

**NOTICE OF MEETINGS**  
**DRAINAGE BOARD FOR THE FOLLOWING DRAINS:**

1. Acacia Park CSO Drain
2. Birmingham CSO Drain
3. Bloomfield Village CSO Drain
4. Clinton River Water Resource Recovery Facility
5. George W. Kuhn Drain
6. Evergreen- Farmington Sanitary Drain
7. Brooklyn Relief Drain
8. Gronkowski Drain
9. Horton Drain
10. Jensen Drain
11. Jilbert Drain
12. Oaks Drain
13. Palmer Drain
14. Sue Ann Douglas Drain
15. Wagner Drain
16. Wolf Drain
17. 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 2:00 P.M., ON **TUESDAY, FEBRUARY 28, 2023**, TO CONDUCT NECESSARY AND APPROPRIATE BUSINESS OF THE DRAIN BOARDS. THOSE THAT 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](mailto:LAJDZIAKS@OAKGOV.COM). PERSONS WITH DISABILITIES THAT NEED ASSISTANCE PARTICIPATING IN THE MEETING SHOULD CONTACT STEPHANIE LAJDZIAK AT [LAJDZIAKS@OAKGOV.COM](mailto:LAJDZIAKS@OAKGOV.COM).

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

Posted by: February 21, 2023

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**Chapter 20 Drainage Board Meeting**  
Regular Meeting – Tuesday, February 28, 2023

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**1. Acacia Park CSO**

## **AGENDA**

### **DRAINAGE BOARD FOR THE ACACIA PARK CSO DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of January 24, 2023
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 \$54,900.96
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**

January 24, 2023

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 24<sup>th</sup> day of January 2023.

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 December 13, 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 request for reimbursement of the Evergreen Farmington Fund in the amount of \$307,736.22 (as attached) was presented. It was moved by Woodward, supported by Nash, to approve the reimbursement of the Evergreen Farmington Fund in the amount of \$307,736.22.

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 \$18,531.05 (as attached) was presented. It was moved by Woodward, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$18,531.05.

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.

A handwritten signature in blue ink, appearing to read "Jim Nash". The signature is stylized with a large, looping "N" and a trailing flourish.

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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 24<sup>th</sup> day of January 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



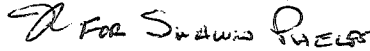
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Jim Nash, Chairperson

Dated: January 24, 2023

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: February 28, 2023

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices  
for the period ending February 17, 2023

G/L Date	Ref No.	Paid To	For	Amount
2/6/2023	V # SINV00159691	ICS Integration Services LLC	Invoice # 2582 - Contracted Services	\$ 2,899.08
2/12/2023	V # SINV00161621	JCI Jones Chemicals Inc	Invoice # 906096 - Chlorination Supplies	8,424.88
			Total	<u>\$ 11,323.96</u>
2/6/2023	V # SINV00159742	ICS Integration Services LLC	Invoice # 2481 - Contracted Services	\$ 1,700.00
			Project # 1-3463 Total	<u>\$ 1,700.00</u>
2/6/2023	V # SINV00159742	ICS Integration Services LLC	Invoice # 2481 - Contracted Services	\$ 3,060.00
			Project # 1-3467 Total	<u>\$ 3,060.00</u>
1/30/2022	V # SINV00158215	Great Lakes Pump & Supply Company	Invoice # 70749 - Material and Supplies	\$ 38,817.00
			Project # 1-6104 Total	<u>\$ 38,817.00</u>
			Grand Total	<u>\$ 54,900.96</u>

## **2. Birmingham CSO**

## **AGENDA**

### **DRAINAGE BOARD FOR THE BIRMINGHAM CSO DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of January 24, 2023
3. Public Comments
4. Present Memorandum from Leslie Maes, Operations Engineer, dated February 28, 2023, requesting the Board approve the Generator and Automatic Transfer Switch Replacement capital improvement project for the budgeted amount of \$250,000 and award engineering services to Sigma Associated for the not-to-exceed amount of \$16,490
5. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$70,997.58
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn

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

January 24, 2023

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 24<sup>th</sup> day of January 2023.

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 October 25, 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 request for reimbursement of the Evergreen Farmington Fund in the amount of \$317,813.25 (as attached) was presented. It was moved by Woodward, supported by Nash, to approve the reimbursement of the Evergreen Farmington Fund in the amount of \$317,813.25.

ADOPTED: Yeas - 2  
Nays - 0

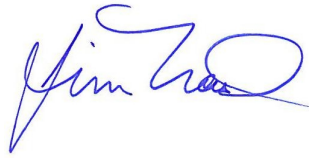
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$112,841.95 (as attached) was presented. It was moved by Woodward, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$112,841.95.

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.



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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 24<sup>th</sup> day of January 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



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Jim Nash, Chairperson

Dated: January 24, 2023

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

**TO:** Jim Nash, Chairman  
Birmingham CSO Drainage Board

**FROM:** Lesli Maes, Operations Engineer

**SUBJECT:** Birmingham Retention Treatment Basin  
Generator and Automatic Transfer Switch Replacement Project

**DATE:** February 28, 2023

The Birmingham Retention Treatment Basin facility is equipped with a generator in case of power failure at the site. During recent operation, the generator suffered a mechanical failure. Repair efforts have been made but unfortunately, multiple parts needed are obsolete and unavailable.

WRC staff requests approval of a project to replace the existing generator and associated automatic transfer switch which have both reached the end of their useful life. The total cost for this project is estimated at \$250,000.

To kick-off this project, we recommend awarding engineering services to Sigma Associates for the not-to-exceed amount of \$16,490 per the attached proposal and the terms of their existing contract with the County.

**Board Action Requested:**

**Approve the Birmingham RTB Generator and Automatic Transfer Switch Replacement capital improvement project for the budgeted amount of \$250,000 and award engineering services to Sigma Associates for the not to exceed amount of \$16,490.**





**Sigma Associates, Inc.**  
30200 Telegraph Road  
Suite 240  
Bingham Farms, MI 48025

Tel. 313.963.9700  
Fax. 313.963.7626

[www.sigmaassociates.com](http://www.sigmaassociates.com)

February 1, 2023

Lesli Maes  
OCWRC Operations Engineer  
1 Public Works Drive  
Building 95 West  
Waterford, MI 48328

**Subject: Proposal for Birmingham Retention Treatment Basin (RTB) Replacement Generator Design for Oakland County Water Resources Commissioner's Office (OCWRC)**

Dear Lesli:

Per our recent discussions and emails, Sigma is pleased to submit this proposal to develop design documents to replace the Birmingham Retention Treatment Basin (RTB) permanent generator and replace/add related transfer switches as outlined below. These proposed services will improve station reliability and add flexibility during utility power outages.

## **BACKGROUND**

The Oakland County WRC operates and maintains many pumping stations. This includes the Birmingham RTB site located 700 Linden Rd. in Birmingham for which OCWRC has determined that the generators and automatic transfer switches (ATS) there need to be replaced soon, with the addition of a new manual transfer switch (MTS). Reliable backup power is necessary to properly operate the station.

## **SCOPE OF WORK**

For purposes of developing a budget for the design, Sigma anticipates and bases this scope of work on the following Sigma activities:

1. Conduct and participate in site visits, including one on-site discussion as a kick-off.
2. Review site relevant documents obtained from OCWRC.
3. Base design on an intermittent-duty, natural gas-fed, Cummins generator connected to a new automatic transfer switch (ATS) and existing loads, along with a new manual transfer switch (MTS) directly connected to MCC-2.
4. Include proper removal and disposal of existing generator and all other related materials during a 2-phase construction. Design for installation of the MTS as a second construction phase.
5. Conduct virtual design review meetings with OCWRC after 50% and after pre-final submission.
6. Develop drawings with specifications at the 50%, pre-final, and final milestones, and construction cost estimate at final.
7. Use existing methods for foundation/mounting.
8. Include contractor proper reconnection to the existing generator exhaust.
9. Review bidder questions and develop responses to technical questions; develop adjusted drawings and specifications as needed.
10. Prepare conformed contract documents including any adjustments to the design per the bidder questions.



## ASSUMPTIONS

To develop the scope and budget for the project, Sigma has assumed the following:

1. Available site information will be provided by OCWRC. OCWRC personnel will be available for site investigation.
2. During the investigation, OCWRC personnel will open panels to allow Sigma to observe details required for proper design.
3. Any required easement information will be provided by OCWRC.
4. No survey work, detailed structural design, or additional geotechnical testing is included in this proposal. If OCWRC has geotechnical work done or structural information for the site, Sigma will include such information on a drawing in the design set.

## SCHEDULE AND COMPLETION MILESTONES

Sigma is available immediately to begin work. Sigma proposes the following schedule:

- Kick-off meeting during field visit within four weeks from notice to proceed.
- Detailed design bid documents to OCWRC within 12 weeks after receipt of any required OCWRC information and site visit.
- Answers (and adjustments to documents if required) within 2 weeks of bidders' questions.
- Conformed set within 1 week after contractor selected.

## DELIVERABLES

Sigma will provide and deliver the following during this project:

1. Kickoff/Site visit, 50%, and pre-final review meeting participation.
2. PDFs of 50% and pre-final versions of the design drawings with specifications.
3. Final bid packages as a .PDF. AutoCAD files available upon request.
4. Participation in pre-bid meeting, and review and comment on OCWRC-produced minutes of meeting.
5. Adjustments and answers for bidder questions.
6. Conformed construction plans and specifications sets provided to OCWRC as a .PDF.

## FEE

Sigma will complete the work, as defined above, at an overall, not-to-exceed of \$16,490 billed as time and materials. Refer to the summary table below for scope activities with related budget estimates, and a total not to exceed cost.

#	ACTIVITY DESCRIPTION	COST
1	Kick-off at site visit, design review meetings, scheduling, and management	\$3,565
2	50% design	\$5,470
3	Pre-final design	\$3,290
4	Final design	\$2,110
5	Bidder questions' answers and adjustments delivered to OCWRC	\$1,180
6	Issue conformed for-construction plans and specifications	\$875
	<b>TOTAL NOT TO EXCEED COST</b>	<b>\$16,490.00</b>



We look forward to working with you on these important and beneficial services. We are eager to start this work after your notice to proceed. If you have any questions, please do not hesitate to contact us at (313) 963-9700.

Best Regards,

**SIGMA ASSOCIATES, INC.**

A handwritten signature in black ink, appearing to read "Joe Springer", is written over a light gray rectangular background.

Joe Springer, P.E.

CC: Adnan Issa  
File

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

FROM: Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting

*SV For Shawn Phelps*

DATE: February 28, 2023

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices for the period ending February 17, 2023

<u>G/L Date</u>	<u>Ref No.</u>	<u>Paid To</u>	<u>For</u>	<u>Amount</u>
V # SINV00161620	JCI Jones Chemicals Inc	Invoice # 906095 - Chlorination Supplies		\$ 8,675.24
			<b>Sub Total</b>	<b>\$ 8,675.24</b>
V # SINV00159689	ICS Integration Services LLC	Invoice # 2484 - Contracted Services - Proj 1-3499		\$ 2,499.00
			<b>Sub Total - Project # 1-3499</b>	<b>\$ 2,499.00</b>
V # SINV00158214	Great Lakes Pump & Supply Company	Invoice # 70726 - Material and Supplies - Proj 1-6095		\$ 32,641.00
			<b>Sub Total - Project # 1-6095</b>	<b>\$ 32,641.00</b>
V # SINV00161582	GWF USA Inc	Invoice # INV-0010 - Contracted Services - Proj 1-3196		\$ 23,255.34
	TBP ICS Integration Services LLC	Invoice # 2583 - Contracted Services - Proj 1-3196		3,570.00
	TBP ICS Integration Services LLC	Invoice # 2629 - Contracted Services - Proj 1-3196		357.00
			<b>Sub Total Project # 1-3196</b>	<b>\$ 27,182.34</b>
			<b>Total</b>	<b>\$ 70,997.58</b>

### **3. Bloomfield Village CSO**

## **AGENDA**

### **DRAINAGE BOARD FOR THE BLOOMFIELD VILLAGE CSO DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of January 24, 2023
3. Public Comments
4. Closed Session as permitted under section 8(h) of the Open Meetings Act and which is exempt from public disclosure as subject to the attorney-client privilege pursuant to section 13(1)(g) of the Freedom of Information Act
5. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$28,189.90
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn



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

January 24, 2023

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 24<sup>th</sup> day of January 2023.

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 December 13, 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 request for reimbursement of the Evergreen Farmington Fund in the amount of \$415,132.47 (as attached) was presented. It was moved by Woodward, supported by Nash, to approve the reimbursement of the Evergreen Farmington Fund in the amount of \$415,132.47.

ADOPTED: Yeas - 2  
Nays - 0

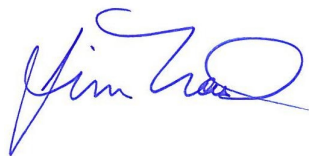
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$212,097.21 (as attached) was presented. It was moved by Woodward, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$212,097.21.

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.



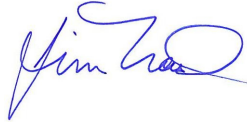
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Jim Nash, Chairperson

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 24<sup>th</sup> day of January 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



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Jim Nash, Chairperson

Dated: January 24, 2023

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

FROM: Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting

*FOR SHAWN PHELPS*

DATE: February 28, 2023

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices for the period ending February 17, 2023

G/L Date	Ref No.	Paid To	For	Amount
2/6/2023	V # SIN00159692	Michigan CAT/MacAllister Machinery	Invoice # SD14423179 - Contracted Services	\$ 1,406.00
2/6/2023	V # SIN00159932	Applied Science Inc	Invoice # 8097 - Contracted Services	1,600.00
			<b>Total</b>	<b>\$ 3,006.00</b>
2/12/2023	V # SIN00161580	Dickinson Wright PLLC	Invoice # 1769222 - Legal Services - 12/31/22 - Proj # 1-7077	\$ 553.40
10/28/2022	V # SIN00139776	Joseph & Tamara Jonna	Invoice # - Settlement Jonna 102423 - Proj # 1-7077	\$ 9,187.50
			<b>Project # 1-7077 Subtotal</b>	<b>\$ 9,740.90</b>
2/6/2023	V # SIN00159690	ICS Integration Services LLC	Invoice # 2485 - Contracted Services - Proj 1-3504	\$ 2,618.00
			<b>Project # 1-3504 Subtotal</b>	<b>\$ 2,618.00</b>
	TBP	Systems Specialties	Invoice # 57706 - Material and Supplies	\$ 9,200.00
			<b>Subtotal Project # 1-7068</b>	<b>9,200.00</b>
2/2/2023	V # SIN00159246	Systems Specialties	Invoice # 57530 - Material and Supplies	\$ 3,625.00
			<b>Subtotal Project # 1-7069</b>	<b>3,625.00</b>
			<b>Total</b>	<b>\$ 28,189.90</b>

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

## **AGENDA**

### **DRAINAGE BOARD FOR THE CLINTON RIVER WATER RESOURCE RECOVERY FACILITY**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of January 24, 2023
3. Public Comments
4. Present Memorandum from Razik Alsaigh, P.E., Operations Projects Engineer, dated February 28, 2023, requesting the Board approve the proposed projects and amended project budgets as identified on the tables (attached) using funds from the Major Maintenance and Capital Improvement reserves
5. 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 \$1,320,720.83
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn

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

January 24, 2023

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 24<sup>th</sup> day of January 2023.

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 December 13, 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 request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$578,710.49 (as attached) was presented. It was moved by Woodward, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$578,710.49.

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.



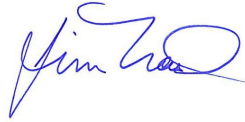
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Jim Nash, Chairperson

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 24<sup>th</sup> day of January 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



---

Jim Nash, Chairperson

Dated: January 24, 2023



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

**TO:** Jim Nash, Chairman  
Clinton River Water Resource Recovery Facility Drainage Board

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

**SUBJECT:** CRWRRF – Major Maintenance and Capital Improvement Projects

**DATE:** February 28, 2023

Annually, the Drainage Board for the Clinton River Water Resources Recovery Facility (CRWRRF) Drainage District approves the Maintenance Assessment Recommendation and Special Assessment Roll for current and future fiscal years. Included in the development of the Maintenance Assessment Recommendation and Special Assessment Roll is the Long-Range Plan (LRP) for both Major Maintenance and Capital Improvement Projects at the facility. Major Maintenance Projects represent the larger maintenance activities required for operation of the plant that are not considered to be a part of the standard, day-to-day operations and maintenance. Capital Improvement Projects include new construction, replacement of existing assets and/or work that extends the useful life of the existing assets.

Operations staff has evaluated the conditions of both the Auburn plant and the East Boulevard plant, which together make up the Clinton River Water Resources Recovery Facility, and compiled the attached project list which includes ongoing projects as well as projects to be initiated for Fiscal Year 2024.

The attached tables provide a list of FY 2022 and 2023 projects that have been previously approved and are currently in-progress. Of the projects in progress, the cells in the “Total Project Budget” column that are highlighted yellow, require a budget amendment to complete the work.

Also included in the tables is a list of proposed FY 2024 projects that have yet to be initiated. These projects would be created at the end of FY 2023, but no expenses would hit the reserve funds until FY 2024.

WRC staff recommends amending the existing project budgets as shown on these tables and initiating the projects for FY 2024.

**Requested Action: Approve the proposed projects and amended project budgets as identified on the attached tables using funds from the Major Maintenance and Capital Improvement reserves.**

**CRWRRF MAJOR MAINTENANCE PROJECTS**

**FY 2022-2023 Projects (in-progress)**

Proj. ID	Total Project Budget	Expenses through FY22	Description	FY23 Projected
-	-	\$0	WWTP Major Maint Unplanned	\$150,000
-	-	\$345,508	CAMP (RIVA)	\$100,270
1-3451	\$80,000	\$37,682	Facilities Repairs	\$40,000
1-3492	\$270,000	\$48,958	Valve & Gate Replacement	\$220,000
1-3243	\$140,000	\$49,500	360 Water Training	\$30,000
1-3517	\$25,000	\$4,528	EB Access Drive Repair	\$20,000
1-3304	\$260,000	\$29,097	CRWRRF Tertiary SCADA (OPTO) Improvements	\$200,000
1-3470	\$55,000	\$27,757	CRWRRF Pump Rebuilds FY2021	\$25,000
1-3525	\$90,000	\$35,169	Rexnord Gear Box Repair	\$50,000
1-7070	\$50,000	\$17,417	Biosolids Management Study	\$32,500
1-7080	\$30,000	\$14,000	Contact Tank investigation & Repair.	\$13,000
1-7085	\$65,000	\$12,890	CRWRRF EB Environmental Site Assessment	\$50,000
1-7127	\$115,000	\$12,000	EB Overhead River Crossings	\$100,000
1-7162	\$115,000	\$11,000	Auburn Primary Clarifiers Floor	\$100,000

**Proposed FY 2024 Projects (to be initiated)**

Proj. ID	Total Project Budget	Description	FY23 Projected
TBD	\$10,000	Electrical Assessments	\$0
TBD	\$10,000	AUB Weir Improvements	\$0
TBD	\$180,000	EB Blower Building Repair	\$0
TBD	\$100,000	MCC Re-location	\$0

**FY 2023 Anticipated Expenses \$1,130,770**

**CRWRRF CAPITAL IMPROVEMENT PROJECTS**

**FY 2022-2023 Projects (in-progress)**

Proj. ID	Total Project Budget	Expenses through FY22	Description	FY23 Projected
-	-	\$0	CRWRRF CIP Unplanned	\$250,000
-	-	\$0	Vehicle and Equipment Replacements	\$220,490
1-3042	\$385,000	\$111,810	EB Aeration Blower 125hp	\$273,200
1-3469	\$270,000	\$115,930	Diffuser Replacement	\$150,000
1-3429	\$250,000	\$158,746	Biosolids Finishing Projects	\$91,254
1-3485	\$55,000	\$28,267	I&C Improvements and Replacements	\$25,000
1-7048	\$200,000	\$25,164	CRWRRF Security Upgrades	\$175,000
1-3455	\$40,000	\$23,347	Lab Equipment	\$15,000
1-7047	\$200,000	\$14,291	Maximum Allowable Headworks Loading (MAHL)	\$10,000
1-3679	\$1,000,000	\$53,879	Auburn Waterline Loop	\$50,000
1-7239	\$5,000,000	\$0	CRWRRF Operational Optimization	\$4,500,000
1-7083	\$55,000	\$0	Strainer (HELLAN) for Plant Water	\$55,000
1-3661	\$55,000	\$0	EB Storage Pump (ProSeal)	\$55,000
1-3662	\$100,000	\$52,420	SRF Project Plans for LARGE CIP Projects	\$2,000
TBD	\$5,000	\$0	Plant Samplers	\$5,000

**Proposed FY 2024 Projects (to be initiated)**

Proj. ID	Total Project Budget	Description	FY23 Projected
TBD	\$75,000	Water Filtration EB Process Water	\$0
TBD	\$180,000	Auburn Blower 50hp	\$0
TBD	\$200,000	Separate Side Stream Treatment	\$0
TBD	\$100,000	WWW Pit Pumps & Piping	\$0
TBD	\$10,000	Vibration Analysis	\$0

**FY 2023 Anticipated Expenses \$5,876,944**

**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 *For SHAWN PHELPS*

**DATE:** February 28, 2023

**SUBJECT:** Request for Approval of Invoices

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

Payable To	Ref No.	For	Amount
Alyko Enterprises LLC	V # SINV00150345	Invoice # 22244 -Uniforms	\$ 1,667.75
CleanNet of Greater Michigan, Inc	V # SINV00157738	Invoice # DET0103502 - Contracted Services - January 2023	1,601.38
CleanNet of Greater Michigan, Inc	TBP	Invoice # DET0104017 - Contracted Services - February 2023	1,601.38
CSM Mechanical LLC	TBP	Invoice # 22-896.1 - Contracted Services	3,757.52
CSM Mechanical LLC	TBP	Invoice # 22-896.2 - Contracted Services	3,757.52
D3W Industrials	V # SINV00161480	Invoice # 3717 - Material and Supplies	5,720.00
Fishbeck, Thompson, Carr & Huber Inc	TBP	Invoice # 419617 - Contracted Services	2,439.00
HOH Water Technology	V # SINV00159240	Invoice # 644373 - Contracted Services	1,814.61
Impact Compliance & Testing Inc	V # SINV00162706	Invoice # 21246 - Contracted Services	4,469.00
Jacobs Consultants, Inc	TBP	Invoice # C6A1600-10 - Engineering Survey -1/6/23 -1/27/23	14,787.37
Jones Chemicals Inc	V # SINV00157697	Invoice # 903839 - Chemical Treatment	6,155.41
Jones Chemicals Inc	TBP	Invoice # 906794 - Chemical Treatment	6,015.04
Jones Chemicals Inc	TBP	Invoice # 906819 - Chemical Treatment	3,266.14
Limbach Company LLC	V # SINV00162704	Invoice # 16764 - Contracted Services	2,916.00
Polydyne Inc	TBP	Invoice # 1714735 - Chemical Treatment	49,038.00
Polydyne Inc	V # SINV00162696	Invoice # 1710177 - Chemical Treatment	30,360.00
Polydyne Inc	TBP	Invoice # 1714165 - Chemical Treatment	48,444.00
PVS Technologies Inc	V # SINV00162700	Invoice # 327123 - Chemical Treatment	2,462.64
PVS Technologies Inc	V # SINV00162698	Invoice # 327493 - Chemical Treatment	4,459.04
PVS Technologies Inc	V # SINV00159589	Invoice # 326396 - Chemical Treatment	4,579.32
PVS Technologies Inc	V # SINV00161486	Invoice # 326594 - Chemical Treatment	2,550.68
PVS Technologies Inc	V # SINV00161491	Invoice # 326595 - Chemical Treatment	4,583.04
PVS Technologies Inc	V # SINV00161485	Invoice # 326397 - Chemical Treatment	2,562.46
PVS Technologies Inc	TBP	Invoice # 328068 - Chemical Treatment	2,761.48
PVS Technologies Inc	TBP	Invoice # 328076 - Chemical Treatment	5,498.16
Paragon Laboratories	V # SINV00161484	Invoice # 104420-234023 - Lab Fees	1,242.00
Rightway Remediation LLC	V # SINV00153477	Invoice # 22-0556 - Contracted Services	1,400.00
State of Michigan	V # SINV00150386	Invoice # 11052112 - NPDES Annual Permit Fees	13,000.00
Tetra Tech Inc	V # SINV00159604	Invoice # 52011868 - Contracted Services	1,360.00
Tetra Tech Inc	TBP	Invoice # 52011867 - Contracted Services	255.00
U.S. Geological Survey	V # SINV00161910	Invoice # 91040631 - Stream Gauge Program - 10/1/22 - 9/30/23	3,096.50
Waste Management	V # SINV00162701	Invoice # 8660480-1714-3- Garbage & Rubbish Disposal	1,386.62
Waste Management	TBP	Invoice # 8660507-1714-3 - Garbage & Rubbish Disposal	1,026.55
Waste Management	V # SINV00157693	Invoice # 8654580-1714-8- Garbage & Rubbish Disposal	1,577.90
Waste Management	V # SINV00157694	Invoice # 8654611-1714-1 - Garbage & Rubbish Disposal	1,399.60
			<b>Subtotal \$ 243,011.11</b>
Jacobs Consultants, Inc	V # SINV00162918	Invoice # C6A21700-1 - Engineering Survey - Proj # 1-7239 11/11/22 - 01/31/23	\$ 981,052.05
			<b>Subtotal - Project 1-7239 \$ 981,052.05</b>
CSM Mechanical LLC	V # SINV00162694	Invoice # 22-435.3 - Project Construction - 01/31/23 - Proj # 1-3042	\$ 75,857.67
			<b>Subtotal - Project 1-3042 \$ 75,857.67</b>
Mark 1 Restoration Services	V # SINV00162950	Invoice # 2201-9- Contracted Services - Proj # 1-3451	\$ 20,800.00
			<b>Subtotal - Project 1-3451 \$ 20,800.00</b>
			<b>Total \$ 1,320,720.83</b>

**5. George W. Kuhn Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE GEORGE W. KUHN DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of January 24, 2023
3. Public Comments
4. Present Memorandum from Jeffrey S. Parrott, Supervisor Right of Way, dated February 28, 2023, requesting the Board authorize the Chairperson to execute easements necessary for the operation and maintenance of improvements associated with the Michigan Department of Transportation Stormwater Pump Station associated with the I-75 Modernization Project
5. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$43,890.33
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn

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

January 24, 2023

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 24<sup>th</sup> day of January 2023.

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 December 13, 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 Joel Kohn, Environmental Planner, dated January 24, 2023, requesting the Board approve \$50,000 for environmental staff to complete sampling work within the Drainage District throughout the 2023 sampling season was presented. It was moved by Woodward, supported by Nash to approve \$50,000 for environmental staff to complete sampling work within the Drainage District throughout the 2023 sampling season as presented.

ADOPTED: Yeas - 2  
Nays - 0

A memorandum from Stephanie Petriello, Environmental Planner, dated January 24, 2023, requesting the Board authorize the Center for Watershed Protection and the Clinton River Watershed Council to commence work outlined in their proposals dated December 20, 2022 and January 10, 2022, respectively, for a not-to-exceed amount of \$45,680 and \$30,189 was presented. It was moved by Woodward, supported by Nash to authorize the Center for Watershed Protection and the Clinton River Watershed Council to commence work outlined in their proposals dated December 20, 2022 and January 10, 2022, respectively, for a not-to-exceed amount of \$45,680 and \$30,189 as presented.

ADOPTED: Yeas - 2  
Nays - 0

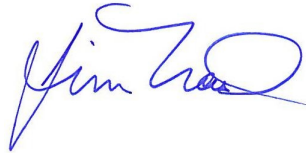
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$194,197.78 (as attached) was presented. It was moved by Woodward, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$194,197.78.

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.



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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 24<sup>th</sup> day of January 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



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Jim Nash, Chairperson

Dated: January 24, 2023



**OAKLAND COUNTY  
WATER RESOURCES COMMISSIONER**

**MEMORANDUM**

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

**FROM:** Jeffrey S. Parrott, Supervisor Right of Way

**SUBJECT:** Dedication of Permanent Easements for Operation and Maintenance of MDOT's Stormwater Pump Station associated with the I-75 Modernization Project

**DATE:** February 28, 2023

The Michigan Department of Transportation (MDOT) has requested permanent easements within property owned by the district for the operation and maintenance of an underground storage pipe and pump station for stormwater management. These facilities are associated with MDOT's I-75 Modernization Project.

The attached easement agreement has been prepared and executed by MDOT to grant the rights necessary to operate and maintain the stormwater management facilities.

**Requested Action: Authorize the chairperson to execute easements necessary for the operation and maintenance of improvements associated with this MDOT project.**

## EASEMENT AGREEMENT

**KNOW ALL MEN BY THESE PRESENTS**, that **GRANTOR**, the **GEORGE W. KUHN DRAIN DRAINAGE DISTRICT** (“Drainage District”), a Michigan Statutory Corporation, acting through the Drainage Board for the **GEORGE W. KUHN DRAIN** (“Drain”) pursuant to Act No. 40 of the Public Acts of 1956 (“Drain Code”), as amended whose address is the Office of the Oakland County Water Resources Commissioner (“WRC”), One Public Works Drive, Waterford, Michigan 48328-1907, for and in consideration of the sum of **ONE DOLLAR (\$1.00)** receipt of which is hereby acknowledged, paid to them by **GRANTEE, MICHIGAN DEPARTMENT OF TRANSPORTATION**, whose address is 18101 W. Nine Mile Road, Southfield, Michigan 48075. **GRANTOR** does hereby grant to **GRANTEE** the right to use the Permanent Easements for Access, Electrical Service, Pump Station, and Storm Drainage System (collectively, the “Easement Areas”) described herein in accordance with the terms and conditions set forth herein this Easement Agreement (“Agreement”):

### **RECITALS:**

A. The **GRANTOR** is the owner of certain real property described as follows (the “Premises”):

A parcel of land in and being a part of the Southeast 1/4, Section 11, Town 01 N, Range 11 E, City of Madison Heights, Township of Royal Oak, County of Oakland, State of Michigan, being more particularly described as follows: Part of the Southeast 1/4 beginning at a point distant S 01°54'48" E, 761.16 feet and S 88°02'16" W, 637.25 feet from the East ¼ corner, thence S 01°45'25" E, 416.26 feet, thence S 83°57'31" W, 88.16 feet, thence S 44°17'15" W, 548.27 feet, thence S 61°02'30" W, 464.37 feet, thence S 80°48'55" W, 617.99 feet, thence S 32°44'23" W, 239.86 feet, thence N 02°02'41" W, 421.35 feet, thence N 34°08'31" E, 1.96 feet, thence N 80°57'13" E, 544.77 feet, thence N 01°23'11" W, 263.06 feet, thence N 64°00'22" E, 378.45 feet, thence N 44°12'14" E, 640.40 feet, thence N 82°48'52" E, 299.06 feet, thence S 01°45'23" W, 92.70 feet to the Point of Beginning,

*Sidwell No: 25-11-427-008 (from Liber 5673 Page 754, Liber 5699 Page 346, Liber 5699 Page 345 & L 5805 Page 765)*

*Commonly known as 1400 Ajax Drive*

Also;

Also part of the West 1/2 of the Southeast 1/4 of Section 11, T.01N., R.11E., Royal Oak Twp., City of Madison Heights, Oakland County, Michigan described as: Beginning at a point located N 87°46'20" E, 890.77 ft. and N

01°21'20" W, 1091.34 ft. from the South 1/4 corner of said Section 11: thence S 80°57'13" W, 546.67 ft.; thence S 34°08'21" W, 1.28 ft.; thence N 02° 01' 18" W, 163.35 ft. along the East right-of-way line of I-75 Highway; thence N 87°58'42" E, 35.00 ft.; thence N 64°23'35" E, 157.89 ft: thence N 85°54'45" E, 266.18 ft.; thence N 12°19'28" E, 70.01 ft.; thence N 80°31'23" E, 71.25 ft.; thence N 63°55'03" E, 13.74 ft.; thence S 01°21'12" E, 250.91 ft. to the Point of Beginning.

**As recorded in L 31504 P 686 as follows:**

Part of the West 1/2 of the Southeast 1/4 of Section 11, T.01N., R.11E., Royal Oak Township, City of Madison Heights, Oakland County, Michigan described as: Beginning at a point located N. 88°32'10" E., 890.77 ft. and N. 00°35'30" W., 1091.34 ft. from the South 1/4 corner of said Section 11: thence S. 81°43'00" W., 546.67 ft.; thence S. 34°55'10" W., 1.28 ft.; thence N. 01°15'31" W., 163.35 ft. along the East right-of-way line of I-75 Hwy.; thence N. 88°44'29" E., 35.00 ft.; thence N. 65°09'22" E., 157.89 ft: thence N. 86°40'32" E., 266.18 ft.; thence N. 13°05'15" E., 70.01 ft.; thence N. 81°17'10" E., 71.25 ft.; thence N. 64°40'50" E., 13.74 ft.; thence S. 00°35'30"E., 250.91 ft. to the point of beginning.

**Sidwell No: 25-11-403-009**

**Commonly known as 1400 Ajax Drive# Backlot**

Also;

Part of the Southwest 1/4 of Section 11, T.01N., R.11E., Royal Oak Twp., City of Madison Heights, Oakland County, Michigan described as: Beginning at a point located S 88°53'10" W, 290.00 ft. and N 00°41'20" W, 330.87 ft. from the South 1/4 corner of Section 11; thence from said POINT OF BEGINNING S 87°46'50" W, 256.72 ft.; thence N 00°45'10" W, 359.00 ft.; thence N 88°53'10" E, 255.46 ft.; thence S 00°41'20" E, 352.19 ft. to the point of beginning.

**Sidwell No: 25-11-377-008**

**Commonly known as 29132 Stephenson Highway**

and,

B. The GRANTEE desires to acquire from the GRANTOR certain Permanent Easement rights to the Premises within the easement areas described herein for the purposes described.

**IT IS THEREFORE AGREED:**

- 1. Grant of Permanent Access Easement.** GRANTOR hereby grants to GRANTEE an access easement solely for ingress/egress to and from permanent easements for electrical service, the pump station, and storm drainage system described as follows:

Beginning at a point located distant N 32° 44' 23" E, 239.86 ft. and N 80° 48' 55" E, 407.69 ft. (measured) and N 01° 23' 11" W, 61.15 ft. (measured) from the Southwest corner of the above-described parcel (25-11-427-008); thence from said POINT OF BEGINNING along a curve to the left, (Radius= 139.00 ft, chord bears N 31° 42' 12" W, 127.67 ft. (measured)) an arc distance of 132.65 ft. (measured); thence N 04° 21' 54" W, 306.53 ft. (measured); thence N 80° 31' 23" E, 28. 11 ft. (measured) along the North parcel line; thence S 04° 21' 54" E, 309.03 ft. (measured) to the point of a curve to the left, (Radius= 111.00 ft., chord bears S 26° 50' 37" E, 84.88 ft.(measured)) an arc distance of 87.10 ft. (measured); thence S 01° 23' 11" E, 35.03 ft. (measured) to the point of beginning.

**2. Grant of Permanent Electrical Service Easements.** GRANTOR hereby grants to GRANTEE permanent easements for sole purpose of the operation, maintenance, repair and replacement of electrical service lines and related appurtenances described as follows:

**Permanent Electrical Service Easement C-1**

A strip of land 10.00 feet wide with a centerline described as beginning at a point on the North line of the above-described parcel (25-11-427-008) said point located N 87° 58' 42" E, 28.09 ft. along said North line from the Northwest corner of said parcel; thence from said POINT OF BEGINNING the following three (5) courses S 01° 23' 06" E, 127.52 ft. (measured); thence S 87° 52' 06" W, 17.52 ft. (measured) to a point and returning N 87° 52' 06" E, 17.52 ft. (measured); thence S 01° 46' 31" E, 23.00 ft. (measured) to a point and returning N 01° 46' 31" W, 23.00 ft.; thence S 34° 24' 07" E, 112.68 ft.; thence S 40° 50' 39" E, 28.08 ft. (measured) to a point of ending on the North line of the below-described Permanent Easement A said point located S 89° 51' 09" E, 108.98 ft. (measured) from the Northwest corner of said Permanent Easement A.

**Permanent Electrical Service Easement C-2**

Beginning at a point located distant N 32° 44' 23" E, 239.86 ft. and N 80° 48' 55" E, 407.69 ft. (measured) and N 01° 23' 11" W, 43.19 ft. (measured) from the Southwest corner of the above-described parcel (25-11-427-008); thence from said POINT OF BEGINNING continuing N 01° 23' 11" W, 10.22 ft. (measured); thence S 79° 22' 40" E, 101.44 ft. (measured); thence S 10° 37' 20" W, 10.00 ft.; thence N 79° 22' 40" W, 99.31 ft. (measured) to the point of beginning.

**3. Grant of Permanent Easements for Pump Station and Storm Drainage**

**System.** GRANTOR hereby grants to GRANTEE permanent easements for purpose of the operation, maintenance, repair and replacement of a pump station, storm drainage system, and related appurtenances described as follows:

**Permanent Easement A**

Beginning at the Southwest corner of the above-described parcel (25- 11 - 427-008); thence N 02° 02' 41 " W, 344.73 ft. along the West parcel line; thence S 89° 51' 09" E, 125.31 ft.; thence S 38° 41' 45" E, 18.08 ft.; thence N 84° 59' 35" E, 11.15 ft.; thence S 82° 29' 44" E, 76.44 ft.; thence S 88° 53' 52" E, 130. 78 ft.; thence N 79° 03' 56" E, 77.46 ft.; thence N 72° 40' 53" E, 66.07 ft. (measured) to the point of a curve to the left, (Radius = 11.00 ft., chord bears N 19° 22' 43" E, 17.64 ft.(measured)) an arc distance of 20.47 ft. (measured) to the point of a curve to the left, (Radius= 139.00 ft, chord bears S 46° 29' 29" E, 60.41 ft. (measured)) an arc distance of 60.90 ft. (measured); thence S 01° 23' 11" W, 17.91 ft. (measured); thence N 79° 22' 40" W, 23.21 ft. (measured); thence S 82° 27' 04" W, 63.59 ft. (measured); thence S 74° 39' 07" W, 76.11 ft. (measured); thence S 87° 10' 01" W, 101.04 ft.; thence S 76° 38' 51" W, 37.56 ft.; thence S 48° 41' 41" W, 39.94 ft.; thence S 59° 28' 43" W, 86.76 ft.; thence S 32° 44' 23" W, 49.36 ft. along the South parcel line, thence S 83° 55' 02" W, 47.10 ft; thence S 52° 57' 38" W, 26.60 ft.;

thence S 12° 20' 32" W, 131.67 ft.; thence S 32° 44' 23" W, 12.59 ft. along the South parcel line to the point of beginning.

**Permanent Easement B**

Beginning at a point on the East line of the above-described parcel (25-11-377-008), said point located distant N 00°41'20" W, 20.47 ft. along said East parcel line from the Southeast corner of the above-described parcel (25-11-377-008); thence from said POINT OF BEGINNING S 80° 14' 07" W, 145.62 ft.; thence N 19° 40' 34" W, 61.51 ft.; thence N 70° 19' 26" E, 20.00 ft.; thence S 19° 40' 34" E, 44.70 ft.; thence N 80° 14' 07" E, 132.01 ft. to the East parcel line; thence S 00° 41' 20" E, 20.25 ft. along the East parcel line to the point of beginning.

4. **Purpose of the Easement Areas.** The Access Easement granted herein shall be used solely for ingress/egress to access the Electrical Service, Pump Station and Storm Drainage System Easement Areas. The Pump Station and Storm Drainage System Easement Areas granted herein shall be used solely for the operation, maintenance, repair and replacement of a pump station, storm drainage system and related appurtenances.
5. GRANTOR has approved the improvements shown on the plans attached as **Exhibit A**. Any improvements proposed to be constructed by GRANTEE within the Easement Areas not shown on the attached plans will require GRANTOR's approval prior to construction. GRANTOR reserves the right to remove any unapproved improvements constructed by GRANTEE within the Easement Areas.
6. **General Conditions.**
  - a. GRANTEE shall preserve and protect all trees and shrubbery within the Easement Areas.
  - b. If the Premises shall be disturbed by reason of the exercise of the GRANTEE, then the Premises shall be restored to substantially the condition that existed prior to entering upon said Premises by the GRANTEE, its contractors, agents and/or assigns.
  - c. GRANTOR retains, reserves, and shall continue to enjoy the use of the Easement Areas for any and all purposes which do not materially interfere with or obstruct the use of or prevent use by GRANTEE.
  - d. GRANTEE agrees to limit all vehicles, equipment and materials on, over and across GRANTOR's existing subsurface retention basin per the attached structural analysis prepared by FK Engineering Associates attached as **Exhibit B**. Notwithstanding this limitation, GRANTEE and its contractors, subcontractors, and agents are solely responsible for any damages and any and all costs to repair

damages to GRANTOR's facilities above or below surface of the property caused by the GRANTEE's and its contractor's, subcontractor's, and agent's use of the Easement Areas.

e. GRANTOR and GRANTEE (individually, "Party" or, collectively, the "Parties") will remain responsible for any and all claims arising out of its own acts and/or omissions during the performance of the Agreement, as provided by this Agreement or by law. This Agreement is not intended to increase or decrease either Party's liability for or immunity from tort claims. This Agreement is not intended to, nor will it be interpreted as giving either Party a right of indemnification, either by contract or by law, for claims arising out of the performance of this Agreement.

f. It is understood that the easement, rights, and privileges granted herein are nonexclusive, and GRANTOR reserves and retains the right to convey similar easements and rights to such other persons as GRANTOR may deem proper provided such similar easements do not materially affect GRANTEE'S use of the Easement Areas.

g. This Agreement shall be binding upon and inure to the benefit of the Parties hereto, their heirs, representatives, successors and assigns.

h. A map of the above-described Easement Areas is attached hereto.

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

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

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

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

*(Remainder of this page intentionally left blank)*







# EASEMENT SKETCH

NOTE: NO FIELD WORK PERFORMED  
DESCRIPTION TAKEN FROM RECORD.



SCALE: 1" = 250'

EAST 1/4 CORNER  
SECTION 11  
T. 01 N., R. 11 E.



761.16'

637.25'

416.26'

EAST LINE SECTION 11 JOHN R. ROAD

88.16'

92.70'

299.06'

640.40'

378.45'

464.37'

25-11-427-008

25-11-403-009

EASEMENT C -1

546.67'

544.77'

EASEMENT "A"

407.69'

617.99'

ACCESS EASEMENT

EASEMENT C -2

1091.34'

TWELVE MILE ROAD

SOUTH LINE SECTION 11

SE 1/4 CORNER  
SECTION 11  
T. 01 N., R. 11 E.



890.77'

SOUTH 1/4  
CORNER  
SECTION 11  
T. 01 N., R. 11 E.



PROJECT: I-75 Tunnel Segment 3

12/15/2022

PERMANENT EASEMENT



EASEMENT PARCEL NO. ACCESS DWG. 1 OF 2

SIDWELL NO. 25-11-427-008 & 25-11-403-009

Part of the SE 1/4, Sec. 11, T 01 N, R 11 E, City of Madison Heights, Oakland County, Michigan

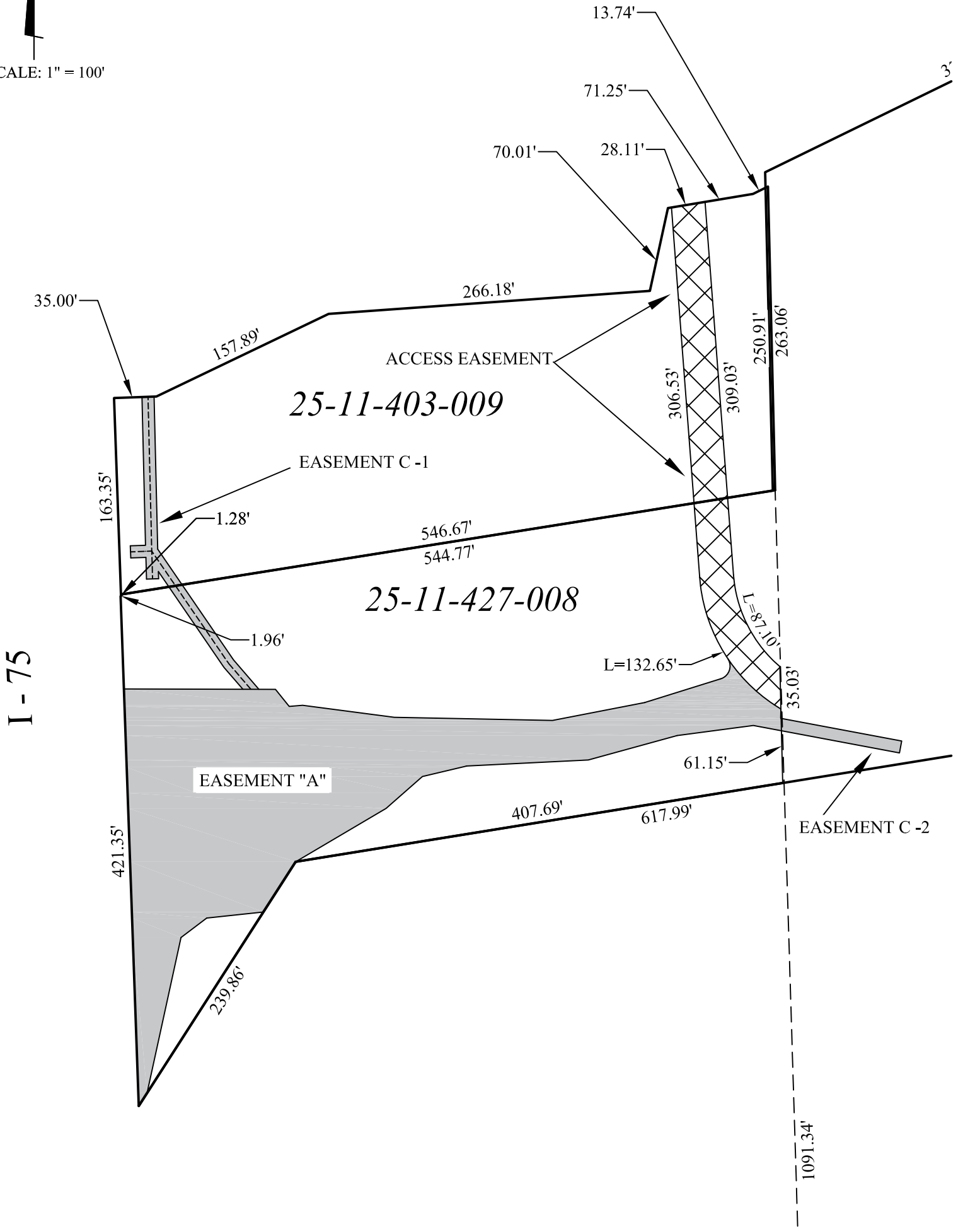
JIM NASH  
OAKLAND COUNTY WATER RESOURCE COMMISSIONER

# EASEMENT SKETCH

NOTE: NO FIELD WORK PERFORMED  
DESCRIPTION TAKEN FROM RECORD.



SCALE: 1" = 100'



PROJECT: I-75 Tunnel Segment 3

12/15/2022

PERMANENT EASEMENT  EASEMENT PARCEL NO. ACCESS DWG. 2 OF 2

SIDWELL NO. 25-11-427-008 & 25-11-403-009

Part of the SE 1/4, Sec. 11, T 01 N, R 11 E, City of Madison Heights, Oakland County, Michigan

JIM NASH  
OAKLAND COUNTY WATER RESOURCE COMMISSIONER

# EASEMENT SKETCH

NOTE: NO FIELD WORK PERFORMED  
DESCRIPTION TAKEN FROM RECORD.

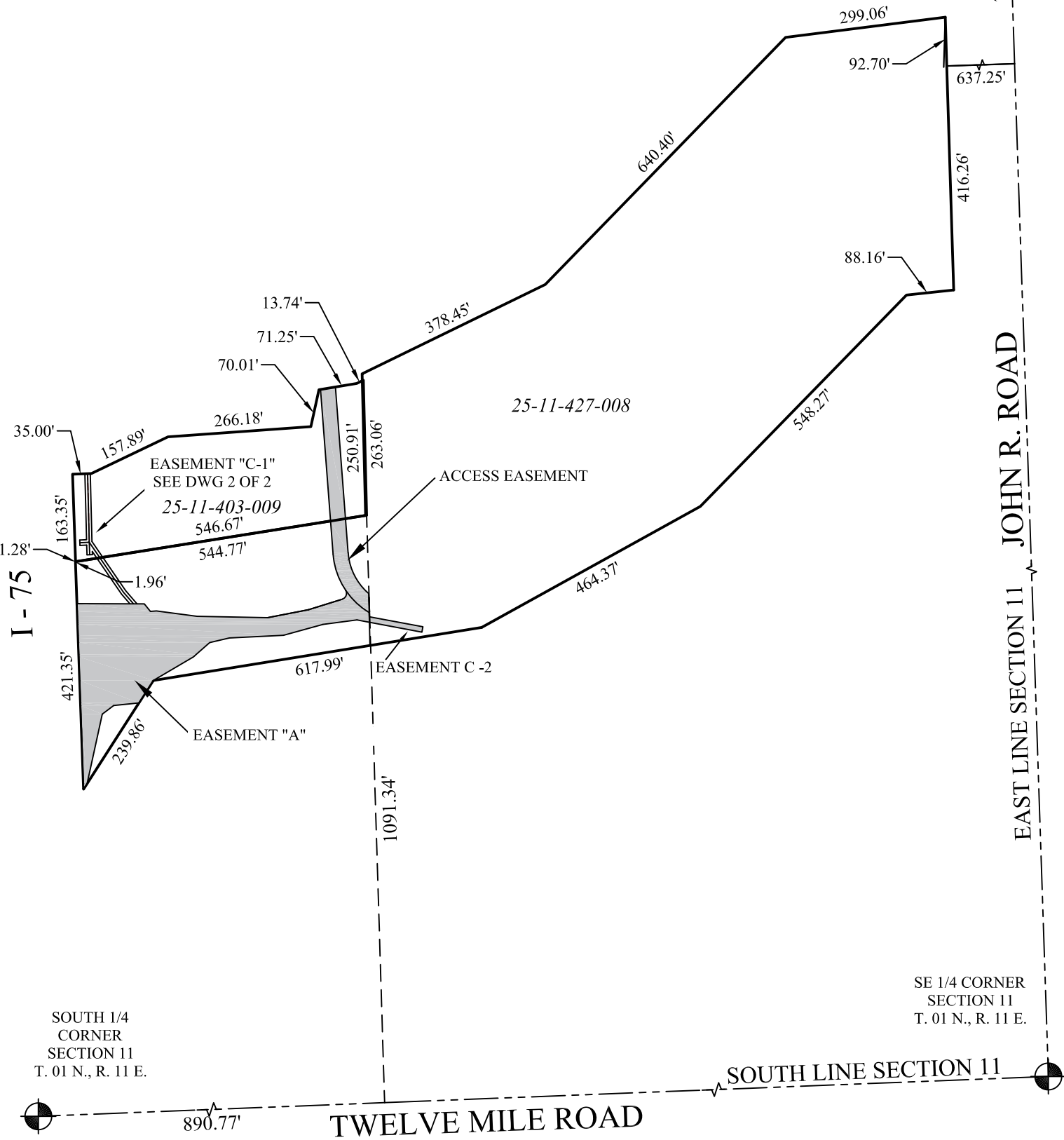


SCALE: 1" = 250'

EAST 1/4 CORNER  
SECTION 11  
T. 01 N., R. 11 E.



761.16'



EAST LINE SECTION 11 JOHN R. ROAD

SE 1/4 CORNER  
SECTION 11  
T. 01 N., R. 11 E.

SOUTH 1/4  
CORNER  
SECTION 11  
T. 01 N., R. 11 E.

SOUTH LINE SECTION 11

TWELVE MILE ROAD

PROJECT: I-75 Tunnel Segment 3 Electrical Easement

12/15/2022

PERMANENT EASEMENT  EASEMENT PARCEL NO. "C-1" DWG. 1 OF 2

SIDWELL NO. 25-11-427-008 & 25-11-403-009

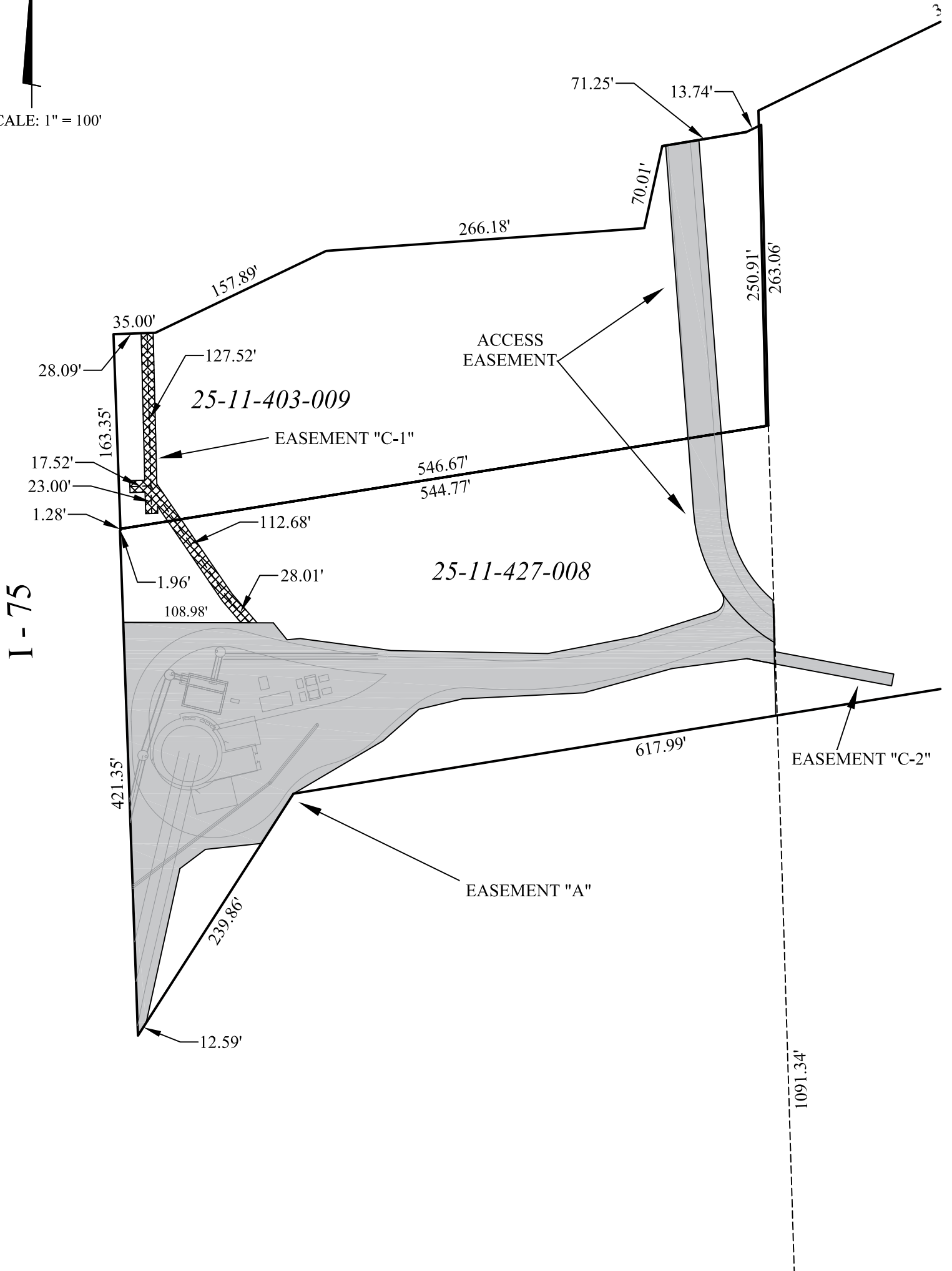
Part of the SE 1/4, Sec. 11, T 01 N, R 11 E, City of Madison Heights, Oakland County, Michigan

# EASEMENT SKETCH

NOTE: NO FIELD WORK PERFORMED  
DESCRIPTION TAKEN FROM RECORD.



SCALE: 1" = 100'



PROJECT: I-75 Tunnel Segment 3 Electrical Easement

12/15/2022

PERMANENT EASEMENT  EASEMENT PARCEL NO. "C-1" DWG. 2 OF 2

SIDWELL NO. 25-11-427-008 & 25-11-403-009

Part of the SE 1/4, Sec. 11, T 01 N, R 11 E, City of Madison Heights, Oakland County, Michigan

# EASEMENT SKETCH

NOTE: NO FIELD WORK PERFORMED  
DESCRIPTION TAKEN FROM RECORD.



SCALE: 1" = 250'

EAST 1/4 CORNER  
SECTION 11  
T. 01 N., R. 11 E.



761.16'

299.06'

92.70'

637.25'

416.26'

88.16'

640.40'

378.45'

13.74'

71.25'

70.01'

266.18'

EASEMENT "C-1"  
25-11-403-009

546.67'

544.77'

EASEMENT "A"

EASEMENT C-2  
SEE DWG 2 OF 2

1091.34'

25-11-427-008

ACCESS EASEMENT

464.37'

548.27'

EAST LINE SECTION 11 JOHN R. ROAD

SE 1/4 CORNER  
SECTION 11  
T. 01 N., R. 11 E.



SOUTH LINE SECTION 11

SOUTH 1/4  
CORNER  
SECTION 11  
T. 01 N., R. 11 E.



890.77'

TWELVE MILE ROAD

PROJECT: I-75 Tunnel Segment 3 Electrical Easement

12/15/2022

PERMANENT EASEMENT



EASEMENT PARCEL NO. "C-2" DWG. 1 OF 2

SIDWELL NO. 25-11-427-008 & 25-11-403-009

Part of the SE 1/4, Sec. 11, T 01 N, R 11 E, City of Madison Heights, Oakland County, Michigan

JIM NASH  
OAKLAND COUNTY WATER RESOURCE COMMISSIONER

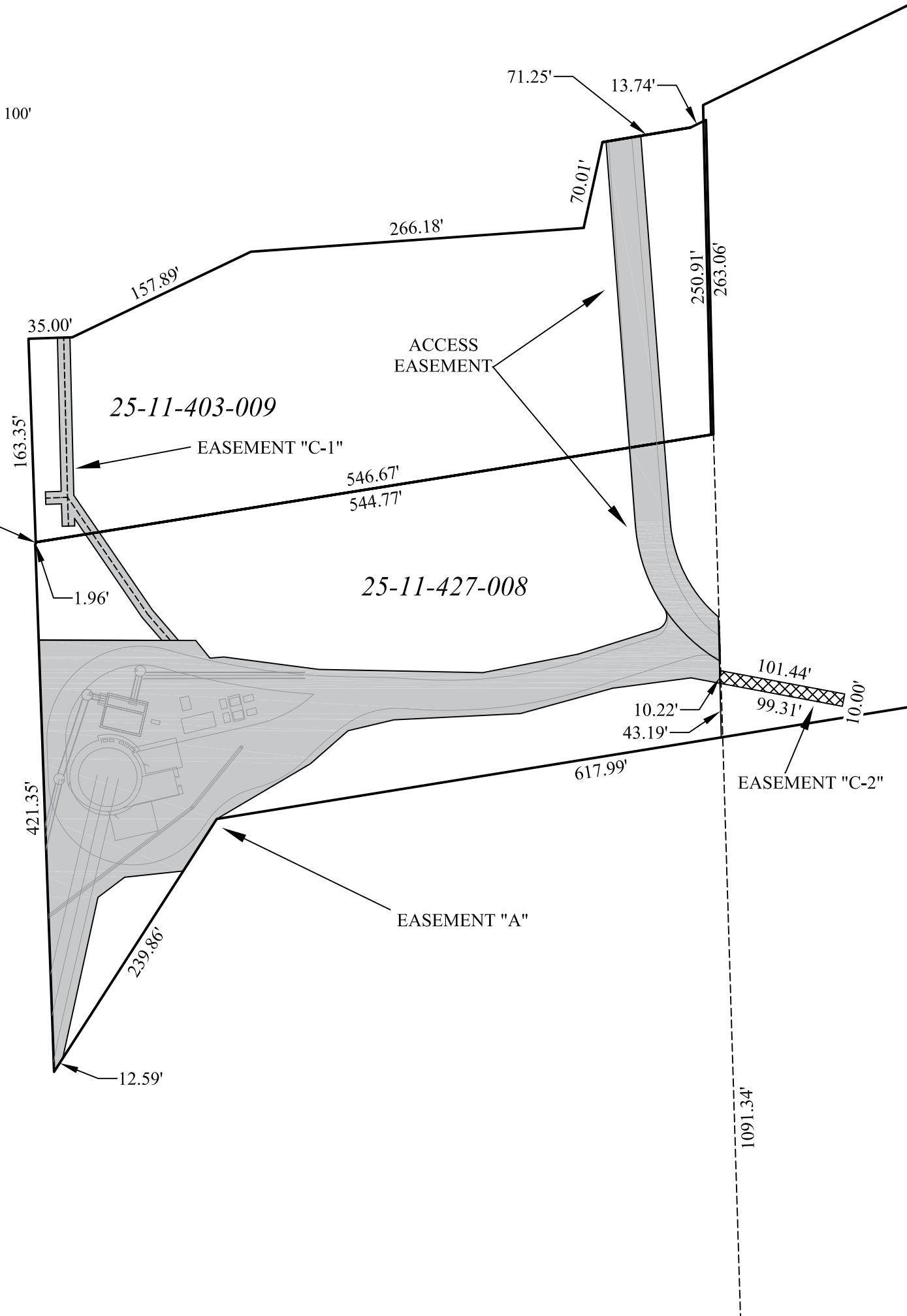
# EASEMENT SKETCH

NOTE: NO FIELD WORK PERFORMED  
DESCRIPTION TAKEN FROM RECORD.



SCALE: 1" = 100'

I - 75



PROJECT: I-75 Tunnel Segment 3 Electrical Easement

12/15/2022

PERMANENT EASEMENT  EASEMENT PARCEL NO. "C-2" DWG. 2 OF 2

SIDWELL NO. 25-11-427-008 & 25-11-403-009

Part of the SE 1/4, Sec. 11, T 01 N, R 11 E, City of Madison Heights, Oakland County, Michigan

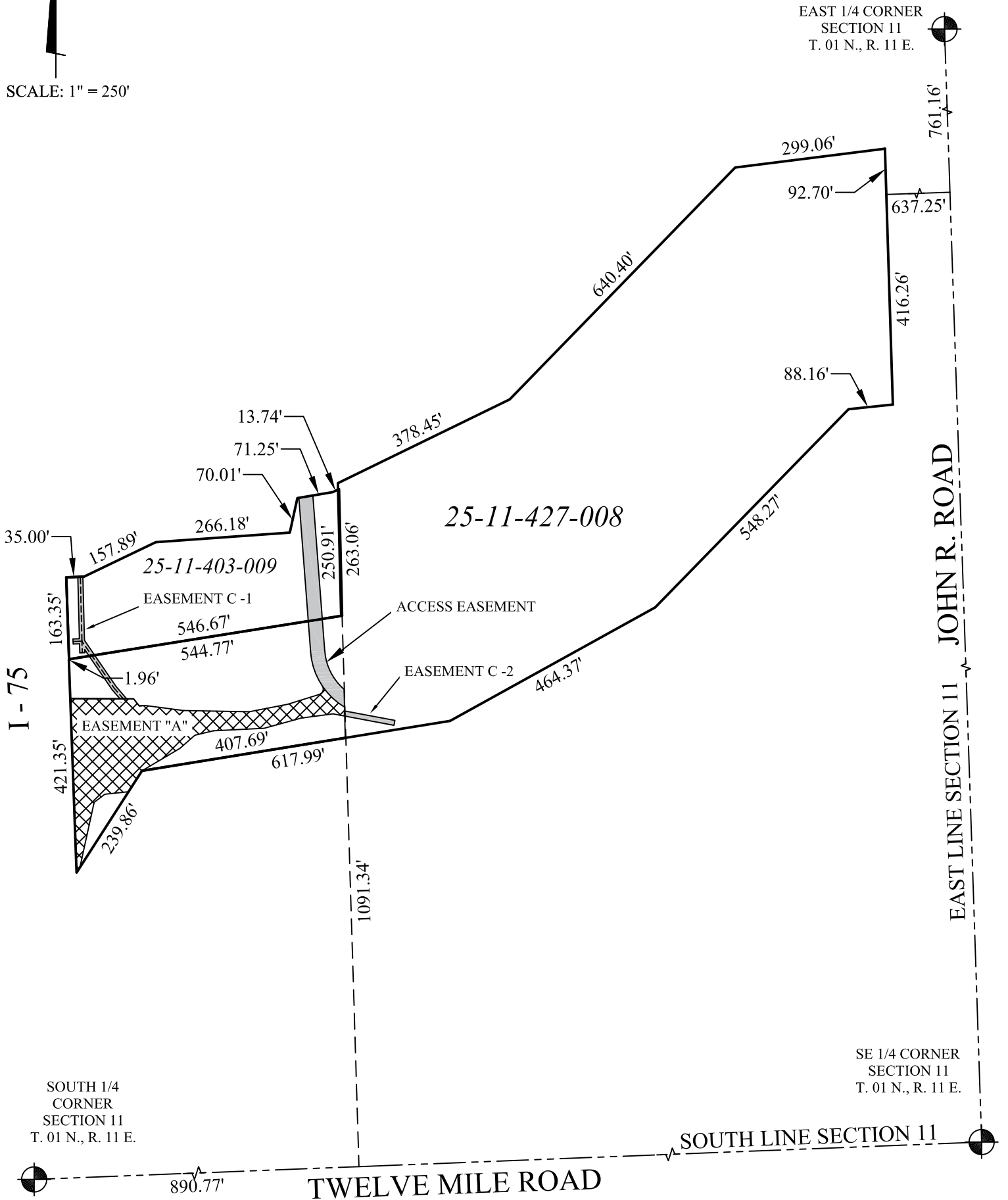
JIM NASH  
OAKLAND COUNTY WATER RESOURCE COMMISSIONER

# EASEMENT SKETCH

NOTE: NO FIELD WORK PERFORMED  
DESCRIPTION TAKEN FROM RECORD.



SCALE: 1" = 250'



PROJECT: I-75 Tunnel Segment 3

12/15/2022

PERMANENT EASEMENT  EASEMENT PARCEL NO. "A" DWG. 1 OF 2

SIDWELL NO. 25-11-427-008 & 25-11-403-009

Part of the SE 1/4, Sec. 11, T 01 N, R 11 E, City of Madison Heights, Oakland County, Michigan

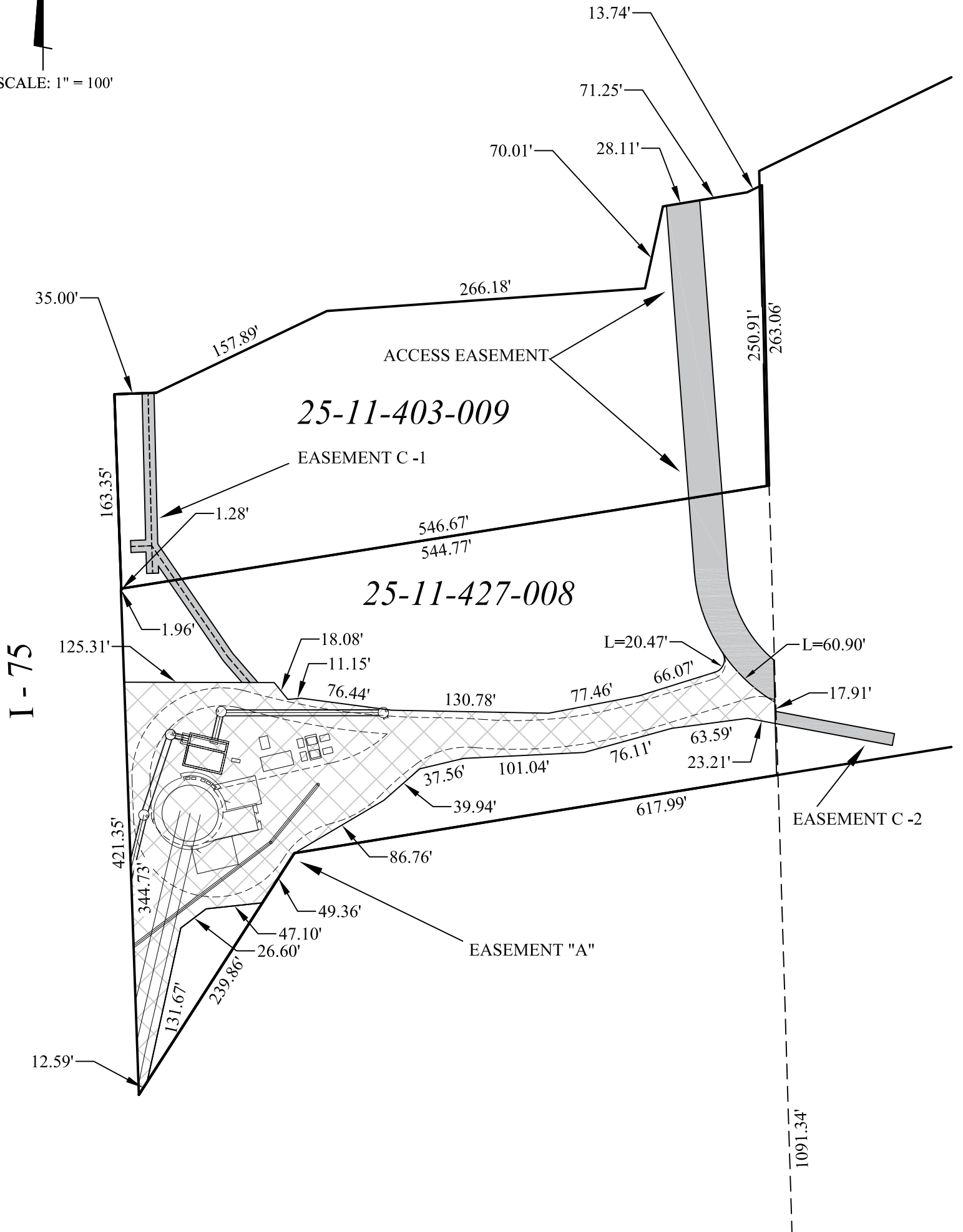


# EASEMENT SKETCH

NOTE: NO FIELD WORK PERFORMED  
DESCRIPTION TAKEN FROM RECORD.



SCALE: 1" = 100'



PROJECT: I-75 Tunnel Segment 3

01/11/2023

PERMANENT EASEMENT  EASEMENT PARCEL NO. "A" DWG. 2 OF 2

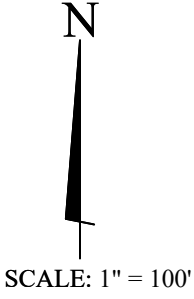
SIDWELL NO. 25-11-427-008 & 25-11-403-009

Part of the SE 1/4, Sec. 11, T 01 N, R 11 E, City of Madison Heights, Oakland County, Michigan



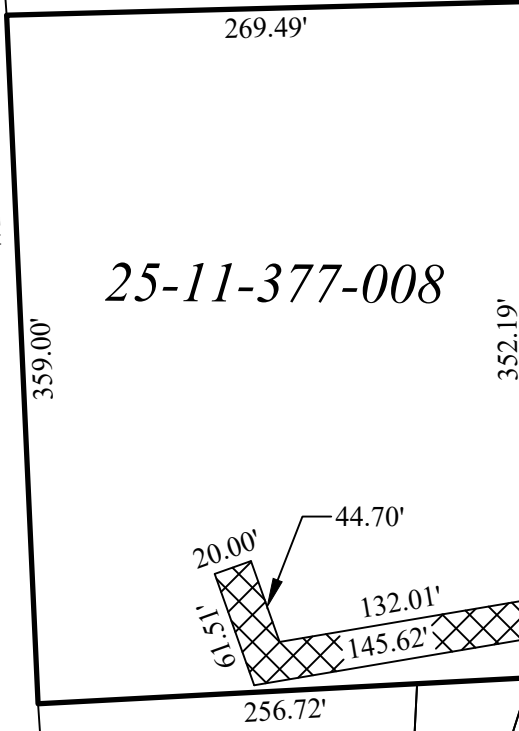
# EASEMENT SKETCH

NOTE: NO FIELD WORK PERFORMED  
DESCRIPTION TAKEN FROM RECORD.



STEPHENSON HIGHWAY (204.00 ft. WIDE)

WEST RIGHT OF WAY LINE STEPHENSON HIGHWAY



25-11-377-008

WEST RIGHT OF WAY LINE I-75

INTERSTATE I-75

NORTH & SOUTH 1/4 LINE SECTION 11

SOUTH LINE SECTION 11

330.87'

290.00'

TWELVE MILE ROAD

SOUTH 1/4 CORNER  
SECTION 11  
T. 01 N., R. 11 E.

PROJECT: I-75 Tunnel Segment 3

03/08/2022

PERMANENT EASEMENT

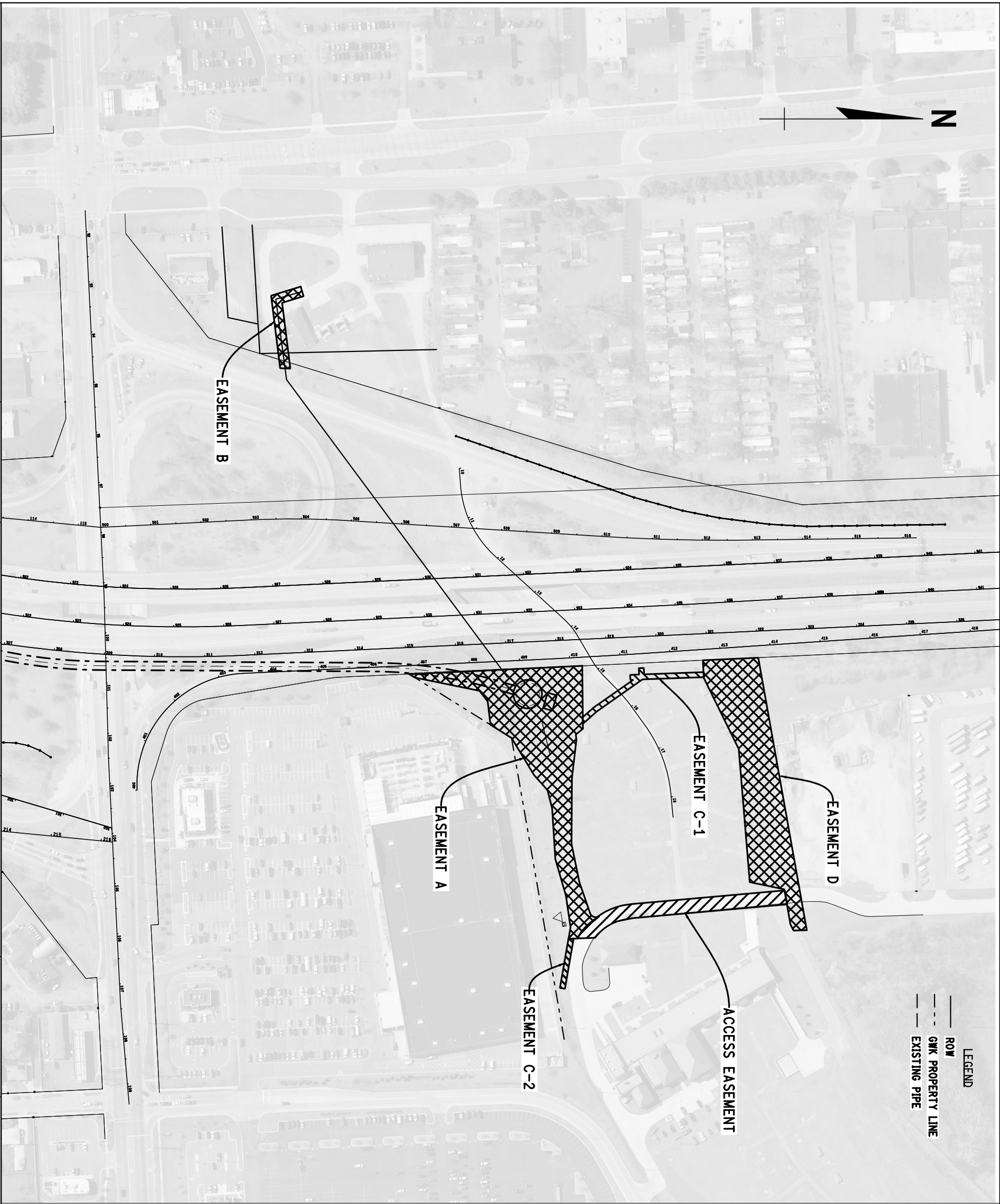


EASEMENT PARCEL NO. "B" DWG. 1 OF 1

SIDWELL NO. 25-11-377-008

Part of the SW 1/4, Sec. 11, T 01 N, R 11 E, City of Madison Heights, Oakland County, Michigan

## Exhibit A



**LEGEND**

- ROW
- - - GWK PROPERTY LINE
- - - EXISTING PIPE

**Permanent Access Easement**  
Beginning at a point located distant N 32° 44' 23" E, 239.86 ft. and N 80° 48' 55" E, 407.69 ft. (measured) and N 01° 23' 11" W, 61.15 ft. (measured) from the Southwest corner of parcel (25-11-427-008); thence from said POINT OF BEGINNING along a curve to the left, (Radius= 139.00 ft, chord bears N 31° 42' 12" W, 127.67 ft. (measured); an arc distance of 132.65 ft. (measured); thence N 04° 21' 54" W, 306.53 ft. (measured); thence N 80° 31' 23" E, 28.11 ft. (measured) along the North parcel line; thence S 04° 21' 54" E, 309.03 ft. (measured) to the point of a curve to the left, (Radius= 111.00 ft., chord bears S 26° 50' 37" E, 84.88 ft. (measured)) an arc distance of 87.10 ft. (measured); thence S 01° 23' 11" E, 35.03 ft. (measured) to the point of beginning.

**Permanent Easement A**  
Beginning at the Southwest corner of parcel (25- 11- 427-008); thence N 02° 02' 41" W, 344.73 ft. along the West parcel line; thence S 89° 51' 09" E, 125.31 ft.; thence S 38° 41' 45" E, 18.08 ft.; thence N 84° 59' 35" E, 11.15 ft.; thence S 82° 29' 44" E, 76.44 ft.; thence S 88° 53' 52" E, 130.78 ft.; thence N 79° 03' 56" E, 77.46 ft.; thence N 72° 40' 53" E, 66.07 ft. (measured) to the point of a curve to the left, (Radius = 11.00 ft., chord bears N 19° 22' 43" E, 17.64 ft. (measured)) an arc distance of 20.47 ft. (measured) to the point of a curve to the left, (Radius= 139.00 ft, chord bears S 46° 29' 29" E, 60.41 ft. (measured)) an arc distance of 60.90 ft. (measured); thence S 01° 23' 11" W, 17.91 ft. (measured); thence N 79° 22' 40" W, 23.21 ft. (measured); thence S 82° 27' 04" W, 63.59 ft. (measured); thence S 74° 39' 07" W, 76.11 ft. (measured); thence S 87° 10' 01" W, 101.04 ft.; thence S 76° 38' 51" W, 37.56 ft.; thence S 48° 41' 41" W, 39.94 ft.; thence S 59° 28' 43" W, 86.76 ft.; thence S 32° 44' 23" W, 49.36 ft. along the South parcel line, thence S 83° 55' 02" W, 47.10 ft.; thence S 52° 57' 38" W, 26.60 ft.; thence S 12° 20' 32" W, 131.67 ft.; thence S 32° 44' 23" W, 12.59 ft. along the South parcel line to the point of beginning.

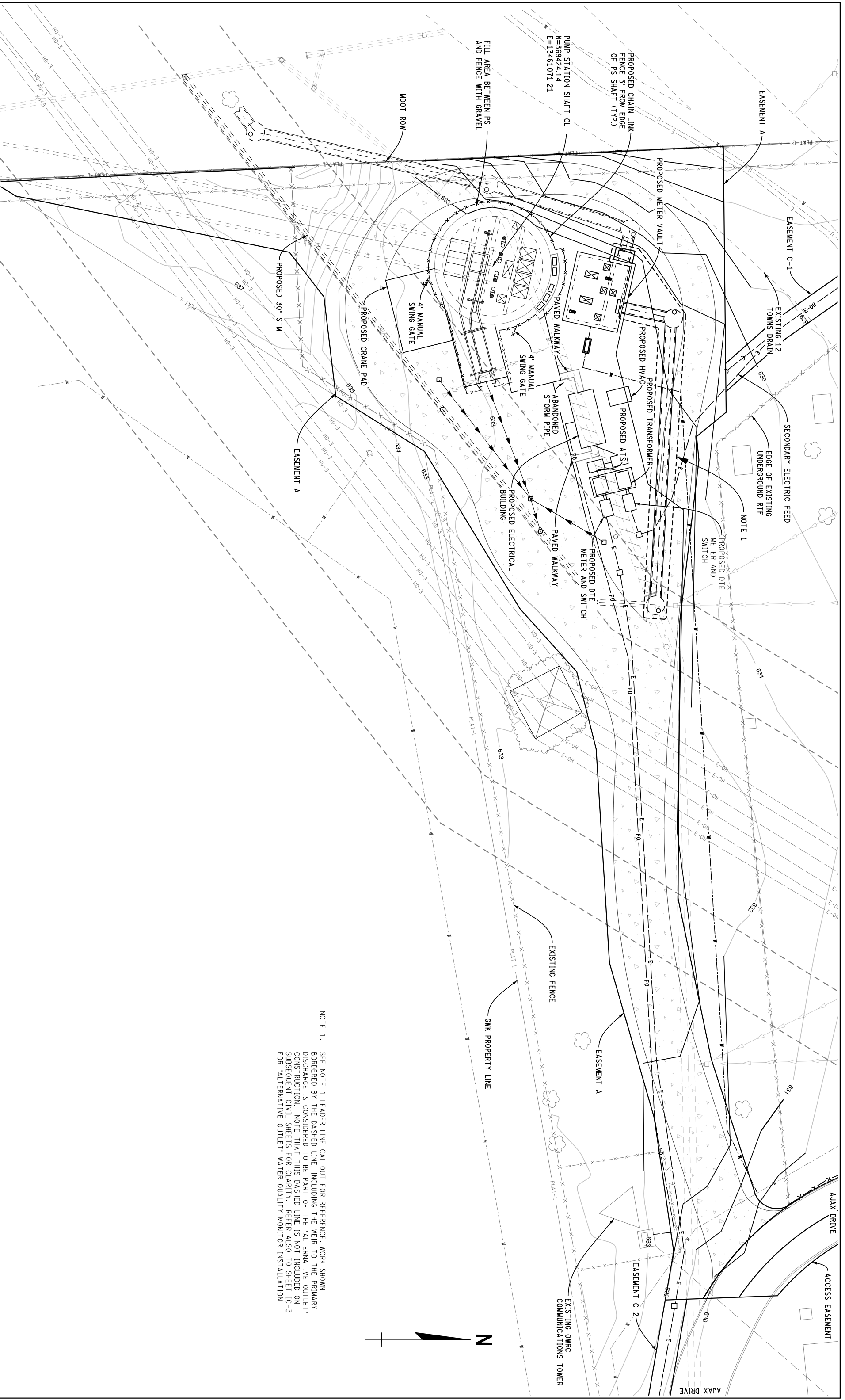
**Permanent Easement B**  
Beginning at a point on the East line of parcel (25-11-377-008), said point located distant N 00° 41' 20" W, 20.47 ft. along said East parcel line from the Southeast corner of parcel (25-11-377-008); thence from said POINT OF BEGINNING S 80° 14' 07" W, 145.62 ft.; thence N 19° 40' 34" W, 61.51 ft.; thence N 70° 19' 26" E, 20.00 ft.; thence S 19° 40' 34" E, 44.70 ft.; thence N 80° 14' 07" E, 132.01 ft. to the East parcel line; thence S 00° 41' 20" E, 20.25 ft. along the East parcel line to the point of beginning.

**Permanent Easement C-1**  
A strip of land 10.00 feet wide with a centerline described as beginning at a point on the North line of parcel (25-11-427-008) said point located N 87° 58' 42" E, 28.09 ft. along said North line from the Northwest corner of said parcel; thence from said POINT OF BEGINNING the following three (3) courses S 01° 23' 06" E, 124.15 ft. (measured); thence S 87° 52' 06" W, 17.52 ft. (measured) to a point and returning N 87° 52' 06" E, 17.52 ft. (measured); thence S 01° 46' 31" E, 23.00 ft. (measured) to a point and returning N 01° 46' 31" W, 23.00 ft.; thence S 34° 24' 07" E, 112.68 ft.; thence S 40° 50' 39" E, 28.08 ft. (measured) to a point of ending on the North line of the above-described Permanent Easement A said point located S 89° 51' 09" E, 108.98 ft. (measured) from the Northwest corner of said Permanent Easement A.

**Permanent Easement C-2**  
Beginning at a point located distant N 32° 44' 23" E, 239.86 ft. and N 80° 48' 55" E, 407.69 ft. (measured) and N 01° 23' 11" W, 43.19 ft. (measured) from the Southwest corner of parcel (25-11-427-008); thence from said POINT OF BEGINNING continuing N 01° 23' 11" W, 10.22 ft. (measured); thence S 79° 22' 40" E, 101.44 ft. (measured); thence S 10° 37' 20" W, 10.00 ft.; thence N 79° 22' 40" W, 99.31 ft. (measured) to the point of beginning.

**Permanent Easement D**  
TIN, RUE, SEC 11 W 1/2 OF SE 1/4 EXC E 35 ACRES, ALSO EXC BEG AT S 1/4 COR, TH N 00-41-20 W 649.46 FT, TH N 65-05-30 E 124.84 FT, TH N 34-55-10 E 406.44 FT, TH N 81-43-00 E 546.67 FT, TH S 00-35-47 E 1091.34 FT, TH S 88-32-10 W 890.77 FT TO BEG, ALSO EXC THAT PART TAKEN FOR 1-75 HWY, ALSO EXC BEG AT PT DIST N 88-32-10 E 890.77 FT & N 00-35-57 W 1091.34 FT FROM S 1/4 COR, TH S 81-43-00 W 546.67 FT, TH S34-55-10 W 1.28 FT, TH N 01-15-31 W 163.35 FT, TH N 88-44-29 E 35 FT, TH N 65-09-22 E 157.89 FT, TH N 86-40-32 E 266.18 FT, TH N 13-05-15 E 70.01 FT, TH N 81-17-10 E 71.25 FT, TH N 64-40-50 E 13.74 FT, TH S 00-35-57 E 250.91 FT TO BEG, ALSO EXC THAT PART TAKEN FOR ALAX DRIVE DESC AS BEG AT PT DIST N 88-32-10 E 890.77 FT & N 00-35-57 W 1368.60 FT FROM S 1/4 COR, TH S 81-17-22 W 106.47 FT, THE N 00-35-57 W 60 FT, TH N 23-42-47 E 86 FT, TH N 00-35-57 W 1027.77 FT, TH N 89-24-03 E 70 FT, TH S 00-35-57 E 1151.12 FT TO BEG 18.61 A-1-16-03 FR001 1-30-08 CORR

FINAL ROW PLAN REVISIONS		SUBMITTAL DATE:		DRAWING SHEET	
NO.	DATE	NO.	DATE	D09	
	AUTH		AUTH	SITE	
DESCRIPTION		DESCRIPTION		C-2A	5
<b>AECOM</b>		<b>MDOT</b> Michigan Department of Transportation		SITE PERMANENT EASEMENT PLAN	
				1-75 TUNNEL DEWATERING PUMP STATION	
0		0		CITY OF MADISON HEIGHTS, OAKLAND COUNTY	
VERT. (FT)		HORZ. (FT)			
0		200			
DATE: 12/21/22		DESIGN UNIT: FORBES		D09	
TSC: OAKLAND		CS: 63174		SITE	
		JN: 201438		C-2A	
FILE: D09 63174 CIVIL 002A.dgn					



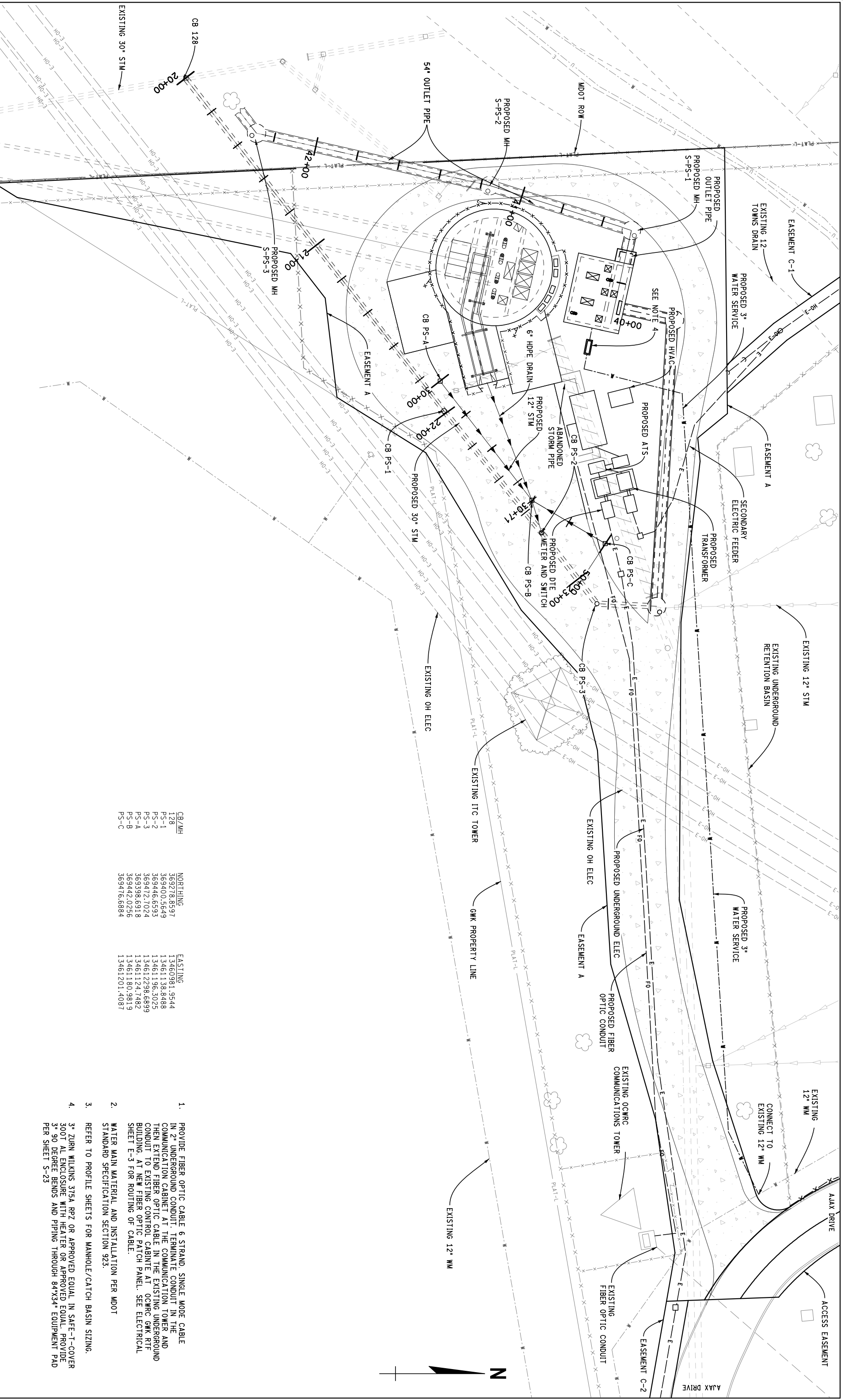
NOTE 1. SEE NOTE 1 LEADER LINE CALLOUT FOR REFERENCE. WORK SHOWN BORDERED BY THE DASHED LINE, INCLUDING THE WEIR TO THE PRIMARY DISCHARGE IS CONSIDERED TO BE PART OF THE "ALTERNATIVE OUTLET" CONSTRUCTION. NOTE THAT THIS DASHED LINE IS NOT INCLUDED ON SUBSEQUENT CIVIL SHEETS FOR CLARITY. REFER ALSO TO SHEET IC-3 FOR "ALTERNATIVE OUTLET" WATER QUALITY MONITOR INSTALLATION.

FINAL ROW PLAN REVISIONS		SUBMITTAL DATE:		DESCRIPTION
NO.	DATE	NO.	DATE	

<b>AECOM</b>		<b>MDOT</b> Michigan Department of Transportation		0 40 HORZ. (FT)	
FILE: D09 63174 CIVIL 006.dgn	DATE: 12/21/22	DESIGN UNIT: FORBES	TSC: OAKLAND	CS: 63174	JN: 201438
OVERALL PROPOSED SITE PLAN PHASE II				DRAWING SHEET	
1-75 TUNNEL DEWATERING PUMP STATION				D09	
CITY OF MADISON HEIGHTS, OAKLAND COUNTY				SITE	
				C-6	
				9	





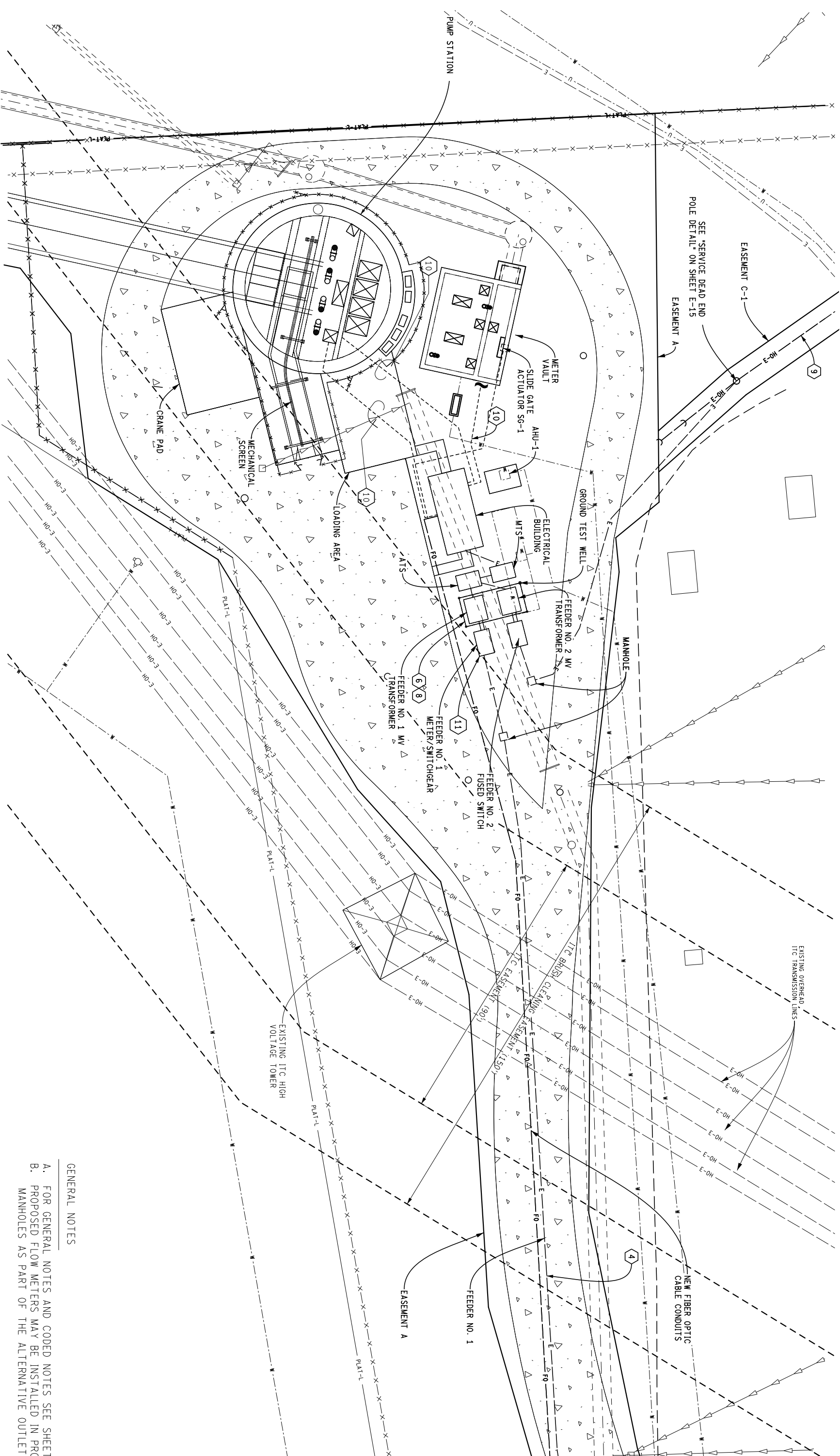
FINAL ROW PLAN REVISIONS		SUBMITTAL DATE:	
NO.	DATE	NO.	DATE
DESCRIPTION		DESCRIPTION	

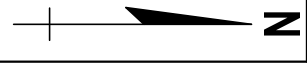
				FILE: D09 63174 CIVIL 012.dgn	
DATE: 12/21/22 DESIGN UNIT: FORBES		CS: 63174 JN: 201438		UTILITY PLAN PHASE II 1-75 TUNNEL DEWATERING PUMP STATION CITY OF MADISON HEIGHTS, OAKLAND COUNTY	
CB/MH 128 PS-1 PS-2 PS-3 PS-A PS-B PS-C		NORTHING 369278.8597 369400.5649 369446.6593 369472.7024 369398.6918 369442.0256 369476.6884		EASTING 13460981.9544 13461138.8488 13461196.3025 134612298.6899 13461124.7482 13461180.9819 13461201.4087	

1. PROVIDE FIBER OPTIC CABLE 6 STRAND SINGLE MODE CABLE IN 2" UNDERGROUND CONDUIT. TERMINATE CONDUIT IN THE COMMUNICATION CABINET AT THE COMMUNICATION TOWER AND THEN EXTEND FIBER OPTIC CABLE IN THE EXISTING UNDERGROUND CONDUIT TO EXISTING CONTROL CABINET AT OCMRC GWK RTF BUILDING. AT NEW FIBER OPTIC PATCH PANEL. SEE ELECTRICAL SHEET E-3 FOR ROUTING OF CABLE.
2. WATER MAIN MATERIAL AND INSTALLATION PER MDOT STANDARD SPECIFICATION SECTION 923.
3. REFER TO PROFILE SHEETS FOR MANHOLE/CATCH BASIN SIZING.
4. 3" ZURN WILKINS 375A RPZ OR APPROVED EQUAL IN SAFE-T-COVER 300T AL ENCLOSURE WITH HEATER OR APPROVED EQUAL. PROVIDE 3" 90 DEGREE BENDS AND PIPING THROUGH 84"x34" EQUIPMENT PAD PER SHEET S-23



FOR CONTINUATION, SEE SHEET E-3



GENERAL NOTES

- A. FOR GENERAL NOTES AND CODED NOTES SEE SHEET E-3.
- B. PROPOSED FLOW METERS MAY BE INSTALLED IN PROPOSED MANHOLES AS PART OF THE ALTERNATIVE OUTLET WORK.

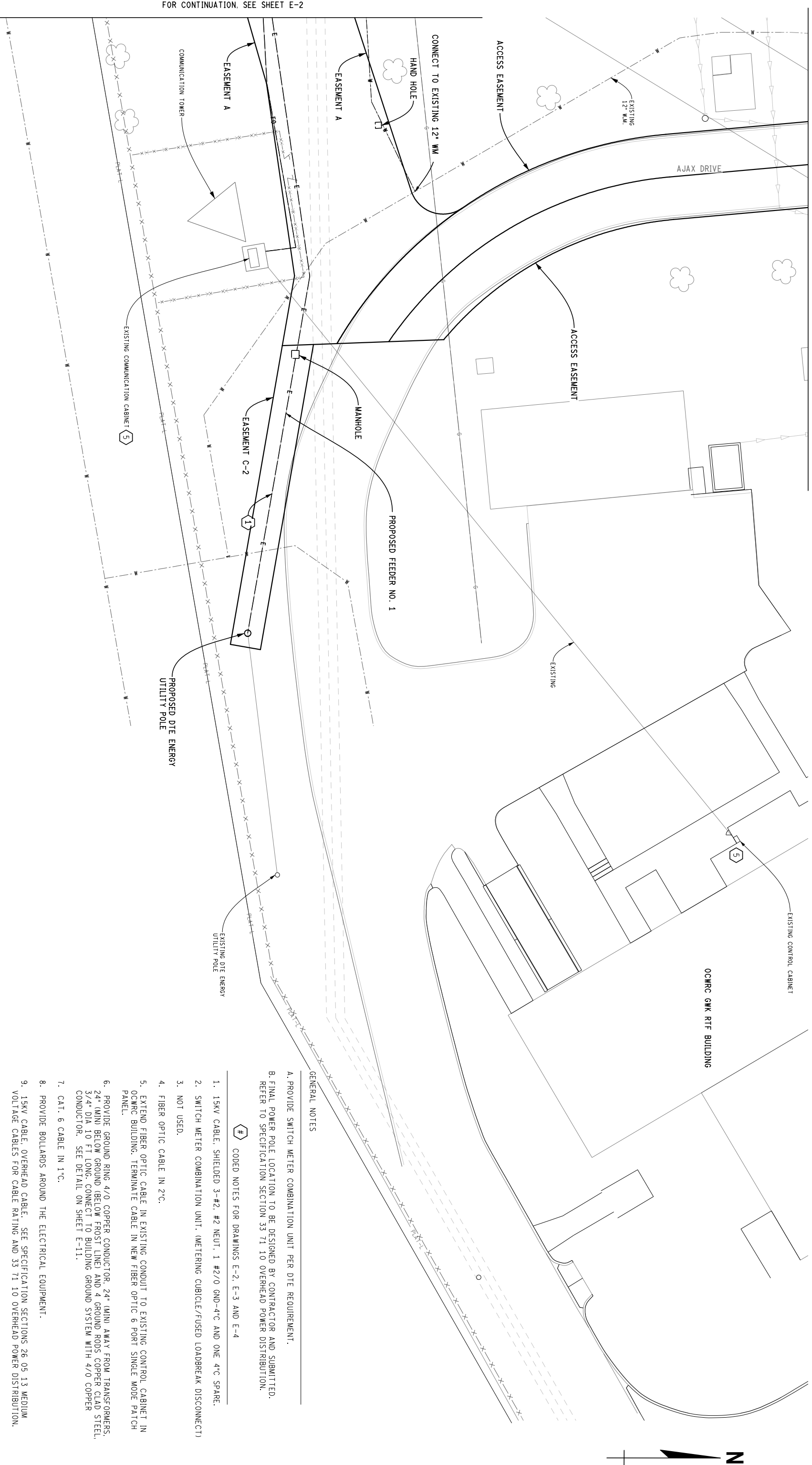
FINAL ROW PLAN REVISIONS		SUBMITTAL DATE:		DESCRIPTION
NO.	DATE	NO.	DATE	

DATE: 12/21/22	DESIGN UNIT: FORBES	DATE: 12/21/22	DESIGN UNIT: FORBES	CS: 63174	JN: 201438
FILE: D09 63174 ELEC 002.dgn	TSC: OAKLAND	FILE: D09 63174 ELEC 002.dgn	TSC: OAKLAND	ELECTRICAL SITE PLAN	1-75 TUNNEL DEWATERING PUMP STATION
				DRAWING SHEET	CITY OF MADISON HEIGHTS, OAKLAND COUNTY
				D09	
				ELEC	
				E-2	96



FOR CONTINUATION, SEE SHEET E-4



FOR CONTINUATION, SEE SHEET E-2

GENERAL NOTES

A. PROVIDE SWITCH METER COMBINATION UNIT PER DTE REQUIREMENT.

B. FINAL POWER POLE LOCATION TO BE DESIGNED BY CONTRACTOR AND SUBMITTED. REFER TO SPECIFICATION SECTION 33 71 10 OVERHEAD POWER DISTRIBUTION.

# CODED NOTES FOR DRAWINGS E-2, E-3 AND E-4

1. 15KV CABLE, SHIELDED 3-#2, #2 NEUT, 1 #2/0 GND-4°C AND ONE 4°C SPARE.
2. SWITCH METER COMBINATION UNIT. (METERING CUBICLE/FUSED LOADBREAK DISCONNECT)
3. NOT USED.
4. FIBER OPTIC CABLE IN 2" C.
5. EXTEND FIBER OPTIC CABLE IN EXISTING CONDUIT TO EXISTING CONTROL CABINET IN OCWRC BUILDING. TERMINATE CABLE IN NEW FIBER OPTIC 6 PORT SINGLE MODE PATCH PANEL.
6. PROVIDE GROUND RING 4/0 COPPER CONDUCTOR, 24" (MIN) AWAY FROM TRANSFORMERS, 24" (MIN) BELOW GROUND (BELOW FROST LINE) AND 4 GROUND RODS COPPER CLAD STEEL, 3/4" DIA 10 FT LONG, CONNECT TO BUILDING GROUND SYSTEM WITH 4/0 COPPER CONDUCTOR. SEE DETAIL ON SHEET E-11.
7. CAT. 6 CABLE IN 1" C.
8. PROVIDE BOLLARDS AROUND THE ELECTRICAL EQUIPMENT.
9. 15KV CABLE, OVERHEAD CABLE. SEE SPECIFICATION SECTIONS 26 05 13 MEDIUM VOLTAGE CABLES FOR CABLE RATING AND 33 71 10 OVERHEAD POWER DISTRIBUTION.
10. FOR CONTINUATION OF CONDUIT AND CABLES SEE PUMP STATION PLAN SHEETS.
11. SEE SECTION D ON SHEET S-24 FOR METERING CABINET PAD FOUNDATION.
12. DTE 13.2 KV SYSTEM IS 4-WIRE, WYE CONNECTED, COORDINATE WITH DTE FOR PROPER CONFIGURATION AT THE SERVICE POINT.

FINAL ROW PLAN REVISIONS		SUBMITTAL DATE:		DESCRIPTION
NO.	DATE	AUTH	DESCRIPTION	

		DATE: 12/21/22	CS: 63174	DRAWING SHEET
		DESIGN UNIT: FORBES	JN: 201438	
FILE: D09 63174 ELEC 003.dgn	TSC: OAKLAND	ELECTRICAL SITE PLAN		97
1-75 TUNNEL DEWATERING PUMP STATION		CITY OF MADISON HEIGHTS, OAKLAND COUNTY		

**AECOM**

**MDOT**  
Michigan Department of Transportation

0 30  
HORZ. (FT)

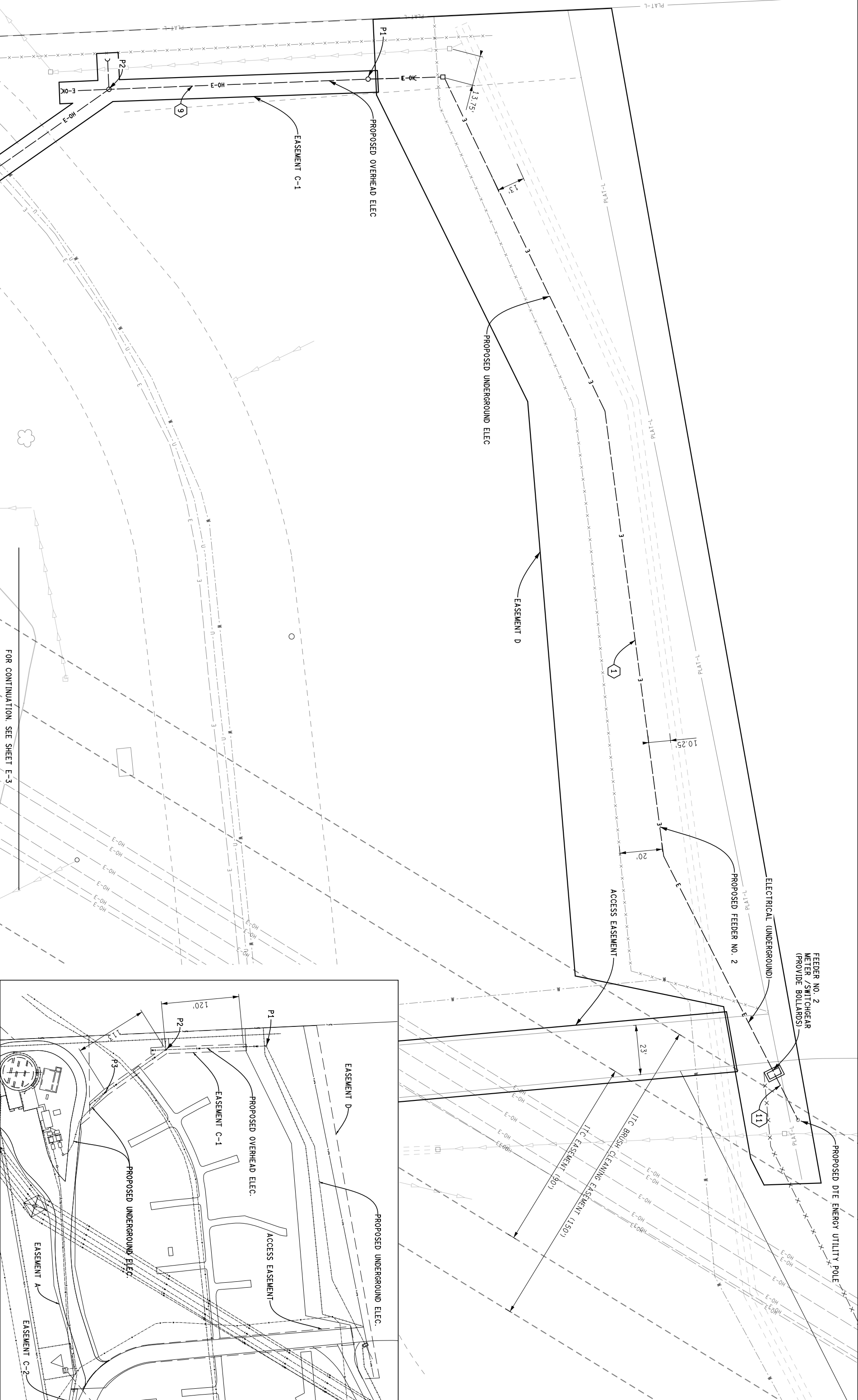
FILE: D09 63174 ELEC 003.dgn

DATE: 12/21/22  
DESIGN UNIT: FORBES

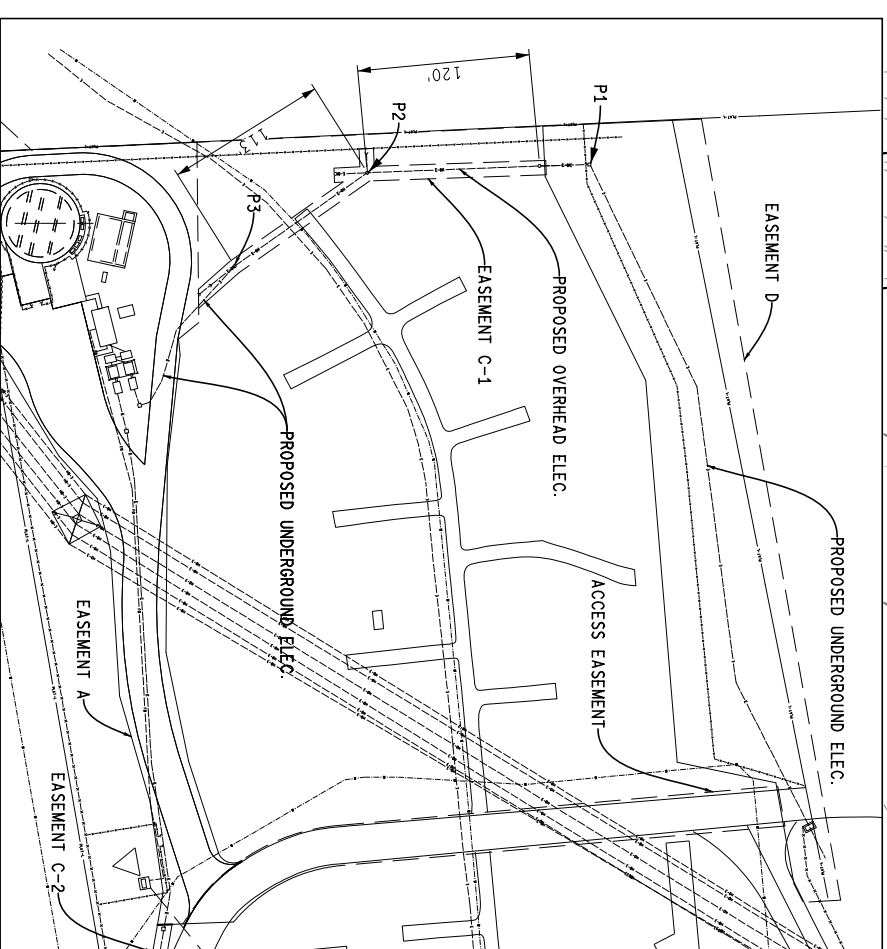
CS: 63174  
JN: 201438

ELECTRICAL SITE PLAN  
1-75 TUNNEL DEWATERING PUMP STATION  
CITY OF MADISON HEIGHTS, OAKLAND COUNTY





FOR CONTINUATION. SEE SHEET E-3



NO. DATE AUTH		DESCRIPTION		SUBMITTAL DATE:		DESCRIPTION	
FINAL ROW PLAN REVISIONS							
0		HORZ. (FT)		40		FILE: D09 63174 ELEC 004.dgn	
DATE: 12/21/22		DESIGN UNIT: FORBES		TSC: OAKLAND		CS: 63174	
JN: 201438						ELECTRICAL SITE PLAN	
D09		ELEC		E-4		DRAWING SHEET	
96						1-75 TUNNEL DEWATERING PUMP STATION	
						CITY OF MADISON HEIGHTS, OAKLAND COUNTY	

30425 Stephenson Highway  
 Madison Heights, MI 48071  
 Phone: 248-817-2946

### PROJECT MEMORANDUM

To: G. Nigro, J. Say - WRC

May 11, 2020

From: N. Bassett, P.E., F. Klingler, P.E. - FKE

FKE Project # 20-060

RE: MDOT I-75 Modernization Project – Segment 3  
 George W. Kuhn Drain Structural Analysis

In accordance with our discussions, we have performed a structural analysis of the George W. Kuhn (GWK) Drain at the site to define allowable surcharge loading from various construction activities.

Upon reviewing the historical documents, we have estimated the structural capacity of the GWK Drain at various sections (original construction, original construction with center support added, and expansion construction). Based on our analysis, we have developed construction surcharge limits for the laydown areas shown in Figure No. 1

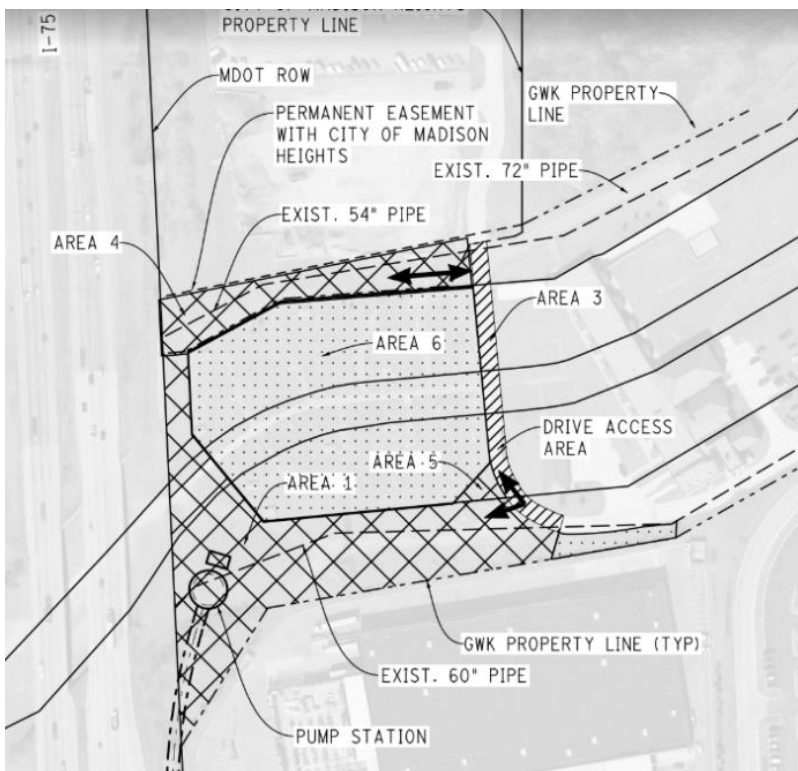


Figure No.1 – Temporary Laydown Areas (per 70% Design Drawings)

FKE recommends the following construction surcharge limits for the various laydown areas indicated in Figure No. 1:

- Area 1 – Due to the majority of this area not being directly over the GWK Drain, allowable sustained surcharge from construction activities can be up to 500 psf, (pounds per square foot) as long as they maintain a minimum of 10 foot clearance from the outside walls of the GWK Drain itself. For the portion of Area 1 that is directly over the original construction (with no center support), no sustained construction surcharge loading should be permitted. Only equipment traveling between the northern portion of Area 1 / Area 4 to the southern portion of Area 1 and vice versa should be permitted. This moving construction surcharge should be limited to 150 psf at the depth of the roof of the Drain. For example, in consideration that the roof is about 10 feet deep in this area and considering a 1(horizontal):2(vertical) stress distribution, a piece of construction equipment that is 8 feet wide and 12 feet long and that exerts 150 psf of distributed stress at the depth of the roof, would weigh approximately 30 tons. This is an example - - the Contractor should perform an analysis of each piece of equipment (including crane mats as necessary to distribute the load) to determine if it conforms to the limitation of 150 psf or less at the level of the roof.
- Area 3 (Ajax Drive) – This road should only have construction traffic that is similar to the loading that takes place during normal facility operations and that has historically crossed the Drain. This truck traffic load is limited to a gross vehicle weight of 80,000 lbs., 20,000 lbs. on a single axle, and 34,000 lbs. on a tandem axle group, which is consistent with FHWA guidelines for the Interstate Highway System. Construction truck traffic higher than this limit should not be permitted to cross over the Drain.
- Area 5 – While this area is over the expansion portion of the GWK Drain, construction truck traffic consistent to Area 3 may be permitted to drive over this area. In addition, light construction surcharge loading consistent with Area 6 may also be permitted.
- Area 6 – Light construction parking and storage may be permitted directly over the expansion portion of the GWK Drain. This sustained loading should be less than 150 psf at the roof of the drain (similar to Area 1). No light construction parking and storage should be permitted within 5 feet of the original constructed portion of the outside walls of GWK (approx. 70 ft width).

If conditions vary significantly from those assumed, or if you require further assistance, please do not hesitate to contact FK Engineering.

#### References:

Historical and Project Documents  
Communication with OCWRC

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

**FROM:** Shawn Phelps, Chief of Fiscal Services *FOR SHAWN PHELPS*  
OCWRC Accounting

**DATE:** February 28, 2023

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

<u>Payable To</u>	<u>Ref No.</u>	<u>For</u>	<u>Amount</u>
Orchard Hiltz & McCliment Inc	TBP	Invoice # 58712 - Professional Services - 12/31/22	\$ 1,755.83
Orchard Hiltz & McCliment Inc	TBP	Invoice # 58713 - Professional Services - 12/31/22	2,250.00
Dickinson Wright PLLC	V # SINV00160108	Invoice # 1769229 - Legal Services - 12/31/22	35,167.17
ICS Integration Services LLC	TBP	Invoice # 2632 - Contracted Services	357.00
Orchard Hiltz & McCliment Inc	TBP	Invoice # 59665 - Professional Services - 01/28/23	670.83
Orchard Hiltz & McCliment Inc	TBP	Invoice # 58520 - Professional Services - 01/28/23	1,071.50
		<b>Total</b>	<b>\$ 41,272.33</b>
ICS Integration Services LLC	TBP	Invoice # 2631 - Contracted Services	\$ 2,618.00
		<b>Subtotal Project # 1-3408</b>	<b>\$ 2,618.00</b>
		<b>Total</b>	<b>\$ 43,890.33</b>

**6. Evergreen-Farmington  
Sanitary Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE EVERGREEN-FARMINGTON SANITARY DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of January 24, 2023
3. Public Comments
4. Present Memorandum from Carrie Cox, P.E. – Special Projects Manager, dated February 28, 2023, requesting the Board approve the agreement between the Drainage District and the City of Lathrup Village and authorize the Chairperson to execute the agreement
5. Present Memorandum from Lesli Maes, Operations Engineer, dated February 28, 2023, requesting the Board approve the Eldon Street Pump Actuator Addition capital improvement project for the budgeted amount of \$50,000
6. Present Construction Estimate No. 11 for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$240,259.75 with a transfer to the Oakland County Treasurer in the amount of \$26,695.53
7. Present request for Board approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$635,552.10
8. Other business
9. Approve pro rata payment to Drainage Board members
10. Adjourn

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

January 24, 2023

A meeting of the Drainage Board for the Evergreen-Farmington Sanitary Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 24<sup>th</sup> day of January 2023.

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 December 13, 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 Evans Bantios, P.E. Project Engineer, dated January 24, 2023, requesting the Board approve the attached Amendment #1 contract with Meadowbrook Inc. for the increase in cost for the Owner Controlled Insurance Program (OCIP) Administrative Fee and Construction Safety Consultant and approve payment to Meadowbrook for the premium cost of \$1,520,192.75 for the OCIP was presented. It was moved by Woodward, supported by Nash, to approve the attached Amendment #1 contract with Meadowbrook Inc. for the increase in cost for the Owner Controlled Insurance Program (OCIP) Administrative Fee and Construction Safety Consultant and approve payment to Meadowbrook for the premium cost of \$1,520,192.75 for the OCIP as presented.

ADOPTED: Yeas - 2  
Nays - 0

A memorandum from Jeffrey Parrott, Supervisor Right of Way, dated January 24, 2023, requesting the Board authorize the Chairperson to execute an easement on behalf of the Board was presented. It was moved by Woodward, supported by Nash, to authorize the Chairperson to execute an easement on behalf of the Board as presented.

ADOPTED: Yeas - 2  
Nays - 0

A memorandum from Joel Kohn, Environmental Planner, dated January 24, 2023, requesting the Board approve \$50,000 for environmental staff to complete sampling work



within the Drainage District throughout the 2023 sampling season was presented. It was moved by Woodward, supported by Nash, to approve \$50,000 for environmental staff to complete sampling work within the Drainage District throughout the 2023 sampling season as presented.

ADOPTED: Yeas - 2  
Nays - 0

A memorandum from Philip Kerby, P.E., Operations Engineer, dated January 24, 2023, requesting the Board approve the Quarton Lake Rehab as a project to the capital improvement plan with a budget of \$30,000 and award engineering services to Hubbell, Roth and Clark, Inc. in the amount of \$15,000 was presented. It was moved by Woodward, supported by Nash, to approve the Quarton Lake Rehab as a project to the capital improvement plan with a budget of \$30,000 and award engineering services to Hubbell, Roth and Clark, Inc. in the amount of \$15,000 as presented.

ADOPTED: Yeas - 2  
Nays - 0

Construction Estimate No.2 for Construction of the Walnut No.3 Pump Station Rehabilitation in the amount of \$183,250.00 was presented. It was moved by Woodward, supported by Nash, to approve Construction Estimate No.2 for Construction of the Walnut No.3 Pump Station Rehabilitation in the amount of \$183,250.00 as presented.

ADOPTED: Yeas - 2  
Nays - 0

Construction Estimate No. 10 for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$649,417.04 with a transfer to the Oakland County Treasurer in the amount of \$72,157.45 was presented. It was moved by Woodward, supported by Nash, to approve Construction Estimate No. 10 for the 8 Mile Road Pump Station & SSO Chamber Improvements – Phase 1 in the amount of \$649,417.04 with a transfer to the Oakland County Treasurer in the amount of \$72,157.45 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 \$18,777.53 (as attached) was presented. It was moved by Woodward, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$18,777.53.

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.

A handwritten signature in blue ink, appearing to read "Jim Nash".

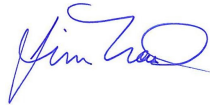
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Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Evergreen-Farmington Sanitary Drain, Oakland County, Michigan, held on the 24<sup>th</sup> day of January 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



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Jim Nash, Chairperson

Dated: January 24, 2023

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

**TO:** Jim Nash, Chairman  
Evergreen-Farmington Sanitary Drain Board

**FROM:** Carrie Cox, P.E. –Special Projects Manager

**SUBJECT:** City of Lathrup Village Project Cost Sharing Agreement

**DATE:** February 28, 2023

The Evergreen-Farmington Sewage Disposal System (EFSD) and the City of Lathrup Village have Administrative Consent Orders with the State of Michigan to eliminate sanitary sewer overflows per EGLE's Sanitary Sewer Overflow Policy Statement. It was determined that the most efficient project to improve water quality in the region was a joint project to increase the capacity of the Lathrup Village Sewage Retention Tank and grade separate the tank from the Evergreen Interceptor, allowing EFSD to push additional capacity downstream. This partnership between EFSD and the City of Lathrup Village will improve operations and the environment. The project benefits both parties and, therefore, costs are shared by both parties. The attached agreement was reviewed through a series of stakeholder meetings with representatives from both the EFSD and the City of Lathrup Village. The stakeholder group and WRC staff recommend approval of this agreement.

**Recommended Actions:**

**Approve the agreement between the Evergreen-Farmington Sanitary Drain Drainage District and the City of Lathrup Village as presented and authorize the Chairperson of the Board to execute the agreement.**

## **CITY OF LATHRUP VILLAGE PROJECT COST SHARING AGREEMENT**

This Agreement is made this January \_\_, 2023 by and between the Evergreen-Farmington Sanitary Drain Drainage District (“EFSD”), a Michigan statutory corporation organized pursuant to Chapter 20 of the Michigan Drain Code, Act No. 40 of the Public Acts of Michigan of 1956, as amended (“Drain Code”), by and through its drain board and City of Lathrup Village, a Michigan municipal corporation organized whose address is 27400 Southfield Road, Lathrup Village, Michigan 48076 (“City”). In this Agreement, either the EFSD or the City may also be referred to individually as a “Party” or jointly as the “Parties.”

### **Recitals:**

**WHEREAS**, the City owns a sanitary retention tank, including related components, as generally itemized in the attached **Exhibit A** and as it may be expanded or altered from time to time (the "System"); and

**WHEREAS**, the Parties have agreed to allocation of capital costs of certain improvements to the City’s System, including but not limited to its sanitary retention tank facilities, as is described in the attached **Exhibit B**, the Lathrup Village Sanitary Retention Tank Improvements, Preliminary Estimate of Project Costs revised January 3, 2023 (hereinafter referred to as the “Project” or “System Improvements”); and

**WHEREAS**, EFSD is managing the construction of the Project and System Improvements,

**WHEREAS**, the Parties each have been authorized to execute this Agreement according to the terms and conditions of this Agreement.

**NOW, THEREFORE**, in consideration of the mutual promises, representations, and agreements in this Agreement, and for other good and valuable consideration, the receipt and adequacy of which is acknowledged, the EFSD and the City mutually agree as follows:

### **Article I. Statement of Authority and Purpose.**

- 1.1. Authority. Pursuant to applicable laws of the state of Michigan, the EFSD and the City enter into this Agreement to establish terms and conditions for the sharing of costs for the Project for System Improvements. Each Party must take all actions reasonably necessary to effectuate the objectives in this Agreement.
- 1.2. Purpose. The purpose of this Agreement is to memorialize the Parties’ respective obligations to pay for the System Improvements.

### **Article II. Cost Sharing.**

- 2.1. Cost Sharing. Except as provided herein, the Parties are responsible as follows for the capital costs of the System Improvements: City 25% and EFSD 75%. The estimate of projects costs are described in Exhibit B. The percentage allocation will apply to all System Improvements capital costs even in the event of the Project costs exceed estimates.

- 2.2. Payment and Reimbursement of Project Costs. The City must pay the amounts owed under this Agreement within thirty (30) days of the City's receipt of invoicing from the EFSD. The City provides by virtue of this Agreement its prior written authorization for the expenditure of funds from the City's System Enterprise Fund and EFSD may, in its sole discretion, also arrange for payment from the System Enterprise Fund.

### **Article III. EFSD Responsibilities.**

- 3.1. Permit Assistance. Subject to rules and regulations which may be changed, developed or amended from time to time, the EFSD may assist the City in the procurement of all permits, guarantees, warranties, easements, licenses, and other similar approvals and consents necessary to construct the System Improvements. The Parties agree to fully cooperate and use good faith efforts to secure all necessary permits required by the state of Michigan, including but not limited to the Department of Energy, Great Lakes, and the Environment ("EGLE").
- 3.2. Project Management. EFSD is responsible for the project management of the Project and the construction of the System Improvements.

### **Article IV. City Responsibilities.**

- 4.1. Property Access. The City is responsible for and will secure the right of access to all property necessary for WRC Personnel or Contractors to perform the System Improvements. The City is responsible for all costs or claims associated with securing such rights of access.
- 4.2. Compliance with State and Federal Law and Regulations. The City is and will remain responsible for all costs associated with compliance with all federal, state, and local laws, ordinances, regulations, and requirements in any manner affecting any System Improvements or performance of this Agreement or with any City duty or obligation under any applicable state or federal laws and/or regulations or any operations, maintenance, or administration contract respecting the System.
- 4.3. The System Ownership. Notwithstanding any other term or condition in this Agreement, no provision in this Agreement is intended, nor shall it be construed, as constituting a divestiture or forfeiture of the City's absolute ownership of and authority over the System.
- 4.4. Payment. The City is responsible for the timely payment of amounts owed pursuant to this Agreement.

### **Article V. Force Majeure and No Third Party Beneficiary.**

- 5.1. Force Majeure; System Malfunction; Misuse or Vandalism of the System. The City is responsible for damage and liability to the System or components thereof caused by flood, fire, Acts of God or other force majeure, civil disturbance, Acts of War, terrorism or misuse of property. In addition, the City is responsible for all claims, damages and liability caused by design and/or construction defects, malfunction or failure of the System or any

component thereof, water loss, main breaks, hydrant damage and vandalism provided the same is not directly caused by the acts or omissions of EFSD Agents.

- 5.2. No Third Party Beneficiary. This Agreement does not create any rights or benefits to parties other than the City and the EFSD.

#### **Article VI. Cooperation, Communication, and Dispute Resolution.**

- 6.1. Dispute Resolution. The Parties agree that any and all claims alleging a breach of this Agreement must first be submitted to an alternative dispute resolution process. Such an alternative dispute resolution process may include, but is not limited to, facilitation, binding arbitration, or non-binding arbitration. The Parties must agree upon the form and procedures for the agreed upon alternative dispute resolution process. If the matter is not resolved through an alternative dispute resolution process, or if the Parties cannot agree upon the form and procedures for the alternative dispute resolution process, the Parties may seek legal recourse in a court of competent jurisdiction. For claims requiring immediate relief to prevent irreparable harm or for declaratory or injunctive relief, either Party may seek relief directly from a court of competent jurisdiction without submitting the matter to the alternative dispute resolution process.

#### **Article VII. Agreement Approval; Effective Date; and Amendments.**

- 7.1. Agreement Approval; Amendments; and Effective Date. Except as otherwise provided herein, this Agreement and/or any subsequent amendments shall not become effective before the approval by resolutions of both the City and the EFSD. The Effective Date of this Agreement, and any amendments hereto, must be the date as reflected in the opening paragraph of this Agreement.
- 7.2. Amendment. This Agreement may be amended only in a writing signed by the Parties.

#### **Article VIII. General Provisions.**

- 8.1. Governing Law. This Agreement is made and entered into in the state of Michigan and shall in all respects be interpreted, enforced and governed under the laws of the state of Michigan. The language of all parts of this Agreement is intended to and, in all cases, must be construed as a whole according to its fair meaning, and not construed strictly for or against any party. As used in this Agreement, the singular or plural number, possessive or non-possessive shall be deemed to include the other whenever the context so suggests or requires.
- 8.2. Reservation of Rights; Governmental Function. This Agreement does not, and is not intended to impair, divest, delegate, or contravene any constitutional, statutory, and/or other legal right, privilege, power, obligation, duty, or immunity of the Parties. In addition, the Parties maintain that the obligations set forth in this Agreement will be in the exercise or discharge of a governmental function.
- 8.3. Severability. If any provision of this Agreement or the application to any person or circumstance is, to any extent, judicially determined to be invalid or unenforceable, the

remainder of the Agreement, or the application of the provision of persons or circumstances other than those as to which it is invalid or unenforceable, is not affected and is enforceable, provided the invalid provision does not substantially alter the Agreement or make execution impractical.

- 8.4. Binding Contract; Assignment; and Amendments. This Agreement will be binding upon and for the benefit of the Parties hereto and their respective successors and assigns, subject to any assignment requiring the prior written consent of the non-assigning Party by an amendment to this Agreement signed by all Parties, and the assignee binding the assignee to the terms and provisions of this Agreement.
- 8.5. Captions. The section headings or titles and/or all section numbers in this Agreement are intended for the convenience of the reader and not intended to have any substantive meaning and are not to be interpreted as part of this Agreement.
- 8.6. Notices. Except as otherwise expressly provided herein, any and all correspondence, invoices, and/or any other written notices required, permitted or provided for under this Agreement to be delivered to the following:

EVERGREEN-FARMINGTON SANITARY DRAIN DRAINAGE DISTRICT

OAKLAND COUNTY WATER  
RESOURCES COMMISSIONER  
1 Public Works Drive  
Waterford, Michigan 48328

CITY

CITY OF LATHRUP VILLAGE  
27400 Southfield Road  
Lathrup Village, Michigan, 48076

- 8.7. Notice Delivery. Except with respect to notices of termination, all correspondence and written notices shall be considered delivered to a Party as of the date that such notice is deposited with sufficient postage with the U.S. Postal Service. Notices of termination must be personally delivered or sent by certified mail, return receipt requested, and shall be considered delivered to a party on the date of receipt as represented by the return receipt or by a proof of personal service.
- 8.8. Entire Agreement. This Agreement sets forth the entire agreement between the EFSD and the City and fully supersedes any and all prior agreements or understandings between them in any way related to the subject matter hereof. The terms and conditions herein are contractual and are not a mere recital and that there are no other agreements, understandings, contracts, or representations between the EFSD and the City in any way related to the subject matter hereof, except as expressly stated herein. This Agreement must not be changed or supplemented orally and may be amended only as otherwise provided herein.



8.9. Recitals and Exhibits. The recitals and exhibits are integral to this Agreement.

*[Signatures on following page]*

**IN WITNESS WHEREOF**, this Agreement is executed by the Parties on the date in the opening paragraph of this Agreement.

**EVERGREEN-FARMINGTON SANITARY DRAIN DRAINAGE DISTRICT**

By: \_\_\_\_\_  
Jim Nash, Chairperson  
Evergreen-Farmington Sanitary Drain Drainage  
District

Date: \_\_\_\_\_

**CITY OF LATHRUP VILLAGE**

By: \_\_\_\_\_  
Mykale Garrett, Mayor

Date: \_\_\_\_\_

By: \_\_\_\_\_  
Susan Montenegro, City Administrator

Date: \_\_\_\_\_

**EXHIBIT A**

**EXHIBIT B**

**Exhibit A**  
**Lathrup Village Sanitary Retention Tank**  
**Fund 57622 Site ID 80-001**  
Updated: 09/30/2020

Tier 1 - Fund ID	Tier 2 - Site ID	Tier 5 - Asset (Feature Class/Object Table)	Asset Type/Subtype	Asset Description	Tier 6 - Work Order Dropdown/Checkbox	Asset ID	In Service/Ins Fall Date
57622	80-001	WetWellNS	Wet Well	Reinforced Concrete Wet Well		1174159	1/1/1992
57622	80-001	StructureNS	Structure	Influent Meter Chamber Vault		1174172	1/1/1992
57622	80-001	FlowMeterNS	Magnetic	Influent Flow Meter FE-1		1174173	1/1/1992
57622	80-001	PlantValveNS	Plug	Influent Control Valve for SRT		1174131	1/1/1992
					Electric Motor Actuator		
57622	80-001	ComminutorGrinderNS	Comminutor/Grinder	Influent Comminutor		1174106	1/1/1992
57622	80-001	PumpNS	Centrifugal Pump	Influent Pump 1		1174132	1/1/1992
					Motor		
					Influent Pump 1 Motor Starter		
57622	80-001	PumpNS	Centrifugal Pump	Influent Pump 2		1174133	1/1/1992
					Motor		
					Influent Pump 2 Motor Starter		
57622	80-001	PumpNS	Centrifugal Pump	Influent Pump 3		1174134	1/1/1992
					Motor		
					Influent Pump 3 Motor Starter		
57622	80-001	PumpNS	Centrifugal Pump	Influent Pump 4		1174135	1/1/1992
					Motor		
					Influent Pump 4 Motor Starter		
57622	80-001	PumpNS	Centrifugal Pump	Influent Pump 5		1174136	1/1/1992
					Motor		
					Influent Pump 5 Motor Starter		
57622	80-001	PipingNS	Piping	Tank Influent Piping and Valves		1174128	1/1/1992
57622	80-001	PumpNS	Centrifugal Pump	Dewatering Pump 6		1174137	1/1/1992
					Motor		
					Dewatering Pump 6 Motor Starter		
57622	80-001	PumpNS	Centrifugal Pump	Dewatering Pump 7		1174138	1/1/1992
					Motor		
					Dewatering Pump 7 Motor Starter		
57622	80-001	PumpNS	Centrifugal Pump	Dewatering Pump 8		1174139	1/1/1992
					Motor		
					Influent Pump 8 Motor Starter		
57622	80-001	PumpNS	Centrifugal Pump	Dewatering Pump 9		1174140	1/1/1992
					Motor		
					Dewatering Pump 9 Motor Starter		
57622	80-001	FlowMeterNS	Magnetic	Dewatering Flow Meter, FE-3		1174115	1/1/1992
57622	80-001	PipingNS	Piping	Tank Dewatering Piping and Valves		1174129	1/1/1992
57622	80-001	PumpNS	Centrifugal Pump	Flushing Pump P-10		1174141	1/1/1992
					Motor		
					Flushing Pump 10 Motor Starter		
57622	80-001	PumpNS	Centrifugal Pump	Flushing Pump P-11		1174142	1/1/1992
					Motor		
					Flushing Pump 11 Motor Starter		

Tier 1 - Fund ID	Tier 2 - Site ID	Tier 5 - Asset (Feature Class/Object Table)	Asset Type/Subtype	Asset Description	Tier 6 - Work Order Dropdown/Checkbox	Asset ID	In Service/Ins Fall Date
57622	80-001	PumpNS	Centrifugal Pump	Flushing Pump P-12	Motor	1174143	1/1/1992
					Flushing Pump 12 Motor Starter		
57622	80-001	PipingNS	Piping	Flushing Water Piping and Valves	Solenoid Valve Panels	1174130	1/1/1992
57622	80-001	StorageTankNS	Basin	Flushing Water Storage Tank		1174149	1/1/1992
57622	80-001	StructureNS	Structure	Tank No. 1	Flushing Nozzles and Valves	1174151	1/1/1992
					Ventilation		
57622	80-001	StructureNS	Structure	Tank No. 2	Flushing Nozzles and Valves	1174152	1/1/1992
					Ventilation		
57622	80-001	SewerOdorControlNS	Odor Control System	Sodium Hypochlorite Packed Tower	Centrifugal Fan and Motor	1174148	1/1/1992
					Chemical Feed Pumps (2)		
					FRP Chemical Storage Tanks (2)		
					Chemical Feed Piping and Valves		
57622	80-001	CompressorNS	Air Compressor	Compressed Air System	Motor and Starter	1174108	1/1/1992
					Auxillary Air Receiver		
					Air Dryer and Filters		
					Compressed air piping and valves		
57622	80-001	PumpNS	Submersible Pumps	Dry Well Sump Pumps		1174144	1/1/1992
57622	80-001	PumpNS	Submersible Pumps	Meter Chamber Sump Pumps		1174145	1/1/1992
57622	80-001	SafetySecurityNS	General Safety	Eye wash stations and tempered water		1174147	1/1/1992
57622	80-001	ElevatorHoistNS	Hoist	Gantry/Hoist, 2 Ton		1174113	1/1/1992
57622	80-001	StructureNS	Building	Building, 1700 sqft	Plumbing and industrial water	1174153	1/1/1992
					Building and Finishes		
					Roof		
					Fencing and Gate		
57622	80-001	VentilationNS	Fan	Tank 1 Ventilation, EF-1		1174155	1/1/1992
57622	80-001	VentilationNS	Fan	Tank 2 Ventilation, EF-2		1174156	1/1/1992
57622	80-001	VentilationNS	Fan	Pipe Gallery Ventilation, EF-4		1174157	1/1/1992
57622	80-001	VentilationNS	Fan	Room, Stair and Wet Well Fans (fractional HP)		1174158	1/1/1992
57622	80-001	HeatingAndCoolingNS	Electric Unit Heaters	Building Unit Heaters		1174117	1/1/1992
57622	80-001	HeatingAndCoolingNS	Exchanger	Makeup air/heating unit HV-1		1174118	1/1/1992
57622	80-001	HeatingAndCoolingNS	Exchanger	Makeup air/heating unit HV-2		1174119	1/1/1992
57622	80-001	ElectricEquipmentNS	Electrical Service Equipment	Electrical Service Equipment	Utility Service Equipment	1174109	1/1/1992
					Main Disconnect Switch		
57622	80-001	ElectricEquipmentNS	Electrical Other	General Electrical	Breakers	1174110	1/1/1992
					Lighting		
					Receptacles		
57622	80-001	ElectricEquipmentNS	Motor Control Center	Motor Control Center		1272487	1/1/1992
57622	80-001	ElectricEquipmentNS	Distribution Equipment	Electrical Distribution Panel		1174111	1/1/1992
57622	80-001	ElectricEquipmentNS	Transfer Switch	Automatic Transfer Switch, 400 Amps		1174112	1/1/1992

Tier 1 - Fund ID	Tier 2 - Site ID	Tier 5 - Asset (Feature Class/Object Table)	Asset Type/Subtype	Asset Description	Tier 6 - Work Order Dropdown/Checkbox	Asset ID	In Service/Installation Date
57622	80-001	GeneratorNS	Electric Generator	Generator, 150kw, Diesel		1174116	1/1/1992
57622	80-001	StorageTankNS	Storage Tank	Generator base mounted, 250 gallon		1174150	1/1/1992
57622	80-001	InstrumentationNS	Transducer	Wet Well Level, LT-2		1174120	1/1/1992
57622	80-001	InstrumentationNS	Transducer	Tank 1 Level, LT-4		1174121	1/1/1992
57622	80-001	InstrumentationNS	Transducer	Tank 2 Level, LT-5		1174122	1/1/1992
57622	80-001	InstrumentationNS	Transducer	Flushing Water Storage Tank Level, LT-6		1174123	1/1/1992
57622	80-001	InstrumentationNS	Transducer	Influent Chamber Level		1174124	1/1/1992
57622	80-001	InstrumentationNS	Programmable Logic Controller (PLC)	PLC		1174125	1/1/1992
57622	80-001	InstrumentationNS	Control Panel	Controls		1174126	1/1/1992
					Panelview Display		
57622	80-001	InstrumentationNS	Control Panel	LVC (Not WRC) SCADA Control Panel		1174127	1/1/1992
					RTU Panel		
					Antenna Pole & Antenna		
57622	80-001	CommunicationEquipmentNS	Radio	LVC (Not WRC) SCADA Radio		1174107	1/1/1992
57622	80-001	StructureNS	Access Drive and Grounds	Site Drive and Grounds		1174154	1/1/1992

**Lathrup Village Sanitary Retention Tank Improvements**  
**PRELIMINARY ESTIMATE OF PROJECT COSTS**  
**REVISED: 1-03-2023**

	Project Costs
<b>1) Contracted Services: Construction Cost</b>	
<b>a</b> Engineers Estimate	\$ 2,215,771
<b>b</b> Add More if Multiple Phases/ Contracts	
<b>Subtotal Construction Cost</b>	<b>\$ 2,215,771</b>
<b>2) Engineering Consultants</b>	
<b>a</b> Design Phase	\$ 164,000
<b>b</b> Construction Administration	\$ 244,250
<b>Subtotal Engineering Consultants</b>	<b>\$ 408,250</b>
<b>3) Legal &amp; Financial (Examples)</b>	
<b>a</b> Easements	
<b>b</b> Legal Costs	\$ -
<b>c</b> Financial Consultant	\$ 5,000
<b>d</b> Bond Counsel	\$ 5,000
<b>e</b> OCIP Insurance (If needed quoted to Meadowbrook)	\$ 50,000
<b>f</b> Official Statement	\$ 40,000
<b>g</b> Wetland Mitigation (If needed)	
<b>Subtotal Legal &amp; Financial</b>	<b>\$ 100,000</b>
<b>4) County Services:</b>	
<b>a</b> Administration & General (ADM)	\$ 15,000
<b>b</b> Engineering (ENG)	\$ 100,000
<b>c</b> Right-Of-Way (ROW)	\$ 5,000
<b>d</b> Construction Inspection (INS)	\$ 236,800
<b>e</b> GIS Mapping (ADM)	\$ 5,000
<b>f</b> Operation Staff (STD)	\$ 20,000
<b>g</b> Survey (SUR)	\$ 15,000
	.
<b>Subtotal County Services</b>	<b>\$ 396,800</b>
<b>Project Subtotal</b>	<b>\$ 3,120,821</b>
<b>5) 10% Project Contingency</b>	<b>\$ 312,082</b>
<b>6) Less Anticipated Grant Funds</b>	
<b>7) Total Project Cost as of</b>	<b>\$ 3,432,903</b>
<b>8) Lathrup Village Portion - 25%</b>	<b>\$ 858,226</b>
<b>9) EFSD Portion - 75%</b>	<b>\$ 2,574,677</b>



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

**TO:** Jim Nash, Chairman  
Evergreen Farmington Sanitary Drain Drainage Board

**FROM:** Lesli Maes, Operations Engineer

**SUBJECT:** Eldon Street Pump Station  
Actuator Addition Project for Approval

**DATE:** February 28, 2023

WRC staff is recommending a capital improvement project to improve the operation of the Eldon Street Pump Station, located in Farmington Hills. This pump station operates during large wet weather events to overcome surcharged hydraulic conditions in the interceptor. During dry weather, sanitary flow travels through the site by gravity.

A project is recommended to address a flap gate located in this station. Because of the low volume of dry weather flow, it has been found that sanitary debris regularly becomes trapped in the flap gate. We recommend removal of the flap gate and replacing it with an actuated valve that will not impede dry weather flow through the site. The actuator will automatically close the valve if the level in the wet well begins to rise and pump operation is necessary. This will eliminate the clogging of the gravity line and still provide grade protection when the interceptor is surcharged.

This project has an estimated cost of \$50,000.

**Board Action Requested:**

**Approve the Eldon Street Pump Station Actuator Addition capital improvement project for the budgeted amount of \$50,000.**



**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. 11

January 1, 2023 to January 31, 2023

Department No. : 6010101  
 Fund No. : 58410  
 Project No. : 1-3181



Account No. : 730352  
 Program No. : 149667  
 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, 2, 3, 4, 5, 6, and 7.	\$50,177,000.25
Change Orders This Estimate Number:	
Total Net Change Orders:	\$50,177,000.25
<u>Adjusted Contract Amount:</u>	<u>\$50,177,000.25</u> ✓
Subtotal To Date: (Sheet 2 of 3 Column 7)	\$1,059,897.17
Less Deductions to Date: (Sheet 2 of 3 Column 7)	\$0.00
Gross Estimate: (Work in Place) <span style="float:right">2.11%</span>	\$1,059,897.17
Less Amount Reserved: (10% of Gross Estimate)	\$105,989.72 ✓
Total Amount Allowed To Date:	\$953,907.45
Less Previous Estimates:	\$713,647.70
Net Payment Request To Be Paid To Contractor:	\$240,259.75
Reserve Payment to Contractor	\$0.00
<u>Balance of Contract To Date</u> ✓ <span style="float:right">\$49,117,103.08</span>	Accounting Auditor: <u>BCR 2/2/2023</u>
Less Previous Transfers To Reserve:	✓ \$79,294.19
<u>Amount of Current Transfer:</u>	<u>\$26,695.53</u>

Prepared by: Evangelos Bantios  
 Evangelos Bantios, P.E. - Project Engineer

Date: 2/3/2023

Recommended by: Joseph Siwek  
 Joseph Siwek, P.E. - Consulting Engineer

Date: 2/3/2023

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

Date: 2/10/2023

Approved by: \_\_\_\_\_  
 Sid Lockhart, P.E. - Special Project Manager

Date: \_\_\_\_\_

Approved by Board on: \_\_\_\_\_

**JIM NASH  
 OAKLAND COUNTY WATER RESOURCES COMMISSIONER**

**CONSTRUCTION ESTIMATE**

**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. 11		(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		1.00	1.00	\$66,678.25	\$0.00
1B	bulk material fabrication and received			\$66,678.25	1.00		1.00	\$66,678.25	\$66,678.25
1C	install progress schedule			\$133,356.50			0.00	\$0.00	\$0.00
1D	Insurance and OH&P			\$18,756.59	0.25	0.25	0.50	\$9,378.30	\$4,689.15
2	OCO#2 Generator (Includes Insurance & OH&P)	1.00	LS	\$1,295,213.13					
2A	Approved submittals generator and docking station			\$181,516.80		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	\$0.00	\$0.00
2C	Delivery of docking station to job site			\$181,516.80			0.00	\$0.00	\$0.00
2D	Startup and testing of docking station			\$60,505.60			0.00	\$0.00	\$0.00
2E	Startup of generator arrives at job site			\$423,539.20			0.00	\$0.00	\$0.00
2F	Startup & testing of generator			\$84,707.84			0.00	\$0.00	\$0.00
2G	Final O&M, start documentation, training			\$36,303.36			0.00	\$0.00	\$0.00
2H	Insurance and OH&P			\$85,101.13		0.15	0.15	\$12,765.20	\$0.00
3	OCO#3 Electrical Equipment (Includes Insurance & OH&P)	1.00	LS	\$1,823,797.41			0.00	\$0.00	\$0.00
4	OCO#4 Pumps (Includes Insurance & OH&P)	1.00	LS	\$2,311,820.95			0.00	\$0.00	\$0.00
5	OCO#5 Valves & Actuators (Includes Insurance & OH&P)	1.00	LS	\$1,044,145.02			0.00	\$0.00	\$0.00
6	OCO#6 Electrical & Remaining Equipment (Includes Insurance & OH&P)	1.00	LS	\$3,005,633.15			0.00	\$0.00	\$0.00
7	Cash Allowance - DTE Electrical & Lighting Protection Required by DTE at	1.00	LS	\$60,000.00			0.00	\$0.00	\$0.00
8	Cash Allowance - Consumers Energy Gas	1.00	LS	\$15,000.00			0.00	\$0.00	\$0.00
9	Cash Allowance - Comcast Internet	1.00	LS	\$5,000.00			0.00	\$0.00	\$0.00
10	Cash Allowance - Purchase & Install Internet Booster	1.00	LS	\$15,000.00			0.00	\$0.00	\$0.00
11	Cash Allowance - AT&T Phone System Relocate	1.00	LS	\$15,000.00			0.00	\$0.00	\$0.00
12	Cash Allowance - Security Camera Relocate	1.00	LS	\$15,000.00			0.00	\$0.00	\$0.00
13	Cash Allowance - Unforeseen Utility Relocation	1.00	LS	\$100,000.00			0.00	\$0.00	\$0.00
14	Cash Allowance per DWGs - Consumers Energy 6" Gas Relocation	1.00	LS	\$100,000.00			0.00	\$0.00	\$0.00
15	Cash Allowance per DWGs - Phone System Install	1.00	LS	\$25,000.00			0.00	\$0.00	\$0.00
16	Cash Allowance per DWGs - Internet System Install	1.00	LS	\$25,000.00			0.00	\$0.00	\$0.00
17	Cash Allowance per DWGs - Boot on Power Lines & Raising AT&T Lines	1.00	LS	\$40,000.00			0.00	\$0.00	\$0.00
18	Cash Allowance per DWGs - Concrete & Asphalt Paving Work	1.00	LS	\$1,600,000.00			0.00	\$0.00	\$0.00
19	Cash Allowance per DWGs - Install of Antennas & Wiring at Pump Station & SSO	1.00	LS	\$50,000.00			0.00	\$0.00	\$0.00
20	Cash Allowance per DWGs - Bridge Crane Work (7.5 Tons)	1.00	LS	\$625,000.00			0.00	\$0.00	\$0.00
21	Cash Allowance per DWGs - Switchgear Design Changes	1.00	LS	\$50,000.00			0.00	\$0.00	\$0.00
22	Cash Allowance per DWGs - Landscape Allowance - 2026/2027 - Bid	1.00	LS	\$480,000.00			0.00	\$0.00	\$0.00
23	Cash Allowance per Meeting - Dewatering	1.00	LS	\$180,000.00			0.00	\$0.00	\$0.00
24	Cash Allowance per Meeting - Permits	1.00	LS	\$560,000.00	0.11		0.11	\$64,038.81	\$64,038.81
25	Cash Allowance per Meeting - Summer & Winter Conditions	1.00	LS	\$130,000.00			0.00	\$0.00	\$0.00
26	Cash Allowance per Meeting - Traffic Control	1.00	LS	\$479,800.00			0.00	\$0.00	\$0.00
27	Cash Allowance per Meeting - Vac Truck Services & TV Inspections	1.00	LS	\$480,000.00			0.00	\$0.00	\$0.00
28	Construction Staking	1.00	LS	\$94,600.00			0.00	\$0.00	\$0.00
29	Security	1.00	LS	\$570,300.00			0.00	\$0.00	\$0.00
30	Temporary Generators & Fuel	1.00	LS	\$155,000.00			0.00	\$0.00	\$0.00
31	Equipment Storage Off Site & Shipping	1.00	LS	\$40,000.00			0.00	\$0.00	\$0.00
32	Hydraulic Pump at Wet Well for Concrete Work	1.00	LS	\$85,000.00			0.00	\$0.00	\$0.00
33	Ventilation at Overflow Chamber	1.00	LS	\$40,000.00			0.00	\$0.00	\$0.00
34	Preconstruction & Final Photos	1.00	LS	\$10,000.00			0.00	\$0.00	\$0.00
35	Selective Demolition - Blue Star	1.00	LS	\$1,714,470.00			0.00	\$0.00	\$0.00
36	Cast In Place Concrete - Mobilization	1.00	LS	\$50,000.00			0.00	\$0.00	\$0.00
37	Cast In Place Concrete- Wet Well Shoring, FRP Lower Floor	1.00	LS	\$955,000.00			0.00	\$0.00	\$0.00
38	Cast In Place Concrete - Wet Well FRP Upper Floor	1.00	LS	\$409,000.00			0.00	\$0.00	\$0.00
39	Cast In Place Concrete - Yard Pipe Mud Mat & Electrical Ductbanks	1.00	LS	\$210,000.00			0.00	\$0.00	\$0.00
40	Cast In Place Concrete - Exterior Pads, Bollards, Temp Bulkhead, Building	1.00	LS	\$163,600.00			0.00	\$0.00	\$0.00
41	Cast In Place Concrete - Interior Pads, Wall Patching, Floor Infills, Pump & Misc.	1.00	LS	\$220,000.00			0.00	\$0.00	\$0.00
42	Cast In Place Concrete - Valve Vault	1.00	LS	\$400,000.00			0.00	\$0.00	\$0.00
43	Cast In Place Concrete - Overflow Chamber Gate Structure	1.00	LS	\$400,000.00			0.00	\$0.00	\$0.00
44	Cast In Place Concrete - Overflow Chamber Modify Existing Overflow Structure	1.00	LS	\$950,000.00			0.00	\$0.00	\$0.00
45	Cast In Place Concrete - Demobilization	1.00	LS	\$25,000.00			0.00	\$0.00	\$0.00
46	Hollow Core Planks Fabcon Precast	1.00	LS	\$28,000.00			0.00	\$0.00	\$0.00
47	Masonry Work - BNE	1.00	LS	\$133,168.00			0.00	\$0.00	\$0.00
48	Metals - Ross Steel	1.00	LS	\$1,036,000.00			0.00	\$0.00	\$0.00
49	Rough Carpentry - Temp & Final Doors	1.00	LS	\$55,000.00			0.00	\$0.00	\$0.00
50	Rough Carpentry - Temp Wall for Roof Removal	1.00	LS	\$57,000.00			0.00	\$0.00	\$0.00
51	Rough Carpentry - Scaffold Plank at Floor Openings	1.00	LS	\$21,000.00			0.00	\$0.00	\$0.00
52	Rough Carpentry - Floor Protection	1.00	LS	\$38,700.00			0.00	\$0.00	\$0.00
53	Waterproofing/Joint Sealant - BNE	1.00	LS	\$49,329.00			0.00	\$0.00	\$0.00
54	EPDM Roofing - Royal Roofing	1.00	LS	\$396,900.00			0.00	\$0.00	\$0.00
55	Access Doors and Frames	1.00	LS	\$31,392.00			0.00	\$0.00	\$0.00
56	Overhead Doors - GLDD	1.00	LS	\$21,275.00			0.00	\$0.00	\$0.00
57	Painting - Signature	1.00	LS	\$427,000.00			0.00	\$0.00	\$0.00
58	Process Equipment Identifications	1.00	LS	\$5,000.00			0.00	\$0.00	\$0.00
59	Metal Canopies & Bike Racks	1.00	LS	\$25,700.00			0.00	\$0.00	\$0.00
60	Passenger Elevator	1.00	LS	\$40,000.00			0.00	\$0.00	\$0.00
61	Heating, Ventilating and Air Conditioning - DeCal	1.00	LS	\$751,690.00			0.00	\$0.00	\$0.00
62	Engine Generators & Startup Fuel	1.00	LS	\$25,000.00			0.00	\$0.00	\$0.00
63	Site Work - Mobilization	1.00	LS	\$100,000.00			0.00	\$0.00	\$0.00
64	Site Work - Install Laydown & Excavate & Backfill Temporary Utilities	1.00	LS	\$690,000.00			0.00	\$0.00	\$0.00
65	Site Work - Dig, Install, Backfill Storm, Water Mains, Fire Hydrant	1.00	LS	\$675,000.00			0.00	\$0.00	\$0.00
66	Site Work - Dig, Backfill Electrical Ductbanks	1.00	LS	\$36,000.00			0.00	\$0.00	\$0.00
67	Site Work - Site Demo Pump Station	1.00	LS	\$125,000.00			0.00	\$0.00	\$0.00
68	Site Work Dig & Backfill Yard Pipe & Precast Manholes & Site CIP Concrete	1.00	LS	\$877,000.00			0.00	\$0.00	\$0.00
69	Site Work Dig & Backfill Valve Vault	1.00	LS	\$280,000.00			0.00	\$0.00	\$0.00
70	Site Work Demo Overflow Chamber From Grade to -15'	1.00	LS	\$554,200.00			0.00	\$0.00	\$0.00
71	Site Work Demo Overflow Chamber From -15' to BOE	1.00	LS	\$370,000.00			0.00	\$0.00	\$0.00
72	Site Work Backfill & Road Prep Overflow Chamber	1.00	LS	\$380,000.00			0.00	\$0.00	\$0.00
73	Site Work Demo Laydown, Temp Utilities, Restore Pump Station & Laydown	1.00	LS	\$200,000.00			0.00	\$0.00	\$0.00
74	Site Work Demobilize	1.00	LS	\$45,000.00			0.00	\$0.00	\$0.00
75	Temporary Earth Retention System (Chamber) - EC Korneffel	1.00	LS	\$944,678.00			0.00	\$0.00	\$0.00
76	Temporary Paving Work - Sidewalks at Trailers	1.00	LS	\$20,000.00			0.00	\$0.00	\$0.00
77	Temporary Paving Work - Parking Lot Patches	1.00	LS	\$41,000.00			0.00	\$0.00	\$0.00
78	Temporary Paving Work - Minnor 8 Mile Road Patch	1.00	LS	\$20,000.00			0.00	\$0.00	\$0.00
79	Temporary Paving Work - Approaches, Temp Roads & Crane Pad	1.00	LS	\$50,000.00			0.00	\$0.00	\$0.00
80	Chain Link Fences and Gates - Future Fence	1.00	LS	\$161,686.00			0.00	\$0.00	\$0.00
81	Process & Plumbing Systems - DeCal	1.00	LS	\$6,526,000.00			0.00	\$0.00	\$0.00
82	Instrumentation and Control for Process Systems - ICS	1.00	LS	\$998,000.00			0.00	\$0.00	\$0.00
83	General Conditions Staffing	1.00	LS	\$6,550,618.00	0.02	0.02	0.04	\$233,950.64	\$116,975.32
84	General Requirements- Trailer City Mobilize & Trailer Setup	1.00	LS	\$100,000.00			0.00	\$0.00	\$0.00
85	General Requirements- Trailer City Trailer Rental & Monthly Expenses	1.00	LS	\$224,310.00			0.00	\$0.00	\$0.00
86	General Requirements- Trailer City Trailer Technology Equipment	1.00	LS	\$35,000.00			0.00	\$0.00	\$0.00
87	General Requirements- Trailer City Demobilization	1.00	LS	\$25,000.00			0.00	\$0.00	\$0.00
88	General Requirements- Temp. Const. Signs, Conc. Brriers, Tool Storage, Storage	1.00	LS	\$99,592.00			0.00	\$0.00	\$0.00
89	General Requirements- Temp. Const. FE, Fence Maintenance, Snow Fence, Ladders,	1.00	LS	\$73,366.00			0.00	\$0.00	\$0.00

CONSTRUCTION ESTIMATE

90	General Requirements- Temp. Const. Printing	1.00	LS	\$15,000.00			0.00	\$0.00	\$0.00
91	General Requirements- Temp. Const. Skid Steer Rental	1.00	LS	\$10,000.00			0.00	\$0.00	\$0.00
92	General Requirements- Temp. Const. Remove Storage Compound & Punch List	1.00	LS	\$30,000.00			0.00	\$0.00	\$0.00
93	General Requirements- Temp. Utilities & Equipment Hand Washing Station	1.00	LS	\$5,000.00			0.00	\$0.00	\$0.00
94	General Requirements- Temp. Utilities & Equipment Temp Toilets, Drinking Water,	1.00	LS	\$98,750.00			0.00	\$0.00	\$0.00
95	General Requirements- Temp. Utilities & Equipment-Hydrant Water & Dust Control	1.00	LS	15,500.00			0.00	\$0.00	\$0.00
96	General Requirements- Temp. Utilities & Equipment - Telehandler/Equipment with	1.00	LS	88,346.00			0.00	\$0.00	\$0.00
97	General Requirements- Temp. Utilities & Equipment - Street Sweeping	1.00	LS	62,500.00			0.00	\$0.00	\$0.00
98	General Requirements- Temp. Utilities & Equipment - Scaffolding for Stair Towers	1.00	LS	50,000.00			0.00	\$0.00	\$0.00
99	General Requirements- Safety Handrails at Floor & Roof Openings	1.00	LS	27,000.00			0.00	\$0.00	\$0.00
100	General Requirements- Safety Supplies, Periodic Cleanup, Maintenance	1.00	LS	73,000.00			0.00	\$0.00	\$0.00
101	General Requirements- Safety Snow Removal & Drug Tests	1.00	LS	26,000.00			0.00	\$0.00	\$0.00
102	General Requirements- Safety Final Cleanup	1.00	LS	40,000.00			0.00	\$0.00	\$0.00
103	General Requirements- Labor, Carpenter & Truck	1.00	LS	643,069.00			0.00	\$0.00	\$0.00
104	Performance and Payment Bonds	1.00	LS	378,135.00		1.00	1.00	\$378,135.00	\$0.00
105	General Liability Insurance - Supplementary to OCIP	1.00	LS	202,100.00	0.01		0.01	\$2,636.46	\$2,636.46
106	Contingency	1.00	LS	1,294,753.00			0.00	\$0.00	\$0.00
107	FEE 6.5%	1.00	LS	2,466,394.00	0.005	0.01	0.02	\$44,119.46	\$11,937.29
108									
109									

Change Orders:

							0.00	0.00	\$0.00	\$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	\$1,059,897.17
Total Amount This Estimate	\$266,955.28
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	\$1,059,897.17
Subtotal This Estimate	\$266,955.28
Deductions to Date	\$0.00
Deductions This Estimate	\$0.00
Payment This Estimate	\$266,955.28
Less Transfer to Reserve	\$26,695.53
Net Payment	\$240,259.75

**CONTRACTOR'S DECLARATION**

The undersigned, on behalf of Walsh Construction Company II, LLC ("Contractor"), hereby declares that the Contractor has not, during the period commencing with the start of the Work which is the subject of the Contract defined below to following date: February 2nd, 2023, performed any Work, furnished any material, sustained any loss, damage or delay for any reason, including soil conditions encountered or created, or otherwise done anything for which Contractor shall ask, demand, sue for, or claim compensation from the Evergreen Farmington Sanitary Drain Drainage District ("Owner"), or its agents, in addition to the original scope of Work specified in Oakland County Purchasing Contract Number 6628 and , on this 2nd day of February, 2023 between Contractor and Owner, and in the Change Orders for additional or extra Work issued by the Owner, in writing, as provided thereunder and/or extension of time, except as set forth on the itemized statement attached hereto.

There  is  is not an itemized statement attached.

Date: 2-2-2023

Contractor: Walsh Construction  
Signature: *Ryan Beaudrie*  
Name: Ryan Beaudrie  
Title: Project Manager

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the EVERGREEN - FARMINGTON SANITARY DRAIN SYSTEM

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting *SL FOR SHAWN PHELPS*

**DATE:** February 28, 2023

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

Date	Ref No.	Paid To	For	Amount
	TBP	Orchard Hiltz & McCliment Inc	Invoice # 58712 - Contracted Services - 12/31/22	\$ 1,755.83
	TBP	Orchard Hiltz & McCliment Inc	Invoice # 59665 - Contracted Services - 01/28/23	\$ 670.83
			<b>Total</b>	<u>\$ 670.83</u>
	V # SINV00161576	Sigma Associates Inc	Invoice #653.000- 0009939 - Engineering Services- 9/25/22 - 12/31/22	\$ 8,994.48
			<b>Subtotal Project # 1-7051</b>	<u>8,994.48</u>
	V # SINV00161575	Fishbeck	Invoice #419589 - Contracted Services - 01/20/23	\$ 18,386.79
	V # SINV00160110	DVM Utilities Inc	Invoice #OCFARM-5 - Contracted Services	287,500.00
		DVM Utilities Inc	Invoice #OCFARM-6 - Contracted Services	320,000.00
			<b>Subtotal Project # 1-3530</b>	<u>625,886.79</u>
			<b>Grand Total</b>	<u>\$ 635,552.10</u>

## **7. Brooklyn Relief Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE BROOKLYN RELIEF DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of March 24, 2020
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$5,100
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn



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

March 24, 2020

A meeting of the Drainage Board for the George W. Kuhn Drain was held via teleconference due to the COVID-19 pandemic at 2:00 p.m. on the 24<sup>th</sup> day of March, 2020.

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

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

ABSENT: None

Minutes of the meeting held August 23, 2016 were presented for consideration. It was moved by Zack, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

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

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$5,622 for the Brooklyn Relief Drain (as attached) were presented. It was moved by Zack, supported by Woodward, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$5,622 as presented.

ADOPTED: Yeas - 3  
Nays - 0

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

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 of the Brooklyn Relief Drain, Oakland County, Michigan, held on the 24<sup>th</sup> day of March, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: April 8, 2020

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

Assessment for estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	03/24/20	
Last Assessment:		\$5,622
Current Available Cash:		\$800

Expenditure History:	Fiscal Year	Amount
	2016	\$1,447
	2017	\$814
	2018	\$972
	2019	\$1,921
	2020	\$1,690
	2021	\$1,274
	2022	\$1,131

Estimated Expenditures:	Year	Amount
	2023	\$1,700
	2024	\$1,700
	2025	\$1,700
	<b>Total</b>	<b>\$5,100</b>

**Recommended Assessment:**

Current Cash Deficit	\$0
Total Anticipated Expenses 2023 - 2025	\$5,100

**TOTAL RECOMMENDED ASSESSMENT \$5,100**

Prepared by: Michael R. McMahon Date: 2/28/2023  
 Michael R. McMahon, P.E. - Chief Engineer

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

Note: Current Available Cash as of December 31, 2022, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE BROOKLYN RELIEF DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Pontiac	100.00%	\$ 5,100.00	\$ 5,100.00	-	-
<b>Total</b>	<b>100.00%</b>	<b>\$ 5,100.00</b>	<b>\$ 5,100.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 7/19/1967.

Assessment Payment Due Date(s): Payment #1 03/31/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Brooklyn Relief Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Brooklyn Relief Drain

The foregoing Special Assessment Roll for the maintenance of the Brooklyn Relief Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Brooklyn Relief Drain

## **8. Gronkowski Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE GRONKOWSKI DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of November 27, 2018
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$10,693
5. Other business
6. Approve pro rata payment to Drainage Board Members
7. Adjourn

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

November 27, 2018

A meeting of the Drainage Board for the Gronkowski 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 27<sup>th</sup> day of November, 2018.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

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

Michael Gingell, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held November 18, 2014 were presented for consideration. It was moved by Middleton, supported by Gingell, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

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

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$14,285 for the Gronkowski Drain (as attached) were presented. It was moved by Gingell, supported by Middleton, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$14,285 as presented.

ADOPTED: Yeas - 3  
Nays - 0


A request for reimbursement of the Drain Revolving Fund in the amount of \$3,778.82 (as attached) was presented. It was moved by Middleton supported by Gingell, that the Drain Revolving Fund be reimbursed in the amount of \$3,778.82.

ADOPTED: Yeas - 3  
Nays - 0

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

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 Gronkowski Drain, Oakland County, Michigan, held on the 27<sup>th</sup> day of November, 2018, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: December 11, 2018



**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Gronkowski Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	11/27/18	
Last Assessment:		\$14,285
Current Available Cash:		(\$193)

Expenditure History:	Fiscal Year	Amount
	2016	\$965
	2017	\$3,010
	2018	\$7,748
	2019	\$4,211
	2020	\$3,283
	2021	\$1,441
	2022	\$1,207

Estimated Expenditures:	Year	Amount
	2023	\$3,500
	2024	\$3,500
	2025	\$3,500
	<b>Total</b>	<b>\$10,500</b>

**Recommended Assessment:**

Current Cash Deficit	\$193
Total Anticipated Expenses 2023 - 2025	\$10,500

**TOTAL RECOMMENDED ASSESSMENT \$10,693**

Prepared by: Michael R. McMahon Date: 2/28/2023  
 Michael R. McMahon, P.E. - Chief Engineer

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

Note: Current Available Cash as of December 31, 2022, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE GRONKOWSKI DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Southfield	93.335%	\$ 9,980.31	\$ 9,980.31	-	-
County of Oakland	6.665%	\$ 712.69	\$ 712.69	-	-
<b>Total</b>	<b>100.000%</b>	<b>\$ 10,693.00</b>	<b>\$ 10,693.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 4/10/1973.

Assessment Payment Due Date(s): Payment #1 03/31/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Gronkowski Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Gronkowski Drain

The foregoing Special Assessment Roll for the maintenance of the Gronkowski Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Gronkowski Drain

## **9. Horton Relief Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE HORTON RELIEF DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of June 30, 2016
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$6,000
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

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

June 30, 2016

A meeting of the Drainage Board for the Horton Relief Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 30<sup>th</sup> day of June, 2016.

The meeting was called to order by the Chairperson.

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

Michael Spisz, Vice Chairperson of the Oakland County Board of Commissioners

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

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

Minutes of the meeting held December 16, 2014 were presented for consideration.  
It was moved by Spisz, 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 reimbursement of the Drain Revolving Fund in the amount of \$993.47 (as attached) was presented. It was moved by Spisz, supported by Nash, that the invoices in the amount of \$993.47 be paid as presented.

ADOPTED: Yeas - 2  
Nays - 0

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

ADOPTED: Yeas - 2  
Nays - 0

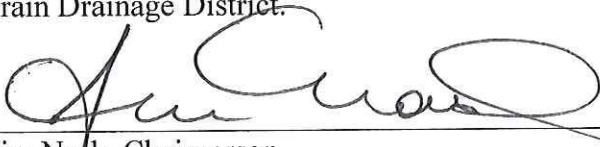
There being no further business, the meeting was adjourned.

  
\_\_\_\_\_  
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 Horton Relief Drain, Oakland County, Michigan, held on the 30<sup>th</sup> day of June, 2016, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: July 7<sup>th</sup>, 2016

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

Assessment for estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	11/18/14	
Last Assessment:		\$28,530
Current Available Cash:		\$847

Expenditure History:	Fiscal Year	Amount
	2016	\$1,418
	2017	\$18
	2018	\$250
	2019	\$815
	2020	\$2,288
	2021	\$647
	2022	\$1,708

Estimated Expenditures:	Year	Amount
	2023	\$2,000
	2024	\$2,000
	2025	\$2,000
	<b>Total</b>	<b>\$6,000</b>

**Recommended Assessment:**

Current Cash Deficit	\$0
Total Anticipated Expenses 2023 - 2025	\$6,000

**TOTAL RECOMMENDED ASSESSMENT \$6,000**

Prepared by: Michael R. McMahon Date: 2/28/2023  
 Michael R. McMahon, P.E. - Chief Engineer

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

Note: Current Available Cash as of December 31, 2022, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE HORTON RELIEF DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Southfield	100.00%	\$ 6,000.00	\$ 6,000.00	-	-
<b>Total</b>	<b>100.00%</b>	<b>\$ 6,000.00</b>	<b>\$ 6,000.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 10/9/1968.

Assessment Payment Due Date(s): Payment #1 03/31/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Horton Relief Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Horton Relief Drain

The foregoing Special Assessment Roll for the maintenance of the Horton Relief Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Horton Relief Drain



## **10. Jensen Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE JENSEN DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of June 25, 2019
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$33,373
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

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

June 25, 2019

A meeting of the Drainage Board for the Jensen 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 25<sup>th</sup> day of June 2019.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Chairperson and Oakland County Water Resources Commissioner  
David Woodward, Chairperson of the Oakland County Board of Commissioners  
Gwen Markham, Vice Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None

Minutes of the meeting held April 24, 2018 were presented for consideration. It was moved by Woodward, supported by Markham, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

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

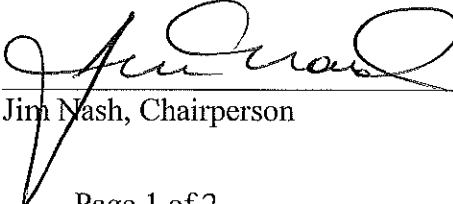
A request for reimbursement of the Drain Revolving Fund in the amount of \$255.92 (as attached) was presented. It was moved by Markham, supported by Woodward, that the Drain Revolving Fund be reimbursed in the amount of \$255.92.

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 Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

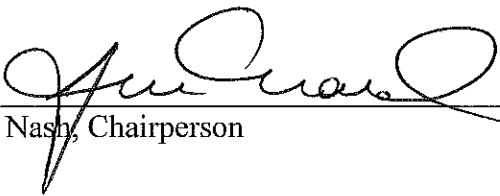
There being no further business, the meeting was adjourned.

  
\_\_\_\_\_  
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 of the Jensen Drain, Oakland County, Michigan, held on the 25<sup>th</sup> day of June 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 Jensen Drain Drainage District.

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: 7/3, 2019

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Jensen Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	01/23/18	
Last Assessment:		\$120,390
Current Available Cash:		(\$973)

Expenditure History:	Fiscal Year	Amount
	2016	\$10,190
	2017	\$1,838
	2018	\$7,279
	2019	\$9,118
	2020	\$10,983
	2021	\$9,188
	2022	\$8,186

Estimated Expenditures:	Year	Amount
	2023	\$9,900
	2024	\$9,900
	2025	\$9,900
	<b>Total</b>	<b>\$29,700</b>

**Recommended Assessment:**

Current Cash Deficit	\$973
Total Anticipated Expenses 2023 - 2025	\$29,700
Proposed Special Maintenance Expenses	\$2,700

**TOTAL RECOMMENDED ASSESSMENT \$33,373**

Prepared by: Michael R. McMahon Date: 2/28/2023  
Michael R. McMahon, P.E. - Chief Engineer

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

Note: Current Available Cash as of December 31, 2022, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE JENSEN DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Rochester Hills	95.64%	\$ 31,917.94	\$ 31,917.94	-	-
County of Oakland	4.36%	\$ 1,455.06	\$ 1,455.06	-	-
<b>Total</b>	<b>100.00%</b>	<b>\$ 33,373.00</b>	<b>\$ 33,373.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 7/31/1990.

Assessment Payment Due Date(s): Payment #1 03/31/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Jensen Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Jensen Drain

The foregoing Special Assessment Roll for the maintenance of the Jensen Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Jensen Drain

## **11. Jilbert Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE JILBERT DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of July 23, 2019
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$10,500
- 5.
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn



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

July 23, 2019

A meeting of the Drainage Board for the Jilbert 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 23<sup>rd</sup> day of July 2019.

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

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

ABSENT: None

Minutes of the meeting held April 23, 2019 were presented for consideration. It was moved by Zack, 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.

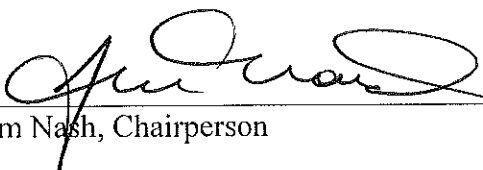
A request for reimbursement of the Drain Revolving Fund in the amount of \$90,489.85 (as attached) was presented. It was moved by Zack, supported by Woodward, that the Drain Revolving Fund be reimbursed in the amount of \$90,489.85.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Woodward, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Zack 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 of the Jilbert Drain, Oakland County, Michigan, held on the 23<sup>rd</sup> day of July 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 Jilbert Drain Drainage District.

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: 8/5, 2019

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Jilbert Drain**

Assessment for estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	04/23/19	
Last Assessment:		\$134,842
Current Available Cash:		\$2,489

Expenditure History:	Fiscal Year	Amount
	2016	\$19,510
	2017	\$5,647
	2018	\$3,626
	2019	\$4,848
	2020	\$3,381
	2021	\$3,353
	2022	\$2,190

Estimated Expenditures:	Year	Amount
	2023	\$3,500
	2024	\$3,500
	2025	\$3,500
	<b>Total</b>	<b>\$10,500</b>

**Recommended Assessment:**

Current Cash Deficit	\$0
Total Anticipated Expenses 2023 - 2025	\$10,500

**TOTAL RECOMMENDED ASSESSMENT \$10,500**

Prepared by: Michael R. McMahon Date: 2/28/2023  
Michael R. McMahon, P.E. - Chief Engineer

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

Note: Current Available Cash as of December 31, 2022, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE JILBERT DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Southfield	94.1523%	\$ 9,885.99	\$ 9,885.99	-	-
County of Oakland	5.8477%	\$ 614.01	\$ 614.01	-	-
<b>Total</b>	<b>100.000%</b>	<b>\$ 10,500.00</b>	<b>\$ 10,500.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 5/19/1969.

Assessment Payment Due Date(s): Payment #1 03/31/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Jilbert Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Jilbert Drain

The foregoing Special Assessment Roll for the maintenance of the Jilbert Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Jilbert Drain

## **12. Oaks Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE OAKS DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of March 24, 2020
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$11,689
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

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

March 24, 2020

A meeting of the Drainage Board for the Oaks Drain was held via teleconference due to the COVID-19 pandemic at 2:00 p.m. on the 24<sup>th</sup> day of March, 2020.

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

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

ABSENT: None

Minutes of the meeting held August 20, 2013 were presented for consideration. It was moved by Zack, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

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

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$10,138 for the Oaks Drain (as attached) were presented. It was moved by Zack, supported by Woodward, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$10,138 as presented.

ADOPTED: Yeas - 3  
Nays - 0

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

ADOPTED: Yeas - 3  
Nays - 0

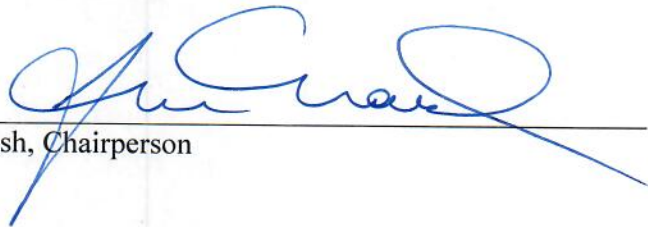
There being no further business, the meeting was adjourned.

  
\_\_\_\_\_  
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 of the Oaks Drain, Oakland County, Michigan, held on the 24<sup>th</sup> day of March, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



---

Jim Nash, Chairperson

Dated: April 8, 2020



**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Oaks Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	03/24/20	
Last Assessment:		\$10,138
Current Available Cash:		(\$1,789)

Expenditure History:	Fiscal Year	Amount
	2016	\$1,965
	2017	\$1,710
	2018	\$1,877
	2019	\$2,662
	2020	\$3,292
	2021	\$2,714
	2022	\$3,273

Estimated Expenditures:	Year	Amount
	2023	\$3,300
	2024	\$3,300
	2025	\$3,300
	<b>Total</b>	<b>\$9,900</b>

**Recommended Assessment:**

Current Cash Deficit	\$1,789
Total Anticipated Expenses 2023 - 2025	\$9,900

**TOTAL RECOMMENDED ASSESSMENT \$11,689**

Prepared by: Michael R. McMahon Date: 2/28/2023  
 Michael R. McMahon, P.E. - Chief Engineer

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

Note: Current Available Cash as of December 31, 2022, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE OAKS DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Pontiac	100.00%	\$ 11,689.00	\$ 11,689.00	-	-
<b>Total</b>	<b>100.00%</b>	<b>\$ 11,689.00</b>	<b>\$ 11,689.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 7/23/1991.

Assessment Payment Due Date(s): Payment #1 03/31/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Oaks Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Oaks Drain

The foregoing Special Assessment Roll for the maintenance of the Oaks Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Oaks Drain

## **13. Palmer Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE PALMER DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of March 24, 2020
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$6,891
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

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

March 24, 2020

A meeting of the Drainage Board for the Palmer Drain was held via teleconference due to the COVID-19 pandemic at 2:00 p.m. on the 24<sup>th</sup> day of March, 2020.

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

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

ABSENT: None

Minutes of the meeting held May 24, 2016 were presented for consideration. It was moved by Zack, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

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

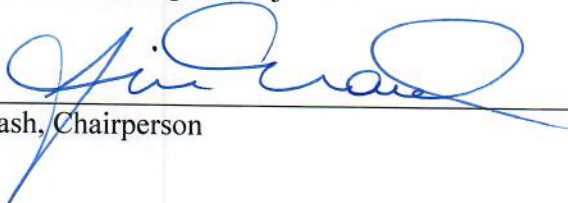
A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$8,145 for the Palmer Drain (as attached) were presented. It was moved by Zack, supported by Woodward, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$8,145 as presented.

ADOPTED: Yeas - 3  
Nays - 0

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

ADOPTED: Yeas - 3  
Nays - 0

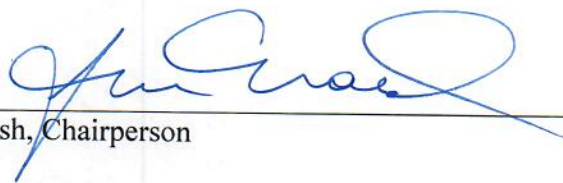
There being no further business, the meeting was adjourned.

  
\_\_\_\_\_  
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 of the Palmer Drain, Oakland County, Michigan, held on the 24<sup>th</sup> day of March, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



\_\_\_\_\_  
Jim Nash, Chairperson

Dated: April 8, 2020

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Palmer Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	03/24/20	
Last Assessment:		\$8,145
Current Available Cash:		(\$291)

Expenditure History:	Fiscal Year	Amount
	2016	\$2,918
	2017	\$884
	2018	\$1,316
	2019	\$1,451
	2020	\$1,541
	2021	\$3,384
	2022	\$1,307

Estimated Expenditures:	Year	Amount
	2023	\$2,200
	2024	\$2,200
	2025	\$2,200
	<b>Total</b>	<b>\$6,600</b>

**Recommended Assessment:**

Current Cash Deficit	\$291
Total Anticipated Expenses 2023 - 2025	\$6,600

**TOTAL RECOMMENDED ASSESSMENT \$6,891**

Prepared by: Michael R. McMahon Date: 2/28/2023  
 Michael R. McMahon, P.E. - Chief Engineer

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

Note: Current Available Cash as of December 31, 2022, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE PALMER DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Pontiac	100.00%	\$ 6,891.00	\$ 6,891.00	-	-
<b>Total</b>	<b>100.00%</b>	<b>\$ 6,891.00</b>	<b>\$ 6,891.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 4/26/1994.

Assessment Payment Due Date(s): Payment #1 03/31/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Palmer Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Palmer Drain

The foregoing Special Assessment Roll for the maintenance of the Palmer Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Palmer Drain



## **14. Sue Ann Douglas Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE SUE ANN DOUGLAS DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2020
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$7,883.00
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE SUE ANN DOUGLAS DRAIN**

February 25, 2020

A meeting of the Drainage Board for the Sue Ann Douglas Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 11:30 a.m. on the 25<sup>th</sup> day of February, 2020.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

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

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

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

Minutes of the meeting held September 25, 2018 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.

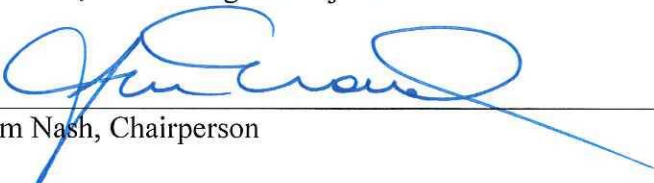
A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$6,700 for the Sue Ann Douglas Drain (as attached) were presented. It was moved by Markham, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$6,700 as presented.

ADOPTED: Yeas - 2  
Nays - 0

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

ADOPTED: Yeas - 2  
Nays - 0

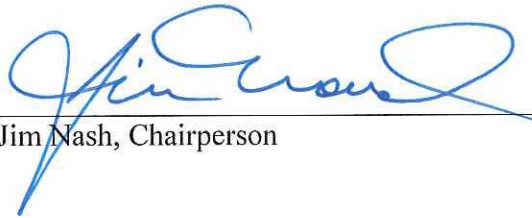
There being no further business, the meeting was adjourned.

  
\_\_\_\_\_  
Jim Nash, Chairperson

STATE OF MICHIGAN            )  
  )SS.  
COUNTY OF OAKLAND        )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Sue Ann Douglas Drain, Oakland County, Michigan, held on the 25<sup>th</sup> day of February, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



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Jim Nash, Chairperson

Dated: March 9, 2020

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Sue Ann Douglas Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	02/25/20	
Last Assessment:		\$6,700
Current Available Cash:		(\$983)

Expenditure History:	Fiscal Year	Amount
	2016	\$899
	2017	\$1,946
	2018	\$1,040
	2019	\$1,435
	2020	\$2,485
	2021	\$1,468
	2022	\$3,863

Estimated Expenditures:	Year	Amount
	2023	\$2,300
	2024	\$2,300
	2025	\$2,300
	<b>Total</b>	<b>\$6,900</b>

**Recommended Assessment:**

Current Cash Deficit	\$983
Total Anticipated Expenses 2023 - 2025	\$6,900

**TOTAL RECOMMENDED ASSESSMENT \$7,883**

Prepared by: Michael R. McMahon Date: 2/28/2023  
Michael R. McMahon, P.E. - Chief Engineer

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

Note: Current Available Cash as of December 31, 2022, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE SUE ANN DOUGLAS DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Rochester Hills	100.00%	\$ 7,883.00	\$ 7,883.00	-	-
<b>Total</b>	<b>100.00%</b>	<b>\$ 7,883.00</b>	<b>\$ 7,883.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 8/12/1997.

Assessment Payment Due Date(s): Payment #1 03/31/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Sue Ann Douglas Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Sue Ann Douglas Drain

The foregoing Special Assessment Roll for the maintenance of the Sue Ann Douglas Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Sue Ann Douglas Drain

## **15. Wagner Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE WAGNER DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of February 26, 2019
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$11,060
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn



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

February 26, 2019

A meeting of the Drainage Board for the Wagner 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 26<sup>th</sup> day of February, 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 November 18, 2014 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.

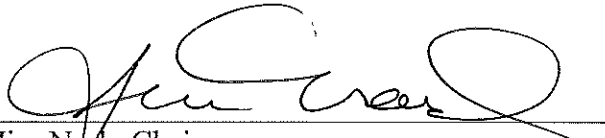
A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$10,829 for the Wagner Drain (as attached) were presented. It was moved by Zack, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$10,829 as presented.

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 Wagner Drain, Oakland County, Michigan, held on the 26<sup>th</sup> day of February, 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 Wagner Drain Drainage District.

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: March 12, 2019

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Wagner Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	02/26/19	
Last Assessment:		\$10,829
Current Available Cash:		(\$1,460)

Expenditure History:	Fiscal Year	Amount
	2016	\$1,270
	2017	\$2,098
	2018	\$1,776
	2019	\$5,012
	2020	\$3,395
	2021	\$1,398
	2022	\$1,334

Estimated Expenditures:	Year	Amount
	2023	\$3,200
	2024	\$3,200
	2025	\$3,200
	<b>Total</b>	<b>\$9,600</b>

**Recommended Assessment:**

Current Cash Deficit	\$1,460
Total Anticipated Expenses 2023 - 2025	\$9,600

**TOTAL RECOMMENDED ASSESSMENT \$11,060**

Prepared by: Michael R. McMahon Date: 2/28/2023  
Michael R. McMahon, P.E. - Chief Engineer

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

Note: Current Available Cash as of December 31, 2022, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE WAGNER DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Southfield	89.4979%	\$ 9,898.47	\$ 9,898.47	-	-
County of Oakland	3.5923%	\$ 397.31	\$ 397.31	-	-
State of Michigan	6.9098%	\$ 764.22	\$ 764.22	-	-
<b>Total</b>	<b>100.000%</b>	<b>\$ 11,060.00</b>	<b>\$ 11,060.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 3/5/1970.

Assessment Payment Due Date(s): Payment #1 03/31/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Wagner Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Wagner Drain

The foregoing Special Assessment Roll for the maintenance of the Wagner Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Wagner Drain

**Chapter 20 Drainage Board Meeting**  
Regular Meeting – Tuesday, February 28, 2023

---

**16. Wolf Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE WOLF DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of June 26, 2018
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$30,511
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

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

June 26, 2018

A meeting of the Drainage Board for the Wolf 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 26<sup>th</sup> day of June, 2018.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

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

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

Minutes of the meeting held October 25, 2016 were presented for consideration. It was moved by Middleton, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2  
Nays - 0

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

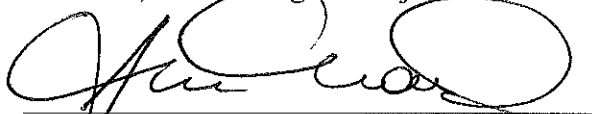
A resolution for the restatement of the Construction Surplus and Maintenance Fund for the Wolf Drain (as attached) was presented. Because the fund has a cash balance of \$70,922.30, but \$19,350 is sufficient for future maintenance, repair and inspection costs, it was proposed that 89.86 percent of the surplus, amounting to \$46,342.86 be returned to the City of Rochester Hills, 8.48 percent, amounting to \$4,373.34 be returned to the State of Michigan and the remaining 1.66 percent, or \$856.10, be returned to the County of Oakland. It was moved by Middleton, supported by Nash, to approve the restatement of Construction Surplus and Maintenance Fund for the Wolf Drain as presented.

ADOPTED: Yeas - 2  
Nays - 0

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

ADOPTED: Yeas - 2  
Nays - 0

There being no further business, the meeting was adjourned.



Jim Nash, Chairperson

STATE OF MICHIGAN            )  
  )SS.  
COUNTY OF OAKLAND         )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Wolf Drain, Oakland County, Michigan, held on the 26<sup>th</sup> day of June, 2018, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



\_\_\_\_\_  
Jim Nash, Chairperson

Dated: July 23, 2018



**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Wolf Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2023 through 2025

Date last assessment approved:	N/A
Last Assessment:	N/A
Current Available Cash:	(\$1,911)

Expenditure History:	Fiscal Year	Amount
	2016	\$5,547
	2017	\$3,864
	2018	\$9,046
	2019	\$5,203
	2020	\$3,420
	2021	\$3,571
	2022	\$9,231

Estimated Expenditures:	Year	Amount
	2023	\$6,800
	2024	\$6,800
	2025	\$6,800
	<b>Total</b>	<b>\$20,400</b>

**Recommended Assessment:**

Current Cash Deficit	\$1,911
Total Anticipated Expenses 2023 - 2025	\$20,400
Proposed Special Maintenance Expenses	\$8,200

**TOTAL RECOMMENDED ASSESSMENT \$30,511**

Prepared by: Michael R. McMahon Date: 2/28/2023  
Michael R. McMahon, P.E. - Chief Engineer

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

Note: Current Available Cash as of December 31, 2022, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE WOLF DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Rochester Hills	89.86%	\$ 27,417.19	\$ 27,417.19	-	-
County of Oakland	1.66%	\$ 506.48	\$ 506.48	-	-
State of Michigan	8.48%	\$ 2,587.33	\$ 2,587.33	-	-
<b>Total</b>	<b>100.00%</b>	<b>\$ 30,511.00</b>	<b>\$ 30,511.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 1/20/1998.

Assessment Payment Due Date(s): Payment #1 03/31/2023

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Wolf Drain for the fiscal years 2023- 2025 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Wolf Drain

The foregoing Special Assessment Roll for the maintenance of the Wolf Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Wolf Drain

## **17. Northwest Oakland Sanitary Sewer Drain**

**AGENDA**  
**DRAINAGE BOARD FOR**  
**THE NORTHWEST OAKLAND SANITARY SEWER DRAIN**

February 28, 2023

1. Call meeting to order
2. Approve minutes of meeting of January 24, 2023
3. Public Comments
4. Present request for Board approval of payment of invoices and/or reimbursement from the Drain Revolving Fund the amount \$3,306.00
5. Other business
6. Approve pro rate payment to Drainage Board members
7. Adjourn

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

January 24, 2023

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 24<sup>th</sup> day of January 2023.

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 December 13, 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.

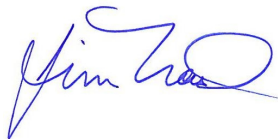
A request for approval of payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$2,119.50 (as attached) was presented. It was moved by Woodward, supported by Nash, to approve the payment of invoices and/or reimbursement of the Drain Revolving Fund in the amount of \$2,119.50.

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.



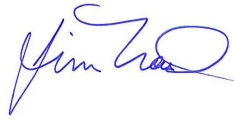
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Jim Nash, Chairperson

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 24<sup>th</sup> day of January 2023, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



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Jim Nash, Chairperson

Dated: January 24, 2023

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

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

**DATE:** February 28, 2023

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

<u>Date</u>	<u>Ref No.</u>	<u>Paid To</u>	<u>For</u>	<u>Amount</u>
2/12/2023	V # SINV00161581	Dickinson Wright PLLC	Invoice # 1769234 - Legal Services - 12/31/22 - Prj # 1-7076	\$ 316.00
11/21/2022	V # SINV00144054	Rowe Professional Services Company	Invoice # 105988 - Contracted Services -10/1/22 - 10/31/22	2,990.00
			<b>Total - Proj #1-7076</b>	<b>\$ 3,306.00</b>