



11333 N. Cedarburg Road
Mequon, WI 53092
Phone: 262-236-2934
Fax: 262-242-9655

www.ci.mequon.wi.us

Public Works/Engineering
Taped and Televised

SEWER UTILITY DISTRICT COMMISSION
Tuesday, April 12, 2022
7:15 PM or Immediately Following the Committee of the Whole
Christine Nuernberg Hall

Agenda

- 1) Call to Order, Roll Call
- 2) Approval of Meeting Minutes
Action requested: review and approve
 - a. March 8, 2022 Minutes
- 3) Resolutions
Action requested: review and recommend approval
 - a. **RESOLUTION 3946** A Resolution Authorizing a Waiver from Section 58-600(e) of the Mequon Municipal Code, Requiring Public Sanitary Sewer Service for the Property Located at 1310 Highland Road
 - b. **RESOLUTION 3947** A Resolution Authorizing the Award of Six (6) Contracts for Various Sanitary Sewer Projects (Generator Purchase, Pumping System Design, Inspections and Lateral Locating Services) in the Aggregate Amount of \$339,683
- 4) Adjourn

Dated: April 12, 2022

/s/ John Wirth, Mayor

.....
Notice is hereby given that a quorum of other governmental bodies may be present at this meeting to present, discuss and/or gather information about a subject over which they have decision-making responsibility, although they will not take formal action thereto at this meeting.

Persons with disabilities requiring accommodations for attendance at this meeting should contact the City Clerk's Office at 262-236-2914, twenty-four (24) hours in advance of the meeting.

Any questions regarding this agenda may be directed to the City Administrator's Office at 262-236-2941, Monday through Friday, 8:00 AM – 4:30 PM



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SEWER UTILITY DISTRICT COMMISSION

Tuesday, March 8, 2022

7:30 PM

Christine Nuernberg Hall

Minutes

1) Call to Order, Roll Call

Commissioner Wirth called the meeting to order at 7:43 PM.

Present:

Commissioner John Wirth
 Commissioner Glenn Bushee
 Commissioner Dale Mayr
 Commissioner Jeffrey Hansher
 Commissioner Mark Gierl
 Commissioner Brian Parrish
 Commissioner Kathleen Schneider
 Commissioner Andrew Nerbun
 Commissioner Robert Strzelczyk -- **Absent**

Also present were City Attorney Sajdak, City Administrator Jones, Director of Public Works/City Engineer Lundeen, Deputy Director of Utilities Driscoll, and Administrative Assistant Deuster.

2) Approval of Meeting Minutes

a. January 11, 2022 Minutes

RESULT: **Approved [Unanimous]**

MOVED BY: Commissioner Mayr

SECONDED BY: Commissioner Nerbun

AYES:	Wirth, Bushee, Mayr, Hansher, Gierl, Parrish, Schneider, Nerbun
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3) Resolutions

Action requested: review and recommend approval

Attachment: 03-08-22 Mins_Sewer Utility District Commission (7235 : March 8, 2022 Minutes)

- a. **RESOLUTION 3930** A Resolution Awarding a Contract for the Repair of Five Sewer Laterals in Cedarburg Road / STH 57 to Genesis Excavators, Inc., Kenosha, Wisconsin in the Amount of \$87,349

RESULT: **Approved [Unanimous]**

MOVED BY: Commissioner Parrish

SECONDED BY: Commissioner Nerbun

AYES: Wirth, Bushee, Mayr, Hansher, Gierl, Parrish, Schneider, Nerbun

- b. **RESOLUTION 3931** A Resolution Approving Award of a Contract to Clean and Televis 176 Sanitary Building Sewer Laterals in the Lac du Cours Subdivision to Great Lakes TV Seal, Inc., Green Bay, Wisconsin in the Amount of \$108,158

Commissioner Bushee expressed concern with only receiving two bids and if this was in the ballpark that staff expected.

Deputy Director of Utilities Driscoll stated the bids received were consistent with what the city has received in the past.

RESULT: **Approved [Unanimous]**

MOVED BY: Commissioner Nerbun

SECONDED BY: Commissioner Mayr

AYES: Wirth, Bushee, Mayr, Hansher, Gierl, Parrish, Schneider, Nerbun

- c. **RESOLUTION 3932** A Resolution Awarding a Contract for the Cleaning and Examination of Sanitary Sewer Mains on Mequon Road Between Parkview Drive and Port Washington Road to Northern Pipe, Inc., Green Bay, Wisconsin in the Amount of \$37,485

Commissioner Mayr inquired on the large discrepancy and if the contractor was covering all of the work.

Deputy Director of Utilities Driscoll clarified the additive came in over budget and was not included. Staff did discuss with the contractor to make sure traffic control requirements were covered.

RESULT: **Approved [Unanimous]**

MOVED BY: Commissioner Nerbun

SECONDED BY: Commissioner Schneider

AYES: Wirth, Bushee, Mayr, Hansher, Gierl, Parrish, Schneider, Nerbun

4) Adjourn

a. Motion to Adjourn at 7:48 PM

RESULT: **Approved by Voice Acclamation [Unanimous]****MOVED BY:** Commissioner Gierl**SECONDED BY:** Commissioner Nerbun**AYES:** Wirth, Bushee, Mayr, Hansher, Gierl, Parrish, Schneider, Nerbun

Respectfully Submitted,

*Casey Deuster**Administrative Assistant*

Attachment: 03-08-22 Mins_Sewer_Utility District Commission (7235 : March 8, 2022 Minutes)



11333 N. Cedarburg Road
 Mequon, WI 53092
 Phone: 262-236-2913
 Fax: 262-242-9655

www.ci.mequon.wi.us

Office of Engineering

TO: Sewer Utility District Commission
FROM: Kristen Lundeen, Director of Public Works/City Engineer
DATE: April 12, 2022
SUBJECT: RESOLUTION 3946 A Resolution Authorizing a Waiver from Section 58-600(e) of the Mequon Municipal Code, Requiring Public Sanitary Sewer Service for the Property Located at 1310 Highland Road

Background

The applicant is requesting a waiver from Section 58-600(e) of the City of Mequon Code of Ordinances to allow for the homes within the proposed 27-lot subdivision to be served through private onsite wastewater treatments systems (POWTS) and be exempted from the requirement to connect to public sanitary sewer. Please find attached the letter of request from the applicant.

The subject property is located at 1310 Highland Road, at the northwest corner of Port Washington Road and Highland Road, the remnant parcel surrounding the new Ascension Medical Building. The property is located within the sanitary sewer service area (SSA) and is located along a public sanitary sewer main and is therefore required by ordinance to connect to the public sanitary system.

The applicant was before the Planning Commission for a consultation, where many supported a development at a lower density than that required to make the cost of public sanitary sewer sustainable. At a subsequent meeting, the Planning Commission approved the concept plan for the lower density subdivision. Connection to the public sanitary utility was a condition of that approval, but a provision was included which informed the applicant how to apply for a waiver. Staff understands that the requirement for connection to the public system would result in additional lots at a higher density, to allow for land sales to support the cost of the infrastructure.

The applicant indicates that the requirement to serve the property with public sanitary sewer would increase the development's density to 44 lots.

Analysis

Staff contacted the Metropolitan Milwaukee Sewerage District (MMSD) to inquire as to whether the property could be removed from the SSA. MMSD responded that the parcel is next to an existing sewer, so it does not require a sewer extension to serve the property, for this reason, they do not agree with the removal of this property from the SSA.

The sanitary sewer main is in the upstream most corner of the SSA. The main in Highland Road has the capacity to support the proposed development. However, due to wet weather inflow and infiltration, the Sewer Utility identified downstream capacity issues at the time of application for the Ascension Medical Building. Ascension was ultimately required to construct the sanitary

sewer connection with a flow restriction, where flow would be diverted into a holding tank when the downstream lift station registered high wet wells.

The Sewer Utility has previously awarded several contracts to reduce the inflow and infiltration within the system. Pending successful completion of that work this spring into the summer, the surcharging within the system should be reduced. Further analysis post-construction through flow monitoring would be required to determine what, if any, restriction is required.

Given the density of the proposed development, it is anticipated that, at most, backflow preventers would be required for the plumbing to individual homes. Backflow preventers are recommended in most locations, so that in the event of flow surcharging within the system, the flow is prevented from entering the home.

Similar to those requirements for the Ascension Medical Building, staff recommends that the property develop on the public sewer system. Any flow restrictions required at the time of construction may be removed when the downstream issues are addressed. Depending on the development timeline of construction, those restrictions may never need to be installed. However, if the development were to be constructed today, staff would be conservative in the flow analysis to ensure that the proposed development does not worsen the downstream conditions, nor risk basement backups within the new homes. The terms and conditions of flow restriction would be addressed in a Development Agreement, as was completed for the Ascension Medical Building.

Fiscal Impact

As the property is within the Sewer Service Area, it is subject to an annual capital charge based upon the assessed value for all of the property within the SSA. The MMSD capital charges, along with capital charges for Mequon debt service, comprise the basis for the annual Mequon Sewer Tax district rate and charges. As MMSD will not approve the removal of the property from the SSA, the Sewer Utility will continue to be billed for the capital charges, at what is assumed to be an increased assessed value post-construction. Either the property owners within the development must pay the capital charges through the Sewer Tax, or the other utility customers will absorb those fees. Therefore, those within the Sewer Utility District will be paying an increased cost over that charged by MMSD, to carry those properties within the SSA.

The exact amount of the increase will be determined by the revised assessed value of the property. The current value of the Sewer Tax for the property is \$18.68 based upon an assessed land value of \$11,500. If the total lot/home value of the lots within the subdivision are assessed at \$400k post-construction, the 27-lot subdivision would have a Sewer Tax of approximately \$18,144 and a 44-lot subdivision would have a Sewer Tax of approximately \$29,568.

Allowing the property to develop on private systems will also result in an opportunity loss of revenue derived from quarterly billing but will also not result in any increased cost to utility rate payers.

In 2018, the Sewer Utility District Commission approved Resolution 3610, offering exemption from the Sanitary Tax, but only for parcels which do not currently have legal or practical access

to sanitary sewer.

Recommendation

Staff recommends that the Sewer Utility District Commission recommend against, and the Common Council deny the resolution authorizing the waiver from Section 58-600(e) of the City of Mequon Code of Ordinances. By denying the resolution, the development will be required to be served by public sanitary sewer.

If the resolution is approved, the applicant will be required to execute the proposed Public Sanitary Sewer Exemption Agreement prior to application to the Planning Commission for preliminary plat approval. In draft form, the agreement states that the property owners will be responsible for paying the Sewer Tax.

Attachments:

SUDC sewer waiver request (PDF)

DRAFT Sanitary Agreement_1310 Highland Road (PDF)

COMMON COUNCIL
OF THE
CITY OF MEQUON

RESOLUTION 3946

A Resolution Authorizing a Waiver from Section 58-600(e) of the Mequon Municipal Code,
Requiring Public Sanitary Sewer Service for the Property Located at 1310 Highland Road

RECITALS

A. The City of Mequon Planning Commission approved a concept plan for a 27-lot subdivision at 1310 Highland Road.

B. The property at 1310 Highland Road is within the City of Mequon Sanitary Sewer Service Area (SSA), and therefore is obligated to connect to the City of Mequon Sanitary Utility District pursuant to the existing ordinance requirements.

C. Since the parcel is next to an existing sewer, it does not require a sewer extension to serve the property, and the Metropolitan Milwaukee Sewerage District (MMSD) will not allow the removal of this property from the SSA.

D. The parcel is subject to the MMSD annual capital charge based upon the assessed value for all of the property within the SSA. The MMSD capital charges, along with capital charges for Mequon debt service, comprise the basis for the annual Mequon Sewer Tax district rate and charges.

E. The applicant requested a waiver to Section 58-600(e) of the City of Mequon Code of Ordinances to allow for a 27-lot subdivision, which is at a lower density than the subdivision required to financially support the cost of public sanitary sewer.

BASED UPON THE FOREGOING RECITALS, IT IS RESOLVED by the Common Council of the City of Mequon, Wisconsin, that:

1. The waiver to Section 58-600(e) of the City of Mequon Code of Ordinances is hereby granted for the 27-lot subdivision approved in concept plan by the Planning Commission on February 28, 2022.

2. The Public Sanitary Services Waiver Agreement between the City of Mequon Sewer Utility and the parcel owner is approved subject to City Attorney review and approval.

3. The Mequon officials identified in the Public Sanitary Services Waiver Agreement are hereby authorized and directed to execute and deliver the same on behalf of the City Sewer Utility.

4. The Public Sanitary Services Waiver Agreement shall be executed prior to

application for preliminary plat approval for the proposed subdivision. Recording of the document shall take place concurrently to the recording of the final plat.

Approved by: John Wirth, Mayor

Date Approved: April 12, 2022

I certify that the foregoing Resolution was adopted by the Common Council of the City of Mequon, Wisconsin, at a meeting held on April 12, 2022.

Caroline Fochs, City Clerk



March 18, 2022

City of Mequon
Sewer Utility District Commission (SUDC)
11333 N. Cedarburg Rd
Mequon, WI 53092

Dear SUDC members,

The intent of this letter is to formally request a waiver to ordinance 58-600(e) requiring construction of a residential or business structure that is located within 200 feet of a city sewer line to connect to that sewer line if legally possible and practicable.

We request this waiver on the grounds that the possibility of the system supporting additional connections is in question and that it is not practical to do so for the size of development being proposed.

A previous sewer study completed for this area identified issues with sewer capacity in downstream pipes as well as in downstream lift stations. Repairs to the downstream system to address the wet weather capacity issues have been approved for the 2022 year, however it is unknown whether those repairs will if they will effectively solve the capacity issues. The intent is to develop our proposed residential development this year and it is not practical to move forward on a development where the ability of the municipal sewer system to support the use is in doubt.

The plan commission and common council have repeatedly expressed their desire for low density residential development on this parcel. The reduced number of lots approved cannot support the additional cost burden of installing sewer as well as any potential holding tanks or flow restriction systems. This is not an area of luxury homes, so the home and lot prices need to be managed according to the surrounding market where homes regularly sell under \$500K. The installation of municipal sewer for these lots would result in additional cost of around \$20,000 per lot and lot sales price of around \$200K. The resulting lot prices cannot be supported by the market. We have conducted the appropriate soil testing that shows the site will support the private on-site waste systems and we would be willing to not request that sewer district charges for this parcel be waived as well.

However, if municipal sewer remains a requirement, we could absorb the additional cost of sewer service if we could develop a community with 37-44 lots. Based on the requirements of the UCRC zoning we feel that a maximum of 44 lots would be allowed with all requirements of the zoning district followed.

If approved the commencement of development work is anticipated to be Summer of 2022. We anticipate an approximate 2-3 year time frame for full completion of the units.

This petition is being made after careful consideration regarding the market supply and demand of different residential product types in the Mequon area and we feel it provides a housing option that will benefit the City for many years to come.

We look forward to discussing these proposed changes and bringing another great neighborhood to the City of Mequon.

Sincerely,

Bryan Lindgren

Bryan Lindgren
Neumann Developments Inc

NEUMANN DEVELOPMENTS, INC. * N27 W24025 PAUL CT. SUITE 100 * PEWAUKEE, WI 53072
262-542-9200 * FAX: 262-349-9324 * NEUMANNDEVELOPMENTSINC.COM

Attachment: SUDC sewer waiver request (RESOLUTION 3946 : Waiver Section 58-600(e) Sewer Connection - Neumann)

Document Number	PUBLIC SANITARY SERVICE WAIVER AGREEMENT	
	Document Name	
This Public Sanitary Services Waiver Agreement (the "Agreement") is made by and between the City of Mequon (d/b/a the "City") and Highland Road LLC (the "Developer") (collectively, the "Parties," individually, a "Party"). WHEREAS, the Developer is proposing a residential, single-family home subdivision (the "Development") at 1310 Highland Road (Tax ID 150071600200) within the City's Sanitary Utility District; and WHEREAS, the Sewer Utility District Commission granted a waiver to Section 58-600(e) of the City of Mequon Code of Ordinances, allowing the homes within the subdivision to be served by private onsite wastewater treatment systems ("POWTS") and not require connection to the City of Mequon Sanitary Utility District; and WHEREAS, the Agreement prohibits future property owners, future lot owners pending transfer of ownership through final plat or sale of lots, or any other property derived from Tax ID 150071600200 to request connection or connect to the City of Mequon Sanitary Utility District. NOW, THEREFORE, in consideration of the mutual promises set forth in this Agreement and other good and valuable consideration, the receipt and sufficiency of which are acknowledged, the Parties hereby agree as follows: - The Parties expressly agree that the Developer is obligated to connect to the City of Mequon Sanitary Utility District pursuant to the existing ordinance requirements; however, the City grants the Developer and future owners of the Development a waiver on the terms set forth in this Agreement. - Developer, its successors and assigns, agrees not to seek a further waiver from its obligation under the ordinances from the City during the term of this Agreement. - Developer expressly agrees that the Development shall be constructed and used in compliance with the preliminary and final plat approval granted by the City Planning Commission on _____. Should the future use change result in a condition such that continuous use of a POWTS will negatively impact adjacent properties, or the POWTS fails and alternate service is required, this Agreement shall be null and void and the Developer shall connect the Development to the City of Mequon Sanitary Utility District as soon as is practicable, unless agreed upon by the Parties. - As a condition of approval, the Developer provided soil reports for each proposed lot within the proposed subdivision, indicating that each lot can be supported by a POWTS. At the time of execution of this Agreement, permitting for POWTS is administered through and subject to Ozaukee County approval. A POWTS permit is required prior to the application for a City building permit.		
Recording Data		
Name and Return Address		
Director of Public Works/City Engineer 11333 N Cedarburg Road Mequon, WI 53092		
Parcel Identification Number		
150071600200		

2. The Parties expressly agree that in the event the Developer is required to pursuant to Section 1.2 connect to the City of Mequon Sanitary Utility District, the cost to install the service lateral is the sole responsibility of the Developer or, if the Developer has sold the Development, to its successor in title.

2.1 The City of Mequon shall provide notice to the title holder of the Development pursuant to Section 6 of this Agreement if a service connection is required for the development (the "Connection Notice"). Developer shall have six (6) months from the date of the Connection Notice to connect to the City of Mequon sanitary system.

2.2 The Connection Notice may be extended by mutual written agreement of the Parties.

3. The Metropolitan Milwaukee Sewerage District ("MMSD") charges the City of Mequon Sewer Utility an annual capital charge based upon the assessed value for all of the property within the Sewer Service Area. The MMSD capital charges, along with capital charges for Mequon debt service, comprise the basis for the annual Mequon Sewer Tax district rate and charges. The Developer and any future owner of the parcel associated with Tax ID 150071600200 or derived from Tax ID 150071600200, and any subsequent parcels derived from Tax ID 150071600200 shall be required to pay the annual MMSD sanitary sewer capital charge and assume the cost for the annual Mequon Sewer Tax District charges attributable to sanitary sewer service, payable with the annual tax bill. The capital charge and sewer levy are not eligible for appeal, waiver, exception or permission for non-payment.

4. The Parties expressly agree that this document shall be binding upon any successors, assigns and heirs of the Parties.

4.1 It is the intention of the Parties that this document be recorded with the Ozaukee County Register of Deeds and that the obligations set forth in this document run with the specific properties within the Development.

4.2 With any land division, the property owner shall be required to record a copy of this document with the Ozaukee County Register of Deeds for all subsequent parcels created from Tax ID 150071600200.

5. This Agreement does not waive the requirement for the Development to be served by the Mequon Water Utility.

6. This Agreement shall remain in full force and effect unless terminated by mutual agreement of the Parties in writing.

7. Any notice sent in relation to this Agreement shall not be considered to be effective unless sent by Certified United States mail to the following addresses:

7.1 To the City of Mequon:

Director of Public Works/City Engineer
City of Mequon
11333 N. Cedarburg Road 60W
Mequon, WI 53092-1930

7.2 To Developer:

Either Party may change its address for notice by providing notice of said change to the other Party.

8. This Agreement shall be governed by and construed under the internal laws of the State of Wisconsin.
9. This Agreement represents the complete understanding between the Parties and any amendment to this Agreement must be agreed to in writing by the Parties.

CITY OF MEQUON

By: _____
Signature

Name: _____
Type or Print

Date: _____

Approved by: _____
NAME, City Attorney

DEVELOPER

By: _____
Signature

Name: _____
Type or Print

Date: _____



11333 N. Cedarburg Road
 Mequon, WI 53092
 Phone: 262-236-2913
 Fax: 262-242-9655

www.ci.mequon.wi.us

Office of Sewer Utility District Commission

TO: Sewer Utility District Commission
FROM: Kevin Driscoll, Deputy Director of Utilities
DATE: April 12, 2022
SUBJECT: RESOLUTION 3947 A Resolution Authorizing the Award of Six (6) Contracts for Various Sanitary Sewer Projects (Generator Purchase, Pumping System Design, Inspections and Lateral Locating Services) in the Aggregate Amount of \$339,683

Background

The 2022 Sanitary Sewer Budget was adopted in October 2021 and includes a number of capital improvements. Much of the work is a continuation of prior years' improvements and upgrades to the sanitary sewer equipment and system as components age and deteriorate. The intent of this resolution is to request authorization to award contracts for the following projects:

1. *Replace Portable 100kW Back-Up Generator*

The current Sewer Utility back-up generator was purchased in 1978, is over 44 years old, and has reached the end of its useful life. Maintenance and repairs have been routine and as a result of a cracked head on the engine block, it needs to be replaced. A replacement has been planned and budgeted, and staff acquired the quotes listed below for the Portable 100kW Back-Up Generator. Staff is recommending award to Interstate Power Systems as the low bidder. The existing generator will be sold through Wisconsin Surplus, and a copy of the proposal received from Interstate is attached as Exhibit A.

Interstate:	\$78,827
KW Electric:	\$80,947
Engine Services:	\$85,307
Wolter Systems:	\$109,750

2. *Design Back-up Pumping System*

Lift station E is located at 2010 W. Ranch Bay Road and a condition assessment was completed in 2021. That condition assessment determined that a new station is required. With Commission approval of potential relocation sites, staff held public information meetings in December and January to discuss relocating the lift station. However, no public land is available in the immediate vicinity. In addition, the condition assessment identified vulnerability with electric service connections, and the potential for pump failure. In the event both electrical feeds go out, then the station would be inoperable without a back-up power source. Therefore, staff requested proposals to design a back-up pumping system, as the existing station is served by redundant electrical feeds, until a new lift station can be built. Staff requested proposals from five qualified consultants and received the following. Staff is recommending award to S.E.H. Consultants as the low bidder, and a copy of the recommended contract proposal is attached as Exhibit B.

S.E.H. Consultants:	\$74,090
Applied Technologies:	\$77,600

3. *On-Call Construction Inspection Services*

Bloom Consultants and raSmith submitted proposals for on-call sanitary and lateral inspection services. On-call inspection services include flow equalization in Cedarburg Road at Donges Bay Road and Sherwood Drive this spring, and during various construction activities throughout the year. Staff is recommending awards to both consultants be utilized as required on a time-and-materials basis, within a not-to-exceed amount, pending further authorization by the City. A summary of both proposals is attached as Exhibit C.

Bloom Consultants	\$13,792
raSmith	\$16,800

4. *Manhole Inspections*

Staff requested proposals from five consultants that previously worked on manhole inspections for the City. Manhole inspections are required by the Capacity, Management, Operation and Maintenance Program administered through the WDNR. Kapur responded with the most competitive proposal at \$34 per manhole. Staff recommends contract award to Kapur, who has successfully performed this work in the past. Kapur's proposal is attached as Exhibit D.

Kapur	\$26,750
Clark Dietz	\$27,545
Bloom	\$29,119
raSmith	\$30,693
Sigma	\$31,480

5. *Sewer Lateral Work (Sonde Locating Laterals)*

In October 2021, the lateral work in Riverdale Park Lift Station F and Riverland Drive Lift Station H areas was rejected because it exceeded available budget. Thereafter, staff established a funding agreement amendment to break the contract into four parts:

- 1) Sonde Locating Laterals
- 2) Rehabilitation and Grouting from Mains (*May*)
- 3) Clean-out Installations (*Summer*)
- 4) Rehabilitation and Grouting from Clean-outs (*Fall*).

Staff requested quotes from qualified contractors including: Michels, Taplin and Northern Pipe, Inc. as these firms pre-registered with MMSD as qualified contractors for the PPI/I Program. Staff received one quote from Northern Pipe, Inc. in the amount of \$108,273.41, where \$33,575 is for allowances and “*If Authorized*” tasks to complete the work. Northern Pipe will also be in Mequon this summer to complete sewer main televising in Mequon Road. Future phases of lateral rehabilitation work are planned, with another award anticipated next month. Accordingly, staff recommends award of this contract to Northern Pipe, Inc., in the amount contained in the proposal attached as Exhibit E.

Northern Pipe, Inc.	\$108,274
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6. *Lateral Inspection Services*

Inspection is required for Item 5, Sonde Lateral Locating work. Staff is recommending Bloom as the low proposer at \$21,150. Funds are available in the MMSD funding agreement to complete the three remaining contracts. The subject contract amount recommended for award is outlined in Exhibit F.

Bloom Consultants	\$16,150*
raSmith	\$21,000

*In addition to the inspection services cost, staff is requesting \$5,000 for administrative costs, totaling \$21,150. Bloom is lower than raSmith with administrative costs.

Analysis

The items listed are all critical to keep the operation of the sanitary sewer system. Staff has requested written quotes from multiple contractors for the various equipment and upgrades. The quotes are detailed in the attachments.

Fiscal Impact

The fiscal year 2022 budget includes adequate funding for these projects, a balance transfer is not necessary at this time. However, an amendment to the funding agreement with MMSD may be required to complete future phases of lateral rehabilitation work on private property. Detailed pricing results in a total of \$339,683. A copy of the Sewer Utility’s Capital Projects List for 2022 is also attached for reference.

Recommendation

Staff recommends that the Sanitary Utility District Commission favorably endorse, and the Common Council approve the resolution for the capital improvement projects.

Attachments:

Exhibit A - Interstate (#3381-22) (PDF)

Exhibit B - SEH Design to Install Back-up Pump (#3616-22-E) (PDF)

Exhibit C - On-Call Inspection (PDF)

Exhibit D - Kapur SMH Inspections (#3501-22) (PDF)

Exhibit E - Northern Pipe Sonde Locating Quote (PDF)

Exhibit F - Bloom Sewer Lateral Inspection (PDF)

Exhibit G - 2022 Sewer Capital Budget (PDF)

COMMON COUNCIL
OF THE
CITY OF MEQUON

RESOLUTION 3947

A Resolution Authorizing the Award of Six (6) Contracts for Various Sanitary Sewer Projects (Generator Purchase, Pumping System Design, Inspections and Lateral Locating Services) in the Aggregate Amount of \$339,683

RECITALS

A. A number of capital improvements were identified as part of the FY2022 Sanitary Sewer budget adopted by the Common Council on October 28, 2021.

B. These projects are critical to the operation of the City's sanitary sewer system operations.

C. City staff recommends that the capital project totaling \$339,683 be awarded to the following consultants and contractors:

1. 100kW Back-Up Generator to Interstate Power Systems in the amount of \$78,827 payable from account 610669-740005.

2. Design Back-Up Pumping System to S.E.H. Consultants in the amount of \$74,090 payable from account 610669-740002.

3. On-Call Inspection Services to Bloom Consultants in the amount of \$13,792, and On-Call Inspection Services to raSmith in the amount of \$16,800 payable from account 610669-740001.

4. Sanitary Manhole Inspection Services to Kapur & Associates, Inc. in the amount of \$26,750 payable from account 610669-740001.

5. Sanitary Building Sewer Lateral Sonde Locating to Northern Pipe, Inc in the amount of \$108,274 payable from account 610669-740006.

6. Inspection Services for Sonde Locating to Bloom Consultants in the amount of \$21,150 payable from account 610669-740006.

D. The FY2022 budget includes in the Sewer Utility capital improvement for these projects.

E. The Sewer Utility District Commission at its meeting on April 12, 2022, endorsed staff's recommendations.

BASED UPON THE FOREGOING RECITALS, IT IS RESOLVED by the Common Council of the City of Mequon, Wisconsin that:

1. Staff complete the 2022 sanitary sewer capital projects identified above.
2. The Mayor and the City Clerk are authorized and directed to execute and deliver any and all agreements for the contractors above subject to review and modifications as necessary by the City Attorney.

Approved by: John Wirth, Mayor

Date Approved: April 12, 2022

I certify that the foregoing Resolution was adopted by the Common Council of the City of Mequon, Wisconsin, at a meeting held on April 12, 2022.

Caroline Fochs, City Clerk

INTERSTATE PowerSystems



March 18, 2022

Project Name: City of Mequon – Portable trailer

Specification:

Compliance with any other written specification section(s) or drawing(s) is specifically excluded including those incorporated by reference.

Quotation:

The following MTU quotation is presented by the Interstate Power Systems located in Carol Stream, Illinois. Interstate Power Systems has been a distributor for power systems since 1958 that includes equipment sales, parts and a dedicated team of factory trained power system technicians.

We are pleased to quote the following new generator set and associated equipment:

- (1) 100kW Diesel Fuel generator set emergency standby rated / prime rated –
- Delivery to jobsite

Pricing will be found on the following pages as well as a detailed list of equipment and services to be included in this quote. Should you have any questions please feel free to contact me. I would also like to meet with you at your convenience to go over this quotation. The unit is "Made in America".

Robert Alfini
Sales Engineer
Interstate Power Systems
708-642-5071

BRANCH LOCATIONS

ALTOONA, IA • CEDAR RAPIDS, IA • DAVENPORT, IA • CAROL STREAM, IL • ROCKFORD, IL • GARY, IN
IRON MOUNTAIN, MI • MINNEAPOLIS, MN • BILLINGS, MT • LINCOLN, NE • OMAHA, NE • BISMARCK, ND
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INTERSTATE PowerSystems



QUOTATION

Line	Product number	Description	Qty
20	8972823227	QAS125 100kw / JD T4F EB	1
40	0000049664	External Fuel Connection	1
50	0000049668	Cold Weather Oil (0W40)	1
70	1310300485	SERVICE PAK 500H	1
		Trailer and Stabilizer Jack	
		Battery Charger, Block Heater, External Fuel Tank Connection, Battery Cut Off Switch, DOT Trailer w Electric Brakes, 110% containment, Voltage Selector Switch	

START-UP &: COMMISSIONING

- Initial Fill of Lube Oil & Antifreeze
- Commissioning Support
- Demonstration and Training

FREIGHT:

Freight included – offloading not included – to one location only

BRANCH LOCATIONS

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INTERSTATE PowerSystems



PRICE FOR QAS125 AS DESCRIBED ABOVE ...\$72,443.00

Single ARKTITE PLUG - CAT# AP20458 S22 M80 supplied and wired to customer supplied cable...**\$3,989.00**

Price for 50ft of 40 4 conductor cable...**\$2,395.00**

40-42 WEEK LEAD TIME

NOTE: Sales tax, if required, is not included.

Clarifications and Exceptions

1. Units are shipped wet to include lube oil and a 50/50 water and anti-freeze mix.
2. One way freight to job site or riggers yard included. Additional freight and/or storage will be billed accordingly.
3. Seller is not quoting unit installation and all extended piping and wiring beyond the genset system provided by others.
4. Fuel and fuel permits by others, fuel can be added at the time of startup at the current market rate.
5. Offloading of all equipment by others, offloading can be requested for additional cost at time of release.
6. Startup and testing performed after verified installation and termination of all main line conduits, control wiring and any communications interface the customer has requested. Please fill out startup request for found in the O&M shipped with the unit. Startup and testing will be performed per the bid documents or as per requested by the customer.
7. Unit training will be performed the same day as startup if feasible. If not it can be rescheduled at the owners discretion. Three days' notice required for request. Video tape sessions can be performed upon request at a slight charge.
8. Onsite testing and resistive load banking as per technical specifications, NETA testing, infrared testing, by others.
9. Sales tax and other fees or permits not included.
10. Quote is valid for 30 days unless confirmed otherwise.
11. Subject to the Term & Conditions provided herein or available at: <http://www.istate.com/about/terms-and-conditions>

BRANCH LOCATIONS

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INTERSTATE PowerSystems



TERMS AND CONDITIONS

GENERAL: Stenographical and clerical errors are subject to correction. Orders resulting from quotations become contracts only upon issuance of our formal acknowledgment. These terms and conditions and our invoice terms and conditions attached hereto are a complete statement of the agreement between us and you. In no event shall we be bound to any other agreement, term, or condition that is contained in an outside agreement between you and any other party unless expressly consented to by us in writing.

LIABILITY: Orders are accepted by us under the condition that we are not to be liable for losses or delays caused by strikes, accidents, fires or any other cause beyond our control. Damage resulting from improper storage or handling prior to placing products in service will not be considered our liability. We will not assume any responsibility, expense or liability for repairs made without our written consent. WE SHALL NOT BE LIABLE FOR ANY DAMAGES CAUSED BY THE PRODUCTS DELIVERED OR TO BE DELIVERED TO YOU, OR BY YOU OR ANY THIRD PARTY'S USE OF SUCH PRODUCTS. IN NO EVENT SHALL WE BE RESPONSIBLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR LIQUIDATED DAMAGES ASSOCIATED WITH THIS AGREEMENT.

RETURNED MATERIAL: No material may be returned without first obtaining written approval, and no claim will be allowed nor credit given for material returned without such written approval. It is your duty to inspect goods within ten days after receipt.

SHIPMENT: Our responsibility ceases with the delivery of merchandise in good order to transportation companies. Claims for shortage or damage in transit must be made by the customer against the carrier. In the absence of definite shipping instructions, we reserve the right to ship all material, upon completion, by any public carrier which in our opinion is satisfactory.

PRICING; PAYMENT FOR GOODS AND SERVICES: Prices, quotations, specifications and other terms and all statements appearing in the Seller's sales literature and otherwise made by the Seller are subject to change without notice, including as a result of changes in market conditions, increases in raw materials, component, labor or overhead costs or because of labor disruptions or fluctuations in production volumes. Without limiting the generality of the foregoing, all prices are subject to and shall be increased by sales tax where applicable. 100% of invoice due within 30 days of delivery of equipment.

TAXES: State and local sales and use taxes and excise taxes, where applicable, are in addition to quoted prices and will be billed unless the purchaser promptly certifies that the goods are for resale or are otherwise exempt.

WARRANTY: WE WARRANTY ONLY THAT THE PRODUCTS CONFORM TO THE SPECIFICATIONS SET FORTH ON THE FACE HEREOF OR AS THE MANUFACTURER MAY PROVIDE. ALL WARRANTIES ON PRODUCTS, PARTS AND/OR MATERIALS PROVIDED BY US SHALL BE ONLY THE WARRANTY PROVIDED BY THE APPLICABLE MANUFACTURER OF SUCH PRODUCTS, PARTS OR MATERIALS AND SUCH WARRANTIES MAY BE AND HEREBY ARE PASSED THROUGH FROM US TO YOU. WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, EXCEPT AS SET FORTH IN THE PRECEDING SENTENCE OR ON THE FACE HEREOF. IF SERVICES WILL BE PROVIDED BY US PURSUANT TO THIS AGREEMENT, THOSE SERVICES WILL BE SUBJECT TO INTERSTATE'S SERVICE WARRANTY.

Signature below signifies approval and authorization to proceed with the purchase of equipment outlined in this proposal and acknowledges Interstate PowerSystems' terms and conditions above, including the Code of Conduct, Service Warranty, and General Terms & Conditions, which are expressly incorporated herein by reference, and are available at <http://www.istate.com/about/terms-and-conditions> or in hard copy upon request.

Print Name: _____

Title: _____

BRANCH LOCATIONS

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INTERSTATE PowerSystems



A Rolls-Royce
solution

3.b.a

Signature: _____

Date: _____

Attachment: Exhibit A - Interstate (#3381-22) (RESOLUTION 3947 : 2022 Sanitary Sewer Projects and Improvements)

BRANCH LOCATIONS

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Building a Better World
for All of Us®

Exhibit B

March 17, 2022

City of Mequon Engineering Department
kdriscoll@ci.mequon.wi.us

RE: Consultant Services to Prepare Bid Documents to Install Back-up Pump | #3616-22-E

Dear Kevin:

The City of Mequon's Lift Station E (LS E) will require future replacement in order to continue accommodating the City's wastewater conveyance needs. However, floodplain impacts and system modeling must be assessed and completed to properly size and locate the new facility. It's wise to hold off on design until further investigation has been completed. In the interim, installing a backup pump will provide Lift Station E with the ability to continue pumping during a regional power failure, while also providing redundancy to reduce or eliminate overflows until you can construct a more permanent solution. The Short Elliott Hendrickson Inc. (SEH®) team's work on previous lift station condition assessments and our overall knowledge of your wastewater system will afford you a cost-effective, time-sensitive project installation. Here's how:

Proactive Supply Chain Solutions. Time is of the essence. According to our contacts at Godwin, the DPC300 model pumps currently require a 32-month lead time. With a design-bid-build approach, that months-long period begins after contractor selection. Since the specific model is already determined, we suggest considering owner procurement and can assist with the process so that the equipment is ready and waiting to be installed upon contractor selection. Or, if a design-bid-build approach is preferred, we will maintain communications with suppliers and focus on timeliness and efficiency throughout our design process.

Technical Considerations, Relevant Expertise. Located in the floodplain, any work on the existing LS E site must consider flood elevation. Placement of the backup pump above the flood line is relatively straightforward, but will require consideration of a transition element for the pipe into the manhole. This could involve covering or hardening the pipe, or placing a riser on the manhole. The proposed SEH team will help you identify the most cost-effective solutions, founded in our collective experience on numerous similar lift stations in floodplains as well as backup generator, piping and pump design projects. We'll be able to quickly develop plans and specifications that consider strategies tailored to LS E.

Familiarity with Your Collection System. Few can match Project Manager Al Bush's knowledge of Mequon's collection system, gained through multiple lift station and collection system assessments. This history of collaboration with your staff and familiarity with your system precludes a smooth, informed process with the responsiveness and flexibility you've come to rely on with SEH. We understand where bottlenecks occur and what is in store for future capital improvements, and we can design a back-up pump with the big-picture perspective in mind.

We look forward to continuing our working relationship with the City of Mequon and delivering a cost-effective model, recommendations and accurate cost estimates. We also acknowledge receipt of Addendum No. 1, dated March 15, 2022. If you have any questions, please contact Al Bush at 920.287.0828 or abush@sehinc.com.

Respectfully Submitted,



AL BUSH, PE, BCEE
PROJECT MANAGER

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 809 North 8th Street, Suite 205, Sheboygan, WI 53081-4032

920.452.6603 | 888.908.8166 fax | sehinc.com

SEH is 100% employee-owned | Affirmative Action–Equal Opportunity Employer



Project Understanding and Approach

Mequon's Lift Station E (LS E), originally constructed in 1965, is the largest lift station in Mequon's sanitary sewer collection system. LS E currently has two separate utility power sources for redundancy. However, in the event of a regional power failure event affecting both sources, LS E would be vulnerable and system overflows, basement backups and bypassing could result.

To address this issue (identified as a critical point of failure in a recent conditions assessment), the City of Mequon intends to install a portable emergency pump at LS E. The portable pump would be natural gas-powered, and would therefore be unaffected by a regional power failure. The preliminary sizing of the emergency pump is approximately 3,000 gpm, or equal to one of the three existing 125 HP electric motor driven pumps at the station.

This vulnerability was identified in the **January 2021 condition assessment for LS E**. In addition, LS E was found to have insufficient firm pumping capacity for peak flow conditions, and a new replacement LS E is recommended to be constructed in the near future. The condition assessment recommended that new LS E be constructed with a future firm pumping capacity of 9,000 gpm. The proposed emergency pump is intended to be a temporary measure, to protect against power failure conditions until new LS E can be constructed.

ONGOING HYDRAULIC MODELING

Hydraulic modeling of the collection system north of LS E was subsequently performed by SEH, after the condition assessment was completed. During an extreme wet weather event on August 8, 2021, peak flows in excess of the condition assessment findings were observed, on the order of 10,000 to 12,000 gpm including overflows and bypass pumping. The City initiated a comprehensive hydraulic study of the overall LS E collection system to determine current and future peak flow conditions and potential impacts on new LS E design. This hydraulic study is ongoing.

SITE CONSIDERATIONS AND POTENTIAL FLOODING

As a part of the emergency pump design, we will perform an evaluation of the existing LS E site. The available space within the existing LS E site is constrained on three sides by flood protection berms, and buried sanitary sewers enter the site from three different directions. Lands north of LS E include backwater areas that are tributary to the Milwaukee River. Since the existing flood protection berms are not continuous, the LS E site is subject to periodic flooding. The access driveway and ground floor of LS E are approximately 2 ft. below the 100-year flood elevation.

It would be necessary for the emergency pump to be installed above flood elevation. It is also recommended that the emergency pump suction pipe access manhole (MH#119-034) lid also be raised above the flood elevation to prevent additional clear water inflow during flooding conditions. There is not enough space within the existing structure for a new emergency pump discharge connection to be made, so the connection will need to be made to one of the buried force mains in the yard.

Fortunately, the City recently determined that LS E will operate successfully with all of the pump discharge header isolation valves open (pumping capacity actually increased as a result), so the new emergency pump connection can be made to either buried force main. The City also anticipates that some form of SCADA interfacing and automated control of the emergency pump be provided, to maximize the level of protection provided.

The City would like a comparison of emergency pumping versus emergency generator to be provided. The following table presents just a few possible advantages and disadvantages of each option:

EMERGENCY PUMP	EMERGENCY GENERATOR
ADVANTAGES	
Provides additional pumping capacity compared to existing	Can be sized to provide standby power to all 4 existing pumps
Provides some collection system protection from flooding without structural modifications to the building	Does not require piping modifications
Larger unit could be provided for additional pumping capacity	
Does not require modification of existing electrical switchgear	
DISADVANTAGES	
Current size selected does not provide as much pumping capacity as existing	Does not provide any additional pumping capacity
Requires piping modifications	Does not protect collection system from station flooding without structural modifications to the building
	Requires modification of existing electrical switchgear

The emergency pump selected by the City could require a long lead time for fabrication and delivery, up to 32 weeks according to the equipment supplier. In order to expedite the project, the City could consider direct procurement of the emergency pump from the supplier. This approach would get the ball rolling immediately on obtaining the pump, while the installation design proceeds on a parallel track.

PERMITTING

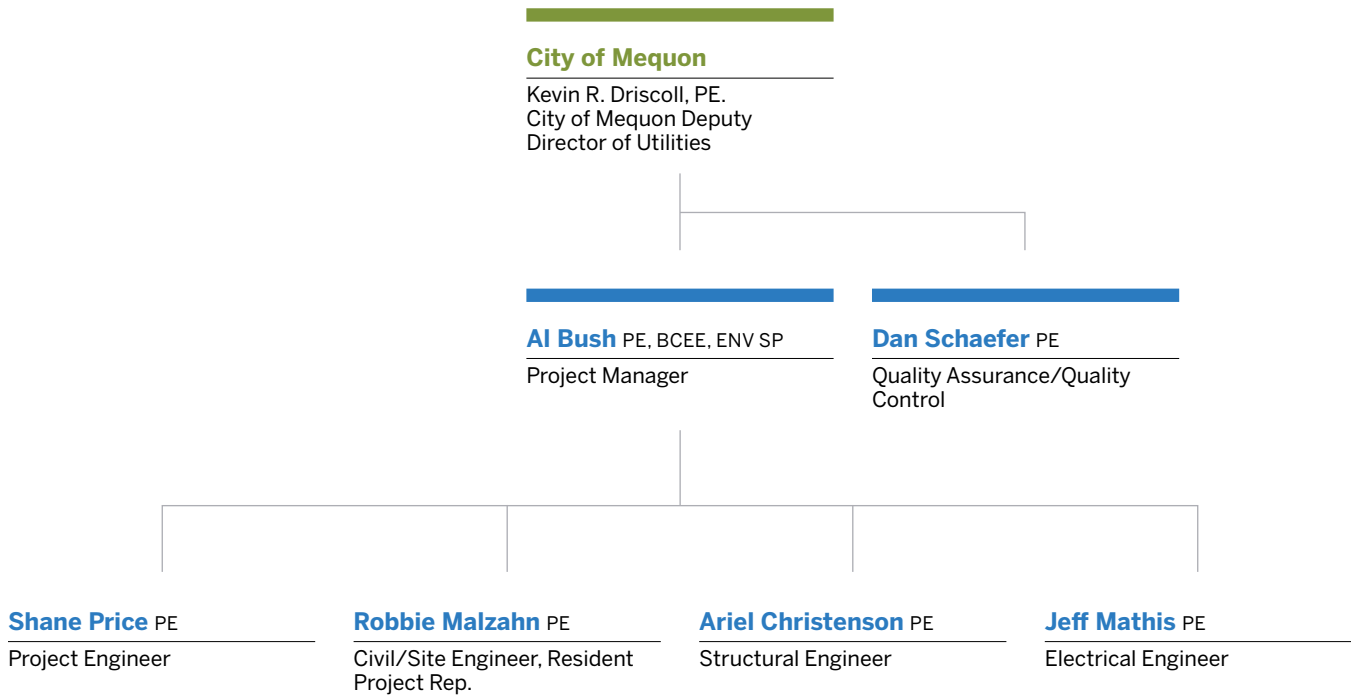
In terms of permitting, a plan review by WDNR will be likely for this project. The existing structure's location with respect to the flood plain makes it unlikely that flood plain permitting or a Section 404 permit will be needed.





Project Team

Our process utilizes in-house operations specialists and engineers that have found innovative solutions to these challenges before, coupled with experienced field staff to work alongside the City in achieving practical solutions in real-life scenarios. All of this is done with attention to your budget and reducing capital expenditures and operating costs in the long run. Our pool of resources ensures full availability at every stage.



The specific licenses and credentials of the team members are described in the personnel and/or resume section of this document.

Cost

Because we understand this project type, you can rest assured that what we propose is what the project will cost. Our team will provide quality services that will meet your budget requirements and we are committed to helping you achieve an optimum balance between project cost, scope and schedule that results in the best value for the City.

TASK	TASK DESCRIPTION	HOURS	FEES
Task 1a	Alternatives Analysis to Compare Back-up Pumping System with Back-up Generator	8	\$1,310
Task 1b	Design Memo with Preliminary Plans	46	\$6,910
Task 2	Final Plans	38	\$5,600
Task 3	Specifications	22	\$3,780
Task 4	Bid Documents	15	\$2,670
Task 5	Bidding Assistance	18	\$2,710
Task 6	Meetings	19	\$3,230
Task 7	Permitting	33	\$4,070
BASE ITEMS TOTAL		199	\$30,280

IF AUTHORIZED TASKS			
TASK	TASK DESCRIPTION	HOURS	FEES
Task 8	Construction Management	160	\$22,500
Task 9	Inspection (20 working days)	160	\$19,020
Task 10	Record Drawings	6	\$800
Task 11	Standard Operating Procedures	10	\$1,490
IF AUTHORIZED ITEMS TOTAL		336	\$43,810
TOTAL (ITEMS 1-11)		535	\$74,090

Agreement for Professional Services

This Agreement is effective as of March 24, 2022, between City of Mequon (Client) and Short Elliott Hendrickson Inc. (Consultant).

This Agreement authorizes and describes the scope, schedule, and payment conditions for Consultant's work on the Project described as: **Prepare Bid Documents to Install Back-up Pump at Lift Station E.**

Client's Authorized Representative: Kevin R. Driscoll, PE
Address: 11333 N. Cedarburg Road
Mequon, WI 53092
Telephone: 262.236.2937 **email:** kdriscoll@ci.mequon.wi.us

Project Manager: Alan Bush, PE
Address: 809 North 8th Street, Suite 205
Sheboygan, WI 53081
Telephone: 920.287.0828 **email:** abush@sehinc.com

Scope: The Basic Services to be provided by Consultant as set forth herein are provided subject to the attached General Conditions of the Agreement for Professional Services (General Conditions Rev. 07.14.16), and in accordance with our proposal dated March 17, 2022 (Exhibit B), which are incorporated by reference herein and subject to Exhibits attached to this Agreement.

- 1) Base Scope of Work Tasks:
 - A) Prepare Alternatives Analysis to Compare Back-up Pumping System with Back-up Generator.
 - B) Prepare Design Memo with Preliminary Plans.
 - C) Prepare Final Plans.
 - D) Prepare Project Specifications.
 - E) Prepare Bidding Documents.
 - F) Attend and Conduct Design Meetings.
 - G) Provide Permitting Assistance.
- 2) Optional Tasks, if Authorized:
 - A) Provide Construction Management.
 - B) Provide Construction Inspection.
 - C) Prepare Record Drawings.
 - D) Develop Standard Operating Procedures.

Schedule:

Project Kick-off Conference:	April 13, 2022
Alternatives Analysis and Design Memo:	April 29, 2022
Preliminary Plans and Draft Bid documents:	May 20, 2022
Final Bid Documents:	June 30, 2022
Advertise for Bids:	July 7, 2022
Pre-Bid Meeting:	July 14, 2022
Bid Opening:	July 21, 2022
Contract Award:	August 8, 2022

Payment: The fee is hourly estimated and subject to a not-to-exceed total amount of \$74,090.00 including expenses and equipment.

- 1) Base Scope of Work Tasks: \$30,280.00
- 2) Optional Tasks, if Authorized: \$43,810.00

The payment method, basis, frequency and other special conditions are set forth in attached Exhibit A-1.

This Agreement for Professional Services, attached General Conditions, Exhibits and any Attachments (collectively referred to as the "Agreement") supersedes all prior contemporaneous oral or written agreements and represents the entire understanding between Client and Consultant with respect to the services to be provided by Consultant hereunder. In the event of a conflict between the documents, this document and the attached General Conditions shall take precedence over all other Exhibits unless noted below under "Other Terms and Conditions". The Agreement for Professional Services and the General Conditions (including scope, schedule, fee and signatures) shall take precedence over attached Exhibits. This Agreement may not be amended except by written agreement signed by the authorized representatives of each party.

Other Terms and Conditions: Other or additional terms contrary to the General Conditions that apply solely to this project as specifically agreed to by signature of the Parties and set forth herein:

1. Strike the last sentence in Section I, Part C, 1 and replace with "Upon notification, the Parties shall negotiate in good faith an amendment to this Agreement to address additional time or compensation before commencing such work."
2. Modify the fourth sentence in Section III, Part A, 1 to read "Consultant reserves the right to retain Instruments of Service until all Invoices are paid in full, except those invoices that Client has properly disputed in good faith."
3. Modify the fifth sentence in Section III, Part A, 1 to read "Consultant will not be liable for any claims of loss, delay, or damage by Client for reason of withholding services or Instruments of Service until all invoices are paid in full, except those invoices that Client has properly disputed in good faith."

Short Elliott Hendrickson Inc.

City of Mequon

By: _____
 Bruce K. Olson, PE
 Title: Principal _____

By: _____
 Title: _____

General Conditions of the Agreement for Professional Services

SECTION I – SERVICES OF CONSULTANT

A. General

1. Consultant agrees to perform professional services as set forth in the Agreement for Professional Services or Supplemental Letter Agreement ("Basic Services"). Nothing contained in this Agreement shall create a contractual relationship with or a cause of action in favor of a third party against either the Client or the Consultant. The Consultant's services under this Agreement are being performed solely for the Client's benefit, and no other party or entity shall have any claim against the Consultant because of this Agreement or the performance or nonperformance of services hereunder.

B. Schedule

1. Unless specific periods of time or dates for providing services are specified, Consultant's obligation to render services hereunder will be for a period which may reasonably be required for the completion of said services.
2. If Client has requested changes in the scope, extent, or character of the Project or the services to be provided by Consultant, the time of performance and compensation for Consultant's services shall be adjusted equitably. The Client agrees that Consultant is not responsible for damages arising directly or indirectly from delays beyond Consultant's control. If the delays resulting from such causes increase the cost or the time required by Consultant to perform its services in accordance with professional skill and care, then Consultant shall be entitled to a equitable adjustment in schedule and compensation.

C. Additional Services

1. If Consultant determines that any services it has been directed or requested to perform are beyond the scope as set forth in the Agreement or that, due to changed conditions or changes in the method or manner of administration of the Project, Consultant's effort required to perform its services under this Agreement exceeds the stated fee for Basic Services, then Consultant shall promptly notify the Client regarding the need for additional services. Upon notification and in the absence of a written objection, Consultant shall be entitled to additional compensation for the additional services, and to an extension of time for completion of additional services absent written objection by Client.
2. Additional services shall be billed in accord with agreed upon rates, or if not addressed, then at Consultant's standard rates.

D. Suspension and Termination

1. If Consultant's services are delayed or suspended in whole or in part by Client, or if Consultant's services are delayed by actions or inactions of others for more than 60 days through no fault of Consultant, then Consultant shall be entitled to either terminate its agreement upon 7 days written notice or, at its option, accept an equitable adjustment of rates and amounts of compensation provided for elsewhere in this Agreement to reflect reasonable costs incurred by Consultant.
2. This Agreement may be terminated by either party upon seven days written notice should the other party fail substantially to perform in accordance with its terms through no fault of the party initiating the termination.
3. This Agreement may be terminated by either party upon thirty days' written notice without cause. All provisions of this Agreement allocating responsibility or liability between the Client and Consultant shall survive the completion of the services hereunder and/or the termination of this Agreement.
4. In the event of termination, Consultant shall be compensated for services performed prior to termination date, including charges for expenses and equipment costs then due and all termination expenses.

SECTION II – CLIENT RESPONSIBILITIES

A. General

1. The Client shall, in proper time and sequence and where appropriate to the Project, at no expense to Consultant, provide full information as to Client's requirements for the services provided by Consultant and access to all public and private lands required for Consultant to perform its services.
2. The Consultant is not a municipal advisor and therefore Client shall provide its own legal, accounting, financial and insurance counseling and other special services as may be required for the Project. Client shall provide to Consultant all data (and professional interpretations thereof) prepared by or services performed by others pertinent to Consultant's services, including but not limited to, previous reports; sub-surface explorations; laboratory tests and inspection of samples; environmental assessment and impact statements, surveys, property descriptions; zoning, deed and other land use restrictions; as-built drawings, electronic data base and maps. The costs associated with correcting, creating or recreating any data that is provided by the Client that contains inaccurate or unusable information shall be the responsibility of the Client.
3. Client shall provide prompt written notice to Consultant whenever the Client observes or otherwise becomes aware of any changes in the Project or any defect in Consultant's services. Client shall promptly examine all studies, reports, sketches, opinions of construction costs, specifications, drawings, proposals, change orders, supplemental agreements and other documents presented by Consultant and render the necessary decisions and instructions so that Consultant may provide services in a timely manner.
4. Client shall require all utilities with facilities within the Client's Project site to locate and mark said utilities upon request, relocate and/or protect said utilities as determined necessary to accommodate work of the Project, submit a schedule of the necessary relocation/protection activities to the Client for review and comply with agreed upon schedule. Consultant shall not be liable for damages which arise out of Consultant's reasonable reliance on the information or services furnished by utilities to Client or others hired by Client.
5. Consultant shall be entitled to rely on the accuracy and completeness of information or services furnished by the Client or others employed by the Client and shall not be liable for damages arising from reasonable reliance on such materials. Consultant shall promptly notify the Client if Consultant discovers that any information or services furnished by the Client is in error or is inadequate for its purpose.

SECTION III – PAYMENTS

A. Invoices

1. Undisputed portions of invoices are due and payable within 30 days. Client must notify Consultant in writing of any disputed items within 15 days from receipt of invoice. Amounts due Consultant will be increased at the rate of 1.0% per month (or the maximum rate of interest permitted by law, if less) for invoices 30 days past due. Consultant reserves the right to retain Instruments of Service until all invoices are paid in full. Consultant will not be liable for any claims of loss, delay, or damage by Client for reason of withholding services or Instruments of Service until all invoices are paid in full. Consultant shall be entitled to recover all reasonable costs and disbursements, including reasonable attorney's fees, incurred in connection with collecting amounts owed by Client.
2. Should taxes, fees or costs be imposed, they shall be in addition to Consultant's agreed upon compensation.
3. Notwithstanding anything to the contrary herein, Consultant may pursue collection of past due invoices without the necessity of any mediation proceedings.

SECTION IV – GENERAL CONSIDERATIONS

A. Standards of Performance

1. The standard of care for all professional engineering and related services performed or furnished by Consultant under this Agreement will be the care and skill ordinarily exercised by members of Consultant's profession practicing under similar circumstances at the same time and in the same locality. Consultant makes no warranties, express or implied, under this Agreement or otherwise, in connection with its services.
2. Consultant neither guarantees the performance of any Contractor nor assumes responsibility for any Contractor's failure to furnish and perform the work in accordance with its construction contract or the construction documents prepared by Consultant. Client acknowledges Consultant will not direct, supervise or control the work of construction contractors or their subcontractors at the site or otherwise. Consultant shall have no authority over or responsibility for the contractor's acts or omissions, nor for its means, methods or procedures of construction. Consultant's services do not include review or evaluation of the Client's, contractor's or subcontractor's safety measures, or job site safety or furnishing or performing any of the Contractor's work.
3. If requested in the scope of a Supplemental Letter Agreement, then Consultant may provide an Opinion of Probable Construction Cost. Consultant's Opinions of Probable Construction Cost provided for herein are to be made on the basis of Consultant's experience and qualifications and represent Consultant's best judgment as a professional generally familiar with the industry. However, since Consultant has no control over the cost of labor, materials, equipment or service furnished by others, or over the Contractor's methods of determining prices, or over competitive bidding or market conditions, Consultant cannot and does not guarantee that proposals, bids or actual construction cost will not vary from Opinions of Construction Cost prepared by Consultant. If Client wishes greater assurance as to probable Construction Cost, Client shall employ an independent cost estimator or negotiate additional services and fees with Consultant.

B. Indemnity for Environmental Issues

1. Consultant is not a user, generator, handler, operator, arranger, storer, transporter or disposer of hazardous or toxic substances, therefore the Client agrees to hold harmless, indemnify and defend Consultant and Consultant's officers, directors, subconsultant(s), employees and agents from and against any and all claims, losses, damages, liability and costs, including but not limited to costs of defense, arising out of or in any way connected with, the presence, discharge, release, or escape of hazardous or toxic substances, pollutants or contaminants of any kind at the site.

C. Limitations on Consultant's Liability

1. The Client hereby agrees that to the fullest extent permitted by law, Consultant's total liability to the Client for any and all injuries, claims, losses, expenses, or damages whatsoever arising out of or in any way related to the Project or this Agreement from any cause or causes including, but not limited to, Consultant's negligence, errors, omissions, strict liability, breach of contract or breach of warranty shall not exceed five hundred thousand dollars (\$500,000). In the event Client desires limits of liability in excess of those provided in this paragraph, Client shall advise Consultant in writing and agree that Consultant's fee shall increase by 1% for each additional five hundred thousand dollars of liability limits, up to a maximum limit of liability of five million dollars (\$5,000,000).
2. Neither Party shall be liable to the other for consequential damages, including, without limitation, lost rentals, increased rental expenses, loss of use, loss of income, lost profit, financing, business and reputation and for loss of management or employee productivity, incurred by one another or their subsidiaries or successors, regardless of whether such damages are foreseeable and are caused by breach of contract, willful misconduct, negligent act or omission, or other wrongful act of either of them.
3. It is intended by the parties to this Agreement that Consultant's services shall not subject Consultant's employees, officers or directors to any personal legal exposure for the risks associated

with this Agreement. The Client agrees that as the Client's sole and exclusive remedy, any claim, demand or suit shall be directed and/or asserted only against Consultant, and not against any of Consultant's individual employees, officers or directors, and Client knowingly waives all such claims against Consultant individual employees, officers or directors.

D. Assignment

1. Neither party to this Agreement shall transfer, sublet or assign any rights under, or interests in, this Agreement or claims based on this Agreement without the prior written consent of the other party. Any assignment in violation of this subsection shall be null and void.

SECTION V – DISPUTE RESOLUTION

A. Mediation

1. Any dispute between Client and Consultant arising out of or relating to this Agreement or services provided under this Agreement, (except for unpaid invoices which are governed by Section III), shall be submitted to nonbinding mediation as a precondition to litigation unless the parties mutually agree otherwise. Mediation shall occur within 60 days of a written demand for mediation unless Consultant and Client mutually agree otherwise.

B. Litigation – Choice of Venue and Jurisdiction

1. Any dispute not settled through mediation shall be settled through litigation in the state where the Project at issue is located.

SECTION VI – INTELLECTUAL PROPERTY

A. Proprietary Information

1. All documents, including reports, drawings, calculations, specifications, CADD materials, computers software or hardware or other work product prepared by Consultant pursuant to this Agreement are Consultant's Instruments of Service ("Instruments of Service") and Consultant retains all ownership interests in Instruments of Service, including all available copyrights.
2. Consultant shall retain all of its rights in its proprietary information including, without limitation, its methodologies and methods of analysis, ideas, concepts, expressions, inventions, know how, methods, techniques, skills, knowledge and experience possessed by Consultant prior to, or acquired by Consultant during, the performance of this Agreement and the same shall not be deemed to be Work Product or Work for Hire and Consultant shall not be restricted in any way with respect thereto.

B. Client Use of Instruments of Service

1. Provided that Consultant has been paid in full for its services, Client shall have the right in the form of a license to use Instruments of Service resulting from Consultant's efforts on the Project. Consultant shall retain full rights to electronic data and the drawings, specifications, including those in electronic form, prepared by Consultant and its subconsultants and the right to reuse component information contained in them in the normal course of Consultant's professional activities. Consultant shall be deemed to be the author of such Instruments of Service, electronic data or documents, and shall be given appropriate credit in any public display of such Instruments of Service.
2. Records requests or requests for additional copies of Instruments of Services outside of the scope of services are available to Client subject to Consultant's current rate schedule.

C. Reuse of Documents

1. All Instruments of Service prepared by Consultant pursuant to this Agreement are not intended or represented to be suitable for reuse by the Client or others on extensions of the Project or on any other Project. Any reuse of the Instruments of Service without written consent or adaptation by Consultant for the specific purpose intended will be at the Client's sole risk and without liability or legal exposure to Consultant; and the Client shall release Consultant from all claims arising from such use. Client shall also defend, indemnify and hold harmless Consultant from all claims, damages, losses and expenses including attorneys' fees arising out of or resulting from reuse of Consultant documents without written consent.

Exhibit A-1
to Agreement for Professional Services
Between City of Mequon (Client)
and
Short Elliott Hendrickson Inc. (Consultant)
Dated March 23, 2022

Payments to Consultant for Services and Expenses
Using the Hourly Basis Option

The Agreement for Professional Services is amended and supplemented to include the following agreement of the parties:

A. Hourly Basis Option

The Client and Consultant select the hourly basis for payment for services provided by Consultant. Consultant shall be compensated monthly. Monthly charges for services shall be based on Consultant's current billing rates for applicable employees plus charges for expenses and equipment.

Consultant will provide an estimate of the costs for services in this Agreement. It is agreed that after 90% of the estimated compensation has been earned and if it appears that completion of the services cannot be accomplished within the remaining 10% of the estimated compensation, Consultant will notify the Client and confer with representatives of the Client to determine the basis for completing the work.

Compensation to Consultant based on the rates is conditioned on completion of the work within the effective period of the rates. Should the time required to complete the work be extended beyond this period, the rates shall be appropriately adjusted.

B. Expenses

The following items involve expenditures made by Consultant employees or professional consultants on behalf of the Client. Their costs are not included in the hourly charges made for services and shall be paid for as described in this Agreement but instead are reimbursable expenses required in addition to hourly charges for services:

1. Transportation and travel expenses.
2. Long distance services, dedicated data and communication services, teleconferences, Project Web sites, and extranets.
3. Lodging and meal expense connected with the Project.
4. Fees paid, in the name of the Client, for securing approval of authorities having jurisdiction over the Project.
5. Plots, Reports, plan and specification reproduction expenses.
6. Postage, handling and delivery.
7. Expense of overtime work requiring higher than regular rates, if authorized in advance by the Client.
8. Renderings, models, mock-ups, professional photography, and presentation materials requested by the Client.
9. All taxes levied on professional services and on reimbursable expenses.
10. Other special expenses required in connection with the Project.
11. The cost of special consultants or technical services as required. The cost of subconsultant services shall include actual expenditure plus 10% markup for the cost of administration and insurance.

The Client shall pay Consultant monthly for expenses.

C. Equipment Utilization

The utilization of specialized equipment, including automation equipment, is recognized as benefiting the Client. The Client, therefore, agrees to pay the cost for the use of such specialized equipment on the project. Consultant invoices to the Client will contain detailed information regarding the use of specialized equipment on the project and charges will be based on the standard rates for the equipment published by Consultant.

The Client shall pay Consultant monthly for equipment utilization.

c:\data\work\166364.mequon ls e emergency pump\bush\word\20220323 exhibit a1.docx

Exhibit C - On-Call Inspection

Bloom Consultants

Task	Task Description - Sewer Lateral Work	Hours	Fee
11	Inspect Various Sewer Main and Building Sewer Lateral Work in the Right of Way (on call service Inspection for Site Development)	80	\$6,896
12	Inspect Various Sewer Main, Manhole and Building Sewer Lateral Work in the Right of Way (on call service Inspection for I-43 and STH 57 Utility Coordination)	80	\$6,896
	<i>Sub-Total (Tasks 11-12) Various On Call Inspections</i>		\$13,792

raSmith

Task Description – Sewer Lateral Work	Fee
11 — Inspect Various Sewer Main and Building Sewer Lateral Work in the Right of Way (on call service Inspection for Site Development) (80 hours) <i>Pape/Jankowski (80 hours @ \$105/hour)</i>	\$8,400.00
12 — Inspect Various Sewer Main, Manhole and Building Sewer Lateral Work in the Right of Way (on call service inspection for I-43 and STH 57 Utility Coordination) (80 hours) <i>Pape/Jankowski (80 hours @ \$105/hour)</i>	\$8,400.00
<i>Sub-Total (Tasks 11-12) Various On Call Inspections</i>	\$16,800.00

March 23, 2022

Mr. Kevin Driscoll, PE
Deputy Director of Utilities
City of Mequon
11333 N. Cedarburg Road 60W
Mequon, WI 53092
kdriscoll@ci.mequon.wi.us

RE: Proposed Contract for Professional Engineering Services
2021 Sanitary Manhole Inspections (#3501-22)

Dear Kevin,

Kapur is pleased to submit this proposed contract to provide professional engineering services for the referenced project. The following contract includes manhole inspections and a report of findings and repair recommendations.

SCOPE OF SERVICES

The provided scope of services shall remain as previously submitted. The timeline for report submittal shall be revised as suggested below. See attached original proposal letter dated October 28, 2021.

SCHEDULE

Kapur will begin work upon authorization. Due to the change in the original project schedule, and prior construction inspection commitments, Kapur will complete all manhole inspections and submit the report to City of Mequon by no later than September 21, 2022.

FEES AND BILLINGS

The costs are time & material and as provided in the attached cost tabulation provided to the City with the original proposal letter.

ACCEPTANCE

If this proposal is acceptable, please sign and date this original copy on Standard General Contract Terms and return it to our office.

Thank you for the opportunity to submit this proposed contract. We look forward to working with you on this project. Should you have any questions, or require further information, please call us at (414) 751-7200.

STANDARD GENERAL CONTRACT TERMS FOR PROFESSIONAL ENGINEER/SURVEY SERVICES

Article 1 Scope of Services

ENGINEER shall provide CLIENT with services in connection with the Project as described in Scope of Services. ENGINEER shall use the standard of care typically exercised in conducting professional practices outlined in the Scope of Services. ENGINEER makes no warranties, express or implied, under this Agreement or otherwise, in connection with the ENGINEER's service.

Unless otherwise specifically included in the proposal, ENGINEER's scope of services does not include geotechnical or environmental audits for the identification of hazardous wastes, wetlands, floodplains or any other structural or environmental qualities of the land, air or water.

Article 2 Schedule of Services

ENGINEER shall start and complete work as set forth in the Scope of Services. ENGINEER shall conduct the work in an expeditious manner subject to limitations such as weather, information acquisition, communications and other factors outside of ENGINEER's control. Both parties recognize that the schedule of services is subject to factors that may be unknown at the time of this Agreement.

Article 3 CLIENT's Responsibility

CLIENT shall do the following in a timely manner so as not to delay the service of ENGINEER:

3.1 Provide all criteria and full information as to CLIENT's requirements for the Project, including design objectives and constraints.

3.2 Assist ENGINEER by placing at ENGINEER's disposal all available information pertinent to the Project including previous reports and any other data relative to design or construction of the Project; all of which the ENGINEER may use and rely upon in performing the services under this Agreement. Verification of the accuracy and completeness of any information provided by the CLIENT is beyond the scope of this agreement.

Article 4 Payment Terms

CLIENT agrees to pay all fees within 45 days of the date of the invoice. Balances due over 45 days will be assessed an interest rate of 1.5 % per month. CLIENT agrees to pay for any costs of collection including, but not limited to lien costs, court costs or attorneys' fees involved in or arising out of collecting any unpaid or past due balances.

CLIENT understands and agrees to pay for all services rendered regardless of CLIENT's ability or inability to proceed with the project for any reason, gain governmental approvals or permits or secure financing for the project.

Article 5 Term and Termination

ENGINEER's obligation to render services under this Agreement will extend for a period that may reasonably be required for the services to be provided, including extra work and required extensions. If CLIENT fails to give prompt authorization to proceed with any phase of services after completion of the immediately preceding phase, or if ENGINEER's services are delayed or suspended by CLIENT for more than three months for reasons beyond ENGINEER's control, ENGINEER may, after giving seven days' written notice to CLIENT, suspend or terminate services under this Agreement.

If payment is not received within 45 days of the date of invoice, ENGINEER reserves the right, after giving seven days' written notice to CLIENT, to suspend services to the CLIENT or to terminate this Agreement. ENGINEER shall not be liable to CLIENT or any third parties for any damages caused by the suspension or termination of work for non-payment. CLIENT may terminate this Agreement for any reason or without cause upon 30 days' written notice to ENGINEER. If any work covered by this Agreement is suspended, terminated or abandoned for any reason other than ENGINEER'S breach of the Agreement, the CLIENT shall compensate the ENGINEER for

services rendered to the date of written notification of such suspension, termination or abandonment.

Article 6 Indemnity

CLIENT and ENGINEER each agree to indemnify and hold the other harmless, and their respective officers, employees, agents and representatives, from and against liability for all claims, losses, damages and expenses, including reasonable attorneys' fees, to the extent such claims, losses, damages or expenses are caused by the indemnifying party's negligent or intentional acts, errors or omissions. In the event claims, losses, damages or expenses are caused by the joint or concurrent negligence of CLIENT and ENGINEER, they shall be borne by each party in proportion to its negligence. Nothing contained within this Agreement is intended to be a waiver or estoppel of the contracting municipality CLIENT or its insurer to rely upon the limitations, defenses, and immunities contained within Wisconsin law, including those contained within Wisconsin Statutes §§ 893.80, 895.52, and 345.05. To the extent that indemnification is available and enforceable, the municipality CLIENT or its insurer shall not be liable in indemnity or contribution for an amount greater than the limits of liability for municipal claims established by Wisconsin Law.

Article 7 Ownership and Copyright of Documents

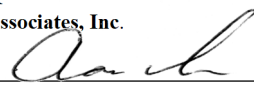
All documents prepared or furnished by ENGINEER pursuant to this Agreement are instruments of ENGINEER's professional service, and ENGINEER shall retain an ownership and property interest therein, including all copyrights. ENGINEER grants CLIENT a license to use instruments of ENGINEER's professional service for the purpose of purchasing or identifying property or constructing the project. Reuse or modification of any such documents by CLIENT, without ENGINEER's written permission, shall be at CLIENT's sole risk, and CLIENT agrees to indemnify and hold ENGINEER harmless from all claims, damages and expenses, including attorneys' fees, arising out of such use by CLIENT or by others acting through the CLIENT.

Article 8 Electronic Media

Copies of documents that may be relied upon by the CLIENT are limited to the printed copies (also known as hard copies) that are signed or sealed by ENGINEER. Files in electronic formats, or other types of information furnished by ENGINEER to CLIENT such as text, data or graphics, are only for the convenience of CLIENT. Any conclusion or information obtained or derived from such electronic files will be at the user's sole risk. When transferring documents in electronic formats, ENGINEER makes no representations as to long-term compatibility, usability, or readability of documents resulting from the use of software applications packages, operating systems or computer hardware differing from those in use by ENGINEER at the beginning of this project.

ENGINEER

Kapur & Associates, Inc.

By: 
Print: Aaron Groh
Title: Associate/Milwaukee Municipal Manager
Date: 3/23/2022

The above and foregoing proposal is hereby accepted and ENGINEER is authorized to proceed with the work.

CLIENT

City of Mequon

By: _____
Print: _____
Title: _____
Date: _____



7711 N. Port Washington Road
Milwaukee, WI 53217
T: 414.751.7200 • F: 414.351.4117

October 28, 2021

Mr. Kevin Driscoll, PE
Deputy Director of Utilities
City of Mequon
11333 N. Cedarburg Rd. 60W
Mequon, WI 53092

RE: Proposal for Sanitary Manhole Inspections (#3501-22)

Dear Kevin,

Kapur is pleased to submit this proposal to the City of Mequon to provide professional engineering services for manhole inspections and a report of findings and repair recommendations. Our goal is simple: to deliver cost-effective and sound engineering.

Kapur is a multi-discipline consulting engineering firm with a corporate office on the northeast side of Milwaukee and branch offices in Burlington, Appleton, Wausau and Chicago. Established in 1981, Kapur presently employs over 350 professionals providing services to public and private clients. Below is a list of the services provided by our firm:

- | | | |
|--------------------|--------------------------|---------------------------|
| • Municipal | • Land Survey / Platting | • Conveyance |
| • Transportation | • Utilities | • Landscape Architecture |
| • Structural | • Wastewater | • Construction Management |
| • Site Development | • Electrical | • Construction Inspection |
| • Environmental | • GIS | |

PROJECT TEAM

Aaron Groh, PE - Associate/Milwaukee Municipal Manager: Aaron is responsible for leading the team. He has managed, designed and prepared numerous similar type projects for various municipalities over the past 22 years. As Kapur's Municipal Manager, he is experienced in working with multiple stakeholders, coordinating with regulatory agencies, and maintaining tight schedules and budgets.

Matt Laufer, PE - Project Engineer: Matt is a project engineer with 24 years of experience designing, preparing and managing similar types of projects for various municipalities. Matt has successfully investigated, designed, organized and implemented private property infiltration/inflow reduction programs for several municipalities. Matt will perform QaQc for this project. Matt is NASSCO certified and will coordinate with staff engineers for the sanitary manhole inspections, findings and recommendations.

Robert Maas, Staff Engineer: Robert is a staff engineer with three years of construction management experience. This past year, Robert has worked with contractors performing CIPP lining, sanitary lateral and water service replacement and repairs, and performed manhole surface inspections. Robert is NASSCO certified will perform manhole inspections, prepare the report and enter data into the City's GIS.

Lucas Schalch, Engineering Technician: Lucas is an engineering technician with one year of construction inspection experience. Lucas has inspected storm and sanitary manholes as a part of his projects in Greenfield and Fox Point. Lucas will perform manhole inspections and assist Robbie with data gathering.



RELEVANT RECENT PROJECTS

2020 Sanitary Manhole Inspections (#3501-20), City of Mequon, WI: Kapur performed the inspection of 323 manholes. Inspections included evaluating current condition of manholes, providing photographs of manhole conditions, and providing rehabilitation recommendations.

Contact: Kevin Driscoll, Deputy Director of Utilities, City of Mequon, (262) 236-2937

2007-2021 Greenfield Streets, City of Greenfield, WI: Kapur has been providing engineering services to repair streets throughout the City of Greenfield. As part of the evaluation, manhole inspections were performed before and after each project to identify manholes in need of repair or replacement.

Contact: Bryan Haas, Project Engineer, City of Greenfield, 414-329-5324

CCTV and MH Evaluation and Bidding Documents, Village of Kohler: Kapur performed an evaluation and recommendation of 20,000 LF of sanitary sewers and associated 135 sanitary manholes and developed a bidding documents for the recommended rehabilitation.

Contact: Brett Edgerle, Public Works Superintendent, Village of Kohler, 920-459-3881

2010-2021 Sanitary Sewer Main I&I Investigation/SSES - Private Property Infiltration/Inflow Reduction: Kapur has provided engineering support services to investigate over 100,000 L.F. of sanitary sewer main, approximately 50,000 L.F. of sanitary sewer laterals, and over 250 sanitary manholes in various basins within the villages of Fox Point and Bayside. Work was performed in strict compliance with the pipeline and manhole assessment and certification program established by NASSCO. Data was gathered and assembled in a final report with recommendations for rehabilitation.

Contact: Scott Brandmeier, DPW/Village Engineer, Village of Fox Point, 414-351-8900

2002-2021 Sanitary Sewer Rehabilitation Program, Village of Fox Point WI: Rehabilitation of over 15 miles of deteriorated sanitary sewer collection system with construction costs of over \$2.5 million. Projects included design and specifications for various methods of sanitary sewer rehabilitation. Rehabilitation of sanitary sewer system consisted of approximately 30,000 feet of cured in place pipe relining, 25,000 locations of sewer joint testing and sealing, 250 sanitary manholes (lining, grouting, tuck-pointing, replacement of structural parts), and numerous spot repairs of risers and lateral replacements.

Contact: Scott Brandmeier, DPW/Village Engineer, Village of Fox Point, 414-351-8900

PROJECT SCOPE

Work will adhere to the Scope of Services and Schedule in the RFP. Additional information provided below.

Upon Notice to Proceed and reviewing the existing data, the Kapur team will inform City Staff of the scheduled areas of inspection and perform sanitary manhole inspections. The Kapur team will evaluate the existing conditions, identify state of disrepair, and provide recommendations.

Kapur will provide an electronic compilation of the gathered data to easily identify structures in greatest need of repair. This is an important piece of information for the City to utilize for future capital improvement planning and budgeting.

The Manhole Inspection Report forms will be provided in electronic format (.xls) to the City.



Where necessary, Kapur will perform manhole inspections mornings prior to the morning rush. This will ensure performing inspections under heavy traffic. Advanced warning signs and cones will be used to perform inspections under daytime low traffic conditions.

COST

The costs are time & material and as provided in the attached cost tabulation. Rates are included as requested. If any manholes in the designated areas are not easily found or inaccessible, additional time will be added to compensate for lost time. Assistance may be requested to the City staff to open bolted lids or covers that we are unable to open.

Our commitment to each of our clients is to improve the standard of living and quality of life in their community. We meet this commitment by understanding your community, surpassing the expectations of the residents and City staff, and delivering exactly what you need. No more, no less.

Our team of professionals is immediately available and ready to assist the City of Mequon. We appreciate the opportunity to submit this proposal and look forward to your review and feedback. Please contact me at 414.751.7213 or agroh@kapurinc.com with any questions regarding our proposal.

Sincerely,

Aaron Groh, P.E.
Associate / Milwaukee Municipal Manager

**SANITARY MANHOLE INSPECTIONS
#3501-22
CITY OF MEQUON, WISCONSIN**

	TASK	Project Manager	Project Engineer II	Staff Engineer	Inspector	GIS Technician	Total Task Hours	Total Task Cost
		\$168.00	\$119.00	\$96.00	\$87.00	\$87.00		
Task 1	Area 1 - North of Highland Road, West of the Milwaukee River							
1.1	Data Gathering				2	1	3	\$261.00
1.2	Inspect 11 Manholes (Range 21, Section 12) 0112.###			1	2		3	\$270.00
1.3	Report with Recommendations		1	1			2	\$215.00
Total Area 1:		0	1	2	4	1	8	\$746.00
Task 2	Area 2 - River Road, Highland Road, Village of Theinsville Limits							
2.1	Data Gathering				2	1	3	\$261.00
2.2	Inspect 41 Manholes (Range 21, Section 14) 0614.### & 114.###			4	4		8	\$732.00
2.3	Report with Recommendations		1	2	2		5	\$485.00
Total Area 2:		0	1	6	8	1	16	\$1,478.00
Task 3	Area 3 - Freistadt Road, Wauwatosa Road, Mequon Road, Milwaukee River, Village of Theinsville Limits							
3.1	Data Gathering				2	1	3	\$261.00
3.2	Inspect 148 Manholes (Range 21, Section 22) 1022.###			10	20		30	\$2,700.00
3.3	Report with Recommendations	1	2	4	8		15	\$1,486.00
Total Area 3:		1	2	14	30	1	48	\$4,447.00
Task 4	Area 4 - Mequon Rd, Wauwatosa Rd, Swan Rd, Donges Bay Rd							
4.1	Data Gathering				2	1	3	\$261.00
4.2	Inspect 53 Manholes (Range 21, Section 22) 1022.###			3	8		11	\$984.00
4.3	Report with Recommendations	1	1	2	4		8	\$827.00
Total Area 4:		1	1	5	14	1	22	\$2,072.00
Task 5	Area 5 - Mequon Road, Wauwatosa Road, Donges Bay Road, Railroad Tracks							
5.1	Data Gathering				2	1	3	\$261.00
5.2	Inspect 217 Manholes (Range 21, Section 27) 0827.###			14	30		44	\$3,954.00
5.3	Report with Recommendations	1	3	8	16		28	\$2,685.00
Total Area 5:		1	3	22	48	1	75	\$6,900.00
Task 6	Area 6 - County Line Road, Baehr Road, Donges Bay Road, Cedarburg Road							
6.1	Data Gathering				2	1	3	\$261.00
6.2	Inspect 80 Manholes (Range 21, Section 35) 0835.###			5	11		16	\$1,437.00
6.3	Report with Recommendations		1	3	5		9	\$842.00
Total Area 6:		0	1	8	18	1	28	\$2,540.00
Task 7	Area 7 - Donges Bay Road, River Road, Mequon Road, Range Line Road							
7.1	Data Gathering				2	1	3	\$261.00
7.2	Inspect 192 Manholes (Range 21, Section 25) 0725.###			13	26		39	\$3,510.00
7.3	Report with Recommendations	1	2	8	16		27	\$2,566.00
Total Area 7:		1	2	21	44	1	69	\$6,337.00
Task 8	Area 8 - Highland Road, Port Washington Road, Milwaukee River, Helen Drive							
8.1	Data Gathering				2	1	3	\$261.00
8.2	Inspect 45 Manholes (Range 22, Section 7) 0107.###			3	6		9	\$810.00
8.3	Report with Recommendations		1	2	4		7	\$659.00
Total Area 8:		0	1	5	12	1	19	\$1,730.00
Total Fees for Eight (8) Areas Combined:		4	12	83	178	8	285	\$26,250.00

Attachment: Exhibit D - Kapur SMH Inspections (#3501-22) (RESOLUTION 3947 : 2022 Sanitary Sewer Projects and Improvements)

8. QUANTITIES
Exhibit E - Northern Pipe Quote
Sonde Locate Laterals (#3566-22-S)

Work to be completed consistent with 02730 Sonde Locating Laterals, Section 02733 Cleaning Sanitary Laterals, Section 02820 Restoration, and Section 02860 Traffic Control.

PRICE SCHEDULE – Base Items

ITEM NUMBER	ITEM	UNIT	EST. QUANTITY	UNIT PRICE	TOTAL
1	Traffic Control	LS	1	\$1,500	\$1,500.00
2	Sonde Lateral Locating from Mainline to ROW (45 Lateral Locations)	LF	1,382	\$4.89	\$6,757.98
3	Sonde Lateral Locating from Mainline to Building Foundation (110 Lateral Locations)	LF	11,414	\$4.89	\$55,814.46
4	Sonde Lateral Locating from Manhole to ROW (4 Lateral Locations)	LF	96	\$4.89	\$469.44
5	Sonde Lateral Locating from Manhole to Building Foundation (18 Lateral Locations)	LF	2,077	\$4.89	\$10,156.53
Total of Items (1 to 5):					\$74,698.41

Contract Price: Total Items 1 through 5

Seventy-Four Thousand Six Hundred Ninety Eight Dollars and Forty One Cents

Written

\$74,698.41

Figures

PRICE SCHEDULE – Additive Items

ITEM NUMBER	ITEM	UNIT	EST. QUANTITY	UNIT PRICE	TOTAL
6	IF AUTHORIZED, Sonde Launch from Yard Cleanout	EA	29	\$125.00	\$3,625.00
7	IF AUTHORIZED, Sonde Launch from Internal Building Cleanout	EA	99	\$200.00	\$19,800.00
8	ALLOWANCE for Lateral Cleaning	HR	40	\$150	\$6,650
9	ALLOWANCE for Metered Water Consumed and Reported during Cleaning Operations	LS	1	\$1,500	\$1,500
10	ALLOWANCE for Yard Restoration	SY	20	\$50	\$1,000
11	ALLOWANCE for Lateral Configuration	HR	8	\$125	\$1,000
Total of Items (6 to 11):					\$33,575.00

Attachment: Exhibit E - Northern Pipe Sonde Locating Quote (RESOLUTION 3947 : 2022 Sanitary Sewer Projects and Improvements)

Contract Price: Total Additive Items 6 through 11

Thirty-Three Thousand Five Hundred Seventy Five Dollars

Written

\$ 33,575.00

Figures

Attachment: Exhibit E - Northern Pipe Sonde Locating Quote (RESOLUTION 3947 : 2022 Sanitary Sewer Projects and Improvements)

Exhibit F - Bloom

City of Mequon - Consultant Inspection Services for Various Work on Building Sewer Laterals and Sanitary Sewer Mains

	Staff	Andrew Plier, PE	Christina Barry, PE	Helen John	Will Brown	Leann Wurtzinger			
	Project Role	Project Manager	Construction Manager / Senior Engineer	Staff Engineer / Backup Resident Inspector 2	Primary Resident Inspector	Survey Tech / Backup Resident Inspector 1			
	Rate (\$/Hr)	\$158	\$122	\$93	\$78	\$75		Task Totals	
Task No		Hours	Hours	Hours	Hours	Hours	*Expenses	Hours	Costs (\$K)
	Construction Inspection Services								
4	Sonde Locating (25 days)	0	0	0	150	50	\$700	200	\$16,150

Resolution (RESOLUTION 3947 : 2022 Sanitary Sewer

Kevin Driscoll

From: Andrew Plier <aplier@bloomcos.com>
Sent: Friday, March 25, 2022 4:17 PM
To: Ashton Hoxworth; Engineering Shared Mailbox
Cc: Kevin Driscoll
Subject: RE: Bloom Proposal - Consultant Inspection Services for Various Work on Building Sewer Laterals and Sanitary Sewer Mains
Attachments: LOE Cost Spreadsheet_Contract Negotiation Update.pdf

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Kevin,
 See the attached updated LOE spreadsheet.

Bloom understands and agrees to move forward with being awarded item #4.
 As part of this PO, it will also include a time and material not to exceed dollar amount of \$5,000 for construction administrative services (items 1-3).
 The total contract dollar amount for this effort will be \$21,150

Items 5-7 will be awarded at a later date, **if authorized**. Additional budget will be added for Construction Administrative Services (items 1-3), as needed, as the additional Construction Inspection Services (items 5-7) are awarded; with a total Construction Administrative Services Dollar Amount NTE \$23,720 if all Construction Inspection Services are authorized.

Bloom also understands and agrees to move forward with Various On Call Inspections, under a separate PO, for the stated time and material not to exceed dollar amount of \$13,792.

Please let me know if you have any comments, questions, or concerns.
 We look forward to the opportunity to work with you on this project.

Respectfully,

Andrew Plier, P.E.
 Civil Engineering Manager
 Bloom Companies, LLC
 10501 W. Research Drive, Suite 100
 Milwaukee, WI 53226
 Main: 414-771-3390
 Direct: 414-292-4519
 Cell: 414-303-6825
www.bloomcos.com



From: Ashton Hoxworth [mailto:ahoxworth@bloomcos.com]
Sent: Thursday, March 24, 2022 12:53 PM
To: engineering@ci.mequon.wi.us
Cc: Andrew Plier
Subject: Bloom Proposal - Consultant Inspection Services for Various Work on Building Sewer Laterals and Sanitary Sewer Mains

Attachment: Exhibit F - Bloom Sewer Lateral Inspection (RESOLUTION 3947 : 2022 Sanitary Sewer Projects and Improvements)

Good afternoon Kevin,

Please see Bloom's attached proposal in response to RFP Consultant Inspection Services for Various Work on Building Sewer Laterals and Sanitary Sewer Mains. Please do not hesitate to reach out to Andrew Plier (cc'd) with any questions. Thank you for the opportunity to submit a proposal on this project.

Respectfully submitted,

Ashton

--

Ashton Hoxworth

MARKETING MANAGER | **BLOOM COMPANIES, LLC**

10501 W. Research Drive, Suite 100

Milwaukee, WI 53226

D: 414-292-4526

C: 262-224-4320

Milwaukee | Madison | Green Bay | Chicago | Minneapolis | Bloomcos.com

2022 SEWER CAPITAL PROJECT FUND

The Sewer Utility applies user fees to provide capital self-funding. The types of projects included in the Sewer Capital Project Fund are based upon an expected life-cycle of greater than 10 years, where a depreciable asset value is established.

The utility has been successful in self-funding a number of projects. These projects are improvements to extend the service life of the system, add capacity and provide efficiency in addition to keeping the collection system functional and avoiding non-compliance. In the last decade, past projects funded from reserves include lift station pump and force main replacements, all three phases of the Cedarburg Road Mequon-Thiensville Interceptor Rehabilitation, and various subdivision gravity sewer pipe rehabilitation projects, including grouting and cured-in-place pipe lining installations. By providing capital funding for these projects, user rates have remained stable.

Table 1 – History of Self-Funded Capital Budgets

	2016	2017	2018	2019	2020	2021
Self-Funding Capital	\$500,000	\$1,000,000	\$1,040,000	\$720,000	\$1,420,000	\$1,350,000

In 2019, accounts were established for consolidation into five universal sinking fund accounts. This accounting format replaced individual accounts of specific projects for various reasons. The new categorical accounts allow the Sewer Utility to meet long-term needs rather than being project specific. In addition, the funds formed by periodically setting aside money for the replacement of assets give the Sewer Utility the long-term financial ability to perform required capital projects. These sinking funds earmark or reserve funds for specific purposes and categories, rather than only for specific projects. The overall funding levels remain unchanged, only the allocation of funds was modified.

Table 2 – Self-Funded Capital Funds

Account Name	2022	2023	2024	2025	2026
1. Gravity Sanitary Sewer Fund	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
2. Sanitary Lift Station Fund	\$630,000	\$650,000	\$650,000	\$550,000	\$550,000
3. Sanitary Force Main Fund	\$150,000	\$150,000	\$150,000	\$250,000	\$200,000
4. Asset Management Fund	\$20,000	\$15,000	\$15,000	\$15,000	\$25,000
5. Equipment Replacement	\$50,000	\$35,000	\$35,000	\$35,000	\$75,000
TOTALS	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000	\$1,350,000

These self-funded capital accounts are established as sinking funds to provide for level budgeting and long-term funding. The Sewer Utility has also identified specific projects for this funding. For some projects, the respective account requires funding over a multi-year budget cycle in order to achieve adequate financing. For example, the replacement of the City's largest lift station, Ranch Road or LS E, is estimated at \$4.8~\$6.2M and that could require five years of annual allocations unless borrowed money was used*. The scale or proportion of funding established for each account category is intended to address the priorities of the Sewer Utility. The sinking funds are required for various types of projects. The funds are to address any regulatory requirements and projects identified as a part of a study for system improvements.

** In the 2021 Sewer Utility Budget, remaining bond proceeds from the East Trunk Relief Sewer Project in the amount of \$3,404,000 were reallocated to replace the Ranch Road Lift Station E.*

2022 SEWER CAPITAL PROJECT FUND

1. Gravity Sanitary Sewer Fund

The Gravity Sewer Fund is required for relay and replacement of over 165 miles of sewer main and over 3,800 manhole structures that will require renewal over anticipated life cycles. Methods of sewer installation include open-cut trenching and trenchless technologies such as guided boring, micro-tunneling, and cured-in-place pipe (CIPP) installation. Capital grouting of sewer mains is another method implored to reduce infiltration into the collection system. Methods for manhole rehabilitation are cementitious or epoxy lining or grouting; otherwise sectional or complete replacement is required. CMOM (Capacity Management, Operations and Maintenance annual report required by the Milwaukee Metropolitan Sewerage District) and CMAR (Compliance Maintenance Annual Report required by the Wisconsin Department of Natural Resources) regulatory requirements for system upgrades are planned, such as reducing inflow and infiltration during wet weather to reduce sanitary sewer overflows and bypass events in locations near the river. As part of the East Trunk System north of Mequon Road, hydraulic modeling is planned for a new relief sewer from the Lift Station E at Ranch Road that extends along Oriole Lane north to Glen Oaks Lane. In addition, a 20-year planning study for the West Trunk was completed in 2021, and improvements to the capacity for the Huntington Park subdivision were identified.

Prioritized projects include:

- Sanitary Flow Equalization in Cedarburg Road, STH 57 (\$175,000)
- Sanitary Flow Equalization in Mequon Road, STH 167 (\$250,000)
- Sanitary Exams in STH 167/Mequon Rd from Parkview Dr to Port Washington Rd (\$125,000)
- Sanitary Sewer Main Rehabilitation for PPI/I Priority Area “H” (\$250,000)
- Sanitary Sewer Main Rehabilitation for PPI/I Priority Area “F” (\$500,000)
- Sanitary Sewer Main Rehabilitation for PPI/I Priority Area “E” (\$750,000)
- Sanitary Sewer Main Rehabilitation for Lift Station Areas A, B and D (\$850,000)
- East Trunk Sewer north of Mequon Road Hydraulic Modeling Updates (\$200,000)
- Oriole Lane Relief Sewer Design (\$150,000)
- Oriole Lane Relief Sewer Extension from Ranch Rd to Glen Oaks Ln Construction (\$2,000,000)
- Sanitary Building Sewer Laterals Lac du Cours Cast Iron Public Lateral Cleaning (\$75,000)
- Design Granville Road Sewer Extension to Huntington Drive (\$200,000)
- Sanitary Extension from Granville Rd across Little Menomonee to Huntington Dr (\$1,250,000)

2022 SEWER CAPITAL PROJECT FUND

2. Sanitary Lift Station Fund

The Sanitary Lift Station Fund is required for various types of projects for the 23 stations including the expansion or replacement of existing lift stations and their appurtenances, as well as the construction of new stations. The funds are also utilized for projects identified as part of condition assessment studies, such as replacing pumps and transfer switches for safety. In addition, CMOM and CMAR regulatory requirements are addressed to minimize sanitary sewer overflows and optimize the system by upsizing pumps, increasing wet well capacity, and upgrading SCADA (system for controls and data acquisition) based on magnetic flow meters. In the event the replacement of a lift station requires funding that exceeds the sinking fund balance, such as for replacement of the Ranch Road Lift Station E, borrowed funds will be necessary to plan, design, and construct improvements or fully replace a station to limit additional sanitary sewer overflows. This infrastructure funding also allows for improvements to Fieldwood Drive LS G that is part of the East Trunk System north of Mequon Road.

Prioritized projects include:

- Site Selection and Appraisal for Easement and/or Land Acquisition for Replacing the Ranch Road Lift Station E* (\$300,000)
- Design Replacement for Ranch Road Lift Station E* (\$500,000)
- Construct Replacement of Ranch Road Lift Station E* (\$5,000,000)
- Design Study Report for Fieldwood Drive Lift Station G Capacity Improvements (\$100,000)
- Fieldwood Drive Lift Station G Improvements (\$750,000)
- Replace Pumps, Valves, Motors at Lift Stations F,O,R,S,K (\$50,000/each)
- Install Magnetic Flow Meters at Lift Stations B,C,D,O,R (\$15,000/each)
- Install Emergency Generators at Lift Stations K,H,Q,J,M (\$50,000/each)
- Install Lift Station Transfer Switches at Lift Stations K,H,Q,J,M (\$10,000/each)
- Replace Control Panels (\$10,000/each)
- Replace Cathodic Protection (\$10,000/each)
- Lift Station Pumping Energy Study (\$10,000)
- Replace and Upgrade Transducers (\$5,000/each)
- Decommissioning Studies – Lift Stations O, P, E** (\$25,000)

** In the 2021 Sewer Utility Budget, bond proceeds from the East Trunk Relief Sewer Project in the amount of \$3,404,000 were reallocated for the Ranch Road or Lift Station E replacement. The LS E Condition Assessment completed in 2020 estimated replacement costs ranging from \$4.8M to \$6.2M.*

***The decommissioning study will evaluate replacing (or augmenting) lift station operations with gravity sewer extensions, where feasible.*

2022 SEWER CAPITAL PROJECT FUND

3. Sanitary Force Main Fund

The Sanitary Force Main Fund is required for the design, replacement, new construction, retrofits, and large-scale cleaning of over 20 miles of sanitary force main. Prioritized projects outlined below were identified as part of systematic replacement of cast iron force mains, the 2018 force main maintenance study, and 2021 Condition Assessments for Fieldwood Drive LS G and Riverdale Park LS F that are part of the East Trunk System north of Mequon Road. CMOM and CMAR require collection system upgrades and maintenance to maintain and keep the sewer system in compliance with WDNR requirements.

Prioritized projects include:

- Fieldwood Drive Lift Station G Force Main Design Improvements (\$200,000)
- Fieldwood Drive Lift Station G Force Main Construction (\$1,100,000)
- Install Force Main Access Ports from Ranch Road Lift Station E for Maintenance (\$25,000)
- Perform Large Diameter Force Main Cleaning from Lift Stations A&E (\$250,000)
- Clean Small Dia. Force Mains under the Milw. River Lift Stations N,V,T (\$75,000)
- Replace Cast Iron Force Main in Huntington Park Lift Station R (\$180,000)
- Huntington Park Lift Station O Force Main Capacity Improvements (\$250,000)

4. Asset Management Fund

The Asset Management Fund is a sinking fund utilized to upgrade, install and expand the SCADA (System Control And Data Acquisition) equipment at the utility, and improve/add supply equipment and facilities. Proposed projects include replacing commercial remote access meters, valves, SCADA upgrades, maintaining a computer server for sewer exam records, GIS (geographic information system) upgrades for CMAR and CMOM reporting, evaluation of system life costs and projections, a 20-year planning study of all three major sewersheds, and others. Additional upgrades include installation of new sewer meters.

Prioritized projects include:

- SCADA Study for Sewer Utility (\$25,000)
- Commercial Sewer Meter Replacements (\$10,000)
- Upgrades to Asset Management Geographic Information Systems (\$25,000)
- 20-Year Sewer Planning Study with Hydraulic Analysis (\$150,000)
- Flow Meter Installations and Monitoring in Collection System (\$100,000)
- CCTV Camera Software and Hardware Upgrades (\$25,000)

2022 SEWER CAPITAL PROJECT FUND

5. Equipment Replacement Fund

The Equipment Replacement Fund is a sinking fund for the replacement of sewer equipment. It has been utilized previously for the purchase of the City's sewer vacuum truck and camera truck that is shared with Shorewood and Brown Deer. The camera incurs nearly constant operation that requires routine maintenance. Typically this piece of equipment, last acquired in 2015, is planned for replacement on a 10-year cycle. Other routine equipment replacement includes portable back-up generators for lift stations, portable pumps for bypass operations, and sewer main cleaning equipment such as hoses and jet nozzles. Previous years purchases have included acquisitions to replace pick-up trucks for the sewer maintenance crew, and that sinking fund will continue. Other anticipated purchases include replacement of the hose reel camera or acquisition of a new lateral evaluation televising system (LETS) camera for lateral inspections. This equipment is required to meet CMOM and CMAR required routine cleaning, inspection and condition assessments to maintain system compliance with WDNR requirements.

Prioritized projects include:

- Portable Back-up Generators Replacement (\$15,000)
- Portable Back-up Pumps Replacement (\$10,000)
- Lateral Inspection Camera Acquisition (\$35,000)
- Manhole Inspection Camera Acquisition (\$25,000)
- Maintenance Crew Pick-up Trucks Replacement (\$40,000)
- CCTV Camera Replacement (\$100,000)
- Camera Truck Replacement (\$200,000)

6. Private Property Infiltration and Inflow Reimbursable Fund

The PPI/I Fund is for sewer lateral work. This work can be done in stand-alone contracts or in combination with work on the public sewer main contracts. The sewer lateral work has historically been performed in the right-of-way and on private property, where per Code, the City is responsible for the lateral within the right-of-way. The budget available as of February 2021 was \$2,168,872, and an additional annual allocation of approximately \$220,000 is anticipated for the 2021-2030 funding cycle.

Prioritized projects include:

- Sanitary Lateral Rehab Contract (PPI/I Targeted Areas) LS F&H (\$888,000)
 - Cleaning and Exam Contract completed in 2020-2021
 - Sonde Contract, Clean-out Installation Contract, Grouting Contract
- Sanitary Lateral Exam Contract (PPI/I Targeted Areas) LS E (\$600,000)
 - Cleaning and Exam Contract in 2022
- Sanitary Lateral Rehab Contract (PPI/I Targeted Areas) LS E (\$700,000)
 - Sonde Contract anticipated for late 2022 or early 2023
 - Clean-out Installation Contract, Grouting Contract

The implementation of sewer lateral rehabilitation in Riverdale Park LS F and Riverland Drive LS H is being rebid due to rejection of \$1.5M bid over the \$888,000 funding agreement.

2022 SEWER CAPITAL PROJECT FUND

The 5-year project plan is shown in Table 3. The accumulation of capital funds allows for level funding and minimizes fluctuations in user rates. Some capital projects require large-scale funding and/or several years' worth of funding prior to utilization of the funds.

Table 3 – 5 Year Project Plan

	2022	2023	2024	2025	2026
Mequon Rd Flow Equalization @ STH 57			\$25,000	\$125,000	\$125,000
STH167 Exams CTH W to Milw. River	\$125,000				
Cedarburg Road Flow Equalization	\$175,000				
Sewer Main Improvements in Area 'H'	\$250,000				
Sewer Main Improvements in Area 'F'	\$500,000				
Sewer Main Improvements in Area 'E'		\$250,000	\$250,000	\$250,000	
ETS n/o STH 167 Update Hydraulic Model	\$150,000				
LS E Relief Sewer Design Study Report	\$150,000				
LS E Relief Sewer Construction		\$2,000,000			
Lac du Cours Lateral Cleaning in ROW	\$75,000				
Heritage Estates Siphon Design Study	\$15,000				
River Rd at Milw. River Design Study	\$15,000				
Huntington Park Sanitary Easement & Capacity Improvements (LS O4) Design		\$200,000			
Huntington Park Sanitary System Capacity Improvements (LS O4) Construction			\$1,250,000		
Sewer Main Rehabilitation (A,B,C,D)			\$250,000	\$250,000	\$350,000
Gravity Sanitary Sewer Fund (Category 0001) TOTALS	\$1,505,000	\$2,450,000	\$1,775,000	\$625,000	\$475,000
Ranch Rd LS E Easement / Site Acquisition	\$300,000				
Ranch Rd Lift Station E Design	\$500,000				
Ranch Rd Lift Station E Construction		\$5,000,000			
Fieldwood Drive Lift Station G Design Study Report for Improvements	\$100,000				
Fieldwood Drive Lift Station G Construct Capacity Improvements		\$750,000			
Lift Station Pump Replacements (U,O,R,T)			\$100,000	\$50,000	\$50,000
Condition Assessments (A,X)			\$40,000	\$50,000	
Replacement and Generator Installations			\$50,000	\$50,000	\$50,000
Huntington Park Subdivision Capacity Improvements (LS O2)	\$85,000	\$250,000			
Decommissioning Studies (LS O, P, E)	\$40,000				
Lift Station Fund (Category 0002) TOTALS	\$1,025,000	\$6,000,000	\$1,775,000	\$150,000	\$100,000
Lift Station G Forcemain Design	\$200,000				
Lift Station G FM Capacity Improvements		\$1,100,000			
Concord Drive LS R FM Replacement				\$50,000	\$200,000
Retrofit Force Mains w/ Access Ports			\$20,000	\$10,000	\$10,000
Sanitary Force Main Cleaning (A,E,T,V)			\$150,000	\$75,000	\$75,000
Forcemain Fund (Category 0003) TOTALS	\$200,000	\$1,100,000	\$170,000	\$135,000	\$285,000

2022 SEWER CAPITAL PROJECT FUND

	2022	2023	2024	2025	2026
Flow Metering - Gravity (East, Central, and West Trunk)	\$25,000	\$25,000	\$10,000		
Flow Metering-Lift Stations(A,D,U,O,R,T)	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
GIS Improvement - Sewer Lateral Tools	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
SCADA Study and Upgrades				\$100,000	
Asset Management Fund (Category 0004) TOTALS	\$41,000	\$41,000	\$26,000	\$116,000	\$16,000
Equipment Replacement (Truck, CCTV, Back Up Pumps)	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Equipment Replacement Fund (Category 0005) TOTALS	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
TOTALS (Categories 1 to 5)	\$2,821,000	\$9,641,000	\$2,211,000	\$1,026,000	\$926,000
Riverland Dr LS H and Riverdale Park LS F Area Investigation (ME10003ME04)					
Riverland Dr LS H and Riverdale Park LS F Area Implementation (ME10005ME01)	\$888,000				
Ranch Road LS E Area Investigation (M10005ME02)	\$600,000				
Ranch Road LS E Area Implementation (M10005ME03)		\$900,000			
Continue Priority Sewer Lateral Allocation			\$220,000	\$220,000	\$220,000
Private Property Inflow Infiltration Reduction (Category 0006) TOTALS	\$1,488,000	\$900,000	\$220,000	\$220,000	\$220,000
TOTALS (Categories 1 to 6)	\$4,309,000	\$10,541,000	\$2,431,000	\$1,246,000	\$1,146,000