



RESOLUTION NO. U-11248

1 A RESOLUTION related to Tacoma Water; authorizing participation in a City of
2 Tacoma, Environmental Services, Stormwater, Wastewater, and Water
Replacement Project along S. Cushman Avenue.

3 WHEREAS the City of Tacoma, Tacoma Public Utilities, Water Division
4 ("Tacoma Water") is requesting authorization to participate in the City of
5 Tacoma, Environmental Services Department ("Environmental Services")
6 Stormwater, Wastewater, and Water Replacement Project along S. Cushman
7 Avenue, and
8

9 WHEREAS, as part of this Project, Tacoma Water proposes to partner
10 with Environmental Services and Public Works to replace approximately 2,090
11 feet of 6-inch to 16-inch water main, constructed circa 1948, along S. Cushman
12 Avenue between S. 21st Street and S. 28th Street, as a part of a project that is
13 also replace aging surface water, wastewater, curb ramps and street
14 improvements, and
15

16 WHEREAS the approximate cost for Tacoma Water is \$701,384.32,
17 which includes a partner administration cost of \$18,040.32, for a cumulative
18 total of \$806,591.97, which includes a fifteen percent contingency, with funding
19 for this project available from WTR-00604-01-03, 2019-36 Construction
20 Payments to ES, and
21

22 WHEREAS the opportunity to participate in this contract allows Tacoma
23 Water's water main work to be executed concurrently with Environmental
24 Services' contract in the same area, resulting in reduced construction impacts
25 and reduced overall project costs while improving project delivery, and
26



1 WHEREAS Tacoma Water requests authority to participate in the
2 Environmental Services contract for the above purpose and reasons; Now,
3 Therefore,

4
5 BE IT RESOLVED BY THE PUBLIC UTILITY BOARD OF THE CITY OF TACOMA:

6 That Tacoma Water is authorized to participate in the Environmental
7 Services' and Public Works' contract for the Stormwater, Wastewater, and
8 Water Replacement along S. Cushman Avenue, with costs in the amount of
9 \$701,384.32 including a partner administration cost in the amount of
10 \$18,040.32 and a fifteen percent contingency, for a cumulative total of
11 \$806,591.97, and the proper officers of the City are authorized to execute an
12 agreement in a form as approved by the City Attorney.

13
14 Approved as to form:

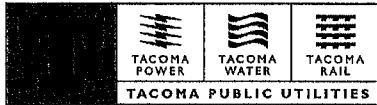
15 _____
16 /s/ _____
17 Chief Deputy City Attorney

Chair

Secretary

18 _____
19 Clerk

Adopted



Board Action Memorandum

TO: Jackie Flowers, Director of Utilities *JE*
COPY: Charleen Jacobs, Director and Board Offices
FROM: Scott Dewhirst, Utilities Dir Dep Water Supt, Tacoma Water *SD*
Troy Saghafi, Professional Engineer, Tacoma Water
MEETING DATE: 4-14-21
DATE: February 25th, 2021

SUMMARY:

Authorize Tacoma Water to participate in the City of Tacoma, Department of Environmental Services, Stormwater, Wastewater, and Water Replacement Project along S. Cushman Avenue. Tacoma Water proposes to replace approximately 2,090 feet of 6-inch to 16-inch water main. Total project cost is \$701,384.32, which includes a partner administration cost of \$18,040.32, plus a 15 percent contingency, for a cumulative total of \$806,591.97.

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

BACKGROUND:

Tacoma Water is partnering with the Environmental Services Department and Public Works to reconstruct the existing roadway and replace approximately 2,090 feet of existing water main, constructed circa 1948, along S. Cushman Ave. (between S. 21st St. to S. 28th St.). This project will also replace aging surface water, wastewater, curb ramps and street tree improvements.

Project partner contributions are summarized in the Tacoma Water-Environmental Services Joint Agreement Memorandum.

ISSUE: Existing water main is upwards of 70 years old. Sections of the water main are 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 by replacing the water main.



Board Action Memorandum

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
Agreement for Joint Project Tacoma Water – Environmental Services

CONTACT: Troy Saghafi, Professional Engineer, 253-345-8445
Ali Poldi, Principal Engineer, 253-502-8152



Project Extents – S. Cushman Ave., from S. 21st St. to S. 28th St.



DATE: February 23, 2021

TO: Shannon Wall, P.E., Planning & Engineering Division Manager, Tacoma Water
John Burk, P.E., Environmental Services Division Manager

FROM: Troy Saghafi, P.E., Planning & Engineering Professional Engineer, Tacoma Water
Olivia Mathison, City of Tacoma, Environmental Services Capital Delivery Group

Our respective organizations believe a coordinated effort to replace the water, sanitary sewer, and storm infrastructure in conjunction with streets and sidewalk ramp improvements along S. Cushman Avenue, between S. 21st Street and S. 28th St., under a single City of Tacoma contract will result in efficiency and cost savings to all parties. Additionally, a joint project will minimize construction disturbance to adjacent businesses and the general public. The following summarizes the arrangements, assumptions, and action items necessary to move forward with this project:

- The project has been combined into a single Environmental Services construction contract. Environmental Services has the responsibility to lead and coordinate compilation of contract plans & specifications and advertise & award the construction contract.
- The Department of Environmental Services will administer the construction contract. Environmental Services will charge Tacoma Water for the additional incremental contract administration time associated with Tacoma Water scope of work. Tacoma Water will compensate the Environmental Services Department in the amount of 3% of the lowest responsible bidder's water base bid plus the shared item costs less sales tax. The estimated cost for the Tacoma Water portion of contract administration is \$18,040.32. This amount will be transferred to the Department of Environmental Services 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.
- Tacoma Water will be responsible for shared street restoration and general contract costs as reflected in the Project Breakdown Estimate worksheet (see exhibit A). Tacoma Water portion of the shared cost are based on actual bid pricing and are estimated to be approximately \$217,555.00

As quantities on the Project Breakdown Estimate worksheet are contractor bid estimates, 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.

- Tacoma Water will provide the WBSE for charging water main construction costs to the Water Division fund. The Water Division WBSE for this project is as follows:

WTR-00604-01-06-03, 2019-36 Construction Payments to ES

- 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 D" of the contract bid proposal. Costs for the water distribution main is \$465,789.00



- Tacoma Water will request authorization from the Public Utility Board to participate in the Environmental Services contract as soon as possible following determination of the lowest responsible bidder.
- Tacoma Water will be included and fully involved in the initiation, discussion, and review of any addenda, revisions, change orders, or change of scope pertaining to the water main work. Any addenda, revisions, change orders, or change of scope pertaining to the water main scope of work or shared bid items shall be subject to the approval of Tacoma Water.
- Tacoma Water will perform all water main construction staking.
- The Department of Environmental Services will act as the overall contract construction inspection lead. 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.

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 Environmental Services, and Tacoma Water. Tacoma Water's total project contribution cost for this project is \$701,384.32. By signature, please indicate your approval to proceed with this joint project.

Shannon Wall

Shannon Wall, P.E.
Planning & Engineering Division Manager

02/23/2021

Date

John Burk

John Burk, P.E.
Environmental Services Division Manager

02/23/2021

Date

cc: Geff Yotter, Tacoma Water

File MRP 2019-36

EXHIBIT A

Project Breakdown Estimate

Stormwater, Wastewater & Water Main Replacement Project - S Cushman Ave from S 21st St to S 28th St
ES20-0003F

SHARED BY PERCENTAGE - ALL UTILITIES						PW		SW		W		WW	
Item #	Bid Item Name	Unit	Qty	Unit Price	Amount	%	\$	%	\$	%	\$	%	\$
R002	SPCC Plan	LS	1	\$250.00	\$250.00	26%	65	9%	22.5	27%	67.5	38%	95
R003	Mobilization	LS	1	\$245,000.00	\$245,000.00	26%	63700	9%	22050	27%	66150	38%	93100
R004	Project Temporary Traffic Control	LS	1	\$125,000.00	\$125,000.00	26%	32500	9%	11250	27%	33750	38%	47500
R005	Pedestrian Traffic Control	LS	1	\$8,800.00	\$8,800.00	26%	2288	9%	792	27%	2376	38%	3344
R022	Stormwater Pollution Prevention Plan (SWPPP)	LS	1	\$250.00	\$250.00	26%	65	9%	22.5	27%	67.5	38%	95
R023	NPDES Construction Stormwater General Permit Transfer of Coverage	LS	1	\$26,000.00	\$26,000.00	26%	6760	9%	2340	27%	7020	38%	9880
R026	Erosion/Water Pollution Control	FA	1	\$50,000.00	\$50,000.00	26%	13000	9%	4500	27%	13500	38%	19000
R031	Site Restoration	FA	1	\$30,000.00	\$30,000.00	26%	7800	9%	2700	27%	8100	38%	11400
		AC	0	\$0.00	\$0.00	26%	0	9%	0	27%	0	38%	0
Subtotal					\$485,300.00		\$126,178.00		\$43,677.00		\$131,031.00		\$184,414.00

SHARED BY PERCENTAGE - EXCLUDING WATER						PW		SW		W		WW	
Item #	Bid Item Name	Unit	Total Proj Qty	Unit Price	Amount	%	\$	%	\$	%	\$	%	\$
R001	Project Red Line Drawings	LS	1	\$500.00	\$500.00	35%	175	13%	65			52%	260
R006	Clearing and Grubbing	LS	1	\$83,359.60	\$83,359.60	35%	29175.86	13%	10836.748			52%	43346.992
R007	Removal of Structures and Obstructions	LS	1	\$50,000.00	\$50,000.00	35%	17500	13%	6500			52%	26000
		AC	0	\$0.00	\$0.00	35%	0	13%	0			52%	0
		AC	0	\$0.00	\$0.00	35%	0	13%	0			52%	0
Subtotal					\$133,859.60		\$46,850.86		\$17,401.75				\$69,606.99

Note: items listed in this category should include any items that are usually split up by percentage but that Water chooses

SHARED BY QUANTITY & NON-SHARED ITEMS (included in percent partnership calculations)						PW		SW		W		WW	
Item #	Bid Item Name	Unit	Total Proj Qty	Unit Price	Amount	QTY	\$	QTY	\$	QTY	\$	QTY	\$
R008	Remove Abandoned Trolley Track	LF	30	\$58.00	\$1,740.00	0	\$0.00	0	\$0.00	15	\$870.00	15	\$870.00
R009	Remove Concrete Traffic Circle	EA	1	\$1,100.00	\$1,100.00	1	\$1,100.00	0	\$0.00	0	\$0.00	0	\$0.00
R010	Roadway Excavation, Incl. Haul	CY	1,901	\$21.00	\$39,921.00	1304	\$27,384.00	2	\$42.00	302	\$6,342.00	293	\$6,153.00
R011	Remove Existing Pavement, Type II, Class A2	SY	5,653	\$3.50	\$19,785.50	4020	\$14,070.00	291	\$1,018.50	0	\$0.00	1342	\$4,697.00
R012	Remove Existing Pavement, Type II, Class C6	SY	3,448	\$6.50	\$22,412.00	2646	\$17,199.00	29	\$188.50	0	\$0.00	773	\$5,024.50
R013	Remove Existing Pavement, Type II, Class CA	SY	341	\$21.25	\$7,246.25	238	\$5,057.50	0	\$0.00	0	\$0.00	103	\$2,188.75
R014	Remove Curb and Gutter	LF	483	\$3.25	\$1,569.75	435	\$1,413.75	30	\$97.50	0	\$0.00	18	\$58.50

EXHIBIT A

Project Breakdown Estimate

R015	Recycled Concrete Aggregate	TN	1,914	\$29.25	\$55,984.50	1748	\$51,129.00	3	\$87.75	84	\$2,457.00	79	\$2,310.75
R016	Crushed Surfacing Top Course	TN	793	\$48.00	\$35,685.00	525	\$23,625.00	27	\$1,215.00	97	\$4,365.00	144	\$6,480.00
R017	HMA CL 1/2" PG 58H-22	TN	1,066	\$92.00	\$98,072.00	635	\$58,420.00	42	\$3,864.00	155	\$14,260.00	234	\$21,528.00
R018	HMA for Approach CL 1/2" PG 58H-22	SY	213	\$45.00	\$9,585.00	213	\$9,585.00	0	\$0.00	0	\$0.00	0	\$0.00
R019	Temporary Pavement Patch	TN	241	\$154.00	\$37,114.00	0	\$0.00	51	\$7,854.00	0	\$0.00	190	\$29,260.00
R020	Cement Conc. Pavement, 8-Inch Section	SY	2,686	\$87.00	\$233,662.00	1227	\$106,749.00	29	\$2,523.00	657	\$57,159.00	773	\$67,251.00
R021	Adjust Existing Valve Chamber to Grade	EA	5	\$475.00	\$2,375.00	2	\$950.00	1	\$475.00	1	\$475.00	1	\$475.00
R024	Inlet Protection	EA	30	\$50.00	\$1,500.00	7	\$350.00	15	\$750.00	4	\$200.00	4	\$200.00
R025	Street Cleaning	HR	100	\$185.00	\$18,500.00	30	\$5,550.00	20	\$3,700.00	0	\$0.00	50	\$9,250.00
R027	Plant Selection Type Celtis Occidentalis	EA	4	\$585.00	\$2,340.00	4	\$2,340.00	0	\$0.00	0	\$0.00	0	\$0.00
R028	Plant Selection Type Magnolia Grandiflora	EA	8	\$585.00	\$4,680.00	8	\$4,680.00	0	\$0.00	0	\$0.00	0	\$0.00
R029	Plant Selection Type Crataegus Viridis	EA	9	\$585.00	\$5,265.00	9	\$5,265.00	0	\$0.00	0	\$0.00	0	\$0.00
R030	Plant Selection Type Malus Tashonoskii	EA	4	\$585.00	\$2,340.00	4	\$2,340.00	0	\$0.00	0	\$0.00	0	\$0.00
R032	Tree Protection	LS	1	\$5,000.00	\$5,000.00	1	\$5,000.00	0	\$0.00	0	\$0.00	0	\$0.00
R033	Cement Conc. Traffic Curb and Gutter	LF	1,796	\$22.00	\$39,512.00	1730	\$38,060.00	30	\$660.00	18	\$396.00	18	\$396.00
R034	Cement Conc. Traffic Circle	EA	1	\$10,700.00	\$10,700.00	1	\$10,700.00	0	\$0.00	0	\$0.00	0	\$0.00
R035	Cement Conc. Driveway Entrance	SY	496	\$63.00	\$31,248.00	496	\$31,248.00	0	\$0.00	0	\$0.00	0	\$0.00
R036	Poured Monument	EA	3	\$650.00	\$1,950.00	3	\$1,950.00	0	\$0.00	0	\$0.00	0	\$0.00
R037	Cement Conc. Sidewalk	SY	120	\$63.00	\$6,360.00	120	\$6,360.00	0	\$0.00	0	\$0.00	0	\$0.00
R038	Cement Conc. Perpendicular Curb Ramp	EA	12	\$1,960.00	\$23,520.00	12	\$23,520.00	0	\$0.00	0	\$0.00	0	\$0.00
R039	ADA Access Parking Symbol with Blue Background	EA	4	\$60.00	\$240.00	4	\$240.00	0	\$0.00	0	\$0.00	0	\$0.00
R040	Double Yellow Paint Line	LF	23	\$13.00	\$299.00	23	\$299.00	0	\$0.00	0	\$0.00	0	\$0.00
S041	Structure Excavation Class B	CY	476	\$4.00	\$1,904.00	0	\$0.00	476	\$1,904.00	0	\$0.00	0	\$0.00
S042	Shoring or Extra Excavation Class B	SF	3,690	\$0.10	\$369.00	0	\$0.00	3690	\$369.00	0	\$0.00	0	\$0.00
S043	Remove Catch Basin	EA	12	\$200.00	\$2,400.00	0	\$0.00	12	\$2,400.00	0	\$0.00	0	\$0.00
S044	Remove Manhole	EA	2	\$425.00	\$850.00	0	\$0.00	2	\$850.00	0	\$0.00	0	\$0.00
S045	Manhole 48-In. Diam. Type 1	EA	3	\$3,725.00	\$11,175.00	0	\$0.00	3	\$11,175.00	0	\$0.00	0	\$0.00
S046	Catch Basin Type 1	EA	7	\$1,000.00	\$7,000.00	0	\$0.00	7	\$7,000.00	0	\$0.00	0	\$0.00
S047	Catch Basin Type 1 with Combination Inlet	EA	6	\$1,100.00	\$6,600.00	0	\$0.00	6	\$6,600.00	0	\$0.00	0	\$0.00
S048	Catch Basin Type 2 48-In. Diam.	EA	2	\$3,650.00	\$7,300.00	0	\$0.00	2	\$7,300.00	0	\$0.00	0	\$0.00
S049	Connect New Sewer Pipe 8-In. Diam. to Existing Structure	EA	14	\$1,100.00	\$15,400.00	0	\$0.00	14	\$15,400.00	0	\$0.00	0	\$0.00

EXHIBIT A
Project Breakdown Estimate

S050	Reconnect Existing Sewer Pipe 6-In. Diam. to New Structure	EA	2	\$650.00	\$1,300.00	0	\$0.00	2	\$1,300.00	0	\$0.00	0	\$0.00
S051	Reconnect Existing Sewer Pipe 8-In. Diam. to New Structure	EA	8	\$950.00	\$7,600.00	0	\$0.00	8	\$7,600.00	0	\$0.00	0	\$0.00
S052	Reconnect Existing Sewer Pipe 10-In. Diam. to New Structure	EA	3	\$1,350.00	\$4,050.00	0	\$0.00	3	\$4,050.00	0	\$0.00	0	\$0.00
S053	Reconnect Existing Sewer Pipe 15-In. Diam. to New Structure	EA	1	\$2,625.00	\$2,625.00	0	\$0.00	1	\$2,625.00	0	\$0.00	0	\$0.00
S054	Adjust Existing Manhole, Furnish New Frame and Cover	EA	1	\$850.00	\$850.00	0	\$0.00	1	\$850.00	0	\$0.00	0	\$0.00
S055	Temporary Storm Sewer Bypass Plan	LS	1	\$250.00	\$250.00	0	\$0.00	1	\$250.00	0	\$0.00	0	\$0.00
S056	Temporary Storm Sewer Bypass	LS	1	\$6,000.00	\$6,000.00	0	\$0.00	1	\$6,000.00	0	\$0.00	0	\$0.00
S057	PVC SDR 35 Storm Sewer Pipe 12-In. Diam.	LF	411	\$65.00	\$26,715.00	0	\$0.00	411	\$26,715.00	0	\$0.00	0	\$0.00
S058	PVC SDR 35 Storm Sewer Pipe 15-In. Diam.	LF	29	\$100.00	\$2,900.00	0	\$0.00	29	\$2,900.00	0	\$0.00	0	\$0.00
S059	Ductile Iron Storm Sewer Pipe 8-In. Diam.	LF	73	\$84.00	\$6,132.00	0	\$0.00	73	\$6,132.00	0	\$0.00	0	\$0.00
S060	Ductile Iron Storm Sewer Pipe 12-In. Diam.	LF	156	\$100.00	\$15,600.00	0	\$0.00	156	\$15,600.00	0	\$0.00	0	\$0.00
S061	PVC C900 Storm Sewer Pipe 10-In. Diam.	LF	41	\$80.00	\$3,280.00	0	\$0.00	41	\$3,280.00	0	\$0.00	0	\$0.00
S062	Removal and Replacement of Unsuitable Material	CY	297	\$35.00	\$10,395.00	0	\$0.00	297	\$10,395.00	0	\$0.00	0	\$0.00
S063	Testing Sewer Pipe	LF	539	\$1.65	\$889.35	0	\$0.00	539	\$889.35	0	\$0.00	0	\$0.00
WW064	Roadway Excavation, Incl. Haul (Construction Easement Area)	CY	2	\$65.00	\$130.00	0	\$0.00	0	\$0.00	0	\$0.00	2	\$130.00
WW065	Structure Excavation Class B	CY	4,434	\$3.75	\$16,627.50	0	\$0.00	0	\$0.00	0	\$0.00	4434	\$16,627.50
WW066	Shoring or Extra Excavation Class B	SF	38,623	\$0.10	\$3,862.30	0	\$0.00	0	\$0.00	0	\$0.00	38623	\$3,862.30
WW067	Remove Existing Pavement, Type II, Class A2 (Construction Easement Area)	SY	11	\$5.00	\$55.00	0	\$0.00	0	\$0.00	0	\$0.00	11	\$55.00
WW068	Remove Manhole	EA	7	\$400.00	\$2,800.00	0	\$0.00	0	\$0.00	0	\$0.00	7	\$2,800.00
WW069	Crushed Surfacing Top Course (Construction Easement Area)	TN	4	\$29.00	\$116.00	0	\$0.00	0	\$0.00	0	\$0.00	4	\$116.00
WW070	HMA Cl. 1/2" PG 58H-22 (Construction Easement Area)	TN	2	\$92.00	\$184.00	0	\$0.00	0	\$0.00	0	\$0.00	2	\$184.00
WW071	Manhole 48 In. Diam. Type 1	EA	8	\$4,200.00	\$33,600.00	0	\$0.00	0	\$0.00	0	\$0.00	8	\$33,600.00
WW072	Manhole Additional Height 48-In. Diam. Type 1	EA	28	\$135.00	\$3,780.00	0	\$0.00	0	\$0.00	0	\$0.00	28	\$3,780.00
WW073	Reconnect Existing Sewer Pipe 8-In. Diam. to New Structure	EA	3	\$1,100.00	\$3,300.00	0	\$0.00	0	\$0.00	0	\$0.00	3	\$3,300.00
WW074	Temporary Sanitary Sewer Bypass Plan	LS	1	\$250.00	\$250.00	0	\$0.00	0	\$0.00	0	\$0.00	1	\$250.00

EXHIBIT A
Project Breakdown Estimate

WW075	Temporary Sanitary Sewer Bypass	LS	1	\$16,500.00	\$16,500.00	0	\$0.00	0	\$0.00	0	\$0.00	1	\$16,500.00
WW076	PVC SDR 35 Sanitary Sewer Pipe 6-In. Diam.	LF	687	\$75.00	\$51,525.00	0	\$0.00	0	\$0.00	0	\$0.00	687	\$51,525.00
WW077	PVC C900 Sanitary Sewer Pipe 6-In. Diam.	LF	1,396	\$80.00	\$111,680.00	0	\$0.00	0	\$0.00	0	\$0.00	1396	\$111,680.00
WW078	PVC SDR 35 Sanitary Sewer Pipe 8-In. Diam.	LF	2,165	\$57.00	\$123,405.00	0	\$0.00	0	\$0.00	0	\$0.00	2165	\$123,405.00
WW079	Removal and Replacement of Unsuitable Material	CY	3,661	\$30.00	\$109,830.00	0	\$0.00	0	\$0.00	0	\$0.00	3661	\$109,830.00
WW080	Testing Sewer Pipe	LF	2,165	\$1.65	\$3,572.25	0	\$0.00	0	\$0.00	0	\$0.00	2165	\$3,572.25
WW081	Sewer Cleanout	EA	71	\$430.00	\$30,530.00	0	\$0.00	0	\$0.00	0	\$0.00	71	\$30,530.00
W082	Removal/Disposal of existing asphalt, concrete sidewalk/curb/ing & concrete pavement. Includes all thicknesses and combinations (2-02.3(3))	SY	2,845	\$6.50	\$18,492.50	0	\$0.00	0	\$0.00	2845	\$18,492.50	0	\$0.00
W083	Temporary HMA Class ½" PG58H-22, 2-inch minimum depth, installed & removed (5-04 & 9-03.8)	SY	2,845	\$16.50	\$46,942.50	0	\$0.00	0	\$0.00	2845	\$46,942.50	0	\$0.00
W084	Crushed Surfacing Top Course for trench backfill (9-03.9(3))	TN	3,512	\$25.50	\$89,556.00	0	\$0.00	0	\$0.00	3512	\$89,556.00	0	\$0.00
W085	Storm, Sanitary, Side Sewer Restoration (7-04, 7-09.5, 7-17, & 7-18)	EA	8	\$165.00	\$1,320.00	0	\$0.00	0	\$0.00	8	\$1,320.00	0	\$0.00
W086	Trench Excavation & Disposal (7-09.3(7) & 7-09.5)	CY	2,332	\$15.75	\$36,729.00	0	\$0.00	0	\$0.00	2332	\$36,729.00	0	\$0.00
W087	Trench Shoring (7-09.3(7) & 7-09.5)	LF	2,430	\$1.00	\$2,430.00	0	\$0.00	0	\$0.00	2430	\$2,430.00	0	\$0.00
W088	18-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151, Special Thickness Class No. 52, to furnish, lay and test, (7-09.3(15)A, 7-09.5 & 9-30.1(1))	LF	52	\$91.00	\$4,732.00	0	\$0.00	0	\$0.00	52	\$4,732.00	0	\$0.00
W089	8-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furnish, lay and test, (7-09.3(15)A, 7-09.5 & 9-30.1(1))	LF	206	\$41.00	\$8,446.00	0	\$0.00	0	\$0.00	206	\$8,446.00	0	\$0.00
W090	6-inch Ductile Iron Pipe, Push-On Joint, ANSI/AWWA, C151, Special Class Thickness No. 52, to furnish, lay and test, (7-09.3(15)A, 7-09.5 & 9-30.1(1))	LF	2,281	\$29.00	\$66,149.00	0	\$0.00	0	\$0.00	2281	\$66,149.00	0	\$0.00

EXHIBIT A
Project Breakdown Estimate

W091	16-inch x 6-inch Ductile Iron Cross, M.J., Installed	EA	1	\$1,125.00	\$1,125.00	0	\$0.00	0	\$0.00	1	\$1,125.00	0	\$0.00
W092	12-inch x 6-inch Ductile Iron Cross, M.J., Installed	EA	1	\$550.00	\$550.00	0	\$0.00	0	\$0.00	1	\$550.00	0	\$0.00
W093	8-inch x 6-inch Ductile Iron Tee, 3-B, M.J., installed (9-30.2(1))	EA	1	\$235.00	\$235.00	0	\$0.00	0	\$0.00	1	\$235.00	0	\$0.00
W094	6-inch Ductile Iron Tee, 3-B, M.J., installed (9-30.2(1))	EA	7	\$205.00	\$1,435.00	0	\$0.00	0	\$0.00	7	\$1,435.00	0	\$0.00
W095	16-inch Ductile Iron Ell, 45°, M.J., Installed	EA	2	\$550.00	\$1,100.00	0	\$0.00	0	\$0.00	2	\$1,100.00	0	\$0.00
W096	16-inch Ductile Iron Ell, 22 1/2°, M.J., Installed	EA	2	\$540.00	\$1,080.00	0	\$0.00	0	\$0.00	2	\$1,080.00	0	\$0.00
W097	8-inch Ductile Iron Ell, M.J., 45°, Installed, (7-09, & 9-30.2(1))	EA	2	\$180.00	\$360.00	0	\$0.00	0	\$0.00	2	\$360.00	0	\$0.00
W098	8-inch Ductile Iron Ell, M.J., 22 1/2°, Installed, (7-09, & 9-30.2(1))	EA	2	\$180.00	\$360.00	0	\$0.00	0	\$0.00	2	\$360.00	0	\$0.00
W099	6-inch Ductile Iron Ell, M.J., 45°, Installed, (7-09, & 9-30.2(1))	EA	4	\$150.00	\$600.00	0	\$0.00	0	\$0.00	4	\$600.00	0	\$0.00
W100	6-inch Ductile Iron Ell, M.J., 22 1/2°, Installed, (7-09, & 9-30.2(1))	EA	2	\$145.00	\$290.00	0	\$0.00	0	\$0.00	2	\$290.00	0	\$0.00
W101	6-inch Ductile Iron Ell, M.J., 11 1/4°, Installed, (7-09, & 9-30.2(1))	EA	1	\$150.00	\$150.00	0	\$0.00	0	\$0.00	1	\$150.00	0	\$0.00
W102	6-inch Ductile Iron Vertical Ell, M.J., 45°, Installed, (7-09, & 9-30.2(1))	EA	10	\$155.00	\$1,550.00	0	\$0.00	0	\$0.00	10	\$1,550.00	0	\$0.00
W103	6-inch Ductile Iron Vertical Ell, M.J., 22 1/2°, Installed, (7-09, & 9-30.2(1))	EA	4	\$145.00	\$580.00	0	\$0.00	0	\$0.00	4	\$580.00	0	\$0.00
W104	16-inch Ductile Iron Vertical Ell, M.J., 45°, Installed, (7-09, & 9-30.2(1))	EA	4	\$550.00	\$2,200.00	0	\$0.00	0	\$0.00	4	\$2,200.00	0	\$0.00
W105	6-inch Ductile Iron Solid Sleeve, M.J., Installed	EA	1	\$160.00	\$160.00	0	\$0.00	0	\$0.00	1	\$160.00	0	\$0.00
W106	16-inch Ductile Iron Solid Sleeve, M.J., Installed	EA	2	\$500.00	\$1,000.00	0	\$0.00	0	\$0.00	2	\$1,000.00	0	\$0.00
W107	12-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed (7-09.3(19)A, 7-09.5 & 9-30.2(7))	EA	2	\$550.00	\$1,100.00	0	\$0.00	0	\$0.00	2	\$1,100.00	0	\$0.00
W108	8-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I., installed (7-09.3(19)A, 7-09.5 & 9-30.2(7))	EA	2	\$450.00	\$900.00	0	\$0.00	0	\$0.00	2	\$900.00	0	\$0.00

EXHIBIT A
Project Breakdown Estimate

W109	6-inch Transition Coupling with 7-inch center ring, epoxy coating, and stainless steel bolts, C.I. to D.I.	EA	1	\$425.00	\$425.00	0	\$0.00	0	\$0.00	1	\$425.00	0	\$0.00
W110	18-inch Ductile Iron Cap, M.J., tapped 2", installed & removed	EA	1	\$390.00	\$390.00	0	\$0.00	0	\$0.00	1	\$390.00	0	\$0.00
W111	8-inch Ductile Iron Cap, M.J., tapped 2", installed and removed (9-30.2(1) & 7-09.5)	EA	4	\$160.00	\$640.00	0	\$0.00	0	\$0.00	4	\$640.00	0	\$0.00
W112	6-inch Ductile Iron Cap, M.J., tapped 2", installed and removed	EA	3	\$138.00	\$414.00	0	\$0.00	0	\$0.00	3	\$414.00	0	\$0.00
W113	Temporary 2-inch Blow-Off Assembly, installed and removed (Dwg. 17-56-1) (7-09.3(22) & 7-09.5)	EA	8	\$860.00	\$6,880.00	0	\$0.00	0	\$0.00	8	\$6,880.00	0	\$0.00
W114	18-inch Mechanical Joint Restraining Glands (7-14, 7-09.5 & 9-30.2(6))	EA	20	\$288.00	\$5,760.00	0	\$0.00	0	\$0.00	20	\$5,760.00	0	\$0.00
W115	12-inch Mechanical Joint Restraining Glands (7-14, 7-09.5 & 9-30.2(6))	EA	6	\$180.00	\$1,080.00	0	\$0.00	0	\$0.00	6	\$1,080.00	0	\$0.00
W116	8-inch Mechanical Joint Restraining Glands (7-14, 7-09.5 & 9-30.2(6))	EA	18	\$109.00	\$1,962.00	0	\$0.00	0	\$0.00	18	\$1,962.00	0	\$0.00
W117	6-inch Mechanical Joint Restraining Glands (7-14, 7-09.5 & 9-30.2(6))	EA	71	\$77.00	\$5,467.00	0	\$0.00	0	\$0.00	71	\$5,467.00	0	\$0.00
W118	6-inch Push on Joint Restraining Gasket, installed	EA	1	\$86.00	\$86.00	0	\$0.00	0	\$0.00	1	\$86.00	0	\$0.00
W119	Concrete Thrust Anchor, installed. (7-09.3(21) & 7-09.5)	EA	18	\$245.00	\$4,410.00	0	\$0.00	0	\$0.00	18	\$4,410.00	0	\$0.00
W120	Temporary Concrete Thrust Anchor, installed and removed (7-09.3(21) & 7-09.5)	EA	8	\$345.00	\$2,760.00	0	\$0.00	0	\$0.00	8	\$2,760.00	0	\$0.00
W121	Trench Compaction Test (as directed by the Inspector) (7-09.3(11) & 7-09.5)	EA	49	\$55.00	\$2,695.00	0	\$0.00	0	\$0.00	49	\$2,695.00	0	\$0.00
W123	12-inch B/F Valve, M.J., ANSI/AWWA, C504 with C.I. Valve Box, installed	EA	1	\$1,900.00	\$1,900.00	0	\$0.00	0	\$0.00	1	\$1,900.00	0	\$0.00
W124	8-inch Gate Valve, M.J., ANSI/AWWA, C509/515, with C.I. Valve Box (7-12 & 9.30.3)	FA	2	\$1,500.00	\$3,000.00	0	\$0.00	0	\$0.00	2	\$3,000.00	0	\$0.00
W125	6-inch Gate Valve, M.J., ANSI/AWWA, C509/515, with C.I. Valve Box (7-12 & 9.30.3)	EA	13	\$1,175.00	\$15,275.00	0	\$0.00	0	\$0.00	13	\$15,275.00	0	\$0.00

EXHIBIT A

Project Breakdown Estimate

W126	6-inch Hydrant, M.J., 4.5-ft bury, with 4-inch Tacoma Standard Threads & 5-inch Quick Coupling (7-14 & 9-30.5(2))	EA	4	\$2,950.00	\$11,800.00	0	\$0.00	0	\$0.00	4	\$11,800.00	0	\$0.00
W127	6-inch Hydrant, M.J., 5.0-ft bury, with 4-inch Tacoma Standard Threads & 5-inch Quick Coupling (7-14 & 9-30.5(2))	EA	1	\$3,000.00	\$3,000.00	0	\$0.00	0	\$0.00	1	\$3,000.00	0	\$0.00
W128	6-inch Hydrant, M.J., 5.5-ft bury, with 4-inch Tacoma Standard Threads & 5-inch Quick Coupling (7-14 & 9-30.5(2))	EA	1	\$3,050.00	\$3,050.00	0	\$0.00	0	\$0.00	1	\$3,050.00	0	\$0.00
W129	Removal and disposal of abandoned C.I. pipe, all sizes	LF	2,087	\$9.00	\$18,783.00	0	\$0.00	0	\$0.00	2087	\$18,783.00	0	\$0.00
W130	Street cleaning with Self-propelled Pickup and Vacuum Street Sweeper Equipment. (8-01.3(8))	HR	24	\$185.00	\$4,440.00	0	\$0.00	0	\$0.00	24	\$4,440.00	0	\$0.00
		AC	0	\$0.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Subtotal				\$906,820.40		\$454,584.25		\$164,059.60		\$470,313.00		\$667,889.55	

WATER ITEMS NOT INCLUDED IN PERCENT PARTNERSHIP CA

Item #	Bid Item Name	Unit	Total Proj Qty	Unit Price	Amount								
W122	Test Holes (7-09.3(6) & 7-09.5)	LS	1	\$22,000.00	\$22,000.00								
W131	Force Account (1-09.6)	FA	1	\$60,000.00	\$60,000.00								
		AC	0	\$0.00	\$0.00								
		AC	0	\$0.00	\$0.00								
		AC	0	\$0.00	\$0.00								
Subtotal				\$82,000.00									

Note: Items listed in this category should include any items that would normally be split up by percentage but that category should include any items that would normally be

ITEMS CALCULATED BY PERCENTAGE

SHARED BY PERCENTAGE (ALL)
SHARED BY PERCENTAGE (EXCLUDING WATER)

\$126,178.00 \$43,677.00 \$131,031.00 \$184,414.00
\$46,850.86 \$17,401.75 \$69,606.99

ITEMS CALCULATED BY QUANTITY

SHARED BY QUANTITY AND NON SHARED ITEMS INCLUDED IN PERCENT PARTNERSHIP CALCULATIONS
WATER ITEMS NOT INCLUDED IN PERCENT PARTNERSHIP CALCULATIONS

\$454,584.25 \$164,059.60 \$470,313.00 \$667,889.55
\$82,000.00

TOTAL \$627,613.11 \$225,138.35 \$683,344.00 \$921,910.54

EXHIBIT A

Project Breakdown Estimate

Percent Participation Calculation for Items that include all Utilities

Public Works	\$454,584.25	26%
Stormwater	\$164,059.60	9%
Water	\$470,313.00	27%
Wastewater	\$667,889.55	38%

TOTAL \$1,756,846.40 100.00%

Percent Participation Calculation for Items that Exclude Water

Public Works	\$454,584.25	35%
Stormwater	\$184,059.60	13%
Wastewater	\$667,889.55	52%

TOTAL \$1,286,533.40 100%

Total Base Bid

Public Works	\$627,613.11	PWK-00438-31
Stormwater	\$225,138.35	ENV-03031-03
Water	\$683,344.00	ENV-04023-05
Wastewater	\$921,910.54	WTR-00604-01-08

\$2,458,006.00 **THIS AMOUNT SHOULD MATCH THE ACTUAL BASE BID PRICE

Water Breakdown

SHARED BY PERCENTAGE	\$131,031.00
SHARED BY QUANTITIES	\$86,524.00
WATER TOTAL SHARED CONTRIBUTION	\$217,555.00
WATER ITEMS (Less Force Accounts)	\$383,789.00
WATER SUBTOTAL	\$601,344.00
Admin contribution (3%)	\$18,040.32
Force Accounts	\$82,000.00
WATER TOTAL	\$701,384.32



TO: Elizabeth A. Pauli, City Manager
FROM: Michael P. Slevin III, P.E., Environmental Services Director
John Burk, P.E., ES Science & Engineering Division Manager
Kurtis D. Kingsolver, P.E., Public Works Director/City Engineer
COPY: Shannon Wall, P.E., Tacoma Water Planning & Engineering Division Manager
City Manager, City Council, City Clerk, EIC Coordinator, LEAP Coordinator,
Kristy Beardemphl, P.E., Olivia Mathison, Project Manager, Ali Polda, P.E., Troy
Saghafi, P.E., Erik Sloan, Pavement Manager, and Doreen Klaaskate, Senior
Buyer, and Finance/Purchasing
SUBJECT: Stormwater, Wastewater & Water Main Replacement Project - S. Cushman Ave.
from S. 21st St. to S. 28th St.
Request for Bids Specification No. ES20-0003F
DATE: February 1, 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 Environmental Services Department recommends a contract be awarded to Northwest Cascade Inc, Puyallup, WA, in the amount of \$2,458,006.00, plus a 15 percent contingency for a project contract total of \$2,826,706.90, plus applicable taxes, budgeted from various departmental funds, to replace aging surface water, wastewater, and water distribution pipes in addition to roadway, curb ramp, and street tree improvements in S. Cushman Ave. from S. 21st St. to S. 28th St.

STRATEGIC POLICY PRIORITY:

- Strengthen and support a safe city with healthy residents.
- Assure outstanding stewardship of the natural and built environment.

This project will replace aging surface water, wastewater, and water distribution pipes. Roadways impacted by the proposed underground utility replacement work will be restored to existing or better condition. This work support a safe city with healthy residents, and assures outstanding stewardship of the natural and build environment of these neighborhoods.

BACKGROUND:

This project will replace approximately 2,160 linear feet of wastewater main, construct new 709 linear feet of surface water pipe, and replace approximately 2,090 linear feet of water main. In partnership with the Public Works Department and Tacoma Water, this project will also include street restoration, curb ramp installation, and street tree improvements. The work will occur in S. Cushman Ave. from S. 21st St. to S. 28th St.

ISSUE: The underground surface water, wastewater, and water mains in these various locations are reaching the end of their design life and are at risk of failure.



ALTERNATIVES: Taking no action would put the City at risk of future pipe failures, which may result in untreated wastewater overflowing into the Puget Sound and/or uncontrolled discharge of surface water that can result in flooding. Pipe rehabilitation was also considered, but the mains are not in adequate condition to do so.

COMPETITIVE SOLICITATION:

Request for Bids Specification No. ES20-0003F was opened February 9, 2021. The project was advertised in normal publications. Nine submittals were received.

Northwest Cascade Inc submitted a bid that resulted in the lowest evaluated submittal after consideration of 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>
Northwest Cascade Inc	Puyallup, WA	\$2,458,006.00
Reed Trucking & Excavating, Inc	Puyallup, WA	\$2,478,357.75
Pivetta Brothers Construction, Inc	Sumner, WA	\$2,533,286.18
R.L. Alia Company	Renton, WA	\$2,549,126.30
Pacific Civil & Infrastructure, Inc.	Sumner, WA	\$2,578,660.41
Rodarte Construction, Inc.	Auburn, WA	\$2,640,119.65
Miles Resources, LLC	Puyallup, WA	\$2,648,570.60
Pape & Sons Construction, Inc	Gig Harbor, WA	\$2,692,783.90
Ceccanti, Inc	Tacoma, WA	\$3,337,351.15

Pre-bid Estimate: \$2,695,361.00

The recommended award is 8.8 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 into Puget Sound and uncontrolled discharge of surface water that can result in flooding, resulting in a positive environmental impact.

EIC/LEAP COMPLIANCE: The recommended contractor is in compliance with the Equity in Contracting (EIC) Regulation requirements per memorandum dated February 11, 2021. The EIC requirements for this project are 1 percent for MBE, 4 percent for WBE and 7 percent for SBE. The EIC utilization levels of the recommended contractor, Northwest Cascade Inc, are approximately 5 percent for MBE, 5 percent for WBE, and 7 percent for SBE. The Local Employment and Apprenticeship Training Program (LEAP) requirements are 15 percent.



FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4300 ES Wastewater Fund	ENV-04023-05-04	5330100	\$1,060,197.12
4301 ES Surface Water Fund	ENV-03031-03-04	5330100	\$258,909.10
1085 PW Streets Initiative Fund	PWK-00438-31-03	5330100	\$721,755.08
4600 Tacoma Water Fund	WTR-00604-01-06	5330100	\$785,845.60
TOTAL			Up to \$2,826,706.90

REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
4300 ES Wastewater Fund	523900	Rate Revenues	\$1,060,197.12
4301 ES Surface Water Fund	521900	Rate Revenues	\$258,909.10
Streets Initiative Revenues	663020	Revenues	\$721,755.08
4600 Tacoma Water Fund	581200	Rate Revenues	\$785,845.60
TOTAL			\$2,826,706.90

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: \$2,826,706.90, plus applicable sales tax.

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 delegee)