

NOTICE OF MEETINGS
DRAINAGE BOARD FOR THE FOLLOWING DRAINS:

1. Drainage District Policy
2. Acacia Park CSO Drain
3. Birmingham CSO Drain
4. Bloomfield Village CSO Drain
5. George W. Kuhn Drain
6. Evergreen-Farmington Sanitary Sewer Drain
7. Clinton River Water Resource Recovery Facility
8. Augusta Drain
9. Rufe Collier Drain
10. Jacobs Drain
11. Joseph Jones Drain
12. Minnow Pond Drain
13. Northwest Oakland Sanitary Sewer 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, DECEMBER 17, 2024**, TO CONDUCT NECESSARY AND APPROPRIATE BUSINESS OF THE DRAINAGE BOARDS. THOSE WHO WISH TO PARTICIPATE REMOTELY MAY FOLLOW THE INSTRUCTIONS ATTACHED TO THIS NOTICE. ALL BOARD MEMBERS WILL BE PARTICIPATING IN-PERSON.

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

JIM NASH
Oakland County Water Resources Commissioner
Telephone: 248-858-0958

Posted by: December 12, 2024

Microsoft Teams meeting

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1. Drainage District Policy

AGENDA

DRAINAGE BOARD FOR POLICY MATTERS

December 17, 2024

1. Call meeting to order
2. Approve minutes of meeting of November 26, 2024
3. Public Comments
4. Gallagher Property Insurance Renewal Proposal
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR POLICY MATTERS**

November 26, 2024

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

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

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

David Woodward, Chairperson of the Oakland County Board of Commissioners

ABSENT: None.

Minutes of the meeting held September 24, 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.

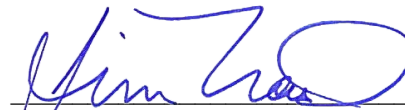
The proposed Chapter 20 meeting dates for 2025 (as attached) were presented. It was moved by Markham, supported by Woodward, to approve the proposed 2025 Chapter 20 meeting dates as presented.

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.

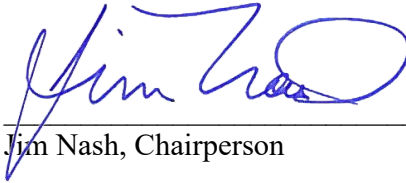


Jim Nash, Chairperson

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 Policy Matters, Oakland County, Michigan, held on the 26th day of November 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 Policy Matters.



Jim Nash, Chairperson

Dated: November 26, 2024



Proposal of Insurance

The Water Resources Commissioner for Oakland County

One Public Works Drive, Bldg. 95 West
Waterford, MI, 48328

Presentation Date: December 17, 2024

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



Gallagher

Insurance | Risk Management | Consulting

The Water Resources Commissioner for Oakland County

Premium Summary

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

Line of Coverage		Expiring	Renewal Option
		Federal Insurance Company	Federal Insurance Company
Property	Premium	\$480,822.00	\$505,346.00
	Estimated Cost*	\$480,822.00	\$505,346.00
	Change (\$)		\$24,524.00
	Change (%)		5.1%
Total Cost		\$480,822.00	\$505,346.00

*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.

Gallagher is responsible for the placement of the following lines of coverage: Property.

It is understood that any other type of exposure/coverage is either self-insured or placed by another brokerage firm other than Gallagher. If you need help in placing other lines of coverage or covering other types of exposures, please contact your Gallagher representative.

Named Insured

Named Insured	Property
The Water Resources Commissioner for Oakland County	X
George W. Kuhn Drain Drainage District	X
Clinton River Water Resource Recovery Facility Drain Drainage District	X

Note: Any entity not named in this proposal may not be an insured entity. This may include affiliates, subsidiaries, LLCs, partnerships, and joint ventures.



The Water Resources Commissioner for Oakland County

Coverage Highlights

Property

	Recommended Quote
Policy Term	01/25/2025 - 01/25/2026
Carrier Name	Federal Insurance Company
Payment Plan	Annual
Payment Method	Agency Bill
Premium & Exposures	
Property Premium	\$505,346.00
Terrorism – TRIA (Included)	\$15,196.00
Total Estimated Premium:	\$505,346.00
Exposure / Total Insurable Value	\$296,110,435
Valuation	Replacement Cost
Coinsurance (Coinsurance/Agreed Amount)	N/A – Agreed Value
Perils Covered (Special)	Special
Core Property Coverage	
Blanket Building, Personal Property	\$176,671,753
Blanket Business Income without Extra Expense	\$1,000,000
Blanket Extra Expense	\$5,000,000
Blanket Business Income - Loss of Utilities	\$1,000,000
Blanket Debris Removal Expense	\$1,000,000
Specific Building Limit for GWK Retention & Treatment Basin	\$100,000,000
Other Property Coverages	
Machinery Breakdown	Included - Except at GWK Retention & Treatment Basin
Errors & Omissions	\$1,000,000
Ocean Cargo – Goods In-Transit	\$50,000
Personal Property – Any Other Location	\$500,000
Personal Property In-Transit	\$500,000
Prohibition of Access – Per Occurrence	\$50,000
Prohibition of Access – Aggregate Limit	\$100,000
Scheduled Mobile Equipment	Included
Earthquake	
o Premises Annual Aggregate Limit	\$25,000,000
o Per Occurrence Limit	\$25,000,000
Flood Policy Annual Aggregate Limit	\$5,000,000
Flood Sub-Limit at following Premises: 1200 S CRANBROOK RD, BIRMINGHAM, MI 48009 29601 JOHN R RD, MADISON HEIGHTS, MI 48071 1210 SOUTH BLVD W, ROCHESTER HILLS, MI 48309 8771 COOLEY LAKE RD, & WISE RD, HIGHLAND, MI 48357 4633 TAMWORTH ST, COMMERCE TOWNSHIP, MI 48382 24404 W FOURTEEN MILE RD, WEST BLOOMFIELD, MI 48325 4051 COMMERCE RD, ORCHARD LAKE, MI 48324 1750 CRESCENT LAKE RD, WATERFORD, MI 48327 155 N OPDYKE RD, PONTIAC, MI 48342 274 MARTIN LUTHER KING JR BLVD N, PONTIAC, MI 48342	Per Occurrence: \$2,500,000 Aggregate Limit: \$2,500,000
Flood Sub-Limit at the following Premises: 31835 EVERGREEN RD, BEVERLY HILLS, MI 48025 2844 WALL ST, KEEGO HARBOR, MI 48320 4102 HARVEY LAKE RD, HIGHLAND, MI 48356 29132-29142 STEPHENSON HWY, MADISON HEIGHTS, MI 48071 20450 CONANT ST, DETROIT, MI 48234 31353 DEQUINDRE RD, MADISON HEIGHTS, MI 48071 76 HAMMOND ST, PONTIAC, MI 48342 2211 PAULSEN DR, WATERFORD, MI 48327 4465 LAKE GROVE DR, WHITE LAKE, MI 48383 1400 AJAX DR, MADISON HEIGHTS, MI 48071 1740 CASS LAKE RD, KEEGO HARBOR, MI 48320	Per Occurrence: \$5,000,000 Aggregate Limit: \$5,000,000

The Water Resources Commissioner for Oakland County

Flood Sub-Limit at the following Premises: 700 LONDON ST, BIRMINGHAM, MI 48009 7076 COTTONWOOD KNL, WEST BLOOMFIELD, MI 48322 2191 FINLEY AVE, WATERFORD, MI 48329 1601 CASS LAKE RD, KEEGO HARBOR, MI 48320		Per Occurrence: \$5,000,000 Aggregate Limit: \$5,000,000
Exclusions including but not limited to: <ul style="list-style-type: none"> Flood (Inundation, Back-Up and Mud Flow) at the GWK Retention & Treatment Basin 		
Property Deductibles		
Deductible applies to: • all premises coverages; • all additional coverages; and • debris removal coverage, And all premises, unless corresponding specific information is shown as applicable to a specific premises or coverage.	\$250,000	
Waiting Period applies to: • all premises coverages; • all additional coverages; and • debris removal coverage, And all premises, unless corresponding specific information is shown as applicable to a specific premises or coverage.	24 Hours	
Extended Period	Unlimited	
Business Income - Loss of Utilities - Waiting Period (Consecutive Hours)	48 hours	
Business Income without Extra Expense - Waiting Period (Consecutive Hours)	48 hours	
GWK Retention & Treatment Basis Specific Deductibles:		
○ Debris Removal	\$5,000,000	
○ Building	\$5,000,000	
Earthquake Deductible		
○ Property Damage Per Premises/Per Occurrence Dollar Deductible	\$250,000	
○ Waiting Period Per Premises/Per Occurrence (Consecutive Hours)	24 Hours	
Flood Deductible (Inundation, Back-Up and Mud Flow Included) Premises: 1200 S CRANBROOK RD, BIRMINGHAM, MI 48009 29601 JOHN R RD, MADISON HEIGHTS, MI 48071 1210 SOUTH BLVD W, ROCHESTER HILLS, MI 48309 8771 COOLEY LAKE RD, & WISE RD, HIGHLAND, MI 48357 4633 TAMWORTH ST, COMMERCE TOWNSHIP, MI 48382 24404 W FOURTEEN MILE RD, WEST BLOOMFIELD, MI 48325 4051 COMMERCE RD, ORCHARD LAKE, MI 48324 1750 CRESCENT LAKE RD, WATERFORD, MI 48327 155 N OPDYKE RD, PONTIAC, MI 48342 274 MARTIN LUTHER KING JR BLVD N, PONTIAC, MI 48342		
○ Per Occurrence Waiting Period (Consecutive Hours)	72 Hours	
○ Per Occurrence Dollar Deductible	\$500,000	
Flood Deductible (Inundation, Back-Up and Mud Flow Included) Premises: 31835 EVERGREEN RD, BEVERLY HILLS, MI 48025 2844 WALL ST, KEEGO HARBOR, MI 48320 4102 HARVEY LAKE RD, HIGHLAND, MI 48356 29132-29142 STEPHENSON HWY, MADISON HEIGHTS, MI 48071 20450 CONANT ST, DETROIT, MI 48234 31353 DEQUINDRE RD, MADISON HEIGHTS, MI 48071 76 HAMMOND ST, PONTIAC, MI 48342 2211 PAULSEN DR, WATERFORD, MI 48327 4465 LAKE GROVE DR, WHITE LAKE, MI 48383 1400 AJAX DR, MADISON HEIGHTS, MI 48071 1740 CASS LAKE RD, KEEGO HARBOR, MI 48320		

The Water Resources Commissioner for Oakland County

○ Per Occurrence Waiting Period (Consecutive Hours)	48 Hours
○ Per Occurrence Dollar Deductible	\$250,000
Flood Deductible (Inundation, Back-Up and Mud Flow Included) Premises:	
700 LONDON ST, BIRMINGHAM, MI 48009	
7076 COTTONWOOD KNL, WEST BLOOMFIELD, MI 48322	
2191 FINLEY AVE, WATERFORD, MI 48329	
1601 CASS LAKE RD, KEEGO HARBOR, MI 48320	
○ Per Occurrence Waiting Period (Consecutive Hours)	24 Hours
○ Per Occurrence Dollar Deductible	\$250,000
Other Significant Terms and Conditions / Restrictions	
Machinery Breakdown Included in Property	



2. Acacia Park CSO

AGENDA

DRAINAGE BOARD FOR THE ACACIA PARK CSO DRAIN

December 17, 2024

1. Call meeting to order
2. Approve minutes of meeting of November 26, 2024
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 \$94.00
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

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

November 26, 2024

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

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

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

David Woodward, Chairperson of the 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 memorandum from Lesli Maes, P.E., Operations Engineer, dated November 26, 2024, requesting the Board approve the Disinfection System Improvements project for the Drainage District's Treatment Basin at the cost of \$250,000 utilizing funds from Capital Improvement reserves was presented. It was moved by Markham, supported by Woodward, to approve the Disinfection System Improvements project for the Drainage District's Treatment Basin at the cost of \$250,000 utilizing funds from Capital Improvement reserves as presented.

ADOPTED: Yeas - 3
Nays - 0

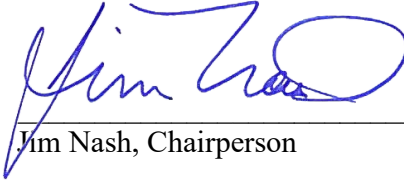
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$98,040.75 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$98,040.75.

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.

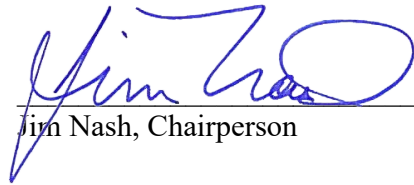


Jim Nash, Chairperson

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 Acacia Park CSO Drain, Oakland County, Michigan, held on the 26th day of November 2024, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



Jim Nash, Chairperson

Dated: November 26, 2024

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



DATE: December 17, 2024

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

Ref No.	Paid To	For	Amount
TBP	Fishbeck	Invoice # 445616- PRJ-17626	\$ 47.00
TBP	Fishbeck	Invoice # 445940 - PRJ-17626	47.00
		Subtotal - Project 1-7626	\$ 94.00
		Grand Total	\$ 94.00

3. Birmingham CSO

AGENDA

DRAINAGE BOARD FOR THE BIRMINGHAM CSO DRAIN

December 17, 2024

1. Call meeting to order
2. Approve minutes of meeting of November 26, 2024
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 \$19,062.00
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

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

November 26, 2024

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

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

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

David Woodward, Chairperson of the 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 memorandum from Lesli Maes, P.E., Operations Engineer, dated November 26, 2024, requesting the Board approve the Disinfection System Improvements project for the Drainage District's Treatment Basin at the cost of \$350,000 utilizing funds from Capital Improvement reserves was presented. It was moved by Markham, supported by Woodward, to approve the Disinfection System Improvements project for the Drainage District's Treatment Basin at the cost of \$350,000 utilizing funds from Capital Improvement reserves 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 \$8,908.00 (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 \$8,908.00.

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.

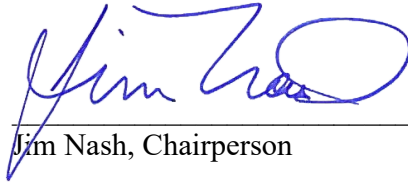


Jim Nash, Chairperson

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 Birmingham CSO Drain, Oakland County, Michigan, held on the 26th day of November 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 Birmingham CSO Drain Drainage District.



Jim Nash, Chairperson

Dated: November 26, 2024

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

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting



DATE: December 17, 2024

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

Ref No.	Paid To	For	Amount
SINV00305757	Systems Specialties	Invoice # 63287 - Materials - Proj 1-7649	\$ 16,638.00
		Project # 1-7649 Total	\$ 16,638.00
TBP	Fishbeck	Invoice # 445616- PRJ-17648	\$ 1,212.00
TBP	Fishbeck	Invoice # 445940- PRJ-17648	1,212.00
		Project # 1-7648 Total	\$ 2,424.00
		Grand Total	\$ 19,062.00

4. Bloomfield Village CSO

AGENDA

DRAINAGE BOARD FOR THE BLOOMFIELD VILLAGE CSO DRAIN

December 17, 2024

1. Call meeting to order
2. Approve minutes of meeting of November 26, 2024
3. Public Comments
4. Present Memorandum from Lesli Maes, P.E., Operations Engineer, dated December 17, 2024, request the Board approve the Influent Flow Meters Replacement project for the Bloomfield Village CSO Retention Treatment Basin at a cost of \$65,000 utilizing funds from Capital Improvement Projects
5. Present Memorandum from George Nichols, P.E., Assistant Chief Engineer, dated December 17, 2024, requesting the Board award the construction contract to Doestch Environmental Services in the amount of \$1,099,085 and authorize the Chairperson to execute the contract
6. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$26,108.50
7. Other business
8. Approve pro rata payment to Drainage Board members
9. Adjourn

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

November 26, 2024

A meeting of the Drainage Board for the Bloomfield Village CSO Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 26th day of November 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 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 memorandum from Lesli Maes, P.E., Operations Engineer, dated November 26, 2024, requesting the Board approve the Disinfection System Improvements project for the Drainage District's Treatment Basin at the cost of \$350,000 utilizing funds from Capital Improvement reserves was presented. It was moved by Markham, supported by Nash to approve the Disinfection System Improvements project for the Drainage District's Treatment Basin at the cost of \$350,000 utilizing funds from Capital Improvement reserves as presented.

ADOPTED: Yeas - 2
Nays - 0


A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$30,321.28 (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 \$30,321.28.

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 Mr. Woodward and Ms. Markham.

ADOPTED: Yeas - 3
Nays - 0

There being no further business, the meeting was adjourned.

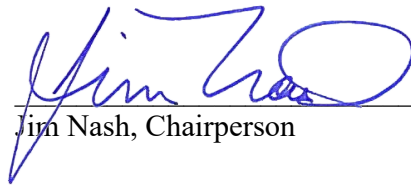


Jim Nash, Chairperson

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 Bloomfield Village CSO Drain, Oakland County, Michigan, held on the 26th day of November 2024, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



Jim Nash, Chairperson

Dated: November 26, 2024

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**

MEMORANDUM

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

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

SUBJECT: Influent Flow Meters Replacement Project

DATE: December 17, 2024

Staff is requesting approval to initiate a project replacing two influent flow meters for the Bloomfield Village Retention Treatment Basin at a cost of \$65,000. The two existing area-velocity meters, originally installed in 2014, measure and record the flow rate of combined sewage entering the facility. The typical lifespan of this type of meter is approximately 10 years. Replacement is recommended for continued reliable operation.

Requested Action: Approve the Influent Flow Meters Replacement project for the Bloomfield Village CSO Retention Treatment Basin at a cost of \$65,000 utilizing funds from Capital Improvement reserves.

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**

MEMORANDUM

TO: Jim Nash, Chairperson of the Drainage Board for the Bloomfield Village CSO Drainage District

FROM: George P. Nichols, P.E., Assistant Chief Engineer *GPN*

SUBJECT: Bloomfield Village – Lincoln Street Grouting Project

DATE: December 17, 2024

Recommendations for cleaning and televising the sewers within the Bloomfield Village CSO Drainage District are continually being identified, evaluated, and planned for by the asset management group, staff engineers, and engineering consultants.

Based on discussion and review of the past sewer evaluations with the engineering consultants Hubbell, Roth & Clark, Inc., the establishment of the Lincoln Street Grouting Project is recommended. The project includes testing and grouting the sewer joints throughout a section of pipe between Lasher Road and Cranbrook Road. This pipe consists of 54-inch, 60-inch, and 66-inch sewer with a portion within the road right of way and other sections located in residential yards, as identified on the attached maps. While the structural integrity of the pipe is in good condition, an investigation revealed a significant calcium buildup and identified areas with joint separation that need to be addressed.

Price proposals from as-needed contractors who specialize in this type of work were obtained from Pipeline Management Company, Inc., and Doestch Environmental Services, Inc. to grout approximately 1,100 joints. The following cost breakdown is provided:

Activity	Doestch Environmental Services	Pipeline Management
Crew Price - labor and equipment (per day)	\$5,190.00	\$9,487.00
Grout Price (per gallon)	\$30.00	\$27.00
Grouting Duration (days)	110	55
Joints Grouted (per day)	10	20
Final Cleaning & CCTV (per day)	\$7,340	\$0.00
Total Cost	\$1,099,085.00	\$970,727.50

Based on a careful review of the project and each proposal, staff recommends awarding the project to Doestch Environment Services, Inc. According to past grouting projects, we believe the work will progress at a faster rate resulting in fewer grouting days. The work will be monitored on a daily basis to ensure that the contractor is within the time schedule and budget. The Water Resources Commissioner's office has previously worked with Doestch Environmental Services on several projects and finds its work to be complete and thorough.

Doestch Environmental Services has the necessary staff, experience and equipment to meet the qualifications to complete this project. The Bloomfield Village CSO Drainage District has the necessary financial resources available to participate in this project.

Requested Action: Award the construction contract to Doestch Environmental Services in the amount of \$1,099,085 and authorize the chairperson to execute the contract.

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

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting



DATE: December 17, 2024

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

Ref No.	Paid To	For	Amount
TBP	H&P Technologies Inc.	Invoice # 1085017 - Materials and Supplies	22,829.00
		Total	\$ 22,829.00
TBP	Fishbeck	Invoice # 445616- PRJ-17651	\$1,363.50
TBP	Fishbeck	Invoice # 445940- PRJ-17651	\$1,363.50
		Total Project 1-7651	\$2,727.00
TBP	Fishbeck	Invoice # 445941- PRJ-17796	\$552.50
		Project # 1-7796 Total	\$ 552.50
		Grand Total	\$ 26,108.50

5. George W. Kuhn Drain

AGENDA

DRAINAGE BOARD FOR THE GEORGE W. KUHN DRAIN

December 17, 2024

1. Call meeting to order
2. Approve minutes of meeting of November 26, 2024
3. Public Comments
4. Present Memorandum from Kelsey Cooke, Manager and Chief Legal Officer, dated December 17, 2024, requesting the Board approve the Detroit Zoological Society's request for the drainage district to cosponsor the project as may be required by the United States Army Corps of Engineers and authorize the Chairperson to execute of the Non-Federal Sponsor's Self-Certification of Financial Capability for Agreements and other documents as may be necessary to finalize the grant approval process
5. Present Memorandum from Stephanie Petriello, Environmental Planner, dated December 17, 2024, requesting the Board receive and file the RainSmart Rebates Pilot Program Update
6. Present Construction Estimate No. 6 for Rolls Mechanical for Construction of the HomeGuard Program in the amount of \$67,780.08
7. Present Construction Estimate No. 5 for Pipeline Management Company for Construction of the 2024 GWK Sewer Cleaning and Inspection in the amount of \$153,423.82 with a reserve payment to the contractor in the amount of \$25,527.61
8. Present Construction Estimate No. 5 for TSP Services, Inc. for Construction of the GWK Parking Lot and Green Infrastructure – Phase 1 for a reserve payment to the contractor in the amount of \$10,055.25
9. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$66,052.03
10. Other business
11. Approve pro rata payment to Drainage Board members
12. Adjourn

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

November 26, 2024

A meeting of the Drainage Board for the George W. Kuhn Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 26th day of November 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 October 22, 2024, were presented for consideration. It was moved by Markham, supported by Nash, 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 Lesli Maes, P.E., Operations Engineer, dated November 26, 2024, requesting the Board approve the GWK Retention Treatment Basin major maintenance and capital improvement projects at a cost of \$326,000 utilizing funds from Major Maintenance and Capital Improvement reserves was presented. It was moved by Markham, supported by Woodward, to approve the GWK Retention Treatment Basin major maintenance and capital improvement projects at a cost of \$326,000 utilizing funds from Major Maintenance and Capital Improvement reserves as presented.

ADOPTED: Yeas - 3
Nays - 0

A memorandum from George Nichols, P.E., Assistant Chief Engineer, dated November 26, 2024, requesting the Board approve the requested compensation for an additional \$15,000 to Hubbell, Roth, & Clark for construction administration services rendered for the 2023 GWK Sewer Cleaning and Inspection project and authorize the Chairperson to sign the additional scope of services letter on behalf of the Board was presented. It was moved by Markham, supported by Woodward, to approve the requested compensation for an additional \$15,000 to Hubbell, Roth, & Clark for construction administration services rendered for the 2023 GWK Sewer Cleaning and Inspection project and authorize the Chairperson to sign the additional scope of services letter on behalf of the Board as presented.

ADOPTED: Yeas - 3
Nays - 0

Change Order No. 2 for TSP Services Inc. for Construction of the GWK Parking Lot and Green Infrastructure Project for a net increase in the amount of \$4,847.10 was presented. It was moved by Markham, supported by Woodward, to approve Change Order No. 2 for TSP Services Inc. for Construction of the GWK Parking Lot and Green Infrastructure Project for a net increase in the amount of \$4,847.10 as presented.

ADOPTED: Yeas - 3
Nays - 0

Change Order No. 1 for Pipeline Management Company, LLC for Construction of the 2024 GWK Sewer Cleaning and Inspection for a net decrease in the amount of \$17,369.29 was presented. It was moved by Markham, supported by Woodward, to approve Change Order No. 1 for Pipeline Management Company, LLC for Construction of the 2024 GWK Sewer Cleaning and Inspection for a net decrease in the amount of \$17,369.29 as presented.

ADOPTED: Yeas - 3
Nays - 0

Construction Estimate No. 5 for Rolls Mechanical for Construction of the HomeGuard Program in the amount of \$42,610.02 was presented. It was moved by Markham, supported by Woodward, to approve Construction Estimate No. 5 for Rolls Mechanical for Construction of the HomeGuard Program in the amount of \$42,610.02 as presented.

ADOPTED: Yeas - 3
Nays - 0

Construction Estimate No. 5 for TSP Services, Inc. for Construction of the GWK Parking Lot and Green Infrastructure – Phase 1 in the amount of \$20,152.64 with a transfer to the Oakland County Treasurer in the amount of \$242.36 was presented. It was moved by Markham, supported by Woodward to approve Construction Estimate No. 5 for TSP Services, Inc. for Construction of the GWK Parking Lot and Green Infrastructure – Phase 1 in the amount of \$20,152.64 with a transfer to the Oakland County Treasurer in the amount of \$242.36 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 \$41,354.76 (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 \$41,354.76.

ADOPTED: Yeas - 3
Nays - 0

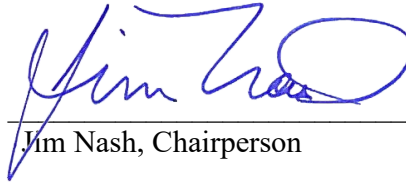
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund from the Construction Fund in the amount of \$8,722.00 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$8,722.00.

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 George W. Kuhn Drain, Oakland County, Michigan, held on the 26th day of November 2024, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



Jim Nash, Chairperson

Dated: November 26, 2024

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**

MEMORANDUM

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

FROM: Kelsey Cooke, Manager and Chief Legal Officer

SUBJECT: Request for Co-Sponsorship; Detroit Zoological Society Stormwater Design Project

DATE: December 17, 2024

The Detroit Zoological Society (DZS) was approved for federal funding through the Water Resources Development Act in conjunction with the United States Army Corps of Engineers and the United States Environmental Protection Agency. The funding relates to design improvements for Pierson Lake and the stormwater management at the Detroit Zoo.ⁱ The design improvements are located in the drainage district service area and include a stormwater retention system and an onsite water treatment facility to reuse stormwater for irrigation and animal use. These elements are designed to reduce 12 million to 16 million gallons of stormwater per year from being included in the drainage district system.ⁱⁱ

The Army Corps has proposed a draft project partnership agreement wherein the DZS would be required to pay 25% of all costs for the design work and undertake other obligations. The estimated project cost is \$1,020,000 and DZS's portion is \$255,000.ⁱⁱⁱ

In the months following the award, the Army Corps determined that the DZS is not an eligible "sole sponsor entity" under its Implementation Guidance and that the DZS was required to have a public body co-sponsor the project.^{iv} The Implementation Guidance reads, in pertinent part:

For study, design, and construction of projects involving any purpose other than ecosystem restoration, a nonprofit entity is eligible to act as a sponsor **as long as a legally constituted public body (which includes a Federally recognized Indian tribe) also will act as a sponsor for the project.** Where a nonprofit entity is one of the sponsors, the agreement must make clear that both sponsors are jointly and severally responsible and liable for the Hold and Save obligations. In addition, the agreement will require in all cases that the public body (alone or jointly with the nonprofit entity) is responsible for operation, maintenance, repair, rehabilitation, and replacement (OMRR&R) of the project.

The public body co-sponsor must demonstrate that it has the full legal and financial authority and capability to implement the terms of the agreement and to pay damages, if necessary, in the event of failure to perform. This raised concerns over the "lending of credit" prohibition in the Michigan Constitution. The Michigan Supreme Court has recognized a "value for value" exemption that there is no lending of credit, and therefore no violation of Mich. Const. Art IX, Sec. 18, if there is a fair exchange of value between the state and the other party. *Alan v. County of Wayne*, 388 Mich. 210, 330 (1972) (the court confirmed this value for value principle by stating that the "prescription against State or county grant of credit is not offended by a fair exchange of value for value."). The rationale for this exemption is that no Art. 9, § 18 state indebtedness occurs since there is a mutual exchange of value. In this instance, the Board could consider and determine that the design project relates to improvements that have value to the drainage district. This, in turn, would address the "lending of credit" issue.

In advance of the Board's consideration, discussions with the DZS have revealed the following:

1. The DZS has its match funds already allocated and reserved in its capital reserve fund and has stated that there is no risk of the DZS not covering its share of the project. The DZS has also stated that it is responsible for any cost overrun. The project is apparently broken down into phases such as Feasibility, Preliminary Design, and Final Design.
2. The Army Corps will be selecting the design engineer and has a full-time project manager from the Detroit District assigned to this project.
3. The DZS is willing to enter into a separate contract with the drainage district as may be prudent or necessary for the drainage district.

Where the Board finds that the project provides a fair exchange of value between the DZS and the drainage district, the “lending of credit” issue would be satisfied, and the drainage district would be authorized to enter into such an agreement under the Michigan Drain Code.

Note that the DZS must also obtain the written consent of the affected local government, which is likely to be the City of Huntington Woods. Note further that the Army Corps has provided a deadline of December 31, 2024 for the DZS to find a viable cosponsor for this project.

RECOMMENDED ACTION: Approve the Detroit Zoological Society’s request for the drainage district to cosponsor the project as may be required by the United States Army Corps of Engineers and authorize the Chairperson to execute the Non-Federal Sponsor’s Self-Certification of Financial Capability for Agreements and other documents as may be necessary to finalize the grant approval process.

ⁱ DZS Pathway to Net Zero Water report dated March 9, 2023

ⁱⁱ DZS Letter dated February 28, 2023 to USACE

ⁱⁱⁱ Draft Agreement Between the Department of the Army and Detroit Zoological Society for Design Assistance for the Detroit Zoo Stormwater Management Project

^{iv} Memorandum for the Director of Civil Works dated circa April 5, 2012 Subject: Implementation Guidelines for Section 2003(b) of the Water Resources Development Act of 2007 – Definition of Non-Federal Interest

**NON-FEDERAL SPONSOR'S
SELF-CERTIFICATION OF FINANCIAL CAPABILITY
FOR AGREEMENTS**

I, _____, do hereby certify that I am the Chief Financial Officer
[OR TITLE OF EQUIVALENT OFFICIAL] of the _____ (the "Non-Federal Sponsor");
that I am aware of the financial obligations of the Non-Federal Sponsor for the Detroit
Zoological Society Stormwater Management Project; and that the Non-Federal Sponsor has the
financial capability to satisfy the Non-Federal Sponsor's obligations under the Project
Partnership Agreement for the Detroit Zoological Society Stormwater Management Project.

IN WITNESS WHEREOF, I have made and executed this certification this _____ day of
_____, _____.

BY: _____

TITLE: _____

DATE: _____

**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: December 17, 2024

RainSmart Rebates, a 2-year residential green stormwater infrastructure rebate pilot program for the George W. Kuhn Drain Drainage District, has successfully completed its first year of implementation. Some key highlights from the year are included in this memo, but additional data is provided in the attached presentation.

- 520 Total Applications (January 1 through August 21 2024)
- 206 Site Assessments
- 135 Completed Sites
 - 123 Homeowner Installed:
 - 146 Rain Barrels
 - 86 Trees
 - 46 Rain Gardens
 - 12 Equity Grant Recipients installed by the Clinton River Watershed Council (CRWC):
 - 13 Rain Barrels
 - 12 Trees
 - 3 Rain Gardens
- \$75,329.05 Year 1 Rebate/Installation Costs
 - \$58,964.47 in rebates to homeowners
 - \$16,364.58 to CRWC for Equity Grant installations

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. This included \$40,000 reserved for Equity Grant installations through the Clinton River Watershed Council. Unallocated funds from Year 1 (2024) will roll over and be utilized in Year 2 (2025).

Requested Action: Receive and file.



RainSmart

— REBATES —

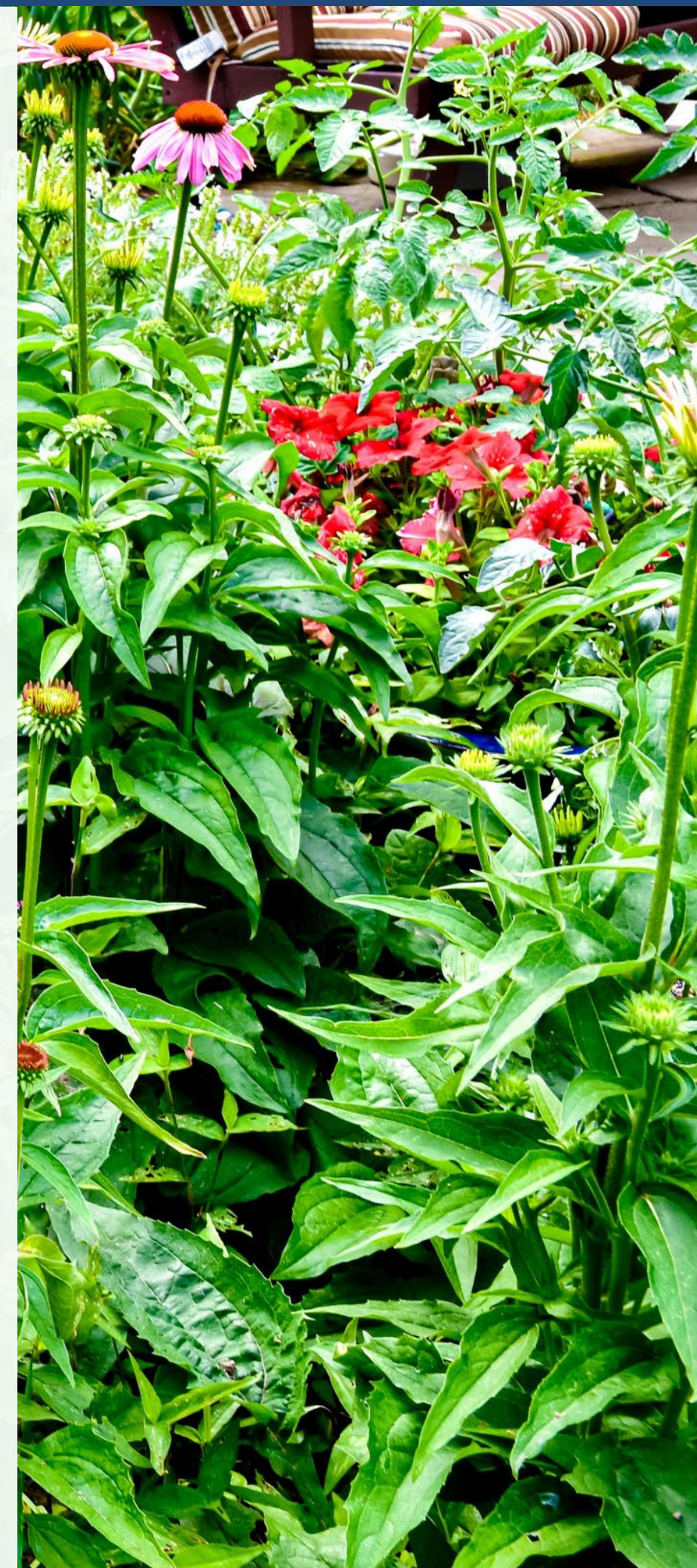


2024 PROGRAM SUMMARY

CHAPTER 20 DRAIN

BOARD MEETING

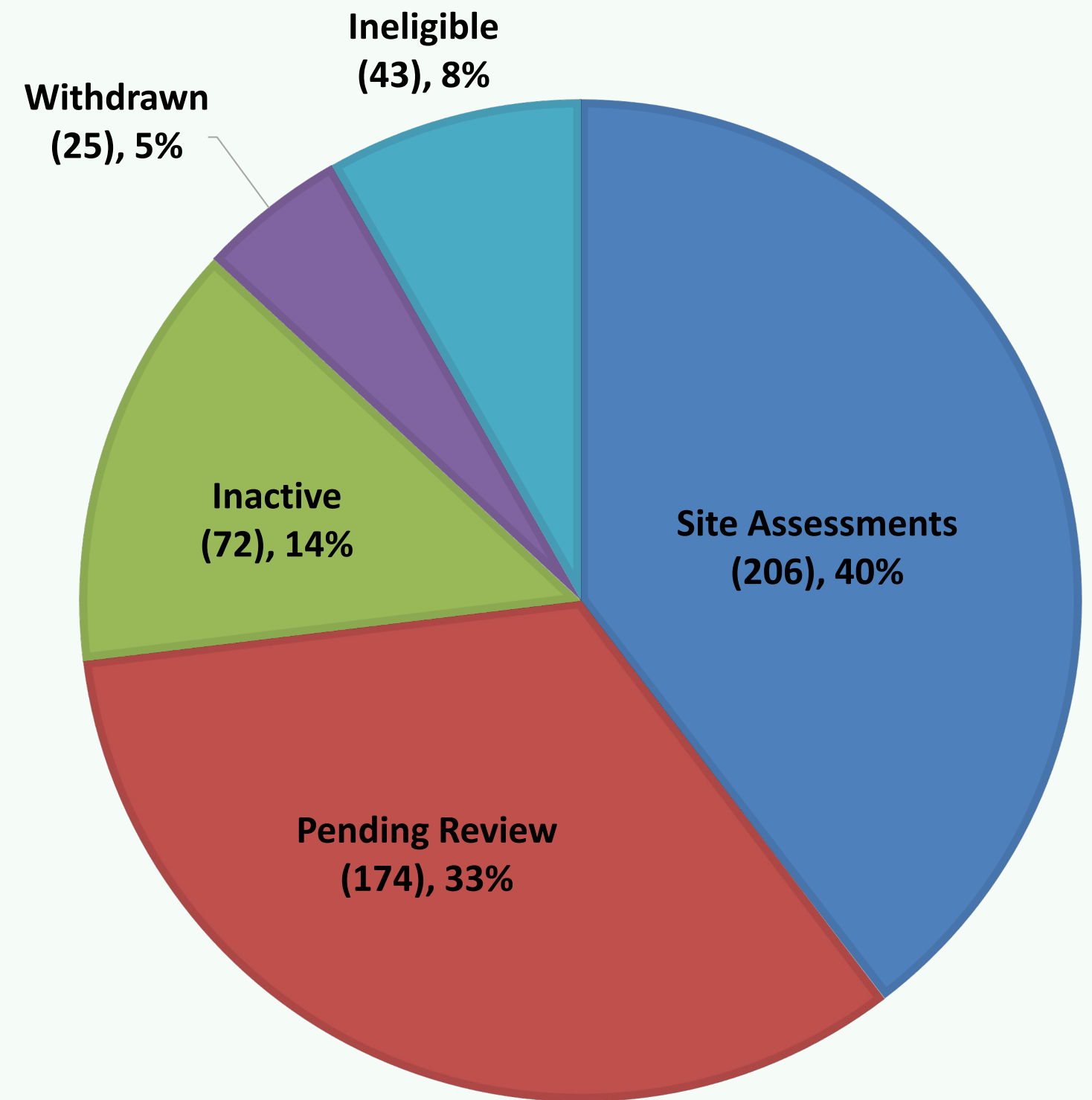
DECEMBER 17, 2024



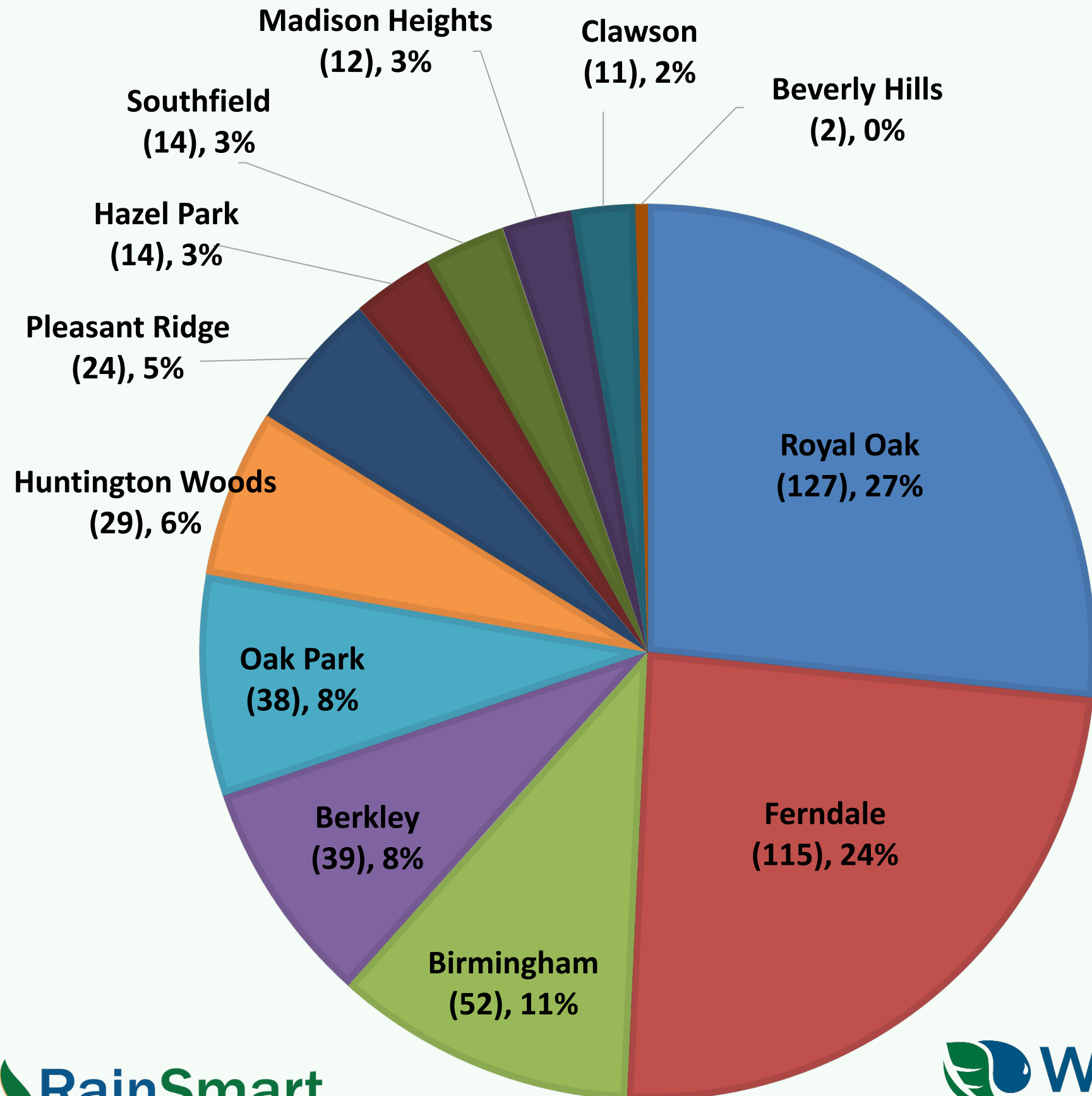
BY THE NUMBERS

- 520 Applications (January 1 – August 21, 2024)
 - Waitlist instituted in February
- 206 Site Assessments
 - 135 Completed Sites
 - 123 Homeowner Installed
 - 12 Equity Grant Recipients (Clinton River Watershed Council Installed)

2024 TOTAL APPLICATIONS (520)



TOTAL ELIGIBLE APPLICANTS (477)

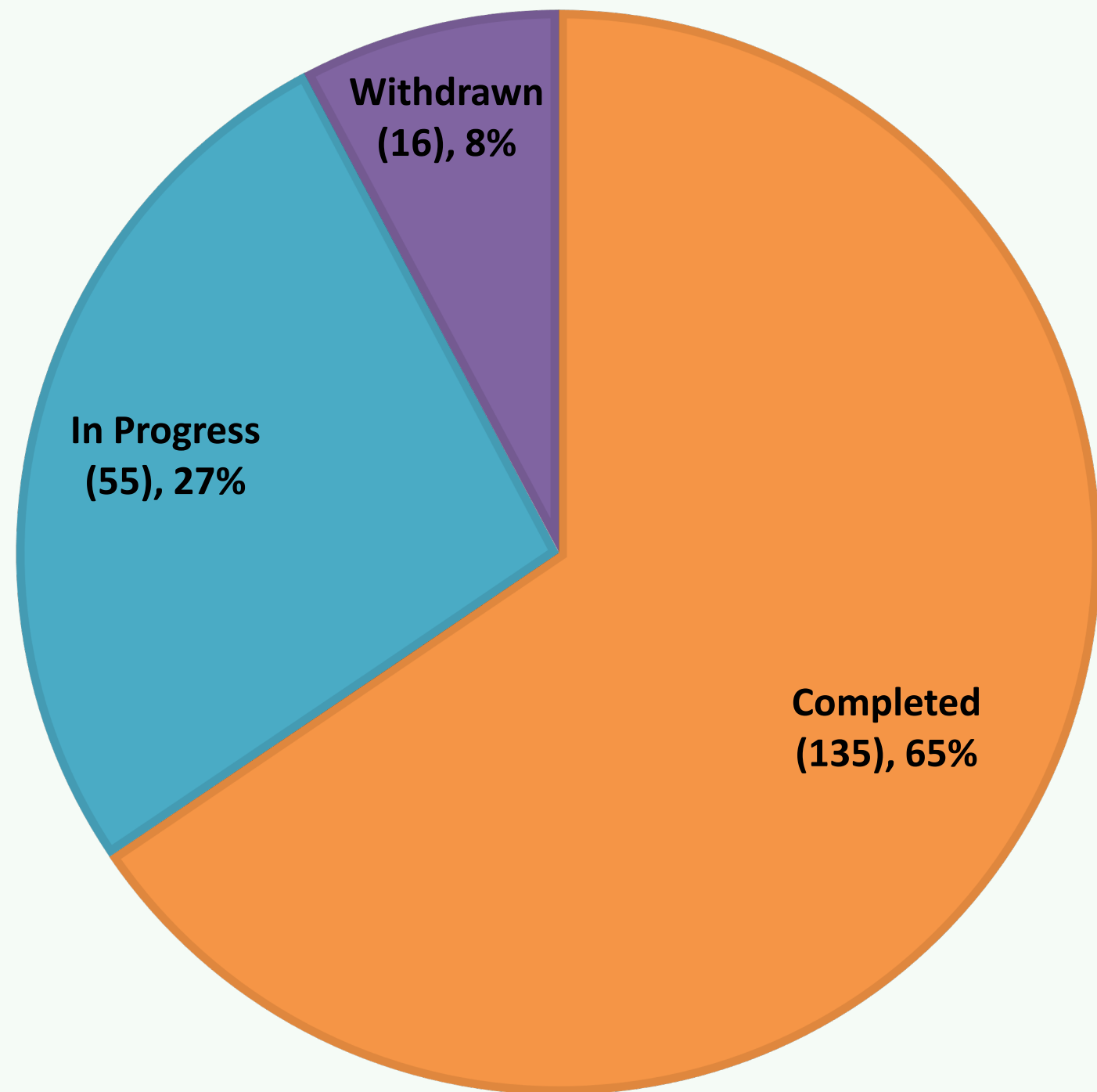


BY THE NUMBERS

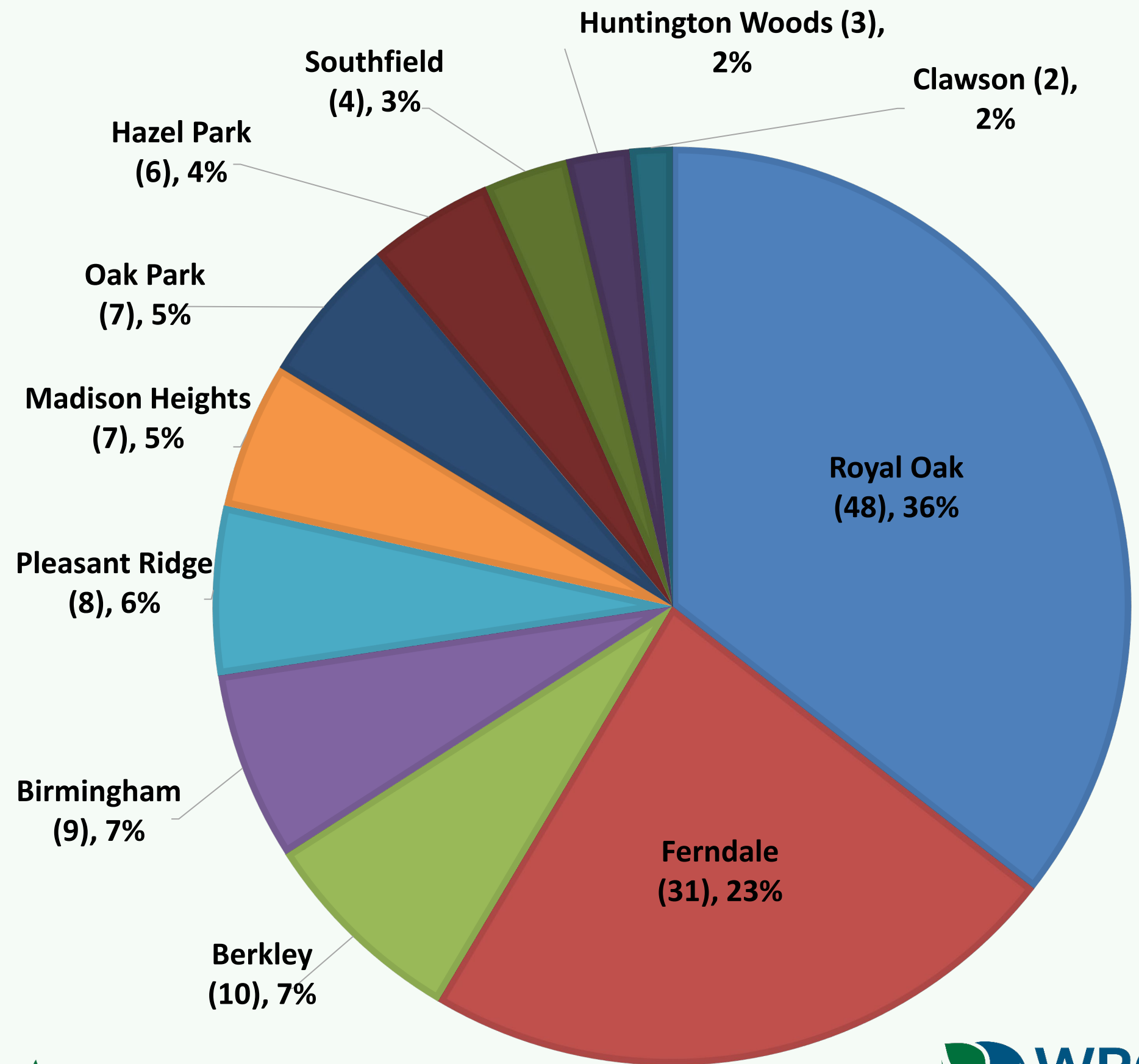
- 477 Eligible Applicants
 - Over 50% from Royal Oak and Ferndale
- 53% (251) indicated interest in the Equity Grant
 - 12 homeowners (~5%) received Equity Grant assistance

BY THE NUMBERS

SITE ASSESSMENTS (206)



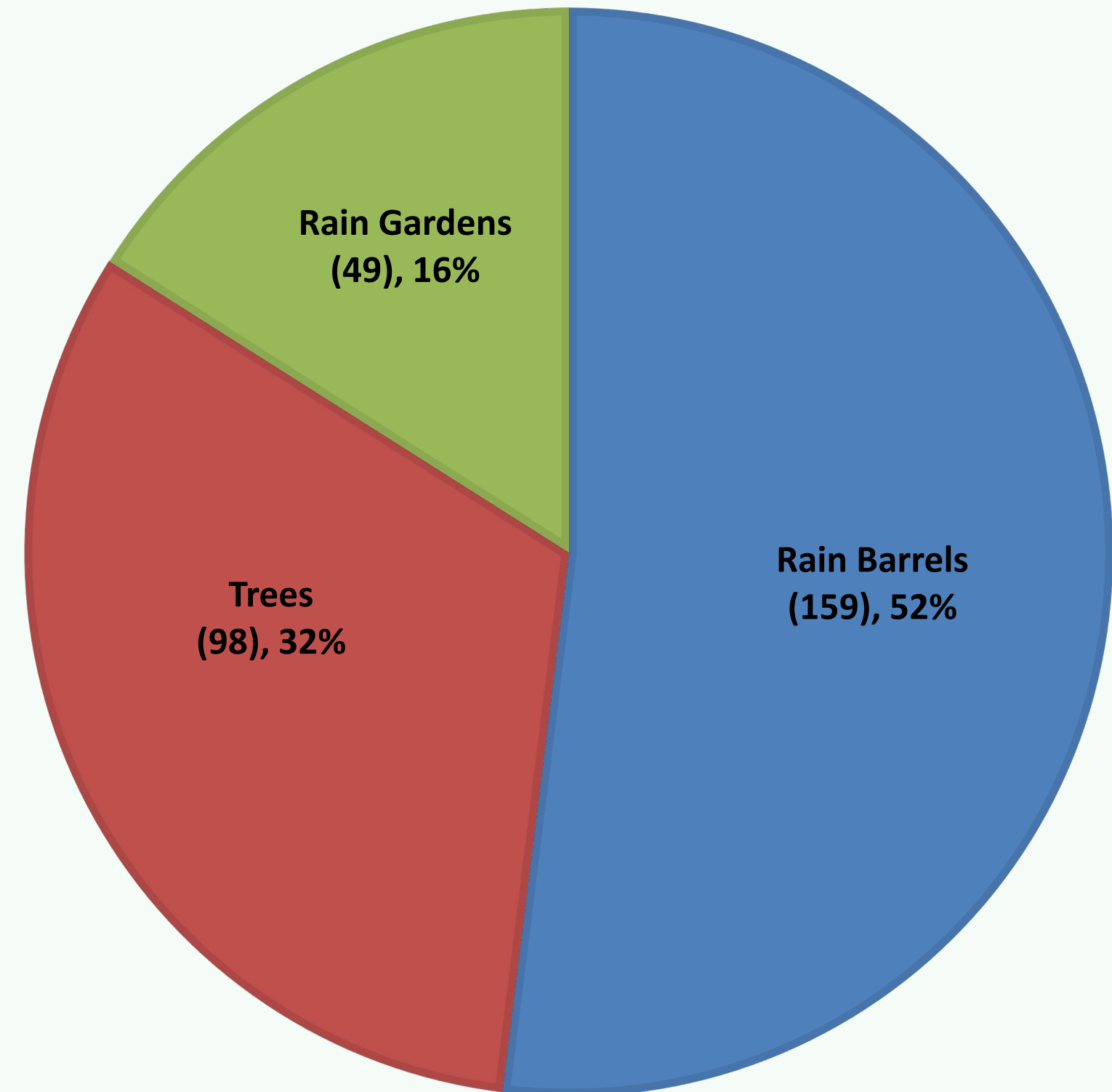
COMPLETED PROJECTS (135)



BY THE NUMBERS

- Rebates ranged from:
 - \$18.01 to \$2,000.00
- \$479.39 Average Rebate
- Average project cost to homeowners:
 - \$8.17/sqft rain garden
 - \$134.80 rain barrel
 - \$296.97 tree

PROJECTS IMPLEMENTED (306)



**Includes Standard and Equity Grant Installations*

COMPLETED PROJECTS MAP: [LINK](#)

RainSmart Rebates Program
Oakland County, MI, George W. Kuhn (GWK) Drain Drainage District

Legend

Completed RainSmart Projects

- Rain Garden
- One Rain Barrel
- Two Rain Barrels
- ▲ One Tree
- ▲ Two Trees
- ◆ Multiple Stormwater Projects

George W. Kuhn (GWK) Drain Drainage District

Filters

▼ **Filter Projects by Type** ☑

Show projects of this type

- All -

▼ **Filter Projects by Municipality** ☑

Show projects in this municipality

- All -

▼ **Filter Projects by Equity Grant Status** ☑

Projects by Municipality

Projects by Type

Completed Project Count

123

Rebate Amount Issued (\$)

58,964.47

BUDGET UPDATE

YEAR 1	BUDGET	ACTUAL	2025 ROLLOVER
Homeowner Rebates	\$ 80,000.00	\$ 58,964.47	\$ 21,035.53
Equity Grant CRWC Costs	\$ 20,000.00	\$ 16,364.58	\$ 3,635.42
TOTAL	\$ 100,000.00	\$ 75,329.05	\$ 24,670.95



Rebate \$	\$ 58,964.47	100%
Royal Oak	\$ 20,637.57	35%
Ferndale	\$ 11,799.20	20%
Berkley	\$ 5,210.35	9%
Madison Heights	\$ 4,745.46	8%
Oak Park	\$ 3,978.85	7%
Birmingham	\$ 3,171.78	5%
Southfield	\$ 2,936.00	5%
Pleasant Ridge	\$ 2,853.21	5%
Hazel Park	\$ 2,038.58	3%
Huntington Woods	\$ 1,134.00	2%
Clawson	\$ 459.47	1%



HOMEOWNER TESTIMONIALS

- “This is an excellent idea and process from start to finish. It is actually refreshing to see that local governments can be proactive, responsive and environmentally conscious.”
- “Everyone is very knowledgeable and helpful. A great program. Reflects well on Michigan and the Clinton Watershed area. I’m very appreciative of reps responsiveness.”
- “This is amazing! You all should do this forever and introduce new projects too. Rain barrels and water conservation/mitigation are so-so important.”



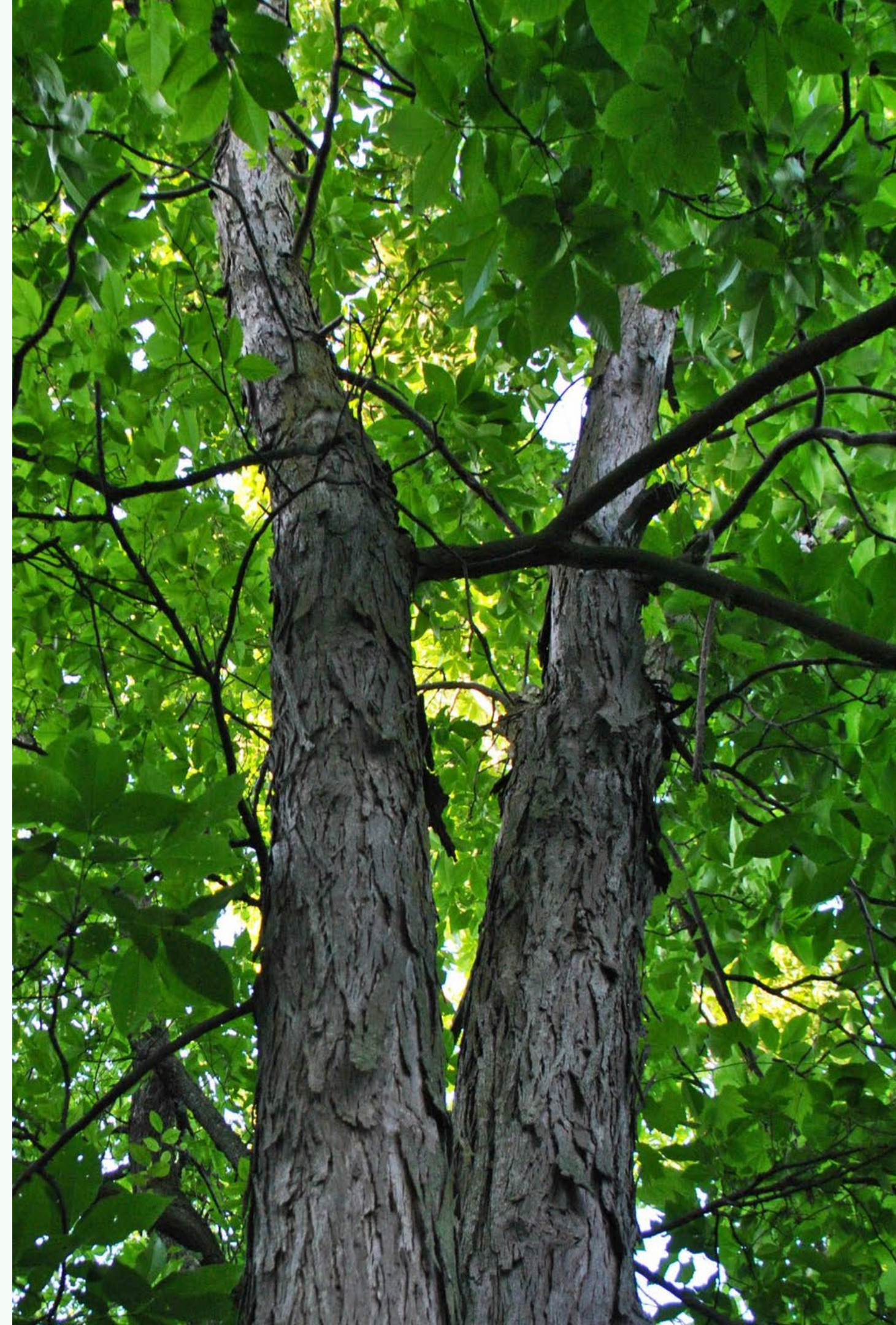


HOMEOWNER TESTIMONIALS

- “The team that came out was so friendly, knowledgeable, and helpful! I have a neighbor excited to use the program if it continues next year as well. Love what you all are doing!”
- “This is such a great program and the resources and workers provided were wonderful, responsive and knowledgeable! Thank you.”
- “Wonderful program, very helpful and knowledgeable people. So glad we did this! With recent rains, we have not had any water in our garage!”
- “It’s an exciting program that allowed us to entirely reimage our front yard in a more sustainable way.”

HOMEOWNER TESTIMONIALS

- “I think this is a great program and hope that you are able to expand it with more funding in future years.”
- “Inspiring. Now that I’ve learned about this type of gardening and gained more awareness to long term water management, we are already making plans to shift the backyard to be more “water wise.” Overall, this program is a 10 out of 10. All of our neighbors walk by and ask questions and we encourage them to look into the program next year.”





QUESTIONS?

STEPHANIE PETRIELLO

Environmental Planner

petriellos@oakgov.com

947-500-7006



rainsmart@oakgov.com

**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. 6

November 1, 2024 to November 30, 2024

Department No. : 6010101
 Fund No. : 58510
 Project No. : 1-7120

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)	\$231,585.12
Less Deductions to Date: (Sheet 2 of 2 Column 7)	\$2,200.00
Gross Estimate: (Work in Place)	\$229,385.12
Less Previous Estimates:	\$161,605.04
Net Payment Request To Be Paid To Contractor:	\$67,780.08

Balance of Contract To Date ✓ \$518,414.88

Accounting Auditor: *BCR* 12/6/2024

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

Date: 12/6/2024

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

Date: 12/4/24

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

Date: 12/11/2024

Approved by Board on: _____

**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. 6		(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Contract Item - Address	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
1	Home Inspection	EA	\$ 225.00	24.0	82.0	106.0	\$23,850.00	\$5,400.00
2	Televiser Sewer Lead	EA	\$ 350.00	18.0	73.0	91.0	\$31,850.00	\$6,300.00
3	Mobilize/Site Preparation	EA	\$ 450.00	7.0	15.0	22.0	\$9,900.00	\$3,150.00
4	Automatic Submersible Sump, 3/10 HP	EA	\$ 340.00	5.0	9.0	14.0	\$4,760.00	\$1,700.00
5	Automatic Submersible Sump, 1/2 HP	EA	\$ 460.00	0.0	1.0	1.0	\$460.00	\$0.00
6	Sump Pump Installation Including 30 LF Discharge Piping	EA	\$ 5,600.00	5.00	10.0	15.00	\$84,000.00	\$28,000.00
7	Additional Sump Pump Discharge Piping	LF	\$ 11.00	60.0	35.0	95.0	\$1,045.00	\$660.00
8	Backwater Valve Installation	EA	\$ 1,500.00	12.0	26.0	38.0	\$57,000.00	\$18,000.00
9	Project Site Clean Up Restoration	EA	\$ 700.00	7.0	15.0	22.0	\$15,400.00	\$4,900.00
10	Additional General Site-Specific Work	\$	\$ 1.00	0.0	2112.5	2112.5	\$2,112.46	\$0.00
11	Permit Fees	\$	\$ 1.00	370.08	837.6	1207.7	\$1,207.66	\$370.08

Change Orders:

					0.0	0.0	\$0.00	\$0.00

Deductions:

	Homeowner Participation Fee	EA	\$ 100.00	7.0	15.0	22.0	\$2,200.00	\$700.00
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ATTACHMENTS:

HomeGuard Cost Sheets from COG
 Contractor's Payment Request
 Contractor's Declaration/Affidavit

Total Amount to Date	\$231,585.12
Total Amount This Estimate	\$68,480.08
Change Orders to Date	\$0.00
Change Orders This Estimate	\$0.00
Deductions to Date	\$2,200.00
Deductions This Estimate	\$700.00
Payment This Estimate	\$67,780.08

CONSTRUCTION ESTIMATE

Jim Nash, Oakland County Water Resources Commissioner
For Construction of the 2024 GWK Sewer Cleaning and Inspection
George W. Kuhn Drain Drainage District
Oakland County, Michigan

Final Construction Estimate No. 5

August 25, 2024 to October 24, 2024

Department No. : 6010101
Fund No. : 58510
Project No. : PRJ-17409

Account No. : 730373
Program No. : 149127
Activity : FAC
Contract No. : 10919

Contractor :
Pipeline Management Company
2673 E. Maple Road
Milford, MI 48381

Date of Contract : April 8, 2024
Completion Date : February 2, 2025

Table with 2 columns: Description, Amount. Rows include Original Contract Amount (\$510,552.20), Previous Change Order Numbers (none) (\$0.00), Change Orders This Estimate Numbers: One (1) (\$17,369.29), Total Net Change Orders (\$17,369.29), Final Contract Amount (\$493,182.91).

Table with 2 columns: Description, Amount. Rows include Final Subtotal (\$493,182.91), Less Deductions (\$0.00), Gross Estimate: (Work in Place) 100.00% (\$493,182.91), Less Amount Reserved (\$0.00), Total Amount Allowed To Date (\$493,182.91), Less Previous Estimates (\$314,231.48), Final Payment Request To Be Paid To Contractor (\$153,423.82), Final Reserve Payment to Contractor (\$25,527.61).

Balance of Contract To Date \$0.00 Accounting Auditor: BCR 12/3/2024

Table with 2 columns: Description, Amount. Rows include Less Previous Transfers To Reserve (\$25,527.61), Amount of Current Transfer: Released (\$25,527.61).

Prepared by: George P. Nichols, P.E., Assistant Chief Engineer

Date: 12/4/24

Recommended by: Matthew Hughes, P.E., Hubbell, Roth & Clark

Date: 12/4/2024

Approved by: Evangelos Bantios, P.E., Chief Engineer

Date: 12-9-2024

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

Date:

Approved by Board on:

**Jim Nash, Oakland County Water Resources Commissioner
For Construction of the 2024 GWK Sewer Cleaning and Inspection
George W. Kuhn Drain Drainage District
Oakland County, Michigan**

Final Construction Estimate No. 5	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment (AGM Length)	Total Quantity Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
Royal Oak Main Drain								
1 Mobilization (5% Max)	1	LS	2,000.00	1.0	0.0	1.0	\$2,000.00	\$2,000.00
2 Project Management	1	LS	1.00	1.0	0.0	1.0	\$1.00	\$1.00
3 Permit Allowance	200	DLR	1.00	100.0	0.0	100.0	\$100.00	\$100.00
4 Clean and Telesive, PACP Reporting, 132" Combined Sewer	2,985	LFT	4.15	2945.0	0.0	2945.0	\$12,221.75	\$12,221.75
5 Clean and Telesive, PACP Reporting, 150" Combined Sewer	4,115	LFT	4.15	4115.0	0.0	4115.0	\$17,077.25	\$17,077.25
6 Clean and Telesive, PACP Reporting, 180" Combined Sewer	180	LFT	4.15	111.0	0.0	111.0	\$460.65	\$460.65
7 Clean and Telesive, PACP Reporting, Horseshoe, Combined Sewer	2,528	LFT	4.15	2567.0	0.0	2567.0	\$10,653.05	\$10,653.05
8 Locate and Expose Manhole, As Required	1	EA	1.00	0.0	0.0	0.0	\$0.00	\$0.00
9 Maintaining Traffic	1	LS	1,000.00	1.0	0.0	1.0	\$1,000.00	\$1,000.00
10 Restoration	1	LS	1.00	1.0	0.0	1.0	\$1.00	\$1.00
Allen Branch								
11 Mobilization (5% Max)	1	LS	7,000.00	0.0	1.0	1.0	\$7,000.00	\$0.00
12 Project Management	1	LS	10,000.00	0.0	1.0	1.0	\$10,000.00	\$0.00
13 Permit Allowance	1,000	DLR	1.00	570.0	0.0	570.0	\$570.00	\$570.00
14 Clean and Telesive, PACP Reporting, 8" Combined Sewer	37	LFT	4.15	0.0	16.0	16.0	\$66.40	\$0.00
15 Clean and Telesive, PACP Reporting, 10" Combined Sewer	109	LFT	4.15	0.0	32.0	32.0	\$132.80	\$0.00
16 Clean and Telesive, PACP Reporting, 12" Combined Sewer	109	LFT	4.15	0.0	30.0	30.0	\$124.50	\$0.00
17 Clean and Telesive, PACP Reporting, 18" Combined Sewer	161	LFT	4.15	0.0	155.0	155.0	\$643.25	\$0.00
18 Clean and Telesive, PACP Reporting, 24" Combined Sewer	73	LFT	4.15	0.0	20.0	20.0	\$83.00	\$0.00
19 Clean and Telesive, PACP Reporting, 30" Combined Sewer	1,690	LFT	4.15	0.0	1707.0	1707.0	\$7,084.05	\$0.00
20 Clean and Telesive, PACP Reporting, 36" Combined Sewer	2,969	LFT	4.15	0.0	3005.0	3005.0	\$12,470.75	\$0.00
21 Clean and Telesive, PACP Reporting, 48" Combined Sewer	1,294	LFT	4.15	0.0	1290.0	1290.0	\$5,355.50	\$0.00
22 Clean and Telesive, PACP Reporting, 54" Combined Sewer	3,107	LFT	4.15	0.0	1597.5	1597.5	\$6,629.63	\$0.00
23 Clean and Telesive, PACP Reporting, 60" Combined Sewer	1,952	LFT	4.15	0.0	1959.0	1959.0	\$8,129.85	\$0.00
24 Clean and Telesive, PACP Reporting, 66" Combined Sewer	1,778	LFT	4.15	0.0	2167.9	2167.9	\$8,996.79	\$0.00
25 Clean and Telesive, PACP Reporting, 84" Combined Sewer	3,466	LFT	4.15	0.0	3514.0	3514.0	\$14,583.10	\$0.00
26 Clean and Telesive, PACP Reporting, 90" Combined Sewer	4,445	LFT	4.15	0.0	4432.0	4432.0	\$18,392.80	\$0.00
27 Clean and Telesive, PACP Reporting, 108" Combined Sewer	4,389	LFT	4.15	0.0	2391.0	2391.0	\$9,922.65	\$0.00
28 Clean and Telesive, PACP Reporting, 114" Combined Sewer	5,986	LFT	4.15	0.0	5701.0	5701.0	\$23,659.15	\$0.00
29 Clean and Telesive, PACP Reporting, 120" Combined Sewer	3,826	LFT	4.15	0.0	3892.0	3892.0	\$16,151.80	\$0.00
30 Clean and Telesive, PACP Reporting, 126" Combined Sewer	997	LFT	4.15	0.0	1020.0	1020.0	\$4,233.00	\$0.00
31 Locate and Expose Manhole, As Required	1	EA	1.00	0.0	0.0	0.0	\$0.00	\$0.00
32 Maintaining Traffic	1	LS	2,000.00	0.0	1.0	1.0	\$2,000.00	\$0.00
33 Restoration	1	LS	1.00	0.0	1.0	1.0	\$1.00	\$0.00
Hubbard Branch								
34 Mobilization (5% Max)	1	LS	5,000.00	0.0	1.0	1.0	\$5,000.00	\$0.00
35 Project Management	1	LS	1.00	0.0	1.0	1.0	\$1.00	\$0.00
36 Permit Allowance	200	DLR	1.00	0.0	0.0	0.0	\$0.00	\$0.00
37 Clean and Telesive, PACP Reporting, 24" Combined Sewer	323	LFT	4.15	125.0	0.0	125.0	\$518.75	\$518.75
38 Clean and Telesive, PACP Reporting, 36" Combined Sewer	3,476	LFT	4.15	3553.0	0.0	3553.0	\$14,744.95	\$14,744.95
39 Clean and Telesive, PACP Reporting, 54" Combined Sewer	4,871	LFT	4.15	0.0	4884.0	4884.0	\$20,268.60	\$0.00
40 Clean and Telesive, PACP Reporting, 66" Combined Sewer	2,708	LFT	4.15	0.0	2736.0	2736.0	\$11,354.40	\$0.00
41 Clean and Telesive, PACP Reporting, 72" Combined Sewer	1,411	LFT	4.15	0.0	1437.0	1437.0	\$5,963.55	\$0.00
42 Clean and Telesive, PACP Reporting, 78" Combined Sewer	2,487	LFT	4.15	0.0	2491.0	2491.0	\$10,337.65	\$0.00
43 Clean and Telesive, PACP Reporting, 84" Combined Sewer	3,670	LFT	4.15	1887.0	1746.0	3633.0	\$15,076.95	\$7,831.05
44 Clean and Telesive, PACP Reporting, 96" Combined Sewer	1,489	LFT	4.15	1481.0	0.0	1481.0	\$6,146.15	\$6,146.15
45 Clean and Telesive, PACP Reporting, 108" Combined Sewer	4,023	LFT	4.15	4035.0	0.0	4035.0	\$16,745.25	\$16,745.25
46 Locate and Expose Manhole, As Required	5	EA	1.00	0.0	0.0	0.0	\$0.00	\$0.00
47 Maintaining Traffic	1	LS	1,000.00	0.0	1.0	1.0	\$1,000.00	\$0.00
48 Restoration	1	LS	1.00	0.0	1.0	1.0	\$1.00	\$0.00
East Clawson Drain								
49 Mobilization (5% Max)	1	LS	3,000.00	1.0	0.0	1.0	\$3,000.00	\$3,000.00
50 Project Management	1	LS	1.00	1.0	0.0	1.0	\$1.00	\$1.00
51 Permit Allowance	200	DLR	1.00	0.0	0.0	0.0	\$0.00	\$0.00
52 Clean and Telesive, PACP Reporting, 10" Combined Sewer	1,291	LFT	4.15	1090.0	0.0	1090.0	\$4,523.50	\$4,523.50
53 Clean and Telesive, PACP Reporting, 36" Combined Sewer	2,246	LFT	4.15	2229.0	0.0	2229.0	\$9,250.35	\$9,250.35
54 Clean and Telesive, PACP Reporting, 42" Combined Sewer	894	LFT	4.15	1036.0	0.0	1036.0	\$4,299.40	\$4,299.40
55 Clean and Telesive, PACP Reporting, 54" Combined Sewer	2,304	LFT	4.15	2333.0	0.0	2333.0	\$9,681.95	\$9,681.95
56 Clean and Telesive, PACP Reporting, 60" Combined Sewer	748	LFT	4.15	716.0	0.0	716.0	\$2,971.40	\$2,971.40
57 Clean and Telesive, PACP Reporting, 66" Combined Sewer	2,578	LFT	4.15	2560.0	0.0	2560.0	\$10,624.00	\$10,624.00
58 Clean and Telesive, PACP Reporting, 72" Combined Sewer	669	LFT	4.15	668.0	0.0	668.0	\$2,772.20	\$2,772.20
59 Clean and Telesive, PACP Reporting, 78" Combined Sewer	656	LFT	4.15	654.0	0.0	654.0	\$2,714.10	\$2,714.10
60 Clean and Telesive, PACP Reporting, 90" Combined Sewer	2,620	LFT	4.15	2654.0	0.0	2654.0	\$11,014.10	\$11,014.10
61 Locate and Expose Manhole, As Required	4	EA	1.00	0.0	0.0	0.0	\$0.00	\$0.00
62 Maintaining Traffic	1	LS	2,500.00	1.0	0.0	1.0	\$2,500.00	\$2,500.00
63 Restoration	1	LS	1.00	1.0	0.0	1.0	\$1.00	\$1.00
Ferndale Nine Mile Drain								
64 Mobilization (5% Max)	1	LS	400.00	0.0	1.0	1.0	\$400.00	\$0.00
65 Project Management	1	LS	1.00	0.0	1.0	1.0	\$1.00	\$0.00
66 Permit Allowance	500	DLR	1.00	0.0	0.0	0.0	\$0.00	\$0.00
67 Clean and Telesive, PACP Reporting, 12" Combined Sewer	12	LFT	4.15	0.0	2.0	2.0	\$8.30	\$0.00
68 Clean and Telesive, PACP Reporting, 24" Combined Sewer	1,087	LFT	4.15	0.0	1081.0	1081.0	\$4,486.15	\$0.00
69 Clean and Telesive, PACP Reporting, 30" Combined Sewer	800	LFT	4.15	0.0	787.0	787.0	\$3,266.05	\$0.00
70 Locate and Expose Manhole, As Required	1	EA	1.00	0.0	0.0	0.0	\$0.00	\$0.00
71 Maintaining Traffic	1	LS	1,000.00	0.0	1.0	1.0	\$1,000.00	\$0.00
72 Restoration	1	LS	1.00	0.0	1.0	1.0	\$1.00	\$0.00
McClain Drain								
73 Mobilization (5% Max)	1	LS	1,500.00	0.0	1.0	1.0	\$1,500.00	\$0.00
74 Project Management	1	LS	1.00	0.0	1.0	1.0	\$1.00	\$0.00
75 Permit Allowance	200	DLR	1.00	0.0	0.0	0.0	\$0.00	\$0.00
76 Clean and Telesive, PACP Reporting, 33" Combined Sewer	372	LFT	4.15	0.0	380.0	380.0	\$1,577.00	\$0.00
77 Clean and Telesive, PACP Reporting, 36" Combined Sewer	600	LFT	4.15	0.0	602.0	602.0	\$2,498.30	\$0.00
78 Clean and Telesive, PACP Reporting, 54" Combined Sewer	1,014	LFT	4.15	0.0	1008.0	1008.0	\$4,183.20	\$0.00
79 Clean and Telesive, PACP Reporting, 60" Combined Sewer	998	LFT	4.15	0.0	1003.0	1003.0	\$4,162.45	\$0.00
80 Clean and Telesive, PACP Reporting, 66" Combined Sewer	1,888	LFT	4.15	0.0	1895.0	1895.0	\$7,864.25	\$0.00
81 Clean and Telesive, PACP Reporting, 72" Combined Sewer	2,128	LFT	4.15	0.0	2135.0	2135.0	\$8,860.25	\$0.00
82 Clean and Telesive, PACP Reporting, 78" Combined Sewer	1,300	LFT	4.15	0.0	1280.0	1280.0	\$5,312.00	\$0.00
83 Locate and Expose Manhole, As Required	1	EA	1.00	0.0	0.0	0.0	\$0.00	\$0.00
84 Maintaining Traffic	1	LS	1,500.00	0.0	1.0	1.0	\$1,500.00	\$0.00
85 Restoration	1	LS	1.00	0.0	1.0	1.0	\$1.00	\$0.00

**Jim Nash, Oakland County Water Resources Commissioner
For Construction of the 2024 GWK Sewer Cleaning and Inspection
George W. Kuhn Drain Drainage District
Oakland County, Michigan**

Final Construction Estimate No. 5	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment (AGM Length)	Total Quantity Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
Shaberman Drain								
86 Mobilization (5% Max)	1	LS	1,000.00	0.0	1.0	1.0	\$1,000.00	\$0.00
87 Project Management	1	LS	1.00	0.0	1.0	1.0	\$1.00	\$0.00
88 Permit Allowance	200	DLR	1.00	0.0	0.0	0.0	\$0.00	\$0.00
89 Clean and Televise, PACP Reporting, 12" Combined Sewer	171	LFT	4.15	0.0	112.0	112.0	\$464.80	\$0.00
90 Clean and Televise, PACP Reporting, 90" Combined Sewer	4,649	LFT	4.15	0.0	4664.0	4664.0	\$19,355.60	\$0.00
91 Locate and Expose Manhole, As Required	1	EA	1.00	0.0	0.0	0.0	\$0.00	\$0.00
92 Maintaining Traffic	1	LS	1,000.00	0.0	1.0	1.0	\$1,000.00	\$0.00
93 Restoration	1	LS	1.00	0.0	1.0	1.0	\$1.00	\$0.00
Schubiner Drain								
94 Mobilization (5% Max)	1	LS	2,500.00	0.0	1.0	1.0	\$2,500.00	\$0.00
95 Project Management	1	LS	1.00	0.0	1.0	1.0	\$1.00	\$0.00
96 Permit Allowance	200	DLR	1.00	0.0	0.0	0.0	\$0.00	\$0.00
97 Clean and Televise, PACP Reporting, 10" Combined Sewer	88	LFT	4.15	0.0	68.0	68.0	\$282.20	\$0.00
98 Clean and Televise, PACP Reporting, 12" Combined Sewer	4,110	LFT	4.15	0.0	4066.0	4066.0	\$16,873.90	\$0.00
99 Clean and Televise, PACP Reporting, 15" Combined Sewer	1,089	LFT	4.15	0.0	1107.0	1107.0	\$4,594.05	\$0.00
100 Clean and Televise, PACP Reporting, 18" Combined Sewer	304	LFT	4.15	0.0	315.0	315.0	\$1,307.25	\$0.00
101 Clean and Televise, PACP Reporting, 24" Combined Sewer	288	LFT	4.15	0.0	294.0	294.0	\$1,220.10	\$0.00
102 Clean and Televise, PACP Reporting, 30" Combined Sewer	288	LFT	4.15	0.0	295.0	295.0	\$1,224.25	\$0.00
103 Clean and Televise, PACP Reporting, 36" Combined Sewer	297	LFT	4.15	0.0	296.0	296.0	\$1,228.40	\$0.00
104 Clean and Televise, PACP Reporting, 42" Combined Sewer	1,418	LFT	4.15	0.0	1441.0	1441.0	\$5,980.15	\$0.00
105 Clean and Televise, PACP Reporting, 54" Combined Sewer	741	LFT	4.15	0.0	739.0	739.0	\$3,066.85	\$0.00
106 Clean and Televise, PACP Reporting, 66" Combined Sewer	382	LFT	4.15	0.0	383.0	383.0	\$1,589.45	\$0.00
107 Clean and Televise, PACP Reporting, 72" Combined Sewer	2,618	LFT	4.15	0.0	2660.0	2660.0	\$11,039.00	\$0.00
108 Clean and Televise, PACP Reporting, 84" Combined Sewer	366	LFT	4.15	0.0	365.0	365.0	\$1,514.75	\$0.00
109 Locate and Expose Manhole, As Required	1	EA	1.00	0.0	0.0	0.0	\$0.00	\$0.00
110 Maintaining Traffic	1	LS	2,000.00	0.0	1.0	1.0	\$2,000.00	\$0.00
111 Restoration	1	LS	1.00	0.0	1.0	1.0	\$1.00	\$0.00

Change Orders:

Change Order No. 1	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment (AGM Length)	Total Quantity Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
Royal Oak Main Drain								
A-1 Permit Allowance (Bid Item #3)	(100)	DLR	\$1.00	N/A	N/A	N/A	N/A	N/A
A-2 Clean and Televise, PACP Reporting, 132" Combined Sewer (Bid Item #4)	(40)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-3 Clean and Televise, PACP Reporting, 180" Combined Sewer (Bid Item #6)	(69)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-4 Clean and Televise, PACP Reporting, Horseshoe, Combined Sewer (Bid Item #7)	39	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-5 Locate and Expose Manhole, As Required (Bid Item #8)	(1)	EA	\$1.00	N/A	N/A	N/A	N/A	N/A
Allen Branch								
A-6 Permit Allowance (Bid Item #13)	(430)	DLR	\$1.00	N/A	N/A	N/A	N/A	N/A
A-7 Clean and Televise, PACP Reporting, 8" Combined Sewer (Bid Item #14)	(21)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-8 Clean and Televise, PACP Reporting, 10" Combined Sewer (Bid Item #15)	(77)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-9 Clean and Televise, PACP Reporting, 12" Combined Sewer (Bid Item #16)	(79)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-10 Clean and Televise, PACP Reporting, 15" Combined Sewer	15	LFT	\$4.15	15.0	0.0	15.0	\$62.25	\$62.25
A-11 Clean and Televise, PACP Reporting, 18" Combined Sewer (Bid Item #17)	(6)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-12 Clean and Televise, PACP Reporting, 24" Combined Sewer (Bid Item #18)	(53)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-13 Clean and Televise, PACP Reporting, 30" Combined Sewer (Bid Item #19)	17	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-14 Clean and Televise, PACP Reporting, 36" Combined Sewer (Bid Item #20)	36	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-15 Clean and Televise, PACP Reporting, 48" Combined Sewer (Bid Item #21)	(4)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-16 Clean and Televise, PACP Reporting, 54" Combined Sewer (Bid Item #22)	(1,510)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-17 Clean and Televise, PACP Reporting, 60" Combined Sewer (Bid Item #23)	7	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-18 Clean and Televise, PACP Reporting, 66" Combined Sewer (Bid Item #24)	390	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-19 Clean and Televise, PACP Reporting, 84" Combined Sewer (Bid Item #25)	48	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-20 Clean and Televise, PACP Reporting, 90" Combined Sewer (Bid Item #26)	(13)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-21 Clean and Televise, PACP Reporting, 108" Combined Sewer (Bid Item #27)	(1,998)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-22 Clean and Televise, PACP Reporting, 114" Combined Sewer (Bid Item #28)	(285)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-23 Clean and Televise, PACP Reporting, 120" Combined Sewer (Bid Item #29)	66	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-24 Clean and Televise, PACP Reporting, 126" Combined Sewer (Bid Item #30)	23	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-25 Locate and Expose Manhole, As Required (Bid Item #31)	(1)	EA	\$1.00	N/A	N/A	N/A	N/A	N/A
Hubbard Branch								
A-26 Permit Allowance (Bid Item #36)	(200)	DLR	\$1.00	N/A	N/A	N/A	N/A	N/A
A-27 Clean and Televise, PACP Reporting, 24" Combined Sewer (Bid Item #37)	(198)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-28 Clean and Televise, PACP Reporting, 36" Combined Sewer (Bid Item #38)	77	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-29 Clean and Televise, PACP Reporting, 54" Combined Sewer (Bid Item #39)	13	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-30 Clean and Televise, PACP Reporting, 66" Combined Sewer (Bid Item #40)	28	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-31 Clean and Televise, PACP Reporting, 72" Combined Sewer (Bid Item #41)	26	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-32 Clean and Televise, PACP Reporting, 78" Combined Sewer (Bid Item #42)	4	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-33 Clean and Televise, PACP Reporting, 84" Combined Sewer (Bid Item #43)	(37)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-34 Clean and Televise, PACP Reporting, 96" Combined Sewer (Bid Item #44)	(8)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-35 Clean and Televise, PACP Reporting, 108" Combined Sewer (Bid Item #45)	12	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-36 Locate and Expose Manhole, As Required (Bid Item #46)	(5)	EA	\$1.00	N/A	N/A	N/A	N/A	N/A
East Clawson Drain								
A-37 Permit Allowance (Bid Item #51)	(200)	DLR	\$1.00	N/A	N/A	N/A	N/A	N/A
A-38 Clean and Televise, PACP Reporting, 10" Combined Sewer (Bid Item #52)	(201)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-39 Clean and Televise, PACP Reporting, 36" Combined Sewer (Bid Item #53)	(17)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-40 Clean and Televise, PACP Reporting, 42" Combined Sewer (Bid Item #54)	142	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-41 Clean and Televise, PACP Reporting, 54" Combined Sewer (Bid Item #55)	29	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-42 Clean and Televise, PACP Reporting, 60" Combined Sewer (Bid Item #56)	(32)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-43 Clean and Televise, PACP Reporting, 66" Combined Sewer (Bid Item #57)	(18)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-44 Clean and Televise, PACP Reporting, 72" Combined Sewer (Bid Item #58)	(1)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-45 Clean and Televise, PACP Reporting, 78" Combined Sewer (Bid Item #59)	(2)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-46 Clean and Televise, PACP Reporting, 90" Combined Sewer (Bid Item #60)	34	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-47 Locate and Expose Manhole, As Required (Bid Item #61)	(4)	EA	\$1.00	N/A	N/A	N/A	N/A	N/A
Ferndale Nine Mile Drain								
A-48 Permit Allowance (Bid Item #66)	(500)	DLR	\$1.00	N/A	N/A	N/A	N/A	N/A
A-49 Clean and Televise, PACP Reporting, 12" Combined Sewer (Bid Item #67)	(10)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-50 Clean and Televise, PACP Reporting, 24" Combined Sewer (Bid Item #68)	(6)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-51 Clean and Televise, PACP Reporting, 30" Combined Sewer (Bid Item #69)	(13)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A

Jim Nash, Oakland County Water Resources Commissioner
For Construction of the 2024 GWK Sewer Cleaning and Inspection
George W. Kuhn Drain Drainage District
Oakland County, Michigan

Final Construction Estimate No. 5		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Contract Item		Bid Quantity	Unit	Unit Price	Quantity This Payment (AGM Length)	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
A-52	Locate and Expose Manhole, As Required (Bid Item #70)	(1)	EA	\$1.00	N/A	N/A	N/A	N/A	N/A
McClain Drain									
A-53	Permit Allowance (Bid Item #75)	(200)	DLR	\$1.00	N/A	N/A	N/A	N/A	N/A
A-54	Clean and Televis, PACP Reporting, 33" Combined Sewer (Bid Item #76)	8	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-55	Clean and Televis, PACP Reporting, 36" Combined Sewer (Bid Item #77)	2	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-56	Clean and Televis, PACP Reporting, 54" Combined Sewer (Bid Item #78)	(6)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-57	Clean and Televis, PACP Reporting, 60" Combined Sewer (Bid Item #79)	5	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-58	Clean and Televis, PACP Reporting, 66" Combined Sewer (Bid Item #80)	7	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-59	Clean and Televis, PACP Reporting, 72" Combined Sewer (Bid Item #81)	7	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-60	Clean and Televis, PACP Reporting, 78" Combined Sewer (Bid Item #82)	(20)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-61	Locate and Expose Manhole, As Required (Bid Item #83)	(1)	EA	\$1.00	N/A	N/A	N/A	N/A	N/A
Shaberman Drain									
A-62	Permit Allowance (Bid Item #88)	(200)	DLR	\$1.00	N/A	N/A	N/A	N/A	N/A
A-63	Clean and Televis, PACP Reporting, 12" Combined Sewer (Bid Item #89)	(59)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-64	Clean and Televis, PACP Reporting, 90" Combined Sewer (Bid Item #90)	15	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-65	Locate and Expose Manhole, As Required (Bid Item #91)	(1)	EA	\$1.00	N/A	N/A	N/A	N/A	N/A
Schubiner Drain									
A-66	Permit Allowance (Bid Item #96)	(200)	DLR	\$1.00	N/A	N/A	N/A	N/A	N/A
A-67	Clean and Televis, PACP Reporting, 10" Combined Sewer (Bid Item #97)	(20)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-68	Clean and Televis, PACP Reporting, 12" Combined Sewer (Bid Item #98)	(44)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-69	Clean and Televis, PACP Reporting, 15" Combined Sewer (Bid Item #99)	18	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-70	Clean and Televis, PACP Reporting, 18" Combined Sewer (Bid Item #100)	11	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-71	Clean and Televis, PACP Reporting, 24" Combined Sewer (Bid Item #101)	6	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-72	Clean and Televis, PACP Reporting, 30" Combined Sewer (Bid Item #102)	7	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-73	Clean and Televis, PACP Reporting, 36" Combined Sewer (Bid Item #103)	(1)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-74	Clean and Televis, PACP Reporting, 42" Combined Sewer (Bid Item #104)	23	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-75	Clean and Televis, PACP Reporting, 54" Combined Sewer (Bid Item #105)	(2)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-76	Clean and Televis, PACP Reporting, 66" Combined Sewer (Bid Item #106)	1	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-77	Clean and Televis, PACP Reporting, 72" Combined Sewer (Bid Item #107)	42	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-78	Clean and Televis, PACP Reporting, 84" Combined Sewer (Bid Item #108)	(1)	LFT	\$4.15	N/A	N/A	N/A	N/A	N/A
A-79	Locate and Expose Manhole, As Required (Bid Item #109)	(1)	EA	\$1.00	N/A	N/A	N/A	N/A	N/A

Stored Material:

						0.0	0.0	\$0.00	\$0.00
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Deductions:

						0.0	0.0	\$0.00	\$0.00
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**Jim Nash, Oakland County Water Resources Commissioner
 GWK Drain Drainage District
 For Construction of the GWK Parking Lot and Green Infrastructure - Phase I
 Madison Heights
 Oakland County, Michigan**

Construction Estimate No. 5

November 8, 2024 to December 9, 2024

Department No.: 6010101
 Fund No.: 58520
 Project No.: 13484
 Purchase Order No. : PO00058359

Account No.: 730373
 Program No.: 149667
 Activity: STD
 Vendor No. : 22413
 Contract No. : 10860
 Date of Contract: 4/17/2024
 Completion Date: 4/16/2026

Contractor:
 TSP Services, Inc.
 25000 Capitol
 Redford, MI 48239

Original Contract Amount:		\$395,392.00
Previous Change Order Numbers (CO.1, CO.2):		\$6,817.70
Change Orders This Estimate :		\$0.00
Total Net Change Orders:		\$6,817.70
Adjusted Contract Amount:		\$402,209.70 ✓
<hr/>		
Subtotal To Date: (Sheet 2 of 2 Column 7)		\$387,209.70
Less Deductions to Date: (Sheet 2 of 2 Column 7)		\$0.00
Gross Estimate: (Work in Place)	96.27%	\$387,209.70
Less Amount Reserved: (2.5% of Adjusted Contract Amount, Substantial Completion)		\$10,055.24 ✓
Total Amount Allowed To Date:		\$377,154.46
Less Previous Estimates:		\$367,099.21
Net Payment Request To Be Paid To Contractor:		\$0.00
Reserve Payment to Contractor		\$10,055.25
Balance of Contract To Date	✓ \$15,000.00	Accounting Auditor: <i>BCR</i> 12/10/2024
Less Previous Transfers To Reserve:		\$20,110.49 ✓
Amount of Current Transfer:		(\$10,055.25)

Prepared by: Lesli Maes
 Lesli Maes, P.E. - Project Engineer

Date: 12/9/2024

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

Date: 12/9/24

Approved by: Evangelos Bantios
 Evans Bantios, P.E. - Chief Engineer

Date: 12-10-2024

Approved by Board on: _____

**Jim Nash, Oakland County Water Resources Commissioner
 GWK Drain Drainage District
 For Construction of the GWK Parking Lot and Green Infrastructure - Phase I
 Madison Heights
 Oakland County, Michigan**

Construction Estimate No. 4		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
1	Permit Allowance	2,500	Dlr	\$ 1.00	0.0	175.1	175.1	\$175.10	\$0.00
2	Mobilization (Max 5%)	1	LS	\$ 18,000.00	0.0	1.0	1.0	\$18,000.00	\$0.00
3	Dr Structure Cover, Rem and Salv	1	Ea	\$ 300.00	0.0	1.0	1.0	\$300.00	\$0.00
4	Curb and Gutter, Rem	31	Ft	\$ 65.00	0.0	31.0	31.0	\$2,015.00	\$0.00
6	Subgrade Undercutting, Type IV, Modified	50	Cyd	\$ 50.00	0.0	18.0	18.0	\$902.00	\$0.00
7	Site Grading	0.78	Ac	\$ 10,000.00	0.0	0.8	0.78	\$7,800.00	\$0.00
8	Erosion Control, Gravel Access Approach	1	Ea	\$ 2,500.00	0.0	1.0	1.0	\$2,500.00	\$0.00
9	Erosion Control, Inlet Protection, Fabric Drop	6	Ea	\$ 150.00	0.0	6.0	6.0	\$900.00	\$0.00
10	Erosion Control, Silt Fence	280	Ft	\$ 5.00	0.0	280.0	280.0	\$1,400.00	\$0.00
11	Erosion Control, Mulch Blanket	5,000	Sft	\$ 3.00	0.0	5000.0	5000.0	\$15,000.00	\$0.00
12	Bio-Retention Choker Layer	8	Cyd	\$ 500.00	0.0	8.0	8.0	\$4,000.00	\$0.00
13	Bio-Retention Reservoir Layer	9	Cyd	\$ 750.00	0.0	9.0	9.0	\$6,750.00	\$0.00
14	Aggregate Base, 6 inch	1,530	Syd	\$ 9.00	0.0	1905.0	1905.0	\$17,145.00	\$0.00
15	Road Grade Biaxial Geogrid	1,400	Syd	\$ 20.00	0.0	1400.0	1400.0	\$28,000.00	\$0.00
16	Geotextile, Stabilization, Non-Woven	1,400	Syd	\$ 5.00	0.0	1400.0	1400.0	\$7,000.00	\$0.00
17	Sewer, CI A, 6 inch, Special	95	Ft	\$ 60.00	0.0	95.0	95.0	\$5,700.00	\$0.00
18	Sewer, CI A, 12 inch, Special	20	Ft	\$ 90.00	0.0	20.0	20.0	\$1,800.00	\$0.00
19	Standpipe, 24 inch, Special	1	Ea	\$ 1,000.00	0.0	1.0	1.0	\$1,000.00	\$0.00
20	Dr Structure, Tap, 12 inch, Special	1	Ea	\$ 500.00	0.0	1.0	1.0	\$500.00	\$0.00
21	Dr Structure Cover, Type B	1	Ea	\$ 1,500.00	0.0	1.0	1.0	\$1,500.00	\$0.00
22	Dr Structure Cover, Adj, Case 1	1	Ea	\$ 500.00	0.0	1.0	1.0	\$500.00	\$0.00
23	Dr Structure, Cleaning	5	Ea	\$ 500.00	0.0	5.0	5.0	\$2,500.00	\$0.00
24	HMA Surface, Rem	750	Syd	\$ 18.00	0.0	750.0	750.0	\$13,500.00	\$0.00
27	Curb and Gutter, Conc, Det F2	260	Ft	\$ 45.00	0.0	260.0	260.0	\$11,700.00	\$0.00
28	Curb and Gutter, Conc, Det F2, Modified	285	Ft	\$ 45.00	0.0	301.0	301.0	\$13,545.00	\$0.00
29	Spillway, Conc, Modified	4	Ea	\$ 1,500.00	0.0	4.0	4.0	\$6,000.00	\$0.00
30	Fence, Protective	150	Ft	\$ 20.00	0.0	150.0	150.0	\$3,000.00	\$0.00
31	Project Sign	1	LS	\$ 750.00	0.0	1.0	1.0	\$750.00	\$0.00
32	Pavt Mrkg, Rem	162	Ft	\$ 20.00	0.0	162.0	162.0	\$3,240.00	\$0.00
33	Pavt Mrkg, Waterborne, for Rest Areas, Parks & Lots, 4 inch, Yellow	580	Ft	\$ 8.00	0.0	580.0	580.0	\$4,640.00	\$0.00
34	Pavt Mrkg, Waterborne, for Rest Areas, Parks & Lots, 4 inch, Blue	327	Ft	\$ 10.00	0.0	327.0	327.0	\$3,270.00	\$0.00
35	Pavt Mrkg, Ovlv Cold Plastic, Accessible	1	Ea	\$ 500.00	0.0	1.0	1.0	\$500.00	\$0.00
36	Swale, Plain Cobble	50	Syd	\$ 50.00	0.0	50.0	50.0	\$2,500.00	\$0.00
37	Perennial Plantings	114	Ea	\$ 42.00	0.0	114.0	114.0	\$4,788.00	\$0.00
38	Plug Plantings	2,192	Ea	\$ 7.50	0.0	2192.0	2192.0	\$16,440.00	\$0.00
39	Shrub Plantings	42	Ea	\$ 102.00	0.0	42.0	42.0	\$4,284.00	\$0.00
40	Acer ginnala, 5 foot B&B	2	Ea	\$ 840.00	0.0	2.0	2.0	\$1,680.00	\$0.00
41	Acer campestre, 1 inch to 1-1/2 inch B&B	2	Ea	\$ 840.00	0.0	2.0	2.0	\$1,680.00	\$0.00
42	Celtis occidentalis, 1 inch to 1-1/2 inch B&B	2	Ea	\$ 390.00	0.0	2.0	2.0	\$780.00	\$0.00
43	Plantanus x acerifolia, 1 inch to 1-1/2 inch B&B	4	Ea	\$ 720.00	0.0	4.0	4.0	\$2,880.00	\$0.00
44	Quercus macrocarpa, 1 inch to 1-1/2 inch B&B	3	Ea	\$ 390.00	0.0	3.0	3.0	\$1,170.00	\$0.00
45	Tilia cordata, 1 inch to 1-1/2 inch B&B	5	Ea	\$ 840.00	0.0	5.0	5.0	\$4,200.00	\$0.00
46	Hardwood Mulch (Bio-Retention Area and Trees)	30	Cyd	\$ 95.00	0.0	30.0	30.0	\$2,850.00	\$0.00
47	Bio-Retention Soil Mix	575	Syd	\$ 40.00	0.0	575.0	575.0	\$23,000.00	\$0.00
48	Seeding, Erosion Control Overseeding Mixture	17.5	Lb	\$ 6.00	0.0	17.5	17.5	\$105.00	\$0.00
49	Site Restoration	1	LS	\$ 12,000.00	0.0	1.0	1.0	\$12,000.00	\$0.00
50	One-Year Vegetation Maintenance and Guarantee	1	LS	\$ 15,000.00	0.0	0.0	0.0	\$0.00	\$0.00
52	Sewer, Cleanout, 6 inch, Special	1	Ea	\$ 1,250.00	0.0	1.0	1.0	\$1,250.00	\$0.00
53	Excavation, Earth	975	Cyd	\$ 15.00	0.0	1200.0	1200.0	\$18,000.00	\$0.00
54	Conc Pavt, Nonreinf, 7 inch	1,400	Syd	\$ 72.00	0.0	1400.0	1400.0	\$100,800.00	\$0.00
55						0.0	0.0	\$0.00	\$0.00
56						0.0	0.0	\$0.00	\$0.00
57						0.0	0.0	\$0.00	\$0.00
58						0.0	0.0	\$0.00	\$0.00
59						0.0	0.0	\$0.00	\$0.00
60						0.0	0.0	\$0.00	\$0.00
61						0.0	0.0	\$0.00	\$0.00
62						0.0	0.0	\$0.00	\$0.00
63						0.0	0.0	\$0.00	\$0.00
64						0.0	0.0	\$0.00	\$0.00
65						0.0	0.0	\$0.00	\$0.00
66						0.0	0.0	\$0.00	\$0.00
67						0.0	0.0	\$0.00	\$0.00

Change Orders:

1	Edge Drain Installation and Tie In	1.0	Ea	\$ 1,970.60	0.0	1.0	1.0	\$1,970.60	\$0.00
2	Tree Relocations and Balancing Line Items	1.0	Ea	\$ 1,300.00	0.0	1.0	1.0	\$1,300.00	\$0.00

Stored Material:

						0.0	0.0	\$0.00	\$0.00

Deductions:

						0.0	0.0	\$0.00	\$0.00

Total Amount to Date	\$383,939.10
Total Amount This Estimate	\$0.00
Change Orders to Date	\$3,270.60
Change Orders This Estimate	\$0.00
Stored Materials to Date	\$0.00
Stored Materials This Estimate	\$0.00
Subtotal to Date	\$387,209.70
Subtotal This Estimate	\$0.00
Deductions to Date	\$0.00
Deductions This Estimate	\$0.00
Payment This Estimate	\$0.00
Less Transfer to Reserve	-\$10,055.25
Net Payment	\$10,055.25

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

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

DATE: December 17, 2024

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

<u>Payable To</u>	<u>Ref No.</u>	<u>For</u>	<u>Amount</u>
Dickinson Wright PLLC	TBP	Invoice # 1976988 - Legal Services - 10/31/24	8,208.50
		Subtotal	\$ 8,208.50
Drummond Carpenter	TBP	Invoice #5179 - Project 1-7413	224.00
Drummond Carpenter	TBP	Invoice #5127 - Project 1-7413	672.00
		Project # 1-7413 Total	\$ 896.00
Michigan Lawn Maintenance Inc	TBP	Invoice # 110018 - Project 1-3484	11,199.73
		Project # 1-3484 Total	\$ 11,199.73
System Specialties	TBP	Invoice # 63305 - Project 1-7027	11,294.00
		Project # 1-7027 Total	\$ 11,294.00
ICS Integration Services LLC	TBP	Invoice # 3128 - Materials and Supplies - Project 1-7797	30,432.77
		Project # 1-7797 Total	\$ 30,432.77
Tetra Tech, Inc.	TBP	Invoice # 52345725 - Contracted Services - Proj 1-7541	\$ 4,021.03
		Project 1-7541	\$ 4,021.03
		Grand Total	\$ 66,052.03

6. Evergreen-Farmington Sanitary Drain

AGENDA

DRAINAGE BOARD FOR THE EVERGREEN-FARMINGTON SANITARY DRAIN

December 17, 2024

1. Call meeting to order
2. Approve minutes of meeting of November 26, 2024
3. Public Comments
4. Present Memorandum from Philip Kerby, P.E., Operations Engineer, dated December 17, 2024, requesting the Board authorize an increase to the Quarton Lake rehabilitation project budget by \$240,060 and award the construction to DVM Utilities, Inc. in the amount of \$200,060
5. Present Construction Estimate No. 33 for Walsh Construction Company II, LLC for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$507,665.44
6. Present Construction Estimate No. 3 for Lawrence M. Clark, Inc. for Construction of the I-696 Pump Station Rehabilitation in the amount of \$117,722.90 with a transfer to the Oakland County Treasurer in the amount of \$13,080.32
7. Present Construction Estimate No. 1 for SAK Construction for Design and Construction of the Southfield Sewer Lining Project in the amount of \$57,699.50 with a transfer to the Oakland County Treasurer in the amount of \$6,411.06
8. Present request for Board approval of payment of invoices from the Evergreen Farmington Sanitary Drain from the Maintenance Fund in the amount of \$16,495.62
9. Present request for Board approval of payment of invoices from the Evergreen Farmington Sanitary Drain from the Construction Fund in the amount of \$6,325.04
10. Other business
11. Approve pro rata payment to Drainage Board members
12. Adjourn

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

November 26, 2024

At a meeting of the Drainage Board for the Evergreen-Farmington Sanitary Drain Consolidation Project held in Waterford, Michigan, on the 26th day of November 2024.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

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

David Woodward, Chairperson of the Oakland County Board of Commissioners

ABSENT: None.

The meeting was called to order by the Chairperson.

The Chairperson presented the minutes of the meeting of this Board held on October 22, 2024. Upon motion by Markham, seconded by Woodward and unanimously adopted, the minutes were approved as presented.

The Chairperson announced that this was the time and place set to hear any objections to the apportionment of the cost, if any, of the Evergreen-Farmington Sanitary Drain Consolidation Project as tentatively adopted by this Drainage Board on October 22, 2024 and as set forth in the notice of this hearing. The Chairperson presented affidavits of the publication and mailing of the notice of this hearing.

The Chairperson inquired if any public corporation to be assessed or any taxpayer thereof desired to object to the tentative apportionment of the cost, if any, of the Evergreen-Farmington Sanitary Drain Consolidation Project as set forth in the resolution of this Board adopted October 22, 2024 and in the notice of this hearing. There were the following objections or questions: None.

The Chairperson declared the hearing closed.

The following resolution was offered by Markham and seconded by Woodward:

WHEREAS, the Drainage Board for the Evergreen-Farmington Sanitary Drain Consolidation Project, on the 22nd day of October, tentatively established an apportionment of the cost, if any, of the Evergreen-Farmington Sanitary Drain Consolidation Project, to be borne by the several public corporations, as follows:

City of Auburn Hills	0.46%
Village of Beverly Hills	5.75%
Village of Bingham Farms	0.69%
City of Birmingham	0.11%
Charter Township of Bloomfield	9.54%
City of Bloomfield Hills	1.44%
City of Farmington	0.34%
City of Farmington Hills	28.29%
Village of Franklin	0.21%
City of Keego Harbor	0.32%
City of Lathrup Village	3.06%
City of Orchard Lake Village	0.37%
City of Southfield	38.17%
City of Troy	3.15%
Charter Township of West Bloomfield	8.10%

; and

WHEREAS, after due notice the Drainage Board met on the 26th day of November, 2024 to hear any objections to the apportionment; and

WHEREAS, the apportionment of the cost, if any, of the Evergreen-Farmington Sanitary Drain Consolidation Project has been made by taking into consideration the benefits to accrue to each of the public corporations to be assessed and by taking into consideration the extent to which each such public corporation contributes to the conditions which made the Evergreen-Farmington Sanitary Drain Consolidation Project necessary;

WHEREAS, this Drainage Board has given due and full consideration to all objections offered thereto; and

WHEREAS, the Evergreen-Farmington Sanitary Drain Consolidation Project is necessary for the public health.

NOW, THEREFORE, BE IT RESOLVED BY THE DRAINAGE BOARD FOR THE EVERGREEN-FARMINGTON SANITARY DRAIN CONSOLIDATION PROJECT:

1. That the apportionment of cost, if any, as above set forth be and the same is fixed and confirmed.
2. That the Chairperson of this Drainage Board is authorized and directed to issue on behalf of the Board its Final Order of Apportionment setting forth the apportionment against the several public corporations as herein fixed and confirmed.
3. That all former resolutions and orders of this Board, insofar as the same may be in conflict with the terms of this resolution, are rescinded.

ADOPTED: Yeas - 3
Nays - 0

The Chairperson proceeded to sign the Final Order of Apportionment as directed in the foregoing resolution, and he then presented the order to the Board. The order was dated November 26, 2024.

It was moved by Markham and seconded by Woodward that the Final Order of Apportionment In Re Evergreen-Farmington Sanitary Drain Consolidation Project, dated November 26, 2024, be approved and filed with the Chairperson.

ADOPTED: Yeas - 3
Nays - 0

A memorandum from Evans Bantios, P.E., Project Engineer, dated November 26, 2024, requesting the Board approve the Engineering Services agreement with FK Engineering for the final design of the Walnut Lake No. 1 Pump Station Corrective Action Plan project by a not-to-exceed amount of \$444,000 was presented. It was moved by Markham, supported by Woodward, to approve Engineering Services agreement with FK Engineering for the final design of the Walnut Lake No. 1 Pump Station Corrective Action Plan project by a not-to-exceed amount of \$444,000 as presented.

ADOPTED: Yeas - 3
Nays - 0

A memorandum from Evans Bantios, P.E., Project Engineer, dated November 26, 2024, requesting the Board approve the budget increase to HRC for the final design of the Walnut Lake No. 1 Corrective Action Plan project to a not-to-exceed amount of \$234,160 was presented. It was moved by Markham, supported by Woodward, to approve the budget increase to HRC for the final design of the Walnut Lake No. 1 Corrective Action Plan project to a not-to-exceed amount of \$234,160 as presented.

ADOPTED: Yeas - 3
Nays - 0

A memorandum from Scott Schultz, E.I.T., Project Engineer, dated November 26, 2024, requesting the Board award the Walnut #2 Pump Station Rehabilitation project to Lawrence M. Clarke and authorize the EFSDDD Chairperson to sign the Agreement in the amount of \$1,858,100.00, approve the Engineering Work Order for DLZ's Construction Engineering Services, materials testing services, and additional Design Engineering fees for the Walnut #2 Pump Station Rehabilitation project totaling \$129,210.37, and approve a project budget increase of \$598,000 to an overall not-to-exceed amount of \$2,698,000 was presented. It was moved by Markham, supported by Woodward, to award the Walnut #2 Pump Station Rehabilitation project to Lawrence M. Clarke and authorize the EFSDDD Chairperson to sign the Agreement in the amount of \$1,858,100.00, approve the Engineering Work Order for DLZ's Construction Engineering Services, materials testing services, and additional Design Engineering fees for the Walnut #2 Pump Station Rehabilitation project totaling \$129,210.37, and approve a project budget increase of \$598,000 to an overall not-to-exceed amount of \$2,698,000 as presented.

ADOPTED: Yeas - 3
Nays - 0

Construction Estimate No. 32 for Walsh Construction for the 8 Mile Road Corrective Action Plan Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$610,089.45 was presented. It was moved by Markham, supported by Woodward, to approve Construction Estimate No. 32 for Walsh Construction for the 8 Mile Road Corrective Action Plan Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$610,089.45 as presented.

ADOPTED: Yeas - 3
 Nays - 0

A request for Board approval of payment of invoices from the Evergreen Farmington Sanitary Drain from the Maintenance Fund in the amount of \$235,604.35 (as attached) was presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices from the Evergreen Farmington Sanitary Drain from the Maintenance Fund in the amount of \$235,604.35 as presented.

ADOPTED: Yeas - 3
 Nays - 0

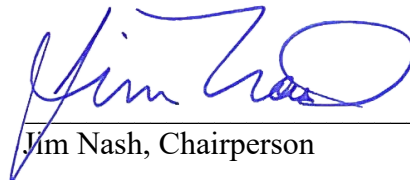
A request for Board approval of payment of invoices from the Evergreen Farmington Sanitary Drain from the Construction Fund in the amount of \$135,069.88(as attached) was presented. It was moved by Markham, supported by Woodward to approve the payment of invoices from the Evergreen Farmington Sanitary Drain from the Construction Fund in the amount of \$135,069.88 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

Upon motion by Markham, seconded by Woodward and unanimously adopted, the meeting was adjourned.



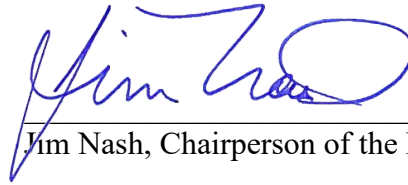
Jim Nash, Chairperson

November 26, 2024

STATE OF MICHIGAN)
)
COUNTY OF OAKLAND)

I hereby certify that the foregoing is a true and complete copy of the minutes of a meeting of the Drainage Board for the Evergreen-Farmington Sanitary Drain Consolidation Project, Oakland County, Michigan, held on November 26, 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 notice of the meeting was given in accordance with the Michigan Drain Code and the Open Meetings Act.



Jim Nash, Chairperson of the Drainage Board

**OAKLAND COUNTY
WATER RESOURCES COMMISSIONER**
MEMORANDUM

TO: Jim Nash, Chairperson,
Evergreen-Farmington Sanitary Drain Drainage District

FROM: Philip Kerby P.E., Operations Engineer

SUBJECT: Quarton Lake Sanitary Sewer Rehabilitation

DATE: December 17, 2024

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

At its April 23, 2024 meeting, this Board awarded a contract to Hubbell, Roth, & Clark, Inc. (HRC) for the design of the rehabilitation work. HRC has completed the design, and the project has been competitively bid. The project construction phase will include cured-in-place lining of a 100-foot segment of the sewer and grouting of 106 joints. Included with this memo is the bid summary. The low bidder was DVM Utilities, Inc. (DVM). DVM provided two lining options for this project, the EnviroCure liner being the low bid amount. It is recommended that the construction phase of the project be awarded to DVM in the amount of \$200,060.

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

Contracted Services:	\$200,060
WRC Administration:	\$ 20,000
Contingency:	<u>\$ 20,000</u>
TOTAL:	\$240,060

RECOMMENDED ACTION: Authorize an increase to the Quarton Lake rehabilitation project budget by \$240,060 and award the construction to DVM Utilities, Inc. in the amount of \$200,060.



Heavy Agitation



Exposed Reinforcement

BID SUMMARY

Evergreen-Farmington Sanitary Drain - Quarton Lake Sewer Rehabilitation Project

DVM Utilities (Opt. 1)

DVM (Opt. 2 EnviroCure)

Pipeline MGMT

Division I

Item No.	Description	Quantity	Unit	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1	Mobilization (20% Max)	1	LS	\$ 18,500.00	\$ 18,500.00	\$ 18,500.00	\$ 18,500.00	\$ 12,500.00	\$ 12,500.00
2	Color Audio-video Recording of Construction Areas	1	LS	\$ 4,500.00	\$ 4,500.00	\$ 4,500.00	\$ 4,500.00	\$ 5,000.00	\$ 5,000.00
3	Temporary Bypass Pumping, Portable 6-8 Inch Pump Setup & Breakdown	1	LS	\$ 16,000.00	\$ 16,000.00	\$ 16,000.00	\$ 16,000.00	\$ 15,000.00	\$ 15,000.00
4	Temporary Bypass Pumping, Portable 6-8 Inch Pump Operation	1	LS	\$ 11,000.00	\$ 11,000.00	\$ 11,000.00	\$ 11,000.00	\$ 15,000.00	\$ 15,000.00
5	Temporary Heavy Equipment Mats	1	LS	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ 13,000.00	\$ 17,500.00	\$ 17,500.00
6	Temporary Manhole Upper Section Reconstruct	2	EA	\$ 2,150.00	\$ 4,300.00	\$ 2,150.00	\$ 4,300.00	\$ 10,500.00	\$ 21,000.00
7	Clean and Televiser with PACP Reporting, 27-Inch	100	LFT	\$ 30.00	\$ 3,000.00	\$ 30.00	\$ 3,000.00	\$ 45.00	\$ 4,500.00
8	Pre-Lining, Test Main Line Joint, 27-Inch Diameter	8	EA	\$ 450.00	\$ 3,600.00	\$ 450.00	\$ 3,600.00	\$ 850.00	\$ 6,800.00
9	Pre-Lining, Grout Main Line Joint or Defect, 27-Inch Diameter	3	EA	\$ 1,200.00	\$ 3,600.00	\$ 1,200.00	\$ 3,600.00	\$ 850.00	\$ 2,550.00
10	Sewer Lining, CIPP, Thermosetting VOC/HAP Free Resin, 27-Inch Diameter	100	LFT	\$ 695.00	\$ 69,500.00	\$ 555.00	\$ 55,500.00	\$ 654.00	\$ 65,400.00
11	Post Rehabilitation PACP reporting, 27-Inch	100	LFT	\$ 3.00	\$ 300.00	\$ 3.00	\$ 300.00	\$ 10.00	\$ 1,000.00
12	Traffic Control	1	LS	\$ 6,500.00	\$ 6,500.00	\$ 6,500.00	\$ 6,500.00	\$ 5,000.00	\$ 5,000.00
13	Restoration	1	LS	\$ 7,000.00	\$ 7,000.00	\$ 7,000.00	\$ 7,000.00	\$ 10,000.00	\$ 10,000.00
Division I Subtotal					\$ 160,800.00		\$ 146,800.00		\$ 181,250.00
Division II									
14	Test Main Line Joint, 27-Inch Diameter	106	EA	\$ 335.00	\$ 35,510.00	\$ 335.00	\$ 35,510.00	\$ 325.00	\$ 34,450.00
15	Grout Main Line Joint or Defect, 27-Inch Diameter	24	EA	\$ 375.00	\$ 9,000.00	\$ 375.00	\$ 9,000.00	\$ 325.00	\$ 7,800.00
16	Chemical Grout Material	350	GAL	\$ 25.00	\$ 8,750.00	\$ 25.00	\$ 8,750.00	\$ 27.00	\$ 9,450.00
Division II Subtotal					\$ 53,260.00		\$ 53,260.00		\$ 51,700.00
Contract Total					\$ 214,060.00		\$ 200,060.00		\$ 232,950.00

**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. 33

November 1, 2024 to Nov 30, 2024

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
<u>Adjusted Contract Amount:</u>	<u>\$50,512,444.14</u>
Subtotal To Date: (Sheet 2 of 3 Column 7)	\$28,548,927.12
Less Deductions to Date: (Sheet 2 of 3 Column 7)	\$0.00
Gross Estimate: (Work in Place) 56.52%	\$28,548,927.12
Less Amount Reserved: (5% of Adjusted Contract Amount)	\$2,525,622.21
Total Amount Allowed To Date:	\$26,023,304.91
Less Previous Estimates:	\$25,515,639.47
Net Payment Request To Be Paid To Contractor:	\$507,665.44
Reserve Payment to Contractor	\$0.00
Balance of Contract To Date ✓	\$21,963,517.02
	Accounting Auditor: <i>BGR</i> 12/10/2024
Less Previous Transfers To Reserve:	\$2,525,622.21
<u>Amount of Current Transfer:</u>	<u>\$0.00</u>

Prepared by: *Charles J. Gilbert* for _____
 Lawrence Gilbert, P.E. - NTH Consultants

Date: 2024 12 05

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

Date: 12/9/2024

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

Date: 12-10-2024

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

Date: 12/11/2024

Approved by Board on: _____

**JIM NASH
 OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

**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. 33		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
1	OCO #1 Elevator (Includes Insurance & OH&P)	1.00	LS	\$285,469.59					
1A	Material down payment			\$66,678.25	0.00	1.00	1.00	\$66,678.25	\$0.00
1B	bulk material fabrication and received			\$66,678.25	0.00	1.00	1.00	\$66,678.25	\$0.00
1C	install progress schedule			\$133,356.50	0.00	1.00	1.00	\$133,356.50	\$0.00
1D	Insurance and OH&P			\$18,756.59	0.00	1.00	1.00	\$18,756.59	\$0.00
2	OCO#2 Generator (Includes Insurance & OH&P)	1.00	LS	\$1,291,250.04					
2A	Approved submittals generator and docking station			\$181,516.80	0.00	1.00	1.00	\$181,516.80	\$0.00
2B	Construction of generator is done less enclosure/factory testing done & submittal with			\$242,022.40	0.00	1.00	1.00	\$242,022.40	\$0.00
2C	Delivery of docking station to job site (less \$0.62 final adj.)			\$181,516.18	0.00	1.00	1.00	\$181,516.18	\$0.00
2D	Startup and testing of docking station			\$60,505.60	0.00	1.00	1.00	\$60,505.60	\$0.00
2E	Startup generator/arrive job site(deducted \$2500, add to Rotor 3/6-A)			\$421,039.20	0.00	1.00	1.00	\$421,039.20	\$0.00
2F	Startup & testing of generator			\$84,707.84	0.00	1.00	1.00	\$84,707.84	\$0.00
2G	Final O&M, start up, training (less \$1,202.84 final adjustment)			\$35,100.52	0.00	1.00	1.00	\$35,100.52	\$0.00
2H	Insurance & OH&P(less \$175 transf Rotor 3/6-38, less \$84.63 final adj)			\$84,841.50	0.00	1.00	1.00	\$84,841.50	\$0.00
3	OCO#3 Electrical Equipment (Includes Insurance & OH&P) - \$1,823,797.41	1.00	LS	see item 3/6					
3/6	Combined OCO # 3 and # 6 - Electrical Equipment and Installation - Rotor Elec.	1.00	LS	\$4,770,661.15					
3/6-01	Coordination Study			\$22,000.00	0.00	0.98	0.98	\$21,500.00	\$0.00
3/6-02	Approved Shop Drawings for all Equipment			\$377,523.00	0.00	1.00	1.00	\$377,523.00	\$0.00
3/6-03	All Equipment Released for Fabrication			\$399,523.00	0.00	1.00	1.00	\$399,523.00	\$0.00
3/6-04	Pad Mount Transformer Delivery			\$243,000.00	0.00	0.00	0.00	\$0.00	\$0.00
3/6-05	Primary Switch Delivery			\$70,000.00	0.00	1.00	1.00	\$70,000.00	\$0.00
3/6-06	Main Switch Board Delivery			\$456,980.00	0.00	1.00	1.00	\$456,980.00	\$0.00
3/6-07	New Pump 1 VFD Delivery			\$60,000.00	0.00	1.00	1.00	\$60,000.00	\$0.00
3/6-08	New Pump 2 VFD Delivery			\$60,000.00	0.00	1.00	1.00	\$60,000.00	\$0.00
3/6-09	New Pump 3 VFD Delivery			\$60,000.00	0.00	1.00	1.00	\$60,000.00	\$0.00
3/6-10	New Pump 4 VFD Delivery			\$60,000.00	0.00	1.00	1.00	\$60,000.00	\$0.00
3/6-11	Motor Control Center Delivery			\$88,709.00	0.00	0.21	0.21	\$18,709.00	\$0.00
3/6-12	Startup & Commissioning			\$61,881.00	0.00	0.24	0.24	\$15,000.00	\$0.00
3/6-13	Training			\$12,000.00	0.00	0.67	0.67	\$8,000.00	\$0.00
3/6-14	O & M Manuals & Record Drawings			\$26,000.00	0.00	0.50	0.50	\$13,000.00	\$0.00
3/6-15	Mobilize			\$219,000.00	0.00	1.00	1.00	\$219,000.00	\$0.00
3/6-16	Submittals Other Than Madison			\$58,000.00	0.00	1.00	1.00	\$58,000.00	\$0.00
3/6-17	Outside Distribution Equipment Condit/Wiring Install			\$148,000.00	0.00	0.51	0.51	\$74,800.00	\$0.00
3/6-18	Inside Elect Equip Condit/Wiring Install PCI-970031 - \$11,691.00 Credit			\$152,309.00	0.00	0.93	0.93	\$142,309.00	\$0.00
3/6-19	New Pump 1 Conduit/Wiring			\$195,000.00	0.00	0.31	0.31	\$60,000.00	\$0.00
3/6-20	New Pump 2 Conduit/Wiring			\$195,000.00	0.00	0.97	0.97	\$190,000.00	\$0.00
3/6-21	New Pump 3 Conduit/Wiring			\$195,000.00	0.05	0.95	1.00	\$195,000.00	\$10,000.00
3/6-22	New Pump 4 Conduit/Wiring			\$195,000.00	0.00	0.79	0.79	\$155,000.00	\$0.00
3/6-23	Valve Operators Conduit/Wiring			\$35,000.00	0.00	0.57	0.57	\$20,000.00	\$0.00
3/6-24	Motor Control Center Conduit/Wiring PCI-970040 \$7,855.00 credit			\$188,145.00	0.00	0.97	0.97	\$183,145.00	\$0.00
3/6-25	Lighting Conduit/Wiring			\$71,000.00	0.00	0.86	0.86	\$61,000.00	\$0.00
3/6-26	New Vault Conduit/Wiring			\$15,000.00	0.00	0.67	0.67	\$10,000.00	\$0.00
3/6-27	Cathodic Protection			\$79,000.00	0.00	0.00	0.00	\$0.00	\$0.00
3/6-28	Sequence of Construction / Temporary Power			\$37,000.00	0.00	1.00	1.00	\$37,000.00	\$0.00
3/6-29	SSO Chamber Conduit/Wiring			\$50,000.00	0.00	0.00	0.00	\$0.00	\$0.00
3/6-30	Inverter Delivery			\$22,000.00	1.00	0.00	1.00	\$22,000.00	\$22,000.00
3/6-31	Generator Install Conduit/Wiring			\$524,000.00	0.00	1.00	1.00	\$524,000.00	\$0.00
3/6-32	Generator Mechanical Connections			\$18,000.00	0.00	1.00	1.00	\$18,000.00	\$0.00
3/6-33	Gas Detection System Delivery PCI-970022B \$41,898.41 credit			\$2,101.59	0.00	1.00	1.00	\$2,101.59	\$0.00
3/6-34	Instrumentation & Control Conduit/Wiring			\$34,500.00	0.00	0.71	0.71	\$24,500.00	\$0.00

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. 33		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
3/6-35	Demobilize			\$20,000.00	0.00	0.00	0.00	\$0.00	\$0.00
3/6-A	Walsh internal PCI 98-009 (add transfer \$2500 from Cummins 2E)			\$2,500.00	0.00	1.00	1.00	\$2,500.00	\$0.00
3/6-36	Insurance and OH&P (add transfer \$175 from Cummins 2H)			\$317,489.56	0.01	0.79	0.80	\$253,301.34	\$2,240.00
4	OCO#4 Pumps (Includes Insurance & OH&P)	1.00	LS	\$2,311,820.95					
4A	Shop Drawing Approval			\$324,000.00	0.00	1.00	1.00	\$324,000.00	\$0.00
4B	Delivery of Equipment			\$1,620,000.00	0.00	1.00	1.00	\$1,619,520.64	\$0.00
4C	Startup, Testing, Final O&M, Training			\$215,924.27	0.00	0.31	0.31	\$65,924.27	\$0.00
4D	Insurance and OH&P			\$151,896.68	0.00	0.93	0.93	\$140,754.29	\$0.00
5	OCO#5 Valves & Actuators (Includes Insurance & OH&P)	1.00	LS	\$1,044,145.02					
5A	Shop Drawing Approval - Kennedy			\$122,000.00	0.00	1.00	1.00	\$122,000.00	\$0.00
5B	Delivery of Equipment - Kennedy			\$609,000.00	0.00	1.00	1.00	\$609,000.00	\$0.00
5C	Startup, Testing, Final O&M, Training - Kennedy			\$80,225.00	0.00	0.25	0.25	\$20,000.00	\$0.00
5D	Shop Drawing Approval - System Specialties			\$24,650.00	0.00	1.00	1.00	\$24,650.00	\$0.00
5E	Delivery of Equipment - System Specialties			\$123,200.00	0.00	1.00	1.00	\$123,200.00	\$0.00
5F	Startup, Testing, Final O&M, Training - System Specialties			\$16,465.16	0.30	0.70	1.00	\$16,465.16	\$5,000.00
5G	Insurance and OH&P			\$68,604.86	0.01	0.93	0.93	\$63,857.28	\$350.00
6	OCO#6 Electrical & Remaining Equip (Includes Ins. & OH&P) - \$3,00,5633.15	1.00	LS	see item 3/6					
7	OCO#7 Construction GMP	1.00	LS	\$40,410,921.00					
8	Cash Allowance - DTE Electrical & Lighting Protection Required by DTE at	1.00	LS	\$60,000.00	0.00	0.64	0.64	\$38,417.72	\$0.00
9	Cash Allowance - Consumers Energy Gas	1.00	LS	\$15,000.00	0.00	0.22	0.22	\$3,239.00	\$0.00
10	Cash Allowance - Comcast Internet	1.00	LS	\$5,000.00	0.00	0.00	0.00	\$0.00	\$0.00
11	Cash Allowance - Purchase & Install Internet Booster	1.00	LS	\$15,000.00	0.00	1.00	1.00	\$15,000.00	\$0.00
12	Cash Allowance - AT&T Phone System Relocate	1.00	LS	\$15,000.00	0.00	0.00	0.00	\$0.00	\$0.00
13	Cash Allowance - Security Camera Relocate	1.00	LS	\$15,000.00	0.00	1.00	1.00	\$15,000.00	\$0.00
14	Cash Allowance - Unforeseen Utility Relocation	1.00	LS	\$100,000.00	0.00	0.03	0.03	\$2,777.84	\$0.00
15	Cash Allowance per DWGs - Consumers Energy 6" Gas Relocation	1.00	LS	\$100,000.00	0.00	0.00	0.00	\$0.00	\$0.00
16	Cash Allowance per DWGs - Phone System Install	1.00	LS	\$25,000.00	0.00	1.00	1.00	\$25,000.00	\$0.00
17	Cash Allowance per DWGs - Internet System Install	1.00	LS	\$25,000.00	0.12	0.34	0.46	\$11,588.94	\$3,000.09
18	Cash Allowance per DWGs - Boot on Power Lines & Raising AT&T Lines	1.00	LS	\$40,000.00	0.00	0.14	0.14	\$5,546.01	\$0.00
19	Cash Allowance per DWGs - Concrete & Asphalt Paving Work	1.00	LS	\$1,600,000.00	0.00	0.00	0.00	\$7,866.82	\$0.00
20	Cash Allowance per DWGs - Install of Antennas & Wiring at Pump Station & SSO	1.00	LS	\$50,000.00	0.00	0.00	0.00	\$0.00	\$0.00
21	Cash Allowance - Bridge Crane (107-042 deduct \$118,219.32)	1.00	LS	\$506,780.68	0.00	0.73	0.73	\$368,278.68	\$0.00
22	Cash Allowance per DWGs - Switchgear Design Changes	1.00	LS	\$50,000.00	0.00	0.00	0.00	\$0.00	\$0.00
23	Cash Allowance per DWGs - Landscape Allowance - 2026/2027 - Bid	1.00	LS	\$480,000.00	0.00	0.00	0.00	\$0.00	\$0.00
24	Cash Allowance per Meeting - Dewatering	1.00	LS	\$180,000.00	0.08	0.05	0.14	\$24,720.24	\$15,000.00
25	Cash Allowance per Mtg - Permits (\$560,000 less \$150,000.CO 8-4)	1.00	LS	\$410,000.00	0.00	0.84	0.84	\$343,343.17	\$0.00
26	Cash Allowance per Meeting - Summer & Winter Conditions	1.00	LS	\$130,000.00	0.00	0.09	0.09	\$12,124.49	\$0.00
27	Cash Allowance per Meeting - Traffic Control	1.00	LS	\$479,800.00	0.00	0.16	0.16	\$77,369.42	\$0.00
28	Cash Allowance per Meeting - Vac Truck Services & TV Inspections	1.00	LS	\$480,000.00	0.00	0.13	0.13	\$60,614.73	\$0.00
29	Construction Staking	1.00	LS	\$94,600.00	0.00	0.19	0.19	\$17,948.00	\$0.00
30	Security	1.00	LS	\$570,300.00	0.02	0.39	0.41	\$235,600.00	\$12,400.00
31	Temporary Generators & Fuel	1.00	LS	\$155,000.00	0.00	0.84	0.84	\$130,228.29	\$0.00
32	Equipment Storage Off Site & Shipping	1.00	LS	\$40,000.00	0.00	0.17	0.17	\$6,686.41	\$0.00
33	Hydraulic Pump at Wet Well for Concrete Work	1.00	LS	\$85,000.00	0.00	0.26	0.26	\$21,941.77	\$0.00
34	Ventilation at Overflow Chamber	1.00	LS	\$40,000.00	0.00	0.54	0.54	\$21,492.31	\$0.00
35	Preconstruction & Final Photos	1.00	LS	\$10,000.00	0.00	0.50	0.50	\$5,000.00	\$0.00
36	Selective Demolition - Blue Star	1.00	LS	\$1,712,485.72					
36A	Deduct for work transferred to BNE (item 48/54A)			(\$1,984.28)	0.00	1.00	1.00	(\$1,984.28)	\$0.00
36-01	Mobilization / Phasing (x5)			\$5,000.00	0.00	0.40	0.40	\$2,000.00	\$0.00
36-02	Bond			\$19,500.00	0.00	1.00	1.00	\$19,500.00	\$0.00

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

**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. 33		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
36-03	Sheet D101 - ARCH Demo First Floor (EL 646)			\$86,000.00	0.00	0.30	0.30	\$25,800.00	\$0.00
36-04	Sheet D102 - ARCH Demo Roof (EL 660'8")			\$60,000.00	0.00	0.00	0.00	\$0.00	\$0.00
36-05	Sheet D103 - ARCH Demo P1 (EL 636, P2 EL 626, P3 EL 616)			\$30,000.00	0.00	0.50	0.50	\$15,000.00	\$0.00
36-06	Sheet D104 - ARCH Demo P4 (EL 606) P5 (EL591'9")			\$66,500.00	0.00	1.00	1.00	\$66,500.00	\$0.00
36-07	Sheet D105 - ARCH Demo Wet Well (EL 620 & 600)			\$244,000.00	0.00	1.00	1.00	\$244,000.00	\$0.00
36-08	Sheet D110 - STRUC Demo Roof (EL 660'8"), 1ST Fl (EL 646), and P1 (EL 636)			\$40,500.00	0.00	0.10	0.10	\$4,050.00	\$0.00
36-09	Sheet D111 - STRUC Demo P2 (EL 626), P3 (EL 616), P4 (EL 606) & P5 (EL 591'9")			\$400,000.00	0.00	0.75	0.75	\$300,000.00	\$0.00
36-10	Sheet D121 - PROCESS Demo 1st Fl			\$44,000.00	0.00	0.15	0.15	\$6,600.00	\$0.00
36-11	Sheet D122 - PROCESS Demo P1, P2, P3			\$450,000.00	0.00	0.50	0.50	\$225,000.00	\$0.00
36-12	Sheet D123 - PROCESS Demo P4, P5			\$85,000.00	0.00	0.50	0.50	\$42,500.00	\$0.00
36-13	Sheet D131 - PLUMBING Demo 1st Fl. P1			\$30,000.00	0.00	0.50	0.50	\$15,000.00	\$0.00
36-14	Sheet D132 - PLUMBING Demo P2, P3			\$8,500.00	0.00	0.28	0.28	\$2,420.00	\$0.00
36-15	Sheet D133 - PLUMBING Demo P4, P5			\$20,000.00	0.00	0.30	0.30	\$6,000.00	\$0.00
36-16	Sheet D134 - MECH Demo Roof			\$4,500.00	0.00	1.00	1.00	\$4,500.00	\$0.00
36-17	Sheet D135 - MECH Demo 1st Fl. P1			\$12,000.00	0.00	0.50	0.50	\$6,000.00	\$0.00
36-18	Sheet D136 - MECH Demo P2, P3			\$16,000.00	0.00	1.00	1.00	\$16,000.00	\$0.00
36-19	Sheet D137 - MECH Demo P4, P5			\$16,000.00	0.00	0.56	0.56	\$9,000.00	\$0.00
36-20	Sheet D141-D144 - ELEC Demo - 1st Fl. P1, P2, P3, P4, P5			\$30,000.00	0.00	0.17	0.17	\$5,000.00	\$0.00
36-21	Sheet D201 - ARCH Demo Evergreen SSO Chamber			\$4,000.00	0.30	0.00	0.30	\$1,200.00	\$1,200.00
36-22	Sheet D230 - MECH Demo Evergreen SSO Chamber			\$15,000.00	0.75	0.00	0.75	\$11,250.00	\$11,250.00
36-23	Sheet S100 - STRUC Demo Roof (EL 660'8")			\$11,500.00	0.00	1.00	1.00	\$11,500.00	\$0.00
36-24	Sheet S102 - STRUC Demo P1 (EL 636)			\$8,500.00	0.00	0.00	0.00	\$0.00	\$0.00
36-25	Sheet S104 - STRUC Demo P1 (EL 636)			\$3,000.00	0.00	0.00	0.00	\$0.00	\$0.00
36-26	Post Bid Adds			\$4,970.00	0.00	0.00	0.00	\$0.00	\$0.00
37	Cast In Place Concrete - Mobilization	1.00	LS	\$50,000.00	0.00	1.00	1.00	\$50,000.00	\$0.00
38	Cast In Place Concrete- Wet Well Shoring, FRP Lower Floor	1.00	LS	\$955,000.00	0.00	1.00	1.00	\$955,000.00	\$0.00
39	Cast In Place Concrete - Wet Well FRP Upper Floor	1.00	LS	\$409,000.00	0.00	1.00	1.00	\$409,000.00	\$0.00
40	Cast In Place Concrete - Yard Pipe Mud Mat & Electrical Ductbanks	1.00	LS	\$210,000.00	0.00	0.71	0.71	\$150,000.00	\$0.00
41	Cast In Place Concrete - Exterior Pads, Bollards, Temp Bulkhead, Building Foundation	1.00	LS	\$163,600.00	0.00	0.76	0.76	\$123,600.00	\$0.00
42	Cast In Place Concrete - Interior Pads, Wall Patching, Floor Infills, Pump & Misc.	1.00	LS	\$220,000.00	0.00	0.78	0.78	\$171,000.00	\$0.00
43	Cast In Place Concrete - Valve Vault	1.00	LS	\$400,000.00	0.00	0.99	0.99	\$395,000.00	\$0.00
44	Cast In Place Concrete - Overflow Chamber Gate Structure	1.00	LS	\$400,000.00	0.00	0.00	0.00	\$0.00	\$0.00
45	Cast In Place Concrete - Overflow Chamber Modify Existing Overflow Structure	1.00	LS	\$950,000.00	0.01	0.00	0.01	\$10,000.00	\$10,000.00
46	Cast In Place Concrete - Demobilization	1.00	LS	\$25,000.00	0.00	0.00	0.00	\$0.00	\$0.00
47	Hollow Core Planks Fabcon Precast (now StresCore)	1.00	LS	\$28,000.00	0.00	0.14	0.14	\$3,800.00	\$0.00
48	Masonry Work - BNE (\$133,168.00)	1.00	LS	see item 48/54					
48/54	Combined Items 48 & 54 - Masonry & Waterproofing/Joint Sealant - BNE	1.00	LS	\$184,481.28					
48/54A	Work transferred from Blue Star (item 36A)	1.00	LS	\$1,984.28	0.00	1.00	1.00	\$1,984.28	\$0.00
48/54-01	Masonry Bond	1.00	LS	\$2,100.00	0.00	1.00	1.00	\$2,100.00	\$0.00
48/54-02	Interior Masonry	1.00	LS	\$16,750.00	0.00	1.00	1.00	\$16,750.00	\$0.00
48/54-03	Elevator Shaft Masonry	1.00	LS	\$20,117.00	0.00	1.00	1.00	\$20,117.00	\$0.00
48/54-04	Exterior Infills / Tothing In	1.00	LS	\$66,450.00	0.00	1.00	1.00	\$66,450.00	\$0.00
48/54-05	Corner Exterior Wall	1.00	LS	\$27,751.00	0.00	0.00	0.00	\$0.00	\$0.00
48/54-06	Waterproofing/Joint Sealant Bond	1.00	LS	\$900.00	0.00	1.00	1.00	\$900.00	\$0.00
48/54-07	Waterproofing Blind Side	1.00	LS	\$14,100.00	0.00	1.00	1.00	\$14,100.00	\$0.00
48/54-08	Waterproofing Walls - Force Main	1.00	LS	\$5,100.00	0.00	1.00	1.00	\$5,100.00	\$0.00
48/54-09	Waterproofing SSO Chamber	1.00	LS	\$10,929.00	0.00	0.00	0.00	\$0.00	\$0.00
48/54-10	Joint Sealants - Labor	1.00	LS	\$7,200.00	0.00	0.00	0.00	\$0.00	\$0.00
48/54-11	Building Joint Sealants	1.00	LS	\$6,500.00	0.00	0.00	0.00	\$0.00	\$0.00
48/54-12	Site Concrete EJ Sealant	1.00	LS	\$4,600.00	0.00	0.00	0.00	\$0.00	\$0.00

**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. 33		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
49	Metals - Ross Steel	1.00	LS	\$1,036,000.00					
49-01	Engineering (Detailing)	1.00	LS	\$64,200.00	0.00	1.00	1.00	\$64,200.00	\$0.00
49-02	Field Measuring	1.00	LS	\$48,000.00	0.00	1.00	1.00	\$48,000.00	\$0.00
49-03	Material	1.00	LS	\$360,841.00	0.00	0.90	0.90	\$324,756.90	\$0.00
49-04	Labor	1.00	LS	\$72,000.00	0.00	0.90	0.90	\$64,800.00	\$0.00
49-05	FRP	1.00	LS	\$72,459.00	0.00	1.00	1.00	\$72,459.00	\$0.00
49-06	Erection	1.00	LS	\$233,800.00	0.00	0.77	0.77	\$180,723.00	\$0.00
49-07	Stairs, rails, ladders	1.00	LS	\$172,700.00	0.00	0.85	0.85	\$145,956.50	\$0.00
49-08	Bond	1.00	LS	\$12,000.00	0.00	1.00	1.00	\$12,000.00	\$0.00
50	Rough Carpentry - Temp & Final Doors	1.00	LS	\$55,000.00	0.00	0.05	0.05	\$3,000.00	\$0.00
51	Rough Carpentry - Temp Wall for Roof Removal	1.00	LS	\$57,000.00	0.00	0.00	0.00	\$0.00	\$0.00
52	Rough Carpentry - Scaffold Plank at Floor Openings	1.00	LS	\$21,000.00	0.00	0.95	0.95	\$20,000.00	\$0.00
53	Rough Carpentry - Floor Protection	1.00	LS	\$38,700.00	0.00	0.80	0.80	\$30,960.00	\$0.00
54	Waterproofing/Joint Sealant - BNE (\$49,329.00)	1.00	LS	see item 48/54					
55	EPDM Roofing - Royal Roofing	1.00	LS	\$396,900.00					
55-01	Roofing Material	1.00	LS	\$188,000.00	0.00	1.00	1.00	\$188,000.00	\$0.00
55-02	Roofing Labor	1.00	LS	\$125,750.00	0.00	0.70	0.70	\$88,025.00	\$0.00
55-03	Sheet Metal Material	1.00	LS	\$25,500.00	0.00	1.00	1.00	\$25,500.00	\$0.00
55-04	Sheet Metal Labor	1.00	LS	\$15,550.00	0.00	0.80	0.80	\$12,440.00	\$0.00
55-05	Roofing Material Escalation	1.00	LS	\$42,100.00	0.00	0.00	0.00	\$0.00	\$0.00
56	Access Doors and Frames	1.00	LS	\$31,392.00	0.00	1.00	1.00	\$31,392.00	\$0.00
57	Overhead Doors - GLDD	1.00	LS	\$21,275.00	0.00	0.84	0.84	\$17,948.00	\$0.00
58	Painting - Signature	1.00	LS	\$427,000.00	0.00	0.50	0.50	\$214,550.00	\$0.00
59	Process Equipment Identifications	1.00	LS	\$5,000.00	0.00	0.00	0.00	\$0.00	\$0.00
60	Metal Canopies & Bike Racks	1.00	LS	\$25,700.00	0.00	0.00	0.00	\$0.00	\$0.00
61	Passenger Elevator	1.00	LS	\$40,000.00	0.00	1.00	1.00	\$40,000.00	\$0.00
62	Heating, Ventilating and Air Conditioning - DeCal (\$751,690.00)	1.00	LS	see item 62/82					
62/82	Combined Items 62 & 82 - HVAC & Process and Plumbing Systems - DeCal	1.00	LS	\$7,257,680.00					
62/82-01	Mobilization	1.00	LS	\$201,761.00	0.00	1.00	1.00	\$201,761.00	\$0.00
62/82-02	Demobilization	1.00	LS	\$65,460.00	0.00	0.00	0.00	\$0.00	\$0.00
62/82-03	General Conditions	1.00	LS	\$437,453.00	0.02	0.42	0.44	\$194,456.00	\$9,113.00
62/82-04	Closeout Documents	1.00	LS	\$2,500.00	0.00	1.00	1.00	\$2,500.00	\$0.00
62/82-05	Owner Training	1.00	LS	\$3,750.00	0.00	1.00	1.00	\$3,750.00	\$0.00
62/82-06	Punchlist	1.00	LS	\$3,750.00	0.00	0.25	0.25	\$937.50	\$0.00
62/82-07	Plumbing for Trailer City	1.00	LS	\$125,000.00	0.00	1.00	1.00	\$125,000.00	\$0.00
62/82-08	Cut/Cap for Demo by Others	1.00	LS	\$50,000.00	0.00	0.60	0.60	\$30,000.00	\$0.00
62/82-09	Furnish Ductile Iron Pipe and Fittings	1.00	LS	\$1,200,000.00	0.00	0.41	0.41	\$486,507.86	\$0.00
62/82-10	Furnish Carbon Steel Pipe and Fittings	1.00	LS	\$608,060.00	0.00	0.93	0.93	\$566,036.83	\$0.00
62/82-11	Furnish Process Valves	1.00	LS	\$76,000.00	0.00	1.00	1.00	\$76,000.00	\$0.00
62/82-12	Furnish Flow Meters	1.00	LS	\$70,000.00	0.00	1.00	1.00	\$70,000.00	\$0.00
62/82-13	Furnish Sump Pump Equipment	1.00	LS	\$35,000.00	0.00	0.43	0.43	\$15,000.00	\$0.00
62/82-14	Furnish Slide Gate and Stop Logs	1.00	LS	\$101,000.00	0.00	1.00	1.00	\$101,000.00	\$0.00
62/82-15	Furnish Plumbing Fixtures	1.00	LS	\$5,000.00	1.00	0.00	1.00	\$5,000.00	\$5,000.00
62/82-16	Furnish Nuts, Bolts, and Gaskets	1.00	LS	\$125,000.00	0.00	1.00	1.00	\$125,000.00	\$0.00
62/82-17	Furnish Hangers, Supports, Applicable Penetration Items	1.00	LS	\$161,000.00	0.00	0.75	0.75	\$120,750.00	\$0.00
62/82-18	Furnish Misc. Mechanical Couplings and Accessories	1.00	LS	\$150,000.00	0.00	0.94	0.94	\$140,303.24	\$0.00
62/82-19	Relocate Air Compressor	1.00	LS	\$25,000.00	0.00	0.50	0.50	\$12,500.00	\$0.00
62/82-20	Furnish and Install Temporary Piping	1.00	LS	\$415,000.00	0.00	0.30	0.30	\$124,500.00	\$0.00
62/82-21	Remove Bulkheads	1.00	LS	\$50,000.00	0.00	0.00	0.00	\$0.00	\$0.00
62/82-22	Bar Rack Work	1.00	LS	\$50,000.00	0.00	1.00	1.00	\$50,000.00	\$0.00

Jim Nash, Oakland County Water Resources Commissioner
Evergreen Farmington Sanitary Drain Drainage District
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Construction Estimate No. 33		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
62/82-23	Logistics for Sequencing and Storage	1.00	LS	\$75,000.00	0.15	0.60	0.75	\$56,250.00	\$11,250.00
62/82-24	Standby Sluice Gate	1.00	LS	\$60,000.00	0.00	0.93	0.93	\$56,000.00	\$0.00
62/82-25	Furnish and Install Sanitary/Waste/Vent Piping	1.00	LS	\$75,000.00	0.31	0.19	0.50	\$37,500.00	\$23,500.00
62/82-26	Furnish and Install Domestic Water Piping	1.00	LS	\$100,000.00	0.00	0.67	0.67	\$66,500.00	\$0.00
62/82-27	Furnish and Install Compressed Air Piping PCI-970046 \$3,103.00 credit	1.00	LS	\$36,897.00	0.00	0.46	0.46	\$17,000.00	\$0.00
62/82-28	Furnish and Install Seal Water Piping	1.00	LS	\$15,000.00	0.00	1.00	1.00	\$15,000.00	\$0.00
62/82-29	Furnish and Install Sump Pump Piping PCI-970023 \$11,236.00 credit	1.00	LS	\$13,764.00	0.00	0.45	0.45	\$6,250.00	\$0.00
62/82-30	Furn & Install Sniffer Tubing/Gas Detection PCI-970022B \$5,671 credit	1.00	LS	\$44,329.00	0.00	1.00	1.00	\$44,329.00	\$0.00
62/82-31	Furnish and Install CS Pipe Weld Joint Wraps	1.00	LS	\$120,000.00	0.00	0.18	0.18	\$21,818.19	\$0.00
62/82-32	Install Pump P1	1.00	LS	\$30,000.00	0.00	0.00	0.00	\$0.00	\$0.00
62/82-33	Install Pump P2	1.00	LS	\$30,000.00	0.00	1.00	1.00	\$30,000.00	\$0.00
62/82-34	Install Pump P3	1.00	LS	\$30,000.00	0.00	1.00	1.00	\$30,000.00	\$0.00
62/82-35	Install Pump P4	1.00	LS	\$30,000.00	0.00	0.00	0.00	\$0.00	\$0.00
62/82-36	Install P1 Discharge PVF's	1.00	LS	\$125,000.00	0.00	0.00	0.00	\$0.00	\$0.00
62/82-37	Install P2 Discharge PVF's	1.00	LS	\$125,000.00	0.00	1.00	1.00	\$125,000.00	\$0.00
62/82-38	Install P3 Discharge PVF's	1.00	LS	\$125,000.00	0.00	0.50	0.50	\$62,500.00	\$0.00
62/82-39	Install P4 Discharge PVF's	1.00	LS	\$125,000.00	0.00	0.00	0.00	\$0.00	\$0.00
62/82-40	Install Flow Meters	1.00	LS	\$75,000.00	0.00	0.25	0.25	\$18,750.00	\$0.00
62/82-41	Install Process Yard Piping	1.00	LS	\$400,000.00	0.00	0.20	0.20	\$80,000.00	\$0.00
62/82-42	Install Surge Relief Piping	1.00	LS	\$130,000.00	0.00	0.50	0.50	\$65,000.00	\$0.00
62/82-43	Install ARVs and Piping (4 places)	1.00	LS	\$45,000.00	0.00	1.00	1.00	\$45,000.00	\$0.00
62/82-44	Install Pipe at Discharge MH/OF Chamber	1.00	LS	\$35,000.00	0.00	0.00	0.00	\$0.00	\$0.00
62/82-45	Install Miscellaneous and Ancillary PVFs	1.00	LS	\$40,000.00	0.30	0.20	0.50	\$20,000.00	\$12,000.00
62/82-46	Install Electric Actuators (FBOs)	1.00	LS	\$75,000.00	0.25	0.75	1.00	\$75,000.00	\$18,750.00
62/82-47	Install Slide Gate and Stop Logs	1.00	LS	\$125,000.00	0.00	0.00	0.00	\$0.00	\$0.00
62/82-48	Install Sump Pump Equipment	1.00	LS	\$20,000.00	0.00	0.33	0.33	\$6,666.67	\$0.00
62/82-49	Install Plumbing Fixtures	1.00	LS	\$20,000.00	0.00	0.25	0.25	\$5,000.00	\$0.00
62/82-50	Test Piping (Pressure and Holiday)	1.00	LS	\$90,000.00	0.00	0.13	0.13	\$11,250.00	\$0.00
62/82-51	Insulation	1.00	LS	\$83,000.00	0.00	0.35	0.35	\$29,197.43	\$0.00
62/82-52	Furnish Cathodic Protections (Install BO)	1.00	LS	\$100,000.00	0.00	1.00	1.00	\$100,000.00	\$0.00
62/82-53	Bonds	1.00	LS	\$78,980.00	0.00	1.00	1.00	\$78,980.00	\$0.00
62/82-54	Submittals and Shop Drawings	1.00	LS	\$58,286.00	0.00	1.00	1.00	\$58,286.00	\$0.00
62/82-55	Mechanical ID	1.00	LS	\$10,000.00	0.00	0.10	0.10	\$1,000.00	\$0.00
62/82-56	Install RTU-1	1.00	LS	\$30,000.00	0.00	1.00	1.00	\$30,000.00	\$0.00
62/82-57	Sheetmetal HVAC Duct Material and Equipment	1.00	LS	\$160,850.00	0.00	1.00	1.00	\$160,850.00	\$0.00
62/82-58	Sheetmetal HVAC Installation	1.00	LS	\$125,000.00	0.00	0.76	0.76	\$94,895.26	\$0.00
62/82-59	Refrigeration (Split AC Systems)	1.00	LS	\$87,000.00	0.00	1.00	1.00	\$87,000.00	\$0.00
62/82-60	Temperature Controls	1.00	LS	\$72,000.00	0.00	0.90	0.90	\$64,800.00	\$0.00
62/82-61	Furnish RTU-1 Rooftop Unit	1.00	LS	\$121,000.00	0.00	1.00	1.00	\$121,000.00	\$0.00
62/82-62	HVAC General Conditions	1.00	LS	\$64,280.00	0.05	0.79	0.84	\$54,112.88	\$3,131.00
62/82-63	HVAC Bond	1.00	LS	\$9,020.00	0.00	1.00	1.00	\$9,020.00	\$0.00
62/82-64	HVAC Submittals and Shop Drawings	1.00	LS	\$10,000.00	0.00	1.00	1.00	\$10,000.00	\$0.00
62/82-65	HVAC Closeout	1.00	LS	\$2,500.00	0.00	1.00	1.00	\$2,500.00	\$0.00
62/82-66	HVAC Owner Training	1.00	LS	\$3,750.00	0.00	1.00	1.00	\$3,750.00	\$0.00
62/82-67	HVAC Punchlist	1.00	LS	\$3,750.00	0.00	0.00	0.00	\$0.00	\$0.00
62/82-68	HVAC Mobilization	1.00	LS	\$35,000.00	0.00	1.00	1.00	\$35,000.00	\$0.00
62/82-69	HVAC Demobilization	1.00	LS	\$7,540.00	0.00	0.00	0.00	\$0.00	\$0.00
62/82-70	Furnish and Install Natural Gas Piping	1.00	LS	\$20,000.00	0.00	1.00	1.00	\$20,000.00	\$0.00
63	Engine Generators & Startup Fuel	1.00	LS	\$25,000.00	0.00	1.00	1.00	\$25,000.00	\$0.00
64	Site Work - Mobilization	1.00	LS	\$100,000.00	0.00	1.00	1.00	\$100,000.00	\$0.00

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. 33		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
65	Site Work - Install Laydown & Excavate & Backfill Temporary Utilities	1.00	LS	\$690,000.00	0.00	1.00	1.00	\$690,000.00	\$0.00
66	Site Work - Dig, Install, Backfill Storm, Water Mains, Fire Hydrant	1.00	LS	\$675,000.00	0.00	0.89	0.89	\$600,000.00	\$0.00
67	Site Work - Dig, Backfill Electrical Ductbanks	1.00	LS	\$36,000.00	0.00	1.00	1.00	\$36,000.00	\$0.00
68	Site Work - Site Demo Pump Station	1.00	LS	\$125,000.00	0.00	0.52	0.52	\$65,000.00	\$0.00
69	Site Work Dig & Backfill Yard Pipe & Precast Manholes & Site CIP Concrete	1.00	LS	\$877,000.00	0.00	0.36	0.36	\$315,000.00	\$0.00
70	Site Work Dig & Backfill Valve Vault	1.00	LS	\$280,000.00	0.00	1.00	1.00	\$280,000.00	\$0.00
71	Site Work Demo Overflow Chamber From Grade to -15'	1.00	LS	\$554,200.00	0.09	0.00	0.09	\$50,000.00	\$50,000.00
72	Site Work Demo Overflow Chamber From -15' to BOE	1.00	LS	\$370,000.00	0.00	0.00	0.00	\$0.00	\$0.00
73	Site Work Backfill & Road Prep Overflow Chamber	1.00	LS	\$380,000.00	0.00	0.00	0.00	\$0.00	\$0.00
74	Site Work Demo Laydown, Temp Utilities, Restore Pump Station & Laydown	1.00	LS	\$200,000.00	0.00	0.00	0.00	\$0.00	\$0.00
75	Site Work Demobilize	1.00	LS	\$45,000.00	0.00	0.00	0.00	\$0.00	\$0.00
76	Temporary Earth Retention System (Chamber) - EC Korneffel	1.00	LS	\$944,678.00	0.11	0.01	0.12	\$113,325.00	\$103,875.00
77	Temporary Paving Work - Sidewalks at Trailers	1.00	LS	\$20,000.00	0.00	1.00	1.00	\$20,000.00	\$0.00
78	Temporary Paving Work - Parking Lot Patches	1.00	LS	\$41,000.00	0.00	1.00	1.00	\$41,000.00	\$0.00
79	Temporary Paving Work - Minor 8 Mile Road Patch	1.00	LS	\$20,000.00	0.00	1.00	1.00	\$20,000.00	\$0.00
80	Temporary Paving Work - Approaches, Temp Roads & Crane Pad	1.00	LS	\$50,000.00	0.00	1.00	1.00	\$50,000.00	\$0.00
81	Chain Link Fences and Gates - Future Fence	1.00	LS	\$161,686.00	0.00	0.36	0.36	\$58,229.50	\$0.00
82	Process & Plumbing Systems - DeCal (\$6,526,000.00)	1.00	LS	see item 62/82					
83	Instrumentation and Control for Process Systems - ICS	1.00	LS	\$998,000.00					
83-01	Submittals + OM, Training	1.00	LS	\$75,000.00	0.00	0.83	0.83	\$62,000.00	\$0.00
83-02	Hardware design parts management	1.00	LS	\$100,000.00	0.00	1.00	1.00	\$100,000.00	\$0.00
83-03	Field Devices and Start up, warranty	1.00	LS	\$75,000.00	0.00	1.00	1.00	\$75,000.00	\$0.00
83-04	MCP Start up parts, build, warranty	1.00	LS	\$107,000.00	0.00	1.00	1.00	\$107,000.00	\$0.00
83-05	Software Programming and SCADA	1.00	LS	\$125,000.00	0.02	0.70	0.72	\$90,000.00	\$3,000.00
83-06	OOS Panel, Start up, parts, labor, warranty	1.00	LS	\$65,000.00	0.00	0.92	0.92	\$60,000.00	\$0.00
83-07	Project Management / Support	1.00	LS	\$97,000.00	0.02	0.64	0.66	\$64,000.00	\$2,000.00
83-08	Startup	1.00	LS	\$354,000.00	0.06	0.45	0.51	\$179,000.00	\$20,000.00
84	General Conditions Staffing	1.00	LS	\$6,550,618.00	0.02	0.41	0.43	\$2,807,407.68	\$116,975.32
85	General Requirements- Trailer City Mobilize & Trailer Setup	1.00	LS	\$100,000.00	0.00	1.00	1.00	\$100,000.00	\$0.00
86	General Requirements- Trailer City Trailer Rental & Monthly Expenses	1.00	LS	\$224,310.00	0.02	0.37	0.39	\$88,200.00	\$4,900.00
87	General Requirements- Trailer City Trailer Technology Equipment	1.00	LS	\$35,000.00	0.00	0.62	0.62	\$21,871.61	\$0.00
88	General Requirements- Trailer City Demobilization	1.00	LS	\$25,000.00	0.00	0.00	0.00	\$0.00	\$0.00
89	General Requirements- Temp. Const. Signs, Conc. Brriers, Tool Storage, Storage	1.00	LS	\$99,592.00	0.00	1.00	1.00	\$99,592.00	\$0.00
90	General Requirements- Temp. Const. FE, Fence Maintenance, Snow Fence, Ladders,	1.00	LS	\$73,366.00	0.02	0.39	0.41	\$30,400.00	\$1,600.00
91	General Requirements- Temp. Const. Printing	1.00	LS	\$15,000.00	0.00	0.04	0.04	\$530.00	\$0.00
92	General Requirements- Temp. Const. Skid Steer Rental	1.00	LS	\$10,000.00	0.00	0.21	0.21	\$2,129.67	\$0.00
93	General Requirements- Temp. Const. Remove Storage Compound & Punch List	1.00	LS	\$30,000.00	0.00	0.00	0.00	\$0.00	\$0.00
94	General Requirements- Temp. Utilities & Equipment Hand Washing Station	1.00	LS	\$5,000.00	0.00	1.00	1.00	\$5,000.00	\$0.00
95	General Requirements- Temp. Utilities & Equipment Temp Toilets, Drinking Water,	1.00	LS	\$98,750.00	0.02	0.39	0.41	\$40,850.00	\$2,150.00
96	General Requirements- Temp. Utilities & Equipment-Hydrant Water & Dust Control	1.00	LS	15,500.00	0.00	0.00	0.00	\$0.00	\$0.00
97	General Requirements- Temp. Utilities & Equipment - Telehandler/Equipment with	1.00	LS	88,346.00	0.00	0.35	0.35	\$30,521.68	\$0.00
98	General Requirements- Temp. Utilities & Equipment - Street Sweeping	1.00	LS	62,500.00	0.00	0.06	0.06	\$3,516.82	\$0.00
99	General Requirements- Temp. Utilities & Equipment - Scaffolding for Stair Towers	1.00	LS	50,000.00	0.00	0.31	0.31	\$15,586.26	\$0.00
100	General Requirements- Safety Handrails at Floor & Roof Openings	1.00	LS	27,000.00	0.00	1.00	1.00	\$27,000.00	\$0.00
101	General Requirements- Safety Supplies, Periodic Cleanup, Maintenance	1.00	LS	73,000.00	0.02	0.39	0.42	\$30,400.00	\$1,600.00
102	General Requirements- Safety Snow Removal & Drug Tests	1.00	LS	26,000.00	0.00	0.13	0.13	\$3,283.18	\$0.00
103	General Requirements- Safety Final Cleanup	1.00	LS	40,000.00	0.00	0.00	0.00	\$0.00	\$0.00
104	General Requirements- Labor, Carpenter & Truck	1.00	LS	643,069.00	0.02	0.38	0.40	\$259,000.00	\$14,000.00
105	Performance and Payment Bonds	1.00	LS	378,135.00	0.00	1.00	1.00	\$378,135.00	\$0.00
106	General Liability Insurance - Supplementary to OCIP	1.00	LS	202,100.00	0.01	0.50	0.51	\$103,325.94	\$2,476.80

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

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. 33		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
107	Base Contract Contingency	1.00	LS	1,294,753.00					
107-022A	PCI-970022B - Delete Gas Detection System (Rotor Credit)	1.00	LS	41,898.41					
107-022B	PCI-970022B - Delete Gas Detection System (Decal)	1.00	LS	5,671.00					
107-023B	PCI-970023 - FO # 15 -Drains and Sump changes (Decal)	1.00	LS	11,236.00					
107-31D	PCI-970031 - Electrical Room Steel & N. Wall Opening (Rotor Credit)	1.00	LS	11,691.00					
107-040	PCI-970040 - Change Disconnects - P1 - P4 Equipment (Rotor Credit)	1.00	LS	7,855.00					
107-042	Reduce Bridge Crane Allowance by \$118,219.32 (see SOV #21)	1.00	LS	118,219.32					
107-046	PCI-970046 - Delete CA to Water Bldg (De-Cal CO#6)	1.00	LS	3,103.00					
2	Final Adj. to OCO#2 Generator (Includes Insurance & OH&P)	1.00	LS	1,288.09					
107 Rev.	Base Contract Contingency plus Credits			1,495,714.82					
107-Bal	Coningency Balance Remaining	1.00	LS	741,790.24	0.00	0.00	0.00	\$0.00	\$0.00
107-007A	PCI-97007 - Addendum Nos. 5 & 6 (Ross CO #3)	1.00	LS	52,034.00	0.00	1.00	1.00	\$52,034.00	\$0.00
107-007B	PCI-97007 - Addendum Nos. 5 & 6 (Ross CO #3)	1.00	LS	10,069.16	0.00	0.00	0.00	\$0.00	\$0.00
107-008	PCI-970008 - RFI #3 Electrical & Breaker Size to RTU 1-R3 (Rotor CO #1)	1.00	LS	3,678.67	0.00	1.00	1.00	\$3,678.67	\$0.00
107-009A	PCI-970009 - RFI #7 FO #7 Elevator & Wet Well HVAC Changes (Decal)	1.00	LS	30,908.00	0.00	1.00	1.00	\$30,908.00	\$0.00
107-009B	PCI-970009 - RFI #7 FO #7 Elevator & Wet Well HVAC Changes (BNE)	1.00	LS	1,038.43	0.00	1.00	1.00	\$1,038.43	\$0.00
107-009C	PCI-970009 - RFI #7 FO #7 Elevator & Wet Well HVAC Changes (Royal)	1.00	LS	4,700.00	0.00	1.00	1.00	\$4,700.00	\$0.00
107-009D	PCI-970009 - RFI #7 FO #7 Elevator & Wet Well HVAC Changes (Walsh)	1.00	LS	2,664.63	0.00	1.00	1.00	\$2,664.63	\$0.00
107-014	PCI-970014 - VFD Changes - Pump Wiring (MASB11)/RFI #29/RFI #47 (Rotor)	1.00	LS	27,997.46	0.00	1.00	1.00	\$27,997.46	\$0.00
107-016	PCI-970016 - Field Order 6 (wiring & MCC bucket changes for PS HVAC (Rotor)	1.00	LS	4,730.00	0.00	1.00	1.00	\$4,730.00	\$0.00
107-018	PCI-970018 - Mag Meter Cable Lengths (Decal)	1.00	LS	3,674.00	0.00	1.00	1.00	\$3,674.00	\$0.00
107-021	PCI-970021 - FO # 13 - MDOT Plan Rev. Pavement & Crossover (Walsh)	1.00	LS	2,200.00	0.00	0.00	0.00	\$0.00	\$0.00
107-023A	PCI-970023 - FO # 15 -Drains and Sump changes (Walsh)	1.00	LS	7,231.07	0.00	1.00	1.00	\$7,231.07	\$0.00
107-025	PCI-970025 - RFI #44 CMU Top of Wall Bracing (BNE)	1.00	LS	1,800.00	0.00	1.00	1.00	\$1,800.00	\$0.00
107-026	PCI-970026 - PrePurchase Pipe / Pump #2 Replace (Decal)	1.00	LS	12,617.00	0.00	1.00	1.00	\$12,617.00	\$0.00
107-028	PCI-970028 - Temporary Generator to Run Existing Pump #5 & New Pump #4	1.00	LS	300,000.00	0.00	0.10	0.10	\$29,728.50	\$0.00
107-30A	PCI-970030 - WD 02- Masonry/Screen/Vault Ladder (Blue Star CO#3)	1.00	LS	1,236.00	0.00	1.00	1.00	\$1,236.00	\$0.00
107-30B	PCI-970030 - WD 02- Masonry/Screen/Vault Ladder (BnE CO#5)	1.00	LS	14,414.84	0.00	1.00	1.00	\$14,414.84	\$0.00
107-30C	PCI-970030 - WD 02- Masonry/Screen/Vault Ladder (Reickoff)	1.00	LS	14,200.00	0.00	1.00	1.00	\$14,200.00	\$0.00
107-30D	PCI-970030 - WD 02- Masonry/Screen/Vault Ladder (Ross CO#4)	1.00	LS	33,019.00	0.00	1.00	1.00	\$33,019.00	\$0.00
107-30E	PCI-970030 - WD 02- Masonry/Screen/Vault Ladder (Signature CO#1)	1.00	LS	2,300.00	0.00	1.00	1.00	\$2,300.00	\$0.00
107-30F	PCI-970030 - WD 02- Masonry/Screen/Vault Ladder (Walsh SP)	1.00	LS	7,220.76	0.00	1.00	1.00	\$7,220.76	\$0.00
107-31A	PCI-970031 - Electrical Room Steel & N. Wall Opening (Ross CO#4)	1.00	LS	34,310.00	0.00	1.00	1.00	\$34,310.00	\$0.00
107-31B	PCI-970031 - Electrical Room Steel & N. Wall Opening (BnE CO#4)	1.00	LS	16,360.78	0.00	1.00	1.00	\$16,360.78	\$0.00
107-31C	PCI-970031 - Electrical Room Steel & N. Wall Opening (Walsh SP)	1.00	LS	177.79	0.00	1.00	1.00	\$177.79	\$0.00
107-037	PCI-970037 - I&Cs Process Systems-PS & SSO Control Mods for Emergency Control	1.00	LS	11,000.00	0.00	1.00	1.00	\$11,000.00	\$0.00
107-42A	PCI 970042 - FO 24-SSO Chamber Privacy Wall and Parking Lot Modifications	1.00	LS	114,904.23	0.09	0.61	0.70	\$79,904.23	\$9,904.23
107-42B	PCI 970042 - FO 24-SSO Chamber Privacy Wall and Parking Lot Modifications (Rotor)	1.00	LS	3,315.00	0.00	0.00	0.00	\$0.00	\$0.00
107-044	PCI-970044 - Crack Injection PS Divider Wall (BnE CO#4)	1.00	LS	10,857.88	0.00	1.00	1.00	\$10,857.88	\$0.00
107-045A	PCI-970045 - Heater in Docking Station (Rotor CO #4)	1.00	LS	2,350.00	0.00	1.00	1.00	\$2,350.00	\$0.00
107-045B	PCI-970045 - Heater in Docking Station (Cummins CO #2)	1.00	LS	2,447.11	0.00	1.00	1.00	\$2,447.11	\$0.00
107-051	PCI-970051 - Sheet Metal Ceiling Plates (De-Cal CO#7)	1.00	LS	960.30	0.00	1.00	1.00	\$960.30	\$0.00
107-051A	PCI-970051 - Sheet Metal Ceiling Plates (Walsh SP)	1.00	LS	2,529.72	0.00	1.00	1.00	\$2,529.72	\$0.00
107-052	PCI-970052 - Elevator 120V circuit (Rotor CO#6)	1.00	LS	3,856.00	0.00	1.00	1.00	\$3,856.00	\$0.00
107-056	PCI-970056 - Drainage Slope at Overhead Doors (Walsh SP)	1.00	LS	5,622.75	0.00	0.00	0.00	\$0.00	\$0.00
107-058	PCI-970058 - Piping AHU Condensate Drains (Walsh SP)	1.00	LS	7,500.00	0.00	1.00	1.00	\$7,500.00	\$0.00
108	FEE 6.5%	1.00	LS	2,466,394.00	0.00	0.47	0.47	\$1,168,642.43	\$0.00
109									
110									

**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. 33		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment

Change Orders:

8-1	PCI-970015 - Asbestos Gasket Abatement (Bluestar + Walsh OH&P/Ins)	1.00	LS	22,747.46	0.00	0.48	0.48	\$10,945.23	\$0.00
8-2	PCI-970017 - Field Order 8 Elevator Fire Alarm System (Rotor + Walsh OH&P/Ins)	1.00	LS	98,530.91	0.00	1.00	1.00	\$98,530.91	\$0.00
8-3A	PCI-970024 - Remove / Replace Pump #2 suction pipe (Decal)	1.00	LS	16,102.00	0.00	1.00	1.00	\$16,102.00	\$0.00
8-3B	PCI-970024 - Remove / Replace Pump #2 suction pipe (BlueStar)	1.00	LS	80,406.44	0.00	1.00	1.00	\$80,406.44	\$0.00
8-3C	PCI-970024 - Remove / Replace Pump #2 suction pipe (Walsh)	1.00	LS	48,179.00	0.00	1.00	1.00	\$48,179.00	\$0.00
8-4	Reduce Building Permit Allowance by \$150,000 (see SOV #25)	1.00	LS	0.00					
9-1A	PCI-970034 - WRC Generator (Rotor CO#5)	1.00	LS	118,920.78	0.00	0.21	0.21	\$25,000.00	\$0.00
9-1B	PCI-970034 - WRC Generator (Decal CO#5)	1.00	LS	10,609.00	0.00	0.57	0.57	\$6,000.00	\$0.00
9-1C	PCI-970034 - WRC Generator (Ross CO#5)	1.00	LS	3,192.00	0.00	1.00	1.00	\$3,192.00	\$0.00
9-1D	PCI-970034 - WRC Generator (Walsh)	1.00	LS	77,249.48	0.00	0.74	0.74	\$57,249.48	\$0.00
9-2	PCI-970038 - P5 floor chipping (Blue Star CO #4 + Walsh OH&P/Ins)	1.00	LS	8,624.34	0.00	1.00	1.00	\$8,624.34	\$0.00
9-3	PCI-970041 - Asbestos Gasket (Blue Star CO #4 + Walsh OH&P/Ins)	1.00	LS	882.48	0.00	1.00	1.00	\$882.48	\$0.00

Stored Material:

						0.00	0.00	\$0.00	\$0.00

Deductions:

						0.00	0.00	\$0.00	\$0.00

Total Amount to Date	\$28,193,815.24
Total Amount This Estimate	\$507,665.44
Change Orders to Date	\$355,111.88
Change Orders This Estimate	\$0.00
Stored Materials to Date	\$0.00
Stored Materials This Estimate	\$0.00
Subtotal to Date	\$28,548,927.12
Subtotal This Estimate	\$507,665.44
Deductions to Date	\$0.00
Deductions This Estimate	\$0.00
Payment This Estimate	\$507,665.44
Less Transfer to Reserve	\$0.00
Net Payment	\$507,665.44

Jim Nash, Oakland County Water Resources Commissioner
Evergreen Farmington Sanitary Drain Drainage District
For Construction of the I-696 Pump Station Rehabilitation
Southfield
Oakland County, Michigan

Construction Estimate No. 3

September 27, 2024 to November 27, 2024

Department No. : 6010101
Fund No. : 82410
Project No. : PRJ-17459

Account No. : 730352
Program No. : 149667
Activity : CON ✓
Vendor No. : 16424

Contractor :
Lawrence M. Clarke Inc.
50850 Bemis Rd
Belleville, MI 48111

Contract No. : 00009173
Date of Contract : 2/9/2024
Completion Date : 6/3/2025

Original Contract Amount:		\$1,597,500.00
Previous Change Order Numbers (none):		\$0.00
Change Orders This Estimate Numbers (none):		\$0.00
Total Net Change Orders:		\$0.00
<u>Adjusted Contract Amount:</u>		<u>\$1,597,500.00</u> ✓
Subtotal To Date: (Sheet 2 of 2 Column 7)		\$314,015.85
Less Deductions to Date: (Sheet 2 of 2 Column 7)		\$0.00
Gross Estimate: (Work in Place)	19.66%	\$314,015.85
Less Amount Reserved: (10% of Gross Estimate)		\$31,401.59
Total Amount Allowed To Date:		\$282,614.27
Less Previous Estimates:		\$164,891.37
Net Payment Request To Be Paid To Contractor:		\$117,722.90
Reserve Payment to Contractor		\$0.00
Balance of Contract To Date	✓ \$1,283,484.15	Accounting Auditor: <i>BFR</i> 12/10/2024
Less Previous Transfers To Reserve:		\$18,321.26 ✓
<u>Amount of Current Transfer:</u>		<u>\$13,080.32</u>

Prepared by: Scott Schultz
Scott Schultz - Project Engineer

Date: 12/10/24

Recommended by: Mark Mattson
Mark Mattson, P.E. - Consulting Engineer

Date: 12/10/2024

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

Date: 12/11/2024

Approved by Board on: _____

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

**Jim Nash, Oakland County Water Resources Commissioner
Evergreen Farmington Sanitary Drain Drainage District
For Construction of the I-696 Pump Station Rehabilitation
Southfield
Oakland County, Michigan**

Construction Estimate No. 3		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
1	Mobilization, 5% max	1	LS	\$50,000.00	0.00	0.50	0.5	\$25,000.00	\$0.00
2	Color Audio Video Recording of Construction Ares	1	LS	\$10,000.00	0.00	1.00	1.0	\$10,000.00	\$0.00
3	Permit Fee Allowance	1	LS	\$6,000.00	0.00	0.00	0.0	\$0.00	\$0.00
4	Soil Erosion and Sedimentation Control	1	LS	\$10,000.00	0.00	0.50	0.5	\$5,000.00	\$0.00
5	DTE Allowance	1	LS	\$26,000.00	0.00	0.00	0.0	\$0.00	\$0.00
6	Clearing, Grubbing, and Stump Removal	1	LS	\$20,000.00	0.00	1.00	1.0	\$20,000.00	\$0.00
7	Demolition	1	LS	\$65,000.00	0.00	0.00	0.0	\$0.00	\$0.00
8	Site Excavation, Piping, Valves and Fittings	1	LS	\$140,000.00	0.00	0.00	0.0	\$0.00	\$0.00
9	Wet Well Modifications	1	LS	\$95,000.00	0.00	0.00	0.0	\$0.00	\$0.00
10	Submersible Non-Clog Chopper Pumps	1	LS	\$200,000.00	0.00	0.00	0.0	\$0.00	\$0.00
11	Final Force Main Connection	1	LS	\$30,000.00	0.00	0.00	0.0	\$0.00	\$0.00
12	Water Service	1	LS	\$28,000.00	0.00	0.00	0.0	\$0.00	\$0.00
13	Bypass Pumping	1	LS	\$50,000.00	0.00	0.00	0.0	\$0.00	\$0.00
14	Building	1	LS	\$300,000.00	0.00	0.00	0.0	\$0.00	\$0.00
15	Electrical	1	LS	\$90,000.00	0.00	0.00	0.0	\$0.00	\$0.00
16	Electrical Service Relocation	1	LS	\$75,000.00	0.00	0.00	0.0	\$0.00	\$0.00
17	Generator and Transfer Switch	1	LS	\$150,000.00	0.00	0.00	0.0	\$0.00	\$0.00
18	Controls and SCADA	1	LS	\$85,000.00	0.00	0.00	0.0	\$0.00	\$0.00
19	Programming and SCADA Equipment Allowance	1	LS	\$112,500.00	0.00	0.00	0.0	\$0.00	\$0.00
20	Rain Gauge	1	LS	\$10,000.00	0.00	0.00	0.0	\$0.00	\$0.00
21	Site Restoration Work	1	LS	45,000.00	0.00	0.00	0.0	\$0.00	\$0.00
22						0.0	0.0	\$0.00	\$0.00
23						0.0	0.0	\$0.00	\$0.00
24						0.0	0.0	\$0.00	\$0.00
25						0.0	0.0	\$0.00	\$0.00
26						0.0	0.0	\$0.00	\$0.00
27						0.0	0.0	\$0.00	\$0.00
28						0.0	0.0	\$0.00	\$0.00
29						0.0	0.0	\$0.00	\$0.00
30						0.0	0.0	\$0.00	\$0.00
31						0.0	0.0	\$0.00	\$0.00
32						0.0	0.0	\$0.00	\$0.00
33						0.0	0.0	\$0.00	\$0.00
34						0.0	0.0	\$0.00	\$0.00
35						0.0	0.0	\$0.00	\$0.00
36						0.0	0.0	\$0.00	\$0.00
37						0.0	0.0	\$0.00	\$0.00
38						0.0	0.0	\$0.00	\$0.00
39						0.0	0.0	\$0.00	\$0.00
40						0.0	0.0	\$0.00	\$0.00
41						0.0	0.0	\$0.00	\$0.00
42						0.0	0.0	\$0.00	\$0.00
43						0.0	0.0	\$0.00	\$0.00
44						0.0	0.0	\$0.00	\$0.00
45						0.0	0.0	\$0.00	\$0.00
46						0.0	0.0	\$0.00	\$0.00
47						0.0	0.0	\$0.00	\$0.00
48						0.0	0.0	\$0.00	\$0.00
49						0.0	0.0	\$0.00	\$0.00
50						0.0	0.0	\$0.00	\$0.00
51						0.0	0.0	\$0.00	\$0.00
52						0.0	0.0	\$0.00	\$0.00
53						0.0	0.0	\$0.00	\$0.00
54						0.0	0.0	\$0.00	\$0.00
55						0.0	0.0	\$0.00	\$0.00
56						0.0	0.0	\$0.00	\$0.00
57						0.0	0.0	\$0.00	\$0.00
58						0.0	0.0	\$0.00	\$0.00
59						0.0	0.0	\$0.00	\$0.00
60						0.0	0.0	\$0.00	\$0.00
61						0.0	0.0	\$0.00	\$0.00
62						0.0	0.0	\$0.00	\$0.00
63						0.0	0.0	\$0.00	\$0.00
64						0.0	0.0	\$0.00	\$0.00
65						0.0	0.0	\$0.00	\$0.00
66						0.0	0.0	\$0.00	\$0.00
67						0.0	0.0	\$0.00	\$0.00

Change Orders:

						0.0	0.0	\$0.00	\$0.00

Stored Material:

1	Pipe and Fittings	1	LS	\$13,577.43	0.00	1.0	1.0	\$13,577.43	\$0.00
2	Valves	1	LS	\$12,366.85	0.00	1.0	1.0	\$12,366.85	\$0.00
3	Fabricated Ductile Iron	1	LS	\$4,833.60	0.00	1.0	1.0	\$4,833.60	\$0.00
4	Vent Screen	1	LS	\$79.50	0.00	1.0	1.0	\$79.50	\$0.00
5	Ductile Iron Fittings	1	LS	\$1,917.54	0.00	1.0	1.0	\$1,917.54	\$0.00
6	Victaulic Couplings	1	LS	\$567.10	0.00	1.0	1.0	\$567.10	\$0.00
7	Ductile Iron and Gaskets	1	LS	\$9,870.61	0.00	1.0	1.0	\$9,870.61	\$0.00
8	Submersible Chopper Pumps	1	LS	\$130,803.22	1.00	1.0	1.0	\$130,803.22	\$130,803.22
9	SCADA Panels	1	LS	\$80,000.00	0.00	1.0	1.0	\$80,000.00	\$0.00

Deductions:

						0.0	0.0	\$0.00	\$0.00

Total Amount to Date	\$60,000.00
Total Amount This Estimate	\$0.00
Change Orders to Date	\$0.00
Change Orders This Estimate	\$0.00
Stored Materials to Date	\$254,015.85
Stored Materials This Estimate	\$130,803.22
Subtotal to Date	\$314,015.85
Subtotal This Estimate	\$130,803.22
Deductions to Date	\$0.00
Deductions This Estimate	\$0.00
Payment This Estimate	\$130,803.22
Less Transfer to Reserve	\$13,080.32
Net Payment	\$117,722.90

Instructions:

Once this worksheet is filled in for Estimate No. 1, it should be copied and renamed to create Estimate No. 2. This procedure should be repeated for each subsequent estimate and the final payment. Starting with Estimate No. 2, formulae should be entered in Column 5 to reference Column 6 of the previous estimate, the formula in cell B8 should be modified, and the quantities in Column 4 should be updated to reflect the current period.

Add line to show new substantial and final contract times on Approved Est sheet as needed.
Delete instructions before final submittal for accounting review.

**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. 1

October 21, 2024 to November 30, 2024

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	
<u>Adjusted Contract Amount:</u>		<u>\$7,387,461.00</u>	✓
Subtotal To Date: (Sheet 2 of 2 Column 7)		\$64,110.55	
Less Deductions to Date: (Sheet 2 of 2 Column 7)		\$0.00	
Gross Estimate: (Work in Place)	0.87%	\$64,110.55	
Less Amount Reserved: (10% of Gross Estimate)		\$6,411.06	✓
Total Amount Allowed To Date:		\$57,699.50	
Less Previous Estimates:		\$0.00	
Net Payment Request To Be Paid To Contractor:		\$57,699.50	
Reserve Payment to Contractor		\$0.00	
Balance of Contract To Date	✓ \$7,323,350.45		Accounting Auditor: <i>BCR</i> 12/10/2024
Less Previous Transfers To Reserve:		\$0.00	
<u>Amount of Current Transfer:</u>		<u>\$6,411.06</u>	

Prepared by: Scott Schultz
 Scott Schultz - Project Engineer

Date: 12/10/24

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

Date: 12/10/24

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

Date: 12/11/2024

Approved by Board on: _____

**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. 1	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous Estimate	Total Quantity to Date	Total Amount to Date	Total Amount This Payment
1 Design & Regulatory Permits and Approvals	1	LS	\$444,500.30	0.14	0.0	0.1	\$64,110.55	\$64,110.55
1 Mobilization, Bonds, Insurance & Initial Setup Expense (5% max)	1	LS	\$156,100.70	0.00	0.0	0.0	\$0.00	\$0.00
2 Construction Administration	1	LS	\$51,000.00	0.00	0.0	0.0	\$0.00	\$0.00
3 Site Preparation	1	LS	\$531,000.00	0.00	0.0	0.0	\$0.00	\$0.00
4 Traffic Maintenance and Control	1	LS	\$61,100.00	0.00	0.0	0.0	\$0.00	\$0.00
5 Preconstruction Audio-Video Documentation	1	LS	\$22,000.00	0.00	0.0	0.0	\$0.00	\$0.00
6 Soil Erosion and Sedimentation Control	1	LS	\$15,000.00	0.00	0.0	0.0	\$0.00	\$0.00
7 Sewer Cleaning of 36-inch Sewer	3,080	LF	\$82.00	0.00	0.0	0.0	\$0.00	\$0.00
8 Sewer Cleaning of 48-inch Sewer	2,930	LF	\$82.00	0.00	0.0	0.0	\$0.00	\$0.00
9 Bypass Pumping	1	LS	\$765,000.00	0.00	0.0	0.0	\$0.00	\$0.00
10 Rehabilitate Manhole	410	VFT	\$400.00	0.00	0.0	0.0	\$0.00	\$0.00
11 Raise Manhole SOT111-004	1	LS	\$2,500.00	0.00	0.0	0.0	\$0.00	\$0.00
12 Sewer Joint Repair, 36-inch	10	EA	\$1,970.00	0.00	0.0	0.0	\$0.00	\$0.00
13 Sewer Joint Repair, 48-inch	10	EA	\$2,340.00	0.00	0.0	0.0	\$0.00	\$0.00
14 Thermal Cured-in-place Lining of 36-inch Sewer	3,080	LF	\$460.00	0.00	0.0	0.0	\$0.00	\$0.00
15 Thermal Cured-in-place Lining of 48-inch Sewer	2,930	LF	\$1,022.00	0.00	0.0	0.0	\$0.00	\$0.00
16 Pre & Post Lining, CCTV Sewer Inspection (includes manholes)	6,010	LF	\$6.67	0.00	0.0	0.0	\$0.00	\$0.00
17 Slope Stabilization	1	LS	\$30,000.00	0.00	0.0	0.0	\$0.00	\$0.00
18 Site Restoration	1	LS	\$150,000.00	0.00	0.0	0.0	\$0.00	\$0.00
19					0.0	0.0	\$0.00	\$0.00
20					0.0	0.0	\$0.00	\$0.00
21					0.0	0.0	\$0.00	\$0.00
22					0.0	0.0	\$0.00	\$0.00
24					0.0	0.0	\$0.00	\$0.00
25					0.0	0.0	\$0.00	\$0.00
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31					0.0	0.0	\$0.00	\$0.00
32					0.0	0.0	\$0.00	\$0.00
33					0.0	0.0	\$0.00	\$0.00
34					0.0	0.0	\$0.00	\$0.00
35					0.0	0.0	\$0.00	\$0.00
36					0.0	0.0	\$0.00	\$0.00
37					0.0	0.0	\$0.00	\$0.00
38					0.0	0.0	\$0.00	\$0.00
39					0.0	0.0	\$0.00	\$0.00
40					0.0	0.0	\$0.00	\$0.00
41					0.0	0.0	\$0.00	\$0.00
42					0.0	0.0	\$0.00	\$0.00
43					0.0	0.0	\$0.00	\$0.00
44					0.0	0.0	\$0.00	\$0.00
45					0.0	0.0	\$0.00	\$0.00
46					0.0	0.0	\$0.00	\$0.00
47					0.0	0.0	\$0.00	\$0.00
48					0.0	0.0	\$0.00	\$0.00
49					0.0	0.0	\$0.00	\$0.00
50					0.0	0.0	\$0.00	\$0.00
51					0.0	0.0	\$0.00	\$0.00
52					0.0	0.0	\$0.00	\$0.00
53					0.0	0.0	\$0.00	\$0.00
54					0.0	0.0	\$0.00	\$0.00
55					0.0	0.0	\$0.00	\$0.00
56					0.0	0.0	\$0.00	\$0.00
57					0.0	0.0	\$0.00	\$0.00
58					0.0	0.0	\$0.00	\$0.00
59					0.0	0.0	\$0.00	\$0.00
60					0.0	0.0	\$0.00	\$0.00
61					0.0	0.0	\$0.00	\$0.00
62					0.0	0.0	\$0.00	\$0.00
63					0.0	0.0	\$0.00	\$0.00
64					0.0	0.0	\$0.00	\$0.00
65					0.0	0.0	\$0.00	\$0.00
66					0.0	0.0	\$0.00	\$0.00
67					0.0	0.0	\$0.00	\$0.00

Change Orders:

					0.0	0.0	\$0.00	\$0.00

Stored Material:

Deductions:

					0.0	0.0	\$0.00	\$0.00

Total Amount to Date	\$64,110.55
Total Amount This Estimate	\$64,110.55
Change Orders to Date	\$0.00
Change Orders This Estimate	\$0.00
Stored Materials to Date	\$0.00
Stored Materials This Estimate	\$0.00
Subtotal to Date	\$64,110.55
Subtotal This Estimate	\$64,110.55
Deductions to Date	\$0.00
Deductions This Estimate	\$0.00
Payment This Estimate	\$64,110.55
Less Transfer to Reserve	\$6,411.06
Net Payment	\$57,699.50

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



DATE: December 17, 2024

SUBJECT: Request for Approval of Invoices

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

<u>Payable To</u>	<u>Ref No.</u>	<u>For</u>	<u>Amount</u>
Fishbeck	SINV00305661	Inv# 444943 - Engineering Services - PRJ-17455	1,573.00
		Subtotal - Project #17455	1,573.00
DLZ Michigan Inc	SINV00303751	Inv# 000402383 - Engineering Services - Proj #17554	4,535.60
		Subtotal - Project #17554	4,535.60
DLZ Michigan Inc	SINV00303750	Inv# 000402382 - Engineering Services - Proj #17555	7,068.42
		Subtotal - Project #17555	7,068.42
Orchard Hiltz and McCliment Inc	SINV00305759	Inv# 82611 - Contracted Services	2,246.50
Dickinson Wright PLLC	SINV00305660	Inv# 1918924 - Contracted Services	1,072.10
		Subtotal	3,318.60
		Total	16,495.62

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
OCWRC Accounting



DATE: December 17, 2024

SUBJECT: Request for Approval of Invoices

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

<u>Payable To</u>	<u>Ref No.</u>	<u>For</u>	<u>Amount</u>
Hubbell Roth and Clark Inc	SINV00306539	Inv# 0222485 - Engineering Services - PRJ-17449	2,531.04
		Subtotal - Project #17449	2,531.04
PMA Consultants LLC	SINV00303376	Inv# 04582.00-1.0-22 - Contracted Services - PRJ-17452	3,794.00
		Subtotal - Project #17452	3,794.00
		Total	6,325.04

**7. Clinton River Water
Resource Recovery Facility**

AGENDA

DRAINAGE BOARD FOR THE CLINTON RIVER WATER RESOURCE RECOVERY FACILITY

December 17, 2024

1. Call meeting to order
2. Approve minutes of meeting of November 26, 2024
3. Public Comments
4. Present Change Order No. 4 for Clark Construction Company for Construction of the Optimization Phase 1 Project for a net decrease in the amount of \$10,830
5. Present Construction Estimate No. 4 for Clark Construction Company for Construction of the Optimization Phase 1 Project in the amount of \$834,325.05 with a transfer to the Oakland County Treasurer in the amount of \$92,702.78
6. Present Construction Estimate No. 5 for Clark Construction Company for Construction of the Optimization Phase 1 Project in the amount of \$756,817.69 with a transfer to the Oakland County Treasurer in the amount of \$84,090.85
7. 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 \$239,124.01
8. 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 \$96,817.67
9. Other business
10. Approve pro rata payment to Drainage Board members
11. Adjourn

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

November 26, 2024

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

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

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

David Woodward, Chairperson of the 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.

Change Order No. 3 for Clark Construction Company for Construction of the Optimization Phase I Project for a net increase in the amount of \$36,613.00 was presented. It was moved by Markham, supported by Woodward, to approve Change Order No. 3 for Clark Construction Company for Construction of the Optimization Phase I Project for a net increase in the amount of \$36,613.00 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 \$275,749.50 (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 Maintenance Fund in the amount of \$275,749.50 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 Construction Fund in the amount of \$98,566.14 (as attached) was

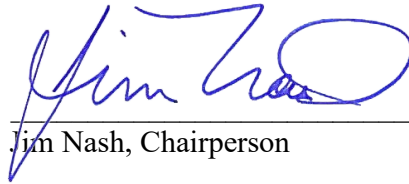
presented. It was moved by Markham, supported by Woodward, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund from the Construction Fund in the amount of \$98,566.14.

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.

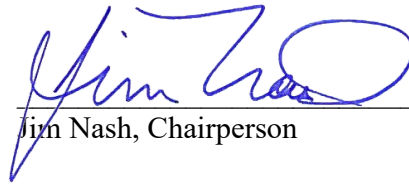


Jim Nash, Chairperson

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 Clinton River Water Resource Recovery Facility, Oakland County, Michigan, held on the 26th day of November 2024, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



Jim Nash, Chairperson

Dated: November 26, 2024

CHANGE ORDER NO. 4

**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
4-1	<p>LOCATION: Clinton River Water Resource Recovery Facility - 1) All Project. 2) East Blvd plant next to Chemical building 3) Biosolids Building 4) Main Electrical building, connecting tunnel and Biosolids building</p> <p>DESCRIPTION (Extra/Add): Contractor to discontinue taking and submitting monthly construction progress photos for the project, per description in attached Work Directive#2 dated August 8, 2024. PCO 008</p> <p>REASON: No need for Contractor duplicating engineer field representative regarding taking and submitting of monthly construction progress photos.</p>	LS	-1.0	\$42,621	---	\$42,621

**JIM NASH
 OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
4-2	<p>DESCRIPTION (Extra/Add): Feed power to the utility panel board for the natural gas generator from the existing panelboard LP-CB in the Chemical Building, per description in attached Work Directive#5 dated August 26, 2024. PCO 016</p>	LS	1.0	\$13,069	\$13,069	---
4-2	<p>REASON: Power connection to the 100A lighting panel for the new natural gas generator at East Boulevard was not specified.</p>					
4-3	<p>DESCRIPTION (Extra/Add): Provide Ground Penetrating Radar (GPR) Scanning to locate utilities and rebar in the wall and floor core locations at the Biosolids Building, per description in attached Clark Construction Claim#3 dated November 25, 2024.</p>	LS	1.0	\$2,680	\$2,680	---
4-3	<p>REASON: Scanning of existing walls and floors in the Biosolids Building prior to coring and installation of process piping was not specified but it is needed to avoid existing embedded piping or pre-stressed strands in the walls & floors.</p>					

Auth No.	Location-Description-Reason	Unit Used	Est. Qty.	Unit Price	Amount Increase	Amount Decrease
4-4	<p>DESCRIPTION (Extra/Add):</p> <p>Change rating for mechanical seals for the steam and condensate system piping to 400°F, per description in attached Work Directive#7 dated September 16, 2024. PCO 007</p> <p>REASON:</p> <p>High temperature rated link seal is needed for steam and condensate lines; whereas normal temperature rated link seal was specified.</p>	LS	1.0	\$16,042	\$16,042	---
Totals					\$31,791	\$42,621
Net Decrease					---	\$10,830

CHANGE ORDER

CHANGE ORDER NO. 4

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: 
Razik Alsaigh, P.E. - WRC Project Engineer

Date: 12/05/2024

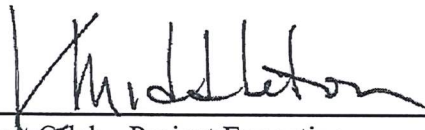
Recommended by: 
Allen Gelderloos, P.E. Consulting Engineer (Jacobs)

Date: 12/5/2024

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

Date: 12/11/2024

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

Accepted by: 
Coli Odeh - Project Executive
Clark Construction Company

Date: 12/5/2024

Approved by: 
Steve Korth, P.E.
Chief Manager

Date: Dec. 12, 2024

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. 4

**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:	\$ 138,141.00
Change Order No. 4 Value	\$ (10,830.00)
Adjusted Contract Value	\$ 30,677,745.00

**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. 4 ✓

Period: October 1, 2024 to October 31, 2024 ✓

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 (none): \$0.00

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

Total Net Change Orders: \$0.00

Adjusted Contract Amount: \$30,550,434.00 ✓

Subtotal To Date: (Sheet 2 of 2 Column 7) \$6,519,196.02

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

Gross Estimate: (Work in Place) 21.34% \$6,519,196.02

Less Amount Reserved: (10% of Gross Estimate) \$651,919.60

Total Amount Allowed To Date: \$5,867,276.42

Less Previous Estimates: \$5,032,951.37 ✓

Net Payment Request To Be Paid To Contractor: \$834,325.05

Reserve Payment to Contractor \$0.00

Balance of Contract To Date \$24,031,237.98 ✓ Accounting Auditor: HDG 11/26/24

Less Previous Transfers To Reserve: \$559,216.82 ✓

Amount of Current Transfer: \$92,702.78

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

Date: 12/05/2024

Recommended by: Allen Gelderloos
Jacobs Consulting Inc - Consulting Engineer

Date: 12/4/2024

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

Date: 12/11/2024

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

Date: _____

Approved by Board on: _____

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



DATE: December 17, 2024

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

Payable To	Ref No.	For	Amount
Home Depot	Pcard	Invoice # WG76103662	\$ 1,052.40
USA Bluebook	Pcard	Invoice # INV00539729	3,515.15
USA Bluebook	Pcard	Invoice # INV00543272	2,259.00
D3W Industries Inc	SINV00305007	Invoice # 4918	5,720.00
D3W Industries Inc	SINV00303755	Invoice # 4895	5,720.00
Haviland Products Company	SINV00303761	Invoice # 523045 - Chemical Treatment	7,518.87
Haviland Products Company	SINV00303765	Invoice # 523241 - Chemical Treatment	6,051.00
Haviland Products Company	SINV00305009	Invoice # 523636 - Chemical Treatment	7,529.02
Haviland Products Company	SINV00305153	Invoice # 523809 - Chemical Treatment	6,051.00
Haviland Products Company	SINV00305157	Invoice # 523948 - Chemical Treatment	3,441.00
Haviland Products Company	SINV00305159	Invoice # 524012 - Chemical Treatment	7,468.06
Haviland Products Company	TBP	Invoice # 524393 - Chemical Treatment	11,525.00
Haviland Products Company	TBP	Invoice # 524428 - Chemical Treatment	7,521.72
MacAllister Machinery Co Inc	SINV00305022	Invoice # PD16765927	736.48
Michigan Department of EGLE	SINV00304823	Invoice # 411279935	13,000.00
Polydyne Inc.	TBP	Invoice # 1884514	38,532.00
PVS Technologies Inc	SINV00305010	Invoice # 368273 - Chemical Treatment	5,389.56
PVS Technologies Inc	SINV00305162	Invoice # 368559 - Chemical Treatment	2,543.64
PVS Technologies Inc	SINV00305678	Invoice # 368721 - Chemical Treatment	6,049.56
Saber Building Services	SINV00305680	Invoice # 45982	1,800.00
Waste Management of Michigan	TBP	Invoice # 8799874-1714-1	1,106.12
Waste Management of Michigan	TBP	Invoice # 8799858-1714-4	1,973.56
Waste Management of Michigan	TBP	Invoice # 8799857-1714-6	1,092.56
Waste Management of Michigan	TBP	Invoice # 0038685-2336-0	44,502.94
		Subtotal	\$ 192,098.64
Jacobs Consultant, Inc	TBP	Invoice # C6A19600-19- Engineering & Survey - Proj # 1-7550	14,949.24
		Subtotal - Project 1-7550	\$ 14,949.24
Hesco	SINV00305019	Invoice # 242632 - Proj # 1-7514	\$ 892.00
Hesco	SINV00305020	Invoice # 242627- Proj # 1-7514	\$ 830.00
		Subtotal - Project 1-7514	\$ 1,722.00
OHM Advisors	TBP	Invoice # 82613 - Professional Services - 11/09/24 Proj # 1-7047	\$ 7,928.75
		Subtotal - Project 1-7047	\$ 7,928.75
Tetra Tech Inc	TBP	Invoice # 52337717 - Contracted Services - Proj # 1-7549	\$ 1,600.00
		Subtotal - Project 1-7549	\$ 1,600.00
Cambi Inc	SINV00305674	Invoice # 609810-SP-047 Proj # 1-3470	\$ 5,909.39
		Subtotal - Project 1-3470	\$ 5,909.39
Actuator Services LLC	SINV00305006	Invoice # 6207- Proj # 1-3492	\$ 7,515.00
Cambi Inc	SINV00305676	Invoice # 609810-SP-048 - Materials - Proj # 1-3492	\$ 7,400.99
		Subtotal - Project 1-3492	\$ 14,915.99
		Grand Total	\$ 239,124.01

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



DATE: December 17, 2024

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

	Ref No.	For	Amount
Jacobs Consultant, Inc	TBP	Invoice # C6A21700-23 - Engineering and Survey - 11/22/24 - Proj # 1-7461	\$ 90,410.89
		Total for Project # 1-7461	\$ 90,410.89
CSM Mechanical	TBP	Invoice # Pay App #4 - Proj #1-2181	\$ 6,406.78
		Total for Project # 1-2181	\$ 6,406.78
		Grand Total	\$ 96,817.67

Chapter 20 Drainage Board Meeting
Regular Meeting – Tuesday, December 17, 2024

8. Augusta Drain

AGENDA

DRAINAGE BOARD FOR THE AUGUSTA DRAIN

December 17, 2024

1. Call meeting to order
2. Approve minutes of meeting of November 26, 2024
3. Public Comments
4. Present Construction Estimate No. 5 for T.R. Pieprzak Co., Inc., for Construction of the Augusta Drain Norton Street Innovation Project in the amount of \$120,803.91 with a transfer to the Oakland County Treasurer in the amount of \$2,098.69
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

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

November 26, 2024

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 26th day of November 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 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 memorandum from Geoff Wilson, P.E. – Chief Engineer, dated November 26, 2024, requesting the Board award the Augusta Drain CWSRF Repairs – Dropfall Structure Reconstruction contract to Trojan Development Co., Inc., contingent upon staff review of all documentation, bonds, and insurance, for the as-bid amount of \$491,112.50, award the Augusta Drain CWSRF Repairs – Storm System Rehabilitation contract to Pamar Enterprises, Inc., contingent upon staff review of all documentation, bonds, and insurance, for the as-bid amount of \$454,587.94. and award the Augusta Drain CWSRF Repairs – Riparian and Vegetative Buffer Strip Improvements contract to Natural Community Services, LLC, contingent upon staff review of all documentation, bonds, and insurance, for the as-bid amount of \$92,429.50 was presented. It was moved by Markham, supported by Woodward, to award the Augusta Drain CWSRF Repairs – Dropfall Structure Reconstruction contract to Trojan Development Co., Inc., contingent upon staff review of all documentation, bonds, and insurance, for the as-bid amount of \$491,112.50, award the Augusta Drain CWSRF Repairs – Storm System Rehabilitation contract to Pamar Enterprises, Inc., contingent upon staff review of all documentation, bonds, and insurance, for the as-bid amount of \$454,587.94. and award the Augusta Drain CWSRF Repairs – Riparian and Vegetative Buffer Strip Improvements contract to Natural Community Services, LLC, contingent upon staff review of all documentation, bonds, and insurance, for the as-bid amount of \$92,429.50 as presented.

ADOPTED: Yeas - 3
Nays - 0

Change Order No. 1 for T.R. Pieprzak Co., Inc., for Construction of the Augusta Drain Norton Street Innovation Project for a net increase in the amount of \$41,973.80 was presented. It was moved by Markham, supported by Woodward, to approve Change Order No. 1 for T.R. Pieprzak Co., Inc., for Construction of the Augusta Drain Norton Street Innovation Project for a net increase in the amount of \$41,973.80 as presented.

ADOPTED: Yeas - 3
Nays - 0

Construction Estimate No. 4 for T.R. Pieprzak Co., Inc., for Construction of the Augusta Drain Norton Street Innovation Project in the amount of \$107,648.64 was presented. It was moved by Markham, supported by Woodward, to approve Construction Estimate No.4 for T.R. Pieprzak Co., Inc., for Construction of the Augusta Drain Norton Street Innovation Project in the amount of \$107,648.64 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 \$48,196.92 (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 \$48,196.92.

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.

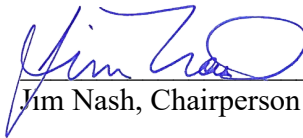


Jim Nash, Chairperson

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 Augusta Drain, Oakland County, Michigan, held on the 26th day of November 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 Augusta Drain Drainage District.




Jim Nash, Chairperson

Dated: November 26, 2024


**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**

Construction Estimate No.:	5 ✓	11/1/2024 thru 11/30/2024	✓
Department No.:	6010101	Account No.:	730373
Fund No.:	FND82495	Program No.:	149015
Project No.:	PRJ-17215	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 48054	Completion Date:	6/30/2025

Original Contract Amount:		\$	852,612.88
Previous Change Order Numbers (none):		\$	-
Change Orders This Estimate (Change Order No.1):		\$	41,973.80
Total Net Change Orders:		\$	41,973.80
Adjusted Contract Amount:		\$	894,586.68 ✓
<hr/>			
Subtotal To Date: (Sheet 4 of 4, Column 8)		\$	702,717.26
Less Deductions To Date (Sheet 4 of 4, Column 8)		\$	-
Gross Estimate: (Work in Place)	79%	\$	702,717.26
Less Amount Reserved: (5% of Adjusted Contract Amount)		\$	44,729.33
Total Amount Allowed To Date:		\$	657,987.93
Less Previous Estimates:		\$	537,184.02 ✓
Net Payment Request To Be Paid To Contractor:		\$	120,803.91
Reserve Payment to Contractor:		\$	-
Balance of Contract To Date:	✓	\$191,869.42	Accounting Auditor: HDG 12/6/24
<hr/>			
Less Previous Transfers To Reserve:		\$	42,630.64 ✓
Amount of Current Transfer:		\$	2,098.69

Prepared By:  Date: 12/9/2024
 Jen Cook, P.E. - Project Engineer (WRC)

Recommended By: John V. Balint Digitally signed by John V. Balint
 DN: C=US, E=jbalint@hrcenr.com, O=Hubbell,
 Roth and Clark, Inc., CN=John V. Balint
 Date: 2024.12.09 10:47:09-05'00' Date: 12/9/2024
 John Balint, P.E. - Consulting Engineer (HRC)

Approved By:  Date: 12/11/2024
 Joel Brown, P.E. - Chief Engineer (WRC)

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

Construction Estimate No. 05		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous	Total Quantity To Date	Total Amount To Date	Total Amount This Payment
1	Permit Allowance	5,000	Dlr	\$ 1.00	4,550.00	0	4,550.00	\$ 4,550.00	\$ 4,550.00
2	Mobilization (Max 5%)	1	Lsum	\$ 55,000.00		1	1	\$ 55,000.00	\$ -
3	Tree, Rem, Less than 6 inch	3	Ea	\$ 250.00		3	3	\$ 750.00	\$ -
4	Tree, Rem, 6 inch to 18 inch	16	Ea	\$ 600.00		18	18	\$ 10,800.00	\$ -
5	Tree, Rem, 19 inch to 36 inch	12	Ea	\$ 1,300.00		18	18	\$ 23,400.00	\$ -
6	Curb and Gutter, Rem	80	Ft	\$ 35.00	80	0	80	\$ 2,800.00	\$ 2,800.00
7	Spillway, Rem	1	Ea	\$ 840.00		2	2	\$ 1,680.00	\$ -
8	Retaining Wall, Rem	1	Lsum	\$ 1,400.00		1	1	\$ 1,400.00	\$ -
9	Structures, Rem Portions (Foundation Walls)	500	Cyd	\$ 23.60		160	160	\$ 3,776.00	\$ -
10	Site Grading	1.89	Ac	\$ 102,436.00		1.89	1.89	\$ 193,604.04	\$ -
11	Excavation, Earth	150	Cyd	\$ 37.50		150	150	\$ 5,625.00	\$ -
12	Erosion Control, Silt Fence	1,252	Ft	\$ 2.30		1,275	1,275	\$ 2,932.50	\$ -
13	Erosion Control, Inlet Protection, Fabric Drop	15	Ea	\$ 143.00		11	11	\$ 1,573.00	\$ -
14	Erosion Control, Gravel Access, Approach	1	Ea	\$ 2,730.00		0	0	\$ -	\$ -
15	Aggregate Base, 6 inch (Path)	1,380	Syd	\$ 26.30	345	690	1,035	\$ 27,220.50	\$ 9,073.50
16	Aggregate Surface Cse, 4 inch	1,105	Syd	\$ 20.00		0	0	\$ -	\$ -
17	Sewer, Cl A, 12 inch, Tr Det A	137	Ft	\$ 81.00		137	137	\$ 11,097.00	\$ -
18	Sewer End Sect, HDPE, 12 inch	2	Ea	\$ 407.00		0	0	\$ -	\$ -
19	Trench Undercut and Backfill (As Needed)	5	Cyd	\$ 95.00		0	0	\$ -	\$ -
20	Outlet Control Structure, HDPE, 24 inch dia.	2	Ea	\$ 4,150.00		2	2	\$ 8,300.00	\$ -
21	Curb Cut Inlet	8	Ea	\$ 980.00	8	0	8	\$ 7,840.00	\$ 7,840.00
22	Fence, Protective (As Needed)	100	Ft	\$ 7.00		0	0	\$ -	\$ -
23	Minor Traffic Devices and Traf Regulator Control	1	Lsum	\$ 10,830.00		0.5	0.5	\$ 5,415.00	\$ -
24	Riprap, Plain	22	Syd	\$ 140.00		0	0	\$ -	\$ -
25	One-Year Vegetation Maintenance and Guarantee	1	Lsum	\$ 88,938.00		0	0	\$ -	\$ -
26	Respreding of Existing Soils, 4 inch	731	Cyd	\$ 23.00		731	731	\$ 16,813.00	\$ -
27	Compost for Amended In-Place Soils	206	Cyd	\$ 48.00	41	165	206	\$ 9,888.00	\$ 1,968.00
28	Shrubs, Deciduous	259	Ea	\$ 94.00	78	182	260	\$ 24,440.00	\$ 7,332.00
29	Trees, 2.5 inch caliper, Deciduous Canopy	29	Ea	\$ 552.00	15	1	16	\$ 8,832.00	\$ 8,280.00
30	Trees, 2 inch caliper, Ornamental	16	Ea	\$ 404.00	6	3	9	\$ 3,636.00	\$ 2,424.00

JIM NASH

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

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

Construction Estimate No. 05		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous	Total Quantity To Date	Total Amount To Date	Total Amount This Payment
31	Perennial Mix (Quart), 18 inches o.c.	2,111	Ea	\$ 4.88	186	1,559	1,745	\$ 8,515.60	\$ 907.68
32	Ledge Rock	29.5	Ton	\$ 800.00		29.5	29.5	\$ 23,600.00	\$ -
33	Cobbles, 12 inch to 18 inch (Gravel Bands)	66	Ton	\$ 400.00	29.01	36.99	66.00	\$ 26,400.00	\$ 11,604.00
34	Washed Stone, 5 inch (Gravel Bands)	36	Ton	\$ 350.00		36.95	36.95	\$ 12,932.50	\$ -
35	Flagstone (Creek Bed)	5,105	Sft	\$ 17.72		4,661	4,661	\$ 82,592.92	\$ -
36	Weed Barrier Control	2,052	Syd	\$ 1.50		652	652	\$ 978.00	\$ -
37	Seeded Turf Lawn	3,508	Syd	\$ 2.40	133	0	133	\$ 319.20	\$ 319.20
38	Sedge and Grass Seed Mix	1,808	Syd	\$ 8.67	1,086	214	1,300	\$ 11,271.00	\$ 9,415.62
39	Stormwater Native Seed Mix	2,135	Syd	\$ 9.30	968	0	968	\$ 9,002.40	\$ 9,002.40
40	Prairie Seed Mix	5,687	Syd	\$ 1.60	4,552	568	5,120	\$ 8,192.00	\$ 7,283.20
41	Clearing and Grubbing	301	Cyd	\$ 14.10		200	200	\$ 2,820.00	\$ -
42	Sewer, 4-inch HDPE	42	Ft	\$ 39.07		42	42	\$ 1,640.94	\$ -
43	Sewer, 4-inch HDPE Perforated with Sock (Backfill w/ 2NS Sand)	849	Ft	\$ 41.34		849	849	\$ 35,097.66	\$ -
44	Cleanout, 4-inch HDPE	4	Ea	\$ 545.00		4	4	\$ 2,180.00	\$ -
45	Imported Soil (As Needed)	150	Cyd	\$ 38.00		150	150	\$ 5,700.00	\$ -
46	Concrete Foundation, End Section	2	Ea	\$ 4,000.00		0	0	\$ -	\$ -
47	Seal Wall at Overflow (Painted-On Concrete Sealer)	2	Ea	\$ 1,250.00	2	0	2	\$ 2,500.00	\$ 2,500.00

Change Orders No.1

A	Tree, Rem, 6 inch to 18 inch	2	Ea	\$ 600.00	N/A	N/A	N/A	N/A	N/A
B	Tree, Rem, 19 inch to 36 inch	6	Ea	\$ 1,300.00	N/A	N/A	N/A	N/A	N/A
C	Spillway, Rem	1	Ea	\$ 840.00	N/A	N/A	N/A	N/A	N/A
D	Structures, Rem Portions (Foundation Walls)	-340	Cyd	\$ 23.60	N/A	N/A	N/A	N/A	N/A
E	Erosion Control, Silt Fence	23	Ft	\$ 52.90	N/A	N/A	N/A	N/A	N/A
F	Erosion Control, Inlet Protection, Fabric Drop	-2	Ea	\$ 143.00	N/A	N/A	N/A	N/A	N/A
G	Erosion Control, Gravel Access Approach	-1	Ea	\$ 2,730.00	N/A	N/A	N/A	N/A	N/A
H	Sewer End Sect, HDPE, 12 inch	-2	Ea	\$ 407.00	N/A	N/A	N/A	N/A	N/A
I	Riprap, Plain	-22	Syd	\$ 140.00	N/A	N/A	N/A	N/A	N/A
J	Clearing and Grubbing	-101	Cyd	\$ 14.10	N/A	N/A	N/A	N/A	N/A
K	Concrete Foundation, End Section	-2	Ea	\$ 4,000.00	N/A	N/A	N/A	N/A	N/A
L	Spillway, Conc	2	Ea	\$ 5,947.00	2	0	2	\$ 11,894.00	\$ 11,894.00
M-1	Curb and Gutter, Rem	44	Ft	\$ 35.00	44	0	44	\$ 1,540.00	\$ 1,540.00

JIM NASH
OAKLAND COUNTY WATER RESOURCES COMMISSIONER

**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**

Construction Estimate No. 05		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Contract Item	Bid Quantity	Unit	Unit Price	Quantity This Payment	Total Quantity Previous	Total Quantity To Date	Total Amount To Date	Total Amount This Payment
M-2	Sidewalk, Rem	133	Syd	\$ 15.00	133	0	133	\$ 1,995.00	\$ 1,995.00
M-3	Modified	12	Syd	\$ 75.00	12	0	12	\$ 900.00	\$ 900.00
M-4	Modified	1,118	Sft	\$ 13.00	1,118	0	1,118	\$ 14,534.00	\$ 14,534.00
M-5	Modified	97	Sft	\$ 20.00	97	0	97	\$ 1,940.00	\$ 1,940.00
M-6	Detectable Warning Surface	15	Ft	\$ 100.00	15	0	15	\$ 1,500.00	\$ 1,500.00
M-7	Curb Ramp Opening	44	Ft	\$ 75.00	44	0	44	\$ 3,300.00	\$ 3,300.00
N	Drain Cleaning	1	Lsum	\$ 18,836.00	N/A	N/A	N/A	N/A	N/A

Stored Materials:

Deductions:

Total Amount To-Date: \$ 665,114.26
 Total Amount This Estimate: \$ 85,299.60

 Change Orders To-Date: \$ 37,603.00
 Change Orders This Estimate: \$ 37,603.00

 Stored Materials To-Date: \$ -
 Stored Materials This Estimate: \$ -

 Subtotal To-Date: \$ 702,717.26
 Subtotal This Estimate: \$ 122,902.60

 Deductions To-Date: \$ -
 Deductions This Estimate: \$ -

 Gross Payment This Estimate: \$ 122,902.60
 Less Transfer to Reserve: \$ 2,098.69

 Net Payment This Estimate: \$ 120,803.91

9. Rufe Collier Drain

AGENDA

DRAINAGE BOARD FOR THE RUFÉ COLLIER DRAIN

December 17, 2024

1. Call meeting to order
2. Approve minutes of meeting of August 27, 2024
3. Public Comments
4. Present 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
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

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

August 27, 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 27th day of August 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

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

Minutes of the meeting held April 26, 2022, were presented for consideration. It was moved by Woodward, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2
Nays - 0

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


A memorandum from Taylor Warstler, Civil Engineer II, dated August 27, 2024, requesting the Board receive and file the project overview of the Pontiac Urban Wetland Restoration was presented. It was moved by Woodward, supported by Nash, to receive and file the project overview of the Pontiac Urban Wetland Restoration as presented.

ADOPTED: Yeas - 2
Nays - 0

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

ADOPTED: Yeas - 2
Nays - 0

There being no further business, the meeting was adjourned.

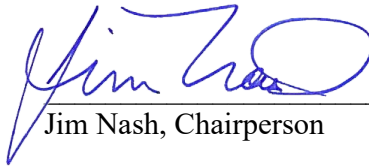


Jim Nash, Chairperson

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 Rufe Collier Drain, Oakland County, Michigan, held on 27th day of August 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: August 27, 2024

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

TO: Jim Nash, Chairperson of the Rufe Collier Drain Drainage Board

FROM: Taylor Warstler, Civil Engineer II

SUBJECT: Pontiac Urban Wetland Restoration Project – Grant Funding Acceptance

DATE: December 17, 2024

In August, on behalf of the Rufe Collier Drain Drainage District, staff submitted a grant application to Ducks Unlimited, a nonprofit organization dedicated to the conservation of wetlands and associated upland habitats for waterfowl and other wildlife. The request sought funding for the design and construction of the Pontiac Urban Wetland Restoration Project. The project encompasses the restoration of approximately 62 acres of urban wetlands and more than 1.3 miles of the Rufe Collier and Bartlett Drains. The upstream portion of the project begins in Murphy Park, just east of MLK Jr. Boulevard and follows the Rufe Collier and Bartlett Drains to the culvert crossing at Opdyke Road. Currently, the City of Pontiac owns 107 acres in the project area dedicated to Murphy Park. The rest of the project area is contained within two wetland conservation easements.

Ducks Unlimited, through its Wetland Conservation Program, granted \$425,349 for the design of the project and \$504,500 for the construction of one of two project phases. The project is intended to benefit the Bartlett Drain Drainage District, a Chapter 4 Drain, the Rufe Collier Drain Drainage District, a Chapter 20 Drain, as well as adjacent properties. The Rufe Collier Drain Drainage District will be administering these funds for the design of this project.

The project has been separated into two construction phases with the opportunity for the following project outcomes:

- i. 62 acres of wetland restoration
- ii. 1.3 miles of stream restoration
- iii. Increased recreation and trail use for a disadvantaged community
- iv. Connecting the local Murphy Park trail system with the regional Clinton River Trail
- v. Water quality improvement to the Clinton River
- vi. Mitigate flooding issues on Opdyke Road
- vii. Increase climate resilience by providing more stormwater storage in the wetland

A few months ago, proposals were solicited from three professional engineering firms to design the project. Drummond Carpenter, PLLC, an environmental engineering firm specializing in water resources engineering and research, was selected based on its award-winning project experience, its understanding of the project, and its highly qualified staff. The grant request does not require any match and will cover most of the staff's time.

Requested Action: 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.

10. Jacobs Drain

AGENDA

DRAINAGE BOARD FOR THE JACOBS DRAIN

December 17, 2024

1. Call meeting to order
2. Approve minutes of meeting of August 27, 2019
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 \$775.00
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

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

August 27, 2019

A meeting of the Drainage Board for the Jacobs Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 27th day of August, 2019.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

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

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

Minutes of the meeting held February 27, 2018 were presented for consideration. It was moved by Zack, 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 Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$25,584 for the Jacobs Drain (as attached) were presented. It was moved by Zack, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$25,584 as presented.

ADOPTED: Yeas - 2
Nays - 0

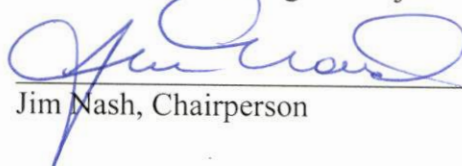
A request for reimbursement of the Drain Revolving Fund in the amount of \$19.38 (as attached) was presented. It was moved by Zack, supported by Nash, to reimburse the Drain Revolving Fund in the amount of \$19.38 as presented.

ADOPTED: Yeas - 2
Nays - 0

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

ADOPTED: Yeas - 2
Nays - 0

There being no further business, the meeting was adjourned.

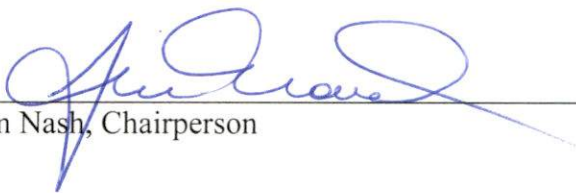


Jim Nash, Chairperson

STATE OF MICHIGAN)
)SS.
COUNTY OF OAKLAND)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Jacobs Drain, Oakland County, Michigan, held on the 27th day of August, 2019, 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 of the Jacobs Drain Drainage District.



Jim Nash, Chairperson

Dated: September 4th, 2019

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

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting



DATE: December 17, 2024

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

Ref No.	Paid To	For	Amount
TBP	Wash Tech LLC	Exterior Building Washing	\$ 775.00
			<u>\$ 775.00</u>

11. Joseph Jones Drain

AGENDA

DRAINAGE BOARD FOR THE JOSEPH JONES DRAIN

December 17, 2024

1. Call meeting to order
2. Approve minutes of meeting of October 22, 2024
3. Public Comments
4. 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 \$21,250.92
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE JOSEPH JONES DRAIN**

October 22, 2024

A meeting of the Drainage Board for the Joseph Jones Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 22nd day of October 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 request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$58,811 (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 \$58,811.

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 Joseph Jones Drain, Oakland County, Michigan, held on the 22nd day of October 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 Joseph Jones Drain Drainage District.



Jim Nash, Chairperson

Dated: October 22, 2024

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the JOSEPH JONES DRAIN - (Construction Fund)

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting



DATE: December 17, 2024

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

Ref No.	Paid To	For	Amount
SINV00305677	Drummond Carpenter PLLC	Invoice # 5129 - Contracted Services - Proj 1-7603	\$ 10,975.20
SINV00305681	Drummond Carpenter PLLC	Invoice # 5188 - Contracted Services - Proj 1-7603	243.00
SINV00301937	Maplepress	Invoice # 153045 - Contracted Services - Proj 1-7603	656.50
		Total Project 1-7603	\$ 11,874.70
SINV00301937	Maplepress	Invoice # 153045 - Contracted Services - Proj 1-7604	\$ 656.50
SINV00305673	Geosyntec Consultants of Michigan	Invoice # 422592388 - Contracted Services - Proj 1-7604	6,544.36
SINV00305672	Geosyntec Consultants of Michigan	Invoice # 187575911 - Contracted Services - Proj 1-7604	2,175.36
		Total Project 1-7604	\$ 9,376.22
		Grand Total	\$ 21,250.92

12. Minnow Pond Drain

AGENDA

DRAINAGE BOARD FOR THE MINNOW POND DRAIN

December 17, 2024

1. Call meeting to order
2. Approve minutes of meeting of March 26, 2024
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$775.00
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD
FOR THE MINNOW POND DRAIN**

March 26, 2024

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

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

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

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

Minutes of the meeting held August 22, 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.

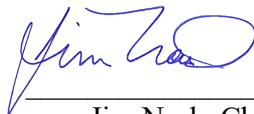
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$4,253.31 (as attached) was presented. It was moved by Markham, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$4,253.31.

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 - 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 Minnow Pond Drain, Oakland County, Michigan, held on the 26th day of March 2024, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



Jim Nash, Chairperson

Dated: March 26, 2024

MEMO TO: Mr. Jim Nash, Chairman
of the Drainage Board for the MINNOW POND DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services
OCWRC Accounting



DATE: December 17, 2024

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

<u>Ref</u> <u>No.</u>	<u>Paid To</u>	<u>For</u>	<u>Amount</u>
TBP	Wash Tech LLC	Exterior Building Washing	\$ 775.00
		Grand Total	\$ 775.00

13. Northwest Oakland Sanitary Sewer Drain

AGENDA

DRAINAGE BOARD FOR THE NORTHWEST OAKLAND SANITARY SEWER DRAIN

December 17, 2024

1. Call meeting to order
2. Approve minutes of meeting of November 26, 2024
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 \$73,695.38
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**

November 26, 2024

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 26th day of November 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 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 \$1,540.00 (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 \$1,540.00.

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.

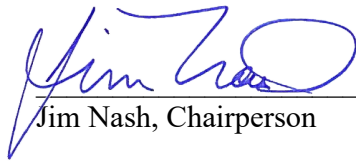


Jim Nash, Chairperson

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 26th day of November 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 Northwest Oakland Sanitary Sewer Drain Drainage District.



Jim Nash, Chairperson

Dated: November 26, 2024

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



DATE: December 17, 2024

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

Ref No.	Paid To	For	Amount
TBP	ROWE Professional Services Company	Invoice # 115686 & 116059 - 10/31/24 - Prj # 1-7469	\$ 73,695.38
		Total Project 1-7469	\$ 73,695.38
		Grand Total	\$ 73,695.38