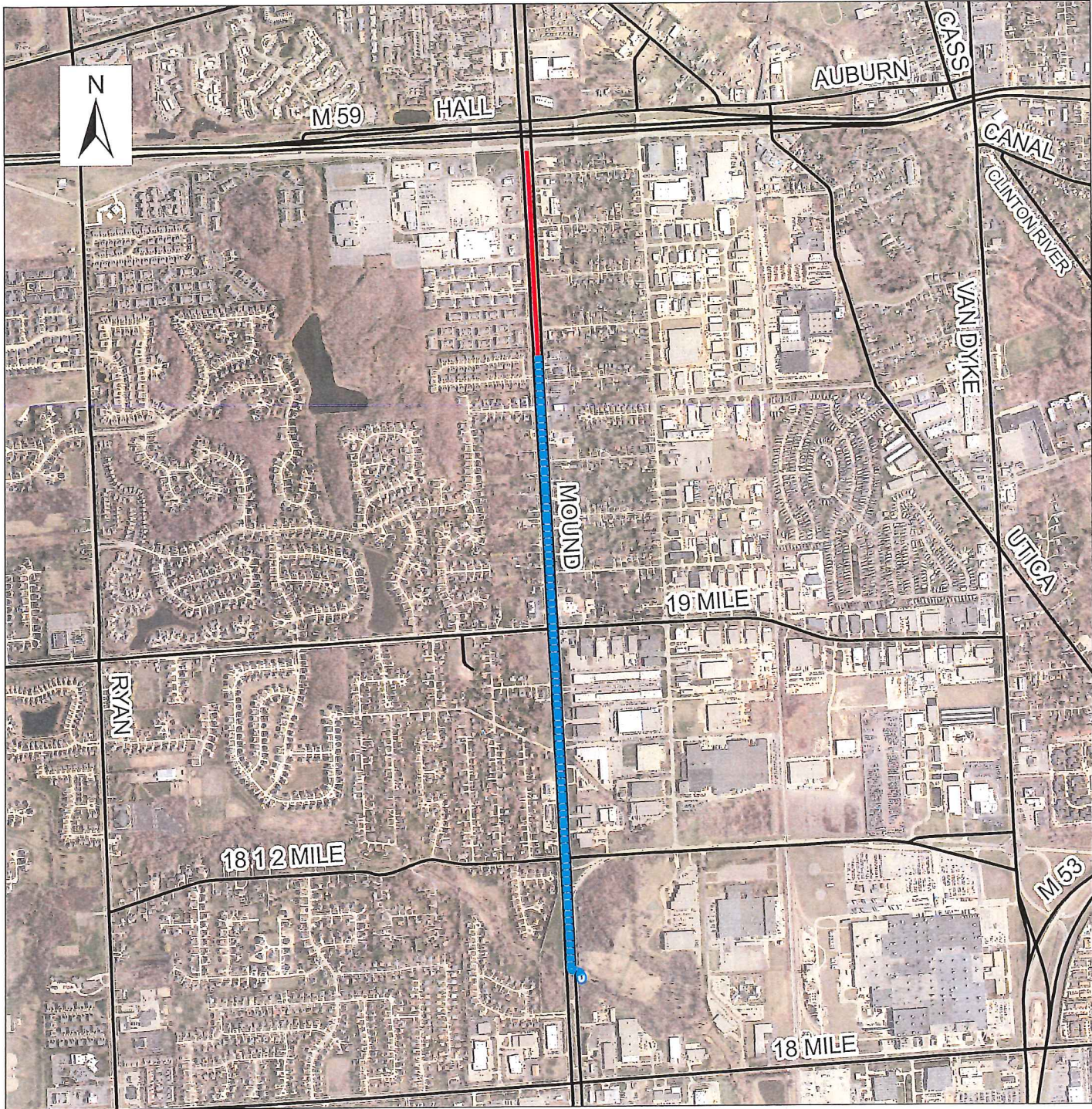


GREEN DRAIN ENCLOSURE
INTRA-COUNTY DRAINAGE BOARD
JULY 8, 2019
11:00 A.M.
AGENDA

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for July 8, 2019	
3. Approval of Minutes for February 12, 2018	3
4. Public Participation	
5. Resolution Requesting Transfer of Chapter 20 Drain Funds Pursuant to MCL 280.499 for replacement of the Hildebrandt Pump Station – Stephen Downing	5
Motion: To approve the transfer of \$155,000 of surplus Green Drain Enclosure funds to the Hildebrandt Drain to facilitate the Hildebrandt Pump Station replacement as requested by the City of Sterling Heights	
6. Financial Report – Bruce Manning	12
7. Adjourn	

GREEN DRAIN ENCLOSURE

STERLING HEIGHTS



Legend

- | | |
|-------------------------|---------------------|
| Enclosed Gravity | Open Channel |
| < 60" Dia | Ditch |
| ≥ 60" Dia | Pond |
| Culvert | |



0 875 1,750 3,500 Feet

Drain Length (Feet/Miles):
9777.45 / 1.85

An adjourned meeting of the Intra-County Drainage Board for the **GREEN DRAIN ENCLOSURE** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham, Clinton Township, Michigan, on February 12, 2018, at 11:09 A.M.

PRESENT: Candice Miller, Chair
Robert Mijac, Member

ABSENT: Bryan Santo, Member

ALSO PRESENT: Robert Leonetti, Marvin Sauger, Macomb County Board of Commissioners; Brian Baker, Chief Deputy, Vincent Astorino, Operations & Flow Manager, Evans Bantios, P.E., Construction and Maintenance Manager, Jeff Bednar, Environmental Engineer, Dan Heaton, Public Relations Manager, Bruce Manning, Financial Manager, Tom Stockel, Construction Engineer, Madison Tanghe, Senior Secretary, Macomb County Public Works

The meeting was called to order by the Chair, Candice Miller. The agenda was approved as presented.

Minutes of the meeting of September 11, 2017 were presented. A motion was made by Mr. Mijac, supported by Ms. Miller to approve the minutes as presented.

Adopted: YEAS: 2
NAYS: 0

The meeting was opened to public participation, then closed, there being no comments from the public.

Mr. Bednar updated the board on the drain inspection. A 2x3 foot hole has been found in the drain which apparently was bulkheaded off with a piece of plywood. Investigation is underway to evaluate what is behind the plywood and to fix it properly.

A motion was made by Mr. Mijac, supported by Ms. Miller to receive and file the project update presented.

Adopted: YEAS: 2
NAYS: 0

The Chair presented the invoices totaling \$6,338.00 to the board for review and approval.

A motion was made by Mr. Mijac, supported by Ms. Miller to approve the invoices as presented.

Adopted: YEAS: 2
NAYS: 0

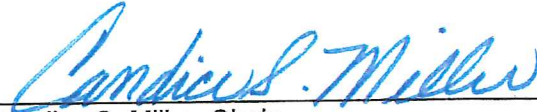
A motion to receive and file the financial report given by Mr. Manning was made by Mr. Mijac, supported by Ms. Miller.

Adopted: YEAS: 2
NAYS: 0

There being no further business, it was moved by Mr. Mijac, supported by Ms. Miller, that the meeting of the Green Drain Enclosure Board be adjourned.

Adopted: YEAS: 2
NAYS: 0

The meeting was adjourned at 11:14 a.m.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

STATE OF MICHIGAN
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taking by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on February 12, 2018 the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.



Candice S. Miller, Chair
Macomb County Public Works Commissioner

DATED: 2/13/18



Candice S. Miller

Public Works Commissioner
Macomb County

To: Candice Miller, Macomb County Public Works Commissioner

CC: Brian Baker, Chief Deputy

From: Stephen Downing, Construction & Maintenance Manager

Date: July 3rd, 2019

Subject: Hildebrandt Pump Station Replacement Recommendation

The Macomb County Public Works Office (MCPWO) has been diligently working to assess drainage assets in effort to catalog existing conditions and prioritize maintenance repairs and rehabilitation options. In addition, MCPWO reviews drainage account fund balances to identify opportunities to transfer funds from drain accounts with assets with no or low priority maintenance needs. The Hildebrandt Pump Station was assessed by Spalding DeDecker in 2018 at which time it was determined to be at the end of its useful life. The recommendation to construct a new pump station in lieu of rehabilitating the existing pump station is supported by the Engineer's opinion of probable construction cost comparison which compared the cost to rehabilitate the existing station with construction of a new station. The cost difference was found to be negligible, mostly due to the cost for by-pass pumping during rehabilitation of the new station. The design documents are at 100% at this time, upon approval MCPWO will publish an RFB on MITN.

The City of Sterling Heights has adopted a resolution to transfer funds from five Chapter 20 Drain accounts into the Hildebrandt drain account to facilitate the new construction. The executed resolution is attached to this memo for reference. The table below summarizes the funds to be transferred upon approval by the respective Drain Boards:

Drainage District	Sterling Heights Apportionment	Amount Transferred to Hildebrandt Drain
Cady Drain Enclosure Drainage District	96.72%	\$115,000.00
Diener Drain Enclosure No. 2 Drain Drainage District	91.88171%	\$70,000.00
Green Drain Enclosure Drainage District	100%	\$155,000.00
Hawken Drain Drainage District	100%	\$270,000.00
Kleino Relief Drain Enclosure Drainage District	94.73461%	\$150,000.00
Total		\$760,000.000

OFFICE LOCATION: 21777 Dunham Road, Clinton Township, Michigan 48036 • Phone: 586-469-5325 • Fax: 586-469-5933

MAILING ADDRESS: P. O. Box 806, Mt. Clemens, Michigan 48046-0806

ENGINEERING • Phone: 586-469-5910 • Fax: 586-469-7693 ♦ **SOIL EROSION** • Phone: 586-469-5327 • Fax 586-307-8264

The recommendation for the board is that this Board approve the transfer of \$155,000.00 of the required \$760,000.00 to allow the MCPWO to implement the construction of the new Hildebrandt Pump Station to replace the existing station.

Attachments: Sterling Heights Adopted Resolution
Engineer's Opinion of Probable Construction Costs

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RESOLUTION REQUESTING TRANSFER OF CHAPTER 20 DRAIN FUNDS PURSUANT TO MCL 280.499 FOR REPLACEMENT OF THE HILDEBRANDT PUMP STATION

A. The Hildebrandt Drain Drainage District (“HDDD”) is located exclusively in the City of Sterling Heights, Macomb County, Michigan. The HDDD is a county drain established under Chapter 4 of the Drain Code of 1956, subject to the jurisdiction of the Macomb County Public Works Commissioner.

B. The Hildebrandt Drain Pumping Station (the “Pumping Station”) within the HDDDD is an integral part of the storm water drainage system serving the University Estates Subdivision No. 1 and University Estates Subdivision No. 2, in Section 12 of the City of Sterling Heights.

C. The Macomb County Public Works Office has inspected the Pumping Station and concluded that replacement of the Pump Station is required. The estimated cost of the replacement of the Pump Station is \$760,000.00.

D. The HDDD does not have sufficient funds to pay for the replacement of the Pump Station. It will be necessary for the HDDD to levy a special assessment against property owners in the HDDD to finance the project unless the City of Sterling Heights adopts this resolution and the requested allocation is approved by the respective Chapter 20 drainage boards.

E. Under MCL 280.499, a Chapter 20 drainage board may apportion the balance of surplus construction funds to separate accounts for the benefit of public corporations against which the cost of the drain is assessed. Such funds may be used, at the request of the public corporation, to alleviate drainage problems in that public corporation.

F. Upon receipt of a request from the City of Sterling Heights, the drainage boards for the following Chapter 20 drainage districts (the “Chapter 20 Drainage Districts”) will vote on whether to approve the placement of the following surplus construction funds on account for the benefit of Sterling Heights, to be used for the replacement of the Pumping Station:

DRAINAGE DISTRICT	STERLING HEIGHTS APPORTIONMENT %	AMOUNT TRANSFERRED TO STERLING HEIGHTS ACCOUNT
Cady Drain Enclosure Drainage District	96.72%	\$115,000
Diener Drain Enclosure No. 2 Drain Drainage District	91.88171%	\$70,000
Green Drain Enclosure Drainage District	100%	\$155,000
Hawken Drain Drainage District	100%	\$270,000
Kleino Relief Drain Enclosure Drainage District	94.73461%	\$150,000
TOTAL:		\$760,000

NOW, THEREFORE,

IT IS RESOLVED by the City Council for the City of Sterling Heights that:

1. The replacement of the Pumping Station constitutes work that would alleviate storm water drainage problems in the City of Sterling Heights and is necessary for the public health, safety, and welfare of the residents of the City of Sterling Heights.

2. Pursuant to MCL 280.499, the City of Sterling Heights hereby requests that the drainage boards for the Chapter 20 Drainage Districts apportion the balances set forth in the “Amount Transferred to Sterling Heights Account” column of Recital F for the benefit of Sterling

Heights and that the Macomb County Public Works Commissioner utilize said funds for the replacement of the Pumping Station.

AYES: Michael C. Taylor, Liz Sierawski, Deanna Koski, Michael V. Radtke Jr., Maria G. Schmidt, Henry Yanez, Barbara A. Ziarko.

NAYS: None .

ABSENT: None

Dated this 18th day of June, 2019. Resolution declared and adopted.

CERTIFICATION

I hereby certify that the foregoing is a true and correct copy of the Resolution made and adopted by the City Council of the City of Sterling Heights at a regular meeting held on June 18, 2019.



Melanie D. Ryska

Melanie D. Ryska, City Clerk

OPINION OF PROBABLE CONSTRUCTION COST

For: New Wet Well - Base Bid (100% Review)

PROJECT NAME: Hildebrandt Drain: Pump Station Rehabilitation
CLIENT NAME: Macomb County Public Works
PREPARED BY: Scott Isenberg

PROJECT NO: MN18003
DATE: 1-Jul-19

NO.	Ref. Spec.	ITEM	QUANTITY	UNIT	UNIT	TOTAL
					PRICE	AMOUNT
1	2.02	Bonds, Insurance and Mobilization (10% Max)	1	LS	\$ 52,800.00	\$ 52,800.00
2	2.02	Pre-Construction Audio-Visual	1	LS	\$ 3,000.00	\$ 3,000.00
3	30.12	Soil Erosion Control Measures	1	LS	\$ 5,000.00	\$ 5,000.00
4	30.13	Site Grading, Complete	1	LS	\$ 10,000.00	\$ 10,000.00
5	30.14	Aggregate, 8 inch, 22A	185	SY	\$ 12.00	\$ 2,220.00
6	30.15	Dewatering	1	LS	\$ 10,000.00	\$ 10,000.00
7	M205	Excavation, Earth	600	CY	\$ 40.00	\$ 24,000.00
8	30.16	Sewer, End, Sect, 42 Inch, Remove	1	EA	\$ 1,500.00	\$ 1,500.00
9	30.17	Sewer, CMP, 42 Inch, Remove	35	LF	\$ 40.00	\$ 1,400.00
10	M402	Sewer C76 CL IV, 42 Inch	35	LF	\$ 130.00	\$ 4,550.00
11	30.18	Culv End Sect, Conc, 42 inch, Complete	1	EA	\$ 3,000.00	\$ 3,000.00
12	30.19	Dr, Structure, 144 inch Dia (20'-25' Depth), Modified	1	EA	\$ 50,000.00	\$ 50,000.00
13	30.20	Dr, Structure, 48 inch Dia (16'-20' Depth), With Cover	1	EA	\$ 4,500.00	\$ 4,500.00
14	30.21	Force Main, DI, CL54, 16 Inch	38	LF	\$ 120.00	\$ 4,560.00
15	M402	Sewer C76 CL IV, 36 INCH	43	LF	\$ 115.00	\$ 4,945.00
16	30.19	Culv End Sect, Conc, 36 inch, Complete	2	EA	\$ 2,500.00	\$ 5,000.00
17	30.22	Submersible Pump, Complete	2	EA	\$ 143,000.00	\$ 286,000.00
18	30.23	Electrical Upgrades	1	LS	\$ 5,000.00	\$ 5,000.00
19	30.24	Control Panel, Modified	1	LS	\$ 25,000.00	\$ 25,000.00
20	M402	Sewer C76 CL IV, 12 Inch (16'-20' Depth)	26	LF	\$ 50.00	\$ 1,300.00
21	30.25	Sewer, C76 CL IV, 12 Inch, Remove	8	LF	\$ 17.00	\$ 136.00
22	30.26	Sewer DI CL54, 16 Inch, Remove	34	LF	\$ 21.00	\$ 714.00
23	30.27	Sewer, C76 CL IV, 30 Inch, Remove	31	LF	\$ 35.00	\$ 1,085.00
24	30.28	Dr, Structure, 120 inch Dia, (20'-25' Depth), Abandon	1	EA	\$ 10,000.00	\$ 10,000.00
25	30.29	Inlet Structure, Remove	1	LS	\$ 5,000.00	\$ 5,000.00
26	30.30	Control Panel and Oil Housing, Remove	1	LS	\$ 1,000.00	\$ 1,000.00
27	30.31	Electrical Panel, Remove	1	LS	\$ 1,000.00	\$ 1,000.00
28	30.32	Spillway, Conc, Remove	17	SY	\$ 40.00	\$ 680.00
29	M204	Fence, Chain Link, 72 Inch, Remove	600	LF	\$ 10.00	\$ 6,000.00
30	M808	Fence, Chain Link, 72 Inch	600	LF	\$ 50.00	\$ 30,000.00
31	30.34	Fence Sliding Gate, 12 foot, Chain Link, 72 Inch	1	EA	\$ 7,500.00	\$ 7,500.00
32	M403	Structure Cover Adjust	1	EA	\$ 1,000.00	\$ 1,000.00
33	M403	Structure Cover Adjust, Add Depth	1.25	FT	\$ 2,000.00	\$ 2,500.00
34	30.37	Restoration	1	LS	\$ 10,000.00	\$ 10,000.00
					Construction Subtotal:	\$ 580,390.00
					Contingency: 10%	\$ 58,039.00
					Construction Total:	\$ 638,429.00
					Contract Administration: 6.00%	\$ 38,400.00
					Material Testing: 2.0%	\$ 12,750.00
					Total Estimated Project Cost:	\$ 689,579.00

OPINION OF PROBABLE CONSTRUCTION COST

ALTERNATE A BID – BLACK VINYL COATED FENCE AND SLIDING GATE IN-LIEU-OF GALVINZED FENCE AND GATE:

Item No.	Ref. Spec.	Item Description	Qty	Unit	Unit Price	Total Price
30A	30.33	Fence, Black Vinyl Coated Chain Link, 72 Inch (Alternate A)	600	LF	\$ 75.00	\$ 45,000.00
31A	30.35	Fence Sliding Gate, 12 Foot, Black Vinyl Coated Chain Link, 72 Inch (Alternate A)	1	EA	\$ 11,500.00	\$ 11,500.00
					ALTERNATE TOTAL:	\$ 56,500.00

ALTERNATE B BID – ADD CHANTICLEER PEAR TREE TO BASE BID:

Item No.	Ref. Spec.	Item Description	Qty	Unit	Unit Price	Total Price
35	30.36	Chanticleer Pear Tree (Alternate B)	20	EA	\$ 575.00	\$ 11,500.00
					ALTERNATE TOTAL:	\$ 11,500.00

In providing opinions of probable construction cost, the Client understands that the Consultant has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that the Consultant's opinions of probable construction costs are made on the basis of the Consultant's professional judgement and experience. The Consultant makes no warranty, express or implied, that the bids or the negotiated cost of the Work will not vary from the Consultant's opinion of probable construction cost.



UNIVERSITY

10-12-478-003

ASHGROVE

YTD Trial Balance

Fund: Green Drain Enclosure

As of Fiscal Period: Oct 1, 2018-June 30, 2019

	O&M Balance 9/30/2018	O&M	Total 6/30/2019
Cash - Operating	157,005	2,155	159,160
Accounts Receivable			0
Assets			0
Liabilities			0
Revenues		2,155	2,155
Expenditures			0
Encumbrance			0
Equity	157,005		159,160

NOTES