



CASCADE CHARTER TOWNSHIP

2865 Thornhills SE Grand Rapids, Michigan 49546-7140

NOTICE OF PUBLIC MEETING VIA VIDEO CONFERENCE

In accordance with Public Act 228 of 2020, which declares that public bodies subject to the Open Meetings Act can use telephone and/or video conferencing technology to meet and conduct business during the ongoing COVID-19 pandemic, the Cascade Charter Township Board of Trustees will conduct a regular meeting on Wednesday, Wednesday January 13 at 7:00pm utilizing the Zoom video conferencing platform, for the purpose of conducting official business while complying with the Michigan Department of Health and Human Services orders and recommendations designed to help prevent the spread of COVID-19. For up-to-date information regarding the ongoing public health crisis, please visit:

<http://www.Michigan.gov/coronavirus> or <http://www.CDC.gov/coronavirus>

INSTRUCTIONS FOR ACCESS AND PARTICIPATION

Meeting ID: 857 1046 0111

Please click the link below to join the webinar:

<https://us02web.zoom.us/j/85710460111>

iPhone one-tap :

US: +19292056099,,85710460111#

or

+13017158592,,85710460111#

Telephone:

(for higher quality, dial a number based on your current location):

US: +1 929 205 6099

or +1 301 715 8592

or +1 312 626 6799

or +1 669 900 6833

or +1 253 215 8782

or +1 346 248 7799

International numbers available: <https://us02web.zoom.us/j/85710460111>

Members of the public with disabilities may utilize the Michigan Relay System (7-1-1) to participate in the meeting. If other aids or services are needed for individuals with disabilities please contact the Township Deputy Clerk, Padley Gallagher, at pgallagher@cascadetwp.com or 616-949-1500 at least 24 hours prior to the meeting

PUBLIC PARTICIPATION

Members of the public will be able to listen to and view all discussion by the Township Board and all official materials for this meeting prepared for the Township Board will be included in the meeting packet and available to the public on the Township website www.cascadetwp.com Individuals will be permitted to speak during public comment periods in accordance with the Township Remote Public Meeting Procedure Policy.

If you would like to contact the Cascade Township Board about any matter, on the agenda or otherwise, please do so via email at the addresses below a minimum of 8 hours prior to the meeting. If you wish comments to be read into the public record during the public comment period, you must indicate so and draft communication that can be read in the allotted 3-minute timeframe.

Supervisor Grace Lesperance: glesperance@cascadetwp.com

Clerk Sue Slater: sslater@cascadetwp.com

Treasurer Ken Peirce: kpeirce@cascadetwp.com

Trustee Jim Koessel: jkoessel@cascadetwp.com

Trustee Timothy Noordhoek: tnoordhoek@cascadetwp.com

Trustee Tom McDonald: tmcdonald@cascadetwp.com

Trustee John Shipley: jshipley@cascadetwp.com

Manager Ben Swayze: bswayze@cascadetwp.com

AGENDA
CASCADE CHARTER TOWNSHIP
REGULAR BOARD MEETING

Wednesday, January 27, 2021

7:00 P.M.

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 Minutes
1. Planning Commission Minutes – January 4, 2021
 2. Township Board Minutes – January 13, 2021
- Article 7. Financial Actions**
- a. Receive and File Financial Statements
1. Payables, Payrolls, and Transfers – December 2020
- Article 8. Unfinished Business**
- Article 9. New Business**
- 006-2021 Consider Approval of Purchase of Medic One and Chief Vehicles for Fire Department.**
- 007-2021 Consider Final Plan Approval for Phase Two of Golden Valley.**
- 008-2021 City of Grand Rapids / Cascade Charter Township Consolidation and Contamination Risk Reduction (C2R2) Grant Application.**
- 009-2021 Hold Second Public Hearing for Laraway Lake Special Assessment District No. 1 for the purposes of reviewing the special assessment roll and for hearing all persons interested in the special assessment roll and any objections to the roll.**

010-2021

Hold Second Public Hearing for Thornapple River Special Assessment District No. I for the purposes of reviewing the special assessment roll and for hearing all persons interested in the special assessment roll and any objections to the roll.

- Article 10. Closed Session
-Pursuant to Open Meetings Act 15.268 (h) – To Consider Material Exempt from Discussion or Disclosure by State or Federal.**
- Article 11. Public Comments – Any comments...whether it is on the Agenda or not.
(limit comments to 3 minutes)**
- Article 12. Manager Comments**
- Article 13. Board Member Comments**
- Article 14. Adjournment**

MINUTES

Cascade Charter Township Planning Commission

Monday, January 4, 2021

7:00 P.M.

Virtual Meeting

ARTICLE 1. Chairman Rissi called the meeting to order at 7:00 P.M.
Members Present: Noordyke, Johnson, Rissi, Slater, Deering, Rapin, Krieter, and Moxley
Members Absent: (excused) Katsma
Others Present: Community Development Director, Steve Peterson, and Planner, Brian Hilbrands

ARTICLE 2. Pledge of Allegiance

ARTICLE 3. Approve the current Agenda

Motion was made by Member Johnson to approve the Agenda. Supported by Member Moxley. Motion carried 8 to 0.

ARTICLE 4. Approve the Minutes of the December 21, 2020 meeting.

Motion was made by Member Slater to approve the minutes as written. Supported by Member Deering. Motion carried 8 to 0.

ARTICLE 5. Acknowledge visitors and those wishing to speak to non-agenda items.

There were no visitors.

ARTICLE 6. Case #20-3599/Green Castle Properties

Property Address: 6095, 6115, 6143 28th St. SE

Requested Action: The applicant is requesting preliminary plan approval to amend the existing PUD to accommodate a new car dealership.

Planner Brian Hilbrands stated that this is a continuation of the applicants request for a preliminary plan approval to amend PUD 67 and allow the construction of a new Subaru dealership. This application was last seen December 7, 2020, during a public hearing in which a decision was tabled until additional information was submitted by the applicant. Planner Hilbrands stated that information requested from the applicant has been received, however final approval from the Kent County Road Commission has yet to be received. Planner Hilbrands believes any changes the Road Commission would request at this point are likely to be minor, and that there is a condition stating that any requested changes will need to be made by the applicant.

Planner Hilbrands states that the Township Engineer and Drain Commissioner have both reviewed and approved this plan, and that there will be permits from other agencies the applicant will need to obtain before construction; those permits are addressed in the Engineers letter. The applicant will also need to provide a stormwater maintenance

agreement. Planner Hilbrands states that the required survey showing all three parcels of the project combined into one parcel has been received, and that lot combination is currently being processed. A revised photometric plan that shows all illumination levels below 5-foot candles as required by a Township ordinance was received, however Planner Hilbrands states that was based on the prior site plan before the eastern driveway was moved, so another revised photometric plan is being requested.

Planner Hilbrands states that this plan includes a robust landscaping plan, so a \$27,000 landscaping bond is being requested.

Planner Hilbrands states that if this preliminary plan is approved, a PUD amendment will be drafted to come before the Planning Commission before going to the Township Board for a Public Hearing.

Planner Hilbrands states that Staff is recommending approval of the preliminary plan with the six conditions listed in the staff report.

Member Moxley asked if the north parking lot shown on the plan is existing, or planned. Planner Hilbrands stated that it is existing, and will be included in PUD 67.

Chairman Rissi invited the applicant to comment.

Mr. Colin Schiefler stated that he was available to answer any questions.

Member Moxley asked if the water detention from parking lot runoff will be stored underground, Planner Hilbrands stated that yes, it is underground in the NW section of the parking lot.

Chairman Rissi noted the change of location the driveway off of 28th St. to line up with Lucerne.

Motion was made by Member Moxley to approve the plan as presented and to include the Staff recommendations listed below. Supported by Member Noordyke. Motion carried 8 to 0.

- The applicant complies with the Township Engineer letter dated 12/28/2020
- All necessary permits are obtained before construction begins
- The stormwater maintenance agreement is recorded
- A landscape bond of \$27,000 is submitted
- The applicant complies with any additional comment from the KCRC
- A revised photometric plan is submitted from the most recent site plan
- The lot combination is completed

ARTICLE 7. Election of Officers

Chairman Rissi stated that although Member Katsma is not present, he did state that he is willing to serve as Secretary for another term.

Director Peterson stated that two, one-year terms can be served, and that all current positions are eligible for re-election if chosen. Member Slater is not eligible to be an Officer as she is a Township Board Member. Committee appointments to the VDRC, and a Planning Commission Member on the Zoning Board of Appeals also need to be chosen.

Motion was made by Member Slater to have Chairman Rissi remain as Chair, Member Johnson remain as Vice Chair, and Member Katsma remain as Secretary. Supported by Member Rapin. Motion carried 8 to 0.

Motion was made by Member Johnson to reappoint Member Moxley to the Zoning Board of Appeals for a second one-year term. Supported by Member Deering. Motion carried 8 to 0.

Motion was made by Member Rapin to appoint Member Krieter to the Village Design Review Committee for a second one-year term. Supported by Member Johnson. Motion carried 8 to 0.

Election of officers of the Planning Commission:

Chairman: Member Rissi (2nd consecutive term)

Vice-Chairman: Member Johnson (2nd consecutive term)

Secretary: Member Katsma (2nd consecutive term)

Appointment to the Zoning Board of Appeals:

Member Moxley (2nd consecutive term)

Appointment to the Village Design Review Committee:

Member Krieter (2nd consecutive term)

ARTICLE 8. 2020 Annual Report

Director Peterson presented the report to Members for review, and asked if Members had any questions.

Member Rapin asked what the Vision Zero policy is about. Director Peterson stated that Vision Zero policy is a road traffic safety project that aims to achieve zero fatalities or serious injuries involving road traffic within the Township.

Member Moxley asked about the status of the pedestrian bridge on Burton over I96. Director Peterson stated that there has been a large grant received for this project, and design is underway.

ARTICLE 9. Rules of Conduct

Director Peterson reminded Members about communication rules with other Members, applicants, neighbors, builders, and the general public. Director Peterson stated that should Members be approached by anyone when out, to inform that person/s that communication needs to take place at/during Planning Commission Meetings. Chairman Rissi added that he believes site visits are important for Members to do, so it is important to read through the rules to be familiar.

ARTICLE 10. Planning Principles

Director Peterson presented the Planning Principles to Members for review.

ARTICLE 11. 2021 Calendar

Director Peterson noted Meeting dates that are moved for holidays.

Member Moxley asked about the allowance of virtual public meetings expiring. Director Peterson stated that the expiration date at this time is January 15th, but stated that he believes it will likely be extended. Chairman Rissi asked if hybrid virtual/in person meetings are possible, Director Peterson stated that they may be in the future.

Member Noordyke asked if follow up on larger cases can be provided on a more regular basis as once a decision is made by the Planning Commission, most cases are not heard about again.

Member Noordyke asked Director Peterson for an update about the Round Hill case, Director Peterson provided an update on fines assessed, project deadlines, obtaining permits, and more related to the Round Hill case. Director Peterson stated that one singular building permit has been issued at this time. Director Peterson stated that cost incurred by the Township are being recouped by escrow policies, and other protections required of this developer.

Member Johnson agrees that regular updates on cases will be appreciated.

Member Moxley asks for an update on the Township Office moving to the new facility. Director Peterson stated the move has begun, with the Building Department moving mid-January, and remaining Staff moving in March. The Fire Department is still in the planning process for the future of Station 1, which is adjacent to the current Township Office building.

Member Slater asked for an update about a recent case on Sequoia Drive related to a fence. Planner Hilbrands stated that their deadline to bring the fence into compliance is this coming Thursday, and that the contractor is planning to have to work completed by them. Planner Hilbrands stated that he will inspect the site after the deadline.

Chairman Rissi voiced his support and appreciation in receiving Planning Commission case updates in the future.

ARTICLE 12. Any other business

There was no other business.

ARTICLE 13. Adjournment

Motion was made by Member Rapin to adjourn. Supported by Member Krieter. Motion carried 8 to 0. The meeting was adjourned at 7:41 p.m.

Respectfully submitted,
Brett Katsma, Secretary

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

Wednesday, January 13, 2021

7:00 P.M.

Article 1. Supervisor Lesperance called the meeting to order.
Present: Supervisor Lesperance, Clerk Slater, Treasurer Peirce, Trustees Koessel, Shipley, Noordhoek, and McDonald.
Absent: None.
Also Present: Township Manager Swayze, Assistant Township Manager Fast, DDA Director Korhorn, Kent County Election Director Uzarski, and Community Policing Officer Dieppa.

Article 2. Supervisor Lesperance led the Pledge of Allegiance.

Article 3. Approval of Agenda
Motion was made by Trustee Koessel and supported by Treasurer Peirce to approve the Agenda as presented. Motion carried unanimously.

Article 4. Presentations

1. Kent County Election Director Gerrid Uzarski spoke on the integrity of election process in Kent County.
2. Community Policing Officer Deputy Dieppa spoke on the recent increase in vehicle break ins.

Article 5. Public Comments
Keely Shay – 7486 Alaska Ridge. – Addressed Kent County Election Director Gerrid Uzarski about the Election Audit in Cascade Township.
Molly Miller – 1490 Briarcliff Dr. – Addressed Kent County Election Director Gerrid Uzarski about the Election Audit in Cascade Township.
Craig Meurlin – 6333 Thornhills Ave. – Addressed the Board about his concern in the recording of the Minutes.

Article 6. Approval of Consent Agenda

- a. Receive and File Reports
 1. Inspectors Report – December 2020
 2. Bank and Investment Reports - 2020
- b. Receive and File Minutes
 1. Township Board Minutes – December 16, 2020
- c. Receive and File Education Requests
 1. Stephanie Fast – Grand Valley State University

Motion was made by Clerk Slater and supported by Trustee Koessel to approve the Consent Agenda with the clarification that in the December 16 Meeting Minutes, Trustee Noordhoek’s vote on Item 91-2020A. (Planning Commission Appointments) was abstain, rather than in favor, and the addition of the addendum from Kent County Clerk Lisa Lyons. Motion carried unanimously.

Article 7. Financial Actions

- a. Receive and File Financial Statements
 1. Payables, Payrolls, and Transfers – November 2020
 2. Financial Statements – November 2020

Motion was made for approval of Financial Actions by Treasurer Peirce and supported by Trustee Shipley. Motion carried unanimously by roll call vote.

Article 8. Unfinished Business

Article 9. New Business

001-2021 Consider Recommendation to Broadcast Township Meetings and Community News on Comcast Cable Channel.

Motion was made for approval by Treasurer Peirce and supported by Trustee Shipley. Motion carried unanimously by roll call vote.

002-2021 Consider the Kent County Urban County Cooperative Agreement.

Motion was made for approval by Trustee McDonald and supported by Trustee Shipley. Motion carried unanimously by roll call vote.

003-2021 Consider Township Strategic Plan.

Motion was made for approval by Trustee McDonald and supported by Trustee Shipley. Motion carried unanimously by roll call vote.

004-2021 Consider Resolution of "Acknowledgement of Filing and Presentation of the Special Assessment Roll to the Township Board; Notice of Public Hearing" for Thornapple River Special Assessment District #1.

Motion was made for approval by Trustee Shipley and supported by Trustee Koessel. Motion carried unanimously by roll call vote.

005-2021 Consider Resolution of "Acknowledgement of Filing and Presentation of the Special Assessment Roll to the Township Board; Notice of Public Hearing" for Laraway Lake Special Assessment District # 1.

Motion was made for approval by Trustee Koessel and supported by Trustee Shipley. Motion carried unanimously by roll call vote.

Article 11. Public Comments – Any comments...whether it is on the Agenda or not.

Paul Strauss – 7474 Alaska Ridge – Addressed the board about the Special Assessment District Public Hearing Date.

Keely Shay – 7486 Alaska Ridge. – Addressed the Board about the Wisner Center Camera System Upgrade Expenditure.

Article 12. Manager Comments

Manager Swayze made the following comments:

- Township Hall remains open, but closed to walk-in traffic.
- Governor's update will continue remote Meetings until Feb. 1.
- The Brownfield Authority process is beginning, which will require the appointment of a BRA Board.

Article 13. Board Member Comments

Trustee Shipley offered the following comments:

- Thanked the residents for attending the meeting.

Supervisor Lesperance offered the following comment:

- Let the Public know that the Township is working on the PFAS issue in certain neighborhoods.
- Thanked Jim McDonald and the Building and Grounds Department for their work in the cemetery.
- She wants the Minutes recorded in compliance with the Open Meetings Act in order to create transparency.

Article 14. Adjournment

Motion was made by Clerk Slater and supported by Trustee Shipley to adjourn.

Motion carried unanimously.

Meeting adjourned at 8:59p.m.

Respectfully submitted,

Padley Gallagher
Deputy Clerk

Approved by:

Susan B. Slater, Clerk

CHECK DISBURSEMENT REPORT FOR CASCADE CHARTER TOWNSHIP
CHECK DATE FROM 12/01/2020 - 12/31/2020

Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
FUND 101 - GENERAL FUND							
12/03/2020	GENF	72096	ALLIED UNIVERSAL TECHNOLOGY SERVICE	MUSEUM MAINTENANCE	961-000	803	173.80
12/03/2020	GENF	72098	B & B TRUCK EQUIPMENT INC	VEHICLE MAINT	863-000	265	826.62
12/03/2020	GENF	72101*#	B&V MECHANICAL INC.	COMPLEX MAINTENANCE	931-000	265	955.41
12/03/2020	GENF	72102	CASCADE PRINTING & GRAPHICS	OFFICE SUPPLIES	727-000	295	199.50
12/03/2020	GENF	72104	CASCADE CHARTER TOWNSHIP	TRANSFER TO FIRE FUND	999-006	965	33,333.33
12/03/2020	GENF	72106*#	CASCADE CHARTER TOWNSHIP	WINTER TAX 2020	787-000	295	3.92
12/03/2020	GENF	72106	CASCADE CHARTER TOWNSHIP	WINTER 2020 TAX	787-000	295	8.25
				CHECK GENF 72106 TOTAL FOR FUND 101:			<u>12.17</u>
12/03/2020	GENF	72107*#	COMCAST	COMPLEX PHONES	924-000	265	229.90
12/03/2020	GENF	72108*#	COMCAST	COMPLEX PHONES	924-000	265	173.66
12/03/2020	GENF	72108	COMCAST	PARK PHONES	924-000	756	23.67
				CHECK GENF 72108 TOTAL FOR FUND 101:			<u>197.33</u>
12/03/2020	GENF	72112*	FIDELITY SECURITY LIFE INS	VISION INSURANCE BENEFITS	718-000	850	210.06
12/03/2020	GENF	72117	INDUSTRIAL CHEMICAL LABS	PARK MAINTENANCE	935-000	756	246.71
12/03/2020	GENF	72118	INTEGRITY BUSINESS SOLUTIONS, LLC	OFFICE SUPPLIES	727-000	295	4.64
12/03/2020	GENF	72118	INTEGRITY BUSINESS SOLUTIONS, LLC	OFFICE SUPPLIES	727-000	295	213.18
12/03/2020	GENF	72118	INTEGRITY BUSINESS SOLUTIONS, LLC	OFFICE SUPPLIES	727-000	295	44.77
12/03/2020	GENF	72118	INTEGRITY BUSINESS SOLUTIONS, LLC	OFFICE SUPPLIES	727-000	295	124.71
				CHECK GENF 72118 TOTAL FOR FUND 101:			<u>387.30</u>
12/03/2020	GENF	72120	KATERBERG VERHAGE	CAPITAL OUTLAY - LANDIMP	974-000	901	19,125.00
12/03/2020	GENF	72121	KENT COUNTY TREASURERS ASSOC	TREASURER MEMBERSHIPS AND DUES	723-000	253	50.00
12/03/2020	GENF	72123	KENT COMMUNICATIONS INC.	TAX BILLS PRINTING	814-000	295	1,976.98
12/03/2020	GENF	72123	KENT COMMUNICATIONS INC.	4 NEWSLETTERS- WINTER	885-000	295	1,794.85
				CHECK GENF 72123 TOTAL FOR FUND 101:			<u>3,771.83</u>
12/03/2020	GENF	72124	MICHIGAN DEPARTMENT OF LICENSING	COMPLEX MAINTENANCE	931-000	265	120.00
12/03/2020	GENF	72126	MICHIGAN MUNICIPAL EXECUTIVE	SUPERVISOR MEMBERSHIPS AND DUES	723-000	171	145.00
12/03/2020	GENF	72127	AARON NEWTON	TREASURER MILEAGE	860-000	253	14.09
12/03/2020	GENF	72128	PITNEY BOWES INC	POSTAGE SUPPLIES- RED INK	730-000	295	113.04
12/03/2020	GENF	72132*#	REPUBLIC SERVICES	COMPLEX MAINTENANCE REPUBLIC	931-000	265	563.28
12/03/2020	GENF	72132	REPUBLIC SERVICES	PARK MAINTENANCE REPUBLIC	935-000	756	435.31
				CHECK GENF 72132 TOTAL FOR FUND 101:			<u>998.59</u>

CHECK DISBURSEMENT REPORT FOR CASCADE CHARTER TOWNSHIP
CHECK DATE FROM 12/01/2020 - 12/31/2020

Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
12/03/2020	GENF	72136*#	SUPERIOR PEST CONTROL INC	COMPLEX MAINTENANCE	931-000	265	50.00
12/03/2020	GENF	72136	SUPERIOR PEST CONTROL INC	MUSEUM MAINTENANCE	961-000	803	45.00
				CHECK GENF 72136 TOTAL FOR FUND 101:			95.00
12/03/2020	GENF	72139	VARNUM	LEGAL FEES	826-000	295	3,971.00
12/03/2020	GENF	72139	VARNUM	LEGAL FEES	826-000	295	209.00
12/03/2020	GENF	72139	VARNUM	LEGAL FEES	826-000	295	361.00
12/03/2020	GENF	72139	VARNUM	LEGAL FEES	826-000	295	266.00
12/03/2020	GENF	72139	VARNUM	LEGAL FEES	826-000	295	456.00
				CHECK GENF 72139 TOTAL FOR FUND 101:			5,263.00
12/03/2020	GENF	72141*#	WINDSTREAM	CELL PHONES/DATA	924-100	295	206.81
12/03/2020	GENF	72141	WINDSTREAM	PARK PHONES	924-000	756	137.87
				CHECK GENF 72141 TOTAL FOR FUND 101:			344.68
12/04/2020	GENF	6469(A)*#	CONSUMERS ENERGY	100000285161 2865 THORNHILLS AVE SE	921-000	265	1,444.17
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100012052419 6569 THORNBROOK ST SE	921-000	265	28.85
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	103023462197 2867 THORNHILLS AVE SE	921-000	265	31.63
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100012548051 5601 WHITNEYVILLE AVE SE	921-000	276	28.85
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100012957591 7200 30TH ST SE	921-000	276	32.56
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100011965082 2870 JACK SMITH AVE SE	926-000	448	116.87
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100014570673 3804 THORNAPPLE RIVE	921-000	756	97.18
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100014570889 3820 THORNAPPLE RIVER D	921-000	756	91.91
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100012592265 2900 THORNAPPLE RIVER DR	921-000	756	320.39
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100012592398 2839 THORNAPPLE RIVER DR	921-000	803	53.03
				CHECK GENF 6469(A) TOTAL FOR FUND 101:			2,245.44
12/04/2020	GENF	6470(A)	EASTERN FLORAL & GIFTS	MISCELLANEOUS	787-000	295	54.00
12/04/2020	GENF	6472(A)*#	FISHBECK THOMPSON CARR & HUBER	ENGINEERING COSTS	821-000	295	1,689.50
12/04/2020	GENF	6472(A)	FISHBECK THOMPSON CARR & HUBER	DRAIN ENGINEERING	821-000	445	3,606.50
12/04/2020	GENF	6472(A)	FISHBECK THOMPSON CARR & HUBER	CAPITAL OUTLAY - LANDIMP	974-000	901	920.00
				CHECK GENF 6472(A) TOTAL FOR FUND 101:			6,216.00
12/04/2020	GENF	6473(A)	NAPA AUTO PARTS	VEHICLE MAINT	863-000	265	60.06
12/04/2020	GENF	6474(A)	HOPE NETWORK	TRANSPORTATION SERVICES	859-000	652	372.70
12/04/2020	GENF	6477(A)	PITNEY BOWES GLOBAL	POSTAGE MACHINE LEASE- Q4 2020	941-000	295	688.17
12/04/2020	GENF	6479(A)	I T RIGHT	COMPUTER COSTS-ISP	815-000	295	3,740.51
12/04/2020	GENF	6480(A)	SUPERIOR BUSINESS SOLUTIONS	OFFICE SUPPLIES- W2'S & 1099 FORMS	727-000	295	268.03
12/04/2020	GENF	6485(A)*#	THE LIGHT BULB COMPANY	PARK OPERATING SUPPLIES	756-000	756	216.75
12/04/2020	GENF	6486(A)	THORNAPPLE RIVER NURSERY, INC.	CEMETERY MAINT	932-000	276	575.00
12/10/2020	GENF	72142	123NET	COMPLEX PHONES- EVC-100708	924-000	265	699.00
12/10/2020	GENF	72142	123NET	COMPLEX PHONES- EVC 100709	924-000	265	699.00
				CHECK GENF 72142 TOTAL FOR FUND 101:			1,398.00
12/10/2020	GENF	72143	290 SIGN SYSTEMS	MISCELLANEOUS- NAME PLATE	787-000	295	47.48
12/10/2020	GENF	72145	APPLE SPICE BOX LUNCH & CATERING CO	ELECTION MISC EXPENSES-BOXED LUNCHES	788-000	262	116.71
12/10/2020	GENF	72145	APPLE SPICE BOX LUNCH & CATERING CO	ELECTION MISC EXPENSES-BOXED LUNCHES	788-000	262	90.78

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CHECK DATE FROM 12/01/2020 - 12/31/2020

Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
12/10/2020	GENF	72145	APPLE SPICE BOX LUNCH & CATERING CO	ELECTION MISC EXPENSES	788-000	262	103.75
12/10/2020	GENF	72145	APPLE SPICE BOX LUNCH & CATERING CO	ELECTION MISC EXPENSES-BOXED LUNCHES	788-000	262	103.75
12/10/2020	GENF	72145	APPLE SPICE BOX LUNCH & CATERING CO	ELECTION MISC EXPENSES-BOXED LUNCHES	788-000	262	106.08
12/10/2020	GENF	72145	APPLE SPICE BOX LUNCH & CATERING CO	ELECTION MISC EXPENSES- BOXED LUNCHES	788-000	262	90.78
12/10/2020	GENF	72145	APPLE SPICE BOX LUNCH & CATERING CO	ELECTION MISC EXPENSES- BOXED LUNCHES	788-000	262	90.77
12/10/2020	GENF	72145	APPLE SPICE BOX LUNCH & CATERING CO	ELECTION MISC EXPENSES-BOXED LUNCHES	788-000	262	106.09
12/10/2020	GENF	72145	APPLE SPICE BOX LUNCH & CATERING CO	ELECTION MISC EXPENSES-BOXED LUNCHES	788-000	262	94.88
12/10/2020	GENF	72145	APPLE SPICE BOX LUNCH & CATERING CO	ELECTION MISC EXPENSES-BOXED LUNCHES	788-000	262	90.78
12/10/2020	GENF	72145	APPLE SPICE BOX LUNCH & CATERING CO	ELECTION MISC EXPENSES	788-000	262	155.62
12/10/2020	GENF	72145	APPLE SPICE BOX LUNCH & CATERING CO	ELECTION MISC EXPENSES-BOXED LUNCHES	788-000	262	<u>104.32</u>
				CHECK GENF 72145 TOTAL FOR FUND 101:			1,254.31
12/10/2020	GENF	72148	CARLETON EQUIPMENT	VEHICLE MAINT	863-000	265	20.75
12/10/2020	GENF	72150	CASCADE CHARTER TOWNSHIP	TRANSFER TO DAM MAJOR REPAIR- 4TH Q	999-005	965	10,000.00
12/10/2020	GENF	72154*#	DTE ENERGY	COMPLEX HEATING DTE ENERGY	923-000	265	709.53
12/10/2020	GENF	72154	DTE ENERGY	COMPLEX HEATING- 5920 TAHOE	923-000	265	846.79
12/10/2020	GENF	72154	DTE ENERGY	MUSEUM HEATING DTE ENERGY	923-000	803	78.05
				CHECK GENF 72154 TOTAL FOR FUND 101:			1,634.37
12/10/2020	GENF	72155	EMPLOYEE ASSISTANCE CENTER	EAP ANNUAL CONTRACT	723-000	850	1,500.00
12/10/2020	GENF	72156	ENGELSMA HOMES	LMUC DEPOSIT FOR BUTTRICK PRIVATE ROAD	671-677	000	76,300.00
12/10/2020	GENF	72157*#	GRAND RAPIDS CITY TREASURER	7150 30TH ST	927-000	265	168.00
12/10/2020	GENF	72157	GRAND RAPIDS CITY TREASURER	TASSELL PARK IRRIGATION METER	927-000	756	197.18
12/10/2020	GENF	72157	GRAND RAPIDS CITY TREASURER	TASSELL PARK WATER-SEWER	927-000	756	373.94
12/10/2020	GENF	72157	GRAND RAPIDS CITY TREASURER	MUSEUM WATER-SEWER	927-000	803	70.31
12/10/2020	GENF	72157	GRAND RAPIDS CITY TREASURER	MUSEUM IRRIGATION	927-000	803	199.92
				CHECK GENF 72157 TOTAL FOR FUND 101:			1,009.35
12/10/2020	GENF	72165	MLIVE MEDIA GROUP	PRINTING & PUBLISHING	900-000	721	408.00
12/10/2020	GENF	72167*#	MUNIWEB	WEBSITE HOSTING (MADE IN CASCADE)	815-000	295	228.00
12/10/2020	GENF	72168	PHOENIX RESOURCES LLC	FALL 2020 BULK LEAF PROGRAM	820-000	447	7,150.00
12/10/2020	GENF	72172	STATE OF MICHIGAN UI	FICA-EMPLOYER- 3RD QRT PYMT	715-000	850	60.00
12/10/2020	GENF	72173*#	SUPERIOR PEST CONTROL INC	COMPLEX MAINTENANCE	931-000	265	50.00
12/10/2020	GENF	72173	SUPERIOR PEST CONTROL INC	MUSEUM MAINTENANCE	961-000	803	45.00
				CHECK GENF 72173 TOTAL FOR FUND 101:			<u>95.00</u>
12/10/2020	GENF	72177	TURF SERVICES INC.	PARK MAINTENANCE	935-000	756	2,125.00
12/10/2020	GENF	72178*#	VERIZON WIRELESS	MANAGERS CELL PHONE & EQUIPMENT	925-000	171	324.83
12/10/2020	GENF	72178	VERIZON WIRELESS	CLERK CELL PHONE	925-000	215	52.18
12/10/2020	GENF	72178	VERIZON WIRELESS	CELL PHONES/DATA	924-100	257	192.24
12/10/2020	GENF	72178	VERIZON WIRELESS	BLDG AND GROUNDS CELL PHONES	924-100	265	358.26
12/10/2020	GENF	72178	VERIZON WIRELESS	CELL PHONES/DATA	924-100	295	99.96
12/10/2020	GENF	72178	VERIZON WIRELESS	COMM DEV CELL/DATA	925-000	721	299.88
				CHECK GENF 72178 TOTAL FOR FUND 101:			<u>1,327.35</u>
12/11/2020	GENF	6494(A)	CONSUMERS ENERGY	1030 3693 2491 5920 TAHOE DR SE	921-000	265	748.38

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12/11/2020	GENF	6495(A)*#	FISHBECK THOMPSON CARR & HUBER	PROJ 201229 BROWNFIELD CONSULTING BT1	967-000	721	143.58
12/11/2020	GENF	6497(A)*#	KONICA MINOLTA BUSINESS SOLUTIONS	PRINTING/PUBLISHING	900-000	295	161.55
12/11/2020	GENF	6497(A)	KONICA MINOLTA BUSINESS SOLUTIONS	PRINTING/PUBLISHING	900-000	295	44.70
12/11/2020	GENF	6497(A)	KONICA MINOLTA BUSINESS SOLUTIONS	PRINTING/PUBLISHING	900-000	295	214.33
				CHECK GENF 6497(A) TOTAL FOR FUND 101:			420.58
12/11/2020	GENF	6502(A)	THE LIGHT BULB COMPANY	PARK OPERATING SUPPLIES	756-000	756	51.75
12/17/2020	GENF	72181	B & B TRUCK EQUIPMENT INC	TURF MASTER ELEMENT AND FILTERS	863-000	265	374.53
12/17/2020	GENF	72182	BARTLETT TREE EXPERTS	COMPLEX MAINTENANCE	931-000	265	18.70
12/17/2020	GENF	72183	BLACKSTAR BUILDING GROUP INC	30TH ST CEMETERY BUILDING	974-000	901	1,000.00
12/17/2020	GENF	72184	BLOOM SLUGGETT, PC	LEGAL FEES - BLOOM SLUGGETT	826-000	295	1,507.50
12/17/2020	GENF	72186	CASCADE PRINTING & GRAPHICS	OFFICE SUPPLIES- BUS CARDS. G. LESPERANC	727-000	295	84.90
12/17/2020	GENF	72187	CASCADE CHARTER TOWNSHIP	TRANSFER TO FIRE FUND	999-006	965	0.04
12/17/2020	GENF	72189	CONSUMERS ENERGY	STREETLIGHTING	926-000	448	10,357.26
12/17/2020	GENF	72189	CONSUMERS ENERGY	STREETLIGHTING	926-000	448	261.21
				CHECK GENF 72189 TOTAL FOR FUND 101:			10,618.47
12/17/2020	GENF	72190*#	CINTAS	COMPLEX MAINTENANCE	931-000	265	514.72
12/17/2020	GENF	72191	FAST, STEPHANIE	SUPERVISOR INTRO BOOKS	724-000	171	57.50
12/17/2020	GENF	72192*#	THE HOME DEPOT CREDIT SERVICES	CAUTION TAPE	756-000	262	23.97
12/17/2020	GENF	72193	KENT COMMUNICATIONS INC.	TAX/ASSESSING ADMIN COSTS	814-000	295	195.05
12/17/2020	GENF	72193	KENT COMMUNICATIONS INC.	TAX/ASSESSING ADMIN COSTS	814-000	295	3,121.34
12/17/2020	GENF	72193	KENT COMMUNICATIONS INC.	4 NEWSLETTERS- WINTER 2020	885-000	295	1,914.41
				CHECK GENF 72193 TOTAL FOR FUND 101:			5,230.80
12/17/2020	GENF	72197	PADLEY GALLAGHER	CLERK MILEAGE- P. GALLAHER	860-000	215	146.97
12/17/2020	GENF	72199	PHOENIX RESOURCES LLC	SPRING/FALL CLEAN-UP	820-000	447	4,550.00
12/17/2020	GENF	72200	PSI PRINTING SYSTEMS INC	ELECTION SUPPLIES	756-000	262	59.57
12/17/2020	GENF	72200	PSI PRINTING SYSTEMS INC	ELECTION SUPPLIES	756-000	262	644.48
12/17/2020	GENF	72200	PSI PRINTING SYSTEMS INC	ELECTION SUPPLIES	756-000	262	618.39
12/17/2020	GENF	72200	PSI PRINTING SYSTEMS INC	ELECTION SUPPLIES	756-000	262	539.58
12/17/2020	GENF	72200	PSI PRINTING SYSTEMS INC	ELECTION SUPPLIES	756-000	262	526.71
12/17/2020	GENF	72200	PSI PRINTING SYSTEMS INC	ELECTION SUPPLIES	756-000	262	437.69
12/17/2020	GENF	72200	PSI PRINTING SYSTEMS INC	ELECTION SUPPLIES	756-000	262	425.03
12/17/2020	GENF	72200	PSI PRINTING SYSTEMS INC	ELECTION SUPPLIES	756-000	262	62.68
12/17/2020	GENF	72200	PSI PRINTING SYSTEMS INC	ELECTION SUPPLIES	756-000	262	289.85
12/17/2020	GENF	72200	PSI PRINTING SYSTEMS INC	ELECTION SUPPLIES	756-000	262	55.44
12/17/2020	GENF	72200	PSI PRINTING SYSTEMS INC	ELECTION SUPPLIES- CREDIT	756-000	262	(1,100.98)
12/17/2020	GENF	72200	PSI PRINTING SYSTEMS INC	ELECTION SUPPLIES- CREDIT	756-000	262	(1,062.31)
				CHECK GENF 72200 TOTAL FOR FUND 101:			1,496.13

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12/17/2020	GENF	72201	RIVERHOUSE	BLDG & GROUNDS UNIFORMS	768-000	265	435.64
12/17/2020	GENF	72202*#	SMART BUSINESS SOURCE	OFFICE SUPPLIES	727-000	295	27.12
12/17/2020	GENF	72207*#	VERIZON WIRELESS	TRUSTEE 2 NEW IPADS	924-100	101	1,290.00
12/17/2020	GENF	72207	VERIZON WIRELESS	MANAGERS IPAD/ SUPERVISOR NEW IPAD	925-000	171	697.78
12/17/2020	GENF	72207	VERIZON WIRELESS	CLERK CELL IPAD	925-000	215	77.81
12/17/2020	GENF	72207	VERIZON WIRELESS	TREASURER'S IPAD	924-100	253	10.02
12/17/2020	GENF	72207	VERIZON WIRELESS	ASSESSING IPADS	924-100	257	10.02
12/17/2020	GENF	72207	VERIZON WIRELESS	BLDG AND GROUNDS IPADS & MODEM	924-100	265	79.40
12/17/2020	GENF	72207	VERIZON WIRELESS	ADMIN IPAD	924-100	295	10.02
12/17/2020	GENF	72207	VERIZON WIRELESS	COMM DEV IPADS	925-000	721	20.04
				CHECK GENF 72207 TOTAL FOR FUND 101:			2,195.09
12/18/2020	GENF	6509(A)*#	BEHRENS LIMITED LLC	1 PLY, 2,000 PER CASE, 20 CASES, DOGPARK	935-000	756	1,693.59
12/18/2020	GENF	6512(A)	EASTERN FLORAL & GIFTS	PLANTSCAPE- DEC. 2020	787-000	295	54.00
12/18/2020	GENF	6515(A)*#	KINGSLAND'S ACE HARDWARE	HAND TRUCK	863-000	265	30.59
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	TRIMMER BLOWER SRV KIT TUNE-UP KIT	863-000	265	198.78
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	DAY LINEAR LED	931-000	265	11.69
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	ADHESIVE E-6000	932-000	276	5.39
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	BATTERY POLYURETHANE ADHESIVE	932-000	276	10.96
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	POLY TARP	932-000	276	30.58
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	EXTN CORD	961-000	803	26.99
				CHECK GENF 6515(A) TOTAL FOR FUND 101:			314.98
12/18/2020	GENF	6518(A)	RICOH USA INC	SERVICE CONTRACTS-RICOH	939-000	295	64.58
12/18/2020	GENF	6529(A)*#	WEX BANK	FUEL	864-000	265	679.00
12/22/2020	GENF	72211	BSB COMMUNICATIONS INC	PHONE REPAIR	931-000	265	180.00
12/22/2020	GENF	72212	COMCAST	COMPLEX PHONES-5920 TAHOE- DEC 2020	924-000	265	650.00
12/22/2020	GENF	72214	DISCOUNT TIRE	TIRE MAINTENANCE Z MASTER 7000	863-000	265	16.00
12/22/2020	GENF	72216*#	FIRST BANKCARD	ONLINE EDUCATION ACCESS	724-000	101	1,900.00
12/22/2020	GENF	72216	FIRST BANKCARD	CC SWAYZE - IPAD CASE	981-000	101	58.28
12/22/2020	GENF	72216	FIRST BANKCARD	CC GENTER - MEMBERSHIP DUES H.BENEDICT	723-000	257	220.00
12/22/2020	GENF	72216	FIRST BANKCARD	COVID 19 EXPENSES	755-000	295	38.35
				CHECK GENF 72216 TOTAL FOR FUND 101:			2,216.63
12/22/2020	GENF	72217*#	FIRST BANKCARD	EPSON CHECK SCANNER	981-000	253	532.59
12/22/2020	GENF	72217	FIRST BANKCARD	CC ADMIN - CREDIT EPSON CHECK SCANNER	981-000	253	(22.59)
12/22/2020	GENF	72217	FIRST BANKCARD	ASSESSING OFFICE SUPPLIES	727-000	257	231.78
12/22/2020	GENF	72217	FIRST BANKCARD	CC ADMIN - AMAZON PRIME DEC 2020	727-000	295	12.99
12/22/2020	GENF	72217	FIRST BANKCARD	COVID 19 EXPENSES	755-000	295	100.69
12/22/2020	GENF	72217	FIRST BANKCARD	CC ADMIN - COFFEE SUPPLIES	787-000	295	27.98
12/22/2020	GENF	72217	FIRST BANKCARD	CC ADMIN - INTEREST	787-000	295	8.97
				CHECK GENF 72217 TOTAL FOR FUND 101:			892.41
12/22/2020	GENF	72218	FLIER BROTHERS INDEPENDENT	PARK MAINTENANCE	935-000	756	8,300.00
12/22/2020	GENF	72219	FOX FORD MAZDA	ENGINE ELEC DIAGNOSIS 2019 F350	863-000	265	500.72
12/22/2020	GENF	72219	FOX FORD MAZDA	OIL CHANGE 2001 F450	863-000	265	71.59
				CHECK GENF 72219 TOTAL FOR FUND 101:			572.31

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12/22/2020	GENF	72223*#	INTERURBAN TRANSIT PARTNERSHIP	BUS SERVICE 33RD & 36TH	861-000	652	2,376.83
12/22/2020	GENF	72223	INTERURBAN TRANSIT PARTNERSHIP	BUS SERVICE 28TH ST	861-100	652	15,767.50
				CHECK GENF 72223 TOTAL FOR FUND 101:			18,144.33
12/22/2020	GENF	72224	KENT COUNTY BUREAU OF EQUALIZATION	ASSESSING PRINTING AND PUBLISHING	900-000	257	162.50
12/22/2020	GENF	72247	MID-MICHIGAN ASSOCIATES OF ASSESSIN	ASSESSING MEMBERSHIPS AND DUES- HOLLY B.	723-000	257	20.00
12/22/2020	GENF	72247	MID-MICHIGAN ASSOCIATES OF ASSESSIN	ASSESSING MEMBERSHIPS AND DUES- J GENTER	723-000	257	20.00
				CHECK GENF 72247 TOTAL FOR FUND 101:			40.00
12/22/2020	GENF	72248*#	PROGRESSIVE AE	CAPITAL OUTLAY - BLDGIMP	975-000	901	151,980.13
12/22/2020	GENF	72249	PSI PRINTING SYSTEMS INC	ELECTION SUPPLIES	756-000	262	42.50
12/22/2020	GENF	72254	SLATER, SUE	CLERK MILEAGE	860-000	215	4.48
12/22/2020	GENF	72254	SLATER, SUE	CLERK CELL PHONE	925-000	215	50.00
				CHECK GENF 72254 TOTAL FOR FUND 101:			54.48
12/22/2020	GENF	72255	SWAYZE, BENJAMIN	SUPERVISOR MILEAGE	860-000	171	517.50
12/23/2020	GENF	49(E)*	WEST MICHIGAN HEALTH INSURANCE POOL	HEALTH INSURANCE BENEFITS	719-000	850	16,194.72
12/23/2020	GENF	6531(A)*#	CONSUMERS ENERGY	100000285161 2865 THORNHILLS AVE SE	921-000	265	1,341.00
12/23/2020	GENF	6533(A)	NAPA AUTO PARTS	BRAKE PADS	863-000	265	285.47
12/23/2020	GENF	6533(A)	NAPA AUTO PARTS	BATTERY AND OIL	863-000	265	170.02
12/23/2020	GENF	6533(A)	NAPA AUTO PARTS	BATTERY - Z MASTER 7000	863-000	265	126.99
				CHECK GENF 6533(A) TOTAL FOR FUND 101:			582.48
12/30/2020	GENF	72262	BARTLETT TREE EXPERTS	PARK MAINTENANCE	935-000	756	4,468.00
12/30/2020	GENF	72263	BEST-ONE FLEET SERVICE-BYRON CENTER	JD4720 VEHICLE. INSTALL, DISPOSAL	863-000	265	1,202.24
12/30/2020	GENF	72264	CARLETON EQUIPMENT	VEHICLE MAINT	863-000	265	104.68
12/30/2020	GENF	72265*#	CONSUMERS ENERGY	RELOCATION OF POLE	967-000	721	4,712.50
12/30/2020	GENF	72266*#	COMCAST	COMPLEX PHONES	924-000	265	229.90
12/30/2020	GENF	72269*#	FIRST BANKCARD	CC MACDONALD - APPLE.COM/BILL	924-000	265	0.99
12/30/2020	GENF	72269	FIRST BANKCARD	SERVICE CONTRACTS - ACROBAT PRO DC	939-000	295	190.67
				CHECK GENF 72269 TOTAL FOR FUND 101:			191.66
12/30/2020	GENF	72271*#	THE HOME DEPOT CREDIT SERVICES	LATE FEE HOME DEPOT PATHWAY	787-000	295	35.00
12/30/2020	GENF	72288*#	MUTUAL OF OMAHA INSURANCE	DEPENDENT LIFE W/H (C) GF	231-220	000	11.70
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	DEPENDENT LIFE W/H (C) FIRE	231-220	000	19.50
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	DEPENDENT LIFE W/H (C) BLDG	231-220	000	3.90
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	ADDITIONAL LIFE W/H (D) GF	231-221	000	17.00
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	ADDITIONAL LIFE W/H (D) FIRE	231-221	000	42.00
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	ADDITIONAL LIFE W/H (E) GF	231-221	000	136.40
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	ADDITIONAL LIFE W/H (E) FIR	231-221	000	273.30

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12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	ADDITIONAL LIFE W/H (E) BLDG	231-221	000	67.50
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	LIFE STD BENEFITS (G)	720-000	850	273.37
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	LIFE LTD BENEFITS (F)	720-000	850	677.50
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	LIFE INSURANCE BENEFITS (A)	720-000	850	272.25
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	LIFE AD&D BENEFITS (B)	720-000	850	41.38
				CHECK GENF 72288 TOTAL FOR FUND 101:			1,835.80
12/30/2020	GENF	72291*#	PITNEY BOWES RESERVE ACCOUNT	POSTAGE - GENERAL	730-000	295	2,700.00
12/30/2020	GENF	72292	ROOKS LANDSCAPING INC	CONTRACTED SERVICES	818-000	447	10,000.00
12/30/2020	GENF	72293	SOURINE, OXANA	REIMBURSE 72 MILES - O.SOURINE	860-000	253	41.40
12/30/2020	GENF	72298*#	WINDSTREAM	CELL PHONES/DATA	924-100	295	207.52
12/30/2020	GENF	72298	WINDSTREAM	PARK PHONES	924-000	756	138.34
				CHECK GENF 72298 TOTAL FOR FUND 101:			345.86
12/31/2020	GENF	6542(A)*#	CONSUMERS ENERGY	100012052419 6569 THORNBROOK ST SE	921-000	265	28.85
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	103023462197 2867 THORNHILLS AVE SE	921-000	265	31.59
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100012548051 5601 WHITNEYVILLE AVE SE	921-000	276	28.85
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	1000136591347 7200 30TH ST SE	921-000	276	32.77
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100011965082 2870 JACK SMITH AVE SE	926-000	448	113.73
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100014570673 3804 THORNAPPLE RIVE	921-000	756	82.52
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100014570889 3820 THORNAPPLE RIVER D	921-000	756	70.64
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100012592265 2900 THORNAPPLE RIVER DR	921-000	756	428.30
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100012592398 2839 THORNAPPLE RIVER DR	921-000	803	86.56
				CHECK GENF 6542(A) TOTAL FOR FUND 101:			903.81
12/31/2020	GENF	6543(A)*	DELTA DENTAL	DENTAL INSURANCE BENEFITS	721-000	850	1,832.55
12/31/2020	GENF	6546(A)	INDUSTRIAL CHEMICAL LABS	CEMETERY MAINT	932-000	276	357.51
12/31/2020	GENF	6553(A)	THORNAPPLE RIVER NURSERY, INC.	4,207 TAGS SOLD	818-000	447	13,672.75
				Total for fund 101 GENERAL FUND			462,779.80
FUND 151 - CEMETERY TRUST FUND							
12/03/2020	GENF	72122	RON KEMPKER	MISCELLANEOUS	787-000	276	84.48
				Total for fund 151 CEMETERY TRUST FUND			84.48
FUND 206 - FIRE FUND							
12/03/2020	GENF	72107*#	COMCAST	COMMUNICATIONS	850-000	336	173.14
12/03/2020	GENF	72108*#	COMCAST	COMMUNICATIONS	850-000	336	118.41
12/03/2020	GENF	72109	COMCAST	COMMUNICATIONS	850-000	336	42.50
12/03/2020	GENF	72112*	FIDELITY SECURITY LIFE INS	VISION INSURANCE BENEFITS	718-000	850	216.14
12/03/2020	GENF	72119	J&B MEDICAL SUPPLY	FIRE SUPPLEMENTAL EQUIPMENT	958-000	336	11.25
12/03/2020	GENF	72130	PROFORMA	FIRE SUPPLEMENTAL EQUIPMENT- COVID MASKS	958-000	336	670.45
12/03/2020	GENF	72132*#	REPUBLIC SERVICES	FIRE STATION MAINT REPUBLIC	936-002	336	265.46

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12/03/2020	GENF	72136*#	SUPERIOR PEST CONTROL INC	FIRE STATION MAINT	936-000	336	50.00
12/03/2020	GENF	72136	SUPERIOR PEST CONTROL INC	FIRE STATION MAINT/BUTTRICK	936-002	336	50.00
				CHECK GENF 72136 TOTAL FOR FUND 206:			100.00
12/03/2020	GENF	72138	TECH MASTER INC	VEHICLE MAINT	863-000	336	714.27
12/03/2020	GENF	72138	TECH MASTER INC	VEHICLE MAINT	863-000	336	518.86
				CHECK GENF 72138 TOTAL FOR FUND 206:			1,233.13
12/03/2020	GENF	72141*#	WINDSTREAM	COMMUNICATIONS	850-000	336	413.61
12/04/2020	GENF	6469(A)*#	CONSUMERS ENERGY	100012762959 2990 BUTTRICK AVE SE	928-000	336	748.15
12/04/2020	GENF	6476(A)	NYE UNIFORM COMPANY	FIRE UNIFORMS	768-000	336	89.50
12/04/2020	GENF	6491(A)	VALLEY CITY LINEN INC	FIRE STATION MAINT-RUG & TOWEL CLEANING	936-000	336	29.95
12/04/2020	GENF	6491(A)	VALLEY CITY LINEN INC	FIRE STATION MAINT-RUG & TOWEL CLEANING	936-000	336	29.95
				CHECK GENF 6491(A) TOTAL FOR FUND 206:			59.90
12/10/2020	GENF	72144	AGILE SAFETY	COVID MASKS - N95 DISPOSABLE RESPIRATOR	958-000	336	150.00
12/10/2020	GENF	72149	CASCADE PRINTING & GRAPHICS	RIVER MAP BOOK LAMINATED AND BOUND	901-000	336	127.49
12/10/2020	GENF	72152	COMCAST	ACCT# 8529112730015086 DEC-JAN SERVICE	850-000	336	94.90
12/10/2020	GENF	72154*#	DTE ENERGY	UTILITIES	928-000	336	368.30
12/10/2020	GENF	72157*#	GRAND RAPIDS CITY TREASURER	FIRE/WATER BUTTRICK	928-000	336	120.57
12/10/2020	GENF	72157	GRAND RAPIDS CITY TREASURER	FIRE PROTECTION BUTTRICK	928-000	336	57.20
12/10/2020	GENF	72157	GRAND RAPIDS CITY TREASURER	IRRIGATION BUTTRICK	928-000	336	491.45
				CHECK GENF 72157 TOTAL FOR FUND 206:			669.22
12/10/2020	GENF	72173*#	SUPERIOR PEST CONTROL INC	FIRE STATION MAINT	936-000	336	50.00
12/10/2020	GENF	72173	SUPERIOR PEST CONTROL INC	FIRE STATION MAINT/BUTTRICK	936-002	336	50.00
				CHECK GENF 72173 TOTAL FOR FUND 206:			100.00
12/10/2020	GENF	72178*#	VERIZON WIRELESS	FIRE PHONES	924-000	336	725.85
12/11/2020	GENF	6507(A)	VALLEY CITY LINEN INC	FIRE STATION MAINT-RUG & TOWEL CLEANING	936-000	336	29.95
12/11/2020	GENF	6508(A)	WEST INVESTIGATIONS INC	FIRE FIGHTER HIRING	803-000	336	60.00
12/11/2020	GENF	6508(A)	WEST INVESTIGATIONS INC	FIRE FIGHTER HIRING	803-000	336	60.00
				CHECK GENF 6508(A) TOTAL FOR FUND 206:			120.00
12/17/2020	GENF	72190*#	CINTAS	FIRE STATION MAINT	936-000	336	38.82
12/17/2020	GENF	72192*#	THE HOME DEPOT CREDIT SERVICES	LASER MEASURE	981-000	336	99.00
12/17/2020	GENF	72198	CASH - FIRE DEPT	FIRE PUBLIC RELATIONS-HEM TURN-OUT PANTS	887-000	336	60.00
12/17/2020	GENF	72198	CASH - FIRE DEPT	FIRE EQUIPMENT MAINT-FLEX CONNECT SHUTOF	938-000	336	7.72
				CHECK GENF 72198 TOTAL FOR FUND 206:			67.72
12/17/2020	GENF	72207*#	VERIZON WIRELESS	COMMUNICATIONS- IPADS	850-000	336	20.04
12/17/2020	GENF	72207	VERIZON WIRELESS	COMMUNICATIONS- MODEMS	850-000	336	213.32
				CHECK GENF 72207 TOTAL FOR FUND 206:			233.36

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12/18/2020	GENF	6510(A)	CASCADE AUTOMOTIVE SERVICE	VEHICLE MAINT	863-000	336	79.43
12/18/2020	GENF	6515(A)*#	KINGSLAND'S ACE HARDWARE	RUST-O GLS SAIL BLUE	745-000	336	13.47
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	RED PREMIX GAS/OIL	745-000	336	14.38
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	BOLTS NUTS LOCK WASHERS	752-000	336	5.62
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	THREADLOCKER BOLTS	863-000	336	14.01
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	RECEIVER LOCK	863-000	336	15.29
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	PEAK MINI LAMP	863-000	336	2.69
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	GALV TRASH CAN	936-000	336	44.98
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	BOLTS NUTS WASHERS	936-000	336	4.59
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	SANDPAPER PRIMER SPRAY	936-000	336	6.82
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	DIGITAL TIMER OUTLETS EXT CORD MICRO LED	936-002	336	42.36
				CHECK GENF 6515(A) TOTAL FOR FUND 206:			164.21
12/18/2020	GENF	6516(A)	NYE UNIFORM COMPANY	FIRE UNIFORMS - T.STEVENSON	768-000	336	199.97
12/18/2020	GENF	6516(A)	NYE UNIFORM COMPANY	FIRE UNIFORMS	768-000	336	139.97
12/18/2020	GENF	6516(A)	NYE UNIFORM COMPANY	FIRE UNIFORMS	768-000	336	79.99
				CHECK GENF 6516(A) TOTAL FOR FUND 206:			419.93
12/18/2020	GENF	6517(A)	OVERHEAD DOOR CO OF GR, INC	FIRE STATION MAINT	936-000	336	174.92
12/18/2020	GENF	6528(A)	VALLEY CITY LINEN INC	FIRE STATION MAINT-RUG & TOWEL CLEANING	936-000	336	29.95
12/18/2020	GENF	6528(A)	VALLEY CITY LINEN INC	FIRE STATION MAINT-RUG & TOWEL CLEANING	936-000	336	29.95
				CHECK GENF 6528(A) TOTAL FOR FUND 206:			59.90
12/18/2020	GENF	6529(A)*#	WEX BANK	FIRE FUELS	745-000	336	964.95
12/22/2020	GENF	72216*#	FIRST BANKCARD	CC MAGERS - MFIS CARD REPLACEMENT	723-000	336	5.00
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - MFIS MBRSHIP - C.FORZLEY	723-000	336	30.00
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - HAND SOAP	738-000	336	14.80
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - COFFEE SUPPLIES	787-000	336	162.00
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - GROCERY	787-000	336	60.45
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - STANDARD PRO MONTHLY	850-000	336	15.89
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - CREW PRO MONTHLY	850-000	336	29.99
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - RECURRING CAR WASH DEC 2020	863-000	336	19.99
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - RECURRING CAR WASH DEC 2020	863-000	336	19.99
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - CLEAR EPOXY COATING	936-000	336	374.00
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - CLEAR EPOXY COATING	936-000	336	197.00
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - SISTEMA	958-000	336	23.46
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - FACE MASKS & OXIMETER	958-000	336	154.73
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - IPHONE SCREEN PROTECTOR CASE	981-000	336	57.22
12/22/2020	GENF	72216	FIRST BANKCARD	CC MAGERS - ZOOM WEB CAMS	981-000	336	359.97
12/22/2020	GENF	72216	FIRST BANKCARD	OFFICE EQUIPMENT	981-000	336	127.57
				CHECK GENF 72216 TOTAL FOR FUND 206:			1,652.06
12/22/2020	GENF	72217*#	FIRST BANKCARD	CC ADMIN - FIRE METAL POLISH	738-000	336	28.15
12/22/2020	GENF	72217	FIRST BANKCARD	CC ADMIN - FIRE FACE MASKS	787-000	336	219.98
12/22/2020	GENF	72217	FIRST BANKCARD	CC ADMIN - FIRE KNIFE BLOCK SET	787-000	336	66.98
12/22/2020	GENF	72217	FIRST BANKCARD	CC ADMIN - FIRE PAPER TOWEL ROLLS	787-000	336	158.84
12/22/2020	GENF	72217	FIRST BANKCARD	CC ADMIN - FIRE BATHROOM CLEANER	787-000	336	11.19
12/22/2020	GENF	72217	FIRST BANKCARD	CC ADMIN - FIRE BOWL CLEANER	787-000	336	89.98
12/22/2020	GENF	72217	FIRST BANKCARD	CC ADMIN - FIRE GLASS CLEANER	787-000	336	33.20
				CHECK GENF 72217 TOTAL FOR FUND 206:			608.32
12/22/2020	GENF	72220	GREAT AMERICA FINANCIAL SERVICE	FIRE COPIER/LEASE/SERVICE	939-000	336	266.78
12/22/2020	GENF	72253	SHMG OCCUPATIONAL HEALTH	FIRE FIGHTER HIRING	803-000	336	395.63
12/22/2020	GENF	72259	VERIZON WIRELESS	COMMUNICATIONS	850-000	336	320.10

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12/23/2020	GENF	49(E)*	WEST MICHIGAN HEALTH INSURANCE POOL	HEALTH INSURANCE BENEFITS	719-000	850	23,338.02
12/23/2020	GENF	6532(A)	EMERGENCY REPORTING	ANNUAL SUBSCRIPTION	802-000	336	6,273.25
12/30/2020	GENF	72266*#	COMCAST	COMMUNICATIONS	850-000	336	176.08
12/30/2020	GENF	72267	COMCAST	COMMUNICATIONS	850-000	336	94.90
12/30/2020	GENF	72268	COMCAST	COMAST JAN 2021 SERVICE	850-000	336	34.57
12/30/2020	GENF	72270	GUARDIAN LEATHER WORK	1ST INSTALLMENT 2020 BUDGET	937-000	336	2,000.00
12/30/2020	GENF	72271*#	THE HOME DEPOT CREDIT SERVICES	FIRE STATION DISHWASHER	936-000	336	934.89
12/30/2020	GENF	72273	J&B MEDICAL SUPPLY	FIRE SUPPLEMENTAL EQUIPMENT	958-000	336	64.61
12/30/2020	GENF	72274	KADISH, MICHAEL	HOLIDAY MEAL STIPEND - M.KADISH	787-000	336	75.00
12/30/2020	GENF	72275	KNOWLES, JEFF	FIRE UNIFORMS - J.KNOWLES	768-000	336	74.45
12/30/2020	GENF	72277	LINTEMUTH, DAVID	REIMBURSE POSTAGE - D.LINTEMUTH	958-000	336	62.63
12/30/2020	GENF	72278	MED-1 LEONARD	FIRE FIGHTER HIRING- NICHOLAS RODRIGUEZ	803-000	336	543.00
12/30/2020	GENF	72288*#	MUTUAL OF OMAHA INSURANCE	LIFE AD&D BENEFITS (B)	720-000	850	52.26
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	LIFE INSURANCE BENEFITS (A)	720-000	850	343.75
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	LIFE STD BENEFITS (G)	720-000	850	347.03
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	LIFE LTD BENEFITS (F)	720-000	850	852.47
				CHECK GENF 72288 TOTAL FOR FUND 206:			<u>1,595.51</u>
12/30/2020	GENF	72289	PHOENIX SAFETY OUTFITTERS	FIRE PROTECTIVE CLOTHING	959-000	336	517.41
12/30/2020	GENF	72290	REPUBLIC SERVICES	FIRE STATION MAINT REPUBLIC	936-002	336	55.71
12/30/2020	GENF	72291*#	PITNEY BOWES RESERVE ACCOUNT	FIRE POSTAGE & MACHINE LEASE	941-000	336	150.00
12/30/2020	GENF	72294	STATE OF MICHIGAN	REGISTRATION FOR INSPECTOR - C.FORZLEY	723-000	336	100.00
12/30/2020	GENF	72298*#	WINDSTREAM	COMMUNICATIONS	850-000	336	415.03
12/31/2020	GENF	6542(A)*#	CONSUMERS ENERGY	100012762959 2990 BUTTRICK AVE SE	928-000	336	775.63
12/31/2020	GENF	6543(A)*	DELTA DENTAL	DENTAL INSURANCE BENEFITS	721-000	850	2,252.43
12/31/2020	GENF	6545(A)	FUEL MANAGEMENT SYSTEM	FIRE FUELS	745-000	336	49.78
12/31/2020	GENF	6545(A)	FUEL MANAGEMENT SYSTEM	FIRE FUELS	745-000	336	57.76
12/31/2020	GENF	6545(A)	FUEL MANAGEMENT SYSTEM	FIRE FUELS	745-000	336	117.58
12/31/2020	GENF	6545(A)	FUEL MANAGEMENT SYSTEM	FIRE FUELS	745-000	336	34.69
12/31/2020	GENF	6545(A)	FUEL MANAGEMENT SYSTEM	FIRE FUELS	745-000	336	<u>130.72</u>

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CHECK GENF 6545(A) TOTAL FOR FUND 206:							390.53
12/31/2020	GENF	6548(A)	NYE UNIFORM COMPANY	FIRE UNIFORMS - L.MCCARTHY	768-000	336	40.50
12/31/2020	GENF	6558(A)	VALLEY CITY LINEN INC	FIRE STATION MAINT-RUG & TOWEL CLEANING	936-000	336	29.95
12/31/2020	GENF	6558(A)	VALLEY CITY LINEN INC	FIRE STATION MAINT-RUG & TOWEL CLEANING	936-000	336	29.95
CHECK GENF 6558(A) TOTAL FOR FUND 206:							59.90
Total for fund 206 FIRE FUND							52,096.53
FUND 207 - POLICE FUND							
12/11/2020	GENF	6496(A)	KENT COUNTY TREASURER	SHERIFF PROTECTION	801-000	301	50,043.12
Total for fund 207 POLICE FUND							50,043.12
FUND 209- OPEN SPACE FUND							
12/04/2020	GENF	6469(A)*#	CONSUMERS ENERGY	100061096465 6803 BURTON ST SE	921-000	751	28.85
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100041772151 6803 BURTON ST SE	921-000	751	164.30
CHECK GENF 6469(A) TOTAL FOR FUND 209:							193.15
12/10/2020	GENF	72154*#	DTE ENERGY	HEATING/UTILITY	923-000	751	72.60
12/10/2020	GENF	72157*#	GRAND RAPIDS CITY TREASURER	6803 BURTON PK WATER	927-000	751	147.00
12/10/2020	GENF	72157	GRAND RAPIDS CITY TREASURER	6805 BURTON PK WATER	927-000	751	88.22
CHECK GENF 72157 TOTAL FOR FUND 209:							235.22
12/18/2020	GENF	6514(A)	KERKSTRA PORTABLE RESTROOM SERVICE	PARK MAINTENANCE	935-000	751	125.00
12/31/2020	GENF	6542(A)*#	CONSUMERS ENERGY	100041772151 6803 BURTON ST SE	921-000	751	266.76
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100061096465 6803 BURTON ST SE	921-000	751	28.85
CHECK GENF 6542(A) TOTAL FOR FUND 209:							295.61
Total for fund 209 CCT OPEN SPACE							921.58
FUND 211 - DAM FUND							
12/22/2020	GENF	72215	FIRST AMERICAN TITLE INSURANCE CO.	EXPENSES/DAM MAJOR REPAIR	980-000	901	274,573.60
12/28/2020	GENF	72261	FIRST AMERICAN TITLE INSURANCE CO.	EXPENSES/DAM MAJOR REPAIR	980-000	901	420.00
Total for fund 211 DAM MAJOR REPAIR FUND							274,993.60
FUND 216- PATHWAYS FUND							
12/04/2020	GENF	6472(A)*#	FISHBECK THOMPSON CARR & HUBER	ENGINEERING	821-100	758	15,829.80
12/04/2020	GENF	6472(A)	FISHBECK THOMPSON CARR & HUBER	ENGINEERING	821-100	758	38,457.70
12/04/2020	GENF	6472(A)	FISHBECK THOMPSON CARR & HUBER	MAINT & REPAIR	931-000	758	983.32
CHECK GENF 6472(A) TOTAL FOR FUND 216:							55,270.82
12/18/2020	GENF	6509(A)*#	BEHRENS LIMITED LLC	2 PLY, 800 PER CASE, 90 CASES, PATHS	728-000	758	5,478.59
12/18/2020	GENF	6515(A)*#	KINGSLAND'S ACE HARDWARE	LAG SCREW FLAT WASHERS	931-000	758	29.86
12/22/2020	GENF	72225	KEY ELECTRIC SERVICE, INC.	CAPITAL OUTLAY - FFE	970-000	901	941.30
12/30/2020	GENF	72269*#	FIRST BANKCARD	NORTHERN TOOL PURCHASE	931-000	758	1,069.47
12/30/2020	GENF	72271*#	THE HOME DEPOT CREDIT SERVICES	FENCING	931-000	758	3,336.02
12/30/2020	GENF	72272	THE HOME DEPOT CREDIT SERVICES	FENCING	931-000	758	2,716.25

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12/31/2020	GENF	6547(A)	KAMMINGA AND ROODVOETS INC	ENGINEERING	821-100	758	512,546.16
				Total for fund 216 PATHWAYS FUND			581,388.47
FUND 246 - IRF FUND							
12/04/2020	GENF	6472(A)*#	FISHBECK THOMPSON CARR & HUBER	CAPITAL OUTLAY - LANDIMP	974-000	901	4,466.50
12/04/2020	GENF	6472(A)	FISHBECK THOMPSON CARR & HUBER	CAPITAL OUTLAY - LANDIMP	974-000	901	3,413.54
				CHECK GENF 6472(A) TOTAL FOR FUND 246:			7,880.04
				Total for fund 246 IRF			7,880.04
FUND 248 - DDA FUND							
12/03/2020	GENF	72106*#	CASCADE CHARTER TOWNSHIP	WINTER 2020 TAXES- TUFFY DDA	787-000	170	3,063.94
12/04/2020	GENF	6469(A)*#	CONSUMERS ENERGY	100012017115 6753 OLD 28TH ST SE	921-000	170	261.44
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100012017305 6610 28TH ST SE	921-000	170	200.94
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100011901541 6800 CASCADE RD SE	921-000	170	370.75
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100011901814 6811 CASCADE RD SE	921-000	170	171.06
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100054379084 5196 28TH ST SE	921-000	170	266.59
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100054393572 5434 28TH ST SE	921-000	170	96.25
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100012213862 6658 28TH ST	921-000	170	29.25
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100063460503 5770 FOREMOST DR SE	921-000	170	147.14
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100066874924 2990 LUCERNE DR SE	921-000	170	224.19
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100041059393 6282 28TH ST SE	921-000	170	150.07
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100088376080 3001 ORCHARD VISTA DR	921-000	170	71.29
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100041058650 6116 28TH ST SE	921-000	170	106.72
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100041059278 5905 28TH ST SE	921-000	170	116.48
12/04/2020	GENF	6469(A)	CONSUMERS ENERGY	100041081355 5613 28TH ST SE	921-000	170	95.87
				CHECK GENF 6469(A) TOTAL FOR FUND 248:			2,308.04
12/04/2020	GENF	6472(A)*#	FISHBECK THOMPSON CARR & HUBER	ENGINEERING	821-000	170	9,358.00
12/04/2020	GENF	6472(A)	FISHBECK THOMPSON CARR & HUBER	ENGINEERING	821-000	170	10,305.50
				CHECK GENF 6472(A) TOTAL FOR FUND 248:			19,663.50
12/10/2020	GENF	72157*#	GRAND RAPIDS CITY TREASURER	DDA WATER	927-000	170	557.76
12/10/2020	GENF	72167*#	MUNIWEB	WEBSITE HOSTING	787-000	170	135.00
12/10/2020	GENF	72178*#	VERIZON WIRELESS	CELL PHONES	924-100	170	97.42
12/11/2020	GENF	6495(A)*#	FISHBECK THOMPSON CARR & HUBER	PROJ 201229 BROWNFIELD CONSULTING BT1	967-000	170	143.58
12/17/2020	GENF	72180	ANLAAN CORPORATION	CENTENNIAL PARK SIDEWALKS AND MEDIAN	821-000	170	33,570.43
12/17/2020	GENF	72207*#	VERIZON WIRELESS	DDA IPAD	924-100	170	29.43
12/18/2020	GENF	6515(A)*#	KINGSLAND'S ACE HARDWARE	ELEC TAPE	931-000	170	5.38
12/18/2020	GENF	6515(A)	KINGSLAND'S ACE HARDWARE	REGAL EXT MOORGARD PASTL WHT	931-000	170	19.79
				CHECK GENF 6515(A) TOTAL FOR FUND 248:			25.17
12/22/2020	GENF	72216*#	FIRST BANKCARD	CC KORHORN - FALL ECON DEV TOOLOBOX	724-000	170	90.00
12/22/2020	GENF	72223*#	INTERURBAN TRANSIT PARTNERSHIP	BUS SERVICE 28TH ST	861-100	170	15,767.50
12/23/2020	GENF	6531(A)*#	CONSUMERS ENERGY	100066874924 2990 LUCERNE DR SE	921-000	170	236.22
12/30/2020	GENF	72265*#	CONSUMERS ENERGY	RELOCATION OF POLE	967-000	170	4,712.50

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12/30/2020	GENF	72276	LAWNS OF DISTINCTION	REPAIR OF GATHERING PLACE WALL	931-000	170	4,700.00
12/31/2020	GENF	6542(A)*#	CONSUMERS ENERGY	100063460503 5770 FOREMOST DR SE	921-000	170	156.69
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100054379084 5196 28TH ST SE	921-000	170	285.83
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100054393572 5434 28TH ST SE	921-000	170	101.72
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100041059393 6282 28TH ST SE	921-000	170	158.49
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100088376080 3001 ORCHARD VISTA DR	921-000	170	76.07
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100041058650 6116 28TH ST SE	921-000	170	116.94
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100041059278 5905 28TH ST SE	921-000	170	124.44
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100041081355 5613 28TH ST SE	921-000	170	102.79
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100012017115 6753 OLD 28TH ST SE	921-000	170	232.96
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100012017305 6610 28TH ST SE	921-000	170	206.31
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100012213862 6658 28TH ST	921-000	170	29.95
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100011901541 6800 CASCADE RD SE	921-000	170	377.89
12/31/2020	GENF	6542(A)	CONSUMERS ENERGY	100011901814 6811 CASCADE RD SE	921-000	170	160.48
				CHECK GENF 6542(A) TOTAL FOR FUND 248:			<u>2,130.56</u>
				Total for fund 248 DDA			87,231.05
FUND 249 - BUILDING FUND							
12/03/2020	GENF	72095	ADA TOWNSHIP	PERMITS DUE TO ADA TWP	964-400	964	3,120.40
12/03/2020	GENF	72097	ARMOCK MECHANICAL	ADA TWP MECHANICAL PERMITS	607-524	000	535.00
12/03/2020	GENF	72099	BENOIT, BILL	MILEAGE - BENOIT	860-000	371	336.95
12/03/2020	GENF	72100	BIEGALLE, JEFFREY	MILEAGE- BIEGALLE,J	860-000	371	263.93
12/03/2020	GENF	72103	CASCADE CHARTER TOWNSHIP	PERMITS DUE CASCADE TWP	964-800	964	6,908.40
12/03/2020	GENF	72105	CASCADE CHARTER TOWNSHIP	DUE TO I.R.F.- S&W CONNECTIONS	237-000	000	13,486.00
12/03/2020	GENF	72105	CASCADE CHARTER TOWNSHIP	DUE TO I.R.F.- S&W CONNECTIONS	237-000	000	<u>2,200.00</u>
				CHECK GENF 72105 TOTAL FOR FUND 249:			15,686.00
12/03/2020	GENF	72108*#	COMCAST	PHONES	924-000	371	55.26
12/03/2020	GENF	72110	KEN DAVIS	MILEAGE DAVIS	860-000	371	252.43
12/03/2020	GENF	72112*	FIDELITY SECURITY LIFE INS	VISION INSURANCE BENEFITS	718-000	850	128.44
12/03/2020	GENF	72113	TOTAL FIRE & SECURITY	ADA TWP ELECTRICAL PERMITS	607-523	000	125.00
12/03/2020	GENF	72114	GRAND RAPIDS CHARTER TOWNSHIP	PERMITS DUE TO GR TWP	964-300	964	35,467.57
12/03/2020	GENF	72115	DANIEL L HEYER	MILEAGE HEYER	860-000	371	200.10
12/03/2020	GENF	72116	HUYSER, DANIEL A.	MILEAGE- HUYSER	860-000	371	161.58
12/03/2020	GENF	72125	VINCENT MILITO	DEPARTMENT UNIFORMS	768-000	371	40.00
12/03/2020	GENF	72125	VINCENT MILITO	MILEAGE MILITO-	860-000	371	<u>221.38</u>
				CHECK GENF 72125 TOTAL FOR FUND 249:			261.38
12/03/2020	GENF	72129	DOUGLAS P. POOLMAN	MILEAGE- D. POOLMAN	860-000	371	64.98

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12/03/2020	GENF	72131	REITSMA, RON	MILEAGE - R.REITSMA	860-000	371	218.50
12/03/2020	GENF	72133	ROWLADER, DENNIS	MILEAGE- D. ROWLADER	860-000	371	136.85
12/03/2020	GENF	72134	RON SABIN	DEPARTMENT UNIFORMS-SABIN	768-000	371	153.75
12/03/2020	GENF	72134	RON SABIN	MILEAGE SABIN	860-000	371	290.38
				CHECK GENF 72134 TOTAL FOR FUND 249:			<u>444.13</u>
12/03/2020	GENF	72135	SMART BUSINESS SOURCE	OFFICE SUPPLIES	727-000	371	115.68
12/03/2020	GENF	72140	WILSON, BRIAN	MILEAGE- B. WILSON	860-000	371	105.80
12/03/2020	GENF	72141*#	WINDSTREAM	PHONES	924-000	371	68.94
12/04/2020	GENF	6471(A)	EAST GRAND RAPIDS/CITY OF	PERMITS DUE TO EAST GR	964-500	964	1,984.80
12/04/2020	GENF	6475(A)	LOWELL TOWNSHIP	PERMITS DUE TO LOWELL TWP	964-100	964	1,428.60
12/04/2020	GENF	6478(A)	PLAINFIELD CHARTER TOWNSHIP	PERMITS DUE PLAINFIELD	964-600	964	3,739.35
12/04/2020	GENF	6492(A)	VERGENNES TOWNSHIP	PERMITS DUE TO VERGENNES TWP	964-200	964	412.40
12/10/2020	GENF	72146	BENOIT, BILL	REIMBURSE 530 MILES - B.BENOIT	860-000	371	304.75
12/10/2020	GENF	72147	BIEGALLE, JEFFREY	REIMBURSE 412 MILES - J. BIEGALLE	860-000	371	236.90
12/10/2020	GENF	72151	CASCADE CHARTER TOWNSHIP	S/W CONNECTION 2747 CASCADE SPRINGS	237-000	000	1,100.00
12/10/2020	GENF	72151	CASCADE CHARTER TOWNSHIP	S/W CONNECTION 1404 MARSMAN	237-000	000	1,100.00
				CHECK GENF 72151 TOTAL FOR FUND 249:			<u>2,200.00</u>
12/10/2020	GENF	72153	KEN DAVIS	REIMBURSE 378 MILES- K. DAVIS	860-000	371	285.35
12/10/2020	GENF	72158	DANIEL L HEYER	DEPARTMENT UNIFORMS - D.HEYER	768-000	371	300.00
12/10/2020	GENF	72158	DANIEL L HEYER	REIMBURSE 331 MILES - D.HEYER	860-000	371	190.33
				CHECK GENF 72158 TOTAL FOR FUND 249:			<u>490.33</u>
12/10/2020	GENF	72159	HUYSER, DANIEL A.	REIMBURSE 411 MILES- D. HUYSER	860-000	371	236.33
12/10/2020	GENF	72162	VINCENT MILITO	DEPARTMENT UNIFORMS - V.MILITO	768-000	371	60.00
12/10/2020	GENF	72162	VINCENT MILITO	REIMBURSE 392 MILES - V. MILITO	860-000	371	225.40
				CHECK GENF 72162 TOTAL FOR FUND 249:			<u>285.40</u>
12/10/2020	GENF	72166	MICHIGAN MUNICIPAL LEAGUE	CLASSIFIED AD- MECHANICAL INSPECTOR	787-000	371	103.68
12/10/2020	GENF	72166	MICHIGAN MUNICIPAL LEAGUE	CLASSIFIED AD- ELECTRICAL INSPECTOR	787-000	371	106.32
				CHECK GENF 72166 TOTAL FOR FUND 249:			<u>210.00</u>
12/10/2020	GENF	72169	R-VALUE CONCRETE STRUCTURES LLC	DUE TO IRF SW CONNECTIONS	237-000	000	2,200.00
12/10/2020	GENF	72170	ROWLADER, DENNIS	WAGES- FULL TIME	702-000	371	1,556.02
12/10/2020	GENF	72170	ROWLADER, DENNIS	DEPARTMENT UNIFORMS - D.ROWLADER	768-000	371	154.17
12/10/2020	GENF	72170	ROWLADER, DENNIS	REIMBURSE 170 MILES - D.ROWLADER	860-000	371	97.75
				CHECK GENF 72170 TOTAL FOR FUND 249:			<u>1,807.94</u>

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12/10/2020	GENF	72171	RON SABIN	REIMBURSE 535 MILES - R. SABIN	860-000	371	307.63
12/10/2020	GENF	72178*##	VERIZON WIRELESS	CELL PHONES & EQUIPMENT	924-100	371	1,226.17
12/10/2020	GENF	72179	BRIAN WILSON	REIMBURSE 117 MILES- B. WILSON	860-000	371	67.28
12/11/2020	GENF	6493(A)	3040 CHARLEVOIX II, LLC	JAN. 2021 LEASE 3040 CHARLEVOIX	940-000	371	5,228.01
12/11/2020	GENF	6497(A)*##	KONICA MINOLTA BUSINESS SOLUTIONS	SERVICE CONTRACTS	939-000	371	42.59
12/17/2020	GENF	72188	CASCADE CHARTER TOWNSHIP	S/W CONNECTION 4995 STARR ST SE	237-000	000	880.00
12/17/2020	GENF	72196	NMCOA	MEMBERSHIPS AND DUES- NMCOA-B. WILSON	723-000	371	100.00
12/17/2020	GENF	72202*##	SMART BUSINESS SOURCE	OFFICE SUPPLIES	727-000	371	91.27
12/17/2020	GENF	72202	SMART BUSINESS SOURCE	OFFICE SUPPLIES	727-000	371	14.57
12/17/2020	GENF	72202	SMART BUSINESS SOURCE	OFFICE SUPPLIES	727-000	371	77.77
				CHECK GENF 72202 TOTAL FOR FUND 249:			<u>183.61</u>
12/17/2020	GENF	72207*##	VERIZON WIRELESS	IPADS	924-100	371	90.18
12/18/2020	GENF	6513(A)	FIRST CHOICE COFFEE SERVICE	COFFEE CONTRACT	939-000	371	142.62
12/22/2020	GENF	72209	BENOIT, BILL	REIMBURSE 598 MILES - B.BENOIT	860-000	371	343.85
12/22/2020	GENF	72210	BIEGALLE, JEFFREY	REIMBURSE 561 MILES - J.BIEGALLE	860-000	371	322.58
12/22/2020	GENF	72213	KEN DAVIS	DEPARTMENT UNIFORMS - K.DAVIS	768-000	371	192.88
12/22/2020	GENF	72213	KEN DAVIS	REIMBURSE 383 MILES - K.DAVIS	860-000	371	220.23
				CHECK GENF 72213 TOTAL FOR FUND 249:			<u>413.11</u>
12/22/2020	GENF	72216*##	FIRST BANKCARD	CC WILSON - GOV MEMBER	723-000	371	145.00
12/22/2020	GENF	72216	FIRST BANKCARD	CC WILSON - LASER PRINTER	727-000	371	119.99
				CHECK GENF 72216 TOTAL FOR FUND 249:			<u>264.99</u>
12/22/2020	GENF	72217*##	FIRST BANKCARD	CC ADMIN - BLDG SHOE COVERS	787-000	371	21.58
12/22/2020	GENF	72221	DANIEL L HEYER	REIMBURSE 337 MILES - D. HEYER	860-000	371	193.78
12/22/2020	GENF	72222	HUYSER, DANIEL A.	CLOTHING ALLOW - D.HUYSER	768-000	371	169.55
12/22/2020	GENF	72222	HUYSER, DANIEL A.	REIMBURSE 505 MILES - D.HUYSER	860-000	371	290.38
				CHECK GENF 72222 TOTAL FOR FUND 249:			<u>459.93</u>
12/22/2020	GENF	72226	VINCENT MILITO	DEPARTMENT UNIFORMS - V.MILITO	768-000	371	117.00
12/22/2020	GENF	72226	VINCENT MILITO	REIMBURSE 513 MILES - V.MILITO	860-000	371	294.98
				CHECK GENF 72226 TOTAL FOR FUND 249:			<u>411.98</u>
12/22/2020	GENF	72248*##	PROGRESSIVE AE	CAPITAL OUTLAY - BLDGIMP	975-000	901	69,242.77
12/22/2020	GENF	72250	REITSMA, RON	REIMBURSE 141 MILES - R. REITSMA	860-000	371	81.08

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12/22/2020	GENF	72251	ROWLADER, DENNIS	REIMBURSE 378 MILES - D.ROWLADER	860-000	371	217.35
12/22/2020	GENF	72252	RON SABIN	REIMBURSE 488 MILES - R. SABIN	860-000	371	280.60
12/22/2020	GENF	72260	BRIAN WILSON	REIMBURSE 221 MILES- B. WILSON	860-000	371	127.08
12/23/2020	GENF	49(E)*	WEST MICHIGAN HEALTH INSURANCE POOL	HEALTH INSURANCE BENEFITS	719-000	850	12,389.21
12/23/2020	GENF	6530(A)	3040 CHARLEVOIX II, LLC	RENT / UTILITIES	940-000	371	960.35
12/30/2020	GENF	72288*#	MUTUAL OF OMAHA INSURANCE	LIFE STD BENEFITS (G)	720-000	850	178.84
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	LIFE LTD BENEFITS (F)	720-000	850	440.25
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	LIFE AD&D BENEFITS (B)	720-000	850	26.34
12/30/2020	GENF	72288	MUTUAL OF OMAHA INSURANCE	LIFE INSURANCE BENEFITS (A)	720-000	850	173.31
				CHECK GENF 72288 TOTAL FOR FUND 249:			<u>818.74</u>
12/30/2020	GENF	72291*#	PITNEY BOWES RESERVE ACCOUNT	BLDG POSTAGE & MACHINE LEASE	941-000	371	150.00
12/30/2020	GENF	72298*#	WINDSTREAM	PHONES	924-000	371	69.17
12/31/2020	GENF	6543(A)*	DELTA DENTAL	DENTAL INSURANCE BENEFITS	721-000	850	880.30
12/31/2020	GENF	6544(A)	FIRST CHOICE COFFEE SERVICE	COFFEE CONTRACT	939-000	371	16.04
				Total for fund 249 BUILDING FUND			<u>176,412.05</u>
FUND 270 - LIBRARY FUND							
12/03/2020	GENF	72101*#	B&V MECHANICAL INC.	JANITORIAL & MAINTENANCE	802-200	790	950.36
12/03/2020	GENF	72108*#	COMCAST	LIBRARY PHONES	924-000	790	15.79
12/03/2020	GENF	72111	ELEVATOR SERVICE INC	LIBRARY MAINTENANCE	931-000	790	112.00
12/03/2020	GENF	72132*#	REPUBLIC SERVICES	LIBRARY MAINTENANCE REPUBLIC	931-000	790	570.69
12/03/2020	GENF	72136*#	SUPERIOR PEST CONTROL INC	LIBRARY MAINTENANCE	931-000	790	65.00
12/03/2020	GENF	72136	SUPERIOR PEST CONTROL INC	LIBRARY MAINTENANCE	931-000	790	150.00
				CHECK GENF 72136 TOTAL FOR FUND 270:			<u>215.00</u>
12/03/2020	GENF	72141*#	WINDSTREAM	LIBRARY PHONES	924-000	790	137.87
12/04/2020	GENF	6469(A)*#	CONSUMERS ENERGY	100000284784 2870 JACK SMITH AVE SE	921-000	790	3,597.85
12/04/2020	GENF	6485(A)*#	THE LIGHT BULB COMPANY	JANITORIAL & MAINTENANCE	802-200	790	250.09
12/10/2020	GENF	72154*#	DTE ENERGY	LIBRARY HEATING DTE ENERGY	923-000	790	656.90
12/10/2020	GENF	72163	MINER SUPPLY COMPANY	LIBRARY MAINTENANCE	931-000	790	228.77
12/10/2020	GENF	72173*#	SUPERIOR PEST CONTROL INC	LIBRARY MAINTENANCE	931-000	790	65.00

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12/17/2020	GENF	72185	BRIGADE FIRE PROTECTION	LIBRARY MAINTENANCE	931-000	790	180.00
12/17/2020	GENF	72190*#	CINTAS	2020 MONTHLY RUG CLEANING SERVICE NOV	931-000	790	572.40
12/17/2020	GENF	72206	VERN BRINK ELECTRIC	LIBRARY MAINTENANCE	931-000	790	750.60
12/18/2020	GENF	6515(A)*#	KINGSLAND'S ACE HARDWARE	STEEL TENT STAKE	931-000	790	3.20
12/18/2020	GENF	6523(A)	THE LIGHT BULB COMPANY	LIBRARY MAINTENANCE	931-000	790	394.20
12/22/2020	GENF	72248*#	PROGRESSIVE AE	LIBRARY MAINTENANCE	931-000	790	1,286.15
12/23/2020	GENF	6531(A)*#	CONSUMERS ENERGY	100000284784 2870 JACK SMITH AVE SE	921-000	790	3,281.50
12/30/2020	GENF	72298*#	WINDSTREAM	LIBRARY PHONES	924-000	790	138.35
				Total for fund 270 LIBRARY FUND			13,406.72
FUND 282- CARES ACT							
12/18/2020	GENF	6511(A)	DIGITAL HIGHWAY, INC.	INTERNET CARES ACT	852-000	345	16,248.00
12/22/2020	GENF	72208	A.F. ASSOCIATES FAMILY MEDICINE	COVID 19 EXPENSES	755-000	345	960.00
				Total for fund 282 CARES ACT			17,208.00
FUND 701 - TRUST & AGENCY FUND							
12/10/2020	GENF	72161	MATERIALS TESTING CONSULTANTS, INC	TOM GIUSTI/ ROUND HILL 19:3527	253-418	000	3,325.25
12/11/2020	GENF	6495(A)*#	FISHBECK THOMPSON CARR & HUBER	EDWARD ROSE/ GARDEN APARTMENTS	252-240	000	6,096.50
				Total for fund 701 TRUST AND AGENCY			9,421.75
FUND 701 - TAX FUND							
12/03/2020	GENF	72137	CASCADE CHARTER TWP	CCT - OVER/SHORT	214-112	000	(0.81)
12/03/2020	GENF	72137	CASCADE CHARTER TWP	CCT - ADMIN	214-155	000	344.72
				CHECK GENF 72137 TOTAL FOR FUND 703:			343.91
12/04/2020	GENF	6481(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - OPERATING	225-410	000	94.61
12/04/2020	GENF	6481(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - INTEREST OPER	225-411	000	2.84
				CHECK GENF 6481(A) TOTAL FOR FUND 703:			97.45
12/04/2020	GENF	6482(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - INTEREST	225-411	000	27.54
12/04/2020	GENF	6482(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - DEBT	225-420	000	917.92
				CHECK GENF 6482(A) TOTAL FOR FUND 703:			945.46
12/04/2020	GENF	6483(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - OPERATING	225-110	000	1,975.19
12/04/2020	GENF	6483(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST	225-111	000	203.44
12/04/2020	GENF	6483(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - DEBT	225-120	000	4,183.41
12/04/2020	GENF	6483(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - RECREATION	225-130	000	622.88
				CHECK GENF 6483(A) TOTAL FOR FUND 703:			6,984.92
12/04/2020	GENF	6484(A)	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES	235-110	000	2,657.93
12/04/2020	GENF	6484(A)	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES INTEREST	235-111	000	79.74
				CHECK GENF 6484(A) TOTAL FOR FUND 703:			2,737.67

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12/04/2020	GENF	6487(A)	KENT COUNTY TREASURER	KENT COUNTY - OPERATING	222-110	000	6,426.27
12/04/2020	GENF	6487(A)	KENT COUNTY TREASURER	KENT COUNTY - INTEREST	222-111	000	192.79
				CHECK GENF 6487(A) TOTAL FOR FUND 703:			6,619.06
12/04/2020	GENF	6488(A)	KENT COUNTY TREASURER-SET	KENT COUNTY - INTEREST	222-111	000	273.84
12/04/2020	GENF	6488(A)	KENT COUNTY TREASURER-SET	CALEDONIA SET & OPERATING TAX (COUNTY)	228-001	000	1,573.60
12/04/2020	GENF	6488(A)	KENT COUNTY TREASURER-SET	FHPS SET & OPERATING TAX (COUNTY)	228-001	000	7,549.05
12/04/2020	GENF	6488(A)	KENT COUNTY TREASURER-SET	LOWELL SET & OPERATING TAX (COUNTY)	228-001	000	4.97
				CHECK GENF 6488(A) TOTAL FOR FUND 703:			9,401.46
12/04/2020	GENF	6489(A)	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES	234-110	000	8,471.01
12/04/2020	GENF	6489(A)	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES INTEREST	234-111	000	254.13
				CHECK GENF 6489(A) TOTAL FOR FUND 703:			8,725.14
12/04/2020	GENF	6490(A)	LOWELL AREA SCHOOLS	LOWELL - INTEREST	226-111	000	0.10
12/04/2020	GENF	6490(A)	LOWELL AREA SCHOOLS	LOWELL - DEBT	226-120	000	2.90
12/04/2020	GENF	6490(A)	LOWELL AREA SCHOOLS	LOWELL BLDG/SITE	226-130	000	0.40
				CHECK GENF 6490(A) TOTAL FOR FUND 703:			3.40
12/10/2020	GENF	72160	KENT DISTRICT LIBRARY	KDL - TAXES	223-110	000	83,843.56
12/10/2020	GENF	72164	ADVANTAGE TITLE	DUE TO 41-19-10-252-004	275-000	000	583.77
12/10/2020	GENF	72174	CASCADE CHARTER TWP	CCT - OVER/SHORT	214-112	000	2.44
12/10/2020	GENF	72174	CASCADE CHARTER TWP	CCT - PRE INTEREST	214-135	000	58.90
12/10/2020	GENF	72174	CASCADE CHARTER TWP	CCT - ADMIN	214-155	000	7,901.46
				CHECK GENF 72174 TOTAL FOR FUND 703:			7,962.80
12/10/2020	GENF	72175	KENT COUNTY DRAIN COMMISSION	HUMPHREY	214-135	000	398.40
12/10/2020	GENF	72175	KENT COUNTY DRAIN COMMISSION	APPLE HILL	214-135	000	172.68
12/10/2020	GENF	72175	KENT COUNTY DRAIN COMMISSION	OATMAN	222-180	000	3,331.05
12/10/2020	GENF	72175	KENT COUNTY DRAIN COMMISSION	FASE	222-180	000	204.73
				CHECK GENF 72175 TOTAL FOR FUND 703:			4,106.86
12/10/2020	GENF	72176	STATE OF MICHIGAN	411936400043 PRE DENIAL INTEREST	214-135	000	8.41
12/11/2020	GENF	6498(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - OPERATING	225-410	000	9,582.10
12/11/2020	GENF	6498(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - INTEREST OPER	225-411	000	67.93
				CHECK GENF 6498(A) TOTAL FOR FUND 703:			9,650.03
12/11/2020	GENF	6499(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - INTEREST	225-411	000	6.63
12/11/2020	GENF	6499(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - DEBT	225-420	000	13,366.56
				CHECK GENF 6499(A) TOTAL FOR FUND 703:			13,373.19
12/11/2020	GENF	6500(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - OPERATING	225-110	000	37,760.88
12/11/2020	GENF	6500(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST	225-111	000	124.63
12/11/2020	GENF	6500(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - DEBT	225-120	000	200,808.98
12/11/2020	GENF	6500(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - RECREATION	225-130	000	29,893.42
				CHECK GENF 6500(A) TOTAL FOR FUND 703:			268,587.91
12/11/2020	GENF	6501(A)	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES	235-110	000	2,099.29
12/11/2020	GENF	6501(A)	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES INTEREST	235-111	000	67.83
				CHECK GENF 6501(A) TOTAL FOR FUND 703:			2,167.12
12/11/2020	GENF	6503(A)	KENT COUNTY TREASURER	PA 105 PRE INTEREST	214-135	000	16.83
12/11/2020	GENF	6503(A)	KENT COUNTY TREASURER	KENT COUNTY - OPERATING	222-110	000	5,075.61
12/11/2020	GENF	6503(A)	KENT COUNTY TREASURER	KENT COUNTY - INTEREST	222-111	000	164.02
12/11/2020	GENF	6503(A)	KENT COUNTY TREASURER	KENT COUNTY - JAIL	222-160	000	51,427.57

CHECK DISBURSEMENT REPORT FOR CASCADE CHARTER TOWNSHIP
CHECK DATE FROM 12/01/2020 - 12/31/2020

Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
12/11/2020	GENF	6503(A)	KENT COUNTY TREASURER	KENT COUNTY - ZOO/MUSEUM	222-165	000	28,661.83
12/11/2020	GENF	6503(A)	KENT COUNTY TREASURER	KENT COUNTY - SENIOR	222-170	000	32,573.95
12/11/2020	GENF	6503(A)	KENT COUNTY TREASURER	KENT COUNTY - VETERAN'S MILLAGE	222-172	000	3,243.63
12/11/2020	GENF	6503(A)	KENT COUNTY TREASURER	KENT COUNTY - EARLY CHILDHOOD	222-185	000	16,419.19
				CHECK GENF 6503(A) TOTAL FOR FUND 703:			137,582.63
12/11/2020	GENF	6504(A)	KENT COUNTY TREASURER-SET	KENT COUNTY - INTEREST	222-111	000	232.98
12/11/2020	GENF	6504(A)	KENT COUNTY TREASURER-SET	CALEDONIA SET & OPERATING TAX (COUNTY)	228-001	000	377.72
12/11/2020	GENF	6504(A)	KENT COUNTY TREASURER-SET	FHPS SET & OPERATING TAX (COUNTY)	228-001	000	5,954.91
12/11/2020	GENF	6504(A)	KENT COUNTY TREASURER-SET	LOWELL SET & OPERATING TAX (COUNTY)	228-001	000	876.60
				CHECK GENF 6504(A) TOTAL FOR FUND 703:			7,442.21
12/11/2020	GENF	6505(A)	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES	234-110	000	6,690.62
12/11/2020	GENF	6505(A)	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES INTEREST	234-111	000	216.21
				CHECK GENF 6505(A) TOTAL FOR FUND 703:			6,906.83
12/11/2020	GENF	6506(A)	LOWELL AREA SCHOOLS	LOWELL - OPERATING	226-110	000	8,600.68
12/11/2020	GENF	6506(A)	LOWELL AREA SCHOOLS	LOWELL - INTEREST	226-111	000	29.57
12/11/2020	GENF	6506(A)	LOWELL AREA SCHOOLS	LOWELL - DEBT	226-120	000	12,715.01
12/11/2020	GENF	6506(A)	LOWELL AREA SCHOOLS	LOWELL BLDG/SITE	226-130	000	1,743.65
				CHECK GENF 6506(A) TOTAL FOR FUND 703:			23,088.91
12/17/2020	GENF	72194	SUN TITLE AGENCY OF MICHIGAN, LLC	DUE 41-19-17-253-001	275-000	000	65.92
12/17/2020	GENF	72195	SERVICELINK	DUE TO 41-19-08-277-001	275-000	000	272.94
12/17/2020	GENF	72203	CASCADE CHARTER TWP	CCT - OVER/SHORT	214-112	000	(0.09)
12/17/2020	GENF	72203	CASCADE CHARTER TWP	CCT - ADMIN	214-155	000	11,909.09
				CHECK GENF 72203 TOTAL FOR FUND 703:			11,909.00
12/17/2020	GENF	72204	KENT COUNTY DRAIN COMMISSION	KENT COUNTY DRAIN	214-135	000	203.52
12/17/2020	GENF	72204	KENT COUNTY DRAIN COMMISSION	KENT COUNTY DRAIN	222-180	000	516.97
				CHECK GENF 72204 TOTAL FOR FUND 703:			720.49
12/17/2020	GENF	72205	KENT DISTRICT LIBRARY	KDL - TAXES	223-110	000	111,988.86
12/18/2020	GENF	6519(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - OPERATING	225-410	000	26,921.32
12/18/2020	GENF	6520(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - INTEREST	225-411	000	21.30
12/18/2020	GENF	6520(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - DEBT	225-420	000	25,095.88
				CHECK GENF 6520(A) TOTAL FOR FUND 703:			25,117.18
12/18/2020	GENF	6521(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - OPERATING	225-110	000	169,686.50
12/18/2020	GENF	6521(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST	225-111	000	628.31
12/18/2020	GENF	6521(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - DEBT	225-120	000	275,687.32
12/18/2020	GENF	6521(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - RECREATION	225-130	000	41,040.55
				CHECK GENF 6521(A) TOTAL FOR FUND 703:			487,042.68
12/18/2020	GENF	6522(A)	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES	235-110	000	4,415.26
12/18/2020	GENF	6522(A)	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES INTEREST	235-111	000	167.70
				CHECK GENF 6522(A) TOTAL FOR FUND 703:			4,582.96
12/18/2020	GENF	6524(A)	KENT COUNTY TREASURER	KENT COUNTY - OPERATING	222-110	000	10,675.11
12/18/2020	GENF	6524(A)	KENT COUNTY TREASURER	KENT COUNTY - INTEREST	222-111	000	405.40
12/18/2020	GENF	6524(A)	KENT COUNTY TREASURER	KENT COUNTY - JAIL	222-160	000	68,691.50
12/18/2020	GENF	6524(A)	KENT COUNTY TREASURER	KENT COUNTY - ZOO/MUSEUM	222-165	000	38,283.41
12/18/2020	GENF	6524(A)	KENT COUNTY TREASURER	KENT COUNTY - SENIOR	222-170	000	43,508.75
12/18/2020	GENF	6524(A)	KENT COUNTY TREASURER	KENT COUNTY - VETERAN'S MILLAGE	222-172	000	4,332.69

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Check Date	Bank	Check #	Payee	Description	Account	Dept	Amount
12/18/2020	GENF	6524(A)	KENT COUNTY TREASURER	KENT COUNTY - EARLY CHILDHOOD CHECK GENF 6524(A) TOTAL FOR FUND 703:	222-185	000	<u>21,931.20</u> 187,828.06
12/18/2020	GENF	6525(A)	KENT COUNTY TREASURER-SET	KENT COUNTY - INTEREST	222-111	000	575.85
12/18/2020	GENF	6525(A)	KENT COUNTY TREASURER-SET	CALEDONIA SET & OPERATING TAX (COUNTY)	228-001	000	913.17
12/18/2020	GENF	6525(A)	KENT COUNTY TREASURER-SET	FHPS SET & OPERATING TAX (COUNTY) CHECK GENF 6525(A) TOTAL FOR FUND 703:	228-001	000	<u>14,249.30</u> 15,738.32
12/18/2020	GENF	6526(A)	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES	234-110	000	14,071.75
12/18/2020	GENF	6526(A)	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES INTEREST CHECK GENF 6526(A) TOTAL FOR FUND 703:	234-111	000	<u>534.41</u> 14,606.16
12/18/2020	GENF	6527(A)	LOWELL AREA SCHOOLS	LOWELL - OPERATING	226-110	000	166.83
12/18/2020	GENF	6527(A)	LOWELL AREA SCHOOLS	LOWELL - DEBT	226-120	000	5,105.79
12/18/2020	GENF	6527(A)	LOWELL AREA SCHOOLS	LOWELL BLDG/SITE CHECK GENF 6527(A) TOTAL FOR FUND 703:	226-130	000	<u>700.17</u> 5,972.79
12/22/2020	GENF	72227	ESSENTIAL TITLE AGENCY, LLC	DUE TO 411903105010	275-000	000	300.00
12/22/2020	GENF	72228	STAUFFER ROBERT & KIMBERLEY	DBOR 411905151061	275-000	000	3,951.24
12/22/2020	GENF	72229	CORELOGIC CENTRALIZED REFUNDS	DUE TO 411915201025	275-000	000	1,128.22
12/22/2020	GENF	72230	CORELOGIC CENTRALIZED REFUNDS	DUE TO 411916426005	275-000	000	2,112.64
12/22/2020	GENF	72231	CORELOGIC CENTRALIZED REFUNDS	DUE TO 411908431029	275-000	000	1,166.55
12/22/2020	GENF	72232	CORELOGIC CENTRALIZED REFUNDS	DUE TO 411909305014	275-000	000	939.09
12/22/2020	GENF	72233	CORELOGIC CENTRALIZED REFUNDS	DUE TO 411915401010	275-000	000	1,907.22
12/22/2020	GENF	72234	CORELOGIC CENTRALIZED REFUNDS	DUE TO 411904120001	275-000	000	1,813.24
12/22/2020	GENF	72235	CORELOGIC CENTRALIZED REFUNDS	DUE TO 411915113001	275-000	000	1,726.55
12/22/2020	GENF	72236	CORELOGIC CENTRALIZED REFUNDS	DUE TO 411908277001	275-000	000	3,057.21
12/22/2020	GENF	72237	CORELOGIC CENTRALIZED REFUNDS	DUE TO 411908226002	275-000	000	684.05
12/22/2020	GENF	72238	CORELOGIC CENTRALIZED REFUNDS	DUE TO 411905427009	275-000	000	608.63
12/22/2020	GENF	72239	CORELOGIC CENTRALIZED REFUNDS	DUE TO 411935300048	275-000	000	3,269.35
12/22/2020	GENF	72240	1631 MONT RUE TRUST	DBOR 411905427009	275-000	000	1,214.54
12/22/2020	GENF	72241	BRYANT ELEANOR TRUST	DBOR 411907177135	275-000	000	1,177.09
12/22/2020	GENF	72242	MOHAMMADI SAEID &	DBOR 411909305014	275-000	000	939.11
12/22/2020	GENF	72243	DELANO RICHARD FAMILY TRUST	DBOR 411917257004	275-000	000	1,133.78

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12/22/2020	GENF	72244	CROSS ELLEN	DBOR 411935300048	275-000	000	2,170.48
12/22/2020	GENF	72245	AAC CREDIT UNION	DUE TO 411917179017	275-000	000	858.77
12/22/2020	GENF	72246	FINKO LLC	DUE TO 411916120001	275-000	000	200.00
12/22/2020	GENF	72256	CASCADE CHARTER TWP	CCT - OVER/SHORT	214-112	000	(0.91)
12/22/2020	GENF	72256	CASCADE CHARTER TWP	CCT - ADMIN	214-155	000	38,448.93
				CHECK GENF 72256 TOTAL FOR FUND 703:			38,448.02
12/22/2020	GENF	72257	KENT COUNTY DRAIN COMMISSION	APPLE HILLS	222-180	000	1,250.39
12/22/2020	GENF	72257	KENT COUNTY DRAIN COMMISSION	FASE STREET	222-180	000	256.77
12/22/2020	GENF	72257	KENT COUNTY DRAIN COMMISSION	HUMPHREY	222-180	000	172.35
12/22/2020	GENF	72257	KENT COUNTY DRAIN COMMISSION	OATMAN	222-180	000	191.08
				CHECK GENF 72257 TOTAL FOR FUND 703:			1,870.59
12/22/2020	GENF	72258	KENT DISTRICT LIBRARY	KDL - TAXES	223-110	000	422,323.82
12/23/2020	GENF	6534(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - OPERATING	225-410	000	155,846.28
12/23/2020	GENF	6534(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - INTEREST OPER	225-411	000	5.11
				CHECK GENF 6534(A) TOTAL FOR FUND 703:			155,851.39
12/23/2020	GENF	6535(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - INTEREST	225-411	000	1.99
12/23/2020	GENF	6535(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - DEBT	225-420	000	111,298.32
				CHECK GENF 6535(A) TOTAL FOR FUND 703:			111,300.31
12/23/2020	GENF	6536(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - OPERATING	225-110	000	128,274.01
12/23/2020	GENF	6536(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST	225-111	000	216.97
12/23/2020	GENF	6536(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - DEBT	225-120	000	988,070.40
12/23/2020	GENF	6536(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - RECREATION	225-130	000	147,110.46
				CHECK GENF 6536(A) TOTAL FOR FUND 703:			1,263,671.84
12/23/2020	GENF	6537(A)	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES	235-110	000	2,297.44
12/23/2020	GENF	6537(A)	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES INTEREST	235-111	000	47.33
				CHECK GENF 6537(A) TOTAL FOR FUND 703:			2,344.77
12/23/2020	GENF	6538(A)	KENT COUNTY TREASURER	KENT COUNTY - OPERATING	222-110	000	5,528.26
12/23/2020	GENF	6538(A)	KENT COUNTY TREASURER	KENT COUNTY - INTEREST	222-111	000	114.47
12/23/2020	GENF	6538(A)	KENT COUNTY TREASURER	KENT COUNTY - JAIL	222-160	000	259,212.52
12/23/2020	GENF	6538(A)	KENT COUNTY TREASURER	KENT COUNTY - ZOO/MUSEUM	222-165	000	144,166.62
12/23/2020	GENF	6538(A)	KENT COUNTY TREASURER	KENT COUNTY - SENIOR	222-170	000	164,064.08
12/23/2020	GENF	6538(A)	KENT COUNTY TREASURER	KENT COUNTY - VETERAN'S MILLAGE	222-172	000	16,315.22
12/23/2020	GENF	6538(A)	KENT COUNTY TREASURER	KENT COUNTY - EARLY CHILDHOOD	222-185	000	82,587.24
				CHECK GENF 6538(A) TOTAL FOR FUND 703:			671,988.41
12/23/2020	GENF	6539(A)	KENT COUNTY TREASURER-SET	KENT COUNTY - INTEREST	222-111	000	162.60
12/23/2020	GENF	6539(A)	KENT COUNTY TREASURER-SET	CALEDONIA SET & OPERATING TAX (COUNTY)	228-001	000	85.20
12/23/2020	GENF	6539(A)	KENT COUNTY TREASURER-SET	FHPS SET & OPERATING TAX (COUNTY)	228-001	000	3,641.78
				CHECK GENF 6539(A) TOTAL FOR FUND 703:			3,889.58
12/23/2020	GENF	6540(A)	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES	234-110	000	6,641.35
12/23/2020	GENF	6540(A)	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES INTEREST	234-111	000	150.89
				CHECK GENF 6540(A) TOTAL FOR FUND 703:			6,792.24
12/23/2020	GENF	6541(A)	LOWELL AREA SCHOOLS	LOWELL - OPERATING	226-110	000	929.05
12/23/2020	GENF	6541(A)	LOWELL AREA SCHOOLS	LOWELL - DEBT	226-120	000	28,694.14
12/23/2020	GENF	6541(A)	LOWELL AREA SCHOOLS	LOWELL BLDG/SITE	226-130	000	3,934.86
				CHECK GENF 6541(A) TOTAL FOR FUND 703:			33,558.05

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12/30/2020	GENF	72279	LERETA - CENTRAL REFUNDS	DUE TO 411902351015	275-000	000	1,960.22
12/30/2020	GENF	72280	LERETA	DUE TO 411904351004	275-000	000	843.46
12/30/2020	GENF	72281	LERETA	DUE TO 411910430006	275-000	000	3,893.08
12/30/2020	GENF	72282	LERETA	DUE TO 411910476021	275-000	000	1,901.10
12/30/2020	GENF	72283	LERETA	DUE TO 11326001	275-000	000	3,819.64
12/30/2020	GENF	72284	LERETA	DUE TO 411917428002	275-000	000	1,874.19
12/30/2020	GENF	72285	LERETA	DUE TO 411921202003	275-000	000	1,808.21
12/30/2020	GENF	72286	LERETA	DUE TO 411926127005	275-000	000	1,115.24
12/30/2020	GENF	72287	LERETA	DUE TO 411934130006	275-000	000	1,282.56
12/30/2020	GENF	72295	CASCADE CHARTER TWP	CCT - OVER/SHORT	214-112	000	2.24
12/30/2020	GENF	72295	CASCADE CHARTER TWP	CCT - ADMIN	214-155	000	21,078.66
				CHECK GENF 72295 TOTAL FOR FUND 703:			<u>21,080.90</u>
12/30/2020	GENF	72296	KENT COUNTY DRAIN COMMISSION	APPLE HILLS	222-180	000	431.70
12/30/2020	GENF	72296	KENT COUNTY DRAIN COMMISSION	FASE STREET	222-180	000	267.60
12/30/2020	GENF	72296	KENT COUNTY DRAIN COMMISSION	HUMPHREY	222-180	000	64.99
12/30/2020	GENF	72296	KENT COUNTY DRAIN COMMISSION	OATMAN	222-180	000	605.97
				CHECK GENF 72296 TOTAL FOR FUND 703:			<u>1,370.26</u>
12/30/2020	GENF	72297	KENT DISTRICT LIBRARY	KDL - TAXES	223-110	000	225,313.01
12/31/2020	GENF	6549(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - OPERATING	225-410	000	43,049.92
12/31/2020	GENF	6550(A)	CALEDONIA COMMUNITY SCHOOLS	CALEDONIA - DEBT	225-420	000	45,119.57
12/31/2020	GENF	6551(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - OPERATING	225-110	000	149,572.36
12/31/2020	GENF	6551(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - INTEREST	225-111	000	188.30
12/31/2020	GENF	6551(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - DEBT	225-120	000	541,057.37
12/31/2020	GENF	6551(A)	FOREST HILLS PUBLIC SCHOOLS	FHPS - RECREATION	225-130	000	80,544.62
				CHECK GENF 6551(A) TOTAL FOR FUND 703:			<u>771,362.65</u>
12/31/2020	GENF	6552(A)	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES	235-110	000	1,523.53
12/31/2020	GENF	6552(A)	GRAND RAPIDS COMMUNITY COLLEGE	GRCC - TAXES INTEREST	235-111	000	60.95
				CHECK GENF 6552(A) TOTAL FOR FUND 703:			<u>1,584.48</u>
12/31/2020	GENF	6554(A)	KENT COUNTY TREASURER	KENT COUNTY - OPERATING	222-110	000	3,683.59
12/31/2020	GENF	6554(A)	KENT COUNTY TREASURER	KENT COUNTY - INTEREST	222-111	000	147.34
12/31/2020	GENF	6554(A)	KENT COUNTY TREASURER	KENT COUNTY - JAIL	222-160	000	138,201.71
12/31/2020	GENF	6554(A)	KENT COUNTY TREASURER	KENT COUNTY - ZOO/MUSEUM	222-165	000	77,023.21
12/31/2020	GENF	6554(A)	KENT COUNTY TREASURER	KENT COUNTY - SENIOR	222-170	000	87,536.14
12/31/2020	GENF	6554(A)	KENT COUNTY TREASURER	KENT COUNTY - VETERAN'S MILLAGE	222-172	000	8,716.78
12/31/2020	GENF	6554(A)	KENT COUNTY TREASURER	KENT COUNTY - EARLY CHILDHOOD	222-185	000	44,123.58
				CHECK GENF 6554(A) TOTAL FOR FUND 703:			<u>359,432.35</u>

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12/31/2020	GENF	6555(A)	KENT COUNTY TREASURER-SET	KENT COUNTY - INTEREST	222-111	000	209.28
12/31/2020	GENF	6555(A)	KENT COUNTY TREASURER-SET	FHPS SET & OPERATING TAX (COUNTY)	228-001	000	5,232.00
				CHECK GENF 6555(A) TOTAL FOR FUND 703:			<u>5,441.28</u>
12/31/2020	GENF	6556(A)	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES	234-110	000	4,855.64
12/31/2020	GENF	6556(A)	KENT INTERMEDIATE SCHOOLS	KENT ISD - TAXES INTEREST	234-111	000	194.22
				CHECK GENF 6556(A) TOTAL FOR FUND 703:			<u>5,049.86</u>
12/31/2020	GENF	6557(A)	LOWELL AREA SCHOOLS	LOWELL - OPERATING	226-110	000	3,047.90
12/31/2020	GENF	6557(A)	LOWELL AREA SCHOOLS	LOWELL - DEBT	226-120	000	15,222.48
12/31/2020	GENF	6557(A)	LOWELL AREA SCHOOLS	LOWELL BLDG/SITE	226-130	000	2,087.47
				CHECK GENF 6557(A) TOTAL FOR FUND 703:			<u>20,357.85</u>
				Total for fund 703 CURRENT TAX COLLECTION FUND			<u>5,753,985.99</u>
				TOTAL - ALL FUNDS			<u>\$ 7,487,853.18</u>

'*'-INDICATES CHECK DISTRIBUTED TO MORE THAN ONE FUND

'#'-INDICATES CHECK DISTRIBUTED TO MORE THAN ONE DEPARTMENT

Transactions Log for Payroll Deductions
MONTH ENDING: DECEMBER 2020

Direct Deposit

Date Submitted	<u>12/7/20</u>	Transaction#	<u>ITYNGSI4AE5</u>	Amount	<u>\$98,229.80</u>
Date Submitted	<u>12/10/20</u>	Transaction#	<u>B014W4273WD</u>	Amount	<u>\$94,223.12</u>
Date Submitted	_____	Transaction#	_____	Amount	_____

Deferred Comp

Date Submitted	<u>12/7/20</u>	Transaction#	_____	Amount	<u>100⁰⁰</u>
Date Submitted	<u>12/21/20</u>	Transaction#	_____	Amount	<u>828.57</u>
Date Submitted	_____	Transaction#	_____	Amount	_____

Payroll Taxes

Date Submitted	<u>12/7/20</u>	Transaction#	<u>52173337</u>	Amount	<u>\$36,690.00</u>
Date Submitted	<u>12/18/20</u>	Transaction#	<u>55143011</u>	Amount	<u>\$15,251.70</u>
Date Submitted	<u>12/11/20</u>	Transaction#	<u>25494638</u>	Amount	<u>\$34,484.18</u>

HSA

Date Submitted	<u>12/7/20</u>	Transaction#	<u>6PUVH1L5WE</u>	Amount	<u>2418.00</u>
Date Submitted	<u>12/21/20</u>	Transaction#	<u>MBJ48WPI04</u>	Amount	<u>2418.00</u>
Date Submitted	_____	Transaction#	_____	Amount	_____

ICMA RC

Date Submitted	<u>12/7/20</u>	Transaction#	<u>ZNLFZP9P38</u>	Amount	<u>\$820.88</u>
Date Submitted	<u>12/21/20</u>	Transaction#	<u>WXZ9Y19V8A</u>	Amount	<u>\$1,096.13</u>
Date Submitted	_____	Transaction#	_____	Amount	_____

MERS DB EE

Date Submitted	<u>12/21/20</u>	Transaction#	<u>0014220-01</u>	Amount	<u>8,380.68</u>
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MERS DB ER

Date Submitted	<u>12/21/20</u>	Transaction#	<u>0014220-02</u>	Amount	<u>15,953.60</u>
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MERS DC

Date Submitted	<u>12/7/20</u>	Transaction#	<u>84</u>	Amount	<u>16,695.34</u>
Date Submitted	<u>12/21/20</u>	Transaction#	<u>85</u>	Amount	<u>14,829.65</u>
Date Submitted	_____	Transaction#	_____	Amount	_____

Monthly Check Register - Gross

Date Submitted	<u>12-22-20</u>	Amount	<u>343,025.05</u>
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Clerk's Office

Date K M

CASCADE TOWNSHIP  FIRE DEPARTMENT

Dedicated to Serving You

January 20, 2021

Township Board Staff Report

Medic 1 and Chief Vehicles

Members of the Board,

The fire department is requesting the approval for the purchase of the following vehicles:

- Medic 1 – 2021 Ford F-250
- Chief/Command Vehicle – 2021 Ford F-250

Per our vehicle replacement schedule, current Chief vehicle (2016 Tahoe) and Medic 11 (2015 Suburban) will rotate into our Inspection/Prevention division. Our current Inspector vehicle (2012 Suburban) is shared by our Fire Marshal and Inspector. This vehicle will go into utility status where it will be used for staff transport to classes/training/errands/etc. Current Utility is a 2007 Suburban that is in rough shape and will go to auction. By purchasing pick-up trucks instead of SUVs we are continuing our goal of reducing carcinogens and contamination in the passenger compartment of our vehicles. Attached you will find three vehicle quotes from Borgman Ford, Fox Ford, and Betten Ford.

The vehicles will need to be upfitted with lights/sirens/radios/wiring/caps/slide-out/equip and graphics. Great Lakes Upfitting out of Holland Michigan is recommended. (See attached quote)

We recommend the GOVT Pricing quote from Borgman Ford for the Medic and Command vehicles at \$35,751 and \$36,571 respectively. If approved, the purchase of each vehicle, plus upfitting and miscellaneous, shall not exceed \$60,000.

Thank you for your consideration.



Adam T. Magers

Fire Chief, Cascade Township

Prepared for: Mr. D VENEMA, CASCADE TWP FIRE
2865 THORNHILLS AVE SE
GRAND RAPIDS, MI 49546
Office: 616-949-1320
Email: dvenema@cascadetwp.com

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)
Price Level: 115



Client Proposal

Prepared by:
Tod Tobin
Office: 616-710-2209
Email: ttobin@borgmanfordmazda.com
Quote ID: cascadetwp
Date: 01/14/2021



Prepared for: Mr. D VENEMA

CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021



Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

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Prepared for: Mr. D VENEMA



CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

Pricing Summary - Single Vehicle

	MSRP
<i>Vehicle Pricing</i>	
Base Vehicle Price	\$40,620.00
Options & Colors	\$5,345.00
Upfitting	\$0.00
Destination Charge	\$1,695.00
Subtotal	\$47,660.00
<i>Pre-Tax Adjustments</i>	
Code	Description
GOVT KIZ 5/17	BORGMAN FORD / GOVT PRICING
	-\$11,089.00
<small>Cascade Twp Fire Govt Pricing along with Borgman Ford Discount</small>	
Total	\$36,571.00

Customer Signature

Acceptance Date

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Prepared for: Mr. D VENEMA

CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021



Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

Major Equipment

(Based on selected options, shown at right)

6.2L V-8 SOHC w/SMPI 385hp
TorqShift-G 6 speed automatic w/OD

- * 4-wheel ABS
- * Traction control
- * Battery with run down protection
- * Advance Trac w/Roll Stability Control
- * Tinted glass
- * Bluetooth streaming audio
- * Dual power remote heated mirrors
- * 18 x 8 aluminum wheels
- * Driver and front passenger seat mounted side airbags
- * Tachometer
- * Underseat ducts
- * 60-40 folding rear split-bench
- * Audio control on steering wheel
- * Front axle capacity: 6000 lbs.
- * Front spring rating: 4800 lbs.
- * Frame section modulus: 10.7 cu.in.
- * Cab to axle: 39.9"

- Exterior: Oxford White
- Interior: Medium Earth Gray
- * Brake assistance
- * LT 275/65R18 E BSW AS S-rated tires
- * Firm suspension
- * Air conditioning
- * AM/FM stereo with seek-scan, external memory control
- * Daytime running
- * Variable intermittent wipers
- * Dual front airbags
- * SecuriLock immobilizer
- * Message Center
- * Reclining front bucket seats
- * Running boards
- * Class V hitch
- * Rear axle capacity: 6200 lbs.
- * Rear spring rating: 6340 lbs.
- * Frame Yield Strength 50000 psi

Fuel Economy

As Configured Vehicle

MSRP

STANDARD VEHICLE PRICE	\$40,620.00
Order Code 600A	N/C
160" Wheelbase	STD
Monotone Paint Application	STD
50-State Emissions System	STD
Vinyl 40/Mini-Console/40 Front Seat (Fleet)	\$355.00
Fleet Advertising Credit	\$0.00
Power Equipment Group	\$1,075.00
Platform Running Boards	\$445.00
Upfitter Switches (6)	\$165.00
Oxford White	N/C
Medium Earth Gray	N/C
Engine: 6.2L 2-Valve SOHC EFI NA V8 Flex-Fuel	Included
Transmission: TorqShift-G 6-Spd Auto w/SelectShift	Included
3.73 Axle Ratio	Included
GVWR: 10,000 lb Payload Package	Included
Radio: AM/FM Stereo w/MP3 Player	Included
STX Appearance Package	\$1,825.00
Wheels: 18" Sparkle Silver Painted Cast Aluminum	Included

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Prepared for: Mr. D VENEMA

CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021



Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

Major Equipment

City
N/A



Hwy
N/A

As Configured Vehicle

MSRP

Tires: LT275/65Rx18E BSW A/S	Included
Bright Chrome Hub Covers & Center Ornaments	Included
Chrome Front Bumper	Included
Chrome Rear Step Bumper	Included
Accessory Delay	Included
Trailer Tow Mirrors w/Power Heated Glass	Included
Advanced Security Pack	Included
Power Locks	Included
Power Tailgate Lock	Included
Power Front & Rear Seat Windows	Included
Remote Keyless Entry	Included
200 Amp Alternator	Included
Bright Chrome Grille	Included
Steering Wheel-Mounted Cruise Control	Included
Color-Coordinated Full Carpet w/Floor Mats	\$60.00
Remote Start System	\$250.00
SYNC 3 Communications & Entertainment System	\$450.00
110V/400W Outlet	Included
Fleet Final Order Date: 02/18/2021	N/C

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Prepared for: Mr. D VENEMA

CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021



Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

<i>As Configured Vehicle</i>	MSRP
Reverse Sensing System (Fleet)	\$245.00
Daytime Running Lamps (DRL) (LPO)	\$45.00
Trailer Brake Controller	\$270.00
LED Box Lighting	\$60.00
Transfer Case & Fuel Tank Skid Plates	\$100.00
<hr/>	
SUBTOTAL	\$45,965.00
Destination Charge	\$1,695.00
<hr/>	
TOTAL	\$47,660.00

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Prepared for: Mr. D VENEMA

CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418



2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

Selected Equip & Specs

Dimensions

• Exterior length: 250.0" • Cab to axle: 39.9" • Exterior width: 80.0" • Exterior height: 81.5" • Wheelbase: 160.0" • Front track: 68.3" • Rear track: 67.2" • Turning radius: 26.5' • Min ground clearance: 8.2" • Front legroom: 43.9" • Rear legroom: 43.6" • Front headroom: 40.8" • Rear headroom: 40.4" • Front hiproom: 62.5" • Rear hiproom: 64.7" • Front shoulder room: 66.7" • Rear shoulder room: 65.9" • Passenger volume: 131.7cu.ft. • Approach angle: 17.9 deg • Departure angle: 22.1 deg • Cargo volume: 52.1cu.ft. • Maximum cargo volume: 52.1cu.ft. • Box length: 81.9"

Powertrain

• 385hp 6.2L SOHC 16 valve V-8 engine with variable valve control, SMPI • Recommended fuel : regular unleaded • federal • TorqShift-G 6 speed automatic transmission with overdrive • Part-time • Fuel Economy Cty: N/A • Fuel Economy Highway: N/A

Suspension/Handling

• Front Mono-beam non-independent suspension with anti-roll bar, HD shocks • Rear rigid axle leaf spring suspension with HD shocks • Firm ride Suspension • Hydraulic power-assist re-circulating ball Steering * **Front and rear 18 x 8 silver aluminum wheels** * **LT275/65SR18 EBSW AS front and rear tires**

Body Exterior

• 4 doors • Conventional left rear passenger • Conventional right rear passenger * **Driver and passenger power remote heated, manual folding door mirrors with turn signal indicator** * **Turn signal indicator in mirrors** • Black door mirrors * **Chrome bumpers** * **Running boards** * **Class V trailer hitch with with brake controller and trailer sway control** • Bed-rail protectors • Trailer harness • Box style: regular • Clearcoat paint * **Front and rear 18 x 8 wheels** • 2 front tow hook(s)

Convenience

• Manual air conditioning with air filter * **Cruise control with steering wheel controls** * **Power windows** * **Driver and passenger 1-touch up** * **Driver and passenger 1-touch down** * **Remote power door locks with 2 stage unlock and illuminated entry** • Manual tilt steering wheel • Manual telescopic steering wheel • Day-night rearview mirror • FordPass Connect 4G internet access * **SYNC 3 911 Assist emergency SOS** • Wireless phone connectivity • 2 1st row LCD monitors • Front and rear cupholders • Passenger visor mirror • Full overhead console * **Driver and passenger door bins** * **Rear door bins** * **Upfitter switches**

Seats and Trim

* **Seating capacity of 5** * **Front bucket seats** • 4-way driver seat adjustment • Manual driver lumbar support • 4-way passenger seat adjustment • 60-40 folding rear split-bench seat

Entertainment Features

• AM/FM stereo radio * **SYNC 3 external memory control** • Steering wheel mounted radio controls • 4 speakers • Streaming audio • Fixed antenna

Lighting, Visibility and Instrumentation

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Prepared for: Mr. D VENEMA



CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

Selected Equip & Specs (cont'd)

- Halogen aero-composite headlights • Delay-off headlights • Fully automatic headlights • Variable intermittent front windshield wipers • Light tinted windows • Front and rear reading lights • Tachometer • Oil pressure gauge • Compass • Outside temperature display • Camera(s) - rear • Low tire pressure warning • Trip computer • **Parking sensors** • Trip odometer • **Configurable digital/analog gauges**

Safety and Security

- 4-wheel ABS brakes • Brake assist with hill hold control • 4-wheel disc brakes • AdvanceTrac w/Roll Stability Control Electronic stability control • ABS and driveline traction control • Dual front impact airbag supplemental restraint system • Dual seat mounted side impact airbag supplemental restraint system • Safety Canopy System curtain 1st and 2nd row overhead airbag supplemental restraint system • **Remote activated perimeter/approach lighting** • **Power remote door locks with 2 stage unlock and panic alarm** • **Security system with SecuriLock immobilizer** • MyKey restricted driving mode • Manually adjustable front head restraints • 3 manually adjustable rear head restraints

Dimensions

General Weights

* Curb	6,584 lbs.	GVWR	10,000 lbs.
Payload	3,470 lbs.		

Front Weights

Front GAWR	4,800 lbs.	* Front curb weight	3,906 lbs.
Front axle capacity	6,000 lbs.	Front spring rating	4,800 lbs.
* Front tire/wheel capacity	7,050 lbs.		

Rear Weights

Rear GAWR	6,340 lbs.	* Rear curb weight	2,677 lbs.
Rear axle capacity	6,200 lbs.	Rear spring rating	6,340 lbs.
* Rear tire/wheel capacity	7,050 lbs.		

Trailer Type

Type	Regular	Harness	Yes
Class	V	Hitch	Yes
* Brake controller	Yes	Trailer sway control	Yes

General Trailering

5th-wheel towing capacity	12500 lbs.	Gooseneck towing capacity	12500 lbs.
Towing capacity	12500 lbs.	GCWR	19500 lbs.

Fuel Tank type

Capacity	34 gal.
----------------	---------

Off Road

Approach angle	18 deg	Departure angle	22 deg
Ramp breakover angle	23 deg	Min ground clearance	8 "

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Prepared for: Mr. D VENEMA



CASCADE TWP FIRE

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01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

Selected Equip & Specs (cont'd)

Load floor height 38 "

Exterior cargo

Length 81.9 "
Volume 65.4 cu.ft.
Maximum width 66.9 "

Minimum width 50.5 "
Pickup box depth 21.1 "
Tailgate width 60.5 "

Interior cargo

Cargo volume 52.1 cu.ft.

Maximum cargo volume 52.1 cu.ft.

Powertrain

Engine Type

Block material Iron
Head material Aluminum
Injection Sequential MPI
Orientation Longitudinal
Valves per cylinder 2
Variable valve control Yes

Cylinders V-8
Ignition Spark
Liters 6.2L
Recommended fuel Regular unleaded
Valvetrain SOHC

Engine Spec

Bore 4.02"
Displacement 379 cu.in.

Compression ratio 9.8:1
Stroke 3.74"

Engine Power

SAEJ1349 AUG2004 compliant Yes
Torque 430 ft.-lb @ 3,800 RPM

Output 385 HP @ 5,750 RPM

Alternator

* Type HD

* Amps 200

Battery

Amp hours 72
Run down protection Yes

Cold cranking amps 650

Transmission

Electronic control Yes
Overdrive Yes
Type Automatic

Lock-up Yes
Speed 6

Transmission Gear Ratios

1st 4.17
3rd 1.52
5th 0.87
Reverse Gear ratios 3.4

2nd 2.34
4th 1.14
6th 0.69

Transmission Torque Converter

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CASCADE TWP FIRE

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01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

Selected Equip & Specs (cont'd)

Stall ratio 2.01

Transmission Extras

Driver selectable mode Yes
Oil cooler Regular duty

Sequential shift control SelectShift

Drive Type

4wd type Part-time

Type Four-wheel

Drive Feature

Traction control ABS and driveline
Transfer case shift Electronic

Locking hub control Auto

Drive Axle

Ratio 3.73

Exhaust

Material Stainless steel

System type Single

Emissions

CARB Federal

Fuel Economy

Fuel type Gasoline

Fuel Economy (Alternate 1)

Fuel type E85

Acceleration

0-60 mph (s) 6.77

1/4 Mile

Seconds 15.2

Speed 91 mph

Skid Pad

Lateral acceleration (g) 0.6

Slalom

Speed 50 mph

Driveability

Brakes

ABS 4-wheel
Type 4-wheel disc

ABS channels 4
Vented discs Front and rear

Brake Assistance

Brake assist Yes

Hill hold control Yes

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CASCADE TWP FIRE

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01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

Selected Equip & Specs (cont'd)

Suspension Control

Ride Firm Electronic stability control Stability control with anti-roll

Front Suspension

Independence Mono-beam non-independent Anti-roll bar Regular

Front Spring

Type Coil Grade Regular

Front Shocks

Type HD

Rear Suspension

Independence Rigid axle Type Leaf

Rear Spring

Type Leaf Grade HD

Rear Shocks

Type HD

Steering

Activation Hydraulic power-assist Type Re-circulating ball

Steering Specs

of wheels 2

Exterior

Front Wheels

* Diameter 18" * Width 8.00"

Rear Wheels

* Diameter 18" * Width 8.00"

Spare Wheels

Wheel material Steel

Front and Rear Wheels

* Appearance Silver * Material Aluminum

* Covers Chrome hub

Front Tires

* Aspect 65 * Diameter 18"

Sidewalls BSW Speed S

Tread AS Type LT

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Prepared for: Mr. D VENEMA

CASCADE TWP FIRE

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01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

**2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)**

Price Level: 115 | Quote ID: cascadetwp

Selected Equip & Specs (cont'd)

* Width	275mm	LT load rating	E
* RPM	646		

Rear Tires

* Aspect	65	* Diameter	18"
Sidewalls	BSW	Speed	S
Tread	AS	Type	LT
* Width	275mm	LT load rating	E
* RPM	646		

Spare Tire

Mount	Underbody w/crankdown	Type	Full-size
-------------	-----------------------	------------	-----------

Wheels

Front track	68.3"	Rear track	67.2"
Turning radius	26.5'	Wheelbase	160.0"

Body Features

* Running boards	Yes	* Skid plate(s)	2
Body material	Aluminum	Side impact beams	Yes
Front tow hook(s)	2		

Body Doors

Door count	4	Left rear passenger	Conventional
Right rear passenger	Conventional	Rear cargo	Tailgate

Pickup

Box style	Regular	Bed-rail protectors	Yes
-----------------	---------	---------------------------	-----

Exterior Dimensions

Length	250.0"	Body width	80.0"
Body height	81.5"	Cab to axle	39.9"
Frame section modulus	10.7cu.in.	Frame yield strength (psi)	50000.0
Front bumper to Front axle	38.2"	Front bumper to back of cab	151.8"

Safety**Airbags**

Driver front-impact	Yes	Driver side-impact	Seat mounted
Overhead	Safety Canopy System curtain 1st and 2nd row	Passenger front-impact	Yes
Passenger side-impact	Seat mounted		

Seatbelt

Rear centre 3 point	Yes	Height adjustable	Front
---------------------------	-----	-------------------------	-------

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Prepared for: Mr. D VENEMA



CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

Selected Equip & Specs (cont'd)

Security

Immobilizer	SecuriLock	* Panic alarm	Yes
Restricted driving mode	MyKey		

Seating

Passenger Capacity

* Capacity	5
-------------------------	----------

Front Seats

* Split	Buckets	* Type	Bucket
----------------------	----------------	---------------------	---------------

Driver Seat

Fore/aft	Manual	Reclining	Manual
Way direction control	4	Lumbar support	Manual

Passenger seat

Fore/aft	Manual	Reclining	Manual
Way direction control	4		

Front Head Restraint

Control	Manual	Type	Adjustable
---------------	--------	------------	------------

Rear Seats

Descriptor	Split-bench	Facing	Front
Folding	60-40	Folding position	Fold-up cushion
Type	Fixed		

Rear Head Restraints

Control	Manual	Type	Adjustable
Number	3		

Front Seat Trim

Material	Vinyl	Back material	Vinyl
----------------	-------	---------------------	-------

Rear Seat Trim Group

Material	Vinyl	Back material	Carpet
----------------	-------	---------------------	--------

Convenience

AC And Heat Type

Air conditioning	Manual	Air filter	Yes
Underseat ducts	Yes		

Audio System

Radio	AM/FM stereo	Radio grade	Regular
-------------	--------------	-------------------	---------

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01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

Selected Equip & Specs (cont'd)

Seek-scan	Yes	* External memory control	SYNC 3
<i>Audio Speakers</i>			
Speaker type	Regular	Speakers	4
<i>Audio Controls</i>			
Steering wheel controls	Yes	Voice activation	Yes
Streaming audio	Bluetooth yes		
<i>Audio Antenna</i>			
Type	Fixed		
<i>LCD Monitors</i>			
1st row	2	* Primary monitor size (inches)	8
<i>Cruise Control</i>			
* Cruise control With steering wheel controls			
<i>Convenience Features</i>			
* Retained accessory power	Yes	12V DC power outlet	2
* Emergency SOS	SYNC 3 911 Assist	Wireless phone connectivity	Bluetooth
* Smart device integration	Mirroring	* Upfitter switches	Yes
<i>Door Lock Activation</i>			
* Type	Power with 2 stage unlock	* Remote	Keyfob (all doors)
* Integrated key/remote	Yes		
<i>Door Lock Type</i>			
* Tailgate/rear door lock ... Included with power door locks			
<i>Door Locks Extra FOB Controls</i>			
* Remote engine start	Keyfob and smart device		
<i>Instrumentation Type</i>			
* Display	Digital/analog	* Configurable	Yes
<i>Instrumentation Gauges</i>			
Tachometer	Yes	Oil pressure	Yes
Engine temperature	Yes	Transmission fluid temp	Yes
Engine hour meter	Yes		
<i>Instrumentation Warnings</i>			
Oil pressure	Yes	Engine temperature	Yes
Battery	Yes	Lights on	Yes

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01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

Selected Equip & Specs (cont'd)

Key	Yes	Low fuel	Yes
Door ajar	Yes	Service interval	Yes
Brake fluid	Yes	Low tire pressure	Tire specific

Instrumentation Displays

Clock	In-radio display	Compass	Yes
Exterior temp	Yes	Systems monitor	Yes
Camera(s) - rear	Yes		

Instrumentation Feature

Trip computer	Yes	Trip odometer	Yes
* Parking sensors	Rear		

Steering Wheel Type

Material	Urethane	Tilting	Manual
Telescoping	Manual		

Front Side Windows

* **Window 1st row activation** **Power**

Windows Rear Side

* **2nd row activation** **Power**

Window Features

* 1-touch down	Driver and passenger	* 1-touch up	Driver and passenger
Tinted	Light		

Front Windshield

Wiper

Variable intermittent

Rear Windshield

Window

Fixed

Interior

Passenger Visor

Mirror

Yes

Rear View Mirror

Day-night

Yes

Headliner

Coverage	Full	Material	Cloth
----------------	------	----------------	-------

Floor Trim

Coverage	Full	* Covering	Carpet
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Prepared for: Mr. D VENEMA



CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

Selected Equip & Specs (cont'd)

* **Mats** **Carpet front and rear**

Trim Feature

Gear shifter material Urethane Interior accents Chrome

Lighting

Dome light type Fade Front reading Yes

* **Illuminated entry** **Yes** Rear reading Yes

Variable IP lighting Yes

Floor Console Storage

* **Storage** **Yes** * **Type** **Partial**

Overhead Console Storage

Storage Yes Type Full

Storage

* **Driver door bin** **Yes** Front Beverage holder(s) Yes

Glove box Locking * **Passenger door bin** **Yes**

Illuminated Yes Rear yes Yes

Instrument panel Covered bin Dashboard Yes

* **Rear door bins** **Yes**

Legroom

Front 43.9" Rear 43.6"

Headroom

Front 40.8" Rear 40.4"

Hip Room

Front 62.5" Rear 64.7"

Shoulder Room

Front 66.7" Rear 65.9"

Interior Volume

Passenger volume 131.7 cu.ft.

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Prepared for: Mr. D VENEMA



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01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: cascadetwp

Warranty

Standard Warranty

Basic

Distance 36,000 miles Months 36 months

Powertrain

Distance 60,000 miles Months 60 months

Corrosion Perforation

Distance Unlimited miles Months 60 months

Roadside Assistance

Distance 60,000 miles Months 60 months

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Prepared for: Mr. D VENEMA, CASCADE TWP FIRE
2865 THORNHILLS AVE SE
GRAND RAPIDS, MI 49546
Office: 616-949-1320
Email: dvenema@cascadetwp.com

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115



Client Proposal

Prepared by:
Tod Tobin
Office: 616-710-2209
Email: ttobin@borgmanfordmazda.com
Quote ID: 21f250vred
Date: 01/14/2021



Prepared for: Mr. D VENEMA

CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021



Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

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Prepared for: Mr. D VENEMA



CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

Pricing Summary - Single Vehicle

	MSRP
<i>Vehicle Pricing</i>	
Base Vehicle Price	\$40,620.00
Options & Colors	\$4,525.00
Upfitting	\$0.00
Destination Charge	\$1,695.00
Subtotal	\$46,840.00
<i>Pre-Tax Adjustments</i>	
Code	Description
GOVT KIZ 5/17	BORGMAN FORD / GOVT PRICING
	-\$11,089.00
<small>Cascade Twp Fire Govt Pricing along with Borgman Ford Discount</small>	
Total	\$35,751.00

Customer Signature

Acceptance Date

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Prepared for: Mr. D VENEMA

CASCADE TWP FIRE

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01/14/2021



Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

Major Equipment

(Based on selected options, shown at right)

6.2L V-8 SOHC w/SMPI 385hp
TorqShift-G 6 speed automatic w/OD

- * 4-wheel ABS
- * Traction control
- * Battery with run down protection
- * Advance Trac w/Roll Stability Control
- * Tinted glass
- * Bluetooth streaming audio
- * Dual power remote heated mirrors
- * 18 x 8 aluminum wheels
- * Driver and front passenger seat mounted side airbags
- * Tachometer
- * Underseat ducts
- * 60-40 folding rear split-bench
- * Audio control on steering wheel
- * Front axle capacity: 6000 lbs.
- * Front spring rating: 4800 lbs.
- * Frame section modulus: 10.7 cu.in.
- * Cab to axle: 39.9"

Exterior: Vermillion Red
Interior: Medium Earth Gray

- * Brake assistance
- * LT 275/65R18 E BSW AS S-rated tires
- * Firm suspension
- * Air conditioning
- * AM/FM stereo with seek-scan, external memory control
- * Daytime running
- * Variable intermittent wipers
- * Dual front airbags
- * SecuriLock immobilizer
- * Message Center
- * Reclining front bucket seats
- * Running boards
- * Class V hitch
- * Rear axle capacity: 6200 lbs.
- * Rear spring rating: 6340 lbs.
- * Frame Yield Strength 50000 psi

Fuel Economy

As Configured Vehicle

MSRP

STANDARD VEHICLE PRICE	\$40,620.00
Order Code 600A	N/C
160" Wheelbase	STD
Monotone Paint Application	STD
50-State Emissions System	STD
Vinyl 40/Mini-Console/40 Front Seat (Fleet)	\$355.00
Fleet Advertising Credit	\$0.00
Power Equipment Group	\$1,075.00
Platform Running Boards	\$445.00
Upfitter Switches (6)	\$165.00
Vermillion Red	\$660.00
Medium Earth Gray	N/C
Engine: 6.2L 2-Valve SOHC EFI NA V8 Flex-Fuel	Included
Transmission: TorqShift-G 6-Spd Auto w/SelectShift	Included
3.73 Axle Ratio	Included
GVWR: 10,000 lb Payload Package	Included
Radio: AM/FM Stereo w/MP3 Player	Included
SYNC Communications & Entertainment System	Included
STX Appearance Package	\$1,825.00

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01/14/2021



Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

Major Equipment

City
N/A



Hwy
N/A

As Configured Vehicle

MSRP

- Wheels: 18" Sparkle Silver Painted Cast Aluminum . . . Included
- Tires: LT275/65Rx18E BSW A/S Included
- Bright Chrome Hub Covers & Center Ornaments Included
- Chrome Front Bumper Included
- Chrome Rear Step Bumper Included
- Accessory Delay Included
- Trailer Tow Mirrors w/Power Heated Glass Included
- Advanced Security Pack Included
- Power Locks Included
- Power Tailgate Lock Included
- Power Front & Rear Seat Windows Included
- Remote Keyless Entry Included
- 200 Amp Alternator Included
- Bright Chrome Grille Included
- Steering Wheel-Mounted Cruise Control Included
- Fleet Final Order Date: 02/18/2021 N/C

SUBTOTAL \$45,145.00
 Destination Charge \$1,695.00

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Prepared for: Mr. D VENEMA

CASCADE TWP FIRE

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01/14/2021



Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

<i>As Configured Vehicle</i>	MSRP
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TOTAL	\$46,840.00
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Prepared for: Mr. D VENEMA

CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418



2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

Selected Equip & Specs

Dimensions

• Exterior length: 250.0" • Cab to axle: 39.9" • Exterior width: 80.0" • Exterior height: 81.5" • Wheelbase: 160.0" • Front track: 68.3" • Rear track: 67.2" • Turning radius: 26.5' • Min ground clearance: 8.2" • Front legroom: 43.9" • Rear legroom: 43.6" • Front headroom: 40.8" • Rear headroom: 40.4" • Front hiproom: 62.5" • Rear hiproom: 64.7" • Front shoulder room: 66.7" • Rear shoulder room: 65.9" • Passenger volume: 131.7cu.ft. • Approach angle: 17.9 deg • Departure angle: 22.1 deg • Cargo volume: 52.1cu.ft. • Maximum cargo volume: 52.1cu.ft. • Box length: 81.9"

Powertrain

• 385hp 6.2L SOHC 16 valve V-8 engine with variable valve control, SMPI • Recommended fuel : regular unleaded • federal • TorqShift-G 6 speed automatic transmission with overdrive • Part-time • Fuel Economy Cty: N/A • Fuel Economy Highway: N/A

Suspension/Handling

• Front Mono-beam non-independent suspension with anti-roll bar, HD shocks • Rear rigid axle leaf spring suspension with HD shocks • Firm ride Suspension • Hydraulic power-assist re-circulating ball Steering * **Front and rear 18 x 8 silver aluminum wheels** * **LT275/65SR18 EBSW AS front and rear tires**

Body Exterior

• 4 doors • Conventional left rear passenger • Conventional right rear passenger * **Driver and passenger power remote heated, manual folding door mirrors with turn signal indicator** * **Turn signal indicator in mirrors** • Black door mirrors * **Chrome bumpers** * **Running boards** • Class V trailer hitch with trailer sway control • Bed-rail protectors • Trailer harness • Box style: regular • Clearcoat paint * **Front and rear 18 x 8 wheels** • 2 front tow hook(s)

Convenience

• Manual air conditioning with air filter * **Cruise control with steering wheel controls** * **Power windows** * **Driver and passenger 1-touch up** * **Driver and passenger 1-touch down** * **Remote power door locks with 2 stage unlock and illuminated entry** • Manual tilt steering wheel • Manual telescopic steering wheel • Day-night rearview mirror • FordPass Connect 4G internet access • Emergency SOS • Wireless phone connectivity • AppLink smart device integration • 2 1st row LCD monitors • Front and rear cupholders • Passenger visor mirror • Full overhead console * **Driver and passenger door bins** * **Rear door bins** * **Upfitter switches**

Seats and Trim

* **Seating capacity of 5** * **Front bucket seats** • 4-way driver seat adjustment • Manual driver lumbar support • 4-way passenger seat adjustment • 60-40 folding rear split-bench seat

Entertainment Features

• AM/FM stereo radio • SYNC external memory control • Steering wheel mounted radio controls • 4 speakers • Streaming audio • Fixed antenna

Lighting, Visibility and Instrumentation

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2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

Selected Equip & Specs (cont'd)

- Halogen aero-composite headlights • Delay-off headlights • Fully automatic headlights • Variable intermittent front windshield wipers • Light tinted windows • Front and rear reading lights • Tachometer • Oil pressure gauge • Compass • Outside temperature display • Camera(s) - rear • Low tire pressure warning • Trip computer • Trip odometer

Safety and Security

- 4-wheel ABS brakes • Brake assist with hill hold control • 4-wheel disc brakes • AdvanceTrac w/Roll Stability Control Electronic stability control • ABS and driveline traction control • Dual front impact airbag supplemental restraint system • Dual seat mounted side impact airbag supplemental restraint system • Safety Canopy System curtain 1st and 2nd row overhead airbag supplemental restraint system * **Remote activated perimeter/approach lighting** * **Power remote door locks with 2 stage unlock and panic alarm** * **Security system with SecuriLock immobilizer** • MyKey restricted driving mode • Manually adjustable front head restraints • 3 manually adjustable rear head restraints

Dimensions

General Weights

* Curb	6,542 lbs.	GVWR	10,000 lbs.
Payload	3,470 lbs.		

Front Weights

Front GAWR	4,800 lbs.	* Front curb weight	3,882 lbs.
Front axle capacity	6,000 lbs.	Front spring rating	4,800 lbs.
* Front tire/wheel capacity	7,050 lbs.		

Rear Weights

Rear GAWR	6,340 lbs.	* Rear curb weight	2,659 lbs.
Rear axle capacity	6,200 lbs.	Rear spring rating	6,340 lbs.
* Rear tire/wheel capacity	7,050 lbs.		

Trailer Type

Type	Regular	Harness	Yes
Class	V	Hitch	Yes
Trailer sway control	Yes		

General Trailering

5th-wheel towing capacity	12500 lbs.	Gooseneck towing capacity	12500 lbs.
Towing capacity	12500 lbs.	GCWR	19500 lbs.

Fuel Tank type

Capacity	34 gal.
----------------	---------

Off Road

Approach angle	18 deg	Departure angle	22 deg
Ramp breakover angle	23 deg	Min ground clearance	8 "
Load floor height	38 "		

Prepared for: Mr. D VENEMA

CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

Selected Equip & Specs (cont'd)*Exterior cargo*

Length	81.9 "	Minimum width	50.5 "
Volume	65.4 cu.ft.	Pickup box depth	21.1 "
Maximum width	66.9 "	Tailgate width	60.5 "

Interior cargo

Cargo volume	52.1 cu.ft.	Maximum cargo volume	52.1 cu.ft.
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Powertrain*Engine Type*

Block material	Iron	Cylinders	V-8
Head material	Aluminum	Ignition	Spark
Injection	Sequential MPI	Liters	6.2L
Orientation	Longitudinal	Recommended fuel	Regular unleaded
Valves per cylinder	2	Valvetrain	SOHC
Variable valve control	Yes		

Engine Spec

Bore	4.02"	Compression ratio	9.8:1
Displacement	379 cu.in.	Stroke	3.74"

Engine Power

SAEJ1349 AUG2004 compliant	Yes	Output	385 HP @ 5,750 RPM
Torque	430 ft.-lb @ 3,800 RPM		

Alternator

* Type	HD	* Amps	200
---------------------	-----------	---------------------	------------

Battery

Amp hours	72	Cold cranking amps	650
Run down protection	Yes		

Transmission

Electronic control	Yes	Lock-up	Yes
Overdrive	Yes	Speed	6
Type	Automatic		

Transmission Gear Ratios

1st	4.17	2nd	2.34
3rd	1.52	4th	1.14
5th	0.87	6th	0.69
Reverse Gear ratios	3.4		

Transmission Torque Converter

Stall ratio	2.01
-------------------	------

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Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

Selected Equip & Specs (cont'd)

Transmission Extras

Driver selectable mode Yes
Oil cooler Regular duty
Sequential shift control SelectShift

Drive Type

4wd type Part-time
Type Four-wheel

Drive Feature

Traction control ABS and driveline
Transfer case shift Electronic
Locking hub control Auto

Drive Axle

Ratio 3.73

Exhaust

Material Stainless steel
System type Single

Emissions

CARB Federal

fuel Economy

Fuel type Gasoline

Fuel Economy (Alternate 1)

Fuel type E85

Acceleration

0-60 mph (s) 6.77

1/4 Mile

Seconds 15.2
Speed 91 mph

Skid Pad

Lateral acceleration (g) 0.6

Slalom

Speed 50 mph

Driveability

Brakes

ABS 4-wheel
Type 4-wheel disc
ABS channels 4
Vented discs Front and rear

Brake Assistance

Brake assist Yes
Hill hold control Yes

Suspension Control

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Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

Selected Equip & Specs (cont'd)

Ride	Firm	Electronic stability control	Stability control with anti-roll
<i>Front Suspension</i>			
Independence	Mono-beam non-independent	Anti-roll bar	Regular
<i>Front Spring</i>			
Type	Coil	Grade	Regular
<i>Front Shocks</i>			
Type	HD		
<i>Rear Suspension</i>			
Independence	Rigid axle	Type	Leaf
<i>Rear Spring</i>			
Type	Leaf	Grade	HD
<i>Rear Shocks</i>			
Type	HD		
<i>Steering</i>			
Activation	Hydraulic power-assist	Type	Re-circulating ball
<i>Steering Specs</i>			
# of wheels	2		

Exterior

<i>Front Wheels</i>			
* Diameter	18"	* Width	8.00"
<i>Rear Wheels</i>			
* Diameter	18"	* Width	8.00"
<i>Spare Wheels</i>			
Wheel material	Steel		
<i>Front and Rear Wheels</i>			
* Appearance	Silver	* Material	Aluminum
* Covers	Chrome hub		
<i>Front Tires</i>			
* Aspect	65	* Diameter	18"
Sidewalls	BSW	Speed	S
Tread	AS	Type	LT
* Width	275mm	LT load rating	E

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01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

**2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)**

Price Level: 115 | Quote ID: 21f250vred

Selected Equip & Specs (cont'd)*** RPM 646****Rear Tires***** Aspect 65**

Sidewalls BSW

Tread AS

*** Width 275mm***** RPM 646***** Diameter 18"**

Speed S

Type LT

LT load rating E

Spare Tire

Mount Underbody w/crankdown

Type Full-size

Wheels

Front track 68.3"

Rear track 67.2"

Turning radius 26.5'

Wheelbase 160.0"

Body Features*** Running boards Yes**

Body material Aluminum

Side impact beams Yes

Front tow hook(s) 2

Body Doors

Door count 4

Left rear passenger Conventional

Right rear passenger Conventional

Rear cargo Tailgate

Pickup

Box style Regular

Bed-rail protectors Yes

Exterior Dimensions

Length 250.0"

Body width 80.0"

Body height 81.5"

Cab to axle 39.9"

Frame section modulus 10.7cu.in.

Frame yield strength (psi) 50000.0

Front bumper to Front axle 38.2"

Front bumper to back of cab 151.8"

Safety**Airbags**

Driver front-impact Yes

Driver side-impact Seat mounted

Overhead Safety Canopy System curtain 1st and 2nd row

Passenger front-impact Yes

Passenger side-impact Seat mounted

Seatbelt

Rear centre 3 point Yes

Height adjustable Front

Security

Immobilizer SecuriLock

*** Panic alarm Yes**

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01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

Selected Equip & Specs (cont'd)

Restricted driving mode MyKey

Seating

Passenger Capacity

* Capacity 5

Front Seats

* Split Buckets * Type Bucket

Driver Seat

Fore/aft Manual Reclining Manual
Way direction control 4 Lumbar support Manual

Passenger seat

Fore/aft Manual Reclining Manual
Way direction control 4

Front Head Restraint

Control Manual Type Adjustable

Rear Seats

Descriptor Split-bench Facing Front
Folding 60-40 Folding position Fold-up cushion
Type Fixed

Rear Head Restraints

Control Manual Type Adjustable
Number 3

Front Seat Trim

Material Vinyl Back material Vinyl

Rear Seat Trim Group

Material Vinyl Back material Carpet

Convenience

AC And Heat Type

Air conditioning Manual Air filter Yes
Underseat ducts Yes

Audio System

Radio AM/FM stereo Radio grade Regular
Seek-scan Yes External memory control SYNC

Audio Speakers

Speaker type Regular Speakers 4

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2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

Selected Equip & Specs (cont'd)

Audio Controls

Steering wheel controls	Yes	Voice activation	Yes
Streaming audio	Bluetooth yes		

Audio Antenna

Type	Fixed
------------	-------

LCD Monitors

1st row	2	Primary monitor size (inches)	4.2
---------------	---	-------------------------------------	-----

Cruise Control

*** Cruise control With steering wheel controls**

Convenience Features

* Retained accessory power	Yes	12V DC power outlet	2
Emergency SOS	Mobile device	Wireless phone connectivity	Bluetooth
Smart device integration	App link	* Upfitter switches	Yes

Door Lock Activation

* Type	Power with 2 stage unlock	* Remote	Keyfob (all doors)
* Integrated key/remote	Yes		

Door Lock Type

*** Tailgate/rear door lock ... Included with power door locks**

Door Locks Extra FOB Controls

Remote engine start	Smart device only
---------------------------	-------------------

Instrumentation Type

Display	Analog
---------------	--------

Instrumentation Gauges

Tachometer	Yes	Oil pressure	Yes
Engine temperature	Yes	Transmission fluid temp	Yes
Engine hour meter	Yes		

Instrumentation Warnings

Oil pressure	Yes	Engine temperature	Yes
Battery	Yes	Lights on	Yes
Key	Yes	Low fuel	Yes
Door ajar	Yes	Service interval	Yes
Brake fluid	Yes	Low tire pressure	Tire specific

Instrumentation Displays

Clock	In-radio display	Compass	Yes
-------------	------------------	---------------	-----

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2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

Selected Equip & Specs (cont'd)

Exterior temp Yes Systems monitor Yes
Camera(s) - rear Yes

Instrumentation Feature

Trip computer Yes Trip odometer Yes

Steering Wheel Type

Material Urethane Tilting Manual
Telescoping Manual

Front Side Windows

* Window 1st row activation Power

Windows Rear Side

* 2nd row activation Power

Window Features

* 1-touch down Driver and passenger * 1-touch up Driver and passenger
Tinted Light

Front Windshield

Wiper Variable intermittent

Rear Windshield

Window Fixed

Interior

Passenger Visor

Mirror Yes

Rear View Mirror

Day-night Yes

Headliner

Coverage Full Material Cloth

Floor Trim

Coverage Full Covering Vinyl/rubber

Trim Feature

Gear shifter material Urethane Interior accents Chrome

Lighting

Dome light type Fade Front reading Yes
* Illuminated entry Yes Rear reading Yes
Variable IP lighting Yes

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Prepared by: Tod Tobin

01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

Selected Equip & Specs (cont'd)

Floor Console Storage

* Storage Yes * Type Partial

Overhead Console Storage

Storage Yes Type Full

Storage

* Driver door bin Yes Front Beverage holder(s) Yes

Glove box Locking * Passenger door bin Yes

Illuminated Yes Rear yes Yes

Instrument panel Covered bin Dashboard Yes

* Rear door bins Yes

Legroom

Front 43.9" Rear 43.6"

Headroom

Front 40.8" Rear 40.4"

Hip Room

Front 62.5" Rear 64.7"

Shoulder Room

Front 66.7" Rear 65.9"

Interior Volume

Passenger volume 131.7 cu.ft.

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Prepared for: Mr. D VENEMA



CASCADE TWP FIRE

Prepared by: Tod Tobin

01/14/2021

Borgman Ford Fleet | 3150 28th St SW Grandville Michigan | 49418

2021 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 115 | Quote ID: 21f250vred

Warranty

Standard Warranty

Basic

Distance 36,000 miles Months 36 months

Powertrain

Distance 60,000 miles Months 60 months

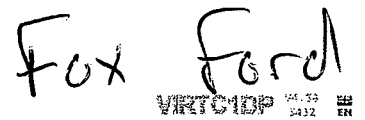
Corrosion Perforation

Distance Unlimited miles Months 60 months

Roadside Assistance

Distance 60,000 miles Months 60 months

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.



V1DP0037 01.29 2412 EN

CNGP530

VEHICLE ORDER CONFIRMATION

01/12/21 15:27:54

==>

Dealer: F48072

2021 F-SERIES SD

Page: 1 of 2

Order No: 0101 Priority: 80

Order Type: 2 Price Level: 115

Ord PEP: 603A Cust/Flt Name:

PO Number:

RETAIL

RETAIL

W2B F250 4X4 CREW/C \$46300

17X FX4 OFF-ROAD PK \$400

160" WHEELBASE

.SKID PLATES

PQ RACE RED

10000# GVWR PKG

3 40/20/40 CLOTH

425 50 STATE EMISS NC

S MEDIUM EARTH GR

512 SPARE TIRE/WHL2 NC

603A PREF EQUIP PKG

54F PWRSCOPE TT MIR 280

.XLT TRIM

592 ROOF CLEAR LGTS 95

.AMFM/MP3/CLK

JACK

996 .6.2L EFI V8 ENG NC

44S 6-SPD AUTOMATIC NC

TOTAL BASE AND OPTIONS 49815

TDU LT275/700WLAT18 290

TOTAL 49815

X3E 3.73 ELOCKING 390

THIS IS NOT AN INVOICE

JOB #1 BUILD

* MORE ORDER INFO NEXT PAGE *

TRAILER TOW PKG

166 CARPET DELETE (50)

F8=Next

F1=Help F2=Return to Order

F3/F12=Veh Ord Menu

F4=Submit F5=Add to Library

S006 - MORE DATA IS AVAILABLE.

QC060691

V1DP0037

2,6

CNGP530

VEHICLE ORDER CONFIRMATION

01/12/21 15:28:00

==>

Dealer: F48072

2021 F-SERIES SD

Page: 2 of 2

Order No: 0101 Priority: 80
Ord PEP: 603A Cust/Flt Name:

Order Type: 2 Price Level: 115
PO Number:

RETAIL

RETAIL

66S UPFITTER SWCH \$165
67D 200/240 AMP ALT NC
76S REMOTE START 250
FUEL CHARGE
DEST AND DELIV 1695

TOTAL BASE AND OPTIONS 49815

TOTAL 49815

THIS IS NOT AN INVOICE

F7=Prev

F1=Help

F2=Return to Order

F3/F12=Veh Ord Menu

F4=Submit

F5=Add to Library

S099 - PRESS F4 TO SUBMIT

QC060691

V1DP0037

2,6

\$ 37772 After current incentives

base #'s

Add for

7.3L V8

10 speed auto > \$1861

Preder

*Bedliner * 595*

Adjust. pedals 109

Fog lamps 119

Lane depart warning 104

wheel well liners

Front \$164

rear \$164

both \$328

eng. block heater 91

rapid heat 228

XL Premium 2726

XL Valve 1347

running boards 405

vehicle safe 301

Vermillion Red \$600

Great Lakes Upfitting
 11555 Crossing Ct
 Suite 100
 Holland, MI 49424



Quote

Date	Quote No.
1/15/2021	20-221

Bill To
Cascade Fire Attn: Zeke Kadish

Ship To

*****Our No-Hassle Warranty*****
 Full Support of Manufacturers Parts
 Warranty
 Five-Year Workmanship Warranty

Terms	Account #	Project
Net 30		

Item	Description	Qty	Rate	Amount
SOS ENFLB004M1-0UF	SOS 54"/137cm 12 VOLT NFORCE LED LIGHTBAR W/ LIN DSC TECHNOLOGY /D24/D12/D12/D12/D12/D12/D12/D12/D24\ /R_W/ R_W R_W R_W R_W R_W R_W R_W R_W\ A --GRT-- --GRT--- GRT --GRT--- Q--GRT-- A A --CLR-- --CLR--- CLR --CLR--- Q--CLR-- A \D24\ D12 D12 D12 D12 D12 D12 D12 /D24/ \R_W\R_A R_A R_A R_A R_A R_A R_A/R_W/ Material - Lexan [12 6 12] Accessories - QUICK CONNECT, PNFLBSPLT1, AUTO-DIM Mount - Standard Fixed Height Mount (PNFLBK06) Hook - PNFLBF33 Vehicle - Chevrolet Silverado (2019.5-20) REAR MINI-BAR ON TOPPER (RED/WHITE, RED WARNING, WHITE STEADY-BURN ON REVERSE AND SIDE SCENE LIGHTING)	1	2,070.98	2,070.98T

1. All Sales Estimates are Confidential and Proprietary between Great Lakes Upfitting and its Customers Only. 2. Quoted Pricing is Valid for 30 Days from Date of Quote, Unless Otherwise Agreed. 3. Our Warranty - Great Lakes Upfitting Purchased Parts for the Manufacturers Warranty Term and Workmanship for 5 Years.	Subtotal
	Sales Tax (0.0%)
	Total

Signature

Great Lakes Upfitting
 11555 Crossing Ct
 Suite 100
 Holland, MI 49424



Quote

Date	Quote No.
1/15/2021	20-221

Bill To
Cascade Fire Attn: Zeke Kadish

Ship To

*****Our No-Hassle Warranty*****
*Full Support of Manufacturers Parts
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 Five-Year Workmanship Warranty*

Terms	Account #	Project
Net 30		

Item	Description	Qty	Rate	Amount
SOS ENRMB00A65	SOS 17"/43cm 9-32V NROADS LED SGL STACK MINIBAR / NNN NNN \ / NNN NNN \ D12 CLR CLR D12 R_W -D - --- R_W \ D12 D12 / \ R_W R_W / WIRING - Direct Connect MOUNT - Std Fixed Height Mount (PNRLBK00)	1	306.50	306.50T
SOS EMPSC07MB-9	SECONDARY LIGHTING SOS 7"x3" mpower with Screw Mount 36 LED 9-32 Volt SAE with 1.5' Pigtail Clear Housing/Lens RED/GRN/WHT (GRILLE)	2	237.50	475.00T
SOS PMP8BZL01C	SOS Chrome Single Bezel (includes gasket) - for use with mpower® 7x3 Lights	2	15.00	30.00T
SOS EMPS2QMS4D	mpower 4" Fascia Light w/ Quick Mount, 18" hard wire w/ sync option, SAE Class 1 & CA Title 13, 9-32 Vdc, Black Housing, 12 LED, Dual Color - Red/White (ABOVE FRONT WHEEL)	2	98.00	196.00T

Subtotal
Sales Tax (0.0%)
Total

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 Suite 100
 Holland, MI 49424



Quote

Date	Quote No.
1/15/2021	20-221

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Cascade Fire Attn: Zeke Kadish

Ship To

*****Our No-Hassle Warranty*****
 Full Support of Manufacturers Parts
 Warranty
 Five-Year Workmanship Warranty

Terms	Account #	Project
Net 30		

Item	Description	Qty	Rate	Amount
SOS EMPS2QMS4D	mpower 4" Fascia Light w/ Quick Mount, 18" hard wire w/ sync option, SAE Class 1 & CA Title 13, 9-32 Vdc, Black Housing, 12 LED, Dual Color - Red/White (LOWER REAR QUARTER PANEL)	2	98.00	196.00T
SOS EMPSC07MB-9	SOS 7"x3" mpower with Screw Mount 36 LED 9-32 Volt SAE with 1.5' Pigtail Clear Housing/Lens RED/GRN/WHT (REAR TAILGATE)	2	237.50	475.00T
SOS PMP8BZL01C	SOS Chrome Single Bezel (includes gasket) - for use with mpower® 7x3 Lights	2	15.00	30.00T
SOS ETHFSS-FV	Select-A-Pattern Headlight Flasher, Solid State, 12v Isolation Model (WITH LOOMED, LONG LEADS)	1	42.00	42.00T
SOS ETFBSSN-P	Flashback Alternating Taillight Flasher, Solid State - 2.4 f.p.s.	1	38.50	38.50T
SOS EMPS2QMS4D	mpower 4" Fascia Light w/ Quick Mount, 18" hard wire w/ sync option, SAE Class 1 & CA Title 13, 9-32 Vdc, Black Housing, 12 LED, Dual Color - Red/White (UNDERMIRROR)	2	98.00	196.00T
SOS ENGCC01243	SIREN & CONTROL SYSTEM bluePRINT® 3 Central Controller - Communication Hub for use within the EV Control System - 1 Active High Ignition Input, 24 Outputs (100 Amps max)	1	318.50	318.50T
SOS ENGCP18002	SOS bluePRINT® Remote Control Panel - 15 Programmable Buttons w/ Knob Control	1	218.08	218.08T

Subtotal
Sales Tax (0.0%)
Total

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Signature

Great Lakes Upfitting
 11555 Crossing Ct
 Suite 100
 Holland, MI 49424



Quote

Date	Quote No.
1/15/2021	20-221

Bill To
Cascade Fire Attn: Zeke Kadish

Ship To

*****Our No-Hassle Warranty*****
 Full Support of Manufacturers Parts
 Warranty
 Five-Year Workmanship Warranty

Terms	Account #	Project
Net 30		

Item	Description	Qty	Rate	Amount
SOS ENGHNK04	15 ft Harness Kit for Central Controller	1	80.00	80.00T
SOS ENGSA07152	bluePRINT® 400 Series Remote Siren/Switch Module, 10-16v - for two 100 watt speakers, with Nine 10-Amp & Three 20-Amp Relay Outputs	1	336.50	336.50T
SOS ENGLNK004	bluePRINT Link® Module for Chevrolet Express & GMC Savana Vans 2008-2019; Tahoe (2014-2020); Silverado & Sierra Pickup Truck (2014-2019); Suburban & Yukon (2014-2020)	1	246.00	246.00T
SOS ETSS100J	100J Series Composite Speaker w/ Universal Bail Bracket - 100 watt	2	125.00	250.00T
SOS ETSSVBK02	SOS 100N/100J Series Speaker Bracket (only - no drill) for the Chevrolet Silverado 1500 2019.5 - 2020, Bumper Mount/Driver Side	1	10.00	10.00T
SOS ETSSVBK03	SOS 100N/100J Series Speaker Bracket (only - no drill) for the Chevrolet Silverado 1500 2019.5 - 2020, Bumper Mount/Passenger Side	1	10.00	10.00T
SOS ETSKLF100	LF Aftershock Siren System, includes: 100 Watt Speaker, 200 Watt Amplifier and Universal Bracket	1	384.50	384.50T
SOS ETSSLFVNK10	SOS Frame Mount Bracket (no drill) for the Aftershock Low Frequency Speaker for installation on Chevrolet Silverado 1500 SSV (VIN starts with 1G) 2019.5 - 2020, mounts 2 speakers	1	23.00	23.00T
SOS ENGND04101	bluePRINT Remote Node, 4 Active High/Low Inputs, 10 Outputs (50 Amps max)	1	179.00	179.00T

Subtotal

Sales Tax (0.0%)

Total

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Great Lakes Upfitting
 11555 Crossing Ct
 Suite 100
 Holland, MI 49424



Quote

Date	Quote No.
1/15/2021	20-221

Bill To
Cascade Fire Attn: Zeke Kadish

Ship To

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 Warranty
 Five-Year Workmanship Warranty

Terms	Account #	Project
Net 30		

Item	Description	Qty	Rate	Amount
SOS ENGHNK03	SOS 10 ft Harness Kit for Remote Node	1	65.00	65.00T
GAMBERJ 7170-0784-04	CONSOLE Gamber Johnson 2019+ Chevy Silverado/GMC Sierra 1500 Console with Internal Cup Holder, Side Armrest, Wiring Chase, and Mongoose Motion Attachment Kit	1	812.46	812.46T
GAMBERJ 7160-0250	Gamber Johnson NotePad™ V Universal Computer Cradle	1	256.74	256.74T
KUSSMAUL KM-091-237...	AUTO-CHARGER KUSSMAUL Auto Charge 2000 PLC	1	711.62	711.62T
KUSSMAUL KM-091	Kussmaul Standard Auto-Eject (15 Amps, Red)	1	224.14	224.14T
BEDSLIDE #1500	BED SLIDE-OUT Bedslide #1500 Capacity, 2020 F250	1	1,846.83	1,846.83T
GLU Installation Shop Supplies	INSTALLATION LABOR & SHOP MATERIALS/SUPPLIES Installation Services - Installation Labor & Materials Shop Supplies		2,600.00 384.00	2,600.00 384.00
Vehicle Graphics	GRAPHICS DESIGN & INSTALLATION Vehicle Graphics - Parts & Labor - Custom Design, NFPA Compliant		2,200.00	2,200.00T

Subtotal	\$15,212.35
Sales Tax (0.0%)	\$0.00
Total	\$15,212.35

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3. Our Warranty - Great Lakes Upfitting Purchased Parts for the Manufacturers Warranty Term and Workmanship for 5 Years.

Signature _____

1/13/2021

IMS2 CNGP530 VEHICLE ORDER CON

VIRTC1DP V4.59 #

CNGP530 VEHICLE ORDER CONFIRMATION 01/13/21 15:33:40
 ==> Dealer: F48071
 Page: 1 of 2
 2021 F-SERIES SD
 Order No: 9999 Priority: D1 Ord FIN: QH814 Order Type: 5B Price Level: 115
 Ord PEP: 600A Cust/Flt Name: CASCADE TWP F PO Number:
 RETAIL RETAIL
 W2B F250 4X4 CREW/C \$40620 TRAILER TOW PKG
 160" WHEELBASE FLEET SPCL ADJ NC
 PQ RACE RED 17S STX APPEAR PKG 1825
 A VNYL 40/20/40 .CRUISE CONTROL
 S MEDIUM EARTH GR .BRIGHT GRILLE
 600A PREF EQUIP PKG .CST ALUMINUM-18
 .XL TRIM 17X FX4 OFF-ROAD PK 400
 .AIR CONDITIONER NC .SKID PLATES
 .AMFM/MP3/CLK
 996 .6.2L EFI V8 ENG NC TOTAL BASE AND OPTIONS 47280
 44S 6-SPD AUTOMATIC NC TOTAL 47280
 TDU LT275/700WLAT18 290 *THIS IS NOT AN INVOICE*
 X3E 3.73 ELOCKING 390
 90L PWR EQUIP GROUP 1075 * MORE ORDER INFO NEXT PAGE *
 JOB #1 BUILD F8=Next
 F1=Help F2=Return to Order F3/F12=Veh Ord Menu
 F4=Submit F5=Add to Library
 S006 - MORE DATA IS AVAILABLE. QC09835

V1DP1074 2,6

1/13/2021

IMS2 CNGP530 VEHICLE ORDER CON

VIRTCDP V5.50 5432

CNGP530 VEHICLE ORDER CONFIRMATION 01/13/21 15:33:56
==> Dealer: F48071

2021 F-SERIES SD

Page: 2 of 2

Order No: 9999 Priority: D1 Ord FIN: QH814 Order Type: 5B Price Level: 115

Ord PEP: 600A Cust/Flt Name: CASCADE TWP F PO Number:

RETAIL RETAIL
18B PLAT RUNNING BD \$445 DEST AND DELIV \$1695

10000# GVWR PKG
425 50 STATE EMISS NC TOTAL BASE AND OPTIONS 47280
512 SPARE TIRE/WHL2 NC TOTAL 47280

52B BRAKE CONTRLLR 270 *THIS IS NOT AN INVOICE*
TELE TT MIR-PWR
JACK

66L LED BOX LIGHT 60 \$ 34,574 complete

66S UPFITTER SWITCH 165 Per Truck

67D 200/240 AMP ALT NC
942 DAY RUNNING LTS 45

SP DLR ACCT ADJ
SP FLT ACCT CR
FUEL CHARGE

B4A NET INV FLT OPT NC

F1=Help F2=Return to Order

F4=Submit F5=Add to Library

S099 - PRESS F4 TO SUBMIT

F7=Prev F3/F12=Veh Ord Menu

QC09835

V1DP1074

2,6

https://www.fmcdealer.v3270.ford.com/w2h/WEB2AJAX.htm+IMS2

1/1

Scanned with CamScanner

+600 (Red)
+1825
\$36,999

STAFF REPORT

TO: Cascade Charter Township Board
FROM: Steve Peterson, Community Development Director
REPORT DATE: January 15, 2021
MEETING DATE: January 27, 2021
CASE: #19-3519/ Golden Valley

GENERAL INFORMATION

- A. Applicant: Don Kamphuis
6115 28th St
Grand Rapids MI 49546
Telephone: 291-4070
Email: dank@kpc4.com
- B. Status of Applicant: Owner
- C. General Location: The property is located on the north east corner of Thornapple River Dr and 60th.
- D. Requested Action: final plan approval for phase 2 of Golden Valley.
- E. Existing Zoning on Subject Parcels: R1
- F. Zoning on Adjoining Parcels: R1/ARC
- G. Adjacent Area Land Uses: Residential

STAFF ANALYSIS

1. The applicant has now completed construction of phase 2 of the subdivision and is now seeking final approval.
2. Phase 2 consists of 15 single family home sites. As a reminder, the project originally came in as one large project of 27 units. It was subdivided into two phases when the KCHD would only approve phase 1 for the common septic system. After receiving approval for the modified septic system they proceeded with phase 2.
3. This is the final step in the approval process for a by-right subdivision.
4. You awarded final preliminary approval in August 2020.

STAFF RECOMMENDATION

Staff recommends Final approval

Attachments: TB final preliminary approval letter
Subdivision plans
Letter from Twp engineer.

January 20, 2021
Project No. 170168

Steve Peterson, AICP
Community Development Director
Cascade Charter Township
2865 Thornhills Avenue, SE
Grand Rapids, MI 49546

Golden Valley Estates As-Built Stormwater Plan Review

Dear Steve:

We have reviewed the as-built stormwater plan for Golden Valley Estates, prepared by Exxel Engineering, Inc. The development is located at the northeast corner of the intersection between 60th Street and Thornapple River Drive. The as-built plan is dated January 12, 2021. The project is a 27-lot site condominium development with private streets. The site is in the Thornapple River watershed, subdrainage district GRFIA Southeast.

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 primarily 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. 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 stormwater management design is to collect stormwater runoff from the site in three detention ponds. Based on soil boring findings and infiltration test results, stormwater infiltration was not feasible. Therefore, the detention basins were designed for the 25-year storm event and a restricted release rate of 0.13 cfs/acre. The detention basins discharge to an existing creek on the north and east side of the development.

As-built stormwater plans were provided by the applicant. The applicant indicated two detention basins were originally constructed undersized and the outlet control structures built at incorrect elevations. Exxel designed a fix to bring the detention basins into compliance and the improvements have been completed. Based on the revised stormwater calculations and as-built plans, it appears the detention basins are in compliance with the Township Stormwater Ordinance.

Several of the storm sewer pipes have as-built invert elevations and slopes slightly different from the original plan. However, this is common to see. Review of the as-built storm sewer information reveals these slight differences should not impact the overall function of the storm sewer system.

Summary

The as-built stormwater plans for the development meets the Township SWO requirements for new developments. If you have any questions or require additional information, please contact me at 616.464.3786 or ntorrey@fishbeck.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'N. Torrey', with a stylized flourish at the end.

Nathan R. Torrey, PE

Senior Civil Engineer

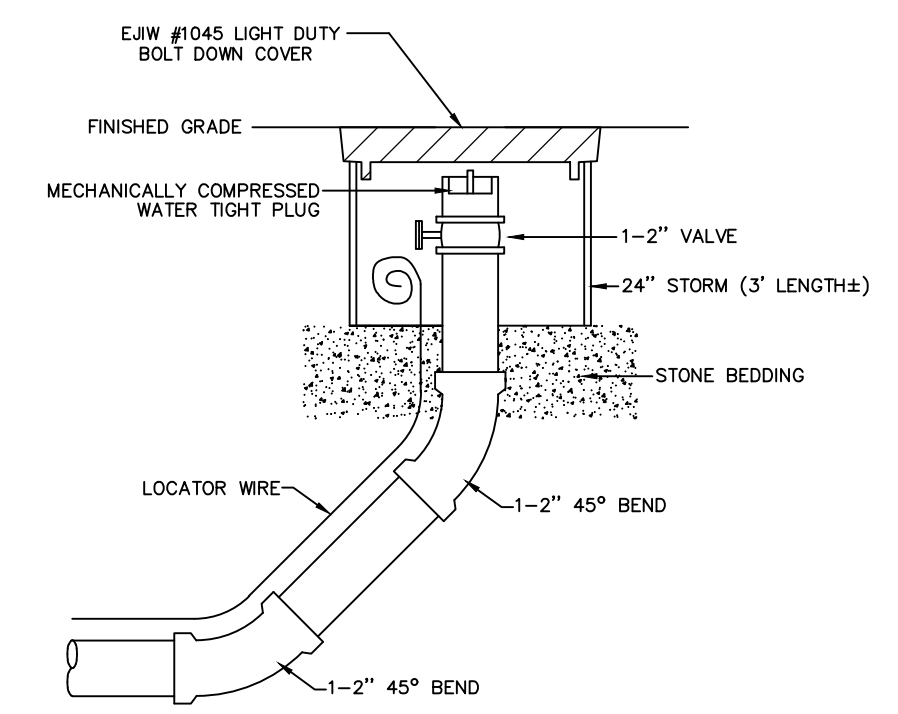
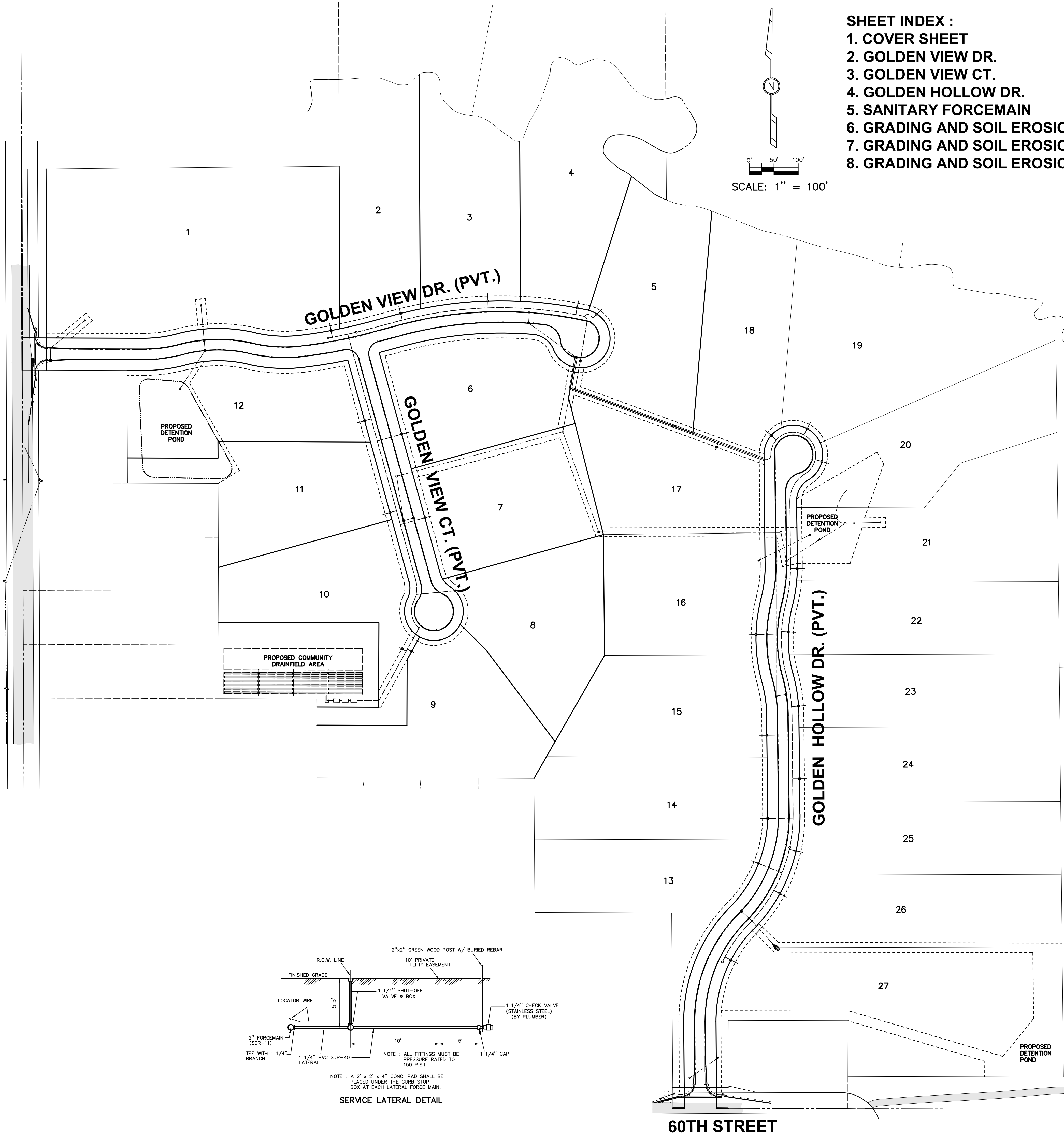
By email

Copy: Michael L. Berrevoets, PE – Fishbeck

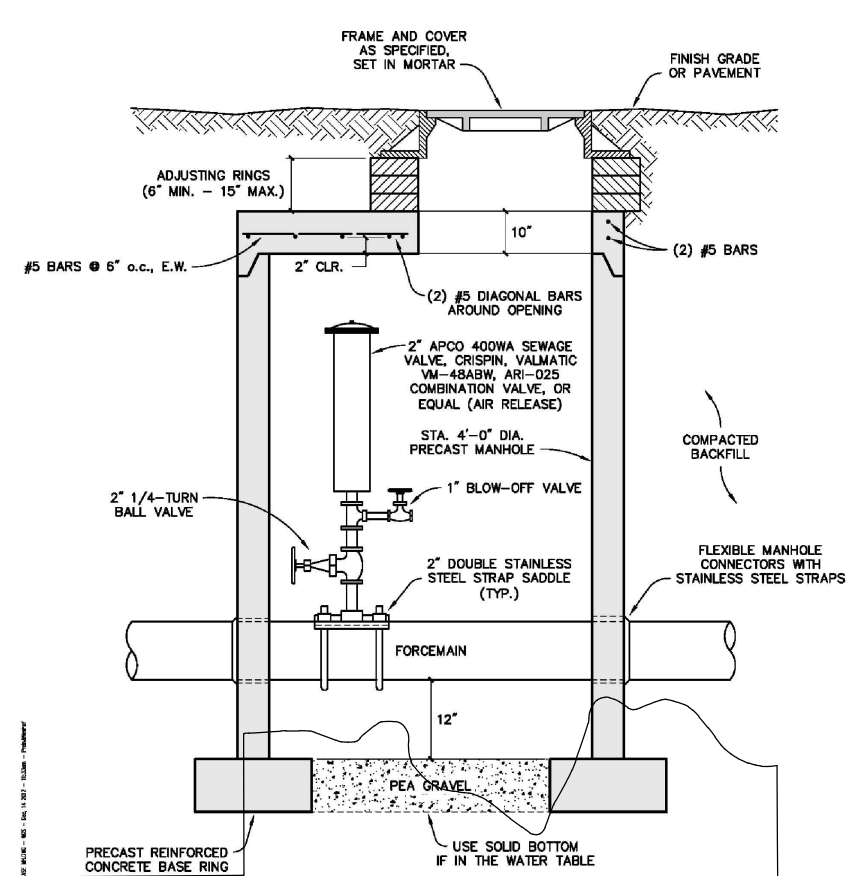
THORNAPPLE RIVER DRIVE

- SHEET INDEX :**
1. COVER SHEET
 2. GOLDEN VIEW DR.
 3. GOLDEN VIEW CT.
 4. GOLDEN HOLLOW DR.
 5. SANITARY FORCEMAIN
 6. GRADING AND SOIL EROSION
 7. GRADING AND SOIL EROSION
 8. GRADING AND SOIL EROSION

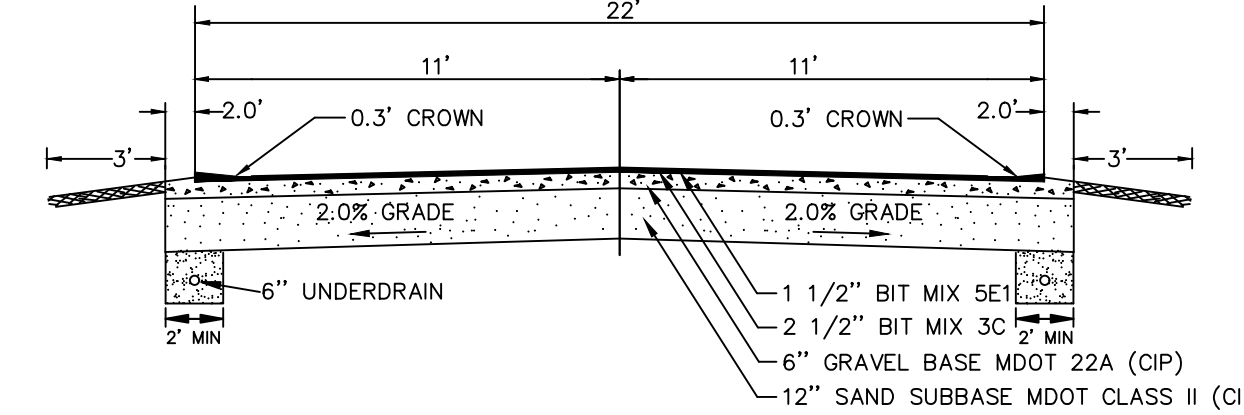
SCALE: 1" = 100'



TERMINAL CLEANOUT DETAIL



STANDARD AIR RELEASE VALVE - MANHOLE FROM NORTH KENT SEWER AUTHORITY



TYPICAL CROSS SECTION WITH STORM SEWER

- STORM SEWER NOTES:**
- YARD DRAINS**
1. ALL 2' DIA. YARD DRAINS (YD) SHALL HAVE 3' DEEP SUMPS AND USE E.J. #6508 GRATE.
 2. ALL 4' DIA. YARD DRAINS (YD) SHALL HAVE 3' DEEP SUMPS AND USE E.J. #6508 GRATE.
 3. ALL ON-LINE CATCH BASINS SHALL NOT HAVE SUMPS UNLESS OTHERWISE NOTED.
- CATCH BASINS**
1. ALL 4' DIA. CATCH BASINS (CB) WITHIN PARKING LOT AREAS SHALL HAVE 3' SUMPS AND USE E.J. #5105 CASTING.
 2. ALL 4' DIA. CATCH BASINS (CB) WITHIN STREET VALLEY GUTTER LABELED "DBL" SHALL HAVE 3' SUMPS AND USE E.J. #7030 CASTING WITH TYPE M2 GRATE AND TYPE T3 BACK.
 3. ALL 4' DIA. CATCH BASINS (CB) WITHIN BLACKTOP VALLEY GUTTER SHALL HAVE 3' SUMPS AND USE E.J. #7065 CASTING WITH TYPE M1 GRATE, UNLESS OTHERWISE NOTED.
 4. ALL 4' DIA. CATCH BASINS (CB) WITHIN 2' CONC. ROLLED CURB AND GUTTER SHALL HAVE 3' SUMPS AND USE E.J. #7065 CASTING WITH TYPE M1 GRATE.
 5. ALL 4' DIA. CATCH BASINS (CB) WITHIN 2' CONC. HEAD CURB SHALL HAVE 3' SUMPS AND USE E.J. #7045 CASTING WITH TYPE M1 GRATE.
 6. ALL 4' DIA. CATCH BASINS (CB) WITHIN MDT B2 CURB SHALL HAVE 3' SUMPS AND USE E.J. #7085 CASTING.
- MATERIAL TYPE**
1. FOOTING DRAIN LEAD SHALL BE PVC SCH. 40
 2. ALL STORM LABELED "STORM SEWER" SHALL EITHER BE SMOOTH-LINED CORRUGATED PLASTIC PIPE (SLCPP) (ADS N-12, HANCOR HI-Q OR APPROVED EQUAL), OR C-76-III, UNLESS OTHERWISE NOTED
 3. ALL STORM LABELED "STORM SEWER U.D." SHALL BE SMOOTH-LINED CORRUGATED PLASTIC PIPE (SLCPP), PERFORATED W/ SOCK (ADS N-12, HANCOR HI-Q OR APPROVED EQUAL).
 4. ALL STORM SEWER TO HAVE PREMIUM WATER TIGHT JOINTS, FLEXIBLE RUBBER COMPRESSION GASKETS PER SECTIONS 401, 402, AND 909 OF MDT'S 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION.
 5. ALL 6" STORM UNDERDRAIN SHALL BE ADS N-12 SLCPP, OR APPROVED EQUAL, AND SHALL HAVE A MINIMUM 3' COVER.

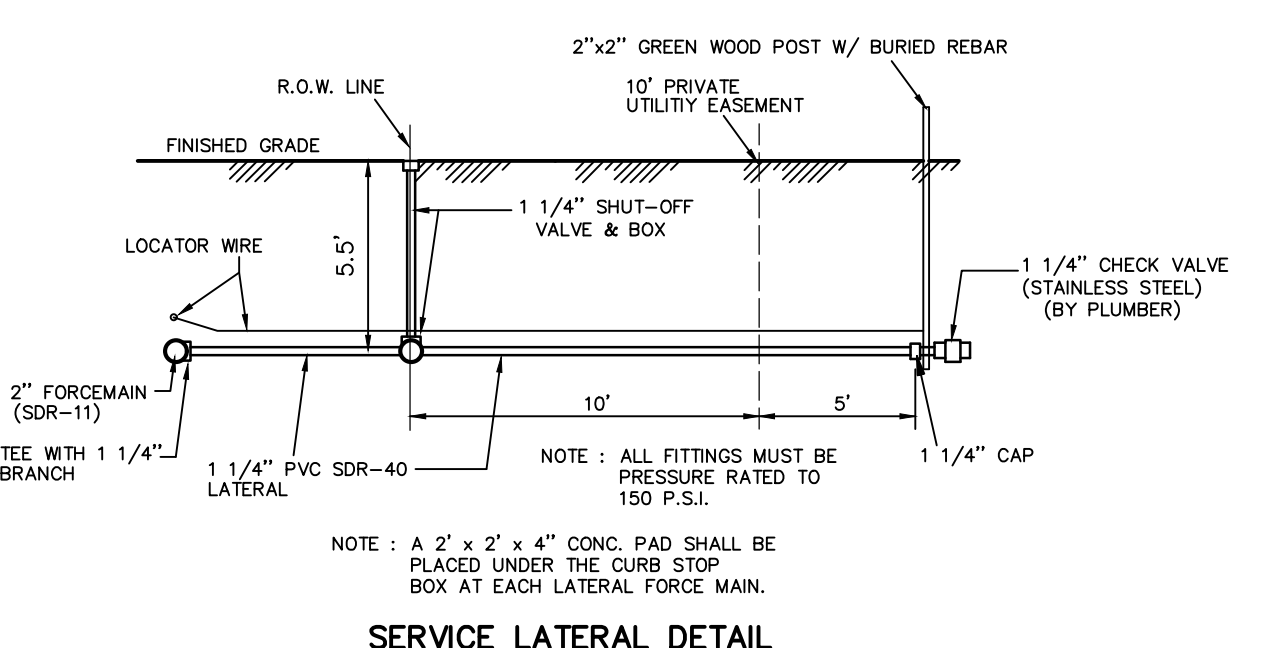
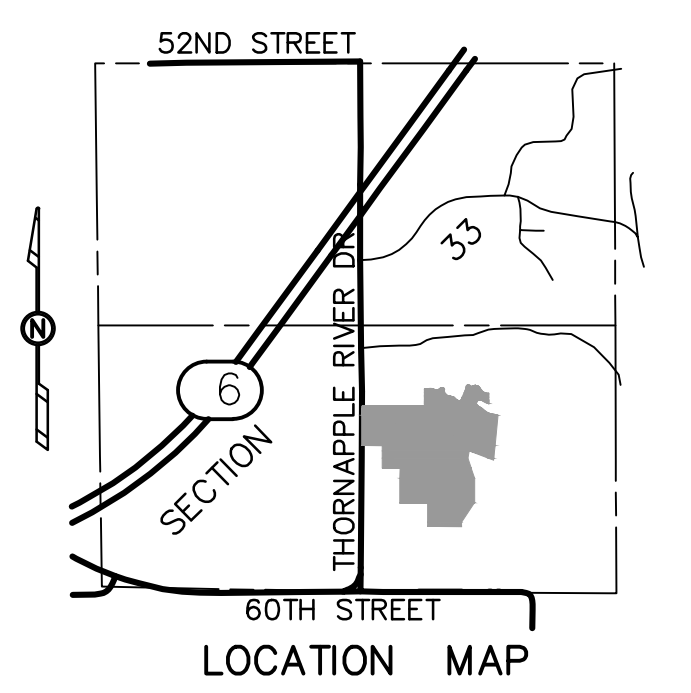
- SANITARY SEWER NOTES:**
1. SANITARY FORCEMAIN SHALL BE CONSTRUCTED AND TESTED PER NORTH KENT SEWER AUTHORITY STANDARD SPECIFICATIONS.
 2. FORCEMAIN MATERIAL SHALL BE HDPE SDR-11.

PLANS PREPARED UNDER THE SUPERVISION OF:

REGISTERED PROFESSIONAL ENGINEER, REG. NO.: 34629



Know what's below.
Call before you dig.



COVER SHEET
GOLDEN VALLEY ESTATES

FOR: DAN KAMPHUIS
2828 KRAFT AVENUE SE (STE. 165)
GRAND RAPIDS, MI 49512

IN: PART OF SECTION 33 & 34, T6N, R10W,
CASCADE TOWNSHIP, KENT COUNTY, MICHIGAN

12/28/20 AS-BUILT		
07/16/20 REV. PH 2 SEWER (JSV)		
05/19/20 REV. PER HEALTH DEPART. (JSD)		
02/12/20 REV. FOR PHASE 2 (JSD)		
01/22/20 REV. PER OWNER (JSD)		
11/22/19 REV. SAN. FM SPECS (JSD)		
10/03/19 REV. PER TOWNSHIP (JSD)		
09/25/19 REV. PER OWNER (JDR)		
09/23/19 REV. STORM OUTLET (JSD)		
09/11/19 ADDED SOIL BORINGS (JSD)		
09/03/19 REV. PER AGENCY REVIEW (JSD)		
08/08/19 ADD BLOCK GRADING DETAIL (JSV)		

DRAWN BY: JSD
APPROVED BY: DDG
FILE NO.: 181266E

PROJ. ENG.: JSV
PROJ. SURV.: JCB
DATE: 07/03/2019

excel engineering, inc.
planners • engineers • surveyors
5252 Clyde Park, S.W. • Grand Rapids, MI 49509
Phone: (616) 531-3666 www.excelengineering.com

SHEET 1 of 8

**GOLDEN VIEW DRIVE (PVT.)
GOLDEN VALLEY ESTATES**

FOR: DAN KAMPHUIS
2828 KRAFT AVENUE SE (STE. 165)
GRAND RAPIDS, MI 49512

IN: PART OF SECTION 33 & 34, T6N, R10W,
CASCADE TOWNSHIP, KENT COUNTY, MICHIGAN

REVISIONS:	
12/28/20	AS-BUILT
07/16/20	REV. PH 2 SEWER (JSV)
05/19/20	REV. PER HEALTH DEPART. (JSD)
03/12/20	REV. FOR PHASE 2 (JSD)
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08/08/19	ADD. BLOCK GRADING DETAIL (JSV)

DRAWN BY: JSD
APPROVED BY: DDG
FILE NO.: 181266E

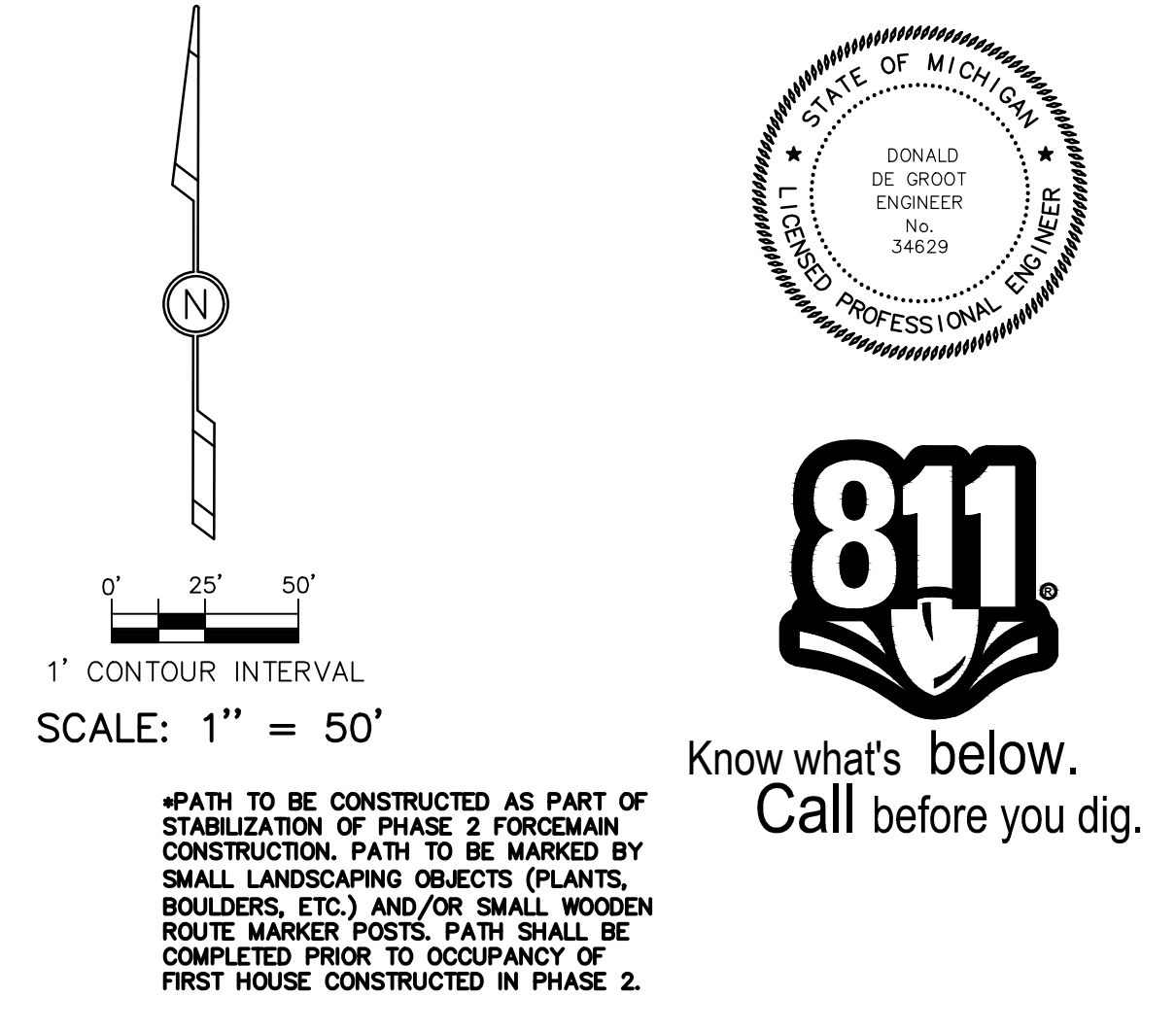
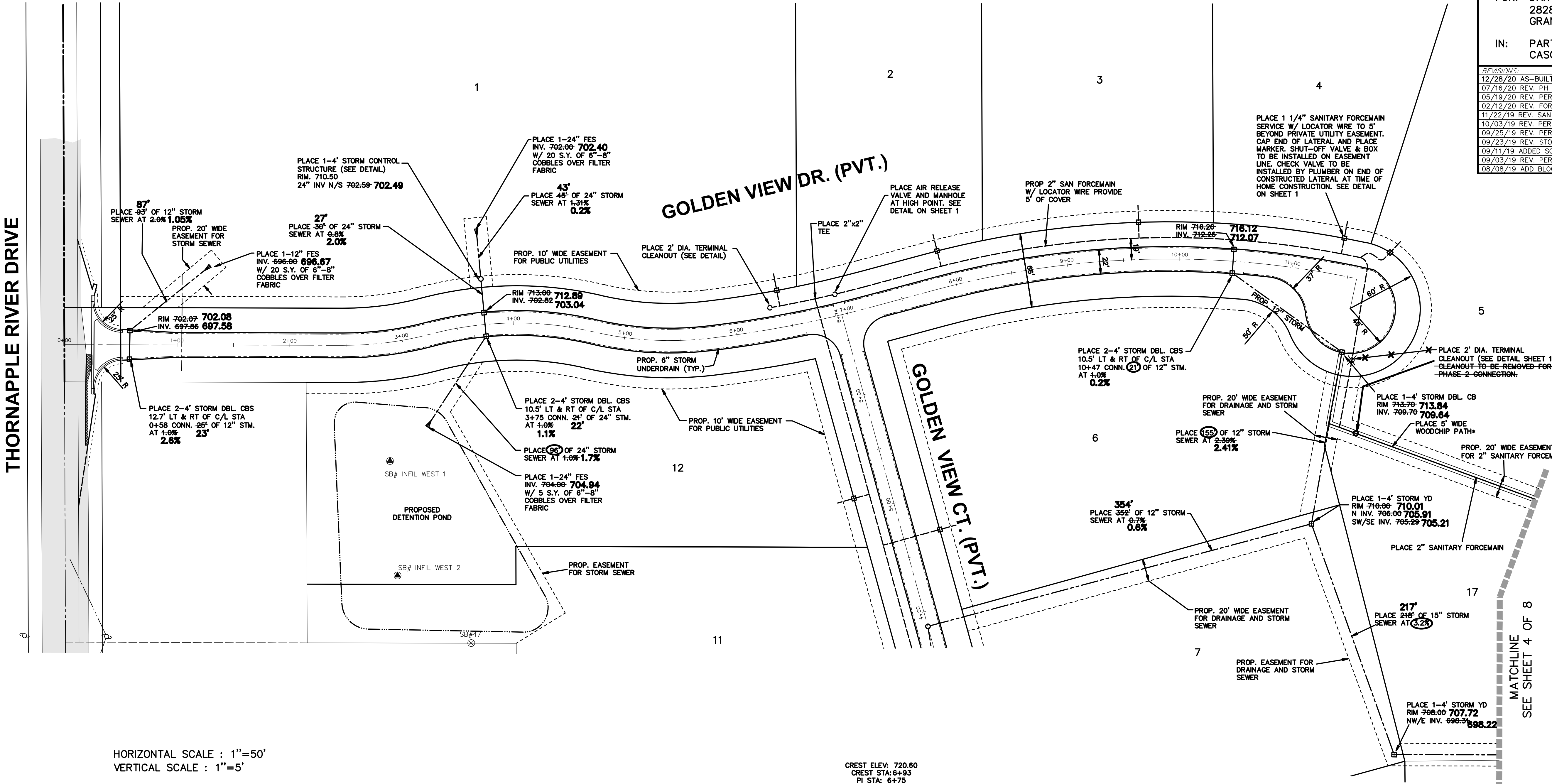
PROJ. ENG.: JSV
PROJ. SURV.: JCB
DATE: 07/03/2019

811
Know what's below.
Call before you dig.

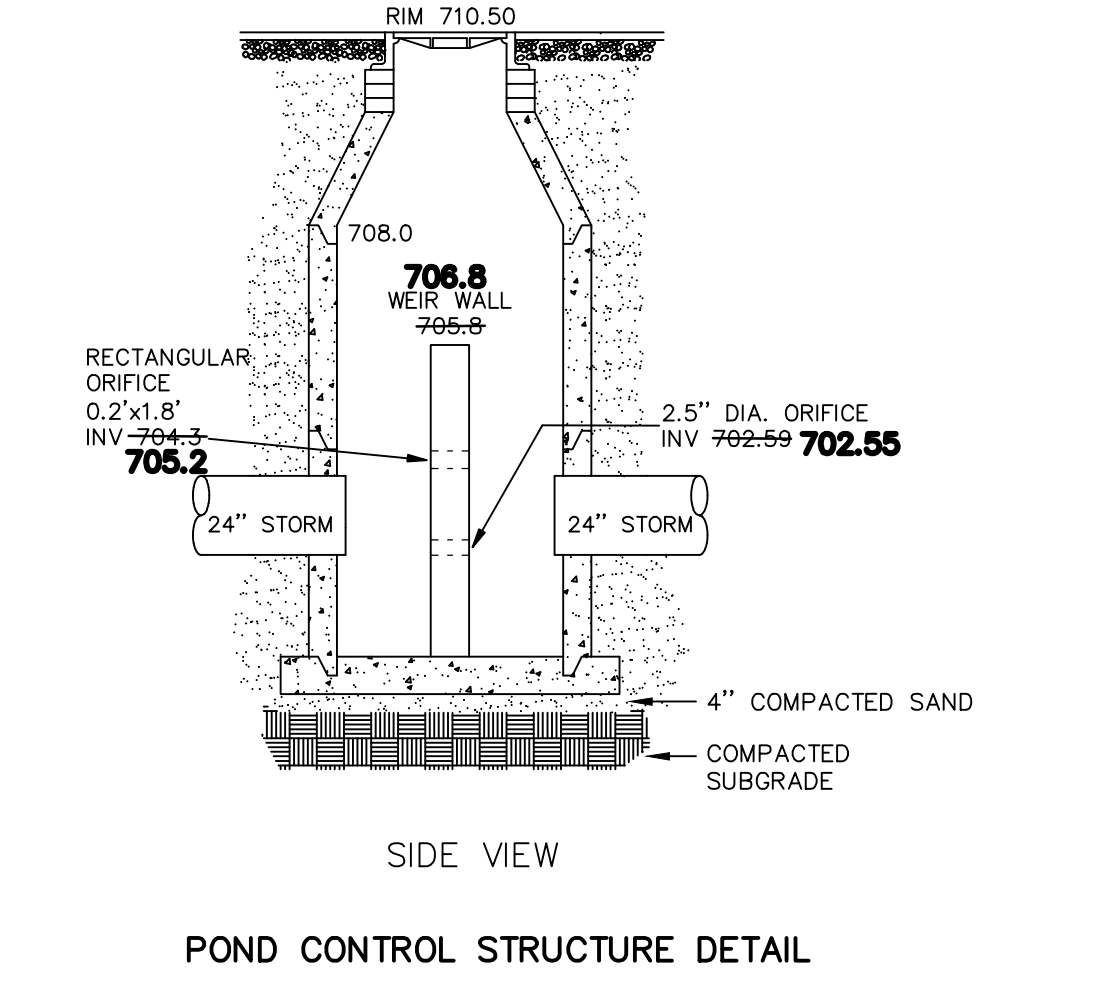
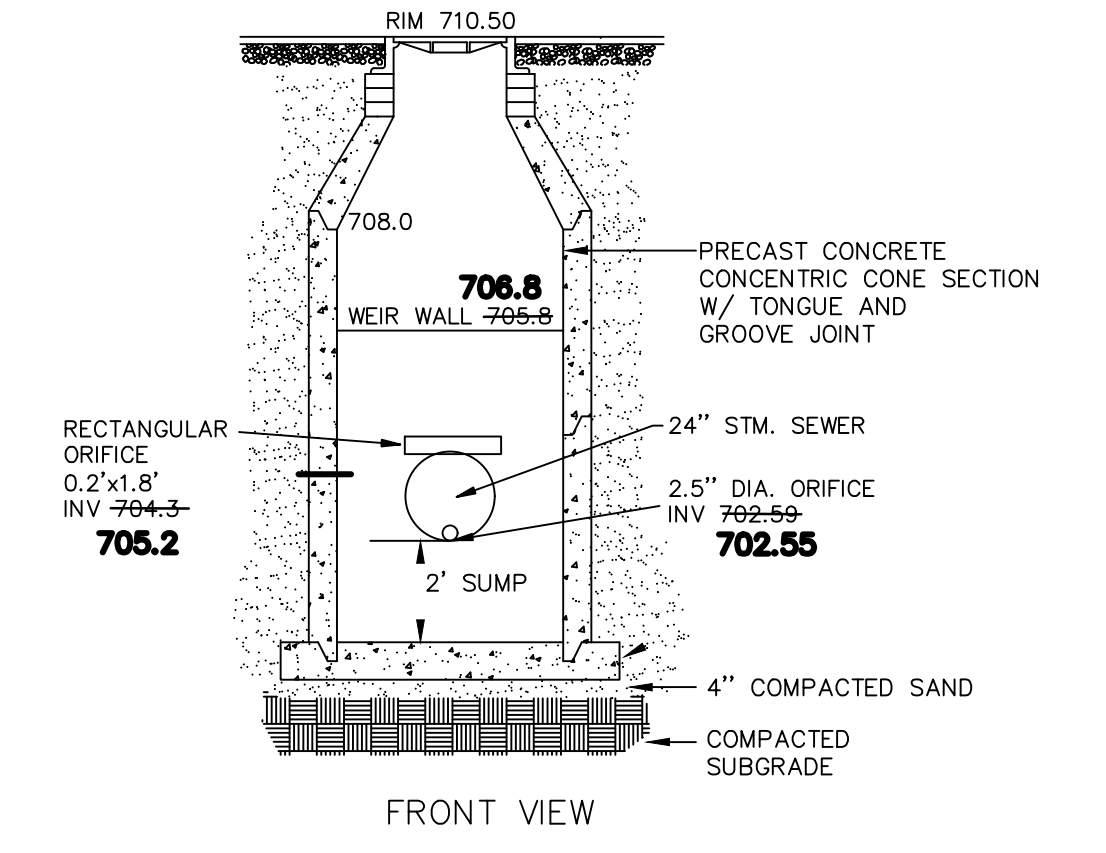
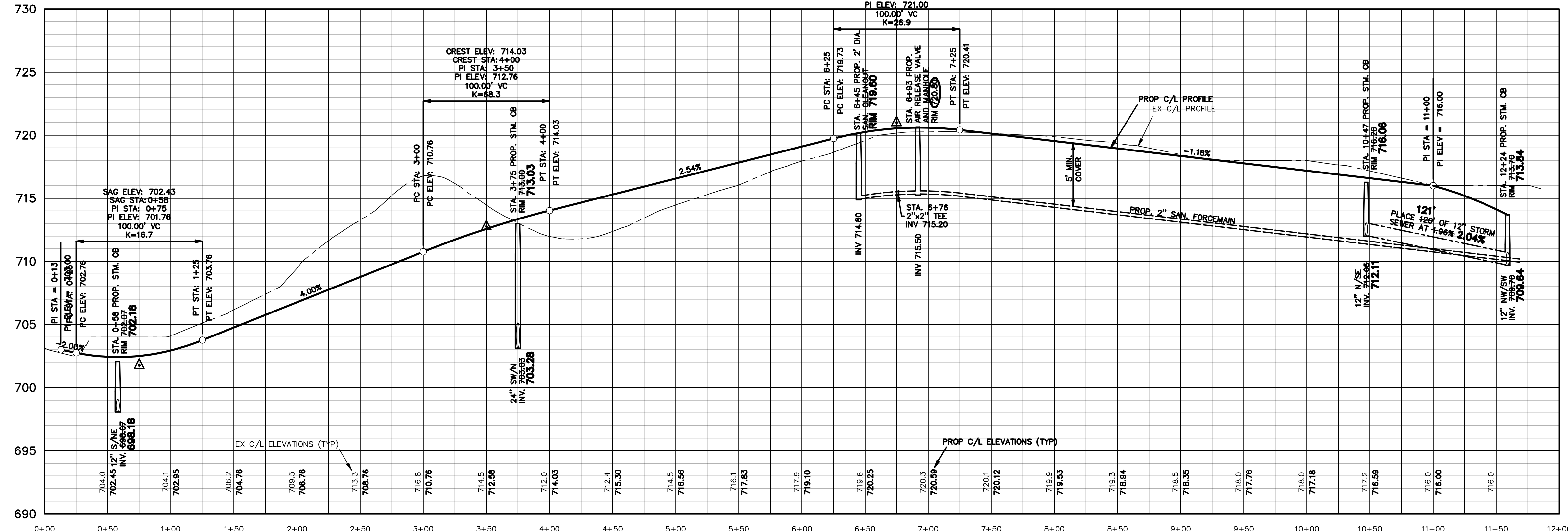
STATE OF MICHIGAN
DONALD DE GROOT
ENGINEER
No. 34629
LICENSED PROFESSIONAL ENGINEER

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planners • engineers • surveyors
5252 Clyde Park, S.W. • Grand Rapids, MI 49509
Phone: (616) 531-3660 www.exxelengineering.com

SHEET
2 of 8



HORIZONTAL SCALE : 1"=50'
VERTICAL SCALE : 1"=5'



POND CONTROL STRUCTURE DETAIL

THORNAPPLE RIVER DRIVE

GOLDEN VIEW DR. (PVT.)

GOLDEN VIEW CT. (PVT.)

MATCHLINE
SEE SHEET 4 OF 8

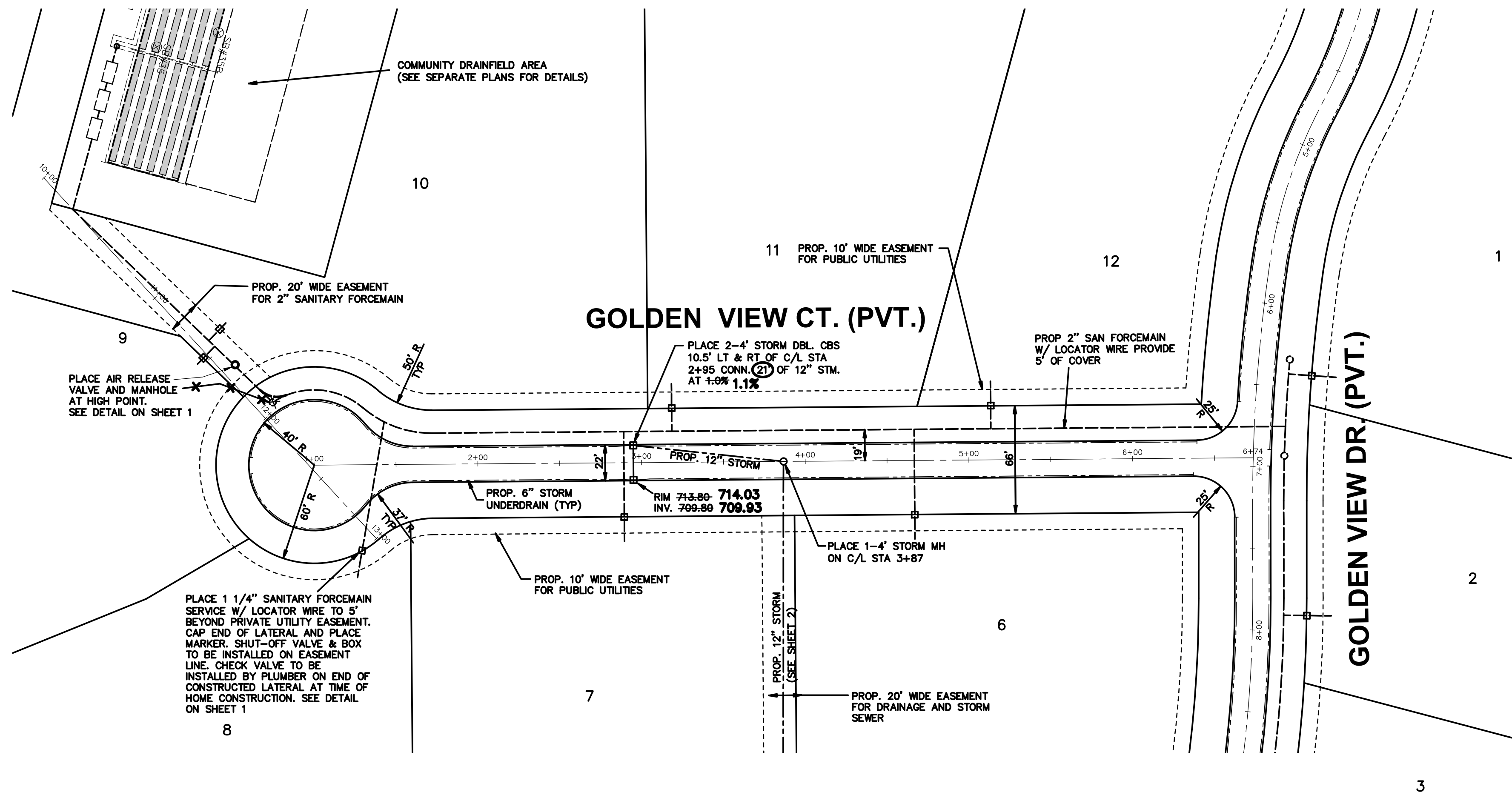
**GOLDEN VIEW COURT (PVT.)
GOLDEN VALLEY ESTATES**

FOR: DAN KAMPHUIS
2828 KRAFT AVENUE SE (STE. 165)
GRAND RAPIDS, MI 49512

IN: PART OF SECTION 33 & 34, T6N, R10W,
CASCADE TOWNSHIP, KENT COUNTY, MICHIGAN

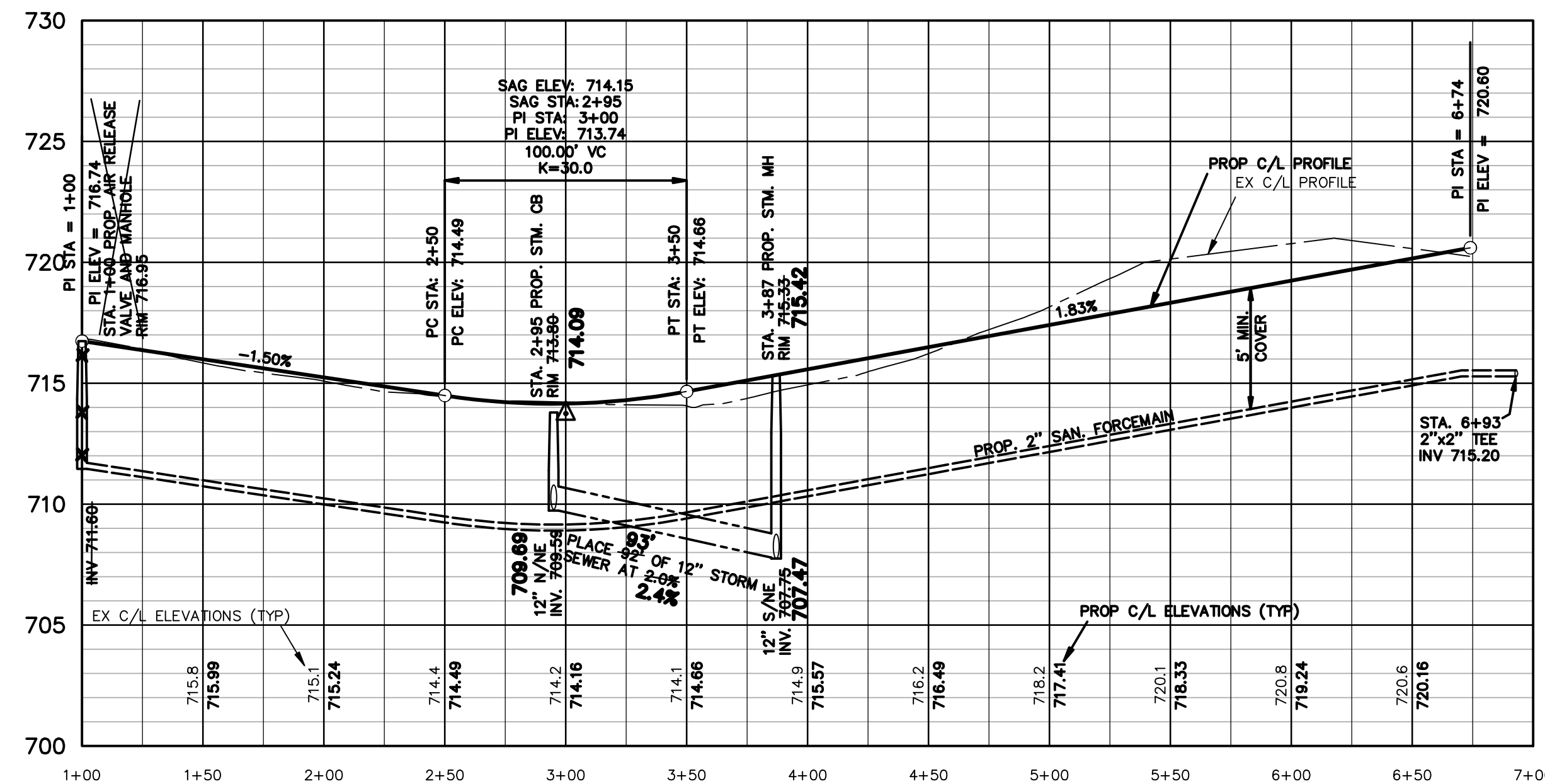
REVISIONS:	DRAWN BY: JSD	PROJ. ENG.: JSV	SHEET 3 of 8
12/28/20 AS-BUILT	APPROVED BY: DDG	PROJ. SURV.: JCB	
07/16/20 REV. PH 2 SEWER (JSV)	FILE NO.: 181266E	DATE: 07/03/2019	
05/19/20 REV. PER HEALTH DEPART. (JSD)			
02/12/20 REV. FOR PHASE 2 (JSD)			
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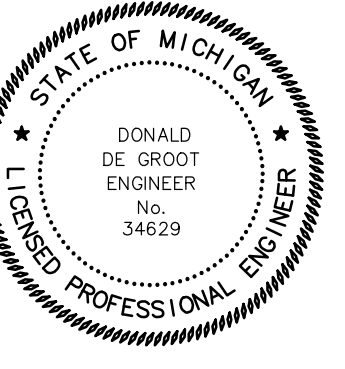
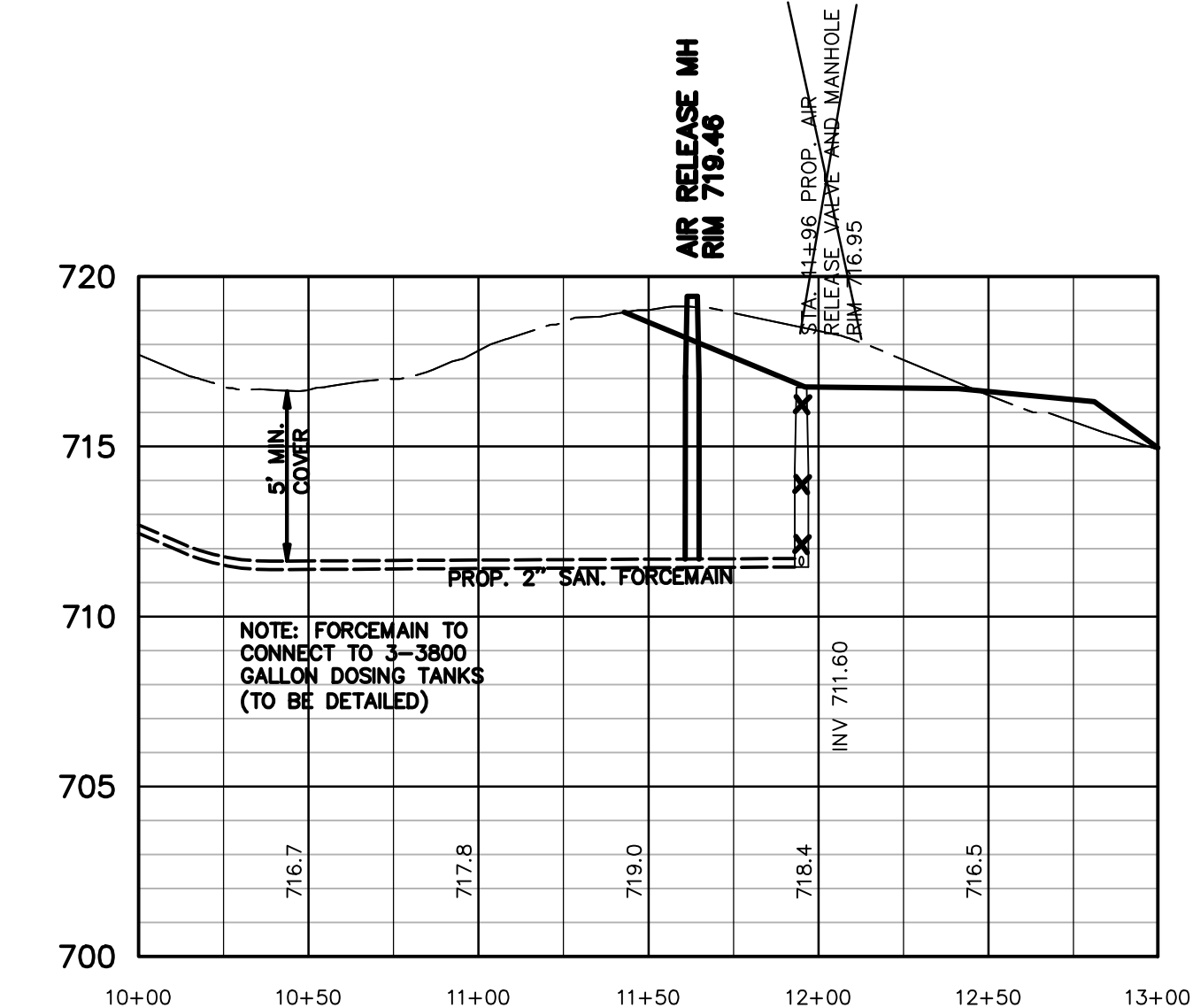


HORIZONTAL SCALE : 1"=50'
VERTICAL SCALE : 1"=5'

GOLDEN VIEW CT. (PVT.)



SAN. FORCEMAIN BETWEEN LOTS 9 AND 10



Know what's below.
Call before you dig.

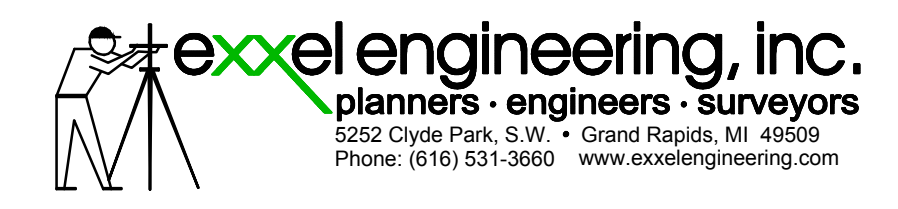
**CROSS COUNTRY SANITARY FORCEMAIN
GOLDEN VALLEY ESTATES**

FOR: DAN KAMPHUIS
2828 KRAFT AVENUE SE (STE. 165)
GRAND RAPIDS, MI 49512

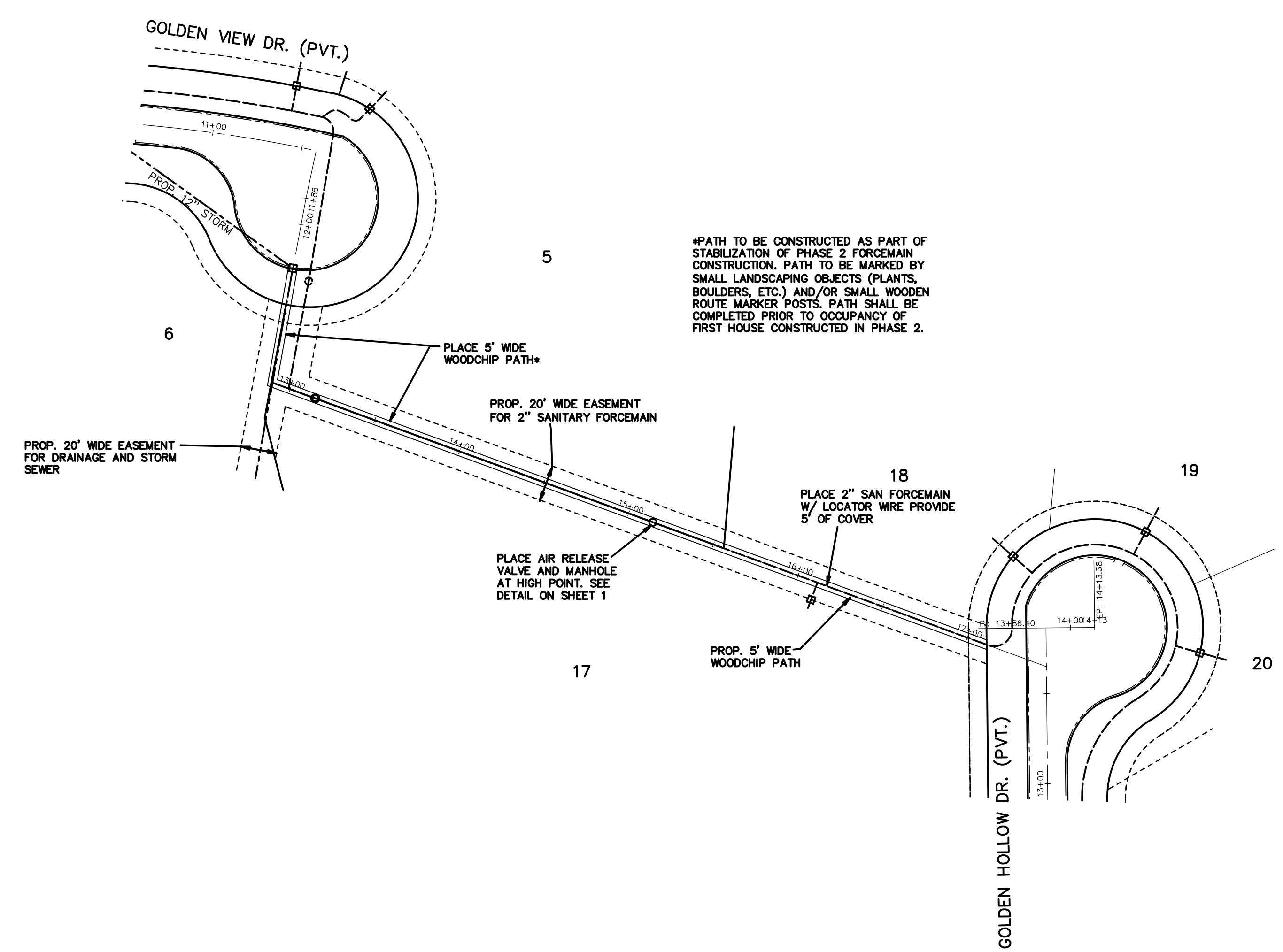
IN: PART OF SECTION 33 & 34, T6N, R10W,
CASCADE TOWNSHIP, KENT COUNTY, MICHIGAN

REVISIONS:

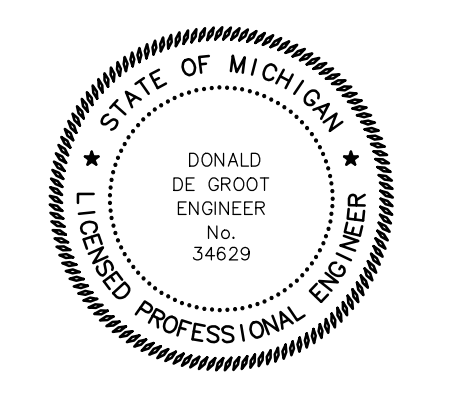
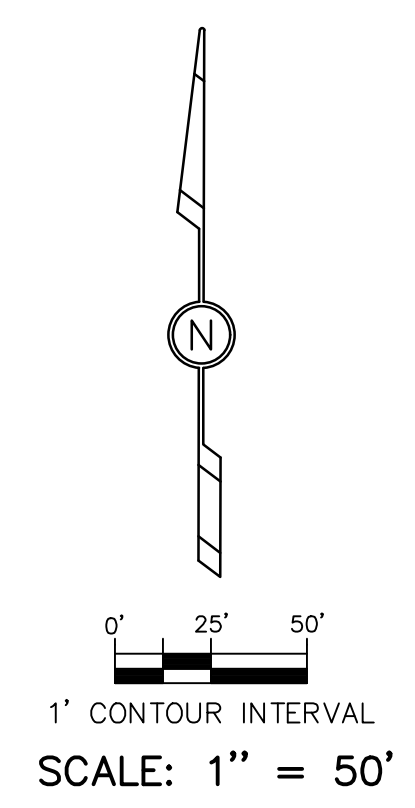
12/28/20	AS-BUILT
07/16/20	REV. PH 2 SEWER (JSV)
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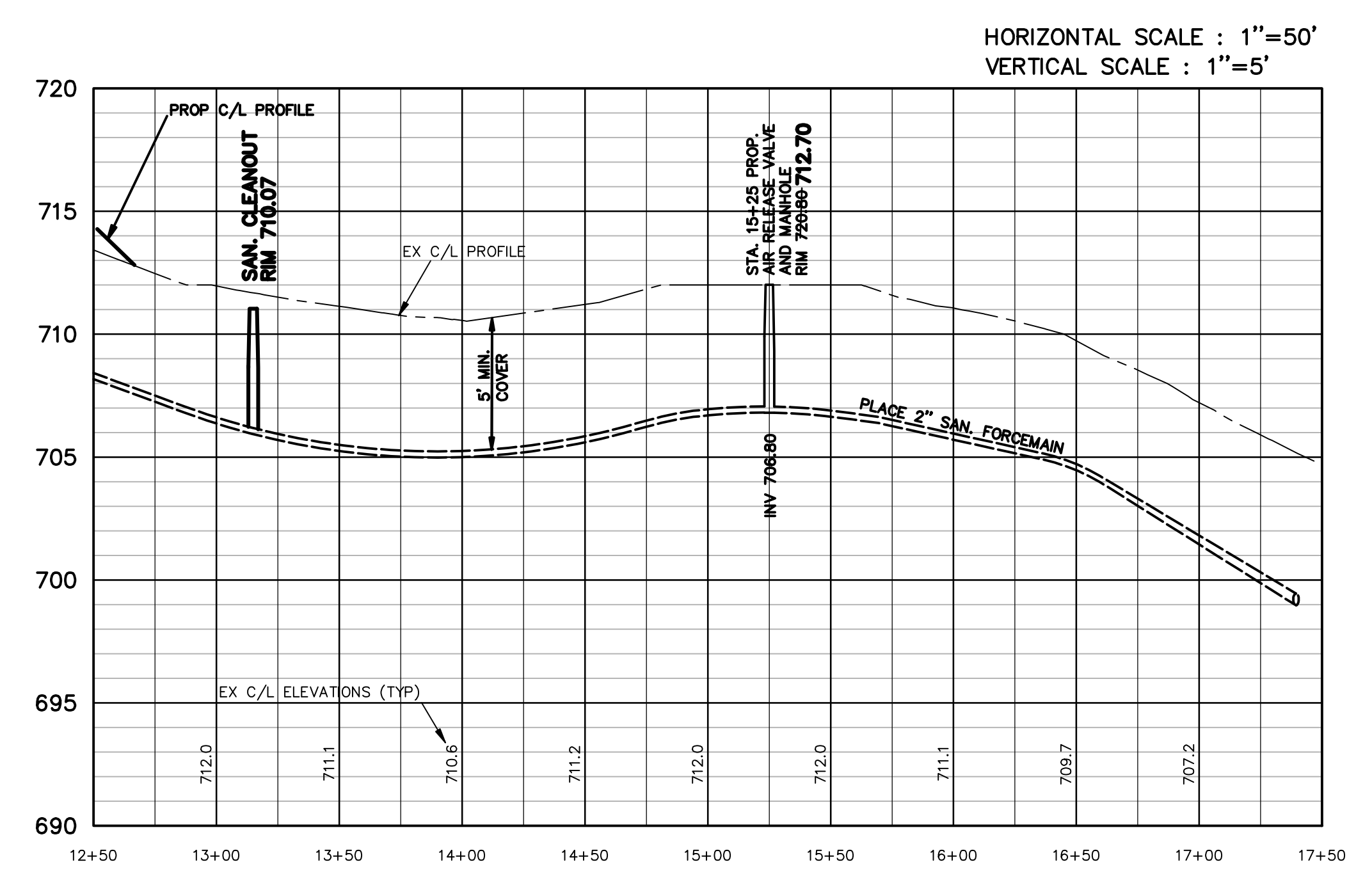
DRAWN BY: JSD	PROJ. ENG.: JSV	SHEET 5 of 8
APPROVED BY: DDG	PROJ. SURV.: JCB	
FILE NO.: 181266E	DATE: 07/03/2019	



NOTE: ALL CROSS-COUNTRY FORCEMAIN TO BE CONSTRUCTED WITH PHASE 2



Know what's below.
Call before you dig.



THORNAPPLE RIVER DRIVE

GOLDEN VIEW DR. (PVT.)

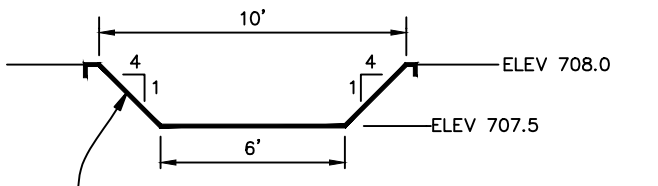
GOLDEN VIEW CT. (PVT.)

UNITS 1-5 ALL DRAIN TOWARD THE NORTH TO THE EXISTING TRIBUTARY TO THE THORNAPPLE RIVER.

SOIL EROSION CONTROL NOTES:

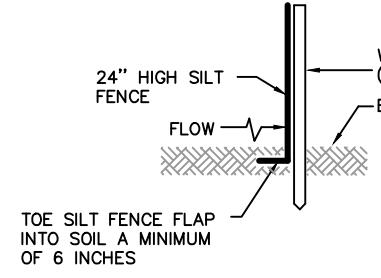
- TOTAL AREA OF DISTURBANCE = 18.0 ACRES
- ALL SOIL EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO THE START OF ANY GRADING.
- INSPECT AND MAINTAIN ALL TEMPORARY SOIL EROSION CONTROLS AFTER EACH SIGNIFICANT RAINFALL EVENT UNTIL THE SITE HAS BEEN PERMANENTLY STABILIZED.
- ALL NON PAVED AREAS TO BE TOPSOILED (4" MIN.) AND SEEDED.
- PLACE SILT FENCE AS SHOWN ON PLAN AND PER DETAIL.
- PROTECT ALL NEW AND EXISTING STORM BASINS WITH SEDIMENT SACKS AND REMOVE WHEN SITE IS STABILIZED. AFTER SACKS ARE REMOVED, ALL STRUCTURES TO BE CLEANED OUT.

*PATH TO BE CONSTRUCTED AS PART OF STABILIZATION OF PHASE 2 FORCEMAIN CONSTRUCTION. PATH TO BE MARKED BY SMALL LANDSCAPING OBJECTS (PLANTS, BOULDERS, ETC.) AND/OR SMALL WOODEN ROUTE MARKER POSTS. PATH SHALL BE COMPLETED PRIOR TO OCCUPANCY OF FIRST HOUSE CONSTRUCTED IN PHASE 2.

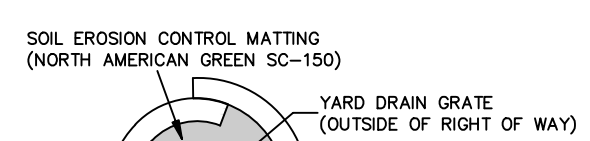


WEST POND EMERGENCY OVERFLOW DETAIL

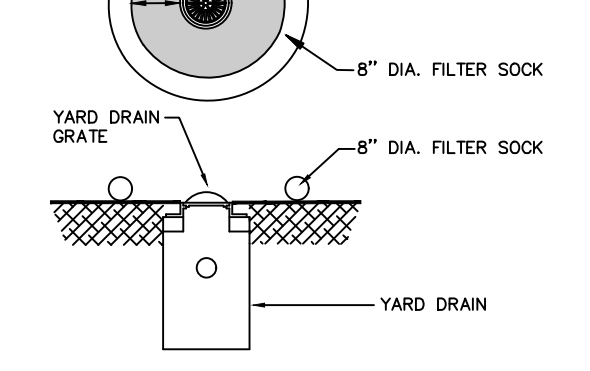
PROP. NORTH AMERICAN GREEN P-300 PERMANENT SOIL EROSION BLANKET. TOE IN BLANKET ON BOTH SIDES AND ENDS.



SILT FENCE DETAIL



SILT SACK DETAIL



YARD DRAIN PROTECTION DETAIL

DENOTES EXISTING FLOW PATTERNS WHICH ARE INTENDED TO BE MAINTAINED. FINAL GRADING AROUND PROPOSED HOUSES MAY REQUIRE FLOW PATTERNS BE REDIRECTED TO AVOID THE HOUSES BUT EXISTING WATERSHEDS SHALL BE MAINTAINED AND REDIRECTED FLOW SHALL NOT ADVERSELY IMPACT NEIGHBORING STRUCTURES. (TYP.)

PLACE SILT SACK (TYP OF 9 THIS SHEET) (SEE DETAIL)

PROP. 20' WIDE EASEMENT FOR DRAINAGE AND STORM SEWER

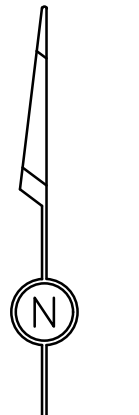
PROP. EASEMENT FOR DRAINAGE AND STORM SEWER

PLACE YARD DRAIN PROTECTION (TYP OF 2 THIS SHEET) (SEE DETAIL)

Test Hole No. 50	0.0' - 1.0' Topsoil, brown	1.0' - 1.0' Topsoil, brown	Test Hole No. 53	0.0' - 1.0' Topsoil, brown
1.0' - 6.0' Fine sand, brown, moist to wet	1.0' - 3.0' Loamy sand, orange, fine	1.0' - 2.0' Sandy topsoil, brown	2.0' - 4.5' Clay, grey	2.0' - 4.5' Clay, grey
6.0' - 20.0' Fine sand with silt, brown, wet very loose to loose	3.0' - 7.0' Sand, tan, fine/medium	2.0' - 2.5' Loamy sand, tan/orange, fine	4.5' - 6.0' Clay, some loam, grey	4.5' - 6.0' Clay, some loam, grey
20.0' - 6.9' Water table	5.0' Caving/moisture	5.0' Seasonal water level	5.0' Caving/moisture	5.0' Seasonal water level
Test Hole No. 51	0.0' - 1.0' Topsoil, brown	1.0' - 1.0' Topsoil, brown	Test Hole No. 54	0.0' - 1.0' Topsoil, brown
1.0' - 2.0' Sandy topsoil, brown	1.0' - 2.0' Loamy sand, orange, fine	1.0' - 2.0' Sandy topsoil, brown	2.0' - 2.5' Loamy sand, tan/orange, fine	2.0' - 2.5' Loamy sand, tan/orange, fine
2.0' - 3.0' Loamy sand, orange, fine	3.0' - 4.0' Sandy clay loam, orange/tan	2.0' - 2.5' Loamy sand, tan/orange, fine	2.5' - 6.0' Loamy sand, w/day lenses, tan, orange	2.5' - 6.0' Loamy sand, w/day lenses, tan, orange
3.0' - 4.0' Sandy clay loam, orange/tan	4.0' - 7.0' Sand, tan, fine/medium	5.0' Caving/moisture	5.0' Caving/moisture	5.0' Seasonal water level
4.0' - 7.0' Sand, tan, fine/medium	5.0' Caving/moisture	5.0' Seasonal water level	5.0' Caving/moisture	5.0' Seasonal water level
5.0' Caving/moisture	5.0' Seasonal water level			
5.0' Seasonal water level				
Test Hole No. 52	0.0' - 1.0' Topsoil, brown	1.0' - 1.0' Topsoil, brown	Test Hole No. 55	0.0' - 1.0' Topsoil
1.0' - 2.0' Loamy sand, orange/brown, fine	1.0' - 2.0' Loamy sand, orange/brown, fine	1.0' - 2.0' Loamy sand, orange/red, fine	1.0' - 2.0' Loamy sand, orange/red, fine	
2.0' - 4.5' Sand, tan, fine/medium	2.0' - 4.5' Sand, tan, fine/medium	2.0' - 2.5' Loamy sand, orange/red, fine	2.0' - 2.5' Loamy sand, orange/red, fine	
4.5' - 6.5' Sand, tan, medium/coarse	4.5' - 6.5' Sand, tan, medium/coarse	2.5' - 6.0' Sand, some loam, fine/medium, tan	2.5' - 6.0' Sand, some loam, fine/medium, tan	
5.0' Caving/moisture	5.0' Caving/moisture	5.0' Caving/moisture	5.0' Caving/moisture	
5.0' Seasonal water level	5.0' Seasonal water level			
5.0' Seasonal water level				



Know what's below. Call before you dig.



SCALE: 1" = 50'
2' CONTOUR INTERVAL (GIS)
1' CONTOUR INTERVAL (EXCEL TOPO)

Test Hole No. Infiltration West 1	0.0' - 1.0' Sand	1.0' - 6.0' Fine sand with silt, frequent roots, brown, moist, very loose	6.0' - 10.0' Fine sand, brown, moist to wet, loose	10.0' - 20.0' Fine sand with silt, brown, wet very loose to loose	20.0' - 6.9' Water table
Test Hole No. Infiltration West 2	0.0' - 0.2' Topsoil	0.2' - 5.0' Fine clayey sand, brown and gray	5.0' - 7.0' Fine silty sand, brown, moist to wet	7.0' - 20.0' Very loose	20.0' - 5.2' Water table
Soil borings Infiltration West and East were taken on July 18, 2019 by Andrew Bolton at SME.					

SB 1	0.0' - 15.0' Medium Fine Topsoil	15.0' - 20.0' Clay
SB 2	0.0' - 8.0' Fine Tan Sand	8.0' - 10.0' Clay
SB 3	0.0' - 0.5' Loamy Sand Topsoil	0.5' - 17.0' Clay
SB 4	0.0' - 1.0' Loamy Topsoil	1.0' - 4.0' Very Fine Tan Sand
SB 5	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 6	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 7	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 8	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 9	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 10	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 11	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 12	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 13	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 14	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 15	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 16	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 17	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 18	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 19	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 20	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 21	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 22	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 23	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 24	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 25	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 26	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 27	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 28	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 29	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 30	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 31	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 32	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 33	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 34	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 35	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 36	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 37	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 38	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 39	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 40	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 41	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 42	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 43	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 44	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 45	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 46	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 47	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 48	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 49	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 50	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 51	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 52	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 53	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 54	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 55	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
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SB 58	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 59	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 60	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 61	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 62	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 63	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 64	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 65	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 66	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 67	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 68	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 69	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 70	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 71	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 72	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 73	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 74	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 75	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 76	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 77	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 78	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 79	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 80	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 81	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 82	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 83	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 84	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 85	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 86	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 87	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 88	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 89	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 90	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 91	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 92	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 93	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 94	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 95	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 96	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 97	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 98	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 99	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium
SB 100	0.0' - 1.0' Loamy Topsoil	1.0' - 10.0' Fine Tan Sand - Medium

PERMISSION FOR OFF-SITE GRADING SHALL BE OBTAINED BY DEVELOPER

GRADING AND SOIL EROSION CONTROL PLAN GOLDEN VALLEY ESTATES

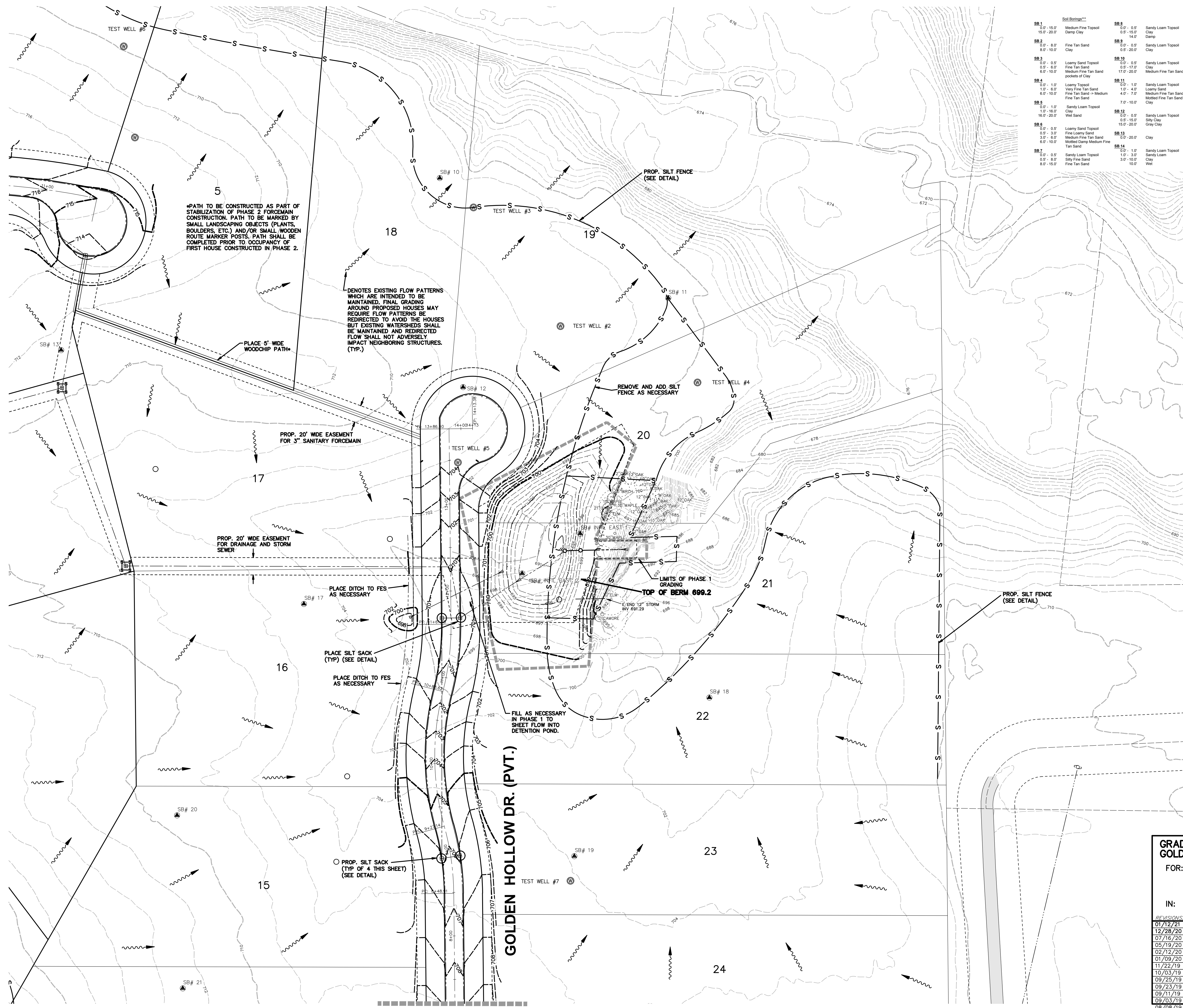
FOR: DAN KAMPHUIS
2828 KRAFT AVENUE SE (STE. 165)
GRAND RAPIDS, MI 49512

IN: PART OF SECTION 33 & 34, T6N, R10W, CASCADE TOWNSHIP, KENT COUNTY, MICHIGAN

01/12/21 AS-BUILT-ADD POND CONTOURS	07/16/20 REV. PH 2 SEWER (JSD)
12/28/20 AS-BUILT	05/19/20 REV. PER HEALTH DEPART. (JSD)
03/26/20 IN PROGRESS/ADDED SB'S (JSD)	02/12/20 REV. FOR PHASE 2 (JSD)
11/22/19 REV. SAN. FM SPECS (JSD)	10/03/19 REV. PER TOWNSHIP (JSD)
09/25/19 REV. PER OWNER (JSD)	09/23/19 REV. STORM OUTLET (JSD)
09/11/19 REV. STORM OUTLET (JSD)	09/03/19 REV. PER AGENCY REVIEW (JSD)
08/08/19 ADD BLOCK GRADING DETAIL (JSD)	

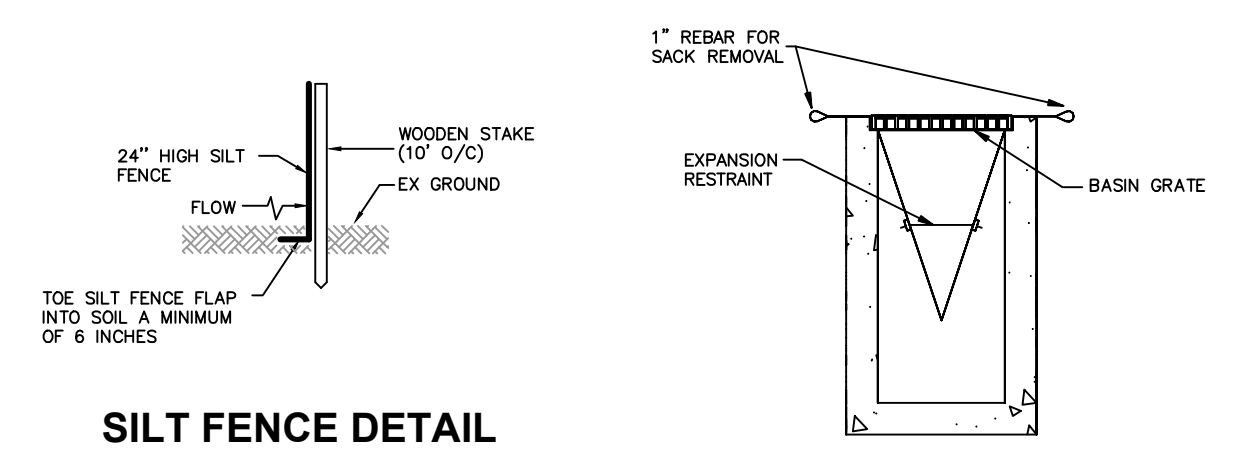


DRAWN BY: JSD	PROJ. ENG.: JSV	SHEET: 6 of 8
APPROVED BY: DDG	PROJ. SURV.: JCB	
FILE NO.: 181266E	DATE: 07/03/2019	

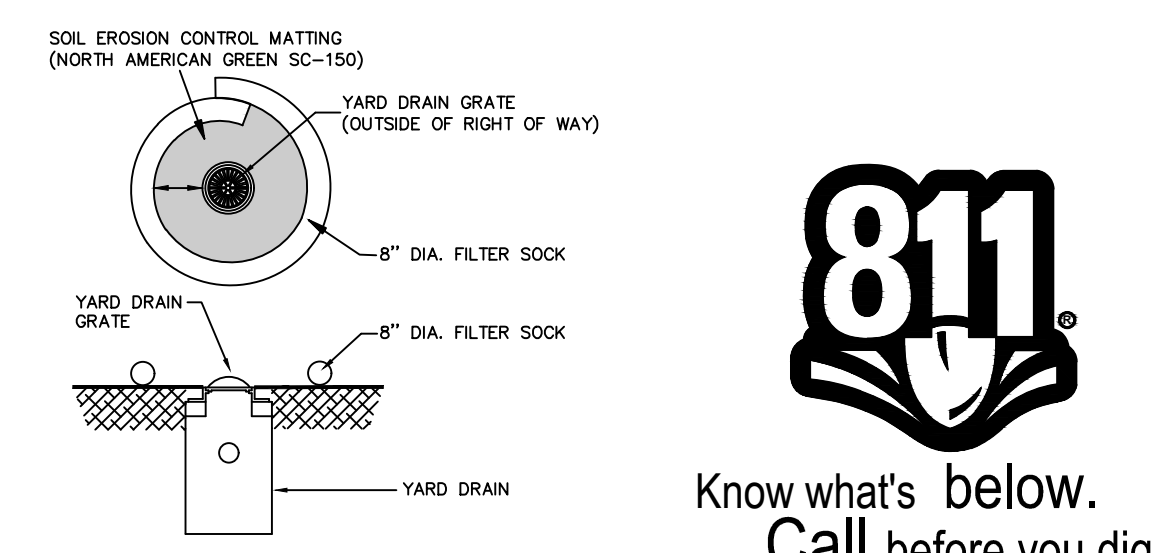


Soil Borings			
SB 1	0.0' - 0.5' Medium Fine Topsoil 0.5' - 1.0' Stamp Clay	SB 8	0.0' - 0.5' Sandy Loam Topsoil 0.5' - 1.0' Clay 1.0' - 1.5' Damp
SB 2	0.0' - 0.5' Fine Tan Sand 0.5' - 1.0' Clay	SB 9	0.0' - 0.5' Sandy Loam Topsoil 0.5' - 1.0' Clay
SB 3	0.0' - 0.5' Loamy Sand Topsoil 0.5' - 1.0' Fine Tan Sand 1.0' - 1.5' Medium Fine Tan Sand 1.5' - 2.0' pockets of Clay	SB 10	0.0' - 0.5' Sandy Loam Topsoil 0.5' - 1.0' Clay 1.0' - 1.5' Medium Fine Tan Sand
SB 4	0.0' - 0.5' Loamy Topsoil 0.5' - 1.0' Very Fine Tan Sand 1.0' - 1.5' Medium Fine Tan Sand 1.5' - 2.0' Mottled Fine Tan Sand	SB 11	0.0' - 0.5' Sandy Loam Topsoil 0.5' - 1.0' Silty Clay 1.0' - 1.5' Gray Clay
SB 5	0.0' - 0.5' Sandy Loam Topsoil 0.5' - 1.0' Clay 1.0' - 1.5' Wet Sand	SB 12	0.0' - 0.5' Sandy Loam Topsoil 0.5' - 1.0' Silty Clay 1.0' - 1.5' Gray Clay
SB 6	0.0' - 0.5' Loamy Sand Topsoil 0.5' - 1.0' Fine Loamy Sand 1.0' - 1.5' Medium Fine Tan Sand 1.5' - 2.0' Mottled Damp Medium Fine Tan Sand	SB 13	0.0' - 0.5' Sandy Loam Topsoil 0.5' - 1.0' Silty Clay 1.0' - 1.5' Gray Clay
SB 7	0.0' - 0.5' Sandy Loam Topsoil 0.5' - 1.0' Silty Fine Sand 1.0' - 1.5' Fine Tan Sand	SB 14	0.0' - 0.5' Sandy Loam Topsoil 0.5' - 1.0' Silty Clay 1.0' - 1.5' Gray Clay
SB 15	0.0' - 0.5' Sandy Loam Topsoil 0.5' - 1.0' Clay 1.0' - 1.5' Medium Fine Tan Sand	SB 16	0.0' - 0.5' Clay 0.5' - 1.0' Wet
SB 17	0.0' - 0.5' Clay 0.5' - 1.0' Wet	SB 18	0.0' - 0.5' Clay 0.5' - 1.0' Wet
SB 19	0.0' - 0.5' Clay 0.5' - 1.0' Wet	SB 20	0.0' - 0.5' Clay 0.5' - 1.0' Damp
SB 21	0.0' - 0.5' Clay 0.5' - 1.0' Wet	SB 22	0.0' - 0.5' Clay 0.5' - 1.0' Wet
SB 23	0.0' - 0.5' Clay 0.5' - 1.0' Wet	SB 24	0.0' - 0.5' Clay 0.5' - 1.0' Wet

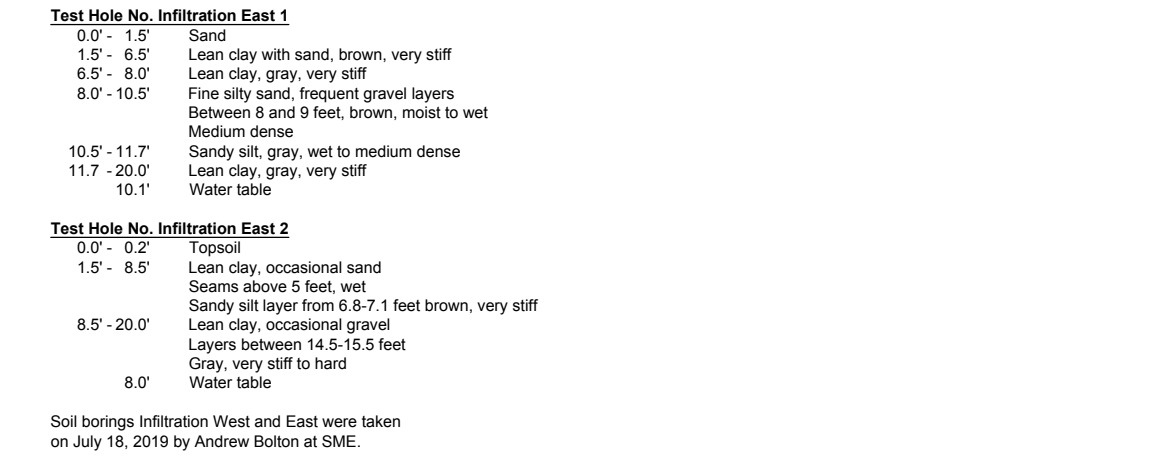
- SOIL EROSION CONTROL NOTES:**
- TOTAL AREA OF DISTURBANCE = 18.5 ACRES
 - ALL SOIL EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO THE START OF ANY GRADING.
 - INSPECT AND MAINTAIN ALL TEMPORARY SOIL EROSION CONTROLS AFTER EACH SIGNIFICANT RAINFALL EVENT UNTIL THE SITE HAS BEEN PERMANENTLY STABILIZED.
 - ALL NON PAVED AREAS TO BE TOPSOILED (4" MIN.) AND SEEDED.
 - PLACE SILT FENCE AS SHOWN ON PLAN AND PER DETAIL.
 - PROTECT ALL NEW AND EXISTING STORM BASINS WITH SEDIMENT SACKS AND REMOVE WHEN SITE IS STABILIZED. AFTER SACKS ARE REMOVED, ALL STRUCTURES TO BE CLEANED OUT.



SILT FENCE DETAIL



SILT SACK DETAIL



YARD DRAIN PROTECTION DETAIL

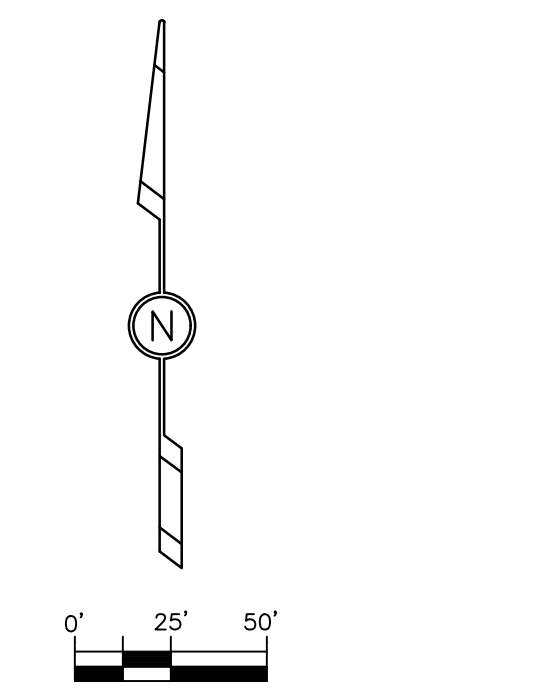
Test Hole No. Infiltration East 1
 0.0' - 1.0' Sand
 1.0' - 2.0' Lean clay with sand, brown, very stiff
 2.0' - 3.0' Lean clay, gray, very stiff
 3.0' - 4.0' Fine silty sand, frequent gravel layers
 Between 8 and 9 feet, brown, moist to wet
 Medium dense
 4.0' - 5.0' Sandy silt, gray, wet to medium dense
 Lean clay, gray, very stiff
 Water table
 10.5' - 11.7' Sandy silt, gray, wet to medium dense
 Lean clay, gray, very stiff
 Water table
 11.7' - 20.0' Water table

Test Hole No. Infiltration East 2
 0.0' - 2.2' Topsoil
 2.2' - 3.0' Lean clay, occasional sand
 Seams above 5 feet, wet
 Sandy silt layer from 6.7' to 7.1' feet brown, very stiff
 3.0' - 4.0' Lean clay, occasional gravel
 Layers between 4.5' to 15.5' feet
 Gray, very stiff to hard
 Water table
 8.0' Water table

Soil borings Infiltration West and East were taken on July 18, 2019 by Andrew Bolton at SME.



Know what's below.
Call before you dig.



SCALE: 1" = 50'
 2' CONTOUR INTERVAL (GIS)
 1' CONTOUR INTERVAL (EXCEL TOPO)

GRADING AND SOIL EROSION CONTROL PLAN
GOLDEN VALLEY ESTATES

FOR: DAN KAMPHUIS
 2828 KRAFT AVENUE SE (STE. 165)
 GRAND RAPIDS, MI 49512

IN: PART OF SECTION 33 & 34, T6N, R10W,
 CASCADE TOWNSHIP, KENT COUNTY, MICHIGAN

REVISIONS:

01/12/21	AS-BUILT-ADD POND CONTOURS
12/28/20	AS-BUILT
07/16/20	REV. PH 2 SEWER (JSV)
05/19/20	REV. PER HEALTH DEPART. (JSD)
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11/22/19	REV. SAN. FM SPECS (JSD)
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09/25/19	REV. PER OWNER (JDR)
09/23/19	REV. STORM OUTLET (JSD)
09/11/19	ADDED SOIL BORINGS (JSD)
09/03/19	REV. PER AGENCY REVIEW (JSD)
08/08/19	ADD BLOCK GRADING DETAIL (JSD)

excel engineering, inc.
 planners • engineers • surveyors
 5252 Clyde Park, S.W. • Grand Rapids, MI 49509
 Phone: (616) 531-3666 www.excelengineering.com

DRAWN BY: JSD
 APPROVED BY: DDG
 FILE NO.: 181266E

PROJ. ENG.: JSV
 PROJ. SURV.: JCB
 DATE: 07/03/2019

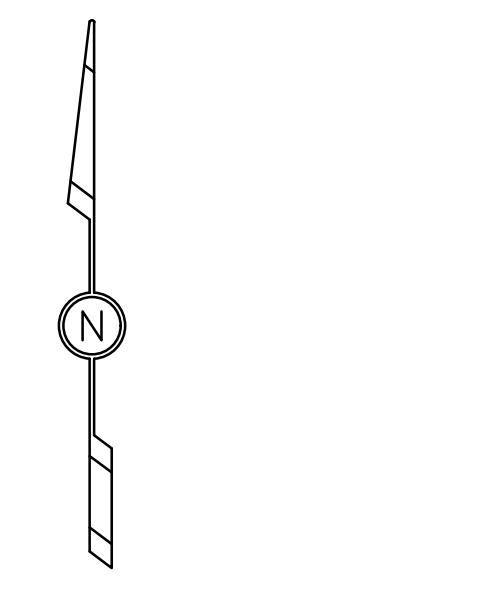
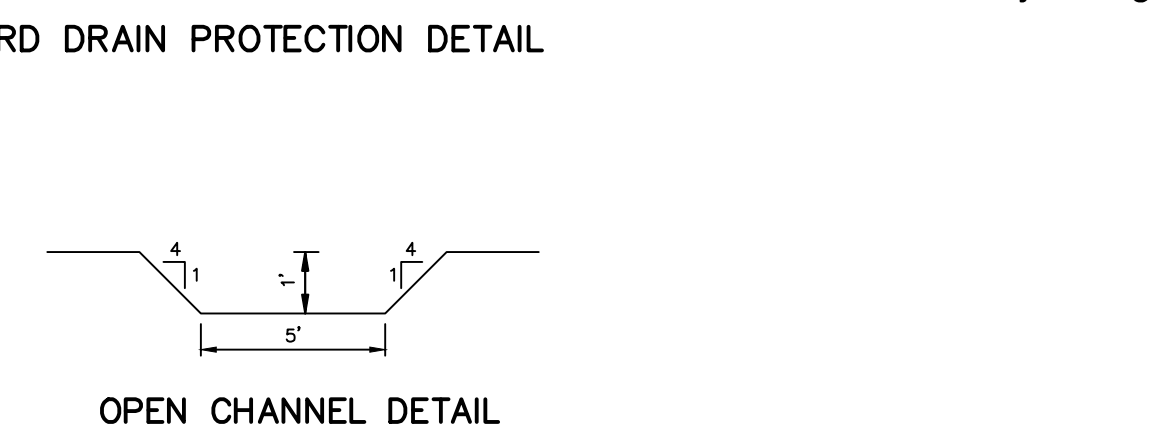
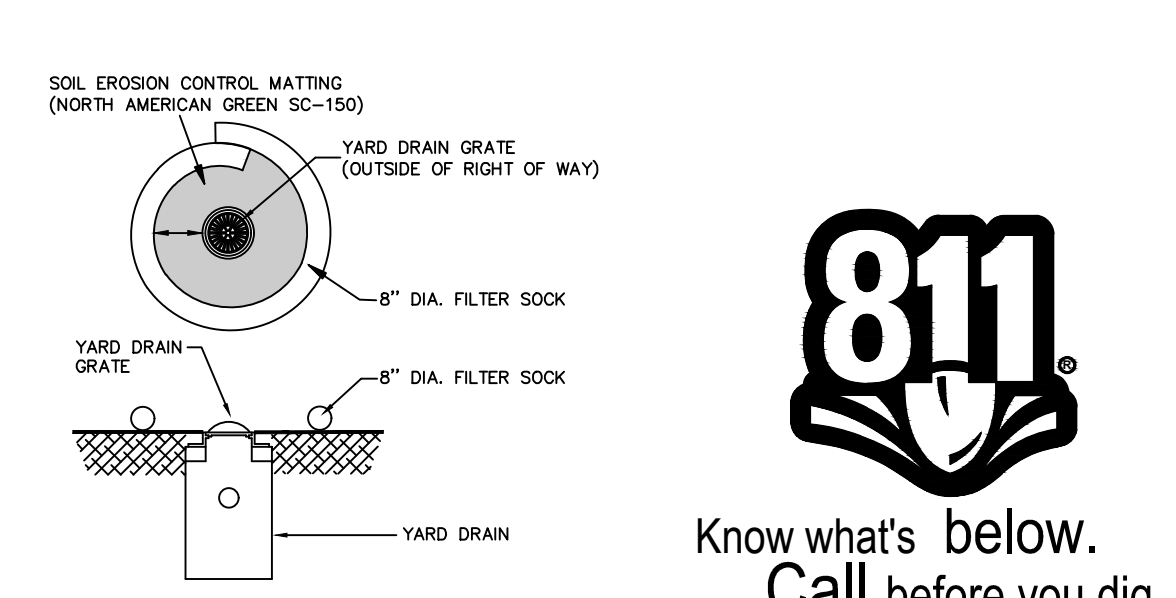
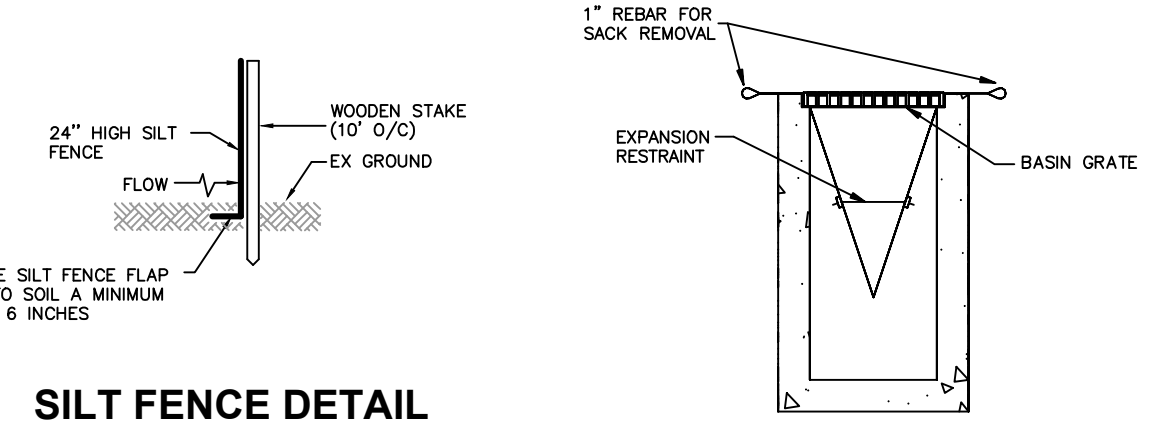
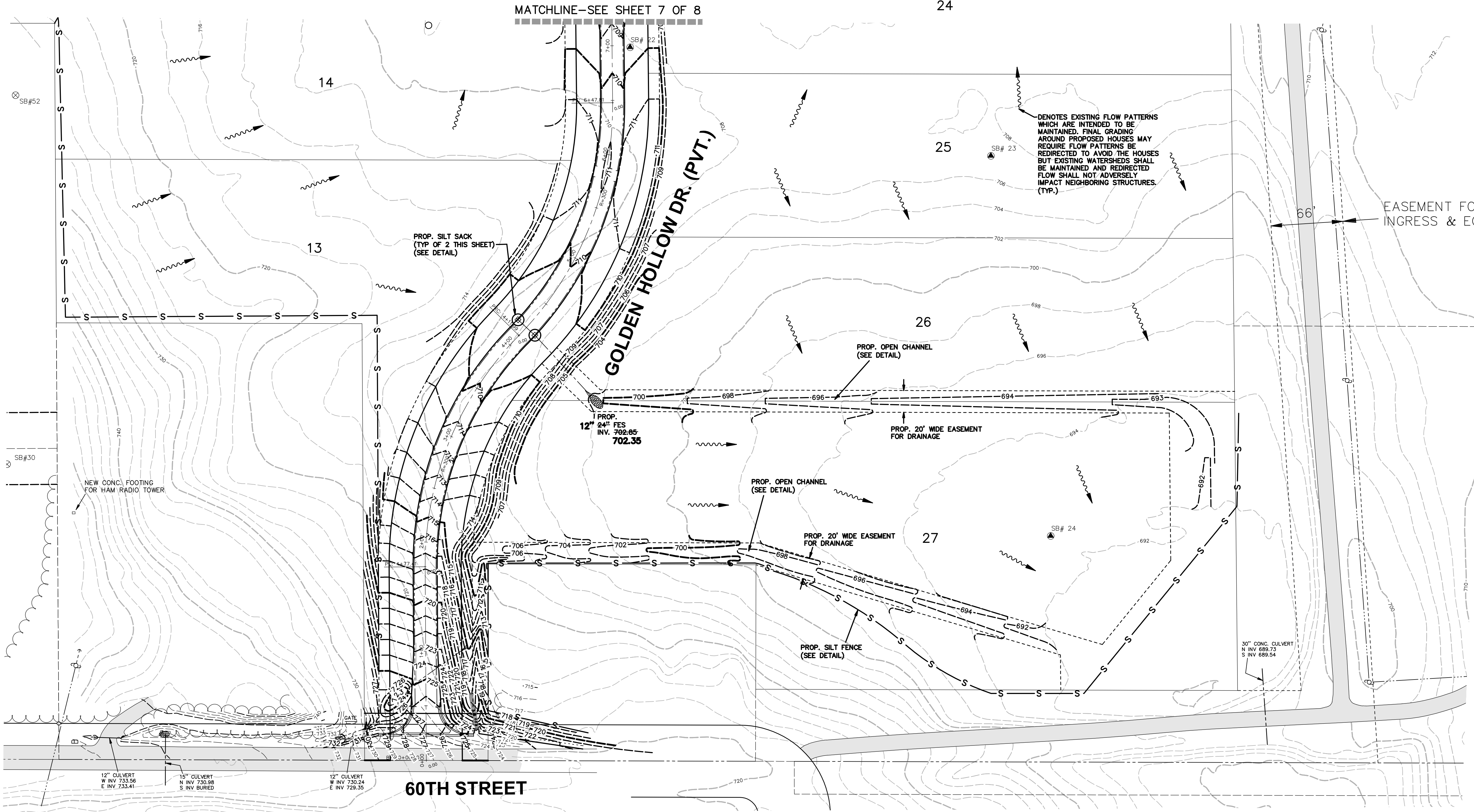
SHEET
 7 of 8

Test Hole No.	Infiltration	Soil	Depth
0.0' - 0.2'	Topsoil		
0.2' - 5.0'	Fine clayey sand, brown and gray		
5.0' - 7.0'	Very loose		
7.0' - 20.0'	Medium dense to very loose		
20.0' - 25.0'	Water table		

SB#	Soil	Depth
SB 1	Medium Fine Topsoil	0.0' - 0.5'
SB 2	Clay	0.5' - 15.0'
SB 3	Clay	15.0' - 20.0'
SB 4	Loamy Sand Topsoil	0.0' - 0.5'
SB 5	Loamy Sand	0.5' - 8.0'
SB 6	Loamy Sand	8.0' - 10.0'
SB 7	Loamy Sand	10.0' - 15.0'
SB 8	Loamy Sand	15.0' - 20.0'
SB 9	Loamy Sand	0.0' - 0.5'
SB 10	Loamy Sand	0.5' - 1.0'
SB 11	Loamy Sand	1.0' - 4.0'
SB 12	Loamy Sand	4.0' - 7.0'
SB 13	Loamy Sand	7.0' - 10.0'
SB 14	Loamy Sand	10.0' - 15.0'
SB 15	Loamy Sand	15.0' - 20.0'

SB#	Soil	Depth
SB 16	Sandy Loam Topsoil	0.0' - 0.5'
SB 17	Clay	0.5' - 6.0'
SB 18	Clay	6.0' - 13.0'
SB 19	Clay	13.0' - 16.0'
SB 20	Clay	16.0' - 17.0'
SB 21	Clay	17.0' - 20.0'
SB 22	Clay	0.0' - 20.0'
SB 23	Clay	0.0' - 20.0'
SB 24	Clay	0.0' - 20.0'

- SOIL EROSION CONTROL NOTES:**
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SCALE: 1" = 50'
 2' CONTOUR INTERVAL (GIS)
 1' CONTOUR INTERVAL (EXCEL TOPO)

GRADING AND SOIL EROSION CONTROL PLAN
GOLDEN VALLEY ESTATES

FOR: DAN KAMPHUIS
 2828 KRAFT AVENUE SE (STE. 165)
 GRAND RAPIDS, MI 49512

IN: PART OF SECTION 33 & 34, T6N, R10W,
 CASCADE TOWNSHIP, KENT COUNTY, MICHIGAN

REVISIONS 11/28/20 AS-BUILT 07/16/20 REV. PH 2 SEWER (JSV) 05/19/20 REV. PER HEALTH DEPART. (JSD) 02/12/20 REV. FOR PHASE 2 (JSD) 01/09/20 REV. STREET GRADE (JSD) 11/22/19 REV. SAN. FM SPECS (JSD) 10/03/19 REV. PER TOWNSHIP (JSD) 09/25/19 REV. PER OWNER (JDR) 09/23/19 REV. STORM OUTLET (JSD) 09/11/19 ADDED SOIL BORINGS (JSD) 09/03/19 REV. PER AGENCY REVIEW (JSD)	exel engineering, inc. planners • engineers • surveyors 5252 Clyde Park, S.W. • Grand Rapids, MI 49509 Phone: (616) 531-3666 www.excelengineering.com	DRAWN BY: JSD APPROVED BY: DDG FILE NO.: 181266E	PROJ. ENG.: JSV PROJ. SURV.: JCB DATE: 07/03/2019	SHEET 8 of 8
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08/08/19 ADD BLOCK GRADING DETAIL (JSV)

P:\Projects\2018\181266\Drawings\181266-AB.dwg, S06-GRD, 12/31/2020, 9:28:03 AM, jvanhaer



CASCADE CHARTER TOWNSHIP

2865 Thornhills SE Grand Rapids, Michigan 49546-7140

August 28, 2020

Don Kamphuis
6115 28th St
Grand Rapids MI 49546

RE: Case #20-3594 Golden Valley phase 2

Dear Don:

This is your notice of the Cascade Township Board decision to approve your final preliminary plan at their August 26, 2020. Before building permits are issued we need the following items:

1. The recorded the storm water agreement.
2. Final approval from the Township Board to verify it has been constructed according to plan.

If you have any questions please do not hesitate to call me at 949-0224.

Sincerely,

CASCADE CHARTER TOWNSHIP

Steve Peterson,
Community Development Director

Assessing
949-6176

Building
949-3765

Buildings & Grounds
682-4836

Clerk
949-1508

Fire
949-1320

Manager
949-1500

Planning
949-0224

Treasurer
949-6944



CASCADE CHARTER TOWNSHIP

2865 Thornhills SE Grand Rapids, Michigan 49546-7140

Date: January 27, 2021
To: Supervisor Lesperance and Township Board Members
From: Ben Swayze, Township Manager
Subject: City of Grand Rapids / Cascade Charter Township Consolidation and Contamination Risk Reduction (C2R2) Grant Application

FACTS:

In 2018 the Gerald R. Ford International Airport was identified as a potential PFAS pollution site. Per- and polyfluoroalkyl substances (PFAS) are a large group of man-made chemicals that include perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS). PFAS have been used globally during the past century in manufacturing, firefighting and thousands of common household and other consumer products. These chemicals are persistent in the environment and in the human body – meaning they don't break down and they can accumulate over time. In recent years, experts have become increasingly concerned by the potential effects of high concentrations of PFAS on human health. You can read more about PFAS on the State of Michigan Department of Environment, Great Lakes and Energy (EGLE) Michigan PFAS Action Response Team (MPART) website at <http://michigan.gov/pfasresponse>

The PFAS issue related to the airport actually has two investigation sites. One site is on the airport property itself (https://www.michigan.gov/pfasresponse/0,9038,7-365-86511_82704-487698--,00.html) and one is the residential area that is generally located between the airport and the Thornapple River (https://www.michigan.gov/pfasresponse/0,9038,7-365-86511_95600_95631-508872--,00.html). For ease we have identified this area as the “Burger Goodwood Neighborhood” though it has many other names as well.

While EGLE has been conducting the investigations and is the jurisdiction of authority in regards to PFAS pollution, the Township has been consistently connected with both the airport and EGLE throughout the investigation. Since March 2019, EGLE has requested to sample approximately 475 residential drinking water wells. Samples were collected from only those properties where EGLE was given permission; 364 samples were collected in five phases.

Through five sampling phases, PFAS was detected in more than 60 percent of results indicating a need to pursue a long-term solution, protective of public health for a large area. EGLE has begun to focus on pursuing a long-term solution that would consider all sampled and non-sampled drinking water wells south of 28th Street, west of the Thornapple River, east of the 36th Street exit off I-96 and north of the M-6 exit off I-96.

As part of the process to identify and implement a long-term solution, Cascade Township and the City of Grand Rapids are pursuing a Consolidation and Contamination Risk Reduction (C2R2) Grant. Through the program, grants may be awarded to drinking water systems for projects that remove or treat PFAS or other contaminants in a drinking water system, or consolidation efforts to connect a system or private residences with contaminated residential wells to a local municipal

system. The maximum grant award is \$5,000,000 and entities that own and operate a public water distribution or treatment system are eligible to apply. This opportunity was announced in late fall 2020 and the grant application period opened up in mid-December 2020

A project has been designed to extend public water to the entire Burger Goodwood Neighborhood and connect all houses to the system. The estimated cost for the entire project is \$13,230,525. Because of the large cost of the project, and the limitation on the grant award, the City and Township would divide the project into phases. Phase 1 would extend watermain and connect to the system 256 houses at a cost of \$6,049,725. If awarded the grant, the Township, City of Grand Rapids, GRF International Airport and EGLE would need to work together to determine where the remaining funds needed would come from. The grant performance period is 3 years, meaning the Township and City of Grand Rapids would have 3 years from the time of the award to complete the project

Attached for your review are:

- Schematic of the “Burger Goodwood Neighborhood Water Extension Project”
- Copy of the City of Grand Rapids/Cascade Township Consolidation and Contamination Risk Reduction (C2R2) Grant Application

ANALYSIS & CONCLUSIONS:

EGLE and the airport have been conducting the PFAS investigation since mid-2018. While the airport is leading the investigation on airport property, EGLE is leading the investigation in the Burger Goodwood Neighborhood. Prior to August 2020 there were no residential wells in the study area that tested above the previously established threshold of 70 ppt for PFOA/PFAS. In August of 2020 the Michigan legislature adopted new part 201 clean-up criteria that set the PFAS threshold significantly lower. The thresholds are now 8 ppt for PFOA, 16 ppt for PFOS and 6 ppt for PFNA. Based on these new criteria, EGLE has identified 40 wells in the Burger Goodwood Neighborhood that are considered contaminated.

Currently EGLE has issued notices to the GRFIA indicating they have been identified as the responsible party for the contamination and are awaiting the response from the airport as how they intend to remediate the contamination. The response is complicated by the fact that the airport is a federally regulated organization and property (FAA). The Township continues to stay abreast of this progress.

In the meantime, the Township has consistently indicated to all parties that we believe the extension of public utilities to the effected areas is the only acceptable remediation. To that effect we have worked with our engineering firm (Fishbeck) and the City of Grand Rapids to conceptually design a project to extend and connect all residences in this neighborhood to the public water system. As mentioned, the total cost of this project is estimated to be in the \$13 million range. The Township has also identified a “Phase 1” of this project, which would connect all of the contaminated wells (based on part 201 criteria). The total cost of that phase would be approximately \$6 million.

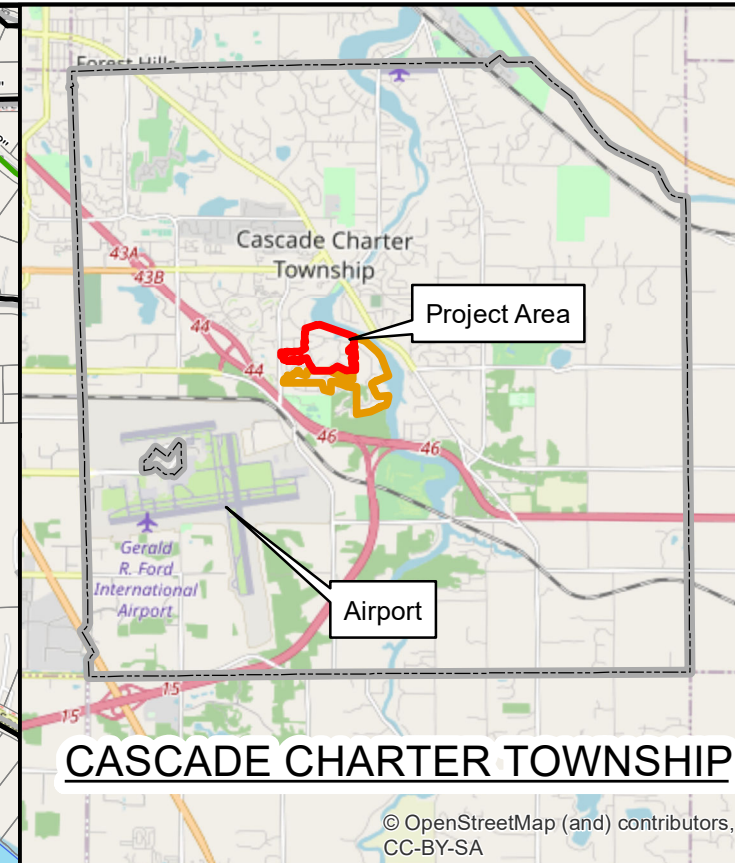
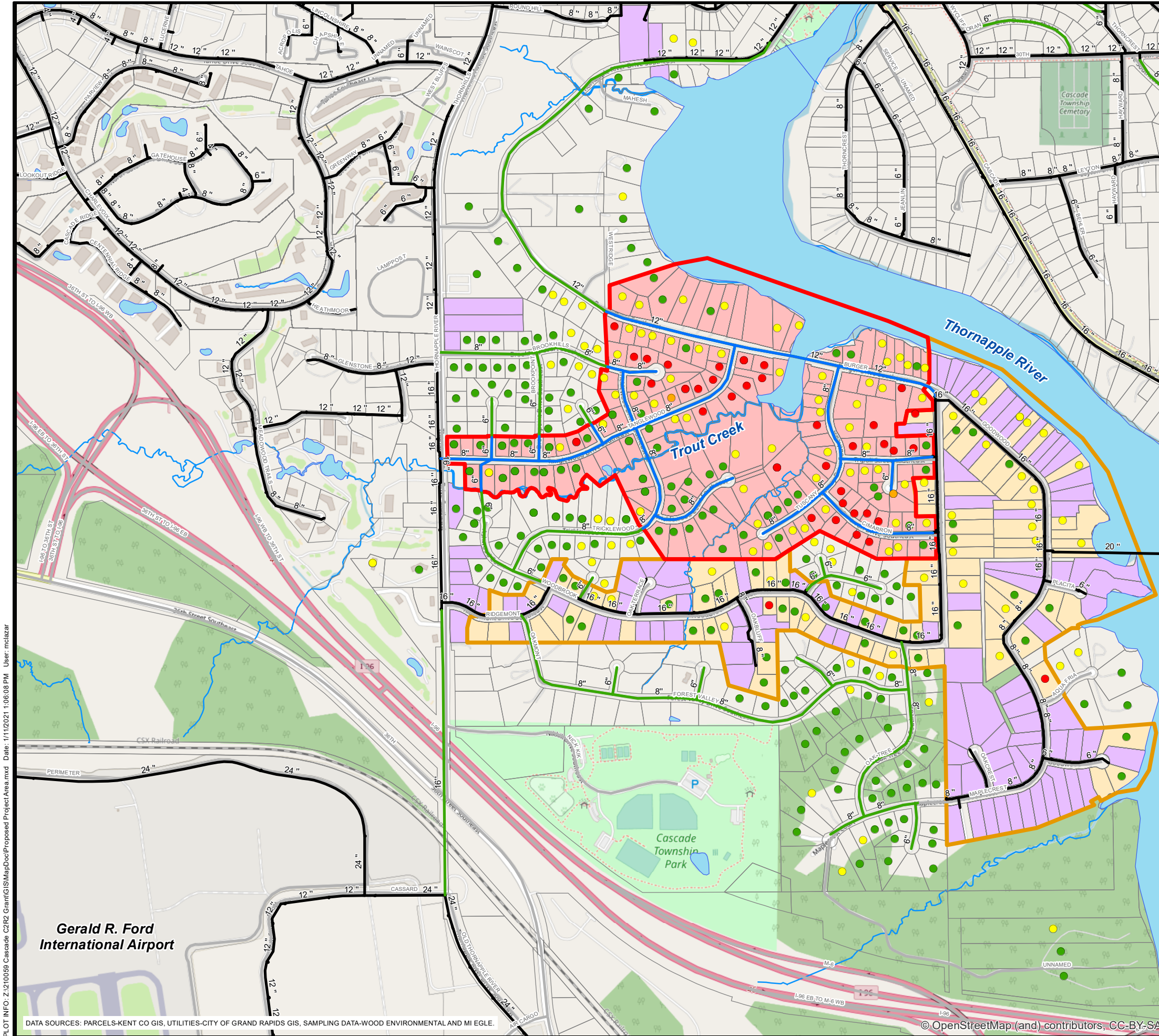
The Utility Advisory Board of the City of Grand Rapids have approved the grant application. If approved by the Township Board, the City would submit the application on or before Friday January 29th. The anticipated grant award date is on or before April 15th.

FINANCIAL CONSIDERATIONS:

The grant application is for \$5,000,000. With the cost of the “Phase 1” project \$6,049,725, additional funding will need to be identified to complete the project. This funding can come from any number of sources, including the GRFIA, Cascade Township, City of Grand Rapids system financing, local contributions or other state and federal dollars if they become available. While the remaining funding does not need to be identified now, it should be noted that it will need to be identified prior to the commencement of the project.

RECOMMENDED ACTION:

Approve the City of Grand Rapids / Cascade Charter Township Consolidation and Contamination Risk Reduction (C2R2) Grant Application and authorize the City of Grand Rapids to submit on behalf of the Township.

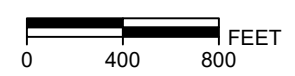


Legend

- Residential Sampling PFOA+PFOS Phase 1, 2, 3, 4 & 5
- Non-detect for PFOA and PFOS
 - Detection for PFOA or PFOS, but No Exceedance
 - Concentration of a PFAS (other than PFOA/PFOS) Compound Exceeding an MCL
 - Exceedance, PFOA>8ppt or PFOS>16ppt
 - Proposed Water Main - Phase 1
 - Future Water Main
 - Existing Water Main
 - Proposed Water Main Area - Phase 1
 - Existing Water Main Area - Phase 2
 - Currently Not Connected to Proposed Water Main - Phase 1 (168)
 - Currently Not Connected to Existing Water Main - Phase 2 (88)
 - Current City Water Customer



PROPOSED PROJECT AREA



Draft: 1/11/2021

PLOT INFO: Z:\210059 Cascade C2R2 Grant\GIS\MapDoc\Proposed Project Area.mxd Date: 1/11/2021 1:06:08 PM User: mclazar

DATA SOURCES: PARCELS-KENT CO GIS, UTILITIES-CITY OF GRAND RAPIDS GIS, SAMPLING DATA-WOOD ENVIRONMENTAL AND MI EGLE.

© OpenStreetMap (and) contributors, CC-BY-SA

Hard copy is intended to be 11"x17" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

Client
Cascade Charter Township, Kent County, Michigan

Project

PROJECT NO.
210059

FIGURE NO.
1



CONSOLIDATION AND CONTAMINATION RISK REDUCTION (C2R2) GRANT APPLICATION

Sec. 1002, 2019 PA 57

Public Act 57 of 2019, was made effective on September 29, 2019, to provide grants for the following purpose:

Sec. 1001. From the funds appropriated in part 1 for PFAS and emerging contaminants, the department shall award grants for up to \$5,000,000 to drinking water systems for contaminant remediation efforts or connection to an alternate system as well as to invest in technologies to address contaminants in public water systems.

Grants may be awarded to drinking water systems for projects that remove or treat polyfluoroalkyl substances (PFAS) or other contaminants in a drinking water system defined under state or federal drinking water regulations (apart from lead), or consolidation efforts to connect a system or private residences with contaminated residential wells to a local municipal system. Consolidation only projects must have a documented finding or concern from the Michigan Department of Environment, Great Lakes, and Energy (EGLE) staff. The maximum grant amount allowable per applicant is \$5 million. There are no local match requirements. Applications will be accepted continuously until funding is exhausted. Applications will be awarded on a quarterly funding cycle. EGLE may reevaluate program and system needs after one year. Grant applications must be received by close of business on these dates to be funded in the applicable quarterly funding cycle:

	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Application Deadline	January 31, 2021	April 30, 2021	July 31, 2021	October 31, 2021
Anticipated Grant Award Date (on or before)	April 15, 2021	July 15, 2021	October 15, 2021	January 15, 2022

Entities that own or operate a public drinking water distribution or treatment system are eligible to apply. Applicants must not appear on the Federal Debarment and Suspension List and must be in good standing with EGLE programs (i.e., no EGLE grant revoked or terminated and no demonstrated ability to manage a grant or meet obligations in a project contract with EGLE). Applicants must have proof of a successful financial audit within 24 months of grant award or receive an exemption from EGLE.

Application for C2R2 Grant

Applicant Name:

Project Name:

Project Location (city, village, or township and county):

Estimated Project Start Date (month/year):

Estimated Project End Date (month/year):

Project Contact #1 (Authorized Signatory):

Project Contact #2 (Consulting Engineer or Other):

Name:

Name:

Title:

Title:

Telephone:

Telephone:

Address:

Address:

E-mail address:

E-mail address:

Project Summary: Attach project workplan or summary pages; should include project need, what will be addressed and how, and map(s) illustrating project work areas including results of sampling efforts, if known.

Project Cost Information: Attach documentation of estimated project costs in project workplan/ summary (may include vendor estimates/quotes, contracts, etc.). Eligible project costs incurred on or after November 16, 2020, are able to be included in the grant. Grant eligible costs are those that are associated with project planning, design, and construction, or installation of equipment/ technology to address PFAS or other contaminants in drinking water; planning, design, and construction activities related to consolidation efforts; and project associated inspection costs. Additional details are discussed on the [C2R2 Grant Overview Guidance Document](#).

Any construction work greater than \$50,000 must be competitively bid unless prior EGLE approval is granted. Force account may be utilized if approved by EGLE based on acceptable justification documenting the need. Eligibility is project specific and determined on a case-by-case basis by EGLE. Costs not eligible for grant inclusion include, but are not limited to, local fees (may be eligible if fee covers tangible construction or inspection of new infrastructure associated with the grant).

Estimated Project Costs

1. Project Planning/Design Costs	
2. Project Construction Costs	
3. Equipment/Technology Costs	
4. Project Cost Subtotal	
5. Requested Grant Amount*	

*Total grant amount cannot exceed \$5,000,000

Ranking/Scoring: Projects will be batched and scored in each quarterly funding cycle. Scores will be based on the criteria established in the [C2R2 Grant Overview Guidance Document](#).

Fill in the appropriate response below:

1. Population benefitting as a result of the project:
2. Has the applicant (or system) reported PFAS levels greater than one or more of the PFAS MCL's? If yes, attach results. Yes No
3. Do residential wells being connected as a result of this project have documented sample results indicating PFAS is present? If yes, attach results. Yes No

- 4. Has the applicant (or system) had a MCL violation in the past three years? If yes, attach results. Yes No

- 5. Is consolidating systems a primary outcome of this grant? Yes No

- 6. Is the project area within or adjacent to an active or past MPART official site or area of interest? Yes No

- 7. Was the applicant’s most recent Sanitary Survey completed with no deficiencies? Yes No

I certify that the information provided in this application is complete, true, and accurate to the best of my knowledge.

Printed Name:	Print Title:	Signature:	Date:

Submit completed form and applicable attachments to EGLE-DWGrants@michigan.gov.

Or via U.S. mail to:

Michigan Department of Environment, Great Lakes, and Energy
 Finance Division - Water Infrastructure Financing Section
 525 West Allegan Street
 P.O. Box 30457
 Lansing, Michigan 48909-7957

DRAFT

For information or assistance on this publication, please contact the program, through EGLE Environmental Assistance Center at 800-662-9278. This publication is available in alternative formats upon request.

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This form and its contents are subject to the Freedom of Information Act and may be released to the public.

GRFIA – Burger Goodwood Neighborhood Project Summary

Consolidation and Contamination Risk Reduction Grant Application

Project No. 210059
January 21, 2021

DRAFT

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List of Abbreviations/Acronyms

AFFF	aqueous film forming foam
City	City of Grand Rapids
C2R2	Consolidation and Contamination Risk Reduction
FFTA	former firefighting training area
GRFIA	Gerald R. Ford International Airport
NTS	natural treatment system
Township	Cascade Township

1.0 Project Need

The Gerald R. Ford International Airport (GRFIA) is an MPART PFAS site located in Grand Rapids, Michigan and depicted in Figure 1. As noted on the MPART website, this site has operated as an airport since the 1960s. Federally required firefighting training activities and annual equipment testing have utilized PFAS containing aqueous film forming foam (AFFF).

AFFF use locations exist within the Outfall 011 drainage area. Storm water collected in the Outfall 011 drainage area flows through a permitted natural treatment system (NTS) designed to treat storm water from airfield de-icing and anti-icing areas and is then discharged to the Thornapple River. A thick layer of clay beneath the former firefighting training area (FFTA) investigation area was found between the surface and deep groundwater. Deep (beneath clay layer) groundwater flow direction in the FFTA investigation area is north/northeast. Shallow (above clay layer) perched groundwater has been identified in the FFTA investigation area. Storm water drainage flows to multiple locations off airport property toward either the Thornapple River (east) or Plaster Creek (west).

Located directly to the northeast of the GRFIA, Cascade Township’s Burger and Goodwood neighborhoods became an official MPART Area of Interest in March 2019 due to their proximity to known potential PFAS sources and local geologic features. The “Cascade Township Residential Wells” Area of Interest, located east of the 36th Street exits off I-96 and west of the Thornapple River, are depicted in Figure 2.

To date, the Michigan Department of Environment, Great Lakes and Energy (EGLE) has requested to sample approximately 475 residential drinking water wells through five sampling phases. Samples were collected from only those properties where EGLE was given permission; 364 residential drinking water wells were sampled and compared to the new Part 201 cleanup criteria made effective August 3, 2020. As summarized in Table 1 and Table 2 below, PFAS chemical levels greater than one or more of the PFAS MCLs have been detected in samples from 40 individual residential wells and one or more PFAS compounds were detected in more than 60 percent of results indicating a need to pursue a long-term solution, protective of public health. Documented sample results are provided in Appendix 1.

Table 1 - PFOS and PFOA

	Non-Detect	Detected (no exceedance)	Exceedance: PFOA (>8 ppt) , PFOS (>16 ppt) or PFNA (>6 ppt)
Number of Results	204	121	40

Table 2 - Range Total Tested PFAS

	Non-Detect	>0 to <10	<10 to <100	<100 to <200
Number of Results	142	78	137	7

2.0 Project Plan

The City of Grand Rapids (City), in partnership with Cascade Township (Township) and the Gerald R. Ford International Airport, have identified a long-term solution to address PFAS contamination in residential wells. Consolidating residential wells onto the City of Grand Rapids domestic water main, which only partially serves the neighborhood at this time, has been identified by the Township as the most effective long-term solution. The proposed project will be accomplished in phases.

Phase 1, or the proposed project area for the Consolidation and Contamination Risk Reduction (C2R2) grant, is outlined in red on Figure 2. As summarized in Table 3 below, Phase 1 proposes the construction of 11,775 feet of water main and the connection of 256 residential wells to the City of Grand Rapids domestic water main. Within Phase 1, 61% of the parcels that were sampled had detectable levels of PFAS. Assuming an average of 2.62 people per household, Phase 1 will benefit approximately 671 people.

Table 3 – Proposed Phase 1 Activities

Activity	Unit	Quantity
Proposed Water Main	Feet	12,025
Proposed Water Main and Service Connection	Each	168
Proposed Service Connection to Existing Water Main	Each	88

Future phases, identified in blue on Figure 2, will include expanding the City's domestic water main and connecting additional residential wells. Proposed future activities are summarized below in Table 4. Assuming an average of 2.62 people per household, Phase 2 will benefit approximately 569 people.

Table 4 - Proposed Future Activities

Activity	Unit	Quantity
Future Water Main	Feet	18,050
Future Water Main and Service Connection	Each	217

3.0 Estimated Project Costs

Preliminary construction estimates, broken down by phases, are provided in Table 5 and Table 6 below. The applicant is requesting the maximum grant award of \$5 million for the proposed Phase 1 activities.

Table 5 – Phase 1 Estimated Project Costs

Item	Unit	Quantity	Unit Cost	Total
Phase 1				
Water Main, 12-inch	Feet	5,100	\$165	\$841,500
Water Main, 12-inch Creek Crossing	Feet	400	\$300	\$120,000
Water Main, 8-inch	Feet	6,275	\$145	\$909,875
Water Main, 8-inch Creek Crossing	Feet	250	\$300	\$75,000
Water Service, Res, 1-inch	Each	168	\$1,500	\$252,000
Water Service Connection to Home	Each	256	\$5,650	\$1,446,400
Well Abandonment	Each	256	\$750	\$192,000
Residential Pressure Reducing Valves	Each	120	\$500	\$60,000
Construction Sub-total				\$3,896,775
Contractor mobilization, overhead, and project costs (15%)				\$584,500
Construction and estimating contingency (20%)				\$779,350
Phase 1 Preliminary Construction Estimate				\$5,260,625
Survey, Engineering Des & CA (15%)				\$789,100
Phase 1 Estimated Project Cost				\$6,049,725

Table 6 - Future Phases Estimated Project Costs

Item	Unit	Quantity	Unit Cost	Total
Water Main, 12-inch	Feet	2,800	\$165	\$462,000
Water Main, 12-inch Creek Crossing	Feet	300	\$300	\$90,000
Water Main, 8-inch	Feet	14,950	\$145	\$2,167,750
System Pressure Reducing Valve	Each	1	\$125,000	\$125,000
Water Service, Res, 1-inch	Each	217	\$1,500	\$325,500
Water Service Connection to Home	Each	217	\$5,725	\$1,242,325
Well Abandonment	Each	217	\$750	\$162,750
Residential Pressure Reducing Valves	Each	100	\$500	\$50,000
Construction Sub-total				\$4,625,325
Contractor mobilization, overhead, and project costs (15%)				\$693,800
Construction and estimating contingency (20%)				\$925,075
Future Phases Preliminary Construction Estimate				\$6,244,200
Survey, Engineering Des & CA (15%)				\$936,600
Future Phases Estimated Project Cost				\$7,180,800

4.0 Proposal Evaluation Ranking/Scoring

The following section provides additional details to the ranking/scoring questions to accompany the grant application.

1. Population benefitting as a result of the project:

The estimated population benefitting from all phases of the project is 1,240 people based on the Township average of 2.62 people per household.

2. Has the applicant (or system) reported PFAS levels greater than one or more of the PFAS MCL's?

Applicant (City of Grand Rapids) water system has not reported PFAS levels greater than one or more of the PFAS MCL's.

3. Do residential wells being connected as a result of this project have documented sample results indicating PFAS is present?

Residential wells within the project area have reported PFAS chemical levels greater than one or more of the PFAS MCLs including 40 residential wells exceeding either the PFOA limit of 8 ppt, the PFOS limit of 16 ppt, or the PFNA level of 6 ppt.

4. Has the applicant (or system) had an MCL violation in the past three years?

The MCL violation other than PFAS criteria may not apply specifically to this type of consolidation of residential wells since it is not a public system. However, the Kent County Department of Health has reported residential wells in the project area have elevated levels of Arsenic. There is additional benefit to the residents in providing public water service beyond just reducing the exposure to PFAS compounds.

5. Is consolidating systems a primary outcome of this grant?

The primary outcome of this grant is to consolidate 473 residential wells (All Phases) to the City of Grand Rapids water system.

6. Is the project area within or adjacent to an active or past MPART official site or area of interest?

The project is within an active MPART official site/area of Interest.

7. Was the applicant's most recent Sanitary Survey completed with no deficiencies?

The City of Grand Rapids most recent sanitary survey (2017) identified three deficiencies. A copy of the communication from the DEQ to the City is included in Appendix 2. The three items identified by DEQ have been addressed by the City of Grand Rapids and there are currently no outstanding deficiencies.

5.0 Timeline

Phase 1 engineering would begin immediately following the executed grant agreement, currently estimated as mid-April per the provided guidance. Engineering would be complete by late 2021 with competitive bidding expected in early 2022 and construction beginning in Spring of 2022. At this time, we expect most of the water main construction and service connections would occur during the 2022 construction season with the possibility that some final connections would be made in 2023, contingent on property owner cooperation or other challenges outside the control of the project team.

Future phases are expected to be completed after Phase 1 is complete. Future phases will first prioritize the homes that have test results indicating the presence of PFAS compounds in the wells. Water system reliability and water quality will also be a consideration when determining the priorities of future phases.

6.0 Conclusion

C2R2 grant funding will support the consolidation of residential wells in the MPART "Cascade Township Residential Wells" Area of Interest onto the City of Grand Rapids water system. When completed, the proposed project will result in the connection of 473 residential wells to the City of Grand Rapids domestic water main, benefiting approximately 1,240 people. A grant award of \$5 million from EGLE would result in \$8.23 million additional investment to address PFAS-contaminated residential wells.

Figures

Gerald R. Ford International Airport (GFIA) PFAS Investigation

All locations are approximate

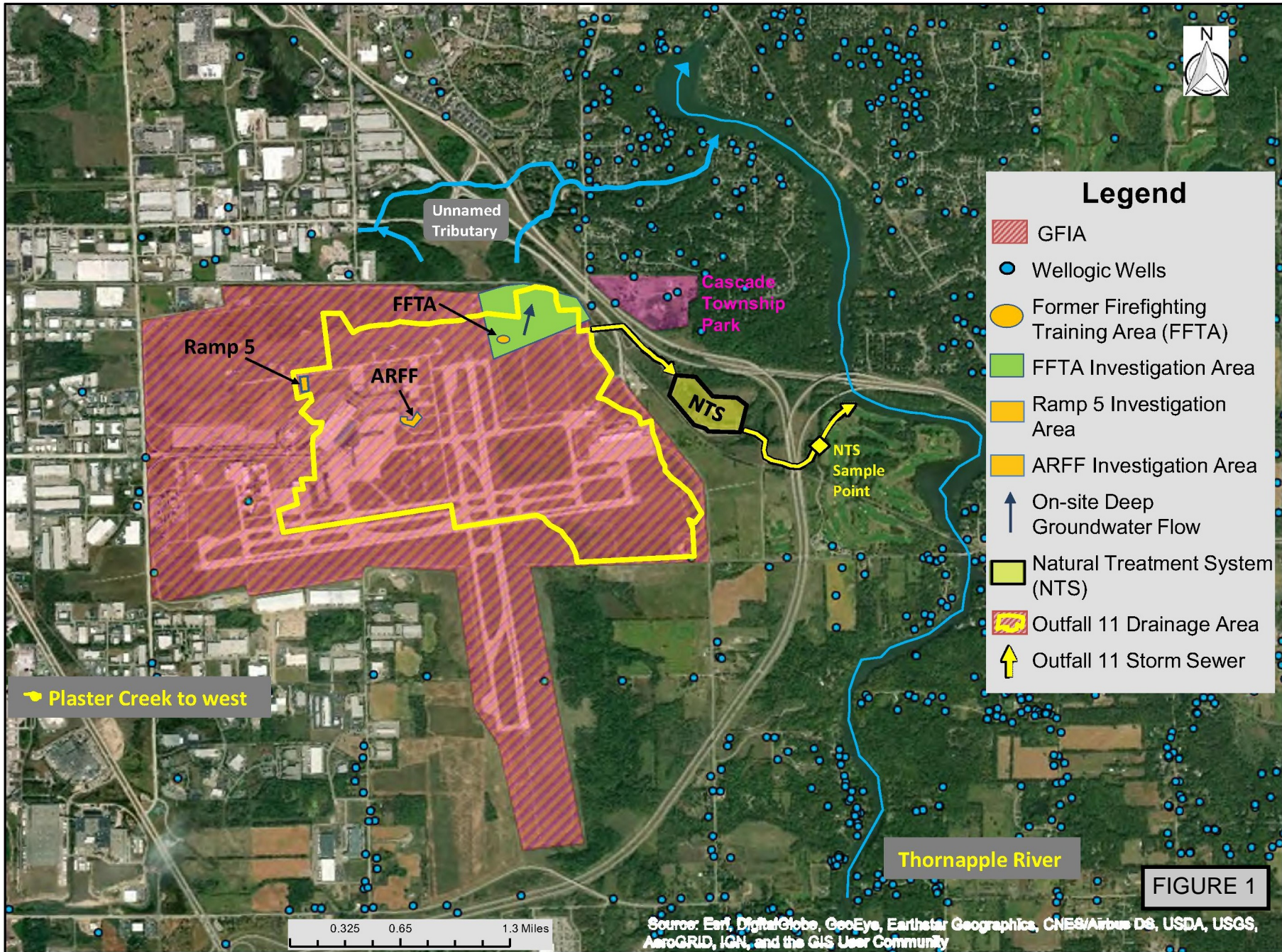
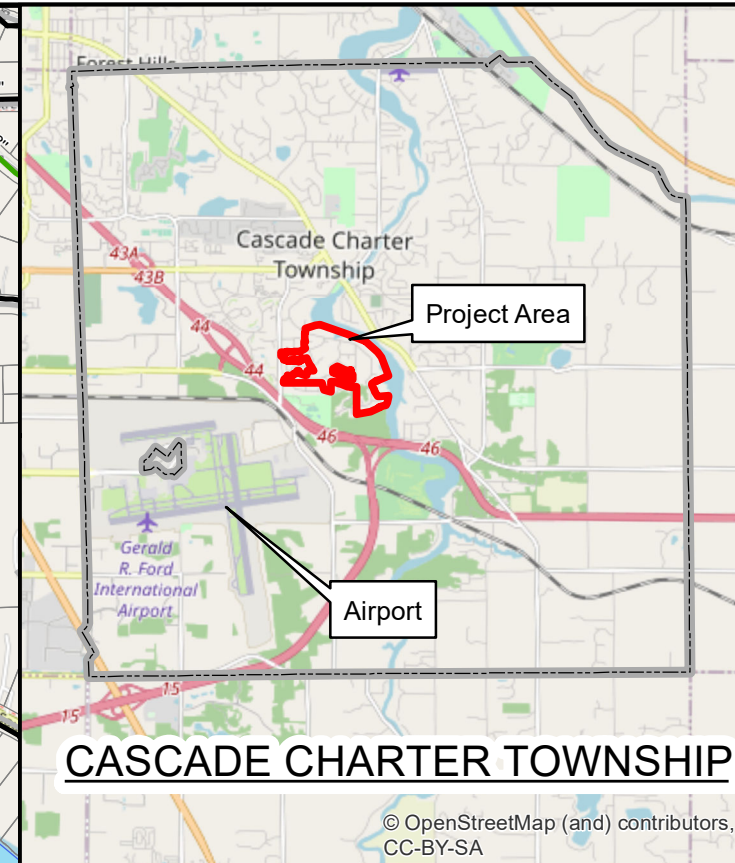
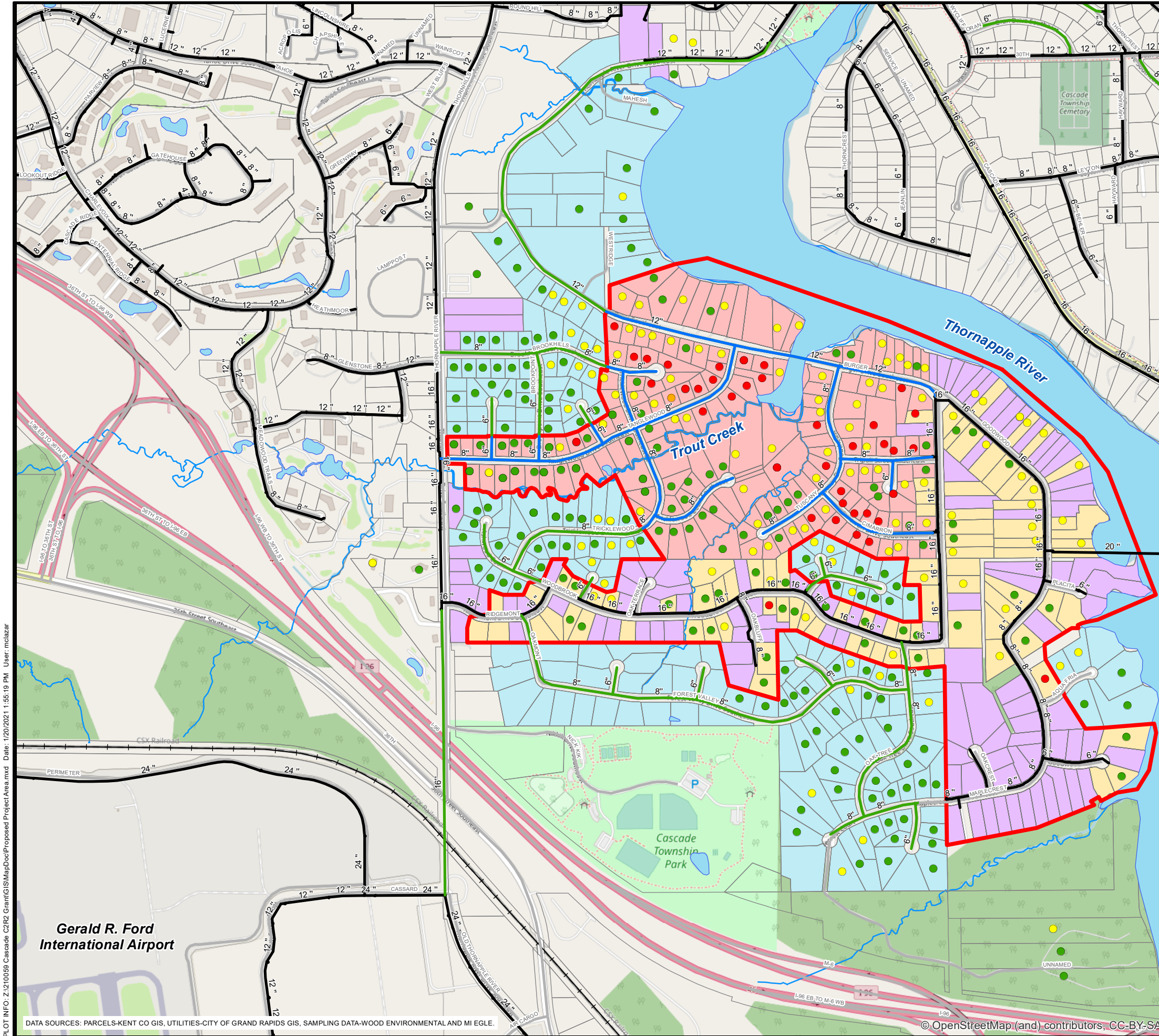


FIGURE 1



CASCADE CHARTER TOWNSHIP

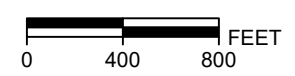
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Legend

- Residential Sampling PFOA+PFOS Phase 1, 2, 3, 4 & 5
- Non-detect for PFOA and PFOS
 - Detection for PFOA or PFOS, but No Exceedance
 - Concentration of a PFAS (other than PFOA/PFOS) Compound Exceeding an MCL
 - Exceedance, PFOA>8ppt or PFOS>16ppt
 - Proposed Water Main
 - Future Water Main
 - Existing Water Main
 - Proposed Project
 - Proposed Water Main and Service Connection (168)
 - Proposed Service Connection to Existing Water Main (88)
 - Future Water Main and Service Connection (217)
 - Current City Water Customer



PROPOSED PROJECT AREA



PLOT INFO: Z:\210059 Cascade C2R2 Grant\GIS\MapDoc\Proposed Project Area.mxd Date: 1/20/2021 1:56:19 PM User: mclizar

DATA SOURCES: PARCELS-KENT CO GIS, UTILITIES-CITY OF GRAND RAPIDS GIS, SAMPLING DATA-WOOD ENVIRONMENTAL AND MI EGLE.

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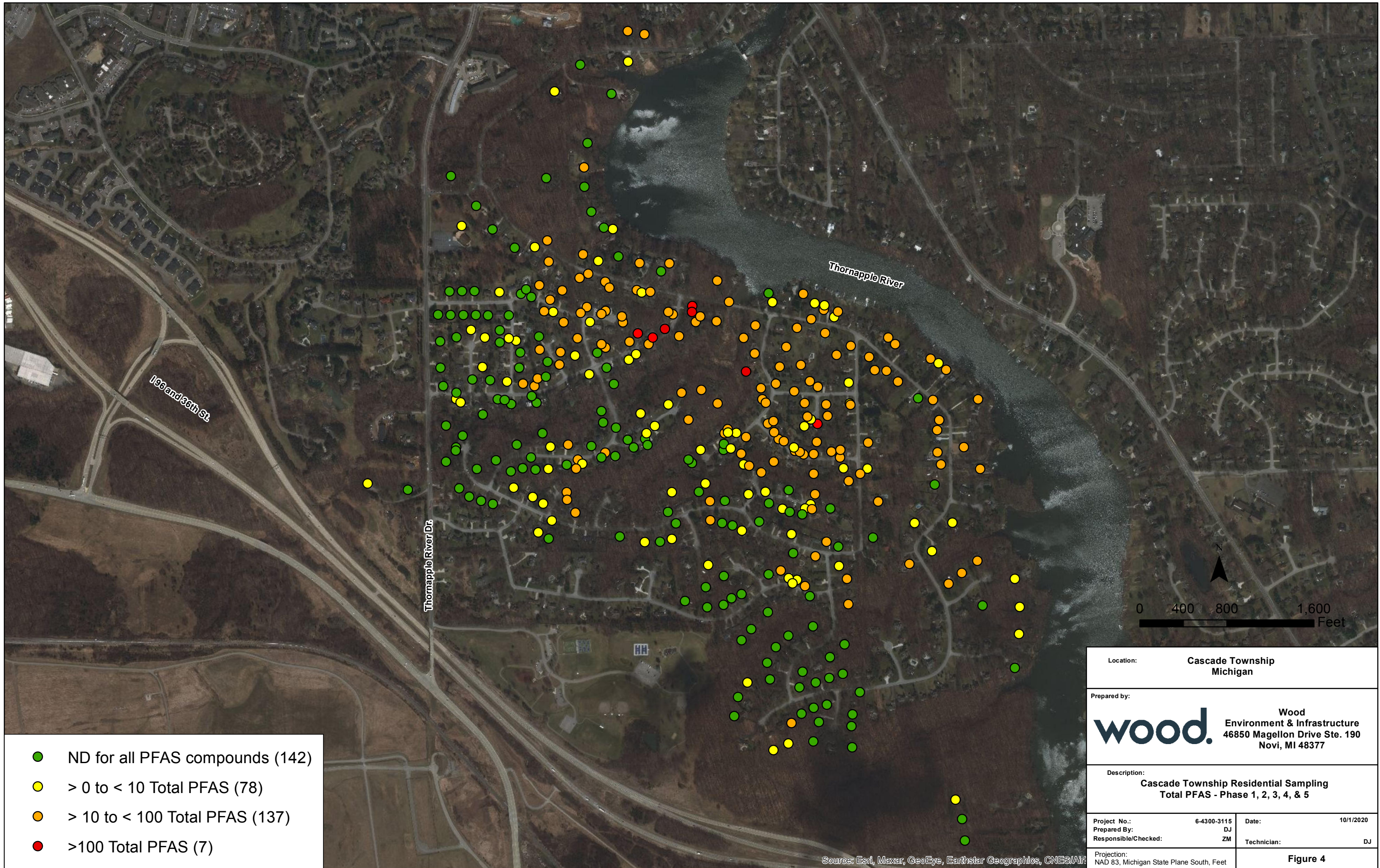
Hard copy is intended to be 11"x17" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

Cascade Charter Township & City of Grand Rapids & Gerald R. Ford International Airport
GRFIA - Burger Goodwood Neighborhood

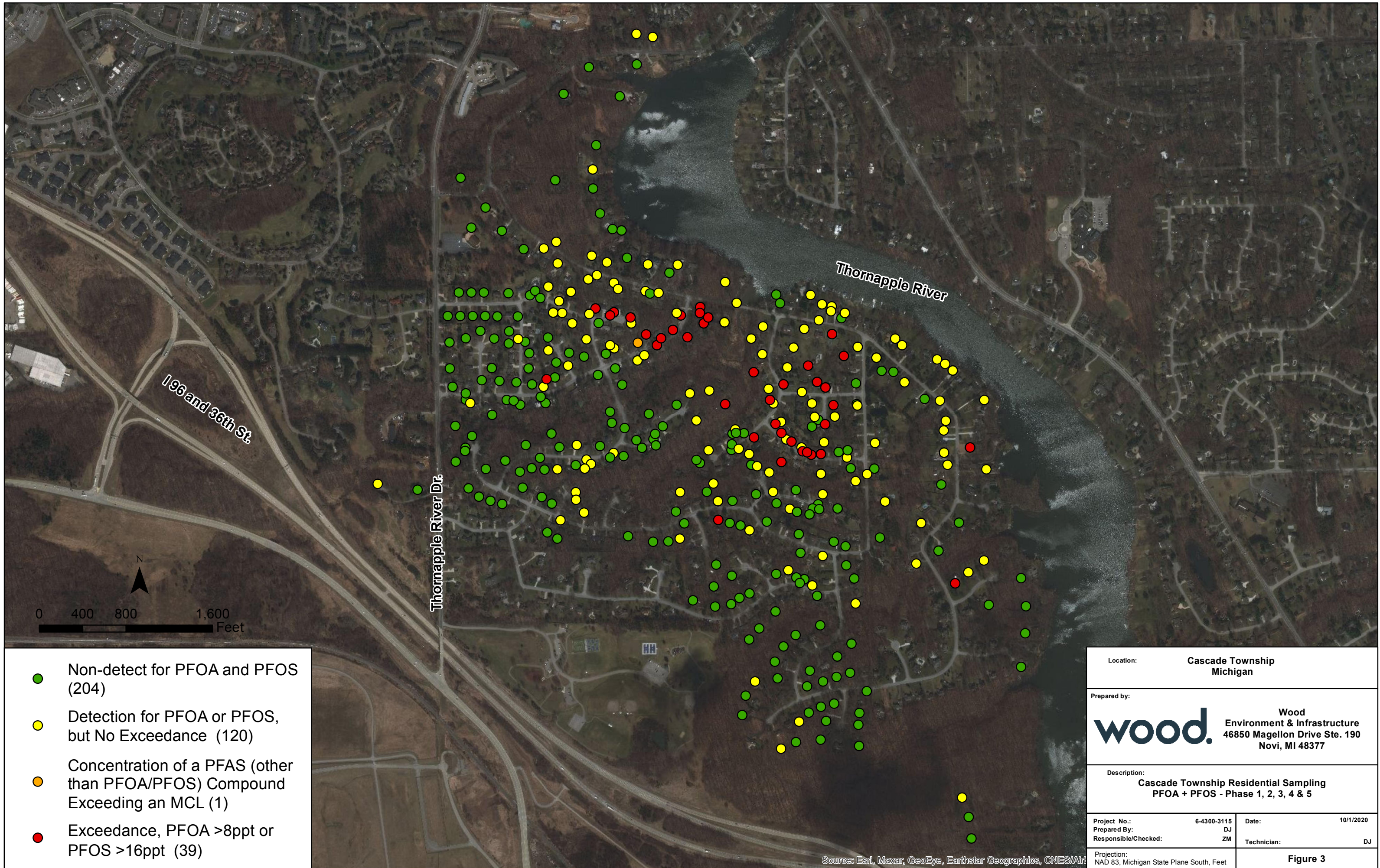
PROJECT NO.
210059

FIGURE NO.
2


Appendix 1



- ND for all PFAS compounds (142)
- > 0 to < 10 Total PFAS (78)
- > 10 to < 100 Total PFAS (137)
- > 100 Total PFAS (7)



- Non-detect for PFOA and PFOS (204)
- Detection for PFOA or PFOS, but No Exceedance (120)
- Concentration of a PFAS (other than PFOA/PFOS) Compound Exceeding an MCL (1)
- Exceedance, PFOA >8ppt or PFOS >16ppt (39)

Location:		Cascade Township Michigan	
Prepared by:		 Wood Environment & Infrastructure 46850 Magellan Drive Ste. 190 Novi, MI 48377	
Description:		Cascade Township Residential Sampling PFOA + PFOS - Phase 1, 2, 3, 4 & 5	
Project No.:	6-4300-3115	Date:	10/1/2020
Prepared By:	DJ	Technician:	DJ
Responsible/Checked:	ZM		
Projection:		NAD 83, Michigan State Plane South, Feet Figure 3	

Cascade Township Residential Sampling
PFAS Analytical Results
Phases 1-4

Client ID	Sample Date	ANALYTE	NEtFOSAA	NMeFOSAA	PFBS	PFDA	PFDoA	PFHpA	PFHxA	PFHxS	PFNA	PFOA	PFOS	PFTA	PFTrDA	PFUnA	TOTAL
		CAS #	2991-50-6	2355-31-9	375-73-5	335-76-2	307-55-1	375-85-9	307-24-4	355-46-4	375-95-1	335-67-1	1763-23-1	376-06-7	72629-94-8	2058-94-8	PFAS
		Carbon Chain Length	C8	C8	C4	C10	C12	C7	C6	C6	C9	C8	C8	C14	C13	C11	
		EGLE DW Criteria	NA	NA	420	NA	NA	NA	400,000	51	6	8	16	NA	NA	NA	NA
		Well Depth															
1006497	11/18/2019	115	ND	ND	ND	ND	ND	ND	3.15J	4.07J	ND	ND	ND	ND	ND	ND	7.22
1006511	11/18/2019	69	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006529-BR	11/21/2019	65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006540	11/18/2019	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006560-BR	11/18/2019	41	ND	ND	ND	ND	ND	ND	ND	1.62J	ND	ND	11.4B	ND	ND	ND	13.02
1006565-BR	11/18/2019	150	ND	ND	ND	ND	ND	1.8J	4.58J	4.52J	3.47J	4.11J	9.59	ND	ND	ND	28.07
1006581	11/18/2019	135	ND	ND	ND	ND	ND	3.03J	6.83J	4.22J	4.21J	6.17J	13.4	ND	ND	ND	37.86
1006617	11/18/2019	Unknown	ND	ND	ND	ND	ND	2.82J	7.09J	3.87J	4.76J	5.44J	12.5	ND	ND	ND	36.48
1006578	8/19/2019	Unknown	ND	ND	ND	ND	ND	2.40J	2.95J	ND	2.84J	1.58J	ND	ND	ND	ND	9.77
1006614	8/22/2019	Unknown	ND	ND	4.18J	ND	ND	ND	6.26J	1.65J	ND	2.48J	ND	ND	ND	ND	14.57
1006633	8/22/2019	96	ND	ND	1.68J	ND	ND	5.79J	18.4	7.85J	3.85J	11.3	17.5	ND	ND	ND	66.37
1006636	8/22/2019	Unknown	ND	ND	1.27J	ND	ND	ND	ND	3.37J	ND	ND	ND	ND	ND	ND	4.64
1006651	8/22/2019	91	ND	ND	6.50J	ND	ND	6.64J	16.3	13.8	ND	10.4	3.84J	ND	ND	ND	57.48
1006654	8/22/2019	Unknown	ND	ND	1.88J	ND	ND	4.57J	13	10.1	4.60J	8.96	23.9	ND	ND	ND	67.01
1006668-BR	8/22/2019	Unknown	ND	ND	2.78J	ND	ND	4.66J	10.9	12.1	4.06J	7.78J	13.1	ND	ND	ND	55.38
1006669	8/22/2019	Unknown	ND	ND	8.86	ND	ND	9.65	22.2	14.6	2.01J	15.5	6.51J	ND	ND	ND	79.33
1003446	5/14/2019	130'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1003461	5/14/2019	40'	ND	ND	5.82J	ND	ND	ND	1.73J	ND	ND	ND	ND	ND	ND	ND	7.55
1003373	8/19/2019	85	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1003410	8/19/2019	67	ND	ND	ND	ND	ND	ND	2.09J	2.62J	ND	ND	ND	ND	ND	ND	4.71
1003430	8/22/2019	118	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1003370	12/4/2019	94	ND	ND	ND	ND	ND	ND	ND	2.24J	ND	ND	1.99B	ND	ND	ND	4.23
1006480	11/19/2019	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006534	11/19/2019	NA	ND	ND	ND	ND	ND	ND	3.19J	3.52J	ND	1.52J	ND	ND	ND	ND	8.23
1006552	11/21/2019	88	ND	ND	1.29J	ND	ND	1.59J	4.21J	5.32J	ND	3.25J	4.53J	ND	ND	ND	20.19
1006575	11/19/2019	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006576	11/19/2019	89	ND	ND	2.28J	ND	ND	1.8J	5.36J	6.86J	ND	3.28J	1.88J	ND	ND	ND	21.46
1006931-BU	11/19/2019	NA	ND	ND	3.44J	ND	ND	ND	ND	1.41J	ND	1.96J	4.65J	ND	ND	ND	11.46
1006937	11/19/2019	NA	ND	ND	2.37J	ND	ND	2.75J	8.76	4.06J	ND	4.64J	7.47J	ND	ND	ND	30.05
1006943	12/4/2019	99	ND	ND	ND	ND	ND	ND	2.62J	ND	ND	ND	2.87B	ND	ND	ND	5.49
1006953	12/4/2019	84	ND	ND	ND	ND	ND	ND	3.34J	ND	ND	ND	3.59B	ND	ND	ND	6.93
1006964	11/19/2019	45	ND	ND	6.31J	ND	ND	7.22J	14.5	6.52J	ND	14.9	7.3J	ND	ND	ND	56.75
1006965-BU	11/19/2019	77	ND	ND	ND	ND	ND	ND	1.85J	ND	ND	ND	ND	ND	ND	ND	1.85
1006985-BU	11/19/2019	119	ND	ND	11.8	ND	ND	1.94J	5.92J	4.17J	ND	7.1J	9.09	ND	ND	ND	40.02
1007031	11/20/2019	123	ND	ND	3.42J	ND	ND	2.66J	6.85J	4.44J	1.48J	5.64J	4.41J	ND	ND	ND	28.9
1007039	11/20/2019	NA	ND	ND	3.76J	ND	ND	3.81J	10.3	4.96J	ND	8.12J	1.65J	ND	ND	ND	32.6
1007070	11/20/2019	33	ND	ND	4.04J	ND	ND	ND	1.82J	5.24J	ND	ND	ND	ND	ND	ND	11.1
1007115	11/20/2019	125	ND	ND	3.09J	ND	ND	1.86J	4.98J	3.72J	ND	1.75J	2.84J	ND	ND	ND	18.24
1007150	11/20/2019	65	ND	ND	18.5	ND	ND	ND	3.82J	7.32J	ND	2.25J	ND	ND	ND	ND	31.89
1007160	11/20/2019	74	ND	ND	1.76J	ND	ND	ND	4.52J	6.63J	ND	ND	ND	ND	ND	ND	12.91
1007180	12/4/2019	NA	ND	ND	ND	ND	ND	ND	ND	6.49J	ND	ND	ND	ND	ND	ND	6.49
1007190	11/19/2019	102	ND	ND	2.24J	ND	ND	1.66J	5.87J	3.54J	ND	3.6J	3.02J	ND	ND	ND	19.93

Cascade Township Residential Sampling
PFAS Analytical Results
Phases 1-4

Client ID	Sample Date	ANALYTE	NEtFOSAA	NMeFOSAA	PFBS	PFDA	PFDoA	PFHpA	PFHxA	PFHxS	PFNA	PFOA	PFOS	PFTA	PFTTrDA	PFUnA	TOTAL	
		CAS #	2991-50-6	2355-31-9	375-73-5	335-76-2	307-55-1	375-85-9	307-24-4	355-46-4	375-95-1	335-67-1	1763-23-1	376-06-7	72629-94-8	2058-94-8	PFAS	
		Carbon Chain Length	C8	C8	C4	C10	C12	C7	C6	C6	C9	C8	C8	C8	C14	C13	C11	
		EGLE DW Criteria	NA	NA	420	NA	NA	NA	400,000	51	6	8	16	NA	NA	NA	NA	NA
		Well Depth																
1007231	11/20/2019	NA	ND	ND	1.32J	ND	ND	ND	2.72J	4.14J	ND	ND	2B	ND	ND	ND	10.18	
1007275	12/2/2019	72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1007288	12/2/2019	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1007085	8/20/2019	67	ND	ND	2.70J	ND	ND	ND	2.07J	4.33J	ND	ND	ND	ND	ND	ND	9.1	
1006522	8/21/2019	66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006608	8/21/2019	Unknown	ND	ND	5.57J	ND	ND	5.29J	15.9	12.1	ND	9.66	3.11J	ND	ND	ND	51.63	
1006611	8/22/2019	Unknown	ND	ND	1.37J	ND	ND	ND	4.95J	3.78J	ND	ND	2.19J	ND	ND	ND	12.29	
1006625	8/22/2019	Unknown	ND	ND	ND	ND	ND	ND	1.72J	ND	ND	ND	ND	ND	ND	ND	1.72	
1006630	8/20/2019	Unknown	ND	ND	2.53J	ND	ND	1.75J	4.93J	4.79J	ND	3.34J	ND	ND	ND	ND	17.34	
1006643	8/20/2019	Unknown	ND	ND	ND	ND	ND	ND	2.98J	2.91J	ND	ND	2.31J	ND	ND	ND	8.2	
1006650-BU	8/22/2019	Unknown	ND	ND	3.49J	ND	ND	2.31J	7.31J	7.83J	ND	4.76J	2.91J	ND	ND	ND	28.61	
1006668-BU	8/21/2019	109'	ND	ND	5.01J	ND	ND	2.47J	7.96J	7.24J	ND	4.30J	2.73J	ND	ND	ND	29.71	
1006677	8/22/2019	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006681-BU	8/21/2019	138	ND	ND	1.74J	ND	ND	ND	2.10J	3.15J	ND	1.59J	2.33J	ND	ND	ND	10.91	
1006684	8/21/2019	Unknown	ND	ND	4.16J	ND	ND	2.06J	6.85J	5.31J	ND	3.89J	1.59J	ND	ND	ND	23.86	
1006704	8/21/2019	87	ND	ND	1.73J	ND	ND	ND	3.96J	ND	ND	ND	ND	ND	ND	ND	5.69	
1006717-BU	8/22/2019	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006718	8/21/2019	Unknown	ND	ND	2.37J	ND	ND	2.29J	8.07J	4.93J	ND	2.20J	ND	ND	ND	ND	19.86	
1006920	8/20/2019	Unknown	ND	ND	4.99J	ND	ND	4.18J	8.38J	4.00J	ND	5.57J	5.31J	ND	ND	ND	32.43	
1006944	8/20/2019	Unknown	ND	ND	5.46J	ND	ND	4.25J	7.90J	4.11J	ND	5.97J	3.73	ND	ND	ND	31.42	
1007105	8/20/2019	68	ND	ND	3.29J	ND	ND	ND	3.17J	2.94J	ND	ND	ND	ND	ND	ND	9.4	
1006727	5/14/2019	43'	ND	ND	2.01J	ND	ND	2.81J	10.3	5.95J	ND	3.33J	2.69J	ND	ND	ND	27.09	
1006800-DR	5/14/2019	129'	ND	ND	1.61J	ND	ND	3.90J	9.84	4.49J	2.50J	7.87J	15.1	ND	ND	ND	45.31	
1006811	5/15/2019	50'	ND	ND	10.6	ND	ND	ND	ND	1.76J	ND	3.28J	3.31J	ND	ND	ND	18.95	
1006825	5/13/2019	Unknown	ND	ND	ND	ND	ND	2.05J	8.26J	1.72J	ND	3.92J	10.7	ND	ND	ND	26.65	
1006881	5/15/2019	41'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006891	5/14/2019	54'	ND	ND	ND	ND	ND	ND	2.53J	ND	ND	ND	ND	ND	ND	ND	2.53	
1006878	11/20/2019	NA	ND	ND	9.94	ND	ND	5.64J	22	6.15J	ND	13.8	4.33B	ND	ND	ND	61.86	
1006900-CI	11/20/2019	128	ND	ND	10.6	ND	ND	6.68J	25	5.18J	ND	15.2	7.82B	ND	ND	ND	70.48	
1006916-CI	11/20/2019	NA	ND	ND	3.9J	ND	ND	1.91J	4.62J	2.88J	ND	8.05J	3.74B	ND	ND	ND	25.1	
1006932	11/20/2019	59	ND	ND	4.43J	ND	ND	2.21J	5.43J	3.32J	ND	7.25J	3.49B	ND	ND	ND	26.13	
1006950	11/20/2019	105	ND	ND	4.66J	ND	ND	2.54J	9.54	3.51J	ND	5.85J	2.77B	ND	ND	ND	28.87	
1006986	12/2/2019	NA	ND	ND	1.49J	ND	ND	ND	5.44J	ND	ND	ND	ND	ND	ND	ND	6.93	
1006860	8/21/2019	Unknown	ND	ND	4.74J	ND	ND	2.40J	7.52J	4.59J	ND	5.74J	1.94J	ND	ND	ND	26.93	
1006865	8/20/2019	Unknown	ND	ND	6.65J	ND	ND	4.86J	12.1	5.05J	ND	10.4	6.95J	ND	ND	ND	46.01	
1006871	8/20/2019	63	ND	ND	7.66J	ND	ND	5.28J	22	7.64J	ND	10.3	14.1	ND	ND	ND	66.98	
1006885	8/20/2019	63	ND	ND	11.6	ND	ND	4.17J	15.3	5.75J	ND	10.7	13.6	ND	ND	ND	61.12	
1006901	8/20/2019	66	ND	ND	14.7	ND	ND	8.15J	31.7	7.23J	2.26J	20.8	14.1	ND	ND	ND	98.94	
1006923	8/20/2019	63	ND	ND	6.26J	ND	ND	3.50J	10.8	4.38J	ND	10.6	4.25J	ND	ND	ND	44.04	
1006985	8/20/2019	Unknown	ND	ND	4.51J	ND	ND	2.38J	6.61J	7.51J	ND	3.46J	ND	ND	ND	ND	24.47	
1006941	5/15/2019	58'	ND	ND	2.72J	ND	ND	3.23J	12.4	5.97J	ND	4.63J	ND	ND	ND	ND	28.95	
1006965	5/14/2019	77'	ND	ND	2.77J	ND	ND	ND	4.96J	6.09J	ND	ND	ND	ND	ND	ND	13.82	

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		CAS #	2991-50-6	2355-31-9	375-73-5	335-76-2	307-55-1	375-85-9	307-24-4	355-46-4	375-95-1	335-67-1	1763-23-1	376-06-7	72629-94-8	2058-94-8	PFAS
		Carbon Chain Length	C8	C8	C4	C10	C12	C7	C6	C6	C9	C8	C8	C14	C13	C11	
		EGLE DW Criteria	NA	NA	420	NA	NA	NA	400,000	51	6	8	16	NA	NA	NA	NA
		Well Depth															
1006886-FO	11/21/2019	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.68J	ND	ND	ND	1.68
1006897	11/21/2019	NA	ND	ND	ND	ND	ND	ND	2.44J	2.76J	ND	ND	ND	ND	ND	ND	5.2
1006900-FO	11/21/2019	81	ND	ND	2.36J	ND	ND	ND	3.93J	3.45J	ND	ND	ND	ND	ND	ND	9.74
1006914-FO	12/2/2019	118	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006925-FO	11/21/2019	63	ND	ND	2.68J	ND	ND	ND	ND	2.23J	ND	ND	ND	ND	ND	ND	4.91
1006905	5/14/2019	Unknown	ND	ND	3.33J	ND	ND	ND	4.41J	3.35J	ND	1.56J	ND	ND	ND	ND	12.65

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Client ID	Sample Date	ANALYTE	NEtFOSAA	NMeFOSAA	PFBS	PFDA	PFDoA	PFHpA	PFHxA	PFHxS	PFNA	PFOA	PFOS	PFTA	PFTTrDA	PFUnA	TOTAL	
		CAS #	2991-50-6	2355-31-9	375-73-5	335-76-2	307-55-1	375-85-9	307-24-4	355-46-4	375-95-1	335-67-1	1763-23-1	376-06-7	72629-94-8	2058-94-8	PFAS	
		Carbon Chain Length	C8	C8	C4	C10	C12	C7	C6	C6	C9	C8	C8	C8	C14	C13	C11	
		EGLE DW Criteria	NA	NA	420	NA	NA	NA	400,000	51	6	8	16	NA	NA	NA	NA	NA
		Well Depth																
1003425	11/20/2019	79	ND	ND	3.58J	ND	ND	2.7J	7.62J	15.9	ND	4.96J	7.8B	ND	ND	ND	42.56	
1003426	11/20/2019	NA	ND	ND	5.36J	ND	ND	ND	2.63J	10.4	ND	2.52J	4.4B	ND	ND	ND	25.31	
1003434-GO	11/20/2019	121	ND	ND	3.58J	ND	ND	ND	3.25J	11	ND	2.37J	4.35B	ND	ND	ND	24.55	
1003439	11/20/2019	NA	ND	ND	6.41J	ND	ND	ND	3.51J	6.07J	ND	ND	ND	ND	ND	ND	15.99	
1003455	11/20/2019	85	ND	ND	11	ND	ND	2.18J	8.01J	8.55	ND	4.69J	2.46J	ND	ND	ND	36.89	
1003468	11/20/2019	77	ND	ND	2.11J	ND	ND	ND	ND	2.21J	ND	ND	2.68B	ND	ND	ND	7	
1003475	11/20/2019	112	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1003480	11/20/2019	NA	ND	ND	13.3	ND	ND	1.92J	6.95J	7.04J	ND	5.97J	8.09J	ND	ND	ND	43.27	
1003491	11/20/2019	NA	ND	ND	8.84	ND	ND	ND	3.24J	1.93J	ND	4.32J	ND	ND	ND	ND	18.33	
1003506-GO	11/20/2019	67	ND	ND	6.76J	ND	ND	1.69J	6.16J	5.62J	ND	5.08J	2.57B	ND	ND	ND	27.88	
1003517-GO	11/21/2019	108	ND	ND	12.2J	ND	ND	ND	2.96J	5.4J	ND	2.81J	3.89J	ND	ND	ND	27.26	
1003539-GO	11/21/2019	NA	ND	ND	3.7J	ND	ND	2.42J	16.3	1.61J	ND	7.82J	1.86J	ND	ND	ND	33.71	
1003558	11/20/2019	57	ND	ND	10.2	ND	ND	4.2J	6.47J	5.47J	ND	8.81	8.29B	ND	ND	ND	43.44	
1003584	11/20/2019	NA	ND	ND	1.57J	ND	ND	3.29J	6.42J	7.89J	ND	6.94J	ND	ND	ND	ND	26.11	
1003593	11/20/2019	108	ND	ND	6.48J	ND	ND	1.89J	12	3.17J	ND	4.46J	2.71B	ND	ND	ND	30.71	
1003648	11/20/2019	41	ND	ND	ND	ND	ND	ND	ND	7.37J	ND	ND	ND	ND	ND	ND	7.37	
1003651	11/21/2019	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1003669	11/20/2019	72	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.24J	ND	ND	ND	2.24	
1003700	11/20/2019	NA	ND	ND	1.71J	ND	ND	ND	2.55J	4.15J	ND	ND	ND	ND	ND	ND	8.41	
1003715	11/20/2019	78	ND	ND	2.59J	ND	ND	2.39J	8.88	10.1	ND	3.3J	ND	ND	ND	ND	27.26	
1003565-GO	8/21/2019	70	ND	ND	8.54	ND	ND	1.78J	7.48J	5.72J	ND	5.83J	6.22J	ND	ND	ND	35.57	
1003462	3/25/19	Unknown	ND	ND	4.48J	ND	ND	ND	2.89J	24.8	ND	ND	5.26J	ND	ND	ND	37.43	
1006991	8/20/2019	124	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1003411	8/19/2019	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1003434	8/21/2019	30	ND	ND	5.41J	ND	ND	ND	4.11J	1.90J	ND	ND	ND	ND	ND	ND	11.42	
1003417	5/13/2019	61'	ND	ND	10.9	ND	ND	5.92J	14.0	6.52J	ND	5.78J	1.67J	ND	ND	ND	44.79	
1003433	5/13/2019	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1003454	3/27/19	62	ND	ND	11.6	ND	ND	ND	5.84J	3.91J	ND	1.75J	ND	ND	ND	ND	23.1	
1003801	11/21/2019	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1003615	11/21/2019	133	ND	ND	1.52J	ND	ND	ND	4.58J	ND	ND	2.1J	2.03J	ND	ND	ND	10.23	
1003620	11/21/2019	NA	ND	ND	3.24J	ND	ND	3.03J	11.9	1.43J	ND	3.74J	ND	ND	ND	ND	23.34	
1003594	11/19/2019	NA	ND	ND	1.74J	ND	ND	2.64J	8.17J	3.06J	ND	3.28J	ND	ND	ND	ND	18.89	
1003610	12/4/2019	138	ND	ND	ND	ND	ND	ND	2.87J	ND	ND	ND	1.98B	ND	ND	ND	4.85	
1006847	11/19/2019	NA	ND	ND	ND	ND	ND	ND	3.93J	ND	ND	ND	ND	ND	ND	ND	3.93	
1006870	11/19/2019	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006890	12/4/2019	100	ND	ND	ND	ND	ND	ND	1.98J	ND	ND	ND	3.16B	ND	ND	ND	5.14	
1006899	11/19/2019	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006916-SA	12/2/2019	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1003601-SA	8/21/2019	100	ND	ND	ND	ND	ND	ND	4.18J	ND	ND	ND	ND	ND	ND	ND	4.18	
1006927	8/20/2019	120	ND	ND	ND	ND	ND	ND	ND	2.07J	ND	ND	ND	ND	ND	ND	2.07	
1006928	8/20/2019	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006931	8/20/2019	Unknown	ND	ND	1.44J	ND	ND	ND	6.93J	7.07J	ND	ND	ND	ND	ND	ND	15.44	

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		CAS #	2991-50-6	2355-31-9	375-73-5	335-76-2	307-55-1	375-85-9	307-24-4	355-46-4	375-95-1	335-67-1	1763-23-1	376-06-7	72629-94-8	2058-94-8	PFAS	
		Carbon Chain Length	C8	C8	C4	C10	C12	C7	C6	C6	C9	C8	C8	C8	C14	C13	C11	
		EGLE DW Criteria	NA	NA	420	NA	NA	NA	400,000	51	6	8	16	NA	NA	NA	NA	NA
		Well Depth																
1006690-TA	8/19/2019	54	ND	ND	1.45J	ND	ND	ND	ND	4.36J	ND	ND	1.60J	ND	ND	ND	7.41	
1006717-TA	8/21/2019	57	ND	ND	2.26J	ND	ND	8.97	22.1	12.6	10.4	15.2	51.9	ND	ND	ND	123.43	
1006741-DR	5/15/2019	99'	ND	ND	2.99J	ND	ND	13.4	31.9	12.6	4.43J	15.1	20.1	ND	ND	ND	100.52	
1006742	5/14/2019	39'	ND	ND	1.61J	ND	ND	10.5	31.9	5.82J	4.07J	13.0	23.2	ND	ND	ND	90.1	
1006487	5/14/2019	30'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006506	5/15/2019	67'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006542	5/14/2019	52'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006583	5/13/2019	30'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006650	5/13/2019	75'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006647	5/15/2019	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006665	5/14/2019	71'	ND	ND	2.31J	ND	ND	ND	ND	14.5	ND	3.60J	3.36J	ND	ND	ND	23.77	
1006672	5/14/2019	154'	ND	ND	ND	ND	ND	ND	ND	4.19J	ND	1.56J	3.41J	ND	ND	ND	9.16	
1006681	5/14/2019	Unknown	ND	ND	1.80J	ND	ND	2.34J	5.05J	11.2J	9.10	4.40J	14.1	ND	ND	ND	47.99	
1006760	5/13/2019	Unknown	ND	ND	1.46J	ND	ND	11.6	35.3	4.76J	4.15J	15.6	18.9	ND	ND	ND	91.77	
1006710	5/14/2019	48'	ND	ND	1.75J	ND	ND	3.69J	8.96	4.44J	2.65J	8.99	14.2	ND	ND	ND	44.68	
1006767	5/15/2019	88'	ND	ND	2.33J	ND	ND	9.68	24.5	12.2	4.02J	13.7	19.3	ND	ND	ND	85.73	
1006770	5/14/2019	135'	ND	ND	1.31J	ND	ND	12.0	34.9	4.44J	3.75J	13.9	18.6	ND	ND	ND	88.9	
1006787	5/15/2019	30'	ND	ND	1.87J	ND	ND	8.30J	20.3	13.7	ND	6.78J	5.39J	ND	ND	ND	56.28	
1006790	5/14/2019	Unknown	ND	ND	2.29J	ND	ND	19.7	38.7	11.7	4.56J	23.2	19.7	ND	ND	ND	119.85	
1006436	3/27/19	37	ND	ND	1.37J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.37	
1006445	3/27/19	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006454	3/25/19	48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.11J	ND	ND	ND	4.11	
1006472	3/25/19	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006490	3/26/19	64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006526	3/27/19	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006529	3/27/19	80	ND	ND	ND	ND	ND	ND	9.29	29.7	ND	ND	ND	ND	ND	ND	38.99	
1006545	3/26/19	30	ND	ND	42.1	ND	ND	3.22J	13.3	9.08J	ND	6.84J	8.71J	ND	ND	ND	83.25	
1006560	3/25/19	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1006565	3/26/19	Unknown	ND	ND	5.97J	ND	ND	3.12J	10.9	2.21J	ND	11.5	ND	ND	ND	ND	33.7	
1006616	3/27/19	58	ND	ND	ND	ND	ND	ND	2.23J	ND	ND	ND	ND	ND	ND	ND	2.23	
1006701	3/26/19	68	ND	ND	2.33J	ND	ND	10.1	27.2	9.75	5.99J	16.1	38.7	ND	ND	ND	110.17	
1006786	3/25/19	112	ND	ND	2.65J	ND	ND	18.1	37	18	2.13J	10.7	11.5	ND	ND	ND	100.08	
1003260	8/19/2019	Unknown	ND	ND	1.24J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.24	
1003530	8/22/2019	87	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1003611	5/13/2019	115'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1003464	3/25/19	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1003601	3/26/19	75	ND	ND	ND	ND	ND	ND	2.24J	ND	ND	ND	3.10J	ND	ND	ND	5.34	

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		CAS #	2991-50-6	2355-31-9	375-73-5	335-76-2	307-55-1	375-85-9	307-24-4	355-46-4	375-95-1	335-67-1	1763-23-1	376-06-7	72629-94-8	2058-94-8	PFAS	
		Carbon Chain Length	C8	C8	C4	C10	C12	C7	C6	C6	C6	C9	C8	C8	C14	C13	C11	
		EGLE DW Criteria	NA	NA	420	NA	NA	NA	400,000	51	6	8	16	NA	NA	NA	NA	NA
		Well Depth																
1006714	11/19/2019	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006758	11/21/2019	71	ND	ND	ND	ND	ND	ND	5.74J	2.3J	ND	2.31J	ND	ND	ND	ND	ND	10.35
1006682	8/22/2019	124	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006690-TR	8/19/2019	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006700	8/21/2019	112	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006715	8/21/2019	114	ND	ND	ND	ND	ND	ND	1.69J	ND	ND	ND	ND	ND	ND	ND	ND	1.69
1006728	8/21/2019	131	ND	ND	ND	ND	ND	ND	1.69J	ND	ND	ND	ND	ND	ND	ND	ND	1.69
1006691	5/14/2019	125'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006733	5/14/2019	76'	ND	ND	ND	ND	ND	ND	2.83J	1.67J	ND	ND	ND	ND	ND	ND	ND	4.5
1006741-CT	5/13/2019	116'	ND	ND	ND	ND	ND	ND	5.18J	1.91J	ND	ND	ND	ND	ND	ND	ND	7.09
1006751	5/14/2019	75'	ND	ND	1.51J	ND	ND	ND	3.76J	2.79J	ND	ND	ND	ND	ND	ND	ND	8.06
1006757	5/14/2019	81'	ND	ND	1.75J	ND	ND	ND	4.44J	3.49J	ND	1.60J	ND	ND	ND	ND	ND	11.28
1006801	5/14/2019	128'	ND	ND	4.87J	ND	ND	1.81J	6.09J	4.84J	ND	3.26J	ND	ND	ND	ND	ND	20.87
1006800-CT	3/25/19	80	ND	ND	9.16	ND	ND	5.60J	17.9	17.9	ND	14.8	1.60J	ND	ND	ND	ND	66.96
1003413	8/19/2019	112	ND	ND	ND	ND	ND	1.75J	4.16J	3.07J	ND	3.11J	ND	ND	ND	ND	ND	12.09
1003414	8/19/2019	Unknown	ND	ND	ND	ND	ND	ND	ND	3.87J	1.58J	2.22J	3.73J	ND	ND	ND	ND	11.4
1003508	8/20/2019	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1003540-TR	8/20/2019	118	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1003548	8/20/2019	58	ND	ND	2.19J	ND	ND	ND	3.24J	ND	ND	1.89J	ND	ND	ND	ND	ND	7.32
1003556	8/20/2019	69	ND	ND	3.55J	ND	ND	1.63J	5.34J	ND	ND	3.06J	ND	ND	ND	ND	ND	13.58
1003564	8/19/2019	74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1003476	5/14/2019	Unknwn	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1003579	5/14/2019	106'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1003597	5/14/2019	75'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1003431	3/27/19	Unknown	ND	ND	ND	ND	ND	ND	2.96J	ND	ND	ND	ND	ND	ND	ND	ND	2.96
1003493	3/26/19	66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1003511	3/25/19	59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1003529	3/25/19	118	ND	ND	11.6	ND	ND	4.62J	13.5	14.1	ND	6.26J	ND	ND	ND	ND	ND	50.08
1003545	3/25/19	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1003557	3/27/19	75	ND	ND	3.81J	ND	ND	1.65J	4.54J	ND	ND	3.42J	ND	ND	ND	ND	ND	13.42
1003565	3/25/19	70	ND	ND	4.01J	ND	ND	2.00J	6.32J	1.95J	ND	4.36J	ND	ND	ND	ND	ND	18.64
1003571	3/25/19	78	ND	ND	1.76J	ND	ND	ND	3.57J	2.50J	ND	ND	ND	ND	ND	ND	ND	7.83
1003587	3/27/19	82	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1003591	3/26/19	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Cascade Township Residential Sampling
PFAS Analytical Results
Phases 1-4

Client ID	Sample Date	ANALYTE	NEtFOSAA	NMeFOSAA	PFBS	PFDA	PFDoA	PFHpA	PFHxA	PFHxS	PFNA	PFOA	PFOS	PFTA	PFTrDA	PFUnA	TOTAL	
		CAS #	2991-50-6	2355-31-9	375-73-5	335-76-2	307-55-1	375-85-9	307-24-4	355-46-4	375-95-1	335-67-1	1763-23-1	376-06-7	72629-94-8	2058-94-8	PFAS	
		Carbon Chain Length	C8	C8	C4	C10	C12	C7	C6	C6	C6	C9	C8	C8	C14	C13	C11	
		EGLE DW Criteria	NA	NA	420	NA	NA	NA	400,000	51		6	8	16	NA	NA	NA	NA
		Well Depth																
1003516	8/21/2019	62	ND	ND	3.53J	ND	ND	ND	3.54J	3.10J	ND	2.13J	ND	ND	ND	ND	12.3	
1003517	8/20/2019	64	ND	ND	ND	ND	ND	ND	2.85J	ND	ND	ND	ND	ND	ND	ND	2.85	
1003521	5/14/2019	101'	ND	ND	ND	ND	ND	ND	3.48J	ND	ND	ND	ND	ND	ND	ND	3.48	
1003524	3/25/19	66	ND	ND	7.33J	ND	ND	13	45.8	30.8	ND	44.1	8.77J	ND	ND	ND	149.8	
1006930	11/19/2019	137	ND	ND	6.76J	ND	ND	3.92J	10.6	5.06J	ND	7.92J	ND	ND	ND	ND	34.26	
1006951	11/19/2019	NA	ND	ND	3.08J	ND	ND	4.11J	11.5J	3.68J	ND	9.53	ND	ND	ND	ND	31.9	
1006967	11/21/2019	215	ND	ND	5.83J	ND	ND	8.41	27.4	8.04J	ND	21.2	9.96	ND	ND	ND	80.84	
1006895	8/20/2019	128	ND	ND	10.1	ND	ND	6.37J	18.5	7.93J	ND	11.9	ND	ND	ND	ND	54.8	
1006914	8/20/2019	47	ND	ND	3.72J	ND	ND	2.11J	5.70J	2.39J	ND	4.49J	ND	ND	ND	ND	18.41	
1006915	8/20/2019	70	ND	ND	3.86J	ND	ND	3.72J	19.9	3.88J	ND	5.29J	ND	ND	ND	ND	36.65	
1006933	8/19/2019	70	ND	ND	5.20J	ND	ND	5.11J	16.9	4.28J	ND	10.1	ND	ND	ND	ND	41.59	
1003506-TU	11/21/2019	NA	ND	ND	3.11J	ND	ND	2.09J	6.38J	1.86J	ND	4.53J	ND	ND	ND	ND	17.97	
1003515	11/21/2019	NA	ND	ND	3.07J	ND	ND	3.36J	9.74	2.21J	ND	5.06J	ND	ND	ND	ND	23.44	
1003549	11/21/2019	123	ND	ND	ND	ND	ND	ND	2.15J	ND	ND	ND	ND	ND	ND	ND	2.15	
1003579-GO	12/4/2019	104	ND	ND	ND	ND	ND	ND	3.13J	ND	ND	ND	ND	ND	ND	ND	3.13	
1003580	11/20/2019	123	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.29B	ND	ND	ND	2.29	
1003589	11/19/2019	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1003590	11/19/2019	115	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.96J	ND	ND	ND	1.96	
1003420	8/20/2019	Unknown	ND	ND	3.86J	ND	ND	2.49J	7.85J	3.65J	ND	6.74J	2.55J	ND	ND	ND	27.14	
1003452	8/20/2019	Unknown	ND	ND	9.13	ND	ND	5.79J	18.2	10.4	ND	10.8	ND	ND	ND	ND	54.32	
1003539	8/20/2019	Unknown	ND	ND	ND	ND	ND	ND	4.64J	1.88J	ND	ND	ND	ND	ND	ND	6.52	
1003540-TU	8/21/2019	Unknown	ND	ND	5.62J	ND	ND	4.09J	11.6	7.75J	ND	10.1	4.41J	ND	ND	ND	43.57	
1003550	8/20/2019	73	ND	ND	3.77J	ND	ND	2.98J	6.81J	5.13J	ND	5.69	ND	ND	ND	ND	24.38	
1003559	8/20/2019	65	ND	ND	1.87J	ND	ND	1.81J	7.32J	1.55J	ND	ND	ND	ND	ND	ND	12.55	
1003560	8/20/2019	63	ND	ND	3.44J	ND	ND	4.00J	9.24	5.34J	ND	6.83J	ND	ND	ND	ND	28.85	
1003570	8/21/2019	63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1003395	5/13/2019	Unknown	ND	ND	7.46J	ND	ND	4.51J	9.04	4.00J	ND	4.90J	3.12J	ND	ND	ND	33.03	
1003417-DR	5/15/2019	80'	ND	ND	4.20J	ND	ND	2.14J	5.33J	2.75J	ND	5.99J	2.09J	ND	ND	ND	21	
1003435	5/15/2019	122'	ND	ND	3.84J	ND	ND	3.94J	16.9	5.52J	ND	5.43J	ND	ND	ND	ND	35.63	
1003453	5/15/2019	120'	ND	ND	16.5	ND	ND	12.4	23.5	13.7	1.79J	33.7	2.67J	ND	ND	ND	104.26	
1003481	5/14/2019	112'	ND	ND	3.44J	ND	ND	2.12J	7.70J	4.94J	ND	3.14J	ND	ND	ND	ND	21.34	
1003501	5/13/2019	Unknown	ND	ND	10.6	ND	ND	6.63J	22.3	6.00J	ND	12.4	ND	ND	ND	ND	57.93	
1003591-DR	5/15/2019	88'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1003569	3/27/19	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

Cascade Township Residential Sampling
 PFAS Analytical Results
 Phases 1-4

Client ID	Sample Date	ANALYTE	NEtFOSAA	NMeFOSAA	PFBS	PFDA	PFDoA	PFHpA	PFHxA	PFHxS	PFNA	PFOA	PFOS	PFTA	PFTTrDA	PFUnA	TOTAL
		CAS #	2991-50-6	2355-31-9	375-73-5	335-76-2	307-55-1	375-85-9	307-24-4	355-46-4	375-95-1	335-67-1	1763-23-1	376-06-7	72629-94-8	2058-94-8	PFAS
		Carbon Chain Length	C8	C8	C4	C10	C12	C7	C6	C6	C9	C8	C8	C14	C13	C11	
		EGLE DW Criteria	NA	NA	420	NA	NA	NA	400,000	51	6	8	16	NA	NA	NA	NA
		Well Depth															
1003460	3/26/19	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006579-WO	11/21/2019	90	ND	ND	1.47J	ND	ND	ND	3.01J	ND	ND	2.91J	ND	ND	ND	ND	7.39
1006595	12/2/2019	105	ND	ND	3.24J	ND	ND	3.92J	27J	1.51J	ND	5.45J	ND	ND	ND	ND	41.12
1006669-WO	11/18/2019	161	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006715-WO	11/20/2019	136	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006723	12/4/2019	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.84B	ND	ND	ND	2.84
1006739-R	11/19/2019	121	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006791	11/18/2019	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.1B	ND	ND	ND	15.1
1006807	11/21/2019	116	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006849	11/21/2019	122	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006909	11/18/2019	130	ND	ND	ND	ND	ND	ND	ND	3.82J	ND	ND	ND	ND	ND	ND	3.82
1006920-WO	11/18/2019	63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006958	12/4/2019	102	ND	ND	2.94J	ND	ND	ND	6.65J	3.31J	ND	ND	6.99B	ND	ND	ND	19.89
1006983	11/18/2019	58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006405	5/13/2019	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006400	3/26/19	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1006416	3/26/19	97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

All values in nanograms per Liter (ng/L)

Criteria from the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Part 201, 6/25/2018

	analyte was not detected above Laboratory Detection Limit
	PFOA+PFOS or total PFAS > 0 < 10 ng/L
	PFOA+PFOS > 10 < 70 ng/L or total PFAS > 10 < 100 ng/L
	PFOA+PFOS > 70 ng/L or total PFAS > 100 ng/L
	Data was rejected, see DVR for explanation
	Exceeds EGLE 2020 Criteria

U =The analyte was not detected above the associated limit of detection

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample

R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ND = Not detected

EGLE = Michigan Department of Environment, Great Lakes, and Energy

MDHHS = Michigan Department of Health and Human Services

Perfluorotetradecanoic acid (PFTA)

Perfluorotridecanoic acid (PFTTrDA)

Perfluorododecanoic acid (PFDoA)

Perfluoroundecanoic acid (PFUnA)

Perfluorodecanoic acid (PFDA)

Perfluorononanoic acid (PFNA)

Perfluorooctanoic Acid (PFOA)

Perfluoroheptanoic acid (PFHpA)

Perfluorohexanoic acid (PFHxA)

Perfluorooctane sulfonate (PFOS)

Perfluorohexanesulfonic acid (PFHxS)

Perfluorobutanesulfonic acid (PFBS)

2-(N-Ethylperfluorooctanesulfonamido) acetic acid (N-EtFOSAA)

2-(N-Methylperfluorooctanesulfonamido) acetic acid (N-MeFOSAA)

Appendix 2



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
GRAND RAPIDS DISTRICT OFFICE



C. HEIDI GREYER
DIRECTOR

December 11, 2017

Mr. Dave Harran, Interim Water System Manager
City of Grand Rapids
1900 Oak Industrial Drive, NE
Grand Rapids, Michigan 49505

WSSN: 2790

Dear Mr. Harran:

SUBJECT: City of Grand Rapids (City) – 2017 Water System Sanitary Survey

This letter will confirm my visits with several of the City's Water System staff between April and November of 2017, and summarize the review and discussion of the water supply facilities serving the City of Grand Rapids (supply). The purpose of the sanitary survey was to evaluate the water system with respect to the requirements of the Michigan Safe Drinking Water Act – Act 399 (PA 1976 as amended). The sanitary survey form was updated to gather information on the water supply system. Electronic copies of the sanitary survey document in .pdf format have been emailed to you. You are encouraged to share this document with all pertinent water system and administrative personnel at the City.

As this is a rather large document, please note the following outline:

Page 1 – Sanitary Survey Review Summary
Page 4 to 62 – Water Treatment Plant Data Gathering Form
Page 63 to 72 – Compliance with Rules and Regulations
Page 71 to 105 – Distribution System Data Gathering Form

The report's findings summary on Page 2 lists the individual items that should or must be addressed and references the pages in the report where those items are discussed. In an effort to help you prioritize, each item has been assigned a rating of 1-4, with 1 being the most critical.

Our department would first like to acknowledge some of the progress the City has made in improving the water system since our 2014 sanitary survey. These improvements include:

- Sodium hypochlorite feed system at the Lake Michigan Filtration Plant (LMFP)
- Ongoing concrete rehabilitation projects in the LMFP
- Improvements to the Wilson, Franklin, and Bristol Pump Stations
- Rehabilitation of the South Clearwell at the LMFP
- Construction of a new 0.5 million gallon elevated tank (North Walker Tank)
- Ongoing watermain replacement projects
- LMFP High Service Pumps and VFD upgrades

The water system has undergone some significant changes from a staffing perspective since 2014 as well. By condensing staff at the LMFP, the Coldbrook pumping station no longer serves as a base of operations for distribution maintenance crews. In fact, maintenance has been assigned to shared staff at the Water Resource Recovery Facility. The new staffing structure was further put to the test in July of 2017, when multiple levels of failure of power generation equipment resulted in historically low water levels in the distribution system reservoirs.

Operators were able to avoid a public health impact by implementing emergency response to the best of their abilities. Some of the recommendations are a result of observations and conversations pertaining to the change in staffing as well as this emergency event.

The following table summarizes the findings from our survey of the water system:

Survey Element	Findings
Source	Deficiency Identified
Treatment	Recommendations Made
Distribution System	Recommendations Made
Finished Water Storage	Recommendations Made
Pumps	Recommendations Made
Monitoring & Reporting	Recommendations Made
Management & Operations	Deficiency Identified
Operator Compliance	Recommendations Made
Security	Recommendations Made
Financial	Recommendations Made
Other	No deficiencies/recommendations

The following deficiencies must be addressed to comply with Act 399:

- D1. Events in early July of 2017 resulted in multiple levels of failure of emergency power generation equipment, as well as onsite high voltage electrical equipment. One limitation caused by these failures was the inability to pump water to the distribution system, resulting in dangerously low reservoir levels of historic magnitude. The water supply must take adequate steps to ensure all power equipment is fully functional through a robust preventative maintenance and testing protocol. In addition, the water supply must study the capabilities of the existing emergency interconnections, and the potential for adding additional emergency interconnects if necessary.
- D2. Through observations at distribution sites and lessons learned from multiple events in the water system, the maintenance of the distribution system is a topic of concern. At multiple locations, vegetation overtakes perimeter fencing, air vents and access hatches deteriorate, pipe coatings continue to deteriorate, and some unsafe conditions exist on walkways due to deterioration. In addition, review of maintenance records finds a lack of preventative and routine maintenance of pumps and pumping facilities. The water supply must provide adequate staffing, training, and managerial oversight to properly implement preventative maintenance in the distribution facilities.
- D3. Chlorine piping has been modified, to provide additional flexibility between chlorine pumps and potential feed locations. While this effort is recommended to be done, an Act 399 permit was not obtained. A permit application must be submitted by December 1, 2017.

The following recommendations are significant or have the potential to significantly impact the water supply:

- R1. According to Rule 710b (5) of Act 399, sampling of water quality parameters is required for large water supplies that install corrosion control treatment. The City continues to surpass the minimum requirements in frequency of sampling, both at the point of entry as well as in the distribution taps. However, due to poor sampling practices and inadvertent lack of follow-up, there were a number of 'excursions' from the designated parameters in 2014 and 2015 for pH in the distribution/tap samples. The Department of Environmental Quality (DEQ) has only recently begun tracking distribution WQP's for compliance, and as such these excursions are not being identified as a deficiency. The City reports the excursions were likely due to sampling procedural errors, and a standard procedure has now been established for quickly addressing these excursions to ensure proper water quality and effective corrosion treatment.
- R2. The City has both a history of compliance with the Lead and Copper Rule, as well as an abundance of lead in the system (full lead service lines). As such, there is a great deal of importance placed on the corrosion treatment at the water plant, due to the potential impact to public health. Our office has identified a need to re-visit the designated ranges for pH, orthophosphate, and total phosphate at both the point of entry and tap locations (i.e., optimal water quality parameters, or OWQPs). We are contacting the supply under separate cover to begin this discussion. As discussions progress, the City should bear in mind the impacts of all water treatment process (i.e., coagulation, disinfection) on water quality parameters and corrosion control.
- R3. The capacity of the transmission and high service pumping have been reduced relative to the water plant's rated treatment capacity. Since the system demands are around 85 percent of that capacity and likely growing, the City must implement a solution to increase the ability to move water from the water plant to the distribution system.
- R4. The City has begun to incorporate residential accounts into its cross connection prevention program, primarily in the form of requiring testing of backflow preventers. This effort is commended, and should be complimented with a more robust inspections program. The City may wish to conduct systematic inspections in residential areas, or at a minimum conduct formal interior inspections at opportune times such as complaint investigations or meter changeouts. Inspection forms and records must be maintained for these activities, and reported annually.

We would appreciate a response to this letter outlining how the City plans to address each of these items by January 12, 2017. Lower priority recommendations should also be reviewed. In future visits, we will be tracking progress of the items listed in the report.

Mr. Dave Harran, Interim Water System Manager

Page 4

December 11, 2017

If you have any questions, please contact me at 616-356-0207; sarkipatoe@michigan.gov; or Department of Environmental Quality, Drinking Water and Municipal Assistance Division, Grand Rapids District Office, 350 Ottawa Avenue NW, Unit 10, Grand Rapids, Michigan 49503-2341.

Sincerely,



Ernie Sarkipato, P.E.
Surface Water Treatment Specialist
Engineering Unit

ES:kw

Enclosure

cc/enc: Mr. Mike Grenier, Water Treatment Plant Superintendent
Mr. Chad Reenders, Water Treatment Plant Supervisor



CASCADE CHARTER TOWNSHIP

2865 Thornhills SE Grand Rapids, Michigan 49546-7140

Date: January 27, 2021
To: Supervisor Lesperance and Township Board Members
From: Ben Swayze, Township Manager
Subject: Hold Second Public Hearing for Laraway Lake Special Assessment District No. 1 for the purposes of reviewing the special assessment roll and for hearing all persons interested in the special assessment roll and any objections to the roll.

FACTS:

The Township has received a petition, circulated by property owners on Laraway Lake, to make certain improvements to Laraway Lake, including weed control and removal and for the cost of the improvements to be special assessed against parcels of land within the district. The request is for the cost to be equally assessed against all parcels that front Layaway Lake, with the exception of vacant parcels owned by duplicate homeowners.

They have requested that the special assessment district be implemented for 10 years. The total parcel count for the special assessment district is 23, and the requested work to be done is approximately \$11,575 meaning each parcel will be assessed \$504 per year during the duration of the special assessment district.

The Special Assessment District is being established pursuant to Public Act 188 of the Public Acts of Michigan of 1954, as amended (the "Act" or "Act 188"). It should be noted while the petition has been received by the Laraway Lake property owners, this process is being moved forward on the initiative of the Township Board and, legally, the Township Board is not compelled to carry through the Special Assessment District if it determines it is not in the best interest of the public.

At the January 13, 2021 Township Board Meeting, the Board authorized the public hearing. Notices were sent, in accordance with statute regulations, to all occupants and owners that would be subject to the Special Assessment. The required newspaper notices were published in the Grand Rapids Press, however the GRP was unable to publish them in accordance with the timeline established in the statute. Therefore, staff is not asking for approval of Resolution #4 at this time, and will hold a second public hearing at the February 10 meeting before the resolution should be considered.

Attached for your review are:

- Notice of Public Hearing for Laraway Lake Special Assessment District #1
- Proposed Special Assessment Roll as received by the Township Board at the January 13, 2021 meeting
- Estimated Costs for Laraway Lake Improvements

ANALYSIS & CONCLUSIONS:

The Township have enlisted the help of attorney Clifford Bloom of Bloom Sluggett to assist in the establishment of the Laraway Lake Special Assessment District. Mr. Bloom has a specialty in this work and him and his firm have helped to establish similar improvement districts across Michigan. The cost of Mr. Bloom's services, as well as all other direct costs related to the establishment of the district (i.e. printing, mailing, publication) will be charged to the SAD if it is established. If the SAD is not established, the Township is responsible for those costs.

If the SAD is established, it is recommended that the Township Board approve and ad-hoc committee, consisting of Township staff, officials, and residents included in the SAD, to provide direction on the expenditure of SAD dollars (...though final appropriation will be at the sole discretion of the Township Board.) The establishment of this ad-hoc committee will occur with the adoption of the final SAD resolution.

FINANCIAL CONSIDERATIONS:

It is anticipated that the establishment of the Special Assessment District will be between \$2,500 and \$5,000, primarily consisting of legal fees and printing/publication costs. If the SAD is established, these fees can be recovered through the SAD. If it is not established, the Township is responsible for these fees. The Township staff is not recommending that staff time costs or administrative overhead be recovered through the SAD.

If established, the SAD will produce \$11,575 per year. These funds are kept in a separate fund and can only be utilized for the purposed outlined in the SAD plan documents.

RECOMMENDED ACTION:

Hold Second Public Hearing for Laraway Lake Special Assessment District No. 1 for the purposes of reviewing the special assessment roll and for hearing all persons interested in the special assessment roll and any objections to the roll.



CASCADE CHARTER TOWNSHIP
Kent County, Michigan

NOTICE OF PUBLIC HEARING TO REVIEW AND
POTENTIALLY CONFIRM THE SPECIAL ASSESSMENT ROLL

LARAWAY LAKE
SPECIAL ASSESSMENT DISTRICT NO. 1

NOTICE IS HEREBY GIVEN that the Township Board of the Charter Township of Cascade, Kent County, Michigan, having resolved its intention to proceed to make certain public improvements in the Township, has made its final determination of a special assessment district which consists of the following described lots and parcels of land which are benefitted by the improvements and against which all or a portion of the costs of the improvements shall be specially assessed.

NOTICE IS ALSO HEREBY GIVEN that a special assessment roll has been prepared and presented to the Township Board for Cascade Charter Township, Kent County, Michigan, pursuant to Act 188 of the Public Acts of Michigan 1954 (as amended) ("Act 188") for the purpose of defraying the cost of the control and partial eradication of aquatic plants and weeds within Laraway Lake by means of chemical treatment, biological agents, and/or mechanical harvesting (the "Public Improvements").

The Laraway Lake Special Assessment District No. 1 shall consist of the following described lots and parcels of land (all with lake frontage on Laraway Lake), against which all or a portion of the costs of the Public Improvements shall be specially assessed:

PROPERTY TO BE ASSESSED:



ASSESSMENT ROLL

TOTAL ASSESSMENT:	\$115,749.80
TOTAL ASSESSMENT PER YEAR:	\$11,574.98
TOTAL ASSESSED PARCELS:	23
TOTAL INSTALLMENTS:	10
TOTAL PER PARCEL ASSESSMENT:	\$5,032.61
PER PARCEL ASSESSMENT PER YEAR:	\$503.26

A full assessment roll, including parcel ID numbers and addresses, can be found on the Township website at www.cascadetwp.com or by contacting the Township Clerk office.

NOTICE IS FURTHER GIVEN THAT the Township Supervisor of the Charter Township of Cascade has caused to be made and certified a special assessment roll for the special assessment district, which roll sets forth the relative portion of the costs of said Public Improvements which is to be levied in the form of a special assessment against each benefited lot and parcel of land in the special assessment district. Pursuant to an earlier resolution of the Township Board, the costs of the Public Improvements are to be periodically redetermined on a yearly basis in accordance with the resolution and Act 188.

PUBLIC HEARING:

TAKE NOTICE that the Township Board of Cascade Charter Township will hold two public hearings, one on January 27, 2021 at 7:00 p.m. and one on February 10, 2021 at 7:00 pm, by the remote conferencing app Zoom, in accordance with Public Act 228 of 2021, for the purpose of reviewing and potentially confirming the special assessment roll and also hearing and considering any and all objections thereto. Final information on attending the meeting can be found at www.cascadetwp.com a minimum of 2 days prior to the meeting.

TAKE NOTICE that appearance and protest at the public hearing is required in order to appeal the amount of the special assessment or other matters to the Michigan Tax Tribunal.

TAKE NOTICE that an owner or party in interest, or his/her agent, may appear in person at the hearing to protest the special assessment, or may file his/her appearance or protest by letter, on or before the close of the hearing.

TAKE NOTICE that any person objecting to the assessment roll is requested to file written objections with the Township Clerk before the close of the hearing.

TAKE NOTICE that an owner or any person having an interest in the real property subject to the special assessment may file a written appeal of the special assessment with the Michigan Tax Tribunal within thirty (30) days after the date of the confirmation of the special assessment roll if the owner or person having an interest in the real property appears and protests the special assessment at the hearing held for the purpose of confirming the roll.

Michigan Tax Tribunal
P.O. Box 30232

Lansing, Michigan 48909

TAKE FURTHER NOTICE that the special assessment roll as prepared has been reported to the Township Board and is on file with the Township Clerk for public examination or inspection.

This notice was authorized by the Township Board of the Charter Township of Cascade.

FOR FURTHER INFORMATION PLEASE CONTACT:

Susan Slater
Township Clerk
Cascade Charter Township
2865 Thornhills Avenue SE
Grand Rapids, Michigan 49546
(616) 949-1508

**LARAWAY LAKE
SPECIAL ASSESSMENT DISTRICT#1 ROLL**

TOTAL ASSESSMENT: \$115,749.80
TOTAL ASSESSMENT PER YEAR: \$11,574.98
TOTAL ASSESSED PARCELS: 23
TOTAL INSTALLMENTS: 10
TOTAL PER PARCEL ASSESSMENT: \$5,032.61
PER PARCEL ASSESSMENT PER YEAR: \$503.26

Permanent Parcel No.	Street Address	Total Assessment ¹	Yearly Assessment
41-19-05-480-014	1830 Beard Dr. SE	\$5,032.61	\$503.26
41-19-05-480-013	1860 Beard Dr SE	\$5,032.61	\$503.26
41-19-05-480-012	1874 Beard Dr. SE	\$5,032.61	\$503.26
41-19-05-480-010	1930 Boxthorn Ct. SE	\$5,032.61	\$503.26
41-19-05-480-009	1944 Boxthorn Ct. SE	\$5,032.61	\$503.26
41-19-04-351-016	2025 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-351-011	2019 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-351-013	1995 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-351-009	1981 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-351-008	1975 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-351-007	1969 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-351-006	1955 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-351-005	1943 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-351-004	1931 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-351-003	1915 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-351-015	1891 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-351-001	1865 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-301-033	1861 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-301-032	1859 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-301-014	1855 Laraway Lake Dr. SE	\$5,032.61	\$503.26
41-19-04-301-031	6500 Donnegan Ln. SE	\$5,032.61	\$503.26
41-19-04-301-030	6484 Donnegan Ln. SE	\$5,032.61	\$503.26
41-19-04-301-024	6400 Donnegan Ln. SE	\$5,032.61	\$503.26

¹ The assessment amount will be divided into ten (10) equal annual installments or principal with the first installment due and payable on or before September 14, 2021, and all subsequent installments due and payable on or before September 14 of each year through September 14, 2030.

Tom Koster

From: Zachary Berry B.S. <zach@aquaticdoctors.com> on behalf of Zachary Berry B.S.
Sent: Thursday, July 9, 2020 11:14 PM
To: Tom Koster
Subject: Laraway Lake Cost estimates for 2021

Hi Tom,

Here's what I've come up with in regards to an annual cost for 2021:

As we discussed, we will want to be very aggressive with the treatments to regain control of the lake.

\$4275 for 3 emergent/Lily Pad treatments (@ \$285/acre treating 5 acres/treatment)

\$1050 for 5 Algae treatments (@ \$42/acre treating 5ac/treatment)

\$5000 for 5 Submersed weed treatments (@ \$200/acre treating 5ac/treatment)

TOTAL FOR 2021: \$10,325

Please let me know if you have any other questions.

Have a great weekend!

Zach

--



Zach Berry B.S.
General Manager/Aquatic Biologist

P: 616.365.1698
F: 501.647.3041

P.O. Box 150247
Grand Rapids, MI 49515-0247

www.aquaticdoctors.com



AQUATIC DOCTORS LAKE MANAGEMENT, INC. ("Aqua Docs") of P.O. Box 150247, Grand Rapids, Michigan 49515 and Laraway Lake Association of Cascade, Michigan agree:

Aqua Docs will provide a professional aquatic program for the control of weeds and/or algae in Laraway Lake. The program will consist of the following:

May/June: Weed and Algae treatment applying restrictive products such as Navigate (2,4-D), Diquat, Triclopyr, Aquathol K, Hydrothol 19, Glyphosate and non-water restrictive products such as copper sulfate, Cutrine-Plus, Cutrine-Ultra, Cygnet Plus, and shade as a tracer.

**3-4 weeks after initial treatment- spot treat weed beds and algae treatment.

July and August: Algae treatments applying non-water restrictive products such as copper sulfate, Cutrine-Plus, Cutrine-Ultra, Cygnet Plus and shade as a tracer. Spot weed treatment for EWM and other nuisance plant growth.

Cost per Acre:

Navigate: Granular systemic 2,4-D herbicide to control Eurasian Watermilfoil	\$ 325.00
Triclopyr: Granular systemic herbicide to control Eurasian	\$ 560.00
Triclopyr: Liquid systemic herbicide to control EWM	\$ 315.00
Diquat: Liquid herbicide to control EWM, Curlyleaf, and Pondweeds	\$ 205.00
Aquathol K-Hydrothol 191: Liquid herbicide to control Pondweeds	\$ 195.00
Glyphosate: Liquid herbicide for Lily pad control	\$ 285.00
Algaecides: Granular products to control Chara	\$ 65.00
Algaecides: Granular and liquid products to control algae	\$ 42.00

Cost per Pound:

Muck Treatment using Muck RemoveRX Pellets:	\$ 10.00/lb
Enzyme Treatment using organic materials:	\$ 14.50/lb
Water Quality Program:	\$ 50.00/sample

Description and Optional Services:

Weed Treatment: Milfoil, Curly-leaf, Coon-tail, Chara, and various pondweed treatments applying restrictive products such as granular Navigate (2,4-D), Aquathol K, Hydrothol 191, Diquat, Triclopyr, Komeen, Glyphosate, and Cygnet Plus.

Algae treatment: Non-water restrictive algaecides such as Copper Sulfate, Curtain-Plus, Cutrine-Ultra, Chelated Copper, Earthtech, Greenclean, and shade as a tracer. Treatments should occur monthly to prevent existing growth and prevent re-growth. Surrounding conditions (i.e. sunlight, temperature, nutrient concentration, etc...) may require additional treatments.

Muck/Enzyme Treatment: Designed to decrease levels of organic sediment in lakes and ponds while reducing odors and improving water clarity. The pellets sink quickly, targeting 'muck' on the bottom. Muck Remover does not contain pathogenic bacteria and it is fish and wildlife friendly. Contains 3 billion CFU/gram (Colony-forming units).

Water Quality Program: Water quality program consists of lake samples taken and sent to an independent laboratory (Prein&Newhof). The samples can be tested for a variety of things including; fecal bacteria (E. coli), dissolved oxygen, conductivity, total dissolved solids, pH and alkalinity. Primarily E. coli is the focus.



- Specific treatment dates will be set by Aqua Docs, in cooperation with Tom Koster Lake Board.
- Please be aware Aqua Docs can only treat weeds and algae present at the time of treatment. We have no control over future weed or algae growth based on the current chemicals registered for aquatic use in Michigan.
- Unless otherwise stated in the program, all other aquatic pest control will require a separate program (i.e. cattails, duckweed, largeleaf pondweed, lily pads, purple loosestrife, watermeal, etc...)

Aqua Docs will obtain the DEQ "Aquatic Nuisance Control permit" and post restriction signs as required. Any facility or location related permits/requirements, for example, "Discharge or Retention" permits will be the responsibility of the customer, association, resident or facility. It is your association's/group's responsibility to notify each resident within one hundred (100) feet of the treatment area at least seven (7) days in advance of the first treatment that chemicals will be applied. This notification requirement must be provided to every property owner who has consented to have their property treated. Lake boards and townships who assess the lake property owners are exempt from individual consent documentation. The property owner is responsible for removing any restriction signs ten (10) days after the conclusion of water use restrictions.

Aqua Docs carries a general liability policy of insurance for workmans comp, bodily injury and property damage with limits of \$1,000,000.00 per occurrence. Certificates of insurance will be provided upon request.

The State of Michigan requires a minimum fee of \$75.00 and increases the fee to \$1500.00 for treatment areas of 100 acres or more. Please make check to the State of Michigan. Application for the DEQ "Aquatic Nuisance Control permit" shall occur promptly after the fee is received from the customer.

Special Notes & Conditions of Treatments

- #1 - Our office must be notified of any inlets/outlets to meet specific permit requirements with the Michigan DEQ.
- #2 - If the water body is being used as a source of irrigation, please notify our office prior to any treatments.
- #3 - To minimize the possible effects on health and the environment, the treated waters MAY be restricted for such uses as swimming, bathing, irrigation, fish consumption and/or livestock.
- #4 - If an access site has not been determined or established prior to services rendered, then an access site must be determined at the discretion of the applicator at the time of treatment.

Payment in full is due within fifteen (15) days of each application. Any amount remaining unpaid when due shall accrue a penalty of 1.5% per month.

All materials utilized by Aqua Docs shall be of the highest quality and are registered with the U.S. Environmental Protection Agency and the Michigan Department of Agriculture.

The accumulation of dying and decomposing plants and algae can deplete the dissolved oxygen supply in the water, which may result in fish mortality. Please note that such occurrences are minimal, however, the possibility does exist. Due to their level of sensitivity, Goldfish, Coy, and Trout are more susceptible to a treatment than other fish species. During Late Spring and Summer, many NATURAL fish kills occur due to an increase in water temperature and spawning habits, primarily.

Three or five year treatment program: As an incentive to establish a multiple year agreement we will treat your lake or pond at the same price structure as 2020 for 2021! The remaining years (2022-2024) will have cost increases of three percent or less. If total chemical costs exceeds 10% from the previous year a new agreement will have to be mutually acceptable. If during the life of the contract the DNR or other regulatory agencies significantly change the approved treatment procedures or the client finds the manner in which the work is performed less than satisfactory, either party may terminate this agreement upon giving ninety (90) days advance written notice thereof.

Aquatic Doctors Lake Management, Inc.

PO Box 150247 Grand Rapids MI 49515 Office: (616) 365 1698 Fax: (501) 647 3041 www.aquaticdoctors.com

Contract:

Signature Page for "Laraway Lake"

Program Option for Laraway Lake:

One (1) Year Program- _____

Three (3) Year Program- _____

Five (5) Year Program- _____

(Just initial your choice)

Aquatic Doctors Lake Management, Inc.

By: MT Ryan Schauland B.S.
President

Signature

Date

For Laraway Lake Representative:

Name (Print) _____

Title _____

Address: _____

Phone: _____

(Day): _____

(Eve): _____

Signature

Date

email: _____

Aquatic Doctors Lake Management, Inc.

PO Box 150247 Grand Rapids MI 49515 Office: (616) 365 1698 Fax: (501) 647 3041 www.aquaticdoctors.com



CASCADE CHARTER TOWNSHIP

2865 Thornhills SE Grand Rapids, Michigan 49546-7140

Date: January 27, 2021
To: Supervisor Lesperance and Township Board Members
From: Ben Swayze, Township Manager
Subject: Hold Second Public Hearing for Thornapple River Special Assessment District No.1 for the purposes of reviewing the special assessment roll and for hearing all persons interested in the special assessment roll and any objections to the roll.

FACTS:

The Township has received a petition, circulated by members of the Cascade Thornapple River Association (CTRA), to make certain improvements to the Thornapple River including weed control and removal, debris removal and safety enhancements, and silt control and removal, and for the cost of the improvements to be special assessed against each parcel of land within the district. The request is for the cost to be equally assessed against all parcels that front the Thornapple River between the dam and 60th Street, including those parcels that from Township owned property on the river.

They have requested that the special assessment district be implemented for 15 years. The total parcel count for the special assessment district is 303, and the requested work to be done is approximately \$90,900 meaning each parcel will be assessed \$300 per year during the duration of the special assessment district.

The Special Assessment District is being established pursuant to Public Act 188 of the Public Acts of Michigan of 1954, as amended (the "Act" or "Act 188"). It should be noted while the petition has been received by the CTRA, this process is being moved forward on the initiative of the Township Board and, legally, the Township Board is not compelled to carry through the Special Assessment District if it determines it is not in the best interest of the public.

At the January 13, 2021 Township Board Meeting, the Board authorized the public hearing. Notices were sent, in accordance with statute regulations, to all occupants and owners that would be subject to the Special Assessment. The required newspaper notices were published in the Grand Rapids Press, however the GRP was unable to publish them in accordance with the timeline established in the statute. Therefore, staff is not asking for approval of Resolution #4 at this time, and will hold a second public hearing at the February 10 meeting before the resolution should be considered.

Attached for your review are:

- Notice of Public Hearing for Thornapple River Drive Special Assessment District #1
- Proposed Special Assessment Roll as received by the Township Board at the January 13, 2021 meeting
- Proposed Improvements and Estimated Costs for Thornapple River Improvements

ANALYSIS & CONCLUSIONS:

The Township have enlisted the help of attorney Clifford Bloom of Bloom Sluggett to assist in the establishment of the Thornapple River Special Assessment District. Mr. Bloom has a specialty in this work and him and his firm have helped to establish similar improvement districts across Michigan. The cost of Mr. Bloom's services, as well as all other direct costs related to the establishment of the district (i.e. printing, mailing, publication) will be charged to the SAD if it is established. If the SAD is not established, the Township is responsible for those costs.

If the SAD is established, it is recommended that the Township Board approve and ad-hoc committee, consisting of Township staff, officials, and residents included in the SAD, to provide direction on the expenditure of SAD dollars (...though final appropriation will be at the sole discretion of the Township Board.) The establishment of this ad-hoc committee will occur with the adoption of the final SAD resolution.

FINANCIAL CONSIDERATIONS:

It is anticipated that the establishment of the Special Assessment District will be between \$5,000 and \$10,000, primarily consisting of legal fees and printing/publication costs. If the SAD is established, these fees can be recovered through the SAD. If it is not established, the Township is responsible for these fees. The Township staff is not recommending that staff time costs or administrative overhead be recovered through the SAD.

If established, the SAD will produce \$90,900 per year. These funds are kept in a separate fund and can only be utilized for the purposed outlined in the SAD plan documents.

RECOMMENDED ACTION:

Hold Second Public Hearing for Thornapple River Special Assessment District No.1 for the purposes of reviewing the special assessment roll and for hearing all persons interested in the special assessment roll and any objections to the roll.



CASCADE CHARTER TOWNSHIP
Kent County, Michigan

NOTICE OF PUBLIC HEARING TO REVIEW AND
POTENTIALLY CONFIRM THE SPECIAL ASSESSMENT ROLL

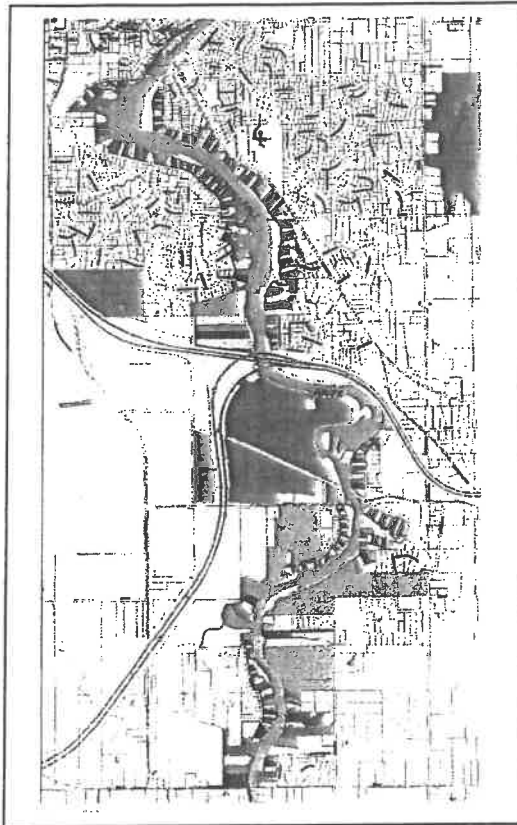
THORNAPPLE RIVER
SPECIAL ASSESSMENT DISTRICT NO. 1

NOTICE IS HEREBY GIVEN that the Township Board of the Charter Township of Cascade, Kent County, Michigan, having resolved its intention to proceed to make certain public improvements in the Township, has made its final determination of a special assessment district which consists of the following described lots and parcels of land which are benefitted by the improvements and against which all or a portion of the costs of the improvements shall be specially assessed.

NOTICE IS ALSO HEREBY GIVEN that a special assessment roll has been prepared and presented to the Township Board for Cascade Charter Township, Kent County, Michigan, pursuant to Act 188 of the Public Acts of Michigan 1954 (as amended) ("Act 188") for the purpose of defraying the cost of the control and partial eradication of aquatic plants and weeds within the Covered Portion of the Thornapple River by means of chemical treatment, biological agents, and/or mechanical harvesting and also river management within the Covered Portion of the river (the "Public Improvements").

The Thornapple River Special Assessment District No. 1 shall consist of the following described lots and parcels of land (all with river frontage on the Covered Portion of the Thornapple River), against which all or a portion of the costs of the Public Improvements shall be specially assessed:

PROPERTY TO BE ASSESSED:



ASSESEMENT ROLL

TOTAL ASSESSMENT:	\$1,363,500
TOTAL ASSESSMENT PER YEAR:	\$90,900
TOTAL ASSESSED PARCELS:	303
TOTAL INSTALLMENTS:	15
TOTAL PER PARCEL ASSESSMENT:	\$4,500
PER PARCEL ASSESSMENT PER YEAR:	\$300

A full assessment roll, including parcel ID numbers and addresses, can be found on the Township website at www.cascadetwp.com or by contacting the Township Clerk office.

NOTICE IS FURTHER GIVEN THAT the Township Supervisor of the Charter Township of Cascade has caused to be made and certified a special assessment roll for the special assessment district, which roll sets forth the relative portion of the costs of said Public Improvements which is to be levied in the form of a special assessment against each benefited lot and parcel of land in the special assessment district. Pursuant to an earlier resolution of the Township Board, the costs of the Public Improvements are to be periodically redetermined on a yearly basis in accordance with the resolution and Act 188.

PUBLIC HEARING:

TAKE NOTICE that the Township Board of Cascade Charter Township will hold two public hearings, one on January 27, 2021 at 7:00 p.m. and one on February 10, 2021 at 7:00 pm, by the remote conferencing app Zoom, in accordance with Public Act 228 of 2021, for the purpose of reviewing and potentially confirming the special assessment roll and also hearing and considering any and all objections thereto. Final information on attending the meeting can be found at www.cascadetwp.com a minimum of 2 days prior to the meeting.

TAKE NOTICE that appearance and protest at the public hearing is required in order to appeal the amount of the special assessment or other matters to the Michigan Tax Tribunal.

TAKE NOTICE that an owner or party in interest, or his/her agent, may appear in person at the hearing to protest the special assessment, or may file his/her appearance or protest by letter, on or before the close of the hearing.

TAKE NOTICE that any person objecting to the assessment roll is requested to file written objections with the Township Clerk before the close of the hearing.

TAKE NOTICE that an owner or any person having an interest in the real property subject to the special assessment may file a written appeal of the special assessment with the Michigan Tax Tribunal within thirty (30) days after the date of the confirmation of the special assessment roll if the owner or person having an interest in the real property appears and protests the special assessment at the hearing held for the purpose of confirming the roll.

Michigan Tax Tribunal
P.O. Box 30232
Lansing, Michigan 48909

TAKE FURTHER NOTICE that the special assessment roll as prepared has been reported to the Township Board and is on file with the Township Clerk for public examination or inspection.

This notice was authorized by the Township Board of the Charter Township of Cascade.

FOR FURTHER INFORMATION PLEASE CONTACT:

Susan Slater
Township Clerk
Cascade Charter Township
2865 Thornhills Avenue SE
Grand Rapids, Michigan 49546
(616) 949-1508

**THORNAPPLE RIVER DRIVE
SPECIAL ASSESSMENT DISTRICT#1 ROLL**

TOTAL ASSESSMENT: \$1,363,500
TOTAL ASSESSMENT PER YEAR: \$90,900
TOTAL ASSESSED PARCELS: 303
TOTAL INSTALLMENTS: 15
TOTAL PER PARCEL ASSESSMENT: \$4,500
PER PARCEL ASSESSMENT PER YEAR: \$300

Street Address	Parcel No.	Total Assessment1	Yearly Assessment
7211 48th Street SE	#411928200024	\$4,500.00	\$300.00
7503 48th Street SE	#411927100015	\$4,500.00	\$300.00
7510 48th Street SE	#411927301023	\$4,500.00	\$300.00
7581 48th Street SE	#411927100007	\$4,500.00	\$300.00
7661 48th Street SE	#411927260012	\$4,500.00	\$300.00
7201 60th Street SE	#411933400034	\$4,500.00	\$300.00
7250 60th Street SE	#411934351004	\$4,500.00	\$300.00
7233 60th Street SE	#411933400037	\$4,500.00	\$300.00
7259 60th Street SE	#411933400038	\$4,500.00	\$300.00
7275 60th Street SE	#411933400039	\$4,500.00	\$300.00
5600 Alaska Ave SE	#411934176002	\$4,500.00	\$300.00
5711 Alaska Ave SE	#411934328003	\$4,500.00	\$300.00
5777 Alaska Ave. SE	#411934376006	\$4,500.00	\$300.00
7474 Alaska Ridge SE	#411934326012	\$4,500.00	\$300.00
7486 Alaska Ridge SE	#411934326016	\$4,500.00	\$300.00
7490 Alaska Ridge SE	#411934326018	\$4,500.00	\$300.00
7500 Alaska Ridge SE	#411934326019	\$4,500.00	\$300.00
7509 Alaska Ridge SE	#411934328001	\$4,500.00	\$300.00
7540 Alaska Ridge SE	#411934327001	\$4,500.00	\$300.00
7160 Aqua Fria Ct SE	#411922151006	\$4,500.00	\$300.00
7165 Aqua Fria Ct SE	#411921228012	\$4,500.00	\$300.00
7176 Aqua Fria Ct SE	#411921228015	\$4,500.00	\$300.00
7177 Aqua Fria Ct SE	#411921228013	\$4,500.00	\$300.00
7178 Aqua Fria Ct SE	#411921228014	\$4,500.00	\$300.00
4020 Burger Dr SE	#411921400002	\$4,500.00	\$300.00
4051 Burger Dr SE	#411921400013	\$4,500.00	\$300.00
4304 Burger Dr SE	#411922376001	\$4,500.00	\$300.00
6555 Burger Dr SE	#411916326001	\$4,500.00	\$300.00
6575 Burger Dr SE	#411916326004	\$4,500.00	\$300.00
6577 Burger Dr SE	#411916326003	\$4,500.00	\$300.00

6579 Burger Dr SE	#411916326002	\$4,500.00	\$300.00
6625 Burger Dr SE	#411916326019	\$4,500.00	\$300.00
6677 Burger Dr SE	#411916326008	\$4,500.00	\$300.00
6681 Burger Dr SE	#411916326009	\$4,500.00	\$300.00
6701 Burger Dr SE	#411916326010	\$4,500.00	\$300.00
6717 Burger Dr SE	#411916326011	\$4,500.00	\$300.00
6727 Burger Dr SE	#411916326012	\$4,500.00	\$300.00
6755 Burger Dr SE	#411916326013	\$4,500.00	\$300.00
6775 Burger Dr SE	#411916326018	\$4,500.00	\$300.00
6811 Burger Dr SE	#411916403004	\$4,500.00	\$300.00
6825 Burger Dr SE	#411916403003	\$4,500.00	\$300.00
6881 Burger Dr SE	#411916404010	\$4,500.00	\$300.00
6891 Burger Dr SE	#411916404011	\$4,500.00	\$300.00
6921 Burger Dr SE	#411916404002	\$4,500.00	\$300.00
6931 Burger Dr SE	#411916404003	\$4,500.00	\$300.00
6937 Burger Dr SE	#411916404004	\$4,500.00	\$300.00
6943 Burger Dr SE	#411916404005	\$4,500.00	\$300.00
6953 Burger Dr SE	#411916404006	\$4,500.00	\$300.00
6965 Burger Dr SE	#411916404007	\$4,500.00	\$300.00
6985 Burger Dr SE	#411916404008	\$4,500.00	\$300.00
6995 Burger Dr SE	#411916404009	\$4,500.00	\$300.00
5175 Buttrick Ave SE	#411927478002	\$4,500.00	\$300.00
5215 Buttrick Ave SE	#411934126001	\$4,500.00	\$300.00
5395 Buttrick Ave SE	#411934130007	\$4,500.00	\$300.00
5407 Buttrick Ave SE	#411934130005	\$4,500.00	\$300.00
5503 Buttrick Ave SE	#411934176001	\$4,500.00	\$300.00
7100 Cascade Rd. SE	#411916426023	\$4,500.00	\$300.00
7110 Cascade Rd. SE	#411916426024	\$4,500.00	\$300.00
7120 Cascade Rd. SE	#411916426025	\$4,500.00	\$300.00
7124 Cascade Rd. SE	#411916426005	\$4,500.00	\$300.00
7130 Cascade Rd. SE	#411916426006	\$4,500.00	\$300.00
7138 Cascade Rd. SE	#411916426007	\$4,500.00	\$300.00
7146 Cascade Rd. SE	#411916426008	\$4,500.00	\$300.00
7160 Cascade Rd. SE	#411916426026	\$4,500.00	\$300.00
7168 Cascade Rd. SE	#411916426027	\$4,500.00	\$300.00
7174 Cascade Rd. SE	#411916426021	\$4,500.00	\$300.00
7180 Cascade Rd. SE	#411916426013	\$4,500.00	\$300.00
7186 Cascade Rd. SE	#411916426014	\$4,500.00	\$300.00
7222 Cascade Rd. SE	#411915351031	\$4,500.00	\$300.00
7196 Cascade Rd. SE	#411915351030	\$4,500.00	\$300.00
7238 Cascade Rd. SE	#411915351027	\$4,500.00	\$300.00

7278 Cascade Rd. SE	#411915351005	\$4,500.00	\$300.00
7288 Cascade Rd. SE	#411915351024	\$4,500.00	\$300.00
7300 Cascade Rd. SE	#411915351025	\$4,500.00	\$300.00
7314 Cascade Rd. SE	#411915351009	\$4,500.00	\$300.00
7340 Cascade Rd. SE	#411915351032	\$4,500.00	\$300.00
7350 Cascade Rd. SE	#411915351023	\$4,500.00	\$300.00
7358 Cascade Rd. SE	#411915351036	\$4,500.00	\$300.00
7370 Cascade Rd. SE	#411915351037	\$4,500.00	\$300.00
7372 Cascade Rd. SE	#411915351028	\$4,500.00	\$300.00
7378 Cascade Rd. SE	#411915351033	\$4,500.00	\$300.00
7430 Cascade Rd. SE	#411915351038	\$4,500.00	\$300.00
7474 Cascade Rd. SE	#411922126001	\$4,500.00	\$300.00
7476 Cascade Rd. SE	#411922126002	\$4,500.00	\$300.00
7478 Cascade Rd. SE	#411922126003	\$4,500.00	\$300.00
7484 Cascade Rd. SE	#411922126010	\$4,500.00	\$300.00
7486 Cascade Rd. SE	#411922126011	\$4,500.00	\$300.00
5200 Dayenu Dr. SE	#411927301029	\$4,500.00	\$300.00
5234 Dayenu Dr. SE	#411934101008	\$4,500.00	\$300.00
5260 Dayenu Dr. SE	#441934101009	\$4,500.00	\$300.00
5292 Dayenu Dr. SE	#411933200059	\$4,500.00	\$300.00
5320 Dayenu Dr. SE	#411933200060	\$4,500.00	\$300.00
5354 Dayenu Dr. SE	#411933200061	\$4,500.00	\$300.00
3402 Goodwood Dr. SE	#411916477001	\$4,500.00	\$300.00
3406 Goodwood Dr. SE	#411916477002	\$4,500.00	\$300.00
3412 Goodwood Dr. SE	#411916477003	\$4,500.00	\$300.00
3420 Goodwood Dr. SE	#411916477004	\$4,500.00	\$300.00
3426 Goodwood Dr. SE	#411916477005	\$4,500.00	\$300.00
3434 Goodwood Dr. SE	#411916477006	\$4,500.00	\$300.00
3444 Goodwood Dr. SE	#411916477007	\$4,500.00	\$300.00
3452 Goodwood Dr. SE	#411916477008	\$4,500.00	\$300.00
3462 Goodwood Dr. SE	#411916477009	\$4,500.00	\$300.00
3468 Goodwood Dr. SE	#411916477010	\$4,500.00	\$300.00
3474 Goodwood Dr. SE	#411916477011	\$4,500.00	\$300.00
3480 Goodwood Dr. SE	#411916477012	\$4,500.00	\$300.00
3486 Goodwood Dr. SE	#411916477013	\$4,500.00	\$300.00
3494 Goodwood Dr. SE	#411916477014	\$4,500.00	\$300.00
3500 Goodwood Dr. SE	#411916477015	\$4,500.00	\$300.00
3506 Goodwood Dr. SE	#411916477016	\$4,500.00	\$300.00
3516 Goodwood Dr. SE	#411916477017	\$4,500.00	\$300.00
3528 Goodwood Dr. SE	#411916477018	\$4,500.00	\$300.00
3544 Goodwood Dr. SE	#411916477024	\$4,500.00	\$300.00

3556 Goodwood Dr. SE	#411916477025	\$4,500.00	\$300.00
3584 Goodwood Dr. SE	#411916477022	\$4,500.00	\$300.00
3824 Goodwood Dr. SE	#411922151011	\$4,500.00	\$300.00
3840 Goodwood Dr. SE	#411922151009	\$4,500.00	\$300.00
3888 Goodwood Dr. SE	#411921279013	\$4,500.00	\$300.00
7415 Kenrob Dr. SE	#411922176022	\$4,500.00	\$300.00
7421 Kenrob Dr. SE	#411922176021	\$4,500.00	\$300.00
7425 Kenrob Dr. SE	#411922176012	\$4,500.00	\$300.00
7443 Kenrob Dr. SE	#411922176025	\$4,500.00	\$300.00
7447 Kenrob Dr. SE	#411922176024	\$4,500.00	\$300.00
7461 Kenrob Dr. SE	#411922176031	\$4,500.00	\$300.00
7459 Kenrob Dr. SE	#411922176030	\$4,500.00	\$300.00
7201 Kilmer Dr. SE	#411934101002	\$4,500.00	\$300.00
7219 Kilmer Dr. SE	#411934101003	\$4,500.00	\$300.00
7223 Kilmer Dr. SE	#411934101004	\$4,500.00	\$300.00
7227 Kilmer Dr. SE	#411934152002	\$4,500.00	\$300.00
7231 Kilmer Dr. SE	#411934152003	\$4,500.00	\$300.00
7243 Kilmer Dr. SE	#411934152004	\$4,500.00	\$300.00
7249 Kilmer Dr. SE	#411934152005	\$4,500.00	\$300.00
7255 Kilmer Dr. SE	#411934152006	\$4,500.00	\$300.00
7261 Kilmer Dr. SE	#411934152007	\$4,500.00	\$300.00
7271 Kilmer Dr. SE	#411934152008	\$4,500.00	\$300.00
7281 Kilmer Dr. SE	#411934152009	\$4,500.00	\$300.00
7291 Kilmer Dr. SE	#411934152010	\$4,500.00	\$300.00
7303 Kilmer Dr. SE	#411934152011	\$4,500.00	\$300.00
7310 Kilmer Dr. SE	#411934152012	\$4,500.00	\$300.00
7319 Kilmer Dr. SE	#411934152014	\$4,500.00	\$300.00
7335 Kilmer Dr. SE	#411934302002	\$4,500.00	\$300.00
7349 Kilmer Dr. SE	#411934302014	\$4,500.00	\$300.00
7357 Kilmer Dr. SE	#411934302005	\$4,500.00	\$300.00
7365 Kilmer Dr. SE	#411934302006	\$4,500.00	\$300.00
7373 Kilmer Dr. SE	#441934302007	\$4,500.00	\$300.00
7379 Kilmer Dr. SE	#411934302008	\$4,500.00	\$300.00
7385 Kilmer Dr. SE	#411934302009	\$4,500.00	\$300.00
7389 Kilmer Dr. SE	#411934302010	\$4,500.00	\$300.00
7393 Kilmer Dr. SE	#411934302015	\$4,500.00	\$300.00
7394 Kilmer Dr. SE	#411934301009	\$4,500.00	\$300.00
7395 Kilmer Dr. SE	#411934302016	\$4,500.00	\$300.00
7397 Kilmer Dr. SE	#411934302013	\$4,500.00	\$300.00
7300 Kirkwood Trail SE	#411934201044	\$4,500.00	\$300.00
7400 Kirkwood Trail SE	#411934201043	\$4,500.00	\$300.00

4505 Little Harbor Dr. SE	#411927230015	\$4,500.00	\$300.00
4535 Little Harbor Dr. SE	#411927230012	\$4,500.00	\$300.00
4545 Little Harbor Dr. SE	#411927230011	\$4,500.00	\$300.00
4555 Little Harbor Dr. SE	#411927230006	\$4,500.00	\$300.00
4567 Little Harbor Dr. SE	#411927260001	\$4,500.00	\$300.00
4581 Little Harbor Dr. SE	#411927260002	\$4,500.00	\$300.00
4593 Little Harbor Dr. SE	#411927260003	\$4,500.00	\$300.00
4607 Little Harbor Dr. SE	#411927260004	\$4,500.00	\$300.00
4623 Little Harbor Dr. SE	#411927260005	\$4,500.00	\$300.00
4637 Little Harbor Dr. SE	#411927260006	\$4,500.00	\$300.00
4651 Little Harbor Dr. SE	#411927260007	\$4,500.00	\$300.00
4667 Little Harbor Dr. SE	#411927260008	\$4,500.00	\$300.00
4689 Little Harbor Dr. SE	#411927260009	\$4,500.00	\$300.00
4707 Little Harbor Dr. SE	#411927260010	\$4,500.00	\$300.00
4717 Little Harbor Dr. SE	#411927260014	\$4,500.00	\$300.00
4755 Little Harbor Dr. SE	#411927260015	\$4,500.00	\$300.00
6600 Mahesh Dr SE	#411916176015	\$4,500.00	\$300.00
6590 Mahesh Dr SE	#411916176016	\$4,500.00	\$300.00
6860 Maplecrest SE	#411921400010	\$4,500.00	\$300.00
6862 Maplecrest SE	#411921400009	\$4,500.00	\$300.00
6864 Maplecrest SE	#411921400008	\$4,500.00	\$300.00
7016 Maplecrest SE	#411921282001	\$4,500.00	\$300.00
4015 Maracaibo Shores SE	#411922301001	\$4,500.00	\$300.00
4031 Maracaibo Shores SE	#411922301003	\$4,500.00	\$300.00
4045 Maracaibo Shores SE	#411922301004	\$4,500.00	\$300.00
4061 Maracaibo Shores SE	#411922301005	\$4,500.00	\$300.00
4089 Maracaibo Shores SE	#411922301006	\$4,500.00	\$300.00
4105 Maracaibo Shores SE	#411922301007	\$4,500.00	\$300.00
4121 Maracaibo Shores SE	#411922301008	\$4,500.00	\$300.00
4135 Maracaibo Shores SE	#411922301009	\$4,500.00	\$300.00
7156 Placita Ct SE	#411921228021	\$4,500.00	\$300.00
7157 Placita Ct SE	#411921228029	\$4,500.00	\$300.00
7166 Placita Ct SE	#411921228022	\$4,500.00	\$300.00
7169 Placita Ct SE	#411921228028	\$4,500.00	\$300.00
7635 Sandy Hollow Dr SE	#411927451009	\$4,500.00	\$300.00
7657 Sandy Hollow Dr SE	#411927451006	\$4,500.00	\$300.00
7675 Sandy Hollow Dr SE	#411927451003	\$4,500.00	\$300.00
7733 Sandy Hollow Dr SE	#411927451004	\$4,500.00	\$300.00
7755 Sandy Hollow Dr SE	#411927476003	\$4,500.00	\$300.00
4812 Sequoia Dr SE	#411927402001	\$4,500.00	\$300.00
4816 Sequoia Dr. SE	#411927402002	\$4,500.00	\$300.00

4826 Sequoia Dr SE	#411927402003	\$4,500.00	\$300.00
4844 Sequoia Dr SE	#411927402004	\$4,500.00	\$300.00
4854 Sequoia Dr SE	#411927402005	\$4,500.00	\$300.00
4864 Sequoia Dr SE	#411927402006	\$4,500.00	\$300.00
4872 Sequoia Dr SE	#411927402007	\$4,500.00	\$300.00
4884 Sequoia Dr SE	#411927402008	\$4,500.00	\$300.00
4896 Sequoia Dr SE	#411927402009	\$4,500.00	\$300.00
4910 Sequoia Dr SE	#411927402010	\$4,500.00	\$300.00
4920 Sequoia Dr SE	#411927402011	\$4,500.00	\$300.00
4930 Sequoia Dr SE	#411927402012	\$4,500.00	\$300.00
4942 Sequoia Dr SE	#411927402018	\$4,500.00	\$300.00
4952 Sequoia Dr SE	#411927402019	\$4,500.00	\$300.00
4960 Sequoia Dr SE	#411927402014	\$4,500.00	\$300.00
4968 Sequoia Dr SE	#411927402015	\$4,500.00	\$300.00
4976 Sequoia Dr SE	#411927402016	\$4,500.00	\$300.00
4984 Sequoia Dr SE	#411927402017	\$4,500.00	\$300.00
4994 Sequoia Dr SE	#411927376015	\$4,500.00	\$300.00
5006 Sequoia Dr SE	#411927376007	\$4,500.00	\$300.00
5016 Sequoia Dr SE	#411927376006	\$4,500.00	\$300.00
5020 Sequoia Dr SE	#411927376005	\$4,500.00	\$300.00
5030 Sequoia Dr SE	#411927376016	\$4,500.00	\$300.00
5050 Sequoia Dr SE	#411927376004	\$4,500.00	\$300.00
5060 Sequoia Dr SE	#411927376003	\$4,500.00	\$300.00
5070 Sequoia Dr SE	#411927376002	\$4,500.00	\$300.00
5080 Sequoia Dr SE	#411927376001	\$4,500.00	\$300.00
5090 Sequoia Dr SE	#411927376014	\$4,500.00	\$300.00
5110 Sequoia Dr SE	#411927376013	\$4,500.00	\$300.00
5110 Sequoia Dr SE	#411927376010	\$4,500.00	\$300.00
5140 Sequoia Dr SE	#411927376011	\$4,500.00	\$300.00
5909 Tannon Ct SE	#411934378013	\$4,500.00	\$300.00
5915 Tannon Ct SE	#411934378014	\$4,500.00	\$300.00
5945 Tannon Ct SE	#411934378011	\$4,500.00	\$300.00
5923 Tannon Ct. SE	#411934378012	\$4,500.00	\$300.00
5969 Tannon Ct. SE	#411934378010	\$4,500.00	\$300.00
5985 Tannon Ct. SE	#411934378009	\$4,500.00	\$300.00
7700 Thornapple Bayou Dr SE	#411927427037	\$4,500.00	\$300.00
7704 Thornapple Bayou Dr SE	#411927427039	\$4,500.00	\$300.00
7706 Thornapple Bayou Dr SE	#411927427040	\$4,500.00	\$300.00
7710 Thornapple Bayou Dr SE	#411927427004	\$4,500.00	\$300.00
7712 Thornapple Bayou Dr SE	#411927427005	\$4,500.00	\$300.00
7714 Thornapple Bayou Dr SE	#411927427006	\$4,500.00	\$300.00

7718 Thornapple Bayou Dr SE	#411927427007	\$4,500.00	\$300.00
7720 Thornapple Bayou Dr SE	#411927427008	\$4,500.00	\$300.00
7730 Thornapple Bayou Dr SE	#411927427009	\$4,500.00	\$300.00
7732 Thornapple Bayou Dr SE	#411927427044	\$4,500.00	\$300.00
7734 Thornapple Bayou Dr SE	#411927427030	\$4,500.00	\$300.00
7744 Thornapple Bayou Dr SE	#411927427031	\$4,500.00	\$300.00
7750 Thornapple Bayou Dr SE	#411927427011	\$4,500.00	\$300.00
7778 Thornapple Bayou Dr SE	#411927427042	\$4,500.00	\$300.00
7780 Thornapple Bayou Dr SE	#411927427024	\$4,500.00	\$300.00
7782 Thornapple Bayou Dr SE	#411927427023	\$4,500.00	\$300.00
7784 Thornapple Bayou Dr SE	#411927427034	\$4,500.00	\$300.00
7786 Thornapple Bayou Dr SE	#411927427021	\$4,500.00	\$300.00
7788 Thornapple Bayou Dr SE	#411927427020	\$4,500.00	\$300.00
7790 Thornapple Bayou Dr SE	#411927427019	\$4,500.00	\$300.00
7792 Thornapple Bayou Dr SE	#411927427041	\$4,500.00	\$300.00
7796 Thornapple Bayou Dr SE	#411927427014	\$4,500.00	\$300.00
7798 Thornapple Bayou Dr SE	#411927427015	\$4,500.00	\$300.00
7800 Thornapple Bayou Dr SE	#411627427016	\$4,500.00	\$300.00
7802 Thornapple Bayou Dr SE	#411927427017	\$4,500.00	\$300.00
7804 Thornapple Bayou Dr SE	#411927427035	\$4,500.00	\$300.00
2984 Thornapple River Dr SE	#411916176010	\$4,500.00	\$300.00
2986 Thornapple River Dr SE	#411916176009	\$4,500.00	\$300.00
2988 Thornapple River Dr SE	#411916203018	\$4,500.00	\$300.00
2990 Thornapple River Dr SE	#411916203030	\$4,500.00	\$300.00
2992 Thornapple River Dr SE	#411916203029	\$4,500.00	\$300.00
3000 Thornapple River Dr SE	#411916176020	\$4,500.00	\$300.00
3010 Thornapple River Dr SE	#411916176019	\$4,500.00	\$300.00
3024 Thornapple River Dr SE	#411916176007	\$4,500.00	\$300.00
3032 Thornapple River Dr SE	#411916176006	\$4,500.00	\$300.00
3044 Thornapple River Dr SE	#411916176021	\$4,500.00	\$300.00
3056 Thornapple River Dr SE	#411916176001	\$4,500.00	\$300.00
3140 Thornapple River Dr SE	#411916151003	\$4,500.00	\$300.00
3148 Thornapple River Dr SE	#411916176003	\$4,500.00	\$300.00
3150 Thornapple River Dr SE	#411916176012	\$4,500.00	\$300.00
3180 Thornapple River Dr SE	#411916180002	\$4,500.00	\$300.00
3049 Thorncrest SE	#411916251006	\$4,500.00	\$300.00
3059 Thorncrest SE	#411916251007	\$4,500.00	\$300.00
3081 Thorncrest SE	#411916251008	\$4,500.00	\$300.00
3083 Thorncrest SE	#411916251009	\$4,500.00	\$300.00
3095 Thorncrest SE	#411916251010	\$4,500.00	\$300.00
3115 Thorncrest SE	#411916251016	\$4,500.00	\$300.00

3143 Thorncrest SE	#411916251013	\$4,500.00	\$300.00
3157 Thorncrest SE	#411916251019	\$4,500.00	\$300.00
3169 Thorncrest SE	#411916251021	\$4,500.00	\$300.00
3177 Thorncrest SE	#411916251018	\$4,500.00	\$300.00
3187 Thorncrest SE	#411916401013	\$4,500.00	\$300.00
3193 Thorncrest SE	#411916401012	\$4,500.00	\$300.00
3206 Thorncrest SE	#411916401002	\$4,500.00	\$300.00
3216 Thorncrest SE	#411916401003	\$4,500.00	\$300.00
3230 Thorncrest SE	#411916401004	\$4,500.00	\$300.00
3238 Thorncrest SE	#411916401014	\$4,500.00	\$300.00
3250 Thorncrest SE	#411926401015	\$4,500.00	\$300.00
3262 Thorncrest SE	#411916401007	\$4,500.00	\$300.00
3272 Thorncrest SE	#411916401008	\$4,500.00	\$300.00
3284 Thorncrest SE	#411916401009	\$4,500.00	\$300.00
3298 Thorncrest SE	#411916426001	\$4,500.00	\$300.00
3294 Thorncrest SE	#411916401010	\$4,500.00	\$300.00
3300 Thorncrest SE	#411916426022	\$4,500.00	\$300.00
7400 Trillium Wood SE	#411934376008	\$4,500.00	\$300.00
7320 Whispering Ridge SE	#411922126030	\$4,500.00	\$300.00
7334 Whispering Ridge SE	#411922126031	\$4,500.00	\$300.00
7350 Whispering Ridge SE	#411922126032	\$4,500.00	\$300.00
7370 Whispering Ridge SE	#411922126033	\$4,500.00	\$300.00
7382 Whispering Ridge SE	#411922126034	\$4,500.00	\$300.00
7400 Whispering Ridge SE	#411922126035	\$4,500.00	\$300.00
7428 Whispering Ridge SE	#411922126036	\$4,500.00	\$300.00
7444 Whispering Ridge SE	#411922126037	\$4,500.00	\$300.00
4445 Whitneyville Ave SE	#411927230001	\$4,500.00	\$300.00

¹ The assessment amount will be divided into ten (15) equal installments or principal with the first installment due and payable on or before September 14, 2021, and all subsequent installments due and payable on or before September 14 of each year through September 14, 2030.

Updated: 4/14/2020

Special Assessment District - Projected 5 Year Budget

Parcel Scope: Frontage on the Thornapple River from the Cascade Dam to 60th Street

Parcel Count: 305

Projected Annual Parcel Assessment: \$300 per parcel for 15 years

Year	2021	2022	2023	2024	2025
Weed control and removal	\$66,000	\$56,000	\$57,680	\$59,410	\$61,192
Debris removal and safety enhancements	\$10,250	\$17,250	\$16,395	\$15,515	\$14,608
Silt control and removal	\$10,250	\$17,250	\$16,395	\$15,515	\$14,608
Township administrative fees	\$5,000	\$1,000	\$1,030	\$1,061	\$1,093
Total annual budget	\$91,500	\$91,500	\$91,500	\$91,500	\$91,500

Notes:

- Year 1 weed control is \$10,000 higher than year 2 and subsequent years are increased by 3%
- Year 1 township administrative fee is \$4,000 higher than year 2 and subsequent years are increased by 3%
 - Higher year 1 fees should be taken from year 1 silt allocation
 - Higher subsequent year fees should be taken equally from silt and debris allocations