



City of Arlington Council Agenda Bill

Item:
NB #3
Attachment
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COUNCIL MEETING DATE:	
December 2, 2019	
SUBJECT:	
Contract with SCJ Alliance for Island Crossing Roundabout Design	
ATTACHMENTS:	
<ul style="list-style-type: none"> - Scope of Work and Fee from SCJ Alliance for Island Crossing Roundabout Design - Island Crossing Roundabout Conceptual Plan 	
DEPARTMENT OF ORIGIN	
Public Works – Jim Kelly	
EXPENDITURES REQUESTED:	\$268,025.00
BUDGET CATEGORY:	Transportation Improvement Fund
BUDGETED AMOUNT:	\$257,000 Budgeted 2020 (<i>amendment will be done after final costs are known due to expedited schedule of this project</i>)
LEGAL REVIEW:	
DESCRIPTION:	
Staff is requesting to enter into contract with SCJ Alliance for design work on the roundabout for the Island Crossing intersection near the Pilot Truck stop.	
HISTORY:	
<p>In 2011, SCJ was hired by the Stillaguamish Tribe to plan a roundabout in Island Crossing at the SR-530 and Smokey Point Blvd (SPB) Intersection. Following extensive growth in vehicle traffic on SR-530, the City contracted with SCJ in Feb 2019 to design a channelization plan and temporary signal for the SR-530 and SPB intersection; this temporary signal will provide safe vehicle movement while concerned parties continue working toward a permanent solution.</p> <p>The City of Arlington, Snohomish County and the Stillaguamish Tribe of Indians have partnered together to work with WSDOT to construct a roundabout at this intersection; the City of Arlington is taking the lead role in this partnership. Public Works is requesting to contract with SCJ to advance the conceptual design and develop a set of construction documents for construction in 2020.</p>	
ALTERNATIVES:	
- Remand to staff for further consideration	
RECOMMENDED MOTION:	
I move to accept the SCJ Alliance scope of work and fee and to authorize the Mayor to sign the contract with SCJ Alliance, pending final approval by the City Attorney.	

EXHIBIT A

DRAFT - SCOPE OF WORK

SR 530 / Smokey Point Blvd Intersection Improvement Project

Preliminary and Final Design

For City of Arlington

Prepared for: James Kelly, PE

Prepared By: Dan Ireland PE, Principal

Date prepared: November 18, 2019

Overview

This project will provide preliminary/final design engineering and environmental services associated with the roadway improvements to SR 530 and Smokey Point Boulevard. The Triangle Area is bounded by SR 530 to the north and Smokey Point Boulevard Roadway to the east and west, and lies within a portion of the city limits of Arlington (City) to the west and south, and Snohomish County (SNOCO) to the north.

The scope of work includes a roundabout intersection design that includes the realignment of Smokey Point Boulevard (east spur) and also provide access to property north of SR 530 owned by the Tribe. Included is the preparation of preliminary and final contract documents for the intersection and roadway improvements, preparing and obtaining approval for environmental documents and permit applications, and coordination with utility companies for any relocation of dry utilities (power and communications).

It is the City's desire to move the design approval expeditiously as quickly as possible. The Washington State Department of Transportation (WSDOT) typically requires an Intersection Control Evaluation (ICE) in accordance with the WSDOT Design Manual Chapter 1300. It is understood the City has had preliminary discussions with WSDOT regarding the appropriate intersection control treatment for the realignment of Smokey Point Boulevard onto SR 530 and was receptive to a roundabout. City staff will be leading all negotiations with the Tribe for properties and rights of access. This estimate and task items is based upon the project receiving no federal funding.





Phase 1 Project Management

This phase includes tasks to plan, manage, and administer the work; attend project meetings provide quality assurance/quality control.

Task 1 Management

- 1) Overall Management: Manage the project by directing and supervising staff and reviewing work for the duration of the project. This management is for the overall work rather than specific tasks.
- 2) Schedule and Budget: Develop a critical path project schedule to match the scope of work. Identify task durations, predecessors, Agency reviews, deliverables, and milestones. Review and update the schedule on a monthly basis. Monitor earned value and actual costs on a bi-monthly basis.
- 3) Coordination: Coordinate with other consultants hired by the City (e.g. geotechnical, wetland, surveyors, etc.).

Task 2 Administration

- 1) Progress Reports: Prepare and submit a monthly progress report. Progress reports will show: (1) prior work performed, (2) current work planned, (3) schedule and budget status (including a 3-line earned value chart), (4) a summary of scope changes/added value, and (5) items needed from the City or others.
- 2) Progress Billings: Prepare a monthly progress bill with monthly progress reports attached.
- 3) Subcontractor Contracting: Coordination with subcontractors on project contracting and billing.

Understanding

- Project management will be provided through 2020 (over 12 months), and the estimated number of meetings and project coordination is reflected in the budget.
- Progress billings will be submitted monthly.
- Timelines and milestones will be outlined in a master schedule using Microsoft Project.

Deliverables

- Bi-Monthly (Every 2 weeks) Progress Report
- Progress billings submitted monthly
- MS Project schedule/updates
- Miscellaneous correspondence



Phase 2 Project Meetings

To keep the project moving at an accelerated rate, SCJ will push for in person and remote meetings at a set frequency with each major stakeholder (City, Tribe, County, WSDOT). We will be efficient with our methodology by using online formats when appropriate. Meeting for the following phases in this scope of work are included and are specifically identified under Phase 2 tasks. Meeting summaries are included.

Task 1 City Meetings

- 1) City Management Meetings: The number of meetings is based on meeting an average of one time a month within a 12-month duration. We estimate that these meeting will be a conference call with a shared web screen. In person meetings will be conducted in the following meetings listed below. (12 meetings)

These meetings include participation with WSDOT, the Tribe, and SNOCO. The City will also be participants in these meetings and are separate from meetings identified under Task 1.

- 2) Channelization Review Meeting: This is a WSDOT required meeting to start the roundabout geometric phase. The meeting will review initial channelization with AutoTurn exhibits. This meeting will be one of the first meetings and will occur during Phase 3.
- 3) Traffic Forecast Meeting: Meet with the CITY, WSDOT, SNOCO and the Tribe to discuss the applicability of volume forecasts to the SR 530 Smokey Point Boulevard Intersection project. This meeting will occur during Phase 3.
- 4) ICE Meeting: Meet with WSDOT to review the draft traffic analysis under Phase 3. Confirm alternative methods for inclusion in the alternatives analysis and right-sized approach to ICE report.
- 5) Agency Review Meetings: Attend up to four (4) other meetings with WSDOT, SNOCO, Tribe, and the CITY for the purpose of discussions reviews comments during preliminary and final design.
- 6) Public Utility Company Meetings: Meet with the public utility companies up to two (2) times to provide project awareness and to access potential conflicts and impacts. A second meeting will be conducted for final coordination efforts and notification.

Task 2 Meeting Preparation and Summaries

- 1) Meeting Preparation and Summaries: Prepare meeting agendas and summaries for each meeting identified under Tasks 1 and 2, twenty (20) meetings total.

Deliverables

- Meeting Agendas and Summaries

Phase 3 Intersection Control Evaluation (ICE)

This phase consists of an alternatives analysis to determine the preferred method for intersection control at SR 530 and Smokey Point Boulevard, and preparation of an Intersection Control Evaluation technical memorandum to document the alternatives analysis work.



Task 1 *Traffic Analysis*

- 1) Data Review: Collect and review available traffic volume forecasts prepared.
- 2) Forecast Meetings: Confirm with the CITY, WSDOT, and the Tribe time to discuss the applicability of volume forecasts to the project (see meeting Phase 2, Task 1).
- 3) Traffic Volume Forecasts: Based on meetings with the key stakeholders prepare a technical memorandum for inclusion in the Intersection Control Evaluation Report. The memorandum will document the basis for traffic volume forecasts at the intersection for AM and PM peak periods.
- 4) Operational Analysis: Prepare intersection operational analysis for current year, interim horizon and design year horizon with existing intersection geometry and control. Prepare design year horizon intersection analysis for proposed intersection geometry and control. The following intersections types will be included:
 - Existing (as is)
 - Traffic Signal
 - Roundabout (may include a bypass lane)

Prepare a technical memorandum describing the operational analysis methods and results for inclusion in the Intersection Control Evaluation Report.

- 5) Signal Warrant Analysis: The recently approved ICE for the SR530/Smokey Point Blvd will be the basis of the signal warrant required for the Roundabout ICE.

Task 2 *Alternatives Analysis*

- 1) ICE Meeting: Meet with the Tribe, CITY and WSDOT Northwest Region to review the traffic analysis performed under Task 1 (see meeting Phase 2, Task 1).
- 2) Intersection Layout: SCJ will reconfirm geometric design used for the 2014 conceptual layout. This will reconfirm footprint and repair 20-scale drawings to a preliminary Channelization Plan for Approval level to illustrate the alternative designs.
- 3) Environmental Scan: Conduct a site visit to evaluate the project considering anticipated SEPA documentation and permitting requirements. Identify the appropriate level of SEPA documentation and the environmental permits required. Prepare a technical memorandum documenting environmental opportunities and constraints.
- 4) Alternative Evaluation: Compare alternatives using the following criteria:
 - Operations – delay, level of service, queuing
 - Right of way impacts
 - Environmental impacts
 - Access management/property access
 - Accommodation of bicycles and pedestrians
 - Cost
- 5) Prepare an Intersection Control Evaluation Report based on WSDOT Design Manual Chapter 1300 using the data and work performed under this Phase 30. Sections will include:



- Existing Conditions
- Delay Analysis
- Operational Considerations
- Benefit/Cost Analysis
- Bicycle/Pedestrian Facilities
- Alternatives Analysis Summary
- Public Involvement
- Identification of the recommended intersection design alternative
- Traffic volume forecasting (appendix)
- Signal warrant analysis (appendix)
- Operational analysis methodology (appendix)

Include appendices for technical memorandums prepared for traffic volume forecasting, operations analysis, and signal warrant analysis.

Understanding

- Task 1 does not include work to refine and/or adjust existing travel demand models.
- Traffic counts from Temporary Traffic Signal ICE will be usable for report. If additional are required, an amendment to this contract will be required to gain additional data.
- Design year is 2040 per WSDOT.
- City will provide new traffic data counts and projections.

Deliverables

- Technical memorandum documenting the environmental scan
- Intersection Control Evaluation Report

Phase 4 Preliminary Engineering

It is assumed that the preferred intersection control treatment will be a roundabout intersection similar to that shown on the attached exhibit. The object of this phase is to prepare preliminary roadway, drainage, roundabout, channelization and grading designs to a level of enough detail to establish the basis for final design and project footprint.

Task 1 Preliminary Design

The preliminary design phase will be run

- 1) Base Map: SCJ will continue with the topographic survey base map developed from 2014 by Axis Surveying. If additional survey is required due to site changes, SCJ will acquire an amendment from Axis Surveying to collect additional topographic data and merge it with the existing surface.
- 2) Site Visit: Walk the site and provide photo documentation of the project. Verify base map identified in (1).
- 3) Preliminary Layout: Update the concept roundabout to discuss with the CITY and WSDOT staff. Concept shall include:



- Lane Widths
 - Entry and Exit angles and radii
 - Taper Lengths and queuing for all entry approaches
 - Splitter Island Design
 - Bicycle and Pedestrian amenities
 - Existing roadway alignments, topography and known environmental constraints
- 4) Design Vehicle Analysis: Re-confirm the design vehicle for each leg of the intersection and provide truck turning movements through preliminary RAB layout.
 - 5) Preliminary Grading: Prepare a preliminary grading concept identifying proposed roadway, roundabout grades as well as catch slopes and approximate earthwork quantities.
 - 6) Smokey Point Boulevard Realignment Design: establish a horizontal centerline and vertical alignment for the realignment of Smokey Point Boulevard. Identify catch slopes and determine right-of-way requirements.
 - 7) 27th Avenue Realignment Design: establish a horizontal centerline and vertical alignment for the realignment of 27th Avenue owned by Snohomish County. Identify catch slopes and determine right-of-way requirements.

Task 2 Preliminary Right of Way Plan:

- 1) Prepare a preliminary right of way plan identifying existing and required right of way impacts. Plan shall include right of way dedications necessary for all grading activities and proposed stormwater facilities.
- 2) Coordination between SCJ and Right of Way consultant.

Task 3 Summary of Design:

- 1) Prepare a Summary of Design memorandum which shall contain a compilation and summary of key decisions and results of each task completed as part of the preliminary design effort. WSDOT's Summary of Design packet for Local Programs Reviewed Projects on State Route.

Task 4 Preliminary Lighting:

- 1) Prepare preliminary lighting plan. Includes lighting calculations using AGI32 software.

Task 5 Preliminary Utility Plan

- 1) Identify all private utility stakeholders
- 2) Setup a plan sheet to identify joint utility trench alignments for coordination for power, telephone, and fiber utilities. Other utilities (water, sewer, gas) will be designed by others or can be included into this scope of work by an amendment.
- 3) Coordinate infrastructure sizes and number of conduits. The contract plans developed by SCJ will identify the conduit schedule and vaults to be placed by the contractor. Fiber and power lines will be designed, detailed, and installed by the utility owner.



Task 6 *Intersection Channelization Plan for Approval*

The following is the content required to achieve an approved WSDOT Intersection Channelization Plan. These plan sheets are not the same as construction document drawings. These plans are in a different format and identify the basis of geometric design for WSDOT approval. This approval allows SCJ to confirm the footprint of the design and begin construction documents.

- 1) Roundabout Geometric Data: Prepare the following for submittal:
 - Identify approach design speeds for all approach legs, per the conceptual RAB review meeting.
 - Identify the design vehicle for all approach legs, per the conceptual RAB review meeting.
 - Prepare a table summarizing the roundabout design details, including inscribed diameter, central island diameter, truck apron width, fastest path (radius and speed) for each approach, and super elevation of the circulating roadway.
 - Provide detailed drawings showing the fastest paths for each movement.
 - Provide a table summarizing stopping and intersection sight distance on each leg.
 - Provide auto turn paths showing design vehicle, WB-67 and largest oversize vehicle movements.
- 2) Splitter Island Details: Prepare detailed drawings of the splitter geometry on each leg of the intersection.
- 3) Preliminary Channelization: Prepared preliminary drawings of the proposed roadway striping. This channelization includes the approach roads of Smokey Point Boulevard east and west leg.
- 4) Preliminary Signing: Prepare preliminary permanent signing plan.
- 5) Preliminary Curb Plan: Identify type of concrete curbing to be used on the RAB.
- 6) Central Island Design: Prepare preliminary drawings of the central island geometry.
- 7) Bicycle and Pedestrian Design: Prepare preliminary drawings of the bicycle and pedestrian amenities including ADA requirements.
- 8) Review Checklist: Prepare a WSDOT RAB review checklist.
- 9) Submittal #1: Submit Geometric Approval Package to WSDOT for review and comment.
- 10) Submittal #2: Incorporate WSDOT comments and submit second round of PFA and Geometric Approval Data for review.
- 11) Final Submittal: Incorporate 2nd round of WSDOT comments and resubmit final PFA and Geometric Approval Data for review and approval.

Task 7 *Preliminary Cost Estimate*

- 1) Cost Estimate
 - Develop quantities based on the preliminary plans.



- Assign unit costs for quantified items and assign lump sum costs to other items based on professional judgment.
- Develop a preliminary construction estimate.

Understanding

- A topographic base map in AutoCAD will be provided by others.
- It is assumed the alternatives analysis for the intersection will determine that a RAB is the appropriate control for the intersection.
- The RAB planning and design tasks will follow the prescribed WSDOT approval process outlined in Chapter 1320 of the WSDOT Design Manual.
- Utility improvement plan will
- Right of way services for negotiation, appraisal, review, and acquisition will be by others.
- Preliminary Design of any retaining wall structures will not be required.
- Preliminary stormwater design will be based either on SCS Soil Maps and knowledge of the area; or actual geotechnical investigations if completed at the time of this phase of work.
- Roadway Structural Design will not be completed at this time. A standard pavement section matching the existing section of SR 530 and Smokey Point Boulevard will be assumed for the purposes of the cost estimate. Final roadway structural design will be completed by the geotechnical engineer, or surfacing depths provided by WSDOT.
- Formal Right-of-Way plans will be performed by others.

Deliverables

- RAB PFA and Geometric Approval Package
- Preliminary Design Concepts Including:
 - Preliminary Grading and Drainage
 - Preliminary Right of Way Plan
 - Preliminary Utility Plan
 - Preliminary Cost Estimate
- WSDOT Summary of Design Package
- Preliminary Smokey Point Boulevard Roadway plans

Phase 5 Environmental Permitting

Several environmental permits will be required for construction of the project to commence. The northern approach is a Snohomish County roadway. Environmental permitting effort is included under the following tasks.

Task 1 State Environmental Protection Act (SEPA)

- 1) SEPA Permit: It is assumed the City will be the permitting authority for SEPA. A draft and final SEPA application will be prepared and submitted for approval.
- 2) Assist with graphic exhibits for project.
- 3) Comment review and responses to comments.



- 4) Depending on feed back from the SEPA determination and responses by the public, additional environmental studies may be required outside this scope of work.

Task 2 *Shoreline Substantial Development*

- 1) Shoreline Permit: The proposal lies within a rural shoreline environment and is subject to compliance with Chapter 30.44 SCC and the applicable policies and regulations. The Shoreline permit will satisfy the shoreline completeness criteria under SCC 30.44.210. A biological assessment will be prepared and as part of the permit effort.

Attached to the Shoreline permit is a secondary, albeit separate, permit called a Flood Hazard Permit. A flood hazard permit will be obtained pursuant to SCC 30.65.200 and SCC 30.65.210 for work that will be taking place in the floodway fringe. SCJ will determine if there is a federal nexus for this project and a Section 7 consultation. If there is no federal nexus then a Habitat Management Plan (pursuant to SCC 30.62.110 & SCC 30.62A.460) will be submitted to outline avoidance, minimization and mitigation measures for impacts on primary association areas of ESA-listed species.

Task 3 *Land Disturbing Activity*

- 1) LDA Meeting: The substantial body of guidance for Land Disturbing Activities within the Snohomish SNOCO Drainage Manual requires A Land Disturbing Activity Permit (LDA) that applies to grading and drainage for projects.

The permit application is initiated through an in-person meeting with SNOCO staff. A representative from the City will be invited to the meeting (see Phase 2, Task 1).

- 2) SCJ will coordinate with SNOCO staff to assure that all permit approval criteria for a LDA Permit listed at 30.63B.050 (1) are met. Included with the LDA will be a Storm Water Pollution Prevention Plan (SWPPP) pursuant to SCC 30.63A and 30.63B for an erosion control certification by the SNOCO, and also an NPDES application.

Task 4 *DOE NOI Permit*

SCJ will submit to WSDOE the notice of intent for construction stormwater permit on behalf of the City.

Understanding

- Permit Fees are not included. The City will pay permitting fees.
- NEPA requirements are not included as part of this scope due to no federal nexus.
- City is the acting SEPA lead agency.
- If National Marine Fisheries Service (NMFS) requires Section 7 consultation, that work will be estimated under a separate scope of work.
- An Environmental Assessment (EA) or Environmental Impact Statement (EIS) will not be required.
- Flood zone compensatory storage is available within the project footprint.
- The re-alignment of 27th Avenue does not extend far enough north to trigger Snohomish County regulatory review.
- A hazardous material or environmental justice report will not be required.



Deliverables

- Land Disturbing Activity Permit (LDA) (includes Land Erosion Control Certification/SWPPP/NPDES)
- Substantial Shoreline Development Permit (includes Flood Hazard Permit and Biological Assessment)
- SEPA Permit
- City will identify the compensatory property if outside the project limits and will need to be assessed if additional environmental permitting or process is required to this scope of work.

Phase 6 Cultural Resources

Task 1 Area of Potential Effect

SCJ will develop the Area of Potential Effect (APE) identifying the project footprint and impact area. This exhibit will be submitted to WSDOT and the Tribe for initial review to determine if any further action is required. A cultural resources survey will be provided by a City selected consultant.

Phase 7 Hydraulic Report

The project is located within the 100-year flood plain. Stormwater management will be a critical component of the design of the roundabout and realignment of Smokey Point Boulevard. This phase includes the preparation of a drainage report and supporting design documents.

Task 1 Stormwater Scoping

- 1) Background Data: Confirm FEMA flood zones area and impacts as it relates to the updated project footprint. Meet with WSDOT, CITY and Tribe to discuss location of stormwater treatment facility location.
- 2) Stormwater Modeling: Prior to beginning modeling of the proposed improvements, meet with WSDOT, CITY and Tribe to determine the appropriate criteria and modeling software to be used for the project. Once the criteria for analysis has been determined, perform a hydrologic model of the existing and proposed land use conditions for the limits of disturbance to determine the treatment and flow control requirements. Determine preliminary footprint size of water quality and flow control facilities.
- 3) Stormwater Layout: Prepare plan and profile sheets to a preliminary design level for the stormwater improvements. Show the plan view footprint of water quality and flow control facilities.
- 4) Stormwater Scoping Package: Prepare a Stormwater Scoping Package per City of Arlington Stormwater Standards, WSDOT Highway Runoff Manual Chapter 2-3.4.1 and submit to SNOCO, CITY and WSDOT for review. Revise once per SNOCO, CITY and WSDOT comments. The package will describe stormwater design, document major design decisions, and serve as a preliminary drainage report.

Task 2 Final Hydraulic Report

- 1) Collection and Conveyance: Update collection and conveyance system to address previous comments.



- 2) Treatment and Flow Control: Finalize the analysis design of water quality facilities and flow control facilities including landscaping.
- 3) Final Hydraulic Report: Prepare a Type A Hydraulic Report per the WSDOT Highway Runoff Manual, Chapter 1-3.1. Submit once for SNOCO, CITY and WSDOT review. Address comments and prepare a final hydraulic report.

Understanding

- Stormwater design will be based on the City or Arlington Stormwater Standards, Snohomish SNOCO Drainage Manual/ Standards, WSDOT Standard Plans, and the WSDOT Highway Runoff Manual (2014).
- WSDOT will be the approving authority of the Drainage Report.

Deliverables

- Stormwater Scoping Package
- Preliminary Stormwater Plans
- Final Hydraulic Report

Phase 8 Survey (Future Amendment)

Task 1 Topographic Survey

This task will be scoped and amended to this contract after SCJ has reevaluated the project footprint. SCJ will provide the Surveyor with an exhibit that will identify the additional areas to survey and merge with the existing surface.

Task 2 Right of Way

This task will be scoped and amended to the contract after the preliminary right of way impact is assessed. This task will include work required by a licensed surveyor to complete a boundary line adjustment and/or right of way delineation.

Phase 9 Geotech (Future Amendment)

This phase will be further described after initial design is further advanced and stormwater facilities are identified by SCJ.

Phase 10 PLANS, SPECIFICATIONS & COST ESTIMATE (PS&E)

Final design consists of finalizing Plans, Specifications, and Cost Estimate (PS&E) for the project and include the following design components.

Task 1 Roadway Modeling

- 1) Horizontal Layout: Finalize the horizontal layout of SR 530 and Smokey Point Boulevard.



- 2) Vertical Layout: Determine final centerline grade; develop final curb return profiles and intersection grading for the roundabout, detail ADA ramps, roadway intersections, and planned access points.
- 3) Final modification to the Roadway Corridor modeling.
- 4) Driveway grade modeling.
- 5) Curb Ramp Grading for ADA compliance.

Task 2 *Channelization and Signing*

- 1) Striping: Revise pavement marking plans to incorporate any horizontal design changes.
- 2) Signing: Develop a signing plan to meet the requirements of the MUTCD, WSDOT and SNOCO. Identify sign type, size and location. Identify existing signs to be relocated or removed.

Task 3 *Roundabout Plans*

- 1) Finalize preliminary roundabout plans and prepare associated details sheets.

Task 4 *Landscaping/Irrigation Plan*

- 1) Landscaping Plan: Landscaping within the roundabout center island and behind the sidewalks approximately 200-ft down the approach legs away from the roundabout. Planting for stormwater treatment facilities is included with Hydraulic Landscaping estimate does not include sculptures or up lighting. Landscaping is for restoration of exposed slopes.
- 2) Irrigation Plan: Irrigation will be a permanent in ground system being fed by a water service connection identified in water line plans developed by others.

Task 5 *Illumination*

- 1) Lighting Layout: Revise lighting layout and calculations using AGI32 software based on any horizontal / vertical changes.
- 2) Electrical Connection: Coordinate power sources with SNOCO PUD.
- 3) Line Loss: Perform line loss calculations.
- 4) Breaker Calculations: Perform breaker calculations.

Task 6 *Final Plans*

The following plans will be prepared and obtained approval from WSDOT, SNOCO, or CITY:

- 1) Cover Sheet (Utility Contacts/Sheet Index/Vicinity Map) (1 Sheet)
- 2) Summary of Quantities Sheet (1 Sheet)
- 3) General Notes/Existing Legend/Abbreviations (1 Sheet)
- 4) Horizontal Alignment Plans (3 Sheets)
- 5) Roadway Sections (2 Sheets)
- 6) Temporary Erosion and Sediment Control Plans (4 Sheets)



- 7) Removal and Utility Plans (4 Sheets)
- 8) Drainage Plan and Profiles (6 Sheets)
- 9) Utility Plan and Details (4 sheets)
- 10) Roundabout Plan and Profiles (2 Sheets)
- 11) Roadway Plan and Profiles (4 Sheets)
- 12) Paving Plans (4 Sheets)
- 13) Paving Details (2 Sheets)
- 14) Illumination Plans (3 Sheets)
- 15) Illumination Details (2 Sheets)
- 16) Pavement Marking Plans (3 Sheets)
- 17) Signing Plans (3 Sheets)
- 18) Sign Specification Sheet (1 Sheet)
- 19) Landscaping Plan (4 sheets)
- 20) Irrigation Plan (4 sheets)
- 21) Work Zone Traffic Control Plans/ Staging Plans (6 Sheets)

Task 7 *Engineer's Estimate of Probable Construction Costs*

- 1) Engineer's Estimate: Develop quantities based on the plans. Assign unit costs for quantified items and assign lump sum costs to other items based on professional judgment. Develop a construction cost estimate.

Task 8 *Special Provisions to the Standard Specifications*

- 1) Special Provisions: Identify non-standard items. Prepare an outline identifying key requirements to include in the specifications. Develop per the 2020 WSDOT and APWA methodology.

Task 9 *Agency Comment Resolution*

- 1) Comment Resolution: Respond to WSDOT and SNOCO review comments. Attend two meetings each with WSDOT and SNOCO to resolve respective comments (see meeting Phase 2, Task 2).

Task 10 *WSDOT Permitting*

- 1) General Permit: Coordinate and prepare for WSDOT General Permit.

Understanding

- 1) Removals are not included with the inside boundaries of the Triangle area.
- 2) Construction staging Plans will not be required.
- 3) Scope does not include estimate for design justifications or deviation approvals by WSDOT.



- 4) Public utility design (e.g. water, sewer, etc.) to be provided by others. These sheets will be in pdf format and not have to be formatted by SCJ.
- 5) SCJ Utility plan consists of Snohomish PUD, Tribe, Frontier, Wave, and City of Arlington conduit for the purpose of fiber.

Deliverables

- 1) Final Plans
- 2) Final Specifications
- 3) Final Engineer's Estimate
- 4) Final Design Documentation
- 5) WSDOT General Permit

Phase 40 PRECONSTRUCTION SERVICES (FUTURE)

This phase includes preparing bid documents, providing bidding services and/or support, and attending a preconstruction meeting. A formal scope of work and fee estimate will be provided at a later date once the City determines construction funding and a target date for bid advertisement.

Phase 50 CONSTRUCTION SERVICES (FUTURE)

This phase includes providing engineering services during construction. The extent of construction services provided can vary significantly depending on the scope of services requested. A formal scope of work and fee estimate will be provided at a later date once the City determines what the formal scope of work will be.

Phase 99 REIMBURSABLE EXPENSES

Direct expenses for SCJ project-related items, such as travel, printing, , etc., will be billed as a separate reimbursable expense per SCJ's General Conditions of Contract.

END OF SCOPE OF WORK

PHASE SUMMARY TABLE



SR530 / Smokey Pt Blvd Roundabout Int Improv.

Project #:

P#

Phase #	Phase Title	SCJ Hours	SCJ Direct Labor	Total Cost
<i>SCJ Labor</i>				
Phase 1	Project Management	116.0	\$20,240	\$20,240
Phase 2	Project Meetings	98.0	\$17,870	\$17,870
Phase 3	Intersection Control Evaluation	148.0	\$21,270	\$21,270
Phase 4	Preliminary Engineering	456.0	\$60,060	\$60,060
Phase 5	Environmental Permitting	146.0	\$19,220	\$19,220
Phase 6	Cultural Resoureces	23.0	\$3,210	\$3,210
Phase 7	Hydraulic Report	138.0	\$17,980	\$17,980
Phase 10	Final PSE	851.0	\$106,875	\$106,875
Subtotal		1976.0	\$266,725.00	\$266,725.00
<i>Subconsultants</i>				
Phase 8	Axis Surveying			\$0
Phase 9	Geotech			\$0
	Subconsultant Markup:			\$0
Subtotal				\$0.00
<i>Reimbursable Expenses</i>				
Phase 99	Reimbursable Expenses			\$1,300
<i>Management Reserve Fund (MRF)</i>				
Phase 98	Management Reserve Fund (MRF)			\$0
Total				\$268,025.00

Consultant Billing Rate Schedule



SCJ Alliance

Client: City of Arlington
Project: SR530 / Smokey Pt Blvd Roundabout Int Improv.
Job #: [Enter Project Number](#)
File Name: Labor Estimate.xlsm

Hourly Rate Table Format: Billing Rate Schedule
 Allowable Overhead Rate: N/A
 Negotiated Fixed Fee: N/A
 Labor Template Version: 9/27/2019

Billing Rate Schedule

Job Classifications	-	-	Total Hourly Billing Rates Minimum	Total Hourly Billing Rates NTE
Senior Principal Consultant	-	-	\$250.00	\$350.00
Principal	-	-	\$185.00	\$270.00
Senior Project Manager	-	-	\$160.00	\$210.00
Project Manager	-	-	\$125.00	\$170.00
Project Engineer II	-	-	\$120.00	\$150.00
Project Engineer I	-	-	\$110.00	\$140.00
Senior Consultant	-	-	\$190.00	\$275.00
Principal Landscape Architect	-	-	\$160.00	\$190.00
Project Landscape Architect	-	-	\$115.00	\$160.00
Landscape Architect I	-	-	\$100.00	\$135.00
Landscape Designer	-	-	\$80.00	\$110.00
Design Engineer	-	-	\$90.00	\$125.00
Senior Designer	-	-	\$110.00	\$160.00
Designer	-	-	\$80.00	\$115.00
Technician	-	-	\$70.00	\$90.00
Senior Transp. Planner	-	-	\$125.00	\$175.00
Transportation Planner	-	-	\$100.00	\$130.00
Senior Planner	-	-	\$120.00	\$175.00
Planner	-	-	\$95.00	\$140.00
Environmental Scientist	-	-	\$155.00	\$170.00
Construction Inspector	-	-	\$75.00	\$110.00
Project Coordinator II	-	-	\$95.00	\$125.00
Project Coordinator I	-	-	\$80.00	\$105.00
Project Accountant	-	-	\$100.00	\$130.00
Information Technology Specialist	-	-	\$85.00	\$135.00
Senior Marketing Coordinator	-	-	\$125.00	\$145.00
Marketing Coordinator	-	-	\$85.00	\$135.00
Communications Director	-	-	\$120.00	\$140.00
Information Services Manager	-	-	\$170.00	\$180.00
Graphic Designer	-	-	\$95.00	\$115.00
Senior Design Engineer	-	-	\$120.00	\$170.00
Administrative Assistant	-	-	\$70.00	\$80.00

Consultant Labor Hour Estimate



SCJ Alliance

Client: City of Arlington

Template Version: 9/27/2019

Project: SR530 / Smokey Pt Blvd Roundabout Int I

Contract Type: Billing Rate Schedule

Job #: Enter Project Number

File Name: Labor Estimate.xlsm

		Dan Ireland	Brad Shea	Ryan Shea	Employee Name	Employee Name	Employee Name	Employee Name	Employee Name	Employee Name	Employee Name	Total Direct Labor Hours & Cost	Total Cost
Phase & Task No.	Phase & Task Title	Principal	Senior Project Manager	Senior Transp. Planner	Project Engineer I	Design Engineer	Senior Planner	Landscape Designer	Principal Landscape Architect	Project Accountant	Project Coordinator I		
Phase 1 Project Management													
Task 1 Management													
1	Overall Management	8.0	24.0									32.0	\$6,040
2	Schedule and Budget	10.0	4.0									14.0	\$2,610
3	Coordination	16.0	16.0					4.0				36.0	\$6,400
5													
Subtotal Hours:		34.0	44.0					4.0				82.0	\$15,050
Task 2 Administration													
1	Progress Reports	12.0										12.0	\$2,220
2	Progress Billings	8.0								8.0	2.0	18.0	\$2,500
3	Subcontractor Contracting	1.0								1.0	2.0	4.0	\$470
4													
Subtotal Hours:		21.0								9.0	4.0	34.0	\$5,190
Total Phase Hours:		55.0	44.0					4.0		9.0	4.0	116.0	116.0
Total Phase Direct Labor:		\$10,175.00	\$8,360.00					\$400.00		\$945.00	\$360.00	\$20,240.00	\$20,240.00
Phase 2 Project Meetings													
Task 1 Meetings													
1	City Meetings (12)	4.0	12.0									16.0	\$3,020
2	Traffic Forecast Meeting		6.0	6.0								12.0	\$1,980
3	ICE Meeting	2.0	6.0	6.0								14.0	\$2,350
4	Agency Review Meeting	16.0	16.0									32.0	\$6,000
Subtotal Hours:		22.0	40.0	12.0								74.0	\$13,350
Task 2 Meeting Preparation													
1	Meeting Preparation	4.0	8.0									12.0	\$2,260
2	Meeting Summaries	4.0	8.0									12.0	\$2,260
Subtotal Hours:		8.0	16.0									24.0	\$4,520
Total Phase Hours:		30.0	56.0	12.0								98.0	98.0
Total Phase Direct Labor:		\$5,550.00	\$10,640.00	\$1,680.00								\$17,870.00	\$17,870.00
Phase 3 Intersection Control Evaluation													
Task 1 Traffic Analysis													
1	Data Review			8.0								8.0	\$1,120
2	Forecast Modeling			4.0								4.0	\$560
3	Traffic Volume Forecast		2.0	8.0								10.0	\$1,500
4	Operational Analysis		8.0	16.0								24.0	\$3,760
5	Signal Warrant Analysis			8.0								8.0	\$1,120
Subtotal Hours:			10.0	44.0								54.0	\$8,060
Task 2 Alternative Analysis													
1	Intersection Layout		4.0		8.0	16.0						28.0	\$3,560
2	Environmental Scan			4.0			8.0					12.0	\$1,560
3	Alternative Evaluation		4.0	8.0	4.0	4.0						20.0	\$2,840
4	ICE Report	2.0	8.0	24.0								34.0	\$5,250
5													
Subtotal Hours:		2.0	16.0	36.0	12.0	20.0	8.0					94.0	\$13,210
Total Phase Hours:		2.0	26.0	80.0	12.0	20.0	8.0					148.0	148.0
Total Phase Direct Labor:		\$370.00	\$4,940.00	\$11,200.00	\$1,560.00	\$2,200.00	\$1,000.00					\$21,270.00	\$21,270.00
Phase 4 Preliminary Engineering													
Task 1 Preliminary Design													
1	Base Map					8.0						8.0	\$880
2	Site Visit		6.0			6.0						12.0	\$1,800
3	Preliminary Layout		4.0		8.0							12.0	\$1,800
4	Design Vehicle Review		1.0		1.0							2.0	\$320
5	Preliminary Grading		4.0		24.0							28.0	\$3,880
6	Smokey Point Realignment		4.0		8.0	16.0						28.0	\$3,560
7	27th Ave Realignment		4.0		8.0	16.0						28.0	\$3,560
8													
Subtotal Hours:			23.0		49.0	46.0						118.0	\$15,800
Task 2 Preliminary Right of Way Plan													
1	Prepare right of way layout	2.0	8.0		4.0	24.0						38.0	\$5,050
2	Submittal for preliminary review		2.0			2.0						4.0	\$600
3	SCJ Support		4.0			4.0						8.0	\$1,200
4													
Subtotal Hours:		2.0	14.0		4.0	30.0						50.0	\$6,850

Consultant Labor Hour Estimate



SCJ Alliance

Client: City of Arlington

Template Version: 9/27/2019

Project: SR530 / Smokey Pt Blvd Roundabout Int I

Contract Type: Billing Rate Schedule

Job #: Enter Project Number

File Name: Labor Estimate.xlsm

		Dan Ireland	Brad Shea	Ryan Shea	Employee Name	Employee Name	Employee Name	Employee Name	Employee Name	Employee Name	Employee Name		
Phase & Task No.	Phase & Task Title	Principal	Senior Project Manager	Senior Transp. Planner	Project Engineer I	Design Engineer	Senior Planner	Landscape Designer	Principal Landscape Architect	Project Accountant	Project Coordinator I	Total Direct Labor Hours & Cost	Total Cost
Task 3 Basis of Design													
1	WSDOT Basis for Design application/package		1.0		8.0							9.0	\$1,230
2	Resubmittal after changes to comments		1.0		2.0							3.0	\$450
3													
Subtotal Hours:			2.0		10.0							12.0	\$1,680
Task 4 Preliminary Lighting													
1	Light placement				8.0							8.0	\$1,040
2	AGI32 modeling				4.0							4.0	\$520
3	Memorandum for WSDOT submittal				4.0							4.0	\$520
4	PUD coordination on service				4.0							4.0	\$520
5													
Subtotal Hours:					20.0							20.0	\$2,600
Task 5 Intersection Channelization Plan for Approval													
1	Roundabout geometric data		2.0		8.0	16.0						26.0	\$3,180
2	Fastest Path exhibits		2.0		2.0	4.0						8.0	\$1,080
3	AutoTurn path exhibits		2.0		2.0	4.0						8.0	\$1,080
4	Splitter Island details		1.0		2.0	4.0						7.0	\$890
5	Preliminary Channelization of approach roadways		4.0		8.0	16.0						28.0	\$3,560
6	Preliminary Signing		2.0		4.0	8.0						14.0	\$1,780
7	Curb Plan		1.0		1.0	4.0						6.0	\$760
8	Bicycle and Pedestrian path design		1.0		4.0	16.0						21.0	\$2,470
9	WSDOT RAB Checklist		2.0		2.0	4.0						8.0	\$1,080
10	Submittal #1		8.0		8.0	8.0						24.0	\$3,440
11	Submittal #2		4.0		8.0	8.0						20.0	\$2,680
12	Final Submittal		2.0		8.0	8.0						18.0	\$2,300
Subtotal Hours:			31.0		57.0	100.0						188.0	\$24,300
Task 7 Preliminary Utility Plan													
1	Setup sheet and initial joint trench align	2.0			1.0	8.0						11.0	\$1,380
2	Review/Coordinate with PUD and other Private Utilities	8.0			1.0	8.0						17.0	\$2,490
3	Coordination with RH2 utilities				4.0							4.0	\$520
4													
5													
Subtotal Hours:		10.0			6.0	16.0						32.0	\$4,390
Task 6 Preliminary Cost Estimate													
1	Cost Estimate		4.0		8.0	24.0						36.0	\$4,440
Subtotal Hours:			4.0		8.0	24.0						36.0	\$4,440
Total Phase Hours:		12.0	74.0		154.0	216.0						456.0	456.0
Total Phase Direct Labor:		\$2,220.00	\$14,060.00		\$20,020.00	\$23,760.00						\$60,060.00	\$60,060.00
Phase 5 Environmental Permitting													
Task 01 SEPA													
1	SEPA Application	2.0			2.0		12.0					16.0	\$2,130
2	Submittal						2.0					2.0	\$250
3	Public Posting						4.0					4.0	\$500
4	Comment Review	2.0			2.0		4.0					8.0	\$1,130
5													
Subtotal Hours:		4.0			4.0		22.0					30.0	\$4,010
Task 02 Shoreline Substantial Development Permit													
1	Shoreline Permit	4.0	8.0			16.0	60.0					88.0	\$11,520
2													
Subtotal Hours:		4.0	8.0			16.0	60.0					88.0	\$11,520
Task 3 Land Disturbing Activity Permit													
1	Permit Application	2.0			4.0		12.0					18.0	\$2,390
2	SWPPP				6.0							6.0	\$780
3	DOE Notice of Intent				4.0							4.0	\$520
4													
5													
Subtotal Hours:		2.0			14.0		12.0					28.0	\$3,690
Task 4													
1													
2													
3													
4													
5													
Subtotal Hours:													
Total Phase Hours:		10.0	8.0		18.0	16.0	94.0					146.0	146.0
Total Phase Direct Labor:		\$1,850.00	\$1,520.00		\$2,340.00	\$1,760.00	\$11,750.00					\$19,220.00	\$19,220.00
Phase 6 Cultural Resources													
Task 1 Area of Potential Effect													
1	APE Exhibit		2.0			4.0	8.0					14.0	\$1,820
2	support 05-05 Form to DAHP		4.0		1.0		4.0					9.0	\$1,390
3													
Subtotal Hours:			6.0		1.0	4.0	12.0					23.0	\$3,210
Total Phase Hours:			6.0		1.0	4.0	12.0					23.0	23.0
Total Phase Direct Labor:			\$1,140.00		\$130.00	\$440.00	\$1,500.00					\$3,210.00	\$3,210.00

Consultant Labor Hour Estimate



SCJ Alliance

Client: City of Arlington

Template Version: 9/27/2019

Project: SR530 / Smokey Pt Blvd Roundabout Int I

Contract Type: Billing Rate Schedule

Job #: Enter Project Number

File Name: Labor Estimate.xlsm

		Dan Ireland	Brad Shea	Ryan Shea	Employee Name	Employee Name	Employee Name	Employee Name	Employee Name	Employee Name	Employee Name	Total Direct Labor Hours & Cost	Total Cost
Phase & Task No.	Phase & Task Title	Principal	Senior Project Manager	Senior Transp. Planner	Project Engineer I	Design Engineer	Senior Planner	Landscape Designer	Principal Landscape Architect	Project Accountant	Project Coordinator I		
Phase 7 Hydraulic Report													
Task 01 Stormwater Scopint													
1	Background Data				8.0							8.0	\$1,040
2	Stormwater Modeling				16.0							16.0	\$2,080
3	Stormwater Layout		4.0		16.0	16.0						36.0	\$4,600
4	Preliminary package for review		2.0		16.0							18.0	\$2,460
5													
Subtotal Hours:			6.0		56.0	16.0						78.0	\$10,180
Task 02 Final Hydraulic Report													
1	Colleciton and conveyance				4.0	4.0						8.0	\$960
2	Treatment and flow control		2.0		8.0	4.0						14.0	\$1,860
3	Final Hydraulic Report		2.0		16.0							18.0	\$2,460
4	Revisions per WSDOT				8.0	4.0						12.0	\$1,480
5	Resubmittal				8.0							8.0	\$1,040
Subtotal Hours:			4.0		44.0	12.0						60.0	\$7,800
Total Phase Hours:			10.0		100.0	28.0						138.0	138.0
Total Phase Direct Labor:			\$1,900.00		\$13,000.00	\$3,080.00						\$17,980.00	\$17,980.00
Phase 10 Final PSE													
Task 01 Roadway Modeling													
1	Horizontal		1.0			4.0						5.0	\$630
2	Vertical		1.0			4.0						5.0	\$630
3	Corridor Model		2.0		8.0	12.0						22.0	\$2,740
4	Driveway Modeling		4.0		4.0	16.0						24.0	\$3,040
5	Curb Ramp Grading		1.0		2.0	12.0						15.0	\$1,770
Subtotal Hours:			9.0		14.0	48.0						71.0	\$8,810
Task 02 Channelization and Signing													
1	Final Channelization		2.0		2.0	16.0						20.0	\$2,400
2	Sign Table				2.0	4.0						6.0	\$700
5													
Subtotal Hours:			2.0		4.0	20.0						26.0	\$3,100
Task 3 Roundabout Plans													
1	Curbing details				4.0	8.0						12.0	\$1,400
2	splitter island details		1.0		2.0	4.0						7.0	\$890
3	Center island details		1.0		2.0	4.0						7.0	\$890
4													
5													
Subtotal Hours:			2.0		8.0	16.0						26.0	\$3,180
Task 4 Landscaping/Irrigation Plans													
1	Landscaping Concept Plan							16.0	4.0			20.0	\$2,240
2	Landscaping Plan							24.0	8.0			32.0	\$3,680
3	Irrigation layout							24.0	8.0			32.0	\$3,680
4	Details							16.0	4.0			20.0	\$2,240
5													
Subtotal Hours:								80.0	24.0			104.0	\$11,840
Task 5 Illumination													
1	Lighting layout/pole selection				12.0							12.0	\$1,560
2	PUD coordination/service application				4.0							4.0	\$520
3	Line Loss				1.0	4.0						5.0	\$570
4	Breaker calculations				1.0	2.0						3.0	\$350
5	Conduit sizing				1.0	4.0						5.0	\$570
Subtotal Hours:					19.0	10.0						29.0	\$3,570
Task 6 Final Plans													
1	Cover Sheet				1.0	2.0						3.0	\$350
2	Summary of Quantities	1.0			4.0	4.0						9.0	\$1,145
3	General Notes				1.0	2.0						3.0	\$350
4	Horizontal Plan				1.0	2.0						3.0	\$350
5	Roadway Sections				4.0	8.0						12.0	\$1,400
6	TESC				4.0	8.0						12.0	\$1,400
7	Removal Plans and Utility Plans		2.0		4.0	8.0						14.0	\$1,780
8	Drainage Plans and Profiles		4.0		16.0	24.0						44.0	\$5,480
9	Utility Plan and Details		4.0		8.0	16.0						28.0	\$3,560
10	Roadway Plan and Profile		4.0		8.0	24.0						36.0	\$4,440
11	Paving Sheets		4.0		8.0	32.0						44.0	\$5,320
12	Paving Details				4.0	24.0						28.0	\$3,160
13	Illumination Plans				4.0	4.0						8.0	\$960
14	Illumination Details				2.0	4.0						6.0	\$700
15	Pavement marking plans		4.0		2.0	4.0						10.0	\$1,460
16	Signing Plans				2.0	8.0						10.0	\$1,140
17	Sign Spec Sheet					8.0						8.0	\$880
18	Landscaping Plan							8.0	2.0			10.0	\$1,120
19	Irrigation Plan							8.0	2.0			10.0	\$1,120
20	Work Zone Traffic Control		4.0		8.0	24.0						36.0	\$4,440
21	Staging Plan	4.0	4.0		8.0	32.0						48.0	\$6,060
Subtotal Hours:		5.0	30.0		89.0	238.0		16.0	4.0			382.0	\$46,615
Task 7 Engineer Estimate													
1	Cost Estiamte	2.0	2.0		8.0	16.0		4.0	1.0			33.0	\$4,110

Consultant Labor Hour Estimate



SCJ Alliance

Client: City of Arlington Template Version: 9/27/2019
 Project: SR530 / Smokey Pt Blvd Roundabout Int I Contract Type: Billing Rate Schedule
 Job #: Enter Project Number
 File Name: Labor Estimate.xlsm

		Dan Ireland	Brad Shea	Ryan Shea	Employee Name	Employee Name	Employee Name	Employee Name	Employee Name	Employee Name	Employee Name		
Phase & Task No.	Phase & Task Title	Principal	Senior Project Manager	Senior Transp. Planner	Project Engineer I	Design Engineer	Senior Planner	Landscape Designer	Principal Landscape Architect	Project Accountant	Project Coordinator I	Total Direct Labor Hours & Cost	Total Cost
Subtotal Hours:		2.0	2.0		8.0	16.0		4.0	1.0			33.0	\$4,110
Task 8 Special Provisions													
1	Develop Run List				4.0							4.0	\$520
2	Develop Project Specific Specials		2.0		8.0				2.0			12.0	\$1,740
3	Coordinate WSDOT items				4.0							4.0	\$520
4	Review for WSDOT Submittal	4.0	2.0		8.0							14.0	\$2,160
5													
Subtotal Hours:		4.0	4.0		24.0				2.0			34.0	\$4,940
Task XX Agency Comment Resolution													
1	WSDOT submittal coordination	2.0	4.0		2.0							8.0	\$1,390
2	SNOCO submittal coordination	2.0	4.0		2.0							8.0	\$1,390
3	WSDOT/SNOCO comment resolution	2.0	8.0		12.0	24.0		4.0				50.0	\$6,490
4	WSDOT/SNOCO comment resolution 2		8.0		12.0	24.0						44.0	\$5,720
5	Final Submittal		4.0		8.0	8.0						20.0	\$2,680
Subtotal Hours:		6.0	28.0		36.0	56.0		4.0				130.0	\$17,670
Task 03 WSDOT Permit Coordination													
1	WSDOT permit coordination for design approval		16.0									16.0	\$3,040
2													
Subtotal Hours:			16.0									16.0	\$3,040
Total Phase Hours:		17.0	93.0		202.0	404.0		104.0	31.0			851.0	851.0
Total Phase Direct Labor:		\$3,145.00	\$17,670.00		\$26,260.00	\$44,440.00		\$10,400.00	\$4,960.00			\$106,875.00	\$106,875.00
Total Hours All Phases		126.0	317.0	92.0	487.0	688.0	114.0	108.0	31.0	9.0	4.0	1,976.0	1976.0
Total Direct Labor Estimate All Phases		\$23,310.00	\$60,230.00	\$12,880.00	\$63,310.00	\$75,680.00	\$14,250.00	\$10,800.00	\$4,960.00	\$945.00	\$360.00	\$266,725.00	\$266,725.00
Indirect Costs													
Subconsultants:		Axis Surveying Geotech											
Subconsultant Total:		\$ -											
Subconsultant Markup:		\$ -											
Subtotal:		\$ -											
Copies, Printing, etc.		\$ -											
Mileage		\$ 1,300.00											
Management Reserve:		\$ -											
Total Indirect Costs:		\$ 1,300.00											
Total:		\$ 268,025.00											

Consultant Fee Determination Summary



SCJ Alliance

Client: City of Arlington
 Project: SR530 / Smokey Pt Blvd Roundabout Int I
 Job #: Enter Project Number
 File Name: Labor Estimate.xlsm

Template Version: 9/27/2019
 Contract Type: Billing Rate Schedule

Consultant Fee Determination

DIRECT SALARY COST

<u>Classification</u>	<u>Hours</u>	<u>Fully Burdened Rate</u>	<u>Amount</u>
Principal	126.0	\$185.00	\$23,310
Senior Project Manager	317.0	\$190.00	\$60,230
Senior Transp. Planner	92.0	\$140.00	\$12,880
Project Engineer I	487.0	\$130.00	\$63,310
Design Engineer	688.0	\$110.00	\$75,680
Senior Planner	114.0	\$125.00	\$14,250
Landscape Designer	108.0	\$100.00	\$10,800
Principal Landscape Architect	31.0	\$160.00	\$4,960
Project Accountant	9.0	\$105.00	\$945
Project Coordinator I	4.0	\$90.00	\$360

TOTAL SALARY COST

Total Salary Cost \$266,725

SUBCONSULTANTS

Axis Surveying	Phase 8	Select Phase	\$0
Geotech	Phase 9	Select Phase	\$0
	Subconsultant Fee		\$0
	Subconsultant Markup:	10%	\$0
Total Subconsultant Cost			\$0

REIMBURSABLES

Copies, Printing, etc.	0.0%	of the Total Salary Costs	\$0
Mileage	2,000	miles at \$0.650 per mile	\$1,300
Total Expenses			\$1,300

SUBTOTAL (SALARY, SUBCONSULTANTS AND EXPENSES)

Subtotal (Salary, Subconsultants and Expenses) **\$268,025**

MANAGEMENT RESERVE FUND (MRF)

Management Reserve: \$0 **\$0**

Total Estimated Budget: \$268,025
