



**Washington State
Department of Transportation**

Supplemental Agreement Number _____		Organization and Address	
Original Agreement Number		Phone:	
Project Number	Execution Date	Completion Date	
Project Title	New Maximum Amount Payable		
Description of Work			

The Local Agency of _____ desires to supplement the agreement entered in to with _____ and executed on _____ and identified as Agreement No. _____

All provisions in the basic agreement remain in effect except as expressly modified by this supplement. The changes to the agreement are described as follows:

I

Section 1, SCOPE OF WORK, is hereby changed to read:

II

Section IV, TIME FOR BEGINNING AND COMPLETION, is amended to change the number of calendar days for completion of the work to read: _____

III

Section V, PAYMENT, shall be amended as follows:

as set forth in the attached Exhibit A, and by this reference made a part of this supplement.

If you concur with this supplement and agree to the changes as stated above, please sign in the Appropriate spaces below and return to this office for final action.

By: _____ By: _____

Consultant Signature

Approving Authority Signature

Date

Exhibit A
Connection to King County Wastewater System
Agreement History

Supplement Number	Date	Amount	New Maximum Amount Payable	Supplement Reason
Original	7/28/2025	\$32,363	\$32,363	N/A
1		\$175,595	\$207,958	Design services



City of Redmond
Connection to King County Wastewater System - Avondale Way

Otak Project No. 22289

01/16/2026

Amendment No. 1

Description of Project

LOCATION: Avondale Way just south of NE Union Hill Rd

DESCRIPTION: Otak previously conducted data review, a site visit, and a preliminary alternatives analysis. This amendment adds services for final design of the preferred alternative. The King County (County) sewer trunkline was determined to be within the roadway and the preferred alternative includes replacement of the City sewer main along the existing alignment. A new manhole will be required at the connection to the County sewer trunk. This project will involve extensive work within Avondale Way, which is a concrete panel road under asphalt concrete pavement. The pipe is about 12' - 18' deep. A roadway restoration will be included in this project. The design is anticipated to include:

- Replace approximately 20 ft length of 27-inch diameter pipe, depending upon the alignment
- Installation of new manhole
- Plug existing service connection
- Shoring, 12'-18' ft deep
- Dewatering as needed
- Repave and stripe
- Restoration of signal system

SCHEDULE:

The initial effort is anticipated to last 7 months with notice to proceed in January 2026 and completion of bid support in July 2026. The target construction start is summer of 2026.

The Scope of Services is described in detail in the following sections.

1.0 Project Management and Coordination

1.1 Coordination with the City

Otak will coordinate with the City on a regular basis by phone and email to keep the project manager informed about project progress, project issues and schedule. Otak will assist in scheduling project related meetings, reviews, and other coordination activities needed to keep the project moving forward. Regular communication with the City project manager will occur on a weekly basis. As needed, based on project activity, the status meeting may be adjusted to occur bi-weekly. The project management meetings will generally be held virtually. It is anticipated that a total of fourteen (14) project management meetings will be held during the design period. Attendance will include OTAK's project manager and Project Engineer. Meetings are expected to be one (1) hour or less.

1.2 Project Management Plan

Otak will prepare a preliminary Project Management Plan (PMP) prior to the project kickoff meeting. The PMP will define project goals and design criteria, communications, deliverables, and quality control requirements. A project schedule (MS Project) will be developed and maintained as part of the PMP. The PMP will be updated after the project kickoff meeting, subject to comments received. This Task includes attendance of one (1) project kickoff meeting by key design team members.

TASK 1.2 DELIVERABLES

- Project Management Plan (PMP)
- Project schedule updates

1.3 Project Monitoring and Reporting

Project monitoring and reporting will include the coordination of design team members, subconsultants, internal project scheduling, and the preparation of a monthly progress report and a monthly invoicing.

TASK 1.3 DELIVERABLES

- Monthly progress report and invoice, per Redmond requirements

TASK 1 ASSUMPTIONS

- Notice to proceed will occur in January 2025 with bid support completion anticipated by end of July 2026.

3.0 Geotechnical Investigation

3.2 Geotechnical Investigation and Analysis (Sub-GeoEngineers)

The geotechnical subconsultant Scope of Services is included as Attachment A.

3.3 Geotechnical Review and Coordination

Otak will review geotechnical deliverables prepared by a subconsultant and provide coordination for the geotechnical field work and design recommendations.

4.0 Topographic Survey and Basemap

4.1 Topographic Survey and Basemap for Design

Otak will provide topographic surveying and mapping along Avondale Way of existing surface features of the site, including topography breaks, pavement and other hardscape, walls, sidewalk railings, landscape areas, significant trees (minimum eight-inch diameter deciduous and four-inch diameter conifer), striping, signs, utilities, and appurtenant structures. This field survey data, in addition to the City's GIS data and any as-built and/or utility plans available from the City (or utility providers), will be utilized to create a basemap sufficient for final design of improvements. The map will show planimetric features with contour lines at one-foot intervals. Survey will be established on NAD 83(2011) Washington State Plane, north zone and NAVD 88.

Otak will contact the Washington Utility Notification Center's one-call center for mark-up of existing utilities and request maps. Otak will coordinate with a private utility locate service to field locate any missing traceable underground utilities. Otak will survey and map existing utilities within the work area from field locates, visible above-ground appurtenances, utility as-built drawings. After completion of preliminary design utilities at critical crossing will be potholed (under Task 5) and survey of pothole location markers

will be provided. We assume that up to four potholes will be needed and have included survey by Otak of these 4 potholes.

The area to be mapped will include:

- From southeasterly curb face of the intersection island at Avondale Way NE and NE Union Hill Road to the curb on the east bound travel lane of NE Union Hill Road.
 - Tie and obtain rim/invert elevations of the sewer manhole in the north travel lane of Avondale Way (existing 27" concrete pipe) and the sewer manhole to the west near Bear Creek Trail.

Otak will incorporate GIS parcel lines into the base map.

TASK 4.1 DELIVERABLES

Topographic Base Map (Scale 1"=20') with one-foot contour intervals.

TASK 4.1 ASSUMPTIONS

- No survey monuments will be disturbed or destroyed by construction.
- Right-of-way permit and traffic control will be needed to obtain invert elevations of a sewer manhole on Avondale Way NE.

5.0 Utility Coordination

5.1 Franchise Utility Coordination

Otak will use the online One-Call service to identify utility providers listed in the project vicinity and will contact franchise utility companies (sewer and water, power, gas, and telecommunications) to request record drawings. It is anticipated that up to three (3) utility coordination meetings will occur to review 30% design, associated cost and schedule implications, and design (by others) of relocation (if needed) of the affected utilities. Progress on utility coordination will be tracked in a spreadsheet. Otak will develop a Utility Coordination Plan graphic to be used in discussions with the City and Utility Providers.

5.2 Potholing Coordination

Otak will prepare a pothole plan for coordination and approval by the City and franchise utilities and will contract with a utility locating company for potholing utilities that may be in conflict, but elevations cannot be determined from available information. It is assumed that up to three (3) potholes will be required. Otak surveyors will survey the nails and hubs set by the potholing company for locating the utility for project design.

5.3 Potholing Service (Vendor – APS)

Otak will contract with APS for performing potholing field work. APS will prepare the temporary traffic control plan and obtain the Right-of-Way traffic control permit for potholing activities. It is assumed that up to three (3) potholes will be required. Potholing vendor will be billed as a reimbursable expense.

TASK 5 ASSUMPTIONS

- Otak will prepare for and attend a maximum of three two-hour meetings regarding preliminary design issues.
- Otak will attempt to utilize the City's regular monthly utility coordination meeting to avoid multiple meetings during design.
- One meeting with power/gas provider.
- One meeting with telecommunications provider.

- One meeting with City utility representatives.

TASK 5 DELIVERABLES:

- Electronic and hard copies of spreadsheet/matrix summarizing utility conflict locations and actions for each of the project locations.
- Utility Coordination Plan Sheets identifying utilities and pothole locations.

6.0 PRELIMINARY AND FINAL DESIGN/ENGINEERING

We understand that the proposed improvements will be bid as an individual bid package.

Plans will be prepared per the latest version of the City CADD standards (in place at time of project). Civil 3D will be used for civil design. Electronic copies of all documents, drawings, and models will be provided to the City at design or construction completion.

To meet the accelerated schedule for starting construction in summer 2026, the first construction document submittal will be 50% level and the 60% submittal will be omitted. City reviews will occur at 50%, 90%, and 100% design level.

The plans are anticipated to include the following sheets:

Title	No. Sheets ⁽¹⁾
Cover sheet with vicinity map	1
General notes, construction sequencing, abbreviations and legend	1
Survey Control and Alignment Plan	1
Site Logistics Plan	1
Temporary Sediment and Erosion Control and Demolition Plan	1
Sanitary Sewer Plan and Profile	1
Sanitary Sewer Details	1
Pavement and Restoration Plan	1
Pavement and Restoration Details	1
Roadway Channelization	1
Traffic Signal Plan	1
Traffic Signal Details	1
Traffic Control Plans	2
TOTAL	14

(1)The 50% plan set will not include all plan sheets and details.

6.1 Design Review Meetings

Design review meetings will be held on a regular basis with the City to discuss project issues during the design process. It is anticipated that a total of four (4) design review meetings will be held during the design period.

Coordination with King County will also be required and may be combined with the City’s design review meetings to streamline the process.

6.2 Preparation of 50% Design

6.2.1 50% Plans

Otak will prepare 50% level civil design plans for the selected sanitary sewer alignment. The design will include roadway restoration improvements. Plans will be prepared to current City of Redmond standards. Plans will include roadway sections, horizontal layout, vertical profile, and schematic layout of utility improvements for sanitary sewer and other utilities to be adjusted. Plans will be prepared at a horizontal scale of 1"=20 feet and a vertical scale of 1"=5 feet. The 50% civil plans will be coordinated and submitted to the City and King County for review. Review comments will be addressed and incorporated into the 90% civil plans.

6.2.2 50% Opinion of Probable Cost (OPC)

Otak will prepare a 50% level opinion of probable cost for construction in WSDOT/APWA format with unit bid prices.

TASK 6.2 DELIVERABLES

- 50% Level Civil Plans (electronic .pdf)
- 50% Level OPC (electronic .pdf)

6.3 Preparation of 90% Design

6.3.1 90% Plans

Otak will prepare an engineering design and plan set based on the 50 percent plans to a scale and layout appropriate for a construction plan set, address comments from the City's review of the 50 percent design, and the plans will be revised to represent a 90 percent level of detail. It is assumed that comments will be provided by the City in a spreadsheet format (and may include King County comments). Otak will provide responses to the comments on the same spreadsheet to consolidate and organize the comment and response process.

6.3.2 90% Opinion of Probable Cost

Otak will prepare a 90% level opinion of probable cost for construction in WSDOT/APWA format with unit bid prices.

6.3.3 90% Special Provisions

Otak will prepare Special Provisions for Division 1 through 9 of the Specifications. Special Provisions will be prepared based upon the 2026 Edition of the Washington State Department of Transportation Standard Specifications for Road, Bridge, and Municipal Construction and latest Amendments. Otak will work with the City to prepare the full Project Manual including advertisement and bid forms, contract, Division 1, as well as any necessary Appendices.

The City will provide the current City standard Bid Forms, Contract Provisions, and Special Provisions to Otak in electronic docx format (Word).

TASK 6.3 DELIVERABLES

- 90% Plans (Half-size) (PDF)
- 90% Engineer's Opinion of Probable Cost (Excel and PDF)
- 90% Special Provisions: General and project specific Divisions 1 thru 9 (Word)
- Comment Response Form (Excel)

6.4 100% Plans, Specifications, and Opinion of Probable Cost

Otak will address comments from the City's review of the 90-percent design and prepare a final design construction plan set, a final construction cost estimate, and final Project Manual.

TASK 6.4 DELIVERABLES

- Final Plans (electronic .pdf)
- Final Engineer's Estimate (electronic .xlsx and .pdf)
- Final Project Manual including: Bid Forms, Contract Provisions, Special Provisions, and Appendices (electronic .pdf)
- Comment Response Form (Excel)

6.5 Bid Documents

Otak will revise the 100% construction documents per City comments and provide final signed bid plans and Project Manual to the City. The City will post the documents for advertisement.

TASK 6.5 DELIVERABLES:

- Bid-ready contract documents will be delivered as electronic (.pdf) versions.

7.0 Advertisement and Bid Support

Otak will provide responses to bidder's 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
6. Review of bid tab

8.0 Traffic Signal Restoration (Sub-TENW)

- The traffic signal subconsultant Scope of Services is included as Attachment B.

9.0 Construction Engineering Support Services (Optional)

If requested, this scope will be submitted as a supplement to the Contract. It may include services such as:

- Response to RFI's
- Review and approval of submittals
- Construction observation
- Attendance at regular construction meetings
- Coordination directly with the contractor, as directed by City of Redmond Public Works

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.

SUBCONSULTANTS (See Attached)

- Geo Engineers – geotechnical engineering
- Transportation Engineers NW –traffic control signal modification

Otak Direct Expenses (Reimbursables)

Direct expenses to be submitted for reimbursement include:

- Mileage/Travel costs for site investigations and meetings
- Vendor for utility locates for survey work
- Traffic Control for survey work
- Vendor for potholing of utilities
- Other Misc. Expenses

DESIGN STANDARDS

- City of Redmond Standard Specifications and Standard Details
- WSDOT Standard Specifications-2026 Edition
- WA Dept. of Ecology Criteria for Sewage Works Design (Orange Book), Chapter C1
- King County Road Design and Construction Standards - 2016 Edition
- City of Redmond Stormwater Technical Notebook

ASSUMPTIONS

- The City will be responsible for all hazardous materials and special permits.
- The City will pay for all required permit fees.
- Right-of-way acquisition will not be required. If right-of-way acquisitions services are required they will be added as a supplemental service.
- The City will obtain all Rights of Entry needed to perform survey or other investigation on private property necessary to support the project.
- The City will acquire all necessary Title Reports.
- Sanitary Sewer Capacity modeling is not included in this scope. This can be added as a supplemental service if critical sanitary sewer flow data is not available from the City.
- Hydraulic Analysis and flood-plain permitting support is not included in this scope.
- Cultural resources assessment and Inadvertent Discovery Plan are not included in this scope of work due to proposed trenching work being limited to area within the roadway at the location of existing underground utilities. If cultural resources assessment is required through the SEPA process, these services can be added through an amendment.
- Environmental baseline assessment and permitting support are not included in this scope of work due to the extents of proposed work being limited to the existing roadway footprint. If environmental assessment or permitting support are required during design, these services can be added through an amendment.
- The project qualifies as wastewater utility replacement project that does not make modifications to the stormwater utility system so a stormwater report is not required.

- Structural engineering is not included in this scope.
- Participation in a Value Engineering (VE) Study is not included in this scope.
- Construction management support, construction administration, and/or construction inspection services are not included in this scope of work, but may be added at a later time at the discretion of the City.

Attachment A

Subconsultant Scope of Work - Amendment No. 1



17425 NE Union Hill Road, Suite 250
Redmond, Washington 98052
425.861.6000

January 12, 2026

City of Redmond
c/o Otak, Inc.
11241 Willows Road NE, Suite 200
Redmond, Washington 98052

Attention: Tyson Hounsel, PE

Subject: Proposed Scope, Revised
Geotechnical Engineering Services
King County Wastewater Connection – Avondale Way
Redmond, Washington
File No. 0500-219-00

Introduction and Project Understanding

GeoEngineers, Inc. is pleased to present our scope and fee estimate for geotechnical engineering services for the King County Wastewater Connection at Avondale Way project located in Redmond, Washington. We understand the City of Redmond (City) plans to install a short segment of 30-inch diameter sewer and a new manhole to connect to the Metro line at the intersection of Avondale Way and NE Union Hill Road. Work within Avondale Way will require roadway restoration of the existing concrete panel road.

Scope of Services

We understand the preferred alternative has been selected which includes adding a short pipe section and new manhole on the Metro line. We anticipate our geotechnical engineering scope of services will include the following tasks:

REVIEW AVAILABLE GEOLOGIC AND SUBSURFACE INFORMATION

- Review available geotechnical reports, geologic maps, soil surveys, and information in our files and on public databases regarding subsurface soil and groundwater conditions in the site vicinity. (complete)

PLAN THE EXPLORATION PROGRAM AND OBTAIN PERMITS

- Complete a site visit to review current site conditions, locate a proposed boring, plan traffic control operations, and develop permit applications for completing the boring. We will subcontract the traffic control operations, including preparation of the plans, and obtaining the signs, flaggers, and traffic control supervisor.

- Submit right-of-way permit applications, traffic control plans, and boring exploration plans to the City for review and approval.

FIELD EXPLORATION PROGRAM AND LABORATORY TESTING

- Complete site visits to meet with utility representatives and clear the boring location. This will include completion of the one-call utility locate services and coordinating with Applied Professional Services (APS), a subcontracted private utility locator, to clear existing utilities near the boring.
- Characterize subsurface conditions along the selected alternative by drilling one boring to a depth of approximately 25 to 30 feet or a minimum of 10 feet below trench excavations. The boring will be drilled within the intersection of Avondale Way and NE Union Hill Road.

The field exploration will be completed under the direction of a geotechnical engineer or geologist from our firm. The exploration will be located in the field by measuring or pacing from existing site features such as curbs, structures, and other site features shown on the drawings. Our representative will maintain a detailed log of the boring, including the pavement section and underlying soils and obtain samples of the various materials encountered. Samples will be collected at 2.5- to 5-foot intervals using standard penetration testing (SPT). The samples will be returned to our office for additional examination and analysis.

Soil cuttings will be hauled off site for disposal. We will note groundwater observations during drilling on the boring logs. We have also budgeted for a monitoring well to monitor long-term groundwater levels, as needed.

- Complete geotechnical laboratory testing of select soil samples. We estimate testing will include gradation analyses, percent fines determinations, and moisture content testing. Laboratory testing will be completed in general accordance with applicable ASTM laboratory test methods.

PROVIDE GEOTECHNICAL DESIGN RECOMMENDATIONS

- Describe site conditions, including detailed subsurface soil conditions encountered based on results of the above tasks. Geologic descriptions will be provided based on published information, our experience, and the conditions encountered in the boring.
- Provide geotechnical recommendations for design including:
 - Excavation and temporary slope inclinations for open cuts.
 - Temporary shoring parameters for conventional systems (internally braced slide rails, trench boxes, etc.), including lateral pressures for partial shoring considerations.
 - Earthwork/trenching and stability considerations.
 - Pipe support, including bedding and trench backfill criteria.
 - Suitability of reuse of on-site soils as trench backfill.
 - Construction dewatering considerations, including depth to groundwater observed during drilling, long-term groundwater measurements, as appropriate, and estimated permeability coefficients based on laboratory sieve analyses.
 - Provide seismic design considerations and assessment of liquefaction, if requested, based on available nearby deep boring information.

- Pavement design recommendations for restoration.
- Erosion control considerations during construction.

GEOTECHNICAL REPORT AND DESIGN TEAM MEETINGS

- Provide consultation and attend design team meetings and conference calls, as requested.
- Prepare a design report (draft and final) presenting our conclusions and recommendations along with the supporting boring log, laboratory data, and other appropriate figures.



EXHIBIT A

SCOPE OF SERVICES

City of Redmond – Connection to King County Wastewater System – Avondale Way Redmond, WA

Description of Project/Purpose: The following is TENW's proposed Scope of Services for the Redmond King County Wastewater Improvements project. TENW's scope of work would generally consist of the following:

- o Traffic Signal modifications at the Avondale Way/NE Union Hill Road intersection in order to accommodate King County Sewer Manhole construction.

SCOPE OF WORK

Task 1.0: Project Management and Coordination

1. TENW will attend project team/City coordination meetings as necessary. Three (3) total meetings are assumed for the duration of the project.

Task 6.0: Preliminary and Final Design/Engineering

Scope: TENW will prepare Traffic Signal Modification Construction Documents consistent with City of Redmond standards and specifications. This scope of services and associated fee assumes construction document preparation for 50%/90%/100% PS&E submittal milestones (3 total milestone submittals assumed).

Deliverables:

- Traffic Signal Modification Plan
- Traffic Signal Wiring Diagram
- Traffic Signal Details
- Project Specifications – Special Provisions to WSDOT/APWA standard specifications (Word format)
- Cost Estimate
- Advertisement and bid Support

ASSUMPTIONS & EXCLUSIONS

The following assumptions and exclusions were made in the preparation of this Scope of Services:



1. If the review/permitting agency requires changes not included in the scope of work described herein, this will require a supplement for additional services.
2. All permit/application fees shall be provided by the Client or others. All permits shall be obtained, and all applications shall be submitted by the Client or others.
3. It is assumed that the City of Redmond will be the lead review/permitting agency for this project. All deliverables shall be prepared consistent with City standards and specifications. If review/permitting involvement is required from other jurisdictions, it will require a supplement for additional services.
4. All permitting agency submittals shall be made by the Client or others. TENW will provide the Client with PDF copies of all deliverables for use in making required copies.
5. This Scope of Services does not include construction support services. Construction support services (pre-construction meeting attendance, submittal review, response to RFI's, etc.) can be added upon client request.
6. This Scope of Services does not include Record Drawing/As-Built preparation. Record Drawing/As-Built preparation can be added upon client request.
7. If required, easement and/or right-of-way acquisition coordination shall be provided by others (typically the civil engineer or the owner). If required, legal descriptions will be prepared by others (typically the project surveyor).
8. A topographic and boundary survey of existing conditions in the area will be provided by others, including all necessary information for design purposes. The survey will include existing edges of pavement, roadway centerlines, channelization, sidewalks, driveways, curbs, utilities (above and below ground), right-of-way, easements, elevations, and all other elements of a typical complete topographic and boundary survey for both sides of the road (project side and opposite side). The survey shall include the location of all existing traffic signal poles & luminaire poles, and fixtures within 200-ft of the project limits. The topographic and boundary survey shall also meet the minimum requirements established by the permitting agency.
9. Civil Improvements Plans including sidewalk, curb ramps, drainage, grading, paving, TESC, etc. shall be provided by others.
10. If required, geotechnical and/or structural recommendations associated with traffic signal pole & street light pole foundations shall be provided by others.
11. Should adjustments to existing aerial or subsurface utilities be required to accommodate a new traffic signal and/or street light system, all necessary coordination with utility providers shall be provided by others (typically the developer/owner or Civil Engineer).
12. If applicable to the permitting agency, TENW will provide the Client with forms necessary for electrical service application. It is the responsibility of the Client to submit the forms and to notify the contractor of the power source location for bidding purposes. TENW will include the power source location on the construction documents ONLY if this information is forwarded to TENW by the Client once received from the electrical service provider.
13. If required by the permitting agency or others, potholing for signal pole locations, street light pole locations, or other subsurface conflicts shall be completed by others by contract with the Client. TENW will provide CAD files to the Client for their use in staking the location of proposed signal poles, street light poles, and other elements related to TENW's scope of work.

City of Redmond
 Connection to King County Wastewater System - Avondale Way
 Proposal Hours Estimate
 1/16/2026

Task	Primary Services	PIC/Sr. PM Civil	Civil Engineer X	Engineering Designer V	Engineering Technician V	Landscape Architect V	PIC/ PLS Sr. Manager	Survey Crew Chief II	Survey Office Technician IV	Survey Field Technician III	Project Coordinator II	Otak Total Hours	Otak Total Budget by Sub task Break down	GeoEnginee rs Budget by Task	TENW Budget by Task	Total Task Budgets
1.0	Project Management and Coordination															\$ 17,393.30
1.1	Coordination with the City	15	13									28	\$ 7,701			
1.2	Project Management Plan	8	4								4	16	\$ 3,986.42			
1.3	Project Monitoring and Reporting	12									14	26	\$ 5,706.17			
3.0	Geotechnical Investigation															\$ 38,003.06
3.2	Geotechnical Investigation and Analysis (Sub-GeoEngineers)											0	\$ -	\$ 37,216		
3.3	Geotechnical Review and Coordination	1	2									3	\$ 787.25			
4.0	Topographic Survey and Basemap															\$ 10,829.41
4.1	Topographic Survey and Basemap for Design		4	8	4		5	20	16	20		77	\$ 10,829.41			
5.0	Utility Coordination											0	\$ -			\$ 5,303.30
5.1	Franchise Utility Coordination/Plan		4	20								24	\$ 4,177.77			
5.2	Potholing Coordination		2	4								6	\$ 1,125.53			
5.3	Potholing Service (Vendor - APS)											0	\$ -			
6.0	PRELIMINARY AND FINAL DESIGN/ENGINEERING															
6.1	Design Review Meetings	2	8	8								18	\$ 3,825.56			\$ 3,825.56
6.2	Preparation of 50% Design															\$ 13,714.49
6.2.1	50% Plans	2	14	28	14	4						62	\$ 11,107.13			
6.2.2	50% Opinion of Probable Cost		4	8		2						14	\$ 2,607.36			
6.3	Preparation of 90% Design															\$ 43,815.34
6.3.1	90% Plans	4	18	36	20	4						82	\$ 14,783.78			
6.3.2	90% Opinion of Probable Cost	1	5	16		2						24	\$ 4,437.43			
6.3.3	90% Special Provisions	3	12	22		2				8	47	\$ 8,876.65				
6.4	100% Plans, Specifications, and Opinion of Probable Cost	4	12	18	8	4				8	54	\$ 9,984.90				
6.5	Bid Documents		4	8						4	16	\$ 2,839.28				
7.0	Advertisement and Bid Support		4	12								16	\$ 2,893.30			
8.0	Traffic Signal Restoration (Sub-TENW)											0	\$ -		\$ 15,310	\$ 15,310.48
9.0	Optional Construction Engineering Support Services											0	\$ -			\$ -
050	Reimbursables												\$ -			\$ 12,400.00
051	Management Reserve Contingency												\$ -			\$ 15,000
		52	110	188	46	18	5	20	16	20	38	513				
		\$304	\$242	\$161	\$136	\$178	\$260	\$126	\$144	\$95	\$147					
Totals		\$15,805	\$26,581	\$30,185	\$6,269	\$3,207	\$1,301	\$2,526	\$2,301	\$1,906	\$5,588	\$ 95,669	\$ 37,216	\$ 15,310		\$ 175,595

Exhibit D

Consultant Fee Determination

Project Name: Connection to King County Wastewater System - Avondale Way
 Project Number: 022289.000
 Consultant: Otak, Inc.

NEGOTIATED HOURLY RATES

Classification	Hours	DSC	Overhead		Fee	Total	Total
			173%	27%	(Profit)	Hourly	
Sr. PIC/Sr. PM Civil	0	\$ 112.00	\$194.00	\$30.13	\$336	\$336	\$0
PIC/Sr. PM Civil	52	\$ 101.28	\$175.43	\$27.24	\$304	\$304	\$15,805
Civil Engineer X	110	\$ 80.52	\$139.47	\$21.66	\$242	\$242	\$26,581
Civil Engineer IX	0	\$ 75.12	\$130.12	\$20.21	\$225	\$225	\$0
Civil Engineer VIII	0	\$ 68.78	\$119.13	\$18.50	\$206	\$206	\$0
Civil Engineer VII	0	\$ 66.45	\$115.10	\$17.88	\$199	\$199	\$0
Civil Engineer VI	0	\$ 61.90	\$107.22	\$16.65	\$186	\$186	\$0
Civil Engineer V	0	\$ 55.96	\$96.93	\$15.05	\$168	\$168	\$0
Civil Engineer IV	0	\$ 51.00	\$88.34	\$13.72	\$153	\$153	\$0
Civil Engineer III	0	\$ 47.32	\$81.96	\$12.73	\$142	\$142	\$0
Civil Engineer II	0	\$ 45.56	\$78.91	\$12.26	\$137	\$137	\$0
Civil Engineer I	0	\$ 37.00	\$64.09	\$9.95	\$111	\$111	\$0
Engineering Designer V	188	\$ 53.50	\$92.67	\$14.39	\$161	\$161	\$30,185
Engineering Designer IV	0	\$ 46.27	\$80.14	\$12.45	\$139	\$139	\$0
Engineering Designer III	0	\$ 42.95	\$74.39	\$11.55	\$129	\$129	\$0
Engineering Designer II	0	\$ 40.31	\$69.82	\$10.84	\$121	\$121	\$0
Engineering Designer I	0	\$ 37.45	\$64.87	\$10.07	\$112	\$112	\$0
Engineering Technician VII	0	\$ 58.00	\$100.46	\$15.60	\$174	\$174	\$0
Engineering Technician VI	0	\$ 51.67	\$89.50	\$13.90	\$155	\$155	\$0
Engineering Technician V	46	\$ 45.41	\$78.65	\$12.22	\$136	\$136	\$6,269
Engineering Technician IV	0	\$ 41.20	\$71.36	\$11.08	\$124	\$124	\$0
Engineering Technician III	0	\$ 33.00	\$57.16	\$8.88	\$99	\$99	\$0
Engineering Technician II	0	\$ 28.00	\$48.50	\$7.53	\$84	\$84	\$0
Engineering Technician I	0	\$ 24.00	\$41.57	\$6.46	\$72	\$72	\$0
Sr. PIC/Sr. PM LA/Master Planner	0	\$ 112.00	\$194.00	\$30.13	\$336	\$336	\$0
PIC/Sr. PM LA/Master Planner	0	\$ 93.75	\$162.38	\$25.22	\$281	\$281	\$0
Landscape Architect VII	0	\$ 69.45	\$120.29	\$18.68	\$208	\$208	\$0
Landscape Architect VI	0	\$ 62.00	\$107.39	\$16.68	\$186	\$186	\$0
Landscape Architect V	18	\$ 59.36	\$102.82	\$15.97	\$178	\$178	\$3,207
Landscape Architect IV	0	\$ 54.73	\$94.80	\$14.72	\$164	\$164	\$0
Landscape Architect III	0	\$ 49.76	\$86.19	\$13.39	\$149	\$149	\$0
Landscape Architect II	0	\$ 44.00	\$76.21	\$11.84	\$132	\$132	\$0
Landscape Architect I	0	\$ 40.00	\$69.28	\$10.76	\$120	\$120	\$0
Planner VI	0	\$ 67.55	\$117.00	\$18.17	\$203	\$203	\$0
Planner V	0	\$ 61.14	\$105.90	\$16.45	\$183	\$183	\$0
Planner IV	0	\$ 55.58	\$96.27	\$14.95	\$167	\$167	\$0
Planner III	0	\$ 50.97	\$88.29	\$13.71	\$153	\$153	\$0
Planner II	0	\$ 44.00	\$76.21	\$11.84	\$132	\$132	\$0
Planner I	0	\$ 39.00	\$67.55	\$10.49	\$117	\$117	\$0
Planner Associate IV	0	\$ 40.04	\$69.35	\$10.77	\$120	\$120	\$0
Planner Associate III	0	\$ 37.10	\$64.26	\$9.98	\$111	\$111	\$0
Planner Associate II	0	\$ 33.75	\$58.46	\$9.08	\$101	\$101	\$0
Planner Associate I	0	\$ 30.33	\$52.53	\$8.16	\$91	\$91	\$0
Sr. GIS Specialist - Planner	0	\$ 51.82	\$89.76	\$13.94	\$156	\$156	\$0
GIS Specialist- Planner	0	\$ 45.00	\$77.94	\$12.11	\$135	\$135	\$0
PIC/Scientist	0	\$ 80.28	\$139.05	\$21.60	\$241	\$241	\$0
Scientist VI		\$ 70.00	\$121.25	\$18.83	\$210	\$210	\$0
Scientist V	0	\$ 60.00	\$103.93	\$16.14	\$180	\$180	\$0
Scientist IV	0	\$ 52.50	\$90.94	\$14.12	\$158	\$158	\$0
Scientist III	0	\$ 45.00	\$77.94	\$12.11	\$135	\$135	\$0
Scientist II	0	\$ 40.01	\$69.30	\$10.76	\$120	\$120	\$0

Scientist I	0	\$ 36.37	\$63.00	\$9.78	\$109	\$0
Environmental Specialist		\$ 49.75	\$86.17	\$13.38	\$149	\$0
Construction Manager VI		\$ 73.81	\$127.85	\$19.85	\$222	\$0
Construction Manager V		\$ 70.00	\$121.25	\$18.83	\$210	\$0
Construction Manager IV		\$ 63.57	\$110.11	\$17.10	\$191	\$0
Construction Manager III		\$ 57.14	\$98.97	\$15.37	\$171	\$0
Construction Manager II		\$ 54.50	\$94.40	\$14.66	\$164	\$0
Construction Manager I		\$ 49.21	\$85.24	\$13.24	\$148	\$0
Field Representative VII		\$ 61.12	\$105.87	\$16.44	\$183	\$0
Field Representative VI		\$ 55.00	\$95.27	\$14.80	\$165	\$0
Field Representative V		\$ 50.00	\$86.61	\$13.45	\$150	\$0
Field Representative IV		\$ 46.35	\$80.28	\$12.47	\$139	\$0
Field Representative III		\$ 41.27	\$71.48	\$11.10	\$124	\$0
Field Representative II		\$ 37.25	\$64.52	\$10.02	\$112	\$0
Field Representative I		\$ 33.50	\$58.03	\$9.01	\$101	\$0
CM Documentation Specialist III		\$ 46.30	\$80.20	\$12.46	\$139	\$0
CM Documentation Specialist II		\$ 42.86	\$74.24	\$11.53	\$129	\$0
CM Documentation Specialist I		\$ 39.68	\$68.73	\$10.67	\$119	\$0
Sr. PIC/ PLS Sr. Manager	0	\$ 112.00	\$194.00	\$30.13	\$336	\$0
PIC/ PLS Sr. Manager	5	\$ 86.68	\$150.14	\$23.32	\$260	\$1,301
Professional Land Surveyor V	0	\$ 66.67	\$115.48	\$17.93	\$200	\$0
Professional Land Surveyor IV	0	\$ 63.43	\$109.87	\$17.06	\$190	\$0
Professional Land Surveyor III	0	\$ 57.93	\$100.34	\$15.58	\$174	\$0
Professional Land Surveyor II	0	\$ 54.00	\$93.53	\$14.53	\$162	\$0
Professional Land Surveyor I	0	\$ 49.57	\$85.86	\$13.33	\$149	\$0
Survey Crew Chief III	0	\$ 49.57	\$85.86	\$13.33	\$149	\$0
Survey Crew Chief II	20	\$ 42.09	\$72.90	\$11.32	\$126	\$2,526
Survey Crew Chief I	0	\$ 32.21	\$55.79	\$8.66	\$97	\$0
Survey Office Technician IV	16	\$ 47.91	\$82.98	\$12.89	\$144	\$2,301
Survey Office Technician III	0	\$ 42.86	\$74.24	\$11.53	\$129	\$0
Survey Office Technician II	0	\$ 34.29	\$59.39	\$9.22	\$103	\$0
Survey Office Technician I	0	\$ 30.79	\$53.33	\$8.28	\$92	\$0
Survey Field Technician III	20	\$ 31.75	\$54.99	\$8.54	\$95	\$1,906
Survey Field Technician II	0	\$ 28.00	\$48.50	\$7.53	\$84	\$0
Survey Field Technician I	0	\$ 25.00	\$43.30	\$6.73	\$75	\$0
Project Coordinator III	0	\$ 51.48	\$89.17	\$13.85	\$154	\$0
Project Coordinator II	38	\$ 49.00	\$84.87	\$13.18	\$147	\$5,588
Project Coordinator I	0	\$ 42.44	\$73.51	\$11.42	\$127	\$0
Graphics Specialist	0	\$ 42.36	\$73.37	\$11.39	\$127	\$0
Project Admin Assist	0	\$ 38.00	\$65.82	\$10.22	\$114	\$0
Total Hours	513				Subtotal:	\$95,669

REIMBURSABLES

Mileage						\$100
Reproduction (copies, plots, etc.)						\$500
Miscellaneous						\$300
Survey Traffic Control Vendor						\$2,000
Utility Locate Vendor (APS)						\$1,500
Potholing Vendor (APS)						\$8,000
					Subtotal:	\$12,400

SUBCONSULTANT COSTS (See Exhibit E)

GeoEngineers, Inc.						\$37,216
TENW						\$15,310
					Subtotal:	\$52,526

Total: \$160,595

Contingency: \$15,000

GRAND TOTAL: \$175,595

EXHIBIT E

Subcontracted Work

Project Name: Connection to King County Wastewater System - Avondale W
Project Number: 022289.000
Consultant: Otak, Inc.

The City permits subcontracts for the following portions of work of the Agreement:

Subconsultant	Work Description	Amount
GeoEngineers, Inc.	Geotechnical Investigation and Analysis	\$37,216
TENW	Traffic Signal Restoration	\$15,310
	Total:	\$52,526

Exhibit E1

Consultant Fee Determination

Project Name: Connection to King County Wastewater System - Avondale Way
 Project Number: 022289.000
 Subconsultant: **GeoEngineers, Inc.**
 Work Description: **Geotechnical Investigation and Analysis**

NEGOTIATED HOURLY RATES

Classification	Hours	DSC	Overhead		Total Hourly Rate	Total
			201%	Fee (Profit) 25%		
Principal	0	\$ 90.44	\$182.11	\$22.84	\$295	\$0.00
Associate	6	\$ 83.09	\$167.31	\$20.98	\$271	\$1,628.28
Senior Engineer/ Scientist 2	30	\$ 67.41	\$135.74	\$17.02	\$220	\$6,605.03
Senior Engineer/ Scientist 1	0	\$ 59.67	\$120.15	\$15.07	\$195	\$0.00
Project Engineer/ Scientist 2	20	\$ 55.73	\$112.22	\$14.07	\$182	\$3,640.40
Staff Engineer/ Scientist 3	28	\$ 46.49	\$93.61	\$11.74	\$152	\$4,251.55
Staff Engineer/ Scientist 2	0	\$ 44.97	\$90.55	\$11.35	\$147	\$0.00
GIS Analyst	4	\$ 50.32	\$101.32	\$12.71	\$164.35	\$657.40
CAD Designer	4	\$ 55.27	\$111.29	\$13.96	\$180.52	\$722.07
Admin 3	4	\$ 43.87	\$88.34	\$11.08	\$143.28	\$573.14
Admin 1	3	\$ 27.04	\$54.45	\$6.83	\$88.32	\$264.95
			\$0.00	\$0.00	\$0.00	\$0.00
			\$0.00	\$0.00	\$0.00	\$0.00
			\$0.00	\$0.00	\$0.00	\$0.00
			\$0.00	\$0.00	\$0.00	\$0.00
Total Hours	99				Subtotal:	\$18,343

REIMBURSABLES

Mileage	\$25
Reproduction (copies, plots, etc.)	\$0
Lab Testing	\$1,000
Traffic Control Subcontractor	\$5,200
Drilling and Private Locate Subcontractors	\$8,500
Subtotal:	\$14,725

Total: \$33,068

Contingency: \$4,148

GRAND TOTAL: \$37,216

Exhibit E2

Consultant Fee Determination

Project Name: Connection to King County Wastewater System - Avondale Way
 Project Number: 022289.000
 Subconsultant: **TENW**
 Work Description: **Traffic**

NEGOTIATED HOURLY RATES

Classification	Hours	DSC	Overhead	Fee	Total	Total
			150%	(Profit) 27%	Hourly Rate	
Principal	20	\$ 107.88	\$161.82	\$28.80	\$299	\$5,970
Senior PM	4	\$ 86.71	\$130.07	\$23.15	\$240	\$960
Engineer 2	60	\$ 50.48	\$75.72	\$13.48	\$140	\$8,381
Total Hours		84			Subtotal:	\$15,310
REIMBURSABLES						
Mileage						
Reproduction (copies, plots, etc.)						
Miscellaneous						
					Subtotal:	
					Total:	\$15,310