



RESOLUTION NO. U-11272

1 A RESOLUTION related to Tacoma Water; authorizing participation in the City
2 of Tacoma, Department of Public Works, South 21st and Fawcett
3 Improvements Project.

4 WHEREAS the City of Tacoma, Tacoma Public Utilities, Water Division
5 ("Tacoma Water") is requesting authorization to participate in the City of
6 Tacoma, Department of Public Works ("Public Works") South 21st and Fawcett
7 Improvements Project ("Project"), and

8 WHEREAS, as part of this Project, Tacoma Water proposes to partner
9 with Public Works to reconstruct the existing roadway and replace
10 approximately 1,000 feet of existing water main constructed circa 1891, and
11 proposes to install approximately 1,800 feet of 6-inch to 24-inch water main
12 along Fawcett Avenue and 21st Street, and

13 WHEREAS the Project will minimize long-term road maintenance
14 obligations by improving the surface with concrete panels and asphaltic
15 sections, and will add new signals and a median refuge island to support
16 bicycle and pedestrian movement, upgrade underground utilities, install traffic
17 calming measures, and construct new illumination and sidewalks/ADA
18 improvements, and

19 WHEREAS the total Project cost is \$6,889,416.98, under a contract
20 managed by Public Works, and

21 WHEREAS Tacoma Water's contribution amount is \$912,152.09, plus a
22 fifteen percent contingency, for a cumulative total to Tacoma Water of
23 \$1,048,974.90, plus applicable taxes, as further described in the "Secondary
24
25
26



1 Agreement for Joint Project Tacoma Water - Public Works,” on file with the
 2 Clerk of the Board, and

3 WHEREAS Tacoma Water believes it is in the best interest of the utility
 4 and its customers to include the water main work in the Project, to improve
 5 project delivery, reduce project costs, improve system availability, and
 6 consolidate construction disturbance to businesses, and
 7

8 WHEREAS Tacoma Water requests authority to participate in the Public
 9 Works Project for the above purpose and reasons; Now, Therefore,

10 BE IT RESOLVED BY THE PUBLIC UTILITY BOARD OF THE CITY OF TACOMA:

11 That Tacoma Water is authorized to participate in the Public Works
 12 Project for the South 21st and Fawcett Improvements Project, to replace and
 13 install water main, with a total cost to Tacoma Water of \$912,152.09, plus a
 14 fifteen percent contingency, for a cumulative total for Tacoma Water of
 15 \$1,048,974.90, plus applicable taxes, and as further described in the
 16 “Secondary Agreement for Joint Project Tacoma Water - Public Works,” on file
 17 with the Clerk of the Board.
 18
 19

20 Approved as to form:

21 _____
 22 /s/
 23 Chief Deputy City Attorney

 Chair

 Secretary

23 _____
 24 Clerk

Adopted _____

25
 26



Board Action Memorandum

TO: Jackie Flowers, Director of Utilities *JF*
COPY: Charleen Jacobs, Director and Board Offices
FROM: Scott Dewhirst, Utilities Dir Dep Water Supt, Tacoma Water *SD*
Troy Saghafi, Professional Engineer, Tacoma Water *TS*
MEETING DATE: July 28th, 2021
DATE: July 12th, 2021

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, South 21st and Fawcett Improvements Project. Tacoma Water proposes to install approximately 1,800 feet of 6-inch to 24-inch water main along Fawcett Avenue and South 21st Street. Total project cost is \$912,152.09, plus a 15 percent contingency, for a cumulative total of \$1,048,974.90 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 availability, and consolidate construction disturbance to businesses.

BACKGROUND:

Tacoma Water is partnering with the Public Works Department to reconstruct the existing roadway and replace approximately 1,000 feet of existing water main, constructed circa 1891, along Fawcett Avenue, between South 21st Street and South 19th Street. Approximately 800 feet of new water main is proposed for installation along South 21st Street, between Jefferson and Tacoma Avenues, which is an area that is already served, but the installation will improve system reliability and provide service to future development within the downtown corridor.

The overall project will minimize long-term road maintenance by improving roadway surface with concrete panels and asphaltic sections, add new signals and median refuge island to support bicycle and pedestrian movement, upgrade underground utilities, install traffic calming measures, and construct new illumination and sidewalks/ADA improvements.



Board Action Memorandum

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

ISSUE: The existing water main in this area is over 100 years old, with sections near the end of its operational life. There is no water main along South 21st Street, water service in the future cannot be provided without significant costs at a later date.

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 by replacing the water main now. Installing a new water main along South 21st Street provides water distribution to adjacent properties.

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
City Manager Action Memorandum
Secondary Agreement for Joint Project Tacoma Water – Public Works

CONTACT: Troy Saghafi, Professional Engineer, 253-345-8445
Jessica Knickerbocker, Assistant Division Manager, 253-389-8044

Attachments



TO: Elizabeth A. Pauli, City Manager
FROM: Kurtis D. Kingsolver, P.E., Public Works Director/City Engineer
Michael P. Slevin III, P.E., Environmental Services Director
Darius Thompson, Engineering Project Manager, Public Works Engineering
COPY: City Manager, City Council, City Clerk, EIC Coordinator, LEAP Coordinator, and
Doreen Klaaskate, Finance/Purchasing
SUBJECT: South 21st and Fawcett Improvements
Request for Bids Specification No. PW21-0441F
DATE: July 14, 2021

Pursuant to the City of Tacoma March 12, 2020, state of emergency proclamation in response to COVID-19, made in accordance with Tacoma Municipal Code Chapter 1.10., contract awards for purchases must be approved by the City Manager or designee.

RECOMMENDATION SUMMARY:

The Public Works Department recommends a contract be awarded to Tucci & Sons Inc, Tacoma, WA, in the amount of \$5,990,836.50, plus a 15 percent contingency for a cumulative total of \$6,889,416.90, plus applicable taxes, budgeted from various departmental funds, for the improvements to Fawcett Avenue and South 21st Street, including utility improvements and the installation of a new HAWK signal.

STRATEGIC POLICY PRIORITY:

- Strengthen and support a safe city with healthy residents.
- Ensure all Tacoma residents are valued and have access to resources to meet their needs.

The proposed project will provide pedestrian and bicycle safety improvements

BACKGROUND:

The City's Transportation Master Plan (Transportation Element of the Comprehensive Plan) identifies Fawcett Avenue as a Bicycle Boulevard serving as a critical link in a 13-mile north-south bicycle corridor connecting the City to the downtown and important cross-connections. In 2017, the City was awarded a Pedestrian & Bicycle Safety grant to improve Fawcett Avenue between South 21st Street and South 19th Street. This project is adjacent to a 6.4 acre planned mixed-use development. This development will require offsite improvements to both Fawcett Avenue and South 21st Street. To achieve cost efficiencies, limit future rework, and minimize impacts to the traveling public the City worked in conjunction with the granting agency, the mixed-use Developer, the University of WA Tacoma and downtown businesses to combine the grant-funded work on Fawcett Avenue with both the Developer's required offsite improvements and City desired roadway and utility improvements in South 21st Street into a single \$4.6 million project.

ISSUE: The project will provide a new concrete roadway along South 21st Street between Jefferson and Tacoma Avenues, repave Fawcett Avenue between South 21st Street and South 19th Street and the intersections on South 21st Street at both Jefferson and Tacoma Avenues. The project will also construct a new HAWK signal and median refuge island at the South 21st Street and Fawcett Avenue intersection to support bicycle and pedestrian movement along the



City's Bicycle Boulevard, upgrade stormwater, wastewater, water and power utilities, install traffic calming measures along Fawcett Avenue, and construct new illumination and sidewalks/ADA improvements.

ALTERNATIVES: The alternative would be to continue temporary road repairs and return grant funds.

COMPETITIVE SOLICITATION:

Request for Bids Specification No. PW21-0441F was opened June 22, 2021. No companies were invited to bid in addition to normal advertising of the project. Three submittals were received.

Tucci & Sons Inc, submitted a bid that resulted in the lowest evaluated submittal after consideration of Equity in Contracting (EIC) participation goals. The table below reflects the amount of the base award.

<u>Respondent</u>	<u>Location</u> <i>(city and state)</i>	<u>Submittal Amount</u>
Tucci & Sons, Inc	Tacoma, WA	\$5,990,836.50
Titan Earthwork Inc	Puyallup, WA	\$6,240,757.50
Active Construction, Inc	Tacoma, WA	\$6,275,364.00

Pre-bid Estimate: \$5,344,180.00

The recommended award is 12 percent above the pre-bid estimate.

Based on the estimated working days, staff believes this project will result in 14,400 labor hours.

CONTRACT HISTORY: New contract

SUSTAINABILITY: The project will incorporate recycled components in the construction of the roadway; install low energy and low life cycle cost lighting; promote active transportation options; and employ a local, underutilized small business for a portion of the construction.

EIC/LEAP COMPLIANCE: The recommended contractor is in compliance with the EIC Regulation requirements per memorandum dated June 29, 2021. The EIC requirements for this project are Minority Business Enterprise (MBE):6 percent, Women's Business Enterprise (WBE):4 percent, and Small Business Enterprise (SBE):9 percent. The EIC utilization levels of the recommended contractor, Tucci & Sons Inc, are MBE:9 percent, WBE:8 percent, and SBE:9 percent. The Local Employment and Apprenticeship Training Program goal is 1,050 hours.



FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
1060-CAPTL (PW Street Capital Projects)	PWK-G0026-05-01	5330100	\$2,771,347.61
Tacoma Power CBD A&R Fund 4700	PWR-01013-03-04	5330100	\$935,690.68
4600 13-WC 2013 Bond Fund	WTR-00604-01-02-03	5330100	\$1,048,974.90
ES Surface Water Utility Fund 4301	ENV-03031-09-04	5330100	\$1,079,835.83
ES Wastewater Utility Fund 4300	ENV-04023-08-04	5330100	\$1,053,612.96
TOTAL			Up to \$6,889,416.98

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
WSDOT - State Grant	PWK-G0026-FS-04	4332270	\$882,525.80
Streets Initiative Revenues	PWK-G0026-FS-02	6311108	\$1,281,213.03
Private Developer	PWK-G0026-FS-06	4345811	\$538,887.54
General Fund 1065	PWK-G0026-FS-02	6311000	\$68,673.24
Tacoma Power CBD A&R Fund 4700	PWR-01013-FS-LT	6311200	\$935,690.68
4600 13-WC 2013 Bond Fund	586313	6311163	\$1,048,974.90
ES Surface Water Utility Fund 4301	521900	Rate Revenues	\$1,079,835.83
ES Wastewater Utility Fund 4300	523900	Rate Revenues	\$1,053,612.96
TOTAL			\$6,889,416.98



City of Tacoma

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$6,889,416.90

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

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

APPROVED

Elizabeth A. Pauli, City Manager (or designee)



TO: Chris Larson, P.E., Division Manager, Public Works Engineering Division
Jessica Knickerbocker, P.E., Assistant Division Manager, Planning & Engineering,
Tacoma Water

FROM: Darius Thompson, Project Manager, Public Works Engineering Division
Ali Polda, P.E., Principal Engineer, Planning & Engineering, Tacoma Water

SUBJECT: Revision 1 - Agreement for South 21st and Fawcett Street PWK-G0026/MRP 2019-12

DATE: July 13th, 2021

An original agreement was executed on March 27th 2020, this Agreement (revision 1), supersedes the original.

Tacoma Public Works, Engineering Division and Tacoma Water, Planning & Engineering is collaborating to add water related infrastructure to the Fawcett Avenue and South 21st Street Project.

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

1. The project is located in the Downtown Tacoma, along Fawcett Avenue, from S 19th to S 21st Streets and from S 21st Street, from Tacoma Avenue to Jefferson Avenue. Water infrastructure improvements include installing new 6-inch to 24-inch water main and associated appurtenances along the entire project extents. Project design began in March 2019, the project advertised for construction in May 2021, and bids opened June 22, 2021.
2. The project has been combined into a single Public Works construction contract. Public Works has the responsibility to lead and coordinate the compilation of contract plans & specifications and advertise & award the construction contract.
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. These costs have been segregated within "Schedule W" of the contract bid proposal. The estimated cost of "Schedule W" plus force account is \$548,563.50 plus taxes.
4. Tacoma Water will be responsible for the shared street restoration and general contract costs as reflected in the Project Breakdown Estimate worksheet (see exhibit A). Tacoma Water's portion of the shared cost is based on actual bid pricing and is estimated to be approximately \$363,588.58 plus taxes. As 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.
5. The Department of Public Works will administer the construction contract and provide construction management (Contract Administration, Construction Inspection Assistance, and Construction Survey). Public Works Department will charge Tacoma Water for the additional incremental contract administration time associated with Tacoma Water's scope of work. Tacoma Water will compensate the Public Works Department in the amount of 6% of the lowest




responsible bidder's water base bid plus the shared item costs less force account bid items and sales tax. The estimated cost for the Tacoma Water portion of contract administration is \$51,819.12. This amount will be 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.

- 6. Tacoma Water will be responsible for the daily inspection of the water main construction. Tacoma Water, Public Works and Environmental Services inspections will be a cooperative and coordinated effort.
- 7. Tacoma Water has provided the following WBSE for charging these construction costs:
 - o WTR-00604-01-02-03 Construction Payments
- 8. Project participation is subject to Public Utility Board Approval.

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 \$912,152.08 plus a contract administration cost of \$51,819.12 for a cumulative total of \$963,971.21 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.


- 9. The Public Works Department will invoice Tacoma Water for all work completed in 2021 by December 31, 2021 and then again at the completion of the project.



Jessica Knickerbocker, P.E.
Planning & Engineering Assistant Division Manager
Tacoma Water

07/14/2021

Date



Chris Larson, P.E.
Engineering Division Manager
Public Works

07/13/2021

Date

Cc: Sue O'Neill, Public Works, Engineering Division
Geff Yotter, Planning & Engineering, Tacoma Water
Tina Dunn, Public Works, Engineering Division

QUANTITIES - Fawcett, 21st, Jefferson				TOTAL ROAD, SIGNALS, STLT				16197314.01												
Item	Spec	Description	Unit	Total Quantity	Unit Cost	Total Cost	ER031.2		PW	ES	WA	Power	SUM	SUMPROP (UP)	PW	ES	WA	Power	SUM	
							Street #1 Fawcett 21st @ 10%	Street #2 21st												
R 1	2-02	Remove Abandoned Trolley Track	Ln. Ft.	100	\$35.00	\$ 3,500.00	0	100	0	0	0	190.00	1.000	\$ 1,750.00	\$ 1,750.00	\$ -	\$ -	\$ -	\$ 1,500.00	
R 2	2-02	Test Hole	Ln. Ft.	52	\$40.00	\$ 2,080.00			17.33	17.33	0	17.33	32.00	1.000	\$ 693.33	\$ 693.33	\$ -	\$ -	\$ 693.33	\$ 2,080.00
R 3	2-03	Roadway Excavation of Non-contaminated Material, incl. Haul	Cu. Yd.	1756	\$30.00	\$ 52,680.00	1150	600	438	438	438	175.00	1.000	\$ 12,500.00	\$ 11,500.00	\$ 17,500.00	\$ 17,500.00	\$ 17,500.00	\$ 70,000.00	
R 4	2-03	Roadway Excavation of Contaminated Material, incl. Haul	Cu. Yd.	775	\$60.00	\$ 46,500.00	800	270	193	193	193	770.00	1.000	\$ 11,500.00	\$ 11,500.00	\$ 11,500.00	\$ 11,500.00	\$ 11,500.00	\$ 48,500.00	
R 5	2-03	Gravel Borrow incl. Haul	Ton	700	\$16.00	\$ 11,200.00	150	470												
R 6	2-03	Embankment Compaction	Cu. Yd.	210	\$8.00	\$ 1,680.00	74	235												
R 7	2-09	Structure Excavation Class B Incl. Haul - Non-contaminated	Cu. Yd.	476	\$25.00	\$ 11,900.00	110	284												
R 8	3-09	Structure Excavation on Class B Incl. Haul - Contaminated	Cu. Yd.	110	\$45.00	\$ 4,950.00	73	35												
R 9	2-14	Pavement Removal	Sq. Yd.	9982	\$23.00	\$ 229,626.00	4392	5590	6818.00	2163.00	731.00	998.00	998.00	1.000	\$ 126,360.00	\$ 42,140.00	\$ 14,510.00	\$ 5,800.00	\$ 199,540.00	
R 10	2-15	Remove Curb	Ln. Ft.	2000	\$2.50	\$ 5,000.00	1400	600												
R 11	2-24	Crushed Surfacing Top Course	Ton	1400	\$45.00	\$ 63,000.00	840	600	840.00	281.00	203.00	0.00	1400.00	1.000	\$ 42,870.00	\$ 11,295.00	\$ 9,135.00	\$ -	\$ 63,000.00	
R 12	2-24	Crushed Surfacing Base Course	Ton	1500	\$35.00	\$ 52,500.00	760	731	442.00	593.00	433.00	0.00	1500.00	1.000	\$ 16,170.00	\$ 21,175.00	\$ 15,158.00	\$ -	\$ 52,500.00	
R 13	3-04	Placing Bituminous Pavement	Sq. Yd.	220	\$20.00	\$ 4,400.00	96	124												
R 14	3-04	Fiber Reinforced HMA CL 1/2" PG 58H-22, per ton	Ton	1400	\$125.00	\$ 175,000.00	518	882	418.00	587.00	384.00	0.00	1400.00	1.000	\$ 51,875.00	\$ 74,625.00	\$ 48,500.00	\$ -	\$ 175,000.00	
R 15	3-04	Temporary Pavement Patch	Ton	40	\$190.00	\$ 7,600.00	40	0												
R 16	3-06	Music for Agreement CL 1/2" PG 58H-22	Sq. Yd.	110	\$25.00	\$ 2,750.00	0	110												
R 17	3-05	Traffic Island Concrete Pavement, 7-Inch Section	Sq. Yd.	60	\$300.00	\$ 18,000.00	29	31												
R 18	3-05	Cement Conc. Pavement, 10-Inch Section	Sq. Yd.	3800	\$115.00	\$ 437,350.00	850	3240												
R 19	7-05	Adjust Existing Valve Chamber to Grade	Each	11	\$1,200.00	\$ 13,200.00	3	8												
R 20	8-02	Bark or Woodchip Mulch	CF	24	\$75.00	\$ 1,800.00	20	4												
R 21	8-02	Plant Selection 1/4" Poplar (Larix laricina)	Each	10	\$1,800.00	\$ 18,000.00	10	0												
R 22	8-02	Plant Selection Decid. Cedar (Cedrus Decidua)	Each	5	\$1,800.00	\$ 9,000.00	5	0												
R 23	8-02	Plant Selection Italian Oak (Quercus Frainetto)	Each	8	\$1,800.00	\$ 14,400.00	8	0												
R 24	8-02	Plant Selection Sitka Spruce (Picea Sitikensis)	Each	3	\$1,800.00	\$ 5,400.00	3	0												
R 25	8-04	Mountable Traffic Island Curb	Ln. Ft.	230	\$39.00	\$ 9,070.00	0	230												
R 26	8-04	Cement Conc. Traffic Curb and Gutter	Ln. Ft.	2055	\$40.00	\$ 82,200.00	1634	493												
R 27	8-06	Cement Conc. Driveway Entrance	Sq. Yd.	101	\$115.00	\$ 11,615.00	35	70												
R 28	8-09	Raised Pavement Marker Type 2	Wand	3	\$550.00	\$ 1,650.00	1	2												
R 29	8-09	Low Profile Plastic Curbing with Demarcators	Ln. Ft.	126	\$80.00	\$ 10,080.00	80	90												
R 30	8-13	Monument in Case	Each	3	\$1,200.00	\$ 3,600.00	1	2												
R 31	8-14	Cement Conc. Sidewalk	Sq. Yd.	1400	\$75.00	\$ 105,000.00	800	600	1119	0	0	250	1400.00	1.000	\$ 83,250.00	\$ -	\$ -	\$ 21,750.00	\$ 105,000.00	
R 32	8-14	Cement Conc. Curb Ramp	Each	12	\$3,500.00	\$ 42,000.00	8	4	10	0	0	0	12.00	1.000	\$ 35,000.00	\$ 7,000.00	\$ -	\$ -	\$ 42,000.00	
R 33	8-14	Reflective Warning Surface	Sq. Ft.	40	\$55.00	\$ 2,200.00	40	0	40	0	0	0	40.00	1.000	\$ 2,200.00	\$ -	\$ -	\$ -	\$ 2,200.00	
R 34	8-15	Quarry Spalls	Ton	40	\$50.00	\$ 2,000.00	20	20												
R 35	8-22	Plastic Crosswalk Marking	Ln. Ft.	80	\$12.00	\$ 960.00	10	80												
R 36	8-22	Plastic Traffic Arrow	Each	10	\$150.00	\$ 1,500.00	3	10												
R 37	8-22	Plastic Crosswalk Line	Ln. Ft.	1550	\$5.00	\$ 7,750.00	450	1100												
R 38	8-22	Plastic Wheel Lane Line	Ln. Ft.	855	\$4.00	\$ 3,420.00	220	635												
R 39	8-22	Plastic Stop Line	Ln. Ft.	230	\$7.70	\$ 1,771.00	50	180												
R 40	8-22	Plastic Line	Ln. Ft.	3040	\$2.75	\$ 8,360.00	840	2200												
R 41	8-22	Painted Curb	Ln. Ft.	500	\$1.45	\$ 725.00	500	0												
R 42	8-22	Plastic Traffic Letter	Each	24	\$110.00	\$ 2,640.00	8	16												
R 43	8-22	Plastic Sharow Symbol	Each	12	\$250.00	\$ 3,000.00	12	0												
R 44	8-22	Plastic Bicycle Lane Symbol	Each	7	\$250.00	\$ 1,750.00	7	0												
R 45	8-22	Green Durable Product	Sq. Ft.	1100	\$12.00	\$ 13,200.00	1100	0												
R 46	8-23	Temporary Pavement Marking - Short Duration	Ln. Ft.	2000	\$5.00	\$ 10,000.00	0	2000												
R 47	8-30	Hand Nail	Ln. Ft.	100	\$85.00	\$ 8,500.00	0	100												
Sub Total							\$ 1,515,466.00							\$ 398,328	\$ 188,428	\$ 116,460	\$ 57,293	\$ 761,120		
Force Account Items									PW	ES	WA	Power								
R 48	2-01	Controlled Access Assessment Report Compliance	Est	1	\$10,000	\$ 10,000.00	Total 4							\$ 2,500	\$ 2,500	\$ 3,500	\$ 2,500	\$ 10,000		
R 49	2-02	Existing Irrigation Systems	Est	1	\$1,000	\$ 1,000.00	Total 4							\$ 250	\$ 250	\$ 250	\$ 250	\$ 1,000		
R 50	2-09	Field Adjustment	Est	1	\$10,000	\$ 10,000.00	Total 4							\$ 2,500	\$ 2,500	\$ 2,500	\$ 2,500	\$ 10,000		
R 51	1-04	Minor Change	Est	1	\$5,000	\$ 5,000.00	Total 4							\$ 625	\$ 625	\$ 625	\$ 625	\$ 5,000		
R 52	1-07 (20)	Archaeological and Historical Objects Monitor	Est	1	\$5,000	\$ 5,000.00	Total 4							\$ 2,000	\$ 2,000	\$ 2,000	\$ 2,000	\$ 5,000		
Sub Total							\$ 40,000.00							\$ 5,875	\$ 5,875	\$ 5,875	\$ 5,875	\$ 40,000.00		

QUANTITIES - Faircett St & Jefferson				TOTAL ROAD, SIGNALS, STLT		16,178,114.55		199910.2		88																																																																																																																																																																																																																																																																																																																																																																																																																															
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P-1	8-40	Structure Excavation Class B incl. Haul - Non-contaminated	CY	312	\$25.00	\$ 7,800.00			234	77																																																																																																																																																																																																																																																																																																																																																																																																																															
P-2	8-40	Structure Excavation Class B incl. Haul - Contaminated	CY	77	\$45.00	\$ 3,465.00			77	0																																																																																																																																																																																																																																																																																																																																																																																																																															
P-3	8-40	Power Utility Vault	Each	3	\$50,000.00	\$ 150,000.00			3	0																																																																																																																																																																																																																																																																																																																																																																																																																															
P-4	8-40	Conduit Bank, Section A	Lin. Ft.	269	\$300.00	\$ 80,700.00			269	0																																																																																																																																																																																																																																																																																																																																																																																																																															
P-5	8-40	Conduit Bank, Section B	Lin. Ft.	70	\$400.00	\$ 28,000.00			70	0																																																																																																																																																																																																																																																																																																																																																																																																																															
P-6	8-40	Conduit Bank, Section C	Lin. Ft.	358	\$400.00	\$ 143,200.00			358	0																																																																																																																																																																																																																																																																																																																																																																																																																															
P-7	8-40	Conduit Bank, Section D	Lin. Ft.	18	\$525.00	\$ 9,450.00			18	0																																																																																																																																																																																																																																																																																																																																																																																																																															
P-8	8-40	Conduit Bank, Section E	Lin. Ft.	526	\$200.00	\$ 105,200.00			0	517																																																																																																																																																																																																																																																																																																																																																																																																																															
P-9	8-40	Electronic Tracer Bail	Each	4	\$175.00	\$ 700.00			1	3																																																																																																																																																																																																																																																																																																																																																																																																																															
					Sub Total	\$ 543,315.00																																																																																																																																																																																																																																																																																																																																																																																																																																			
					Tax	\$ 55,382.05																																																																																																																																																																																																																																																																																																																																																																																																																																			
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10,000.00	\$4,183.89	\$3,000.85	\$1,487.87	\$1,344.29	\$10,000.00	L-8 2-01	Certified Arborist	Lump Sum	1	\$500.00	\$ 500.00	\$208.19	\$150.13	\$74.40	\$67.21	\$500.00	L-9 2-02	Removal of Structures and Obstructions	Lump Sum	1	\$100,000.00	\$ 100,000.00	\$41,638.94	\$30,038.47	\$14,879.69	\$13,442.90	\$100,000.00	L-10 2-06	Subgrade Maintenance and Protection	Lump Sum	1	\$5,000.00	\$ 5,000.00	\$2,081.89	\$1,501.32	\$743.88	\$672.14	\$5,000.00	L-11 2-17	Site Health and Safety Plan	Lump Sum	1	\$250.00	\$ 250.00	\$104.10	\$75.10	\$37.20	\$33.61	\$250.00	L-12 2-17	Site Health and Safety Officer	Lump Sum	1	\$250.00	\$ 250.00	\$104.10	\$75.10	\$37.20	\$33.61	\$250.00	L-13 2-17	Soil Management Plan	Lump Sum	1	\$250.00	\$ 250.00	\$104.10	\$75.10	\$37.20	\$33.61	\$250.00	L-14 8-01	Erosion Control and Water Pollution Prevention	Lump Sum	1	\$7,500.00	\$ 7,500.00	\$3,172.92	\$2,252.89	\$1,115.96	\$1,008.22	\$7,500.00	L-15 8-01	Stormwater Pollution Prevention Plan (SWPPP)	Lump Sum	1	\$250.00	\$ 250.00	\$141.30	\$75.10	\$37.20	\$33.61	\$250.00	L-16 8-01	NPDES Construction Stormwater General Permits	Lump Sum	1	\$1,000.00	\$ 1,000.00	\$418.39	\$308.38	\$148.80	\$134.43	\$1,000.00	L-17 8-01	Dewatering Plan	Lump Sum	1	\$250.00	\$ 250.00	\$0.00	\$250.00	\$0.00	\$0.00	\$250.00	L-18 8-01	Dewatering	Lump Sum	1	\$150,000.00	\$ 150,000.00	\$18,000.00	\$87,000.00	\$30,000.00	\$15,000.00	\$150,000.00	L-19 8-40	Regrade Restoration	Lump Sum	1	\$35,000.00	\$ 35,000.00	\$14,573.03	\$10,513.46	\$5,207.89	\$4,705.01	\$35,000.00	L-20 8-20	Illumination System, 521st Street Complete	Lump Sum	1	\$75,000.00	\$ 75,000.00	\$75,000.00				\$75,000.00	L-21 8-20	Illumination System, Faircett Ave Complete	Lump Sum	1	\$225,000.00	\$ 225,000.00	\$225,000.00				\$225,000.00	L-22 8-20	Interconnect System, Complete	Lump Sum	1	\$65,000.00	\$ 65,000.00	\$65,000.00				\$65,000.00	L-23 8-20	NAVIC Beacon System, Complete	Lump Sum	1	\$275,000.00	\$ 275,000.00	\$275,000.00				\$275,000.00	L-24 8-21	Permanent 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General Bid Items (R1-R47)	\$ 398,938.33	\$ 188,426.33	\$ 116,460.00	\$ 57,293.33	\$ 761,120.00	Share of Lump Sum Items (L1-L24)	\$ 1,243,083.15	\$ 499,152.53	\$ 233,628.58	\$ 199,335.73	\$ 2,175,200.00	Non-Shared Items From THIS Sheet	\$ 754,346.00	\$ 1,154,092.00	\$ 548,563.50	\$ 543,515.00	\$ 3,000,516.60	Force Account Items (R48-R52)	\$ 13,500.00	\$ 13,500.00	\$ 13,500.00	\$ 13,500.00	\$ 54,000.00		\$ 2,490,827.48	\$ 1,865,173.86	\$ 912,162.58	\$ 813,644.57	\$ 6,081,808.49	WA Bid Items Schedule W Subtotal			\$ 548,563.50			WA Shared Bid Items Subtotal			\$ 363,598.58			WA Total			\$ 912,162.08		
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L-1 1-05	Highway Surveying	Lump Sum	1	\$25,000.00	\$ 25,000.00	\$14,373.03	\$10,513.46	\$5,207.89	\$4,705.01	\$35,000.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-2 1-05	Project Red Line Drawings	Lump Sum	1	\$2,500.00	\$ 2,500.00	\$1,412.97	\$750.96	\$375.07	\$335.07	\$2,500.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-3 1-07	SFCC Plan	Lump Sum	1	\$250.00	\$ 250.00	\$104.10	\$75.10	\$37.20	\$33.61	\$250.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-4 1-09	Mobilization	Lump Sum	1	\$598,500.00	\$ 598,500.00	\$249,209.05	\$179,780.25	\$89,054.96	\$80,455.74	\$598,500.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-5 1-10	Pedestrian Traffic Control	Lump Sum	1	\$25,000.00	\$ 25,000.00	\$10,409.73	\$7,509.92	\$3,719.92	\$3,360.72	\$25,000.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-6 1-10	Project Temporary Traffic Control	Lump Sum	1	\$550,000.00	\$ 550,000.00	\$229,014.17	\$165,211.59	\$81,838.31	\$73,935.94	\$550,000.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-7 1-01	Cleaning and Grubbing	Lump Sum	1	\$10,000.00	\$ 10,000.00	\$4,183.89	\$3,000.85	\$1,487.87	\$1,344.29	\$10,000.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-8 2-01	Certified Arborist	Lump Sum	1	\$500.00	\$ 500.00	\$208.19	\$150.13	\$74.40	\$67.21	\$500.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-9 2-02	Removal of Structures and Obstructions	Lump Sum	1	\$100,000.00	\$ 100,000.00	\$41,638.94	\$30,038.47	\$14,879.69	\$13,442.90	\$100,000.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-10 2-06	Subgrade Maintenance and Protection	Lump Sum	1	\$5,000.00	\$ 5,000.00	\$2,081.89	\$1,501.32	\$743.88	\$672.14	\$5,000.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-11 2-17	Site Health and Safety Plan	Lump Sum	1	\$250.00	\$ 250.00	\$104.10	\$75.10	\$37.20	\$33.61	\$250.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-12 2-17	Site Health and Safety Officer	Lump Sum	1	\$250.00	\$ 250.00	\$104.10	\$75.10	\$37.20	\$33.61	\$250.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-13 2-17	Soil Management Plan	Lump Sum	1	\$250.00	\$ 250.00	\$104.10	\$75.10	\$37.20	\$33.61	\$250.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-14 8-01	Erosion Control and Water Pollution Prevention	Lump Sum	1	\$7,500.00	\$ 7,500.00	\$3,172.92	\$2,252.89	\$1,115.96	\$1,008.22	\$7,500.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-15 8-01	Stormwater Pollution Prevention Plan (SWPPP)	Lump Sum	1	\$250.00	\$ 250.00	\$141.30	\$75.10	\$37.20	\$33.61	\$250.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-16 8-01	NPDES Construction Stormwater General Permits	Lump Sum	1	\$1,000.00	\$ 1,000.00	\$418.39	\$308.38	\$148.80	\$134.43	\$1,000.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-17 8-01	Dewatering Plan	Lump Sum	1	\$250.00	\$ 250.00	\$0.00	\$250.00	\$0.00	\$0.00	\$250.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-18 8-01	Dewatering	Lump Sum	1	\$150,000.00	\$ 150,000.00	\$18,000.00	\$87,000.00	\$30,000.00	\$15,000.00	\$150,000.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-19 8-40	Regrade Restoration	Lump Sum	1	\$35,000.00	\$ 35,000.00	\$14,573.03	\$10,513.46	\$5,207.89	\$4,705.01	\$35,000.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-20 8-20	Illumination System, 521st Street Complete	Lump Sum	1	\$75,000.00	\$ 75,000.00	\$75,000.00				\$75,000.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-21 8-20	Illumination System, Faircett Ave Complete	Lump Sum	1	\$225,000.00	\$ 225,000.00	\$225,000.00				\$225,000.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-22 8-20	Interconnect System, Complete	Lump Sum	1	\$65,000.00	\$ 65,000.00	\$65,000.00				\$65,000.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-23 8-20	NAVIC Beacon System, Complete	Lump Sum	1	\$275,000.00	\$ 275,000.00	\$275,000.00				\$275,000.00																																																																																																																																																																																																																																																																																																																																																																																																																															
L-24 8-21	Permanent Signage	Lump Sum	1	\$13,700.00	\$ 13,700.00	\$13,700.00				\$13,700.00																																																																																																																																																																																																																																																																																																																																																																																																																															
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>PW</th> <th>ES</th> <th>WA</th> <th>Power</th> <th>Sum</th> </tr> </thead> <tbody> <tr> <td>Share of General Bid Items (R1-R47)</td> <td>\$ 398,938.33</td> <td>\$ 188,426.33</td> <td>\$ 116,460.00</td> <td>\$ 57,293.33</td> <td>\$ 761,120.00</td> </tr> <tr> <td>Share of Lump Sum Items (L1-L24)</td> <td>\$ 1,243,083.15</td> <td>\$ 499,152.53</td> <td>\$ 233,628.58</td> <td>\$ 199,335.73</td> <td>\$ 2,175,200.00</td> </tr> <tr> <td>Non-Shared Items From THIS Sheet</td> <td>\$ 754,346.00</td> <td>\$ 1,154,092.00</td> <td>\$ 548,563.50</td> <td>\$ 543,515.00</td> <td>\$ 3,000,516.60</td> </tr> <tr> <td>Force Account Items (R48-R52)</td> <td>\$ 13,500.00</td> <td>\$ 13,500.00</td> <td>\$ 13,500.00</td> <td>\$ 13,500.00</td> <td>\$ 54,000.00</td> </tr> <tr> <td></td> <td>\$ 2,490,827.48</td> <td>\$ 1,865,173.86</td> <td>\$ 912,162.58</td> <td>\$ 813,644.57</td> <td>\$ 6,081,808.49</td> </tr> <tr> <td>WA Bid Items Schedule W Subtotal</td> <td></td> <td></td> <td>\$ 548,563.50</td> <td></td> <td></td> </tr> <tr> <td>WA Shared Bid Items Subtotal</td> <td></td> <td></td> <td>\$ 363,598.58</td> <td></td> <td></td> </tr> <tr> <td>WA Total</td> <td></td> <td></td> <td>\$ 912,162.08</td> <td></td> <td></td> </tr> </tbody> </table>							PW	ES	WA	Power	Sum	Share of General Bid Items (R1-R47)	\$ 398,938.33	\$ 188,426.33	\$ 116,460.00	\$ 57,293.33	\$ 761,120.00	Share of Lump Sum Items (L1-L24)	\$ 1,243,083.15	\$ 499,152.53	\$ 233,628.58	\$ 199,335.73	\$ 2,175,200.00	Non-Shared Items From THIS Sheet	\$ 754,346.00	\$ 1,154,092.00	\$ 548,563.50	\$ 543,515.00	\$ 3,000,516.60	Force Account Items (R48-R52)	\$ 13,500.00	\$ 13,500.00	\$ 13,500.00	\$ 13,500.00	\$ 54,000.00		\$ 2,490,827.48	\$ 1,865,173.86	\$ 912,162.58	\$ 813,644.57	\$ 6,081,808.49	WA Bid Items Schedule W Subtotal			\$ 548,563.50			WA Shared Bid Items Subtotal			\$ 363,598.58			WA Total			\$ 912,162.08																																																																																																																																																																																																																																																																																																																																																																																
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