MEETING	DATE	TIME	LOCATION
Joint Sanitary District	Tuesday, March 17, 2020	6:30 p.m.	Grand Chute Town Hall 1900 Grand Chute Blvd Board Room

A. CALL TO ORDER/ROLL CALL

B. PLEDGE OF ALLEGIANCE

C. APPROVAL OF AGENDA/ORDER OF THE DAY

D. PUBLIC INPUT

Members of the public are welcome to address the Commission and Town Board**. Individuals are allowed to speak only about agenda items and must fill out a "Request to Speak" form and submit to the Town Clerk prior to the start of the meeting in order to speak during the Public Input segment of the meeting.** This segment is placed early in the agenda so that the public may make their comments prior to any discussion or action by the Commission or Town Board. Individual comments are limited to no more than three minutes each. The Public Input section is limited to a total of 15 minutes. The Commission/Town Board may suspend this rule if deemed necessary. Once the public input segment ends there will be no additional discussion from the audience.

E. CONSENT AGENDA

(Items on the Consent Agenda are routine in nature and require one motion to approve all items listed. Prior to voting on the Consent Agenda, items on the Consent Agenda may be removed at the request of any Supervisor and addressed immediately following the motion to approve the other items on the Consent Agenda.)

1. Approve regular joint meeting minutes – March 3, 2020
2. Accept Monthly Report – February 2020

F. FINANCIAL REPORTS

1. Approval of Voucher List – March 17, 2020
2. Accept Budget Statement – January and February 2020

G. NEW BUSINESS

1. Award of bid, Contract 2020-11, 2020 Water Main Projects, to PTS Contractors, Inc. in the amount of $1,153,246.

2. Approval of Proposal & Scope of Work with Utilis for satellite leak detection services in the amount of $9,375.

H. RESOLUTIONS

1. Final Resolution SD3-01-2020 for College Avenue (CTH CA) from N. Mayflower Drive to N. Casaloma Drive as located in the Town of Grand Chute authorizing the commencement of work or improvements and special assessments for storm sewer installation and levying special assessments against abutting property owners or on an area wide basis to specially benefiting property owners under Chapter 60 and 66.0703(1)(b), et al Police Powers, Wis. Stats., 2017-18 as amended.

2. Final Resolution SD3-03-2020 for Woodman Drive Urbanization from Westhill Boulevard to Bluemound Drive as located in the Town of Grand Chute authorizing the commencement of work or improvements and special assessments for storm sewer installation and levying special assessments against abutting property owners or on an area wide basis to specially benefiting property owners under Chapter 60 and 66.0703(1)(b), et al Police Powers, Wis. Stats., 2017-18 as amended.

I. ADJOURNMENT

Public Notice: Agendas are posted in the following locations: Town Hall bulletin boards & Town website www.grandchute.net 2015 Wisconsin Act 79 allows the publication of certain legal notices on an Internet site maintained by a municipality. This law allows these types of legal notices to be posted in one physical location in the jurisdiction (instead of three) if also placed on an Internet site maintained by the local government.

Special Accommodations: Requests from persons with disabilities who need assistance to participate in this meeting should be made to the Clerk's Office at (920-832-5644) with at least 24-hour notice.

Notice of Possible Quorum: A quorum of the Town Board, Plan Commission, Board of Review, Licensing Committee, Parks Commission, Community Development Authority, Joint Review Board, Zoning Board of Appeals and/or Police and Fire Commission may be present at this meeting for the purpose of gathering information and possible discussion on items listed on this agenda. However, unless otherwise noted in this agenda, no official action by the Town Board, Plan Commission, Board of Review, Licensing Committee, Parks Commission, Joint Review Board, Zoning Board of Appeals and/or Police and Fire Commission will be taken at this meeting.

JOINT REGULAR MEETING – SANITARY DISTRICT NO. 1, NO. 2, NO. 3 & EAST SIDE UTILITY DISTRICT – 1900 W. GRAND CHUTE BLVD., GRAND CHUTE, WI – MARCH 3, 2020

CALL TO ORDER/ROLL CALL

Meeting called to order at 6:32 p.m. by Dave Schowalter, presiding officer.

PRESENT: Dave Schowalter, Eric Davidson, Jeff Nooyen, Bruce Sherman, Travis Thyssen, and Angie Cain, Town Clerk

STAFF: Jim March, Town Administrator; Bob Buckingham, Community Development Director; Greg Peterson, Police Chief; Brent Braun, IT Director; Katie Schwartz, Director of Public Works; Julie Wahlen, Finance Director; Kelly Hanick, Assistant Fire Chief; Karen Heyrman, Deputy Director of Public Works; Mike Patza, Town Planner; Atty. Rossmeissl, Herrling Clark Law Offices; and Nick Vande Hey, McMahon Associates.

OTHERS: 5 signed attendance

PLEDGE OF ALLEGIANCE

President Schowalter led the Pledge of Allegiance.

APPROVAL OF AGENDA/ORDER OF THE DAY

Motion (Nooyen/Sherman) to approve the agenda as printed. Motion carried.

PUBLIC INPUT – There was no public input.

CONSENT AGENDA

Approve Regular Joint Meeting minutes – February 20, 2020

Motion (Sherman/Thyssen) to approve the consent agenda. Motion carried.

FINANCIAL REPORTS

Approval of Voucher Lists – March 3, 2020
San 1, 2, 3 & East Side – $225,607.15 ACH – $821,737.44.

Motion (Davidson/Sherman) to approve the voucher list. Motion carried.

Accept November 2019 and December 2019 (Before Audit) Budget Statements

Motion (Thyssen/Nooyen) to accept the budget statements. Motion carried.

NEW BUSINESS

Authorization for DPW to purchase a John Deere 624L Wheel Loader at a State Bid cost of $177,231.25 (budgeted item).

Motion (Nooyen/Sherman) to approve. Motion carried.

RESOLUTION

Resolution SD123-02-2020, adopting a change order policy.

Motion (Sherman/Davidson) to approve SD123-02-2020. Motion carried.

ADJOURNMENT

Motion (Davidson/Nooyen) to adjourn. Motion carried.

Meeting adjourned 6:35 p.m.

These minutes were taken at a regular meeting held on March 3, 2020 and entered in this record book, March 4, 2020 by:

Angie Cain

_____
Angie Cain, Town Clerk
Joint Sanitary District No. 1, No. 2, No. 3 & East Side Utility District
Initial Draft

DEPARTMENT OF PUBLIC WORKS
1900 W Grand Chute Blvd, Grand Chute WI 54913
PH. 920-832-1581 FAX 920-832-6036
www.grandchute.net

March 9, 2020

Re: Sanitary District February 2020 Report

Dear Sanitary Commissioners:

In addition to the January 2020 Sanitary District activity report you will find attached the Executive Summary of the Non-Revenue Water (NRW) Study by AECOM as well as the completed Wetland Impact Study for Whispering Groves.

NRW STUDY:
As you recall, November 20, 2018, the Sanitary Commission approved the proposal by AECOM to complete a Non-Revenue Water Study for SAN 1 to investigate water loss in the Town. The 2-page executive summary and map is attached for your reference while the complete 69-page report is available upon request. The study indicates that the water loss is likely primarily leakage within the system, and the primary next step is continued leak detection. Staff will be bringing forward a proposal to contract with Utilis Ltd. to perform advanced leak detection utilizing satellite imagery at the March 17, 2020 Sanitary Commission meeting in order to aggressively find and fix leaks.

WETLAND IMPACT STUDY:
On September 17, 2019, the Sanitary Commission approved the proposal from McMahon to complete a wetland analysis related to the Whispering Groves drainage project. That study is complete and is attached for reference. The study notes that both precipitation runoff trends and sump pump discharges have attributed to increased water to the wooded wetland area. A meeting was held with all interested parties (agenda attached for reference), and it was determined that a next step should be having the same individuals meet with the permitting agencies as a group to discuss all possible options and how to proceed in-light of other possible future development to find a long-term solution for all interested parties.

Sincerely,

Katie Schwartz

Katie Schwartz, P.E.
Director of Public Works
Town of Grand Chute

Enc.

Sanitary District No. 1 & 2
Monthly Report
February 2020

UTILITY LOCATES 25
(25 Additional Locates from January-do not have February Invoice yet)

SERVICE CONNECTION PERMITS
- WATER 12
- SEWER 12
- STORM 11

FT. OF VACTORING 0

QUARTERLY BILLS (Cycle 2) 5,240

3/11/2020

Executive Summary
Non-Revenue Water Study Summary, March 2020

AECOM performed an evaluation of non-revenue water (NRW) for the Town of Grand Chute. The following serves as an Executive Summary to the Letter Report provided to the Town on March 3, 2020.

Background

The Town of Grand Chute historical water sales have been relatively constant from 1997 to the present; however, total pumpage has increased resulting in an increase in NRW. In last 3 years, NRW has averaged approximately 30 percent of total pumpage (water purchased) which exceeds industry guidelines of 10 percent by approximately 3 times. With the variable cost of water averaging approximately $4.90 per 1,000 gallons over the last 3 years, a reduction in NRW to 10 percent may result in approximately $0.9 M of savings annually.

The City of Appleton provides the water to the Town of Grand Chute via three booster pump stations operated by the Town. The Town has two elevated storage tanks – Townhall Tower and Misty Tower. Town staff indicated the hydraulic grade line (HGL) of the system was raised approximately 30 feet in 2006 with the construction of the Townhall Tower. As pressure management is a means to reduce NRW, the increase in HGL may be contributing to the increase in NRW.

Initial NRW Evaluation

During the kick-off meeting an estimation of nighttime flow was completed for December 16, 2018 and December 17, 2018 based on SCADA data from approximately 2:00 AM to 4:00 AM. During this period of time it was confirmed that no booster pumps were operating in the system; therefore, the two elevated tanks were supplying all water demands in the system. Using the Supervisory Control and Data Acquisition (SCADA) data available on the tower levels, the nighttime demand from 2:00 AM to 4:00 AM was estimated to be approximately 900 gallons per minute (gpm) which is 3 times the expected nighttime demand. Generally nighttime flow is approximately 25 percent of the total demand for a largely residential community which equates to approximately 300 gpm using 2018 water sales data for the Town (Water Research Foundation (WRF) Project 4144, Pipe Location and Leakage Management for Small Water Systems, PowerPoint example).

A query of large users resulted in an estimated flow of approximately 18 gpm during this time period; therefore, it was concluded that high nighttime flows (demands) are a likely significant contributor to the high NRW in the Town as residential usage should be minimal during this timeframe.

As part of the initial evaluation, AECOM compared the Town's SCADA pumpage data to the City of Appleton invoice water supplied and found some small discrepancies (typically 1 percent to 3 percent). The largest discrepancy was 6 percent for a quarter at one booster station; however, the volume on the Appleton invoice was less than the Town SCADA pumpage.

Water Distribution System, Service Laterals and Soil Corrosivity

The Town's water distribution system is comprised of approximately 125 miles of water main with approximately 92 miles of PVC pipe material and approximately 33 miles of ductile iron based on Geographic Information System (GIS) mapping and inputs from Town staff. Based on a review of available data, the soil is highly corrosive for ferrous pipe materials throughout the Town of Grand Chute. The installation date for the water main ranges from 1971 to the present with approximately 50 percent of the water mains installed between 1970 to 1989.

Based on the 2018 PSC report, the Town has 4,052 metal services and 1,449 plastic services. Town staff have indicated that each 1-inch to 1.5-inch and larger meter has a bypass; however, the Town has inspected the 1.5-inch diameter meters and larger and found some bypassed (this would contribute to NRW).

Leak Detection and Available Leak Data

The Town has indicated that some leak detection has been performed by Town staff, identifying multiple service leaks (pinhole type leaks) which have been repaired. In addition, the Town has replaced some of the metal services with PVC pipe, based on the pinhole leaks found on laterals; however, the Utility side of the lateral has been replaced, not the customer service side. A typical 1/16-inch pinhole leak with an average pressure of 60 pounds per square inch (psi) equates to approximately 1,000 gallons per day (gpd). As noted in the WRF study, Pipe Location and Leakage Management for Small Water Systems, small/hidden leaks are often the largest water loss. For example, 5 gpm leak running for 100 days is a 0.72 MG whereas a 500 gpm running for 4 hours is 0.12 MG.

According to Town staff the following leaks and breaks were replaced or fixed in 2019: three 1-inch services were fixed, one 2-inch service was fixed, a leaking hydrant was fixed, nine 1-inch services were replaced and one water main with a small leak was fixed.

High Level Water Audit

A high level water audit was completed on the available data for the Town for the purposes of identifying potential contributing factors to NRW. It was concluded that most if not all municipal services are metered and/or accounted for. In the 2018 PSC report, NRW was reported as 326 MGY. In 2018, the Town estimated hydrant flushing at 7.28 MG. AECOM is not aware of any significant firefighting uses in the Town. Approximately 8.6 MGY was reported as unbilled authorized consumption. Based on discussions with Town staff, it is not believed that there is prevalent illegal use of hydrants or illegal connections contributing to NRW. Large meters were checked, and some were found bypassed; however, it is not believed this is contributing significantly to NRW. Using American Water Works Association (AWWA) water audit software with 2018 Public Service Commission (PSC) data, the unavoidable annual real losses (UARL) was estimated to be approximately 43 MGY which is approximately 13 percent of the NRW reported in 2018.

City of Appleton Meters at the Booster Stations

The City of Appleton meters at the booster stations were last calibrated in October/November of 2018. Town staff have confirmed that a valve is not inadvertently open at each of the pump stations allowing water to enter back into the Appleton distribution system as this may contribute to NRW.

Historical Per Capita Data

Historical per capita water sales for the Town have been relatively constant over the period of 1997 to present based on PSC data. The actual per capita numbers are reasonable compared to other Wisconsin utilities with an average of approximately 38 gallons per capita per day (gpcd) for residential customers over the past 5 years. This is an indication that there is not a significant number of unmetered residential customers which would contribute to NRW.

Additional Nighttime Flow Monitoring

As discussed during the kick-off meeting on December 18, 2018 with the Town, to help locate the high nighttime demand (i.e. potential leakage), it was recommended that the Town of Grand Chute water distribution system be isolated into two separate zones (similar to the practice of district metering areas (DMAs)) during the approximate hours of 2:00 AM to 4:00 AM with an elevated tank in each zone.

The total estimated nighttime flow for each of the tests performed (6 total) is relatively consistent ranging from approximately 983 gpm to 844 gpm with an average of approximately 916 gpm.

Using the three tests with the 2 separate zones, AECOM was able to estimate the approximate nighttime flow in 4 areas of the water system as illustrated in Figure ES-1 by deductive reasoning (the results of the individual tests are detailed in Appendix A of the report table and figures). However, as shown, no one particular area has a vast majority of the nighttime flow. Area 3 and Area 4 have the highest nighttime flow per mile of distribution main.

Summary and Recommendations

Based on the overall high nighttime demand (estimated from tower levels from 2:00 AM to 4:00 AM) of approximately 900 gpm which is 3 times the expected nighttime demand, it is AECOM's opinion that a significant amount of the NRW water may be leakage.

It is recommended that the Town investigate leakage as the next step. One method would be to have a traditional leak detection survey performed which would identify and locate the potential leaks in the system by surveying the entire system. The Town may want to consider an advanced leak detection technology such as utilizing satellite imagery developed by Utilis Ltd. to identify points of interest for the field crew to perform leak detection.

It is AECOM's opinion that the Town consider contracting with a qualified, specialty leak detection contractor with the proper equipment and experience using suitable leak detection methods such as high speed leak location correlator with noise filtering, analysis, and management capabilities.

Based on the nighttime flow test conducted, it is recommended that the Town start in Area 3 and Area 4 as identified on Figure ES-1 for the leakage investigation as these two areas have been identified with the highest nighttime flows (largest potential of leakage and ultimately cost savings for the Town). Depending on the results of the initial leak detection, the Town may want to continue to have leak detection analysis performed on the rest of the system.

For budgetary purposes for a standard acoustic survey, it is recommended that the Town budget approximately $72,000 to $77,000 for the entire system to ensure a complete and thorough survey is completed with a detailed summary of the leakage found, potential cost savings, and recommendations going forward regarding reducing NRW. It is estimated that Area 3 would be approximately $8,500 and Area 4 would be approximately $20,000. The Town should be available to assist with curb stop and hydrant operation as necessary during the survey and coordinating small outages with customers, if necessary.

It is recommended that the Town take a phased approach evaluating the results and findings of the initial leak detection survey prior to completing the entire system to ensure there is a benefit to the survey. In addition, if larger leaks are found, the Town can implement a plan to get them fixed and NRW can be re-quantified.

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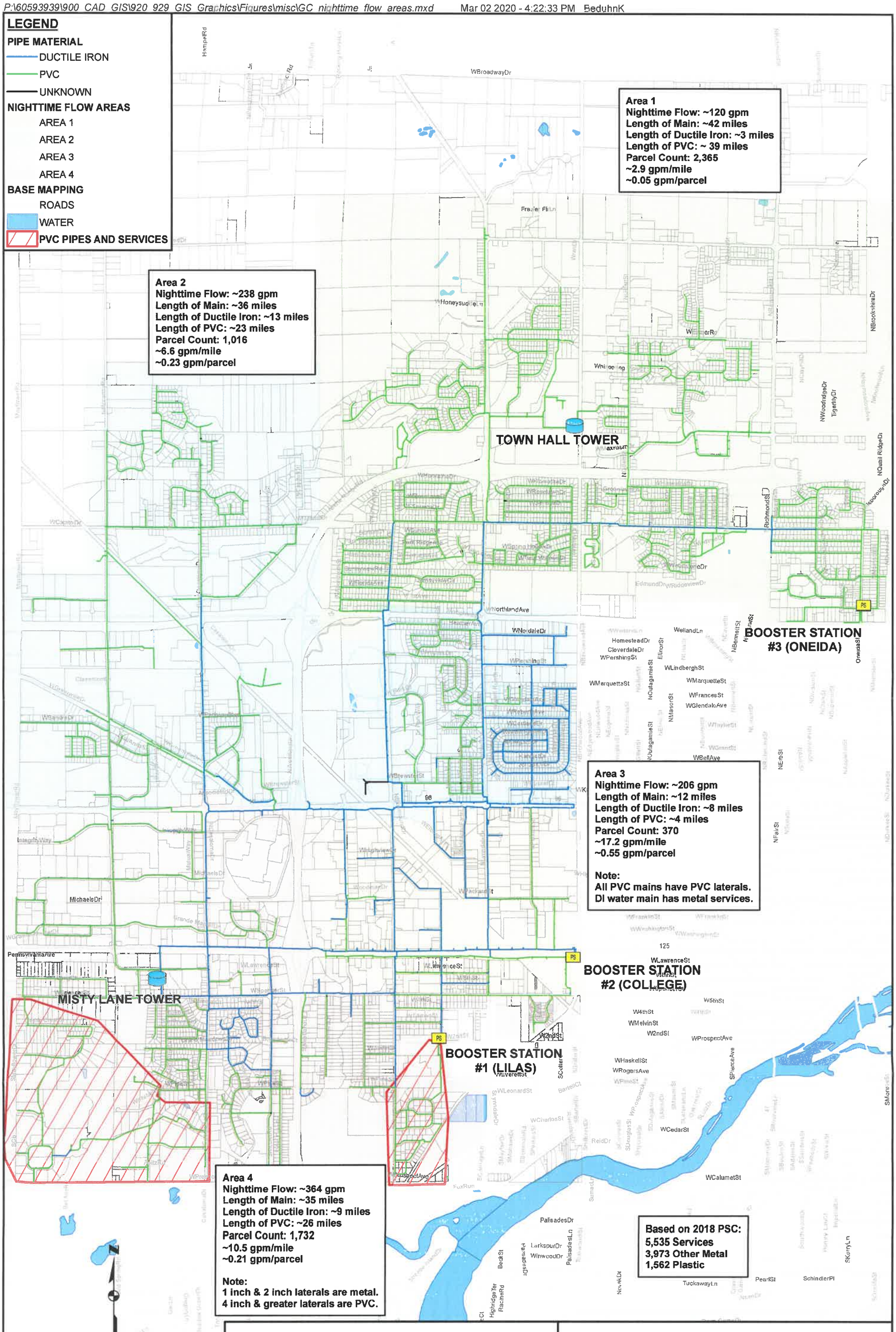

AECOM

FIGURE ES-1
NIGHTTIME FLOW MONITORING SUMMARY
GRAND CHUTE, WISCONSIN

MARCH 2020 60593939

Wetland Impact Study

1st Addition to Whispering Groves Subdivision

Prepared For The

Grand Chute

TOWN OF GRAND CHUTE
OUTAGAMIE COUNTY, WISCONSIN

FEBRUARY 21, 2020

McM. No. G0003-9-19-00686

NAVJ:jlh

McMAHON
ENGINEERS ARCHITECTS
1445 McMAHON DRIVE | NEENAH, WI 54956
Mailing P.O. BOX 1025 | NEENAH, WI 54957-1025
PH 920.751.4200 FX 920.751.4284 MCMGRP.COM

Wetland Impact Study

1st Addition to Whispering Groves Subdivision

Prepared For

Grand Chute

TOWN OF GRAND CHUTE
OUTAGAMIE COUNTY, WISCONSIN

FEBRUARY 21, 2020
McM. No. G0003-9-19-00686

TABLE OF CONTENTS

I. INTRODUCTION

II. BACKGROUND

III. HYDROLOGIC ANALYSIS

IV. SUMMARY

Wetland Impact Study

1st Addition to Whispering Groves Subdivision

Prepared For

Grand Chute

TOWN OF GRAND CHUTE
OUTAGAMIE COUNTY, WISCONSIN

FEBRUARY 21, 2020
McM. No. G0003-9-19-00686

I. INTRODUCTION

In the past few years, a property owner (Parcel ID 10102880) has expressed concern that recent residential development in the Town of Grand Chute has impacted the wooded wetland that is located just east of the 1st Addition to Whispering Groves Subdivision. The wetland area of concern and its 241-acre tributary watershed are depicted in Figures 1 and 2. Wetland concerns identified by the property owner include the following:

- Wet conditions in the wetland make wood cutting, hunting, and recreation difficult. Sport utility vehicles leave tire ruts and can sometimes get stuck, particularly in wetter low areas.
- Prior to construction of the adjoining residential development, the wetland would sometimes dry up during the summer months. The wetland areas located downslope of the subdivision's two wet detention ponds and the individual sump pump discharge pipes from the residential condo units have prolonged wetness during the year.
- Trees within the wetland appear stressed. The trees are potentially dying due to the prolonged wetness. The wetland appears to be changing due to the wetness.

In response to these concerns, the Town of Grand Chute requested that McMahon Associates, Inc. conduct a water balance or wetland impact study.

II. BACKGROUND

The wetland area of concern is depicted on the Wisconsin Wetland Inventory Map, which is depicted in Exhibit 1. The Wetland Inventory Map was developed in 1993. The wetland area of concern is classified as wooded wetland by Wisconsin Department of Natural Resources (WDNR).

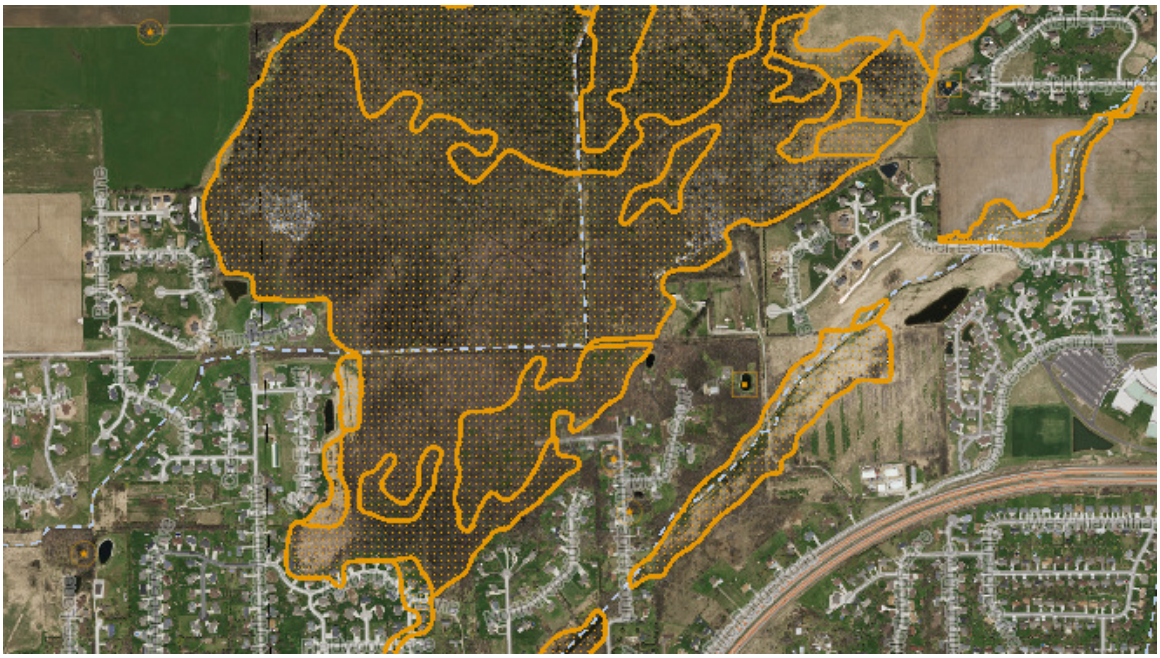

Exhibit 1 – Wisconsin Wetland Inventory Map

An unnamed navigable stream is also depicted in Exhibit 1, which is the blue dashed line. The navigable stream is located just south of the 1st Addition to Whispering Groves Subdivision. The navigable stream flows east and then north through the larger wetland complex. The unnamed stream eventually discharges into Bear Creek.

The unnamed navigable stream is also classified as a legal drainage ditch, which is regulated by the Outagamie County Drainage Board. According to the Department of Agriculture, Trade and Consumer Protection (DATCP) website, drainage districts are local governmental entities organized under a county drainage board for the purpose of draining lands for agriculture.

The legal drainage ditch is depicted in Exhibit 2 with a blue line. Exhibit 2 summarizes various elevations and slopes along the legal drain. The elevation and slope information were obtained from the Outagamie County Drainage Board. Based on Exhibit 2, the 10-year water surface elevation within the wetland area of concern is about 807.8. The 1 and 2-year water surface elevations along the legal drainage ditch are likely lower than the 10-year water surface elevation. The 1 and 2-year flow rates and associated water surface elevations tend to influence wetland growth and wetness, more than the 10-year flow rate and water surface elevation.

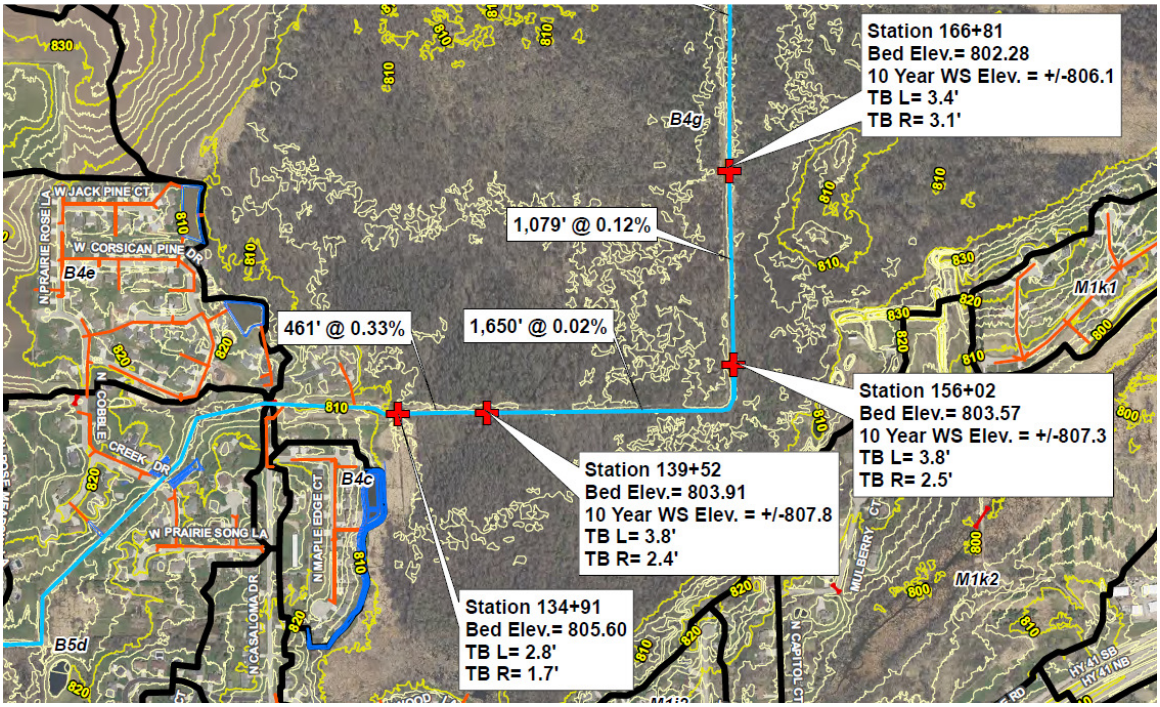

Exhibit 2 – Legal Drainage Ditch

Aerial photographs were reviewed for years 1938, 2010 and 2018. The aerial photographs for years 1938, 2010 and 2018 are depicted in Exhibits 3, 4 and 5, respectively. A comparison of the aerial photographs indicates forest expansion since 1938. The 1st Addition to Whispering Groves Subdivision plat is dated 2005, but based on the 2010 aerial photograph, very few homes were constructed prior to 2010 which is likely due to the recession.

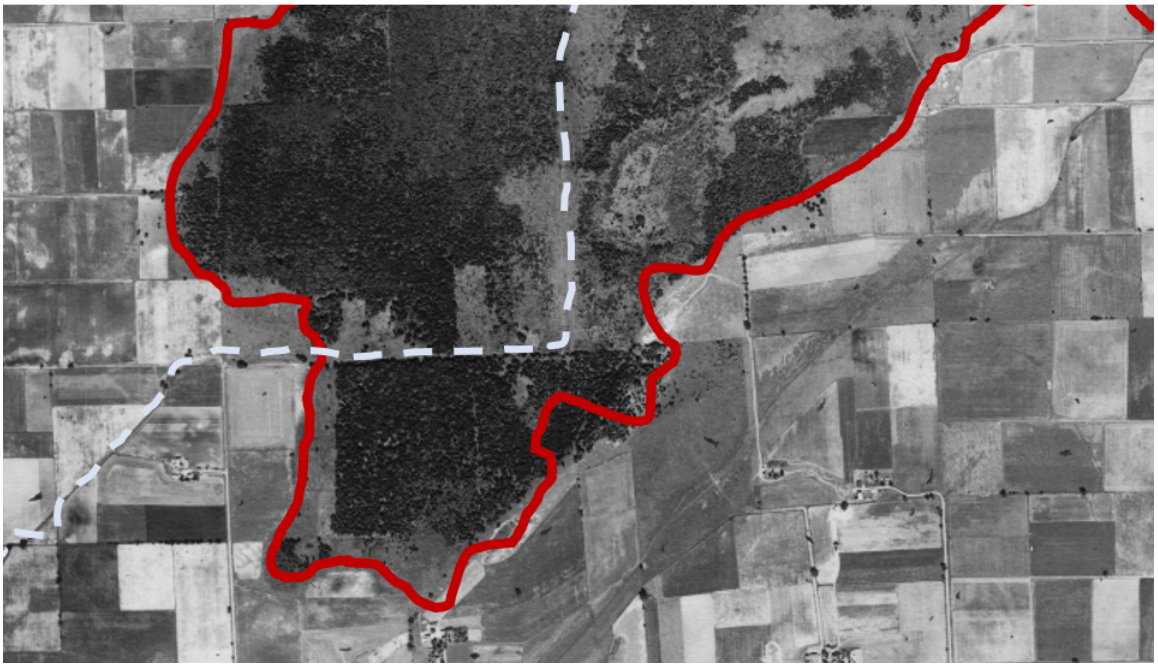

Exhibit 3 – 1938 Aerial Photograph

Exhibit 4 – 2010 Aerial Photograph

Exhibit 5 – 2018 Aerial Photograph

Two wet detention ponds were constructed within the 1st Addition to Whispering Groves Subdivision. The two detention ponds are depicted in Exhibit 6. Runoff from the subdivision drains into the detention ponds prior to discharging into the wetland area of concern, including sump pump discharges from individual residential homes located within the subdivision.

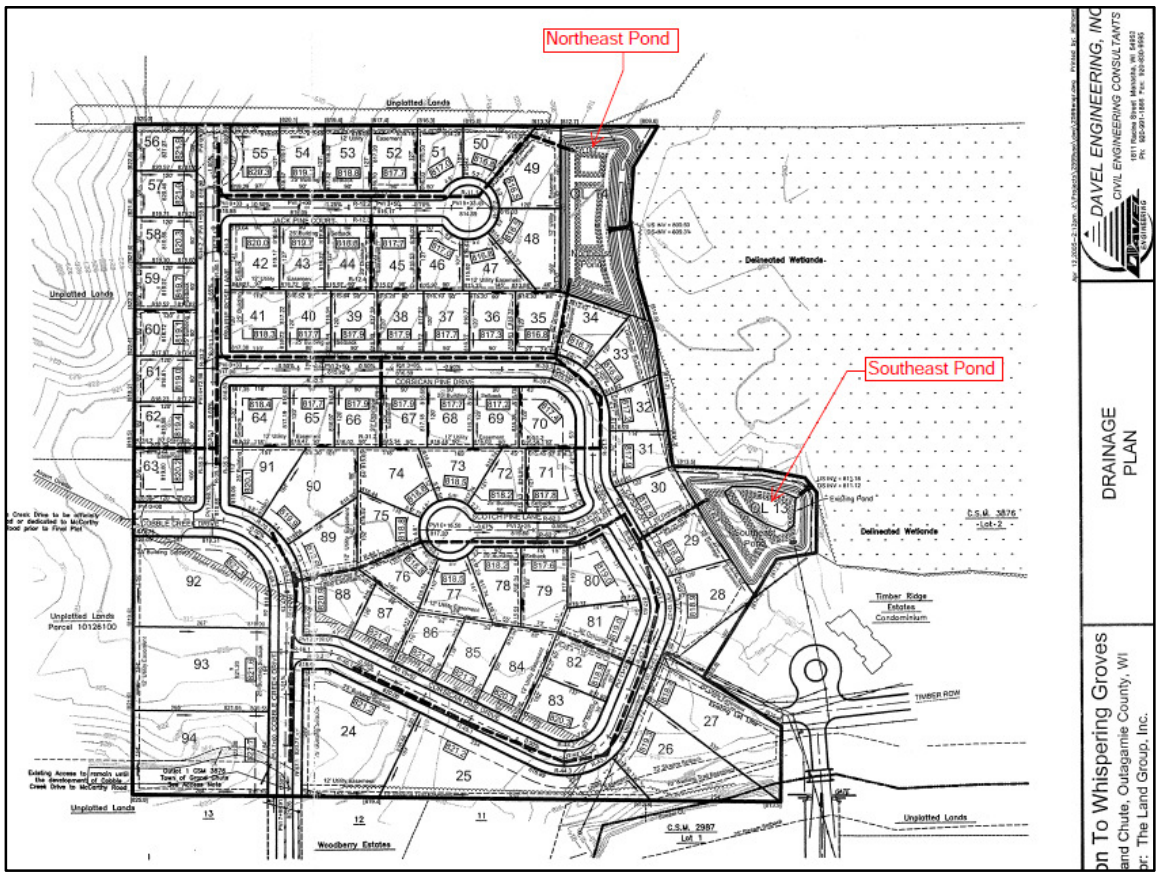

Exhibit 6 – Wet Detention Ponds within 1st Addition to Whispering Groves

The wetland area located directly east of the 1st Addition to Whispering Groves Subdivision (Parcel ID 10102880) was purchased by John and Jennifer Heimann during 2017. The Heimann family also owns other parcels located to the east of Parcel ID 10102880.

III. HYDROLOGIC ANALYSIS

A hydrologic analysis was performed to estimate the total volume of water being discharged into the wetland area of concern on a daily, monthly and yearly basis. Information used to perform the hydrologic analysis and results of the analysis are provided herein.

A. PRECIPITATION

A precipitation analysis was performed for the watershed that is tributary to the wetland area of concern. The watershed draining to the wetland area of concern is 241 acres in size. The watershed is depicted in Figures 1 and 2. Based on available information, the watershed size has not significantly changed during the 20-year period (1999 through 2018/2019). McMAHON determined the watershed was 240.87 acres in size during 1999 and 241.03 acres in size during 2018, which is a 0.16 acre increase in size.

Soil information within the watershed was obtained from the *Outagamie County Soil Survey,* Natural Resource Conservation Service, U.S. Department of Agriculture. The U.S. Department of Agriculture has classified soil types into four Hydrologic Soil Groups (HSG). The four HSG's (i.e. A, B, C and D) are classified according to the minimum infiltration rate of the soil column. Group A soils have the highest permeability rate or lowest runoff potential, whereas Group D soils have the lowest permeability rate or highest runoff potential. Hydrologic soil groups within the watershed are depicted in Figure 3.

Land uses during 1999 are depicted in Figure 4 and land uses during 2018 (current) are depicted in Figure 5. Land uses are summarized in Table 1.

Table 1
Land Uses

Land Use	1999 Land Uses		2018 Land Uses	
	(acres)	(%)	(acres)	(%)
Agriculture	178.70	74.2%	146.03	60.6%
Farmstead	4.99	2.1%	5.41	2.2%
Grass	1.44	0.6%	4.82	2.0%
Low Density Residential			7.73	3.2%
Medium Density Residential			23.65	9.8%
Rural Road	3.42	1.4%	3.42	1.4%
Water			1.14	0.5%
Wetlands	48.67	20.2%	48.67	20.2%
Woods	3.65	1.5%	0.16	0.1%
Total:	240.87		241.03	

Land uses within the 241-acre watershed changed slightly between 1999 and 2018. Most of the land use changes are due to converting agriculture or woods into farmstead, grass or residential subdivision. The composite Curve Number (CN) for the 241-acre watershed is estimated to be 79 during 1999 and 80 during 2018 for average antecedent moisture.

Historical precipitation or rainfall data was obtained from the National Weather Service (NWS). The NWS does not collect 24-hour rainfall data within the Town of Grand Chute. As such, rainfall information for this analysis is based on the NWS rain gauge located within the City of Appleton. The NWS rain gauge in the City was determined to be closest to the study area. A plot of annual rainfall depths from 1938 to 2018 (80-year period) is provided in Exhibit 7 and a plot of annual rainfall depths from 1999 to 2018 (most recent 20-year period) is provided in Exhibit 8. As shown in Exhibits 7 and 8, the trend line indicates rainfall is increasing within Northeast Wisconsin, particularly within the most recent 20-year period of record.

B. PRECIPITATION RUNOFF

Using historical precipitation depths from NWS, a rainfall runoff analysis was performed using TR-55 methodology for the most recent 20-year period of record.

Starting in year 2006 and ending in year 2018, additional runoff discharge volume was linearly added to each year of record, which accounts for incremental land use changes or urbanization during this period. Based on the 2005 subdivision plat date, construction of streets within the 1st Addition to Whispering Groves Subdivision is likely to have started during year 2006 and construction of homes likely started during year 2007.

A summary of annual precipitation or rainfall runoff volumes within the 241-acre watershed is provided in Table 2 for the most recent 20-year period. The rainfall runoff discharge for the most recent 20-year period is depicted in Exhibit 9. In order to show the effects of increased rainfall amounts, Exhibit 9 does not include snowmelt and sump pump discharge volumes. As shown in Exhibit 9, the trend line indicates rainfall runoff discharges have increased about 230% in the Town of Grand Chute for the most recent 20-year period. The increase in runoff is primarily attributed to the increase in rainfall depths during this 20-year period. Of the 230% rainfall runoff volume increase provided by the trend line, approximately 89% is attributed to increases in precipitation and approximately 11% is attributed to changes in land use within the watershed, which is primarily due to urbanization or conversion of undeveloped land into farmsteads and residential subdivisions.

This 20-year period provides a more recent point of reference for wetness comparisons or wetland conditions, as compared to the 80-year period. It is unlikely that Town staff, elected officials and land owners have extensive knowledge or memories of wetland conditions prior to 1999.

C. SNOWFALL

A snowmelt analysis was performed for the wetland. Historic snowfall data was obtained from the NWS. The NWS does not collect snowfall data within the Town of Grand Chute. As such, snowfall information is based on the NWS gauge located within the City of Appleton. The NWS gauge in the City was determined to be closest to the study area. Using this information, a snowmelt analysis was performed for the most recent 20-year period of record.

Starting in year 2006 and ending in 2018, additional snowmelt discharge volume was linearly added to each year of record which accounts for incremental urbanization during

this period (similar to precipitation runoff volume). Based on the 2005 subdivision plat date, construction of streets within the 1st Addition to Whispering Groves Subdivision is likely to have started during year 2006 and construction of homes likely started during year 2007.

A summary of annual snowmelt runoff volumes within the 241-acre watershed is provided in Table 2.

D. SUMP PUMPS

A sump pump or groundwater analysis was performed for the wetland. Sump pump discharge rates were provided by a few residential landowners located near the wetland complex of concern.

During 1999, three (3) residential homes were located within the watershed. These homes likely had basement sump pumps located above the wetland's ground surface elevation of 810. These three (3) sump pumps are assumed to generate 5 gallons of groundwater discharge over a 1-hour duration on each day of rainfall or snowmelt.

During 2018, seventy-four (74) residential sump pumps were likely discharging to the wetland. Of these 74 sump pumps, fifteen (15) sump pumps were likely located below the wetland's ground surface elevation of about 810 and directly adjacent to either the wetland or a wet detention pond. These 15 sump pumps are assumed to generate 520 gallons of groundwater discharge over a 1-hour duration on each day of rainfall or snowmelt. During periods of no rainfall or snowmelt, these 15 sump pumps are assumed to generate 130 gallons per hour of groundwater discharge. Of these 74 sump pumps, thirty-five (35) sump pumps were likely located below the wetland's ground surface elevation of about 810, but not located adjacent to the wetland or a wet detention pond. These 35 sump pumps are assumed to generate 104 gallons of groundwater discharge over a 1-hour duration on each day of rainfall or snowmelt. During periods of no rainfall or snowmelt, these 35 sump pumps are assumed to generate 5 gallons per hour of groundwater discharge. Of these 74 sump pumps, the remaining twenty-four (24) sump pumps likely have basement sump pumps located above the wetland's ground surface elevation of 810. These 24 sump pumps were assumed to generate 5 gallons of groundwater discharge over a 1-hour duration on each day of rainfall or snowmelt. During periods of no rainfall or snowmelt, these 24 sump pumps are assumed to generate 0 gallons per hour of groundwater discharge.

Starting in year 2007 and ending in 2018, additional sump pump discharge volume was added to each year of record, which accounts for incremental urbanization during this period. Based on the 2005 subdivision plat date, construction of streets within the 1st

Addition to Whispering Groves Subdivision is likely to have started during year 2006 and first sump pump was likely added during year 2007.

A summary of annual sump pump discharge volumes within the 241-acre watershed is provided in Table 2. As residential homes were constructed within the 1st Addition to Whispering Groves Subdivision, additional sump pump discharges are anticipated.

E. TOTAL VOLUME

The total volume of water originating in the watershed and entering the wetland from January 1st to December 31st of each calendar year is summarized in Table 2. The results provided in Table 2 are also graphically summarized in Exhibits 10 and 11.

As shown in Exhibit 10, the trend line indicates total volumes being discharged into the wetland have increased about 730% for the most recent 20-year period. As shown in Exhibit 11, the increase in volume is primarily attributed to the increase in sump pump discharges during this 20-year period and partially attributed to the increase in rainfall depths during this 20-year period.

This 20-year period provides a more recent point of reference for wetness comparisons or wetland conditions, as compared to an 80-year period. It is unlikely that Town staff, elected officials and land owners have extensive knowledge or memories of wetland conditions prior to 1999.

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Table 2
Total Volume to Wetland

Year	Rainfall Depth (inches)	Rainfall Runoff Volume (acre-feet)	Snowfall Runoff Volume (acre-feet)	Sump Pump Volume (acre-feet)	Total Volume (acre-feet)
1999	26.69	25.0	4.9	0.0	29.9
2000	26.55	30.4	9.2	0.0	39.7
2001	27.15	24.5	0.0	0.0	24.5
2002	24.92	11.4	1.9	0.0	13.3
2003	26.44	78.2	1.6	0.0	79.8
2004	36.04	16.9	4.8	0.0	21.7
2005	32.82	25.2	6.6	0.0	31.9
2006	26.79	18.9	3.4	0.0	22.3
2007	27.72	23.4	11.9	4.7	40.0
2008	31.88	39.3	15.5	9.4	64.2
2009	36.79	26.5	13.9	14.0	54.4
2010	31.02	91.8	8.8	18.6	119.2
2011	43.59	42.0	19.7	23.3	85.0
2012	37.81	28.8	10.1	27.6	66.5
2013	30.11	37.1	7.9	32.8	77.9
2014	35.56	73.6	7.1	37.7	118.4
2015	37.30	70.6	11.2	36.9	118.6
2016	37.57	48.3	9.1	46.8	104.3
2017	36.61	33.3	3.4	51.3	88.0
2018	37.75	108.0	16.8	55.6	180.4

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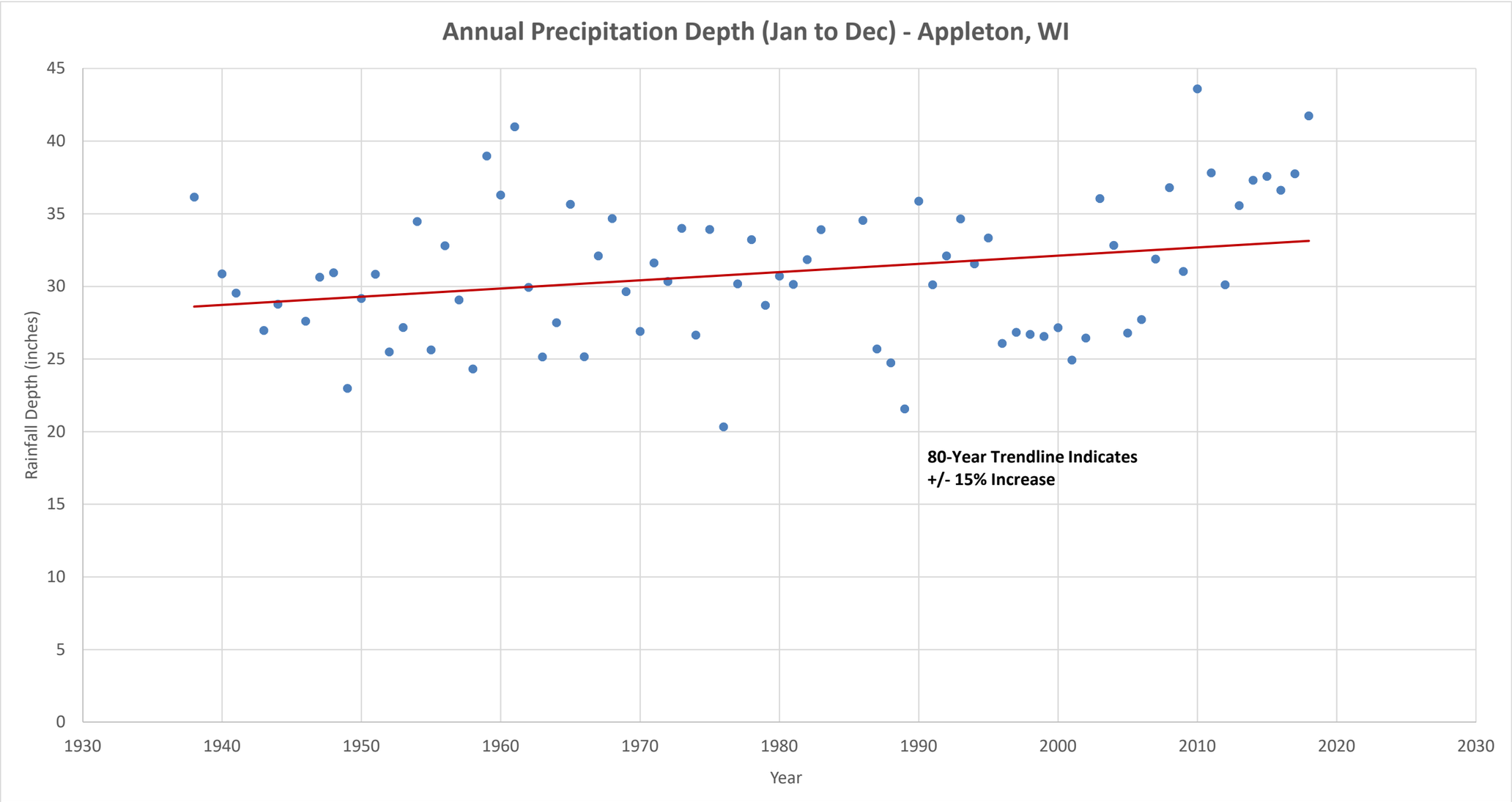

Exhibit 7 –Annual Precipitation Depth for 80-Year Period (January 1 to December 31)

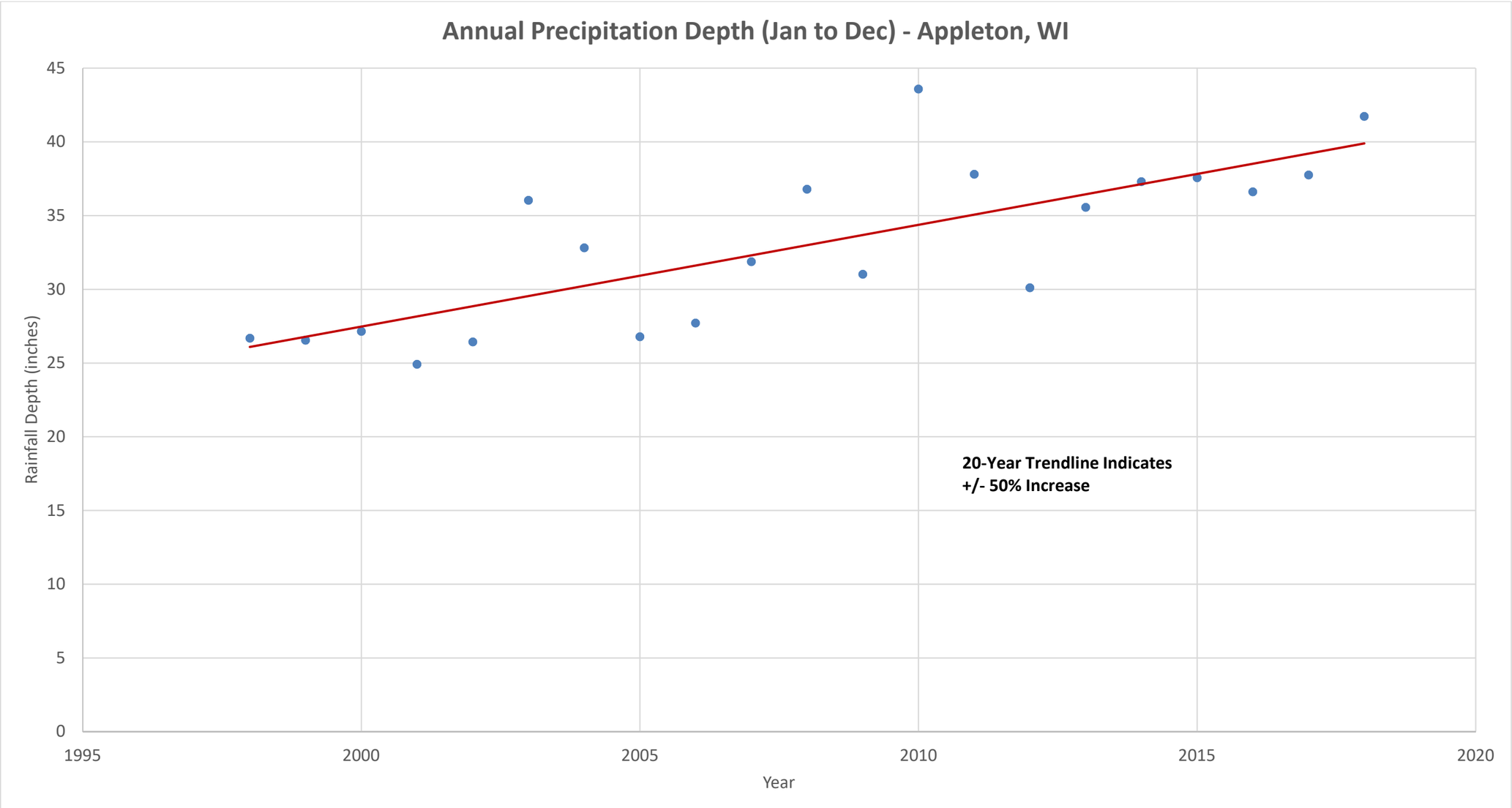

Exhibit 8 – Annual Precipitation Depth for Most Recent 20-Year Period (January 1 to December 31)

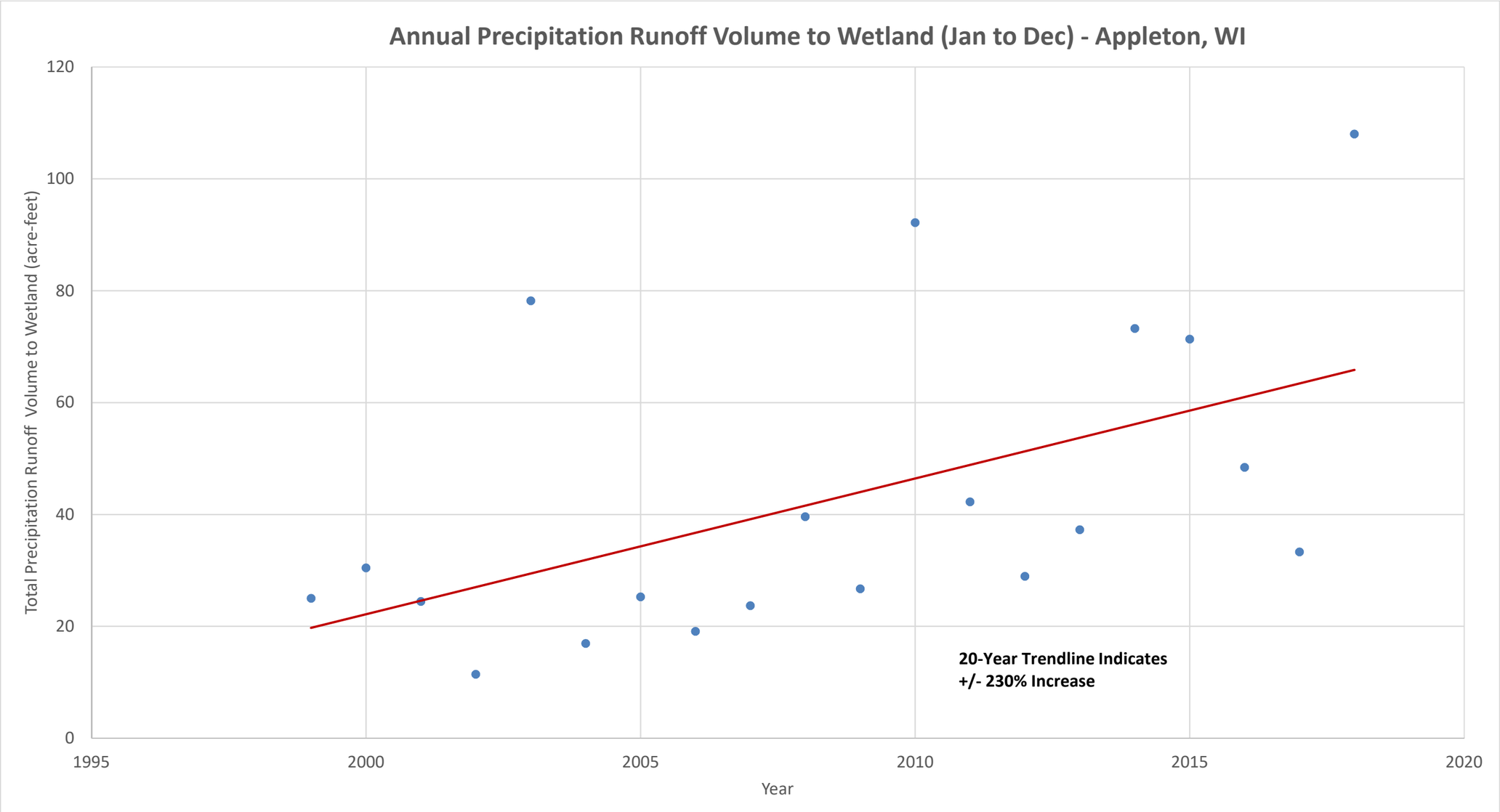

Exhibit 9 – Annual Precipitation Runoff Volume to Wetland for Most Recent 20-Year Period (January 1 to December 31)

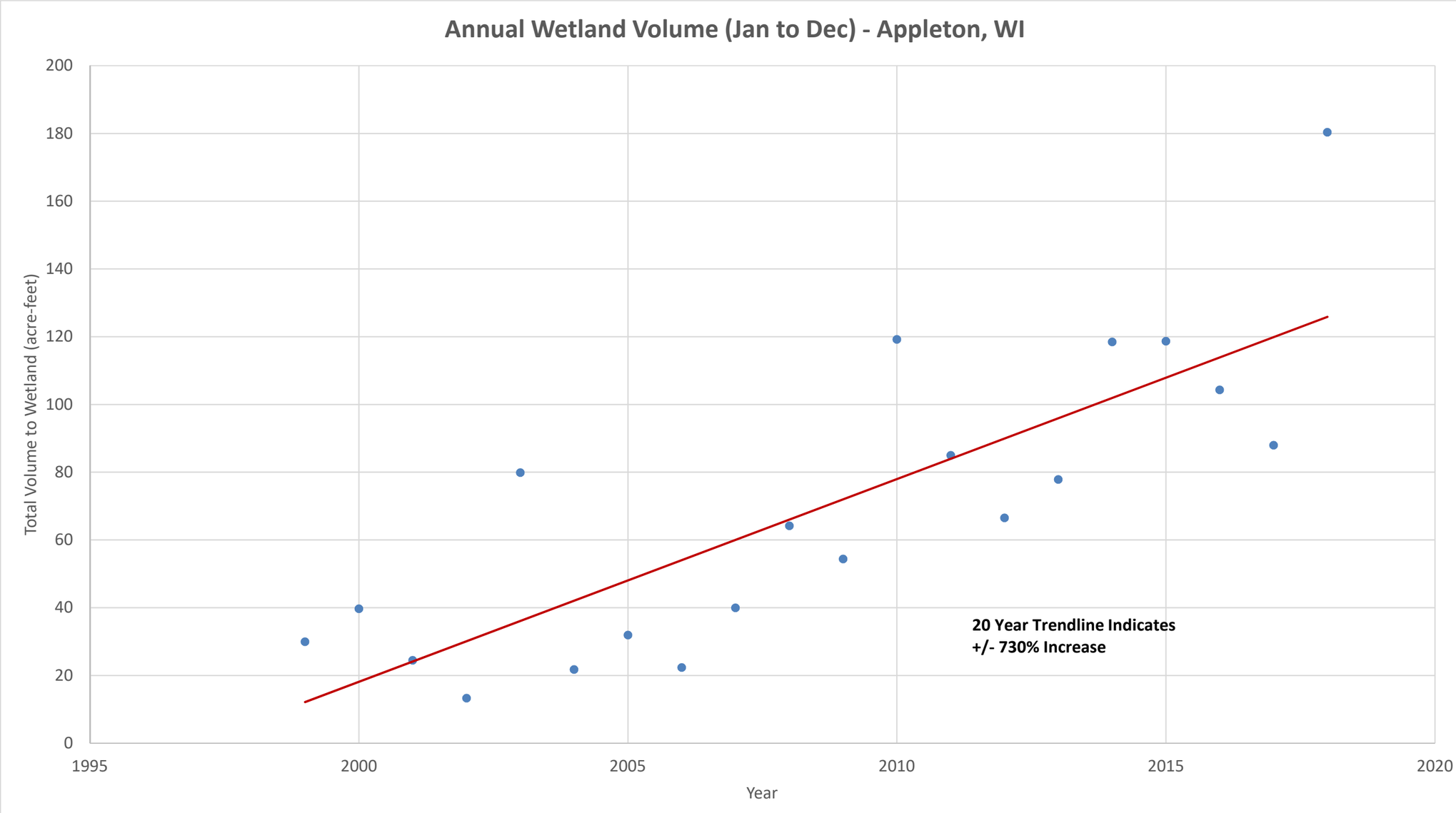

Exhibit 10 – Annual Total Volume to Wetland for Most Recent 20-Year Period (January 1 to December 31)

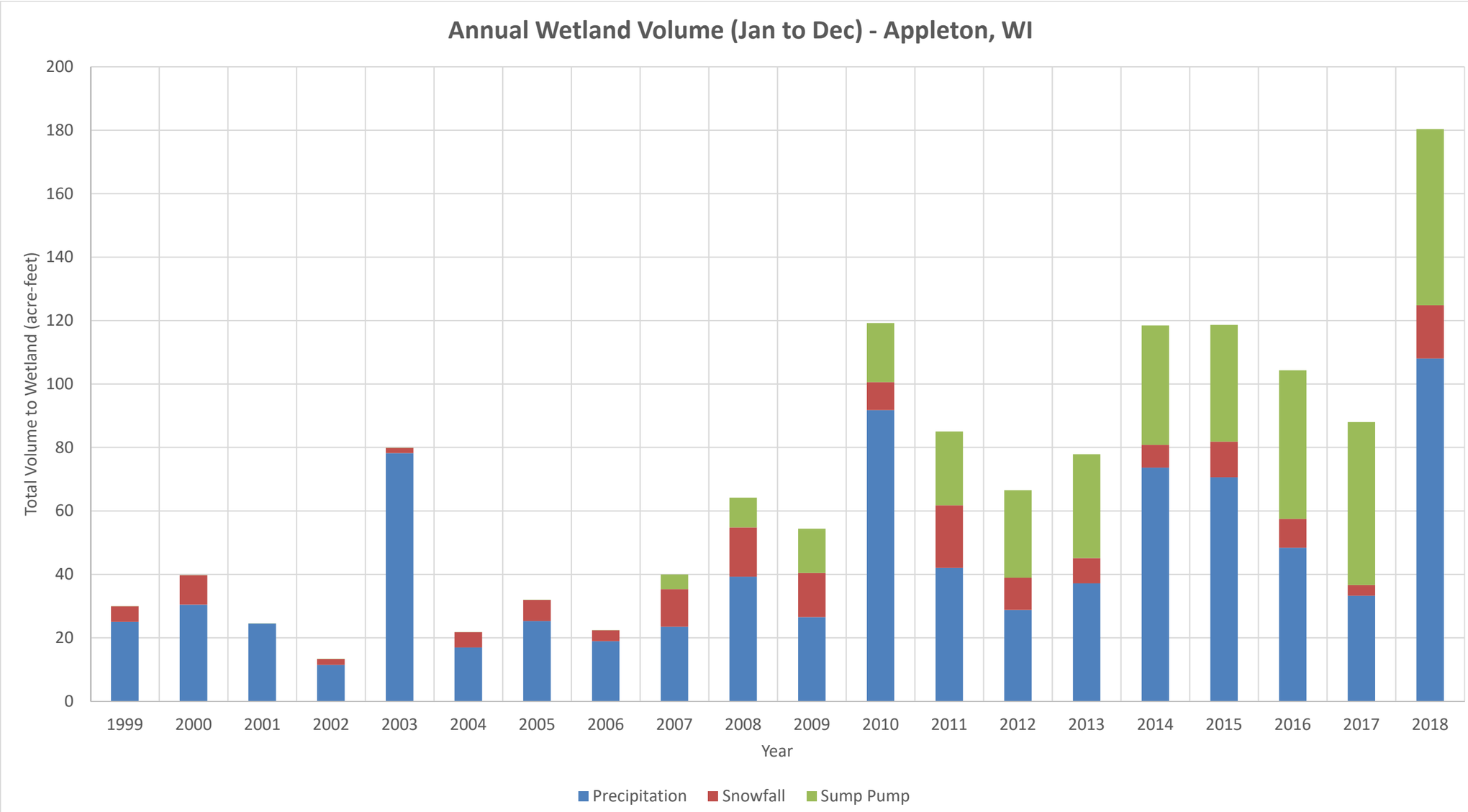

Exhibit 11 – Annual Total Volume to Wetland for Most Recent 20-Year Period (January 1 to December 31)

IV. SUMMARY

As shown in Exhibits 10 and 11, the total volume discharged into the wetland appears to be more attributed to sump pump discharges, as compared to annual fluctuations in rainfall and snowfall.

Please note that cropland drain tiles were excluded from this analysis due to a lack of information. Based on information generated by the County in 2013, many of the agricultural fields located in the 241-acre watershed are believed to have drain tiles.

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Grand Chute

1999 Watershed Boundary

B4f1 Drainage Area and ID

Other Mapped Features

Municipal Boundary

Parcel Line

Stream

Index Contour

Index Contour Depression

Intermediate Contour

Intermediate Contour Depression

WDNR Wetlands

Source: Outagamie County, 2000-19; WDNR, 2019.

Disclaimer: The property lines, right-of-way lines, and other property information on this drawing were developed or obtained as part of the County Geographic Information System or through the County property tax mapping function. McMAHON does not guarantee this information to be correct, current, or complete. The property and right-of-way information are only intended for use as a general reference and are not intended or suitable for site-specific uses. Any use to the contrary of the above stated uses is the responsibility of the user and such use is at the user's own risk.

N

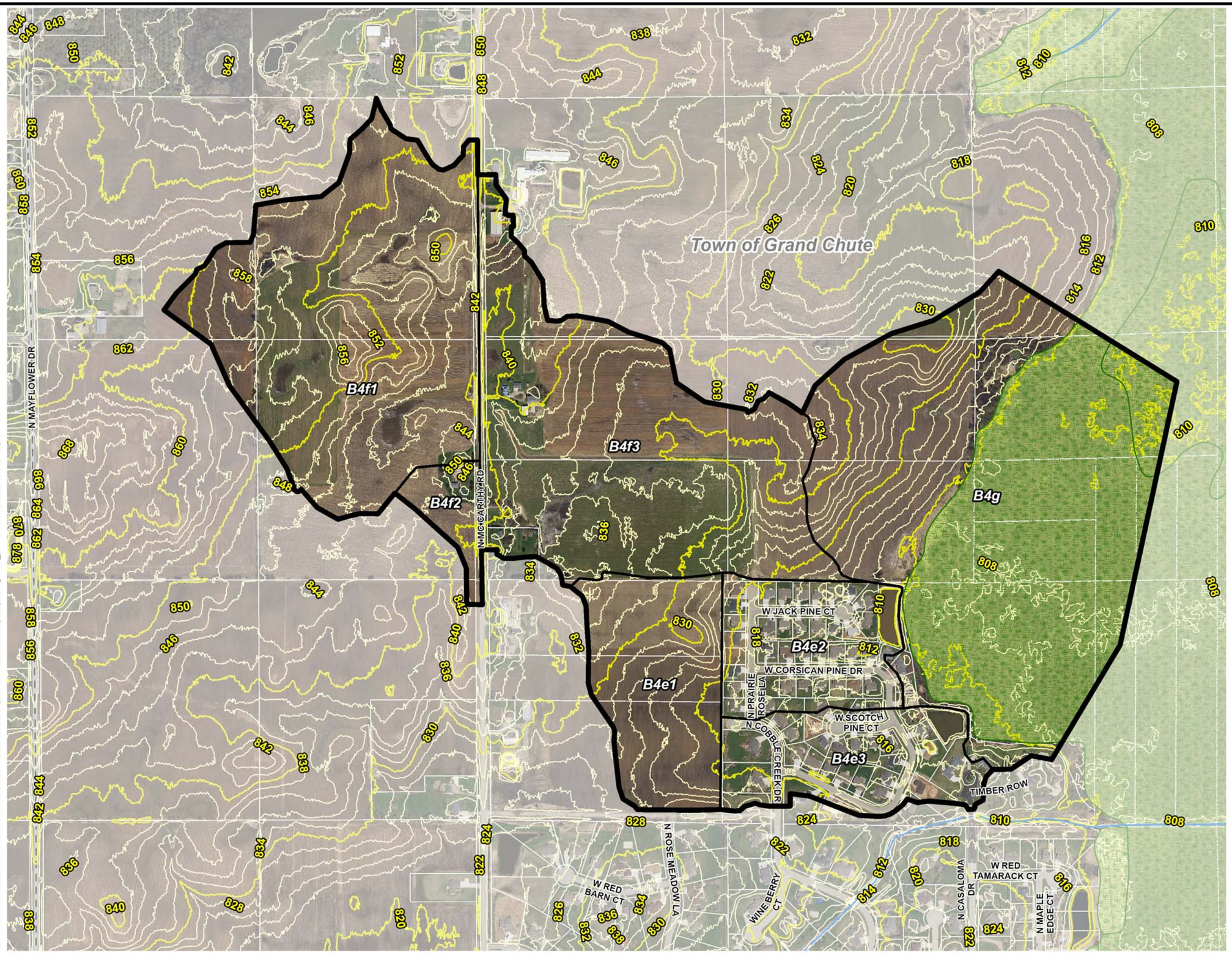
0 500 1,000 Feet

McMAHON ENGINEERS ARCHITECTS

McMAHON ASSOCIATES, INC.

FIGURE 1
1999 WATERSHED
WHISPERING GROVES SUBDIVISION
WATER BALANCE
TOWN OF GRAND CHUTE
OUTAGAMIE COUNTY, WISCONSIN

w:\PROJECTS\G0003\91900686\CADD\GIS\WaterBalanceMaps\WaterBalanceMaps.aprx\Figure1_B November 26, 2019 kpk



Grand Chute

2019 Watershed Boundary

B4f1 Drainage Area and ID

Other Mapped Features

Municipal Boundary

Parcel Line

Stream

Index Contour

Intermediate Contour

WDNR Wetlands

Source: Outagamie County, 2005-19; WDNR, 2019.

Disclaimer: The property lines, right-of-way lines, and other property information on this drawing were developed or obtained as part of the County Geographic Information System or through the County property tax mapping function. McMAHON does not guarantee this information to be correct, current, or complete. The property and right-of-way information are only intended for use as a general reference and are not intended or suitable for site-specific uses. Any use to the contrary of the above stated uses is the responsibility of the user and such use is at the user's own risk.

N

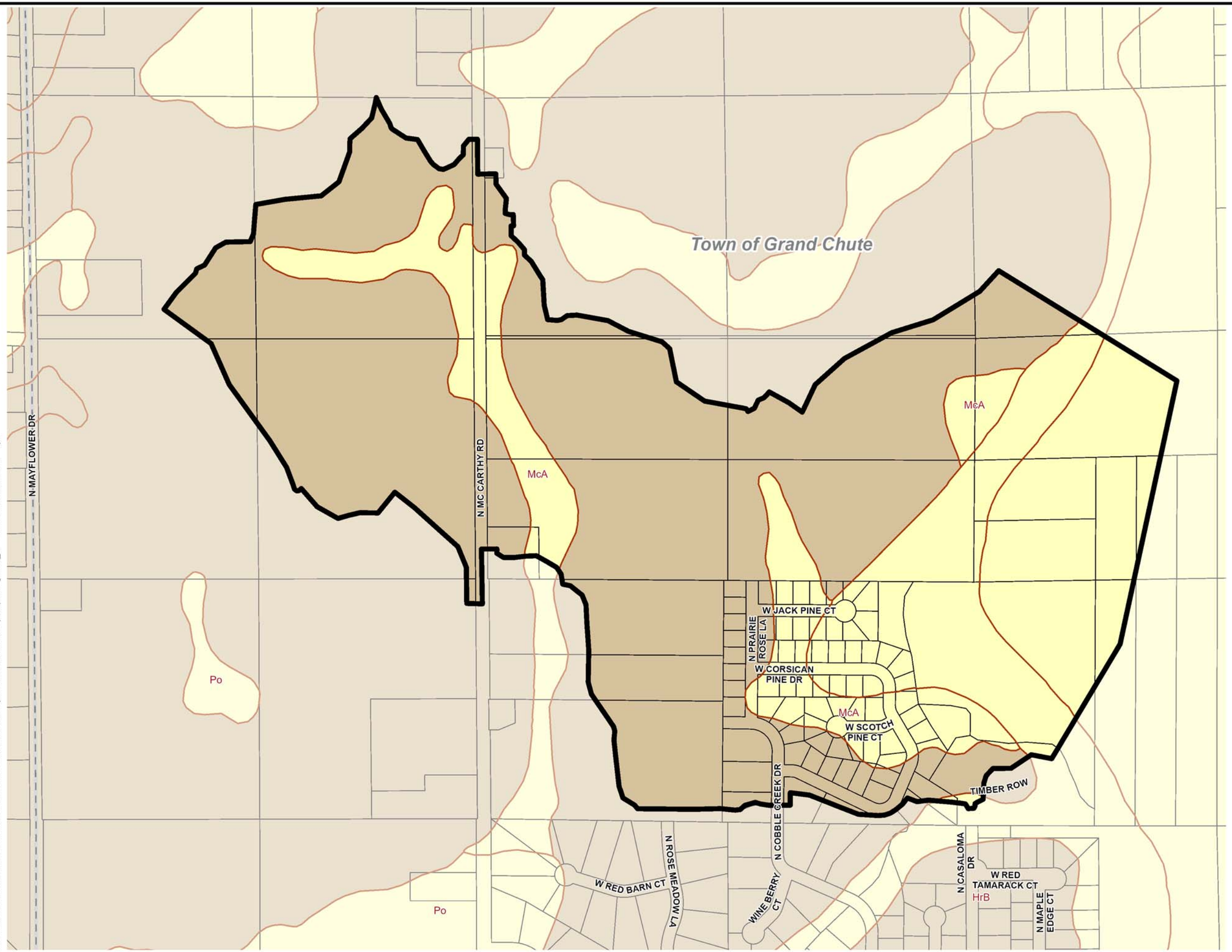
0 500 1,000 Feet

McMAHON ENGINEERS ARCHITECTS

McMAHON ASSOCIATES, INC.

FIGURE 2
2019 WATERSHED
WHISPERING GROVES SUBDIVISION
WATER BALANCE
TOWN OF GRAND CHUTE
OUTAGAMIE COUNTY, WISCONSIN

w:\PROJECTS\G0003\91900686\CADD\GIS\WaterBalanceMaps\WaterBalanceMaps.aprx\Figure2_B November 26, 2019 kpk



Grand Chute

Hydrologic Soil Group (HSG)

- HSG A
- HSG B
- HSG C
- HSG D

Other Mapped Features

- McA Soil Type
- 2019 Watershed Boundary
- Municipal Boundary
- Parcel Line
- Stream

Source: Outagamie County, 2005-19; WDNR, 2019; USDA, 2018.

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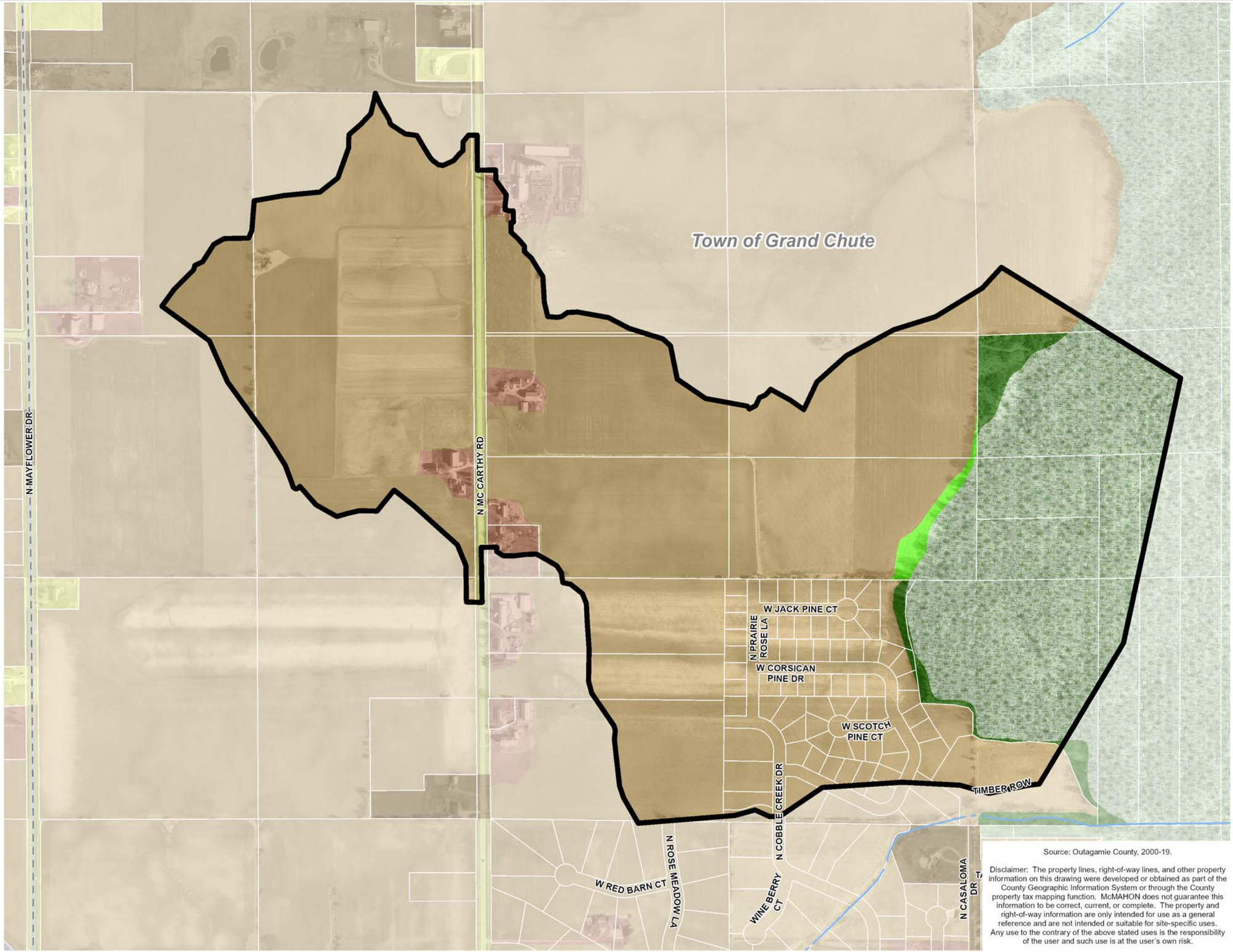
0 500 1,000 Feet

McMAHON ENGINEERS ARCHITECTS
McMAHON ASSOCIATES, INC.

FIGURE 3
SOILS
WHISPERING GROVES SUBDIVISION
WATER BALANCE
TOWN OF GRAND CHUTE
OUTAGAMIE COUNTY, WISCONSIN

w:\PROJECTS\G0003\91900686\CADD\GIS\WaterBalanceMaps\WaterBalanceMaps.aprx\Figure3_B November 25, 2019 kpk



Source: Outagamie County, 2000-19.

Disclaimer: The property lines, right-of-way lines, and other property information on this drawing were developed or obtained as part of the County Geographic Information System or through the County property tax mapping function. McMAHON does not guarantee this information to be correct, current, or complete. The property and right-of-way information are only intended for use as a general reference and are not intended or suitable for site-specific uses. Any use to the contrary of the above stated uses is the responsibility of the user and such use is at the user's own risk.

Grand Chute

SLAMM Standard Land Uses

- AGRIC - Agriculture, including limited roads and buildings
- FRMSTD - Farmstead including limited houses, buildings, driveways, and parking areas
- GRASS - Undeveloped land that is vegetated with grass (transformer stations, vacant lots, radio/TV transmission, water towers)
- LDR - Low density single-family residential (1/2 acre to 1.5 acre lots)
- MDR - Medium density single-family residential (1/4 to 1/2 acre lots)
- PARK - Outdoor recreational areas (golf course, arboretums, botanical gardens, municipal playgrounds, natural areas).
- RURALRD - Rural Road
- SUBR - Suburban residential (1.5 to 5 acre lots)
- WETLND - DNR Wetland Inventory Map (> 2 acres)
- WOODS - Undeveloped land that is vegetated with woods

Other Mapped Features

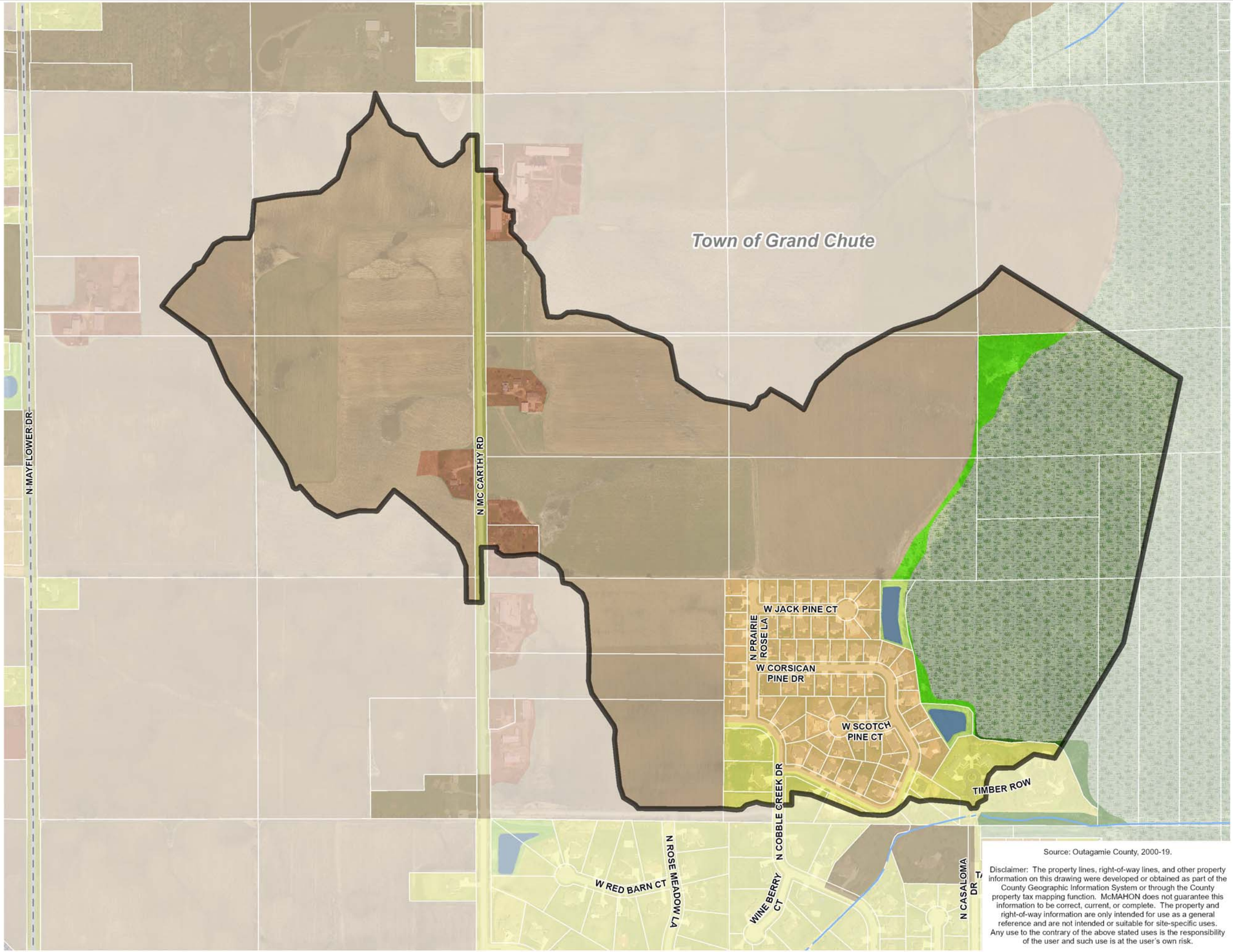
- 1999 Watershed Boundary
- Municipal Boundary
- Parcel Line
- Stream

0 500 1,000 Feet

McMAHON ENGINEERS ARCHITECTS
McMAHON ASSOCIATES, INC.

FIGURE 4
1999 LAND USE
WHISPERING GROVES SUBDIVISION
WATER BALANCE
TOWN OF GRAND CHUTE
OUTAGAMIE COUNTY, WISCONSIN

w:\PROJECTS\G0039\1900686\CADD\GIS\WaterBalanceMaps\WaterBalanceMaps.aprx\Figure4_B November 26, 2019 kpk



Source: Outagamie County, 2000-19.

Disclaimer: The property lines, right-of-way lines, and other property information on this drawing were developed or obtained as part of the County Geographic Information System or through the County property tax mapping function. McMAHON does not guarantee this information to be correct, current, or complete. The property and right-of-way information are only intended for use as a general reference and are not intended or suitable for site-specific uses. Any use to the contrary of the above stated uses is the responsibility of the user and such use is at the user's own risk.

Grand Chute

SLAMM Standard Land Uses

- AGRIC - Agriculture, including limited roads and buildings
- FRMSTD - Farmstead including limited houses, buildings, driveways, and parking areas
- GRASS - Undeveloped land that is vegetated with grass (transformer stations, vacant lots, radio/TV transmission, water towers)
- GRASS_SWPOND - Vegetated land around a stormwater pond
- LDR - Low density single-family residential (1/2 acre to 1.5 acre lots)
- MDR - Medium density single-family residential (1/4 to 1/2 acre lots)
- PARK - Outdoor recreational areas (golf course, arboretums, botanical gardens, municipal playgrounds, natural areas).
- RURALRD - Rural Road
- SUBR - Suburban residential (1.5 to 5 acre lots)
- WATER_SWPOND - Open water associated with stormwater pond
- WETLND - DNR Wetland Inventory Map (> 2 acres)
- WOODS - Undeveloped land that is vegetated with woods

Other Mapped Features

- 2019 Watershed Boundary
- Municipal Boundary
- Parcel Line
- Stream

0 500 1,000 Feet

McMAHON ENGINEERS ARCHITECTS
McMAHON ASSOCIATES, INC.

FIGURE 5
CURRENT LAND USE
WHISPERING GROVES SUBDIVISION
WATER BALANCE
TOWN OF GRAND CHUTE
OUTAGAMIE COUNTY, WISCONSIN

w:\PROJECTS\G0003\91900686\CADD\GIS\WaterBalanceMaps\WaterBalanceMaps.aprx\Figure5_B November 26, 2019 kpk

Whispering Groves Drainage Meeting Agenda
March 6, 2020 @ 8 AM, Town of Grand Chute

Meeting Attendants:

- Katie Schwartz, Karen Heyrman, Todd Prahl – Town of Grand Chute
- John and Bob Heimann – Adjoining Landowners
- Jerry Iverson – Timber Row
- John Sorebo – Whispering Groves

Items of Concern:

1. Project summary to date
    - June 2016 – Letter sent from Outagamie County to Town regarding options for diverting water currently being discharged into wooded area. Primary concern cited is the constant flow from sump pumps into the woods creating a saturated condition.
    - November 2017 – Town signs professional services agreement with McMahon to determine if retention ponds are functioning properly and to determine the feasibility of rerouting this discharge through a storm sewer system.
    - December 2017 – McMahon provides a feasibility study of project. It is determined that the most viable option would be a 1,900' , 8-inch diameter pipe at 0.19% - this would take the low flows to the legal drain while high flows would continue to discharge as they do today; however, this is considered a flat slope and would only achieve "self-cleaning" during pressure conditions such as a storm event. The proposed pipe will be shallow. In addition, additional easements will be required to construct, operate, and maintain the storm sewer system.
    - 2018 – Various on-site meetings held with property owners to discuss and review proposed route. Several minor route modifications were made based on property owner meetings in 2018.
    - February 2019 – Ponds surveyed. The survey was compared against the approved subdivision drainage plan and it was concluded that the ponds still have sufficient storage volume and do not have to be dredged at this time. Please note that the ponds are privately owned by the surrounding homeowners of the subdivision.
    - February 2019 – McMahon contacted WDNR regarding wetlands. Per WNDR, the proposed route will need to avoid wetland impacts where possible.
    - May 2019 – Pond dye testing performed. No visible leaks were observed in the embankment, clay liners or inlet/outlet pipes of either pond. However, the southeast pond's 4" outlet pipe lacks a watertight seal between the PVC and the concrete structure, allowing a small amount of water underneath the pipe. This will need to be addressed.
    - May 2019 – Wetland delineation report completed for the project corridor. The wetlands along the north and east side of the southern pond generally follow the toe of the berm. As a result, storm sewer installation along this route would not be desirable without having to cut through the berm which would be cost prohibitive and cause potential problems with the berm.
    - September 2019 – Sanitary District 3 approves the proposal from McMahon to complete a wetland analysis related to the Whispering Groves drainage project.
    - February 2020 – The Wetland Impact Study is completed

2. Results of Wetland Impact Study
    - Based on aerial photographs, there was forest expansion from 1938 to 2010.
    - Based on available information, the watershed size has not significantly changed since 1999 while the composite Curve Number (CN – an indicator of precipitation runoff) essentially remained unchanged (79 – 80).
    - Trendline indicates rainfall is increasing in NE Wisconsin, particularly within the most recent 20-year period of record. Exhibit 9 indicates rainfall runoff discharges have increased about 230% in the Town for the most recent 20-year period (of that increase, approximately 89% is attributed to an increase in precipitation while 11% to changes in land use).
    - Incremental sump pump discharge over time was included in the analysis and is depicted in both Table 2 and included in the analysis of Exhibit 10. The overall increase in volume is primarily attributed to the increase in sump pump discharges and partially attributed to the increase in rainfall depths.

3. Possible next steps/recommendation(s)
    - Have all options been explored? Meet with permitting agencies to further discuss options – update this team and Sanitary Commission regarding a path forward.

Check Number	Check Issue Date	Payee	Invoice Number	Description	Invoice GL Account	Check Amount
95221	03/17/2020	WITTHUHN PRINTING CO. INC	2046	#10 WINDOW ENVELOPES FOR DPW MAILINGS	61-01-92100-310	76.60
95221	03/17/2020	WITTHUHN PRINTING CO. INC	2046	#10 WINDOW ENVELOPES FOR DPW MAILINGS	62-02-85100-310	76.60
95221	03/17/2020	WITTHUHN PRINTING CO. INC	2046	#10 WINDOW ENVELOPES FOR DPW MAILINGS	63-03-82000-310	76.60
Total 95221:						229.80
Grand Totals:						465,303.44

Dave Schowalter, President: _____

Jeff Nooyen, Commissioner: _____

Travis Thyssen, Commissioner: _____

Bruce Sherman, Commissioner: _____

Eric Davidson, Commissioner: _____

Angie Cain, Secretary: _____

Julie M. Wahlen, Treasurer: _____

Check Number	Check Issue Date	Payee	Invoice Number	Description	Invoice GL Account	Check Amount
95170	03/05/2020	AECOM TECHNICAL SERVICE	2000327018	PROF SVCS NON-REVENUE WATER STUDY	61-01-92300-210	2,309.19
Total 95170:						2,309.19
95181	03/05/2020	OUTAGAMIE COUNTY TREAS	1017951A	CONSTRUCTION SVCS-MCCARTHY ROAD PROJE	63-00-10700	293,212.00
95181	03/05/2020	OUTAGAMIE COUNTY TREAS	1017986	CREDIT	63-00-10700	40.14-
Total 95181:						293,171.86
95182	03/05/2020	PJK CO INC	10021902	CAPITOL DR LIFT STATION CONTROL SYSTEM UP	62-02-83400-390	7,554.44
Total 95182:						7,554.44
95184	03/05/2020	WISCONSIN COUNTY HIGHWA	030320-FT	WI FLAGGER TRAINING COURSE/TYLER MALSZYC	61-01-93000-330	95.00
95184	03/05/2020	WISCONSIN COUNTY HIGHWA	030320-FT	WI FLAGGER TRAINING COURSE/SAM FULCER	62-02-85100-330	95.00
Total 95184:						190.00
95190	03/17/2020	CITY OF APPLETON	4237	2020 MEETERING SOFTWARE ANNUAL HOSTING F	61-01-92300-290	9,390.39
95190	03/17/2020	CITY OF APPLETON	4237	2020 MEETERING SOFTWARE ANNUAL HOSTING F	62-02-85100-290	9,390.38
Total 95190:						18,780.77
95196	03/17/2020	FOX WEST REGIONAL SEWER	4270	OPERATIONS & MAINT - SEWERAGE FEB 20	62-02-82601-290	69,075.42
95196	03/17/2020	FOX WEST REGIONAL SEWER	4270	EQUIPMENT REPLACEMENT-SEWERAGE - FEB 20	62-02-40301-000	10,176.80
95196	03/17/2020	FOX WEST REGIONAL SEWER	4270	DEBT SERVICE - SEWERAGE - FEB 20	62-02-40400-000	48,510.21
95196	03/17/2020	FOX WEST REGIONAL SEWER	4270	DEPRECIATION-SEWERAGE FEB 20	62-02-40300-000	7,655.73
Total 95196:						135,418.16
95199	03/17/2020	GRAND CHUTE UTILITIES	030320-LS#3	STORM WATER - LIFT STATION #3 - 12/1/19-2/29/20	62-02-82100-220	6.74
Total 95199:						6.74
95202	03/17/2020	LEMKE LOCKWORKS	482	NEW ELECTRONIC STRIKE PLATES FOR DOORS	61-01-92300-295	76.68
95202	03/17/2020	LEMKE LOCKWORKS	482	NEW ELECTRONIC STRIKE PLATES FOR DOORS	62-02-85100-295	76.68
95202	03/17/2020	LEMKE LOCKWORKS	482	NEW ELECTRONIC STRIKE PLATES FOR DOORS	63-03-82000-295	76.68
Total 95202:						230.04
95205	03/17/2020	MCMAHON	0917548	CONSTRUCTION SVCS MISTY POND	63-00-10700	907.90
95205	03/17/2020	MCMAHON	0917549	STORM WATER QUALITY MANAGEMENT	63-03-82000-210	664.90
95205	03/17/2020	MCMAHON	0917550	WETLAND EXEMP REQUEST CLOUDVIEW POND	63-03-82000-210	333.70
Total 95205:						1,906.50
95211	03/17/2020	PRIMADATA LLC	03042020	UTILITY BILL POSTAGE	61-01-90300-311	671.97
95211	03/17/2020	PRIMADATA LLC	03042020	UTILITY BILL POSTAGE	62-02-85100-311	671.98
95211	03/17/2020	PRIMADATA LLC	03042020	UTILITY BILL POSTAGE	63-03-82000-311	335.99
Total 95211:						1,679.94
95212	03/17/2020	ROBERT J IMMEL EXC. INC	18081	REPAIR WATERMAIN AT 3100 W WISCONSIN AVE	61-01-67300-390	3,826.00
Total 95212:						3,826.00

Check Issue Date	Payee	Invoice Number	Description	Invoice GL Acct	Check Amount
61					
03/02/2020	DEPOSITORY TRUST TRANSF	030220	2012 DEBT INTEREST	61-01-43000-620	3,283.75
Total 200203002:					3,283.75
02/29/2020	US BANK CREDIT CARD	USB-Feb20-10	CC-CDW GOVT #WNG0601Large displays	61-00-39110	36.40
02/29/2020	US BANK CREDIT CARD	USB-Feb20-12	CC-CINTAS 60A SAPUNIFORMS SAN 1 DEPARTMENT	61-01-66500-291	40.12
02/29/2020	US BANK CREDIT CARD	USB-Feb20-16	CC-QGV*FOX-WOLF WATERSHED ALFOX-WOLF WATERSHED ALLIAN	61-01-93000-330	62.50
02/29/2020	US BANK CREDIT CARD	USB-Feb20-21	CC-COMPLETE OFFICE OF WISCONRETURN NOTEBOOKS	61-01-92100-310	5.26-
02/29/2020	US BANK CREDIT CARD	USB-Feb20-21	CC-DLT SOLUTIONS 703-773-Partial License for 3D Civil Software	61-01-92300-295	106.55
02/29/2020	US BANK CREDIT CARD	USB-Feb20-23	CC-CLEAN WATER TESTING LLCWATER TESTING SERVICES	61-01-67300-390	128.00
02/29/2020	US BANK CREDIT CARD	USB-Feb20-23	CC-CLEAN WATER TESTING LLCWATER TESTING SERVICES	61-01-67300-390	128.00
02/29/2020	US BANK CREDIT CARD	USB-Feb20-23	CC-CLEAN WATER TESTING LLCWATER TESTING SERVICES	61-01-67300-390	144.00
02/29/2020	US BANK CREDIT CARD	USB-Feb20-26	CC-OPC*WI RURAL WTR CONFWRWA ANNUAL TECHNICAL CONFERE	61-01-93000-330	200.00
02/29/2020	US BANK CREDIT CARD	USB-Feb20-30	CC-COMPLETE OFFICE OF WISCONNOTEBOOKS FOR PUB WORKS O	61-01-92100-310	4.51
02/29/2020	US BANK CREDIT CARD	USB-Feb20-33	CC-OPC MSC*SERVICE FEE 024SERVICE FEE FOR CREDIT CARD CH	61-01-93000-330	5.10
02/29/2020	US BANK CREDIT CARD	USB-Feb20-33	CC-FERGUSON WTRWRKS #1476REPAIR CLAMPS	61-01-67300-390	1,244.76
02/29/2020	US BANK CREDIT CARD	USB-Feb20-34	CC-COMPLETE OFFICE OF WISCONNOTEBOOKS FOR PUB WORKS O	61-01-92100-310	5.26
02/29/2020	US BANK CREDIT CARD	USB-Feb20-34	CC-FERGUSON WTRWRKS #1476PARTS FOR HYDRANT REPAIRS	61-01-67700-390	3,152.93
02/29/2020	US BANK CREDIT CARD	USB-Feb20-61	CC-FREDPRYOR CAREERTRACKMICROSOFT EXCEL SEMINAR	61-01-93000-330	19.20
02/29/2020	US BANK CREDIT CARD	USB-Feb20-65	CC-VERIZONWRLSS*RTCCR VBWater Tower Cell Bill	61-01-92100-221	19.77
02/29/2020	US BANK CREDIT CARD	USB-Feb20-73	CC-PITNEY BOWES PIQuarterly Meter Rental	61-01-92300-295	21.60
02/29/2020	US BANK CREDIT CARD	USB-Feb20-84	CC-CINTAS 60A SAPUNIFORMS SAN 1 DEPARTMENT	61-01-66500-291	26.39
02/29/2020	US BANK CREDIT CARD	USB-Feb20-85	CC-CINTAS 60A SAPUNIFORMS SAN 1 DEPARTMENT	61-01-66500-291	26.39
02/29/2020	US BANK CREDIT CARD	USB-Feb20-86	CC-CINTAS 60A SAPUNIFORMS SAN 1 DEPARTMENT	61-01-66500-291	26.39
Total 200229300:					5,392.61
Total 61:					8,676.36
62					
02/29/2020	US BANK CREDIT CARD	USB-Feb20-10	CC-BATTERIES FOR EQUIPMENT	62-02-82700-340	35.51
02/29/2020	US BANK CREDIT CARD	USB-Feb20-10	CC-CDW GOVT #WNG0601Large displays	62-00-39110	36.40
02/29/2020	US BANK CREDIT CARD	USB-Feb20-12	CC-CINTAS 60A SAPUNIFORMS SAN 2 DEPARTMENT	62-02-82700-291	40.13
02/29/2020	US BANK CREDIT CARD	USB-Feb20-16	CC-QGV*FOX-WOLF WATERSHED ALFOX-WOLF WATERSHED ALLIAN	62-02-85100-330	62.50
02/29/2020	US BANK CREDIT CARD	USB-Feb20-17	CC-FERGUSON WTRWRKS #1476FLUORESCENT GREEN MARKING P	62-02-82700-340	73.15
02/29/2020	US BANK CREDIT CARD	USB-Feb20-19	CC-HYDROCLEAN EQUIPMENT INBOOM SWIVEL FOR PRESSURE WA	62-02-82700-340	86.30
02/29/2020	US BANK CREDIT CARD	USB-Feb20-21	CC-THE HOME DEPOT #4903PARTS FOR TOWN HALL LIFT STATION R	62-02-83200-390	103.02
02/29/2020	US BANK CREDIT CARD	USB-Feb20-21	CC-DLT SOLUTIONS 703-773-Partial License for 3D Civil Software	62-02-85100-295	106.55
02/29/2020	US BANK CREDIT CARD	USB-Feb20-22	CC-COMPLETE OFFICE OF WISCONRETURN NOTEBOOKS	62-02-85100-310	5.26-
02/29/2020	US BANK CREDIT CARD	USB-Feb20-27	CC-GAN*GANNETTWIMEDIAADVADVERTISEMENT FOR BID	62-02-83100-390	209.26
02/29/2020	US BANK CREDIT CARD	USB-Feb20-29	CC-FERGUSON WTRWRKS #1476MANHOLE FRAME & LID	62-02-83402-390	334.54
02/29/2020	US BANK CREDIT CARD	USB-Feb20-30	CC-GRAINGERJETTER HOSE/NOZZLE FOR CLEANING SEWER LINES	62-02-82700-340	433.87
02/29/2020	US BANK CREDIT CARD	USB-Feb20-31	CC-COMPLETE OFFICE OF WISCONNOTEBOOKS FOR PUB WORKS O	62-02-85100-310	4.51
02/29/2020	US BANK CREDIT CARD	USB-Feb20-35	CC-COMPLETE OFFICE OF WISCONNOTEBOOKS FOR PUB WORKS O	62-02-85100-310	5.26
02/29/2020	US BANK CREDIT CARD	USB-Feb20-62	CC-FREDPRYOR CAREERTRACKMICROSOFT EXCEL SEMINAR	62-02-85100-330	19.20
02/29/2020	US BANK CREDIT CARD	USB-Feb20-66	CC-Water Tower Cell Bill	62-02-85100-221	19.77
02/29/2020	US BANK CREDIT CARD	USB-Feb20-74	CC-Quarterly Meter Rental	62-02-85100-295	21.60
02/29/2020	US BANK CREDIT CARD	USB-Feb20-87	CC-CINTAS 60A SAPUNIFORMS SAN 2 DEPARTMENTU	62-02-82700-291	26.40
02/29/2020	US BANK CREDIT CARD	USB-Feb20-88	CC-CINTAS 60A SAPUNIFORMS SAN 2 DEPARTMENT	62-02-82700-291	26.40
02/29/2020	US BANK CREDIT CARD	USB-Feb20-89	CC-CINTAS 60A SAPUNIFORMS SAN 2 DEPARTMENT	62-02-82700-291	26.40
02/29/2020	US BANK CREDIT CARD	USB-Feb20-95	CC-GRAINGERVACUUM GAUGE FOR LIFT STATION PUMP TESTING	62-02-83200-390	31.89
02/29/2020	US BANK CREDIT CARD	USB-Feb20-96	CC-GRAINGERVACUUM GAUGE FOR LIFT STATION PUMP TESTING	62-02-83200-390	31.89
Total 200229300:					1,729.29

Check Issue Date	Payee	Invoice Number	Description	Invoice GL Acct	Check Amount
Total 62:					1,729.29
63					
02/29/2020	US BANK CREDIT CARD	USB-Feb20-11	CC-CDW GOVT #WNG0601Large displays	63-00-37200	36.40
02/29/2020	US BANK CREDIT CARD	USB-Feb20-16	CC-QGV*FOX-WOLF WATERSHED ALFOX-WOLF WATERSHED ALLIAN	63-03-82000-330	62.50
02/29/2020	US BANK CREDIT CARD	USB-Feb20-21	CC-DLT SOLUTIONS 703-773-Partial License for 3D Civil Software	63-03-82000-295	106.55
02/29/2020	US BANK CREDIT CARD	USB-Feb20-23	CC-COMPLETE OFFICE OF WISCONRETURN NOTEBOOKS	63-03-82000-310	5.26-
02/29/2020	US BANK CREDIT CARD	USB-Feb20-24	CC-QGV*FOX-WOLF WATERSHED ALwatershed conference	63-03-82000-330	150.00
02/29/2020	US BANK CREDIT CARD	USB-Feb20-27	CC-QGV*FOX-WOLF WATERSHED AL2020 WATERSHED CONFERENC	63-03-82000-330	250.00
02/29/2020	US BANK CREDIT CARD	USB-Feb20-29	CC-COMPLETE OFFICE OF WISCONNOTEBOOKS FOR PUB WORKS O	63-03-82000-310	4.50
02/29/2020	US BANK CREDIT CARD	USB-Feb20-36	CC-COMPLETE OFFICE OF WISCONNOTEBOOKS FOR PUB WORKS O	63-03-82000-310	5.26
02/29/2020	US BANK CREDIT CARD	USB-Feb20-63	CC-FREDPRYOR CAREERTRACKMICROSOFT EXCEL SEMINAR	63-03-82000-330	19.20
02/29/2020	US BANK CREDIT CARD	USB-Feb20-75	CC-Quarterly Meter Rental	63-03-82000-295	21.60
Total 200229300:					650.75
03/03/2020	PSN	211163	FEB BILLING	63-03-82000-290	49.95
Total 200303002:					49.95
Total 63:					700.70
Grand Totals:					11,106.35

Angie Cain, Secretary: Angie Cain Date: 3/12/2020

TOWN OF GRAND CHUTE
SANITARY DISTRICT #1
2020 BUDGET STATEMENT
JANUARY 2020

	2020 BUDGET	CURRENT MONTH	2020 YTD	% BUDGET	REMAINING BUDGET
EXPENSES					
PERSONNEL	663,000	24,980	24,980	4%	638,020
OPERATIONS AND MAINTENANCE	5,633,025	34,761	34,761	1%	5,598,264
Subtotal-Operating Expense	6,296,025	59,741	59,741	1%	6,236,284
DEBT SERVICE	350,000	-	-	0%	350,000
CAPITAL IMPROVEMENTS	1,779,876	27,653	27,653	2%	1,752,223
Subtotal-Capital Expenses	2,129,876	27,653	27,653	1%	2,102,223
TOTAL EXPENSE	**8,425,901**	**87,393**	**87,393**	**1%**	**8,338,508**
REVENUES					
Operating Revenues	6,458,377	(169,648)	(169,648)	-3%	6,628,025
Capital Revenues	107,500	-	-	0%	107,500
TOTAL REVENUES	**6,565,877**	**(169,648)**	**(169,648)**	**-3%**	**6,735,525**
Operating Net Income	162,352		(229,389)		

TOWN OF GRAND CHUTE
SANITARY DISTRICT #2
2020 BUDGET STATEMENT
JANUARY 2020

	2020 BUDGET	CURRENT MONTH	2020 YTD	% BUDGET	REMAINING BUDGET
EXPENSES					
PERSONNEL	455,790	20,455	20,455	4%	435,335
OPERATIONS AND MAINTENANCE	2,735,153	29,378	29,378	1%	2,705,775
Subtotal-Operating Expense	3,190,943	49,832	49,832	2%	3,141,111
DEBT SERVICE	90,000	-	-	0%	90,000
CAPITAL IMPROVEMENTS	241,626	16,197	16,197	7%	225,430
Subtotal-Capital Expenses	331,626	16,197	16,197	5%	315,430
TOTAL EXPENSE	**3,522,569**	**66,029**	**66,029**	**2%**	**3,456,540**
REVENUES					
Operating Revenues	3,385,500	(207,296)	(207,296)	-6%	3,592,796
Capital Revenues	104,250	-	-	0%	104,250
TOTAL REVENUES	**3,489,750**	**(207,296)**	**(207,296)**	**-6%**	**3,697,046**
Operating Net Income	194,557		(257,129)		

TOWN OF GRAND CHUTE
SANITARY DISTRICT #3
2020 BUDGET STATEMENT
JANUARY 2020

	2020 BUDGET	CURRENT MONTH	2020 YTD	% BUDGET	REMAINING BUDGET
EXPENSES					
PERSONNEL	381,520	15,069	15,069	4%	366,451
OPERATIONS AND MAINTENANCE	1,200,704	15,018	15,018	1%	1,185,686
Subtotal-Operating Expense	1,582,224	30,087	30,087	2%	1,552,137
DEBT SERVICE	405,000	-	-	0%	405,000
CAPITAL IMPROVEMENTS	1,304,476	152,056	152,056	12%	1,152,420
Subtotal-Capital Expenses	1,709,476	152,056	152,056	9%	1,557,420
TOTAL EXPENSE	**3,291,700**	**182,143**	**182,143**	**6%**	**3,109,557**
REVENUES					
Operating Revenues	3,210,500	(250,192)	(250,192)	-8%	3,460,692
Capital Revenues	152,250	-	-	0%	152,250
TOTAL REVENUES	**3,362,750**	**(250,192)**	**(250,192)**	**-7%**	**3,612,942**
Operating Net Income	1,628,276		(280,278)		

TOWN OF GRAND CHUTE
EAST SIDE UTILITY DISTRICT
2020 BUDGET STATEMENT
JANUARY 2020

	2020 BUDGET	CURRENT MONTH	2020 YTD	% BUDGET	REMAINING BUDGET
EXPENSES					
PERSONNEL	10,300	-	-	0%	10,300
OPERATIONS AND MAINTENANCE	29,140	-	-	0%	29,140
Subtotal-Operating Expense	39,440	-	0	0%	39,440
CAPITAL IMPROVEMENTS	-	-	-	0%	-
Subtotal-Capital Expenses	-	-	-	0%	0
TOTAL EXPENSE	**39,440**	**-**	**-**	**0%**	**39,440**
REVENUES					
Operating Revenues	43,771	1,148	1,148	3%	42,623
TOTAL REVENUES	**43,771**	**1,148**	**1,148**	**3%**	**42,623**
Operating Net Income	4,331	1,148	1,148		

TOWN OF GRAND CHUTE
SANITARY DISTRICT #1
2020 BUDGET STATEMENT
FEBRUARY 2020

	2020 BUDGET	CURRENT MONTH	2020 YTD	% BUDGET	REMAINING BUDGET
EXPENSES					
PERSONNEL	663,000	39,381	64,361	10%	598,639
OPERATIONS AND MAINTENANCE	5,633,025	(214,461)	(179,700)	-3%	5,812,725
Subtotal-Operating Expense	6,296,025	(175,080)	(115,340)	-2%	6,411,365
DEBT SERVICE	350,000	40,000	40,000	11%	310,000
CAPITAL IMPROVEMENTS	1,779,876	36	27,689	2%	1,752,187
Subtotal-Capital Expenses	2,129,876	40,036	67,689	3%	2,062,187
TOTAL EXPENSE	**8,425,901**	**(135,044)**	**(47,651)**	**-1%**	**8,473,552**
REVENUES					
Operating Revenues	6,458,377	966,847	797,199	12%	5,661,178
Capital Revenues	107,500	-	-	0%	107,500
TOTAL REVENUES	**6,565,877**	**966,847**	**797,199**	**12%**	**5,768,678**
Operating Net Income	162,352		912,539		

TOWN OF GRAND CHUTE
SANITARY DISTRICT #2
2020 BUDGET STATEMENT
FEBRUARY 2020

	2020 BUDGET	CURRENT MONTH	2020 YTD	% BUDGET	REMAINING BUDGET
EXPENSES					
PERSONNEL	455,790	28,444	48,898	11%	406,892
OPERATIONS AND MAINTENANCE	2,735,153	14,115	43,493	2%	2,691,660
Subtotal-Operating Expense	3,190,943	42,558	92,391	3%	3,098,552
DEBT SERVICE	90,000	-	-	0%	90,000
CAPITAL IMPROVEMENTS	241,626	36	16,233	7%	225,393
Subtotal-Capital Expenses	331,626	36	16,233	5%	315,393
TOTAL EXPENSE	**3,522,569**	**42,595**	**108,624**	**3%**	**3,413,945**
REVENUES					
Operating Revenues	3,385,500	474,644	267,348	8%	3,118,152
Capital Revenues	104,250	-	-	0%	104,250
TOTAL REVENUES	**3,489,750**	**474,644**	**267,348**	**8%**	**3,222,402**
Operating Net Income	194,557		174,957		

TOWN OF GRAND CHUTE
SANITARY DISTRICT #3
2020 BUDGET STATEMENT
FEBRUARY 2020

	2020 BUDGET	CURRENT MONTH	2020 YTD	% BUDGET	REMAINING BUDGET
EXPENSES					
PERSONNEL	381,520	23,218	38,287	10%	343,233
OPERATIONS AND MAINTENANCE	1,200,704	11,401	26,419	2%	1,174,285
Subtotal-Operating Expense	1,582,224	34,620	64,706	4%	1,517,518
DEBT SERVICE	405,000	95,000	95,000	23%	310,000
CAPITAL IMPROVEMENTS	1,304,476	6,037	158,094	12%	1,146,382
Subtotal-Capital Expenses	1,709,476	101,037	253,094	15%	1,456,382
TOTAL EXPENSE	**3,291,700**	**135,657**	**317,800**	**10%**	**2,973,900**
REVENUES					
Operating Revenues	3,210,500	521,425	271,234	8%	2,939,266
Capital Revenues	152,250	-	-	0%	152,250
TOTAL REVENUES	**3,362,750**	**521,425**	**271,234**	**8%**	**3,091,516**
Operating Net Income	1,628,276		206,527		

TOWN OF GRAND CHUTE
EAST SIDE UTILITY DISTRICT
2020 BUDGET STATEMENT
FEBRUARY 2020

	2020 BUDGET	CURRENT MONTH	2020 YTD	% BUDGET	REMAINING BUDGET
EXPENSES					
PERSONNEL	10,300	-	-	0%	10,300
OPERATIONS AND MAINTENANCE	29,140	(1,358)	(1,358)	-5%	30,498
Subtotal-Operating Expense	39,440	(1,358)	(1,358)	-3%	40,798
CAPITAL IMPROVEMENTS	-	-	-	0%	-
Subtotal-Capital Expenses	-	-	-	0%	0
TOTAL EXPENSE	**39,440**	**(1,358)**	**(1,358)**	**-3%**	**40,798**
REVENUES					
Operating Revenues	43,771	17,081	18,228	42%	25,543
TOTAL REVENUES	**43,771**	**17,081**	**18,228**	**42%**	**25,543**
Operating Net Income	4,331	18,439	19,587		

Grand Chute

AGENDA REQUEST
3/17/2020

TOPIC: Award of bid, Contract 2020-11, 2020 Water Main Projects, to PTS Contractors, Inc. in the amount of $1,153,246.00.

☒ New Business ☐ Unfinished Business ☐ Reports ☐ Closed Session ☐ Ordinance/Resolution	Meeting: Sanitary District 1
Department Reporting: Public Works	Submitted By: Karen M. Heyrman, P.E. KMH Deputy Director of Public Works

ISSUE: Water main breaks have occurred on S Nicolet Road between W Spencer Street and W Pine Street. The section north of W Spencer Street was constructed in 1975 and the section south of W Spencer Street was constructed in 1980. Replacing this watermain and adding a watermain loop on W Glendale Avenue between Michelle Court and N Perkins Street will improve system reliability.

BACKGROUND/ANALYSIS: The Town of Grand Chute Department of Public Works received bids for Project 2020-11, Grand Chute 2020 Water Main Projects on February 25, 2020. The nine bids received are as follows:

Bidder	Base Bid Amount	Alternate Bid Amount
PTS Contractors, Inc.	$1,088,114.00	$65,132.00
Dorner, Inc.	$1,128,098.00	$36,669.00
Kruczek Construction, Inc.	$1,184,488.50	$67,967.00
Soper Grading & Excavating, LLC	$1,204,441.25	$122,280.00
Superior Sewer & Water, Inc.	$1,355,763.50	$44,751.00
Carl Bowers & Sons Construction Co.	$1,338,366.50	$91,325.00
Robert J. Immel Excavating, Inc.	$1,439,917.80	$87,360.00
Advance Construction, Inc.	$1,487,639.60	$75,524.50
De Groot, Inc.	$1,541,349.14	$56,115.40

RECOMMENDATION: The estimate for this project is $1,153,977. Staff concurs with the Engineer's recommendation to award the bid to PTS Contractors, Inc. in the amount of $1,153,246.00 and grant the Public Works Department the authority to issue the Notice to Proceed once the contracts are approved.

The base bid plus alternate bid is subject to reduction of total based upon actual units utilized in the work. The Contract Price will be adjusted by change order (s) based on actual "Units" utilized for the work. The Work Change Directive that will be issued by the Engineer estimates a decrease for reduced units of $73,653.60.

FISCAL IMPACT: CIP

ATTACHMENTS:

Attachment No. 1 – 2020-11 McMahon Letter of Recommendation
Attachment No. 2 – 2020-11 Notice of Award
Attachment No. 3 – 2020-11 Bid Tabulation
Attachment No. 4 – 2020 –11 Base Bid and Alternate Bid Estimate
Attachment No. 4 – 2020-11 Work Change Directive No. 01

McMAHON
ENGINEERS ARCHITECTS

February 26, 2020

Grand Chute Sanitary District #1
Attn: Katie Schwartz, P.E., Director of Public Works
1900 W. Grand Chute Boulevard
Grand Chute, WI 54913

Re: Grand Chute Sanitary District #1
2020 Water Main Construction
Contract No. 2020-11
Letter Of Recommendation
McM. No. G0007-9-19-00559

On Tuesday, February 25, 2020, bids were received at the Town of Grand Chute Town Hall for the above referenced project. Nine (9) bids were received, ranging in price from $1,153,246.00 to $1,597,464.54 (bid tabulation enclosed).

Based upon the bids received, we recommend awarding Contract G0007-9-19-00559 to the low bidder, PTS Contractors, Inc. The base bid price is $1,088,114.00 and the alternate bid price is $65,132.00. Combined, these make the Contract price $1,153,246.00.

If you agree with our recommendation, please date and sign the enclosed Notices of Award, and return all copies to our office for incorporation into the contract documents.

If you have any questions, please feel free to contact me.

Respectfully,

McMahon Associates, Inc.

Mick Magalski / jlh

Mick Magalski,
Associate / Municipal & Transportation Project Manager

PMM:jlh

Enclosures: Notice of Awards (3 copies each)
Bid Tabulation

SECTION 00 51 00.00

NOTICE OF AWARD

Dated: _____

To: PTS CONTRACTORS, INC.
4075 Eaton Road
Green Bay, WI 54311

Contract No. 2020-11 | McM. No. G0007-9-19-00559

Project: 2020 WATER MAIN CONSTRUCTION
For
GRAND CHUTE SANITARY DISTRICT #1
Outagamie County, Wisconsin

You are notified that your Bid, dated Tuesday, February 25, 2020, for the above Contract has been considered. You are the apparent successful Bidder and have been awarded a Contract for 2020 Water Main Construction for Grand Chute Sanitary District #1, Outagamie County, Wisconsin.

The Contract Price of your Contract is One Million One Hundred Fifty Three Thousand Two Hundred Forty Six and 00/100 Dollars ($1,153,246.00). This is the Base Bid price plus the Alternate Bid price. This Contract Price will be adjusted by change order(s) based upon actual "Units" utilized for the work. You must comply with the following conditions precedent within **15-days** of the date of this Notice of Award, that is by _____.

1. You must deliver to the OWNER three (3) fully executed counterparts of the Agreement including all the Contract Documents.
2. You must deliver with the executed Agreement the Contract Security (bonds), as specified in the Instructions to Bidders, General Conditions (Paragraph 5.1) and Supplementary Conditions.
3. You must deliver Insurance Certification complying with the General Conditions and Supplemental Conditions of the Contract Documents.

Failure to comply with these conditions within the time specified will entitle OWNER to consider your Bid abandoned, to annul this Notice of Award and to declare your Bid Security forfeited.

One (1) fully signed counterpart of the Agreement, with the Contract Documents attached, will be returned to you within 15-days after you comply with the above noted conditions.

GRAND CHUTE SANITARY DISTRICT #1 | Outagamie County, Wisconsin

_____
(authorized signature)

_____
(title)

Witness:_____

BID TABULATION

Owner: GRAND CHUTE SANITARY DISTRICT #1
Project Name: 2020 Water Main Projects
Contract No. 2020-11 | G0007-9-19-00559
Bid Date: Tuesday, February 25, 2020
Bid Time: 2:00 pm, local time
Project Manager: Mick Magalski

Engineer: McMAHON ASSOCIATES, INC.
1445 McMahon Drive
P.O. Box 1025
Neenah, WI 54956 / 54957-1025

Engineer: McMAHON ASSOCIATES, INC.
1445 McMahon Drive
P.O. Box 1025
Neenah, WI 54956 / 54957-1025

NICOLET ROAD

Item	Qty	Unit	Description	PTS CONTRACTORS, INC. 4075 Eaton Road Green Bay, WI 54311		DORNER, INC. E506 Luxemburg Road PO Box 129 Luxemburg, WI 54217		KRUCZEK CONSTRUCTION, INC. 3636 Kewaunee Road Green Bay, WI 54311		SOPER GRADING & EXCAVATING, LLC 139 E. Packers Avenue Oshkosh, WI 54901		SUPERIOR SERWER & WATER, INC. 1801 Deer Trail Luxemburg, WI 54217		CARL BOWERS & SONS CONST. CO. N1844 Maloney Road Kaukauna, WI 54130		ROBERT J. IMMEL EXCAVATING, INC. N1870 Municipal Drive PO Box 135 Greenville, WI 54942		ADVANCE CONSTRUCTION, INC. 2141 Woodale Avenue Green Bay, WI 54313		DE GROOT, INC. 4201 Champion Road Green Bay, WI 54311	
				Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
1	104	LF	8 Inch Water Main	$119.00	$12,376.00	$127.00	$13,208.00	$112.00	$11,648.00	$200.00	$20,800.00	$114.00	$11,856.00	$184.00	$19,136.00	$155.00	$16,120.00	$254.00	$26,416.00	$110.81	$11,524.24
2	4,080	LF	12 Inch Water Main	$79.00	$322,320.00	$75.00	$306,000.00	$75.00	$306,000.00	$80.00	$326,400.00	$124.00	$505,920.00	$102.50	$418,200.00	$106.00	$432,480.00	$136.00	$554,880.00	$130.74	$533,419.20
3	115	LF	Bore & Case 12 Inch Water Main (With Spacers for 12 Inch Water Main)	$470.00	$54,050.00	$441.00	$50,715.00	$435.00	$50,025.00	$550.00	$63,250.00	$485.00	$55,775.00	$700.00	$80,500.00	$550.00	$63,250.00	$550.00	$63,250.00	$722.94	$83,138.10
4	1	EA	16" x 12" Tapping Valve & Sleeve	$6,750.00	$6,750.00	$7,086.00	$7,086.00	$6,800.00	$6,800.00	$8,440.00	$8,440.00	$8,700.00	$8,700.00	$8,000.00	$8,000.00	$7,335.00	$7,335.00	$8,462.00	$8,462.00	$11,813.70	$11,813.70
5	10	EA	12 Inch Valve	$2,700.00	$27,000.00	$2,900.00	$29,000.00	$3,000.00	$30,000.00	$2,360.00	$23,600.00	$2,650.00	$26,500.00	$3,100.00	$31,000.00	$3,150.00	$31,500.00	$2,670.00	$26,700.00	$3,372.29	$33,722.90
6	4	EA	8 Inch Valve	$1,600.00	$6,400.00	$1,730.00	$6,920.00	$1,800.00	$7,200.00	$1,470.00	$5,880.00	$1,550.00	$6,200.00	$1,800.00	$7,200.00	$2,080.00	$8,320.00	$1,571.00	$6,284.00	$2,194.69	$8,778.76
7	15	EA	6 Inch Valve	$1,165.00	$17,475.00	$1,258.00	$18,870.00	$1,285.00	$19,275.00	$1,100.00	$16,500.00	$1,080.00	$16,200.00	$1,400.00	$21,000.00	$1,600.00	$24,000.00	$1,147.00	$17,205.00	$1,685.97	$25,289.55
8	2	EA	Replace Tee Bolts	$2,900.00	$5,800.00	$1,000.00	$2,000.00	$2,000.00	$4,000.00	$3,250.00	$6,500.00	$2,000.00	$4,000.00	$3,000.00	$6,000.00	$2,375.00	$4,750.00	$2,000.00	$4,000.00	$3,570.32	$7,140.64
9	4	EA	Replace Valve Bolts	$2,900.00	$11,600.00	$1,000.00	$4,000.00	$2,000.00	$8,000.00	$3,250.00	$13,000.00	$2,400.00	$9,600.00	$3,000.00	$12,000.00	$1,800.00	$7,200.00	$2,000.00	$8,000.00	$4,176.76	$16,707.04
10	10	EA	Hydrant with Auxiliary Valve	$5,200.00	$52,000.00	$5,563.00	$55,630.00	$5,800.00	$58,000.00	$4,690.00	$46,900.00	$4,650.00	$46,500.00	$6,000.00	$60,000.00	$5,980.00	$59,800.00	$5,560.00	$55,600.00	$6,228.00	$62,280.00
11	206	LF	6 Inch Hydrant Lead	$68.00	$14,008.00	$65.00	$13,390.00	$65.00	$13,390.00	$120.00	$24,720.00	$55.00	$11,330.00	$90.00	$18,540.00	$100.00	$20,600.00	$117.00	$24,102.00	$74.82	$15,412.92
12	513	LF	6 Inch Water Service	$74.00	$37,962.00	$74.00	$37,962.00	$81.00	$41,553.00	$90.00	$46,170.00	$66.00	$33,858.00	$97.00	$49,761.00	$145.00	$74,385.00	$134.00	$68,742.00	$114.72	$58,851.36
13	572	LF	1 Inch Water Service	$54.00	$30,888.00	$65.00	$37,180.00	$55.00	$31,460.00	$90.00	$51,480.00	$35.00	$20,020.00	$93.00	$53,196.00	$92.00	$52,624.00	$100.00	$57,200.00	$77.15	$44,129.80
14	25	LF	1 ½ Inch Water Service	$57.00	$1,425.00	$65.00	$1,625.00	$69.00	$1,725.00	$110.00	$2,750.00	$36.00	$900.00	$94.00	$2,350.00	$125.00	$3,125.00	$100.00	$2,500.00	$72.64	$1,816.00
15	52	LF	2 Inch Water Service	$82.00	$4,264.00	$66.00	$3,432.00	$69.00	$3,588.00	$145.00	$7,540.00	$37.00	$1,924.00	$95.00	$4,940.00	$143.50	$7,462.00	$111.00	$5,772.00	$73.31	$3,812.12
16	17	EA	1 Inch Corporation Stop, Curb Stop, & Stop Box	$470.00	$7,990.00	$711.00	$12,087.00	$525.00	$8,925.00	$400.00	$6,800.00	$380.00	$6,460.00	$700.00	$11,900.00	$900.00	$15,300.00	$824.00	$14,008.00	$1,156.16	$19,654.72
17	1	EA	1 ½ Inch Corporation Stop, Curb Stop, & Stop Box	$756.00	$756.00	$1,016.00	$1,016.00	$875.00	$875.00	$560.00	$560.00	$660.00	$660.00	$1,050.00	$1,050.00	$1,185.00	$1,185.00	$1,106.00	$1,106.00	$1,517.88	$1,517.88
18	3	EA	2 Inch Corporation Stop, Curb Stop, & Stop Box	$980.00	$2,940.00	$1,257.00	$3,771.00	$1,100.00	$3,300.00	$1,200.00	$3,600.00	$905.00	$2,715.00	$1,300.00	$3,900.00	$1,410.00	$4,230.00	$1,429.00	$4,287.00	$1,826.79	$5,480.37
19	17	EA	Reconnect 1 Inch Water Service	$318.00	$5,406.00	$270.00	$4,590.00	$425.00	$7,225.00	$255.00	$4,335.00	$1,000.00	$17,000.00	$600.00	$10,200.00	$670.00	$11,390.00	$127.00	$2,159.00	$1,227.96	$20,875.32
20	1	EA	Reconnect 1 ½ Inch Water Service	$375.00	$375.00	$332.00	$332.00	$425.00	$425.00	$305.00	$305.00	$1,000.00	$1,000.00	$1,000.00	$1,000.00	$735.00	$735.00	$185.00	$185.00	$944.03	$944.03
21	3	EA	Reconnect 2 Inch Water Service	$400.00	$1,200.00	$361.00	$1,083.00	$475.00	$1,425.00	$800.00	$2,400.00	$1,000.00	$3,000.00	$1,100.00	$3,300.00	$780.00	$2,340.00	$262.00	$786.00	$1,297.89	$3,893.67
22	15	EA	Reconnect 6 Inch Water Service	$1,050.00	$15,750.00	$918.00	$13,770.00	$600.00	$9,000.00	$1,200.00	$18,000.00	$2,800.00	$42,000.00	$1,500.00	$22,500.00	$1,860.00	$27,900.00	$2,227.00	$33,405.00	$3,228.08	$48,421.20
23	1	LS	Abandon Existing Water Main, Hydrant Leads, & Services (All Sizes, Estimated at 4,100 Linear Feet)	$14,400.00	$14,400.00	$5,197.00	$5,197.00	$8,000.00	$8,000.00	$2,500.00	$2,500.00	$13,066.00	$13,066.00	$16,000.00	$16,000.00	$11,200.00	$11,200.00	$28,700.00	$28,700.00	$22,220.00	$22,220.00
24	23	EA	Abandon Water Valve (All Sizes)	$116.00	$2,668.00	$254.00	$5,842.00	$350.00	$8,050.00	$150.00	$3,450.00	$300.00	$6,900.00	$500.00	$11,500.00	$335.00	$7,705.00	$250.00	$5,750.00	$126.25	$2,903.75
25	50	LF	Remove Existing Water Main (All Sizes)	$58.00	$2,900.00	$14.00	$700.00	$50.00	$2,500.00	$22.00	$1,100.00	$50.00	$2,500.00	$40.00	$2,000.00	$35.00	$1,750.00	$25.00	$1,250.00	$10.10	$505.00
26	8	EA	Remove Hydrant & Auxiliary Valve	$405.00	$3,240.00	$500.00	$4,000.00	$500.00	$4,000.00	$650.00	$5,200.00	$500.00	$4,000.00	$800.00	$6,400.00	$1,150.00	$9,200.00	$600.00	$4,800.00	$959.50	$7,676.00
27	2	EA	Remove Valve (All Sizes)	$405.00	$810.00	$600.00	$1,200.00	$500.00	$1,000.00	$600.00	$1,200.00	$500.00	$1,000.00	$500.00	$1,000.00	$850.00	$1,700.00	$600.00	$1,200.00	$858.50	$1,717.00
28	2,200	TON	Special Backfill	$11.66	$25,652.00	$20.00	$44,000.00	$16.00	$35,200.00	$12.50	$27,500.00	$16.00	$35,200.00	$15.00	$33,000.00	$21.25	$46,750.00	$0.01	$22.00	$15.15	$33,330.00
29	706	LF	Sawing Concrete	$3.00	$2,118.00	$3.00	$2,118.00	$4.00	$2,824.00	$5.50	$3,883.00	$3.00	$2,118.00	$5.00	$3,530.00	$5.00	$3,530.00	$2.25	$1,588.50	$6.06	$4,278.36
30	4,803	LF	Sawing Asphalt	$1.60	$7,684.80	$2.00	$9,606.00	$2.00	$9,606.00	$5.00	$24,015.00	$3.00	$14,409.00	$2.00	$9,606.00	$3.25	$15,609.75	$2.00	$9,606.00	$1.52	$7,300.56
31	8,568	SY	Remove Asphalt Pavement	$2.50	$21,420.00	$3.00	$25,704.00	$1.00	$8,568.00	$1.00	$8,568.00	$4.00	$34,272.00	$1.00	$8,568.00	$4.00	$34,272.00	$5.00	$42,840.00	$2.19	$18,763.92
32	1,800	TON	HMA Pavement 3MT 58-28 S (Lower Layer)	$71.50	$128,700.00	$77.00	$138,600.00	$75.00	$135,000.00	$68.60	$123,480.00	$72.00	$129,600.00	$72.00	$129,600.00	$78.00	$140,400.00	$69.60	$125,280.00	$77.09	$138,762.00
33	1,030	TON	HMA Pavement 4MT 58-28 S (Upper Layer)	$70.60	$72,718.00	$65.00	$66,950.00	$70.00	$72,100.00	$68.60	$70,658.00	$72.00	$74,160.00	$72.00	$74,160.00	$65.00	$66,950.00	$68.60	$70,658.00	$76.21	$78,496.30
34	2,550	TON	Base Aggregate Dense 1 ¼ Inch	$11.60	$29,580.00	$20.00	$51,000.00	$48.00	$122,400.00	$14.50	$36,975.00	$16.00	$40,800.00	$15.00	$38,250.00	$15.50	$39,525.00	$12.80	$32,640.00	$16.16	$41,208.00
35	10	TON	Base Aggregate Dense ¾ Inch (Gravel Shoulder Replacement)	$40.00	$400.00	$40.00	$400.00	$100.00	$1,000.00	$80.00	$800.00	$50.00	$500.00	$14.00	$140.00	$40.00	$400.00	$15.30	$153.00	$25.25	$252.50
36	622	LF	Remove & Replace Curb & Gutter 30 Inch	$40.60	$25,253.20	$37.00	$23,014.00	$40.00	$24,880.00	$36.50	$22,703.00	$16.00	$9,952.00	$42.00	$26,124.00	$48.50	$30,167.00	$39.00	$24,258.00	$43.94	$27,330.68
37	5	LF	Remove & Replace Curb & Gutter 24 Inch	$41.00	$205.00	$37.00	$185.00	$40.00	$200.00	$50.00	$250.00	$16.00	$80.00	$42.00	$210.00	$48.00	$240.00	$45.00	$225.00	$43.94	$219.70
38	1,050	SF	Remove & Replace Concrete Driveway 6 Inch	$7.30	$7,665.00	$7.00	$7,350.00	$7.50	$7,875.00	$7.25	$7,612.50	$8.00	$8,400.00	$8.30	$8,715.00	$8.25	$8,662.50	$6.85	$7,192.50	$8.97	$9,418.50
39	1,060	SF	Remove & Replace Concrete Sidewalk 4 Inch	$6.80	$7,208.00	$6.00	$6,360.00	$8.00	$8,480.00	$6.75	$7,155.00	$7.50	$7,950.00	$7.20	$7,632.00	$7.75	$8,215.00	$6.30	$6,678.00	$8.41	$8,914.60
40	1,625	SF	Remove & Replace Concrete Sidewalk 6 Inch	$7.30	$11,862.50	$7.00	$11,375.00	$8.00	$13,000.00	$7.25	$11,781.25	$8.50	$13,812.50	$8.30	$13,487.50	$8.25	$13,406.25	$6.85	$11,131.25	$8.97	$14,576.25
41	250	EA	Drilled Tie-Bars	$7.20	$1,800.00	$7.00	$1,750.00	$7.50	$1,875.00	$7.00	$1,750.00	$10.00	$2,500.00	$7.60	$1,900.00	$8.00	$2,000.00	$7.00	$1,750.00	$7.78	$1,945.00
42	25	TON	Temporary Pedestrian Asphaltic Surface	$136.00	$3,400.00	$135.00	$3,375.00	$195.00	$4,875.00	$150.00	$3,750.00	$200.00	$5,000.00	$200.00	$5,000.00	$175.00	$4,375.00	$190.00	$4,750.00	$211.09	$5,277.25
43	1	EA	Remove Existing Mailboxes & Posts, Install Temporary Mailboxes	$1,740.00	$1,740.00	$3,845.00	$3,845.00	$2,000.00	$2,000.00	$5,000.00	$5,000.00	$250.00	$250.00	$400.00	$400.00	$5,500.00	$5,500.00	$50.00	$50.00	$2,525.00	$2,525.00
44	33	SF	Detectable Warning Fields	$34.00	$1,122.00	$35.00	$1,155.00	$35.00	$1,155.00	$35.00	$1,155.00	$49.00	$1,617.00	$40.00	$1,320.00	$40.00	$1,320.00	$33.00	$1,089.00	$36.66	$1,209.78
45	810	SY	Restoration	$10.20	$8,262.00	$10.00	$8,100.00	$8.00	$6,480.00	$5.50	$4,455.00	$17.00	$13,770.00	$15.00	$12,150.00	$7.50	$6,075.00	$9.50	$7,695.00	$11.06	$8,958.60
46	36	EA	Inlet Protection	$87.00	$3,132.00	$120.00	$4,320.00	$100.00	$3,600.00	$50.00	$1,800.00	$100.00	$3,600.00	$100.00	$3,600.00	$125.00	$4,500.00	$85.00	$3,060.00	$151.50	$5,454.00
47	1	LS	Traffic Control	$3,085.00	$3,085.00	$7,918.00	$7,918.00	$10,500.00	$10,500.00	$20,000.00	$20,000.00	$8,500.00	$8,500.00	$3,000.00	$3,000.00	$22,500.00	$22,500.00	$30,000.00	$30,000.00	$8,332.50	$8,332.50
48	1	LS	Traffic Control Detour	$1,030.00	$1,030.00	$1,900.00	$1,900.00	$2,500.00	$2,500.00	$2,000.00	$2,000.00	$2,200.00	$2,200.00	$1,000.00	$1,000.00	$2,500.00	$2,500.00	$1,000.00	$1,000.00	$1,999.80	$1,999.80
49	120	SY	Emat Class I Type B	$3.00	$360.00	$6.00	$720.00	$4.25	$510.00	$3.00	$360.00	$4.50	$540.00	$4.00	$480.00	$3.50	$420.00	$3.00	$360.00	$3.33	$399.60
50	75	LF	Silt Fence	$6.00	$450.00	$10.00	$750.00	$2.00	$150.00	$3.00	$225.00	$5.00	$375.00	$3.00	$225.00	$3.50	$262.50	$3.00	$225.00	$5.05	$378.75
51	20	EA	Erosion Bales	$20.00	$400.00	$18.00	$360.00	$20.00	$400.00	$10.00	$200.00	$20.00	$400.00	$50.00	$1,000.00	$75.00	$1,500.00	$12.00	$240.00	$15.15	$303.00
52	250	LF	Marking Epoxy 4 Inch (White)	$1.00	$250.00	$1.00	$250.00	$1.00	$250.00	$1.25	$312.50	$1.00	$250.00	$1.00	$250.00	$1.05	$262.50	$0.95	$237.50	$1.06	$265.00
53	3,426	LF	Marking Epoxy 4 Inch (Yellow)	$1.00	$3,426.00	$1.00	$3,426.00	$1.00	$3,426.00	$1.25	$4,282.50	$1.00	$3,426.00	$1.00	$3,426.00	$1.05	$3,597.30	$0.95	$3,254.70	$1.06	$3,631.56
54	205	LF	Marking Epoxy 6 Inch Crosswalk	$10.30	$2,111.50	$11.00	$2,255.00	$10.50	$2,152.50	$9.50	$1,947.50	$13.00	$2,665.00	$10.00	$2,050.00	$11.00	$2,255.00	$10.00	$2,050.00	$11.11	$2,277.55
55	340	LF	Marking Epoxy 8 Inch (White)	$2.00	$680.00	$2.00	$680.00	$2.00	$680.00	$1.75	$595.00	$2.00	$680.00	$2.00	$680.00	$2.10	$714.00	$1.90	$646.00	$2.11	$717.40
56	120	LF	Marking 18 Inch Epoxy Stop Line	$13.40	$1,608.00	$14.00	$1,680.00	$13.50	$1,620.00	$16.25	$1,950.00	$16.00	$1,920.00	$14.00	$1,680.00	$15.00	$1,800.00	$13.00	$1,560.00	$14.44	$1,732.80
57	2	EA	Marking Arrow Type I, Epoxy	$155.00	$310.00	$158.00	$316.00	$155.00	$310.00	$210.00	$420.00	$168.00	$336.00	$165.00	$330.00	$175.00	$350.00	$150.00	$300.00	$166.65	$333.30
58	6	EA	Marking Arrow Type II, Epoxy	$258.00	$1,548.00	$264.00	$1,584.00	$255.00	$1,530.00	$275.00	$1,650.00	$272.00	$1,632.00	$275.00	$1,650.00	$275.00	$1,650.00	$250.00	$1,500.00	$277.75	$1,666.50
59	6	EA	Marking Arrow Type III, Epoxy	$283.00	$1,698.00	$290.00	$1,740.00	$290.00	$1,740.00	$450.00	$2,700.00	$300.00	$1,800.00	$300.00	$1,800.00	$325.00	$1,950.00	$275.00	$1,650.00	$305.53	$1,833.18
			NICLOET ROAD TOTAL (Items 1 through 59, Inclusive)		**$1,039,632.00**		**$1,073,392.00**		**$1,134,275.50**		**$1,113,313.25**		**$1,282,298.50**		**$1,277,536.50**		**$1,379,244.80**		**$1,420,438.45**		**$1,485,737.21**

BID TABULATION

Owner:	GRAND CHUTE SANITARY DISTRICT #1
Project Name:	2020 Water Main Projects
Contract No.	2020-11 | G0007-9-19-00559
Bid Date:	Tuesday, February 25, 2020
Bid Time:	2:00 pm, local time
Project Manager:	Mick Magalski

Engineer: McMAHON ASSOCIATES, INC.
1445 McMahon Drive
P.O. Box 1025
Neenah, WI 54956 / 54957-1025

Engineer: McMAHON ASSOCIATES, INC.
1445 McMahon Drive
P.O. Box 1025
Neenah, WI 54956 / 54957-1025

GLENDALE AVENUE

Item	Qty	Unit	Description	PTS CONTRACTORS, INC. 4075 Eaton Road Green Bay, WI 54311		DORNER, INC. E506 Luxemburg Road PO Box 129 Luxemburg, WI 54217		KRUCZEK CONSTRUCTION, INC. 3636 Kewaunee Road Green Bay, WI 54311		SOPER GRADING & EXCAVATING, LLC 139 E. Packers Avenue Oshkosh, WI 54901		SUPERIOR SERWER & WATER, INC. 1801 Deer Trail Luxemburg, WI 54217		CARL BOWERS & SONS CONST. CO. N1844 Maloney Road Kaukauna, WI 54130		ROBERT J. IMMEL EXCAVATING, INC. N1870 Municipal Drive PO Box 135 Greenville, WI 54942		ADVANCE CONSTRUCTION, INC. 2141 Woodale Avenue Green Bay, WI 54313		DE GROOT, INC. 4201 Champion Road Green Bay, WI 54311	
				Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
60	351	LF	8 Inch Water Main	$58.00	$20,358.00	$65.00	$22,815.00	$52.00	$18,252.00	$140.00	$49,140.00	$109.00	$38,259.00	$87.00	$30,537.00	$79.50	$27,904.50	$94.00	$32,994.00	$70.04	$24,584.04
61	1	EA	8" x 8" Tapping Sleeve & Valve	$4,517.00	$4,517.00	$4,457.00	$4,457.00	$3,700.00	$3,700.00	$7,000.00	$7,000.00	$5,000.00	$5,000.00	$4,000.00	$4,000.00	$4,575.00	$4,575.00	$6,253.00	$6,253.00	$4,984.27	$4,984.27
62	1	EA	6" x 6" Tapping Valve & Sleeve	$4,226.00	$4,226.00	$4,146.00	$4,146.00	$3,500.00	$3,500.00	$6,000.00	$6,000.00	$4,500.00	$4,500.00	$3,800.00	$3,800.00	$4,880.00	$4,880.00	$5,465.00	$5,465.00	$4,675.18	$4,675.18
63	7	LF	1 Inch Water Service	$86.00	$602.00	$50.00	$350.00	$115.00	$805.00	$100.00	$700.00	$52.00	$364.00	$83.00	$581.00	$65.00	$455.00	$101.00	$707.00	$50.50	$353.50
64	10	LF	2 Inch Water Service	$91.00	$910.00	$51.00	$510.00	$125.00	$1,250.00	$145.00	$1,450.00	$53.00	$530.00	$95.00	$950.00	$85.00	$850.00	$102.00	$1,020.00	$65.65	$656.50
65	1	EA	1 Inch Corporation Stop, Curb Stop, & Stop Box	$470.00	$470.00	$712.00	$712.00	$525.00	$525.00	$400.00	$400.00	$380.00	$380.00	$700.00	$700.00	$620.00	$620.00	$524.00	$524.00	$1,048.53	$1,048.53
66	1	EA	2 Inch Corporation Stop, Curb Stop, & Stop Box	$980.00	$980.00	$1,257.00	$1,257.00	$1,100.00	$1,100.00	$1,200.00	$1,200.00	$900.00	$900.00	$1,300.00	$1,300.00	$1,700.00	$1,700.00	$1,179.00	$1,179.00	$1,801.86	$1,801.86
67	1	EA	Reconnect 1 Inch Water Service	$895.00	$895.00	$273.00	$273.00	$625.00	$625.00	$500.00	$500.00	$500.00	$500.00	$600.00	$600.00	$380.00	$380.00	$127.00	$127.00	$532.67	$532.67
68	40	TON	Special Backfill	$12.00	$480.00	$25.00	$1,000.00	$35.00	$1,400.00	$14.00	$560.00	$40.00	$1,600.00	$15.00	$600.00	$21.25	$850.00	$0.01	$0.40	$17.17	$686.80
69	15	LF	Sawing Concrete	$3.00	$45.00	$3.00	$45.00	$44.00	$660.00	$5.00	$75.00	$3.00	$45.00	$5.00	$75.00	$5.00	$75.00	$2.25	$33.75	$5.05	$75.75
70	214	LF	Sawing Asphalt	$2.00	$428.00	$2.00	$428.00	$2.00	$428.00	$5.00	$1,070.00	$3.00	$642.00	$2.00	$428.00	$3.25	$695.50	$2.00	$428.00	$2.02	$432.28
71	134	SY	Remove Asphalt Pavement	$3.00	$402.00	$5.00	$670.00	$2.25	$301.50	$1.00	$134.00	$5.00	$670.00	$1.00	$134.00	$4.00	$536.00	$5.00	$670.00	$3.03	$406.02
72	5	TON	Asphalt Driveway (3 Inch Thickness)	$185.00	$925.00	$185.00	$925.00	$200.00	$1,000.00	$180.00	$900.00	$195.00	$975.00	$190.00	$950.00	$185.00	$925.00	$180.00	$900.00	$199.98	$999.90
73	15	TON	HMA Pavement 3MT 58-28 S (Lower Layer)	$185.00	$2,775.00	$306.00	$4,590.00	$340.00	$5,100.00	$180.00	$2,700.00	$195.00	$2,925.00	$190.00	$2,850.00	$305.00	$4,575.00	$180.00	$2,700.00	$199.98	$2,999.70
74	15	TON	HMA Pavement 4MT 58-28 S (Upper Layer)	$116.00	$1,740.00	$160.00	$2,400.00	$172.00	$2,580.00	$113.00	$1,695.00	$123.00	$1,845.00	$125.00	$1,875.00	$160.00	$2,400.00	$113.00	$1,695.00	$125.54	$1,883.10
75	70	TON	Base Aggregate Dense 1 ¼ Inch	$12.00	$840.00	$25.00	$1,750.00	$17.50	$1,225.00	$24.00	$1,680.00	$40.00	$2,800.00	$15.00	$1,050.00	$15.50	$1,085.00	$12.80	$896.00	$17.17	$1,201.90
76	58	LF	Remove & Replace Curb & Gutter 30 Inch	$42.00	$2,436.00	$37.00	$2,146.00	$52.75	$3,059.50	$45.00	$2,610.00	$45.00	$2,610.00	$60.00	$3,480.00	$48.00	$2,784.00	$45.00	$2,610.00	$43.94	$2,548.52
77	12	EA	Drilled Tie-Bars	$7.00	$84.00	$7.00	$84.00	$8.50	$102.00	$7.00	$84.00	$10.00	$120.00	$10.00	$120.00	$9.00	$108.00	$7.00	$84.00	$7.78	$93.36
78	1	EA	Remove Existing Mailboxes & Posts, Install Temporary Mailboxes	$500.00	$500.00	$961.00	$961.00	$500.00	$500.00	$1,000.00	$1,000.00	$100.00	$100.00	$400.00	$400.00	$100.00	$100.00	$50.00	$50.00	$151.50	$151.50
79	3	SF	Remove & Reset Sign	$360.00	$1,080.00	$160.00	$480.00	$100.00	$300.00	$150.00	$450.00	$400.00	$1,200.00	$200.00	$600.00	$150.00	$450.00	$100.00	$300.00	$75.75	$227.25
80	260	SY	Restoration	$10.25	$2,665.00	$10.00	$2,600.00	$10.00	$2,600.00	$5.50	$1,430.00	$20.00	$5,200.00	$15.00	$3,900.00	$7.50	$1,950.00	$9.50	$2,470.00	$11.06	$2,875.60
81	7	EA	Inlet Protection	$87.00	$609.00	$120.00	$840.00	$100.00	$700.00	$50.00	$350.00	$100.00	$700.00	$100.00	$700.00	$125.00	$875.00	$85.00	$595.00	$151.50	$1,060.50
82	1	LS	Traffic Control	$515.00	$515.00	$1,267.00	$1,267.00	$500.00	$500.00	$10,000.00	$10,000.00	$1,600.00	$1,600.00	$1,200.00	$1,200.00	$1,900.00	$1,900.00	$5,500.00	$5,500.00	$1,333.20	$1,333.20
			GLENDALE AVENUE TOTAL (Items 60 through 82, Inclusive)		**$48,482.00**		**$54,706.00**		**$50,213.00**		**$91,128.00**		**$73,465.00**		**$60,830.00**		**$60,673.00**		**$67,201.15**		**$55,611.93**
			NICOLET ROAD & GLENDALE AVENUE TOTAL (Items 1 through 82, Inclusive)		**$1,088,114.00**		**$1,128,098.00**		**$1,184,488.50**		**$1,204,441.25**		**$1,355,763.50**		**$1,338,366.50**		**$1,439,917.80**		**$1,487,639.60**		**$1,541,349.14**

NICOLET ROAD ALTERNATE BID ITEMS

Item	Qty	Unit	Description	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total	Unit Price	Total
A1	385	LF	Bore Water Service, 1 Inch	$55.00	$21,175.00	$28.00	$10,780.00	$48.00	$18,480.00	$120.00	$46,200.00	$33.00	$12,705.00	$95.00	$36,575.00	$85.00	$32,725.00	$53.70	$20,674.50	$40.08	$15,430.80
A2	100	LF	Bore Water Service, 2 Inch (Undistributed)	$84.00	$8,400.00	$42.00	$4,200.00	$89.00	$8,900.00	$200.00	$20,000.00	$39.00	$3,900.00	$98.00	$9,800.00	$95.00	$9,500.00	$56.75	$5,675.00	$47.72	$4,772.00
A3	214	LF	Bore Water Service, 6 Inch	$113.00	$24,182.00	$55.00	$11,770.00	$128.00	$27,392.00	$160.00	$34,240.00	$89.00	$19,046.00	$125.00	$26,750.00	$145.00	$31,030.00	$157.50	$33,705.00	$112.51	$24,077.14
A4	91	LF	Bore Water Main, 8 Inch	$125.00	$11,375.00	$109.00	$9,919.00	$145.00	$13,195.00	$240.00	$21,840.00	$100.00	$9,100.00	$200.00	$18,200.00	$155.00	$14,105.00	$170.00	$15,470.00	$130.06	$11,835.46
			NICOLET ROAD ALTERNATE BID ITEMS TOTAL (Items A1 through A4, Inclusive)		**$65,132.00**		**$36,669.00**		**$67,967.00**		**$122,280.00**		**$44,751.00**		**$91,325.00**		**$87,360.00**		**$75,524.50**		**$56,115.40**
			NICOLET ROAD,GLENDALE AVENUE, & ALTERNATE BID ITEMS TOTAL (Items 1 through 82, Inclusive)		**$1,153,246.00**		**$1,164,767.00**		**$1,252,455.50**		**$1,326,721.25**		**$1,400,514.50**		**$1,429,691.50**		**$1,527,277.80**		**$1,563,164.10**		**$1,597,464.54**

Bid Security	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Addendum Acknowledgement	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

SUBCONTRACTOR TABULATION	Subcontractor	Subcontractor	Subcontractor	Subcontractor	Subcontractor	Subcontractor	Subcontractor	Subcontractor	Subcontractor
Asphalt Paving	Northeast Asphalt	MCC, Inc.	-	Northeast Asphalt	Northeast Asphalt	Northeast Asphalt	Northeast Asphalt	Northeast Asphalt	Northeast Asphalt
Concrete Curb & Gutter	Al Dix	Al Dix	Al Dix	Al Dix	Al Dix	Jim Fischer	Al Dix	Al Dix	Al Dix
Lawn Restoration	All-Ways Landscaping	-	-	-	-	-	-	-	All Ways
Bore Water Main	M & E Construction	Seven Oaks	Precision Tunneling	Red Ants Boring Co.	Red Ants Boring	-	M & E	Red Ant Boring	Red Ant / M & E
Directional Boring					M & E Construction				

BID TABULATION

Owner:	GRAND CHUTE SANITARY DISTRICT #1
Project Name:	2020 Water Main Projects
Contract No.	2020-11 | G0007-9-19-00559
Bid Date:	Tuesday, February 25, 2020
Bid Time:	2:00 pm, local time
Project Manager:	Mick Magalski

Engineer: McMAHON ASSOCIATES, INC.
1445 McMahon Drive
P.O. Box 1025
Neenah, WI 54956 / 54957-1025

NICOLET ROAD

Item	Qty	Unit	Description	PTS CONTRACTORS, INC. 4075 Eaton Road Green Bay, WI 54311 Unit Price	Total	DORNER, INC. E506 Luxemburg Road PO Box 129 Luxemburg, WI 54217 Unit Price	Total	PTS CONTRACTORS, INC. 4075 Eaton Road Green Bay, WI 54311 ALTERNATE PRICES Unit Price	Total	DORNER, INC. E506 Luxemburg Road PO Box 129 Luxemburg, WI 54217 ALTERNATE PRICES Unit Price	Total
1	104	LF	8 Inch Water Main	$119.00	$12,376.00	$127.00	$13,208.00	$119.00	$1,547.00	$127.00	$1,651.00
2	4,080	LF	12 Inch Water Main	$79.00	$322,320.00	$75.00	$306,000.00	$79.00	$322,320.00	$75.00	$306,000.00
3	115	LF	Bore & Case 12 Inch Water Main (With Spacers for 12 Inch Water Main)	$470.00	$54,050.00	$441.00	$50,715.00	$470.00	$54,050.00	$441.00	$50,715.00
4	1	EA	16" x 12" Tapping Valve & Sleeve	$6,750.00	$6,750.00	$7,086.00	$7,086.00	$6,750.00	$6,750.00	$7,086.00	$7,086.00
5	10	EA	12 Inch Valve	$2,700.00	$27,000.00	$2,900.00	$29,000.00	$2,700.00	$27,000.00	$2,900.00	$29,000.00
6	4	EA	8 Inch Valve	$1,600.00	$6,400.00	$1,730.00	$6,920.00	$1,600.00	$6,400.00	$1,730.00	$6,920.00
7	15	EA	6 Inch Valve	$1,165.00	$17,475.00	$1,258.00	$18,870.00	$1,165.00	$17,475.00	$1,258.00	$18,870.00
8	2	EA	Replace Tee Bolts	$2,900.00	$5,800.00	$1,000.00	$2,000.00	$2,900.00	$5,800.00	$1,000.00	$2,000.00
9	4	EA	Replace Valve Bolts	$2,900.00	$11,600.00	$1,000.00	$4,000.00	$2,900.00	$11,600.00	$1,000.00	$4,000.00
10	10	EA	Hydrant with Auxiliary Valve	$5,200.00	$52,000.00	$5,563.00	$55,630.00	$5,200.00	$52,000.00	$5,563.00	$55,630.00
11	206	LF	6 Inch Hydrant Lead	$68.00	$14,008.00	$65.00	$13,390.00	$68.00	$14,008.00	$65.00	$13,390.00
12	513	LF	6 Inch Water Service	$74.00	$37,962.00	$74.00	$37,962.00	$74.00	$22,126.00	$74.00	$22,126.00
13	572	LF	1 Inch Water Service	$54.00	$30,888.00	$65.00	$37,180.00	$54.00	$10,098.00	$65.00	$12,155.00
14	25	LF	1 ½ Inch Water Service	$57.00	$1,425.00	$65.00	$1,625.00	$57.00	$1,425.00	$65.00	$1,625.00
15	52	LF	2 Inch Water Service	$82.00	$4,264.00	$66.00	$3,432.00	$82.00	$4,264.00	$66.00	$3,432.00
16	17	EA	1 Inch Corporation Stop, Curb Stop, & Stop Box	$470.00	$7,990.00	$711.00	$12,087.00	$470.00	$7,990.00	$711.00	$12,087.00
17	1	EA	1 ½ Inch Corporation Stop, Curb Stop, & Stop Box	$756.00	$756.00	$1,016.00	$1,016.00	$756.00	$756.00	$1,016.00	$1,016.00
18	3	EA	2 Inch Corporation Stop, Curb Stop, & Stop Box	$980.00	$2,940.00	$1,257.00	$3,771.00	$980.00	$2,940.00	$1,257.00	$3,771.00
19	17	EA	Reconnect 1 Inch Water Service	$318.00	$5,406.00	$270.00	$4,590.00	$318.00	$5,406.00	$270.00	$4,590.00
20	1	EA	Reconnect 1 ½ Inch Water Service	$375.00	$375.00	$332.00	$332.00	$375.00	$375.00	$332.00	$332.00
21	3	EA	Reconnect 2 Inch Water Service	$400.00	$1,200.00	$361.00	$1,083.00	$400.00	$1,200.00	$361.00	$1,083.00
22	15	EA	Reconnect 6 Inch Water Service	$1,050.00	$15,750.00	$918.00	$13,770.00	$1,050.00	$15,750.00	$918.00	$13,770.00
23	1	LS	Abandon Existing Water Main, Hydrant Leads, & Services (All Sizes, Estimated at 4,100 Linear Feet)	$14,400.00	$14,400.00	$5,197.00	$5,197.00	$14,400.00	$14,400.00	$5,197.00	$5,197.00
24	23	EA	Abandon Water Valve (All Sizes)	$116.00	$2,668.00	$254.00	$5,842.00	$116.00	$2,668.00	$254.00	$5,842.00
25	50	LF	Remove Existing Water Main (All Sizes)	$58.00	$2,900.00	$14.00	$700.00	$58.00	$2,900.00	$14.00	$700.00
26	8	EA	Remove Hydrant & Auxiliary Valve	$405.00	$3,240.00	$500.00	$4,000.00	$405.00	$3,240.00	$500.00	$4,000.00
27	2	EA	Remove Valve (All Sizes)	$405.00	$810.00	$600.00	$1,200.00	$405.00	$810.00	$600.00	$1,200.00
28	2,200	TON	Special Backfill	$11.66	$25,652.00	$20.00	$44,000.00	$11.66	$25,652.00	$20.00	$44,000.00
29	706	LF	Sawing Concrete	$3.00	$2,118.00	$3.00	$2,118.00	$3.00	$1,893.00	$3.00	$1,893.00
30	4,803	LF	Sawing Asphalt	$1.60	$7,684.80	$2.00	$9,606.00	$1.60	$6,814.40	$2.00	$8,518.00
31	8,568	SY	Remove Asphalt Pavement	$2.50	$21,420.00	$3.00	$25,704.00	$2.50	$20,665.00	$3.00	$24,798.00
32	1,800	TON	HMA Pavement 3MT 58-28 S (Lower Layer)	$71.50	$128,700.00	$77.00	$138,600.00	$71.50	$124,410.00	$77.00	$133,980.00
33	1,030	TON	HMA Pavement 4MT 58-28 S (Upper Layer)	$70.60	$72,718.00	$65.00	$66,950.00	$70.60	$70,247.00	$65.00	$64,675.00
34	2,550	TON	Base Aggregate Dense 1 ¼ Inch	$11.60	$29,580.00	$20.00	$51,000.00	$11.60	$26,076.80	$20.00	$44,960.00
35	10	TON	Base Aggregate Dense ¾ Inch (Gravel Shoulder Replacement)	$40.00	$400.00	$40.00	$400.00	$40.00	$400.00	$40.00	$400.00
36	622	LF	Remove & Replace Curb & Gutter 30 Inch	$40.60	$25,253.20	$37.00	$23,014.00	$40.60	$19,569.20	$37.00	$17,834.00
37	5	LF	Remove & Replace Curb & Gutter 24 Inch	$41.00	$205.00	$37.00	$185.00	$41.00	$205.00	$37.00	$185.00
38	1,050	SF	Remove & Replace Concrete Driveway 6 Inch	$7.30	$7,665.00	$7.00	$7,350.00	$7.30	$7,665.00	$7.00	$7,350.00
39	1,060	SF	Remove & Replace Concrete Sidewalk 4 Inch	$6.80	$7,208.00	$6.00	$6,360.00	$6.80	$7,208.00	$6.00	$6,360.00
40	1,625	SF	Remove & Replace Concrete Sidewalk 6 Inch	$7.30	$11,862.50	$7.00	$11,375.00	$7.30	$11,862.50	$7.00	$11,375.00
41	250	EA	Drilled Tie-Bars	$7.20	$1,800.00	$7.00	$1,750.00	$7.20	$1,800.00	$7.00	$1,750.00
42	25	TON	Temporary Pedestrian Asphaltic Surface	$136.00	$3,400.00	$135.00	$3,375.00	$136.00	$3,400.00	$135.00	$3,375.00

BID TABULATION

Owner:	GRAND CHUTE SANITARY DISTRICT #1
Project Name:	2020 Water Main Projects
Contract No.	2020-11 | G0007-9-19-00559
Bid Date:	Tuesday, February 25, 2020
Bid Time:	2:00 pm, local time
Project Manager:	Mick Magalski

Engineer: McMAHON ASSOCIATES, INC.
1445 McMahon Drive
P.O. Box 1025
Neenah, WI 54956 / 54957-1025

				PTS CONTRACTORS, INC. 4075 Eaton Road Green Bay, WI 54311		DORNER, INC. E506 Luxemburg Road PO Box 129 Luxemburg, WI 54217		PTS CONTRACTORS, INC. 4075 Eaton Road Green Bay, WI 54311		DORNER, INC. E506 Luxemburg Road PO Box 129 Luxemburg, WI 54217	
43	1	EA	Remove Existing Mailboxes & Posts, Install Temporary Mailboxes	$1,740.00	$1,740.00	$3,845.00	$3,845.00	$1,740.00	$1,740.00	$3,845.00	$3,845.00
44	33	SF	Detectable Warning Fields	$34.00	$1,122.00	$35.00	$1,155.00	$34.00	$1,122.00	$35.00	$1,155.00
45	810	SY	Restoration	$10.20	$8,262.00	$10.00	$8,100.00	$10.20	$8,262.00	$10.00	$8,100.00
46	36	EA	Inlet Protection	$87.00	$3,132.00	$120.00	$4,320.00	$87.00	$3,132.00	$120.00	$4,320.00
47	1	LS	Traffic Control	$3,085.00	$3,085.00	$7,918.00	$7,918.00	$3,085.00	$3,085.00	$7,918.00	$7,918.00
48	1	LS	Traffic Control Detour	$1,030.00	$1,030.00	$1,900.00	$1,900.00	$1,030.00	$1,030.00	$1,900.00	$1,900.00
49	120	SY	Emat Class I Type B	$3.00	$360.00	$6.00	$720.00	$3.00	$360.00	$6.00	$720.00
50	75	LF	Silt Fence	$6.00	$450.00	$10.00	$750.00	$6.00	$450.00	$10.00	$750.00
51	20	EA	Erosion Bales	$20.00	$400.00	$18.00	$360.00	$20.00	$400.00	$18.00	$360.00
52	250	LF	Marking Epoxy 4 Inch (White)	$1.00	$250.00	$1.00	$250.00	$1.00	$250.00	$1.00	$250.00
53	3,426	LF	Marking Epoxy 4 Inch (Yellow)	$1.00	$3,426.00	$1.00	$3,426.00	$1.00	$3,426.00	$1.00	$3,426.00
54	205	LF	Marking Epoxy 6 Inch Crosswalk	$10.30	$2,111.50	$11.00	$2,255.00	$10.30	$2,111.50	$11.00	$2,255.00
55	340	LF	Marking Epoxy 8 Inch (White)	$2.00	$680.00	$2.00	$680.00	$2.00	$680.00	$2.00	$680.00
56	120	LF	Marking 18 Inch Epoxy Stop Line	$13.40	$1,608.00	$14.00	$1,680.00	$13.40	$1,608.00	$14.00	$1,680.00
57	2	EA	Marking Arrow Type I, Epoxy	$155.00	$310.00	$158.00	$316.00	$155.00	$310.00	$158.00	$316.00
58	6	EA	Marking Arrow Type II, Epoxy	$258.00	$1,548.00	$264.00	$1,584.00	$258.00	$1,548.00	$264.00	$1,584.00
59	6	EA	Marking Arrow Type III, Epoxy	$283.00	$1,698.00	$290.00	$1,740.00	$283.00	$1,698.00	$290.00	$1,740.00
			NICLOET ROAD TOTAL (Items 1 through 59, Inclusive)		**$1,039,632.00**		**$1,073,392.00**		**$974,378.40**		**$1,000,640.00**

EJCDC
ENGINEERS JOINT CONTRACT DOCUMENTS COMMITTEE

Work Change Directive No. 01

Date of Issuance:		Effective Date:	
Owner:	Grand Chute Sanitary District No. 1	Owner's Contract No.:	2020-11
Contractor:	PTS Contractors, Inc.	Contractor's Project No.:	
Engineer:	McMahon Associates, Inc.	Engineer's Project No.:	G0007-9-19-00559
Project:	2020 Water Main Projects	Contract Name:	2020 Water Main Projects

Contractor is directed to proceed promptly with the following change(s):

Description:
Adjust quantities and amounts to reflect boring the long side services rather than open cutting them.

Attachments:
Work Change Directive #1 Spreadsheet

Purpose for Work Change Directive:
Directive to proceed promptly with the Work described herein, prior to agreeing to changes on Contract Price and Contract Time, is issued due to: *[check one or both of the following]*

☐ Non-agreement on pricing of proposed change.

☐ Necessity to proceed for schedule or other Project reasons.

Estimated Change in Contract Price and Contract Times (non-binding, preliminary):

Contract Price $ 73,653.60 decrease

Contract Time 0 days

Basis of estimated change in Contract Price:

☐ Lump Sum ☒ Unit Price

☐ Cost of the Work ☐ Other

RECOMMENDED:	AUTHORIZED BY:	RECEIVED:
By: _____	By: _____	By: _____
Engineer (Authorized Signature)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Title: McMahon Associates, Inc.	Title: Grand Chute Sanitary Dis. #1	Title: PTS Contractors, Inc.
Date:	Date:	Date:

Approved by Funding Agency (if applicable)

By: Date:

PROJECTS \ G0007 \ 91900559 \ CONSTRUCTION \ CONTRACT DOCS \ WORK CHANGE DIRECTIVE \ 01.DOC

GRAND CHUTE SANITARY DISTRICT #1
2020 Water Main Projects
2020-11 | G0007-9-19-00559

NICOLET ROAD

Item No.	Award Qty	Unit	Description	Unit Price	Awarded Contract Total	Work Change Directive #1 Quantity Revision	Revised Quantity	Amount Revision	Revised Amount
1	104	LF	8 Inch Water Main	$119.00	$12,376.00	-91	13	($10,829.00)	$1,547.00
2	4,080	LF	12 Inch Water Main	$79.00	$322,320.00	0	4,080	$0.00	$322,320.00
3	115	LF	Bore & Case 12 Inch Water Main (With Spacers for 12 Inch Water Main)	$470.00	$54,050.00	0	115	$0.00	$54,050.00
4	1	EA	16" x 12" Tapping Valve & Sleeve	$6,750.00	$6,750.00	0	1	$0.00	$6,750.00
5	10	EA	12 Inch Valve	$2,700.00	$27,000.00	0	10	$0.00	$27,000.00
6	4	EA	8 Inch Valve	$1,600.00	$6,400.00	0	4	$0.00	$6,400.00
7	15	EA	6 Inch Valve	$1,165.00	$17,475.00	0	15	$0.00	$17,475.00
8	2	EA	Replace Tee Bolts	$2,900.00	$5,800.00	0	2	$0.00	$5,800.00
9	4	EA	Replace Valve Bolts	$2,900.00	$11,600.00	0	4	$0.00	$11,600.00
10	10	EA	Hydrant with Auxiliary Valve	$5,200.00	$52,000.00	0	10	$0.00	$52,000.00
11	206	LF	6 Inch Hydrant Lead	$68.00	$14,008.00	0	206	$0.00	$14,008.00
12	513	LF	6 Inch Water Service	$74.00	$37,962.00	-214	299	($15,836.00)	$22,126.00
13	572	LF	1 Inch Water Service	$54.00	$30,888.00	-385	187	($20,790.00)	$10,098.00
14	25	LF	1 ½ Inch Water Service	$57.00	$1,425.00	0	25	$0.00	$1,425.00
15	52	LF	2 Inch Water Service	$82.00	$4,264.00	0	52	$0.00	$4,264.00
16	17	EA	1 Inch Corporation Stop, Curb Stop, & Stop Box	$470.00	$7,990.00	0	17	$0.00	$7,990.00
17	1	EA	1 ½ Inch Corporation Stop, Curb Stop, & Stop Box	$756.00	$756.00	0	1	$0.00	$756.00
18	3	EA	2 Inch Corporation Stop, Curb Stop, & Stop Box	$980.00	$2,940.00	0	3	$0.00	$2,940.00
19	17	EA	Reconnect 1 Inch Water Service	$318.00	$5,406.00	0	17	$0.00	$5,406.00
20	1	EA	Reconnect 1 ½ Inch Water Service	$375.00	$375.00	0	1	$0.00	$375.00
21	3	EA	Reconnect 2 Inch Water Service	$400.00	$1,200.00	0	3	$0.00	$1,200.00
22	15	EA	Reconnect 6 Inch Water Service	$1,050.00	$15,750.00	0	15	$0.00	$15,750.00
23	1	LS	Abandon Existing Water Main, Hydrant Leads, & Services (All Sizes, Estimated at 4,100 Linear Feet)	$14,400.00	$14,400.00	0	1	$0.00	$14,400.00
24	23	EA	Abandon Water Valve (All Sizes)	$116.00	$2,668.00	0	23	$0.00	$2,668.00
25	50	LF	Remove Existing Water Main (All Sizes)	$58.00	$2,900.00	0	50	$0.00	$2,900.00
26	8	EA	Remove Hydrant & Auxiliary Valve	$405.00	$3,240.00	0	8	$0.00	$3,240.00
27	2	EA	Remove Valve (All Sizes)	$405.00	$810.00	0	2	$0.00	$810.00
28	2,200	TON	Special Backfill	$11.66	$25,652.00	0	2,200	$0.00	$25,652.00
29	706	LF	Sawing Concrete	$3.00	$2,118.00	-75	631	($225.00)	$1,893.00
30	4,803	LF	Sawing Asphalt	$1.60	$7,684.80	-544	4,259	($870.40)	$6,814.40
31	8,568	SY	Remove Asphalt Pavement	$2.50	$21,420.00	-302	8,266	($755.00)	$20,665.00
32	1,800	TON	HMA Pavement 3MT 58-28 S (Lower Layer)	$71.50	$128,700.00	-60	1,740	($4,290.00)	$124,410.00
33	1,030	TON	HMA Pavement 4MT 58-28 S (Upper Layer)	$70.60	$72,718.00	-35	995	($2,471.00)	$70,247.00
34	2,550	TON	Base Aggregate Dense 1 ¼ Inch	$11.60	$29,580.00	-302	2,248	($3,503.20)	$26,076.80

35	10	TON	Base Aggregate Dense ¾ Inch (Gravel Shoulder Replacement)	$40.00	$400.00	0	10	$0.00	$400.00
36	622	LF	Remove & Replace Curb & Gutter 30 Inch	$40.60	$25,253.20	-140	482	($5,684.00)	$19,569.20
37	5	LF	Remove & Replace Curb & Gutter 24 Inch	$41.00	$205.00	0	5	$0.00	$205.00
38	1,050	SF	Remove & Replace Concrete Driveway 6 Inch	$7.30	$7,665.00	0	1,050	$0.00	$7,665.00
39	1,060	SF	Remove & Replace Concrete Sidewalk 4 Inch	$6.80	$7,208.00	0	1,060	$0.00	$7,208.00
40	1,625	SF	Remove & Replace Concrete Sidewalk 6 Inch	$7.30	$11,862.50	0	1,625	$0.00	$11,862.50
41	250	EA	Drilled Tie-Bars	$7.20	$1,800.00	0	250	$0.00	$1,800.00
42	25	TON	Temporary Pedestrian Asphaltic Surface	$136.00	$3,400.00	0	25	$0.00	$3,400.00
43	1	EA	Remove Existing Mailboxes & Posts, Install Temporary Mailboxes	$1,740.00	$1,740.00	0	1	$0.00	$1,740.00
44	33	SF	Detectable Warning Fields	$34.00	$1,122.00	0	33	$0.00	$1,122.00
45	810	SY	Restoration	$10.20	$8,262.00	0	810	$0.00	$8,262.00
46	36	EA	Inlet Protection	$87.00	$3,132.00	0	36	$0.00	$3,132.00
47	1	LS	Traffic Control	$3,085.00	$3,085.00	0	1	$0.00	$3,085.00
48	1	LS	Traffic Control Detour	$1,030.00	$1,030.00	0	1	$0.00	$1,030.00
49	120	SY	Emat Class I Type B	$3.00	$360.00	0	120	$0.00	$360.00
50	75	LF	Silt Fence	$6.00	$450.00	0	75	$0.00	$450.00
51	20	EA	Erosion Bales	$20.00	$400.00	0	20	$0.00	$400.00
52	250	LF	Marking Epoxy 4 Inch (White)	$1.00	$250.00	0	250	$0.00	$250.00
53	3,426	LF	Marking Epoxy 4 Inch (Yellow)	$1.00	$3,426.00	0	3,426	$0.00	$3,426.00
54	205	LF	Marking Epoxy 6 Inch Crosswalk	$10.30	$2,111.50	0	205	$0.00	$2,111.50
55	340	LF	Marking Epoxy 8 Inch (White)	$2.00	$680.00	0	340	$0.00	$680.00
56	120	LF	Marking 18 Inch Epoxy Stop Line	$13.40	$1,608.00	0	120	$0.00	$1,608.00
57	2	EA	Marking Arrow Type I, Epoxy	$155.00	$310.00	0	2	$0.00	$310.00
58	6	EA	Marking Arrow Type II, Epoxy	$258.00	$1,548.00	0	6	$0.00	$1,548.00
59	6	EA	Marking Arrow Type III, Epoxy	$283.00	$1,698.00	0	6	$0.00	$1,698.00
			NICLOET ROAD TOTAL (Items 1 through 59, Inclusive)		**$1,039,632.00**				**$974,378.40**

GLENDALE AVENUE

Item No.	Award Qty	Unit	Description	Unit Price	Awarded Contract Total	Work Change Directive #1 Quantity Revision	Revised Quantity	Amount Revision	Revised Amount
60	351	LF	8 Inch Water Main	$58.00	$20,358.00	0	351	$0.00	$20,358.00
61	1	EA	8" x 8" Tapping Sleeve & Valve	$4,517.00	$4,517.00	0	1	$0.00	$4,517.00
62	1	EA	6" x 6" Tapping Valve & Sleeve	$4,226.00	$4,226.00	0	1	$0.00	$4,226.00
63	7	LF	1 Inch Water Service	$86.00	$602.00	0	7	$0.00	$602.00
64	10	LF	2 Inch Water Service	$91.00	$910.00	0	10	$0.00	$910.00
65	1	EA	1 Inch Corporation Stop, Curb Stop, & Stop Box	$470.00	$470.00	0	1	$0.00	$470.00
66	1	EA	2 Inch Corporation Stop, Curb Stop, & Stop Box	$980.00	$980.00	0	1	$0.00	$980.00
67	1	EA	Reconnect 1 Inch Water Service	$895.00	$895.00	0	1	$0.00	$895.00
68	40	TON	Special Backfill	$12.00	$480.00	0	40	$0.00	$480.00
69	15	LF	Sawing Concrete	$3.00	$45.00	0	15	$0.00	$45.00
70	214	LF	Sawing Asphalt	$2.00	$428.00	0	214	$0.00	$428.00
71	134	SY	Remove Asphalt Pavement	$3.00	$402.00	0	134	$0.00	$402.00

72	5	TON	Asphalt Driveway (3 Inch Thickness)	$185.00	$925.00	0	5	$0.00	$925.00
73	15	TON	HMA Pavement 3MT 58-28 S (Lower Layer)	$185.00	$2,775.00	0	15	$0.00	$2,775.00
74	15	TON	HMA Pavement 4MT 58-28 S (Upper Layer)	$116.00	$1,740.00	0	15	$0.00	$1,740.00
75	70	TON	Base Aggregate Dense 1 ¼ Inch	$12.00	$840.00	0	70	$0.00	$840.00
76	58	LF	Remove & Replace Curb & Gutter 30 Inch	$42.00	$2,436.00	0	58	$0.00	$2,436.00
77	12	EA	Drilled Tie-Bars	$7.00	$84.00	0	12	$0.00	$84.00
78	1	EA	Remove Existing Mailboxes & Posts, Install Temporary Mailboxes	$500.00	$500.00	0	1	$0.00	$500.00
79	3	SF	Remove & Reset Sign	$360.00	$1,080.00	0	3	$0.00	$1,080.00
80	260	SY	Restoration	$10.25	$2,665.00	0	260	$0.00	$2,665.00
81	7	EA	Inlet Protection	$87.00	$609.00	0	7	$0.00	$609.00
82	1	LS	Traffic Control	$515.00	$515.00	0	1	$0.00	$515.00
			GLENDALE AVENUE TOTAL (Items 60 through 82, Inclusive)		**$48,482.00**				**$48,482.00**
			NICOLET ROAD & GLENDALE AVENUE TOTAL (Items 1 through 82, Inclusive)		**$1,088,114.00**				**$1,022,860.40**

ALTERNATE BID
NICOLET ROAD

Item No.	Award Qty	Unit	Description	Unit Price	Awarded Contract Total	Work Change Directive #1 Quantity Revision	Revised Quantity	Amount Revision	Revised Amount
A1	385	LF	Bore Water Service, 1 Inch	$55.00	$21,175.00	0	385	$0.00	$21,175.00
A2	100	LF	Bore Water Service, 2 Inch (Undistributed)	$84.00	$8,400.00	-100	0	($8,400.00)	$0.00
A3	214	LF	Bore Water Service, 6 Inch	$113.00	$24,182.00	0	214	$0.00	$24,182.00
A4	91	LF	Bore Water Main, 8 Inch	$125.00	$11,375.00	0	91	$0.00	$11,375.00
			NICOLET ROAD ALTERNATE BID ITEMS TOTAL (Items A1 through A4, Inclusive)		**$65,132.00**				**$56,732.00**
			NICOLET & GLENDALE WITH ALTERNATE BID TOTAL (Items 1 through 82 and A1 through A4, Inclusive)		**$1,153,246.00**				**$1,079,592.40**

Workbook: Bid Tab
Worksheet: Work change directive 1
Location: w:\PROJECTS\G0007\91900559\Admin\Spec\
Date: March 2, 2020

Grand Chute

AGENDA REQUEST
3/17/2020

TOPIC: Proposal & Scope of Work with Utilis for satellite leak detection services in the amount of $9,375.

☒ New Business ☐ Unfinished Business ☐ Reports ☐ Closed Session ☐ Ordinance/Resolution	Meeting: Sanitary District 1
Department Reporting: Public Works	Submitted By: Katie Schwartz, P.E., Director P.W.

ISSUE: Shall the Sanitary Commission approve the Proposal & Scope of Work with Utilis for satellite leak detection services in the amount of $9,375.

BACKGROUND/ANALYSIS: The Non-Revenue Water Study recently completed by AECOM continues to confirm the belief that the majority of the water loss in the Town is primarily leakage in the system. The study indicates that the Town may want to consider an advanced leak detection technology such as utilizing satellite imagery developed by Utilis Ltd. to identify points of interest for the field crew to perform leak detection. The technology looks for drinking water in contact with soil from satellites and uses technology first developed to search for water on Mars.

The Green Bay Water Utility utilized this service recently with great success, and Town staff have been working with surrounding communities since December to join forces in obtaining one image to get the best possible rate. At the present time, the following communities are interested in pursuing this program: Grand Chute, Appleton, Fox Crossing, Greenville, Kaukauna, Little Chute, and Kimberly.

RECOMMENDATION: Staff recommends approval of the Proposal & Scope of Work with Utilis for satellite leak detection services in the amount of $9,375.

FISCAL IMPACT: BUDGET
$28,500 was budgeted in 2120 for third-party leak detection in 61-01-92300-290 (Contractual Services)

ATTACHMENTS:
Attachment No. 1 - Proposal & Scope of Work from Utilis for satellite leak detection services

Proposal for the Town of Grand Chute

Proposal & Scope of Work

Prepared by: James Perry
Vice President of Business Development

16885 West Bernardo Drive Suite 305, San Diego, California 92127

March 5, 2020

Utilis developed a unique and patented technology for infrastructure condition assessments, pipe replacement modeling influencers, and leak detection in urban potable water networks, using satellite mounted sensors. The analysis is based on a primary algorithm that detects background water loss associated with leaks through the analysis of microwave spectral satellite imagery.

The scope of work contained herein details the work product and deliverables Utilis will provide as well as the roles and responsibilities of both Utilis and the Town of Grand Chute **("Client").** In order to achieve best results and maximum value, "best practices" should be followed. A best practices program is part of this scope of work. A fee schedule and a work schedule are also part of this scope of work.

RECITALS

WHEREAS, Utilis has developed a commercial product/service that can identify leaking treated water pipelines using remote sensing technology.

WHEREAS, Client owns and/or manages water distribution pipelines in **AOI** (area of interest) and is interested in reducing non-revenue water (NRW) losses.

WHEREAS, Client has GIS-based maps of the distribution system and has access to field leak inspection personnel to perform leaks pinpointing.

WHEREAS, Client desires to work with Utilis for the provision of leak detection services.

Therefore, to accomplish the purpose stated above, and in consideration of the mutual statements below, Utilis and **Client**, agree as follows:

SCOPE OF WORK

In order to meet the objectives listed above, Utilis's deliverables under this scope of work shall be a data-driven report of potential leak areas. These potential leak areas identified by the satellite are developed using Utilis's standard techniques of data collection and analysis. Raw microwave satellite images are received as the input, after which the Utilis team applies a proprietary mathematical algorithm that prepares the data for analysis. The prepared microwave image is then analyzed, and identifies potential leaks of potable water. A search area around the potential leak location will be calculated according to physical properties of the analyzed area and technical components of the airborne sensors. The potential leak target area will be displayed as a highlighted pipe length that must be investigated. Reports of the analysis results are provided via a password-protected web portal, and include GIS files, graphical leak reports, and/or GIS web-based applications.

Utilis solution's main benefits:

- No capital expenditure or network setup needed. Satellite images may be obtained and analyzed with mere weeks of notice.
- Increases the efficiencies of traditional acoustic leak detection programs by prioritizing work locations and offering quicker response times to potential leak areas.
- Identifies background (i.e., non-surfacing) leaks that may otherwise go undetected for long periods of time.
- Simultaneously surveys an entire system (or large swaths of a system) at one instant, while also providing location intelligence at a fine resolution. May help identify leaks in areas where traditional acoustic leak detection programs may not typically survey.

ROLES, RESPONSIBILITIES AND DELIVERABLES

Utilis

Utilis's role is to provide reports notating areas containing potential leaks using a proprietary satellite imaging algorithm in **Client's** water system. Utilis will provide a primary contact person for technical and administrative purposes.

Utilis's responsibilities include:

- Acquiring and analyzing satellite imagery.
- Preparing a GIS-based report of potential leak locations, a.k.a. Points of Interest (POIs).
- Providing best practices for field inspection protocols.

Utilis's deliverables include:

- **GIS Output:** GIS layer of the POIs, represented as a search area, provided in SHP and KML files. This can be imported into a GIS system and overlaid on a map showing streets, pipes, hydrants, valves, and potential leak information.
- **Online Dashboard:** A link to a password-protected portal with the data collected via the U-Collect field app for monitoring the project/service progress in real time and calculating KPIs. The term of this license is three (3) months past the date of the last delivery.
- **U-Collect, U-View, Licenses**: one (1) license for each of the following: U-Collect (allows field technician to collect data in the field), and U-View (allows field technician to view data in the field). The term of this license is three (3) months past the date of the last delivery. Additional licenses can be purchased and/or extended for 3-month sessions.
- **Leak Sheets:** A set of maps in PDF digital printable format showing details of each POI (Example of all deliverables: Appendix A).
- **Data Form:** An Excel spreadsheet containing analysis results in tabular form.
- **Kick-off meeting:** before any field work is carried out, Utilis or a Utilis certified team (regardless if customer's team or a contractor), will set up a kick-off meeting to agree on the operational field

plan to address the customer's specific needs and the best practices required to get the best results.

- **Certification:** When the field team is using Utilis data for the first time or when circumstances requires, before field work is carried out, Utilis will set up a certification session for the dedicated leak detection teams. This will include training how to approach the surveys ("best practices"), technology overview, and key information on how this survey technique differs from standard behavior or previous experience.
- **Field Support:** When circumstances require, a Utilis field engineer will be available for onsite field support to assist the team to integrate the new methods into field team protocol. The Utilis field engineer is not responsible for acoustic leak detection or pinpointing of leaks.

Client

Client is responsible for providing baseline system data, work order history and an acoustic leak detection team to inspect POIs (points of interest) identified by Utilis. **Client** shall identify a primary contact person for technical, administrative and field inspection coordination. Utilis agrees to use the information described below only for client's specific project and to not share the information with any other third party.

Client's responsibilities include:

- **Pipe System Information:** Before image acquisition, the client shall provide Utilis with a detailed and accurate GIS pipe system layer. Utilis will use this layer to identify POI locations. The GIS layer should include pipe material and diameter, length of pipeline to be analyzed, hydrants, valves, and any other detailed information available.
- **Leak Detection History (Work Orders):** The client shall provide Utilis with a detailed and accurate history of leak findings and repairs starting one (1) week before the date the satellite image was acquired and before the field verification efforts begin with the Utilis representative.
- **Leak Detection Performance Metrics:** The client shall provide Utilis with relevant and available performance metric data related to currently utilized leak detection methodologies. This information will be used to calculate value proposition of the service.
- **Acoustic Leak Detection Team:** Customer shall provide dedicated field verification teams for the project. Unless agreed otherwise by both parties, the dedicated acoustic team will be separated from the day to day schedule and tasks, and will operate Utilis oriented field pinpointing only, according to Utilis best practices and guidance. Upon request Utilis can subcontract certified field leak detection teams at additional cost.
- **Leak Detection Team Minimum Requirements:** The leak detection team(s) directed by the customer to perform the field work for the project shall be proficient and experienced in using and operating acoustic equipment, such as amplified leak listeners, ground microphones, leak noise correlators, at a minimum. The team(s) should have all needed tools to access listening points. Also, smartphones (Android or iOS) will be required for all leak detection teams.
- **Input Data:** The Client shall provide these items to the assigned Utilis contact for Utilis to create a final report analyzing the project. Water audit results conducted according to AWWA recommendations are the preferred source of input data whenever available.

1. Cost of a crew per day
2. Total system miles
3. Number of connections
4. NRW % and volumes
5. System attributes (pipe material breakdown)
6. Total system volumetric delivery and demand
7. Any benchmark results from other leak detection activities (either utility staff or outside contractors), including costs
8. Cost of water production ($) per 1000 gallons
9. Retail cost of water ($) per 1000 gallons

BEST PRACTICES

The following list detailing Best Practices is the standard by which the Utilis program is based. These practices should be followed unless there are extenuating circumstances that require a modification. Pursuant to the Utilis standard Best Practices, approximately 40-50 listening points are accessed per point of interest (POI) inspected. This is virtually all available points, which maximizes leaks found. When listening points are limited due to indoor meter locations, covered appurtenances such as curb stops (service line valves), difficulty accessing locations or crew time constraints, a modification of the leak finding best practices may be advisable. This modification may take the form of instituting a pre-localization program whereby crews are deployed to locate, mark and ensure access to all listening points available. Additionally, the modification may take the form of limiting the number of listening points accessed and focusing on covering more linear miles of pipe. A recommendation on the most appropriate best practices program to follow will be based on the specific aspects of the system.

In order to achieve the best results, the following standards shall be adhered to; these include, achieving the highest true positive rate, uncovering the most leaks found, maximizing the total number of locations inspected, employing a comprehensive inspection protocol, which all combine to constitute a set of best practices which shall be followed. These include the following steps:

1. The acoustic leak detection team shall be proficient with the use of the acoustic equipment. All inspection equipment must be in good working order, necessitating that all equipment must be calibrated.
2. The acoustic leak detection team needs to be certified by Utilis on the methods for investigation to ensure maximum coverage throughout the buffer zone. The certification includes: 1-hour instruction about the Utilis technology and data deliverables followed by field implementation, investigating Utilis POI while following Utilis best practices as described in this section.
3. Inspections shall continue throughout the buffer zone even after if a leak is found, ensuring that there are no other leaks in the area.
4. Field work shall take place as soon after the satellite imagery acquisition and leakage report delivery as possible.
5. The field work shall start after comparing Utilis POI with work order (WO) data to identify where leaks have been located and repaired.
6. The leak inspection crews shall inspect every potential listening point including all valves, hydrants, private connections and meter boxes. These shall be inspected within and just outside of the highlighted pipe area to ensure all target zones are adequately covered.

7. If an investigation is not conclusive, and it is possible that the current ambient conditions are affecting results, consider returning at another time when conditions are better suited for inspection.
8. PVC/PE pipe is more difficult to detect leaks using acoustic methods than metal pipe. More care must be taken when inspecting known PVC/PE. Use of ground microphones is recommended.
9. Document all findings with field notes and images, whether a leak is detected (including distance from target), the site is unverified, or the location is quiet. All finding shall be logged using U-Collect, the Utilis dedicated data collection application.
10. For the purposes of a Utilis satellite leak detection program, the acoustic leak detection team will utilize acoustic listening and correlation equipment to ascertain that a site contains an acoustic leak signature or digital correlation profile that matches the signature/profile typical of water escaping from a water network. In addition, leaks may be verified by visually locating leaks surfacing or occurring in subsurface structures (i.e. meter boxes). For the purpose of this program, leaks may be located on transmission and distribution mains or their related appurtenances, hydrant laterals, meters, hydrants, valves, and service laterals including both utility and residential sides. Excavation of leak locations to perform final verification of leaks is the responsibility of the Client.

BEST PRACTICES – SAMPLE OF METHODOLOGY

With a team of two field technicians (one listener, one helper):

- A typical Utilis POI (single-family residential zoning) contains 1200-1600 linear feet of pipe, and around 40-50 listening points that need to be contacted by the listener to fully validate the listening point.
- A team of two may typically conduct a full POI survey (only using an amplified listening device for surveying) in a single-family residential area in approximately one hour. This may vary based on local conditions and system design; for example, a POI with accessible meters in the sidewalk may be completed more quickly than a POI in a system with only curb stops (house connection valve) outside, some of which may be difficult to locate and access.
- Following an acoustic survey, if a leak noise is heard, further pinpointing efforts (e.g., using a correlator, ground microphone, etc.) requires more effort dependent on the nature of the leak and difficulty of the setting to determine the exact leak location.
- POIs in different zoning areas and with more challenging environmental/traffic conditions will require different approaches depending on the conditions, which may take greater or less time than typical.

WORK PROCESS TIMELINE

After contract signature, Utilis will acquire the satellite image(s). Utilis must have the contract signed at least 20 days prior to the satellite coverage date in order to order an image. The date of the acquisition is

subject to technical and operational constraints of the third-party satellite operation company and may change at any time.

Before image acquisition, the client will provide Utilis with an area of interest (AOI). Unless agreed otherwise by the parties, the AOI is a designated geographical area to be surveyed using satellite within the client provided service area.

In the period prior to the image acquisition, the client will provide Utilis with a GIS layer of all available treated water lines in the AOI to be analyzed. If available, the client will also provide hydrant and valves layer for the AOI.

Unless agreed otherwise by the parties, Utilis will provide services only in the AOI overlapping with the client's provided GIS pipe system layer.

After acquiring the image and receiving the GIS pipe layers from the client, Utilis labs will prepare the full analysis and deliver the leak report. This is approximately 14 business days after the scheduled image acquisition date. Image acquisition dates may be changed by a third party (satellite operator) or due to technical constraints. Delivery date may be affected due to poor image quality according to Utilis's quality assurance standards.

Leak field inspection work can begin after the leakage report has been delivered, on an agreeable date between the parties.

Field inspection work should not begin until after Utilis has provided guidance and interpretation of the leakage report.

Unless agreed otherwise by the parties, field work with Utilis field engineer will be conducted only within the borders of the AOI and only in the areas within the client's pipe system.

Important Note: Acoustic leak detection team ("boots on the ground") is not part of this proposal. The client will decide whether to hire an external leak detection team or use their own in-house crew. The acoustic leak detection team must be certified by Utilis prior to the field work. The certification includes: 1-hour instruction about Utilis technology and data deliverables, followed by 3 hours in the field, investigating Utilis points of interest (POI) while following Utilis best practices as described in 'best practices' section above.

CLIENT PROJECT SPECIFICS

During this pilot, Utilis will survey the following area of interest* (figure 1.1) and up to 125 miles of main and service lines.

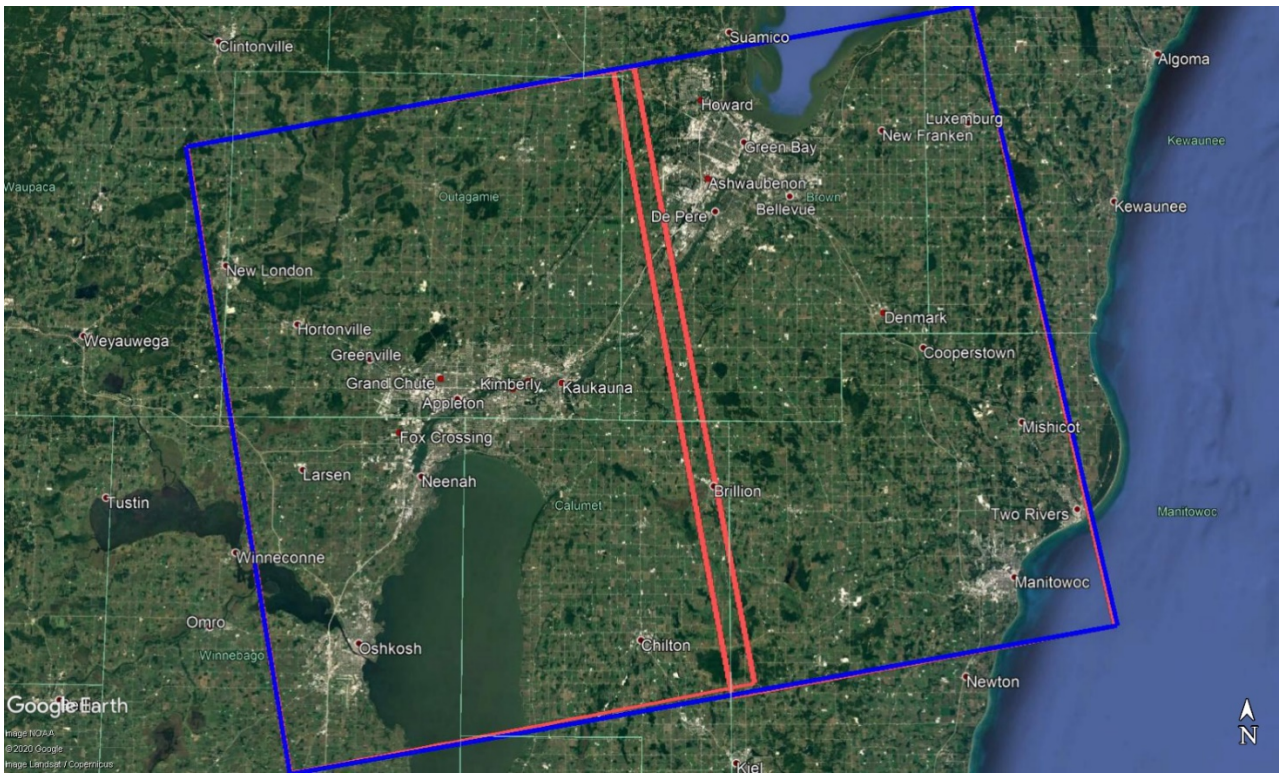


Figure 1.1: Town of Grand Chute AOI

Once Utilis receives the full GIS pipe system information, the pipe and total miles analyzed per delivery will be identified.

BENCHMARK

The Town of Grand Chute is expected to find more **background leaks** per day over the course of a field survey using Utilis technology in comparison with traditional methods. Examples of traditional methods include either deployable tech such as lift and shift loggers and correlation, or contracted leak detection professionals surveying pipe system randomly with various acoustic equipment. The path to a successful project will be achieved through the objective comparative assessment of traditional results to those of Utilis's technology.

Total Price:

Satellite Leak Detection Project Pricing	
Delivery number 1 per location	Town of Grand Chute
Estimated delivery timeline	Spring 2020
Miles of pipe analyzed per delivery	125 Miles
Utilis delivery package (GIS layer, leaks sheets, data form)	**$9.375**
U-Collect, U-View licenses	included
Data client territory setup: • Utilis GIS files set up • Dashboard, U-Collect & U-View licenses and applications set-up	included
Kick-off meeting $5,000	included
Team certification & Utilis on-site field survey support $5,000	included
Total	**$9.375**

- Balance due upon delivery (see appendix A for items included in delivery)
- Terms Net 30
- License renewal fees waived upon request
- Any points of interest produced by our algorithm will be provided, including those not associated with the pipe layers provided
- Price is based on minimum participation for 500 linear miles of pipe combined within 1 image and valid for 2020
- Same price guaranteed for 2021 if order is place by November 30, 2020 and a minimum total of 500 miles commitment within 1 image

*All travel expenses of Utilis field engineer are included

Terms

This proposal is subject to the following terms and conditions:

- Limited Warranty. Utilis warrants to customer that it has the full authority to bestow the rights granted herein. The services covered by this proposal are provided on an "AS IS" basis. Except for the above express warranty, Utilis makes no other warranties, express or implied, relating to the services covered by this proposal. Utilis does not represent or warrant that the services covered by this proposal be uninterrupted or error-free. Utilis disclaims and excludes any implied warranties of non-infringement, merchantability and/or fitness for a particular purpose.
- Exclusion of Consequential Damages. Utilis shall not be liable toward customer, or any other third party for any direct, indirect, special or consequential damages, including, without limitation, any damage or injury to business earnings, loss of data, lost profits or goodwill and/or personal injury, suffered by any person arising from and/or related with and/or connected to the services covered by this proposal, whether based on a claim or action of contract, tort, or otherwise, even if Utilis is advised of or should have been aware of the possibility of such damages.
- Limitation of Liability. In the event that, notwithstanding the terms above, Utilis is found liable for damages of any kind based on any theory of liability (including liability for negligence) connected and/or related to the services covered by this Agreement, Utilis's total liability for such damages shall not exceed the payments made by client to Utilis for the Services that gave rise to the action or claim.
- U-collect and U-view License. Without diverging from the above, the terms of use and privacy policy applicable to the U-collect and U-view licenses granted to you as part of the Service shall be as detailed in https://www.giscloud.com/terms-of-use/. *The number of licenses of secured online/offline GIS data map viewer for displaying the delivery data on a map must be set in advance. The viewer is accessible by desktop web browser or mobile application (iOS or Android). The license will automatically expire 90 days after the last scheduled delivery.*

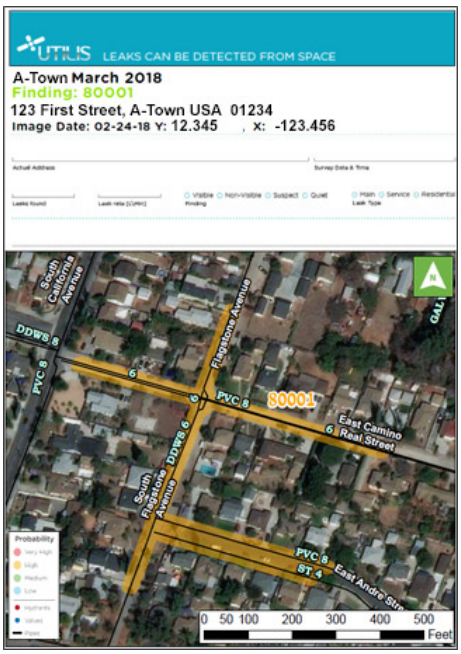
Acceptance

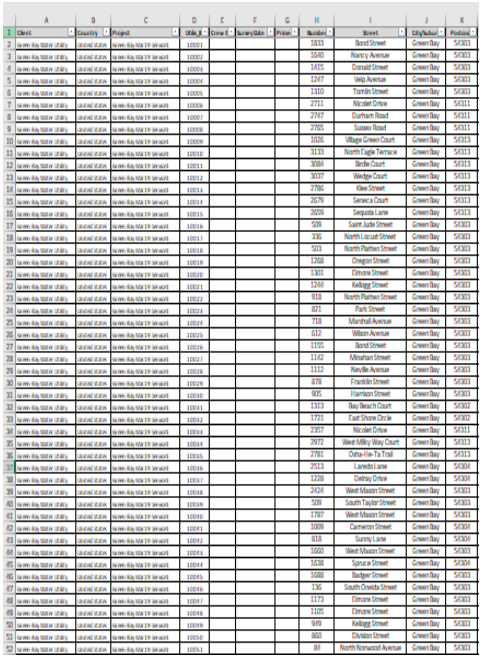
The Town of Grand Chute - Water Utility	**Utilis Inc./Ltd.**
By: _____	By: _____
Name: _____	Name: _____

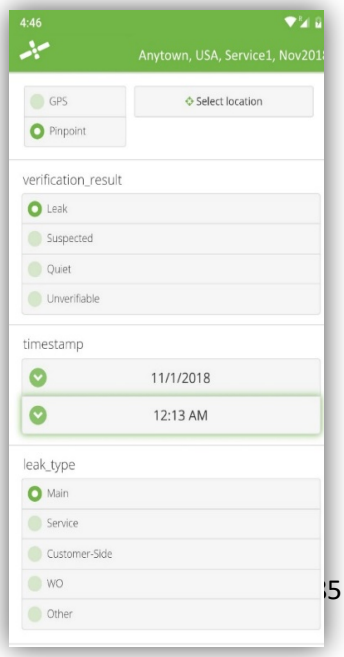
Title: _____ Title: _____

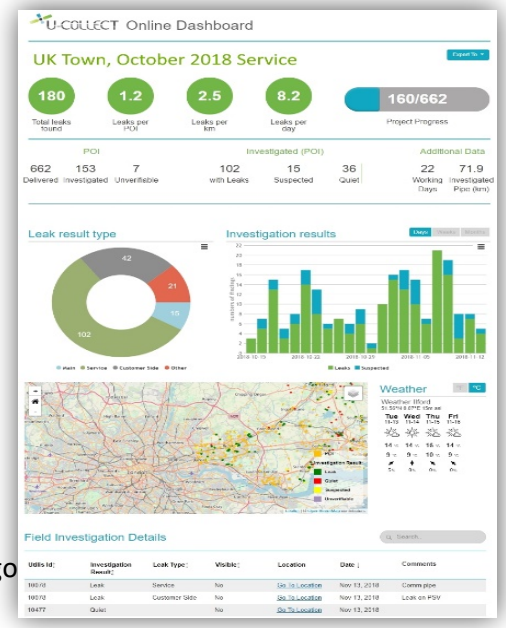
Date: _____ Date: _____

Appendix A: Sample of Deliveries (from left to right): Leak Sheet, U-View, U-Collect, and U-Collect online dashboard, data form









Grand Chute

AGENDA REQUEST
3/17/2020

TOPIC: Final Resolution SD3-01-2020 for College Avenue (CTH CA) from N. Mayflower Drive to N. Casaloma Drive as located in the Town of Grand Chute authorizing the commencement of work or improvements and special assessments for storm sewer installation and levying special assessments against abutting property owners or on an area wide basis to specially benefiting property owners under Chapter 60 and 66.0703(1)(b), et al Police Powers, Wis. Stats., 2017-18 as amended.

☐ New Business ☐ Unfinished Business ☐ Reports ☐ Closed Session ☒ Ordinance/Resolution	Meeting: Town Board
Department Reporting: Public Works	Submitted By: Katie Schwartz, P.E., Director P.W.

ISSUE: Shall the Town Board approve Final Resolution SD3-01-2020 for College Avenue (CTH CA) from N. Mayflower Drive to N. Casaloma Drive as located in the Town of Grand Chute authorizing the commencement of work or improvements and special assessments for storm sewer installation and levying special assessments against abutting property owners or on an area wide basis to specially benefiting property owners under Chapter 60 and 66.0703(1)(b), et al Police Powers, Wis. Stats., 2017-18 as amended.

BACKGROUND/ANALYSIS: On January 7, 2020, the Sanitary Commission and Town Board approved the special assessment methodology for the College Avenue street construction project, including storm sewer. The approved schedule for the street portion lists commercial use properties at 33% of the estimated Town participation cost while residential use properties are listed at 20%. The public hearing was held on February 27, 2020.

RECOMMENDATION: Staff recommends approval of SD3-01-2020.

FISCAL IMPACT: CIP/Special Assessments

ATTACHMENTS:
Attachment No. 1 - SD3-01-2020

TOWN OF GRAND CHUTE
SANITARY DISTRICT NO. 3
(OUTAGAMIE COUNTY, WISCONSIN)

FINAL RESOLUTION SD3-01-2020

W. COLLEGE AVENUE (CTH CA)
(N. Mayflower Drive to N. Casaloma Drive)

A FINAL RESOLUTION AUTHORIZING THE COMMENCEMENT OF WORK OR IMPROVEMENTS AND SPECIAL ASSESSMENTS FOR STORM SEWER INSTALLATION LOCATED ON W. COLLEGE AVENUE (CTH CA) (FROM N. MAYFLOWER DRIVE TO N. CASALOMA DRIVE), IN SECTION 30, T21N, R17E AS LOCATED IN THE TOWN OF GRAND CHUTE, AND LEVYING SPECIAL ASSESSMENTS AGAINST ABUTTING PROPERTY OWNERS OR ON AN AREA WIDE BASIS TO SPECIALLY BENEFITING PROPERTY OWNERS UNDER CHAPTER 60 AND 66.0703 WIS. STATS., 2017-2018 AS AMENDED, ET AL, AND THE SANITARY DISTRICT'S POLICE POWERS.

WHEREAS, the Board of Commissioners of the Town of Grand Chute Sanitary District No. 3, Outagamie County, Wisconsin, did pass a Preliminary Resolution SD3-09-2019, on the 15th day of October 2019, declaring its intention to exercise special assessment powers under Wisconsin Statutes, Chapters 60 and 66.0703 Wis. Stats., et al., for the construction and installation of storm sewer as shown on Exhibit "A" and the Sanitary District's engineer did file the required report specified under 66.0703(4) and (5) Wis. Stats. with the Commission Secretary, and the Commission Secretary did publish the required statutory Notice of Public Hearing on Special Assessments on the Sanitary District's website and did post said notice at the Grand Chute Town Hall, and did further mail a copy of said Notice of Public Hearing to abutting property owners or area wide property owners within the required statutory time, including a scale map of the project; and,

WHEREAS, the abutting property owners or area wide specially benefiting property owners affected by the storm sewer installation are those owners of real estate within the area described in the preceding paragraph; and,

WHEREAS, the Board of Commissioners of the Town of Grand Chute Sanitary District No. 3, Outagamie County, Wisconsin, did hold a Public Hearing at the Town of Grand Chute Town Hall, 1900 W. Grand Chute Blvd., Grand Chute, Outagamie County, Wisconsin, on the 27th day of February, 2020, at 6:00 p.m., pursuant to the published and posted Notice of Public Hearing and a mailing of said Notice to abutting property owners or area wide specially benefiting property owners, for the purpose of informing and hearing all interested persons concerning the Preliminary Resolution and the Report of the Sanitary District's engineer on the proposed improvements of storm sewer installation, and did hear all persons desiring audience at said hearing.

WHEREAS, other governmental entities, including the State of Wisconsin Department of Transportation and Outagamie County, will pay a portion of the cost of the subject improvements; and the Sanitary District wishes to impose special assessments to recover a portion of its share of the costs of said improvements.

WHEREAS, the Board of Commissioners carefully considered the initial advice of the Sanitary District's engineer concerning the schedule of assessments proposed to be levied against benefitting properties, and the Board of Commissioners carefully considered the Town of Grand Chute Special Assessment Policy, and the Board of Commissioners carefully considered unique aspects of the

project including a lack of direct access to the improved street that the storm sewers are intended to drain, higher-than-usual through traffic on the improved street that the storm sewers are intended to drain, and the fact that other governmental entities will be paying for a significant portion of the total project costs; following said considerations, the Board of Commissioners debated the schedule of assessments over the course of several meetings, before and after the Sanitary District's engineer completed the required report and before and after the public hearing; following said deliberations, the Board of Commissioners decided to deviate from the Town of Grand Chute Special Assessment Policy by assessing all affected properties less than each property would typically be assessed under said policy because the Board of Commissioners finds that it would be reasonable for the Town itself to absorb a percentage of its allocated portion of the total costs given the higher-than-usual through traffic on the improved street that the storm sewers are intended to drain, but still recognizing that the affected properties will be benefited from the subject improvements.

WHEREAS, due to the forgoing considerations, and due to the likelihood that properties zoned for commercial use are more likely to be accessed using the subject street that the storm sewers are intended to drain (and on a more frequent basis), the Board of Commissioners has decided to assess affected properties that are zoned for commercial use only 33% of the usual assessable amount and the Board of Commissioners has decided to assess affected properties that are zoned and used for multi-family residential use only 20% of the usual assessable amount; provided however, that a certain assisted living facility that is zoned for residential multi-family use shall be assessed at only 33% of the usual assessable amount because the actual use of said facility and the prospective usage of the improvements is more akin to a commercial use than a residential multi-family use.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the Town of Grand Chute Sanitary District No. 3, Outagamie County, Wisconsin, as follows:

1. That the Report of the District's engineer for said Town of Grand Chute Sanitary District No. 3 pertaining to the construction and installation of the above-described public improvements, being of storm sewer installation, and all plans and specifications thereto, as modified, is hereby approved and adopted, and the Board of Commissioners finds that the properties against which the assessments are to be levied are specially benefited by this project.

2. That the Town of Grand Chute Sanitary District No. 3 orders that the work of said improvements will be carried out in accordance with the Report of the District engineer and the exhibits referenced therein, all on file with the Commission Secretary.

3. That the costs of said improvements are to be paid or recovered all or in part by assessing the cost to the abutting property owners or to the specifically benefiting property owners on an area wide basis in accordance with the columns entitled "Storm Sewer Assessment" on the "Schedule of Assessments" attached hereto, pursuant to Chapters 60 and 66.0703, et al, Wis. Stats., 2017-2018 as amended and pursuant to the Commission's Police Powers.

4. That the Town of Grand Chute Sanitary District No. 3 will carry out the work for said improvements, all as aforementioned based upon the engineer's report.

5. That all costs and the assessments to be levied and collected upon property as shown on the Report of the Sanitary District's engineer and the attached "Schedule of Assessments" are true and correct, have been determined on a reasonable basis.

6. That the assessments shall be paid in full at the due date, or in installments as provided in Town of Grand Chute Special Assessment Policy with all deferred payments to bear interest

at the current borrowing rate for this project of the Town of Grand Chute Sanitary District No. 3 plus two (2) percent for administrative charges, which resulting sum will be charged per annum on the unpaid balance. Installments or assessments not paid when due shall bear interest from the delinquent date at the rate of eighteen (18) percent per annum.

7. The Commission Secretary of the Town of Grand Chute Sanitary District No. 3 is directed to post this Resolution and publish on the Town's website and shall further mail a copy of this Final Resolution and a statement of the final assessment against abutting properties or to area wide specifically benefiting properties, to each property owner whose name appears on the assessment schedule on file with the Commission Secretary and whose post office address is known or can, with reasonable diligence, be ascertained. This assessment may be revised, where necessary, pursuant to Chapter 66, Wis. Stats.

Date introduced, approved and adopted this ____ day of _____, 2020.

TOWN OF GRAND CHUTE
SANITARY DISTRICT NO. 3

_____
Dave Schowalter
Commission President

_____
Angie Cain
Commission Secretary

EXHIBIT "A"

COLLEGE AVENUE ASSESSMENT DESCRIPTION

Being Lots 1, 2, 3, 4, 5, 6, 7, 8, Grande Market, Lots 20, 21, 22, 23, 24, 25, 26, 27, 1st Addition to Grande Market, located in the Fractional Northwest Quarter of the Southwest Quarter and the Northeast Quarter of the Southwest Quarter of Section 30.

Georgetowne Place Condominium, Georgetowne Square Condominium and Georgetowne Square Condominium Addendum No. 3, located in the Fractional Southwest Quarter of the Southwest Quarter and the Southeast Quarter of the Southwest Quarter of Section 30;

Outlot 1, CSM 2489, Lot 1, CSM 3767, Lot 1, CSM 3798, Lot 1, CSM 7481, Lot 2, CSM 7541, Lots 2 & 3, Grande Market Center located in the Northwest Quarter of the Southeast Quarter and the Northeast Quarter of the Southeast Quarter of Section 30

Lots 1 & 2, CSM 1588, Lots 1 & 3, CSM 3696, Lot 3, CSM 4826, College Court Condominium, located in and being a part of the Southwest Quarter of the Southeast Quarter and the Southeast Quarter of the Southeast Quarter of Section 30, all being in T21N, R17E, Town of Grand Chute, Outagamie County, Wisconsin.

Beginning at the Southwest Corner of Lot 1, Grand Market; Thence 87.50 feet along the Northeasterly vison corner right-of-way line for Mayflower Drive and College Avenue (CTH CB); Thence Northerly 211.25 feet along the Easterly right-of-way line of Mayflower Drive; Thence Northeasterly 47.68 feet along the vison corner right-of-way line of Mayflower Road and Grande Market Drive; Thence 313.37 feet along the Southerly right-of-way line for Grande Market Drive; Thence along an arc of a curve 211.63 feet (248.00' radius) along the curved Southeasterly right-of-way line of Grand Market Drive; Thence 53.52 feet along the Northerly line of Lot 4, Grande Market; Thence 168.48 feet along the North line of Lot 5, Grande Market; Thence along an arc of a curve 103.67 feet (66.00' Radius) along the curved Southwesterly right-of-way line of Waterford Lane; Thence 1245.69 feet along the Southerly right-of-way line of Waterford Lane; Thence along an arc of a curve 103.67 feet (66.00' Radius) along the curved Southeasterly right-of-way line of Waterford Lane; Thence 250.95 feet along the Northerly line of Lot 26, First Addition to Grande Market; Thence 18.05 feet along the Easterly line of Lot 29 First Addition to Grande Market; Thence 306.00 feet along the Northerly line of Lot 27 First Addition to Grande Market to the Westerly right-of-way line of N. McCarthy Drive; Thence 100.00 feet along the extension of Lot 27 to the Easterly right-of-way line of N. McCarthy Drive; Thence 160.89 feet along the Easterly right-of-way line for N. McCarthy Road; Thence 155.79 feet along the Southerly right-of-way line for Grande Market Drive; Thence along an arc of a curve 200.59 feet (533.00' Radius) along the curved Southerly right-of-way line of Grande Market Drive; Thence 40.05 feet along the Southerly right-of-way line for Grande Market Drive; Thence 303.57 feet along the Westerly line for Lot 2, CSM 7481; Thence 32.11 feet along the Southwesterly line for Lot 2, CSM 7481; Thence 252.31 feet along the Southerly line for Lot 2, CSM 7481; Thence 363.95 feet along the Westerly line for Lot 2, Grande Market Center; Thence along an arc of a curve 39.77 feet (267.00' Radius) along the curved Southerly right-of-way line of Grande Market Drive; Thence continuing along an arc of a curve 120.01 feet (333.00' Radius) along the curved Southerly right-of-way line of Grande Market Drive; Thence 386.14 feet along the Southerly right-of-way line for Grande Market Drive; Thence along an arc of a curve 54.16 feet (333.00' Radius) along the curved Southerly right-of-way line of Grande Market Drive; Thence 48.89 feet along the Southerly right-of-way line for Grande Market Drive; Thence 285.00 feet along the Easterly line for Lot 3, Grande Market Center; Thence 168.03 feet along the Northerly line for Lot 2, CSM 7541; Thence 285.00 feet along the Westerly line for Lot 1, CSM 3767; Thence 562.54 feet along the Southerly right-of-way line for Grande Market Drive; Thence along an arc of a curve 216.26 feet (367.00' Radius) along the curved Southerly right-of-way line of Grande Market Drive; Thence continuing along an arc of a curve 88.48 feet (433' Radius) along the curved Southerly right-of-way line of Grande Market Drive; Thence 275.68 feet along the Westerly line for Lot 2, CSM 3798; Thence 215.47 feet along the Southerly line for Lot 2, CSM 3798 to the Westerly right-of-way line of N. Casaloma Drive; Thence 95.52 feet along the Westerly right-of-way line of N. Casaloma Drive to the Southeast Corner of Lot 1, CSM 3798; Thence 294.28 feet to the Southwesterly Corner of the College Avenue and N. Casaloma Drive Vison Corner; Thence 301.08 feet along the Westerly right-of-way line for N. Casaloma Drive; Thence 243.77 feet along the Southerly line of Lots 1 & 2, CSM 1588; Thence 66.00 feet along the Westerly right-of-way line for Lawrence Street; Thence 245.39 feet along Southerly right-of-way line for Lawrence Street to the Westerly right-of-way line of Casaloma Drive; Thence 11.00 feet along the Westerly right-of-way line of Casaloma Drive to the Northeast Corner of Lot 2, Block 2, Van Roy Subdivision; Thence 149.64 feet along the Northerly line of Lot 2, Block 2, Van Roy Subdivision; Thence 343.51 feet along the Easterly line of Lot 1, CSM 3696; Thence 20.00 along the Northerly line Lot 1 Block 1, Van Roy Subdivision; Thence 187.00 feet along the Easterly line of Lot 1, CSM 3696; Thence 391.71 feet along the Southerly line of Lot 1, CSM 3696; Thence 186.77 feet along the Southwesterly line of Lot 1, CSM 3696; Thence 33.26 feet along the Southerly line of Lot 1, CSM 3696; Thence 390.76 feet along the Westerly line of Lot 1, CSM 3696; Thence 38.76 feet along the Northerly line of Lot 2, CSM 3696; Thence 66 feet along the Easterly right-of-way line of W. Lawrence Street; Thence 1642.19 feet along the Northerly right-of-way line of W. Lawrence Street; Thence along an arc of a curve 226.18 feet (170.10' Radius) along the curved Northerly right-of-way line of W. Lawrence Street; Thence 67.56 feet to the Westerly right-of-way line for N. McCarthy Road also being the Southeast corner of Georgetowne Place Condominium; Thence 2760.55 feet along the South lines of Georgetowne Place Condominium, Georgetowne Square Condominium and Georgetowne Square Condominium No. 3 to the Southwest Corner of Georgetowne Place Condominium; thence 193.92 feet along the Easterly right-of-way line for Mayflower Drive; Thence 87.50 feet along the Southeasterly vison corner right-of-way line for Mayflower Drive and College Avenue (CTH CB); Thence 252.45 feet to the Southwest Corner of Lot 1, Grande Market also being the point of beginning .

OMNI Associates
ONE SYSTEM DRIVE
APPLETON, WI 54914
(920) 734-5000

REV. DATE DESCRIPTION

SHEET DESCRIPTION

EXHIBIT A

PROJECT MANAGER:
PROJ NO: E2246A16
DATE: 09-27-19

DRAWING NO.

1 OF 2

W COLLEGE AVENUE (CTH-CA) ASSESSMENT
TOWN OF GRAND CHUTE
OUTAGAMIE COUNTY, WISCONSIN

0 200 400
Drawing Scale

NORTH

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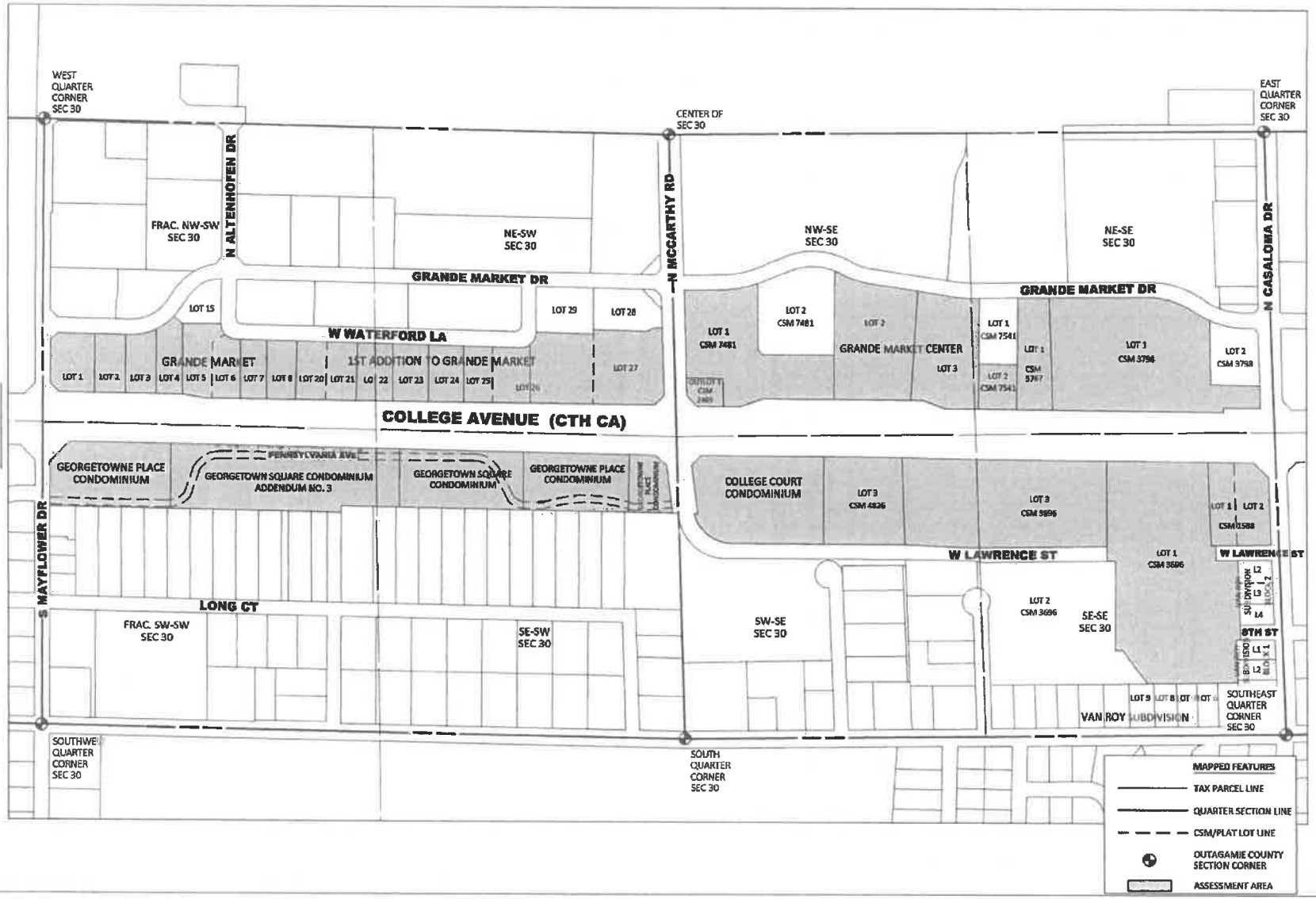
EXHIBIT "A"



NORTH

0 200 400

DRAWING SCALE

W COLLEGE AVENUE (CTH-CA) ASSESSMENT
TOWN OF GRAND CHUTE
OUTAGAMIE COUNTY, WISCONSIN

OMNI ASSOCIATES
ONE SYSTEMS DRIVE
APPLETON, WI 54914
(920) 733-6900

REV.	DATE	DESCRIPTION

SHEET DESCRIPTION

EXHIBIT A

PROJECT MANAGER:
PROJ NO: E22468A18
DATE: 09-27-19

DRAWING NO.

2 OF 2

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File Name: F:\TRJOBS\E2246A18\Civil 3D 2018\RW\Exhibit A.dwg
Plotted By: MAZARIEGOSJ on 10/07/2019 at 01:38 PM

Town of Grand Chute
CTH CA Reconstruction
Mayflower Dr to Casaloma Dr
CTH CA Theoretical Design Actual Project Costs

Street							
Item	Item Description	Quantity	Unit	Unit Price	Extension	Assessable Amount	Comment
205.0100	Excavation Common	21,610	CY	$ 7.58	$ 163,803.80	$ 163,803.80	
305.0120	Base Aggregate Dense 1 1/4-Inch	10,460	TON	$ 5.80	$ 60,668.00	$ 60,668.00	
311.0110	Breaker Run	19,920	TON	$ 11.92	$ 237,446.40	$ 237,446.40	
415.0080	Concrete Pavement 8-Inch	26,910	SY	$ 35.03	$ 942,657.30	$ 942,657.30	
601.0409	Concrete Curb & Gutter 30-Inch Type A	10,640	LF	$ 15.30	$ 162,792.00	$ 162,792.00	
602.0405	Concrete Sidewalk 4-Inch	26,530	SF	$ 4.30	$ 114,079.00	$ -	Sidewalk Not Assessed
619.1000	Mobilization	1	EACH	$ 84,500.00	$ 84,500.00	$ 84,500.00	~4.8% of Total
625.0100	Topsoil	15,335	SY	$ 1.50	$ 23,002.50	$ 23,002.50	
628.2006	Erosion Mat Urban Class I Type A	15,335	SY	$ 1.68	$ 25,762.80	$ 25,762.80	
629.0210	Fertilizer Type B	10	CWT	$ 58.00	$ 580.00	$ 580.00	
630.0140	Seeding Mixture No. 40	275	LB	$ 12.25	$ 3,368.75	$ 3,368.75	
634.0616	Posts Wood 4x6-Inch X 16-FT	4	EACH	$ 58.50	$ 234.00	$ 234.00	
637.2210	Signs Type II Reflective H	48	SF	$ 17.50	$ 840.00	$ 840.00	
646.1020	Marking Line Epoxy 4-Inch	12,855	LF	$ 1.90	$ 24,424.50	$ 24,424.50	
646.6120	Marking Stop Line Epoxy 18-Inch	44	LF	$ 21.00	$ 924.00	$ 924.00	
				Total	$ 1,845,083.05	$ 1,731,004.05	

Storm Sewer							
Item	Item Description	Quantity	Unit	Unit Price	Extension	Assessable Amount	Comment
608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	836	LF	$ 58.29	$ 48,730.44	$ 41,503.22	50% of 30-Inch Cost
608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	4,780	LF	$ 99.29	$ 474,606.20	$ 237,303.10	50% of Cost
611.0530	Manhole Covers Type J	20	EACH	$ 314.00	$ 6,280.00	$ 3,140.00	50% of Cost
611.0630	Inlet Covers Type H	38	EACH	$ 458.00	$ 17,404.00	$ 8,702.00	50% of Cost
611.2006	Manholes 6-FT Diameter	20	EACH	$ 3,793.00	$ 75,860.00	$ 37,930.00	50% of Cost
611.3230	Inlets 2x3-FT	38	EACH	$ 1,428.00	$ 54,264.00	$ 27,132.00	50% of Cost
				Total	$ 677,144.64	$ 355,710.32	

Town of Grand Chute
CTH CA Reconstruction
Mayflower Dr to Casaloma Dr
North Mayflower Theoretical Design Actual Project Costs

Street							
Item	Item Description	Quantity	Unit	Unit Price	Extension	Assessable Amount	Comment
205.0100	Excavation Common	270	CY	$ 7.58	$ 2,046.60	$ 2,046.60	
305.0120	Base Aggregate Dense 1 1/4-Inch	150	TON	$ 5.80	$ 870.00	$ 870.00	
311.0110	Breaker Run	290	TON	$ 11.92	$ 3,456.80	$ 3,456.80	
460.XXXX	HMA Pavement	120	TON	$ 72.13	$ 8,655.60	$ 8,655.60	
601.0411	Concrete Curb & Gutter 30-Inch Type D	210	LF	$ 18.10	$ 3,801.00	$ 3,801.00	
602.0405	Concrete Sidewalk 4-Inch	1,180	SF	$ 4.30	$ 5,074.00	$ -	Sidewalk Not Assessed
619.1000	Mobilization	1	EACH	$ 1,250.00	$ 1,250.00	$ 1,250.00	~4.8% of Total
625.0100	Topsoil	390	SY	$ 1.50	$ 585.00	$ 585.00	
628.2006	Erosion Mat Urban Class I Type A	390	SY	$ 1.68	$ 655.20	$ 655.20	
629.0210	Fertilizer Type B	0.2	CWT	$ 58.00	$ 11.60	$ 11.60	
630.0140	Seeding Mixture No. 40	7	LB	$ 12.25	$ 85.75	$ 85.75	
634.0616	Posts Wood 4x6-Inch X 16-FT	1	EACH	$ 58.50	$ 58.50	$ 58.50	
637.2210	Signs Type II Reflective H	8	SF	$ 17.50	$ 140.00	$ 140.00	
646.1020	Marking Line Epoxy 4-Inch	210	LF	$ 1.90	$ 399.00	$ 399.00	
646.6120	Marking Stop Line Epoxy 18-Inch	0	LF	$ 21.00	$ -	$ -	
				Total	$ 27,089.05	$ 22,015.05	

Storm Sewer							
Item	Item Description	Quantity	Unit	Unit Price	Extension	Assessable Amount	Comment
608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	0	LF	$ 58.29	$ -	$ -	
608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	0	LF	$ 99.29	$ -	$ -	
611.0530	Manhole Covers Type J	0	EACH	$ 314.00	$ -	$ -	
611.0630	Inlet Covers Type H	0	EACH	$ 458.00	$ -	$ -	
611.2006	Manholes 6-FT Diameter	0	EACH	$ 3,793.00	$ -	$ -	
611.3230	Inlets 2x3-FT	0	EACH	$ 1,428.00	$ -	$ -	
				Total	$ -	$ -	

Town of Grand Chute
CTH CA Reconstruction
Mayflower Dr to Casaloma Dr
South Mayflower Theoretical Design Actual Project Costs

Street							
Item	Item Description	Quantity	Unit	Unit Price	Extension	Assessable Amount	Comment
205.0100	Excavation Common	280	CY	$ 7.58	$ 2,122.40	$ 2,122.40	
305.0120	Base Aggregate Dense 1 1/4-Inch	160	TON	$ 5.80	$ 928.00	$ 928.00	
311.0110	Breaker Run	300	TON	$ 11.92	$ 3,576.00	$ 3,576.00	
460.XXXX	HMA Pavement	125	TON	$ 72.13	$ 9,016.25	$ 9,016.25	
-	20% HMA Pavement Credit	-	-	-	$ (1,803.25)	$ (1,803.25)	
601.0411	Concrete Curb & Gutter 30-Inch Type D	220	LF	$ 18.10	$ 3,982.00	$ 3,982.00	
602.0405	Concrete Sidewalk 4-Inch	1,100	SF	$ 4.30	$ 4,730.00	$ -	Sidewalk Not Assessed
619.1000	Mobilization	1	EACH	$ 1,200.00	$ 1,200.00	$ 1,200.00	~4.8% of Total
625.0100	Topsoil	400	SY	$ 1.50	$ 600.00	$ 600.00	
628.2006	Erosion Mat Urban Class I Type A	400	SY	$ 1.68	$ 672.00	$ 672.00	
629.0210	Fertilizer Type B	0.3	CWT	$ 58.00	$ 17.40	$ 17.40	
630.0140	Seeding Mixture No. 40	7	LB	$ 12.25	$ 85.75	$ 85.75	
634.0616	Posts Wood 4x6-Inch X 16-FT	1	EACH	$ 58.50	$ 58.50	$ 58.50	
637.2210	Signs Type II Reflective H	8	SF	$ 17.50	$ 140.00	$ 140.00	
646.1020	Marking Line Epoxy 4-Inch	220	LF	$ 1.90	$ 418.00	$ 418.00	
646.6120	Marking Stop Line Epoxy 18-Inch	11	LF	$ 21.00	$ 231.00	$ 231.00	
				Total	$ 25,974.05	$ 21,244.05	

Storm Sewer							
Item	Item Description	Quantity	Unit	Unit Price	Extension	Assessable Amount	Comment
608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	0	LF	$ 58.29	$ -	$ -	
608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	0	LF	$ 99.29	$ -	$ -	
611.0530	Manhole Covers Type J	0	EACH	$ 314.00	$ -	$ -	
611.0630	Inlet Covers Type H	0	EACH	$ 458.00	$ -	$ -	
611.2006	Manholes 6-FT Diameter	0	EACH	$ 3,793.00	$ -	$ -	
611.3230	Inlets 2x3-FT	0	EACH	$ 1,428.00	$ -	$ -	
				Total	$ -	$ -	

Town of Grand Chute
CTH CA Reconstruction
Mayflower Dr to Casaloma Dr
North McCarthy Theoretical Design Actual Project Costs

Street							
Item	Item Description	Quantity	Unit	Unit Price	Extension	Assessable Amount	Comment
205.0100	Excavation Common	1,000	CY	$ 7.58	$ 7,580.00	$ 7,580.00	
305.0120	Base Aggregate Dense 1 1/4-Inch	560	TON	$ 5.80	$ 3,248.00	$ 3,248.00	
311.0110	Breaker Run	1,060	TON	$ 11.92	$ 12,635.20	$ 12,635.20	
460.XXXX	HMA Pavement	450	TON	$ 72.13	$ 32,458.50	$ 32,458.50	
601.0411	Concrete Curb & Gutter 30-Inch Type D	590	LF	$ 18.10	$ 10,679.00	$ 10,679.00	
602.0405	Concrete Sidewalk 4-Inch	3,200	SF	$ 4.30	$ 13,760.00	$ -	Sidewalk Not Assessed
619.1000	Mobilization	1	EACH	$ 4,100.00	$ 4,100.00	$ 4,100.00	~4.8% of Total
625.0100	Topsoil	685	SY	$ 1.50	$ 1,027.50	$ 1,027.50	
628.2006	Erosion Mat Urban Class I Type A	685	SY	$ 1.68	$ 1,150.80	$ 1,150.80	
629.0210	Fertilizer Type B	0.4	CWT	$ 58.00	$ 23.20	$ 23.20	
630.0140	Seeding Mixture No. 40	12	LB	$ 12.25	$ 147.00	$ 147.00	
634.0616	Posts Wood 4x6-Inch X 16-FT	1	EACH	$ 58.50	$ 58.50	$ 58.50	
637.2210	Signs Type II Reflective H	8	SF	$ 17.50	$ 140.00	$ 140.00	
646.1020	Marking Line Epoxy 4-Inch	730	LF	$ 1.90	$ 1,387.00	$ 1,387.00	
646.6120	Marking Stop Line Epoxy 18-Inch	22	LF	$ 21.00	$ 462.00	$ 462.00	
				Total	$ 88,856.70	$ 75,096.70	

Storm Sewer							
Item	Item Description	Quantity	Unit	Unit Price	Extension	Assessable Amount	Comment
608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	0	LF	$ 58.29	$ -	$ -	
608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	0	LF	$ 99.29	$ -	$ -	
611.0530	Manhole Covers Type J	0	EACH	$ 314.00	$ -	$ -	
611.0630	Inlet Covers Type H	0	EACH	$ 458.00	$ -	$ -	
611.2006	Manholes 6-FT Diameter	0	EACH	$ 3,793.00	$ -	$ -	
611.3230	Inlets 2x3-FT	0	EACH	$ 1,428.00	$ -	$ -	
				Total	$ -	$ -	

Town of Grand Chute
CTH CA Reconstruction
Mayflower Dr to Casaloma Dr
South McCarthy Theoretical Design Actual Project Costs

Street							
Item	Item Description	Quantity	Unit	Unit Price	Extension	Assessable Amount	Comment
205.0100	Excavation Common	870	CY	$ 7.58	$ 6,594.60	$ 6,594.60	
305.0120	Base Aggregate Dense 1 1/4-Inch	490	TON	$ 5.80	$ 2,842.00	$ 2,842.00	
311.0110	Breaker Run	930	TON	$ 11.92	$ 11,085.60	$ 11,085.60	
460.XXXX	HMA Pavement	380	TON	$ 72.13	$ 27,409.40	$ 27,409.40	
601.0411	Concrete Curb & Gutter 30-Inch Type D	695	LF	$ 18.10	$ 12,579.50	$ 12,579.50	
602.0405	Concrete Sidewalk 4-Inch	3,390	SF	$ 4.30	$ 14,577.00	$ -	Sidewalk Not Assessed
619.1000	Mobilization	1	EACH	$ 3,900.00	$ 3,900.00	$ 3,900.00	~4.8% of Total
625.0100	Topsoil	1,240	SY	$ 1.50	$ 1,860.00	$ 1,860.00	
628.2006	Erosion Mat Urban Class I Type A	1,240	SY	$ 1.68	$ 2,083.20	$ 2,083.20	
629.0210	Fertilizer Type B	0.8	CWT	$ 58.00	$ 46.40	$ 46.40	
630.0140	Seeding Mixture No. 40	22	LB	$ 12.25	$ 269.50	$ 269.50	
634.0616	Posts Wood 4x6-Inch X 16-FT	1	EACH	$ 58.50	$ 58.50	$ 58.50	
637.2210	Signs Type II Reflective H	8	SF	$ 17.50	$ 140.00	$ 140.00	
646.1020	Marking Line Epoxy 4-Inch	670	LF	$ 1.90	$ 1,273.00	$ 1,273.00	
646.6120	Marking Stop Line Epoxy 18-Inch	16	LF	$ 21.00	$ 336.00	$ 336.00	
				Total	$ 85,054.70	$ 70,477.70	

Storm Sewer							
Item	Item Description	Quantity	Unit	Unit Price	Extension	Assessable Amount	Comment
608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	0	LF	$ 58.29	$ -	$ -	
608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	0	LF	$ 99.29	$ -	$ -	
611.0530	Manhole Covers Type J	0	EACH	$ 314.00	$ -	$ -	
611.0630	Inlet Covers Type H	0	EACH	$ 458.00	$ -	$ -	
611.2006	Manholes 6-FT Diameter	0	EACH	$ 3,793.00	$ -	$ -	
611.3230	Inlets 2x3-FT	0	EACH	$ 1,428.00	$ -	$ -	
				Total	$ -	$ -	

Town of Grand Chute
CTH CA Reconstruction
Mayflower Dr to Casaloma Dr
Assessment Calculation

Theoretical Design with Actual Project Bid Cost Assessment Rates

Storm Sewer (CTH CA Frontage Only)			Notes:
Theoretical SS Construction Cost	$	677,144.64	
Assessable Theoretical SS Construction Cost	$	355,710.32	
12% Engineering	$	81,257.36	12% of Theoretical Storm Sewer Cost
15% Const Oversight & Contigency	$	101,571.70	15% of Theoretical Storm Sewer Cost
5% Administration	$	42,998.68	5% of Theoretical Const, Cont, and Oversight Cost
Total Assessable Storm Sewer Cost	$	581,538.06	
Assessable Storm Sewer Frontage		7,710.35	LF
Theoretical Storm Sewer Assessment Rate	$	75.42	per LF
RMF, CR, CL Zone Maximum Rate:	$	40.00	per LF
Maximum Assesable Storm Sewer Cost	$	308,414.18	

Street - CTH CA			
Theoretical Street Construction Cost	$	1,845,083.05	
Assessable Theoretical Street Construction Cost	$	1,731,004.05	
12% Engineering	$	221,409.97	12% of Theoretical Street Cost
15% Const Oversight & Contigency	$	276,762.46	15% of Theoretical Street Cost
5% Administration	$	117,162.77	5% of Theoretical Const, Cont, and Oversight Cost
Total Assessable Street Cost	$	2,346,939.25	
Assessable Street Frontage		7,710.35	LF
Theoretical Street Assessment Rate	$	304.31	per LF

Street - Mayflower North			
Theoretical Street Construction Cost	$	27,089.05	
Assessable Theoretical Street Construction Cost	$	22,015.05	
12% Engineering	$	3,250.69	12% of Theoretical Street Cost
15% Const Oversight & Contigency	$	4,063.36	15% of Theoretical Street Cost
5% Administration	$	1,720.15	5% of Theoretical Const, Cont, and Oversight Cost
Total Assessable Street Cost	$	31,049.25	
Assessable Street Frontage		94.94	LF
Theoretical Street Assessment Rate	$	327.05	per LF

Street - Mayflower South			
Theoretical Street Construction Cost	$	25,974.05	
Assessable Theoretical Street Construction Cost	$	21,244.05	
12% Engineering	$	3,116.89	12% of Theoretical Street Cost
15% Const Oversight & Contigency	$	3,896.11	15% of Theoretical Street Cost
5% Administration	$	1,649.35	5% of Theoretical Const, Cont, and Oversight Cost
Total Assessable Street Cost	$	29,906.40	
Assessable Street Frontage		112.05	LF
Theoretical Street Assessment Rate	$	266.91	per LF

Street - McCarthy North			
Theoretical Street Construction Cost	$	88,856.70	
Assessable Theoretical Street Construction Cost	$	75,096.70	
12% Engineering	$	10,662.80	12% of Theoretical Street Cost
15% Const Oversight & Contigency	$	13,328.51	15% of Theoretical Street Cost
5% Administration	$	5,642.40	5% of Theoretical Const, Cont, and Oversight Cost
Total Assessable Street Cost	$	104,730.41	
Assessable Street Frontage		328.22	LF
Theoretical Street Assessment Rate	$	319.08	per LF

Street - McCarthy South			
Theoretical Street Construction Cost	$	85,054.70	
Assessable Theoretical Street Construction Cost	$	70,477.70	
12% Engineering	$	10,206.56	12% of Theoretical Street Cost
15% Const Oversight & Contigency	$	12,758.21	15% of Theoretical Street Cost
5% Administration	$	5,400.97	5% of Theoretical Const, Cont, and Oversight Cost
Total Assessable Street Cost	$	98,843.44	
Assessable Street Frontage		369.20	LF
Theoretical Street Assessment Rate	$	267.72	per LF

Total Assessable Project Cost	$	2,820,439.48

Actual Town Participation Costs

Construction Cost Share	$	1,415,471.68	based on bid result
Engineering Cost Share	$	82,631.00	based on 06/18/2019 cost share agreement
Construction Oversight/Contingency Cost Share	$	260,955.89	based on bid result
Administration (5%)	$	87,952.93	5% of Const, Engineering, and Oversight
Total	$	1,847,011.50	

Actual Town Participation Percentage 65.49%

CTH CA Schedule of Asssessments

Owner	Property Address		Parcel Number	Zoning	Multiple Frontage ?	CAD CTH CA Frontage	CAD Mayflower North Frontage	CAD Mayflower South Frontage	CAD McCarthy North Frontage	CAD McCarthy South Frontage	Storm Sewer Assessable Frontage	Project Assessable Storm Sewer NOTE 1	Town Participation Storm Sewer	CTH CA Street Assessable Frontage NOTE 2	Mayflower North Street Assessable Frontage NOTE 2	Mayflower South Street Assessable Frontage NOTE 2	McCarthy North Street Assessable Frontage NOTE 2	McCarthy South Street Assessable Frontage NOTE 2	Project Assessable Street	Town Participation Street	Project Assessable Total	Actual Town Participation Assessment: Total Assessment 100%	Total Assessment 33% Commercial Use	Total Assessment 20% RMF (Residential Use)	Storm Sewer Assessment 33% Commercial Use	Storm Sewer Assessment 20% RMF (Residential Use)	Street Assessment 33% Commercial Use	Street Assessment 20% RMF (Residential Use)	Remarks
JJG WISCONSIN LLC	4797 W GRANDE MARKET DR	TORRANCE, CA 90505	101127302	CR	YES	153.10	0.00	0.00	0.00	0.00	102.07	$ 4,082.87	$ 2,673.74	102.07	0.00	0.00	0.00	0.00	$ 31,061.48	$ 20,341.12	$ 35,144.35	$ 23,014.86	$ 7,594.90		$ 882.33		$ 6,712.57		
TOWN OF GRAND CHUTE		APPLETON, WI 54913	101127401	CR	YES	137.43	0.00	0.00	113.51	0.00	91.62	$ 3,664.98	$ 2,400.07	91.62	0.00	0.00	75.68	0.00	$ 52,029.57	$ 34,072.43	$ 55,694.56	$ 36,472.50	$ 12,035.93		$ 792.02		$ 11,243.90		
EDB INVESTMENTS LLC	4915 W GRANDE MARKET DR	APPLETON, WI 54914	101127413	CR	NO	168.00	0.00	0.00	0.00	0.00	168.00	$ 6,720.00	$ 4,400.70	168.00	0.00	0.00	0.00	0.00	$ 51,124.11	$ 33,479.47	$ 57,844.11	$ 37,880.17	$ 12,500.46		$ 1,452.23		$ 11,048.22		
CALNIN & GOSS INC	W LAWRENCE ST	APPLETON, WI 54913	101127508	CL	YES	341.75	0.00	0.00	0.00	0.00	258.43	$ 10,337.00	$ 6,769.36	258.43	0.00	0.00	0.00	0.00	$ 78,641.35	$ 51,499.59	$ 88,978.35	$ 58,268.95	$ 19,228.75		$ 2,233.89		$ 16,994.87		
J&Y CALNIN FAMILY LIMITED PARTNERSHIP		APPLETON, WI 54911	101127602	CL	YES	317.76	0.00	0.00	0.00	0.00	234.44	$ 9,377.40	$ 6,140.95	234.44	0.00	0.00	0.00	0.00	$ 71,340.95	$ 46,718.80	$ 80,718.35	$ 52,859.75	$ 17,443.72		$ 2,026.51		$ 15,417.21		
MERRYFIELD LLC	4705 W COLLEGE AV	APPLETON, WI 54914	101128301	CR	YES	198.44	0.00	0.00	0.00	0.00	132.30	$ 5,292.00	$ 3,465.55	132.30	0.00	0.00	0.00	0.00	$ 40,260.22	$ 26,365.07	$ 45,552.22	$ 29,830.62	$ 9,844.11		$ 1,143.63		$ 8,700.47		
R&J ENTERPRISES OF APPL LLC	4898 W LAWRENCE ST	LARSEN, WI 54947	101128302	CL	YES	570.42	0.00	0.00	0.00	0.00	487.10	$ 19,483.80	$ 12,759.29	487.10	0.00	0.00	0.00	0.00	$ 148,227.96	$ 97,069.53	$ 167,711.76	$ 109,828.82	$ 36,243.51		$ 4,210.57		$ 32,032.95		
US BANK	4731 W LAWRENCE ST	IRVING, TX 75039	101128400	CR	YES	443.26	0.00	0.00	0.00	0.00	359.94	$ 14,397.40	$ 9,428.38	359.94	0.00	0.00	0.00	0.00	$ 109,531.88	$ 71,728.76	$ 123,929.28	$ 81,157.14	$ 26,781.86		$ 3,111.36		$ 23,670.49		
GRANDE MARKET 5793	5793 W GRANDE MARKET DR	APPLETON, WI 54914	102425300	CL	YES	174.52	142.40	0.00	0.00	0.00	116.35	$ 4,654.10	$ 3,047.81	116.35	94.94	0.00	0.00	0.00	$ 66,456.49	$ 43,520.13	$ 71,110.59	$ 46,567.95	$ 15,367.42		$ 1,005.78		$ 14,361.64		
GRANDE MARKET 5793	5765 W GRANDE MARKET DR	APPLETON, WI 54914	102425400	CL	YES	134.03	0.00	0.00	0.00	0.00	89.36	$ 3,574.31	$ 2,340.70	89.36	0.00	0.00	0.00	0.00	$ 27,192.49	$ 17,807.45	$ 30,766.80	$ 20,148.15	$ 6,648.89		$ 772.43		$ 5,876.46		
GRANDE MARKET 5793	5733 W GRANDE MARKET DR	APPLETON, WI 54914	102425500	CL	YES	134.04	0.00	0.00	0.00	0.00	89.36	$ 3,574.58	$ 2,340.87	89.36	0.00	0.00	0.00	0.00	$ 27,194.52	$ 17,808.78	$ 30,769.09	$ 20,149.65	$ 6,649.38		$ 772.49		$ 5,876.90		
JBG INVESTMENTS LLC	5697 W GRANDE MARKET DR	RACINE, WI 53403	102425600	CL	YES	115.02	0.00	0.00	0.00	0.00	76.68	$ 3,067.35	$ 2,008.71	76.68	0.00	0.00	0.00	0.00	$ 23,335.67	$ 15,281.75	$ 26,403.02	$ 17,290.46	$ 5,705.85		$ 662.87		$ 5,042.98		
MIDWEST PROPERTIES	5643 W WATERFORD LA	GREENVILLE, WI 54942	102425700	CL	YES	251.00	0.00	0.00	0.00	0.00	167.68	$ 6,707.00	$ 4,392.19	167.68	0.00	0.00	0.00	0.00	$ 51,025.21	$ 33,414.70	$ 57,732.21	$ 37,806.89	$ 12,476.27		$ 1,449.42		$ 11,026.85		
BMK PROPERTIES LLC	5605 W WATERFORD LA	APPLETON, WI 54913	102425900	CL	YES	115.03	0.00	0.00	0.00	0.00	76.69	$ 3,067.62	$ 2,008.88	76.69	0.00	0.00	0.00	0.00	$ 23,337.70	$ 15,283.08	$ 26,405.32	$ 17,291.96	$ 5,706.35		$ 662.93		$ 5,043.42		
BMK PROPERTIES LLC	5597 W WATERFORD LA	APPLETON, WI 54913	102426000	CL	YES	133.03	0.00	0.00	0.00	0.00	88.69	$ 3,547.64	$ 2,323.23	88.69	0.00	0.00	0.00	0.00	$ 26,989.60	$ 17,674.59	$ 30,537.25	$ 19,997.82	$ 6,599.28		$ 766.67		$ 5,832.61		
WATERFORD 5583	5583 W WATERFORD LA	APPLETON, WI 54914	102430700	CL	YES	266.06	0.00	0.00	0.00	0.00	182.74	$ 7,309.40	$ 4,786.68	182.74	0.00	0.00	0.00	0.00	$ 55,608.12	$ 36,415.90	$ 62,917.52	$ 41,202.58	$ 13,596.85		$ 1,579.60		$ 12,017.25		
WATERFORD 5517	5553 W WATERFORD LA	APPLETON, WI 54914	102430900	CL	YES	155.03	0.00	0.00	0.00	0.00	103.36	$ 4,134.34	$ 2,707.44	103.36	0.00	0.00	0.00	0.00	$ 31,453.04	$ 20,597.55	$ 35,587.38	$ 23,304.99	$ 7,690.65		$ 893.46		$ 6,797.19		
WATERFORD 5517	5517 W WATERFORD LA	APPLETON, WI 54914	102431000	CL	YES	155.03	0.00	0.00	0.00	0.00	103.36	$ 4,134.34	$ 2,707.44	103.36	0.00	0.00	0.00	0.00	$ 31,453.04	$ 20,597.55	$ 35,587.38	$ 23,304.99	$ 7,690.65		$ 893.46		$ 6,797.19		
WATERFORD 5497	5497 W WATERFORD LA	APPLETON, WI 54914	102431100	CL	YES	155.03	0.00	0.00	0.00	0.00	103.36	$ 4,134.34	$ 2,707.44	103.36	0.00	0.00	0.00	0.00	$ 31,453.04	$ 20,597.55	$ 35,587.38	$ 23,304.99	$ 7,690.65		$ 893.46		$ 6,797.19		
WATERFORD 5471	5471 W WATERFORD LA	APPLETON, WI 54914	102431200	CL	YES	291.22	0.00	0.00	0.00	0.00	207.90	$ 8,315.80	$ 5,445.74	207.90	0.00	0.00	0.00	0.00	$ 63,264.56	$ 41,429.85	$ 71,580.36	$ 46,875.59	$ 15,468.94		$ 1,797.09		$ 13,671.85		
MCCARRTHY 119	119 N MC CARTHY RD	APPLETON, WI 54914	102431400	CL	YES	589.96	0.00	0.00	234.61	0.00	506.64	$ 20,265.40	$ 13,271.13	506.64	0.00	0.00	156.41	0.00	$ 204,083.39	$ 133,647.39	$ 224,348.79	$ 146,918.52	$ 48,483.11		$ 4,379.47		$ 44,103.64		
AGREE GRAND CHUTE WI, LLC	4705 W GRANDE MARKET DR	BLOOMFIELD HILLS, MI 48304	102437300	CR	YES	883.69	0.00	0.00	0.00	0.00	800.37	$ 32,014.60	$ 20,965.29	800.37	0.00	0.00	0.00	0.00	$ 243,559.20	$ 159,498.78	$ 275,573.80	$ 180,464.07	$ 59,553.14		$ 6,918.55		$ 52,634.60		
APPLETON HS LLC	5155 W GRANDE MARKET DR	JACKSONVILLE, IL 62650	102525201	CR	YES	488.96	0.00	0.00	144.19	0.00	405.64	$ 16,225.40	$ 10,625.47	405.64	0.00	0.00	96.13	0.00	$ 154,112.77	$ 100,923.30	$ 170,338.17	$ 111,548.77	$ 36,811.10		$ 3,506.41		$ 33,304.69		
HEART & VASCULAR OF WI PROPERTIES LLC	5045 W GRANDE MARKET DR	APPLETON, WI 54913	102525300	CR	YES	335.00	0.00	0.00	0.00	0.00	251.68	$ 10,067.00	$ 6,592.54	251.68	0.00	0.00	0.00	0.00	$ 76,587.26	$ 50,154.44	$ 86,654.26	$ 56,746.98	$ 18,726.50		$ 2,175.54		$ 16,550.96		
J&Y CALNIN FAMILY LTD PRTNRSHP	W GRANDE MARKET DR	APPLETON, WI 54913	102525400	CR	YES	303.60	0.00	0.00	0.00	0.00	220.28	$ 8,811.00	$ 5,770.03	220.28	0.00	0.00	0.00	0.00	$ 67,031.92	$ 43,896.96	$ 75,842.92	$ 49,666.99	$ 16,390.11		$ 1,904.11		$ 14,486.00		
SH FORTYNINE PROPCO APPLETON LLC	5800 PENNSYLVANIA AV	IRVINE, CA 92614	103050100	CR	YES	482.95	0.00	168.06	0.00	0.00	399.63	$ 15,985.00	$ 10,468.04	399.63	0.00	112.05	0.00	0.00	$ 151,516.35	$ 99,222.99	$ 167,501.35	$ 109,691.00	$ 36,198.04		$ 3,454.45		$ 32,743.59		Note 3
HAHNEMAN, DALE R	5649 PENNSYLVANIA AV	APPLETON, WI 54914	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
APPLETON VALLEY HOMES	5613 PENNSYLVANIA AV	KAUKAUNA, WI 54130	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
APPLETON VALLEY HOMES	5609 PENNSYLVANIA AV	KAUKAUNA, WI 54130	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
APPLETON VALLEY HOMES	5605 PENNSYLVANIA AV	KAUKAUNA, WI 54130	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
APPLETON VALLEY HOMES	5597 PENNSYLVANIA AV	KAUKAUNA, WI 54130	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
APPLETON VALLEY HOMES	5593 PENNSYLVANIA AV	KAUKAUNA, WI 54130	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
APPLETON VALLEY HOMES	5589 PENNSYLVANIA AV	APPLETON, WI 54952	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
APPLETON VALLEY HOMES	5577 PENNSYLVANIA AV	KAUKAUNA, WI 54130	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
APPLETON VALLEY HOMES	5573 PENNSYLVANIA AV	KAUKAUNA, WI 54130	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
APPLETON VALLEY HOMES	5569 PENNSYLVANIA AV	KAUKAUNA, WI 54130	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
NOEL, PAUL J	5561 PENNSYLVANIA AV	APPLETON, WI 54914	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
RACHUBINSKI, ASHLEY	5557 PENNSYLVANIA AV	APPLETON, WI 54914	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
ZWICKER FAM TRST, DAVID	5553 PENNSYLVANIA AV	APPLETON, WI 54914	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
TRAUTSCH FAM LEGACY TRST	5549 PENNSYLVANIA AV	APPLETON, WI 54914	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
JENSEMA, MARK G	5537 PENNSYLVANIA AV	APPLETON, WI 54914	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
MILLER, STEVEN T	5533 PENNSYLVANIA AV	APPLETON, WI 54914	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
DOWNEY, ERIN E	5529 PENNSYLVANIA AV	APPLETON, WI 54913	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
RABAS, NEAL	5525 PENNSYLVANIA AV	APPLETON, WI 54914	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
BANN, DUANE E	5653 PENNSYLVANIA AV	APPLETON, WI 54914	103050202	RMF	YES	52.89	0.00	0.00	0.00	0.00	35.26	$ 1,410.47	$ 923.67	35.26	0.00	0.00	0.00	0.00	$ 10,730.51	$ 7,027.05	$ 12,140.98	$ 7,950.72		$ 1,590.14		$ 184.73		$ 1,405.41
APPLETON VALLEY HOMES		KAUKAUNA, WI 54130	103050301	RMF	YES	452.96	0.00	0.00	0.00	0.00	369.64	$ 14,785.40	$ 9,682.46	369.64	0.00	0.00	0.00	0.00	$ 112,483.69	$ 73,661.81	$ 127,269.09	$ 83,344.27		$ 16,668.85		$ 1,936.49		$ 14,732.36
APPLETON VALLEY HOMES	5330 PENNSYLVANIA AV	KAUKAUNA, WI 54130	103050400	CL	YES	112.88	0.00	0.00	0.00	262.38	75.26	$ 3,010.28	$ 1,971.33	75.26	0.00	0.00	0.00	179.06	$ 22,901.50	$ 14,997.43	$ 25,911.78	$ 16,968.76	$ 5,599.69		$ 650.54		$ 4,949.15		
COLLEGE COURT REAL ESTATE LLC	140 S MC CARTHY RD	GREEN BAY , WI 54304	103098400	CL	YES	113.69	0.00	0.00	0.00	57.04	75.80	$ 3,031.88	$ 1,985.48	75.80	0.00	0.00	0.00	38.03	$ 23,065.83	$ 15,105.04	$ 26,097.72	$ 17,090.52	$ 5,639.87		$ 655.21		$ 4,984.66		
COLLEGE COURT REAL ESTATE LLC	160 S MC CARTHY RD	GREEN BAY, WI 54304	103098400	CL	YES	113.69	0.00	0.00	0.00	57.04	75.80	$ 3,031.88	$ 1,985.48	75.80	0.00	0.00	0.00	38.03	$ 23,065.83	$ 15,105.04	$ 26,097.72	$ 17,090.52	$ 5,639.87		$ 655.21		$ 4,984.66		
813 HOLDINGS LLC	230 S MC CARTHY RD	MENASHA, WI 54956	103098400	CL	YES	113.69	0.00	0.00	0.00	57.04	75.80	$ 3,031.88	$ 1,985.48	75.80	0.00	0.00	0.00	38.03	$ 23,065.83	$ 15,105.04	$ 26,097.72	$ 17,090.52	$ 5,639.87		$ 655.21		$ 4,984.66		
COLLEGE COURT REAL ESTATE LLC	200 S MC CARTHY RD	GREEN BAY, WI 54304	103098400	CL	YES	113.69	0.00	0.00	0.00	57.04	75.80	$ 3,031.88	$ 1,985.48	75.80	0.00	0.00	0.00	38.03	$ 23,065.83	$ 15,105.04	$ 26,097.72	$ 17,090.52	$ 5,639.87		$ 655.21		$ 4,984.66		
PAMPERIN RENTALS III LLC	120 S MC CARTHY RD	GREEN BAY, WI 54304	103098400	CL	YES	113.69	0.00	0.00	0.00	57.04	75.80	$ 3,031.88	$ 1,985.48	75.80	0.00	0.00	0.00	38.03	$ 23,065.83	$ 15,105.04	$ 26,097.72	$ 17,090.52	$ 5,639.87		$ 655.21		$ 4,984.66		
BRAZIL, DALE G	5404 PENNSYLVANIA AV	APPLETON, WI 54914	103101600	RMF	YES	58.93	0.00	0.00	0.00	0.00	39.29	$ 1,571.55	$ 1,029.15	39.29	0.00	0.00	0.00	0.00	$ 11,955.93	$ 7,829.54	$ 13,527.47	$ 8,858.69		$ 1,771.74		$ 205.83		$ 1,565.91
ANDERSON, KAREN	5463 PENNSYLVANIA AV	APPLETON, WI 54914	103101600	RMF	YES	58.93	0.00	0.00	0.00	0.00	39.29	$ 1,571.55	$ 1,029.15	39.29	0.00	0.00	0.00	0.00	$ 11,955.93	$ 7,829.54	$ 13,527.47	$ 8,858.69		$ 1,771.74		$ 205.83		$ 1,565.91
HYNEK, CLAIRE A	5471 PENNSYLVANIA AV	APPLETON, WI 54913	103101600	RMF	YES	58.93	0.00	0.00	0.00	0.00	39.29	$ 1,571.55	$ 1,029.15	39.29	0.00	0.00	0.00	0.00	$ 11,955.93	$ 7,829.54	$ 13,527.47	$ 8,858.69		$ 1,771.74		$ 205.83		$ 1,565.91
SIGLER, SUSAN A	5481 PENNSYLVANIA AV	APPLETON, WI 54914	103101600	RMF	YES	58.93	0.00	0.00	0.00	0.00	39.29	$ 1,571.55	$ 1,029.15	39.29	0.00	0.00	0.00	0.00	$ 11,955.93	$ 7,829.54	$ 13,527.47	$ 8,858.69		$ 1,771.74		$ 205.83		$ 1,565.91
REMINGTON, DENNIS D	5485 PENNSYLVANIA AV	APPLETON, WI 54914	103101600	RMF	YES	58.93	0.00	0.00	0.00	0.00	39.29	$ 1,571.55	$ 1,029.15	39.29	0.00	0.00	0.00	0.00	$ 11,955.93	$ 7,829.54	$ 13,527.47	$ 8,858.69		$ 1,771.74		$ 205.83		$ 1,565.91
GOGGINS, TIMOTHY	5495 PENNSYLVANIA AV	OCONOMOWOC, WI 53066	103101600	RMF	YES	58.93	0.00	0.00	0.00	0.00	39.29	$ 1,571.55	$ 1,029.15	39.29	0.00	0.00	0.00	0.00	$ 11,955.93	$ 7,829.54	$ 13,527.47	$ 8,858.69		$ 1,771.74		$ 205.83		$ 1,565.91
FINCH, RICHARD	5501 PENNSYLVANIA AV	APPLETON, WI 54914	103101600	RMF	YES	58.93	0.00	0.00	0.00	0.00	39.29	$ 1,571.55	$ 1,029.15	39.29	0.00	0.00	0.00	0.00	$ 11,955.93	$ 7,829.54	$ 13,527.47	$ 8,858.69		$ 1,771.74		$ 205.83		$ 1,565.91
STYRANEC, MICHAEL J	5513 PENNSYLVANIA AV	APPLETON, WI 54914	103101600	RMF	YES	58.93	0.00	0.00	0.00	0.00	39.29	$ 1,571.55	$ 1,029.15	39.29	0.00	0.00	0.00	0.00	$ 11,955.93	$ 7,829.54	$ 13,527.47	$ 8,858.69		$ 1,771.74		$ 205.83		$ 1,565.91
JAMES/CATHERINE ANSCHUTZ I T	5517 PENNSYLVANIA AV	APPLETON, WI 54914	103101600	RMF	YES	58.93	0.00	0.00	0.00	0.00	39.29	$ 1,571.55	$ 1,029.15	39.29	0.00	0.00	0.00	0.00	$ 11,955.93	$ 7,829.54	$ 13,527.47	$ 8,858.69		$ 1,771.74		$ 205.83		$ 1,565.91
HILLEY, VIRGINIA	5400 PENNSYLVANIA AV	APPLETON, WI 54914	103101600	RMF	YES	58.93	0.00	0.00	0.00	0.00	39.29	$ 1,571.55	$ 1,029.15	39.29	0.00	0.00	0.00	0.00	$ 11,955.93	$ 7,829.54	$ 13,527.47	$ 8,858.69		$ 1,771.74		$ 205.83		$ 1,565.91
				Totals		10,221.86	142.40	168.06	492.31	547.58	7,710.35	$ 308,414.18	$ 201,970.13	7,710.35	94.94	112.05	328.22	369.20	$ 2,512,025.30	$ 1,645,041.37	$ 2,820,439.48	$ 1,847,011.50	$ 502,925.47	$ 64,598.99	$ 54,267.32	$ 7,504.74	$ 448,658.15	$ 57,094.24	

Cost Summary		Cost Summary		Cost Summary	
Assessed Total	$ 567,524.45	Assessed Total	$ 61,772.06	Assessed Total	$ 505,752.39
Town	$ 1,279,487.05	Town	$ 140,198.07	Town	$ 1,139,288.97

NOTE 1: Storm sewer not assessed on McCarthy and Mayflower as those roadways have existing storm sewer systems
NOTE 2: On lots with multiple frontage, assessible street and storm frontage = (2/3rds of first 250' along each roadway) + 100% of remaining frontage over 250'
Note 3: Assisted Living Facility- Zoned RMF but assesesed as Comercial

Grand Chute

AGENDA REQUEST
3/17/2020

TOPIC: Final Resolution SD3-03-2020 for Woodman Drive Urbanization (Westhill Boulevard to Bluemound Drive) as located in the Town of Grand Chute authorizing the commencement of work or improvements and special assessments for storm sewer installation and levying special assessments against abutting property owners or on an area wide basis to specially benefitting property owners under Chapter 60 and 66.0703(1)(b), et al Police Powers, Wis. Stats., 2017-18 as amended.

☐ New Business ☐ Unfinished Business ☐ Reports ☐ Closed Session ☒ Ordinance/Resolution	Meeting: Sanitary District 3
Department Reporting: Public Works	Submitted By: Katie Schwartz, P.E., Director P.W.

ISSUE: Shall the Sanitary Commission approve Final Resolution SD3-03-2020 for Woodman Drive Urbanization (Westhill Boulevard to Bluemound Drive) as located in the Town of Grand Chute authorizing the commencement of work or improvements and special assessments for storm sewer installation and levying special assessments against abutting property owners or on an area wide basis to specially benefitting property owners under Chapter 60 and 66.0703(1)(b), et al Police Powers, Wis. Stats., 2017-18 as amended.

BACKGROUND/ANALYSIS: On November 19, 2019, the Sanitary Commission and Town Board approved the special assessment methodology for the Woodman Drive Urbanization project, including storm sewer. The approved schedule for the street portion is based on 50% frontage and 50% trip generation while the storm sewer assessment is based on frontage. The public hearing was held on March 3, 2020.

RECOMMENDATION: Staff recommends approval of SD3-03-2020

FISCAL IMPACT: CIP/Special Assessments

ATTACHMENTS:
Attachment No. 1 - SD3-03-2020

TOWN OF GRAND CHUTE
SANITARY DISTRICT NO. 3
(OUTAGAMIE COUNTY, WISCONSIN)

FINAL RESOLUTION SD3-03-2020

WOODMAN DRIVE URBANIZATION
(Westhill Boulevard to Bluemound Drive)

A FINAL RESOLUTION AUTHORIZING THE COMMENCEMENT OF WORK OR IMPROVEMENTS AND SPECIAL ASSESSMENTS FOR STORM SEWER INSTALLATION LOCATED ON WOODMAN DRIVE (WESTHILL BOULEVARD TO BLUEMOUND DRIVE), IN SECTION 29, T21N, R17E AS LOCATED IN THE TOWN OF GRAND CHUTE, AND LEVYING SPECIAL ASSESSMENTS AGAINST ABUTTING PROPERTY OWNERS OR ON AN AREA WIDE BASIS TO SPECIALLY BENEFITING PROPERTY OWNERS UNDER CHAPTER 60 AND 66.0703WIS. STATS., 2017-2018 AS AMENDED, ET AL., AND THE SANITARY DISTRICT'S POLICE POWER.

WHEREAS, the Board of Commissioners of the Town of Grand Chute Sanitary District No. 3, Outagamie County, Wisconsin, did pass a Preliminary Resolution SD3-10-2019, on the 3rd day of December 2019, declaring its intention to exercise special assessment powers under Chapter 60 and 66.0703 Wis. Stats. , et al., for the construction and installation of storm sewer as shown on Exhibit "A" and the Sanitary District's engineer did file the required report specified under 66.0703(4) and (5) Wis. Stats. with the Commission Secretary, and the Commission Secretary did publish the required statutory Notice of Public Hearing on Special Assessments on the Sanitary District's and/or Town's website and did post said notice at the Grand Chute Town Hall, and did further mail a copy of said Notice of Public Hearing to abutting property owners or area wide property owners within the required statutory time, including a scale map of the project; and,

WHEREAS, the abutting property owners or area wide specifically benefiting property owners affected by the storm sewer installation are those owners of real estate within the area described in the preceding paragraph; and,

WHEREAS, the Board of Commissioners of the Town of Grand Chute Sanitary District No. 3, Outagamie County, Wisconsin, did hold a Public Hearing at the Town of Grand Chute Town Hall, 1900 W. Grand Chute Blvd., Grand Chute, Outagamie County, Wisconsin, on the 3rd day of March, 2020, at 6:30 p.m., pursuant to the published and posted Notice of Public Hearing and a mailing of said Notice to abutting property owners or area wide specially benefiting property owners, for the purpose of informing and hearing all interested persons concerning the Preliminary Resolution and the report of the Sanitary District's engineers on the proposed improvements of storm sewer installation, and did hear all persons desiring audience at said hearing.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the Town of Grand Chute Sanitary District No. 3, Outagamie County, Wisconsin, as follows:

1. That the report of the Sanitary District's engineers for said Town of Grand Chute Sanitary District No. 3 pertaining to the construction and installation of the above-described public improvements, being of storm sewer installation, and all plans and specifications incorporated by reference therein, are hereby approved and adopted, and the Board of Commissioners finds that that the properties against which the assessments are to be levied are specially benefited by this project.

2. That the Town of Grand Chute Sanitary District No. 3 is hereby directed and delegated to carry out the work of said improvements in accordance with the report of the Sanitary District's engineers on file with the Commission Secretary.

3. That the costs of said improvements are to be paid or recovered all or in part by assessing the cost to the abutting property owners or to the specifically benefiting property owners on an area wide basis in accordance with the report of the Sanitary District's engineer and the schedule of assessments incorporated therein by reference, specifically the column of said schedule of assessments entitled "Storm Sewer Frontage Assessment" under Chapters 60 and 66.0703, et al., Wis. Stats., 2017-2018 as amended, and pursuant to the Sanitary District's police powers.

4. That all costs and the assessments to be levied and collected upon property as shown on the Sanitary District's engineer's report and the schedule of assessments incorporated therein are true and correct, have been determined on a reasonable basis, and are hereby confirmed..

5. That the assessments shall be paid in full on or before the due date, or in installments as provided in Town of Grand Chute Special Assessment Policy, with all deferred payments to bear interest at the current borrowing rate for this project of the Town of Grand Chute Sanitary District No. 3 plus two (2) percent for administrative charges, which resulting sum will be charged per annum on the unpaid balance. Installments or assessments not paid when due shall bear interest from the delinquent date at the rate of eighteen (18) percent per annum.

6. The Commission Secretary of the Town of Grand Chute Sanitary District No. 3 is directed to post this Resolution and publish on the Sanitary District's and/or Town's website and shall further mail a copy of this Final Resolution and a statement of the final assessment against abutting properties or to area wide specifically benefiting properties, to each property owner whose name appears on the assessment schedule on file with the Commission Secratary and whose post office address is known or can, with reasonable diligence, be ascertained. This assessment may be revised, where necessary, pursuant to Chapters 60 and 66, Wis. Stats.

Date introduced, approved and adopted this ____ day of _____, 2020.

TOWN OF GRAND CHUTE
SANITARY DISTRICT NO. 3

_____
Dave Schowalter
Commission President

_____
Angie Cain
Commission Secretary

EXHIBIT A

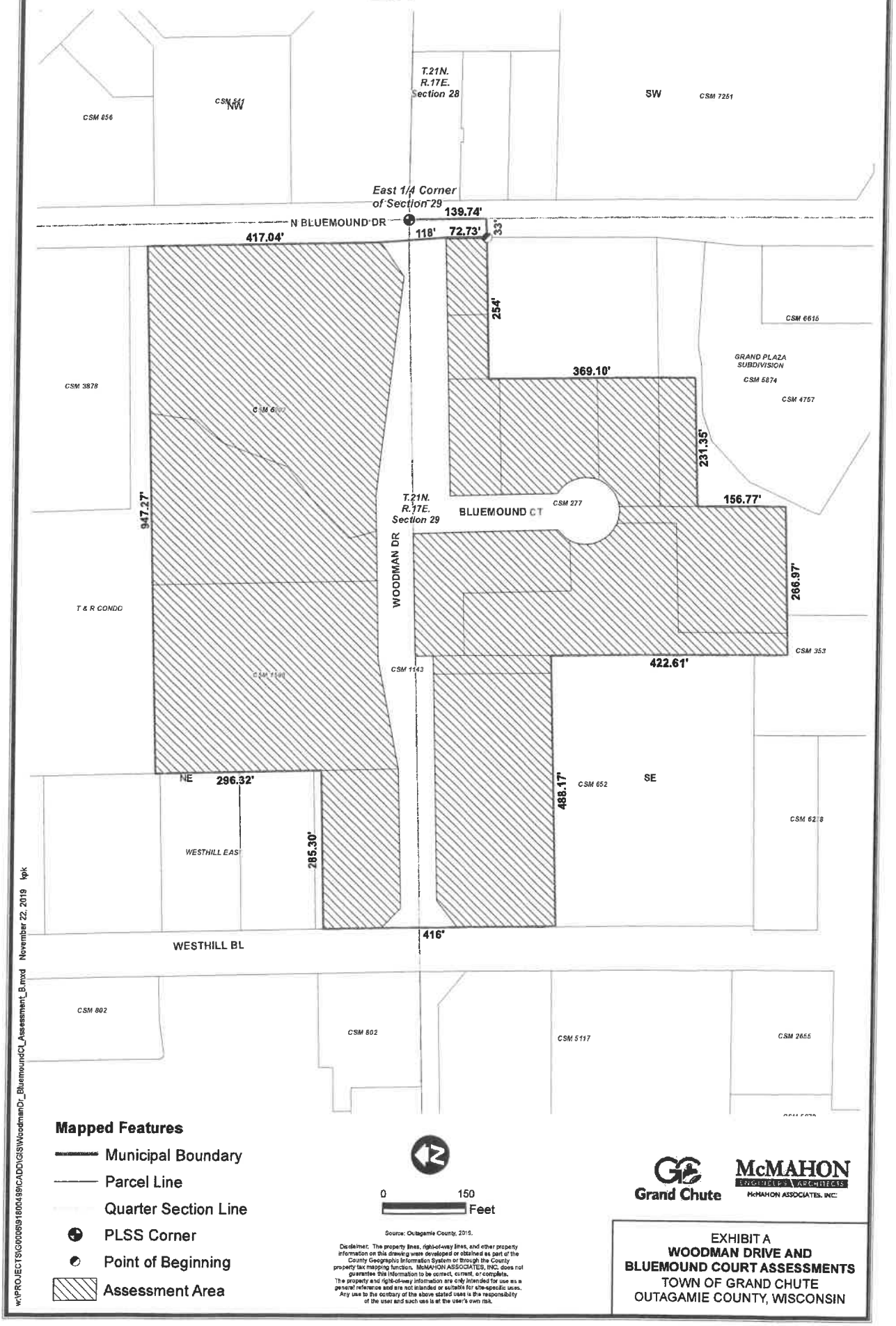
T.21N.
R.17E.
Section 28
NW
SW
CSM 856
CSM 641
CSM 7251
East 1/4 Corner
of Section 29
N BLUEMOUND DR
139.74'
118'
72.73'
33'
417.04'
254'
CSM 6615
GRAND PLAZA
SUBDIVISION
CSM 5874
CSM 4757
CSM 3878
369.10'
231.35'
156.77'
947.27'
T.21N.
R.17E.
Section 29
BLUEMOUND CT
CSM 277
WOODMAN DR
266.97'
T & R CONDO
CSM 353
422.61'
CSM 1143
NE
296.32'
488.17'
CSM 652
SE
WESTHILL EAST
285.30'
416'
WESTHILL BL
CSM 802
CSM 802
CSM 5117
CSM 2655
Mapped Features
Municipal Boundary
Parcel Line
Quarter Section Line
PLSS Corner
Point of Beginning
Assessment Area
0
150
Feet
Source: Outagamie County, 2019.
Disclaimer: The property lines, right-of-way lines, and other property information on this drawing were developed or obtained as part of the County Geographic Information System or through the County property tax mapping function. McMAHON ASSOCIATES, INC. does not guarantee this information to be correct, current, or complete.
The property and right-of-way information are only intended for use as a general reference and are not intended or suitable for site-specific uses. Any use to the contrary of the above stated uses is the responsibility of the user and such use is at the user's own risk.
Grand Chute
McMAHON
ENGINEERS ARCHITECTS
McMAHON ASSOCIATES, INC.
EXHIBIT A
WOODMAN DRIVE AND
BLUEMOUND COURT ASSESSMENTS
TOWN OF GRAND CHUTE
OUTAGAMIE COUNTY, WISCONSIN
w:\PROJECTS\G0058\918005495\CADD\GIS\WoodmanDr_BluemoundCt_Assessment_B.mxd November 22, 2019 lpk

EXHIBIT A
ASSESSMENT DESCRIPTION
Woodman Final Resolution
McM. No. G0006-9-18-00499.10

All of Parcels 1, 2, 3, and 4 of Certified Survey Map 277, part of Lots 1 and 2 of Certified Survey Map 652, Lot 1 of Certified Survey Map 1598, Lot 1 and Outlot 1 of Certified Survey Map 6202, part of Lots 1 and 2 of Westhill East (Plat) and a part of the Southeast ¼ of the Northeast ¼ and the Northeast ¼ of the Southeast ¼ of Section 29, T21N, R17E, Town of Grand Chute, Outagamie County, Wisconsin.

Commencing at the East ¼ corner of said Section 29,
Thence South 139.74 feet to the extended South lot line of said Parcel 1 Certified Survey Map 277;
Thence West 33 feet to the Southeast corner of said parcel 1 and the Point of Beginning;
Thence West 254 feet along the South line of said Parcel 1;
Thence South 369.10 feet along an East line and its northerly extension of Parcel 1 and the east line of Parcel 2 of CSM 277 to the Southeast corner of Tax Parcel 101122002;
Thence West 231.35 feet along the South line of said Tax Parcel to the Southwest corner thereof;
Thence South 156.77 along the East line of Parcel 3 CSM 277 to the Southeast corner thereof;
Thence West 266.97 feet along the South line of said Parcel 3 to the Southwest corner thereof;
Thence North 422.61 feet along the West line of Parcels 3 and 4 of CSM 277 to the Southeast corner of Tax Parcel 101122104;
Thence West 488.17 feet along the south line of said tax parcel to the East right-of-way line of N. Westhill Boulevard;
Thence North 416 feet more or less to the North line of the South 13.72 feet of Lot 2 Westhill East (Plat) being the Northwest corner Tax Parcel 102326500;
Thence East 285.30 feet along said North line to the East line of Westhill East (Plat);
Thence North 296.32 feet more or less to the Northwest corner of Lot 1 Certified Survey Map 1598;
Thence East 947.27 feet along the North line of Lot 1 Certified Survey Map 1598, Outlot 1 and Lot 1 Certified Survey Map 6202 to the West line of N. Bluemound Drive;
Thence South 417.04 feet along said West line to a vision corner of Lot 1 Certified Survey Map 6202;
Thence South 118 feet more or less to the Northeast corner of Tax parcel 10121903;
Thence South 72.73 feet along the East line of N. Bluemound Drive to the Point of Beginning.

Town of Grand Chute
Woodman Drive Urbanization
Westhill Boulevard to Bluemound Drive
G0006-9-18-00499
Schedule of Assessments
Frontage and Trips

Project Costs

Storm Sewer (based on bid):

Item	Estimated Quantity	Unit	Unit Price	Amount	Non RSF & RTF Assessable Amount
36" RCP Storm Sewer	82	LF	$87.30	$7,158.60	$2,469.72
12" Storm Lead	360	LF	$54.75	$19,710.00	$9,855.00
15" Storm Lead	130	LF	$57.25	$7,442.50	$3,721.25
6" Edgedrain	1750	LF	$12.50	$21,875.00	$10,937.50
4" Storm Lateral	201	LF	$53.40	$10,733.40	$5,366.70
8' Storm Manhole	8.92	VF	$763.00	$6,805.96	$1,984.70
6' Storm Manhole	5.62	VF	$661.00	$3,714.82	$1,250.45
5' Storm Manhole	4.92	VF	$702.00	$3,453.84	$1,094.70
4' Storm Manhole	19.3	VF	$445.00	$8,588.50	$4,294.25
Inlet	8	Each	$1,621.00	$12,968.00	$6,484.00
Yard Drain	5	Each	$1,436.00	$7,180.00	$3,590.00
4" Cleanout	4	Each	$125.00	$500.00	$250.00
Relay 12" Storm Lead	8	LF	$115.00	$920.00	$460.00
Connect Storm Lead to Existing Manhole	5	Each	$784.00	$3,920.00	$1,960.00
Connect Storm Lateral to Existing Sump Pump Line	3	Each	$306.00	$918.00	$459.00
Connect Edgedrain to Inlet	9	Each	$350.00	$3,150.00	$1,575.00
Concrete Collar	2	Each	$300.00	$600.00	$300.00
Replace Inlet Curb Box	1	Each	$535.00	$535.00	$267.50
Remove 36" Storm Sewer	155	LF	$15.00	$2,325.00	$1,162.50
Storm Sewer Exploration	85	LF	$10.00	$850.00	$425.00
Remove 36" RC Endwall	2	Each	$100.00	$200.00	$34.50
Remove 12" Endwall	1	Each	$100.00	$100.00	$100.00
Special Backfill	2000	Ton	$0.01	$20.00	$0.00
Adjust Storm Manhole Rim	1	Each	$325.00	$325.00	$325.00
Reconstruct Storm Manhole	4	Each	$1,165.00	$4,660.00	$4,660.00
Adjust Sanitary Manhole Rim	3	Each	$517.00	$1,551.00	$0.00
Remove Storm Manhole	2	Each	$500.00	$1,000.00	$1,000.00
1" Water Service	30	LF	$78.50	$2,355.00	$0.00
1" Corporation Stop, Curb Stop & Stop Box	2	Each	$695.00	$1,390.00	$0.00
Adjust Water Valve Box	2	Each	$202.00	$404.00	$0.00
Adjust Hydrant (30" Hydrant Extension)	1	Each	$1,397.00	$1,397.00	$0.00
Inlet Protection	15	Each	$115.00	$1,725.00	$862.50
	Subtotal:			$138,475.62	$64,889.27
	Contingencies (15%):			$20,771.34	$9,733.39
	Engineering:			$26,592.11	$12,460.98
	Subtotal:			$185,839.07	$87,083.64
	Administration (5%):			$9,291.95	$4,354.18
	Total Storm Sewer Cost:			$195,131.03	$91,437.82

Street (based on bid):

Item	Estimated Quantity	Unit	Unit Price	Amount	Non RSF, RTF & AGD Assessable Amount
Sawcut Asphalt Pavement	475	LF	$1.55	$736.25	$736.25
Sawcut Concrete Sidewalk	10	LF	$3.00	$30.00	$0.00
Sawcut Curb & Gutter	26	LF	$3.00	$78.00	$78.00
Remove Culvert	6	Each	$196.00	$1,176.00	$1,176.00
Mill Asphalt Pavement	1635	SY	$3.10	$5,068.50	$5,068.50
Remove Asphalt Driveway	811	SY	$4.00	$3,244.00	$3,244.00
Remove Curb & Gutter	97	LF	$4.00	$388.00	$388.00
Remove Bus Shelter & Concrete Pad	1	LS	$1,000.00	$1,000.00	$0.00
Remove Signs	3	Each	$50.00	$150.00	$150.00
Remove Sign Posts	2	Each	$50.00	$100.00	$100.00
Excavation	4710	CY	$13.66	$64,338.60	$47,946.60
Embankment	920	CY	$2.50	$2,300.00	$2,300.00
Tree Removal	50	In-Dia	$60.00	$3,000.00	$3,000.00
Clearing and Grubbing	0.2	Acre	$15,000.00	$3,000.00	$3,000.00
Geotextile Fabric Type SAS	4099	SY	$1.55	$6,353.45	$6,353.45
Geogrid Type 2	2000	SY	$2.45	$4,900.00	$0.00
Base Aggregate Dense 1-1/4"	2400	Ton	$15.14	$36,336.00	$36,336.00
Base Aggregate Dense 3"	5300	Ton	$12.30	$65,190.00	$36,900.00
HMA Pavement 3MT 58-28 S (Lower Layer)	800	Ton	$62.20	$49,760.00	$49,760.00
HMA Pavement 4MT 58-28 S (Upper Layer)	650	Ton	$62.20	$40,430.00	$40,430.00
Asphalt Driveway 3"	320	SY	$25.85	$8,272.00	$8,272.00
30" Curb & Gutter	1927	LF	$12.75	$24,569.25	$24,569.25
18" Curb & Gutter	15	LF	$25.50	$382.50	$0.00
24" Curb & Gutter	30	LF	$30.50	$915.00	$0.00
Concrete Curb Pedestrian	10	LF	$40.00	$400.00	$0.00
Concrete Sidewalk, 4"	12110	SF	$4.20	$50,862.00	$0.00
Concrete Curb Ramps, 6"	469	SF	$5.85	$2,743.65	$0.00
Concrete Driveway, 6"	4500	SF	$5.93	$26,685.00	$0.00
Concrete Bus Shelter Pad	150	SF	$5.85	$877.50	$0.00
Detectable Warning Field	60	SF	$30.00	$1,800.00	$0.00
Drilled Tie Bars	40	Each	$8.00	$320.00	$0.00
Aggregate Shoulder	11	Ton	$49.80	$547.80	$547.80
Install Bus Shelter	1	Each	$2,000.00	$2,000.00	$0.00
Signs Type II Reflective H	69	SF	$29.80	$2,056.20	$2,056.20
Moving Signs & Sign Supports	2	Each	$250.00	$500.00	$500.00
Posts Steel 2-3/8-Inch 12-Ft	10	Each	$215.00	$2,150.00	$2,150.00
Posts Steel 2-3/8-Inch 14-Ft	2	Each	$235.00	$470.00	$470.00
Reinstall Existing Sign	1	Each	$250.00	$250.00	$250.00
Pavement Marking Epoxy 4"	1405	LF	$0.75	$1,053.75	$1,053.75
Pavement Marking Epoxy 8"	124	LF	$1.20	$148.80	$0.00
Marking Arrow Epoxy	8	Each	$275.00	$2,200.00	$0.00
Marking Word Epoxy Bike Lane	6	Each	$155.00	$930.00	$0.00
Pavement Marking Stop Line Epoxy 12"	44	LF	$12.25	$539.00	$0.00
Marking Crosswalk Epoxy 6-Inch	74	LF	$8.50	$629.00	$0.00
Marking Epoxy 12" Diagonal (Yellow)	25	LF	$12.25	$306.25	$0.00
Marking Crosswalk Epoxy Ladder Pattern 24"	310	LF	$15.75	$4,882.50	$0.00

Temporary Mailbox Accommodations	3	Each	$114.50	$343.50	$343.50
4' High Chain Link Fence	100	LF	$33.50	$3,350.00	$0.00
Restoration	5035	SY	$6.30	$31,720.50	$31,720.50
Traffic Control	1	LS	$63,100.00	$63,100.00	$63,100.00
Erosion Control Mat Class I Type B	367	SY	$2.00	$734.00	$734.00
Silt Fence	460	LF	$2.50	$1,150.00	$1,150.00
Erosion Bales	20	Each	$18.00	$360.00	$360.00
Property Acquisition	1	LS	$45,000.00	$45,000.00	$45,000.00
Street lights	1	T&M	$40,000.00	$40,000.00	$40,000.00
	Subtotal:			$609,827.00	$459,243.80
	Contingencies (15%):			$91,474.05	$68,886.57
	Engineering:			$117,107.89	$88,190.70
	Subtotal:			$818,408.94	$616,321.07
	Administration (5%):			$40,920.45	$30,816.05
	Total Street Cost:			$859,329.39	$647,137.13

Setting Assessment Rates:

Storm Sewer Assessments:

Non RSF & RTF Frontage Assessment:	
Non RSF & RTF maximum rate:	$40.00 per LF
Assessable cost:	$76,292.80
Total Non RSF & RTF frontage	1907.32 feet
Assessment rate:	$40.00 per LF

Street Assessments:

Frontage Assessment:

Non RSF, RTF &AGD Frontage Assessment:	
Assessable cost (50%):	$323,568.56
Total Non RSF, RTF & AGD frontage	1907.32 feet
Assessment rate:	$169.65 per LF

Trips Assessment:

Assessable cost (50%):	$323,568.56
Trips:	1766.52 trips
Assessment rate:	$183.17 per trip

Schedule of Assessments:

Property Owner	Address	Parcel Number	Zoning	Total Frontage	Non RSF, RTF & AGD Assessable Frontage	Storm Sewer Frontage Assessment	Street Frontage Assessment	Calculated Trips	Trips Assessment	Total Assessment
Grand View Townhomes LLC	551 N. Bluemound Drive	101119400	CL	959.89	418.07	$16,722.80	$70,923.76	116.20	$21,284.03	$108,930.59
Heartland-Grand Chute LLC	3600 W. Woodman Drive	101119402	RMF	342.53	342.53	$13,701.20	$58,108.73	206.40	$37,805.71	$109,615.64
Grand Chute Sanitary District #3	W. Woodman Drive	101119403	CL	89.40	89.40	$3,576.00	$15,166.32	4.73	$866.38	$19,608.70
Brzezinski Investment LLC	20 Bluemound Court	101121900	RMF	519.09	147.45	$5,898.00	$25,014.25	106.40	$19,488.99	$50,401.25
Brzezinski Investment LLC	35 Bluemound Court	101121902	RMF	125.16	0.00	$0.00	$0.00	106.40	$19,488.99	$19,488.99
Vo, Thao Nhi Tran Thony Tran, Et.Al.	3311 W. Woodman Drive	101121903	RMF	212.73	93.33	$3,733.20	$15,833.03	11.62	$2,128.40	$21,694.63
SMKB Enterprises III LLC	3321 W. Woodman Drive	101121904	RMF	300.13	138.93	$5,557.20	$23,568.87	53.20	$9,744.50	$38,870.57
Brzezinski Investment LLC	25 Bluemound Court	101121905	RMF	181.29	0.00	$0.00	$0.00	106.40	$19,488.99	$19,488.99
Brown, Bruce L. & Deborah	3317 W. Woodman Drive	101121906	RMF	114.00	114.00	$4,560.00	$19,339.61	11.62	$2,128.40	$26,028.01
Brzezinski Investment LLC	60 Bluemound Court	101122001	RMF	33.00	0.00	$0.00	$0.00	106.40	$19,488.99	$19,488.99
Brzezinski Investment LLC	Bluemound Court	101122002	RMF	0.00	0.00	$0.00	$0.00	0.00	$0.00	$0.00
Brzezinski Investment LLC	40 Bluemound Court	101122003	RMF	78.88	0.00	$0.00	$0.00	133.00	$24,361.24	$24,361.24
Stakes Inc.	500 N. Westhill Boulevard	101122104	CL	665.29	371.96	$14,878.40	$63,101.40	673.94	$123,443.72	$201,423.52
GOA Properties LLC	600 N. Westhill Boulevard	102326500	CR	416.17	191.65	$7,666.00	$32,512.59	130.21	$23,850.20	$64,028.80
				4037.56	1907.32	$76,292.80	$323,568.56	1766.52	$323,568.56	$723,429.93

Workbook: Bluemound & Woodman
Worksheet: Schedule of assessments (trips)
Location: w:\Projects\G0006\91800499\MSExcel\
Date: February 3, 2020
Revised February 19, 2020 (Incorporated Bid Prices)