

**AGENDA**  
**CASCADE CHARTER TOWNSHIP**  
**REGULAR BOARD MEETING**

Wednesday, March 14, 2018

7:00 P.M.

Cascade Branch of the Kent District Library, Wisner Center  
2870 Jacksmith, S.E.

**Expected Meeting Procedures**

1. During public comments you may speak on any item not noted on the agenda for a public hearing.
2. Please limit comments to 3 minutes per person and the Board may or may not choose to respond.
3. Please limit your comments to a specific issue.
4. Please turn OFF cellular phones.

**Article 1. Call to Order, Roll Call**

**Article 2. Pledge of Allegiance to the Flag**

**Article 3. Approval of Agenda**

**Article 4. Presentations**

**Article 5. Public Comments-Anything on the Agenda not scheduled for a public hearing. (limit comments to 3 minutes)**

**Article 6. Approval of Consent Agenda**

- a. Receive and File Various Meeting Minutes
  1. Regular Township Board Minutes for 02/28/18.
  2. Planning Commission Minutes for 02/19/18.
- b. Receive and File Reports
  1. Building Department Monthly Report for February, 2018.
  2. 2017 Annual Report 911 Kent County Dispatch Authority
- c. Education Requests
  1. Ron Sabin/Bill Benoit – COCM 2018 Spring Conference – Bay City, MI - May 14-16, 2018.

**Article 7. Financial Actions**

- a. Consider Approval of February, 2018 Payables, Payroll and Transfers.
- b. Consider Approval of December, 2017 Pre-Audit General/Special Funds.

**Article 8. Unfinished Business**

**Article 9. New Business**

- 017-2018**
- a. **Public Hearing – Rezone NW Corner of 28<sup>th</sup> St. and Northern Industrial Dr. to a Planned Unit Development to Allow Two Separate Buildings.**
  - b. **Consider Approval of an Ordinance to Amend the Cascade Charter Township Zoning Ordinance and Zoning Map to Establish the Restaurant Holdings, LLC Planned Unit Development Project. (roll call)**

- 018-2018      **a. Public Hearing – Rezone the Southeast Corner of Orange and Peace St. to R2 from B1.**
- b. Consider Approval of a Conditional Rezoning Agreement between Beniteau Residential, LLC and Cascade Charter Township for the Property at 2768 Orange Avenue S.E.**
- 019-2018      **a. Public Hearing – Acceptance and Use of Community Development Block Grant. (CDBG)**
- b. Consider approval of Resolutions of Acceptance and Use of Community Development Block Grant (CDBG). (roll call)**
- 020-2018      **a. Public Hearing – Amend the Centennial PUD to Allow for 9 Additional Residential Units at the Corner of Thornhills and Tahoe.**
- b. Consider Approval of an Ordinance to Amend Ordinance #3 of 2013, the Centennial Park Planned Unit Development Project. (roll call)**
- 021-2018      **Consider Approval of Participating in Multi-Jurisdictional Transportation Plan for the Four Corners Area.**
- 022-2018      **Consider Approval of a Request from KDL for Music Programming Funding.**
- 023-2018      **Consider Approval of Contract with Hamilton Helicopter Inc. for Gypsy Moth Suppression Services.**
- 024-2018      **Consider Approval of the Water and Sewer Master Agreement with the City of Grand Rapids.**
- 025-2018      **Consider Approval of Appointments to Planning Commission.**

**Article 10. Public Comments – Any comments...whether it is on the Agenda or not. (limit comments to 3 minutes)**

**Article 11. Manager Comments**

**Article 12. Board Member Comments**

**Article 13. Adjournment**

**DRAFT**

**MINUTES OF THE  
CASCADE CHARTER TOWNSHIP  
REGULAR BOARD MEETING**

Wednesday, February 28, 2018  
7:00 P.M.

**Article 1.** Supervisor Beahan called the meeting to order.  
Present: Supervisor Beahan, Clerk Slater, Treasurer Peirce, Trustee Shipley and McDonald.  
Absent: Trustee Lewis and Koessel  
Also Present: Manager Swayze DDA/ED Director Korhorn and those listed in Supplement #1.

**Article 2.** Supervisor Beahan led the Pledge of Allegiance to the Flag.

**Article 3.** Motion was made by Trustee McDonald and supported by Treasurer Peirce to approve the Agenda as presented. Motion carried.

**Article 4. Presentations**

**Article 5. Public Comments-Anything on the Agenda not scheduled for a public hearing. (limit comments to 3 minutes)**

**Article 6. Approval of Consent Agenda**

- a. Receive and File Various Meeting Minutes
  - 1. Regular Township Board Minutes for 02/14/18
  - 2. Planning Commission Minutes for 01/08/18 & 02/15/18
  - 3. Zoning Board of Appeals Minutes for 12/12/17
  - 4. Downtown Development Authority Minutes for 1/16/18
- b. Receive and File Reports
  - 1.
- c. Receive and File Communication
  - 1. Comcast Letter Re: Programming Updates
  - 2. Right Place Letter Re: Annual Contribution
- d. Education Requests
  - 1. Jim Walker – EMS Instructors Conference – March 22 – 25; Traverse City MI

Motion was made by Trustee Shipley and supported by Trustee McDonald to approve the Consent Agenda as presented. Motion carried.

**Article 7. Financial Actions**

- a. Consider Approval of January 2018 Payables, Payroll and Transfers  
Motion was made by Trustee McDonald and supported by Clerk Slater to approve the January 2018 Payables, Payroll and Transfers. Motion carried.

**Article 8. Unfinished Business**

**Article 9. New Business**

**009-2018 Consider Approval of a Bid to Install Pickleball Courts at the Cascade Recreation Park.**

Motion was made by Trustee McDonald and supported by Clerk Slater to approve the Bid to Racquet Sports in the amount of \$32,800 to install Pickleball Courts at the Cascade Recreation Park. Motion carried.

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- 010-2018**      **Consider Approval of a bid for Interior Renovation Work at the Burton Park storage facility.**  
Motion was made by Trustee McDonald and supported by Trustee Shipley to approve the bid from Blackstar in the amount of \$103,460.00 for the interior Renovation Work at the Burton Park storage facility. Motion carried.
- 011-2018**      **Consider Approval of Resolution for Road Closures for the Grand Rapids Saladin Shriners Parade on 9/22/18.**  
Motion was made by Trustee McDonald and supported by Trustee Shipley to approve the Road Closures for the Grand Rapids Saladin Shriners Parade on 9/22/18. Motion carried by roll call vote.
- 012-2018**      **Consider Approval of Resolution Declaring Intent to Work Toward Implementation of Recommendations Necessary to Receive Redevelopment Ready Communities (RRC) Certification.**  
DDA/ED Director Korhorn reviewed the certification program with the Board. Motion was made by Trustee McDonald and supported by Trustee Shipley to approve the Resolution Declaring Intent to Work toward Implementation of Recommendations Necessary to receive Redevelopment Ready Communities Certification. Discussion followed. Motion carried by roll call vote.
- 013-2018**      **Consider Approval of the Letting of the Request for Proposals for Banking Services.**  
Manager Swayze reviewed the process with the Board. Motion was made by Trustee McDonald and supported by Treasurer Peirce to approve the Letting of the Request for Proposals for Banking Services. Motion carried.
- 014-2018**      **Consider Approval of the Construction Board of Appeals Agreement with all Building Department Customer Communities.**  
Manager Swayze reviewed the function of the Construction Board of Appeals. Motion was made by Trustee Shipley and supported by Trustee McDonald to approve the Construction Board of Appeals Agreement with all Building Department Customer Communities. Motion carried.
- 015-2018**      **Consider Approval of Copier Purchases for Township Hall.**  
Manager Swayze reviewed the copier needs with the Board. Motion was made by Trustee McDonald and supported by Trustee Shipley to approve the Copier Purchases to Konica Minolta in the amount of \$24,745. Motion carried.
- 016-2018**      **Consider Approval of the Resolution Adopting MERS Defined Contribution Plan Agreement.**  
Manager Swayze reviewed the proposed retirement program with the Board. Motion was made by Trustee Shipley and supported by Trustee McDonald to approve the Resolution

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Adopting MERS Defined Contribution Plan Agreement.  
Discussion followed. Motion carried by roll call vote.

**Article 10. Public Comments – Any comments...whether it is on the Agenda or not. (limit comments to 3 minutes)**  
Deputy Ryan Rowe, Community Policing, reviewed items happening within the Township.

**Article 11. Manager Comments**

**Article 12. Board Member Comments**

Trustee Shipley offered the following comments:

- Thanking everyone in attendance for coming.

Treasurer Peirce offered the following comments:

- Tax collection activity as of today, we have collected 98.78% of the taxes as opposed to 98.77% last year.

Trustee McDonald offered the following comments:

- Thanks to Ben Swayze and the Finance Committee for the job on the MERS recommendation.

**Article 13. Adjournment**

Motion was made by Treasurer Peirce and supported by Trustee Shipley to adjourn. Motion carried.

Meeting adjourned at 7:50 p.m.

Respectfully submitted,

Denise M. Biegalle  
Deputy Clerk

Approved by:

\_\_\_\_\_  
Susan B. Slater, Clerk

\_\_\_\_\_  
Robert S. Beahan, Supervisor

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## MINUTES

Cascade Charter Township  
Planning Commission  
Monday, February 19, 2018  
7:00 P.M.

**ARTICLE 1.** Chairman Sperla called the meeting to order at 7:00 P.M.  
Members Present: Johnson, Katsma, Noordyke, Pennington, Rissi and Robinson  
Members Absent: Lewis, Williams (resigned)  
Others Present: Community Development Director, Steve Peterson and those listed on the sign in sheet.

**ARTICLE 2. Pledge of Allegiance.**

**ARTICLE 3. Approve the current Agenda.**

**Motion was made by Member Rissi to approve the Agenda. Supported by Member Pennington. Motion carried 7 to 0.**

**ARTICLE 4. Approve the Minutes of the January 8, 2018 meeting.**

**Motion was made by Member Johnson to approve the minutes of January 8, 2018 (with noted corrections). Supported by Member Rissi. Motion carried 7 to 0.**

**ARTICLE 5. Approve the Minutes of the February 5, 2018 meeting.**

**Motion was made by Member Rissi to approve the minutes of February 5, 2018. Supported by Member Johnson. Motion carried 7 to 0.**

**ARTICLE 6. Acknowledge visitors and those wishing to speak to non-agenda items.**

Mr. Ken Carey came forward to speak in regards to a lawsuit that he had with a neighbor regarding storm water.

**ARTICLE 7. Case #17-3421 Lacks Enterprises  
Property Address: 5460 Cascade Road**

**Requested Action:** Recommendation to the Township Board for approval of the Golfview PUD amendment to allow short and mid-term lodging building for Lacks Enterprises.

Director Peterson noted that at the Public Hearing on February 5, 2018, the Planning Commission awarded preliminary approval of the site plan and instructed staff to write the PUD amendment for the project. The PUD amendment has been reviewed by Applicant and addresses all of their comments, as well as the approval from the Planning Commission.

Director Peterson recommends that the Planning Commission forward a positive recommendation to the Township Board for approval of the PUD amendment and site plan.

Chairman Sperla invited the Applicant to come forward with any comments.

Applicant offered no additional comments.

**Motion was made by Member Noordyk to forward a positive recommendation to the Township Board for approval of the PUD amendment and site plan. Supported by Member Johnson. Motion carried 7 to 0.**

**ARTICLE 8. Adjournment**

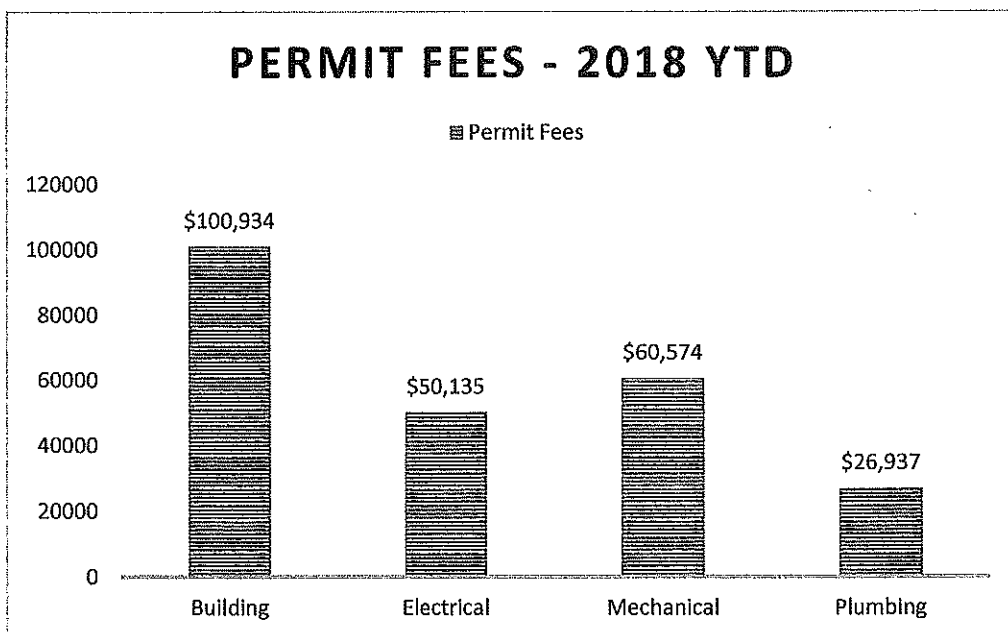
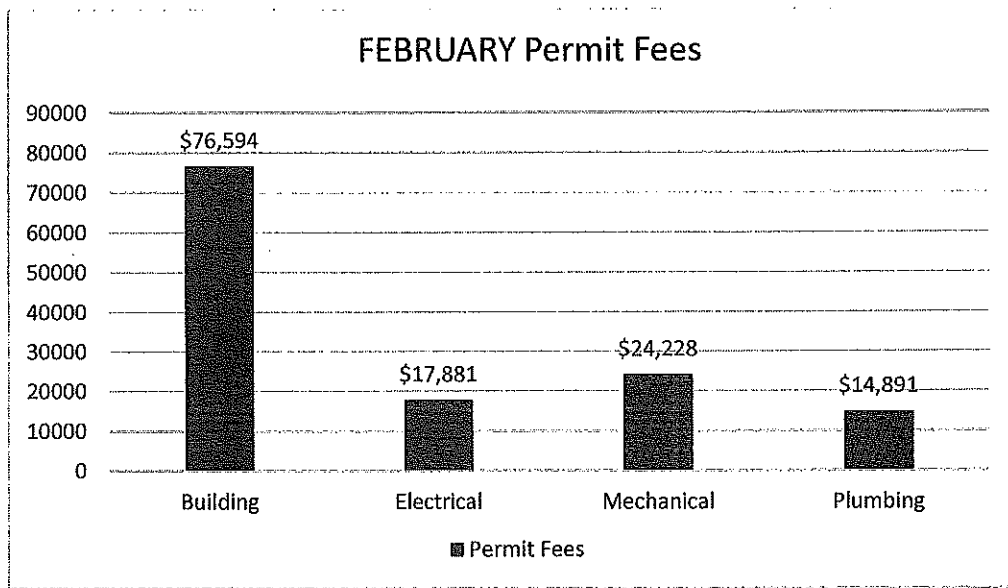
**Motion was made by Member Johnson to adjourn. Supported by Member Robinson. Motion carried 7 to 0. The meeting was adjourned at 7:15 p.m.**

Respectfully submitted,  
Phil Johnson, Secretary

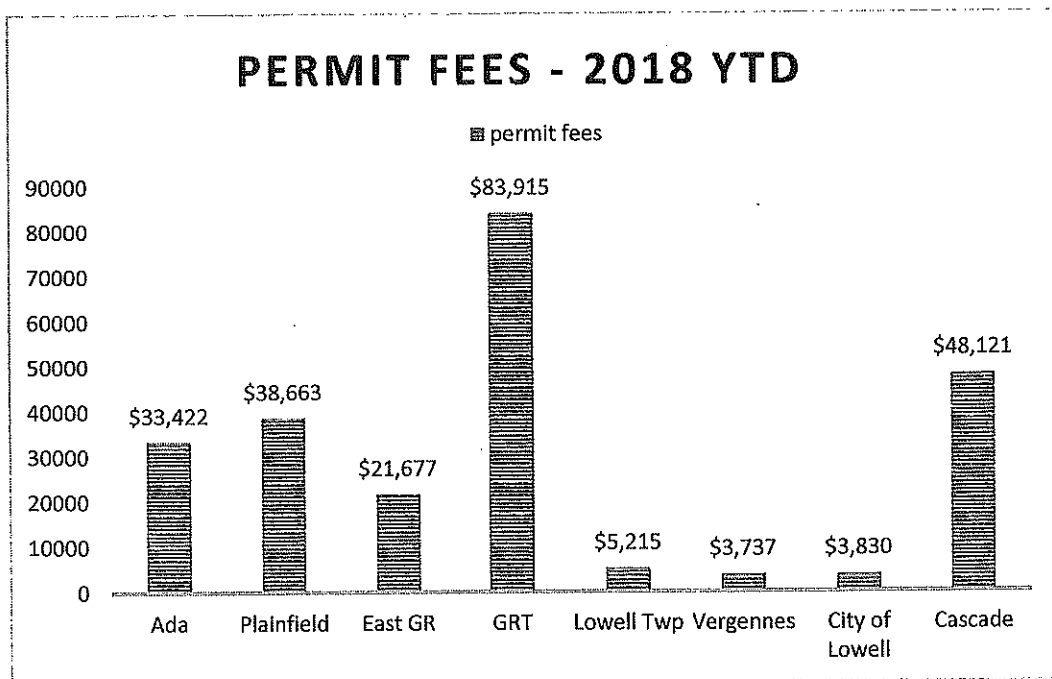
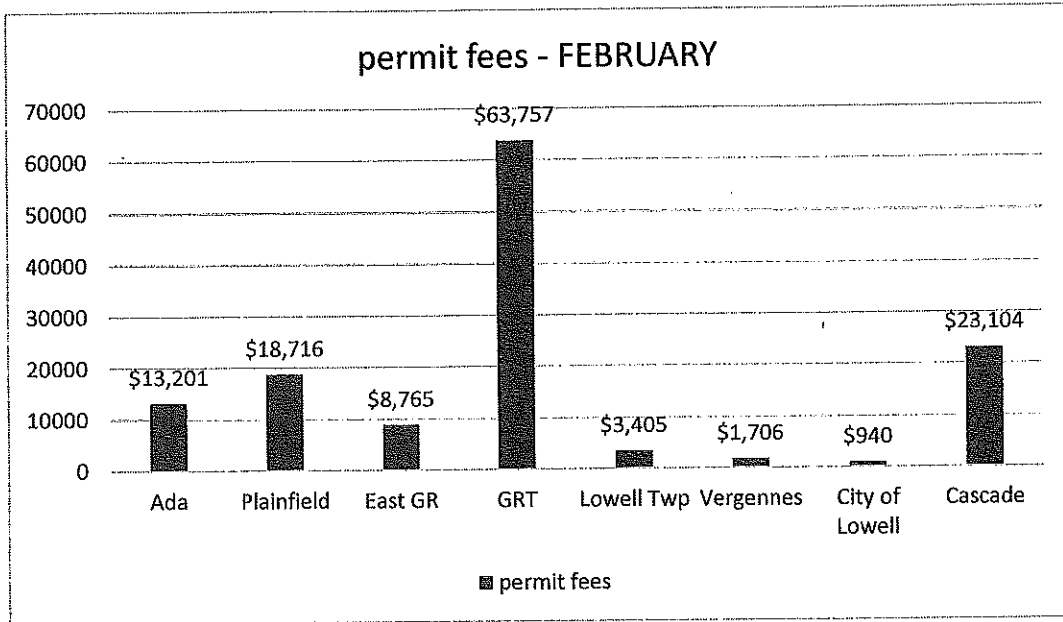
# Cascade Inspection Services

FEBRUARY 2018

## Permit Fees by Type



# Permit Fees by Municipality



Township	# of Per Building	# of Per Electrical	# of Per Mechanical	# of Per Plumbing	Total Permits	Total Fees
PREV YTD TOTAL	67	198	275	95	635	\$104,985.75
FEBRUARY						
Cascade	26	29	50	23	128	\$23,104.05
Lowell Twp	4	5	6	6	21	\$3,405.00
Ada	18	20	30	16	84	\$13,201.00
Vergennes		1	7	3	11	\$1,706.00
GR Twp	18	10	24	16	68	\$63,757.00
EGR	16	13	24	16	69	\$8,765.00
Plainfield		46	77	25	148	\$18,716.00
City of Lowell	3	2	2	2	9	\$940.00
<b>MONTH TOTAL</b>	<b>85</b>	<b>126</b>	<b>220</b>	<b>107</b>	<b>538</b>	<b>\$133,594.05</b>

YTD 2018	152	324	495	202	1173	\$238,579.80
TOTAL-2017	1758	2210	3273	1485	8726	\$1,762,559.25
TOTAL-2016	1475	1992	3217	1404	8088	\$1,414,495.24
TOTAL-2015	1510	1948	3070	1361	7889	\$1,594,801.81
TOTAL-2014	1354	1780	2860	1257	7251	\$1,469,705.70
TOTAL-2013	1241	1667	2583	969	6460	\$1,409,673.76
TOTAL-2012	1,122	1,349	2,134	835	5,440	\$1,065,999.29
TOTAL-2011	949	990	1585	753	4277	\$859,303.35
TOTAL-2010	850	1330	1644	625	4449	\$756,490.25
TOTAL-2009	712	875	1313	554	3463	\$571,382.75
TOTAL-2008	848	1043	1348	697	3933	\$951,266.55
TOTAL-2007	1032	1069	1447	778	4326	\$723,879.15
TOTAL-2006	1181	1547	2147	1243	5173	\$940,523.41
TOTAL-2005	1032	1369	1874	1111	5386	\$967,209.45

	JAN	FEB	MARCH	APR	MAY	JUNE	JULY	AUGUST	SEPT	OCT	NOV	DEC	TOTAL
<b>Township</b>							2018						
Ada Twp	\$20,221.00	\$13,201.00											33,422.00
Permit Fees													-
Special Insp													-
Ada Total	\$20,221.00	\$13,201.00											33,422.00
Plainfield	\$19,947.25	\$18,716.00											\$38,663.25
Permit Fees													-
Special Insp													-
Plainfield Total	\$19,947.25	\$18,716.00											38,663.25
East Gr	\$12,912.00	\$8,765.00											21,677.00
Permit Fees													-
Special Insp													-
East Gr Tot	\$12,912.00	\$8,765.00											21,677.00
GR Twp	\$20,157.50	\$63,757.00											83,914.50
Permit Fees													-
Special Insp													-
GR Twp tot	\$20,157.50	\$63,757.00											83,914.50
Lowell Twp	\$1,810.00	\$3,405.00											5,215.00
Permit Fees													-
Special Insp													-
Lowell Tot	\$1,810.00	\$3,405.00											5,215.00
Vergennes	\$2,031.00	\$1,706.00											3,737.00
Permit Fees													-
Special Insp													-
Verg Total	\$2,031.00	\$1,706.00											3,737.00
City of Low	\$2,890.00	\$940.00											\$3,830.00
Permit Fees													-
Special Insp													-
L. City Tot	\$2,890.00	\$940.00											\$3,830.00
Subtotal	\$79,968.75	\$110,490.00											190,458.75
Cascade	\$25,017.00	\$23,104.05											48,121.05
Total w/ Cas	\$104,985.75	\$133,594.05											238,579.80
			2018 YTD	\$238,579.80			2017 YTD	\$ 238,321.00				DIFFERENCE	\$258.80
<b>GRAND TOTAL PERMIT FEE CHART</b>													

**CASCADE CONSOLIDATED FEES**

YEAR 2018

MONTH	YEAR 2018				TOTAL	
	Building Comm.	Building Residential	Electrical	Mechanical		Plumbing
JANUARY	\$400.00	\$2,583.00	\$12,791.00	\$6,745.00	\$2,498.00	\$25,017.00
FEBRUARY	\$1,755.00	\$7,545.00	\$4,284.00	\$6,710.05	\$2,830.00	\$23,104.05
MARCH						
APRIL						
MAY						
JUNE						
JULY						
AUGUST						
SEPTEMBER						
OCTOBER						
NOVEMBER						
DECEMBER						
<b>YEAR END TOTAL</b>	<b>\$2,155.00</b>	<b>\$10,128.00</b>	<b>\$17,065.00</b>	<b>\$13,455.05</b>	<b>\$5,328.00</b>	<b>\$48,121.05</b>
PERMIT # FOR MONTH	10	16	29	50	23	128
PREV PERMIT TOTAL	4	12	29	54	24	123
PERMIT TOTAL FOR YR	14	28	58	104	47	251
YEAR TO DATE	2018	\$48,121.05				
YEAR TO DATE	2017	\$85,191.00				
UNDER	\$37,069.95					

# CASCADE SINGLE FAMILY HOMES

	FEB	YTD 2018	2017	2016	2015
Number of Permits					
New Residential Homes	5	6	57	56	62
VALUE - RESIDENTIAL	\$ 2,656,513.00	\$ 2,841,513.00	\$ 32,980,308.00	\$ 24,019,640.00	\$ 26,706,215.00

# Cascade Twp -Permit Report by Category/ Fee

2/1/2018 12:00:0 to 2/28/2018 12:00:

Permit	Applicant	Address	Issue Date	Project Value	Permit Fee	Work Description
Res. Single Family						
PB18000091	SCHLABACH WAYNE	6311 BAINBROOK WAY	02/28/2018	788,744	2,062.00	TOWNHOUSE - BAYBERRY CHAS
PB18000104	MORAN BUILDERS IN	2165 THORNAPPLE RIVER DR S	02/06/2018	415,000	717.00	RESIDENCE W/UNFINISHED BASE
PB18000118	ENGELSMAN HOMES L	8165 ASHWOOD DR SE	02/12/2018	650,000	953.00	RESIDENCE W/FINISHED BASEMI
PB18000125	EASTBROOK HOMES I	8925 ONEAL WOODS CT SE	02/15/2018	302,769	801.00	RESIDENCE
PB18000151	THOMAS MICHAEL H	6538 ROUND HILL CT SE	02/15/2018	500,000	1,121.00	RESIDENCE W/FINISHED BASEMI
				2,656,513	5,654.00	

5	Permits	Value Total	2,656,513	5,654.00	Fee Total
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# 911

KENT CO.  
DISPATCH  
AUTHORITY



## 2017 ANNUAL REPORT

KCDA 800 MHZ RADIO PROJECT

**Ronald Bonneau, ENP, CMCP**  
Executive Director, KCDA



## **TO OUR STAKEHOLDERS AND CONSTITUENTS:**

The Kent County Dispatch Authority celebrated its 10th anniversary in 2017 undertaking our biggest challenge to date: Enhancing public safety for all residents and first responders by upgrading to a new, County-wide radio system for all users.

The present system is one that has been in place for decades – and while reliable – it poses challenges for our police and fire personnel with regards to having clear, effective and interactive communication with other agency personnel within and outside of the County.

With our residents and first responders in mind, we decided that it was critical that we review modern, state-of-the-art alternatives that would improve our communication services, enhancing public safety and reliability.

As you review this annual report, we hope you feel confident in the progress we've made this year; and with us, look forward to the enhancements that are yet to come.





As you will recall, voters approved a 2016 surcharge in Kent County, increasing the local 9-1-1 phone surcharge from \$.45 to \$1.15 per device, per month. The revenue resulting from this increase is being used for several initiatives that will improve KCDA's services, including the purchase and installation of a new county-wide radio system for all police and fire agencies.

This initiative allows police and fire from throughout Kent County to update their current technology, providing new fire and police radios to all County public safety personnel. The new system allows for more effective and simplified communication among responders within Kent County and from outside agencies. Additionally, the new system will save taxpayer money as old network operations and costs will be discontinued.

The county-wide radio system will include a 12 site, 20 channel 700/800 MHz system, which will allow Kent County fire and police personnel to join the statewide Michigan Public Safety Communication System (MPSCS). For this new radio system, we signed a contract with Motorola for \$23.6 million in December 2016.

After signing, our implementation team from KCDA, Grand Rapids Police and Fire Departments and the Kent County Sheriff's Office attended the staging process for the new radio system. After this was successfully completed, we signed for shipment of the materials, triggering a milestone payment for the project.

Shortly after, we received a shipment from Motorola in January and another in July of 2017. Collectively, these shipments included 40 racks of backroom equipment as well as 3,800 portable and mobile radios and control stations, which we secured, inventoried and organized by department for distribution. Both shipments triggered additional milestone payments for the project, which can be referenced in Table 1.

In effort to ensure we could cover any unanticipated costs associated with the purchase and implementation of this system, KCDA authorized an additional \$800,000 project contingency fund for unexpected issues that may arise during the process. As of Nov. 17, 2017, \$27,520 of the contingency fund has been used to cover unanticipated costs.

As part of the new radio system, we felt it was critical to move forward with the purchase of radio pagers, which can be used in the new system by all fire departments in the County, with the exception of Grand Rapids, who does not use radio paging.

To implement this initiative, we signed a \$565,990 contract with TeleRad Radio Communications of Grand Rapids in May 2017 for 925 Unication G5 Dual Band fire radio pagers, which have since been received, inventoried and secured by the KCDA.

Each of these pagers will be programmed by staff at the Kent County Sheriff's Office and then dispersed to all fire departments. As of Nov. 30, 2017, we've already distributed pagers and associated equipment to the fire departments for Algoma Township, Alpine Township, Oakfield Township, as well as to the Kent County Dispatch locations. The number of units distributed and the value of the equipment can be found in the table below.

<b>AGENCY</b>	<b>MODEL #</b>	<b>NUMBER OF UNITS</b>	<b>VALUE</b>
Algoma Twp FD	Unication G5	34	\$21,267
Alpine Twp FD	Unication G5	40	\$25,020
Kent Co PSAP	Unication G5	4	\$ 2,502
Oakfield Twp FD	Unication G5	18	\$11,259
<b>TOTAL</b>		<b>96</b>	<b>\$60,048</b>

## **COVERING THE COSTS**

While the radio system is a large investment, we are confident that its worth will be proven immediately. To pay for system and all associated components, as well as to provide a project contingency fund, Kent County sold a bond for \$25.2 million. We have agreed to pay the bond back over a 20-year period, using 9-1-1 surcharge revenues.

**Table 1 – KCDA 800 MHz Radio Project – Milestone Payment Status**

<b>MILESTONE EVENT</b>	<b>PAYMENT TO MOTOROLA</b>
Staging of KCDA System December 2016	\$3,416,632
Receipt of Equipment January 2017	\$5,967,673
Receipt of Equipment July 2017	\$3,481,142.70
Receipt of Equipment November 2017	\$497,306.10
<b>TOTAL PAID TO DATE</b>	<b>\$13,362,753.80</b>

**Table 2 – KCDA Unification Fire Radio Pager Project – Milestone Payment Status**

<b>MILESTONE EVENT</b>	<b>PAYMENT TO TELE RAD</b>
Milestone Event Delivery of 2 G5 Pagers, May 2017	\$1,251
Delivery of 5 G5 Pagers, June 2017	\$3,127.50
Delivery of 33 G5 Pagers, June 2017	\$22,641.50
Delivery of 885 G5 Pagers, July 2017	\$538,969.80
<b>TOTAL PAID TO DATE</b>	<b>\$565,989.80</b>

## PROJECT STEERING COMMITTEE

In the excitement surrounding the project, KCDA convened a Project Steering Committee that would be tasked with making recommendations to the KCDA Board in reference to technical and operational issues associated with the system.

### The members of the Steering Committee include:

NAME	FROM	REPRESENTING
Captain Scott Brown, Project Mgr.	Kent Co Sheriff	Kent County Sheriff
Manager Matt Groesser	Kent Co Sheriff	Kent County PSAP
Tech Supervisor Eric Hutchinson	Kent Co Sheriff	Kent County PSAP
Captain Peter McWatters	Grand Rapids PD	Grand Rapids PD
Manager Karen Chadwick, ENP	Grand Rapids PD	Grand Rapids PSAP
Deputy Chief Meg Felix	Grand Rapids FD	Grand Rapids FD
Captain Kim Koster	Wyoming PD	Large Police Agencies
Chief Andy Milanowski	Sparta PD	Small Police Agencies
Mr. Kevin Walk	Life Ambulance	Ambulance Services
Lt. Ross Tibbets	Kentwood FD	Large Fire Agencies
Chief Mike Rexford	Kent City FD	Small Fire Agencies
Exec Director Ronald Bonneau	KCDA	KCDA Exec Board

Since the Project Steering Committee began meeting in February of 2017, the group has developed several policies and procedures relating to the implementation of the radio system.

Specifically, the committee has developed fire and police talk groups, which allows agencies to have individual channels for daily emergency communications as well as individual channels with other public safety agencies; individual channels for special units, task force operations and special events; channels for interaction with support agencies, such as public works, animal control and others; channels with agencies outside of Kent County when mutual assistance is requested or rendered; and access to local, state and federal agencies for more effective communication during critical incidents, natural or manmade disasters, or homeland security incidents.

The committee also developed a matrix for use by MPSCS for the creation of talk group templates that can be downloaded into each mobile and control station radio, as well as workstation templates for both dispatch locations to access fire and police units and personnel.

Managing and performing maintenance on the system has been a top priority for the committee, who has developed a plan to carry out these tasks, as well as a strategy for training, installing and deploying over 3,800 mobile and portable radios to fire and police personnel throughout Kent County.

Each of these efforts put forth by the committee will ensure the system will act as the most robust and useful radio network for first responders and the citizens of Kent County—a major goal of ours.



## **ADMINISTRATIVE AND TECHNICAL TEAM EFFORTS**

Along with the new radio system initiatives, members of the KCDA – those who make up the Administrative and Technical Team – have been working on several other actions with the KCDA attorney since the passage of the surcharge increase in November of 2016.

The team consists of KCDA executive director Ronald Bonneau, ENP; project manager Captain Scott Brown; dispatch center managers Karen Chadwick, ENP of Grand Rapids; Matt Groesser of Kent County Sheriff's Office; as well as selected support staff.

The team has been working on written documents required by MPSCS, all of which have been completed and accepted by MPSCS, as well as reviewing zoning issues concerning new tower locations. The team has worked with the Federal Aviation Administration, Michigan Department of Transportation, Federal Communications Commission, MPSCS, Pyramid (the tower contractor) and Motorola on the issues regarding tower locations, and have also worked on lease agreements for the use of land and/or towers for our new radio equipment with both governmental and commercial entities.

Additionally, we've received several co-location requests from other entities who wish to join MPSCS and use our current and potential towers for their radio equipment, including DTE, and the Administrative and Technical team has done a great job managing these requests.

The team has also managed contract issues regarding the potential use of fiber to interconnect our towers with a ring configuration that will ensure greater redundancy, reliability and efficiency of the system.

Aside from these efforts, and with the assistance of MPSCS, Motorola engineers, TeleRad and Pyramid, the Administrative and Technical team has focused attention on several more complex projects, including site determinations for new radio towers.

Specifically, the team is working to identify locations that will give Kent County optimal area coverage and ensure internal building radio penetration to and from mobile radios, which is critical in the City of Grand Rapids and near other significant structures such as hospitals.

Several tower locations are in consideration and in the process of being finalized. The locations still in the evaluation process include TRT at 92nd St., John Ball Zoo, Alto Fire Department, Timpson/Cumberland, and the Kentwood/Patterson sites.

The towers that are currently in the finalization stages include Honor Camp, 10 Mile, North Substation, Belknap and Gezon Water Tower. These tower sites have had a structural analysis and have received



FAA approval. Additionally, we've developed remediation plans for each tower that required one. These are in the final planning stages for development of a network ring that will connect the towers with one another for reliability, resiliency and redundancy.

Additionally, this network ring will interconnect with the statewide, MPSCS radio network, allowing Kent County fire and police to communicate with agencies outside of the County who are also on the MPSCS network. These include Ottawa and Allegan Counties, Michigan State Police, Michigan Department of Natural Resources, DTE Energy, Spectrum Hospital and many others.

The team has also worked on grounding evaluations and remediation of sites where required.

With regard to our new radio system, the Administrative and Technical Team has contributed to planning for logistical issues, such as programming 2,800 portable, mobile radios and control stations, as well as 925 Unication G5 fire radio pagers. Additionally, the team is planning the programming and installation of more than 1,000 mobile radios in police cars, fire apparatus and other response vehicles, as well as providing the required user, administrative and technical training for dispatch location staff who use and maintain the equipment.

## **SEPARATE INITIATIVES**

In addition to the updated radio system, we are also allocating an additional \$2 million dollars annually between the County's two 9-1-1 dispatch centers, beginning in 2018. These funds will offset fire dispatch costs throughout Kent County.

Finally, we are working to provide both 9-1-1 dispatch centers with Next Generation 9-1-1 technology, while implementing an IP-based 9-1-1 service provider (Peninsula Fiber Network) which will allow Next Generation 9-1-1 services to the citizens of Kent County.

We look forward to continuing to make progress on these and other initiatives in 2018 and invite you to visit us at [kent911.org](http://kent911.org) for further information.

Ronald Bonneau, ENP, CMCP  
Executive Director



**911**

KENT CO.  
DISPATCH  
AUTHORITY

[kent911.org](http://kent911.org)  
1155 28th St. SW  
Wyoming, MI 49509



# COCM 2018 SPRING CONFERENCE

May 14 - 16, 2018

## CONFERENCE REGISTRATION FORM

Fillable PDF form, simply enter all information prior to printing. Incomplete forms will not be processed. One form per person. Multiple forms may be submitted with one check. COCM is not able to accept credit cards at this time. Payment to be cash or check.

**HOTEL / CONFERENCE LOCATION: Double Tree Inn One Wenonah Park Place Bay City, MI. 48708**  
*Hotel Information/Reservations 989-891-6000 or 800-222-TREE*

**HOTEL ACCOMODATIONS ARE NOT INCLUDED IN THE CONFERENCE FEE.** Be sure to mention you are with COCM when making your reservation to receive the COCM special rate. Book early to obtain the COCM room rate.

**Please send your Completed Registration, Membership Form (if not already a 2018 member) and Payment to COCM, so that it is received no later than April 24, 2018.**  
**Additional Conference fees will apply for late registrations (see registration information below)**

Name: RON SABIN		Jurisdiction representing: CASCADE TWP	
Mailing address 2865 THORNHILLS	City GRAND RAPIDS	State: MI	Zip code: 49546
Telephone number: 616-949-3765	Email Address: ronsabin@cascadetwp.com	ICC Member? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
		Public Act 54 #: 005221	

Act 54 Reg. Type (check all applicable)     BO     BI     PR     ELEC     MECH     PLUMB     FIRE     OTHER

**CONFERENCE ATTENDANCE:** Please check the appropriate boxes below. Your conference registration, the membership form (if not submitted yet) and payment must be received by April 13, 2018 to take advantage of the Early Registration Discount!

<input checked="" type="checkbox"/> FULL Conference: Early Registration = \$160.00 (all or multiple days) if submitted before April 24, 2018 <input type="checkbox"/> FULL Conference: Late Registration = \$185.00 if received after April 24, 2018	Enter Conference fee here.....
<input type="checkbox"/> SINGLE Day Rate (For Single Day registration only, please check the <u>day</u> you will be attending below) <u>Early Registration = \$85.00 (single day rate) \$110.00 (single day rate) if received after April 24, 2018</u> <input type="checkbox"/> Monday May 14 <input type="checkbox"/> Tuesday May 15 <input type="checkbox"/> Wednesday May 16	
<b>2018 COCM MEMBERSHIP:</b> Membership Dues are \$40 per member. Membership is required to participate in the conference. Membership applications can be found at the COCM website.  <u>If have not submitted 2018 membership dues yet, a completed membership form and the \$40 DUES payment must be submitted with your conference registration and fees.</u> Check the COCM website for the current list of 2018 paid members.	Enter Membership fee (if applicable) here
<b>Conference fee + Membership Dues (if not yet a member) = TOTAL AMOUNT .....</b>	<b>\$ 200</b>

Please make check payable to COCM and mail with registration form to:  
**COCM**  
**PO Box 6433**  
**Plymouth, MI 48170**

**COCM CONTACT INFORMATION**  
[www.cocm.org](http://www.cocm.org)  
[cocm1@yahoo.com](mailto:cocm1@yahoo.com)  
**810-404-7645**

*Please do not send to one of the Board Officers as doing so will only delay your registration.*



# Code Officials Conference of Michigan

## 2018 Membership Application

January 1, 2018 – December 31, 2018

This form is a PDF fillable form. Download, fill in the information and print for submittal. Or print all information in a legible manner. Provide all requested information to aid COCM in keeping up-to-date records. Only one applicant per membership form. Jurisdictions with multiple members may submit additional membership applications with one check (please submit together). Thank you.

Applicant Name: RON SABIN Act 54# 005221

Municipality: CASCADE TWP

Membership Type (see bottom of page): MUNICIPALE Phone: 616-949-3765

Address: 2865 THORNHILLS ICC Member? Yes -  No -

City: GRAND RAPIDS State: MI Zip code: 49546

Email: ronsabin@cascadetwp.com

Inspector Registration Type: Check boxes applicable to your registrations  BO  BI  PR  EI  MI  PI

### 2018 COCM Membership Fees

Fee Type	Fee Amount
2018 COCM Membership fee (required to participate in COCM Conferences)	<del>\$40.00</del>
Fees must be submitted with this registration form	Total Enclosed <del>\$40</del>

Please mail application and check made payable to:

**COCM**  
**P.O. Box 6433**  
**Plymouth, MI 48170**

For more information on COCM

Phone: 810-404-7645

Email: [cocm1@yahoo.com](mailto:cocm1@yahoo.com)

or

[www.cocm.org](http://www.cocm.org)

*See cont. reg. form*

### Membership Types

Municipal shall be restricted to individuals that are residents of Michigan and code officials who are registered pursuant to Public Act 54 of 1986.

Associate shall be restricted to individuals interested in the objectives of the organization and are involved in the construction industry.

Honorary shall be restricted to individuals who have retired from enforcing codes or who have rendered unusual service in the promotion of the objectives of this organization. Must submit to COCM, a letter (see COCM website for Honorary Status Form) requesting Honorary Membership status, and be approved by the membership at the Annual Fall Conference to qualify as an Honorary Member. Once approved, Honorary status is ongoing and re-approval is not required).

For COCM record use only

Date received:	Payment type: <input type="checkbox"/> Cash <input type="checkbox"/> Check #	Amount received for: <input type="checkbox"/> Membership only <input type="checkbox"/> Membership and conference
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**Cascade Charter Township  
Seminar/Conference Attendance Request Form**

This form must be filled out if the employee is requesting Township payment or reimbursement for the employee's attendance to a seminar or conference.

Conditions:

1. Cascade Charter Township will reimburse employees for approved registration for work related seminars and conferences. Individual seminars and conferences must be related to the employee's current job duties or a foreseeable-future position in the organization in order to be eligible for educational assistance.
2. Some seminars/conferences that an employee may attend may be unrelated to their particular job or government in general, and are therefore not covered by this assistance policy.
3. Any request that requires an overnight stay or expenditure over \$200 requires Township Board approval before the seminar/conference is attended.
4. Under extenuating circumstances, the Township Manager may approve an overnight stay or expenditure over \$200 for a conference or seminar prior to Township Board approval. The request must be made before attendance to a seminar/conference. The Township Board will be informed of request at their next scheduled meeting.

*This form must be completed by the employee and approved by the Township Manager and/or Township Board before the seminar/conference is attended.*

Name:     Ron Sabin    

Application Date:     2-26-18    

Location of Seminar/Conference     Bay City    

Name of Proposed Seminar/Conference:     2018 Cocom Spring Conference    

Description of Seminar/Conference: (may also be attached)     Building Inspector Conference    

(over)

How will the Seminar/Conference benefit the employee and the township? \_\_\_\_\_

Continuing Education

Cost of the Seminar/Conference: (Registration) \$ 200-

(Lodging) \$ 250- (Travel) \$ 180-

Account #: 249-371-724-000

Your Signature: [Signature]

Approvals:

Department Head: [Signature] Date: 2.26.18

Township Manager: \_\_\_\_\_ Date: \_\_\_\_\_

Clerk's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(Showing Township Board approval)

Original to personnel file

1 copy to applicant

1 copy to Accounting



# COCM 2018 SPRING CONFERENCE

May 14 - 16, 2018

## CONFERENCE REGISTRATION FORM

Fillable PDF form, simply enter all information prior to printing. Incomplete forms will not be processed. One form per person. Multiple forms may be submitted with one check. COCM is not able to accept credit cards at this time. Payment to be cash or check.

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Additional Conference fees will apply for late registrations (see registration information below)

Name: <b>BILL BENOIT</b>		Jurisdiction representing: <b>CASCADE TOWNSHIP</b>	
Mailing address: <b>2865 T/HORN HILLS</b>	City: <b>GRAND RAPIDS</b>	State: <b>MI</b>	Zip code: <b>49546</b>
Telephone number: <b>616-450-3466</b>	Email Address: <b>B.BENOIT@CASCADETWP.COM</b>		ICC Member? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			Public Act 54 #: <b>2436</b>

Act 54 Reg. Type (check all applicable)

<input type="checkbox"/> BO	<input checked="" type="checkbox"/> BI	<input checked="" type="checkbox"/> PR	<input type="checkbox"/> ELEC	<input type="checkbox"/> MECH	<input type="checkbox"/> PLUMB	<input type="checkbox"/> FIRE	<input type="checkbox"/> OTHER
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**CONFERENCE ATTENDANCE:** Please check the appropriate boxes below. Your conference registration, the membership form (if not submitted yet) and payment must be received by April 13, 2018 to take advantage of the Early Registration Discount!

<input checked="" type="checkbox"/> FULL Conference: Early Registration = \$160.00 (all or multiple days) if submitted before April 24, 2018 <input type="checkbox"/> FULL Conference: Late Registration = \$185.00 if received after April 24, 2018	Enter Conference fee here.....
<input type="checkbox"/> SINGLE Day Rate (For Single Day registration only, please check the <u>day</u> you will be attending below) <u>Early Registration = \$85.00 (single day rate) \$110.00 (single day rate) if received after April 24, 2018</u> <input type="checkbox"/> Monday May 14 <input type="checkbox"/> Tuesday May 15 <input type="checkbox"/> Wednesday May 16	\$ 160.00
<b>2018 COCM MEMBERSHIP:</b> Membership Dues are \$40 per member. Membership is required to participate in the conference. Membership applications can be found at the COCM website.  <u>If have not submitted 2018 membership dues yet, a completed membership form and the \$40 DUES payment must be submitted with your conference registration and fees.</u> Check the COCM website for the current list of 2018 paid members.	Enter Membership fee (if applicable) here
Conference fee + Membership Dues (if not yet a member) = TOTAL AMOUNT .....	\$ 40.00
	\$ 200.00

<p>Please make check payable to COCM and mail with registration form to:</p> <p><b>COCM</b>  <b>PO Box 6433</b>  <b>Plymouth, MI 48170</b></p>	<p><b>COCM CONTACT INFORMATION</b></p> <p><a href="http://www.cocm.org">www.cocm.org</a>  <a href="mailto:cocm1@yahoo.com">cocm1@yahoo.com</a>  <b>810-404-7645</b></p>
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*Please do not send to one of the Board Officers as doing so will only delay your registration.*



# Code Officials Conference of Michigan

## 2018 Membership Application

January 1, 2018 – December 31, 2018

This form is a PDF fillable form. Download, fill in the information and print for submittal. Or print all information in a legible manner. Provide all requested information to aid COCM in keeping up-to-date records. Only one applicant per membership form. Jurisdictions with multiple members may submit additional membership applications with one check (please submit together). Thank you.

Applicant Name: BILL BENNETT Act 54# 2436

Municipality: CASCADE TOWNSHIP

Membership Type (see bottom of page): MUNICIPAL Phone: 616-450-3466

Address: 2865 THORN HILLS ICC Member? Yes -  No -

City: GRAND RAPIDS State: MI Zip code: 49546

Email: B BENNETT @ CASCADE TWP. COM

Inspector Registration Type: Check boxes applicable to your registrations  BO  BI  PR  EI  MI  PI

### 2018 COCM Membership Fees

Fee Type	Fee Amount
2018 COCM Membership fee (required to participate in COCM Conferences)	<del>\$40.00</del>
Fees must be submitted with this registration form	Total Enclosed

Please mail application and check made payable to:

**COCM**  
**P.O. Box 6433**  
**Plymouth, MI 48170**

SEE CONFERENCE  
REGISTRATION  
FORM

For more information on COCM

**Phone: 810-404-7645**  
**Email: [cocm1@yahoo.com](mailto:cocm1@yahoo.com)**  
or  
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*This form must be completed by the employee and approved by the Township Manager and/or Township Board before the seminar/conference is attended.*

Name: Bill Bevier

Application Date: 2-26-2018

Location of Seminar/Conference BAY CITY, MI

Name of Proposed Seminar/Conference: COCM

Description of Seminar/Conference: (may also be attached) \_\_\_\_\_

BI-ANNUAL CONFERENCE

(over)


How will the Seminar/Conference benefit the employee and the township? \_\_\_\_\_

REQUIRED TRAINING

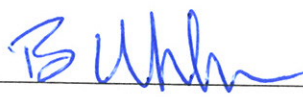
Cost of the Seminar/Conference: (Registration) \$ 160.00

(Lodging) \$ 250.00 (Travel) \$ 150.00

Account #: 249-371-724-000

Your Signature: 

Approvals:

Department Head:  Date: 2.26.18

Township Manager: \_\_\_\_\_ Date: \_\_\_\_\_

Clerk's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(Showing Township Board approval)

Original to personnel file

1 copy to applicant

1 copy to Accounting

03/06/2018 CHECK DISBURSEMENT REPORT FOR CASCADE CHARTER TOWNSHIP  
CHECK DATE FROM 02/01/2018 - 02/28/2018  
FEBRUARY 2018 PAYABLES, PAYROLL, AND TRANSFERS

Check Date	Bank	Check #	Invoice	Payee	Description	Account	Dept	Amount
<b>FUND 101 - GENERAL FUND</b>								
02/08/2018	GENS	67073*#	000696754057	MUTUAL OF OMAHA INSURANCE	DEPENDENT LIFE W/H GF JAN	231-220	000	15.60
02/08/2018	GENS	67073	000696754057	MUTUAL OF OMAHA INSURANCE	DEPENDENT LIFE W/H FIRE JAN	231-220	000	19.50
02/08/2018	GENS	67073	000696754057	MUTUAL OF OMAHA INSURANCE	DEPENDENT LIFE W/H BLDG JAN	231-220	000	3.90
02/08/2018	GENS	67073	000696754057	MUTUAL OF OMAHA INSURANCE	ADDITIONAL LIFE W/H GF JAN	231-221	000	203.10
02/08/2018	GENS	67073	000696754057	MUTUAL OF OMAHA INSURANCE	ADDITIONAL LIFE W/H FIRE JAN	231-221	000	294.90
02/08/2018	GENS	67073	000696754057	MUTUAL OF OMAHA INSURANCE	ADDITIONAL LIFE W/H BLDG JAN	231-221	000	50.00
02/08/2018	GENS	67073	000696754057	MUTUAL OF OMAHA INSURANCE	ADDITIONAL LIFE W/H VUIFE FIRE JAN	231-221	000	36.00
02/08/2018	GENS	67073	000696754057	MUTUAL OF OMAHA INSURANCE	ADDITIONAL LIFE W/HV LIFE E 2X GENERAL JN	231-221	000	17.00
					CHECK GENS 67073 TOTAL FOR FUND 101:			640.00
					Total for department 000:			640.00
Department: 101 TOWNSHIP BOARD								
02/15/2018	GENS	67143*#	9800896762	VERIZON WIRELESS	TRUSTEE CELL PHONES TABLET	924-100	101	64.13
					Total for department 101:			64.13
Department: 171 SUPERVISOR/MANAGER								
02/08/2018	GENS	67033	MILG 1/8-18 & CELL	ROBERT S BEAHAN	SUP/MGR/DEPT MILEAGE BEAHAN 74 MILES	860-000	171	40.33
02/08/2018	GENS	67033	MILG 1/8-18 & CELL	ROBERT S BEAHAN	MANAGER CELL PHONE BEAHAN CELL ALLOW	925-000	171	50.00
					CHECK GENS 67033 TOTAL FOR FUND 101:			90.33
02/08/2018	GENS	67095*#	9800673941	VERIZON WIRELESS	MANAGERS CELL PHONE JAN	925-000	171	63.23
02/15/2018	GENS	67143*#	9800896762	VERIZON WIRELESS	MANAGERS CELL PHONE TABLET	925-000	171	32.07
02/22/2018	GENS	67159*#	MME CONF	FIRST BANKCARD	EDUCATION SWAYZE MME CONF	724-000	171	8.35
02/22/2018	GENS	67159	1092210	FIRST BANKCARD	EDUCATION SWAYZE MME CONF LODGING	724-000	171	264.18
02/22/2018	GENS	67159	MME CONF	FIRST BANKCARD	EDUCATION SWAYZE MEAL	724-000	171	29.91
02/22/2018	GENS	67159	PARKING 1/12/2018	FIRST BANKCARD	SUP/MGR/DEPT SWAYZE PARKING	860-000	171	10.00
02/22/2018	GENS	67159	002624	FIRST BANKCARD	SUP/MGR/DEPT SWAYZE PARKING	860-000	171	10.00
					CHECK GENS 67159 TOTAL FOR FUND 101:			322.44
02/22/2018	GENS	67182	MILG 1/1-1/31/18	SWAYZE, BENJAMIN	EDUCATION SWAYZE MME/ANN ARBOR	724-000	171	143.88
02/22/2018	GENS	67182	MILG 12/1-12/31/17	SWAYZE, BENJAMIN	SUP/MGR/DEPT MILEAGE SWAYZE 363 MILES	860-000	171	194.21
02/22/2018	GENS	67182	MILG 1/1-1/31/18	SWAYZE, BENJAMIN	SUP/MGR/DEPT MILEAGE SWAYZE 243 MILES	860-000	171	132.44
					CHECK GENS 67182 TOTAL FOR FUND 101:			470.53
					Total for department 171:			978.60
Department: 215 CLERK								
02/08/2018	GENS	67080	CELL ALLOW JAN	SLATER, SUE	CLERK CELL PHONE SLATER CELL ALLOW	925-000	215	50.00
02/15/2018	GENS	67143*#	9800896762	VERIZON WIRELESS	CLERK CELL PHONE TABLET	925-000	215	32.07
					Total for department 215:			82.07
Department: 253 TREASURER								
02/15/2018	GENS	67143*#	9800896762	VERIZON WIRELESS	TREASURER'S CELL PHONES TABLET	924-100	253	16.03
					Total for department 253:			16.03
Department: 257 ASSESSING								
02/08/2018	GENS	67059	MILG 1/3-29	HOLZHEI, SHAWN	ASSESSING MILEAGE HOLZHEI 82 MILES	860-000	257	44.69
02/08/2018	GENS	67068	MILG 1/2-1/30	ROGER MC CARTY	EDUCATION MCCARTY,R MMAAO CONF	724-000	257	59.95
02/08/2018	GENS	67068	MILG 1/2-1/30	ROGER MC CARTY	ASSESSING MILEAGE MCCARTY,R 123 MILES	860-000	257	67.04
					CHECK GENS 67068 TOTAL FOR FUND 101:			126.99
02/08/2018	GENS	67082	GENTER,JENNIFER 2018	STATE OF MICHIGAN	ED GENTER-MASTER ASSESS OFFICER APPRAISL	724-000	257	250.00

03/06/2018 CHECK DISBURSEMENT REPORT FOR CASCADE CHARTER TOWNSHIP  
CHECK DATE FROM 02/01/2018 - 02/28/2018  
FEBRUARY 2018 PAYABLES, PAYROLL, AND TRANSFERS

Check Date	Bank	Check #	Invoice	Payee	Description	Account	Dept	Amount	
02/08/2018	GENS	67083	HOLZHEI,SHAW	STATE OF MICHIGAN	MAAO online class - Shawn Holzhei	724-000	257	250.00	
02/15/2018	GENS	67104#	116357	BS&A SOFTWARE	ASSESSING ANNUAL SUPPORT 2018	939-000	257	1,994.00	
02/15/2018	GENS	67143*#	9800896762	VERIZON WIRELESS	CELL PHONES/DATA TABLET	924-100	257	16.03	
Department: 262 ELECTIONS								Total for department 257:	2,681.71
02/08/2018	GENS	67052	38267	ELECTION SOURCE	DOUBLE SIDED A FRAME SIGN	756-000	262	1,250.00	
02/08/2018	GENS	67052	38267	ELECTION SOURCE	ELECTION SUPPLIES SHIPPING INV 38267	756-000	262	93.80	
CHECK GENS 67052 TOTAL FOR FUND 101:								1,343.80	
Department: 265 BUILDING AND GROUNDS								Total for department 262:	1,343.80
02/08/2018	GENS	67031	2020515	B & B TRUCK EQUIPMENT INC	Cab guard and roller kit	863-000	265	859.44	
02/08/2018	GENS	67040	02-320537	CARLETON EQUIPMENT	Skid loader key and harness	863-000	265	245.78	
02/08/2018	GENS	67045*#	301-02736 JAN	CINTAS CORP #301	COMPLEX MAINTENANCE WAS BLDG	931-000	265	153.12	
02/08/2018	GENS	67045	301-02736 JAN	CINTAS CORP #301	COMPLEX MAINTENANCE S.C.	931-000	265	25.64	
02/08/2018	GENS	67045	301-02736 JAN	CINTAS CORP #301	COMPLEX MAINTENANCE JAN	931-000	265	170.68	
02/08/2018	GENS	67045	301-02736 JAN	CINTAS CORP #301	COMPLEX MAINTENANCE B& JAN	931-000	265	49.77	
CHECK GENS 67045 TOTAL FOR FUND 101:								399.21	
02/08/2018	GENS	67048*#	8529112730047816 F18	COMCAST	BLDG AND GROUNDS CELL PHONES CABLE INTER	924-100	265	263.40	
02/08/2018	GENS	67051*#	910020652699 1/2018	DTE ENERGY	COMPLEX HEATING B&G JAN	923-000	265	278.54	
02/08/2018	GENS	67051	910020652434 1/20158	DTE ENERGY	COMPLEX HEATING JAN	923-000	265	1,652.31	
CHECK GENS 67051 TOTAL FOR FUND 101:								1,930.85	
02/08/2018	GENS	67060	43171	HOOGERHYDE SAFE & LOCK, INC	Double door assembly	931-000	265	562.00	
02/08/2018	GENS	67069	SV010054	MIDSTATE SECURITY CO.	CARD ACCESS REPAIR	931-000	265	598.97	
02/08/2018	GENS	67071*#	485954	MINER SUPPLY COMPANY	CLEANING SUPPLIES/PAPER PRODUCTS COMPLEX	931-000	265	325.74	
02/08/2018	GENS	67077*#	0240-006914418	REPUBLIC SERVICES	COMPLEX MAINTENANCE B&G RECYCLE FEB	931-000	265	80.85	
02/08/2018	GENS	67077	0240-006914418	REPUBLIC SERVICES	COMPLEX MAINTENANCE RECYCLE FEB	931-000	265	630.85	
CHECK GENS 67077 TOTAL FOR FUND 101:								711.70	
02/08/2018	GENS	67095*#	9800673941	VERIZON WIRELESS	BLDG AND GROUNDS CELL PHONES JAN	924-100	265	133.77	
02/08/2018	GENS	67098	150405	WONDERLAND TIRE COMPANY	Tires for FORD F250	863-000	265	662.07	
02/08/2018	GENS	67098	150251	WONDERLAND TIRE COMPANY	TIRES FOR THREE TRUCKS	863-000	265	754.99	
02/08/2018	GENS	67098	150252	WONDERLAND TIRE COMPANY	tires for three trucks	863-000	265	758.99	
02/08/2018	GENS	67098	150250	WONDERLAND TIRE COMPANY	tires for three trucks	863-000	265	758.99	
CHECK GENS 67098 TOTAL FOR FUND 101:								2,935.04	
02/09/2018	GENS	4397(A)*#	JAN 2018	CONSUMERS ENERGY	100000285161 2865 THORNHILLS AVE	921-000	265	2,494.91	
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100012052419 6569 THORNBROOK ST SE	921-000	265	23.41	
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100012762959 2990 BUTTRICK AVE SE	921-000	265	331.02	
CHECK GENS 4397(A) TOTAL FOR FUND 101:								2,849.34	
02/09/2018	GENS	4401(A)*#	89325	ENVIRO-CLEAN	CLEANING TOWNSHIP HALL JAN	802-200	265	462.00	

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02/09/2018	GENS	4406(A)*#	201237	KINGSLAND'S ACE HARDWARE	BLDG & GRDS VEHICLE MAINTENANCE ADHESIVE	863-000	265	6.99
02/09/2018	GENS	4406(A)	201159	KINGSLAND'S ACE HARDWARE	BLDG & GRDS VEHICLE MAINTENANCE WSHERS	863-000	265	1.89
02/09/2018	GENS	4406(A)	201204	KINGSLAND'S ACE HARDWARE	COMPLEX MAINTENANCE MIRROR HANGER	931-000	265	12.59
02/09/2018	GENS	4406(A)	201215	KINGSLAND'S ACE HARDWARE	COMPLEX MAINTENANCE SUPPLIES	931-000	265	32.04
02/09/2018	GENS	4406(A)	201218	KINGSLAND'S ACE HARDWARE	COMPLEX MAINTENANCE EXTENSION CORDS	931-000	265	17.98
02/09/2018	GENS	4406(A)	201219	KINGSLAND'S ACE HARDWARE	COMPLEX MAINTENANCE PERCUSSION DRILL	931-000	265	3.50
02/09/2018	GENS	4406(A)	201224	KINGSLAND'S ACE HARDWARE	COMPLEX MAINTENANCE ADHESIVE	931-000	265	13.49
02/09/2018	GENS	4406(A)	201254	KINGSLAND'S ACE HARDWARE	COMPLEX MAINTENANCE REFLECTORS	931-000	265	17.98
02/09/2018	GENS	4406(A)	201368	KINGSLAND'S ACE HARDWARE	COMPLEX MAINTENANCE SUPPLIES	931-000	265	13.68
02/09/2018	GENS	4406(A)	201372	KINGSLAND'S ACE HARDWARE	COMPLEX MAINTENANCE WALLPLATE	931-000	265	1.16
02/09/2018	GENS	4406(A)	201323	KINGSLAND'S ACE HARDWARE	COMPLEX MAINTENANCE LED A19	931-000	265	10.79
				CHECK GENS 4406(A) TOTAL FOR FUND 101:				132.09
02/09/2018	GENS	4409(A)*#	211520	QUALITY AIR	MONTHLY MAINTENANCE- B&G JAN	931-000	265	50.97
02/09/2018	GENS	4409(A)	211520	QUALITY AIR	MONTHLY MAINTENANCE- COMPLEX JAN	931-000	265	157.54
02/09/2018	GENS	4409(A)	211520	QUALITY AIR	MONTHLY MAINTENANCE- BUILDING JAN	931-000	265	78.78
02/09/2018	GENS	4409(A)	211374	QUALITY AIR	Increased temp in building dept	931-000	265	341.50
02/09/2018	GENS	4409(A)	212569	QUALITY AIR	COMPLEX MAINTENANCE WAS BLDG	931-000	265	78.78
02/09/2018	GENS	4409(A)	212569	QUALITY AIR	MONTHLY MAINTENANCE- COMPLEX FEB	931-000	265	157.54
02/09/2018	GENS	4409(A)	212569	QUALITY AIR	MONTHLY MAINTENANCE- B&G	931-000	265	50.97
				CHECK GENS 4409(A) TOTAL FOR FUND 101:				916.08
02/09/2018	GENS	4416(A)	00322361	THE LIGHT BULB COMPANY	COMPLEX MAINTENANCE 120/277V ELECTRONICS	931-000	265	119.85
02/09/2018	GENS	4422(A)*#	52990776	WEX BANK	BLDG & GRDS VEHICLE MAINT CITGO JAN	863-000	265	70.09
02/09/2018	GENS	4422(A)	52990776	WEX BANK	BLDG & GRDS VEHICLE FUEL JAN	864-000	265	1,441.88
				CHECK GENS 4422(A) TOTAL FOR FUND 101:				1,511.97
02/15/2018	GENS	67102*#	2020271	B&B HEATING & COOLING	BLDG & GRDS VEHICLE MAINTENANCE SPREADER	863-000	265	** VOIDED **
Void Reason: WRONG VENDOR S/B B&B TRUCK EQUIPMENT								
02/15/2018	GENS	67114*#	WS2042252 OCT-JAN	GRAND RAPIDS CITY TREASURER	COMPLEX WATER-SEWER OCT-JAN	927-000	265	763.55
02/15/2018	GENS	67143*#	9800896762	VERIZON WIRELESS	BLDG AND GROUNDS CELL PHONES TABLET	924-100	265	16.03
02/19/2018	GENS	67144*#	2020271	B & B TRUCK EQUIPMENT INC	BLDG & GRDS VEH MAINT TAILGATE SPREADER	863-000	265	910.36
02/22/2018	GENS	67150	02-322693	CARLETON EQUIPMENT	BLDG & GRDS VEHICLE MAINT HOSE ASSEMBLY	863-000	265	186.69
02/22/2018	GENS	67151*#	50756	CASCADE AUTOMOTIVE SERVICE	F250 ignition switch	863-000	265	505.41
02/22/2018	GENS	67162*#	1023410	THE HOME DEPOT CREDIT SERVICES	COMPLEX MAINT PAINT SUPPLIES	931-000	265	82.65
02/22/2018	GENS	67162	6031514	THE HOME DEPOT CREDIT SERVICES	COMPLEX MAINT HANGERS	931-000	265	36.29
02/22/2018	GENS	67162	3592635	THE HOME DEPOT CREDIT SERVICES	COMPLEX MAINTENANCE 120V HARDWARE	931-000	265	89.00
				CHECK GENS 67162 TOTAL FOR FUND 101:				207.94
02/22/2018	GENS	67179	01864-176728	SAFELITE FULFILLMENT INC	2002 Ford F250 Passenger side rear	863-000	265	247.90
02/23/2018	GENS	4445(A)	4324-450530	NAPA AUTO PARTS	Brake pads and rotors 2014 F250 truck	863-000	265	259.97
02/23/2018	GENS	4445(A)	4324-442252	NAPA AUTO PARTS	BLDG & GRDS VEHICLE MAINT ICON BLADES	863-000	265	149.94
02/23/2018	GENS	4445(A)	4324-451139	NAPA AUTO PARTS	BLDG & GRDS VEHICLE MAINT CR INV 450530	863-000	265	(90.99)
				CHECK GENS 4445(A) TOTAL FOR FUND 101:				309.92
02/23/2018	GENS	4446(A)	201385	KINGSLAND'S ACE HARDWARE	COMPLEX MAINT PAINT ROLLERS	931-000	265	9.52
				Total for department 265:				18,114.55

Department: 276 CEMETERY

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02/08/2018	GENS	67032	37309328-0	BARTLETT TREE EXPERTS	Remove dead pine tree cemetery	932-000	276	2,296.00
02/09/2018	GENS	4397(A)*#	JAN 2018	CONSUMERS ENERGY	100012957591 7200 30TH ST SE	921-000	276	96.42
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100012548051 5601 WHITNEYVILLE AVE	921-000	276	23.41
					CHECK GENS 4397(A) TOTAL FOR FUND 101:			119.83
02/09/2018	GENS	4406(A)*#	201238	KINGSLAND'S ACE HARDWARE	CEMETERY MAINT ADHESIVE	932-000	276	9.32
					Total for department 276:			2,425.15
Department: 295 ADMINISTRATIVE								
02/08/2018	GENS	67027	0000272214	290 SIGN SYSTEMS	OTHER EXPENSES S-INSERTS	787-000	295	27.18
02/08/2018	GENS	67062*#	910983	HUB INTERNATIONAL MIDWEST EAST	INSURANCE/CONTRACT SVCS 2018 COMMERCIAL	810-000	295	15,225.00
02/08/2018	GENS	67076	999310167001	OFFICE DEPOT	OFFICE SUPPLIES COMPUTER PAPER	727-000	295	129.95
02/08/2018	GENS	67084*#	539433-0	SUPPLYGEEKS.BIZ	GENERAL FUND OFFICE SUPPLIES	727-000	295	124.81
02/08/2018	GENS	67084	539401-0	SUPPLYGEEKS.BIZ	GENERAL FUND OFFICE SUPPLIES	727-000	295	168.10
					CHECK GENS 67084 TOTAL FOR FUND 101:			292.91
02/09/2018	GENS	4402(A)	525782	FIRST CHOICE COFFEE SERVICE	COFFEE SERVICE FOR TWP. HALL	787-000	295	82.45
02/09/2018	GENS	4403(A)*#	372999	FISHBECK THOMPSON CARR & HUBER	ENGINEERING COSTS SITE PLAN JAN	821-000	295	1,882.50
02/09/2018	GENS	4403(A)	372353	FISHBECK THOMPSON CARR & HUBER	ENGINEERING COSTS BLDG & GRD BLDG PLAN	821-000	295	1,307.70
02/09/2018	GENS	4403(A)	372353	FISHBECK THOMPSON CARR & HUBER	ENGINEERING COSTS VOTER PRECINT	821-000	295	115.43
02/09/2018	GENS	4403(A)	372353	FISHBECK THOMPSON CARR & HUBER	ENGINEERING COSTS ZONING MAPS	821-000	295	388.28
					CHECK GENS 4403(A) TOTAL FOR FUND 101:			3,693.91
02/09/2018	GENS	4404(A)	K-4431	KENT COUNTY TREASURER - TAX	PROPERTY TAX REFUNDS 7/2017 BOR	950-000	295	852.91
02/09/2018	GENS	4406(A)*#	201216	KINGSLAND'S ACE HARDWARE	OFFICE SUPPLIES EXTENSION CORDS	727-000	295	3.23
02/09/2018	GENS	4406(A)	201207	KINGSLAND'S ACE HARDWARE	OFFICE SUPPLIES	727-000	295	13.03
02/09/2018	GENS	4406(A)	201197	KINGSLAND'S ACE HARDWARE	OFFICE SUPPLIES CABLE TIES	727-000	295	7.45
02/09/2018	GENS	4406(A)	201189	KINGSLAND'S ACE HARDWARE	OFFICE SUPPLIES PAINT TRAY KIT	727-000	295	19.79
					CHECK GENS 4406(A) TOTAL FOR FUND 101:			43.50
02/09/2018	GENS	4417(A)	2018 PLEDGE	THE RIGHT PLACE INC	RIGHT PLACE PROGRAM CONTRIBUTIONS 2018	956-000	295	7,500.00
02/15/2018	GENS	67104#	116357	BS&A SOFTWARE	FIXED ASSETS ANNUAL SUPPORT 2018	939-000	295	1,134.00
02/15/2018	GENS	67109	2018 CONTRIB /2017 P	COMMUNITY MEDIA CENTER	CABLE EQUIPMENT GRANTS 2017 PEG FEE	951-000	295	35,000.00
02/15/2018	GENS	67109	2018 CONTRIB /2017 P	COMMUNITY MEDIA CENTER	COMMUNITY MEDIA CENTER 2018 CONTRIBUTION	955-000	295	5,000.00
					CHECK GENS 67109 TOTAL FOR FUND 101:			40,000.00
02/15/2018	GENS	67112	PP WORK USE 2018	FAST, STEPHANIE	OTHER EXP FAST PP WORK USE REIMB	787-000	295	300.00
02/15/2018	GENS	67115	1692931-0	INTEGRITY BUSINESS SOLUTIONS, LLC	OFFICE SUPPLIES TONER	727-000	295	202.99
02/15/2018	GENS	67126	52885	MUNIWEB	WEBSITE HOSTING	815-000	295	228.00
02/15/2018	GENS	67126	52885	MUNIWEB	MAINTENANCE	815-000	295	95.00
					CHECK GENS 67126 TOTAL FOR FUND 101:			323.00

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02/15/2018	GENS	67130*#	540488-0	SUPPLYGEEKS.BIZ	GENERAL FUND OFFICE SUPPLIES	727-000	295	8.99
02/15/2018	GENS	67130	540172-0	SUPPLYGEEKS.BIZ	GENERAL FUND OFFICE SUPPLIES	727-000	295	448.04
					CHECK GENS 67130 TOTAL FOR FUND 101:			457.03
02/15/2018	GENS	67131	OFFIE SUPPLIES REMB	SWAYZE, BENJAMIN	OTHER EXPENSES ADMIN OFFICE SUPPLIES	787-000	295	198.23
02/15/2018	GENS	67142	1025453	VARNUM	LEGAL FEES GENERAL JAN	826-000	295	1,710.00
02/15/2018	GENS	67142	1025454	VARNUM	LEGAL FEES GENERAL JAN	826-000	295	304.00
					CHECK GENS 67142 TOTAL FOR FUND 101:			2,014.00
02/15/2018	GENS	67143*#	9800896762	VERIZON WIRELESS	CELL PHONES/TABLET	924-100	295	16.03
02/16/2018	GENS	4425(A)	04290141	EASTERN FLORAL & GIFTS	OTHER EXPENSES PLANTScape FEB	787-000	295	54.00
02/16/2018	GENS	4426(A)*#	531237	FIRST CHOICE COFFEE SERVICE	COFFEE SERVICE FOR TWP. HALL 2/07	787-000	295	125.10
02/22/2018	GENS	67158	FEB 2018	FIRST BANKCARD	SPECIAL PROJECTS FACE BOOK	967-000	295	46.58
02/22/2018	GENS	67159*#	101 BEST & BRIGHTEST	FIRST BANKCARD	OTH EXP CRAIN/SOB 100 BEST & BRIGHTEST	787-000	295	200.00
02/22/2018	GENS	67159	MKVGMTTH6D	FIRST BANKCARD	OTHER EXP ICLoud STORAGE	787-000	295	0.99
					CHECK GENS 67159 TOTAL FOR FUND 101:			200.99
02/22/2018	GENS	67160	OVERLIMIT & INB	FIRST BANKARD	OTHER EXP OVERLIMIT & FEES	787-000	295	132.38
02/22/2018	GENS	67177	2018 MICH TRAILS	ROCKFORD ADVERTISING	QUARTER PAGE ADVERTISEMENT	787-000	295	775.00
02/22/2018	GENS	67180	FLORAL WREATHS	SLOTSEMA, BRENDA	OTHER EXPENSES FLORA WREATHS	787-000	295	77.32
02/23/2018	GENS	4442(A)*#	372993	FISHBECK THOMPSON CARR & HUBER	OTHER EXPENSES ZONE MAPS	787-000	295	157.41
02/23/2018	GENS	4444(A)	95047-1	FUNNY BUSINESS AGENCY INC	FOURTH OF JULY EVENT 95047	881-000	295	21,187.50
					Total for department 295:			95,249.37
Department: 445 DRAIN								
02/08/2018	GENS	67081	761-10335882	STATE OF MICHIGAN	ILLICIT DISCHARGE PLAN- STORM WATER PERM	822-000	445	500.00
02/09/2018	GENS	4403(A)*#	372540	FISHBECK THOMPSON CARR & HUBER	DRAIN ENGINEERING CASC/THORN HILLS DRAIN	821-000	445	198.00
02/15/2018	GENS	67139	2018-002	KENT COUNTY DRAIN COMMISSION	DRAIN MAINTENANCE DEC FOREMOST	816-000	445	283.83
02/16/2018	GENS	4427(A)*#	372534	FISHBECK THOMPSON CARR & HUBER	STORM WATER GRANT MATCH/KCDC SAW	818-000	445	609.50
02/16/2018	GENS	4427(A)	372534	FISHBECK THOMPSON CARR & HUBER	STORM WATER/SAW GRANT CONTR SERVICE SAW	818-010	445	5,485.50
					CHECK GENS 4427(A) TOTAL FOR FUND 101:			6,095.00
					Total for department 445:			7,076.83
Department: 447 YARD WASTE REMOVAL								
02/15/2018	GENS	67101	2018-4	ADA TOWNSHIP	SPRING/FALL CLEAN-UP 2017	820-000	447	9,560.56
					Total for department 447:			9,560.56
Department: 448 STREET LIGHTS								
02/09/2018	GENS	4397(A)*#	JAN 2018	CONSUMERS ENERGY	100011965082 2870 JACK SMITH AVE SE	926-000	448	150.86

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02/15/2018	GENS	67108	100000373306 1/18	CONSUMERS ENERGY	STREETLIGHTING JAN	926-000	448	9,610.57
02/15/2018	GENS	67117	410784	KENT COUNTY ROAD COMMISSION	TRAFFIC SIGNALS JAN	927-100	448	10.49
Department: 652 TRANSPORTATION								9,771.92
02/08/2018	GENS	67061	080920	HOPE NETWORK	TRANSPORTATION SERVICES JAN	859-000	652	4,108.50
02/22/2018	GENS	67165*#	090653	INTERURBAN TRANSIT PARTNERSHIP	BUS SERVICE 33RD & 36TH FEB	861-000	652	2,210.33
02/22/2018	GENS	67165	090654	INTERURBAN TRANSIT PARTNERSHIP	BUS SERVICE 28TH ST FEB	861-100	652	21,993.48
CHECK GENS 67165 TOTAL FOR FUND 101:								24,203.81
Department: 721 PLANNING								28,312.31
02/08/2018	GENS	67030	065108-1817	AMERICAN PLANNING ASSOCIATION	COMM DEV MEMBER AND DUES ZONING PRACTIC	723-000	721	95.00
02/08/2018	GENS	67053	MILG 1/2-1/30/2018	FAST, STEPHANIE	EDUCATION FAST CONF GRAYLING	724-000	721	174.40
02/08/2018	GENS	67053	MILG 1/2-1/30/2018	FAST, STEPHANIE	PLANNING MILEAGE- FAST 161 REG MILES	860-000	721	87.75
CHECK GENS 67053 TOTAL FOR FUND 101:								262.15
02/08/2018	GENS	67095*#	9800673941	VERIZON WIRELESS	COMM DEV CELL/DATA CELL JAN	925-000	721	103.00
02/09/2018	GENS	4411(A)	5263306	SNELLING STAFFING SERVICES	PLANNING & ZONING MINUTES 1/21	787-000	721	120.90
02/15/2018	GENS	67118	28515	MICHIGAN ASSOCIATION OF	EDUCATION JOHNSON,PHILLIP PLAN & ZONE WS	724-000	721	100.00
02/15/2018	GENS	67124*#	JAN 2018`	MLIVE MEDIA GROUP	PRINTING & PUBLISHING JAN ADV	900-000	721	628.80
02/15/2018	GENS	67143*#	9800896762	VERIZON WIRELESS	COMM DEV CELL/TABLET	925-000	721	32.07
02/22/2018	GENS	67159*#	118542	FIRST BANKCARD	EDUCATION PETERSON PLAN CONF LODGING	724-000	721	161.98
02/22/2018	GENS	67159	6800	FIRST BANKCARD	COMM DEV EXPENSE ACCOUNT PLAN MTG	862-500	721	4.44
CHECK GENS 67159 TOTAL FOR FUND 101:								166.42
Department: 756 PARKS								1,508.34
02/08/2018	GENS	67077*#	0240-006914418	REPUBLIC SERVICES	PARK MAINTENANCE RECYCLE FEB	935-000	756	150.04
02/09/2018	GENS	4397(A)*#	JAN 2018	CONSUMERS ENERGY	100012592265 2900 THORNAPPLE RIV DR	921-000	756	422.95
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100014570673 3804 THORNAPPLE RIV DR	921-000	756	114.84
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100014570889 3820 THORNAPPLE RIV DR	921-000	756	60.45
CHECK GENS 4397(A) TOTAL FOR FUND 101:								598.24
02/09/2018	GENS	4399(A)	37090731	CRYSTAL FLASH ENERGY	PROPANE	935-000	756	483.72
02/09/2018	GENS	4399(A)	31179363	CRYSTAL FLASH ENERGY	PROPANE 1/03	935-000	756	753.57
CHECK GENS 4399(A) TOTAL FOR FUND 101:								1,237.29
02/09/2018	GENS	4405(A)	117677	KERKSTRA PORTABLE RESTROOM SERV	PARK MAINT PORTABLE BATHROOM JAN	935-000	756	110.00
02/09/2018	GENS	4406(A)*#	201280	KINGSLAND'S ACE HARDWARE	PARK OPERATING SUPPLIES LED DAY BULB	756-000	756	21.58
02/09/2018	GENS	4406(A)	201281	KINGSLAND'S ACE HARDWARE	PARK OPERATING SUPPLIES LED DAY BULB	756-000	756	21.58
CHECK GENS 4406(A) TOTAL FOR FUND 101:								43.16
02/09/2018	GENS	4409(A)*#	211520	QUALITY AIR	MONTHLY MAINTENANCE- PARKS JAN	935-000	756	13.90

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02/09/2018	GENS	4409(A)	212569	QUALITY AIR	MONTHLY MAINTENANCE- PARKS	935-000	756	13.90
02/09/2018	GENS	4409(A)	OVERPYMT 4383	QUALITY AIR	PARK MAINTENANCE OVERPYMT ACH 4383	935-000	756	(889.00)
					CHECK GENS 4409(A) TOTAL FOR FUND 101:			(861.20)
02/15/2018	GENS	67103	1316	BEHRENS LIMITED LTD	PARK MAINTENANCE UNIVESAL CLEANER	935-000	756	132.00
02/15/2018	GENS	67116	EH013118-3774	KENT COUNTY - HEALTH DEPT	PARK MAINT CASC TWP PARK WATER TEST	935-000	756	36.00
02/22/2018	GENS	67159*#	TYPE II PLAN REVIEW	FIRST BANKCARD	Type II Plan Review Transient	935-000	756	250.00
02/22/2018	GENS	67162*#	8016283	THE HOME DEPOT CREDIT SERVICES	PARK MAINT BLACKTOP PATCH	935-000	756	95.76
					Total for department 756:			1,791.29
Department: 803 HISTORICAL								
02/08/2018	GENS	67051*#	910020652541 1/20185	DTE ENERGY	MUSEUM - HEATING/UTILITY JAN	923-000	803	193.36
02/09/2018	GENS	4397(A)*#	JAN 2018	CONSUMERS ENERGY	100012592398 2839 THORNAPPLE RIV DR	921-000	803	76.79
02/09/2018	GENS	4409(A)*#	211520	QUALITY AIR	MONTHLY MAINTENANCE- MUSEUM JAN	961-000	803	27.81
02/09/2018	GENS	4409(A)	212569	QUALITY AIR	MONTHLY MAINTENANCE- MUSEUM	961-000	803	27.81
					CHECK GENS 4409(A) TOTAL FOR FUND 101:			55.62
					Total for department 803:			325.77
Department: 850 BENEFITS/INSURANCE								
02/08/2018	GENS	67054*	163384458	FIDELITY SECURITY LIFE INS	VISION INSURANCE BENEFITS JAN	718-000	850	151.26
02/08/2018	GENS	67073*#	000696754057	MUTUAL OF OMAHA INSURANCE	LIFE & DIS INSURANCE BENEFITS LIF JAN	720-000	850	166.38
02/08/2018	GENS	67073	000696754057	MUTUAL OF OMAHA INSURANCE	LIFE & DIS INSURANCE BENEFITS ADD JAN	720-000	850	25.30
02/08/2018	GENS	67073	000696754057	MUTUAL OF OMAHA INSURANCE	LIFE & DIS INSURANCE BENEFITS LTD JAN	720-000	850	463.47
					CHECK GENS 67073 TOTAL FOR FUND 101:			655.15
02/15/2018	GENS	67110*	RIS0001762766	DELTA DENTAL	DENTAL INSURANCE BENEFITS MAR	721-000	850	1,717.81
02/15/2018	GENS	67110	RIS0001762766	DELTA DENTAL	MI CLAIMS TAX - DENTAL MAR	721-200	850	10.40
					CHECK GENS 67110 TOTAL FOR FUND 101:			1,728.21
02/22/2018	GENS	16(E)*#	HEALTH INS 3/2018	WEST MICHIGAN HEALTH INSURANCE	HEALTH INSURANCE BENEFITS MARCH	719-000	850	13,092.33
					Total for department 850:			15,626.95
Department: 901 CAPITAL OUTLAY								
02/08/2018	GENS	67064	534308-0	KENTWOOD OFFICE FURNITURE	conference room table & 4 drawer file	974-000	901	759.00
02/15/2018	GENS	67111	DVS123109	DOMINION VOTING SYSTEMS INC	ICP EXTERNAL WIRELESS CELLULR MODEM	970-000	901	2,950.00
02/16/2018	GENS	4427(A)*#	APPL# 4	FISHBECK THOMPSON CARR & HUBER	CAPITAL OUTLAY - LANDIMP CASC HALL RENOV	974-000	901	33,821.26
02/16/2018	GENS	4427(A)	APPL# 5	FISHBECK THOMPSON CARR & HUBER	CAPITAL OUTLAY - LANDIMP CASC EHALL RENO	974-000	901	17,793.50
					CHECK GENS 4427(A) TOTAL FOR FUND 101:			51,614.76
02/22/2018	GENS	67159*#	41010 2/07	FIRST BANKCARD	CAPITAL OUTLAY - FFE COLOR MONITOR	970-000	901	45.57
02/22/2018	GENS	67159	1995	FIRST BANKCARD	CAPITAL OUTLAY - FFE IMAGING	970-000	901	117.66
02/22/2018	GENS	67159	11391019600321048	FIRST BANKCARD	rack	970-000	901	315.14
02/22/2018	GENS	67159	11324250542965032	FIRST BANKCARD	PRINT CLAMPS	970-000	901	344.96
02/22/2018	GENS	67159	11324250542965032	FIRST BANKCARD	SALES TAX	970-000	901	20.68
02/22/2018	GENS	67159	1381303801323458	FIRST BANKCARD	CAPITAL OUTLAY - FFE PRINT CLAMPS	970-000	901	111.52
02/22/2018	GENS	67159	1381303801323458	FIRST BANKCARD	SALES TAX	970-000	901	6.69
02/22/2018	GENS	67159	MISC SUPPLIES	FIRST BANKCARD	CAPITAL OUTLAY - FFE FRAMES	970-000	901	9.52
02/22/2018	GENS	67159	MISC SUPPLIES	FIRST BANKCARD	CAPITAL OUTLAY - FFE FRAMES	970-000	901	42.36

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02/22/2018	GENS	67159	MISC SUPPLIES	FIRST BANKCARD	CAPITAL OUTLAY - FFE FRAMES	970-000	901	82.67
02/22/2018	GENS	67159	MISC SUPPLIES	FIRST BANKCARD	CAPITAL OUTLAY - FFE FRAMES	970-000	901	89.03
02/22/2018	GENS	67159	11391019600321048	FIRST BANKCARD	SALE TAX	974-000	901	18.90
					CHECK GENS 67159 TOTAL FOR FUND 101:			1,204.70
02/23/2018	GENS	4440(A)	29699	CENTRAL INTERCONNECT INC	AV SYSTEM PROGRESS BILL 1	970-000	901	1,475.00
02/23/2018	GENS	4442(A)*#	372993	FISHBECK THOMPSON CARR & HUBER	CAPITAL OUTLAY - BLDGIMP B&G PLANS	975-000	901	1,918.50
					Total for department 901:			59,921.96
Department: 965 TRANSFERS OUT								
02/15/2018	GENS	67106	JAN & FEB F=GF ALLOC	CASCADE CHARTER TOWNSHIP	TRANSFER TO FIRE FUND JAN GF ALLOC	999-006	965	33,333.33
02/15/2018	GENS	67106	JAN & FEB F=GF ALLOC	CASCADE CHARTER TOWNSHIP	TRANSFER TO FIRE FUND FEB GF ALLOC	999-006	965	33,333.33
					CHECK GENS 67106 TOTAL FOR FUND 101:			66,666.66
					Total for department 965:			66,666.66
					Total for fund 101 GENERAL FUND			322,158.00
FUND 206 - FIRE FUND								
02/22/2018	GENS	16(E)*#	HEALTH INS 3/2018	WEST MICHIGAN HEALTH INSURANCE	FIRE COBRA MARCH	231-205	000	1,546.23
					Total for department 000:			1,546.23
Department: 336 FIRE DEPARTMENT								
02/08/2018	GENS	67028	18-22P	2 THE RESCUE	Training	726-000	336	600.00
02/08/2018	GENS	67041	CPR TRAINING	CASCADE FIRE FIGHTERS ASSOC	FIRE MEMBERSHIP AND DUES CPR TRAINING CARD	723-000	336	81.00
02/08/2018	GENS	67042	52558	CASCADE PRINTING & GRAPHICS	FIRE OTH EXP MONOXIDE NOTICE FINDINGS	787-000	336	61.20
02/08/2018	GENS	67045*#	301-02736 JAN	CINTAS CORP #301	FIRE STATION MAINT JAN	936-000	336	99.55
02/08/2018	GENS	67046	8529112730015086 2/2	COMCAST	FIRE PHONES/BUTTRICK INTERNET FEB	924-002	336	104.40
02/08/2018	GENS	67047	8529112730083548 2/2	COMCAST	FIRE PHONES/BUTTRICK XFINITY FEB	924-002	336	42.58
02/08/2018	GENS	67048*#	8529112730047816 F18	COMCAST	FIRE PHONES CABL FEB	924-000	336	110.20
02/08/2018	GENS	67050	SUPPLIES 1/31/2018	KREIGH DEERING	FIRE EQUIPMENT MAINT SPECIALITY TAPE	938-000	336	10.60
02/08/2018	GENS	67051*#	910020652699 1/2018	DTE ENERGY	FIRE HEATING/BUTTRICK JAN	923-002	336	557.12
02/08/2018	GENS	67055	30349	FRONT LINE SERVICES INC.	Engine 8 Parts	938-000	336	325.07
02/08/2018	GENS	67055	30373	FRONT LINE SERVICES INC.	Discharge sensor	938-000	336	419.43
02/08/2018	GENS	67055	30408	FRONT LINE SERVICES INC.	FIRE EQUIP MAINT MINI LIFT/TURN LATCH	938-000	336	38.50
					CHECK GENS 67055 TOTAL FOR FUND 206:			783.00
02/08/2018	GENS	67056	22022499	GREAT AMERICA FINANCIAL SERVICE	FIRE COPIER/LEASE/LEXMARK XC4150	939-000	336	180.29
02/08/2018	GENS	67062*#	910983	HUB INTERNATIONAL MIDWEST EAST	FIRE PROPERTY/CON/VECHICLE INS 2018 COMM	810-000	336	15,225.00
02/08/2018	GENS	67074	7110173X	NFCSS SUBSCRIPTION PROCESSING	FIRE PUBLICATIONS NATL FIRE CODES	901-000	336	** VOIDED **
Void Reason: NEW MEMBERSHIP								

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02/08/2018	GENS	67075	635911	NYE UNIFORM COMPANY	FIRE UNIFORMS NORRIS	768-000	336	75.00
02/08/2018	GENS	67077*#	0240-006914418	REPUBLIC SERVICES	FIRE STATION MAINT/BUTTRICK RECYCLE FEB	936-002	336	161.70
02/08/2018	GENS	67084*#	539401-0	SUPPLYGEEKS.BIZ	FIRE FUND OFFICE SUPPLIES	727-000	336	33.30
02/08/2018	GENS	67093	28705480	VALLEY CITY LINEN INC	FIRE STATION MAINT-RUG & TOWEL CLEANING	936-000	336	39.95
02/08/2018	GENS	67093	28711416	VALLEY CITY LINEN INC	FIRE STATION MAINT-RUG & TOWEL CLEANING	936-000	336	39.95
02/08/2018	GENS	67093	28716556	VALLEY CITY LINEN INC	FIRE STATION MAINT-RUG & TOWEL CLEANING	936-000	336	39.95
02/08/2018	GENS	67093	28721679	VALLEY CITY LINEN INC	FIRE STATION MAINT-RUG & TOWEL CLEANING	936-000	336	39.95
02/08/2018	GENS	67093	28726820	VALLEY CITY LINEN INC	FIRE STATION MAINT-RUG & TOWEL CLEANING	936-000	336	39.95
				CHECK GENS 67093 TOTAL FOR FUND 206:				199.75
02/08/2018	GENS	67095*#	9800673941	VERIZON WIRELESS	FIRE PHONES JAN	924-000	336	113.00
02/08/2018	GENS	67096	18-00203	WEST INVESTIGATIONS INC	FIRE FIGHTER HIRING REAVIOLO	803-000	336	60.00
02/09/2018	GENS	4395(A)	383-373643	BATTERIES PLUS - 383	Replacement batteries for equip	938-000	336	301.20
02/09/2018	GENS	4395(A)	353-3473-790	BATTERIES PLUS - 383	FIRE EQUIPMENT MAINT CR INV 3583-373643	938-000	336	(50.10)
				CHECK GENS 4395(A) TOTAL FOR FUND 206:				250.80
02/09/2018	GENS	4396(A)	4614	BIO CARE	Physicals for New POC	957-000	336	1,575.00
02/09/2018	GENS	4397(A)*#	JAN 2018	CONSUMERS ENERGY	103023462197 2867 THORNHILLS AVE SE	921-002	336	26.90
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100012762959 2990 BUTTRICK AVE SE	921-002	336	662.14
				CHECK GENS 4397(A) TOTAL FOR FUND 206:				689.04
02/09/2018	GENS	4398(A)	29501	CENTRAL INTERCONNECT INC	IP Phone	738-000	336	392.18
02/09/2018	GENS	4406(A)*#	201265	KINGSLAND'S ACE HARDWARE	FIRE STATION MAINT COMPUTER SURGE	936-000	336	26.09
02/09/2018	GENS	4406(A)	201269	KINGSLAND'S ACE HARDWARE	FIRE STATION MAINT SCRUB/SPONGE	936-000	336	10.77
02/09/2018	GENS	4406(A)	201348	KINGSLAND'S ACE HARDWARE	FIRE STATION MAINT SUPPLIES	936-000	336	26.67
				CHECK GENS 4406(A) TOTAL FOR FUND 206:				63.53
02/09/2018	GENS	4409(A)*#	211520	QUALITY AIR	MONTHLY MAINTENANCE- FIRE JAN	936-000	336	139.08
02/09/2018	GENS	4409(A)	212569	QUALITY AIR	MONTHLY MAINTENANCE- FIRE	936-000	336	139.08
02/09/2018	GENS	4409(A)	211520	QUALITY AIR	MONTHLY MAINTENANCE- FIRE BUTTRICK JAN	936-002	336	101.94
02/09/2018	GENS	4409(A)	212569	QUALITY AIR	MONTHLY MAINTENANCE- FIRE BUTTRICK	936-002	336	101.94
				CHECK GENS 4409(A) TOTAL FOR FUND 206:				482.04
02/09/2018	GENS	4422(A)*#	52990776	WEX BANK	FIRE FUELS JAN	745-000	336	1,307.36
02/09/2018	GENS	67099	MAGERS,ADAM 2018	NFCSS SUBSCRIPTION PROCESSING	FIRE PUBLICATIONS MAGERS NFPA 2018	901-000	336	1,345.50
02/15/2018	GENS	67102*#	2020271	B&B HEATING & COOLING	FIRE STATION MAINT SPREADER 2/3	936-000	336	** VOIDED **
Void Reason: WRONG VENDOR S/B B&B TRUCK EQUIPMENT								
02/15/2018	GENS	67113	98980	FIRE PROTECTION PUBLICATIONS	FIRE PUBLICATIONS FIRE PROTECTION PUB	901-000	336	182.70
02/15/2018	GENS	67124*#	JAN 2018``	MLIVE MEDIA GROUP	FIRE PUBLICATIONS EMPLOYMENT	901-000	336	792.88
02/15/2018	GENS	67127	636213	NYE UNIFORM COMPANY	FIRE UNIFORMS BADGE PINS	768-000	336	519.00

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02/15/2018	GENS	67128	4251	RIVERHOUSE	FIRE UNIFORMS HANES NANO TEES	768-000	336	72.00
02/15/2018	GENS	67129	2018020975	STATE SYSTEMS-RADIO	FIRE RADIO MAINT MICROPHONE	937-000	336	196.87
02/15/2018	GENS	67130*#	540488-0	SUPPLYGEEKS.BIZ	FIRE FUND OFFICE SUPPLIES	727-000	336	79.64
02/15/2018	GENS	67130	540172-0	SUPPLYGEEKS.BIZ	FIRE FUND OFFICE SUPPLIES	727-000	336	93.45
02/15/2018	GENS	67130	540400-0	SUPPLYGEEKS.BIZ	FIRE FUND OFFICE SUPPLIES	727-000	336	65.87
				CHECK GENS 67130 TOTAL FOR FUND 206:				238.96
02/15/2018	GENS	67143*#	9800896762	VERIZON WIRELESS	FIRE PHONES TABLET	924-000	336	16.03
02/15/2018	GENS	67143	9800909352	VERIZON WIRELESS	CELL PHONES/DATA-MODEMS JAN	924-100	336	201.68
				CHECK GENS 67143 TOTAL FOR FUND 206:				217.71
02/16/2018	GENS	4423(A)	383-374560	BATTERIES PLUS - 383	FIRE EQUIPMENT MAINT 12V SLA BATTERIES	938-000	336	37.99
02/16/2018	GENS	4426(A)*#	531236	FIRST CHOICE COFFEE SERVICE	FIRE OTHER EXPENSES COFFEE SERVICE	787-000	336	76.45
02/16/2018	GENS	4431(A)	561242	SHMG OCCUPATIONAL HEALTH	FIRE PHYSICAL EXAMS DETTWILER	957-000	336	156.48
02/19/2018	GENS	67144*#	2020271	B & B TRUCK EQUIPMENT INC	FIRE STATION MAINT TAILGATE SPREADER	936-000	336	1,820.68
02/22/2018	GENS	67149	166081	CANFIELD PLUMBING & HEATING	Plumbing repair	936-000	336	260.00
02/22/2018	GENS	67151*#	50946	CASCADE AUTOMOTIVE SERVICE	Replacement Batteries for R-7	938-000	336	389.94
02/22/2018	GENS	67156	36120	EXTREME GRAFFIX	Equipment label stickers	938-000	336	290.29
02/22/2018	GENS	67159*#	POOLMAN,DOUG 2018	FIRST BANKCARD	FIRE MEM AND DUES POOLMAN IAAF RECERTIFI	723-000	336	140.00
02/22/2018	GENS	67159	MAGER,ADAM 1/19	FIRST BANKCARD	FIRE EDUCATION MAGERS MFIS CONF	724-000	336	492.74
02/22/2018	GENS	67159	177230	FIRST BANKCARD	FIRE OTHER EXPENSES FIRE MTG	787-000	336	17.75
02/22/2018	GENS	67159	FIRE OFF HANDBOOK	FIRST BANKCARD	FIRE PUBLICATIONS FIE OFFICER HANDBOOK	901-000	336	170.00
				CHECK GENS 67159 TOTAL FOR FUND 206:				820.49
02/22/2018	GENS	67172	99700861	MOORE MEDICAL, LLC	FIRE SUPPLEMENTAL EQUIPMENT	958-000	336	109.73
02/22/2018	GENS	67172	99701111	MOORE MEDICAL, LLC	FIRE SUPPLEMENTAL EQUIPMENT	958-000	336	191.98
02/22/2018	GENS	67172	9706295	MOORE MEDICAL, LLC	FIRE SUPPLEMENTAL EQUIPMENT	958-000	336	160.14
02/22/2018	GENS	67172	99707990	MOORE MEDICAL, LLC	FIRE SUPPLEMENTAL EQUIPMENT	958-000	336	180.00
02/22/2018	GENS	67172	90631342	MOORE MEDICAL, LLC	FIRE SUPPLEMENTAL EQUIP CR INV 99706295	958-000	336	(160.14)
				CHECK GENS 67172 TOTAL FOR FUND 206:				481.71
02/22/2018	GENS	67173	46976	NATIONAL HOSE TESTING SPECIALTIES	Fire Hose Testing	938-000	336	287.50
02/22/2018	GENS	67174	637583	NYE UNIFORM COMPANY	Uniform Items	768-000	336	112.50
02/22/2018	GENS	67174	639449	NYE UNIFORM COMPANY	Uniform Items	768-000	336	4.00
02/22/2018	GENS	67174	638920	NYE UNIFORM COMPANY	Uniform Items	768-000	336	301.00
02/22/2018	GENS	67174	635909	NYE UNIFORM COMPANY	FIRE UNIFORMS BOONENBERG CLOTH ALLOW	768-000	336	75.00
02/22/2018	GENS	67174	637584	NYE UNIFORM COMPANY	Uniform Items	768-000	336	131.97
02/22/2018	GENS	67174	635910	NYE UNIFORM COMPANY	FIRE UNIFORMS KNOWLES	768-000	336	75.00
				CHECK GENS 67174 TOTAL FOR FUND 206:				699.47
02/22/2018	GENS	67175	CLOTH ALLOW 2/06	PELL, TODD	FIRE UNIFORMS PELL CLOTH ALLOW - BOOTS	768-000	336	60.00
02/22/2018	GENS	67181	TAILORING 2/08	SNYDER, JON	FIRE UNIFORMS SNYDER UNIFORM ADJ	768-000	336	16.00

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02/22/2018	GENS	67190	36580	TECH MASTER INC	E-8 Transmission Repair	938-000	336	519.00
02/22/2018	GENS	67193	9801459795	VERIZON WIRELESS	CELL PHONES/DATA-MODEMS	924-100	336	320.08
02/23/2018	GENS	4441(A)	44090	DINGES FIRE CO.	Fire Helmets	959-000	336	1,163.59
02/23/2018	GENS	4441(A)	44543	DINGES FIRE CO.	FIRE PROTECTIVE CLOTHING GXTREME GEAR	959-000	336	11,035.00
CHECK GENS 4441(A) TOTAL FOR FUND 206:								12,198.59
02/23/2018	GENS	4443(A)	4603	FUEL MANAGEMENT SYSTEM	FIRE FUELS	745-000	336	111.25
02/23/2018	GENS	4443(A)	4603	FUEL MANAGEMENT SYSTEM	FIRE FUELS DISCOUNT	745-000	336	(6.32)
CHECK GENS 4443(A) TOTAL FOR FUND 206:								104.93
Total for department 336:								45,362.86
Department: 850 BENEFITS/INSURANCE								
02/08/2018	GENS	67054*	163384458	FIDELITY SECURITY LIFE INS	VISION INSURANCE BENEFITS JAN	718-000	850	189.82
02/08/2018	GENS	67073*#	000696754057	MUTUAL OF OMAHA INSURANCE	LIFE & DISABILITY INSURANCE LTD JAN	720-000	850	465.88
02/08/2018	GENS	67073	000696754057	MUTUAL OF OMAHA INSURANCE	LIFE & DISABILITY INSURANCE AD&D JAN	720-000	850	29.19
02/08/2018	GENS	67073	000696754057	MUTUAL OF OMAHA INSURANCE	LIFE & DIS INSURANCE BENEFITS LIF JAN	720-000	850	192.00
CHECK GENS 67073 TOTAL FOR FUND 206:								687.07
02/15/2018	GENS	67110*	RIS0001762766	DELTA DENTAL	DENTAL INSURANCE BENEFITS MAR	721-000	850	1,842.15
02/15/2018	GENS	67110	RIS0001762766	DELTA DENTAL	MI CLAIMS TAX - DENTAL MAR	721-200	850	17.44
CHECK GENS 67110 TOTAL FOR FUND 206:								1,859.59
02/22/2018	GENS	16(E)*#	HEALTH INS 3/2018	WEST MICHIGAN HEALTH INSURANCE	HEALTH INSURANCE BENEFITS MARCH	719-000	850	12,575.94
Total for department 850:								15,312.42
Department: 901 CAPITAL OUTLAY								
02/16/2018	GENS	4427(A)*#	APPL# 4	FISHBECK THOMPSON CARR & HUBER	CAPITAL OUTLAY - LAND IMP CASC HALL RENO	974-000	901	25,365.94
02/16/2018	GENS	4427(A)	APPL# 5	FISHBECK THOMPSON CARR & HUBER	CAPITAL OUTLAY - LAND IMP CASC HALL RENO	974-000	901	13,345.11
CHECK GENS 4427(A) TOTAL FOR FUND 206:								38,711.05
02/16/2018	GENS	4428(A)	118006973	PHYSIO-CONTROL CO	LUCAS 3 Chest Compression Systems	970-000	901	30,525.40
02/19/2018	GENS	67145	0000073325	ROSENBAUER SOUTH DAKOTA, LLC	ROSENBAUER RESCUE APPARATUS	970-000	901	244,188.00
Total for department 901:								313,424.45
Total for fund 206 FIRE FUND								375,645.96
FUND 209 - CCT OPEN SPACE FUND								
02/09/2018	GENS	4397(A)*#	JAN 2018	CONSUMERS ENERGY	100041772151 6803 BURTON ST SE	921-000	751	205.51
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100061096465 6803 BURTON ST SE	921-000	751	23.88
CHECK GENS 4397(A) TOTAL FOR FUND 209:								229.39
02/09/2018	GENS	4409(A)*#	211520	QUALITY AIR	MONTHLY MAINTENANCE- BURTON PARK JAN	935-000	751	13.90
02/09/2018	GENS	4409(A)	212569	QUALITY AIR	MONTHLY MAINTENANCE- BURTON PARK	935-000	751	13.90
CHECK GENS 4409(A) TOTAL FOR FUND 209:								27.80
Total for department 751:								257.19
Total for fund 209 CCT OPEN SPACE								257.19
FUND 216 - PATHWAYS FUND								
02/23/2018	GENS	4442(A)*#	372993	FISHBECK THOMPSON CARR & HUBER	ENGINEERING PATHWAY MILEAGE	821-100	758	330.00
Total for department 758:								330.00

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Total for fund 216 PATHWAYS FUND								330.00
FUND 246 - IRF FUND								
02/09/2018	GENS	4403(A)*#	372961	FISHBECK THOMPSON CARR & HUBER	ADMIN ENGINEERING COSTS UTILI;TY EXT	821-000	295	1,101.97
02/09/2018	GENS	4403(A)	372353	FISHBECK THOMPSON CARR & HUBER	ADMIN ENGINEERING COSTS TRAILS PUP UTILI	821-000	295	123.75
02/09/2018	GENS	4403(A)	372353	FISHBECK THOMPSON CARR & HUBER	ADMIN ENGINEERING COSTS 3009 THORNHILLS	821-000	295	82.50
02/09/2018	GENS	4403(A)	372353	FISHBECK THOMPSON CARR & HUBER	ADMIN ENGINEERING COSTS 60TH ST APT	821-000	295	123.75
CHECK GENS 4403(A) TOTAL FOR FUND 246:								1,431.97
02/23/2018	GENS	4442(A)*#	372993	FISHBECK THOMPSON CARR & HUBER	ADMIN ENGINEERING COSTS UTILITY EXT	821-000	295	82.50
02/23/2018	GENS	4442(A)	372993	FISHBECK THOMPSON CARR & HUBER	ADMIN ENGINEERING COSTS MEADOWS AT ABBEY	821-000	295	165.00
02/23/2018	GENS	4442(A)	372993	FISHBECK THOMPSON CARR & HUBER	ADMIN ENGINEERING COSTS CASCADE TRAILS	821-000	295	82.50
CHECK GENS 4442(A) TOTAL FOR FUND 246:								330.00
Total for department 295:								1,761.97
Total for fund 246 IRF								1,761.97
FUND 248 - DDA FUND								
02/08/2018	GENS	67095*#	9800673941	VERIZON WIRELESS	DDA CELL PHONES JAN	924-100	170	50.28
02/09/2018	GENS	4397(A)*#	JAN 2018	CONSUMERS ENERGY	100063460503 5770 FOREMOST DR SE	921-000	170	223.28
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100066874924 2990 LUCERNE DR SE	921-000	170	264.65
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100054379084 5196 28TH ST SE	921-000	170	305.82
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100054393572 5434 28TH ST SE	921-000	170	102.64
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100041059393 6282 28TH ST SE	921-000	170	200.13
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100011901541 6800 CASCADE RD SE	921-000	170	505.83
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100011901814 6811 CASCADE RD SE	921-000	170	275.25
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100012017115 6753 OLD 28TH ST	921-000	170	381.80
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100012017305 6610 28TH ST SE	921-000	170	243.70
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100012213962 6658 28TH ST SE	921-000	170	23.41
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100041058650 6116 28TH ST SE	921-000	170	135.15
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100041059278 5905 28TH ST SE	921-000	170	156.65
02/09/2018	GENS	4397(A)	JAN 2018	CONSUMERS ENERGY	100041081355 5613 28TH ST SE	921-000	170	73.76
CHECK GENS 4397(A) TOTAL FOR FUND 248:								2,892.07
02/09/2018	GENS	4403(A)*#	372353	FISHBECK THOMPSON CARR & HUBER	ENGINEERING NORTHERN STAR ROAD	821-000	170	495.00
02/09/2018	GENS	4406(A)*#	201310	KINGSLAND'S ACE HARDWARE	MAINT & REPAIR/IMPROV STAR LAG SCREW	931-000	170	15.29
02/15/2018	GENS	67114*#	WS2042969 OCT-JAN 18	GRAND RAPIDS CITY TREASURER	WATER-SEWER 6658 28TH ST IRRIG OCT-JAN	927-000	170	9.36
02/15/2018	GENS	67143*#	9800896762	VERIZON WIRELESS	CELL PHONES TABLET	924-100	170	16.03
02/22/2018	GENS	67159*#	KORHORN,SANDRA 2018	FIRST BANKCARD	DDA - ED KORHORN,S ICSC REGISTRATION	724-000	170	25.00
02/22/2018	GENS	67159	06942	FIRST BANKCARD	DDA - MILEAGE KORHORN PARKING	860-000	170	9.00
CHECK GENS 67159 TOTAL FOR FUND 248:								34.00
02/22/2018	GENS	67165*#	090654	INTERURBAN TRANSIT PARTNERSHIP	BUS SERVICE 28TH ST FEB	861-100	170	7,331.16
02/23/2018	GENS	4442(A)*#	372993	FISHBECK THOMPSON CARR & HUBER	ENGINEERING CENTENNIAL PARK	821-000	170	132.00
Total for department 170:								10,975.19
Total for fund 248 DDA								10,975.19
FUND 249 - BUILDING FUND								

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02/08/2018	GENS	67044	P# 3003	CASCADE CHARTER TOWNSHIP	S/W CONNECT 2165 THORNAPPLE RIVER DR	237-000	000	1,100.00	
02/15/2018	GENS	67107	P# 3027	CASCADE CHARTER TOWNSHIP	S/W CONNECT 8185 ASHWOOD DR SE	237-000	000	1,100.00	
02/16/2018	GENS	4429(A)	REFUND PM18600131	QUALITY AIR	GR TWP MECHANICAL PERMITS REFUND	607-533	000	90.00	
02/22/2018	GENS	67153	P# 3004	CASCADE CHARTER TOWNSHIP	S/W CONNECT 6538 ROUND HILL CT	237-000	000	2,200.00	
Department: 371 BUILDING DEPARTMENT								Total for department 000:	4,490.00
02/08/2018	GENS	67034	MILG 1/15-2/02 & CLO	BENOIT, BILL	DEPARTMENT UNIFORMS BENOIT CLOTH ALLOW	768-000	371	300.00	
02/08/2018	GENS	67034	MILG 1/15-2/02 & CLO	BENOIT, BILL	MILEAGE - BENOIT 912 MILES	860-000	371	497.04	
								CHECK GENS 67034 TOTAL FOR FUND 249:	797.04
02/08/2018	GENS	67035	MILG 1/152/02 & CLOT	BIEGALLE, JEFFREY	DEPT UNIFORMS BIEGALLE,J CLOTH ALLOW	768-000	371	22.24	
02/08/2018	GENS	67035	MILG 1/152/02 & CLOT	BIEGALLE, JEFFREY	MILEAGE- BIEGALLE,J 801 MILES	860-000	371	436.55	
								CHECK GENS 67035 TOTAL FOR FUND 249:	458.79
02/08/2018	GENS	67037	115714	BS&A SOFTWARE	USAGE FEE - PERMITS	939-000	371	1,846.00	
02/08/2018	GENS	67037	115714A	BS&A SOFTWARE	ONLINE SERVICE FEE & SUPPORT	939-000	371	2,185.00	
								CHECK GENS 67037 TOTAL FOR FUND 249:	4,031.00
02/08/2018	GENS	67049	MILG 1/15-2/2	KEN DAVIS	MILEAGE DAVIS 735 MILES	860-000	371	400.58	
02/08/2018	GENS	67058	MILG 1/15-2/2	DANIEL L HEYER	MILEAGE HEYER 764 MILES	860-000	371	416.38	
02/08/2018	GENS	67062*#	910983	HUB INTERNATIONAL MIDWEST EAST	INSURANCE 2018 COMMERCIAL	810-000	371	7,613.00	
02/08/2018	GENS	67063	MILG 1/15-2/02	HUYSER, DANIEL A.	MILEAGE- HUYSER 820 MILES	860-000	371	446.90	
02/08/2018	GENS	67065	9004258893	KONICA MINOLTA ALBIN	C454 COPIER/PRINTER	939-000	371	54.34	
02/08/2018	GENS	67066	BATH/KITCHEN 1/08	KUTCHINS, JULIE	OTHER EXPENSES BATH/KITCHEN SUPPLIES	787-000	371	21.20	
02/08/2018	GENS	67066	MILG 1/15-2/02	KUTCHINS, JULIE	MILEAGE KUTCHIN 50 MILES	860-000	371	27.25	
								CHECK GENS 67066 TOTAL FOR FUND 249:	48.45
02/08/2018	GENS	67070	MILG 1/15-2/02	VINCENT MILITO	MILEAGE MILITO- 716 MIKES	860-000	371	390.22	
02/08/2018	GENS	67078	50519797699	RICOH USA INC	MP C4504EX COPIER/PRINTER LABOR	939-000	371	64.58	
02/08/2018	GENS	67079	REIMB-POSTERS	RON SABIN	SUPPLIES OFFICE POSTERS	727-000	371	51.33	
02/08/2018	GENS	67079	MILG 1/15-2/02	RON SABIN	MILEAGE SABIN 723 MILES	860-000	371	394.04	
								CHECK GENS 67079 TOTAL FOR FUND 249:	445.37
02/08/2018	GENS	67095*#	9800673941	VERIZON WIRELESS	CELL PHONES JAN	924-100	371	503.32	
02/08/2018	GENS	67097	MILG 1/15-2/02&CLOTH	BRIAN WILSON	DEPARTMENT UNIFORMS WILSON CLOTH ALLOW	768-000	371	300.00	
02/08/2018	GENS	67097	MILG 1/15-2/02&CLOTH	BRIAN WILSON	MILEAGE WILSON 335 MILES	860-000	371	182.58	
								CHECK GENS 67097 TOTAL FOR FUND 249:	482.58
02/09/2018	GENS	4401(A)*#	89325	ENVIRO-CLEAN	BLDG CLEANING 3040 CHARLEVOIX JAN	939-000	371	308.00	
02/09/2018	GENS	4401(A)	89325	ENVIRO-CLEAN	SERVICE CONTRACTS 3040 CHARLEVOIX	939-000	371	(126.00)	
								CHECK GENS 4401(A) TOTAL FOR FUND 249:	171.11

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02/09/2018	GENS	4406(A)*#	201120	KINGSLAND'S ACE HARDWARE	BLDG - SPECIAL PROJECTS- SUPPLIES	967-000	371	38.25
02/09/2018	GENS	4410(A)	20154388	IT RIGHT	CISCO ASA 5506-X	967-000	371	1,087.50
02/15/2018	GENS	67100	MARCH 2018 LEASE	3040 CHARLEVOIX II, LLC	MONTHLY RENT MARCH	940-000	371	4,934.25
02/15/2018	GENS	67119	WILSON, BRIAN 2018	METRO BLDG INSP ASSOCIATION	MEMBERSHIPS AND DUES WILSON METRO BLDG	723-000	371	125.00
02/15/2018	GENS	67119	BENOIT, BILL 2018	METRO BLDG INSP ASSOCIATION	MEMBERSHIPS AND DUES BENOIT METRO BLDG	723-000	371	125.00
02/15/2018	GENS	67119	SABIN, RON 2018	METRO BLDG INSP ASSOCIATION	MEMBERSHIPS AND DUES SABIN METRO BLDG	723-000	371	125.00
					CHECK GENS 67119 TOTAL FOR FUND 249:			375.00
02/15/2018	GENS	67120	JC1018	MIDSTATE SECURITY CO.	material subtotal	967-000	371	2,058.01
02/15/2018	GENS	67120	JC1018	MIDSTATE SECURITY CO.	installation	967-000	371	1,555.00
02/15/2018	GENS	67120	JC1018	MIDSTATE SECURITY CO.	CARD READERS	967-000	371	353.39
					CHECK GENS 67120 TOTAL FOR FUND 249:			3,966.40
02/15/2018	GENS	67125	16773	MICHIGAN MUNICIPAL LEAGUE	OTHER EXPENSES BLDG INSP ADV	787-000	371	86.60
02/15/2018	GENS	67143*#	9800896762	VERIZON WIRELESS	CELL PHONES TABLET	924-100	371	128.26
02/16/2018	GENS	4424(A)	29217	CENTRAL INTERCONNECT INC	TEST & REPAIR CABLING	967-000	371	1,470.00
02/16/2018	GENS	4424(A)	29217	CENTRAL INTERCONNECT INC	RACK	967-000	371	275.00
02/16/2018	GENS	4424(A)	29217	CENTRAL INTERCONNECT INC	PATCH PANEL	967-000	371	285.00
					CHECK GENS 4424(A) TOTAL FOR FUND 249:			2,030.00
02/16/2018	GENS	4426(A)*#	529847	FIRST CHOICE COFFEE SERVICE	COFFEE SERVICE FOR BLDG DEPT 1/29	939-000	371	50.45
02/16/2018	GENS	4426(A)	528378	FIRST CHOICE COFFEE SERVICE	COFFEE SERVICE FOR BLDG BASE SETUP & COF	939-000	371	180.67
					CHECK GENS 4426(A) TOTAL FOR FUND 249:			231.12
02/16/2018	GENS	4430(A)	20154435	IT RIGHT	BUILDING DEPT RELOCATION	932-000	371	2,430.00
02/22/2018	GENS	67146	52351	3040 CHARLEVOIX II, LLC	UTILITIES- GAS, ELECTRIC, S/W	940-000	371	1,980.10
02/22/2018	GENS	67147	MILG 2/05-2/16	BENOIT, BILL	MILEAGE - BENOIT 658 MILES	860-000	371	358.61
02/22/2018	GENS	67148	MILG 2/5-2/16 & CLOT	BIEGALLE, JEFFREY	DEPARTMENT UNIFORMS BIEGALLE CLOTH ALLOW	768-000	371	20.75
02/22/2018	GENS	67148	MILG 2/5-2/16 & CLOT	BIEGALLE, JEFFREY	MILEAGE- BIEGALLE, J 530 MILES	860-000	371	288.85
					CHECK GENS 67148 TOTAL FOR FUND 249:			309.60
02/22/2018	GENS	67155	MILG 2/06-2/16	KEN DAVIS	MILEAGE DAVIS 358 MILES	860-000	371	195.11
02/22/2018	GENS	67159*#	4101 1/23	FIRST BANKCARD	SUPPLIES 6FT CABLE	727-000	371	31.99
02/22/2018	GENS	67159	9783440963	FIRST BANKCARD	SUPPLIES TONER	727-000	371	165.98
02/22/2018	GENS	67159	41010 1/13	FIRST BANKCARD	BLDG SUPPLIES FAT BOOK	727-000	371	32.99
02/22/2018	GENS	67159	BLDG STAFF MTG	FIRST BANKCARD	DEPT HEAD, SUPV EXP BLDG STAFF MTG	862-500	371	70.26
02/22/2018	GENS	67159	41010	FIRST BANKCARD	MONITOR	967-000	371	599.81
02/22/2018	GENS	67159	41010	FIRST BANKCARD	APPLETV	967-000	371	139.17
02/22/2018	GENS	67159	41010	FIRST BANKCARD	EPSON PROJECTOR	967-000	371	354.88
02/22/2018	GENS	67159	41010	FIRST BANKCARD	HDMI CABLE - 2 PACK	967-000	371	19.98
02/22/2018	GENS	67159	9782540796	FIRST BANKCARD	BLDG - SPECIAL PR SALES TAX TO BE CREDIT	967-000	371	66.83
02/22/2018	GENS	67159	9782540796	FIRST BANKCARD	BLDG - SPECIAL PROJ MEAL BOOKCASE	967-000	371	126.99
02/22/2018	GENS	67159	9782540796	FIRST BANKCARD	BLDG - SPECIAL PROJ MEDICA CART	967-000	371	161.49
02/22/2018	GENS	67159	9782590939	FIRST BANKCARD	DBLDG - SPECIAL PROJ BULLETIN BOAR	967-000	371	33.99
02/22/2018	GENS	67159	9782590939	FIRST BANKCARD	BLDG - SPECIAL PROJ DOUBLE SIDE DISPLAY	967-000	371	99.99
02/22/2018	GENS	67159	685627790	FIRST BANKCARD	HON 5 SHELF BOOKCASE	967-000	371	737.97

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02/22/2018	GENS	67159	685627790	FIRST BANKCARD	BLDG - SPECIAL PROJECTS SALES TAX	967-000	371	44.28
				CHECK GENS 67159 TOTAL FOR FUND 249:				2,686.60
02/22/2018	GENS	67161	MILG 2/05-2/15	DANIEL L HEYER	MILEAGE HEYER 432 MILES	860-000	371	235.44
02/22/2018	GENS	67162*#	5042202	THE HOME DEPOT CREDIT SERVICES	BLDG - SPECIAL PROJECTS 4FT WHITE CORD	967-000	371	116.56
02/22/2018	GENS	67162	8032172	THE HOME DEPOT CREDIT SERVICES	MISC PURCHASES FOR BLDG DEPT.	981-000	371	221.58
02/22/2018	GENS	67162	6031478	THE HOME DEPOT CREDIT SERVICES	MISC PURCHASES FOR BLDG DEPT.	981-000	371	218.36
				CHECK GENS 67162 TOTAL FOR FUND 249:				556.50
02/22/2018	GENS	67163	25956	HOOGERHYDE SAFE & LOCK, INC	OTHER EXP 3040 CHARLEVOIX- STRIKE MALF	787-000	371	118.00
02/22/2018	GENS	67164	MILG 2/5-2/16	HUYSER, DANIEL A.	MILEAGE- HUYSER 547 MILES	860-000	371	298.12
02/22/2018	GENS	67166	MILG 2/5-2/15	KUTCHINS, JULIE	MILEAGE KUTCHINS 22.5 MILES	860-000	371	12.26
02/22/2018	GENS	67168	MILG 2/5-2/16	VINCENT MILITO	MILEAGE MILITO- 521 MILES	860-000	371	283.95
02/22/2018	GENS	67176	BIEGALLE,JEFF 2018	PLBG INSPECTORS' ASSOC OF MI	MEMBERSHIPS AND DUES BIEGALLE,J PIAM2018	723-000	371	100.00
02/22/2018	GENS	67176	HEYR,DAN 2018	PLBG INSPECTORS' ASSOC OF MI	MEMBERSHIPS AND DUES HEYER PIAM 2018	723-000	371	100.00
02/22/2018	GENS	67176	MILITO,VINCENT 2018	PLBG INSPECTORS' ASSOC OF MI	MEMBERSHIPS AND DUES MILITO,V PIAM 2018	723-000	371	100.00
				CHECK GENS 67176 TOTAL FOR FUND 249:				300.00
02/22/2018	GENS	67178	MILG 2/5-2/16	RON SABIN	MILEAGE SABIN 451 MILES	860-000	371	245.80
02/22/2018	GENS	67194	MILG2/5-2/15	BRIAN WILSON	MILEAGE WILSON 349 MILES	860-000	371	190.21
					Total for department 371:			39,401.34
Department: 850 BENEFITS/INSURANCE								
02/08/2018	GENS	67054*	163384458	FIDELITY SECURITY LIFE INS	VISION INSURANCE BENEFITS JAN	718-000	850	93.04
02/08/2018	GENS	67073*#	000696754057	MUTUAL OF OMAHA INSURANCE	LIFE & DISABILITY INSURANCE BENEFITS LIF	720-000	850	114.29
02/08/2018	GENS	67073	000696754057	MUTUAL OF OMAHA INSURANCE	LIFE & DISABILITY INSURANCE AD&D JAN	720-000	850	17.38
02/08/2018	GENS	67073	000696754057	MUTUAL OF OMAHA INSURANCE	LIFE & DISABILITY INSURANCE LTD JAN	720-000	850	310.08
				CHECK GENS 67073 TOTAL FOR FUND 249:				441.75
02/15/2018	GENS	67110*	RIS0001762766	DELTA DENTAL	DENTAL INSURANCE BENEFITS MAR	721-000	850	640.43
02/15/2018	GENS	67110	RIS0001762766	DELTA DENTAL	MI CLAIMS TAX - DENTAL MAR	721-200	850	6.18
				CHECK GENS 67110 TOTAL FOR FUND 249:				646.61
02/22/2018	GENS	16(E)*#	HEALTH INS 3/2018	WEST MICHIGAN HEALTH INSURANCE	HEALTH INSURANCE BENEFITS MARCH	719-000	850	9,161.84
					Total for department 850:			10,343.24
Department: 901 CAPITAL OUTLAY								
02/16/2018	GENS	4427(A)*#	APPL# 4	FISHBECK THOMPSON CARR & HUBER	CAPITAL OUTLAY - BLDGIMP CASC HALL RENOV	975-000	901	25,365.94
02/16/2018	GENS	4427(A)	APPL# 5	FISHBECK THOMPSON CARR & HUBER	CAPITAL OUTLAY - BLDGIMP CASC HALL RENO	975-000	901	13,345.11
				CHECK GENS 4427(A) TOTAL FOR FUND 249:				38,711.05
					Total for department 901:			38,711.05
Department: 964 PAYMENTS TO OTHER TOWNSHIPS								
02/08/2018	GENS	67029	JAN 2018 PERMITS	ADA TOWNSHIP	PERMITS DUE TO ADA TWP JAN	964-400	964	4,044.20
02/08/2018	GENS	67043	JAN 2018 PERMITS	CASCADE CHARTER TOWNSHIP	PERMITS DUE CASCADE TWP JAN	964-800	964	5,003.40

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02/08/2018	GENS	67057	JAN 2018 PERMITS	GRAND RAPIDS CHARTER TOWNSHIP	PERMITS DUE TO GR TWP JAN	964-300	964	4,031.50
02/08/2018	GENS	67067	JAN 2018 PERMITS	LOWELL MI, CITY OF	PERMITS DUE CITY OF LOWELL JAN	964-700	964	578.00
02/08/2018	GENS	67094	JAN 2018 PERMITS	VERGENNES TOWNSHIP	PERMITS DUE TO VERGENNES TWP JAN	964-200	964	406.20
02/09/2018	GENS	4400(A)	JAN 2018 PERMITS	EAST GRAND RAPIDS/CITY OF	PERMITS DUE TO EAST GR JAN	964-500	964	2,582.40
02/09/2018	GENS	4407(A)	JAN 2018 PERMITS	LOWELL TOWNSHIP	PERMITS DUE TO LOWELL TWP JAN	964-100	964	362.00
02/09/2018	GENS	4408(A)	JAN 2018 PERMITS	PLAINFIELD CHARTER TOWNSHIP	PERMITS DUE PLAINFIELD JAN	964-600	964	3,989.45
					Total for department 964:			20,997.15
					Total for fund 249 BUILDING FUND			113,942.78
<b>FUND 270 - LIBRARY FUND</b>								
02/08/2018	GENS	67036	S10482	BRIGADE FIRE PROTECTION	Fix broken pipe in library	931-000	790	564.34
02/08/2018	GENS	67038	141620	BUIST ELECTRIC INC	labor to inspect water damage	931-000	790	322.00
02/08/2018	GENS	67039	165354	CANFIELD PLUMBING & HEATING	flushvalve and faucet batteries	931-000	790	201.00
02/08/2018	GENS	67045*#	301-02737 JAN 2018	CINTAS CORP #301	LIBRARY MAINTENANCE JAN CLEANING	931-000	790	1,026.72
02/08/2018	GENS	67051*#	910020668166 1/2018	DTE ENERGY	LIBRARY HEATING JAN	923-000	790	2,153.73
02/08/2018	GENS	67062*#	910983	HUB INTERNATIONAL MIDWEST EAST	LIBRARY PROPERTY INSURANCE 2018 COMMERIC	810-000	790	12,688.00
02/08/2018	GENS	67071*#	485023	MINER SUPPLY COMPANY	CLEANING SUPPLIES/PAPER PRODUCT LIBRARY	727-000	790	155.72
02/08/2018	GENS	67071	485820	MINER SUPPLY COMPANY	CLEANING SUPPLIES/PAPER PRODUCT LIBRARY	727-000	790	909.41
					CHECK GENS 67071 TOTAL FOR FUND 270:			1,065.13
02/08/2018	GENS	67077*#	0240-006914418	REPUBLIC SERVICES	LIBRARY MAINTENANCE RECYCLE FEB	931-000	790	520.92
02/09/2018	GENS	4397(A)*#	JAN 2018	CONSUMERS ENERGY	100000284784 2870 JACKSMITH AVE	921-000	790	5,164.85
02/09/2018	GENS	4401(A)*#	89325	ENVIRO-CLEAN	CLEANING LIBRARY JAN	802-200	790	2,244.35
02/09/2018	GENS	4401(A)	89325	ENVIRO-CLEAN	CLEANING WISNER JA	802-200	790	458.67
02/09/2018	GENS	4401(A)	89325	ENVIRO-CLEAN	CLEANING LIBRARY (WEEKEND) JAN	802-200	790	272.58
					CHECK GENS 4401(A) TOTAL FOR FUND 270:			2,975.60
02/09/2018	GENS	4406(A)*#	201295	KINGSLAND'S ACE HARDWARE	LIBRARY MAINTENANCE LED BR30 FLO	931-000	790	9.99
02/09/2018	GENS	4406(A)	201365	KINGSLAND'S ACE HARDWARE	LIBRARY MAINTENANCE BALLAST	931-000	790	207.46
					CHECK GENS 4406(A) TOTAL FOR FUND 270:			217.45
02/09/2018	GENS	4409(A)*#	211520	QUALITY AIR	MONTHLY MAINTENANCE- LIBRARY JAN	931-000	790	806.16
02/09/2018	GENS	4409(A)	212072	QUALITY AIR	Inspect cabinet heater due to flood	931-000	790	242.50
02/09/2018	GENS	4409(A)	212569	QUALITY AIR	MONTHLY MAINTENANCE- LIBRARY	931-000	790	806.16
					CHECK GENS 4409(A) TOTAL FOR FUND 270:			1,854.82
02/15/2018	GENS	67105	CPR TRAINING 12/06	CASCADE FIRE FIGHTERS ASSOC	LIBRARY MAINT CPR TRAINING 12/6/2017	931-000	790	320.00

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02/15/2018	GENS	67114*#	WS2039827 10-JAN	GRAND RAPIDS CITY TREASURER	LIBRARY WATER-SEWER OCT-JAN	927-000	790	895.58
02/15/2018	GENS	67114	WS2039828 OCT-JAN 18	GRAND RAPIDS CITY TREASURER	LIBRARY WATER-SEWER IRRIG OCT-JAN	927-000	790	27.67
02/15/2018	GENS	67114	WS2039826 NOV-FEB 18	GRAND RAPIDS CITY TREASURER	LIBRARY WATER-SEWER FIRE PROTECTION	927-000	790	49.99
					CHECK GENS 67114 TOTAL FOR FUND 270:			973.24
02/22/2018	GENS	67154	2452	CHERRY VALLEY ELECTRIC & PLUMBING	Replace lights at Library	931-000	790	2,452.70
02/22/2018	GENS	67157	2365588-00	FOUNDATION BUILDING MATERIALS	Arm cirrus chamfered 2x2 teg	931-000	790	2,518.93
02/22/2018	GENS	67167	SV010113	MIDSTATE SECURITY CO.	Tested all fire devices at Library	931-000	790	577.50
02/23/2018	GENS	4447(A)	2212312	QUALITY AIR	Motor Mount Grommet	931-000	790	619.74
02/23/2018	GENS	4447(A)	212198	QUALITY AIR	Overloads	931-000	790	521.00
					CHECK GENS 4447(A) TOTAL FOR FUND 270:			1,140.74
02/23/2018	GENS	4448(A)	5130927	SERVPRO SW GRAND RAPIDS #2705	LIBRARY MAINT FROZEN/CRACKED FIRE PROTEC	931-000	790	4,454.71
02/23/2018	GENS	4453(A)	00322684	THE LIGHT BULB COMPANY	Light Bulbs	931-000	790	428.22
					Total for department 790:			41,620.60
					Total for fund 270 LIBRARY FUND			41,620.60
<b>FUND 701 - TRUST AND AGENCY FUND</b>								
02/09/2018	GENS	4403(A)*#	372491	FISHBECK THOMPSON CARR & HUBER	ROUND HILL PROJECT S/W12/2016	252-040	000	882.50
02/16/2018	GENS	4427(A)*#	372855	FISHBECK THOMPSON CARR & HUBER	ROUND HILL PROJECT S/W12/2016	252-040	000	2,128.50
02/16/2018	GENS	4427(A)	372856	FISHBECK THOMPSON CARR & HUBER	GROOTERS 52ND ST PROJ S/W 4/2017	252-200	000	192.00
					CHECK GENS 4427(A) TOTAL FOR FUND 701:			2,320.50
					Total for department 000:			3,203.00
					Total for fund 701 TRUST AND AGENCY			3,203.00
<b>FUND 703 - CURRENT TAX COLLECTION FUND</b>								
02/01/2018	GENS	67006	FIRE 1722	CASCADE CHARTER TOWNSHIP	CCT - FIRE	214-115	000	** VOIDED **
					Void Reason: Voided Check Range Void Utility			
02/01/2018	GENS	67006	FIRE 1722	CASCADE CHARTER TOWNSHIP	CCT - FIRE PP	214-115	000	** VOIDED **
					Void Reason: Voided Check Range Void Utility			
02/01/2018	GENS	67007	GF 1722	CASCADE CHARTER TWP	CCT - OPERATING TAXES	214-110	000	** VOIDED **
					Void Reason: Voided Check Range Void Utility			
02/01/2018	GENS	67007	GF 1722	CASCADE CHARTER TWP	CCT - OPERATING TAXES PP	214-110	000	** VOIDED **
					Void Reason: Voided Check Range Void Utility			
02/01/2018	GENS	67007	GF 1722	CASCADE CHARTER TWP	CCT - OVER/SHORT	214-112	000	** VOIDED **
					Void Reason: Voided Check Range Void Utility			
02/01/2018	GENS	67007	GF 1722	CASCADE CHARTER TWP	CCT - STREET LIGHTS	214-140	000	** VOIDED **
					Void Reason: Voided Check Range Void Utility			
02/01/2018	GENS	67007	GF 1722	CASCADE CHARTER TWP	CCT - ADMIN	214-155	000	** VOIDED **
					Void Reason: Voided Check Range Void Utility			
02/01/2018	GENS	67008	LIB 1722	LIBRARY FUND	CCT - LIBRARY	214-120	000	** VOIDED **
					Void Reason: Voided Check Range Void Utility			
02/01/2018	GENS	67008	LIB 1722	LIBRARY FUND	CCT - LIBRARY PP	214-120	000	** VOIDED **
					Void Reason: Voided Check Range Void Utility			
02/01/2018	GENS	67009	OS 1722	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE	214-116	000	** VOIDED **
					Void Reason: Voided Check Range Void Utility			

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02/01/2018	GENS	67009	OS 1722	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE PP	214-116	000	** VOIDED **
Void Reason: Voided Check Range Void Utility								
02/01/2018	GENS	67010	PATH 1722	PATHWAYS FUND	CCT-PATHWAYS	214-100	000	** VOIDED **
Void Reason: Voided Check Range Void Utility								
02/01/2018	GENS	67010	PATH 1722	PATHWAYS FUND	CCT-PATHWAYS PP	214-100	000	** VOIDED **
Void Reason: Voided Check Range Void Utility								
02/01/2018	GENS	67011	POL 1722	POLICE FUND	CCT-POLICE	214-105	000	** VOIDED **
Void Reason: Voided Check Range Void Utility								
02/01/2018	GENS	67011	POL 1722	POLICE FUND	POLICE PP	214-105	000	** VOIDED **
Void Reason: Voided Check Range Void Utility								
02/01/2018	GENS	67012	KDL 1722	KENT DISTRICT LIBRARY	KDL - TAXES	223-110	000	** VOIDED **
Void Reason: Voided Check Range Void Utility								
02/01/2018	GENS	67016	OS 1722	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE	214-116	000	** VOIDED **
Void Reason: CHECK NUMBERS PRINTS WROND								
02/01/2018	GENS	67016	OS 1722	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE PP	214-116	000	** VOIDED **
Void Reason: CHECK NUMBERS PRINTS WROND								
02/01/2018	GENS	67017	PATH 1722	PATHWAYS FUND	CCT-PATHWAYS	214-100	000	** VOIDED **
02/01/2018	GENS	67017	PATH 1722	PATHWAYS FUND	CCT-PATHWAYS PP	214-100	000	** VOIDED **
02/01/2018	GENS	67018	POL 1722	POLICE FUND	CCT-POLICE	214-105	000	** VOIDED **
Void Reason: WROND NUMBERS PRINTED ON CHECKS								
02/01/2018	GENS	67018	POL 1722	POLICE FUND	POLICE PP	214-105	000	** VOIDED **
Void Reason: WROND NUMBERS PRINTED ON CHECKS								
02/01/2018	GENS	67019	KDL 1722	KENT DISTRICT LIBRARY	KDL - TAXES	223-110	000	** VOIDED **
Void Reason: WROND NUMBERS PRINTED ON CHECKS								
02/01/2018	GENS	67020	LIB 1722	LIBRARY FUND	CCT - LIBRARY	214-120	000	5,171.24
02/01/2018	GENS	67020	LIB 1722	LIBRARY FUND	CCT - LIBRARY PP	214-120	000	1,401.38
CHECK GENS 67020 TOTAL FOR FUND 703:								6,572.62
02/01/2018	GENS	67021	GF 1722	CASCADE CHARTER TWP	CCT - OPERATING TAXES	214-110	000	33,499.66
02/01/2018	GENS	67021	GF 1722	CASCADE CHARTER TWP	CCT - OPERATING TAXES PP	214-110	000	9,077.58
02/01/2018	GENS	67021	GF 1722	CASCADE CHARTER TWP	CCT - OVER/SHORT	214-112	000	(0.50)
02/01/2018	GENS	67021	GF 1722	CASCADE CHARTER TWP	CCT - STREET LIGHTS	214-140	000	1,717.83
02/01/2018	GENS	67021	GF 1722	CASCADE CHARTER TWP	CCT - ADMIN	214-155	000	7,258.07
CHECK GENS 67021 TOTAL FOR FUND 703:								51,552.84
02/01/2018	GENS	67022	FIRE 1722	CASCADE CHARTER TOWNSHIP	CCT - FIRE	214-115	000	45,346.98
02/01/2018	GENS	67022	FIRE 1722	CASCADE CHARTER TOWNSHIP	CCT - FIRE PP	214-115	000	12,287.93
CHECK GENS 67022 TOTAL FOR FUND 703:								57,634.91
02/01/2018	GENS	67023	OS 1722	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE	214-116	000	7,929.59
02/01/2018	GENS	67023	OS 1722	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE PP	214-116	000	2,148.81
CHECK GENS 67023 TOTAL FOR FUND 703:								10,078.40
02/01/2018	GENS	67024	PATH 1722	PATHWAYS FUND	CCT-PATHWAYS	214-100	000	13,739.47
02/01/2018	GENS	67024	PATH 1722	PATHWAYS FUND	CCT-PATHWAYS PP	214-100	000	3,723.05
CHECK GENS 67024 TOTAL FOR FUND 703:								17,462.52
02/01/2018	GENS	67025	POL 1722	POLICE FUND	CCT-POLICE	214-105	000	15,828.85
02/01/2018	GENS	67025	POL 1722	POLICE FUND	POLICE PP	214-105	000	4,289.27
CHECK GENS 67025 TOTAL FOR FUND 703:								20,118.12

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02/01/2018	GENS	67026	KDL 1722	KENT DISTRICT LIBRARY	KDL - TAXES	223-110	000	55,978.33
02/02/2018	GENS	15(A)	CAL 1722	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - OPERATING	225-410	000	93,736.60
02/02/2018	GENS	16(A)	CALD 1722	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - DEBT	225-420	000	55,660.30
02/02/2018	GENS	17(A)	FHPS 1722	FOREST HILLS PUBLIC SCHOOLS	FHPS - OPERATING	225-110	000	124,150.05
02/02/2018	GENS	17(A)	FHPS 1722	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST DEBT	225-111	000	224.49
02/02/2018	GENS	17(A)	FHPS 1722	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST OPER	225-111	000	4.37
02/02/2018	GENS	17(A)	FHPS 1722	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST REC	225-111	000	29.55
02/02/2018	GENS	17(A)	FHPS 1722	FOREST HILLS PUBLIC SCHOOLS	FHPS - DEBT	225-120	000	116,153.66
02/02/2018	GENS	17(A)	FHPS 1722	FOREST HILLS PUBLIC SCHOOLS	FHPS - RECREATION	225-130	000	15,282.88
				CHECK GENS 17(A) TOTAL FOR FUND 703:				255,845.00
02/02/2018	GENS	18(A)	GRCC 1722	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES	235-110	000	2,101.59
02/02/2018	GENS	18(A)	GRCC 1722	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES INTEREST	235-111	000	105.08
				CHECK GENS 18(A) TOTAL FOR FUND 703:				2,206.67
02/02/2018	GENS	19(A)	KC 1722	KENT COUNTY TREASURER	KENT COUNTY - OPERATING	222-110	000	5,057.01
02/02/2018	GENS	19(A)	KC 1722	KENT COUNTY TREASURER	KENT COUNTY - INTEREST	222-111	000	252.84
02/02/2018	GENS	19(A)	KC 1722	KENT COUNTY TREASURER	KENT COUNTY - JAIL	222-160	000	34,439.43
02/02/2018	GENS	19(A)	KC 1722	KENT COUNTY TREASURER	KENT COUNTY - ZOO/MUSEUM	222-165	000	19,197.89
02/02/2018	GENS	19(A)	KC 1722	KENT COUNTY TREASURER	KENT COUNTY - SENIOR	222-170	000	21,814.07
02/02/2018	GENS	19(A)	KC 1722	KENT COUNTY TREASURER	KENT COUNTY - VETERAN'S MILLAGE	222-172	000	2,177.08
				CHECK GENS 19(A) TOTAL FOR FUND 703:				82,938.32
02/02/2018	GENS	20(A)	SET 1722	KENT COUNTY TREASURER-SET	KENT COUNTY - INTEREST FHPS	222-111	000	354.44
02/02/2018	GENS	20(A)	SET 1722	KENT COUNTY TREASURER-SET	FHPS SET & OPERATING TAX (COUNTY)	228-001	000	7,088.82
				CHECK GENS 20(A) TOTAL FOR FUND 703:				7,443.26
02/02/2018	GENS	21(A)	KISD 1722	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES	234-110	000	6,698.21
02/02/2018	GENS	21(A)	KISD 1722	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES INTEREST	234-111	000	334.91
				CHECK GENS 21(A) TOTAL FOR FUND 703:				7,033.12
02/02/2018	GENS	22(A)	LOW 1722	LOWELL AREA SCHOOLS	LOWELL - OPERATING	226-110	000	7,026.37
02/02/2018	GENS	22(A)	LOW 1722	LOWELL AREA SCHOOLS	LOWELL - DEBT	226-120	000	2,772.95
02/02/2018	GENS	22(A)	LOW 1722	LOWELL AREA SCHOOLS	LOWELL BLDG/SITE	226-130	000	391.13
				CHECK GENS 22(A) TOTAL FOR FUND 703:				10,190.45
02/08/2018	GENS	67072	RFD06252007	MUTCHLER SCOTT D	DUE TO 41-19-06-252-007	275-000	000	30.00
02/08/2018	GENS	67085	FIRE	CASCADE CHARTER TOWNSHIP	CCT - FIRE	214-115	000	95,326.86
02/08/2018	GENS	67085	FIRE	CASCADE CHARTER TOWNSHIP	CCT - FIRE PP	214-115	000	34,903.41
02/08/2018	GENS	67085	FIRE	CASCADE CHARTER TOWNSHIP	CCT - IFT FIRE	214-215	000	1,105.46
				CHECK GENS 67085 TOTAL FOR FUND 703:				131,335.73
02/08/2018	GENS	67086	GF 1723	CASCADE CHARTER TWP	CCT - OPERATING TAXES	214-110	000	70,422.10
02/08/2018	GENS	67086	GF 1723	CASCADE CHARTER TWP	CCT - OPERATING TAXES PP	214-110	000	25,784.63
02/08/2018	GENS	67086	GF 1723	CASCADE CHARTER TWP	CCT - OVER/SHORT	214-112	000	0.20
02/08/2018	GENS	67086	GF 1723	CASCADE CHARTER TWP	CCT - STREET LIGHTS	214-140	000	1,463.86
02/08/2018	GENS	67086	GF 1723	CASCADE CHARTER TWP	CCT - ADMIN	214-155	000	17,021.92
02/08/2018	GENS	67086	GF 1723	CASCADE CHARTER TWP	CCT - IFT OPERATING TAXES	214-210	000	816.66
				CHECK GENS 67086 TOTAL FOR FUND 703:				115,509.37
02/08/2018	GENS	67087	LIB 1723	LIBRARY FUND	CCT - LIBRARY PP	214-120	000	3,980.61
02/08/2018	GENS	67087	LIB 1723	LIBRARY FUND	CCT - LIBRARY	214-120	000	10,870.97
02/08/2018	GENS	67087	LIB 1723	LIBRARY FUND	CCT-IFT LIBRARY	214-220	000	126.07

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CHECK GENS 67087 TOTAL FOR FUND 703:								14,977.65
02/08/2018	GENS	67088	OS 1723	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE PP	214-116	000	6,103.58
02/08/2018	GENS	67088	OS 1723	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE	214-116	000	16,669.53
02/08/2018	GENS	67088	OS 1723	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE IFT	214-216	000	193.30
CHECK GENS 67088 TOTAL FOR FUND 703:								22,966.41
02/08/2018	GENS	67089	PATH 1723	PATHWAYS FUND	CCT-PATHWAYS	214-100	000	28,882.77
02/08/2018	GENS	67089	PATH 1723	PATHWAYS FUND	CCT-PATHWAYS PP	214-100	000	10,575.26
02/08/2018	GENS	67089	PATH 1723	PATHWAYS FUND	CCT - IFT PATHWAYS	214-200	000	334.93
CHECK GENS 67089 TOTAL FOR FUND 703:								39,792.96
02/08/2018	GENS	67090	POL 1723	POLICE FUND	CCT-POLICE	214-105	000	33,275.08
02/08/2018	GENS	67090	POL 1723	POLICE FUND	CCT-POLICE PP	214-105	000	12,183.55
02/08/2018	GENS	67090	POL 1723	POLICE FUND	CCT - IFT POLICE	214-205	000	385.87
CHECK GENS 67090 TOTAL FOR FUND 703:								45,844.50
02/08/2018	GENS	67091	KDL 1723	KENT DISTRICT LIBRARY	KDL - TAXES	223-110	000	126,487.30
02/08/2018	GENS	67091	KDL 1723	KENT DISTRICT LIBRARY	KDL - IFT TAXES	223-210	000	1,073.69
CHECK GENS 67091 TOTAL FOR FUND 703:								127,560.99
02/08/2018	GENS	67092	MI 1723	STATE OF MICHIGAN	IFT SET & OPER TAX CALED OPER	228-201	000	5,944.95
02/09/2018	GENS	4412(A)	CAL 1723	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - OPERATING	225-410	000	136,842.28
02/09/2018	GENS	4413(A)	CALD 1723	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - DEBT	225-420	000	65,225.08
02/09/2018	GENS	4413(A)	CALD 1723	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - IFT DEBT	225-520	000	2,724.56
CHECK GENS 4413(A) TOTAL FOR FUND 703:								67,949.64
02/09/2018	GENS	4414(A)	FHPS 1723	FOREST HILLS PUBLIC SCHOOLS	FHPS - OPERATING	225-110	000	469,714.34
02/09/2018	GENS	4414(A)	FHPS 1723	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST DEBT	225-111	000	101.11
02/09/2018	GENS	4414(A)	FHPS 1723	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST OPER	225-111	000	14.65
02/09/2018	GENS	4414(A)	FHPS 1723	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST REC	225-111	000	13.29
02/09/2018	GENS	4414(A)	FHPS 1723	FOREST HILLS PUBLIC SCHOOLS	FHPS - DEBT	225-120	000	300,138.80
02/09/2018	GENS	4414(A)	FHPS 1723	FOREST HILLS PUBLIC SCHOOLS	FHPS - RECREATION	225-130	000	39,491.04
02/09/2018	GENS	4414(A)	FHPS 1723	FOREST HILLS PUBLIC SCHOOLS	FHPS - IFT DEBT	225-220	000	235.98
02/09/2018	GENS	4414(A)	FHPS 1723	FOREST HILLS PUBLIC SCHOOLS	FHPS - IFT RECREATION	225-230	000	31.05
CHECK GENS 4414(A) TOTAL FOR FUND 703:								809,740.26
02/09/2018	GENS	4415(A)	GRCC 1723	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES	235-110	000	1,084.55
02/09/2018	GENS	4415(A)	GRCC 1723	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES INTEREST	235-111	000	47.30
CHECK GENS 4415(A) TOTAL FOR FUND 703:								1,131.85
02/09/2018	GENS	4418(A)	KC 1723	KENT COUNTY TREASURER	KENT COUNTY - OPERATING	222-110	000	2,609.79
02/09/2018	GENS	4418(A)	KC 1723	KENT COUNTY TREASURER	KENT COUNTY - INTEREST	222-111	000	113.83
02/09/2018	GENS	4418(A)	KC 1723	KENT COUNTY TREASURER	KENT COUNTY - JAIL	222-160	000	77,818.56
02/09/2018	GENS	4418(A)	KC 1723	KENT COUNTY TREASURER	KENT COUNTY - ZOO/MUSEUM	222-165	000	43,379.24
02/09/2018	GENS	4418(A)	KC 1723	KENT COUNTY TREASURER	KENT COUNTY - SENIOR	222-170	000	49,290.69
02/09/2018	GENS	4418(A)	KC 1723	KENT COUNTY TREASURER	KENT COUNTY - VETERAN'S MILLAGE	222-172	000	4,919.46
02/09/2018	GENS	4418(A)	KC 1723	KENT COUNTY TREASURER	KENT COUNTY - IFT JAIL	222-260	000	660.56
02/09/2018	GENS	4418(A)	KC 1723	KENT COUNTY TREASURER	KENT COUNTY - IFT ZOO/MUSEUM	222-265	000	368.21
02/09/2018	GENS	4418(A)	KC 1723	KENT COUNTY TREASURER	KENT COUNTY - IFT SENIOR	222-270	000	418.40
02/09/2018	GENS	4418(A)	KC 1723	KENT COUNTY TREASURER	KENT COUNTY - IFT VETERAN'S MILLAGE	222-272	000	41.75
CHECK GENS 4418(A) TOTAL FOR FUND 703:								179,620.49
02/09/2018	GENS	4419(A)	SET 1723	KENT COUNTY TREASURER-SET	KENT COUNTY - INTEREST FHPS	222-111	000	159.56
02/09/2018	GENS	4419(A)	SET 1723	KENT COUNTY TREASURER-SET	FHPS SET & OPERATING TAX (COUNTY)	228-001	000	3,658.35
CHECK GENS 4419(A) TOTAL FOR FUND 703:								3,817.91

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02/09/2018	GENS	4420(A)	KISD 1723	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES	234-110	000	3,456.75
02/09/2018	GENS	4420(A)	KISD 1723	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES INTEREST	234-111	000	150.76
					CHECK GENS 4420(A) TOTAL FOR FUND 703:			3,607.51
02/09/2018	GENS	4421(A)	LOW 1723	LOWELL AREA SCHOOLS	LOWELL - OPERATING	226-110	000	5,324.69
02/09/2018	GENS	4421(A)	LOW 1723	LOWELL AREA SCHOOLS	LOWELL - DEBT	226-120	000	7,036.67
02/09/2018	GENS	4421(A)	LOW 1723	LOWELL AREA SCHOOLS	LOWELL BLDG/SITE	226-130	000	992.46
					CHECK GENS 4421(A) TOTAL FOR FUND 703:			13,353.82
02/15/2018	GENS	67121	MTT17-2421S	CASCADE COMMONS LLC	DUE TO MTT #17-002421	275-000	000	14,267.66
02/15/2018	GENS	67122	MTT17-2421W	CASCADE COMMONS LLC	DUE TO MTT 17-002421 WINTER TAX	275-000	000	9,138.17
02/15/2018	GENS	67123	RFD08324051	GLOVER SUSAN	DUE TO 41-19-08-324-052	275-000	000	18.00
02/15/2018	GENS	67132	FIRE 1724	CASCADE CHARTER TOWNSHIP	CCT - FIRE	214-115	000	192,757.28
02/15/2018	GENS	67132	FIRE 1724	CASCADE CHARTER TOWNSHIP	CCT - FIRE PP	214-115	000	17,042.45
02/15/2018	GENS	67132	FIRE 1724	CASCADE CHARTER TOWNSHIP	CCT - IFT FIRE	214-215	000	8,555.74
					CHECK GENS 67132 TOTAL FOR FUND 703:			218,355.47
02/15/2018	GENS	67133	GF 1724	CASCADE CHARTER TWP	CCT - OPERATING TAXES	214-110	000	142,398.21
02/15/2018	GENS	67133	GF 1724	CASCADE CHARTER TWP	CCT - OPERATING TAXES PP	214-110	000	12,589.91
02/15/2018	GENS	67133	GF 1724	CASCADE CHARTER TWP	CCT - OVER/SHORT	214-112	000	(3,514)
02/15/2018	GENS	67133	GF 1724	CASCADE CHARTER TWP	CCT - STREET LIGHTS	214-140	000	5,312.51
02/15/2018	GENS	67133	GF 1724	CASCADE CHARTER TWP	CCT - ADMIN	214-155	000	27,399.03
02/15/2018	GENS	67133	GF 1724	CASCADE CHARTER TWP	CCT - IFT OPERATING TAXES	214-210	000	6,320.51
					CHECK GENS 67133 TOTAL FOR FUND 703:			194,016.23
02/15/2018	GENS	67134	LIB 1724	LIBRARY FUND	CCT - LIBRARY PP	214-120	000	1,943.61
02/15/2018	GENS	67134	LIB 1724	LIBRARY FUND	CCT - LIBRARY	214-120	000	21,981.88
02/15/2018	GENS	67134	LIB 1724	LIBRARY FUND	CCT-IFT LIBRARY	214-220	000	975.72
					CHECK GENS 67134 TOTAL FOR FUND 703:			24,901.21
02/15/2018	GENS	67135	OS 1724	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE	214-116	000	33,707.05
02/15/2018	GENS	67135	OS 1724	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE PP	214-116	000	2,980.18
02/15/2018	GENS	67135	OS 1724	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE IFT	214-216	000	1,496.15
					CHECK GENS 67135 TOTAL FOR FUND 703:			38,183.38
02/15/2018	GENS	67136	PATH 1724	PATHWAYS FUND	CCT-PATHWAYS	214-100	000	58,402.84
02/15/2018	GENS	67136	PATH 1724	PATHWAYS FUND	CCT-PATHWAYS PP	214-100	000	5,163.49
02/15/2018	GENS	67136	PATH 1724	PATHWAYS FUND	CCT - IFT PATHWAYS	214-200	000	2,592.30
					CHECK GENS 67136 TOTAL FOR FUND 703:			66,158.63
02/15/2018	GENS	67137	POL 1724	POLICE FUND	CCT-POLICE	214-105	000	67,284.56
02/15/2018	GENS	67137	POL 1724	POLICE FUND	CCT-POLICE PP	214-105	000	5,948.79
02/15/2018	GENS	67137	POL 1724	POLICE FUND	CCT - IFT POLICE	214-205	000	2,986.53
					CHECK GENS 67137 TOTAL FOR FUND 703:			76,219.88
02/15/2018	GENS	67138	SA 1724	CASCADE CHARTER TOWNSHIP	CCT- SP ASSM 41-19-15-351-009	214-135	000	306.48
02/15/2018	GENS	67140	KDL 1724	KENT DISTRICT LIBRARY	KDL - TAXES	223-110	000	203,769.80
02/15/2018	GENS	67140	KDL 1724	KENT DISTRICT LIBRARY	KDL - IFT TAXES	223-210	000	8,309.86
					CHECK GENS 67140 TOTAL FOR FUND 703:			212,079.66
02/15/2018	GENS	67141	MI 1724	STATE OF MICHIGAN	IFT SET & OPER TAX CALED OPER	228-201	000	44,394.24
02/15/2018	GENS	67141	MI 1724	STATE OF MICHIGAN	IFT SET & OPER TAX FHPS OPER	228-201	000	9,501.32
					CHECK GENS 67141 TOTAL FOR FUND 703:			53,895.56

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02/16/2018	GENS	4432(A)	CAL 1724	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - OPERATING	225-410	000	140,809.90
02/16/2018	GENS	4433(A)	CALD 1724	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - DEBT	225-420	000	76,709.97
02/16/2018	GENS	4433(A)	CALD 1724	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - IFT DEBT	225-520	000	17,409.50
					CHECK GENS 4433(A) TOTAL FOR FUND 703:			94,119.47
02/16/2018	GENS	4434(A)	FHPS 1724	FOREST HILLS PUBLIC SCHOOLS	FHPS - OPERATING	225-110	000	734,433.42
02/16/2018	GENS	4434(A)	FHPS 1724	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST DEBT	225-111	000	352.67
02/16/2018	GENS	4434(A)	FHPS 1724	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST OPER	225-111	000	726.84
02/16/2018	GENS	4434(A)	FHPS 1724	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST REC	225-111	000	46.40
02/16/2018	GENS	4434(A)	FHPS 1724	FOREST HILLS PUBLIC SCHOOLS	FHPS - DEBT	225-120	000	517,352.69
02/16/2018	GENS	4434(A)	FHPS 1724	FOREST HILLS PUBLIC SCHOOLS	FHPS - RECREATION	225-130	000	68,070.97
02/16/2018	GENS	4434(A)	FHPS 1724	FOREST HILLS PUBLIC SCHOOLS	FHPS - IFT DEBT	225-220	000	5,818.56
02/16/2018	GENS	4434(A)	FHPS 1724	FOREST HILLS PUBLIC SCHOOLS	FHPS - IFT RECREATION	225-230	000	765.57
					CHECK GENS 4434(A) TOTAL FOR FUND 703:			1,327,567.12
02/16/2018	GENS	4435(A)	GRCC 1724	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES	235-110	000	1,874.24
02/16/2018	GENS	4435(A)	GRCC 1724	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES INTEREST	235-111	000	165.09
					CHECK GENS 4435(A) TOTAL FOR FUND 703:			2,039.33
02/16/2018	GENS	4436(A)	KC 1724	KENT COUNTY TREASURER	KENT COUNTY - OPERATING	222-110	000	4,509.93
02/16/2018	GENS	4436(A)	KC 1724	KENT COUNTY TREASURER	KENT COUNTY - INTEREST	222-111	000	397.24
02/16/2018	GENS	4436(A)	KC 1724	KENT COUNTY TREASURER	KENT COUNTY - JAIL	222-160	000	125,365.15
02/16/2018	GENS	4436(A)	KC 1724	KENT COUNTY TREASURER	KENT COUNTY - ZOO/MUSEUM	222-165	000	69,883.50
02/16/2018	GENS	4436(A)	KC 1724	KENT COUNTY TREASURER	KENT COUNTY - SENIOR	222-170	000	79,407.07
02/16/2018	GENS	4436(A)	KC 1724	KENT COUNTY TREASURER	KENT COUNTY - VETERAN'S MILLAGE	222-172	000	7,925.17
02/16/2018	GENS	4436(A)	KC 1724	KENT COUNTY TREASURER	KENT COUNTY - IFT JAIL	222-260	000	5,112.46
02/16/2018	GENS	4436(A)	KC 1724	KENT COUNTY TREASURER	KENT COUNTY - IFT ZOO/MUSEUM	222-265	000	2,849.89
02/16/2018	GENS	4436(A)	KC 1724	KENT COUNTY TREASURER	KENT COUNTY - IFT SENIOR	222-270	000	3,238.29
02/16/2018	GENS	4436(A)	KC 1724	KENT COUNTY TREASURER	KENT COUNTY - IFT VETERAN'S MILLAGE	222-272	000	323.23
					CHECK GENS 4436(A) TOTAL FOR FUND 703:			299,011.93
02/16/2018	GENS	4437(A)	SET 1724	KENT COUNTY TREASURER-SET	KENT COUNTY - INTEREST FHPS	222-111	000	556.83
02/16/2018	GENS	4437(A)	SET 1724	KENT COUNTY TREASURER-SET	FHPS SET & OPERATING TAX (COUNTY)	228-001	000	6,321.91
					CHECK GENS 4437(A) TOTAL FOR FUND 703:			6,878.74
02/16/2018	GENS	4438(A)	KISD 1724	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES	234-110	000	5,973.56
02/16/2018	GENS	4438(A)	KISD 1724	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES INTEREST	234-111	000	526.16
					CHECK GENS 4438(A) TOTAL FOR FUND 703:			6,499.72
02/16/2018	GENS	4439(A)	LOW 1724	LOWELL AREA SCHOOLS	LOWELL - OPERATING	226-110	000	320.70
02/16/2018	GENS	4439(A)	LOW 1724	LOWELL AREA SCHOOLS	LOWELL - DEBT	226-120	000	8,791.95
02/16/2018	GENS	4439(A)	LOW 1724	LOWELL AREA SCHOOLS	LOWELL BLDG/SITE	226-130	000	1,240.04
					CHECK GENS 4439(A) TOTAL FOR FUND 703:			10,352.69
02/22/2018	GENS	67152	DDA 1725	CASCADE CHARTER TOWNSHIP	CCT-PATHWAYS	214-100	000	23,609.45
02/22/2018	GENS	67152	DDA 1725	CASCADE CHARTER TOWNSHIP	CCT-POLICE	214-105	000	27,199.74
02/22/2018	GENS	67152	DDA 1725	CASCADE CHARTER TOWNSHIP	CCT - OPERATING TAXES	214-110	000	57,563.22
02/22/2018	GENS	67152	DDA 1725	CASCADE CHARTER TOWNSHIP	CCT - FIRE	214-115	000	77,920.07
02/22/2018	GENS	67152	DDA 1725	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE	214-116	000	13,626.53
02/22/2018	GENS	67152	DDA 1725	CASCADE CHARTER TOWNSHIP	CCT - LIBRARY	214-120	000	8,886.86
02/22/2018	GENS	67152	DDA 1725	CASCADE CHARTER TOWNSHIP	KENT COUNTY - OPERATING	222-110	000	(?,212.41)
02/22/2018	GENS	67152	DDA 1725	CASCADE CHARTER TOWNSHIP	KENT COUNTY - JAIL	222-160	000	46,561.27
02/22/2018	GENS	67152	DDA 1725	CASCADE CHARTER TOWNSHIP	KENT COUNTY - ZOO/MUSEUM	222-165	000	25,955.58
02/22/2018	GENS	67152	DDA 1725	CASCADE CHARTER TOWNSHIP	KENT COUNTY - SENIOR	222-170	000	29,492.56
02/22/2018	GENS	67152	DDA 1725	CASCADE CHARTER TOWNSHIP	KENT COUNTY - VETERAN'S MILLAGE	222-172	000	2,944.52
02/22/2018	GENS	67152	DDA 1725	CASCADE CHARTER TOWNSHIP	KDL - TAXES	223-110	000	75,834.62
02/22/2018	GENS	67152	DDA 1725	CASCADE CHARTER TOWNSHIP	GRCC - TAXES	235-110	000	(513.43)
					CHECK GENS 67152 TOTAL FOR FUND 703:			386,462.58
02/22/2018	GENS	67169	RFD03103002	ARGENZIO DAVID & LAURA TRUST	DUE TO 41-19-03-103-002	275-000	000	1,913.25

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02/22/2018	GENS	67170	RFD17-260-056	LIPPERT CHARLES & JANET	DUE TO 41-19-17-260-056	275-000	000	20.00
02/22/2018	GENS	67171	RFD19100033	HETU PROPERTIES LLC	DUE TO 41-19-18-300-020	275-000	000	90.00
02/22/2018	GENS	67183	FIRE 1725	CASCADE CHARTER TOWNSHIP	CCT-INTEREST & PENALTY	214-111	000	41.68
02/22/2018	GENS	67183	FIRE 1725	CASCADE CHARTER TOWNSHIP	CCT - FIRE	214-115	000	323,769.90
02/22/2018	GENS	67183	FIRE 1725	CASCADE CHARTER TOWNSHIP	CCT - FIRE DDA CAPTURE	214-115	000	(77,920.07)
02/22/2018	GENS	67183	FIRE 1725	CASCADE CHARTER TOWNSHIP	CCT - FIRE PP	214-115	000	26,036.78
02/22/2018	GENS	67183	FIRE 1725	CASCADE CHARTER TOWNSHIP	CCT - IFT FIRE	214-215	000	1,430.77
					CHECK GENS 67183 TOTAL FOR FUND 703:			273,359.06
02/22/2018	GENS	67184	GF 1725	CASCADE CHARTER TWP	CCT - OPER DDA CAPTURE	214-110	000	(57,569.22)
02/22/2018	GENS	67184	GF 1725	CASCADE CHARTER TWP	CCT - OPERATING TAXES	214-110	000	239,182.40
02/22/2018	GENS	67184	GF 1725	CASCADE CHARTER TWP	CCT - OPERATING TAXES PP	214-110	000	19,234.41
02/22/2018	GENS	67184	GF 1725	CASCADE CHARTER TWP	CCT-INTEREST & PENALTY	214-111	000	1,215.19
02/22/2018	GENS	67184	GF 1725	CASCADE CHARTER TWP	CCT - OVER/SHORT	214-112	000	0.51
02/22/2018	GENS	67184	GF 1725	CASCADE CHARTER TWP	CCT - STREET LIGHTS	214-140	000	9,984.74
02/22/2018	GENS	67184	GF 1725	CASCADE CHARTER TWP	CCT - ADMIN	214-155	000	38,753.25
02/22/2018	GENS	67184	GF 1725	CASCADE CHARTER TWP	CCT - IFT OPERATING TAXES	214-210	000	1,056.95
					CHECK GENS 67184 TOTAL FOR FUND 703:			251,864.23
02/22/2018	GENS	67185	LIB 1725	LIBRARY FUND	CCT-INTEREST & PENALTY	214-111	000	4.75
02/22/2018	GENS	67185	LIB 1725	LIBRARY FUND	CCT - LIBRARY PP	214-120	000	2,969.33
02/22/2018	GENS	67185	LIB 1725	LIBRARY FUND	CCT - LIBRARY DDA CAPTURE	214-120	000	(8,885.86)
02/22/2018	GENS	67185	LIB 1725	LIBRARY FUND	CCT - LIBRARY	214-120	000	36,921.11
02/22/2018	GENS	67185	LIB 1725	LIBRARY FUND	CCT-IFT LIBRARY	214-220	000	163.14
					CHECK GENS 67185 TOTAL FOR FUND 703:			31,171.47
02/22/2018	GENS	67186	OS 1725	CASCADE CHARTER TOWNSHIP	CCT-INTEREST & PENALTY	214-111	000	7.29
02/22/2018	GENS	67186	OS 1725	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE DDA CAPTURE	214-116	000	(13,526.57)
02/22/2018	GENS	67186	OS 1725	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE	214-116	000	56,615.22
02/22/2018	GENS	67186	OS 1725	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE PP	214-116	000	4,552.89
02/22/2018	GENS	67186	OS 1725	CASCADE CHARTER TOWNSHIP	CCT OPEN SPACE IFT	214-216	000	250.15
					CHECK GENS 67186 TOTAL FOR FUND 703:			47,799.02
02/22/2018	GENS	67187	PATH 1725	PATHWAYS FUND	CCT-PATHWAYS	214-100	000	98,096.49
02/22/2018	GENS	67187	PATH 1725	PATHWAYS FUND	CCT-PATHWAYS PP	214-100	000	7,888.61
02/22/2018	GENS	67187	PATH 1725	PATHWAYS FUND	CCT-PATHWAYS DDA CAPTURE	214-100	000	(23,609.45)
02/22/2018	GENS	67187	PATH 1725	PATHWAYS FUND	CCT-INTEREST & PENALTY	214-111	000	12.64
02/22/2018	GENS	67187	PATH 1725	PATHWAYS FUND	CCT - IFT PATHWAYS	214-200	000	433.48
					CHECK GENS 67187 TOTAL FOR FUND 703:			82,821.77
02/22/2018	GENS	67188	POL 1725	POLICE FUND	CCT-POLICE	214-105	000	113,015.15
02/22/2018	GENS	67188	POL 1725	POLICE FUND	CCT-POLICE PP	214-105	000	9,088.35
02/22/2018	GENS	67188	POL 1725	POLICE FUND	POLICE DDA CAPTURE	214-105	000	(7,159.74)
02/22/2018	GENS	67188	POL 1725	POLICE FUND	CCT-INTEREST & PENALTY	214-111	000	14.54
02/22/2018	GENS	67188	POL 1725	POLICE FUND	CCT - IFT POLICE	214-205	000	499.41
					CHECK GENS 67188 TOTAL FOR FUND 703:			95,417.71
02/22/2018	GENS	67189	SA 1725	CASCADE CHARTER TOWNSHIP	CCT- SPECIAL ASSES 41-19-22-202-012	214-135	000	67.71
02/22/2018	GENS	67191	KDL 1725	KENT DISTRICT LIBRARY	KDL - TAXES	223-110	000	339,752.82
02/22/2018	GENS	67191	KDL 1725	KENT DISTRICT LIBRARY	KDL - DDA CAPTURE	223-110	000	(75,834.62)
02/22/2018	GENS	67191	KDL 1725	KENT DISTRICT LIBRARY	KDL - TAX INTEREST	223-111	000	40.47
02/22/2018	GENS	67191	KDL 1725	KENT DISTRICT LIBRARY	KDL - IFT TAXES	223-210	000	1,389.64
					CHECK GENS 67191 TOTAL FOR FUND 703:			265,348.31
02/22/2018	GENS	67192	MI 1725	STATE OF MICHIGAN	IFT SET & OPER TAX CALED OPER	228-201	000	2,294.65
02/22/2018	GENS	67192	MI 1725	STATE OF MICHIGAN	IFT SET & OPER TAX FHPS OPER	228-201	000	216.53

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CHECK GENS 67192 TOTAL FOR FUND 703:								2,511.18
02/23/2018	GENS	4449(A)	CAL 1725	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - OPERATING	225-410	000	315,187.79
02/23/2018	GENS	4449(A)	CAL 1725	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - INTEREST OPER	225-411	000	75.38
CHECK GENS 4449(A) TOTAL FOR FUND 703:								315,263.17
02/23/2018	GENS	4450(A)	CALD 1725	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - INTEREST	225-411	000	62.04
02/23/2018	GENS	4450(A)	CALD 1725	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - DEBT	225-420	000	180,980.65
02/23/2018	GENS	4450(A)	CALD 1725	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - IFT DEBT	225-520	000	2,212.19
CHECK GENS 4450(A) TOTAL FOR FUND 703:								183,254.88
02/23/2018	GENS	4451(A)	FHPS 1725	FOREST HILLS PUBLIC SCHOOLS	FHPS - OPERATING	225-110	000	634,299.64
02/23/2018	GENS	4451(A)	FHPS 1725	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST DEBT	225-111	000	251.38
02/23/2018	GENS	4451(A)	FHPS 1725	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST OPER	225-111	000	85.60
02/23/2018	GENS	4451(A)	FHPS 1725	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST REC	225-111	000	33.08
02/23/2018	GENS	4451(A)	FHPS 1725	FOREST HILLS PUBLIC SCHOOLS	FHPS - DEBT	225-120	000	816,444.93
02/23/2018	GENS	4451(A)	FHPS 1725	FOREST HILLS PUBLIC SCHOOLS	FHPS - RECREATION	225-130	000	105,277.19
02/23/2018	GENS	4451(A)	FHPS 1725	FOREST HILLS PUBLIC SCHOOLS	FHPS - IFT DEBT	225-220	000	1,290.32
02/23/2018	GENS	4451(A)	FHPS 1725	FOREST HILLS PUBLIC SCHOOLS	FHPS - IFT RECREATION	225-230	000	227.90
CHECK GENS 4451(A) TOTAL FOR FUND 703:								1,557,910.04
02/23/2018	GENS	4452(A)	GRCC 1725	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - DDA SUMMER CAPTURE REFUND	235-110	000	919.43
02/23/2018	GENS	4452(A)	GRCC 1725	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES	235-110	000	2,105.97
02/23/2018	GENS	4452(A)	GRCC 1725	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES INTEREST	235-111	000	92.84
CHECK GENS 4452(A) TOTAL FOR FUND 703:								3,118.24
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - OPERATING	222-110	000	5,067.65
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - DDA CAPTURE OPER REFUND	222-110	000	2,212.41
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - INTEREST	222-111	000	279.56
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - JAIL	222-160	000	209,024.98
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - JAIL DDA CAPTURE	222-160	000	(46,561.07)
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - ZOO/MUSEUM DDA CAPTURE	222-165	000	(25,955.58)
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - ZOO/MUSEUM	222-165	000	116,517.97
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - SENIOR	222-170	000	132,396.65
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - SENIOR DDA CAPTURE	222-170	000	(29,492.85)
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - VETERAN'S DDA CAPTURE	222-172	000	(2,514.52)
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - VETERAN'S MILLAGE	222-172	000	13,212.47
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - IFT JAIL	222-260	000	854.91
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - IFT ZOO/MUSEUM	222-265	000	476.56
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - IFT SENIOR	222-270	000	541.50
02/23/2018	GENS	4454(A)	KC 1725	KENT COUNTY TREASURER	KENT COUNTY - IFT VETERAN'S MILLAGE	222-272	000	54.01
CHECK GENS 4454(A) TOTAL FOR FUND 703:								375,684.74
02/23/2018	GENS	4455(A)	SET 1725	KENT COUNTY TREASURER-SET	KENT COUNTY - INTEREST CALEDONIA	222-111	000	100.87
02/23/2018	GENS	4455(A)	SET 1725	KENT COUNTY TREASURER-SET	KENT COUNTY - INTEREST FHPS	222-111	000	140.30
02/23/2018	GENS	4455(A)	SET 1725	KENT COUNTY TREASURER-SET	CALEDONIA SET & OPERATING TAX (COUNTY)	228-001	000	1,681.11
02/23/2018	GENS	4455(A)	SET 1725	KENT COUNTY TREASURER-SET	FHPS SET & OPERATING TAX (COUNTY)	228-001	000	3,506.21
02/23/2018	GENS	4455(A)	SET 1725	KENT COUNTY TREASURER-SET	LOWELL SET & OPERATING TAX (COUNTY)	228-001	000	716.40
CHECK GENS 4455(A) TOTAL FOR FUND 703:								6,144.89
02/23/2018	GENS	4456(A)	KISD 1725	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES	234-110	000	6,712.31
02/23/2018	GENS	4456(A)	KISD 1725	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES INTEREST	234-111	000	295.92
CHECK GENS 4456(A) TOTAL FOR FUND 703:								7,008.23
02/23/2018	GENS	4457(A)	LOW 1725	LOWELL AREA SCHOOLS	LOWELL - OPERATING	226-110	000	12,767.60
02/23/2018	GENS	4457(A)	LOW 1725	LOWELL AREA SCHOOLS	LOWELL - DEBT	226-120	000	17,110.83
02/23/2018	GENS	4457(A)	LOW 1725	LOWELL AREA SCHOOLS	LOWELL BLDG/SITE	226-130	000	2,413.36
CHECK GENS 4457(A) TOTAL FOR FUND 703:								32,291.79
Total for department 000:								9,168,819.28
Total for fund 703 CURRENT TAX COLLECTION FUND								9,168,819.28
TOTAL - ALL FUNDS								10,038,713.97

\*#-INDICATES CHECK DISTRIBUTED TO MORE THAN ONE FUND

03/06/2018

CHECK DISBURSEMENT REPORT FOR CASCADE CHARTER TOWNSHIP  
CHECK DATE FROM 02/01/2018 - 02/28/2018  
FEBRUARY 2018 PAYABLES, PAYROLL, AND TRANSFERS

Check Date	Bank	Check #	Invoice	Payee	Description	Account	Dept	Amount
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#-INDICATES CHECK DISTRIBUTED TO MORE THAN ONE DEPARTMENT

Transactions Log for Payroll Deductions  
MONTH ENDING: FEBRUARY 2018

**Direct Deposit**

Date Submitted	<u>2.6.18</u>	Transaction#	<u>746443990</u>	Amount	<u>70,606.89</u>
Date Submitted	<u>2.20.18</u>	Transaction#	<u>3323824434</u>	Amount	<u>71,380.86.</u>
Date Submitted	<u>2.21.18</u>	Transaction#	<u>3675672627</u>	Amount	<u>768.74</u>

**Deferred Comp**

Date Submitted	<u>2.6.18</u>	Transaction#	_____	Amount	<u>1243.51</u>
Date Submitted	<u>2.20.18</u>	Transaction#	_____	Amount	<u>1243.51</u>
Date Submitted	_____	Transaction#	_____	Amount	_____

**Payroll Taxes**

Date Submitted	<u>2.6.18</u>	Transaction#	<u>44932842</u>	Amount	<u>30,820.84</u>
Date Submitted	<u>2.20.18</u>	Transaction#	<u>02905082</u>	Amount	<u>27,228.84</u>
Date Submitted	<u>2.21.18</u>	Transaction#	<u>61164508</u>	Amount	<u>223.54</u>

**HSA**

Date Submitted	<u>2.6.18</u>	Transaction#	<u>3884844202</u>	Amount	<u>9070.06</u>
Date Submitted	<u>2.16.18</u>	Transaction#	<u>3905626388</u>	Amount	<u>50.00</u>
Date Submitted	<u>2.20.18</u>	Transaction#	<u>689761872</u>	Amount	<u>2763.00</u>

**ICMA RC**

Date Submitted	<u>2.6.18</u>	Transaction#	<u>2773706141</u>	Amount	<u>541.00</u>
Date Submitted	<u>2.20.18</u>	Transaction#	<u>2609444518</u>	Amount	<u>541.00</u>
Date Submitted	_____	Transaction#	_____	Amount	_____

**MERS**

Date Submitted	<u>2.21.18</u>	Transaction#	<u>00079534.2</u>	Amount	<u>34,798.04</u>
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**Monthly Check Register - Gross**

Date Submitted	<u>2.20.18</u>	Amount	<u>364,661.75,</u>
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Clerk's Office  
Date 2.21.18

FINANCIAL REPORTS  
GENERAL / SPECIAL FUNDS  
DECEMBER 2017  
PRE-AUDIT

FUND NAME	FUND BALANCE	LIABILITIES LONG TERM DEBT	BOND FINAL PAYMENT	CALLABLE DATE	CURRENT INTEREST RATE
GENERAL FUND - 101 UNASSIGNED	\$8,723,232.53				
GENERAL FUND - 101 COMMITTED	\$ 974,543.00				
NONSPENDABLE	\$ 13,092.33				
<b>GENERAL FUND BALANCE</b>	<b>\$9,710,867.86</b>				
FIRE FUND - 206 RESTRICTED	\$1,694,907.89				
FIRE FND - COMMITTED	\$ 858,000.00				
NONSPENDABLE					
<b>FIRE FUND BALANCE</b>	<b>\$2,552,907.89</b>				
POLICE FUND - 207 RESTRICTED	\$1,073,174.05				
POLICE FUND - 207 COMMITTED	\$230,000.00				
<b>POLICE FUND BALANCE</b>	<b>\$1,303,174.05</b>				
<b>HAZMAT FUND - 208 RESTRICTED</b>	<b>\$33,619.81</b>				
CCT OPEN SPACE FUND - 209 RESTRICTED	\$237,552.00	2017 \$	3,090,536.57	2028	1.94
CCT OPEN SPACE FUND - 209 COMMITTED	\$116,000.00				
AUGUST HOMEYER - 209 COMMITTED	\$ 355,964.21 **				
<b>CCT OPEN SPACE FUND BALANCE</b>	<b>\$709,516.21</b>				
DAM MAJOR REPAIR FUND - 211 RESTRICTED	\$357,053.27				
DAM MAJOR REPAIR FUND - 211 COMMITTED	\$250,000.00				
<b>DAM MAJOR REPAIR FUND BALANCE</b>	<b>\$607,053.27</b>				
PATHWAYS FUND - 216 RESTRICTED	\$948,512.76				
PATHWAYS FUND - 216 COMMITTED	\$ 200,000.00	REF/2012	\$0.00	pd 20/2017	2.05
<b>PATHWAYS FUND BALANCE</b>	<b>\$1,148,512.76</b>	TOTAL	<b>\$0.00</b>		
IMPROVEMENT REVOLVING FUND	\$1,161,076.73	REF 2012 \$	-	pd 10/2017	2.05
		TOTAL \$	-		
DDA FUND - 248 RESTRICTED	\$ 695,207.83	REF/2010	\$321,331.00	2020	3.05
BUILDING INSP FUND - 249 RESTRICTED	\$2,889,507.66				
BUILDING INSP FUND - 249 NONSPENDABLE	\$9,445.32				
<b>BUILDING INSP FUND BALANCE</b>	<b>\$2,898,952.98</b>				
LIBRARY FUND - 270 RESTRICTED	\$1,434,306.64				
LIBRARY FUND - 270 COMMITTED	\$ 595,000.00				
<b>LIBRARY FUND BALANCE</b>	<b>\$2,029,306.64</b>				
<b>TOTAL ALL FUNDS</b>	<b>\$22,850,196.03</b>	<b>\$</b>	<b>3,411,867.57</b>		
TRUST AND AGENCY FUNDS					
CEMETERY TRUST FUND - 151 UNSPENDABLE	\$100,248.75				
CEMETERY TRUST FUND - 151 (COMMITTED)	\$5,000.00				
<b>TOTAL CEMETERY TRUST FUND</b>	<b>\$105,248.75</b>				
TRUST & AGENCY FUND -701	225,118.45				
TAX FUND - 703	4,544,544.38				
<b>TOTAL TRUST &amp; AGENCY</b>	<b>\$4,874,911.58</b>				

\*\* A portion of A Homeyer balance has not been committed by Board as of statement date.\*\*

Printed 3/6/2018

FOR DETAILS OF COMMITTED FUNDS SEE BALANCE SHEET OF EACH FUND

4:10 PM

BOARD RESOLUTION 104-2012

REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED	ENCUMBERED	% BGDG
		12/31/2016	ORIGINAL	AMENDED	BUDGET	12/31/2017	MONTH 12/31/17			
		NORM (ABNORM)	BUDGET	AMENDED	BUDGET	NORM (ABNORM)	INCR (DECR)	AVAIL BALANCE	YEAR-TO-DATE	USED
Fund 101 - GENERAL FUND										
Revenues										
Dept 000										
101-000-401-401	GENERAL PROPERTY TAXES	1,220,469.36	1,250,075.00	1,252,157.00		1,252,151.64	(5.74)	5.36	0.00	100.00
101-000-401-405	STREETLIGHT	68,798.76	63,000.00	63,000.00		62,185.45	0.00	814.55	0.00	98.71
101-000-401-410	PERSONAL PROPERTY TAX	122,689.73	97,365.00	97,365.00		95,727.84	0.00	1,637.16	0.00	98.32
101-000-401-420	DELINQUENT TAXES	15,462.89	10,000.00	10,000.00		9,001.44	55.82	998.56	0.00	90.01
101-000-401-437	ABATEMENT TAXES	12,055.06	6,270.00	6,481.00		6,481.00	0.00	0.00	0.00	100.00
101-000-401-441	COMMUNITY STABILIZATION SHARE TAX	0.00	25,575.00	83,216.00		83,215.90	(126,451.12)	0.10	0.00	100.00
101-000-401-445	INTEREST & PENALTIES ON TAXES	10,115.05	10,500.00	10,500.00		10,267.42	308.86	232.58	0.00	97.78
101-000-401-447	TAX ADMINISTRATION FEES	534,948.94	540,000.00	575,000.00		606,384.35	71,876.62	(31,384.35)	0.00	105.46
101-000-450-460	CABLE / FIBER OPTIC	376,966.34	352,000.00	352,000.00		381,007.34	87,516.37	(20,007.34)	0.00	108.24
101-000-450-465	CABLE - PEG FEES	82,683.95	75,000.00	75,000.00		58,465.79	19,225.40	16,534.21	0.00	77.95
101-000-450-480	SOIL EROSION PERMITS	25.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
101-000-450-490	DOG LICENSES	132.80	200.00	200.00		73.60	12.80	126.40	0.00	36.80
101-000-450-498	OTHER PERMITS	350.00	750.00	750.00		560.00	15.00	190.00	0.00	74.67
101-000-451-000	LIQUOR LICENSE	21,371.35	21,000.00	23,928.00		23,928.30	0.00	(0.30)	0.00	100.00
101-000-539-010	DEQ-SAW GRANT 2017	51,992.55	93,150.00	20,307.00		42,770.25	22,462.65	(22,662.25)	0.00	210.62
101-000-539-576	STATE SHARED REV.-SALES TAX	1,360,880.10	1,363,316.00	1,453,316.00		1,227,787.00	16,014.00	225,529.00	0.00	84.48
101-000-539-580	STATE SHARED REV-EVIP	7,557.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
101-000-539-581	PA 48 (METRO AUTHORITY) NOW STABILIZAT	16,744.65	15,500.00	15,500.00		15,565.41	0.00	(79.41)	0.00	100.42
101-000-600-608	PLANNING AND ZONING FEES	12,035.17	25,000.00	33,500.00		33,727.51	160.00	(227.51)	0.00	100.68
101-000-600-610	SUMMER TAX COLLECTION FEE	25,796.40	25,850.00	25,850.00		26,012.00	0.00	(162.00)	0.00	100.63
101-000-600-611	SEWER & WATER IMPLEMENTATION	15,608.00	21,000.00	35,000.00		36,567.95	36,265.00	(1,567.95)	0.00	104.48
101-000-600-614	PA 198 TAX APPLICATION FEE	5,516.00	2,000.00	2,000.00		2,776.43	1,000.00	(776.43)	0.00	138.82
101-000-600-626	PASSPORT APPLICATION FEE	18,640.00	20,000.00	20,000.00		22,275.00	1,800.00	(2,275.00)	0.00	111.38
101-000-600-634	CEMETERY-OPENINGS AND CLOSINGS	12,200.00	15,800.00	15,800.00		21,545.00	2,100.00	(5,745.00)	0.00	136.36
101-000-600-644	NSF FEES	0.00	100.00	100.00		0.00	0.00	100.00	0.00	0.00
101-000-600-647	YARD WASTE TAG FEE	2,019.00	2,000.00	2,000.00		1,382.00	0.00	618.00	0.00	69.10
101-000-600-648	SALE OF PRINTED MATERIAL	10.00	100.00	100.00		103.00	0.00	(3.00)	0.00	103.00
101-000-665-000	INTEREST ON INVESTMENTS	75,689.00	50,680.00	63,000.00		62,133.39	9,566.20	866.61	0.00	98.62
101-000-665-001	INTEREST TIMMONS FUND	197.18	75.00	75.00		235.42	61.82	(160.42)	0.00	313.89
101-000-665-002	DAM LEASE PAYMENTS	67,811.73	70,400.00	70,400.00		68,667.47	0.00	1,732.53	0.00	97.54
101-000-665-003	RENTAL OF FACILITIES	1,527.50	1,200.00	1,200.00		1,670.00	65.00	(470.30)	0.00	139.17
101-000-665-004	CELLULAR TOWERS	94,975.98	98,880.00	148,880.00		147,028.49	2,279.25	1,851.51	0.00	98.76
101-000-665-031	INTEREST ON INVESTMENT- WELLS FARGO	2,917.82	5,100.00	5,100.00		3,316.38	0.00	1,783.62	0.00	65.03
101-000-665-210	INT ON INVEST-GF COAMERICA 983 QRT JP	424.66	4,125.00	4,125.00		5,924.66	1,386.30	(1,799.63)	0.00	143.63
101-000-671-653	PARK INCOME	5,945.00	6,500.00	6,500.00		7,675.00	0.00	(1,175.00)	0.00	118.08
101-000-671-671	MISCELLANEOUS INCOME	11,142.17	4,000.00	22,000.00		21,321.15	304.12	678.85	0.00	96.91
101-000-671-675	DONATIONS	0.00	4,000.00	4,000.00		0.00	0.00	4,000.00	0.00	0.00
101-000-671-676	PARK DONATIONS	30,500.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
101-000-671-680	MISC INCOME - TRANSIT TICKETS	3,079.00	3,000.00	3,000.00		1,341.00	90.00	1,659.00	0.00	44.70
101-000-671-683	REIMBURSEMENTS/REFUNDS	14,748.55	1,000.00	1,000.00		15.36	38.00	984.64	0.00	1.54
101-000-673-000	SALE OF ASSETS	125.00	500.00	500.00		50.00	0.00	450.00	0.00	10.00
101-000-674-000	4TH OF JULY SPONSORS	16,200.00	18,000.00	18,000.00		13,550.00	0.00	4,450.00	0.00	75.28
101-000-674-200	HALLOWEEN SPONSORS	1,130.00	2,000.00	2,000.00		1,730.00	0.00	270.00	0.00	86.50
101-000-676-000	ELECTION REIMBURSEMENT	10,280.21	0.00	13,616.00		13,615.58	0.00	0.42	0.00	100.00
101-000-679-000	INTERFUND REIMBURSE/BLDG INSPECTION F	85,275.75	83,000.00	106,000.00		93,357.90	5,829.40	12,642.10	0.00	88.07
101-000-679-200	INTERFUND REIMBURSEMENT/LIBRARY	0.00	16,336.00	16,336.00		16,336.00	0.00	0.00	0.00	100.00
101-000-699-248	TRF FROM DDA	94,340.00	94,340.00	94,340.00		94,340.00	0.00	0.00	0.00	100.00
Total Dept 000		4,511,377.65	4,498,687.00	4,753,142.00		4,572,269.42	262,651.75	180,872.58	0.00	96.19
TOTAL REVENUES										
		4,511,377.65	4,498,687.00	4,753,142.00		4,572,269.42	262,651.75	180,872.58	0.00	96.19
Expenditures										
Dept 101 - TOWNSHIP BOARD										
101-101-703-000	TRUSTEE SALARIES	24,307.04	23,843.00	23,843.00		23,842.56	1,986.88	0.44	0.00	100.00
101-101-723-000	TOWNSHIP DUES	16,159.77	16,650.00	16,650.00		16,331.57	856.57	318.43	0.00	98.09
101-101-724-000	EDUCATION	0.00	1,700.00	1,700.00		0.00	0.00	1,700.00	0.00	0.00
101-101-860-000	TRUSTEE MILEAGE	0.00	250.00	250.00		0.00	0.00	250.00	0.00	0.00
101-101-862-500	TRUSTEE EXPENSE ACCOUNT	95.13	500.00	500.00		18.07	0.00	481.93	0.00	3.61
101-101-924-100	TRUSTEE CELL PHONES	835.79	900.00	900.00		705.43	64.13	194.57	0.00	78.38
101-101-981-000	TRUSTEE SMALL EQUIP AND FURNITURE	0.00	1,000.00	1,000.00		0.00	0.00	1,000.00	0.00	0.00
Total Dept 101 - TOWNSHIP BOARD		41,397.73	44,843.00	44,843.00		40,897.63	2,907.58	3,945.37	0.00	91.20
Dept 171 - SUPERVISOR/MANAGER										
101-171-703-000	SUPERVISOR SALARY	11,460.48	15,000.00	15,000.00		15,000.00	1,250.00	0.00	0.00	100.00
101-171-706-000	MANAGERS SALARY	105,572.82	105,795.00	105,795.00		108,595.26	8,507.34	(2,810.26)	0.00	102.65
101-171-723-000	SUP/MGR MEMBERSHIPS AND DUES	1,226.31	1,995.00	1,995.00		1,557.43	25.00	437.57	0.00	78.07
101-171-724-000	EDUCATION	210.52	4,800.00	4,800.00		3,333.08	32.00	1,466.92	0.00	69.44
101-171-725-100	TUITION REIMBURSEMENT	0.00	2,500.00	2,500.00		0.00	0.00	2,500.00	0.00	0.00
101-171-860-000	SUP/MGR/DEPT MILEAGE	3,319.24	3,600.00	3,600.00		3,544.24	1,179.30	55.76	0.00	98.45
101-171-862-500	SUPERVISOR EXPENSE ACCOUNT	122.68	500.00	500.00		188.91	82.52	311.09	0.00	37.78
101-171-862-550	MANAGER EXPENSE ACCOUNT	215.44	650.00	650.00		274.06	199.85	375.94	0.00	42.16

03/06/2018

REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED	ENCUMBERED	% BDGT
		12/31/2016	ORIGINAL BUDGET	2017 AMENDED BUDGET	12/31/2017	MONTH 12/31/17			
101-171-901-000	MANAGER PUBLICATIONS	0.00	500.00	500.00	124.00	25.00	376.00	0.00	24.80
101-171-925-000	MANAGER CELL PHONE	1,896.66	1,800.00	1,800.00	1,940.45	208.33	(140.45)	0.00	107.80
101-171-967-000	SPECIAL PROJECTS	0.00	15,000.00	15,000.00	0.00	0.00	15,000.00	0.00	0.00
101-171-981-000	SMALL EQUIPMENT/FURNITURE	1,380.68	1,000.00	1,000.00	14.99	0.00	985.01	0.00	1.50
Total Dept 171 - SUPERVISOR/MANAGER		125,404.83	153,140.00	153,140.00	134,572.42	11,509.34	18,567.58	0.00	87.88
Dept 215 - CLERK									
101-215-703-000	CLERK SALARY	10,505.44	11,702.00	11,702.00	11,701.20	975.10	0.80	0.00	99.99
101-215-704-000	DEPUTY CLERK	(1,010.56)	6,733.00	6,733.00	6,733.00	6,733.00	0.00	0.00	100.00
101-215-704-050	HR DIRECTOR	66,981.18	60,596.00	60,596.00	60,639.58	(1,509.80)	(13.58)	0.00	100.07
101-215-704-100	ADDITIONAL HELP/OVERTIME	934.38	2,500.00	2,500.00	0.00	0.00	2,500.00	0.00	0.00
101-215-723-000	CLERK MEMBERSHIPS AND DUES	340.00	650.00	650.00	509.00	120.00	141.00	0.00	78.31
101-215-724-000	EDUCATION	1,282.13	3,000.00	3,000.00	843.56	0.00	2,156.44	0.00	28.12
101-215-860-000	CLERK MILEAGE	778.69	1,000.00	1,000.00	560.10	0.00	439.90	0.00	56.01
101-215-862-500	CLERK'S EXPENSE ACCOUNT	35.79	100.00	100.00	0.00	0.00	100.00	0.00	0.00
101-215-925-000	CLERK CELL PHONE	1,139.75	1,200.00	1,200.00	702.77	82.07	497.23	0.00	58.56
101-215-981-000	SMALL EQUIPMENT/FURNITURE	2,116.68	1,300.00	1,300.00	0.00	0.00	1,300.00	0.00	0.00
Total Dept 215 - CLERK		83,103.48	88,781.00	88,781.00	81,689.21	6,400.31	7,091.79	0.00	92.01
Dept 253 - TREASURER									
101-253-703-000	TREASURER SALARY	11,460.48	11,702.00	11,702.00	11,701.20	975.10	0.80	0.00	99.99
101-253-707-000	DEPUTY TREASURER	57,969.62	53,240.00	53,240.00	53,289.20	(1,315.60)	(49.20)	0.00	100.09
101-253-707-050	ACCOUNT CLERK I	0.00	5,916.00	5,916.00	5,916.00	0.00	0.00	0.00	100.00
101-253-707-060	ACCOUNT CLERK II	46,960.64	47,928.00	47,928.00	47,954.40	3,171.60	(26.76)	0.00	100.06
101-253-707-100	ADDITIONAL HELP/OVERTIME	2,304.11	2,500.00	2,500.00	1,257.00	(207.00)	1,243.00	0.00	50.28
101-253-723-000	TREASURER MEMBERSHIPS AND DUES	585.00	600.00	600.00	585.00	100.00	15.00	0.00	97.50
101-253-724-000	EDUCATION	1,797.60	2,500.00	2,500.00	755.15	0.00	1,744.85	0.00	30.21
101-253-860-000	TREASURER MILEAGE	232.44	800.00	800.00	185.67	38.53	614.33	0.00	23.21
101-253-862-500	TREASURER'S EXPENSE ACCOUNT	60.11	300.00	300.00	0.00	0.00	300.00	0.00	0.00
101-253-924-100	TREASURER'S CELL PHONES	208.39	300.00	300.00	176.33	16.03	123.67	0.00	58.78
101-253-939-000	TREASURER SERVICE CONTRACTS	2,206.00	2,400.00	2,600.00	2,575.95	0.00	24.05	0.00	99.08
101-253-981-000	SMALL EQUIPMENT/FURNITURE	0.00	3,400.00	3,400.00	2,403.16	72.00	996.84	0.00	70.68
Total Dept 253 - TREASURER		123,784.39	131,586.00	131,786.00	126,799.06	9,252.66	4,986.94	0.00	96.22
Dept 257 - ASSESSING									
101-257-703-000	ASSESSOR	85,433.58	87,193.00	87,193.00	87,249.30	6,764.10	(56.30)	0.00	100.06
101-257-706-000	ASSESSING BOARD OF REVIEW EXPENSE	2,298.55	3,370.00	3,370.00	2,285.43	330.00	1,084.57	0.00	67.82
101-257-708-000	SR RESIDENTIAL APPRAISER JM/JG	60,847.77	65,000.00	65,000.00	65,048.75	5,048.75	(48.75)	0.00	100.08
101-257-708-500	RESIDENTIAL APPRAISER	44,403.32	47,667.00	47,667.00	47,702.07	3,702.39	(35.07)	0.00	100.07
101-257-723-000	ASSESSING MEMBERSHIPS AND DUES	1,735.00	1,639.00	1,639.00	1,509.00	0.00	130.00	0.00	92.07
101-257-724-000	EDUCATION	4,996.03	7,165.00	7,165.00	3,944.07	397.21	3,220.93	0.00	55.05
101-257-727-000	ASSESSING OFFICE SUPPLIES	190.00	800.00	800.00	304.49	0.00	495.51	0.00	38.06
101-257-860-000	ASSESSING MILEAGE	1,656.09	2,900.00	2,900.00	1,875.26	319.94	1,024.74	0.00	64.66
101-257-862-500	ASSESSING EXPENSE ACCOUNT	0.00	100.00	100.00	19.26	19.26	80.74	0.00	19.26
101-257-900-000	ASSESSING PRINTING AND PUBLISHING	1,907.60	5,200.00	5,200.00	1,902.45	0.00	3,297.55	0.00	36.59
101-257-924-100	CELL PHONES/DATA	208.39	300.00	300.00	176.33	16.03	123.67	0.00	58.78
101-257-939-000	ASSESSING SERVICE CONTRACTS	3,275.20	3,525.00	3,525.00	3,292.20	0.00	802.00	(589.79)	77.25
101-257-981-000	ASSESSING SMALL EQUIP AND FURNITURE	1,780.36	1,400.00	1,400.00	1,227.27	11.97	172.73	0.00	87.66
Total Dept 257 - ASSESSING		208,731.89	226,259.00	226,259.00	216,535.88	16,609.65	10,292.32	(589.79)	95.45
Dept 262 - ELECTIONS									
101-262-703-000	ELECTION SALARIES/PT HELP	26,161.03	3,000.00	6,000.00	5,610.00	0.00	390.00	0.00	93.50
101-262-703-100	WAGES & SALARIES- EK	8,336.89	2,000.00	2,000.00	0.00	0.00	2,000.00	0.00	0.00
101-262-756-000	ELECTION SUPPLIES	4,713.14	1,000.00	1,000.00	544.34	62.99	455.66	0.00	54.43
101-262-788-000	ELECTION MISC EXPENSES	7,513.53	2,500.00	2,500.00	1,629.63	698.13	870.37	0.00	65.19
101-262-801-000	ELECTION CONTRACT INSPECTOR	2,230.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Dept 262 - ELECTIONS		48,954.59	8,500.00	11,500.00	7,783.97	761.12	3,716.03	0.00	67.69
Dept 265 - BUILDING AND GROUNDS									
101-265-707-000	BLDG & GROUNDS SUPERVISOR	44,994.27	46,838.00	46,838.00	46,913.60	3,675.20	(75.60)	0.00	100.16
101-265-707-100	BLDG & GROUNDS ADDITIONAL HELP	46,915.13	60,000.00	60,000.00	47,916.25	0.00	12,083.75	0.00	79.86
101-265-707-200	BLDG & GROUNDS LABORER I	33,152.27	38,000.00	38,000.00	33,693.21	2,627.60	4,306.79	0.00	88.67
101-265-707-250	BLDG & GROUNDS LABORER I	33,949.24	33,648.00	33,648.00	35,324.00	2,640.40	(1,674.00)	0.00	104.98
101-265-707-300	BLDG & GROUNDS LABORER I	31,756.32	33,648.00	33,648.00	33,706.00	2,640.40	(58.00)	0.00	100.17
101-265-707-400	BLDG & GROUNDS LABORER I	33,314.85	33,648.00	33,648.00	33,851.45	2,773.71	(202.15)	0.00	100.60
101-265-709-000	WAGES/SALARIES OVERTIME	7,954.99	7,500.00	10,000.00	7,085.31	(269.68)	2,914.69	0.00	70.85
101-265-724-000	EDUCATION	0.00	750.00	1,500.00	715.00	0.00	785.00	0.00	47.67
101-265-768-000	BLDG & GROUNDS UNIFORMS	2,202.28	3,200.00	3,200.00	1,623.93	149.98	1,016.87	559.20	68.22
101-265-802-200	JANITORIAL CONTRACT	5,544.00	8,300.00	8,300.00	5,544.00	924.00	2,294.00	462.00	72.36
101-265-863-000	BLDG & GRDS VEHICLE MAINTENANCE	35,469.81	35,000.00	35,000.00	24,327.58	4,298.17	8,949.36	1,723.06	74.43
101-265-864-000	BLDG & GRDS VEHICLE FUEL	13,999.04	18,000.00	18,000.00	12,561.24	2,297.08	4,892.85	545.91	72.82
101-265-921-000	COMPLEX ELECTRICITY	27,135.79	30,000.00	30,000.00	27,564.89	5,078.33	2,435.11	0.00	91.88
101-265-923-000	COMPLEX HEATING	6,598.84	12,000.00	12,000.00	5,520.24	1,043.59	6,479.76	0.00	46.00
101-265-924-000	COMPLEX PHONES	8,323.60	8,000.00	8,000.00	7,503.16	374.32	496.84	0.00	93.79
101-265-924-100	BLDG AND GROUNDS CELL PHONES	1,953.84	1,800.00	1,800.00	1,951.66	459.90	(151.66)	0.00	108.43
101-265-927-000	COMPLEX WATER-SEWER	6,997.01	7,500.00	7,500.00	7,468.32	192.61	31.68	0.00	99.58

03/06/2018 REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED AVAIL BALANCE	ENCUMBERED YEAR-TO-DATE	% BDGT USED
		12/31/2016 NORM (ABNORM)	ORIGINAL BUDGET	2017 AMENDED BUDGET	12/31/2017 NORM (ABNORM)	MONTH 12/31/17 INCR (DECR)			
101-265-931-000	COMPLEX MAINTENANCE	41,518.99	60,000.00	60,000.00	31,798.21	2,646.49	20,724.20	7,477.59	65.46
101-265-932-000	OFFICE EQUIP/COMPUTER REPAIR	10,844.50	12,250.00	12,250.00	10,645.00	0.00	105.00	1,500.00	99.14
101-265-939-000	SERVICE CONTRACTS	573.30	800.00	800.00	110.00	0.00	690.00	0.00	13.75
101-265-961-000	MUSEUM MAINTENANCE	0.00	0.00	0.00	20.00	0.00	(20.00)	0.00	100.00
101-265-981-000	SMALL EQUIPMENT/FURNITURE	199.99	2,800.00	2,800.00	2,566.00	0.00	234.00	0.00	91.64
Total Dept 265 - BUILDING AND GROUNDS		393,398.06	453,682.00	456,932.00	378,409.05	31,452.10	66,255.19	12,267.76	85.50
Dept 276 - CEMETERY									
101-276-820-000	BACKHOE SERVICES	0.00	5,000.00	5,000.00	0.00	0.00	5,000.00	0.00	0.00
101-276-821-000	ENGINEERING COSTS	0.00	5,000.00	10,000.00	15,509.87	7,086.27	(5,500.00)	0.00	155.10
101-276-921-000	CEMETERY ELECTRICITY	1,006.69	1,000.00	1,000.00	841.29	119.63	158.71	0.00	84.13
101-276-931-000	MAINT & REPAIR/IMPROVEMENTS	590.81	50,000.00	40,000.00	9,880.22	9,350.00	30,119.78	0.00	24.70
101-276-932-000	CEMETERY MAINT	2,102.54	4,000.00	4,000.00	3,919.75	499.95	80.25	0.00	97.99
Total Dept 276 - CEMETERY		3,700.04	65,000.00	60,000.00	30,151.13	17,055.85	29,848.87	0.00	50.25
Dept 295 - ADMINISTRATIVE									
101-295-704-000	SR ACCOUNTANT	61,688.28	62,958.00	62,958.00	63,275.27	4,884.40	(17.72)	0.00	100.50
101-295-704-050	FRONT DESK CLERK (FT)	280.00	17,979.00	17,979.00	8,706.25	(210.00)	9,272.75	0.00	48.42
101-295-707-000	FRONT DESK CLERK (PT)	367.08	23,238.00	23,238.00	30,349.98	3,082.31	(7,111.02)	0.00	130.60
101-295-708-000	ADMIN ADDITIONAL HELP	0.00	5,000.00	5,000.00	0.00	0.00	5,000.00	0.00	0.00
101-295-709-000	WAGES/SALARIES OVERTIME	1,068.72	1,500.00	1,500.00	2,157.56	0.00	(1,088.84)	0.00	143.84
101-295-723-000	MEMBERSHIP AND DUES	365.00	475.00	475.00	365.00	0.00	110.00	0.00	76.84
101-295-724-000	EDUCATION	2,243.39	1,900.00	2,200.00	2,183.42	0.00	16.58	0.00	99.25
101-295-725-100	TUITION REIMBURSEMENT	0.00	1,500.00	1,500.00	0.00	0.00	1,500.00	0.00	0.00
101-295-726-000	EMPLOYEE TRAINING	992.21	3,000.00	3,000.00	683.06	126.46	2,316.94	0.00	22.77
101-295-727-000	OFFICE SUPPLIES	9,846.48	10,000.00	10,000.00	8,688.54	1,127.52	(1,101.44)	2,412.90	111.01
101-295-730-000	POSTAGE	13,095.17	19,000.00	19,000.00	12,034.16	(7.40)	6,965.84	0.00	63.34
101-295-787-000	OTHER EXPENSES	4,975.84	10,700.00	10,700.00	8,338.95	454.97	1,293.81	1,067.24	87.91
101-295-787-300	OTHER EXP - POSITIVE PAY FEE	100.00	250.00	250.00	0.00	0.00	250.00	0.00	0.00
101-295-807-000	AUDIT FEES & SERVICES	14,320.00	14,800.00	14,800.00	14,560.00	0.00	240.00	0.00	98.38
101-295-810-000	INSURANCE/CONTRACT SVCS	13,448.80	14,000.00	16,058.00	16,065.10	8.00	(7.10)	0.00	100.04
101-295-814-000	TAX/ASSESSING ADMIN COSTS	16,282.01	22,000.00	22,000.00	18,958.54	6,361.55	3,041.46	0.00	86.18
101-295-815-000	COMPUTER COSTS-ISP	1,683.00	2,560.00	3,560.00	2,743.75	503.00	324.00	492.25	90.90
101-295-815-100	COMPUTER COSTS-WEB SITE	3,949.00	5,850.00	5,850.00	3,983.00	0.00	1,867.00	0.00	68.09
101-295-816-000	INSECT/WEEED CONTROL	34,923.80	36,000.00	36,000.00	36,247.05	8,600.00	(247.05)	0.00	100.69
101-295-821-000	ENGINEERING COSTS	29,168.24	35,000.00	35,000.00	30,263.10	2,319.55	4,736.90	0.00	86.47
101-295-826-000	LEGAL FEES	48,835.84	35,000.00	75,000.00	81,460.25	11,355.75	(6,460.25)	0.00	108.61
101-295-860-000	ADMINISTRATIVE MILEAGE	12.42	500.00	500.00	0.00	0.00	500.00	0.00	0.00
101-295-881-000	FOURTH OF JULY	46,403.30	50,000.00	50,000.00	49,942.48	0.00	57.52	0.00	99.88
101-295-881-200	HALLOWEEN	759.46	2,500.00	2,500.00	1,286.58	0.00	1,213.42	0.00	51.46
101-295-881-300	KDL MUSIC PROGRAMING	3,500.00	3,500.00	3,500.00	3,500.00	0.00	0.00	0.00	100.00
101-295-882-000	SENIOR CITIZENS	1,555.00	1,800.00	1,800.00	1,615.00	0.00	185.00	0.00	89.72
101-295-885-000	NEWSLETTER	23,227.23	25,000.00	25,000.00	23,458.83	4,626.86	(1,535.08)	1,977.05	101.74
101-295-900-000	PRINTING/PUBLISHING	5,311.37	7,500.00	7,500.00	5,992.80	0.00	1,507.20	0.00	79.90
101-295-901-000	PUBLICATIONS	395.00	0.00	0.00	375.25	0.00	(375.25)	0.00	100.00
101-295-924-100	CELL PHONES/DATA	208.39	600.00	600.00	176.33	16.03	423.67	0.00	29.39
101-295-939-000	SERVICE CONTRACTS	14,067.51	14,200.00	14,200.00	16,831.58	9,414.64	(2,031.58)	0.00	118.53
101-295-941-000	POSTAGE MACHINE LEASE	2,700.00	3,000.00	3,000.00	2,038.17	688.17	273.66	688.17	90.88
101-295-950-000	PROPERTY TAX REFUNDS	1,970.43	1,000.00	1,000.00	538.80	852.91	461.20	0.00	53.88
101-295-951-000	CABLE EQUIPMENT GRANTS	35,000.00	35,000.00	35,000.00	35,000.00	0.00	0.00	0.00	100.00
101-295-952-000	REGIS	37,898.00	37,900.00	37,900.00	38,231.16	0.00	(331.16)	0.00	100.87
101-295-952-100	KENT COUNTY AERIAL PHOTO	3,294.42	4,000.00	11,500.00	10,200.41	7,553.10	1,299.59	0.00	88.70
101-295-954-000	NPDES PHASE II	2,855.00	2,500.00	2,855.00	2,855.00	0.00	0.00	0.00	100.00
101-295-955-000	COMMUNITY MEDIA CENTER	5,000.00	5,000.00	5,000.00	5,000.00	0.00	0.00	0.00	100.00
101-295-956-000	RIGHT PLACE PROGRAM CONTRIBUTIONS (20	5,000.00	7,500.00	7,500.00	7,500.00	0.00	0.00	0.00	100.00
101-295-957-000	GENERAL FUND PHYSICAL EXAMS	962.00	2,000.00	2,000.00	202.74	0.00	1,797.26	0.00	10.14
101-295-967-000	SPECIAL PROJECTS	6,506.95	67,500.00	92,500.00	38,372.53	10,965.16	52,829.72	1,297.75	42.89
101-295-981-000	SMALL EQUIPMENT/FURNITURE	3,043.34	2,500.00	2,500.00	1,171.19	728.99	949.81	379.00	62.01
Total Dept 295 - ADMINISTRATIVE		457,302.68	596,210.00	672,423.00	585,351.83	73,381.97	78,756.81	8,314.36	88.29
Dept 445 - DRAIN									
101-445-816-000	DRAIN MAINTENANCE	2,457.87	12,000.00	27,000.00	24,832.90	8,983.83	2,142.35	24.75	92.07
101-445-818-000	STORM WATER GRANT MATCH/KCDC	5,733.90	9,737.00	2,261.00	4,756.25	2,495.85	(7,493.25)	0.00	210.36
101-445-818-010	STORM WATER/SAW GRANT CONTR SERVICE	54,205.20	97,365.00	20,344.00	42,806.25	22,462.65	(22,462.25)	0.00	210.41
101-445-821-000	DRAIN ENGINEERING	45,590.64	15,000.00	15,000.00	17,138.75	779.50	(2,138.75)	0.00	114.26
101-445-822-000	ILLICIT DISCHARGE PLAN	500.00	500.00	500.00	500.00	0.00	0.00	0.00	100.00
101-445-823-000	LGROW MEMBERSHIP DUES	400.00	400.00	400.00	400.00	0.00	0.00	0.00	100.00
Total Dept 445 - DRAIN		108,887.61	135,002.00	65,505.00	90,434.15	34,721.83	(24,853.90)	24.75	138.09
Dept 446 - ROADS									
101-446-818-000	DUST CONTROL LAYER	2,263.09	3,300.00	3,300.00	2,082.85	0.00	1,217.15	0.00	63.12
101-446-819-000	ROAD REPAIR	0.00	1,000.00	1,000.00	217,881.53	0.00	(216,881.53)	0.00	21,788.15
101-446-821-000	ROAD OVERLAYS	327,480.69	380,000.00	380,000.00	36,127.92	0.00	343,872.08	0.00	9.51
101-446-821-500	ROAD ENGINEERING STUDIES	0.00	3,000.00	3,000.00	0.00	0.00	3,000.00	0.00	0.00
Total Dept 446 - ROADS		329,743.78	387,300.00	387,300.00	256,092.30	0.00	131,207.70	0.00	66.12

03/06/2018 REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED	ENCUMBERED	% BGDG
		12/31/2016	ORIGINAL	AMENDED	12/31/2017	MONTH 12/31/17	AVAIL BALANCE			
		NORM (ABNORM)	BUDGET	BUDGET	BUDGET	NORM (ABNORM)	INCR (DECR)			
<b>Dept 447 - YARD WASTE REMOVAL</b>										
101-447-787-000	YARD WASTE OTHER EXPENSES	925.80	1,200.00	1,200.00		733.46	0.00	466.54	0.00	61.12
101-447-818-000	CONTRACTED SERVICES	34,999.50	34,000.00	34,000.00		34,525.50	11,202.50	(525.50)	0.00	101.55
101-447-820-000	SPRING/FALL CLEAN-UP	16,639.76	27,000.00	27,000.00		22,236.99	9,560.56	4,763.01	0.00	82.36
<b>Total Dept 447 - YARD WASTE REMOVAL</b>		<b>52,565.06</b>	<b>62,200.00</b>	<b>62,200.00</b>		<b>57,495.95</b>	<b>20,763.06</b>	<b>4,704.05</b>	<b>0.00</b>	<b>92.14</b>
<b>Dept 448 - STREET LIGHTS</b>										
101-448-926-000	STREETLIGHTING	104,762.61	110,000.00	110,000.00		112,115.39	18,943.60	(2,115.39)	0.00	101.92
101-448-927-100	TRAFFIC SIGNALS	2,186.79	3,000.00	3,000.00		466.68	68.88	2,533.32	0.00	15.56
<b>Total Dept 448 - STREET LIGHTS</b>		<b>106,949.40</b>	<b>113,000.00</b>	<b>113,000.00</b>		<b>112,582.07</b>	<b>19,012.48</b>	<b>417.93</b>	<b>0.00</b>	<b>99.63</b>
<b>Dept 652 - TRANSPORTATION</b>										
101-652-859-000	TRANSPORTATION SERVICES	41,966.00	47,000.00	47,000.00		41,563.50	7,408.50	5,436.50	0.00	88.43
101-652-859-100	TRANSPORTATION SERVICE-GO BUS TICKETS	7,320.00	3,500.00	3,500.00		0.00	0.00	3,500.00	0.00	0.00
101-652-861-000	BUS SERVICE 33RD & 36TH	44,207.25	28,740.00	28,740.00		43,556.14	2,210.33	(14,316.14)	0.00	151.55
101-652-861-100	BUS SERVICE 28TH ST	238,338.22	285,660.00	285,660.00		252,800.17	21,993.48	32,859.83	0.00	88.50
<b>Total Dept 652 - TRANSPORTATION</b>		<b>331,831.47</b>	<b>364,900.00</b>	<b>364,900.00</b>		<b>337,919.81</b>	<b>31,612.31</b>	<b>26,980.19</b>	<b>0.00</b>	<b>92.61</b>
<b>Dept 721 - PLANNING</b>										
101-721-703-000	COMMUNITY DEVELOPMENT DIRECTOR	83,734.17	85,458.00	85,458.00		85,513.72	6,629.56	(55.72)	0.00	100.07
101-721-704-000	FRONT DESK CLERK (PT)	35,364.35	0.00	0.00		0.00	0.00	0.00	0.00	0.00
101-721-704-500	PLANNING INTERN	0.00	10,000.00	10,000.00		5,392.00	0.00	4,608.00	0.00	53.92
101-721-705-500	DDA ECONOMIC DEVELOPMENT DIRECTOR	63,277.90	64,581.00	64,581.00		64,622.59	5,009.95	(41.59)	0.00	100.06
101-721-705-550	COMMUNITY STANDARDS OFFICER	19,886.36	35,060.00	35,060.00		28,880.36	3,398.04	6,179.64	0.00	82.37
101-721-706-000	PLANNING COMMISSION PER DIEM	5,105.00	9,000.00	9,000.00		7,380.00	7,380.00	1,620.00	0.00	82.00
101-721-707-000	ZONING BOARD PER DIEM	1,565.00	3,000.00	3,000.00		1,585.00	1,585.00	1,415.00	0.00	52.83
101-721-708-000	WAGES/SALARIES-PLANNING OVERTIME	0.00	500.00	500.00		0.00	0.00	500.00	0.00	0.00
101-721-723-000	COMM DEV MEMBERSHIPS AND DUES	1,105.00	1,000.00	1,000.00		968.00	0.00	(870.00)	908.00	187.60
101-721-724-000	EDUCATION	1,798.88	4,000.00	6,000.00		5,457.62	0.00	542.38	0.00	90.96
101-721-727-000	COMM DEV SUPPLIES	96.63	500.00	500.00		198.70	0.00	301.30	0.00	39.74
101-721-768-000	COMM DEV UNIFORMS	163.94	500.00	500.00		238.34	49.80	261.66	0.00	47.67
101-721-787-000	PLANNING OTHER EXP/MINUTES	1,359.63	3,000.00	3,000.00		2,318.86	330.33	681.14	0.00	77.30
101-721-860-000	COMM DEV MILEAGE	1,203.06	1,700.00	2,700.00		2,586.61	139.64	113.39	0.00	95.80
101-721-862-500	COMM DEV EXPENSE ACCOUNT	522.52	600.00	600.00		472.53	20.53	127.47	0.00	78.76
101-721-900-000	PRINTING & PUBLISHING	6,132.65	9,000.00	14,000.00		14,859.85	2,579.15	(859.85)	0.00	106.14
101-721-901-000	DIGITAL IMAGING	0.00	5,000.00	5,000.00		4,579.30	0.00	420.70	0.00	91.59
101-721-925-000	COMM DEV CELL/DATA	1,906.35	1,800.00	1,800.00		1,543.92	237.75	256.08	0.00	85.77
101-721-967-000	SPECIAL PROJECTS	6,672.64	30,000.00	30,000.00		3,017.50	35.00	26,982.50	0.00	10.06
101-721-981-000	COMM DEV SMALL EQUIP AND FURNITURE	2,396.46	1,200.00	2,200.00		1,332.70	0.00	867.30	0.00	60.58
<b>Total Dept 721 - PLANNING</b>		<b>232,290.54</b>	<b>265,899.00</b>	<b>274,899.00</b>		<b>230,947.60</b>	<b>27,394.75</b>	<b>43,043.40</b>	<b>908.00</b>	<b>84.34</b>
<b>Dept 756 - PARKS</b>										
101-756-756-000	PARK OPERATING SUPPLIES	2,497.97	6,000.00	6,000.00		4,319.33	0.00	396.70	1,283.97	93.39
101-756-921-000	PARK ELECTRICITY	5,653.52	5,800.00	5,800.00		5,072.04	765.22	727.96	0.00	87.45
101-756-924-000	PARK PHONES	708.88	900.00	900.00		729.72	62.66	170.28	0.00	81.08
101-756-927-000	PARK WATER-SEWER	3,172.37	3,200.00	3,200.00		3,173.33	806.06	26.67	0.00	99.17
101-756-935-000	PARK MAINTENANCE	70,732.75	30,800.00	45,800.00		43,984.75	15,224.01	(5,198.74)	7,013.99	111.35
101-756-981-000	SMALL EQUIPMENT/FURNITURE	284.81	1,000.00	1,000.00		4,699.56	0.00	(3,399.56)	0.00	469.96
<b>Total Dept 756 - PARKS</b>		<b>83,050.30</b>	<b>47,700.00</b>	<b>62,700.00</b>		<b>61,978.73</b>	<b>16,857.95</b>	<b>(7,175.60)</b>	<b>8,297.96</b>	<b>112.08</b>
<b>Dept 803 - HISTORICAL</b>										
101-803-758-000	PROJECTS, PROMOTIONS & PROGRAM	5,000.00	5,000.00	5,000.00		5,000.00	0.00	0.00	0.00	100.00
101-803-921-000	MUSEUM - ELECTRICITY	838.50	720.00	720.00		715.24	103.93	4.76	0.00	99.34
101-803-923-000	MUSEUM - HEATING/UTILITY	904.44	1,080.00	1,080.00		836.73	197.57	243.27	0.00	77.48
101-803-927-000	MUSEUM WATER-SEWER	1,113.95	260.00	1,260.00		1,106.45	275.55	153.55	0.00	87.81
101-803-961-000	MUSEUM MAINTENANCE	8,609.86	2,400.00	2,400.00		1,424.64	80.88	947.55	27.81	60.52
<b>Total Dept 803 - HISTORICAL</b>		<b>16,466.75</b>	<b>9,460.00</b>	<b>10,460.00</b>		<b>9,083.06</b>	<b>657.93</b>	<b>1,349.13</b>	<b>27.81</b>	<b>87.10</b>
<b>Dept 850 - BENEFITS/INSURANCE</b>										
101-850-715-000	FICA-EMPLOYER	76,510.31	84,846.00	84,846.00		78,083.12	6,524.10	6,762.88	0.00	92.03
101-850-717-000	WORKERS COMP INSURANCE	25,315.50	21,550.00	21,550.00		21,244.50	819.50	305.50	0.00	98.58
101-850-718-000	VISION INSURANCE BENEFITS	1,875.60	2,192.00	2,192.00		1,810.29	151.26	381.71	0.00	82.59
101-850-719-000	HEALTH INSURANCE BENEFITS	118,459.92	110,850.00	125,850.00		125,548.51	3,238.93	301.49	0.00	99.76
101-850-719-100	OPT-OUT INSURANCE	4,000.00	5,400.00	5,400.00		3,500.00	1,500.00	1,900.00	0.00	64.81
101-850-719-200	MI CLAIMS TAX- HEALTH	0.00	850.00	850.00		0.00	0.00	850.00	0.00	0.00
101-850-720-000	LIFE & DIS INSURANCE BENEFITS	6,701.61	8,034.00	8,034.00		7,505.28	625.44	528.72	0.00	93.42
101-850-721-000	DENTAL INSURANCE BENEFITS	11,336.43	12,949.00	12,949.00		12,646.01	107.98	302.99	0.00	97.66
101-850-721-200	MI CLAIMS TAX - DENTAL	170.51	250.00	250.00		108.04	0.00	141.96	0.00	43.22
101-850-722-000	PENSION PLAN BENEFITS	91,956.89	96,837.00	111,837.00		112,719.49	9,150.83	(882.50)	0.00	100.79
101-850-723-000	OTHER BENEFITS	0.00	1,500.00	1,500.00		3,000.00	1,500.00	(1,500.00)	0.00	200.00
101-850-960-000	UNEMPLOYMENT COSTS	60.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
<b>Total Dept 850 - BENEFITS/INSURANCE</b>		<b>336,386.77</b>	<b>345,258.00</b>	<b>375,258.00</b>		<b>366,165.24</b>	<b>23,618.04</b>	<b>9,092.76</b>	<b>0.00</b>	<b>97.58</b>
<b>Dept 901 - CAPITAL OUTLAY</b>										
101-901-970-000	CAPITAL OUTLAY - FFE	64,754.95	75,000.00	75,000.00		68,371.80	39,136.00	6,628.20	0.00	91.16
101-901-971-000	CAPITAL OUTLAY - LAND	5,153.23	0.00	1,200.00		922.34	47.70	277.66	0.00	76.86

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REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
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GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED	ENCUMBERED	% BDGT
		12/31/2016	ORIGINAL	2017	12/31/2017	MONTH 12/31/17			
		NORM (ABNORM)	BUDGET	AMENDED BUDGET	NORM (ABNORM)	INCR (DECR)	AVAIL BALANCE	YEAR-TO-DATE	USED
101-901-974-000	CAPITAL OUTLAY - LANDIMP	372,822.10	315,000.00	315,000.00	254,892.62	45,873.00	60,107.02	0.36	80.92
101-901-974-756	CAPITAL OUTLAY LAND IMPROV-PARKS	(14,000.00)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
101-901-975-000	CAPITAL OUTLAY - BLDGIMP	0.00	136,000.00	136,000.00	59,784.14	33,143.54	76,215.86	0.00	43.96
Total Dept 901 - CAPITAL OUTLAY		432,730.28	526,000.00	527,200.00	383,970.90	118,200.24	143,228.74	0.36	77.83
Dept 965 - TRANSFERS OUT									
101-965-999-004	TRANSFER TO CEMETERY TRUST FUN	1,575.00	1,500.00	1,500.00	2,775.00	2,775.00	(1,275.00)	0.00	185.00
101-965-999-005	TRANSFER TO DAM MAJOR REPAIR	40,000.00	40,000.00	40,000.00	30,000.00	0.00	10,000.00	0.00	75.00
101-965-999-006	TRANSFER TO FIRE FUND	400,000.00	400,000.00	400,000.00	400,000.00	300,000.01	0.00	0.00	100.00
Total Dept 965 - TRANSFERS OUT		441,575.00	441,500.00	441,500.00	432,775.00	302,775.01	8,725.00	0.00	98.02
TOTAL EXPENDITURES		3,958,254.65	4,466,220.00	4,530,586.00	3,941,634.99	764,944.18	559,679.21	29,271.80	87.65
Fund 101 - GENERAL FUND:									
TOTAL REVENUES		4,511,377.65	4,498,687.00	4,753,142.00	4,572,269.42	262,651.75	180,872.58	0.00	96.19
TOTAL EXPENDITURES		3,958,254.65	4,466,220.00	4,530,586.00	3,941,634.99	764,944.18	559,679.21	29,271.80	87.65
NET OF REVENUES & EXPENDITURES		553,123.00	32,467.00	222,556.00	630,634.43	(502,292.43)	(378,806.63)	(29,271.80)	270.21
BEG. FUND BALANCE		8,527,110.43	9,080,233.43	9,080,233.43	9,080,233.43				
END FUND BALANCE		9,080,233.43	9,112,700.43	9,302,789.43	9,710,867.86				

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TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
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GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 101 - GENERAL FUND			
101-000-001-001	CASH DRAWER-PETTY CASH	175.00	
101-000-001-103	CASH- CHEMICAL WIRE# 7505	1.00	
101-000-001-190	CHEMICAL -CASH OPER	637,180.53	
101-000-001-301	COMERICAL PAPER- GENERAL FUND	988,975.00	
101-000-001-500	GF CASH - K.C. POOL	3,508,476.48	
101-000-003-001	CD - INDEPENDENT BANK 9019789418 M9/16	312,032.12	
101-000-003-005	CD - COAMERICA M 8/17, 8/18	1,028,848.86	
101-000-003-019	CD- FLAGSTAR BANK M5/22/2018	766,868.79	
101-000-003-022	CD- MERCANTILE BANK OF MI 7/20/2018	510,599.72	
101-000-003-025	CD - MACATAWA BANK M 11/21/2018	256,761.60	
101-000-003-028	CONSUMER CREDIT UNION M 7/08/2019	255,959.76	
101-000-003-033	CD - PRIVATE BANK M3/15/2020	500,000.00	
101-000-003-036	HORIZON BANK CD M3/9/2019	500,000.00	
101-000-003-038	GRAND RIVER BANK CD ACCT 2917 M6/19/2019	500,000.00	
101-000-020-000	TAXES RECEIVABLE	767,199.01	
101-000-040-000	ACCOUNTS RECEIVABLE	130,453.55	
101-000-084-000	DUE FROM OTHER FUNDS	827,895.38	
101-000-123-000	PREPAID EXPENSE	13,092.33	
101-000-202-000	ACCOUNTS PAYABLE		172,245.72
101-000-204-000	ACCRUED PAYROLL		18,365.79
101-000-211-000	CONTRACT PAYABLE-RETAINAGE		9,433.70
101-000-231-220	DEPENDENT LIFE W/H	117.32	
101-000-231-221	ADDITIONAL LIFE W/H	1,195.96	
101-000-231-222	SHORT TERM DISABILITY W/H		165.41
101-000-231-224	LONG TERM CARE W/H	72.50	
101-000-339-000	DEFERRED REVENUE		1,594,826.43
101-000-390-000	FUND BALANCE - UNASSIGNED		8,092,598.10
101-000-391-001	FUND BALANCE - COMMITTED/PENSION 2012		499,543.00
101-000-391-003	FUND BALANCE - COMMITTED/ PP TAX 2012		475,000.00
101-000-393-000	FUND BALANCE - NONSPENDABLE		13,092.33
101-000-401-401	GENERAL PROPERTY TAXES		1,252,151.64
101-000-401-405	STREETLIGHT		62,185.45
101-000-401-410	PERSONAL PROPERTY TAX		95,727.84
101-000-401-420	DELINQUENT TAXES		9,001.44
101-000-401-437	ABATEMENT TAXES		6,481.00
101-000-401-441	COMMUNITY STABILIZATION SHARE TAX		83,215.90
101-000-401-445	INTEREST & PENALTIES ON TAXES		10,267.42
101-000-401-447	TAX ADMINISTRATION FEES		606,384.35
101-000-450-460	CABLE / FIBER OPTIC		381,007.34
101-000-450-465	CABLE - PEG FEES		58,465.79
101-000-450-490	DOG LICENSES		73.60
101-000-450-498	OTHER PERMITS		560.00
101-000-451-000	LIQUOR LICENSE		23,928.30
101-000-539-010	DEQ-SAW GRANT 2017		42,770.25
101-000-539-576	STATE SHARED REV.-SALES TAX		1,227,787.00
101-000-539-581	PA 48 (METRO AUTHORITY) NOW STABILIZATON		15,565.41
101-000-600-608	PLANNING AND ZONING FEES		33,727.51
101-000-600-610	SUMMER TAX COLLECTION FEE		26,012.00
101-000-600-611	SEWER & WATER IMPLEMENTATION		36,567.95

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TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
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GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
101-000-600-614	PA 198 TAX APPLICATION FEE		2,776.43
101-000-600-626	PASSPORT APPLICATION FEE		22,275.00
101-000-600-634	CEMETERY-OPENINGS AND CLOSINGS		21,545.00
101-000-600-647	YARD WASTE TAG FEE		1,382.00
101-000-600-648	SALE OF PRINTED MATERIAL		103.00
101-000-665-000	INTEREST ON INVESTMENTS		62,133.39
101-000-665-001	INTEREST TIMMONS FUND		235.42
101-000-665-002	DAM LEASE PAYMENTS		68,667.47
101-000-665-003	RENTAL OF FACILITIES		1,670.00
101-000-665-004	CELLULAR TOWERS		147,028.49
101-000-665-031	INTEREST ON INVESTMENT- WELLS FARGO		3,316.38
101-000-665-210	INT ON INVEST-GF COAMERICA 983 QRT JP		5,924.66
101-000-671-653	PARK INCOME		7,675.00
101-000-671-671	MISCELLANEOUS INCOME		21,321.15
101-000-671-680	MISC INCOME - TRANSIT TICKETS		1,341.00
101-000-671-683	REIMBURSEMENTS/REFUNDS		15.36
101-000-673-000	SALE OF ASSETS		50.00
101-000-674-000	4TH OF JULY SPONSORS		13,550.00
101-000-674-200	HALLOWEEN SPONSORS		1,730.00
101-000-676-000	ELECTION REIMBURSEMENT		13,615.58
101-000-679-000	INTERFUND REIMBURSE/BLDG INSPECTION FUND		93,357.90
101-000-679-200	INTERFUND REIMBURSEMENT/LIBRARY		16,336.00
101-000-699-248	TRF FROM DDA		94,340.00
101-101-703-000	TRUSTEE SALARIES	23,842.56	
101-101-723-000	TOWNSHIP DUES	16,331.57	
101-101-862-500	TRUSTEE EXPENSE ACCOUNT	18.07	
101-101-924-100	TRUSTEE CELL PHONES	705.43	
101-171-703-000	SUPERVISOR SALARY	15,000.00	
101-171-706-000	MANAGERS SALARY	108,595.26	
101-171-723-000	SUP/MGR MEMBERSHIPS AND DUES	1,557.43	
101-171-724-000	EDUCATION	3,333.08	
101-171-860-000	SUP/MGR/DEPT MILEAGE	3,544.24	
101-171-862-500	SUPERVISOR EXPENSE ACCOUNT	188.91	
101-171-862-550	MANAGER EXPENSE ACCOUNT	274.06	
101-171-901-000	MANAGER PUBLICATIONS	124.00	
101-171-925-000	MANAGER CELL PHONE	1,940.45	
101-171-981-000	SMALL EQUIPMENT/FURNITURE	14.99	
101-215-703-000	CLERK SALARY	11,701.20	
101-215-704-000	DEPUTY CLERK	6,733.00	
101-215-704-050	HR DIRECTOR	60,639.58	
101-215-723-000	CLERK MEMBERSHIPS AND DUES	509.00	
101-215-724-000	EDUCATION	843.56	
101-215-860-000	CLERK MILEAGE	560.10	
101-215-925-000	CLERK CELL PHONE	702.77	
101-253-703-000	TREASURER SALARY	11,701.20	
101-253-707-000	DEPUTY TREASURER	53,289.20	
101-253-707-050	ACCOUNT CLERK I	5,916.00	
101-253-707-060	ACCOUNT CLERK II	47,954.40	
101-253-707-100	ADDITIONAL HELP/OVERTIME	1,257.00	
101-253-723-000	TREASURER MEMBERSHIPS AND DUES	585.00	

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GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
101-253-724-000	EDUCATION	755.15	
101-253-860-000	TREASURER MILEAGE	185.67	
101-253-924-100	TREASURER'S CELL PHONES	176.33	
101-253-939-000	TREASURER SERVICE CONTRACTS	2,575.95	
101-253-981-000	SMALL EQUIPMENT/FURNITURE	2,403.16	
101-257-703-000	ASSESSOR	87,249.30	
101-257-706-000	ASSESSING BOARD OF REVIEW EXPENSE	2,285.43	
101-257-708-000	SR RESIDENTIAL APPRAISER JM/JG	65,048.75	
101-257-708-500	RESIDENTIAL APPRAISER	47,702.07	
101-257-723-000	ASSESSING MEMBERSHIPS AND DUES	1,509.00	
101-257-724-000	EDUCATION	3,944.07	
101-257-727-000	ASSESSING OFFICE SUPPLIES	304.49	
101-257-860-000	ASSESSING MILEAGE	1,875.26	
101-257-862-500	ASSESSING EXPENSE ACCOUNT	19.26	
101-257-900-000	ASSESSING PRINTING AND PUBLISHING	1,902.45	
101-257-924-100	CELL PHONES/DATA	176.33	
101-257-939-000	ASSESSING SERVICE CONTRACTS	3,292.20	
101-257-981-000	ASSESSING SMALL EQUIP AND FURNITURE	1,227.27	
101-262-703-000	ELECTION SALARIES/PT HELP	5,610.00	
101-262-756-000	ELECTION SUPPLIES	544.34	
101-262-788-000	ELECTION MISC EXPENSES	1,629.63	
101-265-707-000	BLDG & GROUNDS SUPERVISOR	46,913.60	
101-265-707-100	BLDG & GROUNDS ADDITIONAL HELP	47,916.25	
101-265-707-200	BLDG & GROUNDS LABORER I	33,693.21	
101-265-707-250	BLDG & GROUNDS LABORER I	35,324.00	
101-265-707-300	BLDG & GROUNDS LABORER I	33,706.00	
101-265-707-400	BLDG & GROUNDS LABORER I	33,851.45	
101-265-709-000	WAGES/SALARIES OVERTIME	7,085.31	
101-265-724-000	EDUCATION	715.00	
101-265-768-000	BLDG & GROUNDS UNIFORMS	1,623.93	
101-265-802-200	JANITORIAL CONTRACT	5,544.00	
101-265-863-000	BLDG & GRDS VEHICLE MAINTENANCE	24,327.58	
101-265-864-000	BLDG & GRDS VEHICLE FUEL	12,561.24	
101-265-921-000	COMPLEX ELECTRICITY	27,564.89	
101-265-923-000	COMPLEX HEATING	5,520.24	
101-265-924-000	COMPLEX PHONES	7,503.16	
101-265-924-100	BLDG AND GROUNDS CELL PHONES	1,951.66	
101-265-927-000	COMPLEX WATER-SEWER	7,468.32	
101-265-931-000	COMPLEX MAINTENANCE	31,798.21	
101-265-932-000	OFFICE EQUIP/COMPUTER REPAIR	10,645.00	
101-265-939-000	SERVICE CONTRACTS	110.00	
101-265-961-000	MUSEUM MAINTENANCE	20.00	
101-265-981-000	SMALL EQUIPMENT/FURNITURE	2,566.00	
101-276-821-000	ENGINEERING COSTS	15,509.87	
101-276-921-000	CEMETERY ELECTRICITY	841.29	
101-276-931-000	MAINT & REPAIR/IMPROVEMENTS	9,880.22	
101-276-932-000	CEMETERY MAINT	3,919.75	
101-295-704-000	SR ACCOUNTANT	63,275.27	
101-295-704-050	FRONT DESK CLERK (FT)	8,706.25	
101-295-707-000	FRONT DESK CLERK (PT)	30,349.98	

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GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
101-295-709-000	WAGES/SALARIES OVERTIME	2,157.56	
101-295-723-000	MEMBERSHIP AND DUES	365.00	
101-295-724-000	EDUCATION	2,183.42	
101-295-726-000	EMPLOYEE TRAINING	683.06	
101-295-727-000	OFFICE SUPPLIES	8,688.54	
101-295-730-000	POSTAGE	12,034.16	
101-295-787-000	OTHER EXPENSES	8,338.95	
101-295-807-000	AUDIT FEES & SERVICES	14,560.00	
101-295-810-000	INSURANCE/CONTRACT SVCS	16,065.10	
101-295-814-000	TAX/ASSESSING ADMIN COSTS	18,958.54	
101-295-815-000	COMPUTER COSTS-ISP	2,743.75	
101-295-815-100	COMPUTER COSTS-WEB SITE	3,983.00	
101-295-816-000	INSECT/WEED CONTROL	36,247.05	
101-295-821-000	ENGINEERING COSTS	30,263.10	
101-295-826-000	LEGAL FEES	81,460.25	
101-295-881-000	FOURTH OF JULY	49,942.48	
101-295-881-200	HALLOWEEN	1,286.58	
101-295-881-300	KDL MUSIC PROGRAMING	3,500.00	
101-295-882-000	SENIOR CITIZENS	1,615.00	
101-295-885-000	NEWSLETTER	23,458.83	
101-295-900-000	PRINTING/PUBLISHING	5,992.80	
101-295-901-000	PUBLICATIONS	375.25	
101-295-924-100	CELL PHONES/DATA	176.33	
101-295-939-000	SERVICE CONTRACTS	16,831.58	
101-295-941-000	POSTAGE MACHINE LEASE	2,038.17	
101-295-950-000	PROPERTY TAX REFUNDS	538.80	
101-295-951-000	CABLE EQUIPMENT GRANTS	35,000.00	
101-295-952-000	REGIS	38,231.16	
101-295-952-100	KENT COUNTY AERIAL PHOTO	10,200.41	
101-295-954-000	NPDES PHASE II	2,855.00	
101-295-955-000	COMMUNITY MEDIA CENTER	5,000.00	
101-295-956-000	RIGHT PLACE PROGRAM CONTRIBUTIONS (2014)	7,500.00	
101-295-957-000	GENERAL FUND PHYSICAL EXAMS	202.74	
101-295-967-000	SPECIAL PROJECTS	38,372.53	
101-295-981-000	SMALL EQUIPMENT/FURNITURE	1,171.19	
101-445-816-000	DRAIN MAINTENANCE	24,832.90	
101-445-818-000	STORM WATER GRANT MATCH/KCDC	4,756.25	
101-445-818-010	STORM WATER/SAW GRANT CONTR SERVICE	42,806.25	
101-445-821-000	DRAIN ENGINEERING	17,138.75	
101-445-822-000	ILLICIT DISCHARGE PLAN	500.00	
101-445-823-000	LGROW MEMBERSHIP DUES	400.00	
101-446-818-000	DUST CONTROL LAYER	2,082.85	
101-446-819-000	ROAD REPAIR	217,881.53	
101-446-821-000	ROAD OVERLAYS	36,127.92	
101-447-787-000	YARD WASTE OTHER EXPENSES	733.46	
101-447-818-000	CONTRACTED SERVICES	34,525.50	
101-447-820-000	SPRING/FALL CLEAN-UP	22,236.99	
101-448-926-000	STREETLIGHTING	112,115.39	
101-448-927-100	TRAFFIC SIGNALS	466.68	
101-652-859-000	TRANSPORTATION SERVICES	41,563.50	

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TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
101-652-861-000	BUS SERVICE 33RD & 36TH	43,556.14	
101-652-861-100	BUS SERVICE 28TH ST	252,800.17	
101-721-703-000	COMMUNITY DEVELOPMENT DIRECTOR	85,513.72	
101-721-704-500	PLANNING INTERN	5,392.00	
101-721-705-500	DDA ECONOMIC DEVELOPMENT DIRECTOR	64,622.59	
101-721-705-550	COMMUNITY STANDARDS OFFICER	28,880.36	
101-721-706-000	PLANNING COMMISSION PER DIEM	7,380.00	
101-721-707-000	ZONING BOARD PER DIEM	1,585.00	
101-721-723-000	COMM DEV MEMBERSHIPS AND DUES	968.00	
101-721-724-000	EDUCATION	5,457.62	
101-721-727-000	COMM DEV SUPPLIES	198.70	
101-721-768-000	COMM DEV UNIFORMS	238.34	
101-721-787-000	PLANNING OTHER EXP/MINUTES	2,318.86	
101-721-860-000	COMM DEV MILEAGE	2,586.61	
101-721-862-500	COMM DEV EXPENSE ACCOUNT	472.53	
101-721-900-000	PRINTING & PUBLISHING	14,859.85	
101-721-901-000	DIGITAL IMAGING	4,579.30	
101-721-925-000	COMM DEV CELL/DATA	1,543.92	
101-721-967-000	SPECIAL PROJECTS	3,017.50	
101-721-981-000	COMM DEV SMALL EQUIP AND FURNITURE	1,332.70	
101-756-756-000	PARK OPERATING SUPPLIES	4,319.33	
101-756-921-000	PARK ELECTRICITY	5,072.04	
101-756-924-000	PARK PHONES	729.72	
101-756-927-000	PARK WATER-SEWER	3,173.33	
101-756-935-000	PARK MAINTENANCE	43,984.75	
101-756-981-000	SMALL EQUIPMENT/FURNITURE	4,699.56	
101-803-758-000	PROJECTS, PROMOTIONS & PROGRAM	5,000.00	
101-803-921-000	MUSEUM - ELECTRICITY	715.24	
101-803-923-000	MUSEUM - HEATING/UTILITY	836.73	
101-803-927-000	MUSEUM WATER-SEWER	1,106.45	
101-803-961-000	MUSEUM MAINTENANCE	1,424.64	
101-850-715-000	FICA-EMPLOYER	78,083.12	
101-850-717-000	WORKERS COMP INSURANCE	21,244.50	
101-850-718-000	VISION INSURANCE BENEFITS	1,810.29	
101-850-719-000	HEALTH INSURANCE BENEFITS	125,548.51	
101-850-719-100	OPT-OUT INSURANCE	3,500.00	
101-850-720-000	LIFE & DIS INSURANCE BENEFITS	7,505.28	
101-850-721-000	DENTAL INSURANCE BENEFITS	12,646.01	
101-850-721-200	MI CLAIMS TAX - DENTAL	108.04	
101-850-722-000	PENSION PLAN BENEFITS	112,719.49	
101-850-723-000	OTHER BENEFITS	3,000.00	
101-901-970-000	CAPITAL OUTLAY - FFE	68,371.80	
101-901-971-000	CAPITAL OUTLAY - LAND	922.34	
101-901-974-000	CAPITAL OUTLAY - LANDIMP	254,892.62	
101-901-975-000	CAPITAL OUTLAY - BLDGIMP	59,784.14	
101-965-999-004	TRANSFER TO CEMETERY TRUST FUN	2,775.00	
101-965-999-005	TRANSFER TO DAM MAJOR REPAIR	30,000.00	
101-965-999-006	TRANSFER TO FIRE FUND	400,000.00	
Total Fund 101 - GENERAL FUND		15,447,539.90	15,447,539.90

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BALANCE SHEET FOR CASCADE CHARTER TOWNSHIP  
 Period Ending 12/31/2017  
 PRE-AUDIT

GL Number	Description	Balance
Fund 101 - GENERAL FUND		
*** Assets ***		
101-000-001-001	CASH DRAWER-PETTY CASH	175.00
101-000-001-103	CASH- CHEMICAL WIRE# 7505	1.00
101-000-001-190	CHEMICAL -CASH OPER	637,180.53
101-000-001-301	COMERICAL PAPER- GENERAL FUND	988,975.00
101-000-001-500	GF CASH - K.C. POOL	3,508,476.48
101-000-003-001	CD - INDEPENDENT BANK 9019789418 M9/16	312,032.12
101-000-003-005	CD - COAMERICA M 8/17, 8/18	1,028,848.86
101-000-003-019	CD- FLAGSTAR BANK M5/22/2018	766,868.79
101-000-003-022	CD- MERCANTILE BANK OF MI 7/20/2018	510,599.72
101-000-003-025	CD - MACATAWA BANK M 11/21/2018	256,761.60
101-000-003-028	CONSUMER CREDIT UNION M 7/08/2019	255,959.76
101-000-003-033	CD - PRIVATE BANK M3/15/2020	500,000.00
101-000-003-036	HORIZON BANK CD M3/9/2019	500,000.00
101-000-003-038	GRAND RIVER BANK CD ACCT 2917 M6/19/2019	500,000.00
101-000-020-000	TAXES RECEIVABLE	767,199.01
101-000-040-000	ACCOUNTS RECEIVABLE	130,453.55
101-000-084-000	DUE FROM OTHER FUNDS	827,895.38
101-000-123-000	PREPAID EXPENSE	13,092.33
	<b>Total Assets</b>	<b>11,504,519.13</b>
*** Liabilities ***		
101-000-202-000	ACCOUNTS PAYABLE	172,245.72
101-000-204-000	ACCRUED PAYROLL	18,365.79
101-000-211-000	CONTRACT PAYABLE-RETAINAGE	9,433.70
101-000-231-220	DEPENDENT LIFE W/H	(117.32)
101-000-231-221	ADDITIONAL LIFE W/H	(1,195.96)
101-000-231-222	SHORT TERM DISABILITY W/H	165.41
101-000-231-224	LONG TERM CARE W/H	(72.50)
101-000-339-000	DEFERRED REVENUE	1,594,826.43
	<b>Total Liabilities</b>	<b>1,793,651.27</b>
*** Fund Balance ***		
101-000-390-000	FUND BALANCE - UNASSIGNED	8,092,598.10
101-000-391-001	FUND BALANCE - COMMITTED/PENSION 2012	499,543.00
101-000-391-003	FUND BALANCE - COMMITTED/ PP TAX 2012	475,000.00
101-000-393-000	FUND BALANCE - NONSPENDABLE	13,092.33
	<b>Total Fund Balance</b>	<b>9,080,233.43</b>
	Beginning Fund Balance	9,080,233.43
	Net of Revenues VS Expenditures	630,634.43
	Ending Fund Balance	9,710,867.86
	<b>Total Liabilities And Fund Balance</b>	<b>11,504,519.13</b>

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REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED	ENCUMBERED	% BDGT
		12/31/2016	ORIGINAL	2017	12/31/2017	MONTH 12/31/17			
		NORM (ABNORM)	BUDGET	AMENDED BUDGET	NORM (ABNORM)	INCR (DECR)	AVAIL BALANCE	YEAR-TO-DATE	USED
Fund 151 - CEMETERY TRUST FUND									
Revenues									
Dept 000									
151-000-600-634	CEMETERY-OPENINGS AND CLOSINGS	0.00	1,500.00	1,500.00	0.00	0.00	1,500.00	0.00	0.00
151-000-600-636	CEMETERY-CARE FEE	4,070.00	4,000.00	4,000.00	3,725.00	50.00	275.00	0.00	93.13
151-000-665-000	INTEREST ON INVESTMENTS	397.24	350.00	350.00	485.08	128.84	(115.06)	0.00	138.59
151-000-699-101	TRANSFER FROM GENERAL FUND	1,575.00	0.00	0.00	2,775.00	2,775.00	(2,775.00)	0.00	100.00
Total Dept 000		6,042.24	5,850.00	5,850.00	6,985.08	2,953.84	(1,135.06)	0.00	119.40
TOTAL REVENUES		6,042.24	5,850.00	5,850.00	6,985.08	2,953.84	(1,135.08)	0.00	119.40
Expenditures									
Dept 276 - CEMETERY									
151-276-787-000	OTHER EXPENSES	5.59	250.00	750.00	512.64	0.00	237.36	0.00	68.35
151-276-931-000	MAINT & REPAIR/IMPROVEMENTS	495.72	2,000.00	2,000.00	0.00	0.00	2,000.00	0.00	0.00
Total Dept 276 - CEMETERY		501.31	2,250.00	2,750.00	512.64	0.00	2,237.36	0.00	18.64
TOTAL EXPENDITURES		501.31	2,250.00	2,750.00	512.64	0.00	2,237.36	0.00	18.64
Fund 151 - CEMETERY TRUST FUND:									
TOTAL REVENUES		6,042.24	5,850.00	5,850.00	6,985.08	2,953.84	(1,135.08)	0.00	119.40
TOTAL EXPENDITURES		501.31	2,250.00	2,750.00	512.64	0.00	2,237.36	0.00	18.64
NET OF REVENUES & EXPENDITURES		5,540.93	3,600.00	3,100.00	6,472.44	2,953.84	(1,372.44)	0.00	208.79
BEG. FUND BALANCE		98,235.38	98,776.31	98,776.31	98,776.31				
END FUND BALANCE		98,776.31	102,376.31	101,876.31	105,248.75				

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TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 151 - CEMETERY TRUST FUND			
151-000-015-005	MONEY MARKET LAKE MICH CR UN 12/15	105,248.75	
151-000-390-000	FUND BALANCE - NONSPENDABLE		93,776.31
151-000-391-001	FUND BALANCE-COMMITTED WHITNEYVILLE M 11		5,000.00
151-000-600-636	CEMETERY-CARE FEE		3,725.00
151-000-665-000	INTEREST ON INVESTMENTS		485.08
151-000-699-101	TRANSFER FROM GENERAL FUND		2,775.00
151-276-787-000	OTHER EXPENSES	512.64	
Total Fund 151 - CEMETERY TRUST FUND		105,761.39	105,761.39

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BALANCE SHEET FOR CASCADE CHARTER TOWNSHIP  
Period Ending 12/31/2017  
PRE-AUDIT

<u>GL Number</u>	<u>Description</u>	<u>Balance</u>
Fund 151 - CEMETERY TRUST FUND		
*** Assets ***		
151-000-015-005	MONEY MARKET LAKE MICH CR UN 12/15	105,248.75
	Total Assets	<u>105,248.75</u>
*** Liabilities ***		
	Total Liabilities	<u>0.00</u>
*** Fund Balance ***		
151-000-390-000	FUND BALANCE - NONSPENDABLE	93,776.31
151-000-391-001	FUND BALANCE-COMMITTED WHITNEYVILLE M 11	5,000.00
	Total Fund Balance	<u>98,776.31</u>
	Beginning Fund Balance	98,776.31
	Net of Revenues VS Expenditures	6,472.44
	Ending Fund Balance	<u>105,248.75</u>
	Total Liabilities And Fund Balance	<u>105,248.75</u>

REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR		UNENCUMBERED AVAIL BALANCE	ENCUMBERED YEAR-TO-DATE	% BGD USED
		12/31/2016 NORM (ABNORM)	ORIGINAL BUDGET	2017 AMENDED BUDGET	12/31/2017 NORM (ABNORM)	MONTH 12/31/17 INCR (DECR)				
Fund 206 - FIRE FUND										
Revenues										
Dept 000										
206-000-401-402	TAX LEVY	1,652,094.61	1,692,175.00	1,694,257.00	1,694,987.29	0.00	(729.29)	0.00	100.04	
206-000-401-410	PERSONAL PROPERTY TAX	166,079.02	131,800.00	131,800.00	129,582.27	0.00	2,217.73	0.00	98.32	
206-000-401-412	DELINQUENT TAXES-LEVY	11,301.51	9,000.00	9,000.00	4,946.86	0.00	4,053.14	0.00	54.97	
206-000-401-437	ABATEMENT TAXES-LEVY	16,318.32	8,486.00	8,773.00	8,773.03	0.00	(0.73)	0.00	100.00	
206-000-401-441	COMMUNITY STABILIZATION SHARE TAX	0.00	33,266.00	45,836.00	45,835.77	45,835.77	0.23	0.00	100.00	
206-000-401-445	PENALTIES & INTEREST ON TAXES	268.48	300.00	300.00	328.63	0.00	(28.63)	0.00	109.54	
206-000-655-661	DISTRICT COURT FINES	46.20	500.00	500.00	33.00	33.00	467.00	0.00	6.60	
206-000-665-000	INTEREST REVENUE	22,504.06	18,725.00	24,220.00	27,013.40	548.20	(2,793.40)	0.00	111.53	
206-000-665-210	INT ON INVESTMENT COAMERICA PIR1489B3	0.00	0.00	3,750.00	3,750.00	0.00	0.00	0.00	100.00	
206-000-671-671	MISCELLANEOUS INCOME	0.00	250.00	250.00	89.00	80.00	161.00	0.00	35.60	
206-000-671-675	DONATIONS	100.00	500.00	500.00	0.00	0.00	500.00	0.00	0.00	
206-000-671-683	REIMBURSEMENTS/REFUNDS	0.00	250.00	250.00	21.80	21.80	228.20	0.00	8.72	
206-000-673-000	SALE OF ASSETS	0.00	2,000.00	2,000.00	7,041.00	7,041.00	(5,041.00)	0.00	352.05	
206-000-699-000	TRANSFER FROM GENERAL FUND	400,000.00	400,000.00	400,000.00	400,000.00	300,000.01	0.00	0.00	100.00	
Total Dept 000		2,268,712.20	2,297,252.00	2,321,436.00	2,322,402.05	353,559.78	(66.05)	0.00	100.04	
TOTAL REVENUES		2,268,712.20	2,297,252.00	2,321,436.00	2,322,402.05	353,559.78	(66.05)	0.00	100.04	
Expenditures										
Dept 336 - FIRE DEPARTMENT										
206-336-703-000	FIREFIGHTERS SALARY	649,273.05	706,694.00	706,694.00	695,867.08	66,246.73	10,826.92	0.00	98.47	
206-336-705-000	FIRE CHIEF	85,880.21	86,897.00	86,897.00	46,618.17	6,742.37	40,278.83	0.00	53.65	
206-336-707-000	LIEUTENANT-RR	68,453.83	71,766.00	71,766.00	80,608.00	6,895.25	(8,342.00)	0.00	112.32	
206-336-708-000	LIEUTENANT-TS	61,294.65	63,309.00	63,309.00	67,395.56	4,707.04	(4,085.56)	0.00	106.45	
206-336-708-200	LIEUTENANT-DV	70,968.00	71,766.00	71,766.00	78,326.58	6,197.82	(5,500.50)	0.00	109.14	
206-336-708-400	FIRE INSPECTOR	64,804.37	66,145.00	66,145.00	65,673.20	5,126.00	471.80	0.00	99.29	
206-336-709-000	WAGES/SALARIES OVERTIME	50,323.69	45,000.00	90,000.00	78,726.17	(116.57)	11,273.83	0.00	87.47	
206-336-710-000	FIRE PAID ON CALL	184,599.58	173,915.00	138,915.00	129,265.96	13,694.49	9,649.04	0.00	93.05	
206-336-723-000	FIRE MEMBERSHIP AND DUES	535.00	950.00	950.00	970.00	340.00	(20.00)	0.00	102.11	
206-336-724-000	FIRE EDUCATION	5,315.47	8,000.00	8,000.00	3,882.22	140.00	4,117.78	0.00	48.53	
206-336-725-000	FIRE TUITION	2,730.00	2,500.00	6,000.00	4,454.16	0.00	1,545.84	0.00	74.24	
206-336-726-000	FIRE TRAINING	3,291.07	10,955.00	10,955.00	2,600.15	1,358.00	7,946.75	408.10	27.46	
206-336-727-000	FIRE OFFICE SUPPLIES	657.69	3,000.00	3,000.00	3,379.52	469.80	(381.02)	1.50	112.70	
206-336-738-000	FIRE MAINT SUPPLIES	0.00	1,000.00	1,000.00	821.70	0.00	178.30	0.00	82.17	
206-336-745-000	FIRE FUELS	11,873.49	20,000.00	20,000.00	14,342.31	2,469.51	5,657.69	0.00	71.71	
206-336-768-000	FIRE UNIFORMS	4,778.58	9,000.00	9,000.00	7,390.75	2,678.46	1,590.25	19.00	82.33	
206-336-787-000	FIRE OTHER EXPENSES	1,572.11	2,200.00	2,200.00	1,806.10	462.53	393.90	0.00	82.10	
206-336-802-000	FIRE CONTRACTUAL SERVICE	7,167.22	6,900.00	6,900.00	3,559.04	2,078.00	(2,115.44)	5,506.00	131.38	
206-336-802-100	FIRE DISPATCH SERVICE	21,007.50	29,857.00	31,267.00	31,267.00	0.00	0.00	0.00	100.00	
206-336-803-000	FIRE FIGHTER HIRING	1,142.00	2,000.00	2,000.00	1,595.00	60.00	405.00	0.00	79.75	
206-336-807-000	FIRE AUDIT FEES & SERVICES	2,685.00	2,775.00	2,775.00	2,730.00	0.00	45.00	0.00	98.38	
206-336-810-000	FIRE PROPERTY/CON/VEHICLE INS	13,225.80	13,930.00	14,555.00	14,555.10	0.00	(0.10)	0.00	100.00	
206-336-826-000	FIRE LEGAL FEES	0.00	1,000.00	1,000.00	0.00	0.00	1,000.00	0.00	0.00	
206-336-887-000	FIRE PUBLIC RELATIONS	2,923.83	1,500.00	1,500.00	1,661.56	378.08	(131.56)	0.00	110.77	
206-336-901-000	FIRE PUBLICATIONS	1,074.91	2,500.00	2,500.00	1,451.68	124.95	1,048.32	0.00	58.07	
206-336-921-002	FIRE ELECTRICITY/BUTTRICK	7,591.84	9,000.00	9,000.00	7,422.61	1,223.72	1,577.99	0.00	82.47	
206-336-923-002	FIRE HEATING/BUTTRICK	2,565.96	4,320.00	4,320.00	2,353.71	819.75	1,966.29	0.00	54.48	
206-336-924-000	FIRE PHONES	2,896.58	7,000.00	7,000.00	3,455.39	470.90	3,544.61	0.00	49.36	
206-336-924-002	FIRE PHONES/BUTTRICK	2,240.15	3,000.00	3,000.00	2,132.78	200.14	824.71	42.51	77.51	
206-336-924-100	CELL PHONES/DATA-MODEMS	5,503.12	4,000.00	4,000.00	7,354.85	653.96	(3,354.85)	0.00	183.87	
206-336-927-002	FIRE WATER/BUTTRICK	1,204.91	1,750.00	1,750.00	1,533.93	385.26	216.07	0.00	87.65	
206-336-932-000	FIRE OFF EQUIP & COMPUTER REPA	2,000.00	4,000.00	4,000.00	3,378.00	0.00	622.00	0.00	84.45	
206-336-936-000	FIRE STATION MAINT	18,541.95	16,000.00	31,000.00	30,395.46	7,718.79	(1,396.60)	2,001.22	104.51	
206-336-936-002	FIRE STATION MAINT/BUTTRICK	35,932.50	27,500.00	42,500.00	36,949.11	1,867.19	5,184.17	366.72	87.80	
206-336-937-000	FIRE RADIO MAINT	2,226.20	5,500.00	5,500.00	530.56	282.00	4,969.44	0.00	9.65	
206-336-938-000	FIRE EQUIPMENT MAINT	36,977.02	48,000.00	48,000.00	41,477.47	37,112.50	4,467.01	2,055.52	90.69	
206-336-939-000	FIRE COPIER/LEASE/SERVICE	878.10	900.00	1,700.00	1,680.74	361.53	19.26	0.00	98.87	
206-336-941-000	FIRE POSTAGE & MACHINE LEASE	600.00	900.00	900.00	600.00	0.00	300.00	0.00	66.67	
206-336-950-000	PROPERTY TAX REFUNDS	1,262.72	750.00	750.00	65.76	0.00	684.24	0.00	8.77	
206-336-957-000	FIRE PHYSICAL EXAMS	12,768.00	16,000.00	16,000.00	13,347.52	203.00	2,652.48	0.00	83.42	
206-336-958-000	FIRE SUPPLEMENTAL EQUIPMENT	7,323.73	13,000.00	13,000.00	8,280.28	481.71	2,010.71	2,709.01	84.53	
206-336-959-000	FIRE PROTECTIVE CLOTHING	18,046.50	22,500.00	22,500.00	3,521.23	697.13	18,978.74	0.03	15.65	
206-336-981-000	SMALL EQUIPMENT/FURNITURE	10,902.31	26,780.00	26,780.00	13,155.72	439.80	12,994.29	629.99	51.48	
Total Dept 336 - FIRE DEPARTMENT		1,485,038.64	1,614,459.00	1,660,794.00	1,516,582.13	172,469.84	130,472.27	13,739.60	92.14	
Dept 850 - BENEFITS/INSURANCE										
206-850-715-000	FICA-EMPLOYER	90,593.54	98,340.00	98,340.00	90,820.31	7,977.40	7,519.69	0.00	92.35	
206-850-717-000	WORKERS COMP INSURANCE	62,984.96	53,310.00	53,310.00	52,856.32	2,038.92	453.68	0.00	99.15	
206-850-718-000	VISION INSURANCE BENEFITS	2,339.67	2,558.00	2,558.00	2,310.08	189.82	247.92	0.00	90.31	
206-850-719-000	HEALTH INSURANCE BENEFITS	105,131.27	122,268.00	122,268.00	118,408.35	(1,425.30)	3,859.65	0.00	96.84	

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REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED	ENCUMBERED	% BDGT
		12/31/2016	ORIGINAL	2017	12/31/2017	MONTH 12/31/17			
		NORM (ABNORM)	BUDGET	AMENDED BUDGET	NORM (ABNORM)	INCR (DECR)	AVAIL BALANCE	YEAR-TO-DATE	USED
206-850-719-100	OPT-OUT INSURANCE	5,000.00	6,000.00	6,000.00	3,000.00	500.00	3,000.00	0.00	50.00
206-850-719-200	MI CLAIMS TAX- HEALTH	0.00	1,400.00	1,400.00	0.00	0.00	1,400.00	0.00	0.00
206-850-720-000	LIFE & DISABILITY INSURANCE	8,337.40	9,813.00	9,813.00	8,651.04	516.71	1,161.96	0.00	88.16
206-850-720-100	FIRE CASUALTY INSURANCE	6,171.00	6,200.00	6,200.00	6,171.00	0.00	29.00	0.00	99.53
206-850-721-000	DENTAL INSURANCE BENEFITS	19,047.52	21,114.00	21,114.00	20,026.69	(308.12)	1,087.31	0.00	94.85
206-850-721-200	MI CLAIMS TAX - DENTAL	285.49	350.00	350.00	174.94	0.00	175.06	0.00	49.98
206-850-722-000	PENSION PLAN BENEFITS	106,040.46	111,158.00	121,158.00	117,168.54	9,829.21	3,989.46	0.00	96.71
Total Dept 850 - BENEFITS/INSURANCE		405,931.31	432,511.00	442,511.00	419,587.27	16,317.64	22,923.73	0.00	94.82
Dept 901 - CAPITAL OUTLAY									
206-901-970-000	CAPITAL OUTLAY - FFE	0.00	428,200.00	428,200.00	388,130.97	253,729.25	23,227.78	16,841.25	94.58
206-901-974-000	CAPITAL OUTLAY - LAND IMP	0.00	100,570.00	100,570.00	70,999.93	32,441.21	29,570.07	0.00	70.60
206-901-975-000	CAPITAL OUTLAY - BLDGIMP	11,750.00	102,000.00	102,000.00	29,901.85	24,857.65	72,098.15	0.00	29.32
206-901-980-000	FIRE- OFFICE EQUIPMENT & FURNITURE	61,025.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
206-901-981-000	CAPITAL OUTLAY - VEHICLES	80,958.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Dept 901 - CAPITAL OUTLAY		153,733.63	630,770.00	630,770.00	489,032.75	311,028.11	124,896.00	16,841.25	80.20
TOTAL EXPENDITURES		2,044,703.58	2,677,740.00	2,734,075.00	2,425,202.15	499,815.59	278,292.00	30,580.85	89.82
Fund 206 - FIRE FUND:									
TOTAL REVENUES		2,268,712.20	2,297,252.00	2,321,436.00	2,322,402.05	353,559.78	(966.05)	0.00	100.04
TOTAL EXPENDITURES		2,044,703.58	2,677,740.00	2,734,075.00	2,425,202.15	499,815.59	278,292.00	30,580.85	89.82
NET OF REVENUES & EXPENDITURES		224,008.62	(380,488.00)	(412,639.00)	(102,800.10)	(146,255.81)	(279,058.05)	(30,580.85)	32.32
BEG. FUND BALANCE		2,431,699.37	2,655,707.99	2,655,707.99	2,655,707.99				
END FUND BALANCE		2,655,707.99	2,275,219.99	2,243,068.99	2,552,907.89				

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GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 206 - FIRE FUND			
206-000-001-001	CASH DRAWER-PETTY CASH	80.00	
206-000-001-100	CASH -CHEM	297,800.83	
206-000-001-700	CASH - GIFT CARDS	200.00	
206-000-003-000	CASH	0.05	
206-000-003-015	CD - COMMUNITY WEST CR UN	5.00	
206-000-003-024	FIRST NATL BANK OF AMERICA #303659 7/15	531,427.61	
206-000-003-025	CD - MACATAWA BANK	300,000.00	
206-000-003-032	COMMUNITY CHOICE CR UN M 2/16/19	252,902.29	
206-000-003-035	ADVENTURE CR UNION	255,688.63	
206-000-003-039	LEVEL ONE BANK CD M11/21/2018	262,828.10	
206-000-015-005	MONEY MARKET LAKE MICH CR UN	464,200.97	
206-000-020-000	TAXES RECEIVABLE	864,899.09	
206-000-084-000	DUE FROM OTHER FUNDS	1,030,833.24	
206-000-120-210	COAMERICA INVEST- FHL P1R148983 9/3/19	500,000.00	
206-000-123-000	PREPAID EXPENSE	12,575.94	
206-000-202-000	ACCOUNTS PAYABLE		300,003.81
206-000-204-000	ACCRUED PAYROLL		22,089.10
206-000-211-000	CONTRACT PAYABLE-RETAINAGE		7,075.27
206-000-214-000	DUE TO OTHER FUNDS		224.86
206-000-231-205	COBRA	4,591.51	
206-000-339-000	DEFERRED REVENUE		1,895,732.33
206-000-390-000	FUND BALANCE - RESTRICTED		1,785,132.05
206-000-391-003	FUND BALANCE - COMMITTED RESCUE VEH 12		198,000.00
206-000-391-004	FUND BALANCE - COMMITTTED/ PP TAX 2012		660,000.00
206-000-393-000	FUND BALANCE - NONSPENDABLE		12,575.94
206-000-401-402	TAX LEVY		1,694,987.29
206-000-401-410	PERSONAL PROPERTY TAX		129,582.27
206-000-401-412	DELINQUENT TAXES-LEVY		4,946.86
206-000-401-437	ABATEMENT TAXES-LEVY		8,773.03
206-000-401-441	COMMUNITY STABILIZATION SHARE TAX		45,835.77
206-000-401-445	PENALTIES & INTEREST ON TAXES		328.63
206-000-655-661	DISTRICT COURT FINES		33.00
206-000-665-000	INTEREST REVENUE		27,013.40
206-000-665-210	INT ON INVESTMENT COAMERICA PIR148983		3,750.00
206-000-671-671	MISCELLANEOUS INCOME		89.00
206-000-671-683	REIMBURSEMENTS/REFUNDS		21.80
206-000-673-000	SALE OF ASSETS		7,041.00
206-000-699-000	TRANSFER FROM GENERAL FUND		400,000.00
206-336-703-000	FIREFIGHTERS SALARY	695,867.08	
206-336-705-000	FIRE CHIEF	46,618.17	
206-336-707-000	LIEUTENANT-RR	80,608.00	
206-336-708-000	LIEUTENANT-TS	67,395.56	
206-336-708-200	LIEUTENANT-DV	78,326.58	
206-336-708-400	FIRE INSPECTOR	65,673.20	
206-336-709-000	WAGES/SALARIES OVERTIME	78,726.17	
206-336-710-000	FIRE PAID ON CALL	129,265.96	
206-336-723-000	FIRE MEMBERSHIP AND DUES	970.00	
206-336-724-000	FIRE EDUCATION	3,882.22	

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GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
206-336-725-000	FIRE TUITION	4,454.16	
206-336-726-000	FIRE TRAINING	2,600.15	
206-336-727-000	FIRE OFFICE SUPPLIES	3,379.52	
206-336-738-000	FIRE MAINT SUPPLIES	821.70	
206-336-745-000	FIRE FUELS	14,342.31	
206-336-768-000	FIRE UNIFORMS	7,390.75	
206-336-787-000	FIRE OTHER EXPENSES	1,806.10	
206-336-802-000	FIRE CONTRACTUAL SERVICE	3,559.04	
206-336-802-100	FIRE DISPATCH SERVICE	31,267.00	
206-336-803-000	FIRE FIGHTER HIRING	1,595.00	
206-336-807-000	FIRE AUDIT FEES & SERVICES	2,730.00	
206-336-810-000	FIRE PROPERTY/CON/VECHICLE INS	14,555.10	
206-336-887-000	FIRE PUBLIC RELATIONS	1,661.56	
206-336-901-000	FIRE PUBLICATIONS	1,451.68	
206-336-921-002	FIRE ELECTRICITY/BUTTRICK	7,422.61	
206-336-923-002	FIRE HEATING/BUTTRICK	2,353.71	
206-336-924-000	FIRE PHONES	3,455.39	
206-336-924-002	FIRE PHONES/BUTTRICK	2,132.78	
206-336-924-100	CELL PHONES/DATA-MODEMS	7,354.85	
206-336-927-002	FIRE WATER/BUTTRICK	1,533.93	
206-336-932-000	FIRE OFF EQUIP & COMPUTER REPA	3,378.00	
206-336-936-000	FIRE STATION MAINT	30,395.46	
206-336-936-002	FIRE STATION MAINT/BUTTRICK	36,949.11	
206-336-937-000	FIRE RADIO MAINT	530.56	
206-336-938-000	FIRE EQUIPMENT MAINT	41,477.47	
206-336-939-000	FIRE COPIER/LEASE/SERVICE	1,680.74	
206-336-941-000	FIRE POSTAGE & MACHINE LEASE	600.00	
206-336-950-000	PROPERTY TAX REFUNDS	65.76	
206-336-957-000	FIRE PHYSICAL EXAMS	13,347.52	
206-336-958-000	FIRE SUPPLEMENTAL EQUIPMENT	8,280.28	
206-336-959-000	FIRE PROTECTIVE CLOTHING	3,521.23	
206-336-981-000	SMALL EQUIPMENT/FURNITURE	13,155.72	
206-850-715-000	FICA-EMPLOYER	90,820.31	
206-850-717-000	WORKERS COMP INSURANCE	52,856.32	
206-850-718-000	VISION INSURANCE BENEFITS	2,310.08	
206-850-719-000	HEALTH INSURANCE BENEFITS	118,408.35	
206-850-719-100	OPT-OUT INSURANCE	3,000.00	
206-850-720-000	LIFE & DISABILITY INSURANCE	8,651.04	
206-850-720-100	FIRE CASUALTY INSURANCE	6,171.00	
206-850-721-000	DENTAL INSURANCE BENEFITS	20,026.69	
206-850-721-200	MI CLAIMS TAX - DENTAL	174.94	
206-850-722-000	PENSION PLAN BENEFITS	117,168.54	
206-901-970-000	CAPITAL OUTLAY - FFE	388,130.97	
206-901-974-000	CAPITAL OUTLAY - LAND IMP	70,999.93	
206-901-975-000	CAPITAL OUTLAY - BLDGIMP	29,901.85	
Total Fund 206 - FIRE FUND		7,203,235.41	7,203,235.41

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BALANCE SHEET FOR CASCADE CHARTER TOWNSHIP  
Period Ending 12/31/2017  
PRE-AUDIT

GL Number	Description	Balance
Fund 206 - FIRE FUND		
*** Assets ***		
206-000-001-001	CASH DRAWER-PETTY CASH	80.00
206-000-001-100	CASH -CHEM	297,800.83
206-000-001-700	CASH - GIFT CARDS	200.00
206-000-003-000	CASH	0.05
206-000-003-015	CD - COMMUNITY WEST CR UN	5.00
206-000-003-024	FIRST NATL BANK OF AMERICA #303659 7/15	531,427.61
206-000-003-025	CD - MACATAWA BANK	300,000.00
206-000-003-032	COMMUNITY CHOICE CR UN M 2/16/19	252,902.29
206-000-003-035	ADVENTURE CR UNION	255,688.63
206-000-003-039	LEVEL ONE BANK CD M11/21/2018	262,828.10
206-000-015-005	MONEY MARKET LAKE MICH CR UN	464,200.97
206-000-020-000	TAXES RECEIVABLE	864,899.09
206-000-084-000	DUE FROM OTHER FUNDS	1,030,833.24
206-000-120-210	COAMERICA INVEST- FHL P1R148983 9/3/19	500,000.00
206-000-123-000	PREPAID EXPENSE	12,575.94
	Total Assets	4,773,441.75
*** Liabilities ***		
206-000-202-000	ACCOUNTS PAYABLE	300,003.81
206-000-204-000	ACCRUED PAYROLL	22,089.10
206-000-211-000	CONTRACT PAYABLE-RETAINAGE	7,075.27
206-000-214-000	DUE TO OTHER FUNDS	224.86
206-000-231-205	COBRA	(4,591.51)
206-000-339-000	DEFERRED REVENUE	1,895,732.33
	Total Liabilities	2,220,533.86
*** Fund Balance ***		
206-000-390-000	FUND BALANCE - RESTRICTED	1,785,132.05
206-000-391-003	FUND BALANCE - COMMITTED RESCUE VEH 12	198,000.00
206-000-391-004	FUND BALANCE - COMMITTED/ PP TAX 2012	660,000.00
206-000-393-000	FUND BALANCE - NONSPENDABLE	12,575.94
	Total Fund Balance	2,655,707.99
	Beginning Fund Balance	2,655,707.99
	Net of Revenues VS Expenditures	(102,800.10)
	Ending Fund Balance	2,552,907.89
	Total Liabilities And Fund Balance	4,773,441.75

REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED	ENCUMBERED	% BDGT
		12/31/2016	ORIGINAL	2017	12/31/2017	MONTH 12/31/17			
		NORM (ABNORM)	BUDGET	AMENDED BUDGET	NORM (ABNORM)	INCR (DECR)	AVAIL BALANCE	YEAR-TO-DATE	USED
Fund 207 - POLICE FUND									
Revenues									
Dept 000									
207-000-401-402	TAX LEVY	576,675.64	590,650.00	590,650.00	591,648.28	0.00	(978.26)	0.00	100.17
207-000-401-410	PERSONAL PROPERTY TAX	57,971.78	46,000.00	46,000.00	45,231.83	0.00	768.17	0.00	98.33
207-000-401-412	DELINQUENT TAXES-LEVY	3,944.86	3,000.00	3,000.00	1,726.51	0.00	1,273.49	0.00	57.55
207-000-401-437	ABATEMENT TAXES-LEVY	5,696.15	2,962.00	2,962.00	3,062.30	0.00	(106.15)	0.00	103.39
207-000-401-441	COMMUNITY STABILIZATION SHARE TAX	0.00	11,612.00	8,681.00	8,681.33	8,681.33	(0.33)	0.00	100.00
207-000-401-445	INTEREST & PENALTIES ON TAX	93.63	120.00	120.00	114.70	0.00	5.30	0.00	95.58
207-000-665-000	INTEREST REVENUE	29,869.90	13,000.00	13,000.00	12,075.51	316.18	924.49	0.00	92.89
Total Dept 000		674,251.96	667,344.00	664,413.00	662,540.46	8,997.51	1,872.54	0.00	99.72
TOTAL REVENUES		674,251.96	667,344.00	664,413.00	662,540.46	8,997.51	1,872.54	0.00	99.72
Expenditures									
Dept 301 - POLICE DEPARTMENT									
207-301-787-000	OTHER EXPENSES	0.00	0.00	7,500.00	5,354.00	0.00	2,146.00	0.00	71.39
207-301-801-000	SHERIFF PROTECTION	609,207.89	626,526.00	626,526.00	637,774.83	135,606.37	(11,248.83)	0.00	101.80
207-301-950-000	PROPERTY TAX REFUNDS	440.78	250.00	250.00	22.95	0.00	227.05	0.00	9.18
Total Dept 301 - POLICE DEPARTMENT		609,648.67	626,776.00	634,276.00	643,151.78	135,606.37	(8,875.78)	0.00	101.40
TOTAL EXPENDITURES		609,648.67	626,776.00	634,276.00	643,151.78	135,606.37	(8,275.79)	0.00	101.40
Fund 207 - POLICE FUND:									
TOTAL REVENUES		674,251.96	667,344.00	664,413.00	662,540.46	8,997.51	1,872.54	0.00	99.72
TOTAL EXPENDITURES		609,648.67	626,776.00	634,276.00	643,151.78	135,606.37	(8,875.78)	0.00	101.40
NET OF REVENUES & EXPENDITURES		64,603.29	40,568.00	30,137.00	19,388.68	(125,008.86)	10,748.32	0.00	64.34
BEG. FUND BALANCE		1,219,182.08	1,283,785.37	1,283,785.37	1,283,785.37				
END FUND BALANCE		1,283,785.37	1,324,353.37	1,313,922.37	1,303,174.05				

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TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 207 - POLICE FUND			
207-000-003-000	CASH-POLICE FUND - 53RD SECURITIES	0.05	
207-000-003-027	CD - NORTHPOINTE BANK 10/08/2018	257,566.39	
207-000-003-029	CD - FIRST COMMUNITY BANK M3/10/2020	250,000.00	
207-000-003-033	CD - PRIVATE BANK	759,534.49	
207-000-015-019	POLICE M/M FLAGSTAR BANK	121,247.17	
207-000-020-000	TAXES RECEIVABLE	301,901.36	
207-000-084-000	DUE FROM OTHER FUNDS	359,819.51	
207-000-202-000	ACCOUNTS PAYABLE		85,174.05
207-000-339-000	DEFERRED REVENUE		661,720.87
207-000-390-000	FUND BALANCE - RESTRICTED		1,053,785.37
207-000-391-001	FUND BALANCE - COMMITTED/ PP TAX 2012		230,000.00
207-000-401-402	TAX LEVY		591,648.28
207-000-401-410	PERSONAL PROPERTY TAX		45,231.83
207-000-401-412	DELINQUENT TAXES-LEVY		1,726.51
207-000-401-437	ABATEMENT TAXES-LEVY		3,062.30
207-000-401-441	COMMUNITY STABILIZATION SHARE TAX		8,681.33
207-000-401-445	INTEREST & PENALTIES ON TAX		114.70
207-000-665-000	INTEREST REVENUE		12,075.51
207-301-787-000	OTHER EXPENSES	5,354.00	
207-301-801-000	SHERIFF PROTECTION	637,774.83	
207-301-950-000	PROPERTY TAX REFUNDS	22.95	
Total Fund 207 - POLICE FUND		2,693,220.75	2,693,220.75

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BALANCE SHEET FOR CASCADE CHARTER TOWNSHIP

Period Ending 12/31/2017

PRE-AUDIT

<u>GL Number</u>	<u>Description</u>	<u>Balance</u>
Fund 207 - POLICE FUND		
*** Assets ***		
207-000-003-000	CASH-POLICE FUND - 53RD SECURITIES	0.05
207-000-003-027	CD - NORTHPOINTE BANK 10/08/2018	257,566.39
207-000-003-029	CD - FIRST COMMUNITY BANK M3/10/2020	250,000.00
207-000-003-033	CD - PRIVATE BANK	759,534.49
207-000-015-019	POLICE M/M FLAGSTAR BANK	121,247.17
207-000-020-000	TAXES RECEIVABLE	301,901.36
207-000-084-000	DUE FROM OTHER FUNDS	359,819.51
	Total Assets	2,050,068.97
*** Liabilities ***		
207-000-202-000	ACCOUNTS PAYABLE	85,174.05
207-000-339-000	DEFERRED REVENUE	661,720.87
	Total Liabilities	746,894.92
*** Fund Balance ***		
207-000-390-000	FUND BALANCE - RESTRICTED	1,053,785.37
207-000-391-001	FUND BALANCE - COMMITTED/ PP TAX 2012	230,000.00
	Total Fund Balance	1,283,785.37
	Beginning Fund Balance	1,283,785.37
	Net of Revenues VS Expenditures	19,388.68
	Ending Fund Balance	1,303,174.05
	Total Liabilities And Fund Balance	2,050,068.97

REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED	ENCUMBERED	% BDGT
		12/31/2016	ORIGINAL	2017	12/31/2017	MONTH 12/31/17			
		NORM (ABNORM)	BUDGET	AMENDED BUDGET	NORM (ABNORM)	INCR (DECR)	AVAIL BALANCE	YEAR-TO-DATE	USED
Fund 208 - HAZMAT FUND									
Revenues									
Dept 000									
208-000-665-000	HAZMAT INTEREST	160.08	200.00	200.00	124.17	30.37	75.83	0.00	62.09
Total Dept 000		160.08	200.00	200.00	124.17	30.37	75.83	0.00	62.09
TOTAL REVENUES		160.08	200.00	200.00	124.17	30.37	75.83	0.00	62.09
Expenditures									
Dept 344 - HAZMAT									
208-344-726-000	HAZMAT SUPPLIES	0.00	500.00	500.00	381.01	0.00	118.99	0.00	76.20
208-344-787-000	HAZMAT EQUIPMENT REPAIRS	568.98	1,500.00	1,500.00	1,885.43	733.46	(385.43)	0.00	125.70
208-344-789-000	HAZMAT TRAINING	1,395.17	3,000.00	3,000.00	0.00	0.00	3,000.00	0.00	0.00
208-344-958-000	HAZMAT EQUIPMENT	8,022.15	3,000.00	3,000.00	486.05	0.00	2,513.95	0.00	16.20
Total Dept 344 - HAZMAT		9,986.30	8,000.00	8,000.00	2,752.49	733.46	5,247.51	0.00	34.41
TOTAL EXPENDITURES		9,986.30	8,000.00	8,000.00	2,752.49	733.46	5,247.51	0.00	34.41
Fund 208 - HAZMAT FUND:									
TOTAL REVENUES		160.08	200.00	200.00	124.17	30.37	75.83	0.00	62.09
TOTAL EXPENDITURES		9,986.30	8,000.00	8,000.00	2,752.49	733.46	5,247.51	0.00	34.41
NET OF REVENUES & EXPENDITURES		(9,826.22)	(7,800.00)	(7,800.00)	(1,628.32)	(703.03)	(5,171.68)	0.00	33.70
BEG. FUND BALANCE		46,074.35	36,248.13	36,248.13	36,248.13				
END FUND BALANCE		36,248.13	28,448.13	28,448.13	33,619.81				

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TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 208 - HAZMAT FUND			
208-000-015-005	MM LAKE MICH CR UN 112010265771	34,353.27	
208-000-202-000	ACCOUNTS PAYABLE		733.46
208-000-390-000	FUND BALANCE - RESTRICTED		36,248.13
208-000-665-000	HAZMAT INTEREST		124.17
208-344-726-000	HAZMAT SUPPLIES	381.01	
208-344-787-000	HAZMAT EQUIPMENT REPAIRS	1,885.43	
208-344-958-000	HAZMAT EQUIPMENT	486.05	
Total Fund 208 - HAZMAT FUND		37,105.76	37,105.76

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BALANCE SHEET FOR CASCADE CHARTER TOWNSHIP

Period Ending 12/31/2017

PRE-AUDIT

<u>GL Number</u>	<u>Description</u>	<u>Balance</u>
Fund 208 - HAZMAT FUND		
*** Assets ***		
208-000-015-005	MM LAKE MICH CR UN 112010265771	34,353.27
	Total Assets	<u>34,353.27</u>
*** Liabilities ***		
208-000-202-000	ACCOUNTS PAYABLE	733.46
	Total Liabilities	<u>733.46</u>
*** Fund Balance ***		
208-000-390-000	FUND BALANCE - RESTRICTED	36,248.13
	Total Fund Balance	<u>36,248.13</u>
	Beginning Fund Balance	36,248.13
	Net of Revenues VS Expenditures	(2,628.32)
	Ending Fund Balance	<u>33,619.81</u>
	Total Liabilities And Fund Balance	<u>34,353.27</u>

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REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR	UNLNCUMBERED	ENCUMBERED	% BDGT
		12/31/2016	ORIGINAL	2017	12/31/2017	MONTH 12/31/17			
		NORM (ABNORM)	BUDGET	AMENDED BUDGET	NORM (ABNORM)	INCR (DECR)	AVAIL BALANCE	YEAR-TO-DATE	USED
Fund 209 - CCT OPEN SPACE									
Revenues									
Dept 000									
209-000-401-402	TAX LEVY	288,885.03	295,900.00	295,900.00	296,385.47	0.00	(485.47)	0.00	100.16
209-000-401-410	PERSONAL PROPERTY TAX	29,042.22	23,050.00	23,050.00	22,659.64	0.00	390.36	0.00	98.31
209-000-401-412	DELINQUENT TAXES-LEVY	1,976.30	1,700.00	1,700.00	864.85	0.00	835.15	0.00	50.87
209-000-401-437	ABATEMENT TAXES-LEVY	2,853.53	1,485.00	1,485.00	1,534.07	0.00	(40.07)	0.00	103.30
209-000-401-441	COMMUNITY STABILIZATION SHARE TAX	0.00	5,817.00	21,252.00	21,252.18	21,252.18	(6.18)	0.00	100.00
209-000-401-445	INTEREST & PENALTIES ON TAXES	46.93	100.00	100.00	57.39	0.00	42.61	0.00	57.39
209-000-665-000	INTEREST ON INVESTMENTS	4,193.03	400.00	400.00	462.96	18.20	(62.96)	0.00	115.74
209-000-665-408	INTEREST ON HOMEYER FUND	1,765.83	1,750.00	1,750.00	1,773.70	447.91	(23.70)	0.00	101.35
209-000-671-674	DONATIONS - HOMEYER	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
209-000-671-675	DONATIONS	0.00	1,000.00	1,000.00	0.00	0.00	1,000.00	0.00	0.00
209-000-689-000	BOND SALE PROCEEDS	0.00	0.00	0.00	3,050.00	3,050.00	(3,050.00)	0.00	100.00
Total Dept 000		329,762.87	331,202.00	346,637.00	348,040.26	24,768.29	(1,401.74)	0.00	100.40
TOTAL REVENUES		329,762.87	331,202.00	346,637.00	348,040.26	24,768.29	(1,403.26)	0.00	100.40
Expenditures									
Dept 751 - OPEN SPACE PRESERVATION									
209-751-921-000	ELECTRICITY	1,473.83	2,000.00	2,000.00	1,623.99	281.94	376.01	0.00	81.20
209-751-923-000	HEATING/UTILITY	0.00	1,500.00	1,500.00	0.00	0.00	1,500.00	0.00	0.00
209-751-927-000	WATER-SEWER	321.36	500.00	500.00	342.33	90.22	157.67	0.00	68.47
209-751-935-000	PARK MAINTENANCE	1,555.69	20,000.00	34,000.00	27,534.60	11,042.31	6,451.50	13.90	81.03
209-751-950-000	TAX REFUNDS	220.82	150.00	150.00	11.50	0.00	138.50	0.00	7.67
Total Dept 751 - OPEN SPACE PRESERVATION		3,571.70	24,150.00	38,150.00	29,512.42	11,414.47	8,623.68	13.90	77.40
Dept 990 - DEBT SERVICE									
209-990-992-001	BOND PRINCIPAL PAYMENT	210,000.00	215,000.00	215,000.00	215,000.00	0.00	0.00	0.00	100.00
209-990-996-001	INTEREST AND FEES BA 2009	139,958.76	132,784.00	133,058.00	133,057.40	273.64	0.60	0.00	100.00
Total Dept 990 - DEBT SERVICE		349,958.76	347,784.00	348,058.00	348,057.40	273.64	0.60	0.00	100.00
TOTAL EXPENDITURES		353,530.46	371,934.00	386,208.00	377,569.82	11,688.11	8,624.28	13.90	97.77
Fund 209 - CCT OPEN SPACE:									
TOTAL REVENUES		329,762.87	331,202.00	346,637.00	348,040.26	24,768.29	(1,403.26)	0.00	100.40
TOTAL EXPENDITURES		353,530.46	371,934.00	386,208.00	377,569.82	11,688.11	8,624.28	13.90	97.77
NET OF REVENUES & EXPENDITURES		(23,767.59)	(40,732.00)	(40,571.00)	(29,529.56)	13,080.18	(10,027.00)	(13.90)	74.66
BEG. FUND BALANCE		762,813.36	739,045.77	739,045.77	739,045.77				
END FUND BALANCE		739,045.77	698,313.77	699,474.77	709,516.21				

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TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 209 - CCT OPEN SPACE			
209-000-001-100	CASH -CHEM	161,231.14	
209-000-003-015	CD - COMMUNITY WEST CR UN/M 10/15/18	200,000.00	
209-000-015-005	MONEY MARKET LAKE MICH CR UN HOMEYER	356,412.12	
209-000-020-000	TAXES RECEIVABLE	151,239.40	
209-000-040-000	ACCOUNTS RECEIVABLE	3,050.00	
209-000-084-000	DUE FROM OTHER TWP FUNDS	180,250.70	
209-000-202-000	ACCOUNTS PAYABLE		11,177.05
209-000-339-000	DEFERRED REVENUE		331,490.10
209-000-390-000	FUND BALANCE - RESTRICTED		271,173.18
209-000-391-001	FUND BALANCE - COMMITTED/PP TAX 2012		116,000.00
209-000-391-004	FUND BALANCE - COMMITTED HOMEYER 12/15		351,872.59
209-000-401-402	TAX LEVY		296,385.47
209-000-401-410	PERSONAL PROPERTY TAX		22,659.64
209-000-401-412	DELINQUENT TAXES-LEVY		864.85
209-000-401-437	ABATEMENT TAXES-LEVY		1,534.07
209-000-401-441	COMMUNITY STABILIZATION SHARE TAX		21,252.18
209-000-401-445	INTEREST & PENALTIES ON TAXES		57.39
209-000-665-000	INTEREST ON INVESTMENTS		462.96
209-000-665-408	INTEREST ON HOMEYER FUND		1,773.70
209-000-689-000	BOND SALE PROCEEDS		3,050.00
209-751-921-000	ELECTRICITY	1,623.99	
209-751-927-000	WATER-SEWER	342.33	
209-751-935-000	PARK MAINTENANCE	27,534.60	
209-751-950-000	TAX REFUNDS	11.50	
209-990-992-001	BOND PRINCIPAL PAYMENT	215,000.00	
209-990-996-001	INTEREST AND FEES BA 2009	133,057.40	
Total Fund 209 - CCT OPEN SPACE		1,429,753.18	1,429,753.18

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BALANCE SHEET FOR CASCADE CHARTER TOWNSHIP  
Period Ending 12/31/2017  
PRE-AUDIT

GL Number	Description	Balance
Fund 209 - CCT OPEN SPACE		
*** Assets ***		
209-000-001-100	CASH -CHEM	161,231.14
209-000-003-015	CD - COMMUNITY WEST CR UN/M 10/15/18	200,000.00
209-000-015-005	MONEY MARKET LAKE MICH CR UN HOMEYER	356,412.12
209-000-020-000	TAXES RECEIVABLE	151,239.40
209-000-040-000	ACCOUNTS RECEIVABLE	3,050.00
209-000-084-000	DUE FROM OTHER TWP FUNDS	180,250.70
	Total Assets	1,052,183.36
*** Liabilities ***		
209-000-202-000	ACCOUNTS PAYABLE	11,177.05
209-000-339-000	DEFERRED REVENUE	331,490.10
	Total Liabilities	342,667.15
*** Fund Balance ***		
209-000-390-000	FUND BALANCE - RESTRICTED	271,173.18
209-000-391-001	FUND BALANCE - COMMITTED/PP TAX 2012	116,000.00
209-000-391-004	FUND BALANCE - COMMITTED HOMEYER 12/15	351,872.59
	Total Fund Balance	739,045.77
	Beginning Fund Balance	739,045.77
	Net of Revenues VS Expenditures	(29,529.56)
	Ending Fund Balance	709,516.21
	Total Liabilities And Fund Balance	1,052,183.36

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REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED	ENCUMBERED	% BDGT
		12/31/2016	ORIGINAL	2017	12/31/2017	MONTH 12/31/17			
		NORM (ABNORM)	BUDGET	AMENDED BUDGET	NORM (ABNORM)	INCR (DECR)	AVAIL BALANCE	YEAR-TO-DATE	USED
Fund 211 - DAM MAJOR REPAIR FUND									
Revenues									
Dept 000									
211-000-665-000	INTEREST REVENUE	1,172.94	10,650.00	10,650.00	11,581.26	358.03	(991.25)	0.00	108.74
211-000-675-000	CONTRIBUTIONS	5,000.00	5,000.00	5,000.00	5,000.00	0.00	0.00	0.00	100.00
211-000-699-101	TRANSFERS FROM GENERAL FUND	40,000.00	40,000.00	40,000.00	30,000.00	0.00	10,000.00	0.00	75.00
Total Dept 000		46,172.94	55,650.00	55,650.00	46,581.26	358.03	9,068.74	0.00	83.70
TOTAL REVENUES		46,172.94	55,650.00	55,650.00	46,581.26	358.03	9,068.74	0.00	83.70
Expenditures									
Dept 901 - CAPITAL OUTLAY									
211-901-980-000	EXPENSES/DAM MAJOR REPAIR	9,815.50	20,000.00	20,000.00	0.00	0.00	20,000.00	0.00	0.00
211-901-990-000	INSPECTION REPORTS	0.00	5,000.00	5,000.00	0.00	0.00	5,000.00	0.00	0.00
Total Dept 901 - CAPITAL OUTLAY		9,815.50	25,000.00	25,000.00	0.00	0.00	25,000.00	0.00	0.00
TOTAL EXPENDITURES		9,815.50	25,000.00	25,000.00	0.00	0.00	25,000.00	0.00	0.00
Fund 211 - DAM MAJOR REPAIR FUND:									
TOTAL REVENUES		46,172.94	55,650.00	55,650.00	46,581.26	358.03	9,068.74	0.00	83.70
TOTAL EXPENDITURES		9,815.50	25,000.00	25,000.00	0.00	0.00	25,000.00	0.00	0.00
NET OF REVENUES & EXPENDITURES		36,357.44	30,650.00	30,650.00	46,581.26	358.03	(17,931.26)	0.00	151.98
BEG. FUND BALANCE		524,114.57	560,472.01	560,472.01	560,472.01				
END FUND BALANCE		560,472.01	591,122.01	591,122.01	607,053.27				

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TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 211 - DAM MAJOR REPAIR FUND			
211-000-003-014	CD - LAKE MICH CR UN #43 9/10/2018	322,164.57	
211-000-015-005	MM LAKE MICH CR UN- DAM REPAIR 1026577-0	284,888.70	
211-000-390-000	FUND BALANCE - RESTRICTED		310,472.01
211-000-391-001	FUND BALANCE-COMMITTED/FUTURE REPAIRS12		250,000.00
211-000-665-000	INTEREST REVENUE		11,581.26
211-000-675-000	CONTRIBUTIONS		5,000.00
211-000-699-101	TRANSFERS FROM GENERAL FUND		30,000.00
Total Fund 211 - DAM MAJOR REPAIR FUND		607,053.27	607,053.27

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BALANCE SHEET FOR CASCADE CHARTER TOWNSHIP  
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GL Number	Description	Balance
Fund 211 - DAM MAJOR REPAIR FUND		
*** Assets ***		
211-000-003-014	CD - LAKE MICH CR UN #43 9/10/2018	322,164.57
211-000-015-005	MM LAKE MICH CR UN- DAM REPAIR 1026577-0	284,888.70
	Total Assets	607,053.27
*** Liabilities ***		
	Total Liabilities	0.00
*** Fund Balance ***		
211-000-390-000	FUND BALANCE - RESTRICTED	310,472.01
211-000-391-001	FUND BALANCE-COMMITTED/FUTURE REPAIRS12	250,000.00
	Total Fund Balance	560,472.01
	Beginning Fund Balance	560,472.01
	Net of Revenues VS Expenditures	46,581.26
	Ending Fund Balance	607,053.27
	Total Liabilities And Fund Balance	607,053.27

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REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED	ENCUMBERED	% BDGT
		12/31/2016	ORIGINAL	2017	12/31/2017	MONTH 12/31/17			
		NORM (ABNORM)	BUDGET	AMENDED BUDGET	NORM (ABNORM)	INCR (DECR)	AVAIL BALANCE	YEAR-TO-DATE	USED
Fund 216 - PATHWAYS FUND									
Revenues									
Dept 000									
216-000-401-402	TAX LEVY	500,550.56	512,700.00	512,700.00	513,547.16	0.00	(847.16)	0.00	100.17
216-000-401-410	PERSONAL PROPERTY TAX	50,319.29	39,950.00	39,950.00	39,260.94	0.00	689.06	0.00	98.28
216-000-401-412	DELINQUENT TAX LEVY	3,424.18	3,000.00	3,000.00	1,498.60	0.00	1,501.40	0.00	49.95
216-000-401-437	ABATEMENT TAXES-LEVY	4,944.24	2,575.00	2,575.00	2,658.07	0.00	(83.07)	0.00	103.23
216-000-401-441	COMMUNITY STABILIZATION SHARE TAX	0.00	9,681.00	36,822.00	36,821.72	36,821.72	0.28	0.00	100.00
216-000-401-445	PENALTIES & INTEREST ON TAX	81.40	100.00	100.00	99.61	0.00	0.39	0.00	99.61
216-000-665-000	INTEREST REVENUE	1,526.20	1,300.00	1,300.00	3,972.92	3,137.42	(2,672.92)	0.00	305.61
Total Dept 000		560,845.87	569,306.00	596,447.00	597,859.02	39,959.14	(1,412.02)	0.00	100.24
TOTAL REVENUES		560,845.87	569,306.00	596,447.00	597,859.02	39,959.14	(1,412.02)	0.00	100.24
Expenditures									
Dept 758 - PATHWAYS									
216-758-728-000	OPERATING SUPPLIES	5,800.67	8,000.00	8,000.00	13,149.97	6,745.00	(5,149.97)	0.00	164.37
216-758-821-100	ENGINEERING	6,994.50	35,000.00	35,000.00	21,687.40	425.00	13,312.60	0.00	61.96
216-758-931-000	MAINT & REPAIR	40,560.76	70,000.00	70,000.00	77,392.97	7,150.09	(7,707.10)	314.52	111.01
216-758-950-000	PROPERTY TAX REFUNDS	382.60	200.00	200.00	19.92	0.00	180.08	0.00	9.96
Total Dept 758 - PATHWAYS		53,738.53	113,200.00	113,200.00	112,250.26	14,320.09	635.22	314.52	99.44
Dept 990 - DEBT SERVICE									
216-990-992-007	BOND PRINCIPAL- 2012 REFINANCE	250,000.00	287,000.00	287,000.00	287,000.00	0.00	0.00	0.00	100.00
216-990-996-207	BOND INTEREST- 2012 REFINANCE	9,705.02	6,174.00	6,174.00	5,423.02	0.00	750.98	0.00	87.84
Total Dept 990 - DEBT SERVICE		259,705.02	293,174.00	293,174.00	292,423.02	0.00	750.98	0.00	99.74
TOTAL EXPENDITURES		313,443.55	406,374.00	406,374.00	404,673.28	14,320.09	1,386.20	314.52	99.66
Fund 216 - PATHWAYS FUND:									
TOTAL REVENUES		560,845.87	569,306.00	596,447.00	597,859.02	39,959.14	(1,412.02)	0.00	100.24
TOTAL EXPENDITURES		313,443.55	406,374.00	406,374.00	404,673.28	14,320.09	1,386.20	314.52	99.66
NET OF REVENUES & EXPENDITURES		247,402.32	162,932.00	190,073.00	193,185.74	25,639.05	(2,793.22)	(314.52)	101.47
BEG. FUND BALANCE		707,924.70	955,327.02	955,327.02	955,327.02				
END FUND BALANCE		955,327.02	1,118,259.02	1,145,400.02	1,148,512.76				

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TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 216 - PATHWAYS FUND			
216-000-003-016	CD-OPTION ONE CR UN M 10/08/2018	524,327.53	
216-000-003-033	CD - PRIVATE BANK/CIBC M 10/17/20	503,000.00	
216-000-015-025	PATHWAYS M/M MACATAWA BANK	128,067.32	
216-000-020-000	TAXES RECEIVABLE	262,048.99	
216-000-084-000	DUE FROM OTHER FUNDS	312,320.67	
216-000-202-000	ACCOUNTS PAYABLE		3,459.06
216-000-211-000	CONTRACT PAYABLE-RETAINAGE		3,423.03
216-000-339-000	DEFERRED REVENUE		574,369.66
216-000-390-000	FUND BALANCE - RESTRICTED		755,327.02
216-000-391-001	FUND BALANCE - COMMITTED - PP TAX 2012		200,000.00
216-000-401-402	TAX LEVY		513,547.16
216-000-401-410	PERSONAL PROPERTY TAX		39,260.94
216-000-401-412	DELINQUENT TAX LEVY		1,498.60
216-000-401-437	ABATEMENT TAXES-LEVY		2,658.07
216-000-401-441	COMMUNITY STABILIZATION SHARE TAX		36,821.72
216-000-401-445	PENALTIES & INTEREST ON TAX		99.61
216-000-665-000	INTEREST REVENUE		3,972.92
216-758-728-000	OPERATING SUPPLIES	13,149.97	
216-758-821-100	ENGINEERING	21,687.40	
216-758-931-000	MAINT & REPAIR	77,392.97	
216-758-950-000	PROPERTY TAX REFUNDS	19.92	
216-990-992-007	BOND PRINCIPAL- 2012 REFINANCE	287,000.00	
216-990-996-207	BOND INTEREST- 2012 REFINANCE	5,423.02	
Total Fund 216 - PATHWAYS FUND		2,134,437.79	2,134,437.79

03/06/2018

BALANCE SHEET FOR CASCADE CHARTER TOWNSHIP

Period Ending 12/31/2017

PRE-AUDIT

<u>GL Number</u>	<u>Description</u>	<u>Balance</u>
Fund 216 - PATHWAYS FUND		
*** Assets ***		
216-000-003-016	CD-OPTION ONE CR UN M 10/08/2018	524,327.53
216-000-003-033	CD - PRIVATE BANK/CIBC M 10/17/20	503,000.00
216-000-015-025	PATHWAYS M/M MACATAWA BANK	128,067.32
216-000-020-000	TAXES RECEIVABLE	262,048.99
216-000-084-000	DUE FROM OTHER FUNDS	312,320.67
	Total Assets	<u>1,729,764.51</u>
*** Liabilities ***		
216-000-202-000	ACCOUNTS PAYABLE	3,459.06
216-000-211-000	CONTRACT PAYABLE-RETAINAGE	3,423.03
216-000-339-000	DEFERRED REVENUE	574,369.66
	Total Liabilities	<u>581,251.75</u>
*** Fund Balance ***		
216-000-390-000	FUND BALANCE - RESTRICTED	755,327.02
216-000-391-001	FUND BALANCE - COMMITTED - PP TAX 2012	200,000.00
	Total Fund Balance	<u>955,327.02</u>
	Beginning Fund Balance	955,327.02
	Net of Revenues VS Expenditures	193,185.74
	Ending Fund Balance	<u>1,148,512.76</u>
	Total Liabilities And Fund Balance	<u>1,729,764.51</u>

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03/06/2018 REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED	ENCUMBERED	% BOGT
		12/31/2016	ORIGINAL	2017	12/31/2017	MONTH 12/31/17			
		NORM (ABNORM)	BUDGET	AMENDED BUDGET	NORM (ABNORM)	INCR (DECR)	AVAIL BALANCE	YEAR-TO-DATE	USED
<b>Fund 246 - IRF</b>									
<b>Revenues</b>									
<b>Dept 000</b>									
246-000-630-000	HOOKUP FEES	148,038.00	200,000.00	350,000.00	362,654.00	3,300.00	(17,654.00)	0.00	103.62
246-000-665-000	INTEREST ON INVESTMENTS	11,781.63	2,000.00	2,000.00	3,629.15	578.95	(1,629.15)	0.00	181.46
246-000-669-000	INT & P S/A-ORDINANCE	4,703.67	4,500.00	4,500.00	3,944.82	0.00	555.18	0.00	87.66
246-000-669-006	INT & P S/A-KRAFT #28S	0.00	0.00	0.00	253.75	0.00	(253.75)	0.00	100.00
246-000-669-011	INT & P S/A OAK TERRACE	(459.99)	0.00	0.00	(1,117.56)	0.00	1,117.56	0.00	100.00
246-000-672-000	S/A REVENUE-ORDINANCE	16,732.16	15,000.00	15,000.00	(575.00)	0.00	15,675.00	0.00	(4.30)
246-000-672-008	S/A REVENUE-INACTIVE	106,750.00	12,000.00	12,000.00	(2,750.00)	0.00	21,750.00	0.00	(81.25)
246-000-672-011	S/A REVENUE - OAK TERRACE	8,148.86	4,000.00	4,000.00	(4,656.18)	0.00	8,656.68	0.00	(116.41)
246-000-672-888	FOREST SHORES SPECIAL ASSESSMENT	0.00	940.00	940.00	0.00	0.00	940.00	0.00	0.00
246-000-672-889	S/A REV ORDINANCE- MARACAIBO SHORE 25	0.00	205.00	205.00	0.00	0.00	205.00	0.00	0.00
Total Dept 000		295,700.33	238,645.00	388,645.00	354,282.68	3,878.95	34,362.32	0.00	91.16
<b>TOTAL REVENUES</b>		<b>295,700.33</b>	<b>238,645.00</b>	<b>388,645.00</b>	<b>354,282.68</b>	<b>3,878.95</b>	<b>34,362.32</b>	<b>0.00</b>	<b>91.16</b>
<b>Expenditures</b>									
<b>Dept 295 - ADMINISTRATIVE</b>									
246-295-821-000	ADMIN ENGINEERING COSTS	105,584.91	30,000.00	30,000.00	78,729.40	5,369.50	(48,753.40)	0.00	262.43
246-295-826-000	ADMIN LEGAL FEES	0.00	2,500.00	2,500.00	0.00	0.00	2,500.00	0.00	0.00
246-295-964-000	ADMIN 10%/HOOKUP TO GENERAL	14,583.80	20,000.00	35,000.00	36,265.00	36,265.00	(1,215.00)	0.00	103.61
246-295-964-110	STEELCASE SEWER PAYBACK	60,486.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00
246-295-980-000	ADMIN MISCELLANEOUS EXPENSE	0.00	1,000.00	1,000.00	0.00	0.00	1,000.00	0.00	0.00
Total Dept 295 - ADMINISTRATIVE		180,655.55	53,500.00	68,500.00	114,994.40	41,634.50	(46,411.00)	0.00	167.88
<b>Dept 901 - CAPITAL OUTLAY</b>									
246-901-972-300	BURTON/CASCADE PV PROJECT	261,645.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
246-901-974-000	CAPITAL OUTLAY - LANDIMP	0.00	750,000.00	900,000.00	595,141.82	(59,181.00)	304,858.18	0.00	66.13
Total Dept 901 - CAPITAL OUTLAY		261,645.12	750,000.00	900,000.00	595,141.82	(59,181.00)	304,858.18	0.00	66.13
<b>Dept 990 - DEBT SERVICE</b>									
246-990-992-001	BOND PRINCIPAL-2012 REFINANCE	76,000.00	77,000.00	77,000.00	77,000.00	0.00	0.00	0.00	100.00
246-990-996-201	BOND INTEREST -2012 REFINANCE	4,037.98	2,289.00	2,289.00	2,288.98	0.00	0.02	0.00	100.00
Total Dept 990 - DEBT SERVICE		80,037.98	79,289.00	79,289.00	79,288.98	0.00	0.02	0.00	100.00
<b>TOTAL EXPENDITURES</b>		<b>522,338.65</b>	<b>882,789.00</b>	<b>1,047,789.00</b>	<b>789,425.20</b>	<b>(17,546.50)</b>	<b>258,363.80</b>	<b>0.00</b>	<b>75.34</b>
<b>Fund 246 - IRF:</b>									
<b>TOTAL REVENUES</b>		<b>295,700.33</b>	<b>238,645.00</b>	<b>388,645.00</b>	<b>354,282.68</b>	<b>3,878.95</b>	<b>34,362.32</b>	<b>0.00</b>	<b>91.16</b>
<b>TOTAL EXPENDITURES</b>		<b>522,338.65</b>	<b>882,789.00</b>	<b>1,047,789.00</b>	<b>789,425.20</b>	<b>(17,546.50)</b>	<b>258,363.80</b>	<b>0.00</b>	<b>75.34</b>
<b>NET OF REVENUES &amp; EXPENDITURES</b>		<b>(226,638.32)</b>	<b>(644,144.00)</b>	<b>(659,144.00)</b>	<b>(435,142.52)</b>	<b>21,425.45</b>	<b>(224,001.48)</b>	<b>0.00</b>	<b>66.02</b>
<b>BEG. FUND BALANCE</b>		<b>1,822,857.57</b>	<b>1,596,219.25</b>	<b>1,596,219.25</b>	<b>1,596,219.25</b>				
<b>END FUND BALANCE</b>		<b>1,596,219.25</b>	<b>952,075.25</b>	<b>937,075.25</b>	<b>1,161,076.73</b>				

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03/06/2018

TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 246 - IRF			
246-000-003-030	CD - TALMER BANK & TRUST M	500,000.00	
246-000-015-004	MONEY MARKET - CHEMICAL BANK	235,161.73	
246-000-015-005	IRF MM LAKE MICH CR UN	416,186.37	
246-000-030-001	S/A ORDINANCE RECEIVABLE	9,942.95	
246-000-030-010	S/A RECEIVABLE- KRAFT & 60TH IMPRV 2014	274,829.61	
246-000-030-011	S/A RECEIVABLE- OAK TERRACE	37,251.92	
246-000-030-099	S/A RECEIVABLE-INACTIVE-SEWER	1,166,488.52	
246-000-030-100	S/A RECEIVABLE-INACTIVE-WATER	2,178,823.30	
246-000-040-001	ACCOUNTS RECEIVABLE-ORDINANCE		6,560.56
246-000-040-006	ACCOUNTS RECEIVABLE-DELQ USAGE	1,438.68	
246-000-081-000	DUE FROM OTHER GOVERNMENT UNITS	133,452.88	
246-000-085-000	DUE FROM TAXES	8,149.38	
246-000-202-000	ACCOUNTS PAYABLE		69,271.88
246-000-211-000	CONTRACT PAYABLE-RETAINAGE		5,000.00
246-000-339-000	DEFERRED REVENUE-ORDINANCE		313,823.03
246-000-339-001	DEFERRED REV-INACTIVE-SEWER		1,166,488.52
246-000-339-002	DEFERRED REV-INACTIVE-WATER		2,208,073.30
246-000-339-011	DEFERRED REVENUE- OAK TERRACE		31,431.32
246-000-390-000	FUND BALANCE - RESTRICTED		1,596,219.25
246-000-630-000	HOOKUP FEES		362,654.00
246-000-665-000	INTEREST ON INVESTMENTS		3,629.15
246-000-669-000	INT & P S/A-ORDINANCE		3,944.82
246-000-669-006	INT & P S/A-KRAFT #28S		253.75
246-000-669-011	INT & P S/A OAK TERRACE	1,117.56	
246-000-672-000	S/A REVENUE-ORDINANCE	675.00	
246-000-672-008	S/A REVENUE-INACTIVE	9,750.00	
246-000-672-011	S/A REVENUE - OAK TERRACE	4,656.48	
246-295-821-000	ADMIN ENGINEERING COSTS	78,729.40	
246-295-964-000	ADMIN 10%/HOOKUP TO GENERAL	36,265.00	
246-901-974-000	CAPITAL OUTLAY - LANDIMP	595,141.82	
246-990-992-001	BOND PRINCIPAL-2012 REFINANCE	77,000.00	
246-990-996-201	BOND INTEREST -2012 REFINANCE	2,288.98	
Total Fund 246 - IRF		5,767,349.58	5,767,349.58

03/06/2018

BALANCE SHEET FOR CASCADE CHARTER TOWNSHIP  
Period Ending 12/31/2017  
PRE-AUDIT

GL Number	Description	Balance
Fund 246 - IRF		
*** Assets ***		
246-000-003-030	CD - TALMER BANK & TRUST M	500,000.00
246-000-015-004	MONEY MARKET - CHEMICAL BANK	235,161.73
246-000-015-005	IRF MM LAKE MICH CR UN	416,186.37
246-000-030-001	S/A ORDINANCE RECEIVABLE	9,942.95
246-000-030-010	S/A RECEIVABLE- KRAFT & 60TH IMPRV 2014	274,829.61
246-000-030-011	S/A RECEIVABLE- OAK TERRACE	37,251.92
246-000-030-099	S/A RECEIVABLE-INACTIVE-SEWER	1,166,488.52
246-000-030-100	S/A RECEIVABLE-INACTIVE-WATER	2,178,823.30
246-000-040-001	ACCOUNTS RECEIVABLE-ORDINANCE	(6,560.56)
246-000-040-006	ACCOUNTS RECEIVABLE-DELQ USAGE	1,438.68
246-000-081-000	DUE FROM OTHER GOVERNMENT UNITS	133,452.88
246-000-085-000	DUE FROM TAXES	8,149.38
	Total Assets	4,955,164.78
*** Liabilities ***		
246-000-202-000	ACCOUNTS PAYABLE	69,271.88
246-000-211-000	CONTRACT PAYABLE-RETAINAGE	5,000.00
246-000-339-000	DEFERRED REVENUE-ORDINANCE	313,823.03
246-000-339-001	DEFERRED REV-INACTIVE-SEWER	1,166,488.52
246-000-339-002	DEFERRED REV-INACTIVE-WATER	2,208,073.30
246-000-339-011	DEFERRED REVENUE- OAK TERRACE	31,431.32
	Total Liabilities	3,794,088.05
*** Fund Balance ***		
246-000-390-000	FUND BALANCE - RESTRICTED	1,596,219.25
	Total Fund Balance	1,596,219.25
	Beginning Fund Balance	1,596,219.25
	Net of Revenues VS Expenditures	(435,142.52)
	Ending Fund Balance	1,161,076.73
	Total Liabilities And Fund Balance	4,955,164.78

PC 37

REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED	ENCUMBERED	% BDGT
		12/31/2016	ORIGINAL	2017	12/31/2017	MONTH 12/31/17	AVAIL BALANCE	YEAR-TO-DATE	USED
		NORM (ABNORM)	BUDGET	AMENDED BUDGET	NORM (ABNORM)	INCR (DECR)			
Fund 248 - DDA									
Revenues									
Dept 000									
248-000-401-401	TAXES - CASCADE TOWNSHIP	165,187.66	186,715.00	186,715.00	186,381.34	0.00	333.66	0.00	99.82
248-000-401-402	TAXES - G.R.C.C.	93,448.02	95,000.00	106,138.00	106,138.39	0.00	(0.35)	0.00	100.00
248-000-401-403	TAXES-KENT COUNTY	286,666.04	300,954.00	349,495.00	349,495.94	0.00	(0.34)	0.00	100.00
248-000-401-406	KDL TAXES-DDA	59,993.25	67,815.00	67,815.00	67,690.43	0.00	124.57	0.00	99.82
248-000-665-000	INTEREST REVENUE	6,320.90	5,500.00	6,300.00	6,413.77	586.18	(113.77)	0.00	101.81
248-000-671-683	REIMBURSEMENTS/REFUNDS	8,518.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248-000-675-000	DDA CONTRIBUTIONS - MISC	0.00	0.00	6,500.00	6,500.00	0.00	0.00	0.00	100.00
248-000-675-300	DDA CONTRIB & DONATION- METRO CRUISE	19,512.13	15,000.00	15,000.00	6,823.25	0.00	8,176.75	0.00	45.49
248-000-675-310	DDA CONTRIBUTION & DONATION-SCULPTUF	10,000.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
248-000-676-000	INSURANCE REIMBURSEMENT	406.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Dept 000		650,052.00	678,484.00	737,963.00	729,443.12	586.18	8,519.88	0.00	98.85
TOTAL REVENUES		650,052.00	678,484.00	737,963.00	729,443.12	586.18	8,519.88	0.00	98.85
Expenditures									
Dept 170 - DDA OPERATIONS/CONSTRUCTION									
248-170-723-000	DDA - MEMBERSHIP AND DUES	270.00	940.00	1,600.00	1,600.00	0.00	(475.00)	475.00	129.69
248-170-724-000	DDA - EDUCATION	824.82	2,000.00	2,000.00	872.85	58.85	1,127.15	0.00	43.64
248-170-787-000	OTHER EXPENSES	4,294.93	10,000.00	10,000.00	15,178.20	13,214.00	(5,173.20)	0.00	151.78
248-170-821-000	ENGINEERING	301.35	10,000.00	10,000.00	1,415.75	0.00	8,584.25	0.00	14.16
248-170-826-265	LEGAL	160.00	2,500.00	2,500.00	0.00	0.00	2,500.00	0.00	0.00
248-170-860-000	DDA - MILEAGE	65.97	400.00	400.00	144.17	17.12	255.83	0.00	36.04
248-170-861-100	BUS SERVICE 28TH ST	79,446.07	97,187.00	97,187.00	96,064.05	7,331.16	1,122.95	0.00	98.84
248-170-921-000	ELECTRICITY	22,889.09	27,000.00	27,000.00	20,963.85	3,681.26	6,036.15	0.00	77.64
248-170-922-000	STREETLIGHTS	0.00	8,000.00	8,000.00	281.78	0.00	7,718.22	0.00	3.52
248-170-924-100	CELL PHONES	658.62	900.00	900.00	777.08	116.43	122.92	0.00	86.34
248-170-927-000	WATER-SEWER	4,311.59	6,500.00	6,500.00	6,815.33	694.67	(315.33)	0.00	104.85
248-170-931-000	MAINT & REPAIR/IMPROVEMENTS	32,861.35	37,800.00	37,800.00	17,630.50	1,065.11	19,461.55	707.95	48.51
248-170-931-300	DDA REPAIR & MAINT- METRO CRUISE WU	23,894.68	20,000.00	20,000.00	5,143.85	0.00	13,856.15	1,000.00	30.72
248-170-950-000	DDA PROPERTY TAX REFUNDS	5,664.34	5,000.00	10,066.00	10,065.23	0.00	0.77	0.00	99.99
248-170-967-000	SPECIAL PROJECTS	18,397.30	75,000.00	75,000.00	57,501.76	0.00	17,223.24	275.00	77.04
248-170-980-266	SIDEWALK CONST - W 28TH ST	432.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248-170-981-000	SMALL EQUIP AND FURNITURE	0.00	500.00	500.00	0.00	0.00	500.00	0.00	0.00
Total Dept 170 - DDA OPERATIONS/CONSTRUCTION		194,472.63	303,727.00	309,453.00	294,454.40	26,178.60	72,540.85	2,457.95	76.56
Dept 901 - CAPITAL OUTLAY									
248-901-821-051	ENGINEERING- MUSEUM GARDENS	1,242.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248-901-821-053	ENGINEER-MILLAGE AREA MID-BLOCK CROSS	682.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248-901-821-054	ENGINEERING- ENHANCED INTERSECTIONS	5,815.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248-901-974-000	CAPITAL OUTLAY - LANDIMP	27,386.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248-901-974-051	MUSEUM GARDENS PROJECT	67,214.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248-901-974-052	OLD 28TH ST REALIGNMENT	14,980.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248-901-974-053	CAP OUT-VILLAGE AREA MID-BLOCK CROSSIN	52,167.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00
248-901-974-054	CAPITAL OUTLAY- ENHANCED INTERSECTION	13,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Dept 901 - CAPITAL OUTLAY		182,488.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dept 965 - TRANSFERS OUT									
248-965-999-101	TRANSFER TO GENERAL FUND	94,340.00	94,340.00	94,340.00	94,340.00	94,340.00	0.00	0.00	100.00
Total Dept 965 - TRANSFERS OUT		94,340.00	94,340.00	94,340.00	94,340.00	94,340.00	0.00	0.00	100.00
Dept 990 - DEBT SERVICE									
248-990-992-003	MUN BOND 2010 /PRINCIPAL	91,000.00	95,000.00	95,000.00	94,000.00	0.00	1,000.00	0.00	98.95
248-990-996-003	MUN BOND 2010 / INT & FEES	15,777.00	15,518.00	15,518.00	13,229.00	0.00	2,289.00	0.00	85.25
Total Dept 990 - DEBT SERVICE		106,777.00	110,518.00	110,518.00	107,229.00	0.00	3,289.00	0.00	97.02
TOTAL EXPENDITURES		578,078.38	508,585.00	514,311.00	436,023.40	120,518.60	75,829.65	2,457.95	85.26
Fund 248 - DDA:									
TOTAL REVENUES		650,052.00	678,484.00	737,963.00	729,443.12	586.18	8,519.88	0.00	98.85
TOTAL EXPENDITURES		578,078.38	508,585.00	514,311.00	436,023.40	120,518.60	75,829.65	2,457.95	85.26
NET OF REVENUES & EXPENDITURES		71,973.62	169,899.00	223,652.00	293,419.72	(119,932.42)	(67,309.77)	(2,457.95)	130.10
BEG. FUND BALANCE		329,814.49	401,788.11	401,788.11	401,788.11				
END FUND BALANCE		401,788.11	571,687.11	625,440.11	695,207.83				

03/06/2018

TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 248 - DDA			
248-000-003-035	ADVENTURE CR UNION	204,550.90	
248-000-015-004	MONEY MARKET - CHEMICAL BANK	139,908.35	
248-000-015-005	M/M LAKE MICH CR UN 0001026578	366,414.54	
248-000-015-010	OPTION 1 CR UN-MM	5.00	
248-000-084-000	DUE FROM OTHER FUNDS	208,805.87	
248-000-202-000	ACCOUNTS PAYABLE		15,670.96
248-000-339-000	DEFERRED REVENUE		208,805.87
248-000-390-000	FUND BALANCE - RESTRICTED		401,788.11
248-000-401-401	TAXES - CASCADE TOWNSHIP		186,381.34
248-000-401-402	TAXES - G.R.C.C.		106,138.39
248-000-401-403	TAXES-KENT COUNTY		349,495.94
248-000-401-406	KDL TAXES-DDA		67,690.43
248-000-665-000	INTEREST REVENUE		6,413.77
248-000-675-000	DDA CONTRIBUTIONS - MISC		6,500.00
248-000-675-300	DDACONTRIB & DONATION- METRO CRUISE WU		6,823.25
248-170-723-000	DDA - MEMBERSHIP AND DUES	1,600.00	
248-170-724-000	DDA - EDUCATION	872.85	
248-170-787-000	OTHER EXPENSES	15,178.20	
248-170-821-000	ENGINEERING	1,415.75	
248-170-860-000	DDA - MILEAGE	144.17	
248-170-861-100	BUS SERVICE 28TH ST	96,064.05	
248-170-921-000	ELECTRICITY	20,963.85	
248-170-922-000	STREETLIGHTS	281.78	
248-170-924-100	CELL PHONES	777.08	
248-170-927-000	WATER-SEWER	6,815.33	
248-170-931-000	MAINT & REPAIR/IMPROVEMENTS	17,630.50	
248-170-931-300	DDA REPAIR & MAINT- METRO CRUISE WU	5,143.85	
248-170-950-000	DDA PROPERTY TAX REFUNDS	10,065.23	
248-170-967-000	SPECIAL PROJECTS	57,501.76	
248-965-999-101	TRANSFER TO GENERAL FUND	94,340.00	
248-990-992-003	MUN BOND 2010 /PRINCIPAL	94,000.00	
248-990-996-003	MUN BOND 2010 / INT & FEES	13,229.00	
Total Fund 248 - DDA		1,355,708.06	1,355,708.06

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BALANCE SHEET FOR CASCADE CHARTER TOWNSHIP  
Period Ending 12/31/2017  
PRE-AUDIT

GL Number	Description	Balance
Fund 248 - DDA		
*** Assets ***		
248-000-003-035	ADVENTURE CR UNION	204,550.90
248-000-015-004	MONEY MARKET - CHEMICAL BANK	139,908.35
248-000-015-005	M/M LAKE MICH CR UN 0001026578	366,414.54
248-000-015-010	OPTION 1 CR UN-MM	5.00
248-000-084-000	DUE FROM OTHER FUNDS	208,805.87
	Total Assets	919,684.66
*** Liabilities ***		
248-000-202-000	ACCOUNTS PAYABLE	15,670.96
248-000-339-000	DEFERRED REVENUE	208,805.87
	Total Liabilities	224,476.83
*** Fund Balance ***		
248-000-390-000	FUND BALANCE - RESTRICTED	401,788.11
	Total Fund Balance	401,788.11
	Beginning Fund Balance	401,788.11
	Net of Revenues VS Expenditures	293,419.72
	Ending Fund Balance	695,207.83
	Total Liabilities And Fund Balance	919,684.66

REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED	ENCUMBERED	% BDGT
		12/31/2016	ORIGINAL	2017	2017	12/31/2017	MONTH 12/31/17			
		NORM (ABNORM)	BUDGET	AMENDED BUDGET		NORM (ABNORM)	(INCR (DECR)	AVAIL BALANCE	YEAR-TO-DATE	USED
Fund 249 - BUILDING FUND										
Revenues										
Dept 000										
249-000-607-483	CASCADE TWP BLDG COM PERMITS	129,995.24	125,000.00	210,000.00		180,886.00	615.00	29,114.00	0.00	86.14
249-000-607-484	CASCADE TWP BLDG RES PERMITS	88,583.00	85,000.00	95,000.00		93,979.00	3,128.00	1,021.00	0.00	98.93
249-000-607-485	CASCADE TWP ELECTRICAL PERMITS	75,883.00	70,000.00	80,000.00		84,775.00	4,629.00	(4,775.00)	0.00	105.97
249-000-607-486	CASCADE TWP MECHANICAL PERMITS	93,814.50	80,000.00	90,000.00		92,525.25	6,474.75	(2,525.25)	0.00	102.81
249-000-607-487	CASCADE TWP PLUMBING PERMITS	38,753.00	55,000.00	55,000.00		46,053.00	2,074.00	8,947.00	0.00	83.73
249-000-607-488	CASCADE TWP PLAN REVIEWS	80,300.00	80,000.00	165,000.00		150,046.00	759.00	14,954.00	0.00	90.94
249-000-607-490	CASCADE TWP CONTRACTOR REG	13,620.00	8,000.00	12,000.00		10,755.00	420.00	1,245.00	0.00	89.63
249-000-607-500	LOWELL TWP BUILDING PERMITS	32,687.00	25,000.00	33,000.00		30,881.00	1,079.00	2,119.00	0.00	93.58
249-000-607-501	LOWELL TWP ELECTRICAL PERMITS	13,779.00	10,000.00	14,000.00		13,678.00	1,098.00	322.00	0.00	97.70
249-000-607-502	LOWELL TWP MECHANICAL PERMITS	13,521.75	10,000.00	13,000.00		13,105.00	1,875.00	(105.60)	0.00	100.81
249-000-607-503	LOWELL TWP PLUMBING PERMITS	7,914.00	7,000.00	10,000.00		8,496.00	115.00	1,504.00	0.00	84.96
249-000-607-511	VERGENNES TWP ELECTRICAL PERMITS	13,649.00	10,000.00	10,000.00		11,338.00	1,284.00	(1,338.00)	0.00	113.38
249-000-607-512	VERGENNES TWP MECHANICAL PERMITS	14,106.50	8,000.00	13,000.00		14,360.00	2,110.00	(1,850.00)	0.00	110.46
249-000-607-516	VERGENNES TWP PLUMBING PERMITS	8,399.00	10,000.00	10,000.00		7,143.00	224.00	2,857.00	0.00	71.43
249-000-607-520	ADA TWP BUILDING PERMITS	110,134.00	100,000.00	130,000.00		135,722.00	5,836.00	(5,722.00)	0.00	104.40
249-000-607-521	ADA TWP PLUMBING PERMITS	29,736.00	35,000.00	35,000.00		27,593.00	1,348.00	7,407.00	0.00	78.84
249-000-607-523	ADA TWP ELECTRICAL PERMITS	44,478.00	45,000.00	45,000.00		46,849.00	3,818.00	(1,949.00)	0.00	104.11
249-000-607-524	ADA TWP MECHANICAL PERMITS	55,823.00	45,000.00	52,000.00		52,430.25	3,944.00	(130.25)	0.00	100.83
249-000-607-531	GR TWP BUILDING PERMITS	106,652.00	125,000.00	245,000.00		219,211.00	2,595.00	25,789.00	0.00	89.17
249-000-607-532	GR TWP ELECTRICAL PERMITS	48,601.00	60,000.00	95,000.00		88,488.00	2,293.00	6,512.00	0.00	93.15
249-000-607-533	GR TWP MECHANICAL PERMITS	64,353.25	65,000.00	85,000.00		84,623.85	3,383.75	376.15	0.00	99.56
249-000-607-534	GR TWP PLUMBING PERMITS	27,853.00	45,000.00	45,000.00		43,359.00	1,050.00	1,641.00	0.00	96.35
249-000-607-536	EAST GR BUILDING PERMITS	50,801.00	55,000.00	65,000.00		66,181.00	3,253.00	(1,381.00)	0.00	101.82
249-000-607-537	EAST GR ELECTRICAL PERMITS	35,319.00	32,000.00	32,000.00		32,330.00	1,056.00	(330.00)	0.00	101.03
249-000-607-538	EAST GR MECHANICAL PERMITS	39,761.00	38,000.00	38,000.00		39,759.50	1,725.00	(1,759.50)	0.00	104.63
249-000-607-539	EAST GR PLUMBING PERMITS	23,902.00	22,000.00	26,000.00		24,684.00	1,550.00	1,316.00	0.00	94.94
249-000-607-540	EAST GR SPECIAL BILLING	55.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
249-000-607-541	EAST GR-RENTAL INSP	3,250.00	4,000.00	4,000.00		2,550.00	0.00	1,450.00	0.00	63.75
249-000-607-551	PLAINFIELD - ELECTRICAL PERMITS	68,481.00	60,000.00	70,000.00		82,020.00	11,462.00	(2,020.00)	0.00	117.17
249-000-607-552	PLAINFIELD MECHANICAL PERMITS	92,103.00	80,000.00	100,000.00		104,640.90	7,852.75	(4,540.90)	0.00	104.64
249-000-607-553	PLAINFIELD - PLUMBING PERMITS	45,908.00	40,000.00	55,000.00		53,987.00	2,960.00	1,013.00	0.00	98.16
249-000-607-555	PLAINFIELD INSPECTION FEES -NP	0.00	2,000.00	2,000.00		0.00	0.00	2,000.00	0.00	0.00
249-000-607-560	LOWELL, CITY OF - BUILDING PERMITS	25,474.00	16,000.00	30,000.00		26,249.00	327.00	3,751.00	0.00	87.50
249-000-607-561	LOWELL, CITY OF - ELECTRICAL PERMITS	9,726.00	7,000.00	17,000.00		16,113.00	555.00	887.00	0.00	94.78
249-000-607-562	LOWELL, CITY OF - MECHANICAL PERMITS	7,910.00	5,000.00	11,000.00		10,417.50	795.00	582.50	0.00	94.70
249-000-607-563	LOWELL CITY OF - PLUMBING PERMITS	6,224.00	5,000.00	10,000.00		8,133.00	0.00	1,867.00	0.00	81.33
249-000-665-000	INTEREST REVENUE	19,323.94	13,100.00	13,100.00		14,817.40	6,340.13	(1,717.40)	0.00	113.11
249-000-671-671	MISCELLANEOUS INCOME	1,694.00	1,000.00	1,000.00		1,670.00	50.00	(670.00)	0.00	167.00
249-000-673-000	SALE OF ASSETS	100.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
Total Dept 000		1,542,667.18	1,483,100.00	2,016,100.00		1,939,848.65	88,078.38	76,251.35	0.00	96.22
TOTAL REVENUES		1,542,667.18	1,483,100.00	2,016,100.00		1,939,848.65	88,078.38	76,251.35	0.00	96.22
Expenditures										
Dept 371 - BUILDING DEPARTMENT										
249-371-703-000	DIRECTOR OF INSPECTIONS	85,360.70	87,104.00	87,104.00		87,160.33	6,757.21	(59.63)	0.00	100.06
249-371-706-000	BLDG WAGES/SALARY- KD	63,095.60	64,087.00	64,087.00		64,117.17	4,960.53	(90.17)	0.00	100.05
249-371-706-302	BLDG INSPECTOR - JB	62,748.34	63,734.00	63,734.00		63,758.31	4,927.11	(24.31)	0.00	100.04
249-371-706-303	BLDG INSPECTOR - WB	65,408.78	66,788.00	66,788.00		66,825.77	5,176.01	(37.77)	0.00	100.06
249-371-706-304	BLDG INSPECTOR - DH	67,411.73	67,812.00	67,812.00		67,837.98	5,242.38	(25.98)	0.00	100.04
249-371-706-305	BLDG INSPECTOR - JV/VM	62,748.34	63,734.00	63,734.00		63,758.31	4,927.11	(24.31)	0.00	100.04
249-371-706-306	BLDG INSPECTOR / PT - SB	61,131.39	61,743.00	61,743.00		61,801.57	4,808.77	(58.57)	0.00	100.09
249-371-706-309	BLDG INSPECTOR - DHU	57,583.18	58,601.00	58,601.00		58,560.72	4,349.19	40.28	0.00	99.93
249-371-706-400	BUILDING CLERICAL I	39,196.22	39,267.00	39,267.00		39,285.20	3,035.60	(13.20)	0.00	100.05
249-371-706-401	BUILDING CLERICAL II - JC	14,952.87	17,712.00	17,712.00		10,300.05	724.33	7,411.95	0.00	58.15
249-371-706-402	BUILDING CLERICAL II - JK	16,770.16	21,575.00	28,575.00		27,753.75	3,140.00	821.25	0.00	97.13
249-371-706-500	BLDG ADDITIONAL HELP	13,469.62	22,000.00	22,000.00		10,727.50	1,452.50	11,272.50	0.00	48.76
249-371-723-000	MEMBERSHIPS AND DUES	2,160.00	4,000.00	4,000.00		1,000.00	100.00	3,000.00	0.00	25.00
249-371-724-000	EDUCATION	3,502.94	6,000.00	6,000.00		2,810.38	0.00	3,189.62	0.00	46.84
249-371-727-000	SUPPLIES	5,016.18	8,000.00	8,000.00		3,341.38	108.70	1,256.52	3,402.10	84.29
249-371-757-000	SUPPLIES-ICC BOOKS	110.00	8,000.00	8,000.00		3,259.87	0.00	3,770.00	970.13	52.88
249-371-768-000	DEPARTMENT UNIFORMS	3,485.32	3,900.00	3,900.00		3,823.49	1,004.01	76.51	0.00	98.04
249-371-787-000	OTHER EXPENSES	202.39	1,500.00	1,500.00		219.31	0.00	1,280.69	0.00	14.62
249-371-787-200	OTHER EXPENSES- CREDIT CARD FEES	10,919.97	14,000.00	14,000.00		13,307.68	3,298.15	692.32	0.00	95.05
249-371-807-000	AUDIT FEES & SERVICES	895.00	925.00	925.00		910.00	0.00	15.00	0.00	98.38
249-371-810-000	INSURANCE	6,612.90	6,944.00	6,944.00		7,277.55	0.00	(333.55)	0.00	104.80
249-371-821-000	BLDG ENGINEERING	0.00	0.00	3,000.00		471.50	0.00	2,528.50	0.00	15.72
249-371-860-000	MILEAGE	56,095.74	58,000.00	58,000.00		55,551.84	5,694.24	2,448.16	0.00	95.78
249-371-862-500	DEPT HEAD, SUPV EXPENSES	239.02	500.00	500.00		417.58	74.67	82.42	0.00	83.52
249-371-924-000	PHONES	951.09	1,500.00	1,500.00		925.01	78.79	574.99	0.00	61.67

03/06/2018

REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR	UNENCUMBERED AVAIL BALANCE	ENCUMBERED YEAR-TO-DATE	% BDGT USED
		12/31/2016 NORM (ABNORM)	ORIGINAL BUDGET	2017 AMENDED BUDGET	12/31/2017 NORM (ABNORM)	MONTH 12/31/17 INCR (DECR)			
249-371-924-100	CELL PHONES	7,126.04	5,800.00	5,800.00	6,803.87	1,284.16	(1,003.37)	0.00	117.31
249-371-932-000	OFFICE EQUIP & COMPUTER REPAIR	690.66	6,000.00	6,000.00	4,088.56	2,983.60	(450.56)	2,362.00	107.51
249-371-939-000	SERVICE CONTRACTS	11,341.56	13,100.00	13,100.00	11,020.09	3,913.80	227.91	1,852.00	98.26
249-371-940-000	BUILDING RENTAL-LEASE	0.00	0.00	10,000.00	10,522.78	5,588.53	(5,222.78)	0.00	105.23
249-371-941-000	POSTAGE & MACHINE LEASE	600.00	1,000.00	1,000.00	600.00	0.00	400.00	0.00	60.00
249-371-957-000	BLDG PHYSICAL EXAMS	258.00	750.00	750.00	402.76	0.00	347.24	0.00	53.70
249-371-967-000	BLDG - SPECIAL PROJECTS	6,878.93	24,000.00	54,000.00	35,524.60	30,744.60	18,475.40	0.00	65.79
249-371-981-000	SMALL EQUIPMENT/FURNITURE	6,043.98	7,300.00	7,300.00	4,834.82	218.01	2,465.18	0.00	66.23
Total Dept 371 - BUILDING DEPARTMENT		733,006.65	805,376.00	855,376.00	788,999.73	104,592.00	57,790.04	8,586.23	93.24
Dept 850 - BENEFITS/INSURANCE									
249-850-715-000	FICA-EMPLOYER	43,424.35	48,513.00	48,513.00	44,745.85	3,616.61	3,767.15	0.00	92.23
249-850-717-000	WORKERS COMP INSURANCE	12,961.54	10,971.00	10,971.00	10,877.18	419.58	93.82	0.00	99.14
249-850-718-000	VISION INSURANCE BENEFITS	1,214.40	1,490.00	1,490.00	1,214.40	101.20	275.60	0.00	81.50
249-850-719-000	HEALTH INSURANCE BENEFITS	97,094.52	110,211.00	110,211.00	89,206.12	(3,332.05)	21,004.88	0.00	80.94
249-850-719-100	OPT-OUT INSURANCE	1,500.00	1,600.00	2,500.00	3,000.00	500.00	(500.00)	0.00	120.00
249-850-719-200	MI CLAIMS TAX- HEALTH	0.00	200.00	200.00	0.00	0.00	200.00	0.00	0.00
249-850-720-000	LIFE & DISABILITY INSURANCE	4,610.07	5,372.00	5,372.00	5,069.08	441.75	302.92	0.00	94.36
249-850-721-000	DENTAL INSURANCE BENEFITS	6,878.22	10,715.00	10,715.00	7,327.42	(1,690.00)	3,387.58	0.00	68.38
249-850-721-200	MI CLAIMS TAX - DENTAL	104.56	200.00	200.00	63.80	0.00	136.20	0.00	31.90
249-850-722-000	PENSION PLAN BENEFITS	57,500.96	59,444.00	71,444.00	70,760.07	5,546.69	683.93	0.00	99.04
Total Dept 850 - BENEFITS/INSURANCE		225,288.62	248,716.00	261,616.00	232,263.92	7,144.78	29,352.08	0.00	88.78
Dept 901 - CAPITAL OUTLAY									
249-901-975-000	CAPITAL OUTLAY - BLDGIMP	0.00	132,000.00	132,000.00	100,901.78	57,298.86	31,098.22	0.00	76.44
Total Dept 901 - CAPITAL OUTLAY		0.00	132,000.00	132,000.00	100,901.78	57,298.86	31,098.22	0.00	76.44
Dept 964 - PAYMENTS TO OTHER TOWNSHIPS									
249-964-964-100	PERMITS DUE TO LOWELL TWP	13,580.35	10,400.00	14,000.00	13,192.80	1,818.00	807.20	0.00	94.23
249-964-964-200	PERMITS DUE TO VERGENNES TWP	5,629.90	5,600.00	6,600.00	6,208.80	1,416.60	391.20	0.00	94.07
249-964-964-300	PERMITS DUE TO GR TWP	49,512.85	59,000.00	94,000.00	87,191.57	5,982.60	6,808.43	0.00	92.76
249-964-964-400	PERMITS DUE TO ADA TWP	48,022.20	45,000.00	50,400.00	52,556.85	7,893.40	(2,156.85)	0.00	104.28
249-964-964-500	PERMITS DUE TO EAST GR	29,984.60	29,400.00	32,200.00	32,557.90	3,907.20	(357.90)	0.00	101.11
249-964-964-600	PERMITS DUE PLAINFIELD	41,314.40	36,000.00	45,000.00	48,118.58	9,288.55	(3,118.58)	0.00	106.93
249-964-964-700	PERMITS DUE CITY OF LOWELL	9,866.80	6,600.00	13,600.00	12,234.30	917.40	1,365.70	0.00	89.96
249-964-964-800	PERMITS DUE CASCADE TWP	85,275.75	83,000.00	106,000.00	96,749.85	9,221.35	9,250.15	0.00	91.27
Total Dept 964 - PAYMENTS TO OTHER TOWNSHIPS		283,186.85	275,000.00	361,800.00	348,810.65	40,445.10	12,989.35	0.00	96.41
TOTAL EXPENDITURES		1,241,482.12	1,461,092.00	1,610,792.00	1,470,976.08	209,480.74	131,229.69	8,586.23	91.85
Fund 249 - BUILDING FUND:									
TOTAL REVENUES		1,542,667.18	1,483,100.00	2,016,100.00	1,939,848.65	88,078.38	76,251.35	0.00	96.22
TOTAL EXPENDITURES		1,241,482.12	1,461,092.00	1,610,792.00	1,470,976.08	209,480.74	131,229.69	8,586.23	91.85
NET OF REVENUES & EXPENDITURES		301,185.06	22,008.00	405,308.00	468,872.57	(121,402.36)	(54,978.34)	(8,586.23)	113.56
BEG. FUND BALANCE		2,128,895.35	2,430,080.41	2,430,080.41	2,430,080.41				
END FUND BALANCE		2,430,080.41	2,452,088.41	2,835,388.41	2,898,952.98				

03/06/2018

TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 249 - BUILDING FUND			
249-000-001-100	CASH - CHEM	211,661.07	
249-000-003-001	CD - INDEPENDENT BANK M 6/19/2019	310,211.97	
249-000-003-018	CD - CHEMICAL BANK M 4/2019	300,000.00	
249-000-003-021	FIRST NATIONAL BANK OF MI/ M 10/11/2015	511,395.83	
249-000-003-024	FIRST NATIONAL BANK OF AMERICA	616,117.75	
249-000-003-028	CONSUMER CREDIT UNION M 3/10/2020	305,310.87	
249-000-003-029	CD - FIRST COMMUNITY BANK M5/27/2018	250,000.00	
249-000-003-037	CHEMICAL BANK CD M10/28/2019	500,000.00	
249-000-123-000	PREPAID EXPENSE	9,445.32	
249-000-202-000	ACCOUNTS PAYABLE		96,028.47
249-000-204-000	ACCRUED PAYROLL		12,086.09
249-000-211-000	CONTRACT PAYABLE-RETAINAGE		7,075.27
249-000-390-000	FUND BALANCE - RESTRICTED		2,420,635.09
249-000-393-000	FUND BALANCE - NONSPENDABLE		9,445.32
249-000-607-483	CASCADE TWP BLDG COM PERMITS		180,886.00
249-000-607-484	CASCADE TWP BLDG RES PERMITS		93,979.00
249-000-607-485	CASCADE TWP ELECTRICAL PERMITS		84,775.00
249-000-607-486	CASCADE TWP MECHANICAL PERMITS		92,525.25
249-000-607-487	CASCADE TWP PLUMBING PERMITS		46,053.00
249-000-607-488	CASCADE TWP PLAN REVIEWS		150,046.00
249-000-607-490	CASCADE TWP CONTRACTOR REG		10,755.00
249-000-607-500	LOWELL TWP BUILDING PERMITS		30,881.00
249-000-607-501	LOWELL TWP ELECTRICAL PERMITS		13,678.00
249-000-607-502	LOWELL TWP MECHANICAL PERMITS		13,105.00
249-000-607-503	LOWELL TWP PLUMBING PERMITS		8,496.00
249-000-607-511	VERGENNES TWP ELECTRICAL PERMITS		11,338.00
249-000-607-512	VERGENNES TWP MECHANICAL PERMITS		14,360.00
249-000-607-516	VERGENNES TWP PLUMBING PERMITS		7,143.00
249-000-607-520	ADA TWP BUILDING PERMITS		135,722.00
249-000-607-521	ADA TWP PLUMBING PERMITS		27,593.00
249-000-607-523	ADA TWP ELECTRICAL PERMITS		46,849.00
249-000-607-524	ADA TWP MECHANICAL PERMITS		52,430.25
249-000-607-531	GR TWP BUILDING PERMITS		219,211.00
249-000-607-532	GR TWP ELECTRICAL PERMITS		88,488.00
249-000-607-533	GR TWP MECHANICAL PERMITS		84,623.85
249-000-607-534	GR TWP PLUMBING PERMITS		43,359.00
249-000-607-536	EAST GR BUILDING PERMITS		66,181.00
249-000-607-537	EAST GR ELECTRICAL PERMITS		32,330.00
249-000-607-538	EAST GR MECHANICAL PERMITS		39,759.50
249-000-607-539	EAST GR PLUMBING PERMITS		24,684.00
249-000-607-541	EAST GR-RENTAL INSP		2,550.00
249-000-607-551	PLAINFIELD - ELECTRICAL PERMITS		82,020.00
249-000-607-552	PLAINFIELD MECHANICAL PERMITS		104,640.90
249-000-607-553	PLAINFIELD - PLUMBING PERMITS		53,987.00
249-000-607-560	LOWELL, CITY OF - BUILDING PERMITS		26,249.00
249-000-607-561	LOWELL, CITY OF - ELECTRICAL PERMITS		16,113.00
249-000-607-562	LOWELL, CITY OF - MECHANICAL PERMITS		10,417.50
249-000-607-563	LOWELL CITY OF - PLUMBING PERMITS		8,133.00

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TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
249-000-665-000	INTEREST REVENUE		14,817.40
249-000-671-671	MISCELLANEOUS INCOME		1,670.00
249-371-703-000	DIRECTOR OF INSPECTIONS	87,160.33	
249-371-706-000	BLDG WAGES/SALARY- KD	64,117.17	
249-371-706-302	BLDG INSPECTOR - JB	63,758.31	
249-371-706-303	BLDG INSPECTOR - WB	66,825.77	
249-371-706-304	BLDG INSPECTOR - DH	67,837.98	
249-371-706-305	BLDG INSPECTOR - JV/VM	63,758.31	
249-371-706-306	BLDG INSPECTOR / PT - SB	61,801.57	
249-371-706-309	BLDG INSPECTOR - DHU	58,560.72	
249-371-706-400	BUILDING CLERICAL I	39,285.20	
249-371-706-401	BUILDING CLERICAL II- JC	10,300.05	
249-371-706-402	BUILDING CLERICAL II - JK	27,753.75	
249-371-706-500	BLDG ADDITIONAL HELP	10,727.50	
249-371-723-000	MEMBERSHIPS AND DUES	1,000.00	
249-371-724-000	EDUCATION	2,810.38	
249-371-727-000	SUPPLIES	3,341.38	
249-371-757-000	SUPPLIES-ICC BOOKS	3,259.87	
249-371-768-000	DEPARTMENT UNIFORMS	3,823.49	
249-371-787-000	OTHER EXPENSES	219.31	
249-371-787-200	OTHER EXPENSES- CREDIT CARD FEES	13,307.68	
249-371-807-000	AUDIT FEES & SERVICES	910.00	
249-371-810-000	INSURANCE	7,277.55	
249-371-821-000	BLDG ENGINEERING	471.50	
249-371-860-000	MILEAGE	55,551.84	
249-371-862-500	DEPT HEAD, SUPV EXPENSES	417.58	
249-371-924-000	PHONES	925.01	
249-371-924-100	CELL PHONES	6,803.87	
249-371-932-000	OFFICE EQUIP & COMPUTER REPAIR	4,088.56	
249-371-939-000	SERVICE CONTRACTS	11,020.09	
249-371-940-000	BUILDING RENTAL-LEASE	10,522.78	
249-371-941-000	POSTAGE & MACHINE LEASE	600.00	
249-371-957-000	BLDG PHYSICAL EXAMS	402.76	
249-371-967-000	BLDG - SPECIAL PROJECTS	35,524.60	
249-371-981-000	SMALL EQUIPMENT/FURNITURE	4,834.82	
249-850-715-000	FICA-EMPLOYER	44,745.85	
249-850-717-000	WORKERS COMP INSURANCE	10,877.18	
249-850-718-000	VISION INSURANCE BENEFITS	1,214.40	
249-850-719-000	HEALTH INSURANCE BENEFITS	89,206.12	
249-850-719-100	OPT-OUT INSURANCE	3,000.00	
249-850-720-000	LIFE & DISABILITY INSURANCE	5,069.08	
249-850-721-000	DENTAL INSURANCE BENEFITS	7,327.42	
249-850-721-200	MI CLAIMS TAX - DENTAL	63.80	
249-850-722-000	PENSION PLAN BENEFITS	70,760.07	
249-901-975-000	CAPITAL OUTLAY - BLDGIMP	100,901.78	
249-964-964-100	PERMITS DUE TO LOWELL TWP	13,192.80	
249-964-964-200	PERMITS DUE TO VERGENNES TWP	6,208.80	
249-964-964-300	PERMITS DUE TO GR TWP	87,191.57	
249-964-964-400	PERMITS DUE TO ADA TWP	52,556.85	
249-964-964-500	PERMITS DUE TO EAST GR	32,557.90	

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TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
249-964-964-600	PERMITS DUE PLAINFIELD	48,118.58	
249-964-964-700	PERMITS DUE CITY OF LOWELL	12,234.30	
249-964-964-800	PERMITS DUE CASCADE TWP	96,749.85	
Total Fund 249 - BUILDING FUND		4,485,118.89	4,485,118.89

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BALANCE SHEET FOR CASCADE CHARTER TOWNSHIP  
Period Ending 12/31/2017  
PRE-AUDIT

GL Number	Description	Balance
Fund 249 - BUILDING FUND		
*** Assets ***		
249-000-001-100	CASH - CHEM	211,661.07
249-000-003-001	CD - INDEPENDENT BANK M 6/19/2019	310,211.97
249-000-003-018	CD - CHEMICAL BANK M 4/2019	300,000.00
249-000-003-021	FIRST NATIONAL BANK OF MI/ M 10/11/2015	511,395.83
249-000-003-024	FIRST NATIONAL BANK OF AMERICA	616,117.75
249-000-003-028	CONSUMER CREDIT UNION M 3/10/2020	305,310.87
249-000-003-029	CD - FIRST COMMUNITY BANK M5/27/2018	250,000.00
249-000-003-037	CHEMICAL BANK CD M10/28/2019	500,000.00
249-000-123-000	PREPAID EXPENSE	9,445.32
	Total Assets	3,014,142.81
*** Liabilities ***		
249-000-202-000	ACCOUNTS PAYABLE	96,028.47
249-000-204-000	ACCRUED PAYROLL	12,086.09
249-000-211-000	CONTRACT PAYABLE-RETAINAGE	7,075.27
	Total Liabilities	115,189.83
*** Fund Balance ***		
249-000-390-000	FUND BALANCE - RESTRICTED	2,420,635.09
249-000-393-000	FUND BALANCE - NONSPENDABLE	9,445.32
	Total Fund Balance	2,430,080.41
	Beginning Fund Balance	2,430,080.41
	Net of Revenues VS Expenditures	468,872.57
	Ending Fund Balance	2,898,952.98
	Total Liabilities And Fund Balance	3,014,142.81

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03/06/2018 REVENUE AND EXPENDITURE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	END BALANCE	2017		YTD BALANCE	ACTIVITY FOR		UNENCUMBERED	ENCUMBERED	% BDGT
		12/31/2016	ORIGINAL	2017	12/31/2017	MONTH 12/31/17	AVAIL BALANCE			
		NORM (ABNORM)	BUDGET	AMENDED BUDGET	NORM (ABNORM)	INCR (DECR)				
Fund 270 - LIBRARY FUND										
Revenues										
Dept 000										
270-000-401-402	TAX LEVY	188,553.38	193,125.00	193,125.00	193,444.69	0.00	(318.69)	0.00	100.17	
270-000-401-410	PERSONAL PROPERTY TAX	18,941.37	15,050.00	15,050.00	14,778.73	0.00	271.27	0.00	98.20	
270-000-401-412	DELINQUENT TAX LEVY	1,318.84	1,200.00	1,200.00	564.05	0.00	635.95	0.00	47.00	
270-000-401-437	ABATEMENT TAXES-LEVY	1,860.97	965.00	965.00	1,000.40	0.00	(85.60)	0.00	103.67	
270-000-401-441	COMMUNITY STABILIZATION SHARE TAX	0.00	3,644.00	13,860.00	13,860.12	13,860.12	(0.12)	0.00	100.00	
270-000-401-445	PENALTIES & INTEREST ON TAX	30.61	75.00	75.00	37.48	0.00	37.52	0.00	49.97	
270-000-587-587	KENT DISTRICT LIBRARY PAYMENT	32,869.52	32,869.00	32,869.00	32,869.52	8,217.38	(0.02)	0.00	100.00	
270-000-665-000	INTEREST REVENUE	13,620.66	29,000.00	29,000.00	29,189.28	412.80	(189.28)	0.00	100.65	
Total Dept 000		257,195.35	275,928.00	286,144.00	285,744.27	22,490.30	399.73	0.00	99.86	
TOTAL REVENUES		257,195.35	275,928.00	286,144.00	285,744.27	22,490.30	399.73	0.00	99.86	
Expenditures										
Dept 790 - LIBRARY										
270-790-727-000	LIBRARY SUPPLIES	2,653.80	6,600.00	6,600.00	3,868.36	0.00	1,393.00	1,338.64	78.89	
270-790-729-000	LIB ELECTRONIC SUBSCRIPTIONS	1,632.00	900.00	900.00	882.00	0.00	18.00	0.00	98.00	
270-790-757-000	LIBRARY OPERATIONAL EXPENSES	0.00	200.00	200.00	0.00	0.00	200.00	0.00	0.00	
270-790-787-000	LIBRARY OTHER EXPENSES	0.00	1,000.00	1,000.00	63.25	0.00	936.75	0.00	6.33	
270-790-802-200	LIBRARY JANITORIAL CONTRACT	23,964.00	2,800.00	28,000.00	34,728.60	5,951.20	(9,704.20)	2,975.60	134.66	
270-790-810-000	LIBRARY PROPERTY INSURANCE	11,021.50	11,574.00	12,129.00	12,129.25	0.00	(0.25)	0.00	100.00	
270-790-921-000	LIBRARY ELECTRICITY	54,647.00	55,000.00	55,000.00	51,807.35	7,537.51	3,192.65	0.00	94.20	
270-790-923-000	LIBRARY HEATING	7,715.68	16,000.00	16,000.00	7,063.83	2,419.08	8,936.17	0.00	44.15	
270-790-924-000	LIBRARY PHONES	708.88	800.00	800.00	690.87	62.66	109.13	0.00	86.36	
270-790-927-000	LIBRARY WATER-SEWER	5,389.80	6,500.00	8,500.00	8,165.49	0.00	334.51	0.00	96.06	
270-790-931-000	LIBRARY MAINTENANCE	61,155.41	65,000.00	65,000.00	64,953.16	10,938.45	(10,666.44)	10,707.28	116.40	
270-790-931-100	LIBRARY MAINT/ADDITIONAL	11,640.00	16,336.00	16,336.00	16,336.00	16,134.46	0.00	0.00	100.00	
270-790-950-000	PROPERTY TAX REFUNDS	144.02	100.00	100.00	7.50	0.00	92.50	0.00	7.50	
270-790-981-000	SMALL EQUIPMENT/FURNITURE	931.52	1,000.00	1,000.00	0.00	0.00	1,000.00	0.00	0.00	
Total Dept 790 - LIBRARY		181,603.61	183,810.00	211,565.00	200,695.66	43,043.36	(4,152.14)	15,021.52	101.96	
Dept 901 - CAPITAL OUTLAY										
270-901-980-650	LIBRARY CIP	0.00	0.00	60,000.00	34,970.00	0.00	25,030.00	0.00	58.28	
Total Dept 901 - CAPITAL OUTLAY		0.00	0.00	60,000.00	34,970.00	0.00	25,030.00	0.00	58.28	
TOTAL EXPENDITURES		181,603.61	183,810.00	271,565.00	235,665.66	43,043.36	20,877.82	15,021.52	92.31	
Fund 270 - LIBRARY FUND:										
TOTAL REVENUES		257,195.35	275,928.00	286,144.00	285,744.27	22,490.30	399.73	0.00	99.86	
TOTAL EXPENDITURES		181,603.61	183,810.00	271,565.00	235,665.66	43,043.36	20,877.82	15,021.52	92.31	
NET OF REVENUES & EXPENDITURES		75,591.74	92,118.00	14,579.00	50,078.61	(20,553.06)	(20,478.09)	(15,021.52)	240.46	
BEG. FUND BALANCE		1,903,636.29	1,979,228.03	1,979,228.03	1,979,228.03					
END FUND BALANCE		1,979,228.03	2,071,346.03	1,993,807.03	2,029,306.64					
TOTAL REVENUES - ALL FUNDS										
TOTAL REVENUES - ALL FUNDS		11,142,940.67	11,101,648.00	12,172,627.00	11,866,120.44	808,312.52	306,506.56	0.00	97.48	
TOTAL EXPENDITURES - ALL FUNDS										
TOTAL EXPENDITURES - ALL FUNDS		9,823,386.78	11,620,570.00	12,171,726.00	10,727,587.49	1,782,604.00	1,357,891.74	86,246.77	88.84	
NET OF REVENUES & EXPENDITURES		1,319,553.89	(518,922.00)	901.00	1,138,532.95	(974,291.48)	(1,051,385.18)	(36,216.77)	#####	
BEG. FUND BALANCE - ALL FUNDS		20,497,357.94	21,816,911.83	21,816,911.83	21,816,911.83					
END FUND BALANCE - ALL FUNDS		21,816,911.83	21,297,989.83	21,817,812.83	22,955,444.78					

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TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 270 - LIBRARY FUND			
270-000-003-014	CD - LAKE MICH CR UN #46 M9/20/2018	860,306.43	
270-000-003-026	CD - WEST MI COMMUNITY BANK M 6/1/2018	254,471.21	
270-000-003-027	CD - NORTHPOINTE BANK MM 4/7/2018	533,905.65	
270-000-015-023	LIBRARY M/M UNITED BANK	392,305.30	
270-000-020-000	TAXES RECEIVABLE	98,630.05	
270-000-084-000	DUE FROM OTHER FUNDS	117,709.13	
270-000-202-000	ACCOUNTS PAYABLE		11,681.95
270-000-339-000	DEFERRED REVENUE		216,339.18
270-000-390-000	FUND BALANCE - RESTRICTED		1,384,228.03
270-000-391-001	FUND BALANCE - COMMITTED/MAJOR REPAIRS11		400,000.00
270-000-391-003	FUND BALANCE - COMMITTED/PP TAX 2012		195,000.00
270-000-401-402	TAX LEVY		193,444.69
270-000-401-410	PERSONAL PROPERTY TAX		14,778.73
270-000-401-412	DELINQUENT TAX LEVY		564.05
270-000-401-437	ABATEMENT TAXES-LEVY		1,000.40
270-000-401-441	COMMUNITY STABILIZATION SHARE TAX		13,860.12
270-000-401-445	PENALTIES & INTEREST ON TAX		37.48
270-000-587-587	KENT DISTRICT LIBRARY PAYMENT		32,869.52
270-000-665-000	INTEREST REVENUE		29,189.28
270-790-727-000	LIBRARY SUPPLIES	3,868.36	
270-790-729-000	LIB ELECTRONIC SUBSCRIPTIONS	882.00	
270-790-787-000	LIBRARY OTHER EXPENSES	63.25	
270-790-802-200	LIBRARY JANITORIAL CONTRACT	34,728.60	
270-790-810-000	LIBRARY PROPERTY INSURANCE	12,129.25	
270-790-921-000	LIBRARY ELECTRICITY	51,807.35	
270-790-923-000	LIBRARY HEATING	7,063.83	
270-790-924-000	LIBRARY PHONES	690.87	
270-790-927-000	LIBRARY WATER-SEWER	8,165.49	
270-790-931-000	LIBRARY MAINTENANCE	64,953.16	
270-790-931-100	LIBRARY MAINT/ADDITIONAL	16,336.00	
270-790-950-000	PROPERTY TAX REFUNDS	7.50	
270-901-980-650	LIBRARY CIP	34,970.00	
Total Fund 270 - LIBRARY FUND		2,492,993.43	2,492,993.43

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BALANCE SHEET FOR CASCADE CHARTER TOWNSHIP  
Period Ending 12/31/2017  
PRE-AUDIT

GL Number	Description	Balance
Fund 270 - LIBRARY FUND		
*** Assets ***		
270-000-003-014	CD - LAKE MICH CR UN #46 M9/20/2018	860,306.43
270-000-003-026	CD - WEST MI COMMUNITY BANK M 6/1/2018	254,471.21
270-000-003-027	CD - NORTHPOINTE BANK MM 4/7/2018	533,905.65
270-000-015-023	LIBRARY M/M UNITED BANK	392,305.30
270-000-020-000	TAXES RECEIVABLE	98,630.05
270-000-084-000	DUE FROM OTHER FUNDS	117,709.13
	Total Assets	2,257,327.77
*** Liabilities ***		
270-000-202-000	ACCOUNTS PAYABLE	11,681.95
270-000-339-000	DEFERRED REVENUE	216,339.18
	Total Liabilities	228,021.13
*** Fund Balance ***		
270-000-390-000	FUND BALANCE - RESTRICTED	1,384,228.03
270-000-391-001	FUND BALANCE - COMMITTED/MAJOR REPAIRS11	400,000.00
270-000-391-003	FUND BALANCE - COMMITTED/PP TAX 2012	195,000.00
	Total Fund Balance	1,979,228.03
	Beginning Fund Balance	1,979,228.03
	Net of Revenues VS Expenditures	50,078.61
	Ending Fund Balance	2,029,306.64
	Total Liabilities And Fund Balance	2,257,327.77

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TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
 PERIOD ENDING 12/31/2017  
 PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 701 - TRUST AND AGENCY			
701-000-003-002	CD-HENRY KRAMER BOND M 10/16/2015	15,194.19	
701-000-003-004	CD-JACK SMITH/INVEST M 10/16/2015	22,852.82	
701-000-003-018	CD - CHEMICAL BANK JAMES TIMMONS	12,400.00	
701-000-015-004	MONEY MARKET - CHEMICAL BANK	174,671.44	
701-000-214-000	DUE TO GENERAL FUND		4.63
701-000-230-004	T&A INTERST DUE GF		0.92
701-000-250-080	CASCADE POINTE-PATHWAY BOND		9,554.62
701-000-250-173	PATHWAYS-WOLVERINE BLDG GROUP- 6010 28TH		1,800.00
701-000-250-174	PAYHWAYS - WOOD BUILDERS HOME 8/2017		500.00
701-000-252-040	ROUND HILL PROJECT S/W12/2016		1,550.25
701-000-252-050	WALMART S/W INSP GR 3/2013		826.83
701-000-252-166	REDWOOD LIVING/WHITE WATER S/W 4/2014		3,413.30
701-000-252-167	RIDGES OF CASCADE S/W 4/2014		948.12
701-000-252-168	STONESHIRE PHASE II S/W 4/2014		1,559.25
701-000-252-200	GROOTERS 52ND ST PROJ S/W 4/2017	4,150.75	
701-000-252-215	BAYBERRY CHASE/RL SW 12/17/2017		20,000.00
701-000-252-227	CASCADE MARKETPLACE 5/08		8,858.33
701-000-252-230	FORD AIRPORT PK LOT S/W		8,468.75
701-000-252-231	DRURY DEVELOPMENT S/W 9/2015		4,201.08
701-000-252-232	FORD AIRPORT VIEWING PARK		32.00
701-000-252-236	LACKS TRIM DIV S/W 1/2016		4,518.05
701-000-252-751	GLENWOOD HILLS S/W BOND		23,211.72
701-000-253-221	UNIVERSAL SIGN SYSEMS 17-3397 7/2017		48.34
701-000-253-328	MIEDEMA METAL BUILDING SYSTEM 11/14		26.00
701-000-253-360	WOLVERING BLDG GROUP 16-3318 6/2016		500.00
701-000-253-373	ROBERT GROOTER 17-3386 5/2017		500.00
701-000-253-375	WATERFALL SHOPPES LLC 17-3389 6/2017		500.00
701-000-253-376	TOWN CENTER INN & SUITES 17-3391 6/2017		500.00
701-000-253-377	JAMNBEAN/FREEDOM REINS FARM 17-3392 7/17		500.00
701-000-253-378	PARADIGM DESIGN INC 17-3395 7/17		500.00
701-000-253-379	2771 ORANGE AVE LLC 17-3401 8/2017		500.00
701-000-253-382	RJP CONSULTING INC 17-3407 9/2017		500.00
701-000-253-384	FIRST COMPANIES 17-3413 9/2017-		500.00
701-000-253-385	INNOVATIVE DESIGN PC 17-3419 10/2017		500.00
701-000-253-386	LACK ENTERPRISES INC 17-3421 10/2017		500.00
701-000-253-387	NEDERVELD 17-3423 10/2017		500.00
701-000-253-388	BENITEAU RESIDENTIAL LLC 17-3424 11/2017		500.00
701-000-253-389	ALPHA LIMA VENTURES LLC 17-3425 11/2017		500.00
701-000-253-390	QUAIL RIDGE GOLF COURSE17-3428 12/2017		500.00
701-000-253-391	THORNAPPLE EVANGELICAL 17- 3429 12/17		500.00
701-000-255-000	CUSTOMER DEPOSIT AND INTEREST PAYABLE		500.00
701-000-255-741	JAMES TIMMONS TRUST		12,400.00
701-000-255-742	JACKS SMITH (IRF) M 10/16/2015		22,852.82
701-000-255-743	CUSTOMER DEPOSITS- SOLICITATION BONDS		800.00
701-000-283-004	REDWOOD LIVING PERFORMANCE BOND 13-3139		10,000.00
701-000-283-008	KOOISTRA, DAVID PRIVATE RD BOND 09/2017		60,000.00
701-000-283-167	GARY KUHLMANN 11/2017		10,000.00
701-000-283-740	HENRY KRAMER PERFORMANCE BOND		15,194.19

76 50

03/06/2018

TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

<u>GL NUMBER</u>	<u>DESCRIPTION</u>	<u>BALANCE DEBIT</u>	<u>BALANCE CREDIT</u>
Total Fund 701 - TRUST AND AGENCY		229,269.20	229,269.20

76 51

03/06/2018

TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
Fund 703 - CURRENT TAX COLLECTION FUND			
703-000-001-001	CASH (CASH DRAWER)	150.00	
703-000-001-100	CASH -CHEM	4,542,481.43	
703-000-001-102	CASH-CHEM /DELQ TAX	1,911.24	
703-000-001-103	CASH- CHEM /TAX WIRE	1.71	
703-000-202-000	ACCOUNTS PAYABLE		467.20
703-000-214-100	CCT-PATHWAYS		312,221.80
703-000-214-105	CCT-POLICE		359,705.61
703-000-214-110	CCT - OPERATING TAXES		761,277.04
703-000-214-112	CCT - OVER/SHORT		2.68
703-000-214-115	CCT - FIRE		1,030,506.93
703-000-214-116	CCT OPEN SPACE		180,193.64
703-000-214-120	CCT - LIBRARY		117,671.92
703-000-214-135	CCT- SPECIAL ASSESSMENTS		8,149.38
703-000-214-140	CCT - STREET LIGHTS		42,648.65
703-000-214-155	CCT - ADMIN		23,457.99
703-000-214-200	CCT - IFT PATHWAYS		98.87
703-000-214-205	CCT - IFT POLICE		113.90
703-000-214-210	CCT - IFT OPERATING TAXES		241.06
703-000-214-215	CCT - IFT FIRE		326.31
703-000-214-216	CCT OPEN SPACE IFT		57.06
703-000-214-220	CCT-IFT LIBRARY		37.21
703-000-222-110	KENT COUNTY - OPERATING		14,375.98
703-000-222-111	KENT COUNTY - INTEREST		1,381.11
703-000-222-160	KENT COUNTY - JAIL		145,659.21
703-000-222-165	KENT COUNTY - ZOO/MUSEUM		81,195.53
703-000-222-170	KENT COUNTY - SENIOR		92,260.79
703-000-222-172	KENT COUNTY - VETERAN'S MILLAGE		9,206.91
703-000-222-175	KENT COUNTY - DOG LICENSE		277.60
703-000-223-110	KDL - TAXES		236,757.18
703-000-225-110	FHPS - OPERATING		186,581.99
703-000-225-111	FHPS - INTEREST		758.25
703-000-225-120	FHPS - DEBT		656,038.58
703-000-225-130	FHPS - RECREATION		86,317.56
703-000-225-410	CALEDONIA - OPERATING		74,579.30
703-000-225-411	CALEDONIA - INTEREST		67.51
703-000-225-420	CALEDONIA - DEBT		49,633.63
703-000-226-110	LOWELL - OPERATING		626.59
703-000-226-111	LOWELL - INTEREST		7.12
703-000-226-120	LOWELL - DEBT		6,586.31
703-000-226-130	LOWELL BLDG/SITE		928.98
703-000-228-001	SET & OPERATING TAX (COUNTY)		20,151.92
703-000-230-001	TAX INT- DUE TO OTHER UNIT GOVT		575.97
703-000-230-002	DELQ TAX - DUE TO OTHER UNIT OF GOVT		1,893.02
703-000-230-003	WIRE ACCT-DUE TO OTHER UNIT GOVT		1.00
703-000-230-043	WIRE- ONLINE SERVICE FEES		1.20
703-000-230-044	TAX NSF FEES		87.89
703-000-234-110	KENT ISD - TAXES		19,041.53
703-000-234-111	KENT ISD - TAXES INTEREST		761.65

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03/06/2018

TRIAL BALANCE REPORT FOR CASCADE CHARTER TOWNSHIP  
PERIOD ENDING 12/31/2017  
PRE-AUDIT

GL NUMBER	DESCRIPTION	BALANCE DEBIT	BALANCE CREDIT
703-000-235-110	GRCC - TAXES		5,974.28
703-000-235-111	GRCC - TAXES INTEREST		238.97
703-000-274-000	UNDISTRIBUTED TAX COLLECTION		450.77
703-000-275-000	DUE TO TAXPAYERS		14,948.80
Total Fund 703 - CURRENT TAX COLLECTION FUND		4,544,544.38	4,544,544.38
Total - All Funds:		48,533,090.99	48,533,090.99

**STAFF REPORT**

TO: Cascade Charter Township Board  
FROM: Steve Peterson, Community Development Director  
REPORT DATE: March 7, 2018  
MEETING DATE: March 13, 2018  
CASE: #17-3395/Remark Real Estate PUD rezoning

**GENERAL INFORMATION**

- A. **Applicant:** Restaurant Holdings LLC  
45 Ottawa Ave  
Suite 600  
Grand Rapids MI 49503
- B. **Status of Applicant:** Developer - purchaser
- C. **General Location:** NW corner of 28<sup>th</sup> st and Northern Industrial Dr.
- D. **Requested Action:** Rezone the property to a Planned Unit Development to allow two separate buildings.
- E. **Existing Zoning on Subject Parcels:** B2, General Business
- F. **Zoning on Adjoining Parcels:**  
N – B2  
S – PUD 76  
E – ES  
W – B2
- G. **Parcel Size:** Approximately 2.8 acres
- H. **Existing Land Use on Subject Parcel:** two restaurants in one building.
- I. **Adjacent Area Land Uses:**  
North - commercial  
East - McDonalds  
South - Waterfall Shoppes  
West - Auto parts store

**STAFF ANALYSIS**

- A. The applicant is requesting Final Plan Approval in order to develop the site into two separate restaurants.
- B. Currently an occupied IHOP and an unoccupied Don Julio restaurant are on site.

- C. They would like to maintain the IHOP portion of the building and remove the Don Julio portion of the building to accommodate a new Wendy's restaurant.
- D. The site was originally developed in 2002 and allowed for one large building that could meet our requirements and allow for two restaurants sites. Much like a strip mall has multiple uses.
- E. The proposal now would allow two small restaurants on their own parcel. This change would require several exceptions from our ordinance requirements, which seems to be driven by the need to have a drive thru.
- F. The site has adequate parking for the two proposed restaurants. A total of 162 parking spaces are planned and 81 would be required. The total sizes of the buildings are roughly the same as it was when it was one building. The purchase agreement includes a shared parking agreement. They have provided documentation of this agreement.
- G. The township did hold a meeting with the property owners in the area to see what type of interest they had in making Northern Drive a public road an connecting it to Starr St to give through access from 28<sup>th</sup> St and Patterson. The DDA has it on their plan to assist with traffic flow in the area. The plan would include a connection and extension of Starr St to make this happen. If this P.U.D. plan were to move forward, staff has insisted on an agreement that they participate in a SAD for the extension and conversion of the road to connect to Starr St and become public. They have agreed to participate in a future SAD agreement. This has been included in the PUD language.
- H. They also show an addition curb cut to Northern drive with a right in only movement.
- I. The plan includes a 7 foot sidewalk along Northern Dr that would be turned over to the DDA once constructed.
- J. The new plan does not meet some of the underlying zoning regulations. These deviations from the ordinance are:

	Underlying zoning	Proposed	Comments
Parcel Size	Minimum of 3 acres	IHOP 1.24 acres Wendy's 1.63 Acres	We have allowed other outlots on smaller than 3 acres, if satisfied with the rest of the development. Most recently the Christian Brothers project in front of the Meijer store and the new Taco bell site.
Setbacks	100 foot front	55 foot front setback for Wendy's from Northern Ind Dr	The proposed front setback (from Norther Ind Dr.) does not comply as the result of going to a separate building.
Signs	25 feet setback 30 feet tall 125 sq ft for Wendy's	Wendy's is asking for 90.5. IHOP 90.5 sq ft	They are asking to divide the total amount of pylon signage allowed  They are not asking for any wall

Remark Real Estate PUD

TB

Case 17-3395

Page 2

	56 sq ft for IHOP  Wall signage limited to 100 sq ft total		signage deviations.
Curb cut	150 feet	68 feet	Appears to be driven by the traffic flow need of the drive through. This curb was probably the most talked about item at the Planning Commission. After getting it moved as far north as the applicant would agree, the Planning Commission was willing to accept given the developers willingness to cooperate with signage, SAD and sidewalk requests by the Township.

- K. The Master Plan designation for this property is Highway commercial. This designation is in line with the B2 zoning district.
- L. Storm water has been reviewed and approved by the Township engineer.
- M. It should be understood that the access to the neighboring property (McDonalds) is allowed to be open at all times and must be in good repair.

**A. Standards**

Section 16.03 of the Zoning Ordinance requires that a Planned Unit Development must demonstrate that:

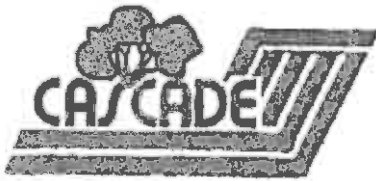
Standard	Staff Comment
Granting of the Planned Unit Development rezoning will result in a recognizable and substantial benefit to the ultimate users of the project and to the community, where such benefit would otherwise be unfeasible or unlikely to be achieved.	The inclusion of the SAD agreement would be a benefit to the users and community if the improvements come to fruition.
In relation to underlying zoning, the proposed type and density of use shall not result in a material increase in the need for public services, facilities and utilities, and shall not place a material burden upon the subject or surrounding land or property owners and occupants	The type and density of the proposed uses are no issue.

or the natural environment	
The proposed development shall be compatible with the General Development Plan of the Township, and shall be consistent with the intent and spirit of this Chapter	The development of Northern Dr as a public street is a goal of the Township. The applicant is now willing to participate.
In relation to underlying zoning, the proposed development shall not result in an unreasonable negative economic impact upon surrounding properties	The proposed development should not result in a negative economic impact to the surrounding properties. Staff is a bit concerned for the new curb cut but the willingness to participate in the SAD would outweigh that concern and ultimately have a positive impact on the surrounding properties.
The proposed development shall contain at least as much green area and usable open space as would otherwise be required by this Ordinance with respect to the most dominant use in the development	Met
The proposed development shall be under single ownership or control such that there is a single person or entity having responsibility for completing the project in conformity with this Ordinance. This provision shall not prohibit a transfer of ownership or control, upon due notice to the Planning Director of the Township	met

**Staff Recommendation**

Staff recommends approval of the PUD as shown. The applicant has reviewed the proposed PUD language and has agreed to the language being proposed.

- Attachments:
- Application
  - Site plan
  - Master Plan excerpts
  - Proposed PUD Ordinance



# CASCADE CHARTER TOWNSHIP

2865 Thornhills SE Grand Rapids, Michigan  
49546-7140

## PLANNING & ZONING APPLICATION

**APPLICANT:** Name: Restaurant Holdings, LLC  
Address: 45 Ottawa AVE SW, SUITE 600  
City & Zip Code: Grand Rapids, MI 49503  
Telephone: 616-776-2600  
Email Address: abesmer@mhgi.net

**OWNER: \* (if different from Applicant)**  
Name: Remark Real Estate, LLC  
Address: 2500 Breton Woods Drive SE, # 2063  
City & Zip Code: Grand Rapids, MI 49512  
Telephone: \_\_\_\_\_  
Email Address: \_\_\_\_\_

**NATURE OF THE REQUEST: (Please check the appropriate box or boxes)**

- |                                     |                                    |                                     |                                 |
|-------------------------------------|------------------------------------|-------------------------------------|---------------------------------|
| <input type="checkbox"/>            | Administrative Appeal              | <input type="checkbox"/>            | Administrative Site Plan Review |
| <input type="checkbox"/>            | Deferred Parking                   | <input checked="" type="checkbox"/> | P.U.D. - Rezoning *             |
| <input type="checkbox"/>            | P.U.D. - Site Condominium *        | <input type="checkbox"/>            | Rezoning                        |
| <input checked="" type="checkbox"/> | Site Plan Review *                 | <input type="checkbox"/>            | Sign Variance                   |
| <input checked="" type="checkbox"/> | Special Use Permit (Drive Through) | <input type="checkbox"/>            | Subdivision Plat Review *       |
| <input type="checkbox"/>            | Zoning Variance                    | <input type="checkbox"/>            | Other: _____ *                  |

*\* Requires an initial submission of 5 copies of the completed site plan*

**BRIEFLY DESCRIBE YOUR REQUEST:\*\***

Demolish the former Don Julio's restaurant and construct a stand alone Wendy's restaurant  
with drive through. Property will be split into 2 parcels through PUD process.

(\*\*Use Attachments if Necessary)  
-SEE OTHER SIDE-

LEGAL DESCRIPTION OF PROPERTY\*\*:

See ALTA survey

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(\*\*Use Attachments if Necessary)

PERMANENT PARCEL (TAX) NUMBER: 41-19 07-376-042 and 07-376-601

ADDRESS OF PROPERTY: 5039 28th Street, SE

PRESENT USE OF THE PROPERTY: 2 restaurants connected as a single principal structure

NAME(S) & ADDRESS(ES) OF ALL OTHER PERSONS, CORPORATIONS, OR FIRMS HAVING A LEGAL OR  
EQUITABLE INTEREST IN THE PROPERTY:

Name(s)

Address(es)

Hospitality Holdings, LLC

405 South Mission Street Mt. Pleasant, MI 48858

SIGNATURES

*I (we) the undersigned certify that the information contained on this application form and the required documents attached hereto are to the best of my (our) knowledge true and accurate. I (we) also agree to reimburse the Cascade Charter Township for all costs, including consultant costs, to review this request in a timely manner. I (we) understand that these costs may also include administrative reviews which may occur after the Township has taken action on my (our) request.*

*I (we) the undersigned also acknowledge that the proposed project does not violate any known property restrictions (i.e. plat restrictions, deed restrictions, covenants, etc.)*

See purchase agreement

Owner - Print or Type Name  
(\*If different from Applicant)

Gary A. Rose, Manager

Applicant - Print or Type Name

[Signature] 7/12/17

Owner's Signature & Date  
(\*If different from Applicant)

Applicant's Signature & Date

PLEASE ATTACH ALL REQUIRED DOCUMENTS NOTED IN THE PROCESS REVIEW SHEET - THANK YOU

**CASCADE CHARTER TOWNSHIP**

**Ordinance # \_\_\_ of 2018**

**AN ORDINANCE TO AMEND THE CASCADE CHARTER TOWNSHIP ZONING  
ORDINANCE AND ZONING MAP TO ESTABLISH THE  
RESTAURANT HOLDINGS, LLC  
PLANNED UNIT DEVELOPMENT PROJECT.**

**Cascade Charter Township Ordains:**

**Section I. An Amendment to The Cascade Charter Township Zoning Ordinance.**

The application received from Restaurant Holdings, LLC, or its assigns (hereinafter referred to as the "Developer"), to rezone property to Planned Unit Development designation for the Restaurant Holdings Planned Unit Development Project (hereinafter referred to as the "Project") was recommended by the Cascade Charter Township Planning Commission for approval on \_\_\_\_\_. The Project is recommended for rezoning to accommodate two separate restaurants on two separate properties. This action requires an amendment to the Cascade Charter Township Zoning Ordinance and Zoning Map to incorporate the Planning Commission's recommendation and the Cascade Charter Township Board of Trustees' action on \_\_\_\_\_.

**Section II. Legal Description.**

The legal description of the Project is as follows:

**PARCEL 1:**

That part of the Southwest 1/4 of Section 7, Town 6 North, Range 10 West, Cascade Township, Kent County, Michigan, described as: Commencing at the Southwest corner of Section 7; thence North 87 degrees 58 minutes 30 seconds East 1431.24 feet along the South line of said Southwest 1/4; thence North 1 degree 57 minutes 08 seconds West 475.0 feet along a line which is parallel with the West line of the East 1/2 of the South 80 acres of the Southwest fractional 1/4 of Section 7 to the place of beginning of this description; thence North 1 degree 57 minutes 08 seconds West 80.00 feet; thence North 87 degrees 55 minutes 30 seconds East 350.24 feet; thence South 1 degree 13 minutes 45 seconds East 80.01 feet parallel with the East line of said Southwest 1/4; thence South 87 degrees 58 minutes 30 seconds West 349.23 feet to the place of beginning.

Subject to and together with an easement for ingress and egress over the following described Commencing on the North line of 28th Street, 140.0 feet East from the West line of the East 1/2 of the South 80 acres of the Southwest fractional 1/4; thence North

00 degrees 05 minutes 30 seconds East 717.80 feet parallel with the West line of said East 1/2 of the South 80 acres of the Southwest fractional 1/4; thence Northwesterly 47.70 feet on a 66 foot radius curve to the left; thence Northerly, Easterly and Southwesterly 302.75 feet on a 66 foot radius curve to the right; thence Southwesterly 47.70 feet on a 66 foot radius curve to the left; thence South 00 degrees 05 minutes 30 seconds West 718.13 feet parallel with the West line of said East 1/2 of the South 80 acres of the Southwest fractional 1/4 to the North line of 28th Street; thence 66.0 feet along the North line of 28th Street to the place of beginning.

**PARCEL 2:**

That part of the Southwest 1/4 of Section 7, Town 6 North, Range 10 West, Cascade Township, Kent County, Michigan, described as: Beginning at a point on the South line of said Section, which is North 87 degrees 58 minutes 30 seconds East 1431.24 feet from the Southwest corner of said Section 7; thence North 1 degree 57 minutes 08 seconds West 475.0 feet along a line which is 173 feet Easterly of and parallel with the West line of the East 1/2 of the South 80 acres of the Southwest fractional 1/4 of Section 7, this also being the centerline of Northern Industrial Drive; thence North 87 degrees 58 minutes 30 seconds East 349.23 feet; thence South 1 degree 13 minutes 45 seconds East 475.05 feet parallel with the Easterly line of said Southwest 1/4 to a point on the South line of said Section, which is South 87 degrees 58 minutes 30 seconds West 742.0 feet from the South 1/4 corner; thence South 87 degrees 58 minutes 30 seconds West 343.24 feet along the South line of Section 7 to the place of beginning. Subject to and together with an easement for ingress and egress over the following described Commencing on the North line of 28th Street, 140.0 feet East from the West line of the East 1/2 of the South 80 acres of the Southwest fractional 1/4; thence North 00 degrees 05 minutes 30 seconds East 717.80 feet parallel with the West line of said East 1/2 of the South 80 acres of the Southwest fractional 1/4; thence Northwesterly 47.70 feet on a 66 foot radius curve to the left; thence Northerly, Easterly and Southwesterly 302.75 feet on a 66 foot radius curve to the right; thence Southwesterly 47.70 feet on a 66 foot radius curve to the left; thence South 00 degrees 05 minutes 30 seconds West 718.13 feet parallel with the West line of said East 1/2 of the South 80 acres of the Southwest fractional 1/4 to the North line of 28th Street; thence 66.0 feet along the North line of 28th Street to the place of beginning.

**Section III. General Provisions.**

The following provisions shall hereby apply to the Project, in addition to those Provisions outlined in Chapter 16 of the Cascade Charter Township Zoning Ordinance (Ordinance No. 11 of 1988, as amended).

**Section IV. Purpose.**

The Project occupies approximately 3.5 of land. The project is proposed to be developed into two, separate restaurants on two, separate properties. The regulations contained herein are established to define the procedures necessary to ensure high-quality development in the Project. Additionally, they are designed to achieve integration of this development with adjacent land uses.

**Section V. Approval Limitations.**

- A. The provisions of this Ordinance are not intended as a substitute for the Cascade Charter Township Zoning Ordinance and the General Development Plan nor do they in any way relieve the Developer from obtaining all approvals and permits required by the Township, except as otherwise expressly provided herein. In the event that a development issue or site plan element is not addressed by this Ordinance, the specifications and requirements of the Cascade Charter Township Zoning Ordinance shall be enforced. Furthermore, all other Cascade Charter Township ordinances shall still govern the Project where applicable.
- B. Except as otherwise provided herein, the Developer and its assigns must meet all applicable provisions and regulations of Cascade Charter Township, as well as federal and state law, and must obtain all necessary approvals from state and county governmental agencies that are required for construction, operation, or use.
- C. If any condition imposed herein is determined to be illegal or contrary to law as a result of a successful legal challenge by the Developer or its assigns, or any other party, the Township reserves the right to review the entire Project under the PUD provisions of the Cascade Charter Township Zoning Ordinance and to withdraw its approval of this PUD if it finds that, absent the effect of any condition imposed herein, the PUD no longer meets the standards for PUD approval contained in the Zoning Ordinance.
- D. If constructed, the Project must be constructed and operated, and all properties therein used, in strict compliance with the PUD approval (including this Ordinance and the final approved site plan), and no deviations can occur without prior, formal, written approval by the Township. So-called minor deviations shall not occur unilaterally by the Developer or its successors, tenants, or assigns, but may be authorized by the Township in accordance with Section 16.12 and Section 21.04 of the Zoning Ordinance. Any deviation without prior, formal, written approval by the Township will constitute a violation of this Ordinance and the Cascade Charter Township Zoning Ordinance.
- E. **This approval document shall be recorded with the Kent County Register of Deeds by the Developer prior to construction occurring on site and shall run with and bind the lands involved. Copies of this recorded document shall be supplied by the Developer to the Cascade Charter Township Clerk before any construction occurs on site.**
- F. Failure to comply with the site plan or any condition of approval herein shall be deemed to be both a nuisance per se and a violation of the Cascade Charter Township Zoning Ordinance.

- G. Prior to recording a copy of this document as specified in Section V(E) hereof, the Developer shall type the following statement onto the end of this document (or add an additional page to the document) as follows:

Restaurant Holdings, LLC has fully read the above PUD ordinance amendment, understands its provisions, and fully agrees with all requirements and conditions contained in the same, on behalf of itself and its assigns, successors, and transferees in and to the property involved."

#### **Section VI. Documents and Plans.**

- A. The Project shall be developed in accordance with the site plan approved and signed by the Township. Engineering plans and documents relating to utilities, topography, drainage, and the survey of the Project shall be reviewed and approved by the Township Engineer. Approval of these documents shall be based upon their meeting the requirements of Section 16.11(4) of the Zoning Ordinance and meeting recognized, acceptable, engineering standards and practices. Once it has been determined that the plans have met Township requirements, the Township Engineer shall sign and mark these plan documents as "Approved" and forward them to the Developer. Only approved plan documents shall be recorded with the appropriate county and state agencies.

#### **Section VII. Permitted Uses.**

The permitted uses for the Restaurant Holdings, LLC PUD as approved by the Township Board on \_\_\_\_\_ are as follows:

- A. One sit-down restaurant
- B. One drive-thru (fast-food type) restaurant
- C. Signs. Provided all signs for the Project shall conform with this ordinance or Section 6.02 of the Cascade Charter Township Sign Ordinance (Ordinance 14 of 1997, as amended).
- D. Exterior Lighting. Lighting shall be consistent with the approved lighting plan dated \_\_\_\_\_.

#### **Section VIII. Design Guidelines, Requirements and Limitations.**

The Project shall be developed in accordance with the site plan approved by the Township dated \_\_\_\_\_. No alterations, expansions, or additions may take place to the Project without an amendment to this Ordinance, unless authorized otherwise herein.

- A. The Project shall be limited to a maximum of two restaurants.

- B. Maximum Building or Structure Height - no more than thirty-five (35) feet.
- C. Setback Requirements - All buildings and structures shall meet the following minimum setback requirements:
  - a. 28<sup>th</sup> St ROW – one hundred (100) feet
  - b. North property line – twenty-five (25) feet
  - c. East property line – twenty-five (25) feet
  - d. West (Northern Dr) ROW – fifty-five (55) feet
- D. Minimum Parking Requirements
  - a. A minimum of eighty (80) parking spaces across both properties.
  - b. Both properties are required to allow shared parking and access on each property. Including allowing unencumbered access to 5105 28<sup>th</sup> St at all times.
- E. Landscaping shall be consistent with the approved landscape plan dated \_\_\_\_\_.

**Section IX. Land Splits**

This project involves the creation of two parcels; these parcels are shown on the approved site plan dated \_\_\_\_\_. Per the approval of the project, these land divisions are already considered approved by Cascade Township provided they are completed as shown on the approved site plan.

Nothing in this PUD shall prohibit the two (2) resulting parcels from being sold to separate purchasers.

**Section X. Signs.** The following signs shall be permitted for the project:

1. Two (2) freestanding signs, each with a maximum height of thirty (30) feet and a maximum sign area of ninety and one half (90.5) square feet in sign area. The nearest edge of the sign shall be no closer than twenty-five (25) feet to the road right-of-way.
2. The Developer agrees to comply with all other provisions of the Cascade Charter Township Sign Ordinance as amended.

**Section XI. Temporary Buildings.**

No structure of a temporary nature - trailer, tent, or construction shack shall be constructed, placed, or maintained within the Project, except accessory to and during construction of any building or infrastructure improvement.

## **Section XII. Utilities.**

- A. Sewer and Water – This project will be served by municipal water and municipal Sanitary Sewer.
- B. Stormwater Drainage - All proposed stormwater drainage facilities shall be reviewed and approved by the Township Engineer, the Kent County Drain Commissioner's office, and the Michigan Department of Environmental Quality (if it has jurisdiction) prior to the development of the Project. The Developer shall provide the Township Planning Department with copies of all correspondence and permits received from the Kent County Drain Commissioner and the Michigan Department of Environmental Quality regarding stormwater disposal.
- C. The Developer shall provide all necessary easements within the Project for telephone, electricity, gas, and cable television to the appropriate utility provider without cost. Said easements shall be recorded with the Kent County Register of Deeds and provided to each utility provider for their records.
- D. Sidewalk - The Developer shall construct a 7-foot wide, concrete sidewalk along the entirety of Northern Dr. The location of the sidewalk must be consistent with the approved site plan dated \_\_\_\_\_.
- E. Special Assessment District - Both properties in the PUD agree and consent by the acceptance of title to their respective property to the automatic creation of a special assessment district by the Township for all property owners whose parcels are benefitted by the special assessment district- to cover those reasonable costs related to the construction of a new, public road connecting Starr St to Northern Dr SE provided that the costs (i) are reasonable and allocated equitably and (ii) shall not include the costs to acquire any real property. All owners are hereby deemed to consent and agree to the creation of a special assessment district pursuant to Public Act 188 of 1954, as amended, as well as any and all other applicable Michigan statutes.

## **Section XIII. Cross Access**

- A. The Developer shall be responsible to provide and record cross-access easements for this project. Cross access shall be provided between the two, proposed sites and in the Northeast corner of the site to the parcel at 5105 28<sup>th</sup> St (currently the McDonalds).
- B. The access drives shall remain open at all times, including the winter months, and shall be free of snow and ice for clear passage. This PUD Ordinance will provide the legal means to allow cross access with these other parcels.

**Section XIV. Soil Erosion Control Requirements.**

The Developer shall submit a soil erosion control plan showing all temporary and permanent soil erosion control measures to be taken before, during, and after construction on the Project. This plan shall be reviewed and approved by the Township Engineer prior to commencing any excavation on the site. Developer shall comply with any and all licenses, approvals, or permits issued regarding soil erosion control requirements and measures.

**Section XV. Performance Guarantee.**

To ensure compliance with this Ordinance and any conditions herein, Cascade Township may require reasonable performance guarantees, as authorized under the Township Rural Zoning Enabling Act, to ensure completion of improvements such as, but not limited to, landscaping, drainage, lighting, roads, and utilities. The Township Board, Engineer, or Planning Department may require such guarantees at any time they deem necessary to ensure completion of the improvements. If a guarantee is required, the amount shall be based on an estimate of cost prepared by the Developer's Project Engineer and approved by the Township. Said guarantee(s) may include a bank letter of credit, loan holdback, or other such instrument. Guarantee(s) shall be partially released upon completion, inspection, and approval of required site improvements. Said release shall be issued by the Township within ten (10) days of a request to modify by the Developer.

**Section XVI. Consistency With Planned Unit Development (PUD) Standards.**

The rezoning to Planned Unit Development will result in a recognizable benefit to the ultimate users of the Project and to the community. Current and future residents will recognize the benefits of a planned development.

In relation to the underlying zoning (B2), the Township finds the Project will not result in a material increase in the need for public services, facilities, and utilities and will not place a material burden upon the subject property and the surrounding properties. The Project is not anticipated to cause undue impact to the stormwater drainage of the surrounding area. All stormwater and soil erosion control plans have been approved by the Township Engineer and the appropriate County and State agencies.

The Project has been determined by the Township to be compatible with the Comprehensive Plan of the Township and with the spirit and intent of the Planned Unit Development Chapter of the Zoning Ordinance. The Project has been determined to be a transition use, which is consistent with the Cascade Township Comprehensive Plan.

The Township finds the Project will not result in an unreasonable, negative, economic impact upon surrounding properties.

The Township finds the Project to have at least the same amount of green areas and usable open space than would typically be required by the Township Zoning Ordinance.

Finally, the Township recognizes the Project is currently under single ownership or control.

**Section XVII. Effective Date.**

This Ordinance shall become effective upon publication of the ordinance, or a summary thereof, in The Grand Rapids Press, a newspaper of general circulation within Cascade Charter Township.

The foregoing Ordinance was offered by Board Member \_\_\_\_\_, supported by Board Member \_\_\_\_\_. The roll call vote being as follows:

YEAS:  
NAYS:  
ABSENT:

\_\_\_\_\_  
Sue Slater  
Cascade Charter Township Clerk

**CERTIFICATION**

I hereby certify the foregoing to be a true copy of an Ordinance adopted at a Regular Meeting of the Cascade Charter Township Board on the \_\_\_<sup>th</sup> day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
Sue Slater  
Cascade Charter Township Clerk

**DEVELOPER'S CERTIFICATION**

"I, \_\_\_\_\_, have fully read the above PUD ordinance amendment, understand its provisions, and fully agree with all requirements and conditions contained in the same, on behalf of Restaurant Holdings, LLC and its assigns, successors, and transferees in and to the property involved."

**RESTAURANT HOLDINGS, LLC**, a  
Michigan limited liability company

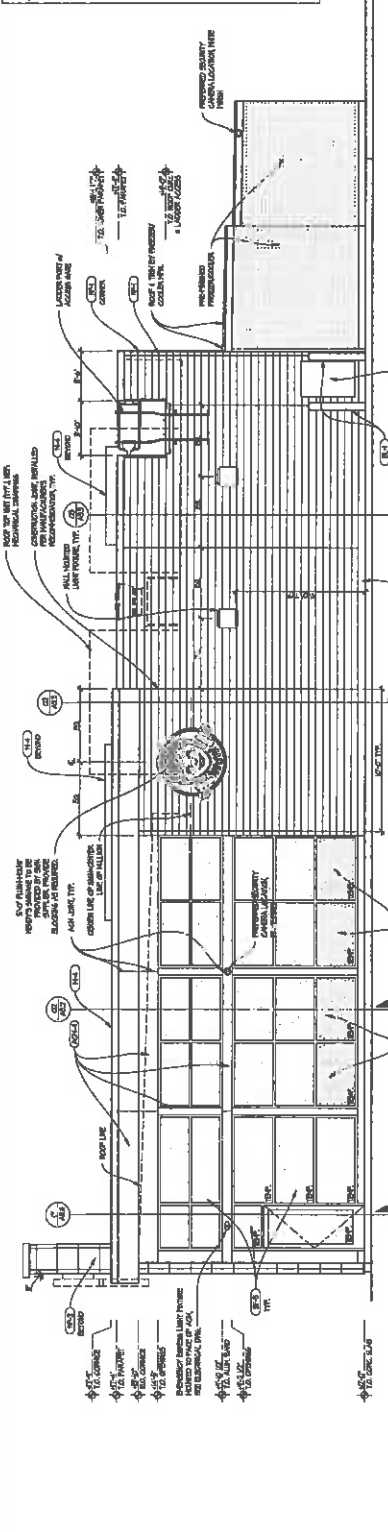
By: \_\_\_\_\_  
Gary A. Rose  
Its: Manager

**EXTERIOR FINISHES LEGEND**

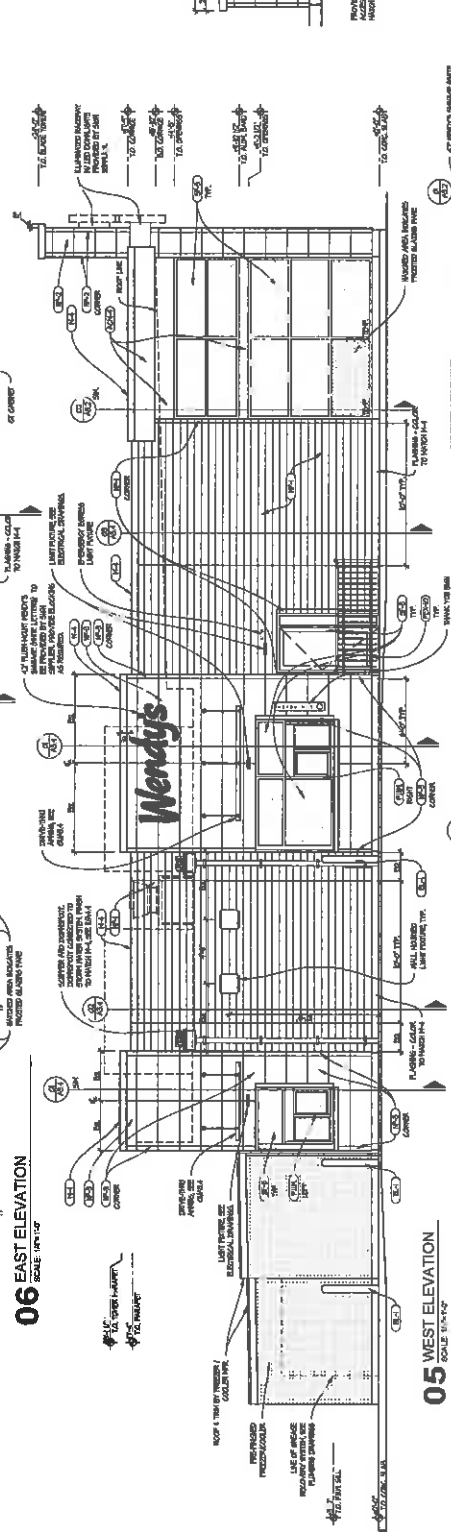
- 1. PLANK BELLINI BRICK
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- 3. BRICK (NORTH SIDE)
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**SIGNAGE CALCS**

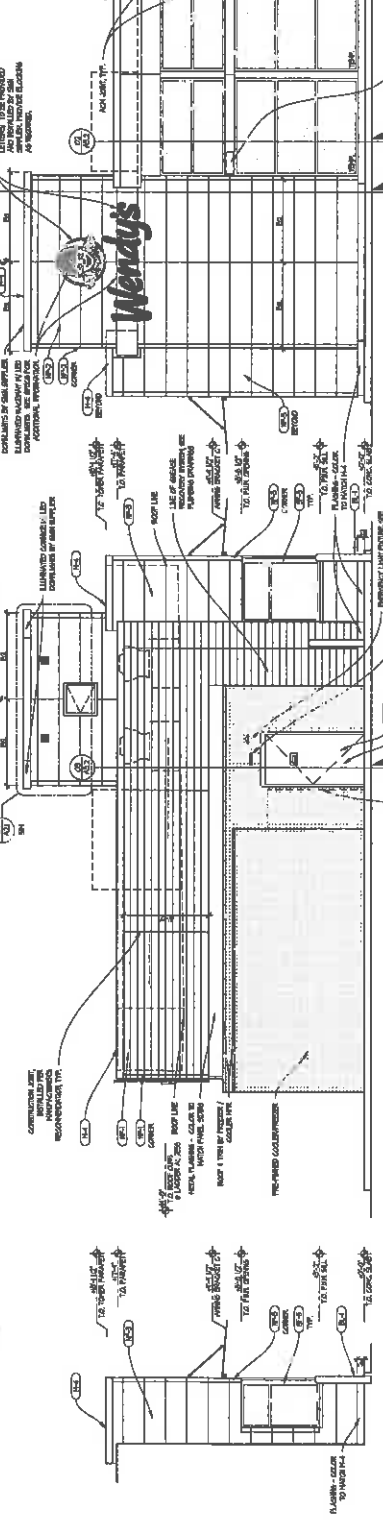
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WEST ELEVATION	345 SF
EAST ELEVATION	450 SF
SOUTH ELEVATION	450 SF
<b>TOTAL</b>	<b>1955 SF</b>



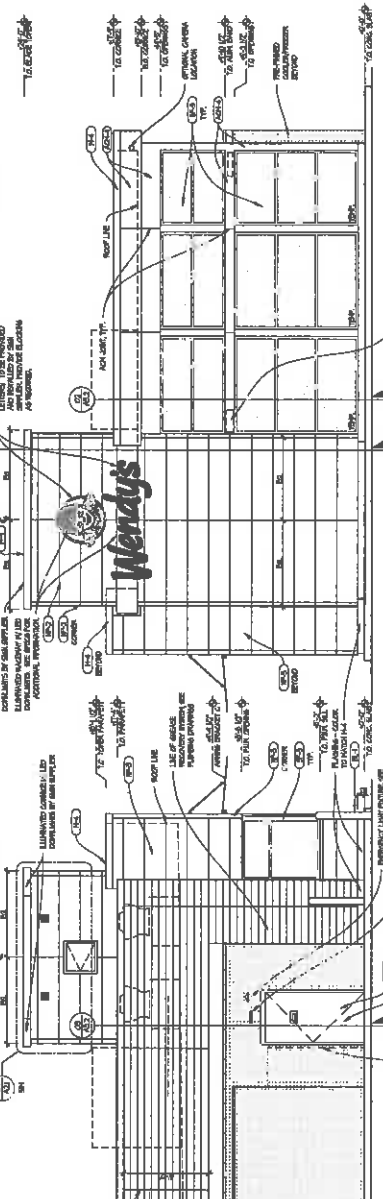
**06 EAST ELEVATION**  
SCALE: 1/4\"/>



**05 WEST ELEVATION**  
SCALE: 1/4\"/>



**02 NORTH ELEVATION**  
SCALE: 1/4\"/>



**01 SOUTH ELEVATION**  
SCALE: 1/4\"/>



**04 BLADE WALL DETAIL**  
SCALE: 1/4\"/>

DATE	12/15/2017
PROJECT	71089
CLIENT	WENDY'S
DESIGNER	WENDY'S
ARCHITECT	WENDY'S
ENGINEER	WENDY'S
CONTRACTOR	WENDY'S
DATE	12/15/2017
PROJECT	71089
CLIENT	WENDY'S
DESIGNER	WENDY'S
ARCHITECT	WENDY'S
ENGINEER	WENDY'S
CONTRACTOR	WENDY'S

**Wellin+Gomez Architects, Ltd.**  
201 E. Madison Street  
Chicago, IL 60605  
Tel: 312-424-4111  
www.wgarchitects.com

**Wendy's**  
5038 28TH STREET  
STORE #1219  
GRAND RAPIDS, MI 49512

**EXTERIOR ELEVATIONS**

**A2.1**

SITE NUMBER: 0110  
 DATE: 01/15/2010  
 PROJECT NAME: GRAND RAPIDS, MI 49512  
 CLIENT: WENDY'S  
 PROJECT TYPE: RESTAURANT  
 CLASSIFICATION: COMMERCIAL  
 DRAWING NUMBER: 2010-01-01  
 DATE: 01/15/2010

**Paradigm**  
 ARCHITECTS  
 2519 S. GRAND RAPIDS, MI 49512  
 PHONE: 616-963-7500  
 FAX: 616-963-7507  
 WWW.PARADIGMARCHITECTS.COM

**Wendy's**  
 5039 28th STREET, SE  
 GRAND RAPIDS, MI 49512

PROJECT: 1. PROJECT SUBMITTAL  
 2. PERMITS  
 3. CONSTRUCTION  
 4. AS-BUILT

SHEET: 1 OF 1  
 DATE: 01/15/2010  
 DRAWN BY: J. BROWN  
 CHECKED BY: M. SMITH

**C2.1**  
 CIVIL LAYOUT PLAN

**GENERAL NOTES:**  
 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.  
 2. ALL UTILITIES SHALL BE LOCATED AND DEPTH NOTED PRIOR TO CONSTRUCTION.  
 3. ALL EXISTING UTILITIES SHALL BE PROTECTED AND NOT TO BE MOVED OR DELETED UNLESS OTHERWISE NOTED.  
 4. ALL EXISTING UTILITIES SHALL BE DELETED UNLESS OTHERWISE NOTED.  
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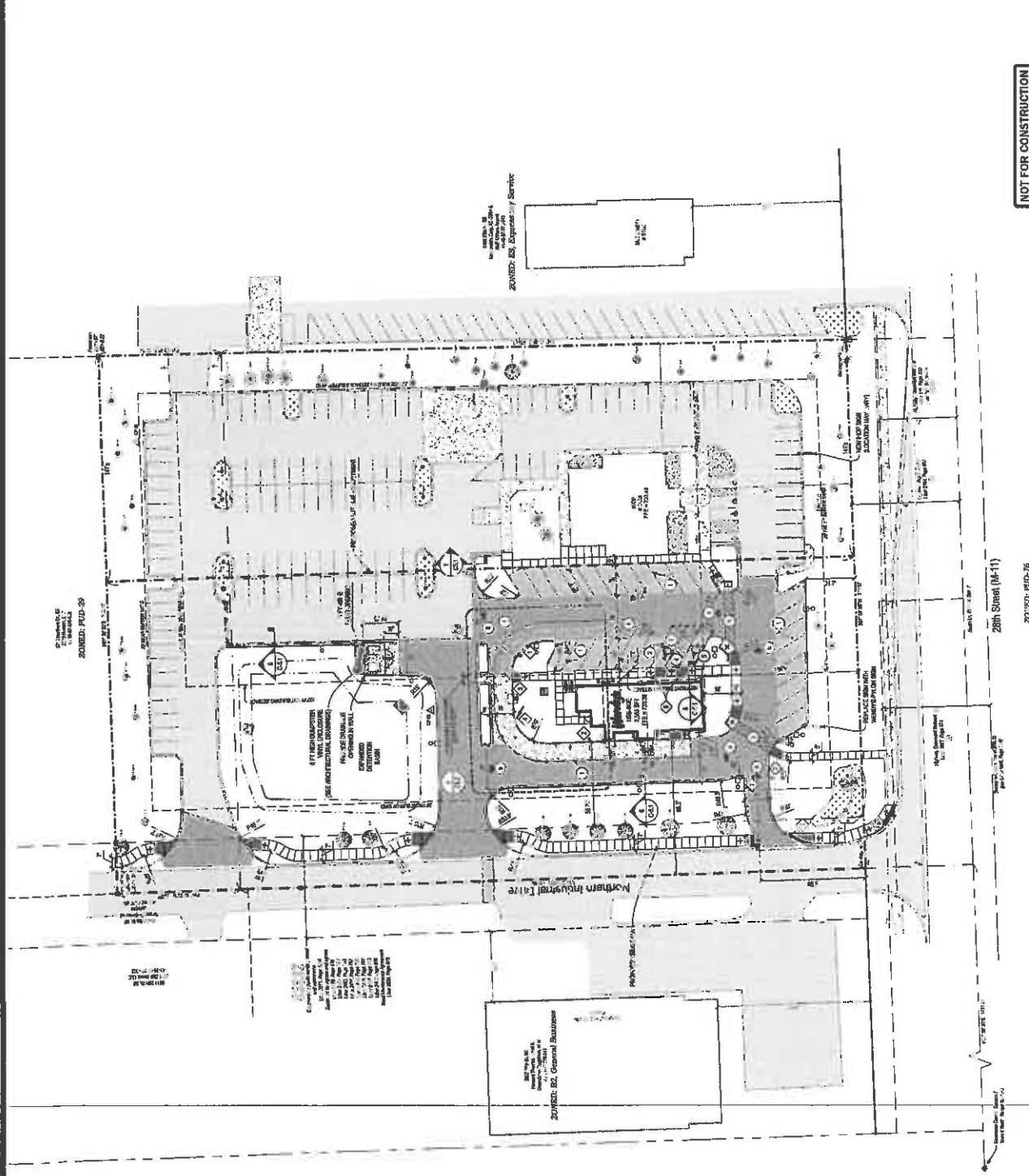
**DEVELOPMENT REFERENCE:**  
 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.  
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**STRENGTH SPECIFICATIONS:**  
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**PERMITS:**  
 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.  
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**PROPOSED LEGEND:**  
 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.  
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**NOT FOR CONSTRUCTION**



**NOT FOR CONSTRUCTION**

2010-01-01



 Wendy's

WELCOME TO  
REAL  
FRESH  
WELCOME TO  
WENDY'S  
DELIGHT







November 8, 2017  
Project No. 170168

Mr. Steve Peterson  
Cascade Charter Township  
2865 Thornhills Avenue, SE  
Grand Rapids, MI 49546-7192

Re: Wendy's  
Site Plan Review

Dear Steve:

We have reviewed the site plan for Wendy's, located at 5039 - 28th Street, prepared by Paradigm Design, Inc. The current site plan and basis of this review is dated October 31, 2017. The proposed project is the construction of a new Wendy's restaurant and associated site improvements. The 3.5-acre site contains two parcels and was originally developed in 2002. The existing site contains two connected restaurants, parking lot and a stormwater detention basin. The proposed project will demolish one of the existing restaurants and construct a new stand-alone Wendy's restaurant. The site is located in the Plaster Creek watershed, sub-drainage district Cascade West.

## Stormwater and Drainage

### Flood Control

The proposed project is a new development, so all improvements shall comply with the requirements of the Cascade Charter Township (Township) Stormwater Ordinance (SWO). The site is located in Stormwater Management Zone B, which requires detention of the 25-year storm event and a direct connection (overland or underground) of the 100-year storm event, or detention of the 100-year storm event. The SWO also requires the first 0.5-inch of stormwater runoff be detained and released over a 24-hour period.

Stormwater runoff from the existing site is collected by a series of catch basins and discharged to a stormwater detention basin located at the northwest corner of the site constructed with the 2002 development. The detention basin drains to the Kent County Drain Commissioner (KCDC) Patterson Drain, a 48-inch storm sewer located along the north side of 28th Street. The Patterson Drain ultimately discharges to a County regional detention basin. The applicant contacted the KCDC to verify if this connection to the county drain is acceptable. Their response was this particular property was not included in the County's regional detention basin's drainage area. Therefore onsite stormwater detention, in accordance with Cascade Township requirements, would be required.

The applicant provide stormwater calculations that showed the existing onsite detention basin was undersized based on the current SWO. The proposed stormwater management design is to enlarge the existing detention basin, and install a new outlet control device to meet the requirements of the SWO.

### Water Quality Control

The SWO requires the first 0.5 inch of stormwater runoff be detained and released over a 24-hour period. The applicant is proposing to install a new outlet control device that will restrict the release of the water quality control volume in accordance with the SWO. This requirement has been satisfied.

Z:\2017\170168\WORK\CORR\LT\_PETERSON\_WENDYS\_2017\_1108.DOCX

1515 Arborvitae Drive, SE  
Grand Rapids, Michigan 49546

616.575.3624  
www.ftc&h.com

Fishbeck, Thompson, Carr & Huber, Inc.  
engineers | scientists | architects | constructors



### **Stormwater Runoff**

The applicant provided stormwater calculations to size the onsite detention basin. All stormwater runoff from the impervious areas of the site will discharge to the detention basin. Therefore, the site will not see an increase in rate of stormwater leaving the site.

### **Drainage Plan**

The applicant has submitted drawings, calculations, and additional documentation as required in the SWO Section 2.03, Drainage Plan. Please refer to the included checklist for items and comments on each item. Please note a maintenance agreement is required before construction begins. The agreement should be submitted to the Township for review. The maintenance agreement and plan should include at a minimum, cleaning of catch basin sumps, sediment and debris removal from the detention basin, and landscape maintenance of the detention basin to maintain the design volume and ensure the system is operating as it was designed.

### **Utilities**

The proposed project includes a new 6-inch sanitary sewer service and 1-1/2-inch water service. No new public water or sanitary sewer main extensions are proposed for the site.

### **Soil Erosion and Sedimentation Control**

Soil Erosion and Sedimentation Control (SESC) measures are provided on the plan drawings. The applicant has included silt fence along the limits of clearing and grading, and silt sacks in catch basins. SESC falls under the review and approval of the KCRC, and a permit is required before construction can begin. The SESC measures indicated on the drawings appear appropriate, given the expected work.

### **Summary**

The proposed stormwater design meets the Township SWO requirements for new developments. The applicant will need to apply for and obtain a number of permits (SESC, water and sewer from the City) prior to beginning construction. We recommend approval of the site plan from an engineering standpoint.

If you have any questions or require additional information, please contact me at 616.464.3786 or [nrtorrey@ftch.com](mailto:nrtorrey@ftch.com).

Sincerely,

FISHBECK, THOMPSON, CARR & HUBER, INC.

A handwritten signature in black ink, appearing to read 'Nathan R. Torrey', is positioned below the company name.

Nathan R. Torrey, PE

jc2

Attachment

By email

cc: Michael L. Berrevoets, PE – FTCH



**Cascade Charter Township**

Storm Water Ordinance, Ordinance 7 of 2002, as amended by Ordinance No. 2 of 2008, 5/14/2008

*Reviewing Engineer Comments are Italicized*

*OK – Received and Acceptable*

*NA – Not Applicable*

*NR – Not Received, Needs Follow-up, See Comments*

**Wendy's**

**Drainage Plan Checklist**

- OK (1) Location of the development site and water bodies that will receive storm water runoff  
*All stormwater runoff from the site will be discharged to an existing detention basin located onsite. The detention basin will be enlarged to meet the requirements of the current Township Stormwater Ordinance.*
- OK (2) Existing and proposed topography of the development site, including the alignment and boundary of the natural drainage courses, with contours having a maximum interval of one foot (using USGS datum). The information shall be superimposed on the pertinent Kent County soil map  
*Existing and proposed contours have been provided.*
- OK (3) Development tributary area to each point of discharge from the development  
*Stormwater calculations and tributary areas were provided by the applicant.*
- OK (4) Calculations for the final peak discharge rates  
*Applicant provided calculations in design of the onsite storm sewer system and detention basin.*
- OK (5) Calculations for any facility or structure size and configuration  
*Stormwater runoff calculations were provided by the applicant.*
- OK (6) Drawing showing all proposed storm water runoff facilities with existing and final grades  
*The applicant provided a utility plan showing all proposed stormwater runoff facilities.*
- OK (7) The sizes and locations of upstream and downstream culverts serving the major drainage routes flowing into and out of the development site. Any significant off-site and on-site drainage outlet restrictions other than culverts should be noted on the drainage map  
*The drainage map did not indicate any major offsite drainage routes flowing into the site.*
- NR (8) An implementation plan for construction and inspection of all storm water runoff facilities necessary to the overall drainage plan, including a schedule of the estimated dates of completing construction of the storm water runoff facilities shown on the plan and an identification of the proposed inspection procedures to ensure that the storm water runoff facilities are constructed in accordance with the approved drainage plan  
*The applicant indicated this was a 2018 construction project and a schedule has not been established yet.*
- OK (9) Plan to ensure the effective control of construction site storm water runoff and sediment track-out onto roadways  
*The SESC measures shown on the plan appear appropriate given the expected work. SESC falls under the review and approval of the KCRC and a permit is needed before construction can begin.*



- OK (10) Drawings, profiles, and specifications for the construction of the storm water runoff facilities reasonably necessary to ensure that storm water runoff will be drained, stored, or otherwise controlled in accordance with this ordinance  
*The applicant provided calculations and design details for construction of the onsite storm sewer system.*
- NR (11) Maintenance agreement, in form and substance acceptable to the Township, for ensuring maintenance of any privately owned storm water runoff facilities. The maintenance agreement shall include the developer's written commitment to provide routine, emergency, and long-term maintenance of the facilities and, in the event that the facilities are not maintained in accordance with the approved drainage plan, the agreement shall authorize the Township to maintain any on-site storm water runoff facility as reasonably necessary, at the developer's expense  
*Maintenance agreement was not provided and is required.*
- OK (12) Name of the engineering firm and the registered professional engineer that designed the drainage plan and that will inspect final construction of the storm water runoff facilities
- NA (13) All design information must be compatible for conversion to Grand Valley Regional Geographic Information System (REGIS)  
*This is a privately owned system and will not be uploaded to REGIS.*
- OK (14) Other information necessary for the Township to verify that the drainage plan complies with the Township's design and performance standards for drains and storm water management systems

**RESTAURANT HOLDINGS, LLC**

**45 Ottawa Ave SW**

**Suite #600**

**Grand Rapids, MI 49503**

**January 4, 2018**

**To the Cascade Township Planning Commission:**

**Restaurant Holdings LLC ("Applicant") is willing to participate in a special assessment district associated with the dedication of Northern Drive SE and Starr Street SE to the public provided that:**

- (1) the costs shall be reasonable and allocated equitably, and**
- (2) the costs shall not include the cost to acquire any real property.**

**Sincerely,**



**Doug Poland**

**Director of Real Estate**

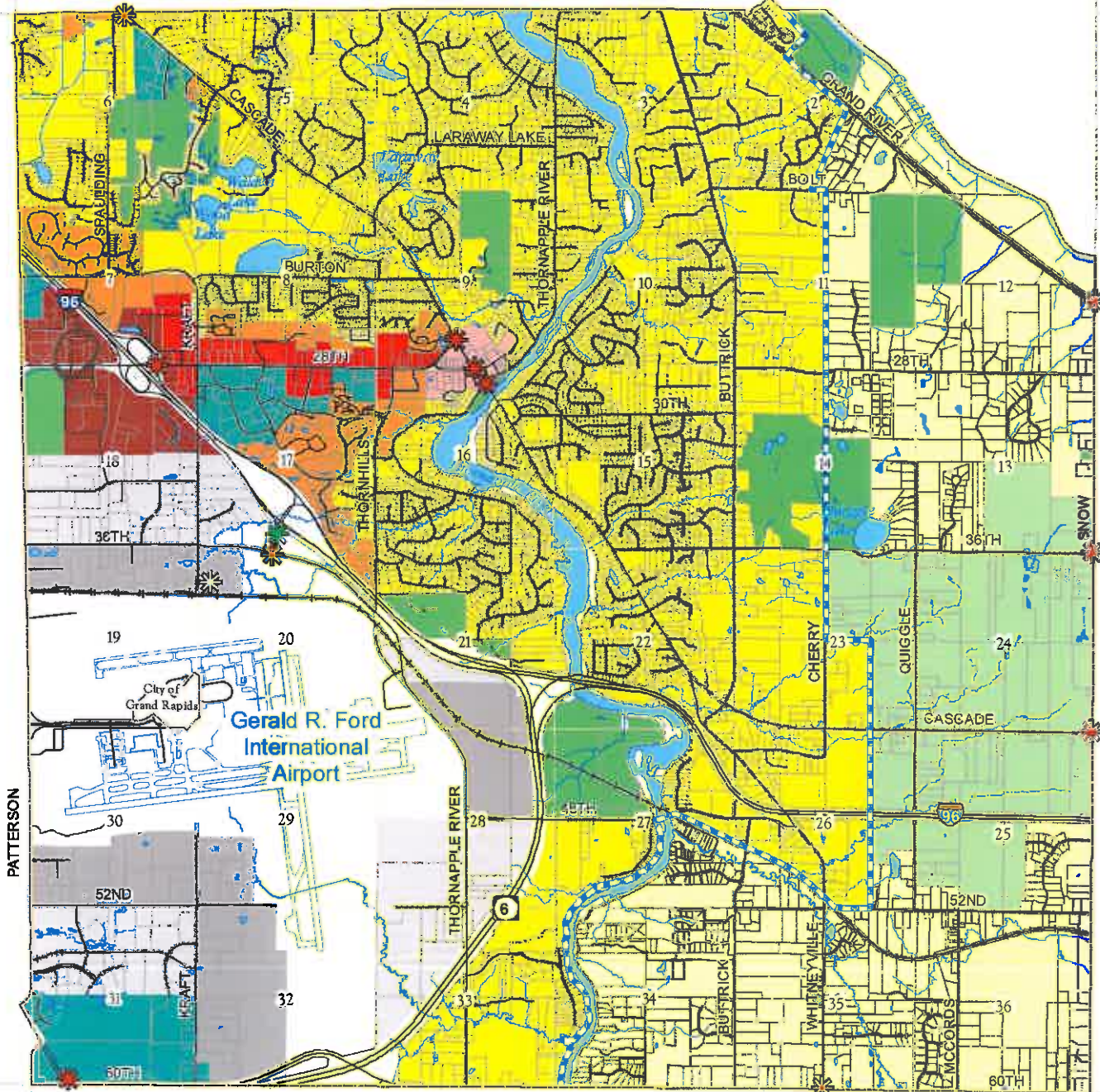
**Meritage Hospitality Group, Inc.**

Ada Twp

Lowell Twp

Caledonia Twp

City of Kalamazoo



# Cascade Charter Township

Kent County, Michigan

## Map 15 Future Land Use

### Legend

- Gateway Feature
- Park 'n' Ride
- Rail Station
- Utility Service Area
- Farmland Preservation
- Rural Residential
- Suburban Residential
- Community Residential
- Village Commercial
- General Commercial
- Highway Commercial
- Mixed Use
- Heavy Industrial
- Light Industrial
- Community Facility / Golf Course



**2008**

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**Williams & Works**  
 ENGINEERS, PLANNERS, ARCHITECTS

414.224.4300 phone • 414.224.1881 fax  
 347 Ocean Avenue NW • Grand Rapids, MI 49503

April 22, 2009

**Location:** The general commercial land use designation includes properties fronting 28<sup>th</sup> street from Cascade Village west to the Township boundary.

**Desired Uses:** Uses include retail, office, personal services, professional services, automobile repair, convenience stores with or without fuel pumps, drive-through establishments, eating and drinking establishments, fitness centers, financial institutions, automobile sales, and other similar uses. Water and sewer must be available for development in this land use category. Additionally, any natural features should be preserved and protected in projects located in the general commercial land use area. The Township hopes that the general commercial area is served by mass transit in the future.



#### **HIGHWAY COMMERCIAL**

**Description:** The highway commercial land use category calls for more intense land uses in terms of traffic generation and building height. This use would include hotels, eating and drinking establishments, and convenience shopping capturing consumers from the region. Multi-story development, up to 5-stories, may be permitted based on locational factors. Additional height in excess of 5-stories may be considered in areas with elevation differences along the highway, while less height may be appropriate in areas where the highway commercial land use abuts residential uses. Maximum floor area may also be restricted to encourage taller buildings.

Careful planning and design should occur with any new mixed use or large-scale commercial projects to ensure that traffic safety and on-site traffic flow is considered, appropriate access management techniques have been incorporated into site planning and building height would not interfere with Federal Aviation Administration requirements or other height requirements of the Gerald R. Ford International Airport. Minimum lot area requirements could be reduced for projects that incorporate certain green/eco-friendly building technologies at the time of site plan review, or provide a minimum amount of green space, such as 35%. Architectural standards are appropriate to ensure buildings over 3 stories incorporate step-backs, vertical and horizontal design elements, and varied building materials to minimize bulk and massing.

**Location:** This use is located west and east of the I-96 interchange along 28<sup>th</sup> street.

**Desired Uses:** Desired uses include hotels, eating and drinking establishments, convenience shopping, fitness centers, and offices. Water and sewer must be available for development in this land use

category. The Township hopes that the highway commercial area is served by mass transit in the future.

#### **MIXED USE**

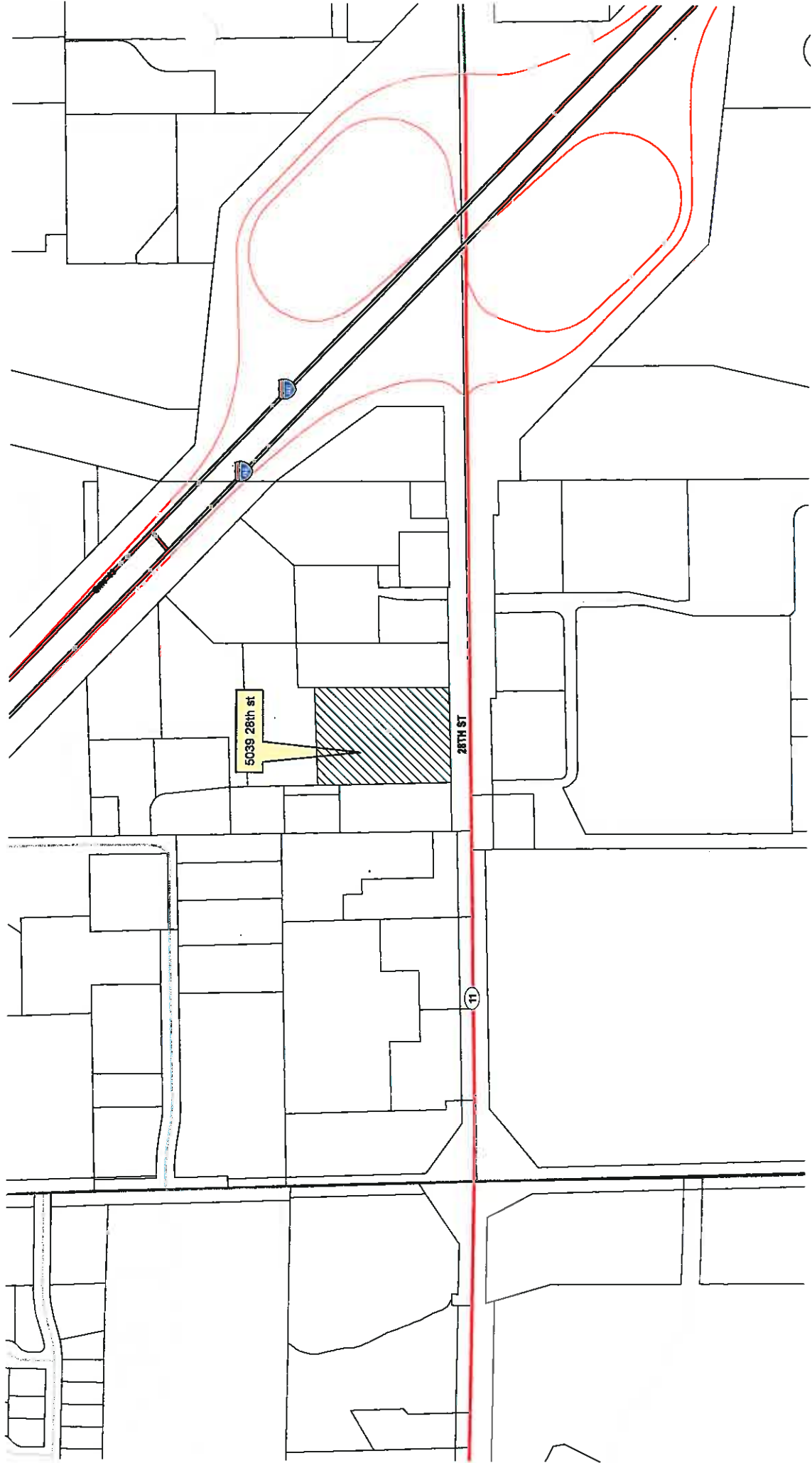
**Description and Desired Uses:** The mixed use land use is intended to provide for offices, light industrial, townhome and other types of attached residential development, and retail/commercial uses. The intent is to allow for uses in a master-planned project, giving a greater potential for walkable neighborhoods. Mixed use residential areas are especially desirable where future mass transportation can serve the area.

**Location:** The mixed use land use category is planned for the northern portion of Centennial Park, the southern portion of Meadowbrooke and along the already developed office park on Cascade Road.

**Densities:** Within the mixed use category, residential densities would be 6-8 dwelling units to the acre. Density bonuses may be available for development that incorporates certain green/eco-friendly building technologies at the time of site plan review and approval. Building heights would be the lesser of 40' or 3 stories where surrounding uses and buildings are of comparable heights; however, along Cascade Road where the mixed use area is already developed, existing building heights would remain unchanged.

#### **HEAVY INDUSTRIAL**

**Description and Desired Uses:** This land use designation is intended to provide employment for area residents, manufacture goods and provide services to meet the needs of the larger West Michigan Region. Facilities will be developed with appropriate utility and transportation connections and in harmony with the area's natural features. Industrial uses may include warehousing, manufacturing and assembly, mini-storage, contractor's offices and yards, and shipping facilities. In the vicinity of the airport, industrial land uses should be compatible with the airport and aviation requirements. The Township supports industrial uses near the airport having direct access to the airport property to facilitate greater interconnectedness, growth of transportation-related industry, and limit off-site vehicular movement/trips. Truck traffic leaving industrial land uses will be directed efficiently to regional arterials without traversing residential areas. Landscape credits, credits for energy efficient design, or other types of credits may be offered that may reduce the current front yard setback requirements, landscaping requirements, and/or lot area requirements.



**STAFF REPORT**

TO: Cascade Charter Township Board  
FROM: Steve Peterson, Community Development Director  
REPORT DATE: March 7, 2018  
MEETING DATE: March 14, 2018  
CASE: #17-3424/2768 Orange Ave

**GENERAL INFORMATION**

- A. **Applicant:** Bentineau Residential LLC  
825 Parchment Dr Suite 400  
Grand Rapids MI 49546
- B.
- C. **Status of Applicant:** Developer
- D. **General Location:** Southeast corner of Orange and Peace St.
- E. **Requested Action:** Rezone the property to R2 from B1. The applicant is offering a conditional rezoning for three new homes.
- F. **Existing Zoning on Subject Parcels:** R2 residential.
- G. **Zoning on Adjoining Parcels:**  
N – R1  
S – R1  
E – R1  
W – Cascade Christian Church PUD
- H. **Parcel Size:** Approximately .75 acres
- I. **Existing Land Use on Subject Parcel:** Vacant
- J. **Adjacent Area Land Uses:**  
North - Consumers Power substation/Pet Cemetery  
East - Residential  
South - Residential  
West - Church

**STAFF ANALYSIS**

- A. The applicant is requesting a conditional rezone from R2 to B1.
- B. The applicant must offer the contract or conditions. The township cannot place additional conditions on the rezone. This is not a PUD. We are reviewing it as a straight rezoning request with conditions the applicant has offered.
- C. The advantage to the township for this process is to know what we are getting when the property is rezoned. This is the only way to do this because the property is not eligible for a PUD rezoning due to the fact that it is less than 2 acres.
- D. The rezoning would allow three single family detached homes. The homes would be about 3,000 sq ft of finished living space and an attached 2 car garage. Very typical in terms of size for Cascade.
- E. The property is zoned R2, but is identified in the Master plan as B1.
- F. They have supplied us with a site plan showing the three homes. They have drawn the plans to meet the B1 zoning setback requirements.
- G. The B1 zone allows for residential uses up to 9 units per acre. The property is about .75 acres. That equates to about 4 units per acre for this project.
- H. The property is on the corner of Orange Ave and Peace St. Orange Ave is a public street until Peace street at which point it changes to a private road.
- I. Anytime we have additional lots added to a private street we need to evaluate the private road. The staff evaluation of the road indicates that the road itself meets our standards.
- J. We do not have driveway spacing standards for residential homes, the homes are coming off from the private road section of Orange Ave.
- K. According to State law a local unit of government cannot require a landowner to offer conditions as a requirement for rezoning. Unless the conditions are offered by the applicant the rezoning should be reviewed on its appropriateness and compatibility with its surrounding land uses and the future land use plan.
- L. The applicant has offered a contract for the rezoning which has been reviewed by our attorney and has been recommended for approval by the Planning commission.
- M. According to Section 23.05 (2) of the Zoning Ordinance, the Planning Commission must consider the following whenever making a recommendation for a rezoning.

<i>Factors</i>	<i>Comments</i>
Whether there exists an error or ambiguity which must be corrected	There is no error or ambiguity to be corrected.
Whether there exists changed or changing conditions	The property has been identified in the Master plan as

which make approval of a proposed Zoning Ordinance amendment or rezoning appropriate	Village Commercial.
The impact of a proposed change on the intent of this Zoning Ordinance	The proposed change would not have a negative impact on the intent of the Zoning Ordinance
Whether a proposed land use change is consistent with the goals, objectives, policies, and intent of the Cascade Township General Development Plan	The Master plan designation of this area as Village Commercial and the redevelopment of 3 new homes is consistent with the B1 zoning category.
Whether a proposed land use change meets or exceeds all performance and location standards set forth for the proposed use	The property requested to be rezoned would meet the requirements of the B1 zone.
Whether a proposed land use change is consistent with the densities, intensities, and general uses set forth in the Cascade Township General Development Plan	The land use would meet the density requirements of the Comprehensive plan and be consistent with the zoning and use of the area.
Whether a proposed land use change will protect, conserve or preserve environmentally critical areas and natural resources	The rezoning to B1 would be consistent with our plan and any land use change would have to meet the same requirements that are in place now.
Whether a proposed land use change will be compatible with existing or planned uses and not cause damage, hazard, nuisance, or other detriment to persons or property	The proposed rezoning is compatible with the surrounding uses.
Whether the location of a proposed land use change places an undue burden upon existing transportation or other services and facilities and will be served by streets with the capacity to carry traffic generated by the development	The proposed land use would not place an undue burden on the roads.
The testimony of any applicant.	
The recommendation of Township Staff;	Approve the request
The testimony of the public;	
Whether a requested use will be in compliance with all applicable General Provisions and Special Use Regulations pertaining to the use, as set forth elsewhere in this Ordinance; and	The proposed single family homes are in compliance with other Township regulations.
Whether a change is proposed in order to rectify errors on the Official Zoning Map.	This is not being done to rectify any errors

**STAFF RECOMMENDATION**

Staff recommends Approval of the contract rezone request.

Attachments:      Application  
                         Site plan  
                         Conditional rezoning information article from M.A.P.  
                         Master plan excerpts and Map  
                         Rezoning contract offered by the applicant

## CONDITIONAL REZONING AGREEMENT

THIS CONDITIONAL REZONING AGREEMENT (“CRA” or “Agreement”) is made this \_\_\_\_\_ day of \_\_\_\_\_, 2018 by and between Beniteau Residential, LLC, a Michigan limited liability company, whose address is 825 Parchment Dr SE, Suite 400, Grand Rapids, Michigan (“**Owner**”), and CASCADE CHARTER TOWNSHIP, a Michigan municipal corporation, whose address is 2865 Thornhills SE, Grand Rapids, Michigan (the “**Township**”).

### RECITALS

- A. Owner is under contract and is anticipated to own a parcel of real property in the Township, commonly known as 2768 Orange Avenue SE, Grand Rapids, MI, and legally described on the attached Exhibit A (the “**Property**”).
- B. Owner intends to develop the Property with three residential homes in accordance with the site layout plan attached as Exhibit B, and Owner desires to rezone the Property from R2 (Residential) to B1 (Village Commercial).
- C. Owner has submitted the site layout plan attached as Exhibit B to the Township, and the site layout plan and proposed use have been reviewed and approved by the Township Planning Commission, which has recommended that the Township Board rezone the property from R2 (Residential) to B1 (Village Commercial).
- D. In exchange for the Township rezoning the Property to B1, Owner desires to voluntarily impose legally enforceable conditions and restrictions on the use of the Property.
- E. In order to memorialize the legally enforceable conditions and restrictions on the Property and the parties’ mutual understandings as part of the rezoning of the Property to B1, the parties desire to enter into this CRA.

NOW, THEREFORE, for good and valuable consideration including, but not limited to, the covenants and pledges contained herein, the sufficiency of which is acknowledged, the parties agree as follows:

## AGREEMENT

Rezoning to B1. In conjunction with the Township's approval for rezoning the Property from R2 to B1 and the Township's approval of the site plan, density, setbacks, and proposed use of the Property under the B1 designation, Owner agrees to use the Property in compliance with all of the requirements regulating use and development set forth in the Cascade Charter Township Zoning Ordinance (the "**Ordinance**") for B1, and the parties further agree as follows:

1. Upon rezoning of the Property to B1, Owner's use and development of the Property will be restricted to no more than three (3) single-family detached residential homes. The homes shall have the setbacks and density as shown on Exhibit B. The Township represents and agrees that that, upon rezoning the Property to B1, the setbacks, use, and density depicted on the site layout plan attached as Exhibit B comply with the Ordinance.
2. Except as modified by the Agreement, all other provisions of the Township's Zoning Ordinance shall remain in full force and effect and a violation of this Agreement shall constitute a violation of the Township's Zoning Ordinance.
3. By entering into this agreement, the Township has exercised its reasonable discretion and, by entering into the agreement, the Township takes no position on whether it will grant or deny any other conditional zoning requests pursuant to the Act.
4. It is acknowledged and agreed this Agreement and the conditions presented have been voluntarily offered to the Township and that the Township has not required this Agreement in order to consider a rezoning.
5. This Agreement has been made in accordance with MCL 125.3405 (the "Act").
6. This Agreement shall be executed in recordable form and shall be recorded by the Township with the Kent County Register of Deeds and shall run with the Property. Owner shall provide a copy of this Agreement to any prospective future owner or tenant of the Property prior to the closing of a sale or lease of the Property.
7. This Agreement shall only be amended by mutual written agreement of the parties.

<remainder of page intentionally blank >

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

Beniteau Residential, LLC

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

Marcel Burgler

Its: Manager

STATE OF MICHIGAN )

) ss.

COUNTY OF \_\_\_\_\_ )

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 2018, by Marcel Burgler, Manager of Beniteau Residential, LLC, a Michigan limited liability company, on behalf of said limited company.

\_\_\_\_\_

Notary Public

County of \_\_\_\_\_, State of Michigan

My Commission Expires: \_\_\_\_\_

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

CASCADE CHARTER TOWNSHIP

ATTEST \_\_\_\_\_

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

Its: \_\_\_\_\_

STATE OF MICHIGAN )

) ss.

COUNTY OF \_\_\_\_\_ )

The foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 2018, by \_\_\_\_\_, the \_\_\_\_\_ of Cascade Charter Township, on behalf of said township.

\_\_\_\_\_

Notary Public

County of \_\_\_\_\_, State of Michigan

My Commission Expires: \_\_\_\_\_

**PREPARED BY AND RETURN TO:**

Thomas M. Amon  
WARNER NORCROSS & JUDD LLP  
900 Fifth Third Center  
111 Lyon Street, NW  
Grand Rapids, Michigan 49503-2487  
Telephone: (616) 752-2727  
16676808-1

**EXHIBIT A**  
**Legal Description**

Land Situated in the Township of Cascade, Kent County, Michigan, described as:

Lots 1, 2 and 3, Block 1, G.S. Richardson's Plat, according to the Plat thereof, as recorded in Liber 3 of Plats, Page 11.

Address: 2768 Orange Ave. SE, Grand Rapids, MI  
Tax ID No. 41-19-09-454-001

The address and tax ID are solely for informational purposes, and if inconsistent in any way with the legal description, the legal description shall control.

**EXHIBIT B**  
**Site Layout Plan**  
(On Next Page)







www.811.com  
 800.3.1178  
**GRAND RAVES**  
 1800 N. 22nd St.  
 Grand Rapids, MI 49503

**NEDEVELD**  
 www.nederveld.com  
 800.3.1178  
**GRAND RAVES**  
 1800 N. 22nd St.  
 Grand Rapids, MI 49503

**PREPARED FOR:**  
 Barstead Residential, LLC  
 1701 1st Street SW  
 Grand Rapids, MI 49503

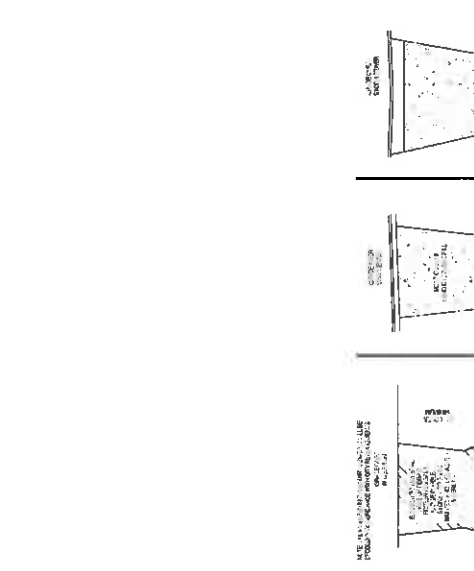
**REVISIONS:**

NO.	DATE	BY	DESCRIPTION
1	04/11/17	JK	ISSUE FOR PERMIT
2	04/11/17	JK	ISSUE FOR PERMIT
3	04/11/17	JK	ISSUE FOR PERMIT
4	04/11/17	JK	ISSUE FOR PERMIT
5	04/11/17	JK	ISSUE FOR PERMIT


**2768 ORANGE CT, SE**  
**Details & Specifications**  
 276 Orange Ave.  
 PART OF THE SOUTHVIEW HOISTING & REPAIRING  
 CASCO DEVELOPMENT, KENT COUNTY, MICHIGAN

**STAMP:**

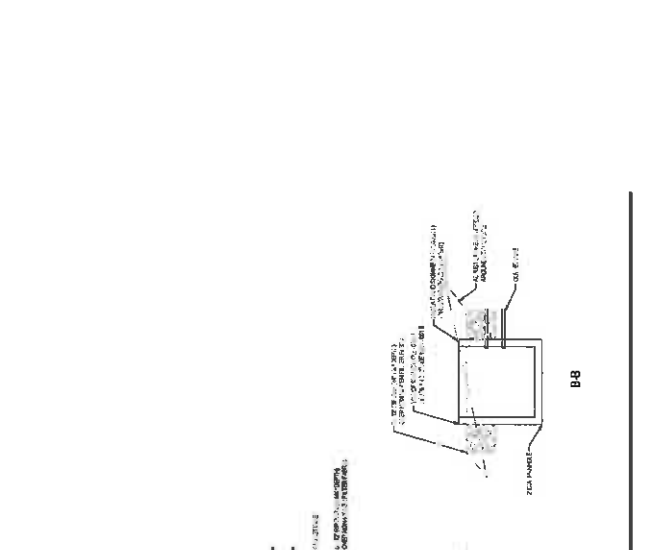
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**SHEET NO:** **C-500**



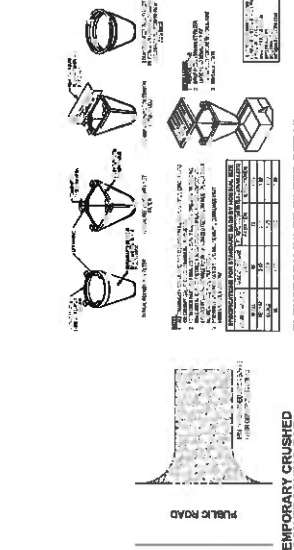
**TYPICAL UTILITY TRENCH AND BACKFILL DETAILS**

**CONSTRUCTION NOTES**

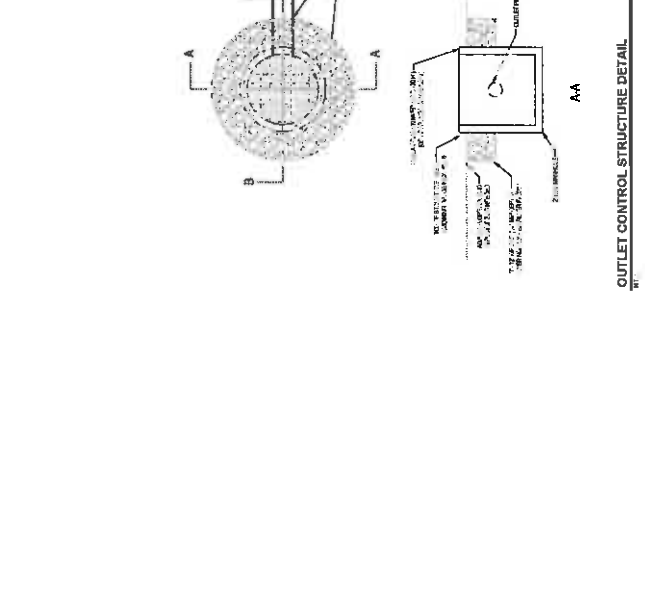
1. ALL TRENCHES SHALL BE EXCAVATED TO THE PROPOSED FINISH GRADE.
2. ALL TRENCHES SHALL BE EXCAVATED TO THE PROPOSED FINISH GRADE.
3. ALL TRENCHES SHALL BE EXCAVATED TO THE PROPOSED FINISH GRADE.
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18. ALL TRENCHES SHALL BE EXCAVATED TO THE PROPOSED FINISH GRADE.
19. ALL TRENCHES SHALL BE EXCAVATED TO THE PROPOSED FINISH GRADE.
20. ALL TRENCHES SHALL BE EXCAVATED TO THE PROPOSED FINISH GRADE.



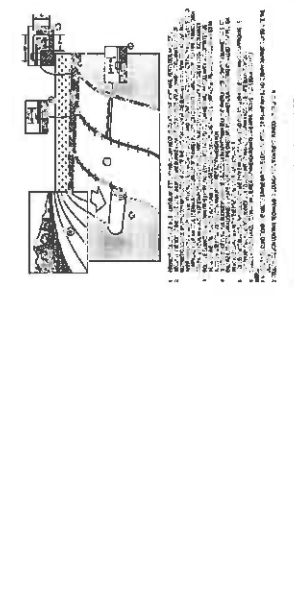
**OUTLET CONTROL STRUCTURE DETAIL**



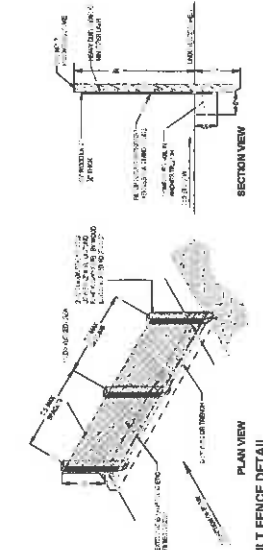
**FLEXSTORM INLET FILTER DETAIL**



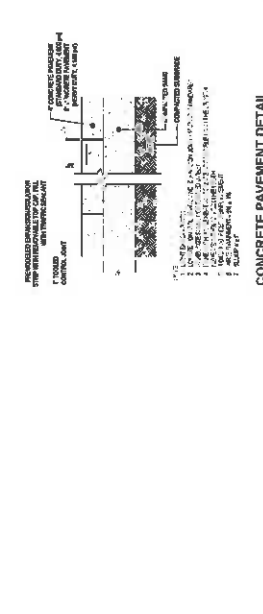
**CONCRETE PAVEMENT DETAIL**



**EROSION CONTROL BLANKET**



**SILT FENCE DETAIL**



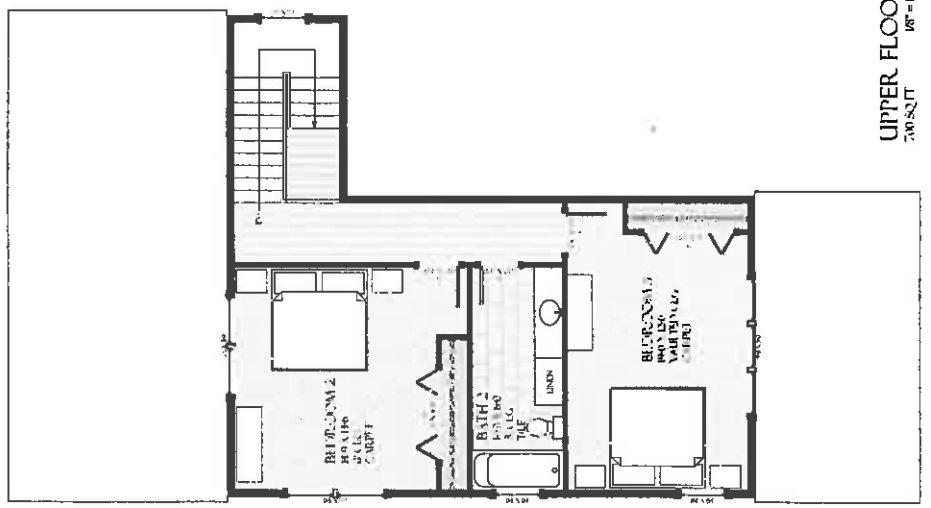
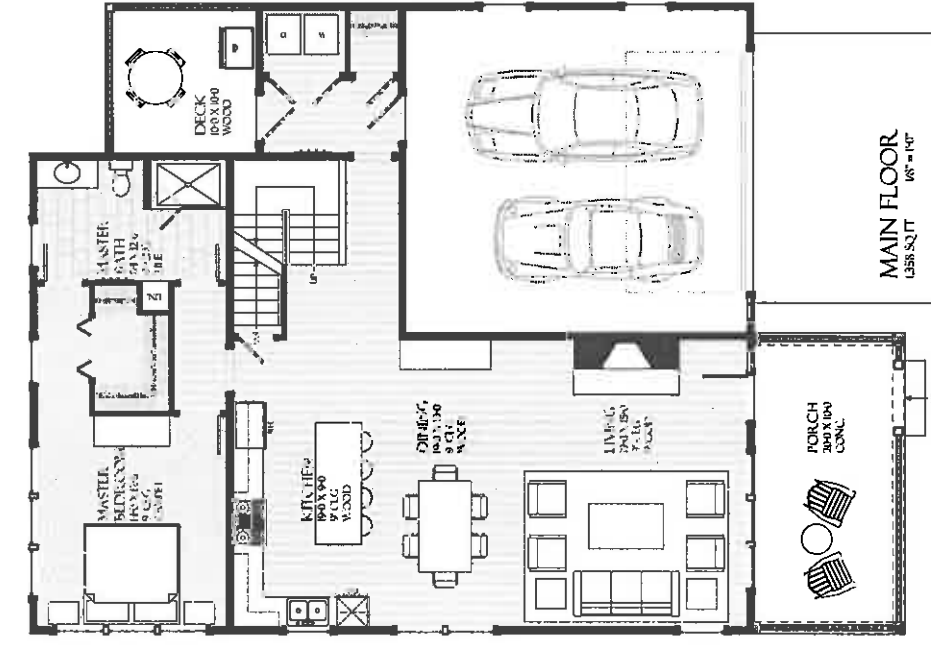
**TYPICAL UTILITY TRENCH AND BACKFILL DETAILS**

DATE	DESCRIPTION

**CASCADE  
 COTTAGES**  
 2108 ORANGE AVENUE SE  
 GRAND BLVD, MICHIGAN

**MAIN & UPPER  
 FLOOR PLANS**

**A-2**



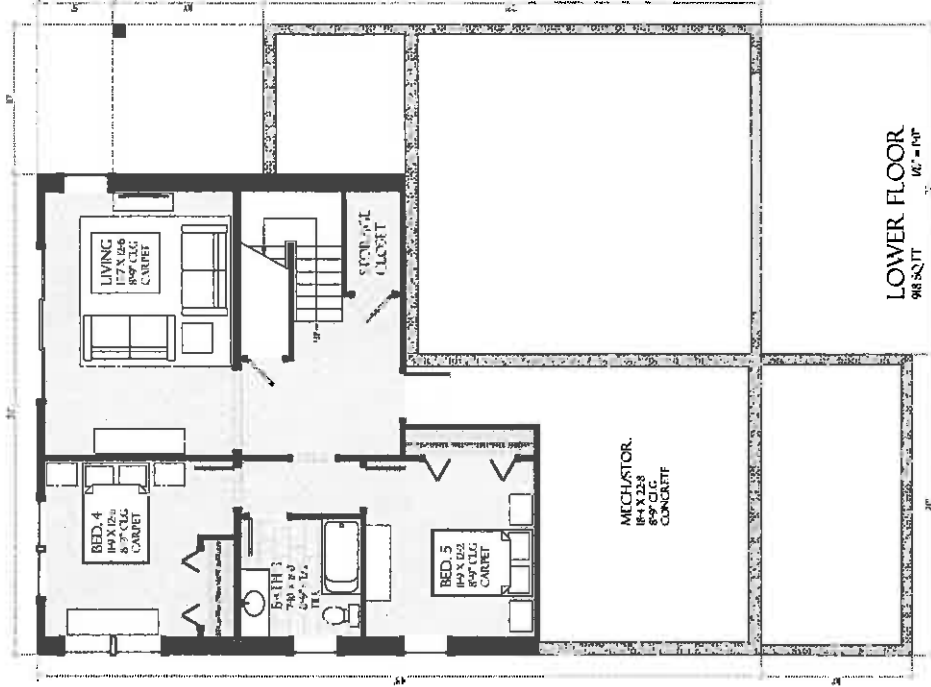
DATE	DESCRIPTION	BY	APP. BY

CASCADE  
COTTAGES

2748 ORANGE AVENUE SE  
GRAND BLAND, OHIO 43021

LOWER FLOOR  
PLAN

A-3



J. VISSER

VISSER DESIGN

5501 S. SCARLETT BLVD.  
GRAND RAPIDS, MICHIGAN 49506  
416-963-5555  
WWW.VISSERDESIGN.COM

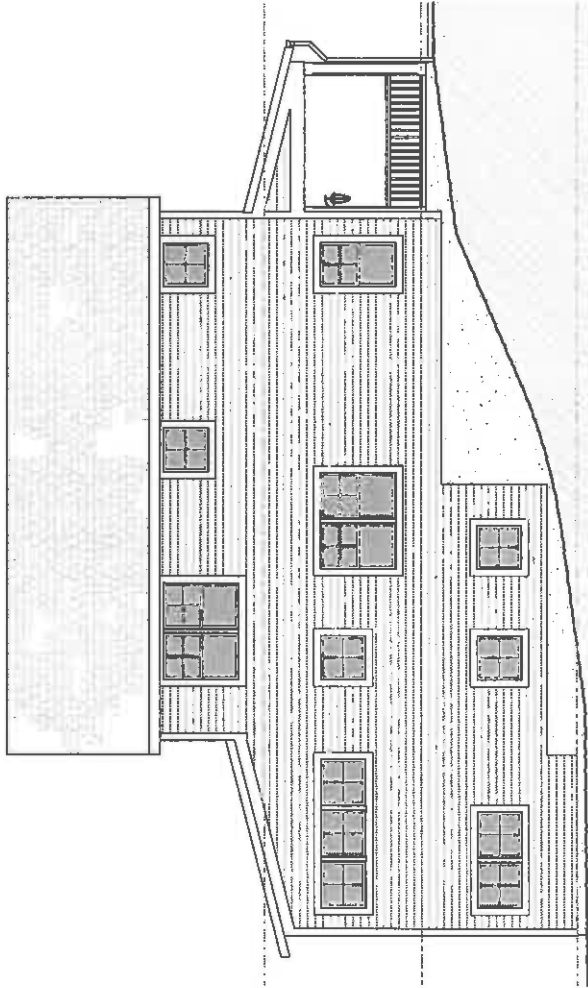
DATE	17.04.2017	DESCRIPTION	CONCEPT
BY	J. VISSER	PROJECT	RESIDENTIAL
SCALE	1/8" = 1'-0"	CLIENT	MR. & MRS. J. VISSER
NO.	01	DATE	17.04.2017

CASCADE  
COTTAGES

2108 ORANGE AVENUE SE  
GRAND RAPIDS, MICHIGAN

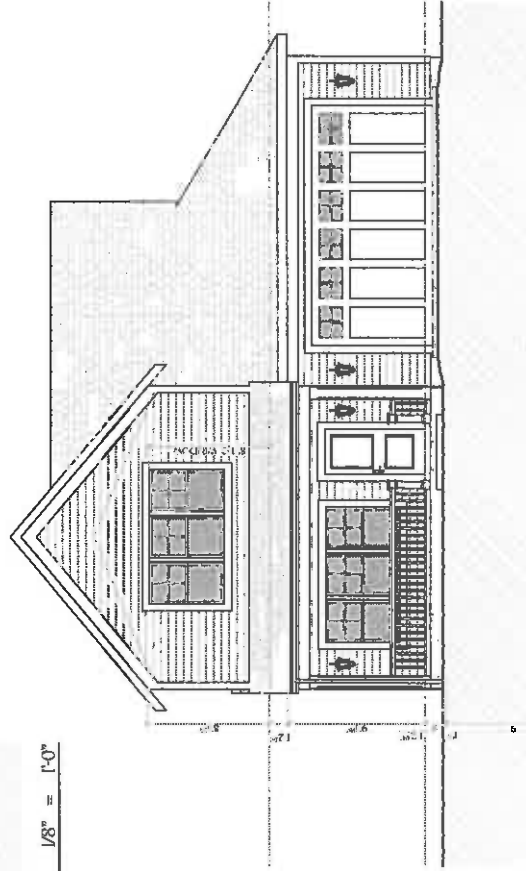
EXTERIOR  
ELEVATIONS

A-4



LEFT ELEVATION

1/8" = 1'-0"



FRONT ELEVATION

1/8" = 1'-0"

J. VISSER

VISSER DESIGN

5800 CASCADE ROAD, STE. 200  
GRAND BLAINE, MICHIGAN 49736  
(616) 843-2828  
JVISSER@GMAIL.COM

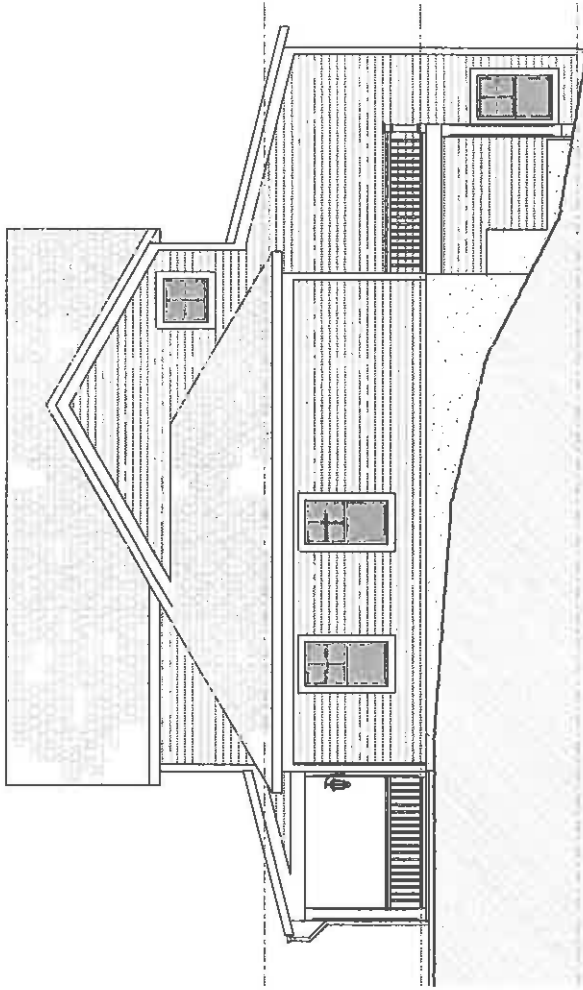
DATE	DESCRIPTION	BY	APP'D

CASCADE  
COTTAGES

2768 ORA VICE AVENUE SE  
GRAND BLAINE, MICHIGAN

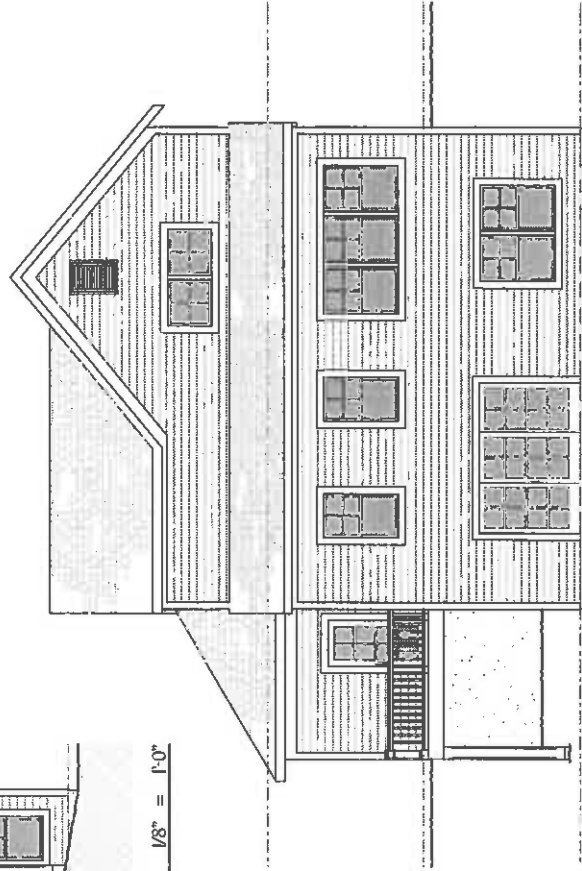
EXTERIOR  
ELEVATIONS

A-5



RIGHT ELEVATION

1/8" = 1'-0"



REAR ELEVATION

1/8" = 1'-0"

# SITE PLAN REVIEW PROCESS



## Planning & Zoning Application

**APPLICANT:** Name: Bentineau Residential LLC  
 Address: 825 Parchment Drive SE, Suite 400, Grand Rapids, MI 49546  
 Telephone: (616) 446-6216  
 Facsimile: \_\_\_\_\_

**OWNER:\*** Name: Michael P. Henne  
 Address: 2700 Orange Ave SE - Grand Rapids, MI  
 Telephone: 301.801.0505 49546  
 Facsimile: \_\_\_\_\_

(\*If different from the Applicant)

NATURE OF THE REQUEST (Please check the appropriate box or boxes)	
<input checked="" type="checkbox"/> Administrative Appeal	<input type="checkbox"/> Administrative Site Plan Review
<input type="checkbox"/> Deferred Parking	<input checked="" type="checkbox"/> P.U.D. – Rezoning **
<input type="checkbox"/> P.U.D. – Site Condominium **	<input checked="" type="checkbox"/> Rezoning
<input type="checkbox"/> Site Plan Review **	<input type="checkbox"/> Sign Variance
<input type="checkbox"/> Special Use Permit	<input type="checkbox"/> Subdivision Plat Review **
<input type="checkbox"/> Zoning Variance	<input checked="" type="checkbox"/> Other: <u>conditional rezone</u> **

(\*\*Requires an initial submission of 5 copies of the completed site plan)

**BRIEFLY DESCRIBE YOUR REQUEST:\*\*\***  
 Please refer to attached

---



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---



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(\*\*\*Use Attachments if Necessary)

# SITE PLAN REVIEW PROCESS



**LEGAL DESCRIPTION OF PROPERTY\*\*\*:**

Part of the Southeast 1/4 of Section 9, T6N, R10W, Cascade Township, Kent County, Michigan  
Lots 1, 2, and 3, Block 1, G.S. Richardson's Plat, according to the Plat thereof, as recorded in Liber 3 of Plats, page 11.

(\*\*\*Use Attachments if Necessary)

PERMANENT PARCEL (TAX) NUMBER: 41-19-09-454-001

ADDRESS OF PROPERTY: 2768 Orange Court

PRESENT USE OF THE PROPERTY: Vacant

**NAME(S) & ADDRESS(ES) OF ALL OTHER PERSONS, CORPORATIONS, OR FIRMS HAVING A LEGAL OR EQUITABLE INTEREST IN THE PROPERTY:**

Name(s)	Address(es)
Beniteau Residential LLC	825 Parchment Drive SE Suite 400
c/o Marcel Burgler	Grand Rapids, MI 49546

**SIGNATURES**

I (we) the undersigned certify that the information contained on this application form and the required documents attached hereto are to the best of my (our) knowledge true and accurate. I (we) also agree to reimburse the Cascade Charter Township for all costs, including consultant costs, to review this request in a timely manner. I (we) understand that these costs may also include administrative reviews which may occur after the Township has taken action on my (our) request.

I (we) the undersigned also acknowledge that the proposed project does not violate any known property restrictions (i.e. plat restrictions, deed restrictions, covenants, etc.)

same as applicant  
Michael Henne  
Owner – Print or Type Name  
(\*If different from Applicant)

Owner's Signature & Date  
(\*If different from Applicant) 11-3-17

Marcel Burgler  
Applicant – Print or Type Name

member - 11/6/2017  
Applicant's Signature & Date

PLEASE ATTACH ALL REQUIRED DOCUMENTS NOTED IN THE PROCESS REVIEW SHEET – THANK YOU!





November 6, 2017

Steve Peterson, Community Development Director  
Cascade Township  
2865 Thornhills Ave SE  
Grand Rapids, MI 49546

RE: Rezoning Petition for 2768 Orange Court

Mr. Peterson

This commentary will supplement our application for a conditional rezone for the 0.75 acre property at 2768 Orange Court in Cascade Township. With respect to this property, and by this letter and application, we voluntarily offer, under the terms of Section 405(1) of the Michigan Zoning Enabling Act, as a condition on our requested rezoning to Village Commercial (as compatible with the B1 Zoning District outlined in the Township Master Plan), that we will restrict the use and development of the land to single-family detached homes as indicated in the submitted plans. Our use and development will be in accordance with the submitted site plan, including building setbacks, density, and land use.

**PROJECT SUMMARY:**

The existing property at 2768 Orange Court is a 0.75 acre partially wooded site with a natural slope dropping from Orange Court to the rear of the site. The site includes numerous large trees on the rear portion, at the corner of Orange and Peace Street, and along Peace Street. These trees include maples, oaks, and walnuts. This development places homes clustered along Orange Court with small setbacks in order to preserve many of these trees and the natural slope of the site.

The existing site has single-family detached residential to the east and south, a pet cemetery to the north, and Cascade Christian Church to the west.

The existing site has a 30 foot sewer easement along its eastern edge. A storm and sanitary sewer are located in the easement. The site is fully serviced by utilities. Because nothing can be constructed within the 30 foot easement, it creates a large buffer to the neighboring property to the east and forces the proposed homes to be clustered closer to the corner of Orange and Peace.

The existing site has an ingress/egress easement for Consumers Energy along its rear boundary, including a dirt access road running the width of the site. Overhead wires and power poles run along the rear of the site. Both the access road and overhead wires will remain as part of this development.

An existing non-motorized trail runs adjacent to the site's west edge along Peace Street. The proposed site design has clustered the homes on Orange Court in order to preserve this trail and to not construct driveway access through the trail. All driveways access from Orange Court.

The project proposes to add 3 two-story single-family detached homes with attached two-stall garages along Orange Court. Homes will have walk-out basements. Homes are under 35 feet tall. The side yard between homes is 10 feet, and the setback at the Peace Street right-of-way is approximately 14 feet. The homes have a 10 foot deep porch that is setback from the Orange Court right-of-way by 15 feet. The main mass of the homes (not including the porch) is set back 25 feet from the right-of-way. The attached garages are setback from the front of the porch 10 feet in order to minimize their impact on the streetscape.

The rear walkout area of these homes is approximately 90 feet from the rear property line, ensuring that existing trees are preserved.

The project will be a site condominium.

### **EVALUATION:**

#### **Zoning and Master Plan Designations**

The subject property currently falls within the R2 Residential Zoning District. Chapter 6 of the Zoning Ordinance provides the intent of this District as follows (page 6-1):

*These districts are intended to encourage a suitable environment for residential and compatible supportive uses. To this end they are the most restrictive residential districts permitting low density single family homes and uses and a controlled degree of recreational, religious and educational facilities.*

The subject property currently falls within the Village Commercial Future Land Use in the Township Master Plan. The Master Plan describes Village Commercial as follows (page 94):

*This land use designation is intended to foster a pedestrian-scale, local shopping district confined to the parcels currently zoned for commercial use. It is not the intent of this land use plan to expand commercial uses either north or south along Cascade Road. The village commercial area is intended to be a walkable commercial district, where architectural style is paramount, but not rigid. Low shrubbery, picket fences and other features should be in place along the roadway to delineate the use and create interest for pedestrians.*

The Master Plan further indicates that residential densities would be 6-8 dwelling units per acre, possibly in the form of townhomes (page 94).

The Master Plan's Zoning Plan (page 98) indicates that the Village Commercial Future Land Use corresponds to the current B1 Zoning District.

Chapter 8 of the Zoning Ordinance provides the intent of the B1 District as follows (page 8-1):

*This district is intended to promote a village atmosphere, which is built to human scale to encourage attractive street fronts and connecting pedestrian walkways as a first priority while still accommodating vehicular movement. This district is intended to satisfy the land needs for convenience, specialty and personal service type shops and establishments primarily serving those person residing in the surrounding residential areas of the Township. The district is also intended to provide mixed uses with residential above retail or office uses, live/work, and stand-alone attached residential uses. The district is not intended for the location of multi-tenant strict commercial structures which when judged independently would be classified as community wide or regional in scale.*

## **Zoning Requirements for R2 and B1 Districts**

### **R2 Setbacks**

Chapter 18 (Table 18-B) of the Zoning Ordinance provides the placement and yard area standards for residential dwellings as follows (page 18-2):

<i>Front yard setback, local:</i>	<i>35 feet (68 feet from street centerline)</i>
<i>Side yard setback:</i>	<i>10 feet minimum on one side 25 feet total both sides</i>
<i>Rear yard setback:</i>	<i>25 feet</i>

### **B1 Setbacks**

Chapter 8 (Table 18-A) of the Zoning Ordinance provides the building setbacks for the B1 District as follows (page 8-2):

<i>Front yard setback, local:</i>	<i>20 feet minimum, 30 feet maximum</i>
<i>Side yard setback:</i>	<i>7 feet minimum, total of two yards not less than 16 feet</i>
<i>Rear yard setback:</i>	<i>30 feet</i>

### **R2 Building Height**

Section 18.03 (page 18-1) indicates structures in R2 shall not exceed 35 feet or 2-1/2 stories.

### **B1 Building Height**

Chapter 18 (Table 18-C) of the Zoning Ordinance provides the height standards for the B1 District (page 18-3):

<i>Maximum Structure Height:</i>	<i>30 feet for residential uses</i>
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### **R2 Lot Sizes, Area Standards, and Density**

Chapter 18 (Table 18-A) of the Zoning Ordinance provides the residential dwelling and lot bulk and area standards for the R2 Zoning District as follows (page 18-1):

<i>Minimum Floor Area:</i>	<i>1300 sf (one-story dwelling) 1600 sf (two-story dwelling)</i>
<i>Minimum Dwelling Width:</i>	<i>20 feet</i>
<i>Minimum Lot Width:</i>	<i>110 feet for unplatted lots</i>
<i>Minimum Lot Area:</i>	<i>40,000 sf for unplatted lots</i>
<i>Maximum Density:</i>	<i>Refers to Subdivision Ordinance*</i>
<i>Maximum Lot Coverage:</i>	<i>25%</i>

*\*Table 5-2 Subdivision Standards R2 Zoning District (Minimum Lot Width Minimum Lot Area)  
No open space = 95 foot lot width and 36,000 sf lot area  
At least 25% open space = 85 foot lot width and 15,000 sf lot area  
At least 50% open space = 65 foot lot width and 10,000 sf lot area.*

### **B1 Lot Sizes and Area Standards**

Section 8.06 (page 8-2) of the Zoning Ordinance provides minimum lot sizes and areas for the B1 Zoning District.

*Minimum Lot Area:* None with approved site plan, otherwise 20,000 sf  
*Minimum Lot Width:* 100 ft. unless waived for access management techniques

### **B1 Density**

Section 8.03 (page 8-1) of the Zoning Ordinance provides residential uses permitted by right:

*Density:* Up to 3 residential dwelling units per acre

Section 8.04 (page 8-2) of the Zoning Ordinance provides residential uses permitted by Special Land Use:

*Density:* Over 3 residential dwellings units per acre, but under 9 du/acre

### **SUMMARY**

The application requests a rezone to the Village Commercial Future Land Use designation (as compatible with the B1 Zoning District outlined in the Township Master Plan). The proposed plan includes the following:

- 3 homes on 0.75 acres for a density of 4 dwelling units per acre. This density is permitted by a Special Land Use per Section 8.04 in the B1 District.
- The homes have a side yard setback of 10 feet between each house. The B1 District permits a 7 foot minimum side yard setback with a 16 foot minimum for both yards. The application requests that the 10 foot yard be permitted to cluster homes at Orange Court and preserve the existing trees in the rear of the site.
  - The eastern side yard at the property line is at 30 feet, which meets the standards of the B1 District.
  - The western side yard at Peace Street right-of-way is approximately 14 feet, which meets the 7 foot minimum established in the B1 District. This side yard is adjacent to the non-motorized trail and Peace Street.
- The homes have an approximately 90 foot rear setback. The B1 District requires a 30 foot rear yard setback. The proposed plan nearly triples the rear yard setback requirement.
- The homes have a 15 foot front yard setback from the front porch to the Orange Court right-of-way and a 25 foot front yard setback from the front of the house (not including porch projection) to the Orange Court right-of-way. The B1 District requires a 20 foot minimum front yard setback. The application requests that the 15 foot front porch setback be permitted to cluster homes closer to Orange Court in order to preserve existing trees in the rear of the site, preserve meaningful open space at the rear of the site, and promote a village atmosphere, which is built to human scale to encourage attractive street fronts and connecting pedestrian walkways as a first priority (as outlined in the description of the Village Commercial Future Land Use in the Township Master Plan).

- The proposed development includes 69.2% open space (not including homes, drives, and the existing Consumers access drive). While B1 District does not quantify open space requirements, the underlying zoning of R2 offers varied degrees of performance standards that incentivize smaller lot sizes if more open space is provided.

### **CASCADE TOWNSHIP REZONING REVIEW PROCESS**

Rezoning review process, as outlined in Cascade Township Procedures Manual (page 3-1) is as follows. Application answers each of the considerations below:

*When the public hearing is completed, the Planning Commission, will have a discussion among themselves to arrive at a recommendation regarding the request. Before giving their recommendation, the Planning Commission must evaluate the request keeping the following considerations in mind:*

- A. *Whether a proposed land use change is consistent with the goals, objectives, policies, and intent of the Cascade Township General Development Plan;*

The Township Master Plan envisions this parcel to be Village Commercial. Village Commercial intends to promote a village atmosphere, which is built to human scale to encourage attractive street fronts and connecting pedestrian walkways as a first priority. The proposed plan clusters the three homes along Orange Court with front porches facing the street. These homes are two-story traditionally styled residences that reinforce the street edge. Additionally the homes are consistent to the existing residential pattern to the east and south of the site.

- B. *Whether a proposed land use change meets or exceeds all performance and locational standards set forth for the proposed use;*

As outlined above, the side yard setbacks are less than the required standards in between the homes. These smaller setbacks permit the homes to be clustered on Orange Avenue to reinforce the street frontage and human scale, while also preserving meaningful open space to the rear of the site.

Perimeter setbacks at the side yards meet the requirements.

Front yard setbacks are less (15 feet) than the required 20 foot setback if the porch is used as the front of the home. If the façade of the house is used then the setback would be 25 feet. This slightly smaller setback permit the homes to be clustered on Orange Avenue to reinforce the street frontage and human scale, while also preserving meaningful open space to the rear of the site.

*C. Whether a proposed land use change is consistent with the densities, intensities, and general uses set forth in the Cascade Township General Development Plan;*

As outlined above, the density of the site is 4 dwelling units per acre (3 homes on .75 acres). B1 (the zoning that the Village Commercial is based upon per the Master Plan) permits up to 3 dwellings per acre and allows by Special Land Use over 3 and less than 9 dwelling units per acre. The proposed project provides 3 homes that line Orange Court and help to establish a street frontage. In addition the proposed project preserves over half of the site as open space (69.2%). When open space and Master Plan recommendations are considered the overall density of the site is consistent with the densities envisioned by the Cascade Township General Development Plan.

Permitted uses in the B1 District include residential and the Village Commercial Future Land Use also envisions residential uses. The proposed project is consistent with these residential uses and the existing surrounding residential uses.

*D. Whether a proposed land use change will protect, conserve or preserve environmentally critical areas and natural resources;*

This proposed land use change and site plan layout preserves over half the site as open space (69.2%) and more importantly seeks to preserve a majority of the existing large caliper maple, oak and walnut trees in the rear and edges of the site.

*E. Whether a proposed land use change will be compatible with existing or planned uses and not cause damage, hazard, nuisance, or other detriment to persons or property;*

The proposed project is consistent and compatible with the existing surrounding single family residential pattern to the east and south of the site.

*F. Whether the location of a proposed land use change places an undue burden upon existing transportation or other services and facilities and will be served by streets with the capacity to carry traffic generated by the development;*

The proposed project includes three single family homes along Orange Court. These homes are consistent with the existing residential pattern and are unlikely to burden existing transportation facilities in any meaningful way. The Village Commercial Future Land Use in the Master Plan also envisioned small scale commercial activities for this parcel – the proposed single family residential is less intense than these envisioned uses in regards to trip generation and traffic patterns.

*G. Whether a requested use will be in compliance with all applicable General Provisions and Special Use Regulations pertaining to the use, as set forth elsewhere in the Zoning Ordinance; and*

The requested rezone is in compliance with all applicable General Provisions and Special Land Use Regulations as outlined above.

*H. Whether a proposed change is to rectify errors on the Official Zoning Map.*

The requested rezone is not intended to rectify errors to the Official Zoning Map. As outlined above, the requested rezone is primarily consistent with the B1 District and Village Commercial Future Land Use. Exceptions include the smaller internal side yard setbacks, the smaller front yard setback and the slightly increased density in terms of dwelling units per acre which is permitted as a Special Land Use. These requested elements reinforce the vision of the Master Plan, are compatible with surrounding land uses, and preserve natural areas on the site.

## Conditional Rezoning

By: Gregory Milliken, AICP

Imagine a situation where a school district has decided to build a new school complex on the outskirts of town, resulting in the abandonment of the long time school building on the main drag near downtown. The current school building sits on 10 acres, is zoned residential (because it is and will always be a school, right?), is situated on the state highway that runs through town, and is surrounded by an established residential neighborhood.

With the school district looking to sell the building, the local hospital has indicated an interest in purchasing the property and reusing the building as an assisted living facility. The community is very supportive of this idea as it allows for the preservation of the important structure and the site while providing a needed service to residents. The problem is that it requires rezoning from single family residential to high density multi-family residential. This is contrary to the Master Plan, and frankly, should the hospital's plans fall through, the prospect of apartments at the site would not be viewed favorably at all.

Therefore, both the applicant and the community know that conventional rezoning would not achieve their goals. In order to achieve the desired zoning while providing the commitments necessary to give the community the comfort to approve the request, the applicants turn to conditional rezoning.

### WAIT, WHAT? WE CAN DO CONDITIONAL REZONING?

In the example above, the applicant recognized that the best option to achieve the desired goals was through rezoning. However, it was also recognized that rezoning to multi-family was not going to be approved. Therefore, through conditional rezoning, restrictions placed on the proposal make the request more amenable. Such restrictions can include limitations on the uses permitted at the site, hours of operation, enhanced setbacks, signage, and access. The conditions can also address what will occur in the future when the proposed use and/or applicant leaves the site including whether the conditions will carry forward or whether the site will revert back to the previous single family residential zoning.

As demonstrated here, conditional rezoning allows an applicant an opportunity to make offers in conjunction with their request that will restrict the use or development of the property. These are voluntary offers and cannot be required or coerced by the community.



## **WHAT IS KNOWN ABOUT CONDITIONAL REZONING?**

Frankly, there is not much experience with conditional rezoning, and opinions are mixed as to its value and usefulness. There are communities that prohibit its use while others welcome it.

Section 405 of Public Act 110 of 2006, as amended (MCL 125.3405) authorizes the use of conditional rezoning in Michigan. This section of the Act provides little guidance to jurisdictions as to how the tool should be used. Further, little guidance has been provided through the Court system. Thus, the instructions provided by most municipal attorneys and community planners has been to tread carefully and cautiously when using conditional rezoning as it is not yet fully defined what can and cannot be done.

That being said, there are a few things that are understood about conditional rezoning that few will disagree about. Most importantly, it is clear that a community cannot require or coerce a condition as a part of a rezoning request. Practically speaking, this means that a Planning Commission cannot suggest conditions be added to a rezoning request. The conditions must be brought forward by the applicant and either approved or denied by the community.

The second clear requirement of the Act is that a community can set a timeframe within which the applicant must comply with the approved conditions. So if as a condition of rezoning approval an applicant commits to removal of an existing curb cut, the community can set a time frame for completion of that requirement.

## **WHY USE CONDITIONAL REZONING?**

Conditional rezoning allows for creative development and use of unique properties that may not fit the exact molds that were cast when the Master Plan and Zoning Ordinance were completed. At a broad level, when the site is considered along with surrounding properties, it may fit well within the designation. But at a micro, site specific level, the unique conditions of the site may make that specific designation less suited to the property than another designation. This may be due to the property's size, road frontage, access, natural features, adjacent land uses, existing improvements, or numerous other reasons.

An applicant will likely consider using conditional rezoning when they expect that a conventional rezoning request will not be viewed favorably. It will be particularly effective if there are specific elements of the request that can be identified as likely to cause discomfort that can be mitigated through conditions.



Conditional rezoning is also used in instances where the Zoning Ordinance has not quite caught up to the Master Plan. A property may have a Future Land Use designation in the Master Plan that does not correspond to its zoning designation. The proposed use may fit the Future Land Use designation, but there may not yet be ordinance language in place that matches the desired development. Conditional rezoning allows for rezoning to an existing zoning district with restrictions to ensure it conforms to the community's vision.

### **WHAT ARE THE CONCERNS WITH CONDITIONAL REZONING?**

The most common argument against conditional rezoning is that it undermines the Master Plan and allows "spot zoning". If the community determines through the various public processes that a site should be planned and zoned "Agricultural," then a conditional rezoning to "Commercial" could be contrary to this, particularly when surrounded by agricultural properties. The key for conditional rezoning to work is the conditions. The self-imposed conditions and associated development could be drafted in a manner that allows the request to occur consistent with the goals and objectives of the Master Plan despite the need to change zoning district. If this is the case, the concerns raised may be mitigated.

### **NEXT STEPS**

Since there is little guidance provided by the Statute as to how to proceed with a conditional rezoning request, it is best to include language in the Zoning Ordinance that provides such guidance. (Note that not having language regarding conditional rezoning in a Zoning Ordinance does not prohibit the use of conditional rezoning in a community; it is authorized by Section 405 of Public Act 110 of 2006, as amended (MCL 125.3405). Similarly, having language in a Zoning Ordinance does not require the community to accept all such requests.) The Ordinance should indicate that conditional rezoning requests follow the same process and review criteria as conventional rezoning requests. Of particular importance, the application is reviewed at a public hearing of the Planning Commission that shall be noticed in the same manner as a conventional request. The Planning Commission then makes a recommendation to the legislative body for final adoption.

The Zoning Ordinance language should also provide guidance and requirements as to acceptable elements for consideration as a condition of rezoning and elements that are not acceptable. There is little disagreement that any conditions that exceed ordinance requirements – in essence grant a variance through the process – are not acceptable. Similarly, conditions cannot authorize uses within the district that are not otherwise permitted (i.e. use variances). Cash bribes are also not recommended.



Specific procedural steps unique to conditional rezoning are also often included in such ordinance language. This would include the timing and format of submittal of proposed conditions and process for amending of conditions. Upon completion of the process, it should also be clear what form the conditions will be presented and how they will be recorded. Will a verbal presentation be adequate or is a legal agreement required? It is recommended that upon final adoption of the rezoning and conditions by the legislative body, a formal agreement be signed and recorded with the property.

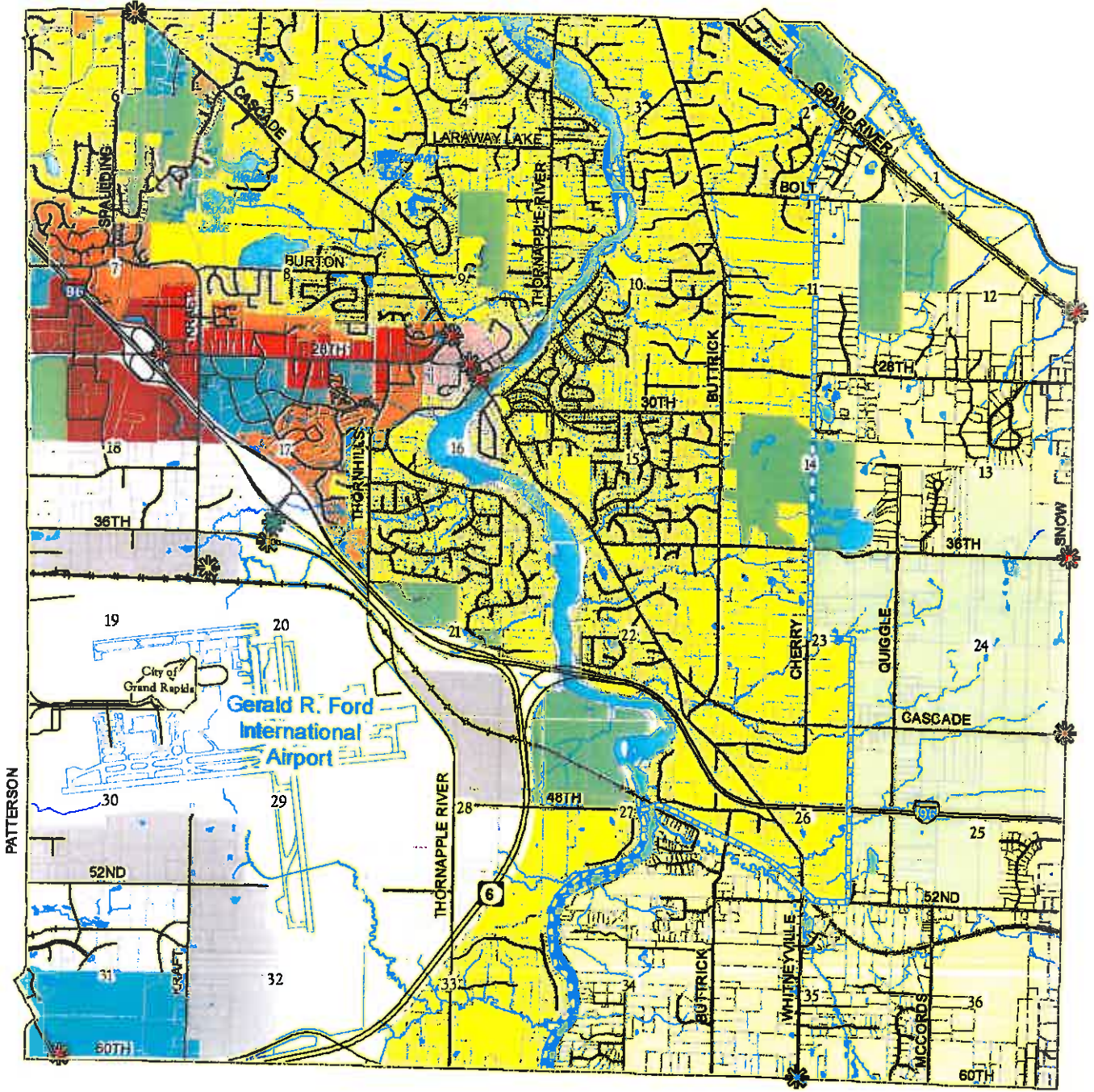
The most common question asked regarding conditional rezoning is how a community can make an applicant aware of conditional rezoning and potentially provide feedback regarding conditions. Not having a vote in the final decision, Staff may have an ability to provide guidance to an applicant on the use of this technical tool as well as help interpret comments and feedback from the Commission members. Readers should discuss this further with their municipal attorneys and within their individual community as opinions vary across the State.

Conditional rezoning is not a magic elixir; it is not a solution to all unique problems or development situations. But it is a tool available to all communities that should be understood to maximize the effectiveness, in case it's needed.

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*Author Gregory Milliken, AICP is the Planning Director for Oshtemo Charter Township (Kalamazoo County) and is also the Planner & Zoning Administrator for Kalamazoo Charter Township (Kalamazoo County). He has worked as a community planner in the public and private sectors for 15 years in Michigan, Ohio, and Washington.*

Ada Twp



Caledonia Twp

**Cascade Charter Township**  
 Kent County, Michigan

**Map 15**  
 Future Land Use

**Legend**

- Gateway Feature
- Park 'n' Ride
- Rail Station
- Utility Service Area
- Farmland Preservation
- Rural Residential
- Suburban Residential
- Community Residential
- Village Commercial
- General Commercial
- Highway Commercial
- Mixed Use
- Heavy Industrial
- Light Industrial
- Community Facility / Golf Course

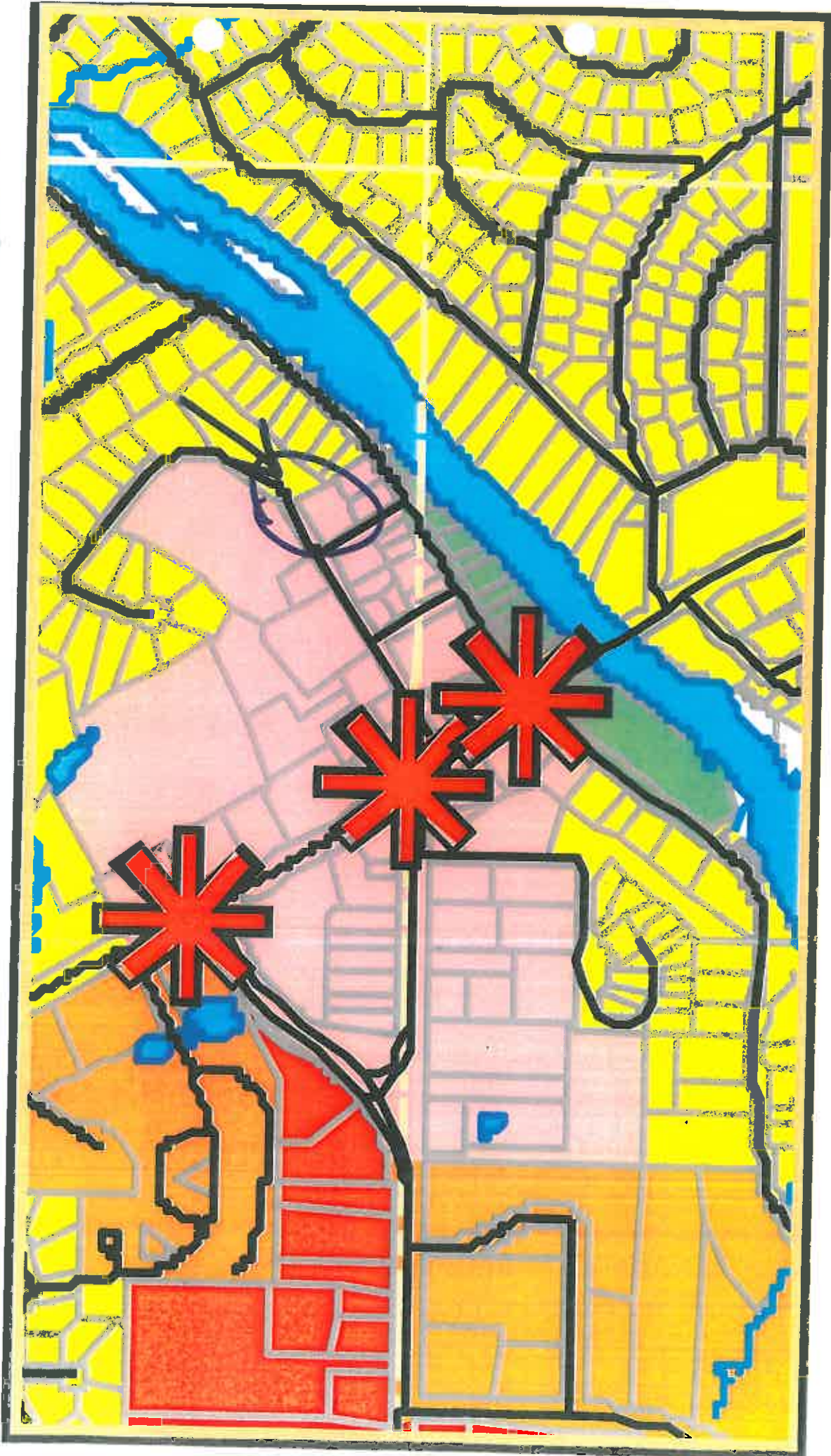


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 Planning & Consulting  
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 119 Ottawa Avenue NW • Grand Rapids, MI 49503

April 22, 2009

N4



neighborhoods is a primary concern and measures should be taken periodically to assure proper coverage of these services. Private roads should be considered under certain circumstances, such as for the preservation of large stands of trees, or to preserve steep slopes, where drainage and run-off is a concern, or where important natural features have been identified in the Natural Feature Inventory.

#### **COMMUNITY RESIDENTIAL**

**Description:** The community residential land use designation is intended for attached or detached single family and multi-family housing. A project should be designed and developed to provide attractive, up-scale master planned living environments with amenities such as open spaces, walking paths, street trees, street lighting and attractive architectural style. Buildings and structures should be designed to minimize bulk and massing of attached living units.

**Location:** The community residential land use area primarily serves as a transition from commercial/mixed use and suburban residential uses along 28<sup>th</sup> Street. However, there are two areas where this use is proposed along the south side of Cascade Road north of Burton.

**Desired Uses and Densities:** Uses may include attached and detached residential dwellings, including projects that incorporate a variety of housing options, as well as assisted living and retirement communities. Master-planned retirement communities may also incorporate low-impact commercial uses internal and integrated within the development such as personal service establishments (barber shop or hair salon), post office, financial institution and other necessary uses for the convenience of the residents but not available for use by the general public. Development within the community residential area should include a walking system that connects to any existing or planned non-motorized pathway. The Township desires for the community residential areas to be served by mass transit in the future. Water and sewer must be available for new development or redevelopment in this land use category. Additionally, any natural features should be preserved and protected in projects located in the community residential land use area. Only public roads would be permitted in the community residential land use category. Allowable densities would range between 4-6 dwelling units to the acre.

#### **VILLAGE COMMERCIAL**

**Description:** This land use designation is intended to foster a pedestrian-scale, local shopping district confined to the parcels currently zoned for commercial use. It is not the intent of this land use plan to expand commercial uses either north or south along Cascade Road.

The village commercial area is intended to be a walkable commercial district, where architectural style is paramount, but not rigid. Low shrubbery; picket fences and other features should be in place along the roadway to delineate the use and create interest for pedestrians.

**Location:** The village commercial land use category is located at the heart of Cascade Charter Township where Cascade Road, 28<sup>th</sup> Street and the Thornapple River converge. It is not the intent of this land use category to expand beyond the current commercially-zoned properties along Cascade Road.

**Desired Uses and Densities:** Desired uses include retail commercial, personal service establishments, eating and drinking establishments, financial institutions, and convenience stores with or without fuel stations. Residential uses are also planned, including above retail or office uses. Townhome, retirement centers, assisted living, and other elderly care facilities are also recommended. Other uses should be phased out and encouraged to locate to a more automobile-oriented commercial corridor. Residential densities would be 6-8 dwelling units to the acre. Pedestrian/bicycle circulation plans should be prepared for new development that includes access from sidewalks and non-motorized paths to any building entry. Bicycle racks are encouraged. Traffic calming, crosswalk demarcations, countdown walk signs, plantings and signage are encouraged at 28<sup>th</sup> Street and Cascade Road at the Village to create a sense of place for shopping, strolling, biking, and walking. Water and sewer must be available for development in this land use category. Additionally, any natural features should be preserved and protected in projects located in the village commercial land use area. The Township hopes that the village commercial area is served by mass transit in the future.

#### GENERAL COMMERCIAL

**Description:** This land use designation is intended to provide goods and services to meet the needs of the immediate neighborhood and the larger region. Facilities will be developed in harmony with the area's natural features and in a scale and form to encourage pedestrian access and to minimize auto-pedestrian conflicts. Cross-access easements and access roads will be encouraged to reduce the proliferation of curb-cuts. In addition, landscape standards and signage limitations will be utilized to promote attractive and functional developments. The current three acre minimum lot area requirement may be reduced for projects that incorporate certain green/eco-friendly building technologies, or provide a specific amount of green space, such as 35%.

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## TOWNSHIP BOARD MEMORANDUM

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**To:** Cascade Charter Township Board

**From:** Sandra Korhorn, DDA/Economic Development Director SKK

**Subject:** Public Hearing and Consider Resolution of Acceptance and Use of Community Development Block Grant (CDBG) money

**Meeting Date:** March 14, 2018

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As you know each year Kent County allocates a majority of the Community Development Block Grant (CDBG) funds to participating local units of government. In order to spend these funds, the project must meet specific guidelines and standards.

The township generally spends the majority of its funds on Hope Network transportation. Last year Kent County Community Development (KCCD) put together a task force committee to discuss the CDBG dollars allocated by communities for transportation. If you recall, Hope Network falls under the Public Services category of the CDBG program which stipulates that not more than 15% of the total County allocation of funds can be spent on Public Services. Due to the cap, many municipalities cannot use funds for transportation in their communities.

The task force was put together to discuss options that would allow transportation be available in all communities. While they were hoping to have a resolution, it is an extremely complex topic and one that has not been solved at this time. The committee continues to meet on the topic.

In order to move forward for the next program year, the Township needs to hold a public hearing and approve the attached resolutions allocating the CDBG funds to Hope Network.

Again, staff is recommending that Cascade Township distribute the following dollars:

- \$7,159.00 to Hope Network

I have attached a resolution authorizing the acceptance of CDBG Funds and a resolution authorizing the use of the funds to the above listed service.

**Cascade Charter Township  
Kent County, Michigan  
Resolution # of 2018**

**A RESOLUTION AUTHORIZING THE ACCEPTANCE OF  
COMMUNITY DEVELOPMENT BLOCK GRANT FUNDS FROM KENT COUNTY**

WHEREAS, federal monies are made available under the Community Development Block Grant (CDBG) program from the U.S. Department of Housing and Urban Development (HUD) through the Kent County Community Development Department; and

WHEREAS, it is necessary for the Cascade Charter Township Board to approve the acceptance of CDBG funds from Kent County; and

NOW, THEREFORE BE IT RESOLVED, that the Cascade Charter Township Board does hereby accept the award of:

<b>Program Description</b>	<b>Allocation</b>
<u>Hope Network</u>	<u>\$7,159.00</u>
	\$7,159.00

from HUD through Kent County to be used for eligible activities approved by Kent County.

The foregoing Resolution was offered by Board Member, supported by Board Member . The roll call vote being as follows:

YEAS:

NAYS:

ABSENT:

ABSTAIN:

**RESOLUTION DECLARED ADOPTED.**

\_\_\_\_\_  
Susan B. Slater  
Township Clerk

**CERTIFICATION**

I hereby certify the above to be a true copy of a resolution adopted by the Cascade Charter Township Board at a regular meeting held at the Cascade Township Library Wisner Center on the 14<sup>th</sup> day of March, 2018, at 7:00 p.m.; pursuant to the required statutory procedures.

Dated: March 14, 2018

By: \_\_\_\_\_  
Susan B. Slater  
Township Clerk

**Cascade Charter Township  
Kent County, Michigan  
Resolution # of 2018**

**A RESOLUTION AUTHORIZING THE USE OF  
COMMUNITY DEVELOPMENT BLOCK GRANT FUNDS FROM KENT COUNTY**

WHEREAS, federal monies are made available under the Community Development Block Grant (CDBG) program from the U.S. Department of Housing and Urban Development (HUD) through the Kent County Community Development Department; and

WHEREAS, after a public hearing and due consideration, Cascade Charter Township has recommended that an application be submitted to the Kent County Community Development Department for the following projects and budgets: Hope Network - \$7,159.00; and

WHEREAS, it is necessary for the Cascade Township Board to approve the preparation and filing of an application for Cascade Charter Township to receive funds from this program for specific projects;

NOW, THEREFORE BE IT RESOLVED, that the Cascade Charter Township Board does hereby approve the use of CDBG funds for the above-named project and the submission of an application to Kent County Community Development Department; and that the Township Manager is hereby authorized to sign all necessary documents on behalf of the Cascade Charter Township Board; and that authority is hereby granted to the DDA/Economic Development Director to take the necessary steps to prepare and file the application for funds under this program and in accordance with this resolution.

The foregoing Resolution was offered by Board Member , supported by Board Member . The roll call vote being as follows:

YEAS:

NAYS:

ABSENT:

ABSTAIN:

RESOLUTION DECLARED ADOPTED.

---

Susan B. Slater  
Township Clerk

**CERTIFICATION**

I hereby certify the above to be a true copy of a resolution adopted by the Cascade Charter Township Board at a regular meeting held at the Cascade Library Wisner Center on the 14<sup>th</sup> day of March, 2018, at 7:00 p.m., pursuant to the required statutory procedures.

Dated: March 14, 2018

By: \_\_\_\_\_  
Susan B. Slater  
Township Clerk

## STAFF REPORT

TO: Cascade Charter Township Planning Commission  
FROM: Steve Peterson, Planning Director  
REPORT DATE: March 7, 2018  
MEETING DATE: March 13, 2018  
CASE: #17-3425/West Bluffs

### GENERAL INFORMATION

- A. Applicant: Alpha Lima Ventures  
5000 Kendrick St  
Grand Rapids MI 49512
- B. Status of Applicant: Purchaser
- C. General Location: SW corner of Thornhills and Tahoe.
- D. Requested Action: Amend the Centennial PUD to allow for 9 additional residential units at the corner of Thornhills and Tahoe.
- E. Existing Zoning on Subject Parcels: PUD 39
- F. Zoning on Adjoining Parcels:  
N- PUD 39  
S- PUD 39  
E - PUD 55  
W- PUD 39
- G. Parcel Size: approximately 2.4 acres
- H. Existing Land Use on Subject Parcel: Vacant
- I. Adjacent Area Land Uses:  
N-Forest Hills Condominium  
S- Meadows Condominium  
E - Sentinel Pointe Retirement  
W- Meadows Condominium

## STAFF ANALYSIS

1. The applicant is requesting Final Plan approval to amend the Centennial Park PUD to allow 9 more residential units.
2. Originally, this location was planned for a child or adult day care facility. This has obviously never been built. They are now asking that this location be permitted 3 buildings of 3-units each for a total of 9 new units.
3. A lot of discussion went into the total number of units permitted on the redevelopment of the golf course. We permitted a total of 252 units on the redevelopment of the golf course on about 43 acres, plus the day care, lawn maintenance operation, and the recreational uses including the catering operation at the clubhouse.
4. This new amendment would bring the total amount of new residential units for the redevelopment of the golf course to 261 units. On 43 acres this comes to about 6.06 units per acre.
5. Amending the plan to eliminate the daycare and go with 9 new units seems like a reasonable request. During the redevelopment of the golf course the developer originally asked that this corner be allowed some commercial uses and the day care was a compromise from what they originally wanted.
6. The property is zoned PUD #39 Centennial Park and is Master Planned Community Residential. The community residential designation reflects the existing mixed use nature of the park.
7. The site plan has been designed to comply with the 43 foot setback requirements off from Thornhills.
8. The project has been reviewed by the City of Grand Rapids relative to the current plan in regards to the pump station that services this development. The City has not expressed any issue with the requested changes.
9. The development of this corner also required the development of sidewalk along Thornhills. Since that time there has been some interest by the DDA to extend sidewalk on Tahoe to Thornhills. The plans now include a 7 foot sidewalk along Tahoe and the frontage along Thornhills will be graded to allow for the development of a path in the future. This is also in line with the traffic study that was done for the original project which indicated clearing and re-grading the intersection to improve sight lines.

- 10. This is the same developer who recently did the project on Overlook summit. These new units will be very similar to the project that was built on Overlook Summit.
- 11. Curb cut location and new street name have been approved by the KCRC.
- 12. The size of the each condominium is about 1,500-1,600 sq ft.
- 13. Traffic study report from the redevelopment in 2014 indicated that the existing roadways have capacity to handle the redevelopment. The only improvement noted was to clear some vegetation looking north on Thornhills to help sight distance.
- 14. The Township Engineer has reviewed and approved the plan.
- 15. The Fire Dept has reviewed and approved the plan.
- 16. The planning commission has reviewed the plan and is recommending approval as shown on the attached plans.

**17. Standards**

Section 16.03 of the Zoning Ordinance requires that a Planned Unit Development must demonstrate that:

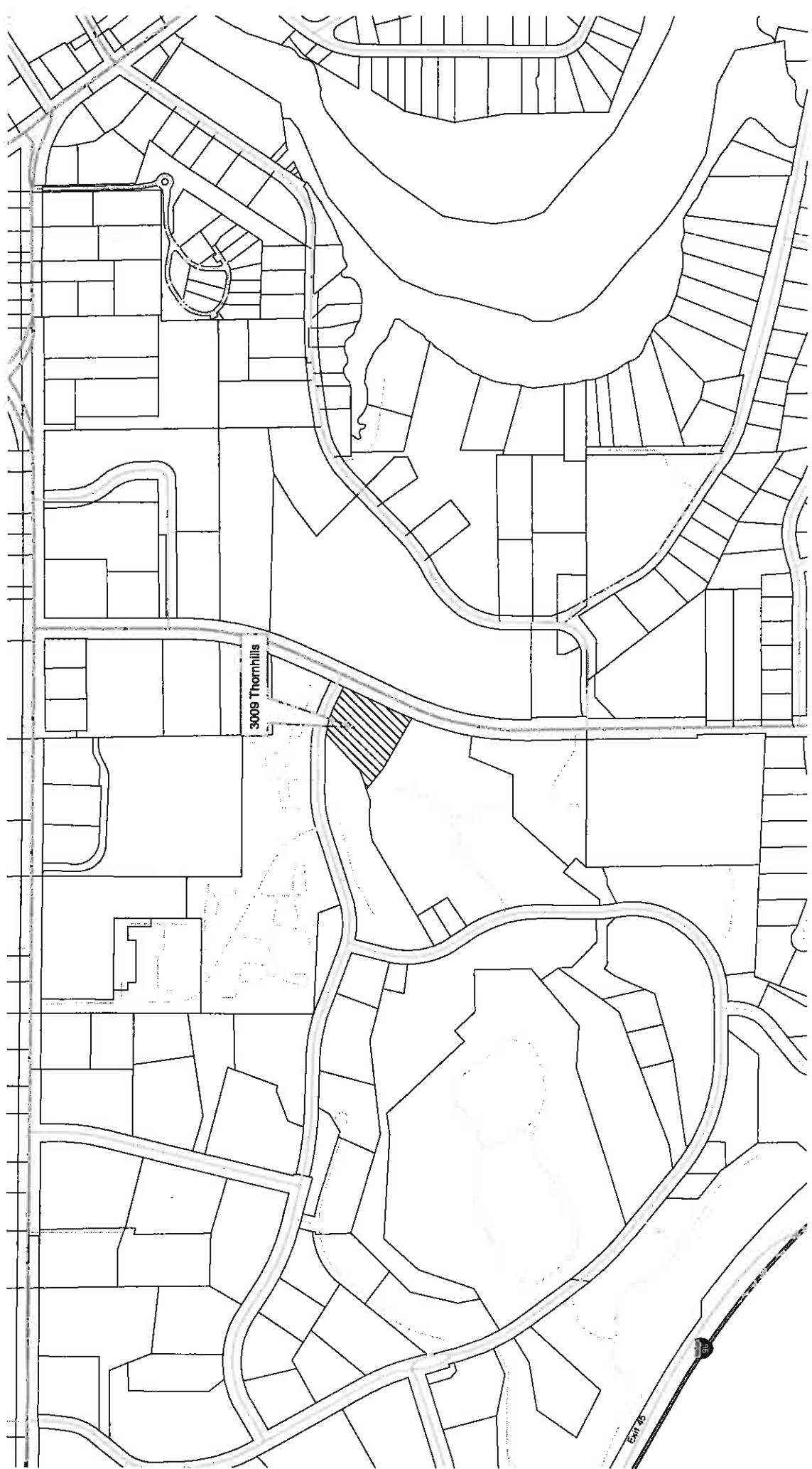
Standard	Staff Comment
Granting of the Planned Unit Development rezoning will result in a recognizable and substantial benefit to the ultimate users of the project and to the community, where such benefit would otherwise be unfeasible or unlikely to be achieved.	The property is already zoned PUD. The changes they are asking for are consistent with the master plan.
In relation to underlying zoning, the proposed type and density of use shall not result in a material increase in the need for public services, facilities and utilities, and shall not place a material burden upon the subject or surrounding	The type of use and density is consistent with the master plan would not result in a material increase in the need for public services.

land or property owners and occupants or the natural environment	
The proposed development shall be compatible with the General Development Plan of the Township, and shall be consistent with the intent and spirit of this Chapter	The project is consistent with the master plan
In relation to underlying zoning, the proposed development shall not result in an unreasonable negative economic impact upon surrounding properties	The underlying zoning as residential would not result in an unreasonable negative economic impact
The proposed development shall contain at least as much green area and usable open space as would otherwise be required by this Ordinance with respect to the most dominant use in the development	met.
The proposed development shall be under single ownership or control such that there is a single person or entity having responsibility for completing the project in conformity with this Ordinance. This provision shall not prohibit a transfer of ownership or control, upon due notice to the Planning Director of the Township	met

**Staff Recommendation**

Staff recommends approval of the plan.

Attachments:    Application  
                           Site plan  
                           Master plan excerpts  
                           P.U.D. Ordinance amendments



CASCADE CHARTER TOWNSHIP  
**Ordinance #\_ of 2018**  
AN ORDINANCE TO AMEND ORDINANCE #3 OF 2013, THE  
**CENTENNIAL PARK**  
PLANNED UNIT DEVELOPMENT PROJECT

CASCADE CHARTER TOWNSHIP ORDAINS:

Section 1. Amendment to the Centennial Park PUD Ordinance

**Section IV. Purpose.**

The Project occupies approximately 85.1 acres of land. The project is proposed to be developed containing a total of 13 single family residences (or 14 with one two unit building), three (3) 3-unit residential buildings (9 total residential units), a total of 241 apartments including a manager residence, while preserving open space, allowing for the existing catering/banquet/recreational use and allowing as a nonconforming use the existing landscaping/snowplowing/property management use. Much of the open space of the project is being conveyed to the existing Condominium Associations ("Permanent common open space"). In order to complete this action various condominium associations have already agreed to amend their Planned Unit Development legal description in order to incorporate the open space into their projects.

The regulations contained herein are established to define the procedures necessary to insure high quality development in the Project. Additionally, they are designed to achieve integration of this development with adjacent land uses.

**Section VI. Documents and Plans.**

This section shall be amended to read as follows:

C. The Project shall be limited to a maximum of 13 residential sites (or 14 with one two-unit building), three (3) 3-unit residential buildings (9 total residential units) (West Bluffs), and a maximum of 241 apartments, including the manager's residence.

**Section VII. Permitted Uses**

This section shall be amended to read as follows:

- H. West Bluffs at the corner of Thornhills/Tahoe.
  - 1. A condition of approval of the PUD requires that the future bike path be graded when the buildings are built. An additional condition of approval requires the developer to construct 7 foot wide sidewalk along their Tahoe frontage at the time of construction and must be done prior to occupancy of the last unit.

**Section VIII. Design Guidelines, Requirements and Limitations**

This section shall be amended to read as follows:

- A. Maximum Number of Residential Units - The maximum number of single family detached units within the Project shall be limited to 13 units, with the ability to add a two unit condominium at area 10 for a total of 14 units as well as three (3) 3-unit buildings at the corner of Tahoe and Thornhills (West Bluffs). In addition, a total of 241 apartment buildings including a manager residence are permitted.
- C. Setback Requirements- All buildings and structures shall meet the following minimum setback requirements:
  - c. West Bluffs
    - i. Setbacks for the West Bluffs shall be as shown on the site plan dated \_\_\_\_\_
    - ii. Perimeter: 25 feet.
    - iii. Thornhills: 43 feet from the ROW line.
    - iv. Tahoe: 35 feet from the ROW
    - v. Between buildings 20 feet
- D. Minimum Floor area-
  - a. Residential lots and West Bluffs- finished livable area above grade level, exclusive of the garage, decks, porches and breezeways
    - i. 1600 sq ft of finished space within a minimum of 960 sq ft on main floor.
- C. Minimum Parking Requirements
  - c. West Bluffs - Each unit shall have at least two (2) enclosed off-street parking spaces.

**Section 2. West Bluffs**

The following sections of the Ordinance #3 of 2013 shall not apply to West Bluffs: 1. Sections V.B.-D., F, G, 2. Section IX, and 3. Section XIV.

**Section 2. Effective Date**

This PUD Ordinance amendment shall become effective upon publication in the Grand Rapids Press, a newspaper of general circulation within Cascade Charter Township.

**Section 3. Effect**

The Cascade Charter Township Zoning Ordinance, as amended, and the remainder of Ordinance #3 of 2013, as amended, except as otherwise expressly amended herein, shall remain in full force and effect.

The foregoing Ordinance amendment was offered by Board Member \_\_\_\_\_ supported by Board Member \_\_\_\_\_. The roll call vote being as follows:

YEAS:

NAYS:  
ABSENT:  
ABSTAIN:  
ORDINANCE DECLARED ADOPTED.

---

Sue Slater  
Cascade Charter Township Clerk

**CERTIFICATION**

I hereby certify the foregoing to be a true copy of an Ordinance adopted at a Regular Meeting of the Cascade Charter Township Board on the \_\_\_<sup>th</sup> day of \_\_\_\_\_ 2018.

---

Sue Slater  
Cascade Charter Township Clerk



January 10, 2018  
Project No. 170168

Mr. Steve Peterson  
Cascade Charter Township  
2865 Thornhills Avenue, SE  
Grand Rapids, MI 49546-7192

Re: The West Bluffs  
Site Plan Review

Dear Steve:

We have reviewed the site plan for The West Bluffs, prepared by Nederveld, Inc. The current site plan and basis of this review are dated January 9, 2018. The proposed project is a 9-unit residential development with associated site improvements. The site is in the Thornapple River watershed, sub-drainage district Sentinel Point.

## Stormwater and Drainage

### Flood Control

The Cascade Charter Township Storm Water Ordinance (SWO), Section 1.04, states the ordinance shall apply to all development that requires any permit for work which will alter the stormwater drainage characteristics of the development site. The site is located in Stormwater Management Zone A, which requires retention of the 100-year storm event and infiltration to the greatest extent possible. Where soil conditions or other factors do not allow for adequate infiltration, the SWO requires detention of the 25-year storm event with a controlled release and a direct connection for stormwater runoff for the 100-year storm event, or detention of the 100-year storm event. The SWO also requires the first 0.5-inch of stormwater runoff be detained and released over a 24-hour period (Water Quality Control) and the 2-year storm event release rate be limited to 0.05 cfs/acre (Bank Erosion Control).

The proposed stormwater management design is to collect and infiltrate stormwater onsite in an underground infiltration system. The underground system consists of a series of leaching basins, perforate pipe and stone bed. The underground infiltration system is sized for the 100-year storm event runoff from all impervious areas of the site.

A geotechnical investigation and soil borings were performed for the development. Soils encountered at the site generally consisted of sands and silty sands. Two *in situ* infiltration tests were performed at the location of proposed underground stormwater infiltration systems. The test results revealed infiltration rates averaging 50 inches/hour. The existing soils are favorable for stormwater infiltration. A design infiltration rate of half the test result, 25 inches/hour, was used for design calculations.

### Water Quality Control and Bank Erosion Control

The SWO requires the first 0.5 inch of stormwater runoff be detained and infiltrated where conditions permit, or released over a 24-hour period, and the 2-year storm event release rate be limited to 0.05 cfs/acre. The proposed stormwater management design will infiltrate all stormwater runoff up to the 100-year storm event. The proposed design is in accordance with the SWO.

### Stormwater Runoff

The applicant provided stormwater calculations to size the stormwater infiltration system. All stormwater runoff from the impervious areas of the site will discharge to the underground system. Therefore, the site will not see an increase in rate of stormwater leaving the site.

Z:\2017\170168\WORK\CORR\LT\_PETERSON\_WESTBLUFFS\_2018\_0110.DOCX

3315 Arboratum Drive, SE  
Grand Rapids, Michigan 49546

616.575.8694  
www.fitch.com

Fishbeck, Thompson, Carr & Huber, Inc.  
engineers | scientists | architects | constructors



## Drainage Plan

The applicant has submitted drawings, calculations and additional documentation as required in the SWO Section 2.03, Drainage Plan. Please refer to the attached checklist for items and comments on each item. Please note a maintenance agreement is required before construction begins. The agreement should be submitted to the Township for review. The maintenance agreement and plan should include at a minimum cleaning of catch basin sumps.

## Utilities

The development proposes for 300 linear feet of public 8-inch sanitary sewer main. The proposed sanitary sewer main exits the west side of the property in an existing 20-foot easement to the connection point with an existing 8-inch sanitary sewer main. The City of Grand Rapids (City) has reviewed the utility plan and agrees with the proposed design. No new public water main is proposed for the development. Three 2-inch water service lines will connect the buildings to the existing water main in Thornhills Avenue. City permits will be required for the new sanitary sewer and water connections prior to construction.

## Driveway

A new driveway is proposed for the development off Tahoe Drive, 173 feet west of the curb line of Thornhills Drive. The applicant coordinated the drive location with the Kent County Road Commission (KCRC) and the KCRC agrees with the proposed location. A permit from the KCRC will be required prior to construction.

## Soil Erosion and Sedimentation Control

Soil Erosion and Sedimentation Control (SESC) measures are provided on the plan drawings. The applicant has included silt fence along the limits of disturbance and silt sacks in adjacent catch basins. SESC falls under the review and approval of the Kent County Road Commission and a permit is required before construction can begin. The SESC measures indicated on the drawings appear appropriate given the expected work.

## Summary

The proposed stormwater design meets the Township SWO requirements for new developments. The applicant will need to apply for and obtain a number of permits (SESC, KCRC, water and sanitary sewer from the City) prior to construction. We recommend approval of the site plan from an engineering standpoint.

If you have any questions or require additional information, please contact me at 616.464.3786 or [nrtorrey@ftch.com](mailto:nrtorrey@ftch.com).

Sincerely,

FISHBECK, THOMPSON, CARR & HUBER, INC.

A handwritten signature in black ink, appearing to read "Nathan R. Torrey", is positioned above the printed name.

Nathan R. Torrey, PE

jc2

Attachment

By email

cc: Michael L. Berrevoets, PE – FTCH



**Cascade Charter Township**

Storm Water Ordinance, Ordinance 7 of 2002, as amended by Ordinance No. 2 of 2008, 5/14/2008

*Reviewing Engineer Comments are Italicized*

*OK – Received and Acceptable*

*NA – Not Applicable*

*NR – Not Received, Needs Follow-up, See Comments*

**The West Bluffs**

**Drainage Plan Checklist**

- OK (1) Location of the development site and water bodies that will receive storm water runoff  
*Stormwater runoff from the site will be collected and infiltrated in an underground storage system.*
- OK (2) Existing and proposed topography of the development site, including the alignment and boundary of the natural drainage courses, with contours having a maximum interval of one foot (using USGS datum). The information shall be superimposed on the pertinent Kent County soil map  
*Existing and proposed contours have been provided. A geotechnical investigation and soil borings were performed.*
- OK (3) Development tributary area to each point of discharge from the development.  
*The applicant provided drainage areas for sizing of the underground storage system.*
- OK (4) Calculations for the final peak discharge rates  
*The applicant provided calculations for sizing of the stormwater management system.*
- OK (5) Calculations for any facility or structure size and configuration  
*The applicant provided calculations for sizing of the stormwater management system.*
- OK (6) Drawing showing all proposed storm water runoff facilities with existing and final grades  
*The applicant provided plans showing all proposed storm water runoff facilities.*
- OK (7) The sizes and locations of upstream and downstream culverts serving the major drainage routes flowing into and out of the development site. Any significant off-site and on-site drainage outlet restrictions other than culverts should be noted on the drainage map  
*Significant offsite flows were not identified by the applicant.*
- OK (8) An implementation plan for construction and inspection of all storm water runoff facilities necessary to the overall drainage plan, including a schedule of the estimated dates of completing construction of the storm water runoff facilities shown on the plan and an identification of the proposed inspection procedures to ensure that the storm water runoff facilities are constructed in accordance with the approved drainage plan  
*A construction schedule was included on the plans.*
- OK (9) Plan to ensure the effective control of construction site storm water runoff and sediment track-out onto roadways  
*The SESC measures shown on the plan appear appropriate given the expected work. SESC falls under the review and approval of the KCRC and a permit is needed before construction can begin.*



- OK (10) Drawings, profiles, and specifications for the construction of the storm water runoff facilities reasonably necessary to ensure that storm water runoff will be drained, stored, or otherwise controlled in accordance with this ordinance  
*The applicant provided a plan and design details for construction of the onsite drainage system.*
- NR (11) Maintenance agreement, in form and substance acceptable to the Township, for ensuring maintenance of any privately owned storm water runoff facilities. The maintenance agreement shall include the developer's written commitment to provide routine, emergency, and long-term maintenance of the facilities and, in the event that the facilities are not maintained in accordance with the approved drainage plan, the agreement shall authorize the Township to maintain any on-site storm water runoff facility as reasonably necessary, at the developer's expense  
*Maintenance agreement was not provided and is required.*
- OK (12) Name of the engineering firm and the registered professional engineer that designed the drainage plan and that will inspect final construction of the storm water runoff facilities
- NA (13) All design information must be compatible for conversion to Grand Valley Regional Geographic Information System (REGIS)  
*This is a privately owned system and will not be uploaded to REGIS.*
- OK (14) Other information necessary for the Township to verify that the drainage plan complies with the Township's design and performance standards for drains and storm water management systems



PREPARED FOR:  
Alpha Live Systems, LLC  
Jeff Bach

DATE: 08/20/2018

SCALE: AS SHOWN

PROJECT NO.: 17401403

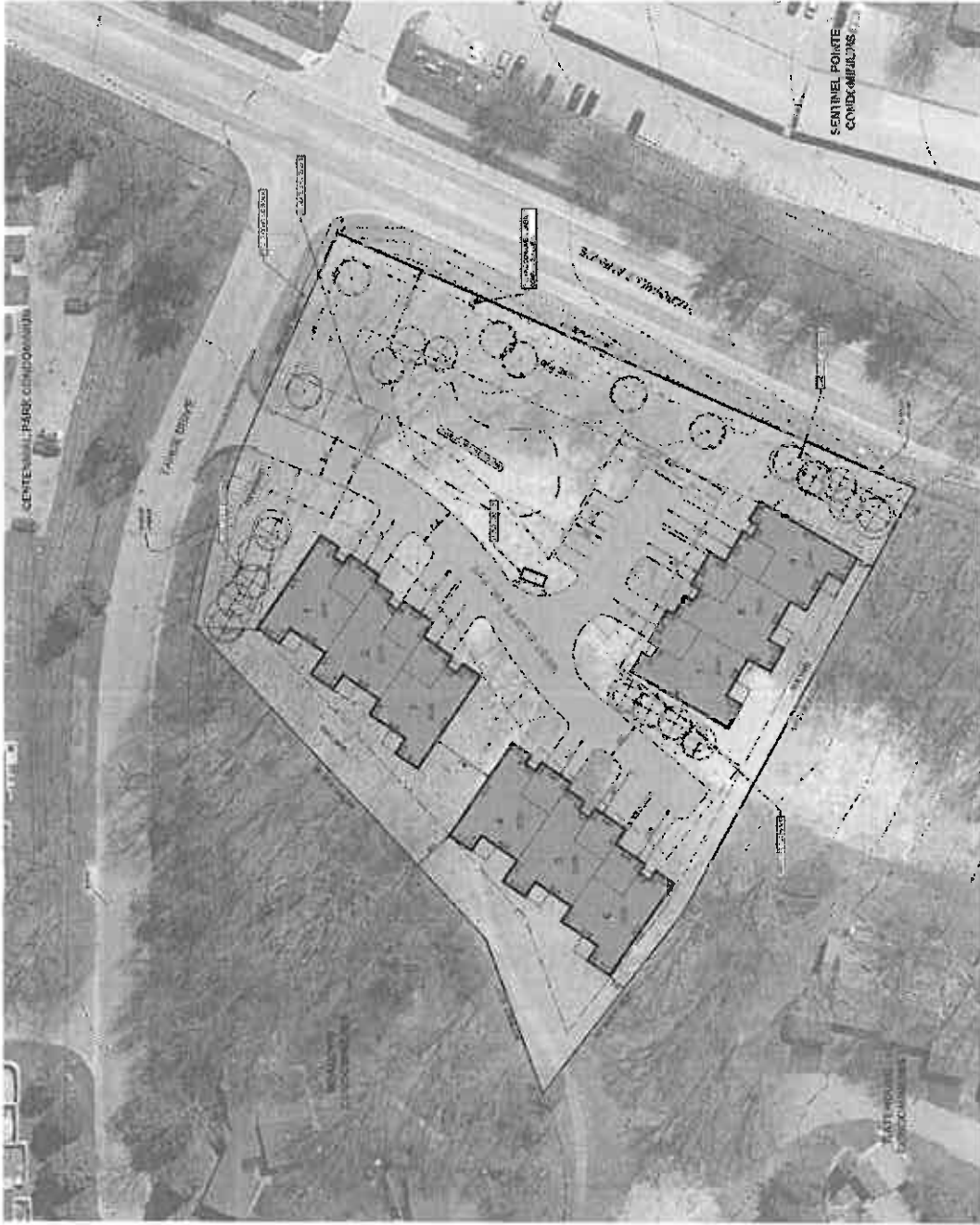
SHEET NO.: C-205

SHEET: 1 OF 1

# THE WEST BLUFFS Site Layout Plan

PART OF THE NW 1/4 OF SECTION 16 AND NE 1/4 OF SECTION 17, T4N, R10W,  
CASSOCK, Kalamazoo County, Michigan

STAMP:



### GENERAL NOTES

1. ALL PROPOSED CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MICHIGAN BUILDING CODE.
2. ALL PROPOSED CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MICHIGAN ZONING ORDINANCE.
3. THE PROPOSED CONSTRUCTION SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE LOCAL GOVERNMENT.
4. THE PROPOSED CONSTRUCTION SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE LOCAL GOVERNMENT.
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13. THE PROPOSED CONSTRUCTION SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE LOCAL GOVERNMENT.

### LEGEND

- 1. PROPOSED BUILDING
- 2. PROPOSED PARKING
- 3. PROPOSED DRIVEWAY
- 4. PROPOSED LANDSCAPING
- 5. PROPOSED UTILITY
- 6. PROPOSED EASEMENT
- 7. PROPOSED FENCE
- 8. PROPOSED RETENTION WALL
- 9. PROPOSED STORMWATER MANAGEMENT STRUCTURE
- 10. PROPOSED UTILITY STRUCTURE
- 11. PROPOSED UTILITY STRUCTURE
- 12. PROPOSED UTILITY STRUCTURE
- 13. PROPOSED UTILITY STRUCTURE



SCALE: 1" = 30'

Experiences... the Difference

**SURVEYOR'S NOTES**

- 1) Verify location of all structures, easements, and other features shown on this plan. If any discrepancy is found, the surveyor shall be notified immediately. The surveyor shall not be responsible for any errors or omissions on this plan.
- 2) Verify location of all structures, easements, and other features shown on this plan. If any discrepancy is found, the surveyor shall be notified immediately. The surveyor shall not be responsible for any errors or omissions on this plan.
- 3) Verify location of all structures, easements, and other features shown on this plan. If any discrepancy is found, the surveyor shall be notified immediately. The surveyor shall not be responsible for any errors or omissions on this plan.
- 4) Verify location of all structures, easements, and other features shown on this plan. If any discrepancy is found, the surveyor shall be notified immediately. The surveyor shall not be responsible for any errors or omissions on this plan.

**STRUCTURE INFORMATION**

NO.	DESCRIPTION	DATE	STATUS
1	10000 15th Street, S.E.	08/11/10	EXISTING
2	10000 15th Street, S.E.	08/11/10	EXISTING
3	10000 15th Street, S.E.	08/11/10	EXISTING
4	10000 15th Street, S.E.	08/11/10	EXISTING
5	10000 15th Street, S.E.	08/11/10	EXISTING
6	10000 15th Street, S.E.	08/11/10	EXISTING
7	10000 15th Street, S.E.	08/11/10	EXISTING
8	10000 15th Street, S.E.	08/11/10	EXISTING
9	10000 15th Street, S.E.	08/11/10	EXISTING
10	10000 15th Street, S.E.	08/11/10	EXISTING

**SOIL BORING NOTES**

The following investigation was conducted by [Name] Consulting. Samples were taken and analyzed as indicated on Schedule B.

BORING NO.	DEPTH (ft)	SOIL TYPE	REMARKS
1	0-10	CLAY	...
2	10-20	SAND	...
3	20-30	CLAY	...
4	30-40	SAND	...
5	40-50	CLAY	...
6	50-60	SAND	...
7	60-70	CLAY	...
8	70-80	SAND	...
9	80-90	CLAY	...
10	90-100	SAND	...

**TITLE INFORMATION**

This is the [Title] of [Project Name] prepared by [Firm Name] for [Client Name].

**TITLE DESCRIPTION**

This is a [Title] of [Project Name] prepared by [Firm Name] for [Client Name].

**SCHEDULE B - SECTION II NOTES**

- 1) [Note 1]
- 2) [Note 2]
- 3) [Note 3]
- 4) [Note 4]



**LEGEND**

Symbol	Description
Circle with cross	Survey Point
Circle with dot	Structure
Circle with slash	Property Line
Circle with asterisk	Corner
Circle with plus	Reference Point
Circle with X	Obstruction
Circle with triangle	Survey Station
Circle with square	Structure
Circle with diamond	Structure
Circle with hexagon	Structure
Circle with octagon	Structure
Circle with star	Structure
Circle with circle	Structure
Circle with square	Structure
Circle with diamond	Structure
Circle with hexagon	Structure
Circle with octagon	Structure
Circle with star	Structure
Circle with circle	Structure

**LOCATION MAP**

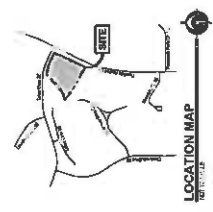
**SCALE 1" = 20'**

**811**  
When you call, we'll be there.

**LANDSCAPE ARCHITECTURE - CIVIL ENGINEERING - EARTH RETENTION - ENVIRONMENTAL CONSULTING - HIGH DULFIELD SCANNING - FORENSIC ENGINEERING - FIRE INVESTIGATION**

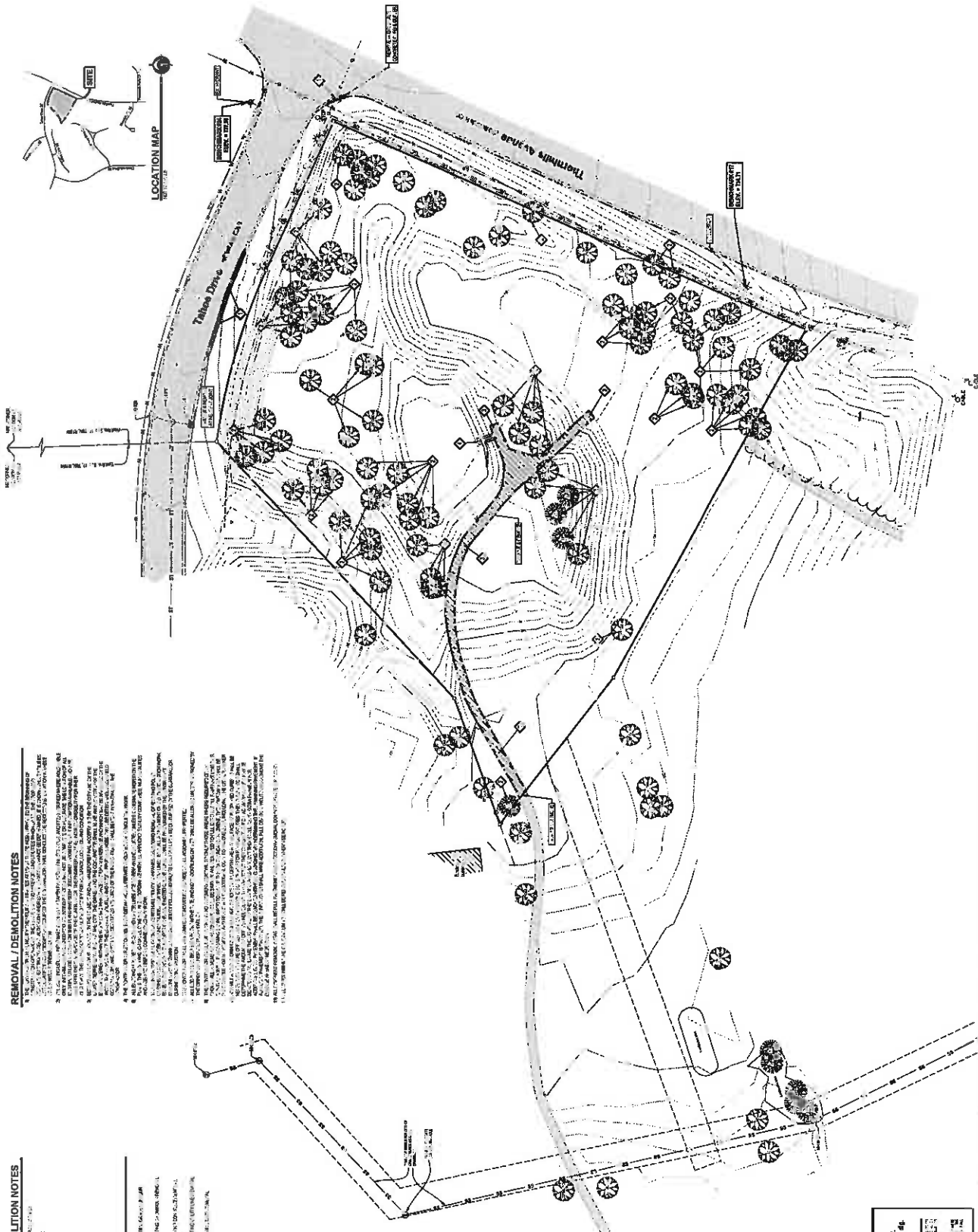
**PROJECT NO.:** 17401403  
**SHEET NO.:** C-201

Experiences... the Difference



**REMOVAL / DEMOLITION NOTES**

1. ALL EXISTING TREES TO BE REMOVED UNLESS OTHERWISE NOTED.
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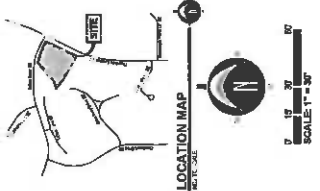


**SCALE: 1" = 20'**

**18**  
 K&S below  
 CALL INTERPRET #4

**Legend:**  
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 20. TREES TO BE REMOVED

Experiences... the Difference



PREPARED FOR:  
 All First States Management  
 Jim Blah  
 6000 Avenida 32 SE  
 Grand Rapids, MI 49503

REVISIONS:

NO.	DATE	DESCRIPTION
1	08/21/13	ISSUED FOR PERMIT

The West Bluffs  
 Site Layout Plan

PART OF THE NORTHEAST 1/4 AND NORTHWEST 1/4 OF SECTION 16, T6N R10W,  
 OSAGE TOWNSHIP, KENT COUNTY, MICHIGAN

3000 Franklin Avenue SE

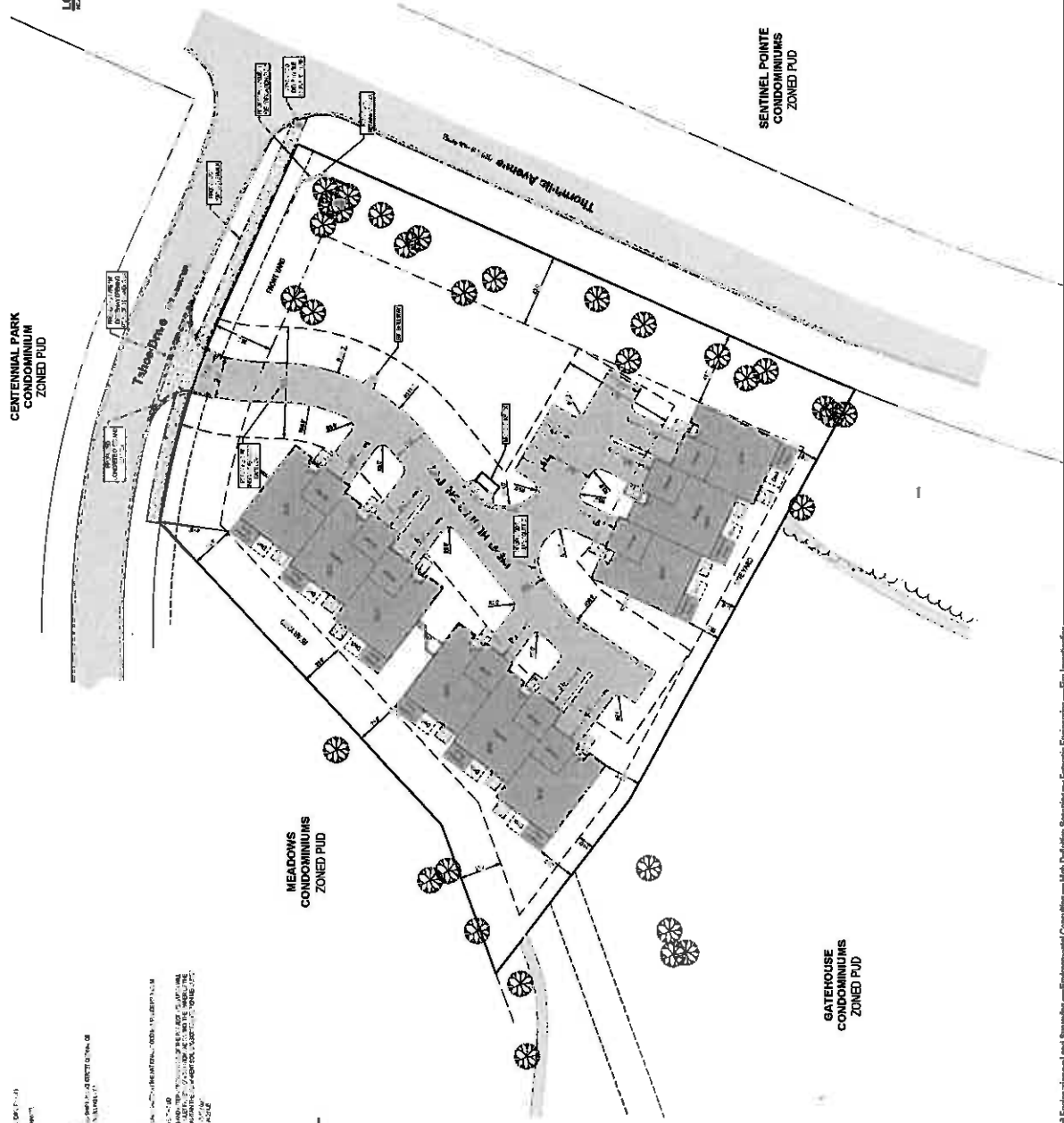
STAMP:

PROJECT NO:  
 17401403  
 SHEET NO:  
**C-205**

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. ALL UTILITIES SHALL BE SHOWN AS SHOWN ON THE ATTACHED UTILITY LOCATIONS MAP.
3. ALL UTILITIES SHALL BE DEPTH MARKED.
4. ALL UTILITIES SHALL BE PROTECTED BY A CONCRETE CURB AND GUTTER.
5. ALL UTILITIES SHALL BE PROTECTED BY A CONCRETE CURB AND GUTTER.
6. ALL UTILITIES SHALL BE PROTECTED BY A CONCRETE CURB AND GUTTER.

LEGEND







**PREPARED FOR:**  
 City of Grand Rapids  
 Department of Public Works  
 3005 Thornhill Avenue SE  
 Grand Rapids, MI 49508

**REVISIONS:**

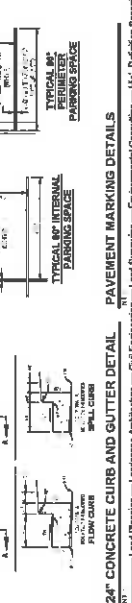
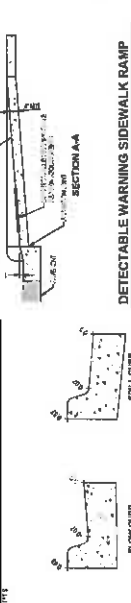
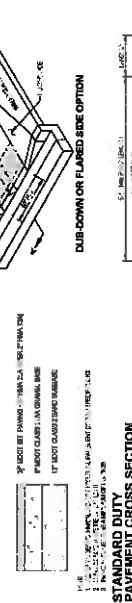
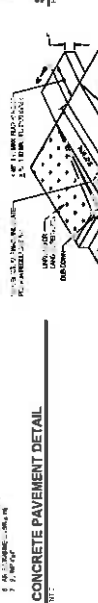
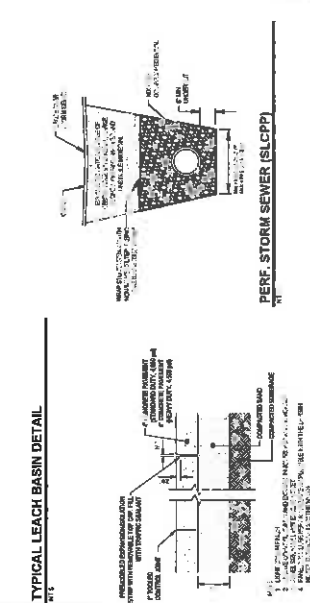
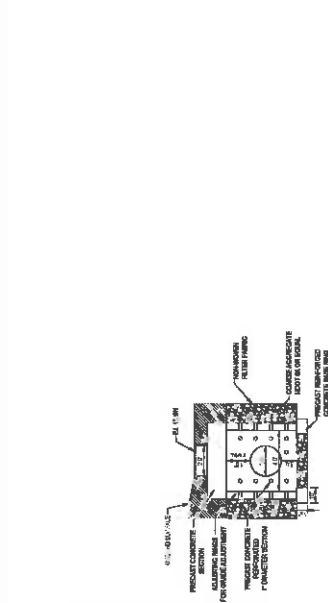
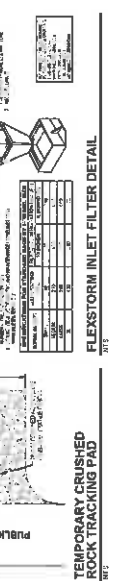
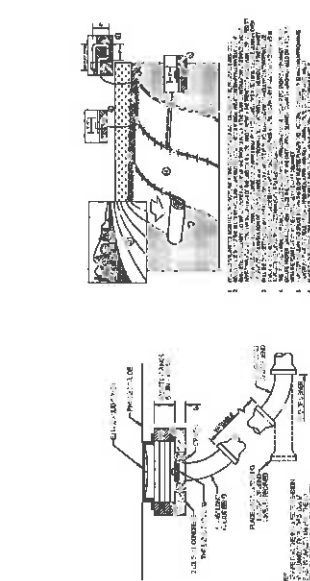
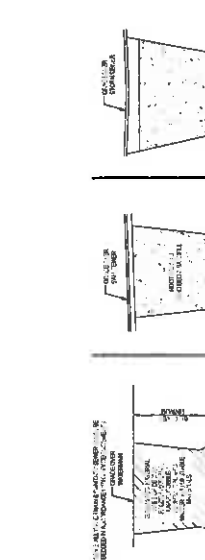
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2	02/10/10	REVISED TO REFLECT PERMIT COMMENTS
3	03/05/10	REVISED TO REFLECT PERMIT COMMENTS
4	04/01/10	REVISED TO REFLECT PERMIT COMMENTS
5	05/01/10	REVISED TO REFLECT PERMIT COMMENTS
6	06/01/10	REVISED TO REFLECT PERMIT COMMENTS
7	07/01/10	REVISED TO REFLECT PERMIT COMMENTS
8	08/01/10	REVISED TO REFLECT PERMIT COMMENTS
9	09/01/10	REVISED TO REFLECT PERMIT COMMENTS
10	10/01/10	REVISED TO REFLECT PERMIT COMMENTS
11	11/01/10	REVISED TO REFLECT PERMIT COMMENTS
12	12/01/10	REVISED TO REFLECT PERMIT COMMENTS

**PROJECT NO.:** 17491403  
**SHEET NO.:** C-500

# The West Bluffs

## Details & Specifications

**STAMP:**



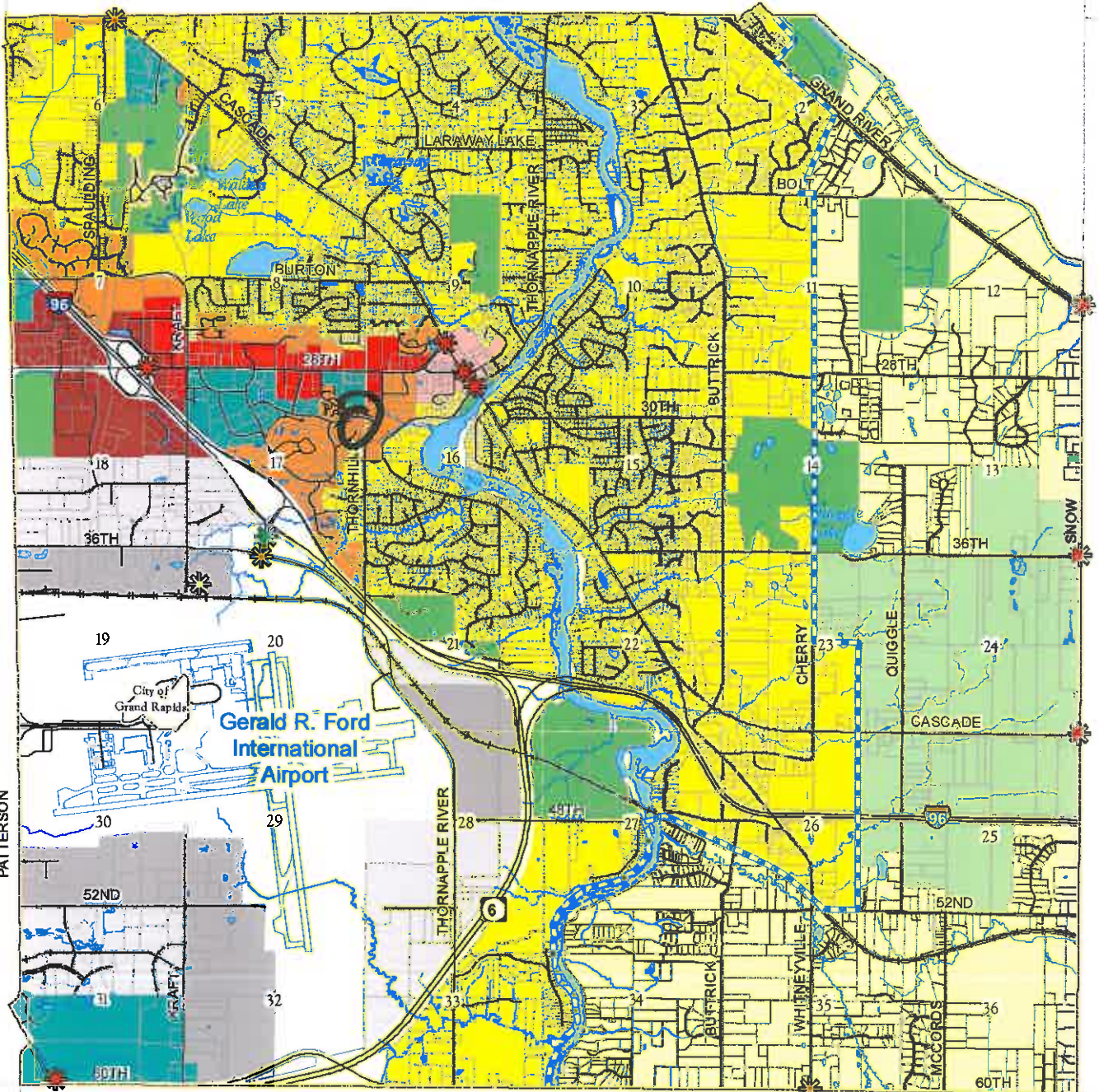


Ada Twp

City of Kentwood

Lowell Twp

Caledonia Twp



# Cascade Charter Township

Kent County, Michigan

## Map 15 Future Land Use

### Legend

- Gateway Feature
- Park 'n' Ride
- Rail Station
- Utility Service Area

- Farmland Preservation
- Rural Residential
- Suburban Residential
- Community Residential
- Village Commercial
- General Commercial
- Highway Commercial
- Mixed Use
- Heavy Industrial
- Light Industrial
- Community Facility / Golf Course



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This map is a representation of a document that is intended for use as a planning tool. It is not intended to be used for legal purposes. It should be used in conjunction with the appropriate zoning ordinance and other applicable laws. It is not intended to be used for any other purpose. It is not intended to be used for any other purpose. It is not intended to be used for any other purpose.



616.224.1800 phone • 616.224.1811 fax  
1st Floor, Ann Arbor MI • Grand Rapids, MI 49503

April 22, 2009

neighborhoods is a primary concern and measures should be taken periodically to assure proper coverage of these services. Private roads should be considered under certain circumstances, such as for the preservation of large stands of trees, or to preserve steep slopes, where drainage and run-off is a concern, or where important natural features have been identified in the Natural Feature Inventory.



#### COMMUNITY RESIDENTIAL

**Description:** The community residential land use designation is intended for attached or detached single family and multi-family housing. A project should be designed and developed to provide attractive, up-scale master planned living environments with amenities such as open spaces, walking paths, street trees, street lighting and attractive architectural style. Buildings and structures should be designed to minimize bulk and massing of attached living units.

**Location:** The community residential land use area primarily serves as a transition from commercial/mixed use and suburban residential uses along 28<sup>th</sup> Street. However, there are two areas where this use is proposed along the south side of Cascade Road north of Burton.

**Desired Uses and Densities:** Uses may include attached and detached residential dwellings, including projects that incorporate a variety of housing options, as well as assisted living and retirement communities. Master-planned retirement communities may also incorporate low-impact commercial uses internal and integrated within the development such as personal service establishments (barber shop or hair salon), post office, financial institution and other necessary uses for the convenience of the residents but not available for use by the general public. Development within the community residential area should include a walking system that connects to any existing or planned non-motorized pathway. The Township desires for the community residential areas to be served by mass transit in the future. Water and sewer must be available for new development or redevelopment in this land use category. Additionally, any natural features should be preserved and protected in projects located in the community residential land use area. Only public roads would be permitted in the community residential land use category. Allowable densities would range between 4-6 dwelling units to the acre.

#### VILLAGE COMMERCIAL

**Description:** This land use designation is intended to foster a pedestrian-scale, local shopping district confined to the parcels currently zoned for commercial use. It is not the intent of this land use plan to expand commercial uses either north or south along Cascade Road.

# THE WEST BLUFFS

## CENTENNIAL PARK PUD AMENDMENT





# CASCADE CHARTER TOWNSHIP

2865 Thornhills SE Grand Rapids, Michigan  
49546-7140

## PLANNING & ZONING APPLICATION

APPLICANT: Name: Alpha Lima Ventures, LLC  
Address: 5000 Kendrick St SE  
City & Zip Code: Grand Rapids, MI 49512  
Telephone: 616.957.3734  
Email Address: jami@ajvinc.com

OWNER: \* (If different from Applicant)  
Name: Meadowood Development Corp  
Address: 550 Kirtland St SW  
City & Zip Code: Grand Rapids, MI 49507  
Telephone: 616.862.8918  
Email Address: chris@pioneerinc.com

NATURE OF THE REQUEST: (Please check the appropriate box or boxes)

Administrative Appeal  
Deferred Parking  
P.U.D. – Site Condominium \*  
Site Plan Review \*  
Special Use Permit  
Zoning Variance

Administrative Site Plan Review  
P.U.D. – Rezoning \*  
Rezoning  
Sign Variance  
Subdivision Plat Review \*  
Other: Amendment to the PUD \*

*\* Requires an initial submission of 5 copies of the completed site plan*

BRIEFLY DESCRIBE YOUR REQUEST:\*\*

We would like an Amendment to the PUD to allow 9 condominiums. See the attached preliminary site plan.

(\*\*Use Attachments if Necessary)

-SEE OTHER SIDE-

**LEGAL DESCRIPTION OF PROPERTY\*\*:**

31018213 PART OF HWY 14 OF SEC W4 PART OF NE 1/4 OF SEC 17 COR AT NE COR OF SEC 17 N 1/4 E 10 224 218 E ALONG E BCG LINE 1027.00 FT TO SLY LINE OF TWICE DRL TO BEG OF THIS 0690

1.71' BELLY ALONG SO SLY LINE 124.00' FT ON A 44.34' FT CHORD CURVE TO RT 42.0' CHORD BEARS S 74.00' LAM 498 E 74.55' TH S AND 05M 805 E ALONG SO SLY LINE 114.07' FT

TO WLY LINE OF THOPIC 815.45' TH S 77.0' 431.225' W ALONG SO WLY LINE 307.34' FT TH 8 WLY ALONG SO WLY LINE 51.84' FT ON A 117.21' FT RAD CURVE TO LT ALONG CHORD BEARS S

220.483 2.9' W 34.23' FT TH N 810 214 458 W 278.41' FT TH N 810 214 458 W 180 02 FT TH N 090 76M 452 E 03.11' FT TH N 470 13M 218 E 242.80' FT TO BEG \* SEC 3 18.4 17 TOW N 10W 2.40 A

SPLIT/COMBINED ON 11/28/2013 FROM 41-18-16-152-002, 41-19-17-281-001, 41-19-17-282-001, 41-19-17-282-004, 41-19-17-251-016, 41-19-17-251-019,

(\*\*Use Attachments if Necessary)

PERMANENT PARCEL (TAX) NUMBER: 41-19 -16-152-003

ADDRESS OF PROPERTY: 3009 Thornhills Ave SE

PRESENT USE OF THE PROPERTY: Vacant land

**NAME(S) & ADDRESS(ES) OF ALL OTHER PERSONS, CORPORATIONS, OR FIRMS HAVING A LEGAL OR EQUITABLE INTEREST IN THE PROPERTY:**

Name(s)	Address(es)
_____	_____
_____	_____

**SIGNATURES**

I (we) the undersigned certify that the information contained on this application form and the required documents attached hereto are to the best of my (our) knowledge true and accurate. I (we) also agree to reimburse the Cascade Charter Township for all costs, including consultant costs, to review this request in a timely manner. I (we) understand that these costs may also include administrative reviews which may occur after the Township has taken action on my (our) request.

I (we) the undersigned also acknowledge that the proposed project does not violate any known property restrictions (i.e. plat restrictions, deed restrictions, covenants, etc.)

Meadowood Development Corp.

Owner - Print or Type Name  
(\*If different from Applicant)

\*  11-8-17  
Owner's Signature & Date  
(\*If different from Applicant)

ALPHA LIMA VENTURES, LLC

Applicant - Print or Type Name

  
Applicant's Signature & Date

PLEASE ATTACH ALL REQUIRED DOCUMENTS NOTED IN THE PROCESS REVIEW SHEET - THANK YOU

**PROJECT LOCATION MAP**  
**THE WEST BLUFFS**



PARCEL DESCRIPTION  
THE WEST BLUFFS

**3009 Thornhills Avenue SE**

**41-19-16-152-003**

411916152003 PART OF NW 1/4 OF SEC 16 & PART OF NE 1/4 OF SEC 17 COM AT NE COR OF SEC OF SEC 17 TH S 1D 52M 23S E ALONG E SEC LINE 1397.60 FT TO SLY LINE OF TAHOE DR & TO BEG OF THIS DESC - TH SELY ALONG SD SLY LINE 124.96 FT ON A 446.38 FT RAD CURVE TO RT /LONG CHORD BEARS S 74D 06M 49S E 124.55 FT/ TH S 66D 05M 50S E ALONG SD SLY LINE 114.07 FT TO WLY LINE OF THORNHILLS AVE TH S 23D 54M 22S W ALONG SD WLY LINE 307.34 FT TH SWLY ALONG SD WLY LINE 51.84 FT ON A 1372.21 FT RAD CURVE TO LT /LONG CHORD BEARS S 22D 49M 26S W 51.83 FT/ TH N 61D 21M 48S W 276.81 FT TH N 52D 20M 29S W 129.62 FT TH N 69D 59M 42S E 93.71 FT TH N 47D 09M 21S E 242.86 FT TO BEG \* SEC'S 16 & 17 T6N R10W 2.40 A. SPLIT/COMBINED ON 11/26/2013 FROM 41-19-16-152-002, 41-19-17-281-001, 41-19-17-282-001, 41-19-17-282-004, 41-19-17-251-016, 41-19-17-251-019;

## PROPERTY OWNERSHIP INFORMATION THE WEST BLUFFS

### Parcel Identification

**Parcel Number:** 41-19-15-152-003

**Government Unit:** 18 - CASCADE TOWNSHIP

**Owner Name One:** MEADOWOOD DEVELOPMENT

**Owner Name Two:**

**Property Address:** 3099 THORNHILLS AVE SE

**Property Classification:** 402 - RESIDENTIAL - VACANT

**School District Number & Name:** 41110 - FOREST HILLS PUBLIC

### **Overview – The West Bluffs PUD Amendment**

Proposed West Bluffs Condominiums located at 3009 Thornhills Avenue SE), is currently approved as an Adult or Child Daycare use as part of the Centennial Park PUD (Cascade Charter Township Ordinance #3 of 2013).

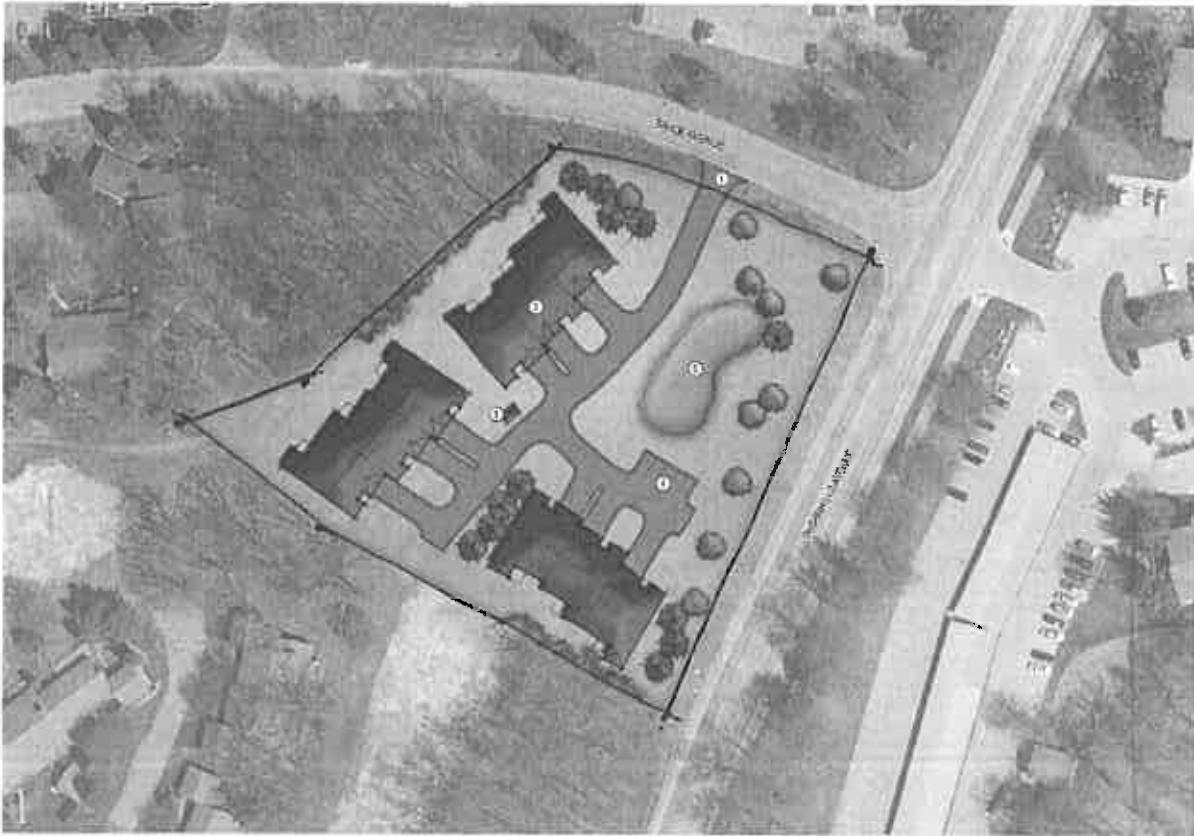
An amendment to the current PUD is being sought to allow for the proposed Residential Condominium. The West Bluffs Condominiums will be comprised of three (3) condominium buildings, each containing three (3) condominium units, for a total of nine (9) condominium units. A significant amount of open space will be preserved (65%). Additionally, condominiums are far more compatible with the surrounding land uses, which are almost exclusively similar condominium developments.

The site will be serviced by public sanitary sewer and public watermain, along with buried electrical service, cable television service, and natural gas service.

The submittal meets the Basic Plan Submittal Requirements per Section 16.05 of the Cascade Charter Township Zoning Ordinance as follows:

- a. Sketch plan of the Planned Unit Development
  - ⇒ A Site Plan Sketch and Color Illustrative Rendering is included in the submittal packet.
- b. A legal description of the property in question;
  - ⇒ A survey depicting the subject property and legal description is included in the submittal packet.
- c. The total number of acres to be included in the project
  - ⇒ The total project area is 2.4 acres.
- d. A statement of the approximate number of residential units and/or the approximate number, type and square footage of non- residential units
  - ⇒ There will be three (3) residential condominium buildings, each containing three (3) condominium units, for a total of nine (9) condominium units. Gross floor area for each condominium will be approximately 1500-1600 sq ft.
- e. The approximate number of acres to be occupied and or devoted to or by each type of use
  - ⇒ The entire project will be devoted to residential use by the condominium owners (2.4 acres)

- f. The known deviations from the Ordinance regulations to be sought;
  - ⇒ The current PUD Ordinance (Cascade Township Ordinance #3 of 2013) calls for this area to be used as an Adult or Child Daycare, so there is a requested deviation of land use (from Daycare to Residential Condominium). While the requested land use is a deviation from the current PUD, the proposed use is in conformance with the Township's Master Plan for the area, which calls for the area to be Community Residential.
  - ⇒ Residential Perimeter Setbacks, as described in Ordinance #3 of 2013 call for 35 ft front yards, 25 ft rear yards, and 10 ft/25 ft side yards; and the perimeter setbacks for the project conform to these requirements.
- g. The number of acres to be preserved as open space or recreation space
  - ⇒ There will be a total of 1.56 acres of open space, or 65% of the site.
- h. All known natural resources and natural features proposed to be preserved, lost and/or replaced
  - ⇒ Perimeter trees will be preserved where grading and proper site drainage allow. There are no sensitive environmental areas, such as wetlands, floodplains, water bodies, or excessively steep slopes.



**LEGEND**

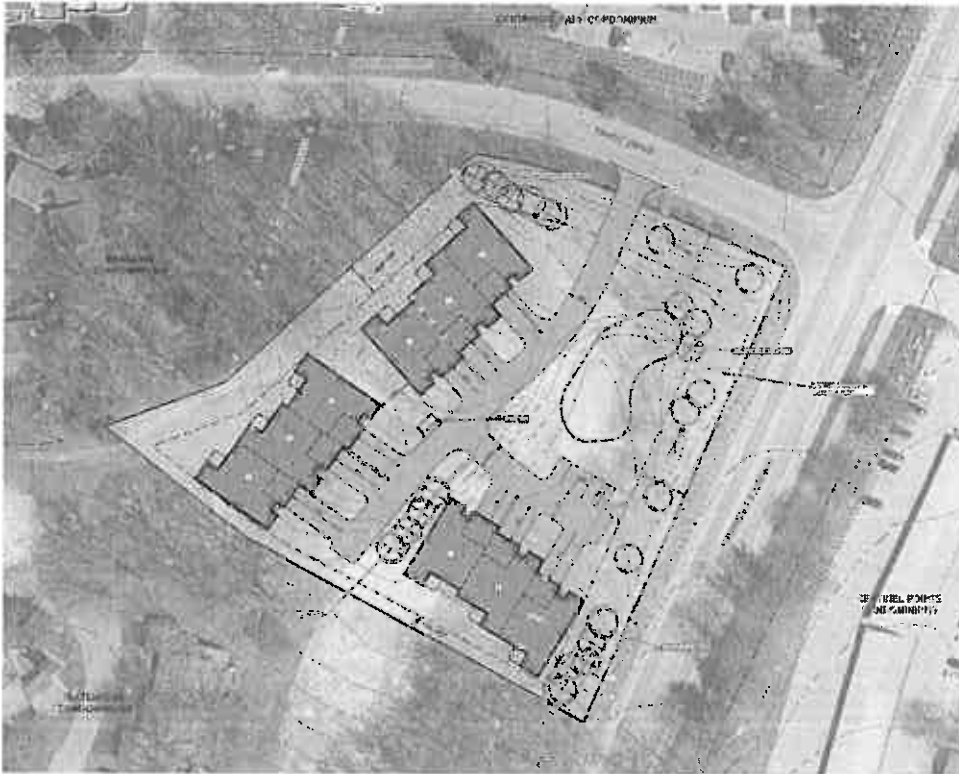
- ① DRIVE
- ② THREE-UNIT CONDOMINIUM BUILDING
- ③ PARKING
- ④ CURB PARKING
- ⑤ STORMWATER DETENTION

**NOTES**

Site L Area	=	3000 (Typical) to 3500 (SS) Grand Total: 42,000 sq. ft.
Total Garage	=	74 sq.
Total Units	=	9
Stormwater Detention Area	=	Approx. 4,500 sq. ft.
Length of Roads	=	Approx. 4.2 ft.

**THE WEST BLUFFS**  
ILLUSTRATIVE PLAN





**GENERAL NOTES**

1. ALL DIMENSIONS ARE IN FEET AND INCHES.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE ROAD UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE DRIVE UNLESS OTHERWISE NOTED.
6. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE SIDEWALK UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE CURB UNLESS OTHERWISE NOTED.
8. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE PROPERTY UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE LOT UNLESS OTHERWISE NOTED.
10. ALL DIMENSIONS ARE TO THE CENTERLINE OF THE BLOCK UNLESS OTHERWISE NOTED.

**CONTROL POINTS AND CORNER POINTS**



**PREPARED FOR:**  
 Able Land Holdings, LLC  
 2775 North  
 Phoenix, AZ 85020  
 Phone: 602.998.1234

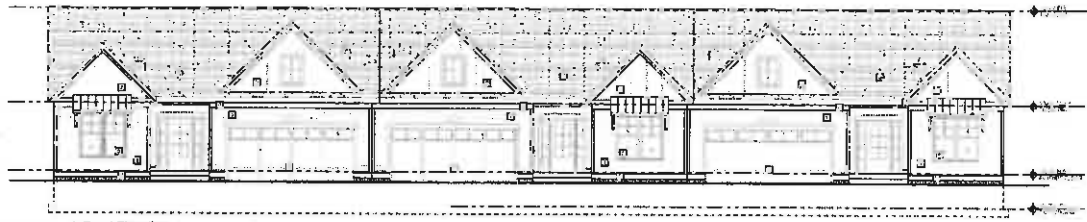
**REVISIONS:**

NO.	DATE	DESCRIPTION

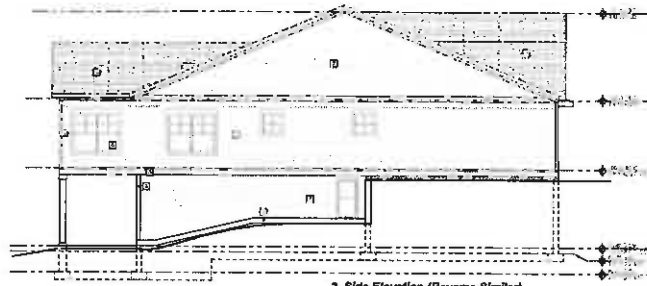
**THE WEST BLUFFS**  
 Site Layout Plan  
 PREPARED FOR: ABLE LAND HOLDINGS, LLC  
 PROJECT NO. 1706488

**STAMP:**

**PROJECT NO:**  
1706488  
**SHEET NO:**  
**C-205**  
**SHEET:** 1 OF 1

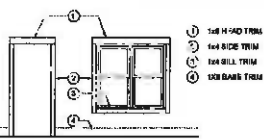


1. Front Elevation

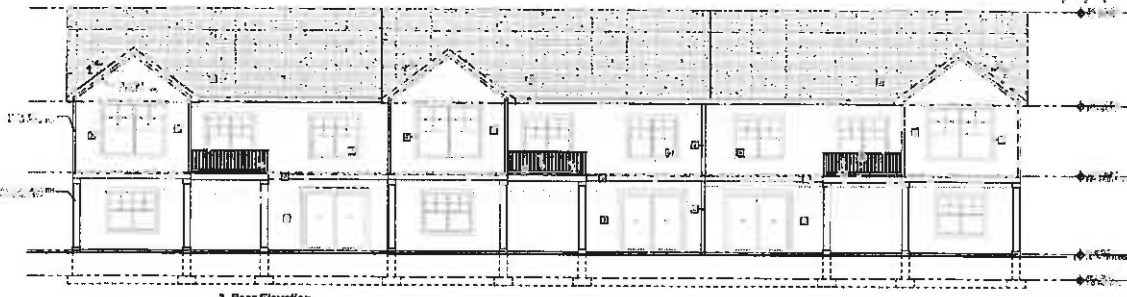


2. Side Elevation (Reverse Similar)

Typical Door & Window Exterior Trim



Label	Material	Manufacturer	Style	Color
1	FIBRE "BULL" LIP SIDING	CELANESE	T&D	T&D
2	FIBRE CEMENT BOARD & BATTEN SIDING	CELANESE	T&D	T&D
3	FIBRE CEMENT TRIM BOARD	CELANESE	T&D	T&D
4	UNPAINTED GARAGE IN DOOR	T&D	UNPAINTED	WHITE
5	ARCHITECTURAL SHUTTERS	ANDERSON	30' YEAR	TAU
6	FRIGGLASS WINDOWS	ANDERSON	100 SERIES	WHITE
7	WALL LAP SIDING	CELANESE	DOUBLE 4"	T&D



3. Rear Elevation



Thompsonville Milling Townhouses North Building  
 Exterior Elevations

Revisions:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Project No. 110111  
 Issue Date 11/01/11  
 Revised 0/0  
 Drawn by 110111

**A4.1**

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## MEMORANDUM

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**To:** Cascade Township Board  
**From:** Steve Peterson, Community Development Director  
**Subject:** Consider participating in multi-jurisdictional Transportation plan for the Four Corners area

---

We put \$30,000 in our budget this year to participate in this transportation study along with Gaines, Caledonia and Kentwood. This project would provide a multi-jurisdictional transportation plan based on complete streets principals. The amount of the study is \$50,000 total. Each community would pay \$12,500. It is possible that we might have some private financing to assist with the cost but the most it would cost each of us is \$12,500

This effort started about a year ago when GVMC convened a small group of participants to start discussing the issues in and around the M-37 and 60<sup>th</sup> St area, otherwise known as the four corners area.

That effort, in part, was to determine if there was a need to reincarnate the four corners group. After some careful study, the four corners communities identified transportation as a topic that the local units of government could combine efforts to study.

Attachment: proposal from MKSK

February 19, 2018

Steven A. Peterson, AICP  
Community Development Director  
Cascade Charter Township  
2865 Thornhills SE  
Grand Rapids, MI 49546

**RE: Four Corners Plan Update**

Dear Mr. Peterson,

Based on my previous work on the Southeast Grand Rapids regional plan and updates, our call and recent discussion, I have prepared the following scope of services to update the "Four Corners Plan". This plan update will focus on a new Multi-Modal Transportation Plan based on Complete Street principles and the various plans/policies of the four communities. For this project, MKSK will team with Sarah Binkowski and CDM Smith to provide traffic engineering and modeling expertise. This packet includes some background information on both of us and our firms.

This proposal is based on the following assumptions:

1. We envision working with two groups. First, representatives from each community (and potentially select others as needed) will form the "Technical Team". We will have monthly regular conference calls with this group with more frequent calls when needed, such as during the project start-up. We would also have two meetings with an "Advisory Committee," organized by the communities and comprised of representatives from the four communities and possibly other stakeholders as well (such as transportation agencies, major employers, some officials, advocacy groups – as with the original Four Corners process).
2. Up to two meetings will be held with the transportation agencies, which may include Kent County Road Commission, MDOT, Grand Valley Metro Council, and The Rapid.
3. Planners from each community will provide briefings with each community's planning commissioners and officials.
4. Communities will provide a GIS-based map and files for our use including information available for just the major roads included in this study including right-of-way widths, number of travel lanes, traffic volumes, non-motorized plans, and planned improvements. If such GIS data is not available from you, we will agree on a base map source, such as a county map or one from the Metro Council.
5. The Metro Council will give us access to their travel demand model to help identify where road diets may be feasible. Our work will assume the land uses in the travel demand model are up-to-date and will not need to be updated or revised. If the schedule permits, the concepts developed through this study could be modeled by the Metro Council as part of their upcoming model update. The fee for this study does not include updates to the travel demand model. CDM Smith

could provide additional model runs or more detailed corridor/intersection analysis as an additional service.

6. The product will be a multi-modal street network map for "Major Streets" that will designate certain streets/roads that are highest priority for bicycle and transit users. These streets will be determined through analysis of which roadways best connect key destinations and have traffic volume to capacity ratios that could accommodate bicycle and transit facilities without a significant increase in vehicular travel times. A typical cross section will be shown for up to five typical street types (number of lanes, overall street width, sidewalk or shared pathway widths, any in-street bikeway facilities, medians, curb lawn, etc.).
7. In addition to the transportation network map, four to five intersection specific concepts will be provided as agreed upon by the communities as representative "typical" intersection designs.
8. Recommendations will be based on best practice manuals such as the Highway Safety Manual, AASHTO, ITE Recommended Practices, and the NACTO Design Guides for Streets, Bikeways, and Transit. This will be supplemented by our team's experience on projects throughout Michigan and beyond.
9. A single point of contact will be identified for the Four Corners communities. This person will coordinate meeting logistics, sharing of information, and processing of our invoices.
10. The target is to have a draft plan by fall 2018 and a final plan by the end of 2018. The community planners would process the plan if intended to be an official amendment to each community's master plan.

### Scope of Services

1. **Background Information.** The team will first send out a list of data needs to the Four Corners communities and the Grand Valley Metro Council. The data to be provided will include:
  - Base mapping suitable for this level of planning
  - Available traffic data – traffic volumes (current and historical), crash histories (type and location), and any recent traffic studies
  - Street information (functional classification, Act 51, and R.O.W. maps)
  - Curb to curb street widths and number of travel lanes
  - List of planned/programmed road and transportation improvements
  - Transit routing and ridership information
  - Future land use plans
  - Existing non-motorized plans and planned nonmotorized improvements
  - Existing sidewalk conditions, including widths and quality
  - The GVMC model and its assumptions.
2. **Project Start-up.** A series of web-calls and one meeting with the Technical Team, to cover the following topics:
  - First a conference call or calls with the Technical Team to discuss the Advisory Committee, meeting logistics, data collected and any gaps, confirm the schedule and targeted meeting dates, etc.
  - A combined briefing with planners from each community on relevant existing plans and ideas that have been discussed.

- Preliminary project goals based on the four community plans and policies (that can be used as alternative evaluation criteria).
  - Initial discussion regarding opportunity areas that could serve as a focus for more detailed evaluation and 4-5 "typical" intersections.
  - On the same day as the meeting with the community representatives, we would look for you to host a meeting with the transportation agencies. During that meeting we would introduce the project and our data findings, and discuss initial concepts.
  - A tour of key roads in the study area could be scheduled for the same day.
3. **Kickoff Event.** The Consultant Team will review and summarize the available data in a summary map and 'snap-shot' report. Maps will be provided for existing and the models forecasted future year conditions, which will include laneage, traffic volumes, crashes, non-motorized facilities, transit service, and land use. This will be presented at a kickoff meeting with the Advisory Committee. At this event we will introduce the project and facilitate a discussion on issues, project goals, outcomes desired, and the corridors and typical intersections where our attention may be focused. We envision this being advertised as a "Summit" which will include information about the study area and also a presentation on relevant best practices for multi-modal transportation design. These will include examples from Michigan but also other northern metro areas like Minneapolis, Seattle, Pittsburgh, Columbus and Chicago.
4. **Alternative Concepts.** Based on the above, the Consultant Team will prepare a map of key corridors and concepts for discussion. This may include:
- Roads or intersections where capacity improvements may be desired or where changes would improve safety and travel for all users
  - Potential mid-block crossings or signals to ease pedestrian and bike crossings (consistent with MDOT guidelines)
  - Potential road diets or reconfigurations where traffic volumes are below acceptable thresholds
  - Bike lanes or protected bikeways and non-motorized trails.
5. **Meeting to Present Concepts.** The Consultant Team will present the concepts and facilitate discussion at the second meeting with the Advisory Committee. This could be a series of meetings on the same day, such as in the morning with the transportation agency staff, late afternoon with the Advisory Committee, and a late afternoon or evening meeting for community staff and officials (could be open to the public). If desired, this evening meeting could include an additional presentation of the best practices Summit presentation from the first Advisory Committee meeting.
6. **Deeper Exploration of the Alternatives.** Based on the discussion on the alternative network concepts, the Consultant Team will refine the network maps, cross sections, and typical intersection concepts. This is where modeling by the GVMC (or CDM Smith as an added service) may be useful to determine any impacts to vehicular level of service.
7. **Prepare Draft Plan.** A document will be prepared and distributed for review by the technical team, with one set of revisions made. This document is expected to be concise and graphically rich, with the bike and transit priority streets shown on the street network maps, the typical cross sections for those types of streets, the typical intersection concepts, and feature some of the best practice support for recommendations. This could include an action plan with priorities and phases of implementation. A presentation will also be provided that each community could use or tailor to their audience. Production of this draft document would end the Consultant Teams's work under this scope but would include one final presentation.

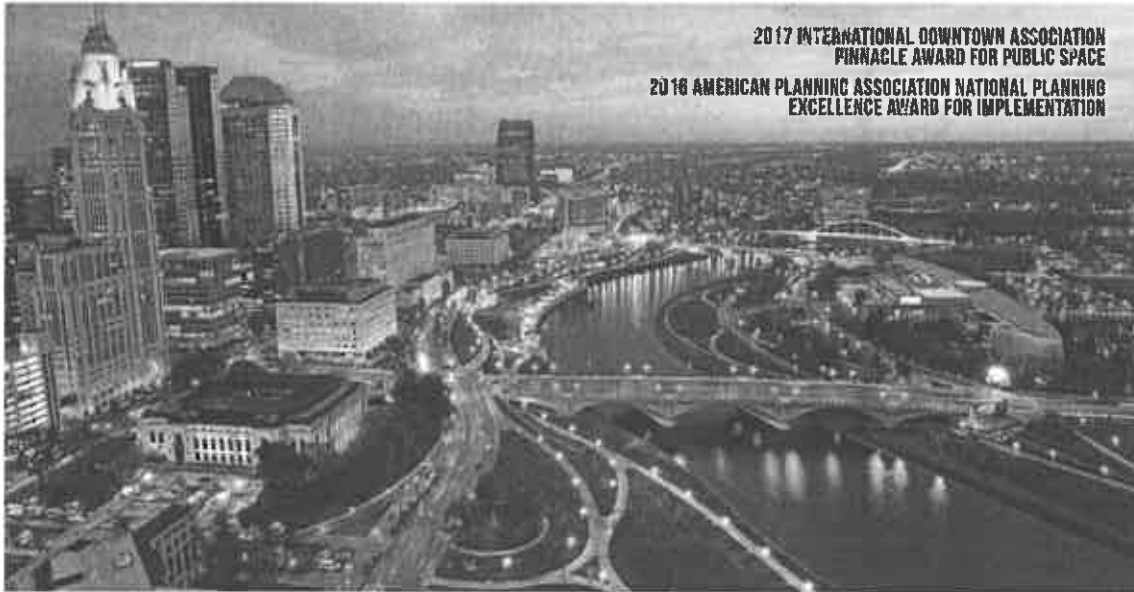
8. **Presentations and Refinements.** The Consultant Team and the community planners will jointly present the Plan to the Advisory Committee (others could be invited as well). Following that event, one set of revisions would be made based on a combined set of comments from the Technical Team.
9. **Additional Presentations.** The community representatives will present the plan and handle the process to amend each community's master plan, if desired. Our team will be available to answer questions that may arise during the process. Participation at additional meetings by the Consultant Team would be an extra service charged to the requesting community.

The fee for the above will be \$50,000 including expenses.

Respectfully submitted,  
MKSK



Brad Strader, AICP, PTP, Principal  
bstrader@mkskstudios.com  
248.867.8942



**WE INVITE YOU TO EXPLORE THE CHARACTER OF OUR WORK—**

Since 1990, MKSK has made an impact on the planning and design fields with creative solutions to a diversity of design challenges. A combination of creative problem solving and technical expertise has resulted in hundreds of built projects. With a studio of gifted professionals and a guiding principle of design excellence, MKSK strives to raise the standard of land planning, landscape architecture and urban design services.

The firm's success is based on a team of design and planning professionals driven to push each project to a higher level of quality. With backgrounds in landscape architecture, land use and transportation planning, and urban design the staff brings a broad range of skills, creativity and experience to each project. From concept to construction detailing, strategic planning to implementation, an emphasis on innovation is the hallmark of our design studios.

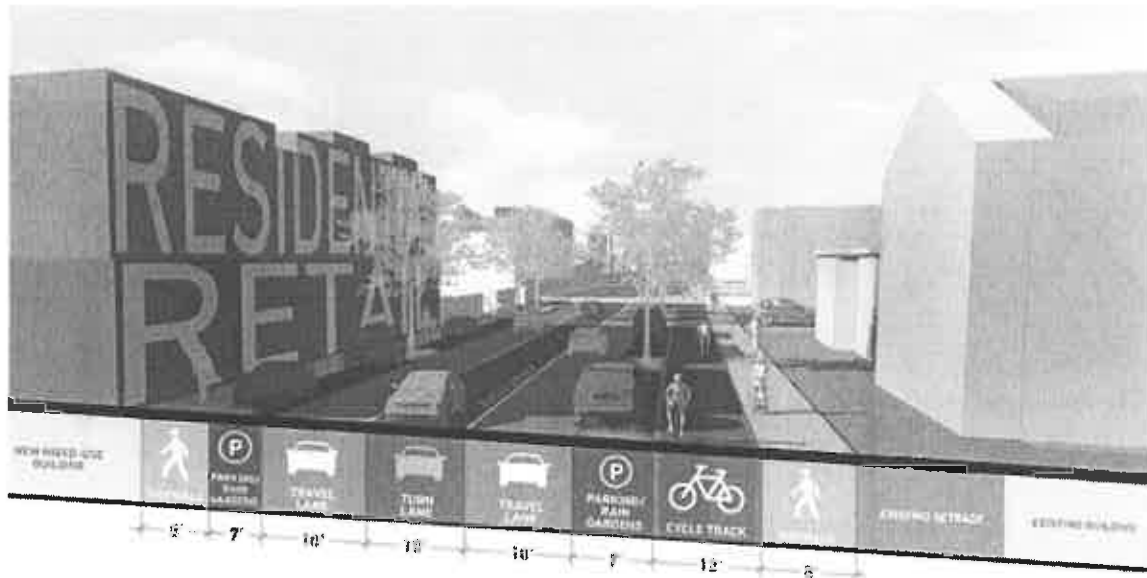
The diversity of projects and the consistent high-quality design expertise has created a growing sphere of recognition and respect for MKSK in the industry. From urban parks to environmental parks and from campus planning to

community planning, the work of MKSK has generated a network of satisfied clients and users throughout the region, the country and abroad. With the goal of meeting new design challenges with fresh ideas, MKSK is at the forefront of the profession, leaving as a legacy the beauty of its craft on the land.

For the Detroit Sustainability Action Plan, MKSK can bring the following professional services:

- As we are leading the current Downtown Mobility Plan, we can assist with the development of sustainable transportation goals (transit, multimodal transportation);
- Graphics support for community engagement efforts;
- Community engagement around transportation, green infrastructure, parks, and green space;
- Assessing gaps in other city planning efforts and providing strategies on how to integrate sustainability goals into current and future plans and processes.

DETROIT	248.867.8942
COLUMBUS	614.621.2796
COVINGTON	859.957.0957
GREENVILLE	864.626.5715
INDIANAPOLIS	317.423.9600
LEXINGTON	859.303.5727
WEST LAFAYETTE	765.250.9209



The street is the most common form of public space in Midwestern cities and neighborhoods. MKSK is a leader in capturing the full value of streets for all users and uses, not just the automobile. Multi-modal design that treats streets as true places to spend time is central to our street design philosophy. We know that complete streets are the most equitable for the end user and the most successful in driving economic development and private investment along a street. When travel speeds slow down, streets not only become dramatically safer, the adjacent development realizes higher rental rates, better sales per square foot, and experiences less vacancy. When streets are safer, designed and inviting for pedestrians and bicyclists, more people walk and bike, improving community health and accessibility for everyone.

We also recognize that desired design for all types of users cannot always fit into the available space so we use a "Complete Network" perspective to identify priority networks

for pedestrians, bicyclists, transit, trucks and automobiles. We also promote transportation design that complements the desired character of the built and natural environment.

In our approach to complete streets planning and design, MKSK provides the following services:

- Multi-modal street and streetscape design
- Tactical street calming and activation strategies
- Bike and pedestrian master planning
- Street safety improvement design
- Transit station/stop planning
- Access management strategies
- Bike infrastructure and trail master planning
- Parking management studies
- Street and right-of-way design manuals
- Form-Based Codes
- Transportation Demand Management Strategies
- Smart Cities considerations

## BRAD STRADER, AICP, PTP

Senior Associate, Role: Project Team Leader

**MKSK**

**BRAD ADVOCATES LINKING LAND USE WITH MULTI-MODAL TRANSPORTATION AND DESIGN TO CREATE VIBRANT PLACES.**

Brad has more than 33 years experience in comprehensive and downtown plans, multi-modal transportation, and development regulations. His experience with transportation and corridor planning, complete streets, land use and parking strategies reaches to communities throughout Michigan, Ohio, Indiana and other states. Brad has been involved in dozens of downtown and district plans, as the project manager or for expertise on transportation, parking, codes and implementation. He is a frequent lecturer on planning and transportation and placemaking topics at state, regional, and national conferences and training webinars and has presented several national seminars on innovative linkages between land use & transportation for ITE and AICP.

### PROJECT EXPERIENCE

#### East Grand Rapids Master Plan

Birmingham, Michigan

#### CATA Shaping the Avenue

Lansing, Michigan

#### Downtown Streetscape/Circulation Plan

Midland, Michigan

#### Auburn Road Corridor Plan

Rochester Hills, Michigan

#### Auburn Avenue Street Redesign

Cincinnati, Ohio

#### Southeast RTA Michigan Avenue TOD Corridor Analysis

Detroit to Ann Arbor and Metro Airport, Michigan

#### Transportation Demand Management Study

Traverse City, Michigan

#### Downtown Transportation Plan

Findlay, Ohio

#### Experience Prior to MKSK:

#### South State Street Design Alternatives

Ann Arbor, Michigan

#### Downtown Parking Study and Placemaking for the DDA

Berkley, Michigan

### EDUCATION

Michigan State University,

B.S., with Honors, in Urban Planning, 1983

### REGISTRATION

Fellow, Institute of Transportation Engineers (FITE)

ITE Professional Transportation Planner (PTP)

American Institute of Certified Planners

### PROFESSIONAL AFFILIATIONS AND TRAINING INSTRUCTOR

American Institute of Certified Planners; Transportation Research Board (TRB) Access Management Committee and Travel Demand Management Committee; ITE Transportation Planning Council Executive Committee Past Chair; ITE Complete Streets Council; MDOT M2D2 Advisory Committee and Task Force Instructor; MDOT Access Management Instructor; WisDOT Access Management Training Program; MI Complete Streets Coalition Training Program; MEDC Redevelopment Ready Community Program Instructor



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# LAUREN CARDONI

Urban Planner / Transportation Planner

# MKSK

LAUREN COMBINES EXPERIENCE IN ADVOCACY AND OUTREACH WITH A PASSION FOR TRANSFORMING STREETS INTO GREAT PLACES TO HELP COMMUNITIES BUILD CONSENSUS AROUND THEIR TRANSPORTATION FUTURES.

Lauren has a history of working on projects of various scales, managing multi-disciplinary teams to develop solutions unique to each place. She draws from a background in urban design, transportation planning, and landscape architecture to translate conceptual ideas and technical data into compelling and relatable materials. Prior to joining MKSK Lauren worked in transportation planning on a national level, gaining experience working with communities of all different sizes and contexts and helping them to create more sustainable transportation systems.

## PROJECT EXPERIENCE

### East Grand Rapids Master Plan

East Grand Rapids, Michigan

### Hillcrest Regional Multimodal Plan

South Euclid, Lyndhurst and Mayfield Heights, Ohio

### Monroe Downtown Plan

Monroe, Michigan

### I-94/M-43 Planning and Environmental Linages Study

Kalamazoo, Michigan

### CATA Shaping the Avenue

Lansing, Michigan

### Experience Prior to MKSK:

### Connect Columbus Multimodal Plan

Columbus, Ohio

### South First Street Complete Street Study

Miami, Florida

### Williams Drive Corridor Transportation Study

Georgetown, Texas

### Move Louisville Strategic Multimodal Transportation Plan

Louisville, Kentucky

### Cleveland Public Square Transportation Study,

### Ontario Street Redesign

Cleveland, Ohio

### Rock Creek East II Livability Study

Washington, D.C.

## EDUCATION

Georgia Institute of Technology,

Master of City and Regional Planning, 2013

University of Georgia,

Bachelor of Landscape Architecture, 2011

## CERTIFICATION

LEED Green Associate

## PROFESSIONAL AFFILIATIONS

Association of Pedestrian and Bicycle Professionals

## BOARDS, COMMISSIONS & PROFESSIONAL ACTIVITIES

Open Streets Columbus



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# SHAPING THE AVENUE

Lansing, Michigan

**MKSK**



## INTERACTIVE STREETSCAPE DESIGN HELPS SHAPE ONE OF THE STATE'S MOST ICONIC AVENUES

Developed from years of community feedback and visioning of Michigan and Grand River avenues, Shaping the Avenue is a partnership between the municipalities of Lansing, Lansing Township, East Lansing, Meridian Township, the transit agency and other organizations. With a Federal Transit Administration TOD Pilot Grant, a form-based code was crafted to unify the character of future private development and public street design along the Avenue to create a more vibrant, pedestrian-friendly and transit-oriented corridor.

MKSK was part of a multi-firm project team to develop the form-based code, street, and streetscape design options. MKSK coordinated and facilitated a series of hands-on public workshops with a different focus for each community. Using an interactive street design activity developed by MKSK,

community stakeholders and the public had the opportunity share their feedback on street design options following an orientation on 'best practices.' Participants could support the illustrated alternatives or build their own street design from scratch using streetscape components such as various sidewalk designs, protected bike lanes, medians, turn lanes, amenity zones, on-street parking, and transit lanes.

MKSK also assisted with development of form-based code regulations to supplement or replace the current conventional zoning ordinance. Once adopted, the form-based code will provide each municipality with street design guidelines specifically tailored to the vision and needs of each community, while unifying the look and feel of future development along the Avenue from the state capitol through East Lansing to the Meridian Mall for years to come.

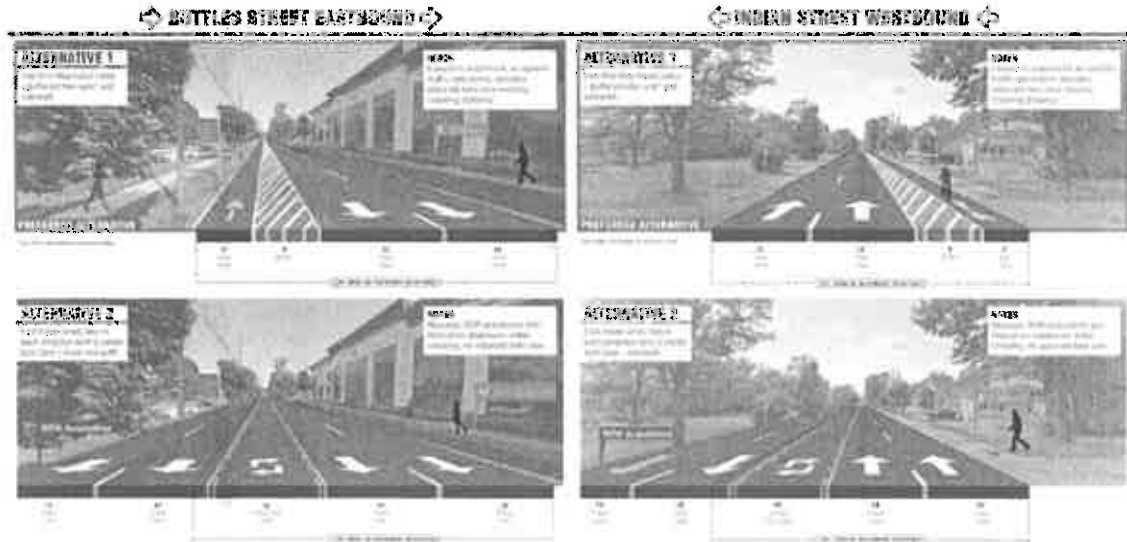
<b>CLIENT</b>	Capital Area Transportation Authority (CATA)
<b>CONTACT</b>	Bradley T. Funkhouser, Deputy CEO
<b>PHONE</b>	517.394.1100
<b>YEAR</b>	2017

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# US-10 CORRIDOR PLAN

Midland, Michigan

MKSK



## A ROAD DIET AND MULTI-MODAL SOLUTIONS FOR A ONE-WAY, SIX LANE STATE ROUTE CORRIDOR

MKSK was part of the team coordinating with the Michigan Department of Transportation for a road diet on a state route, traveling through the City of Midland on the periphery of the downtown. The corridor is currently a one-way six lane loop divided by a median. The goal of the alternatives analysis was to reduce the lane numbers and width, reduce pedestrian crossing distance, include additional pedestrian facilities, and add bicycle facilities that connect to the downtown streetscape circulation. The recommendation is for a road diet and addition of a shared-use path with advanced bike box intersection treatments heading into the downtown core.

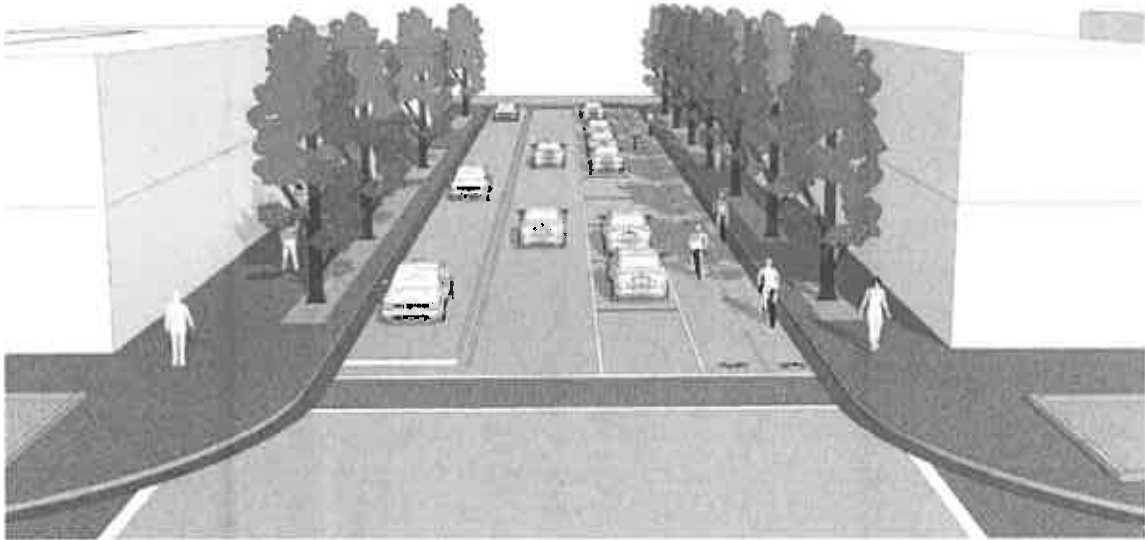
CLIENT Michigan Department of Transportation  
CONTACT Brad Kaye, City of Midland, Manager  
PHONE 989.837.3301  
YEAR 2017

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# MIDLAND DOWNTOWN MULTIMODAL PLAN

Midland, Michigan

**MKSK**



## STREETScape ENHANCEMENTS IMPROVE CONNECTIVITY BETWEEN DOWNTOWN AND THE RIVERFRONT

MKSK was part of the team to develop a new downtown streetscape plan and circulation plan. Downtown Midland serves as an entertainment and employment hub for the greater Midland Area. The streetscape plan includes many best practices including curbless festival blocks, removal of traffic lights, social public gathering hubs, separated bicycle facilities, and green sustainable infrastructure.

The plan serves as a community connector linking the riverfront, Dow Diamond and Dow headquarters to the downtown. Wider sidewalks allow for better use of the sidewalks for dining and retail sales in the summer and snow storage in winter. The process included an interactive

community engagement process in which the design team was able to fully engage with the community on many levels. It included stakeholder meetings with seniors, schools, advocacy groups and business leaders, design workshops, pop-up sessions, and community surveys.

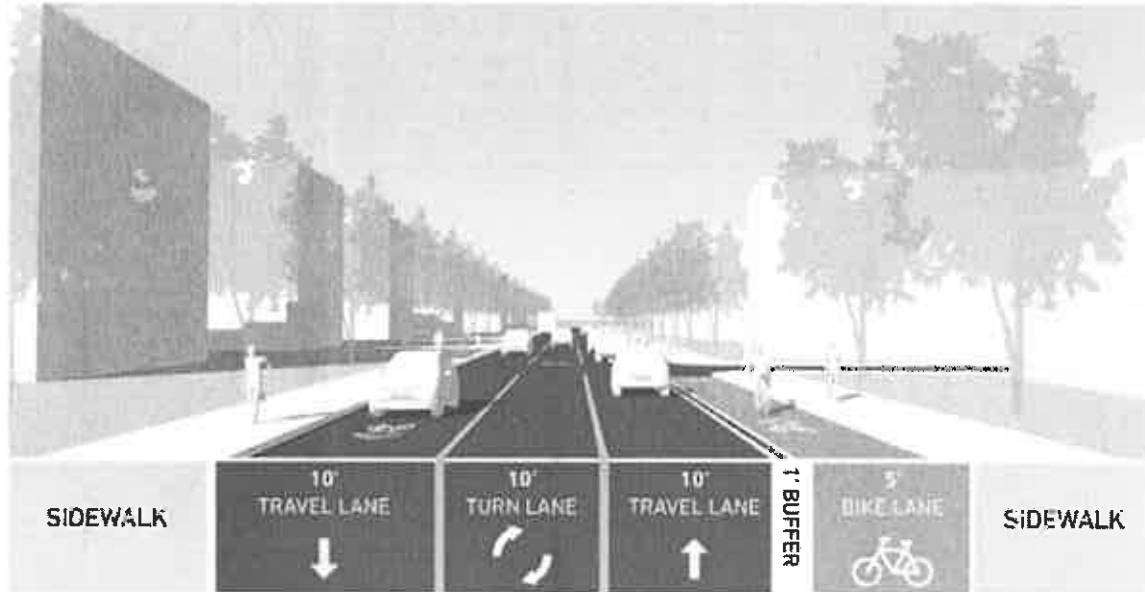
**CLIENT** City of Midland  
**CONTACT** Brad Kaye, City Manager  
**PHONE** 989.837.3301  
**YEAR** 2016

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# AUBURN AVENUE CORRIDOR PLAN

Cincinnati, Ohio

**MKSK**



## COMPLETE STREET STRATEGY TO SUPPORT EXISTING USES AND FUTURE DEVELOPMENT PATTERNS

The Auburn Avenue corridor study assesses how Auburn Avenue can better serve the local neighborhood and safely transport emergency vehicles into and out of the hospital. The corridor connects the redeveloping Over-The-Rhine neighborhood with the University of Cincinnati campus. With the recent Christ Hospital expansion and plans for additional expansion, the MKSK team was tasked with assisting in the future visioning of the corridor to better serve the community and local businesses. The study looked at development patterns, future development sites, and how they can better interact with the right-of-way.

Working with Hospital representatives, City staff, local residents, businesses and community groups the team envisioned the roadway as a community 'spine'—a place for people to interact, socialize and engage with the community. The plan calls for rightsizing the lane widths, adding bike lanes, widening sidewalks and maintaining a left turn lane to assist with emergency vehicle operations.

CLIENT City of Cincinnati  
CONTACT Carol Gibbs, Mt. Auburn Comm. Dev. Corp.  
EMAIL CSBGibbs@aol.com  
YEAR 2016

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# BIKE NEW ALBANY MASTER PLAN

New Albany, Ohio



## BIKE PLAN ADDRESSES ON AND OFF-STREET SYSTEMS FOR A BURGEONING CYCLING HUB COMMUNITY

The popularity of cycling as a means of exercise, transportation, and recreational activity has been growing exponentially nationwide. Within the city of New Albany, this has led to a growing cycling community having an increased presence on the City's road corridors and leisure trail system. As part of the City's Transportation component of its 2014 Strategic Plan, New Albany, along with MKSK, identified that while the City had traditionally successfully planned for cycling along its trail system, a bicycle master planning study was needed to understand how to safely and comfortably accommodate the growing number of cyclists along its road corridors. This led to the Bike New Albany master plan.

The Bike New Albany plan studied national trends and best practices pertaining to bicycle planning, and identified how these could be applied to New Albany in order to a complete bicycle network that will allow cyclists of all skill-levels to easily, intuitively, and safely navigate around the City. By utilizing both on-street and off-street infrastructure, and supporting these elements with bicycle amenities, signage and wayfinding, and policies to increase the community's awareness of cycling, the City can create a bicycle-friendly community. Key components of the plan include: 1) Master Plan to guide the development of on-street bicycle facilities, 2) Proposed 5-mile cycle track loop that encourages increased ridership and creates important community connections, 3) The incorporation of bicycle amenities at strategically identified cycling hubs throughout the City, 4) Education and policy initiatives to fully integrate into the New Albany community.

### Outcomes:

- 2014 OCASLA Honor Award

**CLIENT** City of New Albany  
**CONTACT** Adrienne Joly, Deputy Dir. of Comm. Dev.  
**PHONE** 614.939.2254  
**YEAR** 2014

# LEXINGTON STREETScape IMPLEMENTATION

Lexington, Kentucky

**MKSK**



## COORDINATED FUNDING AND COOPERATION ACROSS AGENCIES ALLOW FOR UNIQUE RESULTS

Phase One of Lexington's Streetscape Master Plan involved major downtown roadway corridors, focusing on streetscape improvements and green infrastructure. Also included was the renovation of Cheapside Park and construction of the new Market Pavilion, a covered performance, outdoor dining, and event space.

Completed on a rigorous schedule, the project involved state and federal funding as well as substantial coordination between the local client, KY Department of Highways, and Federal Highway Administration (FHWA). Construction administration services included consultation with local, state, and federal officials responsible for evaluation of an

FHWA "Right-to-Experiment" associated with a "Floating Bike Lane" along one of the corridors.

Traffic modeling and roadway modifications were part of a "complete street" initiative that includes new bicycle facilities, bus and trolley stops, on-street parking, and loading spaces. The design of underground utilities, curb alignments, and signal infrastructure supports the future conversion of one-way streets to two-way while reducing the overall width of pavement cross-sections.

### Outcomes:

- 2011 ACEC Engineering Excellence Honor Award
- 2011 ACEC-KY Engineering Excellence Honor Grand Award
- 2010 OCASLA Honor Award
- 2010 AIA Cincinnati COTE Sustainability Award

**CLIENT** Lexington-Fayette Urban County Government  
**CONTACT** Renee Jackson  
Downtown Lexington Corp. (formerly)  
**PHONE** 859.361.3460  
**YEAR** 2011

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# LIVINGSTON AND PARSONS AVENUE STREETSCAPES

Columbus, Ohio

**MKSK**



## **SPECIAL CONSTRUCTION FEATURES AND DECORATIVE ELEMENTS REVITALIZE A BUSY, AGING CORRIDOR**

The Livingston Avenue and Parsons Avenue corridors connect one of Columbus' oldest neighborhoods and the Nationwide Children's Hospital district to downtown Columbus. As part of a large-scale expansion plan for Nationwide Children's Hospital and overall improvements to the neighborhood, 1.5 miles of roadway and streetscape along these corridors have been reconstructed.

This wholesale reconstruction includes bioretention cells, planted medians, street tree plantings, decorative lighting, traffic mast arms, and continuous "treeways". Street furniture includes bike racks, benches, trash receptacles, news boxes, and bus shelters.

Special construction features were used to improve the long-term success of street trees and to achieve green infrastructure objectives. Bioretention cells, used to detain and treat street and sidewalk stormwater run-off, were carefully designed with highly permeable soils to minimize their depth from the sidewalk elevation. Stormwater in these cells is used as passive irrigation, and because of their open-bottom design the cells promote subsurface infiltration. To maximize soil volume for street trees, suspended sidewalk pavement and a continuous soil treeway at the back of the roadway curbing is used in combination with structural soil underneath sidewalks.

<b>CLIENT</b>	City of Columbus
<b>CONTACT</b>	Christina Parady
<b>PHONE</b>	614.645.5463
<b>YEAR</b>	2011

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# Sarah E. Binkowski, PE, PTOE

## Transportation Engineer

Sarah Binkowski has over twenty years of experience in the field of transportation engineering, including transportation planning, transit planning, travel demand forecasting, traffic operations analysis, and traffic signal optimization. She has worked on a range of transportation and transit studies, from small traffic impact studies, to freeway and transit environmental impact statements to large scale County transportation plans. Her background is diverse in that she has a solid transportation engineering background combined with travel forecasting experience leading to her transportation planning expertise

**Project Manager, Downtown Kalamazoo Planning and Environmental Linkages Study, Kalamazoo, Michigan.** The purpose of this Planning and Environmental Linkage (PEL) study is to evaluate various transportation options within Downtown Kalamazoo, as well as Stadium Drive. The outcome will define a set of recommendations that will improve safety and operations for all users as well as provide a quality integrated transportation network for economic development and quality of life.

**Project Manager, City of Petoskey On-Call Traffic Engineering, Petoskey, Michigan.** Project Manager tasked with on-call traffic engineering tasks for the City of Petoskey, Michigan. On-call tasks have included reviewing sidewalk/roadway recommendations near Petoskey Plastics, reviewing the Atkins Road extension in southern Petoskey to provide additional east-west access from Atkins Road to Sheridan Street and the Northern Central Michigan College and reviewing roadway and signal placements along US-31.

**Deputy Project Manager, Pittsburgh BRT Project, Pittsburgh, Pennsylvania.** The first task for this project for the Port Authority of Allegheny Country is to provide Program Management assistance for the development of the first Bus Rapid Transit within the City of Pittsburgh, connecting Downtown to Oakland through Uptown. The second task will be to conduct the preliminary engineering for the BRT route and the third task will be to provide any additional assistance to the PAAC.

### Prior to CDM Smith

**Project Manager, Downtown Grand Rapids Access and Circulation Study, Grand Rapids, Michigan.** Project Manager for the evaluation of access and circulation primarily of Michigan Street and I-196 within Downtown Grand Rapids between US-131 and Fuller Avenue. This study reviewed existing and future conditions and developed and evaluate feasible solutions within the study area to reduce congestion along Michigan Street and the interchange at I-196 and College Avenue.

**Lead Transportation Engineer, Woodward Avenue Complete Streets Study, Oakland and Wayne Counties, Michigan.** Sarah was tasked with reviewing the traffic operations for the Complete Streets project. Her responsibilities include attending public meetings and providing feedback on changes to the cross-sections based on recommendations. Sarah also developed future year traffic volumes for the project and reviewed Synchro models.

### Education

M.S. Civil Engineering, Michigan State University, East Lansing, Michigan, 1998

B.S. Civil Engineering, Michigan State University, East Lansing, Michigan, 1995

### Registration

Professional Engineer, Michigan, 2003

Professional Transportation Operations Engineer, 2003

### Trainings

National Highway Institute (NHI) Road Safety Audit Training

NHI Designing Streets for Pedestrian Safety

**Years in the Industry: 20**

**Years with CDM Smith: 1**

**Project Manager, South State Street Corridor Study, Ann Arbor, Michigan.** This was a corridor study along South State Street between Ellsworth Road and Oakbrook Drive in the southern portion of Ann Arbor, Michigan. This study reviewed existing transportation conditions along the corridor and evaluated alternative solutions for various modes along the corridor, including vehicular, transit, and non-motorized. As project manager, Sarah oversaw the review of the current corridor, development and evaluation of alternatives, and public involvement process.

**Lead Transportation Engineer, Re-imagine Washtenaw, Washtenaw County, Michigan.** This study analyzed various roadway alternatives along Washtenaw Avenue in the cities of Ypsilanti and Ann Arbor and townships of Pittsfield and Ypsilanti. Currently five lanes, these communities are looking to invigorate economic development along the corridor, increase transit and non-motorized uses, and create a sense of community along the corridor through redefining the roadway. Tasks included review of non-motorized conditions, existing and future year traffic operations using VISSIM, and attending public meetings.

**Lead Transportation Engineer, East Maple Road Complete Streets Study, Birmingham, Michigan.** This complete streets study evaluated various alternatives for East Maple Road between Eton Street and Woodward Avenue in Birmingham, Michigan. Maple Road was four lanes and needed to be reconstructed in the next few years. The City had recently adopted a walkable community policy and this was the first corridor to be studied looking at all modes, various cross-sections were evaluated including three lanes with bike lanes, three lanes with a shared use path and the existing four lanes. Evaluation measures were developed with the City looking at all modes of travel along the corridor. A memo to the City Commission was developed and presented at a City Commission meeting along with a presentation.

**Lead Transportation Engineer, I-375 Alternatives Study, Detroit, Michigan.** Sarah was tasked with transportation analysis for various alternatives developed for I-375 between I-75 and the Detroit River. I-375 is currently a four to six lane depressed freeway along the east side of Downtown Detroit and is in need of repair. This study reviewed various roadway concepts from replacement of the existing freeway to surface street alternatives. The evaluation reviewed impacts to vehicular traffic, non-motorized, land-use, transit, and connectivity. Synchro and the SEMCOG travel forecasting model were used as part of the analysis.

**Project Manager, Michigan Avenue Streetscape Enhancement Project, Detroit, Michigan.** Sarah was the project manager to provide traffic evaluation and engineering services for Michigan Avenue between Cass Avenue and Woodward Avenue in downtown Detroit, Michigan. The study evaluated the existing and two future roadway conditions of eight intersections along and near Michigan Avenue. The renovation of the Book Cadillac Building and the adjoining parking garage impacted the operation of Michigan Avenue and nearby roadways. Major recommendations of the study included reconfiguring Michigan Avenue to include additional parking and changing the operations of State Street to ease valet operations of the Book Cadillac hotel.

**Project Manager, Detroit East Riverfront District Plan Traffic Study, Detroit, Michigan.** Sarah was the project manager on the transportation aspect of an exciting project to redevelop the riverfront from Downtown Detroit to the Belle Isle Bridge. This

area, which is approximately three miles in length, extends from the Detroit River to Jefferson Avenue and the project would redevelop mostly vacant industrial land into various types of land uses, including residential, park land, and some retail and commercial. As a subconsultant, PB developed the transportation plan through analyzing the traffic impact associated with the proposed development for the East Riverfront District. The secondary purpose of the study was to determine if Jefferson Avenue could be reduced from a nine-lane roadway to a smaller roadway and still operate at an acceptable level of service for the build out year of 2025. The goal of the study was to develop a transportation plan for the East Riverfront District that would maintain acceptable traffic operations at all intersections, enhance circulation in the area, and promote safety for motorists and pedestrians.

**Project Manager, Gratiot Avenue Transit Alternatives Analysis, Wayne and Macomb Counties, Michigan.** Project Manager for the evaluation of transit alternatives along Gratiot Avenue from Downtown Detroit to Mount Clemens, Michigan. The study evaluated different transit modes along the corridor and selected a locally preferred alternative. The study had three sets of public meetings, a transit analysis, travel demand forecasting, transit-oriented design, and a traffic analysis.

### Professional Activities

Member, Transportation Research Board Operation Effects on Geometrics (AHB65) Committees (2016-Present)

Member, Institute of Transportation Engineers

### Publications and Presentation

Primary author for the Transportation Research Board Annual Meeting 2014 Paper #14-3816, "Development and Use of a 400-square mile DTA for corridor maintenance of traffic decision-making", paper presented at a poster board session at the 2014 TRB Conference

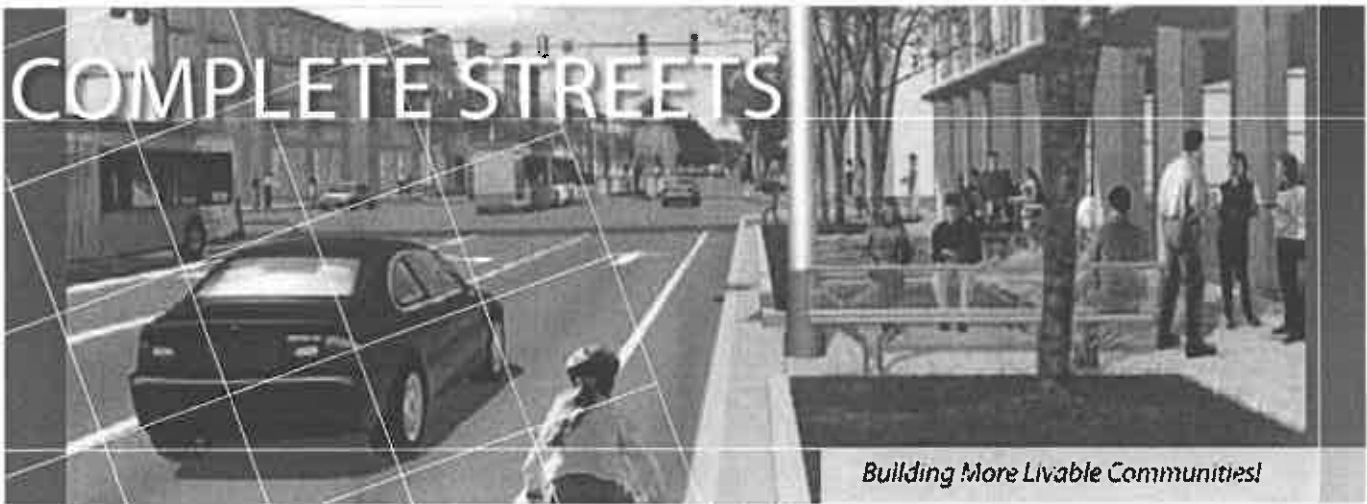
Presentation and paper submitted to the 14<sup>th</sup> Annual TRB National Transportation Planning Application Conference titled "Developing a 200 square mile DTA model for public and corridor maintenance of traffic decision-making", voted best presentation

Presentation to Institute of Transportation Engineers, Michigan Chapter Technical Session Meeting titled "Dynamic Traffic Assignment Modeling to Test MOT Concepts: The I-96 Experience", 2012

Presentation to Michigan Association of Planning titled "I have a Safe Routes to School Plan, Now What? Implementation", 2012

Presentation to Institute of Transportation Engineers, Michigan Chapter Technical Session Meeting titled "MI Travel Counts, Michigan Statewide Household Survey Results", 2005

Transportation Research Board 1997 Outstanding Paper on the Operational Effects of Geometry, January 1997, "Evaluation of Michigan 70-MPH Speed Limit"



## What are Complete Streets?

Since World War II, the street network in the United States has focused mainly on getting from point A to point B, paying little attention to the areas in between. However, with increasing urbanization, we are starting to see a paradigm shift. We can no longer build ourselves out of congestion, and fluctuating gas prices have us questioning complete dependence on the automobile.

In recent years, diverse organizations such as the National Complete Streets Coalition, Congress for New Urbanism, American Planning Association, Institute of Transportation Engineers, and the Centers for Disease Control and Prevention, have advocated for a new approach to street design known as “complete streets”. Complete streets serve everyone. They are designed and operated to enable safe access for all users – pedestrians, bicyclists, transit riders and drivers – while balancing the access concerns of emergency vehicles and delivery services. The needs of all users (especially the disabled, elderly and children) must be considered. The concept focuses not only on the infrastructure of individual roads, but on changing the decision-making and design process so that the end user is considered during planning, design, construction, and operation. By making it easy for people to cross the street, walk to shops, and bicycle to work, we are, ultimately, enhancing the daily lives of our citizens.

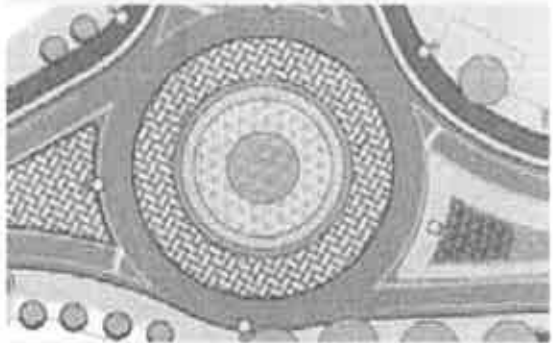
Communities across the country are adopting complete streets policies to help change the way street projects are constructed. And these changes are not just occurring in the dense cities of the East Coast or the environmental progressive regions of the West Coast. In challenging times with concerns such as limited budgets and ever-changing needs, cities large and small across the country are taking a more comprehensive approach to solving urban problems. A reimagined roadway network can be a vehicle for sustainable transportation and provide opportunities to simultaneously address diverse issues such as accessibility, mobility, neighborhood livability, and obesity.

*Complete streets are designed and operated to enable safe access for all users — pedestrians, bicyclists, transit riders and drivers.*



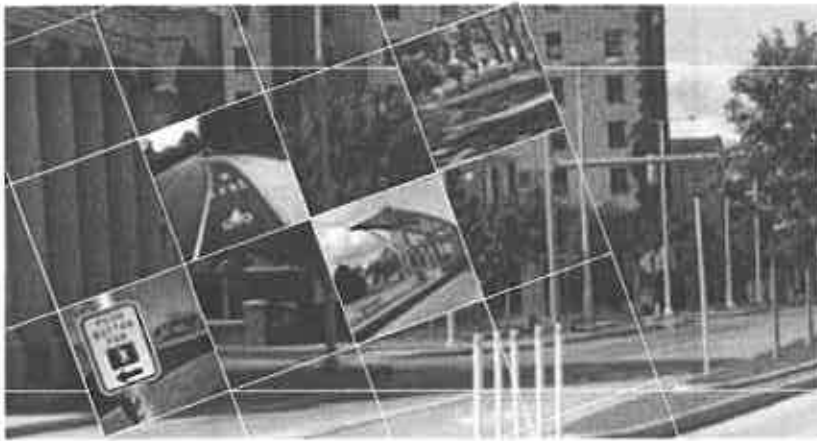
### Veterans Boulevard Improvement Project, Tennessee

For this project, six miles of an existing rural roadway were converted to a combination five-lane and four-lane urban facility with curb and gutter, sidewalks, enclosed drainage, a greenway, and transit stops. Since this heavy tourist corridor provides access to the Dollywood theme park, stakeholder coordination and additional traffic capacity were also required.



### Realignment of Route 116, Bay Road and West Bay Road, Massachusetts

This busy intersection included roadway and pavement design and the relocation of Route 116 to address heavy bicycle and pedestrian traffic. Other services included traffic and environmental impact analyses, design of twin roundabouts, country-style drainage design, pedestrian and bicycle path design, village concept planning, a public participation design charrette, and integration of sustainable components.



### Euclid Corridor Transportation Project, Ohio

This \$120 million project involved more than 5.5 miles of Euclid Avenue and three miles of downtown streets. Services included ridership analysis, transit station design, innovative utilities design (using 3D modeling), streetscape and landscaping design, bikeway design, and pedestrian amenities.

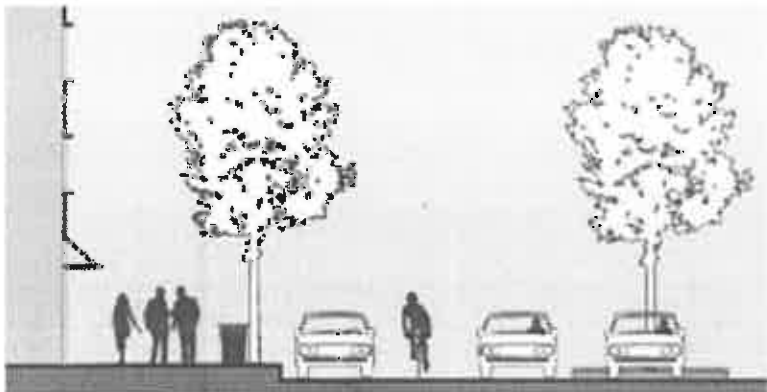
*American Council of Engineering Companies  
and Urban Land Institute Award Winner  
Design Excellence and Innovation*

### Renowned Expertise. Diverse Experience. Globally-Dispersed Team.

From planning projects like multimodal transportation studies, bicycle and pedestrian plans, and transportation master plans to design projects that include pavement restriping, roadway reconstruction and street realignments, our team has performed projects all over the world.

Our staff continues to stay abreast of cutting-edge trends, research, analysis tools, and innovations. We have partnered with the Transportation Research Board, the U.S. Department of Transportation, Federal Highway Administration, and the National Highway Institute to streamline and improve planning strategies. Results have included specialized national studies, guidebooks for departments of transportation, and streamlined data collection tools.

Our multi-disciplinary teams include transportation engineers, landscape architects, and urban planners and exemplify our philosophy that planning is not about a singular focus. Some of our projects have expanded beyond the complete streets idea and integrated green infrastructure concepts, merging the two growing markets of sustainable transportation and low impact development. Our representative projects showcase a diverse client base that benefit from the complete streets concept, including small towns, larger cities, state DOTs, MPOs, universities, and transit authorities.



### Las Vegas Complete Streets Study, Nevada

This project established regional goals and identified appropriate roadway segments for the complete streets concept for the Las Vegas Valley. Using context-sensitive standards, specific recommendations for design, specifications, and cost estimates were also provided.



### South Limestone Multimodal Transportation Study, Kentucky

This complete streets project enhances operations, while improving feelings of space and location. Working with established land use and transportation plans, this context-sensitive effort required extensive stakeholder coordination, data collection and analysis, travel time studies, and travel demand modeling.

### Jeddah Bicycle and Pedestrian Plan, Saudi Arabia

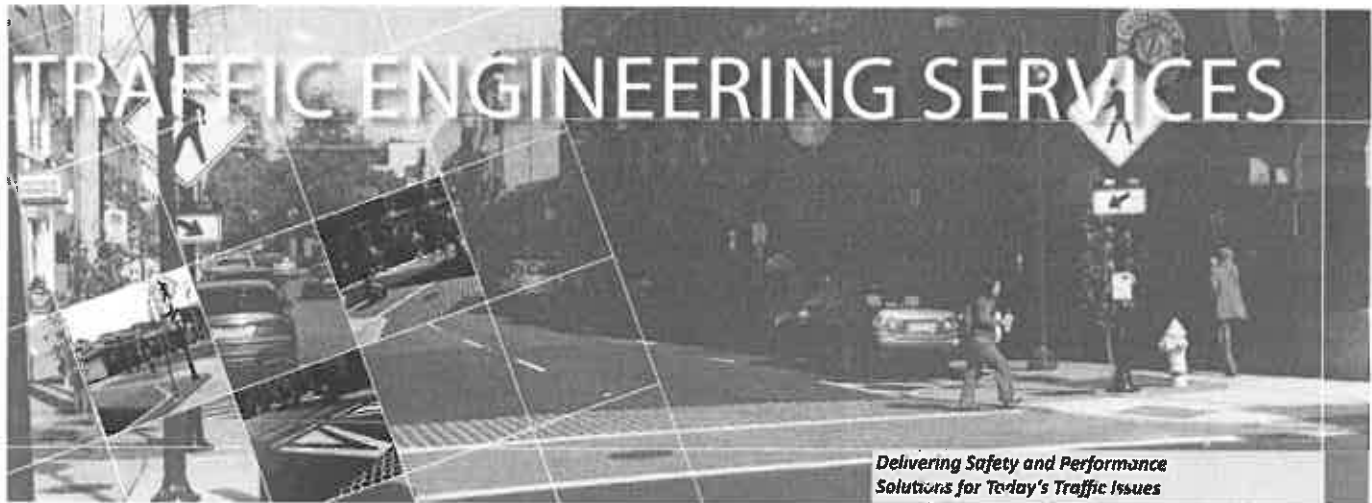
As part of the Jeddah Transportation Master Plan, CDM Smith is providing data analysis, stakeholder engagement, and technical expertise on the integration of land use and transportation planning. Other components include bicycle and pedestrian network design, environmental performance assessment, and inputs to the system-wide transportation model.



**CDM  
Smith**

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## Innovative, Integrated Traffic Solutions for Optimal Roadway System Operations

Traffic engineering is widely recognized as a core service within CDM Smith's transportation portfolio. With practices dated back to 1952, our founders saw the intrinsic value of innovative, integrated, and safer traffic operations. Today, our service menu addresses the full array of congestion and access management, signal improvements, traffic calming and safety programs, and all types of ITS applications to enhance transportation system performance.

**Staff Qualifications** - CDM Smith maintains a full, geographically-diverse traffic engineering staff, with expertise in modern simulation software. Many are Professional Traffic Operations Engineers, hold safety and inspection certifications, have authored multiple papers, articles and presentations, and are involved in policy and research projects through national organizations such as the Transportation Research Board and the Institute of Transportation Engineers. Our traffic operation services are complemented by a specialized staff of technology and all-electronic communication experts, offering a unique benefit to clients who seek to take traffic operations to the next level.

### Traffic Systems and Intelligent Transportation Systems (ITS)

ITS continues to evolve and is becoming increasingly sophisticated using dynamic elements such as sensors to measure traffic flows and guided, automated systems for better interconnectivity. A smoothly operated system reduces delays, increases safety, and improves the overall modal network, while at the same time, curtails operational costs.

With the recent focus on smart cities and advanced technology, complex ITS systems are vital to congestion management. CDM Smith's services address transit signal priority and advanced management systems as well as the entire traffic network system to include financial, communications, specifications, equipment, procurement, installation, electrical, and operational components.

### Silver Line BRT Traffic Operations Design, Grand Rapids, MI



As Michigan's first BRT corridor, the 10-mile Silver Line opened to traffic in August of 2014 as part of a larger plan to improve access to downtown Grand Rapids. The project features BRT stations with curbside level boarding platforms, dedicated bus lanes, and traffic signal priority for transit vehicles. Traffic engineering services included: traffic operational analysis, travel time benefits, traffic signal priority strategic planning and design, queue jump lanes at intersections, and intersection operational improvements.



### SH 105 Access Management Study, Houston, TX

Partnered with the Houston-Galveston Area Council, CDM

Smith identified cost-effective improvements for this 18.7-mile section of roadway. Labeled a high priority project due to high crash rates, this project helped to improve traffic flow, safety and quality of life along SH 105. Services involved extensive data collection, corridor SYNCHRO model development, traffic operational analysis, traffic signal optimization and coordination, crash analysis, development and geometric layout of alternatives, and assessment of travel efficiency benefits of recommended improvements.

## CDM Smith Traffic Engineering Services

- Traffic Design
- Context-Sensitive Design
- Traffic Operations and Capacity Analysis
- Traffic Calming and Roundabouts
- Access Management
- Safety Analysis
- Parking Studies
- Signage and Wayfinding
- Traffic Impact and Circulation Studies
- Microsimulation
- Freeway Operations
- Heavy Haul Move
- Traffic Support
- Bicycle and Pedestrian Studies and Design
- Traffic Signal Design, Inventory and Optimization and ITS
- Complete Streets Planning
- Emergency Pre-emption
- Railroad Pre-emption
- Level of Service
- Intersection Improvements
- Traffic Modeling and Simulation



### Traffic Engineering Services for West Street (Route 116) Reconstruction, Amherst, MA

With an average daily traffic flow of approximately 13,000 vehicles per day and appreciable pedestrian and bicycle traffic, the Town envisioned an integrated transportation system. The traffic engineering components of this full lifecycle project involved extensive safety and capacity improvements at the two primary intersections (West Bay Road and Bay Road). Ultimately, the alternatives analysis led to the design of twin roundabouts.

Traffic Calming Neighborhood and School Safety Programs, Access Management and Context Sensitive Design  
 Calming and safety techniques, like those used in the *Route 116 and Bay Road Roundabout* project in Amherst, MA (shown above), help address safety concerns and provide service to all users (pedestrians, motorists, cyclists, and transit riders). City leaders seek inventive and out-of-the-box solutions to improve school and neighborhood safety, provide better access, and increase the quality of traffic operations. CDM Smith's collaborative, context-sensitive solutions may include better signal coordination, sidewalks, trails, enhanced pavement markings, and even raised vegetative medians to change the character of the road and narrower travel lanes.

### Traffic Study and Peer Review

Our experts offer experience in GIS-based diversion plan development, corridor management, policy, capacity evaluation, signal warrant analysis, speed measurements, sight distance measurements, capacity analyses, trip generation, level of service and queue analyses, as well as traffic simulation and operations software. These internal and external peer reviews and evaluations help discover and correct crucial or potentially devastating errors.

### Road Safety Audits

Road Safety Audits are formal safety performance examinations of an existing or future road or intersection that provide qualitative estimates and reports on potential road safety issues and identify opportunities for safety improvements. RSAs can be used on any sized project from minor intersection and roadway retrofits to major urban projects and can be conducted at any phase of project development. Having performed hundreds of these audits all over the country, CDM Smith's traffic engineering team helps clients save time and money on potential issues.



### Parking Management and Studies

CDM Smith's parking management services are designed to support "smart growth" in urban and suburban areas. CDM Smith has developed proven quantitative techniques for measuring the actual parking demand of existing land uses, which is then applied to future demand scenarios. Our pricing strategies include: differential, market-based, variable rate, and policy based. Other management tools include: demand management, location management, time management and supply adjustment.



### Urban Traffic Modeling and Analysis

The ability to accurately forecast traffic is crucial in traffic management, especially in highly urbanized areas. CDM Smith's traffic team includes specialists in the latest modeling and simulation software. Highlights of these services include:

- Micro and Meso Simulation Modeling
- Dynamic Traffic Assignment
- Adaptive Signal Control

### Rhode Island DOT Traffic Engineering On-Call Services and Safe Route to Schools



This three-year \$1 million assignment involved inventory of over 60 traffic signals, pedestrian and bicycle evaluations, safety and capacity analyses, ADA compliance analyses, state traffic commission studies, and innovative research. Under a separate contract, we performed ADA compliance, and pedestrian safety analyses and improvements for a number of schools in Rhode Island under the Safe Route to School Program.



### I-10 Freight Corridor ITS Architecture, Nationwide

This innovative project involved the development of a complex ITS architecture and deployment plan across a major freight corridor. Spanning eight states, the project evaluated existing architecture and provided recommendations for enhancements integration opportunities, including the creation of sub-regional hubs for improved coordination.



cdmsmith.com

# TRAFFIC ENGINEERING - SELECT EXPERIENCE



## Red Light Camera Legislative Consulting Services, Knoxville, TN



CDM Smith assisted a confidential Tennessee-based client in developing language for vital state legislation. Our traffic team provided guidance and consulting services on the proper procedure for setting clearance intervals, which are based on vehicular speeds, grade of the roadway, and width

of the intersection. The team provided insight into driving laws related to when cars are considered actually in an intersection.

There was also significant discussion about how far a vehicle needed to be past a stop line to legally be in the intersection and how much grace area should be provided.

## Traffic Engineering Services for the Illinois State Toll Highway Authority

As the Traffic Engineer of Record for the Tollway for many years, CDM Smith's services have supported small to very large projects. Below are some of the more recent operations analyses tasks:

**Performance Measures** – based on federal roadway performance measures, our team tracks and reports on metrics such as average travel time, percent of congested VMT, and average delay times.

**Incident Management Performance Measures** – In concert with the FHWA, CDM Smith developed a process to accurately track secondary crash and associated delays, especially during unusually high congestion.

**Ad Hoc Traffic Analysis** – Through event-based traffic analysis, the team develops solutions such as increased traveler information during blizzards and congestion control techniques for delays during emergency events.

**Speed Limit Analysis** – Across the entire Tollway system, CDM Smith uses industry standards, tests multiple speed limit models and studies the long term effects of speed limit changes.

**Vissim and Cube Avenue** – Vissim is used to assess the operations impact of different maintenance of traffic (MOT) scenarios. Animations are created observe the traffic operations of various configurations and to guide decision-making. Cube Avenue helps to produce Mesoscopic simulations for temporal variation modeling at intervals. As a result, congestion build-up during peak periods and cumulative effects of traffic delays are better understood.



© CDM Smith Inc. (2017)



## I-45 North Corridor Study, Houston, Texas

This study evaluated and developed alternatives along I-45, Hardy Toll Road, and the downtown freeway loop system. Services included projection of future travel demands using H-GAC regional travel demand model

in Cube Voyager, traffic operation and capacity analysis for the study corridor, and alternatives analysis, using traffic/mobility performance measures developed as part of this study.

A VISSIM traffic simulation model was developed to evaluate the 25-mile freeway, toll roads, HOV lanes, frontage roads, and major signalized intersections within the study area.



## Florida DOT Strategic Intermodal System Bottleneck Study

Conducted in two phases, this study produced a methodology to identify bottlenecks on Florida's Strategic Intermodal System (SIS) using vehicle probe data and travel time reliability measures. The vehicle probe data, obtained from INRIX, provided travel speed on roadways for an entire year at five-minute intervals. Travel time reliability is a measure of consistency in travel time and is being encouraged by the FHWA as a measure for managing and operating transportation systems. The study calculated daytime 10th percentile speed, planning time index and frequency of congestion during weekdays for Florida's SIS. The bottlenecks are displayed using easy-to-understand graphics helping to identify the top five bottlenecks at the statewide and district-wide level.

Benefits of this methodology include proactive activities and fore-knowledge such as this allow for better accuracy and options for corrective action, allow for targeted focus on relief efforts and prioritization, and the potential to identify additional trouble spots, as well as monitoring of existing ones to discern congestion trends.

Phase one of this project won the ITE Transportation Planning Council's Best Project Award in 2014 and led to the successful win of phase two.



# CASCADE CHARTER TOWNSHIP

2865 Thornhills SE Grand Rapids, Michigan 49546-7140

**Date:** March 14, 2018  
**To:** Supervisor Beahan and Township Board Members  
**From:** Ben Swayze, Township Manager  
**Subject:** Request from KDL for Music Programming Funding

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## **FACTS:**

The Township has received a request from the Kent District Library to participate in funding for the third year of their monthly live music program at the Cascade Library titled Sunday Afternoon LIVE!

It is anticipated that the program will be held each month on a Sunday afternoon from October 2018 – April 2019 and feature musical acts from a variety of genres and locations. The attendance for the past 2 ½ years series ranged from a low of 53 people to a high of 272 people for the Crane Wives concert in December 2017. Over the history of the program the average attendance for the concerts is 120 people, and the attendance record is attached for your review. KDL is seeking a financial contribution from Cascade Township of \$3,500 to support this event. KDL staff is also seeking funding from a variety of other sources including themselves (KDL), Friends of the Cascade Library, the Cascade Community Foundation, the Downtown Development Authority and individual gifts and donations. The DDA is being asked to contribute \$1,500 to the event

Diane Cutler, Cascade Library Branch Manager, will be present to review the proposed program and answer any questions the Township Board may have.

Attached for your review is:

- Program funding request from KDL
- Proposed budget for the 2018-2019 program
- To-date program attendance records.

## **ANALYSIS & CONCLUSIONS:**

Currently, Cascade Township does not directly provide any music related programming to the community. As recently as 2012 the Township assisted the Cascade Community Foundation in presenting the summer music series at Tassel Park. There have been talks between the DDA and the KDL staff o partnering to provide a summer music series. The Township, through the DDA, also sponsors the Metro Cruise Warm-Up event, which featured an expanded musical presence in 2017.

The Sunday Afternoon LIVE! events have provided no issues that the Township is aware of.

**FINANCIAL CONSIDERATIONS:**

The Township has budgeted \$3,500 for this event in the FY2018 budget.

**RECOMMENDED ACTION:**

Consider the request from the Kent District Library to provide \$3,500 in funding to the Sunday Afternoon LIVE! music program at the Cascade Library.

# **KDL**

Kent District Library

## **Sunday Afternoon LIVE!**

### **Proposal**

#### **For Cascade Charter Township Township Board**

Music can change the world because it can change people. – Bono

Season 3 continued the trend of greater than expected attendance

- To-date average attendance is 120 people per concert
- 3 concerts have been capacity crowds

Listening Room atmosphere is enjoyed by musicians as well as audiences

- Musicians appreciate attendees who pay attention and interact with them, allowing for more creativity and personal interaction
- Audience appreciate quieter event away from distractions
- Attendees have complemented staff on “homey” feeling with coffee/snacks

Concerts have been promoted by Local Spins, the go-to source for local music in Grand Rapids

Why is this a good thing for Cascade?

- Creates excitement for the library and its sponsors.
- Highlights the library as a destination for quality activities
- Economic development: partner with restaurants/brewery for discounts to concert goers
- Brings attention to Cascade Township as a supporter of quality events
- Brings new people into the branch/township; approximately one third are from outside Cascade

Why keep doing it?

- Sunday Afternoon Live has created its own momentum and excitement. People start inquiring over the summer about dates and groups
- Sunday Afternoon Live is perceived as a quality event and is now expected by the community
- Provides an opportunity for positive community engagement

As in previous years, Sunday Afternoon Live is proposed to be a partnership between Kent District Library, Cascade Charter Township, Cascade Township DDA, Cascade Community Foundation and the Friends of the Cascade Library.

Dates of project: October 2018 through April 2019

Amount Requested: \$3500

Total project cost: \$23,690

**Sunday Afternoon LIVE**  
**Season 4: 2018-19**  
**Proposed Budget**

**Revenues**

Cascade Charter Township	\$ 3,500.00
Cascade Community Foundation	\$ 3,500.00
Friends of the Cascade Library	\$ 3,540.00
Cascade DDA	\$ 1,500.00
Kent District Library (in kind)	\$ 11,550.00
Kingsland Ace Hardware (in kind)	\$ 100.00
<b>Total</b>	<b>\$ 23,690.00</b>

**Expenditures**

Bands	\$ 11,450.00
Promotion: Fliers, posters, bookmarks (in kind from KDL)	\$ 7,500.00
Staffing (in kind from KDL)	\$ 4,050.00
Refreshments and paper supplies	\$ 550.00
Popcorn (in kind from Kingsland)	\$ 100.00
Facebook paid advertising (paid by Friends)	\$ 40.00
<b>Total</b>	<b>\$ 23,690.00</b>

**Sunday Afternoon LIVE  
Attendance  
Seasons 1, 2 & 3**

<b>Band</b>	<b>Date</b>	<b>Attendance</b>
Vox Vidorra	10/25/2015	76
Afro Zuma	11/22/2015	159
An Dro	12/27/2015	122
Max Lockwood and the Michigan Basement	1/24/2016	98
Brad Fritcher	2/28/2016	56
Blue Water Ramblers	4/24/2016	53
Olivia Mainville & the Aquatic Troupe	10/16/2016	69
The Crane Wives	11/13/2016	175
Peat in the Creel	12/11/2016	65
May Erlewine	1/8/2017	226 capacity
The Bootstrap Boys	2/12/2017	139
An Dro	2/26/2017	175
Rober MacNaughton Trio	3/12/2017	97
Steam Powered Blue Grass	4/9/2017	127
Megan Dooley	10/22/2017	81
Moxie Strings	11/19/2017	258 capacity
Crane Wives	12/10/2017	272 capacity
Red Sea Pedestrians	1/14/2018	151
May Erlewine & Max Lockwood	2/11/2018	214
KDL Krooners featuring the B-Side Growlers	2/25/2018	98
Fiona Dickinson & The Stone Flowers	3/18/2018	
Cabildo	4/15/2018	
Jim Malcolm	4/28/2018	
<b>Overall Average Attendance</b>		<b>136</b>
2015-16 average attendance		94
2016-17 average attendance		134
2017-18 average attendance		179
<b>Initial Goal</b>		<b>50</b>
<b>Current Goal</b>		<b>100</b>



# CASCADE CHARTER TOWNSHIP

2865 Thornhills SE Grand Rapids, Michigan 49546-7140

**Date:** March 14, 2018  
**To:** Supervisor Beahan and Township Board Members  
**From:** Ben Swayze, Township Manager  
**Subject:** Contract with Hamilton Helicopter Inc. for Gypsy Moth Suppression Services

---

## **FACTS:**

In the fall of 2017 Cascade Township contracted with Aquatic Consulting Services LLC to conduct gypsy moth egg mass surveys to determine areas that require aerial spraying for 2018. As a result of that survey, it has been recommended that approximately 1,115 acres of the Township be sprayed for gypsy moth suppression. It should be noted that the recommended acreage is significantly higher than the acreage we have sprayed in recent years. In 2017 the Township sprayed 433 acres. Our biologist, Aquatic Consulting Services, attributes the additional spraying acreage to "...gypsy moth populations across the West Michigan area [that] are representative of a strong growth phase in the invasive species curve gypsy moths undergo." Additionally he notes, "Cascade is in a good position, ahead of any widespread damaging growth, but intensive monitoring and suppressing spray is likely going to be required for the next few years at least."

The Township had utilized Mid-Michigan Helicopter Inc. for Gypsy Moth Suppression services since the onset of our program until 2015. In 2015 Mid-Michigan Helicopter was bought by Hamilton Helicopter, and they have overseen our spraying program for the last three years. Our spray program last year was successful with no known issues reported from the contractor or residents in the affected areas. The Township last sprayed for gypsy moths in spring of 2017, when we sprayed 433 acres. The follow up report from Aquatic Consulting Services in summer of 2017 indicated the spray program was successful in suppressing the gypsy moth population in a majority of the indicated spray areas.

There are two proposed contracts from Hamilton Helicopter. The first proposed contract would provide for gypsy moth suppression services for the Township for 2018 at a cost of \$64.35 per acre, which is a \$0.50 per acre increase (0.78%) from 2017. The cost to spray the entire recommended area would be \$71,750.25. The second proposed contract would provide for gypsy moth suppression services over a period of three years (2018-2020) at a cost of \$61.35 per year, which represents a \$3.00 discount over the single year contract. Under this contract, the Township would be required to spray a minimum of 500 acres per year, and the price would adjust by the increase of the cost of the spray compound, typically \$0.50 - \$0.80, each year. Under the three year program, the cost of the 2018 spray program would be \$68,405.25.

The program will take place in the time period between May 1<sup>st</sup> and June 15<sup>th</sup>, with a more specific date to be available when the weather breaks. The Township is required to notify all residences in the spray block areas of the program. Any objectors to the spray program are eligible to be removed from the spray block at the discretion of the Township.

Attached for your review are:

- Both proposed agreements with Hamilton Helicopter Inc. for Gypsy Moth Suppression Services.
- Communication from Aquatic Consulting Services regarding spray program
- Map of the proposed spray blocks for 2018
- Gypsy Moth information brochure published by the MSU Extension
- Information regarding Bacillus Thuringiensis pesticide.

### **ANALYSIS & CONCLUSIONS:**

The Township has participated in the gypsy moth spray program in conjunction with Mid-Michigan Helicopter Inc/Hamilton Helicopter and Aquatic Consulting Services going on 20 years. The Township has participated in the program because of the acknowledgement of the devastating effect the gypsy moth population could have on the tree canopy cover of the Township.

During the onset of the program it was not uncommon for the Township to spray 1000 – 2000 acres per year. The continued treatment has allowed the program to be successful and our gypsy moth populations to be controlled. The partnership with both Aquatic Consulting Resources and Hamilton Helicopters Inc. has allowed us to efficiently allocate our financial resources to this program. The survey ensures that the aerial spray program effectively targets areas of infestation above the set thresholds, and on several occasions has saved us from unnecessarily spraying, as was the case in 2013 and 2010-11

The Infrastructure Committee reviewed the gypsy moth program at their March meeting. Based on the report from Aquatic Consulting Services, and the likelihood we will need significant spraying over the next few years, they have recommended the Township approve the 3 year contract with Hamilton Helicopters.

### **FINANCIAL CONSIDERATIONS:**

The proposed agreement with Hamilton Helicopter Inc. is for a rate of \$61.35 per acre, which is \$2.50 per acre less than the 2017 contract, but will lock us into a program with a minimum 500 acres per year. The total cost of the program will come to \$68,405.25. The Township has budgeted \$25,000 for this program in 2018 (our baseline spraying budget number), so a budget amendment in the amount of \$43,405.25 will be needed if the Township chooses to spray the entire recommended area. The amount can be offset by additional PPT reimbursement funds received by the Township, which were \$60,000 in excess of what was budgeted.

### **RECOMMENDED ACTION:**

Approve the three year agreement with Hamilton Helicopter Inc. for Gypsy Moth Suppression Services.

# Hamilton Helicopters Inc.

PO Box 264  
4488 134<sup>th</sup> Ave  
Hamilton, MI 49419  
616-291-5808  
khomkes@gmail.com

January 9, 2018

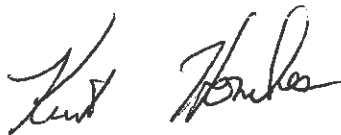
## 2018 Gypsy Moth Spraying Proposal/Quote

Cascade Charter Township  
Attn: Ben Swayzee, Manager  
2865 Thornhills Ave, SE  
Grand Rapids, MI 49546

This letter is the 2018 Gypsy Moth Spraying quote for services provided by Hamilton Helicopters. This quote includes the application of B.T. (*Bacillus Thuringiensis*) at the rate of 19 BIU per acre and the securing of an FAA Congested Area Permit, if needed.

The 2018 cost per acre will be \$64.35. This is a slight increase from last year due to the price of the B.T. being raised, per a quote from Valent. There is no cost increase for the application.

We have received some inquiries regarding pricing. We are willing to decrease the per acre rate with a signed 3 year contract that includes a minimum number of acres per year. For more information and questions please contact Kurt at 616-291-5808 or at the above email address. Thank you.



Kurt Homkes – President  
Hamilton Helicopters

## GYPSY MOTH SUPPRESSION SERVICES AGREEMENT

This agreement is made as of \_\_\_\_\_, 201, between Cascade Charter Township, a Michigan municipal corporation at 2865 Thornhills Ave. SE, Grand Rapids Michigan. 49546. (Hereafter referred to as the Township), and Hamilton Helicopter Inc. (hereafter referred to as Hamilton Helicopters).

Whereas the Township desires to control the gypsy moth population within its boundaries, and Hamilton Helicopters is interested in and capable of participating in a Gypsy moth suppression program with the Township.

NOW, therefore, the parties agree as follows.

- A With regard to the gypsy moth suppression program, the Township shall provide or arrange for the following to be performed.
- (1) Determination of spray blocks.
  - (2) Provide homeowner notification of the spraying program, and make all public notices required, and make sure there are no objectors in the spray blocks.
  - (3) Provide location of all objectors in and outside the spray blocks, and exclude and defend Hamilton Helicopters from any action, legal or otherwise, that should arise from the "no exclusion policy".
  - (4) Provide digitized maps of the spray blocks.
  - (5) Provide traffic and crowd control at the time of spraying, in the spray blocks and at the load site if deemed necessary by the parties.
  - (6) Provide a central loading site.
- B With regard to the gypsy moth suppression program, Hamilton Helicopters shall.
- (1) Have and maintain insurance coverage during the term of this agreement in the amount of \$2,000,000.00 single limit bodily injury and property damage. The Township and its employees shall be named as "additional insured". All liability for Hamilton Helicopters and its employees will be limited to the insurance policy provided.
  - (2) Will apply to the F.A.A. for a (workable) congested area spray plan for the time period from May 1, 2016 to June 15, 2016.
  - (3) Provide Bacillus Thuringiensis 'BT' at the rate of 19 B.I.U. per acre to cover 1115 acres for the Township.
  - (4) Coordinate the spray timing with Aquatic Consulting Services.
- C In addition to providing the services in paragraph A above, the Township shall pay Hamilton Helicopters a fee of \$64.35 per acre for providing the services listed in paragraph B. This shall be paid within 30 days of billing.
- D In the event Hamilton Helicopters is prevented from spraying as a result of legal action, court injunction, terrorist related problems or any problems beyond the control of Hamilton Helicopters, the Township will pay \$15.00 per acre to cover some of the costs incurred.

E For the purposes of this contract, the contractor and its employees shall be considered Independent contractors.

F Either party upon Thirty (30) days' notice may terminate this agreement, in addition, this agreement may be amended by mutual consent of the parties.

IN WITNESS THERE OF, the parties here have executed this agreement by and through their authorized representatives as of the date written above.

Cascade Charter Township

Hamilton Helicopters Inc.

\_\_\_\_\_ DATE \_\_\_\_\_

*[Signature]* DATE 1/29/18  
Its Pres

## GYPHY MOTH SUPPRESSION 3 YEAR SERVICE AGREEMENT

This agreement is made as of \_\_\_\_\_, 2018, between Cascade Charter Township, a Michigan municipal corporation at 2865 Thornhills Ave. SE, Grand Rapids Michigan. 49546. (Hereafter referred to as the Township), and Hamilton Helicopter Inc. (hereafter referred to as Hamilton Helicopters).

Whereas the Township desires to control the gypsy moth population within its boundaries, and Hamilton Helicopters is interested in and capable of participating in a Gypsy moth suppression program with the Township.

NOW, therefore, the parties agree as follows.

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- (1) Determination of spray blocks.
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  - (4) Provide digitized maps of the spray blocks.
  - (5) Provide traffic and crowd control at the time of spraying, in the spray blocks and at the load site if deemed necessary by the parties.
  - (6) Provide a central loading site.
- B With regard to the gypsy moth suppression program, Hamilton Helicopters shall.
- (1) Have and maintain insurance coverage during the term of this agreement in the amount of \$2,000,000.00 single limit bodily injury and property damage. The Township and its employees shall be named as "additional insured". All liability for Hamilton Helicopters and its employees will be limited to the insurance policy provided.
  - (2) Will apply to the F.A.A. for a (workable) congested area spray plan for the time period from May 1, 2018 to June 15, 2018.
  - (3) Provide Bacillus Thuringiensis 'BT' at the rate of 19 B.I.U. per acre to cover 1115 acres for the Township in 2018.
  - (4) Coordinate the spray timing with Aquatic Consulting Services.
- C This Service agreement listed in paragraphs A and B will be a 3 year contract starting with 2018 spray season. There is a 500 acre application minimum per year. The price for 2018 is \$61.35 per acre. The price for the next 2 years can only be increased by the increase cost of the BT (Bacillus Thuringiensis) which has been relatively small .50-.80 cents per acre per year. Payment is to be made within 30 days of billing
- D In the event Hamilton Helicopters is prevented from spraying as a result of legal action, court injunction, terrorist related problems or any problems beyond the control of

Hamilton Helicopters, the Township will pay \$15.00 per acre to cover some of the costs incurred.

E For the purposes of this contract, the contractor and its employees shall be considered Independent contractors.

F This agreement may be amended by mutual consent of the parties.

IN WITNESS THERE OF, the parties here have executed this agreement by and through their authorized representatives as of the date written above.

Cascade Charter Township

Hamilton Helicopters Inc.

\_\_\_\_\_ DATE \_\_\_\_\_

*Kurt Krombe* DATE 1/29/18  
Its Pres.



## *Aquatic Consulting Services*

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P.O. Box 530, Sanford, MI 48657  
*www.aquaticremedies.com*

989-689-0223

November 28, 2017

Mr. Ben Swayze,  
Township Manager  
Cascade Charter Township  
2865 Thornhills, S.E.  
Grand Rapids, MI 49546

Dear Mr. Swayze:

We have completed the gypsy moth surveys, maps and report for the 2018 season in Cascade Charter Township. I have included JPG and PDF map files of the results for you to review and to post on your website as needed. Both JPG and PDF files are printable for your purposes although I believe the PDF file will be more user friendly on your website. I have also included a short report on the conditions in each recommended spray block.

I am pleased to report that we are maintaining good suppression of gypsy moth populations in Cascade Township. The condition of the gypsy moth populations across the West Michigan area are representative of a strong growth phase in the invasive species curve gypsy moths undergo. Cascade is in a good position, ahead of any widespread damaging growth, but intensive monitoring and suppressing spray is likely going to be required for the next few years at least. We have seen conditions in the past similar to what Cascade is experiencing, and there will inevitably be a crash in the populations. We have the invasion process well defined, and the spray is generally effective in keeping the overall population contained and at manageable levels. Given the conditions, there are some rising populations that popped up during the survey as well as a few remnant populations that are particularly resilient. Accordingly, there has been an increase of 682 acres in recommended spray acreage, a notable increase, but well within normal metrics. The proactive approach Cascade has taken in past years has proven effective in mitigating the damaging, exponential growth common under these conditions. Overall, we achieved good results in areas sprayed last year and I anticipate good control in the future.

I will hold off for a few of months on digitizing the spray blocks for the pilot's use until you have had a chance to review the map. If it meets with your approval, I will put a final package together for the aerial applicator you choose. They will contact you to negotiate this season's spray contract.

Thank you again for the opportunity to work for Cascade Township. Please let me know if you need anything further. (989) 689-0223 or [gypsymoth@aquaticremedies.com](mailto:gypsymoth@aquaticremedies.com).

Sincerely,

Neal Swanson  
Owner/Biologist

Cascade Charter Township  
Recommended Gypsy Moth Spray Areas 2018

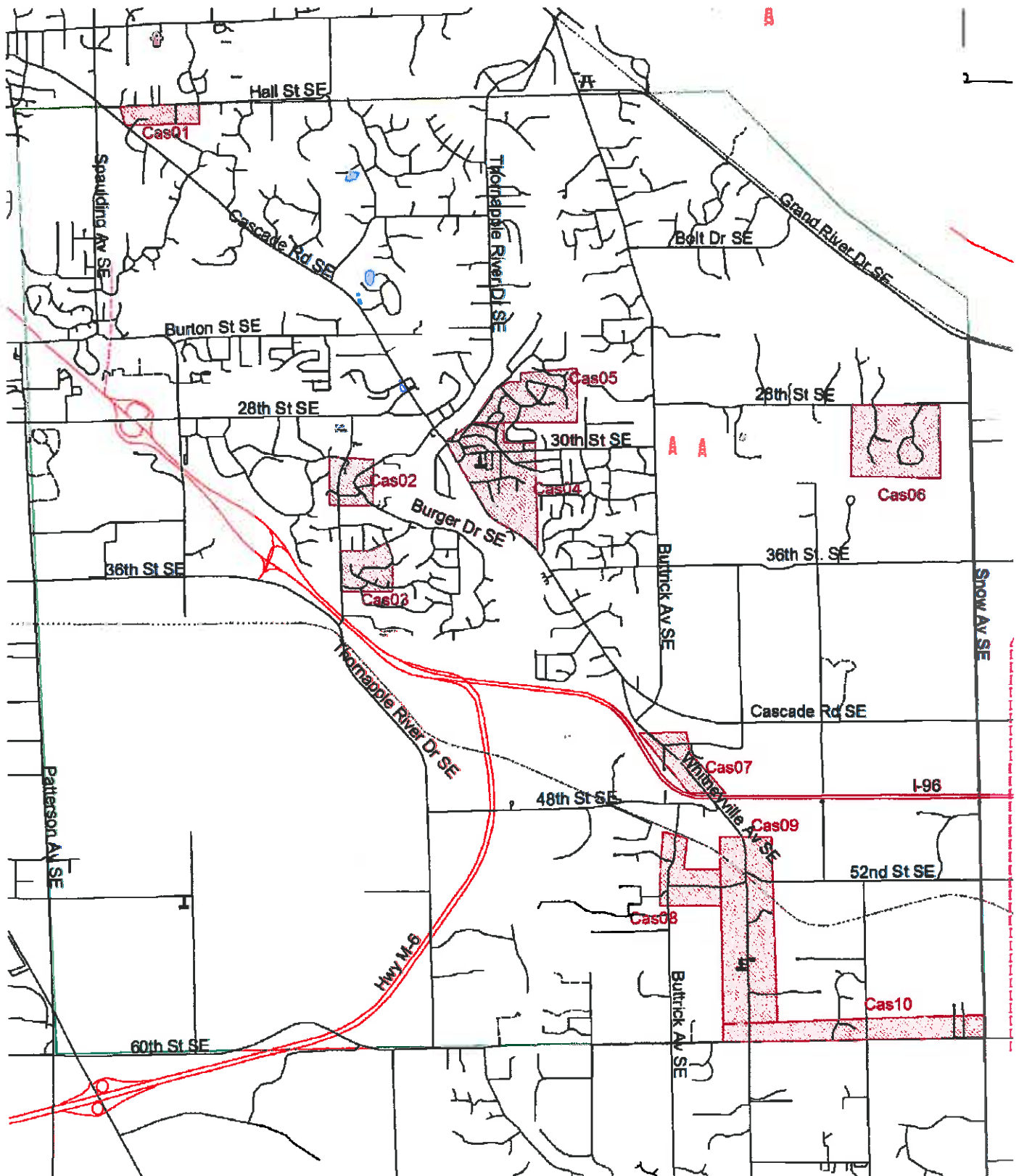
By  
Aquatic Consulting Services LLC  
November 2017

Block #	Acres	Reason for Spray
Cas01	37	A rising population in good habitat. Population extends into neighboring Ada Township. Spray to prevent nuisance, suppress growth, and contain spreading.
Cas02	52	A remnant population in very good habitat. Spray to further suppress population and contain spreading.
Cas03	56	An established population in prime habitat. Spray to further suppress population and limit nuisance.
Cas04	171	An established population in prime habitat that continues to persist. Nuisance and tree damage thresholds have already been reached. Spray to suppress growth, reduce nuisance, and limit tree damage.
Cas05	109	An established population in prime habitat. Spray to reduce nuisance, contain spreading, and limit tree damage.
Cas06	163	A rising population in very good habitat, spray to contain spreading and suppress growth.
Cas07	57	A rising population in prime habitat. Nuisance and tree damage thresholds have already been reached. Spray to limit nuisance, suppress growth, and reduce further tree damage.
Cas08	78	A remnant population in very good habitat. Spray to further suppress growth and limit nuisance.
Cas09	253	An aggressively rising population in prime habitat. Population has the potential to cause tree loss in 1-2 seasons. Spray to reduce tree damage, limit nuisance, and contain spreading.
Cas10	139	An established population in very good habitat. Spray to suppress growth, contain spreading, and limit tree damage. Population is continuous into neighboring Caledonia Township.

**Total Acreage = 1,115 acres**

All blocks are recommended for spray in Spring 2018 as potential for nuisance and tree damage is quite high.

# Cascade Township Gypsy Moth Survey Report for 2018 Season



**Shaded Areas are Recommended for  
Aerial Spray in Spring 2018**



— Township Border  
2017 Aquatic Consulting Services

# Gypsy Moth in Michigan

Michigan State University Extension & Michigan State University Department of Entomology  
& the Michigan Department of Agriculture

The following information was taken from the  
Gypsy Moth in Michigan Homeowner's Guide

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# Gypsy Moth Management Starts At Home

You are the first line of defense for protecting your trees and shrubs from damage by gypsy moth, other insects, nematodes and diseases. Being knowledgeable about the life cycle of the gypsy moth will pay off in money saved, labor expended and peace of mind.

Depending upon where you live in Michigan, gypsy moth outbreaks may last from two to several years or may never occur. Why gypsy moth populations explode from time to time is not entirely clear. Outbreaks will eventually collapse, usually from natural causes.

Until a local gypsy moth population crashes, however, there are several techniques that homeowners can employ to keep damage and nuisance to an affordable minimum.

## Monitoring

Hopefully, the mind set of dragging the sprayer out of the garage and spraying insecticide on trees and shrubs just because something might be out there lurking is no longer a part of the Michigan mentality. Years ago this was called "insurance spraying" when everybody was spraying chlorinated hydrocarbon insecticides (e.g., DDT) on everything that moved. We all know where that got us!

Take time to inspect your trees and shrubs periodically for the various life forms of gypsy moth. Especially look for the caterpillars when they begin to hatch, usually in early May.

Contrary to popular belief, population explosions in a locality do not happen suddenly! An area will undergo a gradual population buildup for a time before the population goes into a phase of rapid release. This gives vigilant homeowners, neighborhoods and communities time to assess local conditions and take appropriate action.

The gypsy moth is in the egg mass form for nearly nine months, plenty of time to find and destroy them before they hatch in the spring. While it may not be possible to find and destroy all of the egg masses in and around your backyard, this activity will complement management activity taken in the spring.

## Management Non-Pesticide Techniques:

### *Water and Fertilize*

We often take trees and shrubs for granted, figuring that they are indestructible and meant to last forever. Trees and shrubs have specific nutrient and water requirements. Take the time to determine what they need, and water and fertilize properly. There are bulletins available at all county extension offices and garden centers. Most insects and diseases select trees and shrubs that are being stressed. Keeping your trees and shrubs healthy will reduce the pests and diseases attracted to your foliage and lessen the damage done if they are attacked.

### *Sanitation*

Keep your yard as clean as possible. Remove discarded items, dead branches (from the ground and out of the trees), stumps, etc., where the adult female moth is likely to lay egg masses. It is very important that homeowners be watchful when obtaining firewood from areas infested by the gypsy moth. A good rule of thumb is to never get more firewood in the summer or fall than you can burn by spring.

Each fall, check recreation vehicles (boats, trailers, campers, etc.) for gypsy moth egg masses. Vehicular movement is how gypsy moth came to Michigan.

### *Destroy Egg Masses*

As mentioned, gypsy moth egg masses are around for nearly nine months before they hatch.

Homeowners can help reduce gypsy moth population on their property and in their neighborhood by seeking out and destroying egg masses each year.

When a gypsy moth caterpillar is about to pupate, it will look for a protected area such as a loose flap of bark, something flat nailed to a tree, woodpile of the underside of branches, etc. Once a suitable location is found, it weaves a loose net of silk around itself and

transforms into a pupa. This is the resting state where the caterpillar undergoes the miracle transformation from caterpillar to moth. This takes about two weeks.

Upon emergence, the female gypsy moth is creamy white and has a wingspan of about two inches. The male moth is smaller in size and camouflage brown with black mottling. Both have a distinguishing mark on their forewings: an inverted black V often referred to as a chevron marking.

The female generally deposits egg masses from early July to mid-August depending upon local weather conditions. The female cannot fly, so she will lay egg masses near where she was in the pupal (cocoon) stage.

The adult female lives about a week. Her only purpose in life is to breed as quickly as possible and lay her eggs. She cannot fly, so she emits a chemical odor to attract the nearest male for mating, the male flies off to mate several more times before dying. After mating, the female spends about a day depositing her egg mass, falls to the ground and dies. Neither the male or female moth feed.

Each egg mass can contain from 50-1,000 eggs. The eggs are intertwined in a matting of hair from the body of the female. The hair is a tan-buff color and helps insulate eggs.

The egg masses begin hatching the following May. Hatching coincides with the bud break of aspen and the flowering of serviceberry.

Homeowners are encouraged to search out and destroy egg masses. This is accomplished by scraping them from the surface to which they are attached into a coffee can or similar receptacle. They can be buried or burned. Remember that each egg mass destroyed probably eliminated 400-500 caterpillars. Destroying egg masses is not a cure all. Many times egg masses are overlooked or inaccessible. However, it is a very good and certainly very cheap way to significantly impact the gypsy moth population in your yard and neighborhood.

Continued on page 3

### Barrier Bands

Sticky, or slippery bands can be placed around tree trunks to help curtail, though not necessarily prevent, the caterpillars movement into and out of the tree canopy.

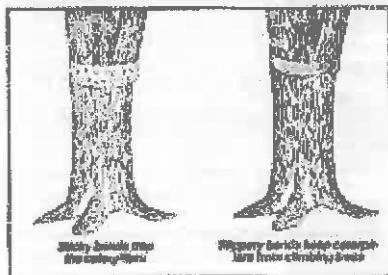
Sticky bands can be purchased or made using a nonporous material that can be wrapped around a tree trunk, then coated with a commercially made, vegetable-based sticky material. **Never put sticky material directly on the tree trunk.** This will permanently stain the bark and may harm the tree.

Sticky bands should not be put on the tree until the caterpillars are about an inch long. Smaller caterpillars usually stay in the tree canopy. Sticky bands eventually lose their effectiveness due to rain and other weather factors, the sticky material has to be reapplied periodically. Bands covered completely with caterpillars need to be cleaned or replaced.

Slippery bands are also intended to interrupt the daily migration of the caterpillar. They prevent the caterpillar from climbing up into the canopy.



Gypsy moth caterpillars use cloth bands to hide during daylight hours. Scrape the caterpillars into a bucket of soapy water.



### Hiding Bands

Cloth, or hiding bands, can be homemade from medium weight dark cloth about 12 to 18 inches wide and long enough to completely wrap

around the tree. Fasten each band at chest height around the tree with twine, cord or wire about midway from the bottom of the cloth. Then fold the top part of the cloth down over the bottom half.

Caterpillars descending the tree in the morning in search of a secluded daytime resting spot will hide under the flap of the band. Remove and destroy caterpillars each day by scraping them into a bucket of soapy water.

### Pesticide Techniques

#### Biological Pesticide

Many pesticides are registered for use against gypsy moth in Michigan. A biological pesticide commonly used on gypsy moth is *Bacillus thuringiensis* var. *kurstaki*. B.t. is a common soil bacteria. It is commercially formulated and sold under various labels (e.g., Dipel, Foray, Thuricide and Bactur to name a few). B.t. can be applied from the ground or by aerial spraying.

B.t. formulations are quite safe to humans. There is no apparent human toxicity, although there have been rare cases of allergic reaction by humans to certain formulations of B.t. In fact, B.t. is only known to be toxic to the caterpillars of moths and butterflies. While there are many species of caterpillars affected by B.t., this pesticide is the most "selective" product available.

To be effective in minimizing defoliation, B.t. must be applied when caterpillars are less than one inch long. As caterpillars get larger, the efficacy of B.t. diminishes. B.t. has a reported residual activity (i.e. how long it remains potent) of about a week. It is broken down by sunlight. In instances where there are very high gypsy moth populations, two applications five days apart might be needed.

Most chemical pesticides are 95% - 99% effective. B.t.k. is probably is 80% - 85% efficient in field applications. This is a desirable attribute of B.t.k.. That may sound like a contradiction, but it isn't. pesticides that are highly efficient will eventually work against the pest manager. Insects, through natural selection, will develop resistance to the pesticide. By

leaving 15% of the population intact, selection for resistance is slowed. B.t.k. has been used against gypsy moth for over twenty-five years and no resistance has been discovered. There is, quite naturally, a trade off. When B.t.k. is applied there are still some caterpillars crawling around. However, nuisance is reduced to a minimum, defoliation lowered below damaging levels.

#### Soap and Water

In addition to destroying egg masses, homeowners can use other non-pesticide methods to reduce defoliation of their yard trees.

Watch for the appearance of the small caterpillars in the spring. A garden hose has sufficient water pressure to knock them off the foliage. Spraying them with water under pressure kills many of them.

Garden centers carry various brands of "insecticidal soap." An insecticidal soap is not a soap with a synthetic insecticide but instead refers to the ability of the soap to kill certain insects. Spraying gypsy moth caterpillars with a hose with an attachment to dispense soap can be effective. Always follow label directions on the insecticidal soap container. Small and large caterpillars can be drowned when submerged into a bucket of soapy water.

#### Chemical Insecticides

A number of chemical pesticides are registered against gypsy moth in Michigan. Many are available at your local garden center or nursery. Some of the most common are formulations of acephate, carbaryl, and malathion.

If you choose to use chemical insecticides, apply them judiciously and wisely. Besides gypsy moth they can have a potential impact on a variety of beneficial insects, including valuable predators, parasites and honeybees.

Regardless of what insecticide you choose, read the label instructions and follow them exactly. If you have any potential personal health concerns regarding pesticides, discuss them with a physician or contact your local health department.

# Trees and shrubs defoliated by gypsy moth

Although gypsy moth caterpillars feed primarily on deciduous tree species such as oak or aspen, this insect is known for its wide-ranging appetite. When populations of gypsy moth are very high, the caterpillars quickly devour the leaves of their preferred host tree species. Once their favored food source disappears, the hungry caterpillars do not hesitate to seek out new sources of food. When this occurs, almost any deciduous or conifer tree, shrub or other landscape plant may be at risk of suffering some amount of defoliation.

Consequently, it is difficult to state exactly how susceptible a tree or shrub species is to defoliation by gypsy moth caterpillars. Therefore, the following list is offered only as a guide to homeowners. This list does not guarantee that any species listed as minimally at risk will never be defoliated by the gypsy moth.

More importantly, homeowners need to recognize that gypsy moth caterpillars do have preferences for certain types of trees and thrive best on those species. Typically these favored food sources are usually the first ones attacked in a homeowner's yard, especially tall, large crowned trees. These are the trees most likely at risk to defoliation.

Generally speaking, when gypsy moth caterpillars move into less preferable food sources, the caterpillars do not thrive as well and often only cause minor damage.

However, regardless of this insect's food preferences, close inspection of yard trees and outdoor fixtures and prompt action by the homeowner to destroy egg masses and small caterpillars is crucial. This is the real key to minimizing the discomfort and, to some degree, the defoliation caused by large numbers of gypsy moth caterpillars.

If a homeowner is able to minimize the amount of defoliation from the gypsy moth, it will lessen the overall impact on tree health. When a hardwood tree is heavily defoliated, the needed energy to regrow a new set of leaves causes stress. This stress often weakens a tree which may lead

to additional tree health problems. Moreover, conifer species, such as spruce or pine, are at greater risk than hardwoods because conifers are not able to regrow needles lost to defoliation. Thus complete defoliation of conifers by gypsy moth is usually fatal.

## Trees and Shrubs Most at Risk to Defoliation

All Oak (*Quercus*).  
All aspen and poplar (*Populus*).  
Gray, paper (white), and river birch (*Betula*).  
All willow (*Salix*).  
All apple and crabapple (*Malus*).  
All thornapple and hawthorne (*Craetagus*).  
White pine (*Pinus*).  
Blue spruce (*Picea*).  
American beech (*Fagus*).  
Basswood (*Tilia*).  
Sweetgum (*Liquidambar*).  
Juneberry or serviceberry (*Amelanchier*).  
Witch hazel (*Hamamelis*).  
Hazelnut (*Cornus*).  
Mountain ash (*Sorbus*).

## Trees and Shrubs Somewhat at Risk to Defoliation

Black walnut and butternut (*Juglans*).  
All cherry and plum (*Prunus*).  
Norway, red and sugar maple (*Acer*).  
Hophornbeam or ironwood (*Ostrya*).  
Alder (*Alnus*).  
Elm (*Ulmus*).  
Hickory (*Carya*).  
Eastern redbud (*Cercis*).  
Sassafras (*Sassafras*).  
Paw paw (*Asimina*).  
White and Norway spruce (*Picea*).  
Balsam fir (*Abies*).  
Eastern hemlock (*Tsuga*).  
Red, jack, scotch and Austrian Pine (*Pinus*).

## Trees and Shrubs at Minimal Risk to Defoliation

Ash (*Fraxinus*).  
Tulip tree or yellow poplar (*Liriodendron*).  
Sycamore and London plane tree (*Plantanus*).  
Northern catalpa (*Catalpa*).  
Honey locust (*Gleditsia*).  
Black locust (*Robinia*).  
Horsechestnut (*Aesculus*).  
Dogwood (*Cornus*).



Gypsy moth caterpillars prefer to eat leaves of certain tree species, including poplar.

Eastern redcedar (*Juniperus*).  
Juniper (*Juniperus*).  
Yew (*Taxus*).  
Lilac (*Syringa*).  
Azalea (*Azalea*).  
Rhododendron (*Rhododendron*).  
Arborvitae (*Thuja*).  
Viburnum (*Viburnum*).

Homeowners considering planting trees or shrubs in areas prone to high gypsy moth population build-ups should choose species that are at minimal risk to defoliation. Contact your local MSU Extension office for bulletins and information on tree selection, planting and care.



## Be careful about quick fixes for your gypsy moth problem

Struggling with the effects of the gypsy moth can be frustrating enough without unscrupulous people trying to take advantage of the homeowner by offering quick fixes.

There are no quick fixes, declares Russell Kidd, MSU Extension district forestry agent in Roscommon County.

He advises homeowners to be wary of products or services that promise or imply they can end gypsy moth problems in the backyard or woodlot.

Be careful of salespeople who want to spray your trees with chemicals that are "guaranteed" to control the gypsy moth. In some cases, these may be worthless or even dangerous.

Homeowners should ask what chemical is to be used, its hazard, what its effect will be and what precautions will be taken to minimize spray drift to nearby objects.

Homeowners should also ask to see proof that the company and the individual are certified and licensed to

apply such a material. Michigan law requires that commercial pesticide spraying companies be certified and licensed by the Michigan Department of Agriculture.

Remember that chemical sprays are effective only during the caterpillar stage of the gypsy moth. Spraying trees before the eggs hatch or after the caterpillars have pupated or emerged as adults moths is worthless. (See the gypsy moth life cycle chart).

Be wary of unrealistic claims about products or techniques to rid your property of the gypsy moth by themselves.

Some products, such as sticky bands, are indeed useful, but they will not control the gypsy moth completely, especially when used alone. Only a combination of control treatments, used diligently by the homeowner, will achieve satisfactory control of the gypsy moth.

Other products may not do what their names imply. Take, for instance, the gypsy moth trap. The

purpose of the trap is to attract and capture the adult gypsy moth.

Traps are used to monitor gypsy moth populations. They will not control or eliminate next year's gypsy moth problem in your yard because one adult male moth can mate with many female moths and one or two traps will not capture enough males to interfere with mating or cause the population to decline significantly next year.

Be very careful about timber buyers who offer to buy standing trees that have been defoliated. Unscrupulous timber buyers may use gypsy moth infestations in an area as a scare tactic to persuade people to sell valuable timber at low prices before the tree die.

Timber owners should always consult with professional foresters before they decide to sell any standing timber.

Your county MSU Extension office can provide the names of professional foresters in your area.



### *Be careful with pesticides!*



*Use proper recycling procedures for disposing of pesticide containers.*

This publication contains pesticide recommendations based on research and pesticide regulations. However, changes in pesticide regulations occur constantly. Some pesticides mentioned may no longer be available, and some may no longer be legal. If you have questions about the legality and/or registration status for using pesticides, contact your MSU Extension county office.

To protect yourself and others and the environment, always read the label before applying any pesticide. For information about pesticide labels see Extension Bulletin E-2182 *Reading a Pesticide Product Label*.

For more information about pesticide safety, see Extension Bulletin E-2215, *Using Pesticides Safely: A Guide for the Applicator*; Extension Bulletin E-1546 *Take Cover! Protect Yourself from Exposure (Pesticides)*.

For more information about safe disposal of pesticide containers see Extension Bulletin AM-95 *Rinsing and Recycling Pesticide containers*.

***Dozens of other Extension bulletins on safe application of pesticides are also available.***

# Gypsy Moth Life Cycle

**1) Small Larvae.** This stage lasts for 7-10 days after eggs hatch in early May (or sooner in warmer weather). Larvae are less than 1/2 inch long and usually black. They linger around the egg cluster for several days if the weather is cool or rainy, then climb trees or other objects, trailing silken threads as they move. When the larvae reach the top of the tree, they do not feed but drop on silken threads and are dispersed by the wind.

**2) Large Larvae.** Feeding at night for 4 to 6 weeks, large larvae generally rest during the day unless populations are very large, then they wander constantly. They grow until they are about 2 inches long.



1. Small Larvae—May



2. Large Larva—June



3. Pupae—July



4. Adults—August

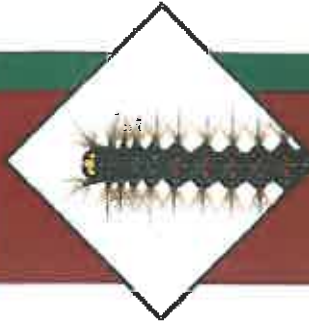


5. Egg masses—August

**3) Pupae.** During this stationary stage the larvae are changing into moths. This generally occurs from the end of July until early August. After about 10 days in the dark colored pupal cases, the adult moths emerge, leaving the pupal cases behind.

**4) Adults.** The female moth is creamy white and does not fly but emits a chemical called a pheromone to attract a male moth. The male is brownish and flies in a zigzag pattern looking for the female. A single male can mate with many females. Both sexes have chevron markings (V or notch-shaped marking) on each forewing.

**5) Egg masses.** The buff-colored egg masses contain between 50 and 1,500 eggs. The female deposits the eggs on any convenient surface. The masses are usually covered with hairs from the female's abdomen. The egg masses are quite cold resistant and can survive temperatures as low as -20 degrees F. Egg masses hatch during May.



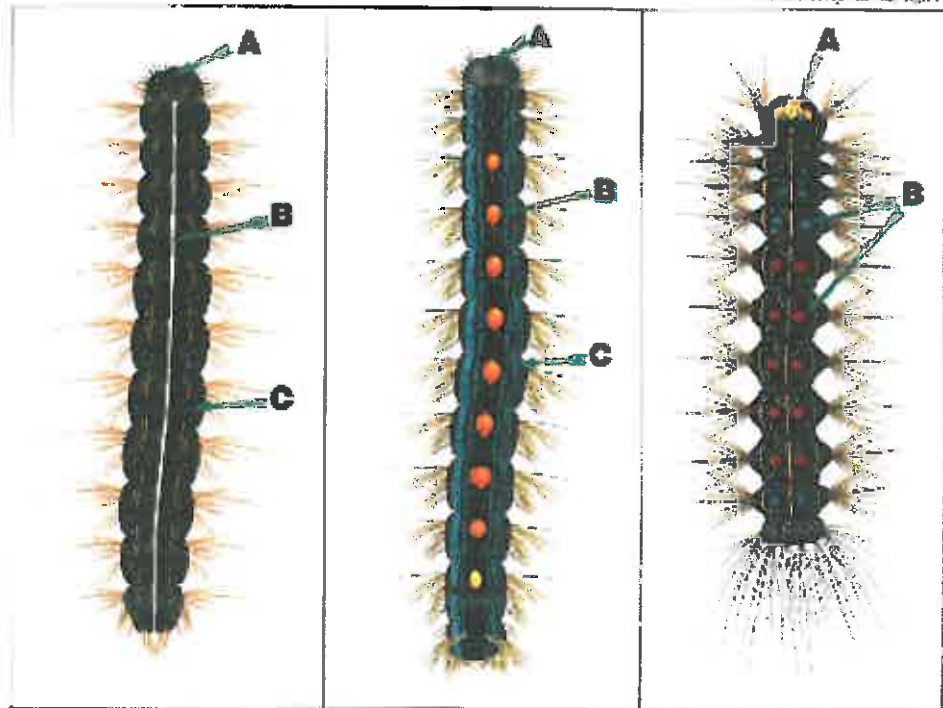
## Comparison of the Eastern Tent Caterpillar, Forest Tent Caterpillar and Gypsy Moth

Michigan State University Extension

**T**hese three insects are often found feeding on the leaves of hardwood trees early in the summer. They can be easily confused with one another. The illustrations and information here will help you to identify which caterpillar is feed-

ing on your trees. Contact your local MSU Extension office or regional Dept. of Natural Resources office for more information on the biology and management of these insects.

Illustrated by Anne Geringer



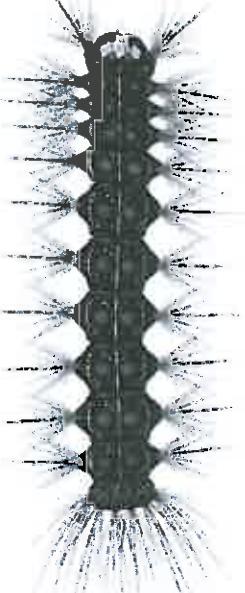





	<b>Eastern Tent Caterpillar</b> <i>Malacosoma americanum</i>	<b>Forest Tent Caterpillar</b> <i>Malacosoma disstria</i>	<b>Gypsy Moth Caterpillar</b> <i>Lymnaea dispar</i>
<b>Markings</b>	<b>A)</b> Dark head; <b>B)</b> prominent white or yellow stripe down the center of the body; <b>C)</b> small blue spots to the side.	<b>A)</b> Blue head; <b>B)</b> prominent central row of white or yellow markings in keyhole or footprint shape; <b>C)</b> bluish on sides of body.	<b>A)</b> Yellow head with black markings; <b>B)</b> prominent blue and red spots.
<b>Tents</b>	Prominent silk tents at branch junction.	They do not spin silk tents; resting sites on leaves may have small silk layer.	No silk tents.

(2/02)



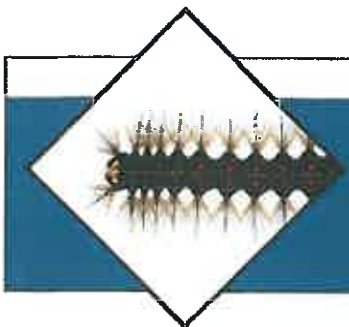
## Comparison of the Eastern Tent Caterpillar, Forest Tent Caterpillar and Gypsy Moth

	 <b>Eastern Tent Caterpillar</b> <i>(Malacosoma americanum)</i>	 <b>Forest Tent Caterpillar</b> <i>(Malacosoma disstria)</i>	 <b>Gypsy Moth Caterpillar</b> <i>(Lymantria dispar)</i>
<b>Egg Mass</b>	Dark, spindle-shaped mass wrapped around twigs; rough varnished texture. 	Similar to eastern tent caterpillar. 	Tan color; covered with fine hairs; 1 to 3 inches long; usually on tree bark. 
<b>Preferred Host Trees</b>	Black cherry, apple, crabapple.	Aspen, sugar maple, oaks, birch, black gum.	Oaks, aspen, birch, willow and more than 250 other species.
<b>Populations</b>	Native insect; silk tent is unattractive, but feeding rarely harms trees; common pest of ornamental trees in urban settings.	Native insect; outbreaks occur at roughly 10-year intervals and usually last 2 to 4 years; most common in forests, especially where aspen is abundant.	Exotic pest; severe defoliation during outbreaks can occur for 2 to 3 years in urban and forested areas, especially where oaks are abundant.

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## *Entomophaga maimaiga* - A Natural Enemy of Gypsy Moth

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The gypsy moth (*Lymantria dispar* L.) is an exotic pest of urban and forest trees. Gypsy moth caterpillars feed on the leaves of oaks, aspens, and many other hardwood and conifer trees. During gypsy moth outbreaks, trees may be completely stripped of leaves. Although gypsy moth caterpillars rarely kill trees by themselves, trees weakened by heavy defoliation may become more susceptible to drought, disease or other insect pests. In addition, the large hairy caterpillars annoy people living or recreating in outbreak areas.

Managing gypsy moth requires the integration of a variety of control tactics. Biological control, the use of natural enemies to control a pest, can be an important part of an integrated pest management program for gypsy moth. One biocontrol agent that has recently shown much promise is a fungal pathogen, *Entomophaga maimaiga*.

### Origin of *Entomophaga maimaiga*

*Entomophaga maimaiga* is a common disease in gypsy moth populations in its native country of Japan. The fungus was first released into the United States near Boston in 1910 as part of a program to introduce natural enemies of gypsy moth. Scientists could find no evidence that the fungus had become established and the project was abandoned a few years later. However, the fungus appeared unexpectedly in several northeastern states in 1989 and caused high mortality in many gypsy moth populations. Although scientists have several theories, the strange reappearance of the fungus is still a mystery.

*Entomophaga maimaiga* was first brought into Michigan in 1991 by scientists at Michigan State University and the USDA Forest Service. It was released in three sites in northern lower Michigan and monitored closely.

Additional introductions have since occurred and the fungus also is spreading naturally. *Entomophaga maimaiga* has now been found throughout most of Lower Michigan.

### Life history of *Entomophaga maimaiga*

*Entomophaga maimaiga* passes the winter as a tough, thick-walled "resting spore" in the soil and on tree bark. In May and June, resting spores germinate and produce sticky spores at the end of a stalk that grows just above the soil surface. Gypsy moth caterpillars come into contact with these spores in the spring as they search for suitable leaves to feed on. The fungus digests its way through the exoskeleton of the caterpillar and grows inside the body of the caterpillar. Infected caterpillars may die within one week.

When young caterpillars are affected early in the summer, the fungus will produce a second type of spore called conidia. These microscopic spores are spread by the wind and can infect other caterpillars. The cycle of conidia production and infection may occur four to nine times during the summer. When the fungus develops in large caterpillars, it produces the overwintering resting spores.

Weather plays an important role in determining how effective *Entomophaga maimaiga* will be. Like most fungi, its spores need moisture and high humidity to germinate. Frequent rainfall during May and June contributes to the start and spread of *Entomophaga maimaiga* through a gypsy moth population. Temperatures of 50 to 80 degrees F enhance fungal growth.



## Entomophaga maimaiga – A Natural Enemy of Gypsy Moth



Figure 1. Gypsy moth larva killed by NPV hanging in an inverted "V" position.



Figure 2. Dead larva covered with conidia of *Entomophaga maimaiga*.



Figure 3. Larvae killed by *Entomophaga maimaiga* often remain attached to trees.

### Distinguishing *Entomophaga maimaiga* from NPV

Another disease is common in outbreak populations of gypsy moth. NPV (nuclearpolyhedrosis virus) is a virus disease that often causes gypsy moth outbreak populations to collapse. One important difference between the two diseases is that NPV is seldom prevalent until gypsy moth populations reach very high levels. In contrast, *Entomophaga maimaiga* may be found even when gypsy moth populations are low.

Caterpillars killed by NPV often remain attached to the stem or branches of trees. The bodies of the dead caterpillars are soft, filled with a brown liquid and disintegrate rapidly. Usually they hang limply in an upside-down "V" position (Fig. 1).

Caterpillars killed by *Entomophaga maimaiga* will also remain attached to tree stems or branches. However, the bodies tend to be stiff and straight, and the legs extend stiffly from the body. Some of the dead caterpillars may have tiny white conidia attached to the hairs on the body (Fig. 2). The cadavers may remain on the stem well into autumn (Fig. 3).

### The future of *Entomophaga maimaiga*

*Entomophaga maimaiga* may become an important biological control of gypsy moth in both low and high populations. Infections may be more common in years with rainy spring weather than in years with dry spring weather. Scientists have found that the fungus is established in a number of areas in Michigan. Laboratory and field studies have shown that *Entomophaga maimaiga* is host specific and poses little risk to other insect populations. It will not affect other animals or humans. Introductions and evaluation will continue. Although there is not likely to be any "silver bullet" for gypsy moth, *Entomophaga maimaiga* should improve our ability to manage this pest in Michigan.

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## Gypsy Moth Populations Growing

Robert Bricault, MSU Horticulture Educator

One of the hardest lessons I learned over the years is that information taught in the past may not be remembered tomorrow. Gypsy Moth management was the central focus of my career from 1985 through 1999. I worked in landscaping in Midland and Isabella Counties when Gypsy Moths caused the first defoliation in Michigan in 1985. During the 1990's the insect moved into Southeast Michigan where it continued it's destructive pattern of ravenous eating, stripping thousands of trees of their leaves.



By 1994, Extension worked with the Michigan Department of Agriculture mapping out areas with large Gypsy Moth egg mass counts for aerial spraying with the bacteria, Bt (*Bacillus thuringiensis*). Bt did not kill the caterpillars quickly, but made them sick by changing the pH in their stomachs. Eventually they stopped eating and starved to death.

Bt helped to reduce the population not eliminate it, giving parasites, predators and pathogens a chance to develop. A pathogen called NPV, nucleopolyhedrosis virus, began killing large number of caterpillars leaving them hanging in an upside down V on tree trunks. Unfortunately, NPV only worked well when populations of the insect were very high. A real break came when a soil borne fungus, *Entomophaga maimaiga* started to kill off large numbers of caterpillars in midsummer leaving them hanging straight down on tree trunks. The fungus was effective even in sites with low numbers of Gypsy Moths present. The fungus spreads during periods of consistent rainfall in late spring and early summer. Gypsy Moth populations have been at very low numbers for the past eight years in Washtenaw County mostly due to the *Entomophaga* fungus.

The drought of 2007 reduced the development of the fungus allowing more caterpillars to survive, change into moths and lay eggs. The increasing population of caterpillars led to localized defoliation of trees. The worst damage was on Blue Spruces. Fortunately, we did experience good rainfall in June 2008, allowing the *Entomophaga* fungus to spread and kill many caterpillars. Enough Gypsy Moth did survive in 2008 to produce larger numbers of egg masses than we have seen in over six years. This may cause some localized defoliation of trees again this coming summer, increasing the need to educate residents on managing this pest.

Gypsy moth eggs hatch in mid spring usually about the time serviceberry is in bloom. People often confuse Gypsy Moth with other caterpillars that make tents or webs in trees. Gypsy Moth can hang from silk like strands from a branch but do not make webbed tents. They can spread by wind while hanging from this thread. At this early stage they are susceptible to Bt. Bt works well on young caterpillars, but is ineffective once they get beyond an inch long. Trees can be banded with burlap to trap caterpillars that seek shelter under the burlap during the day. Unfortunately, in blue spruces it is

hard to manage them through banding. Once in the moth stage Gypsy Moth does not feed. The brown male moths can be seen flying around searching for the white female moths that do not fly. The female leaves behind buff colored egg masses that are easy to see.



Fall and winter are great times to go hunting for the buff colored egg masses in trees. If you have spruces check under the branches for the egg masses. If you find egg masses on structures, outdoor furniture or trees, knock them off into soapy water. This sanitation practice greatly reduces the number of caterpillars the following year. Some of their favorite trees include oak, birch, apple, willow, hawthorn, white pine, blue spruce, serviceberry and poplars, but they will eat leaves from maples and other trees that are not their



most preferred species. If large populations are found damaging trees it may become necessary to treat the trees with an insecticide. The greatest risk is to evergreens like blue spruces and white pines that do not come back from defoliation as well as deciduous trees will. If using a pesticide make sure it is labeled for control of Gypsy Moth.

We are often asked why the county is not still part of the state's suppression program. The need for the program in Washtenaw and across Michigan declined as Gypsy Moth levels dropped very low across the state. The State's Suppression program actually ended in 2006 and also the availability of federal dollars to assist communities in aerial spray programs. The suppression program did what it was supposed to do, reducing the insects population long enough for other forces that help control Gypsy Moth to develop in our ecosystem.

Through careful monitoring, sanitation practices, banding as well as localized pesticide treatment, you can help to keep Gypsy Moth in check while allowing natural pathogens, predators and parasites to gain back a balance of control. Our hope is that nature will continue to keep Gypsy Moth populations at low levels in most years and eliminate the need for large scale spray programs. If you find large local Gypsy Moth infestations please share this information with the Horticulture staff at the MSU Extension office: 734 997-1678 or contact the Master Gardener Hotline from mid April through October at 734 997-1819.

**Gypsy moth and gardening questions phone:**  
**Washtenaw County, MSU Extension**  
**Master Gardening Hotline at: 734 997-1819**

**Master Gardener Volunteers are available:**  
**mid April through October**  
Monday through Thursday  
9:00 a.m. – 12:00 noon  
1:00 p.m. – 4:00 p.m.

*At other times phone the MSU Extension office at 734 997-1678*

## Bacillus thuringiensis

Fact Sheet No. 5.556

Insect Series | Home and Garden



by W.S. Cranshaw\*

*Bacillus thuringiensis* (Bt) is an insecticide with unusual properties that make it useful for pest control in certain situations. Bt is a naturally occurring bacterium common in soils throughout the world. Several strains can infect and kill insects. Because of this property, Bt has been developed for insect control. At present, Bt is the only “microbial insecticide” in widespread use.

The insecticidal activity of Bt was first discovered in 1911. However, it was not commercially available until the 1950s. In recent years, there has been tremendous renewed interest in Bt. Several new products have been developed, largely because of the safety associated with Bt-based insecticides.

### Properties

Unlike typical nerve-poison insecticides, Bt acts by producing proteins (delta-endotoxin, the “toxic crystal”) that reacts with the cells of the gut lining of susceptible insects. These Bt proteins paralyze the digestive system, and the infected insect stops feeding within hours. Bt-affected insects generally die from starvation, which can take several days.

Occasionally, the bacteria enter the insect’s blood and reproduce within the insect. However, in most insects it is the reaction of the protein crystal that is lethal to the insect. Even dead bacteria containing the proteins are effective insecticides.

The most commonly used strain of Bt (*kurstaki* strain) will kill only leaf- and needle-feeding caterpillars. In the past decade, Bt strains have been developed that control certain types of fly larvae (*israelensis* strain, or Bti). These are widely used against larvae of mosquitoes, black flies and fungus gnats.

More recently, strains have been developed with activity against some

leaf beetles, such as the Colorado potato beetle and elm leaf beetle (*san diego* strain, *tenebrionis* strain). Among the various Bt strains, insecticidal activity is specific. That is, Bt strains developed for mosquito larvae do not affect caterpillars. Development of Bt products is currently an active area and many manufacturers produce a variety of products. Effectiveness of the various formulations may differ.

### Disadvantages

Bt is susceptible to degradation by sunlight. Most formulations persist on foliage less than a week following application. Some of the newer strains developed for leaf beetle control become ineffective in about 24 hours.

Manufacturers are experimenting with several techniques to increase its persistence. One involves inserting Bt toxic crystal genes into other species of bacteria that can better survive on leaf surfaces (e.g., the M-Trak formulation of *san diego* strain).

The highly specific activity of Bt insecticides might limit their use on crops where problems with several pests occur, including nonsusceptible insects (aphids, grasshoppers, etc.). As strictly a stomach poison insecticide, Bt must be eaten to be effective, and application coverage must be thorough. This further limits its usefulness against pests that are susceptible to Bt but rarely have an opportunity to eat it in field use, such as codling moth or corn earworm that tunnel into plants. Additives (sticking or wetting agents) often are useful in a Bt application to improve performance, allowing it to cover and resist washing.

Since Bt does not kill rapidly, users may incorrectly assume that it is ineffective a day or two after treatment. This, however, is merely a perceptual problem, because Bt-affected insects eat little or nothing before they die.

Bt-based products tend to have a shorter shelf life than other insecticides.

### Quick Facts

- *Bacillus thuringiensis* (Bt) is a naturally occurring bacterial disease of insects. These bacteria are the active ingredient in some insecticides.
- Bt insecticides are most commonly used against some leaf- and needle-feeding caterpillars. Recently, strains have been produced that affect certain fly larvae, such as mosquitoes, and larvae of leaf beetles.
- Bt is considered safe to people and nontarget species, such as wildlife. Some formulations can be used on essentially all food crops.
- Bt is used in agriculture as a liquid applied through overhead irrigation systems or in a granular form for control of European corn borer.

\*Colorado State University Extension entomologist and professor, bioagricultural sciences and pest management. 12/2008





**Figure 1:** Alfalfa webworms killed by *Bacillus thuringiensis*.

Manufacturers generally indicate reduced effectiveness after two to three years of storage. Liquid formulations are more perishable than dry formulations. Shelf life is greatest when storage conditions are cool, dry and out of direct sunlight.

## Advantages

The specific activity of Bt generally is considered highly beneficial. Unlike most insecticides, Bt insecticides do not have a broad spectrum of activity, so they do not kill beneficial insects. This includes the natural enemies of insects (predators and parasites), as well as beneficial pollinators, such as honeybees. Therefore, Bt integrates well with other natural controls. For example, in Colorado, Bt to control corn borers in field corn has been stimulated by its ability to often avoid later spider mite problems. Mite outbreaks commonly result following destruction of their natural enemies by less selective treatments.

Perhaps the major advantage is that Bt is essentially nontoxic to people, pets and wildlife. This high margin of safety recommends its use on food crops or in other sensitive sites where pesticide use can cause adverse effects.

Bt-based products tend to have a shorter shelf life than other insecticides.

Unlike most insecticides, Bt insecticides do not have a broad spectrum of activity, so they do not kill beneficial insects.

Perhaps the major advantage is that Bt is essentially nontoxic to people, pets and wildlife.

**Table 1. Primary strains of *Bacillus thuringiensis* used in managing insects.**

<i>Bacillus thuringiensis</i> strain (Common name)	Susceptible insects
<i>aizawi</i>	Many Lepidoptera larvae
<i>kurstaki</i>	Many Lepidoptera larvae
<i>israelensis</i>	Larvae of mosquitoes, black flies, fungus gnats
<i>japonensis</i>	Larvae of scarab beetles (Coleoptera: Scarabaeidae)
<i>tenebrionis (sandiego)</i>	Larvae of leaf beetles (Coleoptera: Chrysomelidae)
<i>CryIAb delta-endotoxin<sup>1</sup></i>	Many Lepidoptera larvae
<i>Cry3Bb1 variant<sup>1</sup></i>	Corn rootworm larvae (Coleoptera: Chrysomelidae)

<sup>1</sup>Only used in production of genetically modified crops

## Insects Controlled by Bt

**Kurstaki strain (Biobit, Dipel, MVP, Steward, Thuricide, etc.):**

Vegetable insects

- Cabbage worm (cabbage looper, imported cabbageworm, diamondback moth, etc.).
- Tomato and tobacco hornworm.

Field and forage crop insects

- European corn borer (granular formulations have given good control of first generation corn borers).
- Alfalfa caterpillar, alfalfa webworm.

Fruit crop insects

- Leafroller.
- Achemon sphinx.

Tree and shrub insects

- Tent caterpillar.
- Fall webworm.
- Leafroller.
- Redhumped caterpillar.
- Spiny elm caterpillar.
- Western spruce budworm.
- Pine budworm.
- Pine butterfly.

**Israelensis strains (Vectobac, Mosquito Dunks, Gnatrol, Bactimos, etc.)**

- Mosquito.
- Black fly.
- Fungus gnat.

**San diego/tenebrionis strains (Trident, M-One, M-Trak, Foil, Novodor, etc.)**

- Colorado potato beetle.
- Elm leaf beetle.
- Cottonwood leaf beetle.

## Application

The greatest use of Bt involves the *kurstaki* strain used as a spray to control caterpillars on vegetable crops. In addition, Bt is used in agriculture as a liquid applied through overhead irrigation systems or in a granular form for control of European corn

borer. The treatments funnel down the corn whorl to where the feeding larvae occur.

Many formulations (but not all) are exempt from pesticide tolerance restrictions and may be used up to harvest on a wide variety of crops. This also makes Bt useful in applications where pesticide drift onto gardens is likely to occur, such as treating trees and shrubs. The exceptional safety of Bt products also makes them useful where exposure to pesticides is likely during mixing and application.

To control mosquito larvae, formulations containing the *israelensis* strain are placed into the standing water of mosquito breeding sites. For these applications, Bt usually is formulated as granules or solid, slow-release rings or brickettes to increase persistence. Rates of use are determined by the size of the water body. Make applications shortly after insect eggs are expected to hatch, such as after flooding due to rain or irrigation. Bt persistence in water is longer than on sun-exposed leaf surfaces, but reapply if favorable mosquito breeding conditions last for several weeks. Although the *israelensis* strain is quite specific in its activity, some types of nonbiting midges, which serve as food for fish and wildlife, also are susceptible and may be affected. For information on mosquito control, see fact sheet 5.526, *Mosquito Management*.

Use of Bt (*israelensis*) for control of fungus gnat larvae involves drenching the soil. Bt applied for control of elm leaf beetle or Colorado potato beetle (*san diego/tenebrionis* strain) is sprayed onto leaves in a manner similar to the formulations used for caterpillars. Bt does **not** control shore flies, another common fly found in greenhouses.

Colorado State University, U.S. Department of Agriculture and Colorado counties cooperating. CSU Extension programs are available to all without discrimination. No endorsement of products mentioned is intended nor is criticism implied of products not mentioned.



**CASCADE CHARTER TOWNSHIP**  
2865 Thornhills SE Grand Rapids, Michigan 49546-7140

**Date:** March 14, 2018  
**To:** Supervisor Beahan and Township Board Members  
**From:** Ben Swayze, Township Manager  
**Subject:** Water and Sewer Master Agreement with City of Grand Rapids

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**FACTS:**

Portions of Cascade Charter Township are currently served by the City of Grand Rapids water and sewer utility system. Cascade Charter Township is a retail customer community, meaning that our residents that receive service from the utility system are billed by the City of Grand Rapids, and the City of Grand Rapids owns and maintains the entire infrastructure of the system.

The contractual relationship between Cascade Township and the City of Grand Rapids is governed by the Water and Sanitary Sewer Service Agreement which was originally entered into on January 1<sup>st</sup> 1999. Since the original agreement, there have been four amendments to the agreement. Currently the agreement is set to expire December 31, 2038.

The Township, along with the other Customer Communities of the Grand Rapids utility system, has been studying over the past two years how to remove the financial barriers for residents to connect to the water and/or sewer system. At the onset of the study, it was determined that connection to the system can cost, inclusive of all fees, in excess of \$16,000 per utility. Given the replacement of a well or septic system is typically half of that, the group set forth to make recommendations on how to reduce the cost of connection. The study culminated in the *Report of the Utility Advisory Board Rate Review Sub-Committee*, which is attached for your review.

Based on the findings of the Rate Review Subcommittee, the Utility Advisory Board is proposing the *Fifth Amendment to Water and Sanitary Sewer Service Agreement with the City of Grand Rapids*. If approved, the agreement would:

- Reduce Connection Fees to \$350 per utility, plus \$175 meter charge (For residents, commercial would be more)
- Provide for non-uniform surcharge fees based on needs of industrial customers
- Clarify process for amending the customer community Utility Service District and Utility Boundary
- Clarify process for Utility Advisory Board to establish rules and regulations
- Approve Current Maps

Currently the integrated connection fees for residential water and sewer connections are \$3,016 per utility.

Attached for your review are:

- Proposed Resolution approving the *Fifth Amendment to Water and Sanitary Sewer Service Agreement with the City of Grand Rapids* as well as the amendment document itself (both clean and redline versions)
- Report of the Utility Advisory Board Rate Review Sub-Committee

### **ANALYSIS & CONCLUSIONS:**

The UAB Rate Review subcommittee spent over two years reviewing the financial barriers to connecting the utility system for residential customers. The report shows a clear need to reduce those financial barriers if we hope to see residential customers that have access to the system connect without a mandate. In addition, lowering the financial cost may provide opportunities for the customer communities to revise their own requirements for connection. Currently the Infrastructure Committee is reviewing Cascade Township connection policies and fees and may be making recommendations for changes later this year.

The proposed integrated connection fee changes will reduce the cost from (for both utilities) from \$6,032 to \$875, a reduction of 85.5%. The other changes proposed by the amendment are more housekeeping items, updating the agreement to reflect the normal operations of the utility system.

The Utility Advisory Board is currently considering proposals from marketing committees to promote the new lowered connection fees in hopes of enticing existing residences with access to the system to connect, as well as promoting the new reduced fees to potential developers.

The Infrastructure Committee reviewed the proposed amendment at their March 2018 meeting and has recommended that the Township Board approve the proposed amendment.

### **FINANCIAL CONSIDERATIONS:**

By significantly reducing the Integrated Connection Fee, the system will experience less revenue from that avenue in the system. The hope is that the loss in integrated connection fee revenue will be offset by revenues from new utility customers. Should the changes not result in an accelerated growth of the customer base, water and sewer fees would increase 1.25% and 1.34% respectively.

### **RECOMMENDED ACTION:**

To adopt the *Resolution Approving Fifth Amendment to Water and Sewer Service Agreement with the City of Grand Rapids*.

**CASCADE CHARTER TOWNSHIP  
KENT COUNTY, MICHIGAN**

**RESOLUTION NO. \_\_\_\_\_**

**RESOLUTION APPROVING FIFTH AMENDMENT TO WATER AND  
SANITARY SEWER SERVICE AGREEMENT WITH THE CITY OF  
GRAND RAPIDS**

Boardmember \_\_\_\_\_, supported by Boardmember \_\_\_\_\_, moved  
the adoption of the following resolution:

**WHEREAS**, the Township, the City of Grand Rapids (the "City") and certain other retail customer communities have previously entered into a Water and Sanitary Sewer Service Agreement dated January 1, 1999, as amended (the "Agreement"); and

**WHEREAS**, the Township, the City and certain other retail customer communities have determined to (i) amend the Agreement to provide for a new calculation of integrated connection fees and to provide for a fire protection integrated connection fee, (ii) provide that surcharges need not be uniform (iii) clarify the process of amending a Customer Community's Utility Services District (as defined in the Agreement), (iv) clarify the process of amending a Customer Community's Urban Utility Boundary (as defined in the Agreement), (v) clarify the process of the Utility Advisory Board (as defined in the Agreement) establishing rules and regulations, and (vi) approve maps identifying the current Urban Utility Boundary and Utility Services District for the Customer Communities (collectively, the "Amendments"); and

**WHEREAS**, the Amendments are contained in the Fifth Amendment to Water and Sanitary Sewer Service Agreement dated as of January 1, 2018, between the Township, the City and certain retail customer communities (the "Fifth Amendment").

**NOW, THEREFORE BE IT HEREBY RESOLVED AS FOLLOWS:**

1. That the Fifth Amendment in the form presented at this meeting is approved and the Supervisor and Township Clerk are hereby authorized and directed to execute the Fifth Amendment for and on behalf of the Township.

2. That all resolutions or parts of resolutions in conflict herewith shall be and the same are rescinded.

YEAS: Boardmember \_\_\_\_\_

NAYS: Boardmember \_\_\_\_\_

ABSTAIN: Boardmember \_\_\_\_\_

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

**RESOLUTION DECLARED ADOPTED.**

Dated: \_\_\_\_\_, 2018

\_\_\_\_\_  
Susan Slater  
Township Clerk

**CERTIFICATION**

I do hereby certify that the foregoing is a true and complete copy of a resolution adopted by the Township Board of Cascade Charter Township at a meeting held on \_\_\_\_\_, 2018, and that public notice of said meeting was given pursuant to, and in compliance with, Act 267 of the Public Acts of 1976, as amended.

Dated: \_\_\_\_\_, 2018

\_\_\_\_\_  
Susan Slater  
Township Clerk

**FIFTH AMENDMENT TO  
WATER AND SANITARY SEWER SERVICE AGREEMENT**

**between the**

**CITY OF GRAND RAPIDS  
(the “City”)**

**and**

**CASCADE CHARTER TOWNSHIP,  
GRAND RAPIDS CHARTER TOWNSHIP,  
CITY OF KENTWOOD  
TALLMADGE CHARTER TOWNSHIP  
CITY OF WALKER, and  
WRIGHT TOWNSHIP  
(individually a “Customer Community” and  
collectively the “Customer Communities”)**

**FIFTH AMENDMENT TO WATER AND  
SANITARY SEWER SERVICE AGREEMENT**

**THIS FIFTH AMENDMENT TO WATER AND SANITARY SEWER SERVICE AGREEMENT** made and executed as of January 1, 2018 (hereinafter referred to as the “Fifth Amendment”), by and between the **CITY OF GRAND RAPIDS**, Kent County, Michigan, a Michigan municipal corporation (hereinafter referred to as the “City”), and **CASCADE CHARTER TOWNSHIP**, Kent County, Michigan, a Michigan charter township, **GRAND RAPIDS CHARTER TOWNSHIP**, Kent County, Michigan, a Michigan charter township, the **CITY OF KENTWOOD**, Kent County, Michigan, a Michigan municipal corporation, **TALLMADGE CHARTER TOWNSHIP**, Ottawa County, Michigan, a Michigan charter township, the **CITY OF WALKER**, Kent County, Michigan, a Michigan municipal corporation, and **WRIGHT TOWNSHIP**, Kent County, Michigan, a Michigan general law township (hereinafter referred to individually as a “Customer Community” and collectively as the “Customer Communities”).

**RECITALS**

A. The City and the Customer Communities have entered into a Water and Sanitary Sewer Service Agreement dated as of January 1, 1999, amended by a First Amendment to Water and Sanitary Sewer Service Agreement dated as of March 28, 2000, a Second Amendment to Water and Sanitary Sewer Service Agreement dated as of July 1, 2002, a Third Amendment to Water and Sanitary Sewer Service Agreement dated as of December 1, 2006, and a Fourth Amendment to Water and Sanitary Sewer Service Agreement dated as of August 1, 2010 (hereinafter referred to collectively as the “Agreements”), for the provision of public water

and/or sanitary sewer service to Users within certain designated service areas in the Customer Communities on a retail basis.

B. The City and the Customer Communities have determined to (i) amend Section 5.C. of the Agreement to provide for a new calculation of integrated connection fees and to provide for a fire protection integrated connection fee, (ii) amend Section 5.D. of the Agreement to provide that surcharges need not be uniform, (iii) amend Section 21 of the Agreement to clarify the process of amending a Customer Community's Utility Services District, (iv) amend Section 22 of the Agreement to clarify the process of amending a Customer Community's Urban Utility Boundary, (v) amend Section 23 of the Agreement to clarify the process of the Utility Advisor Board establishing rules and regulations, and (vi) approve maps identifying the current Urban Utility Boundary and Utility Services District for the Customer Communities.

**NOW, THEREFORE,** in consideration of the respective representation and agreement contained herein, the parties hereto agree as follows:

**Section 1. Amendment to Section 5.C. of the Agreement.** The first paragraph of Section 5.C. of the Agreement is amended to read as follows:

Persons in the Utility Services District in each of the Customer Communities who receive a permit to connect to the Water System and/or Sewer System before April 1, 2018, shall pay integrated connection fees in accordance with Exhibit C attached hereto and incorporated herein and those receiving permits on and after April 1, 2018, shall pay integrated connection fees in accordance with Exhibit C1 attached hereto and incorporated into the Agreement.

**Section 2. Amendment to Section 5.D. of the Agreement.** The first paragraph of Section 5.D. of the Agreement is amended to read as follows:

Industrial and commercial Users in the Utility Services District in each of the Customer Communities discharging into the Sewer System shall be charged a penalty surcharge of certain discharges that exceed certain limits. The penalty surcharges shall be as established and adjusted by the City from time to time. The penalty surcharges need not be the same for all applicable industrial and commercial Users of the Sewer System. The City may adjust or determine not to impose penalty surcharges on certain industrial or commercial Users upon determining that a User's method and/or manner of introducing such discharges into the Sewer System and the processing thereof by the Sewer System directly or indirectly reduces operating costs at the Sewer System's Water Resource Recovery Facility and/or maximizes the economic use of the Facility's capacity.

**Section 3. Amendment to Section 21 of the Agreement.** The second and third paragraph of Section 21 of the Agreement is amended to read as follows:

The City and each of the Customer Communities agree that public water and/or sanitary sewer services shall not be extended outside the boundaries of the applicable Utility Services District in such Customer Community during the term of this Agreement, *provided, however,* such boundaries shall be extended at the request of the Customer Community if (a) at least sixty-five percent (65%) of property within such District has been developed, (b) the Customer Community has adopted a zoning and planning master plan for the property it desires to add to the Utility Services District, (c) the Customer Community has adopted a utility master plan for the property it desires to add to the Utility Services District, (d) at the time of adjustment of the boundaries of the Utility Services District, the property within the new expanded Utility Services District shall not be less than forty-five percent (45%) developed and (e) the Customer Community has met all the requirements of its utility master plan related to all prior expansions of the Utility Services District, *provided, further,* that such boundaries of the Utility Services District shall not exceed beyond the limits of the Urban Utility Boundary except as otherwise provided in this Agreement. A Customer Community desiring to expand the boundaries of its Utility Services District shall submit a request to the Utility Advisory Board along with a

drawing identifying the proposed expansion area. The Utility Advisory Board shall review the request to determine whether all the requirements in the second sentence above have been met. If met, the Utility Advisory Board shall approve the request. Upon approval, the City shall prepare a revised Exhibit A1 or A2 map and revised Exhibit B map identifying the new boundaries of the Customer Community's Utility Services District. The revised Exhibit B map shall be signed and dated by an affected Customer Community representative and shall replace the Customer Community's Utility Services District Exhibit B map in the Agreement. The revised Exhibit A1 or A2 map shall replace the Exhibit A1 or A2 map currently in the Agreement. The City shall distribute the revised Exhibit A1 or A2 and revised Exhibit B maps to the Customer Communities. When determining whether sixty-five percent (65%) of the property within an existing Utility Services District has been developed, there shall be excluded from the calculation public right-of-way, land dedicated to public use as open space and land used for agricultural purposes. The property which shall be excluded from such calculation shall include, but not be limited to, those exclusions identified in the attached Exhibit F.

A Customer Community desiring to add property to the Utility Services District may do so without meeting the sixty-five percent (65%) developed requirement by removing from the Utility Services District a quantity of land equal to that to be added to the Utility Services District provided the added land is contiguous to the boundary of the existing Urban Services District. The Customer Community shall submit an adjustment request along with a drawing identifying the proposed adjustment to the Utility Advisory Board and the Board shall review the request to determine if it meets the requirement of the preceding sentence. If met, the Utility Advisory Board shall approve the request. Upon approval the City shall prepare a revised Exhibit A1 or A2 map and revised Exhibit B map identifying the new boundaries of the Customer Community's Utility Service District. The revised Exhibit B map shall be signed and dated by an affected Customer Community representative and shall replace the Customer Community's Utility Services District map in the Agreement. The revised Exhibit A1 or A2 map shall replace the Exhibit A1 or A2 map currently in the Agreement. The City shall distribute the revised Exhibit A1 or A2 and revised Exhibit B maps to the Customer Communities.

**Section 4. Amendment to Section 22 of the Agreement.** The second and third paragraph of Section 22 of the Agreement is amended to read as follows:

A Customer Community desiring to extend the boundaries of its Urban Utility Boundary shall submit a request to the Utility Advisory Board along with a drawing identifying the proposed extension area. The Utility Advisory Board shall review the request to determine if (a) the boundaries of the Utility Services District in the Customer Community have been extended to the limits of the current Urban Utility Boundary, (b) sixty-five percent (65%) of property within the Urban Utility Boundary in the Customer Community has been developed (taking into account the same exclusions as those set forth in Section 21 hereof for determining development of the Utility Services District) and (c) the Customer Community has adopted a zoning and planning master plan for the property it wishes to include within the Urban Utility Boundary. If the requirements in the preceding sentence are met, the Utility Advisory Board shall recommend approval of the request to the legislative bodies of the City and Customer Community. If both legislative bodies approve the request, the City shall prepare a revised Exhibit A1 or A2 map and revised Exhibit B map identifying the new limits of the Urban Utility Boundary. The revised Exhibit B map shall be signed and dated by an affected Customer Community representative and a City representative and shall replace the Customer Community's Exhibit B map currently in the Agreement. The revised Exhibit A1 or A2 map shall replace the Exhibit A1 or A2 map currently in the Agreement. The City shall distribute the revised Exhibit A1 or A2 and revised Exhibit B maps to the Customer Communities.

A Customer Community desiring to add property to its Urban Utility Boundary may do so without meeting the sixty-five percent (65%) developed requirement by removing from the Urban Utility Boundary a quantity of land equal to that to be added to the Urban Utility Boundary provided such land is contiguous to the boundary of the existing Urban Utility Boundary. The Customer Community shall submit its request to the Utility Advisory Board along with a drawing identifying the property proposed to be removed and the property proposed to be added to its Urban Utility Boundary. The Utility Advisory Board shall review the request to determine if the requirement in the first sentence of this paragraph is met. If met, the Utility Advisory Board shall recommend approval of the request to the legislative bodies of the City and Customer Community. If both legislative bodies approve the

request, the City shall prepare a revised Exhibit A1 or A2 map and revised Exhibit B map identifying the new limits of the Urban Utility Boundary. The revised Exhibit B map shall be signed and dated by an affected Customer Community representative and a City representative and shall replace the Customer Community's Exhibit B map currently in the Agreement. The revised Exhibit A1 or A2 map shall replace the Exhibit A1 or A2 map currently in the Agreement. The City shall distribute the revised Exhibit A1 or A2 and revised Exhibit B maps to the Customer Communities.

**Section 5. Amendment to Section 23 of the Agreement.** The following is added as a new paragraph to Section 23 of the Agreement at the end of the Section:

The Utility Advisory Board may establish rules and regulations related to the provisions of this Agreement provided such rules and regulations do not conflict or are not inconsistent with the City's adopted rules and regulations related to the operation of the Sewer System and Water System.

**Section 6. Exhibits.** The attached Exhibits A1 and A2 replace the current Exhibits A attached to the Agreement. The attached Exhibits B1 through B11 replace the current Exhibits B1 through B11 attached to the Agreement. The attached Exhibit C1 is added to the Agreement.

**Section 7. Definitions.** All terms not specifically defined in this Fifth Amendment shall have those meanings as identified or defined in the Agreement.

**Section 8. Counterparts.** This Fifth Amendment may be executed in one or more counterparts.

**Section 9. Ratification of Agreement.** Except as amended by this Fifth Amendment the Agreement, as amended by all prior amendments, is in all other respects hereby ratified and confirmed.

**Section 10. Effective Date.** This Fifth Amendment is effective as of the date set forth in the first paragraph hereof.

**IN WITNESS WHEREOF**, the City and the Customer Communities have caused these presents to be signed by their respective duly authorized officers as of the day and year first written above.

**CITY OF GRAND RAPIDS**

\_\_\_\_\_  
Rosalynn Bliss, Mayor

Attest: \_\_\_\_\_  
Darlene O'Neal, City Clerk

**CASCADE CHARTER TOWNSHIP**

\_\_\_\_\_  
Rob Beahan, Supervisor

\_\_\_\_\_  
Susan Slater, Township Clerk

**GRAND RAPIDS CHARTER  
TOWNSHIP**

\_\_\_\_\_  
Michael J. DeVries, Supervisor

\_\_\_\_\_  
Edward J. Robinette, Township Clerk

**CITY OF KENTWOOD**

---

Stephen Kepley, Mayor

---

Dan Kasunic, City Clerk

**TALLMADGE CHARTER TOWNSHIP**

---

Toby VanEss, Supervisor

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Lenore Cook, Township Clerk

**CITY OF WALKER**

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Mark Huizenga, Mayor

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Sarah Bydalek, City Clerk

**WRIGHT TOWNSHIP**

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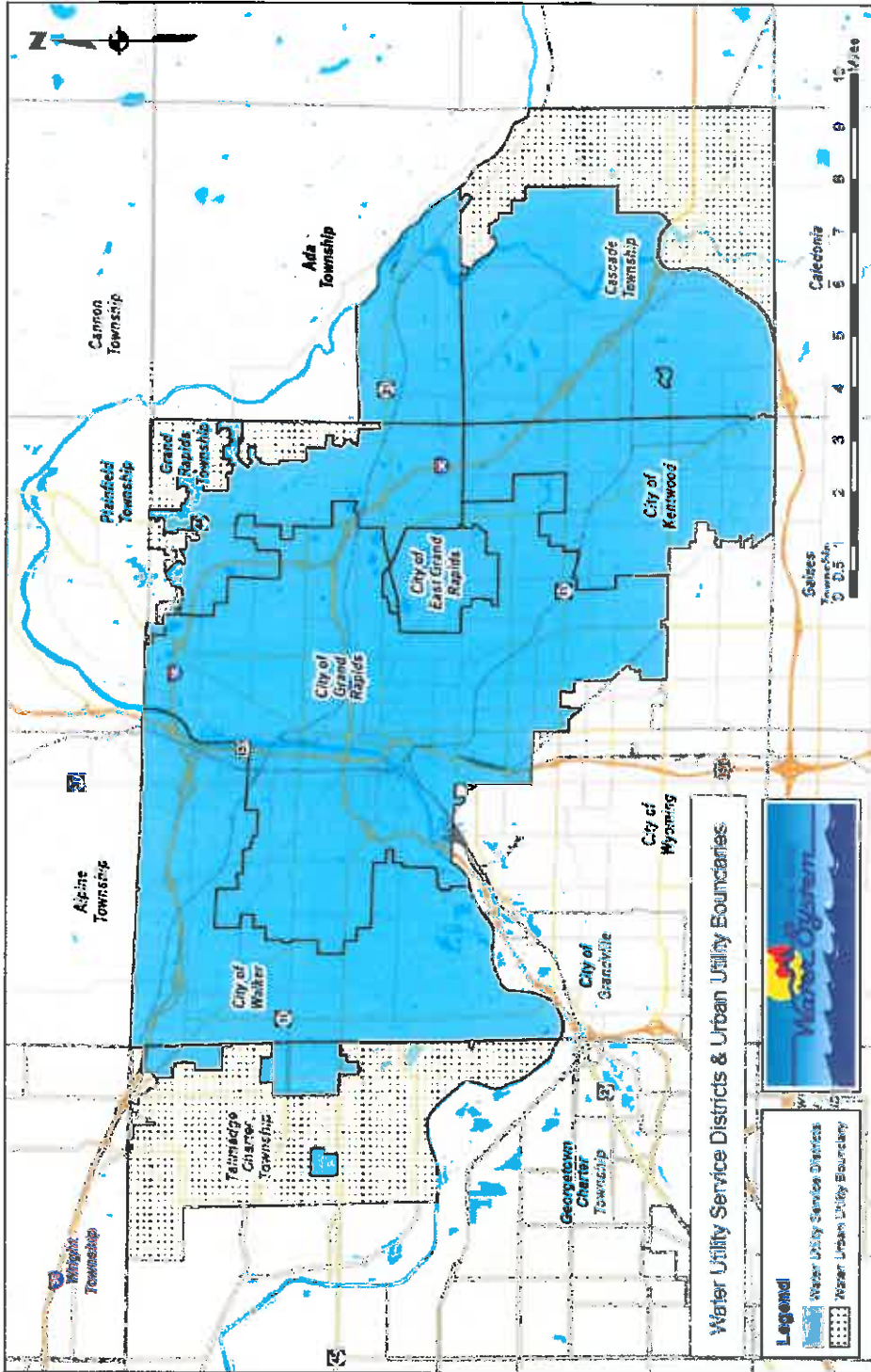
Josh Westgate, Supervisor

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Maureen Carmondy, Township Clerk

**EXHIBIT A1**

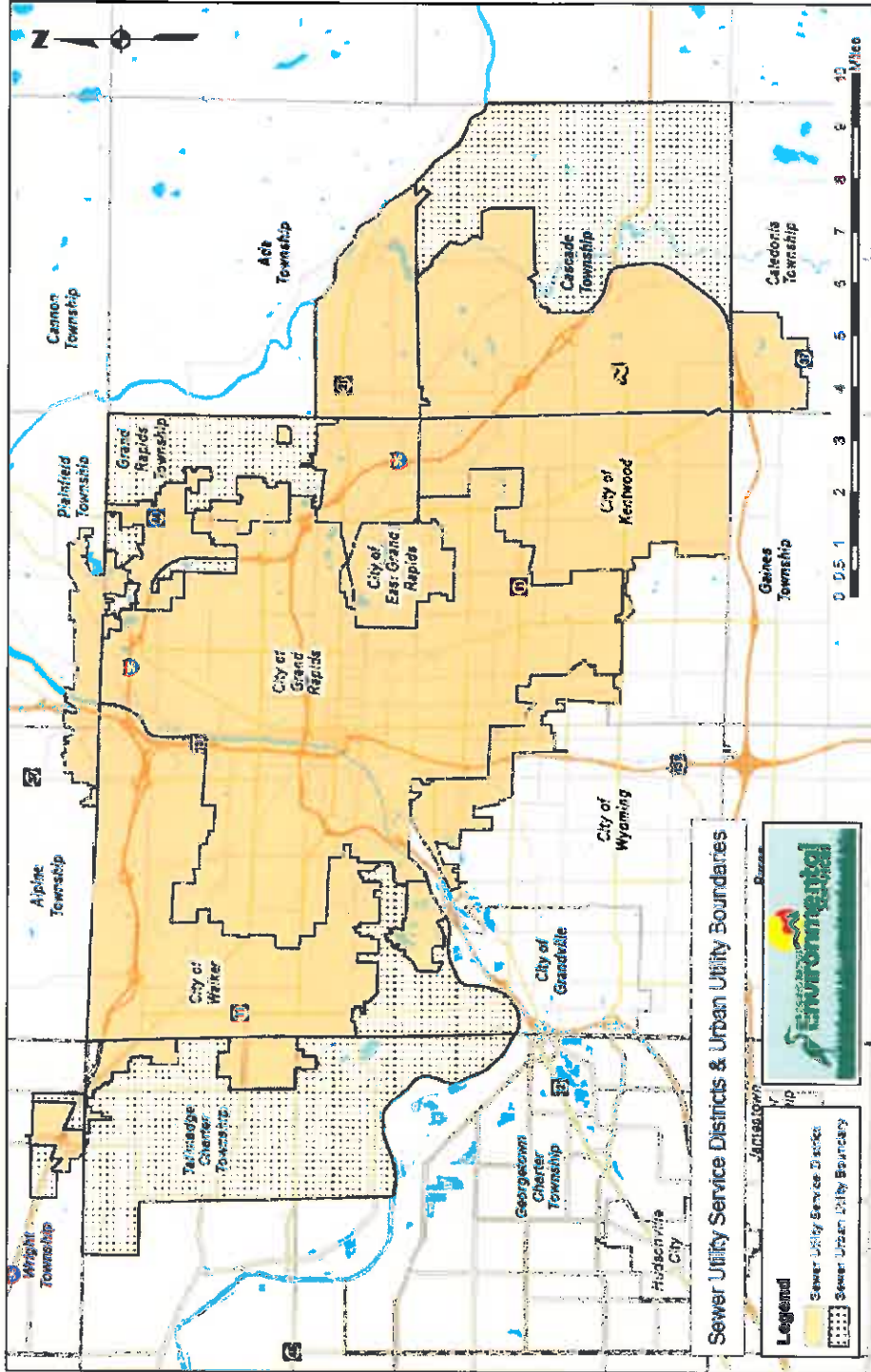
**Water Service Urban Utility Boundaries  
and Utility Services Districts Master Map**





**EXHIBIT A2**

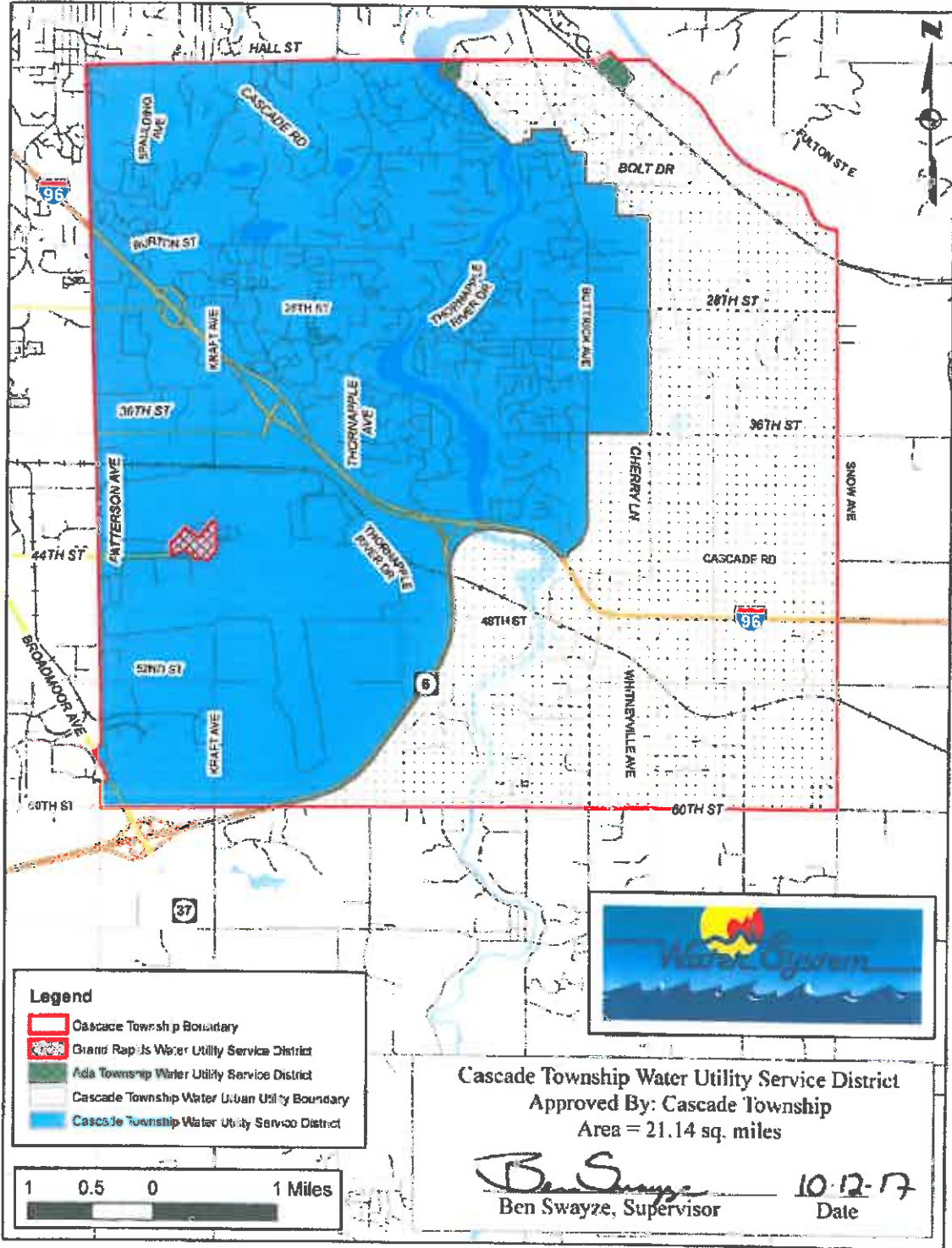
**Sanitary Sewer Service Urban Utility Boundaries  
and Utility Services Districts Master Map**





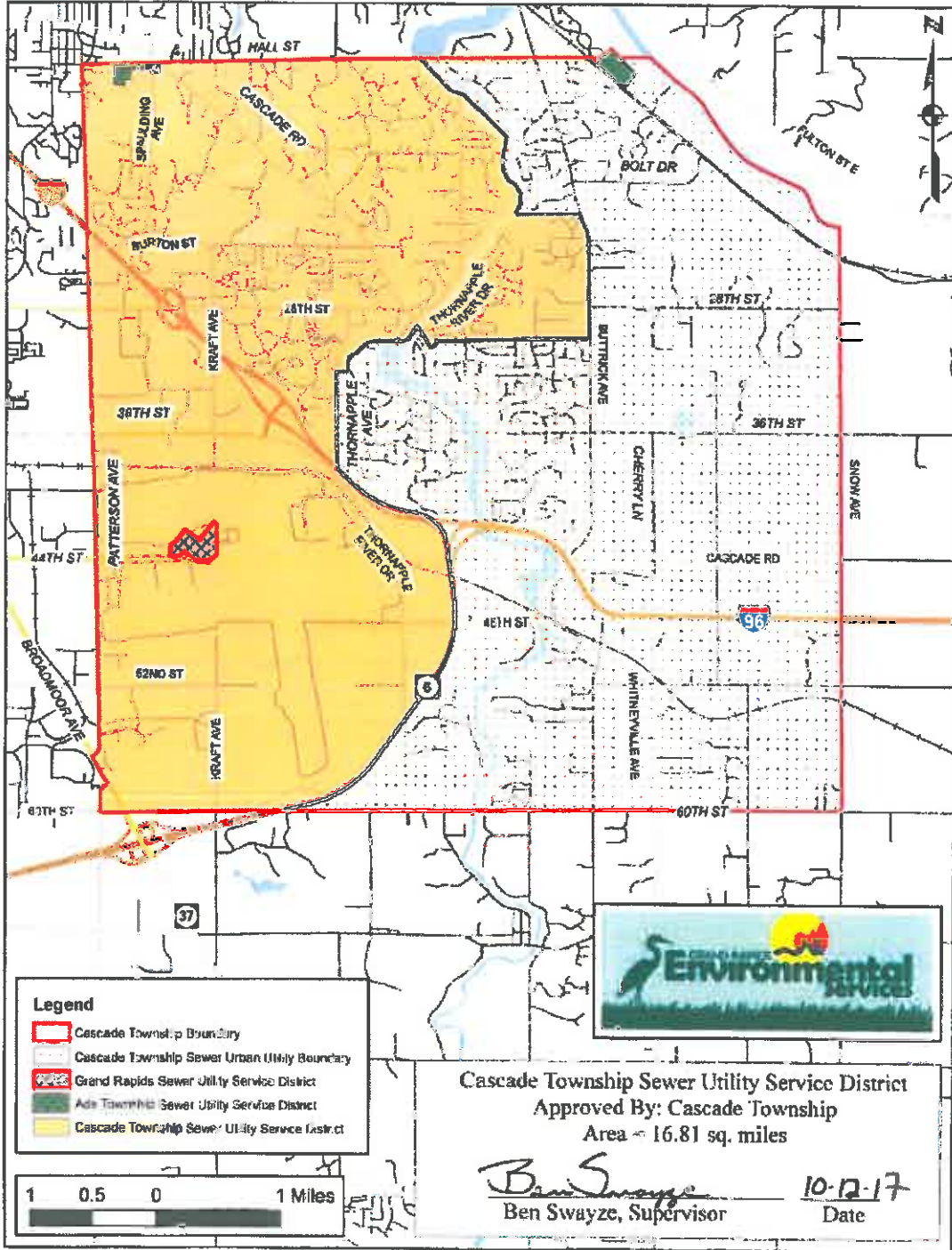
**EXHIBIT B1**

**Cascade Charter Township Water Service Urban  
Utility Boundary and Utility Services District**



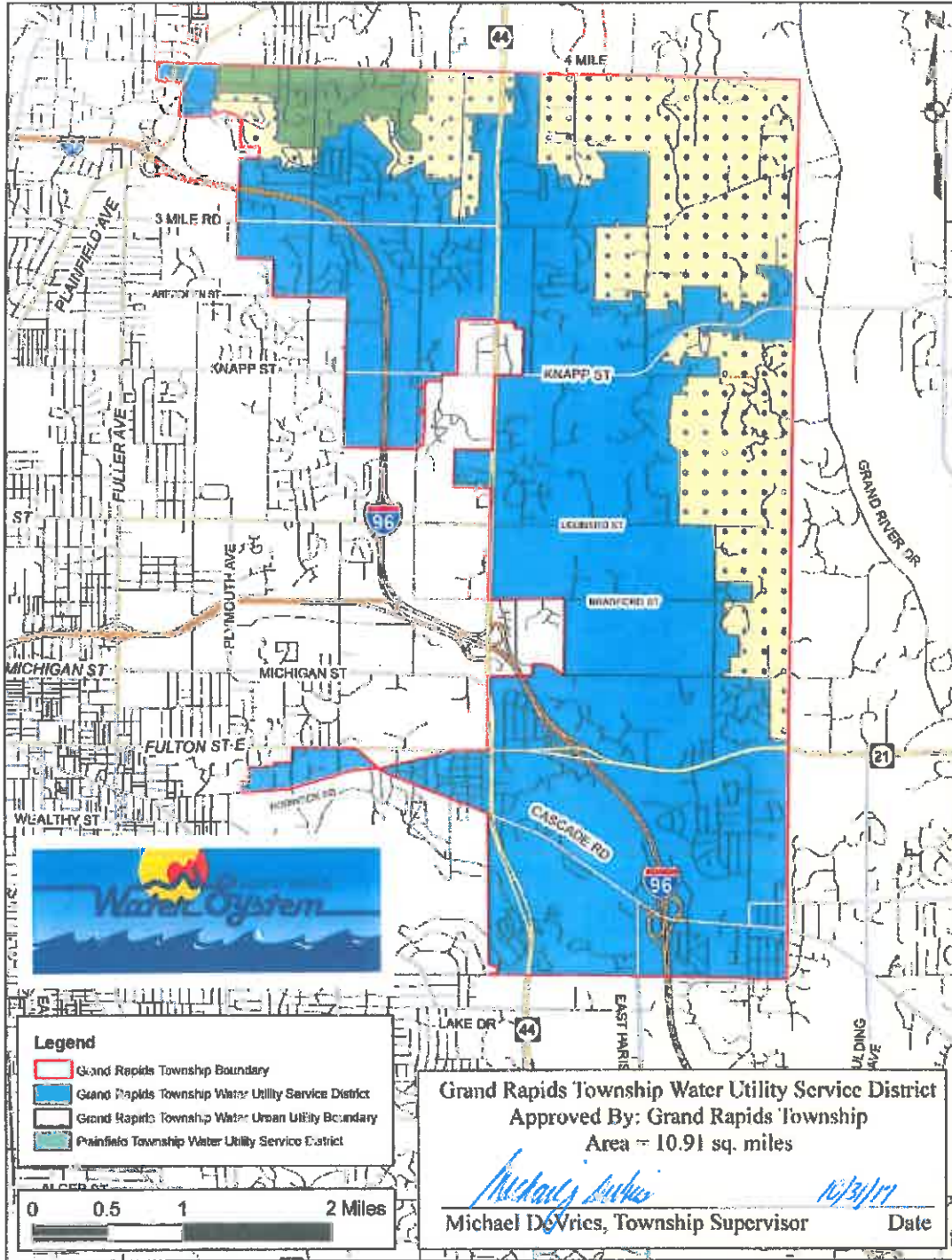
## EXHIBIT B2

### Cascade Charter Township Sanitary Sewer Service Urban Utility Boundary and Utility Services District



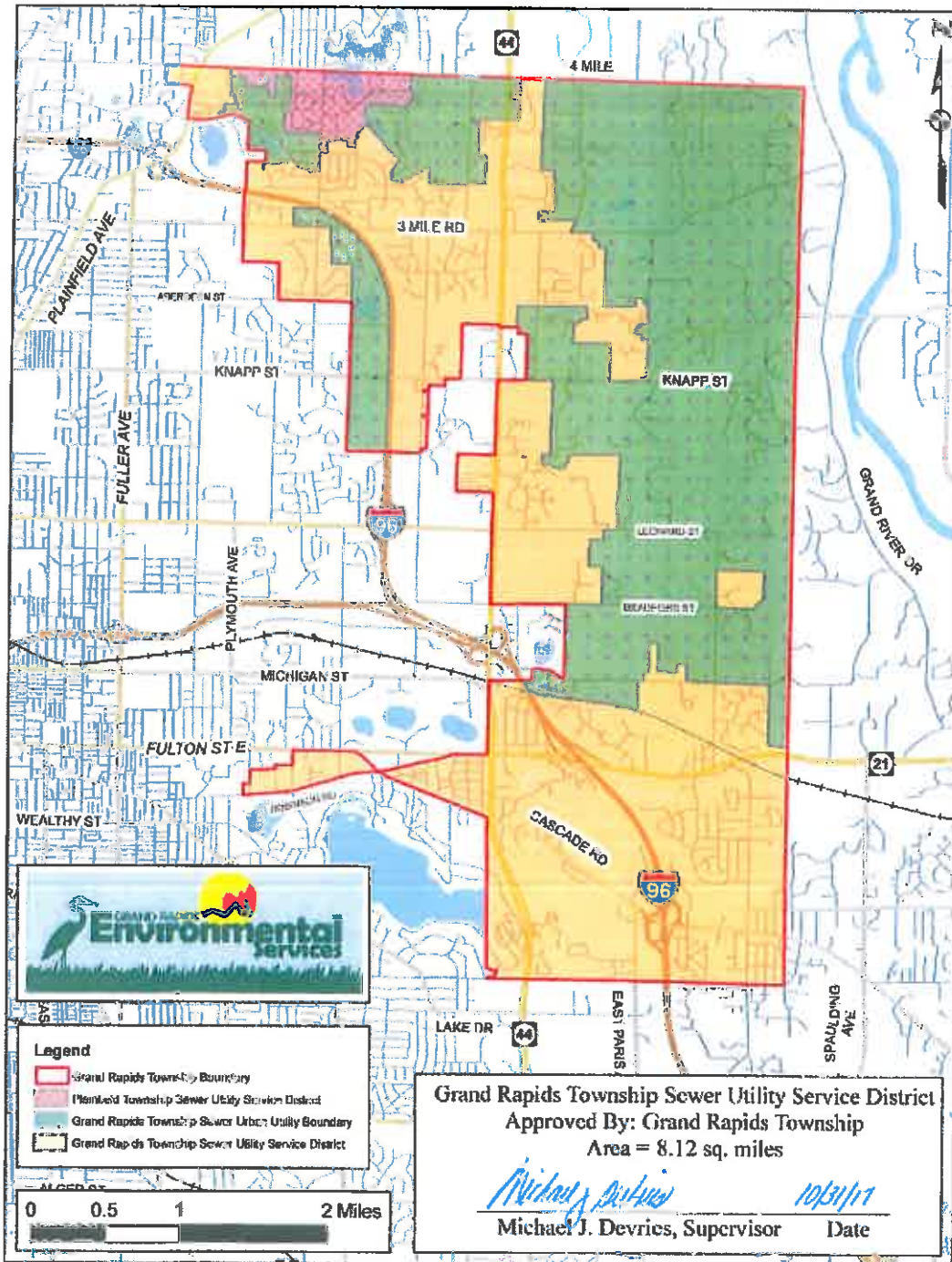
**EXHIBIT B3**

**Grand Rapids Charter Township Water Service Urban  
Utility Boundary and Utility Services District**



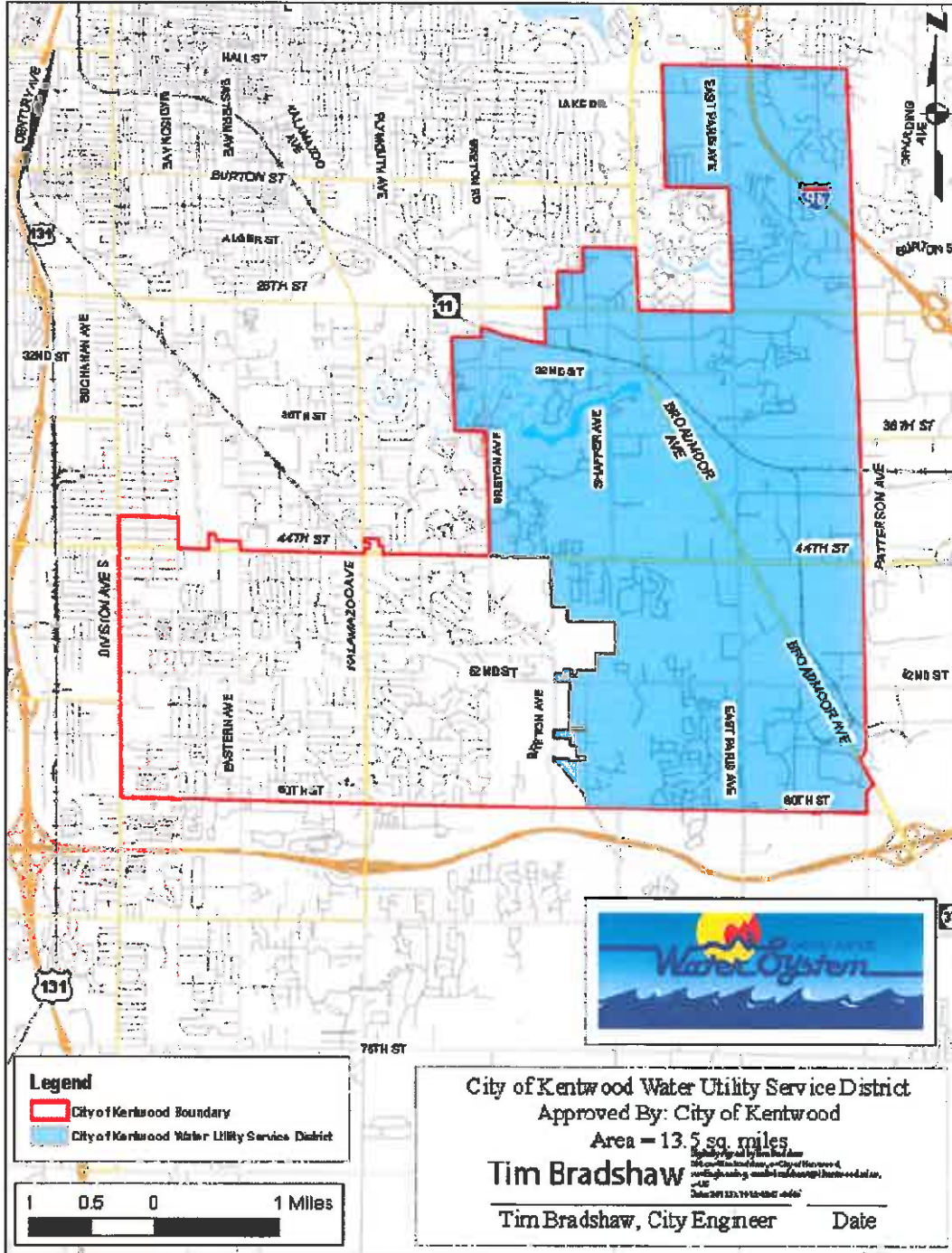
**EXHIBIT B4**

**Grand Rapids Charter Township Sanitary Sewer Service  
Urban Utility Boundary and Utility Services District**



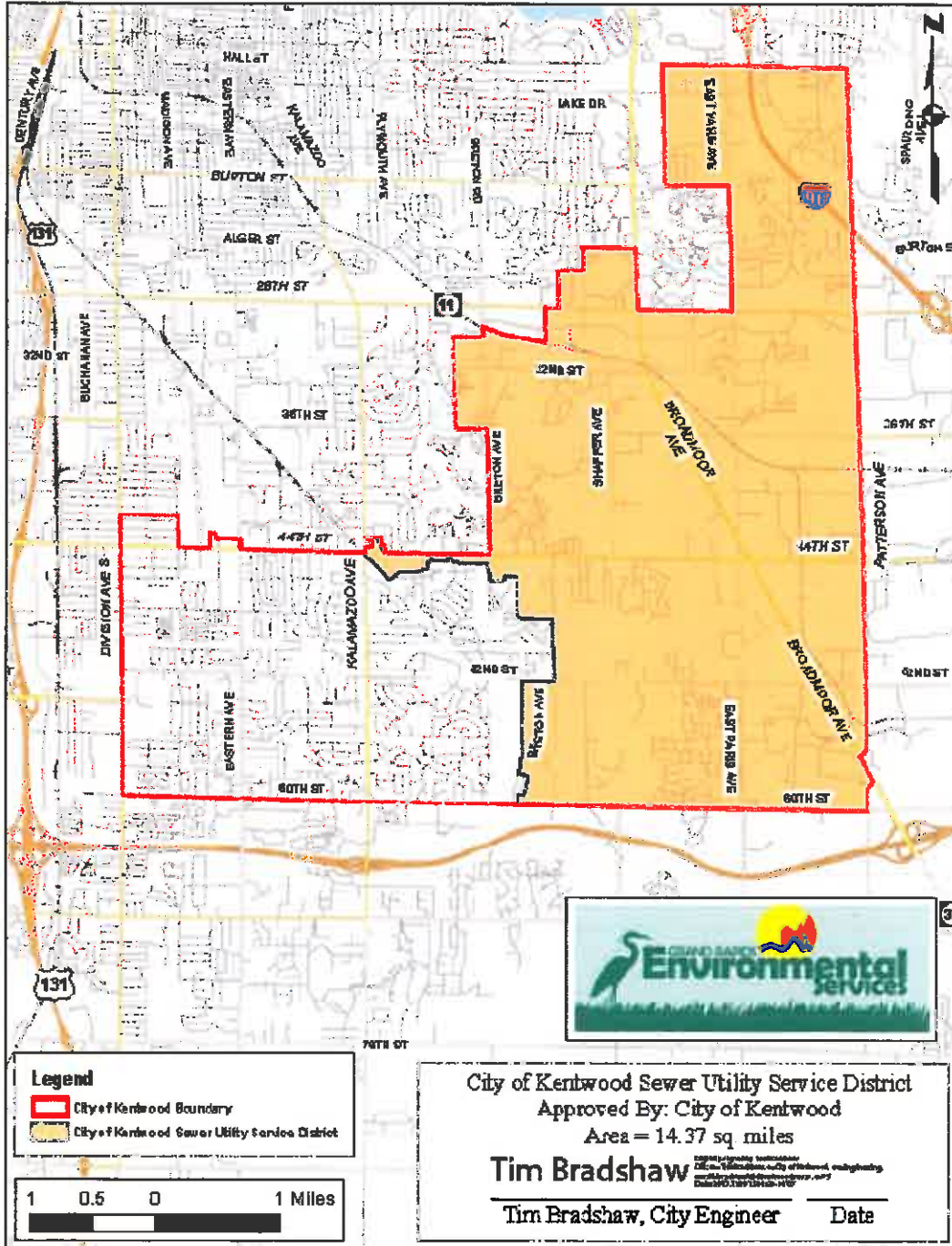
# EXHIBIT B5

## City of Kentwood Water Service Urban Utility Boundary and Utility Services District



# EXHIBIT B6

## City of Kentwood Sanitary Sewer Service Urban Utility Boundary and Utility Services District



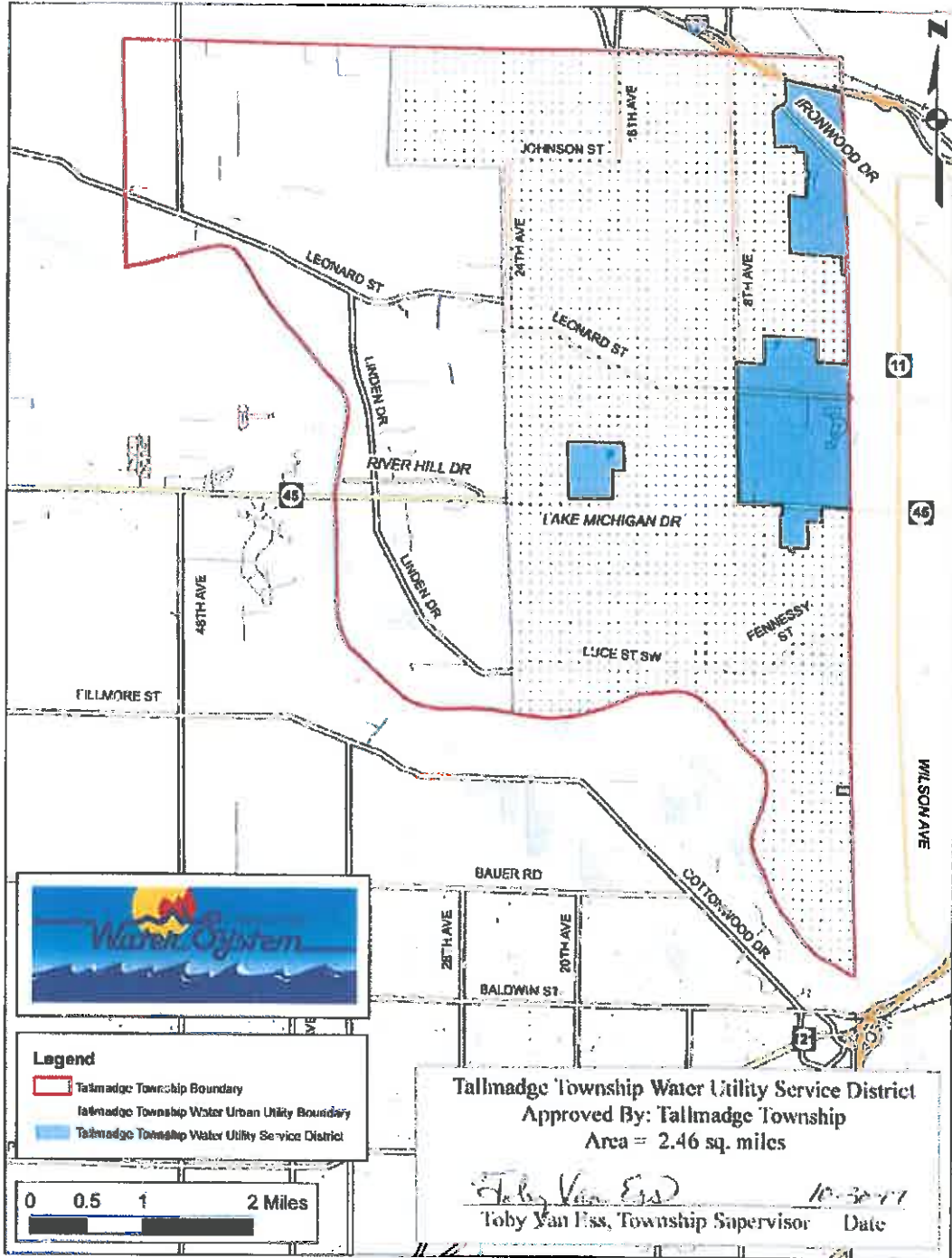
**Legend**  
 City of Kentwood Boundary  
 City of Kentwood Sewer Utility Service District



City of Kentwood Sewer Utility Service District  
 Approved By: City of Kentwood  
 Area = 14.37 sq miles  
**Tim Bradshaw**  
City Engineer  
 Tim Bradshaw, City Engineer      Date

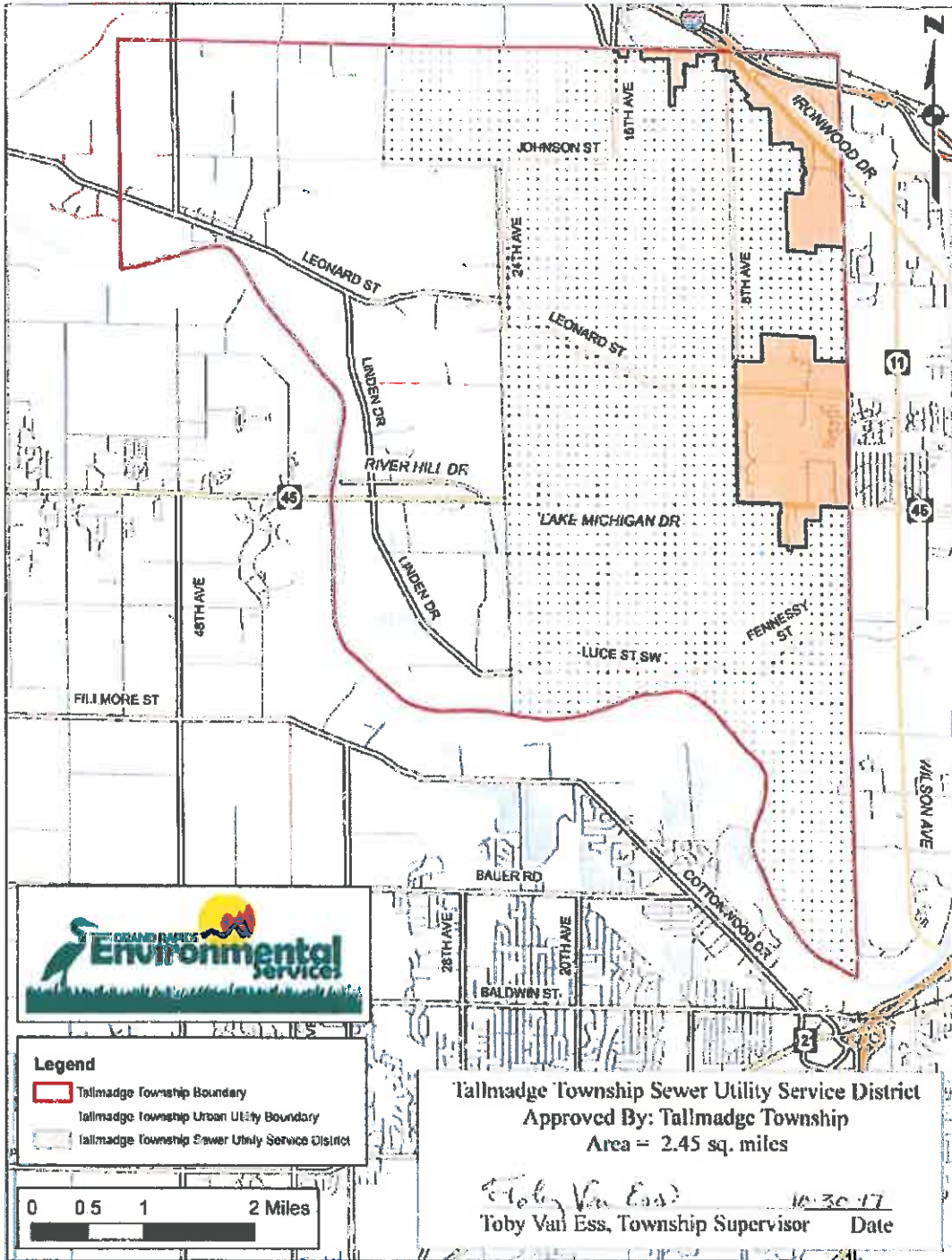
**EXHIBIT B7**

**Tallmadge Charter Township Water Service Urban  
Utility Boundary and Utility Services District**



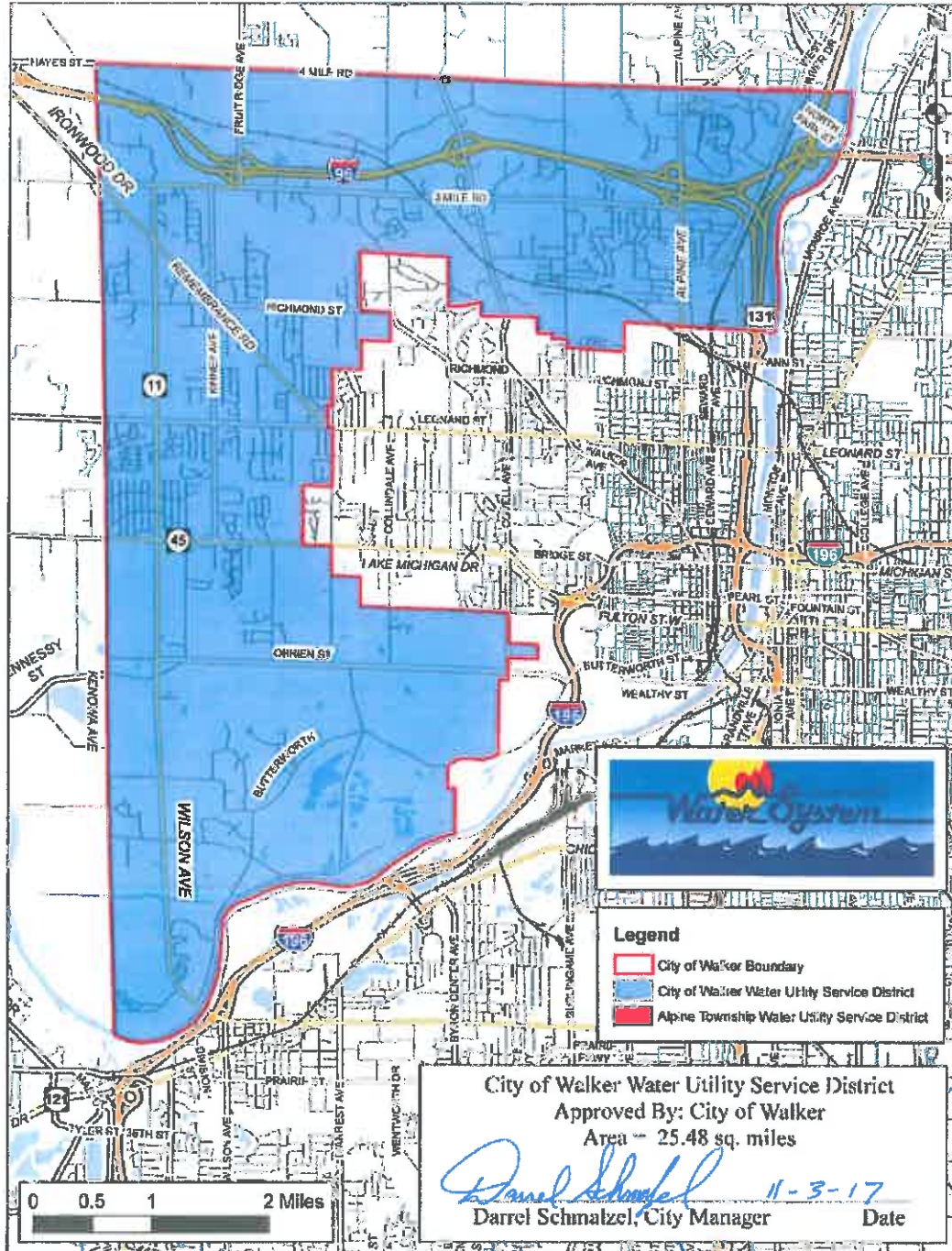
# EXHIBIT B8

## Tallmadge Charter Township Sanitary Sewer Service Urban Utility Boundary and Utility Services District



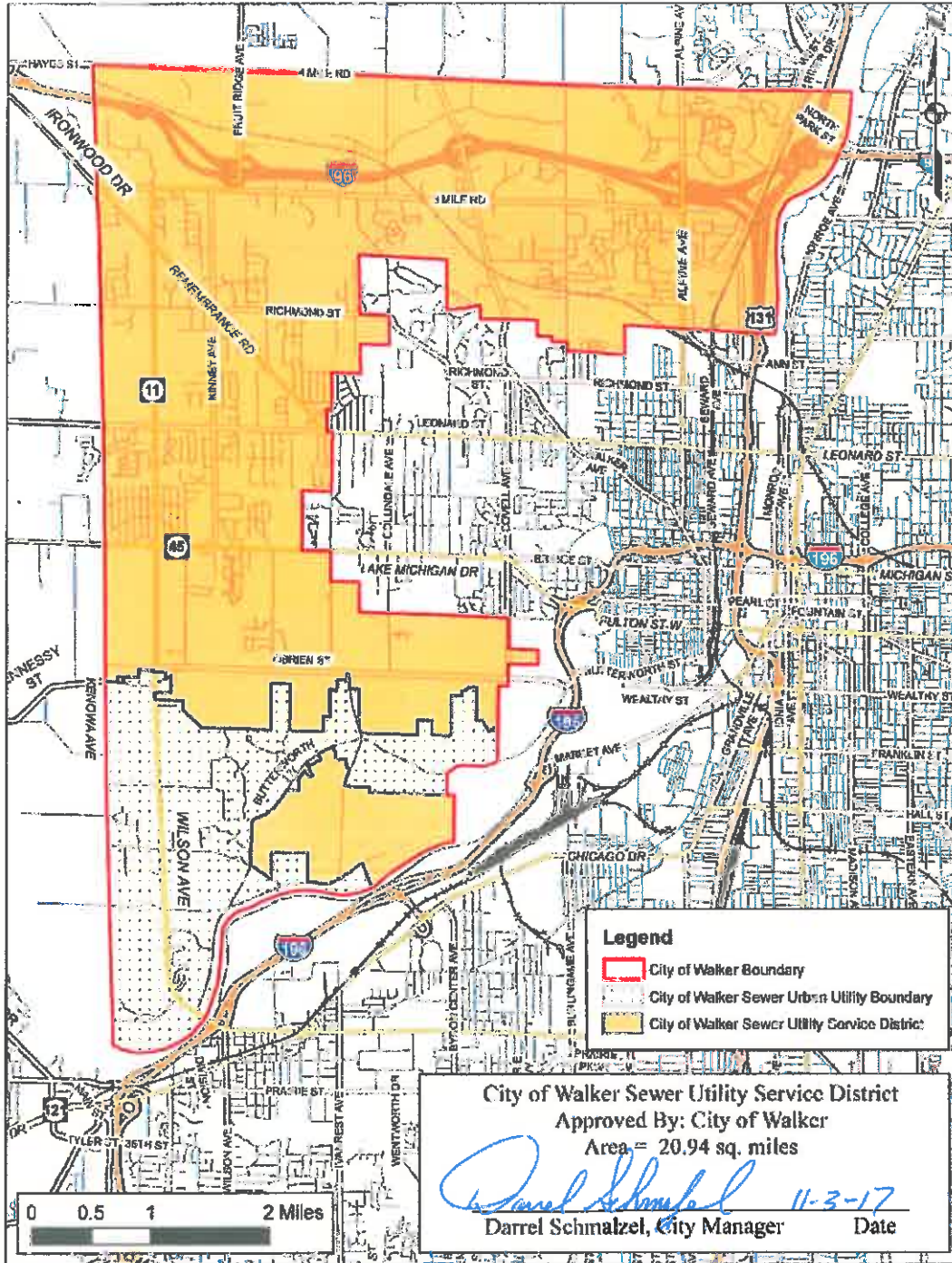
**EXHIBIT B9**

**City of Walker Water Service Urban  
Utility Boundary and Utility Services District**



# EXHIBIT B10

## City of Walker Sanitary Sewer Service Urban Utility Boundary and Utility Services District



# EXHIBIT B11

## Wright Township Sanitary Sewer Service Urban Utility Boundary and Utility Services District

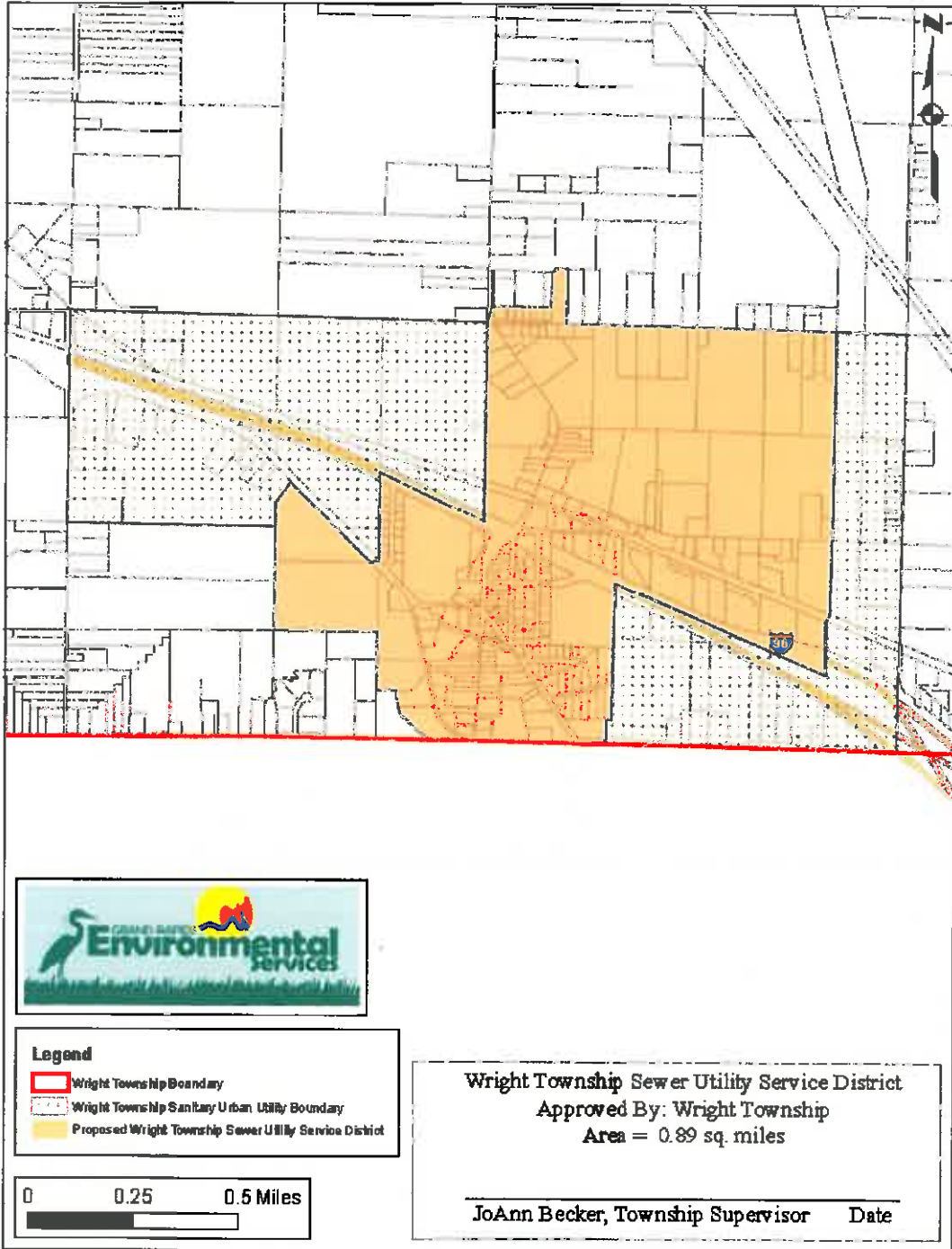
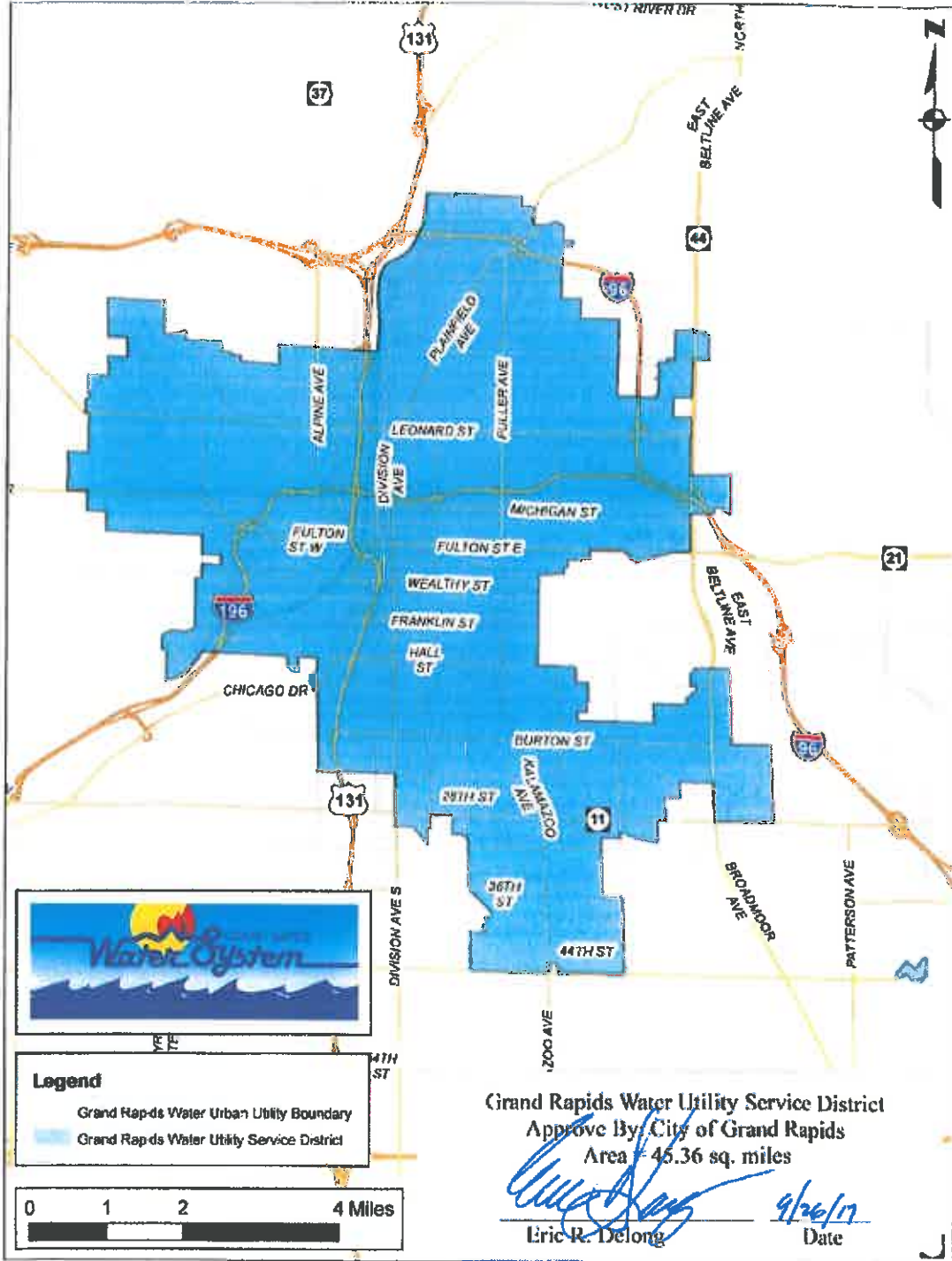


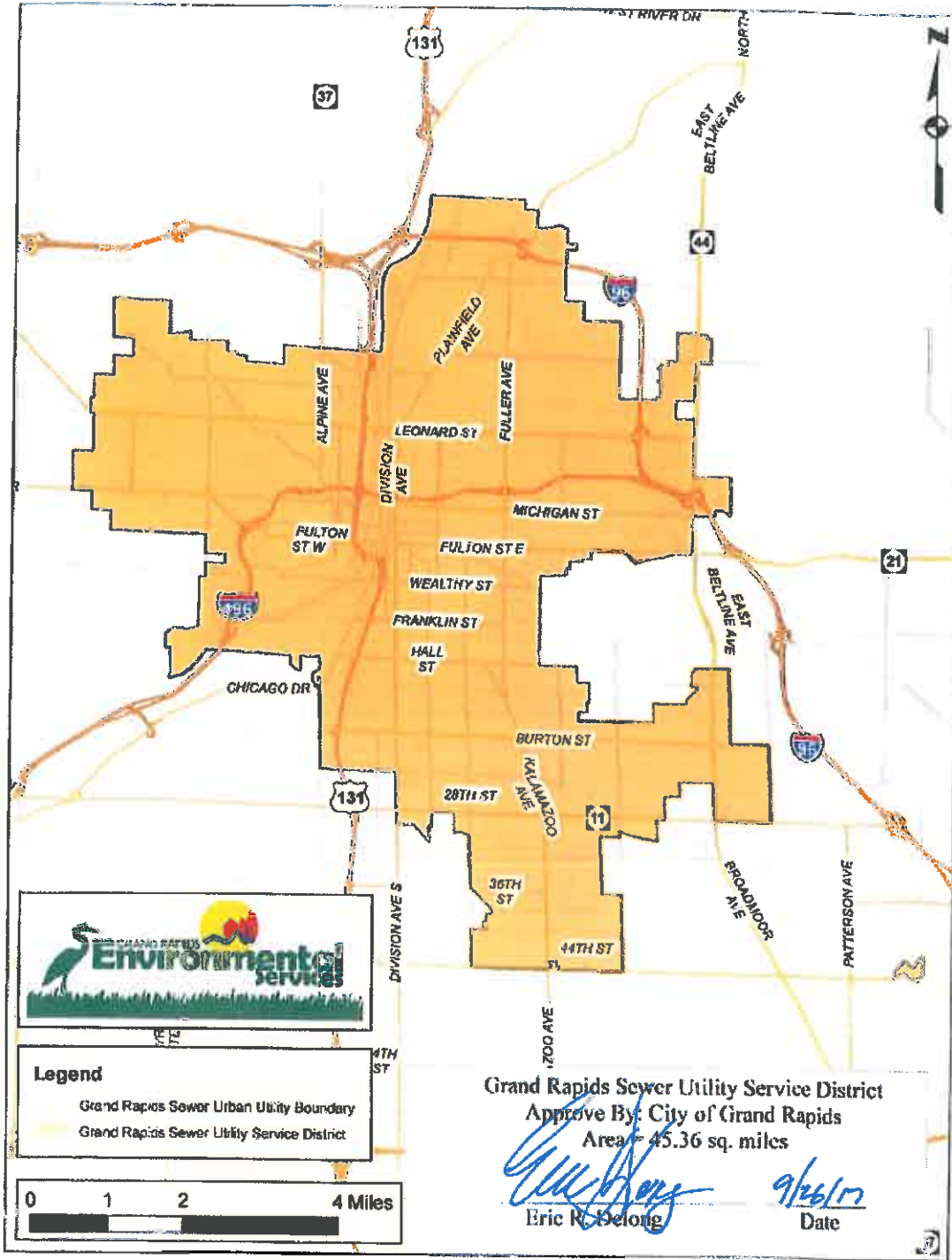
EXHIBIT B12

City of Grand Rapids Water Service  
Urban Utility Boundary and Utility Services District



# EXHIBIT B13

## City of Grand Rapids Sanitary Sewer Service Urban Utility Boundary and Utility Services District



## EXHIBIT C1

### Integrated Connection Fees Effective April 1, 2018

Integrated connection fees for water and sanitary sewer service shall be determined annually as a part of the annual Rate Study beginning with the 2017 Rate Study. The integrated connection fees established as a part of the 2017 Rate Study shall be effective April 1, 2018 through December 31, 2018. Thereafter, the integrated connection fees established as a part of the annual Rate Study shall be effective for the calendar year following approval of the Rate Study.

The integrated connection fee for water and sanitary sewer service shall be established based on meter size, i.e. 3/4" or smaller, 1", 1 1/2", 2", 3", 4" and 6" or larger, and shall consist of the following components:

- a. *base fee* representing the administrative cost of establishing the user account;
- b. *plan reviewer cost* representing the cost to review the service plan;
- c. *hydraulic engineer cost* representing the cost to review the service plan by hydraulic engineer;
- d. *utility engineer cost* represents the costs to review service plan by utility engineering staff;
- e. *system management cost* representing the cost of management and supervision;  
and
- f. *meter capacity cost* based on the cost of purchasing the related water meter (for water service connection fee only).

The integrated connection fee for residential Users where there are three residential units or less shall be comprised of the base fee (determined based on a 3/4" water meter size) for each water connection and each sanitary sewer connection plus meter capacity fee (determined based on a 3/4" water meter size). The integrated connection fee for all other residential and other Users shall be comprised of the base fee, the plan reviewer cost, the hydraulic engineering cost, the utility engineer cost and the system management cost (determined based on water meter size) for each water connection and each sanitary sewer connection plus a meter capacity fee based on the size of the water meter for the User's service.

In addition, there shall be a charge for a fire protection service connection fee for all new fire protection water service connections made on and after April 1, 2018. The fee shall be the same for all connections regardless of the size of the connection and shall consist of all of the same components as the water and sanitary sewer service integrated connection fees excluding the meter capacity cost.

The initial integrated connection fees effective April 1, 2018, shall be as follows:

Residential Users (three residential units or less)

Base Fee Water Service	\$350.00
Base Fee Sanitary Service	\$350.00

Plus a Water Meter Capacity Fee of \$175.00 (when water and sanitary sewer service connections are made at the same time only one Meter Capacity Fee shall be charged).

All other Users (including residential of more than 3 units, commercial, industrial, governmental and religious)

Water Service

<u>Meter Size</u>	<u>Fee</u>
3/4"	\$670
1"	850
1 1/2"	1,120
2'	1,570
3"	1,910
4"	2,650
6"	3,850

Sanitary Sewer  
Service Meter Size

<u>Service Meter Size</u>	<u>Fee</u>
3/4"	\$670
1"	850
1 1/2"	1,120
2'	1,570
3"	1,910
4"	2,650
6"	3,850

Plus a Meter Capacity Fee based on the meter size (when water and sanitary sewer connections are made at the same time only one Meter Capacity Fee shall be charged) as follows:

<u>Meter Size</u>	<u>Fee</u>
3/4	\$175
1	250
1 1/2	800
2	900
3	1,100
4 or larger	at cost

Fire Protection Service Fee

\$680.00

Retail

**Black lined changes to most recent version of Retail Agreement**

**Amendment to Section 5.C. of the Agreement.** The first paragraph of Section 5.C. of the Agreement is amended to read as follows:

Persons in the Utility Services District in each of the Customer Communities who receive a permit to connecting to the Water System and/or the Sewer System before April 1, 2018, shall pay integrated connection fees ~~established and determined~~ in accordance with Exhibit C attached hereto and incorporated herein and those receiving permits on and after April 1, 2018, shall pay integrated connection fees in accordance with Exhibit C1 attached hereto and incorporated into the Agreement.

**Amendment to Section 5.D. of the Agreement.** The first paragraph of Section 5.D. of the Agreement is amended to read as follows:

Industrial and commercial Users in the Utility Services District in each of the Customer Communities discharging into the Sewer System shall be charged a penalty surcharge ~~if the concentration~~ of certain discharges that exceed certain limits ~~as established from time to time by the City~~. The penalty surcharges shall be as established and adjusted by the City from time to time ~~in the Rate Study and shall be the same for all applicable industrial and commercial Users of the Sewer System~~. The penalty surcharges ~~are intended to discourage the discharge of effluents in excess of normally accepted concentrations~~ need not be the same for all applicable industrial and commercial Users of the Sewer System. The City may adjust or determine not to impose penalty surcharges on certain industrial or commercial Users upon determining that a User's method and/or manner of introducing such discharges into the Sewer System and the processing thereof by the Sewer System directly or indirectly reduces operating costs at the Sewer System's Water Resource Recovery Facility and/or maximizes the economic use of the Facility's capacity.

**Amendment to Section 21 of the Agreement.** The second and third paragraph of

Section 21 of the Agreement is amended to read as follows:

The City and each of the Customer Communities agree that public water and/or sanitary sewer services shall not ~~initially~~ be extended outside the boundaries of the applicable Utility Services District in such Customer Community during the term of this Agreement, *provided, however,* such boundaries shall be ~~adjusted~~ extended at the request of the Customer Community ~~provided if~~ (a) at least sixty-five percent (65%) of property within such ~~existing~~ Utility Services District in such Customer Community has been developed, (b) ~~such the~~ Customer Community has adopted a zoning and planning master plan for the property it desires to add to the Utility Services District, (c) ~~such the~~ Customer Community has adopted a utility master plan for the property it desires to add to the Utility Services District, (d) at the time of adjustment of the boundaries of the Utility Services District the property within ~~such the~~ new expanded Utility Services District shall not be less than forty-five percent (45%) developed and (e) the Customer Community has met all the requirements of its utility master plan related to all prior expansions of the Utility Services District, *provided, further,* that such boundaries of ~~such the~~ Utility Services District shall not extend beyond the limits of the Urban Utility Boundary ~~in such Customer Community~~ except as otherwise provided in this Agreement. A Customer Community desiring to expand the boundaries of its Utility Services District shall submit a request to the Utility Advisory Board along with a drawing identifying the proposed expansion area. The Utility Advisory Board shall review the request to determine whether all requirements in the second sentence above have been met. If met, the Utility Advisory Board shall approve the request. Upon approval, the City shall prepare a revised Exhibit A1 or A2 map and revised Exhibit B map identifying the new boundaries of the Customer Community's Utility Services District. The revised Exhibit B map shall be signed and dated by an affected Customer Community representative and shall replace the Customer Community's Utility Services District Exhibit B map in the Agreement. The revised Exhibit A1 or A2 map shall replace the Exhibit A1 or A2 map currently in the Agreement. The City shall distribute the revised Exhibit A1 or A2 and revised Exhibit B maps to the Customer Communities. When determining whether Upon establishing such new boundaries of the Utility Services District, the Customer Community shall provide the City with a map identifying the new boundaries of the Utility Services District. When determining whether sixty-five percent (65%) of the

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property within an existing Utility Services District has been developed, there shall be excluded from ~~such the~~ calculation public right-of-way, land dedicated to public use, land dedicated as open space and land used for agricultural purposes. The property which shall be excluded from such calculation shall include, but not be limited to, those exclusions identified in the attached Exhibit F.

A Customer Community desiring to add property to the Utility Services District may do so without meeting the above sixty-five percent (65%) developed requirement by removing from the Utility Services District a quantity of land equal to that to be added to the Utility Services District provided ~~such the~~ added land is contiguous to the boundary of the existing Urban Services District. ~~Upon adjusting the boundaries of the Utility Services District, the Customer Community shall provide submit an adjustment request along with a drawing identifying the proposed adjustment to the Utility Advisory Board and the Board shall review the request to determine if it meets the requirement of the preceding sentence. If met, the Utility Advisory Board shall approve the request. Upon approval the City shall prepare a revised Exhibit A1 or A2 map and revised Exhibit B map identify the new boundaries of the Customer Community's Utility Service District. The revised Exhibit B map shall be signed and dated by an affected Customer Community representative and shall replace the Customer Community's Utility Services District map in the Agreement. The revised Exhibit A1 or A2 map shall replace the Exhibit A1 or A2 map currently in the Agreement. The City shall distribute the revised Exhibit A1 or A2 and revised Exhibit B maps to the Customer Communities, the City with a map identifying the new boundaries of the Utility Services District.~~

**Amendment to Section 22 of the Agreement.** The second and third paragraph of

Section 22 of the Agreement is amended to read as follows:

~~The limits of the~~ A Customer Community desiring to extend ~~the boundaries of its~~ Urban Utility Boundary ~~may be extended upon mutual agreement of the City and the affected Customer Community after consultation with the~~ shall submit a request to the Utility Advisory Board ~~when along with a drawing identifying the proposed extension area. The Utility Advisory Board shall review the request to determine if~~ (a) the boundaries of the Utility Services District in ~~such the~~ Customer Community have been extended to the limits of the current Urban Utility Boundary, and (b) sixty-five percent (65%) of property within the Urban Utility

Boundary in ~~such-the~~ Customer Community has been developed (taking into account the same exclusions as those set forth in section 21 hereof for determining development of the Utility Services District) and ~~(c) -such-the~~ Customer Community has adopted a zoning and planning master plan for property it wishes to include within the Urban Utility Boundary. If the requirements in the preceding sentence are met, the Utility Advisory Board shall recommend approval of the request to the legislative bodies of the City and Customer Community. If both legislative bodies approve the request, the City shall prepare a revised Exhibit A1 or A2 map and revised Exhibit B map identifying the new limits of the Urban Utility Boundary. The revised Exhibit B map shall be signed and dated by an affected Customer Community representative and a City representative shall replace the Customer Community's Exhibit B map currently in the Agreement. The revised Exhibit A1 or A2 map shall replace the Exhibit A1 or A2 map currently in the Agreement. The City shall distribute the revised Exhibit A1 or A2 and revised Exhibit B maps to the Customer Communities.

A Customer Community desiring to add property to ~~the-its~~ Urban Utility Boundary may do so without meeting the above sixty-five (65%) developed requirement by removing from the Urban Utility Boundary a quantity of land equal to that to be added to the Urban Utility Boundary provided such ~~added~~ land is contiguous to the boundary of the existing Urban Utility Boundary. The Customer Community shall submit its request to the Utility Advisory Board along with a drawing identifying the property proposed to be removed and the property proposed to be added to its~~Upon adjusting the boundaries of the Urban Utility Boundary, the Customer Community shall provide the City with a map identifying the new boundaries of the Urban Utility Boundary. The Utility Advisory Board shall review the request to determine if the requirement in the first sentence of this paragraph is met. If met, the Utility Advisory Board shall recommend approval of the request to the legislative bodies of the City and Customer Community. If both legislative bodies approve the request, the City shall prepare a revised Exhibit A1 or A2 map and revised Exhibit B map identifying the new limits of the Urban Utility Boundary. The revised Exhibit B map shall be signed and dated by an affected Customer Community representative and a City representative and shall replace the Customer Community's Exhibit B map currently in the Agreement. The revised Exhibit A1 or A2 map shall replace the Exhibit A1 or A2 map currently in the Agreement. The City shall distribute the revised Exhibit A1 or A2 and revised B maps to the Customer Communities.~~

**Amendment to Section 23 of the Agreement.** The following is added as a new paragraph to Section 23 of the Agreement at the end of the Section:

The Utility Advisory Board may establish rules and regulations related to the provisions of this Agreement provided such rules and regulations do not conflict or are not inconsistent with the City's adopted rules and regulations related to the operation of the Sewer System and Water System.

# Report of the Utility Advisory Board Rate Review Sub-Committee

## 1 INTRODUCTION

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The region's first significant effort to put smart growth principles into play included a new water and sewer partnership developed in 1998 to manage growth and improve livability through an innovative approach to water and sewer service agreements. These agreements address sprawl in several key ways:

- by assigning a cost to the use of land,
- by requiring growth to pay for growth,
- by setting rational criteria for the expansion of utility service areas, and
- by using smart growth principles and good utility practice to ensure that utilities and growth patterns match up.

While the new agreements set a benchmark that is clearly a significant step forward, the Utility Advisory Board ("UAB") recognizes the need to continually review and improve on these tenets and to add more tools to the region's toolbox.

Previous subcommittees of the UAB have worked on various aspects of rates and charges. This work resulted in the partnership agreements being amended four times as follows:

- First amendment: calculation of integrated connection fees
- Second amendment: calculation of integrated connection fees and integrated system revenue requirement
- Third amendment: borderline street agreements; individual circuit breaker; City and customer community circuit breaker; and extending boundaries into adjoining municipalities when there are good engineering reasons to do so
- Fourth amendment: average billed flow; prepayment of capital reserve requirements; modification of the rate setting methodology; and modification of the rate of return percentage

In addition, several policies have been put in place to handle certain circumstances:

- Policy #06-01 Downward Adjustment of Area Calculation for the Determination of Water and Sewer Connection Fees for Residential Development (2/16/06; revised 5/18/06)
- Policy #08-01 Urban Mixed Use Development Connection Fees (2/21/08)
- Policy #08-02 Water Use Restriction Policy (2/21/08)
- Policy #10-01 Utility Service District (USD) Reduction Policy Standards (4/15/10)
- Policy #11-01 Prepay of Capital Reserve Requirements (10/20/11)

## 2 BACKGROUND

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One of the hallmarks of the UAB partnership is its flexibility and ability of its partners to adapt together to both internal and external influences. Among the newest of the external influences are emerging concerns about connection fees, housing availability and affordability in the UAB service area and the publication of the “Report of the 21<sup>st</sup> Century Infrastructure Commission”. Governor Snyder appointed the Commission and its recommendations include implementing a statewide asset management plan, promoting connections to public water and sewer systems and investing \$4 billion per year in infrastructure asset management. Infrastructure classes include water, sewer, stormwater, transportation and communications systems.

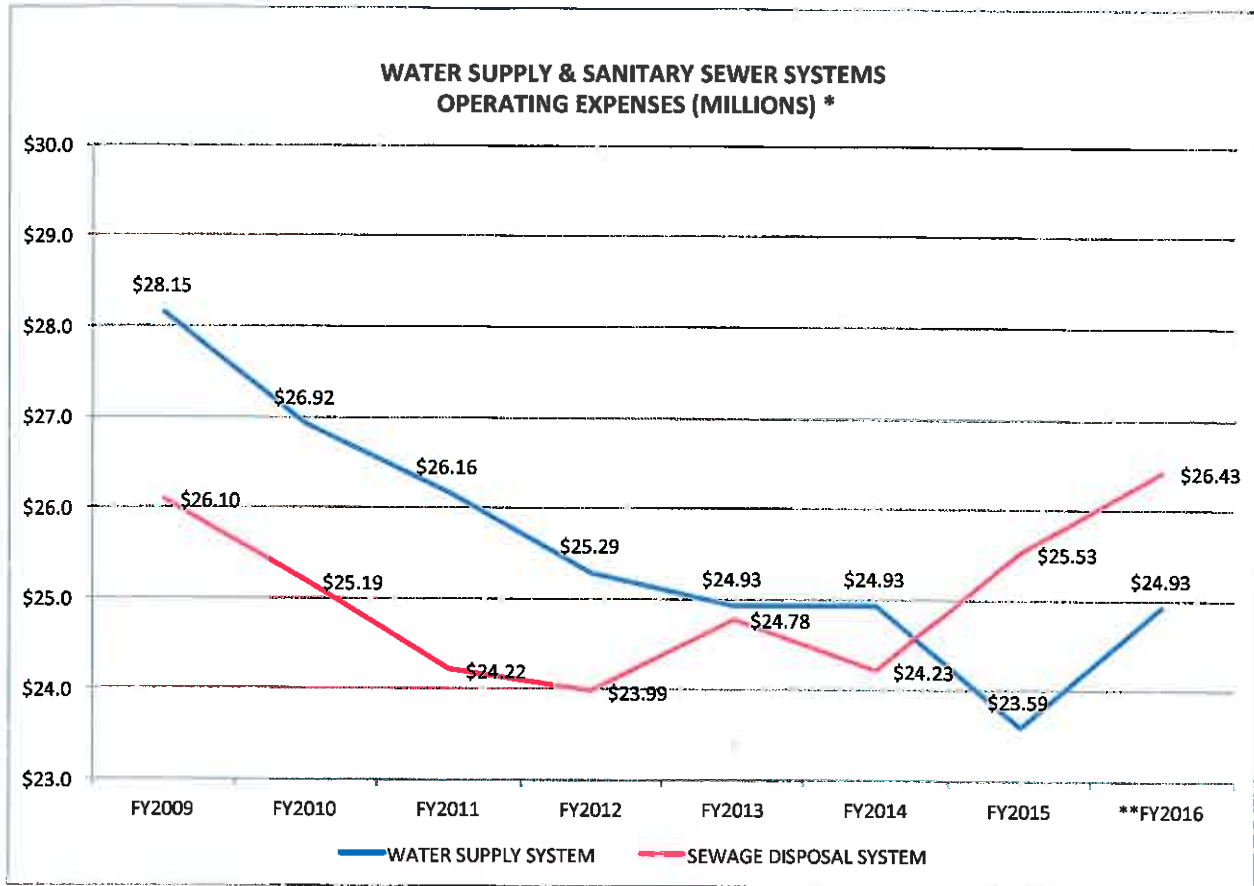
In January 2014, the UAB formed a Rate Review Sub-Committee (the “Sub-Committee”) consisting of representatives from Walker, Grand Rapids Charter Township, Kentwood, Cascade Charter Township, and Grand Rapids as well as legal counsel. The Sub-Committee was charged with reviewing and making recommendations as deemed appropriate on land use and metrics, the effectiveness of connection fees, the impacts of varying the readiness-to-serve charge and commodity charge by community, and strategies for increasing the number of users on the water and sanitary systems with a focus on larger, commercial users.

## 3 WORK OF THE SUB-COMMITTEE

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The Sub-Committee began by reviewing the original concepts that were the foundation in the development of the Water and Sanitary Sewer Service Agreements with partner communities (“Agreements”). The Sub-Committee reviewed the adjustments that have been made to the Utility Service District (“USD”) boundaries (see Attachment A) and determined that the Urban Utility Boundaries (“UUB”) and the methods for expansion and reduction of the USD boundaries were working well. The group determined that no changes were needed to the overall, core components of the Agreements.

The UAB has been updated regularly on the many changes and improvements made in operations and maintenance costs over the past few years. Leadership in both water and sanitary sewer have demonstrated a strong commitment to control costs that have achieved an estimated \$25 Million in operational savings since FY2009.



\* Total operating expenses reported in Comprehensive Annual Report (CAFR) less depreciation plus transfer out; does not include interest expense on debt.

\*\*Total operating expenses for FY2016 exclude loss on fixed assets

The results of this commitment are also shown in the above chart by the reduction in operating costs of both water and sanitary sewer between FY2008 and FY2014. Costs in sanitary sewer have fluctuated more due to the need to meet regulatory standards.

Operating costs in both water and sanitary sewer are expected to remain stable with no large, cost savings in the foreseeable future. That said, increased costs could be driven by external factors or significant capital investment.

Both internal and external factors influenced the 2016 Water/Sanitary Sewer Rate Study. The City Comptroller's Office made a determination on the treatment of fixed assets that caused certain elements of capital projects to be expensed in the current year rather than depreciated over time. This factor contributed to an increase in water rates and sanitary sewer in 2016 and has implications that bear watching.

Rating agency, S&P Global Ratings, made a determination that both systems bond coverage ratio should be 1.4 for all debt (both junior and senior). This more stringent test required additional revenue in 2016

and was a factor that contributed to an increase in water rates and sanitary sewer. A test has been added to the annual rate study to insure the new coverage ratio is maintained.

The Sub-Committee believes that attention will need to be placed on increasing usage in order to continue to moderate the ever-rising cost of service. In line with the core belief that urban sprawl is undesirable and should be restrained, it was agreed that the UUB should not be increased to achieve an increase in customers. The Sub-Committee also agreed that any recommendations for changes should not encourage the wasteful use of water in order to increase the amount of billed flow charged to water and/or sanitary sewer customers.

The Sub-Committee began a review of possible barriers to connection that customers may encounter. It found that system capacity is not a barrier and allows for the addition of new customers with available capacity of 15 MGD and 19 MGD in the water and sanitary sewer systems, respectively (see insert).

WATER SYSTEM CAPACITY	
<b>PSI Pressure:</b>	Ranges from 35-85 PSI, with the majority of the service area at 55-75 PSI
<b>Total System Capacity:</b>	135 MGD (million gallons per day)
<b>Available Capacity:</b>	15 MGD with additional 30 MGD of intake and treatment capacity without system modifications.

WASTEWATER SYSTEM CAPACITY	
<b>Average Daily Flow:</b>	42 MGD (million gallons per day)
<b>Total System Capacity:</b>	61.1 MGD
<b>Available Capacity:</b>	19 MGD
<b>BOD Capacity:</b>	60,000 lbs. per day in BOD capacity immediately available.

Some Sub-Committee members believed that the cost of connection was a deterrent to water and sanitary sewer connections. In order to determine the gap between the cost of public water and sanitary sewer connections and the cost of connecting to private well and/or septic services, discussions took place with representatives from the Kent County Health Department (the "Health Department").

Health Department officials indicated that new businesses or residences are required to connect to public water and sanitary sewer systems if infrastructure is available within 200 feet of the closest point of the property line. Well and septic permits will not be issued if a facility is closer than 200 feet to the public system. It was also learned that the State of Michigan requires connection to the public sewer system if infrastructure is available.

Pertinent citations in the Michigan Public Health Code are as follows:

333.12752: Public sanitary sewer systems are essential to the health, safety, and welfare of the people of the state. Septic tank disposal systems are subject to failure due to soil conditions or other reasons. Failure or potential failure of septic tank disposal systems poses a threat to the public health, safety, and welfare; presents a potential for ill health, transmission of disease, mortality, and economic blight; and constitutes a threat to the quality of surface and subsurface waters of this state. **The connection to available public sanitary sewer systems** at the earliest, reasonable date is a matter for the protection of the public health, safety, and welfare and necessary in the public interest which is declared as a matter of legislative determination.

333.12751(c): “**Available public sanitary sewer system**” means a public sanitary sewer system located in a right of way, easement, highway, street or public way which crosses, adjoins or abuts upon the property and passing not more than 200 feet at the nearest point from a structure in which sanitary sewage originates.

333.12757(2): The department, after consultation with the state plumbing board, shall adopt guidelines to assist local health departments in determining what are acceptable alternative greywater systems and what are **acceptable innovative or alternative waste treatment systems**. The department shall advise local health departments regarding the appropriate installation and use of acceptable innovative or alternative waste treatment systems and acceptable innovative or alternative waste treatment systems in combination with acceptable alternative greywater systems.

333.12751(b): “**Acceptable innovative or alternative waste treatment system**” ...does not include a septic tank drain field system or any other system which is determined by the department to pose a similar threat to the public health, safety and welfare, and quality of surface and subsurface waters of this state.

Section P2602.1 and P2602.2 of the 2015 Michigan Plumbing Code state as follows:

P2602.1 General. The water-distribution and drainage system of any building or premises where plumbing fixtures are installed **shall be connected to a public water supply or sewer system, respectively, if available**. Where either a public water supply or sewer system, or both, are not available, or connection to them is not feasible, an individual water supply or individual (private) sewage-disposal system, or both, shall be provided.

P2602.2 Flood-resistant installation. In flood hazard areas as established by Table R301.2 (1):

Water supply systems shall be designed and constructed to prevent infiltration of floodwaters.

Pipes for sewage disposal systems shall be designed and constructed to prevent infiltration of floodwaters into the systems and discharges from the systems into floodwaters.

The Section 2.23.1 of the Grand Rapids Code of Ordinances states as follows:

The owner of each house, building or other structure equipped with plumbing fixtures and used for human occupancy, employment, recreation or other potable use, e.g., domestic use, situated within or outside the City and abutting any street, alley, right-of-way or public utility easement in which there is located, or may in the future be located, a public watermain served by the City Water System, shall, at her, his or its expense, install suitable plumbing facilities therein and to **connect such facilities directly to the public watermain, provided said public watermain is within a two hundred (200) foot radius** of the house, building or other structure where connection will occur and, provided further, such connection shall not be required to a house, building or other structure where on the effective date of this Section it was served by a private *water*

well until such time as such private *water* well fails and the local health agency governing private *water* wells has determined that such failure exists and that it is unable to issue a permit for repair or replacement of such failed well within the parcel of property where the failed well is located. Well failure shall be as determined and defined by the local health agency governing private *water* wells within the areas served by the Water System. Except as provided in the immediately preceding sentences, all domestic *water* usage at such connected house, building or structure shall be through the Water System; private wells shall not be permitted to provide domestic *water* service to such house, building or structure; and once connected to the public Water System disconnection shall be prohibited. It shall be the owner's responsibility to plug or cap the abandoned domestic *water* well and contact the local health agency that governs private *water* wells for proper procedures for plugging and capping such abandoned domestic *water* wells. Notwithstanding any current or future agreement between the City and another municipality being served by the City Water System, said municipality shall have the option of adopting the provisions of this section.

Further, the Governor's 21<sup>st</sup> Century Infrastructure Commission has made several recommendations requiring connection to public water and sanitary sewer service at the time of a system failure, to update the public health code requirements regarding connections, to institute regular inspection and maintenance cycles for well and septic systems and to provide that some form of circuit breaker relief be provided where affordability is an issue.

Health Department officials were asked about the possibility of adding ordinances, rules or regulations requiring connection to public utilities for new construction, upon sale, or upon well or septic failure. Said officials indicated that they do encourage compliance with all local ordinances and may be able to deny a permit depending on how an ordinance is written. Said officials then indicated that how far they can go to enforce a local ordinance is limited by lack of State or County policy guidance.

Said officials also indicated, when an option is available, property owners believe the cost to connect to public utilities will be too expensive. Property owners also understand that they will have monthly utility bills if they connect to the public water and sanitary sewer systems. Property owners are also concerned, with respect to public water service, that (a) they won't be able to use as much water as they want because of the cost or (b) unacceptable chemicals will be added to the water. Property owners may also believe they have a right to use the water running below their property because they own it. Further, property owners look at the well/septic system solution as a one-time cost and don't

take into account ongoing maintenance even when provided information on the proper maintenance for the private systems.

Water/Sewer Connection Estimate (20,000 sq base lot)	TOTAL ESTIMATED COSTS	
	Water	Sewer
Front Footage Fee (100')	\$7,800	\$6,300
Connection Fee	\$2,873	\$2,873
Stub Fee	\$2,800	\$3,100
Meter Setting Fee	\$40	\$0
Inspection Fee	\$55	\$55 *
Lateral (50' setback)	\$2,000	\$2,000
Street Opening Permit	\$15	\$15 **
Local Fees	\$1,000	\$1,000
<b>TOTAL</b>	<b>\$17,983</b>	<b>\$17,343</b>
<b>Water/Sewer TOTAL</b>	<b>\$35,626</b>	

\* Inside COGR would be \$40

\*\* \$30 Water and \$30 Sewer in COGR

The life span of private wells and septic systems is estimated at between 25 to 30 years. The approximate costs for new installations are \$8,000 to \$9,000 for septic systems and \$4,000 to \$6,000 for water wells, or a total of \$12,000 to \$15,000 for both. The Sub-Committee believes that in order to encourage connection to the public water and sanitary sewer systems the cost to connect to the public system would need to be equal to or less than this.

The Sub-Committee reviewed the total cost to connect to public water supply and sanitary sewer systems (see insert) and determined it was substantially higher than connecting to a private water well and septic system. The total estimated cost for connection to the water supply system is approximately \$16,500 and to the sanitary sewer system, is approximately \$17,000, for a total cost of approximately \$33,000 to connect to both.

With this information, the Sub-Committee reviewed each cost component of connection to the public water and sanitary sewer systems.

#### Readiness-to-Serve Charge

Modeling was used to determine (a) what would happen if a balanced/uniform readiness-to-serve charge was used across all communities and (b) the impact of reducing the readiness-to-serve charge by 5%, 10% and 15% (see Attachment B). Changes in the readiness-to-serve charge were shown to have minimal impact. Therefore, the Sub-Committee recommends that no change be made to the readiness-to-serve charge.

#### Front Footage Charge

Front footage charges contain many elements. There are three basic forms of obligations: deferred front footage charges, developer payback agreements and deferred special assessments. The Agreements established a new method of calculating front footage charges that moved the basis from historical cost at time of construction to current cost as time of connection. Developer payback agreements in partner communities vary, but are self-contained.

Many partner communities have undeveloped areas where utilities have not yet been extended. The front footage charge is used by such partner communities to recoup the cost of providing infrastructure built to incent development in certain areas within their USD. If front footage fees were eliminated, there would need to be another way for communities to recoup this cost. The number and amount of payback agreements identified on Attachment C, currently in existence were reviewed. Partner communities have agreements where they are still owed front footage charges from these agreements.

It was determined that the use of these agreements should not be discontinued. It should be up to the partner community to determine if it wants to use them. The Sub-Committee determined that system-wide, the elimination of these fees did not have a significant impact on rates and charges, but that the impact on specific communities could be significant. Attachment D includes a history of front footage fees. As a result of the Sub-Committee's research, it recommends that no change be made to the current policy on front footage charges. The Sub-Committee further recommends that each partner community retain the current discretion to manage front footage charges, payback agreements and deferred special assessments.

#### Stub Fee

The Sub-Committee's review showed that the stub fee has no impact on rates. The stub fee is hardly ever charged as a portion of the connection fee at the time of connection because the developer usually pays the stub fees as the property is developed. There is a benefit to the developer adding the stubs so the roadway doesn't need to be disturbed when the property is connecting. The Sub-Committee discussed the option of charging a stub fee to a developer when it requests infrastructure be provided

for the development and of not charging a stub fee upon connection when the community itself has chosen to build out an area to incent development. After completing its review, the Sub-Committee recommends that the water supply and sanitary sewer system rules and regulations be amended to provide this flexibility.

### Integrated Connection Fee

The integrated connection fee is one of the measures used to achieve the concept of sustainable growth, i.e. growth pays for growth. Property owners using more land pay a higher fee than those using less land. The integrated connection fees were established to recognize capital improvements and debt related to the existing water supply and sanitary sewer systems.

The Sub-Committee examined whether a desire to incent current well/septic users and new customers to connect to the public systems is consistent with sustainable growth practices.

The USDs in partner communities and its interaction with the UUBs has helped concentrate utility users effectively. However, land is being used differently today than it has been in the past. There are other factors that have likely had more impact on sustainable growth practices than the integrated connection fee (see attachment D).

The one-time impact on water and sanitary sewer rates of the elimination of the integrated connection fee is estimated to be 2.72% on water rates and 2.08% on sanitary sewer rates. This was an area of interest of the Sub-Committee. It first discussed a phased approach to reduction of the integrated connection fee as the most practical and most affordable option.

Subsequently, it reviewed alternatives that would recognize the cost of reviewing and processing a connection and reflect a portion of the cost of "buying into to the system." Staff prepared a review that suggested implementation of two elements to update the calculation of the integrated connection fee:

1. plan review and connection component ("PRC") that would recover the costs associated with the account set-up and plan review; and
2. meter capacity component ("MCC") that would be based on the meter acquisition cost.

Moving in this direction updates the integrated connection fee to recognize fulfillment of its original cost recovery purpose, to recognize the current cost of connection to the system and to remove a barrier to connections. The PRC and MCC would be treated under the water and sanitary sewer rate studies as a credit against the integrated system revenue requirement.

The updated integrated connection fee would be updated over two rate study years and would have a modest 0.81% impact on water rates and 0.75% impact on sewer rates in the first rate study year.

A full description of both the calculation of the PRC and MCC is found in Attachment E.

### Other Fees

The remainder of the costs of connection include a meter setting fee, inspection fee, street opening permit, lateral fee, and various local fees. Together, these fees were estimated to make up less than \$5,000 of the total cost of connection. Taken individually, none was thought to have a substantial enough impact on the total cost of connection to make changes to them.

## 4 ANALYSIS

The Sub-Committee found that there were varying impacts achieved by eliminating the front footage fee, integrated connection fee, and stub fee in different combinations. The modeling was done using a 20,000 square foot base lot (see insert).

[UPDATE the CHART TO SHOW THE FINAL PRC and MCC.]

The front footage fee is the highest fee and, therefore, has the greatest impact if eliminated. Its elimination also causes the most complexity with the untangling of payback agreements and ensuring that communities can still recoup investments in infrastructure made to incent development.

Water/Sewer Connection Estimate (20,000 sq base lot)	TOTAL ESTIMATED COSTS		W/O FRONT FOOTAGE FEE (FFF)		W/O CONNECTION FEE (CF)		W/O CF & FFF		W/O CF, FFF & Stub Fee	
	Water	Sewer	Water	Sewer	Water	Sewer	Water	Sewer	Water	Sewer
Front Footage Fee (100')	\$7,800	\$8,000	\$0	\$0	\$7,800	\$8,000	\$0	\$0	\$0	\$0
Connection Fee	\$2,873	\$2,873	\$2,873	\$2,873	\$0	\$0	\$0	\$0	\$0	\$0
Stub Fee	\$2,800	\$3,100	\$2,800	\$3,100	\$2,800	\$3,100	\$2,800	\$3,100	\$0	\$0
Meter Setting Fee	\$40	\$0	\$40	\$0	\$40	\$0	\$40	\$0	\$40	\$0
Inspection Fee	\$55	\$55 *	\$55	\$55	\$55	\$55	\$55	\$55	\$55	\$55
Lateral (50' setback)	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Street Opening Permit	\$15	\$15 **	\$15	\$15	\$15	\$15	\$15	\$15	\$15	\$15
Local Fees	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
<b>TOTAL</b>	<b>\$17,826</b>	<b>\$17,826</b>	<b>\$17,826</b>	<b>\$17,826</b>	<b>\$12,210</b>	<b>\$12,210</b>	<b>\$12,210</b>	<b>\$12,210</b>	<b>\$6,180</b>	<b>\$6,180</b>
<b>Water/Sewer TOTAL</b>	<b>\$35,626</b>		<b>\$17,826</b>		<b>\$27,880</b>		<b>\$12,080</b>		<b>\$6,180</b>	

\* Inside CDGR would be \$40)  
 \*\* \$30 Water and \$30 Sewer in CDGR)

The Sub-Committee considered that the integrated connection fee may no longer be needed. However, elimination of the integrated connection fee alone only reduces the total cost to connect to about \$28,000, which is still much higher than the average cost for a private well/septic system.

Elimination or adjustment of both the front footage fee and the integrated connection fee would be needed to bring the cost to below the average cost for a private well/septic system. The elimination or adjustment of the integrated connection fee could be a feasible method of reducing the cost of connection, but elimination of front footage fees would not be in the best interest of many of the partner communities due to the complexities of payback agreements. The Sub-Committee recommends that the elimination or reduction of front footage fees is best left to individual partner communities. Each partner community understands the circumstances of each situation and is the most appropriate judge of the value of a waiver or reduction of the payback amount. A future option may be to discourage use of payback agreements in favor of special assessments or use of "system financing." Under the Agreements, communities have the option of applying the front footage fee or reducing or waiving it. Grand Rapids Charter Township currently offers financing options for the front footage fee.

After review of payback agreements currently in effect (see Attachment C) and on the amount received by each community for front footage fees (see Attachment D), the Sub-Committee concluded that a very small percentage of potential properties that could be connected to the public water or sanitary sewer system are subject to front footage fees. Payback agreements are similar to special assessments in that they are direct arrangements between a partner community and a property owner or owners.

The Sub-Committee concluded that there is substantially more land area within partner community UABs where front footage fees are not used than where they are. Thus, the cost of connection for a significant area served by the public water and sanitary sewer systems is significantly reduced by not having to pay the front footage fees. Additionally, the Sub-Committee concluded that each partner

community could address front footage fee relief separately by discounting or eliminating front footage fees to provide further inducement for connections.

With that in mind, the Sub-Committee began to focus on the elimination of the integrated connection fees. If the fee were eliminated it would be a one-time loss in revenue in the year the change is made. It was determined that approximately 2,000 new residential water customers and 1,500 new residential sanitary sewer customers would be needed in that same year to offset the increase caused by the elimination of the integrated connection fees. The addition of larger, commercial customers could reduce the number of customers needed. More modeling on the effects of phasing the elimination or phasing of the fees in the addition of new connections is recommended.

Equity was discussed for those that have paid connection fees in the past. Is it fair to discontinue this fee for future connections? Would these users now be expected to pay higher rates to cover the cost of the new, lower cost connections? It was determined that these types of changes have been made in the past with little to no impact as users of the systems understand the need to adjust policies and procedures due to changes that occur. The intent is that rates would actually be kept at a lower amount through the addition of new customers generated by this change.

Preliminary work has been done to determine a base level where integrated connection fees could be set to cover actual costs of connection. The proposed PRC and MCC elements of the updated integrated connection fee will generate approximately \$970,000 in annual revenue for the water supply and sanitary sewer systems combined based upon the average historic number of connections per year. This revenue will offset in part the loss of current integrated connection fee revenue. The net effect is an increase in the revenue requirement of about 1.34% (\$533,377) for water and 1.25% (\$627,226) for sanitary sewer (see Attachment F)

The Sub-Committee next focused in on potential areas and specific properties that are not now connected to public water and sanitary sewer. An estimated 2,344 water-only customers and 729 sewer-only customers were identified as potential customers for additional connections.

Specific property addresses where infrastructure is available and are not connected to either water and/or sanitary sewer and opportunities to add infrastructure within the USDs to incent growth have yet to be identified.

## 5 CONCLUSIONS

DATA SUMMARY			
Community	Class	Water Only	Sewer Only
Cascade	Residential	1,222	68
	Commercial	16	4
Grand Rapids	Residential	152	65
	Commercial	69	10
Grand Rapids Township	Residential	410	129
	Commercial	12	5
Kentwood	Residential	50	59
	Commercial	12	3
Tallmadge	Residential	4	7
	Commercial	1	1
Walker	Residential	372	141
	Commercial	24	12
Wright	Residential	0	159
	Commercial	0	68
<b>TOTALS</b>		<b>2,344</b>	<b>729</b>

The Sub-Committee believes that updating of integrated connection fees as described in this report is a feasible method to achieve the outcome of reducing the total cost of connection and reducing cost as a barrier.

The Sub-Committee notes that the UAB must remain cognizant of the impact this will have on system revenues for both the water supply and sanitary sewer systems and the resulting impact on the bond coverage ratio. It is for this reason that the Sub-Committee recommends reduction of the integrated

connection fee rather than its elimination. Proceeding in this manner will reduce the impact. The reduced integrated connection fee would be implemented in the 2017 Water and Sanitary Sewer Rate Study, but the rate impact would be spread over two rate study years.

It bears repeating that there is substantially more land area throughout the USDs where front footage fees are not used than where they are being used. This means that the cost of connection for the vast majority of the USDs is already reduced by this amount and would amount to a significant additional reduction in the cost of connection if the recommendation was implemented regarding the integrated connection fees.

The Sub-Committee concluded that individual partner communities can address front footage fee relief separately by discounting or eliminating front footage fees to provide further inducement for connections.

The Sub-Committee acknowledges that this approach is a change in philosophy. The integrated connection fee was intended to help pay the cost of developing water and sewer infrastructure. The proposed updated integrated connection fee has been sized to pay for the cost of evaluation of a connection, establishing service account and providing a customer meter.

The philosophical basis for the proposed change is an understanding that an emphasis on densification within the USDs is a valuable outcome. It provides public health benefits by eliminating potential surface or sub-surface water contamination from failing septic tanks. It reduces costs for those wishing to develop affordable housing. It provides an opportunity to attract discrete new customers that will help existing customers pay annual operating and maintenance costs.

The recommendations the Sub-Committee would like to discuss with the UAB are as follows:

1. No change to the readiness-to-serve charge as this charge has minimal impact on the cost of connection.
2. Continuation of the current flexible policy on front footage fees, developer payback agreements and deferred assessments because of the limited impact of these fees on the revenues of the systems and the significant financial impact for some partner communities. Individual partner communities may consider discounting or eliminating these fees.
3. Amendment of the Water Supply System Rules and Regulations to allow options for when a stub fee is charged or when it can be waived.
4. Introduction of a revised integrated connection fee that would be comprised of the Plan Review and Connection ("PRC") component and a Meter Capacity Charge ("MCC") component to replace the current integrated connection fee as part of the 2017 Water and Sanitary Sewer Rate Study.
5. Development of strategies for increasing the customer base or increasing billed flow to help offset the impact of the revisions to the integrated connection fee.
6. Evaluate development of ordinance amendments to strengthen provisions regarding situations where connection to the public water and/or sewer system is required in conjunction with any State effort based on implementation of the recommendations of the 21<sup>st</sup> Century Infrastructure Commission including the following:
  - a. UAB Policy be developed with affected stakeholders to guide connections; and

- b. work group should continue to work on the development of a potential model ordinance.
7. Amend the Agreements to implement the updated integrated connection fee model.
8. Make the revisions to the integrated connection fee effective January 1, 2018 as part of the 2017 Water and Sanitary Sewer Rate Study. The first year rate impact is an average increase of rates of 0.81% for the Water Supply System and 0.75% for the Sanitary Sewer System. Actual results will vary by partner community and by application of the partner community circuit breaker in the rate. By implementing this charge on January 1, 2018, the impact will be split over two rate study periods, which will spread the impact over the 2017, and 2018 rate studies.
9. Track and evaluate the impact of the recommended changes.

ATTACHMENT A

Water/Sewer/USD Changes 2000 to Current Date  
**CITY OF GRAND RAPIDS, MICHIGAN**  
**WATER/SEWER UTILITY SERVICE DISTRICT AREAS FOR UAB PARTNERS**

KEY:  
 Reductions  
 Additions

UAB Partners	WATER - RATE STUDY YEAR									
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Grand Rapids	45.30	45.30	45.36	45.36	45.36	45.36	45.36	45.36	45.36	45.36
Walker	25.43	25.43	25.43	25.43	25.43	25.43	25.43	25.43	25.43	25.43
Kentwood	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
Cascade	25.75	25.75	23.53	23.53	23.53	23.53	23.53	23.53	23.53	23.53
Grand Rapids Township	13.56	13.56	14.06	14.06	14.42	14.42	14.42	14.42	14.42	14.42
Tallmadge Township	7.75	7.75	2.84	2.84	2.40	2.40	2.40	2.40	2.44	2.44
East Grand Rapids	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
Ada	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.15
Total	142.31	142.31	135.76	135.76	136.10	135.66	135.66	135.69	135.70	135.70

UAB Partners	SEWER - RATE STUDY YEAR									
	2010	2011	2012	2013	2014					
Grand Rapids	45.36	45.36	45.36	45.36	45.36					
Walker	25.43	25.43	25.43	25.43	25.43					
Kentwood	14.00	14.00	14.00	14.00	14.00					
Cascade	20.45	20.45	20.45	20.45	20.45					
Grand Rapids Township	10.33	10.33	10.33	10.33	10.33					
Tallmadge Township	2.44	2.44	2.44	2.44	2.44					
East Grand Rapids	3.37	3.37	3.37	3.37	3.37					
Ada	7.15	7.15	7.15	7.15	7.15					
Total	128.53	128.13	129.13	129.13	129.13					

UAB Partners	SEWER - RATE STUDY YEAR									
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Grand Rapids	45.30	45.30	45.36	45.36	45.36	45.36	45.36	45.36	45.36	45.36
Walker	19.26	19.26	19.26	20.17	20.17	20.17	20.17	20.17	20.17	20.17
Kentwood	14.00	14.00	14.00	14.00	14.00	14.00	14.29	14.29	14.28	14.28
Cascade	25.75	25.75	23.53	23.53	23.53	23.53	23.53	23.53	23.53	23.53
Grand Rapids Township	12.17	12.17	12.17	12.17	12.17	11.82	11.82	11.82	11.82	11.82
Tallmadge Township	7.75	7.75	2.84	2.84	2.84	2.40	2.40	2.40	2.44	2.44
Wright Township	-	-	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
East Grand Rapids	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37	3.37
Ada	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.15	7.15
Meijer - Algoma	-	-	-	-	0.20	0.20	0.20	0.20	0.20	0.20
Total	134.75	134.75	127.68	129.18	129.58	128.99	129.18	129.21	129.01	129.01

UAB Partners	SEWER - RATE STUDY YEAR									
	2010	2011	2012	2013	2014	2015				
Grand Rapids	45.36	45.36	45.36	45.36	45.36	45.36				
Walker	20.17	20.17	20.17	20.17	20.17	20.17				
Kentwood	14.28	14.28	14.26	14.26	14.26	14.26				
Cascade	16.21	16.21	16.21	16.21	16.21	16.21				
Grand Rapids Township	7.95	7.95	7.95	7.95	7.95	7.97				
Tallmadge Township	2.44	2.44	2.44	2.44	2.44	2.44				
Wright Township	0.89	0.89	0.89	0.89	0.89	0.89				
East Grand Rapids	3.37	3.37	3.37	3.37	3.37	3.37				
Ada	7.15	7.15	7.15	7.15	7.15	7.15				
Meijer - Algoma	-	-	-	-	-	-				
Caledonia Township*	-	-	-	-	-	-				
Total	117.66	117.62	117.82	117.82	117.82	117.82				

\* contract being amended extending the date when they need to join to 12/31/15

ATTACHMENT B

CITY OF GRAND RAPIDS, MICHIGAN  
 2013 FINAL WATER/SEWER RATE STUDY  
 ANALYSIS OF COMMODITY CHARGES AS A PERCENT OF REVENUE REQUIREMENTS  
 WITH UNIFORM & BALANCED RTS CHARGES UNDER MULTIPLE RTS REDUCTION SCENARIOS  
 FOR RATES EFFECTIVE JANUARY 1, 2016

Community	2013 Rate Study Balance/Uniform RTS	1% RTS Reduction	10% RTS Reduction	15% RTS Reduction	Water			Sewer		
					Revenue Requirement Total	Percent RTS	Residential Rates: Comms per ICF	RTS per ICF	Revenue Requirement Total	Percent RTS
Grand Rapids	\$16,710,542	\$22,974,830	64.00%	\$1.70	\$1.14	\$21,757,148	64.72%	\$2.21	\$2.70	
	\$14,703,891	\$22,974,830	64.00%	\$1.70	\$1.14	\$21,516,932	64.00%	\$1.17	\$2.75	
	\$15,832,433	\$22,974,830	69.00%	\$1.83	\$0.99	\$21,195,787	69.00%	\$1.47	\$2.58	
	\$12,091,374	\$22,974,830	71.00%	\$1.64	\$0.83	\$21,876,641	74.00%	\$1.67	\$2.09	
Walker	\$18,150,116	\$22,974,830	79.00%	\$2.10	\$0.65	\$25,557,491	79.00%	\$3.92	\$1.65	
	\$1,874,734	\$3,087,410	60.22%	\$1.57	\$1.43	\$2,211,105	46.74%	\$2.68	\$5.58	
	\$1,975,947	\$3,087,410	64.00%	\$1.65	\$1.31	\$1,927,537	61.00%	\$1.67	\$1.81	
	\$2,110,111	\$3,087,410	68.00%	\$1.78	\$1.13	\$1,761,058	59.00%	\$1.96	\$1.90	
Kentwood	\$2,284,583	\$3,087,410	74.00%	\$1.91	\$0.94	\$3,902,584	74.00%	\$4.24	\$2.79	
	\$2,432,054	\$3,087,410	79.00%	\$2.04	\$0.76	\$1,737,116	79.00%	\$4.53	\$1.77	
	\$2,653,408	\$4,065,885	65.26%	\$1.52	\$1.68	\$1,041,313	86.15%	\$2.30	\$1.26	
	\$2,602,166	\$4,065,885	64.00%	\$1.49	\$1.74	\$1,361,500	64.00%	\$1.71	\$4.91	
Cascade Twp	\$2,805,461	\$4,065,885	69.00%	\$1.62	\$1.50	\$1,550,304	69.00%	\$1.84	\$2.54	
	\$1,096,775	\$4,065,885	74.00%	\$1.77	\$1.25	\$1,735,109	74.00%	\$1.98	\$2.17	
	\$3,313,040	\$4,065,885	79.00%	\$1.64	\$1.01	\$2,419,911	79.00%	\$2.11	\$1.79	
	\$1,769,852	\$2,945,147	59.41%	\$2.08	\$2.32	\$1,018,936	49.47%	\$2.57	\$5.82	
Grand Rapids Twp	\$1,094,904	\$2,945,147	64.00%	\$2.24	\$2.09	\$1,378,134	64.00%	\$1.32	\$4.71	
	\$2,032,151	\$2,945,147	69.00%	\$2.42	\$1.75	\$1,421,134	69.00%	\$3.58	\$3.65	
	\$2,179,409	\$2,945,147	74.00%	\$2.59	\$1.44	\$1,574,115	74.00%	\$1.84	\$3.10	
	\$2,316,816	\$2,945,147	79.00%	\$2.77	\$1.14	\$1,677,090	79.00%	\$4.10	\$2.54	
Tallmadge Twp	\$1,200,394	\$2,077,295	58.00%	\$1.71	\$1.77	\$934,526	39.64%	\$2.34	\$5.12	
	\$1,329,853	\$2,077,295	64.00%	\$1.83	\$1.48	\$1,516,347	64.00%	\$2.80	\$3.08	
	\$1,411,748	\$2,077,295	69.00%	\$2.08	\$1.28	\$1,644,897	69.00%	\$4.09	\$2.67	
	\$1,577,642	\$2,077,295	74.00%	\$2.33	\$1.07	\$1,763,271	74.00%	\$4.39	\$3.75	
Tallmadge Twp	\$1,641,537	\$2,077,295	78.00%	\$2.48	\$0.87	\$1,871,715	79.00%	\$6.69	\$1.84	
	\$87,276	\$125,228	69.69%	\$1.33	\$0.81	\$177,483	46.34%	\$10.33	\$4.22	
	\$10,146	\$125,228	64.00%	\$1.24	\$1.10	\$170,640	64.00%	\$10.12	\$6.69	
	\$56,407	\$125,228	69.00%	\$1.49	\$0.85	\$183,771	69.00%	\$10.91	\$5.79	
Tallmadge Twp	\$92,669	\$125,228	74.00%	\$1.25	\$0.69	\$192,103	74.00%	\$11.71	\$4.89	
	\$98,070	\$125,228	79.00%	\$1.00	\$0.34	\$210,434	79.00%	\$17.50	\$3.99	

Note: Weighted Twp is calculated using a residential RTU charge as opposed to a commodity charge



ATTACHMENT D

City of Grand Rapids, Michigan  
Active Payback Agreements Summary  
As of 09/30/14

Agreement No	Type	Customer Community Account Name	Project Name	Agreement Start Date	Expiration Date	Agreement Amount	Payback Amount	Agreement Balance
1	Sewer	Grand Rapids Adams	East Leonard Trunk Secondary Sewer	09/16/09	EA	\$ 4,262.84	\$ -	\$ 4,262.84
8	Water	Grand Rapids David Genoe	Marjand Avenue Water Extension	09/16/09	EA	\$ 2,049.89	\$ 1,366.66	\$ 683.23
13	Sewer	Grand Rapids Lexi Incorporated	Eastern Avenue	06/01/11	EA	\$ 39,360.00	\$ 30,039.62	\$ 9,320.38
16	Water	Grand Rapids Arthur Remonice	Rennance Street Water Main	09/16/09	EA	\$ 1,138.44	\$ 480.00	\$ 658.44
26	Sewer	Ada Township Ada Township	30" Trunk Sewer-Argo, Aylesworth, Parmison	11/25/14	EA	\$ -	\$ 6,246.15	\$ (6,246.15)
27	Sewer	Phanfield Township Phanfield Township	Lateral in Arnold's Subdivision	02/08/09	EA	\$ -	\$ 17,422.00	\$ (17,422.00)
29	Water	Kenwood Kenwood	Wigwag Apartments	08/31/08	EA	\$ -	\$ -	\$ -
33	Sewer	EGR EGR	Bordaine Streets	02/07/08	EA	\$ -	\$ 7,469.82	\$ (7,469.82)
33	Water	EGR EGR	Bordaine Streets	02/07/08	EA	\$ -	\$ -	\$ -
34	Sewer	Cascade Cascade Charter Township	Translocation Charge NOT From Footage	04/04/08	EA	\$ -	\$ 125,240.00	\$ (125,240.00)
34	Water	Cascade Cascade Charter Township	Translocation Charge NOT From Footage	04/04/08	EA	\$ -	\$ 248,136.92	\$ (248,136.92)
51	Water	GRT Kent Intermediate School	Lincoln School	08/03/02	EA	\$ 123,177.62	\$ 70,650.73	\$ 52,526.89
117	Sewer	Kenwood Kenwood	East Paris Avenue	04/21/05	06/23/15	\$ 31,650.00	\$ -	\$ 31,650.00
118	Sewer	Walker Walker	Dreamscape Phase 1	09/26/05	09/20/15	\$ 40,987.00	\$ -	\$ 40,987.00
119	Sewer	Talawadge Land Acquisition LLC	Lake Michigan Estates Phase 1	05/05/07	06/05/17	\$ 10,075.80	\$ -	\$ 10,075.80
120	Sewer	Cascade MAAS Johnson Properties	Turnbury Development	01/26/10	01/26/20	\$ 1,179,000.00	\$ -	\$ 1,179,000.00
121	Water	GRT ABC Land Development	Rainbow Club Development	09/15/11	09/15/21	\$ 36,322.50	\$ 9,455.00	\$ 26,867.50
122	Sewer	GRT GR Charter Township	Dunigan Avenue	08/14/12	08/14/22	\$ 18,452.00	\$ -	\$ 18,452.00
123	Water	GRT GR Charter Township	Dunigan Avenue	05/14/12	08/14/22	\$ 48,470.00	\$ -	\$ 48,470.00
123	Sewer	Cascade Cascade Charter Township	Stonebush Site Condo Phase 2	05/15/14	05/15/24	\$ 56,785.00	\$ -	\$ 56,785.00
124	Water	Cascade Cascade Charter Township	Stonebush Site Condo Phase 2	05/15/14	05/15/24	\$ 43,340.00	\$ -	\$ 43,340.00
124	Sewer	Kenwood Seelickse	Seelickse Park Drive Interceptor NOT From Footage	12/23/02	EA	\$ 450,000.00	\$ -	\$ 450,000.00
125	Sewer	Walker City of Walker	Cambridge Grove Development	05/09/14	09/09/24	\$ 45,000.00	\$ -	\$ 45,000.00
<b>TOTALS</b>						<b>\$ 2,220,545.19</b>	<b>\$ 14,506.90</b>	<b>\$ 2,196,038.29</b>

- NOTE1: City Engineering Office working with City Attorney's Office to expire and/or set expiration dates on open-ended payback agreements, formal action requirement through City Commission expected
- NOTE2: Negative agreement balances represent payback agreements with no at-solvent agreement amount
- NOTE3: Project names in red font are not From Footage Agreements
- NOTE4: Payback agreements are on file in the City Engineer's Office and available upon request

**ATTACHMENT E**

**City of Grand Rapids, Michigan  
History of Front Footage & Connection Fees**

RS Year	Connection Fees - Water						Connection Fees - Sewer						Total	Weight		
	Adj	Cascade	East GR	GR Twp	Grand Rapids	Westwood	Adj	Cascade	East GR	GR Twp	Grand Rapids	Westwood				
13	55,539	182,310	15,878	187,115	179,850	152,883	45,429	133,815	15,678	177,726	175,689	131,627	28,671	74,910	2,788	786,343
14	61,505	178,650	28,178	176,988	151,358	158,288	45,392	189,430	28,278	178,993	150,625	153,698	94,589	77,199		838,054
15	16,422	277,649	9,178	98,568	225,108	159,788	10,529	255,488	9,178	97,778	223,401	162,762	59,147	116,932	60	929,275

RS Year	Front Footage and Lateral Fees - Water						Front Footage and Lateral Fees - Sewer						Total	Weight		
	Adj	Cascade	East GR	GR Twp	Grand Rapids	Westwood	Adj	Cascade	East GR	GR Twp	Grand Rapids	Westwood				
13		32,713		22,137	19,648					21,793	19,316					41,109
14		2,574		7,511				2,800		7,010	20,510	30,880		7,210		68,410
15		141,324			9,108			10,625			7,055	4,400		5,940		28,020

ATTACHMENT F

Rate Impact of New Methodology for Connection to the Water and Sewer Utility Systems

Water Utility	
Total Res. Available (FY)	\$ 374,240
Total Current Water PFC	\$ 450,745
Total	\$ 824,985
2016 Rate Study (FY)	\$ 1,000,000
Current (FY) - Water	\$ 1,000,000
DIFF	\$ 175,015
% Change	18%

	Rate Impact by Customer Community													Total			
	GR	GRY	OWW	WUP	CAS	TAL	BLR	ADA	WR	CAL	OTY	Green					
Proposed Connection Fees	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000	\$ 590,000
New Water PFC Credit	299,940	299,940	299,940	299,940	299,940	299,940	299,940	299,940	299,940	299,940	299,940	299,940	299,940	299,940	299,940	299,940	299,940
Increase in Revenue Requirement	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060	\$ 290,060
Percentage Impact	1.24%	1.40%	1.54%	1.81%	1.55%	1.80%	1.66%	1.78%	1.60%	1.60%	0.00%	0.00%	0.00%	0.00%	0.00%	1.34%	

Sewer Utility	
Total Res. Available (FY)	\$ 102,870
Total Current Sewer PFC	\$ 419,100
Total	\$ 521,970
2016 Rate Study (FY)	\$ 1,000,000
Current (FY) - Sewer	\$ 1,000,000
DIFF	\$ 478,030
% Change	48%

	Rate Impact by Customer Community													Total			
	GR	GRY	OWW	WUP	CAS	TAL	BLR	ADA	WR	CAL	OTY	Green					
Proposed Connection Fees	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000
New Sewer PFC Credit	215,040	215,040	215,040	215,040	215,040	215,040	215,040	215,040	215,040	215,040	215,040	215,040	215,040	215,040	215,040	215,040	215,040
Increase in Revenue Requirement	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040	\$ 215,040
Percentage Impact	1.00%	1.22%	1.20%	1.28%	1.25%	1.30%	1.20%	1.25%	1.20%	1.20%	0.00%	0.00%	0.00%	0.00%	0.00%	1.25%	

Note: Analysis was developed from the 2016 Rate Study for rate impact analysis. Currently Water and Sewer Connection Fees are applied as a credit against customer minimum PFC revenue requirement. The proposed PFC credits will replace the current connection fee credit.



# CASCADE CHARTER TOWNSHIP

2865 Thornhills SE Grand Rapids, Michigan 49546-7140

**Date:** March 9, 2018  
**To:** Cascade Charter Township Board  
**From:** Supervisor Rob Beahan  
**Subject:** Appointment to Planning Commission

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I ask that the Township Board confirm the following appointment to the Planning Commission of Cascade Charter Township. This appointment will fill the unexpired 3rd term of Sue Williams which will expire on 12-31-18. Sue resigned due to a continuous time conflict with another enterprise she is involved with.

Lisa Krieter is a resident of Cascade and is the Executive Assistant to the Chief Financial Officer of the Grand Rapids Public Schools. Lisa has a degree in Marketing and is currently working on the final stages of her Master's Degree in Human Resources. She has been a frequent volunteer with Forest Hills Public Schools, a strong supporter of local businesses and would like to be part of the process to help build a viable and strong Cascade.

## Planning Commission

Name

Lisa Krieter

Term

Fill un-expired term of Sue Williams  
which will expire 12-31-18.