

## **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. Karas Drain
7. New Drain Project

NOTICE IS HEREBY GIVEN THAT MEETINGS OF THE DRAINAGE BOARD FOR THE ABOVE-MENTIONED DRAINS WILL COMMENCE AT **2:00 P.M.**, ON **TUESDAY, AUGUST 25, 2020** VIA GOTOMEETING. THOSE THAT WISH TO PARTICIPATE MAY FOLLOW THE INSTRUCTIONS ATTACHED TO THIS NOTICE.

THIS BOARD MEETING IS BEING CONDUCTED ELECTRONICALLY UNDER THE GOVERNOR'S EXECUTIVE ORDERS DUE TO THE COVID-19 PANDEMIC.

DURING THE ELECTRONIC 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 MEGAN KOSS AT [KOSSM@OAKGOV.COM](mailto:KOSSM@OAKGOV.COM).

PERSONS WITH DISABILITIES THAT NEED ASSISTANCE PARTICIPATING IN THE MEETING SHOULD CONTACT MEGAN KOSS AT [KOSSM@OAKGOV.COM](mailto:KOSSM@OAKGOV.COM).

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

Posted by: August 20, 2020

**August Chapter 20 meeting**  
**Tue, Aug 25, 2020 2:00 PM - 4:00 PM (EDT)**

Please join my meeting from your computer, tablet or smartphone.

<https://global.gotomeeting.com/join/537308973>

You can also dial in using your phone.

(For supported devices, tap a one-touch number below to join instantly.)

United States: +1 (571) 317-3122

- One-touch: tel:+15713173122,,537308973#

Access Code: 537-308-973

Join from a video-conferencing room or system.

Dial in or type: 67.217.95.2 or [inroomlink.goto.com](https://inroomlink.goto.com)

Meeting ID: 537 308 973

Or dial directly: [537308973@67.217.95.2](https://537308973@67.217.95.2) or 67.217.95.2##537308973

**Chapter 20 Drainage Board Meeting**  
Regular Meeting – Tuesday August 25, 2020

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**1. Acacia Park CSO**



## **AGENDA**

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

August 25, 2020

1. Call meeting to order
2. Approve minutes of meeting of July 28, 2020
3. Public Comments
4. Present Memorandum requesting the Board approve new charges to the Evergreen Farmington Sewage Disposal System
5. Present request for reimbursement of the Evergreen Farmington Sewage Disposal System Fund in the amount of \$31,995.84
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn

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

July 28, 2020

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

The meeting was called to order by the Chairperson.

PRESENT:     Jim Nash, Oakland County Water Resources Commissioner

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 June 23, 2020 were presented for consideration. It was moved by Zack, supported by Nash, that the minutes be approved.

ADOPTED:    Yeas    -       3  
                  Nays    -       0

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

A Memorandum from Brian Coburn, Chief Engineer, dated July 28, 2020, recommending the Board receive and file the RTB Capacity Use Credit Memorandum (as attached) for the third quarter FY2020 was presented for consideration. It was moved by Zack, supported by Woodward, to receive and file the Memorandum regarding the RTB Capacity Use Credit.

ADOPTED:    Yeas    -       3  
                  Nays    -       0

A request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$9,265.86 (as attached) was presented. It was moved by Zack, supported by Woodward, that the invoices in the amount of \$9,265.86 be paid as presented.

ADOPTED:    Yeas    -       3  
                  Nays    -       0

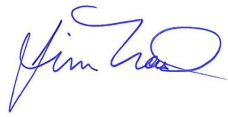
A request for reimbursement of the Evergreen Farmington Fund in the amount of \$22,553.28 (as attached) was presented. It was moved by Zack, supported by Woodward, to reimburse the Evergreen Farmington Fund in the amount of \$22,553.28.

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 Ms. Zack and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.



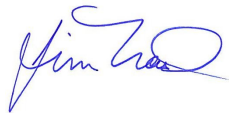
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Jim Nash, Chairperson

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 of the Acacia Park CSO Drain, Oakland County, Michigan, held on the 28<sup>th</sup> day of July, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



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Jim Nash, Chairperson

Dated: August   3  , 2020

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

**TO:** Jim Nash, Chairman  
Acacia Park RTB Drainage Board

**FROM:** Brian Coburn, Chief Engineer

**SUBJECT:** RTB Capacity Use Credits

**DATE:** August 25, 2020

A Memorandum of Understanding (MOU) between the EFSDS and the three CSO districts was approved by the respective Drainage Boards in 2017. The MOU allows the County to close the Combined Sewer Overflow (CSO) regulators that control flow from the Acacia Park, Birmingham and Bloomfield Village Retention Treatment Basins (RTB) to EFSDS such that they can be closed during wet weather to provide preferential treatment of the sanitary sewage being pumped through the force main from the EFSDS. The agreement requires an annual review of the cost per volume each year.

We have reviewed the calculations to develop the EFSDS credit to each of the three RTB Districts when the regulators are closed giving preference to the EFSDS Flows. The calculation methodologies are outlined in Exhibit A of the agreements. The adopted 2019-2020 cost is \$13.45. After an in-depth review of the cost allocation, it has been determined that the RTB credit for July 1, 2020 through June 30, 2021 will be \$10.52 per mcf.

**RECOMMENDED ACTION:** Approval of the volumetric charge of \$10.52 per thousand cubic feet to be paid by EFSDS to the RTB Districts per the 2017 Memorandum of Understanding beginning July 1, 2020 through June 30, 2021.

	CSO District			
	Acacia	Birmingham	Bloomfield Village	TOTAL
<b>1. Determine the annual operation costs for all of the CSO Districts for the current year:</b>				
Use the total approved assess for the rate year	\$ 936,860.00	\$ 886,790.00	\$ 1,278,660.00	\$3,102,310
Subtract EFSDS Charges to each CSO District	(383,470.00)	(400,980.00)	(506,080.00)	(\$1,290,530)
TOTAL Annual Operation Cost for each CSO	\$553,390	\$485,810	\$772,580	\$1,811,780

**2. Determine the average annual volume that passes through all CSO Districts as follows (rate year July 1 through June 30)**

Total RTB Volume for 2017-18	16,024.55	108,168.09	37,328.01	161,520.65
Total RTB Volume for 2018-19	16,691.73	116,769.25	45,921.68	179,382.66
Total RTB Volume for 2019-20	32,369.04	112,155.93	31,432.55	175,957.53
3-YEAR TOTAL RTB VOLUME	65,085.32	337,093.27	114,682.24	516,860.84
AVERAGE ANNUAL RTB VOLUME	21,695.11	112,364.42	38,227.41	172,286.95

**3. Calculate the Cost per volume by dividing total operating costs by 3-year average total pass through volume**

TOTAL OPERATING COST PER MCF OF FLOW	2020-2021	<b>\$10.52</b>
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**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:** August 25, 2020

**SUBJECT:** Request for Reimbursement of Evergreen Farmington Fund

The following is a detail of charges paid from the Evergreen Farmington Fund  
for the period ending August 17, 2020.

<u>Date</u>	<u>Ref No.</u>	<u>For</u>	<u>Amount</u>
07/31/20	JE# 339358	July 2020 Storm Water Flow Charges RTB Capacity Use (O & M Credit)	\$31,995.84
			<u>\$31,995.84</u>

## **2. Birmingham CSO**



## **AGENDA**

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

August 25, 2020

1. Call meeting to order
2. Approve minutes of meeting of July 28, 2020
3. Public Comments
4. Present Memorandum requesting the Board approve new charges to the Evergreen Farmington Sewage Disposal System
5. Present request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$12,289.98
6. Present request for reimbursement of the Evergreen Farmington Fund in the amount of \$33,415.26
7. Other business
8. Approve pro rata payment to Drainage Board members
9. Adjourn

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

July 28, 2020

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

The meeting was called to order by the Chairperson.

PRESENT:     Jim Nash, Oakland County Water Resources Commissioner

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 June 23, 2020 were presented for consideration. It was moved by Zack, supported by Nash, that the minutes be approved.

ADOPTED:    Yeas    -        3  
                 Nays    -        0

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

A Memorandum from Brian Coburn, Chief Engineer, dated July 28, 2020, recommending the Board receive and file the RTB Capacity Use Credit Memorandum (as attached) for the third quarter FY2020 was presented for consideration. It was moved by Zack, supported by Woodward, to receive and file the Memorandum regarding the RTB Capacity Use Credit.

ADOPTED:    Yeas    -        3  
                 Nays    -        0

A request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$9,628.96 (as attached) was presented. It was moved by Zack, supported by Woodward, that the invoices in the amount of \$9,628.96 be paid as presented.

ADOPTED:    Yeas    -        3  
                 Nays    -        0

A request for reimbursement of the Evergreen Farmington Fund in the amount of \$18,747.85 (as attached) was presented. It was moved by Zack, supported by Woodward, to reimburse the Evergreen Farmington Fund in the amount of \$18,747.85.

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 Ms. Zack and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.



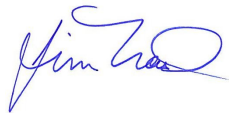
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Jim Nash, Chairperson

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 of the Birmingham CSO Drain, Oakland County, Michigan, held on the 28<sup>th</sup> day of July, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



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Jim Nash, Chairperson

Dated: August   3  , 2020

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

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

**FROM:** Brian Coburn, Chief Engineer

**SUBJECT:** RTB Capacity Use Credits

**DATE:** August 25, 2020

A Memorandum of Understanding (MOU) between the EFSDS and the three CSO districts was approved by the respective Drainage Boards in 2017. The MOU allows the County to close the Combined Sewer Overflow (CSO) regulators that control flow from the Acacia Park, Birmingham and Bloomfield Village Retention Treatment Basins (RTB) to EFSDS such that they can be closed during wet weather to provide preferential treatment of the sanitary sewage being pumped through the force main from the EFSDS. The agreement requires an annual review of the cost per volume each year.

We have reviewed the calculations to develop the EFSDS credit to each of the three RTB Districts when the regulators are closed giving preference to the EFSDS Flows. The calculation methodologies are outlined in Exhibit A of the agreements. The adopted 2019-2020 cost is \$13.45. After an in-depth review of the cost allocation, it has been determined that the RTB credit for July 1, 2020 through June 30, 2021 will be \$10.52 per mcf.

**RECOMMENDED ACTION:** Approval of the volumetric charge of \$10.52 per thousand cubic feet to be paid by EFSDS to the RTB Districts per the 2017 Memorandum of Understanding beginning July 1, 2020 through June 30, 2021.

	CSO District			
	Acacia	Birmingham	Bloomfield Village	TOTAL
<b>1. Determine the annual operation costs for all of the CSO Districts for the current year:</b>				
Use the total approved assess for the rate year	\$ 936,860.00	\$ 886,790.00	\$ 1,278,660.00	\$3,102,310
Subtract EFSDS Charges to each CSO District	(383,470.00)	(400,980.00)	(506,080.00)	(\$1,290,530)
TOTAL Annual Operation Cost for each CSO	\$553,390	\$485,810	\$772,580	\$1,811,780

**2. Determine the average annual volume that passes through all CSO Districts as follows (rate year July 1 through June 30)**

Total RTB Volume for 2017-18	16,024.55	108,168.09	37,328.01	161,520.65
Total RTB Volume for 2018-19	16,691.73	116,769.25	45,921.68	179,382.66
Total RTB Volume for 2019-20	32,369.04	112,155.93	31,432.55	175,957.53
3-YEAR TOTAL RTB VOLUME	65,085.32	337,093.27	114,682.24	516,860.84
AVERAGE ANNUAL RTB VOLUME	21,695.11	112,364.42	38,227.41	172,286.95

**3. Calculate the Cost per volume by dividing total operating costs by 3-year average total pass through volume**

TOTAL OPERATING COST PER MCF OF FLOW	2020-2021	<b>\$10.52</b>
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**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the BIRMINGHAM CSO DRAIN

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



**DATE:** August 25, 2020

**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 August 17, 2020

G/L Date	Ref No.	Paid To	For	Amount
7/31/2020	V # 1457743	Pro-Seal Service Group	Invoice # 202700 - Contracted Services	\$ 12,289.98
			Total	<u>\$ 12,289.98</u>

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

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



**DATE:** August 25, 2020

**SUBJECT:** Request for Reimbursement of Evergreen Farmington Fund

The following is a detail of charges paid from the Evergreen Farmington Fund  
for the period ending August 17, 2020.

Date	Ref No.	For	Amount
07/31/20	JE# 339358	July 2020 Storm Water Flow Charges RTB Capacity Use (O & M Credit)	\$33,415.26
			<u>\$33,415.26</u>



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

## **AGENDA**

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

August 25, 2020

1. Call meeting to order
2. Approve minutes of meeting of July 28, 2020
3. Public Comments
4. Present Memorandum requesting the Board approve new charges to the Evergreen Farmington Sewage Disposal System
5. Present request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$1,894.99
6. Present request for reimbursement of the Evergreen Farmington Fund in the amount of \$42,173.67
7. Other business
8. Approve pro rata payment to Drainage Board members
9. Adjourn

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

July 28, 2020

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

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

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 June 23, 2020 were presented for consideration. It was moved by Zack, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

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

A Memorandum from Brian Coburn, Chief Engineer, dated July 28, 2020, recommending the Board receive and file the RTB Capacity Use Credit Memorandum (as attached) for the third quarter FY2020 was presented for consideration. It was moved by Zack, supported by Woodward, to receive and file the Memorandum regarding the RTB Capacity Use Credit.

ADOPTED: Yeas - 3  
Nays - 0

A request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$12,895.60 (as attached) was presented. It was moved by Zack, supported by Woodward, that the invoices in the amount of \$12,895.60 be paid as presented.

ADOPTED: Yeas - 3  
Nays - 0

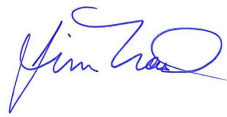
A request for reimbursement of the Evergreen Farmington Fund in the amount of \$30,141.84 (as attached) was presented. It was moved by Zack, supported by Woodward, to reimburse the Evergreen Farmington Fund in the amount of \$30,141.84.

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.



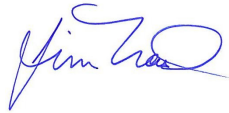
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Jim Nash, Chairperson

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 of the Bloomfield Village CSO Drain, Oakland County, Michigan, held on the 28<sup>th</sup> day of July, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



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Jim Nash, Chairperson

Dated: August   3  , 2020

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

**TO:** Jim Nash, Chairman  
Bloomfield Village RTB Drainage Board

**FROM:** Brian Coburn, Chief Engineer

**SUBJECT:** RTB Capacity Use Credits

**DATE:** August 25, 2020

A Memorandum of Understanding (MOU) between the EFSDS and the three CSO districts was approved by the respective Drainage Boards in 2017. The MOU allows the County to close the Combined Sewer Overflow (CSO) regulators that control flow from the Acacia Park, Birmingham and Bloomfield Village Retention Treatment Basins (RTB) to EFSDS such that they can be closed during wet weather to provide preferential treatment of the sanitary sewage being pumped through the force main from the EFSDS. The agreement requires an annual review of the cost per volume each year.

We have reviewed the calculations to develop the EFSDS credit to each of the three RTB Districts when the regulators are closed giving preference to the EFSDS Flows. The calculation methodologies are outlined in Exhibit A of the agreements. The adopted 2019-2020 cost is \$13.45. After an in-depth review of the cost allocation, it has been determined that the RTB credit for July 1, 2020 through June 30, 2021 will be \$10.52 per mcf.

**RECOMMENDED ACTION:** Approval of the volumetric charge of \$10.52 per thousand cubic feet to be paid by EFSDS to the RTB Districts per the 2017 Memorandum of Understanding beginning July 1, 2020 through June 30, 2021.

	CSO District			
	Acacia	Birmingham	Bloomfield Village	TOTAL
<b>1. Determine the annual operation costs for all of the CSO Districts for the current year:</b>				
Use the total approved assess for the rate year	\$ 936,860.00	\$ 886,790.00	\$ 1,278,660.00	\$3,102,310
Subtract EFSDS Charges to each CSO District	(383,470.00)	(400,980.00)	(506,080.00)	(\$1,290,530)
TOTAL Annual Operation Cost for each CSO	\$553,390	\$485,810	\$772,580	\$1,811,780

**2. Determine the average annual volume that passes through all CSO Districts as follows (rate year July 1 through June 30)**

Total RTB Volume for 2017-18	16,024.55	108,168.09	37,328.01	161,520.65
Total RTB Volume for 2018-19	16,691.73	116,769.25	45,921.68	179,382.66
Total RTB Volume for 2019-20	32,369.04	112,155.93	31,432.55	175,957.53
3-YEAR TOTAL RTB VOLUME	65,085.32	337,093.27	114,682.24	516,860.84
AVERAGE ANNUAL RTB VOLUME	21,695.11	112,364.42	38,227.41	172,286.95

**3. Calculate the Cost per volume by dividing total operating costs by 3-year average total pass through volume**

TOTAL OPERATING COST PER MCF OF FLOW	2020-2021	<b>\$10.52</b>
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MEMO TO: Mr. Jim Nash, Chairman  
of the Drainage Board for the BLOOMFIELD VILLAGE CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting



DATE: August 25, 2020

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 August 17, 2020

G/L Date	Ref No.	Paid To	For	Amount
	TBP	JCI Jones Chemicals Inc	Invoice # 828801 - Chlorination Supplies	\$ 1,894.99
			Total	<u>\$ 1,894.99</u>



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

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



**DATE:** August 25, 2020

**SUBJECT:** Request for Reimbursement of Evergreen Farmington Fund

The following is a detail of charges paid from the Evergreen Farmington Fund  
for the period ending August 17, 2020.

<u>Date</u>	<u>Ref No.</u>	<u>For</u>	<u>Amount</u>
07/31/20	JE# 339358	July 2020 Storm Water Flow Charges RTB Capacity Use (O & M Credit)	\$42,173.67
			<u>\$42,173.67</u>

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

## **AGENDA**

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

August 25, 2020

1. Call meeting to order
2. Approve minutes of meeting of July 28, 2020
3. Public Comments
4. Present Memorandum recommending the Board approve the estimate and funding of the Drainage District's Ribbon Cutting Ceremony Videos
5. Present Memorandum recommending the Board approve the allocation of \$119,200 in funds for the Drainage District PFAS Study Phase 1
6. Present Change Order No. 42 for Toolles Contracting Group LLC for a net increase in the amount of \$18,352.34
7. Present Change Order No. 43 for Toolles Contracting Group LLC for a net increase in the amount of \$15,517.50
8. Present Construction Estimate No. 35 for Toolles Contracting Group LLC in the amount of \$114,386.14
9. Present Construction Estimate No. 15 for Frank Rewold and Son, Inc. in the amount of \$33,701.47 and a transfer of \$28,964.95 from the Oakland County Treasurer
10. Present request for Board approval of payment of invoices from the Construction Fund in the amount \$9,603.78
11. Present request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$257,921.64
12. Other business
13. Approve pro rata payment to Drainage Board members
14. Adjourn

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

July 28, 2020

A meeting of the Drainage Board for the Clinton River Water Resource Recovery Facility was held at 2:00 p.m. on the 28<sup>th</sup> of July, 2020. The meeting was conducted via GoToMeeting in accordance with the Governor's Executive Orders due to the ongoing COVID-19 pandemic. Commissioner Nash read a brief statement regarding the current health crisis and its impact on the Chapter 20 meetings, which can be found in its entirety under "Drainage District Policy".

The meeting was called to order by the Chairperson.

PRESENT:     Jim Nash, Oakland County Water Resources Commissioner

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 June 23, 2020 were presented for consideration. It was moved by Zack, supported by Nash, that the minutes be approved.

ADOPTED:    Yeas    -        3  
                 Nays    -        0

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

A Memorandum from Mary Koeger, P.E., Operations Engineer, dated July 17, 2020 recommending the Board approve the allocation of \$440,000 in Capital Improvement funds for the Pilot Digestion and Electrical Improvements Project was presented. It was moved by Zack, supported by Woodward, to approve the allocation of \$440,000 in Capital Improvement funds as presented.

ADOPTED:    Yeas    -        3  
                 Nays    -        0

A Memorandum from Mary Koeger, P.E., Operations Engineer, dated July 20, 2020 recommending the Board approve the allocation of \$4,700 in Major Maintenance funds for Disinfection Tanks Inspection was presented. It was moved by Zack, supported by Woodward, to approve the allocation of \$4,700 in Major Maintenance funds as presented.

ADOPTED:    Yeas    -        3  
                 Nays    -        0

A Memorandum from Carrie Cox, Chief Engineer, and Mike Daniels, Chief WRC Water Resource Recovery, dated July 16, 2020 recommending the Board receive and file the

Annual Asset Management Plan was presented. It was moved by Zack, supported by Woodward, to receive and file the report as presented.

ADOPTED: Yeas - 3  
Nays - 0

Change Order No. 40 for Toolles Contracting Group LLC for a net increase in the amount of \$33,304 (as attached) was presented. It was moved by Zack, supported by Woodward, to approve Change Order No. 40 for a net increase in the amount of \$33,304 as presented.

ADOPTED: Yeas - 3  
Nays - 0

Change Order No. 41 for Toolles Contracting Group LLC for a net decrease in the amount of \$2,000 (as attached) was presented. It was moved by Zack, supported by Woodward, to approve Change Order No. 41 for a net decrease in the amount of \$2,000 as presented.

ADOPTED: Yeas - 3  
Nays - 0

Construction Estimate No. 34 for Toolles Contracting Group LLC in the amount of \$75,252.32 (as attached) was presented. It was moved by Zack, supported by Woodward, to approve Construction Estimate No. 34 in the amount of \$75,252.32 as presented.

ADOPTED: Yeas - 3  
Nays - 0

Construction Estimate No. 14 for Frank Rewold and Son, Inc. in the amount of \$156,493.40 and a reserve payment of \$18,492.45 from the Oakland County Treasurer (as attached) was presented. It was moved by Zack, supported by Woodward, to approve Construction Estimate No. 14 in the amount of \$156,493.40 and a reserve payment of \$18,492.45 from the Oakland County Treasurer as presented.

ADOPTED: Yeas - 3  
Nays - 0

A request for Board approval of payment of invoices from the Construction Fund in the amount of \$11,411.68 (as attached) was presented. It was moved by Zack, supported by Woodward, that the invoices in the amount of \$11,411.68 be paid as presented.

ADOPTED: Yeas - 3  
Nays - 0

A request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$182,961.66 (as attached) was presented. It was moved by Zack, supported by Woodward, that the invoices in the amount of \$182,961.66 be paid 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 Ms. Zack and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.



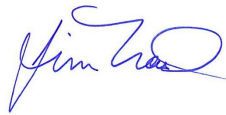
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Jim Nash, Chairperson

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 of the Clinton River Water Resource Recovery Facility, Oakland County, Michigan, held on the 28<sup>th</sup> day of July, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



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Jim Nash, Chairperson

Dated: August   3  , 2020

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

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

**FROM:** Patricia Bruzek, Marketing & Communications Supervisor

**SUBJECT:** Seeking estimate approval and funding for Clinton River Water Resource Recovery Facility Ribbon-Cutting Ceremony Videos

**DATE:** August 25, 2020

On September 24, 2020 we are holding a virtual live stream ribbon-cutting ceremony at the Clinton River Water Resource Recovery Facility. Because we are unable to give facility tours in person at our ribbon cutting ceremony due to the coronavirus pandemic and safety protocols, we are seeking approval for funding to produce a series of videos with our advertising vendor, Mort Crim Communications, Inc., to present at the ribbon-cutting.

The series of videos will highlight the technology and capabilities of the Clinton River Water Resource Recovery Facility. The 5-minute video will offer an inside tour of the facility while telling the story of how it is one of only three of its kind in the country to turn waste into energy. The shorter 30-second video will be a condensed version of the longer video and used as a teaser in the ceremony invitation. The 360 video will offer an in-depth look at the facility. Using a 360 camera, which captures 360-degree photos and videos using two fish-eye lenses, will result in the video to be shared online, where viewers can move around inside the image using a mouse or view it using a virtual reality headset for a personalized experience. A 360 video will increase community and viewer engagement by providing the opportunity to visually explore the facility in depth. The estimate also includes a remote-control camera car to gather a very different visual perspective, giving us another creative way to show off the facility. The last video will be a preview interview style video of the C. Bescii Hydrolysis Process and Anaerobic Digestion Research program that the facility is going to be a part of.

Furthermore, the estimate includes concepting, scripting/writing, research/calls with subject matter experts, voiceover work, music tracks, video editing, post production, project management and account direction. The total expected cost of this estimate is: \$ \$58,260.

The investment in the video series will be timeless in the amount of times the video can be viewed. Looking beyond the ceremony, the videos will be resources for all staff to use for tours, education and hiring purposes. They will also be housed on our website and social media channels for community members and the public to view.

**Requested Action: Authorize Fiscal Services to approve the estimate of \$58,260 for this project and allow the staff to proceed.**





July 17, 2020

Patricia Bruzek  
Supervisor, Marketing and Communication  
Oakland County Water Resources Commissioner  
1200 N. Pontiac Road Bldg. 95W  
Pontiac, MI 48340

Dear Trisha,

We are pleased to present this estimate for the conceiving, scripting and production of four facility walk-through videos (one 2 to 3-minute video, one 5-minute video, one 30-second video and a 360 video) that highlight the technology and capabilities of the Clinton River Water Resource Recovery Facility.

We also have included an additional estimate for a live-stream option for your ribbon-cutting. This will be especially beneficial in engaging those who cannot attend due to COVID-19 restrictions.

As you'll see on the next page, we are recommending these videos that provide a look inside the facility and tell the story of how the Clinton River Water Resource Recovery Facility is one of only three facilities in the country that can generate energy from waste — all while being *Purely Resourceful* in protecting our region's natural resources.

Please let me know if you have any questions. If all looks good, please sign page 4 and scan and email this to me at [mmartin@mccicorp.com](mailto:mmartin@mccicorp.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Martin". The signature is fluid and cursive, with the first name "Michelle" and last name "Martin" clearly distinguishable.

Michelle Martin  
Account Director  
586-536-8819  
[mmartin@mccicorp.com](mailto:mmartin@mccicorp.com)



## **Overview/Project Scope**

The four videos (one 5-minute, one 2 to 3-minute, one 30-second and one 360 video) will highlight the technology and capabilities of the Clinton River Water Resource Recovery Facility. The 5-minute and 2 to 3-minute videos will offer an inside tour of the facility while telling the story of how it is one of only three of its kind in the country to turn waste into energy. The shorter 30-second video will be a condensed version of the longer videos. The 360 video will offer an in-depth look at the facility.

This estimate includes concepting, scripting/writing, research/calls with SMEs, voiceover work, music tracks, video editing, post production, project management and account direction.

Deliverables include:

- One 5-minute video
- One 2 to 3-minute
- One 30-second video
- One 360 video

Specific pre-production, production and post-production details are included below. Each of the three options includes:

- Two rounds of revisions to the script
- Two rounds of revisions to the video

Please note that additional revisions will be billed at our regular hourly rate.

## **PRICING**

### **Two cameras, drone + RC car with camera + 360 camera**

*Deliverables::*

- *5-minute facility walkthrough video*
- *2 to 3- minute video*
- *30-second highlight video*
- *360 video*

We will have the budget to use a 360 camera, which captures 360-degree photos and videos using two fish-eye lenses. The resulting video can be shared online, where viewers can move around inside the image using a mouse or view it using a VR (virtual reality) headset for a personalized experience. This addition to the budget increases community and viewer engagement by providing the opportunity to visually explore the facility in depth.

This budget also provides for a remote control (RC) camera car, on which we will mount an additional camera. This allows our director/crew to gather a very different visual perspective, giving us another creative way to show off the facility.

## **Pre-Production**

- Creative direction
- Script writing
- Site survey
- Producer shoot prep
- Project management

**Production (2 full-day shoots - one with 2 cameras (teleprompter if needed)**

**One with 2 cameras, drone, RC camera car and 360 camera)**

- Producer/director
- 1 camera
- 1 steadicam
- 1 drone
- 1 RC camera car
- 1 360 camera
- 1 audio tech
- 1 production assistant

**Post-Production**

- Voiceover talent
- 4 MCCI music tracks
- Video editing/graphics
- Creative director review

**Total Cost: \$58,260**

**ADDITIONAL OPTION: Ribbon-cutting live-stream**

*Deliverable::*

- *Live streaming of the official ribbon-cutting*

This estimate includes:

- Meetings/calls with WRC IT staff to understand infrastructure/internet capabilities
- Two cameras on site at the event
- Post-event video (edited and delivered on site after the event)
- Project management

**Cost for live-stream and video: \$6,300**

*\* Live-stream option is dependent upon the internet capabilities of the facility*

**Delivery/Timeframe for Facility Walk-through Videos (to be finalized upon client approval)**

July 17	Estimate to WRC
July 21	WRC approval of this estimate
July 22	Project kickoff

MCCI provides script outline to WRC  
WRC provides feedback on script outline to MCCI  
MCCI provides first script to WRC  
WRC provides script changes to MCCI  
Revisions to script (if needed) to WRC  
Second round of revisions (if needed)  
WRC final approval of script/production begins  
One-day shoot at the facility  
Video to WRC  
WRC first and second revisions to video (if needed)  
9/2020 Final video to WRC

\*\* A full timeline will be developed once the agreement has been signed and returned.

### **Terms of Business**

All terms apply from previously approved MCCI/WRC agreement effective 9/1/2019 and signed 9/11/2019.

Agreed: Oakland County Water Resources Commissioner's Office

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

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

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

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

**FROM:** Mary Koeger, P.E., Operations Engineer

**SUBJECT:** CRWRRF PFAS Study (Phase 1)

**DATE:** August 25, 2020

The goal of this project is to proactively continue to complete a PFAS source evaluation that started in 2018 by locating potential PFAS sources outside of the Clinton River Water Resource Recovery Facility (CRWRRF) which may be contributing to the PFAS at CRWRRF in order to stop it at its source. Phase 1 of this work will include identifying known and potential PFAS sources, developing sampling plans, analyzing data collected, and creating a technical memo presenting conclusions.

OHM was contracted and approved to start this work May 21, 2019 (memo attached). Additions to the original scope are on the attached proposal dated August 12, 2020. Additions include:

Task	Description
<b>Task 1</b>	<ul style="list-style-type: none"> <li>A. Review non-residential customers for PFAS Sources</li> <li>B. Coordinate with EGLE to identify pump and treat groundwater remediation facilities</li> </ul>
<b>Task 2</b>	<ul style="list-style-type: none"> <li>A. Reimagine sampling strategy based on PFAS Sources</li> <li>B. Develop detailed maps for Orion and Waterford manholes and manhole marking</li> <li>C. Manhole revisions based on dry manholes or those that could not be located</li> <li>D. Revise sampling plan based on Sampling and Testing contractor capacity</li> <li>E. Coordinate efforts with Sampling contractors and WRC</li> </ul>
<b>Task 3</b>	<ul style="list-style-type: none"> <li>A. Observe field crews on the first day of sampling to document the sampling process</li> </ul>
<b>Task 4</b>	<ul style="list-style-type: none"> <li>A. Coordinate with Sampling contractor to receive flow data</li> <li>B. Coordinate with WRC to receive flow data from meters</li> <li>C. Determine the mass of PFOS and PFOA and total PFAS contributed by the Perry Street Interceptor relative to Auburn influent</li> <li>D. Review mass loading of CRWRRF</li> <li>E. Document new PFAS regulations for IPP program</li> <li>F. Identify submeter districts on the COSDS with concentrations above the requirements of the new GLWA IPP program</li> <li>G. Additional analysis based on revised sampling plan</li> </ul>
<b>Task 5</b>	<ul style="list-style-type: none"> <li>A. Discuss additional analysis based on revised sampling plan</li> <li>B. Prepare test, images and graphs content describing project objectives and progress to support WRC public outreach efforts</li> </ul>

The total expected project cost is shown below:

**OHM PFAS Cost**

Task	Description	Original Service Cost	Additional Service Cost	Revised Total Cost
<b>Task 1</b>	Kick Off/ Identify known & potential PFAS sources	\$11,000	\$0	\$11,000
<b>Task 2</b>	Develop Sample Plan & Hold Workshop	\$9,000	\$21,000	\$30,000
<b>Task 3</b>	Sampling & Lab Analysis	\$0	\$2,000	\$2,000
<b>Task 4</b>	Data Analysis and Conclusions	\$14,000	\$13,000	\$27,000
<b>Task 5</b>	Deliverables	\$4,000	\$8,000	\$12,000
<b>Total</b>		<b>\$38,000</b>	<b>\$44,000</b>	<b>\$82,000</b>

**Total Estimated Project Cost:**

OHM PFAS Sample Planning	\$ 44,000.00
ASTI PFAS Sampling	\$ 58,400.00
WRC Labor	\$ 10,000.00
<u>Contingency (10% Sampling &amp; WRC Labor)</u>	<u>\$ 6,800.00</u>
<b>Total</b>	<b>\$119,200.00</b>

This total does not include any potential future construction or design costs.

We recommend proceeding with the creation of the PFAS study including sample plan, sampling, testing and analysis.

**Requested Action: Approve the additional allocation of \$119,200 funds for this project.**

**DRAIN CHANGE ORDER NO. 42**

Jim Nash, Oakland County Water Resources Commissioner

For Construction of the Biosolids Handling and Septage Receiving FacilityLocated in City of Pontiac, Oakland County, MichiganCONTRACTOR: Tooles Contracting Group LLCAddress: 535 Griswold Suite 2550Detroit, MI 48226

Authorization for Extras To &amp; Changes In Contract

Change Order No: 42 Date Issued: 7/28/2020

Auth No.	Location-Description-Reason	Unit Used	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
	<b><u>LOCATION:</u></b> Clinton River Water Resource Recovery Facility - <b>1</b> Biosolids & Digester Buildings <b>2</b> Blower Building <b>3</b> All Plant Facilities <b>4</b> All Plant Facilities					
	<b><u>DESCRIPTION:</u></b> <b>1 Change/Add</b> Provide all materials, labor, and equipment to relocate the two (2) NEMA 4 enclosures south of the Digester Building to the southwest side of the Digester Electrical Building and modify the temperature and pressure transmitter wiring to the boiler master control panel, as described in the attached amended Work Directive #29, dated September 17, 2019.	LS	1	\$262.91	\$262.91	---
	<b>2 Change/Add</b> Provide all materials, labor, and equipment to relocate the existing four primary pump running alarm lights to the top of the pump VFD cabinets and perform modifications to the ATCP-1 panel to facilitate operation of the eight lights (four external and four internal), as described in Field Change Request #34, dated December 06, 2019.	LS	1	\$7,105.51	\$7,105.51	---
	<b>3 Change/Add</b> Provide all materials, labor, and equipment to install the required aluminum junction boxes for the Drager LEL sensor, as described in the attached Work Directive #43, dated May 15, 2019.	LS	1	\$6,761.78	\$6,761.78	---
	<b>4 Change/Add</b> Provide all materials, labor, and equipment for modifications to the gas detection system, sensor and alarm module locations, as described in the attached Work Directive #54 dated September 16, 2019 and Bulletin #14 update, dated March 21, 2018.	LS	1	\$4,222.14	\$4,222.14	---

CONTRACTOR: Tooles Contracting Group LLCAddress: 535 Griswold Suite 2550Detroit, MI 48226

Authorization for Extras To &amp; Changes In Contract

Change Order No: 42 Date Issued: 7/28/2020

Auth No.	Location-Description-Reason	Unit Used	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
	<p><b><u>REASON:</u></b></p> <p><b>1</b> The NEMA 4 enclosures need to be 10' away from the Digester Building per NFP 820. The boiler instrument communications required modifications following the boiler submittal review.</p> <p><b>2</b> The existing interior lights were located on and powered from a panel that was demolished. Relocating these lights to the pump VFD cabinets was the plant operators desired option. To power the lights without voiding the pump VFD warranties, the lights were powered and controlled from the ATCP-1 panel.</p> <p><b>3</b> To maintain equipment warranty, the gas detector equipment manufacturer required their aluminum junction terminal box to be utilized when separating the sensors and their transmitters.</p> <p><b>4</b> While reviewing the equipment layout submittals, it was determined that relocation of some of the gas detection equipment was warranted to provide more complete and operable system.</p> <p>Note: CDM Smith and WRC have reviewed the methods and costs of this work based upon similar work of this type. The prices in this change order are fair and reasonable. See attached backup materials from Tooles Contracting Group.</p>					
Totals					\$18,352.34	\$0.00
Net Increase					\$18,352.34	---



CHANGE ORDER NO. 42

JIM NASH Water Resources Commissioner

For Construction of the Biosolids Handling and Septage Receiving Facility

Prepared by: [Signature] Date: 07/30/2020  
Project Engineer – Razik Alsaigh - PE  
Oakland County Water Resources Commissioner's Office

Recommended by: [Signature] Date: 7/29/2020  
Consulting Engineer – Edward St John - PE  
CDM Smith - Consulting Engineer

Approved by: [Signature] Date: August 13, 2020  
Chief Engineer – Gary Nigro - PE  
Oakland County Water Resources Commissioner's Office

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

Accepted by: [Signature] Date: 07/29/2020

of: Tooles Contracting Group LLC

Approved by: [Signature] Date: 08/17/2020  
Manager – Sidney Lockhart, P.E.  
Construction Management  
Oakland County Water Resources Commissioner's Office

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

This Change Order No. 42 was approved by the Drainage Board on: \_\_\_\_\_

**DRAIN CHANGE ORDER NO. 43**

Jim Nash, Oakland County Water Resources Commissioner

For Construction of the Biosolids Handling and Septage Receiving FacilityLocated in City of Pontiac, Oakland County, MichiganCONTRACTOR: Tooles Contracting Group LLCAddress: 535 Griswold Suite 2550Detroit, MI 48226

Authorization for Extras To &amp; Changes In Contract

Change Order No: 43 Date Issued: 8/13/2020

Auth No.	Location-Description-Reason	Unit Used	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
	<b><u>LOCATION:</u></b> Clinton River Water Resource Recovery Facility - <b>1</b> Septage Receiving Building <b>2</b> Digester Building <b>3</b> Site north of Digester Building <b>4 &amp; 5</b> Biosolids Handling Building					
	<b><u>DESCRIPTION:</u></b> <b>1 Change/Add</b> Provide all materials, labor, and equipment to install Ethernet cables from the Flowpoint PLC Cabinet (Field Terminal Box) to the truck unloading Access Terminal Nos. 1 and 2, as described in the attached Field Change Request #39, dated June 17, 2020.	LS	1	\$849.30	\$849.30	---
	<b>2 Change/Add</b> Provide all materials, labor, and equipment to extend the Secondary Digester temperature sensor insertion length to 32 inches, as described in Work Directive #56, dated October 09, 2019.	LS	1	\$2,816.69	\$2,816.69	---
	<b>3 Change/Add</b> Provide all materials, labor, and equipment to power the existing flare control panel from the new lighting panel in the Digester Electrical Building. Provide an additional connection for a signal from the Digester Input Output Panel (DIOP) to the flare, as described in the attached Work Directive #52, dated September 06, 2019.	LS	1	\$8,438.75	\$8,438.75	---
	<b>4 Change/Add</b> Provide all materials, labor, and equipment to replace pressure transmitter PIT-205A with a pressure gauge and provide credit for not installing conduit and wire between PIT-205 to DIOP, as described in the attached Work Directive #55 dated September 18, 2019.	LS	1	\$1,315.91	\$1,315.91	---

CONTRACTOR: Tooles Contracting Group LLCAddress: 535 Griswold Suite 2550Detroit, MI 48226

Authorization for Extras To &amp; Changes In Contract


Change Order No: 43 Date Issued: 8/13/2020

Auth No.	Location-Description-Reason	Unit Used	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
<b>5</b>	<b>Change/Add</b> Provide all materials, labor, and equipment to install a 3/4 RPZ backflow preventer on the potable water in the Boiler Room, as described in Field Change Request #36 dated April 28, 2020  <b>REASON:</b>  <b>1</b> The Flowpoint equipment requires this Ethernet cable to operate properly. This cable requirement was not known during the development of Work Directive #51.  <b>2</b> The concrete wall thickness of the Secondary Digester required a longer sensor to extend into the tank for accurate readings.  <b>3</b> The existing flare control panel was powered from a lighting panel in the Digester Control Building that did not meet classification requirements and was demolished. In addition, the existing flare control panel needed a signal from DIOP to turn off the flare pilot when digester gas is not going to the flare.  <b>4</b> During installation it was noticed that pressure transmitter PIT-205A was redundant so it was replaced with pressure gauge to result in a better installation.  <b>5</b> During installation it was observed that an additional backflow preventor was required to isolate the potable water system from process piping in the Boiler Room  Note: CDM Smith and WRC have reviewed the methods and costs of this work based upon similar work of this type. The prices in this change order are fair and reasonable. See attached backup materials from Tooles Contracting Group.	LS	1	\$2,096.85	\$2,096.85	---
				Totals	\$15,517.50	\$0.00
				<b>Net Increase</b>	\$15,517.50	---

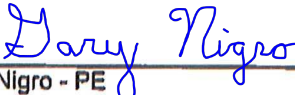
CHANGE ORDER NO. 43

JIM NASH Water Resources Commissioner

For Construction of the Biosolids Handling and Septage Receiving Facility

Prepared by:  Date: 8/14/2020  
Project Engineer – Razik Alsaigh - PE  
Oakland County Water Resources Commissioner's Office

Recommended by:  Date: 8/14/2020  
Consulting Engineer – Edward St John - PE  
CDM Smith - Consulting Engineer

Approved by:  Date: August 18, 2020  
Chief Engineer – Gary Nigro - PE  
Oakland County Water Resources Commissioner's Office

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

Accepted by:  Date: 08/14/2020  
of: Tooles Contracting Group LLC

Approved by:  Date: 8/20/2020  
Manager – Sidney Lockhart, P.E.  
Construction Management  
Oakland County Water Resources Commissioner's Office

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

This Change Order No. 43 was approved by the Drainage Board on: \_\_\_\_\_

Jim Nash, Oakland County Water Resources Commissioner  
BioSolids Handling & Septage Receiving Facility Project  
City of Pontiac, Oakland County, MI

Regular Construction Estimate No. 35 ✓

Estimate Period: July 1, 2020 to July 31, 2020 ✓

Contractor

Tooles Contracting Group LLC  
535 Griswold, Suite 2550  
Detroit, MI 48226

Department No.: 6010101  
Fund No.: 84686  
Project No.: 100000002181  
Account No.: 731472  
Program No.: 149015  
Activity: FAC  
Purchasing Contract No.: 5179

Substantial Completion Date: June 27, 2019  
Extended to: NA

Notice to Proceed: June 27, 2017  
Final Completion Date: September 25, 2019  
Extended to: January 6, 2020

Original Contract Amount: \$32,370,771.00

Previous Change Orders: \$1,168,853.91  
Numbers: #1 through 39

Change Orders This Estimate: \$49,656.34  
Numbers: # 40, 41 & 42

Total Net Change Orders: \$1,218,510.25

Adjusted Contract Amount: \$33,589,281.25 ✓

Sub-Total To Date: (Sheet 2 of 2 Column 7) \$33,205,522.73

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

Gross Estimate: (Work in Place) 98.86% \$33,205,522.73

Less Amount Reserved: (Lump Sum) \$1,644,919.77

Less Liquidated Damages For Milestone #1  
266 days (March 29, 2019 to Dec 20, 2019) \$478,800.00

Less Liquidated Damages For Final Completion  
173 days (January 3, 2020 to July 31, 2020  
excluding 37 COVID19 days) \$346,000.00

Less Amount to be Reserved \$820,119.77

Total Amount Allowed To Date: \$31,560,602.96

Less Previous Estimates: \$31,446,216.82 ✓

Net Payment Request To Be Paid To Contractor: \$114,386.14 ✓

Reserve Payment to Contractor \$0.00

Balance of Contract To Date \$ ✓ 383,758.52 Accounting Auditor: *jlb*

Amount To Be Reserved (From Above) \$1,644,919.77

Less Previous Transfers To Reserve: \$1,644,919.77

Amount of Current Transfer: \$0.00

Less Prior Liquidated Damages Payment To Construction Account: \$762,800.00 ✓

Less Current Liquidated Damages Payment To Construction Account: \$62,000.00

Amount of Current Reserve: \$820,119.77 ✓

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

Date: 08/17/2020

Recommended by: *Edmund H. J.*  
CDM Smith

Date: 8/17/2020

Approved by: *Gary Nigro*  
Gary Nigro - Chief Engineer

Date: Aug 18, 2020

Approved by: *Sid Lockhart*  
Sid Lockhart, P.E. - Special Projects Manager

Date: Aug. 18, 2020

Regular Construction Estimate No. 35

Approved By Board On: \_\_\_\_\_

# Use As Original

**Jim Nash, Oakland County Water Resources Commissioner**  
**Clinton River Water Resources Recovery Facility Administration Building Renovation and Addition**  
**City of Pontiac, Oakland County, Michigan**

Regular Construction Estimate No. 15

July 1, 2020 to July 31, 2020

Department No.: 6010101  
Fund No.: 82686  
Project No.: 1-2787

Account No.: 731472  
Program No.: 149667  
Activity: FAC

Contractor:

Frank Rewold and Son, Inc.  
303 East Third Street - Suite 300  
Rochester, MI 48307

Contract No.: 5704  
Date of Contract: December 18, 2018  
Completion Date: April 16, 2020  
Extended to: N/A

Original Contract Amount: \$2,564,206.00

Previous Change Orders: \$0.00  
Numbers: (none)

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

Total Net Change Orders: \$0.00

Adjusted Contract Amount: \$2,564,206.00 ✓

Sub-Total To Date: (Sheet 3 of 3 Column 7) \$2,479,689.38

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

Gross Estimate: (Work in Place) 96.70% \$2,479,689.38

Less Amount Reserved: (Lump Sum) \$91,843.09

Total Amount Allowed To Date: \$2,387,846.29

Less Previous Estimates: \$2,325,179.87 ✓

Net Payment Request To Be Paid To Contractor: \$33,701.47 ✓

Reserve Payment to Contractor \$28,964.95

Balance of Contract To Date \$ ✓ 84,516.62 Accounting Auditor: *jls*

Amount To Be Reserved (From Above) \$91,843.09

Less Previous Transfers To Reserve: \$120,808.04 ✓

Amount of Current Transfer: (\$28,964.95) ✓

Prepared by: *Razik Alsaigh*  
Razik Alsaigh - Project Engineer

Date: 08/12/2020

Recommended by: *Mimi T. Van Pelt*  
Fishbeck, Thompson, Carr & Huber - Consulting Engineer

Date: 08/12/2020

Approved by: *Darry Nigro*  
Gary Nigro - Chief Engineer, Construction Management

Date: Aug 13, 2020

Approved by: *Sid Lockhart*  
Sid Lockhart - Special Projects Manager

Date: 8/17/2020

Regular Construction Estimate No. 15

Approved By Board on: \_\_\_\_\_

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

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



**DATE:** August 25, 2020

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

	Ref No.	For	Amount
CDM Smith Michigan, Inc	TBP	Invoice # 40 - Engineering Admin - 07/05/20 - 08/01/20 - Proj 1-2181	9,603. 78
		<b>Total for Project # 1-2181</b>	<b>\$ 9,603.78</b>



**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

*Shawn Phelps*

**DATE:** August 25, 2020

**SUBJECT:** Request for Approval of Invoices

The following is a detail of charges paid from the Drain Revolving Fund and Invoices  
for the period of July 18, 2020 to August 17, 2020.

Payable To	Ref No.	For	Amount
USA Blue Book	July 2020 Pcard	Pcard - Lab Supplies	\$ 1,794.73
USA Blue Book	July 2020 Pcard	Pcard - Lab Supplies	1,308.13
Meadowbrook Insurance Agency	TBP	Invoice # 5152 - Insurance	19,842.00
Davis & Davis Law Offices PLC	V # 1458596	Invoice # OCWRC-06-14-20 - Legal Services	14,173.75
Lowry Tire Company	V # 1456116	Invoice # 70553 - Contracted Services	2,419.70
Mechanical System Services	V # 1457117	Invoice # 200820 - Contracted Services	2,100.00
PVS Technologies Inc	V # 1457744	Invoice # 272514 - Chemical Treatment	2,273.28
PVS Technologies Inc	V # 1457745	Invoice # 272515 - Chemical Treatment	3,550.08
JCI Jones Chemicals Inc	V # 1457737	Invoice # 827527 - Chemical Treatment	2,522.50
JCI Jones Chemicals Inc	V # 1457734	Invoice # 826275 - Chemical Treatment	2,402.40
Marine Pollution Control	V # 1458681	Invoice # 39283 - Contracted Services	2,561.26
Pro-Seal Service Group	V # 1459954	Invoice # 203113 - Contracted Services	1,411.25
D3W Industries	TBP	Invoice # 2184 - Material and Supplies	11,550.00
D3W Industries	V # 1457682	Invoice # 2167 - Material and Supplies	11,550.00
HOH Water Technology Inc	TBP	Invoice # 583991 - Contracted Services	1,700.00
Biotech Agronomics Inc	TBP	Invoice # 2564 - Land Application - July 2020	59,532.25
Thundermop Maintenance	TBP	Invoice # 200808 - Janitorial Services - August 2020	1,412.20
Polydyne Inc	TBP	Invoice # 1473894 - Chemical Treatment	20,455.20
Polydyne Inc	TBP	Invoice # 1473895 - Chemical Treatment	21,146.40
D'Angelo Brothers Inc	TBP	Invoice # 6732-VWTP - Contracted Services	4,205.00
Hamlett Environmental	TBP	Invoice # 202220 - Material and Supplies	1,436.00
Endress + Hauser Inc	TBP	Invoice # 6002017816 - Contracted Services	3,709.01
<b>Subtotal</b>			<b>\$ 193,055.14</b>
Ch2m Hill Engineers Inc	TBP	Invoice # 683676CH007 - Professional Services - 04/24/20 - Proj# 1-3246	\$ 12,964.92
<b>Subtotal - Project 1-3246</b>			<b>\$ 12,964.92</b>
Ch2m Hill Engineers Inc	TBP	Invoice # 683676CH008 - Professional Services - 04/24/20 - Proj# 1-3177	\$ 8,156.03
<b>Subtotal - Project 1-3177</b>			<b>\$ 8,156.03</b>
Airea Inc	TBP	Invoice # 52297 - Material Management - Proj # 1-2787	\$ 5,601.55
<b>Subtotal - Project 1-2787</b>			<b>\$ 5,601.55</b>
Hazen and Sawyer	TBP	Invoice # 0000008 - Contracted Services - 6/1/20 - 6/30/20 - Proj # 1-3064	\$ 16,376.00
Hazen and Sawyer	TBP	Invoice # 0000009 - Contracted Services - 7/1/20 - 7/31/20 - Proj # 1-3064	21,768.00
<b>Subtotal - Project 1-3064</b>			<b>\$ 38,144.00</b>
<b>Total</b>			<b>\$ 257,921.64</b>



## **5. George W. Kuhn Drain**

## **AGENDA**

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

August 25, 2020

1. Call meeting to order
2. Approve minutes of meeting of July 28, 2020
3. Public Comments
4. Present Memorandum requesting the Board approve the services of HRC and Spicer for work related to the GWK Drain Headwaters Outfall Project in the amount of \$11,500
5. Present Change Order No. 2 for Weiss Construction for a net increase in the amount of \$51,432
6. Present Construction Estimate No. 12 for Weiss Construction in the amount of \$292,388.65
7. Present request for Board approval of payment of invoices in the amount of \$44,049.88
8. Other business
9. Approve pro rata payment to Drainage Board members
10. Adjourn

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

July 28, 2020

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

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

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 June 23, 2020 were presented for consideration. It was moved by Zack, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

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

Construction Estimate No. 11 for Weiss Construction in the amount of \$88,240 (as attached) was presented. It was moved by Zack, supported by Woodward, to approve Construction Estimate No. 11 in the amount of \$88,240 as presented.

ADOPTED: Yeas - 3  
Nays - 0

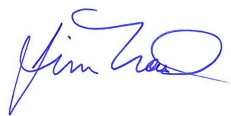
A request for Board approval of payment of invoices in the amount of \$2,737.50 (as attached) was presented. It was moved by Zack, supported by Woodward, that the invoices in the amount of \$2,737.50 be paid as presented.

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 Ms. Zack and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.

A handwritten signature in blue ink, appearing to read "Jim Nash", is positioned above a horizontal line.

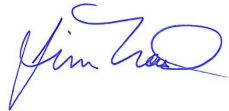
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Jim Nash, Chairperson

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 of the George W. Kuhn Drain, Oakland County, Michigan, held on the 28<sup>th</sup> day of July, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

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



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Jim Nash, Chairperson

Dated: August   3  , 2020

**OAKLAND COUNTY  
WATER RESOURCES COMMISSIONER**

**MEMORANDUM**

**TO:** Jim Nash, Chairman of the Drainage Board for the George W. Kuhn Drain

**FROM:** George P. Nichols, P.E., Civil Engineer III *GPN*

**SUBJECT:** GWK Drain Open Drain Headwaters Outfall Repair Project

**DATE:** August 25, 2020

The U.S. Army Corp of Engineers (USACE) has offered our office the opportunity to capture \$1,165,000 of available funds from previous accounts that are no longer being used. This offer requires a 25 percent match contribution from the GWK Sewage Disposal Fund. At the February 25, 2020 board meeting, you authorized the allocation of \$388,333 of matching funds from that fund.

Since that time, Hubbell, Roth & Clark, Inc (HRC) and the Spicer Group, Inc. (Spicer) have been working with our office to provide documents and exhibits to the USACE, along with updated cost estimates, property records and costs associated with participating in project-scope meetings. Their services have aided in getting this project allocated in a timely manner so it can administered for bidding this fall. For your convenience, I've attached HRC's August 10, 2020 proposal letter for work performed and ongoing work for an amount not to exceed \$11,500.

The GWK Drainage District Sewage Fund has the necessary funds available to pay for these services.

**Requested Action**

**Authorize the services of HRC and Spicer in the amount of \$11,500 for work rendered on the GWK Drain Headwaters Outfall Project.**

August 14, 2020

Oakland County Water Resources Commissioner  
One Public Works Drive  
Building 95 West  
Waterford, Michigan 48328

Attn: Mr. George P. Nichols, P.E. Civil Engineer III

Re: George W. Kuhn (GWK) Drain  
USACE Funding Assistance

Dear Mr. Nichols:

On behalf of the project team of Hubbell, Roth & Clark, Inc. (HRC) and the Spicer Group, Inc. (Spicer), we would first like to thank you for the opportunity to assist on this important project. The Oakland County Water Resources Commissioner's Office has established a collaborative relationship with the U.S. Army Corps of Engineers (USACE) that has provided funding for capital improvement projects saving the County millions of dollars. Annually, the USACE reviews project funding requests from WRC. In early 2020, the repair of the GWK Drain Outlet was determined to be a priority due to deteriorating sheet piling, erosion, access road issues, and outfall repairs needed based on submittals supported by our team. This work was identified during the comprehensive Operations and Maintenance Study performed by the Red Run Intercounty Drain Drainage Board.

Assistance tasks for USACE Funding includes additional project scoping to meet funding availability through the USACE. Our team has prepared and revised numerous exhibits for USACE, updated cost estimates, provided property records, and are still currently responding to USACE inquiries to facilitate this funding. We believe the GWK outlet will receive funding in 2021 as an USACE administered project in the amount of \$1,553,333 including the 25% match.

We appreciate your consideration for this proposal for work performed and ongoing in an amount not to exceed \$11,500. It is proposed that costs would be invoiced monthly on an hourly basis in accordance with our current contract procedures. If you have any questions or require any additional information, please contact the undersigned.

Very truly yours,

HUBBELL, ROTH & CLARK, INC.



James F. Burton, P.E.  
Vice President

pc: HRC; File

CHANGE ORDER NO. 2

Jim Nash, Oakland County Water Resources Commissioner, County Agency  
 For Construction of the Dequindre Pump Station Rehabilitation- George W. Kuhn Drain Drainage District  
 Located in Madison Heights, Oakland County, Michigan

CONTRACTOR: Weiss Construction

Address: 4000 Renaissance Center, Suite 2170  
Detroit, MI 48243

Authorization for Extras To &amp; Changes In Contract

Change Order No: 2 Date: 8/14/2020

Auth No.	Location-Description-Reason	Unit Used	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
	<b><u>LOCATION:</u></b>					
	<b>Dequindre Pump Station</b> <b>-George W. Kuhn Drain Drainage District</b>					
	<b><u>DESCRIPTION:</u></b>					
A	<b><u>Extra / Add</u></b> Additional cost related to Work Change Directive #3: Mounting new emergency generator mufflers on the roof in lieu of inside the generator room.	LS	1	\$5,432.00	\$5,432.00	---
B	<b><u>Extra / Add</u></b> Additional cost to widen and reinforce the masonry opening at the East Courtyard door opening	LS	1	\$12,500.00	\$12,500.00	---
C	<b><u>Extra / Add</u></b> Additional cost to remove and replace the Monorail Beam supporting the new hoist crane.	LS	1	\$25,034.00	\$25,034.00	---
D	<b><u>Extra / Add</u></b> Additional cost to install an extra limit switch contact to the Plug Valve in order to communicate with the PLC	LS	1	\$8,466.00	\$8,466.00	---
	<b><u>REASON:</u></b>					
A	Work Change Directive #3 was previously approved via Change Order #1 (dated 4/17/20). Weiss Construction recognized an accounting error in their quote tabulation. The cost for their material and equipment was not carried over to their summary column. The result was that the amount approved in Change Order #1 did not reflect the actual cost of the work. The amount reflected in this Change Order accounts for the cost that was missed in Change Order #1					
B	The widening and reinforcement of the masonry opening at the East Courtyard is an owner requested change. The GWK staff recognized that their lawn mower was too wide to fit in the designed courtyard door opening. There is a need to store this equipment in the East Courtyard and in order to safely move the lawn mower through the opening the masonry and steel framing needed to be altered. This additional cost reflects all related work to modify this opening.					

JIM NASH

OAKLAND COUNTY WATER RESOURCES COMMISSIONER



CONTRACTOR: Weiss Construction

Authorization for Extras To &amp; Changes In Contract

Address: 4000 Renaissance Center, Suite 2170  
Detroit, MI 48243Change Order No: 2Date: 8/14/2020

Auth No.	Location-Description-Reason	Unit Used	Est. Quant.	Unit Price	Amount Increase	Amount Decrease
C	Removing and replacing the Monorail Beam supporting the new hoist crane is an owner requested change. Prior to installing the new hoist crane it was observed that the existing Monorail Beam was twisted/tilted. Upon further investigation it was determined the existing beam was installed on an angle to match the sloped roof. Upon consultation with the manufacturer of the new hoist crane it was found that the crane was not designed for this installation and use in this manner would result in reduced crane capacity as well as additional maintenance. A new Monorail Beam installed at the crane manufacturers specifications is required.					
D	Installing an extra limit switch contact to the Plug Valve is an owner requested change. The Plug Valve was manufactured with (2) limit switches which meets the design intent. It was determined that "best practice" would be to have a 3rd limit switch in order to properly communicate with the PLC. This extra limit switch will allow the Plug Valve to signal the soft start to stop the pump once the valve is closed as well as report a closed and open signal to the PLC for position indication on the SCADA screen.					
					Totals	\$51,432.00
					Net Increase	\$51,432.00
						\$0.00
						---

JIM NASH

OAKLAND COUNTY WATER RESOURCES COMMISSIONER

CHANGE ORDER NO. 2

JIM NASH Water Resources Commissioner, County Agency

For Construction of the Dequindre Pump Station Rehabilitation- George W. Kuhn Drain Drainage District

Prepared by: [Signature] Date: 8/19/2020  
Project Engineer – Craig Tiell  
Oakland County Water Resource Commissioner

Recommended by:  
Consulting Engineer – John Arvai, P.E.  
Wade Trim

**John Arvai**

Digitally signed by John Arvai  
DN: C=US, E=jarvai@wadetrim.com, O=Wade Trim,  
OU=Vice President, CN=John Arvai  
Date: 2020.08.17 12:27:00-04'00'

Approved by: [Signature] Date: August 17, 2020  
Chief Engineer – Gary Nigro, P.E.  
Oakland County Water Resource Commissioner

Approved by: [Signature] Date: 8/18/2020  
Special Project – Sid Lockhart, P.E.  
Manager Oakland County Water Resource Commissioner

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

Accepted by: [Signature] Date: 8-14-2020  
Project manager  
Title

of: WEISS Construction Co., LLC

Approved by: [Signature] Date: August 19, 2020  
Manager – Steven A. Korth, P.E.  
Oakland County Water Resource Commissioner

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

**Jim Nash, Oakland County Water Resources Commissioner  
Dequindre Pump Station Rehabilitation  
George W. Kuhn Drain Drainage District  
Oakland County, Michigan**

Regular Construction Estimate No. 12 ✓

July 1, 2020 to July 31, 2020

Department No.: 6010101  
Fund No.: 58520  
Project No.: 1-2190

Account No.: 730373  
Program No.: 149667  
Activity: FAC

Contractor:  
Weiss Construction  
4000 Renaissance Center, Suite 2170  
Detroit, MI 48243

Date of Contract: May 14, 2019  
Completion Date: August 30, 2020  
Extended to: N/A

Original Contract Amount: \$5,845,000.00

Previous Change Orders: \$89,077.00  
Numbers: Change Order #1

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

Total Net Change Orders: \$89,077.00

Adjusted Contract Amount: \$5,934,077.00 ✓

Sub-Total To Date: \$4,995,512.20

Less Deductions: \$0.00

Gross Estimate: (Work in Place) 84.18% \$4,995,512.20

Less Amount Reserved: (10% of 1/2 Adjusted Contract Amount) \$296,703.85

Total Amount Allowed To Date: \$4,698,808.35 ✓

Less Previous Estimates: \$4,406,419.70 ✓

Net Payment Request To Be Paid To Contractor: \$292,388.65

Reserve Payment to Contractor \$0.00

Balance of Contract To Date \$ ✓ 938,564.80 Accounting Auditor: *JLB*

Amount To Be Reserved (From Above) \$296,703.85

Less Previous Transfers To Reserve: \$296,703.85 ✓

Amount of Current Transfer: \$0.00

Prepared by: *Craig Tiell*  
Craig Tiell - Project Engineer

Date: *8/17/2020*

Recommended by: **John Arvai**  
John Arvai, P.E. - Consulting Engineer

Digitally signed by John Arvai  
DN: C=US, E=jarvai@wadetrin.com, O=Wade Trim, OU=Vice President, CN=John Arvai  
Date: 2020.08.17 12:28:51-04'00'

Approved by: *Gary Nigro*  
Gary Nigro, P.E. - Chief Engineer, Construction Management

Date: *August 17, 2020*

Approved by: *Sid Lockhart*  
Sid Lockhart, P.E. - Special Project Manager, Construction Management

Date: *Aug. 18, 2020*

Regular Construction Estimate No. 12

Approved By Board On: \_\_\_\_\_

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

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



**DATE:** August 25, 2020

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

Payable To	Ref No.	For	Amount
OHM	TBP	Invoice # 326275 - Professional Services -07/25/20	871.25
Environmental Consulting & Tech	TBP	Invoice # 202795 - Contracted Services - 06/26/20	1,974.92
Dickinson Wright, PLLC	TBP	Invoice # 1494901- Legal Services - 06/30/2020	3,268.94
Dickinson Wright, PLLC	TBP	Invoice # 1494893 - Legal Services - 06/30/2020	3,235.26
Dickinson Wright, PLLC	TBP	Invoice # 1494889 - Legal Services - 06/30/2020	3,350.32
Dickinson Wright, PLLC	TBP	Invoice # 1494888 - Legal Services - 06/30/2020	3,264.12
Dickinson Wright, PLLC	TBP	Invoice # 1494887 - Legal Services - 06/30/2020	3,519.46
Dickinson Wright, PLLC	TBP	Invoice # 1494885 - Legal Services - 06/30/2020	4,165.88
Dickinson Wright, PLLC	TBP	Invoice # 1494877 - Legal Services - 06/30/2020	7,209.17
Dickinson Wright, PLLC	TBP	Invoice # 1494886 - Legal Services - 06/30/2020	3,382.45
Dickinson Wright, PLLC	TBP	Invoice # 1494902 - Legal Services - 06/30/2020	3,178.37
Dickinson Wright, PLLC	TBP	Invoice # 1494890 - Legal Services - 06/30/2020	3,288.62
Dickinson Wright, PLLC	TBP	Invoice # 1494876 - Legal Services - 06/30/2020	909.55
Dickinson Wright, PLLC	TBP	Invoice # 1494905 - Legal Services - 06/30/2020	2,423.80
Dickinson Wright, PLLC	TBP	Invoice # 1494903 - Legal Services - 06/30/20	7.77
<b>Total</b>			<b>\$ 44,049.88</b>

## **6. Karas Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE KARAS DRAIN**

August 25, 2020

1. Call meeting to order
2. Approve minutes of meeting of November 26, 2019
3. Public Comments
4. Present Memorandum recommending the Board approve and sign the attached temporary easement to accommodate the City of Rochester Hills Water Main Project
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

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

November 26, 2019

A meeting of the Drainage Board for the Karas 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 November, 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

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

Minutes of the meeting held July 24, 2018 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 Drain Revolving Fund in the amount of \$148.29 (as attached) was presented. It was moved by Woodward, supported by Nash, to reimburse the Drain Revolving Fund in the amount of \$148.29.

ADOPTED: Yeas - 2  
Nays - 0

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

ADOPTED: Yeas - 2  
Nays - 0

There being no further business, the meeting was adjourned.


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



STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Karas Drain, Oakland County, Michigan, held on the 26<sup>th</sup> day of November, 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 Karas Drain Drainage District.

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

Dated: December 4<sup>th</sup>, 2019



**OAKLAND COUNTY  
WATER RESOURCES COMMISSIONER**

**MEMORANDUM**

**TO:** Karas Drain Drainage Board

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

**SUBJECT:** City of Rochester Hills Water Main Project – Temporary Easement

**DATE:** August 25<sup>th</sup>, 2020

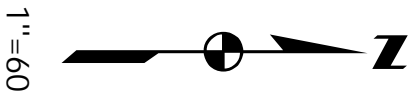
The City of Rochester Hills is requesting a temporary easement to provide a storage and staging area associated with a water main project within property owned by the Karas Drainage District. The temporary easement will be used by its water main contractor, Bidigare Contractors, Inc. The subject property is located south of M-59, east of Crooks Road, and West of Livernois Road in Section 28 of the City of Rochester Hills. The property was originally purchased in 1988 by the district for construction, operation and maintenance of a portion of the Karas Drain.

Attached are the following documents for your review:

- Map of the property with the proposed temporary easement shown in green
- The deed as recorded in Liber 11524, Page 782, O.C.R.
- Temporary easement document signed by Bidigare Contractors, Inc
- Certificate of liability insurance naming the Drainage District as an additional insured
- City of Rochester Hills construction plans

**It is recommended the Board authorize the chairperson to execute documents necessary to accommodate the City of Rochester Hill's request.**





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

KARAS DRAINAGE DISTRICT  
CITY OF ROCHESTER HILLS  
Oakland County, Michigan

NE  
Section 28  
NW  
Section 28

One Public Works Drive  
Building 95 West  
Waterford, Michigan  
48328-1907  
**WRC**  
WATER RESOURCES COMMISSIONER  
Jim Nash



## DEED

LIBER 11524 PG 782

THIS DEED, made this 9th day of September, 1988, by and between Patrick J. Keating and Phillip Baykian, as Co-Trustees of the Thomas A. Nardoni Amended and Restated Living Trust under Agreement dated August 26, 1986, as amended, and not otherwise, the address of which is 2649 Commerce Drive, Rochester, Michigan ("Grantor"), and the Karas Drain Drainage District the address of which is No. 1 Public Works Drive, Pontiac, Michigan ("Grantee").

## W I T N E S S E T H:

In consideration of the sum of One Dollar (\$1.00) (this transaction is exempt from transfer tax pursuant to MCL §207.505(a)), Grantor does hereby grant, assign and convey unto Grantee the following described premises situated in the City of Rochester Hills, Michigan to wit:

Outlot "A" of TAN Industrial Park, a subdivision of the N 1/2 and part of the SW 1/4 of Section 28, T3N, R11E, City of Rochester Hills, Avon Township, Oakland County, Michigan, as recorded in Liber 184 of Plats, Pages 15-18, Oakland County Records.

Sidwell Number 15-28-301-017

184015  
0001 AUG.23.90 10:48AM  
5597 DEEDS 7.00

together with all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining.

SUBJECT to building and use restrictions and easements, except that certain Storm Sewer Maintenance Agreement dated September 25, 1984 and recorded in Liber 8909, Page 748, Oakland County Records.

TO HAVE AND TO HOLD the premises above described unto Grantee; and Grantor does hereby covenant and agree with Grantee that Grantor has not heretofore done, committed or wittingly or willingly suffered to be done or committed any act, matter or thing whatsoever whereby the premises hereby granted is or shall be charged or encumbered in the title, estate, or otherwise howsoever.

IN WITNESS WHEREOF, Grantor has executed this Deed on the day and year first above written.

In the Presence of:

O.K. JH

Colleen R. Gyuran

Colleen R. Gyuran

Kristyn H. Cousino

Kristyn H. Cousino

By:

Patrick J. Keating

Patrick J. Keating, as Co-Trustee of the Thomas A. Nardoni Amended and Restated Living Trust Under Agreement dated August 26, 1986, as amended, and not otherwise

Pat. Keating  
81084

WEN 61

Theresa Lee  
Theresa Lee

Kenneth Woloszyk  
Kenneth Woloszyk

By: Phillip Baykian  
Phillip Baykian, as Co-Trustee of the Thomas A. Nardoni Amended and Restated Living Trust Under Agreement dated August 26, 1986, as amended, and not otherwise

STATE OF MICHIGAN )  
 )  
COUNTY OF WAYNE ) SS.

The foregoing instrument was acknowledged before me this 17 day of July, 1989, by Patrick J. Keating, as Co-Trustee of the Thomas A. Nardoni Amended and Restated Living Trust Under Agreement dated August 26, 1986, as amended, and not otherwise.

Colleen R. McDermott  
\_\_\_\_\_, Notary Public  
Wayne County, Michigan  
My Commission Expires: 3-20-90  
COLLEEN R. McDERMOTT

STATE OF MICHIGAN )  
 )  
COUNTY OF Oakland ) SS.

The foregoing instrument was acknowledged before me this 18 day of July, 1989 by Phillip Baykian, as Co-Trustee of the Thomas A. Nardoni Amended and Restated Living Trust Under Agreement dated August 26, 1986, as amended, and not otherwise.

Cynthia Lee Clark  
\_\_\_\_\_, Notary Public  
Notary Public, Macomb County, Michigan  
Acting in Oakland County, Michigan  
My Commission Expires: 10-14-89

Drafted by:  
Timothy M. Koltun, Esq.  
Clark, Klein & Beaumont  
1600 First Federal Building  
Detroit, Michigan 48226-1962

When recorded, return to:

**GEORGE W. KUHN**  
OAKLAND COUNTY DRAIN COMMISSIONER  
1 Public Works Drive  
Pontiac, Michigan 48054  
Right of Way Unit

## **TEMPORARY CONSTRUCTION EASEMENT**

KNOW ALL MEN BY THESE PRESENTS, that the **KARAS DRAIN DRAINAGE DISTRICT** ("Drainage District"), a Michigan Statutory Corporation, acting through the Drainage Board for the **KARAS 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, GRANTOR, for and in consideration of the sum of **ONE DOLLAR (\$1.00)** receipt of which is hereby acknowledged, paid to them by **BIDIGARE CONTRACTORS, INC**, GRANTEE, whose address is **939 South Mill Street, Plymouth, Michigan 48170**. GRANTOR does hereby grant to the said GRANTEE the right to use the Temporary Easement Area described herein in accordance with the terms and conditions set forth herein:

### **RECITALS:**

- A. The GRANTOR is the owner of certain real property described as follows  
(the "Premises"):

**Outlot A of "Tan Industrial Park"** a Subdivision of part of the North 1/2 and part of the Southwest 1/4 of Section 28, T.03N., R.11 E., Avon Township, now the City of Rochester Hills, Oakland County, Michigan as recorded in Liber 184 of Plats, Page 15 thru 18 Oakland County Records.

***Sidwell No. 15-28-301-017***

- B. The GRANTEE desires to acquire from the GRANTOR certain temporary rights to the Premises for construction activities.

### **IT IS THEREFORE AGREED:**

1. **Grant of Temporary Easement.** Grantor hereby grants to Grantee a temporary easement for the construction and staging described as follows, and which shall terminate upon completion of construction being no later than December 31<sup>st</sup>, 2020:

Beginning at a point on the South line of the above described parcel, said point located N 86° 46' 34" W, 216.00 ft. from the Southeast corner of

said parcel; thence from said POINT OF BEGINNING N 86° 46' 34" W, 165.86 ft. along said South parcel line; thence N 00° 58' 00" E, 41.37 ft.; thence S 88° 52' 53" E, 56.36 ft.; thence S 77° 00' 47" E, 111.90 ft.; thence S 01° 08' 30" W, 24.44 ft. to the point of beginning.

2. **Purpose of the Easement.** The temporary easement granted herein shall be used only for the initial construction project in accordance with the plans and specifications prepared by City of Rock Hill # E20-00/ Oct 28 dated 11/04/19 and approved by the Drain Board at its meeting on **August 25th, 2020.**

3. **General Conditions.**

a. Except as otherwise agreed in writing between the GRANTOR and GRANTEE, GRANTEE will preserve and protect all trees and shrubbery within the temporary easement during the construction project.

b. Except as otherwise provided herein, 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 or assigns.

c. GRANTOR retains, reserves, and shall continue to enjoy the use of the temporary easement for any and all purposes which do not interfere with, obstruct the use of or prevent use by GRANTEE.

d. GRANTEE agrees to limit use to the temporary easement area as described and also as shown on the attached sketch.

e. To the extent permitted by law GRANTEE and its successors or assigns, shall indemnify the GRANTOR against, and shall forever hold the GRANTOR harmless from, any and all losses, liability, actions, claims, demands, costs, expenses, injuries or damages of any kind whatsoever which may be brought or made which shall be caused by or arise out of any use of the premises by GRANTEE and its successors, assigns, guests, visitors, invitees, licensees, and any other person coming upon the premises.

f. Prior to the Effective Date of this agreement and continuing for the duration of use of the premises, GRANTEE shall obtain and maintain General Liability Insurance with GRANTOR listed as an additional named insured protecting the GRANTOR from any and all claims arising from use of the premises. The GRANTEE will provide proof of insurance to GRANTOR prior to construction activities on the premises.

g. 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 Temporary Easement.

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

i. A map of the above-described Temporary Easement is attached hereto.

j. 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 Easement must be in writing and must be signed by the party to be charged.

k. This Easement 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 Easement 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.

l. 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.

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

n. It is understood and agreed between the Parties that a failure by either Party to fulfill a condition or term set forth in this Easement shall not result of extinguishment of the easement rights granted herein or constitute a waiver of such term or condition.

*(Remainder of this page intentionally left blank)*

IN WITNESS WHEREOF, the GRANTOR has hereunto affixed their signature(s) this 11 day of August, A.D., 2020.

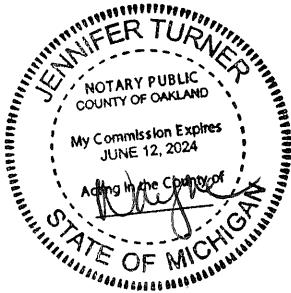
**BIDIGARE CONTRACTORS, INC.,**  
a Michigan Domestic Profit Corporation

By: [Signature]  
John Bidigare  
Its: Vice President

**ACKNOWLEDGEMENT**

STATE OF )  
 )SS.  
COUNTY OF )

On this 10<sup>th</sup> day of August, 2020, before me, a Notary Public in and for said County, personally appeared John Bidigare to me personally known, who being by me severally duly sworn did say that he is the V.P. of **Bidigare Contractors, Inc.**, a corporation created and existing under the laws of the State of Michigan, and that the said Easement was signed and sealed in behalf of said domestic profit corporation by authority of its V.P. and the said Corporation acknowledged the said instrument to be the free act and deed of the said Corporation.



[Signature]  
Notary Public  
Oakland County, Michigan  
My Commission Expires: June 12, 2024  
Acting in County of Wayne

*(Additional Signatures on the following page)*





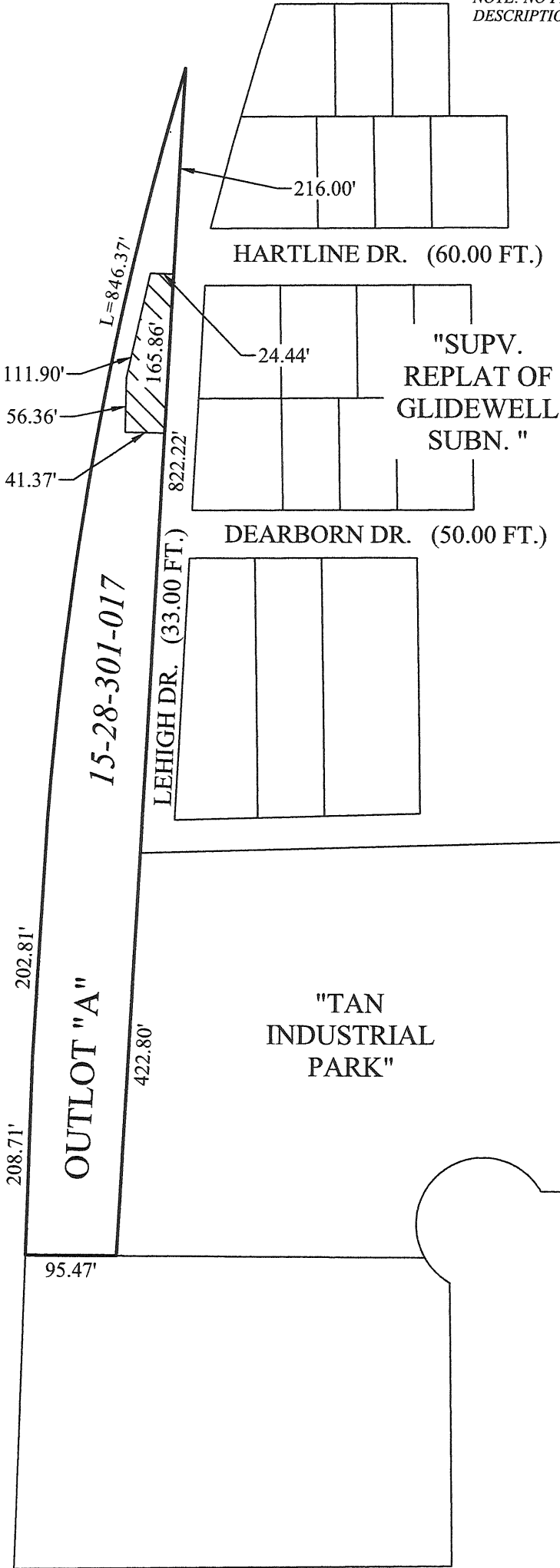
EASEMENT SKETCH

NOTE: NO FIELD WORK PERFORMED  
DESCRIPTION TAKEN FROM RECORD.



SCALE: 1" = 150'

M - 59

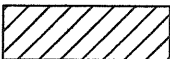


PROJECT: CITY OF ROCHESTER HILLS WATER MAIN PROJECT

08/06/2020

EASEMENT PARCEL NO. 1 DWG. 1 OF 1

TEMPORARY EASEMENT



SIDWELL NO. 15-28-301-017

Outlot "A" of "TAN Industrial Park" a Subdivision of Sec. 28, T. 03N., R. 11 E., Rochester Hills, Oakland County, Michigan

JIM NASH  
OAKLAND COUNTY WATER RESOURCE COMMISSIONER  
Page 1 of 1

Rev.:07/30/2013



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

8/7/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER VTC Insurance Group Troy Office 1175 W. Long Lake Ste. 200 Troy MI 48098-4960	CONTACT NAME: Gayle Botner	
	PHONE (A/C, No, Ext): (248) 828-3377	FAX (A/C, No): (248) 828-3741
INSURED Bidigare Contractors, Inc. 939 S. Mill Street Plymouth, MI 48170	E-MAIL ADDRESS: gbotner@vtcins.com	
	INSURER(S) AFFORDING COVERAGE	
	INSURER A: Phoenix Insurance Company	NAIC # 25623
	INSURER B: Travelers Indemnity Company	25658
	INSURER C: Travelers Prop. Cas.Co. Of Ame	25674
	INSURER D: Farmington Casualty Company	41483
	INSURER E: Colony Insurance Company	39993
	INSURER F:	

## COVERAGES

CERTIFICATE NUMBER: 19-20 Master

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY	X	Y	CO8L534549	12/31/2019	12/31/2020	EACH OCCURRENCE \$ 1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000
	<input checked="" type="checkbox"/> X, C, U Included						MED EXP (Any one person) \$ 5,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PERSONAL & ADV INJURY \$ 1,000,000
	<input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						GENERAL AGGREGATE \$ 2,000,000
	OTHER:						PRODUCTS - COMP/OP AGG \$ 2,000,000
B	AUTOMOBILE LIABILITY	X	Y	BA8L528045	12/31/2019	12/31/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS						BODILY INJURY (Per accident) \$
	<input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident) \$
							Property protection \$ 1,000,000
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> EXCESS LIAB			CUP8L49410	4/15/2020	12/31/2020	EACH OCCURRENCE \$ 7,000,000
	<input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE						AGGREGATE \$ 7,000,000
	DED <input checked="" type="checkbox"/> RETENTION \$ 0						
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	N/A	Y	UB8L54794A	12/31/2019	12/31/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						E.L. EACH ACCIDENT \$ 500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE \$ 500,000
							E.L. DISEASE - POLICY LIMIT \$ 500,000
E	Pollution Liability			CSP307226	7/5/2020	7/5/2021	\$1,000,000 Limit
C	Leased/Rented Equipment			6608A099789	12/31/2019	12/31/2020	\$300,000 Limit

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Project: Bedford Square & Tienken Court Water Main Replacement & Road Resurfacing - City File #E19-006 and Glidewell Subdivision Water Main Replacement - City File #E20-004. Where required by written contract, City of Rochester Hills, all elected and appointed officials, all employees and volunteers, all boards, commissions and/or authorities and board members, including employees and volunteers thereof and Testing Engineers & Consultants, Inc.; Construction Engineer and Karas Drain Drainage District are add'l insured for General Liability (GL) as respects ongoing & completed operations on a primary & non-contributory basis and add'l insured with respects to Automobile liability. GL, Auto & Workers Comp

## CERTIFICATE HOLDER

## CANCELLATION

City of Rochester Hills 1000 Rochester Hills Dr. Rochester Hills, MI 48309	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE Alan Chandler/V45 <i>Alan P. Chandler</i>

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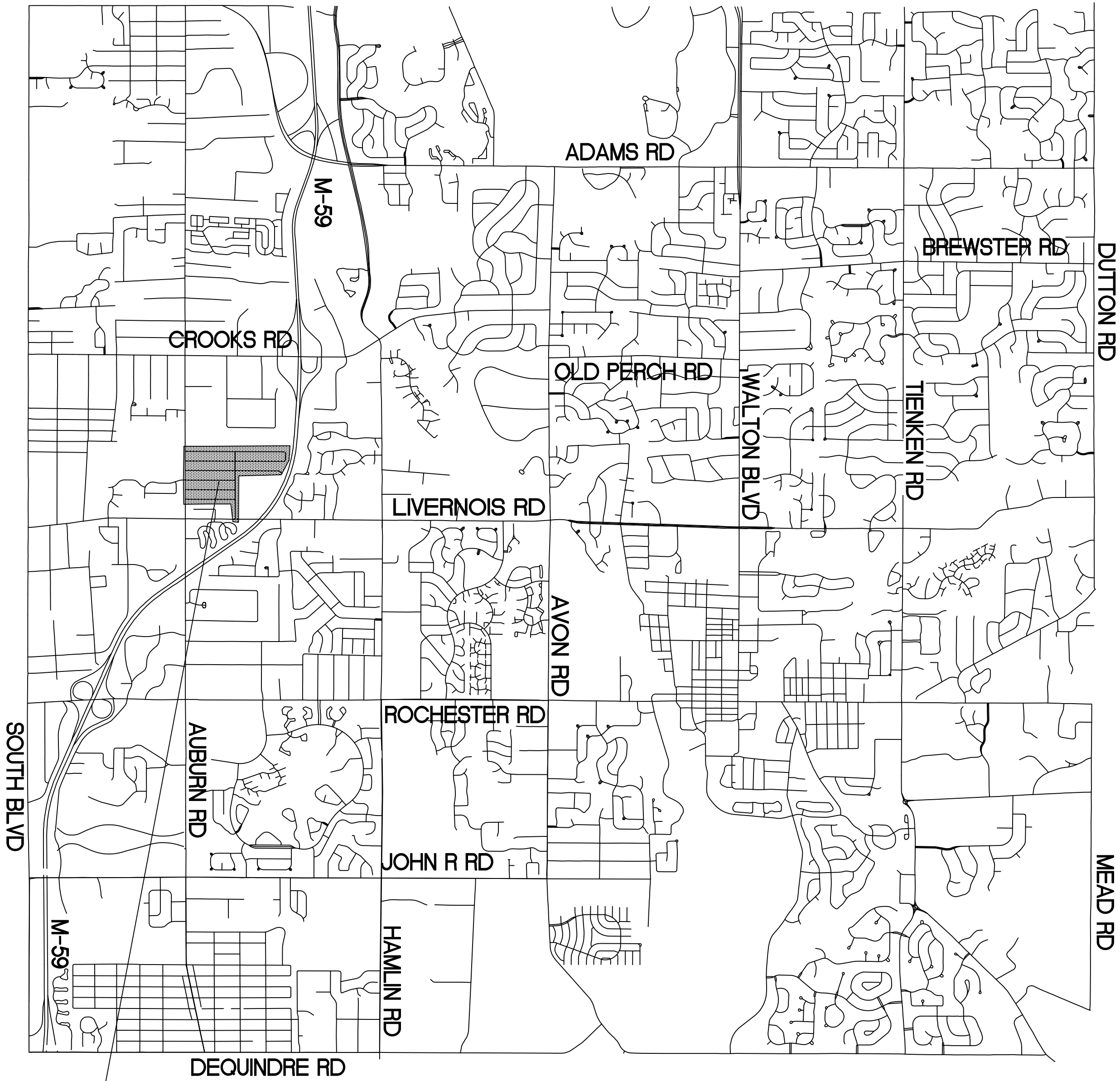
# City of Rochester Hills

OAKLAND COUNTY, MICHIGAN

Construction plans for  
Gildewell Subdivision  
Water Main Replacement Project  
City File # E20-004

## Water Main Quantities

Item No.	Description	Quantity	Unit
1	10 inch Dia. HDPE SDR 11 Pipe Bursting 6/8 inch	15,404	Foot
2	10 inch Dia. HDPE SDR 11 Water Main, Open Cut	748	Foot
3	16 inch DIA. CL 54 Ductile Iron Water Main, Open Cut	10	Foot
4	Water Service, Lead Reconnect, w/valve & stop box assembly (short)	138	Each
5	Water Service, Lead Reconnect, w/valve & stop box assembly (long)	151	Each
6	Water Service 1 1/2", Lead Reconnect, w/valve & stop box assembly (long)	1	Each
7	16 inch Gate Valve & Well	1	Each
8	10 inch Gate Valve & Well	31	Each
9	8 inch Gate Valve & Well	1	Each
10	6 inch Gate Valve & Well	1	Each
11	4 inch Gate Valve & Well	1	Each
12	8/6/4 inch Gate Valve & Well, Rem	34	Each
13	Connect to Existing Water Main	14	Each
14	Fire Hydrant	26	Each
15	Fire Hydrant, Rem	26	Each



PROJECT  
SITE

## Sheet Index

- |       |   |
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| 5     | Hartline Drive 0+00 to 14+95                  |
| 6     | Hartline Drive 14+95 to 30+05                 |
| 7     | Simpson Drive 0+00 to 14+03                   |
| 8     | Simpson Drive 14+03 to 29+02                  |
| 9     | Woodelm 0+00 to 14+99                         |
| 10    | Walsh 0+00 to 14+99                           |
| 11    | Cornthia 0+00 to 15+04                        |
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| 14    | Soil Erosion Detail                           |
| 15    | Road, Pathway and Curb Cross Sections Details |
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| 18-20 | Water Main Detail Sheets                      |

## LOCATION MAP

CITY OF ROCHESTER HILLS  
OAKLAND COUNTY, MICHIGAN





GENERAL

COOPERATION BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY DELAY OR INCONVENIENCE DUE TO MATERIAL SHORTAGES OR REASONABLE DELAYS DUE TO THE OPERATIONS OF SUCH OTHER PARTIES DOING WORK INDICATED OR SHOWN ON THE PLANS OR IN THE PROPOSAL OR FOR ANY REASONABLE DELAYS IN CONSTRUCTION DUE TO THE ENCOUNTERING OF EXISTING UTILITIES THAT MAY OR MAY NOT BE SHOWN ON THE PLANS.

LIMITATIONS ON PRIVATE WORK. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS ADJACENT TO THE PROJECT WITHOUT PRIOR CITY CONSENT. WORK MAY BE ALLOWED WHEN REQUESTED BY THE CITY, BUT ONLY WITH WRITTEN CONSENT.

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND OPERATIONS WITHIN THIS CONTRACT. COSTS TO BE INCLUDED IN THE RESPECTIVE ITEM OF WORK.

THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE LOCAL FIRE & POLICE DEPARTMENT, POST OFFICE, AND ROOM 24 HOURS IN ADVANCE OF PROPOSED ROAD CLOSURES.

THE NUMBER OF FIRE HYDRANTS OUT OF SERVICE AT ONE TIME IS LIMITED. ONCE A PROPOSED SEQUENCE OF CONSTRUCTION HAS BEEN SUBMITTED, CITY STAFF WILL CONSULT WITH THE FIRE DEPARTMENT TO CONFIRM THE NUMBER OF FIRE HYDRANTS OUT OF SERVICE IS ACCEPTABLE.

THE CONTRACTOR SHALL, BEFORE EACH DAYS WORK, OR WHEN MOVING TO A NEW AREA OF WORK, DETERMINE AND EVALUATE THE LOCATION OF ALL UNDERGROUND FACILITIES IN THE AREA. IF LOCATION STAKES HAVE BEEN MOVED OR DO NOT APPEAR CORRECT.

THE CONTRACTOR SHALL NOT EXCAVATE UNTIL ALL UTILITIES HAVE HAD AN OPPORTUNITY TO CHECK OR RESTAKE THEIR LOCATIONS. ANY DELAYS INCURRED, DUE TO THE CHECKING OR RESTAKING OF UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION.

THERE WILL BE NO ADJUSTMENT IN THE CONTRACT UNIT PRICE REGARDLESS OF THE PERCENTAGE OF INCREASE OR DECREASE ABOVE OR BELOW THE CONTRACT QUANTITY FOR ANY ITEM OF WORK.

IT IS THE INTENT THAT ALL GOVERNMENT CONCERNS ON THIS PROJECT BE PRESEVED AND THAT WHERE NECESSARY, MONUMENT BOXES BE PLACED OR ADJUSTED AT THE CONTRACTORS EXPENSE WHETHER SHOWN OR NOT.

THE LOCATION OF ALL PUBLIC UTILITIES SHOWN ON THESE PLANS IS TAKEN FROM THE BEST AVAILABLE DATA. CITY OF ROCHESTER HILLS WILL NOT BE HELD RESPONSIBLE FOR ANY OMISSION OR VARIATIONS FROM THE LOCATIONS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CITY STAFF WILL CONSIDER THE LOCATION OF THIS CONTRACT NOTICE SHALL BE GIVEN TO MISS DIG PRIOR TO UNDERGROUND WORK TO BE PERFORMED.

(800)482-7171 OR 811.

CONTRACTOR TO SUBMIT DETAILED CONSTRUCTION SEQUENCE AT THE PRECONSTRUCTION MEETING NOTING ALL CHANGES TO PROPOSED SCHEDULE OF WORK, PROPOSED OR WORK PROPOSED TO OCCUR CONCURRENTLY WITH OTHER ITEMS OF WORK. PLAN DIMENSIONS AND MEASUREMENTS ARE BASED ON AERIAL CONTOURS BY CITY OF ROCHESTER HILLS.

THE CONTRACTOR IS REQUIRED TO PROSECUTE WORK UNDER THIS CONTRACT DURING THE HOURS OF DAYLIGHT IN ACCORDANCE WITH THE CITY OF ROCHESTER HILLS ORDINANCE. WORKING HOURS IN WHICH NOISE CAN BE MADE ARE 7:00 A.M. - 8:00 P.M., MONDAY THRU SATURDAY. SUNDAY AND NIGHT WORK IS PERMITTED ONLY BY PRIOR APPROVAL OF THE MAYOR.

STORAGE/STAGING AREA FOR EQUIPMENT AND MATERIAL NEEDS TO BE PROVIDED TO THE CITY PRIOR TO THE COMMENCEMENT OF WORK.

TRAFFIC CONTROL

TRAFFIC SHALL BE MAINTAINED DURING THE CONSTRUCTION IN ACCORDANCE WITH THE CONSTRUCTION PLANS, (MUTUO (LATEST EDITION), SPECIFICATION 0250 AND ANY TRAFFIC TYPICAL PLANS INCLUDED IN SPECIFICATIONS. IN ADDITION TO THE LIGHTS, BARRICADES AND SIGNS SPECIFIED ON THE CONSTRUCTION PLANS, THE CONTRACTOR SHALL ALSO PROVIDE NECESSARY SIGNS, BARRICADES AND LIGHTS TO PROTECT THE TRAFFIC AND THE WORK AS DIRECTED BY THE PROJECT ENGINEER. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE PLASTIC DRUMS WITH BATTERY POWERED FLASHERS AND TRAFFIC CONE LIGHTS TO BE USED TO PROTECT THE TRAFFIC AND THE WORK. THE DRUMS SHALL BE SPACED AT 50 FOOT MAXIMUM INTERVALS.

THE CONSTRUCTION INFLUENCE AREA (C.I.A.) SHALL CONSIST OF THE WIDTH OF THE PROPOSED RIGHT-OF-WAY FROM THE PROJECT POINT OF BEGINNING TO THE POINT OF ENDING OR AS OTHERWISE INDICATED ON THE PLANS AND A SUFFICIENT DISTANCE BEFORE AND AFTER THE PROJECT TO WARN MOTORISTS OF THE CONSTRUCTION AHEAD OR AS OTHERWISE DESCRIBED.

THE COSTS OF ALL TRAFFIC CONTROL DEVICES NECESSARY TO CONSTRUCT THE PROJECT AS DETERMINED BY THE CONTRACTOR OR AS DIRECTED BY PROJECT ENGINEER WILL BE CONSIDERED INCLUDED IN THE LUMP SUM BID FOR MAINTAINING TRAFFIC. ALL DEVICES TO HAVE LIGHTS OR FLASHERS MOUNTED ON THEM. ROADS TO BE OPEN TO LOCAL TRAFFIC.

HDPE PIPE INSTALLATION

THE CONTRACTOR SHALL ALLOW SUFFICIENT LENGTH OF PRODUCT PIPE TO EXTEND PAST THE TERMINATION POINT TO ALLOW CONNECTIONS TO ADJACENT PIPE SECTIONS OR GATE VALVES.

PIPE AND FITTINGS NECESSARY FOR TRANSITION TO HDPE AT GATE VALVE AND WELL AND/OR TSG&W WILL BE INCLUDED IN THE PAY ITEM "GATE VALVE AND WELL" OR "TAPPING SLEEVE GATE VALVE AND WELL".

THE CONTRACTOR SHALL INSTALL A 10 GAUGE (MIN. 1 SINGLE STRAND COPPER C&B STEEL WITH 30 MIL BLUE COATING TRACER WIRE OR APPROVED EQUAL) AT THE SAME TIME AS THE PRODUCT PIPE. THE SAME TYPE OF WIRE MAY BE USED TO HOLD THE WIRE INTO OF THE MAIN. THE WIRE SHALL BE RUN TO THE TOP STEP OF EACH UTILITY STRUCTURE, AND BE TIED OFF WHEN THE STRUCTURE IS FILLED. THE WIRE SHALL BE USED TO IDENTIFY THE LOCATION OF THE CONNECTION, A GREASE FILLED, UNDERGROUND SERVICE KIT SHALL BE USED FOR ALL CONNECTIONS.

HDPE PIPE, APPURTENANCES, AND INSTALLATION METHODS SHALL CONFORM TO THE LATEST EDITION OF AWWA STANDARD C906. THE AWWA STANDARD C906 IDENTIFICATION MUST APPEAR ON THE EXTERIOR WALL PRINT LINE OF THE HDPE PIPE.

ALL HDPE MATERIALS MUST BE LISTED AND APPROVED FOR USE WITH POTABLE WATER UNDER ANSINSPR STANDOPRD 14. THE EXTERIOR WALL PRINT OF ALL HDPE PIPE PROPOSED FOR INSTALLATION AND POTABLE USE MUST BEAR THE NSF-PW IDENTIFICATION.

MECHANICAL JOINT ADAPTER SHALL BE USED AT ALL TRANSITIONS FROM DUCTILE IRON TO HDPE.

RESTORATION

RESTORATION ITEMS AS FOLLOWS WILL BE PAID AS STATED IN THE CONTRACT DOCUMENTS FOR RESTORATION RESTORE ALL LANDSCAPE AREAS WITH: TOPSOIL, SURFACE, FURN, 3" DEEP, CLASS A SOD OR SEED, FERTILIZER, CHEMICAL NUTRIENT C.L.A.

EXISTING PAVEMENT (CONCRETE & BITUMINOUS), SIDEWALK, APPROACHES AND CURB GUTTER SHALL BE SAWED, REPAIRED AND REPLACED IN KIND TO MATCH EXISTING CONDITIONS AND SHALL BE BID AS PART OF THE RESTORATION.

WATER REQUIRED FOR SOD AND SEEDING SHALL BE INCLUDED IN THE CONTRACT COST FOR THESE ITEMS. WATER REQUIRED FOR COMPACTION SHALL BE INCLUDED IN THE COST OF CONSTRUCTION FOR THIS PROJECT.

ALL AREAS DISTURBED BY THE CONTRACTOR AND/OR HIS SUBCONTRACTOR BEYOND THE NORMAL CONSTRUCTION LIMITS OF THE PROJECT SHALL BE RESTORED TO ORIGINAL CONDITION AS SPECIFIED AND DIRECTED BY THE PROJECT ENGINEER. NO ADDITIONAL PAYMENT OR COMPENSATION WILL BE ALLOWED FOR THIS ACTIVITY.

RESTORATION SHALL BE PLACED ON SHOULDERS AT A DEPTH BELOW THE EDGE OF PAVEMENT TO ALLOW ROADWAY SURFACE WATER TO UNIFORMLY SHEET FLOW TO DITCHES.

SPRINKLER SYSTEMS SHALL NOT BE COVERED WHEN PLACING TOPSOIL AND SOD.

ALL DISTURBED AREAS TO BE RESTORED WITHIN SEVEN (7) DAYS OF COMPLETION OF WATERMAN AND OVERLAY.

CONTRACTOR TO CHECK ON SOD GROWTH & SUPPLEMENT AS NEEDED. COSTS FOR RESODDING TO BE INCLUDED IN THE UNIT PRICE FOR RESTORATION.

CONTRACTOR SHALL WATER ALL RESTORATION DAILY FOR 14 DAYS AT HIS EXPENSE.

ADDITIONAL LANDSCAPING TO BE ADDED AS DIRECTED AND APPROVED BY PROJECT ENGINEER.

SPRINKLER SYSTEMS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT NO ADDITIONAL COST.

SEQUENCE OF CONSTRUCTION SOIL EROSION CONTROL

1. CONTRACTOR TO PLACE APPROVED SOIL EROSION BARRIERS AT PLACES DESIGNATED ON PLAN WITHIN ALL CURRENT PHASE OF CONSTRUCTION.
2. REMOVE VEGETATION AND TOPSOIL FROM CONSTRUCTION AREA.
3. BEGIN CONSTRUCTION.
4. BEGIN EROSION CONTROL MEASURES.
5. COMPLETION OF CONSTRUCTION.
6. RESTORE ALL DISTURBED AREAS AS SPECIFIED HEREIN UNDER HEADING OF RESTORATION.
7. CONTRACTOR TO MAINTAIN SOIL EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT UNTIL GRASS IS ESTABLISHED. THEN THE CONTRACTOR IS TO REMOVE THEM.
8. THE CONTRACTOR SHALL INSTALL SILT FENCE AROUND SPOIL PILES THAT ARE TO REMAIN ON-SITE FOR THE DURATION OF CONSTRUCTION ACTIVITIES. THIS SHALL BE INCLUDED IN THE LUMP SUM UNIT PRICE FOR SOIL EROSION CONTROL MEASURES.
9. RESTORATION FOR CURRENT PHASE OF WORK SHALL BE SUBSTANTIALLY COMPLETE PRIOR TO BEGINNING CONSTRUCTION ON SUBSEQUENT PHASES.

ALL SOIL EROSION CONTROL MEASURES AS SHOWN ON THESE PLANS, OR AS NEEDED TO COMPLETE THIS PROJECT WILL BE PAID AS A LUMP SUM UNIT PRICE AS INCLUDED IN THE PROPOSAL. ALL CONSTRUCTED STORM SEWER STRUCTURES TO HAVE INLET FILTERS INSTALLED UNTIL RESTORATION IS ESTABLISHED. ADDITIONAL SILT FENCE AND/OR OTHER SOIL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE OAKLAND COUNTY WATER RESOURCES COMMISSIONER AND/OR PROJECT ENGINEER WHERE GRADES DICTATE AND A MINIMUM 25' VEGETATIVE BUFFER DOES NOT EXIST. ANY ADDITIONAL SILT FENCE TO BE INCLUDED IN THE LUMP SUM UNIT PRICE AS PROVIDED IN THE PROPOSAL.

THE EROSION CONTROL MEASURES AS BID SHALL BE PAYMENT IN FULL FOR ALL COSTS INCURRED WITH BURLAP WRAP OR STONE INLET FILTERS OF ALL EXISTING OR PROPOSED DRAINAGE STRUCTURES, INSTALLATION OF SOIL EROSION CONTROL, FIBER FENCE, ETC. AND MAINTENANCE OF SAID SOIL EROSION DEVICES THROUGH THE CONSTRUCTION. TWENTY-FIVE (25%) PERCENT SHALL BE PAID UPON INSTALLATION AND TWENTY-FIVE (25%) PERCENT WILL BE PAID UPON REMOVAL. THE REMAINING FIFTY (50%) PERCENT WILL BE PAID INCREMENTALLY WITH EACH SUBSEQUENT PAY ESTIMATE.

UTILITIES

THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES WITHIN THE PROJECT LIMITS:

AT&T	CITY OF ROCHESTER HILLS
AGORA WESSON	DEPARTMENT OF PUBLIC SERVICES
46 NORTH WIL STREET	PAUL DAVIS, CITY ENGINEER / DEPUTY DIRECTOR
POINTE LAUREL	1000 ROCHESTER HILLS DRIVE
(248) 459-0061	ROCHESTER HILLS, MI 48309
	(248) 656-4640
COMCAST	
PATRICK RINEHART	DETROIT EDISON
25626 TELEGRAPH	SASO TERPESKI
SOUTHFIELD, MI 48034	23 MILE ROAD
(248) 809-2710	SHILBY TWP., MI 48316
	(986) 997-2164
CONSUMERS ENERGY	
CHEBI PAYNE	WIDE OPEN WEST
4600 COOLIDGE HWY	FRANK BINGGHI
ROYAL OAK, MI 48073	32650 N. AYS DRIVE
	MADISON HEIGHTS, MI 48071
(248) 433-5618	(248) 677-9008

ALL UTILITIES WITHIN ZONE OF INFLUENCE OF PROPOSED WORK ARE TO BE FIELD LOCATED AND HAND DUG INCLUDED IN THE UNIT BID PRICES OR APPROPRIATE ITEMS.

ALL GAS FACILITIES SHALL BE PROTECTED AND SUPPORTED PER CONSUMERS ENERGY STDS. AS APPLICABLE.

PRIOR TO WORK ON FACILITIES BELONGING TO THE ABOVE AGENCIES, A MINIMUM OF 72 HOURS NOTICE MUST BE GIVEN IN ORDER TO INSURE PROPER INSPECTION BY THE RESPECTIVE AGENCIES.

ALL EXPLORATORY WORK REQUIRED FOR LOCATING EXISTING UTILITIES SHALL BE INCLUDED IN THE PAY ALLOWANCE FOR EXPLORATORY DIGGING.

THE EXISTING UTILITIES LISTED HEREIN AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AS OBTAINED FROM SURVEYS AND FROM UTILITY RECORD MAPS. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO SATISFY HIMSELF AS TO THEIR ACCURACY OR OF HIS RESPONSIBILITY IN CASE UTILITIES HAVE BEEN CONSTRUCTED, RELOCATED OR REMOVED.

OWNERS OF PUBLIC UTILITIES WILL NOT BE REQUIRED TO MOVE ADDITIONAL POLES AND STRUCTURES THAT ARE NOT SPECIFICALLY INDICATED AS SUCH ON THE PLANS.

THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO INSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.

FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL DIAL 800-482-7171 A MINIMUM OF THREE (3) WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS, PRIOR TO EXCAVATING IN THE VICINITY OF UTILITIES. ALL MISS DIG PARTICIPATING WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

ALL UTILITY CONFLICTS OBSERVED SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER.

CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL ABOVE AND BELOW GROUND UTILITIES, STRUCTURES, AND SURFACE FEATURES DAMAGED DURING CONSTRUCTION.

CONTRACTOR SHALL COORDINATE WATER MAIN SHUTDOWN WITH THE CITY OF ROCHESTER HILLS SO THAT PROPER NOTIFICATION CAN BE PROVIDED.

CONTRACTOR SHALL REPLACE ALL EXISTING SERVICE AND LATERAL CONNECTIONS TO THE EXISTING WATER MAIN UNLESS OTHERWISE NOTED.

MISCELLANEOUS

PROTECTION AND RESTORATION OF PROPERTY. EXISTING MAILBOXES DISTURBED BY CONSTRUCTION ON THE PROJECT SHALL BE TEMPORARILY RESET ALONG THE OWNERS DRIVEWAY OR ALONG AN INTERSECTING STREET. BEYOND THE DRIVEWAY OR STREET, EXISTING MAILBOXES SHALL BE REMOVED AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK WITHIN THE AFFECTED AREA. THE TEMPORARY RESETTING AND FINAL PLACEMENT OF THE MAILBOXES WILL BE CONSIDERED INCLUDED IN THE COST OF THE PROJECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE LIMITS OF CONSTRUCTION, INCLUDING EXISTING FENCING, LAWN, TREES AND SHRUBBERY.

WHEN HMA BOND COAT IS SPECIFIED ON THE PLANS OR REQUIRED BY THE PROJECT PROJECT ENGINEER IN THE CONSTRUCTION OF THE PROJECT, IT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE BID UNIT PRICE FOR RESTORATION. SAWING FOR PAVEMENT AND CURB REMOVAL IS REQUIRED AND IT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR SURFACE RESTORATION UNLESS OTHERWISE INDICATED ON THE PLANS.

UNLESS INDICATED ON THE PLANS, NO CONSTRUCTION ACTIVITIES INCLUDING THE PLACEMENT OF MATERIALS, EQUIPMENT ETC. SHALL OCCUR IN THE FLOOD PLAIN LIMITS. FLOW IN THE FLOOD PLAIN IS TO BE MAINTAINED AT ALL TIMES.

TAPER CURBS TO ZERO HEIGHT AT THE SIDEWALK OR RAMP. THE SIDEWALK TO MEET DRIVEWAY GRADES IN ACCORDANCE WITH THE CITY OF ROCHESTER HILLS STANDARDS.

FOR PROPOSED WORK IN AREAS CLOSE TO UTILITY POLES, NO EXCAVATIONS WITHIN TEN (10) FEET AND NO BORES WITHIN (3) FEET FROM THE UTILITY POLES ARE ALLOWED.

ALL TREES AND SHRUBS REQUIRED TO BE TRIMMED/PRUNED SHALL BE DONE IN A MANNER TO MAINTAIN NATURAL APPEARANCE. ALL TREES INDICATED TO BE PROTECTED ON THE PLANS OR AS DIRECTED BY THE PROJECT PROJECT ENGINEER SHALL HAVE TEMP. PROTECTIVE MEASURES INSTALLED PER STANDARD SPECIFICATIONS.

CONTRACTOR RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING TRAFFIC SIGNS DAMAGED BY HIS OPERATION DURING CONSTRUCTION. SIGNS TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD.

ACCESS TO AREAS OUTSIDE OF EASEMENT LIMITS TO BE APPROVED BY PROPERTY OWNERS PRIOR TO START OF CONSTRUCTION AND WRITTEN DOCUMENTATION OF SUCH APPROVAL FORWARDED TO THE PROJECT PROJECT ENGINEER. CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES WITH OTHER CONTRACTORS WORKING IN AREA. ANY DEWATERING NECESSARY TO CONSTRUCT THIS PROJECT AND ALL COSTS ASSOCIATED SHALL BE INCLUDED IN THE BID PRICE FOR DEWATERING.

ALL GRAVEL DRIVES TO BE 21AA AGGREGATE.

HORIZONTAL SEPARATION OF 10 FEET AND VERTICAL SEPARATION OF 18 INCHES SHALL BE MAINTAINED BETWEEN ALL WATER MAINS AND SANITARY/STORM SEWERS.

WATER MAINS SHALL BE PRESSURE TESTED AND DISCONNECTED IN ACCORDANCE WITH AWWA C900 AND C961 STANDARDS AND WITNESSED BY THE CITY OF ROCHESTER HILLS.

CONTRACTOR SHALL SALVAGE ALL FIRE HYDRANTS AND ASSEMBLIES NOTED FOR REMOVAL AND DELIVER TO DPS FACILITY.

MISC ITEMS OF WORK

SEVERAL PAY ITEMS INCLUDED IN THE PROPOSAL ARE NOT SPECIFICALLY SHOWN ON THE PLANS. THESE ITEMS SHALL BE CONSTRUCTED AS DIRECTED BY THE PROJECT PROJECT ENGINEER OR USED AS NEEDED. SEE CONTRACT DOCUMENTS FOR CONSTRUCTION PAY ITEM SPECIFICS. THEY ARE:

SOIL EROSION CONTROL MEASURES	LUMP SUM
AUDIO & VIDEO COVERAGE	LUMP SUM
PROTECTIVE MEASURES FOR EXISTING UTILITIES	LUMP SUM
UTILITY MAINTENANCE & CONTROL	LUMP SUM
NOISE MITIGATION	LUMP SUM

EXISTING UTILITY CROSSING NOTES:

THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE ELEVATION OF ALL EXISTING UTILITIES. THE PROPOSED WATER MAIN SHALL THEN BE CONSTRUCTED IN SUCH A MANNER AS TO MAINTAIN EXISTING UTILITIES AT OR ABOVE THEIR EXISTING ELEVATIONS. CROSSING OF EXISTING OPEN DRAINS SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

CONSTRUCTION NOTES:

ALL EXISTING UTILITIES SHOWN ON THIS CONSTRUCTION DRAWING HAVE BEEN TAKEN FROM VISUAL OBSERVATION, AND RECORD MAPPING WHERE AVAILABLE. NO GUARANTEE IS MADE OR SHOULD BE ASSUMED AS TO THE COMPLETENESS OR ACCURACY OF THE UTILITIES SHOWN ON THIS DRAWING. PARTIES UTILIZING THIS INFORMATION SHALL FIELD VERIFY THE ACCURACY AND COMPLETENESS PRIOR TO CONSTRUCTION ACTIVITIES.

ABANDONED WATER MAIN MUST BE CUT, PRESSURE GROUTED WITH FLOWABLE FILL AND BULKHEADED (TYPICAL). ALL AREAS OF THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PAY ITEM FOR "ABANDON EXISTING WATER MAIN".

MINIMUM VERTICAL CLEARANCE OF 18 INCHES AT ALL UTILITY CROSSINGS.

ALL WATER MAIN SHALL HAVE 6 FEET OF MINIMUM COVER FROM FINISH GRADE WHERE OPEN CUT IS USED.

ALL HYDRANTS TO BE 5.5 FEET BURY DEPTH. COVER/ ALL HYDRANTS NOT IN USE, TEN FOOT CULVERT TO BE PLACED IN FRONT OF PROPOSED HYDRANT IN DITCH WITH BACKFILL.

ADVANCED WARNING SIGNING FOR CLOSURE OF PATHWAY AND ROAD TO BE INCLUDED IN THE MAINTENANCE OF TRAFFIC PAY ITEM, SEE APPENDIX B OF CONTRACT BOOK FOR DETAILS. (IF APPLICABLE)

REPLACEMENT OF ASPHALT PATHWAY WITH A.D. RAMPS, CONCRETE SIDEWALK, CONCRETE CURB AND GUTTER, CONCRETE PAVEMENT AND ASPHALT PAVEMENT AFTER CONSTRUCTION OF WATER MAIN NEEDS TO BE CONSTRUCTED TO CURRENT A.D.A. AND ASHOTO STANDARDS.

TEMPORARY HMA PATHWAY MAY BE NECESSARY UNTIL PERMANENT RESTORATION CAN BE COMPLETED. THE TEMPORARY PATHWAY SHALL CONSIST OF 1.5" HMA OR 4" 21AA CRUSHED Limestone.

WATER SERVICES WILL BE BORED FOR LONG LEADS. MINIMUM DEPTH IS 5 FEET. ALL NEW SERVICES TO THE SAME AS EXISTING WATER SERVICES. NEW STOP BOX LOCATION TO BE DETERMINED IN FIELD BY INSPECTOR.

ESTABLISHED LAWN AREAS SHALL BE RESTORED WITH 3 INCHES OF SCREENED TOPSOIL, AND CLASS "A" SOD. ALL OTHER LAWN/FIELD AREAS SHALL BE RESTORED WITH 3 INCHES OF SCREENED TOPSOIL, FERTILIZER, SEED AND MULCH OR HYDRO-SEEDING.

ALL TRENCHES UNDER ROADWAY, DRIVEWAYS, SIDEWALKS, AND CURBS OR WHERE INDICATED ON PLANS SHALL BE COMPACTED SAND BACKFILL. ALL ADDITIONAL COST FOR SAND BACKFILL TO BE INCLUDED IN THE UNIT PRICE BID FOR WATER MAIN.

PROSPECTIVE BIDDERS ARE ADVISED THAT NO CLAIMS FOR EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO PROPERLY EVALUATE SOIL CONDITIONS AND THE EXTENT OF ANY SOIL DE WATERING THAT MAY BE NECESSARY TO PROPERLY CONSTRUCT THIS PROJECT.

CONTRACTORS SHALL PROTECT ALL MAILBOXES, DECORATIVE LANDSCAPING, SPRINKLER HEADS, SIGNS, ETC... ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER CONDITION PRIOR TO CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

CONTRACTOR SHALL DEFLECT JOINTS PER MANUFACTURERS RECOMMENDATIONS TO MAINTAIN VERTICAL AND HORIZONTAL ALIGNMENT UNLESS OTHERWISE INDICATED ON PLANS.

THE CONTRACTOR SHALL FURNISH AND PLACE THRUST BLOCKS AT ALL PLUGS, CAPS, TEES, FITTINGS, BENDS AND ELBOWS AS DIRECTED BY THE STANDARD DETAILS AND SPECIFICATIONS. ALL COSTS INCURRED SHALL BE INCLUDED IN THE UNIT PRICE BID FOR WATER MAIN.

ALL BENDS, FITTINGS, TEES, ETC. NECESSARY TO CONSTRUCT THE PROPOSED WATER MAIN AS SHOWN SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE STANDARD DETAILS AND SPECIFICATIONS. ALL COSTS ARE TO BE INCLUDED IN UNIT PRICE BID FOR WATER MAIN.

ALL COSTS FOR SUPPLYING AND INSTALLATION OF ALL NECESSARY FITTINGS, ADAPTORS, THRUST BLOCKS AND JOINT RESTRAINTS AS SHOWN ON THE TYPICAL GATE VALVE CONNECTION TO HOPE. DETAIL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR INSTALL. 10" G.V.&W".

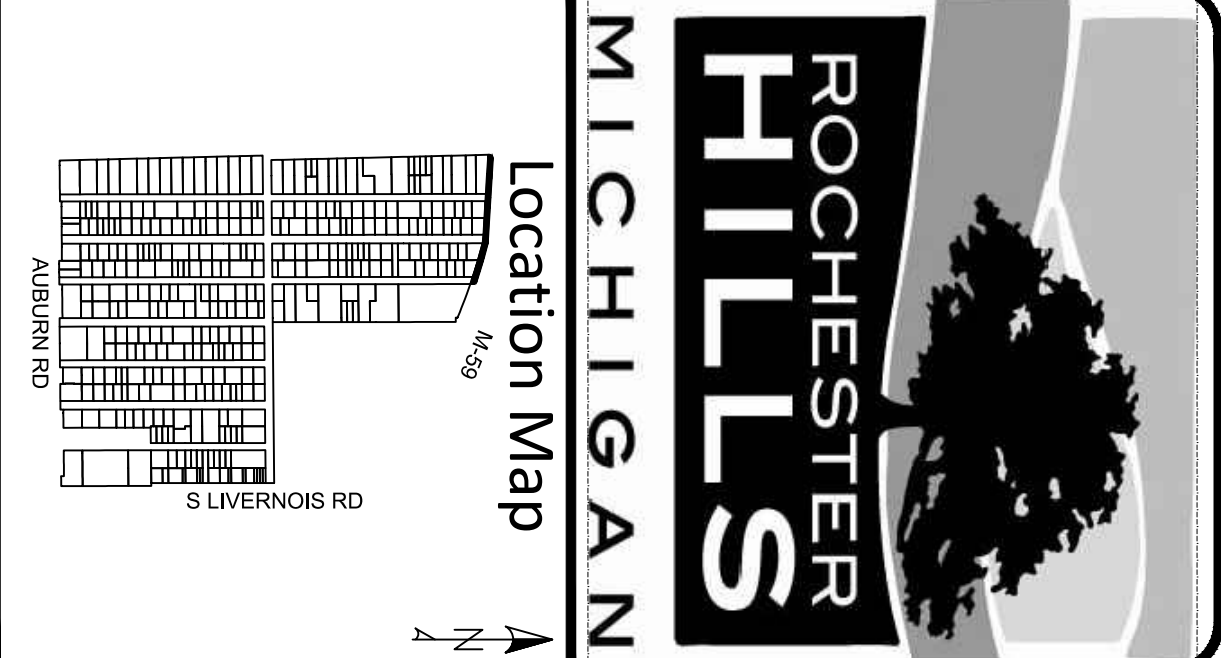


No.	Revision/Issue	Date	

City of Rochester Hills  
Department of Public Services  
1000 Rochester Hills Drive  
Rochester Hills, MI 48309  
Ph: (248) 656-4640

Notes

Project	Sheet
GLIDEWELLSUB	
Date	
11/04/2019	2
Scale	
NONE	



Legend:

- Gate Valve & Well
- Ex. Hydrant
- Water Shut Off
- Existing Water Main
- Sanitary Storm Sewer
- San - Existing Sanitary Sewer
- Storm Catch
- Storm Manhole
- End Section
- Existing Storm Sewer
- Bottom of Ditch
- OH - Overhead Wires
- Power Pole
- Light Pole
- GAS - Gas Line
- A.T.&T. Manhole
- Underground A.T.&T.
- Concrete Surface
- Gravel Surface
- Deciduous Tree
- Coniferous Tree

No.	Revision/Issue	Date

City of Rochester Hills  
Department of Public Services  
1000 Rochester Hills Drive  
Rochester Hills, MI 48309  
Ph: (248) 656-4640

Lawndale Dr  
0+00 to 6+45

Project	Sheet
GLIDEWELLSUB	12
Date	11/04/2019
Scale	1"=40'

4" CONCRETE (3500 MIN PSI)  
4" CRUSHED CONC. AGG. BASE,  
21AA Aggregate (Crushed  
Limestone or Concrete)

CONCRETE WALK DETAIL

No Scale

6" CONCRETE (3500 MIN PSI)  
4" CRUSHED CONC. AGG. BASE,  
21AA Aggregate (Crushed  
Limestone or Concrete)

CONCRETE WALK ACCESS DET.

No Scale

6" CONCRETE (3500 MIN PSI)  
4" CRUSHED CONC. AGG. BASE,  
21AA Aggregate (Crushed  
Limestone or Concrete)

CONCRETE DRIVEWAY DETAIL

No Scale

8" CONCRETE (3500 MIN PSI)  
6" CRUSHED CONC. AGG. BASE,  
21AA Aggregate (Crushed  
Limestone or Concrete)

CONCRETE PAVEMENT ROW DETAIL

No Scale

1.5" HMA SE3  
4" 21AA Aggregate (Crushed  
Limestone or Concrete)

ASPHALT PATHWAY DETAIL

No Scale

2.0" HMA SE3  
4" 21AA Aggregate (Crushed  
Limestone or Concrete)

ASPHALT DRIVEWAY DETAIL

No Scale

2" HMA SE3 (PG 64-22)  
2" HMA 4E3 (PG 64-22)  
2" 21AA Aggregate (Crushed  
Limestone or Concrete)

LOCAL ROAD DETAIL

No Scale

1" HMA SE3 (PG 64-22)  
3" HMA 4E3 (PG 64-22)  
3" HMA SE3 (2 LITS)  
10" 21AA Aggregate (Crushed Limestone or Concrete)

MAJOR ROAD DETAIL

APPROACH DETAIL FOR LIVERNOIS & AUBURN

Water Main Notes

- Pipe Burst stated throughout the plan view stands for "Pre-chlorinated pipe bursting method"
- Proposed stop-box relocation will be determined in the field for each service by inspector.
- Water services will be bored for long leads. Minimum depth is 5 feet. All new services to be the same as the existing water service.

Pavement Note

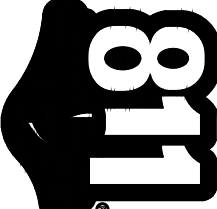
- The minimum road repair allowed will be 3 feet in width for all asphalt roads, no smaller road repairs will be acceptable, final dimensions to be determined in the field or as directed by engineer.

Project Benchmarks

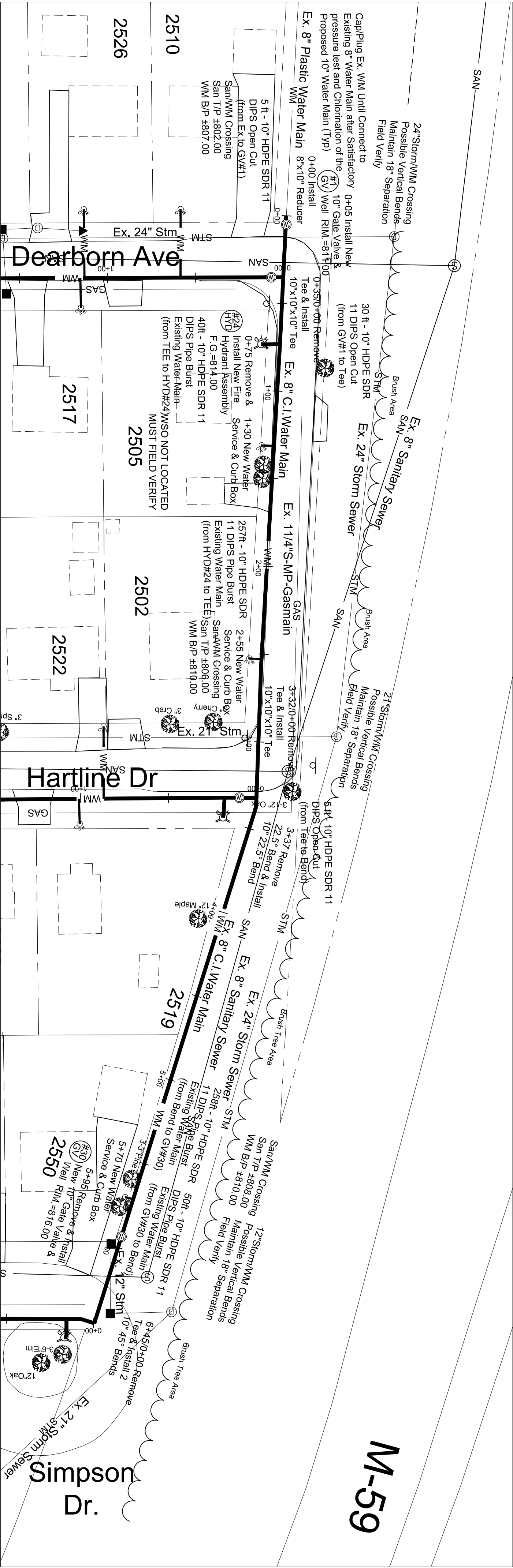
BM#1 CB Rim at #2550 Simpson and Simpson Elevation = 816.09	BM#2 CB Rim at Sw. Cor. Bagley San. MH at Simpson & Auburn Road Elevation = 827.50	BM#3 San. MH at Simpson & Auburn Road Elevation = 829.00
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Soil Erosion Notes

- The Karas Drain is in the north part of the subdivision and drains north to M59 and the south part of the subdivision drains to the Lueters Drain near Auburn Road
- The limits of earth disruption will be 10 feet on each side of the proposed water main at burst pits, structures, bends and open cut areas.
- Maintenance note: The soil erosion controls will be maintained weekly and after every storm by the underground contractor selected.
- Silt fence shall be installed at all existing storm sewer structures where the water main is being replaced and 10 feet on each side as allowable per the existing conditions.



Know what's below.  
Call before you dig.  
72 hours prior.



LAWNDALE DR ("66" FT)

See Sheet 3 Dearborn Ave

See Sheet 5 Hartline Dr

See Sheet 7 Simpson Dr

## **7. New Drain Project**



## AGENDA

### FIRST MEETING OF THE DRAINAGE BOARD

#### New Drain Project

City of Auburn Hills, Village of Beverly Hills, Village of Bingham Farms, City of Birmingham, Charter Township of Bloomfield, City of Bloomfield Hills, City of Farmington, City of Farmington Hills, Village of Franklin, City of Keego Harbor, City of Lathrup Village, City of Orchard Lake Village, City of Southfield, City of Troy, Charter Township of West Bloomfield

August 25, 2020

1. Call meeting to order
2. Present petitions from the Charter Township of West Bloomfield and the City of Southfield
3. Resolution to:
  - A. Acknowledge consideration of petitions
  - B. Determine that the drain project is necessary for the public health
  - C. Designate public corporations to be assessed

City of Auburn Hills  
Village of Beverly Hills  
Village of Bingham Farms  
City of Birmingham  
Charter Township of Bloomfield  
City of Bloomfield Hills  
City of Farmington  
City of Farmington Hills  
Village of Franklin  
City of Keego Harbor  
City of Lathrup Village  
City of Orchard Lake Village  
City of Southfield  
City of Troy  
Charter Township of West Bloomfield
  - D. Name the drain project and the drainage district
  - E. Set the time for the first hearing
  - F. Direct that notice be published in The Oakland Press
  - G. Direct that notice be mailed



4. Resolution to appoint Fishbeck as project engineer, Municipal Financial Consultants, Inc. as registered municipal advisor, and Dickinson Wright PLLC as bond counsel.
5. Other business
6. Adjourn

CITY OF AUBURN HILLS, VILLAGE OF BEVERLY HILLS, VILLAGE OF BINGHAM FARMS, CITY OF BIRMINGHAM, CHARTER TOWNSHIP OF BLOOMFIELD, CITY OF BLOOMFIELD HILLS, CITY OF FARMINGTON, CITY OF FARMINGTON HILLS, VILLAGE OF FRANKLIN, CITY OF KEEGO HARBOR, CITY OF LATHRUP VILLAGE, CITY OF ORCHARD LAKE VILLAGE, CITY OF SOUTHFIELD, CITY OF TROY, CHARTER TOWNSHIP OF WEST BLOOMFIELD  
COUNTY OF OAKLAND

NOTICE OF HEARING

RE: PETITIONS TO LOCATE, ESTABLISH AND CONSTRUCT AN INTRA-COUNTY DRAIN PROJECT IN THE CITY OF AUBURN HILLS, VILLAGE OF BEVERLY HILLS, VILLAGE OF BINGHAM FARMS, CITY OF BIRMINGHAM, CHARTER TOWNSHIP OF BLOOMFIELD, CITY OF BLOOMFIELD HILLS, CITY OF FARMINGTON, CITY OF FARMINGTON HILLS, VILLAGE OF FRANKLIN, CITY OF KEEGO HARBOR, CITY OF LATHRUP VILLAGE, CITY OF ORCHARD LAKE VILLAGE, CITY OF SOUTHFIELD, CITY OF TROY, CHARTER TOWNSHIP OF WEST BLOOMFIELD, OAKLAND COUNTY, MICHIGAN.

NOTICE IS HEREBY GIVEN, that pursuant to the provisions of Chapter 20 of Act No. 40 of the Public Acts of 1956, as amended, petitions were filed with the Water Resources Commissioner of Oakland County, Michigan, petitioning for the location, establishment and construction of an intra-county drain project consisting of the existing Evergreen-Farmington Sewage Disposal System and all improvements necessary to bring the Evergreen-Farmington Sewage Disposal System into compliance with Administrative Consent Order 04995 entered by the State of Michigan Department of the Environment, Great Lakes, and Energy on August 14, 2019, that serve property located within the City of Auburn Hills, the Village of Beverly Hills, the Village of Bingham Farms, the City of Birmingham, the Charter Township of Bloomfield, the City of Bloomfield Hills, the City of Farmington, the City of Farmington Hills, the Village of Franklin, the City of Keego Harbor, the City of Lathrup Village, the City of Orchard Lake Village, the City of Southfield, the City of Troy and the Charter Township of West Bloomfield.

NOTICE IS FURTHER GIVEN, that the Drainage Board for the drain project has considered the petitions and has made a tentative determination that the petitions are sufficient and that the drain project is practical; has given the name “[EVERGREEN-FARMINGTON SANITARY DRAIN]” as the name of the drain project and the name “EVERGREEN-FARMINGTON SANITARY DRAIN DRAINAGE DISTRICT” as the name of the drainage district therefor; and has made a tentative determination that the following public corporations should be assessed for the cost of the drain project, to wit:

City of Auburn Hills  
Village of Beverly Hills  
Village of Bingham Farms  
City of Birmingham  
Charter Township of Bloomfield  
City of Bloomfield Hills  
City of Farmington  
City of Farmington Hills  
Village of Franklin  
City of Keego Harbor  
City of Lathrup Village  
City of Orchard Lake Village  
City of Southfield  
City of Troy  
Charter Township of West Bloomfield

NOTICE IS FURTHER GIVEN, that the Drainage Board will meet on the \_\_\_\_ day of \_\_\_\_\_, 2020, at \_:\_ .m., prevailing Eastern Time, via GoToMeeting in accordance with the Governor's Executive Order No. 2020-154, for the purpose of hearing any objections to the drain project, to the petitions therefor, and to the matter of assessing the cost thereof to the public corporations above named. This notice is given to and for the benefit of the said public corporations and all taxpayers thereof. At the hearing any of said public corporations or any taxpayer thereof will be entitled to be heard.

NOTICE IS FURTHER GIVEN, that after such hearing the Drainage Board shall make a determination as to the sufficiency of the petitions, the practicability of the drain project, whether the drain project should be constructed, and if so, the public corporations to be assessed and shall issue an order known as the Final Order of Determination. Section 483 of Act No. 40 of the Public Acts of 1956, as amended, provides that the Final Order of Determination shall not be subject to attack in any court, except by proceedings in certiorari brought within 20 days after the order is filed in the Office of the Oakland County Water Resources Commissioner, the Chairperson of the Drainage Board for the [Evergreen-Farmington Drain], and that if no such proceeding shall be brought within said 20 day period the drain project shall not thereafter be questioned in any suit at law or in equity, either on jurisdictional or non-jurisdictional grounds.

This notice is given by order of the Drainage Board for the [Evergreen-Farmington Sanitary Drain].

---

Jim Nash  
Chairperson of the Drainage Board for the  
[Evergreen-Farmington Drain];  
Oakland County Water Resources  
Commissioner

Dated: \_\_\_\_\_, 2020

FIRST MEETING OF THE DRAINAGE BOARD  
[EVERGREEN-FARMINGTON SANITARY DRAIN]

AUGUST 25, 2020

The first meeting of the Drainage Board for the hereinafter mentioned Oakland County, Michigan drain project was held via GoToMeeting in accordance with the Governor's Executive Order No. 2020-154 on August 25, 2020.

PRESENT: \_\_\_\_\_

ABSENT: \_\_\_\_\_

The meeting was called to order by the Chairperson. The Chairperson presented to the Drainage Board the petitions referred to in the following resolution, attached to which petitions was a certified copy of each resolution of the respective governing body of the public corporation signing the same, authorizing the execution of the respective petition. The Chairperson stated that the petitions with the attached resolutions were filed in his office on [July 13, 2020, by the Charter Township of West Bloomfield and on July 20, 2020, by the City of Southfield]. After examination and consideration of the petitions, by unanimous consent, they were ordered filed with the Chairperson.

The following resolution was offered by \_\_\_\_\_ and seconded by \_\_\_\_\_:

BE IT RESOLVED BY THE DRAINAGE BOARD FOR THE HEREINAFTER MENTIONED OAKLAND COUNTY, MICHIGAN DRAIN PROJECT, as follows:

1. That this Drainage Board has considered the petitions and attached resolutions filed with the Oakland County Water Resources Commissioner on July 13, 2020, by the Charter Township of West Bloomfield and on July 23, 2020, by the City of Southfield, which petitions are as follows:

## **PETITION**

### **TO THE DRAINAGE BOARD FOR THE HEREINAFTER MENTIONED OAKLAND COUNTY, MICHIGAN DRAIN PROJECT**

The undersigned public corporation hereby petitions for the location, establishment and construction of an intra-county drain project consisting of the existing Evergreen-Farmington Sewage Disposal System and all improvements necessary to bring the Evergreen-Farmington Sewage Disposal System into compliance with Administrative Consent Order 04995 entered by the State of Michigan Department of the Environment, Great Lakes, and Energy on August 14, 2019, which improvements shall include, without limitation, one or more of the following:

1. The provision of additional outlet capacity for the Evergreen-Farmington Sewage Disposal System by purchasing said capacity from the Great Lakes Water Authority (“GLWA”), such purchase to enable GLWA to acquire and construct sewage disposal system improvements to remove downstream wet weather flow to allow for the additional outlet capacity for the Evergreen-Farmington Sewage Disposal System.
2. The acquisition and construction of improvements to the Walnut Lake Pump Station No. 1 to increase Evergreen Interceptor operating levels and the coordination of operations of facilities in the Evergreen-Farmington Sewage Disposal System.
3. Improvements at the 8 Mile SSO chamber, including but not limited to the acquisition, construction, and modification of piping, weirs, gates, and meters.
4. The acquisition and construction of other improvements to the Evergreen-Farmington Sewage Disposal System, including sewage retention tanks and associated pumps, piping, and connections.
5. Construction of storage facilities within the geographical limits of the Evergreen-Farmington Sewage Disposal System, including, without limitation, a multi-million gallon sewage retention tank on Eight Mile Road in the City of Southfield.

Said drain project is necessary for the public health, and will serve property located entirely within the limits of the City of Auburn Hills, the Village of Beverly Hills, the Village of Bingham Farms, the City of Birmingham, the Charter Township of Bloomfield, the City of Bloomfield Hills, the City of Farmington, the City of Farmington Hills, the Village of Franklin, the City of Keego Harbor, the City of Lathrup Village, the City of Orchard Lake Village, the City of Southfield, the City of Troy and the Charter Township of West Bloomfield (collectively, the “Communities”). The Evergreen-Farmington Sewage Disposal System collects and transports sanitary wastewater originating in the County of Oakland only.

This petition is filed pursuant to the provisions of Chapter 20 of Act No. 40 of the Public Acts of Michigan of 1956, as amended.

It is understood and agreed that the entire cost of the drain project, including litigation costs and the amount of any judgment, arbitration award or settlement, to the extent such costs are payable by the Drainage District, is to be assessed against this petitioner and all other public corporations that benefit from the drain project and contribute to the conditions that make the drain project necessary.

The issuance of bonds to finance the drain project contemplated herein is contingent upon the Communities and the proposed drainage district entering into an agreement as provided by law setting forth the services and operations of the proposed drainage district and to provide for methods of addressing and apportioning future improvements to the proposed drainage district.

A certified copy of the resolution of the governing body of the City of Southfield authorizing execution of this petition is attached hereto.

**CITY OF SOUTHFIELD**

By: Kenson J. Siver

Mayor  
Kenson J. Siver

By: Sherikia L. Hawkins

Clerk  
Sherikia L. Hawkins

CITY OF SOUTHFIELD  
RESOLUTION OF SUPPORT

WHEREAS, the Water Resources Commissioner has submitted a Corrective Action Plan to the State of Michigan's Department of the Environment, Great Lakes, and Energy to comply with the Administrative Consent Order issued to the Evergreen-Farmington Sewage Disposal System; and

WHEREAS, the Corrective Action Plan includes outlet capacity projects estimated to cost between \$60-\$80 million of which Southfield's share would be 38.17% or up to \$30.54 million per the agreed upon cost allocation method; and

WHEREAS, a transition of the Evergreen-Farmington Sewage Disposal System to a Chapter 20 Drain provides full transparency through open public meetings with formal minutes as documentation; and

WHEREAS, as a Chapter 20 drainage district, the Water Resources Commissioner commits the community outreach process of quarterly technical meetings will not change.

**NOW, THEREFORE, BE IT RESOLVED:** That the City Council hereby consents to the assessment of its share of the entire cost of the drain project against the City.

**BE IT FURTHER RESOLVED:** That the City agrees that it will pay its share of the costs incurred by the Oakland County Water Resources Commissioner or by the Drainage District in the event the drain or any portion thereof, for any reason, is not constructed.

**BE IT FURTHER RESOLVED:** The City acknowledges that the County of Oakland, its Board of Commissioners, and the Oakland County Water Resources Commissioner will not contribute to the cost of the drain project or its operation and maintenance except to the extent that the County of Oakland may be assessed for the cost of the drain project or may agree to contribute to the cost of the drain project in accordance with the provisions of Chapter 20 of Act No. 40 of the Public Acts of Michigan of 1956, as amended.

**BE IT FURTHER RESOLVED:** That all prior resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution are hereby rescinded.

**NOW BE IT FINALLY RESOLVED:** That the Mayor and City Clerk are hereby authorized to sign the petition for and on behalf of the City of Southfield to transition the Evergreen-Farmington Sewage Disposal System to a Drainage District under Chapter 20 of the Michigan Drain Code after review and approval as to form by the City Attorney's Office and to execute an agreement related to the project contemplated by said petition and to file the same with the Water Resources Commissioner of the County of Oakland; said petition in form substantially as follows:



## **PETITION**

### **TO THE DRAINAGE BOARD FOR THE HEREINAFTER MENTIONED OAKLAND COUNTY, MICHIGAN DRAIN PROJECT**

The undersigned public corporation hereby petitions for the location, establishment and construction of an intra-county drain project consisting of the existing Evergreen-Farmington Sewage Disposal System and all improvements necessary to bring the Evergreen-Farmington Sewage Disposal System into compliance with Administrative Consent Order 04995 entered by the State of Michigan Department of the Environment, Great Lakes, and Energy on August 14, 2019, which improvements shall include, without limitation, one or more of the following:

1. The provision of additional outlet capacity for the Evergreen-Farmington Sewage Disposal System by purchasing said capacity from the Great Lakes Water Authority ("GLWA"), such purchase to enable GLWA to acquire and construct sewage disposal system improvements to remove downstream wet weather flow to allow for the additional outlet capacity for the Evergreen-Farmington Sewage Disposal System.
2. The acquisition and construction of improvements to the Walnut Lake Pump Station No. 1 to increase Evergreen Interceptor operating levels and the coordination of operations of facilities in the Evergreen-Farmington Sewage Disposal System.
3. Improvements at the 8 Mile SSO chamber, including but not limited to the acquisition, construction, and modification of piping, weirs, gates, and meters.
4. The acquisition and construction of other improvements to the Evergreen-Farmington Sewage Disposal System, including sewage retention tanks and associated pumps, piping, and connections.
5. Construction of storage facilities within the geographical limits of the Evergreen-Farmington Sewage Disposal System, including, without limitation, a multi-million gallon sewage retention tank on Eight Mile Road in the City of Southfield.

Said drain project is necessary for the public health, and will serve property located entirely within the limits of the City of Auburn Hills, the Village of Beverly Hills, the Village of Bingham Farms, the City of Birmingham, the Charter Township of Bloomfield, the City of Bloomfield Hills, the City of Farmington, the City of Farmington Hills, the Village of Franklin, the City of Keego Harbor, the City of Lathrup Village, the City of Orchard Lake Village, the City of Southfield, the City of Troy and the Charter Township of West Bloomfield (collectively, the "Communities"). The Evergreen-Farmington Sewage Disposal System collects and transports sanitary wastewater originating in the County of Oakland only.

This petition is filed pursuant to the provisions of Chapter 20 of Act No. 40 of the Public Acts of Michigan of 1956, as amended.

It is understood and agreed that the entire cost of the drain project, including litigation costs and the amount of any judgment, arbitration award or settlement, to the extent such costs are payable by the Drainage District, is to be assessed against this petitioner and all other public

corporations that benefit from the drain project and contribute to the conditions that make the drain project necessary.

The issuance of bonds to finance the drain project contemplated herein is contingent upon the Communities and the proposed drainage district entering into an agreement as provided by law setting forth the services and operations of the proposed drainage district and to provide for methods of addressing and apportioning future improvements to the proposed drainage district.

A certified copy of the resolution of the governing body of the City of Southfield authorizing execution of this petition is attached hereto.

**CITY OF SOUTHFIELD**

By: \_\_\_\_\_


Mayor

By: \_\_\_\_\_

Clerk

I, Sherikia L. Hawkins, the duly elected and qualified City Clerk of the City of Southfield, County of Oakland, State of Michigan, do hereby certify that the foregoing resolution was adopted by the Southfield City Council at their Regular Council Meeting held on Monday, July 20, 2020, in the Council Chambers of the Municipal Building, 26000 Evergreen Road, Southfield, Michigan.

Dated: July 23, 2020

  
Sherikia L. Hawkins, City Clerk

## **CHARTER TOWNSHIP OF WEST BLOOMFIELD**

### **RESOLUTION TO PETITION THE DRAINAGE BOARD TO CONVERT THE EVERGREEN-FARMINGTON SEWAGE DISPOSAL SYSTEM TO A CHAPTER 20 DRAIN AND INITIATE THE CORRECTIVE ACTION PLAN SUBMITTED TO THE STATE OF MICHIGAN BY THE WATER RESOURCES COMMISSIONER**

At a regular meeting of the Township Board for the Charter Township of West Bloomfield, Oakland County, Michigan, held on July 13, 2020, at Township Hall, 4550 Walnut Lake Road, West Bloomfield, Michigan, the following preamble and resolution were offered by Trustee Rosenberg, and supported by Trustee Manna:

**WHEREAS**, pursuant to the Final Order of Abatement drafted in June 2020 between the State of Michigan Department of the Environment, Great Lakes and Energy (EGLE), Water Resources Division, and the Charter Township of West Bloomfield, each of the fifteen (15) Oakland County municipalities served by the Evergreen-Farmington Sewage Disposal System (EFSDS), including the Charter Township of West Bloomfield, are required to adopt a Corrective Action Plan; and

**WHEREAS**, the Fourth Amended Administrative Consent Order, at the request of the Charter Township of West Bloomfield amends Paragraph 3.1 through 3.5 of the Third Amended Administrative Consent Order to reflect that, even though the Township has completed the actions outlined in the Corrective Action Plan submitted to EGLE in December 2007, the Township remains unable to meet certain capacity requirements and, therefore, additional corrective actions are needed to meet the remedial design standard as defined in EGLE's SSO Policy Guidance dated December 27, 2002; and

**WHEREAS**, pursuant to the Fourth Amended Administrative Consent Order, the Township was required to submit to EGLE an approvable long-term corrective action plan to meet the flow capacity agreement between the parties; and

**WHEREAS**, the proposed long-term corrective action plan proposes to convert the EFSDS from an Act 342 system to a Chapter 20 drain; and

**WHEREAS**, for the Water Resource Commission to start the process of such conversion, at least two (2) member communities must petition the Drainage Board; and

**WHEREAS**, the conversion of the EFSDS to a Chapter 20 drain provides substantial benefit to the Township including:

- Governance composed of three (3) elected officials from the County Board of Commissioner's Office and the Water Resource Commissioner;

- Improved transparency and communication through regularly scheduled open public meetings, formal minutes, and formal approval of invoices and contracts by the Drain Board; and
- The ability to conduct public hearings to solicit comments from the communities and the public for all future bond financed projects; and

**WHEREAS**, the Fourth Amendment to the Administrative Consent Order requests that the Township Board authorize the Township Supervisor to sign same.

**THEREFORE, IT IS RESOLVED** that the Township Supervisor is hereby authorized to sign the Fourth Amended Administrative Consent Order attached hereto as Exhibit A; and

**IT IS FURTHER RESOLVED** that the Township hereby adopts the long-term corrective action plan submitted by the Township to the Water Resources Commission on June 23, 2020.

**IT IS FURTHER RESOLVED** that the Township Supervisor and Township Clerk shall sign the Petition attached hereto as Exhibit B which Petition will permit the Water Resources Commission to begin the process of converting the EFSDS to a Chapter 20 Drain and to execute an agreement related to the project contemplated by said Petition and to file the same with the Water Resources Commissioner of the County of Oakland.

**IT IS FURTHER RESOLVED** that the Township Board hereby consents to the assessment of its share of the entire cost of the drain project against the Township.

**IT IS FURTHER RESOLVED** that the Township agrees that it will pay its share of the costs incurred by the Oakland County Water Resources Commissioner or by the Drainage District in the event the drain or any portion thereof, for any reason, is not constructed.

**IT IS FURTHER RESOLVED** that the Township acknowledges that the County of Oakland, its Board of Commissioners, and the Oakland County Water Resources Commissioner will not contribute to the cost of the drain project or its operation and maintenance except to the extent that the County of Oakland may be assessed for the cost of the drain project or may agree to contribute to the cost of the drain project in accordance with the provisions of Chapter 20 of Act No. 40 of the Public Acts of Michigan of 1956, as amended.

**IT IS FURTHER RESOLVED** that all prior resolutions and parts of resolutions insofar as they conflict with the provisions of this resolution are hereby rescinded.

**AYES:** Binder, Kaplan, Manna, Rosenberg, Swimmer, Warshay, Weingarden

**NAYES:** None

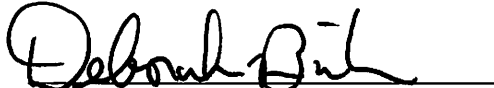
**ABSTENTIONS:** None

RESOLUTION DECLARED ADOPTED THIS 13<sup>th</sup> DAY OF JULY 2020.

**CERTIFICATION**

STATE OF MICHIGAN     )  
                                  ) SS.  
COUNTY OF OAKLAND    )

I, Deborah Binder, the duly qualified Clerk of the Charter Township of West Bloomfield, Oakland County, Michigan, do hereby certify that the foregoing is a true and complete copy of a Resolution adopted by the Township Board of the Charter Township of West Bloomfield on the 13<sup>th</sup> day of July 2020; the original is on file in the Office of the Clerk.

  
DEBORAH BINDER  
TOWNSHIP CLERK

# EXHIBIT A

**STATE OF MICHIGAN  
DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY  
WATER RESOURCES DIVISION**

In the matter of:

ACO-05477

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

Charter Township of West Bloomfield  
2400 Haggerty Road  
West Bloomfield, Michigan 48323

Final Order of Abatement No. 2100  
AFO-2100A  
ACO-SW05-008  
AFO-SW09-005,  
October 25, 2011, Extension Letter

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**FOURTH AMENDED ADMINISTRATIVE CONSENT ORDER**

The Charter Township of West Bloomfield (Township) owns and operates a separate sanitary sewer system that discharges its sanitary wastewater to the Evergreen-Farmington Sewage Disposal System (EFSDS), which is tributary to the Great Lakes Water Authority (GLWA) and Wastewater Resource Recovery Facility (WRRF). In response to the revised Administrative Consent Order (Consent Order), number ACO-04995, with the County of Oakland, on August 14, 2019, the Township requested an amendment to the Third Amended Consent Order, number AFO-SW09-005, entered on March 24, 2009, between the Township and the Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division (WRD). AFO-SW09-005, all prior amendments, and all subsequent extension approvals regarding the Township's sanitary sewer system, upon the consent of the parties, and by the authority granted to EGLE by the Natural Resources and Environmental Protection Act, MCL 324.101 *et seq.*, are hereby amended by this Fourth Amended Consent Order as follows:

**I. STIPULATIONS**

The Township and EGLE stipulate as follows:

- 1.1 Executive Order 2019-06, signed by Governor Gretchen Whitmer on February 20, 2019, renamed the Department of Environmental Quality (DEQ) as EGLE effective April 22, 2019. This Consent Order uses EGLE to refer to DEQ prior to April 22, 2019.

- 1.2 The Township negotiated a Town Outlet Capacity (TOC) with the Oakland County Office of the Water Resources Commissioner (County). The TOC is the maximum amount of sanitary wastewater that the Township can discharge to the EFSDS and is 27.41 cubic feet per second. The TOC was first referenced in Final Order of Abatement Number 2100, that was signed in 1988 by the Township, the Michigan Water Resources Commission, and the Michigan Department of Natural Resources.
- 1.3 The Township and the County anticipate replacing the TOC at some time in the future as will be defined in a future contract between the Township and County. If a new contract is entered to replace the TOC, the Township shall submit a copy of the new contract to EGLE. Upon written notification by EGLE to the Township, the new sewage flow capacity, as detailed in the new contract, will be incorporated into this Consent Order by reference and considered the new Flow Capacity. The sewage Flow Capacity in the potential new contract will replace the TOC in this Consent Order and shall be referred to as the "Flow Capacity Agreement" in this Consent Order.
- 1.4 The intent of this Fourth Amended Consent Order is to provide the framework for the Township to comply with the Flow Capacity Agreement and to design and maintain its sanitary sewer system to prevent sanitary sewage overflows (SSOs) resulting from conditions less than the remedial design standard (RDS) as defined in EGLE's 2002 SSO Policy and EGLE's SSO Clarification Statement dated October 23, 2003, that are both described in Paragraph 3.4, below.

### **III. COMPLIANCE PROGRAM**

Paragraphs 3.1 through 3.5 of AFO-SW09-005 and any prior amended Consent Orders are hereby replaced with the following paragraphs:

- 3.1 The Township completed an evaluation of the feasibility of sanitary sewer projects to remove excess wastewater flow from its sanitary sewer system, and on December 27, 2007, the Township submitted a short-term corrective action plan and schedule to EGLE for approval. The short-term corrective action plan included a detailed description of projects and a schedule for each project to: (a) submit the basis



of design; (b) submit complete plans and specifications; (c) start construction; and (d) complete construction. The Township implemented the approved short-term corrective action plan.

- 3.2 As part of the approved short-term corrective action plan, the Township collected and evaluated flow monitoring data for a period of 12 consecutive months, from January 1, 2012, to December 31, 2012, after it completed the projects specified in the approved plan. Based on its evaluation of the flow monitoring data, the Township determined it cannot meet the TOC and has contributed to downstream SSOs due to capacity issues during events less than the remedial design standard defined in Paragraph 3.4, below. EGLE and the Township have therefore determined that additional corrective actions for the Township's sanitary sewer system are needed.
- 3.3. The Township shall submit an approvable **long-term corrective action plan** to EGLE for review and approval no later than **April 30, 2020**, to meet the Flow Capacity Agreement and meet all applicable state and federal law regulating SSOs using as guidance the remedial design standard defined in Paragraph 3.4, below.
- 3.4. The remedial design standard as defined in EGLE's SSO Policy Guidance dated December 27, 2002, is a 25-year, 24-hour storm using growth conditions and normal soil moisture. This remedial design standard will remain the goal of all projects described in this Fourth Amended Consent Order. A ten-year, one-hour storm under dormant and growth conditions will be considered a comparable alternative remedial design standard, as defined in EGLE's SSO Clarification Statement dated October 23, 2003. All SSO events that result from events that exceed this "comparable alternative remedial design standard" will be considered for enforcement discretion. To document the appropriateness of the use of the "comparable alternative remedial design standard," the County submitted a complete report on February 26, 2007. The report contained hydrologic and hydraulic modeling analyses comparing the system response (at the EFSDS outlet and using representative system locations agreed upon by EGLE and the Township) to both the ten-year, one-hour storm under dormant and growth conditions, and the 25-year, 24-hour storm under growth conditions and normal soil moisture.

- 3.5 On or before **September 1, 2022**, the Township shall submit to EGLE for review and approval, a work plan with implementation schedule for conducting a year-long Project Performance Certification Program (PPC Program) to certify that the **long-term corrective action plan** meets the Flow Capacity Agreement and all applicable state and federal laws regulating SSOs using as guidance the remedial design standard defined in Paragraph 3.4. The Township shall commence and complete the PPC Program work plan in accordance with the EGLE-approved implementation schedule.
- 3.6 The approved **long-term corrective action plan** and the schedules therein shall be incorporated into this Fourth Amended Consent Order by reference and are enforceable hereunder. The Township shall complete all EGLE-approved actions in the long-term corrective action plan by no later than **March 1, 2023**.
- 3.7 On or before **March 31, 2024**, the Township shall submit to EGLE for review and approval the PPC Program report. If the Township does not certify that the **long-term corrective action plan** meets the Flow Capacity Agreement and all applicable state and federal laws regulating SSOs using as guidance the remedial design standard defined in Paragraph 3.4, then the Township shall submit an approvable Corrective Action Program work plan to EGLE on or before **July 31, 2024**.
- 3.8 Progress reports shall be submitted to EGLE beginning upon the entry date of this Fourth Amended Consent Order on an annual basis and shall be due on or before January 15 of each calendar year. The submittal of progress reports shall cease upon termination of this order.
- 3.9 The Township shall submit all reports, work plans, specifications, schedules, or any other writing required by this Section to the WRD, Warren District Office Supervisor, at EGLE, 27700 Donald Court, Warren, Michigan 48092-2793. The cover letter with each submittal shall identify the specific paragraph and requirement of this Fourth Amended Consent Order that the submittal is intended to satisfy.

## **XII. GENERAL PROVISIONS**

All other terms and conditions of AFO-SW09-005 and any previous or subsequent amendments or extensions shall remain in full force and effect and are not altered by this Fourth Amended Consent Order, except as specifically prescribed in this document. The effective date of this Fourth Amended Consent Order shall be the date upon which the Director of the WRD signs this document.

**Signatories**

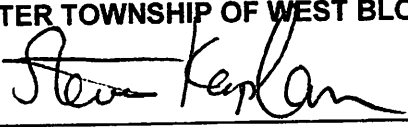
The undersigned CERTIFY they are fully authorized by the party they represent to enter into this Amended Consent Order to comply by consent and to EXECUTE and LEGALLY BIND that party to it.

**DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY**

\_\_\_\_\_  
Teresa Seidel, Director  
Water Resources Division

\_\_\_\_\_  
Date

**CHARTER TOWNSHIP OF WEST BLOOMFIELD**

  
\_\_\_\_\_  
By: Steven Kaplan, Township Supervisor

7-14-2020  
Date

**APPROVED AS TO FORM:**

\_\_\_\_\_  
By: Neil D. Gordon, Assistant Attorney General  
For: S. Peter Manning, Chief  
Environment, Natural Resources, and Agriculture Division  
Michigan Department of Attorney General

\_\_\_\_\_  
Date

# **EXHIBIT B**

## **PETITION**

### **TO THE DRAINAGE BOARD FOR THE HEREINAFTER MENTIONED OAKLAND COUNTY, MICHIGAN DRAIN PROJECT**

The Charter Township of West Bloomfield hereby petitions for the location, establishment and construction of an intra-county drain project consisting of the existing Evergreen-Farmington Sewage Disposal System (EFSDS) and all improvements necessary to bring the EFSDS into compliance with Administrative Consent Order 04995 entered by the State of Michigan Department of the Environment, Great Lakes, and Energy (EGLE) on August 14, 2019, which improvements shall include, without limitation, one or more of the following:

1. The provision of additional outlet capacity for the Evergreen-Farmington Sewage Disposal System (EFSDS) by purchasing said capacity from the Great Lakes Water Authority ("GLWA"), which purchase shall enable the GLWA to acquire and construct sewage disposal system improvements to remove downstream wet weather flow to allow for the additional outlet capacity for the EFSDS.
2. The acquisition and construction of improvements to the Walnut Lake Pump Station No. 1 to increase Evergreen Interceptor operating levels and the coordination of operations of facilities in the EFSDS.
3. Improvements at the 8 Mile SSO chamber including, but not limited to the acquisition, construction, and modification of piping, weirs, gates, and meters.
4. The acquisition and construction of other improvements to the EFSDS including sewage retention tanks and associated pumps, piping, and connections.
5. Construction of storage facilities within the geographical limits of the Evergreen-Farmington Sewage Disposal System, including, without limitation, a multi-million gallon sewage retention tank on Eight Mile Road in the City of Southfield.

Said drain project is necessary for the public health, safety and welfare, and will serve property located entirely within the limits of the City of Auburn Hills, the Village of Beverly Hills, the Village of Bingham Farms, the City of Birmingham, the Charter Township of Bloomfield, the City of Bloomfield Hills, the City of Farmington, the City of Farmington Hills, the Village of Franklin, the City of Keego Harbor, the City of Lathrup Village, the City of Orchard Lake Village, the City of Southfield, the City of Troy and the Charter Township of West Bloomfield (collectively, the "Communities"). The EFSDS collects and transports sanitary wastewater originating in the County of Oakland only.

This petition is filed pursuant to the provisions of Chapter 20 of Act No. 40 of the Public Acts of Michigan of 1956, as amended.


It is understood and agreed that the entire cost of the drain project, including litigation costs and the amount of any judgment, arbitration award or settlement, to the extent such costs are

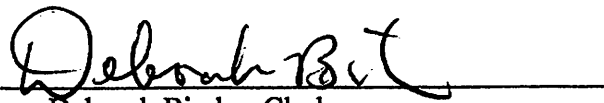
payable by the drainage district, is to be assessed against this petitioner and all other public corporations that benefit from the drain project and contribute to the conditions that make the drain project necessary.

The issuance of bonds to finance the drain project contemplated herein is contingent upon the Communities and the proposed drainage district entering into an agreement as provided by law setting forth the services and operations of the proposed drainage district and to provide for methods of addressing and apportioning future improvements to the proposed drainage district.

A certified copy of the resolution of the Township Board of the Charter Township of West Bloomfield authorizing execution of this petition is attached hereto.

**CHARTER TOWNSHIP OF WEST  
BLOOMFIELD**

By:   
Stephen Kaplan, Supervisor

By:   
Deborah Binder, Clerk

2. That this Drainage Board determines that the sanitary wastewater to be carried by the proposed drain project originates in the County of Oakland only; and that the drain project is necessary for the public health.

3. That this Drainage Board tentatively determines that the petitions are sufficient; that the drain project proposed therein is practical; and that the following public corporations be assessed to pay the cost of the project to wit:

City of Auburn Hills  
Village of Beverly Hills  
Village of Bingham Farms  
City of Birmingham  
Charter Township of Bloomfield  
City of Bloomfield Hills  
City of Farmington  
City of Farmington Hills  
Village of Franklin  
City of Keego Harbor  
City of Lathrup Village  
City of Orchard Lake Village  
City of Southfield  
City of Troy  
Charter Township of West Bloomfield

4. That the name “[EVERGREEN-FARMINGTON SANITARY DRAIN]” is hereby given to the drain project and the name “[EVERGREEN-FARMINGTON SANITARY DRAIN DRAINAGE DISTRICT]” is hereby given to the drainage district therefor.

5. That this Drainage District shall meet on the \_\_\_\_ day of \_\_\_\_\_, 2020, at \_\_\_\_:\_\_\_\_.m., prevailing Eastern Time via GoToMeeting for the purpose of hearing any objections to the aforementioned drain project, to the petitions therefor, and to the matter of assessing the cost of the drain project to the public corporations above named.

6. That a notice of said meeting shall be prepared which notice shall contain the information required by the Drain Code and shall be published twice in The Oakland Press, a



newspaper published in the County of Oakland, State of Michigan, the first publication to be not less than twenty (20) days prior to the time of the hearing.

7. That the notice shall be sent by registered or certified mail to the Clerk of the City of Auburn Hills, the Village of Beverly Hills, the Village of Bingham Farms, the City of Birmingham, the Charter Township of Bloomfield, the City of Bloomfield Hills, the City of Farmington, the City of Farmington Hills, the Village of Franklin, the City of Keego Harbor, the City of Lathrup Village, the City of Orchard Lake Village, the City of Southfield, the City of Troy and the Charter Township of West Bloomfield, which mailing shall be made not less than twenty (20) days prior to the time of the hearing.

ADOPTED: Yeas - \_\_\_\_\_

Nays - \_\_\_\_\_

It was moved by \_\_\_\_\_ and supported by \_\_\_\_\_ that the following be appointed to act in the following capacities in connection with the proposed drain project:

Fishbeck, as engineers.

Municipal Financial Consultants, Inc., as registered municipal advisor.

Dickinson Wright PLLC, Troy, Michigan, as bond counsel.

ADOPTED: Yeas - \_\_\_\_\_

Nays - \_\_\_\_\_

Upon motion by \_\_\_\_\_, seconded by \_\_\_\_\_ and unanimously adopted, the meeting was adjourned.

\_\_\_\_\_  
Chairperson

August 25, 2020

STATE OF MICHIGAN     )  
                                      )SS  
COUNTY OF OAKLAND    )

I hereby certify that the foregoing is a true and complete copy of the minutes of a meeting of the Drainage Board for the [Evergreen-Farmington Drain], Oakland County, Michigan, held on August 25, 2020, and that the minutes are on file in the offices of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that notice of the meeting was given in accordance with the Open Meetings Act and the Governor's Executive Order No. 2020-154, as the same may be amended, supplemented, extended or replaced from time to time.

\_\_\_\_\_  
Chairperson of the Drainage Board

Dated: \_\_\_\_\_, 2020