

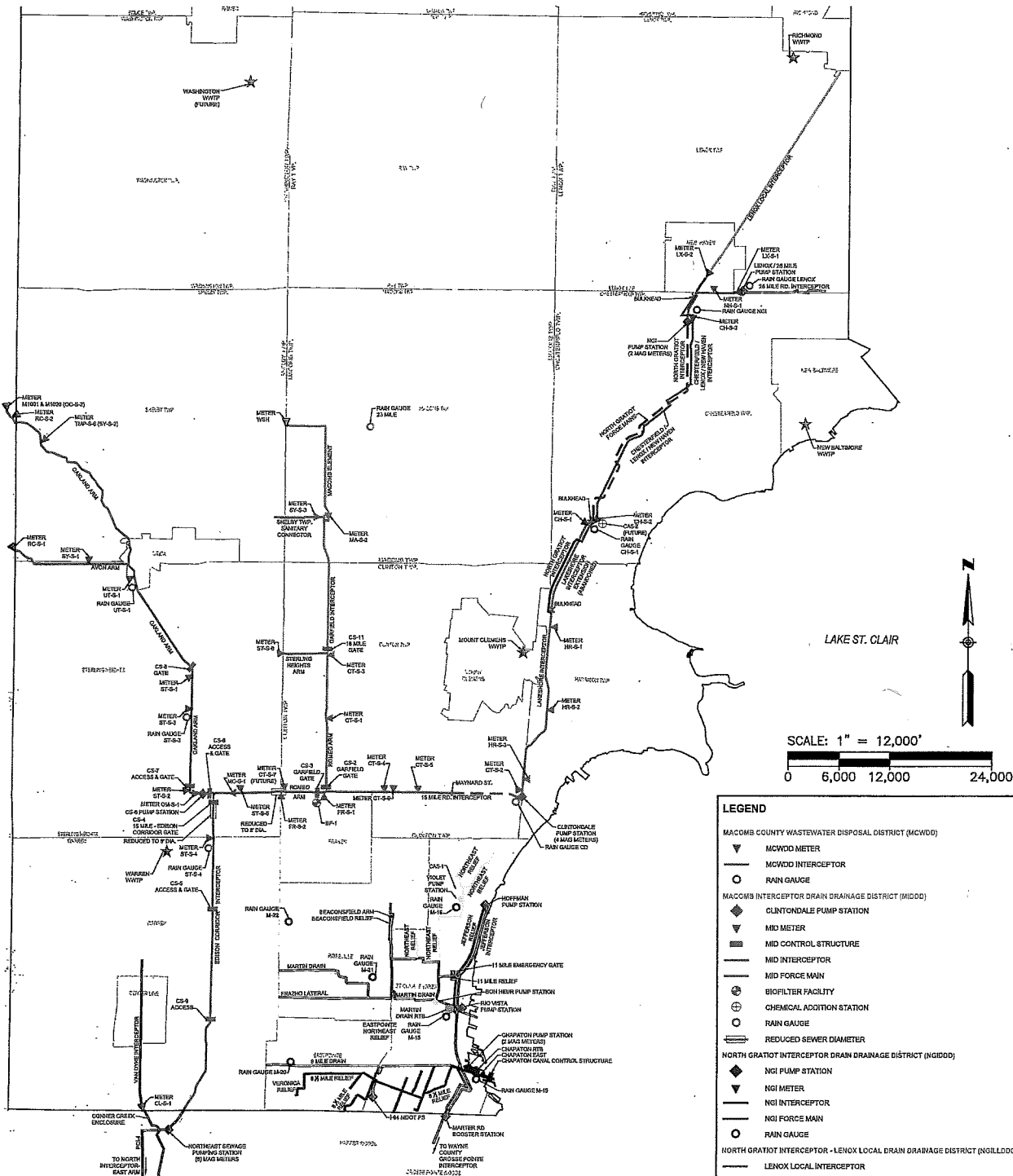
Miller
Santo
Klinefelt

EIGHT AND ONE-HALF MILE RELIEF DRAIN
INTRA-COUNTY DRAINAGE BOARD
APRIL 10, 2017
10:30 A.M.
AGENDA

Page No.

1. Call of meeting to order and roll call
2. Approval of Agenda for April 10, 2017
3. Approval of Minutes for March 13, 2017 1
4. Public participation
5. Consideration for approval of invoices (see attached) 3
6. Financial Report – Bruce Manning 5
7. Adjourn

MACOMB COUNTY WASTEWATER SYSTEMS



Candice S. Miller
 MACOMB COUNTY PUBLIC WORKS COMMISSIONER



- LEGEND**
- MACOMB COUNTY WASTEWATER DISPOSAL DISTRICT (MCWDD)
 - ▼ MCWDD METER
 - MCWDD INTERCEPTOR
 - RAIN GAUGE
 - MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (MIDD)
 - ◆ CLINTONDALE PUMP STATION
 - ◇ MID METER
 - ▣ MID CONTROL STRUCTURE
 - MID INTERCEPTOR
 - MID FORCE MAIN
 - ⊕ BIOFILTER FACILITY
 - ⊕ CHEMICAL ADDITION STATION
 - RAIN GAUGE
 - ▬ REDUCED SEWER DIAMETER
 - NORTH GRATIOT INTERCEPTOR DRAIN DRAINAGE DISTRICT (NGIDD)
 - ◆ NGI PUMP STATION
 - ◇ NGI METER
 - NGI INTERCEPTOR
 - NGI FORCE MAIN
 - RAIN GAUGE
 - NORTH GRATIOT INTERCEPTOR - LENOX LOCAL DRAIN DRAINAGE DISTRICT (NGILLDOD)
 - LENOX LOCAL INTERCEPTOR
 - OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (OMIDD)
 - ◆ CS-6 PUMP STATION
 - ◇ OMID METER
 - ▣ OMID CONTROL STRUCTURE
 - OMID INTERCEPTOR
 - ▬ REDUCED SEWER DIAMETER
 - 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT
 - ◆ CHAPATON WEST PUMP STATION
 - ⊕ CHAPATON RETENTION TREATMENT BASIN
 - ▣ CHAPATON CANAL CONTROL GATE
 - 1/2 MILE INTERCEPTOR
 - RAIN GAUGE
 - SEMCWDS PUMP STATION
 - ⊕ SEMCWDS PUMP STATION
 - ⊕ CHEMICAL ADDITION STATION
 - SEMCWDS INTERCEPTOR
 - MARTIN SANITARY DIVERSION DRAINAGE DISTRICT (MSDD)
 - ⊕ MARTIN DRAIN RETENTION TREATMENT BASIN
 - OTHER SYSTEMS
 - ◆ PUMP STATION
 - ▼ METER
 - ★ WWP
 - INTERCEPTOR

UPDATED: JANUARY 2017

An adjourned meeting of the Intra-County Drainage Board for the **EIGHT AND ONE-HALF MILE RELIEF DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham, Clinton Township, Michigan, on March 13, 2017, at 12:00 P.M.

PRESENT: Candice S. Miller, Chair
Robert Smith, Member
Veronica Klinefelt, Member

ALSO PRESENT: Brent Avery, Brian Baker, Chief Deputy, Evans Bantios, Engineer II, Karen Czernel, Deputy Public Works Commissioner, Barbara Delecke, Administrative Services, Anthony Forlini, Operations Manager, Keith Graboske, Chief Engineer, Bruce Manning, Acting Financial Manager, Thomas Stockel, Construction Engineer

The meeting was called to order by the Chair, Candice Miller. The meeting was opened to public participation, then closed, there being no comments from the public.

Minutes of the meeting of February 13, 2017 were presented and approved on a motion by Mr. Smith, supported by Ms. Klinefelt and unanimously carried.

The Chair presented the attached invoices totaling \$179,957.79 to the board for review and approval.

Motion was made by Mr. Smith, supported by Ms. Klinefelt to approve the attached invoices as presented.

Ayes: Smith, Klinefelt, Miller
Nays: None

Motion approved.

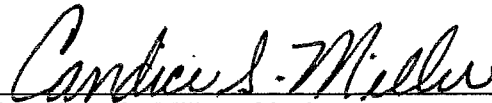
The meeting was adjourned on a motion by Mr. Smith, seconded by Ms. Klinefelt, and unanimously approved.



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 taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on March 13, 2017, 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: 3/14/17

8629.bd

8 1/2 Mile Relief Drain - 4/10/17

Funding Source	Apportionment	Manager	Vendor	Amount	Invoice Detail	Project Summary	Project Balance
8 1/2 Mile Relief	Chapter 20 State of MI - 16.04% Macomb Co. - 2.25% Dept. of Roads - 2.25% Eastpointe - 54.33% St. Clair Shores - 25.13%	Astorino	Anderson, Ecksten & Westrick, Inc.	\$ 780.50	Invoice #0113445 Engineering Services - 2/6/17 - 3/5/17	Sewer Structure Contract Administration	
		Astorino	Consumers Energy	\$ 658.84	Monthly Gas - 12/24/16 - 1/24/17	Chapaton East	
		Astorino	Consumers Energy	\$ 904.52	Monthly Gas - 1/25/17 - 2/23/17	Chapaton East	
		Astorino	Consumers Energy	\$ 875.18	Monthly Gas - January	Chapaton West Building	
		Astorino	Consumers Energy	\$ 713.38	Monthly Gas - February	Chapaton West Building	
		Astorino	Cummins Bridgeway	\$ 938.11	Invoice #006-35757 - 3/3/17	Annual generator maintenance Chapaton RTB	
		Astorino	Cummins Bridgeway	\$ 715.34	Invoice #006-35758 - 3/3/17	Annual load bank test on generator Chapaton RTB	
		Astorino	DTE Energy	\$ 2,354.76	Monthly Electrical - 1/10/17 2/7/17	Stormwater Pumps - Chapaton RTB	
		Astorino	DTE Energy	\$ 9,114.10	Monthly Electrical - 2/8/17-3/8/17	Stormwater Pumps - Chapaton RTB	
	SAW 1173-01	Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 33,407.50	Invoice #365517 - 2/28/17 Engineering Services - ending 2/24/17	Project Mgmt, Criticality and CIP Report, Record Drawings, Green Infrastructure, O&M Manuals, Discharge Protocol	\$294,827.04 - Engineering Plus 10% Match Requirement
		Astorino	Jones Chemicals, Inc.	\$ 6,796.95	Invoice #714954 -3/6/17	Martin RTB - 7,979 gallons Hypochlorite Solution used in disinfection process	
	SAW 1173-01	Astorino	Martin Control Services	\$ 3,500.00	Invoice #10007	Chapaton RTB Monitoring - February 2017	
		Astorino	METCO Consulting Engineers	\$ 10,611.58	Invoice #1615-05 - 1/2/17 - 1/29/17	Chapaton CSO Control Facility Operations Management	
		Astorino	METCO Consulting Engineers	\$ 6,531.58	Invoice #1615-06 - 1/30/17 - 3/5/17	Chapaton CSO Control Facility Operations Management	
		Astorino	Motor City Electric Technologies	\$ 12,700.00	Invoice #34125 (Portion) - 1/17/17	Engineering, hardware, software and installation services for Keyscan Security System upgrade at Chapaton RTB	

8 1/2 Mile Relief Drain - 4/10/17

<u>Funding Source</u>	<u>Apportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Project Balance</u>
8 1/2 Mile Relief (Continued)		Astorino	TestAmerica	\$ 552.00	Invoice #19009696 - 3/2/17	Lab analysis of water as required by NPDES Permit	
	SCADA	Astorino	Motor City Electric Technologies, Inc.	\$ 677.65	Invoice #90447 - 5/4/16	Run cables in Old County Building due to damage caused by fire	
		Astorino	Motor City Electric Technologies, Inc.	\$ 60,328.39	Invoice #34006 - 10/31/16	SCADA Upgrade	
		Astorino	Motor City Electric Technologies	\$ 521.35	Invoice #90830 - 1/31/17	Installed and configured replacement thin client for Chapaton control room - SCADA	
Total				\$ 152,681.73			

Income Statement
8.5 Mile Relief
As of March 31, 2017

	9-30-2016	10-1-16 to 3-31-17
	Total Fund	O&M*
Revenues		2,231,466.33
Expenditures		790,200.89
Equity**	2,884,401.32	

NOTES

Reserve as of Sept 30, 2017 600,000.00

Required SRF repair & replacement reserve balance 9/30/17 1,296,075.00

* Includes following Projects:

Sewer Rehab(SRF 5579-01)	Revenue	42,589.00
	Expenditures	37,902.05
	Net	<u>4,686.95</u>
Remaining balance =		<u>30,606.00</u>

SAW Grant(1173-01)	Revenue	176,181.03
	Expenditures	235,083.17
	Net	<u>(58,902.14)</u>
Remaining balance =		<u>361,191.00</u>

Major projects not yet completed in 2017

RTB Blower design
 1st collection of 2 for pumping screen improvements
 3 quarters of personnel from county
 9 Mile flow meter
 SCADA wonderware upgrade

** Broken out as follows:

Engineering carryover balance at 9/30/2016	190,000.00
Repair and Maintenance carryover at 9/30/2016	105,000.00
Equipment carryover balance at 9/30/2016	45,800.00
Required SRF repair & replacement reserve balance 9/30/16	1,036,860.00
Emergency Reserve	600,000.00
Due from SEMCWWDS included in revenue but not collected	550,000.00



PROGRESS REPORT

TO: Ms. Candice Miller – Macomb County Public Works Commissioner
Mr. Vincent Astorino – Office of the Macomb County Public Works Commissioner (OMCPWC)

FROM: Erin H. Szczegielniak, PE

DATE: April 3, 2017

PROJECT NO.: 130620

RE: 8 1/2 Mile Relief Drain Drainage District
Stormwater, Asset Management, and Wastewater (SAW)
Asset Management (AM) – Bi-Weekly Progress Report
March 20 – March 31, 2017

Following is a summary of services completed during the past two weeks and the anticipated tasks for the next two weeks:

Items accomplished during the reporting period:

1. Green Infrastructure Study
 - a. Finalized draft report and submitted to OMCPWC as well as the Cities of Eastpointe and St. Clair Shores for review.
2. 3D Diagram and Reference Drawings
 - a. Finished review and consolidation of reference drawings.
 - b. Held meeting with OMCPWC staff to review draft reference drawings.
3. Discharge Protocol
 - a. Continued meter data analysis.
 - b. Continued work to confirm pump equation and compare it to meter data.
 - c. Continued work on weir equation for overflow occurrence.
 - d. Held meeting with OMCPWC staff to review findings to date and verify operations.
4. Operation and Maintenance (O&M) Manual
 - a. Finished reviewing O&M Manual.
 - b. Held meeting with OMCPWC staff to review comments.
5. Final Report
 - a. Continued work on final report.

Anticipated tasks for the upcoming report period:

1. Asset Management Database
 - a. Work with METCO to place record drawings on OMCPWC server and hyperlink to NEXGEN.
2. Green Infrastructure
 - a. Finalize report based on comments.



3. 3D Diagram and Reference Drawings
 - a. Pick up final comments from OMCPWC Staff
 - b. Revise and finalize reference drawings based on meeting and staff feedback.
 - c. Schedule meeting with OMCPWC staff to present 3D model.
4. Preventative Maintenance Program
 - a. Re-schedule meeting with OMCPWC staff to introduce NEXGEN, the Chapaton asset hierarchy, and how to use the preventative maintenance forms and daily inspection forms.
5. Discharge Protocol
 - a. Request meter and supervisory control and data acquisition (SCADA) data for March 30th rain event.
 - b. Continue work on analyzing data.
 - c. Continue work on weir equation.
6. O&M Manual
 - a. Finalize O&M Manual based on meeting and staff feedback.
7. Final Report
 - a. Finalize draft report and submit for internal review.

Needed Information/Actions from Macomb County/Chapaton/METCO:

1. Review 9 Mile Emergency Bypass structural inspection report and provide comments.
2. Continue forwarding metering data and SCADA data on a regular basis for Discharge Protocol Analysis.
3. Move facility record drawings to OMCPWC server.

nac

By email

cc: Mr. Brian Baker – OMCPWC
Mr. Pete Trombley – OMCPWC
Ms. Maria E. Sedki, PE – FTCH