

CITY COUNCIL AGENDA ITEM
CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Authorize the City Manager to Execute a Contract with Reid Middleton, Inc., in the Amount of \$413,732 for Westminster Way N and N 155 th St Intersection Improvements
DEPARTMENT:	Public Works
PRESENTED BY:	Tricia Juhnke, City Engineer
ACTION:	<input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution <input checked="" type="checkbox"/> Motion <input type="checkbox"/> Discussion <input type="checkbox"/> Public Hearing

PROBLEM/ISSUE STATEMENT:

The City’s 2017 – 2022 Capital Improvement Plan (CIP) includes \$450,000 for designing the Westminster Way N & N 155th Street Intersection Improvements project. Re-designing the intersection is needed to provide a safer, realigned intersection for all users and to guide the design of frontage improvements for development of a mixed-use multi-family development that is proposed for the “Westminster Triangle” parcels lying between Westminster Way, N 155th Street and Aurora Avenue N and for future development within the Community Renewal Area (CRA).

The City’s code requires developers to design and construct frontage improvements to City standards. In this case, however, the City is taking lead in the overall design to provide better integration of the design with future development within the CRA.

The design project will develop construction plans and specifications for the intersection, for Westminster Way N, from Aurora Avenue N to approximately 150 feet north of its intersection with N 155th Street, and a for new one-way access road from Westminster Way to Aurora Avenue N at N 157th Street. At a minimum, a Development Agreement is anticipated for the multi-family development at the Westminster Triangle to fund for the development’s share of the improvements.

RESOURCE/FINANCIAL IMPACT:

The adopted 2017-2022 CIP budget for the Westminster Way N and N 155th Street Intersection Improvements design is \$450,000. This consultant services contract is budgeted for up to \$413,732 of this amount. The cost is budgeted through the General Fund and the Roads Capital Fund.

The 2017-2022 project budget and revenue sources are as follows:

EXPENDITURES

Project Administration:	
Staff and other Direct Expenses	\$36,268
Consultant Contract for Study	\$413,732
Total Project Cost	\$450,000

REVENUE

General Fund Contribution	\$300,000
Roads Capital Fund	\$150,000
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Total Revenue	\$450,000

RECOMMENDATION

Staff recommends that Council move to authorize the City Manager to execute an agreement with Reid Middleton, Inc., for \$413,732 to provide engineering, environmental, and other consultant services for the Westminster Way N and N 155th Street Intersection Improvements.

Approved By: City Manager ***DT*** City Attorney ***JA-T***

BACKGROUND

The City Council designated a 70-acre area in the Aurora Square Neighborhood as the Aurora Square Community Renewal Area (CRA). The CRA renewal plan identifies the need to transform Westminster Way N from N 155th Street to N 160th Street into a more pedestrian-friendly street that provides additional retail and residential frontage.

The lots in the “Westminster Triangle” between Westminster Way N, Aurora Avenue N, and N 155th Street are proposed to be redeveloped into the Alexan mixed use/multi-family residential apartment building. The City of Shoreline Engineering Development Manual (EDM) and the City’s Development Code require a mixed-use project to construct frontage improvements, as defined in the Master Street Plan, up to the center lines of N 155th Street and Westminster Way N. The Master Street Plan indicates that street cross-sections abutting the development are to be determined in conjunction with future redevelopment. Staff’s opinion is that a more integrated design for the intersection and for Westminster Way N will result if the City takes the lead in preparing design and construction documents, rather than requiring the developer to do so.

Staff prepared an initial 10 percent design in late 2016, which identified the City’s desired alignments, the scope of improvements, and potential natural drainage solutions that will be used as the basis for the finished design and construction documents. The proposed design project will produce final construction documents, set guidelines and requirements for the developer’s required frontage improvements, complete the environmental clearance process, and assist in the negotiations of a Development Agreement with the Alexan development.

ALTERNATIVE ANALYSIS

On May 11, 2017, the City issued Request for Qualifications (RFQ) #8787 for the Westminster Way N and N 155th Street Intersection Improvements design. Statements of Qualification (SOQs) were received from four consultant teams:

- DKS Associates,
- KPG, Inc.,
- Otak, Inc., and
- Reid Middleton, Inc.

The selection committee reviewed the consultants’ SOQs and selected Reid Middleton, Inc. as the most qualified for this design.

There are two primary alternatives regarding the award of this contract:

1. Award the contract to the selected consultant (recommended).
2. Do not award the contract.

Awarding the contract allows the project to move forward; conversely, not awarding the contract would stop the project. Given that a developer is ready to start construction in 2018, and will be awaiting City direction for their frontage improvements, the not awarding alternative is not recommended.

The design will commence once the consultant is under contract, currently estimated to occur by October 9, 2017. The design is expected to be completed approximately nine (9) months after starting. The proposed scope of work and budget are provided as Attachment A.

COUNCIL GOALS ADDRESSED

This project supports Council Goal #1 to strengthen Shoreline’s economic base to maintain the public services that the community expects, and supports Council Goal #2 to improve Shoreline’s infrastructure to continue the delivery of highly-valued public service.

RESOURCE/FINANCIAL IMPACT

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RECOMMENDATION

Staff recommends that Council authorize the City Manager to execute an agreement with Reid Middleton, Inc., for \$413,732 to provide engineering, environmental, and other consultant services for the Westminster Way N and N 155th Street Intersection Improvements.

ATTACHMENTS

Attachment A: Westminster Way N and N 155th Street Design Consulting Contract
Scope of Work and Budget

EXHIBIT A
Scope of Services
City of Shoreline
Westminster Way N and N 155th Street Design
September 1, 2017

A. PROJECT UNDERSTANDING

The City of Shoreline (City) requires the services of Reid Middleton, Inc. (Consultant) to prepare final plans, specifications, and estimates for the Westminster Way N and N 155th Street improvements project. The project is part of the City's Aurora Square Community Renewal Area (CRA) plan which identifies the need to transform Westminster Way N from N 155th Street to N 160th Street into a more pedestrian friendly street that provides additional retail and residential frontage. Improvements include realignment of the Westminster Way N/N 155th Street intersection and reconstruction of roadways to provide on street parking and wider sidewalks as well as a new access road between Westminster Way and SR 99 at N 157th Street.

The City shall provide support services to the Consultant as described in the following text. The Consultant will cooperate and coordinate with City staff to facilitate the project.

B. DESIGN CRITERIA

Reports prepared as part of this scope of services, to the extent feasible, will be developed in accordance with the latest edition and amendments to the following documents, as of the date this Agreement is signed:

1. WSDOT Publications
 - a. Washington State Department of Transportation/American Public Works Association (WSDOT/APWA), Standard Specifications for Road, Bridge, and Municipal Construction, 2016 edition.
 - b. WSDOT/APWA Standard Plans for Road, Bridge, and Municipal Construction; 2016 edition.
 - c. WSDOT Design Manual, 2016 edition.
2. AASHTO Publications

A Policy on Geometric Design of Highways and Streets, 2011 edition.
3. City of Shoreline Standards
 - a. Engineering Development Manual. 2012 edition.

- b. Standard Plans.
 - c. Shoreline Municipal Code as adopted April 11, 2017.
4. Other Standards and Publications
- a. FHWA Manual on Uniform Traffic Control Devices (MUTCD); 2009 edition.
 - b. WSDOT Americans with Disabilities Act (ADA) guidance.
 - c. Washington State Department of Ecology (DOE) 2014 Stormwater Management Manual for Western Washington (SWMMWW).

Base map and engineering CAD work will be done in Civil 3D 2016.

C. SCOPE OF SERVICES

The Consultant will perform the following:

1. Project Management

- a. Invoices, Budget Review, and Administration

Monthly invoices will be prepared according to a City-approved format.

Progress reports will include discussion of work performed and estimated percentage of work completed. Budget status including supporting documentation for direct expenses will be furnished with each invoice.

The Consultant has based the fee proposal on an eight-month duration to complete PS&E. Monthly project management tasks to be performed beyond the specified duration shall be considered extra work if the project duration is beyond the control of the Consultant.

Deliverables:

- Monthly Invoice and Progress Report, PDF and 1 hard copy.

- b. Contract and Amendments

The City shall prepare the contract and amendments as necessary. The Consultant will provide the City with scopes of services and fee proposals as required.

Deliverables:

- Scope of services, PDF.
- Fee proposal, PDF.

c. Project Schedule

The Consultant will prepare a critical path schedule using MS Project to track the progress of the deliverables. The project schedule will be based on the work identified in this scope of services and will identify major and support activities including significant work elements provided by the City. The Consultant will update the project schedule monthly (or as needed) to show progress and change.

Deliverables:

- Monthly Schedule Update, PDF, and MS Project copies.

d. File Management

The Consultant will provide file management which will include set-up, filing, and close out of project files.

e. Subconsultant Management

The Consultant will manage the subconsultants, process their invoices, and disseminate information to the project team.

Subconsultants are:

JA Brennan (Landscape Architecture)
HWA (Geotechnical Investigation)
ESA (Environmental Services)

f. Client Kickoff Meeting

The Consultant will organize and attend a kickoff meeting with the City. Attendees shall include the Consultant's project manager, lead designer, environmental planner, landscape architect, financial strategy advisor and City representatives. The Consultant will prepare meeting minutes. The following items will be discussed:

- (1) Project scope of services.
- (2) Project background.
- (3) Project objectives and constraints.
- (4) Required permits.
- (5) Define responsibility of participants.

- (6) Review material prepared to date.
- (7) Confirm project schedule.
- (8) Confirm design criteria.

Deliverables:

- Meeting minutes, PDF, and Word.

g. Team Kickoff Meeting

The Consultant will host a team kickoff meeting for staff members and subconsultants to discuss schedule, roles and design responsibilities.

h. Project Status Meetings

The Consultant and the City shall hold up to five meetings to discuss project progress and status.

Deliverables:

- Meeting minutes, PDF, and Word.

2. Data Collection

a. Acquire Data from the City

The Consultant will require the following information, including but not limited to:

- (1) Available record drawing plans within project limits.
- (2) Plans for the Westminster Triangle development.
- (3) Design constraints, including areas that are not to be impacted.
- (4) Design vehicle for each movement.
- (5) Available drainage information such as GIS information and drainage reports for areas in the project vicinity.
- (6) Relevant past geotechnical reports and pavement recommendations.
- (7) Traffic Data including:
 - (a) The City's current traffic data and analysis for the project including the N 157th Street/Westminster Way, N 155th

Street/Westminster Way and SR 99/N 155th Street intersections.

(b) Updated traffic volume estimates for the Westminster Triangle development.

(8) City's design standards.

(9) City's drainage standards.

(10) City's drafting standards including Civil 3D requirements.

(11) The City's current bid and contract documents and general conditions (project manual "front end" documents).

(12) City's general special provisions

3. Survey and Base Mapping

The Consultant will provide survey work necessary for preparation of the Construction Documents. An existing survey of a portion of the project site prepared by BRH was supplied to the Consultant by the City. The Consultant will complete the field work and merge the two surveys into a base map for the new roadway design project. The survey will be prepared in US Survey feet units. The Consultant will complete the field topo from the centerline of Westminster Way North to 20 feet +/- beyond the Westerly right of way from Aurora Ave North to 200 feet South of N 155th Street and from the centerline of N. 155th Street to 20 feet +/- beyond the South right of way line between Aurora Ave North and Westminster Way North. The Consultant will merge the two surveys into a base map for the new roadway design project.

a. Survey Control

The Consultant will tie into the existing control currently being used for the design of the Westminster Triangle parcel (BRH survey) between Westminster Way North & Aurora Ave North. The survey will be on Washington State Plane NAD83-91 horizontal coordinate datum and on approximate NAVD88 vertical datum (GPS derived).

The City shall provide any copies of datasheets for horizontal and vertical control in the immediate project area that they may have.

b. Utility Mapping

The Consultant will subcontract with Applied Professional Services (APS) to perform a Quality Level B locate service of the site to mark the approximate location of underground utilities using radio frequency

detected from the surface. The Consultant will incorporate utility as-built records into the survey mapping.

c. Topographic Survey

The topographic survey will include measurements and features within the survey limits as follows:

- The location of overhead power lines, utility and guy poles, street lights, and marked underground utility lines within the project limits.
- Existing surface features, visible structures, building facades, curb, gutter, sidewalk, edge of pavement, shoulders, planters, fences, retaining walls, walkways, paths, parking areas and driveways.
- Existing utility features, manholes, catch basins, fire hydrants, utility service panel locations, water meters and valve cases, drainage facilities (including top-of-structure elevations and pipe invert elevations).
- Significant isolated trees four-inches in diameter and larger as measured at breast height, a symbol of generic tree type, landscape trees regardless of size and planted areas.
- Signs, parking meters, parking stripes.

Survey mapping will be developed at one-foot contour intervals. Measurements will be taken on an approximate 25-foot grid. Elevations will be shown by contour lines.

d. Prepare Base Map

The Consultant will prepare a project base map from the field survey and map data provided by the City for Westminster Triangle parcel & portions of the roads adjacent to the Triangle parcel. The map will include one-foot interval contours, symbolic representation of existing natural and manmade features, and such written labels as are necessary to clarify the identity of the features and provide supplemental information which may be necessary in the analysis and design phases of the Project. The map will be prepared to conform to King County Civil 3D and/or City mapping standards. The Consultant will provide both a copy of the map, either printed or on electronic media, to the City.

e. Right-of-Way

(1) Right-of-Way Research

The Consultant will research the City of Shoreline and King County records (deeds, plats, surveys, and short plats) and collect information to determine the extent and nature of the existing right-of-way lines along Westminster Way N, N 155th Street and Aurora Ave N excluding right-of-way lines adjacent to the Westminster Triangle along the east side of Westminster Way N and north side of N 155th Street. Right-of-way lines adjacent to the Westminster Triangle will be provided by the City

(2) Right-of-Way Map

The Consultant will prepare a right-of-way map for all parcels located within the project limits. Major items to be included on the maps are:

- Existing right-of-way and property lines.
- Abutting parcels identified by parcel number and owner's name.
- Utility easements including report easement info (recording number, grantor, grantee).

f. The Consultant will survey up to five pothole locations and incorporate them into the base map.

Deliverables:

- Base map, Civil 3D.
- Base map with pothole information, Civil 3D.
- Terrain model, landxml file.

4. Geotechnical Investigation and Analysis

The Consultant will perform the following:

a. Review Existing Soil and Ground Water Information

The Consultant will review readily available existing site information including geologic and existing geotechnical exploration information for the proposed alignment. Based on this review the Consultant will provide proposed locations for explorations for the proposed improvements.

b. Mark and Submit Locate Requests

The Consultant will finalize the proposed exploration locations and the requirements for accessing the locations, including any required traffic control. The Consultant will visit the site to mark the proposed exploration locations and submit utility locates to the one-call center once the locations are finalized.

c. Prepare Exploration Plan Memo for Drilling in City ROW

The Consultant will prepare a letter and diagram illustrating our proposed drilling plan within the City right of way. This will include preparing a Traffic Control Plan (TCP), if required, to perform the proposed boring explorations. The exact locations of the borings will depend on the existing utilities. This scope of work assumes that no flaggers will be required to perform the proposed borings.

d. Coordinate Subsurface Exploration Program

The Consultant will coordinate with a drilling subcontractor, and traffic control, if needed, to perform the borings.

e. Conduct Exploration Program

The Consultant will conduct the proposed exploration program, which will consist of two borings, each to about 20 to 30 feet below ground surface, to provide design parameters for signal pole foundation design. The Consultant will perform Standard Penetration Testing (SPT) to observe the soil conditions encountered in the borings. The Consultant will conduct three Pilot Infiltration Test (PITs) at candidate locations to assess infiltration rates. The Consultant will core the pavement along Westminster Way in up to 6 locations in order to evaluate the existing pavement layer thicknesses.

f. Prepare Summary Logs and Assign Laboratory Testing

The Consultant will develop summary logs for each of the explorations based on the results from the drilling, test pit excavation, and pavement coring and assign laboratory testing to characterize the soil observed in the explorations.

g. Provide Recommendations for Signal Pole Foundation Design

The Consultant will evaluate the soil and groundwater conditions at the signal pole borings and provide recommendations for design parameters.

h. Evaluate Design Infiltration Rates

The Consultant will analyze the results of PITs and use grain-size analyses from our PIT excavations to evaluate appropriate design infiltration rates.

i. Provide Pavement Design Recommendations

Based on the results of the pavement coring, the Consultant will make recommendations for depths of grinding and overlay for pavement rehabilitation.

j. Write Draft Report

The Consultant will provide a draft geotechnical report presenting a summary of the observations made in the field along with conclusions and recommendations for geotechnical aspects of the project including:

- Soil and groundwater conditions.
- Signal pole foundations.
- Pavement design.
- Infiltration rates and feasibility.
- Materials likely to be encountered in excavations.
- Difficulty of excavations.
- Temporary excavations and shoring.
- Criteria for site preparation, fill placement, and compaction.
- Suitability of on-site materials for use as structural fill.
- Inclination of cut and fill slopes and benching requirements.
- Erosion control recommendations.

k. Prepare Final Report

The Consultant will finalize the geotechnical report once comments have been received from the City.

Deliverables:

- Draft geotechnical report, PDF.
- Final geotechnical report, PDF.

5. Coordination

a. Coordination with Utility Agencies

- (1) The Consultant will coordinate with the various utility agencies, including both franchise utilities and City-owned, regarding the relocation of existing facilities and provisions of new facilities within the project limits. Coordination with the utilities will include the following:
- (2) The Consultant will provide utility agencies with a copy of the completed base map for verification of their facilities.
- (3) The Consultant will initiate and maintain a utility contact database to log all correspondence (mail, e-mail, and phone logs) with all the utility agencies.
- (4) The Consultant will provide the utility agencies with a copy of the 30%, 60%, 90% and 100% design drawings.
- (5) The Consultant will lead a Utility Coordination Meeting. Attendees will include the Consultant's project manager, lead design engineer, City representatives, and utility agency representatives. The Consultant will prepare meeting minutes. The following items will be discussed:
 - (a) Project scope
 - (b) Project schedule
 - (c) Possible future utility improvements
 - (d) Potential utility conflicts
 - (e) Responsibilities of all parties

Deliverables:

- Meeting minutes, PDF and Word.

- b. The Consultant will provide follow up coordination via phone calls and emails with various utilities to resolve utility conflicts.

Deliverables:

- Meeting minutes, PDF and Word.

- c. Potholing Locations

The Consultant will prepare a plan denoting where potential utility conflicts are present for the City and request up to five locations to be potholed. The City and Consultant will coordinate to determine which locations will be potholed. The Consultant will coordinate with franchise utilities and/or a private locating service to have these locations potholed

Deliverables:

- Requested Potholing Locations, PDF.

d. Coordination with Others

The City shall provide coordination with the developer of the Westminster Triangle, King County Metro, fire department, police department, school district, and the adjacent land owners as required.

6. Traffic Analysis and Conceptual Channelization

- a. The Consultant will perform an updated traffic analysis for the N 155th Street/Westminster Way and SR 99/N 155th Street intersections using the City's current Synchro files. The analysis will include the PM peak hour.
- b. The Consultant will evaluate the feasibility of a roundabout option at the Westminster Way/N 157th Street intersection. The Consultant will perform traffic analysis for the operation of the Westminster Way/N 157th Street intersection to evaluate a roundabout alternative to four-way stop control. The Consultant will prepare conceptual design of a single lane roundabout. The Consultant will prepare summary of analysis comparing the alternatives.

Deliverables

- Updated Synchro output in PDF and Synchro format for Westminster Way/N 155th Street intersection.
- Analysis summary for the Westminster Way/N 157th Street intersection.

7. Channelization Plans for WSDOT Approval

The Consultant will coordinate with WSDOT for approval of a new road connection between Westminster Way and SR 99 that will serve as an entrance to SR 99. Prepare channelization plans for WSDOT approval that includes modifications to the existing Westminster Way connection to SR 99 as well as the new entrance connection. It is assumed that channelization plans will not need to be approved for modifications on N155 Street adjacent to SR 99. Up to three submittals of channelization plans are included.

Deliverables:

- Channelization plans at 1"=20' full-size scale in PDF format.

8. Drainage Design

a. Preliminary Drainage Analysis

The Consultant will prepare preliminary drainage analysis including LID feasibility assessment in accordance with the City of Shoreline 2017 Stormwater Management Program Plan. The Consultant will prepare drainage basin maps, review existing stormwater conveyance, treatment and detention, and prepare new impervious and new pollution generating impervious surface (PGIS) maps. The Consultant will prepare preliminary sizing calculations in support of the preliminary drainage facility concept created during 30% design. The preliminary drainage design information will be provided in a Drainage Technical Memorandum, which will eventually be updated and incorporated into the Final Drainage Report.

Deliverables:

- Draft Drainage Technical Memorandum in PDF format.
- Final Drainage Technical Memorandum in PDF format.
- One meeting with the City (Design approach meeting).

b. Drainage Report

The Consultant will prepare a Draft Drainage Report based on the 60% design for conveyance, water quality treatment, and flow control. Prepare Final Drainage Report and submit with 90% PS&E submittal.

Deliverables:

- Draft Drainage Report, PDF.
- Final Drainage Report, PDF.

9. Urban Design/Landscape Architecture

Schematic Alternative Concepts

The Consultant will provide two preliminary concepts for the Westminster Way N streetscape, N 155th Street streetscape, and gateways (the intersection of Westminster Way N & N 155th Street and the intersection of Westminster Way N & one-way access road/ bike and pedestrian trail). Context analysis plan will document land use, vehicular and pedestrian circulation within the immediate vicinity of the project site. Alternatives will build on the Aurora Square Community Renewal Area Plan, the City of Shoreline Master Street Plan, and Aurora corridor and will illustrate two different gateway options expressed in decorative paving, site furniture and lighting, a focal element (not custom/art), and landscape character, in addition to two streetscape options. Each alternative will identify design elements to unify the gateways and the streetscapes. Alternatives will address bicycle facilities and amenities, pedestrian amenities,

natural drainage integration, roadway cross sections, streetscape and ROW landscape. The Consultant will incorporate City feedback as provided at the City Planning Commission meetings and subsequent City direction, in the preferred schematic plan. A preliminary level cost estimate is provided which includes quantities and square foot level costs for landscape and gateway pedestrian hardscape improvements as identified in the preferred schematic plan.

Deliverables:

- Context analysis plan (1 sheet).
- Two Schematic Alternative Plans (1 sheet each).
- Preferred Schematic Plan (1 sheet)
- Design Tech Memo (up to 3 pages).
- One power point presentation (one for alternatives).
- Two meetings with City (Character & background research meeting & Alternatives meeting).
- One Design Team meeting.
- Preliminary Cost Estimate (1 submittal)

10. Environmental Documentation/Permitting

a. SEPA Checklist

Consultant will prepare a Draft SEPA Checklist to address the potential project impacts in accordance with City and State requirements. For purposes of this scope of services, Consultant has assumed that a SEPA Checklist will be required, but depending on the outcome of the CRA Planned Action Review to be completed by the City, a SEPA Threshold Determination may or may not be prepared by the City. The City shall be responsible for the release and distributing of required notices and documents, and responding to public and agency comments. At this time, it is reasonable to assume that no additional studies would be necessary to complete the Checklist.

Deliverables:

- Draft SEPA Checklist (provided in electronic format).
- Final SEPA Checklist – revised per one round of review and comment by the City.

Assumptions:

- This task anticipates that the City shall be the sole SEPA Lead Agency. Should cooperating agencies be determined to be the SEPA lead agency or co-lead agencies for this project, additional coordination and document preparation may be required and will be negotiated separately under an amendment to this agreement.
- The task includes one site reconnaissance visit.

- The City shall be responsible for publishing and distribution of the document and notices.

11. PS&E Development Common to all Phases of Design

The following elements will be performed at each of the following submittals:

- Schematic Design Phase (30 percent)
- Design Development Phase (60 percent)
- Final Design Development (90 percent)
- Construction Documents (final)

a. Opinion of Probable Construction Costs

The Consultant will calculate bid item quantities and prepare an opinion of probable construction costs based on each design phase. The opinion will include appropriate contingencies, and waste and compaction factors.

The 30 percent landscape irrigation cost estimates will be prepared in a square foot basis format. Sixty percent, ninety percent, and final landscape and irrigation cost estimates will be calculated bid item quantity costs.

b. Project Manual

The Consultant will prepare the general and final special provisions based on the *WSDOT Standard Specifications for Road, Bridge, and Municipal Construction*. The contents will include bid form items, the City's general conditions, contracts, supplemental general conditions, amendments to the standard specifications, special provisions, and standard plans. The Special Provisions will address items of work which are not addressed by the APWA and Washington State Standard Specifications as may be required to properly cover the work contemplated by the drawings.

The Consultant will prepare the project manual to include:

- (1) Signature page
- (2) Vicinity map
- (3) Bidding requirements
- (4) Advertisement for Bid
- (5) Contract documents
- (6) Amendments
- (7) Special Provisions based on the *WSDOT Standard Specifications for Road, Bridge, and Municipal Construction* plus APWA Supplement (English Version)
- (8) Prevailing Wages

- (9) Standard plans
- (10) Addenda (if any)
- (11) Project plans
- (12) City of Shoreline Construction Forms

The City shall provide the Consultant with bidding requirements, advertisement for bid, and contract documents.

A project manual will not be included in the 30 percent submittal. The 60 percent project manual will include special provisions only.

c. Quality Control Review

The Consultant will conduct quality control reviews by selected senior staff members with appropriate experience and expertise. In the review, the staff will scrutinize and question the major elements of the design for adequacy of response to the major design challenges and conformance to the accepted design practices.

d. Submit Documents to City for Review

The Consultant will provide the following at each review submittal unless otherwise noted:

Deliverables:

- Plans, 11" x 17" PDF.
- Opinion of probable construction costs, Excel.
- Project Manual, Word and PDF.

e. Annotate Review Comments

The City shall provide electronic review comments for each submittal in a mutually acceptable format, such as Bluebeam®. The City shall consolidate the review comments into a single document that shall be reviewed by the City's Project Manager in order to provide consistent direction to the Consultant and avoid duplicate comments.

The Consultant will provide written responses to comments provided by the City.

Deliverables:

- Annotated review comments, mutually accepted format.

f. Meet with City to Review Submittal

The Consultant will meet with the City for each submittal to discuss each

review submittal.

12. Schematic Development (30 Percent)

a. 30 Percent Plans

The 30% landscape/hardscape plans will be based on the approved schematic plan. No major changes to the layout and design elements are anticipated at 30% design.

The schematic development submittal package will contain the following plans (number of sheets shown is approximate):

- (1) Cover (1 sheet)
- (2) Legend and Abbreviations (1 sheet)
- (3) Alignment and Survey Control (2 sheets)
- (4) Typical Roadway Sections (1 sheet)
- (5) Roadway Plan/Profile (4 sheets)
- (6) Drainage Plans (4 sheets)
- (7) Channelization Plans (4 sheets)
- (8) Illumination Plans (4 sheets)
- (9) Signal Plans (2 sheets)
- (10) Landscape/Hardscape Plans (2 sheets)
- (11) Two Landscape/Hardscape Illustrative Sections
- (12) Landscape/Hardscape Design Tech Memo (up to 3 pages)

13. Design Development (60 percent)

a. 60 Percent Plans

The 60 Percent design development submittal package will contain the following plans (number of sheets shown is approximate):

- (1) Cover (1 sheet)
- (2) Legend and Abbreviations (1 sheet)
- (3) Alignment and Survey Control Plan (2 sheets)
- (4) TESC Plans and Details (5 sheets)
- (5) Site Preparation Plans (4 sheets)
- (6) Typical Roadway Sections (1 sheet)
- (7) Roadway Plan/Profile (4 sheets)
- (8) Drainage Details (2 sheets)
- (9) Miscellaneous Details (2 sheets)
- (10) Channelization and Signing Plans (5 sheets)
- (11) Illumination Plans (5 sheets)
- (12) Signal Plans (6 sheets)
- (13) Planting Plans and Details (5 sheets)

- (14) Irrigation Plans and Details (5 sheets)
- (15) Pedestrian Hardscape Layout Plans (4 sheets)

b. Field Verify Design

The Consultant will visit the site with the City's Project Manager to check the design against site conditions. The examination will include checks for accuracy, constructability, and conflicts.

14. Final Design Development (90 Percent)

a. 90 Percent Plans

The 90 Percent final design development submittal package will contain the following plans (number of sheets shown is approximate):

- (1) Cover Sheet; 1 sheet

The cover sheet will include the following:

- (a) Project title and project number
- (b) Vicinity map
- (c) Drawing index

- (2) General Notes, Abbreviations, and Legend; 1 sheet

This sheet will include the following:

- (a) City's General Notes
- (b) Abbreviations
- (c) Existing and Proposed Legend

- (3) Alignment and Survey Control Plan; 2 sheets

The Consultant will prepare an alignment plan to present the construction alignments of the project. The drawings will include:

- (a) Construction limits
- (b) Curve data for construction centerlines
- (c) Survey notes
- (d) Survey control
- (e) Project benchmarks
- (f) Quarter section, township, and range

- (4) Temporary Erosion and Sedimentation Control (TESC) Plan and Details; 5 sheets

The Consultant will prepare TESC plan and details of the erosion control design to meet site conditions. The TESC plan will incorporate current Best Management Practices (BMPs).

(5) Site Preparation Plan; 4 sheets

The Consultant will prepare a site preparation plan that will denote the limits of clearing and grubbing, removal or relocation of obstructions, utilities, pavement, and striping removal.

(6) Typical Cross Sections; 2 sheets

The Consultant will prepare drawings of typical roundabout cross sections. The pavement section will be based on the City's standard section. The drawings will include:

- (a) Key map to show cross section locations
- (b) Pavement layer types and depths
- (c) Curb types
- (d) Material types for non-motorized facilities
- (e) General cross section notes

(7) Roadway Plan/Profile; 4 sheets

The Consultant will prepare plans to present the horizontal and vertical design elements. The plans will include:

- (a) Right-of-way, easements, and property lines
- (b) Construction centerlines
- (c) Cut and fill slope limits
- (d) Grading and paving limits
- (e) Construction notes
- (f) General notes
- (g) Curve and alignment data
- (h) Curb locations
- (i) Wall location
- (j) Driveway restoration limits
- (k) Mailbox locations
- (l) Utility elements (adjustments) for Water and Sewer
- (m) Overhead utilities

The profiles will include:

- Existing roadway and ground-line profile
- Proposed roadway construction center line profile
- Storm drainage profiles

- Profile grid
- Vertical datum
- Utility crossings of the storm drain lines

(8) Drainage Details; 3 sheets

The Consultant will prepare water quality and flow control system details details.

(9) Miscellaneous Details; 3 sheets

The Consultant will include details as necessary. These details will include modifications to standard details for items such as curb ramps and driveways.

(10) Channelization and Signing Plans and Details; 6 sheets

The Consultant will prepare channelization and signing plans and details.

The plans will include:

- (a) Pavement striping and markings and locations
- (b) Dimensions of lanes and shoulders
- (c) General channelization notes
- (d) Construction notes
- (e) Channelization details
- (f) Sign locations
- (g) General signing notes
- (h) Construction notes
- (i) Size and location of signs
- (j) Signing details

(11) Illumination Plans and Details; 6 sheets

The Consultant will prepare lighting design for continuous roadway illumination within project limits using City standards and AGI 32 design software. Pedestrian lighting will be provided at locations determined by hardscape design. Lighting plans shall include conduit/wire and pole schedules, a layout plan and references to City standards. The City shall confirm pole and light fixture type/style.

(12) Signal Plans and Details; 7 sheets

The Consultant will prepare signal plans and details. Signal plans shall include a layout plan, conduit/wire schedule and pole schedule, wire diagram, controller and electrical details including surveillance camera and references to City standards. A fiber interconnect plan will be provided for N 155th Street between signals at Westminster Way and SR 99. The City shall confirm pole and light fixture type/style.

(13) Planting Plans and Details; 5 sheets

The Consultant will prepare landscape plans, schedule, and details. The plans will include:

- (a) Plant locations
- (b) General landscape notes
- (c) Plant schedule

(14) Irrigation Plans and Details; 5 sheets

The Consultant will prepare irrigation plans and details. The plans will include:

- (a) Irrigation head, equipment, and pipe layout, and sizing
- (b) General irrigation notes
- (c) Irrigation schedule
- (d) Irrigation details

(15) Pedestrian Hardscape Layout Plans; 4 sheets

The Consultant will prepare hardscape plans and details for decorative treatments in pedestrian areas. Hardscape design is limited to gateways and may include decorative concrete pavement design at pedestrian paths and potential plazas: amenities such as landscape walls, bollards, benches, bike racks, and trash receptacles, and pedestrian scale lighting; and gateway focal point design. Gateway focal point is assumed to be a non-custom element which is the same at both gateways.

(16) Traffic Control Plans and Details; 5 sheets

The Consultant will prepare traffic control plans and details to show Class A construction sign locations, typical lane closures, and pedestrian detours. Detailed construction phasing plans are not included.

b. Field Verify Design

The Consultant will examine the project site to verify the design development drawings. The examination will include checks for accuracy, constructability, and conflicts.

15. Finalize PS&E

a. Construction Documents (Final)

The Consultant will finalize the plans, project manual and opinion of probable construction costs in response to the City's comments. The Consultant will present a final submittal of the PS&E to the City for approval.

Deliverables:

- 1 copy of Final Plans bearing the engineer's stamp and signature, full-size (22" x 34") bound hard copy on paper.
- Final Opinion of Probable Cost, electronic Excel.
- Final Project Manual, electronic Word and PDF.

16. Public Outreach

a. Open House Meetings

The Consultant will attend up to two open house meetings to inform interested parties about the proposed improvements. The meetings will be informal, with graphics displayed showing the project. Three representatives from the design team will be present.

The Consultant will prepare supporting graphics that may include plan views of the improvements on roll maps (design superimposed over an aerial photo) along with concept exhibits conveying landscape/hardscape treatments.

The Consultant will prepare a summary of open house comments.

The City shall organize, advertise, set up, and attend the meetings.

Deliverables:

- Roll plots and concept exhibits.
- Open house summary.

b. Website Content

The City shall use open house materials on the website. No additional graphics are included.

17. Financing and Implementation Strategy.

- a. The Consultant will assist the City with an evaluation of how to phase construction and break down the cost estimates according to what is under the developer's frontage/SEPA mitigation improvements, vs. what is the City's responsibility. The breakdown of cost estimates will be included under Task 11a.

Deliverables:

- Draft Summary of Construction Phasing
- Final Summary of Construction Phasing

D. OPTIONAL SERVICES

1. NEPA Evaluation and Documentation (Documented Categorical Exclusion)

The Consultant will perform the work to prepare documentation to satisfy WSDOT Local Programs NEPA requirements. For the purposes of this scope and budget, it is assumed the appropriate level of documentation will be a Documented Categorical Exclusion (DCE). This includes the completion of a Categorical Exclusion (CE) form and supporting documentation per WSDOT requirements.

a. WSDOT CE Form and Coordination

The Consultant will prepare a Draft WSDOT CE form for the project to document compliance with NEPA. The CE form is the WSDOT-approved format for documenting projects that qualify for a DCE. The CE form will be completed per the guidance and requirements in the WSDOT Local Programs Environmental Classification Summary Guidebook and WSDOT's Environmental Manual at the time a notice to proceed is received by Consultant. The Consultant will complete the Draft CE form using field data and existing information from the technical reports completed for the project (described below), the project design plans, and other available information. The City shall review and edit the CE form and will be responsible for finalizing and submitting the form and supporting documentation to WSDOT for review and approval.

The Consultant will attend up to two (2) meetings, including a kick-off meeting with WSDOT and the project team to verify NEPA documentation requirements.

Deliverables:

- Draft WSDOT CE form.
- Final WSDOT CE form - revised per one round of review and comment by the City.

Assumptions:

- Based on the project description provided by the City, it is assumed that a DCE is the appropriate environmental classification for this project. This scope of work will need to be amended if WSDOT and FHWA determine that the project requires an environmental assessment or Environmental Impact Statement to complete NEPA documentation.
- Based on the developed conditions of the project area, it is assumed no wetlands, streams or other critical areas are present on the project site.
- Based on the project description, the project will not require a noise analysis and the project is assumed to be exempt from air quality analysis and a hot-spot analysis is not required.
- It is assumed that the project would not utilize or affect Section 4(f) properties. If it is determined that the project does utilize or affect 4(f) properties, this agreement would require amendment to comply with WSDOT 4(f) documentation requirements.
- In consultation with City and WSDOT staff, technical memoranda (in subsequent tasks) will be “right-sized” to address the potential impacts of this project and some reports may be combined, if appropriate.

b. Biological Evaluation (No Effect)

The Consultant will develop a BE “No Effect Letter” addressing Endangered Species Act Compliance consistent with WSDOT’s documentation procedures. The Consultant assumes that the project can be designed and constructed to result in a combined “no effect” determination for all listed species. The Endangered Species Act “no effect” letter will be based on 60 percent design information. Based on preliminary information available about the site and project impacts and to comply with WSDOT’s documentation procedures, the Consultant will complete either a No Effect Letter Review Checklist or a No Effect Assessment template.

Deliverables:

- Draft Biological Evaluation (No Effect), PDF.

- Final Draft Biological Evaluation (No Effect), PDF - revised per one round of review and comment by the City.

Assumptions:

- The Consultant will base its “No Effect” assessment on the published WSDOT LAG Manual procedures in effect and information, plans, and technical reports. Additional work required to address requests for additional information beyond the submittal of the specified materials to WSDOT are not included.
- The Consultant will adjust the draft deliverables as required within the limitations of the budget before final delivery. Changes to the project or report requirements, particularly as a result of new project information, species information or changes to listing status, or updates to WSDOT guidance after work has been initiated will require added services or additional revisions and may require an amendment to this agreement.

c. Cultural Resources Assessment

The Consultant will prepare a Cultural Resources Assessment consistent with Chapter 456 of the WSDOT Environmental Manual. The Consultant will coordinate with the City to define the project area of potential effect (APE) in order to initiate the Section 106 of the National Historic Preservation Act review with WSDOT. ESA will develop a draft APE letter for submittal by WSDOT to the Department of Archaeology and Historic Preservation (DAHP) and the tribes to initiate Section 106. Consultant will perform a background review of existing information on known cultural resources and geological conditions. This information will be used to develop a field methodology. Once the APE has been concurred upon, Consultant will conduct a field survey, if required. The archaeological survey will consist of a pedestrian survey within the APE, with limited shovel probes (less than 4, if required). It is assumed that the survey will require one (1) day of field work for two technicians.

The Consultant will inventory historic properties for resources of the historic built environment. Up to 4 buildings predating 1970 shall be recorded, at the reconnaissance level, with photographs and documentation, on Historic Property Inventory Forms for submission into the state’s electronic database. The inventoried buildings will be in the APE or adjacent to and facing the APE.

The results of the above survey activities will be compiled in a Cultural Resources Assessment report for the City to submit to WSDOT.

Deliverables:

- Draft APE letter.
- Final APE letter.
- Draft Cultural Resources Assessment.
- Final Cultural Resources Assessment - revised per one round of review and comment by the City.

Assumptions:

- The scope assumes no cultural resource sites will be found during the pedestrian survey.
- The scope does not include revisions to the cultural resources report based on review by Section 106 consulting parties; this work would require an amendment to this agreement.

d. Environmental Justice Technical Memorandum

Consultant will prepare a brief Environmental Justice (EJ) Technical Memorandum consistent with Chapter 458 of WSDOT's Environmental Manual, if required due to project right-of-way acquisition. Consultant will collect demographic and community data as needed to characterize any EJ populations in the project vicinity.

Deliverables:

- Draft Environmental Justice Technical Memorandum.
- Final Environmental Justice Technical Memorandum - revised per one round of review and comment by the City.

E. SERVICES PROVIDED BY THE CITY

The City shall provide the following information or services not included elsewhere in this scope of services:

1. Bid, ad, and award administration.
2. Rights of entry for survey, geotechnical explorations, environmental, cultural resources, and general engineering reconnaissance.
3. Traffic volume data for all project intersections.
4. Construction management.
5. Right-of-way appraisal and acquisition services including temporary construction easements.
6. Payment of applicable review and/or permit fees.

7. Maintenance of project website.
8. Preparation of PIF requests for approval.

F. ASSUMPTIONS

1. The Consultant reserves the opportunity to shift budget between work tasks and subconsultants.
2. The City's 10% design will serve as a basis for development of final PS&E. If the updated traffic analysis demonstrates the need for an expanded project footprint such as additional lanes or modified project limits, an assessment of additional work elements will be made and, if required, will be performed under an amendment to this agreement.
3. Roundabout design associated with the Westminster Way/N 157th Street intersection is limited to conceptual layout. Final design for a roundabout, if required, will be performed under an amendment to this agreement.
4. WSDOT coordination for approval of modified connections of Westminster Way and SR 99 is limited to channelization plan approval as noted in the scope of services. Additional coordination or documentation, if required, will be performed under an amendment to this agreement.
5. WSDOT approval of channelization plans will not be required for striping revisions on the west leg of N 155th Street at SR 99. If channelization plans are required, the work will be performed under an amendment to this agreement.
6. Design of water and sewer improvements associated with the Westminster Triangle development will be the responsibility of the developer and are not included, but if required, will be performed under a supplement to this agreement.
7. A Phase I environmental site assessment for the presence of hazardous materials is not included, but if required, will be prepared under an amendment to this agreement.
8. It is assumed that all new curb ramps will be fully ADA compliant and that MEF documentation will not be necessary. If MEF documentation is required, the work will be performed under an amendment to this agreement.
9. The Spill Prevention Control and Countermeasures Plan (SPCC) and final Stormwater Pollution Prevention Plan (SWPPP) shall be prepared by the construction contractor.
10. No structural walls will be provided.

11. Bidding assistance and construction support are not included, but may be performed under an amendment to this agreement.
12. Public art selection, incorporation, design, and construction is not included in this scope of services.
13. The Consultant will not prepare an electrical service permit.
14. Civil and structural engineering for fabrication of hardscape design including fabrication documents are not included, but if required, will be provided under an amendment to this agreement.
15. A City stormwater permit and Notice of Intent (NOI) will not be required.

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Estimate of Professional Services

728 134th Street SW
 Everett, WA 98204
 (425) 741-3800
 (425) 741-3900 FAX

PROJECT: Westminster Way N and N 155th Street Design
CLIENT: City of Shoreline
PROJ. NO.: 252017.913.014
FILE: H:\252017\913\Shoreline 155th & Westminster\Scope & Fee\155th & Westminster Fee_09-01-17.xlsx

BY: CJE
DATE: 7/13/17

CHKD BY: CLW 9/1/17

OPTIONAL SERVICE

		Principal	Designer II	Project Engr	Proj Designer	Project Engr	Designer I	Proj Admin	Principal	Survey Crew 2 Person	Survey Technician	Tech Writer II	Project Surveyor	Total Labor hours	Total DSC	OH Factor	DSC + OH	Mileage	Travel & Misc cost	Subs	Total Reimb	Labor & Reimb
Hourly Rate:		\$71.15	\$39.75	\$48.30	\$55.00	\$37.55	\$35.75	\$34.50	\$62.55	\$56.67	\$25.00	\$25.50	\$39.80			200.00%		\$0.54				
Task No.	Description	CE	WC	RK	PM	LJ	KH	CW	JP		TJ	CP	BL					\$	\$	Incl. 7% MU		
001	Project Management																					
00101	Invoices, Budget Review, and Administration	32						16						48	2,829	5,658	8,486				0	8,486
00102	Contract and Amendments													0	0	0	0				0	0
00103	Project Schedule	8												8	569	1,138	1,708				0	1,708
00104	File Management	8												8	569	1,138	1,708				0	1,708
00105	Subconsultant Management	24						8						32	1,984	3,967	5,951				0	5,951
00106	Client Kickoff Meeting	6				6								12	652	1,304	1,957	15			15	1,972
00107	Team Kickoff Meeting	1	1	1	1	1	1							6	288	575	863				0	863
00108	Project Status Meetings	18				15								33	1,844	3,688	5,532	75			75	5,607
	Subtotal Task 001	97	1	1	1	22	1	24	0	0	0	0	0	147	8,734	17,469	26,203	90	0	0	90	26,293
002	Data Collection																					
00201	Acquire Data from City					8								8	300	601	901				0	901
	Subtotal Task 002	0	0	0	0	8	0	0	0	0	0	0	0	8	300	601	901	0	0	0	0	901
003	Survey and Base mapping																					
00301	Survey Control								0.50	8	1		2	12	589	1,178	1,768				0	1,768
00302	Utility Mapping								1.00	16	4		8	29	1,388	2,775	4,163				0	4,163
00303	Topographic Survey								2.00	24	4		10	40	1,983	3,966	5,950				0	5,950
00304	Prepare Base Map								2.00		12		6	20	664	1,328	1,992				0	1,992
00305	Right of Way								2.00		4		5	11	424	848	1,272				0	1,272
00306	Survey for Potholes (5)								1.00	4	1		1	7	354	708	1,062				0	1,062
	Subtotal Task 003	0	0	0	0	0	0	0	8.5	52	26	0	32	119	5,402	10,804	16,206	0	0	0	0	16,206
004	Geotechnical Investigation																					
00401	Field Exploration						2							2	72	143	215			23,608	23,608	23,823
00402	Geotechnical Report	2					4							6	285	571	856			11,743	11,743	12,599
	Subtotal Task 004	2	0	0	0	0	6	0	0	0	0	0	0	8	357	714	1,070	0	0	35,352	35,352	36,422
005	Coordination																					
00501	Coordination with Utility Agencies	4				24								28	1,186	2,372	3,557				0	3,557
00502	Follow up with Utilities					4								4	150	300	451				0	451
00503	Potholing Locations (5)					8								8	300	601	901			5,350	5,350	6,251
00504	Coordination with Others													0	0	0	0				0	0
	Subtotal Task 005	4	0	0	0	36	0	0	0	0	0	0	0	40	1,636	3,273	4,909	0	0	5,350	5,350	10,259
006	Traffic Analysis & Conceptual Channelization																					
00601	Synchro Analysis	1			8									9	511	1,022	1,533				0	1,533
00602	Roundabout Feasibility Analysis	2				6	28							36	1,369	2,737	4,106				0	4,106
	Subtotal Task 006	3	0	0	8	6	28	0	0	0	0	0	0	45	1,880	3,760	5,639	0	0	0	0	5,639
007	Channelization Plans for WSDOT Approval																					
00701	Channelization Plans for WSDOT Approval	8	24			16	40							88	3,554	7,108	10,662				0	10,662
	Subtotal Task 007	8	24	0	0	16	40	0	0	0	0	0	0	88	3,554	7,108	10,662	0	0	0	0	10,662
008	Drainage Design																					
00801	Preliminary Drainage Analysis	2	8			24								42	1,566	3,131	4,697				0	4,697
00802	Drainage Report	4	12			40								68	2,570	5,139	7,709				0	7,709
	Subtotal Task 008	6	20	0	0	64	0	0	0	0	0	20	0	110	4,135	8,270	12,405	0	0	0	0	12,405
009	Urban Design/Landscape Architecture																					
00901	Schematic Alternative Concepts	6				2								8	502	1,004	1,506			16,130	16,130	17,636
00902	Landscape/Hardscape Conceptual Plans (30%) Design)													0	0	0	0			10,347	10,347	10,347
00904	Landscape and Hardscape(60%, 90%, 100%, and Final PS&E													0	0	0	0			43,655	43,655	43,655
	Subtotal Task 009	6	0	0	0	2	0	0	0	0	0	0	0	8	502	1,004	1,506	0	0	70,132	70,132	71,638

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BY: CJE
DATE: 7/13/17

CHKD BY: CLW 9/1/17

OPTIONAL SERVICE

		Principal	Designer II	Project Engr	Proj Designer	Project Engr	Designer I	Proj Admin	Principal	Survey Crew 2 Person	Survey Technician	Tech Writer II	Project Surveyor	Total Labor hours	Total DSC	OH Factor	DSC + OH	Mileage	Travel & Misc cost	Subs	Total Reimb	Labor & Reimb
Hourly Rate:		\$71.15	\$39.75	\$48.30	\$55.00	\$37.55	\$35.75	\$34.50	\$62.55	\$56.67	\$25.00	\$25.50	\$39.80			200.00%		\$0.54				
Task No.	Description	CE	WC	RK	PM	LJ	KH	CW	JP		TJ	CP	BL					\$	\$	Incl. 7% MU		
010	Environmental Documentation/Permitting																					
01001	SEPA Checklist	4				8								12	585	1,170	1,755			8,137	8,137	9,892
	Subtotal Task 010	4	0	0	0	8	0	0	0	0	0	0	0	12	585	1,170	1,755	0	0	8,137	8,137	9,892
011	PS&E Development Common to all Phases of Design																					
01101	Opinion of Probable Construction Costs	4				24	40							68	2,616	5,232	7,847				0	7,847
01102	Project Manual	40				32						30		102	4,813	9,625	14,438				0	14,438
01103	Quality Control Review	16				16								32	1,739	3,478	5,218				0	5,218
01104	Submit Documents to City for Review		8			4								12	468	936	1,405				0	1,405
01105	Annotate Review Comments	8				16								24	1,170	2,340	3,510				0	3,510
01106	Meet with City to Review Submittal	8				8								16	870	1,739	2,609				0	2,609
	Subtotal Task 011	76	8	0	0	100	40	0	0	0	0	30	0	254	11,675	23,351	35,026	0	0	0	0	35,026
012	Schematic Development (30%)																					
01201	Cover		2			1								3	117	234	351				0	351
01202	Legend and Abbreviations		1			1								2	77	155	232				0	232
01203	Alignment and Survey Control		4			2							4	10	393	787	1,180				0	1,180
01204	Typical Roadway Sections	1	6			6								13	535	1,070	1,605				0	1,605
01205	Roadway Plan/Profile	2	16			16								34	1,379	2,758	4,137				0	4,137
01206	Drainage Plans	1	12			12								25	999	1,998	2,996				0	2,996
01207	Channelization Plans	1	8				12							21	818	1,636	2,454				0	2,454
01208	Illumination Plans	1	10				20							31	1,184	2,367	3,551				0	3,551
01209	Signal Plans	1	8	12										21	969	1,938	2,906				0	2,906
01210	Landscape/Hardscape Plans	1	1											2	111	222	333				0	333
01211	Landscape/Hardscape Illustrative Sections		1											1	40	80	119				0	119
	Subtotal Task 012	8	69	12	0	38	32	0	0	0	0	0	4	163	6,622	13,243	19,865	0	0	0	0	19,865
013	Design Development (60%)																					
01301	Cover		1											1	40	80	119				0	119
01302	Legend and Abbreviations		1											1	40	80	119				0	119
01303	Alignment and Survey Control		1										2	3	119	239	358				0	358
01304	TESC Plans and Details	1	12			16								29	1,149	2,298	3,447				0	3,447
01305	Site Preparation Plans	2	12			16								30	1,220	2,440	3,660				0	3,660
01306	Typical Roadway Sections	1	8			8								17	690	1,379	2,069				0	2,069
01307	Roadway Plan/Profile	4	16			16								36	1,521	3,043	4,564				0	4,564
01308	Drainage Details	1	12			16								29	1,149	2,298	3,447				0	3,447
01309	Miscellaneous Details	1	12			8	12							33	1,278	2,555	3,833				0	3,833
01310	Channelization and Signing Plans	1	12				16							29	1,120	2,240	3,360				0	3,360
01311	Illumination Plans	1	12				16							29	1,120	2,240	3,360				0	3,360
01312	Signal Plans	1	12	16										29	1,321	2,642	3,963				0	3,963
01313	Planting Plans and Details		1			1								2	77	155	232				0	232
01314	Irrigation Plans and Details		1			1								2	77	155	232				0	232
01315	Pedestrian Hardscape Layout Plans		1			1								2	77	155	232				0	232
	Subtotal Task 013	13	114	16	0	83	44	0	0	0	0	0	2	272	10,999	21,997	32,996	0	0	0	0	32,996
014	Final Design Development (90%)																					
01401	Cover		1											1	40	80	119				0	119
01402	Legend and Abbreviations		1											1	40	80	119				0	119
01403	Alignment and Survey Control		1											1	40	80	119				0	119
01404	TESC Plans and Details	1	16			16								33	1,308	2,616	3,924				0	3,924
01405	Site Preparation Plans	2	16			16								34	1,379	2,758	4,137				0	4,137
01406	Typical Roadway Sections	1	8			12								21	840	1,680	2,519				0	2,519
01407	Roadway Plan/Profile	6	16			24								46	1,964	3,928	5,892				0	5,892
01408	Drainage Details	2	12			16								30	1,220	2,440	3,660				0	3,660
01409	Miscellaneous Details	1	16			16								33	1,308	2,616	3,924				0	3,924
01410	Channelization and Signing Plans	1	16				24							41	1,565	3,130	4,695				0	4,695
01411	Illumination Plans	1	16				16							33	1,279	2,558	3,837				0	3,837
01412	Signal Plans	2	24	48										74	3,415	6,829	10,244				0	10,244
01413	Planting Plans and Details		1			1								2	77	155	232				0	232

Estimate of Professional Services

728 134th Street SW
 Everett, WA 98204
 (425) 741-3800
 (425) 741-3900 FAX

PROJECT: Westminster Way N and N 155th Street Design
CLIENT: City of Shoreline
PROJ. NO.: 252017.913.014
FILE: H:\255\17\913\Shoreline 155th & Westminster\Scope & Fee\155th & Westminster Fee_09-01-17.xlsx

BY: CJE
DATE: 7/13/17

CHKD BY: CLW 9/1/17

		Principal	Designer II	Project Engr	Proj Designer	Project Engr	Designer I	Proj Admin	Principal	Survey Crew 2 Person	Survey Technician	Tech Writer II	Project Surveyor	Total Labor hours	Total DSC	OH Factor	DSC + OH	Mileage	Travel & Misc cost	Subs	Total Reimb	Labor & Reimb
Hourly Rate:		\$71.15	\$39.75	\$48.30	\$55.00	\$37.55	\$35.75	\$34.50	\$62.55	\$56.67	\$25.00	\$25.50	\$39.80			200.00%		\$0.54				
Task No.	Description	CE	WC	RK	PM	LJ	KH	CW	JP		TJ	CP	BL					\$	\$	Incl. 7% MU		
01414	Irrigation Plans and Details		1			1								2	77	155	232				0	232
01415	Pedestrian Hardscape Layout Plans		1			2								3	115	230	345				0	345
01416	Traffic Control Plans and Details	4	32				32							68	2,701	5,401	8,102				0	8,102
Subtotal Task 014		21	178	48	0	104	72	0	0	0	0	0	0	423	17,367	34,735	52,102	0	0	0	0	52,102
015	Finalize PS&E																					
1501	Construction Documents	8	24	6		32	16							86	3,587	7,173	10,760				0	10,760
Subtotal Task 015		8	24	6	0	32	16	0	0	0	0	0	0	86	3,587	7,173	10,760	0	0	0	0	10,760
016	Public Outreach																					
01601	Open House Meetings (2)	16	24			24								64	2,994	5,987	8,981			4,213	4,213	13,193
01602	Website Content													0	0	0	0				0	0
Subtotal Task 016		16	24	0	0	24	0	0	0	0	0	0	0	64	2,994	5,987	8,981	0	0	4,213	4,213	13,193
017	Financing and Implementation Strategy																					
01701	Summary of Construction Phasing	4				4								8	435	870	1,304				0	1,304
Subtotal Task 017		4	0	0	0	4	0	0	0	0	0	0	0	8	435	870	1,304	0	0	0	0	1,304
TOTAL HOURS		276	462	83	9	547	279	24	8.50	52	26	50	38	1,855	80,764	161,528	242,291	90	0	123,183	123,273	365,565
SubTotal Cost		19,637	18,365	4,009	495	20,540	9,974	828	532	2,947	650	1,275	1,512		80,764							
Percent of Total Hours		15%	25%	4%	0%	29%	15%	1%	0%	3%	1%	3%	2%									

Assumptions

Hours and rates shown are for estimating purposes only. The actual number of hours charged to the project and personnel used may vary. Hours worked will be billed using the direct salary cost of the personnel at the time the work is performed.

On DSC only	FEE	25%	20,191
	Inflation Factor	4%	
	% of Work after July 1	10%	
	Inflation Adj on Labor & Exp	970	
	Fix Fee (adj for Inflation)	20,272	
	Total Fee	386,807	
	Contingency/Rounding	0	
	TOTAL	386,807	
	OPTIONAL SERVICES (ATTACHED)	26,925	
	Management Reserve		
	TOTAL	413,732	