

NOTICE OF MEETINGS
DRAINAGE BOARD FOR THE FOLLOWING DRAINS:

1. Evergreen-Farmington Sanitary Sewer Drain
2. Acacia Park CSO Drain
3. Birmingham CSO Drain
4. Bloomfield Village CSO Drain
5. George W. Kuhn Drain
6. Clinton River Water Resource Recovery Facility
7. City of Pontiac Wastewater Treatment Facility
8. Augusta Drain
9. Pontiac Clinton River No. 1 Drain
10. Joachim Relief Drain
11. Jamian Drain
12. Johnson Drain
13. Wilmont Relief Drain
14. Northwest Oakland Sanitary Sewer Drain
15. Rufe Collier 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, MARCH 25, 2025**, 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

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1. Evergreen-Farmington Sanitary Drain

AGENDA

DRAINAGE BOARD FOR THE EVERGREEN-FARMINGTON SANITARY DRAIN

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2025
3. Public Comments
4. Gallagher Insurance Renewal Proposal
5. Present Memorandum from Jeffrey Parrott, Supervisor, Right of Way, dated March 25, 2025, requesting the Board authorize the Chairperson to sign the temporary construction license
6. Present Memorandum from Lesli Maes, P.E., Operations Engineer, dated March 25, 2025, requesting the Board to :
 - I. Approve the Walnut Lake 1 Pump Station Controls and Pump Improvement project for the budgeted amount of \$180,000 utilizing funds from the Capital Improvement reserves
 - II. Authorize Fishbeck Inc. to proceed with the proposed engineering services for a not to exceed amount of \$27,300
7. Present Memorandum from Philip Kerby, P.E., Operations Engineer, dated March 25, 2025, requesting the Board add the Sanitary Sewer Rehabilitation project to the capital improvement plan with a design budget of \$77,900 and award the engineering services contract to Hubble, Roth, & Clark Inc. for a not to exceed amount of \$69,900
8. Present Construction Estimate No. 36 for Walsh Construction Company II, LLC for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$ 711,788.33
9. Present Construction Estimate No. 4 for SAK Construction for Design and Construction of the Southfield Sewer Lining Project in the amount of \$74,276.15 with a transfer to the Oakland County Treasurer in the amount of \$8,252.91
10. Present request for Board approval of payment of invoices from the Evergreen Farmington Sanitary Drain from the Maintenance Fund in the amount of \$234,157.03
11. Present request for Board approval of payment of invoices from the Evergreen Farmington Sanitary Drain from the Construction Fund in the amount of \$96,740.65
12. Other business
13. Approve pro rata payment to Drainage Board members
14. Adjourn

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

February 25, 2025

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 25th day of February 2025.

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

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

ABSENT: None.

Minutes of the meeting held January 28, 2025, were presented for consideration. It was moved by Taylor, 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 from Philip Kerby, P.E., Operations Engineer, dated February 25, 2025, requesting the Board add the rehabilitation project to the capital improvement plan with a design budget of \$84,900 and award the engineering services contract to Fishbeck, Inc. in the amount of \$76,900 was presented. It was moved by Taylor, supported by Woodward, to add the rehabilitation project to the capital improvement plan with a design budget of \$84,900 and award the engineering services contract to Fishbeck, Inc. in the amount of \$76,900 as presented.

ADOPTED: Yeas - 3
Nays - 0

A memorandum from Evans Bantios, P.E., Chief Engineer, dated February 25, 2025, requesting the Board receive and file the Walnut 1 Corrective Action Plan – Project Cost Summary was presented. It was moved by Taylor, supported by Woodward, to receive and file the Walnut 1 Corrective Action Plan – Project Cost Summary as presented.

ADOPTED: Yeas - 3
Nays - 0

Change Order No. 4 for Midwest Power Systems, Inc. for Construction of the

Lathrup Village Sanitary Retention Tank Improvements for a net increase in the amount of \$2,721.70 was presented. It was moved by Taylor, supported by Woodward, to approve Change Order No. 4 for Midwest Power Systems, Inc. for Construction of the Lathrup Village Sanitary Retention Tank Improvements for a net increase in the amount of \$2,721.70 as presented.

ADOPTED: Yeas - 3
Nays - 0

Construction Estimate No. 35 for Walsh Construction Company II, LLC for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$ 1,027,566.44 was presented. It was moved by Taylor, supported by Woodward, to approve Construction Estimate No. 35 for Walsh Construction Company II, LLC for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$1,027,566.44 as presented.

ADOPTED: Yeas - 3
Nays - 0

Construction Estimate No. 3 for SAK Construction for Design and Construction of the Southfield Sewer Lining Project in the amount of \$63,495.50 with a transfer to the Oakland County Treasurer in the amount of \$7,055.06 was presented. It was moved by Taylor, supported by Woodward, to approve Construction Estimate No. 3 for SAK Construction for Design and Construction of the Southfield Sewer Lining Project in the amount of \$63,495.50 with a transfer to the Oakland County Treasurer in the amount of \$7,055.06 as presented.

ADOPTED: Yeas - 3
Nays - 0

A request for approval of payment of invoices from the Evergreen Farmington Sanitary Drain Maintenance Fund in the amount of \$240,117.97 (as attached) was presented. It was moved by Taylor, supported by Woodward, to approve the payment of invoices from the Evergreen Farmington Sanitary Drain Maintenance Fund in the amount of \$240,117.97 as presented.

ADOPTED: Yeas - 3
Nays - 0

A request for approval of payment of invoices from the Evergreen Farmington Sanitary Drain Construction Fund in the amount of \$121,048.14 (as attached) was presented. It was moved by Taylor, supported by Woodward, to approve the payment of invoices from the Evergreen Farmington Sanitary Drain Construction Fund in the amount of \$121,048.14 as presented.

ADOPTED: Yeas - 3
Nays - 0

A motion was made by Woodward, supported by Taylor, to enter into closed session at 4:00 p.m. to consider an attorney-client memorandum exempt from discussion or disclosure pursuant to section 8(h) of the Freedom of Information Act.

ADOPTED: Yeas - 3
Nays - 0

Chairperson Nash declared the closed session ended at 4:04 p.m.

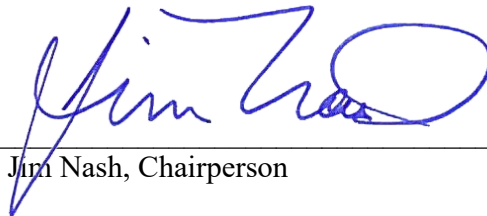
A resolution regarding the Cedaridge Apartments Claim and Lawsuit was presented by Chief Legal Officer Kelsey Cooke. It was moved by Taylor, supported by Woodward, to approve the resolution and authorize the Chairperson to sign the resolution on behalf of the Drainage District as presented.

ADOPTED: Yeas - 3
Nays - 0

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

ADOPTED: Yeas - 3
Nays - 0

There being no further business, the meeting was adjourned.

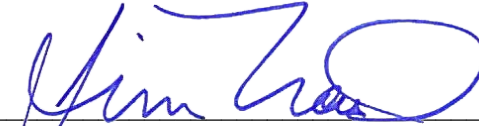


Jim Nash, Chairperson

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 Evergreen-Farmington Sanitary Drain, Oakland County, Michigan, held on the 25th day of February 2025, 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: February 25, 2025



Proposal of Insurance

Evergreen-Farmington Sanitary Drain Drainage District

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

Presentation Date: March 25, 2025

Arthur J Gallagher Risk Management Services, LLC
AJG License Nos. IL 100292093 / CA 0D69293



Gallagher

Insurance | Risk Management | Consulting



Insurance | Risk Management | Consulting

Liability Program Summary - Evergreen Farmington Sanitary Drain Drainage District

Prepared March 6th, 2025

	2024 Lexington Option	Expiring Program	Renewal Program
Term	4/27/2024-2025	4/27/2024-2025	4/27/2025-2026
Primary Carrier	Lexington	Liberty Mutual	Liberty Mutual
Form Type	Occurrence	Occurrence	Occurrence
Primary Limit	\$1,000,000	\$1,000,000	\$1,000,000
1st Excess Limit	\$5,000,000	\$10,000,000	\$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	\$5,000,000	\$5,000,000	\$5,000,000
5th Excess limit	n/a	\$5,000,000	\$5,000,000
Limits	\$21,000,000 (Combined General Liability and Public Officials)	\$31,000,000 (Combined General Liability and Public Officials)	\$31,000,000 (Combined General Liability and Public Officials)
Retention	\$250,000	\$250,000	\$250,000
Primary Premium	\$133,025	\$87,397	\$96,808
1st Excess Premium	\$141,944	\$59,340	\$66,673
2nd Excess Premium	\$120,000	\$91,668	\$102,773
3rd Excess Premium	\$59,500	\$61,500	\$70,212
4th Excess Premium	\$57,500	\$53,275	\$59,025
5th Excess Premium		\$48,500	\$54,200
Premium	\$511,969	\$401,680	\$449,691
Percentage Change		-21.5%	12.0%
<u>Defense Costs</u>	GL - Outside the limit, POL - Inside the limit	GL - Outside the limit, POL - Inside the limit	GL - Outside the limit, POL - Inside the limit
<u>Duty to Defend</u>	Right and Duty	Right and Duty	Right and Duty
<u>How Limits Apply</u>	Seperate Aggregate Limits	Shared Aggregate Excess	Shared Aggregate Excess
<u>Backup Exclusion</u> - Backup or overflow of any sewer line installed, owned, maintained and/or serviced by you.	Yes	Yes	Yes
<u>Earth Movement (Subsidence) Exclusion</u> – applies to Property Damage liability only (does not exclude Bodily Injury)	Exclusion for Property Damage	No Exclusion for Bodily Injury or Property Damage	No Exclusion for Bodily Injury or Property Damage



Insurance | Risk Management | Consulting

**Property Program Summary - Evergreen Farmington Sanitary Drain
Drainage District**

Prepared March 6th, 2025

	Expiring Program	Renewal Program
Term	4/27/2024-2025	4/27/2025-2026
Carrier	Chubb (Ace)	Chubb (Ace)
Property		
Loss Limit	\$50,000,000	\$50,000,000
TIV (-.9%)	\$1,842,246,917	\$1,825,666,695
Property Rate (+4.32%)	\$0.01525	\$0.01591
Deductible	\$3,000,000	\$3,000,000
Earth Movement Limit	\$50,000,000	\$50,000,000
Flood Limit	\$10,000,000	\$10,000,000
Extra Expense	\$1,000,000	\$1,000,000
Expediting Expense	\$1,000,000	\$1,000,000
Premium	\$294,990	\$304,987

Evergreen-Farmington Sanitary Drain Drainage District

Statement of Values

Site ID	Location Description	Year Install	Last Intervention Year	Street Number	Street Name	City	Zip Code	Est. Replacement Cost 2025
75-004	12 Mile & I-696 Lift Station	1977	2017	34189	W Twelve Mile Road	Farmington Hills	48331	\$ 889,878
75-037	Amy Lift Station	1990	2019	1865	Stonycroft Lane	Bloomfield Hills	48304	\$ 4,549,438
75-007	Biddestone Lift Station	1977	2012	26430	Farmington Road	Farmington Hills	48334	\$ 1,294,519
75-257	Burnley (Wattles) Flow Regulator	2017	2017	698	Wattles Road	Bloomfield Hills	48304	\$ 77,260
75-256	Chestnut Hills (Wattles) Flow Regulator	2017	2018	2980	W Wattles Road	Troy	48098	\$ 161,745
75-006	Drake Lift Station	1976	2018	26579	Drake Road	Farmington Hills	48334	\$ 3,110,737
75-016	EF Overflow Chamber	1958	2019	20130	Eight Mile Road West	Southfield	48075	\$ 2,071,009
75-008	Eight Mile Lift Station	1958	2019	22430	Eight Mile Road West	Southfield	48034	\$ 10,830,274
75-207	Eight Mile Road Septage Unloading Facility	2010	2010	22410	Eight Mile Road West	Southfield	48034	\$ 681,999
75-267	Eldon List Station	2019	2019	29329	Eldon Street	Farmington Hills	48334	\$ 820,844
75-023	Inkster Road Lift Station	2000	2000	22500	Inkster Road	Southfield	48034	\$ 495,130
75-259	Middlebelt Storage Diversion Chamber DC-1	2018	2018	27680	Middlebelt Road	Farmington Hills	48331	\$ 712,569
75-258	Middlebelt Storage Flow Regulator TS-1	2018	2018	27050	Middlebelt Road	Farmington Hills	48331	\$ 1,535,748
75-260	Middlebelt Storage Flow Regulator TS-5A	2018	2018	29514	Middlebelt Road	Farmington Hills	48331	\$ 3,598,419
75-009	Morris Lake Lift Station	1993	2020	5100	Old Sanbargo Way	West Bloomfield Twp	48323	\$ 543,042
75-262	Quarton Dewatering Chamber	2018	2018	37002	Woodward Avenue	Bloomfield Hills	48304	\$ 237,338
75-261	Quarton Inlet Diversion Regulator	2018	2018	37347	Woodward Avenue	Bloomfield Hills	48304	\$ 337,387
75-254	Quarton Road Lift Station	1999	2018	1371	Quarton Road	Birmingham	48009	\$ 245,119
75-272	Southfield Diversion Chamber	1958	1986	1900*	West Eight Mile*	Southfield	48075	\$ 546,711
75-005	Thornbrook Lift Station	1977	2018	34633	Thornbrook Drive	Farmington Hills	48335	\$ 3,583,968
75-271	Walnut No. 1 FM Diversion Chamber	2020	2020	1900	S Cranbrook Road	Birmingham	48009	\$ 621,414
74-001	Walnut No. 1 Lift Station	1968	2014	7498	Inkster Road	West Bloomfield	48322	\$ 6,422,572
75-002	Walnut No. 2 Lift Station	1967	2011	5112/5110	Inkster Road	Bloomfield Hills	48302	\$ 1,100,536
75-003	Walnut No. 3 Lift Station	1967	2012	2008	Long Lake Road	Bloomfield Hills	48302	\$ 546,377
								\$ 45,014,032



Evergreen-Farmington Sanitary Drain Drainage District

Statement of Values (cont.)

Interceptor Name	Cost	Engineering (design & CCA)	Admin & Legal	Contingency	Total Replacement Cost 2025
Evergreen Farmington Interceptor	\$ 234,176,250	\$ 42,151,725	\$ 28,101,150	\$ 70,252,875	\$ 466,252,475
Evergreen-Farmington Relief	\$ 6,707,500	\$ 1,207,350	\$ 804,900	\$ 2,012,250	\$ 13,354,849
Evergreen-Farmington Contract #7	\$ 5,901,250	\$ 1,062,225	\$ 708,150	\$ 1,770,375	\$ 11,749,579
Evergreen Relocation at 696	\$ 6,940,000	\$ 1,249,200	\$ 832,800	\$ 2,082,000	\$ 13,817,764
Evergreen Mile Arms	\$ 36,384,375	\$ 6,549,188	\$ 4,366,125	\$ 10,915,313	\$ 72,442,465
Evergreen Relocation at 11 Mile	\$ 1,211,875	\$ 218,138	\$ 145,425	\$ 363,563	\$ 2,412,882
Evergreen Relocation at 10 Mile	\$ 3,028,750	\$ 545,175	\$ 363,450	\$ 908,625	\$ 6,030,339
Evergreen Extension #1	\$ 10,535,000	\$ 1,896,300	\$ 1,264,200	\$ 3,160,500	\$ 20,975,525
Evergreen Extension #2	\$ 4,751,250	\$ 855,225	\$ 570,150	\$ 1,425,375	\$ 9,459,892
8 Mile Rd Interceptor	\$ 21,114,375	\$ 3,800,588	\$ 2,533,725	\$ 6,334,313	\$ 42,039,402
Bloomfield Hills Interceptor	\$ 1,569,375	\$ 282,488	\$ 188,325	\$ 470,813	\$ 3,124,676
Bingham Farms Ext 1	\$ 3,704,375	\$ 666,788	\$ 444,525	\$ 1,111,313	\$ 7,375,530
Bingham Farms Ext 2	\$ 2,988,125	\$ 537,863	\$ 358,575	\$ 896,438	\$ 5,949,453
Big Beaver Sewer	\$ 953,750	\$ 171,675	\$ 114,450	\$ 286,125	\$ 1,898,947
Amy Relief	\$ 4,866,250	\$ 875,925	\$ 583,950	\$ 1,459,875	\$ 9,688,861
14 Mile-Maple Rd Arm	\$ 11,426,250	\$ 2,056,725	\$ 1,371,150	\$ 3,427,875	\$ 22,750,033
13 Mile Rd Arm	\$ 47,911,250	\$ 8,624,025	\$ 5,749,350	\$ 14,373,375	\$ 95,392,846
10 Mile Rd Arm	\$ 39,326,875	\$ 7,078,838	\$ 4,719,225	\$ 11,798,063	\$ 78,301,078
Morris Lake Arm	\$ 8,085,000	\$ 1,455,300	\$ 970,200	\$ 2,425,500	\$ 16,097,496
North Evergreen Interceptor	\$ 70,981,250	\$ 12,776,625	\$ 8,517,750	\$ 21,294,375	\$ 141,325,961
Grand River Arm	\$ 3,922,500	\$ 706,050	\$ 470,700	\$ 1,176,750	\$ 7,809,824
Grand River Arm Relief	\$ 1,034,375	\$ 186,188	\$ 124,125	\$ 310,313	\$ 2,059,474
Kendallwood Arm	\$ 9,658,750	\$ 1,738,575	\$ 1,159,050	\$ 2,897,625	\$ 19,230,883
Quarton Rd Relief	\$ 2,665,000	\$ 479,700	\$ 319,800	\$ 799,500	\$ 5,306,101
Rouge River-Farmington Int	\$ 44,416,875	\$ 7,995,038	\$ 5,330,025	\$ 13,325,063	\$ 88,435,432
South Evergreen Int	\$ 159,298,125	\$ 28,673,663	\$ 19,115,775	\$ 47,789,438	\$ 317,167,711
Southfield Rouge Arm	\$ 58,034,375	\$ 10,446,188	\$ 6,964,125	\$ 17,410,313	\$ 115,548,315
Southfield Rouge Arm North Ext	\$ 1,316,250	\$ 236,925	\$ 157,950	\$ 394,875	\$ 2,620,696
Southfield Rouge Arm West Branch	\$ 5,384,375	\$ 969,188	\$ 646,125	\$ 1,615,313	\$ 10,720,464
Tarabusi Arm	\$ 29,221,875	\$ 5,259,938	\$ 3,506,625	\$ 8,766,563	\$ 58,181,697
Walnut Lake Arm	\$ 28,756,250	\$ 5,176,125	\$ 3,450,750	\$ 8,626,875	\$ 57,254,622
Walnut Lake Relief	\$ 4,455,625	\$ 802,013	\$ 534,675	\$ 1,336,688	\$ 8,871,293
misc.	\$ 583,750	\$ 105,075	\$ 70,050	\$ 175,125	\$ 1,162,265
Total Gravity Main					\$ 1,734,808,833
Total Structures	\$ 12,833,125	\$ 2,309,963	\$ 1,539,975	\$ 3,849,938	\$ 25,551,166
Total Force main	\$ 10,168,125	\$ 1,830,263	\$ 1,220,175	\$ 3,050,438	\$ 20,245,065
Vertical Assets	\$ 25,308,063	\$ 4,555,451	\$ 3,036,968	\$ 7,592,419	\$ 45,014,032
misc. Assets*	\$ 23,906	\$ 4,303	\$ 2,869	\$ 7,172	\$ 47,598
Total EFSDS Replacement Cost	\$ 919,644,469	\$ 165,536,004	\$ 110,357,336	\$ 275,893,341	\$ 1,825,666,695



Evergreen-Farmington Sanitary Drain Drainage District

Premium Summary

The estimated program cost for the options are outlined in the following table:

Line of Coverage		Expiring	Renewal Option
		ACE American Ins. Co.	ACE American Ins. Co.
Property	Premium	\$294,990	\$304,987.00
	Estimated Cost*	\$294,990	\$304,987.00
	Change (\$)		
	Change (%)		
		LM Insurance Corporation	LM Insurance Corporation
General Liability & Public Officials Liability	Premium	\$87,397.00	\$96,808.00
	Estimated Cost*	\$87,397.00	\$96,808.00
	Change (\$)		
	Change (%)		
		LM Insurance Corporation	LM Insurance Corporation
\$10M X Primary Excess Liability	Premium	\$59,340.00	\$66,673.00
	Estimated Cost*	\$59,340.00	\$66,673.00
	Change (\$)		
	Change (%)		
		Homesite Insurance Company	Accredited Specialty Ins. Co.
\$5M X \$10M Excess Liability	Premium	\$91,668.00	\$102,773.68
	Estimated Cost*	\$91,668.00	\$102,773.68
	Change (\$)		
	Change (%)		
		StarStone Specialty Ins. Co.	StarStone Specialty Ins. Co.
\$5M X \$15M Excess Liability	Premium	\$61,500.00	\$70,212.50
	Estimated Cost*	\$61,500.00	\$70,212.50
	Change (\$)		
	Change (%)		
		Vantage Risk Specialty Ins Co.	Vantage Risk Specialty Ins Co.
\$5M X \$20M Excess Liability	Premium	\$53,275.00	\$59,025.25
	Estimated Cost*	\$53,275.00	\$59,025.25
	Change (\$)		
	Change (%)		
		Great American Assurance Co.	Great American Assurance Co.
\$5M X \$25M Excess Liability	Premium	\$48,500.00	\$54,200.00
	Estimated Cost*	\$48,500.00	\$54,200.00
	Change (\$)		
	Change (%)		
		ACE American Ins. Co.	ACE American Ins. Co.
Pollution Liability	Premium	\$92,499.00	\$94,319.00
	Estimated Cost*	\$92,499.00	\$94,319.00
	Change (\$)		
	Change (%)		
Total Cost		\$789,169	\$848,998.43

*Estimated Cost includes all taxes, fees, surcharges and TRIA premium (if applicable)

Premiums are due and payable as billed and may be financed, subject to acceptance by an approved finance company. Following acceptance, completion (and signature) of a premium finance agreement with the specified down payment is required. Note: Unless prohibited by law, Gallagher may earn compensation for this optional value-added service.

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**

MEMORANDUM

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

FROM: Jeffrey Parrott, Supervisor, Right of Way

SUBJECT: Temporary Construction License – EFSD Area 7 Lining Project

DATE: March 25, 2025

Staff is requesting a temporary construction license from the Corporation of the Presiding Bishop of the Church of Jesus Christ of Latter-Day Saints, for an upcoming project to install lining in the sanitary sewer located between 9 Mile and 10 Mile Roads in the City of Southfield. The temporary construction license is necessary to facilitate the contractor's access to district-owned infrastructure adjacent to the church property.

Attached for your review is the temporary construction license executed by the church.

Requested Action: Authorize the chairperson to sign the temporary construction license.

TEMPORARY CONSTRUCTION LICENSE

Parcel No. 2025-01
Project: EFSDS Southfield Rouge
Arm Area 7 Sanitary Sewer Lining

CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, A UTAH CORPORATION SOLE, Licensors, whose address is 50 E. North Temple St., Salt Lake City, Utah 84150, for and in consideration of the sum of **ONE DOLLAR (\$1.00)** receipt of which is hereby acknowledged, paid to them by the **EVERGREEN-FARMINGTON SANITARY DRAIN DRAINAGE DISTRICT** ("Drainage District") a Michigan Statutory Corporation, acting through the Drainage Board for the **EVERGREEN-FARMINGTON SANITARY DRAIN** ("Drain") pursuant to Act No. 40 of the Public Acts of 1956 ("Drain Code"), as amended, Licensee. Licensors do hereby convey to the said Licensee a **Temporary Construction License** for use during the rehabilitation of an existing sanitary sewer system, in accordance with the terms and conditions set forth herein:

RECITALS:

A. The Licensors are the owners of certain real property described as follows (the "Licensors Property"):

Land situated in the City of Southfield, County of Oakland, and State of Michigan more particularly described as:

Lots 14 & 15 of "**SUPERVISORS DEERLICK PARK SUBDIVISION**", a subdivision of part of the Southwest ¼, Section 28, T.0 1 N., R.10E., City of Southfield, Oakland County, Michigan, as recorded in Liber 47 of Plats, Page 15, Oakland County Records, **EXCEPT** the West 7 ft. and South 27 ft. taken for roads. Also, **EXCEPT** beginning at the northeast corner of Lot 15, thence S 89°50'37"W, 384.92 ft.; thence S 03°56'35" E, 210.46 ft.; thence N 89°50'37" E., 384.92 ft.; thence N 03°56'35" W, 210.46 ft. to the point of beginning.

Parcel ID #24-28-377-012

Commonly Known As: 23190 W. 9 Mile Rd., Southfield, MI 48033-6601

and,

B. The Licensee desires to acquire from the Licensors certain rights to a portion of the Licensors Property in order to rehabilitate an existing sanitary sewer system.

IT IS THEREFORE AGREED:

1. **Temporary License.** Licensors hereby convey to Licensee a temporary license (the "License") for the rehabilitation of an existing sanitary sewer system, described as follows, and which shall terminate upon completion of rehabilitation of the system (the "License Area"):

Beginning at the northeast corner of the above-described parcel; thence S 03°56'35" E, 79.17 ft. along the east parcel line; thence N 89°50'37" W, 384.98 ft. to a point on the west parcel line; thence N 03°56'35" W, 32.99 ft. along the west parcel line; thence S 89°50'37" E, 254.79 ft.; thence N 54°35'39" E, 79.84 ft. to a point on the North parcel line; thence along said parcel line, N 89°50'37" W, 61.95 ft. to the point of beginning.

2. **Purpose of the License.** The License granted herein shall be used only for the rehabilitation of the system in accordance with the plans and specifications approved by the Licensors and Licensee. The License may be used to move personnel and equipment and to store materials and equipment.

3. **General Conditions.**

- a. A map of the above-described License is attached hereto and made a part thereof.
- b. The License granted herein shall terminate upon the earlier to occur of: (i) Licensee's completion of construction, or (ii) December 30, 2025 (the "Term").
- c. Except as otherwise agreed in writing between the Licensors and Licensee, Licensee will preserve and protect all trees over 4" in diameter within the License Area during rehabilitation of the system.
- d. Except as otherwise provided herein, if the Licensors Property and/or License Area shall be disturbed by reason of the exercise of any of the foregoing powers, then the Licensors Property and/or License Area shall be restored to the same or better condition that existed prior to entering upon said Licensors Property and/or License Area by the Licensee, its contractors, agents or assigns. Licensee's restoration responsibilities shall also include, but not be limited to: (i) removal of all improvements, equipment or materials which it has caused to be placed upon the Licensors Property; (ii) mounding of the same topsoil which was originally removed in the excavation process, in all areas excavated by Licensee such that the mounded areas shall settle to the approximate depth of the surrounding surface after the construction activities; (iii) the filling in and repairing of all other portions of the Licensors Property which are damaged, rutted or

otherwise disturbed as a result of Licensee's operations with the same topsoil existing prior to said construction activities as necessary such that all disturbed areas are ready for re-vegetation; (iv) compacting the soil after it is backfilled to a density acceptable to Licensors; (v) grading the areas in which the soils were removed and relocated; and (vi) leaving the Licensors Property in a condition which is clean, free of debris and hazards which may be caused by Licensee's activities, and subject to neither, environmental hazards, nor liens caused by Licensee's activities.

e. Licensors retains, reserves, and shall continue to enjoy the use of the License Area for any and all purposes which do not interfere with, obstruct the use of or prevent the use by Licensee. Notwithstanding anything to the contrary herein, Licensors hereby reserves the right to use the License Area for any use not inconsistent with Licensee's permitted use of the License Area.

f. It is understood that the License, rights, and privileges granted herein are nonexclusive, and Licensors reserves and retains the right to convey similar licenses, easements and rights to such other persons as Licensors may deem proper provided such similar licenses, easements and rights do not affect Licensee's License. Licensee hereby understands and agrees that this License Area is granted on a non-exclusive basis and that other third parties have been, and/or may be in the future, granted the right by Licensors to use the License Area and/or surrounding areas in a way that does not materially prevent or impair the use or exercise of the Temporary License rights granted hereby.

g. Licensee accepts the License Area and all aspects thereof in their "AS IS," "WHERE IS" condition, without warranties, either express or implied, "WITH ALL FAULTS," including but not limited to both latent and patent defects, the existence of hazardous materials, if any, and any other Licenses, rights, or other encumbrances affecting the License Area. Licensee hereby waives all warranties, express or implied, regarding the title, condition and use of the License Area, including, but not limited to any warranty of merchantability or fitness for a particular purpose. Without limiting the generality of the foregoing, the License Area is conveyed to Licensee subject to: (a) any state of facts which an accurate ALTA/ASCM survey (with Table A items) or physical inspection of the License Area might show, (b) all zoning regulations, restrictions, rules and ordinances, building restrictions and other laws and regulations now in effect or hereafter adopted by any governmental authority having jurisdiction; and (c) reservations, Licenses, rights-of-way, covenants, conditions, restrictions, encroachments, liens, and

encumbrances and all other matters of record or enforceable at law or in equity. Licensee must obtain any and all consents, approvals, permissions, and agreements to cross, encumber or encroach upon any other licenses, easements or rights of others related to its use of the License Area.

h. Except for construction equipment and materials and products used in rehabilitation of the system, Licensee agrees not to generate, store, dispose of, release, or use any Hazardous Substances on the Licensor Property. As used in this Agreement, the term "Hazardous Substances" means all hazardous and toxic substances, wastes or materials, including without limitation, hydrocarbons (including naturally occurring or man-made petroleum and hydrocarbons), flammable materials, explosives, urea formaldehyde insulation, radioactive materials, biologically hazardous substances, PCBs, pesticides, herbicides, and any other kind and/or type of pollutants or contaminants (including, without limitation, asbestos and raw materials which include hazardous constituents), sewage sludge, industrial slag, solvents and/or any other similar substances or materials which, because of toxic, flammable, ignitable, explosive, corrosive, reactive, radioactive, or other properties may be hazardous to human health or the environment and/or are included under, subject to or regulated by any Hazardous Waste Laws. Licensee agrees to immediately notify Licensor of any leaking or spillage of Hazardous Substances on the Licensor Property. Licensee shall be exclusively liable for all cleanup and remediation costs thereof.

As used in this Agreement, the term "Hazardous Waste Laws" means any and all present and future applicable (i) federal, state and local statutes, laws, rules or regulations governing Hazardous Substances; (ii) judicial or administrative interpretations thereof, including any judicial or administrative orders or judgments; and (iii) ordinances, codes, plans, injunctions, decrees, permits, demand letters, concessions, grants, franchises, licenses, agreements, notices, or other governmental restrictions, relating to the protection of the public health, welfare, and the environment, or to any actual, proposed or threatened storage, holding, existence, release, emission, discharge, spilling, leaking, pouring, pumping, injection, dumping, discarding, burying, abandoning, generation, processing, abatement, treatment, removal, disposition, handling, transportation or other management of any Hazardous Substance or any other activity or occurrence that causes or would cause any such event to exist

i. Licensee shall keep the Licensor Property free from any liens arising out of any work performed, materials furnished, or obligations incurred by, through, for or under Licensee,

and shall indemnify, hold harmless and agree to defend Licensor, to the extent permitted by Michigan law, from any liens that may be placed on the Licensor Property pertaining to any work performed, materials furnished or obligations incurred by, through, for, or under Licensee or any of Licensee's agents, servants, employees, consultants, contractors and subcontractors (collectively, "Licensee's Agents").

j. Prior to entering onto the License Area, Licensee shall maintain, or shall cause to be maintained, policies which, at a minimum, provide Licensor the protections set forth below. Additionally, Licensee will ensure that prior to entering onto the License Area or the Licensor Property, all of Licensee's Agents and other such parties who assist with the License Activities or use of the License Area are either covered under the terms of Licensee's insurance policies, or that each obtain similar policies and which, at a minimum, provide Licensor the same protections. Such insurance may be carried under a "blanket" policy or "blanket" policies covering other properties of Licensee and may be subject to such self-insured retentions as Licensee may desire. Prior to any entry onto, or construction within, the License Area by Licensee, Licensor shall have the right to approve Licensee's insurance and Licensee shall (i) provide certificates to Licensor evidencing such insurance in a form acceptable to Licensor, and (ii) cause its consultants, contractors, and subcontractors to add Licensor as an additional insured.

i. A commercial general liability insurance policy insuring Licensee's interests against claims for personal injury, bodily injury, death, property damage occurring on, in or about the License Area and the ways immediately adjoining the License Area, with a "Combined Single Limit" covering personal injury liability, bodily injury liability and property damage liability) of not less than Two Million Dollars (\$2,000,000.00). The coverage set forth above shall be primary coverage and shall apply specifically to the License Area, the Licensor Property, and adjacent areas.

ii. All Workers' Compensation and Employers' Liability Insurance required under applicable Workers' Compensation Acts and/or applicable law. In addition, Licensee shall maintain Employers' Liability Insurance with a minimum limit of not less than Five Hundred Thousand Dollars (\$500,000.00).

iii. Automobile Liability Insurance with a minimum limit of not less than Two Million Dollars (\$2,000,000.00) Combined Single Limit per accident, and coverage applying to "Any Auto."

Licensee hereby waives and shall cause their respective insurance carriers to waive any and all rights of subrogation, recovery, claims, actions or causes of action against Licensor for any loss or damage with respect to the Licensor Property, including rights, claims, actions and causes of action based on negligence, which loss or damage is (or would have been, had the insurance required by this Agreement been carried) covered by insurance.

k. To the extent permitted by Michigan law, Licensee shall indemnify, release, defend, and hold Licensor and its employees, officers, divisions, subsidiaries, partners, members and affiliated companies and entities and its and their employees, officers, shareholders, members, directors, agents, representatives, and professional consultants and its and their respective successors and assigns (collectively, the "Indemnitees") harmless from and against any loss, damage, injury, accident, fire, or other casualty, liability, claim, cost, or expense (including, but not limited to, reasonable attorneys' fees) of any kind or character to any person or property, including the property of the Indemnitees (collectively the "Claims", or a "Claim") from or by any unaffiliated third party, Licensee, and/or Licensee's Agents, that occurs during the term of this Agreement and arises from and relates to this Agreement, including: (i) any use of the License Area, Licensor Property, and/or adjacent areas by Licensee or Licensee's Agents, (ii) any act or omission of Licensee or any of Licensee's Agents, (iii) any bodily injury, property damage, accident, fire or other casualty to or involving Licensee or Licensee's Agents and its property on the License Area, Licensor Property, and/or adjacent areas, (iv) any violation or alleged violation by Licensee or Licensee's Agents of any law or regulation now or hereafter enacted, (v) the failure of Licensee to maintain the License Area in a safe condition, (vi) any loss or theft whatsoever of any property or anything placed or stored by Licensee or Licensee's Agents on or about the License Area, the Licensor Property, and/or adjacent areas, (vii) any breach by Licensee of its obligations under this Agreement, and (viii) any enforcement by Licensor of any provision of this Agreement and any cost of removing Licensee or Licensee's Agents or their property or equipment from the License Area or restoring the same as provided herein; provided, however, that the foregoing indemnity shall not apply to the extent any such Claim is ultimately established by a court of competent jurisdiction to have been caused solely by gross negligence or willful misconduct of the Indemnitees. Licensee, as a material part of the consideration of this Agreement, waives all claims or demands against Licensor and the other Indemnitees for any such loss, damage, or injury of

Licensee or Licensee's property. The indemnity provided by Licensee in favor of the Indemnitees in this Agreement shall not require payment as a condition precedent.

l. This License may not be assigned, whether voluntarily or by operation of law, and Licensee shall not permit the use of the License Area, or any part hereof, except in strict compliance with the provisions hereof, and any attempt to do so shall be null and void.

m. The Licenser Property is and shall at all times remain the private property of Licenser. The use of the Licenser Property is permissive and shall be limited to the express purposes contained herein by Licensee. Neither Licensee, nor its successors or assigns, nor the public shall acquire nor be entitled to claim or assert any rights to the Licenser Property beyond the express terms and conditions of this Agreement.

n. This instrument contains the entire agreement between the parties relating to the rights herein granted and the obligations herein assumed. Any oral representations or modifications concerning this instrument shall be of no force and effect. Any modification of this License must be in writing and must be signed by the party to be charged.

o. This License is made and entered into in the State of Michigan and shall in all respects be interpreted, enforced and governed under the laws of the State of Michigan. The language of all parts of this License is intended to and, in all cases, shall be construed as a whole according to its fair meaning, and not construed strictly for or against any party.

p. It is further understood and agreed between the parties that the terms and conditions herein are contractual and are not a mere recital and that there are no other agreements, understandings, contracts, or representations between Licenser and Licensee in any way related to the subject matter hereof, except as expressly stated herein.

q. If any provision of this License or its application to any person or circumstance shall to any extent be invalid or unenforceable, the remainder of this License shall not be affected and shall remain valid and enforceable to the fullest extent permitted by law.

r. It is understood and agreed between the parties that a failure by either party to fulfill a condition or term set forth in this License shall not result in extinguishment of the license rights granted herein or constitute a waiver of such term or condition.

IN WITNESS WHEREOF, the Licensor and Licensee have here unto affixed their signatures this 18th day of March, 2025.

LICENSOR:

**CORPORATION OF THE PRESIDING BISHOP
OF THE CHURCH OF JESUS CHRIST OF
LATTER-DAY SAINTS, A UTAH
CORPORATION SOLE**

By: Walter D. Sangster (L.S.)
Walter Sangster

Its: Authorized agent

ACKNOWLEDGEMENT

STATE OF Michigan)
) SS.
COUNTY OF Oakland)

On this 18 day of March, 2025, before me, a Notary Public in and for said County, personally appeared Walter Sangster to me personally known, who being by me severally duly sworn did say that he is the **Authorized Agent** of the **CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, A UTAH CORPORATION SOLE**, a corporation created and existing under the laws of the State of Utah, and that the said License was signed and sealed in behalf of said corporation by authority of its Board of Directors, and the said acknowledged the said instrument to be the free act and deed of the said Corporation.

KATHLEEN MOLCZYK
NOTARY PUBLIC, STATE OF MI
COUNTY OF LAPEER
MY COMMISSION EXPIRES Nov 1, 2030
ACTING IN COUNTY OF Oakland

Kathleen Molczyk
Kathleen Molczyk Notary Public
Lapeer County, - Mi
My Commission Expires: 1-1-2030
Acting in County of Oakland

**EVERGREEN-FARMINGTON SANITARY
DRAIN DRAINAGE DISTRICT**, acting through its
Drainage Board

_____, Notary Public
_____, County, - _____
My Commission Expires: _____
Acting in County of _____

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
JSP/tjr/KAM

ATTACHMENT "A"

**Project: EFSDS Southfield Rouge Arm Area 7 Sanitary Sewer Lining
Parcel No. 2025-01**

Church of Jesus Christ of Latter-Day Saints
50 E. North Temple Street
Salt Lake City, Utah 84150
Sidwell No. 24-28-377-012

1. Any established lawn area damaged or disturbed by the Licensee during installation and use of the License Area shall be restored by Licensee.
2. It is agreed that the parking lot/yard lights on the subject property shall be preserved and protected during construction by the Licensee. If said lights are damaged or removed during construction the same shall be repaired and/or replaced by the Licensee using like materials and including any underground electrical service.
3. It is agreed that the Licensee shall preserve and protect the asphalt parking area and if any portion of the asphalt driveway and/or parking lot areas including existing sealcoating and/or parking paint stripes located on the subject property is damaged by the Licensee during rehabilitation by the Licensee said damaged area shall be replaced by the Licensee with like materials and to matching thickness. Said damaged areas shall be sawcut and properly compacted and if there is any damage to the concrete curbing portions the same shall be replaced/repared to existing expansion joints.
4. It is agreed that the Licensee shall sweep or snow plow the License Area weekly through the parking lot to maintain access. It is agreed that there shall be no construction activities across the parking lot area on any Sunday. It is agreed that the designated 8 parking spots may be utilized by the Licensee seven days a week until expiration of this document (see attached map).
5. It is agreed that all existing trees over 4" within the temporary construction easement shall be preserved and protected, it is also agreed that any trees and or brush within the temporary construction easement under 4" maybe removed and not replaced. If there are any trees over 4" in diameter that are damaged or removed within the License Area due to the rehabilitation project, the Licensee agrees to replace them upon completion of the project. Replacement trees shall be 8-10 feet tall pine or spruce trees, or 2 ½-inch diameter deciduous trees of available nursery stock. These replacement trees will be planted on the landowner's property by the Licensee.

6. It is agreed by both parties that this temporary construction easement shall commence March 24, 2025, and shall expire no later than December 30, 2025. Any necessary restoration shall be completed no later than June 30, 2026.

PROPERTY OWNER(S)

INITIAL(S): ML

DATE: 3/18/2025

JSP/tjr/KAM

384.94'

24-28-377-010

105.23'

384.92'

24-28-377-011

105.23'

Point of Beginning

61.95'

384.92'

79.84'

254.74'

79.17'

32.99'

384.94'

14

15

"SUPERVISOR'S
DEERLICK PARK SUB"
24-28-377-012

N-S $\frac{1}{4}$ LINE
OF SEC. 28

524.84'

7.00'

HUNTERS LANE

524.37'

384.92'

391.92'

NINE MILE ROAD

27.00'

10/02/2024

23190 W 9 Mile



Designated Parking spots

Proposed Temporary Easement

SUPERVISOR'S DEERLICK PARK SUB

W 9 Mile Rd

GOLFVIEW HOMES SUB

- 2 Foot Contours
- 5 Foot Contours
- FEMA Base Flood Elevations
- FEMA Cross Sections
- 100 yr - FEMA Floodplain
- 100 yr (detailed) - FEMA Floodplain
- 500 yr - FEMA Floodplain
- FLOODWAY - FEMA Floodplain

Disclaimer: The information provided herewith has been compiled from recorded deeds, plats, tax maps, surveys and other public records. It is not a legally recorded map or survey and is not intended to be used as one. Users should consult the information sources mentioned above when questions arise. FEMA Floodplain data may not always be present on the map.



David Coulter
Oakland County Executive

Date Created: 1/9/2025



1 inch = 100 feet

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**

MEMORANDUM

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

FROM: Lesli Maes, P.E., Operations Engineer

SUBJECT: Walnut Lake 1 Pump Station Controls and Pump Improvements Project

DATE: March 25, 2025

Staff is recommending a capital improvement project for the Walnut Lake 1 Pump Station (WLPS1), located in West Bloomfield. This pump station was originally constructed in 1967 and had major updates to the facility completed in 2004. Based on equipment age, condition, and performance, multiple assets have been identified as needing replacement. The proposed project will consist of replacing pumps, associated valves and operators, updating the controls logic, and performing electrical improvements.

The proposed WLPS1 Controls and Pump Improvements project has a preliminary estimated cost of \$680,000. Staff is requesting approval of an initial project budget of \$180,000 to complete the study and design phase for the station. The overall project cost will be revised and presented to the Board for approval prior to the construction phase.

Fishbeck, Inc. has provided an engineering services proposal for the first phase of this proposed project as detailed in the attached proposal for \$27,300.

Requested Action: 1.) Approve the Walnut Lake 1 Pump Station Controls and Pump Improvement project for the budgeted amount of \$180,000 utilizing funds from the Capital Improvement reserves and 2.) authorize Fishbeck, Inc. to proceed with the proposed engineering services for a not to exceed amount of \$27,300.

February 24, 2025

Evans Bantios
Chief Engineer – Wet Weather Operations
Oakland County Water Resources Commissioner's Office
One Public Works Drive
Waterford, MI 48328

Proposal for Professional Engineering Services
Walnut Lake No. 1 Pump Station – 2025 Basis of Design Update

Fishbeck is pleased to submit the following proposal to assist WRC in preparing a revised Basis of Design report for the Walnut Lake No. 1 Pump Station (WLPS1).

Background

WLPS1, originally constructed in 1967, was designed to convey the flow from the Walnut Lake Arm sewer west to the Farmington Interceptor. In 2004, a project was completed that replaced the existing pump station and installed a new 22,000-foot-long force main east to the Evergreen Interceptor to capitalize on additional capacity due to improvements in that portion of the system, including modifications to the CSO regulators at the Retention Treatment Basin facilities (RTBs). The pump station was designed with two sets of three pumps: two smaller pumps and one large pump for each direction.

The existing wet well consists of an east and west side, isolated by a slide gate that was intended for the pump station to operate as two "separate" pump stations for each of the force mains. Dewatering pumping and piping were in each half of the wet well, so it could be isolated and maintained individually. A project was completed in 2009 to address problems in the wet well which included removing the dewatering pumps and piping and pouring a new concrete fillet in the wet well to direct the flow to the pump suction piping.

In 2020, a project was completed to add to the eastern force main that would then extend directly to the Bloomfield Village RTB. Flow testing completed at that time indicated no changes were necessary for the existing pumps to work with the new force main extension.

The pump station is currently operated in accordance with the 2021 memo which updated the Cohesive Operating Protocol for the Evergreen-Farmington Post-Phase 1 Corrective Action Plan New Facilities. This established sending normal discharge to the Evergreen Interceptor in dry weather. During wet weather conditions, if downstream levels in the Evergreen Interceptor are high, the flow is sent west to the Farmington Interceptor. If the level in the Farmington Interceptor is high, then the flow is sent to the east, and bypasses the Evergreen Interceptor and discharges directly to the Bloomfield Village RTB.

Despite having the hydraulic capacity to adequately perform, the existing pumping arrangement is no longer ideal for the lower flow rates seen at the pump station, and additional operational challenges are becoming problematic.

The number of manual isolation valves at the pump station required to make changes to the direction the pumps discharge causes difficulty when crews need to react to storms hitting different parts of the service area.

The pump station is also subject to clogging due to heavy ragging and grease. This leads to pumps losing function, and excessive work for crews to operate valves to restore flow and perform maintenance.

The intent of the study will be to review the incoming station flows and select pumps capable of pumping the necessary range of flow through either force main, with simplified process piping valving. This allows for automation of the pump station to meet the three operating conditions established in the 2021 Memo for Cohesive Operating Protocol. The information will be documented in a new Basis of Design for the WLPS1 to be used for upcoming station rehabilitation.

Scope of Services

Based on our January 8, 2025, meeting and follow up phone discussions, it was agreed the first phase will be to prepare a Basis of Design (BOD) report reviewing the options for the pump replacement, size of pumps, and associated design and construction costs.

Our scope of services to develop the BOD includes the following:

1. Verify current flows into the PS from the upstream sewers through model information provided by Applied Science, Inc. (ASI).
2. Complete 3D scanning of the exterior and interior of the pump station and set up a point cloud viewer for the facility.
3. Develop revised simplified pump and piping configuration and analyze in PipeFlo hydraulic modeling software.
4. Identify multiple pump selections capable of meeting the design intent, with a focus on dry weather flow pumping efficiency, ability to meet cleansing velocities in each force main, and non-clog capabilities.
5. Perform feasibility assessment of adding VFDs to the pump station and electrical evaluation of new pumping equipment and valve actuators.
6. Develop design and construction costs associated the proposed improvements.
7. Prepare a draft BOD report for WRC review.
8. Finalize the BOD report based on the WRC comments.

Upon completion of the BOD, Fishbeck will be prepared to move into Phase 2, Design and Bidding. This letter focuses on Phase 1, Basis of Design Report, only; a separate design fee will be prepared prior to Phase 2, Design and Bidding.

Professional Services Fees

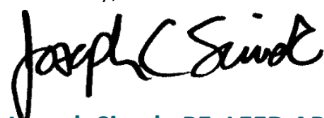
Fishbeck proposes to perform the outlined scope of services for a lump sum fee of Twenty-Seven Thousand Three Hundred Dollars (\$27,300). A fee breakdown table is attached.

Authorization

This work will be performed under the terms and conditions of existing Professional Service Contract No. 006490. If you concur with our scope of services, please issue a Purchase Order and return to Maria's attention.

If you have any questions or require additional information, please contact Joe at 734.888.8753 or jsiwek@fishbeck.com, or Maria at 248.324.1228 or mesedki@fishbeck.com.

Sincerely,



Joseph Siwek, PE, LEED AP
Senior Water and Wastewater Engineer



Maria E. Sedki, PE
Vice President/Senior Civil Engineer

Attachments
By email

Fishbeck Estimated Work Hours and Fees

Project Name: **Walnut Lake No. 1 Pump Station Basis of Design Update**
 Project Location/Client: **West Bloomfield Township, MI Oakland County WRC**
 Date: **2/21/2025**
 Prepared By: **JCS**

	QA/QC	PM/ Sr. Process Engineer	Electrical Engineer QA/QC	Sr. Electrical Engineer	Senior Estimator	Engineer	Senior Surveyor	Survey Specialist	Production Support	Total Hours	Labor Fee	Expenses	Totals
WRC FY24 Labor Rate	Sedki	Siwek	JC	TD/MS	MA	JB			NC				
	\$242.00	\$242.00	\$242.00	\$202.00	\$202.00	\$165.00	\$165.00	\$133.00	\$98.00				
Data Analysis										53	\$ 10,253.00	\$ 100.00	\$ 10,353.00
Review Existing Drawings		2				8				10	\$ 1,804.00		\$ 1,804.00
Site Visit		3				3				6	\$ 1,221.00	\$ 100.00	\$ 1,321.00
Review ASI Data / Reports		2				4				6	\$ 1,144.00		\$ 1,144.00
PipeFlo Model and Scenarios		4				8				12	\$ 2,288.00		\$ 2,288.00
Electrical Impact		2	2	8						12	\$ 2,584.00		\$ 2,584.00
Meetings (2 ea)		2		1		2			2	7	\$ 1,212.00		\$ 1,212.00
										0	\$ -		\$ -
Digital Scanning										32	\$ 4,768.00	\$ 200.00	\$ 4,968.00
Walnut Lake No. 1 - Site Control / Mapping / Bldg. Scan							16	16		32	\$ 4,768.00	\$ 200.00	\$ 4,968.00
										0	\$ -	\$ -	\$ -
Report										65	\$ 11,874.00	\$ 100.00	\$ 11,974.00
Draft Report	2	8				20			4	34	\$ 6,112.00		\$ 6,112.00
Cost Opinion		1			6	2				9	\$ 1,784.00		\$ 1,784.00
Meet with WRC		2				2				4	\$ 814.00	\$ 100.00	\$ 914.00
Finalize Report	2	4				8			4	18	\$ 3,164.00		\$ 3,164.00
Total Hours	4	30	2	9	6	57	16	16	10	150			
Total Fee											\$ 26,895.00	\$ 400.00	\$ 27,295.00

**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: Sanitary Sewer Rehabilitation
Walnut Lake Road and Inkster Road, Bloomfield Township

DATE: March 25, 2025

The Water Resources Commissioner's office (WRC) has identified segments of sanitary sewer in the Evergreen-Farmington Sanitary Drain Drainage District that are in need of rehabilitation. The sewer lines, highlighted on the attached map, are 15-inch and 21-inch reinforced concrete pipes located at the intersection of Walnut Lake Road and Inkster Road, in Bloomfield Township.

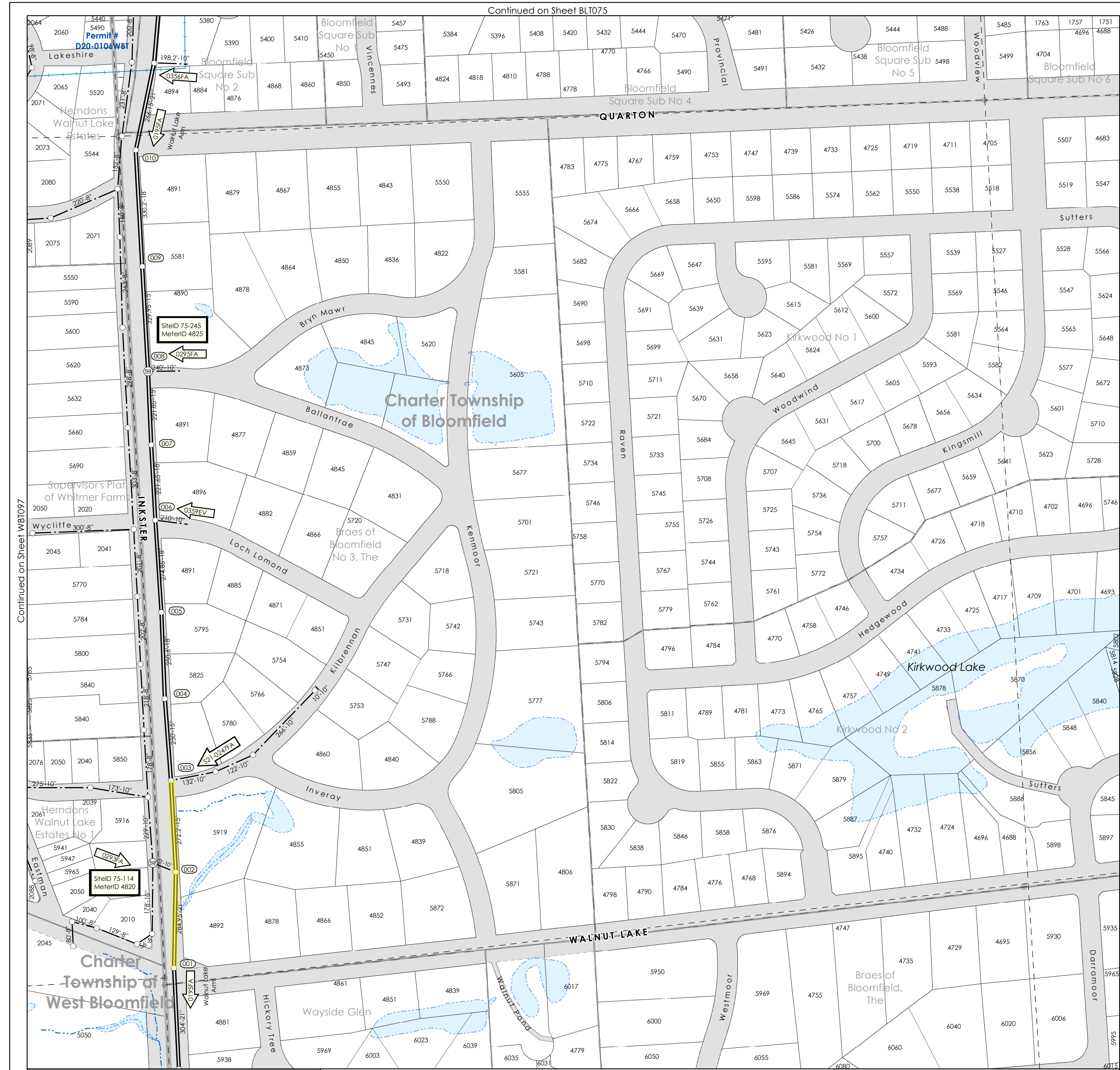
The segments of sewer were constructed in 1966 as a part of the Walnut Lake Arm. Recent inspection videos of the segments show a sag approximately 30 feet in length as well as deteriorating pipe wall.

Hubble, Roth & Clark, Inc. (HRC), an engineering and architectural design firm, has provided a proposal to design the rehabilitation of this portion of sewer. Attached to this memo is HRC's proposal. It is recommended that the engineering design services be awarded to HRC in conformance with its proposal for an amount not to exceed \$69,900. This amount will cover the cost of the design of the sewer rehabilitation. The Drainage Board will be advised at a later date of 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:	\$69,900
WRC Engineering:	<u>\$ 8,000</u>
Total:	\$77,900

RECOMMENDED ACTION: Add this rehabilitation project to the capital improvement plan with a design budget of \$77,900 and award the engineering services contract to Hubble, Roth & Clark, Inc. for a not-to-exceed amount of \$69,900.



1"=200'

DISCLAIMER:
The information displayed in this map is compiled from recorded deeds, plats, tax maps, surveys and other public records. Although this information is intended to accurately reflect public information, it is not a legally recorded map or survey and is not intended to be used as one. Users should consult primary/original information sources where appropriate.

Continued on Sheet BLT119

One Public Works Drive
Building 95 West
Waterford, Michigan
48328-1907

WRC
WATER RESOURCES COMMISSIONER
Jim Nash

SANITARY/COMBINED SEWER LEGEND		
Sewer Gravity Main	Sanitary/Combined Sewer Legend	Sewer Vault
San Interceptor	Untreated Outfall	Vault
Prop San Interceptor	Treated Outfall	Retention/Detention Vault/Basin
Private or Maint. by Others Interceptor	WWTP	Sewer Leach Field
Aband San Interceptor	Wastewater Treatment Plant	Sewer Containment
San Trunk	Community Septic	Containment Tank
San Lateral	Retention Treatment Basin	Grill Chamber
Treated Effluent	Sewer Siphons	Drain Field
Prop San Trunk or Lateral	San Siphon	Force Main/Pressure Sewer Structures
Prop San Linear Storage	Prop San Siphon	Retention Basin
Aband San Trunk or Lateral	Aband San Siphon	Lift Station
Private or Maint. by Others San	Force Main/Pressure Sewer Main	Online Grinder Pump
Prop Private or Maint. by Others San	San FM Interceptor	Proposed Grinder Pump
Prop Private or Maint. by Others San	Prop San FM Interceptor	Private Grinder Pump
Combined Gravity Main	San FM Trunk	Access Manhole
Comb Interceptor	San FM/PS Lateral	Access Point
Private or Maint. by Others Comb	Treated Effluent	Normally Open Valve
Proposed Private or Maint. by Others	Prop San FM/PS Trunk or Lateral	Normally Closed Valve
Virtual Sanitary/Combined Sewer Line	Aband San FM/PS Trunk or Lateral	Emergency Bypass Valve
Gravity Structures	Private or Maint. by Others San FM/PS	Surge Relief
Standard MH	Prop Private or Maint. by Others San FM/PS	Attest Valve/Attest Vacuum Valve
Standard MH w/ Rume	Combined Non-Gravity Main	Blowoff Valve
Monitoring Manhole	Comb FM Interceptor	Check Valve
Special Use MH	Comb FM Trunk	Cleanout
Junction Chamber	Treated Effluent	Sewer Utility Crossing
Siphon Structure	Aband Comb FM Interceptor	Municipal District
Catch Basin	Comb FM/PS Lateral	Parcels
Rear Yard Inlet	Aband Comb FM/PS Trunk or Lateral	Subdivision Plat Boundary
Standard Inlet	Private or Maint. by Others Comb FM/PS	QuarterGrid
Flow Meter	Active Flow Regulator	Road R.O.W.
Flow Level Monitoring Site	Passive Flow Regulator	
STP Monitoring Well	Active Division Chamber	
Abandoned STP Monitoring Well	Passive Division Chamber	
	Active Weir	
	Passive Weir	
	Restrictor/Orifice	

NW
Section 30

BLOOMFIELD
SANITARY / COMBINED SEWER SYSTEM
Township of Bloomfield

SHEET
118

Map Printed Jan 04, 2023



March 11, 2025

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

Attn: Mr. Phil Kerby, P.E., Operations Engineer
Re: Evergreen-Farmington Sanitary Drain (EFSD)
Proposal for Design Engineering Services
Inkster Road Sewer Lining and Sag Repair

HRC Job No. 20250117

Dear Mr. Kerby:

As requested, HRC is pleased to provide this proposal for engineering assistance related to the EFSD sewer lining and sag repair on Inkster Road north of Walnut Lake Road for the year 2025. We would propose that these services be provided under the terms and conditions of our existing Engineering Services Contract. Our scope of work is based on discussions with your office, our design background of the subject project and our experience with similar sewer rehabilitation and repair projects. Our services would include design engineering of the work as described herein.

Background

The office of the Oakland County Water Resources Commissioner (OCWRC) owns, operates, and maintains the Evergreen-Farmington Sanitary Drain (EFSD), which is located in Oakland County and conveys sanitary sewage from many local communities. It is our understanding that OCWRC would like to complete cured-in-place pipe (CIPP) lining for the following sewers on the east side of Inkster Road crossing Walnut Lake Road: 272 feet of 15" diameter sewer (BLT118003-002), 285 feet of 21" diameter sewer (BLT118002-001) and potentially 304 feet of 21" diameter sewer (BLT118001-BLT119009). OCWRC also indicated that the 21" diameter sewer just north of Walnut Lake Road (BLT118002-001) will require an open cut excavation repair to an approximately 50 foot long 100% sag in the pipe that was identified through sewer televising. It is HRC's understanding that Mr. Phil Kerby, P.E. will be the WRC Project Engineer and, as such, will be the primary point of contact for OCWRC. As part of this proposal, HRC will complete the design engineering as requested. Our proposal for this project is as follows:

Scope of Services – Design Engineering

- **Topographic Survey**

This task will include limited topographic survey and utility drops necessary for the contract drawings. Detailed topographic survey and existing utility review will be completed in the area of the proposed open cut excavation repair on the east half of the Inkster Road right-of-way north of Walnut Lake Road. Additional limited topographic survey may also be needed for the bypass pumping plan.

- **Soil Borings and Geotechnical Assistance**

OCWRC will provide any available historical soil boring information to HRC. HRC will work with a geotechnical subconsultant (G2 Consulting Group or other geotechnical firm identified by OCWRC) to complete the necessary geotechnical investigation, soil boring(s) and provide assistance with the open cut excavation design.

- **Preparation of Bid Documents**

This task will include preparing contract documents for bidding purposes in order to select a qualified contractor to complete the sewer lining and sag repair. HRC will attend and prepare summary notes for the kickoff meeting and up to two (2) design meetings as required. The sewer rehabilitation and repair quantities included in the bid

documents will be estimated based on the EFSD sewer segments identified by OCWRC. The bid package will be prepared as invite only bid to OCWRC blanket contractors. Plans will be prepared using OCWRC standard details and all necessary details for the project drawings. Project specifications will be prepared using OCWRC standard contract documents and HRC specifications. HRC will review the existing utilities in the area of the open cut excavation and determine whether conflicts exist. OCWRC will provide flow info for the EFSD sewers and HRC will prepare a bypass pumping plan for the contractor to implement. The EFSD sewers currently identified by OCWRC for lining are located in Bloomfield Township. HRC will review the required permits for Bloomfield Township, the Road Commission for Oakland County (RCOC), OCWRC and the Department of Environment, Great Lakes, and Energy (EGLE) and incorporate the permits in the plans and specifications.

- **Bidding Administration Assistance**

HRC will prepare contract documents for purchase (if required) to prospective bidders, answer bidder questions, prepare addenda, attend a bid opening, assist the OCWRC in evaluating bids that are received, generate a bid tabulation, and review a Notice of Intent to Award letter.

SERVICES NOT INCLUDED

- Structural Design for Deep Foundation Pipe Support (Piles, Helical Piers, Undercut with Reinforced Aggregate, etc.) Due to Poor Soils
- Easement Procurement
- Resident Communications
- Construction Engineering
 - Contract Administration
 - Construction Survey Layout
 - Full-Time Construction Observation
 - Review of Contractor Submitted Information
 - Daily Correspondence and/or Coordination with OCWRC Observation Staff
 - Preparation of Pay Estimates and Change Orders
 - Preparation of Project Punch List
 - Preparation of Record Drawings

Fees for Services

Based on the scope of services described above, our understanding of the necessary effort, and OCWRC's expectations, we propose to perform this work for a not-to-exceed budget amount of **\$69,900**. A breakdown of costs is included as an attachment to this proposal.

This amount will not be exceeded without a change in project scope and prior written authorization. We propose to invoice the OCWRC for the actual hours incurred based on our standard hourly billing rates in our as-needed contract with OCWRC.

An additional proposal for construction engineering will be provided once the design and bidding is complete. It is anticipated that all work will be located with the public road ROW, but should easements be needed, an additional proposal will be prepared for that work as well.

Anticipated Project Schedule

Based on discussions with OCWRC staff, OCWRC is looking to bid the project in Summer 2025 and complete the sewer lining and sag repair in 2025 or 2026 depending on budget availability.

Personnel

Daniel Mitchell, P.E., President, will serve as Principal-in-Charge of this project and provide oversight. This project will be managed by Christopher N. Ross, P.E., with oversight by Karyn Stickel, P.E. HRC will provide additional staff as needed from our Asset Management and Survey Departments.

If this proposal is accepted, please sign and return a scanned copy of this proposal which will serve as our formal authorization to proceed.

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

Very truly yours,

HUBBELL, ROTH & CLARK, INC.



Daniel W. Mitchell, P.E.
President



Christopher N. Ross, P.E.
Manager

CR

Attachments: (1) Cost Table
(2) OCWRC Quarter Section Map

pc: HRC; K. Stickel, File
OCWRC; C. Cox, File

Accepted By:

Signature: _____

Written Name: _____

Title: _____

Dated: _____

COST ESTIMATE - ESTIMATED LABOR AND FEES
EFSD Inkster Road Sewer Lining and Sag Repair
Design Engineering

March 11, 2025
HRC Job No. 20250117

Task Description	Senior Associate / Partner *		Manager *		Project Engineer *		Grad Engineer I *		Total Hours	TOTAL COST
	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost		
<i>Design Engineering</i>										
(1) Kickoff and (2) Design Meetings	4	\$ 800.00	0	\$ -	16	\$ 2,240.00	16	\$ 1,600.00	36	\$ 4,640.00
Topographic Survey										\$ 10,000.00
Soil Borings (G2) and Geotech Assist.										\$ 10,000.00
Plans and Specifications	12	\$ 2,400.00	0	\$ -	64	\$ 8,960.00	160	\$ 16,000.00	236	\$ 27,360.00
Utility Coordination	4	\$ 800.00	0	\$ -	8	\$ 1,120.00	16	\$ 1,600.00	28	\$ 3,520.00
Bypass Pumping Plan	4	\$ 800.00	0	\$ -	16	\$ 2,240.00	24	\$ 2,400.00	44	\$ 5,440.00
Permitting	4	\$ 800.00	0	\$ -	8	\$ 1,120.00	24	\$ 2,400.00	36	\$ 4,320.00
Bidding Administration Assistance	4	\$ 800.00	0	\$ -	16	\$ 2,240.00	16	\$ 1,600.00	36	\$ 4,640.00
	32	\$ 6,400.00	0	\$ -	128	\$ 17,920.00	256	\$ 25,600.00	416	\$ 69,920.00

*Billable rates shown are for estimating purposes only. Actual billed rates will be in accordance with the fee schedule included in our Engineering Services Contract.

TOTAL ESTIMATED LABOR COST (ROUNDED) \$ 69,900.00

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. 36

February 1, 2025 to Feb 28, 2025

Department No. : 6010101
Fund No. : FND84410
Project No. : PRJ-17452

Account No. : 730352
Program No. : PRG149015
Activity : FAC
Vendor No. : 23191
Contract No. : 6628
Date of Contract : 2/2/2022
Completion Date : 8/13/2027

Contractor :
Walsh Construction Company II, LLC
3031 W Grand Blvd, Suite 640
Detroit, MI 48202

Original Contract Amount: \$0.00

Previous Change Order Numbers: CO Nos. 1 through 9. \$50,512,444.14

Change Orders This Estimate Number: \$0.00

Total Net Change Orders: \$50,512,444.14

Adjusted Contract Amount: \$50,512,444.14

Subtotal To Date: (Sheet 2 of 3 Column 7) \$31,822,313.69

Less Deductions to Date: (Sheet 2 of 3 Column 7) \$0.00

Gross Estimate: (Work in Place) 63.00% \$31,822,313.69

Less Amount Reserved: (5% of Adjusted Contract Amount) \$2,525,622.21

Total Amount Allowed To Date: \$29,296,691.48

Less Previous Estimates: \$28,584,903.15

Net Payment Request To Be Paid To Contractor: \$711,788.33

Reserve Payment to Contractor \$0.00

Balance of Contract To Date ✓ \$18,690,130.45 Accounting Auditor: *BOR* 3/17/2025

Less Previous Transfers To Reserve: \$2,525,622.21

Amount of Current Transfer: \$0.00

Prepared by: *Charles J. Roarty, Jr.* for
Charles J. Roarty, Jr., P.E. - NTH Consultants

Date: 2025 03 04

Recommended by: *Joe Siwek*
Joe Siwek, P.E. - Consulting Engineer (Fishbeck)

Date: 3/4/2025

Recommended by: *Evangelos Bantios*
Evangelos Bantios, P.E. - Project Engineer

Date: 3-14-2025

Approved by: *Joel Brown*
Joel Brown, P.E. - Chief Engineer

Date: 3/18/2025

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 Design and Construction of the Southfield Sewer Lining Project
Southfield
Oakland County, Michigan**

Construction Estimate No. 4

February 7, 2025 to March 11, 2025

Department No.: 6010101
Fund No.: 82410
Project No.: PRJ-17455

Account No.: 730352
Program No.: 149125
Activity: ENGCON
Vendor No. 41132
Contract No.: 11156
Date of Contract: 9/24/2024
Completion Date: 12/20/2025

Contractor:
SAK Construction
864 Hoff Road
O'Fallon, MO 63366

Original Contract Amount: \$7,387,461.00

Previous Change Order Numbers (none): \$0.00

Change Orders This Estimate Numbers (none): \$0.00

Total Net Change Orders: \$0.00

Adjusted Contract Amount: \$7,387,461.00

Subtotal To Date: (Sheet 2 of 2 Column 7) \$263,687.18

Less Deductions to Date: (Sheet 2 of 2 Column 7) \$0.00

Gross Estimate: (Work in Place) 3.57% \$263,687.18

Less Amount Reserved: (10% of Gross Estimate) \$26,368.72

Total Amount Allowed To Date: \$237,318.46

Less Previous Estimates: *BCR* \$163,042.31

Net Payment Request To Be Paid To Contractor: \$74,276.15

Reserve Payment to Contractor \$0.00

Balance of Contract To Date *✓* \$7,123,773.82 Accounting Auditor: *BCR* 3/12/2025

Less Previous Transfers To Reserve: \$18,115.81

Amount of Current Transfer: \$8,252.91

Prepared by: *Scott Schultz*
Scott Schultz - Project Engineer

Date: 03/13/25

Recommended by: *Maria Sedki*
Maria Sedki, P.E. - Consulting Engineer

Date: 03/13/2025

Approved by: *Joel Brown*
Joel Brown, P.E. - Chief Engineer

Date: 3/14/2025

Approved by Board on: _____

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the Evergreen Farmington Sanitary Drain Ch20 (Maintenance)

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting

HP for Shawn Phelps

DATE: March 25, 2025

SUBJECT: Request for Approval of Invoices

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

Payable To	Ref No.	For	Amount
Fishbeck	SINV00326924	Inv# 449119 - Engineering Services - Proj #17455	1,210.00
		Subtotal - Project #17455	1,210.00
DLZ Michigan Inc	SINV00325017	Inv# 000403112 - Engineering Services - Proj #17458	1,696.00
		Subtotal - Project #17458	1,696.00
DLZ Michigan Inc	SINV00323396	Inv# 000403117 - Engineering Services - Proj #17554	1,169.43
		Subtotal - Project #17554	1,169.43
DLZ Michigan Inc	SINV00324200	Inv# 000403116 - Engineering Services - Proj #17555	36,477.76
		Subtotal - Project #17555	36,477.76
Fishbeck	SINV00327634	Inv# 448131 - Engineering Services - Proj #17579	7,182.40
Fishbeck	SINV00327636	Inv# 449825 - Engineering Services - Proj #17579	12,661.25
		Subtotal - Project #17579	19,843.65
Fishbeck	SINV00327634	Inv# 448131 - Engineering Services - Proj #17580	7,598.95
Fishbeck	SINV00327636	Inv# 449825 - Engineering Services - Proj #17580	11,990.00
		Subtotal - Project #17580	19,588.95
ADS LLC	SINV00322663	Inv# 35801-1124-A - Contracted Services	51,275.00
ADS LLC	SINV00322672	Inv# 35801-1224-A - Contracted Services	51,275.00
Dickinson Wright PLLC	SINV00327783	Inv# 2014993 - Contracted Services	12,173.29
Kotz Sangster Wysocki PC	SINV00326643	Inv# 616876 - Contracted Services	17,322.50
MacAllister Machinery Co Inc	SINV00322283	Inv# SD17041575 / Cust# 23596 / 34633 Thornbrook - Contracted Services	1,658.57
MacAllister Machinery Co Inc	SINV00324061	Inv# SD17064063 - Contracted Services	1,572.71
MacAllister Machinery Co Inc	SINV00324064	Inv# SD17069499 - Contracted Services	1,068.15
MacAllister Machinery Co Inc	SINV00326287	Inv# SD17099120 - Contracted Services	1,657.53
MacAllister Machinery Co Inc	SINV00326392	Inv# SD17113402 - Contracted Services	1,375.41
Orchard Hiltz and McCliment Inc (OHM)	SINV00322673	Inv# 83780 - Contracted Services	8,037.75
Orchard Hiltz and McCliment Inc (OHM)	SINV00322675	Inv# 84838 - Contracted Services	5,040.50
Orchard Hiltz and McCliment Inc (OHM)	SINV00327792	Inv# 85954 - Professional Services	1,714.83
		Subtotal	154,171.24
		Total	234,157.03

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the Evergreen Farmington Sanitary Drain Ch20 (Construction)

FROM: Shawn Phelps, Chief of Fiscal Services *HP for Shawn Phelps*
OCWRC Accounting

DATE: March 25, 2025

SUBJECT: Request for Approval of Invoices

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

Payable To	Ref No.	For	Amount
FK Engineering Associates	SINV00324926	Inv# 24-162-002 - Engineering Services - PRJ-17449	60,750.72
		Subtotal - Project #17449	60,750.72
Hubbell Roth and Clark Inc (HRC)	SINV00326081	Inv# 0224749 - Engineering Services - PRJ-17450	4,548.48
Hubbell Roth and Clark Inc (HRC)	SINV00326088	Inv# 0224750 - Engineering Services - PRJ-17450	1,955.28
		Subtotal - Project #17450	6,503.76
Fishbeck	SINV00325030	Inv# 449537 - Engineering Services - PRJ-17452	21,653.65
Neyer Tiseo & Hindo Ltd (NTH)	SINV00325019	Inv# 638473 - Engineering Services - PRJ-17452	4,932.52
PMA Consultants LLC	SINV00327959	Inv# 04582.00-1.0-25 - Professional Services - PRJ-17452	2,900.00
		Subtotal - Project #17452	29,486.17
		Total	96,740.65

2. Acacia Park CSO

AGENDA

DRAINAGE BOARD FOR THE ACACIA PARK CSO DRAIN

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2025
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$28,464.28
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

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

February 25, 2025

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 25th day of February 2025.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Linnie Taylor for 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 January 28, 2025, were presented for consideration. It was moved by Taylor, 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 from Sarah Stoolmiller, P.E., Civil Engineer III, dated February 25, 2025, requesting the Board adopt a release rate not-to-exceed 0.2 cubic feet per second per acre within the Drainage District for new development and redevelopment projects was presented. It was moved by Taylor, supported by Woodward, to adopt a release rate not-to-exceed 0.2 cubic feet per second per acre within the Drainage District for new development and redevelopment projects as presented.

ADOPTED: Yeas - 3
Nays - 0

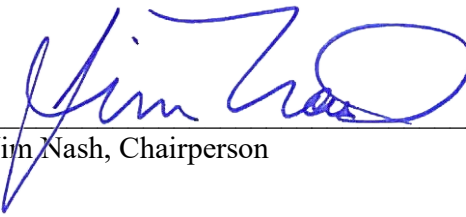
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$14,425.00 (as attached) was presented. It was moved by Taylor, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$14,425.00.

ADOPTED: Yeas - 3
Nays - 0

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

ADOPTED: Yeas - 3
Nays - 0

There being no further business, the meeting was adjourned.

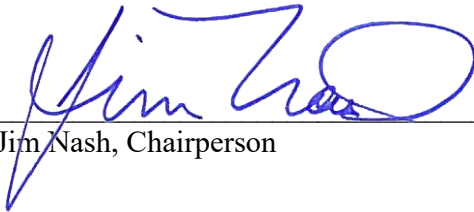


Jim Nash, Chairperson

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 Acacia Park CSO Drain, Oakland County, Michigan, held on the 25th day of February 2025, 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: February 25, 2025

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

HP for Shawn Phelps

DATE: March 25, 2025

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 March 18, 2025

G/L Date	Ref No.	Paid To	For	Amount
3/5/2025	V # SINV00324844	Fishbeck	Invoice # 449695 - Contracted Services - 2/28/25 - Proj 1-7646	\$ 9,862.75
			Project # 1-7646 Total	\$ 9,862.75
3/18/2025	V # SINV00327757	Shaw Service & Maintenance	Invoice # 910013610 - Contracted Services - Proj 1-7317	\$ 18,601.53
			Project # 1-7317 Total	\$ 18,601.53
			Grand Total	\$ 28,464.28

3. Birmingham CSO

AGENDA

DRAINAGE BOARD FOR THE BIRMINGHAM CSO DRAIN

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2025
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$9,495.82
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

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

February 25, 2025

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 25th day of February 2025.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Linnie Taylor for 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 January 28, 2025, were presented for consideration. It was moved by Taylor, 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 from Sarah Stoolmiller, P.E., Civil Engineer III, dated February 25, 2025, requesting the Board adopt a release rate not-to-exceed 0.2 cubic feet per second per acre within the Drainage District for new development and redevelopment projects was presented. It was moved by Taylor, supported by Woodward, to adopt a release rate not-to-exceed 0.2 cubic feet per second per acre within the Drainage District for new development and redevelopment projects as presented.

ADOPTED: Yeas - 3
Nays - 0


A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$9,288.00 (as attached) was presented. It was moved by Taylor, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$9,288.00.

ADOPTED: Yeas - 3
Nays - 0

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

ADOPTED: Yeas - 3
Nays - 0

There being no further business, the meeting was adjourned.

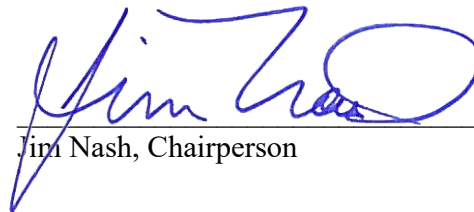


Jim Nash, Chairperson

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 Birmingham CSO Drain, Oakland County, Michigan, held on the 25th day of February 2025, 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 Birmingham CSO Drain Drainage District.



Jim Nash, Chairperson

Dated: February 25, 2025

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the BIRMINGHAM CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting

HD for Shawn Phelps

DATE: March 25, 2025

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 March 18, 2025

G/L Date	Ref No.	Paid To	For	Amount
3/14/2025	V # SINV00326793	Shaw Service & Maintenance	Invoice # 910012597 - Contracted Services	\$ 238.00
2/28/2025	V # SINV00322312	Johnson Controls Inc	Invoice # 1-135211756819 - Contracted Services	1,551.07
			Total	\$ 1,789.07
3/5/2025	V # SINV00324844	Fishbeck	Invoice # 449695 - Contracted Services - 2/28/25 - - Proj 1-7648	\$ 7,706.75
			Project # 1-7648 Total	\$ 7,706.75
			Grand Total	\$ 9,495.82

4. Bloomfield Village CSO

AGENDA

DRAINAGE BOARD FOR THE BLOOMFIELD VILLAGE CSO DRAIN

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2025
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$13,504.00
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 VILLAGE CSO DRAIN**

February 25, 2025

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 25th day of February 2025.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Linnie Taylor for 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 January 28, 2025, were presented for consideration. It was moved by Taylor, 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 from Sarah Stoolmiller, P.E., Civil Engineer III, dated February 25, 2025, requesting the Board adopt a release rate not-to-exceed 0.2 cubic feet per second per acre within the Drainage District for new development and redevelopment projects was presented. It was moved by Taylor, supported by Woodward, to adopt a release rate not-to-exceed 0.2 cubic feet per second per acre within the Drainage District for new development and redevelopment projects as presented.

ADOPTED: Yeas - 3
Nays - 0

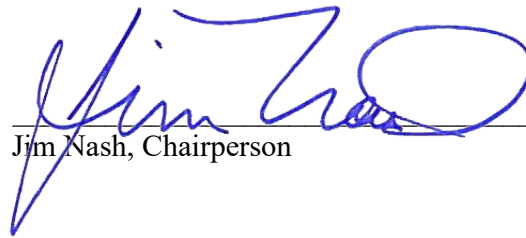
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$19,998.75 (as attached) was presented. It was moved by Taylor, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$19,998.75.

ADOPTED: Yeas - 3
Nays - 0

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

ADOPTED: Yeas - 3
Nays - 0

There being no further business, the meeting was adjourned.

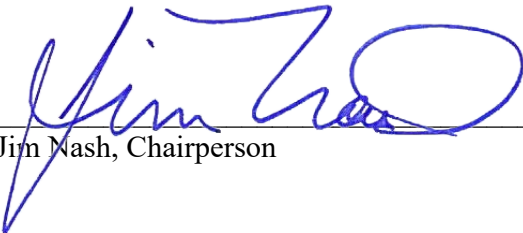


Jim Nash, Chairperson

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 Bloomfield Village CSO Drain, Oakland County, Michigan, held on the 25th day of February 2025, 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: February 25, 2025

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

HB for Shawn Phelps

DATE: March 25, 2025

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 March 18, 2025

G/L Date	Ref No.	Paid To	For	Amount
3/14/2025	V # SINV00326790	Shaw Service & Maintenance	Invoice # 910013223 - Contracted Services	\$ 1,881.00
			Total	\$ 1,881.00
3/5/2025	V # SINV00324844	Fishbeck	Invoice # 449695 - Contracted Services - 02/28/25 - Proj 1-7651	\$ 8,391.50
			Project # 1-7651 Total	\$ 8,391.50
3/5/2025	V # SINV00324816	Fishbeck	Invoice # 449551 - Contracted Services - Proj 1-7796	\$ 1,757.00
			Project # 1-7796 Total	\$ 1,757.00
2/28/2025	V # SINV00323527	Hubbell Roth & Clark Inc	Invoice # 0222519 - Contracted Services - 11/09/24 - Proj 1-7088	\$ 1,474.50
			Total Project 1-7088	\$ 1,474.50
			Grand Total	\$ 13,504.00

5. George W. Kuhn Drain

AGENDA

DRAINAGE BOARD FOR THE GEORGE W. KUHN DRAIN

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2025
3. Public Comments
4. Present Memorandum from Sara Rubino, Drainage District Legal Counsel, dated March 25, 2025, requesting the Board approve the contract with Compass Strategies for a 6-month engagement at a cost of \$38,400 and authorize the Chairperson to execute the contract
5. Present Memorandum from Stephanie Petriello, Environmental Planner, dated March 25, 2025, requesting the Board receive and file the RainSmart Rebates Pilot Program Update
6. Present Construction Estimate No. 9 for Rolls Mechanical for Construction of the HomeGuard Program in the amount of \$37,831.33
7. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$91,220.70
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**

February 25, 2025

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 25th day of February 2025.

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

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

ABSENT: None.

Minutes of the meeting held January 28, 2025, were presented for consideration. It was moved by Taylor, 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 from Sara Rubino, Drainage District Legal Counsel, dated February 25, 2025, requesting the Board approve the contract with Public Sector Consultants with a total cost not to exceed \$30,000 and authorize the Chairperson to execute the contract and any documents as may be necessary to finalize the contract was presented. It was moved by Taylor, supported by Woodward, to approve the contract with Public Sector Consultants with a total cost not to exceed \$30,000 and authorize the Chairperson to execute the contract and any documents as may be necessary to finalize the contract as presented.

ADOPTED: Yeas - 3
Nays - 0

Lesli Maes, P.E., Operations Engineer, dated February 25, 2025, requesting the Board approve the Drainage District's FY 2025 Reserve Projects at a cost of \$1,806,000 utilizing funds from the Major Maintenance and Capital Improvement reserves was presented. It was moved by Taylor, supported by Woodward, to approve the Drainage District's FY 2025 Reserve Projects at a cost of \$1,806,000 utilizing funds from the Major Maintenance and Capital Improvement reserves as presented.

ADOPTED: Yeas - 3
Nays - 0

A memorandum from M. Drew Sandahl, P.E., Chief Engineer, dated February 25, 2025, requesting the Board establish a project to upload soil boring data to ArcGIS Online in the amount of \$25,000 and award engineering services to NTH Consultants for a not to exceed amount of \$20,000 was presented. It was moved by Taylor, supported by Woodward, to establish a project to upload soil boring data to ArcGIS Online in the amount of \$25,000 and award engineering services to NTH Consultants for a not to exceed amount of \$20,000 as presented.

ADOPTED: Yeas - 3
Nays - 0

Construction Estimate No. 8 for Rolls Mechanical for Construction of the HomeGuard Program in the amount of \$57,363.40 was presented. It was moved by Taylor, supported by Woodward, to approve Construction Estimate No. 8 for Rolls Mechanical for Construction of the HomeGuard Program in the amount of \$57,363.40 as presented.

ADOPTED: Yeas - 3
Nays - 0

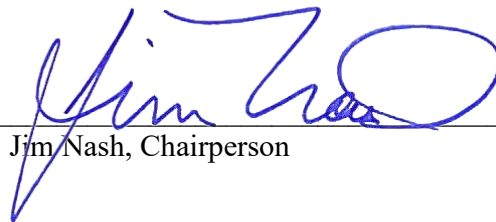
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$35,682.90 (as attached) was presented. It was moved by Taylor, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$35,682.90.

ADOPTED: Yeas - 3
Nays - 0

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

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 George W. Kuhn Drain, Oakland County, Michigan, held on the 25th day of February 2025, 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: February 25, 2025

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**

MEMORANDUM

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

FROM: Sara Rubino, Drainage District Legal Counsel

SUBJECT: Contract Proposal

DATE: March 25, 2025

Compass Strategies is a Detroit-based public affairs firm that provides public relations, governmental affairs, and community engagement support for public and private organizations.

For more than a year, the George W. Kuhn Retention Treatment Basin (GWK RTB) has received a considerable amount of unfavorable media attention. Unfortunately, the media reports have included inaccurate and misleading information regarding the GWK RTB. Dissemination of the misinformation has continued despite efforts from Oakland County leaders and internal marketing and communications staff.

The false information has resulted in delays to the National Pollutant Discharge Elimination System permit renewal process and proposed state legislation that would impose stiff financial penalties on Oakland County. In addition, damage to the reputation of the facility has the potential to impair relationships with community stakeholders, regional partners, elected officials, and state departments.

Compass Strategies has proposed a 6-month, retainer-based engagement that includes impact and activity assessment, communication support and management, and strategic planning to improve public relations and repair reputational harm.

RECOMMENDED ACTION: Approve the contract with Compass Strategies for a 6-month engagement at a cost of \$38,400 and authorize the Chairperson to execute the contract.

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**

MEMORANDUM

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

FROM: Stephanie Petriello, Environmental Planner

SUBJECT: RainSmart Rebates Pilot Program Update

DATE: March 25, 2024

RainSmart Rebates, a residential Green Stormwater Infrastructure rebate pilot program for the George W. Kuhn Drain Drainage District, has received more than 250 applications since it began accepting applications on March 1, 2025. At its September 26, 2023 meeting, this Board authorized \$200,000 spread over two years (2024-2025) for the distribution of homeowner rebates after successful installations of rain gardens, rain barrels, and trees through the RainSmart Rebates program.

In 2024, \$76,098.21 was spent on homeowner rebates and Equity Grant assistance. This allows for \$123,901.79 to be utilized in 2025.

Long-term, alternative funding will continue to be pursued this year.

Requested Action: Receive and file.

**Jim Nash, Oakland County Water Resources Commissioner
GWK Drain Drainage District
For Construction of the HomeGuard Program
City of Berkley
Oakland County, Michigan**

Construction Estimate No. 9

February 1, 2025 to February 28, 2025

Department No. : 6010101
Fund No. : 58510
Project No. : 1-7840

Account No. : 730373
Program No. : 149662
Activity : STD
Vendor No. : 30038
Contract No. : CON00010963
Date of Contract : 6/13/2024
Completion Date : NA

Contractor :
Rolls Mechanical
1490 Torrey Road
Fenton, MI 48430

Original Contract Amount: \$750,000.00

Previous Change Order Numbers (none): \$0.00

Change Orders This Estimate Numbers (none): \$0.00

Total Net Change Orders: \$0.00

Adjusted Contract Amount: \$750,000.00

Subtotal To Date: (Sheet 2 of 2 Column 7) \$369,262.15

Less Deductions to Date: (Sheet 2 of 2 Column 7) \$3,600.00

Gross Estimate: (Work in Place) \$365,662.15

Less Previous Estimates: \$327,830.82

Net Payment Request To Be Paid To Contractor: \$37,831.33

Balance of Contract To Date ☒ \$380,737.85

Accounting Auditor: *BCR* 3/12/2025

Prepared by: *Jen Cook*
Jen Cook, P.E. - Project Engineer

Date: 3/13/2025

Recommended by: *James F. Burton*
James Burton, P.E. - Consulting Engineer

Date: 03/13/2025

Approved by: *Joel Brown*
Joel Brown, P.E. - Chief Engineer

Date: 3/14/2025

Approved by Board on: _____

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the GEORGE W. KUHN DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting

15 for Shawn Phelps

DATE: March 25, 2025

SUBJECT: Request for Board approval of payment of the following invoice(s):

Payable To	Ref No.	For	Amount
Dickinson Wright PLLC	SINV00327777	Invoice # 2014989 - Legal Services - 02/28/25	\$ 11,060.00
Dickinson Wright PLLC	SINV00327780	Invoice # 2014990 - Legal Services - 02/28/25	15,941.12
Dickinson Wright PLLC	SINV00327530	Invoice # 2015003 - Legal Services - 02/28/25	132.00
Dickinson Wright PLLC	SINV00327785	Invoice # 2015006 - Legal Services - 02/28/25	15,785.81
Dickinson Wright PLLC	SINV00327788	Invoice # 2015008 - Legal Services - 02/28/25	9,574.00
Dickinson Wright PLLC	TBP	Invoice # 2015013 - Legal Services - 02/28/25	10,566.07
OHM	SINV00327792	Invoice # 85954 - Professional Services - 02/22/25	1,714.33
		Subtotal	\$ 64,773.33
HRC	SINV00324846	Invoice #0224960 - 02/01/25 - Contracted Services -Proj 1-3484	171.37
		Project # 1-3484 Total	\$ 171.37
Tetra Tech Inc	SINV00324827	Invoice # 52389033 - 02/21/25 - Contracted Services Proj 1-7541	4,904.00
		Project # 1-7541 Total	\$ 4,904.00
Systems Specialties	SINV00323575	Invoice # 63939 - Materials and Supplies - Project 1-7758	21,372.00
		Project # 1-7758 Total	\$ 21,372.00
		Grand Total	\$ 91,220.70

6. Clinton River Water Resource Recovery Facility

AGENDA
DRAINAGE BOARD FOR
THE CLINTON RIVER WATER RESOURCE RECOVERY FACILITY

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2025
3. Public Comments
4. Present Memorandum from Razik Alsaigh, P.E., Operations Project Engineer, dated March 25, 2025, requesting the Board approve the uninitiated projects and amended projects budget as identified in the table using fund from Major Maintenance and Capital Improvements reserves
5. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$13,683,210 and the Capital Improvement Plan
6. Present Change Order No. 7 for Clark Construction Company for Construction of the Optimization Phase I Project for a net increase in the amount of \$4,494
7. Present Construction Estimate No. 8 for Clark Construction Company for Construction of the Optimization Phase I Project in the amount of \$1,725,007.09 with a transfer to the Oakland County Treasurer in the amount of \$191,667.45
8. Present Construction Estimate No. 2 for Clark Construction Company for Construction of the Optimization Phase II Project in the amount of \$244,296.00 with a transfer to the Oakland County Treasurer in the amount of \$27,144.00
9. 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 \$309,008.87
10. 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 \$147,141.18
11. Other business
12. Approve pro rata payment to Drainage Board members
13. Adjourn

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

February 25, 2025

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 25th day of February 2025.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Linnie Taylor for 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 January 28, 2025, were presented for consideration. It was moved by Taylor, 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 from Razik Alsaigh, P.E., Civil Engineer III, dated February 25, 2025, requesting the Board accept Gallagher's insurance coverage proposal for the Drainage District's Optimization Phase II Project at a cost of \$1,012,512.51 covering the duration of the 3-year construction project was presented. It was moved by Taylor, supported by Woodward, to accept Gallagher's insurance coverage proposal for the Drainage District's Optimization Phase II Project at a cost of \$1,012,512.51 covering the duration of the 3-year construction project as presented.

ADOPTED: Yeas - 3
Nays - 0

A memorandum from Carrie Cox, P.E., Special Projects Manager and Michael Daniels, Chief WRC Water Resource Recovery, Clinton River WRRF, dated February 25, 2025, requesting the Board receive and file the 2025 CRWRRF Asset management Plan was presented. It was moved by Taylor, supported by Woodward, to receive and file the 2025 CRWRRF Asset management Plan as presented.

ADOPTED: Yeas - 3
Nays - 0

A memorandum from John Basch, Drainage District Legal Counsel, dated February 25, 2025, requesting the Board receive and file the Crown Dutton Holdings, LLC signed consent agreement update was presented. It was moved by Taylor, supported by Woodward, to receive and file the Crown Dutton Holdings, LLC signed consent agreement update as presented.

ADOPTED: Yeas - 3
Nays - 0

Change Order No. 6 for Clark Construction Company for Construction of the Optimization Phase I Project for a net increase in the amount of \$35,071 was presented. It was moved by Taylor, supported by Woodward, to approve Change Order No. 6 for Clark Construction Company for Construction of the Optimization Phase I Project for a net increase in the amount of \$35,071 as presented.

ADOPTED: Yeas - 3
Nays - 0

Construction Estimate No. 7 for Clark Construction Company for Construction of the Optimization Phase I Project in the amount of \$576,024.15 with a transfer to the Oakland County Treasurer in the amount of \$64,002.68 was presented. It was moved by Taylor, supported by Woodward, to approve Construction Estimate No. 7 for Clark Construction Company for Construction of the Optimization Phase I Project in the amount of \$576,024.15 with a transfer to the Oakland County Treasurer in the amount of \$64,002.68 as presented.

ADOPTED: Yeas - 3
Nays - 0

Construction Estimate No. 1 for Clark Construction Company for Construction of the Optimization Phase II Project in the amount of \$226,476.90 with a transfer to the Oakland County Treasurer in the amount of \$25,164.10 was presented. It was moved by Taylor, supported by Woodward, to approve Construction Estimate No. 1 for Clark Construction Company for Construction of the Optimization Phase II Project in the amount of \$226,476.90 with a transfer to the Oakland County Treasurer in the amount of \$25,164.10 as presented.

ADOPTED: Yeas - 3
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 \$224,187.74 (as attached) was presented. It was moved by Taylor, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$224,187.74.

ADOPTED: Yeas - 3

Nays - 0

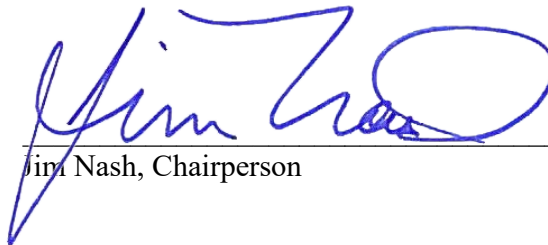
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund from the Construction Fund in the amount of \$93,766.61 (as attached) was presented. It was moved by Taylor, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund from the Construction Fund in the amount of \$93,766.61.

ADOPTED: Yeas - 3
Nays - 0

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

ADOPTED: Yeas - 3
Nays - 0

There being no further business, the meeting was adjourned.

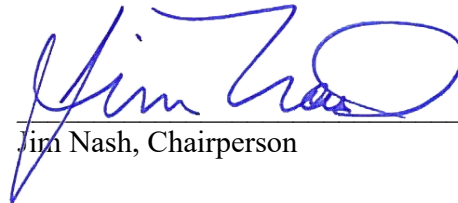


Jim Nash, Chairperson

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 Clinton River Water Resource Recovery Facility, Oakland County, Michigan, held on the 25th day of February 2025, 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: February 25, 2025

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER****MEMORANDUM**

TO: Jim Nash, Chairperson of the Clinton River Water Resource Recovery Facility
Drainage District Board

FROM: Razik Alsaigh, P.E., Operations Projects Engineer

SUBJECT: Clinton River Water Resource Recovery Facility
Major Maintenance and Capital Improvement Projects

DATE: March 25, 2025

Annually, the Drainage Board for the Clinton River Water Resource Recovery Facility Drainage District approves the maintenance assessment recommendation and special assessment roll for current and future fiscal years. Included in the development of the maintenance assessment recommendation and special assessment roll is the long-range plan for both major maintenance and capital improvement projects at the facility. Major maintenance projects represent the larger maintenance activities required for operation of the plant and are not considered to be a part of the standard, day-to-day operation and maintenance. Capital improvement projects include new construction, replacement of existing assets and/or work that extends the useful life of the existing assets.

Operations staff has evaluated the conditions of both the Auburn plant and the East Boulevard plant, which together makes up the Clinton River Water Resource Recovery Facility. They compiled the attached project list which includes ongoing projects as well as projects to be initiated during Fiscal Year 2026.

The attached tables provide a list of FY2024 and FY2025 projects that have been previously approved and are currently in progress. Of the projects in progress, the cells in the "Total Project Budget" column that are highlighted yellow and require a budget amendment to complete the work. Also included in the tables are additional proposed FY2025 projects that have yet to be initiated.

Also included in the tables is a list of proposed FY2026 projects that have yet to be initiated. These projects initially were slated to be created at the end of FY2025, but the associated expenses will not hit the reserve funds until FY2026.

Staff recommends amending the existing project budgets as shown on these tables and initiating the new projects for FY2025 and FY2026.

Requested Action: Approve the uninitiated projects and amended projects budgets as identified on the attached table using funds from Major Maintenance and Capital Improvement reserves.

CRWRRF MAJOR MAINTENANCE PROJECTS				
FY 2024-2025 Projects (in Progress)				
Proj. ID	Total Project Budget	Expensess through FY24	Description	FY25 Projected
-	-	\$0	WWTP Major Maint Unplanned	\$200,000
-	-	\$0	CRWRRF PowerPlan Support Cost	\$155,061
-	\$20,000	\$0	CRWRRF Effluent Meter Dye Testing	\$20,000
-	\$20,000	\$0	CRWRRF Evaluate Sewage Flow Meters	\$20,000
1-3243	\$140,000	\$51,450	360 Water Training	\$10,000
1-3451	\$115,000	\$82,430	Facilities Repairs	\$30,000
1-3470	\$190,000	\$118,455	CRWRRF Pump Rebuilds	\$70,000
1-3492	\$350,000	\$257,234	Valve & Gate Replacement	\$90,000
1-3517	\$31,000	\$5,824	EB Access Drive Repair	\$25,000
1-3525	\$190,000	\$85,315	Rexnord Gear Box Repair	\$100,000
1-7127	\$230,000	\$38,839	EB Overhead River Crossings	\$170,000
1-7470	\$40,000	\$26,930	Sodium Hypochlorite Storage Tank Repair	\$10,000
1-7082	\$425,000	\$24,198	Evaluate & Repair Contact Tanks	\$400,000
1-7550	\$276,544	\$108,030	CRWRRF Energy Study	\$133,875
TBD	\$400,000	\$0	CRWRRF East Blvd. Blower Building Repair	\$200,000
TBD	\$120,000	\$0	Evaluate & Repair Grit Blowers 1 & 2 and Motors	\$20,000
TBD	\$28,000	\$0	Replace Ferrous Tank Level Indicators	\$28,000
1-7078	\$30,000	\$15,250	East Blvd. Well House Repair	\$12,000
1-7513	\$100,000	\$48,904	Centrifuge Repair	\$50,000
Proposed FY 2026 Projects (to be initiated)				
Proj. ID	Total Project Budget		Description	FY25 Projected
	\$30,000		East Blvd. Evaluate & Repair Aeration Tank 1	\$0
	\$10,000		East Blvd. Electrical Assessment	\$0
	\$95,000		East Blvd. Blower Building Replace Boiler	\$0
	\$200,000		East Blvd. Condition Assessment	\$0
			Total Expense	\$1,743,936

CRWRRF CAPITAL IMPROVEMENT PROJECTS				
FY 2024-2025 Projects (in Progress)				
Proj. ID	Total Project Budget	Expensess through FY24	Description	FY25 Projected
-	-	\$0	CRWRRF CIP Unplanned	\$250,000
-	-	\$0	Vehicle and Equipment Replacements	\$150,000
-	\$50,926	\$0	CRWRRF Asset Mgmt Software Implementation	\$50,926
1-3455	\$70,000	\$44,717	Lab Equipment	\$25,000
1-3485	\$110,000	\$64,656	I&C Improvements and Replacements	\$45,000
1-3679	\$650,000	\$95,261	Aub Waterline Loop-Waterline Metering Stations)	\$400,000
1-7047	\$222,000	\$59,724	Maximum Allowable Headworks Loading (MAHL)	\$162,000
1-7048	\$235,000	\$84,119	CRWRRF Security Upgrades	\$150,000
1-7514	\$15,000	\$3,020	Plant Samplers	\$10,000
TBD	\$100,000	\$0	Digester #1 changes	\$100,000
1-7571	\$530,000	\$20,000	East Blvd. Blower Building SCADA Signals	\$480,000
1-7549	\$50,000	\$6,227	Plant SCADA assistance	\$20,000
1-7720	\$300,000	\$0	EB Engineered Gates Replacement	\$200,000
TBD	\$100,000	\$0	EB Engineered Valves Replacement	\$100,000
TBD	\$150,000	\$0	Auburn Renovate Tertiary Treatment	\$150,000
TBD	\$100,000	\$0	Drain Pump - EB Blower Building	\$100,000
TBD	\$20,000	\$0	East Blvd. Replace Flow Meter Downlookers	\$20,000
TBD	\$50,000	\$0	Auburn Additional Biodrying	\$50,000
TBD	\$30,000	\$0	Replace Chemical Pumps	\$30,000
Proposed FY 2026 Projects (to be initiated)				
Proj. ID	Total Project Budget		Description	FY25 Projected
	\$20,000		EB Main Access Drive Replacement	\$0
	\$20,000		Sewage Meter Replacements	\$0
	\$100,000		East Blvd. Odor Control Improvements	\$0
	\$250,000		EB Replace Aeration Blower 60, Motors for Blowers 60 & 100 and Waukasha	\$0
	\$75,000		EB Replace Mixers for Aeration Tanks 1 & 2	\$0
	\$20,000		East Blvd. Replace EQ Basin Processor Panel	\$0
	\$100,000		East Blvd. Replace RAS & WAS Pumps	\$0
	\$10,000		Vibration Analysis	\$0
			Total Expense	\$2,492,926

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE

Clinton River WRRF Drain

Assessment for the following year of expenses: July 1, 2025 through June 30, 2026

Operating Expenses

Sewage Treatment	\$ 8,596,240.00
Sewer System Maintenance	266,690.00
Sewer System Engineering	92,520.00
Septage Unloading Facility	24,850.00
Systems Control Unit	42,780.00
IPP	135,100.00
Laboratory	551,870.00
Mapping Unit	6,780.00
General and Administrative	1,703,500.00
Total Operating Expenses	<u>\$ 11,420,330.00</u>

Revenue Requirements:

Operating Expense	\$ 11,420,330.00
Non-Operating	-
Major Maintenance	1,480,200.00
Emergency Maintenance	200,000.00
Capital	1,300,000.00
Total Revenue Requirements	<u>\$ 14,400,530.00</u>
Non-Rate Revenue	<u>(717,320.00)</u>
Rate Required Revenue	<u>\$ 13,683,210.00</u>

Recommended July 1, 2025 through June 30, 2026 assessment:

Total Anticipated Expenses for July 1, 2025 - June 30, 2026	\$ 13,683,210.00
Total Anticipated Funds Needed	<u>\$ 13,683,210.00</u>

TOTAL RECOMMENDED ASSESSMENT

\$ 13,683,210.00

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

Prepared by: Raphael Chiolla
Raphael Chiolla - WRC Financial Services

Date: 3/19/2025

Approved by: Gary Nigro
Gary Nigro - Manager, Water Resources Commissioner

Date: 3/21/2025

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE
OF THE CLINTON RIVER WRRF DRAIN**

Public Corporation	Percentage of Apportionment	Total Amount of Assessment
City of Pontiac	55.210%	\$ 7,554,500
Clinton-Oakland SDS	44.790%	6,128,710
<hr/>		
Total	100.00000%	\$ 13,683,210

Assessment Due Date: To be collected on the following quarters: 9/30/2025, 12/31/2025, 3/31/2026 and 6/30/2026

I hereby certify that I have prepared the Special Assessmnt Roll for the Maintenance of the Clinton River WRRF Drain for the period July 1, 2025 through June 30, 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 Clinton River WRRF Drain

The foregoing Special Assessment Roll for the maintenance of the Clinton River WRRF Drain was approved by the Drainage Board on _____.

Jim Nash
Chairman of the Drainage Board for the Clinton River WRRF Drain

CLINTON RIVER WATER RESOURCE RECOVERY
FACILITY DRAIN

CAPITAL IMPROVEMENT PLAN

2026-2030

Capital and Major Maintenance Report

March 13, 2025

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Overview

This document presents the proposed five-year Capital Improvement Plan (CIP) for fiscal years 2026-2030 (October 1, 2025, through September 30, 2030) for the Clinton River Water Resource Recovery Facility (CRWRRF) Drain. The CIP includes anticipated capital and major maintenance work for the period and provides recommendations for the revenue requirements of the major maintenance and capital rate components and system reserves. This forecast of the system's recommended investment is intended to establish long-term budget needs to support future rate stability. The goal is to utilize revenue-based financing where possible, however, forecasts include necessary bond financing. State Revolving Fund loan opportunities and possible state and federal grant options will be pursued to maintain the desired levels of service.

Asset Condition

The condition of the assets in this system is determined by either physical inspection or estimated by useful life where an inspection has not been performed. Strategies related to the future inspection, rehabilitation and replacement are based on the asset's expected performance. These produce intervention recommendations which are reviewed by engineers and field supervisors who select the appropriate action. In this way, capital investment and major maintenance activities address the highest risk assets and maintain the lowest lifecycle cost. The activities may include additional inspection, rehabilitation, repair or replacement.

One of the primary factors used in the system investment strategy is condition of the assets. The overall condition (measured as current Probability of Failure) for all assets in the system is summarized by Replacement Cost in Figure 1, with over 41% of the system categorized in good condition and approximately 42% categorized in poor condition.

Condition
(by % of Replacement Cost)

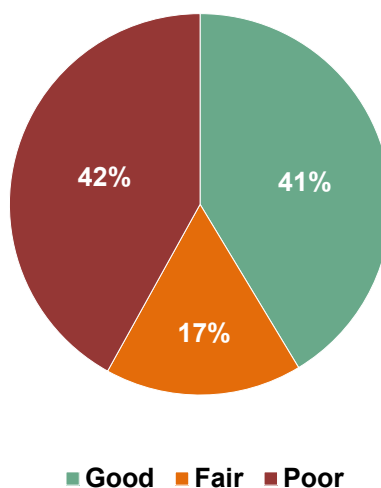


Figure 1: Overall System Condition, by Replacement Cost



To address the rehabilitation, repair, or replacement of the assets categorized in poor condition, a five-year plan has been developed for both capital improvement and major maintenance activities. In some cases, where inspection information is lacking, a re-inspection of the asset is indicated. Details of the investment needed to address these assets are presented in the “Recommendations” section of this report.

Work history is tracked at the asset level. Table 1 provides a summary of the previous year’s inspection, maintenance and corrective action activities. The goal of optimized maintenance is for an 80/20 balance between Predictive/Preventive work and Corrective work. Figure 2 shows a desirable trend for this system.

Table 1: FY2024 Work Order Summary

Clinton River Water Resource Recovery Facility Drain			
Work Order Type	Work Order Quantity	Work Distribution	Goal
Predictive Maintenance*	50	2.0%	80%
Preventive Maintenance	1991	81.1%	
Corrective Maintenance	414	16.9%	20%

**Collection system inspections are included in Predictive Maintenance*

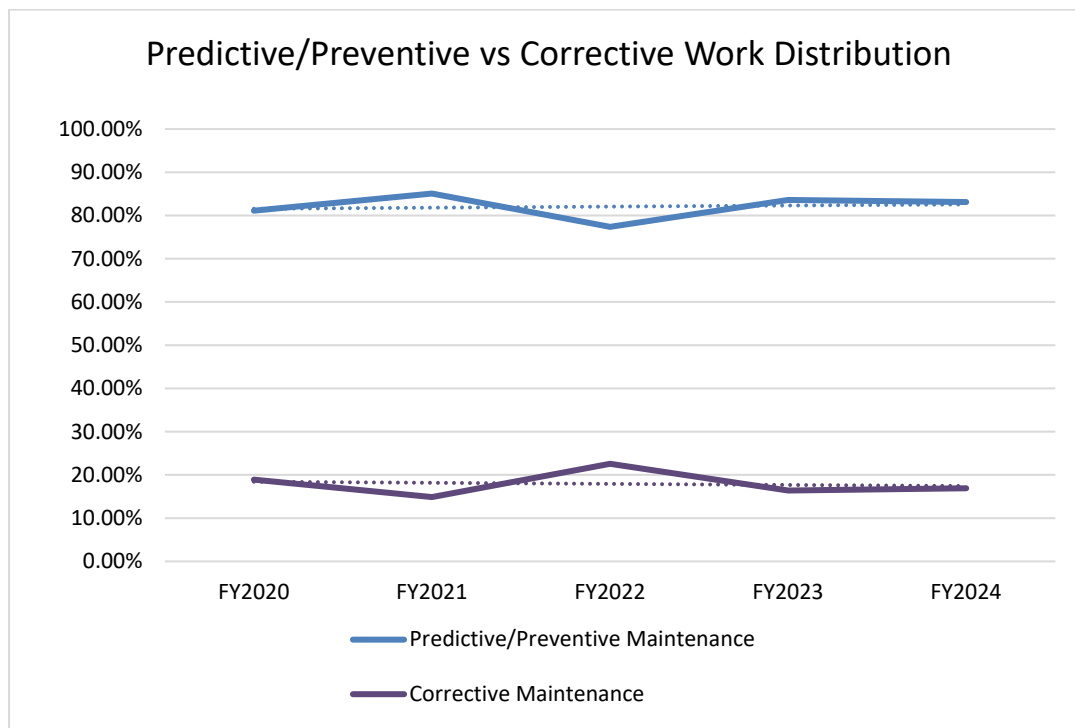


Figure 2: Work Distribution



Level of Service

Level of Service (LOS) is asset management terminology that refers to the quality of service provided to meet customer expectations. It defines the way in which a utility owner wants its system to perform over the long term and is a fundamental part of how the utility is operated and the planned investment is determined. In other words, level of service refers to the operation and investment in the system to provide customers and users the desired quality of service. There is a direct link between the LOS provided and the cost to the customer.

In determining the LOS for the Clinton River Water Resource Recovery Facility Drain system, a risk-based approach is used. Inspections are based on strategies that consider age, condition and other factors to recommend an efficient and cost-effective cycle. This risk-based approach to condition assessment is applied to horizontal assets (pipe and manholes) and vertical assets (equipment within a facility such as pumps, electrical equipment, structures and buildings), and is performed on a frequency determined by asset type.

The frequency and type of capital and major maintenance activities are also based on a desired LOS. This involves performing asset rehabilitations and replacements to maintain acceptable risk and optimal lifecycle costs. Acceptable risk can vary by system based upon the resources available to operate and maintain a particular utility. Delaying capital and/or major maintenance activities increases the risk of service interruptions, increases potential environmental impacts and reduces the quality of service to customers.

The financial health of a system is also a measurable component of LOS. Each system develops a long range plan (LRP) and an accompanying rate structure to ensure adequate revenues are collected for budgeted and anticipated future needs. The LRP includes multiple reserve accounts used to fund activities including an Emergency Repair Reserve, Capital Improvement Reserve, Major Maintenance Reserve and Operating Reserve.

Asset Inventory

A Geographic Information System (GIS) geodatabase is the primary means to inventory and map the assets in the system. The geodatabase captures key attributes associated with each asset, such as installation date (age), size and material. There are over 1,410 assets in the Clinton River Water Resource Recovery Facility Drain valued at or with a replacement value of over \$189.3 million as of 2025. A more detailed asset inventory can be found in Appendix A.

Assets include:

- 12,903 feet of sanitary gravity and non-gravity main
- 2 sewage treatment facilities
- 4 sewer flow meters (for billing and compliance)
- 1 septage unloading facility
- 1,238 vertical assets

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High Risk Assets

Not all assets are equally important to a utility's operation. Some assets are highly critical to maintaining operations while others could be out of service for a period of time without a negative impact due to redundancy or efficiencies. Critical assets are assets that provide extremely important functions, especially those for which there is no available redundancy or substitution. The consequences of failure of critical assets are serious, having potential to significantly impact customer services. We have analyzed the system and determined which assets are critical.

The overall criticality is an asset prioritization measure and is determined by the consequence of failure. The Consequence of Failure estimates the impact of an assets failure and considers not only the financial impacts but also public safety, service interruption, regulatory requirements and impacts to the public. Generally, the Consequence of Failure does not change throughout the life of an asset. For example, static attributes such as depth and proximity to surface waters and large roadways will affect Consequence of Failure.

The Risk of failure for a critical asset is determined by the Probability of Failure multiplied by the Consequence of Failure. The Probability of Failure is determined by measures such as asset age, condition, failure history, maintenance records, etc. Probability of Failure typically increases as an asset ages or continues to operate. Risk is used to prioritize repairs, replacements and asset inspections. For a more detailed explanation of asset risk, see Appendix B.

At this time, there are 33 assets falling into the high risk category in the CRWRRF Drain system and are therefore prioritized for attention in the 2025-2030 planning window. These assets are listed in Appendix C. The plan to address these assets is part of planned improvements presented below in the Capital Improvement and Major Maintenance Expense Budget tables. To summarize the action plan for these assets:

- 2 are in planned projects
- 31 are to be inspected in the 2025-2030 window



Major Maintenance Expense Budget

Major maintenance work occurs to support an asset in a variety of ways, allowing it to reach its intended useful life. For horizontal assets this includes pipe cleaning, televised inspection, pipe spot repair, joint grouting, and other activities. For vertical assets this includes rehabilitation or rebuilding of equipment. This table describes current and recommended work through FY2030. A summarized list of Projects can be found in Appendix E. A comparison of Budgeted and Actual Costs can be found in Appendix F.

Table 2: Major Maintenance Expense Budget

Expense Description	Funding	Program	FY2025 In Progress	FY2026	FY2027	FY2028	FY2029	FY2030	5 Year Total
CRWRRF 360 Water Training	Reserve	PRJ-13243	\$10,000	\$60,000	\$60,000	\$10,000	\$10,000	\$10,000	\$150,000
CRWRRF Auburn Evaluate/Repair Contact Tanks	Reserve	PRJ-17082	\$400,000	\$250,000	\$250,000	\$0	\$0	\$0	\$500,000
CRWRRF Auburn Repair Centrifuge	Reserve	PRJ-17513	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$100,000
CRWRRF Auburn Repair Pri Clarifier Tank3 Floor	Reserve	PRJ-17162	\$0	\$0	\$200,000	\$200,000	\$0	\$0	\$400,000
CRWRRF Auburn Repair Rexnord Gear Boxes 1&3	Reserve	PRJ-13525	\$100,000	\$100,000	\$0	\$0	\$0	\$0	\$100,000
CRWRRF Auburn Repair Sodium Hypo Tank	Reserve	PRJ-17470	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0
CRWRRF East Blvd. Blower Bldg Repair	Reserve	149662	\$200,000	\$200,000	\$0	\$0	\$0	\$0	\$200,000
CRWRRF East Blvd. Blower Bldg Replace Boiler	Reserve	149662	\$0	\$95,000	\$0	\$0	\$0	\$0	\$95,000
CRWRRF East Blvd. Condition Assessment	Reserve	149662	\$0	\$200,000	\$200,000	\$0	\$0	\$0	\$400,000
CRWRRF East Blvd. Electrical Assessment	Reserve	149662	\$0	\$10,000	\$0	\$0	\$0	\$ 10,000	\$20,000
CRWRRF East Blvd. Evaluate/Repair Aeration Tank 1	Reserve	149662	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000
CRWRRF East Blvd. Evaluate/Repair Aeration Tank 2	Reserve	149662	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000
CRWRRF East Blvd. Evaluate/Repair Aeration Tank 3	Reserve	149662	\$0	\$0	\$0	\$30,000	\$0	\$0	\$30,000
CRWRRF East Blvd. Evaluate/Repair Aeration Tank 4	Reserve	149662	\$0	\$0	\$0	\$0	\$30,000	\$0	\$30,000
CRWRRF East Blvd. Overhead River Crossings	Reserve	PRJ-17127	\$170,000	\$20,000	\$0	\$0	\$0	\$0	\$20,000
CRWRRF East Blvd. Repair Access Drives	Reserve	PRJ-13517	\$25,000	\$25,000	\$0	\$0	\$0	\$0	\$25,000
CRWRRF East Blvd. Well House Repair	Reserve	PRJ-17078	\$12,000	\$25,000	\$0	\$0	\$0	\$0	\$25,000
CRWRRF Effluent Meter Dye Testing	Reserve	149662	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0
CRWRRF Energy Study	Reserve	PRJ-17550	\$133,875	\$34,639	\$0	\$0	\$0	\$0	\$34,639
CRWRRF Evaluate/Repair Chemical Tanks 1&2	Reserve	149662	\$0	\$0	\$20,000	\$20,000	\$20,000	\$0	\$60,000
CRWRRF Evaluate/Repair Grit Blowers 1&2, Motors	Reserve	149662	\$20,000	\$100,000	\$0	\$0	\$0	\$0	\$100,000



Expense Description	Funding	Program	FY2025 In Progress	FY2026	FY2027	FY2028	FY2029	FY2030	5 Year Total
CRWRRF Evaluate Sewage Flow Meters	Reserve	149662	\$20,000	\$0	\$0	\$0	\$0	\$ 20,000	\$20,000
CRWRRF Facility Repairs	Reserve	PRJ-13451	\$30,000	\$30,000	\$30,000	\$40,000	\$40,000	\$ 40,000	\$180,000
CRWRRF Gravity Main CCTV & Manhole Inspect	Reserve	149662	\$0	\$0	\$10,000	\$20,000	\$0	\$0	\$30,000
CRWRRF PowerPlan Support Cost	Reserve	149669	\$155,061	\$136,732	\$140,834	\$145,059	\$149,411	\$ 153,893	\$725,929
CRWRRF Process Improvement Study	Reserve	149662	\$0	\$0	\$500,000	\$0	\$0	\$0	\$500,000
CRWRRF Project Performance Certification (PPC)	Reserve	149662	\$0	\$0	\$50,000	\$0	\$1,000,000	\$ 450,000	\$1,500,000
CRWRRF Pump Rebuilds FY2021	Reserve	PRJ-13470	\$70,000	\$70,000	\$50,000	\$50,000	\$50,000	\$ 50,000	\$270,000
CRWRRF Rebuild Ferrous Containment Pump	Reserve	149662	\$0	\$0	\$0	\$ 5,000	\$ 5,000	\$0	\$10,000
CRWRRF Replace Ferrous Tank Level Indicators	Reserve	149662	\$28,000	\$0	\$0	\$0	\$0	\$0	\$0
CRWRRF Unplanned Major Maintenance	Reserve	149662	\$200,000	\$200,000	\$200,000	\$600,000	\$700,000	\$ 600,000	\$2,300,000
CRWRRF Valve & Gate Replacements	Reserve	PRJ-13492	\$90,000	\$90,000	\$70,000	\$60,000	\$60,000	\$ 50,000	\$330,000
Rate Funded			\$1,743,936	\$1,726,371	\$1,860,834	\$1,180,059	\$2,064,411	\$1,383,893	\$8,215,568
Bond/Grant Funded			\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total			\$1,743,936	\$1,726,371	\$1,860,834	\$1,180,059	\$2,064,411	\$1,383,893	\$8,215,568



Capital Improvement Expense Budget

Capital activities either add new assets, replace an existing asset or modify an existing asset in such a way as to extend its useful life beyond the original expectation. For horizontal assets, useful life can be extended by lining and other structural rehabilitations. For vertical assets, useful life is also extended by rehabilitation, rebuilding or modification of equipment. This table describes current and recommended work through FY2030. A summarized list of Projects can be found in Appendix E. A comparison of Budgeted and Actual Costs can be found in Appendix F.

Table 3: Capital Improvement Expense Budget

Expense Description	Funding	Program	FY2025 In Progress	FY2026	FY2027	FY2028	FY2029	FY2030	5 Year Total
CRWRRF ACO Storage Tank	Bond/Grant	149667	\$0	\$0	\$0	\$0	\$0	\$500,000	\$500,000
CRWRRF Add Diffusers	Reserve	149667	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	\$300,000
CRWRRF Asset Mgmt Software Implementation	Reserve	149669	\$50,926	\$0	\$0	\$0	\$0	\$0	\$0
CRWRRF Auburn Additional Biodrying	Reserve	149667	\$50,000	\$750,000	\$750,000	\$50,000	\$50,000	\$50,000	\$1,650,000
CRWRRF Auburn Chemical Enhanced Primary Treatment (CEPT)	Reserve	149667	\$0	\$0	\$200,000	\$200,000	\$0	\$0	\$400,000
CRWRRF Auburn Lab Equipment	Reserve	PRJ-13455	\$25,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$75,000
CRWRRF Auburn MAHL Analysis	Reserve	PRJ-17047	\$162,000	\$0	\$0	\$0	\$0	\$0	\$0
CRWRRF Auburn Renovate Tertiary Treatment	Reserve	149667	\$150,000	\$150,000	\$150,000	\$150,000	\$1,000,000	\$1,000,000	\$2,450,000
CRWRRF Auburn Replace Digester 1 Seal	Reserve	149667	\$100,000	\$700,000	\$500,000	\$0	\$0	\$0	\$1,200,000
CRWRRF Auburn Replace Digester 2 Cover	Reserve	149667	\$0	\$0	\$0	\$0	\$500,000	\$250,000	\$750,000
CRWRRF Auburn Ultraviolet (UV) Treatment	Reserve	149667	\$0	\$0	\$0	\$500,000	\$500,000	\$0	\$1,000,000
CRWRRF Auburn Water Loop (Waterline Metering)	Reserve	PRJ-13679	\$400,000	\$154,739	\$0	\$0	\$0	\$0	\$154,739
CRWRRF East Blvd. Blower Building SCADA Signals	Reserve	PRJ-17571	\$480,000	\$30,000	\$0	\$0	\$0	\$0	\$30,000
CRWRRF East Blvd. Odor Control Improvements	Reserve	149667	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000
CRWRRF East Blvd. Replace Aeration Blower 60, Motors for Blowers 60 & 100 and Waukasha Engine	Reserve	149667	\$0	\$250,000	\$200,000	\$0	\$0	\$0	\$450,000
CRWRRF East Blvd. Replace Drain Pump - Blower Bldg	Reserve	149667	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0
CRWRRF East Blvd. Replace Engineered Gates	Reserve	PRJ-17722	\$200,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
CRWRRF East Blvd. Replace Engineered Valves	Reserve	149667	\$100,000	\$0	\$100,000	\$0	\$100,000	\$0	\$200,000
CRWRRF East Blvd. Replace EQ Basin Processor Panel	Reserve	149667	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000
CRWRRF East Blvd. Replace Flow Meter Downlookers	Reserve	149667	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0



Expense Description	Funding	Program	FY2025 In Progress	FY2026	FY2027	FY2028	FY2029	FY2030	5 Year Total
CRWRRF East Blvd. Replace Main Access Drive	Reserve	149667	\$0	\$20,000	\$300,000	\$0	\$250,000	\$0	\$570,000
CRWRRF East Blvd. Replace Mixers, Aeratn Tanks 1&2	Reserve	149667	\$0	\$75,000	\$75,000	\$0	\$0	\$0	\$150,000
CRWRRF East Blvd. Replace RAS & WAS Pumps	Reserve	149667	\$0	\$100,000	\$90,000	\$0	\$0	\$0	\$190,000
CRWRRF East Blvd. Replace Sec Clarifier 2 Flight Drive	Reserve	149667	\$0	\$0	\$0	\$0	\$550,000	\$0	\$550,000
CRWRRF East Blvd. Replace Sec Clarifier 3 Flight Drive	Reserve	149667	\$0	\$0	\$0	\$0	\$0	\$550,000	\$550,000
CRWRRF East Blvd. Replace Storage Pump	Reserve	149667	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000
CRWRRF East Blvd. Replace Vehicle Bridge 1	Reserve	149667	\$0	\$0	\$0	\$0	\$150,000	\$400,000	\$550,000
CRWRRF East Blvd. Replace Well Pump Transformer	Reserve	149667	\$0	\$0	\$0	\$56,000	\$0	\$0	\$56,000
CRWRRF I&C Improvements and Replacements	Reserve	PRJ-13485	\$45,000	\$20,000	\$45,000	\$30,000	\$20,000	\$15,000	\$130,000
CRWRRF Optimization (Ph 1 Electrical Imp., CoGen)	Bond/Grant	PRJ-17461	\$15,000,000	\$14,000,000	\$5,519,926	\$0	\$0	\$0	\$19,519,926
CRWRRF Plant SCADA Assistance	Reserve	PRJ-17549	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$100,000
CRWRRF Repair/Replace Plant Samplers	Reserve	PRJ-17514	\$10,000	\$10,000	\$20,000	\$20,000	\$10,000	\$10,000	\$70,000
CRWRRF Replace Backflow Preventors	Reserve	149667	\$0	\$0	\$8,500	\$8,500	\$8,500	\$0	\$25,500
CRWRRF Replace Chemical Pumps	Reserve	149667	\$30,000	\$30,000	\$30,000	\$30,000	\$0	\$0	\$90,000
CRWRRF Secondary Treatment Optimization (Ph 2 Wet Weather Capacity)	Bond/Grant	PRJ-17720	\$10,100,000	\$13,000,000	\$12,900,000	\$5,480,350	\$5,000,000	\$0	\$36,380,350
CRWRRF Security Upgrades	Reserve	PRJ-17048	\$150,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
CRWRRF Sewage Meter Replacements	Reserve	149664	\$0	\$20,000	\$0	\$20,000	\$0	\$0	\$40,000
CRWRRF Unplanned Capital Improvement Program	Reserve	149667	\$250,000	\$250,000	\$500,000	\$500,000	\$750,000	\$750,000	\$2,750,000
CRWRRF Vehicle and Equipment Replacement Prgm	Reserve	149667	\$150,000	\$0	\$50,000	\$100,000	\$150,000	\$150,000	\$450,000
CRWRRF Vibration Analysis	Reserve	149667	\$0	\$10,000	\$0	\$10,000	\$0	\$10,000	\$30,000
Rate Funded			\$2,492,926	\$2,874,739	\$3,253,500	\$1,959,500	\$4,323,500	\$3,470,000	\$15,881,239
Bond/Grant Funded			\$25,100,000	\$27,000,000	\$18,419,926	\$5,480,350	\$5,000,000	\$500,000	\$56,400,275
Total			\$27,592,926	\$29,874,739	\$21,673,426	\$7,439,850	\$9,323,500	\$3,970,000	\$72,281,514



Recommendations

Major Maintenance

The recommendation is for the system to increase major maintenance funding over the next few years to allow for rehabilitation and ongoing inspection of the horizontal and vertical assets in the system. For FY2026, the recommendation is to invest \$1.7 million in Major Maintenance work. Output from the asset management software indicates that over the next 20 years investment could be as high as \$10.5 million to maintain the desired level of service. At this time there is a backlog of horizontal assets requiring re-inspection, which is anticipated to be addressed over the next five years.

Capital Improvements

The majority of the assets have surpassed their useful life. The system is estimated to have a replacement value exceeding \$189.3 million. It is recommended that the system invest \$29.9 million on capital improvements in FY2026, with \$2.9 million funded through rates and the remainder through bonds. Over the five-year planning period, the total projected capital is \$72.2 million, of which \$14.9 million is proposed for rate-finance and the remainder bonded. This results in an annual average capital spend rate of \$14.4M.

According to the asset management software, maintaining the desired level of service over the next 20 years may require an investment up to \$414.6 million. This equates to an annual average capital investment of \$20.7 million.

Summary

The Stormwater, Asset Management, and Wastewater (SAW) Program was established in 2013 to help agencies develop, update, and improve asset management plans for their wastewater and stormwater systems. This program provided grants and/or matching funds to assist with this work and move towards financial sustainability.

The majority of assets in the system were inspected between 2016 and 2018 through the SAW Grant program. These inspections identified numerous assets in need of improvement. Critical issues have been addressed while less serious issues have been prioritized and are being resolved. Budgets are based on an evaluation of overall risk and address assets with an unacceptable level of risk or require intervention to ensure risk does not become unacceptable in the near term. To maintain the existing level of service within the system, forecasts indicate that an average of \$20.7 million/year is invested in capital improvements and \$527,000/year is invested in major maintenance items for each of the next 20 years. This is a projected annual spend of \$21.2 million.

A general rule of thumb is to budget a minimum of 1% of a system's replacement value for capital improvements on an annual basis. This assumes all assets to have a 100 year useful life. Since this is not the case, the 1% number will underestimate the needs of vertical assets and overestimate the needs of some horizontal assets. However, this number is useful in guiding discussion on future budget needs during the rate setting process. 1% of the replacement value of the system is currently estimated at \$1.9M.

It is recommended the system approve the proposed \$1.7 million for Major Maintenance and \$2.9 million for rate-financed Capital for FY2026. The comprehensive workplan outlined for this five-year planning window, as detailed in Tables 2 and 3 above, is designed to support both ongoing projects and future initiatives, ensuring the system remains well-maintained and capable of meeting evolving needs.



Appendix A

Detailed Asset Inventory



ASSET SUMMARY

Clinton River WRRF Ch20 - 82686

Structures		Sites	
Type	Count	Type	Count
Drain Catch Basin	11	Retention/Detention Basin	1
Drain Manhole	7	Sewage Dump Site	1
Drain No Structure Inlet	2	Sewage Treatment Facility	2
Drain Pipe Outlet	10	Sewer Flow Meter	4
Sewer Access Manhole	8		
Sewer Cleanout	16		
Sewer Manhole	8		
Sewer Outfall	1		
Sewer System Valve	8		

Line Assets Summary		
	Total Length (FT)	Total Segments
Gravity - Sanitary		
Sewer Gravity Main	6,614	30
Gravity - Storm		
Drain Gravity Main	1,520	24
Non-Gravity - Sanitary		
Force Main	4,769	40
Totals:	12,903	94

Report Date: 03/12/2025



ASSET SUMMARY

Clinton River WRRF Ch20 - 82686

Line Assets by Type		
Material	Length (FT)	Segment Count
Gravity - Sanitary		
Concrete	5,400	22
Metal	1,106	6
Unknown	108	2
Gravity - Storm		
Clay	244	1
Concrete	144	5
Unknown	1,132	18
Non-Gravity - Sanitary		
Metal	601	32
Plastic	4,154	7
Unknown	15	1

Report Date: 03/12/2025

ASSET SUMMARY

Clinton River WRRF Ch20 - 82686

Vertical Assets Summary	
Type	Count
ActuatorNS	55
AntennaNS	1
AntennaStructureNS	2
BlowerNS	20
ChemicalEquipmentNS	9
CommunicationEquipmentNS	3
CompressorNS	6
ConveyorNS	11
DigesterGasEquipmentNS	1
DriveGearNS	18
ElectricEquipmentNS	80
ElevatorHoistNS	5
FacilityMeterNS	5
FilterStrainerNS	4
FlowMeterNS	73
GeneralEquipmentNS	5
GeneratorNS	9
HeatingAndCoolingNS	24
InstrumentationNS	192
LabEquipmentNS	2
MixerNS	6
MotorNS	112
PipingNS	11
PlantValveNS	118
PlumbingNS	40
PumpNS	132
SafetySecurityNS	37
ScreenNS	14
SewerAerationNS	10
SewerClarifierNS	14
SewerThickeningDewateringNS	9
StorageTankNS	75
StructureNS	66
VariableSpeedControlNS	28

3/19/2025

Report Date: 03/12/2025

ASSET SUMMARY

Clinton River WRRF Ch20 - 82686

VentilationNS	38
WetWellNS	3
Total:	1,238

3/19/2025

Report Date: 03/12/2025

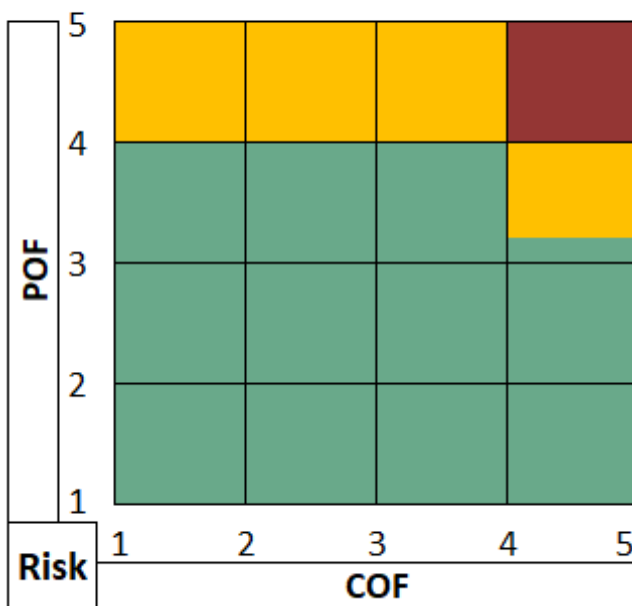
Appendix B

Risk Matrix

Risk can be assessed by identifying assets that do not meet the required Minimum Acceptable Condition (MAC), which is measured as the minimum acceptable Probability of Failure score. The MAC can be adjusted to reflect the determined Level of Service. Systems where financial hardships exist and/or there is a significant amount of previously deferred maintenance may set a higher MAC to better prioritize work within their current budgets, but also carry a higher level of risk. In this way, assets with higher criticality can be prioritized over those with lower criticality, which allows for the most cost-effective means to budget work.

The MAC varies depending on an individual asset's COF. The standard for this system is an MAC of 3.2 for assets that have a COF equal to or greater than 4.0 and an MAC of 4.0 for assets with a COF less than 4.0. The following graphic shows the relationship between POF, COF and Risk.

$$\text{Risk} = \text{COF Total} * \text{POF Total}$$



Scale	
Type	Color
High Risk	Critical assets requiring short-term action. Consider for Current thru Year 2 Projects. Consider use of Emergency Reserve funding.
Significant Risk	Assets requiring medium-term action. Consider for Year 1 -5 Projects.
Tolerable Risk	Assets to be managed using routine procedures. Increase frequency of inspection and/or rehabilitation with rising COF or POF.



Appendix C

High Risk Assets Prioritized for Repair/Replacement or Inspection

Risk	Description	Site	Asset ID	Action/Recommendation
25.0	Area Velocity Flow Meter (MeterID 9323)	Auburn WWTP	1675705	2028 CRWRRF Sewage Meter Replacements
21.9	Sanitary Gravity Main	N/A	980488	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
21.9	Sanitary Gravity Main	N/A	980490	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
21.9	Sanitary Gravity Main	N/A	980493	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
21.9	Sanitary Gravity Main	N/A	980494	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
21.3	Sanitary - Manholes	N/A	980436	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
21.1	Sanitary Gravity Main	N/A	980385	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
21.1	Sanitary Gravity Main	N/A	1500488	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
20.0	Area Velocity Flow Meter (MeterID 9325)	Auburn WWTP	1675706	2025 CRWRRF Effluent Meter Dye Testing
19.3	Sanitary Gravity Main	N/A	980321	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	485473	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	525216	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	525218	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980393	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980432	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980484	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980495	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980499	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980500	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980506	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980513	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980514	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980516	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980519	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980521	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980751	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980752	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	980753	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	981552	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
19.1	Sanitary Gravity Main	N/A	1092783	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
18.2	Sanitary - Manholes	N/A	980749	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
17.3	Sanitary Gravity Main	N/A	525221	2027 CRWRRF Gravity Main CCTV & Manhole Inspection
17.3	Sanitary Gravity Main	N/A	797312	2027 CRWRRF Gravity Main CCTV & Manhole Inspection



Appendix D

Project Summary

Name	Unit	Project Manager	Status	Budget Reference	Project Number	Project Start Year	Project End Year	Cost (Estimated)
CRWRRF WWW Pit Pumps & Piping	CRWRRF	Razik Alsaigh, P.E.	Unreleased		PRJ-17520	2024	2024	\$100,000
CRWRRF Vibration Analysis	CRWRRF	Razik Alsaigh, P.E.	Planning			2026	2030	\$ 30,000
CRWRRF Valve & Gate Replacements	CRWRRF	Razik Alsaigh, P.E.	Active	MM-ALW-3	PRJ-13492	2021	2030	\$270,000
CRWRRF Security Upgrades	CRWRRF	Razik Alsaigh, P.E.	Active	N/A	PRJ-17048	2022	2030	\$200,000
CRWRRF Secondary Treatment Optimization (Ph 2 - Wet	CRWRRF	Razik Alsaigh, P.E.	Active	N/A	PRJ-17720	2024	2029	\$47,915,000
CRWRRF Secondary Treatment Optimization - Design	CRWRRF	Razik Alsaigh, P.E.	Unreleased	N/A	PRJ-17515	2024	2025	\$4,000,000
CRWRRF Replace Ferrous Tank Level Indicators	CRWRRF	Razik Alsaigh, P.E.	Planning			2025	2025	\$ 28,000
CRWRRF Replace Chemical Pumps	CRWRRF	Razik Alsaigh, P.E.	Planning	Extra		2025	2028	\$120,000
CRWRRF Replace Backflow Preventors	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2027	2029	\$ 25,500
CRWRRF Repair/Replace Plant Samplers	CRWRRF	Razik Alsaigh, P.E.	Active	N/A	PRJ-17514	2024	2030	\$ 5,000
CRWRRF Rebuild Ferrous Containment Pump	CRWRRF	Razik Alsaigh, P.E.	Planning			2028	2029	\$ 10,000
CRWRRF Pump Rebuilds FY2021	CRWRRF	Razik Alsaigh, P.E.	Active	21-M43	PRJ-13470	2021	2030	\$105,000
CRWRRF Project Performance Certification (PPC)	Regional Systems	Larry Young, E.I.T.	Planning	MM-ALW-6		2027	2030	\$1,500,000
CRWRRF Process Improvement Study	CRWRRF	Razik Alsaigh, P.E.	Planning			2027	2027	\$500,000
CRWRRF Plant SCADA Assistance	CRWRRF	Razik Alsaigh, P.E.	Active		PRJ-17549	2024	2030	\$ 50,000
CRWRRF Optimization (Ph 1 - Electrical Improvements &	CRWRRF	Razik Alsaigh, P.E.	Active	N/A	PRJ-17461	2024	2027	\$44,900,000
CRWRRF I&C Improvements and Replacements	CRWRRF	Razik Alsaigh, P.E.	Active	21-C65	PRJ-13485	2021	2027	\$ 55,000
CRWRRF Gravity Main CCTV & Manhole Inspection	WWT	Razik Alsaigh, P.E.	Planning	MM-ALW-13		2027	2028	\$ 30,000
CRWRRF Facility Repairs	CRWRRF	Razik Alsaigh, P.E.	Active	21-M40	PRJ-13451	2022	2030	\$ 80,000
CRWRRF Evaluate Sewage Flow Meters	Systems Control	Tess Reynolds	Active	Extra		2025	2025	\$ 20,000
CRWRRF Evaluate Sewage Flow Meters	Systems Control	Tess Reynolds	Planning	MM-ALW-6		2030	2030	\$ 20,000
CRWRRF Evaluate & Repair Grit Blowers 1 & 2 and	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2025	2026	\$120,000



Name	Unit	Project Manager	Status	Budget Reference	Project Number	Project Start Year	Project End Year	Cost (Estimated)
CRWRRF Evaluate & Repair Chemical Tanks 1 & 2	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2027	2029	\$ 60,000
CRWRRF Energy Study	CRWRRF	Razik Alsaigh, P.E.	Active		PRJ-17550	2024	2026	\$276,544
CRWRRF Energy Optimization - Design (Ph 1 - Electrical)	CRWRRF	Razik Alsaigh, P.E.	Unreleased	N/A	PRJ-17239	2023	2024	\$5,000,000
CRWRRF Effluent Meter Dye Testing	Systems Control	Carrie Cox, P.E.	Active	MM-ALW-6		2025	2025	\$ 20,000
CRWRRF East Blvd. Well House Repair	CRWRRF	Razik Alsaigh, P.E.	Active	N/A	PRJ-17078	2022	2026	\$ 30,000
CRWRRF East Blvd. Weirs and Baffles 2019	CRWRRF	Razik Alsaigh, P.E.	Completed	19-M3	PRJ-12921	2019	2024	\$165,000
CRWRRF East Blvd. Replace Well Pump Transformer	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2028	2028	\$ 56,000
CRWRRF East Blvd. Replace Vehicle Bridge 1	CRWRRF	Razik Alsaigh, P.E.	Planning			2029	2030	\$550,000
CRWRRF East Blvd. Replace Storage Pump	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2027	2027	\$ 50,000
CRWRRF East Blvd. Replace Secondary Clarifier 3 Flight	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2030	2030	\$550,000
CRWRRF East Blvd. Replace Secondary Clarifier 2 Flight	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2029	2029	\$550,000
CRWRRF East Blvd. Replace RAS & WAS Pumps	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2026	2027	\$190,000
CRWRRF East Blvd. Replace Mixers for Aeration Tanks 1	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2026	2027	\$150,000
CRWRRF East Blvd. Replace Main Access Drive	CRWRRF	Razik Alsaigh, P.E.	Planning			2026	2029	\$570,000
CRWRRF East Blvd. Replace Flow Meter Downlookers	CRWRRF	Razik Alsaigh, P.E.	Budgeted	Extra		2025	2025	\$ 20,000
CRWRRF East Blvd. Replace EQ Basin Processor Panel	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2026	2026	\$ 20,000
CRWRRF East Blvd. Replace Engineered Valves	CRWRRF	Razik Alsaigh, P.E.	Budgeted	N/A		2025	2030	\$100,000
CRWRRF East Blvd. Replace Engineered Gates	CRWRRF	Razik Alsaigh, P.E.	Active	N/A	PRJ-17722	2024	2030	\$100,000
CRWRRF East Blvd. Replace Drain Pump - Blower	CRWRRF	Razik Alsaigh, P.E.	Budgeted			2025	2025	\$100,000
CRWRRF East Blvd. Replace Diffuser Heads	CRWRRF	Razik Alsaigh, P.E.	Completed	21-C51	PRJ-13469	2021	2024	\$270,000
CRWRRF East Blvd. Replace Aeration Blower 60, Motors	CRWRRF	Razik Alsaigh, P.E.	Budgeted	N/A		2026	2027	\$450,000
CRWRRF East Blvd. Replace 125hp Aeration Blower No.	CRWRRF	Razik Alsaigh, P.E.	Completed	CIP-ALW-3	PRJ-13042	2019	2024	\$385,000
CRWRRF East Blvd. Repair Access Drives	CRWRRF	Razik Alsaigh, P.E.	Active	21-M57	PRJ-13517	2021	2026	\$ 25,000
CRWRRF East Blvd. Overhead River Crossings	CRWRRF	Razik Alsaigh, P.E.	Active	N/A	PRJ-17127	2022	2025	\$115,000
CRWRRF East Blvd. Odor Control Improvements	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2026	2026	\$100,000



Name	Unit	Project Manager	Status	Budget Reference	Project Number	Project Start Year	Project End Year	Cost (Estimated)
CRWRRF East Blvd. Evaluate & Repair Aeration Tank 4	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2029	2029	\$ 30,000
CRWRRF East Blvd. Evaluate & Repair Aeration Tank 3	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2028	2028	\$ 30,000
CRWRRF East Blvd. Evaluate & Repair Aeration Tank 2	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2027	2027	\$ 30,000
CRWRRF East Blvd. Evaluate & Repair Aeration Tank 1	CRWRRF	Razik Alsaigh, P.E.	Planning	N/A		2026	2026	\$ 30,000
CRWRRF East Blvd. Environmental Site Assessment &	CRWRRF	Razik Alsaigh, P.E.	Unreleased	N/A	PRJ-17085	2022	2024	\$150,000
CRWRRF East Blvd. Condition Assessment	CRWRRF	Razik Alsaigh, P.E.	Planning			2026	2027	\$400,000
CRWRRF East Blvd. Blower Building SCADA Signals	CRWRRF	Razik Alsaigh, P.E.	Active		PRJ-17571	2024	2026	\$150,000
CRWRRF East Blvd. Blower Building Replace Boiler	CRWRRF	Razik Alsaigh, P.E.	Planning			2026	2026	\$ 95,000
CRWRRF East Blvd. Blower Building Repair	CRWRRF	Razik Alsaigh, P.E.	Budgeted			2025	2026	\$400,000
CRWRRF East Blvd. 2030 Electrical Assessment	CRWRRF	Razik Alsaigh, P.E.	Planning			2030	2030	\$ 10,000
CRWRRF East Blvd. 2026 Electrical Assessment	CRWRRF	Razik Alsaigh, P.E.	Planning			2026	2026	\$ 10,000
CRWRRF Auburn Waterline Loop (Waterline Metering	CRWRRF	Razik Alsaigh, P.E.	Active	N/A	PRJ-13679	2022	2026	\$650,000
CRWRRF Auburn Ultraviolet (UV) Treatment	CRWRRF	Razik Alsaigh, P.E.	Planning			2028	2029	\$1,000,000
CRWRRF Auburn Tertiary SCADA (OPTO) Improvements	CRWRRF	Razik Alsaigh, P.E.	Completed	21-M3	PRJ-13304	2021	2024	\$260,000
CRWRRF Auburn Replace Digester 2 Cover	CRWRRF	Razik Alsaigh, P.E.	Planning			2029	2030	\$750,000
CRWRRF Auburn Replace Digester 1 Seal	CRWRRF	Razik Alsaigh, P.E.	Budgeted	Extra		2025	2027	\$1,300,000
CRWRRF Auburn Repair Sodium Hypochlorite Storage	CRWRRF	Razik Alsaigh, P.E.	Active	MM-ALW-8	PRJ-17470	2024	2025	\$ 40,000
CRWRRF Auburn Repair Rexnord Gear Boxes 1 & 3	CRWRRF	Razik Alsaigh, P.E.	Active	21-M59	PRJ-13525	2022	2026	\$ 90,000
CRWRRF Auburn Repair Primary Clarifier Tank 3 Floor	CRWRRF	Razik Alsaigh, P.E.	Active	N/A	PRJ-17162	2022	2028	\$115,000
CRWRRF Auburn Repair Centrifuge	CRWRRF	Razik Alsaigh, P.E.	Active	MM-ALW-8	PRJ-17513	2024	2027	\$ 50,000
CRWRRF Auburn Repair Boiler O2 Sensors	CRWRRF	Razik Alsaigh, P.E.	Completed	MM-ALW-8	PRJ-13614	2022	2024	\$ 45,000
CRWRRF Auburn Renovate Tertiary Treatment	CRWRRF	Razik Alsaigh, P.E.	Budgeted	Extra		2025	2030	\$ 2,600,000
CRWRRF Auburn MAHL Analysis	CRWRRF	Razik Alsaigh, P.E.	Active	N/A	PRJ-17047	2022	2025	\$200,000
CRWRRF Auburn Lab Equipment	CRWRRF	Razik Alsaigh, P.E.	Active	21-C49	PRJ-13455	2021	2030	\$ 50,000
CRWRRF Auburn Evaluate & Repair Contact Tanks	CRWRRF	Razik Alsaigh, P.E.	Active	N/A	PRJ-17082	2022	2027	\$ 20,000



Name	Unit	Project Manager	Status	Budget Reference	Project Number	Project Start Year	Project End Year	Cost (Estimated)
CRWRRF Auburn Chemical Enhanced Primary Treatment	CRWRRF	Razik Alsaigh, P.E.	Planning			2027	2028	\$400,000
CRWRRF Auburn Biosolids Management Study	CRWRRF	Razik Alsaigh, P.E.	Unreleased	N/A	PRJ-17070	2022	2024	\$ 50,000
CRWRRF Auburn Biosolids Finishing Projects	CRWRRF	Razik Alsaigh, P.E.	Unreleased	21-C36	PRJ-13429	2021	2024	\$250,000
CRWRRF Auburn Biodrying Demonstration	CRWRRF	Razik Alsaigh, P.E.	Completed	21-C12	PRJ-13338	2021	2024	\$ 49,000
CRWRRF Auburn Additional Biodrying	CRWRRF	Razik Alsaigh, P.E.	Planning	Extra		2025	2030	\$1,700,000
CRWRRF Auburn Add Strainers for Plant Water	CRWRRF	Razik Alsaigh, P.E.	Unreleased	N/A	PRJ-17083	2023	2024	\$ 55,000
CRWRRF Auburn Add Aerators to Contact Tanks 1 & 2	CRWRRF	Razik Alsaigh, P.E.	Completed	N/A	PRJ-13680	2022	2024	\$ 75,000
CRWRRF Asset Mgmt Software Implementation	Asset Management	Jenny Shaw	Budgeted			2024	2025	\$ 72,752
CRWRRF Add Diffusers	CRWRRF	Razik Alsaigh, P.E.	Planning			2028	2030	\$300,000
CRWRRF ACO Storage Tank	CRWRRF	Razik Alsaigh, P.E.	Planning			2030	2033	\$150,000,000
CRWRRF 360 Water Training	CRWRRF	Razik Alsaigh, P.E.	Active	20-M26	PRJ-13243	2021	2030	\$140,000
CRWRRF 2030 Vehicle and Equipment Replacement	CRWRRF	Razik Alsaigh, P.E.	Planning			2030	2030	\$150,000
CRWRRF 2030 Unplanned Major Maintenance	CRWRRF	Razik Alsaigh, P.E.	Planning	MM-ALW-8		2030	2030	\$600,000
CRWRRF 2030 Unplanned Capital Improvement	CRWRRF	Razik Alsaigh, P.E.	Planning	CIP-ALW-2		2030	2030	\$750,000
CRWRRF 2030 PowerPlan Support Cost	Asset Management	Jenny Shaw	Planning	MM-ALW-15		2030	2030	\$153,893
CRWRRF 2029 Vehicle and Equipment Replacement	CRWRRF	Razik Alsaigh, P.E.	Planning			2029	2029	\$150,000
CRWRRF 2029 Unplanned Major Maintenance	CRWRRF	Razik Alsaigh, P.E.	Planning	MM-ALW-8		2029	2029	\$700,000
CRWRRF 2029 Unplanned Capital Improvement	CRWRRF	Razik Alsaigh, P.E.	Planning	CIP-ALW-2		2029	2029	\$750,000
CRWRRF 2029 PowerPlan Support Cost	Asset Management	Jenny Shaw	Planning	MM-ALW-15		2029	2029	\$149,411
CRWRRF 2028 Vehicle and Equipment Replacement	CRWRRF	Razik Alsaigh, P.E.	Planning			2028	2028	\$100,000
CRWRRF 2028 Unplanned Major Maintenance	CRWRRF	Razik Alsaigh, P.E.	Planning	MM-ALW-8		2028	2028	\$600,000
CRWRRF 2028 Unplanned Capital Improvement	CRWRRF	Razik Alsaigh, P.E.	Planning	CIP-ALW-2		2028	2028	\$500,000
CRWRRF 2028 Sewage Meter Replacements	Systems Control	Carrie Cox, P.E.	Planning	CIP-ALW-6		2028	2028	\$ 20,000
CRWRRF 2028 PowerPlan Support Cost	Asset Management	Jenny Shaw	Planning	MM-ALW-15		2028	2028	\$145,059
CRWRRF 2027 Vehicle and Equipment Replacement	CRWRRF	Razik Alsaigh, P.E.	Planning			2027	2027	\$ 50,000



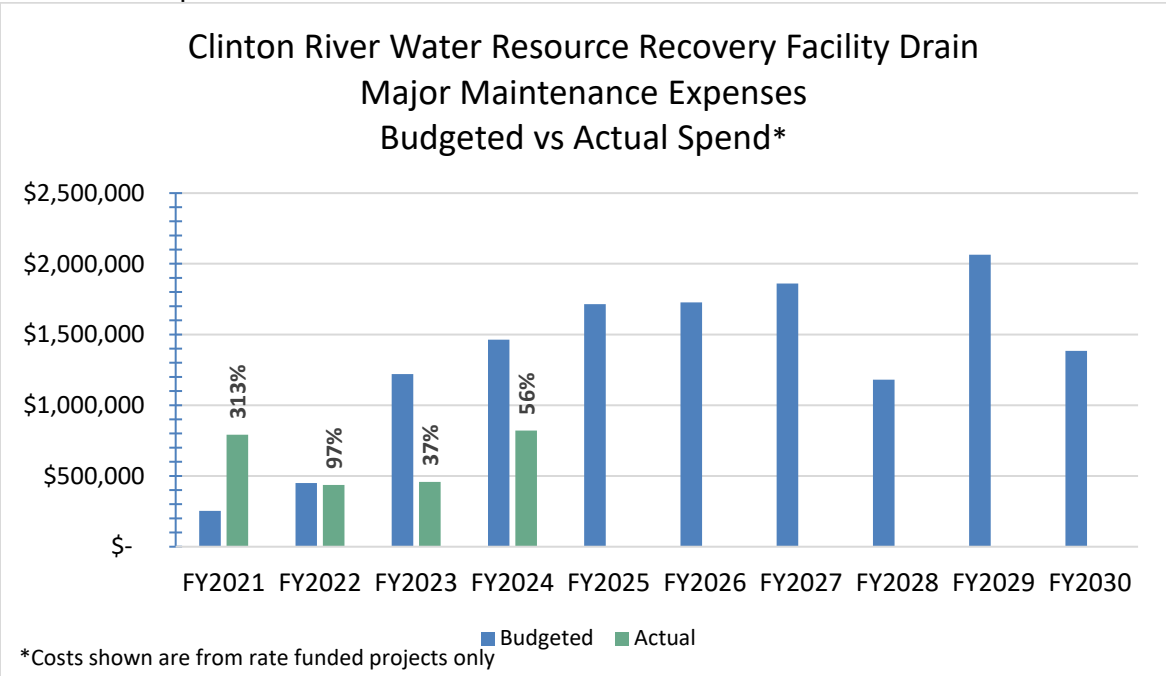
Name	Unit	Project Manager	Status	Budget Reference	Project Number	Project Start Year	Project End Year	Cost (Estimated)
CRWRRF 2027 Unplanned Major Maintenance	CRWRRF	Razik Alsaigh, P.E.	Planning	MM-ALW-8		2027	2027	\$200,000
CRWRRF 2027 Unplanned Capital Improvement	CRWRRF	Razik Alsaigh, P.E.	Planning	CIP-ALW-2		2027	2027	\$500,000
CRWRRF 2027 PowerPlan Support Cost	Asset Management	Jenny Shaw	Planning	MM-ALW-15		2027	2027	\$140,834
CRWRRF 2026 Unplanned Major Maintenance	CRWRRF	Razik Alsaigh, P.E.	Planning	MM-ALW-8		2026	2026	\$200,000
CRWRRF 2026 Unplanned Capital Improvement	CRWRRF	Razik Alsaigh, P.E.	Planning	CIP-ALW-2		2026	2026	\$250,000
CRWRRF 2026 Sewage Meter Replacements	Systems Control	Carrie Cox, P.E.	Planning	CIP-ALW-6		2026	2026	\$ 20,000
CRWRRF 2026 PowerPlan Support Cost	Asset Management	Jenny Shaw	Planning	MM-ALW-15		2026	2026	\$136,732
CRWRRF 2025 Vehicle and Equipment Replacement	CRWRRF	Razik Alsaigh, P.E.	Active			2025	2025	\$150,000
CRWRRF 2025 Unplanned Major Maintenance	CRWRRF	Razik Alsaigh, P.E.	Active	MM-ALW-8		2025	2025	\$200,000
CRWRRF 2025 Unplanned Capital Improvement	CRWRRF	Razik Alsaigh, P.E.	Active	CIP-ALW-2		2025	2025	\$250,000
CRWRRF 2025 PowerPlan Support Cost	Asset Management	Jenny Shaw	Active	MM-ALW-15		2025	2025	\$155,061
CRWRRF 2024 Vehicle and Equipment Replacement	CRWRRF	Razik Alsaigh, P.E.	Completed			2024	2024	\$195,000
CRWRRF 2024 Unplanned Major Maintenance	CRWRRF	Razik Alsaigh, P.E.	Completed	MM-ALW-8		2024	2024	\$150,000
CRWRRF 2024 Unplanned Major Maintenance	CRWRRF	Razik Alsaigh, P.E.	Completed			2024	2024	\$ 10,000
CRWRRF 2024 Unplanned Capital Improvement	CRWRRF	Razik Alsaigh, P.E.	Completed	CIP-ALW-2		2024	2024	\$250,000
CRWRRF 2024 PowerPlan Support Cost	Asset Management	Jenny Shaw	Completed	MM-ALW-15		2024	2024	\$116,282



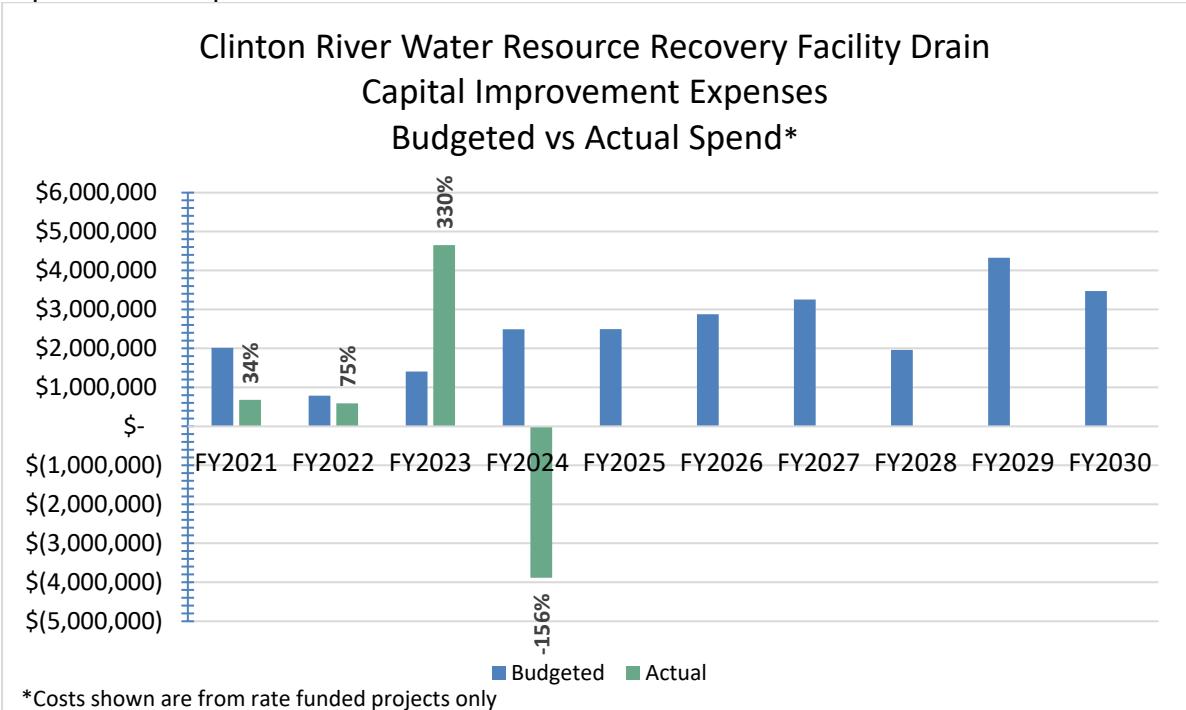
Appendix E

Budgeted vs Actual Expense Comparison

Major Maintenance Expenses



Capital Improvement Expenses



NOTE: In FY2023 basis of design and design were completed for the optimization projects. This design expense was reimbursed through the State Revolving Laon Program in FY2024.

CHANGE ORDER NO. 7

**Jim Nash, Oakland County Water Resources Commissioner
Clinton River Water Resource Recovery Facility Drainage District
For Construction of the CRWRRF Optimization Phase I Project
City Of Pontiac
Oakland County, Michigan**

Authorization for Extras To & Changes In Contract

Department No. : 6010101

Fund No. : FND84686

Project No. : PRJ-17461

Account No. : 731472

Program No. : PRG149015

Project Activity : FAC

Contract PO : PO 00043820

Contractor :

Clark Construction Company

2660 Superior Court

Auburn Hills, MI 48326

Contract No. : 10566

Date of Contract: 10/24/23

Completion Date: 1/30/27

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
7-1	LOCATION: Clinton River Water Resource Recovery Facility - 1) Biosolids Building Upper Floor DESCRIPTION (Extra/Add): Contractor to develop revised layout for the heat exchanger units and provide cores through the block wall with link seal for hot water piping to two heat exchanges and circulating pumps at the building upper floor hallway, as identified on Project Request For Information No. 112 and No. 119 and described in attached Clark Construction Claim #8 dated March 1, 2025.	LS	1.0	\$4,494	\$4,494	---

**JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER**


Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
7-1	REASON: The boiler room is too congested to install the two heat exchanger units and pumps. Locating these units in available space in the upper floor hallway was more appropriate.					
				Totals	\$4,494	\$0
				Net Increase	\$4,494	---

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER


CHANGE ORDER

CHANGE ORDER NO. 7

**Jim Nash, Oakland County Water Resources Commissioner
Clinton River Water Resource Recovery Facility Drainage District
For Construction of the CRWRRF Optimization Phase I Project
City Of Pontiac
Oakland County, Michigan**


Prepared by:  Date: 03/12/2025
Razik Alsaigh, P.E. - WRC Project Engineer

Recommended by:  Date: 3/11/2025
Allen Gelderloos, P.E. Consulting Engineer (Jacobs)

Approved by:  Date: 3/17/2025
Joel Brown, P.E. Chief Engineer

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

Accepted by:  Date: 3/11/2025
Karen M. Middleton, Sr. Project Manager
Clark Construction Company

Approved by:  Date: March 17, 2025
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

CHANGE ORDER NO. 7

**Jim Nash, Oakland County Water Resources Commissioner
Clinton River Water Resource Recovery Facility Drainage District
For Construction of the CRWRRF Optimization Phase I Project
City Of Pontiac
Oakland County, Michigan**

Notice to Proceed Date:	Friday, November 17, 2023
Contract Substantial Completion Date:	Monday, November 16, 2026
Contract Final Completion Date:	Saturday, January 30, 2027
Original Contract Value:	\$ 30,550,434.00
Previous C.O. Values:	\$ 191,468.00
Change Order No. 7 Value	\$ 4,494.00
Adjusted Contract Value	\$ 30,746,396.00

**JIM NASH
OAKLAND COUNTY WATER RESOURCE COMMISSIONER**

Jim Nash, Oakland County Water Resources Commissioner
Clinton River Water Resource Recovery Facility (CRWRRF) Drainage District
For Construction of the CRWRRF Optimization I
City of Pontiac
Oakland County, Michigan

Construction Estimate No. 8

Period: February 1, 2025 to February 28, 2025

Department No. : 6010101
Fund No. : 84686
Project No. : PRJ-17461

PO No. PO 00043820

Account No. : 731472

Program No. : 149015

Activity : FAC

Vendor No. : 40855

Contract No. : CON00010566

Notice to Proceed : 11/17/2023

Substantial Completion Date : 11/16/2026

Final Completion Date : 01/30/2027

Contractor :

Clark Construction Company

2660 Superior Court

Auburn Hills, MI 48326

Original Contract Amount:

\$30,550,434.00

Previous Change Order Numbers (1 through 5):

\$156,397.00

Change Orders This Estimate Numbers (6):

\$35,071.00

Total Net Change Orders:

\$191,468.00 ✓

Adjusted Contract Amount:

\$30,741,902.00

Subtotal To Date: (Sheet 2 of 2 Column 7)

\$10,648,548.33

Less Deductions to Date: (Sheet 2 of 2 Column 7)

\$0.00

Gross Estimate: (Work in Place)

34.64%

\$10,648,548.33

Less Amount Reserved: (10% of Gross Estimate)

\$1,064,854.83 ✓

Total Amount Allowed To Date:

\$9,583,693.50

Less Previous Estimates:

\$7,858,686.41

Net Payment Request To Be Paid To Contractor:

\$1,725,007.09 ✓

Reserve Payment to Contractor

\$0.00

Balance of Contract To Date

\$20,093,353.67 ✓

Accounting Auditor: *KS* 03/12/25

Less Previous Transfers To Reserve:

\$873,187.38

Amount of Current Transfer:

\$191,667.45 ✓

Prepared by:

Razik

Razik Alsaigh, P.E. - Project Engineer

Date:

03/12/2025

Recommended by:

Allen Geldenboos

Jacobs Consultants, Inc. - Consulting Engineer

Date:

3/12/2025

Approved by:

Joel Brown

Joel Brown, P.E. - Chief Engineer

Date:

3/17/2025

Approved by:

Gary Nigro

Gary Nigro, P.E. - Manager

Date:

3/17/2025

Approved by Board on:

Type text here

**Jim Nash, Oakland County Water Resources Commissioner
Clinton River Water Resource Recovery Facility (CRWRRF) Drainage District
For Construction of the CRWRRF Optimization II
City of Pontiac
Oakland County, Michigan**

Construction Estimate No. 2

Estimate Period: February 1, 2025 to February 28, 2025

Department No. : 6010101
Fund No. : 84686
Project No. : PRJ-17720

PO No. PO 00076494
Account No. : 731472
Program No. : 149015
Activity : FAC
Vendor No. : 40855
Contract No. : CON00011282
Notice to Proceed : 10/28/2024
Substantial Completion Date : 10/28/2027
Final Completion Date : 01/26/2028

Contractor :
Clark Construction Company
2660 Superior Court
Auburn Hills, MI 48326

Original Contract Amount: \$35,893,916.00

Previous Change Order Numbers (none): \$0.00

Change Orders This Estimate Numbers (none): \$0.00

Total Net Change Orders: \$0.00

Adjusted Contract Amount: \$35,893,916.00

Subtotal To Date: (Sheet 2 of 2 Column 7) \$523,081.00

Less Deductions to Date: (Sheet 2 of 2 Column 7) \$0.00

Gross Estimate: (Work in Place) 1.46% \$523,081.00

Less Amount Reserved: (10% of Gross Estimate) \$52,308.10

Total Amount Allowed To Date: \$470,772.90

Less Previous Estimates: \$226,476.90

Net Payment Request To Be Paid To Contractor: \$244,296.00

Reserve Payment to Contractor \$0.00

Balance of Contract To Date \$35,370,835.00 Accounting Auditor: *KS* 03/11/25

Less Previous Transfers To Reserve: \$25,164.10

Amount of Current Transfer: \$27,144.00

Prepared by: *Razik Alsaigh*
Razik Alsaigh, P.E. - Project Engineer

Date: 03/12/2025

Recommended by: *Allen Gelderboos*
Jacobs Consulting Inc - Consulting Engineer

Date: 3/12/2025

Approved by: *Joel Brown*
Joel Brown, P.E. - Chief Engineer

Date: 3/17/2025

Approved by: *Gary Nigro*
Gary Nigro, P.E. - Manager

Date: 3/19/2025

Approved by Board on: _____

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the CLINTON RIVER WATER RESOURCE RECOVERY FACILITY DRAIN - (Maintenance)

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting

U for Shawn Phelps

DATE: March 25, 2025

SUBJECT: Request for Approval of Invoices

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

Payable To	Ref No.	For	Amount
USA Blue Book	Mar 2025	Pcard - Lab Supplies # INV00621682	\$ 1,399.42
USA Blue Book	Mar 2025	Pcard - Lab Supplies # INV00621921	1,599.00
USA Blue Book	Mar 2025	Pcard - Lab Supplies # INV00627242	7,916.00
USA Blue Book	Mar 2025	Pcard - Lab Supplies # INV00635626	1,037.99
Kendall Electric	Mar 2025	Pcard - Contracted Services # INV00S115262292.002	1,964.01
Bob Barker	Mar 2025	Pcard - Maintenance Supplies # CS96576	1,842.00
Grainger	Mar 2025	Pcard - Maintenance Supplies # 9371285223	1,126.68
AIS Construction Equipment	V # SINV00326821	Invoice # Y24251 - Contracted Services	2,085.08
Andritz Sparatation Inc	TBP	Invoice # 8480131776 / 02/28/2025 - Equipment Maintenance	28,279.00
D. J. Conley Associates, Inc	V # SINV00316936	Invoice # SI-54176-1 - Material and Supplies	7,527.20
D. J. Conley Associates, Inc	V # SINV00327082	Invoice # SI-54464-1 - Material and Supplies	780.95
Haviland Products Company	V # SINV00324912	Invoice # 531170 - Chemical Treatment	7,451.58
Haviland Products Company	V # SINV00324545	Invoice # 531228 - Chemical Treatment	2,220.00
Haviland Products Company	V # SINV00324914	Invoice # 531398 - Chemical Treatment	6,051.00
Haviland Products Company	V # SINV00327885	Invoice # 532662 - Chemical Treatment	2,220.00
PVS Technologies Inc	V # SINV00321808	Invoice # 372835 - Chemical Treatment	5,221.92
PVS Technologies Inc	V # SINV00322879	Invoice # 373156 - Chemical Treatment	2,793.12
PVS Technologies Inc	V # SINV00326346	Invoice # 373986 - Chemical Treatment	5,998.08
PVS Technologies Inc	V # SINV00326076	Invoice # 374106 - Chemical Treatment	2,963.40
PVS Technologies Inc	V # SINV00327221	Invoice # 374358 - Chemical Treatment	4,968.48
Saber Building Services Inc	V # SINV00324547	Invoice # 46578 - Contracted Services - March 2025	1,800.00
Waste Management	TBP	Invoice # 8836110 -1714-5 Garbage & Rubbish Disposal	2,043.56
Waste Management	TBP	Invoice # 8836125 -1714-3 Garbage & Rubbish Disposal	1,660.00
		Subtotal \$	100,948.45
Jacobs	V # SINV00326345	Invoice # C6A19600-22- Engineering & Survey - Proj # 1-7550	21,934.14
		Subtotal - Project 1-7550 \$	21,934.14
Tetra Tech, Inc	V # SINV00327223	Invoice # 52389348 - Engineering & Survey - 02/21/25 - Proj # 1-7571	\$ 5,855.00
Commerce Conrtols Inc	TBP	Invoice # 1 - Contracted Services - 02/28/25 - Proj # 1-7571	\$ 150,382.00
		Subtotal - Project 1-7571 \$	156,237.00
Eurofins	V # SINV00326349	Invoice # 1900056047- Lab Fees - Proj 1-7047	\$ 22,628.00
		Subtotal - Project 1-7047 \$	22,628.00
CAMBI Inc	V # SINV00326658	Invoice # 609810-SP-050 - Contracted Services - Proj # 1-3470	\$ 3,648.00
		Subtotal - Project 1-3470 \$	3,648.00
Hubbell Roth & CLark	V # SINV00290790	Invoice # 0224987 - Contracted Services - 02/1/25 Proj # 1-3679	\$ 3,613.28
		Subtotal - Project 1-3679 \$	3,613.28
		Grand Total \$	309,008.87

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
OCWRC Accounting

HP for Shawn Phelps

DATE: March 25, 2025

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

	Ref No.	For	Amount
CSM Mechanical	V # SINV00326347	Invoice # 4719 - Project Construction & Improvement - Proj #1-2181	\$ 3,225.27
NTH Consultants Ltd	V # SINV00326152	Invoice # 638513- Engineering Admin - 02/28/25 - Proj # 1-2181	3,431.80
		Total for Project # 1-2181	\$ 6,657.07
Jacobs Consultant, Inc	V # SINV00326829	Invoice # C6A21700-26 - Engineering and Survey - 02/21/25 - Proj # 1-7461	\$ 75,531.05
		Total for Project # 1-7461	\$ 75,531.05
Jacobs Consultant, Inc	V # SINV00326833	Invoice # C6A21702-13 - Engineering and Survey - 01/25/25 - 02/21/25 - Proj #1-772	\$ 58,439.84
PMA Consultants	V # SINV00327225	Invoice # 04582.00-2.0-1 - Contracted Services - 3/31/25 - Proj #1-7720	\$ 5,173.31
PMA Consultants	V # SINV00327487	Invoice # 04582.00-2.0-2 - Contracted Services - 2/28/25 - Proj #1-7720	\$ 1,339.91
		Total for Project # 1-7720	\$ 64,953.06
		Total	\$ 147,141.18

7. City of Pontiac Wastewater Treatment Facility

AGENDA
DRAINAGE BOARD FOR
THE CITY OF PONTIAC WASTEWATER TREATMENT FACILITY

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2025
3. Public Comments
4. Present Debt Assessment Recommendation and Special Assessment Roll for the Debt in the amount of \$2,642,743
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE CITY OF PONTIAC WASTEWATER TREATMENT FACILITY**

February 25, 2025

A meeting of the Drainage Board for the City of Pontiac Wastewater Treatment 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 25th day of February 2025.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Linne Taylor for 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 June 25, 2024, were presented for consideration. It was moved by Taylor, 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 motion was made by Woodward, supported by Taylor, to enter into closed session at 3:34 p.m. to consider an attorney-client memorandum exempt from discussion or disclosure pursuant to section 8(h) of the Freedom of Information Act.


ADOPTED: Yeas - 3
Nays - 0

Chairperson Nash declared the closed session ended at 3:48 p.m.

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

ADOPTED: Yeas - 3
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 Drainage Board for the City of Pontiac Wastewater Treatment Facility, Oakland County, Michigan, held on the 25th day of February 2025, 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 City of Pontiac Wastewater Treatment Facility Drainage District.



Jim Nash, Chairperson

Dated: February 25, 2025

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

DEBT ASSESSMENT RECOMMENDATION FOR THE

Pontiac WWTF Drain

Debt Assessment

Revenue Requirements:

Debt Service	\$ 4,786,710.00
Total Revenue Requirements	<u>\$ 4,786,710.00</u>
Non-Rate Revenue	<u>-</u>
Rate Required Revenue	<u>\$ 4,786,710.00</u>

Recommended July 1, 2025 through June 30, 2026 assessment:

Total Anticipated Expenses for July 1, 2025 - June 30, 2026	\$ 4,786,710.00
Revenue from COSDS Contract	<u>\$ (2,143,967.00)</u>
Total Anticipated Funds Needed	<u>\$ 2,642,743.00</u>

TOTAL RECOMMENDED ASSESSMENT

\$ 2,642,743.00

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

Prepared by: Raphael Chiolla
Raphael Chiolla - WRC Financial Services

Date: 3/19/2025

Approved by: Gary Nigro
Gary Nigro - Manager, Water Resources Commissioner

Date: 3/21/2025

**SPECIAL ASSESSMENT ROLL FOR THE DEBT
OF THE PONTIAC WWTF DRAIN**

Public Corporation	Percentage of Apportionment	Total Amount of Assessment
City of Pontiac	100.00%	\$ 2,642,743
Total	100.00000%	\$ 2,642,743

*Apportionment based on Final Order of Apportionment dated July 17, 2012.

Assessment Due Date for the Debt: To be collected as the debt invoices are invoiced to Oakland County

I hereby certify that I have prepared the Special Assessmnt Roll for the Debt of the Pontiac WWTF Drain for the period July 1, 2025 through June 30, 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 Pontiac WWTF Drain

The foregoing Special Assessment Roll for the Debt of the Pontiac WWTF Drain was approved by the Drainage Board on _____.

Jim Nash
Chairman of the Drainage Board for the Pontiac WWTF Drain

8. Augusta Drain

AGENDA

DRAINAGE BOARD FOR THE AUGUSTA DRAIN

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2025
3. Public Comments
4. Present Memorandum from Geoff Wilson, P.E., Chief Engineer, dated March 25, 2025, requesting the Board amend the HRC consulting engineering budget to \$286,500 per the attached letter and amend the total project budget to \$1,517,490
5. Present Engineering Work Order No. 2 for Hubbell, Roth, and Clark for the Augusta Drain Project - Norton Street to increase contract no. CON00009188 by a not-to-exceed amount of \$73,721.92
6. Present Change Order No. 1 for Natural Community Services for Construction of the Augusta Drainage Improvements – Riparian & Vegetative Buffer Strip for a net decrease in the amount of \$120.00
7. Present Change Order No. 2 for T.R. Pieprzak Co. for Construction of the Augusta Drain Norton Street Innovation Project for a net increase in the amount of \$120,281.68
8. Present Construction Estimate No. 1 for Trojan Development Company, Inc for the Augusta Drainage District Improvements - Drop Fall Structure Reconstruction in the amount of \$148,255.89 with a transfer to the Oakland County Treasurer in the amount of \$16,472.88
9. Present Construction Estimate No. 1 for Natural Community Services for Construction of the Augusta Drainage Improvements - Riparian & Vegetative Butter Strip in the amount of \$44,666.02 with a transfer to the Oakland County Treasurer in the amount of \$4,621.48
10. Present Construction Estimate No. 2 for Pamar Enterprises for Construction of the Augusta Drainage District Improvements - Storm System Rehabilitation in the amount of \$118,901.61 with a transfer to the Oakland County Treasurer in the amount of \$13,211.29
11. Other business
12. Approve pro rata payment to Drainage Board members
13. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE AUGUSTA DRAIN**

February 25, 2025

A meeting of the Drainage Board for the Augusta 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 25th day of February 2025.

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

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

ABSENT: None.

Minutes of the meeting held January 28, 2025, were presented for consideration. It was moved by Taylor, 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.

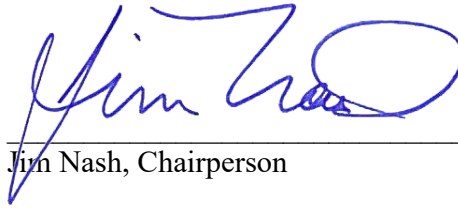
Construction Estimate No. 1 for Pamar Enterprises for Construction of the Augusta Drain Drainage District Improvements - Storm System Rehabilitation in the amount of \$38,476.80 with a transfer to the Oakland County Treasurer in the amount of \$4,275.20 was presented. It was moved by Taylor, supported by Woodward, to approve Construction Estimate No. 1 for Pamar Enterprises for Construction of the Augusta Drain Drainage District Improvements - Storm System Rehabilitation in the amount of \$38,476.80 with a transfer to the Oakland County Treasurer in the amount of \$4,275.20 as presented.

ADOPTED: Yeas - 3
Nays - 0

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

ADOPTED: Yeas - 3
Nays - 0

There being no further business, the meeting was adjourned.

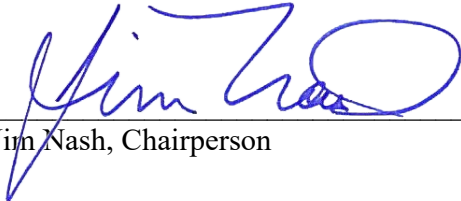
A handwritten signature in blue ink, appearing to read "Jim Nash", is positioned above a horizontal line. The signature is stylized with a large, circular flourish at the end.

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 Augusta Drain, Oakland County, Michigan, held on 25th day of February 2025, 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 Augusta Drain Drainage District.



Jim Nash, Chairperson

Dated: February 25, 2025

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER****MEMORANDUM**

TO: Jim Nash, Chairperson of the Augusta Drain Drainage Board

FROM: Geoff S. Wilson, P.E. – Chief Engineer

SUBJECT: Augusta Drain CWSRF Repairs – Consulting Engineer Budget Amendment and Total Project Budget Amendment

DATE: March 25, 2025

The Augusta Drain CWSRF Repairs project was bid in September 2024 with only one responsive bidder. The bid amount was \$1,857,660.14, against an initial engineering estimate of \$769,000. Staff elected to continue with the same scope of work but to rebid the project as three smaller projects (dropfall structure reconstruction, storm system rehabilitation, and riparian buffer strip improvements). Bids were received for the three projects in November 2024, with each project receiving three bids. The sum of the project low bids total \$1,038,129.94. The total CWSRF grant is for \$920,000. EGLE staff informed WRC staff that additional grant funds were not available to cover the overrun.

Hubbel, Roth, and Clarke, Inc. (HRC) has provided engineering services for all contracts of the project. HRC is requesting an updated consulting engineering budget. Staff is agreeable to the request and has worked with HRC to define the scope throughout all phases of this project. A total project budget is enclosed, with individual budgets by construction contract broken out as well.

Requested Action:

- 1.) Amend the HRC consulting engineering budget to \$286,500 per the enclosed letter.
- 2.) Amend the total project budget to \$1,517,490.



February 17, 2025

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

Attn: Mr. Geoff Wilson, P.E., Chief Engineer

Re: Augusta Drain Drainage District Improvement
Professional Engineering Services–REVISED **Request for Budget Amendment**
Clean Water State Revolving Fund Project No. 5896-01

HRC Job No. 20220896

Dear Mr. Wilson:

Oakland County Water Resources Commissioner (OCWRC) awarded Hubbell, Roth & Clark, Inc. (HRC) \$151,000 contract in January 2024 to perform the engineering services for the Augusta Drain Improvement Grant project. OCWRC was awarded American Rescue Plan (ARP) grant funding for FY24 in no-match funding to improve the Augusta Drain.

The aforementioned project was initially advertised for bids on August 8, 2024. OCWRC received two bids, with the bid amounting to \$898,157.65 and the other \$1,857,660.14. The lowest bid failed to accurately account for the scope of work related to the drop fall structure, which is a critical component of the project. Meanwhile, the second bid exceeded the grant allocation for the project. In light of these discrepancies, OCWRC has decided to split the project into three smaller, distinct projects. This decision was made to address the varied nature of the work involved and to increase the likelihood of receiving more competitive bids.

The Augusta Drain Improvement projects were subsequently advertised for bids and received responses on November 12, 2024, with three separate components:

- ≡ **Drop Fall Reconstruction Project:** Three bids were received, with the lowest bid totaling \$491,112.50.
- ≡ **Storm System Rehabilitation Project:** Three bids were received, with the lowest bid amounting to \$454,587.94.
- ≡ **Riparian Buffer Strip Improvements along Osmun Lake:** Three bids were received, with the lowest bid totaling \$92,429.50.

In the professional engineering services proposal dated December 18, 2023, HRC requested \$75,000 to assist OCWRC with *Phase A- Preliminary Engineering and Design Phase Services*, and \$76,000 to assist with *Phase B- Bidding and Construction Phase Services*. The requested fee for Construction services was based on the proposed improvements identified during the planning phase. Now that the design phase is complete and the projects have been advertised for bid, OCWRC has asked HRC to reevaluate the estimate for the CE services.

This proposal letter outlines the additional efforts completed for Phase A, which covers engineering services, as well as updated Phase B, which pertains to Construction Engineering (CE) services.

Phase A- Preliminary Engineering and Design Phase Services

The original scope of the engineering services was based on the projects outlined in FY24 CWSRF Project Plan and identified in Asset Management Plan developed for Augusta in 2019. However, as preliminary design and further site assessment progressed, a more substantial rehab design was defined that has led to altering the scope of the project.

As a result, in completing professional engineering services HRC has undertaken additional services to address these scope changes, that led to increased project costs. The additional tasks and associated efforts are detailed below:

The initial proposed improvements outlined in the proposal, included rehabilitating drop fall structure, pipe repairs (spot lining and grouting) manhole repairs, and constructing buffer strip adjacent to the Osmun Lake within North Kiwanis Park.

However, upon further review and assessment, additional work was identified.

- ≡ **Storm Pipe Point Repair:** As the preliminary design progressed, we identified five segments of pipes that cannot be repaired using trenchless techniques such as grouting and spot lining as recommended in the initial plan. These segments required trench excavation and replacement. Shifting from trenchless methods to pipe replacement introduced additional work beyond the original scope. Consequently, the HRC team dedicated an additional 25 hr to develop construction plans and cost estimates for these five segments of storm pipe.

A total cost of \$3,000 is requested for extra work to complete construction documents for five segments that require trench excavation.

≡ **Drop Fall Structure:**

- **Geotechnical Support provided by Subconsultant:** In the proposal dated December 18, 2023, \$5,000 was delegated for the soil boring and geotechnical support provided by a subconsultant. However, the conducted soil boring and geotechnical support for sheet piling design by G2 cost \$10,500, which exceeded the initial budget allocated for this task. Due to the site's surrounding soils, deeper soil borings were necessary, which raised the cost. The recent soil boring results revealed the need for deeper and larger sheet piling, as well as significantly greater lateral loads than initially expected. As a result, a sheet piling design was required by G2 Consulting Group. **A total additional cost of \$5,500 is requested for geotechnical support provided by the subconsultant, G2 Consulting Group, LLC.**
- **HRC Additional Efforts:** The initial recommendation for the Drop Fall structure was to repair the existing structure. However, further structural assessments and the lateral loads provided by G2 revealed that the structure needs to be replaced. This change in scope from repair to complete replacement required us to perform additional design iterations to minimize the risk for damaging the adjacent structures. Additionally, during the design phase, we discovered a 36" pipe near the Drop Fall structure that could be affected by the replacement work. Due to uncertainties regarding the purpose and ownership of this pipe, the HRC team conducted an extra site visit and provided the relevant information to the OCWR staff. **A total cost of \$3,000 is requested for the HRC Team for the Drop Fall Structure Replacement project.**

A total cost of \$8,500 is requested for additional effort for the Drop Fall Structure Replacement.

- ≡ **Buffer Strip:** The proposed buffer strip is located on the south side of Osmun Lake within North Kiwanis Park. The park is a city owned park. HRC has spent extra effort to coordinate with the City's Parks and Recs staff regarding the proposed buffer strip location. The original scope of work was one virtual meeting with the City. However, we attended a second meeting in person.

A total cost of \$1,000 (or extra 8 hr) is requested for meetings and additional follow-ups with the City.

Based on the above breakdown, we are requesting an amendment in the amount of \$12,500 for completing services for Phase A, which would bring the total amended budget to \$87,500. Overall, we hereby request a contract adjustment to cover our added costs.

Phase B- Bidding and Construction Phase Services

In the professional engineering services proposal dated December 18, 2023, HRC requested \$76,000 to assist OCWRC with the bidding process and provide construction engineering (CE) services. The estimated fee for Phase B was based on the proposed improvements identified during the planning phase. Now that the design phase is complete and the project has been advertised for bid, we are revisiting Phase B estimates.

≡ Bidding Services:

HRC Team assisted OCWRC during the first bidding phase, from advertising to pre-award meeting with a low bidder. Augusta Drain Improvement project was advertised for bids on August 08, 2024, with a pre-bid meeting conducted on August 15, 2024. The HRC Team addressed contractors' inquiries and issued an addendum as necessary. Following the bid opening on September 05, 2024, the HRC Team reviewed the submitted bids, prepared the bid tab, and held a pre award meeting with the lowest bidder on September 19. Since the lowest bid underestimated the scope of work for the drop fall structure, which is a critical component of the project, and the second bid exceeded the project's grant allocation, OCWRC decided to divide the project into three parts and rebid the projects.

Bidding Service Completed=\$1,700

≡ Re-Bidding Services:

For the re-bidding purposes, HRC Team has revised and broken down the bid documents including the plan and specifications into three projects, and assisted OCWRC during the second bidding phase, from advertising to contractor selection. All Augusta Drain Improvement projects were re-advertised for bids on October 17, 2024. The HRC Team addressed contractors' inquiries and issued an addendum as necessary.

Spent Sep 30 through November 09, 2024= \$6,700

Following the bid opening on November 12, 2024, the HRC Team has been reviewing the submitted bids and preparing the bid tabs. HRC will hold a pre award meeting with the lowest bidders for each project, and ultimately provide recommendation letters for the ward to OCWRC. The team will also review the insurance documents and bid bonds submitted by the lowest bidders, as well as preparing three Notice of Intent to Award Letters for all three projects.

Remaining=\$6,600

The bidding and re-bidding services fee, which include completed tasks until November 09 and the remaining tasks for all three projects, totals \$15,000.

≡ Construction Phase Services:

The following tasks were considered under construction phase services for each project:

- Responding to contractor inquiries during the projects.
- Reviewing all design submittals.
- Review post-lining submittals to ensure completeness.
- Preparing change orders as needed.
- HRC will provide daily observation.
 - 330 hours for Drop Fall Reconstruction project
 - 300 hours for Storm System Rehab project
 - 48 hours for Buffer Strip project
- Preparing a final punch list and project close-out documents.

- Reviewing quantities and preparing pay estimates based on quantities. Assuming one pay estimate for each month.
- Perform material testing
 - Drop Fall Reconstruction Project:
 - Two sets of concrete tests, will be completed by HRC
 - Welding tests: \$7,000 was also considered for the welding test that will be performed by a sub-contractor.
 - Vibration monitoring: \$12,000 was included for the vibration monitoring that will be performed by a sub-contractor.
 - Storm System Rehab Project:
 - Four locations for aggregate base, HMA, and sand backfill
 - Buffer Strip project
 - No material testing included
- Perform Construction Layout
 - Drop Fall Reconstruction project: 10 hr for the construction layout
 - Storm System Rehab project: 35 hr for preparing the existing topo and construction layout
 - Buffer Strip project: no construction layout included

Our original proposal for Construction Engineering (CE) services was developed based on the work identified during the planning phase, prior to establishing the definitive scope of work. At that time, we estimated that the observation services would require approximately 200 hours. However, following the completion of the design and the subsequent rebidding process, during which we interviewed the lowest bidders, we now anticipate that the observation services will require approximately 678 hours.

The CE services are estimated to be \$184,000, which is about 18% of total construction costs for all three projects. Both bidding phases are at \$15,000, which puts us at \$199,000 for Phase B. The breakdown of estimated cost is attached.

We are requesting an amendment in the amount of \$135,500 to complete Phase A and Phase B for the Augusta Drain Improvement project to our budget, which would bring the total budget for total engineering services to \$286,500. Overall, we hereby request a contract adjustment to cover our added costs.

The table below summarizes the request budget amendment for both phases A and B.

Engineering Services	Proposal Dated Dec 18, 2023, Approved Jan 23, 2024	Requested Budget Amendment	Revised Proposal
Phase A- Preliminary Engineering and Design Phase Services	\$75,000	\$12,500	\$87,500
Phase B- Bidding and Construction Phase Services	\$76,000	\$123,000	\$199,000
Total	\$151,000	\$135,500	\$286,500

The OCWRC will be billed for actual services rendered at our standard hourly rates. If you have any questions or require any additional information, please contact the undersigned.

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

Very truly yours,

HUBBELL, ROTH & CLARK, INC.



Karyn Stickel, P.E.
Senior Associate



Fatemeh Babakhani, P.E.
Manager

pc: HRC; File
FB

Accepted By:

Signature: _____

Written Name: _____

Title: _____

Dated: _____

TASK NO.	TASKS BY PHASE	QA/QC		PROJECT MANAGER		STRUCTURAL MANAGER		LANDSCAPE ARCHITECT		GRAD ENGINEER		CADSupports		STAFF ENGINEER		Survey		Material Testing		Observer supervisor		GRAD ENGINEER					
	Augusta	Karyn Stickel		Fatemeh Babakhani		Rich Nacey		Mike Donnellon		Natalie Sheen		Chuck Bissell		Krista Schoonveld						Bill PennyCook		Observation					
		HOURS	RATE	HOURS	RATE	HOURS	RATE	HOURS	RATE	HOURS	RATE	HOURS	RATE			HOURS	RATE	HOURS	RATE	HOURS	RATE	HOURS	RATE	FEES	HOURS	COSTS	
3.0	Bidding Services – ESA [BID DC -391], Acc 11	2.5	\$ 455.00	4	\$ 580.00	1	\$ 185.00		\$ -	5	\$ 500.00														12.5	\$ 1,720.00	
3.0	ReBidding Services – ESA [BID DC -391], Acc 22																										
NA	Split the plan and specs into three contract documents	1	\$ 182.00	10	\$ 1,450.00		\$ -		\$ -	10	\$ 1,000.00	20	\$ 2,200.00	0.5	\$ 60.50		\$ -		\$ -		\$ -		\$ -			41.5	\$ 4,892.50
3.1	Assist the Owner in Publicizing three (3) Projects		\$ -	3	\$ 435.00		\$ -		\$ -	3	\$ 300.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			6	\$ 735.00
3.3	Issue Clarifications of Bid Documents as Addenda		\$ -	4	\$ 580.00		\$ -		\$ -	5	\$ 500.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			9	\$ 1,080.00
3.5	Attend the Bid Opening for three (3) Projects		\$ -	2	\$ 290.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			2	\$ 290.00
3.6	Evaluate and Identify Bids for three (3) Projects		\$ -	8	\$ 1,160.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			8	\$ 1,160.00
NA	Review Insurance Documents for three (3) Projects		\$ -	10	\$ 1,450.00		\$ -		\$ -	10	\$ 1,000.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			20	\$ 2,450.00
3.8	Contact and Interview References three (3) Projects		\$ -	1	\$ 145.00		\$ -		\$ -	3	\$ 300.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			4	\$ 445.00
3.9	Three Pre-Award Meeting	1	\$ 182.00	3	\$ 435.00	1	\$ 185.00		\$ -	3	\$ 300.00		\$ -	1	\$ 121.00		\$ -		\$ -		\$ -		\$ -			9	\$ 1,223.00
3.1	Provide Three Written Recommendation as to Award	1	\$ 182.00	4	\$ 580.00		\$ -		\$ -	6	\$ 600.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			11	\$ 1,362.00
	Subtotal																									\$ 13,637.50	
PROJECT ONE- DROP FALL RECONSTRUCTION																											
4.0	Construction Phase Services [CON DC-391]																										
4.3	Pre-Construction Meeting	2	\$ 364.00	4	\$ 580.00	2	\$ 370.00		\$ -	4	\$ 400.00		\$ -		\$ -		\$ -		\$ -	2	\$ 276.00		\$ -			14	\$ 1,990.00
	Contract Admin and Review Submittals		\$ -	10	\$ 1,450.00		\$ -		\$ -	10	\$ 1,000.00		\$ -	140	\$ 16,940.00		\$ -		\$ -		\$ -		\$ -			160	\$ 19,390.00
4.8	Construction Field Management		\$ -	20	\$ 2,900.00	4	\$ 740.00		\$ -	10	\$ 1,000.00		\$ -	100	\$ 12,100.00		\$ -		\$ -	20	\$ 2,760.00		\$ -			154	\$ 19,500.00
4.8	Full-Time Inspection		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	330	\$ 33,000.00			330	\$ 33,000.00
4.29	Construction Testing Services		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	20	\$ 2,000.00		\$ -		\$ -	\$ 19,000.00	20	\$ 21,000.00	
5.0	Construction Surveying and Layout [CC-392 SUR]																										
5.1	Construction Layout		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	10	\$ 1,450.00		\$ -		\$ -		\$ -			10	\$ 1,450.00
	Subtotal																									\$ 96,330.00	
PROJECT TWO- STORM SYSTEM REHAB																											
4.0	Construction Phase Services [CON DC-391]																										
4.3	Pre-Construction Meeting	2	\$ 364.00	4	\$ 580.00		\$ -		\$ -	4	\$ 400.00		\$ -		\$ -		\$ -		\$ -	2	\$ 276.00		\$ -			12	\$ 1,620.00
	Contract Admin and Review Submittals		\$ -	20	\$ 2,900.00		\$ -		\$ -	80	\$ 8,000.00	16	\$ 1,760.00		\$ -		\$ -		\$ -		\$ -		\$ -			116	\$ 12,660.00
4.8	Construction Field Management		\$ -	70	\$ 10,150.00		\$ -		\$ -	40	\$ 4,000.00		\$ -		\$ -		\$ -		\$ -	20	\$ 2,760.00		\$ -			130	\$ 16,910.00
4.8	Full-Time Inspection		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	300	\$ 30,000.00			300	\$ 30,000.00
4.29	Construction Testing Services		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	40	\$ 4,000.00		\$ -		\$ -			40	\$ 4,000.00
5.0	Construction Surveying and Layout [CC-392 SUR]																										
5.1	Construction Layout		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	35	\$ 5,075.00		\$ -		\$ -		\$ -			35	\$ 5,075.00
	Subtotal																									\$ 70,265.00	
PROJECT THREE- BUFFER STRIP																											
4.0	Construction Phase Services [CON DC-391]																										
4.3	Pre-Construction Meeting		\$ -	4	\$ 580.00		\$ -	2	\$ 334.00	4	\$ 400.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			10	\$ 1,314.00
	Contract Admin and Review Submittals		\$ -	10	\$ 1,450.00		\$ -	20	\$ 3,340.00	8	\$ 800.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			38	\$ 5,590.00
4.8	Construction Field Management		\$ -	16	\$ 2,320.00		\$ -	18	\$ 3,006.00		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			34	\$ 5,326.00
4.8	Full-Time Inspection		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	48	\$ 4,800.00			48	\$ 4,800.00
4.29	Construction Testing Services		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -			0	\$ -
5.0	Construction Surveying and Layout [CC-392 SUR]																										
5.1	Construction Layout		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -		\$ -	0	\$ -	0	\$ -		\$ -		\$ -			0	\$ -
5.1	Subtotal																									\$ 17,030.00	
	TOTALS	9.5	\$ 1,729.00	207	\$ 30,015.00	8	\$ 1,480.00	40	\$ 6,680.00	205	\$ 20,500.00	36	\$ 3,960.00	241.5	\$ 29,221.50	45	\$ 6,525.00	60	\$ 6,000.00	44	\$ 6,072.00	678	\$ 67,800.00	\$ 19,000.00	1574	\$ 198,982.50	

AUGUSTA DRAIN CWSRF REPAIRS
ESTIMATE OF PROJECT 17557 COSTS
REVISED: February 13, 2025

	Project Costs
1) Contracted Services: Construction Cost (as-bid)	
a Drop Fall Structure	\$ 491,113
b Storm Drain and Structure Rehab	\$ 454,588
c Shoreline Restoration	\$ 92,430
Subtotal Construction Cost	\$ 1,038,130
2) Engineering Consultants	
a Design Phase	\$ 87,500
b Construction Administration, Inspection, Surveying	\$ 187,000
c Scheduling Consultant for Large Projects	
d Vibration Monitoring	\$ 12,000
e	
f	
Subtotal Engineering Consultants	\$ 286,500
3) Legal & Financial	
a Easements	\$ 3,000
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	
Subtotal Legal & Financial	\$ 3,000
4) County Services:	
a Administration & General (ADM)	\$ 10,381
b Engineering (ENG)	\$ 20,763
c Right-Of-Way (ROW)	\$ 20,763
d Construction Inspection (INS)	
e GIS Mapping (ADM)	
f Operation Staff (STD) (Shutdowns, Training New Facilities, etc.)	
g Survey (SUR)	
Subtotal County Services	\$ 51,906
Project Subtotal	\$ 1,379,536
5) 10% Construction Contingency	\$ 137,954
6) Less Anticipated Grant Funds	\$ 920,000
7) Total Project Cost	\$ 597,490
Send completed estimate to Fiscal Services to be loaded in CIP People Soft Budget Report	

**AUGUSTA DRAIN CWSRF REPAIRS
ESTIMATE OF PROJECT 17557 COSTS
REVISED: February 13, 2025**

	Project Costs
1) Contracted Services: Construction Cost (as-bid)	
a Drop Fall Structure	\$ 491,113
Subtotal Construction Cost	\$ 491,113
2) Engineering Consultants	
a Design Phase	\$ 41,394
b Construction Administration, Inspection, Surveying	\$ 91,072
c Scheduling Consultant for Large Projects	
d Vibration Monitoring	\$ 12,000
e	
f	
Subtotal Engineering Consultants	\$ 144,466
3) Legal & Financial	
a Easements	\$ 1,000
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	
Subtotal Legal & Financial	\$ 1,000
4) County Services:	
a Administration & General (ADM)	\$ 4,911
b Engineering (ENG)	\$ 9,822
c Right-Of-Way (ROW)	\$ 9,822
d Construction Inspection (INS)	
e GIS Mapping (ADM)	
f Operation Staff (STD) (Shutdowns, Training New Facilities, etc.)	
g Survey (SUR)	
Subtotal County Services	\$ 24,556
Project Subtotal	\$ 661,134
5) 10% Construction Contingency	\$ 66,113
6) Less Anticipated Grant Funds	\$ 425,835
7) Total Project Cost	\$ 301,413
Send completed estimate to Fiscal Services to be loaded in CIP People Soft Budget Report	

AUGUSTA DRAIN CWSRF REPAIRS
ESTIMATE OF PROJECT 17557 COSTS
REVISED: February 13, 2025

	Project Costs
1) Contracted Services: Construction Cost (as-bid)	
b Storm Drain and Structure Rehab	\$ 454,588
Subtotal Construction Cost	\$ 454,588
2) Engineering Consultants	
a Design Phase	\$ 38,315
b Construction Administration, Inspection, Surveying	\$ 77,531
c Scheduling Consultant for Large Projects	
d Vibration Monitoring	
e	
f	
Subtotal Engineering Consultants	\$ 115,846
3) Legal & Financial	
a Easements	\$ 1,000
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	
Subtotal Legal & Financial	\$ 1,000
4) County Services:	
a Administration & General (ADM)	\$ 4,546
b Engineering (ENG)	\$ 9,092
c Right-Of-Way (ROW)	\$ 9,092
d Construction Inspection (INS)	
e GIS Mapping (ADM)	
f Operation Staff (STD) (Shutdowns, Training New Facilities, etc.)	
g Survey (SUR)	
Subtotal County Services	\$ 22,729
Project Subtotal	\$ 594,163
5) 10% Construction Contingency	\$ 59,416
6) Less Anticipated Grant Funds	\$ 394,165
7) Total Project Cost	\$ 259,415
Send completed estimate to Fiscal Services to be loaded in CIP People Soft Budget Report	

AUGUSTA DRAIN CWSRF REPAIRS
ESTIMATE OF PROJECT 17557 COSTS
REVISED: February 13, 2025

	Project Costs
1) Contracted Services: Construction Cost (as-bid) c Shoreline Restoration	\$ 92,430
Subtotal Construction Cost	\$ 92,430
2) Engineering Consultants a Design Phase b Construction Administration, Inspection, Surveying c Scheduling Consultant for Large Projects d Vibration Monitoring e f	\$ 7,791 \$ 18,397
Subtotal Engineering Consultants	\$ 26,188
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	\$ 1,000
Subtotal Legal & Financial	\$ 1,000
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)	\$ 924 \$ 1,849 \$ 1,849
Subtotal County Services	\$ 4,621
Project Subtotal	\$ 124,239
5) 10% Construction Contingency	\$ 12,424
6) Less Anticipated Grant Funds	\$ 100,000
7) Total Project Cost	\$ 36,663
Send completed estimate to Fiscal Services to be loaded in CIP People Soft Budget Report	




Jim Nash Oakland County Water Resources Commissioner
System Name or Drainage District Name
For the Augusta Drain Project
Norton Street, Pontiac
Oakland County, Michigan

Engineering Work Order No.**2****Date: March 3, 2025****To: Hubbell, Roth & Clark, Inc****For: Augusta Drain Project – Norton Street****DESCRIPTION**

This Engineering Work Order (EWO) is required to define specific additional tasks and compensation related to the Augusta Drain Project that falls under contract no. CON00009188. This EWO serves as your approval for compensation for the following additional services as delineated in your attached December 6, 2024 Financial Breakdown. The attached Financial Breakdown along with HRC comments (in red) to the scope of services established in the May 10, 2024 proposal, summarizes services that were or will be provided and were not included in the original proposal for the project. These additional services and associated fees are described herein:

\$30,606.61	HRC exceeded their original construction administration budget due to higher than anticipated construction services related to pay application review and packaging, extended construction schedule, and general project administrative needs.
\$43,115.31	HRC requests additional fee for design and construction administration efforts related to additions to the construction scope. Sidewalk replacement was added to the contractor's scope via Change Order No. 1 Additional site grading and stormwater detention infrastructure is planned to be added to the contractor's scope via Change Order No. 2.
\$73,721.92	Total additional fee request

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 Engineering Services Agreement is to be increased by a not to exceed amount of \$73,721.92. This increases the total allowed project amount under this contract to \$398,239.92. This amount is not to be exceeded without written authorization from this office.

RECOMMENDED		DATE: 3/7/2025		ACCEPTED		DATE: 3/6/2025	
By:				By:			
Jen Cook, P.E. Assistant Chief Engineer OCWRC				James Burton, P.E. Vice President Hubbell, Roth & Clark, Inc.			
APPROVED		DATE: 3/14/2025		APPROVED		DATE:	
By:				By:			
Joel Brown, P.E. Chief Engineer OCWRC				Steve Korth, P.E. Chief Manager OCWRC			
Approved by the Drainage District Board on:							

Department No.:	6010101	Account No.:	730373
Fund No:	82495	Program No.:	149015
Project No:	1-7215	Project Activity:	Standard
Contract No:	00009188	Contract Exp:	8-31-26

CHANGE ORDER

CHANGE ORDER NO. 1

Jim Nash, Oakland County Water Resources Commissioner

Augusta Drainage District

For Construction of the Augusta Drainage Improvements - Riparian & Vegetative Buffer Strip

City of Pontiac

Oakland County, Michigan

Authorization for Extras To & Changes In Contract

Department No. : CCN6010101

Account No. : SC730373

Fund No. : FND84495

Program No. : PRG149015

Project No. : PRJ-17557

Project Activity : FAC

Contractor :

Natural Community Services

Contract No. : CON00011280

(Name & Address)

6410 Upper Straits Blvd

Date of Contract: 12/20/24

West Bloomfield Township, MI 48324

Completion Date: 7/30/25

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
A	LOCATION: Osmun Lake Shoreline, west side of dock See plan sheet L-1 DESCRIPTION: Extra / Add					
	Additional CWD / Trash Removal	LS	1.0	\$1,880.00	\$1,880.00	---

JIM NASH

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

CHANGE ORDER

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	REASON: Additional trash removal was not on the original plans since trash and debris had accumulated over time within a heavily vegetated area and had been identified at the time of completing invasive species control. Contractor proposed and engineer/owner were agreeable to a lump sum amount to remove the additional trash found on site. Included in the item is the cost for all additional removals and hauling away of trash found on site. Price was determined based on the amount of additional debris removals needed in relation to the original lump sum amount. The parties are all in agreement on the price provided for the quantity of trash removals completed.					
B	LOCATION: Osmun Lake Shoreline, west side of dock See plan sheet L-1 DESCRIPTION: Extra / Add Additional NW Invasive Species	LS	1.0	\$3,000.00	\$3,000.00	---

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	REASON: Additional invasive species identified and removed that extended approximately 150 feet past the limits shown on the plans to a natural vegetative break along the buffer strip. Since the large tree removal was no longer needed as previously identified on the plans, the contractor, engineer/owner, and City of Pontiac agreed to complete the additional invasive species control to the natural vegetative break. Contractor proposed and engineer/owner agreed to a lump sum amount to remove the additional invasive species on site. Included in the item is the cost for all additional invasive species removals and hauling away of the spoils. Price was determined based on the amount of additional work found to be relative to the original lump sum amount. All parties are in agreement on the price provided for this work.					
C	LOCATION: Osmun Lake Shoreline See plan sheet L-1 DESCRIPTION: Change / Delete Large Tree Removal (No Stump Grinding) (Bid Item # 2)	Ea	-1.0	\$5,000.00	---	\$5,000.00

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

CHANGE ORDER

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	REASON: No large tree was found within the scheduled buffer strip area, therefore it was agreed between engineer/owner, contractor, and the City of Pontiac that the large tree removal would be eliminated from the contract to free up capital for the additional invasive species removal described in authorization B.					

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

CHANGE ORDER

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
				Totals	\$4,880.00	\$5,000.00
				Net Decrease	---	\$120.00

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

CHANGE ORDER NO. 1

Jim Nash, Oakland County Water Resources Commissioner

Augusta Drainage District

For Construction of the Augusta Drainage Improvements - Riparian & Vegetative Buffer Strip

City of Pontiac

Oakland County, Michigan

Prepared by: Geoff Wilson

Geoff Wilson, P.E. - Chief Engineer (WRC)

Date: 3/19/25Recommended by: Fatemeh Babakhani

Fatemeh Babakhani, P.E. - Consulting Engineer (HRC)

Date: 3/20/25Approved by: Gary Nigro

Gary Nigro, P.E. - Manager (WRC)

Date: 3/21/2025

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

Accepted by: John DeLisle

Name/Title: John DeLisle - Principal Ecologist

Company: Natural Community Services

Date: 3/20/25

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:

JIM NASH

OAKLAND COUNTY WATER RESOURCE COMMISSIONER

CHANGE ORDER

CHANGE ORDER NO. 1

**Jim Nash, Oakland County Water Resources Commissioner
Augusta Drainage District
For Construction of the Augusta Drainage Improvements - Riparian & Vegetative Buffer Strip
City of Pontiac
Oakland County, Michigan**

Notice to Proceed Date:	Friday, December 20, 2024
Contract Substantial Completion Date:	Monday, June 30, 2025
Contract Final Completion Date:	Wednesday, July 30, 2025
Original Contract Value:	\$ 92,429.50
Previous C.O. Values:	\$ -
Change Order No. 1 Value	\$ (120.00)
Adjusted Contract Value	\$ 92,309.50

**JIM NASH
OAKLAND COUNTY WATER RESOURCE COMMISSIONER**

CHANGE ORDER

CHANGE ORDER NO.2

Jim Nash, Oakland County Water Resources Commissioner
Augusta Drain Drainage District
For Construction of the Augusta Drain Norton Street Innovation Project
City of Pontiac
Oakland County, Michigan

Authorization for Extras To & Changes In Contract

Department No. :	6010101	Account No. :	730373
Fund No. :	FND82495	Program No. :	149015
Project No. :	PRJ-17215	Project Activity :	STD
		Vendor No.:	41244
		Purchase No.:	PO00065969

Contractor : T.R. Pieprzak Co., Inc.	Contract No. : CON00011041
6267 St. Clair Highway	Date of Contract : 7/1/2024
China Twp, MI 48504	Completion Date : 6/30/2025

Auth No.	Description-Location-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	DESCRIPTION (Quantity Increase):					
A-1	6. Curb and Gutter, Rem	Ft	10	\$ 35.00	\$ 350.00	---
A-2	7. Spillway, Rem	Ea	1	\$ 840.00	\$ 840.00	
A-3	10. Site Grading	Ac	0.33	\$ 102,436.00	\$ 33,803.88	
A-4	11. Excavation, Earth	Cyd	550	\$ 37.50	\$ 20,625.00	
A-5	12. Erosion Control, Silt Fence	Ft	650	\$ 2.30	\$ 1,495.00	
A-6	13. Erosion Control, Inlet Protection, Fabric Drop	Ea	2	\$ 143.00	\$ 286.00	
A-7	26. Respreading of Existing Soils, 4 inch	Cyd	190	\$ 23.00	\$ 4,370.00	
A-8	27. Compost for Amended In-Place Soils	Cyd	40	\$ 48.00	\$ 1,920.00	
A-9	33. Cobbles, 12 inch to 18 inch (Gravel Bands)	Ton	11	\$ 400.00	\$ 4,400.00	
A-10	34. Washed Stone, 5 inch (Gravel Bands)	Ton	9	\$ 350.00	\$ 3,150.00	
A-11	36. Weed Barrier Control	Syd	43	\$ 1.50	\$ 64.50	

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

CHANGE ORDER

Auth No.	Description-Location-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	LOCATION: Northeast corner of Norton St. and Sanderson Ave - "Area C" portion of the originally bid project. REASON: Extending the scope and limits of the innovation project to the east side of Sanderson Ave due to the availability of additional grant funds.					
B	DESCRIPTION (Remove Item): 55. Drain Cleaning LOCATION: Northeast corner of Norton St. and Sanderson Ave., where Augusta drain transitions from open to enclosed. REASON: Owner had initially intended for the Contractor for this contract to perform the work (added to the Contract via Change Order No.1). The Owner has since completed the work in-house. As such, this work can be removed from the contract.	Lsum	1	\$ 18,836.00		\$ 18,836.00


CHANGE ORDER

Auth No.	Description-Location-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
	DESCRIPTION (Add Items):					
C-1	56. Mobilization (Max 5%) (Area C)	Lsum	1	\$ 8,500.00	\$ 8,500.00	---
C-2	57. Curb Cut Inlet (Area C)	Ea	1	\$ 4,500.00	\$ 4,500.00	
C-3	58. Minor Traffic Devices and Traf Regulator Control (Area C)	Lsum	1	\$ 5,000.00	\$ 5,000.00	
C-4	59. One-Year Vegetation Maintenance and Guarantee (Area C)	Lsum	1	\$ 9,438.00	\$ 9,438.00	
C-5	60. Shrubs, Deciduous (Area C)	Ea	58	\$ 114.00	\$ 6,612.00	
C-6	61. Perennial Mix (Quart), 18 inches O.C. (Area C)	Ea	760	\$ 15.65	\$ 11,894.00	
C-7	62. Seeded Turf Lawn (Area C)	Syd	50	\$ 2.48	\$ 124.00	
C-8	63. Sedge and Rush Seed Mix (Area C)	Syd	410	\$ 13.23	\$ 5,424.30	
C-9	64. Stormwater Native Seed Mix (Area C)	Syd	1,100	\$ 11.35	\$ 12,485.00	
C-10	65. Prairie Native Seed Mix (Area C)	Syd	560	\$ 6.85	\$ 3,836.00	
	LOCATION: Northeast corner of Norton St. and Sanderson Ave - "Area C" portion of the originally bid project.					
	REASON: Extending the scope and limits of the innovation project to the east side of Sanderson Ave due to the availability of additional grant funds.					
				Totals	\$ 139,117.68	\$ 18,836.00
				Net Increase	\$ 120,281.68	---

CHANGE ORDER

CHANGE ORDER NO.2

Jim Nash, Oakland County Water Resources Commissioner
Augusta Drain Drainage District
For Construction of the Augusta Drain Norton Street Innovation Project
City of Pontiac
Oakland County, Michigan

Prepared by:  _____ Date: 3/14/2025
Jen Cook, P.E. (WRC)

Recommended by: _____ Date: _____
John Balint, P.E., Consulting Engineer (HRC)

Approved by: _____ Date: _____
Joel Brown, P.E., Chief Engineer (WRC)

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

Accepted by: _____ Date: _____
Greg Pieprzak, Vice President/Secretary
T.R. Pieprzak Co., Inc.

Approved by: _____ Date: _____
Steven Korth, P.E., Chief Manager (WRC)

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: _____ Date: _____

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

Jim Nash, Oakland County Water Resources Commissioner
Augusta Drainage District
For Construction of the Augusta Drainage District Improvements - Drop Fall Structure Reconstruction
City of Pontiac
Oakland County, Michigan

Construction Estimate No. 1

December 20, 2024 to March 12, 2025

Department No. : CCN6010101

Fund No. : FND84495

Project No. : PRJ-17557

Account No. : SC730373

Program No. : PRG149015

Activity : FAC

Vendor No. : 5297

Contract No. : CON00011279

Date of Contract : 12/20/2024

Completion Date : 7/31/2025

PO Number: PO00076762

Contractor : Trojan Development Company, Inc.
(Name & Address) 2260 Metamora Road
Oxford, MI 48371

Original Contract Amount: \$491,112.50

Previous Change Order Numbers (none): \$0.00

Change Orders This Estimate Numbers (none): \$0.00

Total Net Change Orders: \$0.00

Adjusted Contract Amount: \$491,112.50

Subtotal To Date: (Sheet 2 of 2 Column 7) \$164,728.77 ✓

Less Deductions to Date: (Sheet 2 of 2 Column 7) \$0.00

Gross Estimate: (Work in Place) 33.54% \$164,728.77

Less Amount Reserved: (10% of Gross Estimate) \$16,472.88

Total Amount Allowed To Date: \$148,255.89

Less Previous Estimates: \$0.00

Net Payment Request To Be Paid To Contractor: \$148,255.89 ✓

Reserve Payment to Contractor \$0.00

Balance of Contract To Date \$326,383.73 ✓ Accounting Auditor: KS 03/17/25

Less Previous Transfers To Reserve: \$0.00

Amount of Current Transfer: \$16,472.88 ✓

Prepared by: Geoff Wilson
Geoff Wilson, P.E. - Chief Engineer (WRC)

Date: 3/12/2025

Recommended by: Fatemeh Babakhani
Fatemeh Babakhani, P.E. - Consulting Engineer (HRC)

Date: 03/14/2025

Approved by: _____
Gary Nigro, P.E. - Manager (WRC)

Date: _____

Approved by Board on: _____

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

Jim Nash, Oakland County Water Resources Commissioner
Augusta Drainage District
For Construction of the Augusta Drainage Improvements - Riparian & Vegetative Buffer Strip
City of Pontiac
Oakland County, Michigan

Construction Estimate No. 1

December 20, 2024 - March 10, 2025

Department No. : CCN6010101

Fund No. : FND84495

Project No. : PRJ-17557

Account No. : SC730373

Program No. : PRG149015

Activity : FAC

Vendor No. : 40621

Contract No. : CON00011280

Date of Contract : 12/20/2024

Completion Date : 7/30/2025

PO Number : PO00077681

Contractor : Natural Community Services
6410 Upper Straits Blvd
West Bloomfield Township, MI 48324

Original Contract Amount: \$92,429.50

Previous Change Order Numbers (none): \$0.00

Change Orders This Estimate Numbers (none): \$0.00

Total Net Change Orders: \$0.00

Adjusted Contract Amount: \$92,429.50

Subtotal To Date: (Sheet 2 of 2 Column 7) \$49,287.50

Less Deductions to Date: (Sheet 2 of 2 Column 7) \$0.00

Gross Estimate: (Work in Place) 53.32% \$49,287.50

Less Amount Reserved: (5% of Adjusted Contract Amount) \$4,621.48

Total Amount Allowed To Date: \$44,666.02

Less Previous Estimates: \$0.00

Net Payment Request To Be Paid To Contractor: \$44,666.02

Reserve Payment to Contractor \$0.00

Balance of Contract To Date \$43,142.00 Accounting Auditor: KS 03/18/25

Less Previous Transfers To Reserve: \$0.00

Amount of Current Transfer: \$4,621.48

Prepared by: _____
Geoff Wilson, P.E. - Chief Engineer (WRC)

Date: _____

Recommended by: _____
Fatemeh Babakhani, P.E. - Consulting Engineer (HRC)

Date: _____

Approved by: _____
Gary Nigro, P.E. - Manager (WRC)

Date: _____

Approved by Board on: _____

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

Jim Nash, Oakland County Water Resources Commissioner
Augusta Drain Drainage District
For Construction of the Augusta Drain Drainage District Improvements- Stormsystem Rehabilitation
Pontiac, MI
Oakland County, Michigan

Construction Estimate No. 2

February 1, 2025 to February 28, 2025

Department No.: CCN6010101

Fund No.: FND84495

Project No.: PRJ-17557

Account No.: SC730373

Program No.: PRG149015

Activity: FAC

Vendor No. : 4186

Contract No. : CON00011281

Date of Contract: 12/18/2024

Completion Date: 7/31/2025

PO Number: PO00076760

Contractor: Pamar Enterprises, Inc.
 58021 Gratiot Avenue
 New Haven, MI 48048

Original Contract Amount: \$454,587.94

Previous Change Order Numbers (none): \$0.00

Change Orders This Estimate Numbers (none): \$0.00

Total Net Change Orders: \$0.00

Adjusted Contract Amount: \$454,587.94

Subtotal To Date: (Sheet 2 of 2 Column 7) \$174,864.90 ✓

Less Deductions to Date: (Sheet 2 of 2 Column 7) \$0.00

Gross Estimate: (Work in Place) 38.47% \$174,864.90

Less Amount Reserved: (10% of Gross Estimate) \$17,486.49

Total Amount Allowed To Date: \$157,378.41

Less Previous Estimates: \$38,476.80

Net Payment Request To Be Paid To Contractor: \$118,901.61 ✓

Reserve Payment to Contractor \$0.00

Balance of Contract To Date \$279,723.04 ✓ Accounting Auditor: *KS* 3/17/25

Less Previous Transfers To Reserve: \$4,275.20

Amount of Current Transfer: \$13,211.29 ✓

Prepared by: *Geoff Wilson*
 Geoff Wilson, P.E. - Chief Engineer (WRC)

Date: 3/12/2025

Recommended by: *Fatemeh Babakhani*
 Fatemeh Babakhani, P.E. - Consulting Engineer (HRC)

Date: 3/11/2025

Approved by: _____
 Gary Nigro, P.E. - Manager (WRC)

Date: _____

Approved by Board on: _____

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

9. Pontiac Clinton River #1 Drain

AGENDA

DRAINAGE BOARD FOR THE PONTIAC CLINTON RIVER NO. 1 DRAIN

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2025
3. Public Comments
4. Present Construction Estimate No. 2 for Pamar Enterprises for Construction of the PCR No. 1 Drain Drainage District Improvements in the amount of \$10,689.75 with a transfer to the Oakland County Treasurer in the amount of \$1,187.75
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE PONTIAC CLINTON RIVER NO. 1 DRAIN**

February 25, 2025

A meeting of the Drainage Board for the Pontiac Clinton River No. 1 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 25th day of February 2025.

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

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

ABSENT: None.

Minutes of the meeting held January 28, 2025, were presented for consideration. It was moved by Taylor, 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.

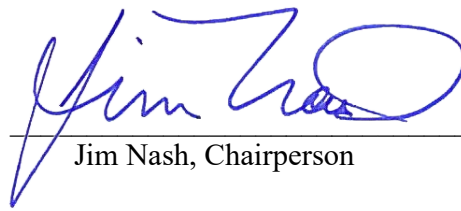
Construction Estimate No. 1 for Pamar Enterprises for Construction of the PCR No. 1 Drain Drainage District Improvements in the amount of \$59,685.66 with a transfer to the Oakland County Treasurer in the amount of \$6,631.74 was presented. It was moved by Taylor, supported by Woodward, to approve Construction Estimate No. 1 for Pamar Enterprises for Construction of the PCR No. 1 Drain Drainage District Improvements in the amount of \$59,685.66 with a transfer to the Oakland County Treasurer in the amount of \$6,631.74 as presented.

ADOPTED: Yeas - 3
Nays - 0

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

ADOPTED: Yeas - 3
Nays - 0

There being no further business, the meeting was adjourned.

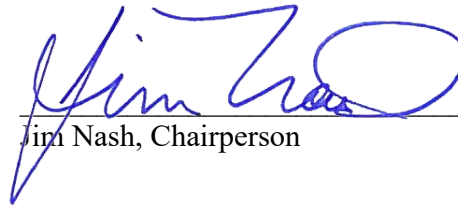
A handwritten signature in blue ink, appearing to read "Jim Nash", is positioned above a horizontal line. The signature is stylized with a large, circular flourish at the end.

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 Pontiac Clinton River No. 1 Drain, Oakland County, Michigan, held on the 25th day of February 2025, 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 Pontiac Clinton River No. 1 Drain Drainage District.



Jim Nash, Chairperson

Dated: February 25, 2025

Jim Nash, Oakland County Water Resources Commissioner
Pontiac-Clinton River No. 1 Drain Drainage District
For Construction of the Pontiac-Clinton River (PCR) No. 1 Drain Drainage District Improvements
Pontiac, MI
Oakland County, Michigan

Construction Estimate No. 2

February 1, 2025 to February 28, 2025

Department No.: CCN6010101

Fund No.: FND84447

Project No.: PRJ-17559

Account No.: SC730373

Program No.: PRG149015

Activity: FAC

Vendor No.: 4186

Contract No.: CON00011347

Date of Contract: 11/27/2024

Completion Date: 3/10/2025

PO Number: PO00077682

Contractor: Pamar Enterprises, Inc.
 58021 Gratiot Avenue
 New Haven, MI 48048

Original Contract Amount: \$611,258.52

Previous Change Order Numbers (none): \$0.00

Change Orders This Estimate Numbers (none): \$0.00

Total Net Change Orders: \$0.00

Adjusted Contract Amount: \$611,258.52

Subtotal To Date: (Sheet 2 of 2 Column 7) \$78,194.90 ✓

Less Deductions to Date: (Sheet 2 of 2 Column 7) \$0.00

Gross Estimate: (Work in Place) 12.79% \$78,194.90

Less Amount Reserved: (10% of Gross Estimate) \$7,819.49

Total Amount Allowed To Date: \$70,375.41

Less Previous Estimates: \$59,685.66

Net Payment Request To Be Paid To Contractor: \$10,689.75 ✓

Reserve Payment to Contractor \$0.00

Balance of Contract To Date \$533,063.62 ✓ Accounting Auditor: KS 3/17/25

Less Previous Transfers To Reserve: \$6,631.74

Amount of Current Transfer: \$1,187.75 ✓

Prepared by: Geoff Wilson
 Geoff Wilson, P.E. - Chief Engineer (WRC)

Date: 3/12/2025

Recommended by: Fatemeh Babakhani
 Fatemeh Babakhani, P.E. - Consulting Engineer (HRC)

Date: 3/11/2025

Approved by: _____
 Gary Nigro, P.E. - Manager (WRC)

Date: _____

Approved by Board on: _____

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

10. Joachim Relief Drain

AGENDA

DRAINAGE BOARD FOR THE JOACHIM RELIEF DRAIN

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of January 28, 2025
3. Public Comments
4. Present Construction Estimate No. 1 for Pipeline Management Company, LLC for Construction of the Joachim Drain Drainage District Improvements in the amount of \$127,800.00 with a transfer to the Oakland County Treasurer in the amount of \$14,200
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE JOACHIM RELIEF DRAIN**

January 28, 2025

A meeting of the Drainage Board for the Joachim 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 28th day of January 2025.

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 October 22, 2024, 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.

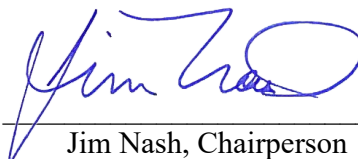
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$2,853.52 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$2,853.52.

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 Mr. Woodward and Ms. Markham.

ADOPTED: Yeas - 3
Nays - 0

There being no further business, the meeting was adjourned.

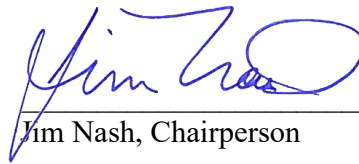


Jim Nash, Chairperson

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 Joachim Relief Drain, Oakland County, Michigan, held on the 28th day of January 2025, 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 Joachim Relief Drain Drainage District.



Jim Nash, Chairperson

Dated: January 28, 2025

Jim Nash, Oakland County Water Resources Commissioner
Joachim Drain Drainage District
For Construction of the Joachim Drain Drainage District Improvements
City of Pontiac
Oakland County, Michigan

Construction Estimate No. 1

December 20, 2024 - February 28, 2025

Department No. : CCN6010101

Fund No. : FND84526

Project No. : PRJ-17558

Account No. : SC730373

Program No. : PRG149015

Activity : FAC

Vendor No. : 15328

Contract No. : CON00011278

Date of Contract : 12/20/2024

Completion Date : 3/10/2025

PO Number :

Contractor : Pipeline Management Company, LLC
 (Name & Address) 2673 E Maple Road
 Milford Charter Township, MI 48381

Original Contract Amount: \$519,590.00

Previous Change Order Numbers (none): \$0.00

Change Orders This Estimate Numbers (none): \$0.00

Total Net Change Orders: \$0.00

Adjusted Contract Amount: \$519,590.00

Subtotal To Date: (Sheet 2 of 2 Column 7) \$142,000.00

Less Deductions to Date: (Sheet 2 of 2 Column 7) \$0.00

Gross Estimate: (Work in Place) 27.33% \$142,000.00

Less Amount Reserved: (10% of Gross Estimate) \$14,200.00

Total Amount Allowed To Date: \$127,800.00

Less Previous Estimates: \$0.00

Net Payment Request To Be Paid To Contractor: \$127,800.00

Reserve Payment to Contractor \$0.00

Balance of Contract To Date \$377,590.00 Accounting Auditor: *KS* 3/17/25

Less Previous Transfers To Reserve: \$0.00

Amount of Current Transfer: \$14,200.00

Prepared by: *Geoff Wilson*
 Geoff Wilson, P.E. - Chief Engineer (WRC)

Date: 3/12/2025

Recommended by: *Fatemeh Babakhani*
 Fatemeh Babakhani, P.E. - Consulting Engineer (HRC)

Date: 3/12/2025

Approved by: _____
 Gary Nigro, P.E. - Manager (WRC)

Date: _____

Approved by Board on: _____

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

11. Jamian Drain

AGENDA

DRAINAGE BOARD FOR THE JAMIAN DRAIN

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of January 28, 2025
3. Public Comments
4. Present Project Assessment Recommendation in the amount of \$67,772.00
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE JAMIAN DRAIN**

January 28, 2025

A meeting of the Drainage Board for the Jamian 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 28th day of January 2025.

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 May 21, 2024, 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 from Garrett Shafer, E.I.T., Civil Engineer II, Drain Maintenance, dated January 28, 2025, requesting the Board amend the Sediment Basin Cleanout budget to \$77,572 based on the updated construction and WRC costs was presented. It was moved by Markham, supported by Woodward, to amend the Sediment Basin Cleanout budget to \$77,572 based on the updated construction and WRC costs as presented.

ADOPTED: Yeas - 3
Nays - 0

A request for approval of payment of invoices and/or reimbursement of the Evergreen Farmington Fund in the amount of \$56,565.90 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Evergreen Farmington Fund in the amount of \$56,565.90.

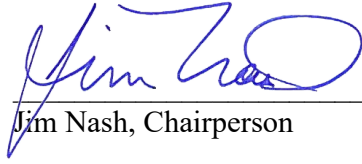
ADOPTED: Yeas - 3
Nays - 0

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

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 Jamian Drain, Oakland County, Michigan, held on the 28th day of January 2025, 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 Jamian Drain Drainage District.



Jim Nash, Chairperson

Dated: January 28, 2025

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER
PROJECT ASSESSMENT RECOMMENDATION FOR THE
JAMIAN DRAIN**

PROJECT: Jamian Drain Sediment Basin Cleanout Project (PRJ-17659)

CURRENT FUND BALANCE: (\$57,838.90)
Maintenance fund FND82862

TOTAL PROJECT AMOUNT: \$77,572.00
LESS FUNDS PREVIOUSLY COLLECTED: (\$9,800.00)
AMOUNT TO BE ASSESSED: \$67,772.00

Public Corporation	*Percentage of Apportionment	Total Amount of Assessment
Charter Township of West Bloomfield	83.360%	\$ 56,494.74
Road Commission for County of Oakland on account of drainage to county highways	16.640%	\$ 11,277.26
Total	100.000%	\$ 67,772.00

*Apportionment based on Final Order of Apportionment dated 04/19/2005.

Assessment Payment Due Date: 04/30/2025

I hereby certify that the forgoing Special Assessment Roll was prepared in accordance with the directions of the Drainage Board for the Jamian Drain and the statutory provisions applicable thereto.

Jim Nash
Chairman of the Drainage Board for the Jamian Drain

The foregoing Special Assessment Roll was approved for the Jamian Drain on _____

Jim Nash
Chairman of the Drainage Board for the Jamian Drain

JAMIAN DRAIN SEDIMENT BASIN CLEANOUT
ESTIMATE OF PROJECT COSTS
REVISED: JANUARY 21, 2024

	Project Costs
1) Contracted Services: Construction Cost	
a Contractor Invoices	\$ 56,566
Subtotal Construction Cost	\$ 56,566
2) Engineering Consultants	
a Design Phase	
b Construction Administration	
c Scheduling Consultant for Large Projects	
d Sediment Sampling (Completed)	\$ 3,130
e	
f	
Subtotal Engineering Consultants	\$ 3,130
3) Legal & Financial	
a Easements	
b Legal Costs	
c Financial Consultant	
d Bond Counsel	
e OCIP Insurance	
f Official Statement	
g Wetland Mitigation	
Subtotal Legal & Financial	\$ -
4) County Services:	
a Administration & General (ADM)	\$ 1,200
b Engineering (ENG)	\$ 12,824
c Right-Of-Way (ROW)	
d Construction Inspection (INS)	
e GIS Mapping (ADM)	\$ 1,000
f Operation Staff (STD)	
g Survey (SUR)	\$ 2,852
Subtotal County Services	\$ 17,876
Project Subtotal	\$ 77,572
5) 10% Project Contingency	
6) Less Anticipated Grant Funds	
7) Total Project Cost	\$ 77,572

12. Johnson Drain

AGENDA

DRAINAGE BOARD FOR THE JOHNSON DRAIN

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of January 25, 2022
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$20,400
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE JOHNSON DRAIN**

January 25, 2022

A meeting of the Drainage Board for the Johnson 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 25th day of January 2022.

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 August 27, 2019 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 Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$19,500 for the Johnson Drain (as attached) were presented. It was moved by Markham, supported by Woodward, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$19,500 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.

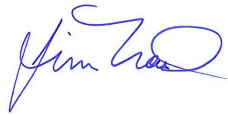


Jim Nash, Chairperson

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 Johnson Drain, Oakland County, Michigan, held on the 25th day of January 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 Johnson Drain Drainage District.



Jim Nash, Chairperson

Dated: January 25, 2022

OAKLAND COUNTY WATER RESOURCES COMMISSIONER
MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE
Johnson Drain

Assessment for estimated maintenance expenses for fiscal years: 2025 through 2027

Date last assessment approved:	01/25/22	
Last Assessment:		\$19,500
Current Available Cash:		\$1,783

Expenditure History:	Fiscal Year	Amount
	2018	\$6,937
	2019	\$6,913
	2020	\$5,715
	2021	\$7,031
	2022	\$9,146
	2023	\$6,599
	2024	\$5,217

Estimated Expenditures:	Year	Amount
	2025	\$6,800
	2026	\$6,800
	2027	\$6,800
	Total	\$20,400

Recommended Assessment:

Total Anticipated Expenses 2025 - 2027	\$20,400
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TOTAL RECOMMENDED ASSESSMENT	\$20,400
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Prepared by: Andrea Craft Date: 3/12/2025
Andrea Craft - Supervisor WRC Financial Services

Approved by: _____ Date: _____
Geoff Wilson, P.E. - Chief Engineer

Approved by: _____ Date: _____
Gary Nigro, P.E. - Manager

Note: Current Available Cash as of January 31, 2025, Fiscal Services Division Report.

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE JOHNSON DRAIN

Public Corporation	*Percentage of Apportionment	Total Amount of Assessment	Payment #1	Payment #2	Payment #3
City of Auburn Hills	86.790%	\$ 17,705.16	\$ 17,705.16	-	-
Road Commission for County of Oakland on account of drainage to county highways	4.850%	\$ 989.40	\$ 989.40	-	-
State of Michigan	8.360%	\$ 1,705.44	\$ 1,705.44	-	-
<hr/>					
Total	100.000%	\$ 20,400.00	\$ 20,400.00	\$ -	\$ -

*Apportionment based on Final Order of Apportionment dated 10/10/1989.

Assessment Payment Due Date(s): Payment #1 04/30/2025

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Johnson Drain for the fiscal years 2025- 2027 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

Jim Nash
Chairman of the Drainage Board for the Johnson Drain

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

Jim Nash
Chairman of the Drainage Board for the Johnson Drain

13. Wilmont Relief Drain

AGENDA

DRAINAGE BOARD FOR THE WILMONT RELIEF DRAIN

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of November 28, 2023
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$48,510
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE WILMONT RELIEF DRAIN**

November 28, 2023

A meeting of the Drainage Board for the Wilmont 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 28th day of November 2023.

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 September 26, 2023, 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.

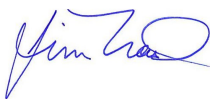
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$12,877.50 (as attached) was presented. It was moved by Markham, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$12,877.50.

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.

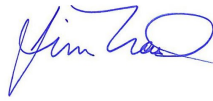


Jim Nash, Chairperson

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 Wilmont Relief Drain, Oakland County, Michigan, held on the 28th day of November 2023, 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 Wilmont Relief Drain Drainage District.



Jim Nash, Chairperson

Dated: November 28, 2023

OAKLAND COUNTY WATER RESOURCES COMMISSIONER
MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE
Wilmont Relief Drain

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2025 through 2027

Date last assessment approved:	12/13/22	
Last Assessment:		\$357,930
Current Available Cash:		(\$11,610)

Expenditure History:	Fiscal Year	Amount
	2018	\$12,868
	2019	\$11,781
	2020	\$5,677
	2021	\$15,241
	2022	\$17,791
	2023	\$19,709
	2024	\$10,255

Estimated Expenditures:	Year	Amount
	2025	\$12,300
	2026	\$12,300
	2027	\$12,300
	Total	\$36,900

Recommended Assessment:

Current Cash Deficit	\$11,610
Total Anticipated Expenses 2025 - 2027	\$36,900

TOTAL RECOMMENDED ASSESSMENT	\$48,510
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Prepared by: Andrea Craft Date: 3/12/2025
Andrea Craft - Supervisor WRC Financial Services

Approved by: _____ Date: _____
Geoff Wilson, P.E. - Chief Engineer

Approved by: _____ Date: _____
Gary Nigro, P.E. - Manager

Note: Current Available Cash as of January 31, 2025, Fiscal Services Division Report.

SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE WILMONT RELIEF DRAIN

Public Corporation	*Percentage of Apportionment	Total Amount of Assessment	Payment #1	Payment #2	Payment #3
Charter Township of Waterford	27.5020%	\$ 13,341.22	\$ 13,341.22	-	-
County of Oakland (County Owned Land)	63.7477%	\$ 30,924.01	\$ 30,924.01	-	-
Road Commission for County of Oakland on account of drainage to county highways	4.4025%	\$ 2,135.65	\$ 2,135.65	-	-
State of Michigan	4.3478%	\$ 2,109.12	\$ 2,109.12	-	-
<hr/>					
Total	100.0000%	\$ 48,510.00	\$ 48,510.00	\$ -	\$ -

*Apportionment based on Final Order of Apportionment dated 4/24/1970.

Assessment Payment Due Date(s): Payment #1 04/30/2025

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Wilmont Relief Drain for the fiscal years 2025- 2027 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

Jim Nash
Chairman of the Drainage Board for the Wilmont Relief Drain

The foregoing Special Assessment Roll for the maintenance of the Wilmont Relief Drain was approved by the Drainage Board on _____.

Jim Nash
Chairman of the Drainage Board for the Wilmont Relief Drain

14. Northwest Oakland Sanitary Sewer Drain

AGENDA

DRAINAGE BOARD FOR THE NORTHWEST OAKLAND SANITARY SEWER DRAIN

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2025
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$324,929.78
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE NORTHWEST OAKLAND SANITARY SEWER DRAIN**

January 28, 2025

A meeting of the Drainage Board for the Northwest Oakland Sanitary Sewer 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 28th day of January 2025.

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 December 17, 2024, 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.

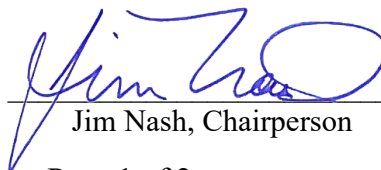
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund from the Construction Fund in the amount of \$147,748.54 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund from the Construction Fund in the amount of \$147,748.54.

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 Mr. Woodward and Ms. Markham.

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 Northwest Oakland Sanitary Sewer Drain, Oakland County, Michigan, held on the 28th day of January 2025, 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 Northwest Oakland Sanitary Sewer Drain Drainage District.



Jim Nash, Chairperson

Dated: January 28, 2025

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the NORTHWEST OAKLAND SANITARY DRAIN (Construction)

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting

HP for Shawn Phelps

DATE: March 25, 2025

SUBJECT: Request for Board approval of payment of the following invoice(s):

Ref No.	Paid To	For	Amount
SINV00318571	ROWE Professional Services Company	Invoice # 0116644 - 11/1 /24-11/30/24 - Prj # 1-7469	\$ 57,617.05
SINV00318569	ROWE Professional Services Company	Invoice # 0116860 - 12/1/24 -12/31/24 -Prj# 1-7469	177,244.19
SINV00324550	ROWE Professional Services Company	Invoice # 0117322 - 1/1/25-1/31/25 -Prj# 1-7469	89,936.54
SINV00327488	Dickinson Wright PLLC	Invoice # 2015020 - Legal Services - 2/28/25 - Proj #1-7469	132.00
Total Project 1-7469			\$ 324,929.78
Grand Total			\$ 324,929.78

15. Rufe Collier Drain

AGENDA

DRAINAGE BOARD FOR THE RUFÉ COLLIER DRAIN

March 25, 2025

1. Call meeting to order
2. Approve minutes of meeting of December 17, 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 \$7,005.20
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 \$52,393.84
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE RUFÉ COLLIER DRAIN**

December 17, 2024

A meeting of the Drainage Board for the Rufe Collier 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 17th day of December 2024.

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 August 27, 2024, 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.

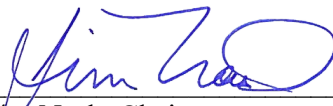
A memorandum from Taylor Warstler, Civil Engineer II, dated December 17, 2024, requesting the Board accept the Ducks Unlimited grant funding in the amount of \$929,849 by executing the attached agreement and approve Drummond Carpenter, PLLC as the design engineer for the project was presented. It was moved by Markham, supported by Woodward, to accept the Ducks Unlimited grant funding in the amount of \$929,849 by executing the attached agreement and approve Drummond Carpenter, PLLC as the design engineer for the project 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 Mr. Woodward and Ms. Markham.

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 Rufe Collier Drain, Oakland County, Michigan, held on 17th day of December 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 Rufe Collier Drain Drainage District.



Jim Nash, Chairperson

Dated: December 17, 2024

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the RUFÉ COLLIER DRAIN (MAINTENANCE FUND)

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Drain Accounting

HP for Shawn Phelps

DATE: March 25, 2025

SUBJECT: Request for Reimbursement of Drain Revolving Fund

The following is a detail of Maintenance charges paid from the Drain Revolving Fund for the period ending March 18, 2025.

<u>Date</u>	<u>Ref No.</u>	<u>Paid To</u>	<u>For</u>	<u>Amount</u>
3/18/2025	SIV00327484	Dickinson Wright PLLC	Invoice # 2015019 - Legal Services	\$2,772.00
3/10/2025	SIV00325634	Dickinson Wright PLLC	Invoice # 2007188 - Legal Services	\$4,233.20
			TOTAL	<u>\$7,005.20</u>

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the RUFÉ COLLIER DRAIN (CONSTRUCTION FUND)

FROM: Shawn Phelps, Chief of Fiscal Services *HP for Shawn Phelps*
OCWRC Drain Accounting

DATE: March 25, 2025

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

Ref No.	Paid To	For	Amount
SINV00320237	Drummond Carpenter	Invoice # 5243 - Professional Services - 11/30/24 - Proj #1-7469	\$42,965.98
SINV00320169	Drummond Carpenter	Invoice # 5204 - Professional Services - 12/31/24 - Proj#1-7469	\$9,427.86
		TOTAL Project 1-7469	<u>\$52,393.84</u>