



11333 N. Cedarburg Road
Mequon, WI 53092
Phone: 262-236-2934
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www.ci.mequon.wi.us

Public Works/Engineering
Taped and Televised

SEWER UTILITY DISTRICT COMMISSION

Tuesday, February 11, 2020

7:30 PM or Immediately Following the Mequon Municipal Water Utility Commission
Meeting
Christine Nuernberg Hall

Agenda

- 1) Call to Order, Roll Call
- 2) Approval of Meeting Minutes
Action requested: review and approve
 - a. January 14, 2020 Minutes
- 3) Resolutions
Action requested: review and recommend approval
 - a. **RESOLUTION 3700** A Resolution Authorizing Execution of a Funding Letter of Agreement with the Wisconsin Department of Transportation for Completion of Sewer Flow Equalization Work on Cedarburg Road in the Estimated Amount of \$175,000
 - b. **RESOLUTION 3701** A Resolution Approving the Award of a Contract to Examine Sanitary Sewer Mains and Building Sewer Laterals to Great Lakes TV & Seal, Inc, of Green Bay, Wisconsin in the Amount of \$126,983
 - c. **RESOLUTION 3702** A Resolution Approving the Award of a Contract for a Condition Assessment of Ranch Road Lift Station "E" to Applied Technologies, Inc. of Brookfield, Wisconsin in the Amount of \$49,250
- 4) Adjourn

Dated: February 11, 2020

/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, January 14, 2020

7:15 PM

Christine Nuernberg Hall

Minutes

- 1) Call to Order, Roll Call
Commissioner Wirth called the meeting to order at 7:19 PM.

Present:

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

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

- 2) Approval of Meeting Minutes

a. December 10, 2019 Minutes

RESULT: **Approved [Unanimous]**
MOVED BY: Commissioner Strzelczyk
SECONDED BY: Commissioner Bushee

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

Action requested: review and recommend approval

- a. **RESOLUTION 3686** A Resolution Allowing SPI Lighting, 10400 N. Enterprise Drive, to Discharge an Additional 1,500 Gallons of Industrial Wastewater Per Day into the City of Mequon's Sanitary Sewer System

Attachment: 01-14-2020 Mins_Sewer Utility District Commission (4886 : January 14, 2020 Minutes)

Deputy Director of Utilities Driscoll stated SPI Lighting currently has a discharge permit, and that there were revisions to the State of Wisconsin DNR permit and that MMSD has also revised their requirements allowing additional non-contact cooling water discharge into the sanitary sewer system. Staff evaluated the hydraulic capacity and constituents of the discharge and have determined it is acceptable.

Commissioner Mayr stated he did not see any reasons for the request, other than that they no longer want to do it as a surface discharge.

Commissioner Wirth inquired about what they were doing prior to today; is it better not to put it in the surface and better to put it in the sewer; and is this part of why they want to do this? Is this a monetary thing or why don't they want to put it in the grass?

Deputy Director of Utilities Driscoll stated it was previously permitted as discharge to surface waters. And that the requested change was attributed to a water quality initiative and the Total Maximum Daily Limits of the constituents discharged into surface waters. In addition, the process water is more suitable to be discharged into the sanitary collection system which is allowed by both the MMSD and modified DNR Permit.

Commissioner Wirth inquired this is better for the environment in the sewer district than to discharge it externally.

Director of Public Works/City Engineer Lundeen clarified rather than have them to treat it through there process before discharging to surface, they can discharge it to the sanitary sewer and the wastewater treatment plant will treat it.

Commissioner Bushee asked if this was subject for review on an annual basis; and would like it to be re-evaluated in a year to make sure it is still acceptable. Commissioner Bushee made a motion with an amendment that this is reviewed in a year to report back to make sure it is still performing as anticipated.

Director of Public Works/City Engineer Lundeen stated staff would have to review it, and not sure that the Commission could revoke it. As if there are other circumstances violating an ordinance regarding content and flow, that could be done separately. Staff would have to review with the City Attorney if there is an ability to revoke it in the future, if necessary.

Commissioner Wirth stated that if there were problems based on DNR or EPA they would revoke it anyway. So as long as the City looks at it and there is no problem, then that is fine. If the City looks at it and it is not, then someone else would step in to revoke it.

RESULT: Approved with Amendments [Unanimous]
MOVED BY: Commissioner Bushee
SECONDED BY: Commissioner Mayr

Attachment: 01-14-2020 Mins_Sewer Utility District Commission (4886 : January 14, 2020 Minutes)

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

b. **RESOLUTION 3687** A Resolution Adopting a Program Policy to Reduce Inflow and Infiltration from Private Property Sources

RESULT: **Approved [Unanimous]**
MOVED BY: Commissioner Mayr
SECONDED BY: Commissioner Strzelczyk

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

4) Motion to adjourn at 7:30 PM.

RESULT: **Approved by Voice Acclamation [Unanimous]**
MOVED BY: Commissioner Bushee
SECONDED BY: Commissioner Strzelczyk

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

Respectfully Submitted,

Casey Deuster

Attachment: 01-14-2020 Mins_Sewer Utility District Commission (4886 : January 14, 2020 Minutes)



11333 N. Cedarburg Road
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Office of Sewer Utility District Commission

TO: Sewer Utility District Commission
FROM: Kevin Driscoll, Deputy Director of Utilities
DATE: January 30, 2020
SUBJECT: RESOLUTION 3700 A Resolution Authorizing Execution of a Funding Letter of Agreement with the Wisconsin Department of Transportation for Completion of Sewer Flow Equalization Work on Cedarburg Road in the Estimated Amount of \$175,000

Background

In 2018, a resolution was approved to award a contract to Lakeside Engineering for the design of sanitary flow equalization on Cedarburg Road. This work is based on a 2011 City sanitary system evaluation study that included recommendations for sanitary system capital improvements. This sanitary sewer work is planned at two locations: the intersection of Sherwood Drive with Cedarburg Road, and at the intersection of Donges Bay Road with Cedarburg Road (State Highway 57).

The City of Mequon has parallel sanitary sewer systems along STH 57 that discharge into an MMSD municipal interceptor sewer at County Line Road. The two equalizing sewer pipes will optimize the storage and conveyance between the parallel sewer systems. This work includes the construction of an equalizer pipe between two manholes at Donges Bay Road and the relocation of the existing force main pipe from one manhole to the other. In addition, a second equalizer pipe will be constructed between two manholes at the intersection of Sherwood Drive. The proposed work will extend the functional life and improve the operations of the existing sanitary sewer systems.

This sewer project was included in the five-year plan of the 2020 Sanitary Sewer Utility Budget, with construction by the Wisconsin Department of Transportation anticipated in 2022.

Analysis

WisDOT typically requires a State and Municipal Agreement, however in this case the sanitary sewer work is categorized as non-participating work items within the larger roadway project. As a result, the WisDOT Project Manager, Allen Gilbertson, provided correspondence that only a letter is required for a funding agreement, Exhibit B.

Fiscal Impact

Cost of sewer work is estimated at \$175,000. The gravity sewer account has adequate funds for the sanitary sewer construction costs.

Recommendation

It is staff's recommendation that the Sewer Utility District Commission favorably endorse and

the Common Council approve execution of a funding letter agreement with the Wisconsin Department of Transportation for reimbursement of WisDOT's actual costs incurred with a budgeted amount of \$175,000 for the STH 57 reconstruction project (ID 2270-04-00) required to complete sanitary flow equalization in Cedarburg Road.

Attachments:

Exhibit A - Resolution 3527 - 2018 Sewer Capital Improvements (PDF)

Exhibit B - 2020-01-29_DRAFT Transmittal to WisDOT for 1953-I-18 (PDF)

COMMON COUNCIL
OF THE
CITY OF MEQUON

RESOLUTION 3700

A Resolution Authorizing Execution of a Funding Letter of Agreement with the Wisconsin Department of Transportation for Completion of Sewer Flow Equalization Work on Cedarburg Road in the Estimated Amount of \$175,000

A. A number of capital improvement projects, essential to the operation of the City's sanitary sewer system, were identified as part of the FY2020 Sanitary Sewer Budget adopted by the Common Council on October 22, 2019.

B. In March 2009, Resolution 2854 was approved to complete a sanitary sewer system study and that study completed in 2011 included flow equalization at two locations: the intersection of Sherwood Drive with Cedarburg Road, and at the intersection of Donges Bay Road with Cedarburg Road (State Highway 57).

C. In April 2018, Resolution 3527 was approved to award a contract to Lakeside Engineering to design sanitary flow equalization in Cedarburg Road.

D. City staff has received an estimate from Lakeside Engineers for this sanitary sewer work and has coordinated with the Wisconsin Department of Transportation to include the sanitary flow equalization work in Cedarburg Road as part the State Highway 57 project (2270-04-00) that extends from the City limits at County Line Road to Mequon Road.

E. The funding agreement between the City of Mequon and State of Wisconsin Department of Transportation authorizes reimbursement funding to complete the sanitary sewer flow equalization work for a budgeted amount of \$175,000 with construction work anticipated in 2022.

F. Capital Account 611799 730015 12042, Gravity Sewer Fund, has sufficient balance to fund this project.

G. The Sanitary Utility District Commission at its meeting on February 11, 2020 endorsed staff's recommendations.

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Mequon, that:

City staff is authorized to execute a funding agreement with the Wisconsin Department of Transportation to reimburse WisDOT for actual costs incurred with a budgeted amount of \$175,000 for the STH 57 reconstruction project (ID 2270-04-00) required to complete sanitary flow equalization in Cedarburg Road.

Approved by: John Wirth, Mayor

Date Approved: February 11, 2020

I certify that the foregoing Resolution was adopted by the Common Council of the City of Mequon, Wisconsin, at a meeting held on February 11, 2020.

Caroline Fochs, City Clerk

COMMON COUNCIL
OF THE
CITY OF MEQUON

RESOLUTION 3527

A Resolution Approving 2018 Sanitary Sewer Capital Improvements

WHEREAS, a number of capital improvement projects were identified as part of the FY2018 Sanitary Sewer budget adopted by the Common Council on November 14, 2017; and

WHEREAS, these projects are critical to the operation of the City's sanitary sewer operations; and

WHEREAS, City staff has received and evaluated bids for the projects; and

WHEREAS, City staff recommends that the capital projects totaling \$541,212.49 be awarded to the following contractors:

Vacuum Truck Replacement - NJPA-Northern Sewer Equipment for \$371,090.49

Lift Station V Generator and Transfer Switch - Frank Gillitzer Electric for \$39,458.00

Sanitary Equalization Design in Cedarburg Road - Lakeside Engineering for \$15,650.00

Manhole Chimney Seals - Musson Brothers Inc. for \$66,375.00

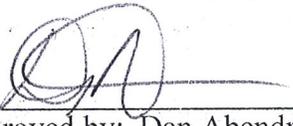
Lift Station B Pump replacement - Sable and LW Allen for \$48,639.00

WHEREAS, the FY 2018 budget included \$230,000.00 in the Sanitary Utility capital improvement budget for these projects and the difference will utilize respective existing balances; and

WHEREAS, an additional reserve balance of \$433,841 is in the Sanitary Utility equipment fund; and

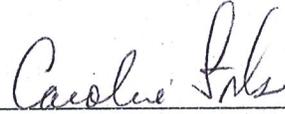
WHEREAS, the Sewer Utility District Commission at its meeting on April 10, 2018 endorsed staff's recommendations.

NOW THEREFORE BE IT RESOLVED BY THE COMMON COUNCIL of the City of Mequon, the Common Council at its meeting on April 10th, 2018 approved staff's recommendations and direct staff to complete the 2018 Sanitary Sewer Capital projects identified above.


Approved by: Dan Abendroth, Mayor

Date Approved: April 10, 2018

I certify that the foregoing Resolution was adopted by the Common Council of the City of Mequon, Wisconsin, at a meeting held on April 10, 2018.



Caroline Fochs, City Clerk

Attachment: Exhibit A - Resolution 3527 - 2018 Sewer Capital Improvements (RESOLUTION 3700 : A Resolution to Approve a Funding



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ENGINEERING/PUBLIC WORKS

January 29, 2020

Allen Gilbertson, P.E.
 Wisconsin Department of Transportation
 141 NW Barstow Street
 Waukesha, WI 53187-0798

SUBJECT: 2270-04-00, 2270-04-71
 STH 57 - Village of Brown Deer & City of Mequon Teutonia Ave. to Mequon Rd.

Dear [Mr. Gilbertson](#):

The City of Mequon Sewer Utility District Commission requests that the Wisconsin Department of Transportation incorporate sanitary sewer work on the behalf of City of Mequon into the contract documents for the subject construction project. Specifically, the sanitary sewer work requested for inclusion into the plans, specifications and estimates for the subject Wisconsin Department of Transportation contract document is [Sanitary Flow Equalization at the intersections of Sherwood Drive and Donges Bay Road, as referenced in the Sanitary Sewer Contract No. 1953-I-18 between Lakeside Engineering and the City of Mequon.](#)

The City of Mequon has parallel sanitary sewer systems along STH 57 that discharge into an MMSD municipal interceptor sewer at County Line Road. The two equalizing sewer pipes will optimize the storage and conveyance between the parallel sewer systems. This work includes the construction of an equalizer pipe between two manholes at Donges Bay Road and the relocation of the existing force main pipe from one manhole to the other. In addition, a second equalizer pipe will be constructed between two manholes at the intersection of Sherwood Drive. The proposed work will extend the functional life and improve the operations of the existing sanitary sewer systems. In a memorandum dated November 27, 2019, Lakeside Engineers provided an estimated cost for the proposed sanitary flow equalization work. That estimated amount for the sanitary sewer flow equalization was revised to \$175,000.

The City of Mequon Sewer Utility District Commission approved the 2020 Sanitary Sewer Budget that includes planned funding for this project in 2022. In addition, the City SUDC budgeted over \$175,000 and agrees to pay for costs incurred as a lump sum payment, where the actual cost will be billed to the City of Mequon once construction commences and as costs are incurred.

Sincerely,

Kevin Driscoll, P.E.
 Deputy Director of Utilities

Cc: Kristen Lundeen, P.E. – City Engineer / Director of Public Works



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Office of Sewer Utility District Commission

TO: Sewer Utility District Commission
FROM: Kevin Driscoll, Deputy Director of Utilities
DATE: January 30, 2020
SUBJECT: RESOLUTION 3701 A Resolution Approving the Award of a Contract to Examine Sanitary Sewer Mains and Building Sewer Laterals to Great Lakes TV & Seal, Inc, of Green Bay, Wisconsin in the Amount of \$126,983

Background

The Sewer Utility routinely evaluates the condition of infrastructure for regulatory, planning and programming purposes. The 2020 Sanitary Sewer Utility Budget includes funding to examine sanitary sewer mains and laterals. This work is in two of the PPI/I priority areas: the Riverdale Park area bounded by Highland Road to the north, Port Washington Road to the east, Liebau Road to the south and the Milwaukee River to the west. The second area is the Riverland Drive area bounded by the Milwaukee River to the north, Schwemers Lane to the east, Grace Avenue to the south and Riverland Drive to the west. This work is part of an effort to address the system conditions that lead to a sanitary sewer overflow at the Ranch Road Lift Station E in October 2019.

In January, outreach was sent to over 300 property owners in the priority areas, notifying them of this planned work. As of the date of this memo, over 50 have volunteered to participate in Clear Water Compliance Inspections. Additional volunteers are anticipated to sign up, and the contract is structured to include participation of all 300 property owners. In addition, a public information meeting has been scheduled for Wednesday, March 4, 2020 at City Hall to discuss the PPI/I program exams, clear water compliance inspections and determination of future rehabilitation techniques.

Analysis

For the PPI/I exams, multiple qualified firms provided quotes to complete closed circuit televised (CCTV) examinations in the sewer mains and building sewer laterals. The quotes are summarized in the table below.

Firm	Cost
Great Lakes TV Seal Inc.	\$126,983
Visu-Sewer	\$194,963
Pipetek	\$200,068
National Power Rodding	\$215,061

This work is intended to identify defects only, and is anticipated to begin this spring. The exams will be reviewed by a consultant, and rehabilitation techniques will be evaluated by that

consultant in a separate future contract, anticipated for award this spring.

Fiscal Impact

Reimbursement for the examination work on the private building sewer laterals is anticipated from the Milwaukee Metropolitan Sewerage District (MMSD). However, the cost for the exams on the public mains is the responsibility of the City. These costs are summarized below:

Cost of examining mains (City Expense):	\$30,604.25
Cost of examining laterals (MMSD Reimbursement):	\$96,378.00

The 2020 sewer operational budget has adequate funding for the sanitary sewer system exams. In addition, reimbursement funding by MMSD achieved the first of two milestones in January 2020, where this workplan was approved. The second milestone is the funding agreement, and it is currently under review by MMSD with anticipated approval in February.

Recommendation

It is staff's recommendation that the Sewer Utility District Commission favorably endorse and the Common Council approve a contract to complete CCTV Examinations of sanitary sewer mains and building sewer laterals in the priority PPI/I areas to Great Lakes TV Seal, Inc. of Green Bay, Wisconsin in the amount of \$126,982.25.

Attachments:

Exhibit A - Summary of Quotes (3566-X-20) (PDF)
 Exhibit B - Itemized Detail of Quotes (3566-X-20) (PDF)

COMMON COUNCIL
OF THE
CITY OF MEQUON

RESOLUTION 3701

A Resolution Approving the Award of a Contract to Examine Sanitary Sewer Mains and Building Sewer Laterals to Great Lakes TV & Seal, Inc, of Green Bay, Wisconsin in the Amount of \$126,983

A. The City of Mequon has the ability to use Milwaukee Metropolitan Sewerage District (MMSD) Private Property Inflow and Infiltration reimbursement to complete eligible work on private property.

B. On October 22, 2019, the City of Mequon approved a resolution to adopt a Study Report that prioritized areas to implement additional Private Property Inflow and Infiltration Projects as part of the 2011-2020 MMSD funding cycle.

C. On January 14, 2020, the City of Mequon approved a resolution to adopt a Policy for a Private Property Inflow and Infiltration Reduction Program, where this lateral rehabilitation program shall be voluntary and includes a clear water compliance inspection, examination of the building sewer lateral, and addresses defects in both public and private portions of the sanitary lateral.

D. City staff has received and reviewed quotes from multiple contractors for examination services of the sanitary sewer and building sewer laterals.

E. City staff recommends that the contract to examine sanitary sewer mains and building sewer laterals be awarded to Great Lakes TV Seal Inc. of Green Bay, Wisconsin in the amount of \$126,983, where the cost of examining mains was quoted at \$30,604.25, and is the City's expense; and the cost of examining laterals was quoted at \$96,378.00, and is eligible for reimbursement by the Milwaukee Metropolitan Sewerage District.

F. The Inflow and Infiltration Reduction Account 610799-730015-12023 was established for this eligible private property reimbursement from the Milwaukee Metropolitan Sewerage District.

G. The Capital Account Gravity Sewer Fund 610799-730015-12023 has sufficient balance to fund this project.

H. The Sewer Utility District Commission at its meeting on February 11, 2020 favorably endorsed staff's recommendations.

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Mequon that:

City staff is authorized to execute a contract with Great Lakes TV Seal Inc. of Green Bay, Wisconsin in the amount of \$126,983, where \$96,378.00 is eligible for reimbursement by the Milwaukee Metropolitan Sewerage District.

Approved by: John Wirth, Mayor

Date Approved: February 11, 2020

I certify that the foregoing Resolution was adopted by the Common Council of the City of Mequon, Wisconsin, at a meeting held on February 11, 2020.

Caroline Fochs, City Clerk



11333 N. Cedarburg Road, GOW
Mequon, Wisconsin 53092

**CITY OF MEQUON
WISCONSIN**

**QUOTES RECEIVED FOR: Contract No. 3566-X-20 Examinations for
Sewer Mains and Laterals in LS H and LS F Areas**

DEADLINE FOR QUOTES: 1/28/2020 3:00 PM
DATE TIME

CONTRACTOR	QUOTED PRICE	Prequal.	Addendum No. 1	Addendum No. 2
Great Lakes	\$126,982.25	x	x	x
Visu-Sewer	\$194,963.10	x	x	x
Pipetek	\$200,068.00	x	x	x
NPR	\$215,061.10	x	x	x

Attachment: Exhibit A - Summary of Quotes (3566-X-20) (RESOLUTION 3701 : A Resolution to Award a

ITEM NUMBER	RIVERDALE LIFT STATION "F" ITEMS	UNIT	EST. QUANTITY
1	CCTV sanitary sewer main, 8-inch dia.	LF	24,111
2	CCTV sanitary sewer main, 10-inch dia.	LF	3,308
3	CCTV sanitary sewer main, 12-inch dia.	LF	1,521
4	CCTV sanitary sewer main, 15-inch dia.	LF	733
5	CCTV 219 sanitary sewer laterals, 6-inch dia. from main to clean-out at ROW (approx. 25-ft each)	LF	5,475
Total LS F Items:			

ITEM NUMBER	RIVERLAND LIFT STATION "H" ITEMS	UNIT	EST. QUANTITY
6	CCTV sanitary sewer main, 8-inch dia.	LF	6,332
7	CCTV 62 sanitary sewer laterals, 6-inch dia. from main to clean-out at ROW (approx. 25-ft each)	LF	1,550
Total LS H Items:			

ITEM NUMBER	BUILDING SEWER LATERAL ITEMS	UNIT	EST. QUANTITY
8	CCTV 219 sanitary sewer laterals, 4-inch dia. beyond clean-out (approx. 100-ft each) LS F	LF	21,900
9	CCTV 62 sanitary sewer laterals, 4-inch dia. beyond clean-out (approx. 100-ft each) LS H	LF	6,200
Total BUILDING SEWER LATERAL Items:			

ITEM NUMBER	ALLOWANCE ITEMS FOR CLEANING LATERALS	UNIT	EST. QUANTITY
10	Allowance to Clean sanitary building sewer lateral in Lift Station F area	EA	50
11	Allowance to Clean sanitary building sewer lateral in Lift Station H area	EA	20
Total ALLOWANCE FOR CLEANING BUILDING SEWER LATERAL:			

ITEM NUMBER	ALLOWANCE FOR ADDITION LAUNCH SET-UP	UNIT	EST. QUANTITY
12	Allowance for additional Launch to examine building sewer lateral	EA	20
Total ALLOWANCE FOR ADDITIONAL LAUNCH SET-UP:			

Great Lakes	
UNIT PRICE	TOTAL
\$ 0.85	\$ 20,494.35
\$ 0.85	\$ 2,811.80
\$ 0.85	\$ 1,292.85
\$ 0.85	\$ 623.05
\$ 5.92	\$ 32,412.00
SUBTOTAL	\$ 57,634.05

Great Lakes	
UNIT PRICE	TOTAL
\$ 0.85	\$ 5,382.20
\$ 5.92	\$ 9,176.00
SUBTOTAL	\$ 14,558.20

Great Lakes	
UNIT PRICE	TOTAL
\$ 0.90	\$ 19,710.00
\$ 0.90	\$ 5,580.00
SUBTOTAL	\$ 25,290.00

Great Lakes	
UNIT PRICE	TOTAL
\$ 350.00	\$ 17,500.00
\$ 350.00	\$ 7,000.00
SUBTOTAL	\$ 24,500.00

Great Lakes	
UNIT PRICE	TOTAL
\$ 250.00	\$ 5,000.00
SUBTOTAL	\$ 5,000.00
TOTAL	\$ 126,982.25

Visu-Sewer	
UNIT PRICE	TOTAL
\$ 3.62	\$ 87,281.82
\$ 3.62	\$ 11,974.96
\$ 3.62	\$ 5,506.02
\$ 3.62	\$ 2,653.46
\$ 1.00	\$ 5,475.00
SUBTOTAL	\$ 112,891.26

Visu-Sewer	
UNIT PRICE	TOTAL
\$ 3.62	\$ 22,921.84
\$ 1.00	\$ 1,550.00
SUBTOTAL	\$ 24,471.84

Visu-Sewer	
UNIT PRICE	TOTAL
\$ 1.00	\$ 21,900.00
\$ 1.00	\$ 6,200.00
SUBTOTAL	\$ 28,100.00

Visu-Sewer	
UNIT PRICE	TOTAL
\$ 350.00	\$ 17,500.00
\$ 350.00	\$ 7,000.00
SUBTOTAL	\$ 24,500.00

Visu-Sewer	
UNIT PRICE	TOTAL
\$ 250.00	\$ 5,000.00
SUBTOTAL	\$ 5,000.00
TOTAL	\$ 194,963.10

Pipetek	
UNIT PRICE	TOTAL
\$ 3.00	\$ 72,333.00
\$ 3.00	\$ 9,924.00
\$ 3.00	\$ 4,563.00
\$ 4.00	\$ 2,932.00
\$ 8.00	\$ 43,800.00
SUBTOTAL	\$ 133,552.00

Pipetek	
UNIT PRICE	TOTAL
\$ 3.00	\$ 18,996.00
\$ 8.00	\$ 12,400.00
SUBTOTAL	\$ 31,396.00

Pipetek	
UNIT PRICE	TOTAL
\$ 0.20	\$ 4,380.00
\$ 0.20	\$ 1,240.00
SUBTOTAL	\$ 5,620.00

Pipetek	
UNIT PRICE	TOTAL
\$ 350.00	\$ 17,500.00
\$ 350.00	\$ 7,000.00
SUBTOTAL	\$ 24,500.00

Pipetek	
UNIT PRICE	TOTAL
\$ 250.00	\$ 5,000.00
SUBTOTAL	\$ 5,000.00
TOTAL	\$ 200,068.00

NPR	
UNIT PRICE	TOTAL
\$ 1.95	\$ 47,016.45
\$ 2.25	\$ 7,443.00
\$ 2.25	\$ 3,422.25
\$ 4.00	\$ 2,932.00
\$ 8.00	\$ 43,800.00
SUBTOTAL	\$ 104,613.70

NPR	
UNIT PRICE	TOTAL
\$ 1.95	\$ 12,347.40
\$ 8.00	\$ 12,400.00
SUBTOTAL	\$ 24,747.40

NPR	
UNIT PRICE	TOTAL
\$ 2.00	\$ 43,800.00
\$ 2.00	\$ 12,400.00
SUBTOTAL	\$ 56,200.00

NPR	
UNIT PRICE	TOTAL
\$ 350.00	\$ 17,500.00
\$ 350.00	\$ 7,000.00
SUBTOTAL	\$ 24,500.00

NPR	
UNIT PRICE	TOTAL
\$ 250.00	\$ 5,000.00
SUBTOTAL	\$ 5,000.00
TOTAL	\$ 215,061.10

Attachment: Exhibit B - Itemized Detail of Quotes (3566-X-20) (RESOLUTION 3701 : A Resolution to Award a Contract to Examine Sanitary



11333 N. Cedarburg Road
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www.ci.mequon.wi.us

Office of Sewer Utility District Commission

TO: Sewer Utility District Commission
FROM: Kevin Driscoll, Deputy Director of Utilities
DATE: January 30, 2020
SUBJECT: RESOLUTION 3702 A Resolution Approving the Award of a Contract for a Condition Assessment of Ranch Road Lift Station “E” to Applied Technologies, Inc. of Brookfield, Wisconsin in the Amount of \$49,250

Background

The Sewer Utility routinely evaluates the condition of infrastructure for planning and programming purposes. The 2020 Sanitary Sewer Utility Budget includes condition assessments similar to previous years, and the Ranch Road Lift Station E is scheduled for an assessment this year. This lift station is the City’s largest with a service area of over 6 square miles and flows ranging up to 3.5 million gallons per day during wet weather events. The service area can generally be described as being bounded by Highland Road and Ville du Parc to the north, Riverland Road to the west, Lake Michigan to the east and Mequon Road to the south.

The Ranch Road Lift Station E Condition Assessment includes inspection and site evaluation of mechanicals, controls, pump performance, hydraulic analysis, and completion of a life cycle analysis to plan for future upgrades and replacement. In addition, troubleshooting the cause of a sanitary sewer overflow that occurred in October 2019 is also included in the scope of work.

Analysis

Five consulting firms provided proposals to complete the condition assessment of Lift Station E. A requirement of the proposals was to provide three examples of recently completed projects of similar scale. Two firms were considered non-responsive because sample work on similar projects was not included, as required. The proposals from the responsive firms are summarized below.

Firm	Cost
Applied Technologies Inc.	\$49,250
Clark Dietz	\$58,229
S.E.H.	\$59,229

Applied Technologies provided six comparable scale lift station projects and a wide variety of experience over 40 projects in southern Wisconsin and northern Illinois. Staff checked with four references for similar scale projects, and other municipalities were very pleased and continue to work with Applied Technologies, Inc. as their lift station specialists.

A copy of the Request-for-Proposals (RFP) previously distributed by the City is attached; copies

of all proposals received by the City are on file and available for inspection in the City's Engineering Division.

Fiscal Impact

Funding for Sanitary Sewer Lift Condition Assessment work in the amount of \$49,250 is available as a part of the sewer budget. The condition assessment account, 611799-730015-12037, has adequate funds for this project.

Recommendation

It is staff's recommendation that the Sewer Utility District Commission favorably endorse and the Common Council approve a contract in the amount of \$49,250 to Applied Technologies, Inc. of Brookfield, Wisconsin to complete a condition assessment and life cycle analysis for the Ranch Road Lift Station "E".

Attachments:

Exhibit A - Agreement with Scope of Services for LS E (PDF)

COMMON COUNCIL
OF THE
CITY OF MEQUON

RESOLUTION 3702

A Resolution Approving the Award of a Contract for a Condition Assessment of Ranch Road Lift Station "E" to Applied Technologies, Inc. of Brookfield, Wisconsin in the Amount of \$49,250

A. A number of sewer operations including condition assessments were included as part of the FY2020 Sanitary Sewer budget adopted by the Common Council on October 22, 2019.

B. Condition Assessments are necessary and critical for lift station operations, maintenance and improvement projects, including the Ranch Road Lift Station "E" condition assessment, which is the City's largest lift station.

C. City staff has received and reviewed proposals from multiple consultants for condition assessments.

D. City staff recommends that the condition assessment of the Ranch Road Lift Station "E" be awarded to Applied Technologies, Inc. of Brookfield, Wisconsin in the amount of \$49,250.

E. The Capital Account Lift Station Fund 610799-730015-12041 has an adequate balance to fund this project.

F. The Sewer Utility District Commission at its meeting on February 11, 2020 endorsed staff's recommendations.

NOW THEREFORE BE IT RESOLVED BY THE COMMON COUNCIL of the City of Mequon, that:

City staff is authorized to execute a contract with to Applied Technologies, Inc. of Brookfield, Wisconsin in the Amount of \$49,250 to perform a Condition Assessment of the Ranch Roach Lift Station "E" subject to review and any revisions as deemed necessary by the City Attorney.

Approved by: John Wirth, Mayor

Date Approved: February 11, 2020

I certify that the foregoing Resolution was adopted by the Common Council of the City of Mequon, Wisconsin, at a meeting held on February 11, 2020.

Caroline Fochs, City Clerk



AGREEMENT FOR PROFESSIONAL SERVICES



Date: February 3, 2020

Project

Number: BD3845

Project Name: Lift Station "E" Condition Assessment

Client: City of Mequon

Address: 11333 N. Cedarburg Road

Mequon, WI 53092

The Client hereby requests and authorizes Applied Technologies, Inc. (ATI) to perform the following services:

Project: Condition Assessment and Life Cycle Planning Study for Lift Station "E" located at 2020 Ranch Road

Scope of Services: See Attachment A for scope of services.

Compensation: Work will be performed on a time and material basis for a fee not-to-exceed \$49,250 as detailed below:

- Items 1-7 in RFP = \$40,386
- Item 8 (if authorized) = \$8,864

Other Items:

Services covered by this Agreement shall be performed in accordance with the General Provisions stated on Page 2 of 2 and any referenced attachments or schedules.

Accepted for Client

Accepted for Applied Technologies, Inc.

By: _____

By: William A. Ericson

Title: _____

Title: Vice President

Date: _____

Date: February 3, 2020

13400 Bishop's Lane • Suite 270 • Brookfield, Wisconsin 53005 • Phone (262) 784-7690

Attachment: Exhibit A - Agreement with Scope of Services for LS E (RESOLUTION 3702 : A Resolution to Award a Contract to Complete a



GENERAL PROVISIONS

1. Scope of Services and Time Limit

The Proposal or Agreement for Professional Services, hereinafter both called the Agreement, is valid for a period of 60 days. Signing of the Agreement by the Client shall be considered as authorization for Applied Technologies, Inc. (ATI) to proceed with the Scope of Services. If acceptance is not received within 60 days, ATI reserves the right to revise the Scope of Services, Compensation, schedule, and personnel commitments.

2. Compensation

Compensation for the Scope of Services shall be as indicated in the Agreement, including any rate schedule or other attachments. All time spent on the Project by professional, technical, and clerical personnel will be invoiced. Unless otherwise stated, any compensation or fee estimate is considered a budget estimate only, and is not a lump-sum fee. If it becomes apparent to ATI that the total amount of compensation will exceed the budget estimate, ATI will notify the Client. Promptly thereafter, the Client and ATI shall review the matter of compensation and either the budget estimate or the remaining Scope of Services shall be revised. Rate schedules are adjusted on January 1st of each calendar year.

3. Additional Services

Additional compensation shall be negotiated between the Client and ATI for Additional Services beyond the Scope of Services. Unless otherwise noted, these Additional Services will include, but not be limited to: investigating the condition of existing facilities; verifying the accuracy of drawings or information furnished by the Client; surveying and preparation of easements and right-of-way descriptions, redesign after approval of preliminary phase documents; preparation of alternative designs; bid protests; redesign and rebidding; Client-requested change orders involving redesign; restaking of construction stakes; and delays beyond the control of ATI.

4. Payments to ATI

Progress invoices will be issued monthly by ATI for all services performed under the Agreement. Invoices are due and payable on receipt. Interest at the rate of 1% per month will be charged on all past due amounts.

5. Professional Standards

ATI shall be responsible, to the level of competency presently maintained by other practicing professionals in the same type of work and time in the Client's community, for the professional and technical soundness, accuracy, and adequacy of all design, drawings, specifications, and other work and materials furnished under this Agreement. Professional services are not subject to, and ATI can not provide, any warranty or guarantee, express or implied, including warranties or guarantees contained in any uniform commercial code. Any such warranties or guarantees contained in any purchase orders, requisitions or notices to proceed issued by the Client are specifically objected to.

6. Opinions of Cost

Since ATI has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor(s)' methods of determining prices, or over competitive bidding or market conditions, the opinions of probable Total Project Costs and Construction Cost are made on the basis of ATI's experience and qualifications and represent ATI's professional judgment. ATI does not guarantee that proposals, bids or actual Total Project Costs or Construction Costs will not vary from the opinions of probable cost prepared by ATI. If prior to bidding, the Client wishes greater assurance as to Total Project or Construction Costs, the Client shall employ an independent cost estimator. ATI's services to modify the Contract Documents to bring the Construction Cost within any limitation established by Client will be considered Additional Services.

7. Construction Observation

During construction observation ATI shall not supervise, direct, or have control over the Contractor's work or responsibility for the means, methods, techniques, sequences, or procedures of construction, nor for construction safety precautions and programs. ATI shall not be responsible for any failure of the Contractor to comply with applicable laws, rules, regulations, ordinances, or codes. ATI can neither guarantee the performance of the construction contract by the Contractor nor assume responsibility for the Contractor's failure to furnish and perform work in accordance with the Contract Documents.

8. Insurance

ATI shall procure and maintain insurance for protection from claims under workers' compensation acts, claims for damages because of bodily injury including personal injury, sickness or disease or death of any and all employees or of any person other than such employees, and from claims or damages because of injury to or destruction of property including loss of use.

9. Indemnification

ATI agrees to indemnify Client from any claims, damages, losses, and costs, including, but not limited to, attorney's fees and litigation costs, arising out of claims by third parties for property damage and bodily injury, including death, caused solely by the negligence or willful misconduct of ATI in connection with the project. Client agrees to indemnify ATI from any claims, damages, losses, and costs, including, but not limited to, attorney's fees and litigation costs, arising out of claims by third parties for property damage and bodily injury, including death, caused solely by the negligence or willful misconduct of Client, Client's employees, or agents in connection with the project.

If the negligence or willful misconduct of both ATI and Client (or a person identified above for whom each is liable) is a cause of such damage or injury, the loss, cost, or expense shall be shared between ATI and Client in proportion to their relative degrees of negligence or willful misconduct and the right of indemnity shall apply for such proportion.

10. Limitation of Liability

The Client agrees to limit any and all liability or claim for damages, cost of defense, or expenses levied against ATI to a sum not to exceed \$50,000 or the amount of total compensation under this Agreement, whichever is less, on account of any design defect, error, omission, or professional negligence.

11. Reuse of Documents

Any reuse of documents including reports, drawings, specifications, Contract Documents and other deliverables furnished by ATI, whether in hard copy or electronic form, under this Agreement without specific written verification or adoption by ATI will be at the Client's sole risk and without liability or legal exposure to ATI. Any such reuse, verification or adoption will entitle ATI to further compensation at rates agreed upon by the Client and ATI.

12. Termination

Either the Client or ATI may terminate the Agreement by giving 30 days written notice to the other party. In such an event, the Client shall pay ATI in full for all work previously authorized and performed prior to the effective date of termination. All relationships and obligations created by this Agreement shall be terminated upon completion of all applicable requirements of this Agreement.

13. Dispute Resolution

In the event of a dispute arising under this Agreement, the Client and ATI shall attempt to settle the dispute by discussion between the Client's and ATI's management. If any dispute cannot be resolved in this manner, in a reasonable length of time, the Client and ATI agree to attempt non-binding mediation or other alternative dispute resolution prior to filing any legal proceedings. In the event actions are brought to enforce this Agreement, the prevailing party shall be entitled to collect its litigation costs from the other party.

14. Controlling Law and Severability

This Agreement is to be governed by the law of the principal place of business of ATI. If any provisions, paragraph, word, section, or subsection of this Agreement is invalidated by any court of competent jurisdiction, the remaining provisions, paragraphs, words, sections, and subsections shall not be affected and shall continue in full force and effect.

15. Entire Agreement

This Agreement represents the entire agreement between the Client and ATI. No other terms, conditions, promises, understandings, statements, or representations, express or implied, covered in the subject matter of this Agreement exist or have been made. This Agreement cancels and supersedes all previous agreements, proposals and understandings, if any, written or oral, between the parties relating to the subject matter of this Agreement.

City of Mequon

Lift Station “E” Condition Assessment

SCOPE OF SERVICES

FEBRUARY 3, 2020

PROJECT UNDERSTANDING

Lift Station “E” (LS E) was constructed in 1965 and updated several times thereafter. LSE plays an integral role in the conveyance of wastewater throughout the City, serving as its largest station and receiving flows from Stations F, G, H and T. In response to Sanitary Sewer Overflows (SSOs) in 2014, 2015, 2018 and 2019, the City of Mequon is seeking proposals for a Condition Assessment of LS E. The Station discharges to two force mains, features an undersized wet well and pump room (when compared to similar stations), and contains four pumps.

The Condition Assessment will accomplish several tasks:

- Address present and future capacities.
- Determine wet weather operational issues.
- Identify deficiencies.
- Recommend improvements and upgrades.
- Outline short- and long-term maintenance requirements moving forward.

SCOPE OF WORK

I. Data Gathering and Background Analysis

- A. Attend a kickoff meeting with City staff.
- B. Review existing data, including record drawings, pump maintenance history, SSOs history, lift station runtime records and meter data.
- C. Review Standard Operating Procedures.
- D. Review 2011 Sanitary Sewer System Evaluation.
- E. Review 2018 Forcemain Report.

II. Perform Site Assessment of Lift Station E

- A. Inspect Electrical.
- B. Inspect Controls.
- C. Inspect Mechanicals.
- D. Inspect Wet Well.
- E. Inspect Structural.
- F. Inspect Odor Control System.
- G. Inspect SCADA.

III. Perform Drawdown Testing

- A. Provide results in a letter report with attachments.

IV. Attend meetings with City to review each task.

- A. Assume seven (7) meetings during business hours for one hour each, three (3) in person and four (4) phone calls.

V. Evaluate Options to Improve Operations and Maintenance of Lift Station E

- A. Address Standard Operating Procedures.
- B. Based on Site Assessment analyze options for on-site improvements and retrofits.
- C. Present options to optimize and/or improve LS E Electrical, Controls, Mechanicals, Wet Well, Structural, Odor Control System, SCADA.
- D. Evaluate Electrical System / Power Supply.
 - 1. Address Critical Back-up Power Supply and Redundant Electrical Feeds.
- E. Evaluate at least three factors on site at the station to mitigate frequency of overflows at LS E. Consider operational improvements, and structural and mechanical upgrades, or others as recommended by consultant.

VI. Evaluate LS E Demand and Address Capacity Issues

- A. Evaluate hydraulics of contributing areas into LS E that include:
 - 1. Lift Station F area (Basin ME4001) and meter data ME8098
 - 2. Lift Station H area (Basin ME4002) and meter data ME9009
 - 3. Glen Oaks (Basin ME4003) and meter data ME0005
 - 4. Basin ME4004 and meter data ME9054

5. Pump Run time records and meter data to be provided by City and evaluated from 2016 to present.
 6. City to provide selected consultant GIS access for mapped basin areas.
- B. Based on overflow history, address specific conditions that lead to cause of SSOs.
1. Consider Discharge and Forcemain capacity with respect to inflow demand.
 2. Evaluate NWS and NOAA river gage/stage information to draw any correlations between pumping rates and river stage that may contribute to SSOs.
 3. Identify At Least Three (3) Scenarios to mitigate of SSOs at LS E.
 - a) Address a fourth scenario that includes feasibility analysis of new lift station in the vicinity of the Port Washington Road Fire Station (to withdraw flow from Basin ME4003 and provide capacity for future growth).
 - b) Prepare a Cost Benefit Matrix of Options to Improve LS E Performance.
 - c) Consider I&I Reduction Programmed for Implementation including Lift Station F area (Basin ME4001) and Lift Station H area (Basin ME4002).
- C. Provide hydraulic analysis report of sewers in LS E contributing area.

VII. Provide Recommendations in Report Format

- A. Provide Near Term recommendations that address deficiencies identified in the condition assessment.
- B. Include drawdown testing results in the report.
- C. Provide recommendations that prioritize improvements and/or retrofits to LS E.
 1. Address each of the following: LS E Operations and Maintenance, Electrical, Controls, Mechanicals, Wet Well, Structural, Odor Control System, SCADA.
- D. Include recommendations for Long Range Capital Improvements based Item II.
- E. Include recommendations for Operational Improvements based on Item V.
- F. Include recommendations for Collection System Improvements based on Item VI.
- G. Summarize Evaluation of On-Site Improvements and Retrofits.

VIII. IF AUTHORIZED, Prepare a Life Cycle Cost Analysis for Lift Station E

- A. Prepare LCCA Outline of Costs including but not limited to:
 - 1. Capital, Energy, Operation, Maintenance/Repair, Downtime, Environmental (SSOs)
 - 2. Address Alternatives for Pumps, Piping and Storage.
 - 3. Analysis to Consider 5, 10, 15, 25, 35 and 50 year milestones.
- B. Provide Scenarios for Upgrade Options
 - 1. Consider Long Term Growth including planning for East Growth Area.
 - 2. Estimate cost for full lift station replacement.
 - 3. Estimate phased replacements of pumps, structures and other features in item #2.
- C. Provide Draft Report on Life Cycle Cost Analysis.
- D. Allow for City Review and incorporating comments into Final LCCA Report for LS E.