

CHARTER TOWNSHIP OF WATERFORD
5200 CIVIC CENTER DRIVE
WATERFORD, MICHIGAN 48329

FEBRUARY 24, 2020
6:00 PM
-AGENDA-

1. Approve Agenda

2. Announcements

2.I. Tuesday Teens

Middle and high school students are welcome to join us every other Tuesday to hang out with friends and to meet new ones on February 25th, from 3:30 p.m. - 5:00 p.m. in the Community Room. We'll provide games, activities, craft materials, and light refreshments for you to enjoy. Or, just come and work on homework or socialize with other kids your age.

Documents:

[LIBRARY - TUESDAY TEENS.JPG](#)

2.II. Enhanced Evening Storytime

Enhanced Evening Storytime will be held Tuesdays and Thursdays, 6:30 p.m. Join us for this pilot program created with a grant from the Oakland County Great Start Collaborative. We will be meeting two evenings a week through the winter and spring months. Storytimes last 35-45 minutes and include stories and hands-on activities. Children are welcome to wear jammies and bring blankies and stuffed toys. No registration required

2.III. Election Workers

Would you like to earn \$175.00 for one day? If yes, please sign up to be an Election Worker. The pay starts at \$175.00. You need to be a registered voter in the State of Michigan and take a training class prior to the election. You could take a vacation day from your regular job, and earn some extra money. There may be a few openings left. If you are interested please contact the Clerk's Office on 248-674-6266 or email elections@waterfordmi.gov.

Documents:

[ELECTION WORKER FLYER TO WORK POLLS.PDF](#)

2.IV. Absentee Ballots

If you requested an Absent Voter Ballot, you should have received a blue and white envelope in the mail. The State of Michigan has changed the color of the envelope to blue and white, so do not mistake it for junk mail. Please complete your ballot and return it to the Clerk's Office as soon as possible. It must be returned before 8:00 p.m. on March 10, 2020 for it to be counted. Feel free to drop it in the drop box located in the parking lot by the Police Department. Contact the Clerk's Office on 248-674-6266 or email elections@waterfordmi.gov for any concerns.

Documents:

[021020 ABSENTEE VOTER BALLOTS MAILED.PDF](#)

2.V. Single Residential Waste Hauler

As we near the March 30, 2020, launch date for Waterford's transition to a single designated residential waste hauler program, keep up with all the latest information by visiting the Waterford Township website at www.waterfordmi.gov/trash. On this page you can also subscribe to receive email and/or text updates as information becomes available. Veterans & seniors: please stop by Town Hall with identification showing age or veteran status for your 5% discount by March 3, 2020. Snowbirds: please call 248-674-6201 or visit www.waterfordmi.gov for information about service suspension options and delay of cart delivery.

2.VI. Monthly Paper Recycling

The monthly paper and cardboard recycling provided free of charge to Waterford residents and business owners moves to the SECOND Saturday of each month. The truck is here from 9:00 a.m. to 1:00 p.m. in the front parking lot of Town Hall near the pond. These dates and details are on the Township website calendar as well. This service will still be provided when the Single Source Trash Hauler takes effect on March 30th.

2.VII. Free Shredding Day

A free shredding day will be held on April 22, 2020, from 9:30 a.m. - 11:30 a.m., in the front parking lot of Town Hall for Waterford Residents. This event is sponsored by Treasurer Birch.

2.VIII. REAL ID-Compliant Driver's License And State ID

Starting Oct. 1, 2020, you'll need a REAL ID-compliant document to fly in the U.S. and enter some federal facilities per federal law. You can obtain a REAL ID-compliant driver's license or state ID from the Michigan Secretary of State's Office. Learn more at Michigan.gov/REALID. Schedule an appointment to get your REAL ID at any Secretary of State office and get in and out in less than 30 minutes. Michigan.gov/SOSAppointments.

Documents:

[REAL ID READY.PNG](#)

3. Consent Agenda

Board Members may remove items from the Consent Agenda for discussion purposes or for the purpose of voting in opposition. Public comment for items removed from the consent agenda may be received in the same manner immediately following the Consent Agenda.

3.I. February 10, 2020, Meeting Minutes

Documents:

[M02-10-20.PDF](#)

3.II. February 24, 2020, Bill Payment

Documents:

[FEB 24 BILL PAYMENT.PDF](#)

3.III. Receive The Clerk's Office December 2019 Preliminary Report

Documents:

[MONTHLY REPORTS- CLERKS - DEC 2019 \(PRELIMINARY\).PDF](#)

3.IV. Receive The Treasurer's Office January 2020 Report

Documents:

[TREASURER JAN 2020.PDF](#)

3.V. Appoint Sue Camilleri As ZBA Alternate Member

Documents:

[APPOINTMENT OF SUE CAMILLERI AS ZBA ALTERNATE.PDF](#)

3.VI. Reappoint Dave Kramer To Planning Commission

Documents:

[PLANNING COMMISSION - REAPPOINT DAVID KRAMER.PDF](#)

3.VII. Banner Permit - Census 2020

Documents:

[CENSUS BANNER PERMIT AGENDA ITEM REQ.PDF](#)

3.VIII. Banner Permit - Waterford Chamber Of Commerce

Documents:

[BANNER PERMIT - WATERFORD CHAMBER OF COMMERCE.PDF](#)

4. Board Liaison Reports (Verbal)

5. Open Business

- 5.I. Possible Adoption Of Ordinance 2020-Z-001; Rezoning Case No. 19-12-03; Rezone From R-M1, Low Density Multiple Family Residential To R-1A, Single Family Residential

Documents:

[REZONING CASE 3550 WATKINS LK RD.PDF](#)

6. New Business

- 6.I. Appointment Of DPW Engineer

Documents:

[APPOINTMENT OF DPW ENGINEER REQUEST 02182020.PDF](#)

- 6.II. Receive EGLE SAW Grant Final Report (WWAMP)

Documents:

[RECEIVE SAW GRANT FINAL REPORT REQUEST 02182020.PDF](#)

- 6.III. Sewer Rate Review

Documents:

[SEWER RATE REVIEW REV2 02152020.PDF](#)

6.IV. Resolution Approving Temporary Polling Location Relocation For The May 5, 2020 Election

Documents:

[MAY 5, 2020, TEMPORARY POLLING LOCATION RELOCATION.PDF](#)

6.V. Temporary Precinct Consolidation For The May 5, 2020, Election

Documents:

[TEMPORARY PCT CONSOLIDATION MAY 5TH.PDF](#)

6.VI. Public Comments Limited To Three (3) Minutes Per Topic

In conformance with the Americans with Disabilities Act, large-print agendas and minutes are available upon request. Barrier-free parking and access are also available at town hall. For the hearing impaired, there are four available headsets on a first come basis. Minutes are available upon request at the clerk's department, and on the Township's web site.

TUESDAY TEENS

For 6th – 12th graders

Join us in our Community Room to hang out with friends and make new ones. Drop in anytime – no registration required.

Every 2nd & 4th Tuesday (September – May)
3:30 pm – 5:00 pm

Tuesday Teens will not be held on December 24th, March 10th, and Tuesdays when the Waterford School District is closed for inclement weather.

Election Workers Needed March 10, 2020

*Consider working the 2020 Elections
in Waterford Township*

**The pay for an election worker starts at
\$175**

You must be registered to vote in Michigan

If you are interested, call Kim Markee

on 248-674-6266 or download

the Election Inspector Application at:

www.waterfordmi.gov/elections

Now is
the time
for all
good
men and
women
to come
to the
aid of
their
country!



Waterford Township Clerk's Office

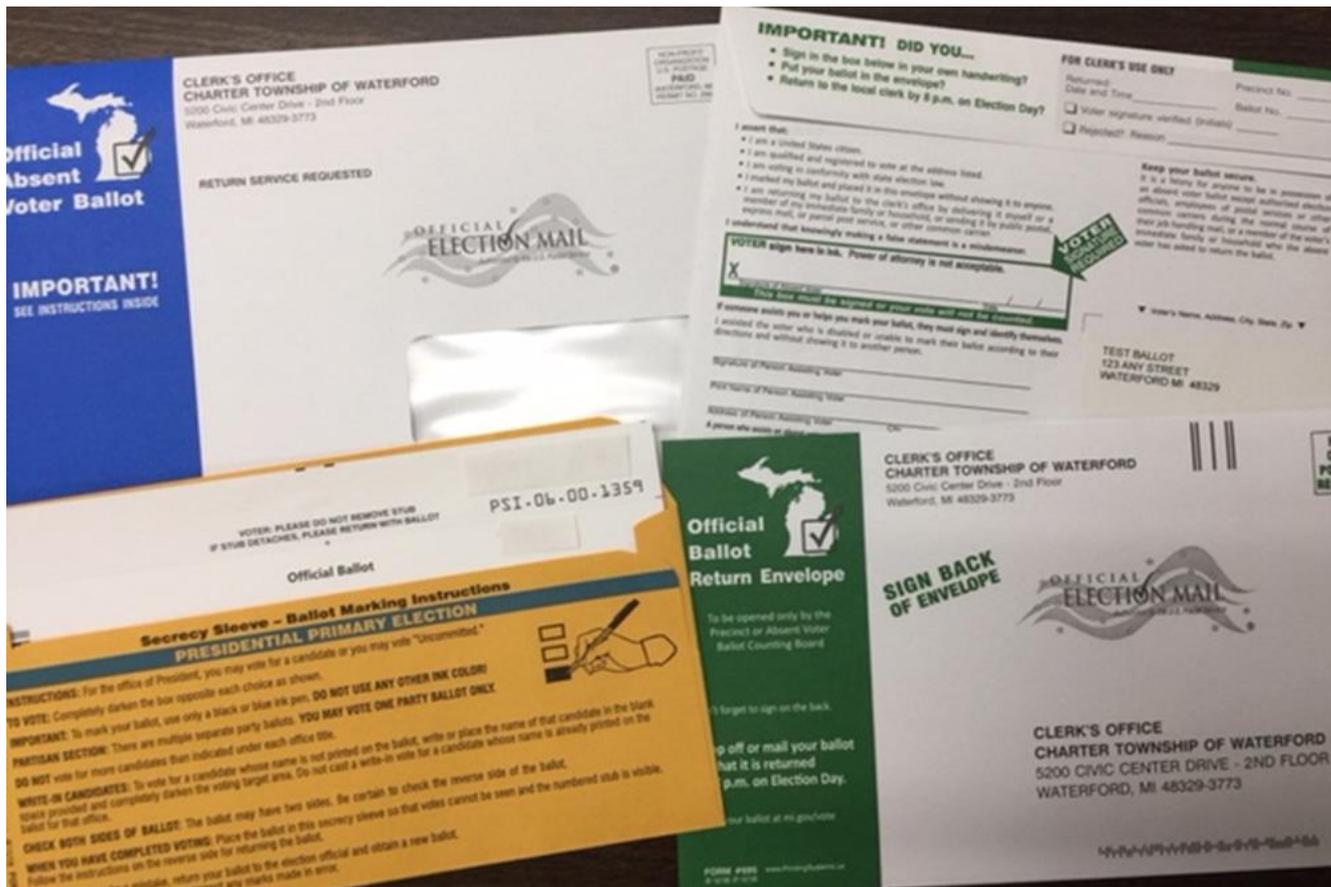
5200 Civic Center Dr
Waterford, MI 48329

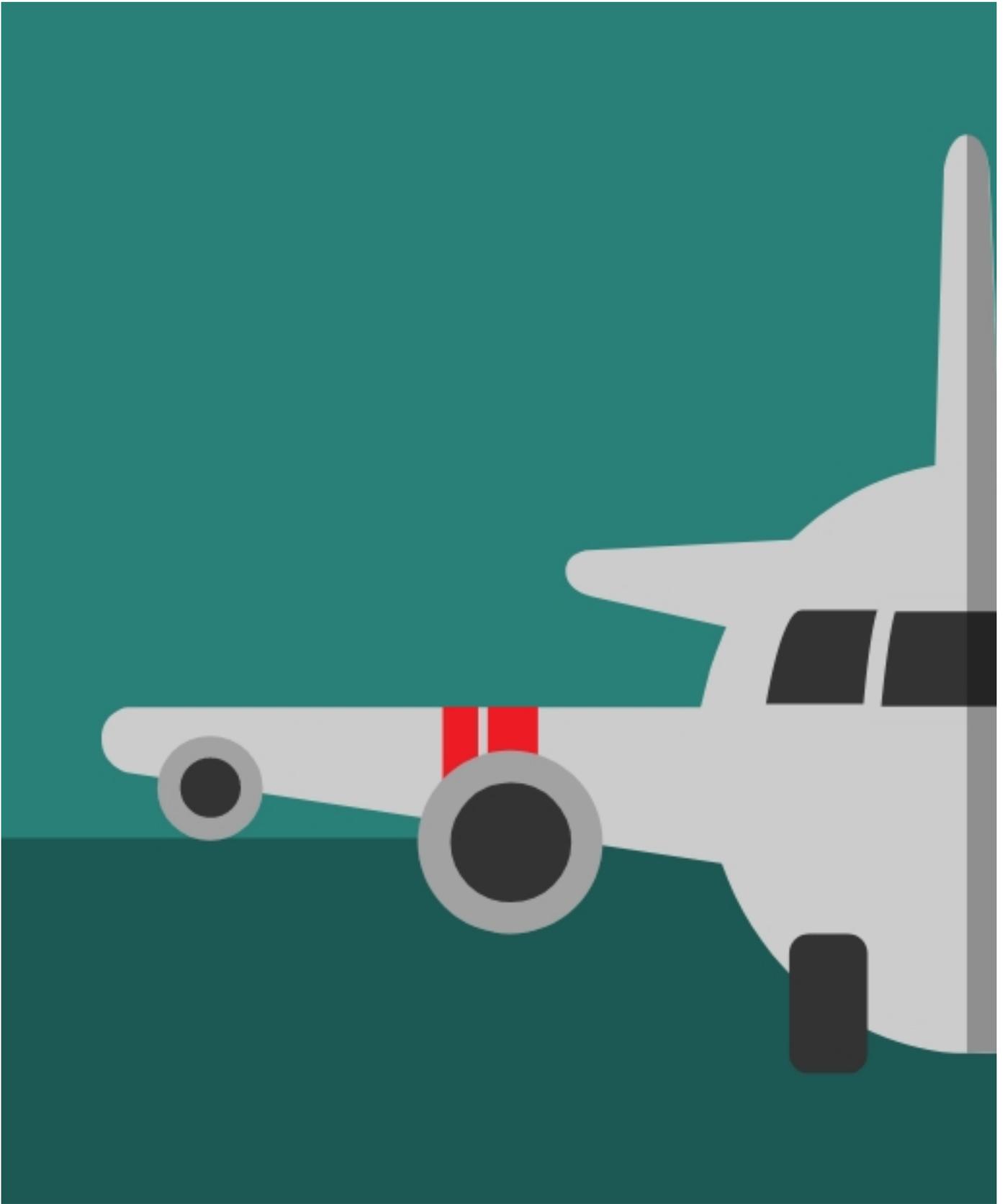
248-674-6266
kmarkee@waterfordmi.gov



Absentee Voter Ballots Have Mailed!

If you are an Absentee Voter, look for a BLUE and WHITE envelope sometime this week in your mail. Your ballot must be returned by 8:00 p.m. March 10th, 2020 for it to be counted. The sooner the better is always best. Feel free to use our drop box 24/7 (anytime) located by the Police Department.





BOARD MEMBERS PRESENT:

Gary Wall, Supervisor
Kim Markee, Clerk
Margaret Birch, Treasurer
Anthony Bartolotta, Trustee
Art Frasca, Trustee
Karen Joliat, Trustee
Steven Thomas, Trustee

OTHERS PRESENT:

Jean Polk
Shaun Damron
Cari Kocher
Kathy Patterson
Bruce Ellwanger
Joan Rogers
Connor Nelson
Paul Schoobeck
Kristen Schoobeck
Gilbert Sundquist
Roman Wasykewich
Grant Smith

Jen Thom
Marilyn Brennan
Jenna Felice
John Phebus
Crystal McCready
Steve McCready
Joyce Felice
Ray Felice
Vaughn Wagner
Ruth Wagner
Lori Holland
Al Gulda

Kathy Gulda
Peter Woolcox
Rachel Woolcox
Dane Andrews
Kerry Gross
Sharon Thomas
Derek Diederich
Frank Fisher
Mike Harris
Donna Wall

Supervisor Gary Wall called the meeting to order at 6:03 p.m. and asked for a moment of silence for the brave men and women who have served our Country and then lead the Pledge of Allegiance.

Roll call vote was taken. All Board members were present.

1. APPROVE AGENDA

1.1 February 10, 2020

Moved by Birch;

Seconded by Frasca, RESOLVED, to amend the February 10, 2020 agenda, by adding new business item 8.6A for Clerk to add up to two part-time employees due to the May 5, 2020, Special Election.

Motion carried unanimously.

Moved by Markee;

Seconded by Bartolotta, RESOLVED, to approve the February 10, 2020 agenda, as amended.

Motion carried unanimously.

2. ANNOUNCEMENTS

- 2.1 The monthly paper and cardboard recycling provided free of charge to Waterford residents and business owners moves to the SECOND Saturday of each month. The truck is here from 9:00 a.m. to 1:00 p.m. in the front parking lot of Town Hall near the pond. These dates and details are on the Township website calendar as well. This service will still be provided when the Single Source Trash Hauler takes effect on March 30th.

- 2.2 Middle and high school students are welcome to join us every other Tuesday to hang out with friends and to meet new ones on February 11th and February 25th, from 3:30 p.m. - 5:00 p.m. in the Community Room. We'll provide games, activities, craft materials, and light refreshments for you to enjoy. Or, just come and work on homework or socialize with other kids your age.
- 2.3 Taxes are due February 14th without penalty. If you miss this date, 4% interest will be added to the unpaid total. You can pay online by going to www.waterfordmi.gov/taxes. If you have any questions please call the Treasurer's Office on 248-674-6220.
- 2.4 Celebrate Mardi Gras a little early this year on Saturday (Samedi) with masks, crafts, fortunes, and snacks on Saturday, February 22nd, from 10:30 a.m. - 11:30 a.m. in the Storytime & Craft Room. Recommended for ages 5 & up. No registration required.
- 2.5 Join the Waterford Area Chamber of Commerce as they host the annual State of the Township breakfast February 19, 2020, 7:30 a.m. - 9:15 a.m. @ Overtyme Fireside Banquet Room. You'll enjoy a buffet style hot breakfast, and hear from Waterford Township Supervisor Gary Wall and Waterford School District Superintendent Scott Lindberg with updates on the state of the Township and School District. A can't-miss-event for the entire Waterford community! Tickets are \$20 each and available for advance purchase only from the Waterford Area Chamber of Commerce office or on their website at www.waterfordchamber.org
- 2.6 Gather the family and make plans to attend the 21st Annual Taste of Waterford on Thursday, February 20, 2020 from 6:00 p.m. - 9:00 p.m. at the Oakland Schools Conference Center in Waterford! This year's family-fun event for all ages takes us on a magical journey with the amazing Anthony Grupido. Admission includes all you can eat food from over 30 area restaurants who donate their food and staff to help support youth and families at this important community event. Participate in the pick-a-prize raffle and try your luck at the 50/50. This extremely popular community fun(d)raiser won't leave you hungry as you beat the winter blues with friends and neighbors. For tickets, contact the Waterford Coalition for Youth at 248-618-7424, or visit 2020wcfytaste.eventbrite.com.
- 2.7 As we near the March 30, 2020, launch date for Waterford's transition to a single designated residential waste hauler program, keep up with all the latest information by visiting the Waterford Township website at www.waterfordmi.gov/trash. On this page you can also subscribe to receive email and/or text updates as information becomes available. Veterans & seniors: please stop by Town Hall with identification showing age or veteran status for your 5% discount by March 3, 2020. Snowbirds: please call 248-674-6201 or visit www.waterfordmi.gov for information about service suspension options and delay of cart delivery.
- 2.8 Enhanced Evening Storytime will be held Tuesdays and Thursdays, 6:30 p.m. Join us for this pilot program created with a grant from the Oakland County Great Start Collaborative. We will be meeting two evenings a week through the winter and spring months. Storytimes last 35-45 minutes and include stories and hands-on activities. Children are welcome to wear jammies and bring blankies and stuffed toys. No registration required.
- 2.9 Absentee Ballots have been mailed. If you are an Absentee Voter, please look for them to arrive sometime this week. The State of Michigan has changed the look of the envelope. It will be a blue and white envelope, so do not mistake it for junk mail. Please complete your ballot as soon as possible and return it to the Clerk's Office before 8:00 p.m., March 10th. Feel free to drop it in the drop box located in the parking lot by the Police Department.
- 2.10 Thank you Sponsors and Donators to the Waterford Goodfellows: Waterford Eagles, Italian American Club, Tenutas, Impressive Printing & Promotions, Waterford Township Offices, Waterford Recreation Center, Waterford Dispatchers, Waterford Police, Waterford Fire Fighters, Waterford Schools, Waterford Rotarians / Optimist, Corvette Club, Genysis Credit Union, U-Haul, Waterford Kettering Music Dept., All Saints Cemetery, Waterford Historical Society, Riverstone Communities, O'Reilly's, Montessori Schools, Kroger's, K.A. Paul Landscape, Treasurers of to Morrow, Great Pontiac Host Committee, Our Lady of the Lakes Church
- 2.11 Census Day 2020 is observed nationwide on April 1, 2020. By this date, every home will receive an invitation to participate in the 2020 Census. The census provides critical data that lawmakers, business owners, teachers, and many others use to provide daily services, products, and support for you and your community. Every year, billions of dollars in federal funding go to hospitals, fire departments, schools, roads, and other resources based on census data. For more information visit 2020census.gov or call 800-923-8282.
- 2.12 Starting Oct. 1, 2020, you'll need a REAL ID-compliant document to fly in the U.S. and enter some federal facilities per federal law. You can obtain a REAL ID-compliant driver's license or state ID from the Michigan Secretary of State's Office. Learn more at Michigan.gov/REALID. Schedule an appointment to get your REAL ID at any Secretary of State office and get in and out in less than 30 minutes. Michigan.gov/SOSAppointments.

3. Awards & Presentations**3.1 Recognition of Promotion and Newly Hired Police Officers**

Chief Underwood thanked the family and community for supporting the Police Department.

Mr. William "Danny" Himmelspach was promoted to the rank of Sergeant

Office Michael Gross was appointed to the position of full-time Police Officer.

Officer Yin Chun Wang was appointed to the position of full-time Police Officer.

Officer Jude Sundquist was appointed to the position of full-time Police Officer.

Officer Michael Knapp was appointed to the position of full-time Police Officer

Officer Jennifer Mamola was appointed to the position of full-time Police Officer.

Officer Kyle Hulscher was appointed to the position of full-time Police Officer.

The Chief Underwood, Deputy Chief Kazyak and the Board of Trustees congratulated all of the recipients on their accomplishments.

4. Consent Agenda

Board Members may remove items from the Consent Agenda for discussion purposes or for the purpose of voting in opposition. Public comment for items removed from the consent agenda may be received in the same manner immediately following the Consent Agenda.

- 4.1 January 27, 2020, Meeting Minutes
- 4.2 February 10, 2020, Bill Payment
- 4.3 51st District Court 2019-2015 Caseload and Financial Trend Review
- 4.4 Receive the Department Of Public Work's November 2019 Report
- 4.5 Receive the Library's December 2019 Report
- 4.6 Nature Center Advisory Board Reappointments - Aubrey Golden and Murray Day
- 4.7 Appoint Roman Wasylkevych to Parks and Recreation Board
- 4.8 Appointment of Jerry Frericks as Zoning Board of Appeals Alternate
- 4.9 Banner Application - Waterford Chamber Of Commerce

Moved by Birch,

Seconded by Markee, RESOLVED, to approve Consent Agenda items 4.1 through 4.9. A roll call vote was taken.

Ayes: Wall, Markee, Birch, Bartolotta, Frasca, Joliat and Thomas

Nays: None

Absent: None

Motion carried unanimously.

Clerk Markee swore in Mr. Roman Wasylkevych to the Parks and Recreation Board.

5. Board Liaison Reports (Verbal)

Trustee Bartolotta, Planning Commission

Reviewed the January 28, 2020, Planning Commission Meeting items.

Treasurer Birch

The General and Police & Fire Pension have a general return of 6.75%. The General Pension Fund, at year-end, had a rate of return of 18.88% ending the year with \$66,519,051.

The Police and Fire Pension fund, at year end, had a rate of return of 21.42% ending the year with 99,781,898. The Retiree Healthcare Trust had a rate of return of 23.48% ending the year with \$23,137,061.

Clerk Markee

Teen Pizza & Pages Book Club, Saturday, February 22nd, from 1:00 p.-m. 2:00 p.m. Join us as we discuss books that we've read while we enjoy pizza for lunch. Copies of the books will be available to check out 1 month before each session. This month's title: All American Boys by Jason Reynolds.

Ask the Tech Guy, Saturday, February 22nd, 3 half-hour sessions are available at 2:00 p.m., 2:30 p.m. and 3:30 p.m. for Computer/technology help. One-on-one assistance with your own device or computer (bring it in with you). Our library computer technician will do his best to troubleshoot your problem, answer your questions, or advise you on what to do. Held in the Conference Room. Please make an appointment by calling or coming in to the adult desk. Registration required.

The Clerk's office received payment from Oakland Community College for the November 5, 2019, Election.

Clerk Markee testified at a Senate Committee meeting to allow help to Clerk's for Absentee Ballots and attended the State of the State with Senator Ruth Johnson.

Clerk Markee announced that absentee ballots have mailed and they advised that ballots must be returned by Tuesday, March 10, 2020, at 8:00 p.m.

Clerk Markee thanked Supervisor Wall for the beautiful handrails. Supervisor Wall acknowledged help from Ron Arnold, Facilities and Operations, and Zakk Robinson, Supervisor Wall's grandson.

6. Open business**6.1 Possible Adoption of Fire Prevention Code Ordinance Amendment; 2020-003**

**CHARTER TOWNSHIP OF WATERFORD
ORDINANCE NO. 2020-003**

FIRE PREVENTION CODE ORDINANCE AMENDMENT

An Ordinance to update the Township Fire Code from the 2009 to the 2015 International Fire Code with amendments and additions by amending Article II, Fire Prevention Code, in Chapter 7, Fire Prevention and Protection, of the Waterford Charter Township Code of Ordinances.

THE CHARTER TOWNSHIP OF WATERFORD ORDAINS:

Section 1 of Ordinance

Possible Adoption of Fire Prevention Code Ordinance Amendment; 2020-003 Continued.

Sections 7-027, 7-028, 7-029, and 7-030 in Article II, Fire Prevention Code, of Chapter 7, Fire Prevention and Protection, of the Waterford Charter Township Code are amended to read as follows:

Sec. 7-027. Purpose.

The purpose of this article is declared:

- (a) To establish regulations consistent with nationally recognized standards for the safeguarding of life and property, to a reasonable degree, from the hazards of fire and explosion arising from the storage, handling, and use of hazardous substances, materials, and devices.
- (b) To establish regulations preventing conditions hazardous to life or property in the use or occupancy of buildings or premises.
- (c) To adopt by reference, with amendments and additions, the periodically updated editions of the International Fire Code (IFC) and specified IFC appendices as the Township Fire Prevention Code.

Sec. 7-028. Adopted.

The 2015 International Fire Code (IFC), as published by the International Code Council, including IFC Appendices B, C, D, and I on Fire-Flow Requirements For Buildings, Fire Hydrant Locations and Distribution, Fire Apparatus Access Roads, and Fire Protection Systems - Noncompliant Conditions, is hereby adopted by reference as the Township Fire Code and an ordinance of the Township, with the amendments and additions in Sections 7-029 and 7-030, and the Charter Township of Waterford inserted as the Name of Jurisdiction in Section 101.1 of the Fire Code. Copies of the Fire Code shall be kept at the offices of the Fire Chief and Township Clerk and be made available for inspection by the general public at all times those offices are open. Complete or partial copies of the Fire Code are available for distribution to the public upon request and payment to the Township of its labor and material copying costs and/or costs to obtain the copy of or copying rights for requested material from the International Code Council if required by law.

Sec. 7-029. Amendments to the Fire Code.

The following sections of the adopted International Fire Code are amended, or by the addition of text as indicated, to read as follows:

***108 Board of Appeals.* Amended to read:**

The Township construction board of appeals provided for in Chapter 4 of the Township Code of Ordinances shall serve as the Board of Appeals for purposes of this Fire Code.

***109.4 Violation penalties.* Amended to read:**

A. Except as otherwise provided in subsection B, persons who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or directive of the Fire Chief or Building Official, or of a permit or certificate used under provisions of this code, shall be responsible for a civil infraction punishable as provided in Section 1-010(b) of the Township Code of Ordinances.

B. Violations of Sections 5601.1 through 5608.10 of this Fire Code, are punishable as a misdemeanor as provided in Section. 1-010(a) of the Township Code of Ordinances.

Fire Prevention Code Ordinance Amendment; 2020-003 Continued.**110.1. General. Amended to add the following:**

The following dangerous or hazardous conditions or materials are within the scope of this section:

1. Hazardous conditions likely to cause or contribute to the spread of fire in or on said premises or structure or endanger the occupants thereof;
2. Conditions that substantially interfere with the efficiency or operation of any fire protection equipment and system;
3. Obstructions to or on fire escapes, stairs, passageways, doors, or windows, that are likely to interfere with the egress of occupants, or the operation of the fire department in case of a fire;
4. Accumulations of dust or waste material in air-conditioning or ventilating systems, or grease in kitchen or other exhaust ducts;
5. Accumulations of grease in kitchen cooling equipment, or oil, grease, or dirt upon, under, or around any mechanical equipment;
6. Accumulations of rubbish, waste, paper, boxes, shavings, or other combustible materials, or excessive storage of any combustible material;
7. Hazardous conditions arising from defective or improperly utilized or installed electrical wiring, equipment, or appliances;
8. Hazardous conditions arising from defective or improperly installed equipment for handling or using combustible, explosive, or otherwise hazardous materials;
9. Dangerous or unlawful amounts of flammable, combustible, explosive, or otherwise hazardous materials; and
10. All equipment, materials, processes, or operations that are in violation of the provisions and intent of this code.

111.4 Failure to Comply. Amended to read:

Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be responsible for a civil infraction punishable as provided in Section 1-010(b) of the Township Code of Ordinances.

202 GENERAL DEFINITIONS. Amended to add the following:

Building Code. The Single State Construction Code Act and State Construction Code described in the Township State Construction Code Ordinance codified in Article III of Chapter 4 of the Township Code of Ordinances. References in the Fire Code to the International Building Code shall be to the applicable provision of the Building Code.

304.3.3 Capacity exceeding 1.5 cubic yards. Amend paragraph before Exceptions to read as follows:

Dumpsters and containers with an individual capacity of 1.5 cubic yards [40.5 cubic feet] or more shall not be stored in buildings or placed within 15 feet of combustible walls, openings, or combustible roof eave lines. When available space does not permit at least 15 feet from combustible

Fire Prevention Code Ordinance Amendment; 2020-003 Continued.

structures or openings, the Fire Chief may allow a lesser distance provided the dumpster or container is equipped with locking metal lids. The placement of a dumpster or container shall at no time interfere with egress from a building, or access by fire-fighting equipment.

901.7.4 Preplanned impairment programs. Amended to add a new paragraph 9:

9. In the event that a preplanned impairment requires an extended period of time to complete any such repairs, provisions for a 'fire watch' shall be implemented by the impairment coordinator during the full-extended time period of the impairment.

902.1 Definitions. Amended to add the following:

Certified. A firm or individual approved or licensed by the State Fire Marshal to install and maintain fire alarm and/or fire suppression systems or equipment, pursuant to Act 144 of the Public Acts of 1982. Upon request by the Fire Chief, firms or individuals shall present evidence of certification.

906.1 Where required. Amended to add a new paragraph 7:

7. In hotels, dormitories, lodging houses, and apartment buildings, at least one (1) fire extinguisher shall be provided on each floor at, or near, the stairway landing, and in the corridor at each elevator or bank of elevators, or near the exit doors from the corridor.

907.2.11.2 Groups R-2, R-3, R-4 and I-1. Amended to add a new paragraph 4:

4. Smoke detectors shall be installed in corridors, hallways, and all commons areas (including basement storage and laundry areas) of occupancies in Use Groups R-2 and R-3. Said smoke detectors are to be hard-wired and interconnected.

2306.1 General. Amended to read:

Storage of flammable and combustible liquids shall be in accordance with Chapter 57, Section 2306.2 through 2306.6.3, and the rules promulgated by the Michigan State Fire Safety Board.

5601.1 Scope. Amended to add the following sentence before the Exceptions:

The display, sale, storage, possession, transportation, distribution, ignition, discharge, and use of fireworks in the Township shall be prohibited, except as allowed by and in compliance with the Michigan Fireworks Safety Act, Public Act No. 256 of 2011, as amended, MCL 28.451 – MCL 28.471, referred to in this section as the "Act", and the provisions of this code.

Possible Adoption of Fire Prevention Code Ordinance Amendment; 2020-003 Continued.

5704.2.9.6.1, 5706.2.4.4, 5806.2, and 6104.2 are each amended to delete the following language:

(see Section 3 of the Sample Legislation for Adoption of the International Fire Code on page xxi).

Sec. 7-030. Additions to Fire Code.

The following sections are added to the adopted International Fire Code to read as follows:

113.6 Fees for Services; Board Resolution. The Fire Chief shall develop, as needed, a schedule of fees to be assessed for services in various functions of review and inspections such as, but not limited to, assignment of addresses, fireworks displays, environmental review, fire detection, alarm and other system review, testing and inspections, sprinkler systems and the like. Upon submission of the recommended schedule of fees for services to the Township Board, the Board shall, by resolution, adopt, and amend from time to time, the schedule of fees for Fire Department services.

104.2.1 Fire Chief approval. Prior to issuance of any permit, the Building Official shall consult with the Fire Chief on all plans and specifications except those for single family dwellings. If the Fire Chief finds that the plans conform to all requirements for fire safety, the plans shall then be returned to the Building Official as approved.

104.2.2 Fire Chief approval. No Certificate of Use and Occupancy shall be issued for any alteration, renovation, or remodel of any existing building, or construction of any new building, except for all single-family dwellings, prior to the inspection and approval of the Fire Chief.

104.10.2. Investigation specifics. Whenever a fire, explosion, or other hazardous condition is of a suspicious nature or which involves the loss of life, or serious injury, or causes destruction or damage to property, such an occurrence shall require an investigation, to be initiated immediately, and where suspicious in nature, the Fire Chief shall take charge of the physical evidence; and, in order to preserve any physical evidence relating to the cause or origin of such fire or explosion.

104.10.3 Fire records. The Fire Chief shall keep a record of all fires and all facts concerning the same, including investigation findings, statistics and information as to the cause, origin, and the extent of such fires, and the damage caused thereby.

107.6.1 Overcrowding. A person shall not permit overcrowding or admittance of any person beyond the approved occupant load. The Fire Chief, upon finding overcrowded conditions or obstruction in aisles, passageways, or other means of egress, or upon finding any condition which constitutes a hazard to life and safety, shall cause the occupancy, performance, presentation, spectacle, or entertainment to be stopped until such a condition or obstruction is corrected. The addition of any further occupants shall be prohibited until the approved occupant load is reestablished. In the interest of safety to the occupants involved in overcrowding, the Fire Chief may also order

Possible Adoption of Fire Prevention Code Ordinance Amendment; 2020-003 Continued.

the immediate evacuation of the building until safe conditions may be established.

109.4.2 Re-Inspection Fees. It shall be the right of the Fire Chief to assess fees for all fire code violations that have not been corrected by the time of the second re-inspection by the Fire Chief. The Fire Chief shall collect the fees by all means available under the law and the Code of Ordinances.

110.1.1.1. Special equipment. Special Fire protection equipment shall be installed when adequate fire protection is not being provided, or hazardous or dangerous conditions exist. The special fire protection equipment shall be installed in accordance with the requirements of this code and the building code.

110.2.1 Unlawful continuance. Any person who refuses to leave, interferes with the evacuation of other occupants, or continues any operation after having been given an evacuation order, except such work as that person is directed to perform in order to remove a violation or unsafe condition, shall be deemed to be in violation of the code and responsible for a civil infraction.

307.1.2. Permitted open burning. Section 307.1.1 does not prohibit bonfires and recreational fires by permit or the use of portable outdoor fireplaces, that shall be subject to and in compliance with this section 307, and any Fire Chief established rules or orders that prohibit fires as hazardous due to atmospheric conditions or local circumstances under Section 307.1.1.

308.1.4.1 Balcony Prohibition. The use or storage of barbecue grills, char broilers, smokers, deep fryers, and similar cooking or heat generating devices or appliances is prohibited on balconies and decks of commercial buildings and multiple-family dwellings. For the purposes of this section, a balcony or deck is a deck, patio, or porch as defined in Section 1-007 of the Township Zoning Ordinance.

315.3.5 Approval required. A person shall not store in any building or upon any premises in excess of 2,500 cubic feet (70M) gross volume of combustible empty packing cases, boxes, barrels or similar containers, or rubber tires, baled cotton, rubber, cork, or other similarly combustible material without having obtained approval from the Fire Chief.

503.4.2. Authority to remove obstructions. If any vehicle, trailer or other object is so located within a fire lane at the time the fire department is responding to an alarm (which necessitates use of such fire lane), any member of the Township police department, or fire department, may move or cause same to be removed, by any means necessary and reasonable under the circumstances.

507.5.1.2. Location. When a building is equipped with an automatic fire suppression system, there shall be a fire hydrant located at least 50 feet, but no more than 100 feet from the fire department connection on the building.

Possible Adoption of Fire Prevention Code Ordinance Amendment; 2020-003 Continued.

901.2.2 Review fees. When, at the discretion of the Fire Chief, plans and specifications are reviewed by an outside consultant, the person or firm submitting the plans and specifications shall be responsible for the total consulting fees or charges. In addition to the fees, a 10% administrative charge for processing will be added. The Building Official shall select the consultant. Consulting fees or charges shall be submitted with the plans and specifications, in full, and prior to review.

901.2.3 Certification required. Any installation, testing, repair, or maintenance of fire alarm or suppression systems required by this code or the building code, shall be performed by a certified fire alarm or suppression system firm.

901.2.4 System approval. Acceptance approval by the Fire Chief shall be withheld until a certificate of installation is received and accepted by the Fire Chief.

901.4.1.1. Licenses and certifications. All fire protection systems shall be installed by a contractor/installer/technician licensed or certified for the particular type of system. Such licenses and/or certifications shall include:

- A. Consumer & Industry Services, Fire Safety Division, State of Michigan - Mechanical Contractor's License, through the Department of Labor.
- B. Certification from the company/manufacture whose equipment the installer/technician is authorized to install and/or service.

901.4.1.2. License requirement. Only those companies that meet the requirements for certification and licensing will be recognized and permitted to install or service fire protection systems, either fixed, portable, and/or handheld within the Township of Waterford.

903.3.6.1. Hose threads. All hose thread connections for 1 1/2" or 1 3/4" hose is National Standard. All hose thread connections for 2 1/2" hose is Detroit Standard. All Fire Department connections (Siamese connections) are 2 1/2" Detroit Standard threading.

903.3.7.1. Location. For any building or structure required to be equipped with a fire department connection, the connection shall be located within 100 feet of a fire hydrant, and within 50 feet of a minimum 18 feet wide paved driveway or street.

903.3.7.2. Audible/visual alarms. Combination audible/visual alarms shall be installed at all Fire Department connections at the location determined by the Fire Chief, and inside the building at or near the system riser.

903.3.8.6 Backflow prevention. A testable backflow prevention device shall be installed between the sprinkler system supply main and the domestic water system piping, to prevent any backflow from the sprinkler piping to the domestic water supply.

Possible Adoption of Fire Prevention Code Ordinance Amendment; 2020-003 Continued.

904.12.7 Audible/visual alarms. All commercial kitchen installations shall be equipped with an audible/visual alarm, which initiates upon release of the chemical suppression system. The alarm shall be located near the exhaust hood for the system. Multiple hood systems may require additional alarms as required by the Fire Chief.

906.3.5. Required size. Fire extinguishers in all Light and Ordinary Hazard occupancies shall be a minimum size of 3A-40BC (5 pound), and Extra Hazard occupancies shall be a minimum size of 4A-60BC (10 pound), at the direction of the Fire Chief. Said extinguishers shall be tested by an approved, certified company on an annual basis.

907.1.4. U.L. listed fire alarm panels. An Underwriter's Listed fire alarm panel shall be required for any location with smoke detectors, rate-of-rise heat detectors, sprinkler systems, hood suppression systems, flow alarms, and tamper alarms. Such panel shall be located at the direction of the Fire Chief. The fire alarm panel shall indicate by zone, in clear language, the location of any and all devices, and shall be accessible without special knowledge or code, with the capability of being silenced by the Fire Department.

912.2.3 Utilities. Gas meters, propane tanks, overhead electrical services, and transformers shall not be located on the same side of a building or structure as a fire department connection, unless a clear distance of 150 feet can be maintained between the utilities and the fire department connection, at the direction of the Fire Chief.

2304.2.6 Service station public address system. An Underwriter's Laboratory listed and approved public address system shall be installed at each self-service station, providing the capability of two-way communication between the fuel dispensing area and the station attendant. The public address system shall be maintained in an operational and functioning condition at all times.

2304.2.7. Combustibles. No combustibles shall be displayed within 20 feet of a fuel dispensing area at self-service stations. This shall include tires, motor oil, and any other combustible items, or items packaged in combustible containers.

2306.2.7 Listing. Any and all Aboveground storage tanks (ASTs) and/or Underground storage tanks (USTs), are required to be used in accordance with their respective listing only. The use of an underground storage tank as an aboveground storage receptacle, or an aboveground storage tank for underground use is prohibited unless specifically allowed per the UL listing for that tank. All such tanks currently in use, in violation of this section, shall be rendered out of service, emptied of any contents, purged when necessary, and removed from the premises.

3408.3. Tire fire protection. Outside storage of tires shall not be located more than 300 feet from an operating fire hydrant. Portable fire-fighting appliances shall be within 15 feet of any mechanism which operates to produce shavings or rubber dust in all outside tire storage areas.

Possible Adoption of Fire Prevention Code Ordinance Amendment; 2020-003 Continued.

Smoking is prohibited within 50 feet of a mechanism which is operating to produce shavings or rubber dust in outside tire storage areas.

3405.1.1. Residual cleanup following a fire. If any dangerous or hazardous waste is generated or stored on the site of an outside tire storage area as a result of a fire in such area or due to any other occurrences, such wastes shall be disposed of and cleaned up in accordance with all applicable federal, state and local waste disposal regulations. No further tire storage may occur until the appropriate agency has certified that proper removal and disposal has taken place.

3409.1 Inside tire storage. Inside tire storage shall be arranged so as not to obstruct egress from the building, and with aisles between areas of storage a minimum of 10 feet wide, so as to subdivide the storage into units, with no horizontal dimension of more than 25 feet wide, and a maximum height of 20 feet, and shall comply with Sections 3404, 3406, and 3408.

5601.2.2.1. Permit required. Except to the extent it is not required by the Act, a permit shall be obtained from the Fire Chief for the display, retail sale, or discharge of fireworks in the Township.

5601.2.2.2. Permit issuance. Applications/requests for fireworks (display) permits shall be made in writing at least 60 days in advance of the date of the intended display of fireworks. The display of fireworks shall be lawful under the terms and conditions approved with the permit, and for that purpose only. A permit granted hereunder is not assignable or transferable, nor shall any such permit be extended beyond the dates set out therein. Any violation of the conditions of the permit or this code shall result in the immediate revocation of said permit.

Section 2 of Ordinance

Should any section, subdivision, sentence, clause or phrase of this ordinance be declared by the Courts to be invalid, the same shall not affect the validity of the Ordinance as a whole or any part thereof other than the part as invalidated.

Section 3 of Ordinance

This Ordinance shall take effect immediately upon publication.

CERTIFICATION

I certify that this Ordinance was adopted by the Board of Trustees of the Charter Township of Waterford at a regular meeting held on _____, 2020.

CHARTER TOWNSHIP OF WATERFORD

Date

By: _____
Kimberly F. Markee, Township Clerk

Introduced: January 27, 2020

Adopted:

Possible Adoption of Fire Prevention Code Ordinance Amendment; 2020-003 Continued.

Moved by Joliat,

Seconded by Bartolotta; RESOLVED, to adopt the Fire Prevention Code Ordinance Amendment 2020-003. A roll call vote was taken.

Ayes: Wall, Markee, Birch, Bartolotta, Frasca, Joliat, and Thomas

Nays: None

Absent: None

Motion carried unanimously.

7. Introduction

7.1 Rezoning Case No. 19-12-03; Rezone From R-M1, Low Density Multiple Family Residential To R-1A, Single Family Residential

Background and Analysis

Zoning History: 1950 – 1963: Residential-1
 1963 –1998: R-1A Single-Family
 1998 – 2011: R-1A Single-Family Residential Max 4 DU/Acre
 2011 – Present: R-M1 Low-Density Multiple-Family Residential

Township Utilities: Existing services are available on the site.

Master Plan: Multiple Family.

This property was recently acquired by Vera Camaj. Prior to the acquisition, the property was utilized as a single-family residence. Since 2010, the property had been zoned R-M1, Low-Density Multiple-Family Residential with the idea that the use would be compatible with the adjacent apartment complex. However, since that time, no activity to develop a multiple-family development has occurred. The owner is requesting to rezone back to the historical zoning for the property, R-1A, Single-Family residential. The applicant has submitted a lot split request, pending rezoning approval, that would create a total of three equally sized lots with frontage on Watkins Lake Rd.

The property's dimensions of 295 feet wide by 296 feet deep greatly exceed the requirements of the R-1A, Single-Family Residential zoning district. Even with considering the pending lot split which would result in three properties with dimensions of 98.3 feet wide by 296 feet deep, these would still exceed the requirements of the R-1A district. With the exception of the adjacent apartments, single-family zoning is the principle zoning type and development style within the general area. The proposed request is more in line with the surrounding zoning than the existing zoning. The resulting range of uses would result in a similar range of uses that currently exist with the exception that the multiple-family and duplex style residential would be replaced and restricted to single-family homes.

The Master Plan indicates that this parcel and the adjacent apartments are designated as Multiple Family. The intent of this district is to provide for a variety of housing styles and sizes and does not specifically exclude any type of residence. The Multiple Family designation is intended to provide for a variety of housing styles without a specific restriction on the types and sizes. Projects developed should be compatible with the character of the surrounding properties. Rezoning the property from multiple-family to single family, while not maximizing the development

Rezoning Case No. 19-12-03; Rezone from R-M1, Low Density Multiple Family Residential To R-1A, Single Family Residential Continued.

potential, is not out of the scope of the Multiple Family designation as is more in line with the historic development pattern of the area.

This proposal would permit an underperforming parcel to be more fully developed in a way that would be more harmonious to the surrounding neighborhoods. Staff is supportive of this proposal without any conditions

Township Board Action

Motions

Based upon the Planning Commission's favorable recommendation at the January 28, 2020 regular meeting for this rezoning case, should the Board want to consider adopting the requested rezoning to R-1A, Single-Family Residential, the appropriate motion would be to introduce the attached Ordinance and schedule it for possible adoption at the February 24, 2020 meeting.

However, if the Board does not want to adopt the requested rezoning, the appropriate motion would be to not introduce the Ordinance and deny the rezoning.

Staff will be available at Monday's meeting for any questions on this case. However, if you have any questions in advance of the meeting, please contact this office.

Moved by Bartolotta,

Seconded by Thomas; RESOLVED, to introduce Ordinance 2019-001-Z; rezoning Case No. 19-12-03 from R-M1, Low Density Multiple Family Residential to R-1A, Single Family Residential; furthermore, to schedule the Ordinance for possible adoption at the February 24, 2020 regular board meeting. A roll call vote was taken.

Ayes: Wall, Markee, Birch, Bartolotta, Frasca, Joliat, and Thomas

Nays: None

Absent: None

Motion carried unanimously.

8. New Business

8.1 Michigan Indigent Defense Commission (MIDC) Grant Contact for FY2020 and Interlocal Agreement with Oakland County

The following memo was received from Gary Dovre, Township Attorney.

MIDC Grant Contract

As reported last year when you approved an MIDC Grant Contract for FY2019 (10/1/2018 - 9/30/2019), under the Michigan Indigent Defense Commission Act ("Act") adopted in 2013 and amended in 2018, the MIDC is responsible for developing and ensuring compliance with uniform minimum standards for Michigan courts to provide indigent criminal defense services. The Act provides for State grants to assist "Indigent Criminal Defense Systems" such as the Township (as the funding unit for the 51st District Court) in complying with the standards.

Michigan Indigent Defense Commission (MIDC) Grant Contract for FY2020 and Interlocal Agreement with Oakland County Continued.

Provided with this letter for approval is MIDC's proposed Grant Contract for FY2020 (10/1/2019 - 9/30/2020.) Ms. Thom has advised this is what was expected, including the budget amounts on page 1, and recommends approval. I concur with that recommendation. If you agree, the appropriate action would be a motion:

To approve and authorize the Supervisor to sign the Grant Contract with the State Michigan Indigent Defense Commission and Department of Licensing and Regulatory Affairs for October 1, 2019 to September 30, 2020.

Interlocal Agreement with Oakland County

The second Agreement provided with this letter for approval is Oakland County's proposed Interlocal Agreement to provide defense attorneys at the County jail for indigent defendants being arraigned beginning March 2, 2020. Under the MIDC Grant Contract, providing those attorneys is the Township's responsibility and money is allocated in the Township's MIDC grant for the costs of doing that. The amounts to be paid by the Township to the County are roughly 65% of the Township's annual grant amount for that MIDC requirement, reflecting that the period from March 2nd to September 30th is 65% of the 2020 Fiscal Year.

Our office had two (2) general areas of concern with the County's proposed Agreement. The first was with respect to many provisions that are way too one-sided in the County's favor for a cooperative intergovernmental agreement such as this. However, upon presenting those concerns to the County attorney, we were advised that the County Board of Commissioners had already approved the Agreement for all Oakland County communities and that the Township had indicated the Agreement was acceptable before that Board of Commissioner's approval.

In this situation where there is no risk of the Township not paying (Ms. Thom confirmed that the FY 19 Prior Year Unspent Funds on page 1 of the MIDC Grant Contract could be used if necessary) the chances of those objectionable provisions coming into play is extremely low. That combined with the benefits to the Court and Township of this arrangement, and that the County will hopefully be able to assume this entire responsibility in future years (see Section 4.2) provide a rationale for overlooking the objectionable provisions and approving the Agreement.

The second concern we had with the County's Agreement was whether the Township signing it would violate the Township's MIDC Grant Contract. Those concerns on behalf of Waterford and two other clients (Farmington and Farmington Hills) were discussed with the County attorney, who then presented them to MIDC. Attached is a January 30, 2020 email from MIDC's Regional Manager that has satisfied our concerns.

As with the MIDC Grant Contract, Ms. Thom recommends approval of the Interlocal Agreement with Oakland County, and for the reasons outlined above, I believe that following that recommendation would be in the best interest of the Township. A written Resolution approving the County Agreement is required and provided. Your action could be by a motion to:

Adopt the Resolution approving the Interlocal Agreement with Oakland County
For Appointments of Arraignment-Only Attorneys in the Oakland County Jail

Michigan Indigent Defense Commission (MIDC) Grant Contract for FY2020 and Interlocal Agreement with Oakland County Continued.

**CHARTER TOWNSHIP OF WATERFORD
OAKLAND COUNTY
RESOLUTION APPROVING INTERLOCAL AGREEMENT FOR
APPOINTMENTS OF ARRAIGNMENT-ONLY ATTORNEYS
IN THE OAKLAND COUNTY JAIL**

RECITALS:

- A. At a regular meeting of the Waterford Township Board of Trustees on February 10, 2020, the Board approved and authorized the Township Supervisor to sign a grant agreement between Waterford Township as the local funding unit and the Michigan Indigent Defense Commission (MIDC) for the period from October 1, 2019 to September 30, 2020.
- B. The MIDC Act requires local funding units to create a compliance plan and the cost analysis required to deliver indigent defense services in compliance with the first four approved MIDC standards. MIDC Standard 4 – Counsel at First Appearance and Other Critical Stages, requires local funding units to provide indigent defense counsel to incarcerated defendants at video arraignments conducted from the Oakland County Jail (OCJ).
- C. Pursuant to the Urban Cooperation Act of 1967, Act 7 of 1967, MCL 124.501 *et seq.*, which provides for interlocal public agency agreements, and for the purpose of complying with the Michigan Indigent Defense Commission Act of 2013, 2013 Public Act 93, MCL 780.981 *et seq* to provide indigent defense counsel to incarcerated defendants at video arraignments conducted in the Oakland County Jail, the Charter Township of Waterford desires to contract with Oakland County to do that.
- D. Attached to this Resolution is an Interlocal Agreement Between Oakland County and Township of Waterford for Appointments of Arraignment-Only Attorneys in the Oakland County Jail as prepared and approved by Oakland County and presented to the Township for approval.

IT IS THEREFORE RESOLVED THAT:

The attached Interlocal Agreement Between Oakland County and Township of Waterford for Appointments of Arraignment-Only Attorneys in the Oakland County Jail is approved and the Township Supervisor is authorized and directed to sign it on behalf of the Township.

CERTIFICATION

I hereby certify that this Resolution was adopted by the Charter Township of Waterford Board of Trustees at a regular meeting of the Board on February 10, 2020.

Charter Township of Waterford

Date

Kim Markee, Township Clerk

Moved by Markee,
Seconded by Frasca; RESOLVED, to approve and authorize Supervisor to sign the Grant Contract with the State of Michigan Defense Commission and Department of Licensing and Regulatory Affairs for

October 1, 2019 to September 30, 2020. A roll call vote was taken. A copy of the Interlocal Agreement is attached to these minutes.

Ayes: Wall, Markee, Birch, Bartolotta, Frasca, Joliat, and Thomas
Nays: None
Absent: None

Motion carried unanimously.

Moved by Markee,
Seconded by Bartolotta; RESOLVED, to adopt the Resolution approving the Interlocal Agreement with Oakland County for Appointments of Arraignment-Only Attorneys in the Oakland County Jail. A roll call vote was taken.

Ayes: Wall, Markee, Birch, Bartolotta, Frasca, Joliat, and Thomas
Nays: None
Absent: None

Motion carried unanimously.

Clerk Markee read the Resolution Approving Interlocal Agreement for Appointments of Arraignment-Only Attorneys in the Oakland County Jail.

8.2 Hiring of Superintendent of Planning and Zoning – Jeffrey Polkowski

The following memo was received from Rob Merinsky, Director, Development Services.

The Development Services Department recently posted the vacant planning position created by the retirement of Mr. Larry Lockwood. After careful consideration, I feel Mr. Jeffrey Polkowski has the experience, education, and attitude necessary to succeed as the *Superintendent of Planning & Zoning Division*. In summary, Mr. Polkowski is an AICP certified planner and has several years of valuable municipal planning experience, most recently as the Senior Planner for the City of Dearborn. In addition to his planning experience, he is also proficient with Geographic Information Systems (GIS), grant writing and administration, Community Development Block Grant project oversight, and watershed management. In all, I expect that his diverse background will serve our community well.

With that, I am requesting the Board approve the appointment of Mr. Polkowski to *Superintendent of Planning & Zoning Division* within the Development Services Department. This appointment under the Management and Administration Group agreement is at a Grade 8, Step 6 level.

Trustee Bartolotta inquired as to why Mr. Polkowski how long he was in Dearborn and why he wanted to come to work at Waterford Township.

Mr. Polkowski advised he worked for Dearborn for 3.5 years and his research was in revitalizing waterfront communities and his Masters is in Water Resource Planning and Management. Mr. Polkowski first moved to the Great Lakes because of his interest in Water Resource Management. After getting supervisory experience, in Dearborn, he wanted to move to a community with more water resource options.

Hiring of Superintendent of Planning and Zoning – Jeffrey Polkowski Continued.

Moved by Joliat,

Seconded by Frasca; RESOLVED, to approve the appointment of Mr. Polkowski to Superintendent of Planning & Zoning Division within the Development Services Department under the Management and Administration Group agreement at a Grade 8, Step 6 level. A roll call vote was taken.

Ayes: Wall, Markee, Birch, Bartolotta, Frasca, Joliat, and Thomas

Nays: None

Absent: None

Motion carried unanimously.

8.3 Ms. Rachel Woolcox Promotion to DPW Staff Analyst

The following memo was received from Russell Williams, Director, Department of Public Works.

On January 23, 2020 an interview panel consisting of Mark Simlar, HR Director, Derek Diederich, DPW Administrative Superintendent / Township Budget Director, Barb Miller, Accounting Mgr. / Assistant Budget Director, Frank Fisher, DPW Engineering Superintendent and myself was convened for the purpose of filling the vacant Staff Analyst position at the DPW. Interviews of five internal very qualified Waterford Township employees took place. All of the applicants were very strong, the task of selection was difficult. Much deliberation took place and the panel all agreed the Township is fortunate to have such a talented group on which to draw from.

After completing interviews and several hours of difficult deliberation by the interview panel, Ms. Rachel Woolcox was selected as the successful candidate. Ms. Rachel Woolcox has been with Waterford Township since December of 2015. Ms. Woolcox started as a Part Time Parks & Recreation Clerk, then working full time as an Assessing Clerk before transferring to the DPW as an Account Clerk and currently works as a Utility Billing Clerk at the DPW. Ms. Woolcox holds a Bachelor's Degree from Central Michigan University and has expressed an interest in furthering her education as well.

REQUESTED BOARD ACTION

**Approve Ms. Rachel Woolcox as DPW System Analyst / Safety Coordinator
Management & Administration Group, Grade 4, Step 1 with a maximum of Step 5**

Moved by Birch,

Seconded by Frasca; RESOLVED, to approve Ms. Rachel Woolcox as DPW System Analyst / Safety Coordinator Management & Administration Group, Grade 4, Step 1 with a maximum of Step 5. A roll call vote was taken.

Ayes: Wall, Markee, Birch, Bartolotta, Frasca, Joliat, and Thomas

Nays: None

Absent: None

Motion carried unanimously.

8.4 DPW Engineer Job Description Revision

The following memo was received from Russell Williams, Director, Department of Public Works.

After posting the current DPW Engineering position in Mid-November 2019 there have been very few applicants and no qualified to meet the current job description requirements. With this in mind, the DPW is requesting a change in the job description and pay range. The current job description is a Management and Administration (M&A) Grade 6, Step 5 Max without a Professional Engineer requirement. The requested change would add a Professional Engineer (P.E.) Requirement and move the position to a Management and Administration Grade 8, with a Max of Step 5. This will require a budget amendment for 59058-70200 account for \$10,791.60 from the (590) Water & Sewer Enterprise Fund.

Waterford Township's Fiscal and Human Resources Department have reviewed and agree that market conditions and the needs of the Department warrant serious consideration to this recommendation. As a reminder, the Water-Sewer's financial resources do not involve tax receipts, they are garnered from water-sewer user based fees.

As you know, the Water and Sewer Branch of the Department of Public Works is a multifaceted and ever complex utility. Having a Professional Engineer on staff to review plans of public infrastructure and to help project manage important public improvements and to help safe guard the public's health and welfare is why the following recommendation is being made. Please keep in mind, that it is very possible that having an in-house engineer will very well permit some of the projects being currently outsourced to be conducted by the Department itself. This would very well help defray the salary adjustment being requested of this body at this time.

REQUESTED BOARD ACTION

Approve Revised Job Description for DPW Engineer.

Amend Budget Line 59058-70200 for an additional \$10,792.00 + FICA Withholding

Moved by Bartolotta,

Seconded by Thomas; RESOLVED, to approve the revised job description for DPW Engineer; furthermore to amend budget line item 59058-70200 increasing additional \$10,792.00 plus FICA withholding. A roll call vote was taken.

Ayes: Wall, Markee, Birch, Bartolotta, Frasca, Joliat, and Thomas

Nays: None

Absent: None

Motion carried unanimously.

8.5 DPW Dump Truck Purchase

The following memo was received from Russell Williams, Director, Department of Public Works.

During the 2020 budget meetings, the DPW requested the purchase of a Heavy Duty 10 Yard Dump Truck.

Please see the attached quotes, one for the dump box and one for the chassis. Both quotes are based on a City of Rochester Hills government-pricing index.

This new truck will be replacing an asset that is a 1999 GMC C8500 Topkick. This truck has provided Waterford Township DPW a long productive life. In recent years, this asset has required several repairs that required it to be out of service for extended times.

DPW Dump Truck Purchase Continued.**REQUESTED BOARD ACTION**

**Approve Purchase of 2020 Tandem Axle 64,000# Dump Truck
Total cost not to exceed \$136,200.00 from account 59045-97136**

Moved by Bartolotta,
Seconded by Markee; RESOLVED, to approve the purchase of a 2020 Tandem Axle 64,000# Dump Truck in the amount not to exceed \$136,200.00 utilizing funds from account 59045-97136. A roll call vote was taken.

Ayes: Wall, Markee, Birch, Bartolotta, Frasca, Joliat, and Thomas
Nays: None
Absent: None

Motion carried unanimously.

8.6 DLZ Water Main Engineering & Surveying Proposal for West Huron Street

The following memo was received from Russell Williams, Director, Department of Public Works.

Please see the attached DLZ Michigan, Inc., Proposal for Engineering and Surveying Services. This is to replace water main on the south side of W. Huron Road (M59) from Lynn Avenue to Telegraph Road. This water main was installed in 1962. With several historic / recent breaks that required replacement of large sections of pipe due to ageing cast iron pipe. As repairs are attempted, DPW crews need to dig back on sections of pipe to locate an area of pipe that is structurally capable of supporting an additional repair clamp without leaks.

This project was not budgeted for 2020. This proposal is to complete engineering, acquire engineering cost estimates, and prioritize the current water main replacement projects for Waterford Township in 2020.

A budget amendment is not necessary at this time. Funds for the engineering will be from the 59045-97010 Water Capital-Infrastructure Preservation account.

REQUESTED BOARD ACTION

**Approve DLZ Proposal for Engineering and Surveying Services for W. Huron Street (M59)
Total cost not to exceed \$39,000.00 from account 59045-97010**

Moved by Joliat,
Seconded by Frasca; RESOLVED, to Approve DLZ Proposal for Engineering and Surveying Services for W. Huron Street (M59) with a total cost not to exceed \$39,000.00 utilizing funds from account 59045-97010. A roll call vote was taken.

Ayes: Wall, Markee, Birch, Bartolotta, Frasca, Joliat, and Thomas
Nays: None
Absent: None

Motion carried unanimously.

8.6a Part-Time Election Employees

The following memo was received from Clerk Markee.

I respectfully request your approval to add up to two part time employees to assist with the additional election that the Township was informed of on February 7, 2020. This election is being requested by Waterford School District to be held on May 5, 2020. The May 5th election was not included in the original budget. The additional part time employees are needed because of the extra election. We will charge back to the Waterford School District the additional employees' wages for work related to the May 5th election. When the check is received, it will reimburse the General Fund.

Please approve an increase to the Elections budget for \$60,000 for account 11910 70300 Wages – PT, Time/Temp and approve a corresponding increase to the General Fund budget for account 10101 68701 Reimbursement - Elections for \$60,000 for the revenue that will be received from the Waterford School District.

Moved by Joliat,

Seconded by Frasca; RESOLVED, to approve and increase to the Elections Budget for the \$60,000 11910-70300, Wages PT Temp and approve a corresponding increase for account 10101 68701 Reimbursement - Elections for \$60,000 for the revenue that will be received from the Waterford School District. A roll call vote was taken.

Ayes: Wall, Markee, Birch, Bartolotta, Frasca, Joliat, and Thomas

Nays: None

Absent: None

Motion carried unanimously.

Trustee Bartolotta asked Clerk Markee if anything else would be on the ballot. Clerk Markee advised that the School District Bond Proposal is currently the item only item May 5, 2020, Election.

8.7 Public Comments Limited to Three (3) Minutes per Topic

Grant Smith, Waterford Youth Assistance (WYA)

The WYA started their annual Stop the Shoplifting Program. Every 5th Grade class in the Waterford School District will participate.

February 13, 2020, Conflict Workshop will be held at the Library at 6:30 p.m. Please register.

February 14, 2020, is the deadline to nominate a Student for the annual

March 28, 2020, A Night of Mystery will be held at Overtyme.

For more information visit www.waterforyouthassistance.com

Treasurer Birch announced that she will not be running for re-election. Her last day will be November 20, 2020. The Board offered their congratulations and thanked her for her years of service.

ADJOURNMENT

Moved by Bartolotta;
Seconded by Frasca, RESOLVED, to adjourn the meeting at 7:02 p.m.

Motion carried unanimously.

Kimberly F. Markee, Clerk

Gary Wall, Supervisor

INTERLOCAL AGREEMENT
BETWEEN
OAKLAND COUNTY
AND
TOWNSHIP OF WATERFORD
FOR APPOINTMENTS OF ARRAIGNMENT-ONLY ATTORNEYS
IN THE OAKLAND COUNTY JAIL

This Agreement (“Agreement”) is made between the County of Oakland (“County”), a Michigan Constitutional and Municipal Corporation, whose address is 1200 North Telegraph, Pontiac, Michigan 48341, and the Township of Waterford (“Funding Unit”), whose address is 5200 Civic Center Drive, Waterford, Michigan 48320. In this Agreement, County and Funding Unit may also be referred to jointly as the “Parties.”

PURPOSE OF AGREEMENT. County and Funding Unit enter into this Agreement pursuant to the Urban Cooperation Act of 1967, 1967 Public Act 7, MCL 124.501 *et seq.*, for the purpose of complying with the Michigan Indigent Defense Commission Act of 2013, 2013 Public Act 93, MCL 780.981 *et seq.*, and delineating the duties of the Parties related to providing indigent defense counsel to incarcerated defendants at video arraignments conducted in the Oakland County Jail. The Parties agree, subject to the terms and conditions set forth in this Agreement, to provide funds and/or services as described in Exhibits I and Exhibit II.

In consideration of the mutual promises, obligations, representations, and assurances in this Agreement, the Parties agree to the following:

1. **DEFINITIONS.** In addition to any other defined terms in this Agreement (e.g., “Agreement,” “County,” “Funding Unit,” “Party,” or “Parties,” etc.), the Parties agree that the following words and expressions used throughout this Agreement, whether used in the singular or plural, shall be defined, and interpreted as follows:
 - 1.1. **Agreement Documents** mean the following documents, which this Agreement includes and incorporates:
 - 1.1.1. Exhibit I: Financial Obligations
 - 1.1.2. Exhibit II: Scope of Services
 - 1.2. **Arraignment-Only Attorney(s)** means defense attorneys appointed for the purpose of representing incarcerated indigent defendants in the Oakland County Jail at their video arraignment on a criminal complaint and warrant, bench warrant, or probation violation Monday through Friday, and at their video arraignment on a criminal complaint and warrant on Saturday or Sunday for those funding units that participate in the 52nd District Court Local Administrative Order Weekend Arraignment Program. This does not include defense attorneys appointed to

represent defendants at any other stage of criminal proceedings following the arraignment on the complaint and warrant, either before judgment of sentence or following judgment of sentence.

- 1.3. **Claim(s)** mean any alleged losses, claims, complaints, demands for relief or damages, lawsuits, causes of action, proceedings, judgments, deficiencies, liabilities, penalties, litigation, costs, and expenses, including, but not limited to, reimbursement for reasonable attorney fees, witness fees, court costs, investigation expenses, litigation expenses, amounts paid in settlement, and/or other amounts or liabilities of any kind which are incurred by or asserted against County or Funding Unit, or for which County or Funding Unit may become legally and/or contractually obligated to pay or defend against, whether direct, indirect or consequential, whether based upon any alleged violation of the federal or the state constitution, any federal or state statute, rule, regulation, or any alleged violation of federal or state common law, whether any such claims are brought in law or equity, tort, contract, or otherwise, and/or whether commenced or threatened.
- 1.4. **County** means Oakland County, a constitutional and municipal Corporation, including, but not limited to, all of its departments, divisions, the Oakland County Board of Commissioners, elected and appointed officials, directors, board members, council members, commissioners, authorities, committees, commissions, employees, agents, volunteers, and/or any such persons' successors.
- 1.5. **County Employee** means without limitation, any employees, officers, managers, trustees, volunteers, attorneys, and representatives of County, including any person who was a County Employee at any time during the term of this Agreement but, for any reason, is no longer employed, appointed, or elected in that capacity. Arraignment-Only Attorneys as defined in Section 1.2 shall not be considered County employees.
- 1.6. **Day** shall be defined as any calendar day, which shall always begin at 12:00:00 a.m. and end at 11:59:59 p.m.
- 1.7. **Fiscal Year** means October 1 through the following September 30.
- 1.8. **Funding Unit** means the Township of Waterford, which is an entity created by state or local authority, or which is primarily funded by or through state or local authority, including, but not limited to, its council, its Board, its departments, its division, elected and appointed officials, directors, board members, council members, commissioners, authorities, committees, employees, agents, subcontractors, attorneys, volunteers, and/or any such persons' successors. For the purposes of this Agreement, Funding Unit includes any Michigan court when acting in concert with its Funding Unit to obtain indigent defense counsel services through the County.
- 1.9. **Funding Unit Employee** means any employees, officers, directors, members, managers, trustees, volunteers, attorneys, and representatives of Funding Unit, licensees, concessionaires, contractors, subcontractors, independent contractors, agents, and/or any such persons' successors or predecessors (whether such persons act or acted in their personal, representative or official capacities), and/or any persons acting by, through, under, or in concert with any of the above who have responsibility for the delivery of indigent defense services under this Agreement and/or the Michigan Indigent Defense Commission Act, MCL 780.981 *et seq.* "Funding Unit Employee" shall also include any person who was a Funding Unit Employee at any time during the term of this Agreement but, for any reason, is no longer employed, appointed, or elected in that capacity.
- 1.10. **Michigan Indigent Defense Commission** means the public body created by the Michigan Defense Commission Act, MCL 780.981 *et seq.*

1.11. **Points of Contact** mean the individuals designated by the Parties to act as primary and secondary contacts for communication and other purposes as described herein. Point of Contacts for the Parties are identified in Section. 22.

2. EFFECTIVE DATE AND DURATION OF THE AGREEMENT.

- 2.1. This Agreement, and/or any subsequent amendments, rescissions, waivers or releases to this Agreement, must be in writing and shall be effective when executed by both Parties with resolutions passed by the governing bodies of each Party except as otherwise specified below. The approval and terms of this Agreement and any amendments, except as specified below, shall be entered in the official minutes and proceedings of the governing bodies of each Party. An executed copy of this Agreement and any amendments shall also be filed by the office of the Clerk of the County with the Secretary of State.
- 2.2. This Agreement, and/or any subsequent amendments thereto, shall not become effective prior to the filing of this Agreement, and/or any possible subsequent amendments with the Michigan Secretary of State (MCL 124.510).
- 2.3. This Agreement takes effect on the date of March 2, 2020 and shall continue and be in effect through September 30, 2020 (the "Initial Term"). Upon expiration of the Initial Term, this Agreement shall automatically renew for a term from October 1st through September 30th of every future fiscal year, unless cancelled or terminated by any of the Parties pursuant to Section 15 of this Agreement.

3. COUNTY RESPONSIBILITIES.

- 3.1. Subject to the terms and conditions in this Agreement, and except as otherwise provided by law, County shall provide those services for Funding Unit as described in Exhibit II.
- 3.2. County agrees to establish this legal relationship in all contractual documents with Arraignment-Only Attorneys as provided in Exhibit II.
- 3.3. County shall invoice Funding Unit as provided in Exhibit I. The sum of charges invoiced to Funding Unit shall not exceed 65% of Funding Unit's FY2020 grant from the MIDC for the purposes of reimbursing County for providing indigent defense counsel to incarcerated defendants at video arraignments conducted in the Oakland County Jail.
- 3.4. The Parties intend, agree, and acknowledge that no services, other than those services described in this Agreement, shall or are otherwise required to be provided by the County for or to the Funding Unit. Additional services may be contracted by mutual agreement between the Parties.

4. FUNDING UNIT FINANCIAL/PAYMENT OBLIGATIONS.

- 4.1. As provided in Exhibit I, Funding Unit shall remit \$17,787 from Funding Unit's portion of the MIDC grant fund subcategory for reimbursements to County by March 2, 2020 and \$15,246 from Funding Unit's portion of the MIDC grant fund subcategory for reimbursements to County by May 29, 2020. Payment shall be sent along with a copy of the invoice to County as instructed on the invoices.
- 4.2. In future renewal fiscal years of this Agreement, County shall apply to the MIDC on behalf of Funding Unit for grant funding to cover the entire costs of providing Arraignment-Only attorneys in the Oakland County Jail and Funding Unit shall not apply to the MIDC for any grant funds to cover the costs of providing Arraignment-Only Attorneys in the Oakland County Jail. If County is awarded grant funds in future renewal years that cover the entire cost of providing representation to indigent defendants in the Oakland County Jail, Funding Unit will not have

financial or payment obligations under this Agreement and will not have to pay County the amount covered by County's awarded MIDC grant funds.

- 4.3. If Funding Unit, for any reason, fails to pay County any monies due and owing under this Agreement as described in Exhibit I, Funding Unit agrees that unless expressly prohibited by law, County or the Oakland County Treasurer, at their sole option, shall be entitled to set off the amount due past sixty (60) days from any other Public Body funds that are in County's possession for any reason, including but not limited to, the Oakland County Delinquent Tax Revolving Fund ("DTRF"), if applicable. Any setoff or retention of funds by County shall be deemed a voluntary assignment of the amount owed by Funding Unit to County. Funding Unit waives any Claims against County for any acts related specifically to County's offsetting or retaining of such amounts.
- 4.4. Unless there is a termination as provided for herein, Funding Unit's obligations set forth in this Section, shall be absolute and unconditional and shall not be affected by the occurrence of either Party's default of any term or condition of this Agreement, nor shall any other occurrence or event relieve, limit, or impair the obligation of Funding Unit to pay any such amount due and owing to County.
- 4.5. If County chooses not to exercise its right to setoff or if any setoff is insufficient to fully pay County any amounts due and owing County under this Agreement, County shall have the right to charge up to the then-maximum legal interest on any unpaid amount. Interest charges shall be in addition to any other amounts due to County under this Agreement. Interest charges shall be calculated using the daily unpaid balance method and accumulate until all outstanding amounts and accumulated interest are fully paid.
- 4.6. Nothing in this Section shall operate to limit County's right to pursue or exercise any other legal rights or remedies under this Agreement or at law against Funding Unit to secure payment of amounts due to County under this Agreement. The remedies in this Section shall be available to County on an ongoing and successive basis if Funding Unit at any time becomes delinquent in its payment. Notwithstanding any other term and condition in this Agreement, if County pursues any legal action in any court to secure its payment under this Agreement, Funding Unit agrees to pay all costs and expenses, including attorney fees and court costs, incurred by County in the collection of any amount owed by Funding Unit.
- 4.7. This Section shall not be interpreted as limiting Public Body's legal right to dispute whether the underlying amount retained by County was actually due and owing under this Agreement.

5. ASSURANCES AND WARRANTIES.

- 5.1. The Parties have taken all actions and secured all approvals necessary to authorize and complete this Agreement. The persons signing this Agreement on behalf of each Party have the legal authority to sign this Agreement and bind the Parties to the terms and conditions contained herein.
- 5.2. Each Party shall comply with all federal, state, and local ordinances, regulations, administrative rules and requirements applicable to its activities performed under this Agreement, including but not limited to laws relating to nondiscrimination and conflicts of interests.
- 5.3. Any and all County services set forth in this Agreement are provided on an "as-is" and "as-available" basis, without any warranty of any kind, to the maximum extent permitted by applicable law. County expressly further disclaims any and all warranties, of any kind, whether express or implied, including, without limitation, any implied warranties of merchantability, fitness for a particular purpose, or non-infringement and/or that any County services under this

Agreement will meet any of Funding Unit's needs or requirements, will be uninterrupted, timely, secure, error or risk free/or that any deficiencies in any County service. The entire risk arising out of the use of any and all County services herein remains at all times, with Funding Unit to the maximum extent permitted by law.

6. LIABILITY.

- 6.1. Each Party shall be responsible for any Claims made against that Party by a third party and for the acts or omissions of its employees arising under or related to this Agreement.
- 6.2. Except as provided for in Section 4.6, in any Claim that may arise from the performance of this Agreement, each Party shall seek its own legal representation and bear the costs associated with such representation, including judgment and attorney fees.
- 6.3. Except as otherwise provided in this Agreement, neither Party shall have any right under this Agreement or any legal principle to be indemnified or reimbursed by the other Party or any of its employees or agents in connection with any Claim.
- 6.4. This Agreement does not, and is not intended to, impair, divest, delegate or contravene any constitutional, statutory, and/or other legal right, privilege, power, obligation, duty or immunity of the Parties. Nothing in this Agreement shall be construed as a waiver of governmental immunity for either Party.

7. LIMITATION OF LIABILITY. In no event shall either Party be liable to the other Party or any other person, for any consequential, incidental, direct, indirect, special, and punitive or other damages arising out of this Agreement. In no event shall County be liable to Funding Unit for any claims arising out of the conduct of Arraignment-Only Attorneys.

8. DISPUTE RESOLUTION.

- 8.1. All disputes relating to the execution, interpretation, performance, or nonperformance of this Agreement involving or affecting the Parties may first be submitted to County's Point of Contact and Funding Unit's Point of Contact for possible resolution. County's Point of Contact and Funding Unit's Point of Contact may promptly meet and confer in an effort to resolve such dispute. The Points of Contact for each Party are set forth in Section 22.
- 8.2. If they cannot resolve the dispute in five (5) business days, the dispute may be submitted to the signatories of this Agreement or their successors in office. The signatories of this Agreement may meet promptly and confer in an effort to resolve such dispute.

9. NO IMPLIED WAIVER.

- 9.1. Absent a written waiver, no act, failure, or delay by a Party to pursue or enforce any rights or remedies under this Agreement shall constitute a waiver of those rights with regard to any existing or subsequent breach of this Agreement.
- 9.2. No waiver of any term, condition, or provision of this Agreement, whether by conduct or otherwise, in one or more instances, shall be deemed or construed as a continuing waiver of any term, condition, or provision of this Agreement.
- 9.3. No waiver by either Party shall subsequently affect its right to require strict performance of this Agreement.

10. AUDITING County agrees that financial records will be available upon request for review or audit by Funding Unit or other appropriate officials.

11. AGREEMENT INTERPRETATION. The Parties agree that performance under this Agreement will be conducted in compliance with all federal, Michigan, and local laws and regulations. This Agreement is made and entered into in the County of Oakland and in the State of Michigan. The language of all parts of this Agreement is intended to and under all circumstances to be construed as a whole according to its fair meaning and not construed strictly for or against any Party.

12. INDEPENDENT CONTRACTOR.

12.1. The Parties agree that at all times and for all purposes under the terms of this Agreement, the Arraignment-Only Attorneys legal status and relationship to County and Funding Unit shall be that of an Independent Contractor.

13. NO EMPLOYEE-EMPLOYER RELATIONSHIP. Nothing in this Agreement shall be construed as creating an employee-employer relationship between County and Funding Unit.

14. NO THIRD-PARTY BENEFICIARIES. Except as provided for the benefit of the Parties, this Agreement does not and is not intended to create any obligation, duty, promise, contractual right or benefit, right to indemnification, right to subrogation, and/or any other right in favor of any other person or entity.

15. TERMINATION OR CANCELLATION OF AGREEMENT.

15.1. If Funding Unit wants to terminate, for any reason, the automatic renewal of this Agreement that occurs on October 1st for any future fiscal year, Funding Unit shall provide County with a written notice of termination by June 1st stating that this Agreement will not be renewed and will be terminated effective the upcoming September 30th.

15.2. If County wants to terminate, for any reason, the automatic renewal of this Agreement that occurs on October 1st for any future fiscal year, County shall provide Funding Unit with a written notice of termination by July 1st stating that this Agreement will not be renewed and will be terminated effective the upcoming September 30th.

15.3. County may terminate or cancel this Agreement, in whole or in part, immediately if third-party funding for the Arraignment-Only Attorneys from the MIDC is reduced or terminated.

15.4. The Parties agree and acknowledge that either Party's decision to terminate and/or cancel this Agreement, or any one or more individual County services identified herein, shall not relieve the Funding Unit of payment obligation for any County services rendered prior to the effective date of any termination or cancellation of this Agreement. The provisions of this Subsection shall survive the termination, cancellation, and/or expiration of this Agreement.

16. RECORD RETENTION. The Parties agree to maintain records in accordance with state law. All records relative to this Agreement shall be available at any reasonable time for examination or audit by personnel authorized by law.

17. DELEGATION/SUBCONTRACT/ASSIGNMENT. Neither Party shall delegate, subcontract, and/or assign any obligations or rights under this Agreement without the prior written consent of the other Party.

18. FORCE MAJEURE. Each Party shall be excused from any obligations under this Agreement during the time and to the extent that a Party is prevented from performing due to causes beyond the Party's control, including, but not limited to, an act of God, war, fire, strike, labor disputes, civil disturbances, reduction of power source, or any other circumstances beyond the reasonable control of the affected Party. Reasonable notice shall be given to the other party of any such event.

19. **SEVERABILITY**. If a court of competent jurisdiction finds a term or condition of this Agreement to be illegal or invalid, then the term or condition shall be deemed severed from this Agreement. All other terms, conditions, and provisions of this Agreement shall remain in full force.
20. **PRECEDENCE OF DOCUMENTS**. In the event of a conflict between the terms of and conditions of any of the documents that comprise this Agreement, the terms in the Agreement shall prevail and take precedence over any allegedly conflicting terms in the Exhibits or other documents that comprise this Agreement.
21. **CAPTIONS**. The section and subsection numbers, captions, and any index to such sections and subsections contained in this Agreement are intended for the convenience of the reader and are not intended to have any substantive meaning. The numbers, captions, and indexes shall not be interpreted or be considered as part of this Agreement. Any use of the singular or plural number, any reference to the male, female, or neuter genders, and any possessive or non-possessive use in this Agreement shall be deemed the appropriate plurality, gender or possession as the context requires.
22. **NOTICES**. Notices given under this Agreement shall be in writing and shall be personally delivered, sent by express delivery service, certified mail, or first class U.S. mail postage prepaid, and addressed to the person listed below. Notice will be deemed given on the date when one of the following first occur: (1) the date of actual receipt; (2) the next business day when notice is sent express delivery service or personal delivery; or (3) three days after mailing first class or certified U.S. mail.
- 22.1. If Notice is sent to the County, it shall be addressed and sent to: Oakland County Corporation Counsel, 1200 North Telegraph, Pontiac, Michigan 48341.
- 22.2. If Notice is sent to the Funding Unit, it shall be addressed and sent to: Township of Waterford, 5200 Civic Center Drive, Waterford, Michigan 48320.
- 22.3. Either Party may change the address and/or individual to which Notice is sent by notifying the other Party in writing of the change.
23. **GOVERNING LAW**. This Agreement shall be governed, interpreted, and enforced by the laws of the State of Michigan without giving effect to its conflict of law principles.
24. **JURISDICTION AND VENUE**. Except as otherwise required by law or court rule, any action brought to enforce, interpret, or decide any Claim(s) arising under or related to this Agreement shall be brought in the Sixth Judicial Circuit Court of the State of Michigan, the 50th District Court of the State of Michigan, or the United States District Court for the Eastern District of Michigan, Southern Division, as dictated by the applicable jurisdiction of the court. Except as otherwise required by law or court rule, venue is proper in the courts set forth above. The choice of forum set forth above shall not be deemed to preclude the enforcement of any judgment obtained in such forum or taking action under this Agreement to enforce such judgment in any appropriate jurisdiction.
25. **ENTIRE AGREEMENT**. This Agreement sets forth the entire agreement between the Parties along with the Agreement Documents. In entering into this Agreement, Funding Unit acknowledges that it has not relied upon any prior or contemporaneous agreement, representation, warranty, or other statement by the County and/or any County Agent that is not expressly set forth in this Agreement, and that any and all such possible, perceived or prior agreements, representations, understandings, statements, negotiations, understandings and undertakings, whether written or oral, in any way concerning or related to the subject matter of this Agreement are fully and completely superseded by this Agreement.

The undersigned hereby acknowledges that he/she has been authorized by the Township of Waterford to execute this agreement on behalf of the Township of Waterford and hereby accepts and binds the Township of Waterford to the terms and conditions of this Agreement.

TOWNSHIP OF WATERFORD

BY: _____ **DATE:** _____

BY: _____ **DATE:** _____

The undersigned hereby acknowledges that he has been authorized by a resolution of the Oakland County Board of Commissioners to execute this Agreement on behalf of Oakland County, and hereby accepts and binds Oakland County to the terms and conditions of this Agreement.

THE COUNTY OF OAKLAND

BY: _____ **DATE:** _____

David T. Woodward
Chairperson, Oakland County Board of Commissioners

INTERLOCAL AGREEMENT
BETWEEN
OAKLAND COUNTY
AND
TOWNSHIP OF WATERFORD
FOR APPOINTMENTS OF ARRAIGNMENT-ONLY ATTORNEYS
IN THE OAKLAND COUNTY JAIL

EXHIBIT I: Financial and Reporting Obligations

Under the terms of the agreement, from the effective date of the Agreement through September 30, 2020, the Funding Unit agrees to pay the County \$33,033 which is 65% of the Funding Unit's portion of the MIDC grant fund subcategory for reimbursing County for providing the Arraignment-Only Attorney services conducted in the Oakland County Jail from the effective date of the Agreement through September 30, 2020.

County shall invoice Funding Unit for the 65% of the MIDC grant fund subcategory through two invoices in FY2020. Funding Unit shall remit \$17,787 from Funding Unit's portion of the MIDC grant fund subcategory for reimbursements described above to County by March 2, 2020. Funding Unit shall remit the last payment of \$15,246 from Funding Unit's portion of the MIDC grant fund subcategory for reimbursements described above to County by May 29, 2020.

In future renewal years of this Agreement, County shall apply to the MIDC on behalf of Funding Unit for grant funding to cover the entire costs of providing arraignment-only attorneys in the Oakland County Jail. If County is awarded MIDC grant funds in future renewal years that cover the entire cost of providing representation to indigent defendants in the Oakland County Jail, Funding Unit will not have to pay County the amount covered by County's awarded MIDC grant funds.

OAKLAND COUNTY INTERLOCAL AGREEMENT

BETWEEN

OAKLAND COUNTY

AND

TOWNSHIP OF WATERFORD

FOR APPOINTMENTS OF ARRAIGNMENT-ONLY ATTORNEYS

IN THE OAKLAND COUNTY JAIL

EXHIBIT II: Scope of Services

Under the terms of this Agreement, County will provide Arraignment-Only Attorneys beginning on or about March 2, 2020 Monday through Friday to represent Funding Unit's indigent misdemeanor and felony charged defendants housed in the Oakland County Jail at their video arraignments on criminal complaints and warrants, bench warrants or probation violations. For those Funding Units which participate in the 52nd District Court Local Administrative Order Weekend Arraignment Program, County will also provide Arraignment-Only Attorneys on all Saturdays and Sundays to represent those indigent misdemeanor and felony charged defendants housed at the Oakland County Jail at their arraignments on the complaint and warrant. County has the sole responsibility to recruit Arraignment-Only Attorneys and appoint Arraignment-Only Attorneys for arraignments conducted in the Oakland County Jail.

County will be responsible for determining if the Arraignment-Only Attorneys have the minimum education and training levels required by the Michigan Indigent Defense Commission. County will be responsible for completing background checks of Arraignment-Only Attorneys necessary for their presence in the Oakland County Jail. County in coordination with the Oakland County Sheriff's Office will provide basic safety and procedural training to Arraignment-Only Attorneys in the Oakland County Jail.

County will not have any direct control over the manner or means by which Arraignment-Only Attorneys perform their services and Arraignment-Only Attorneys shall exercise their own independent judgment while representing indigent defendants. County will not control or direct their professional duties as an indigent defense counsel under Standards promulgated by the Michigan Indigent Defense Commission. Any agreement with Arraignment-Only Attorneys shall expressly state that Arraignment-Only Attorneys are independent contractors obligated to pay income and self-employment taxes. County shall provide Arraignment-Only Attorneys with IRS Form 1099 as required by federal law.

County has the sole discretion to determine the staffing levels of Arraignment-Only Attorneys on any particular day during the term of the Agreement. County will coordinate with Funding Unit and other county funding units and schedule a daily time for Funding Unit to conduct arraignments via polycom from the Oakland County Jail.

FOR CASH ACCOUNT: 70000 01000

FOR: Uncleared

CHECK # CHECK DATE TYPE VENDOR NAME UNCLEARED CLEARED BATCH CLEAR DATE

287816	02/10/2020	PRINTED	011019 ARM PROGRAM	200.00			
287817	02/10/2020	PRINTED	011730 ARROW PRINTING	154.90			
287818	02/10/2020	PRINTED	013455 ALERT-ALL CORP	1,120.00			
287819	02/10/2020	PRINTED	013685 APPLIED IMAGING	862.88			
287820	02/10/2020	PRINTED	021079 BAKER & TAYLOR BOOKS	1,457.91			
287821	02/10/2020	PRINTED	021380 BILLS PLBG & SEWER SERV I	781.85			
287822	02/10/2020	PRINTED	023299 BELL & SONS	104.93			
287823	02/10/2020	PRINTED	023854 BUSY BODIES	1,218.00			
287824	02/10/2020	PRINTED	031117 PROBUILT CUSTOM BUILDING	400.00			
287825	02/10/2020	PRINTED	031150 CNO ENTERPRISES	100.00			
287826	02/10/2020	PRINTED	031387 MICHIGAN'S BEST DECK BUIL	100.00			
287827	02/10/2020	PRINTED	031527 M & J CONTRACTING	100.00			
287828	02/10/2020	PRINTED	031547 MGE CARPENTRY	200.00			
287829	02/10/2020	PRINTED	031635 PMG CONTRACTING	1,200.00			
287830	02/10/2020	PRINTED	031667 HALEY LAW FIRM	1,000.00			
287831	02/10/2020	PRINTED	031720 LARS DAVID INC	100.00			
287832	02/10/2020	PRINTED	031913 NATIONWIDE SIGN	100.00			
287833	02/10/2020	PRINTED	031935 LC CUSTOM HOMES	100.00			
287834	02/10/2020	PRINTED	032070 ROOF ONE, LLC	300.00			
287835	02/10/2020	PRINTED	032078 BBC CONSTRUCTION	100.00			
287836	02/10/2020	PRINTED	032142 WOODCRAFT DESIGN	100.00			
287837	02/10/2020	PRINTED	032160 CLASSIC REMODELING	100.00			
287838	02/10/2020	PRINTED	032171 SUMMIT PROPERTIES	1,200.00			
287839	02/10/2020	PRINTED	032332 BLACK & VEATCH	3,000.00			
287840	02/10/2020	PRINTED	032350 EASY EXIT EGRESS WINDOWS	100.00			
287841	02/10/2020	PRINTED	032438 BELLA DECKS LLC	100.00			
287842	02/10/2020	PRINTED	032461 4 EVER WATER TITE LLC	100.00			
287843	02/10/2020	PRINTED	032488 SQUARE FIT LLC	900.00			
287844	02/10/2020	PRINTED	032489 MAMMOTH CONSTRUCTION	100.00			
287845	02/10/2020	PRINTED	032570 PGC DEVELOPMENT LLC	100.00			
287846	02/10/2020	PRINTED	032720 JK CONSTRUCTION	600.00			
287847	02/10/2020	PRINTED	032726 POWER HOME SOLAR	500.00			
287848	02/10/2020	PRINTED	032908 BAZO DESIGN & IMAGING	600.00			
287849	02/10/2020	PRINTED	032909 AMERICAN MADE CONSTRUCTIO	100.00			
287850	02/10/2020	PRINTED	032910 RICHARD HYMAN BUILDERS IN	600.00			
287851	02/10/2020	PRINTED	032911 SPRINGERS CARPENTRY	100.00			
287852	02/10/2020	PRINTED	032912 K&K BUILDING	100.00			
287853	02/10/2020	PRINTED	032913 THOMAS WOOD	100.00			
287854	02/10/2020	PRINTED	032914 FULL HOUSE CONSTRUCTION	100.00			
287855	02/10/2020	PRINTED	032915 ROSEMARY HANAWAY	100.00			
287856	02/10/2020	PRINTED	032916 R.L BUILDING MODIFICATION	100.00			
287857	02/10/2020	PRINTED	032917 TIMOTHY MACH	100.00			
287858	02/10/2020	PRINTED	032918 CARLTON FREED	100.00			
287859	02/10/2020	PRINTED	032919 F&M CONSTRUCTION INC	100.00			
287860	02/10/2020	PRINTED	032920 ELEVATE	600.00			
287861	02/10/2020	PRINTED	032921 AMY VANKUREN	100.00			
287862	02/10/2020	PRINTED	032922 SHARON BEHREND	100.00			
287863	02/10/2020	PRINTED	032923 PAT MILKOVICH	100.00			
287864	02/10/2020	PRINTED	032924 ADAPTIVE ENVIRONMENTS INC	100.00			
287865	02/10/2020	PRINTED	032925 JAROD CONSTACE	100.00			
287866	02/10/2020	PRINTED	032926 GEORGE & SANDRA EWING	100.00			
287867	02/10/2020	PRINTED	032927 STEPHANIE LARSH	100.00			

FOR CASH ACCOUNT: 70000 01000

FOR: Uncleared

CHECK #	CHECK DATE	TYPE	VENDOR NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
287868	02/10/2020	PRINTED	032928 GERLAD POUNDERS	100.00			
287869	02/10/2020	PRINTED	032929 NEIL ADRIAN	100.00			
287870	02/10/2020	PRINTED	032930 KCL BUILDING & MAINTENANC	100.00			
287871	02/10/2020	PRINTED	032931 MICKEY'S CONSTRUCTION	100.00			
287872	02/10/2020	PRINTED	032932 SMOKE BUDDY HEAD SHOP	600.00			
287873	02/10/2020	PRINTED	033020 ALLIED SIGNS INC	100.00			
287874	02/10/2020	PRINTED	033070 RICHARD BARNES	100.00			
287875	02/10/2020	PRINTED	033609 NEW CREATION HOMES INC	100.00			
287876	02/10/2020	PRINTED	033766 SIGNAL USA LLC	100.00			
287877	02/10/2020	PRINTED	033884 WALLSIDE INC	100.00			
287878	02/10/2020	PRINTED	034339 JAMES ALBERT HILL	100.00			
287879	02/10/2020	PRINTED	034585 MARYGROVE AWNING CO	600.00			
287880	02/10/2020	PRINTED	035248 JACQUELYN BILLIE ELLSWORT	200.00			
287881	02/10/2020	PRINTED	035526 MIDWAY SIGNS INC	100.00			
287882	02/10/2020	PRINTED	035838 THERMAL SHIELD WINDOW & C	100.00			
287883	02/10/2020	PRINTED	037141 BRIAN CORNYN	100.00			
287884	02/10/2020	PRINTED	038038 PAT MCWILLIAMS	100.00			
287885	02/10/2020	PRINTED	038179 SIGN FABRICATORS	100.00			
287886	02/10/2020	PRINTED	038407 DIAMOND CREEK HOMES	100.00			
287887	02/10/2020	PRINTED	038493 BARATZ BUILDING & RENOVAT	100.00			
287888	02/10/2020	PRINTED	038802 MATTHEW FIORILLO	100.00			
287889	02/10/2020	PRINTED	038931 NORTHERN SIGN CO	100.00			
287890	02/10/2020	PRINTED	039472 ARANEAE INC	100.00			
287891	02/10/2020	PRINTED	039649 SAS SERVICES, INC	100.00			
287892	02/10/2020	PRINTED	039771 EVER-DRY OF SOUTHEASTERN	100.00			
287893	02/10/2020	PRINTED	039856 NEW DESIGN INC	100.00			
287894	02/10/2020	PRINTED	039944 HOME INSPECTION PLUS	200.00			
287895	02/10/2020	PRINTED	039951 FOUNDATION SYSTEMS OF MIC	100.00			
287896	02/10/2020	PRINTED	041192 CDW GOVERNMENT INC	344.55			
287897	02/10/2020	PRINTED	041460 CLYDES FRAME & WHEEL SERV	622.13			
287898	02/10/2020	PRINTED	041495 CMP DISTRIBUTORS INC	994.75			
287899	02/10/2020	PRINTED	043952 CYNERGY PRODUCTS	1,246.84			
287900	02/10/2020	PRINTED	044234 CHAMPAGNE ENGRAVING	30.00			
287901	02/10/2020	PRINTED	051038 DC DENTAL	46.40			
287902	02/10/2020	PRINTED	051445 DLZ MICHIGAN, INC	23,305.50			
287903	02/10/2020	PRINTED	053389 LUNGHAMER GMC INC	105.40			
287904	02/10/2020	PRINTED	053612 DOVER & COMPANY, LLC	681.23			
287905	02/10/2020	PRINTED	053756 DRUG SCREENS PLUS	159.00			
287906	02/10/2020	PRINTED	081015 F&M MECHANICAL SERVICES L	1,579.00			
287907	02/10/2020	PRINTED	083437 FIRST DUE FIRE SUPPLY	642.50			
287908	02/10/2020	PRINTED	083452 SUBURBAN FORD OF WATERFOR	2,084.43			
287909	02/10/2020	PRINTED	083836 KENNETH E FUERST	60.00			
287910	02/10/2020	PRINTED	093025 GALE/CENGAGE LEARNING	167.19			
287911	02/10/2020	PRINTED	093451 GLOBAL OFFICE SOLUTIONS	6,880.81			
287912	02/10/2020	PRINTED	093863 GREAT LAKES WATER AUTHORI	2,961.90			
287913	02/10/2020	PRINTED	103143 HALLAHAN & ASSOCIATES, PC	5,388.85			
287914	02/10/2020	PRINTED	103252 KATHY HEPLER	60.00			
287915	02/10/2020	PRINTED	111002 INFOGROUP	7,000.00			
287916	02/10/2020	PRINTED	113542 INGRAM LIBRARY SERVICES	19.56			
287917	02/10/2020	PRINTED	113551 NICHOLS PAPER & SUPPLY CO	1,084.92			
287918	02/10/2020	PRINTED	113591 INNOVYZE INCORPORATED	22,660.00			
287919	02/10/2020	PRINTED	121011 J&B MEDICAL SUPPLY	4,468.66			

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CHECK #	CHECK DATE	TYPE	VENDOR NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
287920	02/10/2020	PRINTED	141575 KOTZ HEATING, COOLING & P	462.00			
287921	02/10/2020	PRINTED	143228 JJ KELLER & ASSOCIATES IN	918.00			
287922	02/10/2020	PRINTED	143601 KONECRANES INC	2,655.05			
287923	02/10/2020	PRINTED	151011 LTM AUTO TRUCK AND TRAILER	3,959.80			
287924	02/10/2020	PRINTED	153109 LAKES AREA MARTIAL ARTS	372.50			
287925	02/10/2020	PRINTED	153367 LIBRARY NETWORK, THE	9,967.50			
287926	02/10/2020	PRINTED	153604 HAROLD J LOVE, PLLC	3,250.00			
287927	02/10/2020	PRINTED	161029 ELECTIONSOURCE	318.00			
287928	02/10/2020	PRINTED	161700 MMRMA UNDERWRITING DEPT	504,884.00			
287929	02/10/2020	PRINTED	163095 MAZZA AUTO PARTS INC	698.53			
287930	02/10/2020	PRINTED	163368 MIDWEST COLLABORATIVE FOR	4,275.00			
287931	02/10/2020	PRINTED	163866 MUNICIPAL EMERGENCY SERVI	4,909.18			
287932	02/10/2020	PRINTED	174478 STATE OF MICHIGAN	75.00			
287933	02/10/2020	PRINTED	183052 NAPA AUTO PARTS	44.10			
287934	02/10/2020	PRINTED	183269 SPRINT SOLUTIONS	9.30			
287935	02/10/2020	PRINTED	183290 NEW BUSINESS INC	320.00			
287936	02/10/2020	PRINTED	183578 NORTH ELECTRIC SUPPLY CO	260.00			
287937	02/10/2020	PRINTED	183952 NYE UNIFORM COMPANY	4,424.05			
287938	02/10/2020	PRINTED	193017 OAKWAY MUTUAL AID ASSOCIA	7,249.00			
287939	02/10/2020	PRINTED	193882 OVERDRIVE, INC.	156.46			
287940	02/10/2020	PRINTED	204040 OAKLAND COUNTY TREASURER	744.00			
287941	02/10/2020	PRINTED	204040 OAKLAND COUNTY TREASURER	1,715.47			
287942	02/10/2020	PRINTED	204040 OAKLAND COUNTY TREASURER	17,927.50			
287943	02/10/2020	PRINTED	204620 OAKLAND COUNTY PARKS & RE	525.00			
287944	02/10/2020	PRINTED	211220 MCLAREN OAKLAND	800.00			
287945	02/10/2020	PRINTED	211460 PLANTE & MORAN PLLC	1,450.00			
287946	02/10/2020	PRINTED	213094 AL PAVLISH	60.00			
287947	02/10/2020	PRINTED	213211 PERCEPTIVE CONTROLS INC	189.00			
287948	02/10/2020	PRINTED	213251 LAURA PETRUSHA	60.00			
287949	02/10/2020	PRINTED	213287 PREMIER SAFETY	641.48			
287950	02/10/2020	PRINTED	213395 BOB PIGGOT	60.00			
287951	02/10/2020	PRINTED	213566 COFFEE BREAK INC	33.25			
287952	02/10/2020	PRINTED	213723 PROGRESSIVE AE	5,000.00			
287953	02/10/2020	PRINTED	213771 PRONUNCIATOR	1,800.00			
287954	02/10/2020	PRINTED	227578 PATRICIA SANDWEG	54.00			
287955	02/10/2020	PRINTED	241008 RKA PETROLEUM COMPANIES,	1,208.70			
287956	02/10/2020	PRINTED	243206 RECORDED BOOKS LLC	296.68			
287957	02/10/2020	PRINTED	243254 REGIONAL ALLIANCE FOR FIR	1,400.00			
287958	02/10/2020	PRINTED	243645 LISA ROCHFORD	290.00			
287959	02/10/2020	PRINTED	243664 ROSE PEST SOLUTIONS	48.00			
287960	02/10/2020	PRINTED	251150 SCOTTS LOCK & KEY SHOP	23.00			
287961	02/10/2020	PRINTED	251238 SERVICE HEATING & PLUMBING	2,064.67			
287962	02/10/2020	PRINTED	251361 SIGNS NOW	680.54			
287963	02/10/2020	PRINTED	253023 ST JOSEPH MERCY-OAKLAND	280.00			
287964	02/10/2020	PRINTED	253160 SCRAMBLIN FEEDS	351.50			
287965	02/10/2020	PRINTED	253453 SLICK SHIRTS SCREEN PRINT	779.79			
287966	02/10/2020	PRINTED	253512 SMART START MICHIGAN	3,657.00			
287967	02/10/2020	PRINTED	263243 TELEFLEX LLC	2,215.50			
287968	02/10/2020	PRINTED	263255 TESTAMERICA LABORATORIES	286.80			
287969	02/10/2020	PRINTED	273533 UNIFIRST CORP	919.11			
287970	02/10/2020	PRINTED	283007 VANCES OUTDOORS, INC	290.00			
287971	02/10/2020	PRINTED	283215 VENDTEK WHOLESALE EQUIPTM	255.00			

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CHECK #	CHECK DATE	TYPE	VENDOR NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
287972	02/10/2020	PRINTED	291365 PRAXAIR DISTRIBUTION INC	34.40			
287973	02/10/2020	PRINTED	291365 PRAXAIR DISTRIBUTION INC	157.97			
287974	02/10/2020	PRINTED	293016 WATERFORD AREA CHAMBER OF	195.00			
287975	02/10/2020	PRINTED	304456 WATERFORD TOWNSHIP DEVELO	100.00			
287976	02/10/2020	PRINTED	500246 MI MED INC	2,875.20			
			161 CHECKS	CASH ACCOUNT TOTAL	705,370.12		.00

Advance Check Already Marked.
 Jan -> Feb 6 2020

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CHECK #	CHECK DATE	TYPE	VENDOR NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
287726	01/28/2020	PRINTED	011790 AT&T	1,400.75			
287727	01/28/2020	PRINTED	023587 HILLARIE F BOETTGER PLLC	350.00			
287728	01/28/2020	PRINTED	031840 TGA ASSOCIATES INC	400.00			
287729	01/28/2020	PRINTED	032589 MILFORD CONTRACTING	100.00			
287730	01/28/2020	PRINTED	033721 ROSS HOMES INC	100.00			
287731	01/28/2020	PRINTED	033723 ROYAL OAK & BIRMINGHAM AW	100.00			
287732	01/28/2020	PRINTED	034010 BACKMEIER CONTRACTING	600.00			
287733	01/28/2020	PRINTED	036122 MARC & JODI BOHN	100.00			
287734	01/28/2020	PRINTED	036618 MNC & ANC PROFESSIONAL SE	100.00			
287736	01/28/2020	PRINTED	039771 EVER-DRY OF SOUTHEASTERN	300.00			
287737	01/28/2020	PRINTED	039951 FOUNDATION SYSTEMS OF MIC	300.00			
287738	01/28/2020	PRINTED	039951 FOUNDATION SYSTEMS OF MIC	100.00			
287739	01/28/2020	PRINTED	043626 CONSUMERS ENERGY	11,597.46			
287740	01/28/2020	PRINTED	053215 DELTA DENTAL	44,439.23			
287741	01/28/2020	PRINTED	053253 DTE ENERGY	20,403.97			
287742	01/28/2020	PRINTED	073317 SCOTT GOOD	107.25			
287743	01/28/2020	PRINTED	073398 TORI HEGLIN	34.50			
287744	01/28/2020	PRINTED	073674 CHRIS PETRES	101.50			
287745	01/28/2020	PRINTED	073825 JACK SUTHERLAND	107.25			
287746	01/28/2020	PRINTED	074918 JOE OKAIYE	34.50			
287747	01/28/2020	PRINTED	083466 FLEX ADMINISTRATORS INC	640.50			
287748	01/28/2020	PRINTED	083751 FRAIBERG & PERNIE PLLC	300.00			
287749	01/28/2020	PRINTED	093607 GOODBYE GEESE	1,000.00			
287750	01/28/2020	PRINTED	093861 JOSEPH P GRIMM	150.00			
287751	01/28/2020	PRINTED	103584 JOHN H HOLMES	700.00			
287752	01/28/2020	PRINTED	123042 KEVIN JANULIS	700.00			
287753	01/28/2020	PRINTED	163282 MEDMUTUAL LIFE	4,527.31			
287754	01/28/2020	PRINTED	183286 NEOFUNDS	1,154.89			
287755	01/28/2020	PRINTED	193456 DOUGLAS K OLIVER	525.00			
287756	01/28/2020	PRINTED	204547 OAKLAND COUNTY CLERK ASSO	75.00			
287757	01/28/2020	PRINTED	213454 NANCY PLASTERER	1,050.00			
287758	01/28/2020	PRINTED	251035 SAMS CLUB DIRECT	626.44			
287759	01/28/2020	PRINTED	254851 STANDARD INSURANCE COMPAN	6,548.30			
287760	01/28/2020	PRINTED	273570 UNITED HEALTH CARE	88.96			
287761	01/31/2020	PRINTED	013666 APOLLO FIRE APPARATUS	4,092.73			
287762	01/31/2020	PRINTED	014474 ALCOHOL DRUG ADMINISTRATI	1,942.00			
287763	01/31/2020	PRINTED	021380 BILLS PLBG & SEWER SERV I	185.00			
287764	01/31/2020	PRINTED	044062 CONTROLNET, LLC	6,000.00			
287765	01/31/2020	PRINTED	044214 CHARRON SERVICES	120.00			
287766	01/31/2020	PRINTED	051445 DLZ MICHIGAN, INC	280.00			
287767	01/31/2020	PRINTED	053072 DR DANULOFF	812.00			
287768	01/31/2020	PRINTED	064008 ELECTRONIC MONITORING SYS	345.75			
287769	01/31/2020	PRINTED	073855 JENNIFER THOM	31.40			
287770	01/31/2020	PRINTED	083622 FOSTER SPECIALTY FLOORS	5,122.50			
287771	01/31/2020	PRINTED	093833 GUARDIAN ENVIRONMENTAL SE	6,954.29			
287772	01/31/2020	PRINTED	093840 LOOMIS FARGO & CO	1,074.48			
287773	01/31/2020	PRINTED	093862 GRANITE INLINER, LLC	89,892.00			
287774	01/31/2020	PRINTED	123023 JAIL ALTERNATIVES FOR MIC	98.00			
287775	01/31/2020	PRINTED	123047 ROBERT JAVERY	13.72			
287776	01/31/2020	PRINTED	161140 MCNABS HARDWARE	71.23			
287777	01/31/2020	PRINTED	163476 MIDWEST TAPE	1,062.98			
287778	01/31/2020	PRINTED	163502 MISTRAS GROUP	2,300.00			

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CHECK #	CHECK DATE	TYPE	VENDOR NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
287779	01/31/2020	PRINTED	193074 MEDIA NEWS-21CM ADVERTISI	106.95			
287780	01/31/2020	PRINTED	193277 OFFICIAL PAYMENTS CORP	154.41			
287781	01/31/2020	PRINTED	211220 MCLAREN OAKLAND	420.00			
287782	01/31/2020	PRINTED	233852 QUALITY FIRE SERVICES	27.50			
287783	01/31/2020	PRINTED	243040 PENGUIN RANDOM HOUSE LLC	23.25			
287784	01/31/2020	PRINTED	263249 TELECOM TECHNICIANS, INC	1,336.49			
287785	01/31/2020	PRINTED	274540 UNEMPLOYMENT INSURANCE AG	13,998.69			
287786	01/31/2020	PRINTED	500228 KIESLER POLICE SUPPLY	4,998.00			
287787	02/04/2020	PRINTED	023272 MARCEL BENAVIDES	300.00			
287788	02/04/2020	PRINTED	043626 CONSUMERS ENERGY	9,339.75			
287789	02/04/2020	PRINTED	044220 CHASE CARD SERVICES	130.17			
287790	02/04/2020	PRINTED	053253 DTE ENERGY	17,388.39			
287791	02/04/2020	PRINTED	073110 CHESTER BARTLE	649.96			
287792	02/04/2020	PRINTED	073352 WILLIAM HIMMELSPACH	100.00			
287793	02/04/2020	PRINTED	073352 SALLY HIMMELSPACH	100.00			
287794	02/04/2020	PRINTED	073698 ROBERT REYNOLDS	100.00			
287795	02/04/2020	PRINTED	073866 EMILLIE TARSIN	249.15			
287796	02/04/2020	PRINTED	093026 RICHARD GALAT	300.00			
287797	02/04/2020	PRINTED	093702 JUDITH GRACEY	100.00			
287798	02/04/2020	PRINTED	103584 JOHN H HOLMES	300.00			
287799	02/04/2020	PRINTED	103644 JULIE HOFLEY	50.00			
287800	02/04/2020	PRINTED	123048 SHATHA JAZRAWI	393.55			
287801	02/04/2020	PRINTED	143400 PRIYA KIKANI	93.26			
287802	02/04/2020	PRINTED	161067 ROBERT MCCORMICK	800.00			
287803	02/04/2020	PRINTED	163475 MECRA	130.00			
287804	02/04/2020	PRINTED	163508 FERGUSON WATERWORKS #3386	4,575.02			
287805	02/04/2020	PRINTED	174165 MICHIGAN DISTRICT JUDGES	450.00			
287806	02/04/2020	PRINTED	183286 NEOFUNDS	77.81			
287807	02/04/2020	PRINTED	204322 OAKLAND MACOMB FIRE PREVE	525.00			
287808	02/04/2020	PRINTED	213057 B JILL PALULIAN	161.31			
287809	02/04/2020	PRINTED	213608 SCOTT POWERS	300.00			
287810	02/04/2020	PRINTED	243228 STELLA REYES	180.00			
287811	02/04/2020	PRINTED	243662 ROOF ONE, LLC	14,250.00			
287812	02/04/2020	PRINTED	254845 BRADLEY STOUT	800.00			
287813	02/04/2020	PRINTED	271016 US BANK EQUIPMENT FINANCE	125.82			
287814	02/04/2020	PRINTED	291320 WICKLANDER-ZULAWSKI & ASS	2,385.00			
287815	02/04/2020	PRINTED	293355 WILBUR WHITE JR	2,550.00			
			89 CHECKS	CASH ACCOUNT TOTAL	297,230.37	.00	

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CHECK #	CHECK DATE	TYPE	VENDOR NAME	UNCLEARED	CLEARED	BATCH	CLER DATE
288062	02/24/2020	PRINTED	011015 TRACTION	27.26			
288063	02/24/2020	PRINTED	011021 ADI	1,418.97			
288064	02/24/2020	PRINTED	011730 ARROW PRINTING	113.80			
288065	02/24/2020	PRINTED	013537 SCHMIDT, ISGRIGG, ANDERSO	906.70			
288066	02/24/2020	PRINTED	013666 APOLLO FIRE APPARATUS	474.01			
288067	02/24/2020	PRINTED	013685 APPLIED IMAGING	2,483.44			
288068	02/24/2020	PRINTED	013690 AQUASIGHT	1,800.00			
288069	02/24/2020	PRINTED	013764 SANDRA ASPINALL	612.68			
288070	02/24/2020	PRINTED	014472 ALPHA DIRECTIONAL BORING	1,000.00			
288071	02/24/2020	PRINTED	014474 ALCOHOL DRUG ADMINISTRATI	2,245.00			
288072	02/24/2020	PRINTED	021079 BAKER & TAYLOR BOOKS	3,534.11			
288073	02/24/2020	PRINTED	021380 BILLS PLBG & SEWER SERV I	449.85			
288074	02/24/2020	PRINTED	023058 BANK OF NEW YORK MELLON,N	782,517.88			
288075	02/24/2020	PRINTED	023123 JUDY BALDAK	119.00			
288076	02/24/2020	PRINTED	023128 MOHAMMAD HASSAN ARGHAVANI	250.00			
288077	02/24/2020	PRINTED	023733 BREATHING AIR SYSTEMS	584.10			
288078	02/24/2020	PRINTED	023802 BREAKOUT, INC	150.00			
288079	02/24/2020	PRINTED	031095 MILES BRADLEY BLDG & REMD	100.00			
288080	02/24/2020	PRINTED	031387 MICHIGAN'S BEST DECK BUIL	100.00			
288081	02/24/2020	PRINTED	031547 MGE CARPENTRY	100.00			
288082	02/24/2020	PRINTED	031631 PHILLIPS SIGN & DESIGN	100.00			
288083	02/24/2020	PRINTED	031748 SIGN-A-RAMA	100.00			
288084	02/24/2020	PRINTED	032350 EASY EXIT EGRESS WINDOWS	100.00			
288085	02/24/2020	PRINTED	032438 BELLA DECKS LLC	100.00			
288086	02/24/2020	PRINTED	032489 MAMMOTH CONSTRUCTION	100.00			
288087	02/24/2020	PRINTED	032570 PGC DEVELOPMENT LLC	100.00			
288088	02/24/2020	PRINTED	032660 SES RESTORATION	100.00			
288089	02/24/2020	PRINTED	032665 TODD COLLOM	100.00			
288090	02/24/2020	PRINTED	032681 ANTHONY PETTY	100.00			
288091	02/24/2020	PRINTED	032756 ALL RENOVATIONS COMPANY L	100.00			
288092	02/24/2020	PRINTED	032786 DJ DEMOLITION	100.00			
288093	02/24/2020	PRINTED	032933 SPRAY BOOTH PRODUCTS	600.00			
288094	02/24/2020	PRINTED	032934 DANIEL DEMSKI	100.00			
288095	02/24/2020	PRINTED	032935 DEYONKER WINDOW & DOOR	100.00			
288096	02/24/2020	PRINTED	032936 JEFF LAWRENCE CARPENTRY	100.00			
288097	02/24/2020	PRINTED	032937 EUROCRAPT BUILDERS & REMO	100.00			
288098	02/24/2020	PRINTED	032938 JEFF POHL	100.00			
288099	02/24/2020	PRINTED	032939 DAVACO	600.00			
288100	02/24/2020	PRINTED	032940 TOM ROTHERMEL	100.00			
288101	02/24/2020	PRINTED	032941 R&T CONSTRUCTION	100.00			
288102	02/24/2020	PRINTED	033609 NEW CREATION HOMES INC	1,704.00			
288103	02/24/2020	PRINTED	033721 ROSS HOMES INC	100.00			
288104	02/24/2020	PRINTED	034297 HAROLD FURLONG	200.00			
288105	02/24/2020	PRINTED	034399 HURON SIGN CO	100.00			
288106	02/24/2020	PRINTED	034728 RYAN CONSTRUCTION	600.00			
288107	02/24/2020	PRINTED	036131 BILL CARR SIGNS	100.00			
288108	02/24/2020	PRINTED	036163 CONSOLIDATED DEVELOPMENT	100.00			
288109	02/24/2020	PRINTED	038244 FINISHED BASEMENTS PLUS L	100.00			
288110	02/24/2020	PRINTED	038942 EGRESS SOLUTIONS INC	100.00			
288111	02/24/2020	PRINTED	039472 ARANAE INC	100.00			
288112	02/24/2020	PRINTED	039856 NEW DESIGN INC	100.00			
288113	02/24/2020	PRINTED	039944 HOME INSPECTION PLUS	500.00			

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CHECK #	CHECK DATE	TYPE	VENDOR NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
288114	02/24/2020	PRINTED	039951 FOUNDATION SYSTEMS OF MIC	500.00			
288115	02/24/2020	PRINTED	041192 CDW GOVERNMENT INC	1,199.47			
288116	02/24/2020	PRINTED	043365 CINCINNATI TIME SYSTEMS	870.00			
288117	02/24/2020	PRINTED	043381 CITY OF PONTIAC	1,499.84			
288118	02/24/2020	PRINTED	043952 CYNERGY PRODUCTS	4,982.94			
288119	02/24/2020	PRINTED	044022 COUGAR SALES & RENTAL	994.95			
288120	02/24/2020	PRINTED	044214 CHARRON SERVICES	90.00			
288121	02/24/2020	PRINTED	051007 DTE ENERGY	73,431.80			
288122	02/24/2020	PRINTED	051204 DELUXE BUSINES CHECKS & S	149.82			
288123	02/24/2020	PRINTED	051445 DLZ MICHIGAN, INC	2,657.00			
288124	02/24/2020	PRINTED	053389 LUNGHAMER GMC INC	1,162.92			
288125	02/24/2020	PRINTED	053963 INACOMP	17,567.98			
288126	02/24/2020	PRINTED	063021 EASTERN OIL CO	867.29			
288127	02/24/2020	PRINTED	063025 EJ USA, INC	10,536.05			
288128	02/24/2020	PRINTED	063028 EASTERN MICHIGAN UNIVERSI	6,500.00			
288129	02/24/2020	PRINTED	063476 ELECTROCOMM-MICHIGAN, INC	130.00			
288130	02/24/2020	PRINTED	063482 EMERGENCY MEDICAL PRODUCT	70.35			
288131	02/24/2020	PRINTED	063941 EXCEL INDUSTRIAL ELECTRON	1,324.00			
288132	02/24/2020	PRINTED	063951 KATHRYN R EYMAN	25.00			
288133	02/24/2020	PRINTED	064008 ELECTRONIC MONITORING SYS	735.50			
288134	02/24/2020	PRINTED	083217 FEDERAL RESOURCES SUPPLY	164.00			
288135	02/24/2020	PRINTED	083452 SUBURBAN FORD OF WATERFOR	3,141.35			
288136	02/24/2020	PRINTED	083580 FORSTER BROTHERS	124.00			
288137	02/24/2020	PRINTED	083753 SHARRON FRERICKS	50.00			
288138	02/24/2020	PRINTED	093385 GIRL SCOUT TROOP 75706	150.00			
288139	02/24/2020	PRINTED	093451 GLOBAL OFFICE SOLUTIONS	8,174.64			
288140	02/24/2020	PRINTED	093603 GORNO FORD	18,010.00			
288141	02/24/2020	PRINTED	093705 GRAINGER	3,429.45			
288142	02/24/2020	PRINTED	101950 HYDRO CORP	7,132.00			
288143	02/24/2020	PRINTED	103031 HALT FIRE INC	1,544.21			
288144	02/24/2020	PRINTED	103641 HOME CONFINEMENT	300.00			
288145	02/24/2020	PRINTED	113542 INGRAM LIBRARY SERVICES	71.50			
288146	02/24/2020	PRINTED	113551 NICHOLS PAPER & SUPPLY CO	1,011.48			
288147	02/24/2020	PRINTED	113701 IRON MOUNTAIN	470.01			
288148	02/24/2020	PRINTED	121011 J&B MEDICAL SUPPLY	6,379.41			
288149	02/24/2020	PRINTED	121135 JC WATER TREATMENT INC	212.50			
288150	02/24/2020	PRINTED	123023 JAIL ALTERNATIVES FOR MIC	48.00			
288151	02/24/2020	PRINTED	143707 KRONOS SAASHR, INC	608.97			
288152	02/24/2020	PRINTED	151011 LTM AUTO TRUCK AND TRAILER	963.50			
288153	02/24/2020	PRINTED	151211 LGC GLOBAL ENERGY FM LLC	11,049.74			
288154	02/24/2020	PRINTED	153068 OSCAR W LARSON CO	2,916.00			
288155	02/24/2020	PRINTED	153240 LESLIE TIRE	39.00			
288156	02/24/2020	PRINTED	161027 MSDS ONLINE	2,498.00			
288157	02/24/2020	PRINTED	161029 ELECTIONSOURCE	37,470.00			
288158	02/24/2020	PRINTED	161570 MONTGOMERY & SONS INC	471.55			
288159	02/24/2020	PRINTED	163371 MICHIGAN COURT SERV INC	66.00			
288160	02/24/2020	PRINTED	163489 DAVE MILLER LLC	317.00			
288161	02/24/2020	PRINTED	163508 FERGUSON WATERWORKS #3386	1,612.80			
288162	02/24/2020	PRINTED	163866 MUNICIPAL EMERGENCY SERVI	198.18			
288163	02/24/2020	PRINTED	174291 STATE OF MICHIGAN	500.00			
288164	02/24/2020	PRINTED	174431 STATE OF MICHIGAN	123.30			
288165	02/24/2020	PRINTED	183021 NATIONAL TRAILS	721.00			

FOR CASH ACCOUNT: 70000 01000

FOR: Uncleared

CHECK # CHECK DATE TYPE VENDOR NAME UNCLEARED CLEARED BATCH CLEAR DATE

CHECK #	CHECK DATE	TYPE	VENDOR NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
288166	02/24/2020	PRINTED	183289 NETWORKFLEET INC	1,333.75			
288167	02/24/2020	PRINTED	183621 NONVERBAL SCIENCE LLC	200.00			
288168	02/24/2020	PRINTED	183952 NYE UNIFORM COMPANY	7,277.13			
288169	02/24/2020	PRINTED	193074 MEDIA NEWS-21CM ADVERTISI	51.20			
288170	02/24/2020	PRINTED	193273 OFFICE DEPOT	62.67			
288171	02/24/2020	PRINTED	193537 ONE STOP TRUCK CRANE & FL	1,574.14			
288172	02/24/2020	PRINTED	193706 ORKIN	223.98			
288173	02/24/2020	PRINTED	204040 OAKLAND COUNTY TREASURER	300.00			
288174	02/24/2020	PRINTED	204040 OAKLAND COUNTY TREASURER	384.00			
288175	02/24/2020	PRINTED	204040 OAKLAND COUNTY TREASURER	400.00			
288176	02/24/2020	PRINTED	204040 OAKLAND COUNTY TREASURER	30,032.63			
288177	02/24/2020	PRINTED	204040 OAKLAND COUNTY TREASURER	31,421.47			
288178	02/24/2020	PRINTED	204040 OAKLAND COUNTY TREASURER	308,397.15			
288179	02/24/2020	PRINTED	204505 OAKLAND SCHOOLS	49.45			
288180	02/24/2020	PRINTED	204665 OAKLAND COUNTY TREASURER	813,958.63			
288181	02/24/2020	PRINTED	204860 ROAD COMMISSION FOR	1,935.27			
288182	02/24/2020	PRINTED	211004 POWERBRITE OF MICHIGAN IN	185.35			
288183	02/24/2020	PRINTED	211220 MCLAREN OAKLAND	230.00			
288184	02/24/2020	PRINTED	213566 COFFEE BREAK INC	68.50			
288185	02/24/2020	PRINTED	213772 PRO-TECH SALES	4,876.00			
288186	02/24/2020	PRINTED	222869 LORRAINE HOTCHKISS	79.00			
288187	02/24/2020	PRINTED	227579 MARGARET NEUMANN	56.00			
288188	02/24/2020	PRINTED	234472 BLOOM ROOFING SYSTEMS INC	910.90			
288189	02/24/2020	PRINTED	241008 RKA PETROLEUM COMPANIES,	1,019.49			
288190	02/24/2020	PRINTED	243206 RECORDED BOOKS LLC	430.29			
288191	02/24/2020	PRINTED	243254 REGIONAL ALLIANCE FOR FIR	100.00			
288192	02/24/2020	PRINTED	243661 DANIEL J ROSA	185.00			
288193	02/24/2020	PRINTED	251110 S&B PLBG & SEWER SERV INC	2,011.59			
288194	02/24/2020	PRINTED	253057 SANALAC COUNTY COURT	845.00			
288195	02/24/2020	PRINTED	253231 SECURITY DESIGN INC	3,850.00			
288196	02/24/2020	PRINTED	253293 HOWARD L SHIFMAN, P.C.	10,000.00			
288197	02/24/2020	PRINTED	253347 SHORELINE CHARTERS & TOUR	8,739.38			
288198	02/24/2020	PRINTED	253954 SYMBOL ARTS	120.00			
288199	02/24/2020	PRINTED	254826 STARR AUTO GLASS	575.00			
288200	02/24/2020	PRINTED	254843 STAR EMS	2,107.16			
288201	02/24/2020	PRINTED	261360 TIA	3,000.00			
288202	02/24/2020	PRINTED	263255 TESTAMERICA LABORATORIES	239.00			
288203	02/24/2020	PRINTED	263582 THOMSON REUTERS-WEST	427.81			
288204	02/24/2020	PRINTED	263749 TRANSACT TECHNOLOGIES INC	142.42			
288205	02/24/2020	PRINTED	271016 US BANK EQUIPMENT FINANCE	1,894.27			
288206	02/24/2020	PRINTED	271765 USA BLUEBOOK	543.88			
288207	02/24/2020	PRINTED	273533 UNIFIRST CORP	941.99			
288208	02/24/2020	PRINTED	273542 UNIQUE MGMT SERVICES INC	98.45			
288209	02/24/2020	PRINTED	283242 VERIZON WIRELESS	225.30			
288210	02/24/2020	PRINTED	283242 VERIZON WIRELESS	877.84			
288211	02/24/2020	PRINTED	283243 AMERICAN MESSAGING	151.39			
288212	02/24/2020	PRINTED	291365 PRAXAIR DISTRIBUTION INC	269.93			
288213	02/24/2020	PRINTED	291365 PRAXAIR DISTRIBUTION INC	276.09			
288214	02/24/2020	PRINTED	293270 JOYCE WEFEL	31.35			
288215	02/24/2020	PRINTED	293426 STACY WILLIAMS	40.00			
288216	02/24/2020	PRINTED	304930 WATERFORD TOWNSHIP DPW	8,623.58			
288217	02/24/2020	PRINTED	343012 ZAX AUTO WASH	920.00			

02/20/2020 11:00 | WATERFORD TOWNSHIP
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FOR CASH ACCOUNT: 70000 01000

FOR: Uncleared

CHECK #	CHECK DATE	TYPE	VENDOR NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
288218	02/24/2020	PRINTED	500246 MI MED INC	681.89			
288219	02/24/2020	PRINTED	500446 FORD PROPANE	94.32			
288220	02/24/2020	PRINTED	500498 ENVISION WARE	781.00			
288221	02/24/2020	PRINTED	500600 TSI SERVICE	1,945.00			
			160 CHECKS	CASH ACCOUNT TOTAL	2,297,248.94		.00

Advance Checks Already Mailed.
Feb 11 -> Feb 20.

02/20/2020 11:02 | WATERFORD TOWNSHIP
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| apchkrccn

FOR CASH ACCOUNT: 70000 01000

FOR: Uncleared

CHECK #	CHECK DATE	TYPE	VENDOR NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
287978	02/11/2020	PRINTED	013198 ADVANCED DISPOSAL	1,990.57			
287979	02/11/2020	PRINTED	013685 APPLIED IMAGING	1,989.00			
287980	02/11/2020	PRINTED	013801 AT&T	457.92			
287981	02/11/2020	PRINTED	021092 BS&A SOFTWARE	12,375.00			
287982	02/11/2020	PRINTED	021510 BLUE CROSS BLUE SHIELD	182,221.15			
287983	02/11/2020	PRINTED	023068 K & Q LAW, PC	300.00			
287984	02/11/2020	PRINTED	023587 HILLARIE F BOETTGER PLLC	300.00			
287985	02/11/2020	PRINTED	023803 ERIC BROOKS	37.37			
287986	02/11/2020	PRINTED	038624 WECHSLER CONSTRUCTION	100.00			
287987	02/11/2020	PRINTED	039944 HOME INSPECTION PLUS	100.00			
287988	02/11/2020	PRINTED	043134 CAMBRIDGE CONSULTING GROU	628.00			
287989	02/11/2020	PRINTED	043364 AT&T MOBILITY	68.98			
287990	02/11/2020	PRINTED	043386 CITI ROOFING	9,300.00			
287991	02/11/2020	PRINTED	043626 CONSUMERS ENERGY	4,241.40			
287992	02/11/2020	PRINTED	043904 COMERICA COMMERCIAL CARD	1,528.22			
287993	02/11/2020	PRINTED	051016 DETROIT ASA	160.00			
287994	02/11/2020	PRINTED	053253 DTE ENERGY	4,926.46			
287995	02/11/2020	PRINTED	063946 EXPERT LANGUAGE SERVICES,	175.00			
287996	02/11/2020	PRINTED	064011 COREY A ELKINS	106.98			
287997	02/11/2020	PRINTED	073243 CLAIRE EMMONS	45.00			
287998	02/11/2020	PRINTED	073529 JOSEPH MCGEE	100.00			
287999	02/11/2020	PRINTED	073529 SHIRLEY MCGEE	100.00			
288000	02/11/2020	PRINTED	093026 RICHARD GALAT	500.00			
288001	02/11/2020	PRINTED	143019 MARSHA KOSMATKA	375.00			
288002	02/11/2020	PRINTED	143600 SCOTT C KOZAK	300.00			
288003	02/11/2020	PRINTED	153146 LAKE ORION COUNSELING CEN	175.00			
288004	02/11/2020	PRINTED	163514 MAMC	40.00			
288005	02/11/2020	PRINTED	193708 ORION TWP PUBLIC LIB	1,200.00			
288006	02/11/2020	PRINTED	213454 NANCY PLASTERER	350.00			
288007	02/11/2020	PRINTED	213626 POWER VAC INC	3,299.00			
288008	02/11/2020	PRINTED	241008 RKA PETROLEUM COMPANIES,	9,991.00			
288009	02/11/2020	PRINTED	254845 BRADLEY STOUT	300.00			
288010	02/11/2020	PRINTED	254866 DENISE ST JOHN	50.00			
288011	02/11/2020	PRINTED	263786 TRUSTMARK HEALTH BENEFITS	587.95			
288012	02/11/2020	PRINTED	274551 UNIVERSAL LIFT PARTS, INC	1,214.91			
288013	02/11/2020	PRINTED	283242 VERIZON WIRELESS	1,434.69			
288014	02/11/2020	PRINTED	283242 VERIZON WIRELESS	1,807.38			
288015	02/11/2020	PRINTED	283242 VERIZON WIRELESS	747.86			
288016	02/11/2020	PRINTED	315216 ANGELA ARNOLD	13.32			
288017	02/11/2020	PRINTED	315217 JEFFREY DROUILLARD	28.57			
288018	02/11/2020	PRINTED	315218 JACOB TRIBBLE	15.76			
288019	02/11/2020	PRINTED	315219 BENJAMIN SKALITZKY	9.05			
288020	02/11/2020	PRINTED	315220 LINDA HEMPHILL	8.44			
288021	02/11/2020	PRINTED	315221 JESS MCININCH	7.83			
288022	02/11/2020	PRINTED	315222 VINCENTE ESPINO-SANDATE	7.83			
288023	02/11/2020	PRINTED	315223 TRICIA STARR	7.83			
288024	02/11/2020	PRINTED	315224 GAIL BRELIN	16.37			
288025	02/11/2020	PRINTED	315225 RYAN SMITH	29.79			
288026	02/11/2020	PRINTED	315226 KENDRA GRICE-BRUNSON	9.05			
288027	02/11/2020	PRINTED	315227 SALLY ROSETE	7.83			
288028	02/11/2020	PRINTED	315228 WILLIAM RUBEN	90.18			
288029	02/11/2020	PRINTED	315229 PATRICK CURRAN	11.49			

FOR CASH ACCOUNT: 70000 01000

FOR: Uncleared

CHECK #	CHECK DATE	TYPE	VENDOR NAME	UNCLEARED	CLEARED	BATCH	CLEAR DATE
288030	02/11/2020	PRINTED	315230 ALAN LOVSE	7.22			
288031	02/11/2020	PRINTED	315231 CHRIS MORSE	8.44			
288032	02/11/2020	PRINTED	315232 JAMES CASAGRANDE	8.44			
288033	02/11/2020	PRINTED	500166 D POOLE	2,500.00			
288039	02/18/2020	PRINTED	023587 HILLARIE F BOETTGER PLLC	383.31			
288040	02/18/2020	PRINTED	043626 CONSUMERS ENERGY	569.00			
288041	02/18/2020	PRINTED	044051 CONSUMERS LIFE	4,899.40			
288042	02/18/2020	PRINTED	053215 DELTA DENTAL	44,505.87			
288043	02/18/2020	PRINTED	053253 DTE ENERGY	9,365.59			
288044	02/18/2020	PRINTED	063943 EXOTIC ZOO	100.00			
288045	02/18/2020	PRINTED	093026 RICHARD GALAT	100.00			
288046	02/18/2020	PRINTED	093840 LOOMIS FARGO & CO	1,203.78			
288047	02/18/2020	PRINTED	103018 DERWOOD HAINES JR	1,150.00			
288048	02/18/2020	PRINTED	103584 JOHN H HOLMES	650.00			
288049	02/18/2020	PRINTED	123585 CHARESA JOHNSON	600.00			
288050	02/18/2020	PRINTED	143600 SCOTT C KOZAK	300.00			
288051	02/18/2020	PRINTED	174280 MICHIGAN FIRE INSP SOCIET	175.00			
288052	02/18/2020	PRINTED	174478 STATE OF MICHIGAN	800.00			
288053	02/18/2020	PRINTED	193074 MEDIA NEWS-21CM ADVERTISI	439.85			
288054	02/18/2020	PRINTED	204620 OAKLAND COUNTY PARKS & RE	175.00			
288055	02/18/2020	PRINTED	243228 STELLA REYES	90.00			
288056	02/18/2020	PRINTED	254845 BRADLEY STOUT	100.00			
288057	02/18/2020	PRINTED	271016 US BANK EQUIPMENT FINANCE	97.66			
288058	02/18/2020	PRINTED	271762 U.S. POSTMASTER (POSTAGE-	5,000.00			
288059	02/18/2020	PRINTED	293355 WILBUR WHITE JR	2,550.00			
288060	02/18/2020	PRINTED	293605 WORLDWIDE INTERPRETERS IN	252.20			
288061	02/18/2020	PRINTED	304880 WATERFORD TOWNSHIP TREASU	265.18			
			79 CHECKS	CASH ACCOUNT TOTAL	320,183.12	.00	

WATERFORD TOWNSHIP - Clerk's Report - December 2019 (Preliminary)

FUND #	FUND DESCRIPTION	BUDGET (FULL YEAR NET)		ACTUAL (YEAR TO DATE)				Budget Revenue Available For Anticipated Expenses <i>(Total Budget Revenues Minus Actual YTD Expenses & Encumb.)</i>
		ORIGINAL <i>(Overbudget)</i>	REVISED <i>(Overbudget)</i>	REVENUES	EXPENSES	ENCUMBRANCES	NET POSITION <i>(Approximate Operating Cash Position)</i>	
101	GENERAL (Net Fire/Police/Parks Support Transfers)	33,329	(457,808)	13,958,170	(13,045,803)	(267,871)	644,496	138,818
206	FIRE	6,283	(720,100)	24,839,713	(21,253,939)	37,895	3,623,669	1,874,076
207	POLICE	3,883	(171,322)	14,917,399	(14,450,795)	(33,110)	433,493	152,828
270	LIBRARY	(146,962)	(275,879)	2,171,222	(2,203,463)		(32,241)	(62,216)
280	PARKS & RECREATION	(137,793)	(325,135)	2,023,269	(2,017,882)		5,388	(115,946)
Sum Of Major Governmental Operating Funds		(241,260)	(1,950,244)	57,909,773	(52,971,882)	(263,086)	4,674,805	1,987,560
590	WATER/SEWER Operations	3,822,955	4,659,320	22,824,836	(19,771,381)	(64,968)	2,988,487	4,822,615
590	WATER/SEWER Capital Improve Operating	(1,803,500)	(1,766,500)	n/a	(1,327,563)	(155,740)	(1,483,303)	(283,197)
Sum Of Major Enterprise Fund Operations		2,019,455	2,892,820	22,824,836	(21,098,944)	(220,708)	1,505,184	4,539,419
599	WATER/SEWER Capital Improve DWRF/SRF Bond	n/a	Bond Proceeds-->	199,051	(199,051)	n/a	n/a	n/a

<i>Index Of Financial Summary Details By Fund</i>			Report Page	<i>Charts and Graphs</i>		Report Page
101	GENERAL FUND		2	<p align="center">CLERK'S FINANCIAL REPORT</p> <p align="center">For Period Ending</p> <p align="center">December 2019 (Preliminary)</p>		<p>as of: 2/13/20</p> <p>Prepared By: Barb Miller, Assistant Budget Director & Accounting Manager</p> <p>Approved By: Kim Markee, Township Clerk</p>
590-99	WATER/SEWER FUNDS		3			
206	FIRE DEPARTMENT FUND		4			
207	POLICE DEPARTMENT FUND		4			
208	POLICE RESTRICTED USE FUND		4			
209	CEMETERY PREP. CARE FUND		4			
210	POLICE & FIRE SPECIAL ASSESSMENT		4			
215	WORKERS COMPENSATION FUND		4			
243	ECONOMIC DEVELOPMENT		5			
246	IMPROVEMENT REVOLVING FUND		5			
250	CABLE COMMISSION FUND		5			
260	COMM. DEVL. BLOCK GRANT FUND		6			
267	MICHIGAN INDIGENT DEFENSE FUND		6			
270	LIBRARY FUND		6			
271	LIBRARY DONATION FUND		6			
280	PARKS & RECREATION FUND		6			
306	P/F DEBT SERVICE FUND		7			
316	UNEMPLOYMENT INS FUND		7			
330	CAPITAL PROJECT FUND		7			
360	MOTOR POOL FUND		7			
680	WATERFORD VETERANS MEMORIAL		7			
715	YOUTH ASSISTANCE FUND		8			
718	NATURE CENTER FUND		8			
844-851	LAKE BOARD REVENUES		8			

WATERFORD TOWNSHIP - Clerk's Report - December 2019 (Preliminary)

FUND #	FUND DESCRIPTION	ORIGINAL BUDGET	REVISED BUDGET	FISCAL YEAR TO DATE	CURRENT MONTH TO DATE	CURRENT MONTH BEGINNING	ENCUMBRANCES	AVAILABLE BUDGET BALANCE
101	GENERAL FUND							
10101	GENERAL FUND REVENUES	19,995,610	20,509,492	21,015,170	1,308,607	19,706,564		(505,678)
	GENERAL FUND EXPENSES:							
11010	TOWNSHIP BOARD	54,627	54,627	54,135	4,164	49,971		492
11360	DISTRICT COURT	2,721,345	2,819,357	2,670,904	398,636	2,272,269	27,586	120,867
11710	SUPERVISOR/ASSESSING	895,450	932,161	898,300	135,393	762,907		33,861
11910	ELECTIONS - CLERK	132,445	222,445	166,393	97,501	68,892	37,717	18,335
12160	CLERK'S OFFICE	709,333	763,033	743,582	123,771	619,811		19,451
12260	HUMAN & FISCAL RESOURCES	259,974	265,336	283,150	45,737	237,413		(17,814)
12480	GENERAL SERVICES	1,980,350	2,031,875	1,893,014	314,469	1,578,545	17,568	121,293
12490	RETIREE BENEFITS	1,291,802	927,225	859,216	72,875	786,341		68,009
12530	TREASURER'S OFFICE	682,258	728,676	713,918	122,413	591,505		14,758
12550	INFORMATION SERVICES	461,508	491,937	479,854	57,005	422,849		12,083
12650	FACILITIES & OPERATIONS	1,309,772	1,349,872	1,263,387	205,354	1,058,032		86,485
14100	DEVELOPMENT SERVICES	1,156,066	1,223,405	1,159,635	194,907	964,728		63,770
17470	COMMUNITY PROMOTIONS	87,650	87,650	74,201	4,239	69,962	185,000	(171,551)
17480	SCHOOL CROSSING GUARDS	46,699	46,699	40,124	4,151	35,973		6,575
19650	TRANSFERS TO OTHER FUNDS	8,173,002	9,023,002	8,802,989	850,000	7,952,989		220,013
	TOTAL GENERAL EXPENSES	19,962,281	20,967,300	20,102,803	2,630,616	17,472,187	267,871	596,626

WATERFORD TOWNSHIP - Clerk's Report - December 2019 (Preliminary)

FUND #	FUND DESCRIPTION	ORIGINAL BUDGET	REVISED BUDGET	FISCAL YEAR TO DATE	CURRENT MONTH TO DATE	CURRENT MONTH BEGINNING	ENCUMBRANCES	AVAILABLE BUDGET BALANCE
590	WATER/SEWER FUND							
	WATER/SEWER REVENUES:							
59001	WATER REVENUES	5,755,750	6,055,750	5,604,987	483,494	5,121,493		450,763
59002	SEWER REVENUES	17,130,800	17,780,800	16,036,540	1,088,799	14,947,741		1,744,260
59003	GENERAL REV. (Inc. 59901/59902 Rev. Offsets)	720,542	822,414	1,183,309	203,800	979,509		(360,895)
59901	FUND 599- PROJECT REVENUES SOURCE (Combined With Org. 59003)							
59902	FUND 599- PROJECT REVENUES SOURCE (Combined With Org. 59003)							
	TOTAL WATER/SEWER REVENUES	23,607,092	24,658,964	22,824,836	1,776,093	21,048,743		1,834,128
	WATER/SEWER EXPENSES:							
	OPERATIONAL ACTIVITY:							
59041	PUMPING & TREATMENT	1,449,925	1,461,925	1,233,371	118,994	1,114,377	14,950	213,604
59042	WATER DISTRIBUTION	597,922	586,885	524,024	43,102	480,922		62,861
59043	WATER SERVICES	561,021	561,021	524,504	30,617	493,887		36,517
59044	WATER/SEWER GEN. ADMIN.	5,168,769	5,316,276	5,739,108	1,066,533	4,672,575	45,574	(468,406)
59046	WATER DEBT - INTEREST & MISC FEES*	202,963	202,963	202,963		202,963		0
59048	WATER ELECTRICAL	162,152	162,152	156,358	11,900	144,458		5,794
59054	SEWER O & M	10,630,993	10,630,993	10,485,023	1,720,391	8,764,631	4,444	141,526
59056	SEWER DEBT - INTEREST & MISC FEES*	500,902	500,902	472,204		472,204		28,698
59057	HARDSHIP	12,000	12,000					12,000
59058	ENGINEERING SERVICES	451,660	518,697	388,000	22,133	365,867		130,697
59061	2003 BOND DEBT SERVICE	45,830	45,830	45,828		45,828		2
	Total Water Sewer Operating Activity	19,784,137	19,999,644	19,771,381	3,013,671	16,757,710	64,968	163,295
	CAPITAL ACTIVITY:							
59045	WATER CAPITAL IMPROVEMENT.	1,018,500	441,500	251,361	13,209	238,152	92,089	98,050
59055	SEWER CAPITAL IMPROVEMENT.	785,000	1,325,000	1,076,202	142,531	933,671	62,894	185,904
59991	FUND 599-WATER IMPROVEMENT							
59992	FUND 599-SEWER IMPROVEMENT			199,051	42,689	156,362		(199,051)
	Total Water Sewer Capital Improvement Activity	1,803,500	1,766,500	1,526,614	198,429	1,328,185	154,983	84,904
	TOTAL WATER/SEWER EXPENSES	21,587,637	21,766,144	21,297,995	3,212,100	18,085,895	219,951	248,199
	<i>*INDICATES THAT DEBT/PRINCIPAL PAYMENTS ARE NOT REFLECTED AS EXPENSES</i>							

WATERFORD TOWNSHIP - Clerk's Report - December 2019 (Preliminary)

FUND #	FUND DESCRIPTION	ORIGINAL BUDGET	REVISED BUDGET	FISCAL YEAR TO DATE	CURRENT MONTH TO DATE	CURRENT MONTH BEGINNING	ENCUMBRANCES	AVAILABLE BUDGET BALANCE
206	<i>FIRE DEPARTMENT FUND</i>							
20601	FIRE DEPARTMENT REVENUES	23,030,501	23,090,120	24,839,713	2,146,976	22,692,737		(1,749,593)
20630	FIRE DEPARTMENT EXPENSES	23,024,218	23,810,220	21,253,939	3,022,867	18,231,073	(37,895)	2,594,176
207	<i>POLICE DEPARTMENT FUND</i>							
20701	POLICE DEPARTMENT REVENUES	14,636,733	14,636,733	14,917,399	182,368	14,735,031		(280,666)
20730	POLICE DEPARTMENT EXPENSES	14,632,850	14,808,055	14,450,795	2,901,815	11,548,980	33,110	324,150
208	<i>POLICE RESTRICTED USE FUND</i>							
20801	POLICE RESTRICTED USE REVENUES	65,550	65,550	345,931	43,707	302,224		(280,381)
20830	POLICE RESTRICTED USE EXPENSES	112,052	112,052	359,925	41,898	318,027		(247,873)
209	<i>CEMETERY PREP. CARE FUND</i>							
20901	CEMETERY REVENUES	24,938	174,938	177,654	151,436	26,217		(2,716)
20927	CEMETERY EXPENSES							
210	<i>POLICE & FIRE SPECIAL ASSESSMENT</i>							
21001	P&F SAD REVENUES	5,994,487	5,994,487	6,019,353	51	6,019,302		(24,866)
21030	P&F SAD EXPENSES	5,994,487	5,994,487	5,994,586		5,994,586		(99)
215	<i>WORKERS COMPENSATION FUND</i>							
21501	WORKERS COMP. REVENUES	16,643	91,643	101,830	75,000	26,830		(10,187)
21530	WORKERS COMP. EXPENSES	500	500					500

WATERFORD TOWNSHIP - Clerk's Report - December 2019 (Preliminary)

FUND #	FUND DESCRIPTION	ORIGINAL BUDGET	REVISED BUDGET	FISCAL YEAR TO DATE	CURRENT MONTH TO DATE	CURRENT MONTH BEGINNING	ENCUMBRANCES	AVAILABLE BUDGET BALANCE
243	<i>ECONOMIC DEVELOPMENT</i>							
24301	EDC REVENUES	1,148	1,148	2,609	294	2,315		(1,461)
24370	EDC EXPENSES	46,260	46,260					46,260
246	<i>IMPROVEMENT REVOLVING FUND</i>							
24601	IMPROVEMENT REVL. REVENUES	728,263	1,353,263	1,364,758	633,222	731,536		(11,495)
24602	IMPROVEMENT REVL. REVENUES	15,900	15,900	4,825		4,825		11,075
24690	IMPROVEMENT REVL. EXPENSES	1,089,500	1,480,143	899,820	95,618	804,202	171,078	409,245
24692	IMPROVEMENT REVL. EXPENSES	15,900	15,900	8,459	800	7,659		7,441
250	<i>CABLE COMMISSION FUND</i>							
25001	CABLE COMMISSION REVENUES	421,718	421,718	409,837	1,557	408,280		11,881
25090	CABLE COMMISSION EXPENSES	402,447	473,475	438,905	14,387	424,518		34,570

WATERFORD TOWNSHIP - Clerk's Report - December 2019 (Preliminary)

FUND #	FUND DESCRIPTION	ORIGINAL BUDGET	REVISED BUDGET	FISCAL YEAR TO DATE	CURRENT MONTH TO DATE	CURRENT MONTH BEGINNING	ENCUMBRANCES	AVAILABLE BUDGET BALANCE
260	COMM. DEVL. BLOCK GRANT FUND.							
CDBG ACTIVITY								
26350	CDBG REVENUES		267,675	483,216	99,186	384,031		(215,541)
26351	CDBG - HOUSING REHAB		69,080	213,537	49,347	164,190		(144,457)
26352	CDBG - PROG ADMIN		28,550	59,409	2,755	56,654		(30,859)
26354	CDBG - PUBLIC IMPROVEMENTS		35,500					35,500
26355	CDBG - PUBLIC SERVICES		45,000	58,804		58,804		(13,804)
26358	CDBG - CODE ENFORCEMENT		89,545	213,845	12,848	200,997		(124,300)
NSP ACTIVITY								
26340	NSP - REVENUES			99		99		(99)
26341	NSP - EXPENSES							
267	MI INDIGENT DEFENSE FUND							
26701	MI INDIGENT DEFENSE - REVENUES	146,040	228,747	229,684	8,161	221,523		(937)
26760	MI INDIGENT DEFENSE - EXPENSES	181,214	250,370	128,267	18,350	109,917		122,103
270	LIBRARY FUND							
27001	LIBRARY REVENUES	2,141,247	2,141,247	2,171,222	5,223	2,165,999		(29,975)
27790	LIBRARY EXPENSES	2,288,209	2,417,126	2,203,463	308,113	1,895,349		213,663
271	LIBRARY DONATION FUND							
27101	LIBRARY DONATION REVENUES	16,500	16,500	29,140	534	28,606		(12,640)
27190	LIBRARY DONATION EXPENSES	31,000	31,000	45,925	3,751	42,174	9,546	(24,471)
280	PARKS & RECREATION FUND							
28001	PARKS & RECREATION REVENUES	1,901,936	1,901,936	2,023,269	48,361	1,974,908		(121,333)
28090	PARKS & RECREATION EXPENSES	2,039,729	2,227,071	2,017,882	246,641	1,771,241		209,189

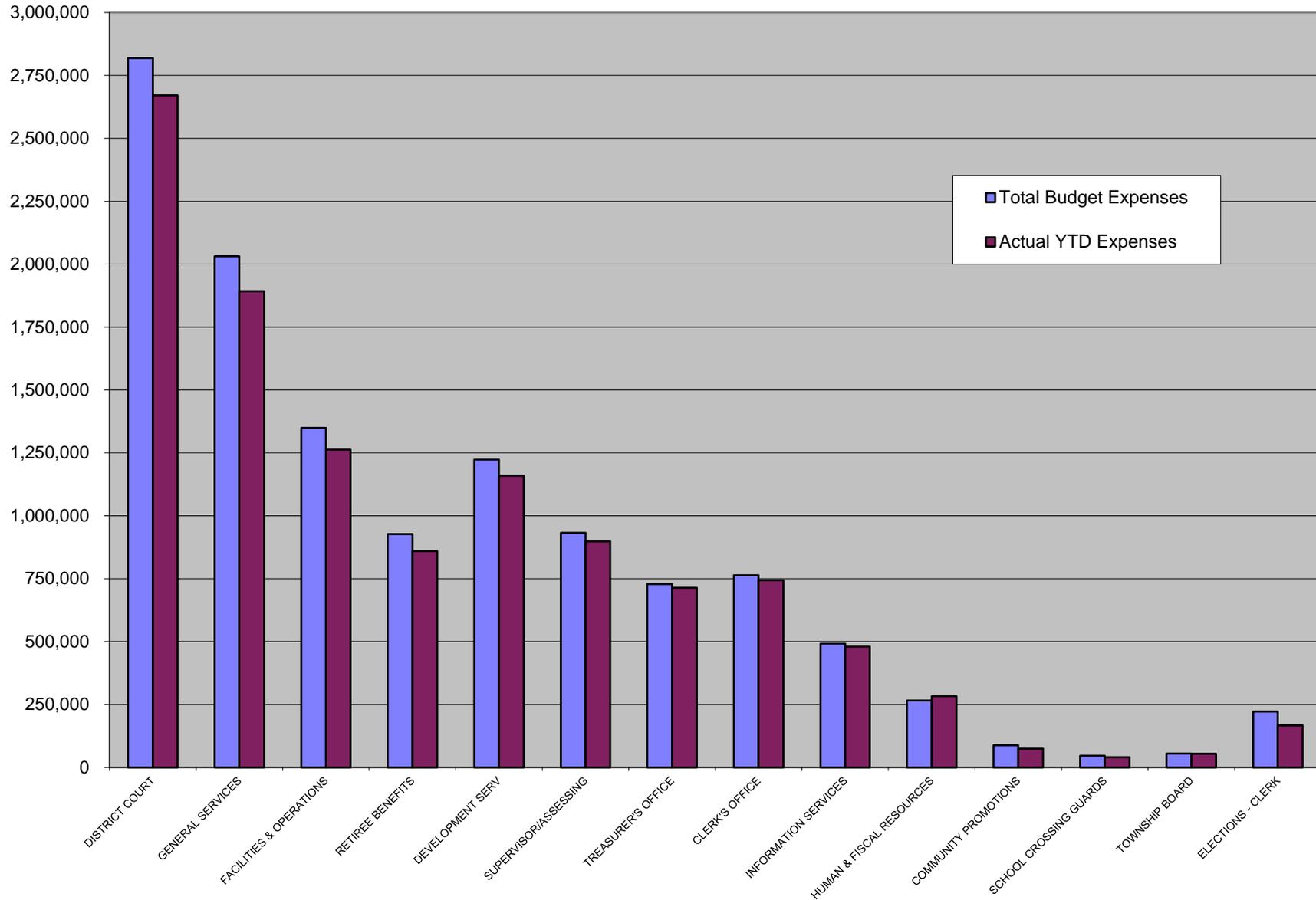
WATERFORD TOWNSHIP - Clerk's Report - December 2019 (Preliminary)

FUND #	FUND DESCRIPTION	ORIGINAL BUDGET	REVISED BUDGET	FISCAL YEAR TO DATE	CURRENT MONTH TO DATE	CURRENT MONTH BEGINNING	ENCUMBRANCES	AVAILABLE BUDGET BALANCE
306	<i>P/F DEBT SERVICE FUND</i>							
30601	P/F CAPITAL PROJECTS REVENUES	100	100	767		767		(667)
30690	P/F CAPITAL PROJECTS EXPENSES	1,000	1,000	136,403		136,403		(135,403)
316	<i>UNEMPLOYMENT INS FUND</i>							
31601	UNEMPLOYMENT INS SVC. REVENUES			9,132	112	9,020		(9,132)
31630	UNEMPLOYMENT INS SVC. EXPENSES			11,733	11,733			(11,733)
330	<i>CAPITAL PROJECT FUND</i>							
33001	CAPITAL PROJECT REVENUES	301,481	3,011,481	3,031,955	2,716,477	315,478		(20,474)
33030	CAPITAL PROJECT EXPENSES		935,000					935,000
360	<i>MOTOR POOL FUND</i>							
36001	MOTOR POOL FUND REVENUES	193,123	193,123	186,058	570			7,065
36090	MOTOR POOL FUND EXPENSES	19,325	31,506	18,905		18,905		12,601
680	<i>WATERFORD VETERANS MEMORIAL</i>							
68001	VETERANS MEMORIAL REVENUES	500	500	1,262		1,262		(762)
68070	VETERANS MEMORIAL EXPENSES	450	450	512	102	411		(62)

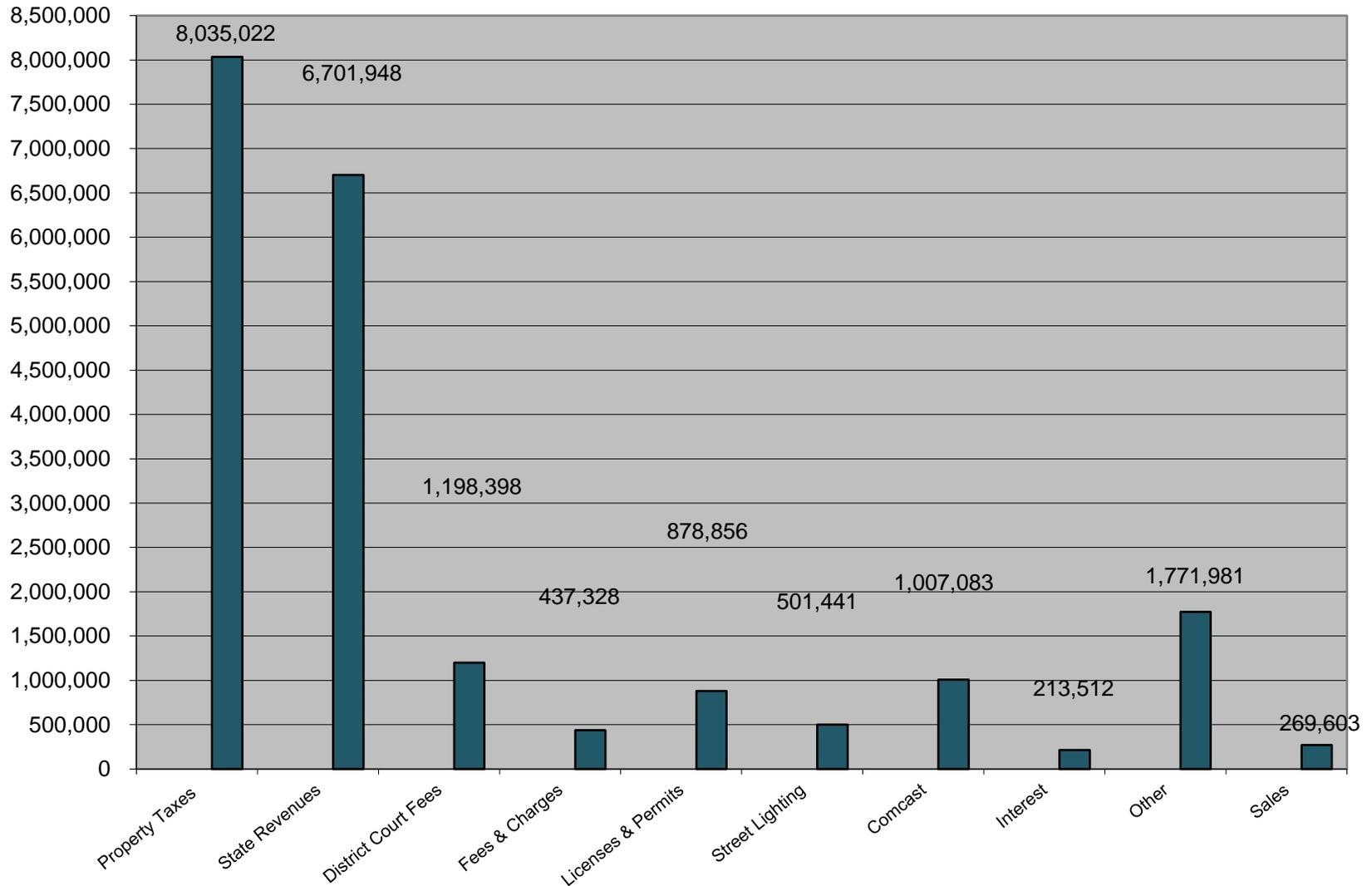
WATERFORD TOWNSHIP - Clerk's Report - December 2019 (Preliminary)

FUND #	FUND DESCRIPTION	ORIGINAL BUDGET	REVISED BUDGET	FISCAL YEAR TO DATE	CURRENT MONTH TO DATE	CURRENT MONTH BEGINNING	ENCUMBRANCES	AVAILABLE BUDGET BALANCE
715	YOUTH ASSISTANCE FUND							
71501	YOUTH ASST. REVENUES	21,000	21,000	21,229	392	20,837		(229)
71570	YOUTH ASST. EXPENSES	38,260	38,260	25,674	1,653	24,020		12,586
718	NATURE CENTER							
71801	NATURE CENTER REVENUES	750	750	12,220		12,220		(11,470)
71890	NATURE CENTER EXPENSES							
FUND #	FUND DESCRIPTION	ORIGINAL BUDGET	REVISED BUDGET	FISCAL YEAR TO DATE	CURRENT MONTH TO DATE	CURRENT MONTH BEGINNING	ENCUMBRANCES	AVAILABLE BUDGET BALANCE
844-851	LAKE BOARD REV/EXP							
84401	LAKE OAKLAND LIB REVENUES			99,452		99,452		(99,452)
84480	LAKE OAKLAND LIB EXPENSES			92,015	1,500	90,515		(92,015)
84501	RAINBOW LAKE LIB REVENUES			4,000		4,000		(4,000)
84580	RAINBOW LAKE LIB EXPENSES			4,000		4,000		(4,000)
84601	SCOTT LAKE LIB REVENUES			26,000		26,000		(26,000)
84680	SCOTT LAKE LIB EXPENSES			15,561		15,561		(15,561)
84701	WATKINS LAKE LIB REVENUES			57,983				(57,983)
84780	WATKINS LAKE LIB EXPENSES			61,458		57,983		(61,458)
84801	HUNTOON LAKE LIB REVENUES			24,739	(14)	24,752		(24,739)
84880	HUNTOON LAKE LIB EXPENSES			8,294		8,294		(8,294)
84901	VAN NORMAN LAKE LIB REVENUES			43,350		43,350		(43,350)
84980	VAN NORMAN LAKE LIB EXPENSES			42,951	2,625	40,326	1,173	(44,124)
85001	EAGLE LAKE LIB REVENUES			20,628		20,628		(20,628)
85080	EAGLE LAKE LIB EXPENSES			16,830	150	16,680		(16,830)
85101	WILLIAMS LAKE LIB REVENUES			37,158		37,158		(37,158)
85180	WILLIAMS LAKE LIB EXPENSES			36,690		36,690		(36,690)

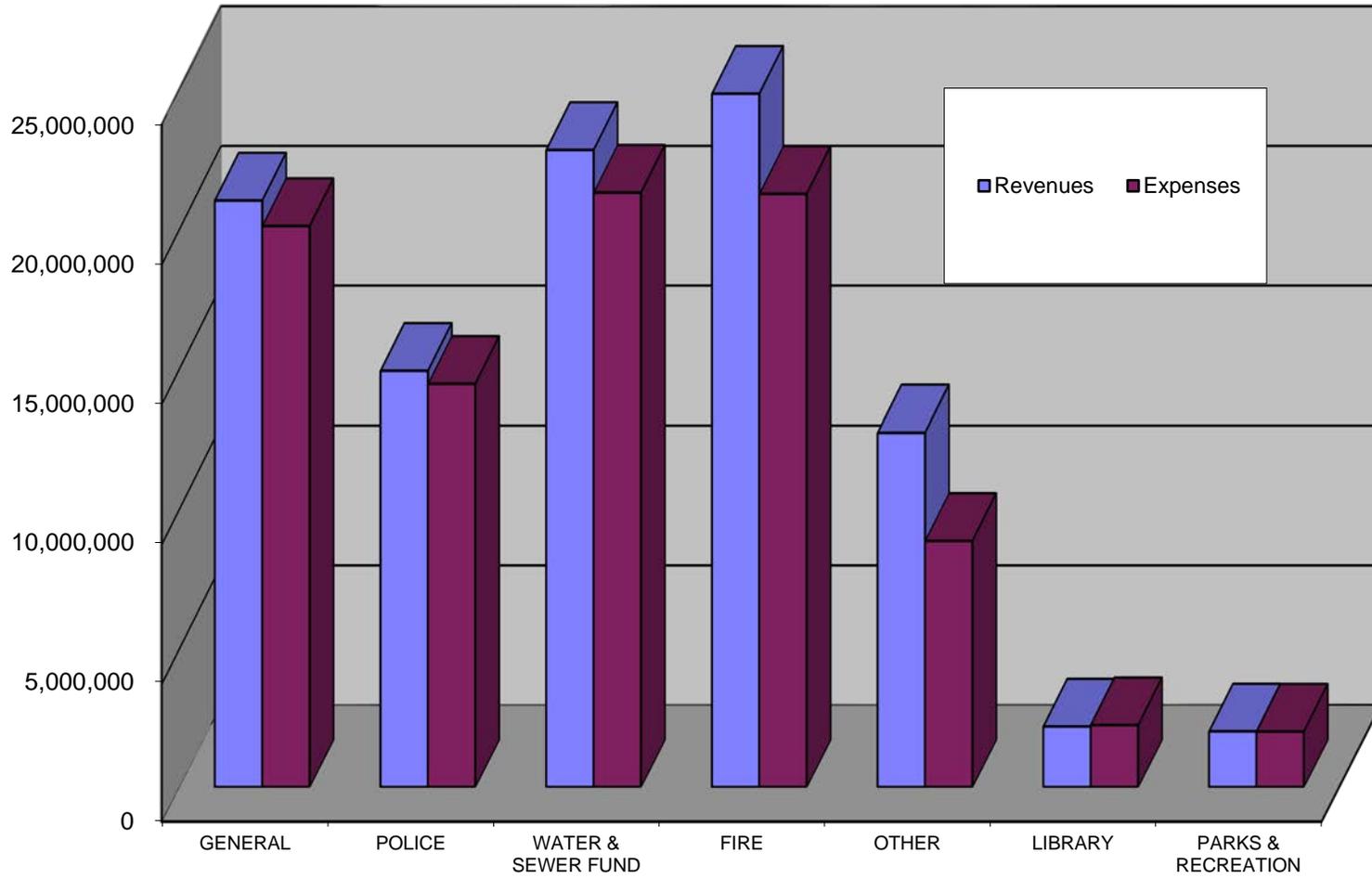
**Waterford Township
Clerk's Report
December 2019 (Preliminary)
General Fund Department Expenses vs Total Budget**



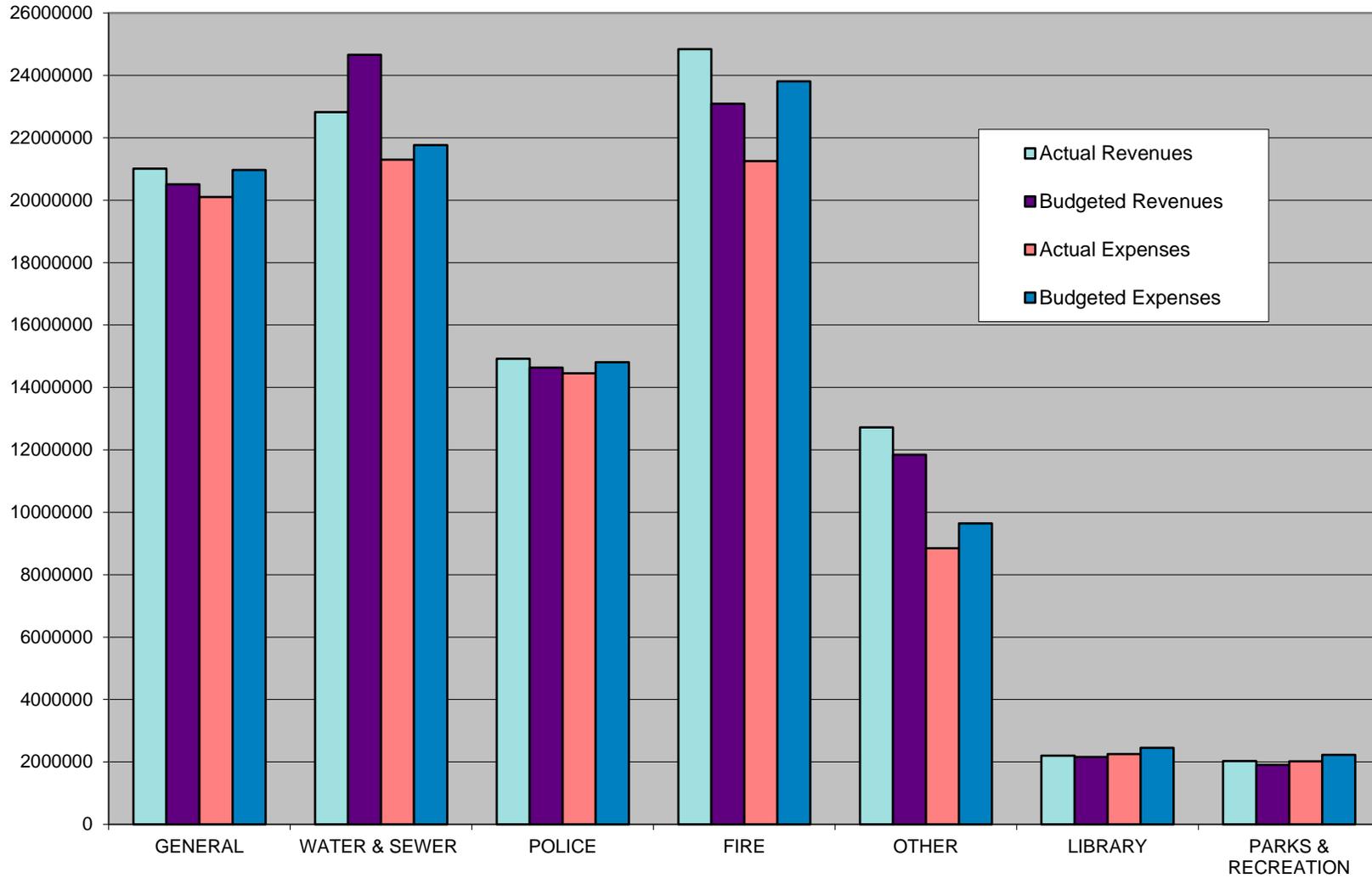
**Waterford Township
Clerk's Report
December 2019 (Preliminary)
General Fund Revenue Source**



**Waterford Township
Clerk's Report
December 2019 (Preliminary)
Actual YTD Revenues vs Actual YTD Expenses**



Waterford Township
Clerk's Report
December 2019 (Preliminary)
Actual Revenues vs Budgeted Revenues
Actual Expenses vs Budgeted Expenses



TREASURER'S REPORT

Jan-20

FUND	BANK	ENDING BAL	ENDING BAL
<u>CHECKING</u>		DEC	JAN
DISBURSEMENT	CHASE	422,986.86	522,672.67
RECEIVING	CHASE	6,478,088.44	7,148,672.27
PAYROLL	CHASE	23,060.51	12,239.56
PENSION PAYROLL	CHASE	916,177.62	926,250.16
TAX	CHASE	4,212,094.53	7,684,929.94
WATER & SEWER	CHASE	3,044,467.79	3,405,017.44
<u>MONEY MARKET</u>			
GENERAL	OAKLAND CO GOVT.POOL	23,637,929.77	18,672,072.86
TAX	OAKLAND CO GOVT.POOL	14,007,895.45	17,015,170.69
WATER & SEWER	OAKLAND CO GOVT.POOL	7,906,614.86	7,917,673.19
WATER & SEWER*	GENISYS CREDIT UNION	23.75	23.75
WATER & SEWER	FLAGSTAR	1,048,511.84	1,049,657.47
WATER & SEWER	FIFTH THIRD BANK	8,329.09	8,802.99
<u>RESTRICTED SAVINGS</u>			
SAFER GRANT ESCROW	CHASE	269,098.89	257,477.34
<u>THIRD PARTY</u>			
WORKER'S COMP	FLAGSTAR	53,125.58	43,727.95
FLEXIBLE BENEFIT	FLAGSTAR	227,408.99	225,523.13

BOARD OF TRUSTEES
Gary Wall, Supervisor
Kim Markee, Clerk
Margaret Birch, Treasurer
Anthony M. Bartolotta, Trustee
Arthur Frasca, Trustee
Karen Joliat, Trustee
Steven Thomas, Trustee



Gary Wall
Township Supervisor

5200 Civic Center Drive
Waterford, Michigan 48329-3773
Telephone: (248) 674-6201 Fax: (248) 674-5451
gwall@waterfordmi.gov

MEMO

To: The Honorable Waterford Township Board

From: Gary Wall, Township Supervisor 

Date: February 2020, 2020

Re: Appointment of Sue Camilleri as Zoning Board of Appeals Alternate

I respectfully request the Township Board approve the appointment of Waterford resident and former Township Clerk Sue Camilleri as an alternate for the Zoning Board of Appeals for a term through March 31, 2022. Ms. Camilleri's appointment will fill the vacancy created when member Rick Schneider was appointed as a full-time member of the ZBA leaving his spot as an alternate vacant.

The Zoning Board of Appeals is responsible for:

- Hearing requests for variances from the non-use requirements of the Zoning Ordinance, and granting such variances where practical difficulties exist.
- Conducting appeals of administrative actions made in carrying out or enforcing any Ordinance provisions.
- Hearing and deciding requests for interpretation of the Ordinance.
- Hearing and deciding appeals from the decision of the Planning Commission regarding special approval uses.

Sue is a long-time resident of Waterford Township, worked for many years in the Building department, served as Township Clerk for more than 6 years, and has a thorough knowledge of Waterford's practices and unique challenges related to zoning.

Sue's extensive experience qualifies her to serve in this capacity, and her knowledge and expertise will make Sue a welcome asset to the ZBA in the role of alternate board member.

Thank you for your consideration.

With us there are no boundaries

BOARD OF TRUSTEES
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Gary Wall
Township Supervisor

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gwall@waterfordmi.gov

MEMO

To: The Honorable Waterford Township Board
From: Gary Wall, Supervisor *GW*
Date: February 20, 2020
Re: Planning Commission – Reappoint David Kramer

I respectfully request the Township Board's approval for the re-appointment of Waterford Township resident David Kramer to the Planning Commission for a three year term March 2, 2020 through March 2, 2023. Mr. Kramer is currently finishing out his first term as a member of the Planning Commission.

The Planning Commission is responsible for:

- Developing, adopting, and overseeing the implementation of the Township's Master Plan.
- Monitoring the effectiveness of the Zoning Ordinance and recommending ordinance revisions and amendments to the Township Board where necessary.
- Reviewing rezoning requests from property owners and making an approval or denial recommendation to the Township Board, which is responsible for making the final decision on rezoning requests.
- Considering and deciding requests from property owners seeking one of the special approval uses listed in the property's zoning classification.
- Reviewing site plans to ensure compliance with the zoning ordinance requirements and the goals and objectives of the master plan.
- Reviewing and discussing planning concepts and issues and their applicability to the current and future development of the Township.
- Assisting in the education of the general public on planning issues and concepts

With these responsibilities in mind, I am confident David will continue to contribute knowledge, insight, and experience to the Planning Commission and has the demonstrated ability to make decisions in the best interest of Waterford Township as a whole.

Thank you for your consideration.

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CHARTER TOWNSHIP OF WATERFORD CLERK'S OFFICE
 5200 Civic Center Dr. • Waterford, MI 48329
 Phone 248-674-6266 • Fax 248-674-5455
 Web Page www.waterfordmi.gov

BANNER APPLICATION

Date Received <u>2/20/20</u>	Fee \$10.00 Per Banner	JE from <u>Accounting</u>	Date of Township Board Action: <u>2/24/2020</u>
DATE OF INSTALLATION: <u>3/14/2020</u>		DATE OF REMOVAL: <u>04/03/2020</u>	

BANNERS MAY HANG FOR A MAXIMUM OF 3 WEEKS

Applicant Information

NAME Waterford Township - Shelly Schloss	PHONE NUMBER 248-674-6201		
ADDRESS 5200 Civic Center Dr.	CITY Waterford	STATE MI	ZIP CODE 48329
EMAIL ADDRESS sschloss@waterfordmi.gov			

Date of Installation: March 13, 2020

Date of Removal: April 3, 2020

ATTACH A PHOTOGRAPH OR RENDERING OF THE PROPOSED BANNER

CHOOSE LOCATION(S) TO PLACE BANNER(S):

\$10.00 per banner / per side

*2 per crosswalk
total of 8*

- Pontiac Lk. Rd. Overpass near Senior Center
- Walton Blvd. Overpass near Mason Middle School
- M-59 Overpass near Lynn St.
- Williams Lake Rd.

1. Banner must be a minimum of 18' above the roadway at its lowest point
2. Banner must be a minimum of 10' from a traffic signal
3. Banner content shall be related to an activity taking place within and shall be located within the jurisdictional boundaries of Waterford Township. Any deviation from this policy must be approved by the Township Board
4. No promotion of products or political messages are allowed
5. Lettering of a sponsor's name, if applicable, shall be a maximum of 3" lettering if on a single line, or 2" lettering if on more than one line
6. Once approved, the Clerk's Office will submit Form 2204 to the MDOT Region TCS Office at least 5 days before the installation of the banner

I, THE UNDERSIGNED APPLICANT, HEREBY SWEAR THAT ALL OF THE STATEMENTS, ANSWERS AND INFORMATION I HAVE PROVIDED IN OR AS PART OF THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE. AND I UNDERSTAND AND ACKNOWLEDGE THAT ANY FALSEHOODS OR MISREPRESENTATIONS CONTAINED IN SUCH STATEMENTS, ANSWERS OR INFORMATION CAN, AMONG OTHER THINGS, BE THE CAUSE OF A DENIAL OF THE REQUESTED PERMIT AND CAUSE FOR THE REVOCATION OF ANY PERMIT ISSUED TO THE APPLICANT.

DATE: 2/20/2020

SIGNED: *Shelly Schloss*

PRINT NAME: Shelly Schloss

2040 Airport Rd.
Waterford, MI 48327



ph. 248.618.0000 ext.810
eric@eaglegraphics.com

BANNERS



DECALS



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Customer:	Shelly Schloss	Date:	1-28-20
Company:	Waterford Township	Salesperson:	Eric Holtfreter
Terms:	Estimate:	Proof
Comments:		



CHARTER TOWNSHIP OF WATERFORD CLERK'S OFFICE

5200 Civic Center Dr. • Waterford, MI 48329

Phone 248-674-6266 • Fax 248-674-5455

Web Page www.waterfordmi.gov

BANNER APPLICATION

Date Received 1/30/2020 Fee \$10.00 Per Banner \$80.00 CL# 3052 Date of Township Board Action: _____

DATE OF INSTALLATION: _____ DATE OF REMOVAL: _____

BANNERS MAY HANG FOR A MAXIMUM OF 3 WEEKS

Applicant Information

NAME Marie E Hauswirth		PHONE NUMBER 248-666-8600	
ADDRESS 2309 Airport Rd		CITY Waterford	STATE MI
EMAIL ADDRESS marieh@waterfordchamber.org		ZIP CODE 48327	

Date of Installation: March 7, 2020

Date of Removal: March 27, 2020

ATTACH A PHOTOGRAPH OR RENDERING OF THE PROPOSED BANNER

CHOOSE LOCATION(S) TO PLACE BANNER(S): \$10.00 per banner / per side

- Pontiac Lk. Rd. Overpass near Senior Center
- M-59 Overpass near Lynn St.
- Walton Blvd. Overpass near Mason Middle School
- Williams Lake Rd.

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DATE: January 29, 2020

SIGNED: Marie E. Hauswirth

PRINT NAME: Marie E. Hauswirth

Waterford Area

BUSINESS & HOME

EXPO

Mott High School

Thur. March 26 5:30-8 PM

BOARD OF TRUSTEES
Gary Wall, Supervisor
Kimberly F. Markee, Clerk
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Anthony M. Bartolotta, Trustee
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Karen Joliat, Trustee
Steven Thomas, Trustee



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Waterford, Michigan 48329-3773
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**DEVELOPMENT SERVICES
DEPARTMENT**
Rob Merinsky, P.E.
Director
Brent A. Gibson
Superintendent of Building
Division
Scott Alef
Planner II of Planning & Zoning
Division

MEMORANDUM

Date: February 5, 2020

To: Honorable Township Board Members

From: Scott Alef, Planner II

RE: Rezoning Case No. 19-12-03
Rezone from R-M1, Low Density Multiple Family Residential to R-1A,
Single-Family Residential

Location: 3550 Watkins Lake Rd. North side of Watkins Lake Rd. with 295 feet of
frontage, west of Scott Lake Rd.

Applicant: Vera Camaj, 5006 Forest Valley Dr., Clarkston, MI 48348

Background and Analysis

Zoning History: 1950 – 1963: Residential-1
1963 – 1998: R-1A Single-Family
1998 – 2011: R-1A Single-Family Residential Max 4 DU/Acre
2011 – Present: R-M1 Low-Density Multiple-Family Residential

Township Utilities: Existing services are available on the site.

Master Plan: Multiple Family.

This property was recently acquired by Vera Camaj. Prior to the acquisition, the property was utilized as a single-family residence. Since 2010, the property had been zoned R-M1, Low-Density Multiple-Family Residential with the idea that the use would be compatible with the adjacent apartment complex. However, since that time, no activity to develop a multiple-family development has occurred. The owner is requesting to rezone back to the historical zoning for the property, R-1A, Single-Family residential. The applicant has submitted a lot split request, pending rezoning approval, that would create a total of three equally sized lots with frontage on Watkins Lake Rd.

The property's dimensions of 295 feet wide by 296 feet deep greatly exceed the requirements of the R-1A, Single-Family Residential zoning district. Even with considering the pending lot split which would result in three properties with dimensions of 98.3 feet wide by 296 feet deep, these would still exceed the requirements of the R-1A

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boundaries**

district. With the exception of the adjacent apartments, single-family zoning is the principle zoning type and development style within the general area. The proposed request is more in line with the surrounding zoning than the existing zoning. The resulting range of uses would result in a similar range of uses that currently exist with the exception that the multiple-family and duplex style residential would be replaced and restricted to single-family homes.

The Master Plan indicates that this parcel and the adjacent apartments are designated as Multiple Family. The intent of this district is to provide for a variety of housing styles and sizes and does not specifically exclude any type of residence. The Multiple Family designation is intended to provide for a variety of housing styles without a specific restriction on the types and sizes. Projects developed should be compatible with the character of the surrounding properties. Rezoning the property from multiple-family to single family, while not maximizing the development potential, is not out of the scope of the Multiple Family designation as is more in line with the historic development pattern of the area.

This proposal would permit an underperforming parcel to be more fully developed in a way that would be more harmonious to the surrounding neighborhoods. Staff is supportive of this proposal without any conditions.

Township Board Action

Motions

Based upon the Planning Commission's favorable recommendation at the January 28, 2020 regular meeting for this rezoning case, should the Board want to consider adopting the requested rezoning to R-1A, Single-Family Residential, the appropriate motion would be to introduce the attached Ordinance and schedule it for possible adoption at the February 10, 2020 meeting.

However, if the Board does not want to adopt the requested rezoning, the appropriate motion would be to not introduce the Ordinance and deny the rezoning.

Staff will be available at Monday's meeting for any questions on this case. However, if you have any questions in advance of the meeting, please contact this office.

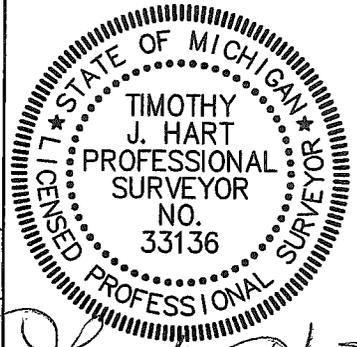
KIEFT ENGINEERING, INC.

PROFESSIONAL CIVIL ENGINEERS AND LAND SURVEYORS



5852 South Main Street, Ste #1
Clarkston, Michigan 48346
Tel: 248-625-5251
Fax: 248-625-7110
www.kiefteng.com

CERTIFICATE OF SURVEY



Survey for VIP RESTORATION LLC. Date 11-19-19

Address 5006 FOREST VALLEY DR. CLARKSTON, MI 48348 Job No. 2019.319

SPLIT OF PARCEL 13-14-327-029

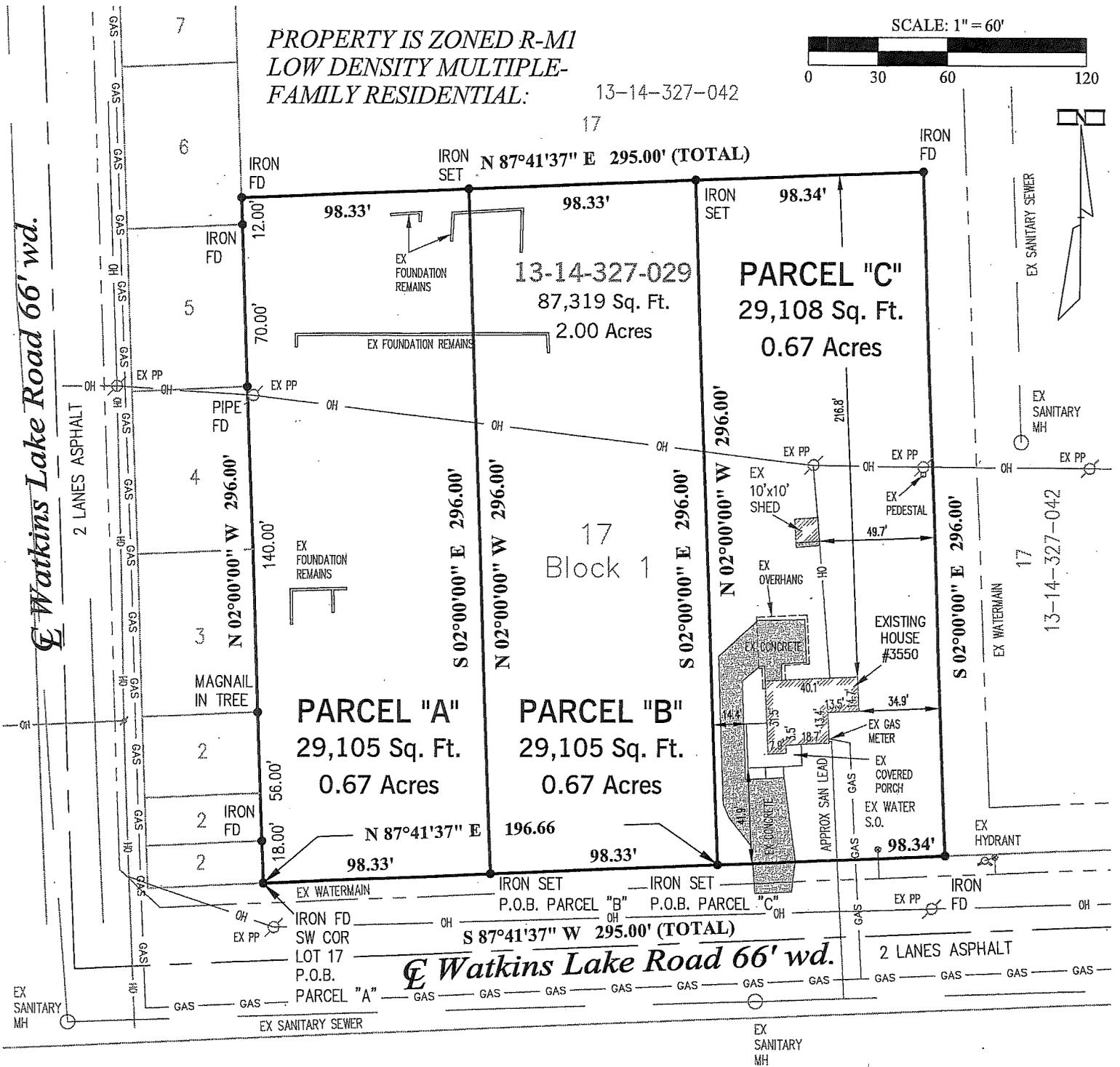
SHEET 1 OF 2

PROPERTY IS ZONED R-MI
LOW DENSITY MULTIPLE-
FAMILY RESIDENTIAL:

13-14-327-042

17

SCALE: 1" = 60'



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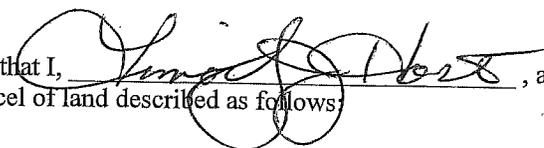


Survey for VIP RESTORATION LLC. Date 11-19-19
Address 5006 FOREST VALLEY DR. CLARKSTON, MI 48348 Job No. 2019.319

SPLIT OF PARCEL 13-14-327-029

SHEET 2 OF 2

I hereby certify that I surveyed and mapped said land platted and/or described on March 19, 2019, and that the relative positional precision of each corner are within limits accepted by the practice of professional surveying and that all of the requirements of P.A. 132 1970 as Amended have been complied with. Bearings shown on this survey were determined in the following manner: "Plat of Co-Tu-Ma-Bi-Bluffs", NE 1/4 of the SW 1/4 of Section 14, T3N, R9E, Waterford Township, Oakland County, Michigan. As Recorded in Liber 4 of Plats, Page 13, Oakland County Records.

This is to certify that I, , a Professional Land Surveyor, have this date made a survey of a parcel of land described as follows:

PARCEL "A" (PART OF PARCEL 13-14-327-029)

PART OF THE SOUTH 296.00 FT OF THE WEST 295.00 FT OF LOT 17 BLOCK 1, "PLAT OF CO-TU-MA-BI-BLUFFS", NE 1/4 OF THE SW 1/4 OF SECTION 14, T3N, R9E, WATERFORD TOWNSHIP, OAKLAND COUNTY, MICHIGAN. AS RECORDED IN LIBER 4 OF PLATS, PAGE 13, OAKLAND COUNTY RECORDS. MORE PARTICULARLY DESCRIBED AS BEGINNING AT THE SW CORNER OF SAID LOT 17, "PLAT OF CO-TU-MA-BI-BLUFFS"; TH N 02°00'00" W 296.00 FT; TH N 87°41'37" E 98.33 FT; TH S 02°00'00" E 296.00 FT; TH S 87°41'37" W 98.33 FT TO THE POINT OF BEGINNING. CONTAINING 29,105 SQ. FT. OR 0.67 ACRES. SUBJECT TO EASEMENTS & RESTRICTIONS OF RECORD, IF ANY.

PARCEL "B" (PART OF PARCEL 13-14-327-029)

PART OF THE SOUTH 296.00 FT OF THE WEST 295.00 FT OF LOT 17 BLOCK 1, "PLAT OF CO-TU-MA-BI-BLUFFS", NE 1/4 OF THE SW 1/4 OF SECTION 14, T3N, R9E, WATERFORD TOWNSHIP, OAKLAND COUNTY, MICHIGAN. AS RECORDED IN LIBER 4 OF PLATS, PAGE 13, OAKLAND COUNTY RECORDS. MORE PARTICULARLY DESCRIBED AS BEGINNING AT A POINT LOCATED N 87°41'37" E 98.33 FT FROM THE SW CORNER OF SAID LOT 17, "PLAT OF CO-TU-MA-BI-BLUFFS"; TH N 02°00'00" W 296.00 FT; TH N 87°41'37" E 98.33 FT; TH S 02°00'00" E 296.00 FT; TH S 87°41'37" W 98.33 FT TO THE POINT OF BEGINNING. CONTAINING 29,105 SQ. FT. OR 0.67 ACRES. SUBJECT TO EASEMENTS & RESTRICTIONS OF RECORD, IF ANY.

PARCEL "C" (PART OF PARCEL 13-14-327-029)

PART OF THE SOUTH 296.00 FT OF THE WEST 295.00 FT OF LOT 17 BLOCK 1, "PLAT OF CO-TU-MA-BI-BLUFFS", NE 1/4 OF THE SW 1/4 OF SECTION 14, T3N, R9E, WATERFORD TOWNSHIP, OAKLAND COUNTY, MICHIGAN. AS RECORDED IN LIBER 4 OF PLATS, PAGE 13, OAKLAND COUNTY RECORDS. MORE PARTICULARLY DESCRIBED AS BEGINNING AT A POINT LOCATED N 87°41'37" E 196.66 FT FROM THE SW CORNER OF SAID LOT 17, "PLAT OF CO-TU-MA-BI-BLUFFS"; TH N 02°00'00" W 296.00 FT; TH N 87°41'37" E 98.34 FT; TH S 02°00'00" E 296.00 FT; TH S 87°41'37" W 98.34 FT TO THE POINT OF BEGINNING. CONTAINING 29,108 SQ. FT. OR 0.67 ACRES. SUBJECT TO EASEMENTS & RESTRICTIONS OF RECORD, IF ANY.

SECTION CORNER WITNESSES NOT SHOWN DUE TO PARCEL FALLING WITHIN A RECORDED PLAT.

STATE OF MICHIGAN

COUNTY OF OAKLAND

ORDINANCE NO. 2020-Z-001

ZONING ORDINANCE MAP AMENDMENT

An ordinance to amend the Waterford Township Zoning Ordinance by rezoning a parcel of property and amending the Zoning Map.

THE CHARTER TOWNSHIP OF WATERFORD ORDAINS:

Section 1 of Ordinance

The parcels of property that are assigned tax parcel number 13-14-327-029, legally described below, with current addresses of 3550 Watkins Lake Rd. are rezoned from **Rezone from R-M1, Low Density Multiple-Family Residential to R-1A, Single-Family Residential**, with the Zoning Map that is adopted by and made part of the Waterford Township Zoning Ordinance in Section 3-101, to be changed and amended to reflect this rezoning.

Section 2 of Ordinance

The effective date of this ordinance shall be on the 8th day after publication, or a later date as provided in the Michigan Zoning Enabling Act for when a petition for voter referendum on this Ordinance and/or a notice of intent to submit such a petition is timely filed with the Township Clerk.

CERTIFICATION

I certify that this Zoning Ordinance Map Amendment Ordinance was adopted by a majority vote of the members of the Board of Trustees of the charter Township of Waterford at a meeting duly called and held on _____.

CHARTER TOWNSHIP OF WATERFORD

Date

Kimberly F. Markee, Township Clerk

Property Descriptions

PARCEL 13-14-327-029

IS DESCRIBED AS

T3N, R9E, SEC 14 CO-TU-MA-BI BLUFFS S 296 FT OF W 295 FT OF LOT 17 BLK 1

Chairperson Werth called the meeting to order at 4:35p.m.

I. Roll Call

Present: Sandra Werth, Chairperson
Steve Reno, Vice Chairperson
Matt Ray, Secretary
Tony Bartolotta, Commissioner
Dave Kramer, Commissioner
Scott Sintkowski, Commissioner
Colleen Murphy, Commissioner

Also Present: Scott Alef, Planner II
Amy Williams, Departmental Aide
Rob Merinsky, Director/Engineering
Gary Dovre, Township Attorney

II. Approval of the December 10, 2019 Planning Commission meeting minutes as corrected.

MOTION AND VOTE

Moved by Kramer

*Supported by Reno; Resolved to **APPROVE** the Minutes of the December 10, 2019 Planning Commission Meeting as corrected.*

**MOTION CARRIED UNANIMOUSLY
(7-0)**

III. Approval of January 28, 2020 Planning Commission meeting agenda.

MOTION AND VOTE

Moved by Reno

*Supported by Bartolotta; Resolved to **APPROVE** the January 28, 2020 Planning Commission Meeting Agenda.*

**MOTION CARRIED UNANIMOUSLY
(7-0)**

IV. Public Hearings

1.) Special Approval. 19-12-01, AT&T Mobility (Staff Reviewer – Scott Alef) (RE-REVIEW)

Location: 6515 Highland Rd
Request: Special Approval under Section 2-600 and 4-006 of the Waterford Zoning Ordinance to permit a new wireless communication facility in an O-2, General Office Zoning District.
Parcel I.D. No.: 13-20-129-004
Applicant: AT&T Mobility c/o Haley Law Firm, PLC

Applicant or representative present: Walley Haley

Commissioner Sintkowski stated that he lives within 500ft. of the proposed tower and that he is a customer of AT&T. He asked if he should recuse himself from this case.

MOTION AND VOTE

Moved by **Bartolotta**, supported by **Kramer**; Resolved to not recuse commissioner Sintkowski from this hearing.

**MOTION CARRIED UNANIMOUSLY
(6-0)**

Mr. Alef gave a brief visual presentation of the site location of a proposed monopole cellular tower across from the airport. The applicant wishes to fill a gap in coverage.

During the public portion of the meeting, the following spoke regarding this request.

Mr. Haley argued his case that the tower should be installed in commercial/busy areas and not in residential, and that other carriers will want to collocate on this tower. His client has agreed to lower the height from 100ft. to 85ft. in the hope to satisfy any airport height concerns. They now have the FAA report that supports a tower of the original height in this location. They have submitted revised plans that no longer require a variance, and he feels that the lights would make it more visible and not hinder helicopter pilots.

Cheryl Bush, Manager of Aviation for the Oakland County Airport spoke up to voice continued concerns for a tower in this location that helicopters routinely travel over. Although she appreciates, the concessions AT&T is trying to make, she still feels strongly that another location would be more suitable and not jeopardize the safety of pilots.

Discussion continued to see if any compromise could be made that would make this any less of a safety concern for pilots.

Attorney Dovre spoke to the board to advise on using the motion templates provided and reminded them to be sure to include any conditions for items not yet addressed, like a fall zone letter.

MOTION AND VOTE

Moved by **Reno**, supported by **Bartolotta**, to deny the request for special approval for the following reasons:

- 1) *The proposed 90 feet tall tower facility would be detrimental to the public safety and welfare contrary to Section 6-100.6.A(1) of the Ordinance based on the safety concerns documented in the record from the Oakland County International Airport, Mead & Hunt, the Oakland County Sheriff, and Magnum Helicopters, which reflect local concerns that the FAA approval and Michigan Department of Transportation Tall Structures Permit do not appear to have taken into account.*

-
- 2) *The location and design of the proposed 90 feet tall tower facility would not be harmonious with the surrounding area, which includes Oakland County International Airport, as required by Section 6-100.6.A(2) of the Ordinance.*
 - 3) *The soils report required by Section 6-100.6.A(13) of the Ordinance has not been provided.*
 - 4) *A current certified fall zone letter as required by Section 6-100.7.B of the Ordinance has not been provided.*
 - 5) *The deficiency in fees of \$1,450.00 has not been corrected by payment or a waiver by the Township.*

6) *This Motion includes the following findings and conclusions*

The following findings are made on the review criteria in Ordinance Section 4-006.3

- A. *The proposed new wireless communication facility is not in accordance with the objectives of the Master Plan and with future land use plans for the area as adopted or maintained by the Planning Commission.*
- B.1 *The proposed new wireless communication facility will not be compatible with adjacent uses of land in terms of building and activity location, scope of activity, character, hours of operation, compliance with the performance standards required under ARTICLE II, Division 2-2.*
- B.2 *The proposed new wireless communication facility will have an adverse effect on the environment or adjacent properties beyond the normal effects of permitted principal uses in the same zoning district.*
- B.3 *The proposed new wireless communication facility will result in an impairment, pollution, and/or destruction of air, water, natural resources and/or the public trust therein.*
- C. *The proposed new wireless communication facility is not located in any Special Approval use service areas identified and adopted by the Planning Commission.*
- D. *The proposed new wireless communication facility will be a use that does impose an unreasonable burden upon public services and utilities.*

The conclusions on the considerations in Ordinance Section 4-006.4 are:

- A.1 *The proposed new wireless communication facility is not of such location, size and character as to be compatible with the orderly development of the zoning district in which it is situated.*
- A.2 *The proposed new wireless communication facility will not be compatible with the orderly development or use of adjacent zoning lots.*
- A.3 *Pedestrian circulation will not be hindered by the proposed new wireless communication facility.*
- A.4 *Outdoor operations and display in connection with the proposed new wireless communication facility will burden and/or disrupt uses on adjacent properties.*
- A.5 *The natural and surrounding environment will not be negatively impacted by the proposed new wireless communication facility.*

-
- B. *The proposed new wireless communication facility will be within the capacity limitations of the existing or proposed public services and facilities which serve its location.*
 - C. *The proposed new wireless communication facility will be conducive to fulfilling a gap in the geographic coverage of such services to Township residents.*

MOTION CARRIED

(4-3) with commissioners Murphy, Sintkowski and Werth opposed.

2.) Rezoning. 19-12-03, Vera Camaj (Staff Reviewer – Scott Alef)

Location: 3550 Watkins Lake Rd
Request: Rezone from R-M1, Low Density Multiple-Family Residential District to R-1A, Single-Family Residential District.
Parcel I.D. No.: 13-14-327-029
Applicant: Vera Camaj

Mr. Alef gave a brief history of the zoning for this property and informed the commissioners that if approved, they plan on splitting the lot into 3 parcels.

During the public portion of the meeting, the following spoke in favor of this request.

Patty Smith of 1811 Watkins Lake Rd. favors this request, and would prefer single family over multiple family across the street.

MOTION AND VOTE

Moved by Kramer

Supported by Sintkowski; Resolved to forward a favorable recommendation in Case No. 19-12-03 on to the Township Board, to rezone the subject property of this application from R-M1, Low Density Multiple-Family Residential District to R-1A Single-Family Residential District based on the following findings and conclusions under the Ordinance approval recommendation guidelines which are based on assessment of the information and statements presented in this case by or for the Township Staff, Applicant, and members of the public.

Findings:

- A. *The requested zoning change is consistent with the adopted Master Plan as amended.*
- B. *The requested zoning change is consistent with existing uses and zoning classifications of properties within the general area of the subject zoning lot.*
- C. *The subject zoning lot is physically suitable to provide all dimensional and site requirements for the range of uses permitted under the proposed zoning classification.*

-
- D. *The trend of development in the general area of the subject zoning lot is consistent with the requested zoning change.*
 - E. *The Township and other public agencies do possess the capacity to provide all utility and public safety services that would be required for the range of land uses permitted under the proposed zoning classification.*
 - F. *The requested zoning change and the resulting range of uses permitted under the proposed zoning classification will not result in any significant environmental impacts.*
 - G. *The proposed zoning amendment will not be detrimental to the public interest.*

**MOTION CARRIED UNANIMOUSLY
(7-0)**

3.) Special Approval. 20-01-01, Elowsky Lawn Services (Staff Reviewer – Scott Alef)

Location: 2527 Dixie Hwy
Request: Special Approval per Section 3-806.5.C (6) and 4-006 to permit Outdoor Storage as an accessory use within an M-1, Light Industrial zoning district
Parcel I.D. No.: 13-13-177-023
Applicant: Elowsky Lawn Services

Applicant or representative present: Stephanie Elowsky

Mr. Alef gave a brief overview and visual presentation of this property. Owners have been operating with similar activity but are now submitting for a formal site plan and provide proper screening. The surrounding area use has been heavy industrial for some time. MDOT has concerns with the two entrances, and would like them to reduce it to one. The current parking along the front extends in to the right-of-way, and if it could be eliminated to provide more greenspace.

Ms. Elowsky added that the only concerns would be with seasonal vehicles being stored rather than coming and going. She did not think there would be any issues to close off one drive access and remove the parking along the front to add more landscaping.

During the public portion of the meeting, no one spoke regarding this request.

MOTION AND VOTE

Moved by Ray

*Supported by Reno; to **APPROVE** with conditions the request for special approval in this case based on the following findings and conclusion under the Ordinance review criteria*

and considerations, which are based on assessment of the information and statements presented in this case by or for the Township Staff, Applicant, and members of the public.

Findings:

- A. *The proposed use is in accordance with the objectives of the Master Plan and with future land use plans for the area as adopted or maintained by the Planning Commission.*
- B.1 *The proposed use will be compatible with adjacent uses of land in terms of building and activity location, scope of activity, character, hours of operation, and compliance with the performance standards required under ARTICLE II, Division 2-2.*
- B.2 *The proposed use will not have an adverse effect on the environment or adjacent properties beyond the normal effects of permitted principal uses in the same zoning district.*
- B.3 *The proposed use will not result in an impairment, pollution, and/or destruction of air, water, natural resources and/or the public trust therein.*
- C. *The proposed use is not located in any Special Approval use service areas identified and adopted by the Planning Commission.*
- D. *The proposed use will not impose an unreasonable burden upon public services and utilities.*
- E. *The proposed use will be in compliance with the regulations of the Zoning District in which it is proposed to be located.*

Conclusions:

- A.1 *The proposed use is of such location, size and character as to be compatible with the orderly development of the Zoning District in which it is proposed to be situated.*
- A.2 *The proposed use will be compatible with the orderly development or use of adjacent zoning lots.*
- A.3 *Pedestrian circulation will not be hindered by the proposed use.*
- A.4 *Outdoor operations and display in connection with the proposed use will not burden and/or disrupt uses on adjacent properties.*

-
- A.5 *The natural and surrounding environment will not be negatively impacted by the proposed use.*
- B. *The proposed use will be within the capacity limitations of the existing or proposed public services and facilities which serve its proposed location.*
- C. *The proposed use will be conducive to fulfilling a gap in the geographic coverage of such services to Township residents.*

The conditions of this approval, which have considered the Planning Commission's ability to impose reasonable restrictions to ensure compliance with the performance standards established in the Zoning Ordinance, are as follows:

- 1. Eliminate the southerly drive along the front of the property and get MDOT approval.*
- 2. Eliminate the parking that extends into the right-of-way.*
- 3. Move the sidewalk back and add more landscaping along the front.*

**MOTION CARRIED UNANIMOUSLY
(7-0)**

V. Conceptual Site Plans:

- 1.) Site Plan # PSP. 20-1352, Oakland County Business Park – Distribution Center (Staff Reviewer – Scott Alef)

Location: 327 N Telegraph Rd
Request: Concept Site Plan Review
Parcel I.D. No.: 13-25-200-036 & 13-25-200-013
Applicant: ARI-EL Enterprises

Applicant or representative present: Ari Leibovitz

Mr. Alef gave a brief visual overview of this conceptual plan for a freight handling distribution center. He noted that this plan is incomplete as submitted. MDOT did not have enough time to review, there is no street scape provided (which is required) and other issues not yet addressed. Staff could not recommend approval at this time.

Mr. Leibovitz commented on how the demolition of the former mall was ahead of schedule and that he is trying to move forward. He has always planned to incorporate a distribution center in this area and that is why the overlay zone was pursued. There is a big demand for this type of facility. He plans to develop an up to date facility but is not ready to discuss landscape and streetscape at this time. He has reserved this outer

space for other uses and development but does not yet know what that will be. He has had some feedback from MDOT and made some revisions but was hoping to get a green light from the Township to proceed and be ready to build. He further advised the commissioners that he has had numerous conversations with engineering and DPW about utilizing the existing lateral water main and storm sewer. He does not want to spend a lot of money now to replace them when they are not yet sure about the rest of the development. His plan is to test the lines and make some repairs, but to hold off on replacement until the rest of the development is decided on.

Discussion continued regarding the lack of items needed to proceed with conceptual site plan approval or to table this for more information.

Attorney Dovre spoke to the board to clarify Township Ordinance requirements for conceptual site plan approval and further advised on possible options for the applicant to work with staff to meet requirements.

Mr. Merinsky, spoke up to answer a question from the board regarding the water main. He said that staff recommended that they replace the old lines with new lines. The existing lines have been out of service for several years and DPW does not want to them. It would be up to the owner to test the lines and come to an agreement with DPW regarding this issue.

MOTION AND VOTE

Moved by Reno

*Supported by Bartolotta; Resolved to **TABLE** this until the February 25th meeting.*

MOTION CARRIED UNANIMOUSLY

(7-0)

VI. Discussion

1.) City of Auburn Hills Master Plan Update

Mr. Alef said that he just wanted the Commissioners to be aware of this information.

VII. All Else

VIII. Adjourn

Chairperson Werth adjourned the meeting at 6:23p.m.



Rezoning Case #19-12-03 Vera Camaz - R-M1 to R-1A Aerial Map



1:4,514



752.3 0 376.17 752.3 Feet

SOURCES: The Charters Township of Waterford and Oakland County, MI. Oakland County parcel data, Updated weekly.

DISCLAIMER: Information depicted hereon is for reference purposes only. It was compiled from the best available resources which have varying degrees of accuracy. This map is not a legally recorded map nor a survey and is not intended to be used as such. The Charter Township of Waterford assumes no responsibility for error that arise from this map.



Rezoning Case #19-12-03 Vera Camaz - R-M1 to R-1A Zoning Map



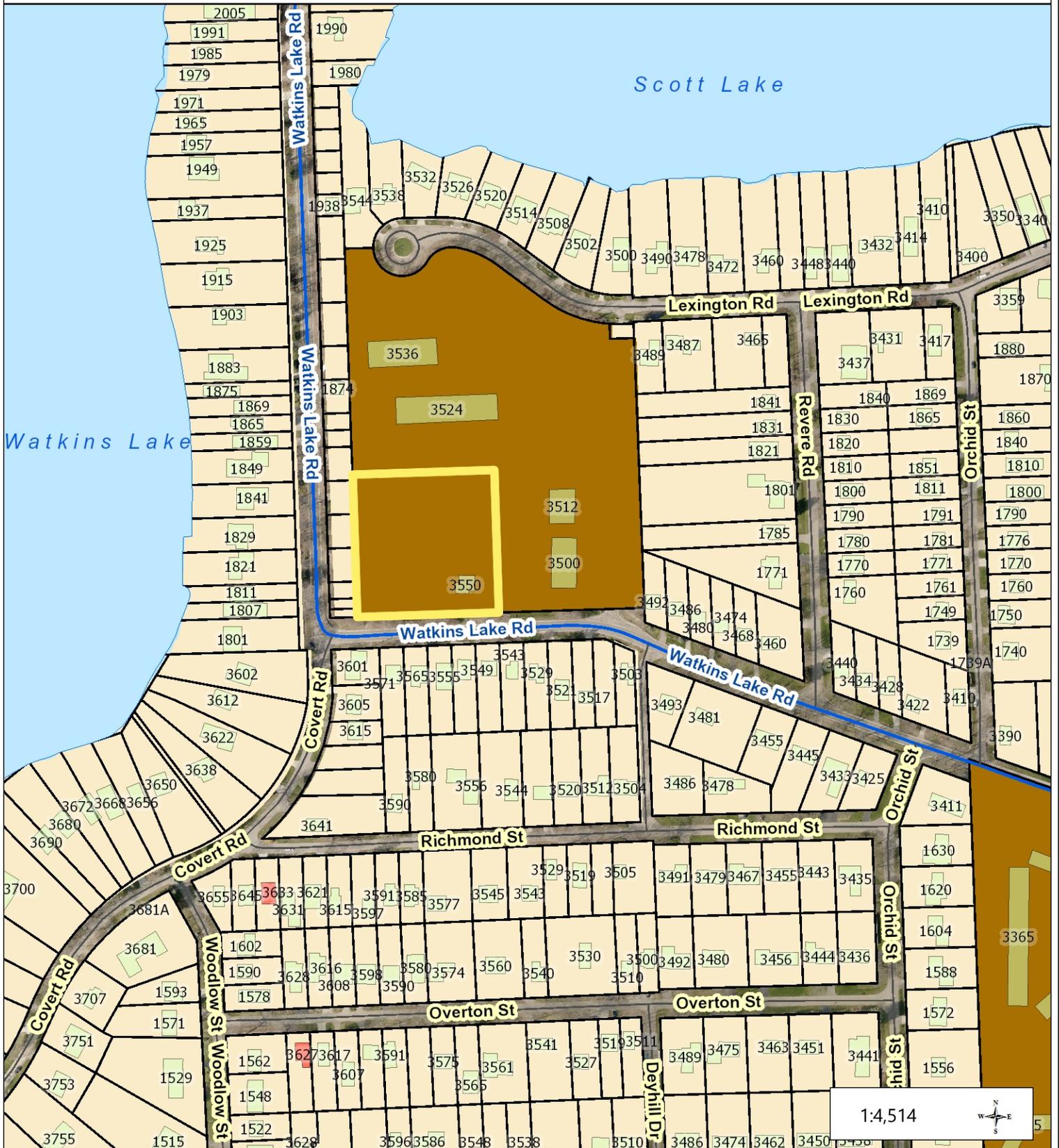
752.3 0 376.17 752.3 Feet

SOURCES: The Charters Township of Waterford and Oakland County, MI. Oakland County parcel data, Updated weekly.

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Rezoning Case #19-12-03 Vera Camaz - R-M1 to R-1A Master Plan Map



1:4,514



752.3 0 376.17 752.3 Feet

SOURCES: The Charters Township of Waterford and Oakland County, MI.
Oakland County parcel data, Updated weekly.

DISCLAIMER: Information depicted hereon is for reference purposes only. It was compiled from the best available resources which have varying degrees of accuracy. This map is not a legally recorded map nor a survey and is not intended to be used as such. The Charter Township of Waterford assumes no responsibility for error that arise from this map.

(ARTICLE III, DIVISION 3-3 cont.)**SECTION 3-303. R-1, R-1A, R-1B, R-1C SINGLE-FAMILY RESIDENTIAL DISTRICTS**

The regulations in the subsections below shall apply to properties in the R-1, R-1A, R-1B, and R-1C Single-Family Residential Zoning Districts:

1. **Purpose and Intent.** The R-1, R-1A, R-1B, and R-1C zoning districts are intended to implement the goals of the Single-Family land use designation, as described in Chapter 8 of the Waterford Township Master Plan-2003-2023 and identified on the Future Land Use Maps, by providing areas in the Township for single-family dwellings, affordable housing, and residentially related uses. These districts are designed to provide for a limited range of single-family density to encourage the viability of single-family residential land use, to prohibit uses of land which would adversely affect the health, safety, and welfare of residents and the aesthetics and character of residential neighborhoods and areas, and to preserve and protect required and designated open space and natural features to achieve Master Plan Objectives 6-2, *Promote Open Space Developments*, and 6-3, *Ensure All Development Efforts Respect, Preserve, and Protect Waterford's Natural Characteristics and Constraints*. The R-1C district is also designed to implement the Master Plan goal of sustaining the viability of residential use, lot size characteristics, and neighborhood patterns in subdivisions that were platted prior to the establishment of Township-wide zoning in 1963. The R-1, R-1A, R-1B, and R-1C districts are also intended to discourage any land use that would create excessive or unsafe traffic on local streets, and any use which, because of its size or any other characteristics, would create burdens, demands, and costs for public services substantially in excess of such requirements and costs if the district were developed solely for single-family dwellings.
2. **Conformance to Regulatory Standards.** All zoning lots, uses, buildings, and structures within these zoning districts shall comply with **Sections 3-900 and 3-901** and the **Waterford Code of Ordinances, Buildings and Building Regulations, Fire Prevention and Protection, Flood Control and Environmental Protection, Health and Sanitation, and Water and Sewers**. In addition to all other plan review requirements applicable under this Zoning Ordinance, all individual zoning lot developments in these districts consisting of one single-family dwelling shall require approval in accordance with **Section 4-010**. In addition to all other plan review requirements applicable under this Zoning Ordinance, developments in these districts proposed under the **Waterford Code of Ordinances, Subdivision and Land Management Regulations**, or under **Section 4-004.4**, shall require conformance to those regulations and require major site plan review and approval in accordance with **Section 4-004**.
3. **Permitted Principal Uses.** The following uses are permitted as principal permitted uses in the R-1, R-1A, R-1B, and R-1C districts:
 - A. Detached single-family dwellings (*See Dwelling, Single-Family in Section 1-007*).
 - B. Adult day care homes (*See Adult Day Care Facilities in Section 1-007*).
 - C. Child family day care homes (*See Child Day Care Facilities in Section 1-007*).
 - D. Child foster family homes, adult foster care family homes, and adult foster care small group homes (*See Foster Care Facilities in Section 1-007*).
 - E. Neighborhood public utility facilities (*See Public Utility in Section 1-007*) and public utility hardware (*See Public Utility in Section 1-007*).
 - F. Area public utility facilities (*See Public Utility in Section 1-007*), provided that any installations located closer than fifty (50) lineal feet from any adjacent residential dwelling shall be screened with landscaping materials as provided for in the SPL Manual and identified in a landscape plan reviewed and approved by the Zoning Official and Township Engineer, and such landscaping shall not negatively impact accessibility by utility maintenance crews.
4. **Permitted Uses after Special Approval.** The following uses shall be permitted as special approval uses in the R-1, R-1A, R-1B, and R-1C districts, subject to the review and approval of the use in accordance with **Section 4-006** and any conditions hereinafter imposed for each such use:
 - A. Child group day care (*See Child Day Care Facilities in Section 1-007*), when meeting the statutory standards of Public Act 110 of 2006, Michigan Zoning Enabling Act, as amended.
 - B. Hobby breeders (*See Hobby Breeders in Section 1-007*) and kennels (*See Kennels in Section 1-007*) on zoning lots five (5) contiguous acres or larger in area. The Planning Commission may consider requests for this activity on zoning lots between two (2) and five (5) contiguous acres in area.
 - C. Stables (*See Building in Section 1-007*) on zoning lots five (5) contiguous acres or larger in area.
 - D. Nursery establishments (*See Commercial Bulk Vegetation and Soil Resource Establishments in Section 1-007*) on zoning lots five (5) contiguous acres or larger in area.
 - E. Regional public utility facilities (*See Public Utility in Section 1-007*), provided that the Planning Commission determines that no other location is available for the efficient and effective provision of utility services to Township residents, and that reasonable measures are stipulated and implemented to mitigate the impact of such installations on the adjacent properties.

(ARTICLE III, DIVISION 3-3, SECTION 3-303.4 cont.)

- F. Educational facilities (*See Educational Facilities in Section 1-007*), except colleges and universities.
 - G. Religious facilities (*See Religious Facilities in Section 1-007*).
 - H. One (1) in-law suite, in the R-1 and R-1A districts only, provided: (1) deed restrictions are recorded against the zoning lot prohibiting occupancy of the in-law suite, at any time, by any person other than in-laws of the family occupying the dwelling unit on the same zoning lot, which deed restrictions shall be subject to the review and approval of the Township Attorney prior to recording; (2) the in-law suite is not occupied by more than two (2) in-laws at the same time; (3) the in-law suite shall be not less than five hundred fifty (550) square feet of usable floor area nor more than fifty (50) percent of the usable floor area of the area occupied by the remainder of the family, exclusive of the in-law suite; and (4) the in-law quarters shall be accessory to a dwelling unit principal use, which is occupied by the family of the in-laws.
 - I. Sod farm and soil resources excavation establishments (*See Commercial Bulk Vegetation and Soil Resource Establishments in Section 1-007*) on zoning lots twenty (20) contiguous acres or larger.
5. **Permitted Uses after Special Accommodation Use Approval.** Adult group day care homes (*See Adult Day Care Facilities in Section 1-007*) and adult foster care medium group homes (*See Foster Care Facilities in Section 1-007*) shall, after receiving approval of the use in accordance with **Section 4-008**, be permitted as special accommodation uses in the R-1, R-1A, R-1B, and R-1C districts, when meeting the statutory standards of Public Act 110 of 2006, Michigan Zoning Enabling Act, as amended, and subject to the conditions hereinafter imposed for each use.
6. **Open Space Preservation.** Zoning lots within the R-1, Single Family Residential District are eligible for open space preservation as provided in **Section 4-004.5** to encourage the long-term preservation of open space and natural features, to implement the goals of the open space overlay land use designation as described in Chapter 8 of the Waterford Township Master Plan-2003-2023, and to implement Master Plan Goal Six, *To Ensure and Enforce Land Use Development Practices that are Sensitive to Waterford's Natural Environment*, by allowing for creative arrangements of single-family residential units to enable the preservation of open space and natural features present on eligible zoning lots.

The Waterford Township Future Land Use Map 13 (page 8-28) indicates that nearly 43 percent of the total land area is reserved for the Single Family master plan designation. This is comparable to other communities and is consistent with the standards of quality community planning.

Multiple-Family

The Multiple Family designation is intended to address the varied housing needs of Township residents by providing locations for development of multiple family housing at a level of density higher than that permitted in the Single Family designation, but limited to a density that does not create a negative impact on the natural and social environment of Waterford. The Multiple Family designation is intended to afford a transition of use in existing housing areas by permitting new developments or the redevelopment of land between adjacent residential and commercial or office-zoned properties. The designation will enable various types and sizes of residential accommodations for ownership or rental, to meet the needs of the different age and family groups in the Township. It should be noted that this designation intends to provide creative multiple housing opportunities for senior citizens in areas of the Township where there is pedestrian access to retail and office uses, with a potential higher density allowance where a reduction in traffic impact can be shown. The Multiple Family designation also intends to provide for the classification and bulk requirements for housing within a manufactured housing community, created according to the regulations in the Mobile Home Commission Act.

Multiple family housing developments must preserve significant natural features of the site. Accordingly, preservation of open space, flood prone zones, wooded areas and preservation of other natural features is a necessary component of every development considered in this land use designation. The intent is to achieve Master Plan Goal Six, ***To Ensure and Enforce Land Use Development Practices that are Sensitive to Waterford’s Natural Environment*** (Please refer to Chapter 9 – Implementation) in conjunction with Master Plan Goal Seven.

Multiple family housing developments should provide direct access to adequate paved roads, sufficient utility infrastructure to support the density, usable outdoor recreation space, and a well designed internal street network, in accordance with accepted engineering principles and the requirements of the Road Commission for Oakland County. These developments should also include nonmotorized pathways in order to strive to achieve Master Plan Goal Three, ***To Enhance the Walkability of Waterford*** (Please refer to Chapter 9 – Implementation).

Multiple family housing should be designed to be compatible with the historic development of housing in Waterford, as well as surrounding or nearby single family housing. Building heights should be reflective of the character of the surrounding community, without endangering air traffic operations.

The Waterford Township Future Land Use Map 13 (page 8-28) indicates that approximately 3.72 percent of the total land area is reserved for the Multiple Family Master Plan designation. This is comparable to other communities and is consistent with the standards of quality community planning.

WATERFORD TOWNSHIP

AGENDA REQUEST FORM

Date: 02/18/2020

To: Kim Markee, Clerk
Kari Vlaeminck, Deputy Clerk

From: Russell D. Williams, DPW Director

Please place the following item on the February 24, 2020 agenda:

Appointment of DPW Engineer

Please place this item under:

- Awards and Presentations
 Reports
 Introduction

- Old Business
 New Business
 Closed Session

Please forward the following copies of agenda items:

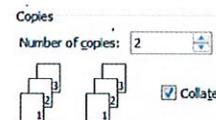
(1) Word File via email



(1) A PDF electronically
Please provide a single PDF for
each agenda item.



(2) Printed hard copies



Please note:

Agenda items must be scheduled by **NOON** on the **TUESDAY** prior to Board meeting. Please schedule agenda items by sending this form to the Clerk and Deputy Clerk by the noon deadline. **DO NOT STAPLE THIS FORM TO THE BOARD MATERIAL.**

IF YOU REVISE ANY OF THE BOARD MATERIAL PLEASE PROVIDE A NEW WORD FILE AND PDF COPY OF THE ENTIRE PACKET. ALSO, YOU MUST ADD REVISED IN THE NAME OF THE TITLE SO IT MAY BE EASILY DIFERENTIAED

Two (2) copies of Board information for this agenda item are attached here.

Two (2) copies of Board information for this agenda item will be delivered to the Clerk's Dept. by **12:00 PM on the Wednesday** prior to meeting. I understand that information that is provided after the deadline might not be included in the packet.

BOARD OF TRUSTEES
Gary Wall, Supervisor
Kimberly Markee, Clerk
Margaret Birch, Treasurer
Anthony M. Bartolotta, Trustee
Karen Joliat, Trustee
Art Frasca, Trustee
Steven Thomas, Trustee



5200 Civic Center Drive
Waterford, Michigan 48329-3773
Telephone: (248) 674-2278 Fax: (248) 674-8658
www.waterfordmi.gov

DEPARTMENT OF PUBLIC WORKS
Russell Williams
Director
Joseph Ashley
Water & Sewer Superintendent
Justin Westlake
Facilities & Operations Superintendent
Derek Diederich
Administrative Superintendent
Frank Fisher
Engineering Superintendent

DATE: February 18, 2020
TO: Honorable Charter Township of Waterford Board of Trustees
FROM: Russell D. Williams, DPW Director *RW*
RE: Appointment of DPW Engineer Kristin Goetze P.E.

With the leaving of Mr. Daniel Stickel P.E. in October, the DPW has been actively advertising for a replacement Engineer.

Ms. Kristin Goetze P.E., applied for the position and exceeds the required knowledge and experience the DPW is requesting. After several conversations with Ms. Goetze, Waterford Township DPW is very confident she will be a very productive member of the team.

Ms. Goetze has worked as a project engineer/manager for many years at Johnson & Anderson, Inc. (now DLZ, Inc.), specializing in Hydraulics and Computer Modeling, Water and Sewer System Planning, Design, and Construction Contract Administration.

Ms. Goetze earned her Bachelor of Science Civil Engineering at Michigan Technological University.

<p style="text-align: center;">Requested Board Action</p> <p style="text-align: center;">Approve an Offer of Employment to Ms. Kristin Goetze P.E. as the DPW Engineer</p>
--

With us there are no boundaries

WATERFORD TOWNSHIP

AGENDA REQUEST FORM

Date:

To: Kim Markee, Clerk
Kari Vlaeminck, Deputy Clerk

From:

Please place the following item on the _____ agenda:

Please place this item under:

- Awards and Presentations
- Reports
- Introduction

- Old Business
- New Business
- Closed Session

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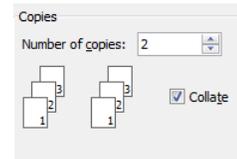


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DEPARTMENT OF PUBLIC WORKS
Russell Williams
Director
Joseph Ashley
Water & Sewer Superintendent
Justin Westlake
Facilities & Operations Superintendent
Derek Diederich
Administrative Superintendent
Frank Fisher
Engineering Superintendent

DATE: February 13, 2020
TO: Honorable Charter Township of Waterford Board of Trustees
FROM: Russell D. Williams, DPW Director *RW*
RE: Final SAW Grant Report (WWAMP)

Please see the attached Executive Summary of the WasteWater Asset Management Plan (WWAMP).

In September of 2016, Waterford Township entered a Storm water, Asset Management, and Wastewater (SAW) Grant Agreement with the Michigan Department of Environment, Great Lakes & Energy (EGLE), for the purposes of development and implementation of a WWAMP.

The grant allowed Waterford Township to invest \$1,088,125.00 with a local match of ten percent (10%) or, \$108,812.00 to conduct a collection system asset evaluation and develop a WWAMP.

The WWAMP will be the guiding document for system maintenance, capital improvements and operational investments for the next two decades.

This extensive work started in 2016 and completed late in 2019 with the final report or WWAMP. This final report is available in the Clerk's office for public review only; due to Homeland Security concerns, no copies or photos are allowed.

Accomplishments of the SAW included:

- Cleaning and televising of 176,357 feet of sewer main.
- Inspected and completed a condition assessment of 357 manholes
- Developed Level of Service Goals for Waterford Township DPW
- Purchase InfoMaster software suite for sewer Asset Management and Capital Planning
- Updated and tuned the current Sewer Modeling software and model.
- Updated the Sewer Lift Station Workbook
- Development of an Asset Management Financial Plan (AMFP)
- Development of a Wastewater Asset Management Plan (WWAMP)

Requested Board Action

Receive the Final SAW Grant Report (WWAMP)

With us there are no boundaries

EXECUTIVE SUMMARY

INTRODUCTION

Waterford Charter Township applied for and was subsequently awarded a Storm water, Asset Management, and Wastewater Grant (SAW Grant) for \$979,313 (with a local match of \$108,812) from the Environment, Great Lakes & Energy (EGLE) Department for the purposes of development and implementation of a Wastewater Asset Management Plan (WWAMP). A Grant Agreement was entered into in November 2016 with an effective grant period from November 2016 to December 2019. Please refer to Appendix A for a copy of this grant agreement. A WWAMP team consisting of Township elected officials, pertinent Township staff, and engineering and financial consultants assumed the mission to develop and implement a WWAMP. The final WWAMP report was placed on file at the Township Office and will be made available to the public for a period of 15 years, beginning in December 2019.

The Township has a responsibility to manage its wastewater assets in a cost-effective manner because:

- these assets represent a major public investment and trust;
- well-run utilities are important to economic development;
- asset management promotes efficiency and accountability in the operation of the system;
- these assets provide an essential customer service; and
- proper management of the assets provides the basis for self-sufficiency.

The assets that make up the Township's wastewater collection system depreciate over time as they age and deteriorate. As this happens, the level of service expected by Township's customers may become compromised while operation and maintenance (O&M) costs increase. The goal of the WWAMP development is to mitigate the deterioration of the assets through development of a rigorous methodology for wastewater asset management designed to meet established level of service goals in a cost-effective way through the creation, acquisition, operation, maintenance, rehabilitation, and disposal of assets. Successful execution of a WWAMP will help to ensure cost effective, efficient and accountable operations to ensure long-term sustainability.

The Township's engineering consultants, DLZ Michigan, Inc. (DLZ), were retained to implement the grant scope and develop the WWAMP for the Township. A WWAMP team was developed to oversee project development. The WWAMP team members are listed in Table 1:



now joined with Umbaugh

Baker Tilly Municipal Advisors, LLC
2852 Eyde Pkwy, Suite 150
East Lansing, MI 48823
(517) 321-0110
bakertilly.com

Charter Township of Waterford
SAW Grant
Asset Management Financial Plan
December 20, 2019

A primary goal of Asset Management is to develop a long-term plan for revenue support of capital improvements, as well as operating cost. The following Asset Management Financial Plan (AMFP) is intended to summarize the policy formulation in the areas of rate management, capital spending, and fund balance.

Methodology

A significant effort has been made by the Township and their consulting engineers to inventory assets, evaluate the infrastructure, and determine asset criticality. The result is the identification of asset investment cost by project and by year. The AMFP covers an extended forecast period to take this asset evaluation into account. The AMFP is a four step process: 1) historical comparison with audits and budgets, 2) test year, or normalized budget year, along with inflation assumptions for purposes of forecasting, 3) proof of rate to revenue for reliance on customer data, and 4) cash flow forecast including revenue, operating expense, capital spending, debt, and fund balance (i.e., actual cash and investment balance). The analysis is a “cash basis” approach as described in the AWWA Manual of Rate Making Practices. From year to year, this AMFP may be used to implement policy regarding rate management and budgeting.

Audit Comparison

One key indicator of financial health is the cash and investments found in the Comparative Statement of Net Position of the Sewer Fund. The Township has maintained this cash and investment balance at around one year compared to the cash operating expenses. Management of the cash balance will be discussed further under Forecast – Cash Balance. The Sewer Fund audited Revenues, Expenses and Changes in Net Position comparison reveals consistency in annual revenues and in annual operating expenses (excluding one-time expenditures).

Budget Comparison / Test Year

The current year budget is consistent with previous years. Certain adjustments have been made to reflect a normalized year for maintenance expenses. This has been utilized to develop the Test Year budget including expected percent inflation factors.

Proof of Rate to Revenue

The Township bills customers based on generally accepted methods. The customers are billed a minimum charge every month and they are billed on a commodity basis for the number of gallons used. The number of customers billed at the current rates tie to the revenue reflected in the audit and budget, such that we can rely on the numbers in forecasting.

Forecast - Capital Cost

Annual cost has been forecasted based on an engineering evaluation of asset inventory, condition assessment, and criticality. These are expenses not already included in the operating and maintenance budget. The forecast reflects cash-funding all projects identified by the engineers.

Forecast - Cash Balance

Our standard minimum target of cash and investment to operating expenses (net of depreciation) is six months. This minimum target is higher for a system of this size. Due to the size of the system and extent of capital improvements forecasted, the cash balance target is around one year. With the exclusive use of cash-funding capital improvements and inflationary rate increases, the system will be able to maintain an adequate amount of cash to respond to unforeseen events.

Forecast - Rate Management

The revenue needs to support operations, debt, and capital improvements while solving to cash balance. The cash flow forecast demonstrates a rate track with annual increases of 2.50% per year. Annual increases are highly recommended to keep up with expected rising expenses over time.

Management Summary

- Rates: annual increases of 2.50% yearly.
- Cash Balance: target of one year compared to cash operating expenses over forecast period to prepare for future capital improvements.
- Capital Improvements: use of cash-funding all identified capital improvements for the forecast period.

AMFP – Management Tool

The AMFP is a living document. It is most effective as a tool used annually for budget and user rate decisions.



December 20, 2019

Charter Township of Waterford
5240 Civic Center Drive
Waterford Twp, MI 48329

Baker Tilly Municipal Advisors, LLC
2852 Eyde Pkwy, Suite 150
East Lansing, MI 48823
(517) 321-0110
bakertilly.com

Re: Charter Township of Waterford (Michigan) Sewer Fund – SAW Grant – Asset Management Financial Plan

Dear Charter Township of Waterford:

The attached schedules (listed below) present unaudited and limited information for the purpose of discussion and consideration in the preliminary planning stage of a SAW financial plan by the appropriate officers, officials and advisors of the Charter Township of Waterford. The use of these schedules should be restricted to this purpose, for internal use only, as the information is subject to future revision and final report.

Page

2	Comparative Statement of Net Position
3	Comparative Statement of Revenues, Expenses, and Changes in Net Position
4-6	Comparative Detail of Operating Expenses
7	Schedule of Amortization of \$1,697,393 Principal Amount Outstanding of 2007B SRF Bonds
8	Schedule of Amortization of \$2,475,411 Principal Amount Outstanding of OMID SRF Bonds, Series 2010
9	Schedule of Amortization of \$640,061 Principal Amount Outstanding of OMID SRF Bonds, Series 2010B
10	Schedule of Amortization of \$3,350,768 Principal Amount Outstanding of OMID SRF Bonds, Series 2011
11	Schedule of Amortization of \$759,892 Principal Amount Outstanding of General Obligation Limited Tax Refunding Bonds, Series 2012
12	Schedule of Amortization of \$525,644 Principal Amount Outstanding of OMID SRF Bonds, Series 2013A
13	Schedule of Amortization of \$143,000 Principal Amount Outstanding of OMID SRF Bonds, Series 2013B
14	Schedule of Amortization of \$3,006,309 Principal Amount Outstanding of Oakland County Clinton River WRRF Bonds, Series 2017
15	Schedule of Combined Debt Service
16-17	Cash Flow Analysis

We would appreciate your questions or comments on this information and would provide additional information upon request.

Sincerely,

BAKER TILLY MUNICIPAL ADVISORS, LLC

Andy Campbell, Senior Manager

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

COMPARATIVE STATEMENT OF NET POSITION

	As of				
	<u>12/31/2014</u>	<u>12/31/2015</u>	<u>12/31/2016</u>	<u>12/31/2017</u>	<u>12/31/2018</u>
	(----- Per Audit -----)				
Assets					
Current assets:					
Cash and investments	\$13,641,854	\$13,404,260	\$16,106,900	\$16,364,164	\$17,828,069
Receivables:					
Special assessments receivable	496,752	430,833	353,916	305,557	269,220
Receivables from sales to customers on account	7,403,488	7,668,926	8,005,390	7,790,033	8,193,981
Accrued interest receivable	41,406	31,427	37,538	55,590	144,616
Due from other governmental units	-	-	5,402	11,804	-
Prepaid expenses and other assets	-	32,925	5,555	148,651	34,132
Total current assets	<u>21,583,500</u>	<u>21,568,371</u>	<u>24,514,701</u>	<u>24,675,799</u>	<u>26,470,018</u>
Noncurrent assets:					
Restricted assets	813,588	2,998,522	1,098,158	2,342,415	1,572,136
Net pension asset	-	-	-	748,095	-
Capital assets:					
Assets not subject to depreciation	30,297,310	25,067,459	24,811,045	7,937,941	10,623,742
Assets subject to depreciation	78,800,795	86,398,411	86,268,143	102,141,039	100,025,145
Total noncurrent assets	<u>109,911,693</u>	<u>114,464,392</u>	<u>112,177,346</u>	<u>113,169,490</u>	<u>112,221,023</u>
Total Assets	<u>\$131,495,193</u>	<u>\$136,032,763</u>	<u>\$136,692,047</u>	<u>\$137,845,289</u>	<u>\$138,691,041</u>
Deferred Outflows of Resources					
Deferred Pension costs	-	937,593	1,112,887	-	1,668,097
Deferred OPEB costs	-	-	-	-	196,739
Total deferred outflows of resources	<u>-</u>	<u>937,593</u>	<u>1,112,887</u>	<u>-</u>	<u>1,864,836</u>
Liabilities					
Current liabilities:					
Accounts payable	\$1,220,145	\$1,032,839	\$1,116,639	\$1,157,354	\$1,347,669
Due to other funds	-	-	290	-	-
Accrued liabilities and other	1,191,468	627,844	305,711	281,905	237,588
Compensated absences	-	189,972	193,627	195,372	224,331
Provision for claims	-	-	-	127,682	45,822
Current liabilities payable	-	162,194	150,151	-	-
Current portion of long-term debt	2,258,631	2,125,230	2,181,604	2,222,502	2,372,280
Total current liabilities	<u>4,670,244</u>	<u>4,138,079</u>	<u>3,948,022</u>	<u>3,984,815</u>	<u>4,227,690</u>
Noncurrent liabilities:					
Compensated absences	-	62,483	63,684	64,258	73,783
Provision for claims	-	72,119	61,217	20,808	4,723
Net OPEB obligation	4,124,991	5,059,486	5,851,721	6,894,125	20,270,331
Net pension liability	-	1,280,639	1,655,199	-	2,431,869
Long-term debt	30,744,226	33,975,603	32,748,201	30,556,219	29,826,790
Total noncurrent liabilities	<u>34,869,217</u>	<u>40,450,330</u>	<u>40,380,022</u>	<u>37,535,410</u>	<u>52,607,496</u>
Total Liabilities	<u>39,539,461</u>	<u>44,588,409</u>	<u>44,328,044</u>	<u>41,520,225</u>	<u>56,835,186</u>
Deferred Inflows of Resources - Related to Pensions	<u>-</u>	<u>263,757</u>	<u>280,855</u>	<u>1,196,410</u>	<u>154,718</u>
Net Position					
Net investment in capital assets	76,598,026	75,365,037	76,149,383	77,300,259	78,449,817
Restricted - Capital projects	813,588	2,998,522	1,098,158	2,342,415	1,572,136
Unrestricted	14,544,118	13,754,631	15,948,494	15,485,980	3,544,020
Total Net Position	<u>91,955,732</u>	<u>92,118,190</u>	<u>93,196,035</u>	<u>95,128,654</u>	<u>83,565,973</u>
Total Liabilities and Net Position	<u>\$131,495,193</u>	<u>\$136,706,599</u>	<u>\$137,524,079</u>	<u>\$136,648,879</u>	<u>\$140,401,159</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

COMPARATIVE STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

	Fiscal Year Ended				
	<u>12/31/2014</u>	<u>12/31/2015</u>	<u>12/31/2016</u>	<u>12/31/2017</u>	<u>12/31/2018</u>
	(----- Per Audit -----)				
Operating Revenues					
Sale of water	\$4,916,805	\$5,767,266	\$6,012,824	\$5,793,618	\$5,818,649
Sewage disposal charges	15,211,866	15,606,349	16,506,995	16,673,937	17,205,120
Other sales to customers	24,770	32,237	24,730	39,044	42,682
Other charges for services	288,726	262,479	466,141	500,839	434,160
Operating grants	10,536	-	-	-	348,335
Total operating revenue	<u>20,452,703</u>	<u>21,668,331</u>	<u>23,010,690</u>	<u>23,007,438</u>	<u>23,848,946</u>
Operating Expenses					
Cost of water	1,658,724	1,600,899	1,690,175	1,721,613	1,710,431
Cost of sewage treatment	9,005,056	9,259,783	9,166,971	9,677,724	9,980,975
Other operation and maintenance	730,739	727,738	799,509	896,008	1,041,300
Billing and administrative costs	5,525,326	5,677,345	5,847,148	5,057,079	4,795,245
Subtotal	16,919,845	17,265,765	17,503,803	17,352,424	17,527,951
Depreciation expense	3,586,054	4,022,724	4,138,057	5,062,949	5,286,323
Total operating expense	<u>20,505,899</u>	<u>21,288,489</u>	<u>21,641,860</u>	<u>22,415,373</u>	<u>22,814,274</u>
Net operating income (loss)	<u>(53,196)</u>	<u>379,842</u>	<u>1,368,830</u>	<u>592,065</u>	<u>1,034,672</u>
Non-Operating Revenue (Expenses)					
Investment income	135,605	114,119	107,899	146,368	314,230
Interest expense	(379,690)	(576,350)	(522,830)	(508,114)	(725,060)
Gain (loss) on sale of assets	11,960	-	(95,143)	101,451	12,012
Operating grants	-	-	-	469,295	-
Total non-operating revenues (expenses)	<u>(232,125)</u>	<u>(462,231)</u>	<u>(510,074)</u>	<u>209,000</u>	<u>(398,818)</u>
(Loss) Income - Before Contributions	<u>(285,321)</u>	<u>(82,389)</u>	<u>858,756</u>	<u>801,065</u>	<u>635,854</u>
Capital Contributions					
Principal forgiveness on capital debt, tap-in fees, system burden fees, and other	419,660	750,175	219,089	-	-
Capital grants	-	-	-	600,035	113,641
Benefit fees	-	-	-	303,695	345,521
Lines donated by developers	-	-	-	227,824	443,266
Change in Net Position	<u>134,339</u>	<u>667,786</u>	<u>1,077,845</u>	<u>1,932,619</u>	<u>1,538,282</u>
Net Position - Beginning of Year	<u>91,821,393</u>	<u>91,450,404</u>	<u>92,118,190</u>	<u>93,196,035</u>	<u>82,027,691</u>
Net Position - End of Year	<u>\$91,955,732</u>	<u>\$92,118,190</u>	<u>\$93,196,035</u>	<u>\$95,128,654</u>	<u>\$83,565,973</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

COMPARATIVE DETAIL OF OPERATING EXPENSES - SEWER

	Fiscal Year Ended				Test Year	Multiplier
	12/31/2017	12/31/2018	12/31/2019	12/31/2020		
	(-----Per Client-----)					
Operating Expenses						
[1] Sewer General Administration						
59044 70200 Salaries	\$362,839	\$382,741	\$372,011	\$389,873	\$389,873	2.00%
59044 70300 Wages - Part-Time/Temporary	21,598	16,330	30,000	20,000	20,000	2.00%
59044 70900 Overtime	2,558	1,875	5,000	5,000	5,000	2.00%
59044 71000 FICA	29,851	28,404	28,459	31,738	31,738	2.00%
59044 71100 Health Insurance	232,036	193,495	250,231	281,626	281,626	3.00%
59044 71150 Retiree Health	213,701	209,216	276,968	264,958	264,958	10.00%
59044 71200 Life Insurance	4,394	4,636	5,625	5,605	5,605	2.00%
59044 71250 Retiree Life Insurance	66	75	100	100	100	1.00%
59044 71300 DB - Retirement	171,890	117,296	131,571	173,445	173,445	2.00%
59044 71350 Retiree Health Trust Contributions	73,788	101,938	163,200	161,250	161,250	10.00%
59044 71400 Dental Insurance	25,028	25,841	27,097	24,445	24,445	4.00%
59044 71450 Retiree Dental Insurance	10,488	8,260	11,500	11,500	11,500	2.00%
59044 71500 Optical Insurance	2,935	3,138	-	-	-	0.00%
59044 71550 Retiree Optical Insurance	50	200	500	500	500	1.00%
59044 71600 Worker's Comp	(19,990)	6,333	13,000	22,500	22,500	2.00%
59044 71750 Long Term Disability	3,295	3,363	3,578	3,581	3,581	3.00%
59044 71780 Defined Contributions - Employer	12,908	12,467	11,811	15,884	15,884	2.00%
59044 71792 Retiree HSA - Employer Contributions	1,863	2,036	2,014	4,063	4,063	2.00%
59044 71850 OPEB - Retiree Health Care	520,702	-	-	-	-	0.00%
59044 71855 Pension Expense - GASB 68	(187,426)	-	-	-	-	0.00%
59044 72000 Tuition Reimbursement	3,562	5,672	4,000	4,000	4,000	5.00%
59044 72700 Supplies - Office	4,772	4,212	6,000	6,500	6,500	3.00%
59044 72800 Supplies - Postage	21,587	23,168	24,000	26,000	26,000	3.00%
59044 76200 Supplies - Computer	3,169	3,327	3,250	3,000	3,000	2.00%
59044 76400 Supplies - Tools	181	51	250	250	250	2.00%
59044 77400 Supplies - Gas & Oil	24,239	32,229	30,000	30,000	30,000	3.00%
59044 77700 Supplies - Uniforms	13,460	15,905	12,500	14,000	14,000	3.00%
59044 78100 Supplies - R&M-Building	4,100	2,427	5,000	5,000	5,000	5.00%
59044 78200 Supplies - R&M-Equipment	13,439	10,092	13,750	13,750	13,750	4.00%
59044 78600 Supplies - R&M-Vehicle	19,476	15,025	15,000	15,000	15,000	4.00%
59044 81300 Physical Exams	1,442	1,404	1,000	1,000	1,000	2.00%
59044 84100 Services - Legal	514	2,634	4,250	6,250	6,250	2.00%
59044 84200 Services - Auditing	14,950	14,950	11,375	13,875	13,875	2.00%
59044 84500 Services - Other Professional	55,098	82,712	107,750	107,500	107,500	2.00%
59044 84800 Services - Administration	398,020	364,459	322,302	271,168	271,168	2.00%
59044 85600 Contingency	-	-	25,000	55,000	55,000	2.00%
59045 86600 Legal settlements	-	18,500	-	3,750	3,750	0.00%
59044 86800 Computer - Licensing & Consultation	26,738	24,369	66,500	80,100	80,100	2.00%
59044 88500 Insurance	146,298	116,921	109,669	95,728	95,728	2.00%
59044 89000 Public Utilities	47,073	51,506	50,000	52,500	52,500	3.00%
59044 89400 Public Utilities - Telephone	24,464	20,783	25,000	25,000	25,000	3.00%
59045 91000 Mitigation - Water & Other	-	-	-	500	500	1.00%
59044 92110 Contr R&M - Telephone	-	-	1,250	1,250	1,250	2.00%
59044 92120 Contr R&M - Radio	-	-	250	250	250	2.00%
59044 92130 Contr R&M - Vehicle	18,824	26,553	30,000	20,000	20,000	2.00%
59044 92140 Contr R&M - Computer	93,782	73,711	87,500	79,000	79,000	2.00%
59044 92170 Contr R&M - Office Equipment	2,351	2,530	1,750	2,250	2,250	2.00%
59044 92190 Contr R&M - Building	69,675	64,697	61,750	49,250	49,250	2.00%

[1] Assumed 50% share for Sewer Fund.

[2] Depreciation Expense is removed from this report as it is performed on the cash basis.

[3] Principal and interest on debt are removed from this section of the report. These items are discussed later in the report.

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

COMPARATIVE DETAIL OF OPERATING EXPENSES - SEWER

	Fiscal Year Ended				Test Year	Multiplier
	12/31/2017	12/31/2018	12/31/2019	12/31/2020		
	(-----Per Client-----)					
Operating Expenses (Continued)						
Sewer General Administration (Continued)						
59044 95400	Miscellaneous Expense	1,155	390	625	625	2.00%
59044 95450	Refunds & Rebates	-	-	250	250	2.00%
59044 95460	Bank Service Charges	14,476	7,323	15,500	14,500	5.00%
59044 96000	Travel & Meals	8,030	4,417	7,500	7,500	2.00%
59044 96100	Conferences & Training	13,479	15,285	15,000	15,000	2.00%
59044 96500	Tax Roll Adjustments	-	-	-	-	0.00%
59044 96550	Bad Debt - Uncollectible	2,123	226	2,500	2,500	2.00%
59044 96800	Depreciation Expense	-	-	-	- [2]	0.00%
59044 97106	Capital - Building Improvements	2,604	11,730	100,000	50,000	3.00%
59044 97107	Capital - Facilities & Other Improvements	-	-	47,500	7,500	2.00%
59044 97125	Capital - Furnishings & equipment	-	24,944	-	250	2.00%
59045 97125	Capital - Personal Property	-	-	250	-	0.00%
59044 97133	Capital - Computer Equipment	-	1,880	-	25,250	2.00%
59044 97136	Capital - Vehicles	110	-	41,000	31,500	4.00%
59044 97340	Capital - Capital Lease	-	570	2,500	2,500	2.00%
	Total Sewer General Administration	2,531,753	2,162,235	2,584,385	2,555,312	2,583,064
Sewer O & M						
59054 70200	Salaries	280,732	300,807	298,681	292,345	3.00%
59054 70900	Overtime	17,715	16,483	25,000	25,000	3.00%
59054 71000	FICA	23,135	24,115	22,849	24,277	3.00%
59054 71780	Defined Contrib 1 - Employer	10,716	16,937	17,760	22,406	3.00%
59054 71792	Retiree HAS - Employer Cont.	3,004	3,412	3,703	6,721	3.00%
59054 76100	Supplies - Oper. Laterals	18,909	15,206	25,000	25,000	4.00%
59054 76300	Supplies - Oper. Pump Station	1,938	12,744	17,000	17,000	3.00%
59054 81000	Service - Sewer Treatment	9,286,248	9,609,315	9,900,000	10,110,000	4.00%
59054 89000	Public Utilities	95,910	96,661	92,000	100,000	3.00%
59054 91000	Sewer Mitigation	521	1,148	10,000	10,000	3.00%
59054 92200	Contr R&M - Operating Equip	55,207	79,681	218,500	180,000	3.00%
59054 95400	Miscellaneous Expense	712	155	500	500	3.00%
	Total Sewer O & M	9,794,747	10,176,664	10,630,993	10,813,249	
Sewer Capital Improvement						
59055 97000	Capital - Infrastructure	31,499	2,696	150,000	150,000	0.00%
59055 97010	Capital - Infra/Preservation	94,954	56,563	400,000	510,000	0.00%
59055 97125	Capital - Personal Property	-	-	80,000	80,000	0.00%
59055 97131	Capital - Oper Equip	-	-	115,000	60,000	0.00%
59055 97136	Capital - Vehicles	-	-	40,000	-	0.00%
	Total Sewer Capital Improvement	126,453	59,259	785,000	800,000	

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CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

COMPARATIVE DETAIL OF OPERATING EXPENSES - SEWER

	Fiscal Year Ended				Test Year	Multiplier
	12/31/2017	12/31/2018	12/31/2019	12/31/2020		
	(-----Per Client-----)					
Operating Expenses						
Sewer Debt						
59056 99204	Intr Exp-Srf 2013	-	-	-	- [3]	0.00%
59056 99205	Intr Exp-Omi 2013	-	-	-	- [3]	0.00%
59056 99206	Intr Exp-Sewer	-	-	-	- [3]	0.00%
59056 99207	Intr Exp-Sewer	-	-	-	- [3]	0.00%
59056 99208	Intr Exp-2011A Omi Bond	-	-	-	- [3]	0.00%
59056 99209	Intr Exp-2017 Clint Riv Swr	-	-	-	- [3]	0.00%
59056 99211	Intr Exp-Srf 2007	-	-	-	- [3]	0.00%
59056 99300	Agent Fees	-	-	-	- [3]	0.00%
	Total Sewer Debt	-	-	-	-	
Debt Service - General						
59061 99212	Intr Exp-W&S 5/12	-	-	-	- [3]	0.00%
59061 99214	Interest Exp - Erc	-	-	-	- [3]	0.00%
59061 99300	Agent Fees	-	-	-	- [3]	0.00%
	Total Debt Service - General	-	-	-	-	
Hardship						
59057 95050	Hardship Connection Payments	-	12,000	12,000	12,000	2.00%
	Total Hardship Connection Payments	-	12,000	12,000	12,000	
[1] Engineering Services						
59058 70200	Salaries	172,524	162,317	196,865	211,037	2.00%
59058 70900	Wages - Pt. Time/Temp	-	1,097	-	-	0.00%
59058 70900	Overtime	1,599	2,486	2,500	2,500	2.00%
59058 71000	FICA	12,787	12,601	15,060	16,336	2.00%
59058 71780	Defined Contribution - Employer	5,159	3,997	6,571	8,703	2.00%
59058 71792	Retiree HSA - Employer Contributions	1,480	1,079	1,335	2,611	2.00%
59058 77115	Supplies - Utility Coordination	382	45	1,500	1,500	2.00%
59058 77120	Supplies - Inflow/Infiltration	1,405	2,116	1,500	1,875	2.00%
59058 95400	Miscellaneous Expense	365	93	500	500	2.00%
	Total Engineering Services	195,699	185,830	225,830	245,061	
	Total Operating Expenses	\$12,648,652	\$12,583,988	\$14,238,208	\$14,425,621	\$13,604,124

[1] Assumed 50% share for Sewer Fund.

[2] Depreciation Expense is removed from this report as it is performed on the cash basis.

[3] Principal and interest on debt are removed from this section of the report. These items are discussed later in the report.

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$1,697,393 PRINCIPAL AMOUNT OUTSTANDING
OF SRF BONDS, SERIES 2007-B**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
-----In Dollars-----						
4/1/2019	\$1,697,393			\$13,791.34	\$13,791.34	
10/1/2019	1,697,393	1.625	\$180,000	13,791.34	193,791.34	\$207,582.68
4/1/2020	1,517,393			12,328.84	12,328.84	
10/1/2020	1,517,393	1.625	185,000	12,328.84	197,328.84	209,657.68
4/1/2021	1,332,393			10,825.71	10,825.71	
10/1/2021	1,332,393	1.625	185,000	10,825.71	195,825.71	206,651.42
4/1/2022	1,147,393			9,322.58	9,322.58	
10/1/2022	1,147,393	1.625	185,000	9,322.58	194,322.58	203,645.16
4/1/2023	962,393			7,819.45	7,819.45	
10/1/2023	962,393	1.625	190,000	7,819.45	197,819.45	205,638.90
4/1/2024	772,393			6,275.70	6,275.70	
10/1/2024	772,393	1.625	190,000	6,275.70	196,275.70	202,551.40
4/1/2025	582,393			4,731.95	4,731.95	
10/1/2025	582,393	1.625	195,000	4,731.95	199,731.95	204,463.90
4/1/2026	387,393			3,147.57	3,147.57	
10/1/2026	387,393	1.625	200,000	3,147.57	203,147.57	206,295.14
4/1/2027	187,393			1,522.57	1,522.57	
10/1/2027	187,393	1.625	187,393	1,522.57	188,915.57	190,438.14
Totals			<u>\$1,697,393</u>	<u>\$139,531.42</u>	<u>\$1,836,924.42</u>	<u>\$1,836,924.42</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$2,475,441 PRINCIPAL AMOUNT OUTSTANDING
OF OMID SRF BONDS, SERIES 2010**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
-----In Dollars-----						
4/1/2019	\$2,475,441	2.50	\$162,876	\$30,943.02	\$193,819.02	
10/1/2019	2,312,565			28,907.07	28,907.07	\$222,726.09
4/1/2020	2,312,565	2.50	167,587	28,907.07	196,494.07	
10/1/2020	2,144,978			26,812.23	26,812.23	223,306.30
4/1/2021	2,144,978	2.50	171,625	26,812.23	198,437.23	
10/1/2021	1,973,353			24,666.92	24,666.92	223,104.15
4/1/2022	1,973,353	2.50	175,663	24,666.92	200,329.92	
10/1/2022	1,797,690			22,471.13	22,471.13	222,801.05
4/1/2023	1,797,690	2.50	180,375	22,471.13	202,846.13	
10/1/2023	1,617,315			20,216.44	20,216.44	223,062.57
4/1/2024	1,617,315	2.50	185,086	20,216.44	205,302.44	
10/1/2024	1,432,229			17,902.86	17,902.86	223,205.30
4/1/2025	1,432,229	2.50	189,797	17,902.86	207,699.86	
10/1/2025	1,242,432			15,530.40	15,530.40	223,230.26
4/1/2026	1,242,432	2.50	194,509	15,530.40	210,039.40	
10/1/2026	1,047,923			13,099.04	13,099.04	223,138.44
4/1/2027	1,047,923	2.50	199,220	13,099.04	212,319.04	
10/1/2027	848,703			10,608.79	10,608.79	222,927.83
4/1/2028	848,703	2.50	204,604	10,608.79	215,212.79	
10/1/2028	644,099			8,051.24	8,051.24	223,264.03
4/1/2029	644,099	2.50	209,315	8,051.24	217,366.24	
10/1/2029	434,784			5,434.80	5,434.80	222,801.04
4/1/2030	434,784	2.50	214,700	5,434.80	220,134.80	
10/1/2030	220,084			2,751.05	2,751.05	222,885.85
4/1/2031	220,084	2.50	220,084	2,751.05	222,835.05	222,835.05
Totals			<u>\$2,475,441</u>	<u>\$423,846.96</u>	<u>\$2,899,287.96</u>	<u>\$2,899,287.96</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$640,061 PRINCIPAL AMOUNT OUTSTANDING
OF OMID RZEDB BONDS, SERIES 2010B**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
			-----In Dollars-----			
4/1/2019	\$640,061	4.70	\$39,709	\$17,776.66	\$57,485.66	
10/1/2019	600,352			16,843.50	16,843.50	\$74,329.16
4/1/2020	600,352	4.90	41,728	16,843.50	58,571.50	
10/1/2020	558,624			15,821.16	15,821.16	74,392.66
4/1/2021	558,624	5.10	43,748	15,821.16	59,569.16	
10/1/2021	514,876			14,705.59	14,705.59	74,274.75
4/1/2022	514,876	5.25	45,767	14,705.59	60,472.59	
10/1/2022	469,109			13,504.21	13,504.21	73,976.80
4/1/2023	469,109	5.45	48,459	13,504.21	61,963.21	
10/1/2023	420,650			12,183.70	12,183.70	74,146.91
4/1/2024	420,650	5.45	51,151	12,183.70	63,334.70	
10/1/2024	369,499			10,789.84	10,789.84	74,124.54
4/1/2025	369,499	5.70	53,843	10,789.84	64,632.84	
10/1/2025	315,656			9,255.31	9,255.31	73,888.15
4/1/2026	315,656	5.70	56,535	9,255.31	65,790.31	
10/1/2026	259,121			7,644.06	7,644.06	73,434.37
4/1/2027	259,121	5.90	59,901	7,644.06	67,545.06	
10/1/2027	199,220			5,876.98	5,876.98	73,422.04
4/1/2028	199,220	5.90	62,593	5,876.98	68,469.98	
10/1/2028	136,627			4,030.49	4,030.49	72,500.47
4/1/2029	136,627	5.90	66,631	4,030.49	70,661.49	
10/1/2029	69,996			2,064.88	2,064.88	72,726.37
4/1/2030	69,996	5.90	69,996	2,064.88	72,060.88	72,060.88
	Totals		<u>\$640,061</u>	<u>\$243,216.10</u>	<u>\$883,277.10</u>	<u>\$883,277.10</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$3,350,768 PRINCIPAL AMOUNT OUTSTANDING
OF OMID SRF BONDS, SERIES 2011**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
-----In Dollars-----						
4/1/2019	\$3,350,768			\$41,884.62	\$41,884.62	
10/1/2019	3,350,768	2.50	\$186,751	41,884.62	228,635.62	\$270,520.24
4/1/2020	3,164,017			39,550.23	39,550.23	
10/1/2020	3,164,017	2.50	191,709	39,550.23	231,259.23	270,809.46
4/1/2021	2,972,308			37,153.87	37,153.87	
10/1/2021	2,972,308	2.50	196,667	37,153.87	233,820.87	270,974.74
4/1/2022	2,775,641			34,695.53	34,695.53	
10/1/2022	2,775,641	2.50	200,798	34,695.53	235,493.53	270,189.06
4/1/2023	2,574,843			32,185.55	32,185.55	
10/1/2023	2,574,843	2.50	206,583	32,185.55	238,768.55	270,954.10
4/1/2024	2,368,260			29,603.26	29,603.26	
10/1/2024	2,368,260	2.50	211,540	29,603.26	241,143.26	270,746.52
4/1/2025	2,156,720			26,959.01	26,959.01	
10/1/2025	2,156,720	2.50	216,498	26,959.01	243,457.01	270,416.02
4/1/2026	1,940,222			24,252.78	24,252.78	
10/1/2026	1,940,222	2.50	222,283	24,252.78	246,535.78	270,788.56
4/1/2027	1,717,939			21,474.24	21,474.24	
10/1/2027	1,717,939	2.50	228,067	21,474.24	249,541.24	271,015.48
4/1/2028	1,489,872			18,623.40	18,623.40	
10/1/2028	1,489,872	2.50	233,025	18,623.40	251,648.40	270,271.80
4/1/2029	1,256,847			15,710.59	15,710.59	
10/1/2029	1,256,847	2.50	238,809	15,710.59	254,519.59	270,230.18
4/1/2030	1,018,038			12,725.48	12,725.48	
10/1/2030	1,018,038	2.50	245,420	12,725.48	258,145.48	270,870.96
4/1/2031	772,618			9,657.73	9,657.73	
10/1/2031	772,618	2.50	251,204	9,657.73	260,861.73	270,519.46
4/1/2032	521,414			6,517.68	6,517.68	
10/1/2032	521,414	2.50	257,815	6,517.68	264,332.68	270,850.36
4/1/2033	263,599			3,294.99	3,294.99	
10/1/2033	263,599	2.50	263,599	3,294.99	266,893.99	270,188.98
Totals			<u>\$3,350,768</u>	<u>\$708,577.92</u>	<u>\$4,059,345.92</u>	<u>\$4,059,345.92</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$759,892 PRINCIPAL AMOUNT OUTSTANDING
OF GENERAL OBLIGATION LIMITED TAX REFUNDING BONDS, SERIES 2012**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
			(-----In Dollars-----)			
5/1/2019	\$759,892			\$11,398.39	\$11,398.39	
11/1/2019	759,892	3.00	\$182,219.00	11,398.39	193,617.39	\$205,015.78
5/1/2020	577,673			8,665.10	8,665.10	
11/1/2020	577,673	3.00	189,973.00	8,665.10	198,638.10	207,303.20
5/1/2021	387,700			5,815.50	5,815.50	
11/1/2021	387,700	3.00	124,064.00	5,815.50	129,879.50	135,695.00
5/1/2022	263,636			3,954.54	3,954.54	
11/1/2022	263,636	3.00	129,879.50	3,954.54	133,834.04	137,788.58
5/1/2023	133,757			2,006.35	2,006.35	
11/1/2023	133,757	3.00	133,756.50	2,006.35	135,762.85	137,769.20
	Totals		<u>\$759,892</u>	<u>\$63,679.76</u>	<u>\$823,571.76</u>	<u>\$823,571.76</u>

Note: The Sewer Fund portion of this bond is reflected. The Water Fund and General Fund also contribute to the payment of principal and interest on this bond.

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$525,644 PRINCIPAL AMOUNT OUTSTANDING
OF OMID SRF BONDS, SERIES 2013A**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
-----In Dollars-----						
4/1/2019	\$7,280,947			\$72,809.47	\$72,809.47	
10/1/2019	7,280,947	2.00	\$390,363	72,809.47	463,172.47	\$535,981.94
4/1/2020	6,890,584			68,905.84	68,905.84	
10/1/2020	6,890,584	2.00	398,440	68,905.84	467,345.84	536,251.68
4/1/2021	6,492,144			64,921.44	64,921.44	
10/1/2021	6,492,144	2.00	406,516	64,921.44	471,437.44	536,358.88
4/1/2022	6,085,628			60,856.28	60,856.28	
10/1/2022	6,085,628	2.00	414,593	60,856.28	475,449.28	536,305.56
4/1/2023	5,671,035			56,710.35	56,710.35	
10/1/2023	5,671,035	2.00	422,669	56,710.35	479,379.35	536,089.70
4/1/2024	5,248,366			52,483.66	52,483.66	
10/1/2024	5,248,366	2.00	431,419	52,483.66	483,902.66	536,386.32
4/1/2025	4,816,947			48,169.47	48,169.47	
10/1/2025	4,816,947	2.00	439,495	48,169.47	487,664.47	535,833.94
4/1/2026	4,377,452			43,774.52	43,774.52	
10/1/2026	4,377,452	2.00	448,918	43,774.52	492,692.52	536,467.04
4/1/2027	3,928,534			39,285.34	39,285.34	
10/1/2027	3,928,534	2.00	457,667	39,285.34	496,952.34	536,237.68
4/1/2028	3,470,867			34,708.67	34,708.67	
10/1/2028	3,470,867	2.00	467,090	34,708.67	501,798.67	536,507.34
4/1/2029	3,003,777			30,037.77	30,037.77	
10/1/2029	3,003,777	2.00	475,839	30,037.77	505,876.77	535,914.54
4/1/2030	2,527,938			25,279.38	25,279.38	
10/1/2030	2,527,938	2.00	485,935	25,279.38	511,214.38	536,493.76
4/1/2031	2,042,003			20,420.03	20,420.03	
10/1/2031	2,042,003	2.00	495,357	20,420.03	515,777.03	536,197.06
4/1/2032	1,546,646			15,466.46	15,466.46	
10/1/2032	1,546,646	2.00	505,453	15,466.46	520,919.46	536,385.92
4/1/2033	1,041,193			10,411.93	10,411.93	
10/1/2033	1,041,193	2.00	515,549	10,411.93	525,960.93	536,372.86
4/1/2034	525,644			5,256.44	5,256.44	
10/1/2034	525,644	2.00	525,644	5,256.44	530,900.44	536,156.88
Totals			<u>\$7,280,947</u>	<u>\$1,298,994.10</u>	<u>\$8,579,941.10</u>	<u>\$8,579,941.10</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$143,000 PRINCIPAL AMOUNT OUTSTANDING
OF SRF BONDS, SERIES 2013B**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
-----In Dollars-----						
4/1/2019	\$3,508,000	2.00	\$180,000	\$35,080.00	\$215,080.00	
10/1/2019	3,328,000			33,280.00	33,280.00	\$248,360.00
4/1/2020	3,328,000	2.00	185,000	33,280.00	218,280.00	
10/1/2020	3,143,000			31,430.00	31,430.00	249,710.00
4/1/2021	3,143,000	2.00	185,000	31,430.00	216,430.00	
10/1/2021	2,958,000			29,580.00	29,580.00	246,010.00
4/1/2022	2,958,000	2.00	190,000	29,580.00	219,580.00	
10/1/2022	2,768,000			27,680.00	27,680.00	247,260.00
4/1/2023	2,768,000	2.00	195,000	27,680.00	222,680.00	
10/1/2023	2,573,000			25,730.00	25,730.00	248,410.00
4/1/2024	2,573,000	2.00	200,000	25,730.00	225,730.00	
10/1/2024	2,373,000			23,730.00	23,730.00	249,460.00
4/1/2025	2,373,000	2.00	205,000	23,730.00	228,730.00	
10/1/2025	2,168,000			21,680.00	21,680.00	250,410.00
4/1/2026	2,168,000	2.00	205,000	21,680.00	226,680.00	
10/1/2026	1,963,000			19,630.00	19,630.00	246,310.00
4/1/2027	1,963,000	2.00	210,000	19,630.00	229,630.00	
10/1/2027	1,753,000			17,530.00	17,530.00	247,160.00
4/1/2028	1,753,000	2.00	215,000	17,530.00	232,530.00	
10/1/2028	1,538,000			15,380.00	15,380.00	247,910.00
4/1/2029	1,538,000	2.00	220,000	15,380.00	235,380.00	
10/1/2029	1,318,000			13,180.00	13,180.00	248,560.00
4/1/2030	1,318,000	2.00	225,000	13,180.00	238,180.00	
10/1/2030	1,093,000			10,930.00	10,930.00	249,110.00
4/1/2031	1,093,000	2.00	230,000	10,930.00	240,930.00	
10/1/2031	863,000			8,630.00	8,630.00	249,560.00
4/1/2032	863,000	2.00	235,000	8,630.00	243,630.00	
10/1/2032	628,000			6,280.00	6,280.00	249,910.00
4/1/2033	628,000	2.00	240,000	6,280.00	246,280.00	
10/1/2033	388,000			3,880.00	3,880.00	250,160.00
4/1/2034	388,000	2.00	245,000	3,880.00	248,880.00	
10/1/2034	143,000			1,430.00	1,430.00	250,310.00
4/1/2035	143,000	2.00	143,000	1,430.00	144,430.00	144,430.00
Totals			<u>\$3,508,000</u>	<u>\$615,040.00</u>	<u>\$4,123,040.00</u>	<u>\$4,123,040.00</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$3,006,309 PRINCIPAL AMOUNT OUTSTANDING
OF OAKLAND COUNTY CLINTON RIVER WRRF BONDS, SERIES 2017**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
-----In Dollars-----						
4/1/2019	\$3,006,309			\$37,578.86	\$37,578.86	
10/1/2019	3,006,309	2.50	\$117,215	37,578.86	154,793.82	\$192,372.68
4/1/2020	2,889,094			36,113.67	36,113.67	
10/1/2020	2,889,094	2.50	120,273	36,113.67	156,386.41	192,500.08
4/1/2021	2,768,821			34,610.26	34,610.26	
10/1/2021	2,768,821	2.50	123,331	34,610.26	157,940.78	192,551.04
4/1/2022	2,645,491			33,068.63	33,068.63	
10/1/2022	2,645,491	2.50	126,388	33,068.63	159,456.93	192,525.56
4/1/2023	2,519,102			31,488.78	31,488.78	
10/1/2023	2,519,102	2.50	129,446	31,488.78	160,934.86	192,423.64
4/1/2024	2,389,656			29,870.70	29,870.70	
10/1/2024	2,389,656	2.50	133,013	29,870.70	162,884.19	192,754.89
4/1/2025	2,256,643			28,208.03	28,208.03	
10/1/2025	2,256,643	2.50	136,581	28,208.03	164,788.94	192,996.97
4/1/2026	2,120,062			26,500.77	26,500.77	
10/1/2026	2,120,062	2.50	139,639	26,500.77	166,139.46	192,640.23
4/1/2027	1,980,423			24,755.29	24,755.29	
10/1/2027	1,980,423	2.50	143,206	24,755.29	167,961.39	192,716.68
4/1/2028	1,837,217			22,965.21	22,965.21	
10/1/2028	1,837,217	2.50	146,774	22,965.21	169,738.72	192,703.93
4/1/2029	1,690,444			21,130.54	21,130.54	
10/1/2029	1,690,444	2.50	150,851	21,130.54	171,981.09	193,111.63
4/1/2030	1,539,593			19,244.91	19,244.91	
10/1/2030	1,539,593	2.50	154,418	19,244.91	173,662.87	192,907.78
4/1/2031	1,385,175			17,314.69	17,314.69	
10/1/2031	1,385,175	2.50	158,495	17,314.69	175,809.70	193,124.39
4/1/2032	1,226,680			15,333.50	15,333.50	
10/1/2032	1,226,680	2.50	162,572	15,333.50	177,905.55	193,239.05
4/1/2033	1,064,108			13,301.35	13,301.35	
10/1/2033	1,064,108	2.50	166,649	13,301.35	179,950.44	193,251.79
4/1/2034	897,459			11,218.24	11,218.24	
10/1/2034	897,459	2.50	170,726	11,218.24	181,944.37	193,162.61
4/1/2035	726,733			9,084.16	9,084.16	
10/1/2035	726,733	2.50	174,803	9,084.16	183,887.33	192,971.49
4/1/2036	551,930			6,899.12	6,899.12	
10/1/2036	551,930	2.50	179,390	6,899.12	186,288.97	193,188.09
4/1/2037	372,540			4,656.75	4,656.75	
10/1/2037	372,540	2.50	183,977	4,656.75	188,633.27	193,290.02
4/1/2038	188,563			2,357.04	2,357.04	
10/1/2038	188,563	2.50	188,563	2,357.04	190,920.23	193,277.27
Totals			<u>\$3,006,309</u>	<u>\$851,401.00</u>	<u>\$3,857,709.82</u>	<u>\$3,857,709.82</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

SCHEDULE OF COMBINED DEBT SERVICE - SEWER

Fiscal Year	2007B SRF Bonds	2010 OMID SRF Bonds	2010B OMID RZEDB Bonds	2011 OMID SRF Bonds	2012 Refunding Bonds	2013A OMID SRF Bonds	2013B SRF Bonds	2017 OCCR WRRF Bonds	Total
2019	\$207,582.68	\$222,726.09	\$74,329.16	\$270,520.24	\$205,015.78	\$535,981.94	\$248,360.00	\$192,372.68	\$1,956,888.57
2020	209,657.68	223,306.30	74,392.66	270,809.46	207,303.20	536,251.68	249,710.00	192,500.08	1,963,931.06
2021	206,651.42	223,104.15	74,274.75	270,974.74	135,695.00	536,358.88	246,010.00	192,551.04	1,885,619.98
2022	203,645.16	222,801.05	73,976.80	270,189.06	137,788.58	536,305.56	247,260.00	192,525.56	1,884,491.77
2023	205,638.90	223,062.57	74,146.91	270,954.10	137,769.20	536,089.70	248,410.00	192,423.64	1,888,495.02
2024	202,551.40	223,205.30	74,124.54	270,746.52		536,386.32	249,460.00	192,754.89	1,749,228.97
2025	204,463.90	223,230.26	73,888.15	270,416.02		535,833.94	250,410.00	192,996.97	1,751,239.24
2026	206,295.14	223,138.44	73,434.37	270,788.56		536,467.04	246,310.00	192,640.23	1,749,073.78
2027	190,438.14	222,927.83	73,422.04	271,015.48		536,237.68	247,160.00	192,716.68	1,733,917.85
2028		223,264.03	72,500.47	270,271.80		536,507.34	247,910.00	192,703.93	1,543,157.57
2029		222,801.04	72,726.37	270,230.18		535,914.54	248,560.00	193,111.63	1,543,343.76
2030		222,885.85	72,060.88	270,870.96		536,493.76	249,110.00	192,907.78	1,544,329.23
2031		222,835.05		270,519.46		536,197.06	249,560.00	193,124.39	1,472,235.96
2032				270,850.36		536,385.92	249,910.00	193,239.05	1,250,385.33
2033				270,188.98		536,372.86	250,160.00	193,251.79	1,249,973.63
2034						536,156.88	250,310.00	193,162.61	979,629.49
2035							144,430.00	192,971.49	337,401.49
2036								193,188.09	193,188.09
2037								193,290.02	193,290.02
2038								193,277.27	193,277.27
Totals	<u>\$1,836,924.42</u>	<u>\$2,899,287.96</u>	<u>\$883,277.10</u>	<u>\$4,059,345.92</u>	<u>\$823,571.76</u>	<u>\$8,579,941.10</u>	<u>\$4,123,040.00</u>	<u>\$3,857,709.82</u>	<u>\$27,063,098.08</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

CASH FLOW ANALYSIS - SEWER

	<u>2019</u>		<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>
		Increases Per Year									
Assumptions											
Flat rate - customers charged (quarterly)	1,996		1,996	1,996	1,996	1,996	1,996	1,996	1,996	1,996	1,996
Flat rate charge (quarterly)	\$127.44	2.50%	\$130.63	\$133.89	\$137.24	\$140.67	\$144.19	\$147.79	\$151.49	\$155.27	\$159.16
Flat rate (out of Township) - customers charged (quarterly)	50		50	50	50	50	50	50	50	50	50
Flat rate charge (out of Township) (quarterly)	\$191.16	2.50%	\$195.94	\$200.84	\$205.86	\$211.00	\$216.28	\$221.69	\$227.23	\$232.91	\$238.73
Ready to serve additional units - customers charged (quarterly)	5,454		5,454	5,454	5,454	5,454	5,454	5,454	5,454	5,454	5,454
Ready to serve rate (quarterly)	\$68.62	2.50%	\$70.34	\$72.09	\$73.90	\$75.74	\$77.64	\$79.58	\$81.57	\$83.61	\$85.70
Ready to serve - customers charged (quarterly)	24,873		24,873	24,873	24,873	24,873	24,873	24,873	24,873	24,873	24,873
Ready to serve rate (quarterly)	\$68.62	2.50%	\$70.34	\$72.09	\$73.90	\$75.74	\$77.64	\$79.58	\$81.57	\$83.61	\$85.70
Billed sewer usage (annual 100 cf)	2,144,933		2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933
Sewer usage charge (per 100 cf)	\$3.77	2.50%	\$3.86	\$3.96	\$4.06	\$4.16	\$4.27	\$4.37	\$4.48	\$4.59	\$4.71
<i>Typical Township homeowner's quarterly bill (assumes 600 cf/month)</i>	<i>\$128.94</i>		<i>\$132.16</i>	<i>\$135.47</i>	<i>\$138.85</i>	<i>\$142.33</i>	<i>\$145.88</i>	<i>\$149.53</i>	<i>\$153.27</i>	<i>\$157.10</i>	<i>\$161.03</i>
Revenues											
Flat rate	\$1,017,481		\$1,042,918	\$1,068,991	\$1,095,716	\$1,123,109	\$1,151,186	\$1,179,966	\$1,209,465	\$1,239,702	\$1,270,694
Flat rate (out of Township)	38,232		39,188	40,167	41,172	42,201	43,256	44,337	45,446	46,582	47,747
Ready to serve - additional units	1,497,014		1,534,439	1,572,800	1,612,120	1,652,423	1,693,734	1,736,077	1,779,479	1,823,966	1,869,565
Ready to serve	6,827,141		6,997,820	7,172,765	7,352,084	7,535,886	7,724,283	7,917,391	8,115,325	8,318,208	8,526,164
Sewer usage	8,086,398		8,288,558	8,495,772	8,708,167	8,925,871	9,149,018	9,377,743	9,612,187	9,852,491	10,098,804
Other (includes IWC revenue)	600,000		600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000
Total revenues	18,066,266		18,502,923	18,950,496	19,409,258	19,879,490	20,361,477	20,855,514	21,361,902	21,880,950	22,412,973
Less: Total operating expenditures	(14,238,208)		(13,604,124)	(14,177,477)	(14,724,039)	(15,294,190)	(15,889,132)	(16,510,140)	(17,158,569)	(17,835,865)	(18,543,566)
Net operating revenue	3,828,059		4,898,799	4,773,019	4,685,220	4,585,299	4,472,345	4,345,375	4,203,333	4,045,085	3,869,407
Less: Current debt service payments	(1,956,889)		(1,963,931)	(1,885,620)	(1,884,492)	(1,888,495)	(1,749,229)	(1,751,239)	(1,749,074)	(1,733,918)	(1,543,158)
Estimated cash funded OMID capital expenses	(907,000)		(1,000,000)	(1,000,000)	(1,000,000)	(1,000,000)	-	-	-	-	-
O&M - Clean and Inspect Sewer Mains	-		(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(125,000)	(125,000)	(125,000)	(125,000)
O&M - Root Control	-		(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	(15,000)	(15,000)	(15,000)	(15,000)
O&M FOG Program	-		(20,000)	(20,000)	(20,000)	(20,000)	(20,000)	(25,000)	(25,000)	(25,000)	(25,000)
Manhole Rehabilitation	-		(74,100)	(80,600)	(84,500)	(85,800)	(89,700)	(94,900)	(94,900)	(99,800)	(105,300)
Sewer Main Repairs - FCIPP	-		(669,818)	(587,933)	(775,055)	(691,505)	(807,088)	(775,663)	(846,818)	(820,875)	(742,425)
Pumping Station - Pump Replacement	-		(300,000)	(320,000)	(340,000)	(360,000)	(380,000)	(400,000)	(420,000)	(440,000)	(460,000)
Pump Station - On-Site Generators	-		(75,000)	(80,000)	(90,000)	(100,000)	(110,000)	(120,000)	(130,000)	(140,000)	(150,000)
Pumping Station - Electrical Panel Replacement	-		(50,000)	(60,000)	(70,000)	(80,000)	(90,000)	(100,000)	(110,000)	(120,000)	(130,000)
Pressure Main Repairs - FCIPP	-		(173,650)	(219,597)	(159,712)	(124,693)	(384,378)	(153,504)	(210,994)	(401,073)	(241,804)
Net cash flow	\$964,170		\$462,300	\$409,270	\$151,461	\$124,806	\$731,950	\$785,068	\$476,547	\$124,419	\$331,721
<i>Cash & investments [1]</i>	<i>\$13,322,496</i>	<i>\$14,286,666</i>	<i>\$14,748,966</i>	<i>\$15,158,236</i>	<i>\$15,309,697</i>	<i>\$15,434,503</i>	<i>\$16,166,453</i>	<i>\$16,951,521</i>	<i>\$17,428,069</i>	<i>\$17,552,488</i>	<i>\$17,884,209</i>

[1] Assumes sewer share of cash & investments is proportional to their revenue contributions to the water & sewer fund

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

(Continued)

CASH FLOW ANALYSIS - SEWER

		2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
	Increases Per Year											
Assumptions												
Flat rate - customers charged (quarterly)		1,996	1,996	1,996	1,996	1,996	1,996	1,996	1,996	1,996	1,996	1,996
Flat rate charge (quarterly)	3.50%	\$164.73	\$170.49	\$176.46	\$182.63	\$189.03	\$195.64	\$202.49	\$209.58	\$216.91	\$224.50	\$232.36
Flat rate (out of Township) - customers charged (quarterly)		50	50	50	50	50	50	50	50	50	50	50
Flat rate charge (out of Township) (quarterly)	3.50%	\$247.09	\$255.74	\$264.69	\$273.95	\$283.54	\$293.46	\$303.73	\$314.37	\$325.37	\$336.76	\$348.54
Ready to serve additional units - customers charged (quarterly)		5,454	5,454	5,454	5,454	5,454	5,454	5,454	5,454	5,454	5,454	5,454
Ready to serve rate (quarterly)	3.50%	\$88.70	\$91.80	\$95.01	\$98.34	\$101.78	\$105.34	\$109.03	\$112.85	\$116.80	\$120.88	\$125.11
Ready to serve - customers charged (quarterly)		24,873	24,873	24,873	24,873	24,873	24,873	24,873	24,873	24,873	24,873	24,873
Ready to serve rate (quarterly)	3.50%	\$88.70	\$91.80	\$95.01	\$98.34	\$101.78	\$105.34	\$109.03	\$112.85	\$116.80	\$120.88	\$125.11
Billed sewer usage (annual 100 cf)		2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933
Sewer usage charge (per 100 cf)	3.50%	\$4.87	\$5.04	\$5.22	\$5.40	\$5.59	\$5.79	\$5.99	\$6.20	\$6.42	\$6.64	\$6.87
Revenues												
Flat rate		\$1,315,169	\$1,361,199	\$1,408,841	\$1,458,151	\$1,509,186	\$1,562,008	\$1,616,678	\$1,673,262	\$1,731,826	\$1,792,440	\$1,855,175
Flat rate (out of Township)		49,418	51,147	52,937	54,790	56,708	58,693	60,747	62,873	65,074	67,351	69,708
Ready to serve - additional units		1,935,000	2,002,725	2,072,820	2,145,369	2,220,457	2,298,173	2,378,609	2,461,860	2,548,026	2,637,206	2,729,509
Ready to serve		8,824,579	9,133,440	9,453,110	9,783,969	10,126,408	10,480,832	10,847,661	11,227,329	11,620,286	12,026,996	12,447,941
Sewer usage		10,452,262	10,818,091	11,196,724	11,588,609	11,994,211	12,414,008	12,848,498	13,298,196	13,763,633	14,245,360	14,743,947
Other (includes IWC revenue)		600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000
Total revenues		23,176,427	23,966,602	24,784,433	25,630,889	26,506,970	27,413,714	28,352,194	29,323,520	30,328,844	31,369,353	32,446,280
Less: Total operating expenditures		(19,283,314)	(20,056,860)	(20,866,075)	(21,712,958)	(22,599,648)	(23,528,437)	(24,501,777)	(25,522,300)	(26,592,832)	(27,716,405)	(28,896,281)
Net operating revenue		3,893,113	3,909,742	3,918,358	3,917,931	3,907,321	3,885,277	3,850,417	3,801,220	3,736,012	3,652,948	3,549,999
Less: Current debt service payments		(1,543,344)	(1,544,329)	(1,472,236)	(1,250,385)	(1,249,974)	(979,629)	(337,401)	(193,188)	(193,290)	(193,277)	-
Estimated cash funded OMID capital expenses		-	-	-	-	-	-	-	-	-	-	-
O&M - Clean and Inspect Sewer Mains		(125,000)	(150,000)	(150,000)	(150,000)	(150,000)	(150,000)	(175,000)	(175,000)	(175,000)	(175,000)	(175,000)
O&M - Root Control		(15,000)	(20,000)	(20,000)	(20,000)	(20,000)	(20,000)	(25,000)	(25,000)	(25,000)	(25,000)	(25,000)
O&M FOG Program		(25,000)	(30,000)	(30,000)	(30,000)	(30,000)	(30,000)	(35,000)	(35,000)	(35,000)	(35,000)	(35,000)
Manhole Rehabilitation		(109,700)	(115,600)	(120,100)	(125,000)	(124,900)	(130,100)	(138,800)	(145,900)	(149,400)	(154,900)	(160,300)
Sewer Main Repairs - FCIPP		(1,012,981)	(976,072)	(1,069,528)	(1,035,714)	(1,076,800)	(1,039,259)	(1,232,647)	(1,146,812)	(1,388,771)	(1,178,159)	(1,139,338)
Pumping Station - Pump Replacement		(480,000)	(500,000)	(520,000)	(550,000)	(580,000)	(610,000)	(640,000)	(670,000)	(700,000)	(730,000)	(760,000)
Pump Station - On-Site Generators		(160,000)	(170,000)	(180,000)	(190,000)	(200,000)	(210,000)	(220,000)	(230,000)	(240,000)	(250,000)	(260,000)
Pumping Station - Electrical Panel Replacement		(140,000)	(150,000)	(160,000)	(170,000)	(180,000)	(190,000)	(200,000)	(210,000)	(220,000)	(230,000)	(240,000)
Pressure Main Repairs - FCIPP		(306,084)	(322,527)	(253,597)	(373,256)	(303,512)	(401,228)	(321,836)	(397,403)	(321,018)	(360,315)	(543,014)
Net cash flow		(\$23,995)	(\$68,786)	(\$57,102)	\$23,575	(\$7,864)	\$125,060	\$524,732	\$572,917	\$288,533	\$321,297	\$212,347
Cash & investments [1]		\$17,860,213	\$17,791,427	\$17,734,325	\$17,757,900	\$17,750,036	\$17,875,096	\$18,399,829	\$18,972,746	\$19,261,279	\$19,582,575	\$19,794,922

**Charter Township of Waterford SAW Grant
Wastewater Utilities
Level of Service Standards / Goals**

Strategic Area	LOS Driver	Level of Service Standard/Goal		Industry Standard	Performance Measures	Data	Current Rating
		Current Target	Future Target				
Wastewater Collection							
Social							
Customer Service	Customer	Maintain trust with the public, regulatory agencies, and non-government organizations	No change	NPDES Compliance	# of Complaint Calls / Year; Department Coordination Meetings; # of violations	Sewer complaint reports; Service Requests; Work Orders; Water Quality Reports	
	Customer / Self-Imposed	Proactively maintain the wastewater collection system to minimize service disruptions, SSOs, and RTB discharges	No change	Develop a Corrective Action Program (CAP) to address SSOs and RTB discharges	# of sewer backups/SSOs per year shall be less than national averages; Continue to maintain compliance with Public Act 222; Perform 80% of pump stations scheduled maintenance on schedule	# of sewer backups/SSOs; Work Orders; Grease Interceptor inspections	
	Self-Imposed	Provide efficient and timely service to customers - Respond to complaints within 24 hours of notification	No change	Within 45 days after notification (Public Act 222)	Respond to complaints within 24 hours after notification; 100% of critical reported problems or alarms will be responded to within 24 hours	Sewer complaint reports; Alarm response histories; Work Orders; SCADA logs	
Reliability	Self-Imposed	Televise and clean sewers as necessary to minimize sewer system problems	Continue to clean and televise sewers regularly; Clean and inspect gravity sewers every 10 years; Clean and inspect force main every 10 years	Inspect ALL infrastructure every 7-10 years	CCTV & Sewer Maintenance Reports and costs	CCTV reports/data; GIS	
	Regulatory / Customer	Minimize system failure - determine criticality of assets for Capital Improvement Planning	Assure funding is available to make necessary improvements to assets	SAW Grant requirement to develop criticality of assets	Criticality of Assets Report	AMP data/report	
	Self-Imposed	Maintain and replace equipment as necessary to maintain compliance and meet level of service goals	No change	SAW Grant requirement to develop level of service goals	Vehicle/Equipment maintenance & purchase costs / Year; Equipment downtime	Depreciation data; Equipment purchases; # of annual repairs and costs	
	Self-Imposed	Perform asset rehabilitation as necessary	No change	SAW Grant Implementation / Public Act 222	Project implementation; Review of previous reports/studies	Project implementation	
	Customer / Self-Imposed	Replace, repair, and maintain pump station equipment as needed to maintain continuous service	No change	NA	# of outages; CIP updates	Project implementation; Work Orders	
	Self-Imposed	Coordinate utility and road projects to minimize costs and increase efficiency	No change	NA	Department Coordination Meetings; Project Implementation	Project implementation	
Health & Safety	Regulatory	Minimize employee health and safety risks	No change	MIOSHA	100% compliance with confined space entry procedures; MIOSHA Violations, etc.	Notices of Violations; Severity of Violation	
	Customer / Self-Imposed	Protect community from hazards associated with wastewater collection system (basement backups, SSOs, traffic disturbance, etc.)	No change	Contact MDEQ within 24 hrs of SSO; Develop Corrective Action Program and design std of the 25 year/24 hour storm	# of private property backups, vehicle accidents associated with wastewater collection system; # of pump station facility intrusions	Work Orders; Incident Reports	

**Charter Township of Waterford SAW Grant
Wastewater Utilities
Level of Service Standards / Goals**

Strategic Area	LOS Driver	Level of Service Standard/Goal		Industry Standard	Performance Measures	Data	Current Rating
		Current Target	Future Target				
Wastewater Collection							
Social							
Administration Organizational Development	Self-Imposed	Improve knowledge of system components - Integrate Computer Maintenance and Management System (CMMS) into the Wastewater Collection Program (i.e. Cityworks, GIS Updates)	Implement and Maintain the CMMS Program; Continue to improve knowledge of system components	NA	CMMS implementation; Work order generation	Cityworks; GIS; Work Orders; DPW Reports	
	Self-Imposed	Optimize resources and reduce overall O&M, planning, and engineering costs	Provide adequate resources to deficient areas as necessary	NA	Department Coordination Meetings	Mtg minutes; AMP; Review of reports/studies	
Environmental							
Environmental Stewardship	Self-Imposed / Regulatory	Minimize exposure and liability from claims, enforcement, or litigation	No change	NA	# of Claims / Year	Damage Claim Payouts; Work Orders; Annual Reports	
	Customer / Self-Imposed	Reduce Inflow & Infiltration (I/I) from the system	No change	Develop Corrective Action Program and design std of the 25 year/35 hour storm	10% reductions in I/I / Year; Compare water billed versus sewage flows	Sewage Flow Reports; Sewer Modeling; Cityworks; GIS; Work Orders; DPW Reports	
Regulatory Compliance	Regulatory	100% IPP Compliance with MDEQ, GLWA, City Ordinance	No change	Industrial User (IU) Enforcement Response; IU Permitting and Reporting; Meet Wastewater Discharge Stds	# of Notice of Violations / Year	Ordinance reviews/updates; Notice of Violations; Work Orders	
Economic							
Financial	Customer / Self-Imposed	Operate in a fiscally responsible manner	Continue to operate in a fiscally responsible manner; Reduce operating costs; Provide affordable rates	SAW Grant Requirement	Rate Structure Review	Review of previous reports/studies; CIP; Master Plan; AMP data/report	
	Regulatory	Perform review of wastewater rates to balance rehabilitation efforts and encourage business development	Perform review of wastewater rates every 3-5 years	SAW Grant Requirement	Rate Structure Review; Updated Rate Structure	Review of previous reports/studies; CIP; Master Plan; AMP data/report	
	Self-Imposed	Track costs of repairing or maintaining specific assets and performance against targets	No change	NA	Cityworks implementation; Tracking reports	Cityworks implementation; Tracking reports	
	Customer / Self-Imposed	Continue to apply for and obtain grants and/or low-interest loans for capital improvement projects	No change	NA	# Awarded Grant Projects / 10 Years	Project implementation	
Mission Statement: Maintain, Improve, and Enhance Capital Infrastructure and Public Safety for the Health, Safety and Welfare of Waterford Citizens.							

 No Improvement Needed
 Acceptable
 Improvement Needed

Waterford Township
Sanitary Sewer Pumping Station Evaluation Report



December 2019

INTRODUCTION

Johnson & Anderson, Inc., a DLZ Company, (DLZ-J&A) was engaged by Waterford Township to complete an assessment of Township-owned and operated sanitary sewage pumping stations as part of a Stormwater, Asset Management, and Wastewater (SAW) Grant Implementation Project, which the Township was awarded in January 2017. As part of the project, DLZ-J&A completed field inspections at eighteen (18) of the Township's 64 pumping station locations: 3-1 Sashabaw, 3-3 Lamson, 4-1 Eagle Lake, 5-2 Longworth, 5-5 Longworth 6-1 Iris, 7-1 Caterham, 8-2 Rowley, 17-1 Forestlawn, 19-1 Donna Estates, 6-4 Dorothy Lane, 12-1 Wormer, 33-1 Millpoint, 36-2 Calvert, 36-3 Tilden, 24-1 Builders Square, 27-1 Lyford, and 27-2 Lake Tree. These 18 pumping stations were chosen for assessment because they have not yet been rehabilitated as part of the Township's maintenance schedule, and as a result, have the oldest components in the Township system. As part of the assessment, pump drawdown tests were also performed at these stations to determine their hydraulic efficiency.

The Township has an ongoing maintenance program for all 64 stations in the system where they are inspected weekly by Township staff. In addition, comprehensive inspections were performed at all 64 stations by DLZ-J&A in 2009 with a comprehensive pumping station condition report being created that served as the upgrade guidance document for the Township. Each station is equipped with continuous Supervisory Control and Data Acquisition (SCADA) capabilities including Opto22 RTU controllers and I/O to monitor and control the stations as well as radios to communicate information to and from a central monitoring site where Human Machine Interface (HMI) software displays, alarms, archives the data and displays trends for staff use.

SITE SPECIFIC CONDITIONS

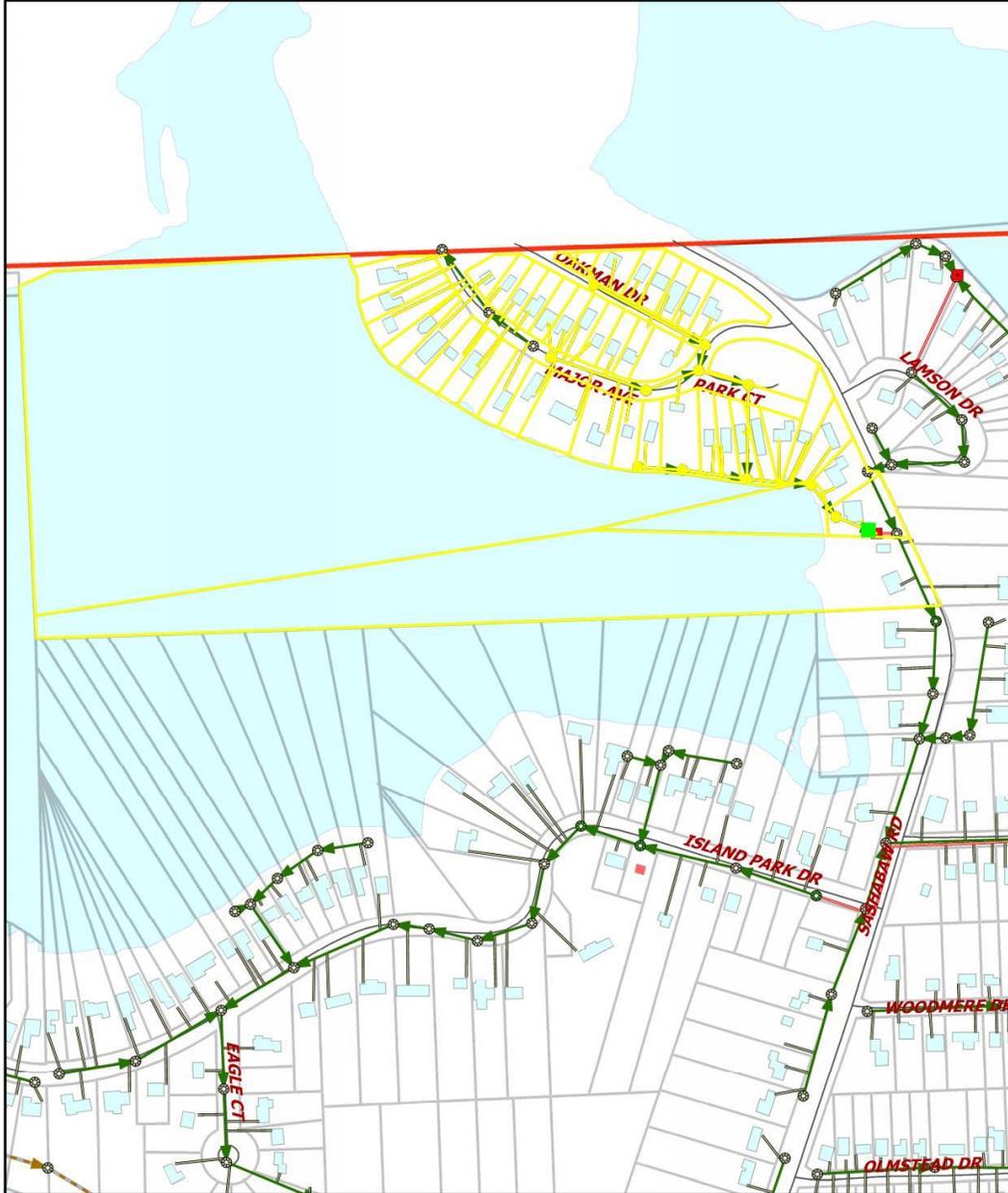
3-1 Sashabaw Pumping Station

Location and Design

3-1 Sashabaw Pumping Station is located at 4261 Sashabaw Road, south of Lamson Drive. The station was built in 1983 and has 126 sewer service connections upstream of the pumping station. It contains one (1) Pumpex K-80 pump installed in 2000 and one (1) Flygt CP-3085 Rupp pump installed in 1980. The average existing flow is 8.75 gallons per minute (GPM) with a peak ultimate flow of 38.58 GPM. Please refer to the Sewer Lift Station Contributing Area map on the following page.

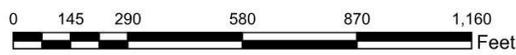


Sewer Lift Station Sashabaw (3-1) Contributing Area



Legend	
■	Sewer Lift Station
⊗	Sewer Manholes
—	Sewer Lateral Lines
—	Sewer Gravity Main
	Parcels
	Lakes

The Charter Township of Waterford



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Updated: 02/19/2009

3-3 Lamson Pumping Station

Location and Design

3-3 Lamson Pumping Station is located at 4428 Lamson Drive, east of Sashabaw Road. The station was built in 1980 and has 48 sewer service connections upstream of the pumping station. It contains two (2) pumps, two (2) Barnes pumps installed in 1980 and 2002. The average existing flow is 3.33 gallons per minute (GPM) with a peak ultimate flow of 14.39 GPM. Please refer to the Sewer Lift Station Contributing Area map on the following page.



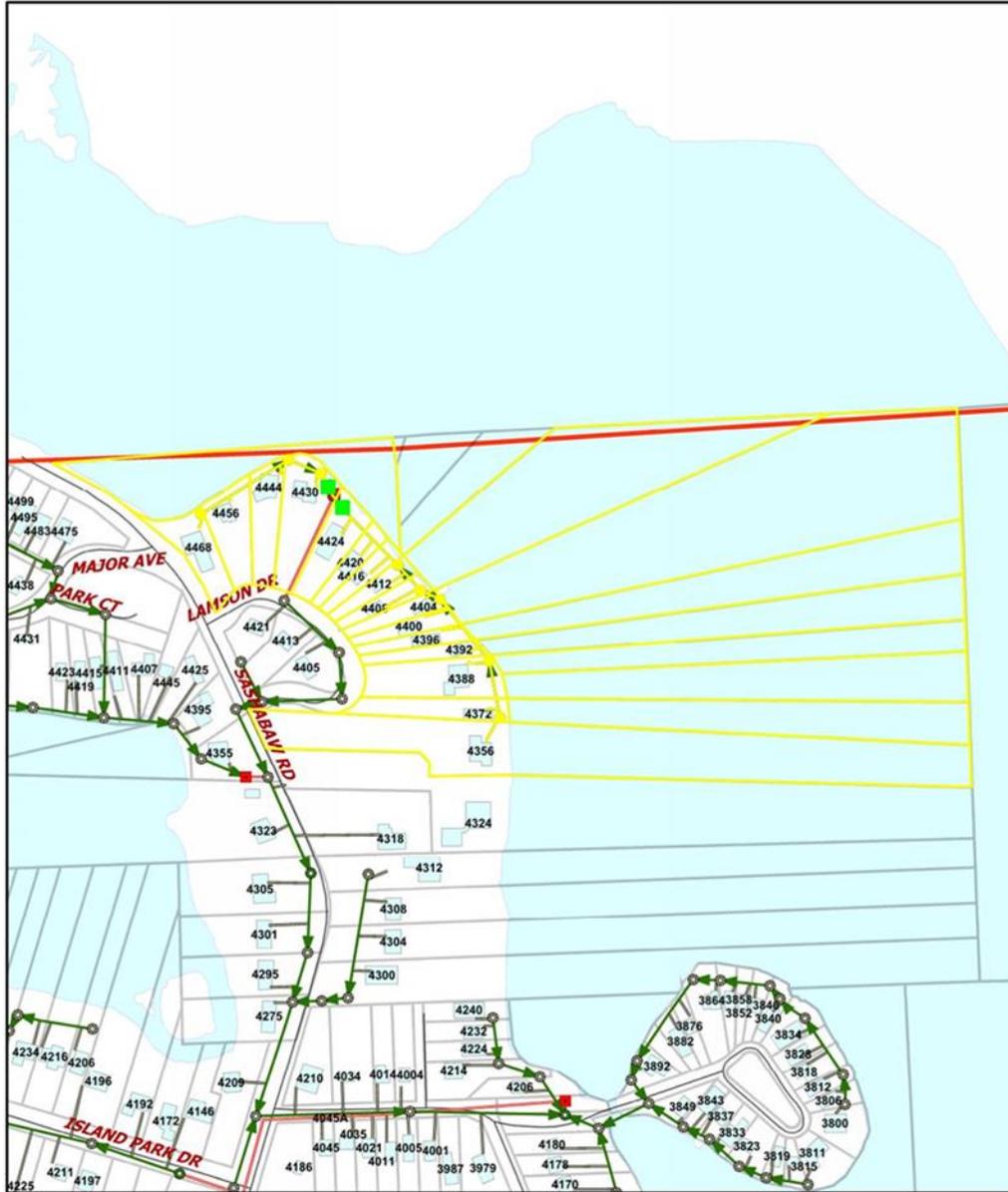
4-1 Eagle Lake Pumping Station

Location and Design

The 4-1 Eagle Lake Station is located east at 5178 Eagle Lake Drive, northeast of Dixie Highway. The station was built in 1983 and has 551 sewer service connections upstream of the pumping station. It contains two (2) Vaughn Chopper pumps, installed in 1998 and 2018. The average existing flow is 38.25 gallons per minute (GPM) with a peak ultimate flow of 340.70 GPM. Please refer to the Sewer Lift Station Contributing Area map on Page 5.



Sewer Lift Station Lameson (3-3) Contributing Area



Legend

- Sewer Lift Station
- Sewer Manholes
- Sewer Lateral Lines
- Sewer Gravity Main
- Parcels
- Lakes

The Charter Township of Waterford



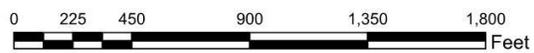
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Updated: 02/19/2009

Sewer Lift Station Eagle Lake (4-1) Contributing Area



Legend	
	SewerManholes
	SewerLateralLines
	SewerGravityMain
	Sewer Lift Station
	Parcels
	Lakes

The Charter Township of Waterford



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Updated: 02/19/2009

5-2 Longworth Pumping Station

Location and Design

The 5-2 Longworth Pumping Station is located at 6640 Longworth Drive, west of Macedy Drive. The station was built in 1979 and has 426 sewer service connections upstream of the pumping station. It contains two (2) Fairbanks-Morse pumps installed in 1998 and 2014. The average existing flow is 29.58 gallons per minute (GPM) with a peak ultimate flow of 147.60 GPM. Please refer to the Sewer Lift Station Contributing Area map on the following page.



5-5 Longworth Pumping Station

The 5-5 Longworth Pumping Station is located at 6862 Longworth Drive, north of Maceday Hill Circle. The station was built in 1978, rehabilitated in 2006, and has 9 sewer service connections upstream of the pumping station. It contains two (2) Barnes pumps installed in 2006. The average existing flow is 0.63 gallons per minute (GPM) with a peak ultimate flow of 2.76 GPM. Please refer to the Sewer Lift Station Contributing Area map on Page 8.



Sewer Lift Station Longworth (5-2) Contributing Area



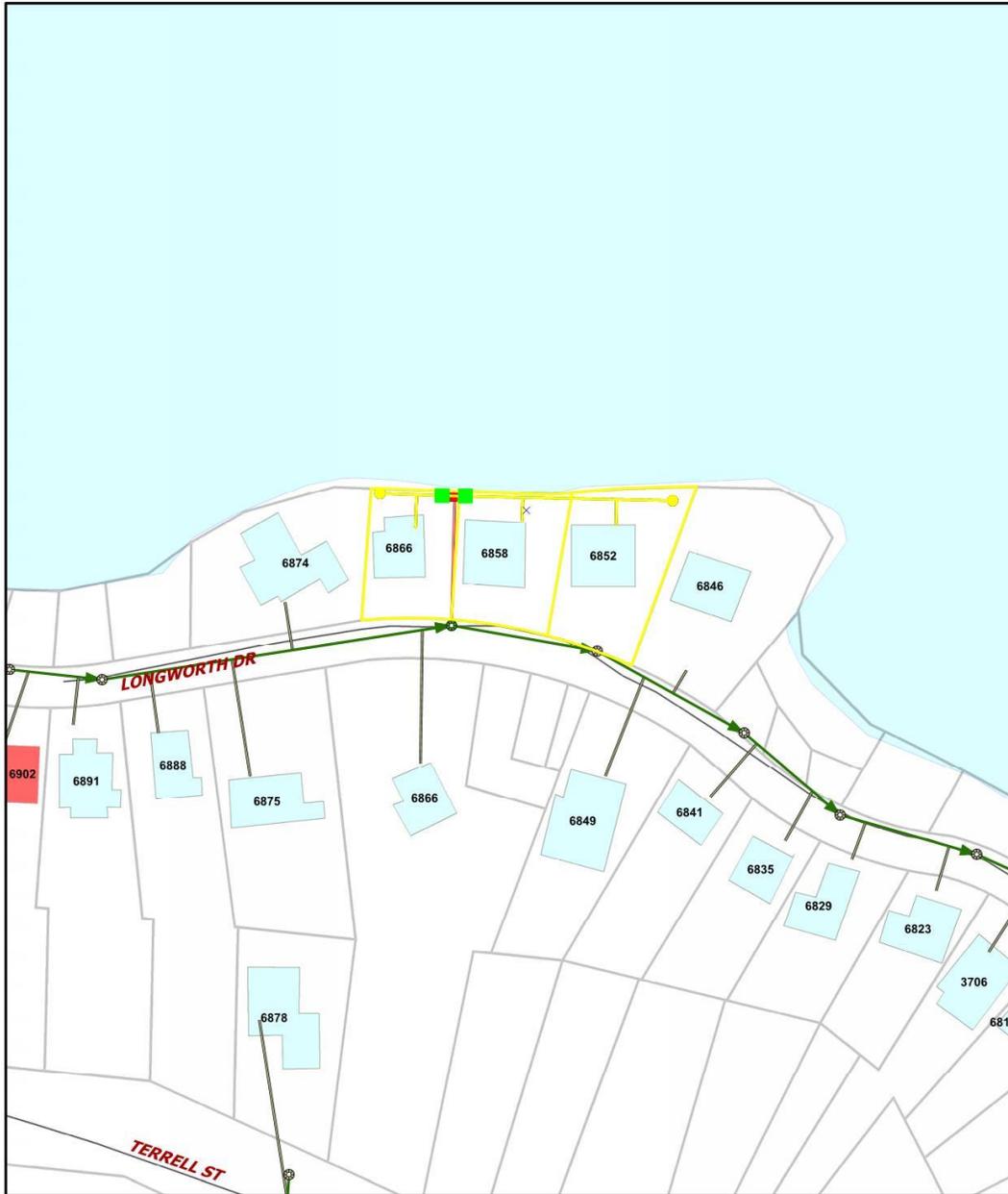
Legend	
■	Sewer Lift Station
●	Sewer Manholes
—	Sewer Lateral Lines
—	Sewer Gravity Main
—	Sewer Pressurized Main
	Parcels
	Lakes

The Charter Township of Waterford



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Updated: 02/19/2009

Sewer Lift Station Longworth (5-5) Contributing Area



Legend	
■	Sewer Lift Station
	Sewer Manholes
	Sewer Lateral Lines
	Sewer Gravity Main
	Parcels
	Lakes

The Charter Township of Waterford



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Updated: 02/19/2009

6-1 Iris Pumping Station

Location and Design

The 6-1 Iris Pumping Station is located at 3870 Iris Drive, east of Maiden Street. The station was built in 1978 and has 165 sewer service connections upstream of the pumping station. It contains two (2) Fairbanks-Morse pumps, installed in 2017. The average existing flow is 11.46 gallons per minute (GPM) with a peak ultimate flow of 53.73 GPM. Please refer to the Sewer Lift Station Contributing Area map on the following page.



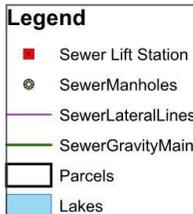
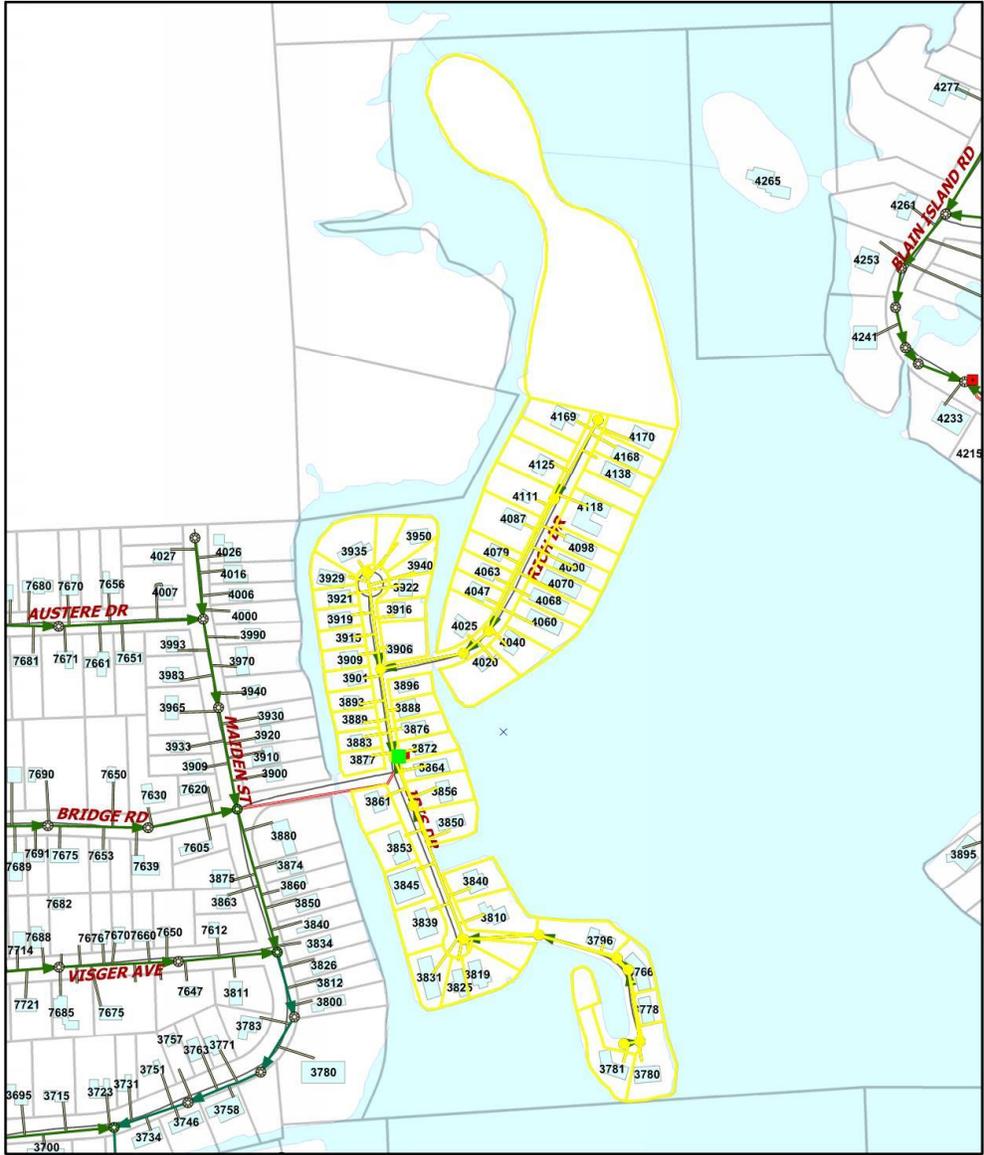
7-1 Caterham Pumping Station

Location and Design

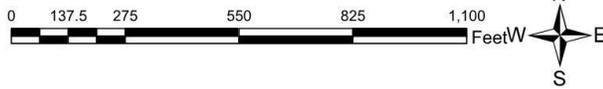
The 7-1 Caterham Pumping Station is located at 2835 Caterham Drive, west of Riverglass Road. The station was built in 1977 and has 291 sewer service connections upstream of the pumping station. It contains two (2) Flygt pumps installed in 2015. The average existing flow is 20.21 gallons per minute (GPM) with a peak ultimate flow of 84.16 GPM. Please refer to the Sewer Lift Station Contributing Area map on Page 11.



Sewer Lift Station Iris (6-1) Contributing Area



The Charter Township of Waterford



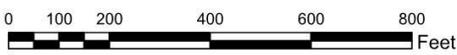
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Updated: 02/19/2009

Sewer Lift Station Caterham (7-1) Contributing Area



Legend	
■	Sewer Lift Station
●	Sewer Manholes
—	Sewer Lateral Lines
—	Sewer Gravity Main
	Parcels
	Lakes

The Charter Township of Waterford



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Updated: 02/19/2009

8-2 Rowley Pumping Station

Location and Design

The 8-2 Rowley Pumping Station is located at 6722 Rowley Drive, northwest of Williams Lake Road. The station was built in 1978 and has 507 sewer service connections upstream of the pump station. It contains two (2) Flygt CP-3101 pumps installed in 1980. The average existing flow is 32.21 gallons per minute (GPM) with a peak ultimate flow of 152.26 GPM. Please refer to the Sewer Lift Station Contributing Area map on the following page.



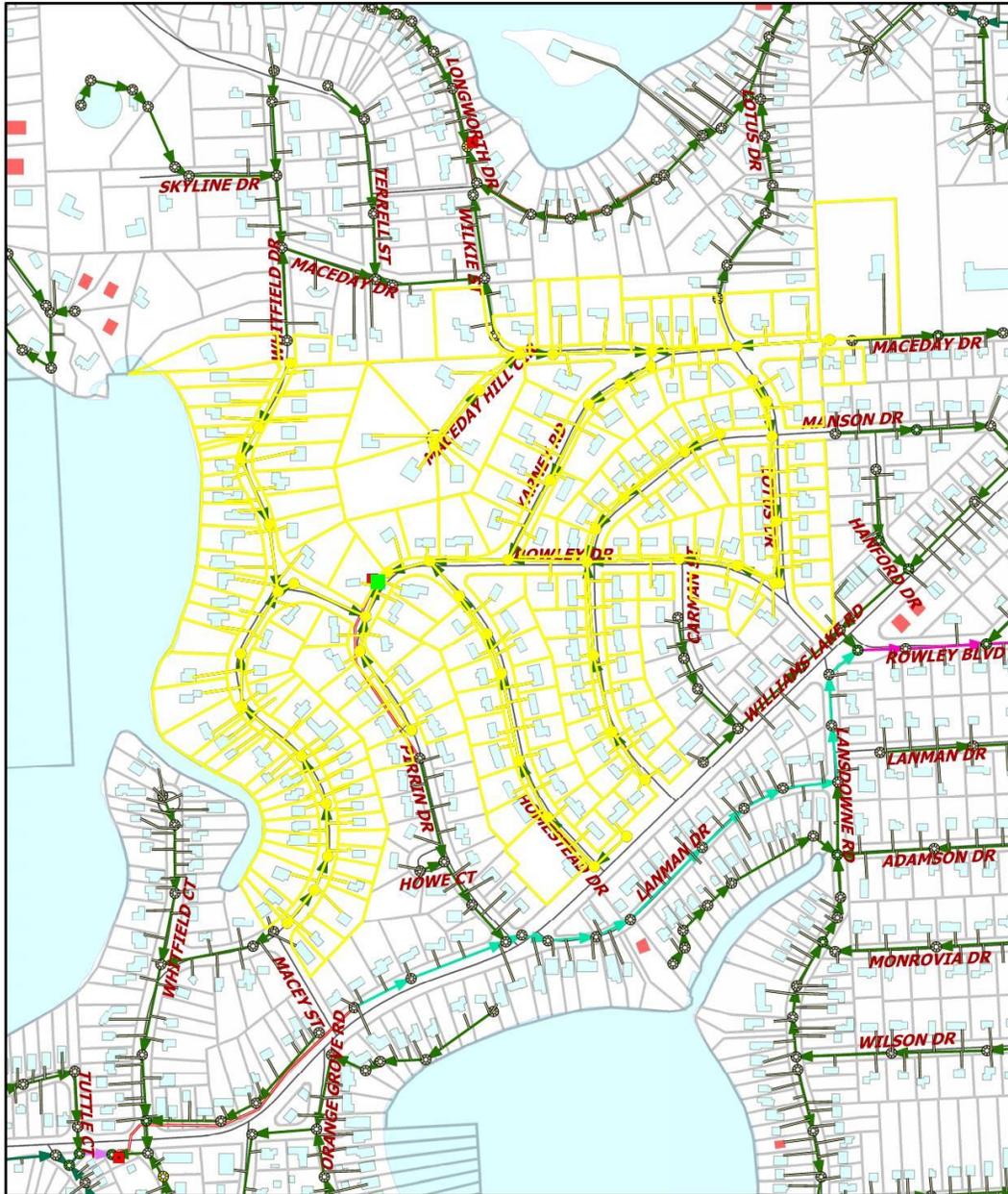
17-1 Forestlawn Pumping Station

Location and Design

The 17-1 Forestlawn Pumping Station is located at 6805 Forestlawn. The station was built in 1978 and has 1106 sewer service connections upstream of the pumping station. It contains one (1) Flygt CP-3126 pump and one (1) Vaughn S4P-106 pump, installed in 1981 and 2001. The average existing flow is 76.85 gallons per minute (GPM) with a peak ultimate flow of 325.14 GPM. Please refer to the Sewer Lift Station Contributing Area map on Page 14.

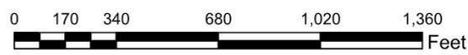


Sewer Lift Station Rowley (8-2) Contributing Area



Legend	
■	Sewer Lift Station
⊙	Sewer Manholes
—	Sewer Lateral Lines
—	Sewer Gravity Main
	Parcels
	Lakes

The Charter Township of Waterford



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Updated: 02/19/2009

Sewer Lift Station Forestlawn (17-1) Contributing Area



Legend

- Sewer Lift Station
- ⊙ SewerManhole
- SewerLateralLine
- SewerGravityMain
- SewerPressurizedMain
- ▭ Parcels
- ▭ Lakes

The Charter Township of Waterford



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Updated: 02/19/2009

19-1 Donna Estates Pumping Station

Location and Design

The 19-1 Donna Estates Station is located at 194 Donna Ct. The station was built in 2002 and has 18 sewer service connections upstream of the pumping station. It contains two (2) Fairbanks-Morse pumps installed in 2002. The average existing flow is 1.25 gallons per minute (GPM) with a peak ultimate flow of 9.07 GPM. Please refer to the Sewer Lift Station Contributing Area map on the following page.



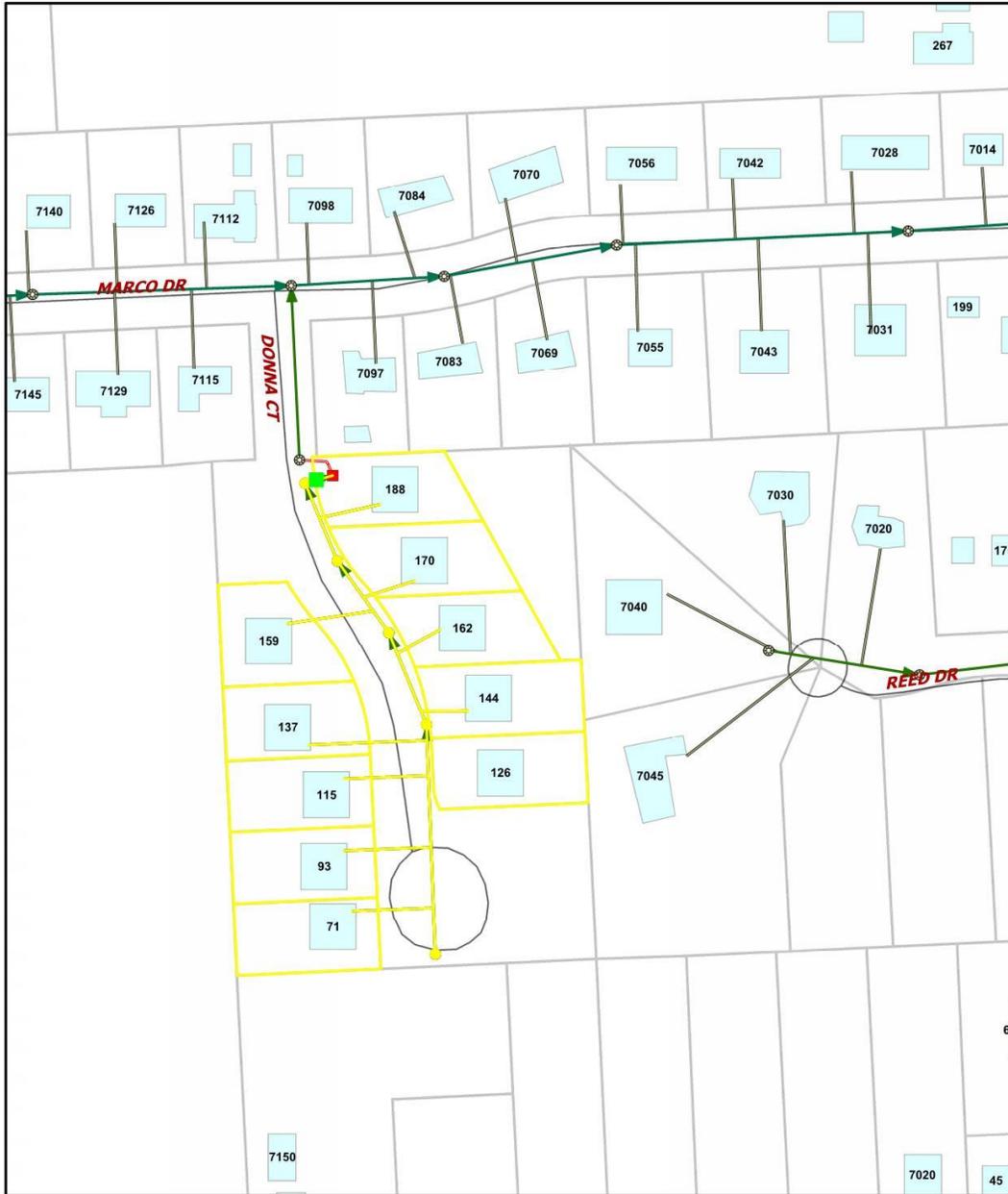
6-4 Dorothy Lane Pumping Station

Location and Design

The 6-4 Dorothy Lane Pumping Station is located at 3645 Dorothy Lane. The station was built in 1978, rehabilitated in 2003, and has 33 sewer service connections upstream of the pumping station. It contains two (2) Barnes pumps installed in 2003. The average existing flow is 2.29 gallons per minute (GPM) with a peak ultimate flow of 20.53 GPM. Please refer to the Sewer Lift Station Contributing Area map on Page 17.



Sewer Lift Station Donna Estates (19-1) Contributing Area



Legend	
■	Sewer Lift Station
⊗	Sewer Manholes
—	Sewer Lateral Line
—	Sewer Gravity Main
	Parcels
	Lakes

The Charter Township of Waterford



Filepath: U:\MT\Twp\public\Projects\Sewer Lift Stations\SewerL_S_19-1_Anoka_2009-02.mxd
Updated: 02/19/2009

Sewer Lift Station Dorothy Lane (6-4) Contributing Area



Legend

- Sewer Lift Station
- ⊙ Sewer Manholes
- Sewer Lateral Lines
- Sewer Gravity Main
- Parcels
- Lakes

The Charter Township of Waterford



Filepath: U:\MT\arj\public\Projects\Sewer Lift Stations\Sewer_L_S_6-4_DorothyLane_2009-02.mxd
Updated: 02/19/2009

12-1 Wormer Pumping Station

Location and Design

The 12-1 Wormer Pumping Station is located 3277 Wormer Drive. The station was built in 1975 and has 75 sewer service connections upstream of the pumping station. It contains two (2) P.E.C. FA80-418 pumps installed in 1975. The average existing flow is 5.21 gallons per minute (GPM) with a peak ultimate flow of 23.14 GPM. Please refer to the Sewer Lift Station Contributing Area map on the following page.



33-1 Millpoint Pumping Station

Location and Design

The 33-1 Millpoint Pumping Station is located at 5619 Millpoint Drive. The station was built in 1996 and has 189 sewer service connections upstream of the pumping station. It contains two (2) ABS M70/4-22 pumps installed in 1996. The average existing flow is 13.13 gallons per minute (GPM) with a peak ultimate flow of 85.78 GPM. Please refer to the Sewer Lift Station Contributing Area map on Page 20.

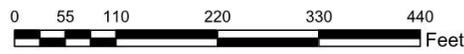


Sewer Lift Station Wormer(12-1) Contributing Area



Legend	
■	Sewer Lift Station
S	Sewer Manhole
—	Sewer Lateral Lines
—	Sewer Gravity Main
	Parcels
	Lakes

The Charter Township of Waterford



Filepath: U:\M\Twp\public\Projects\Sewer Lift Stations\SewerLS_12-1_Wormer_2009-02.mxd
Updated: 02/19/2009

36-2 Calvert Pumping Station

Location and Design

The 36-2 Calvert Pumping Station is located at 132 Calvert. The station was built in 1998 and has 4377 sewer service connections upstream of the pump station. It contains two (2) Vaughn pumps installed in 1998. The average existing flow is 304.02 gallons per minute (GPM) with a peak ultimate flow of 1002.65 GPM. Please refer to the Sewer Lift Station Contributing Area map on the following page.



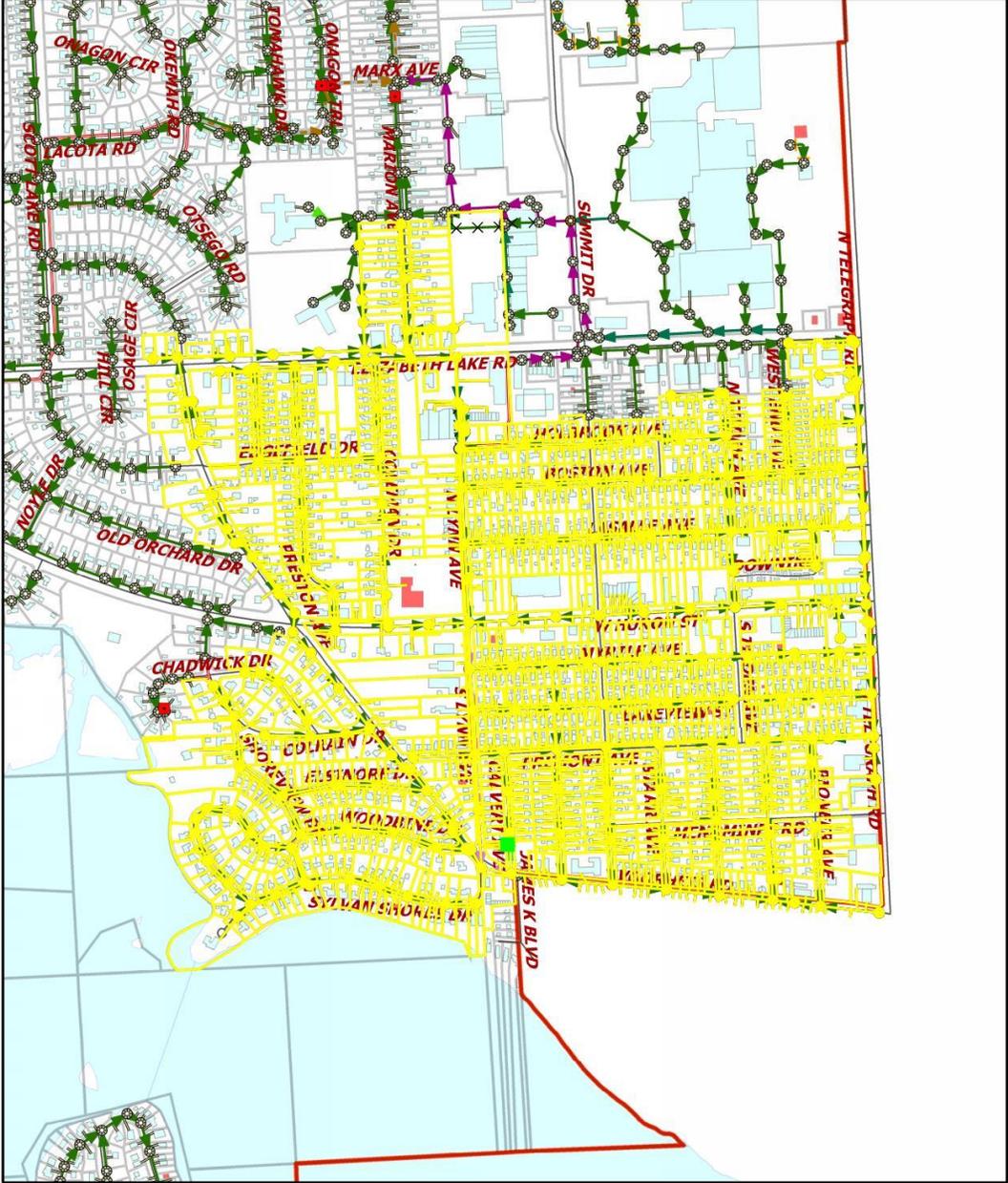
36-3 Tilden Pumping Station

Location and Design

The 36-3 Tilden Pumping Station is located at 141 Tilden Street, west of S. Telegraph. The station was built in 1999 and has 1674 sewer service connections upstream of the pumping station. It contains two (2) Vaughn pumps installed in 1999. The average existing flow is 116.25 gallons per minute (GPM) with a peak ultimate flow of 423.68 GPM. Please refer to the Sewer Lift Station Contributing Area map on Page 23.



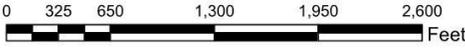
Sewer Lift Station Calvert (36-2) Contributing Area



Legend

- Sewer Lift Station
- ⊗ SewerManholes
- SewerLateralLines
- SewerGravityMain
- SewerPressurizedMain
- Parcels
- Lakes

The Charter Township of Waterford



Filepath: U:\MTInfo\public\Projects\Sewer Lift Stations\Sewer_L5_36-2_Calvert_2009-02.mxd
Updated: 02/19/2009

24-1 Builders Square Pumping Station

Location and Design

The 24-1 Builders Square Pumping Station is located at 505 Summit Drive, south of Pontiac Lake Road. The station was built in 1999 and has 371 sewer service connections upstream of the pumping station. It contains two (2) Vaughn pumps installed in 1999 and 2003. The average existing flow is 26.00 gallons per minute (GPM) with a peak ultimate flow of 157.60 GPM. Please refer to the Sewer Lift Station Contributing Area map on the following page.



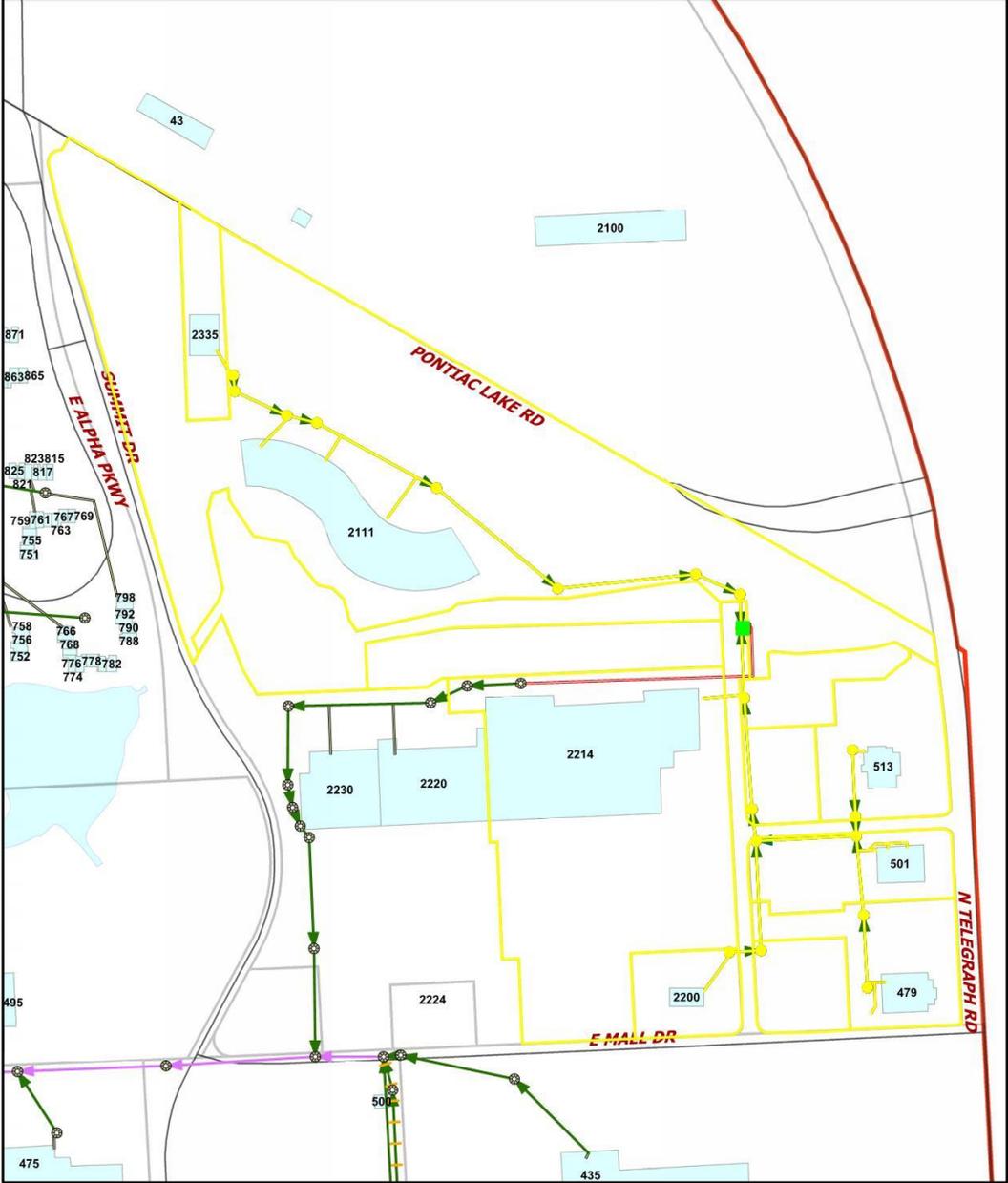
27-1 Lyford Pumping Station

Location and Design

The 27-1 Lyford Pumping Station is at 31 Lyford, north of Elizabeth Lake Road. The station was built in 1980 and has 1200 sewer service connections upstream of the pump station. It contains one (1) ABS 0303A pump installed in 1980 and one (1) Pumpex pump with an unknown install date. The average existing flow is 83.40 gallons per minute (GPM) with a peak ultimate flow of 419.39 GPM. Please refer to the Sewer Lift Station Contributing Area map on Page 26.

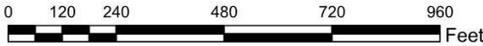


Sewer Lift Station Builders Square (24-1) Contributing Area



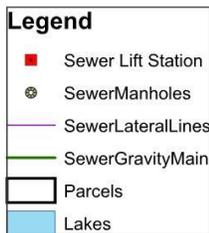
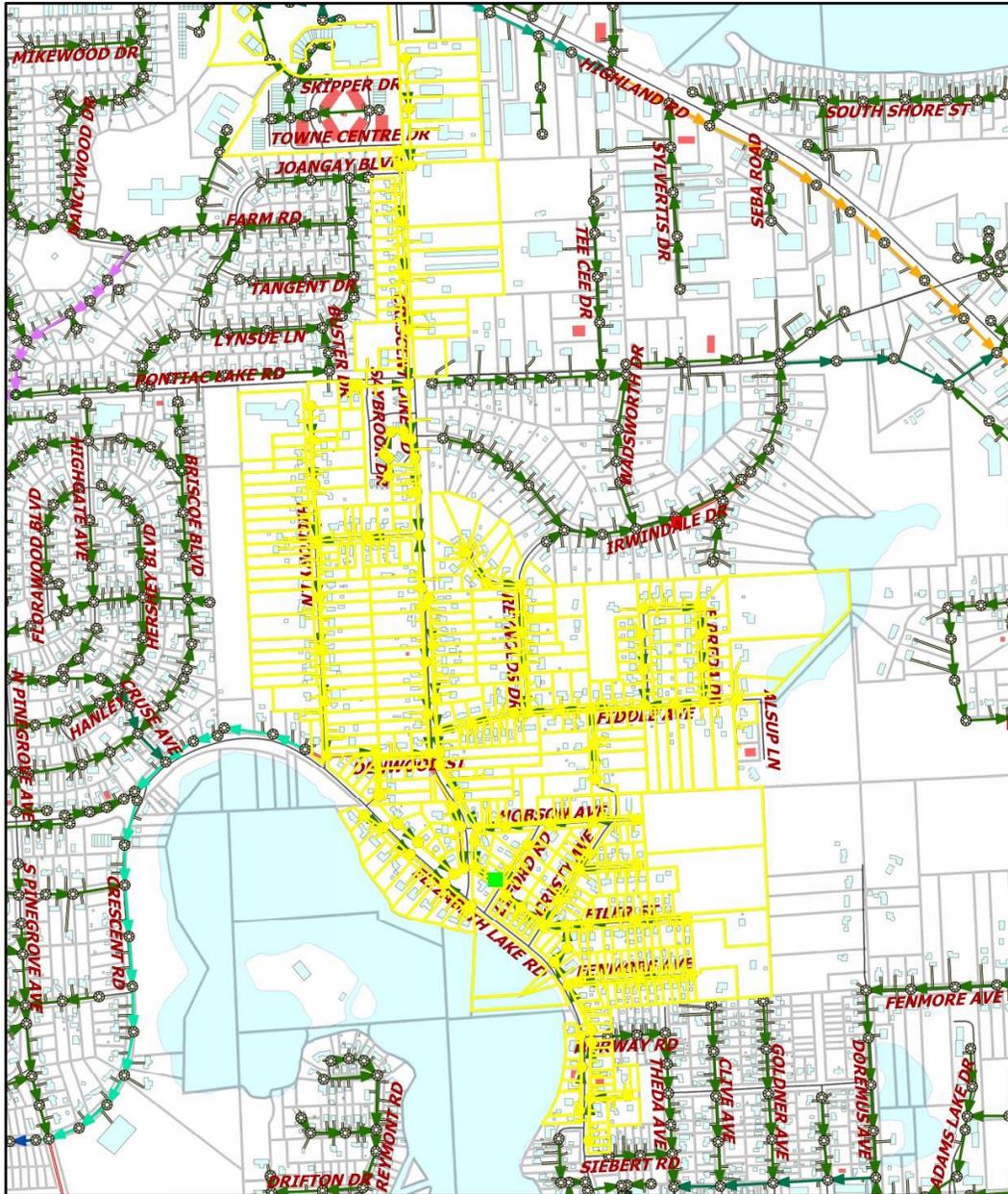
Legend	
■	Sewer Lift Station
⊗	Sewer Manholes
—	Sewer Lateral Lines
—	Sewer Gravity Main
	Parcels
	Lakes

The Charter Township of Waterford



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Updated: 02/19/2009

Sewer Lift Station Lyford (27-1) Contributing Area



The Charter Township of Waterford



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Updated: 02/19/2009

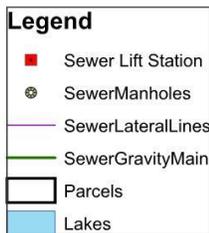
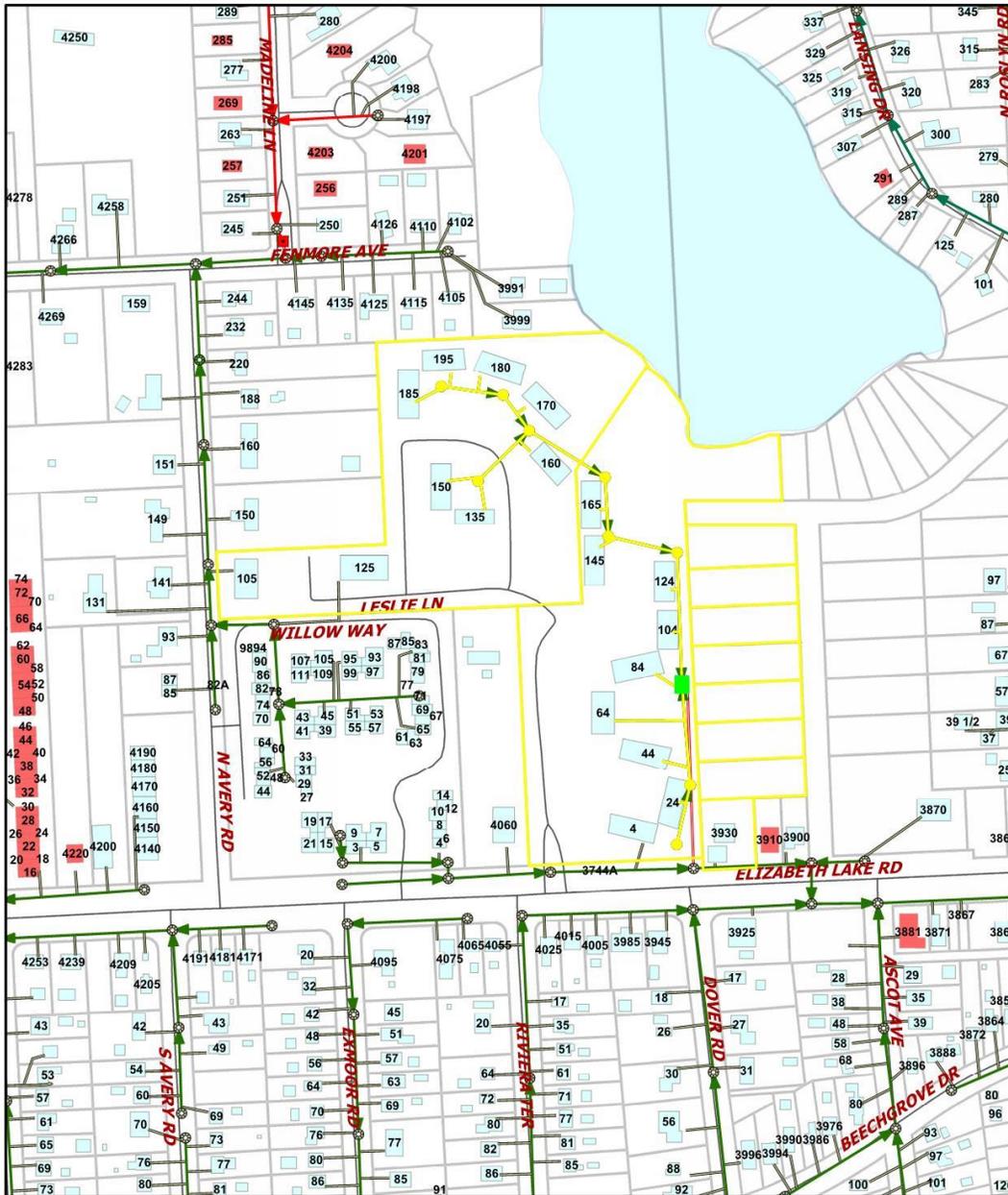
27-2 Lake Tree Pumping Station

Location and Design

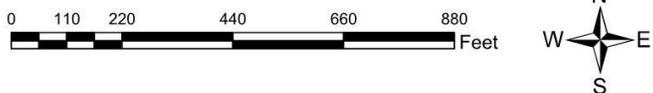
The 27-2 Lake Tree Pumping Station is located at 94 Leslie Lane, north of Elizabeth Lake Road. The station was built in 2007 and has 502 sewer service connections upstream of the pump station. It contains two (2) Vaughn pumps installed in 2007. The average existing flow is 34.79 gallons per minute (GPM) with a peak ultimate flow of 141.38 GPM. Please refer to the Sewer Lift Station Contributing Area map on the following page.



Sewer Lift Station Laketree Apts (27-2) Contributing Area



The Charter Township of Waterford



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Updated: 02/19/2009

CONDITION OF ASSETS

The following tasks were performed to complete the pumping station evaluations:

1. Collection and review of available record plan and design information;
2. Execution of field visits to document existing conditions at each pumping station;
3. Development of a pump station inventory, qualitative condition assessment and risk rating for each pump station component;
4. Preparation of a Capital Improvement Plan (CIP) to outline equipment replacement and other updates as well as estimated costs over the 20-year planning period for each pump station.

Each of the following pumping station components, as well as site information, was evaluated by DLZ-J&A and Township staff in November 2019 with a replacement plan of action developed for each pumping station reviewed. The twenty-three (23) pumping station components, where applicable, reviewed for each station are listed as follows:

1. Controls - Instrumentation, Control Panel, and Cabinet
2. Controls - Level Control System
3. Controls - Actuator
4. Electrical - General
5. Electrical - Transformer
6. Electrical - On Site Generator/ Portable Generator Connection- Emergency Power
7. Electrical - Motor Control Center
8. Equipment - General
9. Equipment - Motor and Variable Speed Control
10. Equipment - Compressor
11. Equipment - Communications/Antenna Structures, Telemetry
12. Equipment - Bypass Pump Connection
13. Equipment - Discharge Pressure Gauges
14. Heating, Ventilation and Cooling (HVAC) - Forced Air and Ventilation
15. Piping
16. Pump System - Pump #1
17. Pump System - Pump#2
18. Pump System - Meter
19. Site Conditions - General, including Structure
20. Site Conditions - Fence, where present
21. Site Conditions - Security and Access
22. Structure/Equipment - Wet Well and Appurtenances
23. Structure/Equipment - Valve Vault and Valve

If critical components were missing, deficiencies were noted.

Although the focus of the pumping station evaluations was related to condition assessment, information on past pumping station maintenance was also obtained and evaluated from the Township's maintenance records. Currently, pumping station upgrades are addressed on an as-needed basis. Pumps are maintained and/or replaced when a problem or failure occurs. Please refer to Table 1 for current information on the pumps of each station.

Table 1 – Remaining Pump Useful Life

Pumps	Pump Install Date Assumed (year)	Remaining Useful Life in Years (Based on Typical Useful Life of 15 years)
3-1 Sashabaw	2000/1980	---
3-3 Lamson	2002/1980	---
4-1 Eagle Lake	1998/2018	---/14
5-2 Longworth	1998/2014 (major rehab on Pump 1 in 2010)	----/10
5-5 Longworth	2006	2
6-1 Iris	2017	13
7-1 Caterham	2015	11
8-2 Rowley	1980	---
17-1 Forestlawn	1981/2001	---
19-1 Donna Estates	2002	---
6-4 Dorothy Lane	2003	----
12-1 Wormer	1975	---
33-1 Millpoint	1996	---
36-2 Calvert	1998	---
36-3 Tilden	1999	---
24-1 Builder Square	2003/1999	---
27-1 Lyford	1980/?	---
27-2 Lake Tree	2007	3

PUMPING STATION OBSERVATIONS, DEFICIENCIES & RECOMMENDATIONS

3-1 Sashabaw Pumping Station

- The valve pit was full of water; therefore, the valves could not be observed.
- The SCADA panel is in fair condition; some weathering observed on the latches.
- The bottom of the control panel has interior surface rust.
- The pump rails and float bracket inside the wet well have been replaced.
- The wet well hatch is in fair condition, but the hold open bracket is missing.

3-3 Lamson Pumping Station

- The valve pit was full of water. The PVC valves, bypass connection, and piping were visible and appeared to be in good condition.
- The SCADA panel is in fair condition, with some weathering observed on the latches.
- The bottom of the control panel has minor interior rust; electrical contacts in good condition.
- The pump rails and float bracket inside the wet well are in good condition.
- The well hatch is in good condition.
- The accumulated grease buildup should be removed from the wet well and pump rails.
- The protective cover over the local disconnect switch at the wet well needs to be replaced.

4-1 Eagle Lake Pumping Station

- The valves appear to be in good condition.
- The SCADA panel is in fair condition; with some weathering observed on the latches.
- The bottom of the control panel has minor interior rust; electrical contacts in good condition.
- The pump rails and float bracket inside the wet well have been replaced.
- The wet well hatch is in fair condition.

5-2 Longworth Pumping Station

- The valve pit is buried below landscaping, so the valves could not be observed. The access cover to the valve pit should be exposed and maintained free from obstruction.
- The SCADA panel is in fair condition; with some weathering observed on the latches.
- Repairs have been made to the control panel, due to areas rusting completely through; electrical contacts are in good condition.
- The pump rails and float bracket inside the wet well have been replaced.
- The wet well hatch has been replaced with a surface mount aluminum hatch including safety grates.

5-5 Longworth Pumping Station

- The valve pit was not accessible, due to landscaping covering it. Access should be maintained to the valve pit.
- The SCADA panel is in fair condition; with some weathering observed on the latches.

- There is interior surface rust on the door and hinges of the control panel; the electrical contacts are in good condition.
- The pump rails and float bracket inside the wet well are in good condition.
- The wet well hatch is in good condition, but the hold open bracket is missing.

6-1 Iris Pumping Station

- The valve pit was not accessible, due to landscaping covering it. Access should be maintained to the valve pit.
- The SCADA panel is in fair condition; with some weathering observed on the latches.
- There is interior surface rust on the door and hinges of the control panel; the electrical contacts are in good condition.
- The pump rails and float brackets inside the wet well have been replaced.
- The wet well hatch has been replaced with a surface mount aluminum hatch with safety grates.

7-1 Caterham Pumping Station

- The valve pit appears to be in good condition.
- The SCADA panel is in fair condition; with some weathering observed on the latches.
- The pump rails and float brackets inside the wet well have been replaced.
- The wet well hatch was recently replaced with a surface mount aluminum hatch which includes safety grates. The replacement hatch is only held down with 2 expansion anchors and the hatch rattles when stepped on. A gasket and additional anchor bolts should be installed to properly secure the hatch and to prevent surface water inflow to the wet well.
- There are 3 PVC pipe penetrations in the top of the wet well; 1 is plugged with grout, 1 is plugged with dirt, and the third penetration is completely open. All 3 of these penetrations should be plugged with grout to prevent surface water inflow to the wet well.

8-2 Rowley Pumping Station

- The valve pit was dry and is in good condition.
- The SCADA panel is in fair condition; with some weathering observed on the latches.
- There is interior surface rust on the door and hinges of the control panel; the electrical contacts are in good condition.
- The pump rails and float bracket inside the wet well are significantly deteriorated and should be replaced.
- The latch on the wet well is frozen and took significant effort to release. The hold open bracket on the hatch is operational. The DPW should consider replacing the hatch on the wet well.
- During the observation, a large quantity of tampons was floating in the wet well. The Township representative present for the inspection stated that this is common and that the forcemain had recently clogged at the point where it was discharging into the downstream manhole. Because of this, the DPW should consider installing chopper style pumps in this pumping station.

17-1 Forestlawn Pumping Station

- The valve pit is dry and in good condition.
- The SCADA panel is in fair condition; with some weathering observed on the latches.
- There is interior surface rust on the door and hinges of the control panel; the electrical contacts are in good condition.
- The pump rails and float bracket inside the wet well have been replaced.
- The wet well hatch is in fair shape, but the hold open bracket is not operational due to rust.
- The annual space between the vent shape and the concrete wet well cover should be sealed to prevent surface water infiltration.

19-1 Donna Estates Pumping Station

- The valve pit is dry and in good condition.
- The SCADA panel is in fair condition; with some weathering observed on the latches.
- The control panel and electrical contacts are in good condition.
- The pump rails and float bracket inside the wet well are in good condition.
- The wet well hatch is in good condition.

6-4 Dorothy Lane Pumping Station

- The valve pit was full of water; therefore, the valves and bypass connection could not be observed.
- The SCADA panel is in fair condition; with some weathering observed on the latches.
- There is interior surface rust on the door and hinges of the control panel; the electrical contacts are in good condition.
- The guide rails in the wet well are in good condition. The float bracket has been replaced.
- The wet well hatch is in good condition.

12-1 Wormer Pumping Station

- The valve pit was full of water; therefore, the valves could not be observed.
- The SCADA panel is in fair condition; with some weathering observed on the latches.
- The control panel is in good condition.
- The opening in the cabinet should be properly plugged and plastic conduit at the bottom of the control panel should be removed.
- The float bracket inside the wet well has been replaced.
- The pump guide rails should be replaced and a protective coating on the pump discharge pipes should be installed.
- The wet well hatch is in fair shape, but the hold bracket is missing.
- During the inspection, the Township representative onsite stated that the pumping station has very little inflow, but the inflow increases dramatically when it rains. The DPW should investigate the sanitary sewers upstream from this station for possible storm water inflow.

33-1 Millpoint Pumping Station

- The valve pit was dry. New check valves have been purchased and will be installed soon.
- The control panel and electrical contacts are in good condition.
- The float bracket inside the wet well has been replaced.
- The wet well hatch is in good condition.
- The brackets on the pump rails are badly rusted and should be replaced.

36-2 Calvert Pumping Station

- The valve pit was partially full of water, but the valves appeared to be in good condition.
- The SCADA panel is in fair condition; with some weathering observed on the latches.
- The control panel and electrical contacts are in good condition.
- The pump rails and float bracket are deteriorated and should be replaced.

36-3 Tilden Pumping Station

- The valve pit was full of water, but the valves appeared to be in good condition.
- The SCADA panel is in fair condition; with some weathering observed on the latches.
- The control panel and electrical contacts are in good condition.
- The pump rails and float bracket inside the wet well are in good condition.
- The wet well hatch is in good condition.

24-1 Builders Square Pumping Station

- The valve pit was dry and appears to be in good condition.
- The SCADA panel is in fair condition; with some weathering observed on the latches.
- There is interior surface rust on the door and hinges of the control panel; the electrical contacts are in good condition.
- The pump rails and float bracket inside the wet well have been replaced.
- The wet well hatch is in good condition.
- Two of the three support posts for the panels appear to have settled in relation to the post that is mounted on top of the wet well. The support for the control panel should be adjusted so the cabinet is level.

27-1 Lyford Pumping Station

- The valve pit was dry and appears to be in good condition.
- The SCADA panel and electrical contacts are in good condition.
- The wet well hatch is in fair condition.
- The pump rails and bracket inside the wet well are in very poor condition and need replacing.

27-2 Laketree Pumping Station

- The valve pit was dry and appears to be in good condition. The weights for the check valve arms are laying in the bottom of the valve pit.
- The SCADA panel is in fair condition; with some weathering observed on the latches.
- The pump rails and float bracket inside the wet well are in good condition.
- The wet well hatch is in good condition.
- The diesel generator appears to be in good condition.

SUMMARY OF RECOMMENDATIONS

Overall, the pumping stations that were assessed as part of this SAW Grant Implementation project were in fair to good condition. A handful of items should be addressed as soon as budgeting allows. The items, outlined in Table 2, should be addressed as budgeting allows.

Table 2 – Summary of Recommendations

Pumping Station Name	Summary of Recommendations
3-1 Sashabaw	The hold open bracket in the wet well is missing.
3-3 Lamson	The protective cover over the local disconnect switch at the wet well needs to be replaced; The accumulated grease buildup should be removed from the wet well and pump rails.
5-2 Longworth	The access cover to the valve pit should be exposed and maintained free from obstruction.
5-5 Longworth	Access should be maintained to the valve pit; The hold open bracket in the wet well is missing.
6-1 Iris	Access should be maintained to the valve pit.
7-1 Caterham	A gasket and additional anchor bolts should be installed to properly secure the hatch and to prevent surface water inflow to the wet well; All 3 of PVC pipe penetrations in the wet well should be plugged with grout to prevent surface water inflow.
8-2 Rowley	The pump rails and float bracket inside the wet well should be replaced; The hatch on the wet well should be replaced; Chopper style pumps should be installed due to frequent forcemain clogging.
17-1 Forestlawn	The annual space between the vent shape and the concrete wet well cover should be sealed to prevent surface water infiltration; The hold open bracket should be replaced.

Pumping Station Name	Summary of Recommendations
12-1 Wormer	The opening in the cabinet should be properly plugged and plastic conduit at the bottom of the control panel should be removed; The pump guide rails should be replaced and a protective coating on the pump discharge pipes should be installed; The DPW should investigate the sanitary sewers upstream from this station for possible storm water inflow.
33-1 Millpoint	The brackets on the pump rails are badly rusted and should be replaced.
36-2 Calvert	The pump rails and float bracket are deteriorated and should be replaced.
24-1 Builders Square	The support for the control panel should be adjusted so the cabinet is level.
27-1 Lyford	The pump rails and bracket inside the wet well are in very poor condition and need replacing

DLZ-J&A also recommends performing a comprehensive inspection at ALL pumping stations every ten (10) years.

SANITARY SEWER PUMPING STATION CAPITAL IMPROVEMENT PLAN

Capital improvement costs for pumping station replacements, on-site generators, and electrical panel replacements have been developed for 2020-2039 and included in the AMP. The Township maintains an annual Pump Replacement budget line item that ranges from \$300,000 annually to \$760,000 per year, as the station ages and operational issues increase. Electrical panel equipment is estimated to cost \$2.9M over the next 20 years and on-site generators are estimated to cost \$3.3M over the next 20 years.

WATERFORD TOWNSHIP

AGENDA REQUEST FORM

Date:

To: Kim Markee, Clerk
Kari Vlaeminck, Deputy Clerk

From:

Please place the following item on the _____ agenda:

Please place this item under:

- Awards and Presentations
- Reports
- Introduction

- Old Business
- New Business
- Closed Session

Please forward the following copies of agenda items:

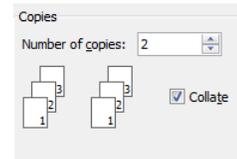
(1) Word File via email



(1) A PDF electronically
Please provide a single PDF for
each agenda item.



(2) Printed hard copies



Please note:

Agenda items must be scheduled by NOON on the TUESDAY prior to Board meeting.

Please schedule agenda items by sending this form to the Clerk and Deputy Clerk by the noon deadline. **DO NOT STAPLE THIS FORM TO THE BOARD MATERIAL.**

IF YOU REVISE ANY OF THE BOARD MATERIAL PLEASE PROVIDE A NEW WORD FILE AND PDF COPY OF THE ENTIRE PACKET. ALSO, YOU MUST ADD REVISED IN THE NAME OF THE TITLE SO IT MAY BE EASILY DIFERENTIAED

Two (2) copies of Board information for this agenda item are attached here.

Two (2) copies of Board information for this agenda item will be delivered to the Clerk's Dept. by **12:00 PM on the Wednesday** prior to meeting. I understand that information that is provided after the deadline might not be included in the packet.

BOARD OF TRUSTEES
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Kimberly Markee, Clerk
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Director
Joseph Ashley
Water & Sewer Superintendent
Justin Westlake
Facilities & Operations Superintendent
Derek Diederich
Administrative Superintendent
Frank Fisher
Engineering Superintendent

DATE: February 13, 2020
TO: Honorable Charter Township of Waterford Board of Trustees
FROM: Russell D. Williams, DPW Director 
RE: Rate Increase Proposal for Waterford Township's Sewer Capital Improvements

Please see the attached detailed Asset Management Financial Plan (AMFP) report from Andy Campbell, CPA, and Senior Manager at Bakertilly, Municipal Advisors, formally H.J. Umbaugh & Associates, contracted by Waterford Township DPW to conduct a thorough sewer rate study. Our project managers with Bakertilly has been working with Waterford Township DPW for several decades providing expertise on the water-sewer enterprise fund management through rates and bonding issues.

Rate reviews are required as part of the State of Michigan, Storm water Asset Management and Wastewater Grant Program (SAW Grant). This program was implemented for the evaluation of system condition and to assist municipalities in developing a Wastewater Asset Management Plan (WWAMP). In addition, the program requires a suitable funding structure to be implemented to sustain an acceptable level of service through maintenance, capital improvements and operational management of the wastewater collections system. With the combined team efforts of Township Elected Officials, DPW staff, DLZ Engineering and Bakertilly, the mission of developing a comprehensive WWAMP, for cost effective, long-term operation and maintenance of Waterford Township's wastewater collection system is complete.

This AMFP plan, if approved, will lead Waterford down a path to continue providing excellent service for many years. All capital improvements included in the WWAMP are generally designed to be conducted on a pay as you go basis, with the goal to avoid interest and fees whenever possible and practical.. With consideration of the current debt schedule, no additional Waterford System bonds are projected in this 20-year estimate at this time.

The AMFP is based on a twenty-year projection, the first nine years of 2.5% rate increases, the final eleven years project a 3.5% rate increase. Rates are to be responsibly re-evaluated every five years to confirm objectives of the WWAMP are on target.

All proposed increases are for financial capital to improve and maintain the **Waterford System ONLY**. This is isolated from the pass-through increases from the 'downstream' entities of Oakland County that go to maintenance and operation of the Clinton Oakland Sewer Disposal

With us there are no boundaries

System, Oakland Macomb Interceptor Drain Drainage District and finally the Great Lakes Water Authority.

Waterford has not reviewed internal sewer rates since September 28, 2015. The 6.5% increase at that time was primarily for financing the SRF Capital Improvement Bond 2013-B for Pump Station improvements.

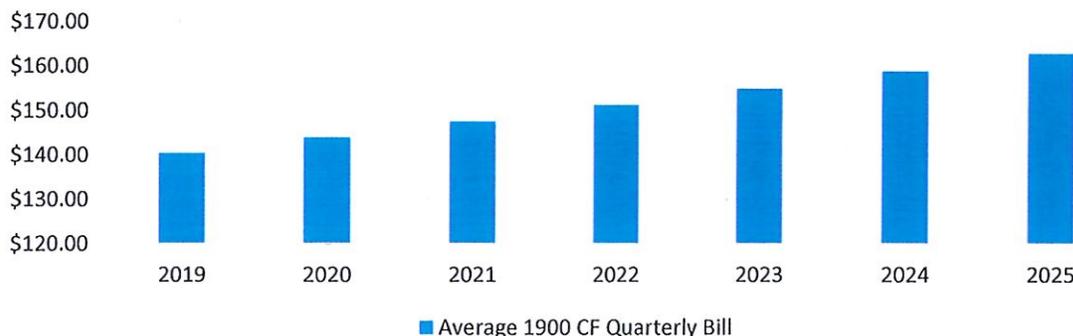
As with the water system rates, the nominal request before the Waterford Township Board of Trustees is a multi-year rate increase. With the exception of the 2020 increase which I would ask the board to implement on April 1st 2020.

Requested Board Action	
Approve Bakertilly Rate Recommendations	Sewer Rate Increase effective January 1st of each year
<i>2020* (4-1-2020) Effective Date</i>	2.5%
2021	2.5%
2022	2.5%
2023	2.5%
2024	2.5%
2025	2.5%

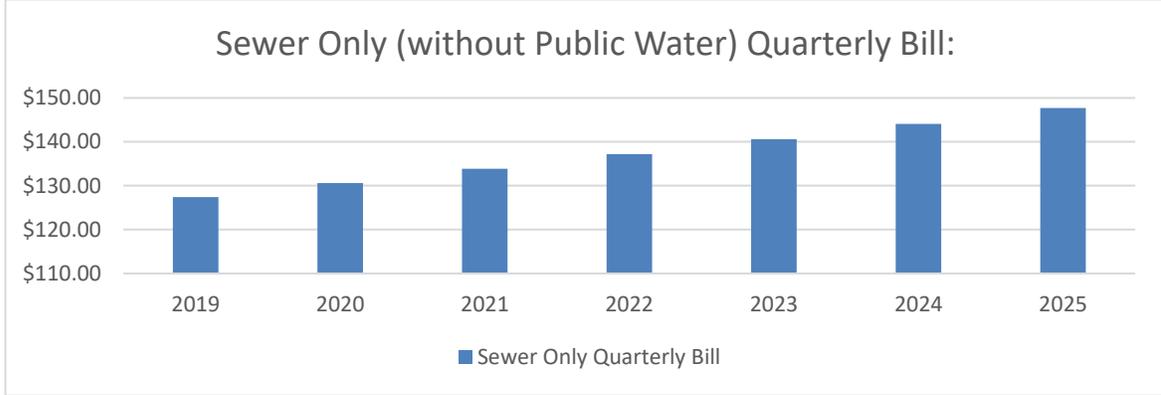
A modest increase to the average Waterford Township Sewer Customer using 1,900 Cubic Feet (CF) of quarterly is displayed below:

Year	Average 1,900 CF Quarterly Bill	Average Quarterly Increase	Average Monthly Increase
2019	\$140.25		
2020	\$143.76	\$3.51	\$1.17
2021	\$147.35	\$3.59	\$1.20
2022	\$151.03	\$3.68	\$1.23
2023	\$154.81	\$3.78	\$1.26
2024	\$158.68	\$3.87	\$1.29
2025	\$162.65	\$3.97	\$1.32

Average 1900 CF Quarterly Sewer Bill



Year	Sewer Only Quarterly Bill	Quarterly Increase	Monthly Increase
2019	\$127.38		
2020	\$130.56	\$3.18	\$1.06
2021	\$133.83	\$3.26	\$1.09
2022	\$137.17	\$3.35	\$1.12
2023	\$140.60	\$3.43	\$1.14
2024	\$144.12	\$3.52	\$1.17
2025	\$147.72	\$3.60	\$1.20





now joined with Umbaugh

Baker Tilly Municipal Advisors, LLC
2852 Eyde Pkwy, Suite 150
East Lansing, MI 48823
(517) 321-0110
bakertilly.com

Charter Township of Waterford
SAW Grant
Asset Management Financial Plan
December 20, 2019

A primary goal of Asset Management is to develop a long-term plan for revenue support of capital improvements, as well as operating cost. The following Asset Management Financial Plan (AMFP) is intended to summarize the policy formulation in the areas of rate management, capital spending, and fund balance.

Methodology

A significant effort has been made by the Township and their consulting engineers to inventory assets, evaluate the infrastructure, and determine asset criticality. The result is the identification of asset investment cost by project and by year. The AMFP covers an extended forecast period to take this asset evaluation into account. The AMFP is a four step process: 1) historical comparison with audits and budgets, 2) test year, or normalized budget year, along with inflation assumptions for purposes of forecasting, 3) proof of rate to revenue for reliance on customer data, and 4) cash flow forecast including revenue, operating expense, capital spending, debt, and fund balance (i.e., actual cash and investment balance). The analysis is a “cash basis” approach as described in the AWWA Manual of Rate Making Practices. From year to year, this AMFP may be used to implement policy regarding rate management and budgeting.

Audit Comparison

One key indicator of financial health is the cash and investments found in the Comparative Statement of Net Position of the Sewer Fund. The Township has maintained this cash and investment balance at around one year compared to the cash operating expenses. Management of the cash balance will be discussed further under Forecast – Cash Balance. The Sewer Fund audited Revenues, Expenses and Changes in Net Position comparison reveals consistency in annual revenues and in annual operating expenses (excluding one-time expenditures).

Budget Comparison / Test Year

The current year budget is consistent with previous years. Certain adjustments have been made to reflect a normalized year for maintenance expenses. This has been utilized to develop the Test Year budget including expected percent inflation factors.

Proof of Rate to Revenue

The Township bills customers based on generally accepted methods. The customers are billed a minimum charge every month and they are billed on a commodity basis for the number of gallons used. The number of customers billed at the current rates tie to the revenue reflected in the audit and budget, such that we can rely on the numbers in forecasting.

Forecast - Capital Cost

Annual cost has been forecasted based on an engineering evaluation of asset inventory, condition assessment, and criticality. These are expenses not already included in the operating and maintenance budget. The forecast reflects cash-funding all projects identified by the engineers.

Forecast - Cash Balance

Our standard minimum target of cash and investment to operating expenses (net of depreciation) is six months. This minimum target is higher for a system of this size. Due to the size of the system and extent of capital improvements forecasted, the cash balance target is around one year. With the exclusive use of cash-funding capital improvements and inflationary rate increases, the system will be able to maintain an adequate amount of cash to respond to unforeseen events.

Forecast - Rate Management

The revenue needs to support operations, debt, and capital improvements while solving to cash balance. The cash flow forecast demonstrates a rate track with annual increases of 2.50% per year. Annual increases are highly recommended to keep up with expected rising expenses over time.

Management Summary

- Rates: annual increases of 2.50% yearly.
- Cash Balance: target of one year compared to cash operating expenses over forecast period to prepare for future capital improvements.
- Capital Improvements: use of cash-funding all identified capital improvements for the forecast period.

AMFP – Management Tool

The AMFP is a living document. It is most effective as a tool used annually for budget and user rate decisions.



December 20, 2019

Charter Township of Waterford
5240 Civic Center Drive
Waterford Twp, MI 48329

Baker Tilly Municipal Advisors, LLC
2852 Eyde Pkwy, Suite 150
East Lansing, MI 48823
(517) 321-0110
bakertilly.com

Re: Charter Township of Waterford (Michigan) Sewer Fund – SAW Grant – Asset Management Financial Plan

Dear Charter Township of Waterford:

The attached schedules (listed below) present unaudited and limited information for the purpose of discussion and consideration in the preliminary planning stage of a SAW financial plan by the appropriate officers, officials and advisors of the Charter Township of Waterford. The use of these schedules should be restricted to this purpose, for internal use only, as the information is subject to future revision and final report.

Page

2	Comparative Statement of Net Position
3	Comparative Statement of Revenues, Expenses, and Changes in Net Position
4-6	Comparative Detail of Operating Expenses
7	Schedule of Amortization of \$1,697,393 Principal Amount Outstanding of 2007B SRF Bonds
8	Schedule of Amortization of \$2,475,411 Principal Amount Outstanding of OMID SRF Bonds, Series 2010
9	Schedule of Amortization of \$640,061 Principal Amount Outstanding of OMID SRF Bonds, Series 2010B
10	Schedule of Amortization of \$3,350,768 Principal Amount Outstanding of OMID SRF Bonds, Series 2011
11	Schedule of Amortization of \$759,892 Principal Amount Outstanding of General Obligation Limited Tax Refunding Bonds, Series 2012
12	Schedule of Amortization of \$525,644 Principal Amount Outstanding of OMID SRF Bonds, Series 2013A
13	Schedule of Amortization of \$143,000 Principal Amount Outstanding of OMID SRF Bonds, Series 2013B
14	Schedule of Amortization of \$3,006,309 Principal Amount Outstanding of Oakland County Clinton River WRRF Bonds, Series 2017
15	Schedule of Combined Debt Service
16-17	Cash Flow Analysis

We would appreciate your questions or comments on this information and would provide additional information upon request.

Sincerely,

BAKER TILLY MUNICIPAL ADVISORS, LLC

Andy Campbell, Senior Manager

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

COMPARATIVE STATEMENT OF NET POSITION

	As of				
	<u>12/31/2014</u>	<u>12/31/2015</u>	<u>12/31/2016</u>	<u>12/31/2017</u>	<u>12/31/2018</u>
	(----- Per Audit -----)				
Assets					
Current assets:					
Cash and investments	\$13,641,854	\$13,404,260	\$16,106,900	\$16,364,164	\$17,828,069
Receivables:					
Special assessments receivable	496,752	430,833	353,916	305,557	269,220
Receivables from sales to customers on account	7,403,488	7,668,926	8,005,390	7,790,033	8,193,981
Accrued interest receivable	41,406	31,427	37,538	55,590	144,616
Due from other governmental units	-	-	5,402	11,804	-
Prepaid expenses and other assets	-	32,925	5,555	148,651	34,132
Total current assets	<u>21,583,500</u>	<u>21,568,371</u>	<u>24,514,701</u>	<u>24,675,799</u>	<u>26,470,018</u>
Noncurrent assets:					
Restricted assets	813,588	2,998,522	1,098,158	2,342,415	1,572,136
Net pension asset	-	-	-	748,095	-
Capital assets:					
Assets not subject to depreciation	30,297,310	25,067,459	24,811,045	7,937,941	10,623,742
Assets subject to depreciation	78,800,795	86,398,411	86,268,143	102,141,039	100,025,145
Total noncurrent assets	<u>109,911,693</u>	<u>114,464,392</u>	<u>112,177,346</u>	<u>113,169,490</u>	<u>112,221,023</u>
Total Assets	<u>\$131,495,193</u>	<u>\$136,032,763</u>	<u>\$136,692,047</u>	<u>\$137,845,289</u>	<u>\$138,691,041</u>
Deferred Outflows of Resources					
Deferred Pension costs	-	937,593	1,112,887	-	1,668,097
Deferred OPEB costs	-	-	-	-	196,739
Total deferred outflows of resources	<u>-</u>	<u>937,593</u>	<u>1,112,887</u>	<u>-</u>	<u>1,864,836</u>
Liabilities					
Current liabilities:					
Accounts payable	\$1,220,145	\$1,032,839	\$1,116,639	\$1,157,354	\$1,347,669
Due to other funds	-	-	290	-	-
Accrued liabilities and other	1,191,468	627,844	305,711	281,905	237,588
Compensated absences	-	189,972	193,627	195,372	224,331
Provision for claims	-	-	-	127,682	45,822
Current liabilities payable	-	162,194	150,151	-	-
Current portion of long-term debt	2,258,631	2,125,230	2,181,604	2,222,502	2,372,280
Total current liabilities	<u>4,670,244</u>	<u>4,138,079</u>	<u>3,948,022</u>	<u>3,984,815</u>	<u>4,227,690</u>
Noncurrent liabilities:					
Compensated absences	-	62,483	63,684	64,258	73,783
Provision for claims	-	72,119	61,217	20,808	4,723
Net OPEB obligation	4,124,991	5,059,486	5,851,721	6,894,125	20,270,331
Net pension liability	-	1,280,639	1,655,199	-	2,431,869
Long-term debt	30,744,226	33,975,603	32,748,201	30,556,219	29,826,790
Total noncurrent liabilities	<u>34,869,217</u>	<u>40,450,330</u>	<u>40,380,022</u>	<u>37,535,410</u>	<u>52,607,496</u>
Total Liabilities	<u>39,539,461</u>	<u>44,588,409</u>	<u>44,328,044</u>	<u>41,520,225</u>	<u>56,835,186</u>
Deferred Inflows of Resources - Related to Pensions	<u>-</u>	<u>263,757</u>	<u>280,855</u>	<u>1,196,410</u>	<u>154,718</u>
Net Position					
Net investment in capital assets	76,598,026	75,365,037	76,149,383	77,300,259	78,449,817
Restricted - Capital projects	813,588	2,998,522	1,098,158	2,342,415	1,572,136
Unrestricted	14,544,118	13,754,631	15,948,494	15,485,980	3,544,020
Total Net Position	<u>91,955,732</u>	<u>92,118,190</u>	<u>93,196,035</u>	<u>95,128,654</u>	<u>83,565,973</u>
Total Liabilities and Net Position	<u>\$131,495,193</u>	<u>\$136,706,599</u>	<u>\$137,524,079</u>	<u>\$136,648,879</u>	<u>\$140,401,159</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

COMPARATIVE STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

	Fiscal Year Ended				
	<u>12/31/2014</u>	<u>12/31/2015</u>	<u>12/31/2016</u>	<u>12/31/2017</u>	<u>12/31/2018</u>
	(----- Per Audit -----)				
Operating Revenues					
Sale of water	\$4,916,805	\$5,767,266	\$6,012,824	\$5,793,618	\$5,818,649
Sewage disposal charges	15,211,866	15,606,349	16,506,995	16,673,937	17,205,120
Other sales to customers	24,770	32,237	24,730	39,044	42,682
Other charges for services	288,726	262,479	466,141	500,839	434,160
Operating grants	10,536	-	-	-	348,335
Total operating revenue	<u>20,452,703</u>	<u>21,668,331</u>	<u>23,010,690</u>	<u>23,007,438</u>	<u>23,848,946</u>
Operating Expenses					
Cost of water	1,658,724	1,600,899	1,690,175	1,721,613	1,710,431
Cost of sewage treatment	9,005,056	9,259,783	9,166,971	9,677,724	9,980,975
Other operation and maintenance	730,739	727,738	799,509	896,008	1,041,300
Billing and administrative costs	5,525,326	5,677,345	5,847,148	5,057,079	4,795,245
Subtotal	16,919,845	17,265,765	17,503,803	17,352,424	17,527,951
Depreciation expense	3,586,054	4,022,724	4,138,057	5,062,949	5,286,323
Total operating expense	<u>20,505,899</u>	<u>21,288,489</u>	<u>21,641,860</u>	<u>22,415,373</u>	<u>22,814,274</u>
Net operating income (loss)	<u>(53,196)</u>	<u>379,842</u>	<u>1,368,830</u>	<u>592,065</u>	<u>1,034,672</u>
Non-Operating Revenue (Expenses)					
Investment income	135,605	114,119	107,899	146,368	314,230
Interest expense	(379,690)	(576,350)	(522,830)	(508,114)	(725,060)
Gain (loss) on sale of assets	11,960	-	(95,143)	101,451	12,012
Operating grants	-	-	-	469,295	-
Total non-operating revenues (expenses)	<u>(232,125)</u>	<u>(462,231)</u>	<u>(510,074)</u>	<u>209,000</u>	<u>(398,818)</u>
(Loss) Income - Before Contributions	<u>(285,321)</u>	<u>(82,389)</u>	<u>858,756</u>	<u>801,065</u>	<u>635,854</u>
Capital Contributions					
Principal forgiveness on capital debt, tap-in fees, system burden fees, and other	419,660	750,175	219,089	-	-
Capital grants	-	-	-	600,035	113,641
Benefit fees	-	-	-	303,695	345,521
Lines donated by developers	-	-	-	227,824	443,266
Change in Net Position	<u>134,339</u>	<u>667,786</u>	<u>1,077,845</u>	<u>1,932,619</u>	<u>1,538,282</u>
Net Position - Beginning of Year	<u>91,821,393</u>	<u>91,450,404</u>	<u>92,118,190</u>	<u>93,196,035</u>	<u>82,027,691</u>
Net Position - End of Year	<u>\$91,955,732</u>	<u>\$92,118,190</u>	<u>\$93,196,035</u>	<u>\$95,128,654</u>	<u>\$83,565,973</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

COMPARATIVE DETAIL OF OPERATING EXPENSES - SEWER

	Fiscal Year Ended				Test Year	Multiplier
	12/31/2017	12/31/2018	12/31/2019	12/31/2020		
	(-----Per Client-----)					
Operating Expenses						
[1] Sewer General Administration						
59044 70200 Salaries	\$362,839	\$382,741	\$372,011	\$389,873	\$389,873	2.00%
59044 70300 Wages - Part-Time/Temporary	21,598	16,330	30,000	20,000	20,000	2.00%
59044 70900 Overtime	2,558	1,875	5,000	5,000	5,000	2.00%
59044 71000 FICA	29,851	28,404	28,459	31,738	31,738	2.00%
59044 71100 Health Insurance	232,036	193,495	250,231	281,626	281,626	3.00%
59044 71150 Retiree Health	213,701	209,216	276,968	264,958	264,958	10.00%
59044 71200 Life Insurance	4,394	4,636	5,625	5,605	5,605	2.00%
59044 71250 Retiree Life Insurance	66	75	100	100	100	1.00%
59044 71300 DB - Retirement	171,890	117,296	131,571	173,445	173,445	2.00%
59044 71350 Retiree Health Trust Contributions	73,788	101,938	163,200	161,250	161,250	10.00%
59044 71400 Dental Insurance	25,028	25,841	27,097	24,445	24,445	4.00%
59044 71450 Retiree Dental Insurance	10,488	8,260	11,500	11,500	11,500	2.00%
59044 71500 Optical Insurance	2,935	3,138	-	-	-	0.00%
59044 71550 Retiree Optical Insurance	50	200	500	500	500	1.00%
59044 71600 Worker's Comp	(19,990)	6,333	13,000	22,500	22,500	2.00%
59044 71750 Long Term Disability	3,295	3,363	3,578	3,581	3,581	3.00%
59044 71780 Defined Contributions - Employer	12,908	12,467	11,811	15,884	15,884	2.00%
59044 71792 Retiree HSA - Employer Contributions	1,863	2,036	2,014	4,063	4,063	2.00%
59044 71850 OPEB - Retiree Health Care	520,702	-	-	-	-	0.00%
59044 71855 Pension Expense - GASB 68	(187,426)	-	-	-	-	0.00%
59044 72000 Tuition Reimbursement	3,562	5,672	4,000	4,000	4,000	5.00%
59044 72700 Supplies - Office	4,772	4,212	6,000	6,500	6,500	3.00%
59044 72800 Supplies - Postage	21,587	23,168	24,000	26,000	26,000	3.00%
59044 76200 Supplies - Computer	3,169	3,327	3,250	3,000	3,000	2.00%
59044 76400 Supplies - Tools	181	51	250	250	250	2.00%
59044 77400 Supplies - Gas & Oil	24,239	32,229	30,000	30,000	30,000	3.00%
59044 77700 Supplies - Uniforms	13,460	15,905	12,500	14,000	14,000	3.00%
59044 78100 Supplies - R&M-Building	4,100	2,427	5,000	5,000	5,000	5.00%
59044 78200 Supplies - R&M-Equipment	13,439	10,092	13,750	13,750	13,750	4.00%
59044 78600 Supplies - R&M-Vehicle	19,476	15,025	15,000	15,000	15,000	4.00%
59044 81300 Physical Exams	1,442	1,404	1,000	1,000	1,000	2.00%
59044 84100 Services - Legal	514	2,634	4,250	6,250	6,250	2.00%
59044 84200 Services - Auditing	14,950	14,950	11,375	13,875	13,875	2.00%
59044 84500 Services - Other Professional	55,098	82,712	107,750	107,500	107,500	2.00%
59044 84800 Services - Administration	398,020	364,459	322,302	271,168	271,168	2.00%
59044 85600 Contingency	-	-	25,000	55,000	55,000	2.00%
59045 86600 Legal settlements	-	18,500	-	3,750	3,750	0.00%
59044 86800 Computer - Licensing & Consultation	26,738	24,369	66,500	80,100	80,100	2.00%
59044 88500 Insurance	146,298	116,921	109,669	95,728	95,728	2.00%
59044 89000 Public Utilities	47,073	51,506	50,000	52,500	52,500	3.00%
59044 89400 Public Utilities - Telephone	24,464	20,783	25,000	25,000	25,000	3.00%
59045 91000 Mitigation - Water & Other	-	-	-	500	500	1.00%
59044 92110 Contr R&M - Telephone	-	-	1,250	1,250	1,250	2.00%
59044 92120 Contr R&M - Radio	-	-	250	250	250	2.00%
59044 92130 Contr R&M - Vehicle	18,824	26,553	30,000	20,000	20,000	2.00%
59044 92140 Contr R&M - Computer	93,782	73,711	87,500	79,000	79,000	2.00%
59044 92170 Contr R&M - Office Equipment	2,351	2,530	1,750	2,250	2,250	2.00%
59044 92190 Contr R&M - Building	69,675	64,697	61,750	49,250	49,250	2.00%

[1] Assumed 50% share for Sewer Fund.

[2] Depreciation Expense is removed from this report as it is performed on the cash basis.

[3] Principal and interest on debt are removed from this section of the report. These items are discussed later in the report.

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

COMPARATIVE DETAIL OF OPERATING EXPENSES - SEWER

	Fiscal Year Ended				Test Year	Multiplier
	12/31/2017	12/31/2018	12/31/2019	12/31/2020		
	(-----Per Client-----)					
Operating Expenses (Continued)						
Sewer General Administration (Continued)						
59044 95400	Miscellaneous Expense	1,155	390	625	625	2.00%
59044 95450	Refunds & Rebates	-	-	250	250	2.00%
59044 95460	Bank Service Charges	14,476	7,323	15,500	14,500	5.00%
59044 96000	Travel & Meals	8,030	4,417	7,500	7,500	2.00%
59044 96100	Conferences & Training	13,479	15,285	15,000	15,000	2.00%
59044 96500	Tax Roll Adjustments	-	-	-	-	0.00%
59044 96550	Bad Debt - Uncollectible	2,123	226	2,500	2,500	2.00%
59044 96800	Depreciation Expense	-	-	-	- [2]	0.00%
59044 97106	Capital - Building Improvements	2,604	11,730	100,000	50,000	3.00%
59044 97107	Capital - Facilities & Other Improvements	-	-	47,500	7,500	2.00%
59044 97125	Capital - Furnishings & equipment	-	24,944	-	250	2.00%
59045 97125	Capital - Personal Property	-	-	250	-	0.00%
59044 97133	Capital - Computer Equipment	-	1,880	-	25,250	2.00%
59044 97136	Capital - Vehicles	110	-	41,000	31,500	4.00%
59044 97340	Capital - Capital Lease	-	570	2,500	2,500	2.00%
	Total Sewer General Administration	2,531,753	2,162,235	2,584,385	2,555,312	2,583,064
Sewer O & M						
59054 70200	Salaries	280,732	300,807	298,681	292,345	3.00%
59054 70900	Overtime	17,715	16,483	25,000	25,000	3.00%
59054 71000	FICA	23,135	24,115	22,849	24,277	3.00%
59054 71780	Defined Contrib 1 - Employer	10,716	16,937	17,760	22,406	3.00%
59054 71792	Retiree HAS - Employer Cont.	3,004	3,412	3,703	6,721	3.00%
59054 76100	Supplies - Oper. Laterals	18,909	15,206	25,000	25,000	4.00%
59054 76300	Supplies - Oper. Pump Station	1,938	12,744	17,000	17,000	3.00%
59054 81000	Service - Sewer Treatment	9,286,248	9,609,315	9,900,000	10,110,000	4.00%
59054 89000	Public Utilities	95,910	96,661	92,000	100,000	3.00%
59054 91000	Sewer Mitigation	521	1,148	10,000	10,000	3.00%
59054 92200	Contr R&M - Operating Equip	55,207	79,681	218,500	180,000	3.00%
59054 95400	Miscellaneous Expense	712	155	500	500	3.00%
	Total Sewer O & M	9,794,747	10,176,664	10,630,993	10,813,249	
Sewer Capital Improvement						
59055 97000	Capital - Infrastructure	31,499	2,696	150,000	150,000	0.00%
59055 97010	Capital - Infra/Preservation	94,954	56,563	400,000	510,000	0.00%
59055 97125	Capital - Personal Property	-	-	80,000	80,000	0.00%
59055 97131	Capital - Oper Equip	-	-	115,000	60,000	0.00%
59055 97136	Capital - Vehicles	-	-	40,000	-	0.00%
	Total Sewer Capital Improvement	126,453	59,259	785,000	800,000	

[1] Assumed 50% share for Sewer Fund.

[2] Depreciation Expense is removed from this report as it is performed on the cash basis.

[3] Principal and interest on debt are removed from this section of the report. These items are discussed later in the report.

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

COMPARATIVE DETAIL OF OPERATING EXPENSES - SEWER

	Fiscal Year Ended				Test Year	Multiplier
	12/31/2017	12/31/2018	12/31/2019	12/31/2020		
	(-----Per Client-----)					
Operating Expenses						
Sewer Debt						
59056 99204	Intr Exp-Srf 2013	-	-	-	- [3]	- 0.00%
59056 99205	Intr Exp-Omi 2013	-	-	-	- [3]	- 0.00%
59056 99206	Intr Exp-Sewer	-	-	-	- [3]	- 0.00%
59056 99207	Intr Exp-Sewer	-	-	-	- [3]	- 0.00%
59056 99208	Intr Exp-2011A Omi Bond	-	-	-	- [3]	- 0.00%
59056 99209	Intr Exp-2017 Clint Riv Swr	-	-	-	- [3]	- 0.00%
59056 99211	Intr Exp-Srf 2007	-	-	-	- [3]	- 0.00%
59056 99300	Agent Fees	-	-	-	- [3]	- 0.00%
	Total Sewer Debt	-	-	-	-	
Debt Service - General						
59061 99212	Intr Exp-W&S 5/12	-	-	-	- [3]	- 0.00%
59061 99214	Interest Exp - Erc	-	-	-	- [3]	- 0.00%
59061 99300	Agent Fees	-	-	-	- [3]	- 0.00%
	Total Debt Service - General	-	-	-	-	
Hardship						
59057 95050	Hardship Connection Payments	-	-	12,000	12,000	12,000 2.00%
	Total Hardship Connection Payments	-	-	12,000	12,000	12,000
[1] Engineering Services						
59058 70200	Salaries	172,524	162,317	196,865	211,037	211,037 2.00%
59058 70900	Wages - Pt. Time/Temp	-	1,097	-	-	- 0.00%
59058 70900	Overtime	1,599	2,486	2,500	2,500	2,500 2.00%
59058 71000	FICA	12,787	12,601	15,060	16,336	16,336 2.00%
59058 71780	Defined Contribution - Employer	5,159	3,997	6,571	8,703	8,703 2.00%
59058 71792	Retiree HSA - Employer Contributions	1,480	1,079	1,335	2,611	2,611 2.00%
59058 77115	Supplies - Utility Coordination	382	45	1,500	1,500	1,500 2.00%
59058 77120	Supplies - Inflow/Infiltration	1,405	2,116	1,500	1,875	1,875 2.00%
59058 95400	Miscellaneous Expense	365	93	500	500	500 2.00%
	Total Engineering Services	195,699	185,830	225,830	245,061	245,061
	Total Operating Expenses	\$12,648,652	\$12,583,988	\$14,238,208	\$14,425,621	\$13,604,124

[1] Assumed 50% share for Sewer Fund.

[2] Depreciation Expense is removed from this report as it is performed on the cash basis.

[3] Principal and interest on debt are removed from this section of the report. These items are discussed later in the report.

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$1,697,393 PRINCIPAL AMOUNT OUTSTANDING
OF SRF BONDS, SERIES 2007-B**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
-----In Dollars-----						
4/1/2019	\$1,697,393			\$13,791.34	\$13,791.34	
10/1/2019	1,697,393	1.625	\$180,000	13,791.34	193,791.34	\$207,582.68
4/1/2020	1,517,393			12,328.84	12,328.84	
10/1/2020	1,517,393	1.625	185,000	12,328.84	197,328.84	209,657.68
4/1/2021	1,332,393			10,825.71	10,825.71	
10/1/2021	1,332,393	1.625	185,000	10,825.71	195,825.71	206,651.42
4/1/2022	1,147,393			9,322.58	9,322.58	
10/1/2022	1,147,393	1.625	185,000	9,322.58	194,322.58	203,645.16
4/1/2023	962,393			7,819.45	7,819.45	
10/1/2023	962,393	1.625	190,000	7,819.45	197,819.45	205,638.90
4/1/2024	772,393			6,275.70	6,275.70	
10/1/2024	772,393	1.625	190,000	6,275.70	196,275.70	202,551.40
4/1/2025	582,393			4,731.95	4,731.95	
10/1/2025	582,393	1.625	195,000	4,731.95	199,731.95	204,463.90
4/1/2026	387,393			3,147.57	3,147.57	
10/1/2026	387,393	1.625	200,000	3,147.57	203,147.57	206,295.14
4/1/2027	187,393			1,522.57	1,522.57	
10/1/2027	187,393	1.625	187,393	1,522.57	188,915.57	190,438.14
Totals			<u>\$1,697,393</u>	<u>\$139,531.42</u>	<u>\$1,836,924.42</u>	<u>\$1,836,924.42</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$2,475,441 PRINCIPAL AMOUNT OUTSTANDING
OF OMID SRF BONDS, SERIES 2010**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
			-----In Dollars-----			
4/1/2019	\$2,475,441	2.50	\$162,876	\$30,943.02	\$193,819.02	
10/1/2019	2,312,565			28,907.07	28,907.07	\$222,726.09
4/1/2020	2,312,565	2.50	167,587	28,907.07	196,494.07	
10/1/2020	2,144,978			26,812.23	26,812.23	223,306.30
4/1/2021	2,144,978	2.50	171,625	26,812.23	198,437.23	
10/1/2021	1,973,353			24,666.92	24,666.92	223,104.15
4/1/2022	1,973,353	2.50	175,663	24,666.92	200,329.92	
10/1/2022	1,797,690			22,471.13	22,471.13	222,801.05
4/1/2023	1,797,690	2.50	180,375	22,471.13	202,846.13	
10/1/2023	1,617,315			20,216.44	20,216.44	223,062.57
4/1/2024	1,617,315	2.50	185,086	20,216.44	205,302.44	
10/1/2024	1,432,229			17,902.86	17,902.86	223,205.30
4/1/2025	1,432,229	2.50	189,797	17,902.86	207,699.86	
10/1/2025	1,242,432			15,530.40	15,530.40	223,230.26
4/1/2026	1,242,432	2.50	194,509	15,530.40	210,039.40	
10/1/2026	1,047,923			13,099.04	13,099.04	223,138.44
4/1/2027	1,047,923	2.50	199,220	13,099.04	212,319.04	
10/1/2027	848,703			10,608.79	10,608.79	222,927.83
4/1/2028	848,703	2.50	204,604	10,608.79	215,212.79	
10/1/2028	644,099			8,051.24	8,051.24	223,264.03
4/1/2029	644,099	2.50	209,315	8,051.24	217,366.24	
10/1/2029	434,784			5,434.80	5,434.80	222,801.04
4/1/2030	434,784	2.50	214,700	5,434.80	220,134.80	
10/1/2030	220,084			2,751.05	2,751.05	222,885.85
4/1/2031	220,084	2.50	220,084	2,751.05	222,835.05	222,835.05
Totals			<u>\$2,475,441</u>	<u>\$423,846.96</u>	<u>\$2,899,287.96</u>	<u>\$2,899,287.96</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$640,061 PRINCIPAL AMOUNT OUTSTANDING
OF OMID RZEDB BONDS, SERIES 2010B**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
-----In Dollars-----						
4/1/2019	\$640,061	4.70	\$39,709	\$17,776.66	\$57,485.66	
10/1/2019	600,352			16,843.50	16,843.50	\$74,329.16
4/1/2020	600,352	4.90	41,728	16,843.50	58,571.50	
10/1/2020	558,624			15,821.16	15,821.16	74,392.66
4/1/2021	558,624	5.10	43,748	15,821.16	59,569.16	
10/1/2021	514,876			14,705.59	14,705.59	74,274.75
4/1/2022	514,876	5.25	45,767	14,705.59	60,472.59	
10/1/2022	469,109			13,504.21	13,504.21	73,976.80
4/1/2023	469,109	5.45	48,459	13,504.21	61,963.21	
10/1/2023	420,650			12,183.70	12,183.70	74,146.91
4/1/2024	420,650	5.45	51,151	12,183.70	63,334.70	
10/1/2024	369,499			10,789.84	10,789.84	74,124.54
4/1/2025	369,499	5.70	53,843	10,789.84	64,632.84	
10/1/2025	315,656			9,255.31	9,255.31	73,888.15
4/1/2026	315,656	5.70	56,535	9,255.31	65,790.31	
10/1/2026	259,121			7,644.06	7,644.06	73,434.37
4/1/2027	259,121	5.90	59,901	7,644.06	67,545.06	
10/1/2027	199,220			5,876.98	5,876.98	73,422.04
4/1/2028	199,220	5.90	62,593	5,876.98	68,469.98	
10/1/2028	136,627			4,030.49	4,030.49	72,500.47
4/1/2029	136,627	5.90	66,631	4,030.49	70,661.49	
10/1/2029	69,996			2,064.88	2,064.88	72,726.37
4/1/2030	69,996	5.90	69,996	2,064.88	72,060.88	72,060.88
Totals			<u>\$640,061</u>	<u>\$243,216.10</u>	<u>\$883,277.10</u>	<u>\$883,277.10</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$3,350,768 PRINCIPAL AMOUNT OUTSTANDING
OF OMID SRF BONDS, SERIES 2011**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
-----In Dollars-----						
4/1/2019	\$3,350,768			\$41,884.62	\$41,884.62	
10/1/2019	3,350,768	2.50	\$186,751	41,884.62	228,635.62	\$270,520.24
4/1/2020	3,164,017			39,550.23	39,550.23	
10/1/2020	3,164,017	2.50	191,709	39,550.23	231,259.23	270,809.46
4/1/2021	2,972,308			37,153.87	37,153.87	
10/1/2021	2,972,308	2.50	196,667	37,153.87	233,820.87	270,974.74
4/1/2022	2,775,641			34,695.53	34,695.53	
10/1/2022	2,775,641	2.50	200,798	34,695.53	235,493.53	270,189.06
4/1/2023	2,574,843			32,185.55	32,185.55	
10/1/2023	2,574,843	2.50	206,583	32,185.55	238,768.55	270,954.10
4/1/2024	2,368,260			29,603.26	29,603.26	
10/1/2024	2,368,260	2.50	211,540	29,603.26	241,143.26	270,746.52
4/1/2025	2,156,720			26,959.01	26,959.01	
10/1/2025	2,156,720	2.50	216,498	26,959.01	243,457.01	270,416.02
4/1/2026	1,940,222			24,252.78	24,252.78	
10/1/2026	1,940,222	2.50	222,283	24,252.78	246,535.78	270,788.56
4/1/2027	1,717,939			21,474.24	21,474.24	
10/1/2027	1,717,939	2.50	228,067	21,474.24	249,541.24	271,015.48
4/1/2028	1,489,872			18,623.40	18,623.40	
10/1/2028	1,489,872	2.50	233,025	18,623.40	251,648.40	270,271.80
4/1/2029	1,256,847			15,710.59	15,710.59	
10/1/2029	1,256,847	2.50	238,809	15,710.59	254,519.59	270,230.18
4/1/2030	1,018,038			12,725.48	12,725.48	
10/1/2030	1,018,038	2.50	245,420	12,725.48	258,145.48	270,870.96
4/1/2031	772,618			9,657.73	9,657.73	
10/1/2031	772,618	2.50	251,204	9,657.73	260,861.73	270,519.46
4/1/2032	521,414			6,517.68	6,517.68	
10/1/2032	521,414	2.50	257,815	6,517.68	264,332.68	270,850.36
4/1/2033	263,599			3,294.99	3,294.99	
10/1/2033	263,599	2.50	263,599	3,294.99	266,893.99	270,188.98
Totals			<u>\$3,350,768</u>	<u>\$708,577.92</u>	<u>\$4,059,345.92</u>	<u>\$4,059,345.92</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$759,892 PRINCIPAL AMOUNT OUTSTANDING
OF GENERAL OBLIGATION LIMITED TAX REFUNDING BONDS, SERIES 2012**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
			(------In Dollars-----)			
5/1/2019	\$759,892			\$11,398.39	\$11,398.39	
11/1/2019	759,892	3.00	\$182,219.00	11,398.39	193,617.39	\$205,015.78
5/1/2020	577,673			8,665.10	8,665.10	
11/1/2020	577,673	3.00	189,973.00	8,665.10	198,638.10	207,303.20
5/1/2021	387,700			5,815.50	5,815.50	
11/1/2021	387,700	3.00	124,064.00	5,815.50	129,879.50	135,695.00
5/1/2022	263,636			3,954.54	3,954.54	
11/1/2022	263,636	3.00	129,879.50	3,954.54	133,834.04	137,788.58
5/1/2023	133,757			2,006.35	2,006.35	
11/1/2023	133,757	3.00	133,756.50	2,006.35	135,762.85	137,769.20
	Totals		<u>\$759,892</u>	<u>\$63,679.76</u>	<u>\$823,571.76</u>	<u>\$823,571.76</u>

Note: The Sewer Fund portion of this bond is reflected. The Water Fund and General Fund also contribute to the payment of principal and interest on this bond.

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$525,644 PRINCIPAL AMOUNT OUTSTANDING
OF OMID SRF BONDS, SERIES 2013A**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
-----In Dollars-----						
4/1/2019	\$7,280,947			\$72,809.47	\$72,809.47	
10/1/2019	7,280,947	2.00	\$390,363	72,809.47	463,172.47	\$535,981.94
4/1/2020	6,890,584			68,905.84	68,905.84	
10/1/2020	6,890,584	2.00	398,440	68,905.84	467,345.84	536,251.68
4/1/2021	6,492,144			64,921.44	64,921.44	
10/1/2021	6,492,144	2.00	406,516	64,921.44	471,437.44	536,358.88
4/1/2022	6,085,628			60,856.28	60,856.28	
10/1/2022	6,085,628	2.00	414,593	60,856.28	475,449.28	536,305.56
4/1/2023	5,671,035			56,710.35	56,710.35	
10/1/2023	5,671,035	2.00	422,669	56,710.35	479,379.35	536,089.70
4/1/2024	5,248,366			52,483.66	52,483.66	
10/1/2024	5,248,366	2.00	431,419	52,483.66	483,902.66	536,386.32
4/1/2025	4,816,947			48,169.47	48,169.47	
10/1/2025	4,816,947	2.00	439,495	48,169.47	487,664.47	535,833.94
4/1/2026	4,377,452			43,774.52	43,774.52	
10/1/2026	4,377,452	2.00	448,918	43,774.52	492,692.52	536,467.04
4/1/2027	3,928,534			39,285.34	39,285.34	
10/1/2027	3,928,534	2.00	457,667	39,285.34	496,952.34	536,237.68
4/1/2028	3,470,867			34,708.67	34,708.67	
10/1/2028	3,470,867	2.00	467,090	34,708.67	501,798.67	536,507.34
4/1/2029	3,003,777			30,037.77	30,037.77	
10/1/2029	3,003,777	2.00	475,839	30,037.77	505,876.77	535,914.54
4/1/2030	2,527,938			25,279.38	25,279.38	
10/1/2030	2,527,938	2.00	485,935	25,279.38	511,214.38	536,493.76
4/1/2031	2,042,003			20,420.03	20,420.03	
10/1/2031	2,042,003	2.00	495,357	20,420.03	515,777.03	536,197.06
4/1/2032	1,546,646			15,466.46	15,466.46	
10/1/2032	1,546,646	2.00	505,453	15,466.46	520,919.46	536,385.92
4/1/2033	1,041,193			10,411.93	10,411.93	
10/1/2033	1,041,193	2.00	515,549	10,411.93	525,960.93	536,372.86
4/1/2034	525,644			5,256.44	5,256.44	
10/1/2034	525,644	2.00	525,644	5,256.44	530,900.44	536,156.88
Totals			<u>\$7,280,947</u>	<u>\$1,298,994.10</u>	<u>\$8,579,941.10</u>	<u>\$8,579,941.10</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$143,000 PRINCIPAL AMOUNT OUTSTANDING
OF SRF BONDS, SERIES 2013B**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
-----In Dollars-----						
4/1/2019	\$3,508,000	2.00	\$180,000	\$35,080.00	\$215,080.00	
10/1/2019	3,328,000			33,280.00	33,280.00	\$248,360.00
4/1/2020	3,328,000	2.00	185,000	33,280.00	218,280.00	
10/1/2020	3,143,000			31,430.00	31,430.00	249,710.00
4/1/2021	3,143,000	2.00	185,000	31,430.00	216,430.00	
10/1/2021	2,958,000			29,580.00	29,580.00	246,010.00
4/1/2022	2,958,000	2.00	190,000	29,580.00	219,580.00	
10/1/2022	2,768,000			27,680.00	27,680.00	247,260.00
4/1/2023	2,768,000	2.00	195,000	27,680.00	222,680.00	
10/1/2023	2,573,000			25,730.00	25,730.00	248,410.00
4/1/2024	2,573,000	2.00	200,000	25,730.00	225,730.00	
10/1/2024	2,373,000			23,730.00	23,730.00	249,460.00
4/1/2025	2,373,000	2.00	205,000	23,730.00	228,730.00	
10/1/2025	2,168,000			21,680.00	21,680.00	250,410.00
4/1/2026	2,168,000	2.00	205,000	21,680.00	226,680.00	
10/1/2026	1,963,000			19,630.00	19,630.00	246,310.00
4/1/2027	1,963,000	2.00	210,000	19,630.00	229,630.00	
10/1/2027	1,753,000			17,530.00	17,530.00	247,160.00
4/1/2028	1,753,000	2.00	215,000	17,530.00	232,530.00	
10/1/2028	1,538,000			15,380.00	15,380.00	247,910.00
4/1/2029	1,538,000	2.00	220,000	15,380.00	235,380.00	
10/1/2029	1,318,000			13,180.00	13,180.00	248,560.00
4/1/2030	1,318,000	2.00	225,000	13,180.00	238,180.00	
10/1/2030	1,093,000			10,930.00	10,930.00	249,110.00
4/1/2031	1,093,000	2.00	230,000	10,930.00	240,930.00	
10/1/2031	863,000			8,630.00	8,630.00	249,560.00
4/1/2032	863,000	2.00	235,000	8,630.00	243,630.00	
10/1/2032	628,000			6,280.00	6,280.00	249,910.00
4/1/2033	628,000	2.00	240,000	6,280.00	246,280.00	
10/1/2033	388,000			3,880.00	3,880.00	250,160.00
4/1/2034	388,000	2.00	245,000	3,880.00	248,880.00	
10/1/2034	143,000			1,430.00	1,430.00	250,310.00
4/1/2035	143,000	2.00	143,000	1,430.00	144,430.00	144,430.00
Totals			<u>\$3,508,000</u>	<u>\$615,040.00</u>	<u>\$4,123,040.00</u>	<u>\$4,123,040.00</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

**SCHEDULE OF AMORTIZATION OF \$3,006,309 PRINCIPAL AMOUNT OUTSTANDING
OF OAKLAND COUNTY CLINTON RIVER WRRF BONDS, SERIES 2017**

Payment Date	Principal Balance (In Dollars)	Interest Rate (%)	Debt Service			Fiscal Year Total
			Principal	Interest	Total	
-----In Dollars-----						
4/1/2019	\$3,006,309			\$37,578.86	\$37,578.86	
10/1/2019	3,006,309	2.50	\$117,215	37,578.86	154,793.82	\$192,372.68
4/1/2020	2,889,094			36,113.67	36,113.67	
10/1/2020	2,889,094	2.50	120,273	36,113.67	156,386.41	192,500.08
4/1/2021	2,768,821			34,610.26	34,610.26	
10/1/2021	2,768,821	2.50	123,331	34,610.26	157,940.78	192,551.04
4/1/2022	2,645,491			33,068.63	33,068.63	
10/1/2022	2,645,491	2.50	126,388	33,068.63	159,456.93	192,525.56
4/1/2023	2,519,102			31,488.78	31,488.78	
10/1/2023	2,519,102	2.50	129,446	31,488.78	160,934.86	192,423.64
4/1/2024	2,389,656			29,870.70	29,870.70	
10/1/2024	2,389,656	2.50	133,013	29,870.70	162,884.19	192,754.89
4/1/2025	2,256,643			28,208.03	28,208.03	
10/1/2025	2,256,643	2.50	136,581	28,208.03	164,788.94	192,996.97
4/1/2026	2,120,062			26,500.77	26,500.77	
10/1/2026	2,120,062	2.50	139,639	26,500.77	166,139.46	192,640.23
4/1/2027	1,980,423			24,755.29	24,755.29	
10/1/2027	1,980,423	2.50	143,206	24,755.29	167,961.39	192,716.68
4/1/2028	1,837,217			22,965.21	22,965.21	
10/1/2028	1,837,217	2.50	146,774	22,965.21	169,738.72	192,703.93
4/1/2029	1,690,444			21,130.54	21,130.54	
10/1/2029	1,690,444	2.50	150,851	21,130.54	171,981.09	193,111.63
4/1/2030	1,539,593			19,244.91	19,244.91	
10/1/2030	1,539,593	2.50	154,418	19,244.91	173,662.87	192,907.78
4/1/2031	1,385,175			17,314.69	17,314.69	
10/1/2031	1,385,175	2.50	158,495	17,314.69	175,809.70	193,124.39
4/1/2032	1,226,680			15,333.50	15,333.50	
10/1/2032	1,226,680	2.50	162,572	15,333.50	177,905.55	193,239.05
4/1/2033	1,064,108			13,301.35	13,301.35	
10/1/2033	1,064,108	2.50	166,649	13,301.35	179,950.44	193,251.79
4/1/2034	897,459			11,218.24	11,218.24	
10/1/2034	897,459	2.50	170,726	11,218.24	181,944.37	193,162.61
4/1/2035	726,733			9,084.16	9,084.16	
10/1/2035	726,733	2.50	174,803	9,084.16	183,887.33	192,971.49
4/1/2036	551,930			6,899.12	6,899.12	
10/1/2036	551,930	2.50	179,390	6,899.12	186,288.97	193,188.09
4/1/2037	372,540			4,656.75	4,656.75	
10/1/2037	372,540	2.50	183,977	4,656.75	188,633.27	193,290.02
4/1/2038	188,563			2,357.04	2,357.04	
10/1/2038	188,563	2.50	188,563	2,357.04	190,920.23	193,277.27
Totals			<u>\$3,006,309</u>	<u>\$851,401.00</u>	<u>\$3,857,709.82</u>	<u>\$3,857,709.82</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

SCHEDULE OF COMBINED DEBT SERVICE - SEWER

Fiscal Year	2007B SRF Bonds	2010 OMID SRF Bonds	2010B OMID RZEDB Bonds	2011 OMID SRF Bonds	2012 Refunding Bonds	2013A OMID SRF Bonds	2013B SRF Bonds	2017 OCCR WRRF Bonds	Total
2019	\$207,582.68	\$222,726.09	\$74,329.16	\$270,520.24	\$205,015.78	\$535,981.94	\$248,360.00	\$192,372.68	\$1,956,888.57
2020	209,657.68	223,306.30	74,392.66	270,809.46	207,303.20	536,251.68	249,710.00	192,500.08	1,963,931.06
2021	206,651.42	223,104.15	74,274.75	270,974.74	135,695.00	536,358.88	246,010.00	192,551.04	1,885,619.98
2022	203,645.16	222,801.05	73,976.80	270,189.06	137,788.58	536,305.56	247,260.00	192,525.56	1,884,491.77
2023	205,638.90	223,062.57	74,146.91	270,954.10	137,769.20	536,089.70	248,410.00	192,423.64	1,888,495.02
2024	202,551.40	223,205.30	74,124.54	270,746.52		536,386.32	249,460.00	192,754.89	1,749,228.97
2025	204,463.90	223,230.26	73,888.15	270,416.02		535,833.94	250,410.00	192,996.97	1,751,239.24
2026	206,295.14	223,138.44	73,434.37	270,788.56		536,467.04	246,310.00	192,640.23	1,749,073.78
2027	190,438.14	222,927.83	73,422.04	271,015.48		536,237.68	247,160.00	192,716.68	1,733,917.85
2028		223,264.03	72,500.47	270,271.80		536,507.34	247,910.00	192,703.93	1,543,157.57
2029		222,801.04	72,726.37	270,230.18		535,914.54	248,560.00	193,111.63	1,543,343.76
2030		222,885.85	72,060.88	270,870.96		536,493.76	249,110.00	192,907.78	1,544,329.23
2031		222,835.05		270,519.46		536,197.06	249,560.00	193,124.39	1,472,235.96
2032				270,850.36		536,385.92	249,910.00	193,239.05	1,250,385.33
2033				270,188.98		536,372.86	250,160.00	193,251.79	1,249,973.63
2034						536,156.88	250,310.00	193,162.61	979,629.49
2035							144,430.00	192,971.49	337,401.49
2036								193,188.09	193,188.09
2037								193,290.02	193,290.02
2038								193,277.27	193,277.27
Totals	<u>\$1,836,924.42</u>	<u>\$2,899,287.96</u>	<u>\$883,277.10</u>	<u>\$4,059,345.92</u>	<u>\$823,571.76</u>	<u>\$8,579,941.10</u>	<u>\$4,123,040.00</u>	<u>\$3,857,709.82</u>	<u>\$27,063,098.08</u>

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

CASH FLOW ANALYSIS - SEWER

	<u>2019</u>		<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>
		Increases Per Year									
Assumptions											
Flat rate - customers charged (quarterly)	1,996		1,996	1,996	1,996	1,996	1,996	1,996	1,996	1,996	1,996
Flat rate charge (quarterly)	\$127.44	2.50%	\$130.63	\$133.89	\$137.24	\$140.67	\$144.19	\$147.79	\$151.49	\$155.27	\$159.16
Flat rate (out of Township) - customers charged (quarterly)	50		50	50	50	50	50	50	50	50	50
Flat rate charge (out of Township) (quarterly)	\$191.16	2.50%	\$195.94	\$200.84	\$205.86	\$211.00	\$216.28	\$221.69	\$227.23	\$232.91	\$238.73
Ready to serve additional units - customers charged (quarterly)	5,454		5,454	5,454	5,454	5,454	5,454	5,454	5,454	5,454	5,454
Ready to serve rate (quarterly)	\$68.62	2.50%	\$70.34	\$72.09	\$73.90	\$75.74	\$77.64	\$79.58	\$81.57	\$83.61	\$85.70
Ready to serve - customers charged (quarterly)	24,873		24,873	24,873	24,873	24,873	24,873	24,873	24,873	24,873	24,873
Ready to serve rate (quarterly)	\$68.62	2.50%	\$70.34	\$72.09	\$73.90	\$75.74	\$77.64	\$79.58	\$81.57	\$83.61	\$85.70
Billed sewer usage (annual 100 cf)	2,144,933		2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933
Sewer usage charge (per 100 cf)	\$3.77	2.50%	\$3.86	\$3.96	\$4.06	\$4.16	\$4.27	\$4.37	\$4.48	\$4.59	\$4.71
<i>Typical Township homeowner's quarterly bill (assumes 600 cf/month)</i>	<i>\$128.94</i>		<i>\$132.16</i>	<i>\$135.47</i>	<i>\$138.85</i>	<i>\$142.33</i>	<i>\$145.88</i>	<i>\$149.53</i>	<i>\$153.27</i>	<i>\$157.10</i>	<i>\$161.03</i>
Revenues											
Flat rate	\$1,017,481		\$1,042,918	\$1,068,991	\$1,095,716	\$1,123,109	\$1,151,186	\$1,179,966	\$1,209,465	\$1,239,702	\$1,270,694
Flat rate (out of Township)	38,232		39,188	40,167	41,172	42,201	43,256	44,337	45,446	46,582	47,747
Ready to serve - additional units	1,497,014		1,534,439	1,572,800	1,612,120	1,652,423	1,693,734	1,736,077	1,779,479	1,823,966	1,869,565
Ready to serve	6,827,141		6,997,820	7,172,765	7,352,084	7,535,886	7,724,283	7,917,391	8,115,325	8,318,208	8,526,164
Sewer usage	8,086,398		8,288,558	8,495,772	8,708,167	8,925,871	9,149,018	9,377,743	9,612,187	9,852,491	10,098,804
Other (includes IWC revenue)	600,000		600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000
Total revenues	18,066,266		18,502,923	18,950,496	19,409,258	19,879,490	20,361,477	20,855,514	21,361,902	21,880,950	22,412,973
Less: Total operating expenditures	(14,238,208)		(13,604,124)	(14,177,477)	(14,724,039)	(15,294,190)	(15,889,132)	(16,510,140)	(17,158,569)	(17,835,865)	(18,543,566)
Net operating revenue	3,828,059		4,898,799	4,773,019	4,685,220	4,585,299	4,472,345	4,345,375	4,203,333	4,045,085	3,869,407
Less: Current debt service payments	(1,956,889)		(1,963,931)	(1,885,620)	(1,884,492)	(1,888,495)	(1,749,229)	(1,751,239)	(1,749,074)	(1,733,918)	(1,543,158)
Estimated cash funded OMID capital expenses	(907,000)		(1,000,000)	(1,000,000)	(1,000,000)	(1,000,000)	-	-	-	-	-
O&M - Clean and Inspect Sewer Mains	-		(100,000)	(100,000)	(100,000)	(100,000)	(100,000)	(125,000)	(125,000)	(125,000)	(125,000)
O&M - Root Control	-		(10,000)	(10,000)	(10,000)	(10,000)	(10,000)	(15,000)	(15,000)	(15,000)	(15,000)
O&M FOG Program	-		(20,000)	(20,000)	(20,000)	(20,000)	(20,000)	(25,000)	(25,000)	(25,000)	(25,000)
Manhole Rehabilitation	-		(74,100)	(80,600)	(84,500)	(85,800)	(89,700)	(94,900)	(94,900)	(99,800)	(105,300)
Sewer Main Repairs - FCIPP	-		(669,818)	(587,933)	(775,055)	(691,505)	(807,088)	(775,663)	(846,818)	(820,875)	(742,425)
Pumping Station - Pump Replacement	-		(300,000)	(320,000)	(340,000)	(360,000)	(380,000)	(400,000)	(420,000)	(440,000)	(460,000)
Pump Station - On-Site Generators	-		(75,000)	(80,000)	(90,000)	(100,000)	(110,000)	(120,000)	(130,000)	(140,000)	(150,000)
Pumping Station - Electrical Panel Replacement	-		(50,000)	(60,000)	(70,000)	(80,000)	(90,000)	(100,000)	(110,000)	(120,000)	(130,000)
Pressure Main Repairs - FCIPP	-		(173,650)	(219,597)	(159,712)	(124,693)	(384,378)	(153,504)	(210,994)	(401,073)	(241,804)
Net cash flow	\$964,170		\$462,300	\$409,270	\$151,461	\$124,806	\$731,950	\$785,068	\$476,547	\$124,419	\$331,721
<i>Cash & investments [1]</i>	<i>\$13,322,496</i>	<i>\$14,286,666</i>	<i>\$14,748,966</i>	<i>\$15,158,236</i>	<i>\$15,309,697</i>	<i>\$15,434,503</i>	<i>\$16,166,453</i>	<i>\$16,951,521</i>	<i>\$17,428,069</i>	<i>\$17,552,488</i>	<i>\$17,884,209</i>

[1] Assumes sewer share of cash & investments is proportional to their revenue contributions to the water & sewer fund

CHARTER TOWNSHIP OF WATERFORD (MICHIGAN) WATER AND SEWER FUND

(Continued)

CASH FLOW ANALYSIS - SEWER

		2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
	Increases Per Year											
Assumptions												
Flat rate - customers charged (quarterly)		1,996	1,996	1,996	1,996	1,996	1,996	1,996	1,996	1,996	1,996	1,996
Flat rate charge (quarterly)	3.50%	\$164.73	\$170.49	\$176.46	\$182.63	\$189.03	\$195.64	\$202.49	\$209.58	\$216.91	\$224.50	\$232.36
Flat rate (out of Township) - customers charged (quarterly)		50	50	50	50	50	50	50	50	50	50	50
Flat rate charge (out of Township) (quarterly)	3.50%	\$247.09	\$255.74	\$264.69	\$273.95	\$283.54	\$293.46	\$303.73	\$314.37	\$325.37	\$336.76	\$348.54
Ready to serve additional units - customers charged (quarterly)		5,454	5,454	5,454	5,454	5,454	5,454	5,454	5,454	5,454	5,454	5,454
Ready to serve rate (quarterly)	3.50%	\$88.70	\$91.80	\$95.01	\$98.34	\$101.78	\$105.34	\$109.03	\$112.85	\$116.80	\$120.88	\$125.11
Ready to serve - customers charged (quarterly)		24,873	24,873	24,873	24,873	24,873	24,873	24,873	24,873	24,873	24,873	24,873
Ready to serve rate (quarterly)	3.50%	\$88.70	\$91.80	\$95.01	\$98.34	\$101.78	\$105.34	\$109.03	\$112.85	\$116.80	\$120.88	\$125.11
Billed sewer usage (annual 100 cf)		2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933	2,144,933
Sewer usage charge (per 100 cf)	3.50%	\$4.87	\$5.04	\$5.22	\$5.40	\$5.59	\$5.79	\$5.99	\$6.20	\$6.42	\$6.64	\$6.87
Revenues												
Flat rate		\$1,315,169	\$1,361,199	\$1,408,841	\$1,458,151	\$1,509,186	\$1,562,008	\$1,616,678	\$1,673,262	\$1,731,826	\$1,792,440	\$1,855,175
Flat rate (out of Township)		49,418	51,147	52,937	54,790	56,708	58,693	60,747	62,873	65,074	67,351	69,708
Ready to serve - additional units		1,935,000	2,002,725	2,072,820	2,145,369	2,220,457	2,298,173	2,378,609	2,461,860	2,548,026	2,637,206	2,729,509
Ready to serve		8,824,579	9,133,440	9,453,110	9,783,969	10,126,408	10,480,832	10,847,661	11,227,329	11,620,286	12,026,996	12,447,941
Sewer usage		10,452,262	10,818,091	11,196,724	11,588,609	11,994,211	12,414,008	12,848,498	13,298,196	13,763,633	14,245,360	14,743,947
Other (includes IWC revenue)		600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000
Total revenues		23,176,427	23,966,602	24,784,433	25,630,889	26,506,970	27,413,714	28,352,194	29,323,520	30,328,844	31,369,353	32,446,280
Less: Total operating expenditures		(19,283,314)	(20,056,860)	(20,866,075)	(21,712,958)	(22,599,648)	(23,528,437)	(24,501,777)	(25,522,300)	(26,592,832)	(27,716,405)	(28,896,281)
Net operating revenue		3,893,113	3,909,742	3,918,358	3,917,931	3,907,321	3,885,277	3,850,417	3,801,220	3,736,012	3,652,948	3,549,999
Less: Current debt service payments		(1,543,344)	(1,544,329)	(1,472,236)	(1,250,385)	(1,249,974)	(979,629)	(337,401)	(193,188)	(193,290)	(193,277)	-
Estimated cash funded OMID capital expenses		-	-	-	-	-	-	-	-	-	-	-
O&M - Clean and Inspect Sewer Mains		(125,000)	(150,000)	(150,000)	(150,000)	(150,000)	(150,000)	(175,000)	(175,000)	(175,000)	(175,000)	(175,000)
O&M - Root Control		(15,000)	(20,000)	(20,000)	(20,000)	(20,000)	(20,000)	(25,000)	(25,000)	(25,000)	(25,000)	(25,000)
O&M FOG Program		(25,000)	(30,000)	(30,000)	(30,000)	(30,000)	(30,000)	(35,000)	(35,000)	(35,000)	(35,000)	(35,000)
Manhole Rehabilitation		(109,700)	(115,600)	(120,100)	(125,000)	(124,900)	(130,100)	(138,800)	(145,900)	(149,400)	(154,900)	(160,300)
Sewer Main Repairs - FCIPP		(1,012,981)	(976,072)	(1,069,528)	(1,035,714)	(1,076,800)	(1,039,259)	(1,232,647)	(1,146,812)	(1,388,771)	(1,178,159)	(1,139,338)
Pumping Station - Pump Replacement		(480,000)	(500,000)	(520,000)	(550,000)	(580,000)	(610,000)	(640,000)	(670,000)	(700,000)	(730,000)	(760,000)
Pump Station - On-Site Generators		(160,000)	(170,000)	(180,000)	(190,000)	(200,000)	(210,000)	(220,000)	(230,000)	(240,000)	(250,000)	(260,000)
Pumping Station - Electrical Panel Replacement		(140,000)	(150,000)	(160,000)	(170,000)	(180,000)	(190,000)	(200,000)	(210,000)	(220,000)	(230,000)	(240,000)
Pressure Main Repairs - FCIPP		(306,084)	(322,527)	(253,597)	(373,256)	(303,512)	(401,228)	(321,836)	(397,403)	(321,018)	(360,315)	(543,014)
Net cash flow		(\$23,995)	(\$68,786)	(\$57,102)	\$23,575	(\$7,864)	\$125,060	\$524,732	\$572,917	\$288,533	\$321,297	\$212,347
Cash & investments [1]		\$17,860,213	\$17,791,427	\$17,734,325	\$17,757,900	\$17,750,036	\$17,875,096	\$18,399,829	\$18,972,746	\$19,261,279	\$19,582,575	\$19,794,922

System, Oakland Macomb Interceptor Drain Drainage District and finally the Great Lakes Water Authority.

Waterford has not reviewed internal sewer rates since September 28, 2015. The 6.5% increase at that time was primarily for financing the SRF Capital Improvement Bond 2013-B for Pump Station improvements.

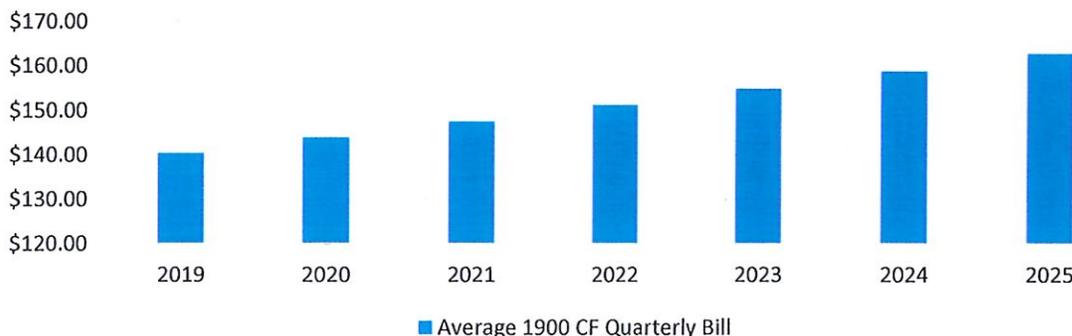
As with the water system rates, the nominal request before the Waterford Township Board of Trustees is a multi-year rate increase. With the exception of the 2020 increase which I would ask the board to implement on April 1st 2020.

Requested Board Action	
Approve Bakertilly Rate Recommendations	Sewer Rate Increase effective January 1st of each year
<i>2020* (4-1-2020) Effective Date</i>	2.5%
2021	2.5%
2022	2.5%
2023	2.5%
2024	2.5%
2025	2.5%

A modest increase to the average Waterford Township Sewer Customer using 1,900 Cubic Feet (CF) of quarterly is displayed below:

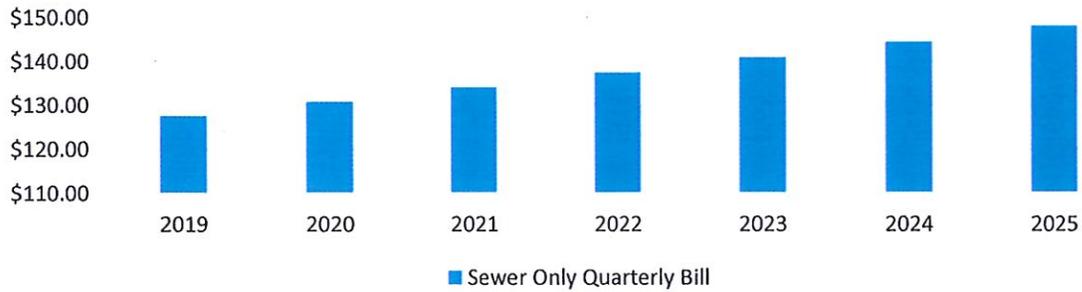
Year	Average 1,900 CF Quarterly Bill	Average Quarterly Increase	Average Monthly Increase
2019	\$140.25		
2020	\$143.76	\$3.51	\$1.17
2021	\$147.35	\$3.59	\$1.20
2022	\$151.03	\$3.68	\$1.23
2023	\$154.81	\$3.78	\$1.26
2024	\$158.68	\$3.87	\$1.29
2025	\$162.65	\$3.97	\$1.32

Average 1900 CF Quarterly Sewer Bill



Year	Sewer Only Quarterly Bill	Quarterly Increase	Annual Increase
2019	\$127.38		
2020	\$130.56	\$3.18	\$1.06
2021	\$133.83	\$3.26	\$1.09
2022	\$137.17	\$3.35	\$1.12
2023	\$140.60	\$3.43	\$1.14
2024	\$144.12	\$3.52	\$1.17
2025	\$147.72	\$3.60	\$1.20

Sewer Only (without Public Water) Quarterly Bill:



**CHARTER TOWNSHIP OF WATERFORD
RESOLUTION
MAY 5, 2020, TEMPORARY POLLING LOCATION RELOCATION**

WHEREAS, the Township Clerk's Office has been notified by the Oakland County Clerk's Office that the Waterford School District has placed a Bond Proposal on the May 5, 2020, Election creating an Election for the Residents of the Charter Township of Waterford.

WHEREAS, the Charter Township of Waterford has twenty-one established polling locations; and

WHEREAS, the Clerk's office has been advised that Precincts 17 and 21, located at Central United Methodist Church, are unavailable for the May 5, 2020, Election.

WHEREAS, Michigan Election Law, MCL 168.662, stipulates that the Township Board of Trustees is responsible for determining the location of polling places in the Township; and

WHEREAS, The Election Commission recommends temporarily relocating Precincts 17 and 21 to the Waterford Regional Fire Department, Administration Training Room, located at 2495 Crescent Lake Road, Waterford, Michigan 48329 for the May 5, 2020, Election.

THEREFORE BE IT RESOLVED that the Charter Township of Waterford in compliance with Michigan Election Law approves the aforementioned temporary precinct polling location; and shall notify all respective registered voters (MCL 168.499(3)).

RESOLVED, that copies of this Resolution shall be transmitted to the Secretary of State, Bureau of Elections, and the Oakland County Clerk's Office.

CERTIFICATION

I hereby certify that this Resolution was adopted by the Charter Township of Waterford Board of Trustees at a special meeting of the Board on February 24, 2020.

Charter Township of Waterford

Date

Kim Markee, Township Clerk

**CHARTER TOWNSHIP OF WATERFORD
TEMPORARY PRECINCT CONSOLIDATION
FOR THE MAY 5, 2020, ELECTION**

- Whereas,** The Township Clerk's Office has been notified by the Oakland County Clerk's Office, that the Waterford School District has placed a Bond Proposal on the May 5, 2020, Election creating an Election for the Residents of the Charter Township of Waterford.
- Whereas,** Pursuant to the Michigan Election Law (MCL 168.659) election precinct consolidation is allowable for a small local election. In May 2020, the combined precincts would operate in the same building, as one Precinct.
- Whereas,** The Township Election Commission has approved the consolidation of Precincts 3 and 7, Precincts 6 and 9, Precincts 12 and 14, Precincts 17 and 21, and Precincts 19 and 20 for the May 5, 2020, Election.
- Whereas,** The Charter Township of Waterford has ten (10) election Precincts, located at the same building. Therefore, Voter's would not need to travel to another Precinct and the temporary Precinct consolidation will provide economic and logistical benefits.
- Whereas,** The Township Clerk's Office anticipates this temporary consolidation will present minimal inconvenience for voters during the May Election with an expected low voter turnout.

Now, therefore, Be It Resolved, the Charter Township of Waterford Board of Trustees approves the temporary precinct consolidation for the following Precincts at the Election to be held on Tuesday, May 5, 2020.

Precincts 3 and 7 Our Lady of the Lakes 5481 Dixie Hwy Waterford, Michigan	Precincts 12 and 14 Waterford Mott High School 1151 Scott Lake Road Waterford, Michigan	Precincts 17 and 21 Waterford Regional Fire Dept. Admin. Training Room 2495 Crescent Lk Rd Waterford, Michigan
Precincts 6 and 9 Kettering High School 2800 Kettering Drive Waterford, Michigan		Precincts 19 and 20 Haviland Elementary School 5305 Cass Elizabeth Rd Waterford, Michigan

CERTIFICATION

I hereby certify that this Resolution was adopted by the Charter Township of Waterford Board of Trustees at a regular meeting of the Board on February 24, 2020.

Date

Kim Markee, Township Clerk