



City of Tukwila Transportation and Infrastructure Committee

- ❖ Cynthia Delostrinos Johnson, Chair
- ❖ Verna Seal
- ❖ Kate Kruller

Distribution: C. Delostrinos Johnson V. Seal K. Kruller D. Quinn L. Humphrey H. Hash H. Ponnekanti H. Kirkland G. Labanara B. Still	City Attorney A. Youn Clerk File Copy 2 Extra Place pkt pdf on SharePoint: Z Trans & Infra Agendas e-mail cover to: F. Ayala, A. Le, C. O'Flaherty, A. Youn, B. Saxton, S. Norris, L. Humphrey
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AGENDA

MONDAY, MARCH 2, 2020 – 5:30 PM

FOSTER CONFERENCE ROOM
(6300 BUILDING, SUITE 100)

Item	Recommended Action	Page
1. PRESENTATIONS		
2. BUSINESS AGENDA		
a) Public Works Fleet & Facilities Building – (Hari Ponnekanti) Project Update and 30% Design Review	a) Forward for discussion to 03/23/2020 Committee of the Whole	Pg. 1
b) Surface Water Fund – (Mike Perfetti) Riverton Creek Flapgate Removal Project Amendment No. 5 for Additional Design	b) Forward to 03/16/2020 Regular Consent Agenda	Pg. 7
c) Surface Water Fund – (Ryan Larson) 2020 Annual Small Drainage Program Design Consultant Selection and Agreement	c) Forward to 03/16/2020 Regular Consent Agenda	Pg. 17
d) Neighborhood Traffic Calming Program – (Scott Bates) 2019 Year-End Report	d) Information only	Pg. 37
e) Walker and Bicyclist Safety Enhancement Projects (Bruce Linton) Grant Application(s)	e) Committee approval	Pg. 49
3. MISCELLANEOUS		
f) 2020 Transportation & Infrastructure Committee Work Plan (Laurel Humphrey)	f) Discussion only	Pg. 55
g) Topics for City Council Town Hall (Laurel Humphrey)	g) Discussion only	
	Future Agendas: <ul style="list-style-type: none"> • Concurrency Fees • PW Fleet & Facilities Update • S 196th - 200th Bridge Repair Closeout • TIB Rechannelization 	

Next Scheduled Meeting: Monday, March 16, 2020

 The City of Tukwila strives to accommodate individuals with disabilities.
Please contact the Public Works Department at **206-433-0179** for assistance.



INFORMATIONAL MEMORANDUM

TO: Transportation and Infrastructure Committee
FROM: Henry Hash, Public Works Director
BY: Hari Ponnekanti, Deputy PW Director
CC: Mayor Allan Ekberg
DATE: February 28, 2020
SUBJECT: Public Works Fleet & Facilities Building & Minkler Improvements
Project Nos. 91630601, 91930606
Project Update and 30% Design Review

ISSUE

Provide an update on the PW Fleet and Facilities tenant improvements (30% design review of schedule and cost estimate) and Minkler Shop Improvements.

BACKGROUND

On 12/02/19, Council approved the PW Fleet and Facilities tenant improvements project budget in the amount of \$9.5 million dollars and the Minkler Interim Improvements budget in the amount of \$500,000. The total budget for PW Fleet and Facilities Building is \$35,700,000.00 with funding split 50/50 with the General Fund and Water/Sewer/Surface Water Utilities.

DISCUSSION

PW Fleet and Facilities Tenant Improvement

1. SHKS Architect has reached the 30% design milestone. Please see the attached design drawing, project timeline schedule, and cost estimates. 30% design and cost estimates are within the range of the estimated budgets.

Minkler Shops Interim Improvements

2. Saybr's (JOC) is re-evaluating the project scope and cost estimates.

PHASE 1 FINANCIAL IMPACT

Table with 3 columns: Expenditures, 2019/2020 Budget. Rows include Land & Master Plan (2017-2019), SHKS Design Am No. 2, Geotechnical Services, Estimate - Soft Costs, Estimate - Construction, Funding - General Fund, Funding - Utilities, Estimate Minkler Interim Improvements, and Total.

DISCUSSION ONLY

Committee discussion only, forward 30% design update to the March 23, 2020 Committee of the Whole for full Council.

Attachments: Cost estimates
Design Drawing
Tentative Schedule
Master Plan

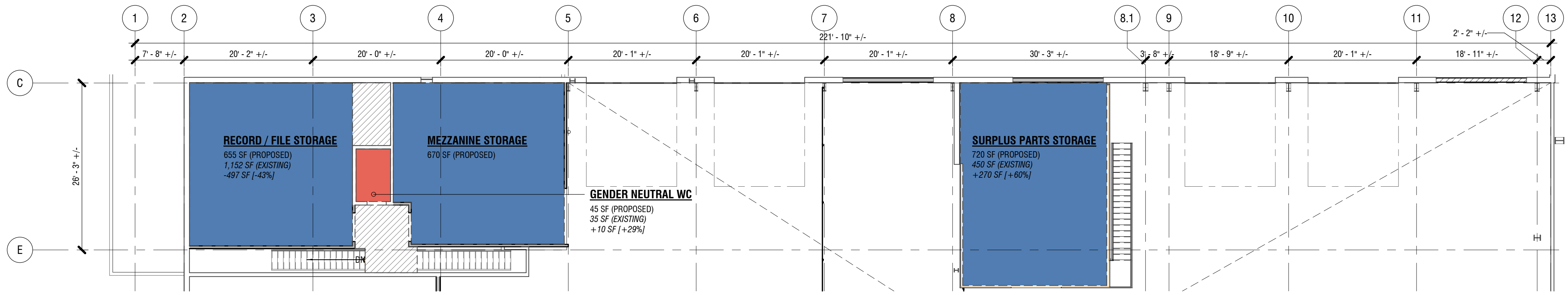
Tukwila Public Works Facility Fleets and Facilities Building - Phase 1

Overall Summary

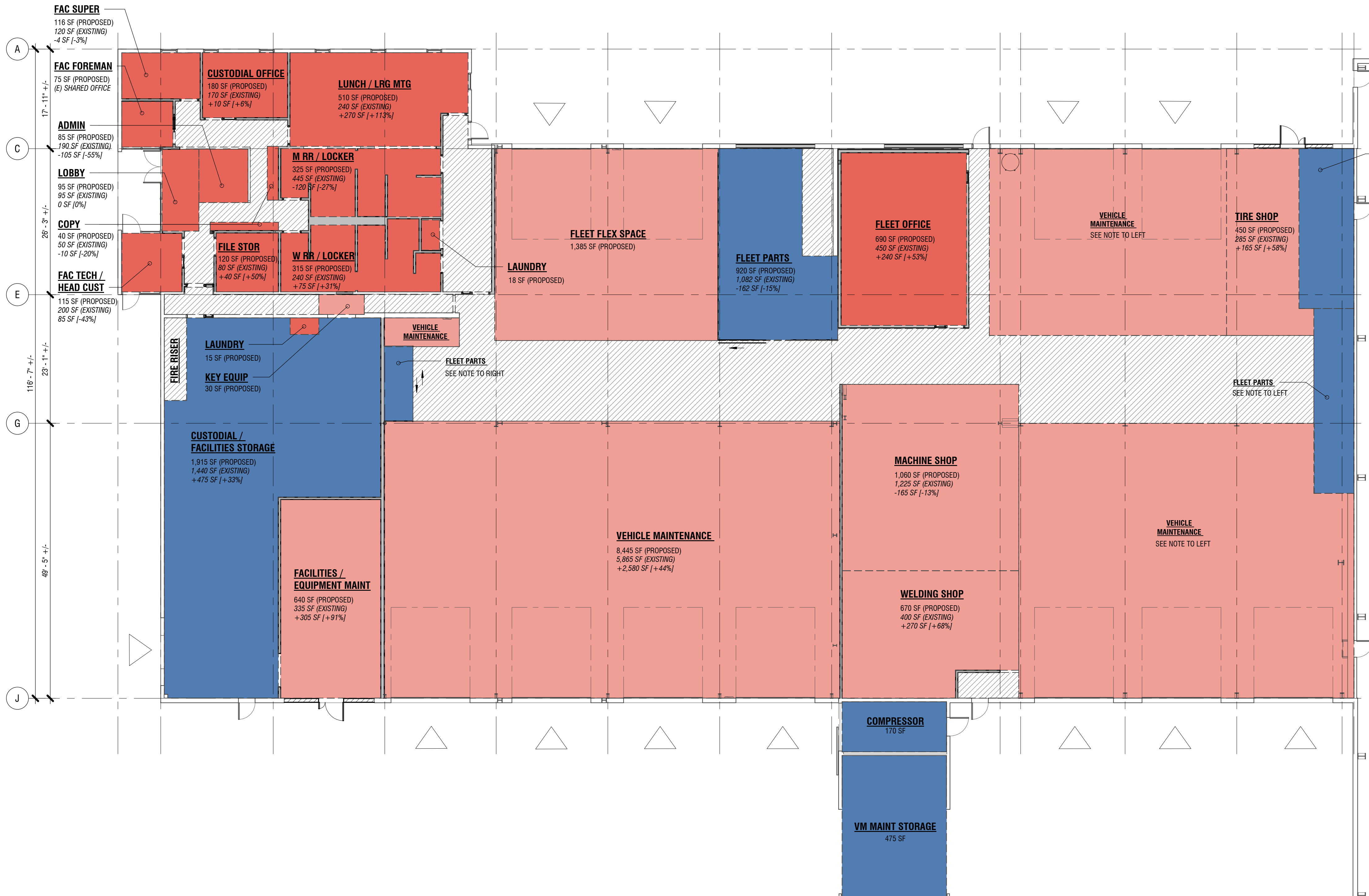
	SF	\$/SF	TOTAL
Phase 1 - Fleets and Facilities Renovation	43,200	104.73	4,524,329
TOTAL BUILDING CONSTRUCTION	43,200	104.73	4,524,329
Sitework - No Work Phase 1			NIC

ADD ALTS

Alternate 1: Trench drains, associated demo/trenching/infill/oil & water separator			35,885
Alternate 2: Emergency generator, concrete pad, bollads			382,852



2 SECOND FLOOR PLAN - PROGRAM AREA
3/32" = 1'-0"



1 FIRST FLOOR PLAN - PROGRAM AREA
3/32" = 1'-0"

FLEETS & FACILITIES BUILDING PROGRAM SUMMARY

	EXISTING AREA (GEORGE LONG)	PROPOSED AREA	DELTA
FLEETS	10,322 SF	15,003 SF	+4,681 SF [+45%]
FACILITIES / CUSTODIAL	2,345 SF	3,206 SF	+861 SF [+37%]
SHARED (MEETING / LOCKER ROOM / MEZZANINE STORAGE)	2,463 SF	2,740 SF	+277 SF [+11%]
CIRCULATION / MECHANICAL	1,744 SF	3,475 SF	+1,731 SF [99%]
TOTAL	16,874 SF	24,424 SF	+7,550 SF [+45%]

LEGEND

- VEHICLE ACCESS
- OFFICE + SUPPORT
- SHOPS
- STORAGE
- CIRCULATION / MECHANICAL

TUKWILA
PUBLIC WORKS
FLEETS &
FACILITIES
BUILDING

30% DESIGN

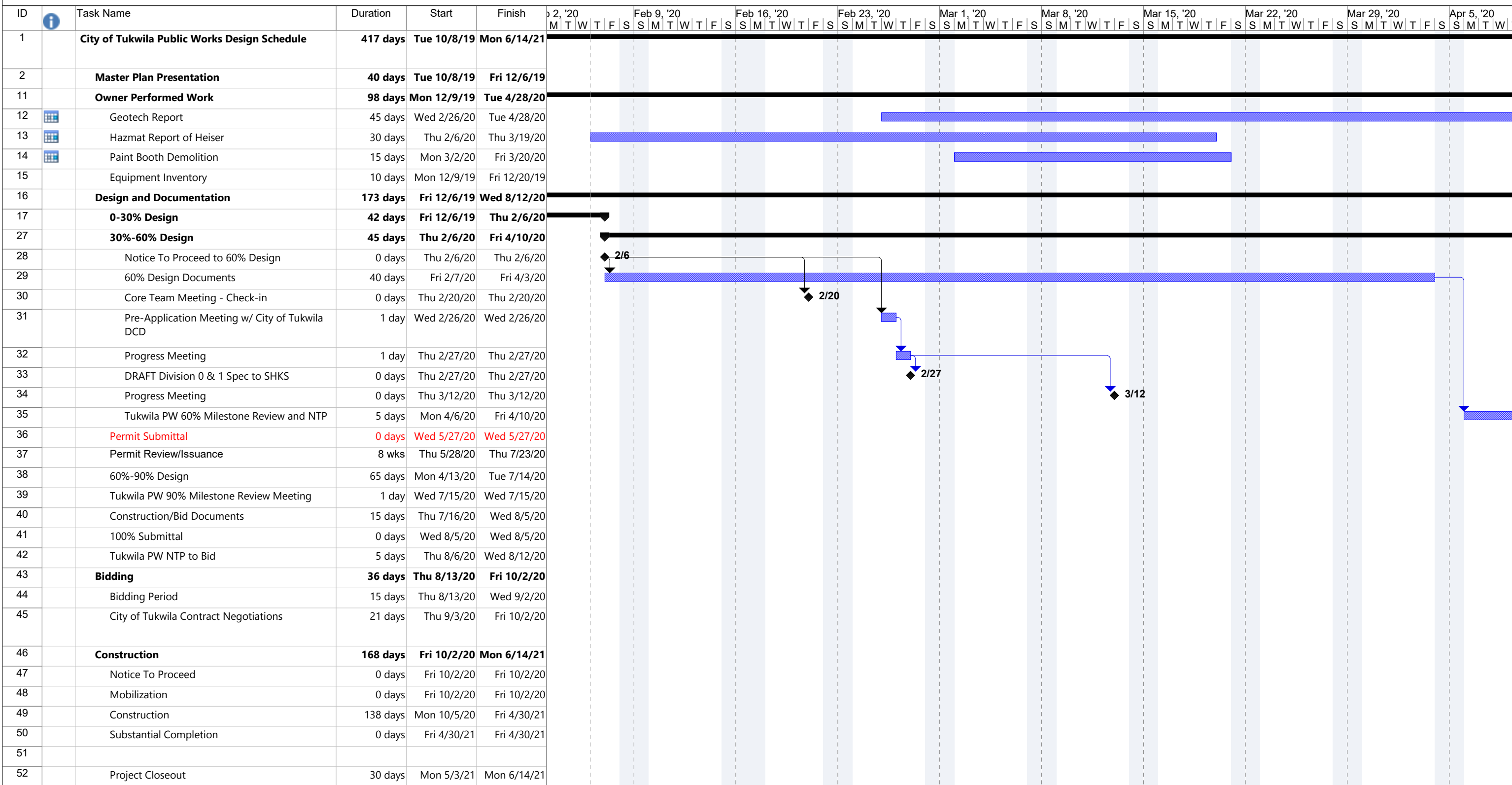
11210 TUKWILA INTERNATIONAL BLVD
TUKWILA, WA 98168

Drawn by: MF
Checked: AH
Date: 02/20/20
Scale: As indicated


Revisions:
No. Date Remarks

NOT FOR CONSTRUCTION

PROGRAM
COMPARISON
A2.7



Project: 20-0206-Design Schedule DD Date: Thu 2/6/20	Task		External Tasks		Inactive Summary		Start-only		Deadline	
	Split		External Milestone		Manual Task		Finish-only			
	Milestone		Inactive Task		Duration-only		External Tasks			
	Summary		Inactive Milestone		Manual Summary Rollup		External Milestone			
	Project Summary		Inactive Milestone		Manual Summary		Progress			

 TUKWILA PUBLIC WORKS FACILITY: MASTER PLAN



PROGRAM LEGEND

- ADMIN + SHOPS
- FLEET MAINTENANCE
- FLEET MAINTENANCE PARKING
- INTERIOR FLEET PARKING
- COVERED FLEET PARKING
- UNCOVERED FLEET PARKING
- DECANT + BRINE
- SPOILS
- COVERED STORAGE
- BULK BINS
- UNCOVERED STORAGE

ROM - ESTIMATED COSTS

CONSTRUCTION COSTS:

\$53,000,000

SOFT COSTS:

\$21,000,000

TOTAL PROJECT COST:

\$74,000,000



INFORMATIONAL MEMORANDUM

TO: Transportation and Infrastructure Committee
FROM: Henry Hash, Public Works Director
BY: Mike Perfetti, Habitat Project Manager
CC: Mayor Ekberg
DATE: February 28, 2020
SUBJECT: Surface Water Fund - Riverton Creek Flap Gate Removal Project
Project Number 99830103
Contract 17-070, Amendment No. 5

ISSUE

Approve Amendment No. 5 to Contract No. 17-070 with OTAK, Inc. for extra services and a time extension.

BACKGROUND

In May 2017, the City entered into a consultant agreement with OTAK for design and permitting services for the Riverton Creek Flap Gate Removal Project. This project will improve habitat conditions and increase salmonid accessibility to rearing habitat in Riverton Creek by removing two culverts and flap gates at the mouth of the creek and replacing a section of at-grade trail with a bridge over the restored open channel.

DISCUSSION

OTAK is nearing their contract expiration date and has expended approximately 99% of its budget with the following extra services needed to complete the design and obtain required permits:

- Additional permit support – The City, with limited support from OTAK, submitted the required JARPA and WSDOT permit applications. However, the City has received a considerable amount of technical comments, and has had to utilize, and will continue to need, OTAK’s multi-disciplinary expertise to coordinate with agencies and resolve permit comments.
Final design – This task is being amended primarily to enable design modifications in response to agency comments. The main changes pertain to the following: Tribal in-stream habitat comments related to the boulder drop structure, channel grading, and the large wood structures; WSDOT’s structural and site-related comments, including additional reinforcement of the SR 599 sheet pile wall and modifications to the soldier pile wall on the right bank of the creek.
Geotechnical investigations – GeoEngineers, OTAK’s subconsultant, will perform two additional borings along the right bank soldier pile wall.
Bid support services – New task
Contingency – A \$15,000 management reserve contingency is included in the event that limited and pre-authorized additional services may be required.

FISCAL IMPACT

Amendment No. 5 is for \$98,112.00, bringing the total contract amount to \$318,452.00, and a one-year contract extension to April 30,2021. To fund Amendment No. 5, the project will utilize the remaining design budget. A portion of these funds are eligible for grant reimbursement.

Table with 5 columns: Agreement, Budget Amt, Amount Spent, Amount Available. Rows include Current OTAK Contract, OTAK Amendment No. 5, and a total of \$318,452.00.

RECOMMENDATION

The Council is being asked to approve Amendment No. 5 with OTAK, Inc. for the Riverton Creek Flap Gate Removal Project in the amount of \$98,112.00 including a one-year time extension and consider this item at the March 16, 2020 Regular Meeting Consent Agenda.

Attachments: OTAK Supplemental Agreement No. 4 (2 copies)
2019-24 CIP p. 93



CONTRACT FOR SERVICES

Amendment #5

Between the City of Tukwila and OTAK, Inc.

That portion of Contract No. 17-070 between the City of Tukwila and OTAK, Inc. is hereby amended as follows:

Section 1: Scope of Services. Work under this contract shall be amended to include reimbursement for direct expenses and costs associated with the additional contract scope of services as described in Exhibit A-5, attached.

Section 3. Duration of Agreement; Time for Performance. This Agreement shall be in full force and effect for a period commencing upon execution and ending **April 30, 2021**, unless sooner terminated under the provisions hereinafter specified. Work under this Agreement shall commence upon written notice by the City to the Consultant to proceed. The Consultant shall perform all services and provide all work product required pursuant to this Agreement no later than **April 30, 2021** unless an extension of such time is granted in writing by the City.

Section 4: Payment. Payment is hereby changed to include an additional \$98,112.00 for this additional scope of services. See Exhibit B-5. The maximum amount payable under this contract as amended inclusive of all fees and other costs shall not exceed \$318,452.00 without express written modifications of the Agreement signed by the City.

All other provisions of the contract shall remain in full force and effect.

Dated this _____ day of _____, 2020.

CITY OF TUKWILA

CONTRACTOR

Allan Ekberg, Mayor

Printed Name: _____

ATTEST/AUTHENTICATED

APPROVED AS TO FORM

Christy O’Flaherty, MMC, City Clerk

Office of the City Attorney

Exhibit A-5
Scope of Work
Riverton Creek Flapgate Removal Project
City of Tukwila
February 6, 2020
Otak Project No. 32740

Amendment No. 5

The City has received comments from granting agencies, permitting agencies, and other stakeholders on the design for the Riverton Creek Flapgate Removal Project. At the request of the City, Otak provided support to provide responses and to modify the design as necessary to address the comments. A monitoring plan and a JARPA major modification have also been requested.

In addition, Otak’s geotechnical subconsultant has reviewed the revised channel design and they are recommending a second row of tiebacks in the existing west sheet pile wall. The additional tiebacks will also address comment from WSDOT. Additional boring investigations were also recommended to determine soil conditions supporting the proposed east soldier pile wall.

This scope provides additional services to incorporate the changes and additions into the current design and then advance the design to final bid documents for construction in 2020.

The following table provides a summary of the contract value for the project as modified by Amendment No. 5.

Contract	Authorized Fee
Original Contract	\$105,363.00
Amendment No. 1	\$39,993.00
Amendment No. 2	\$37,064.00
Amendment No. 3	\$0.00
Amendment No. 4	\$37,920.00
Amendment No. 5	\$98,112.00
Total	\$318,452

Scope and Budget Modifications

Task 1 – Project Management

The scope for this task is increased to provide project management and coordination for an extended project schedule for anticipated construction in 2020. This includes additional services for regular status update meetings with the City, project management, and preparation of project reports and invoices.

Task 4 – Permitting, Environmental Review and Coordination

4.1 JARPA Preparation

Otak will update the JARPA electronic drawing package initially prepared by the City including overall formatting and adjustment of scales and labels to comply with application requirements.

The Washington Department of Fish and Wildlife (WDFW) has requested a Major Modification to the original JARPA to incorporate design revisions made to address comments from the Army Corps of Engineers (ACOE) and Muckleshoot Indian Tribe (MIT). Otak will update the electronic JARPA drawing package with these design revisions and provide an electronic (.pdf) package.

The City will prepare the Major Modification Form.

4.7 Permitting Support

The level of effort originally estimated for developing response to permitting agency comments has been exceeded based on the comments received. The Task 4.7 scope is increased to provide additional services for continued permitting support.

Otak will review email correspondence with multiple permitting agencies and will participate in additional meetings with the City to review agency comments and discuss potential revisions to the design as necessary. Otak will provide written email responses to Department of Natural Resources (DNR) and the Muckleshoot Indian Tribe (MIT) to provide basis of design information and revised drawings to demonstrate how comments have been addressed.

Otak will provide additional services to support the permitting process with WSDOT include reviewing comments and providing written responses as requested by the City.

4.8 Monitoring Plan (New)

In response to MIT comments, this task provides details for providing a stream and fish passage monitoring plan for a tidal flapgate and culvert removal and pedestrian bridge installation project on

Riverton Creek, in the City of Tukwila, King County, Washington. The WDFW and ACOE require monitoring for culvert replacements with bridge structures and stream modifications to document proper conditions for fish passage.

This task involves preparation of a culvert and stream monitoring plan based on guidance from WDFW protocols for monitoring bridge installation and design from the Water Crossing Design Guidelines (WDFW 2013). Monitoring plan elements will include fish passage data collection: photographs of the pedestrian bridge and the surrounding banks, qualitative descriptive information, and the physical measurements for the bridge and nearby streambeds recommended by WDFW. The monitoring plan will include performance standards for bridge design and function and nearby streambeds appropriate to the project and the stream systems.

This task includes coordination with the City, WDFW, and the ACOE. This task will also include coordinating with regulatory agencies and tribal representatives on culvert and stream monitoring planning, goals, objectives, and plan specifics as needed.

Assumptions:

- Wetland mitigation and monitoring planning is not included in this scope.
- Wetland buffer mitigation and monitoring planning is not included in this scope.
- The culvert and stream monitoring plan will not include riparian or wetland planting plans.
- If needed, up to two (2) two-hour meetings with the City, WDFW, ACOE, and tribal representatives may be included in this task.

Task 5 – Final Design

The Task 5 work assumes that there will only be one-round of revisions to address WSDOT comments. If further revisions are required, an amendment will be submitted for authorization of contingency funds to address the comments.

5.1 Final Design and Plan Sheets

The following changes to the final design and plans will be incorporated at the 90%, 100%, and final bid document stages.

4 Creek Grading, Trail Restoration, and Bank Armoring Design

Otak will revise the plans and details to address comments from permitting agencies regarding reducing the boulder drop structure height, adjusting the channel profile and grading, and the size of the logs for woody debris structures.

Otak will update the structural calculations to incorporate the final geotechnical report recommendations and design data for submittal to WSDOT.

6 Retaining Wall Design

Otak will review the geotechnical soils data and recommendations for the east soldier pile wall that will be provided by the geotechnical subconsultant after supplemental explorations under Task 7. Otak will update structural calculations based on the soil properties at the location of the wall. The assumption is that the geotechnical findings and recommendations will require adjusting the pile length by up to 2'. Further revisions to the east soldier pile wall design, such as an increase in pile depth over 2' or the addition of tiebacks will require additional services and an amendment will be prepared to authorize contingency funds if requested by the City.

5.2 Specifications

Otak will revise the Division 2-9 Special Provisions and details to address comments from permitting agencies regarding reducing the size of the logs for woody debris structures.

Otak will also prepare special provisions for verifying the existing sheet pile wall depth per WSDOT comments.

5.3 Construction Cost Estimates

Otak will revise the quantities and cost estimate to address comments from permitting agencies regarding reducing the boulder drop structure height, adjusting the channel profile and grading, and the size of the logs for woody debris structures.

Otak will add construction cost information for verifying the existing sheet pile wall depth per WSDOT comments.

5.4 Preparation of the Contract Manual (New)

Per Amendment No. 1 scope, The City would be preparing the master Contract Manual including Division 1 of the Special Provisions. Otak would only prepare Special Provisions for Divisions 2-9 under Task 5.2 to be incorporated in the manual by the City.

This Amendment No. 5 scope adds new Task 5.4 for Otak to prepare the master Contract Manual including all Contract and Bid Forms, Amendments to the WSDOT Standard Specifications, and Appendices. Otak will incorporate Special Provisions provided by the City for items designed by the City such as the landscaping work. The City will provide current boilerplate Division 1 special provisions and bid form electronic files (.doc) that Otak will update and fill in information for this project. The City will also provide all permits to be included in the appendices.

Otak will submit the Contract Manual to the City for review at the 90%, 100%, and final bid document stages.

Otak will provide the final version of the Contract Manual for bid advertisement.

Task 7 – Geotechnical Analysis

This task includes a geotechnical evaluation by GeoEngineers, a subconsultant to Otak. Previous work under Phase 1 and 2 included review of existing data, explorations for the bridge foundation design, and preparation of a final geotechnical report with recommendations for the proposed project improvements.

This contract amendment includes scope and fee estimate for additional services to complete Phase 2 of the project. Our specific scope of additional services is presented below.

7.2 Supplementary Borings and Report Amendment (New)

Prepare a draft and final amendment to geotechnical design report for the proposed east soldier pile wall. Our specific scope of services for the design-level report amendment will include the following:

- Project vicinity map and site plan showing the location of the geotechnical exploration with
- Summary of subsurface soil and groundwater conditions.
- Seismic design recommendations based on the current International Building Code (IBC).
- Design recommendations for the proposed soldier pile wall

7.3. Design and Permitting Support (New)

Provide additional consultation to the design team including reviewing the plans and specifications for conformance to our geotechnical recommendations. If requested, this may also include developing responses to contractor questions during bidding.

Provide review of comments from permitting agencies pertaining to the geotechnical analysis and provide written responses.

Task 8 – Advertisement and Bid Support Services

Otak will provide responses to bidders' questions and assistance to the City, including:

1. Support for Bid Advertisement
2. Attend bid opening
3. Respond to contractor questions
4. Interpretation of contract documents during the bidding process.
5. Preparing addenda to the bid documents.

The City will coordinate the postings for bid advertisement.

Direct Expenses

Additional Reproduction costs for Final Contract Manual and Plans

Management Reserve Contingency

If directed by the City, consultant will provide services needed to assist the City for unforeseen tasks related to this project that were not specifically addressed in this scope of work. When requested by the City, the consultant will provide a scope and budget for the task identified by the City. The consultant will not proceed with the task until written authorization has been provided by the City. The allotted amount for this task is \$15,000.

Optional Task 9 - Construction Engineering Support Services (New)

Construction engineering support services may be provided through this contract for the Riverton Creek Flapgate Removal, if requested by City of Tukwila. If requested, Otak and/or GeoEngineers will provide a more detailed scope and level of effort (LOE) for a Supplement.

The engineering services during construction will address RFI responses, submittal review, site observation, construction meeting support, record drawing preparation, and other engineering construction services.

Exhibit B-5 - Fee Estimate

City of Tukwila - Riverton Creek Flapgate Removal Project

Otak, Inc., Project 32740

AMENDMENT NO. 5, February 6, 2020

Task	Description	Proj. Mgmt./Design		QA/QC	Structural		Environmental		Water Resource	CADD	Admin	Total Hours (Otak)	Total Fee by Task (Otak)	Otak Direct Costs	Geotech	Total Fee (Team)
		Sr. PIC / Sr. PM Civil	CE IX / Proj. Mgr.	CE X	CE IX	CE IV	Scientist V	Scientist III	Engineering Designer V	Engineering Tech IV	Project Coordinator				Geo Engineers	
Task 1	Project Management	2	16								8	26	\$ 3,837			\$ 3,837
	1.1 Project Management and Coordination	2	16								8	26	\$3,837			
Task 4	Permitting, Environmental Review and Coordination		26		12	20	24	32	20	6		140	\$ 16,588			\$ 16,588
	4.1 JARPA Preparation		6		4	6			8	6		30	\$3,736			
	4.7 Permitting Support		18		8	14	8		12			60	\$8,381			
	4.8 Monitoring Plan		2				16	32				50	\$4,471			
Task 5	Final Design	4	64	14	48	58	4		69	16	26	303	\$ 40,749			\$ 40,749
	5.1 Final Design and Plan Sheets															
	1. 90% Plans	4	20		20	40	2		40	12		138	\$17,929			
	2. 100% Plans		2		2	4				4		12	\$1,461			
	3. Final PSE Bid Set		2		2	4						8	\$1,138			
	5.2 Specifications															
	1. 90% Specs		16	4	8	2	2		9		2	43	\$6,418			
	2. 100% Specs		2		2						2	6	\$857			
	3. Final PSE Bid Set															
	5.3 Construction Cost Estimates															
	1. 90% Cost Estimate		6		4	4			8			22	\$3,020			
	2. 100% Cost Estimate		2		2							4	\$677			
	3. Final PSE Bid Set															
	5.4 Contract Manual															
	1. 90% Contract Manual		8	8	8	4			8		8	44	\$6,200			
	2. 100% Contract Manual		4						4		8	16	\$1,819			
	3. Final Contract Manual		2	2							6	10	\$1,230			
Task 7	Geotechnical Analysis												\$ -		\$17,000	\$ 17,000
	7.2 Supplementary Borings and Report Amendment														\$13,000	
	7.3 Design and Permitting Support														\$4,000	
Task 8	Advertisement and Bid Support Services		10	2	6	4	4		2		4	32	\$ 4,638			\$ 4,638
Project Total Hours		6	116	16	66	82	32	32	91	22	38	501				
Billing Rate (including OH and Profit)		\$234.60	\$165.53	\$179.92	\$172.72	\$115.15	\$136.74	\$61.00	\$109.40	\$80.84	\$89.82					
Total Labor Cost, including Overhead and Profit		\$ 1,408	\$ 19,202	\$ 2,879	\$ 11,400	\$ 9,443	\$ 4,376	\$ 1,952	\$ 9,956	\$ 1,779	\$ 3,414		\$ 65,812		\$ 17,000	\$ 82,812
Direct Expenses														\$ 300		\$ 300
Management Reserve Contingency																\$ 15,000
Project Total (Amendment No. 5)																\$ 98,112

CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Riverton Creek Flap Gate Removal

Project No. 99830103

DESCRIPTION: Remove two culverts and flap gates at Duwamish River; install pipe arch, create open channel confluence, install trail bridge over new channel, restore/revegetate 200 feet of creek channel and 450 ft. of pond shoreline.

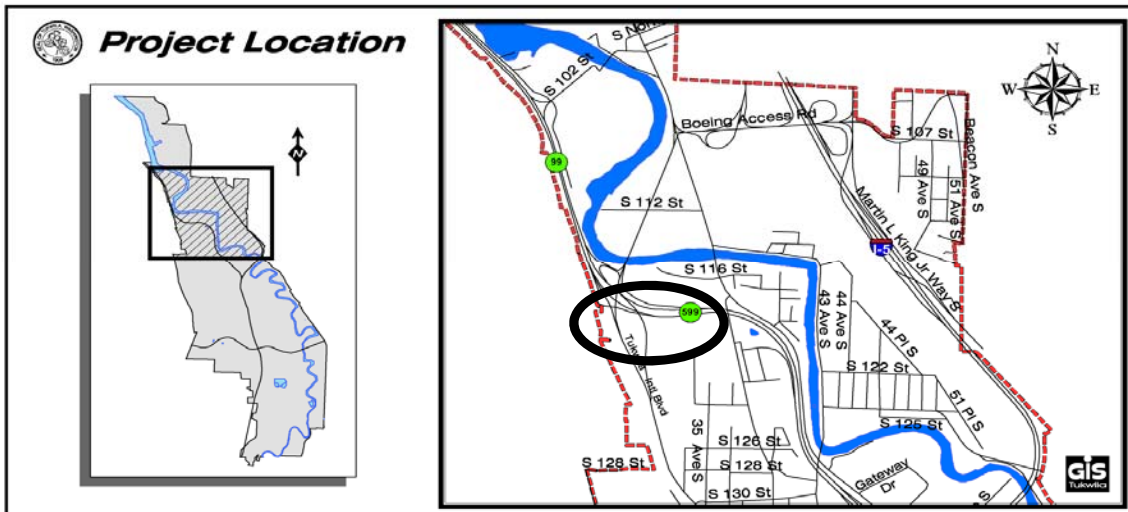
JUSTIFICATION: Increase available salmonid rearing habitat and increase flood refuge in lower Duwamish River. Improve fish access to Riverton Creek and enhance salmon rearing and resting area.

STATUS: Design underway in 2018. Construction grant of \$846k from WA State RCO.

MAINT. IMPACT: Expected to increase maintenance.

COMMENT: Project used as mitigation for East Marginal Way Pipe Replacement Project and HPA Control #133763-1 requires work to be completed by June 11, 2019, which will need to be extended.

FINANCIAL (in \$000's)	Through		Estimated							BEYOND	TOTAL
	2017	2018	2019	2020	2021	2022	2023	2024			
EXPENSES											
Design	204	100	40								344
Land (R/W)											0
Monitoring				15	15	15	15	15	15	15	90
Const. Mgmt.			184								184
Construction			918								918
TOTAL EXPENSES	204	100	1,142	15	15	15	15	15	15	15	1,536
FUND SOURCES											
Awarded Grant	72		847								919
Proposed Grant											0
Mitigation Actual											0
Mitigation Expected											0
Utility Revenue	132	100	295	15	15	15	15	15	15	15	617
TOTAL SOURCES	204	100	1,142	15	15	15	15	15	15	15	1,536





INFORMATIONAL MEMORANDUM

TO: Transportation and Infrastructure Committee
FROM: Henry Hash, Public Works Director *H.H.*
BY: Ryan Larson, Senior Program Manager
CC: Mayor Allan Ekberg
DATE: February 28, 2020
SUBJECT: Surface Water Fund - 2020 Annual Small Drainage Program
Project No. 92041201
Design Consultant Selection and Agreement

ISSUE

Approve a contract with KPG, Inc. (KPG) to design the 2020 Annual Small Drainage Program.

BACKGROUND

The Annual Small Drainage Program repairs and installs needed surface water infrastructure that is identified through maintenance activities as well as citizen complaints. For the 2020 Annual Small Drainage Program, staff is proposing the design of six projects for possible construction in 2020.

DISCUSSION

The current MRSC Consultant Roster was reviewed and three firms were short-listed to provide design services. The firms were KPG, PACE, and Otak. The Summary of Qualifications for project design and construction management were evaluated from each firm and KPG was selected as the firm that best met the requirements. KPG has designed the Annual Small Drainage Program since 1991 and Public Works continues to be very satisfied with their work. KPG also worked on the 2019 Annual Small Drainage Program and is knowledgeable of the sites.

Public Works staff reviewed the list of known system deficiencies and compiled a list of six projects for design in 2020. One of the projects was substantially designed in 2018, but not constructed due to permitting. The design projects are:

1. 40th Ave S. Drainage System
2. Klickitat Dr. at 53rd Ave. S. (Replace Pipe)
3. S. 124th St. from 42nd Ave to 45th Ave
4. 57th Ave S at Golden Nugget (Rebuild CB)
5. 42nd Ave S. Drainage Structure - Permitting
6. 48th Ave S. from S 124th to S. 122nd

FINANCIAL IMPACT

KPG's proposed fee for the 2020 Small Drainage Program's design contract is \$92,472.00 and the 2020 design budget is \$80,000. It is proposed that the funding shortfall of \$12,472.00 come from the available construction funds.

RECOMMENDATION

Council is being asked to approve the design consultant agreement with KPG, Inc. in the amount of \$92,472.00 for the 2020 Small Drainage Program and consider this item on the Consent Agenda at the March 16, 2020 Regular Meeting.

ATTACHMENTS

- Qualification Review
- Page 88, 2019 CIP
- KPG Consultant Agreement
- 2020 Small Drainage Project List

2020 Small Drainage - Qualification Review (1= Top Choice, 2 = Second Choice, 3 = Third Choice)	KPG	PACE	OTAK
Relevant Project Experience	1	2	2
Experience with HPA/Creek Work	1	2	1
Small Scale Projects	1	1	2
Ability to keep project on schedule and within Budget	1	1	2
Project Team Availability of Key Team Members	2	2	2
Knowledge of City , Plan Process, Drainage System	1	2	2
Construction Engineering Experience	1	1	1
TOTALS (Lowest Total Score is best)	8	11	12
Firm Rank (1 - 3, Lowest = Best)	1	2	3

CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: Annual Small Drainage Program

Project No. 9XX41201

DESCRIPTION: Select, design, and construct small drainage projects throughout the City.

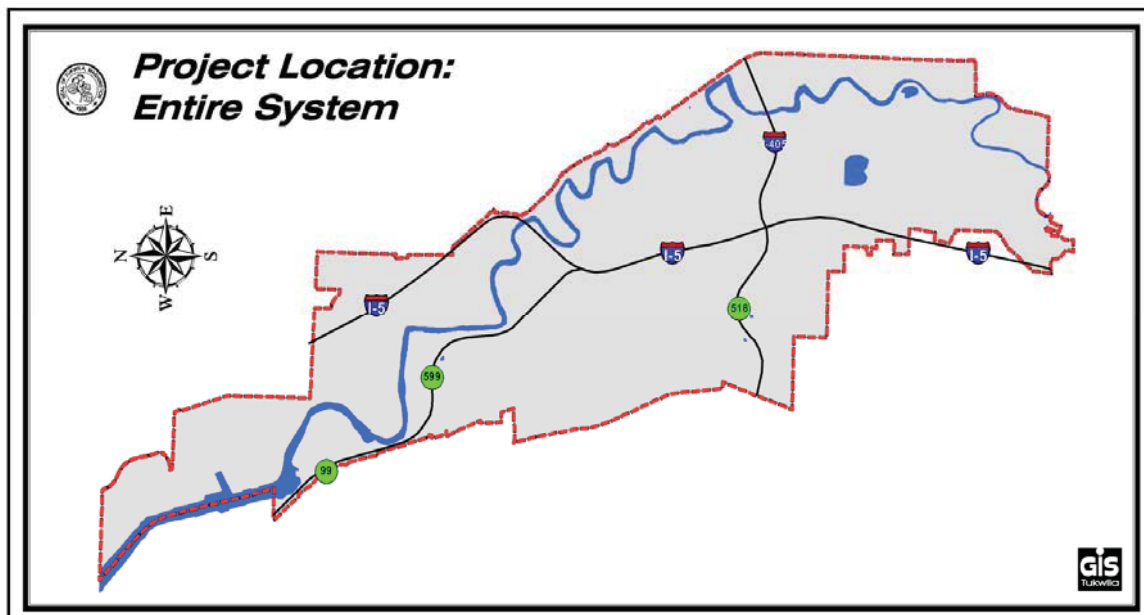
JUSTIFICATION: Provide drainage corrections for existing/ongoing drainage problems throughout the City, including culvert replacements, drain extensions, and pavement upgrades.

STATUS: Projects for this annual program are taken from Small Drainage Project List.

MAINT. IMPACT: Reduces maintenance.

COMMENT: Ongoing project, only one year shown in first column. Construction expenses may occur over two calendar years.

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design	50	80	80	80	80	80	80	80	80	690
Streamgages/Monitor	31	35	35	35	36	36	36	36	40	320
Const. Mgmt.	90	45	80	80	80	80	80	80	80	695
Construction	448	600	515	515	514	513	514	514	513	4,646
TOTAL EXPENSES	619	760	710	710	710	709	710	710	713	6,351
FUND SOURCES										
Awarded Grant										0
Proposed Grant		65								65
Mitigation Actual										0
Mitigation Expected										0
Utility Revenue	619	695	710	710	710	709	710	710	713	6,286
TOTAL SOURCES	619	760	710	710	710	709	710	710	713	6,351





**CONSULTANT AGREEMENT FOR
ENGINEERING SERVICES**

THIS AGREEMENT is entered into between the City of Tukwila, Washington, hereinafter referred to as “the City”, and KPG, Inc., hereinafter referred to as “the Consultant”, in consideration of the mutual benefits, terms, and conditions hereinafter specified.

1. **Project Designation.** The Consultant is retained by the City to perform engineering services in connection with the project titled ‘2020 Small Drainage Program’.
2. **Scope of Services.** The Consultant agrees to perform the services, identified on Exhibit “A” attached hereto, including the provision of all labor, materials, equipment and supplies.
3. **Duration of Agreement; Time for Performance.** This Agreement shall be in full force and effect for a period commencing upon execution and ending December 31, 2020, unless sooner terminated under the provisions hereinafter specified. Work under this Agreement shall commence upon written notice by the City to the Consultant to proceed. The Consultant shall perform all services and provide all work product required pursuant to this Agreement no later than December 31, 2020 unless an extension of such time is granted in writing by the City.
4. **Payment.** The Consultant shall be paid by the City for completed work and for services rendered under this Agreement as follows:
 - A. Payment for the work provided by the Consultant shall be made as provided on Exhibit “B” attached hereto, provided that the total amount of payment to the Consultant shall not exceed \$92,472.00 without express written modification of the Agreement signed by the City.
 - B. The Consultant may submit vouchers to the City once per month during the progress of the work for partial payment for that portion of the project completed to date. Such vouchers will be checked by the City and, upon approval thereof, payment shall be made to the Consultant in the amount approved.
 - C. Final payment of any balance due the Consultant of the total contract price earned will be made promptly upon its ascertainment and verification by the City after the completion of the work under this Agreement and its acceptance by the City.
 - D. Payment as provided in this section shall be full compensation for work performed, services rendered, and for all materials, supplies, equipment and incidentals necessary to complete the work.
 - E. The Consultant’s records and accounts pertaining to this Agreement are to be kept available for inspection by representatives of the City and the state of Washington for a period of three (3) years after final payments. Copies shall be made available upon request.

5. **Ownership and Use of Documents.** All documents, drawings, specifications and other materials produced by the Consultant in connection with the services rendered under this Agreement shall be the property of the City whether the project for which they are made is executed or not. The Consultant shall be permitted to retain copies, including reproducible copies, of drawings and specifications for information, reference and use in connection with the Consultant's endeavors. The Consultant shall not be responsible for any use of the said documents, drawings, specifications or other materials by the City on any project other than the project specified in this Agreement.
6. **Compliance with Laws.** The Consultant shall, in performing the services contemplated by this Agreement, faithfully observe and comply with all federal, state, and local laws, ordinances and regulations, applicable to the services rendered under this Agreement.
7. **Indemnification.** The Consultant shall defend, indemnify and hold the City, its officers, officials, employees and volunteers harmless from any and all claims, injuries, damages, losses or suits including attorney fees, arising out of or resulting from the acts, errors or omissions of the Consultant in performance of this Agreement, except for injuries and damages caused by the sole negligence of the City.

Should a court of competent jurisdiction determine that this Agreement is subject to RCW 4.24.115, then, in the event of liability for damages arising out of bodily injury to persons or damages to property caused by or resulting from the concurrent negligence of the Consultant and the City, its officers, officials, employees, and volunteers, the Consultant's liability hereunder shall be only to the extent of the Consultant's negligence. It is further specifically and expressly understood that the indemnification provided herein constitutes the Consultant's waiver of immunity under Industrial Insurance, Title 51 RCW, solely for the purposes of this indemnification. This waiver has been mutually negotiated by the parties. The provisions of this section shall survive the expiration or termination of this Agreement.

8. **Insurance.** The Consultant shall procure and maintain for the duration of the Agreement, insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Consultant, its agents, representatives, or employees. Consultant's maintenance of insurance as required by the agreement shall not be construed to limit the liability of the Consultant to the coverage provided by such insurance, or otherwise limit the City's recourse to any remedy available at law or in equity.

A. **Minimum Amounts and Scope of Insurance.** Consultant shall obtain insurance of the types and with the limits described below:

1. **Automobile Liability** insurance with a minimum combined single limit for bodily injury and property damage of \$1,000,000 per accident. Automobile Liability insurance shall cover all owned, non-owned, hired and leased vehicles. Coverage shall be written on Insurance Services Office (ISO) form CA 00 01 or a substitute form providing equivalent liability coverage. If necessary, the policy shall be endorsed to provide contractual liability coverage.

2. Commercial General Liability insurance with limits no less than \$1,000,000 each occurrence, \$2,000,000 general aggregate. Commercial General Liability insurance shall be written on ISO occurrence form CG 00 01 and shall cover liability arising from premises, operations, independent contractors and personal injury and advertising injury. The City shall be named as an insured under the Consultant's Commercial General Liability insurance policy with respect to the work performed for the City.
 3. Workers' Compensation coverage as required by the Industrial Insurance laws of the State of Washington.
 4. Professional Liability with limits no less than \$1,000,000 per claim and \$1,000,000 policy aggregate limit. Professional Liability insurance shall be appropriate to the Consultant's profession.
- B. Other Insurance Provision.** The Consultant's Automobile Liability and Commercial General Liability insurance policies are to contain, or be endorsed to contain that they shall be primary insurance with respect to the City. Any Insurance, self-insurance, or insurance pool coverage maintained by the City shall be excess of the Consultant's insurance and shall not be contributed or combined with it.
- C. Acceptability of Insurers.** Insurance is to be placed with insurers with a current A.M. Best rating of not less than A:VII.
- D. Verification of Coverage.** Consultant shall furnish the City with original certificates and a copy of the amendatory endorsements, including but not necessarily limited to the additional insured endorsement, evidencing the insurance requirements of the Consultant before commencement of the work. Certificates of coverage and endorsements as required by this section shall be delivered to the City within fifteen (15) days of execution of this Agreement.
- E. Notice of Cancellation.** The Consultant shall provide the City with written notice of any policy cancellation, within two business days of their receipt of such notice.
- F. Failure to Maintain Insurance.** Failure on the part of the Consultant to maintain the insurance as required shall constitute a material breach of contract, upon which the City may, after giving five business days notice to the Consultant to correct the breach, immediately terminate the contract or, at its discretion, procure or renew such insurance and pay any and all premiums in connection therewith, with any sums so expended to be repaid to the City on demand, or at the sole discretion of the City, offset against funds due the Consultant from the City.
9. **Independent Contractor.** The Consultant and the City agree that the Consultant is an independent contractor with respect to the services provided pursuant to this Agreement. Nothing in this Agreement shall be considered to create the relationship of employer and employee between the parties hereto. Neither the Consultant nor any employee of the Consultant shall be entitled to any benefits accorded City employees by virtue of the services provided under this Agreement. The City shall not be responsible for withholding or otherwise deducting federal income tax or social security or for contributing to the state industrial insurance program, otherwise assuming the duties of an employer with respect to the Consultant, or any employee of the Consultant.

10. **Covenant Against Contingent Fees.** The Consultant warrants that he has not employed or retained any company or person, other than a bonafide employee working solely for the Consultant, to solicit or secure this contract, and that he has not paid or agreed to pay any company or person, other than a bonafide employee working solely for the Consultant, any fee, commission, percentage, brokerage fee, gifts, or any other consideration contingent upon or resulting from the award or making of this contract. For breach or violation of this warrant, the City shall have the right to annul this contract without liability, or in its discretion to deduct from the contract price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift, or contingent fee.
11. **Discrimination Prohibited.** The Consultant, with regard to the work performed by it under this Agreement, will not discriminate on the grounds of race, religion, creed, color, national origin, age, veteran status, sex, sexual orientation, gender identity, marital status, political affiliation or the presence of any disability in the selection and retention of employees or procurement of materials or supplies.
12. **Assignment.** The Consultant shall not sublet or assign any of the services covered by this Agreement without the express written consent of the City.
13. **Non-Waiver.** Waiver by the City of any provision of this Agreement or any time limitation provided for in this Agreement shall not constitute a waiver of any other provision.
14. **Termination.**
 - A. The City reserves the right to terminate this Agreement at any time by giving ten (10) days written notice to the Consultant.
 - B. In the event of the death of a member, partner or officer of the Consultant, or any of its supervisory personnel assigned to the project, the surviving members of the Consultant hereby agree to complete the work under the terms of this Agreement, if requested to do so by the City. This section shall not be a bar to renegotiations of this Agreement between surviving members of the Consultant and the City, if the City so chooses.
15. **Applicable Law; Venue; Attorney's Fees.** This Agreement shall be subject to, and the Consultant shall at all times comply with, all applicable federal, state and local laws, regulations, and rules, including the provisions of the City of Tukwila Municipal Code and ordinances of the City of Tukwila. In the event any suit, arbitration, or other proceeding is instituted to enforce any term of this Agreement, the parties specifically understand and agree that venue shall be properly laid in King County, Washington. The prevailing party in any such action shall be entitled to its attorney's fees and costs of suit. Venue for any action arising from or related to this Agreement shall be exclusively in King County Superior Court.
16. **Severability and Survival.** If any term, condition or provision of this Agreement is declared void or unenforceable or limited in its application or effect, such event shall not affect any other provisions hereof and all other provisions shall remain fully enforceable. The provisions of this Agreement, which by their sense and context are reasonably intended to survive the completion, expiration or cancellation of this Agreement, shall survive termination of this Agreement.

17. **Notices.** Notices to the City of Tukwila shall be sent to the following address:

City Clerk
City of Tukwila
6200 Southcenter Boulevard
Tukwila, WA 98188

Notices to Consultant shall be sent to the following address:

KPG, P.S.
3131 Elliott Avenue, Suite 400
Seattle, WA 98121

18. **Entire Agreement; Modification.** This Agreement, together with attachments or addenda, represents the entire and integrated Agreement between the City and the Consultant and supersedes all prior negotiations, representations, or agreements written or oral. No amendment or modification of this Agreement shall be of any force or effect unless it is in writing and signed by the parties.

DATED this _____ day of _____, 2020.

CITY OF TUKWILA

CONSULTANT

Mayor, Allan Ekberg

By:_____

Printed Name:Nelson Davis, KPG

Title: Principal

Attest/Authenticated:

Approved as to Form:

City Clerk, Christy O’Flaherty

Office of the City Attorney

EXHIBIT A

City of Tukwila

2020 Small Drainage Program

Scope of Work

February 13, 2020

PROJECT DESCRIPTION

The Consultant shall prepare final Plans, Specifications and Estimates for the 2020 Small Drainage Program. The project will include the following sites:

Site 1: 13601 40th Ave S Drainage System

Replace and install new storm drain system approximately 90' of 18" CMP and 80' of 12" concrete pipe along with three drainage structures. Tie into the existing system at 40th Ave S. This site may require an HPA, SEPA and City of Tukwila Special Permissions Permit with project limits within Type 3 Watercourse Buffer.

Site 2: Klickitat Dr. @ 53rd Ave S Drainage System

Replace and install new storm drain system approximately 180' of 18" CMP.. Tie into the existing system along Klickitat Dr. This site may require an HPA, SEPA and City of Tukwila Special Permissions Permit with project limits within Type 3 Watercourse Buffer.

Site 3: S 124th St from 42nd Ave to 45th Ave Drainage System

Install storm drain system approximately 750' on the northside of S 124th St. Tie into the existing system.

Sites 4: 57th Ave S @ Golden Nugget Drainage Structure

Bring Type II Manhole up to grade by removing approximately 8' of existing 24" riser rings. Add 48" barrel sections and new manhole ring and cover.

Sites 5: 42nd Ave S Drainage Structure

Install a new drainage structure with bird cage inlet to reduce plugging and overflows onto 42nd Ave S. This site may require an HPA and SEPA. Project was designed as part of the 2019 Small Drainage Program, but there were insufficient funds for construction and permitting had not been completed.

Sites 6: 48th Ave S from S 124th St to S 122nd St Drainage System

Install storm drain system approximately 820' starting the northside of S 124th St and down 48th Ave S. Tie into the existing system along S 122nd St.

The Consultant shall provide necessary surveying, project design, quantity and cost estimates, and utility coordination required to complete final bid documents. It is anticipated that sites will be bid as a single bid package for the 2020 Small Drainage Program as budget or other considerations allow.

The Consultant shall provide surveyed base maps with horizontal utility locations, or base maps created from field measurements, ortho-photography, and GIS data as necessary for each site. If necessary, surveyed base maps will include right-of-way line work based on available public records. Project horizontal and vertical datum will be NAD83/2011 and NAVD88 respectively on all sites.

The Consultant shall prepare an easement document, legal description, and exhibit for Site 5. The City will perform negotiations to obtain signature and record the easement.

The Consultant shall prepare a SEPA checklist, HPA application, and Special Permissions Permit where required. No additional permits are anticipated.

It is the Consultants understanding that none of the 2020 Small Drainage Program sites require biological assessments, additional permits beyond those listed, wetland delineations, geotechnical review, detention facilities, or water quality treatment facilities. The budget assumes a straightforward approval process with no special studies or extensive coordination. Aside from Site 5, all work will be completed within City rights of way or easements and no easement acquisition is anticipated.

SCOPE OF WORK

TASK 1 – 2020 Small Drainage Program Design

1.1 MANAGEMENT/COORDINATION/ADMINISTRATION

- The Consultant shall provide continuous project management and administration for the duration of the Project. (Estimate 8 months).
- Hold project coordination meetings with the City to update progress and review submittals. Assume (3) meetings.
- The Consultant shall provide monthly status reports and billings.
- The Consultant shall provide independent QA/QC reviews by senior in-house staff of all deliverables prior to submittal to the City.

1.2 Previously obtained mapping for Site 5 will be utilized. The Consultant shall prepare a topographic base map for Sites 1,2,3,4, and 6.

1.3 For Site 1, the Consultant shall prepare 50%, 90%, and final design.

1.4 For Site 2, the Consultant shall prepare 50%, 90%, and final design.

1.5 For Site 3, the Consultant shall prepare 50%, 90%, and final design.

1.6 For Site 4, the Consultant shall prepare 50%, 90%, and final design.

1.7 The Consultant has previously prepared designs for Site 5. Minor updates and revisions are anticipated after WDFW permitting review and will be included in the Bid Documents.

1.8 For Site 6, the Consultant shall prepare 50%, 90%, and final design.

- 1.9 The Consultant shall prepare 50% & 90% plan review submittals for all sites.
- 1.10 The Consultant shall prepare a SEPA checklist for the 2020 Small Drainage Program containing information on all sites requiring SEPA review. This is anticipated to be Sites 1,2, and 5. Site 5 draft SEPA was previously prepared, but not submitted during the 2019 SDP Design.
- 1.11 The Consultant shall prepare HPA Permit Application and coordinate with Washington Department of Fish and Wildlife to obtain HPA where required. This is anticipated to be Sites 1,2, and 5.
- 1.12 The Consultant shall prepare City Special Permissions Permit for the 2020 Small Drainage Program containing information on all sites requiring Special City review. This is anticipated to be Sites 1 and 2 where project site location is within existing Type 3 watercourse Stream buffer.
- 1.13 The Consultant shall prepare the Contract Specification per 2020 WSDOT Standard Specifications for the 90% Review Submittal and the Bid Documents.
- 1.14 The Consultant shall calculate quantities and prepare Engineers Estimate of Probable Construction Cost for each review submittal and the Bid Documents.
- 1.15 The Consultant shall distribute 50% review submittals to franchise utility owners to identify potential conflicts within the Project limits.
- 1.16 The Consultant shall prepare final Bid Documents for the proposed improvements including the following:
 - Plans shall be prepared with such provisions in such detail as to permit field layout and construction within a degree of accuracy acceptable to the City and per industry standards.
 - Details will be prepared for items not available as standard details from the City, State, or WSDOT standard drawings.
 - The plans shall illustrate complete details of construction of the proposed improvements including limits of construction and removals, proposed invert elevations, rim elevations and required construction materials.
 - Drainage designs will be determined through consultation with City staff and from previous experience rather than detailed basin modeling.
- 1.17 The Consultant shall provide bid period services to include responses to bidder inquiries, preparation of addenda, attendance at bid opening, preparation of bid tabulation, and recommendation to award or reject the apparent low bidder. The budget assumes a straight forward review process with the low bidder receiving the contract award.

- *Assumptions*

- No federal funding is anticipated for the Project engineering or construction.
- No utility upgrades are anticipated in the project design.
- Drainage & Water Quality Reports will not be required.
- Geotechnical Engineering services will not be required.

- Environmental Documentation will not be required.
 - Potholing of existing underground utilities will not be required.
 - City to obtain easement approval and record easement for Site 5.
 - The \$150 processing fee for the HPA application will be paid by the Consultant and reimbursed by the City through the invoice process.
 - Any fees for BXWA.com will be paid by the City.
- *Deliverables*
 - SEPA Checklist for Sites 1,2, and 5.
 - HPA Online Application for Sites 1,2, and 5.
 - 50% review submittal with Plans and Estimate (pdf).
 - 90% review submittal with Plans, Specifications, and Estimate (6 sets + pdf).
 - Bid Documents and Engineer's Estimate (6 sets ½ size plans, specs, and estimate)
 - Coordinate upload of Plans and Specifications to Builders Exchange.

Additional Services

The City of Tukwila may require other services of the consultant. These services could include additional design, right of way, utility potholing, environmental documentation, construction phase services, or other work tasks not included in the scope of work. At the time these services are required, the Consultant will provide the City with a detailed scope of work and an hour and fee estimate. The Consultant will not proceed with the work until the City has authorized the work and issued a Notice to Proceed.

Client City of Tukwila
 Project 2020 Small Drainage Program
 KPG PROJECT NUMBER: 20025
 DATE: 2/10/2020

Task No.	Task Description	Labor Hour Estimate											Total Hours and Labor Fee Estimate by Task		
		Principal	Engineering Mgr	Sr. Engineer	Urban Design Mgr	Project Engineer	Project Engineer	Project Land. Arch.	Design Engineer	Sr. Admin	Engineering Technician	Survey Crew II	Office Admin	Hours	Fee
			Sr. Const Mgr	Senior Project Engineer	Project Surveyor	Sr. CAD Technician	Survey Technician	Sr. CAD Technician	Transportation Planner	Landscaping Technician	Technician				
		232	210	184	166	140	128	117	115	100	216	92			
Task 1 - 2020 Small Drainage Program Design															
1.1	Management / Coordination / Administration	2	2	4					4			8	20	\$ 2,816.00	
1.2	Survey & Base Maps		4			16		40			40		100	\$ 16,400.00	
1.3	Site 1 - 40th Ave S Design		2	4		24		16					54	\$ 7,188.00	
1.4	Site 2 - Kicklat @ 53rd Ave S Design		2	4		24		16					54	\$ 7,188.00	
1.5	Site 3 - S 124th St Design		2	4		32		20					66	\$ 8,776.00	
1.6	Site 4 - Golden Nugget Design		2	4		8		8					26	\$ 3,612.00	
1.7	Site 5 - 42nd Ave review minor updates					4							4	\$ 560.00	
1.8	Site 6 - 48th Ave S Design		2	4		32		20					66	\$ 8,776.00	
1.9	50%, 90%, and Bid Submittals					16		22					58	\$ 6,814.00	
1.10	Prepare SEPA Checklist; Sites 1.2					16							24	\$ 3,040.00	
1.11	Prepare HPA / WDFW coordination; Sites 1.2, 5					24							32	\$ 4,160.00	
1.12	Prepare City Special Permit; Sites 1.2					16							20	\$ 2,640.00	
1.13	Prepare Specifications	2	2	4	20	8		10				4	28	\$ 4,520.00	
1.14	Quantity and Cost Estimating	2	2	4		8		4				2	30	\$ 4,310.00	
1.15	Utility Coordination		2	2	8	8		4				4	14	\$ 1,772.00	
1.16	Finalize Bid Documents		2	2		4		4				2	10	\$ 1,228.00	
1.17	Bid Period Services				28	240	0	164	4		40	18	642	\$ 88,672.00	
Task Total		6	20	32	28	240	0	164	4	90	40	18	642	\$ 88,672.00	
Total Labor Hours and Fee		6	20	32	28	240	0	164	4	90	40	18	642	\$ 88,672.00	
Reimbursable Direct Non-Salary Costs															
												Mileage at current IRS rate	\$ 300.00		
												Utility Locate Service	\$ 2,500.00		
												HPA Application Fee	\$ 200.00		
												Reproduction Allowance	\$ 800.00		
												Total Reimbursable Expense	\$ 3,800.00		
												Total Estimated Budget	\$ 92,472.00		

2020 SMALL DRAINAGE PROJECT LIST

February 18, 2020

<i>Priority Ranking</i>	<i>Problem Statement</i>	<i>Project Description</i>	<i>Cost</i>	
1 (New) 2020 – Design	13601 40 th Ave S. – The existing 18” CMP that conveys a portion of Southgate Creek has rusted out and is full of roots. Storm flows have eroded around the existing pipe. Lining is not feasible due to the excessive roots within the pipe.	Replace approximately 90 feet of 18” CMP and 80 feet of 12” concrete pipe. Project may require an HPA and SEPA.	<i>Construction</i>	\$75,000
			<i>Eng/Cont 25%</i>	<u>18,750</u>
			<i>Total</i>	\$93,750
1 (New) 2020 – Design	Klickitat Drive at 53 rd Ave. S. - The existing 18” CMP that drains to 53 rd Ave S. intersection has failed, and a small sinkhole has formed behind the guardrail.	Replace and install approximately 180’ of 18” storm drainpipe and tie into existing structure at intersection of 53 rd Ave. S. and Klickitat Drive. May require an HPA and Tukwila Special Permission.	<i>Construction</i>	\$60,000
			<i>Eng/Cont 25%</i>	<u>15,000</u>
			<i>Total</i>	\$ 75,000
3 2020 – Design	Allentown on S. 124 th – This street has no formal drainage system along the majority of the roadway leading to runoff into yards from right-of-way.	Install approximately 750’ of new 12” storm pipe and catch basins along north side of S. 124 th between 42 nd Ave. S. and 45 th Ave S.	<i>Construction</i>	\$190,000
			<i>Eng/Cont 25%</i>	<u>47,500</u>
			<i>Total</i>	\$237,500
3 2020 – Design	57 th Ave South off Interurban Ave behind the Golden Nugget. Existing drainage structure has 8 feet of riser rings that do not permit sufficient access to structure for maintenance.	Bring Type II manhole up to grade by removing 8 feet of 24” riser rings. Add 48” manhole riser sections and new manhole ring & cover.	<i>Construction</i>	\$ 25,000
			<i>Eng/Cont 25%</i>	<u>6,250</u>
			<i>Total</i>	\$ 31,250
1 2020 – Design	14811 42 nd Ave South – Inlet to pipe on this property frequently plugs up with debris, then overflows onto 42 nd Ave South, creating localized flooding.	Install a type 2 CB on storm pipe DR13258 (the inlet pipe for the flow running across this property) with a beehive rack on top and trash rack on the inlet pipe to the new structure.	<i>Construction</i>	\$50,000
			<i>Eng/Cont 25%</i>	<u>12,500</u>
			<i>Total</i>	\$86,250
3 2020 – Design	Allentown along 48 th Ave. S. 49 th – This street has no formal drainage system along the majority of the roadway leading to runoff into yards from right-of-way..	Install storm drain system approximately 820’ starting the northside of S 124th St and down 48th Ave S. and tie into the existing system along S 122nd St.	<i>Construction</i>	\$ 200,000
			<i>Eng/Cont 25%</i>	<u>50,000</u>
			<i>Total (Each)</i>	\$ 250,000

<i>Priority Ranking</i>	<i>Problem Statement</i>	<i>Project Description</i>	<i>Cost</i>	
3	Rip rap has been washed out from the end of outfalls at flapgates #27, #28 and #29 in Gateway Park. Add root wads	Replace rip rap, add root wads, HPA needed.	Construction Eng/Cont 25%	\$50,000 <u>12,500</u>
			Total	\$ 62,500
4 (Hold, See note)	Christensen Road at Kinko's – Need to connect storm systems on Christensen to solve pump problem during high river events. Need to check invert elevations	Install 12" pipe between catch basins behind building. Note: This site is currently in for a development permit. Engineer has been told about issue and is proposing a piped system that drains both to Christensen Rd and to APE. High flows will be able to flow from Christensen to APE if needed if system is built.	Construction Eng/Cont 15%	
			Total	
3	56 th Ave at one-way street, bubbling problems at the catch basin.	Replace 150 feet of 12" storm pipe and (2) Type II manholes.	Construction Eng/Cont 25%	\$ 35,000 <u>8,750</u>
			Total	\$ 46,250
3	Resident at 10349 Beacon Ave S. has roadway runoff entering her property causing damage to her septic system. Surveyed in 2008.	There are three possible solutions to resolve this issue; 1) obtain easements from private property owners to construct new drainage system to the west, 2) construct a deep storm line to Ryan Way, 3) install several infiltration structures along the flow path. The preferred method will need to be determined during design.	Construction Eng/Cont 25%	\$ 80,000 <u>20,000</u>
			Total	\$ 100,000
3	Allentown along 49 th Ave. S. – This street has no formal drainage and has problems with runoff into yards from right-of-way.	Install new drainage systems	Construction Eng/Cont 25%	\$ 175,000 <u>43,750</u>
			Total (Each)	\$ 218,750
3	Trail #14 at S. 168 th & 53 rd – Install storm system under sidewalk to get rid of deep ditch to residence there. From dead end of S. 168 th to storm line on 53 rd .	Install (2) Type I catch basins and 400 feet of 12" pipe. Remove deep ditch on north side of home's property.	Construction Eng/Cont 25%	\$ 100,000 <u>25,000</u>
			Total	\$ 125,000

<i>Priority Ranking</i>	<i>Problem Statement</i>	<i>Project Description</i>	<i>Cost</i>
3	S. 124 th from 43 rd to corner of 42 nd , north side of street.	Construct 275' of 12" pipe and approximately 5 Type I catch basins.	Construction \$ 80,000 Eng/Cont 25% <u>25,000</u> Total \$ 105,000
3	On 34 th & Military Road – Root plugged, old culvert tile pipe.	Replace 18" pipe from Military Road (through old gas station) to 34 th , then to corner of S. 144 th Street (Approximately 485 ft and 5 Type II manholes)	Construction \$ 125,000 Eng/Cont 25% <u>31,250</u> Total \$ 152,525
3	Old broken pipe from ditch on 45 th Ave. S. to S. 137 th – Mismatched pipes, junk system.	Replace approximately 450 feet of 12" pipe and add (8) catch basins on east side of 45 th .	Construction \$ 130,000 Eng/Cont 25% <u>32,500</u> Total \$ 162,500
3	At the NE corner of 33 rd Ave S. and S. 132 nd , 3306 S. 132 nd manufactured home has 12" CMP/concrete culvert tile pipe running through yard to manhole under deck and then out to pond in neighbor's yard then to 34 th live stream	Replace/re-route system, HPA needed. Approximately 125' of 12" pipe and two type I CBs needed.	Construction \$ 40,000 Eng/Cont 35% <u>12,687</u> Total \$52,687
3	38 th Ave & S. 130 th to dead end – Needs new drainage system. Old mismatched pipe, deep ditches, steep driveways. Water running into home on lower side of road.	Install new 12" storm system with catch basins and thickened edges to get water to new catch basins. Approximately 470 ft. of 12" pipe and 8 Type I CBs needed.	Construction \$137,500 Eng/Cont 25% <u>34,375</u> Total \$175,875
4	S. 150 th creek outfall to catch basin on S. 150 th (off Macadam Road). Undersized inlet "debris plugs", south of Baptist church.	Install new cone grate and Type II manhole.	Construction \$ 25,000 Eng/Cont 15% <u>3,750</u> Total \$ 28,750 *Design completed in 2016

<i>Priority Ranking</i>	<i>Problem Statement</i>	<i>Project Description</i>	<i>Cost</i>	
4	56 th Ave S & S. 141 st to S. 139 th problem area – Problem ditch. Long berms need new drainage system to prevent homes from being flooded.	Install approx. 600 feet of 12” storm main and (4-6) catch basins from S. 141 st to S. 139 th . Fill ditch, both sides of 56 th Ave South.	Construction Eng/Cont 25%	\$165,000 <u>41,250</u>
			Total	\$206,250
4	S. 133 rd & S. 134 th – Clean rocks and other debris out of 30” CMP pipe on west branch of Southgate Creek.	Debris plugs low flow pipe, hard to keep clean. NPDES issue and private property issue.	Construction Eng/Cont 25%	
			Total	
4	West Valley Hwy at the CAT Rental Store – Railroad tracks to the ditch.	Replace 650 feet of 12” pipe and install (5) Type I catch basins. Crossing OK, need R-O-W survey.	Construction Eng/Cont 25%	\$175,000 <u>43,750</u>
			Total	\$218,750
4	S. 143 rd & Interurban Ave South – Problem ditch from pipe on S 143 rd to flapgate manhole on river. Almost impossible to clean and is a maintenance headache.	Install approx. 500 feet of 36” storm main, (1) manhole point to point and fill ditch to river.	Construction Eng/Cont 25%	\$125,000 <u>31,250</u>
			Total	\$156,250
4	On S. 133 rd from Macadam Bridge to Weir Box on S. 134 th – Need to pipe problem ditch. Problem with trees, loose leaves, plugged ditch and storm structure, flooding over roadway and surrounding area.	Install 600 feet of 24” pipe and (3) Type II manholes.	Construction Eng/Cont 25%	\$150,000 <u>37,500</u>
			Total	\$187,500
4	On 37 th Ave South from S. 126 th to S. 128 th , then down S. 126 th to creek – Old mismatched pipe is broken, junk system etc.	Replace 750 feet of 12” pipe and install (12) catch basins.	Construction Eng/Cont 25%	\$200,000 <u>50,000</u>
			Total	\$250,000

<i>Priority Ranking</i>	<i>Problem Statement</i>	<i>Project Description</i>	<i>Cost</i>
4	On S. 130 th at East Marginal Way on west side – Old mismatched pipe is broken, junk system etc. From East Marginal Way to 34 th – Both sides of road, new system.	Replace pipe from ditch on north side crossing with 950 feet of 12” pipe and (15) catch basins, including angle across street.	Construction \$250,000 Eng/Cont 25% <u>59,375</u> Total \$309,375
5	Off S. 135 th between 37 th and 35 th – Local crawl space flooding due to no drainage in private alley.	Install drainage and hook up homes. Work on Private Alleyway, need petition from property owners for project to proceed.	Construction Eng/Cont 15% Total
4	Large Contech pot style vault at Gilliam Creek crossing on S. 154 th – vault needs better access for pot cleaning and replacement.	Pull lid from vault and add 2-3 feet riser section asphalt area. Add fences and gates for vehicle access for cleaning.	Construction \$ 25,000 Eng/Cont 25% <u>6,250</u> Total \$31,250
4	Dead end of S. 109 th and 50 th – Gravel driveway, home below this issue could be a problem with any directing water over bank.	Water runs off S. 109 th to 50 th , gravel driveway, washing ruts and flooding home. No easy fix – asphalt, pipe, catch basin, berm to bank??	Construction Eng/Cont 20% Total

CIPP LINING PROJECTS

<i>Priority Ranking</i>	<i>Problem Statement</i>	<i>Project Description</i>	<i>Cost</i>
2	Southcenter Blvd @ 61 st Ave South – Storm main needs to be lined between DR04298 and DR04276 to prevent root intrusion.	Approximately 110’ of 18” pipe. There is also a repair that needs to be made 20’ from the south end of this pipe where a guardrail post punctured the top of the pipe.	Construction \$ 30,000 Eng/Cont 25% <u>7,500</u> Total \$37,500
2	S. 140 th Street @ 38 th Ave South – Storm main needs to be lined between DR04742 and DR04743 and DR04744 to prevent root intrusion.	Approximately 200’ of 12” pipe.	Construction \$ 50,000 Eng/Cont 25% <u>12,500</u> Total \$62,500

2	S. 152 nd Street @ 42 nd Ave South – Storm main needs to be lined between DR02222 and DR02223 and DR01867 to prevent root intrusion.	Approximately 170' of 12" pipe.	Construction \$ 42,500 Eng/Cont 25% <u>10,625</u> Total \$53,125
2	S. 130 th Street @ 33 rd Place South – Storm main needs to be lined between DR04373 and DR04372 and DR04371 and DR04370 to prevent root intrusion.	Approximately 120' of 12" pipe.	Construction \$ 30,000 Eng/Cont 25% <u>7,500</u> Total \$37,500
2	40 th Ave South @ Southcenter Blvd – Storm main needs to be lined between DR01533 and DR01532 to prevent root intrusion.	Approximately 45' of 8" pipe.	Construction \$ 30,000 Eng/Cont 25% <u>7,500</u> Total \$37,500



INFORMATIONAL MEMORANDUM

TO: **Transportation and Infrastructure Committee**
FROM: **Henry Hash, Public Works Director** *H.H.*
BY: **Cyndy Knighton, Senior Program Manager**
Scott Bates, Traffic Engineering Project Manager
CC: **Mayor Ekberg**
DATE: **February 28, 2020**
SUBJECT: **Neighborhood Traffic Calming Program**
Project No. 81910301
2019 Year-end Report

ISSUE

Provide a year-end summary of 2019 accomplishments for the Neighborhood Traffic Calming Program (NTCP).

BACKGROUND

The NTCP was adopted by Council Resolution (No.1955) at the end of 2018 to address neighborhood concerns with traffic safety. The Council wanted to ensure that traffic calming safety decisions are based on technical engineering and applied in a uniform and consistent manner. The 2019-2020 budget provides annual funding to implement traffic calming strategies on residential streets and other safety improvements throughout Tukwila.

DISCUSSION

Staff continues to collect requests for traffic calming treatments and other improvements in residential areas. Requests for calming treatments and other safety improvements come into staff via a variety of ways:

- Enrollment requests from the City's website
- See-Click-Fix/Tukwila Works
- Email inquiries
- Phone calls
- Face-to-face conversations
- Other Departments, especially Police
- Historical knowledge
- Elected officials

When the Council adopted the NTCP, staff had a list of approximately 22 requests. Currently, 60 individual requests for improvements have been made. Requests come in sporadically and it is not uncommon for new requests to come in weekly. With only 18 issues waiting for action, staff is more able to focus proactively on residential safety improvements.

Highlights of the list of 2019 NTCP accomplishments are:

- Four new RRFB crosswalks
- Two newly marked crosswalks with signs
- 12 new radar signs
- One new school zone beacon with school crossing
- 13 new LED stop signs
- One 3-way stop to all-way stop conversion
- 4 additional speed cushions on 53rd Ave S
- Adding/upgrading 25 streetlights
- 54 parking restriction/prohibition signs.

An on-call contract was established with KPG to assist staff with the engineering for crosswalk siting studies, development of RRFB plans, and other needs that may come up to support the NTCP program. Crosswalks require engineering study to ensure that they are safely sited, and the City is legally protected. On-call design work, counts and traffic analyses were completed at nine locations for stop compliance, accident prevention, speeding, pedestrian/school safety and traffic flow.

One recently completed design study is the 53rd Ave S circulation revision. This study is the result of multiple requests to provide safer pedestrian access from the North Hill neighborhood to the Interurban Metro Park and Ride at 52nd Ave S. As documented in the attached study, 53rd Ave S is not wide enough for bi-directional traffic and pedestrians to coexist safely. The proposed improvement would revise 53rd Ave S to a one-way northbound shared motorist/bicycle lane while providing a designated buffered pedestrian walkway from S.137th St. to the existing sidewalk on 53rd Ave S. Staff proposes to include these improvements with the 2020 Overlay construction using the NTCP funding source for the one-way couplet conversion. Including this work in the 2020 Overlay Project is expected to be more cost effective than a stand-alone contract.

In 2019, NTCP expenses totaled \$206,779.84 of the \$400,000 budget. City staff time and resources were utilized when possible to save on the installation costs and the expedite work. The NTCP has been a great program that brings staff closer to the community which helps staff understand their needs and issues.

The attached map shows the locations where traffic calming treatments have been implemented to date.

RECOMMENDATION

Information only.

ATTACHMENTS

- Page 8, 2019 CIP
- Map of 2019 NTCP improvements
- 2019 NTCP list of Accomplishments
- 53rd traffic circulation study and revision plan

CITY OF TUKWILA CAPITAL PROJECT SUMMARY

2019 to 2024

PROJECT: **Traffic Calming/Residential Safety Improvements** Project No. 90210301

DESCRIPTION: Programmatic approach to addressing neighborhood traffic concerns through a variety of methods. Residential street improvements with sidewalks, safety improvements, and bike facilities.

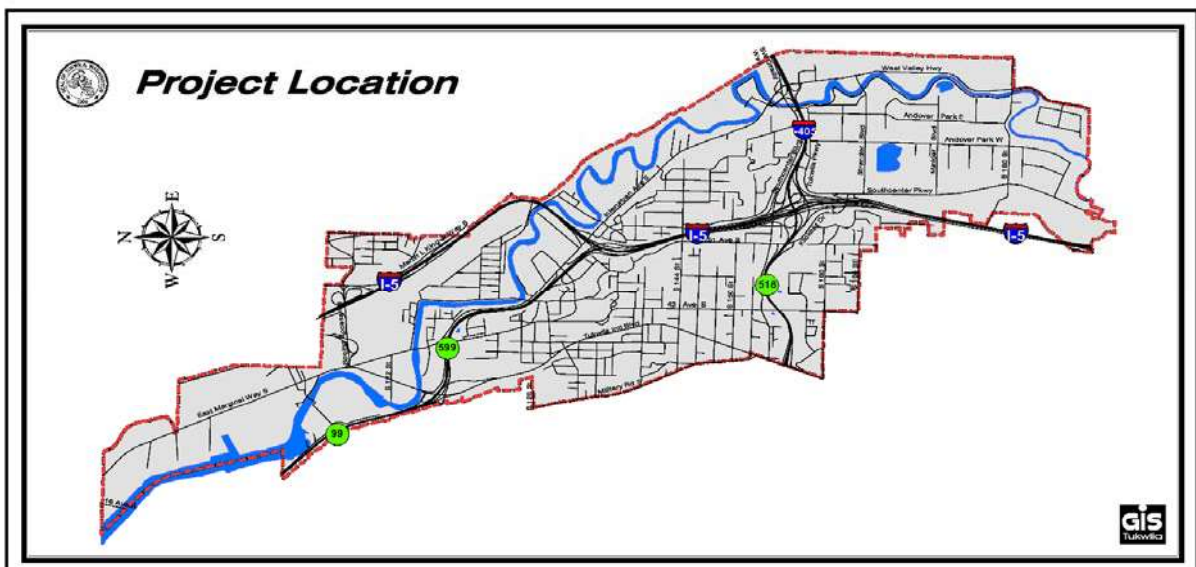
JUSTIFICATION: Neighborhood revitalization by improving residential streets.

STATUS: Future candidates are listed in the citywide comprehensive update and safety-based prioritization of residential street improvements, sidewalks, and bike lanes.

MAINT. IMPACT: Varies, depends on treatment(s) used.

COMMENT: Residential improvements have included 42nd Ave S, 53rd Ave S. Speed cushions installed at S 160th St.

FINANCIAL (in \$000's)	Through 2017	Estimated 2018	2019	2020	2021	2022	2023	2024	BEYOND	TOTAL
EXPENSES										
Design	9		80	80	80	80	80	80	80	569
Land (R/W)										0
Const. Mgmt.										0
Construction	38		320	320	320	320	320	320	320	2,278
TOTAL EXPENSES	47	0	400	400	400	400	400	400	400	2,847
FUND SOURCES										
Awarded Grant										0
Proposed Grant										0
Mitigation Actual										0
Mitigation Expected										0
City Oper. Revenue	47	0	400	400	400	400	400	400	400	2,847
TOTAL SOURCES	47	0	400	400	400	400	400	400	400	2,847





City of Tukwila

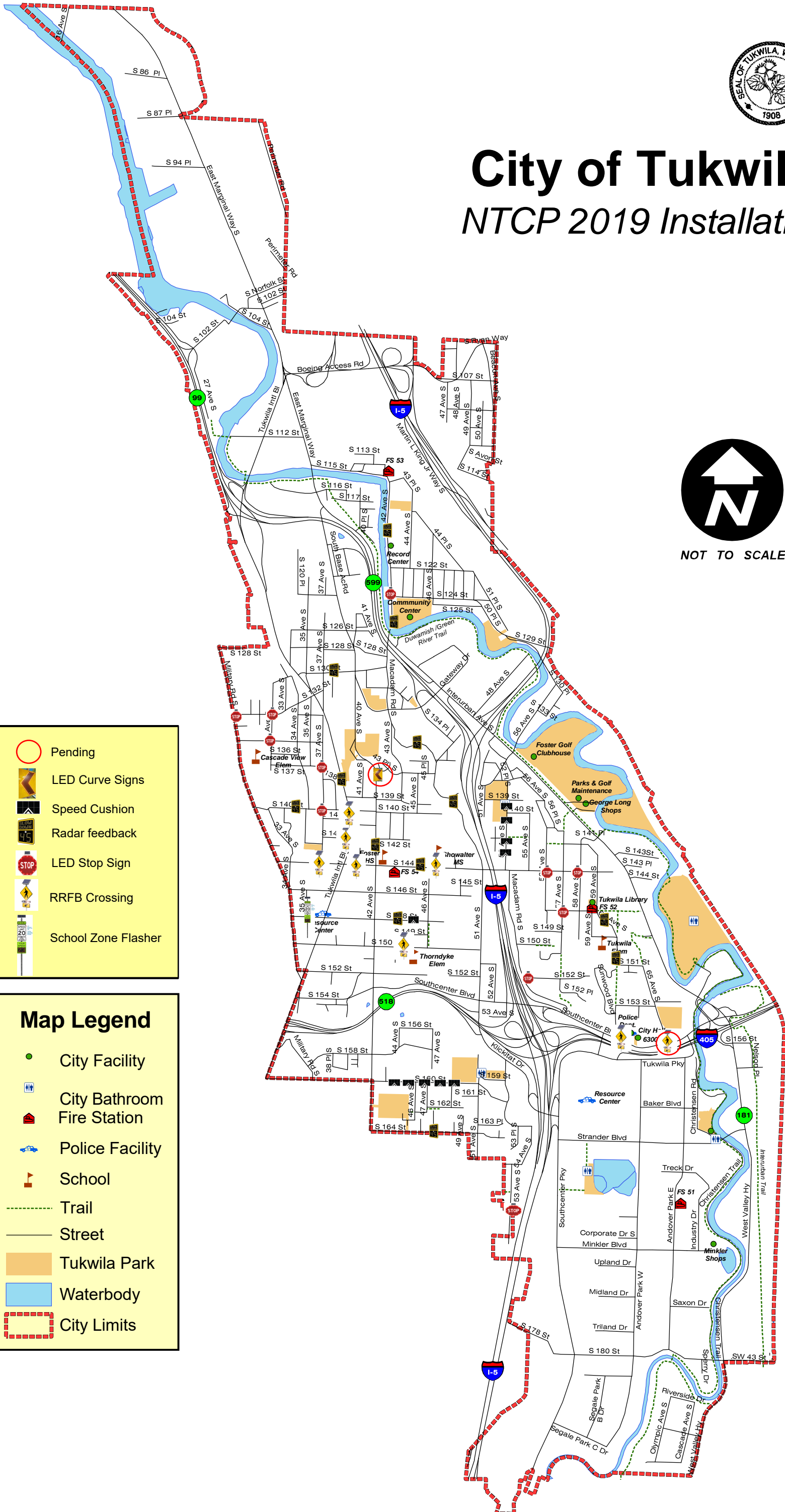
NTCP 2019 Installations



NOT TO SCALE

	Pending
	LED Curve Signs
	Speed Cushion
	Radar feedback
	LED Stop Sign
	RRFB Crossing
	School Zone Flasher

Map Legend	
	City Facility
	City Bathroom
	Fire Station
	Police Facility
	School
	Trail
	Street
	Tukwila Park
	Waterbody
	City Limits



2019 NTCP Accomplishments
January 1, 2019 - December 31, 2019

Location	Safety issue(s)	Requester	Cost	Status	Level	Complete?
Rapid Rectangular Flashing Beacons						
TIB at S.141st St	Pedestrian crossing safety	Abu-Bakr	\$263,000	Installed two RRFB crossings, radar sign southbound	2	✓ 5/19/2019
S.144th St at 46th Ave S	School Crossing safety	TSD	\$18,000	RRFB is installed, 2 radar signs installed	2	✓ 5/1/2018
S.144th St at 37th Ave S	Crossing safety/marked xing	Tuk-Works	\$20,000	RRFB designed/installed Completed	2	✓ 9/1/2019
65th Ave S at Southcenter Blvd	Pedestrian crossing safety	Staff/Historical	TBD	Design drafted	2	✓
62nd Ave S at Southcenter Blvd	Pedestrian crossing safety	Tuk-Works	TBD	Design drafted	2	✓
S.150th St at Thorndyke Elementary	School Crossing/marked xing	Staff/Historical	n/a	Completed 2019 by TSD	2	✓ 9/1/2019
LED Enhanced Stop Signs						
58th Ave S at S.144th St	Failure to obey stop sign	Tuk-Works	\$2,000	1 sign installed for EB 144th at 58th/design for 4-way	1	✓ 5/19/2019
37th Ave S at S.137th St	Failure to obey stop sign	Tuk-Works	\$6,000	3 signs installed	1	✓ 7/1/2019
37th Ave S at S.140th St	Failure to obey stop sign	Tuk-Works	\$8,000	4 signs installed	1	✓ 7/1/2019
53rd Ave S at S.170th St	Speeding, stop sign request	Tuk-Works	\$2,000	Signs ordered for eastbound	1	✓ 1/1/2020
S.133rd St at 32nd Ave S	4 way stop safety	Tuk-Works	\$4,000	2 signed installed for east and west	1	✓ 9/1/2019
S.135th St at 32nd Ave S	4 way stop safety	Tuk-Works	\$4,000	2 signed installed for east and west	1	✓ 9/1/2019
S.147th at 57th Ave S	4 way stop safety	Legacy	\$2,000	reviewed/converted 3-way to all-way stop	1	✓ 10/1/2019
Military Rd at S.133rd	Failure to obey stop sign	Seatac	\$2,000	1 sign installed for WB	1	✓ 9/1/2019
S.170th at 53rd	Failure to obey stop sign	Tuk-Works	\$2,000	1 sign installed for WB	1	✓ 2/1/2020
S.144th at 56th Ave S	Failure to obey stop sign	Staff/Historical	\$4,000	2 signed installed for east and west	1	✓ 2/1/2020
Driver Speed Feedback Signs						
S.148th St at 4400 blk *	Speeding	Tuk-Works	\$6,000	2 Radar signs installed	1	✓ 7/1/2019
Macadam Rd S at 13700 blk	Speeding/school bus stop safety	Tuk-Works	\$6,000	2 Radar signs installed	1	✓ 8/1/2019
S.164th St at 4700 blk	Speeding	Tuk-Works	\$6,000	2 Radar signs installed	1	✓ 7/1/2019
42nd Ave S at 11900 blk	Speeding	Tuk-Works	\$6,000	2 Radar signs installed	1	✓ 4/1/2019
S.140th St at 3500 blk	Speeding	Tuk-Works	\$6,000	2 Radar signs installed	1	✓ 8/1/2019
S.130th St at 37th Ave S	Speeding	Tuk-Works	\$6,000	2 Radar signs installed.	1	✓ 3/1/2019
Speed Cushions						
53rd Ave S at S 140th	Speeding	Tuk-Works	\$12,000	4 speed cushions installed	2	✓ 9/1/2019
S.148th St at 4400 blk *	Speeding	Tuk-Works	TBD	1 speed cushion installed, 1 more being considered	2	✓(partial)
School Zones						
S.148th St (Impact Charter Schools)	School Zone safety	Impact school	\$23,591	Completed- new flashers, marked crossing, curbing	2	✓ 9/1/2019
S.144th St at 44th PI S	School Crossing safety/xing	Tuk-Works	TBD	Design reviewed/not recommended	TBD	✗
Miscellaneous						
62nd at City Hall	Pedestrian crossing safety	Tuk-Works	\$0	Marked and signed crossing completed	1	✓ 10/1/2019
53rd/52nd Traffic circulation revision	Pedestrian/Bicycle safety	Staff/Historical	\$15,000	Design completed/construction in 2020	2	✓ 12/1/2019
65th, Schblvd and 62nd	Safety lighting	Tuk-Works	\$26,127	Installed new and replaced old lighting with LED	1	✓ 10/1/2019
42nd Av S at S.140th	Sight distance/Safety	Tuk-Works	\$0	Installed parking prohibitions near SE corner	1	✓ 10/1/2019
44th Ave S at 11800 blk	Speeding	Tuk-Works	\$0	Speeding not confirmed. No action taken	1	✗ 7/1/2019

Memorandum

To: Scott Bates, City of Tukwila Public Works

From: John Davies, AICP, PTP and Jan Ciganik, PE, PTOE – KPG P.S.

Date: 12/6/2019

Re: Review of Traffic Circulation: 52nd Avenue S, 53rd Avenue S, S 137th Street

This memorandum evaluates the potential change of 53rd Avenue S to one-way operations between 52nd Avenue S and S 137th Street. This planned improvement is designed to improve safety and circulation within the Foster Neighborhood of the Tukwila, located to the west of Interurban Avenue S and east of I-5. The analysis uses vehicle volume and speed data collected at seven locations along 52nd Avenue S, 53rd Avenue S, 53rd Place S and S 137th Street.

Existing Conditions

The neighborhood is made up of a set of narrow streets (18'-30' wide) which form several T-intersections, with stop controls on the minor approaches. The area has a challenging topography, with grades exceeding 15 percent on segments of 52nd Place S, 53rd Avenue S and S 137th Street (east of 52nd Place S). Due to its narrow width, 52nd Place S is a northbound one-way street.

There are sidewalks along the north side of 52nd Avenue S and on the east side of 53rd Avenue S near 52nd Avenue S. S 137th Street has a small segment of painted shoulder walkway along the south side of the street between the west and east segments of 53rd Avenue S. To the south of S 137th Street, 53rd Avenue S has sidewalks on both sides and sharrow markings for bicycles. All other streets in the study area lack sidewalks and bicycle facilities.

Figure 1 shows the current configuration of the neighborhood street network, with the red arrow indicating the one-way northbound operations on 52nd Place S.

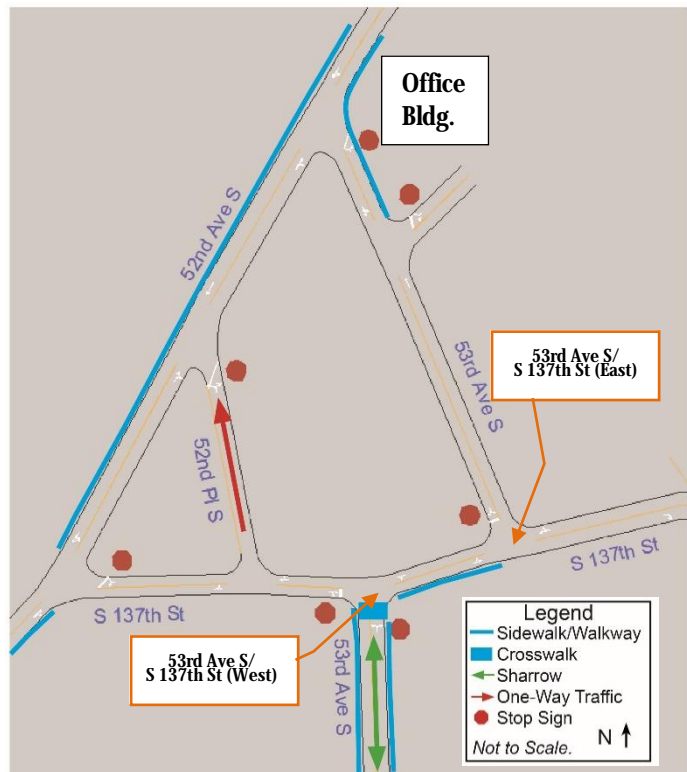


Figure 1. Existing conditions in the Foster neighborhood of Tukwila.

Speed data was collected for seven consecutive days in November 2019 at seven locations in the neighborhood. At most locations, the measured 85th percentile speeds were generally below the posted 25 mph speed limit. One exception was on 53rd Avenue S to the south of S 137th Street where the northbound 85th percentile speed was 29 mph and nearly 40 percent of vehicles traveled above the 25 mph speed limit.

Key Issues

Primary concerns in the neighborhood include cut-through traffic, safety and the lack of facilities for people walking and biking. The following priority issues were identified for this study:

- Providing a shoulder pathway along the east side of 53rd Avenue S between 52nd Avenue S and S 137th Street for people walking and biking.
- Addressing the sight distance issue for northbound turning vehicles at the 52nd Place S/52nd Avenue S intersection.
- Maintaining circulation while minimizing cut-through traffic volumes.
- Limiting impacts on primarily residential streets such as 52nd Place S.
- Improving non-motorized circulation through the area.

Proposed Improvements

The proposed traffic revision would convert 53rd Avenue S (between 52nd Avenue S and S 137th Street) from a two-way to a one-way street northbound and convert 52nd Place S from a one-way street northbound to a one-way street southbound. To minimize out-of-direction travel, two-way operations will be maintained on all other streets.

The proposed improvements would include the following elements:

Directional Changes

1. Conversion to northbound one-way operation on 53rd Avenue S, north of S 137th Street. A short section of two-way operation would be retained on 53rd Avenue S for 130' south of the 52nd Avenue S intersection to allow for access to the office building on the east side of the intersection.
2. Conversion of 52nd Place S from a northbound one-way street to a southbound one-way street in order to eliminate the existing sight distance issue. A mid-block speed hump is recommended reduce vehicle speeds. "Local Access Only" signage will be installed to reduce cut-through traffic.
3. Installation of wayfinding signage to direct southbound traffic on 52nd Avenue S to S 137th Street.

Traffic Controls

Modifications to traffic controls are necessary to reflect changes in traffic volumes through the transportation network. MUTCD guidance (Section 2B) was used to determine the location of stop control at intersections. At the 53rd Avenue S/S 137th Street intersection (west), the proposed improvements remove the eastbound stop sign and retain the northbound stop sign. This reflects the anticipated higher volumes on S 137th Street resulting from the one-way conversion. Removal of stop controls at the 53rd Avenue S/S 137th Street intersection (east location) would occur with the conversion of the street to northbound one-way traffic. The conversion of 52nd Place S to southbound one-way traffic would remove the existing northbound stop sign at 52nd Avenue S and add a new stop sign for the southbound approach at S 137th Street intersection.

Non-Motorized Facilities

The one-way operation on 53rd Avenue S allows space for a new walkway along the east side of the street connecting to the existing sidewalk at the north end of the segment. This walkway is envisioned as paint-delineated and would include “Do Not Park on Walkway” signs, consistent with similar facilities in the area. The following improvements are recommended to create a connected non-motorized transportation network:

- Addition of a striped buffer marking to the existing south side walkway on S 137th Street between the west and east segments of 53rd Avenue S.
- A new crosswalk on the east leg of the 53rd Avenue S/S 137th Street intersection (east) to connect the new walkway on 53rd Avenue S with the existing walkway on the south side of S 137th Street.
- Addition of shared lane markings or “sharrows” on 52nd Avenue S, 53rd Avenue S and S 137th Street to establish a bicycle network through the area. The combination of sharrow markings and MUTCD-compliant bicycle wayfinding signs are recommended.
- Creation of a striped walkway area along the east side of 52nd Place S.

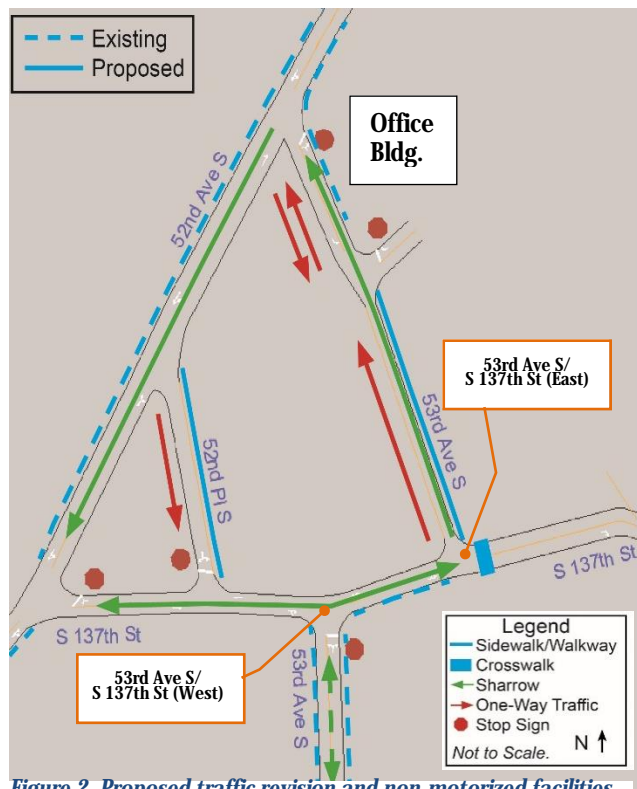


Figure 2. Proposed traffic revision and non-motorized facilities.

Figure 2 shows red arrows indicating the direction of one-way traffic with the revision and the location of stop signs. Also indicated are the existing (dashed) and proposed (solid) sharrow routes in green, and the existing and recommended pedestrian facilities marked in blue. As part of the revision, MUTCD-compliant signage and roadway markings will be installed to communicate the revised traffic pattern to drivers. These may include installation of “One-Way”, “Do Not Enter”,

“Local Access Only”, and directional wayfinding signs (“To 53rd Avenue S”) to establish the proposed travel route. The attached figure shows the details of the proposed design.

Evaluation of Improvements

The proposed changes to the circulation pattern will impact how traffic flows through the neighborhood. The following section describes the changes to vehicle volumes, intersection operations and travel times between the existing and proposed configurations.

Vehicle Volumes

With the proposed improvements, approximately 700 daily trips (87 peak hour trips) currently using 53rd Avenue S would be redirected to other routes to access S 137th Street. While some increase in traffic would be expected on 52nd Place S, wayfinding signage would direct traffic to turn at S 137th Street in order to reduce the impact to homes on 52nd Place S.

Intersection Operations

The traffic revision will detour vehicles from current routes and may bring higher numbers of vehicles to streets that presently have very low volumes. KPG used Synchro 10 software to calculate intersection operations for the PM peak hour, using vehicle volumes collected in November 2019. Level of service (LOS) is a measurement of the quality of traffic flow or traffic congestion at an intersection. Intersection LOS is defined by the seconds of delay experienced by vehicles traveling through the intersection. Intersection LOS ranges from A to F, with LOS A assigned when minimal delays are present and LOS F when lengthy delays occur. **Table 1** summarizes the LOS and seconds of delay at each intersection without and with the proposed circulation revision.

Table 1. PM Peak Hour Intersection Operations Without and With Project

Intersections	Without Project	With Proposed Improvements
53rd Ave S/52nd Ave S	A (8)	A (9)
52nd Place S/52nd Ave S	A (8)	--
52nd Ave S/S 137th St	A (9)	A (10)
52nd Place S/S 137th St	--	A (9)
S 137th St/53rd Ave S (west)	A (9)	A (9)
S 137th St/53rd Ave S (east)	A (9)	--

Highway Capacity Manual 6th Edition LOS and delay. The delay of the worst-performing approach at a stop-controlled intersection is reported.

Results of the operational analysis shows only minor increases in delays at two intersections with the proposed improvements.

Travel Times

Point-to-point travel times were estimated based on the travel distances and delays at intersections, as a result of the proposed changes to the circulation pattern through the area. **Figure 3** shows the travel time start and end points, labeled A-D. **Table 2** shows the change in travel times in seconds between existing conditions and with proposed improvements during the PM peak hour. The table also shows percent changes in travel time.

The proposed improvements result in longer travel times from point A to points C and D due to increased out of direction travel. The removal of the eastbound stop sign at 53rd Avenue S/S 137th Street (west) intersection, would result in shorter travel times from point B to points C and D, but longer travel times from point D to points B and C.

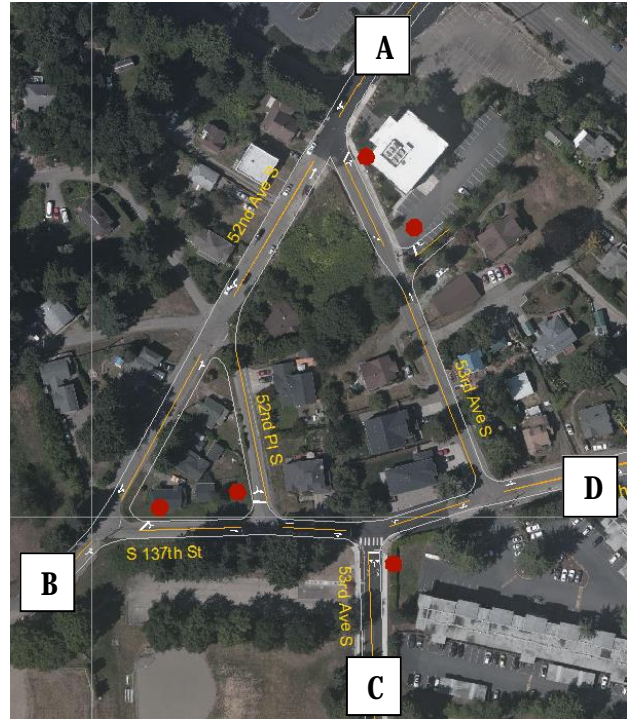


Figure 3. Travel time origins/destinations.

Table 2. Change in PM Peak Hour Travel Time with Improvements (Seconds)

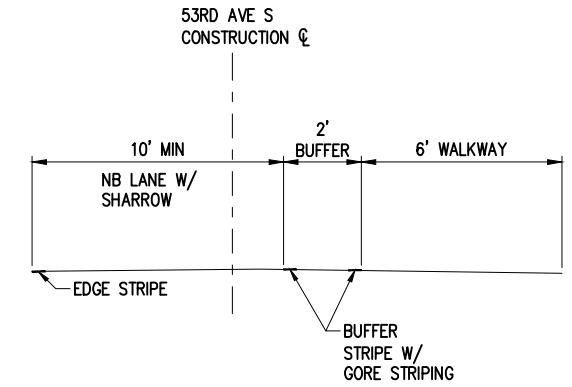
PM	From			
	A	B	C	D
A	x	0.0 (0%)	0.1 (0%)	0.0 (0%)
B	0.0 (0%)	x	1.3 (4%)	8.5 (25%)
C	4.7 (13%)	-9.1 (-32%)	x	7.4 (34%)
D	12.7 (36%)	-9.1 (-26%)	0.1 (0%)	x

Conclusion

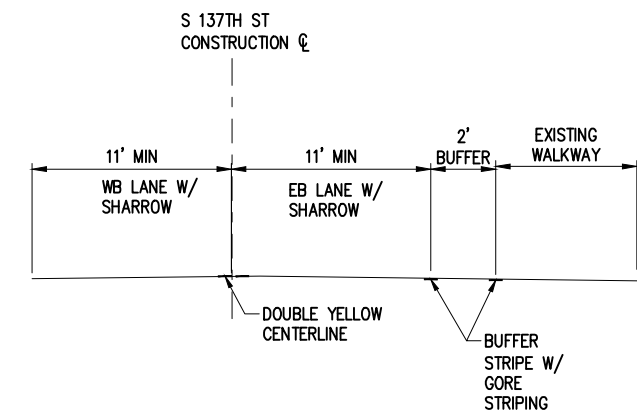
The proposed conversion of 53rd Avenue S to one-way operations to the north of S 137th Street addresses the safety and circulation issues within the neighborhood. The conversion provides an opportunity to create a complete pedestrian network by constructing a shoulder pathway along the east side of 53rd Avenue S between 52nd Avenue S and S 137th Street. The project will also address the sight distance concern at the 52nd Place S/52nd Avenue S intersection by changing the one-way traffic flow from northbound to southbound. Further improvements include the addition of traffic calming and the creation of a walkway area on 52nd Place S. The proposed routes will have only minor impact to traffic operations, but will increase out of direction travel for some destinations which may be considered to be a negative impact by some residents. Cost estimates for the re-stripping/sign purchase and installation are not calculated and are not included in this report.

SIGN SCHEDULE:

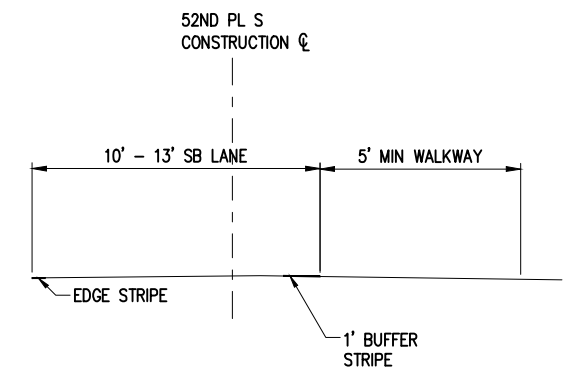
S1	R4-11	BIKE MAY USE FULL LANE
S2	R6-2	ONE WAY (LEFT ARROW)
S3	R6-2	ONE WAY (LEFT ARROW)
S4	W17-1	SPEED HUMP
S5	W17-1	SPEED HUMP
S6	R1-1	NEW STOP SIGN
S7	R4-11	BIKE MAY USE FULL LANE
S8	R1-1	NEW STOP SIGN
S9	R3-2	(LEFT ARROW)
	W1-7	(TWO WAY ARROW)
S10	R3-1	(RIGHT ARROW)
S11	D11-1	BIKE ROUTE
	D1-1	(TO GREEN RIVER TRAIL)
S12	R4-11	BIKE MAY USE FULL LANE
S13	W11-2	PEDESTRIAN CROSSING
	W16-7P	LEFT ARROW
S14	R6-2	ONE WAY (LEFT ARROW)
	W11-2	PEDESTRIAN CROSSING
	W16-7P	RIGHT ARROW
S15	W11-2	PEDESTRIAN CROSSING
	W16-7P	LEFT ARROW
	R6-2	ONE WAY (RIGHT ARROW)
S16	W11-2	PEDESTRIAN CROSSING
	W16-7P	RIGHT ARROW
S17	R4-11	BIKE MAY USE FULL LANE
S18	R6-2	ONE WAY (RIGHT ARROW)
S19	W6-3	TWO WAY TRAFFIC
S20	R5-1	DO NOT ENTER
S21	R5-1	DO NOT ENTER
S22	R3-5	RIGHT TURN ONLY



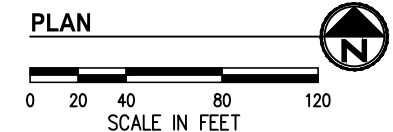
TYPICAL SECTION A-A
NTS



TYPICAL SECTION B-B
NTS



TYPICAL SECTION C-C
NTS



NEIGHBORHOOD TRAFFIC CALMING

53RD AVE S RE-ROUTE

KPG
Interdisciplinary Design
SEATTLE Tacoma
3131 Elliott Ave Wenatchee
Suite 400 WA 98121 Bellevue
(206) 866 1640 www.kpg.com



INFORMATIONAL MEMORANDUM

TO: Transportation and Infrastructure Committee
FROM: Bruce Linton, Police Chief
BY: Bruce Linton
CC: Mayor Allan Ekberg
DATE: February 28, 2020
SUBJECT: Walker and Bicyclist Safety Enhancements Grant Proposal

ISSUE

Committee approval to submit the Walker and Bicyclist Safety Enhancement Project Grant awarded by the Washington Traffic Safety Commission.

BACKGROUND

There is community and Council support for the solicitation of the Walker and Bicyclist Safety Enhancement Project Grant. The community interest and discussion originated at a recent Action Tukwila Meeting. Council President Quinn and Council Member Delostrinos-Johnson were present and are supportive of the grant application. A collaborative effort between the community members and the City could generate ideas on the focus areas and how we could best administer the grant to gain the maximum impact to our community.

The grant range is between \$30,000 to \$70,000 with a 10% match. Funds may be used towards the following focus areas and each focus area will require a separate grant application:

- Training of law enforcement officials on state laws applicable to pedestrian and bicycle safety.
- Enforcement mobilizations and campaigns designed to enforce state traffic laws applicable to pedestrian and bicycle safety.
- Public education and awareness programs designed to inform motorists, pedestrians, and bicyclists of state traffic laws applicable to pedestrian and bicycle safety.

DISCUSSION

Based on the focus areas, the Police Department will facilitate the solicitation for the City and will coordinate with Action Tukwila and other stakeholders to generate ideas surrounding the scope of projects relating to the selected focus areas. An initial stakeholder suggestion is to focus our efforts on a public education campaign targeted at youth and other vulnerable populations. Our current demographics and pedestrian safety concerns within our City will generate relevant content to this application process, hence the recommended focus areas for the grant submission.

FINANCIAL IMPACT

The required 10 percent match will range between \$3,000 and \$7,000. There is an option to contribute more than the minimum 10 percent match which would afford the submitting agency/group more points on the quantitative competitive scale.

RECOMMENDATION

Committee is being asked to approve two grant applications for (1) training of law enforcement officials on state laws applicable to pedestrian and bicycle safety, and (2) public education and awareness programs.

Attachment: Walker and Bicyclist Safety Enhancement Projects Application Packet, first five pages

Walker and Bicyclist Safety Enhancement Projects Application Packet



Walker and Bicyclist Safety Enhancement Projects Washington Traffic Safety Commission Request for Application (RFA) 2020-03 Application Due Date: March 27, 2020 Project Start Date: July 1, 2020

Only applications submitted through the designated SurveyMonkey platforms will be accepted. Faxed or mailed applications will not be accepted.

ESTIMATED TIME PERIOD FOR CONTRACT:

Walker and Bicyclist Safety Enhancement Projects July 1, 2020–September 30, 2021

(There is a possibility these projects could be extended depending on performance and availability of funding.)

APPLICANT ELIGIBILITY: This procurement is open to those Applicants that satisfy the minimum qualifications stated herein and that are available for work in Washington State.

- Washington State agencies.
- Federally recognized tribal governments
- Cities, counties, and their sub-agencies
- Non-profit organizations with existing IRS 501© (3) status
- Public schools (and private schools with non-profit status)

Prior recipients of these funds are eligible to apply for new funding.

Walker and Bicyclist Safety Enhancement Projects Application Packet

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Walker and Bicyclist Safety Enhancement Projects Application Packet

I. GENERAL INFORMATION FOR APPLICANTS

Introduction

The Washington Traffic Safety Commission (WTSC) administers funds from Chapter 405 H of the federal highway safety block grant earmarked for increasing safety for walkers and bicyclists (23 CFR § 1300.27).

Funding Opportunity

There is a total of \$150,000.00 in federal funding available to support activities earmarked for increasing safety for walkers and bicyclists.

Walker and Bicyclist Safety Enhancement Projects (Details in Exhibit 1) -

Maximum and Minimum Grants Available

Maximum grant amount:

\$75,000

Minimum grant amount:

\$30,000

Who is Eligible to Receive WTSC Grant Funds

- Washington State agencies.
- Federally recognized tribal governments
- Cities, counties, and their sub-agencies
- Non-profit organizations with existing IRS 501© (3) status
- Public schools (and private schools with non-profit status)

Prior recipients of these funds are eligible to apply for new funding.

Note: Groups that do not fit one of these categories may still be able to receive these funds if they can get an eligible organization to apply on their behalf. The Non-Profit Assistance Center, (206) 324-5850, info@nacseattle.org, or a United Way agency in the area may be able to help find an eligible organization to submit an application.

Match Requirements

Walker and Bicyclist Safety Enhancement Projects

There is a requirement for a minimum of 10 percent cash match on these projects. Maximum points for this item come with match amounts that are greater than 10 percent of the award amount. Match requirements are detailed in Exhibit 1E.

Request for Applications (RFA) Coordinators

The RFA Coordinators are the sole points of contact in the agency for this procurement. All communication between the Applicant and the agency upon release of this RFA shall be with the RFA Coordinator, as follows:

Name: Scott Waller

E-Mail Address: swaller@wtsc.wa.gov

Walker and Bicyclist Safety Enhancement Projects Application Packet

Phone Number: (360) 725-9885

Or

Name: Manny Gonzalez

E-Mail Address: mgonzalez@wtsc.wa.gov

Phone Number: (360) 725-9888

Any other communication will be considered unofficial and non-binding. Applicants are to rely on written statements issued by the RFA Coordinator. Communication directed to parties other than the RFA Coordinator may result in disqualification of the Applicant.

RFA Timeline

ID	Task Name	End date
a)	RFA release date	February 5, 2020
b)	Pre-proposal Conferences (<i>Optional</i>)	
	• In-person or distance participation	February 19, 2020
	• Distance participation only	March 4, 2020
c)	Application portal in SurveyMonkey opens	February 19, 2020
d)	Applications due	March 27, 2020
e)	Application evaluation completed	April 7, 2020
f)	Send recommendations for funding to WTSC Director	April 9, 2020
g)	Make funding offers to successful Applicants	April 14, 2020
h)	Contracts executed with successful Applicants	June 30, 2020
i)	Project start date	July 1, 2020
j)	Project end date	June 30, 2021

WTSC reserves the right in its sole discretion to revise the above schedule.

Pre-proposal Conference (Optional)

There will be two opportunities to participate in an overview regarding this opportunity.

- **February 19, 2020, 9–10 a.m.**

In-person participation will be at the Washington Traffic Safety Commission, 621 8th Avenue, SE, Suite 409, Olympia, Washington. Distance participation will be available through the following options:

School Safety Zone Account and Walker and Bicyclist Safety Enhancement Projects

JOIN WEBEX MEETING

<https://watech.webex.com/watech/j.php?MTID=m28b7da5ae393b439d6aa95d2099cf4f5>

Meeting number (access code): 808 561 965;

Meeting password: i7jhgW6J



Tukwila City Council Transportation & Infrastructure Committee – 2020 Work Plan

Cynthia Delostrinos Johnson, Chair; Verna Seal, Kate Kruller					
	Description	Qtr	Action or Briefing	Status	
Transportation					
1.	42nd Avenue South Phase III/Gilliam Creek Culvert				
	Project Closeout	1	A		Finishing up punch list items.
2.	53rd Avenue S (S 137th – S 144th St) & Water/Sewer/SSWM				
	Project Closeout	2	A		Utility undergrounding ongoing. Punch list works and Physical completion to follow.
3.	Traffic Calming/Residential Safety				
	Various activities/updates	As needed	B		
	Consultant Agreement for On-Call Engineering	1	A		Complete
4.	Residential Streets Grant Applications				
	<ul style="list-style-type: none"> • 46th Ave S Safe Routes to School • Macadam Rd. South Complete Street • S. 152nd St Safe Routes to School 	As needed	A		
5.	TIB Rechannelization				
	Final Report with alternative options	1	B		
6.	Annual Overlay and Repair Program				
	2019 Project Closeout	1	A		Complete
	Pavement Management Design	2	A		
	Bid Award for 2020 Project	2	A		
	2021 Design Contract	4	A		
7.	Annual Bridge Inspections and Repairs				
	Annual contract		A		
8.	West Valley Hwy (I-405-Strander)				
	Project Update	3	B		
	Bid Award	4	A		
9.	Boeing Access Road over Airport Way Seismic Retrofit				
	Bid Award		A		
10.	TUC Ped/Bike Bridge				



Tukwila City Council Transportation & Infrastructure Committee – 2020 Work Plan

Project Closeout	1	A	Complete
11. 42nd Ave S Bridge Replacement			
Direction on next steps	1	A	Complete (proceed with inspection/initial design)
13. Transportation Element of the Comp Plan/Walk & Roll			
Consultant Agreement	3	A	
14. BNSF Access			
Preferred alternative	1	B	
15. OTHER			
Grant Applications and Acceptances	1-4	A	
Transportation Demand Management Programs Updates & Grants	1-4	A,B	
Transportation Improvement Program Resolution		A	
Traffic Impact Fees Update (Bi-annual)	4	A	
Surplus Equipment Resolution - Fleet		A	
2021-2022 Budget Components: Residential Street, Arterial Street, Public Works Dept., Fleet, Debt Service Funds, PW Shops Fund, Street Dept.			



Tukwila City Council Transportation & Infrastructure Committee – 2020 Work Plan

Utilities					
1.	58th Avenue South Water Main Replacement			A	TBD
	Bid Award				
2.	Macadam Rd S Water Upgrade			A	TBD – grant dependent
	Bid Award				
3.	CBD Sanitary Sewer Rehabilitation				
	Design 2020			A	TBD
	2020 Bid Award			A	TBD
4.	Water & Sewer Comprehensive Plans				
5.	Fort Dent Park BNSF Sewer Relocation				
	Bid Award			A	TBD
	Project Closeout			A	TBD
6.	GIS Inventory of Water/Sewer/SWM System				
	Consultant Agreement		2	A	TBD
7.	Annual Small Drainage Program				
	Closeout 2018		2	A	
	Closeout 2019		3	A	
	2020 Project List Review/ Design Contract		1	A	
	Bid Award 2020		2	A	
8.	Tukwila 205 Levee Certification				
	Status Update		2	B	
9.	Stormwater Quality Retrofit Project Updates and grants				
	Grant Application		3	A	
10.	East Marginal Wy S Stormwater Outfalls				
	Bid Award		2	A	
11.	Chinook Wind				
	Consultant Agreement		3	A	
12.	Gilliam Creek Fish Barrier Removal				
	Grant Application		2	A	
13.	Riverton Creek Flapgate Removal				
	Bid Award		2	A	Permit Approval Dependent
14.	Nelson Side Channel				



Tukwila City Council Transportation & Infrastructure Committee – 2020 Work Plan

	Grant Application	1	A	
15.	S. 131st Place Drainage Improvements			
	Consultant Agreement	2	A	
16.	OTHER			
	Resolution for Water, Sewer, Surface Water Utility Rates 2021-2022			
	2021-2022 Enterprise Fund Budget Components	4	A	
	Metropolitan Water Pollution Abatement Advisory Committee contract			Public comment from 11/25/19 Council meeting
	Flood prevention and utility infrastructure	1	B	Complete
	Franchise utility agreements and approvals (SCL, Century Link, Comcast, Cascade Water, Sewer district)			As needed
	Sewer services in Duwamish neighborhood	1	B	Hand out/discussion on 2/3
15.	Standard Reports/Briefings	Frequency	Dept.	
	Facility Tours	As needed	PW	
	SCATBD	Monthly	CM Hougardy/Laurel	
	Committee Work Plan	2-4X	Council, Staff	
	Waste Management Update	Annual	PW	
	NPDES	Annual	PW	
Public Safety Plan – Fleet & Facilities Building				
16.	Monthly Overview	1-4	B	
17.	SCL Temporary Construction Permit	1	A	Complete
18.	Consultant Agreement – Geotechnical Engineering Soil Exploration	1	A	Complete