



AGENDA FOR PUBLIC WORKS & UTILITIES COMMISSION

A Public Works & Utilities Commission meeting will be held on **Wednesday, July 15, 2026 at 5:30 PM**
in the **Council Chambers at City Hall, 819 Superior Avenue, Tomah, WI.**

Join Zoom Meeting

<https://us06web.zoom.us/j/2708608080?pwd=ZTZ0cmllVEFEb1dzVDNwdi91UHFYQT09>

Meeting ID: 270 860 8080

Passcode: 206751

One tap mobile

+13092053325,,2708608080#,,,*,206751# US

Call to Order - Roll Call

Approve Minutes

[June Minutes](#)

Discussion Items

1. Airport Update
2. [Approval: Steve Austin - Airport Update](#)
3. [Discussion & Potential Action: Street Privilege Reimbursement](#)
4. [Discussion & Potential Action: STH 16 Pavement Project](#)
5. [Approval: Simplified Rate Increase for 2027](#)
6. [Discussion & Potential Action: Galvanized Requiring Replacement \(GRR\)](#)
7. [Discussion & Potential Action - Pay Request #4](#)
8. Project Updates
9. Payment of Monthly Water & Sewer Bills
10. Departmental Reports
11. Director's Report
12. Next Meeting - August 26, 2026

Adjourn

NOTICE: It is possible that a quorum of members of other governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information. No action will be taken by any governmental body at the above-stated meeting other than the governmental body specifically referred to above in this notice. Please note that, upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information or to request this service, contact Nicole Jacobs, City Clerk, at 819 Superior Avenue, Tomah, WI 54660.

MINUTES FOR PUBLIC WORKS COMMISSION

A Public Works Commission was held on **Wednesday, June 24, 2026 at 5:30 PM** in the Council Chambers at City Hall, 819 Superior Avenue, Tomah, WI.

Meeting was called to order at 5:30 PM by Paul Dwyer at 5:30 PM

Call to Order - Roll Call

Quorum Present (YES)

John Glynn (P), Dean Peterson (P), Travis Scholze (A), Brian Rice (P), Kerwin Greeno (P- Arrived at 5:33 pm), Mayor Paul Dwyer (P), Mitch Koel (A)

Also Present, Director Brandy Leis, Joe Kube, Jeff Marten, Brian Berquist and Nik Dorava from Town & Country.

Approve Minutes

Motion by Peterson, seconded by Glynn to approve May minutes as presented. All ayes. Motion carried.

Discussion Items

1. Airport Update

Fuel has been ordered and prices have been adjusted accordingly. Airport has been busy.

2. Discussion & Potential Action: Memorial Bench Sidewalk Installment

Motion by Peterson and seconded by Rice to approve memorial bench installment. All ayes. Motion carried.

3. Discussion & Potential Action: Galvanized Requiring Replacement (GRR)

This item was tabled for next month's meeting. No discussion or action was taken.

4. Project Updates & Pay Requests

Motion by Peterson and seconded by Greeno to approve the King/Kilbourn pay request. All ayes. Motion carried.

Motion by Peterson and seconded by Rice to approve the Hollister Pay request #3. All ayes. Motion carried.

Hollister is doing well with no complaints by residents. Glendale is still moving along. Working with the County on E Veterans project.

5. Payment of Monthly Water & Sewer Bills

Sewer- Motion by Peterson and seconded by Glyn to approve the sewer bills as presented. All ayes. Motion carried.

Water – Motion by Peterson and seconded by Glynn to approve the water bills as presented. All ayes. Motion carried.

6. Departmental Reports

Sewer – Average flow of 1.3 MGD for the month of May. Sewer Dept is continuing to work on yearly jetting and flushing sewer maintenance. A bearing went out on the bar screen which turned into 4 new sprockets and 2 new chains and about 4 days of labor from Sable, our mechanical contractor. As Sable took it apart, we believe there were parts missing from the factory which caused the bearing to fail. We are working with our vendor to see if we can get some contribution from them to pay for this as the parts from Germany and the labor for this will not be cheap. Continuing with maintenance and mowing lawns. The silo repainting project is scheduled to start the 2nd week of July.

Water – June's average daily pumpage is 880,000 gallons per day. Lead and copper samples were taken and sent to the lab. Well #11 generators are fixed and back in service and Well #12 has a new roof. No main breaks or leaks.

Public Works – Started street painting and continuing with mowing operations. A new employee started this month. Helping with Tractor Pull as needed.

7. Director's Report – Working closely with Charlie on a few items that will be brought to Council soon.

Next Meeting will be held on July 15, 2026 @ 5:30PM

Adjourn

Motion by Peterson and seconded by Rice to adjourn the meeting at 5:43 PM. All ayes. Motion carried.



STAFF COMMITTEE PREPARATION REPORT

Agenda Item:

Approval: Steve Austin – Airport Update

Summary and background information: (Appropriate documents attached)

Steve Austin is a local pilot, that has provided insight and recommendations to the commission in the past. The Commission would benefit from having a local and knowledgeable pilot that can provide feedback to the commission and give an update on the airport.

Fiscal Note:

N/A

Recommendation:

I recommend the commission approve of bringing back Steve Austin as a local pilot to provide updates on the Airport and provide insight and recommendations as needed.

Brandy Leis

7/8/2026

Director of Public Works & Utilities
Brandy Leis

Date



STAFF COMMITTEE PREPARATION REPORT

Agenda Item:

Discussion & Potential Action: Street Privilege Reimbursement

Summary and background information: (Appropriate documents attached)

Street Privilege permits were recently granted to outdoor events requesting road closures. On the occasion these events were to be cancelled due to weather, should the permit fee be reimbursed to the individual/organization/etc.?

Fiscal Note:

Recommendation:

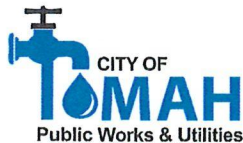
Recommendation based on discussion

Brandy Leis

7/8/2026

Public Works & Utilities Director
Brandy Leis

Date



STAFF COMMITTEE PREPARATION REPORT

Agenda Item:

Discussion and Potential Action: STH 16 Pavement Project

Summary and background information: (Appropriate documents attached)

WisDot is planning a project to mill and overlay the pavement on STH 16 (Clifton St.) This project will go from Hollister Ave to USH 12 and will update curb ramps for ADA compliance. This project is scheduled for construction in 2033. Because this is a connecting Highway, the City would be required to pay 25% of the design costs.

Fiscal Note:

Recommendation:

Recommendation based on discussion

Brandy Leis

7/8/2026

Director of Public Works & Utilities
Brandy Leis

Date

STH 16 pavement project

From Romenesko, Vicki A - DOT <Vicki.Romenesko@dot.wi.gov>

Date Mon 3/2/2026 3:32 PM

To Charles Handy <chandy@TOMAHWI.GOV>

Cc Brandy Leis <bleis@TOMAHWI.GOV>; Mayor <Mayor@TOMAHWI.GOV>; Nicholas Morales <nmorales@tomahwi.gov>

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

WisDOT is planning a project to mill and overlay the pavement on STH 16 (Clifton Street), a Tomah Connecting Highway.

The segment for the project will go from Hollister Avenue to USH 12 (Superior Avenue).

The project will also update curb ramps for ADA compliance.

The project would be scheduled for construction in 2033, with an advanceable date for 2032 if extra funding becomes available.

Because this is a Connecting Highway, the city would be required to pay 25% of the design costs.

A preliminary estimate for design costs is \$300,000. The City's portion of the design cost estimate is \$75,000.

Any real estate required for this connecting highway project will be acquired by the city.

The state will reimburse the city for the real estate acquisition costs.

The City is also responsible for the cost of any municipal owned utility adjustments or utility replacement work that may need to be completed.

We also ask the city to let us know the condition of the storm sewer on the connecting highway.

If you are agreeable to the project, I can send a State/ Municipal Financial Agreement to you with the preliminary cost estimates.

If you'd like, we can meet to discuss the project details.

Thanks much,
Vicki Romenesko, PE
Programming Engineer
WisDOT - SW Region
608-246-5333
2101 Wright Street
Madison, WI 53704



**STATE/MUNICIPAL FINANCIAL
AGREEMENT FOR A STATE- LET
HIGHWAY PROJECT**

Date: 06/22/2026
I.D.: 5881-07-02/ -72
Road Name: STH 16
Title: C Tomah, Clifton Street
Limits: Hollister Avenue to USH 12
County: Monroe
Roadway Length: 0.19 miles

The signatory **City of Tomah**, hereinafter called the Municipality, through its undersigned duly authorized officers or officials, hereby requests the State of Wisconsin Department of Transportation, hereinafter called the State, to initiate and affect the highway or street improvement hereinafter described.

The authority for the Municipality to enter into this agreement with the State is provided by Section 86.25(1), (2), and (3) of the Statutes.

NEEDS AND ESTIMATE SUMMARY:

Existing Facility - Describe and give reason for request: The existing roadway is a four-lane undivided connecting highway with an urban cross section. The segment has four twelve (12)-ft. asphaltic pavement travel lanes with curb and gutter on both sides. The existing four-lane roadway is deteriorated with cracking and rutting.

Proposed Improvement - Nature of work: Replace the existing pavement. Update curb ramps to current ADA standards as needed.

Describe non-participating work included in the project and other work necessary to finish the project completely which will be undertaken independently by the municipality: Utility cover/valve adjustments will be 100% the responsibility of the municipality. All construction costs associated with lanes utilized for parking will be 100% the responsibility of the municipality.

TABLE 1: SUMMARY OF COSTS					
Phase	Total Est. Cost	Federal/State Funds	%	Municipal Funds	%
5881-07-02 Preliminary Engineering: Plan Development	\$ 300,000	\$ 225,000	75%	\$ 75,000	25%
Real Estate Acquisition: Acquisition	\$ -	\$ -		\$ -	
5881-07-72 1 Construction: Roadway	\$ 1,000,000	\$ 1,000,000	100%	\$ -	0%
Utility Adjustments	\$ 10,000	\$ -	0%	\$ 10,000	100%
subtotal 5881-07-72:	\$ 1,010,000	\$ 1,000,000		\$ 10,000	
Non-Participating	\$ -	\$ -		\$ -	
Total Cost Distribution	\$ 1,310,000	\$ 1,225,000		\$ 85,000	
1. Estimates include construction engineering.					

This request is subject to the terms and conditions that follow (pages [2] – [4]); is made by the undersigned under proper authority to make such request for the designated Municipality, and upon signature by the State and delivery to the Municipality shall constitute agreement between the Municipality and the State. A review of the existing State Municipal Maintenance Agreement (SMMA) or creation of a new SMMA signed by the Municipality and the State shall be completed in conjunction with this agreement. The initiation and accomplishment of the improvement will be subject to the applicable federal and state regulations. No term or provision of neither the State/Municipal Financial Agreement nor any of its attachments may be changed, waived or terminated orally but only by an instrument in writing executed by both parties to the State/Municipal Financial Agreement.

Signed for and in behalf of the City of Tomah	
Name	Title
Signature	Date
Signed for and in behalf of the State	
Name	Title WisDOT Southwest Region Planning Chief
Signature	Date

TERMS AND CONDITIONS:

1. The Municipality shall pay to the State all costs incurred by the State in connection with the improvement which exceeds federal/state financing commitments or are ineligible for federal/state financing. Local participation shall be limited to the items and percentages set forth in the Summary of Costs table, which shows Municipal funding participation. In order to guarantee the Municipality's foregoing agreements to pay the State, the Municipality, through its above duly authorized officers or officials, agrees and authorizes the State to set off and withhold the required reimbursement amount as determined by the State from General Transportation Aids or any moneys otherwise due and payable by the State to the Municipality.
2. Funding of each project phase is subject to inclusion in an approved program and per the State's Facility Development Manual (FDM) standards. Federal aid and/or state transportation fund financing will be limited to participation in the costs of the following items as specified in the Summary of Costs:
 - (a) Design engineering and state review services.
 - (b) Real Estate necessitated for the improvement.
 - (c) Compensable utility adjustment and railroad force work necessitated for the project.
 - (d) The grading, base, pavement, curb and gutter, and structure costs to State standards, excluding the cost of parking areas.
 - (e) Storm sewer mains, culverts, laterals, manholes, inlets, catch basins, and connections for surface water drainage of the improvement; including replacement and/or adjustments of existing storm sewer manhole covers and inlet grates as needed.
 - (f) Construction engineering incidental to inspection and supervision of actual construction work, except for inspection, staking, and testing of sanitary sewer and water main.
 - (g) Signing and pavement marking necessitated for the safe and efficient flow of traffic, including detour routes.
 - (h) Replacement of existing sidewalks necessitated by construction and construction of new sidewalk at the time of construction. Sidewalk is considered to be new if it's constructed in a location where it has not existed before.
 - (i) Replacement of existing driveways, in kind, necessitated by the project.
 - (j) New installations or alteration resulting from roadway construction of standard State street lighting and traffic signals or devices. Alteration may include salvaging and replacement of existing components.
3. Work necessary to complete the improvement to be financed entirely by the Municipality or other utility or facility owner includes the following items:
 - (a) New installations of or alteration of sanitary sewers and connections, water, gas, electric, telephone, telegraph, fire or police alarm facilities, parking meters, and similar utilities.
 - (b) New installation or alteration of signs not necessary for the safe and efficient flow of traffic.
 - (c) Roadway and bridge width in excess of standards.
 - (d) Construction inspection, staking, and material testing and acceptance for construction of sanitary sewer and water main.
 - (e) Provide complete plans, specifications, and estimates for sanitary sewer and water main work. The Municipality assumes full responsibility for the design, installation, inspection, testing, and operation of the sanitary sewer and water system. This relieves the State and all of its employees from the liability for all suits, actions, or claims resulting from the sanitary sewer and water system construction.

- (f) Parking lane costs.
 - (g) Coordinate, clean up, and fund any hazardous materials encountered during construction. All hazardous material cleanup work shall be performed in accordance to state and federal regulations.
 - (h) Damages to abutting property due to change in street or sidewalk widths, grades, or drainage.
 - (i) Conditioning, if required, and maintenance of detour routes.
 - (j) Repair of damages to roads or streets caused by reason of their use in hauling materials incidental to the improvement.
- 4. As the work progresses, the Municipality will be billed for work completed which is not chargeable to federal/state funds. Upon completion of the project, a final audit will be made to determine the final division of costs.
 - 5. If the Municipality should withdraw the project, it shall reimburse the State for any costs incurred by the State in behalf of the project.
 - 6. The work will be administered by the State and may include items not eligible for federal/state participation.
 - 7. The Municipality shall, in cooperation with the State, assist with public relations for the project and announcements to the press and such outlets as would generally alert the affected property owners and the community of the nature, extent, and timing of the project and arrangements for handling traffic within and around the project.
 - 8. Basis for local participation:

(a) Design Engineering (5881-07-02)

The Municipality is responsible for 25% of the design engineering costs for improvements on a Connecting Highway.

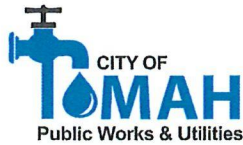
(b) Construction (5881-07-72)

As items are identified during the design phase that require cost participation or are ineligible for Federal/State funding, this agreement will be amended to reflect those costs.

Parking: In accordance with Wisconsin Statutes 86.32(4) and WisDOT policy, the Municipality is required to pay the construction cost of that part of the state trunk highway on which parking is permitted.

Municipal Utility Adjustments: The Municipality will pay 100% of the cost of adjusting water and sanitary sewer systems including manhole and valve adjustments. These costs are not eligible for Federal/State funding.

Comments and Clarification: This agreement is an active agreement that may need to be amended as the project is designed. It is understood that these amendments may be needed as some issues have not been fully evaluated or resolved. The purpose of this agreement is to specify the local and state involvement in funding the project. A signed agreement is required before the State will prepare or participate in the preparation of detailed designs, acquire right-of-way, or participate in construction of a project that merits local involvement.



STAFF COMMITTEE PREPARATION REPORT

Agenda Item:

Approval of Simplified Rate Increase for 2027

Summary and background information: (Appropriate documents attached)

It is time to pursue a simplified rate increase to maintain operational revenue with the water utility. The increase is determined by PSC at a 3% increase for 2027.

Fiscal Note:

Average users monthly increase would be \$1.00 or \$12.03 annually.

Recommendation:

I recommend the commission approve the simplified rate increase determined by the PSC

Brandy Leis

Director of Public Works & Utilities
Brandy Leis

7/8/2026

Date

ESTIMATED INCREASE FOR RESIDENTIAL CUSTOMER USING 400 CUBIC FEET PER MONTH

	2026 RATE	3% INCREASE	NEW RATE	ANNUAL REVENUE INCREASE (MAY VARY DUE TO ROUNDING)
Meter Service Charges	8.56	0.26	8.82	0.26
Public Fire Protection	10.22	0.31	10.53	0.31
Volume Charges	14.64	0.44	15.08	0.44
Monthly increase				<u>\$ 1.00</u>
Annual Increase				\$ 12.03

Current 2026	New 2027
3.66	3.77

METER SIZE	NO. OF CUSTOMERS (2025)	METER/FIXED CHARGES		NEW RATE	ANNUAL REVENUE INCREASE (MAY VARY DUE TO ROUNDING)	
		CURRENT RATE (2026)	3% INCREASE			
5/8"	3831	8.56	0.26	8.82	11,805.61	
1"	192	14.26	0.43	14.69	985.65	
1 1/2"	62	26.76	0.80	27.56	597.28	
2"	91	41.60	1.25	42.85	1,362.82	
3"	18	67.75	2.03	69.78	439.02	
4"	7	99.85	3.00	102.85	251.62	
10"	1	378.02	11.34	389.36	136.09	
					\$	15,578.09
PUBLIC FIRE PROTECTION						
5/8"	3671	10.22	0.31	10.53	13,506.34	
1"	183	13.32	0.40	13.72	877.52	
1 1/2"	59	20.51	0.62	21.13	435.63	
2"	78	30.91	0.93	31.84	867.95	
3"	14	42.80	1.28	44.08	215.71	
4"	9	51.11	1.53	52.64	165.60	
10"	1	82.02	2.46	84.48	29.53	
					\$	16,098.29
WATER USAGE FOR 2025						
		USAGE CHARGES	3% INCREASE	NEW RATE		
In Gallons	172,545,648	3.66	0.11	3.77	25,328.22	
	43,131,176	3.21	0.10	3.31	5,552.85	
	163,442,488	2.36	0.07	2.43	15,470.22	
	379,119,312				\$	46,351.30
ESTIMATED REVENUE INCREASE					\$	78,027.68

ESTIMATED INCREASE FOR RESIDENTIAL CUSTOMER USING 400 CUBIC FEET PER MONTH				ANNUAL REVENUE INCREASE (MAY VARY DUE TO ROUNDING)	
	CURRENT RATE	3% INCREASE	NEW RATE		
Meter Service Charges	8.56	0.26	8.82		0.26
Public Fire Protection	10.22	0.31	10.53		0.31
Volume Charges	14.64	0.44	15.08		0.44
Monthly increase					1.00
Annual Increase					12.03
WHEN USING A VARIABLE RATE					
	CURRENT RATE	3% INCREASE	NEW RATE		
First 6,600	3.66	0.11	3.77		
Next 10,000	3.21	0.10	3.31		
Over 16,600	2.36	0.07	2.43		
ESTIMATED INCREASE FOR CUSTOMER USING 38,400 CUBIC FEET PER MONTH					
3" Meter Service Charges	67.75	2.03	69.78		2.03
3" Public Fire Protection	42.80	1.28	44.08		1.28
Volume Charges at a Variable Rate	1,077.04	32.31	1,109.35		32.31
Monthly increase					35.63
Annual Increase					427.53
ESTIMATED INCREASE FOR CUSTOMER USING 21,000 CUBIC FEET PER MONTH					
3" Meter Service Charges	67.75	2.03	69.78		2.03
3" Public Fire Protection	42.80	1.28	44.08		1.28
Volume Charges at a Variable Rate	666.40	19.99	686.39		19.99
Monthly increase					23.31
Annual Increase					279.70



STAFF COMMITTEE PREPARATION REPORT

Agenda Item:

Discussion & Potential Action: Galvanized Requiring Replacement (GRR)

Summary and background information: (Appropriate documents attached)

The Lead and Copper Rule Improvements (LCRI) require water systems to fully replace lead and Galvanized Requiring Replacement (GRR) service lines that are under the water system's control within 10 years. The City of Tomah currently has (9) service lines that will need to be replaced. A service line replacement plan is required for any water systems with at least one lead, GRR, or unknown service line. This plan will help the water system implement their service line replacement program effectively and is due to the State by November 1, 2027. This plan will require a Standard Operating Procedure along with a funding strategy for conducting service line replacement, several more requirements can be found in the attachment. Estimated cost of replacement is \$3,000-\$6,000 per service line.

Fiscal Note:

Recommendation:

Recommendation based on discussion

Brandy Leis

Director of Public Works & Utilities
Brandy Leis

7/8/2026

Date



EPA's Final Lead and Copper Rule Improvements Technical Fact Sheet: Calculating Service Line Replacements October 2024

This fact sheet is intended to assist water systems with lead, galvanized requiring replacement (GRR), and/or unknown service lines in understanding how they can comply with the service line replacement rate requirements of the final Lead and Copper Rule Improvements (LCRI).

What are the service line replacement rate requirements?

The LCRI requires water systems to fully replace lead and GRR service lines that are under the water system's control within 10 years, with limited exceptions. A lead or GRR service line is counted as fully replaced only when the entire length of the service line (both customer side and system side) is categorized as non-lead. Water systems must replace lead and GRR service lines at an average annual replacement rate of 10 percent calculated across a cumulative period unless (1) the State determines the system can replace all lead and GRR service lines in less than 10 years or (2) the water system is using a [deferred deadline](#) and associated replacement rate that the State periodically evaluates as the fastest feasible rate for the system. **Water systems must start the mandatory service line replacement programs no later than November 1, 2027;** however, the replacement rate must be assessed at the end of program year 3 (i.e., December 31, 2030) and annually thereafter.

Which service lines must be replaced?

Water systems must fully replace **all lead and GRR service lines under their control** unless the replacement would result in a partial lead service line. If a system encounters a lead connector when replacing a lead or GRR service line, the system must also replace the lead connector. A service line is under the water system's control wherever the water system has access (e.g., legal access, physical access) to conduct full service line replacement.

What does access mean?

The final LCRI does not establish the criteria for determining whether a water system has access to conduct full service line replacement because that will depend on the specific situation. For example, there may be State or local laws governing the water system's ability to conduct replacements on private property. There may also be State or local laws requiring consent of the property owner prior to replacement. In this case, the water system would not have access to conduct a full service line replacement without the property owner's consent. Water systems must identify any applicable State or local laws or water tariff agreement requirements to gain access to conduct full service line replacement in the service line replacement plan.

If property owner consent is required for access, water systems must make a "reasonable effort" to obtain this consent. Under the LCRI, a "reasonable effort" is at least 4 attempts to engage the property owner using at least 2 different communication methods (e.g., in-person conversation, phone call, text message, email, written letter, postcard, or door hanger).

How does the system assess the cumulative average annual replacement rate?

Water systems are required to replace service lines at a **cumulative average annual replacement rate** of at least 10 percent that is assessed starting at the end of program year 3 (i.e., December 31, 2030) and annually thereafter. The number of lead and GRR service lines replaced each year contribute to the system's replacement rate. States may require a system to replace service lines at a faster rate that the state has determined is feasible. A small percentage of water systems with a high proportion of lead and GRR service lines may be eligible to use a deferred deadline (please see EPA's [deferred deadline fact sheet](#) for additional information).

Below is a 3-step process to determine the system's cumulative average annual replacement rate and compare this rate to the minimum replacement rate:

- Step 1: Calculate the replacement pool
- Step 2: Determine the cumulative number of lead and GRR service lines replaced
- Step 3: Calculate the cumulative average annual replacement rate and compare it to the minimum required rate

Step 1: Calculate the replacement pool

Calculate the replacement pool by adding the total number of lead, GRR, and unknown service lines in the baseline inventory submitted by November 1, 2027. Each entire service line (including both system- and customer-owned portions) counts only once for purposes of calculating the replacement pool.

Does the replacement pool change over time? Service line inventories may change over time as unknown service lines are investigated. Table 1 below provides the requirements for updating replacement pools at the beginning of each program year in response to annual updates to service line inventories.

Table 1: Requirements for Updating the Replacement Pool

Change to the Service Line Inventory	Required Change to the Replacement Pool		
	Add	Remain	Subtract
Unknown service lines found to be non-lead			X
Unknown service lines found to be lead or GRR		X	
Non-lead service lines found to be lead or GRR	X		
Lead or GRR service lines found to be non-lead			X
Replaced lead or GRR lines		X	
Service lines that are not under the control of the water system		X	

As shown in the last row in Table 1, replaced service lines and service lines that are not under the control of the water system **must remain** in the replacement pool to assure systems continue to replace lines at a rate that assures completion at the earliest feasible deadline. EPA recognizes that control is not static, and service lines can come under the control of the system at any time as circumstances change.

**Keep In Mind:**

Water systems must use the **current year's replacement pool**, which is based on the current year's updated inventory, to assess the replacement rate for that program year.

Step 2: Determine the cumulative number of replaced lead and GRR service lines

For each program year, calculate the total number of lead and GRR service lines that have been fully replaced. Full replacement means that the entire length of the service line (both the system and customer side) is categorized as non-lead as a result of the replacement. Full replacement can be achieved by replacing the entire service line or by replacing one portion of the line if the other portion is already non-lead (e.g., replacing a customer-owned lead service line when the system-owned service line is non-lead). Add the total number of lead and GRR service lines replaced thus far in the program to calculate the cumulative total.

Water systems must replace lead connectors when they are encountered if under the control of the water system, but replacing connectors does not count towards service line replacement rate.

Step 3: Calculate the cumulative average annual replacement rate and compare it to the minimum required rate

Calculate the **cumulative average annual replacement rate** by:

- Divide the cumulative number of service lines replaced that resulted in full service line replacement (from Step 2) by the number of service lines in the replacement pool for that year (from Step 1), and then
- Divide that number by the number of program years completed thus far.

The equation for the cumulative average annual replacement rate is:

$$\left(\frac{\text{cumulative \# of service lines replaced}}{\text{\# of service lines in replacement pool}} \right) \div \text{\# of program years completed thus far}$$

What if the required replacement deadline is shorter than 10 years, or the system has a deferred deadline?

For a shortened deadline, the required cumulative average annual replacement rate is determined by dividing 100 by the replacement deadline (in years).

- For example, if the State sets a shortened replacement deadline of 8 years, the required cumulative average annual replacement rate is $100/8 = 12.5\%$.

For a deferred deadline, the required cumulative average annual replacement rate is determined by dividing 100 by the number of years needed to achieve replacing 39 annual replacements per 1,000 service connections. For more information, see the [deferred deadline fact sheet](#).

Example: Assessing the replacement rate starting on the next page walks through Steps 1 through 3 for a hypothetical system.

Example: Assessing the replacement rate

This example walks through the steps for assessing the replacement rate. The water system in this example is required to meet the cumulative average annual replacement rate of at least 10 percent starting at the end of program year 3 (December 31, 2030). Table 2 provides a summary of data and calculations described in each step.

Table 2: Example Replacement Program Data through Year 4 for a Hypothetical System

Service Line Replacement Program Data						Calculations	
Program Year	Date Range	SLs in the Replacement Pool	Unknown SLs Identified as Non-Lead	Lead and GRR SLs Replaced Each Year	Cumulative Number of SLs Replaced	Cumulative Average Annual Replacement Rate	Is G ≥ 10%
A	B	C	D	E	F	$G = F/C/A$	H
1	November 1, 2027 – Dec 31, 2028	5,500	275	400	400		
2	Jan 1, 2029 - Dec 31, 2029	5,225	25	700	1,100		
3	Jan 1, 2030 - Dec 31, 2030	5,200	50	800	1,900	12.2%	Yes
4	Jan 1, 2031 - Dec 31, 2031	5,150	0	450	2,350	11.4%	Yes

Acronyms: GRR = galvanized requiring replacement; SL = service line.

Step ①: Calculate the replacement pool

In program year 1, the system had 3,000 lead service lines, 1,500 GRR service lines, 1,000 unknown service lines in the LCRI baseline inventory for a total of 5,500 service lines in the replacement pool.

The system continued investigating unknown lines and determined that a total of 300 unknown lines were non-lead by the beginning of program year 3. During year 3, they identified an additional 50 unknown lines as non-lead. See Columns C and D in Table 2. The system did not find any non-lead service lines that were lead or GRR during this time period.

The system updated the replacement pool each year to remove the unknown lines found to be non-lead. The results are:

- 5,500 – 300 unknown identified as non-lead = 5,200 service lines in the replacement pool at the beginning of program year 3.
- 5,200 – 50 unknown lines identified as non-lead = 5,150 service lines in the replacement pool at the beginning of program year 4.

Step ②: Determine the cumulative number of replaced lead and GRR service lines

This hypothetical system replaced between 400 and 800 lead and GRR service lines each year during the first four program years as shown in Column E in Table 2. They replaced fewer in the first program year due to contractor issues and fewer in the fourth year due to a temporary disruption in the program. The system replaced a high number of service lines in program years 2 and 3. The cumulative number of service lines replaced as shown in Column F was:

- 1,900 replaced lead/GRR service lines in program year 3.
- 2,350 replaced lead/GRR service lines in program year 4.

Step ③: Calculate the cumulative average replacement rate and compare it to the minimum required rate

The cumulative average replacement rate must be calculated for program years 3 and 4. See Columns G and H in Table 2.

To assess the rate at the end of year 3:

$$\left(\frac{1,900 \text{ service lines replaced}}{5,200 \text{ service lines in replacement pool}} \right) \div 3 \text{ program years} = 0.122 \text{ or } 12.2\%$$

Is the system replacing at a rate of 10% or more? Yes, the cumulative average replacement rate of 12.2 % is greater than 10%.

To assess the rate at the end of year 4:

$$\left(\frac{2,350 \text{ service lines replaced}}{5,150 \text{ service lines in replacement pool}} \right) \div 4 \text{ program years} = 0.114 \text{ or } 11.4\%$$

Is the system replacing at a rate of 10% or more? Yes, the cumulative average replacement rate of 11.4% is greater than 10%.

What if there are services lines not under my control?

If a water system is unable to gain access to conduct a full service line replacement, the water system is not required to replace any portion of the service line because the service line is not under the control of the water system and the rule prohibits partial lead service line replacements with some exceptions. Water systems must continue to annually publish the addresses of those service lines in the publicly accessible inventory, deliver annual notification of service line material to the consumer, and make a reasonable effort to gain access to conduct full service line replacement when the property changes ownership.

By January 30 after the end of each replacement program year, water systems must submit to the State documentation of reasons for each service line not replaced due to lack of access. Where property owner consent is required by State or local law, water systems must also submit to the State documentation of each reasonable effort (all four or more attempts) made where the system was not able to obtain consent for full service line replacement. Water systems must also replace the service line should they gain control, such as if the customer provides access.

What if a system gains access to service lines after the replacement program has begun?

If a water system gains access to a large number of service lines after the program has already begun, such as if a State or local law is passed or modified which provides access, the system must then replace these newly controlled service lines. If the replacement of these service lines prior to the replacement deadline would result in more than 39 annual replacements per 1,000 service connections, the water system will be eligible for a deferred replacement deadline according to the existing deferred deadline provisions. For more information, please see the [deferred deadline factsheet](#).

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EPA's Final Lead and Copper Rule Improvements Technical Fact Sheet: Service Line Inventory and Replacement Requirements

October 2024

This fact sheet provides an overview of the final Lead and Copper Rule Improvements (LCRI) requirements for the (1) service line inventory, (2) service line replacement plan, (3) mandatory service line replacement, and (4) notification and risk mitigation measures. Throughout this fact sheet, links are provided to other EPA fact sheets for more detail. Table 1 provides some important service line-related definitions and descriptions.

Table 1: Service Line-Related Definitions/Descriptions

Term	Definition/Description
Service line	A portion of pipe that connects the water main (or other conduit for distributing water to individual consumers or groups of consumers) to the building inlet. Where a building is not present, the service line connects the water main (or other conduit for distributing water to individual consumers or groups of consumers) to the outlet.
Lead service line	A service line that is made of lead or where a portion of the service line is made of lead. A lead-lined galvanized service line is defined as a lead service line.
Galvanized service line	A service line that is made of iron or steel that has been dipped in zinc to prevent corrosion and rusting.
Galvanized requiring replacement (GRR) Service Line	A galvanized service line that currently is or ever was downstream of a lead service line; or is currently downstream of a lead status unknown service line. For this definition, downstream means in the direction of flow through the service line. If the water system is unable to demonstrate that the galvanized service line was never downstream of a lead service line, it is a GRR service line.
Non-lead service line	A service line that is determined through an evidence-based record, method, or technique to not be a lead or GRR service line.
Lead status unknown service line (Unknown service line)	A service line whose pipe material has not been demonstrated to be a lead, GRR, or a non-lead service line.
Connector	Also referred to as a gooseneck or pigtail, a short segment of piping not exceeding 3 feet that can be bent and is used for connections between service piping, typically connecting the service line to the water main.
Partial service line replacement	Replacement of any portion of a lead or GRR service lines that leaves in service any length of lead or GRR service line upon completion of the work.
Cumulative average annual replacement rate	Systems must meet a cumulative average annual replacement rate of 10 percent that is first assessed in program year 3 and is assessed annually thereafter. For more details on how to comply with the replacement rate, see EPA's Fact Sheet: Calculating Service Line Replacements .
Program year	The first program year runs from November 1, 2027 to the end of the next calendar year (December 31, 2028). Every program year thereafter is a calendar year (January 1 to December 31). For example, program year 2 is January 1, 2029, to December 31, 2029.

1. Service Line Inventory Requirements under the LCRI

The service line inventory provides a foundation for water systems to address a significant source of lead in drinking water, lead and galvanized requiring replacement (GRR) service lines. Table 2 provides a summary of the service line inventory-related requirements under the LCRI.

Table 2: LCRI Service Line Inventory Requirements

Requirement	Description
2021 LCRR Initial inventory	- The LCRI retains the requirements from the 2021 Lead and Copper Rule Revisions (LCRR) to develop and submit an initial inventory by October 16, 2024. - This inventory must include all service lines, regardless of ownership status. - Service lines must be categorized as lead, non-lead, GRR, or unknown.
Baseline inventory	- The baseline inventory builds on the initial inventory and is due by November 1, 2027. It must include information identified on connectors as well as any updated or new information on service line materials and locations. - Systems must review specified sources of information for connector materials and categorize them as "Lead", "Non-lead", "Unknown", or "No connector present" where there is no connector at the location.
Updated inventory	- The inventory is a living dataset that should be continually revised over time as systems replace lead and GRR service lines and identify the material of unknown service lines. - After the end of the program year 1 (by January 30, 2029), and every January 30th thereafter, water systems must submit an inventory update and post it online, including total counts for each service line material, total counts for known lead connectors and connectors of unknown material, and total number of full and partial replacements that occurred in the past year. - Systems with all non-lead service lines are not required to submit or post inventory updates (unless lead or GRR service lines are discovered during the inventory validation process).
Identification of unknown service lines	Water systems must identify the material of all unknown service lines in their inventory by their mandatory service line replacement deadline.
Validation of non-lead service lines	- To assess inventory accuracy, water systems must validate a subset of their non-lead service lines no later than December 31, 2034, or on a schedule specified by the State. - Water systems that completed validation efforts before November 1, 2027 that are at least as stringent as the LCRI requirements can request a waiver from the State. See the LCRI validation fact sheet for more information.



Keep In Mind:

- Water systems must make the service line inventory **publicly accessible**.
 - Systems serving more than 50,000 people must post it online.
 - All other water systems can elect to post it online or use another method to make it accessible to the public (e.g., by mail, available at the water system's office).
- Starting with the Baseline Inventory, the publicly accessible inventory must include the **street address** of each service line and identified connector. Where a street address is not available, a unique locational identifier (e.g., block, GPS coordinates, intersection, or landmark) may be used.
- Water systems with no lead, GRR, or unknown service lines, no known lead connectors, and no connectors of unknown material:
 - Must complete the inventory validation process described above and in the [LCRI validation fact sheet](#).
 - May provide (1) a written statement that their system has no lead, GRR, or unknown service lines, no known lead connectors, and no connectors of unknown material and (2) a general description of the methods used to make this determination.
 - Are not required to submit annual updates; however, if they later discover a lead or GRR service line or lead connector, they must notify the State within 60 days, comply with any additional actions required by the State, and prepare an updated inventory.

2. Service Line Replacement Plan Requirements under the LCRI

What information must be included in the Service Line Replacement Plan?

A service line replacement plan is required for any water systems with at least one lead, GRR, or unknown service line. This plan can help the water system implement their service line replacement program effectively. It is due to the State by November 1, 2027 and must include:

- ① A description of a strategy to identify the material composition of all unknown service lines in the inventory.
- ② A standard operating procedure for conducting full service line replacement.
- ③ A communication strategy for informing consumers and customers before a full or partial lead or GRR service line replacement.
- ④ A procedure for consumers and customers to flush service lines and premise plumbing of particulate lead following a disturbance of a lead, GRR, or unknown service lines or following full or partial replacement.
- ⑤ A strategy to prioritize service line replacement based on factors such as known lead and GRR service lines and community-specific factors.
- ⑥ A funding strategy for conducting service line replacement that includes ways to accommodate customers that are unable to pay to replace the portion of the service line they own.
- ⑦ A communication strategy to inform both consumers and customers served by the water system about the replacement plan and program.
- ⑧ Identification of any laws, regulations, and/or water tariff agreements that affect the water system's ability to gain access to conduct full replacement.
- ⑨ For water systems that identify any lead-lined galvanized service lines in the inventory, a strategy to determine the extent of their use in the distribution system.

What additional information must be included in the plan related to Deferred Deadlines?

The final LCRI includes a [deferred deadline](#) option for systems with a high proportion of lead and GRR service lines compared to the number of total service connections. Systems that are using a deferred deadline must include additional elements in their service line replacement plan, as summarized in Table 3.

Table 3: Additional Service Line Replacement Plan Elements for a Deferred Deadline

Description	
Initial Replacement Rate and Deferred Deadline	The following elements are required as part of the initial service line replacement plan that is due by November 1, 2027: • Documentation to support the system's determination that it is eligible for a deferred deadline by showing that 10 percent of the total number of known lead and GRR service lines in the replacement pool exceeds 39 annual replacements per 1,000 service connections. Systems may not include unknown service lines in this determination. • Identification of the deferred deadline and the associated cumulative average annual replacement rate¹ that the system considers to be the fastest feasible, but no slower than a deadline and replacement rate corresponding to 39 annual replacements per 1,000 service connections. • The annual number of replacements required, the length of time (in years and months), and the date of completion for the deadline and rate. • Information supporting the system's determination that replacing lead and GRR service lines at a rate faster than 39 replacements per 1,000 service connections is not feasible.
Continued Evaluation of Replacement Rate and Deferred Deadline	Every three years after the initial submission of the plan, the system must provide updated information to support the State's evaluation of why it continues to need the deferred deadline.

¹ See EPA's fact sheets on [deferred deadline](#) and on [calculating the service line](#) replacement rate for additional information.



Keep In Mind:

- Water systems must make their plan **publicly accessible**, and those serving more than 50,000 people must post their plan online.

3. Mandatory Service Line Replacement

The LCRI requires all community water systems (CWSs) and non-transient non-community water systems (NTNCWSs) to fully replace all lead and GRR service lines under their *control* **within 10 years**, unless the system is eligible for a deferred deadline or the State sets a shortened deadline. The LCRI service line replacement requirements are summarized in Table 4.

A service line is under the control of the water system wherever the system has access (e.g., legal access, physical access) to conduct full service line replacement.

Table 4: LCRI Service Line Replacement Requirements

Requirement	Description
Replace all lead and GRR service lines	Water systems must fully replace all lead and GRR service lines under their control within 10 years, unless they are required by the State to replace them sooner or have a deferred deadline .
Cumulative average annual replacement rate	Water systems must assess the cumulative average annual replacement rate of 10 percent beginning at the end of program year 3 (December 31, 2030) and annually thereafter. See EPA's Calculating Service Line Replacements Fact Sheet for detailed requirements and guidance. A lead or GRR service line counts as fully replaced only when the entire length of the service line (both customer side and system side) is non-lead.
Obtaining property owner consent (if required)	- Where a water system has legal access to conduct full service line replacement only if property owner consent is obtained, water systems must make a "reasonable effort" to obtain consent. - Under the LCRI a "reasonable effort" is at least 4 attempts to engage the property owner using at least 2 different communication methods (e.g., in-person conversation, phone call, text message, email, written letter, postcard, or door hanger). - The water system must continue annual notification of service lines known or potentially containing lead regardless of whether access is obtained after making a "reasonable effort" as described above.
Change in ownership	- Within 6 months of a change in property ownership, water systems must offer full service line replacement to the new property owner. - Within one year of any change in ownership of the property, the system must make a "reasonable effort" to obtain the property owner's consent.
Partial replacements	- Partial replacements are prohibited unless conducted as part of an emergency repair or in coordination with planned infrastructure work that impacts the service line (e.g., water main replacement, meter replacement). Infrastructure work does not include projects solely to replace lead and GRR service lines as part of a service line replacement program. Additional requirements to mitigate the impact of a partial replacement are required following partial service line replacement. - During partial replacements, systems must install a dielectric coupling separating the remaining portion of the service line and the replaced portion of the service line (i.e., newly installed line) to prevent galvanic corrosion, unless the replaced service line is made of plastic. - Partial replacements do not count towards the system's mandatory replacement rate.
Replacing lead connectors	Water systems must replace lead connectors under their control when encountered during planned or unplanned water system infrastructure work. Replacing lead connectors does not count towards the mandatory replacement rate.

4. Notification and Risk Mitigation Requirements

Lead service line replacement activities can break apart corrosion scales and cause temporary increases in lead in drinking water. To protect public health, the LCRI requires water systems to conduct notification and risk mitigation measures following full and partial lead and GRR service line replacements. Specifically, water systems must provide consumers with the following:

- Notification that explains that the consumer may experience a temporary increase of lead levels in their drinking water due to the replacement and contact information for the water system;
- Written information about a procedure for the consumer to flush service lines and premise plumbing of particulate lead following replacement; and
- A pitcher filter or point-of-use device that is certified by an American National Standards Institute (ANSI) accredited certifier to reduce lead along with six months' worth of replacement cartridges and instructions for use.

For any service line replacement, notification and risk mitigation measures must occur before the affected line is returned to service. Additionally, the water system must offer to collect a follow-up tap sample between three months and six months after the completion of the replacement and test for lead.

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Contractor's Application for Payment

Owner: City of Tomah **Owner's Project No.:** _____
Engineer: Town & Country Engineering, Inc. **Engineer's Project No.:** TO 150
Contractor: Gerke Excavating, Inc. **Contractor's Project No.:** _____
Project: 2026 Street and Utility Improvements - Hollister Ave, Schaller St and West Elizabeth St

Application No.: 4 **Application Date:** 7/8/2026
Application Period: From 6/9/2026 to 7/3/2026

1. Original Contract Price	\$ 3,056,123.86
2. Net change by Change Orders	\$ 18,319.60
3. Current Contract Price (Line 1 + Line 2)	\$ 3,074,443.46
4. Total Work completed and materials stored to date (Sum of Column G Lump Sum Total and Column J Unit Price Total)	\$ 1,422,849.79
5. Retainage	
a. 5.0% X \$1,422,849.79 Work Completed	\$ 71,142.49
b. 5.0% X _____ Stored Materials	\$ -
c. Total Retainage (Line 5.a + Line 5.b)	\$ 71,142.49
6. Amount eligible to date (Line 4 - Line 5.c)	\$ 1,351,707.30
7. Less previous payments (Line 6 from prior application)	\$ 832,124.73
8. Amount due this application	\$ 519,582.57
9. Balance to finish, including retainage (Line 3 - Line 6)	\$ 1,722,736.16

Contractor's Certification

The undersigned Contractor certifies, to the best of its knowledge, the following:

- (1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;
- (2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such liens, security interest, or encumbrances); and
- (3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective

Contractor: Gerke Excavating Inc
Signature: [Signature] **Date:** 7/9/26

Recommended by Engineer	Approved by Owner
By: <u>Nikolas Dama</u> <u>[Signature]</u>	By: _____
Title: <u>Project Engineer</u>	Title: _____
Date: <u>7-9-26</u>	Date: _____

Approved by Funding Agency

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

Progress Estimate - Unit Price Work **Contractor's Application for Payment**

Owner: City of Tomah
 Engineer: Town & Country Engineering, Inc.
 Contractor: Gerke Excavating, Inc.
 Project: 2026 Street and Utility Improvements - Hollister Ave, Schaller St and West Elizabeth St

Owner's Project No.
 Engineer's Project No. TO 150
 Contractor's Project No.

Application No.: 4

From 6/9/2026 to 7/3/2026

Application Date: 7/8/2026

A Bid Item No.	B Description	C	D	Contract Information			F	This Period		G	H		J Work Completed and Materials Stored to Date (H) (\$)	K % of Value of Item (J / F) (%)	L Balance to Finish (F - J) (\$)	
				Item Qty.	Units	Unit Price (\$)		Value of Bid Item (C X E) (\$)	Qty.		Value (\$)	Work Completed				
												Estimated Quantity Incorporated in the Work				Value of Work Completed to Date (E X G) (\$)
Original Contract																
BASE BID - Hollister Avenue, Elizabeth Street and Schaeffer Street																
1	8" PVC Sanitary Sewer	2,380	lin. ft.	\$ 88.95	\$ 211,701.00	1,180.00	\$ 104,961.00	2,127.00	\$ 189,196.65				\$ 189,196.65	89%	\$ 22,504.35	
2	6" PVC Sanitary Sewer Laterals	885	lin. ft.	\$ 44.72	\$ 39,577.20	160.00	\$ 7,155.20	834.00	\$ 37,296.48				\$ 37,296.48	94%	\$ 2,280.72	
3	48" Standard Sanitary Manhole Masonry	48	vert. ft.	\$ 547.06	\$ 26,083.82	7.70	\$ 4,212.36	48.00	\$ 26,258.88				\$ 26,258.88	101%	\$ (175.06)	
4	Sanitary Manhole Castings	13	each	\$ 1,886.12	\$ 24,519.56	-	\$ -	-	\$ -				\$ -	0%	\$ 24,519.56	
5	Existing Casting Adjustment	8	each	\$ 821.42	\$ 6,571.36	-	\$ -	-	\$ -				\$ -	0%	\$ 6,571.36	
6	8" x 6" Sanitary Sewer Wyes	25	each	\$ 352.69	\$ 8,817.25	3.00	\$ 1,058.07	26.00	\$ 9,169.94				\$ 9,169.94	104%	\$ (352.69)	
7	6" x 4" PVC Reducers	14	each	\$ 327.28	\$ 4,581.92	2.00	\$ 654.56	20.00	\$ 6,545.60				\$ 6,545.60	143%	\$ (1,963.68)	
8	Sanitary Service Lateral Reconnections	21	each	\$ 639.20	\$ 13,423.20	5.00	\$ 3,196.00	22.00	\$ 14,062.40				\$ 14,062.40	105%	\$ (639.20)	
9	12" D.I. Water Main	1,740	lin. ft.	\$ 146.49	\$ 254,892.60	527.00	\$ 77,200.23	1,524.00	\$ 223,250.76				\$ 223,250.76	88%	\$ 31,641.84	
10	8" D.I. Water Main	1,980	lin. ft.	\$ 107.77	\$ 213,384.60	-	\$ -	1,260.00	\$ 135,790.20				\$ 135,790.20	64%	\$ 77,594.40	
11	6" D.I. Hydrant Leads and Water Main	84	lin. ft.	\$ 140.70	\$ 11,818.80	-	\$ -	62.00	\$ 8,723.40				\$ 8,723.40	74%	\$ 3,095.40	
12	4" Styrofoam Insulation	8	lin. ft.	\$ 148.62	\$ 1,188.96	-	\$ -	16.00	\$ 2,377.92				\$ 2,377.92	200%	\$ (1,188.96)	
13	12" Gate Valves and Boxes	7	each	\$ 5,209.64	\$ 36,467.48	2.00	\$ 10,419.28	6.00	\$ 31,257.84				\$ 31,257.84	86%	\$ 5,209.64	
14	8" Gate Valves and Boxes	5	each	\$ 3,005.34	\$ 15,026.70	2.00	\$ 6,010.68	5.00	\$ 15,026.70				\$ 15,026.70	100%	\$ -	
15	6" Gate Valves and Boxes	7	each	\$ 2,169.01	\$ 15,183.07	-	\$ -	5.00	\$ 10,845.05				\$ 10,845.05	71%	\$ 4,338.02	
16	Hydrants	7	each	\$ 6,476.49	\$ 45,335.43	-	\$ -	5.00	\$ 32,382.45				\$ 32,382.45	71%	\$ 12,952.98	
17	1" Corporation Stops	38	each	\$ 354.64	\$ 13,476.32	6.00	\$ 2,127.84	29.00	\$ 10,284.56				\$ 10,284.56	76%	\$ 3,191.76	
18	1.5" Corporation Stops	1	each	\$ 1,477.78	\$ 1,477.78	-	\$ -	1.00	\$ 1,477.78				\$ 1,477.78	100%	\$ -	
19	1" Curb Stops	38	each	\$ 461.12	\$ 17,522.56	6.00	\$ 2,766.72	29.00	\$ 13,372.48				\$ 13,372.48	76%	\$ 4,150.08	
20	1.5" Curb Stops	1	each	\$ 1,474.31	\$ 1,474.31	-	\$ -	1.00	\$ 1,474.31				\$ 1,474.31	100%	\$ -	
21	1" Curb Stop Boxes	38	each	\$ 360.91	\$ 13,714.58	6.00	\$ 2,165.46	29.00	\$ 10,466.39				\$ 10,466.39	76%	\$ 3,248.19	
22	1.5" Curb Stop Boxes	1	each	\$ 1,262.70	\$ 1,262.70	-	\$ -	1.00	\$ 1,262.70				\$ 1,262.70	100%	\$ -	
23	1" Copper Water Service Laterals	1,300	lin. ft.	\$ 44.14	\$ 57,382.00	210.00	\$ 9,269.40	905.00	\$ 39,946.70				\$ 39,946.70	70%	\$ 17,435.30	
24	1.5" Copper Water Service Laterals	25	lin. ft.	\$ 69.96	\$ 1,749.00	-	\$ -	21.00	\$ 1,469.16				\$ 1,469.16	84%	\$ 279.84	
25	Water Service Lateral Reconnections	35	each	\$ 313.69	\$ 10,979.15	6.00	\$ 1,882.14	29.00	\$ 9,097.01				\$ 9,097.01	83%	\$ 1,882.14	
26	Existing Main Reconnections	7	each	\$ 5,155.26	\$ 36,086.82	1.00	\$ 5,155.26	4.00	\$ 20,621.04				\$ 20,621.04	57%	\$ 15,465.78	
27	12" HP Storm Sewer	640	lin. ft.	\$ 27,449.60	\$ 17,449.60	282.00	\$ 12,094.98	334.00	\$ 14,325.26				\$ 14,325.26	52%	\$ 13,124.34	
28	15" HP Storm Sewer	210	lin. ft.	\$ 49.23	\$ 10,338.30	176.00	\$ 8,664.48	176.00	\$ 8,664.48				\$ 8,664.48	84%	\$ 1,673.82	
29	18" HP Storm Sewer	1,070	lin. ft.	\$ 57.41	\$ 61,428.70	300.00	\$ 17,223.00	1,070.00	\$ 61,428.70				\$ 61,428.70	100%	\$ -	
30	12" HP Apron Endwall Without Grate	3	each	\$ 501.81	\$ 1,505.43	-	\$ -	-	\$ -				\$ -	0%	\$ 1,505.43	
31	18" HP Apron Endwall With Grate	1	each	\$ 1,569.64	\$ 1,569.64	-	\$ -	-	\$ -				\$ -	0%	\$ 1,569.64	
32	4" Sump Drain	430	lineal ft.	\$ 27.12	\$ 11,661.60	10.00	\$ 271.20	10.00	\$ 271.20				\$ 271.20	2%	\$ 11,390.40	

Bid Item No.	Description	Contract Information				This Period		Work Completed		Work Completed and Materials Stored to Date (H) (\$)	% of Value of Item (J / F) (%)	Balance to Finish (F - J) (\$)
		Item Qty.	Units	Unit Price (\$)	Value of Bid Item (C X E) (\$)	Qty.	Value (\$)	Estimated Quantity Incorporated in the Work	Value of Work Completed to Date (E X G) (\$)			
33	4" PVC Tees or Elbows for Sump Pump Drains	6	each	\$ 208.56	\$ 1,251.36	-	\$ -	-	\$ -	\$ -	0%	\$ 1,251.36
34	Rectangular Curb Catch Basin with Casting	33	each	\$ 3,840.05	\$ 126,721.65	17.00	\$ 65,280.85	27.00	\$ 103,681.35	\$ 103,681.35	82%	\$ 23,040.30
35	Excavation/Fill to Subgrade	1	lump sum	\$ 193,757.17	\$ 193,757.17	0.20	\$ 38,751.43	0.50	\$ 96,878.59	\$ 96,878.59	50%	\$ 96,878.58
36	Excavation and Disposal of Bad Subbase Below Subgrade	1,750	cu. yd.	\$ 13.19	\$ 23,082.50	525.00	\$ 6,924.75	525.00	\$ 6,924.75	\$ 6,924.75	30%	\$ 16,157.75
37	3" Breaker Run Base Course & Breaker Run Replacement of Excavation of Bad Subbase Below Subgrade	15,450	tons	\$ 14.99	\$ 231,595.50	5,487.97	\$ 82,264.67	5,487.97	\$ 82,264.67	\$ 82,264.67	36%	\$ 149,330.83
38	3/4" Crushed Aggregate Base Course	11,500	tons	\$ 16.49	\$ 189,635.00	4,595.67	\$ 75,782.60	4,834.61	\$ 79,722.72	\$ 79,722.72	42%	\$ 109,912.28
39	Sawcutting Existing Concrete and Asphalt Pavements	1,650	lin. ft.	\$ 2.36	\$ 3,894.00	260.00	\$ 613.60	1,260.00	\$ 2,973.60	\$ 2,973.60	76%	\$ 920.40
40	Topsoil Restoration, Seeding, Fertilizing & Mulching	10,000	sq. yds.	\$ 5.85	\$ 58,500.00	-	\$ -	-	\$ -	\$ -	0%	\$ 58,500.00
41	1.75" Hot Mix Asphalt Lower Course, Type 4 LT	1,700	tons	\$ 133.94	\$ 227,698.00	-	\$ -	-	\$ -	\$ -	0%	\$ 227,698.00
42	Clean & Tack	15,400	sq. yds.	\$ 1.01	\$ 15,554.00	-	\$ -	-	\$ -	\$ -	0%	\$ 15,554.00
43	1.5" Hot Mix Asphalt Surface Course, Type 5 LT	1,480	tons	\$ 115.90	\$ 171,532.00	-	\$ -	-	\$ -	\$ -	0%	\$ 171,532.00
44	3" Hot-Mix Asphalt Driveways	450	sq. yds.	\$ 30.50	\$ 13,725.00	-	\$ -	-	\$ -	\$ -	0%	\$ 13,725.00
45	24" Concrete Curb & Gutter	7,125	lin. ft.	\$ 17.85	\$ 127,181.25	-	\$ -	-	\$ -	\$ -	0%	\$ 127,181.25
46	4" Thick Concrete Sidewalk	34,000	sq. ft.	\$ 5.76	\$ 195,840.00	-	\$ -	-	\$ -	\$ -	0%	\$ 195,840.00
47	6" Thick Concrete Sidewalk and Driveway Approaches	17,500	sq. ft.	\$ 5.88	\$ 102,900.00	-	\$ -	-	\$ -	\$ -	0%	\$ 102,900.00
48	Remove and Replace Walkway with Rail	1	lump sum	\$ 4,986.42	\$ 4,986.42	-	\$ -	-	\$ -	\$ -	0%	\$ 4,986.42
49	Remove and Reinstall Brick Drive at #515 Schaller Street	1	lump sum	\$ 1,862.42	\$ 1,862.42	-	\$ -	-	\$ -	\$ -	0%	\$ 1,862.42
50	Remove, Relocate and Reinstall Mailboxes and Signs	1	lump sum	\$ 10,822.53	\$ 10,822.53	-	\$ -	0.50	\$ 5,411.27	\$ 5,411.27	50%	\$ 5,411.26
51	Regrade Ditch Station 21+30	100	lin. ft.	\$ 17.45	\$ 1,745.00	-	\$ -	-	\$ -	\$ -	0%	\$ 1,745.00
52	Erosion Control	1	lump sum	\$ 9,377.23	\$ 9,377.23	-	\$ -	1.00	\$ 9,377.23	\$ 9,377.23	100%	\$ -
53	Traffic Control	1	lump sum	\$ 10,080.00	\$ 10,080.00	-	\$ -	1.00	\$ 10,080.00	\$ 10,080.00	100%	\$ -
54	Valley Gutter	1	each	\$ 2,625.00	\$ 2,625.00	-	\$ -	-	\$ -	\$ -	0%	\$ 2,625.00
ALTERNATE BID NO. 1 - Recycled Aggregate												
A1-1	Add/Deduct for 3" Recycled Concrete Breaker Run Base Course (pay in addition to Base Bid Item 38)	16,550	tons	\$ -	\$ -	5,487.97	\$ -	5,487.97	\$ -	\$ -	-	\$ -
A1-2	Add/Deduct for 3/4" Recycled Concrete Base Course (pay in addition to Base Bid Item 39)	12,100	tons	\$ (0.52)	\$ (6,292.00)	4,595.67	\$ (2,389.75)	5,820.69	\$ (3,026.76)	\$ (3,026.76)	48%	\$ (3,265.24)
ALTERNATE BID NO. 2 - Glendale Avenue												
A2-1	8" D.I. Water Main	55	lin. ft.	\$ 106.69	\$ 5,867.95	-	\$ -	59.00	\$ 6,294.71	\$ 6,294.71	107%	\$ (426.76)
A2-2	12" D.I. Water Main	110	lin. ft.	\$ 178.12	\$ 19,593.20	-	\$ -	122.00	\$ 21,730.64	\$ 21,730.64	111%	\$ (2,137.44)
A2-3	8" Gate Valves and Boxes	1	each	\$ 3,901.09	\$ 3,901.09	-	\$ -	1.00	\$ 3,901.09	\$ 3,901.09	100%	\$ -
A2-4	12" Gate Valves and Boxes	2	each	\$ 5,403.86	\$ 10,807.72	-	\$ -	2.00	\$ 10,807.72	\$ 10,807.72	100%	\$ -
A2-5	Existing Main Reconstructions	4	each	\$ 1,875.66	\$ 7,502.64	-	\$ -	4.00	\$ 7,502.64	\$ 7,502.64	100%	\$ -

Bid Item No.	Description	Contract Information				This Period		Work Completed		Work Completed and Materials Stored to Date (H) (\$)	% of Value of Item (J / F) (%)	Balance to Finish - J) (\$)
		Item Qty.	Units	Unit Price (\$)	Value of Bid Item (C X E) (\$)	Qty.	Value (\$)	Estimated Quantity Incorporated in the Work	Value of Work Completed to Date (E X G) (\$)			
A2-6	Excavation/Fill to Subgrade	1	lump sum	\$ 10,750.06	\$ 10,750.06	-	\$ -	0.50	\$ 5,375.03	\$ 5,375.03	50%	\$ 5,375.03
A2-7	Excavation and Disposal of Bad Subbase Below Subgrade	150	cu. yd.	\$ 14.29	\$ 2,143.50	-	\$ -	-	\$ -	\$ -	0%	\$ 2,143.50
A2-8	3" Breaker Run Base Course & Breaker Run Replacement of Excavation of Bad Subbase Below Subgrade	1,100	tons	\$ 14.99	\$ 16,489.00	-	\$ -	371.46	\$ 5,568.19	\$ 5,568.19	34%	\$ 10,920.81
A2-9	3/4" Crushed Aggregate Base Course	600	tons	\$ 16.65	\$ 9,990.00	-	\$ -	504.25	\$ 8,395.76	\$ 8,395.76	84%	\$ 1,594.24
A2-10	Topsoil Restoration, Seeding, Fertilizing & Mulching	500	sq. yds.	\$ 9.42	\$ 4,710.00	-	\$ -	-	\$ -	\$ -	0%	\$ 4,710.00
A2-11	24" Concrete Curb & Gutter	180	lin. ft.	\$ 17.85	\$ 3,213.00	180.00	\$ 3,213.00	180.00	\$ 3,213.00	\$ 3,213.00	100%	\$ -
A2-12	4" Thick Concrete Sidewalk	500	sq. ft.	\$ 10.50	\$ 5,250.00	\$ -	\$ -	-	\$ -	\$ -	0%	\$ 5,250.00
A2-13	6" Thick Concrete Sidewalk and Driveway Approaches	1,400	sq. ft.	\$ 5.88	\$ 8,232.00	-	\$ -	-	\$ -	\$ -	0%	\$ 8,232.00
A2-14	Erosion Control	1	lump sum	\$ 477.95	\$ 477.95	-	\$ -	1.00	\$ 477.95	\$ 477.95	100%	\$ -
A2-15	Traffic Control	1	lump sum	\$ 630.00	\$ 630.00	-	\$ -	1.00	\$ 630.00	\$ 630.00	100%	\$ -
SUPPLEMENTAL BID ITEMS												
S1	Existing Property Corner Replacement	12	each	\$ 166.69	\$ 2,000.28	-	\$ -	-	\$ -	\$ -	0%	\$ 2,000.28
S2	Removal and Replacement of Unsuitable Trench Backfill	2,000	cu. yds. in the trench	\$ 14.42	\$ 28,840.00	-	\$ -	-	\$ -	\$ -	0%	\$ 28,840.00
Original Contract Totals					\$ 3,056,123.86		\$ 546,929.01		\$ 1,404,530.19	\$ 1,404,530.19	46%	\$ 1,651,593.67
Change Orders												
CO1	Additional Stump Removal	1	lump sum	\$ 18,319.60	\$ 18,319.60	1.00	\$ 18,319.60	1.00	\$ 18,319.60	\$ 18,319.60	100%	\$ -
Change Order Totals					\$ 18,319.60				\$ 18,319.60	\$ 18,319.60	100%	\$ -
Original Contract and Change Orders												
Project Totals					\$ 3,074,443.46				\$ 1,422,849.79	\$ 1,422,849.79	46%	\$ 1,651,593.67