



RESOLUTION NO. U-11399

1 A RESOLUTION related to Tacoma Water; authorizing participation in a City of
2 Tacoma, Department of Public Works ("Public Works") and Engineering
3 Division contract for the Prairie Line Trail Phase 2 Project ("Project").

4 WHEREAS Tacoma Water is partnering with Public Works and the
5 Engineering Division to reconstruct the existing roadway and replace
6 approximately water main constructed circa 1887 to 1907, and

7 The Project is proposed to construct approximately 1,500 feet of 6-inch,
8 8-inch, and 12-inch ductile iron water main along S. Hood Street, between S.
9 25th and S. 23rd St., S. 23rd St. between Jefferson Ave. and Holgate St., and S.
10 21st St., between Jefferson Ave. and S. C St., and

11 WHEREAS the Project has agreed to incorporate the water main work
12 into their competitively bid contract (PW23-0060F), and

13 WHEREAS Tacoma Water, Public Works, and the Engineering Division
14 believe consolidating the water main in the Project will improve project delivery,
15 reduce project costs, improve system reliability, and consolidate construction
16 disturbance to residents and businesses, and

17 WHEREAS the overall Project will upgrade the existing roadway into a
18 non-motorized shared-use path, upgrade underground utilities, and bring ramps
19 into ADA compliance, and

20 WHEREAS the total Project cost is \$648,084.42, plus a 15 percent
21 contingency, for a cumulative total contribution of \$745,297.08, plus applicable
22 taxes, with funds available from the 4600 Tacoma Water Capital Reserve Fund,
23 and
24
25
26



WHEREAS Tacoma Water requests authority to participate in the Public Works/Engineering Division contract for the above purpose, Now, Therefore,
BE IT RESOLVED BY THE PUBLIC UTILITY BOARD OF THE CITY OF TACOMA:

That Tacoma Water is authorized to participate in the Public Works and Engineering Division's contract (PW23-0060F) for the purpose of replacing approximately 1,500 feet of water main and constructing new 6-inch, 8-inch, and 12-inch water mains, for a total Project cost is \$648,084.42, plus a 15 percent contingency, for a cumulative total contribution of \$745,297.08, plus applicable taxes, with funds available from the 4600 Tacoma Water Capital Reserve Fund, and the proper officers of the City are authorized to execute an agreement in a form as approved by the City Attorney's Office.

Approved as to form:

_____	_____
/s/	Chair
Chief Deputy City Attorney	Secretary
_____	Adopted _____
Clerk	



Board Action Memorandum

TO: Jackie Flowers, Director of Utilities DS
JF
COPY: Charleen Jacobs, Director and Board Offices
Jodi Collins, Asst Division Mgr of Water Utilities, Tacoma Water
FROM: Jessica Knickerbocker, Division Mgr of Planning & Engineering, Tacoma Water DS
Scott Dewhirst, Utilities Dir Dep. Water Superintendent, Tacoma Water
Katie Lindberg, Associate Engineer, Tacoma Water
MEETING DATE: August 23, 2023
DATE: August 2, 2023

STRATEGIC DIRECTIVE ALIGNMENT (select as many that apply):

Please indicate which of the Public Utility Board's Strategic Directives is supported by this action.

- | | |
|--|---|
| <input type="checkbox"/> SD1 – Equity & Inclusion | <input type="checkbox"/> SD8 – Telecom |
| <input type="checkbox"/> SD2 – Financial Sustainability | <input type="checkbox"/> SD9 – Economic Development |
| <input type="checkbox"/> SD3 – Rates | <input type="checkbox"/> SD10 – Government Relations |
| <input type="checkbox"/> SD4 – Stakeholder Engagement | <input type="checkbox"/> SD11 – Decarbonization/Electric Vehicles |
| <input type="checkbox"/> SD5 – Environmental Leadership | <input type="checkbox"/> SD12 – Employee Relations |
| <input type="checkbox"/> SD6 – Innovation | <input type="checkbox"/> SD13 – Customer Service |
| <input checked="" type="checkbox"/> SD7 – Reliability & Resiliency | <input type="checkbox"/> SD14 – Resource Planning |

SUMMARY:

Authorize Tacoma Water to participate in the City of Tacoma, Department of Public Works, Prairie Line Trail Phase 2 Project. Tacoma Water proposes to replace approximately 1,500 feet of 12-inch, 8-inch, and 6-inch water main along S. Hood St., between S. 25th St. and S. 23rd St., S. 23rd St., between Jefferson Ave. and Holgate St., and S. 21st St., between Jefferson Ave. and S. C St.

Total project cost is \$648,084.42 plus a 15 percent contingency, for a cumulative total of \$745,297.08 11 plus applicable taxes.

Tacoma Water believes it is in the best interest of the utility and its customers to include the water main work in the Public Works project. This project partnership will improve project delivery, reduce project costs, improve system reliability, and consolidate construction disturbance to residents and businesses.

BACKGROUND:

Tacoma Water is partnering with the Public Works Department to reconstruct the existing roadway and replace approximately 1,500 feet of existing water main, constructed circa 1887 to 1907.

The overall project will upgrade the existing roadway into a non-motorized shared-use path, upgrade underground utilities, and bring ramps into ADA compliance.



Board Action Memorandum

Project partner contributions are summarized in the attachment “Secondary Agreement for Joint Project Public Works - Tacoma Water”.

ISSUE: The existing water main in this area is approximately 136 to 116 years old, with sections near the end of its operational life.

ALTERNATIVES: Rehabilitating the existing water main is cost prohibitive. It is more cost effective to mitigate the risk of future water main breaks under a new roadway and path by replacing the water main now.

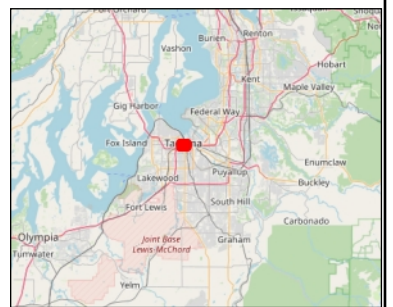
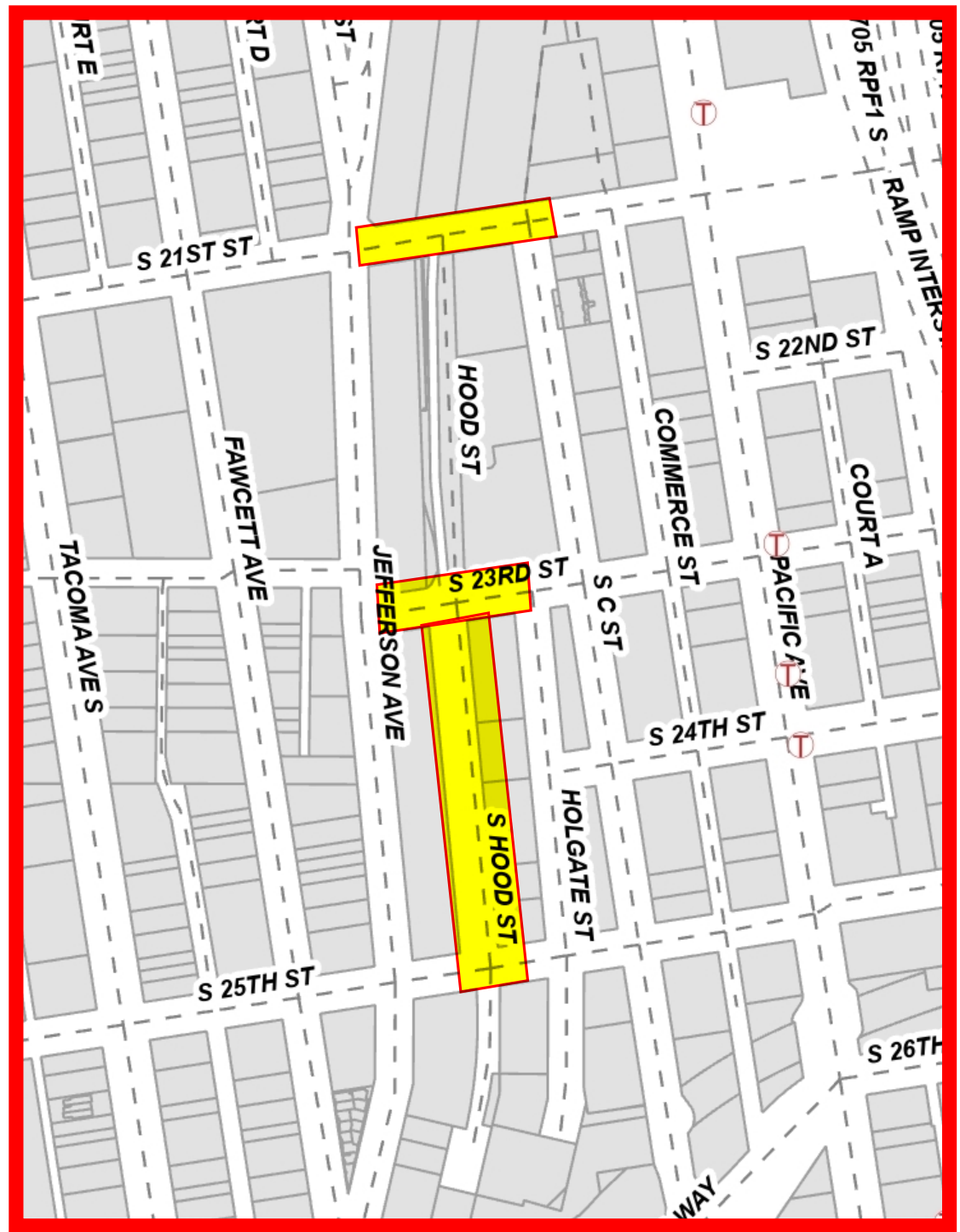
ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

IF THE ACTION REQUESTED IS APPROVAL OF A CONTRACT, INCLUDE LANGUAGE IN RESOLUTION AUTHORIZING \$200,000 INCREASE IN ADMINISTRATIVE AUTHORITY TO DIRECTOR? Yes.

ATTACHMENTS: Project Map
Contract and Award Letter
Secondary Agreement for Joint Project Public Works - Tacoma Water

CONTACT: Katie Lindberg, Associate Engineer, 253-325-1655
Ali Polda, Principal Engineer, 206-687-8602

LOCATION: 21ST ST., 23RD ST., AND S. HOOD ST.



- Legend
- Cathodic Protection
 - Test Station
 - Rectifier
 - Anode
 - Manways
 - Fence Gates
 - Super Fund Sites

1: 7,050





City of Tacoma

Resolution No.: _____

Meeting Date: _____

**Contract and Award Letter
Purchase Resolution —Exhibit "A"**

TO: Board of Contracts and Awards
FROM: Michael P. Slevin III, P.E., Director, Environmental Services
Jordan Ennis, P.E., Project Manager, Environmental Services
COPY: City Council, City Manager, City Clerk, EIC Coordinator, LEAP Coordinator, and
Dawn DeJarlais, Finance/Purchasing
SUBJECT: Prairie Line Trail Phase II Project – Rebid II
Request for Bids, Specification No. PW23-0060F, July 18, 2023 City Council
DATE: June 28, 2023

RECOMMENDATION SUMMARY:

The Public Works Department recommends a contract be awarded to Olsen Brothers Excavation Inc., Puyallup, WA, in the amount of \$560,895.00 plus a 15 percent contingency, for a projective contract amount of \$645,029.25 plus applicable taxes, budgeted from various funding sources, for the construction of the Prairie Line Trail Phase 2 Project.

STRATEGIC POLICY PRIORITY:

- Strengthen and support a safe city with healthy residents.
- Assure outstanding stewardship of the natural and built environment.
- Ensure all Tacoma residents are valued and have access to resources to meet their needs.
- Foster a vibrant and diverse economy with good jobs for all Tacoma residents.

BACKGROUND:

This project will replace stormwater, wastewater, and potable water mains as well as construct a shared use path that will connect into the existing section of the Prairie Line Trail from the Phase I project completed in 2017. Phase II of the Prairie Line Trail will occur in Tacoma's Brewery District between South 21st and South 25th Streets along the former BNSF rail line commonly referred to as Hood Street.

ISSUE: The underground stormwater, wastewater, and water mains within the project extent are reaching the end of their design life and are at risk of failure. An opportunity to partner with Public Works was utilized to provide a cost savings to the project.

ALTERNATIVES: One alternative is taking no action and accepting the risk of continued pipe failures, which could result in untreated wastewater overflowing in the Puget Sound, increased stormwater flooding, and impacts to the supply of drinking water.

COMPETITIVE SOLICITATION:

Request for Bids Specification No. PW23-0060F was opened May 23rd, 2023. No companies were invited to bid in addition to normal advertising of the project. Three submittals were received.

Olsen Brothers Excavation Inc. submitted a bid that resulted in the lowest evaluated submittal after consideration of Disadvantaged Business Enterprise (DBE) participation goals. The apparent low Reed Trucking, Inc was deemed non-responsive due to failing to meet the DBE Goal requirements. The table below reflects the amount of the base award.



<u>Respondent</u>	<u>Location</u> <i>(city and state)</i>	<u>Submittal</u> <u>Amount</u>
Olson Brothers Excavating Inc	Puyallup, WA	\$7,118,789.71
Reed Trucking Inc *	Puyallup, WA	\$6,456,881.33
Active Construction Inc*	Tacoma, WA	\$8,000,873.69

*Both firms were determined non-responsive for not meet the DBE Goal requirements and for submitting the incorrect Bid Proposal.

Pre-bid Estimate: \$7,400,000

The recommended award is approximately 4 percent below the pre-bid estimate.

CONTRACT HISTORY: New contract.

SUSTAINABILITY: Replacement of these pipes will reduce the risk of failure, thereby reducing the potential for discharge of untreated wastewater in the Puget Sound, reducing stormwater flooding, and maintaining potable water supply to the neighborhood.

EQUITY IN CONTRACTING (EIC) COMPLIANCE: Not Applicable.

DISADVANTAGED BUSINESS ENTERPRISE (DBE): The recommended contract is in compliance with 49 Code of Federal Regulations Part 26, per memorandum dated June 7, 2023. The DBE goal for this project is 18 percent and the DBE participation is 19.47 percent. The designated training hours for this project are 800 hours.

**FISCAL IMPACT:****EXPENDITURES:**

FUND NUMBER & FUND NAME	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
1060-CAPTL Transportation Capital Fund	PWK-G0014-05-01	5330100	\$6,415,413.58
4600 Tacoma Water Capital Reserve Fund	WTR-00641-05-01	5330100	\$725,599.11
4300 ES Wastewater Utility Fund	ENV-04024-11-04	5330100	\$381,677.53
4301 Surface Water Utility Fund	ENV-03033-03-04	5330100	\$43,478.34
TOTAL			Up to \$7,566,168.56

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4600 Tacoma Water Capital Reserve Fund	587501	6311170	\$725,599.11
ES Wastewater Utility Fund 4300	524700	6310010	\$381,677.53
ES Surface Water Utility Fund 4301	529700	6310010	\$43,478.34
WSDOT – FHWA STP Grant	PWK-G0014-FS-AD-04	4333240	\$5,622,500.00
Street Initiative Revenue	PWK-G0014-FS-AD-02	6311108	\$492,913.58
1065 ENGR General Fund	PWK-G0014-FS-AD-02	6311100	\$300,000
TOTAL			Up to \$ 7,566,168.56

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$7,566,168.56, plus applicable taxes.

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

IF EXPENSE IS NOT BUDGETED, PLEASE EXPLAIN HOW THEY ARE TO BE COVERED. N/A



TO: Jack Niehuser, P.E., Division Manager, Public Works Engineering Division
Terry Forslund, P.E., Assistant Division Manager, Planning & Engineering, Tacoma Water

FROM: Darius Thompson, Project Manager, Public Works Division
Katie Lindberg, Associate Engineer, Planning & Engineering, Tacoma Water

SUBJECT: Secondary Agreement for Joint Project PW-TW for Prairie Line Trail Phase II PW23-0060F/ MRP 2021-0068

DATE: July 27, 2023

Tacoma Public Works, Engineering Division and Tacoma Water, Planning & Engineering Division are collaborating to add water related infrastructure to the Prairie Line Trail Phase II Project.

The following summarizes the construction cost allocations for the project and other commitments.

1. The project is located along S. 21st St. between Jefferson Ave. and S. Holgate St, S. 23rd St. between Jefferson Ave. and S. Holgate St., S. 25th St. between Hood St. and S. C St., and Hood St. between S. 21st St. and S. 25th St.

Water infrastructure improvements include installing new 12-inch, 8-inch, and 6-inch water main and associated appurtenances along S. Hood St., between S. 25th St. and S. 23rd St., S. 23rd St., between Jefferson Ave. and Holgate St., and S. 21st St., between Jefferson Ave. and S. C St.

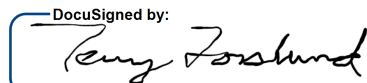
2. The project has been combined into a single construction contract administered by Public Works. Public Works has the responsibility to lead and coordinate the compilation of contract plans & specifications and advertise & award the construction contract. The project was advertised, and bids opened on 05/23/2023, Olsen Brothers Excavation Inc. is the low bidder.
3. Tacoma Water will be responsible for the cost of water distribution main work, valves, hydrants, trench excavation, trench backfill and compaction to subgrade elevation, mobilization, traffic control, and other appurtenant items directly related to the installation of new water main. Costs for these items are in "Schedule C" of the contract bid proposal. The estimated cost of "Schedule C", including force account is \$560,895, plus taxes.
4. Tacoma Water will be responsible for 2.4% of the project's LRI Disposal Fees which is based on the WDA 2700 and WDA 2701 soil tonnages of the project and the total contaminated soil quantities of the Bid Proposal.
5. Tacoma Water will be responsible for selected Roadway and Trail Improvement bid items in Schedule A and selected Common Lump Sum bid items in Schedule D, as noted in the Project Breakdown Estimate worksheet (see exhibit A). Tacoma Water's portion of the shared cost items in Schedule D is based on the proportion of costs in Schedule C relative to the total project costs, based on the contractors bid pricing. The proportional amount of costs to be shared by Water is 3% of items D3 through D10. Tacoma Water will contribute with the costs of intersection improvements at South C St. and South 21st St. and will also contribute to replacing concrete panels on South 23rd St. and Hood St. by paying for Bid items A18 through A22, A27, A35, A77, A82, and A85. The total shared cost of Tacoma Water's responsibility from Schedule A of the Roadway and Trail items and Schedule D of the Lump Sum bid items is \$73,541.48. The quantities on the Project Breakdown Estimate worksheet are contractor bid prices, the



Departmental actual bid quantities and costs will be separated by the same percentage as the per bid item estimate reflected on the Project Breakdown Estimate worksheet.

6. The Department of Public Works will administer the construction contract and provide construction management (contract administration and construction inspection assistance). Tacoma Water will pay the Public Works Department contract administration fees associated with Tacoma Water's scope of work. Tacoma Water will compensate the Public Works Department in the amount of 3% of the combined costs noted in paragraphs 3 and 5 above less Schedule's C force account of \$60,000 $(\$630,955.75 - \$60,000) \times .03$. The estimated cost for the Tacoma Water portion of contract administration is \$17,128.67. This amount will be adjusted based on actual construction costs and transferred to the Department of Public Works via journal entry at the completion of the project. This method is consistent with how construction management and overhead costs were addressed on previous projects.
7. Tacoma Water will be responsible for the daily inspection, surveying, and project redline drawings of the water main construction. Use of Force Account items in Schedule C will be as agreed to by Tacoma Water. Tacoma Water, Public Works and Environmental Services inspections will be a cooperative and coordinated effort.
8. Tacoma Water has provided the following WBSE for charging these construction costs:
 - o WTR-00641-05-03 Construction Payments
9. Project participation is subject to Public Utility Board Approval. Presentations to the Public Utility Board are anticipated in August 2023.

We look forward to continuing our spirit of coordination and cooperation to accomplish this and future projects of mutual benefit to the citizens of Tacoma, the Department of Public Works, and Tacoma Water. Tacoma Water's water-related project construction costs is \$630,955.75 plus a contract administration cost of \$17,128.67 for a cumulative total of \$648,084.42 plus applicable taxes and contingencies. Payment by Tacoma Water will be made for the actual quantities and costs incurred during project closeout. By signature, please indicate your approval to proceed with this joint project.

DocuSigned by:


2246E938E9314B6
Terry Forslund, P.E., PMP
Planning & Engineering Assistant Division Manager
Tacoma Water

08/02/2023

Date

DocuSigned by:


67F1241B5F694A0
Jack Nienhuser, P.E.
Division Manager
Public Works

07/27/2023

Date

Attachment: Exhibit-A Project Breakdown Estimate

Cc: Geff Yotter, Construction Inspector Manager, Planning & Engineering, Tacoma Water
Phill Ringrose, Construction Manager, Planning & Engineering, Tacoma Water
Andrew Zaremba, Water Budget and Financial Analysis, Tacoma Water

MRP 2021-0068

Exhibit A

Project Breakdown Estimate

Description: Prairie Line Trail Phase II Project
Specification No.: PW23-0060F
Bid Opening: 5/23/2023

					ENGINEER'S ESTIMATE			Lowest Responsible Bidder Olsen Bros			Water Department Responsibility		
Item	Description	Unit	Non-Taxable QTY	Taxable QTY	Unit Price	Non-Taxable Amount	Taxable Amount	Unit Price	Non-Taxable Amount	Taxable Amount	QTY	(%)	Amount
Schedule A: Roadway and Trail Improvements Bid Items A1 through A124													
A1	ADA Features Surveying	LS	22%	78%	\$6,560.00	\$1,443.20	\$5,116.80	\$3,600.00	\$792.00	\$2,808.00			
A2	Clearing and Grubbing	LS	0.00	1.00	\$30,990.00	\$0.00	\$30,990.00	\$47,000.00	\$0.00	\$47,000.00			
A3	Removal of Structures and Obstructions	LS	0.22	78%	\$25,500.00	\$5,610.00	\$19,890.00	\$75,000.00	\$16,500.00	\$58,500.00			
A4	Removal of Rails and Ties	LF	79.00	1996.00	\$173.00	\$13,667.00	\$345,308.00	\$15.00	\$1,185.00	\$29,940.00			
A5	Removal of Chain Link Fence	LF	0.00	710.00	\$7.00	\$0.00	\$4,970.00	\$11.00	\$0.00	\$7,810.00			
A6	Test Hole	LS	0.22	78%	\$52,500.00	\$11,550.00	\$40,950.00	\$24,500.00	\$5,390.00	\$19,110.00			
A7	Removal of Abandoned Cast Iron Pipe	LF	380.00	0.00	\$75.00	\$28,500.00	\$0.00	\$31.50	\$11,970.00	\$0.00			
A8	Roadway Excavation of Contaminated Material Incl. Haul	CY	1,020.00	2370.00	\$70.00	\$71,400.00	\$165,900.00	\$69.00	\$70,380.00	\$163,530.00			
A9	Unsuitable Foundation Excavation Incl. Haul - Contaminated	CY	110.00	270.00	\$70.00	\$7,700.00	\$18,900.00	\$94.00	\$10,340.00	\$25,380.00			
A10	Gravel Borrow Incl. Haul	TN	10.00	1330.00	\$32.00	\$320.00	\$42,560.00	\$53.20	\$532.00	\$70,756.00			
A11	Subgrade Maintenance & Protection	LS	0.22	78%	\$25,500.00	\$5,610.00	\$19,890.00	\$22,500.00	\$4,950.00	\$17,550.00			
A12	Structure Excavation Class B, Incl. Haul - Contaminated	CY	150.00	580.00	\$80.00	\$12,000.00	\$46,400.00	\$86.75	\$13,012.50	\$50,315.00			
A13	Structure Excavation Class A, Incl. Haul - Contaminated	CY	0.00	520.00	\$80.00	\$0.00	\$41,600.00	\$95.00	\$0.00	\$49,400.00			
A14	Shoring or Extra Excavation Class B	SF	880.00	4420.00	\$1.50	\$1,320.00	\$6,630.00	\$3.00	\$2,640.00	\$13,260.00			
A15	Shoring or Extra Excavation Class A	LS	0.00	1.00	\$6,400.00	\$0.00	\$6,400.00	\$27,500.00	\$0.00	\$27,500.00			
A16	Gravel Backfill for Walls	CY	120.00	580.00	\$50.00	\$6,000.00	\$29,000.00	\$75.00	\$9,000.00	\$43,500.00			
A17	Construction Geotextile for Separation	SY	0.00	2260.00	\$6.00	\$0.00	\$13,560.00	\$4.00	\$0.00	\$9,040.00			
A18	Remove Existing Pavement, Type 1, Class A4	SY	803.00	3790.00	\$11.00	\$8,833.00	\$41,690.00	\$24.25	\$19,472.75	\$91,907.50			
A19	Remove Existing Pavement, Type 1, Class A8	SY	1,290.00	0.00	\$12.00	\$15,480.00	\$0.00	\$41.50	\$53,535.00	\$0.00	\$76.00		\$3,154.00
A20	Remove Existing Pavement, Type 1, Class C6	SY	304.00	0.00	\$20.00	\$6,080.00	\$0.00	\$60.00	\$18,240.00	\$0.00	\$5.00		\$300.00
A21	Remove Existing Pavement, Type 1, Class C12	SY	1,217.00	39.00	\$28.00	\$34,076.00	\$1,092.00	\$73.50	\$89,449.50	\$2,866.50	\$74.00		\$5,439.00
A22	Remove Curb	LF	317.00	0.00	\$10.00	\$3,170.00	\$0.00	\$18.75	\$5,943.75	\$0.00	\$53.00		\$993.75
A23	Remove Catch Basin	EA	1.00	4.00	\$1,000.00	\$1,000.00	\$4,000.00	\$640.00	\$640.00	\$2,560.00			
A24	Site Health and Safety Plan	LS	0.22	78%	\$5,000.00	\$1,100.00	\$3,900.00	\$3,850.00	\$847.00	\$3,003.00			
A25	Site Health and Safety Officer	LS	0.22	78%	\$51,000.00	\$11,220.00	\$39,780.00	\$2,135.00	\$469.70	\$1,665.30			
A26	Contaminated Material Management Plan	LS	0.22	78%	\$5,000.00	\$1,100.00	\$3,900.00	\$3,300.00	\$726.00	\$2,574.00			
A27	Crushed Surfacing Top Course	TN	430.00	980.00	\$35.00	\$15,050.00	\$34,300.00	\$57.75	\$24,832.50	\$56,595.00	\$18.00		\$1,039.50
A28	Crushed Surfacing Base Course	TN	0.00	1530.00	\$35.00	\$0.00	\$53,550.00	\$66.35	\$0.00	\$101,515.50			
A29	3/8 In. Minus Aggregate Surfacing	CY	0.00	30.00	\$96.00	\$0.00	\$2,880.00	\$182.00	\$0.00	\$5,460.00			
A30	Steel Edging	LF	0.00	22.00	\$25.00	\$0.00	\$550.00	\$41.00	\$0.00	\$902.00			
A31	Temporary Pavement Patch	TN	110.00	0.00	\$220.00	\$24,200.00	\$0.00	\$282.50	\$31,075.00	\$0.00			
A32	HMA Cl. 1/2" PG 58H-22	TN	70.00	1340.00	\$140.00	\$9,800.00	\$187,600.00	\$156.25	\$10,937.50	\$209,375.00			
A33	Cement Conc. Pavement, 4-Inch. Section	SY	85.00	0.00	\$80.00	\$6,800.00	\$0.00	\$80.00	\$6,800.00	\$0.00			
A34	Cement Conc. Pavement, 6-Inch. Section	SY	0.00	88.00	\$100.00	\$0.00	\$8,800.00	\$100.00	\$0.00	\$8,800.00			
A35	Cement Conc. Pavement, 10-Inch Section	SY	2,588.00	0.00	\$175.00	\$452,900.00	\$0.00	\$180.00	\$465,840.00	\$0.00	\$126.00		\$22,680.00
A36	Colored Cement Conc. Pavement, 6-Inch Section	SY	0.00	426.00	\$125.00	\$0.00	\$53,250.00	\$108.00	\$0.00	\$46,008.00			
A37	Colored Cement Conc. Pavement for Shadow Element, 6-Inch Section	SY	0.00	11.00	\$125.00	\$0.00	\$1,375.00	\$143.00	\$0.00	\$1,573.00			
A38	Colored Cement Conc. Pavement, 10-Inch Section	SY	59.00	0.00	\$205.00	\$12,095.00	\$0.00	\$236.00	\$13,924.00	\$0.00			
A39	Epoxy-Coated Tie Bar with Drill Hole	EA	14.00	0.00	\$60.00	\$840.00	\$0.00	\$33.00	\$462.00	\$0.00			
A40	Handrail	LS	1.00	0.00	\$6,600.00	\$6,600.00	\$0.00	\$47,400.00	\$47,400.00	\$0.00			
A41	Conc. Class 4000 for Retaining Wall	CY	0.00	80.00	\$450.00	\$0.00	\$36,000.00	\$1,100.00	\$0.00	\$88,000.00			
A42	St. Reinf. Bar for Retaining Wall	LB	0.00	3460.00	\$3.00	\$0.00	\$10,380.00	\$16.00	\$0.00	\$55,360.00			
A43	Shaft - 24 Inch Diameter	LF	0.00	660.00	\$180.00	\$0.00	\$118,800.00	\$55.00	\$0.00	\$36,300.00			
A44	Shaft - 30 Inch Diameter	LF	0.00	962.00	\$192.00	\$0.00	\$184,704.00	\$82.50	\$0.00	\$79,365.00			
A45	Furnishing Soldier Pile - W12x26	LF	0.00	1041.00	\$180.00	\$0.00	\$187,380.00	\$145.25	\$0.00	\$151,205.25			
A46	Furnishing Soldier Pile - W18x35	LF	0.00	228.00	\$210.00	\$0.00	\$47,880.00	\$165.00	\$0.00	\$37,620.00			
A47	Furnishing Soldier Pile - W21x44	LF	0.00	850.00	\$210.00	\$0.00	\$178,500.00	\$231.00	\$0.00	\$196,350.00			
A48	Lagging	SF	0.00	3693.00	\$18.00	\$0.00	\$66,474.00	\$11.00	\$0.00	\$40,623.00			
A49	Contaminated Soil Disposal for Shaft, Incl. Haul	CY	0.00	252.00	\$80.00	\$0.00	\$20,160.00	\$114.50	\$0.00	\$28,854.00			
A50	Gravel Backfill for Drain	CY	0.00	2.00	\$40.00	\$0.00	\$80.00	\$332.25	\$0.00	\$664.50			
A51	Catch Basin Type 1	EA	0.00	10.00	\$1,800.00	\$0.00	\$18,000.00	\$1,563.00	\$0.00	\$15,630.00			
A52	Catch Basin Type 40	EA	0.00	2.00	\$1,600.00	\$0.00	\$3,200.00	\$1,511.00	\$0.00	\$3,022.00			
A53	Catch Basin Type 2 48 In. Diam.	EA	1.00	0.00	\$4,000.00	\$4,000.00	\$0.00	\$3,130.00	\$3,130.00	\$0.00			
A54	Manhole 48 In. Diam. Type 1	EA	0.00	1.00	\$6,000.00	\$0.00	\$6,000.00	\$4,000.00	\$0.00	\$4,000.00			
A55	Connect New Sewer Pipe 12-In. Diam. to Existing Structure	EA	3.00	0.00	\$1,380.00	\$4,140.00	\$0.00	\$3,470.00	\$10,410.00	\$0.00			
A56	Adjust Existing Catch Basin, Furnish New Frame and Grate	EA	6.00	0.00	\$750.00	\$4,500.00	\$0.00	\$1,540.00	\$9,240.00	\$0.00			

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Exhibit A

Project Breakdown Estimate

Description: **Prairie Line Trail Phase II Project**
Specification No.: **PW23-0060F**
Bid Opening: **5/23/2023**

					ENGINEER'S ESTIMATE			Lowest Responsible Bidder Olsen Bros			Water Department Responsibility		
Item	Description	Unit	Non-Taxable QTY	Taxable QTY	Unit Price	Non-Taxable Amount	Taxable Amount	Unit Price	Non-Taxable Amount	Taxable Amount	QTY	(%)	Amount
A57	Adjust Existing Manhole, Furnish New Frame and Cover	EA	6.00	0.00	\$1,000.00	\$6,000.00	\$0.00	\$1,540.00	\$9,240.00	\$0.00			
A58	Temporary Storm Sewer Bypass	LS	1.00	0.00	\$8,625.00	\$8,625.00	\$0.00	\$36,300.00	\$36,300.00	\$0.00			
A59	Temporary Storm Sewer Bypass Plan	LS	1.00	0.00	\$500.00	\$500.00	\$0.00	\$2,250.00	\$2,250.00	\$0.00			
A60	PVC Storm Sewer Pipe 6-In. Diam.	LF	0.00	102.00	\$55.00	\$0.00	\$5,610.00	\$44.00	\$0.00	\$4,488.00			
A61	PVC Storm Sewer Pipe 12-In. Diam.	LF	125.00	1231.00	\$70.00	\$8,750.00	\$86,170.00	\$46.25	\$5,781.25	\$56,933.75			
A62	DI CL52 Storm Sewer Pipe 6-In. Diam.	LF	0.00	29.00	\$60.00	\$0.00	\$1,740.00	\$93.00	\$0.00	\$2,697.00			
A63	Testing Sewer Pipe	LF	125.00	1362.00	\$3.00	\$375.00	\$4,086.00	\$7.00	\$875.00	\$9,534.00			
A64	Inlet Protection	EA	9.00	15.00	\$81.00	\$729.00	\$1,215.00	\$134.00	\$1,206.00	\$2,010.00			
A65	ESC Lead	DAY	10.00	30.00	\$150.00	\$1,500.00	\$4,500.00	\$134.00	\$1,340.00	\$4,020.00			
A66	Bark or Wood Chip Mulch	CY	10.00	110.00	\$38.00	\$380.00	\$4,180.00	\$100.00	\$1,000.00	\$11,000.00			
A67	Soil Amendment	CY	2.00	23.00	\$50.00	\$100.00	\$1,150.00	\$92.00	\$184.00	\$2,116.00			
A68	Plant Selection Arbutus X 'Marina' / Marina Strawberry Tree	EA	0.00	9.00	\$575.00	\$0.00	\$5,175.00	\$1,036.00	\$0.00	\$9,324.00			
A69	Plant Selection Cornus Florida 'Eddies White Wonder' / Flowering Dogwood	EA	0.00	18.00	\$575.00	\$0.00	\$10,350.00	\$920.00	\$0.00	\$16,560.00			
A70	Plant Selection Lagerstroemia Indica / Crape Myrtle	EA	0.00	11.00	\$575.00	\$0.00	\$6,325.00	\$1,200.00	\$0.00	\$13,200.00			
A71	Plant Selection Metasequoia Glyptostrobides 'Gold Rush' / Dawn Redwood, 14'-16' Ht.	EA	0.00	1.00	\$1,200.00	\$0.00	\$1,200.00	\$1,490.00	\$0.00	\$1,490.00			
A72	Plant Selection Nyssia Sylvatica 'Black Tupelo' / Sour Gum, 3" Cal.	EA	0.00	21.00	\$575.00	\$0.00	\$12,075.00	\$1,200.00	\$0.00	\$25,200.00			
A73	Plant Selection Calamagrostis X Acutiflora 'Karl Foerster' / Feather Reed Grass, 3 Gal.	EA	0.00	20.00	\$100.00	\$0.00	\$2,000.00	\$67.50	\$0.00	\$1,350.00			
A74	Plant Selection Cornus Sericea 'Kelseyi' / Kelseyi Dogwood, 2 Gal.	EA	0.00	8.00	\$80.00	\$0.00	\$640.00	\$63.50	\$0.00	\$508.00			
A75	Root Barrier, Typ. 18" Depth	LF	0.00	635.00	\$24.00	\$0.00	\$15,240.00	\$13.50	\$0.00	\$8,572.50			
A76	Cement Conc. Traffic Curb	LF	0.00	95.00	\$40.00	\$0.00	\$3,800.00	\$33.00	\$0.00	\$3,135.00			
A77	Cement Conc. Traffic Curb & Gutter	LF	736.00	1549.00	\$40.00	\$29,440.00	\$61,960.00	\$22.00	\$16,192.00	\$34,078.00	\$53.00		\$1,166.00
A78	Dual-Faced Cement Conc. Traffic Curb and Gutter	LF	79.00	0.00	\$56.00	\$4,424.00	\$0.00	\$66.00	\$5,214.00	\$0.00			
A79	Cement Conc. Rolled Curb	LF	0.00	104.00	\$45.00	\$0.00	\$4,680.00	\$31.00	\$0.00	\$3,224.00			
A80	Mortar Set Unit Pavers	SY	0.00	96.00	\$200.00	\$0.00	\$19,200.00	\$1,490.00	\$0.00	\$143,040.00			
A81	Cement Concrete Paver Base, 1.5-Inch Section	SY	0.00	96.00	\$40.00	\$0.00	\$3,840.00	\$75.00	\$0.00	\$7,200.00			
A82	Cement Conc. Driveway Entrance Type 1	SY	284.00	0.00	\$110.00	\$31,240.00	\$0.00	\$86.00	\$24,424.00	\$0.00	\$5.00		\$430.00
A83	Chain Link Fence, 6-Ft.	LF	0.00	332.00	\$100.00	\$0.00	\$33,200.00	\$59.00	\$0.00	\$19,588.00			
A84	Chain Link Fence, 8-Ft.	LF	0.00	696.00	\$120.00	\$0.00	\$83,520.00	\$102.00	\$0.00	\$70,992.00			
A85	Cement Conc. Sidewalk	SY	224.00	10.00	\$70.00	\$15,680.00	\$700.00	\$71.00	\$15,904.00	\$710.00	\$15.00		\$1,065.00
A86	Cement Conc. Curb Ramp Type Perpendicular A	EA	2.00	4.00	\$4,000.00	\$8,000.00	\$16,000.00	\$2,750.00	\$5,500.00	\$11,000.00			
A87	Cement Conc. Curb Ramp Parallel Type B	EA	0.00	1.00	\$3,220.00	\$0.00	\$3,220.00	\$3,300.00	\$0.00	\$3,300.00			
A88	Cement Conc. Curb Ramp Type Single Direction	EA	0.00	1.00	\$3,220.00	\$0.00	\$3,220.00	\$3,520.00	\$0.00	\$3,520.00			
A89	Detectable Warning Surface	SF	128.00	0.00	\$35.00	\$4,480.00	\$0.00	\$55.00	\$7,040.00	\$0.00			
A90	Streambed Cobbles	TN	0.00	117.00	\$58.00	\$0.00	\$6,786.00	\$134.00	\$0.00	\$15,678.00			
A91	Illumination System, Complete	LS	0.00	1.00	\$370,000.00	\$0.00	\$370,000.00	\$340,000.00	\$0.00	\$340,000.00			
A92	Permanent Signing	LS	0.22	78%	\$24,800.00	\$5,456.00	\$19,344.00	\$23,070.00	\$5,075.40	\$17,994.60			
A93	White Plastic Crosswalk Bar	SF	147.00	0.00	\$8.00	\$1,176.00	\$0.00	\$23.00	\$3,381.00	\$0.00			
A94	Plastic Stop Line	LF	38.00	0.00	\$10.00	\$380.00	\$0.00	\$38.50	\$1,463.00	\$0.00			
A95	Plastic Traffic Arrow	EA	2.00	1.00	\$165.00	\$330.00	\$165.00	\$1,100.00	\$2,200.00	\$1,100.00			
A96	Plastic Traffic Letter	EA	8.00	4.00	\$85.00	\$680.00	\$340.00	\$825.00	\$6,600.00	\$3,300.00			
A97	ADA Access Parking Symbol	EA	0.00	3.00	\$400.00	\$0.00	\$1,200.00	\$550.00	\$0.00	\$1,650.00			
A98	Plastic Yield Line Symbol	EA	0.00	24.00	\$60.00	\$0.00	\$1,440.00	\$165.00	\$0.00	\$3,960.00			
A99	Yellow Plastic Line, 4-In.	LF	732.00	261.00	\$3.00	\$2,196.00	\$783.00	\$9.00	\$6,588.00	\$2,349.00			
A100	White Plastic Line, 4-In.	LF	490.00	1016.00	\$3.00	\$1,470.00	\$3,048.00	\$9.00	\$4,410.00	\$9,144.00			
A101	Yellow Plastic Wide Line, 24-In.	LF	42.00	0.00	\$18.00	\$756.00	\$0.00	\$60.50	\$2,541.00	\$0.00			
A102	White Plastic Wide Line, 8-In.	LF	313.00	1353.00	\$8.00	\$2,504.00	\$10,824.00	\$11.00	\$3,443.00	\$14,883.00			
A103	White Plastic Wide Line, 12-In.	LF	38.00	174.00	\$4.00	\$152.00	\$696.00	\$33.00	\$1,254.00	\$5,742.00			
A104	White Plastic Wide Line, 16-In.	LF	0.00	119.00	\$4.00	\$0.00	\$476.00	\$11.00	\$0.00	\$1,309.00			
A105	Temporary Pavement Marking - Short Duration	LF	1,535.00	2630.00	\$2.00	\$3,070.00	\$5,260.00	\$2.75	\$4,221.25	\$7,232.50			
A106	Gravel Borrow for Gabion Backfill, Incl. Haul	TN	0.00	970.00	\$80.00	\$0.00	\$77,600.00	\$93.50	\$0.00	\$90,695.00			
A107	Streambed Boulder, 1-Man	EA	0.00	121.00	\$90.00	\$0.00	\$10,890.00	\$81.00	\$0.00	\$9,801.00			
A108	Streambed Boulder, 2-Man	EA	0.00	74.00	\$110.00	\$0.00	\$8,140.00	\$83.00	\$0.00	\$6,142.00			
A109	Streambed Boulder, 3-Man	EA	0.00	27.00	\$130.00	\$0.00	\$3,510.00	\$235.00	\$0.00	\$6,345.00			
A110	Streambed Boulder, 4-Man	EA	0.00	4.00	\$170.00	\$0.00	\$680.00	\$440.00	\$0.00	\$1,760.00			
A111	Gabion Cribbing Facing Stone	TN	0.00	90.00	\$480.00	\$0.00	\$43,200.00	\$171.00	\$0.00	\$15,390.00			
A112	Gabion Cribbing	CY	0.00	240.00	\$240.00	\$0.00	\$57,600.00	\$176.00	\$0.00	\$42,240.00			
A113	Bollard, Collapsible	EA	0.00	4.00	\$3,000.00	\$0.00	\$12,000.00	\$4,400.00	\$0.00	\$17,600.00			

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Exhibit A

Project Breakdown Estimate

Description: **Prairie Line Trail Phase II Project**
Specification No.: **PW23-0060F**
Bid Opening: **5/23/2023**

					ENGINEER'S ESTIMATE			Lowest Responsible Bidder Olsen Bros			Water Department Responsibility			
Item		Description	Unit	Non-Taxable QTY	Taxable QTY	Unit Price	Non-Taxable Amount	Taxable Amount	Unit Price	Non-Taxable Amount	Taxable Amount	QTY	(%)	Amount
A114	Bollard, Type 2		EA	0.00	6.00	\$2,000.00	\$0.00	\$12,000.00	\$2,000.00	\$0.00	\$12,000.00			
A115	Custom 8 Ft. Ipe Bench		EA	0.00	2.00	\$9,000.00	\$0.00	\$18,000.00	\$5,000.00	\$0.00	\$10,000.00			
A116	Custom 6 Ft. Ipe Bench		EA	0.00	1.00	\$7,200.00	\$0.00	\$7,200.00	\$3,520.00	\$0.00	\$3,520.00			
A117	Custom 6 Ft. by 6 Ft. Ipe Bench Planter		EA	0.00	2.00	\$24,000.00	\$0.00	\$48,000.00	\$4,000.00	\$0.00	\$8,000.00			
A118	Custom Steel Planter		EA	0.00	1.00	\$12,000.00	\$0.00	\$12,000.00	\$17,000.00	\$0.00	\$17,000.00			
A119	Gateway Element		EA	0.00	1.00	\$20,000.00	\$0.00	\$20,000.00	\$16,000.00	\$0.00	\$16,000.00			
A120	Trash Receptacle		EA	0.00	4.00	\$3,000.00	\$0.00	\$12,000.00	\$1,700.00	\$0.00	\$6,800.00			
A121	Bike Rack		EA	0.00	2.00	\$2,100.00	\$0.00	\$4,200.00	\$3,500.00	\$0.00	\$7,000.00			
A122	Rail Feature		LF	0.00	50.00	\$300.00	\$0.00	\$15,000.00	\$250.00	\$0.00	\$12,500.00			
A123	EGD Sign Base		EA	1.00	4.00	\$2,000.00	\$2,000.00	\$8,000.00	\$3,400.00	\$3,400.00	\$13,600.00			
A124	EGD Signage		LS	0.22	78%	\$130,000.00	\$28,600.00	\$101,400.00	\$15,000.00	\$3,300.00	\$11,700.00			
Subtotal, Schedule A Bid Items A1 through A124							\$ 957,097.20	\$ 3,439,067.80		\$ 1,140,393.10	\$3,108,422.90			\$36,267.25
	Sales Tax						10.3%	\$354,223.98		10.3%	\$320,167.56		0%	\$0.00
Schedule A Total (Non-Taxable Subtotal + Taxable Subtotal + Sales Tax)								\$4,750,388.98			\$4,568,983.56			\$36,267.25
Schedule B: Wastewater Sewer Improvements Bid Items B1 through B25														
B1	Structure Excavation Class B Incl. Haul - Contaminated		CY		1750.00	\$80.00		\$140,000.00	\$67.00		\$117,250.00			
B2	Shoring or Extra Excavation Class B		SF		11370.00	\$1.50		\$17,055.00	\$3.00		\$34,110.00			
B3	Gravel Backfill for Walls		CY		1460.00	\$50.00		\$73,000.00	\$47.00		\$68,620.00			
B4	Remove Existing Pavement, Type 1, Class A8		SY		469.00	\$12.00		\$5,628.00	\$45.00		\$21,105.00			
B5	HMA Cl. 1/2" PG 58H-22 for Pavement Patch		TN		110.00	\$140.00		\$15,400.00	\$220.00		\$24,200.00			
B6	Manhole 48-In. Diam. Type 1		EA		8.00	\$6,000.00		\$48,000.00	\$6,300.00		\$50,400.00			
B7	Connect New Sewer Pipe 10- In. Diam. to Existing Structure		EA		1.00	\$1,440.00		\$1,440.00	\$1,500.00		\$1,500.00			
B8	Connect New Sewer Pipe 12- In. Diam. to Existing Structure		EA		1.00	\$1,440.00		\$1,440.00	\$1,800.00		\$1,800.00			
B9	Connect New Sewer Pipe 18- In. Diam. to Existing Structure		EA		1.00	\$1,440.00		\$1,440.00	\$1,800.00		\$1,800.00			
B10	Reconnect Existing Sewer Pipe 8- In. Diam. to New Structure		EA		5.00	\$1,200.00		\$6,000.00	\$1,200.00		\$6,000.00			
B11	Adjust Manhole		EA		2.00	\$750.00		\$1,500.00	\$2,500.00		\$5,000.00			
B12	Abandon Existing Manhole		EA		3.00	\$750.00		\$2,250.00	\$800.00		\$2,400.00			
B13	Plugging Existing Pipe		EA		12.00	\$250.00		\$3,000.00	\$350.00		\$4,200.00			
B14	CDF for Pipe Abandonment		CY		22.00	\$360.00		\$7,920.00	\$450.00		\$9,900.00			
B15	Temporary Sanitary Sewer Bypass Plan		LS		1.00	\$500.00		\$500.00	\$3,300.00		\$3,300.00			
B16	Temporary Sanitary Sewer Bypass		LS		1.00	\$8,625.00		\$8,625.00	\$40,000.00		\$40,000.00			
B17	PVC Sanitary Sewer Pipe 6-In. Diam.		LF		4.00	\$60.00		\$240.00	\$260.00		\$1,040.00			
B18	PVC Sanitary Sewer Pipe 8-In. Diam.		LF		52.00	\$70.00		\$3,640.00	\$145.00		\$7,540.00			
B19	PVC Sanitary Sewer Pipe 10-In. Diam.		LF		855.00	\$81.00		\$69,255.00	\$110.00		\$94,050.00			
B20	PVC Sanitary Sewer Pipe 12-In. Diam.		LF		107.00	\$92.00		\$9,844.00	\$133.00		\$14,231.00			
B21	PVC Sanitary Sewer Pipe 15-In. Diam.		LF		228.00	\$116.00		\$26,448.00	\$171.00		\$38,988.00			
B22	PVC Sanitary Sewer Pipe 18-In. Diam.		LF		181.00	\$145.00		\$26,245.00	\$200.00		\$36,200.00			
B23	Testing Sewer Pipe		LF		1427.00	\$3.00		\$4,281.00	\$8.00		\$11,416.00			
B24	Sewer Cleanout		EA		1.00	\$700.00		\$700.00	\$850.00		\$850.00			
B25	ESC Lead		DAY		4.00	\$150.00		\$600.00	\$54.00		\$216.00			
Subtotal, Schedule B Bid Items B1 through B25								\$474,451.00			\$596,116.00			
	Sales Tax						10.3%	\$48,868.45		10.3%	\$61,399.95			
Schedule B Total (Subtotal + Sales Tax)								\$523,319.45			\$657,515.95			
Schedule C: Water Main Improvements Bid Items WA-1 through WA-42														
WA-1	Erosion and Sediment Control Specialist		LS		1.00	\$1,080.00		\$1,080.00	\$3,000.00		\$3,000.00		100%	\$3,000.00
WA-2	Removal/Disposal of existing asphalt, concrete sidewalk/curbing & concrete pavement. Includes all thicknesses and combinations		SY		460.00	\$23.00		\$10,580.00	\$32.00		\$14,720.00		100%	\$14,720.00
WA-3	Temporary HMA Class ½" PG58-22, 2-inch minimum depth, installed & removed		SY		483.00	\$15.00		\$7,245.00	\$47.00		\$22,701.00		100%	\$22,701.00
WA-4	HMA Cl ½" PG58-22 pavement for permanent trench patch- 6" in Depth		TN		275.00	\$140.00		\$38,500.00	\$270.00		\$74,250.00		100%	\$74,250.00
WA-5	Cement Concrete Sidewalk		SY		53.00	\$70.00		\$3,710.00	\$80.00		\$4,240.00		100%	\$4,240.00
WA-6	Crushed Surfacing Top Course for trench backfill per Section 9-03.9(3) of the 2020 WSDOT Standard Specifications		TN		1448.00	\$35.00		\$50,680.00	\$31.00		\$44,888.00		100%	\$44,888.00
WA-7	Storm, Sanitary, and Side Sewer Restoration		EA		9.00	\$1,000.00		\$9,000.00	\$1,580.00		\$14,220.00		100%	\$14,220.00
WA-8	Trench Excavation of Contaminated Material, Incl. Haul		CY		996.00	\$80.00		\$79,680.00	\$54.00		\$53,784.00		100%	\$53,784.00

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Exhibit A

Project Breakdown Estimate

Description: Prairie Line Trail Phase II Project
Specification No.: PW23-0060F
Bid Opening: 5/23/2023

					ENGINEER'S ESTIMATE			Lowest Responsible Bidder Olsen Bros			Water Department Responsibility			
Item		Description	Unit	Non-Taxable QTY	Taxable QTY	Unit Price	Non-Taxable Amount	Taxable Amount	Unit Price	Non-Taxable Amount	Taxable Amount	QTY	(%)	Amount
WA-9	Trench Shoring		LF		1400.00	\$5.00		\$7,000.00	\$3.00		\$4,200.00		100%	\$4,200.00
WA-10	Trench Dam, installed		EA		4.00	\$500.00		\$2,000.00	\$1,900.00		\$7,600.00		100%	\$7,600.00
WA-11	12-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furnish, lay and test		LF		1398.00	\$115.00		\$160,770.00	\$97.00		\$135,606.00		100%	\$135,606.00
WA-12	8-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furnish, lay and test		LF		94.00	\$95.00		\$8,930.00	\$89.00		\$8,366.00		100%	\$8,366.00
WA-13	6-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furnish, lay and test		LF		15.00	\$75.00		\$1,125.00	\$88.00		\$1,320.00		100%	\$1,320.00
WA-14	12-inch Ductile Iron Tee, M.J., installed		EA		1.00	\$1,500.00		\$1,500.00	\$800.00		\$800.00		100%	\$800.00
WA-15	12-inch x 8-inch Ductile Iron Tee, M.J., installed		EA		1.00	\$1,500.00		\$1,500.00	\$600.00		\$600.00		100%	\$600.00
WA-16	12-inch x 6-inch Ductile Iron Tee, M.J., installed		EA		1.00	\$1,500.00		\$1,500.00	\$700.00		\$700.00		100%	\$700.00
WA-17	12-inch x 6-inch Ductile Iron Reducer, 2-B, M.J., w/ anchor, installed		EA		1.00	\$1,500.00		\$1,500.00	\$350.00		\$350.00		100%	\$350.00
WA-18	12-inch x 8-inch Ductile Iron Cross, 4-B, M.J., installed		EA		1.00	\$1,500.00		\$1,500.00	\$700.00		\$700.00		100%	\$700.00
WA-19	12-inch Ductile Iron Ell, M.J., 45°, installed		EA		12.00	\$500.00		\$6,000.00	\$500.00		\$6,000.00		100%	\$6,000.00
WA-20	12-inch Ductile Iron Ell, M.J., 22 1/2°, installed		EA		2.00	\$500.00		\$1,000.00	\$400.00		\$800.00		100%	\$800.00
WA-21	8-inch Ductile Iron Ell, M.J., 45°, installed		EA		2.00	\$500.00		\$1,000.00	\$200.00		\$400.00		100%	\$400.00
WA-22	12-inch Ductile Iron Solid Sleeve (Long Pattern) M.J., installed		EA		3.00	\$3,000.00		\$9,000.00	\$1,000.00		\$3,000.00		100%	\$3,000.00
WA-23	8-inch Ductile Iron Solid Sleeve (Long Pattern) M.J., installed		EA		2.00	\$3,000.00		\$6,000.00	\$800.00		\$1,600.00		100%	\$1,600.00
WA-24	6-inch Ductile Iron Solid Sleeve (Long Pattern) M.J., installed		EA		3.00	\$3,000.00		\$9,000.00	\$800.00		\$2,400.00		100%	\$2,400.00
WA-25	12-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, A.C. to D.I., installed		EA		1.00	\$800.00		\$800.00	\$800.00		\$800.00		100%	\$800.00
WA-26	12-inch Ductile Iron Cap, M.J., tapped 2", installed and removed		EA		5.00	\$600.00		\$3,000.00	\$500.00		\$2,500.00		100%	\$2,500.00
WA-27	8-inch Ductile Iron Cap, M.J., tapped 2", installed and removed		EA		1.00	\$500.00		\$500.00	\$450.00		\$450.00		100%	\$450.00
WA-28	8-inch Ductile Iron Plug, M.J., tapped 2" installed and removed		EA		1.00	\$500.00		\$500.00	\$450.00		\$450.00		100%	\$450.00
WA-29	6-In Ductile Iron Plug, M.J., tapped 2", installed and removed		EA		1.00	\$400.00		\$400.00	\$450.00		\$450.00		100%	\$450.00
WA-30	Temporary 2-In Blow-Off Assembly, installed and removed (Dwg. 17-56-1)		EA		8.00	\$500.00		\$4,000.00	\$900.00		\$7,200.00		100%	\$7,200.00
WA-31	12-inch Mechanical Joint Restraining Glands		EA		39.00	\$250.00		\$9,750.00	\$200.00		\$7,800.00		100%	\$7,800.00
WA-32	8-inch Mechanical Joint Restraining Glands		EA		17.00	\$200.00		\$3,400.00	\$150.00		\$2,550.00		100%	\$2,550.00
WA-33	6-inch Mechanical Joint Restraining Glands		EA		3.00	\$150.00		\$450.00	\$100.00		\$300.00		100%	\$300.00
WA-34	Concrete Thrust Anchor, installed		EA		21.00	\$400.00		\$8,400.00	\$750.00		\$15,750.00		100%	\$15,750.00
WA-35	Temporary Concrete Thrust Anchor, installed and removed		EA		7.00	\$500.00		\$3,500.00	\$1,000.00		\$7,000.00		100%	\$7,000.00
WA-36	Trench Compaction Test (as directed by the Inspector)		EA		28.00	\$250.00		\$7,000.00	\$200.00		\$5,600.00		100%	\$5,600.00
WA-37	Test Holes		LS		1.00	\$10,000.00		\$10,000.00	\$6,000.00		\$6,000.00		100%	\$6,000.00
WA-38	12-inch Butterfly valve, M.J., ANSI/AWWA, C504, with C.I. valve box		EA		4.00	\$2,000.00		\$8,000.00	\$6,000.00		\$24,000.00		100%	\$24,000.00
WA-39	8-inch Gate Valve, M.J., ANSI/AWWA, C509/515, with C.I. Valve Box		EA		2.00	\$1,500.00		\$3,000.00	\$2,200.00		\$4,400.00		100%	\$4,400.00
WA-40	6-inch Gate Valve, M.J., ANSI/AWWA, C509/515, with C.I. Valve Box		EA		1.00	\$1,000.00		\$1,000.00	\$1,700.00		\$1,700.00		100%	\$1,700.00
WA-41	Street cleaning with Self-propelled Pickup and Vacuum Street Sweeper Equipment		HR		22.00	\$120.00		\$2,640.00	\$350.00		\$7,700.00		100%	\$7,700.00
WA-42	Force Account		EST		1.00	\$60,000.00		\$60,000.00	\$60,000.00		\$60,000.00		100%	\$60,000.00
Subtotal, Schedule C Bid Items WA-1 through WA-42								\$546,140.00			\$560,895.00			\$560,895.00
Sales Tax							10.3%	\$56,252.42		10.3%	\$57,772.19		10.3%	\$57,772.19
Schedule C Total (Subtotal + Sales Tax)								\$602,392.42			\$618,667.19			\$618,667.19

Schedule D: Common Lump Sum Bid Items D1 through D10														
D1	Roadway Surveying*	LS	20%	80%	\$72,800.00	\$14,560.00	\$58,240.00	\$45,000.00	\$9,000.00	\$36,000.00		0%		
D2	Record Drawings*	LS	20%	80%	\$4,900.00	\$980.00	\$3,920.00	\$2,000.00	\$400.00	\$1,600.00		0%		
D3	SPCC Plan**	LS	17%	83%	\$5,400.00	\$918.00	\$4,482.00	\$3,000.00	\$510.00	\$2,490.00		3%		\$90.00
D4	Mobilization**	LS	17%	83%	\$532,700.00	\$90,559.00	\$442,141.00	\$475,000.00	\$80,750.00	\$394,250.00		3%		\$14,250.00
D5	Project Temporary Traffic Control**	LS	17%	83%	\$319,600.00	\$54,332.00	\$265,268.00	\$575,000.00	\$97,750.00	\$477,250.00		3%		\$17,250.00
D6	Pedestrian Traffic Control**	LS	17%	83%	\$53,300.00	\$9,061.00	\$44,239.00	\$16,500.00	\$2,805.00	\$13,695.00		3%		\$495.00
D7	Stormwater Pollution Prevention Plan (SWPPP)**	LS	17%	83%	\$5,400.00	\$918.00	\$4,482.00	\$4,000.00	\$680.00	\$3,320.00		3%		\$120.00
D8	Erosion / Water Pollution Control**	LS	17%	83%	\$213,100.00	\$36,227.00	\$176,873.00	\$44,000.00	\$7,480.00	\$36,520.00		3%		\$1,320.00
D9	Dewatering Plan**	LS	17%	83%	\$5,400.00	\$918.00	\$4,482.00	\$3,750.00	\$637.50	\$3,112.50		3%		\$112.50
D10	NPDES Construction Stormwater General Permit**	LS	17%	83%	\$10,700.00	\$1,819.00	\$8,881.00	\$5,200.00	\$884.00	\$4,316.00		3%		\$156.00
	Subtotal, Schedule D Bid Items D1 through D10					\$210,292.00	\$1,013,008.00		\$200,896.50	\$972,553.50				\$33,793.50
	Sales Tax						10.3%	\$104,339.82		10.3%	\$100,173.01		10.3%	\$3,480.73

MRP 2021-0068

Exhibit A

Project Breakdown Estimate

Description: Prairie Line Trail Phase II Project
Specification No.: PW23-0060F
Bid Opening: 5/23/2023

					ENGINEER'S ESTIMATE			Lowest Responsible Bidder Olsen Bros			Water Department Responsibility			
Item		Description	Unit	Non-Taxable QTY	Taxable QTY	Unit Price	Non-Taxable Amount	Taxable Amount	Unit Price	Non-Taxable Amount	Taxable Amount	QTY	(%)	Amount
	Schedule D Total (Non-Taxable Subtotal + Taxable Subtotal + Sales Tax)							\$1,327,639.82			\$1,273,623.01			\$37,274.23
	Schedule A: Roadway and Trail Improvements Bid Items TOTAL							\$4,750,388.98			\$4,568,983.56			\$36,267.25
	Schedule B: Wastewater Sewer Improvements Bid Items TOTAL							\$523,319.45			\$657,515.95			
	Schedule C: Water Main Improvements Bid Items TOTAL							\$602,392.42			\$618,667.19			\$618,667.19
	Schedule D: Common Lump Sum Bid Items TOTAL							\$1,327,639.82			\$1,273,623.01			\$37,274.23
	BASE BID TOTAL (SCHEDULE. A+B+C+D)							\$7,203,740.67			\$7,118,789.71			

Tacoma Water Estimated Cost Share Summary	
Item	Description
A	Water Bid Group C-Sub Total
B	Shared Costs (Without Tax)
C	Total Construction Costs (Without Tax)
	(A + B)
D	Total Construction Costs with 15% Contingency (C&A Document Water Total)
	(C x 1.15)
E	Admin Costs (3% excluding FA)
	(C - \$Force Account) x 3%
F	Cumulative Total (less tax, less contingency)
	(C + E)

Amount
\$560,895.00
\$70,060.75
\$630,955.75
\$725,599.11
\$ 17,128.67
\$648,084.42