain Drainage District.

Jim Nash, Chairperson

Dated: March 26, 2024



Evergreen-Farmington Sanitary Drain Drainage District

Building 95 West, One Public Works Drive, Waterford, MI 48328

Insurance Proposal for Property, General Liability, Excess Liability, and Pollution Liability Coverage

4/27/2024 to 4/27/2025

(Dated 4/18/24)



Evergreen-Farmington Sanitary Drain Drainage District

Executive Summary 4/27/2024 to 4/27/2025

Insurance Renewal Summary

We have completed the renewal process for the operational insurance program renewing April 27th, 2024. The hardening marketplace continues to be a major challenge through most lines of coverage, with carriers reducing capacity, increasing rates and in some cases, withdrawing from certain segments of the market altogether. Our objective is always to provide the broadest coverage at the most competitive pricing.

From the table below, the <u>total</u> renewal premium for the April insurance policies will increase from \$747,815 to \$789,169 (+5.52% total). Some notable points regarding the marketing of the 2024 insurance renewals are:

- Property Coverage: In a very tight marketplace for underground property insurance Chubb continues to be the industry leader. We approached Chubb early in the process and were able to negotiate a below market average rate increase for the upcoming policy term. The property premium has increased a total of 3.57% for this renewal, which includes the -0.8% Engineering News Record Construction Cost Index value adjustment, and a +4.5% property rate increase putting the total annual premium at \$294,990. Reinsurance treaties, natural and manmade disasters, and overall industry performance has resulted in average rate increases holding strong at 10%-25% on property insurance. The large cost of construction index increases have subsided resulting in a negative inflationary value adjustment this year after several years of increases in excess of 5%.
- <u>Public Entity (PE) Liability:</u> This year we secured a renewal option from Lexington, and an alternative option from Liberty Mutual on the public entity liability and excess liability policies. We were able to create competition on the excess liability policies to drive a more competitively placed excess liability tower this year. As a result, we are recommending moving to Liberty and increasing the total liability limit from \$21,000,000 to \$31,000,000 to help negate some coverage implications by moving the coverage from Lexington (outlined in comparison below). If we did not have this option from Liberty Mutual, we would be seeing an increase of more than +38% on the liability insurance and therefore a significant double digit increases on the total insurance program. The public entity marketplace continues to see considerable disruption in rate, coverage, and reduced capacity for limits, however, we were successful in countering the adverse market conditions with a strong effort to seek alternative options on your behalf.
- <u>Pollution Liability:</u> The renewal coverage was quoted through Chubb insurance at \$92,499 premium, which reflects a 4.12% increase over the expiring term. Chubb is one of the leaders in the pollution marketplace and offered a reasonable renewal at slightly below average increase.



Liability Summary - Evergreen Farmington Sanitary [

Drainage District
Updated April 18th, 2024

ge District



			Panawal Ontion #2
	Expiring Program	Renewal Option #1	Renewal Option #2 Recommended
Term	04/27/2023-2024	04/27/2024-2025	 04/27/2024-2025
i ei iii	04/27/2023-2024	04/2//2024-2023	
	Lexington	Lexington	Liberty Mutual /
Carrier	U U	(AIG)/Homesite/HDI/Ha	Homesite / StarStone /
	Ilmark	Ilmark	Vantage / Great
	Illiank	IIII GI K	American
Form Type	Occurrence	GL Occurrence	Occurrence
Primary Limit	\$1,000,000	\$1,000,000	\$1,000,000
1st Excess Limit	\$10,000,000	\$5,000,000	\$10,000,000
2nd Excess Limit	\$5,000,000	\$5,000,000	\$5,000,000
3rd Excess Limit	\$5,000,000	\$5,000,000	\$5,000,000
4th Excess Limit	N/A	\$5,000,000	\$5,000,000
5th Excess Limit	N/A	N/A	\$5,000,000
Limits	\$21,000,000 (Each	\$21,000,000 (Each	\$31,000,000 (Combined
	General Liability and	General Liability and	General Liability and
	Public Officials)	Public Officials)	Public Officials Limit)
			r abile officials Elline,
Retention	\$250,000	\$250,000	\$250,000
Primary Premium	\$129,857	\$133,025	\$87,397
1st Excess Premium			
2nd Excess Premium	\$137,906	\$141,944 \$120,000	\$59,340
	\$54,141	•	\$91,668
3rd Excess Premium	\$52,275	\$59,500 \$======	\$61,500
4th Excess Premium	N/A	\$57,500 	\$53,275 \$48,500
5th Excess Premium	N/A	/A N/A	
	4	* ·	
TPA Fee	\$1,500	\$1,500	N/A
TPA Fee Premium	\$1,500 \$375,678	\$1,500 \$513,469	N/A \$401,680
			•
Premium		\$513,469	\$401,680
Premium Percentage Change	\$375,678 GL - Outside the limit,	\$513,469 37% GL - Outside the limit,	\$401,680 7% GL - Outside the limit,
Premium Percentage Change Defense Costs	\$375,678 GL - Outside the limit, POL - Inside the limit	\$513,469 37% GL - Outside the limit, POL - Inside the limit	\$401,680 7% GL - Outside the limit, POL - Inside the limit
Premium Percentage Change Defense Costs Duty to Defend How Limits Apply Backup Exclusion - Backup or overflow of	\$375,678 GL - Outside the limit, POL - Inside the limit Right and Duty	\$513,469 37% GL - Outside the limit, POL - Inside the limit Right and Duty	\$401,680 7% GL - Outside the limit, POL - Inside the limit Right and Duty
Premium Percentage Change Defense Costs Duty to Defend How Limits Apply Backup Exclusion - Backup or overflow of any sewer line	\$375,678 GL - Outside the limit, POL - Inside the limit Right and Duty Seperate Aggregate	\$513,469 37% GL - Outside the limit, POL - Inside the limit Right and Duty Separate Aggregate	\$401,680 7% GL - Outside the limit, POL - Inside the limit Right and Duty Combined Aggregate
Premium Percentage Change Defense Costs Duty to Defend How Limits Apply Backup Exclusion - Backup or overflow of any sewer line installed, owned,	\$375,678 GL - Outside the limit, POL - Inside the limit Right and Duty	\$513,469 37% GL - Outside the limit, POL - Inside the limit Right and Duty	\$401,680 7% GL - Outside the limit, POL - Inside the limit Right and Duty
Premium Percentage Change Defense Costs Duty to Defend How Limits Apply Backup Exclusion - Backup or overflow of any sewer line	\$375,678 GL - Outside the limit, POL - Inside the limit Right and Duty Seperate Aggregate	\$513,469 37% GL - Outside the limit, POL - Inside the limit Right and Duty Separate Aggregate	\$401,680 7% GL - Outside the limit, POL - Inside the limit Right and Duty Combined Aggregate
Premium Percentage Change Defense Costs Duty to Defend How Limits Apply Backup Exclusion - Backup or overflow of any sewer line installed, owned,	\$375,678 GL - Outside the limit, POL - Inside the limit Right and Duty Seperate Aggregate	\$513,469 37% GL - Outside the limit, POL - Inside the limit Right and Duty Separate Aggregate	\$401,680 7% GL - Outside the limit, POL - Inside the limit Right and Duty Combined Aggregate
Premium Percentage Change Defense Costs Duty to Defend How Limits Apply Backup Exclusion - Backup or overflow of any sewer line installed, owned, maintained and/or serviced by you.	\$375,678 GL - Outside the limit, POL - Inside the limit Right and Duty Seperate Aggregate	\$513,469 37% GL - Outside the limit, POL - Inside the limit Right and Duty Separate Aggregate	\$401,680 7% GL - Outside the limit, POL - Inside the limit Right and Duty Combined Aggregate
Premium Percentage Change Defense Costs Duty to Defend How Limits Apply Backup Exclusion - Backup or overflow of any sewer line installed, owned, maintained and/or serviced by you. Earth Movement	\$375,678 GL - Outside the limit, POL - Inside the limit Right and Duty Seperate Aggregate Yes	\$513,469 37% GL - Outside the limit, POL - Inside the limit Right and Duty Separate Aggregate Yes	\$401,680 7% GL - Outside the limit, POL - Inside the limit Right and Duty Combined Aggregate
Premium Percentage Change Defense Costs Duty to Defend How Limits Apply Backup Exclusion - Backup or overflow of any sewer line installed, owned, maintained and/or serviced by you. Earth Movement (Subsidence) Exclusion	\$375,678 GL - Outside the limit, POL - Inside the limit Right and Duty Seperate Aggregate Yes Exclusion for Property	\$513,469 37% GL - Outside the limit, POL - Inside the limit Right and Duty Separate Aggregate Yes Exclusion for Property	\$401,680 7% GL - Outside the limit, POL - Inside the limit Right and Duty Combined Aggregate Yes
Premium Percentage Change Defense Costs Duty to Defend How Limits Apply Backup Exclusion - Backup or overflow of any sewer line installed, owned, maintained and/or serviced by you. Earth Movement (Subsidence) Exclusion - applies to Property	\$375,678 GL - Outside the limit, POL - Inside the limit Right and Duty Seperate Aggregate Yes Exclusion for Property Damage Only (no	\$513,469 37% GL - Outside the limit, POL - Inside the limit Right and Duty Separate Aggregate Yes Exclusion for Property Damage Only (no	\$401,680 7% GL - Outside the limit, POL - Inside the limit Right and Duty Combined Aggregate
Premium Percentage Change Defense Costs Duty to Defend How Limits Apply Backup Exclusion - Backup or overflow of any sewer line installed, owned, maintained and/or serviced by you. Earth Movement (Subsidence) Exclusion - applies to Property Damage liability only	\$375,678 GL - Outside the limit, POL - Inside the limit Right and Duty Seperate Aggregate Yes Exclusion for Property Damage Only (no Exclusion for Bodily	\$513,469 37% GL - Outside the limit, POL - Inside the limit Right and Duty Separate Aggregate Yes Exclusion for Property Damage Only (no Exclusion for Bodily	\$401,680 7% GL - Outside the limit, POL - Inside the limit Right and Duty Combined Aggregate Yes
Premium Percentage Change Defense Costs Duty to Defend How Limits Apply Backup Exclusion - Backup or overflow of any sewer line installed, owned, maintained and/or serviced by you. Earth Movement (Subsidence) Exclusion - applies to Property	\$375,678 GL - Outside the limit, POL - Inside the limit Right and Duty Seperate Aggregate Yes Exclusion for Property Damage Only (no	\$513,469 37% GL - Outside the limit, POL - Inside the limit Right and Duty Separate Aggregate Yes Exclusion for Property Damage Only (no	\$401,680 7% GL - Outside the limit, POL - Inside the limit Right and Duty Combined Aggregate Yes No Exclusion for Bodily Injury or Property

Evergreen-Farmington Sanitary Drain Drainage District

4/27/2024 to 4/27/2025

Premium Summary

	Expiring	Proposed	Percentage
POLICIES	2023-2024	2024-2025	Change
Property	\$284,801	\$294,990	0.8% Decrease
ACE American Ins.	TIV: \$1,857,103,747	TIV: \$1,842,246,917	in TIV due to
Co.	Rate: .01533	Rate: .01601	ENR Index
\$50M Limit			4.5% Increase
\$250k SIR			in Rate
Public Entity	\$129,857	\$87,397	32.69%
Liability	Lexington Ins. Co.	Liberty Mutual	Decrease in
Liability	\$1M Per Occurrence	\$1M Per Occurrence	Rate
	Limit	Limit	
	\$2M Aggregate Policy	\$2M Aggregate Policy	
	Limit	Limit	
	\$2M E&O Limit	\$2M E&O Limit	
	\$250k SIR	\$250k SIR	
1 st Excess Liability	\$137,905	\$59,340	56.97% Decrease
Layer \$10M X \$1M	\$10M Per Occurrence	\$10M Per Occurrence	in Rate
•	Limit	Limit	
	\$10M Aggregate Limit	\$10M Aggregate Limit	
1	Homesite Ins. Co.	Liberty Mutual	
2 nd Excess Liability	\$54,140	\$91,668	
Layer \$5M X \$10M	\$5M Per Occurrence	\$5M Per Occurrence	
	Limit	Limit	
and =	\$5M Aggregate Limit	\$5M Aggregate Limit	
3 rd Excess Liability	\$52,275	\$61,500	
Layer \$5M X \$15M	\$5M Per Occurrence	\$5M Per Occurrence	
	Limit \$5M Aggregate Limit	Limit	
4th T	00 0	\$5M Aggregate Limit	
4 th Excess Liability	N/A	\$53,275	
Layer \$5M X \$20M		\$5M Per Occurrence	
		Limit	
eth man and a second	DT/A	\$5M Aggregate Limit	
5 th Excess Liability	N/A	\$48,500	
Layer \$5M X \$25M		\$5M Per Occurrence	
		Limit \$5M Aggregate Limit	
75 44 - 1 - T 1 4 141	#00.02 5		4 120/ T
Pollution Liability	\$88,837	\$92,499	4.12% Increase in Rate
\$10M			III Nate
\$10M Limit			
\$250k Deductible			
			5.52% Increase
TOTAL	\$747,815	\$789,169	in premium



OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MEMORANDUM

TO: Jim Nash, Chairperson

Evergreen-Farmington Sanitary Drain Drainage District

FROM: Gary Nigro, P.E., Manager

SUBJECT: FY 2024-2025 Rate Recommendation

DATE: April 23, 2024

The purpose of this memorandum is to communicate a recommendation to the Board of the Evergreen Farmington Sanitary Drain Drainage District (EFSD) detailing the proposed monthly charges to our customer communities based on approved Great Lakes Water Authority (GLWA) monthly charges for its fiscal 2024-25 rate year.

The attached exhibits highlighting the proposed budget, sewer charges, cost allocation and capital improvement plan were presented to the EFSD customer communities on April 15, 2024.

The proposed budget and sewer charges are attached in Exhibit A. Because of increases in operating expenses the total annual charge to communities will increase 2.3% to \$53,202,110.

The proposed cost allocation to each community for operation and maintenance charges is included in Exhibit B. The methodology will remain the same as previous years, based on a rolling five-year flow average.

The proposed major maintenance and capital improvement plan is included in Exhibit C.

Recommended Action: Approve the proposed operating budget and sewer charges (Exhibit A), cost allocation (Exhibit B), and the Capital Improvement Program (Exhibit C) for the rate year beginning July 1, 2024, as presented.

EXHIBIT A

PROPOSED OPERATING BUDGET AND SEWER CHARGES

Evergreen Farmington Sewage Disposal System

82410 Financial Summary

	2023	2024	2025			
	Actual	Budget	Forecast		Inc / (Dec)	% Variance
Operating Poyonyon						
Operating Revenues Operating Rate Revenue	\$ 44,581,252.50	\$ 43,176,570.00	\$ 43,749,610.00	\$	573,040.00	1.3%
Operating Non-Rate Revenue	46,166,655.73	373,270.00	828,220.00	Ψ	454,950.00	121.9%
Operating Revenues	\$ 90,747,908.23	\$ 43,549,840.00	\$ 44,577,830.00	\$	1,027,990.00	2.4%
Operating Nevertues	Ψ 30,141,300.23	Ψ +0,0+0,0+0.00	Ψ ++,577,000.00	Ψ	1,027,000.00	2.470
Operating Expenses						
Sewage Treatment	\$ 36,336,351.35	\$ 37,192,800.00	\$ 37,912,800.00	\$	720,000.00	1.9%
Sewer System Maintenance	34,559,809.39	479,870.00	642,980.00		163,110.00	34.0%
Sewer System Engineering	234,781.04	320,670.00	268,730.00		(51,940.00)	-16.2%
Water Purchases	-	-	-		-	
Water Maintenance Unit	-	-	-		-	
Water Systems Engineering	-	-	-		-	
Septage Unloading Facility	211,890.82	259,100.00	220,130.00		(38,970.00)	-15.0%
Pump Maintenance Unit	1,225,258.21	1,347,120.00	1,343,520.00		(3,600.00)	-0.3%
Systems Control Unit	1,439,924.68	1,512,680.00	1,507,320.00		(5,360.00)	-0.4%
Plan Review and Permitting	231,996.99	169,520.00	203,520.00		34,000.00	20.1%
Inspection	18,351.98	7,980.00	11,740.00		3,760.00	47.1%
IPP	24,344.72	-	8,110.00		8,110.00	
Laboratory	-	-	-		-	
Mapping Unit	134,804.18	28,440.00	66,180.00		37,740.00	132.7%
Miss Dig	1,958.48	1,150.00	1,740.00		590.00	51.3%
Billing Services Unit	-	-	-		-	
General and Administrative	2,185,621.07	2,230,510.00	2,391,060.00		160,550.00	7.2%
Total Operating Expenses	76,605,092.91	43,549,840.00	44,577,830.00		1,027,990.00	2.4%
Net Income	\$ 13,480,593.93	\$ -	\$ -	\$	-	
Depreciation	<u>-</u>	-	_		_	
•						
<u>Reserves</u>						
Non-Operating Revenue	\$ 1,328,855.24	\$ 1,251,620.00	\$ 1,252,500.00	\$	880.00	0.1%
Non-Operating Expense	(10,598.13)	(212,550.00)	-		212,550.00	-100.0%
Major Maintenance Reserve Revenue	1,391,460.12	1,391,460.00	2,000,000.00		608,540.00	43.7%
Major Maintenance Reserve Expense	(801,821.46)	(3,022,090.00)	(2,847,810.00)		174,280.00	-5.8%
Emergency Reserve Revenue	-	-	-		-	
Emergency Reserve Expense	20,000.00	-	-		-	
Capital Reserve Revenue	6,366,304.96	13,200,000.00	6,200,000.00		(7,000,000.00)	-53.0%
Capital Reserve Expense	(15,682,655.48)	(10,618,890.00)	(13,198,350.00)		(2,579,460.00)	24.3%
Change in Net Assets	\$ 6,092,139.18	\$ 1,989,550.00	\$ (6,593,660.00)	\$	(8,583,210.00)	-431.4%
Poto Povonuo						
Rate Revenue						
Revenue Requirements:						
Operating Expense	\$ 77,267,314.30	\$ 43,549,840.00	\$ 44,577,830.00	\$	1,027,990.00	2.4%
Non-Operating	1,328,855.24	1,251,620.00	1,252,500.00	Ψ	880.00	0.1%
Major Maintenance	1,391,460.12	1,391,460.00	2,000,000.00		608,540.00	43.7%
Emergency Maintenance	1,001,400.12	-	2,000,000.00		-	70.770
Capital	6,366,304.96	13,200,000.00	6,200,000.00		(7,000,000.00)	-53.0%
Total Revenue Requirements	\$ 86,353,934.62	\$ 59,392,920.00	\$ 54,030,330.00	\$	(5,362,590.00)	-9.0%
Non-Rate Revenue	\$ (46,240,276.23)	\$ (7,373,270.00)	\$ (828,220.00)	\$	6,545,050.00	-88.8%
Rate Required Revenue	\$ 40,113,658.39	\$ 52,019,650.00	\$ 53,202,110.00	\$	1,182,460.00	2.3%
	5,115,500.00	,5.0,000.00		Ψ_	.,.52,.55.55	

	Effe	ctive July 1, 2024
GLWA Fixed Charge	\$	37,912,800.00
OCWRC Fixed Charge (1)		6,665,030.00
Non-Operating		1,252,500.00
Major Maintenance Reserve		2,000,000.00
Emergency Reserve		-
Capital Improvement Reserve		6,200,000.00
Misc Revenue		(828,220.00)
Total Charge:		53,202,110.00

	tive July 1, 2024 nnual Charge	tive July 1, 2024 onthly Charge
Auburn Hills	\$ 384,652	\$ 32,054.34
Beverly Hills	2,403,671	200,305.92
Bingham Farms	308,572	25,714.34
Birmingham	4,013,036	334,419.67
Bloomfield Hills	1,310,368	109,197.33
Bloomfield Township	9,539,138	794,928.17
Franklin	266,011	22,167.58
Lathrup Village	1,057,658	88,138.16
Southfield	9,829,090	819,090.84
Troy	2,221,720	185,143.33
Farmington	422,957	35,246.42
Farmington Hills	12,409,923	1,034,160.25
Keego Harbor	434,128	36,177.34
Orchard Lake Village	469,775	39,147.93
West Bloomfield Township	6,687,505	557,292.08
Acacia Park RTB	424,553	35,379.42
Birmingham RTB	460,198	38,349.83
Bloomfield RTB	 559,155	 46,596.25
Total	\$ 53,202,110	\$ 4,433,509.20

	FY 2023-202	24 (July - June)	FY 2024-2025	(July - June)	
	Share % of System	Monthly Charge	Share % of System	Monthly Charge	% Change Mthly Charge
Auburn Hills	0.736%	\$ 31,905.34	0.723%	\$ 32,054.34	0.5%
Beverly Hills	4.445%	192,689.42	4.518%	200,305.92	4.0%
Bingham Farms	0.592%	25,663.01	0.580%	25,714.34	0.2%
Birmingham	7.632%	330,845.00	7.543%	334,419.67	1.1%
Bloomfield Hills	2.450%	106,206.83	2.463%	109,197.33	2.8%
Bloomfield Township	17.803%	771,754.84	17.930%	794,928.17	3.0%
Franklin	0.501%	21,718.25	0.500%	22,167.58	2.1%
Lathrup Village	2.066%	89,560.49	1.988%	88,138.16	-1.6%
Southfield	18.517%	802,706.59	18.475%	819,090.84	2.0%
Troy	4.179%	181,158.42	4.176%	185,143.33	2.2%
Farmington	0.800%	34,679.76	0.795%	35,246.42	1.6%
Farmington Hills	23.255%	1,008,097.49	23.326%	1,034,160.25	2.6%
Keego Harbor	0.838%	36,327.09	0.816%	36,177.34	-0.4%
Orchard Lake Village	0.883%	38,277.84	0.883%	39,147.93	2.3%
West Bloomfield Township	12.579%	545,295.91	12.570%	557,292.08	2.2%
Acacia Park RTB	0.796%	34,506.42	0.798%	35,379.42	2.5%
Birmingham RTB	0.844%	36,587.17	0.865%	38,349.83	4.8%
Bloomfield RTB	<u>1.084%</u>	46,991.00	<u>1.051%</u>	46,596.25	<u>-0.8%</u>
Total	100.00%	\$ 4,334,970.87	100.00%	\$ 4,433,509.20	2.3%

Charges have been rounded

EVERGREEN FARMINGTON SANITARY DRAINAGE DISTRICT SCHEDULE OF RATES AND CHARGES EFFECTIVE JULY 1, 2024

1. Wastewater Disposal Charge

Each community shall pay monthly, a charge in accordance with schedule below:

		Effective July 1, 2024 Monthly Charge
Auburn Hills		\$ 32,054.34
Beverly Hills		200,305.92
Bingham Farms		25,714.34
Birmingham		334,419.67
Bloomfield Hills		109,197.33
Bloomfield Township		794,928.17
Franklin		22,167.58
Lathrup Village		88,138.16
Southfield		819,090.84
Troy		185,143.33
Farmington		35,246.42
Farmington Hills		1,034,160.25
Keego Harbor		36,177.34
Orchard Lake Village		39,147.93
West Bloomfield Towns	ship	557,292.08
Acacia Park RTB		35,379.42
Birmingham RTB		38,349.83
Bloomfield RTB		<u>46,596.25</u>
	Total:	\$ 4,433,509.20

2. Pollutant Surcharge

In accordance with current Great Lakes Water Authority (GLWA) standards and rates, the following pollutant surcharges shall be levied against industrial and commercial customers contributing sewage to the System with concentrations of pollutants exceeding the levels described as follows:

POLLUTANT SURCHARGE RATE, PER EXCESS POUND	EFFECTIVE JULY 1, 2024 \$/LB
Biochemical Oxygen Demand (BOD) in excess of 275 mg/l	\$0.392
Total Suspended Solids (TSS) in excess of 350 mg/l	0.525
Phosphorus (PHOS) in excess of 12 mg/l	7.571
Fats, Oil, & Grease (FOG) in excess of 100 mg/l	0.125

3. Industrial Waste Control Charge (IWC)

Each community shall report monthly the total number and size of water meters used by non-residential users of the System. Where metered water is not available, the community shall report monthly the "Assigned Water Meter Size" of non-residential users of the System as determined by WRC via Residential Equivalency Units (REU) equivalents or use of AWWA M22 (Chapter 5 – Sizing the Customer's Service and Meter).

Based on the reported number of water meter sizes, actual and assigned, for non-residential users of the System, each community shall pay a monthly IWC in accordance with the following schedule:

METER SIZE	EFFECTIVE JULY 1, 2024 MONTHLY IWC CHARGE
5/8"	\$3.72
3/4"	5.58
1"	9.30
1 1/2"	20.46
2"	29.76
3"	53.94
4"	74.40
6"	111.60
8"	186.00
10"	260.40
12"	297.60
14"	372.00
16"	446.40
18"	520.80

Non-residential users shall be defined as all users other than those in single family houses, apartment buildings, condominiums, town houses, mobile homes, schools, churches and municipal buildings.

4. Penalty

The sewage disposal service charge shall be payable monthly. If any municipality does not pay its service charge by the due date, there will be a penalty of one (1) percent for each month or a fraction thereof for which the charge remains.

EXHIBIT B

COST ALLOCATION/ SHARES

EXHIBIT BEvergreen-Farmington Sanitary Drain Fiscal Year 2025 Proposed Cost Allocation

		Volumes for Individual Years (MCF)										
Community	RY 2017/18	RY 2018/19	RY 2019/20	RY 2020/21	RY 2021/22	RY 2022/23	Year 2025 Shares					
Auburn Hills	14,598	13,999	13,271	11,409	14,019	11,610	0.723%					
Beverly Hills	75,789	96,320	77,751	67,521	90,344	71,577	4.518%					
Bingham Farms	11,864	11,282	9,737	8,132	13,405	9,435	0.580%					
Birmingham	126,793	153,015	137,038	118,633	164,312	103,358	7.543%					
Bloomfield Hills	45,663	47,557	43,944	35,132	52,717	40,708	2.463%					
Bloomfield Township	297,697	336,064	339,137	285,928	369,976	268,783	17.930%					
Franklin	9,192	9,782	9,879	8,552	8,197	7,902	0.500%					
Lathrup Village	39,549	43,281	36,840	25,132	25,132 45,919		1.988%					
Southfield	364,192	350,632	338,774	269,712	373,404	373,404 313,455						
Troy	74,557	77,415	80,070	68,581	80,751	64,643	4.176%					
Farmington	13,871	15,715	13,365	14,038	15,956	11,654	0.795%					
Farmington Hills	408,396	447,079	422,938	399,883	441,307	360,711	23.326%					
Keego Harbor	15,874	15,292	15,944	11,652	18,200	12,091	0.816%					
Orchard Lake Village	17,045	14,582	16,049	15,354	17,323	14,835	0.883%					
West Bloomfield Township	236,194	229,020	235,071	200,971	247,649	204,757	12.570%					
APRTB Stormwater	23,367	31,074	18,956	16,373	24,508	20,554	0.798%					
BirmRTB Stormwater	22,425	29,944	21,217	17,909	29,820	21,977	0.865%					
BVRTB Stormwater	33,641	42,419	28,627	17,559	34,130	25,230	1.051%					
Total	1,830,707	1,964,472	1,858,609	1,592,472	2,041,938	1,591,595	100.000%					

Basis of Current Shares

Basis of Proposed Shares

EXHIBIT C

MAJOR MAINTENANCE AND CAPITAL IMPROVEMENT PLAN

Expense Description	FY 2024 Projected		FY 2025 Projected		FY 2026 Projected		FY 2027 Projected		FY 2028 Projected		FY 2029 Projected	
RTB Unplanned Major Maintenance	\$	20,000	\$	20,000	\$	20,000	\$	20,000	\$	50,000	\$	50,000
Manhole Lining	\$	500,000	\$	-	\$	1,000,000	\$	-	\$	1,000,000	\$	-
Pipe Grouting	\$	200,000	\$	200,000	\$	20,000	\$	400,000	\$	20,000	\$	400,000
Excavation Spot Repair	\$	500,000	\$	500,000	\$	20,000	\$	500,000	\$	20,000	\$	500,000
CCTV-System Prog	\$	900,000	\$	900,000	\$	500,000	\$	500,000	\$	500,000	\$	900,000
Manhole Inspection	\$	80,000	\$	80,000	\$	80,000	\$	80,000	\$	80,000	\$	80,000
Manhole Repair	\$	250,000	\$	250,000	\$	-	\$	-	\$	-	\$	-
CAMP (RIVA)	\$	221,091	\$	292,806	\$	301,590	\$	310,638	\$	319,957	\$	329,556
Consultant Project Planning	\$	50,000	\$	-	\$	-	\$	-	\$	-	\$	-
Amy PS Site/Facility Improvements	\$	-	\$	10,000	\$	-	\$	26,000	\$	-	\$	-
Drake PS Site/Facility Improvements	\$	-	\$	130,000	\$	61,000	\$	-	\$	-	\$	15,000
Eldon PS Site/Facility Improvements	\$	-	\$	-	\$	15,000	\$	-	\$	-	\$	-
Morris Lk PS Site/Facility Improvements	\$	-	\$	20,000	\$	-	\$	-	\$	-	\$	-
Thornbrook PS Site/Facility Improvements	\$	36,000	\$	205,000	\$	56,000	\$	-	\$	-	\$	-
Walnut Lk 1 PS Site/Facility Improvements	\$	40,000	\$	140,000	\$	169,750	\$	41,750	\$	-	\$	44,000
Walnut Lk 3 PS Site/Facility Improvements	\$	-	\$	-	\$	-	\$	-	\$	6,000	\$	-
EFSDS EvgrnIntRehab	\$	45,000	\$	-	\$	-	\$	-	\$	-	\$	-
EFSD Hydraulic Modeling & Response Plan	\$	50,000	\$	50,000	\$	-	\$	-	\$	-	\$	-
E-F SDS 2023 Regional Sampling	\$	25,655	\$	50,000	\$	50,000	\$	50,000	\$	50,000	\$	-
Amy PS Forcemain Rehab ARVs	\$	150,000	\$	-	\$	-	\$	-	\$	-	\$	-
Quarton Lake Assessment	\$	16,126	\$	-	\$	-	\$	-	\$	-	\$	-
MTST Operational Enhancements	\$	125,000	\$	-	\$	-	\$	-	\$	-	\$	-
Quarton Operational Enhancements	\$	85,000	\$	-	\$	-	\$	-	\$	-	\$	-
Total Expense	\$	3,293,872	\$	2,847,806	\$	2,293,340	\$	1,928,388	\$	2,064,957	\$	2,318,556

Expense Description	FY 2024 Projected	FY 2025 Projected	FY 2026 Projected	FY 2027 Projected	FY 2028 Projected	FY 2029 Projected
CIP Unplanned	\$ -	\$ -	\$ -	\$ 50,000	\$ 75,000	\$ 100,000
Sewage Meter Replacement Prog	\$ -	\$ 800,000	\$ 300,000	\$ 50,000	\$ 50,000	\$ 50,000
Pipe Lining / Replacement	\$ 250,000	\$ 250,000	\$ -	\$ 3,000,000	\$ 500,000	\$ 3,500,000
Collection System Improvements	\$ 42,580	\$ 849,350	\$ 1,250,000	\$ -	\$ -	\$ -
Adams Road LM Site/Facility Improvements	\$ -	\$ -	\$ -	\$ 5,000	\$ -	\$ -
Amy PS Site/Facility Improvements	\$ -	\$ 138,000	\$ -	\$ 120,000	\$ 5,000	\$ 15,000
Biddestone PS Site/Facility Improvements	\$ -	\$ 460,000	\$ 900,000	\$ -	\$ -	\$ -
Burnley(Wattles) Regulator Site/Facility Improvements	\$ -	\$ -	\$ -	\$ 5,000	\$ -	\$ -
Chestnut Hill(Wattles) Regulator Site/Facility Improvements	\$ -	\$ 6,000	\$ -	\$ -	\$ 6,000	\$ -
Drake PS Site/Facility Improvements	\$ 75,000	\$ 527,000	\$ 16,000	\$ 30,000	\$ 60,000	\$ 40,000
Inkster PS Site/Facility Improvements	\$ 159,000	\$ 391,000	\$ 700,000	\$ -	\$ -	\$ -
Lakeside LM Site/Facility Improvements	\$ 6,000	\$ -	\$ -	\$ -	\$ 5,000	\$ -
Lathrup Vlg LM Site/Facility Improvements	\$ -	\$ -	\$ -	\$ -	\$ 5,000	\$ -
Middlebelt Storage Tunnel & N of 14 LM Site/Facility Improvements	\$ -	\$ 36,000	\$ -	\$ -	\$ 78,000	\$ -
Morris Lk PS Site/Facility Improvements	\$ -	\$ -	\$ 15,000	\$ 135,000	\$ 80,000	\$ -
Quarton Dewatering & Inlet Diversion Chamber Site/Facility Improvements	\$ -	\$ -	\$ -	\$ -	\$ 10,000	\$ -
Quarton Rd PS Site/Facility Improvements	\$ -	\$ 45,000	\$ -	\$ -	\$ 10,000	\$ -
Springdale LM Site/Facility Improvements	\$ -	\$ 11,000	\$ -	\$ 5,000	\$ -	\$ -
Thornbrook PS Site/Facility Improvements	\$ 123,000	\$ 580,000	\$ 36,000	\$ 94,000	\$ -	\$ -
Walnut Lk 1 PS Site/Facility Improvements	\$ 80,000	\$ 145,000	\$ -	\$ 25,000	\$ 55,000	\$ 115,000
Walnut 3 PS Rehab	\$ 580,521	\$ -	\$ -	\$ -	\$ -	\$ -
8 Mile CAP - Conveyance	\$ 30,000,000	\$ 15,000,000	\$ 15,000,000	\$ 8,254,081	\$ -	\$ -
I-696 PS Rehab	\$ 1,267,877	\$ 300,000	\$ -	\$ -	\$ -	\$ -
Walnut 2 PS Rehab	\$ 500,000	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -
EFSD LathVillSRT ACO	\$ 2,752,511	\$ -	\$ -	\$ -	\$ -	\$ -
EF 8Mile PS CIP	\$ -	\$ -	\$ -	\$ 1,138,000	\$ 1	\$ -
EFSD Area 7 Lining	\$ 1,000,000	\$ 7,000,000	\$ -	\$ -	\$ -	\$ -
WLPS1 Replace Wet Well Ventilation	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ -
Morris PS Replace Check Valves	\$ 12,000	\$ 20,000	\$ -	\$ -	\$ 1	\$ -
EFSD BLT087 CMP Lining	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -
Eldon PS Add Actuator	\$ 50,000	\$ -	\$ -	\$ -	\$	\$ -
Drake PS Replace Pump P3	\$ 85,000	\$ -	\$ -	\$ -	\$ -	\$ -
Drake PS Add Water Service	\$ 20,000	\$ -	\$ -	\$ -	\$ 	\$ -
Thornbrook PS Add Water Service	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ -
Walnut 1 PS CAP	\$ 400,000	\$ 4,700,000	\$ -	\$ -	\$ -	\$ -
Biddestone Pump Station Rehab	\$ 150,000	\$ 140,000	\$ -	\$ -	\$ 	\$ -
Total Expense	\$ 37,843,489	\$ 32,898,350	\$ 18,217,000	\$ 12,911,081	\$ 939,000	\$ 3,820,000

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MEMORANDUM

TO: Jim Nash, Chairperson of the

Evergreen-Farmington Sanitary Drain Drainage Board

FROM: Philip Kerby P.E., Operations Engineer

SUBJECT: 27-inch Sanitary Sewer Rehabilitation

W. Maple Rd. at Quarton Lake in the City of Birmingham

DATE: April 23, 2024

The Water Resources Commissioner's office (WRC) has identified a segment of sanitary sewer in the Evergreen-Farmington Sanitary Drain Drainage District in need of rehabilitation. The sewer, depicted in the attached photos, is a 27-inch reinforced concrete pipe in the City of Birmingham north of West Maple Road at Quarton Lake.

This Board previously approved an assessment of funds for this sewer and the adjacent sewer segments during its January 24, 2023 meeting. This assessment was performed by Hubbell, Roth, & Clark, Inc. (HRC) under the direction of WRC staff. Some 1,200 feet of sanitary sewer was inspected while the sewer was being bypassed. Following a careful review of the inspection videos, it was determined that a 102-foot section of the 27-inch reinforced concrete pipe needs rehabilitation.

Included with this memo is the condition assessment recommendation and proposal for design services from HRC. It is recommended that an engineering design services contract be awarded to HRC in the amount of \$42,000 in conformance with the attached proposal. This amount will cover the cost for the design of the sanitary sewer rehabilitation. The estimated construction cost to rehabilitate this sewer is \$316,000. This preliminary estimate will be refined during the design phase. The Drainage Board will be advised at a later date the amount necessary to fund the construction phase of this project.

The following is a breakdown of the estimated expenses for the design phase of this project:

Engineering Design Services: \$42,000 WRC Engineering: \$6,000 Total: \$48,000

RECOMMENDED ACTION: Add this rehabilitation project to the capital improvement plan with a design budget of \$48,000 and award the engineering services contract to Hubbell, Roth & Clark, Inc. in the amount of \$42,000.

Page 1 of 2 Rev.: 02/12/2018



Heavy Agitation



Exposed Reinforcement

Page 2 of 2 Rev.: 02/12/2018

555 Hulet Drive Bloomfield Hills, MI 48302-0360

248-454-6300

www.hrcengr.com



September 5, 2023

Oakland County Water Resources Commissioner One Works Public Drive Waterford, Michigan 48328

Attn: Mr. Phillip Kerby, P.E.

Operations Engineer

Re: Evergreen-Farmington Sanitary Drain – Quarton Lake Sewer Rehabilitation

Task 1 – Condition Assessment

HRC Job No. 20220986

Dear Mr. Kerby:

As requested, we have completed our review of the sewer conditions in the Evergreen-Farmington Sanitary Drain section identified in our proposal. We have prepared this letter to present the summary and design recommendations.

The study area is along Mill Race beginning at Lakeside Drive and through easement areas east of Quarton Lake Park in the City of Birmingham Michigan. The 27-inch diameter Evergreen-Farmington sanitary drain is constructed of pre-cast C-76 Class I concrete pipe according to the 1960 dated as-builts. HRC previously reviewed televising video of the sewer and determined that a second attempt should be performed under bypassed flow conditions in order to obtain a more detailed inspection of the pipe wall conditions and circumference, along with the joint integrity. WRC recently completed a secondary inspection of the pipe successfully under bypassed flow conditions. The following list includes a summary of the defects present by segment:

- BLT104003 to BLT104002 One weeper leak was observed approximately 118 feet downstream from BLT104003
- BLT104002 to BLT104001 No defects observed.
- BLT104001 to BLT137013 Surface Damage reinforcement Corroded/Projecting is observed after the first pipe joint from manhole BLT104001 beginning at approximately 8 feet to 20 feet
- ≡ BLT137013 to BLT137012 One weeper leak was observed approximately 57 feet downstream from BLT137013.
- BLT137012 to BLT142003 One weeper leak was observed approximately 200 feet downstream from BLT137012.

Based on the televising video, the pipe is observed to be in fairly good condition. The segment with the surface damage observation crosses the Rouge River, and HRC recommends this segment be lined full length using a cured-in-place resin liner due to the criticality of that segment. We also recommend that chemical injection grouting and air pressure tests at the joints be performed on the sewer segments where leaks were observed while this part of the interceptor is bypassed for the lining work. Grouting the known leaks, as well as other joints that do not pass a pressure test, will prevent infiltration and potential soil loss around the pipe through the infiltration process. The approximate location of the noted defects are shown on the attached exhibit.

While it is not warranted based solely on the conditions observed in the inspection videos at this time, CIPP lining of these additional segments should be considered as a potential preventative maintenance measure on this section of the interceptor. If lining these additional segments, joint grouting would be limited to active leaks only to allow proper installation of the liners. The cost to line the additional segments will never be less than if completing with the upcoming project. Coming back with a separate, future project will require the sanitary bypass to be set-up again, and it can be expected that materials and labor costs will continue to increase with time. Including these additional segments with the upcoming project may improve the competitiveness of the bids, as economies-of-scale for the larger scope-of-work may come into play.

Bloomfield Hills | Delhi Township | Detroit | Grand Rapids | Howell | Jackson | Kalamazoo | Traverse City | Troy

Matthew G. Hughes, P.E.

Project Engineer



For budgetary planning purposes, the conceptual construction cost estimate for the recommended rehabilitation is \$316,000.00. The conceptual construction cost estimate for the recommended rehabilitation plus the additional lining work would be \$667,000.00. Please refer to the attached conceptual construction cost estimates for more information.

As part of our condition assessment review, HRC did not analyze bench configurations in the manhole structures. We understand that WRC is removing square and rectangular manhole structures in other areas of the Evergreen Interceptor It would be a good opportunity to perform manhole modifications while the sewer is bypassed.

HRC will prepare a design engineering services proposal to provide final plans and specifications based on the rehabilitative recommendations discussed above. The proposed design cost will not be increased if the additional lining work is requested, as that will only affect the quantities for the work items.

If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.

James J. Surhigh, P.E. Senior Associate

Attachments: (1) Cost Estimates (2) Condition Assessment Exhibits

pc: WRC; M. Drew Sandahl

HRC; D. Mitchell, K. Stickel, File

OAKLAND COUNTY WATER RESOURCES COMMISSIONER'S OFFICE

EVERGREEN-FARMINGTON SANITARY DRAIN QUARTON LAKE AREA SEWER REHABILITATION OPTION 1 - CURED-IN-PLACE LINER ON #25924 AND GROUT LEAKS IN REMAINING PIPES

COST			RATE			UNITS	QUANTITY	DESCRIPTION
								CANITADY COMED DIDE #25024
45,6	\$	`	45,600.00	\$	@	LS	1	SANITARY SEWER PIPE #25924 Mobilization (20% Max)
43,0	۶ \$		100.00	۶ \$	_	DLR	0	Permit Allowance
- -	•		5,200.00	۶ \$	@	LS	_	Color Audio-Video Recording of Construction Areas
5,2	\$,	5,200.00	Ş	ш	LS	1	Temporary Bypass Pumping, Portable 6-8 Inch Pump Setup &
22.0	ċ		22 000 00	۲	<u></u>	T.C	1	Breakdown
22,0	\$		22,000.00	\$	@	LS	1	
10,5	\$		10,500.00	\$	@	LS	1	Temporary Bypass Pumping, Portable 6-8 Inch Pump Operation
3,0	\$)	3,000.00	\$	@	LS	1	Temporary Heavy Equipment Mats
	_			_	_		_	Pre-Lining Manhole Adjustment - Temporary Remove Casting and
15,0	\$		7,500.00	\$	@	EA	2	Cone
3,0	\$		30.00	\$	@	LFT	100	Pre-lining Preparation, Clean and Televise, 27-Inch
1,5	\$		1,500.00	\$	@	EA	1	Pre-Lining, Grouting Operation Setup & Breakdown
3,6	\$		450.00	\$	@	EA	8	Pre-Lining, Test Main Line Joint, 27-Inch Diameter
3,6	\$)	1,200.00	\$	@	EA	3	Pre-Lining, Grout Main Line Joint or Defect, 27-Inch Diameter
45,0	\$)	450.00	\$	@	LFT	100	Sewer Lining, CIPP, 27-Inch
1,0	\$)	10.00	\$	@	LFT	100	Post-Lining, Clean and Televise with PACP reporting, 27-Inch
15,0	\$)	7,500.00	\$	@	EA	2	Rebuild Manhole
2,0	\$)	2,000.00	\$	@	LS	1	Traffic Control
8,0	\$)	8,000.00	\$	@	LS	1	Restoration
								LEAK SEALING FOR REMAINING SEGMENTS
9,0	\$)	1,500.00	\$	@	EA	6	Chemical Grouting Operation Setup
47,7	\$)	450.00	\$	@	EA	106	Test Main Line Joint, 27-Inch Diameter
28,8	\$)	1,200.00	\$	@	EA	24	Grout Main Line Joint or Defect, 27-Inch Diameter
4,5	\$		750.00	\$	@	EA	6	Grout Lateral Connection In Main Line
42,0	\$,	15% Contingency					

CONCEPTUAL ESTIMATED CONSTRUCTION COST \$ 316,000

Note:

 $Preliminary\ cost\ estimate\ is\ for\ information\ only,\ final\ items\ of\ work\ and\ quantities\ may\ change\ after\ final\ project\ design\ is\ completed$



OCWRC 9/5/2023 HRC JOB NO. 20220986

OAKLAND COUNTY WATER RESOURCES COMMISSIONER'S OFFICE

EVERGREEN-FARMINGTON SANITARY DRAIN QUARTON LAKE AREA SEWER REHABILITATION OPTION 2 - CIPP LINER ON ALL SEGMENTS, LEAK SEALING AS NEEDED

EM	DESCRIPTION	QUANTITY	UNITS			RATE		COST
CANITA	ARY SEWER PIPE							
	ration (10% Max)	1	LS	@	\$	55,100.00	\$	55,100
	Allowance	0		_	\$	100.00	\$	-
	audio-Video Recording of Construction Areas	1	LS	@	\$	5,200.00	\$	5,200
	rary Bypass Pumping, Portable 6-8 Inch Pump Setup &	-	Lo	C	7	3,200.00	Ψ	3,200
Breakd		1	LS	@	\$	22,000.00	\$	22,000
Tempo	rary Bypass Pumping, Portable 6-8 Inch Pump Operation	1	LS	@	\$	21,000.00	\$	21,000
Tempo	rary Heavy Equipment Mats	1	LS	@	\$	3,000.00	\$	3,000
Pre-Lin	ing Manhole Adjustment - Temporary Remove Casting and							
Cone		6	EA	@	\$	7,500.00	\$	45,000
Pre-lini	ng Preparation, Clean and Televise, 27-Inch	1,120	LFT	@	\$	10.00	\$	11,200
Pre-Lin	ing, Grouting Operation Setup & Breakdown	3	EA	@	\$	1,500.00	\$	4,500
Pre-Lin	ing, Grout Main Line Joint or Defect, 27-Inch Diameter	12	EA	@	\$	1,200.00	\$	14,400
Pre-Lin	ing, Grout Lateral Connection In Main Line	6	EA	@	\$	750.00	\$	4,500
Sewer I	Lining, CIPP, 27-Inch	1,120	LFT	@	\$	315.00	\$	352,800
Post-Lir	ning, Clean and Televise with PACP reporting, 27-Inch	1,120	LFT	@	\$	5.00	\$	5,600
Rebuild	d Manhole	6	EA	@	\$	7,500.00	\$	45,000
Traffic	Control	1	LS	@	\$	5,000.00	\$	5,000
Restora	ation	1	LS	@	\$	12,000.00	\$	12,000
				1	0%	Contingency	\$	60,700

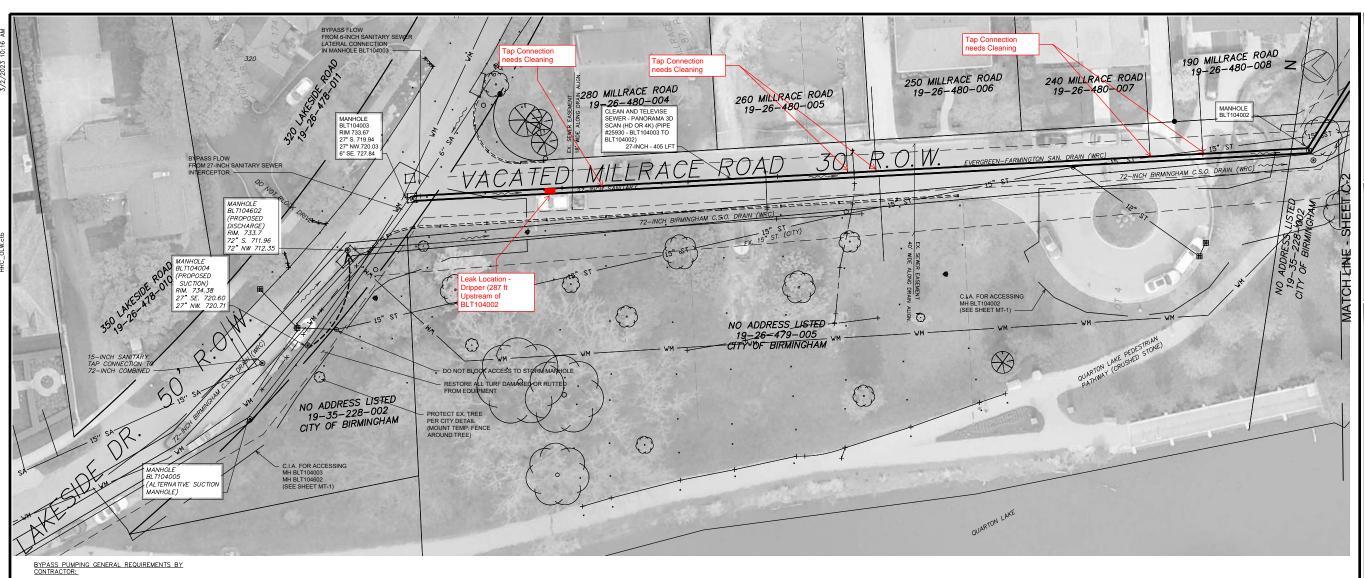
CONCEPTUAL ESTIMATED CONSTRUCTION COST \$ 667,000

Note:

Preliminary cost estimate is for information only, final items of work and quantities may change after final project design is completed



OCWRC 9/5/2023 HRC JOB NO. 20220986



QUALIFICATIONS:

GENERAL/PRIME CONTRACTOR IS REQUIRED TO SUBMIT NAME O SUBCONTRACTOR PERFORMING BYPASS PUMPING OPERATIONS

SUBMIT A PROPOSED BY-PASS PUMPING PLAN TO THE ENGINEER

MOBILIZATION AND SCHEDULE NOTES:

STAGE CONSTRUCTION OPERATION AND SCHEDULE WORK SUCH THAT EVERY EFFORT SHALL BE MADE TO MINIMIZE THE AMOUNT OF BY-PASS PUMPING THAT WILL BE REQUIRED. AT A MINIMUM, GENERATE BYPASS PUMPING LOGS SO THE OWNER IS NOTIFIED OF START/STOP TIMES.

MONITORING:

WHILE IN USE, CONTINUOUSLY MONITOR THE BY-PASS PUMPING OPERATIONS FOR 24 HOURS PER DAY, 7 DAYS PER WEEK.

OPERATE AND MAINTAIN ALL PUMPS AND DISCHARGE PIPING, CONDUITS, FITTINGS, ETC.

PROVIDE LIST OF PERSONNEL WITH CONTACT TELEPHONE NUMBERS, WORK CLASSIFICATION, DUTIES, AND, ANTICIPATED RESPONSE TIME FOR EMERGENCY CONDITIONS TO BE REVIEWED BY THE OWNER, REASONABLE RESPONSE TIMES SHALL BE REQUIRED FOR CORRECTION OF EMERGENCY CONDITIONS.

PROVIDE A RECORD OF SURCHARGE LEVEL ELEVATION CHECKS AT UPSTREAM MANHOLE(S) LOGGED AT 2 HOUR INTERVALS DURING THE PUMPING.

CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE INCURRED BY OR ASSOCIATED WITH SEWER BACKUPS CAUSED BY BYPASS PUMPING OPERATIONS.

FOR LONG TERM BYPASS PUMPING, PROVIDE AN ELECTRONIC LEVEL MONITORING ENCLOSURE INSTALLED ABOVE GRADE. THIS MONITOR SHALL PROVIDE A MINIMUM OF 5 DISTINCT LEVEL INDICATIONS DISPLAYED BY LIGHTS MOUNTED ON THE FACE OF THE PANEL. THE FOURTH AND FIFTH INDICATING LIGHTS SHALL BE IN COMMON WITH A FLASHING RED ALARM BEACON AND HORN MOUNTED ON THE ENCLOSURE.

THE FIRST LICHT SHALL BE LIT AT THE NORMAL DRY WEATHER FLOW LEVEL. THE HIGHER ELEVATIONS SHALL BE SET AT LEVELS DETERMINED FOR EACH INSTALLATION. DIFFERENT LEVELS SHALL BE SENSED BY SEPARATE ADJUSTABLE FLOAT LEVEL SWITCHES LOCATED NEAR THE BOTTOM OF THE SUCTION MANHOLE. THIS MONITOR SHALL BE POWERED BY A STAND ALONE POWER SUPPLY UNLESS OTHERWISE AUTHORIZED. THIS MONITOR SHALL BE SEPARATE FROM THE CONTROLS FURNISHED TO OPERATE THE BY-PASS PUMPS.

POWER

PROVIDE ADEQUATE STAND ALONE POWER SUPPLY FOR THE OPERATION OF THE TEMPORARY BYPASS PUMPING SYSTEM AS SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO ALL POTENTIAL PUMPING SCENARIOS AND MONITORING EQUIPMENT.

BYPASS SUBMITTAL REQUIREMENTS:

WHERE NOT PROVIDED IN THE SPECIFICATIONS FOR BID, AT MINIMUM PROVIDE: DESIGN CALCULATIONS INCLUDING STATIC LIFT, FRICTION LOSSES, FLOW VELOCITY, PUMP AND PIPE SIZES, PUMP TYPE AND CAPACITY, POWER REQUIREMENTS, AND PROJECT SETUP CONFIGURATION.

REDUNDANCY REQUIREMENTS:

REDUNDANT PUMPING CAPACITIES ARE REQUIRED FOR THE DRY WEATHER FLOW RATES.

PERMANENT BACK-UP PUMPING CAPACITY IS NOT REQUIRED FOR WET WEATHER PEAK FLOW CAPACITIES. HOWEVER, PRIOR TO STARTING BY-PASS PUMPING OPERATIONS, PROVISIONS SHALL BE MADE FOR OBTAINING AN ADEQUATE SIZE STAND-BY PUMP CAPABLE OF HANDLING THE WET WEATHER PEAK FLOWS.

DURING WET WEATHER FLOW CONDITIONS, STOP BYPASS PUMPING OPERATIONS AND RETURN FLOWS TO SEWER, OR PROVIDE SUFFICIENT PUMPING CAPACITY TO MAINTAIN LEVELS IN THE SUCTION MANHOLES BELOW THE MANHOLE SURCHARGE LEVEL FOR EACH SITE.

PUMP REQUIREMENTS:

THE DRY WEATHER FLOW PUMPS SHALL BE CAPABLE OF HANDLING SOLIDS SIZES OF UP TO 3"

PUMP SELECTION AND PIPE SIZING SHALL BE DETERMINED BY THE BY-PASS PUMPING CONTRACTOR BASED ON BY-PASS PUMPING CONDITION TABLE PROVIDED PER SITE.

TEST AND DEMONSTRATE BY—PASS PUMPING OPERATIONS FOR A MINIMUM OF 48 HOURS PRIOR TO SHUTDOWN OF A FACILITY. CONTRACTOR SHALL CONTACT LOCAL MUNICIPALITY A MINIMUM OF 48 HOURS PRIOR TO DEMONSTRATION OF BY—PASS PUMPING OPERATIONS.

NOISE LEVELS:

NOISE LEVELS SHALL BE LIMITED TO 70dB(A) OR A MAXIMUM OF 10dB(A) ABOVE AMBIENT NOISE LEVELS WHICHEVER IS LESS. SOUND ATTENUATION OF POWER GENERATION EQUIPMENT SHALL BE UTILIZED IN RESIDENTIAL AREAS.

TEMPORARY ODOR CONTROL:

PREVENT THE RELEASE OF OBJECTIONABLE ODORS RELATED TO THE BY-PASS PUMPING OPERATION. PROVIDE PROVISIONS TO CONTROL ODORS AT THE PROJECT SITE DURING BY-PASS PUMPING OPERATIONS.

PROJECT SITE INFORMATION:

SIZE OF SEWER TO BYPASS: 27-INCH DIA.

AVERAGE DRY WEATHER FLOW: 6.5 CFS
MAX. DAILY DRY WEATHER FLOW: 7.5 CFS
MAX. 5-MINUTE DRY WEATHER FLOW: 11.5 CFS
MONITORING PERIOD: JULY 1 2021 TO JULY 1 2022

MANHOLE BLT104004: (PROPOSED SUCTION)

MANHOLE BLT104004: (PROPOSED SUCTION)
RIM ELEV. 734.38
27" SE INV . 720.60
27" NW INV. 720.71

MANHOLE BLT104602: (PROPOSED DISCHARGE)
RIM ELEV. 733.70
72" S. INV. 711.96
72" NW. INV. 712.35

MANHOLE BLT104003: (BYPASS) RIM ELEV. 733.67 27" S. INV. 719.94 27" NW. INV. 720.03 6" SE. INV. 727.84

(AVAILABLE FOR STANDBY)

V. 733.67 INV. 719.94 INV. 720.03 INV. 727.84 RED. PLACE ARY MANHOLE WALL

IF REQUIRED, PLACE
TEMPORARY MANHOLE WALL
BARREL ABOVE GRADE TO
ACCOMMODATE DISOHARGE
PIPING AND PROVIDE FALL
PROTECTION, PROVIDE ODOR
CONTROL AND FALL HAZARD
MEASURES TO ALL PERSONNEL
AND WILDLIFE.

SUCTION AND DISCHARGE MANHOLES:

PREPARATION AND SUBSEQUENT ADJUSTMENT OR RECONSTRUCTION OF ACCESS MANHOLE STRUCTURES TO ACCOMODATE SEWER BYPASS PUMPING EQUIPMENT IS CALLED OUT ON THE PLAN SHEETS. BID ITEMS FOR COSTS FOR RECONSTRUCTION OF SUCTION AND DISCHARGE MANHOLES ARE NOT INCLUED.

UPON COMPLETION OF BYPASS PUMPING ACTIVITIES, ALL SUCTION AND DISCHARGE MANHOLES SHALL BE RECONSTRUCTED TO FINISHED GRADE PER JURISDICTIONAL STANDARDS AND PROVIDED WITH NEW FRAME & COVER TO MATCH EXISTING TYPE AND STYLE.

A) FINAL ADJUSTMENT OF STRUCTURES SHALL BE IN ACCORDANCE COUNTY STANDARD SEWER DETAILS.
 B) NEW FRAME AND COVER SHALL BE PROVIDED IN ACCORDANCE WITH OAKLAND COUNTY STANDARD SEWER DETAILS.

RESTORE ALL DISTURBED SURFACES FROM SEWER BYPASS PUMPING ACTIVITY.

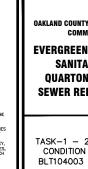
TO /FROM

SEWER CAMERA NOTES:

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER AND ENGINEER A FREE-DISTRIBUTABLE COPY OF THE SOFTWARE REQUIRED TO VIEW THE MIDEO-FILES. WHERE THIRD-PARTY LOGGING SOFTWARE IS USED, THE CONTRACTOR IS REQUIRED TO EXPORT THE VIEWER-VERSION WHEN SUBMITTING VIDEO FILES TO THE OWNER AND/OR ENGINEER

GENERAL PROJECT OVERVIEW:

- OBTAIN ALL NECESSARY PERMITS AND RECEIVE APPROVAL TO START WORK
- 2. INSTALL TRAFFIC CONTROL
- 3. SETUP BYPASS PUMPING EQUIPMENT AND PERFORM TESTING ON ALL EQUIPMENT WITH ALL PARTIES INVOLVED 48 HOURS PRIOR TO START
- PERFORM CLEANING AND TELEVISING OUTLINED IN PLANS AND SPECIFICATIONS
- 5. SUBMIT ALL TELEVISING FILES AND VIDEO TO ENGINEER
- DEMOBILIZE PUMPING EQUIPMENT, REMOVE PIPING AND RESTORE MANHOLES TO GRADE (IF. PREVIOUSLY ADJUSTED FOR BYPASS PLANDING)
- PERFORM PAVEMENT AND TURF RESTORATION FOR THE PROJECT, INCLUDING ANY FENCING OR LANDSCAPING THAT WAS DISTURBED (INCLD.).
- 8. REMOVE DETOUR AND ALL TRAFFIC CONTROL DEVICES.



OAKLAND COUNTY WATER RESOURCES COMMISSIONER

WATER RESOURCES COMMISSIONE

HUBBELL ROTH & CLARK, INC.

CONSULTING ENGINEERS SINCE 1915

P.O. BOX 824 48303 - 0824

≡HRC

WEB SITE: www.hrcengr.com

3-02-2023 REQUEST FOR QUOTE
2-15-2023 ISSUED FOR OWNER REVIEW

CHECKED JJS

555 HULET DRIVE

EVERGREEN-FARMINGTON SANITARY DRAIN QUARTON LAKE AREA SEWER REHABILITATION

TASK-1 - 27-INCH SEWER
CONDITION ASSESSMENT
BLT104003 TO BLT104002
OBSERVATIONS OBSERVED

L. BE VERIFIED IN THE FIELD. CALL
5 DAYS PROR TO DOOSTRUCTION.

CALL MISS DIG
72 HOURS (GWORMS DAYS)
(GWORMS DAYS)
1-800-182-717

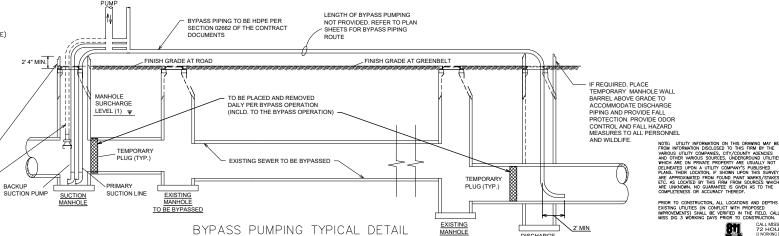
CALL BELL COM. (CO.)

FEBRUARY 2013

DATE
February 2023

NO. C-1

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SCALE:

NONE



HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915 555 HULET DRIVE Bloomfield Hills, Mich.

03-02-2023 REQUEST FOR QUOTE 02-15-2023 ISSUED FOR OWNER REVIEW CHECKED JJS



OAKLAND COUNTY WATER RESOURCES

EVERGREEN-FARMINGTON SANITARY DRAIN **QUARTON LAKE AREA SEWER REHABILITATION**

TASK-1 - 27-INCH SEWER CONDITION ASSESSMENT BLT104002 TO BLT142003

20220986 C-2

555 Hulet Drive Bloomfield Hills, MI 48302-0360

HRC Job No. 20220986

248-454-6300

www.hrcengr.com



September 5, 2023

Oakland County Water Resources Commissioner Building #95 West One Public Works Drive Waterford, MI 48328-1907

Attn: Mr. Drew Sandahl, P.E.

Re: EFSD Quarton Lake Arm Sanitary Sewer Rehabilitation

Proposal for Design Engineering Services (Task 2)

Dear Mr. Sandahl:

Hubbell, Roth & Clark, Inc. (HRC) was authorized to start preliminary design of this sewer rehabilitation project with an initial budget of \$15,000, as described in our proposal dated November 17, 2022. We indicated that a proposal for final design (Task 2) would be provided once the specific scope of the project was better defined after sewer inspection work was completed by WRC's contractor. We are writing this letter to present the effort required to complete the final design of the project, along with the associated fees for engineering services, based on the recommended rehabilitation presented in our technical memo dated August 29, 2023.

Summary of Recommended Rehabilitation Work

The recommended scope-of-work for rehabilitating the sewer segments within the designated project area include cured-in-place pipe (CIPP) lining of one segment that crosses the Rouge River, and "as-needed" sewer joint grouting with chemical grout on the remaining segments. We also recommended that WRC consider CIPP lining for all the segments in the project area as a preventative rehabilitation measure. We note that the proposed design fee will not change if WRC decides to line these other sewer segments. The conceptual construction cost for the recommended rehabilitation work is estimated at \$316,000. If all segments are to be lined, the conceptual construction cost is estimated at \$667,000.

The design engineering phase includes preparing plans and specifications, and assisting WRC with solicitation of contractor bids for the project. Plans and specifications will address the need for bypass pumping, PE design of cured-in-place liners by contractor/manufacturer, and coordination with the City of Birmingham Parks Department.

Design Budget

The preliminary initial design budget for our effort was \$15,000. The last invoice submitted for this project, dated 8/24/23, was for time billed through 8/19/23, and the amount billed up to that date was \$14,994.96. After reviewing our current todate costs, we have slightly surpassed the initial limit based on our time through 9/2/23 as we finished reviewing the CCTV inspection videos and preparing the summary report. We are hereby requesting the additional costs to be included in the authorized budget to complete the final design of the project.

HRC's services during the design phase will include Project Management & Coordination, Supplemental Topographic Survey, Plans & Specifications, Permit Assistance (for RCOC and City of Birmingham as we assume EGLE Part 41 permit is not required for this rehabilitation project), and Bidding Assistance. The fees associated with these services are as follows:

Bloomfield Hills Delhi Township Detroit Grand Rapids Howell Jackson Kalamazoo Traverse City Troy



Task Description	 horized ount	Requested Amount		
Preliminary Design Phase [a (HRC Proposal dated 11/17/22)	additional 15 hours]	\$ 15,000	\$	2,000
Final Design – Plans & Specifications	s [240 hours]		\$	30,000
Bidding Assistance	[80 hours]		\$	10,000
	\$	42,000		

Design Schedule

Upon WRC's authorization to proceed, HRC can immediately begin work on this project. We would expect submittal of "90% complete" plans and specifications for WRC's review within 6 weeks. Assuming a start date of 9/18/23, plans would be submitted for review by 11/3/23. These plans would be sufficient for permit applications, and once received, final bid plans and specifications would be issued. Assuming one month for permit reviews and finalizing plans, the project would be issued for bids around 12/4/23. The type of work included in this project can be completed over the winter months, however, extreme cold weather would negatively impact the contractor's schedule, and times having snowmelt and/or active precipitation causing increased sanitary flows could result in further delays.

Based on the above breakdown, our proposed design engineering budget for the project is \$42,000. The fee will be billed monthly on a time and material basis under the terms and conditions of our engineering services agreement with the Oakland County Water Resources Commissioner, and will not be exceeded without your authorization.

We sincerely appreciate the opportunity to work with WRC on this important project. If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

Accepted By:

HUBBELL, ROTH & CLARK, INC.

Signature:

Written Name:

James J. Surnigh, P.E.

Senior Associate

Title:

Dated:

HRC; D. Mitchell, K. Stickel, File

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MEMORANDUM

TO: Jim Nash, Chairperson of the Evergreen Farmington Sanitary Drain Drainage Board

FROM: Scott Schultz, Project Engineer

SUBJECT: Request for Approval of ASI Engineering Work Order to develop dry and wet weather lateral peak bypass flows as a part of the EFSDDD Southfield Sewer Lining Project Design

DATE: April 9, 2024

Applied Science, Inc. (ASI) will assist Oakland County Water Resources Commissioner (OCWRC) in the development of estimated flow rates for 8 laterals that connect to a portion of the Southfield Area 7 sewer scheduled to be rehabilitated as part of the EFSDDD Southfield Sewer Lining Project. These estimates will aid prospective lining and bypass pumping contractors in sizing pumps needed to handle the flow these laterals convey to the Area 7 sewer.

A detailed breakdown of ASI's scope of work is detailed in the attached Engineering Work Order. ASI is requesting a not-to-exceed amount of \$8,100 for the work. ASI will bill OCWRC on a time and material basis in accordance with the contract standard fee contained in their blanket Contract CON00009183 and schedule.

Requested Action: Approve the attached Engineering Work Order for the development of estimated lateral flow rates on the EFSDDD Southfield Sewer Lining Project in the amount of \$8,100.

Page 1 of 1 Rev.: 02/12/2018

Jim Nash Oakland County Water Resources Commissioner Evergreen-Farmington Sanitary Drain Drainage District For the EFSDDD Southfield Sewer Lining Project Southfield Oakland County, Michigan

Engineering Work Order No.

SS-189(1)

Date: 3/26/2024

To:

Applied Science, Inc.

For:

Estimate of Flow Rates from Lateral Connections to EFSD Interceptor in Area 7

DESCRIPTION

This Engineering Work Order (EWO) is required to define specific tasks and compensation related to the EFSDDD Southfield Sewer Lining Project that will fall under the existing as-needed contract CON00009183. This EWO serves as your approval for compensation of the following services as delineated in your attached proposal to develop dry and wet weather peak flows for the 8 laterals tying into the Area 7 sewer dated March 8, 2024.

Fees for this Engineering Work Order shall be billed on a time and material basis according to the contract standard fee and rate schedule as modified by your proposal. The total amount of the asneeded contract is to be increased by a not to exceed amount of \$8,100. This amount is not to be exceeded without written authorization from this office.

RECOMMENDED DATE: 3/26/24	ACCEPTED DATE: 4/1/2024
By: Scott Schultz	By: Tricky J Min
Scott Schultz	Tim Minor, P.E.
Project Engineer	Vice President
OCWRC	Applied Science, Inc.
APPROVED DATE: 4/2/2024	APPROVED DATE: April, 2, 2024
By: Jel Am	By: Steven Korth
Joel Brown, P.E.	Steven Korth, P.E.
Chief Engineer	Chief Manager
OCWRC	OCWRC
Approved by the Drainage District Board on:	

Department No.:	CCN6010101	Account No.:	SC730639
Fund No:	FND82410	Program No.:	PRG149667
Project No:	PRJ-17455	Project Activity:	ENG
Contract No:	CON00009183	Contract Exp:	08/31/24

CHANGE ORDER NO. 9

Evergreen Farmington Sanitary Drain Drainage District 8 Mile Road CAP 8 Mile Road Pump Station & SSO Chamber Improvements - Phase 1 Southfield Oakland County, Michigan

Authorization for Extras To & Changes In Contract

Department No.: 6010101 Account No.: 730352

Fund No.: FND84410 Program No.: PRG149015

Project No.: PRJ-17452 Project Activity: FAC

Construction Manager at Risk: Contract No.: 6628

Walsh Construction Company II, LLC

3031 W Grand Blvd, Suite 640

Date of Contract: 2/2/2022

Completion Date: 8/13/2027

Detroit, MI 48202

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
9-1	LOCATION: Pump Sta. Floor P5					
	DESCRIPTION (Extra/Add):					
	Walsh PCI 970038 - Additional Chipping at floor P5 for Rebar Installation	LS	1.0	\$8,624.34	\$8,624.34	
	REASON: Following replacement of pump no. 2 suction elbow, Walsh discovered that existing reinforcement steel spacing did not allow installation of rebar couplers as detailed. This additional cost is for added concrete removal to allow placement of staggered rebar couplers. Attachments: PCI 970038 WRC/WCC-020					

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
9-2	LOCATION: Pump Sta. Floor P1-P5					
	DESCRIPTION (Extra/Add): Walsh PCI 970041 - Asbestos Gasket Material for Existing Suction Valves (T&M)	LS	1.0	\$882.48	\$882.48	
	REASON: Upon removal of the suction valves during the replacement of pump nos. 1 and 2, Walsh discovered asbestos gaskets that were concealed from inspection during the design. This additional cost is for asbestos gasket abatement and disposal for these specific pumps. Attachments: PCI 970041 WRC/WCC-022					

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
9-3	LOCATION: EFSDS Pump Station site / Adjacent OCWRC Water Maintenance Facility					
	DESCRIPTION (Extra/Add):					
	Walsh PCI 970034 rev1 - Emergency Generator for OCWRC Water Maintenance Building	LS	1.0	\$209,971.26	\$209,971.26	
	REASON: The pump station scope of work includes separation of the Pump Station and Water Maintenance Builiding electrical feeds. This change will maintain that separation during a DTE power outage. Attachments: Work Directive No. 3 PCI 970034 rev1 WRC/WCC-025					
L				Totals	\$219,478.08	\$0.00
				Net		
				Increase	\$219,478.08	

CHANGE ORDER NO. 9

Evergreen Farmington Sanitary Drain Drainage District 8 Mile Road CAP 8 Mile Road Pump Station & SSO Chamber Improvements - Phase 1 Southfield

Oakland County, Michigan

Prepared by:	Charles & Royly	Date:	2024 04 11
	Charles J. Roarty, Jr., P.E. NTH Consultants		
Recommended by:	Joe Siwek, P.E Consulting Engineer (Fishbeck)	Date:	4/11/2024
Recommended by:	Evagelos Bantios	Date:	4-15-2024
Approved by:	Evagelos Bantios, P.E Project Engineer	Date:	
•	Joel Brown, P.E Chief Engineer es to do the work described above and agrees to accept payme	ent in full	on the basis
Accepted by:	Digitally signed by Joshua Bohanon DN: C=US, E=jbohanon@walshgroup.com, O="Walsh Construction Company II, LLC", OU=Great Lakes Water, CN=Joshua Bohanon Date: 2024.04.12 07:51:50-04'00'	Date:	4/12/2024
	Josh Bohanon - Business Group Leader Walsh Construction Company II, LLC		
Approved by:	Steven Korth	Date:	April 19, 2024
	Steve Korth, P.E. Chief Manager		

The Contractor is hereby authorized and instructed to do the work described above in accordance with the terms of the Contract.

This Change Order was approved by the Drainage Board on:

CHANGE ORDER NO. 9

Evergreen Farmington Sanitary Drain Drainage District 8 Mile Road CAP 8 Mile Road Pump Station & SSO Chamber Improvements - Phase 1 Southfield

Oakland County, Michigan

Project Award Date (Pre-Construction Services) 2/2/2022

Notice to Proceed Date (Construction Phase): n/a

Contract Substantial Completion Date: Friday, February 19, 2027

Contract Final Completion Date: Friday, August 13, 2027

Original GMP Contract Value: n/a

Original Contract Value (Pre-Construction Services): \$848,980.48

GMP Construction Services

Construction Notice to Proceed Date: December 13, 2022

Contract Substantial Completion Date: February 19, 2027

Contract Final Completion Date: August 13, 2027

Original Contract Value: \$

Previous C.O. Values (Change Order nos. 1 to 8): \$ 50,292,966.06

Change Order No. 9 Value \$219,478.08

Adjusted GMP Contract Value \$ 50,512,444.14

Jim Nash, Oakland County Water Resources Commissioner Evergreen Farmington Sanitary Drain Drainage District 8 Mile Road CAP 8 Mile Road Pump Station & SSO Chamber Improvements - Phase 1 Southfield Oakland County, Michigan

Construction Estimate No. 25	March 1, 2024 to Mar. 31, 2024	
Department No.: 6010101 Fund No.: FND84410 Project No.: PRJ-17452 Contractor: Walsh Construction Company II, LLC	Account No.: 730352 Program No.: PRG149015 Activity: FAC Vendor No.: 23191 Contract No.: 6628 Date of Contract: 2/2/2022	
3031 W Grand Blvd, Suite 640 Detroit, MI 48202	Completion Date: 8/13/2027	
Original Contract Amount:	\$0.00	
Previous Change Order Numbers: CO Nos. 1, 2, 3, 4, 5, 6, 7, and 8.	\$50,292,966.06	
Change Orders This Estimate Number:	\$0.00	
Total Net Change Orders:	\$50,292,966.06	
Adjusted Contract Amount:	\$50,292,966.06	
Subtotal To Date: (Sheet 2 of 3 Column 7)	\$18,050,260.58	
Less Deductions to Date: (Sheet 2 of 3 Column 7)	\$0.00	
Gross Estimate: (Work in Place)	35.89% \$18,050,260.58	
Less Amount Reserved: (10% of Gross Estimate)	\$1,805,026.06	
Total Amount Allowed To Date:	\$16,245,234.52	
Less Previous Estimates:	\$13,991,249.52	
Net Payment Request To Be Paid To Contractor:	\$2,253,985.00	
Reserve Payment to Contractor	\$0.00	
Balance of Contract To Date \$32,242,705.48	Accounting Auditor:	
Less Previous Transfers To Reserve:	\$1,554,583.28	
Amount of Current Transfer:	\$250,442.78	
Prepared by:	Date: 2024 04 04	
Recommended by: Charles J. Roarty, Jr., P.E NTH Consult Siwek, P.E Consulting Engineer (Fish		
Recommended by: Togglos Bantios Evagelos Bantios, P.E Project Engine		
Approved by: Joel Brown, P.E Chief Engineer		

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

Approved by Board on:

Jim Nash, Oakland County Water Resources Commissioner Evergreen Farmington Sanitary Drain Drainage District For Construction of 8 Mile Road CAP Phase 2 - 8 Mile Pump Station 54-Inch Relief Forcemain Southfield, Michigan

Construction Estimate No. 7	March 1, 2024	to Mar. 31, 2024
Department No.: 6010101 Fund No.: FND84410 Project No.: PRJ-17452 Contractor:	Account No. : Program No. : Activity : Vendor No. : Contract No. :	PRG149015 FAC 40260
Dan's Excavating, Inc. 12955 23 Mile Road Shelby Township, MI 48315	Date of Contract : Completion Date :	7/17/2023
Original Contract Amount:		\$10,381,154.00
Previous Change Order Numbers: CO Nos. 1 and 2		\$214,293.91
Change Orders This Estimate Number:		\$0.00
Total Net Change Orders:		\$214,293.91
Adjusted Contract Amount:		\$10,595,447.91
Subtotal To Date: (Sheet 2 of 2 Column 7)		\$6,698,224.44
Less Deductions to Date: (Sheet 2 of 2 Column 7)		\$0.00
Gross Estimate: (Work in Place) 63.22%		\$6,698,224.44
Less Amount Reserved: (5% of Adjusted Contract Amount)		\$529,772.40
Total Amount Allowed To Date:		\$6,168,452.04
Less Previous Estimates:		\$4,689,678.13
Net Payment Request To Be Paid To Contractor:		\$1,478,773.91
Reserve Payment to Contractor		\$0.00
Balance of Contract To Date \$3,897,223.47	Accounting Auditor:	
Less Previous Transfers To Reserve:		\$521,075.35
Amount of Current Transfer:		\$8,697.05
Prepared by: Charles J. Roarty, Jr., P.E NTV. Consultants	Date:	2024 04 09
Recommended by: Joe Siwek, P.E Consulting Engineer (Fishbeck)	Date:	4/9/2024
Recommended by: Cvagelos Bantios Evagelos Bantios, P.E Project Engineer	Date:	4-15-2024
Approved by: Joel Brown, P.E Chief Engineer	Date:	
A	Approved by Board on:	

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

Jim Nash, Oakland County Water Resources Commissioner Evergreen Farmington Sanitary Drain Drainage District For Construction of the Lathrup SRT Lathrup Village Oakland County, Michigan

3-16-2024 to 4-5-2024 Construction Estimate No. 6 Department No.: CCN6010101 Account No.: 730352 Fund No.: FND84410 Program No.: PRG149015 Project No.: PRJ-17450 Activity: FAC Vendor No.: 40564 Contract No.: CON00010270 Contractor: Date of Contract: April 19, 2023 Midwest Power Systems 2401 Hickory Oak Lane Completion Date: May 3, 2024 Milford, MI 48380 \$2,318,504.20 Original Contract Amount: Previous Change Order Number (CO #1): \$4,600.00 Change Orders This Estimate (CO #2): \$10,650.00 Total Net Change Orders: \$15,250.00 Adjusted Contract Amount: \$2,333,754.20 Subtotal To Date: (Sheet 2 of 2 Column 7) \$1,814,728.72 Less Deductions to Date: (Sheet 2 of 2 Column 7) \$0.00 Gross Estimate: (Work in Place) 77.76% \$1,814,728.72 Less Amount Reserved: (5% of Adjusted Contract Amount) \$116,687.71 Total Amount Allowed To Date: \$1,698,041.01 Less Previous Estimates: \$1,614,541.01 Net Payment Request To Be Paid To Contractor: \$83,500.00 Reserve Payment to Contractor \$0.00 4/9/2024 \$519,025.48 Accounting Auditor: BR Balance of Contract To Date Less Previous Transfers To Reserve: \$116,687.71 \$0.00 Amount of Current Transfer: Prepared by:

Cvagelos Bantios

Evagelos Bantios, P.E. - Project Engineer Date: 4-15-2024 4-12-2024 Recommended by: ____ Date: John Bergsma, P.E. - Consulting Engineer Approved by: _ Date: Joel Brown, P.E. - Chief Engineer

Approved by Board on:

MEMO TO: Mr. Jim Nash, Chairman

of the Drainage Board for the Evergreen Farmington Sanitary Drain Ch20

FROM: Shawn Phelps, Chief of Fiscal Services

OCWRC Accounting

DATE: April 23, 2024

SUBJECT: Request for Approval of Invoices

The following is a detail of charges paid from the Evergreen Farmington Sanitary Drain Ch20 and Invoices

for Shawn Phelps

Subtotal \$ 193,737.06

Total \$ 384,611.99

Ref Payable To No For Amount Kennedy Industries SINV00252151 Inv# 641277 - Materials and Supplies - Proj #17443 36,231.00 Subtotal - Project #17443 \$ 36,231.00 Hubbell Roth and Clark Inc SINV00250138 Inv# 0215390 - Engineering Services - Proj #17449 25,563.54 Subtotal - Project #17449 \$ 25,563.54 Hubbell Roth and Clark Inc SINV00250605 Inv# 0215222 - Engineering Services - Proj #17450 6,236.13 H and P Technologies SINV00249590 Inv# 1081304 - Materials and Supplies - Proj #17450 3,897.20 Subtotal - Project #17450 \$ 10,133.33 PMA Consultants **TBP** Inv# 04582.00 - 1.0-16 - Professional Services - Proj #17452 5.149.00 Fishbeck SINV00250619 Invoice# 435255 - Engineering Services - Proj #17452 23,071.10 PMA Consultants SINV00249644 Inv# 04582.00 - 1.0-15 - Professional Services - Proj #17452 4,336.00 Meadowbrook Insurancy Agency TBP Inv# 12369 - Insurance - Proj #17452 50,440,00 Subtotal - Project #17452 \$ 82,996.10 Fishbeck SINV00253571 Invoice# 434781 - Engineering Services - Proj #17455 6,564.00 JMK Engineering, Inc. SINV00253309 Invoice# 1692 - Professional Services - Proj #17455 4,862.00 JMK Engineering, Inc. SINV00249588 Invoice# 1670 - Professional Services - Proj #17455 2,618.00 Subtotal - Project #17455 \$ 14,044.00 JMK Engineering, Inc. SINV00253309 Invoice# 1692 - Professional Services - Proj #17459 3.179.00 DLZ Michigan Inc SINV00250062 Invoice# 000400301 - Engineering Services - Proj #17459 6.981.00 JMK Engineering, Inc. SINV00249588 Invoice# 1670 - Professional Services - Proj #17459 2.898.50 Subtotal - Project #17459 \$ 13,058.50 JMK Engineering, Inc. SINV00253309 Invoice# 1692 - Professional Services - Proj #17554 1.028.50 DLZ Michigan Inc SINV00252272 Invoice# 000400282 - Engineering Services - Proj #17554 3,443.32 Subtotal - Project #17554 \$ 4,471.82 JMK Engineering, Inc. SINV00253309 Invoice# 1692 - Professional Services - Proj #17555 1,122.00 DLZ Michigan Inc SINV00252273 Invoice# 000400292 - Engineering Services - Proj #17555 3,254.64 Subtotal - Project #17555 \$ 4,376.64 ADS LLC SINV00250058 Inv# 35801-0124-A-R1 - Contracted Services 51,950.00 ADS LLC Inv# 35801-0124-K-R1 - Contracted Services SINV00250060 4,725.00 ICS Integration Services LLC SINV00250813 Invoice# 2920 - Contracted Services 1,190.00 ADS LLC SINV00251677 Inv# 35801-0124-I-R1 - Contracted Services 2,770.00 Orchard Hiltz and McCliment Inc SINV00252972 Inv# 73804 - Professional Services 1,758.75 MacAllister Machinery Co Inc SINV00254338 Inv# SD15957242 - Contracted Services 2,364.19 Pipeline Management Company SINV00254734 Invoice# 24-01253 - Contracted Services 5,955.75 Kotz Sangster Wysocki PC SINV00254784 Inv# 598961 - Legal Services 3,311.37 Pipeline Management Company TBP Inv# 24-01163 - Contracted Services 53,967.00 Pipeline Management Company TBP Inv# 24-01193 - Contracted Services 65,745.00

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

2. Acacia Park CSO

AGENDA

DRAINAGE BOARD FOR THE ACACIA PARK CSO DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of March 26, 2024
- 3. Public Comments
- 4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$1,221,390.00
- 5. Present request for reimbursement of the Evergreen Farmington Fund in the amount of \$103,519.26
- 6. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$115,624.00
- 7. Other business
- 8. Approve pro rata payment to Drainage Board members
- 9. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE ACACIA PARK CSO DRAIN

March 26, 2024

A meeting of the Drainage Board for the Acacia Park CSO Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 26th day of March 2024.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held February 27, 2024, were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2

Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$8,086.32 (as attached) was presented. It was moved by Markham, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$8,086.32.

ADOPTED: Yeas - 2

Navs - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2

Nays - 0

There being no further business, the meeting was adjourned.

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Acacia Park CSO Drain, Oakland County, Michigan, held on the 26th day of March 2024, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Acacia Park CSO Drain Drainage District.

Jim Nash, Chairperson

Dated: March 26, 2024

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE

Acacia Park CSO Drain

		
Assessment for the following year of expenses: <u>July 1, 2024 through</u>	ough June 3	<u>30, 2025</u>
Last Assessment (\$):	\$	1,153,770.00
Date last assessment approved:	Ψ	5/23/23
Unreserved and Undesignated Fund Balance as of 2/29/24	\$	141,381.23
Capital Improvement Reserves as of 2/29/24		948,026.43
Major Maintenance Reserves as of 2/29/24		256,232.82
CSO Equipment Reserves (MDEQ) as of 2/29/24		350,000.00
Reserves for Encumbrances as of 2/29/24		0.00
Total Fund Balance at 2/29/2024	\$	1,695,640.48
OPERATIONS, MAINTENANCE & REPLACEMENT BUD	GET for J	July 1, 2024 throu
Operating Expenses		
Sewage Treatment	\$	433,710.00
Sewer System Maintenance	\$	38,730.00
Sewer System Engineering	\$	29,570.00
Pump Maintenance Unit	\$	288,020.00
Systems Control Unit	\$	7,990.00
Laboratory	\$	2,330.00
Mapping Unit	\$	990.00
General and Administrative	\$	46,760.00
Total Operating Expenses	\$	848,100.00
Revenue Requirements		
Operating Expense	\$	848,100.00
Major Maintenance	\$	180,000.00
Capital	\$	220,000.00
Total Revenue Requirements	\$	1,248,100.00
Non-Rate Revenue	\$	(26,710.00)
Rate Required Revenue	\$	1,221,390.00
Recommended July 1, 2024 through June 30, 2025 assessment	<u>t:</u>	
Total Anticipated Expenses for July 1, 2024 - June 30, 2025	\$	1,221,390.00
Total Anticipated Funds Needed	\$	1,221,390.00
<u>r</u>	4	-,1,0/0.00
TOTAL RECOMMENDED ASSESSMENT	\$	1,221,390.00
Billings are to be at the end of the calendar quarters.	-	•
Prepared by: Leo Lease	Date	4/10/2024

Prepared by:	Date: 4/10/2024
Leo Lease - Senior Financial Analyst	
Approved by:	Date:
Gary Nigro - Manager, Water Resources Commissioner	

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE ACACIA PARK CSO DRAIN

Public Corporation	Percentage of Apportionment	Total Amount of Assessment	
Village of Beverly Hills	68.16%	\$	832,499.42
City of Birmingham	28.83%	\$	352,126.74
County of Oakland	3.01%	\$	36,763.84
Total	100.00%	\$	1,221,390.00

Assessment Due Date: To be collected on the following quarters: 9/30/2024, 12/31/2024, 3/31/2025 and 6/30/2025.

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Acacia Park CSO Drain for the period July 1, 2024 through June 30, 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

Jim Nash
Chairman of the Drainage Board for the Acacia Park CSO Drain
The foregoing Special Assessment Roll for the maintenance of the Acacia Park CSO Drain was approved by the Drainage Board on
C Mask
Jim Nash
Chairman of the Drainage Board for the Acacia Park CSO Drain

C:\Users\leasel\Documents\CH20\FY2024\[RTB CSO Assessment.xlsm]Acacia CSO 04/10/24

MEMO TO: Mr. Jim Nash, Chairman

of the Drainage Board for the ACACIA PARK CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services

OCWRC Accounting

(for Shawn Phelps

DATE: April 23, 2024

SUBJECT: Request for Reimbursement of Evergreen Farmington Fund

The following is a detail of charges paid from the Evergreen Farmington Fund

for the period ending April 17, 2024.

	Ref		
Date	No.	For	Amount
01/31/24	JE# 023585	Jan 2024 Storm Water Flow Charges	\$34,506.42
02/29/24	JE# 024589	Feb 2024 Storm Water Flow Charges	34,506.42
03/31/24	JE# 025557	Mar 2024 Storm Water Flow Charges	34,506.42
		Total	\$103,519.26

MEMO TO:

Mr. Jim Nash, Chairman

of the Drainage Board for the ACACIA PARK CSO DRAIN # for Shawn Phelps

FROM: Shawn Phelps, Chief of Fiscal Services

OCWRC Accounting

DATE: April 23, 2024

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices

for the period ending April 17, 2024

Ref

G/L Date

Paid To

For

Invoice # Estimate No 1 PRJ-17317 - Contracted Services - Proj 1-7317

Amount \$ 115,624.00

No. 4/1/2024

V # SINV00250996 Weiss Construction Co LLC

Total Project 1-7317

\$ 115,624.00

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

3. Birmingham CSO

AGENDA

DRAINAGE BOARD FOR THE BIRMINGHAM CSO DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of March 26, 2024
- 3. Public Comments
- 4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$1,264,100.00
- 5. Present request for reimbursement of the Evergreen Farmington Fund in the amount of \$109,761.51
- 6. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$14,513.02
- 7. Other business
- 8. Approve pro rata payment to Drainage Board members
- 9. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE BIRMINGHAM CSO DRAIN

March 26, 2024

A meeting of the Drainage Board for the Birmingham CSO Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 26th day of March 2024.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held February 27, 2024, were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2

Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$8,552.11 (as attached) was presented. It was moved by Markham, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$8,552.11.

ADOPTED: Yeas - 2

Navs - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2

Nays - 0

There being no further business, the meeting was adjourned.

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Birmingham CSO Drain, Oakland County, Michigan, held on the 26th day of March 2024, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for Birmingham CSO Drain Drainage District.

Jim Nash, Chairperson

Dated: March 26, 2024

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE

Birmingham CSO Drain

Assessment for the following year of expenses: July 1, 2024 thr	ough June 3	<u>30, 2025</u>
Last Assessment (\$):	\$	1,090,020.00
Date last assessment approved:		5/23/23
Unreserved and Undesignated Fund Balance as of 2/29/24	\$	44,962.25
Capital Improvement Reserves as of 2/29/24		138,380.95
Major Maintenance Reserves as of 2/29/24		336,916.54
CSO Equipment Reserves (MDEQ) as of 2/29/24		480,000.00
Reserves for Encumbrances as of 2/29/24		0.00
Total Fund Balance at 2/29/2024	\$	1,000,259.74
OPERATIONS, MAINTENANCE & REPLACEMENT BUI	OGET for J	July 1, 2024 through June 30, 2
Operating Expenses Sewage Treatment	¢	468,410.00
Sewer System Maintenance	\$ \$	39,710.00
Sewer System Engineering	\$	23,960.00
Pump Maintenance Unit	\$	326,370.00
System Control Unit	\$	10,300.00
Laboratory	\$	1,990.00
Mapping Unit	\$ \$	4,110.00
General and Administrative	\$	51,370.00
Total Operating Expenses	\$ \$	926,220.00
		,
Revenue Requirements		
Operating Expense	\$	926,220.00
Major Maintenance	\$	190,000.00
Capital	\$	165,000.00
Total Reserves	\$	1,281,220.00
Non-Rate Revenue	\$	(17,120.00)
Grand Total	\$	1,264,100.00
Recommended July 1, 2024 through June 30, 2025 assessmen	<u>ıt:</u>	
Total Anticipated Expenses for July 1, 2024 - June 30, 2025	\$	1,264,100.00
Total Anticipated Funds Needed	\$	1,264,100.00
TOTAL RECOMMENDED ASSESSMENT	\$	1,264,100.00
D'II' / 1 / / 1 C/1 1 1 /		<u> </u>

Prepared by: Leo Lease - Senior Financial Analyst

Approved by: Date:

Gary Nigro - Manager, Water Resources Commissioner

Billings are to be at the end of the calendar quarters.

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE BIRMINGHAM CSO DRAIN

Public Corporation	Percentage of Apportionment	Total Amount of Assessment	
City of Birmingham	96.86%	\$	1,224,407.26
County of Oakland	0.29%	\$	3,665.89
State of Michigan	2.85%	\$	36,026.85
Total	100.00%	\$	1,264,100.00

Assessment Due Date: To be collected on the following quarters: 9/30/2024, 12/31/2024, 3/31/2025 and 6/30/2025.

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Birmingham CSO Drain for the period July 1, 2024 through June 30, 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

Jim Nash
Chairman of the Drainage Board for the Birmingham CSO Drain
The foregoing Special Assessment Roll for the maintenance of the Birmingham CSO Drain
was approved by the Drainage Board on .
Jim Nash
Chairman of the Drainage Board for the Birmingham CSO Drain

 $C: Users \\ lease \\ | Documents \\ CH20 \\ | FY2024 \\ | RTB CSO Assessment.x \\ | Birmingham CSO \\ 04/10/24 \\ | RTB CSO Assessment.x \\ | Birmingham CSO \\ 04/10/24 \\ | RTB CSO Assessment.x \\ | Birmingham CSO \\ 04/10/24 \\ | RTB CSO Assessment.x \\ | Birmingham CSO \\ 04/10/24 \\ | RTB CSO Assessment.x \\ | Birmingham CSO \\ 04/10/24 \\ | RTB CSO Assessment.x \\ | Birmingham CSO \\ 04/10/24 \\ | Birmingham$

MEMO TO: Mr. Jim Nash, Chairman

of the Drainage Board for the BIRMINGHAM CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services

OCWRC Accounting

DATE: April 23, 2024

SUBJECT: Request for Reimbursement of Evergreen Farmington Fund

The following is a detail of charges paid from the Evergreen Farmington Fund

H for Shawn Phelps

for the period ending April 17, 2024.

	Ref		
Date	No.	For	Amount
01/31/24	JE# 023585	Jan 2024 Storm Water Flow Charges	\$36,587.17
02/29/24	JE# 024589	Feb 2024 Storm Water Flow Charges	36,587.17
03/31/24	JE# 025557	Mar 2024 Storm Water Flow Charges	36,587.17
		Total	\$109,761.51

мемо то:

Mr. Jim Nash, Chairman

of the Drainage Board for the BIRMINGHAM CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services for 5 hawn Phelps
OCWRC Accounting

DATE: April 23, 2024

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices

for the period ending April 17, 2024

	Ref					
G/L Date	No.	Paid To	For		Amount	
4/15/2024	V # SINV00254762	JCI Jones Chemical Inc	Invoice # 937509 - Chlorination Supplies	—	\$ 10,501.2	25
			То	tal	\$ 10,501.2	25
4/1/2024	V # SINV00251021	Shaw Service & Maintenance	Invoice # 910010925 - Contracted Services - Proj 1-6097 Total Project 1-6	097	\$ 4,011.7 \$ 4,011.7	_
			Grand To	tal .	\$ 14.513.0	02

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

4. Bloomfield Village CSO

AGENDA

DRAINAGE BOARD FOR THE BLOOMFIELD VILLAGE CSO DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of March 26, 2024
- 3. Public Comments
- 4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$2,079,140.00
- 5. Present request for reimbursement of the Evergreen Farmington Fund in the amount of \$140,973.00
- 6. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$15,966.74
- 7. Other business
- 8. Approve pro rata payment to Drainage Board members
- 9. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE BLOOMFIELD VILLAGE CSO DRAIN

March 26, 2024

A meeting of the Drainage Board for the Bloomfield Village CSO Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 26th day of March 2024.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held February 27, 2024, were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2

Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$38,162.38 (as attached) was presented. It was moved by Markham, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$38,162.38.

ADOPTED: Yeas - 2

Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2

Nays - 0

There being no further business, the meeting was adjourned.

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Bloomfield Village CSO Drain, Oakland County, Michigan, held on the 26th day of March 2024, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for Bloomfield Village CSO Drain Drainage District.

Jim Nash, Chairperson

Dated: March 26, 2024

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE

Bloomfield Village CSO Drain

Assessment for the following year of expenses: July 1, 2024 through June 30, 2025

Last Assessment (\$): Date last assessment approved:	\$ 1,943,690.00 5/23/23
Unreserved and Undesignated Fund Balance as of 2/29/24 Capital Improvement Reserves as of 2/29/24 Major Maintenance Reserves as of 2/29/24 CSO Equipment Reserves (MDEQ) as of 2/29/24 Reserves for Encumbrances as of 2/29/24 Total Fund Balance at 2/29/2024	\$ (180,545.22) (12,083.10) 310,407.45 480,000.00 0.00 597,779.13

gh June 30, 2025

OPERATIONS, MAINTENANCE & REPLACEMENT BUDGE	ET for J	uly 1, 2024 throug
Operating Expenses		
Sewage Treatment	\$	585,220.00
Sewer System Maintenance	\$	60,760.00
Sewer System Engineering	\$	37,290.00
Pump Maintenance Unit	\$	347,800.00
Systems Control Unit	\$	10,630.00
Laboratory	\$	2,730.00
Mapping Unit	\$	1,610.00
General and Administrative	\$	58,280.00
Total Operating Expenses	\$	1,104,320.00
Revenue Requirements		
Operating Expense	\$	1,104,320.00
Major Maintenance	\$	330,000.00
Capital	\$	660,000.00
Total Revenue Requirements	\$	2,094,320.00
Non-Rate Revenue	\$	(15,180.00)
Rate Required Revenue	\$	2,079,140.00
Recommended July 1, 2024 through June 30, 2025 assessment:		
Total Anticipated Expenses for July 1, 2024 - June 30, 2025	\$	2,079,140.00
Total Anticipated Funds Needed	\$	2,079,140.00
TOTAL RECOMMENDED ASSESSMENT Billings are to be at the end of the calendar quarters.	\$	2,079,140.00
Prepared by: Leo Lease Leo Lease - Senior Financial Analyst	_ Date:_	4/10/2024
Approved by: Gary Nigro - Manager, Water Resources Commissioner	_ Date:_	

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE BLOOMFIELD VILLAGE CSO DRAIN

Public Corporation	Percentage of Apportionment	Total Amount of Assessment	
City of Birmingham	22.095%	\$	459,385.98
Charter Township of Bloomfield	54.830%	\$	1,139,992.46
City of Bloomfield Hills	6.784%	\$	141,048.86
County of Oakland	16.291%	\$	338,712.70
Total	100.000%	\$	2,079,140.00

Assessment Due Date: To be collected on the following quarters: 9/30/2024, 12/31/2024, 3/31/2025 and 6/30/2025.

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Bloomfield Village CSO Drain for the period July 1, 2024 through June 30, 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

Jim Nash
Chairman of the Drainage Board for the Bloomfield Village CSO Drain
č č
The foregoing Special Assessment Roll for the maintenance of the Bloomfield Village CSO Drain
was approved by the Drainage Board on
Jim Nash
Chairman of the Drainage Board for the Bloomfield Village CSO Drain

 $\label{locuments} $$CH20\FY2024\[RTB\ CSO\ Assessment.xlsm]$ Bloomfield\ Vill\ CSO\ 04/10/24$

MEMO TO: Mr. Jim Nash, Chairman

of the Drainage Board for the BLOOMFIELD VILLAGE CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services

OCWRC Accounting

DATE: April 23, 2024

SUBJECT: Request for Reimbursement of Evergreen Farmington Fund

The following is a detail of charges paid from the Evergreen Farmington Fund

H for Shown Phelps

for the period ending April 15, 2024.

	Ref	•	
Date	No.	For	Amount
01/31/24	JE# 023585	Jan 2024 Storm Water Flow Charges	\$46,991.00
02/29/24	JE# 024589	Feb 2024 Storm Water Flow Charges	46,991.00
03/31/24	JE# 025557	Mar 2024 Storm Water Flow Charges	46,991.00
		Total	\$140,973.00

MEMO TO: Mr. Jim Nash, Chairman

of the Drainage Board for the BLOOMFIELD VILLAGE CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services

OCWRC Accounting

(for Snawn Phelps

DATE: April 23, 2024

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices

for the period ending April 17, 2024

Ref

G/L Date No. Paid To 4/4/2024 V # SINV00254764 Kennedy Industries Inc Invoice # 641322 - Contract Services

> \$ 15,966.74 Total

Amount

15,966.74

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

5. George W. Kuhn Drain

AGENDA

DRAINAGE BOARD FOR THE GEORGE W. KUHN DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of March 26, 2024
- 3. Public Comments
- 4. Present Memorandum from Gary Nigro, P.E., Manager, dated April 23, 2024, requesting the Board approve the rates and charges for the rate year beginning July 1, 2024
- 5. Present Memorandum from Lynne Seymour, P.E., Chief Engineer, dated April 23, 2024, requesting the Board authorize the hiring of Drummond Carpenter, PLLC to prepare the Environmental Protection Agency Community Change grant application for a not-to-exceed price of \$50,456
- 6. Present Memorandum from Stephanie Petriello, Environmental Planner, requesting the Board award the construction contract with Michigan Lawn Maintenance, Inc. doing business as Sherman Nursery Farms for a not-to-exceed price of \$123,107.62
- 7. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$205,063.16
- 8. Other business
- 9. Approve pro rata payment to Drainage Board members
- 10. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE GEORGE W. KUHN DRAIN

March 26, 2024

A meeting of the Drainage Board for the George W. Kuhn Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 26th day of March 2024.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held February 27, 2024, were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2 Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A memorandum George Nichols, P.E., Assistant Chief Engineer, dated March 26, 2024, requesting the Board retain the services of Hubbell, Roth & Clark for the not-to-exceed amount of \$49,950 and authorize the Chairperson to sign the proposal on behalf of the Drainage Board was presented. It was moved by Markham, supported by Nash, to authorize the retention of services from Hubbell, Roth & Clark for the not-to-exceed amount of \$49,950 as presented and authorize the Chairperson to sign the proposal on behalf of the Drainage Board.

ADOPTED: Yeas - 2 Nays - 0

A memorandum from George Nichols, P.E., Assistant Chief Engineer, dated March 26, 2024, requesting the Board award the construction contract to Pipeline Management Company in the amount of \$510,522.20 and authorize the Chairperson to execute the contract was presented. It was moved by Markham, supported by Nash, to award the construction contract to Pipeline Management Company in the amount of \$510,522.20 and authorize the Chairperson to execute the contract as presented.

ADOPTED: Yeas - 2 Nays - 0

A memorandum from Stephanie Petriello, Environmental Planner, dated March 26, 2024, requesting the Board authorize the Chairperson to execute the construction contact

with TSP Services, Inc. for a not-to-exceed price of \$395,392 and increase the GWK Parking Lot and Green Infrastructure project budget by \$550,000 was presented. It was moved by Markham, supported by Nash, to authorize the Chairperson to execute the construction contact with TSP Services, Inc. for a not-to-exceed price of \$395,392 and increase the GWK Parking Lot and Green Infrastructure project budget by \$550,000 as presented.

ADOPTED: Yeas - 2 Nays - 0

Construction Estimate No. 1 for Doetsch Environmental Services for Construction of the 2023 GWK Sewer Cleaning and Inspection in the amount of \$344,846.09 with a transfer to the Oakland County Treasurer in the amount of \$34,277.66 was presented. It was moved by Markham, supported by Nash, to approve Construction Estimate No. 1 for Doetsch Environmental Services for Construction of the 2023 GWK Sewer Cleaning and Inspection in the amount of \$344,846.09 with a transfer to the Oakland County Treasurer in the amount of \$34,277.66 as presented.

ADOPTED: Yeas - 2 Nays - 0

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$198,096.78 (as attached) was presented. It was moved by Markham, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$198,096.78.

ADOPTED: Yeas - 2 Nays - 0

A motion was made by Markham, supported by Nash, to enter into closed session at 2:18 p.m. to consider material exempt from discussion or disclosure as subject active litigation pursuant to section 8(e) of the Freedom of Information Act.

ADOPTED: Yeas - 2 Nays - 0

Chairperson Nash declared the closed session ended at 3:07 p.m.

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2 Nays - 0

There being no further business, the meeting was adjourned.

Jim Nash, Chairperson

Page 2 of 3

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the George W. Kuhn Drain, Oakland County, Michigan, held on the 26th day of March 2024, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for George W. Kuhn Drain Drainage District.

Jim Nash, Chairperson

Dated: March 26, 2024

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MEMORANDUM

TO: Jim Nash, Chairperson

George W. Kuhn Drain Drainage District

FROM: Gary Nigro, P.E., Manager

SUBJECT: FY 2024-2025 Rate Recommendation

DATE: April 23, 2024

The purpose of this memorandum is to communicate a recommendation to the Board of the George W. Kuhn Drain Drainage District (GWK) detailing the proposed monthly charges to our customer communities based on approved Great Lakes Water Authority (GLWA) monthly charges for its fiscal 2024-25 rate year.

The attached monthly charges were presented to the GWK customer communities on April 16, 2024. Community representatives were advised that we would continue to follow the rate share calculation based on a five-year average of water volume to determine each community's monthly sewage charge. These percentages are reviewed annually during the rate-setting process. The stormwater charge continues to be based on the apportionment percentages previously adopted by the Board. The revised monthly charges for services will be billed effective July 2024.

Increases in operating, major maintenance, and capital improvement expenses result in an overall 2.6% increase from the previous year for combined sewage and stormwater charges. Please refer to the attached Schedule of Rates and Charges for a list of charges for each community. Detailed worksheets, including a Financial Summary, Monthly Charge Schedule, and Share and Monthly Charge Comparison, are also attached.

Recommended Action: Approve the rates and charges for the rate year beginning July 1, 2024, as presented.

Great Lakes Water Authority Proposed FY 2025 Sewage Disposal System Service Charges and Allocated Revenue Requirements Proposed Effective Date: July 1, 2024

Projected Revenue from Charges
74,910,000
57,848,400
48,309,600
37,912,800
26,100,000
21,496,800
2,790,000
1,990,800
1,645,200
1,254,000
1,098,000
883,200
1,226,400
4,981,200
4,497,600
170,400
352,800
50,400
287,517,600
14,153,700
301,671,300
211,440,800
-5,516,000
205,924,800
34,873,500
-1,166,800
33,706,700
239,631,500
57,986,800
91,693,500
297,618,300
_

Great Lakes Water Authority Approved FY 2025 Sewage Disposal System Industrial Specific Retail Charges Effective Date: July 1, 2024

Industrial Waste Control Charges

Meter Size	Full Charge	Admin Only Charge
inches	\$/mo	\$/mo
5/8	3.72	0.93
3/4	5.58	1.40
1	9.30	2.33
1-1/2	20.46	5.12
2	29.76	7.44
3	53.94	13.49
4	74.40	18.60
6	111.60	27.90
8	186.00	46.50
10	260.40	65.10
12	297.60	74.40
14	372.00	93.00
16	446.40	111.60
18	520.80	130.20
20	595.20	148.80
24	669.60	167.40
30	744.00	186.00
36	818.40	204.60
48	892.80	223.20

Pollutant Surcharges						
Charge						
\$/lb						
0.392						
0.002						
0.525						
7.571						
0.125						
0.125						
38.00						

APPROVED FY 2025 CHARGES 2/28/2024

George W. Kuhn Sewage and Twelve Towns 58510 and 58530

Financial Summary

2023 2024 2025		
Actual Budget Forecast	Inc / (Dec)	% Variance
	11107 (200)	70 Variance
Operating Revenues		
Operating Rate Revenue \$ 23,920,220.13 \$ 23,895,260.00 \$ 25,030,420.00	\$ 1,135,160.00	4.8%
Operating Non-Rate Revenue 437,270.55 115,720.00 299,040.00	183,320.00	158.4%
Operating Revenues \$ 24,357,490.68 \$ 24,010,980.00 \$ 25,329,460.00	\$ 1,318,480.00	5.5%
Operating Expenses		
Sewage Treatment \$ 21,778,294.50 \$ 21,873,920.00 \$ 22,705,510.00	\$ 831,590.00	3.8%
Sewer System Maintenance 319,278.85 276,010.00 347,090.00	71,080.00	25.8%
Sewer System Engineering 74,779.35 85,670.00 68,520.00	(17,150.00)	-20.0%
Water Purchases	-	
Water Maintenance Unit	-	
Water Systems Engineering	-	
Septage Unloading Facility	- 0.470.00	07.70/
Pump Maintenance Unit 22,991.26 16,380.00 22,550.00	6,170.00	37.7%
Systems Control Unit 144,035.26 192,330.00 188,480.00	(3,850.00)	-2.0% 20.8%
Plan Review and Permitting 165,246.27 112,810.00 136,300.00 Inspection 3,920.48 7,230.00 5,290.00	23,490.00 (1,940.00)	
·	('	-26.8%
IPP 13,212.44 - 11,510.00 Laboratory	11,510.00	
Mapping Unit 12,111.26 19,300.00 15,330.00	(3,970.00)	-20.6%
Miss Dig - 1,270.00 590.00	(680.00)	-53.5%
Billing Services Unit - 1,270.00 390.00	(000.00)	-55.570
General and Administrative 1,718,634.29 1,426,060.00 1,828,290.00	402,230.00	28.2%
Total Operating Expenses 24,252,503.96 24,010,980.00 25,329,460.00	1,318,480.00	5.5%
Net Income \$ 104,986.72 \$ - \$ -	\$ -	0.070
<u> </u>	-	
Depreciation	-	
Reserves		
Non-Operating Revenue \$ 450,000.03 \$ 300,000.00 \$ 130,000.00	\$ (170,000.00)	-56.7%
Non-Operating Expense	-	00.1 70
Major Maintenance Reserve Revenue 1,056,762.18 1,179,000.00 1,179,000.00	_	0.0%
Major Maintenance Reserve Expense (497,265.16) (1,376,230.00) (2,638,990.00)	(1,262,760.00)	91.8%
Emergency Reserve Revenue 99,999.99 100,000.00 100,000.00	(',===,' '==',' '==',	0.0%
Emergency Reserve Expense	_	
Capital Reserve Revenue 1,390,500.18 1,390,500.00 1,600,000.00	209,500.00	15.1%
Capital Reserve Expense (53,043.86) (1,411,440.00) (1,905,460.00)	(494,020.00)	35.0%
Change in Net Assets \$ 2,551,940.08 \$ 181,830.00 \$ (1,535,450.00)	\$ (1,717,280.00)	-944.4%
Rate Revenue		
Revenue Requirements:		
Operating Expense \$ 24,252,503.96 \$ 24,010,980.00 \$ 25,329,460.00	\$ 1,318,480.00	5.5%
Non-Operating 450,000.03 300,000.00 130,000.00	(170,000.00)	
Major Maintenance 1,056,762.18 1,179,000.00 1,179,000.00	- '	0.0%
Emergency Maintenance 99,999.99 100,000.00 100,000.00	-	0.0%
Capital 1,390,500.18 1,390,500.00 1,600,000.00	209,500.00	15.1%
Total Revenue Requirements \$ 27,249,766.34 \$ 26,980,480.00 \$ 28,338,460.00	\$ 1,357,980.00	5.0%
Mars Data Davierres		00.00/
Non-Rate Revenue \$ (711,322.71) \$ (294,720.00) \$ (478,040.00) Rate Required Revenue \$ 26,538,443.63 \$ 26,685,760.00 \$ 27,860,420.00	\$ (183,320.00) \$ 1,174,660.00	62.2% 4.4%

George W. Kuhn Pollution Control

58520

Financial Summary

	2023		2024		2025			
	Actual		Budget		Forecast		Inc / (Dec)	% Variance
•			<u> </u>				, ,	-
Operating Revenues								
Operating Rate Revenue	\$ 28,453,020.42	\$	29,437,170.00	\$	29,265,870.00	\$	(171,300.00)	-0.6%
Operating Non-Rate Revenue	529,544.77		103,960.00		285,080.00		181,120.00	174.2%
Operating Revenues	\$ 28,982,565.19	\$	29,541,130.00	\$	29,550,950.00	\$	9,820.00	0.0%
Onereting Frances								
Operating Expenses Sewage Treatment	\$ 24,843,570.26	ф	25,883,700.00	¢	25,710,110.00	Ф	(173,590.00)	-0.7%
	381,764.21	Φ	326,640.00	Φ	363,620.00	\$	36,980.00)	11.3%
Sewer System Maintenance Sewer System Engineering	435,425.48		627,450.00		583,030.00		(44,420.00)	-7.1%
Water Purchases	433,423.46		027,430.00		363,030.00		(44,420.00)	-7.170
Water Maintenance Unit	-		-		-		-	
Water Systems Engineering	-		-		-		-	
Septage Unloading Facility	506.00		-		-		-	
Pump Maintenance Unit	1,490,229.36		1,498,080.00		1,620,640.00		122,560.00	8.2%
Systems Control Unit	64,343.30		67,230.00		67,870.00		640.00	1.0%
-	04,343.30		07,230.00		07,070.00		040.00	1.070
Plan Review and Permitting	-		350.00		350.00		-	0.0%
Inspection IPP	-		330.00		330.00		-	0.076
Laboratory	6,051.33		11,480.00		9,560.00		(1,920.00)	-16.7%
Mapping Unit	990.51		1,970.00		2,250.00		280.00	14.2%
Miss Dig	990.51		1,970.00		2,230.00		200.00	14.2 /0
Billing Services Unit	-		-		-		-	
General and Administrative	1,103,659.74		1,124,230.00		1,193,520.00		69,290.00	6.2%
Total Operating Expenses	28,326,540.19		29,541,130.00		29,550,950.00		9,820.00	0.0%
Net Income	\$ 656,025.00	\$	29,341,130.00	\$	29,330,930.00	\$	9,020.00	0.0 76
Net moone	Ψ 000,020.00	Ψ		Ψ		Ψ		
Depreciation	-		-		-		-	
Reserves								
Non-Operating Revenue	\$ 511.88	\$	_	\$	_	\$	_	
Non-Operating Expense	(75,865.46)		_	Ψ	_	Ψ	_	
Major Maintenance Reserve Revenue	413,702.46		700,000.00		1,200,000.00		500,000.00	71.4%
Major Maintenance Reserve Expense	(272,666.80)		(1,218,840.00)		(1,231,740.00)		(12,900.00)	1.1%
Emergency Reserve Revenue	50,000.04		50,000.00		50,000.00		-	0.0%
Emergency Reserve Expense	(13,450.51)		-		-		_	0.070
Capital Reserve Revenue	659,770.08		1,000,000.00		1,000,000.00		_	0.0%
Capital Reserve Expense	(154,172.14)		(1,888,320.00)		(1,354,910.00)		533,410.00	-28.2%
Change in Net Assets	\$ 1,263,854.55	\$	(1,357,160.00)	\$	(336,650.00)	\$		-75.2%
Rate Revenue	· · ·		, , ,		, , ,		, ,	
Nate Nevenae								
Revenue Requirements:								
Operating Expense	\$ 28,326,540.19	\$	29,541,130.00	\$	29,550,950.00	\$	9,820.00	0.0%
Non-Operating	511.88	+	-	7	-	•	-	2.2.0
Major Maintenance	413,702.46		700,000.00		1,200,000.00		500,000.00	71.4%
Emergency Maintenance	50,000.04		50,000.00		50,000.00		-	0.0%
Capital	659,770.08		1,000,000.00		1,000,000.00		_	0.0%
Total Revenue Requirements	\$ 29,450,524.65	\$	31,291,130.00	\$	31,800,950.00	\$	509,820.00	1.6%
Non-Rate Revenue	\$ (530,056.65)	\$	(103,960.00)	\$	(285,080.00)	\$	(181,120.00)	174.2%
Rate Required Revenue	\$ 28,920,468.00	\$	31,187,170.00		31,515,870.00	\$	328,700.00	1.1%
•								

SEWAGE CHARGE

Flat Rate Sewage Charge	 Effective July 1, 2024 Annual Charge
GLWA Purchased Expense	\$ 22,705,510.00
OCWRC Operating Expense	2,623,950.00
Non-Operating	130,000.00
Major Maintenance Reserve	1,000,000.00
Emergency Maintenance Reserve	100,000.00
Capital Improvement Reserve	1,600,000.00
Less: Misc. Revenue	(299,040.00)
Total:	\$ 27,860,420.00

	tive July 1, 2024 Inual Charge	tive July 1, 2024 onthly Charge
City of Berkley	\$ 1,128,625	\$ 94,052.07
Village of Beverly Hills	78,567	6,547.24
City of Birmingham	889,305	74,108.75
City of Clawson	851,971	70,997.58
City of Ferndale	1,555,169	129,597.43
City of Hazel Park	1,112,188	92,682.35
City of Huntington Woods	525,170	43,764.15
City of Madison Heights	2,732,549	227,712.41
City of Oak Park	2,108,476	175,706.34
City of Pleasant Ridge	242,107	20,175.59
City of Royal Oak	5,508,283	459,023.57
Royal Oak Twp	236,814	19,734.48
City of Southfield	1,751,584	145,965.34
City of Troy	8,799,993	733,332.76
Detroit Zoological Park	302,565	25,213.75
County of Oakland	-	-
Rackham Golf Course	37,054	3,087.83
State Of Michigan	 -	 -
Total	\$ 27,860,420	\$ 2,321,701.64

STORM CHARGE

Flat Rate Storm Charge	E	ffective July 1, 2024 Annual Charge
GLWA Purchased Expense OCWRC Operating Expense Non-Operating	\$	25,710,110.00 3,840,840.00
Major Maintenance Emergency Maintenance Capital Improvement Less: Interest Income		1,200,000.00 50,000.00 1,000,000.00 (285,080.00)
Total:	\$	31,515,870.00

	tive July, 1 2024 nnual Charge	tive July 1, 2024 onthly Charge
City of Berkley	\$ 2,045,222	\$ 170,435.17
Village of Beverly Hills	263,756	21,979.67
City of Birmingham	1,539,141	128,261.75
City of Clawson	1,867,693	155,641.09
City of Ferndale	3,242,510	270,209.17
City of Hazel Park	710,810	59,234.17
City of Huntington Woods	777,528	64,793.99
City of Madison Heights	2,061,453	171,787.74
City of Oak Park	4,298,229	358,185.74
City of Pleasant Ridge	421,998	35,166.50
City of Royal Oak	9,361,094	780,091.16
Royal Oak Twp	402,616	33,551.33
City of Southfield	2,431,638	202,636.51
City of Troy	781,562	65,130.16
Detroit Zoological Park	106,020	8,835.00
County of Oakland	481,374	40,114.51
Rackham Golf Course	60,290	5,024.16
State Of Michigan	662,936	55,244.68
Total	\$ 31,515,870	\$ 2,626,322.50

SEWAGE CHARGE

	FY 2023-24 (July - June)		FY 2024-25					
	Share % of System		Monthly Charge		Share % of System	_	Monthly Charge	% Change Mthly Charge
City of Berkley	4.085%	\$	90,842.76		4.051%	\$	94,052.07	3.5%
Village of Beverly Hills	0.271%		6,026.49	Τ	0.282%		6,547.24	8.6%
City of Birmingham	3.026%		67,292.68		3.192%		74,108.75	10.1%
City of Clawson	3.080%		68,493.42	Τ	3.058%		70,997.58	3.7%
City of Ferndale	5.697%		126,690.67		5.582%		129,597.43	2.3%
City of Hazel Park	4.025%		89,508.51	Τ	3.992%		92,682.35	3.5%
City of Huntington Woods	1.879%		41,785.49		1.885%		43,764.15	4.7%
City of Madison Heights	9.668%		214,998.34		9.808%		227,712.41	5.9%
City of Oak Park	7.668%		170,521.99		7.568%		175,706.34	3.0%
City of Pleasant Ridge	0.880%		19,569.49		0.869%		20,175.59	3.1%
City of Royal Oak	19.199%		426,949.92		19.771%		459,023.57	7.5%
Royal Oak Twp	0.881%		19,591.75		0.850%		19,734.48	0.7%
City of Southfield	6.451%		143,458.15		6.287%		145,965.34	1.7%
City of Troy	31.968%		710,908.67		31.586%		733,332.76	3.2%
Detroit Zoological Park	1.096%		24,373.00		1.086%		25,213.75	3.4%
County of Oakland	-		-	Ι	-		-	-
Rackham Golf Course	0.126%		2,802.00		0.133%		3,087.83	10.2%
State Of Michigan	-		-		-		-	-
Total	100.00%	\$	2,223,813.33		100.00%	\$	2,321,701.64	4.4%

Charges have been rounded

STORM CHARGE

	FY 2023-24 (July - June)		FY 2024-25				
	Share % of System		Monthly Charge		Share % of System	 Monthly Charge	% Change Mthly Charge
City of Berkley	6.4895%	\$	168,657.67		6.4895%	\$ 170,435.17	1.1%
Village of Beverly Hills	0.8369%		21,750.42		0.8369%	21,979.67	1.1%
City of Birmingham	4.8837%		126,924.00		4.8837%	128,261.75	1.1%
City of Clawson	5.9262%		154,017.84		5.9262%	155,641.09	1.1%
City of Ferndale	10.2885%		267,391.00		10.2885%	270,209.17	1.1%
City of Hazel Park	2.2554%		58,616.34		2.2554%	59,234.17	1.1%
City of Huntington Woods	2.4671%		64,118.17		2.4671%	64,793.99	1.1%
City of Madison Heights	6.5410%		169,996.07		6.5410%	171,787.74	1.1%
City of Oak Park	13.6383%		354,450.00		13.6383%	358,185.74	1.1%
City of Pleasant Ridge	1.3390%		34,799.74		1.3390%	35,166.50	1.1%
City of Royal Oak	29.7028%		771,955.16		29.7028%	780,091.16	1.1%
Royal Oak Twp	1.2775%		33,201.41		1.2775%	33,551.33	1.1%
City of Southfield	7.7156%		200,523.08		7.7156%	202,636.51	1.1%
City of Troy	2.4799%		64,450.82		2.4799%	65,130.16	1.1%
Detroit Zoological Park	0.3364%		8,742.83		0.3364%	8,835.00	1.1%
County of Oakland	1.5274%		39,696.08	Τ	1.5274%	40,114.51	1.1%
Rackham Golf Course	0.1913%		4,971.67		0.1913%	5,024.16	1.1%
State Of Michigan	2.1035%		54,668.51		2.1035%	55,244.68	1.1%
Total	100.00%	\$	2,598,930.81	T	100.00%	\$ 2,626,322.50	1.1%

Charges have been rounded

OAKLAND COUNTY WATER RESOURCES COMMISSIONER GEORGE W. KUHN DRAINAGE DISTRICT SCHEDULE OF RATES AND CHARGES, EFFECTIVE JULY 1, 2024

1. <u>Sewage Disposal Charge</u>

<u>Municipality</u>	Effect	ive July 1, 2024 <u>Monthly</u>
City of Berkley	\$	94,052.07
Village of Beverly Hills		6,547.24
City of Birmingham		74,108.75
City of Clawson		70,997.58
City of Ferndale		129,597.43
City of Hazel Park		92,682.35
City of Huntington Woods		43,764.15
City of Madison Heights		227,712.41
City of Oak Park		175,706.34
City of Pleasant Ridge		20,175.59
City of Royal Oak		459,023.57
Royal Oak Twp		19,734.48
City of Southfield		145,965.34
City of Troy		733,332.76
Detroit Zoological Park		25,213.75
County of Oakland		-
Rackham Golf Course		3,087.83
State Of Michigan		
Toal:	\$	2,321,701.64

Where communities have individual sewer customers with metered sewage, permitted and approved by the Oakland County Water Resources Commissioner (WRC), then each community shall also report, within ten days following the end of each month, the total metered sewage within the community, in lieu of water consumption.

2. Pollutant Surcharge - APPROVED BY GLWA

A Pollutant Surcharge shall be levied against industrial and commercial customers contributing sewage to the system with concentrations of pollutants exceeding the levels described as follows:

- A. 275 milligrams per liter (mg/l) of Biochemical Oxygen Demand (BOD)
- B. 350 milligrams per liter (mg/l) of Total Suspended Solids (TSS)
- C. 12 milligrams per liter (mg/l) of Phosphorus (P)
- D. 100 milligrams per liter (mg/l) of Fats, Oils & Grease (FOG)

<u>Pollutant</u>	Total (ive July 1, 2024 Charge Per lb. ess Pollutants
Biochemical Oxygen Demand (BOD)	\$	0.392
Total Suspended Solids (TSS)		0.525
Phosphorus (PHOS)		7.571
Fats, Oils & Grease (FOG)		0.125

It is assumed that normal residential customers do not contribute sewage with concentration of pollutants exceeding exceeding the above levels, therefore, the Pollutant Surcharge shall not apply to residential customers. Further, restaurants shall also be exempt from Pollutant Surcharge per the federal court "Second Interim Order", dated July 10, 1981.

3. Industrial Waste Control Charge - APPROVED BY GLWA

Based on the reported number of water meter sizes for non-residential users of the System, each community shall pay a monthly Industrial Waste Control Charge (IWC) in accordance with the following schedule:

Non-Residential Meter Size	Effective July 1, 2024	4
in Inches	\$/Month	
5/8	\$ 3.72	
3/4	5.58	
1	9.30	
1 1/2	20.46	
2	29.76	
3	53.94	
4	74.40	
6	111.60	
8	186.00	
10	260.40	
12	297.60	
14	372.00	
16	446.40	
18	520.80	
20	595.20	
24	669.60	
30	744.00	
36	818.40	
48	892.80	

Non-residential users shall be defined as all users other than those in single family houses, apartment buildings, condominiums, town houses, mobile homes, schools, churches and municipal buildings.

4. Flat Rate Storm Charge

<u>Municipality</u>	Effect	ive July 1, 2024 <u>Monthly</u>
City of Berkley	\$	170,435.17
Village of Beverly Hills		21,979.67
City of Birmingham		128,261.75
City of Clawson		155,641.09
City of Ferndale		270,209.17
City of Hazel Park		59,234.17
City of Huntington Woods		64,793.99
City of Madison Heights		171,787.74
City of Oak Park		358,185.74
City of Pleasant Ridge		35,166.50
City of Royal Oak		780,091.16
Royal Oak Twp		33,551.33
City of Southfield		202,636.51
City of Troy		65,130.16
Detroit Zoological Park		8,835.00
County of Oakland		40,114.51
Rackham Golf Course		5,024.16
State Of Michigan		55,244.68
Total:	\$	2,626,322.50

5. Total Sewer and Storm Water Charge

The following schedule identifies the total of the sewer charge and the storm water charge. The combined amount will be billed monthly to each customer:

Combined Monthly Sewer and Storm Charges

<u>Municipality</u>	Effective July 1, 202 <u>Monthly</u>	
City of Berkley	\$ 264,487.24	
Village of Beverly Hills	28,526.91	
City of Birmingham	202,370.50	
City of Clawson	226,638.67	
City of Ferndale	399,806.60	
City of Hazel Park	151,916.52	
City of Huntington Woods	108,558.14	
City of Madison Heights	399,500.15	
City of Oak Park	533,892.08	
City of Pleasant Ridge	55,342.09	
City of Royal Oak	1,239,114.73	
Royal Oak Twp	53,285.81	
City of Southfield	348,601.85	
City of Troy	798,462.92	
Detroit Zoological Park	34,048.75	
County of Oakland	40,114.51	
Rackham Golf Course	8,111.99	
State Of Michigan	55,244.68	
Total:	\$ 4,948,024.14	

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MEMORANDUM

TO: Jim Nash, Chairperson of the George W. Kuhn Drain Drainage Board

FROM: Lynne Seymour, P.E., Chief Engineer

SUBJECT: GWK Green Stormwater Infrastructure Grant Application

DATE: April 23, 2024

The United States Environmental Protection Agency (EPA) is accepting Community Change grant applications on a rolling basis to support community-driven projects that build capacity for communities. The grants are intended to help communities tackle environmental and climate justice challenges, strengthen their climate resilience, and advance clean energy. The EPA Community Change program has \$2 billion in Inflation Reduction Act funding and expects most awards will be between \$10-20 million for multi-faceted projects addressing a range of pollution, climate change, and other priority issues. There is no match required for this grant.

After reviewing the grant criteria, staff recommends a grant application be developed and submitted on behalf of the Drainage District to provide additional funding for the RainSmart Rebates program and to support the construction of GWK WaterTown® projects scoped for green stormwater infrastructure (GSI) on municipal properties. A partnership with a community-based organization is required and the Clinton River Watershed Council has expressed its support for a grant application to continue RainSmart Rebates and implement the WaterTown® GSI projects.

The grant application is extensive and outside assistance is required to submit a competitive, comprehensive application in a timely manner. Due to its extensive knowledge of the EPA Community Change program, WaterTown®, and the GWK Drain Drainage District, a proposal was sought from Drummond Carpenter, PLLC, an engineering and research firm specializing in environmental and water resources. The scope of work to be performed by Drummond Carpenter, PLLC includes:

- Task 1 Proposal Assistance
 - o Coordinate proposal elements including main proposal, attachments, forms, and budget
 - o Develop maps, exhibits, etc. in support of proposal text.
 - o Draft sections of the proposal based on information provided by WRC and CRWC.
 - Draft a budget for project.
 - o Provide QA/QC of proposal sections developed by WRC or CRWC staff.
- Task 2 Miscellaneous Services
 - As-needed services task, if authorized by WRC staff, for ongoing assistance, meeting support, or technical guidance as directed in support of the grant application

Requested Action: Authorize the hiring of Drummond Carpenter, PLLC to prepare the EPA Community Change grant application for a not-to-exceed price of \$50,456.

Drummond Carpenter, PLLC

Ann Arbor, MI 48108

Tel 248.763.4099 DCarpenter@DrummondCarpenter.com



27 March 2024

To: Lynne Seymour, PE **Chief Engineer** Oakland County Water Resources Commissioners Office

via email: seymourl@oakgov.com

Subject: Proposal to Assist with EPA Community Change Grant Application

Lynne,

The USEPA Community Change Grant (CCG) program is supporting comprehensive community and placebased approaches to redressing environmental and climate injustices for communities facing legacy pollution, climate change, and persistent disinvestment through grant awards up to \$20M. It is our understanding that the OCWRC office plans to submit a grant application in partnership with Clinton River Watershed Council and Detroit Zoological Society (DZS) to support green stormwater infrastructure (GSI) implementation in the GWK Drainage District.

Drummond Carpenter, PLLC (Drummond Carpenter) is pleased to present this requested scope of work (SOW) to assist with the development of a proposal for the CCG Program. Drummond Carpenter's efforts on this project will be led by Donald Carpenter, PhD, PE, LEED AP.

Scope of Work

The initial scope of work includes the following and broken into two tasks:

- Task 1 Proposal Assistance
 - Coordinate proposal elements including main proposal, attachments, forms, and budget (see provided excel spreadsheet for details).
 - o Develop maps, exhibits, etc. in support of proposal text.
 - Draft sections of the proposal based on information provided by OCWRC, CRWC, and DZS.
 - Draft a budget for project.
 - o Provide QA/QC of proposal sections developed by OCWRC, CRWC, or DZS staff.
- Task 2 Miscellaneous Services
 - As-needed services task, if authorized by WRC staff, for ongoing assistance, meeting support, or technical guidance as directed in support of the CCG application (for example, answer questions from EPA based on submittal, etc.).

It is assumed that CRWC or the OCWRC will be responsible for submitting the proposal and will provide required information to Drummond Carpenter on a timely basis with the goal of submittal by 31 May 2024.

Contract Arrangement and Schedule

Drummond Carpenter will execute this agreement on a time and expense basis with WRC invoiced monthly for actual time and expenses incurred. Each invoice will include a summary of tasks and budget remaining.

OCWRC Professional Services 8 April 2024

It is anticipated that tasks will commence immediately, and all professional services will be completed by 31 December 2024. Drummond Carpenter requests an initial not-to-exceed budget of \$35,616 (approximately 192 hours) to perform the requested services under Task 1 and \$14,840 (approximately 80 hours) for additional services under Task 2.

Please note that our ability to stay within this budget will be dependent upon the breadth and nature of the services requested of us. Should you request services which are outside of this scope of work, incurred costs will be charged on a time and materials basis using standard Drummond Carpenter rates as agreed upon. Work will not be performed outside of this scope of work without prior authorization by representatives of WRC.

Best Regards,

Donald D. Carpenter, PhD, PE, LEED AP

le Coopt

Principal

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MEMORANDUM

TO: Jim Nash, Chairperson of the George W. Kuhn Drain Drainage Board

FROM: Stephanie Petriello, Environmental Planner

SUBJECT: GWK Parking Lot and Green Infrastructure Improvements – Phase II

DATE: April 23, 2024

Over the past year, WRC staff has been working with Hubbell, Roth & Clark, Inc. to develop and finalize engineering plans for a project to repair, expand, and redesign the layout of the existing parking lot at the George W. Kuhn Retention Treatment Basin Facility. This project also includes several green infrastructure features such as a bioretention area, shade trees, and three acres of turf grass conversion into native prairie grow zones.

Given the scope and expertise needed for different aspects of the project, the construction sequence was separated into two phases. Phase I consists of the parking lot expansion, bioretention area, and shade trees. A contract for Phase I was approved at the March 26, 2024 Drainage Board meeting. Phase II consists of the turf grass conversion into native prairie grass with the utilization of biosolids generated at the Clinton River Water Resource Recovery Facility.

In March, the WRC solicited proposals from contractors to construct Phase II and received two proposals. After review, staff recommend awarding the contract to Sherman Nursery Farms for the proposed amount of \$123,107.62 based on its understanding of the project, similar project experience, and qualified staff. This work has been planned and budgeted for in the GWK reserves.

Requested Action: Award the construction contract with Michigan Lawn Maintenance, Inc. doing business as Sherman Nursery Farms for a not-to-exceed price of \$123,107.62.

Page 1 of 1 Rev.: 02/12/2018

MEMO TO:

Mr. Jim Nash, Chairman

of the Drainage Board for the GEORGE W. KUHN DRAIN H for Shawn Phelps

FROM:

OCWRC Accounting

DATE:

April 23, 2024

SUBJECT:

Request for Board approval of payment of the following invoices:

Payable To	Ref No.	For		Amount
Orchard Hiltz & McCliment Inc	TBP	Invoice # 73804 - Professional Services - 03/23/24		\$ 1,758,75
Dickinson Wright PLLC	V # SINV00250607	Invoice # 1901824 - Legal Services - 02/29/24		 5,864.27
Dickinson Wright PLLC	TBP	Invoice # 1909611 - Legal Services - 03/31/24		19.546.05
Dickinson Wright PLLC	TBP	Invoice # 1909614 - Legal Services - 03/31/24		948.00
Dickinson Wright PLLC	TBP	Invoice # 1909620 - Legal Services - 03/31/24		12,234.50
Dickinson Wright PLLC	TBP	Invoice # 1909621 - Legal Services - 03/31/24		77,598.59
Dickinson Wright PLLC	TBP	Invoice # 1909612 - Legal Services - 03/31/24		72,962.00
CSM Mechanical	TBP	Invoice # 3125 - Contract Services		14,151.00
			Total	\$ 205,063.16

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

6. Clinton River Water Resource Recovery Facility

AGENDA

DRAINAGE BOARD FOR THE CLINTON RIVER WATER RESOURCE RECOVERY FACILITY

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of March 26, 2024
- 3. Public Comments
- 4. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$748,688.51
- 5. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund from the Construction Fund in the amount of \$50,994.96
- 6. Other business
- 7. Approve pro rata payment to Drainage Board members
- 8. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE CLINTON RIVER WATER RESOURCE RECOVERY FACILITY

March 26, 2024

A meeting of the Drainage Board for the Clinton River Water Resource Recovery Facility was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 26th day of March 2024.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held February 27, 2024, were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2 Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A memorandum from Razik Alsaigh, P.E., Civil Engineer III, dated March 26, 2024, requesting the Board accept Meadowbrook's Owner Controlled Insurance Premium Proposal for the Optimization Phase I Project at a cost of \$877,849.30 covering the three year period of construction was presented. It was moved by Markham, supported by Nash, to accept Meadowbrook's Owner Controlled Insurance Premium Proposal for the Optimization Phase I Project at a cost of \$877,849.30 covering the three year period of construction as presented.

ADOPTED: Yeas - 2 Nays - 0

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$11,943,350 for the Clinton River Water Resource Recovery Facility (as attached) were presented. It was moved by Markham, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$11,943,350 as presented.

ADOPTED: Yeas - 2 Nays - 0

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$300,974.20 (as attached) was

presented. It was moved by Markham, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$300,974.20.

ADOPTED: Yeas - 2 Nays - 0

A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund from the Construction Fund in the amount of \$20,965.19 (as attached) was presented. It was moved by Markham, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund from the Construction Fund in the amount of \$20,965.19.

ADOPTED: Yeas - 2 Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2 Nays - 0

There being no further business, the meeting was adjourned.

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Clinton River Water Resource Recovery Facility, Oakland County, Michigan, held on the 26th day of March 2024, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Clinton River Water Resource Recovery Facility.

Jim Nash, Chairperson

Dated: March 26, 2024

MEMO TO: Mr. Jim Nash, Chairman

of the Drainage Board for the CLINTON RIVER WATER RESOURCE RECOVERY FACILITY DRAIN - (Maintenance)

Ho for Shawn Phelps

FROM: Shawn Phelps, Chief of Fiscal Services

OCWRC Accounting

DATE: April 23, 2024

SUBJECT: Request for Approval of Invoices

The following is a detail of charges paid from the Drain Revolving Fund and Invoices

Ref Payable To No. For Amount USA Blue Book PC00031503 Pcard - Lab Supplies # INV00318996 \$ 3,759.23 Grainger PC00031346 Pcard - Materials and Supplies # 9058893620 1,127.65 The Macomb Group PC00031407 Pcard - Materials and Supplies # Order #4219730 1,491.76 The Macomb Group PC00032039 Pcard - Materials and Supplies # Order #4226318 1,697.31 Andritz Separation Inc V # SINV00253305 Invoice # 8480125033 / 02/29/2024 - Equipment Maintenance 66,729.70 **Biotech Agronomics** V # SINV00250099 Invoice # 3648 - Land Application 28,001.92 D3W Industries V # SINV00251425 Invoice # 4393 - Material and Supplies 5,720.00 Hach Company V # SINV00250100 Invoice # 13969684 - Contracted Services 1,848.00 Haviland Products Company V # SINV00250127 Invoice # 499754 - Chemical Treatment 9,029.00 Haviland Products Company V # SINV00250668 Invoice # 500365 - Chemical Treatment 7,269.76 Haviland Products Company V # SINV00250662 Invoice # 500446 - Chemical Treatment 9,029.00 Haviland Products Company V # SINV00250672 Invoice # 500447 - Chemical Treatment 10,567.00 Ingersoll Rand V # SINV00252324 Invoice # 31125956 - Laboraratory Fees 3,071.38 LaSalle Agri Inc V # SINV00254906 Invoice # 8 - Land Application 8.161.30 LaSalle Agri Inc V # SINV00254907 Invoice # 1996 - Land Application 19.211.15 Lamphere's Tree Services TBP Invoice # 1865 - Contracted Services 11,250.00 PVS Technologies Inc V # SINV00250128 Invoice # 353609 - Chemical Treatment 2,673.44 PVS Technologies Inc V # SINV00252327 Invoice # 354480 - Chemical Treatment 2,674.68 PVS Technologies Inc V # SINV00252329 Invoice # 354483 - Chemical Treatment 4,539.64 PVS Technologies Inc V # SINV00255601 Invoice # 354900 - Chemical Treatment 5,209.24 Saber Building Services Inc V # SINV00251427 Invoice # 44271 - Contracted Services - Apr 24 1.800.00 Waste Management V # SINV00251428 Invoice #8747094 -1714-9 Garbage & Rubbish Disposal 1,385.62 Waste Management Invoice # 8747095 -1714-6 Garbage & Rubbish Disposal V # SINV00252333 3,002.76 Waste Management V # SINV00251429 Invoice # 8747119 -1714-4 Garbage & Rubbish Disposal 1,011.64 **HOH Water Technology** V # SINV00254771 Invoice # 674365 - Contracted Services 2,050.00 Polydyne Inc V # SINV00254774 Invoice # 1823433 - Chemical Treatment 49,269.00 Subtotal \$ 261,580.18 HESCO Group LLC **TBP** Invoice # 242232 - Material and Supplies - Proj 1-7514 1,633.00 Subtotal - Project 1-7514 \$ 1,633.00 Jacobs V # SINV00252271 Invoice # C6A21702-1 - Engineering & Survey - Proj # 1-7515 \$ 315,560.98 Environmental Testing & Consulting Inc **TBP** Invoice # 112025 - Testing Materials - Proj # 1-7515 \$ 520.20 Environmental Testing & Consulting Inc TBP Invoice # 112093 - Testing Materials - Proj # 1-7515 735.00 Subtotal - Project 1-7515 \$ 316,816.18 Jacobs Consultant, Inc. V # SINV00254570 Invoice # C6A19600-12 - Professional Services - 02/23/24 - Proj # 1-7550 \$ 23,166.84 Jacobs Consultant, Inc. V # SINV00254905 Invoice # C6A19600-13 - Professional Services - 03/29/24 - Proj # 1-7550 38,633.52 Subtotal - Project 1-7550 \$ 61,800.36 **OHM Advisors** V # SINV00254573 Invoice # 73810 - Professional Services - 3/23/24 Proj # 1-7047 7,896.75 Subtotal - Project 1-7047 \$ 7.896.75 Michigan Independent Door Company V # SINV00250638 Invoice # J24122 - Contracted Services - Proj # 1-3451 5,500.00 Subtotal - Project 1-3451 \$ 5,500.00

Kennedy Industries	V # SINV00250617	Invoice # 641207 - Contracted Services - Proj # 1-3492	\$	12,270.00
Kennedy Industries	V # SINV00250618	Invoice # 641208 - Contracted Services - Proj # 1-3492	\$	12,270.00
CSM Mechanical	TBP	Invoice # 2942 - Contracted Services - Proj # 1-3492	\$	15,333.06
	*	Subtotal - Project 1-3492	\$	39,873.06
Andritz Separation Inc	V # SINV00249579	Invoice # 8480125211 / 03/11/2024 - Equipment Repair - Proj- 1-7513	\$	48,904.00
		Subtotal - Project 1-7513		48,904.00
		3.2.3.3		40,004.00
Hamlett Environmental Technologies	TBP	Invoice # 2024214 - Material and Supplies - Proj # 1-3470	\$	1,161.00
		Subtotal - Project 1-3470	\$	1,161.00
Hubbell Roth & Clark Inc	V # SINV00252590	Invoice # 0215382 - Engineering & Survey -03/02/24 - Proj 1-3679	\$	3,523.98
		Subtotal - Project 1-3679	\$	3,523.98
		Subtotal - Project 1-5075	3	3,323.30
		Total	\$	748,688.51

MEMO TO: Mr. Jim Nash, Chairman

of the Drainage Board for the CLINTON RIVER WATER RESOURCE RECOVERY FACILITY DRAIN - (Construction)

FROM: Shawn Phelps, Chief of Fiscal Services & for Shawn Phelps

OCWRC Accounting

DATE: April 23, 2024

SUBJECT: Request for Board approval of payment of the following invoices:

	Ref	•		
	No.	For		Amount
CSM Mechanical	V # SINV00254575	Invoice # 3041 - Project Construction & Improvement - Proj #1-2181	\$	3,568.97
CDM Smith Michigan, Inc	V # SINV00254766	Invoice # 90203147- Engineering Survey - 11/26/23 - 03/30/24 - Proj # 1-2181		3,358.49
		Total for Project # 1-2181	\$	6,927.46
Jacobs Consultant, Inc	TBP	Invoice # C6A21700-15 - Engineering and Survey - 03/29/24 - Proj # 1-7461		44,067.50
		Total for Project #1-7461	\$	44,067.50
			¢	50,994.96

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

7. Bloomfield Township CSO

AGENDA

DRAINAGE BOARD FOR THE BLOOMFIELD TOWNSHIP CSO DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of May 24, 2016
- 3. Public Comments
- 4. Present Memorandum from Geoff Wilson, P.E., Chief Engineer, dated April 23, 2024, requesting the Board authorize Spicer Group, LLC to proceed with engineering services to prepare a route and course description of existing infrastructure of the drain and identify the benefitting properties for an amount not to exceed \$18,500 per its March 27, 2024 proposal
- 5. Other business
- 6. Approve pro rata payment to Drainage Board members
- 7. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE BLOOMFIELD TOWNSHIP CSO DRAIN

May 24, 2016

A meeting of the Drainage Board for the Bloomfield Township CSO Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 24th day of May, 2016.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Chairperson and Oakland County Water Resources Commissioner

Thomas F. Middleton, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: Michael Gingell, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held December 16, 2014 were presented for consideration. It was moved by Middleton, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2

Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

Change Order No. 11 (Final Balancing) for LiquiForce Services, Inc., with a net decrease amount of \$397,983.60 (as attached) was presented. It was moved by Middleton, supported by Nash, to approve Change Order No. 11 as presented.

ADOPTED: Yeas - 2

Nays - 0

Final Construction Payment for LiquiForce Services, Inc., in the amount of \$1,125 (as attached); and a payment of \$35,000 from the Oakland County Treasurer from retained funds for reserve payment plus interest to the contractor was presented. It was moved by Middleton, supported by Nash, to approve the Final Construction Payment in the amount of \$1,125; and a payment of \$35,000 from the Oakland County Treasurer from retained funds.

ADOPTED: Yeas - 2

Nays - 0

It was moved by Nash, supported by Middleton, to certify attendance and authorize pro rata payment of \$25 per day to Mr. Middleton.

ADOPTED: Yeas - 2

Nays - 0

There being no further business, the meeting was adjourned.

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Bloomfield Township CSO Drain, Oakland County, Michigan, held on the 24th day of May, 2016, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Bloomfield Township CSO Drain Drainage District.

Jim Nash, Chairperson

Dated: June 15, 2016

CHANGE ORDER NO. 11 (Final Balancing)

Jim Nash, Oakland County Water Resources Commissioner

For Construction of the Bloomfield Township CSO Drainage District - Sewer Rehabilitation Project

Located in Bloomfield Township , Oakland County, Michigan

CONTRACTOR: Liqui-Force Services (USA) Inc.

Address: 28529 Goddard Road, Suite 106

Romulus, Michigan 48174

Authorization for Extras To Contract

Change Order No: 11

Date: 5/3/2016

Auth	Location-Description-Reason	Unit Used	Quant.	Unit Price	Amount Increase	Amount Decrease
	LOCATION:					
	Bloomfield Township Drainage District					
	Various locations throughout Bloomfield Township					
	DESCRIPTION:					
	CHANGE:	,	4.074	24.00	04.074.00	
	8" Heavy Cleaning and Televising (Bid Item #2)	LFT	1,971	\$1.00	\$1,971.00	
	12" Heavy Cleaning and Televising (Bid Item #3)	LFT	3,234	\$1.00	\$3,234.00	
	15" Heavy Cleaning and Televising (Bid Item #4)	LFT	(1,868)	\$1.00		\$1,868.00
	21" Heavy Cleaning and Televising (Bid Item #5)	LFT	622	\$1.00	\$622.00	TO 200 00
	8" Relining (Bid Item #6)	LFT	(312)	\$30.00		\$9,360.00
	10" Relining (Bid Item #7)	LFT	(979)	\$31.00		\$30,349.00
	12" Relining (Bid Item #8) 15" Relining (Bid Item #9)	LFT	(3,919)	\$34.00		\$133,246.0
	18" Relining (Bid Item #10)	LFT	(128)	\$36.00 \$45.00		\$4,608.00
	21" Relining (Bid Item #11)	LFT	(1,819) (79)	\$50.00		\$81,855.00 \$3,950.00
	Grout 8" Joints (Bid Item #12)	EA	(75)	\$10.00	A1 48 40	\$750.00
	Grout 10" Joints (Bid Item #13)	EA	(10)	\$10.00		\$100.00
	Grout 12" Joints (Bid Item #14)	EA	(99)	\$10.00		\$990.00
	Grout 15" Joints (Bid Item #15)	EA	(20)	\$10.00		\$200.00
	Grout 18" Joints (Bid Item #16)	EA	(20)	\$10.00		\$200.00
	Grout 21" Joints (Bid Item #17)	EA	(10)	\$10.00		\$100.00
i	8" Spot Repairs (Bid Item #18)	LFT	(103)	\$775.00		\$79,825.00
	10" Spot Repairs (Bid Item #19)	LFT	(100)	\$775.00		\$7,750.00
	12" Spot Repairs (Bid Item #20)	LFT	29	\$775.00	\$22,475.00	Ψ1,700.00
	18" Spot Repairs (Bid Item #21)	LFT	(10)	\$775.00	ΨΖΖ,Ψ70.00	\$7,750.00
	18" Spot Liners (Bid Item #22)	EA	(4)	\$4,000.00		\$16,000.00
	Fix Protruding Lead (Bid Item #23)	EA	(121)	\$25.00	88 SW+0.	\$3,025.00
	Manhole Rehabilitation (Division B - Pay Item #2)	VF	88	\$102.00	\$8,996.40	Ψ0,020.00
	Replace Frame and Cover (Division B - Pay Item #3)	EA	1	\$1,150.00	\$1,150.00	
	Grout Manhole Leaks (Division B - Pay Item #4)	EA	(15)	\$250.00		\$3,750.00
	Replace Manhole Cover (Division B - Pay Item #5)	EA	(2)	\$1,000.00	277	\$2,000.00
	Raise Manhole (<6") (Division B - Pay Item #6)	EA	6	\$1,150.00	\$6,900.00	
	4' dia. Sanitary Manhole (C.O. 1A)	EA	1	\$7,500.00	\$7,500.00	
	5' dia. Sanitary Manhole Over Existing (C.O. 1A)	EA	(1)	\$11,500.00		\$11,500.00
	21" San. Sewer - C76, CL IV Prem Joint (C.O. 1A)	LFT	(2)	\$130.00	nen-	\$260.00
	6" San. Lead - Sch 40 PVC or SDR 23.5 (C.O. 1A)	LFT	17	\$25.00	\$425.00	
	Reduced odor - 8" Relining	LFT	(42)	\$6.50	SA WA SA	\$273.00
	Reduced odor - 10" Relining	LFT	(819)	\$6.50		\$5,323.50
	Reduced odor - 12" Relining	LFT	(2,070)	\$10.50		\$21,735.00
	Reduced odor - 15" Relining	LFT	38	\$13.50	\$513.00	
1	Reduced odor - 18" Relining	LFT	(1,295)	\$17.50		\$22,662.50
	Reduced odor - 21" Relining	LFT	(104)	\$22.50	PRI PRI SA	\$2,340.00
	Contract Time Extension	DAYS	1,217			
	REASON:					
	To adjust bid quantities to reflect as-built quantities and					
	determine the final contract amount.					
		1		Totals	\$53,786.40	\$454.770.00
				Net	φυυ,/ ου. 4 U	\$451,770.00
				Decrease		\$397,983.60
			į	Doorease		ψυυτ,υυυ.ου

JIM NASH, Oakland County Water Resources Commissioner
For Construction of the Bloomfield Township CSO Drainage District - Sewer Rehabilitation Project

Prepared by:
Assistant Chief Engineer - Gary Nigro, F.E.

Recommended by:
Consulting Engineer - Hubbell, Roth & Clark, Inc.

Date: May 16, 2016

Date: May 18, 2016

Date: May 18, 2016

Date: May 18, 2016

Date: May 18, 2016

The Contractor agrees to do the work described above and agrees to accept payment in full on the

The Contractor agrees to do the work described above and agrees to accept payment in full on the basis indicated.

Accepted by:

Date: MAY 19, 20 K

of: Liqui-Force Services (USA) Inc.

Approved by: Manager

Steven Korth, P.E.

Date: 19, 2016

The Contractor is hereby authorized and instructed to do the work described above in accordance with the terms of the Contract.

This Change Order No.

11 (final) was approved by the Drainage Board on:

May 24, 2016

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MEMORANDUM

TO:

Jim Nash, Chairman

Bloomfield Township CSO Drain Drainage Board

FROM:

Gary Nigro, P.E. – Assistant Chief Engineer * \(\bar{N} \)

SUBJECT:

Final payment of construction contract

DATE:

May 24, 2016

Construction of the Bloomfield Township CSO Drain - Sewer Rehabilitation Project has been completed in accordance with the requirements of the Contract Documents.

Attached are the following:

1. Final Construction Payment

2. Contractor's Declaration, dated May 19, 2016.

3. Contractor's Affidavit, dated May 19, 2016.

4. Consent of Surety to release Final Payment, dated October 16, 2014.

5. Permit release from Road Commission for Oakland County dated February 1, 2013.

6. A copy of the Maintenance and Guarantee Bond.

It is my recommendation that the Final Construction Payment be approved by the Drainage Board for the Bloomfield Township CSO Drain - Sewer Rehabilitation Project.

Rev.: 11/05/08

Jim Nash, Oakland County Water Resources Commissioner Bloomfield Township CSO Drainage District Sewer Rehabilitation Project Bloomfield Township Oakland County, Michigan

Final Construction Payment	December 1, 2014 to April 30, 2016
On tract # 3222 Department No.: 6010101 Fund No.: 84729 Project No.: 1-1412	Account No.: 731472 Program No.: 149015 Activity: FAC
Contractor:	Job File No. N/A
LiquiForce Services, Inc.	Date of Contract: February 14, 2011 Completion Date: October 10, 2011
28529 Goddard Road, Suite 106 Romulus, MI 48174	Extended to: April 30, 2016
Original Contract Amount:	\$1,718,760.00
Previous Change Orders: Numbers: (1-10)	\$1,001,617.24
Change Orders This Estimate: Numbers: (Final)	(\$397,983.60)
Total Net Change Orders: (No further authorization on this Contra	act) \$603,633.64
Final Adjusted Contract Amount:	\$2,322,393.64
Final Subtotal: (Sheet 3 of 3 Column 7)	\$2,322,393.64
Final Amount Allowed:	\$2,322,393.64
Less Previous Estimates:	\$2,286,268.64 /
Final Payment Request To Be Paid To Contractor:	\$1,125.00
Final Reserve Payment to Contractor	\$35,000.00
Balance of Contract To Date	\$0.00 Accounting Auditor: \$ 5/17/16
Amount To Be Reserved (From Above)	\$0.00
Less Previous Transfers To Reserve:	\$35,000.00 >
Amount of Current Transfer:	(\$35,000.00)
Prepared by:	Date: May 17, 2016
Recommended by: All Consulting Engineer Hubbell, Roth and Clark, Inc Consulting Engineer	Date: May 18, 2016 Date: MAY 18, 2016
Approved by:	Date: MAY 18, 2016

Final Construction Payment

Glenn Appel, P.E. - Chief Engineer

Approved By Board On: May 24 2014

Jim Nash, Oakland County Water Resources Commissioner Bloomfield Township CSO Drainage District Sewer Rehabilitation Project Bloomfield Township, Oakland County, Mighigan

Tin-		(1)	• •	and County, Migl		(e) [/c) T	(7)
FIIIa	l Construction Payment	10	(2)	(3)	(4)	(5) Total	(6)	(7)
1					Quantity	Quantity	Total	Tota
	Connect Marine	Bid	11-16	Unit	This	Previous	Quantity	Amount
Con	tract Item Division A - Sanitary Sewer	Quantity	Unit	Price	Payment	Estimate	to Date	to Date
1	Mobilization	1.00	LS	\$50,000.00	0,00	1.00	1.00	\$50,000.00
2	8" Heavy Cleaning and Televising	1,520	LFT	\$1.00	0.0	7808.0	7808.0	\$7,808.00
3	12" Heavy Cleaning and Televising 15" Heavy Cleaning and Televising	781 240	LFT LFT	\$1.00 \$1.00	0.0	8002.0 1704.0	8002.0 1704.0	\$8,002.00 \$1,704.00
5	21" Heavy Cleaning and Televising	253	LFT	\$1.00	0.0	875,0	875,0	\$875.00
6	8" Relining	10,610	LFT	\$30.00	0.0	15404.0	15404.0	\$462,120.00
7	10" Relining	952	LFT	\$31.00	0.0	1966.0	1966.0	\$60,946.00
8	15" Relining	14,134 4,153	LFT LFT	\$34.00 \$36.00	0.0	17035.0 5590.0	17035,0 5590.0	\$579,190.00 \$201,240.00
10	18" Relining	4,872	LFT'	\$45.00	0.0	4680.0	4680.0	\$210,600.00
11	21" Relining	2,124	LFT	\$50,00	0.0	2045.0	2045.0	\$102,250.00
12	Grout 8" Joints Grout 10" Joints	100	EA EA	\$10.00 \$10.00	0.0	25.0	25.0 0.0	\$250.00 \$0.00
14	Grout 12" Joints	100	ĒΑ	\$10.00	0.0	1.0	1.0	\$10.00
15	Grout 15" Joints	20	EA	\$10.00	0.0	0.0	0.0	\$0.00
16	Grout 18" Joints Grout 21" Joints	20	EA EA	\$10.00 \$10.00	0.0	0.0	0.0	\$0.00 \$0.00
18	8" Spot Repairs	120	LFT	\$775.00	0.0	17.0	17.0	\$13,175.00
19	10" Spot Repairs	10	LFT	\$775.00	0.0	0.0	0.0	\$0.00
20	12" Spot Repairs	50	LFT	\$775.00	0.0	79.0	79.0	\$61,225.00
21	18" Spot Repairs 18" Spot Liners	10	LFT EA	\$775.00 \$4,000.00	0.0	0.0	0.0	\$0.00 \$4,000.00
	Fix Protruding Lead	200	EA	\$25.00	0.0	79.0	79.0	\$1,975.00
24	Traffic Maintenance and Control	1	LS	\$20,000.00	0.05	0.95	1.00	\$20,000.00
1	Division B - Sanitary Manhole Rehabilitation Mobilization	1	I C	\$2,500,00	0.0	1.0	1.0	#2 F00 00
2	Manhole Rehabilitation	1,500	LS VF	\$2,500,00 \$102.00	0.0	1.0 1588.2	1.0 1588.2	\$2,500,00 \$161,996,40
3	Replace Frame and Cover	1	EΑ	\$1,150.00	0,0	2.0	2.0	\$2,300.00
4	Grout Manhole Leaks	15	EA	\$250.00	0.0	0.0	0,0	\$0.00
5 6	Replace Manhole Cover Raise Manhole (<6")	2 6	EA EA	\$1,000.00 \$1,150.00	0.0	0.0 12.0	0.0 12.0	\$0.00 \$13,800,00
7	Traffic Maintenance and Control	1	LS	\$2,500,00	0.05	0.95	1.00	\$2,500,00
	Change Orders:		•					•
	Description			Т				
1A	Mobilization (max 5%)	1	L\$	\$4,250.00	0.0	1.0	1.0	\$4,250.00
	Color Audio-Video Route Survey	1	LS	\$2,000.00	0.0	1.0	1.0	\$2,000.00
	Remove 18" to 36" dia. Trees, Including Stumps 4' dia. Sanitary Manhole	2	EA EA	\$750.00 \$7,500.00	0.0	2.0	2.0	\$1,500.00 \$15,000.00
	5' dia. Sanitary Manhole Over Existing	2	EA EA	\$11,500.00	0.0	1.0	1,0	\$11,500.00
	21" Sanitary Sewer - C76, CL IV Premium Joint	302	LFT	\$130.00	0.0	300.0	300.0	\$39,000.00
	6" Sanitary Lead - Sch 40 PVC or SDR 23.5 Install Sanitary Sewer Bulkhead	42	LFT EA	\$25,00 \$525,00	0.0	59.0	59.0	\$1,475.00
	Sanitary Sewer Cleanout	1	EA EA	\$1,250.00	0.0	3.0 1.0	3,0 1.0	\$1,575.00 \$1,250.00
	Restoration	1	LS	\$7,500.00	0.0	1.0	1.0	\$7,500.00
	Bonds, Insurance, Overhead and Profit (7.8%)	1	LS	\$6,930.00	0.0	1.0	1.0	\$6,930.00
2.	Contract Time Extension 8" Relining (Increase Quantity for Bid Item #8)	188 5,106	DAYS LFT	\$30.00	0.0	0.0		
	10" Relining (Increase Quantity for Bid Item #7)	1,993	LFT	\$31.00	0.0	0.0	*****	
&	12" Relining (Increase Quantity for Bid Item #8)	6,820	LFT	\$34.00	0.0	0,0		
9	15" Relining (Increase Quantity for Bid Item #9)	1,565	LFT	\$36.00	0.0	0.0		
	18" Relining (Increase Quantity for Bid Item #10)	1,627	LFT	\$45.00	0.0	0.0		
	18" Spot Liners (Increase Quantity for Bid Item #22) Install 3 sanitary house lead clean outs	1	EA LS	\$4,000.00 \$12,678.60	0.0	0.0 1.0	1.0	\$12.678.60
	Reduced odor - 8" Relining	5,934	LFT	\$6.50	0.0	5,892.0	5892.0	\$12,678.60 \$38,298.00
6A	Reduced odor - 10" Relining	1,705	LFT	\$6.50	0.0	886.0	886.0	\$5,759.00
	Reduced odor - 12" Relining	8,334	LFT	\$10.50	0.0	6,264.0	6264.0	\$65,772.00
	Reduced odor - 15" Relining Reduced odor - 18" Relining	2,126	LFT	\$13.50	0.0	2,164.0	2164.0	\$29,214.00
I 1	Reduced odor - 15" Relining Reduced odor - 21" Relining	2,045 1,242	LFT	\$17.50 \$22.50	0.0	750.0 1,138.0	750.0 1138.0	\$13,125,00 \$25,605,00
	Additional work at 3400 Breckinridge Lane	1,242	LS	\$4,197.27	0.0	1.0	1,0	\$4,197.27
6A	8" Heavy Cleaning and Televising	4,317	LFT	\$1.00	0.0	0.0		41,101,27
	12" Heavy Cleaning and Televising	3,987	LFT	\$1,00	0.0	0.0		*****
	15" Heavy Cleaning and Televising Contract Time Extension	3,332	LFT	\$1.00	0.0	0.0		
	Install 2 sanitary house lead clean outs	60	DAYS LS	\$7,668.00	0.0	1.0	1.0	\$7,668.00
_	Reroute sanitary lead and point liner	1	LS	\$12,753.50	0.0	1.0	1.0	\$12,753.50
7C	10 Vac-a-tee clean out installations	1	LS	\$21,230.00	0,0	1.0	1.0	\$21,230.00
	Grout, spot line and dewatering for run A10	1	LS	\$11,475,75	0.0	1.0	1.0	\$11,475,75
	Install sanitary house lead Remove tree over sanitary manhole	1	LS LS	\$5,002.50	0.0	1.0	1.0	\$5,002.50
	Additional work at 1293 Twin Maples	1	LS	\$1,001.00 \$8,167.62	0,0	1.0 1.0	1.0	\$1,001.00 \$8,167.62
1		- 1		ΨΟ, 101.04	Ψ,υ .	1.0	1.0	ΨΟ, 107.02

Fina	l Construction Payment	(1)	(2)	(3)	(4)	(5)	(6)	(7
						Total		
					Quantity	Quantity	Total	Tot
		Bìd		Unit	This	Previous	Quantity	Amoui
on	tract Item	Quantity	Unit		Payment	Estimate	to Date	to Dat
11	8" Heavy Cleaning and Televising (Bid Item #2)	***************************************	LFT	\$1.00	1,971.00	1,971.0		
nal	12" Heavy Cleaning and Televising (Bid Item #3)		LFT	\$1.00	3,234.00	3,234.0		
	15" Heavy Cleaning and Televising (Bid Item #4)		LFT	\$1.00	(1,868.00)	-1,868.0		
	21" Heavy Cleaning and Televising (Bid Item #5)		LFT	\$1.00	622.00	622.0		Materia
	8" Relining (Bid Item #6)		LFT	\$30,00	(312.0)	-9,360.0		
	10" Relining (Bid Item #7)		LFT	\$31.00	(979.0)	-30,349.0		
	12" Relining (Bid Item #8)		LFT	\$34.00	(3,919.0)	-133,246.0		
	15" Relining (Bid Item #9)		LFT	\$36,00	(128.0)	-4,608.0		
	18" Relining (Bid Item #10)		LFŢ	\$45,00	(1,819.0)	~81,855.0	***	
	21" Relining (Bid Item #11)		LFT	\$50.00	(79.0)	-3,950,0	Hera	
	Grout 8" Joints (Bid Item #12)		EA	\$10.00	(75.0)	-750,0		****
	Grout 10" Joints (Bid Item #13)		EA	\$10.00	(10.0)	-100.0		
	Grout 12" Joints (Bid Item #14)		EA	\$10.00	(99.0)	-990.0		
	Grout 15" Joints (Bid Item #15)		EA	\$10.00	(20.0)	-200.0		
	Grout 18" Joints (Bid Item #16)	· .	EA	\$10.00	(20.0)	-200.0		
	Grout 21" Joints (Bid Item #17)		EA	\$10.00	(10.0)	-100.0		4
	8" Spot Repairs (Bid Item #18)		LFT	\$775.00	(103.0)	-79,825.0		www
	10" Spot Repairs (Bid Item #19)		LFT	\$775.00	(10.0)	-7,750.0		
	12" Spot Repairs (Bid Item #20)		LFT	\$775.00	29.0	22,475.0		
	18" Spot Repairs (Bid Item #21)		LFT	\$775.00	(10.0)	-7,750.0		
	18" Spot Liners (Bid Item #22)		EΑ	\$4,000.00	(4.0)	-16,000.0		
	Fix Protruding Lead (Bid Item #23)		EA	\$25.00	(121.0)	-3,025.0		
	Manhole Rehabilitation (Division B - Pay Item #2)		VF	\$102,00	88,2	8,996.4	mbi-	henn
	Replace Frame and Cover (Division B - Pay Item #3)		EA	\$1,150.00	1,0	1,150.0		
	Grout Manhole Leaks (Division B - Pay Item #4)		EA	\$250.00	(15.0)	-3,750.0		hen
	Replace Manhole Cover (Division B - Pay Item #5)		EΑ	\$1,000.00	(2.0)	-2,000.0		
	Raise Manhole (<6") (Division B - Pay Item #6)		EA	\$1,150.00	6.0	6,900.0		
	4' dia. Sanitary Manhole (C.O. 1A)		EA	\$7,500.00	1.0	7,500.0	***	
	5' dia. Sanitary Manhole Over Existing (C.O. 1A)		EA	\$11,500.00	(1.0)	-11,500.0		
	21" San. Sewer - C76, CL IV Prem Joint (C.O. 1A)		LFT	\$130.00	(2.0)	-260.0		n==
	6" San. Lead - Sch 40 PVC or SDR 23,5 (C,O, 1A)		LFT	\$25.00	17.0	425.0		w
	Reduced odor - 8" Relining (C.O. 4, 6A & 9)		LFT	\$6,50	(42.0)	-273.0		
	Reduced odor - 10" Relining (C.O. 4, 6A & 9)		LFT	\$6.50	(819.0)	-5,323.5		
	Reduced odor - 12" Relining (C.O. 4, 6A & 9)		LFT	\$10.50	(2,070.0)	-21,735.0		
	Reduced odor - 15" Relining (C.O. 4, 6A & 9)		LFT	\$13.50	38.0	513.0		
	Reduced odor - 18" Relining (C.O. 4, 6A & 9)		LFT	\$17.50	(1,295.0)	-22,662.5		
	Reduced odor - 21" Relining (C.O. 4, 6A & 9)		LFT	\$22.50	(104.0)	-2,340.0		
	Contract Time Extension	1,217	DAYS		· ']			****

FINAL SUB-TOTAL \$2,322,393.64

GENERAL CONDITIONS

CONTRACTOR'S DECLARATION

The undersigned, DALE NEWRY	, hereby declares that I have not, during the period
December 1,2014 to April 30,2016, A.	D., 20 , performed any work furnished any material,
sustained any loss, damage or delay for any reaso	n, including soil conditions encountered or created, or
Blow of old Tues	c, demand, sue for, or claim compensation from
<u>CSO Drainage District</u> the Owner, or its agent	s, in addition to the regular items set forth in the Contract
numbered HRC Job No. 20100230 and dated	9 October , A.D., 2010, for
Bloomfield Tup. CSO District, Sever Reh	abilitation and Maple Rd. Sever Relocation
executed between myself and the Owner, and in	the Change Orders for work issued by the Owner, in
writing, as provided thereunder and/or extension of	of time, except as set forth on the itemized statement
attached hereto.	
There □ is ☑ is not an itemized statement attache	ed.
Date: May 19, 2016	
	LIQUIFORE SERVICES (USA) INC. (Contractor)
	By: DALE NEWBY
	Title CIERMONS MONACOR

CONTRACTOR'S AFFIDAVIT

STATE OF MICHIGAN) ss (COUNTY OF WASHIELD)	
Sewer Rehabilitation Protect indec	represents that on 2/14/11 it was awarded a <u>District</u> , hereinafter called the Owner, to cordance with the terms and conditions of Contract No. ents that the subject work has now been accomplished
Contract has been fully or satisfactorily secured, and and material used in accomplishing the said project, of the said Contract, have been fully paid or satisfactorily secured, and and material used in the said Contract.	t all of its indebtedness arising by reason of the said I that all claims from Subcontractors and others for labor as well as all other claims arising from the performance ctorily secured. The undersigned further agrees that if he responsibility for the same immediately upon request
hereby waive, release and relinquish any and all cla	receipt of which is hereby acknowledged, does further aims or right of lien which the undersigned now has or r labor and material used in accomplishing said project
This affidavit is freely and voluntarily given with full, 20 ib	knowledge of the facts, on this
•	LIQUIFORGE SORVICES (USA) INC. (Contractor)
	By: Jane News
	Title ORERATIONS MANAGE
Subscribed and sworn to before me, a Notary Publi in and for wash here. County, Michigan, on this 19 day of May . 2016.	J. M. PARKER
Notary Public My Commission Expires: $2 - 14 - 202$	NOTARY PUBLIC, STATE OF MI COUNTY OF WASHTENAW MY COMMISSION EXPIRES Feb 14, 2022 ACTING IN COUNTY OF WAY TO A

Page GC-36 of GC-36

Rev. 06/11/2008

Owner

Architect

CONSENT OF SURETY TO REDUCTION IN OR Contractor Surety

X

PARTIAL RELEASE OF RETAINAGE AIA DOCUMENT G707A

Other

Bond No. 1000877527

PROJECT: Bloomfield Township SCO Drain Sewer Rehabilitation, Bloomfield Township, Oakland (name, address) County, Michigan

TO: (Owner)

ARCHITECT'S PROJECT NO:

Bloomfield Township 4200 Telegraph Road Bloomfield Hills, MI 48302

CONTRACT FOR: Bloomfield Township SCO Drain Sewer Rehabilitation, Bloomfield Township, Oakland County, Michigan CONTRACT DATE:

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the (here insert name and address of Surety as it appears in the bond).

U.S. Specialty Insurance Company 5601 Granite Parkway, Suite 1100 Plano, Texas 75024-6094

SURETY.

on bond of (here insert name and address of Contractor as it appears in the bond)

Liqui-Force Services (USA) Inc. 28529 Goddard Rd., Suite 106 Romulus, Michigan 48174

CONTRACTOR

hereby approves of the reduction in or partial release of retainage to the Contractor as follows: Reduce Retainage to Zero Percent (0%)

The Surety agrees that such reduction in or partial release of retainage to the Contractor shall not relieve the Surety of any of its obligations to (here insert name and address of Owner)

Bloomfield Township 4200 Telegraph Road

OWNER.

Bloomfield Hills, Michigan 48302

as set forth in the said Surety's bond.

IN WITNESS WHEREOF,

the Surety Company has hereunto set its hand this 16th day of October, 2014

Surety Company

U.S. Specialty Insurance Company

ized Representative

Attest:

(Seal)

Jennifer A. Gareffa - Attorney-In-Fact

AIA DOCUMENT G707A-CONSENT OF SURETY COMPANY TO REDUCTION IN OR PARTIAL RELEASE OF RETAINAGE-JUNE 1971 EDITION-AIA 1971-THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVENUE, NW, WASHINGTON, D.C. 20006



AMERICAN CONTRACTORS INDEMNITY COMPANY UNITED STATES SURETY COMPANY U.S. SPECIALTY INSURANCE COMPANY

KNOW ALL MEN BY THESE PRESENTS: That American Contractors Indemnity Company, a California corporation, United States

Surety Company, a Maryland corporation and U.S. Specialty Insurance Company, a Texas corporation (collectively, the "Companies"), do by these presents make, constitute and appoint:

Robert Trobec, Alan P. Chandler, Jeffrey A. Chandler, Kathleen M. Irelan, Ian J. Donald or Jennifer A. Gareffa of Troy, Michigan

This Power of Attorney shall expire without further action on December 08, 2016. This Power of Attorney is granted under and by authority of the following resolutions adopted by the Boards of Directors of the Companies:

Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and on behalf of the Company, to execute acknowledge and deliver; any and all bonds recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings, including any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts, and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and scaled and effected by the Corporate Secretary.

Be it Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached.

IN WITNESS WHEREOF, The Companies have caused this instrument to be signed and their corporate seals to be hereto affixed; this 10th day of December, 2012.

AMERICAN CONTRACTORS INDEMNITY COMPANY UNITED STATES SURETY COMPANY U.S. SPECIALTY INSURANCE COMPANY

Corporate Seals







Daniel P. Aguilar, Vice President

State of California

County of Los Angeles SS

On 10th day of December, 2012, before me, Vanessa Wright, a notary public, personally appeared Daniel P. Aguitat, Vice President of American Contractors Indemnity Company, United States Surety Company and U.S. Specialty Insurance Company who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct WITNESS my hand and official seal.

Signature

VIMS-

(Seal)

V. WRIGHT.
Commission ≠ 1998319
Notary Public - California
Los Angeles County
My Comm. Expires Dec 8, 2016

I, Jeannie Lee, Assistant Secretary of American Contractors Indemnity Company, United States Surety Company and U.S. Specialty Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Companies, which is still in full force and effect, furthermore, the resolutions of the Boards of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the seals of said Companies at Los Angeles, California this it is day of 101000, 2014

Corporate Seals

Bond No. <u>i 00 0 8 1752 7</u> Agency No. <u>17050</u>







Jeannie Lee, Assistant Secretary

ROAD COMMISSION FOR OAKLAND COUNTY OF MACCONDANCE SERVICES DEPARTMENT OF CUSTOMER SERVICES DEPARTMENT OF CUSTOMER SERVICES DEPARTMENT OF CUSTOMER SERVICES DEPARTMENTS

(248) 858-4835

CONSTRUCTION BOND

DO NOT WRITE IN THIS BOX

APPLICATION # 30-464 PERMIT # 53619

TOWNSHIP Bloomfield

CONCINCO HON BOND	O DEPARTMENT OF CUSTOMER, S.
SURETY BOND # 24898179	SERVICE PRINTER Fective Date: February 16th, 2011
KNOW ALL MEN BY THESE PRESENTS:	LAND COS
That Liqui-Force Services (USA) Inc.	of
Romulus, Michigan	, as Principal, and
WESTERN SURETY COMPANY	of
P.O. Box 5077, Sioux Falls, SD 571	117-5077
duly authorized to transact business in the State of Mick ROAD COMMISSIONERS OF THE COUNTY OF O.	nigan, as surety, are held and firmly bound unto the BOARD OF COUNTY AKLAND, a Michigan public body corporate, in the penal sum of
Twenty Five Thousand and 00/100	(\$ 25,000.00) DOLLARS,
	aid to the said BOARD OF COUNTY ROAD COMMISSIONERS OF THE assigns, to which payment well and truly to be made, we bind ourselves, our and each and every one of them firmly be these presents.
SEALED with our seals and dated this16th day of	ofFebruary,2011
WHEREAS, The above bounden <u>Liqui-Force Service</u> has made application to the BOARD OF COUNTY ROA construction within the right-of-way as stated in the appli	D COMMISSIONERS OF THE COUNTY OF OAKLAND for a permit for
NOW, THEREFORE, The condition of this obligati	on is such that in case said permit is granted, if the said
Liqui-Force Services (USA) Inc.	, the above bounden, shall construct
COMMISSIONERS OF THE COUNTY OF OAKLAND ar maintenance, and all other damages, fines and penaltic COUNTY ROAD COMMISSIONERS OF THE COUNTY	in the permit therefor issued by said BOARD OF COUNTY ROAD and shall well and truly pay all damages on account of such construction and ses which he shall become liable to pay, and shall save said BOARD OF OF OAKLAND harmless from all suits, claims, damages and proceedings of ce of said work, and shall observe all the terms and conditions of the permit all force and virtue.
THIS BOND SHALL NOT EXPIRE UNTIL SUCH TIME A	S THE PERMIT, FOR WHICH THIS BOND IS REQUIRED, IS RELEASED.
Signed, sealed and delivered in the presence of	Liqui-Force Services (USA) Inc. Principal John Thompson
Witness	Principal's Signature Printed Name & Title 28229 Goddard Road Suite 106 P.O. Box, Address, Street
Witness Mily Market	Romulus, MI 48174 734 955-250 Telephone
Witness Jennifer Gareffa	WESTERN SURETY COMPANY Súren Surety Company
Witness	Surety's Signature Kathleen M. Irelan, Attorney-in-Fact P.O. Box 5077 P.O. Box, Address, Street
Kristen De Long	Sioux Falls, SD 57117-5077 605-336-0850 City, State, Zip Telephone

NOTE: INCOMPLETE OR INVALID SURETY ADDRESSES DELAYS RELEASE OF BOND, IN WHICH CASE WE WILL RELEASE TO THE PRINCIPAL FOR THEIR RECORDS.

FORM 75 (Rev. 7/10)

Form	

BOND NO	1000877527	

MAINTENANCE AND GUARANTEE BOND

KNOW ALL MEN BY THESE PRESENTS, That we Liqui-Force Services, Inc., as Principal, and U.S. Specialty Insurance Company 13403 Northwest Freeway. Houston, Texas 77040 are held and firmly bound unto the Bloomfield Township CSO Drainage District in the sum of One million, seven hundred eighteen thousand, seven hundred-sixty, and 00/100 Dollars (\$1,718,760.00) good and lawful money of the United States of America, to be paid to said Bloomfield Township CSO Drainage District, its legal representatives and assigns, for which payment well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, and each and every one of them jointly and severally, firmly by these presents.

Sealed with our seals and dated this 22 day of December A.D., 2010.

WHEREAS, the above named Principal has entered into a certain written Contract with the Bloomfield Township CSO Drainage District dated this day of February A.D., 2011, wherein the said Principal covenanted and agreed as follows, to wit to perform all work and provide all materials associated with the Bloomfield Township CSO District Sewer Rehabilitation Project.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH, that by and under such Contract, the above named Principal has agreed with the Bloomfield Township CSO Drainage District for a period of **two (2)** years from the date of final acceptance, to keep in good order and repair any defect in all the work done under said Contract either by the Principal or its subcontractors, or its material suppliers, that may develop during said period due to improper materials, defective equipment, workmanship or arrangements, and any other work affected in making good such imperfections, shall also be made good all without expense to the Owner, excepting only such part or parts of said work as may have been disturbed without the consent or approval of the Principal after the final acceptance of the work, and that whenever directed to do so by the Bloomfield Township CSO Drainage District, by Notice served in writing, either personally or by mail, on the Principal at 28529 Goddard Drive, Suite 106, Romulus, Michigan 48174 or legal representatives, or successors, or on the Surety at 13403 Northwest Freeway, Houston, Texas 77040

JOHN P. McCULLOCH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER
Page MGB-1 of MGB-2

WILL PROCEED at once to make such repairs as directed by said Bloomfield Township CSO Drainage District and such notice, nor within reasonable time not less than ten (10) days, as shall be fixed in said Notice, then the Owner shall have the right to purchase such materials and employ such labor and equipment as may be necessary for the purpose, and to undertake, do and make such repairs, and charge the expense thereof to, and receive same from said Principal or Surety. If any repair is necessary to be made at once to protect life and property, the Bloomfield Township CSO Drainage District may take any immediate steps to repair, barricade defects or other action without notice to contractor. In said case, the Owner shall not be held to obtain the lowest figures for doing of the work, or any part thereof, but all sums actually paid therefor shall be charged to the Principal or Surety. In this connection the judgment of the Bloomfield Township CSO Drainage District is final and conclusive. If the said Principal for the period of two years from the date of final acceptance, shall keep said work so constructed under said Contract in good order and repair, excepting only such part or parts of said work which may have been disturbed without the consent or approval of said Principal after the final acceptance of the same, and shall, whenever notice is given as hereinbefore specified, at once proceed to make repair as in said notice directed, or shall reimburse said Bloomfield Township CSO Drainage District for any expense incurred by making such repairs, should be Principal or Surety fail to do so as hereinbefore specified, and shall fully indemnify, defend and save harmless the said Bloomfield Township CSO Drainage District from all suits and actions for damages of every name and person or property received or sustained by any party or parties, by or from any of the acts or omissions or through the negligence of said Principal. servants, agents, or employees, in the prosecution of the work included in said Contract, and from any and all claims arising under the Workman's Compensation Act, so-called, of the State of Michigan, then the above obligation shall be void; otherwise, it will remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused this instrument to be executed by their respective authorized officers this __22__ day of __December _____, A.D., 2010.

Signed, Sealed and Delivered in the Presence of:

Liqui-Force Services (USA) Inc.

S.S. Specialty Insyrance Company

By:

Kathleen M. Irelan, Attorney-In-Fact

JOHN P. McCULLOCH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER
Page MGB-2 of MGB-2

01/29/02

(L.S.)

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TOID





POWER OF ATTORNEY

AMERICAN CONTRACTORS INDEMNITY COMPANY TEXAS BONDING COMPANY UNITED STATES SURETY COMPANY U.S. SPECIALTY INSURANCE COMPANY

KNOW ALL MEN BY THESE PRESENTS: That American Contractors Indemnity Company, a California corporation, Texas Bonding Company, an assumed name of American Contractors Indemnity Company of the State of California, a California corporation, United States Surety Company, a Maryland corporation and U.S. Specialty Insurance Company, A Texas corporation (collectively, the "Companies"), do by these presents make, constituted and appoint:

Robert Trobec, Alan P. Chandler, Jeffrey A. Chandler, Kathleen M. Irelan, Chad Teague or Ian J. Donald of Troy, Michigan

its true and lawful Attorney(s)-in-fact, each in their separate capacity if more than one is named above, with full power and authority hereby conferred in its name, place and stead to execute, acknowledge and deliver any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include riders, amendments, and consents of surety, providing the bond-penalty does not exceed *****Ten Million*****

Dollars (\$ **10,000,000.00***).

This Power of Attorney shall expire without further action on December 8, 2012. This Power of Attorney is granted under and by authority of the following resolutions adopted by the Boards of Directors of the Companies:

Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-In-Fact may be given full power and authority for and in the name of and on behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such attorney in Fact shall be binding upon the Company as if signed by the President and scaled and effected by the Corporate Secretary.

Be it Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached.

IN WITNESS WHEREOF, The Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 15th day of June, 2009.

AMERICAN CONTRACTORS INDEMNITY COMPANY TEXAS BONDING COMPANY UNITED STATES SURETY COMPANY U.S. SPECIALTY INSURANCE COMPANY

Corporate Seals

SEAL PROFILE STREET



By Damiel P. Aguil:

Daniel P. Aguilar, Vice Presiden

State of California

County of Los Angeles SS:

On this 15th day of June, 2009, before me, V. Wright, a notary public, personally appeared Daniel P. Aguilar, Vice President of American Contractors Indemnity Company, Texas Bonding Company, United States Surety Company and U.S. Specialty Insurance Company who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Signature (Seal)



I, Jeannie J. Kim, Assistant Secretary of American Contractors Indemnity Company, Texas Bonding Company, United States Surety Company and U.S. Specialty Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Companies, which is still in full force and effect; furthermore, the resolutions of the Boards of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the seals of said Companies at Los Angeles, California this of December 2010

and day

Corporate Seals

Bond No. 100087152









Jeannie J. Kim, Assistant Secretary



OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MEMORANDUM

TO: Jim Nash, Chairperson of the Bloomfield Township CSO Drain Drainage Board

FROM: Geoff S. Wilson, P.E., Chief Engineer, Drain Maintenance

Bloomfield Township CSO Drain Engineering Services – District and Route SUBJECT:

Description

DATE: April 23, 2024

Bloomfield Township currently operates and maintains the Bloomfield Township CSO Drain through an agreement with the Bloomfield Township CSO Drain Drainage District. There exists ambiguity in both the establishment documents for the Bloomfield Township CSO Drain and the existing operation and maintenance agreement between the drainage district and Bloomfield Township. To clarify and establish maintenance responsibilities going forward, the drain should be defined on a route and course and the benefitting properties should be determined. This will allow Bloomfield Township and the drainage district to pursue one of the following two options:

- 1.) Reestablish the legal course of the Bloomfield Township CSO Drain based on the existing system route and determine an apportionment based on benefitting properties.
- 2.) Relinquish the Bloomfield Township CSO Drain to Bloomfield Township.

Spicer Group, LLC, which provides drainage district benefitting property studies, and route and course descriptions on many Oakland County drains, will provide these services for the Bloomfield Township CSO Drain as described in its March 27, 2024 letter.

Recommendation: Authorize Spicer Group, LLC to proceed with engineering services to prepare a route and course description of existing infrastructure of the drain and identify the benefitting properties for an amount not to exceed \$18,500 per its March 27, 2024 proposal.

> OAKLAND COUNTY WATER RESOURCES COMMISSIONER Rev.: 11/05/08



March 27, 2024

Geoff S. Wilson, P.E. Chief Engineer - Oakland County Water Resources Commissioner 1200 N. Telegraph Road Pontiac, MI 48341

RE: Professional Services for Bloomfield Township CSO Drain

Mr. Wilson,

At your request, we propose to provide professional engineering services for preparing a route and course description for the Bloomfield Township CSO Drain. The following letter agreement outlines our understanding of the project, proposed scope of services, and fee related to preparing route and course documents.

Project Understanding

It is our understanding that the Oakland County Water Resources Commissioner's Office is working to describe the route of the Bloomfield Township CSO Drain. Oakland County is requesting assistance in reviewing the existing drain centerline and establishing a naming system for all branches of the drain. At your request, each description will be tied down to a section corner and the beginning catchbasin.

Scope of Services

Based on our understanding of the project, the scope and fee for our professional engineering services is as follows:

- 1. Review an existing conditions plan and profile drawing of the infrastructure to be described.
- 2. Compile available storm sewer, sanitary sewer, parcel, section, and topographic information in a GIS basemap. We anticipate the data will be provided to us from Oakland County in a GIS format, such as shapefiles, raster images, or geodatabases.
- 3. Prepare a route and course description of existing infrastructure. This will be provided in a Word Document format, accompanied by digital shapefiles of the drain centerline with branches named to match the route and course description.
- 4. Prepare an approximate drainage delineation based on available GIS data and LiDAR topography.

Our anticipated fee for this part of the project as outlined above is \$15,800.

Services Not Included

For a clearer understanding of our work scope, the following items are not included in our Scope of Basic Professional Services at this time. We understand you may wish to proceed with some of these services after we have completed the above tasks and can provide you with a supplemental agreement at that time. Additional services related to this project will be furnished by us only after you authorize the work.

- Topographic survey
- Review of historical drain documents
- Field verification of drainage district boundaries
- Metes and bounds description of drainage district boundaries

March 27, 2024 Page 2 of 2

- 14A calculations
- Notification or assessment rolls
- Maps of drain or drainage district

Fee Structure

Our fees are based on our standard hourly rates; therefore, invoices will be for actual hours of service provided on this project. Our estimated fees on this project are based upon our experience with the actual time required on previous projects of this type. We will submit monthly invoices to you for services furnished and for any reimbursable expenses during each phase of the authorized work.

We have calculated our fees based on our current understanding of the project. Should we approach the amount of the fee for any reason before we are finished with the work, if the scope changes, or if our understanding was incorrect, we will notify you and discuss with you the option of further adjusting the amount of the fee or adjusting the scope of services. Attached to this letter is a copy of our general conditions for our services which are part of this agreement. Any changes to this agreement must be agreed to by both of us in writing.

If this proposal meets with your approval, please acknowledge your approval by signing and returning it to our office. We deeply appreciate your confidence in our firm, and we are looking forward to working with you on this project.

Above proposal accepted and approved by Owner:

Steven K. Roznowski, P.E.

Principal
mailto: stever@spicergroup.com

By:

Geoff S. Wilson, P.E.
Chief Engineer - Oakland County Water Resources
Commissioner

William J. Becker

Project Manager
mailto: williamb@spicergroup.com

SPICER GROUP, INC

30300 Telegraph Road, Suite 100 Bingham Farms, MI 48025 Phone: (248) 985-2900

Encl.: Spicer Group General Conditions

SMC, Accounting

GENERAL CONDITIONS ATTACHED TO LETTER AGREEMENT

SECTION 1

1.1 **Preamble.** This agreement is based upon a mutual obligation of good faith and fair dealing between the parties in its performance and enforcement. Accordingly, the OWNER and the PROFESSIONAL, with a positive commitment to honesty and integrity, agree to the following:

That each will function within the laws and statutes that apply to its duties and responsibilities; that each will assist in the other's performance; that each will avoid hindering the other's performance; that each will work diligently to fulfill its obligations; and that each will cooperate in the common endeavor of the contract.

- 1.2 **Ownership of Instruments of Service.** All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the PROFESSIONAL as instruments of service shall remain the property of the PROFESSIONAL. The PROFESSIONAL shall retain all common law, statutory and other reserved rights, including the copyright thereto.
- 1.3 **Covenant not to Hire.** OWNER agrees that during the term of this agreement and for a period of one (1) year thereafter that it will not hire for its own employment any person employed by the PROFESSIONAL in the performance of this agreement.
- 1.4 **Standard of Care.** Service performed by PROFESSIONAL under this AGREEMENT will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No other representation, express or implied, and no warranty or guarantee is included or intended in this AGREEMENT, or in any report, opinion, document or otherwise.
- 1.5 **Defects in Service.** OWNER and OWNER's personnel, contractors and subcontractors shall upon discovery promptly report to PROFESSIONAL any defects or suspected defects in PROFESSIONAL's work, in order that PROFESSIONAL may take prompt, effective measures which in PROFESSIONAL's opinion will minimize the consequences of a defect in service. PROFESSIONAL shall not be responsible for additional costs due to any tardiness in reporting defects in service.
- 1.6 **Reimbursable Expenses** mean the actual expenses incurred by PROFESSIONAL or PROFESSIONAL's independent professional associates or consultants, directly or indirectly in connection with the Project, such as expenses for; transportation and subsistence incidental thereto; obtaining bids or proposals from Contractor(s); providing and maintaining field office facilities including furnishings and utilities; subsistence and transportation of Resident Project Representatives and their assistants; toll telephone calls and courier services; reproduction of reports, drawings, specifications, bidding documents, and similar project-related items; and, if authorized in advance by OWNER, overtime work requiring higher than regular rates.

- 1.7 **Standard Hourly Rates** used as a basis for payment mean those rates in effect at the time that the work is performed, for all PROFESSIONAL's personnel engaged directly on the Project, including, but not limited to, architects, engineers, surveyors, designers, planners, drafters, specification writers, estimators, other technical and business personnel. The Standard Hourly Rates include salaries and wages, direct and indirect payroll costs and fringe benefits. The Standard Hourly Rates of personnel of PROFESSIONAL will be adjusted periodically to reflect changes in personnel and in PROFESSIONAL's overall compensation procedures and practices.
- 1.8 **Limitation of Liability.** To the fullest extent permitted by law, and not withstanding any other provision of this Agreement, the total liability, in the aggregate, of the PROFESSIONAL and the PROFESSIONAL's officers, directors, partners, employees and subconsultants, and any of them, to the OWNER and anyone claiming by or through the OWNER, for any and all claims, losses, costs or damages, including attorneys' fees and costs and expertwitness fees and costs of any nature whatsoever or claims expenses resulting from or in any way related to the Project or the Agreement from any cause or causes shall not exceed the total compensation received by the PROFESSIONAL under this Agreement, or the total amount of \$100,000.00, whichever is greater. It is intended that this limitation apply to any and all liability or caused of action however alleged or arising, unless otherwise prohibited by law.
- 1.9 **Indemnification.** The PROFESSIONAL agrees, to the fullest extent permitted by law, to indemnify and hold harmless the OWNER, its officers, directors and employees (collectively, Owner) against all damages, liabilities or costs, including reasonable attorneys' fees and defense costs, to the extent caused by the PROFESSIONAL's negligent performance of professional services under this Agreement.

The OWNER agrees, to the fullest extent permitted by law, to indemnify and hold harmless the PROFESSIONAL, its officers, directors, employees and subconsultants (collectively, Professional) against all damages, liabilities or costs, including reasonable attorneys' fees and defense costs, to the extent caused by the OWNER's negligent acts in connection with the Project and the acts of its contractors, subcontractors or PROFESSIONAL or anyone for whom the OWNER is legally liable.

Neither the OWNER nor the PROFESSIONAL shall be obligated to indemnify the other party in any manner whatsoever for the other party's own negligence.

- 1.10 **Severability.** Any term or provision of this Agreement found to be invalid under any applicable statute or rule of law shall be deemed omitted and the remainder of this Agreement shall remain in full force and effect.
- 1.11 **Survival.** Notwithstanding completion or termination of this Agreement for any reason, all rights, duties and obligations of the parties to this Agreement shall survive such completion or termination and remain in full force and effect until fulfilled.

- 1.12 **Betterment.** If, due to the PROFESSIONAL's negligence, a required item or component of the Project is omitted from the PROFESSIONAL's construction documents, the PROFESSIONAL shall not be responsible for paying the cost required to add such item or component to the extent that such item or component would have been required and included in the original construction documents. In no event will the PROFESSIONAL be responsible for any cost or expense that provides betterment or upgrades or enhances the value of the Project.
- 1.13 **Mediation.** In an effort to resolve any conflicts that arise during the design and construction of the Project or following the completion of the Project, the OWNER and the PROFESSIONAL agree that all disputes between them arising out of or relating to the Agreement or the Project shall be submitted to nonbinding mediation unless the parties mutually agree otherwise.

The OWNER and the PROFESSIONAL further agree to include a similar mediation provision in all agreements with independent contractors and consultants also to include a similar mediation provision in all agreements with their subcontractors, subconsultants, suppliers and fabricators, thereby providing for mediation as the primary method for dispute resolution between the parties to all those agreements.

- 1.14 Changed Conditions. If, during the term of this Agreement, circumstances or conditions that were not originally contemplated by or known to the PROFESSIONAL are revealed, to the extent that they affect the scope of services, compensation, schedule, allocation of risks or other material terms of this Agreement, the PROFESSIONAL may call for renegotiation of appropriate portions of this Agreement. The PROFESSIONAL shall notify the OWNER of the changed conditions necessitating renegotiation, and the PROFESSIONAL and the OWNER shall promptly and in good faith enter into renegotiation of this Agreement to address the changed conditions.
- 1.15 Hazardous Materials. Both parties acknowledge that the PROFESSIONAL's scope of services does not include any services related to the presence of any hazardous or toxic materials. In the event the PROFESSIONAL or any other party encounters any hazardous or toxic materials, or should it become known to the PROFESSIONAL that such materials may be present on or about the job site or any adjacent areas that may affect the performance of the PROFESSIONAL's services, the PROFESSIONAL may, at its option and without liability for consequential or any other damages, suspend performance of its services under this Agreement until the OWNER retains appropriate PROFESSIONAL's or contractors to identify and abate or remove the hazardous or toxic materials and warrants that the job site is in full compliance with all applicable laws and regulations.

SECTION 2

2.1 **Assignment.** Neither party to this Agreement shall transfer, sublet or assign any rights under or interest in this Agreement (including but not limited to monies that are due or monies that may be due) without the prior written consent of the other party. Subcontracting to subconsultants normally contemplated by the PROFESSIONAL shall not be considered an assignment for purposes of this Agreement.

- 2.2 **Governing Law & Jurisdiction.** The OWNER and the PROFESSIONAL agree that this Agreement and any legal actions concerning its validity, interpretation and performance shall be governed by the laws of the State of Michigan.
- 2.3 **Billing and Payment Terms.** *Payment Due:* invoices shall be submitted by the PROFESSIONAL (monthly) are due upon presentation and shall be considered past due if not paid within thirty (30) calendar days of the due date. *Interest:* If payment in full is not received by the PROFESSIONAL within thirty (30) calendar days of the due date, invoices shall bear interest at one-and one-half (1.5) percent of the PAST DUE amount per month, which shall be calculated from the invoice due date. Payment thereafter shall first be applied to accrued interest and then to the unpaid principal.
- **Suspension of Services.** If the OWNER fails to make payments when due or otherwise is in breach of this Agreement, the PROFESSIONAL may suspend performance of service upon ten (10) calendar days' notice to the OWNER. The PROFESSIONAL shall have no liability whatsoever to the OWNER for any costs or damages as a result of such suspension caused by any breach of this Agreement by the OWNER. Upon payment in full by the OWNER the PROFESSIONAL shall resume services under this Agreement, and the time scheduled and compensation shall be equitably adjusted to compensate for the period of suspension plus any other reasonable time and expenses necessary for the PROFESSIONAL to resume performance. Termination of Services: If the OWNER fails to make payment to the PROFESSIONAL in accordance with the payment terms herein, this shall constitute a material breach of this Agreement and shall be cause for termination of this Agreement by the PROFESSIONAL. Set-off, Backcharges, Discounts: Payment of invoices shall not be subject to any discounts or set-off's by the OWNER unless agreed to in writing by the PROFESSIONAL. Payment to the PROFESSIONAL for services rendered and expenses incurred shall be due and payable regardless of any subsequent suspension or termination of this Agreement by either
- 2.5 **Collection of Costs.** In the event legal actions necessary to enforce the payment terms of this Agreement, the PROFESSIONAL shall be entitled to collect from the OWNER any judgement or settlement sums due, plus reasonable attorneys' fees, court costs and other expenses incurred by the PROFESSIONAL in connection therewith and, in addition, the reasonable value of the PROFESSIONAL's time and expenses spent in connection with such collection action, computed according to the PROFESSIONAL's prevailing fee schedule and expense policies.
- 2.6 **Delays.** The OWNER agrees that the PROFESSIONAL is not responsible for damages arising directly or indirectly from any delays for causes beyond the PROFESSIONAL's control. For purposes of this Agreement, such causes include, but are not limited to, strikes or other labor disputes; severe weather disruptions or other natural disasters; fires, riots, war or other emergencies or acts of God; failure of any government agency to act in timely manner; failure of performance by the OWNER or the OWNER's contractors or consultants; or discovery of any hazardous substances or differing site conditions.

In addition, if the delays resulting from any such causes increase the cost or time required by the PROFESSIONAL to perform its services in an orderly and efficient manner, the PROFESSIONAL shall be entitled to an equitable adjustment in schedule and/or compensation.

2.7 **Delivery and Use of Electronic Files.** In accepting and utilizing any drawings, reports and data on any form of electronic media generated and furnished by the PROFESSIONAL, the OWNER agrees that all such electronic files are instruments of service of the PROFESSIONAL, who shall be deemed the author, and shall retain all common law, statutory law and other rights, including copyrights.

The OWNER agrees not to reuse these electronic files, in whole or in part, for any purpose other than for the Project. The OWNER agrees not to transfer these electronic files to others without the prior written consent of the PROFESSIONAL. The OWNER further agrees to waive all claims against the PROFESSIONAL resulting in any way from any unauthorized changes to or reuse of the electronic files for any other project by anyone other than the PROFESSIONAL.

The OWNER and the PROFESSIONAL agree that any electronic files furnished by either party shall conform to the original specifications. Any changes to the original electronic specifications by either the OWNER or the PROFESSIONAL are subject to review and acceptance by the other party. Additional services by the PROFESSIONAL made necessary by changes to the electronic file specifications shall be compensated for as Additional Services.

Electronic files furnished by either party shall be subject to an acceptance period of fourteen (14) days during which the receiving party agrees to perform appropriate acceptance tests. The party furnishing the electronic file shall correct any discrepancies or errors detected and reported within the acceptance period. After the acceptance period, the electronic files shall be deemed to be accepted and neither party shall have any obligation to correct errors or maintain electronic files.

The OWNER is aware that differences may exist between the electronic files delivered and the printed hard-copy construction documents. In the event of a conflict between the signed construction documents prepared by the PROFESSIONAL and electronic files, the signed or sealed hard-copy construction documents shall govern.

In addition, the OWNER agrees, to the fullest extent permitted by law, to indemnify and hold harmless the PROFESSIONAL, its officers, directors, employees and subconsultants (collectively, Professional) against all damages, liabilities or costs, including reasonable attorneys' fees and defense costs, arising from any changes made by anyone other than the PROFESSIONAL or from any reuse of the electronic files without the prior written consent of the PROFESSIONAL.

Under no circumstances shall delivery of electronic files for use by the OWNER be deemed a sale by the PROFESSIONAL, and the PROFESSIONAL makes no warranties, either expressed or implied, or merchantability and fitness for any particular purpose. In no event shall the PROFESSIONAL be liable for indirect or consequential damages as a result of the OWNER's use or reuse of the electronic files.

2.8 Opinions of Probable Construction Costs. In providing opinions of probable construction cost, the OWNER understands that the PROFESSIONAL has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that the PROFESSIONAL's opinions of probable construction costs are

made on the basis of the PROFESSIONAL's judgement and experience. The PROFESSIONAL makes no warranty, express or implied that the bids or the negotiated cost of the Work will not vary from the PROFESSIONAL's opinion of probable construction costs.

SECTION 3

- 3.1 Construction Layout. If requested by the Owner, or other authorized party, as detailed in the scope of services or as an Additional Service to this Agreement, the PROFESSIONAL shall provide construction layout stakes sufficient for construction purposes. The stakes will reflect pertinent information from the construction bidding and contract documents. The stakes shall be set in place one time by the PROFESSIONAL, staged and scheduled as requested by the Contractor. After the stakes are set, it shall be the Contractor's exclusive responsibility to protect the stakes from damage or removal. Once the stake is set, if the stake becomes unusable due to the Contractor's negligence it shall be reset by the PROFESSIONAL, only at the Contractor's direction. The cost for resetting the stakes shall be borne by the Contractor and shall be paid by the Owner or authorized representative of this Agreement to the PROFESSIONAL from monies due the Contractor from the construction contract. The Owner acknowledges and agrees that these staking requirements and the procedures and payments for restaking described in this section shall be stipulated in the General Conditions of the construction contract.
- **Jobsite Safety.** Neither the professional activities of the PROFESSIONAL, nor the presence of the PROFESSIONAL or its employees and subconsultants at a construction/project site, shall relieve the General Contractor of its obligations, duties and responsibilities including, but not limited to, construction means, methods, sequence, techniques or procedures necessary for performing, superintending and coordinating the Work in accordance with the contract documents and any health or safety precautions required by any regulatory agencies, the PROFESSIONAL and its personnel have no authority to exercise any control over any construction contractor or its employees in connection with their work or any health or safety programs or procedures. The OWNER agrees that the General Contractor shall be solely responsible for jobsite safety, and warrants that this intent shall be carried out in the OWNER's contract with the General Contractor. The OWNER also agrees that the OWNER, the PROFESSIONAL and the PROFESSIONAL's subconsultants shall be indemnified by the General Contractor and shall be made additional insureds under the General Contractor's policies of general liability insurance.
- 3.3 Construction Observation. The PROFESSIONAL shall visit the site if authorized at intervals appropriate to the stage of construction, or as otherwise agreed to in writing by the OWNER and the PROFESSIONAL, in order to observe the progress and quality of the Work completed by the Contractor. Such visits and observation are not intended to be an exhaustive check or a detailed inspection of the Contractor's work but rather are to allow the PROFESSIONAL, as an experienced professional, to become generally familiar with the Work in progress and to determine, in general, if the Work is proceeding in accordance with the Contract Documents.

Based on this general observation, the PROFESSIONAL shall keep the OWNER informed about the progress of the Work and shall endeavor to guard the OWNER against deficiencies in the work. If the OWNER desires more extensive project observation or fulltime project representation, the OWNER shall request that such services be provided by the PROFESSIONAL as Additional Services in accordance with the terms of this Agreement.

The PROFESSIONAL shall not supervise, direct or have control over the Contractor's work nor have any responsibility for the construction means, methods, techniques, sequences or procedures selected by the Contractor nor for the Contractor's safety precautions or programs in connection with the Work. These rights and responsibilities are solely those of the contractor in accordance with the Contract Documents.

The PROFESSIONAL shall not be responsible for any acts or omissions of the contractor, subcontractor, any entity performing any portions of the Work, or any agents or employees of any of them. The PROFESSIONAL does not guarantee the performance of the Contractor and shall not be responsible for the Contractor's failure to perform its Work in accordance with the Contract Documents or any applicable laws, codes, rules or regulations.

- 3.4 **Design Without Construction Administration.** Unless Authorized, it is understood and agreed that the PROFESSIONAL's Basic Services under this Agreement do not include project observation or review of the Contractor's performance or any other construction phase services, and that such services will be provided for by the OWNER. The OWNER assumes all responsibility for interpretation of the Contract Documents and for construction observation, and the OWNER waives any claims against the PROFESSIONAL that may be in any way connected thereto.
- 3.5 **Record Drawings.** If authorized by the Agreement, upon completion of the Work, the PROFESSIONAL shall compile for and deliver to the OWNER a reproducible set of Record Documents based upon the marked-up record drawings, addenda, change orders and other data furnished by the Contractor. These Record documents will show significant changes made during construction. Because these Record Documents are based on unverified information provided by other parties, which the PROFESSIONAL shall assume will be reliable, the PROFESSIONAL cannot and does not warrant their accuracy.

- 3.6 Contingency Fund. The OWNER and the PROFESSIONAL agree that certain increased cost and changes may be required because of possible omissions, ambiguities or inconsistencies in the drawings and specifications prepared by the PROFESSIONAL and, therefore, that the final construction cost of the Project may exceed the estimated construction cost. The OWNER agrees to set aside a reserve in the amount of 10 percent of the Project construction costs as a contingency to be used, as required, to pay for any such increased costs and changes. The OWNER further agrees to make no claim by way of direct or third-party action against the PROFESSIONAL or its subconsultants with respect to any increased costs within the contingency because of such changes or because of any claims made by the Contractor relating to such changes.
- 3.7 **Right of Entry.** OWNER shall provide for PROFESSIONAL's right to enter from time to time property owned by OWNER and/or other(s) in order for PROFESSIONAL to fulfill the scope of services indicated hereunder. OWNER understands that use of testing or other equipment may unavoidably cause some damage, the correction of which is not part of this AGREEMENT.
- 3.8 **Buried Utilities.** OWNER will furnish to PROFESSIONAL information identifying the type and location of utility lines and other man-made objects beneath the site's surface. PROFESSIONAL will take reasonable precautions to avoid damaging these man-made objects and will, prior to penetrating the site's surface furnish to OWNER a plan indicating the locations intended for these penetrations with respect to what PROFESSIONAL has been told are the locations of utilities and other man-made objects beneath the site's surface. OWNER will approve the location of these penetrations prior to their being made and OWNER will authorize PROFESSIONAL to proceed.

These General Conditions shall be attached to and made part of the Agreement between Spicer Group, Inc. (PROFESSIONAL) and the Owner.

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

8. Edwards Relief Drain

AGENDA

DRAINAGE BOARD FOR EDWARDS RELIEF DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of February 23, 2021
- 3. Public Comments
- 4. Present Memorandum from Geoff Wilson, P.E., Chief Engineer, Drain Maintenance, requesting the Board authorize Doetsch Industrial Services (AKA Doetsch Environmental Services) to proceed with services outlined in its February 25, 2024 proposal for a not-to-exceed amount of \$349,540 based on existing as-needed services contract 009838 and approve project budget of \$486,008 for the Edwards Relief Maintenance Repairs Project 17416
- 5. Other business
- 6. Approve pro rata payment to Drainage Board members
- 7. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE EDWARDS RELIEF DRAIN

February 23, 2021

A meeting of the Drainage Board for the Edwards Relief Drain was held at 2:00 p.m. on the 23rd of February, 2021. The meeting was conducted electronically via GoToMeeting in accordance with PA 267 of 1976, as amended, and/or as otherwise provided by law.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from Farmington Hills, Michigan.

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners, participating from Novi, Michigan.

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held January 26, 2021 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2

Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A request for approval of payment of invoices in the amount of \$3,597.73 (as attached) was presented. It was moved by Markham, supported by Nash, to approve the payment of invoices in the amount of \$3,597.73.

ADOPTED: Yeas - 2

Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2

Nays - 0

There being no further business, the meeting was adjourned.

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

Dated: March ____1__, 2021

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Edwards Relief Drain, Oakland County, Michigan, held on the 23rd day of February, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Edwards Relief Drain Drainage District.

Jim Nash, Chairperson

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MEMORANDUM

TO: Jim Nash, Chairperson of the Edwards Relief Drain Drainage Board

FROM: Geoff S. Wilson, P.E., Chief Engineer, Drain Maintenance

SUBJECT: Edwards Relief Drain Maintenance Repairs – Doetsch Environmental Services

DATE: April 23, 2024

Inspection of the Edwards Relief Drain in 2019 revealed several segments of pipe in need of repair. Staff prepared a scope of work and solicited pricing from three existing as-needed contractors who specialize in enclosed storm drain maintenance and repairs. Doetsch Environmental Services provided the most cost effective proposal for the work. WRC Staff has prepared the enclosed project budget to perform the repairs.

Recommendation: Authorize Doetsch Industrial Services (AKA Doetsch Environmental Services) to proceed with services outlined in its February 25, 2024 proposal for a not-to-exceed amount of \$349,540 based on existing as-needed services contract 009838.

Approve a project budget of \$486,008 for the Edwards Relief Maintenance Repairs Project 17416 based on the enclosed project budget estimate form.

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21221 Mullin Ave. Warren MI 48089

February 25, 2024

Geoff Wilson, PE Chief Engineer One Public Works Drive, Bldg. 95 West Waterford, MI 48328-1907

RE: Edwards Relief Drain

Mr. Wilson,

Doetsch Environmental Services will provide necessary labor, grouting equipment and supplies, based on blanket rates:

Hourly Rates		
	Straight	Overtime
Labor		
Project Manager	\$85	\$100
Equipment Operator	\$75	\$90
Confined Space Tech	\$75	\$90
Laborer	\$70	\$85
		,
	Straight	Overtime
Equipment		
Grout Truck	\$ 100.00	\$ 100.00
20KW Generator	\$ 20.00	\$ 20.00
20" Ventilation Blower	\$ 20.00	\$20.00
CCTV Equipment	\$120.00	\$120.00
Supply truck	\$ 20.00	\$ 20.00
Support vehicle	\$ 20.00	\$ 20.00
Support trailer	\$ 20.00	\$ 20.00
375 CFM Air Comp	\$ 40.00	\$40.00
High Pressure Jet Truck	\$ 135.00	\$ 135.00
Vacuum Truck	\$120.00	\$ 120.00
Robotic milling truck	\$ 175.00	\$ 175.00

Acrylamide Grout: \$97.00 per gallon for packer injection

Acrylamide Grout: \$30.00 per gallon for point injection / manual injection inside the pipe.

Scope: Grout/Chip Deposits

1) Chemical grout will be injected from inside the pipe at known leak areas or areas of previous leakage. For large leaks grout mix will be increased to an 18% grout mix. Time estimate: 100-300 gallons per day

Crew will be 1 Project manager, 1 Operator, 2 Confined Space Entry Technicians and if needed, 1 Laborer.

Equipment will be Grout truck, Blower and Generator (if required at an upstream manhole, 1-2 support vehicles + grout.

Scope: Spot/Reinf Repair

- 1) Will be cleaned, invert and if needed, rotational cleaning to remove encrustations. Equipment will be high pressure truck, vacuum truck, CCTV truck, 1 support vehicle 1 project manager, 3 operators and if needed, 1 laborer
- 2) Equipment will be air compressor, cctv truck, 1-2 support vehicles, appropriately sized packers + pipe patch, reinforcement repair materials per details. Pipe Patch 10" \$760, 12" \$820, 15" \$1,000 Crew will be 1 Project manager, 1 Operator, 2 Confined Space Entry Technicians and if needed, 1 Laborer.

Estimated Budget:

Labor, Equipment, and Materials (per above rates, excluding grout): \$241,450

Grout Budget (as agreed upon with owner): \$108,000

• Traffic control to consist of cones and signs, additional equipment will be cost + 10%

Please call with any questions or concerns 810-499-9233

Thank you for the opportunity to be of service,

Joe Schotthoefer

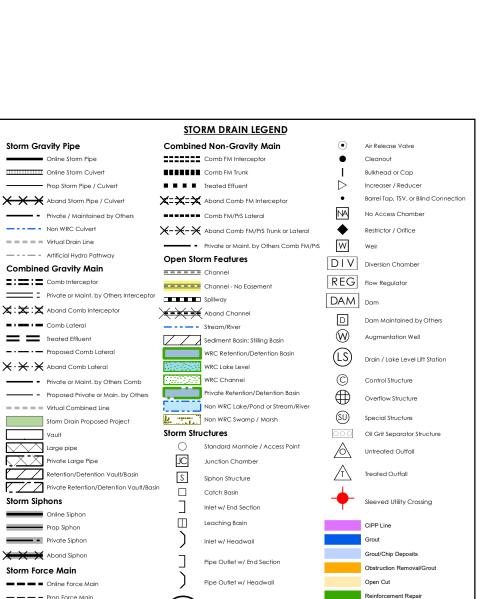
EDWARDS RELIEF MAINTENANCE REPAIRS PRJ-17416 ESTIMATE OF PROJECT COSTS REVISED: APRIL 15, 2024

	Pr	oject Costs
1) Contracted Services: Construction Cost a Constuction Cost (as-bid) b Add More if Multiple Phases/ Contracts	\$	349,540
Subtotal Construction Cost	\$	349,540
2) Engineering Consultants a Design Phase b Construction Administration c Scheduling Consultant for Large Projects d Reiforcement Repair Construction Administration e f	\$	11,000
Subtotal Engineering Consultants	\$	11,000
3) Legal & Financial		
a Easements b Legal Costs c Financial Consultant (For Bond Sale Only) TBD d Bond Counsel (Bond Issue Only) TBD e OCIP Insurance f Official Statement g Wetland Mitigation	\$	7,000
Subtotal Legal & Financial	\$	7,000
4) County Services: a Administration & General (ADM) b Engineering (ENG) c Right-Of-Way (ROW) d Construction Inspection (INS) e GIS Mapping (ADM) f Operation Staff (STD) (Shutdowns, Training New Facilities, etc.) g Survey (SUR)	\$ \$ \$ \$ \$ \$	13,982 24,468 6,991 25,350 3,495
Subtotal County Services	\$	74,286
Project Subtotal	\$	441,826
5) 10% Construction Contingency	\$	44,183
6) Less Anticipated Grant Funds		
7) Total Project Cost	\$	486,008









NW Section 27

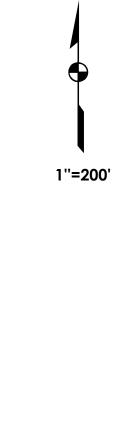
WEST BLOOMFIELD STORM DRAIN SYSTEMS Township of West Bloomfield

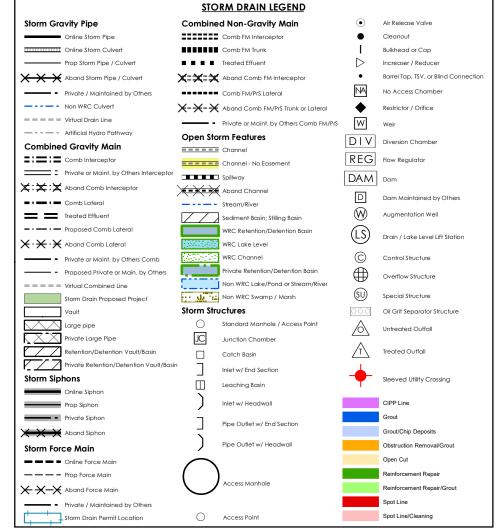
Spot Line

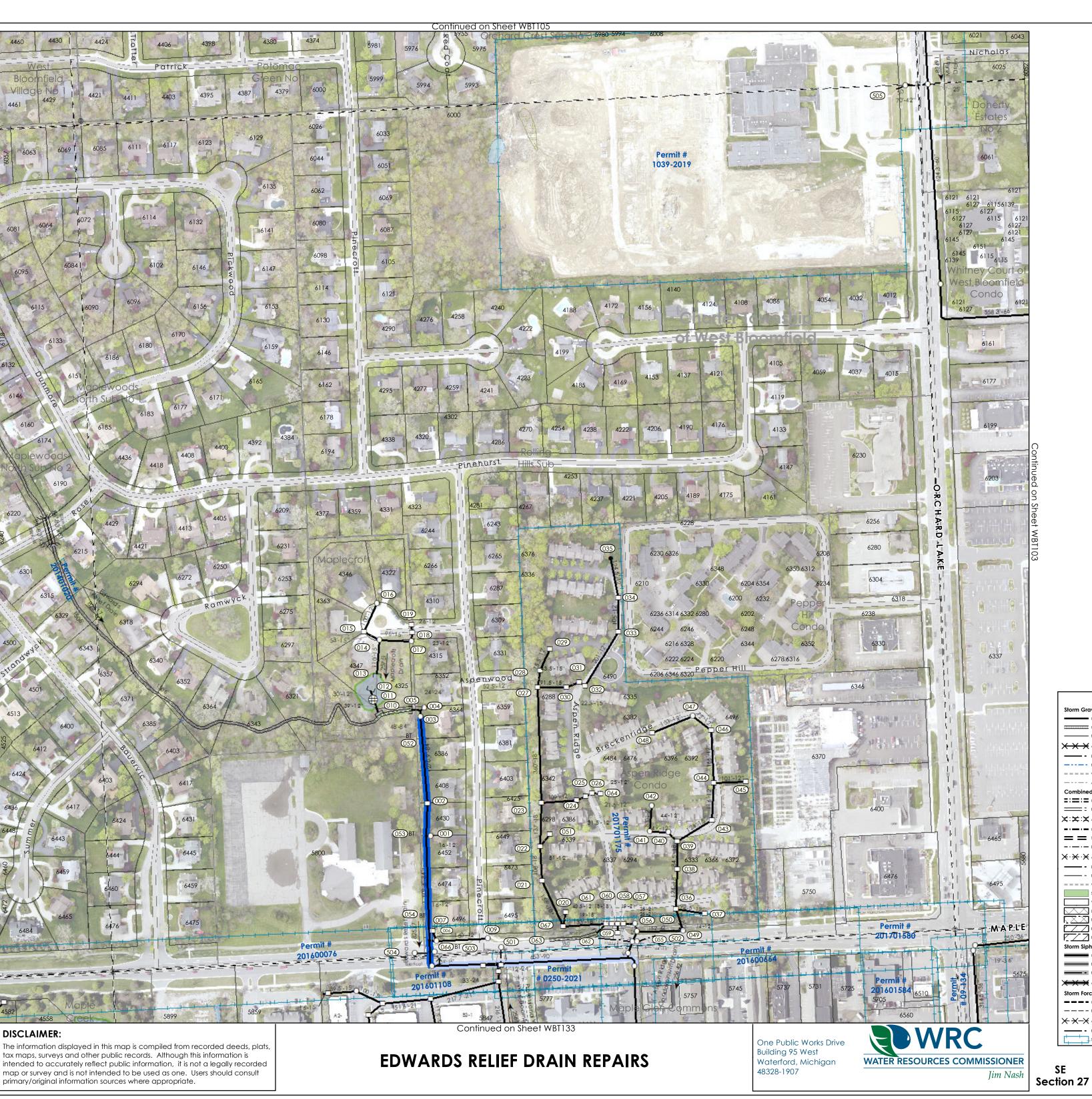
Spot Line/Cleaning

1"=200'

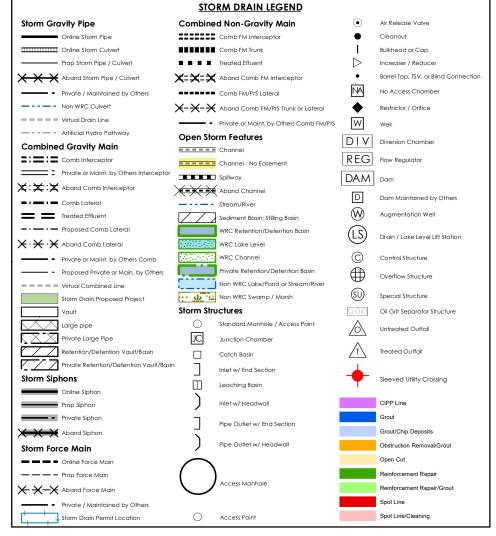


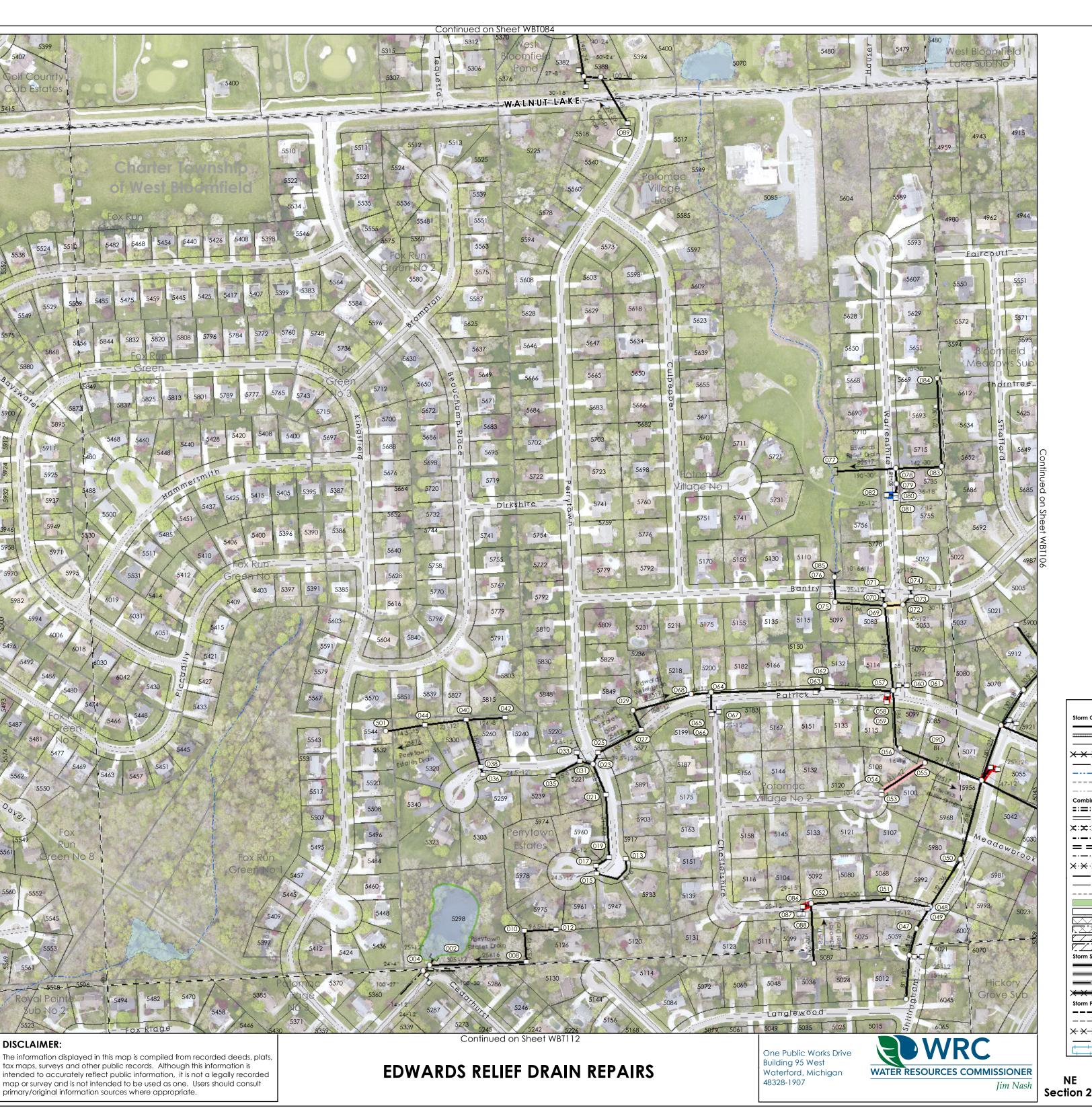




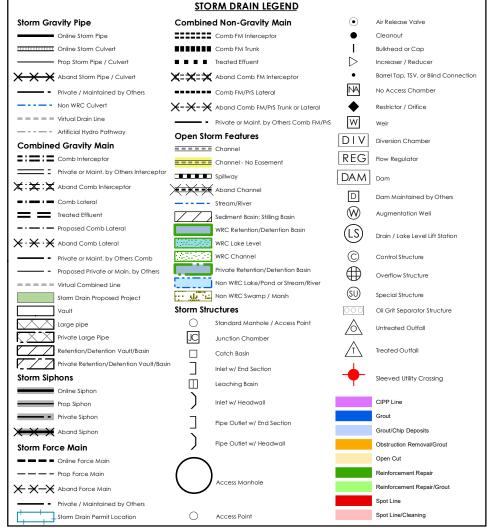




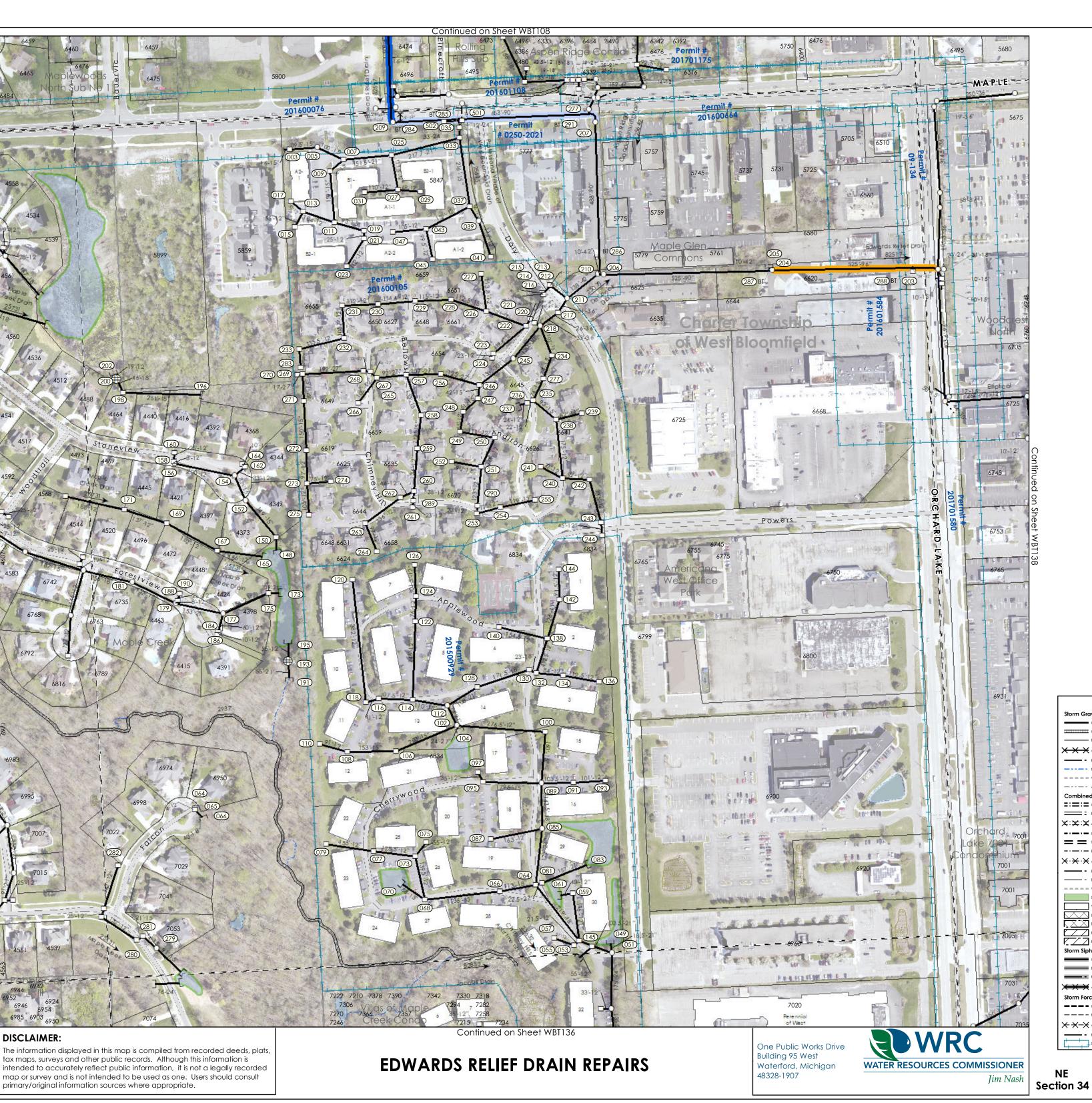




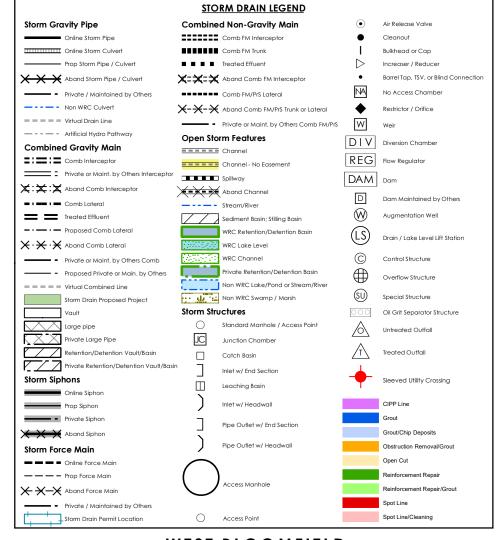


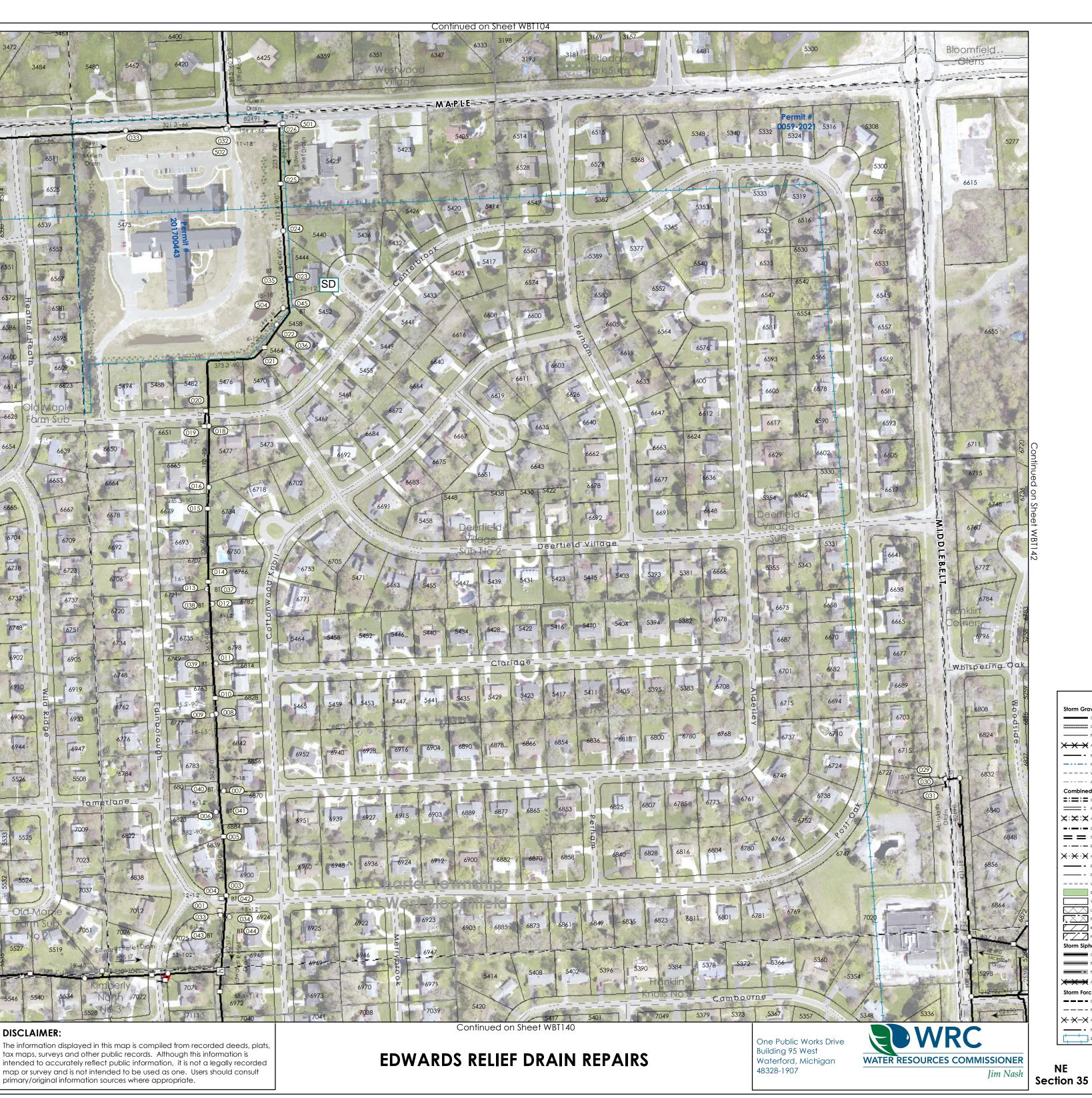


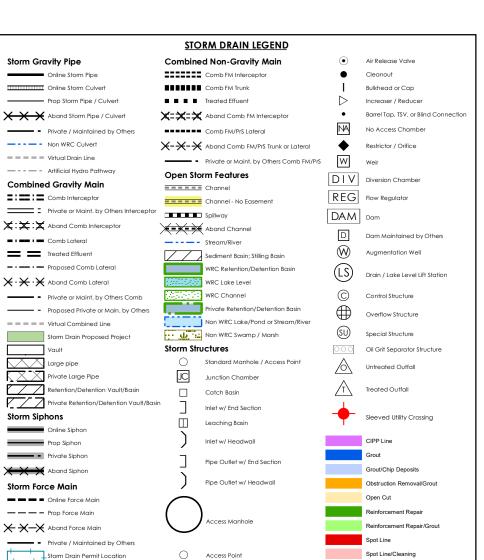
Section 28



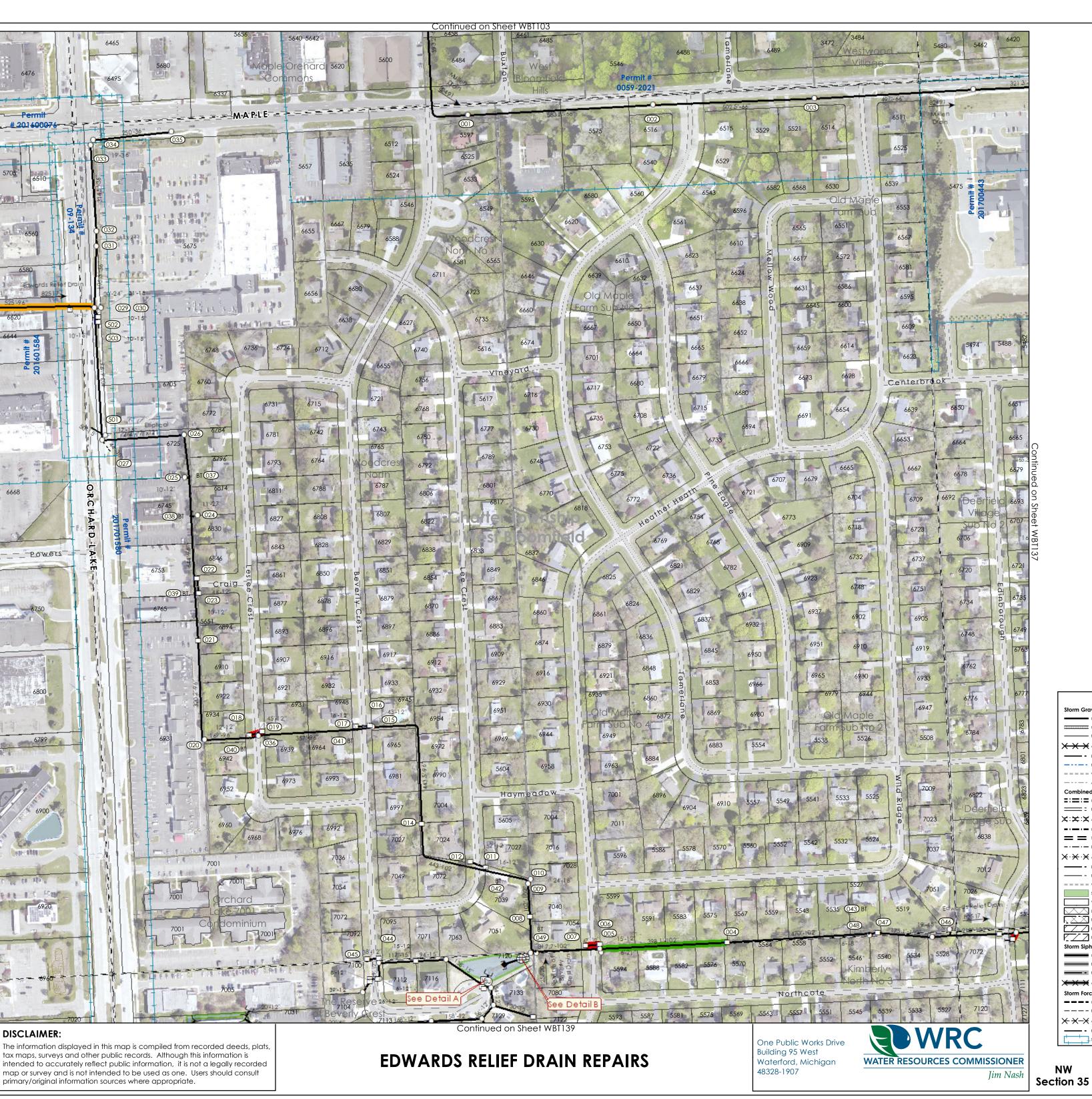




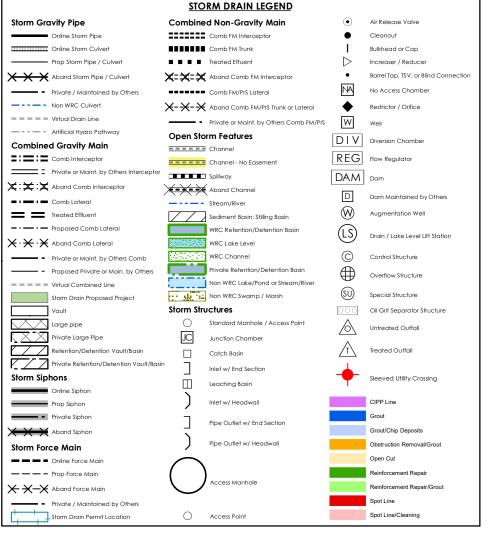


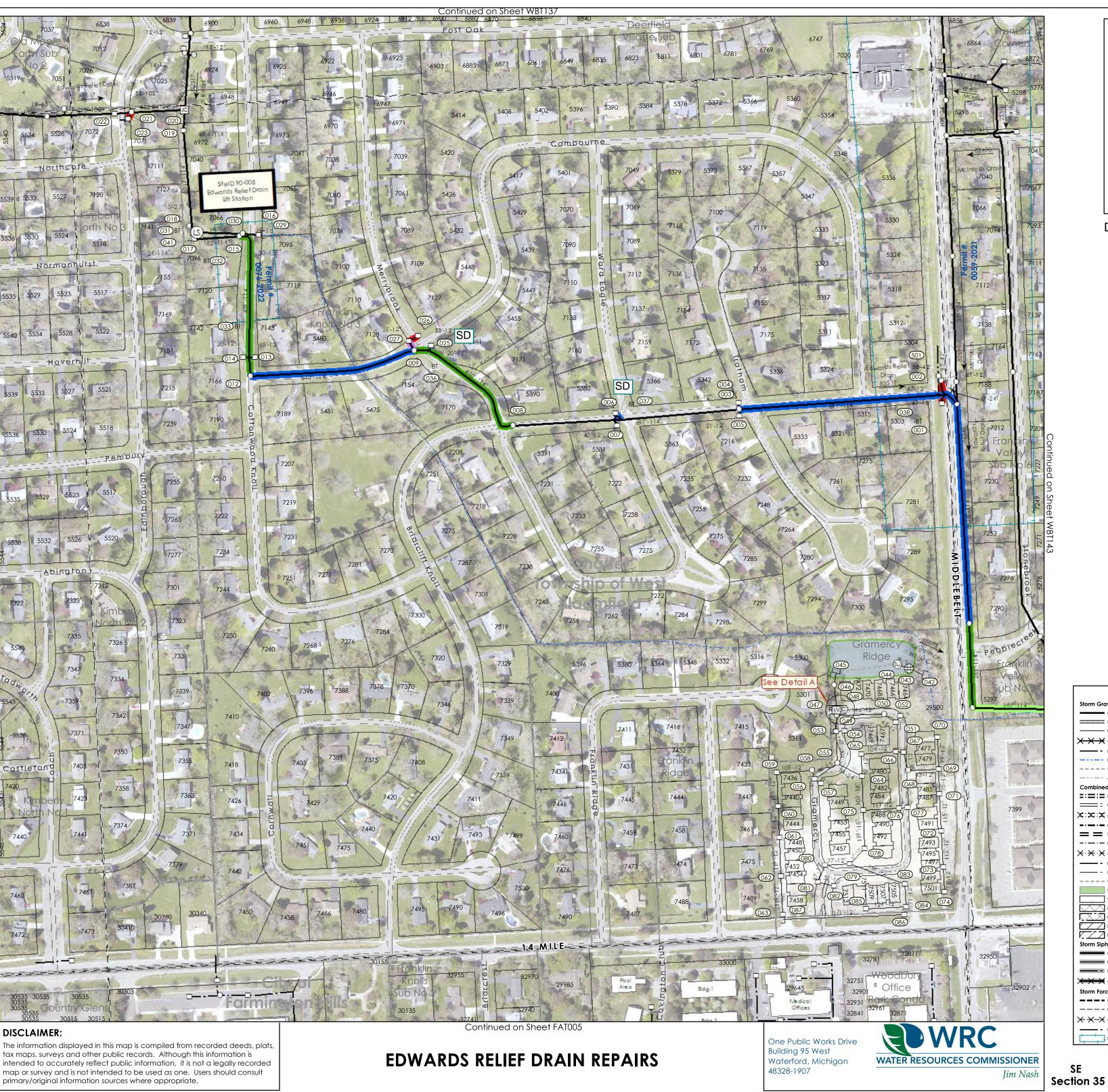


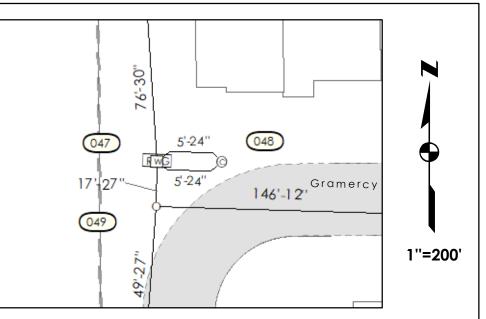
1"=200'



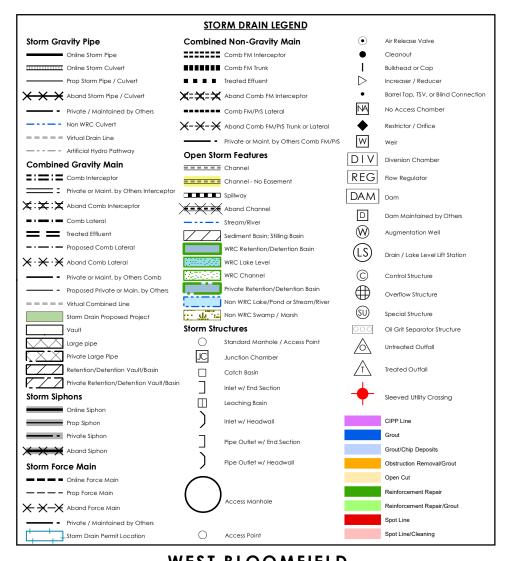




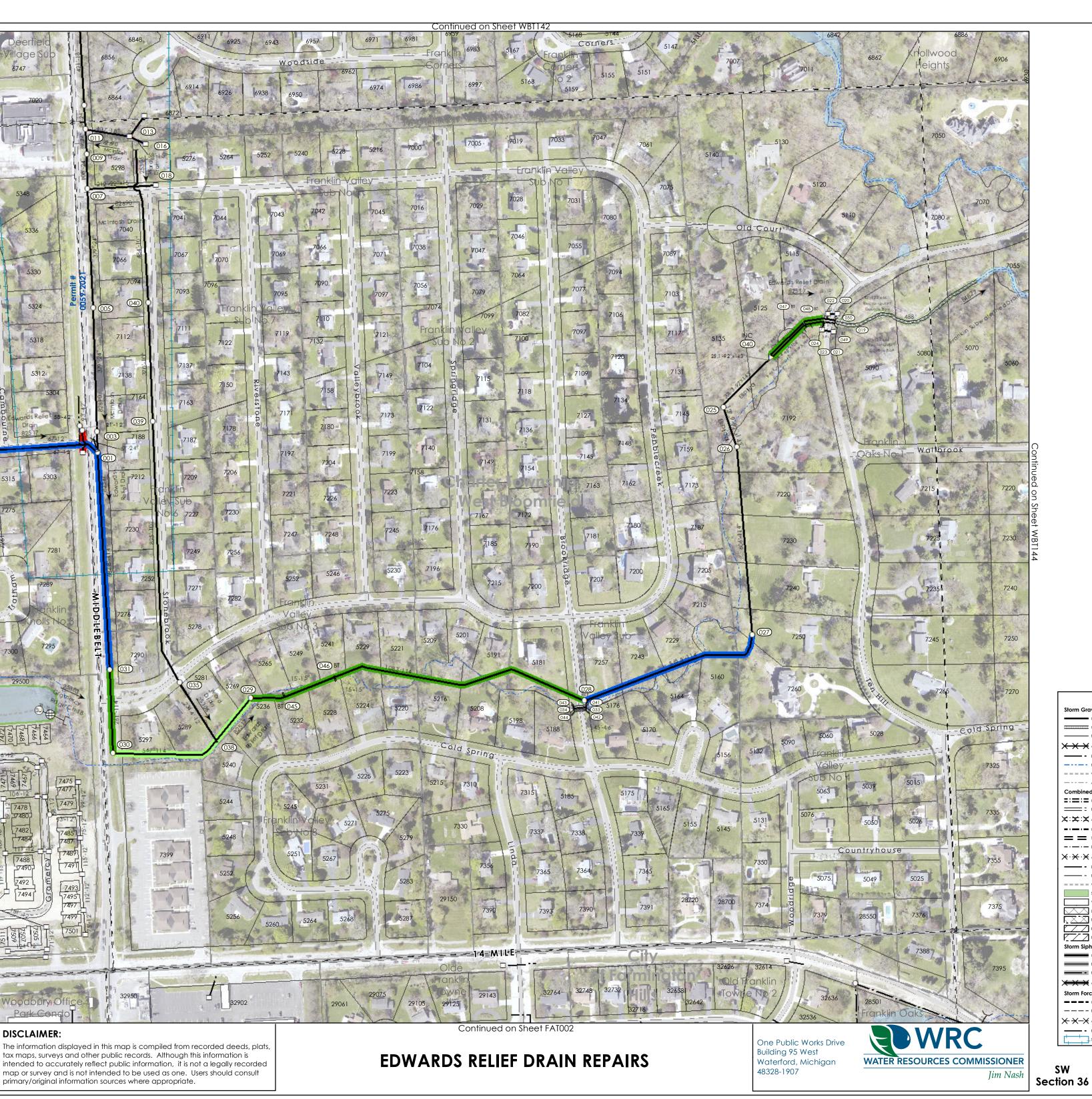




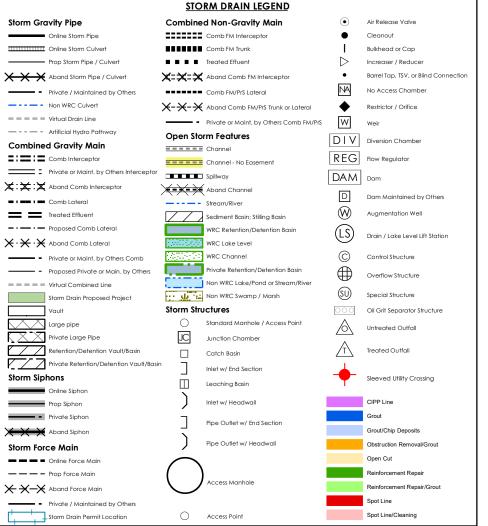
Detail A



SE ction 35







SW tion 36

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

9. Twelve Towns Relief Drain

AGENDA

DRAINAGE BOARD FOR THE TWELVE TOWNS RELIEF DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of May 22, 2018
- 3. Public Comments
- 4. Present Memorandum from Jeffrey Parrott, Supervisor, Right of Way, dated April 23, 2024, requesting the Board authorize the Chairperson to sign the Easement Use Agreement to accommodate the City of Ferndale's proposed construction of multi-use courts across the Drainage District's easement
- 5. Other business
- 6. Approve pro rata payment to Drainage Board members
- 7. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE TWELVE TOWNS RELIEF DRAIN

May 22, 2018

A meeting of the Drainage Board for the Twelve Towns Relief Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 22nd day of May, 2018.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Thomas F. Middleton, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: Michael Gingell, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held December 14, 2010 were presented for consideration. It was moved by Middleton, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2 Navs - 0

Chairperson Nash asked if there were any public comments. There were none.

A Memorandum from Jeffrey S. Parrott, Right of Way Supervisor, dated May 22, 2018 (as attached) was presented recommending the Board authorize the Chairperson to execute the attached easement document to accommodate the City of Ferndale's request for a watermain easement. It was moved by Middleton, supported by Nash, to authorize the Chairperson to execute the easement document to accommodate the City of Ferndale's request for a watermain easement.

ADOPTED: Yeas - 2 Nays - 0

It was moved by Nash, supported by Middleton, to certify attendance and authorize pro rata payment of \$25 per day to Mr. Middleton.

ADOPTED: Yeas - 2 Nays - 0

There being no further business, the meeting was adjourned.

Jim Nash Chairperson

Page 1 of 2

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Twelve Towns Relief Drain, Oakland County, Michigan, held on the 22nd day of May, 2018, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Twelve Towns Relief Drain Drainage District.

Jim Nash Chairperson

Dated: June 18, 2018

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MEMORANDUM

TO: Jim Nash, Chairperson of the Twelve Towns Relief Drains Drainage District

FROM: Jeffrey Parrott, Supervisor, Right of Way

SUBJECT: City of Ferndale, Martin Road Park Improvements – Easement Use Agreement

DATE: April 23, 2024

The City of Ferndale is proposing to construct a multi-use court including basketball and pickleball courts over and across existing easement for the Twelve Towns Relief Drains. Staff has no objection to the construction of these improvements provided there is an Easement Use Agreement between City of Ferndale and the Drainage District.

Attached is an Easement Use Agreement signed by the mayor and clerk of the City of Ferndale including the construction plans as exhibits for your review.

Requested Action: Authorize the chairperson to sign the Easement Use Agreement to accommodate the City of Ferndale's proposed construction of multi-use courts across the Twelve Towns Relief Drains easement.

Page 1 of 1 Rev.: 11/05/08

EASEMENT USE AGREEMENT

This Agreement made and entered into this ______ day of ______, 2024 ("Effective Date") by and between the CITY OF FERNDALE, a Michigan municipal corporation, whose address is 300 E. Nine Mile Road, Ferndale, MI 48220, ("City") and the TWELVE TOWNS RELIEF DRAINS DRAINAGE DISTRICT, a Michigan Statutory Corporation, acting through the Drainage Board for the TWELVE TOWNS RELIEF DRAINS ("Drain") pursuant to Chapter 20 of Act No. 40 of the Public Acts of 1956, as amended (Michigan Drain Code), (the "District"), whose address is the Office of the Oakland County Water Resources Commissioner("WRC"), One Public Works Drive, Waterford, Michigan, 48328-1907.

WITNESSETH:

WHEREAS, City is the owner of certain property as tenants by the entirety, said property being more particularly described as:

Land situated in the City of Ferndale, County of Oakland, State of Michigan described as follows:

Town 1 North, Range 11 East, Section 26, that part of the South 20 Acres of the Northeast 1/4 of the Southwest 1/4, lying South of a line running East & West and distant North 514.18 feet from and parallel with the centerline of Orchard Avenue.

Sidwell No. 25-26-326-010 Commonly Known As: Martin Road Park

WHEREAS, there are permanent easements located over said property for storm drainage purposes, said easements having been granted to the **District** as recorded in **Liber 4061**, **Pages 856 through 859**, and **Liber**

4263 Pages 636 through 639, Oakland County Records and attached as **Exhibit A**; and,

WHEREAS, City acknowledges and accepts the rights of the District in permanently maintaining control and usage of said easements; and,

WHEREAS, City desires to construct multi-use courts consisting of 6-inch diameter underdrain, geotextile fabric, 21AA aggregate base, hot mix asphalt 31A LS, hot mix asphalt 4 EML, landscaping, 6-foot-tall and 10-foot-tall chain-link fencing, galvanized fence posts spaced 10-foot apart and 3-foot six-inches deep, basketball hoop post 54-inches deep with concrete, and related appurtenances (hereinafter referred to as "Improvements") within said easement; and,

NOW, THEREFORE, in consideration of the premises and covenants and undertakings hereinafter contained, and for ONE DOLLAR (\$1.00), receipt of which is hereby acknowledged, City and District mutually agree as follows:

- Improvements within said easements as depicted in the attached site plans prepared by Giffels Webster, Project No. 19034.14, dated January 4, 2024, attached as Exhibit B, and approved by the District. Said Improvements to be used for City purposes, and shall further be subject to the following conditions:
 - a) City shall not change or modify the Improvements located within the easement without prior approval from the District.

- b) City shall notify the District 48 hours prior to construction to arrange inspection as may be necessary.
- c) City shall obtain a permit from the District for said construction, if required.
- d) City shall not change the grade within the easement to interfere with or impede the flow of surface drainage.
- e) **City** shall have the limits of the easement staked by a qualified surveyor prior to construction.
- 2) The **Improvements** and all related appurtenances shall be subject to the paramount rights of the **District**.
- Except as permitted by this agreement, the City shall not build 3) or convey to others permission to build any permanent structures in or on the easement area. As used herein, the term "permanent structures" shall include, by way of example but not limitation, buildings, additions, retaining walls or other structures which require footings or structures that impair, obstruct, or adversely affect the rights of the District under said easement. Notwithstanding anything else contained herein, in the event it becomes necessary for the District, its agents or assigns to maintain, operate, repair, clean, replace, enlarge, relocate, or otherwise improve the drainage system, and in doing so it requires the removal, disassembly, disturbance or destruction of the Improvements located within the easement, the City shall be solely responsible for any increased costs to the District and all costs associated with the restoration of said Improvements.

- 4) **City** shall indemnify the **District** against, and shall forever hold the **District** harmless from, any and all losses, liability, actions, claims, demands, costs, expenses, injuries, or damages of any kind whatsoever which may be brought or made which shall be caused by or arise out of any use of the easement by **City** in construction, repair or replacement of the improvements.
 - 5) City shall acknowledge and further hold harmless the District for any and all costs and expenses incurred in and arising out of any use of the easement for any of the purposes legally allowed arising out of the existence of said easement caused by the City, its employees or contractors.
 - 6) **City** shall be responsible for any damage to **District's** facility due to construction or future use of the **Improvements**.
 - 7) Prior to the Effective Date of this agreement and continuing for the duration of construction of the Improvements, City shall obtain and maintain General Liability Insurance with minimum limits of \$500,000.00 per occurrence and \$500,000.00 dollars aggregate protecting District from any and all claims arising from construction of the Improvements. City shall provide proof of insurance showing District as an additional named insured prior to construction.
 - 8) **City** and/or its contractor shall be responsible for and obtain any permits, approvals or clearances as may be required from federal, state, or local authorities, the public utilities and private property owners.
 - 9) The terms, conditions, covenants, and other provisions contained in this Agreement shall run with the land and be binding upon and inure to the benefit of each of the parties hereto and their respective agents, successors, and assigns;

further, this instrument shall be recorded in the Register of Deeds Office, Oakland County, Michigan, as a condition precedent to effectuation of the Agreement.

(Remainer of this page intentionally left blank)

8 day of April ,A.	.D., 2024.
municipal	FERNDALE, a Michigan corporation On Leaks-May Or Lent
ACKNOWLEDGE	<u>MENT</u>
STATE OF MICHIGAN))SS: COUNTY OF OAKLAND)	
On this day of Public in and for said County, personally appeare and Dean Lent, Clerk of the City of Fern Corporation, to me known to be the same persons this instrument on behalf of Michigan Municipal City Council, and the Mayor and Clerk acknowled free act and deed of the Michigan Municipal Corporation.	d Raylon Leaks-May, Mayor dale, a Michigan Municipal described in and who executed Corporation by authority of its edged this instrument to be the
My Co	Notary Public Notary Public County, Spretty n Oakh Commission Expires: 10/02/2027 Gin County of: 04KLAD
	Philip D. Whitfield NOTARY PUBLIC - STATE OF MICHIGAN COUNTY of WAYNE My Commission Expires October 12, 2027 Acting in the County of

IN WITNESS WHEREOF, the City has hereunto affixed their signatures this

this	day of	A.D., 2024 .
		TWELVE TOWNS RELIEF DRAINS DRAINAGE DISTRICT, a Michigan Statutory Corporation, acting through the Twelve Towns Relief Drains Drainage Board
		By: Jim Nash, Oakland County Water Resources Commissioner
		Its: Chairperson
	F MICHIGAN))SS: OF OAKLAND)	CKNOWLEDGEMENT
personally Drainage	appeared Jim Nash , C Board , known to me	, 2024, before me a Notary Public, hairperson of the Twelve Towns Relief Drains e to be the person who executed the within d the same to be their free act and deed.
		, Notary Public County, My Commission Expires: Acting in County of:

This instrument drafted by:

Jeffrey S. Parrott, Supervisor Right of Way Office of the Oakland County Water Resources Commissioner Building 95 West One Public Works Drive Waterford, Michigan 48328-1907

EXHIBIT A

RIGHT OF WAY

KNOW ALL MEN BY THESE PPESENTS, that the City of Ferndale, Oakland County, Michigan, a Municipal Corporation, party of the first part, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations paid to it by the County of Oakland, Michigan, acting through the Drainage Board for the Twelve Towns Relief Drains, under Chapter 20 of Act No. 40 of the Public Acts of 1956, as amended, party of the second part, whose address is No. 550 South Telegraph Read, Pontiac, Michigan, does hereby grant to the said party of the second part the right to construct, operate, maintain, repair and/or replace a portion of the Twelve Towns Relief Drains across and through the following described land situated in the City of Ferndale, Oakland County, Michigan, to-wit:

Easements through the following described parcel of land owned by the City of Ferndale and known as "Martin Road Park", in Section 26, TlN, RllE, City of Ferndale, Oakland County, Michigan:

South 5 acres of the E 10.08 acres of the NE 1/4 of the SW 1/4; south 5 acres of the W 10.08 acres of the E 20.16 acres of the NE 1/4 of the SW 1/4; south 5 acres of the W 10.08 acres of the E 30.24 acres of the NE 1/4 of the SW 1/4,

the description of which easements is as follows:

(A) A construction easement of 50 feet width and a maintenance easement of 35 feet width, the mutual centerline of which easements commences at a point on the north line of said parcel of land located approximately 118.41 feet west of the west line of Martin Road; thence S 0° 42' W 3.74 feet to a point; thence on a curve to the right delta 65° 15' 15", radius 100.00 feet, arc 113.89 feet, tangent 64.01 feet, a distance of 113.89 feet to a point; thence S 65° 57' W a distance of 67.50 feet.

A construction easement of 50 feet width and a maintenance easement of 22 feet width, the mutual centerline of which easements commences at a point N 24° 03' W 15.75 feet from the westerly end of easement (A); thence S 65° 57' W a distance of 905.14 feet to a point on the west line of said parcel of land located 205 feet north of the south line of Orchard Avenue.

(C) A construction easement of 50 feet width and a maintenance easement of 20 feet width, the mutual centerline of which easements commences at a point on the south line of said parcel of land located 12 feet east of the west line of Wrenson avenue extended northerly; thence northerly and parallel with said extended west line of Wrenson Avenue 455.50 feet to a point;

Colors Jang Sand

OAKLAND COUNT GICHIGAN REGISTER OF DEFU. GECORDS

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thence on a curve to the right delta 65° 30', radius 70 feet, arc 80.02 feet, tangent 45.02 feet, a distance of 80.02 feet to point located S 24° 03' E 9.0 feet from the westerly end of the centerline of easement (A).

If the said premises shall be disturbed by reason of the exercise of any of the foregoing powers, then said premises shall be restored to its original condition by the party of the second part.

The Drainage Board shall be responsible for the removal of or injury to any trees within the boundaries of the previously described property known as Martin Road Park.

This instrument shall be binding upon and inure to the benefit of the parties hereto, their heirs, representatives, successors and assigns.

IN WITNESS WHEREOF, the party of the first part has caused its signature to be affixed hereto by its duly authorized officers this 19th day of January , A. D. 19 60.

In presence of

Minnie M. Widman

Carolyn Anderson

CITY OF FERNDALE

Bruce D. Garbutt
Its Mayor

Lawrence P. Kress
Lawrence P. Kress
Its City Clerk

(Seal)

STATE OF MICHIGAN)
COUNTY OF OAKLAND)

On this 19th day of January , 1960, before me personally appeared Bruce D. Garbutt and Lawrence P. Kress, to me personally known, who being by me duly sworn, did each for himself say that they are respectively the Mayor and City Clerk of the municipal corporation named in and which executed the within instrument, and that the seal affixed to said instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its City Commission; and said Bruce D. Garbutt and Lawrence P. Kress acknowledged said instrument to be the free act and deed of said corporation.

Notary Fublic, Oakland County, Michigan

My commission expires: 3/10/62

1/1/10

At a regular meeting of the City Commission of the City of Ferndale, Oakland County, Michigan, held in the city hall in said city on the <a href="https://linearchy.com/li

PRESENT: Commissioners O'Donnell, O'Donoghue, Schiffer, Vickers; Mayor Garbutt.

ABSENT: None.

The City Clerk presented the proposed right-of-way agreement referred to in the following resolution.

The following resolution was offered by Commissioner O'Donnell and seconded by Commissioner Vickers :

BE IT RESCLVED, that the Mayor and City Clerk of the City of Ferndale, Michigan, be and they are hereby authorized and directed to execute and deliver, for and on behalf of the city, the right-of-way agreement granting to the County of Oakland, Michigan, acting through the Drainage Board for the Twelve Towns Relief Drains, under the provisions of Chapter 20 of Act No. 40 of the Public Acts of 1956, as amended, the right to construct, use, maintain, repair and/or replace a part of the Twelve Towns Relief Drains and appurtenances across and through the following described lands in said city, to-wit:

Easements through the following described parcel of land owned by the City of Ferndale and known as "Martin Road Park", in Section 26, TlN, RILE, City of Ferndale, Oakland County, Michigan:

South 5 acres of the E 10.08 acres of the NE 1/4 of the SW 1/4; south 5 acres of the W 10.08 acres of the E 20.16 acres of the NE 1/4 of the SW 1/4; south 5 acres of the W 10.08 acres of the E 30.24 acres of the NE 1/4 of the SW 1/4,

the description of which easements is as follows:

- (A) A construction easement of 50 feet width and a maintenance easement of 35 feet width, the mutual centerline of which easements commences at a point on the north line of said parcel of land located approximately 118.41 feet west of the west line of Martin Road; thence S 0° 42° W 3.74 feet to a point; thence on a curve to the right delta 65° 15° 15°, radius 100.00 feet, arc 113.89 feet, tangent 64.01 feet, a distance of 113.89 feet to a point; thence 8 65° 57° W a distance of 67.50 feet.
- (B) A construction essement of 50 feet width and a maintenance easement of 22 feet width, the mutual centerline of which easements commences at a point N 24° 03° W 15.75 feet from the westerly end of easement (A); thence S 65° 57° W a distance of 905.14 feet to a point on the west line of said parcel of land located 205 feet north of the south line of Orchard Avenue.

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(C) A construction easement of 50 feet width and a maintenance easement of 20 feet width, the mutual centerline of which easements commences at a point on the south line of said parcel of land located 12 feet east of the west line of Wrenson Avenue extended northerly; thence northerly and parallel with said extended west line of Wrenson Avenue 455.50 feet to a point; thence on a curve to the right delta 65° 30°, radius 70 feet, arc 80.02 feet, tangent 45.02 feet, a distance of 80.02 feet to point located S 24° 03° E 9.0 feet from the westerly end of the centerline of Easement (A).

ADOPTED: Yeas Commissioners O'Donnell, O'Donoghue, Schiffer, Vickers; Mayor Garbutt.

Mays None.

STATE OF MICHIGAN)

COUNTY OF OAKLAND)

I, the undersigned, the duly qualified and acting Clerk of the City of Ferndale, Oakland County, Michigan, do hereby certify that the foregoing is a true and complete copy of a resolution adopted by the City Commission of said city at the meeting above indicated, the original of which is on file in my office.

IN WITNESS WHEREOF, I have hereunto affixed my official signature this 19th day of January , A. D. 19 60.

Lawrence P. Kress, City Clerk

(City Seal)

17/4

RIGHT OF WAY

KNOW ALL MEN BY THESE PRESENTS, that the Board of Education of the School District of the City of Hazel Park, Hazel Park, Oakland County, Michigan, a Public Corporation, party of the first part, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations paid to it by the County of Oakland, Michigan, acting through the Drainage Board for the Twelve Towns Relief Drains, under Chapter 20 of Act No. 40 of the Public Acts of 1956, as amended, party of the second part, whose address is No. 550 South Telegraph Road, Pontiac, Michigan, does hereby grant to the said party of the second part the right to construct, operate, maintain, repair and/or replace a portion of the Twelve Towns Relief Drains across and through the following described land situated in the City of Ferndale, Oakland County, Michigan, to-wit:

Easements through the following described parcel of land owned by the City of Ferndale and known as "Martin Road Park," in Section 26, T1N, R11E, City of Ferndale, Oakland County, Michigan:

South 5 acres of the E 10.08 acres of the NE 1/4 of the SW 1/4; south 5 acres of the W 10.08 acres of the E 20.16 acres of the NE 1/4 of the SW 1/4; south 5 acres of the W 10.08 acres of the E 30.24 acres of the NE 1/4 of the SW 1/4,

the description of which easements is as follows:

- (A) A construction easement of 50 feet width and a maintenance easement of 35 feet width, the mutual centerline of which easements commences at a point on the north line of said parcel of land located approximately 118.41 feet west of the west line of Martin Road; thence S 0° 42° W 3.74 feet to a point; thence on a curve to the right delta 65° 15° 15°, radius 100.00 feet, arc 113.89 feet, tangent 64.01 feet, a distance of 113.89 feet to a point; thence S 65° 57° W a distance of 67.50 feet.
- (B) A construction easement of 50 feet width and a maintenance easement of 22 feet width, the mutual centerline of which easements commences at a point N 24° 03' W 15.75 feet from the westerly end of easement (A); thence S 65° 57' W a distance of 905.14 feet to a point on the west line of said parcel of land located 205 feet north of the south line of Orchard Avenue.
- (C) A construction easement of 50 feet width and a maintenance easement of 20 feet width, the mutual centerline of which easements commences at a point on the south line of said parcel of land located 12 feet east of the west line of Wrenson Avenue extended northerly; thence northerly and parallel with said extended west line of Wrenson Avenue 455.50 feet to a point;

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thence on a curve to the right delta 65° 30°, radius 70 feet, arc 80.02 feet, tangent 45.02 feet, a distance of 80.02 feet to point located S 24° 03° E 9.0 feet from the westerly end of the centerline of easement (A).

If the said premises shall be disturbed by reason of the exercise of any of the foregoing powers, then said premises shall be restored to its original condition by the party of the second part.

The Drainage Board shall be responsible for the removal of or injury to any trees within the boundaries of the previously described property known as Martin Road Park.

This instrument shall be binding upon and inure to the benefit of the parties hereto, their heirs, representatives, successors and assigns.

IN WITNESS WHEREOF, the party of the first part has caused its signature to be affixed hereto by its duly authorized officers this 15 day of A. D. 19661.

In presence of Milfred Webb	By Harold F. Neher Its President
Patrice Zuick	By Carl & Bowers Carl J. Bowers
Patričia Quick	i⊮s Secretary (Seal)
STATE OF MICHIGAN) COUNTY OF OAKLAND)	
respectively the President and Secretard which executed the within instruments instrument is the corporate seal of was signed and sealed in behalf of sealed of Education; and said	de la
	Notary Public, Oakland County, Michigan

My commission expires:

E. PAUL FRAMPTON Notary Public, Macomb County, Mich. Acting in Oakland County My Commission Expires Jan. 16, 1965 At a regular meeting of the Board of Education of the School District of the City of Hazel Park, Hazel Park, Oakland County, Michigan, held in the Board of Education Offices in said city on the 15 day of August, 1961, at 7:42 P.M. o'clock P.M., Eastern Standard Time.

PRESENT: Hitchcock, Lilly, Bowers, Kettlewell

ABSENT Armour, Neher, Scott

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The Secretary presented the proposed right-of-way agreement referred to in the following resolution.

The following resolution was offered by Mr. Lilly and seconded by Mr. Hitchcock

BE IT RESOLVED, that the President and Secretary of the Board of Education of the School District of the City of Hazel Park be and they are hereby authorized and directed to execute and deliver, for and on behalf of the school district, the right-of-way agreement granting to the County of Oakland, Michigan, acting through the Drainage Board for the Twelve Towns Relief Drains, under the provisions of Chapter 20 of Act No. 40 of the Public Acts of 1956, as amended, the right to construct, use, maintain, repair and/or replace a part of the Twelve Towns Relief Drains and appurtenances across and through the following described lands in the City of Ferndale, to-wit:

Easements through the following described parcel of land owned by the City of Ferndale and known as "Martin Road Park," in Section 26, T1N, R11E, City of Ferndale, Oakland, County, Michigan:

South 5 acres of the E 10.08 acres of the ME $1/\mu$ of the SW $1/\mu$; south 5 acres of the W 10.08 acres of the E 20.16 acres of the NE $1/\mu$ of the SW $1/\mu$; south 5 acres of the W 10.08 acres of the E 30.24, acres of the NE $1/\mu$ of the SW $1/\mu$,

the description of which easements is as follows:

- (A) A construction easement of 50 feet width and a maintenance easement of 35 feet width, the mutual centerline of which easements commences at a point on the north line of said parcel of land located approximately 118.41 feet west of the west line of Martin Road; thence S 0° 42' W 3.74 feet to a point; thence on a curve to the right delta 65° 15' 15", radius 100.00 feet, arc 113.89 feet, tangent 64.01 feet, a distance of 113.89 feet to a point; thence S 65° 57' W a distance of 67.50 feet.
- (B) A construction easement of 50 feet width and a maintenance easement of 22 feet width, the mutual centerline of which easements commences at a point N 240 03 W 15.75 feet from the westerly end of easement (A); thence S 650 57 W a distance of 905.14 feet to a point on the west line of said parcel of land located 205 feet north of the south line of Orchard Avenue.

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(C) A construction easement of 50 feet width and a maintenance easement of 20 feet width, the mutual centerline of which easements commences at a point on the south line of said parcel of land located 12 feet east of the west line of Wrenson Avenue extended northerly; thence northerly and parallel with said extended west line of Wrenson Avenue 455.50 feet to a point; thence on a curve to the right delta 65° 30°, radius 70 feet, arc 80.02 feet, tangent 45.02 feet, a distance of 80.02 feet to point located S 24° 03° E 9.0 feet from the westerly end of the centerline of Easement (A).

ADOPTED: Yeas

Lilly, Hitchcock, Bowers, Kettlewell

Nays

None

Absent: Armour, Neher, Scott

STATE OF MICHIGAN)

\$5

COUNTY OF CAKLAND)

I, the undersigned, the duly qualified and acting Secretary of the Board of Education of the School District of the City of Hazel Park, Hazel Park, Oakland County, Michigan, do hereby certify that the foregoing is a true and complete copy of a resolution adopted by the said Board of Education at the meeting above indicated, the original of which is on file in my office.

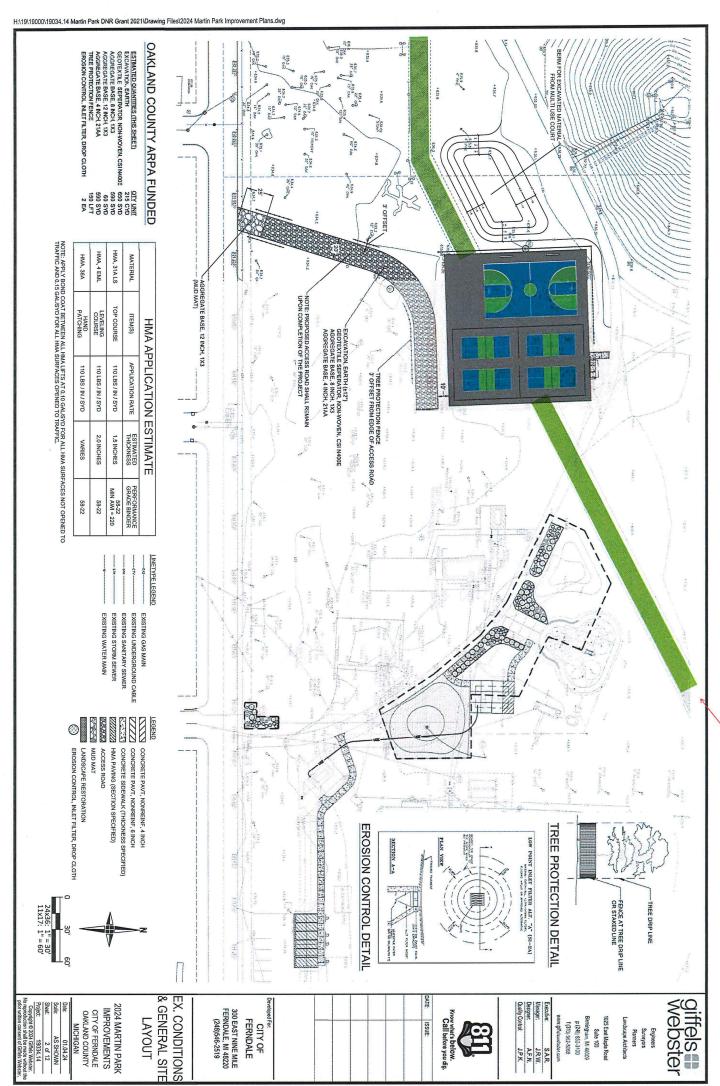
IN WITNESS WHEREOF, I have hereunto affixed my official signature this 15 day of August , A. D. 196 1 ...

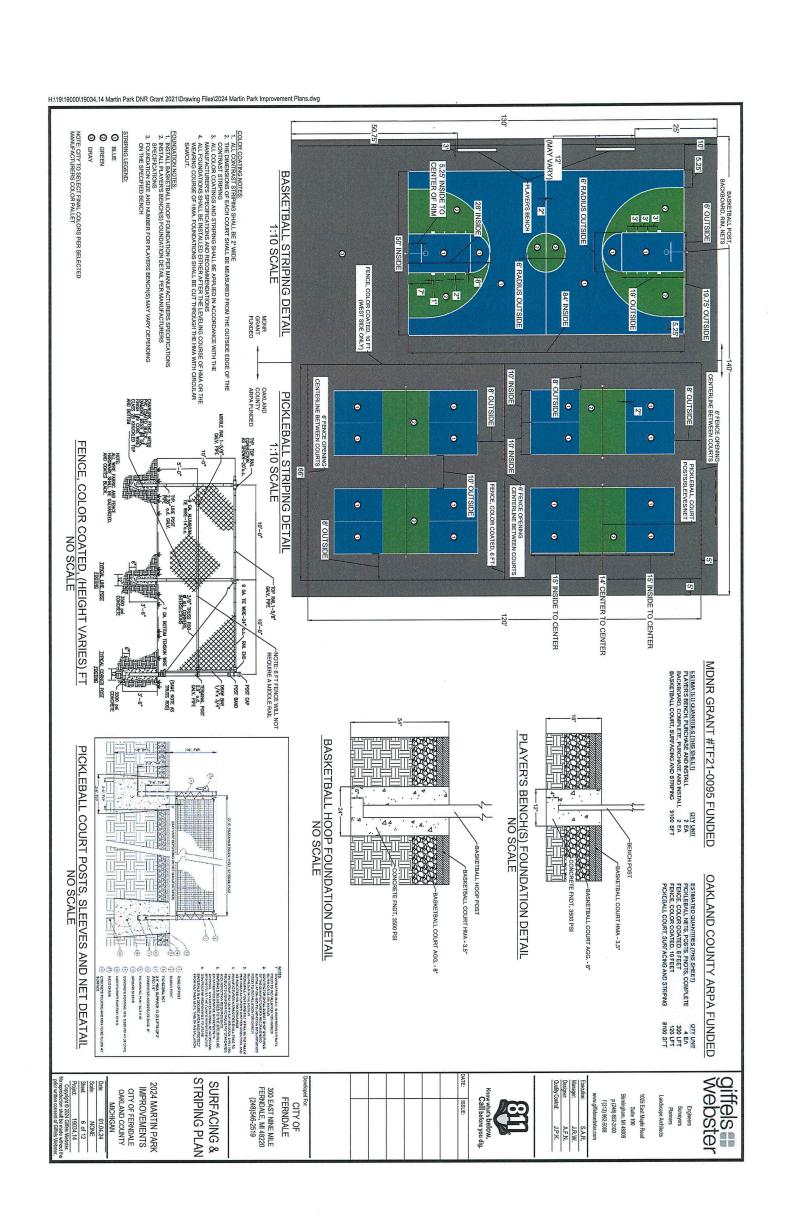
Secretary

Bowles 1

Seal

EXHIBIT B





Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

10. Nichols Drain

AGENDA

DRAINAGE BOARD FOR THE NICHOLS RELIEF DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of September 27, 2022
- 3. Public Comments
- 4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$79,589
- 5. Other business
- 6. Approve pro rata payment to Drainage Board members
- 7. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE NICHOLS RELIEF DRAIN

September 27, 2022

A meeting of the Drainage Board for the Nichols Relief Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 27th day of September 2022.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

David Woodward, Chairperson of the Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held July 27, 2021, were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3 Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A memorandum Geoff Wilson, P.E., Assistant Chief Engineer, dated September 27, 2022, requesting the Board to authorize Pipeline Management to proceed with services outlined in the proposal dated September 10, 2022, though their existing as-needed services contract with a not-to-exceed budget of \$40,000 was presented. It was moved by Markham, supported by Woodward, to authorize Pipeline Management to proceed with services outlined in the proposal dated September 10, 2022, though their existing as-needed services contract with a not-to-exceed budget of \$40,000 as presented.

ADOPTED: Yeas - 3 Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3 Nays - 0

There being no further business, the meeting was adjourned.

Him Trans

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Nichols Relief Drain, Oakland County, Michigan, held on the 27th day of September 2022, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Nichols Relief Drain Drainage District.

Jim Nash, Chairperson

Dated: September 27, 2022

OAKLAND COUNTY WATER RESOURCES COMMISSIONER MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE <u>Nichols Relief Drain</u>

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2024 through 2026

	Date last assessment approved: Last Assessment: Current Available Cash*:	11/17/20	\$173,009 (\$6,989)	
	Expenditure History:	Fiscal Year	Amount	
		2017 2018 2019 2020 2021	\$9,256 \$9,798 \$30,953 \$27,549 \$66,486	
		2022 2023	\$23,962 \$30,334	
	Estimated Expenditures:	Year	Amount	
	-	2024 2025 2026 Total	\$24,200 \$24,200 \$24,200 \$72,600	
	Recommended Assessment:			
	Current Cash Deficit Total Anticipated Expenses 2024 - 2026		\$6,989 \$72,600	
	TOTAL RECOMMENDED ASSESSMENT		\$79,589	
Prepared by:	Andrea Craft Andrea Craft - Engineering Systems Coordinator			Date: 04/11/2024
Approved by:	Geoff Wilson, P.E Chief Engineer			Date:
Approved by:	-			Date:
	Gary Nigro, P.E Manager			

Note: Current Available Cash as of February 29, 2024, Fiscal Services Division Report.

*(Less \$40,000 previously collected for special maintenance expenses, but not yet spent)

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE NICHOLS RELIEF DRAIN

Public Corporation	*Percentage of Apportionment	tal Amount Assessment	Payment #1	Payment #2	 Payment #3	_
Charter Township of Bloomfield	69.6936%	\$ 55,468.44	\$ 55,468.44	-	-	
County of Oakland, on account of drainage to county highways	27.4046%	\$ 21,811.05	\$ 21,811.05	-	-	
State of Michigan	2.9018%	\$ 2,309.51	\$ 2,309.51	-	-	
Total =	100.000%	\$ 79,589.00	\$ 79,589.00	\$ -	\$ -	_

^{*}Apportionment based on Final Order of Apportionment dated 12/15/1967.

Assessment Payment Due Date(s): Payment #1 05/31/2024

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Nichols Relief Drain for the fiscal years 2024- 2026 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.
Jim Nash Chairman of the Drainage Board for the Nichols Relief Drain
The foregoing Special Assessment Roll for the maintenance of the Nichols Relief Drain was approved by the Drainage Board on

Jim Nash

Chairman of the Drainage Board for the Nichols Relief Drain

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

11. Robert A. Reid Drain

AGENDA

DRAINAGE BOARD FOR THE ROBERT A. REID DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of April 28, 2020
- 3. Public Comments
- 4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$24,486
- 5. Other business
- 6. Approve pro rata payment to Drainage Board members
- 7. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE ROBERT A. REID DRAIN

April 28, 2020

A meeting of the Drainage Board for the Robert A. Reid Drain was held at 2:00 p.m. on the 28th day of April, 2020. The meeting was conducted via GoToMeeting in accordance with the Governor's Executive Order 2020-48 due to the ongoing COVID-19 pandemic. Commissioner Nash read a brief statement regarding the current health crisis and its impact on the Chapter 20 meetings, which can be found in its entirety under "Drainage District Policy".

The meeting was called to order by the Chairperson.

PRESENT:

Jim Nash, Oakland County Water Resources Commissioner

Helaine Zack, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT:

David Woodward, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held February 25, 2020 were presented for consideration. It was moved by Zack, supported by Nash, that the minutes be approved.

ADOPTED:

Yeas

Nays -

Chairperson Nash asked if there were any public comments. There were none.

A request for reimbursement of the Drain Revolving Fund in the amount of \$9,068.13 (as attached) was presented. It was moved by Zack, supported by Nash, to reimburse the Drain Revolving Fund in the amount of \$9,068.13.

ADOPTED:

Yeas

Nays

0

It was moved by Nash, supported by Zack, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Zack.

ADOPTED:

Yeas

2

Nays

0

There being no further business, the meeting was adjourned.

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Robert A. Reid Drain, Oakland County, Michigan, held on the 28th day of April, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Robert A. Reid Drain Drainage District.

Jim Nash, Chairperson

Dated: May _____, 2020

OAKLAND COUNTY WATER RESOURCES COMMISSIONER MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE <u>Robert A. Reid Drain</u>

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2024 through 2026

	Date last assessment approved: Last Assessment: Current Available Cash:	02/25/20	\$41,926 (\$4,086)	
	Expenditure History:	Fiscal Year	Amount	
		2017	\$10,198	
		2018	\$11,897	
		2019	\$1,744	
		2020	\$21,295	
		2021	\$2,258	
		2022	\$3,827	
		2023	\$2,696	
	Estimated Expenditures:	Year	Amount	
		2024	\$6,800	
		2025	\$6,800	
		2026	\$6,800	
	-	Total	\$20,400	
<u>R</u>	ecommended Assessment:			
	Current Cash Deficit		\$4,086	
	Total Anticipated Expenses 2024 - 2026		\$20,400	
T	OTAL RECOMMENDED ASSESSMENT		\$24,486	
epared by:	Andrea Craft			Date: 04/11/2024
A:	ndrea Craft - Engineering Systems Coordinator		_	
proved by:				Date:
G	eoff Wilson, P.E Chief Engineer			-
proved by:				Date:
	ary Nigro, P.E Manager			

Note: Current Available Cash as of February 29, 2024, Fiscal Services Division Report.

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE ROBERT A. REID DRAIN

Public Corporation	*Percentage of Apportionment	Assessment	Payment #1	Payment #2	Payment #3
Charter Township of Bloomfield	62.4800%	\$ 15,298.85	\$ 15,298.85	-	-
County of Oakland, on account of drainage to county highways	37.5200%	\$ 9,187.15	\$ 9,187.15	-	-
Total	100.000%	\$ 24,486.00	\$ 24,486.00	S -	\$ -

^{*}Apportionment based on Final Order of Apportionment dated 12/17/1996.

Assessment Payment Due Date(s): Payment #1 05/31/2024

Chairman of the Drainage Board for the Robert A. Reid Drain

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the
Robert A. Reid Drain for the fiscal years 2024-2026 in accordance with the direction of the Drainage Board
and the statutory provisions applicable thereto.

Jim Nash

The foregoing Special Assessment Roll for the maintenance of the Robert A. Reid Drain was approved by the Drainage Board on _______.

Jim Nash Chairman of the Drainage Board for the Robert A. Reid Drain

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

12. Blue Heron Drain

AGENDA

DRAINAGE BOARD FOR BLUE HERON DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of June 22, 2021
- 3. Public Comments
- 4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$5,400
- 5. Other business
- 6. Approve pro rata payment to Drainage Board members
- 7. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE BLUE HERON DRAIN

June 22, 2021

A meeting of the Drainage Board for the Blue Heron Drain was held at 2:00 p.m. on the 22nd day of June, 2021. Due to the COVID-19 pandemic, the meeting was conducted electronically via GoToMeeting in accordance with PA 254 of 2020, as may be amended from time to time and/or as otherwise provided by law.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from

Farmington Hills, Michigan.

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of

Commissioners, participating from Novi, Michigan.

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners.

Minutes of the meeting held October 22, 2019 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ROLL CALL VOTE:

NASH: AYE MARKHAM: AYE

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$4,846 for the Blue Heron Drain (as attached) were presented. It was moved by Markham, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$4,846 as presented.

ROLL CALL VOTE:

NASH: AYE MARKHAM: AYE

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ROLL CALL VOTE:

NASH: AYE MARKHAM: AYE

There being no further business, the meeting was adjourned.

Him has

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Blue Heron Drain, Oakland County, Michigan, held on the 22nd day of June, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Blue Heron Drain.

Jim Nash, Chairperson

Dated: June 22, 2021

OAKLAND COUNTY WATER RESOURCES COMMISSIONER MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE Blue Heron Drain

Assessment for estimated maintenance expenses for fiscal years: 2024 through 2026

Table to the state of the state	-		
Date last assessment approved:	06/22/21		
Last Assessment:		\$4,846	
Current Available Cash:		\$243	
Expenditure History:	Fiscal Year	Amount	_
	2017	61 102	
	2017	\$1,193	
	2018	\$1,506	
	2019	\$1,389	
	2020	\$2,256	
	2021	\$1,796	
	2022	\$1,497	
	2023	\$1,381	
Estimated Expenditures:	Year	Amount	_
	2024	\$1,800	
	2025	\$1,800	
	2026	\$1,800	
-	Total	\$5,400	=
Recommended Assessment:			
Total Anticipated Expenses 2024 - 2026		\$5,400	
TOTAL RECOMMENDED ASSESSMENT		\$5,400	
Prepared by: Andrea Craft Andrea Craft - Engineering Systems Coordinator			Date: 04/11/2024
Andrea Craft - Engineering Systems Coordinator			
pproved by:			Date:
Geoff Wilson, P.E Chief Engineer			
pproved by:			Date:
Gary Nigro, P.E Manager			

Note: Current Available Cash as of February 29, 2024, Fiscal Services Division Report.

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE BLUE HERON DRAIN

Public Corporation	*Percentage of Apportionment	otal Amount Assessment	Payment #1	Payment #2	Payment #3
Charter Township of West Bloomfield	79.1100%	\$ 4,271.94	\$ 4,271.94	-	-
County of Oakland on account of drainage to county highways	20.8900%	\$ 1,128.06	\$ 1,128.06	-	-
Total	100.000%	\$ 5,400.00	\$ 5,400.00	ş -	\$ -

^{*}Apportionment based on Final Order of Apportionment dated 5/26/1998.

Assessment Payment Due Date(s): Payment #1 05/31/2024

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the
Blue Heron Drain for the fiscal years 2024-2026 in accordance with the direction of the Drainage Boar
and the statutory provisions applicable thereto.

Jim Nash

Chairman of the Drainage Board for the Blue Heron Drain

The foregoing Special Assessment Roll for the maintenance of the Blue Heron Drain was approved by the Drainage Board on $__$.

Jim Nash

Chairman of the Drainage Board for the Blue Heron Drain

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

13. Donohue Drain

AGENDA

DRAINAGE BOARD FOR THE DONOHUE DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of September 21, 2021
- 3. Public Comments
- 4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$7,192
- 5. Other business
- 6. Approve pro rata payment to Drainage Board members
- 7. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE DONOHUE DRAIN

September 21, 2021

A meeting of the Drainage Board for the Donohue Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 21st day of September, 2021.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None

Minutes of the meeting held June 22, 2021 were presented for consideration. It was moved by Markham, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3

Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A request for approval of payment of invoices in the amount of \$5,440.42 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices in the amount of \$5,440.42.

ADOPTED: Yeas - 3

Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3

Nays - 0

There being no further business, the meeting was adjourned.

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Donohue Drain, Oakland County, Michigan, held on the 21st day of September, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Donohue Drain Drainage District.

Jim Nash, Chairperson

Dated: September 21, 2021

OAKLAND COUNTY WATER RESOURCES COMMISSIONER MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE <u>Donohue Drain</u>

Assessment for estimated maintenance expenses for fiscal years: 2024 through 2026

· issues and is a second of the second of th	101 110001 3 00101 202	· un cugn 2020	
Date last assessment approved:	06/22/21		
Last Assessment:		\$11,400	
Current Available Cash:		\$6,408	
Expenditure History:	Fiscal Year	Amount	
	2017	\$1,567	
	2018	\$4,923	
	2019	\$739	
	2020	\$4,467	
	2021	\$6,295	
	2022	\$298	
	2023	\$1,078	
Estimated Expenditures:	Year	Amount	
	2024	\$3,400	
	2025	\$3,400	
_	2026	\$3,400	
	Total	\$10,200	
Recommended Assessment:			
Total Anticipated Expenses 2024 - 2026		\$10,200	
Less Amount Exceeding Minimum Fund Balance*		(\$3,008)	
C			
TOTAL RECOMMENDED ASSESSMENT		\$7,192	
Proposed by Andrea Craft			Date: 04/11/2024
Prepared by: Andrea Craft Andrea Craft - Engineering Systems Coordinator			Date
			D .
Approved by: Geoff Wilson, P.E Chief Engineer			Date:
			Data
Approved by: Gary Nigro, P.E Manager			Date:
Gary Mgro, 1 .L Managor			

Note: Current Available Cash as of February 29, 2024, Fiscal Services Division Report. *(Minimum fund balance is equal to one year of maintenance)

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE DONOHUE DRAIN

Public Corporation	*Percentage of Apportionment	Total Amount of Assessment		Payment #1		Payment #2	Payment #3	
Charter Township of West Bloomfield	89.2800%	\$	6,421.02	\$	6,421.02	-	-	
County of Oakland on account of drainage to county highways	10.7200%	\$	770.98	\$	770.98	-	-	
Total	100.000%	\$	7,192.00	\$	7,192.00	S -	\$ -	

^{*}Apportionment based on Final Order of Apportionment dated 5/19/2009.

Assessment Payment Due Date(s): Payment #1 05/31/2024

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the
Donohue Drain for the fiscal years 2024- 2026 in accordance with the direction of the Drainage Board
and the statutory provisions applicable thereto.

Jim Nash

Chairman of the Drainage Board for the Donohue Drain

The foregoing Special Assessment Roll for the maintenance of the Donohue Drain was approved by the Drainage Board on $_$

Jim Nash

Chairman of the Drainage Board for the Donohue Drain

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

14. Hayes Drain

AGENDA

DRAINAGE BOARD FOR THE HAYES DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of June 22, 2021
- 3. Public Comments
- 4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$6,900
- 5. Other business
- 6. Approve pro rata payment to Drainage Board members
- 7. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE HAYES DRAIN

June 22, 2021

A meeting of the Drainage Board for the Hayes Drain was held at 2:00 p.m. on the 22nd day of June, 2021. Due to the COVID-19 pandemic, the meeting was conducted electronically via GoToMeeting in accordance with PA 254 of 2020, as may be amended from time to time and/or as otherwise provided by law.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from

Farmington Hills, Michigan.

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of

Commissioners, participating from Novi, Michigan.

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners.

Minutes of the meeting held October 22, 2019 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ROLL CALL VOTE:

NASH: AYE MARKHAM: AYE

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$6,300 for the Hayes Drain (as attached) were presented. It was moved by Markham, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$6,300 as presented.

ROLL CALL VOTE:

NASH: AYE MARKHAM: AYE

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ROLL CALL VOTE:

NASH: AYE MARKHAM: AYE

There being no further business, the meeting was adjourned.

Him Tran

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Hayes Drain, Oakland County, Michigan, held on the 22nd day of June, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Hayes Drain.

Jim Nash, Chairperson

Dated: June 22, 2021

OAKLAND COUNTY WATER RESOURCES COMMISSIONER MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE <u>Hayes Drain</u>

Assessment for estimated maintenance expenses for fiscal years: 2024 through 2026

Date last assessment approved:	06/22/21		
Last Assessment:		\$6,300	
Current Available Cash:		\$1,951	
Current Avanable Casii.		ψ1,231	
Expenditure History:	Fiscal Year	Amount	-
	2017	\$1,653	
	2018	\$1,525	
	2019	\$1,987	
	2020	\$2,321	
	2021	\$3,291	
	2022	\$1,684	
	2023	\$2,034	
Estimated Expenditures:	Year	Amount	_
	2024	\$2,300	
	2025	\$2,300	
	2026	\$2,300	
-	Total	\$6,900	-
Recommended Assessment:			
Total Anticipated Expenses 2024 - 2026		\$6,900	
TOTAL RECOMMENDED ASSESSMENT		\$6,900	
pared by: Andrea Craft Andrea Craft - Engineering Systems Coordinator			Date: 04/11/2024
Andrea Craft - Engineering Systems Coordinator			_
oved by: Geoff Wilson, P.E Chief Engineer			_Date:
Geoff Wilson, P.E Chief Engineer			
roved by:			Date:

Note: Current Available Cash as of February 29, 2024, Fiscal Services Division Report.

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE HAYES DRAIN

Public Corporation	*Percentage of Apportionment	Total Amount of Assessment Pay		Payment #1	Payment #2	Payment	#3	
Charter Township of Commerce	20.2200%	\$	1,395.18	\$	1,395.18	-	-	
Charter Township of West Bloomfield	77.3600%	\$	5,337.84	\$	5,337.84	-	-	
County of Oakland on account of drainage to county highways	2.4200%	\$	166.98	\$	166.98	-	-	
Total	100.000%	\$	6,900.00	\$	6,900.00	-	\$	_

^{*}Apportionment based on Final Order of Apportionment dated 4/14/1976.

Assessment Payment Due Date(s): Payment #1 05/31/2024

Chairman of the Drainage Board for the Hayes Drain

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the
Hayes Drain for the fiscal years 2024- 2026 in accordance with the direction of the Drainage Board
and the statutory provisions applicable thereto.

Jim Nash
Chairman of the Drainage Board for the Hayes Drain
The foregoing Special Assessment Roll for the maintenance of the Hayes Drain was approved
by the Drainage Board on .
Jim Nash

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

15. Korzon Drain

AGENDA

DRAINAGE BOARD FOR THE KORZON DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of November 17, 2020
- 3. Public Comments
- 4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$3,711
- 5. Other business
- 6. Approve pro rata payment to Drainage Board Members
- 7. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE KORZON DRAIN

November 17, 2020

A meeting of the Drainage Board for the Korzon Drain was held at 2:00 p.m. on the 17th of November, 2020. The meeting was conducted electronically via GoToMeeting in accordance with PA 228 of 2020.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from Farmington Hills, Michigan.

> David Woodward, Chairperson of the Oakland County Board of Commissioners, participating from Royal Oak, Michigan.

> Helaine Zack, Chairperson of the Finance Committee, Oakland County Board of Commissioners, participating from Huntington Woods, Michigan.

Minutes of the meeting held November 17, 2015 were presented for consideration. It was moved by Zack, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas -Navs -

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$8,400 for the Korzon Drain (as attached) were presented. It was moved by Zack, supported by Woodward, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$8,400 as presented.

ADOPTED: Yeas -Nays -

> It was moved by Nash, supported by Zack, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Zack and Mr. Woodward.

ADOPTED: Yeas -

Nays -

There being no further business, the meeting was adjourned.

Jim Nash, Chairperson

Page 1 of 2

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Korzon Drain, Oakland County, Michigan, held on the 17th day of November, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Korzon Drain Drainage District.

Jim Nash, Chairperson

Dated: November ___30___, 2020

OAKLAND COUNTY WATER RESOURCES COMMISSIONER MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE <u>Korzon Drain</u>

Assessment for estimated maintenance expenses for fiscal years: 2024 through 2026

1	J	8	
Date last assessment approved:	11/17/20		
Last Assessment:	11/1//20	\$8,400	
Current Available Cash:		\$5,489	
Current Available Cash.		\$3,469	
Expenditure History:	Fiscal Year	Amount	-
	2017	\$1,482	
	2017	\$2,780	
	2019	\$2,110	
	2020	\$814	
	2020	\$430	
	2021		
	2022	\$2,911 \$951	
	2023	\$931	
Estimated Expenditures:	Year	Amount	-
	2024	\$2,300	
	2025	\$2,300	
	2026	\$2,300	
-	Total	\$6,900	-
Recommended Assessment:			
Accommended Assessment.			
Total Anticipated Expenses 2024 - 2026		\$6,900	
Less Amount Exceeding Minimum Fund Balance*		(\$3,189)	
9		(4-))	
TOTAL RECOMMENDED ASSESSMENT		\$3,711	
Propagad by: Andrea Craft			Date: 04/11/2024
Prepared by: Andrea Craft Andrea Craft - Engineering Systems Coordinator			- Date.
2 2 7			
Approved by:			Date:
Approved by: Geoff Wilson, P.E Chief Engineer			
Approved by:			Date:
Gary Nigro, P.E Manager			

Note: Current Available Cash as of February 29, 2024, Fiscal Services Division Report. *(Minimum fund balance is equal to one year of maintenance)

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE KORZON DRAIN

Public Corporation	*Percentage of Apportionment	otal Amount Assessment	Payment #1	Payment #2	Payment #3
Charter Township of Bloomfield	86.1760%	\$ 3,197.99	\$ 3,197.99	-	-
County of Oakland on account of drainage to county highways	13.8240%	\$ 513.01	\$ 513.01	-	-
Total	100.000%	\$ 3,711.00	\$ 3,711.00	§ -	\$ -

^{*}Apportionment based on Final Order of Apportionment dated 7/26/1994.

Chairman of the Drainage Board for the Korzon Drain

Assessment Payment Due Date(s): Payment #1 05/31/2024
I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Korzon Drain for the fiscal years 2024- 2026 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.
Jim Nash Chairman of the Drainage Board for the Korzon Drain
The foregoing Special Assessment Roll for the maintenance of the Korzon Drain was approved by the Drainage Board on
Jim Nash

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

16. Mullen Drain

AGENDA

DRAINAGE BOARD FOR THE MULLEN DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of June 22, 2021
- 3. Public Comments
- 4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$8,366
- 5. Other business
- 6. Approve pro rata payment to Drainage Board members
- 7. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE MULLEN DRAIN

June 22, 2021

A meeting of the Drainage Board for the Mullen Drain was held at 2:00 p.m. on the 22nd day of June, 2021. Due to the COVID-19 pandemic, the meeting was conducted electronically via GoToMeeting in accordance with PA 254 of 2020, as may be amended from time to time and/or as otherwise provided by law.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from

Farmington Hills, Michigan.

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of

Commissioners, participating from Novi, Michigan.

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners.

Minutes of the meeting held January 27, 2015 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ROLL CALL VOTE:

NASH: AYE MARKHAM: AYE

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$23,155 for the Mullen Drain (as attached) were presented. It was moved by Markham, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$23,155 as presented.

ROLL CALL VOTE:

NASH: AYE MARKHAM: AYE

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ROLL CALL VOTE:

NASH: AYE MARKHAM: AYE

There being no further business, the meeting was adjourned.

Him has

Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Mullen Drain, Oakland County, Michigan, held on the 22nd day of June, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Mullen Drain.

Jim Nash, Chairperson

Dated: June 22, 2021

OAKLAND COUNTY WATER RESOURCES COMMISSIONER MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE <u>Mullen Drain</u>

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2024 through 2026

	1	, ,	
Date last assessment approved:	06/22/21		
Last Assessment:		\$23,155	
Current Available Cash*:		(\$566)	
		(42.00)	
Expenditure History:	Fiscal Year	Amount	
	2017	\$858	
	2018	\$2,137	
	2019	\$2,271	
	2020	\$2,355	
	2021	\$1,546	
	2022	\$4,583	
	2023	\$2,454	
	2023	Ψ2,131	
Estimated Expenditures:	Year	Amount	
	2024	\$2,600	
	2025	\$2,600	
	2026	\$2,600	
·	Total	\$7,800	
Recommended Assessment:			
Current Cash Deficit		\$566	
Total Anticipated Expenses 2024 - 2026		\$7,800	
TOTAL RECOMMENDED ASSESSMENT		\$8,366	
Prepared by: Andrea Craft			Date: 04/11/2024
Andrea Craft - Engineering Systems Coordinator			
Approved by:			Date:
Geoff Wilson, P.E Chief Engineer			
Approved by:			Date:
Gary Nigro, P.E Manager			

Note: Current Available Cash as of February 29, 2024, Fiscal Services Division Report. *(Less \$14,100 previously collected for special maintenance expenses, but not yet spent)

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE MULLEN DRAIN

Public Corporation	*Percentage of Apportionment	tal Amount Assessment	Payment #1	Payment #2	Payment #3
Charter Township of West Bloomfield	73.33165%	\$ 6,134.93	\$ 6,134.93	-	-
County of Oakland on account of drainage to county highways	26.66835%	\$ 2,231.07	\$ 2,231.07	-	-
Total	100.000%	\$ 8,366.00	\$ 8,366.00	\$ -	\$ -

^{*}Apportionment based on Final Order of Apportionment dated 2/3/1969.

Assessment Payment Due Date(s): Payment #1 05/31/2024

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Mullen Drain for the fiscal years 2024- 2026 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

Jim Nash
Chairman of the Drainage Board for the Mullen Drain

The foregoing Special Assessment Roll for the maintenance of the Mullen Drain was approved by the Drainage Board on ______.

Jim Nash
Chairman of the Drainage Board for the Mullen Drain

Chapter 20 Drainage Board Meeting

Regular Meeting – Tuesday, April 23, 2024

17. Powers Drain

AGENDA

DRAINAGE BOARD FOR THE POWERS DRAIN

April 23, 2024

- 1. Call meeting to order
- 2. Approve minutes of meeting of June 22, 2021
- 3. Public Comments
- 4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$4,500
- 5. Other business
- 6. Approve pro rata payment to Drainage Board members
- 7. Adjourn

MINUTES OF THE MEETING OF THE DRAINAGE BOARD FOR THE POWERS DRAIN

June 22, 2021

A meeting of the Drainage Board for the Powers Drain was held at 2:00 p.m. on the 22nd day of June, 2021. Due to the COVID-19 pandemic, the meeting was conducted electronically via GoToMeeting in accordance with PA 254 of 2020, as may be amended from time to time and/or as otherwise provided by law.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from

Farmington Hills, Michigan.

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of

Commissioners, participating from Novi, Michigan.

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners.

Minutes of the meeting held October 22, 2019 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ROLL CALL VOTE:

NASH: AYE MARKHAM: AYE

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$7,000 for the Powers Drain (as attached) were presented. It was moved by Markham, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$7,000 as presented.

ROLL CALL VOTE:

NASH: AYE MARKHAM: AYE

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ROLL CALL VOTE:

NASH: AYE MARKHAM: AYE

There being no further business, the meeting was adjourned.

Him has

STATE OF MICHIGAN)
)SS
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Powers Drain, Oakland County, Michigan, held on the 22nd day of June, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Powers Drain.

Jim Nash, Chairperson

Dated: June 22, 2021

OAKLAND COUNTY WATER RESOURCES COMMISSIONER MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE <u>Powers Drain</u>

Assessment for estimated maintenance expenses for fiscal years: 2024 through 2026

	Date last assessment approved:	06/22/21		
	Last Assessment:		\$7,000	
	Current Available Cash*:		\$1,422	
	Expenditure History:	Fiscal Year	Amount	_
		2017	\$767	
		2018	\$1,112	
		2019	\$1,349	
		2020	\$1,507	
		2021	\$1,542	
		2022	\$1,128	
		2023	\$1,326	
	Estimated Expenditures:	Year	Amount	_
		2024	\$1,500	
		2025	\$1,500	
	_	2026	\$1,500	_
	-	Total	\$4,500	
Re	ecommended Assessment:			
	Total Anticipated Expenses 2024 - 2026		\$4,500	
TO	OTAL RECOMMENDED ASSESSMENT		\$4,500	
amound by:	Andrea Craft			Date: 04/11/2024
epared by: Ar	ndrea Craft - Engineering Systems Coordinator			_Date:
proved by:				Date:
	eoff Wilson, P.E Chief Engineer			
proved by:				Date:
	ary Nigro, P.E Manager			

Note: Current Available Cash as of February 29, 2024, Fiscal Services Division Report. *(Less \$2,500 previously collected for special maintenance expenses, but not yet spent)

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE POWERS DRAIN

Public Corporation	*Percentage of Apportionment	al Amount Assessment	Payment #1	Payment #2	Payment #3
Charter Township of West Bloomfield	80.4604%	\$ 3,620.72	\$ 3,620.72	-	-
County of Oakland on account of drainage to county highways	19.5396%	\$ 879.28	\$ 879.28	-	-
Total	100.000%	\$ 4,500.00	\$ 4,500.00	\$ -	\$ -

^{*}Apportionment based on Final Order of Apportionment dated 1/20/1970.

Assessment Payment Due Date(s): Payment #1 05/31/2024

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the
Powers Drain for the fiscal years 2024- 2026 in accordance with the direction of the Drainage Board
and the statutory provisions applicable thereto.

Jim Nash
Chairman of the Drainage Board for the Powers Drain
The foregoing Special Assessment Roll for the maintenance of the Powers Drain was approved by the Drainage Board on
Jim Nash
Chairman of the Drainage Board for the Powers Drain