



AGENDA

PUBLIC WORKS COMMITTEE MEETING

June 1, 2020 | 5:30 pm

Wastewater Treatment Plant 26729 98th Drive NW

due to Covid-19 this meeting will be conducted by ZOOM.

Connection information will be posted on City Website – www.stanwoodwa.org

1. Blueline contract, scope and fee for 101st improvements.

Discussion Items:

- Project update



**CITY OF STANWOOD
PUBLIC WORKS COMMITTEE
AGENDA STAFF REPORT**

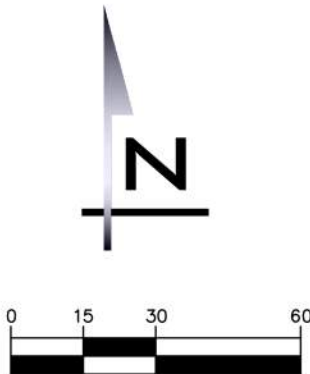
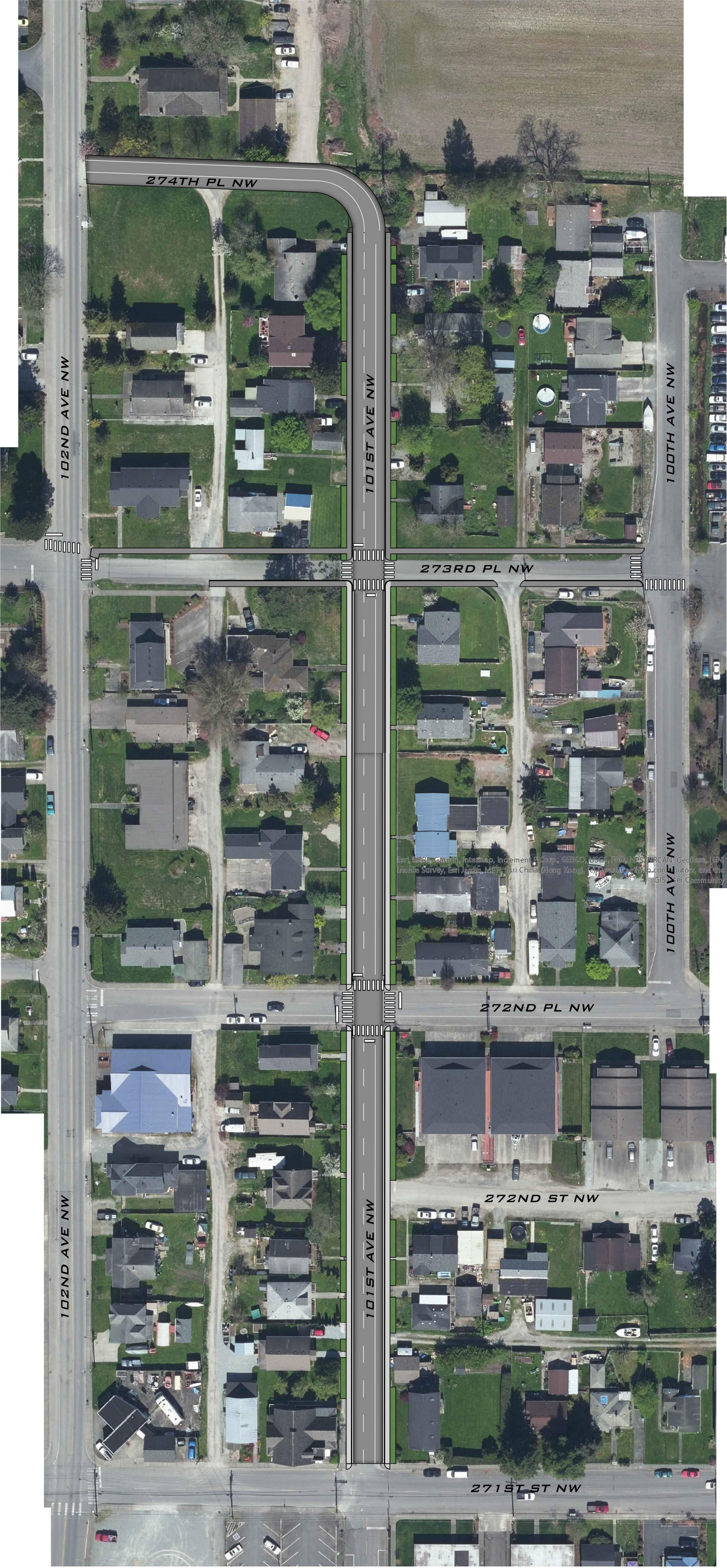
ITEM NUMBER: 1
DATE: June 1, 2020
SUBJECT: Contract with Blueline for design of 101st Avenue improvements
CONTACT PERSON: Kevin Hushagen, Public Works Director
ATTACHMENTS: A – Potential Rendering
B – CIP
C – Scope and Fee

ISSUE

Proposed contract with Blueline to design 101st Avenue improvements.

SUMMARY STATEMENT

101st Avenue is a narrow concrete panel road with poor drainage. The CIP identifies this street as needing drainage improvements and an entire reconstruction. This contracted work will design improvements that will address both of these issues including sidewalks for pedestrian travel.



Esri, HERE, Garmin, Intelmap, Inclement, S Corp., GEBCO, USGS, FAO, NPS, NRCAN, Geoplace, IGN, Unasys Survey, Esri Japan, MEI, Esri China (Hong Kong), Swisstopo, Mapbox contributors, and the GIS User Community

City of Stanwood Multi-Year Capital Project		
Project:	101st Reconstruction	Project Overview:
Tracking Fund:		Reconstruct 101st Street with new sidewalk, drainage improvements and a potential new southwest access to Heritage Park
Department:	Public Works	
Project Manager:	Shawn Smith	Justification:
Year Identified:		Significant flooding and poor drainage system affecting multiple property owners
Completion Year:		
Strategic or Master Plan Reference:	TIP	Detailed Project Description:
Program Reference:		Project will identify existing ROW to allow for total reconstruction of 101st. Once ROW has been established a design will be drafted to include new sidewalk, road surface, drainage improvements, water line improvements and potential access to Heritage Park.
Project Priority:		
Project Score:		
Asset Category:	Street, Sidewalk, Utility	
Address/Location:		
Related Projects(s):		
add photo here		

	Operating Impacts:

Capital Budget	Previous Years	2020	2021	2022	2023	2024	2025	Horizon Years	Total
Sources/Funding	Appropriated to Date	Budget	Projection	Projection	Projection	Projection	Projection	Projection	Overall Project Sources
TIB									\$ -
Grant-CDBG or SRTS			\$ 660,000	\$1,848,000					\$ 2,508,000
Transfer In - from TBD									\$ -
Transfer In - from 411		\$ 250,000							\$ 250,000
Cash on Hand									\$ -
Debt									\$ -
Total Sources	\$ -	\$ 250,000	\$ 660,000	\$1,848,000	\$ -	\$ -	\$ -	\$ -	\$ 2,758,000
Uses/Costs	Appropriated to Date	Budget	Projection	Projection	Projection	Projection	Projection	Projection	Overall Project Uses
Design, Engineering & Permitting		\$ 250,000	\$ 660,000						\$ 910,000
Acquisition & ROW									\$ -
Construction				\$1,848,000					\$ 1,848,000
Contingency									\$ -
Total Uses	\$ -	\$ 250,000	\$ 660,000	\$1,848,000	\$ -	\$ -	\$ -	\$ -	\$ 2,758,000

**Exhibit A to the City of Stanwood Agreement for Services
between The City of Stanwood and The Blueline Group, LLC
for the 101st Ave NW Reconstruction Project dated May 1, 2020**

PROJECT DESCRIPTION

The Blueline Group, LLC (“Blueline”) will provide design plans, specifications, and estimates (“PS&E”) for the City of Stanwood’s 101st Ave NW Reconstruction Project (“Project”) generally consisting of roadway construction and widening to two 10-foot wide lines with pedestrian sidewalks or paths on each side and parking on one side. The project will also include associated storm drainage improvements, water main replacement along portions of the alignment, and ADA-compliant ramps and walkways throughout. The project areas, as identified by the City, include:

- **101st AVE NW:** Approximately 1,200 lineal feet along 101st Ave NW from the south side of intersection with 271st St NW to the intersection with 274th Pl NW. *This segment includes complete roadway construction and widening plus storm drainage improvements and water main replacement.*
- **274th PL NW:** Approximately 250 lineal feet along 274th Pl NW from the intersection with 101st Ave NW west to the intersection with 102nd Ave NW. *Available right-of-way may dictate the improvements on this segment, as the existing roadway is ~15’ of gravel.*
- **273rd PL NW:** Approximately 550 lineal feet along 273rd Pl NW from the intersection with 102nd Ave NW to the intersection with 100th Ave NW. *This segment includes creating a safe route to school path or sidewalk on one side, with no roadway reconstruction or widening.*

TASK SUMMARY

Task 001	PROJECT MANAGEMENT
Task 002	SURVEY & BASE MAPPING
Task 002A	STORM DRAINAGE SYSTEM MAPPING
Task 003	GEOTECHNICAL ENGINEERING SERVICES
Task 004	OVERALL PRELIMINARY DESIGN
Task 005	101 ST AVE NW PS&E
Task 006	273 RD PL NW PS&E
Task 007	274 TH PL NW PS&E
Task 008	UNASSIGNED SERVICES RESERVE

PROJECT SCHEDULE

Blueline shall begin work immediately upon Notice-to-Proceed from the City and proceed per the following general Project Schedule. This schedule is very flexible and can be adjusted as needed. Key dates include:

Notice to Proceed	late May 2020
Information Gathering, Survey, & Geotechnical Investigations.....	May/June 2020
Overall Preliminary Design	July 2020
60% Design Submittal.....	early September 2020
Project Walk-Through	September 2020
90% Design Submittal.....	November 2020
Final Design Submittal	January 2021
Bid and Award.....	February/March 2021
Construction Start	Spring 2021

SCOPE OF WORK

Blueline’s scope of work for the Project is as shown on the following pages.

**Exhibit A to the City of Stanwood Agreement for Services
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Task 001 – PROJECT MANAGEMENT Fixed Fee: \$22,200

This task is for general coordination and meetings on the project, including coordination with the City, internal plan review/discussion meetings, subconsultant coordination, and in-house quality assurance. Blueline will prepare monthly invoices for work performed during the previous month. Included with the invoices will be pertinent backup materials and progress reports of the project to date.

Deliverables: *Monthly Invoices, Progress Reports.*

Task 002 – SURVEY & BASE MAPPING Fixed Fee: \$25,300

The Project area generally includes street surface and utility improvements in the areas graphically depicted in Exhibit B and described as follows:

- Mapping of 101st Ave NW from the intersection with 271st St NW, north to 274th PI NW.
- Mapping of 274th PI NW from the intersection with 101st Ave NW, west to and 50' in each direction of the intersection with 102nd Ave NW.
- Mapping of 274th PI NW from the intersection with 101st Ave NW, east along the unopened right of way to and 50' in each direction of the intersection with 100th Ave NW
- Mapping of 273rd PI NW from the intersection of 100th Ave NW, west to and 50' in each direction of the intersection with 102nd Ave NW.

Axis Survey and Mapping will prepare base mapping for the area specified in the Project Description above. AutoCad drawings will be prepared at a scale of 1"=20'. Services will include the following:

- Control survey in NAD 83/91 Horizontal Datum, with all elevations derived from and checked to NAVD 88 Vertical Datum.
- Obtain location of the following improvements with surface elevations: Edge of asphalt, curbing, sidewalks, and other surfaces, catch basins, culverts, sewer manholes, fire hydrants, valves and other utilities that are observable from surface exploration within the mapping area. Invert elevations of all observable storm drain and sanitary sewer pipes will be located.
- Delineate parcel lines within the above-described area as available from recorded plats and public records further compared to Snohomish County GIS Parcel lines.
- Set additional elevation benchmarks at either end of the project area and every 500-700' along the route.
- Locate significant trees as defined by City of Stanwood Municipal Code along the route and 10' outside the right-of-way.
- Contract with and coordinate services of private utility locate company Applied Professional Services Locates to ascertain conductible underground utility locations and utilize Ground Penetrating Radar (GPR) to locate any non-conductible utilities (such as existing PVC or AC water mains) within the mapping area. The cost of this service is included herein (\$4,400).
- Depict hard and soft surfaces on individual layers per accepted APWA standards.
- Show and dimension located topographic features and contours at 2' intervals.
- Show known utilities as provided by City of Stanwood records, research of available utility as-built records and as located by utility locators.

Deliverables: *AutoCad 2016 drawing file with point database and dtm files*

Assumptions: *The City will provide all necessary rights of entry into private property and notice to landowners along the route of mapping activity. The City will provide a copy of the notice to be presented to landowners by Axis Survey Crews.*

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Task 002A – Storm Drainage System Mapping Fixed Fee: \$6,200

This additional Project area generally includes location of storm drainage features in the areas graphically depicted in Exhibit C and described as follows:

- 102nd Ave NW from the intersection with Lovers Rd, south to the intersection with 271st St NW.
- 271st St NW from the intersection with 102nd Ave NW, east to the intersection with 101st Ave NW.

Axis Survey and Mapping will prepare base mapping for the area specified in the Project Description above. AutoCad drawings will be prepared at a scale of 1"=20'. Services will include the following:

- Control survey in NAD 83/91 Horizontal Datum, with all elevations derived from and checked to NAVD 88 Vertical Datum.
- Obtain location and elevation of all available storm drainage structures with elevation, size and material type of the inverts.

Deliverables: *AutoCad 2016 drawing file with point database and dtm files*

Assumptions: *The City will provide all necessary rights of entry into private property and notice to landowners along the route of mapping activity. The City will provide a copy of the notice to be presented to landowners by Axis Survey Crews.*

Task 003 – GEOTECHNICAL ENGINEERING SERVICES Fixed Fee: \$31,400

HWA Geosciences (HWA) will provide the following geotechnical engineering services for the Project:

- Geotechnical Project Setup (See detail included in Exhibit D):
 - Project Setup.
 - Collect and Review Available Geotechnical Data.
- Geotechnical Field Exploration Program:
 - Coordinate and Plan the Geotechnical Exploration Field Work.
 - Generate Geotechnical Explorations Work Plan Memo.
 - Conduct Utility Locates.
 - Conduct Geotechnical Explorations (See detail included in Exhibit D):
 - Generate Boring Logs and Assign Laboratory Testing.
 - Groundwater Monitoring.
- Geotechnical Engineering Design Services (See detail included in Exhibit D):
 - Evaluate Geotechnical Explorations Field and Laboratory Data.
 - Geotechnical Engineering.
 - Project Coordination Meetings.
 - Prepare Geotechnical Engineering Report.
- Project Management (See detail included in Exhibit D):
 - Invoice Generation and Processing.
 - Geotechnical Task Management.

Deliverables: *Geotechnical Explorations Work Plan Memorandum
Draft and Final Geotechnical Engineering Report*

Assumptions: *The geotechnical explorations proposed herein will not be used to assess site environmental conditions. However, visual or olfactory observations regarding potential contamination will*

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be noted. Analysis, testing, storage, and handling of potentially contaminated soil and ground water (either sampled or spoils from drilling) are beyond this scope of services. If contaminated soils and/or ground water are encountered, the material will be properly contained on-site for disposal as mutually agreed upon without additional cost to HWA.

All non-contaminated drilling spoils and related debris will be drummed on site and transported off site for disposal by the drilling subcontractor.

HWA will be responsible for all post drilling clean up.

No geotechnical data report or baseline report will be generated as part of this work.

No Phase 1 or Phase 2 Environmental Site Assessment will be completed by HWA.

All required street use permits will be provided by the City at no cost to HWA.

All geotechnical borings conducted through the pavement will be patched with quick setting cement. Saw cutting of the pavement or hot mix asphalt patches will not be required.

All Geotechnical Explorations will be completed during daylight hours.

The borehole locations will be surveyed by others.

The groundwater monitoring well will be decommissioned by the contractor during construction.

No uniform police officer will be required for traffic control implementation during the exploration program.

No stormwater infiltration analysis will be competed due to anticipated fine grained soils.

HWA will not be required to attend a project kick off meeting

HWA reserves the right to transfer hours and budget dollars between tasks, labor and direct costs within the overall budget, as necessary to satisfy project requirements.

Task 004 – OVERALL PRELIMINARY DESIGN..... Fixed Fee: \$40,000

Using the survey and geotechnical recommendations prepared in Tasks 002, 002A, and 003, Blueline will prepare an Overall Preliminary Design for the project. The services under this task will include:

- Attending an Initial Kick-off meeting with the city.
- Analyzing the right-of-way and existing improvements to provide proposed layout alternatives for City review. This will include evaluating intersections, sidewalk/path layout, parking configurations, drainage collection and improvements, existing trees, and the approximate project limits.
- Preparing initial water main replacement design (plan view only)
- Approximate project timeline for construction services.
- Engineers Estimate for the completion of all work areas.

Deliverables: Overall Preliminary Design Report.

Task 005 – 101ST AVE NW PS&E Fixed Fee: \$96,300

Blueline will provide the City with three stages of Design PS&E including:

- Meeting with the City to review the layout alternatives presented in Task 004.
- Conducting a site visit with the City to confirm the exact project locations and desired improvements.
- Plans prepared as follows:
 - Proposed improvements shown in plan and profile per City standards.

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for the 101st Ave NW Reconstruction Project dated May 1, 2020**

- Temporary erosion and sedimentation control plan, notes, and details as necessary.
- City standard details cross-referenced where applicable and specialized details developed as necessary.
- 22"x34" sheets with roughly an 18"x28" drawing area.
- 1"=20' horizontal scale and 1"=5' vertical scale.
- Technical specifications, including Proposal, Contract Forms, General Conditions, and Measurement and Payment in WSDOT format, using City-provided standard specifications when available.
- Engineer's Estimate of probable construction costs.
- 60%, 90%, and Final Design stage submittals.
- A project walk-through with the City after the 60% design submittal.
- Review of comments with City staff at each stage of design and incorporation of City comments into the subsequent submittal.

Deliverables: 60% PS&E (Hard copies or electronic copies, as specified by the City).

Design memo accompanying the submittal that outlines assumptions, questions, and recommendations (1 hard copy).

90% PS&E (Hard copies or electronic copies, as specified by the City).

Final PS&E (Hard copies or electronic copies, as specified by the City).

Assumptions: The PS&E for Tasks 004-006 will be one combined bid package.

Task 006 – 273RD PL NW PS&E Fixed Fee: \$32,000

Blueline will provide the City with three stages of Design PS&E including:

- Meeting with the City to review the layout alternatives presented in Task 004. (Held concurrently with Task 005.)
- Conducting a site visit with the City to confirm the exact project locations and desired improvements. (Held concurrently with Task 005.)
- Plans prepared as follows:
 - Proposed improvements shown in plan and profile per City standards.
 - Temporary erosion and sedimentation control plan, notes, and details as necessary.
 - City standard details cross-referenced where applicable and specialized details developed as necessary.
 - 22"x34" sheets with roughly an 18"x28" drawing area.
 - 1"=20' horizontal scale and 1"=5' vertical scale.
- Technical specifications, including Proposal, Contract Forms, General Conditions, and Measurement and Payment in WSDOT format, using City-provided standard specifications when available.
- Engineer's Estimate of probable construction costs.
- 60%, 90%, and Final Design stage submittals.
- A project walk-through with the City after the 60% design submittal.
- Review of comments with City staff at each stage of design and incorporation of City comments into the subsequent submittal.

Deliverables: 60% PS&E (Hard copies or electronic copies, as specified by the City).

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Design memo accompanying the submittal that outlines assumptions, questions, and recommendations (1 hard copy).

90% PS&E (Hard copies or electronic copies, as specified by the City).

Final PS&E (Hard copies or electronic copies, as specified by the City).

Assumptions: *The PS&E for Tasks 004-006 will be one combined bid package.*

Task 007 – 274TH PL NW PS&E Fixed Fee: \$26,600

Blueline will provide the City with three stages of Design PS&E including:

- Meeting with the City to review the layout alternatives presented in Task 004. (Held concurrently with Task 005.)
- Conducting a site visit with the City to confirm the exact project locations and desired improvements. (Held concurrently with Task 005.)
- Plans prepared as follows:
 - Proposed improvements shown in plan and profile per City standards.
 - Temporary erosion and sedimentation control plan, notes, and details as necessary.
 - City standard details cross-referenced where applicable and specialized details developed as necessary.
 - 22"x34" sheets with roughly an 18"x28" drawing area.
 - 1"=20' horizontal scale and 1"=5' vertical scale.
- Technical specifications, including Proposal, Contract Forms, General Conditions, and Measurement and Payment in WSDOT format, using City-provided standard specifications when available.
- Engineer's Estimate of probable construction costs.
- 60%, 90%, and Final Design stage submittals.
- A project walk-through with the City after the 60% design submittal.
- Review of comments with City staff at each stage of design and incorporation of City comments into the subsequent submittal.

Deliverables: *60% PS&E (Hard copies or electronic copies, as specified by the City).*

Design memo accompanying the submittal that outlines assumptions, questions, and recommendations (1 hard copy).

90% PS&E (Hard copies or electronic copies, as specified by the City).

Final PS&E (Hard copies or electronic copies, as specified by the City).

Assumptions: *The PS&E for Tasks 004-006 will be one combined bid package.*

Task 008 – UNASSIGNED SERVICES RESERVE Hourly Not to Exceed: \$28,000

This task provides for unanticipated services deemed to be necessary during the course of the Project that are not specifically identified in the scope of work tasks defined above. Any additional work or funds under this item are not to be used unless explicitly authorized by the City.

Deliverables: *None yet identified.*

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GENERAL ASSUMPTIONS & NOTES

- Scope and fees outlined above are based on the following information (any changes to these documents may result in changes to the fees):
 - Email correspondence with the City of Stanwood in April 2020.
 - Site visit with the City on April 20, 2020.
 - Background information provided by the City of Stanwood.
- This scope and fee proposal assumes that all three project segments included in the Project Description above are designed concurrently, as one set of contract documents. A separate fee proposal – or the Unassigned Services Reserve task if authorized by the City – may be needed for separate bid sets of contract documents.
- This proposal does not include any of the following:
 - ROW acquisition or offsite easements.
 - Drainage calculations or Drainage report.
 - Environmental Evaluation or Assessments, SEPA, NPDES, or SWPPP (not anticipated necessary).
 - Sanitary sewer or gas main replacement/improvements.
 - Dry Utility or Gas design or coordination.
 - Power pole relocation coordination.
 - Traffic Engineering or a Traffic Control Plan.
 - Grading permit.
 - Community Involvement, Bidding Assistance, or Construction Administration, Staking, or Inspection Services (a separate fee proposal can be provided upon request).
- Agency fees (if any) are not included as part of the fees outlined above.
- The fees stated above do not include reimbursable expenses such as large format copies (larger than letter/legal size), mileage, and plots. These items will be billed under a separate task called Expenses. **Estimate: \$2,000.**
- Project stops/starts and significant changes to the Project Schedule may result in changes to the fees provided above and a separate fee proposal will be provided.
- These fees stated above are valid if accepted within 30 days of the date of the proposal.
- Client Revisions requested after the work is completed will be billed as Time and Expense under a new task called **Client Requested Revisions**. A fee estimate can be provided to the Client prior to proceeding with the revisions.
- If the Client requests Blueline's assistance with any public records request, including without limitation providing copies of documents and communications, Client will pay Blueline's hourly fees and costs incurred in providing such assistance at then-current rates. Such fees and costs will be billed as a separate task and will be in addition to the maximum or total fees and costs stated in the agreement to which this scope of work as attached.
- Blueline reserves the right to move funds between approved Tasks 001–007 as necessary based on approved scope of work provided the overall budget of Tasks 001–007 is not exceeded. City Project Manager will be notified if funds are shifted.

EXHIBIT B
AXIS' Stanwood – 101st Ave NW & 273rd PI NW – Mapping Area

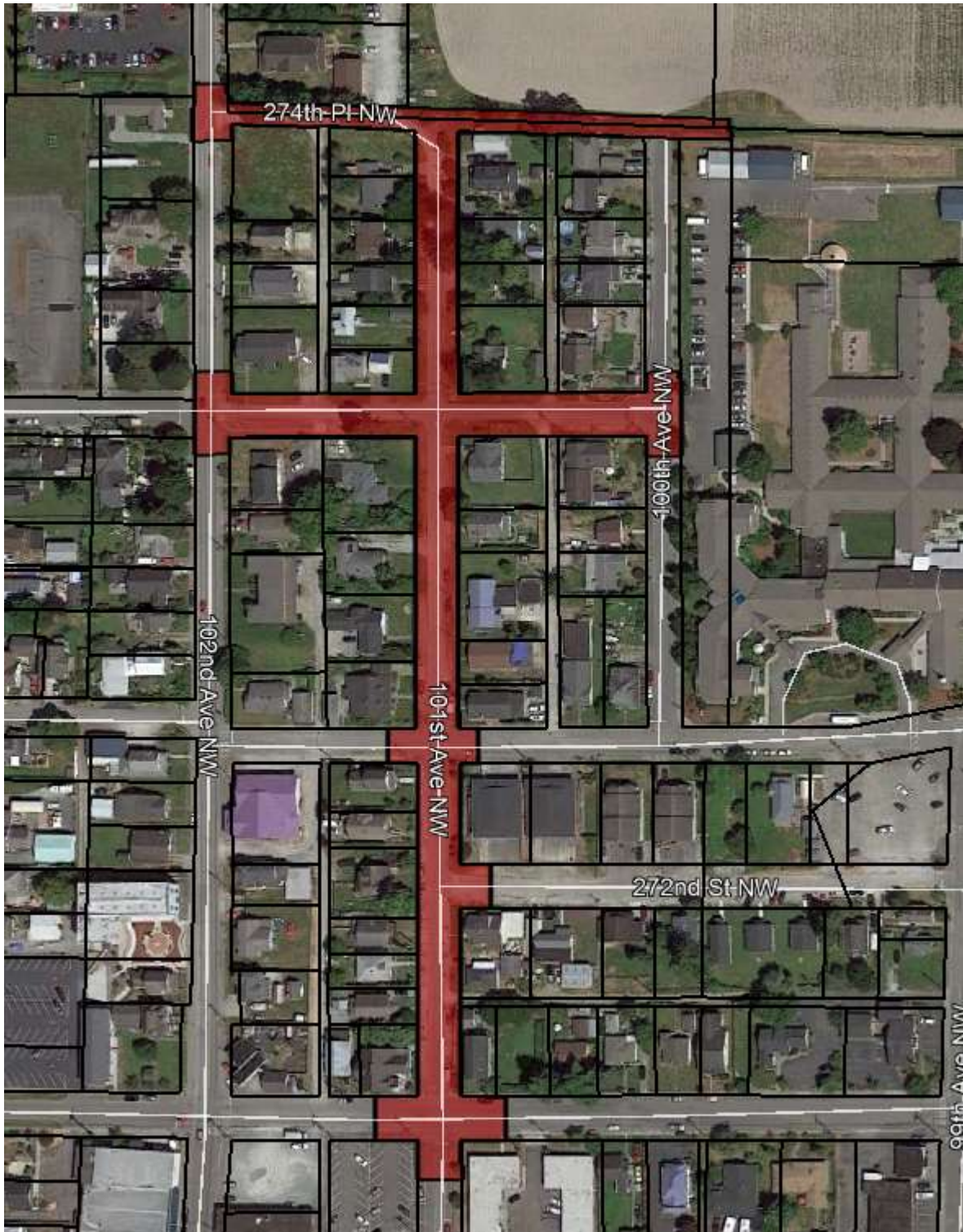


EXHIBIT C
AXIS' Stanwood – 102nd Ave NW & 271st St NW – Storm Drainage System Mapping



April 29, 2020
HWA Project No. 2020-P056-21

Blueline
25 Central Way
Suite 400
Kirkland, Washington 98033

Attention: Ken Lauzen, P.E.

Subject: **Geotechnical Engineering Scope of Work
101st Avenue NW Reconstruction
Stanwood, Washington**

Dear Ken:

As requested, HWA GeoSciences Inc. (HWA) is pleased to present this proposed scope and budget for geotechnical services associated with the 101st Avenue NW Reconstruction project in Stanwood, Washington. This scope of work is based on our understanding of the project and our conversations with Blueline.

PROJECT UNDERSTANDING

It is our understanding that the City of Stanwood plans to complete roadway and utility improvements along 101st Avenue from 271st St NW to 102nd Ave NW (following 274th Pl NW around at the north) and 273rd Pl NW from 102nd Ave NW to 100th Ave NW. Based on our understanding of the project objectives, HWA proposes the following geotechnical engineering services scope of work for the project.

GEOTECHNICAL SERVICES SCOPE

The proposed work will include the following tasks:

Geotechnical Project Setup:

- **Project Setup:** HWA will initiate the project and set up billing information in support of invoicing throughout the project.
- **Collect and Review Available Geotechnical Data:** HWA will review readily available geotechnical information along the project corridor. This review will include online geotechnical databases, geologic maps and HWA library.

Geotechnical Field Exploration Program:

- **Coordinate and Plan the Geotechnical Exploration Field Work:** HWA will plan and coordinate with the City, design team, and subcontractors to conduct one day of geotechnical explorations in support of the design and construction of the project.
- **Generate Geotechnical Explorations Work Plan Memo:** HWA will prepare a Geotechnical Work Plan Memorandum for the proposed exploration work consisting of one day of geotechnical drilling. HWA anticipates drilling five to six borings to a depth of 10 to 15 feet below ground surface during one day of drilling. The work plan will be submitted to the design team and the City for review and approval. The work plan will detail the type, location, and extent of proposed field explorations along with logistics necessary to perform the work such as traffic control plans and staging areas. The work plan will also be used for utility locating clearances and for permitting that may be necessary to access the exploration locations. We assume the City and/or Blueline in support of this project, will acquire and provide any required permits or right of entries at no cost to HWA.
- **Conduct Utility Locates:** Once prior to finalizing exploration plans and once prior to conducting our field exploration program, HWA will mark the proposed exploration locations and arrange for utility locates using the Utility Notification Center. HWA may be required to make an additional site visit to mark and verify the proposed drilling locations if the initial utility locate tickets are expired prior to mobilizing the drilling equipment. HWA will also utilize private utility locates on the day of drilling to further assure the clearance of boring locations from any buried utilities.
- **Conduct Geotechnical Explorations:** HWA will conduct one day of geotechnical explorations consisting of drilling five to six geotechnical borings to depth of 10 to 15 feet below ground surface along the project alignment to assess the subsurface soil and groundwater conditions. HWA anticipates conducting the proposed explorations will require traffic control measures consisting of single lane closure with alternating flagger controlled one-way traffic. One boring will constructed as a groundwater monitoring well. A groundwater monitoring transducer will be installed within the well to collect groundwater levels every 30 minutes.
- **Generate Boring Logs and Assign Laboratory Testing:** HWA will prepare summary boring logs and perform laboratory testing to evaluate relevant physical properties of the soils encountered in our explorations.
- **Groundwater Monitoring:** HWA will make up to two site visits to download groundwater data from the transducer. This data will be plotted to provide perspective contractors with anticipated groundwater levels.

Geotechnical Engineering Design Services:

- **Evaluate Geotechnical Explorations Field and Laboratory Data:** Based on the borings and the laboratory test results of selected samples, HWA will generate estimates of the soil strength and other properties needed to evaluate the effects the subsurface conditions will have on the proposed improvements.
- **Geotechnical Engineering:** HWA will evaluate the surface features and available subsurface data for the corridor to provide general geotechnical engineering recommendations including utility subgrade recommendations, roadway base stabilization, and pavement design. HWA assumes that a robust subgrade aggregate section will be required to address anticipated soft subgrade soils.
- **Project Coordination Meetings:** HWA will participate in up to one (1) project coordination meeting at the City of Stanwood Offices.
- **Prepare Geotechnical Engineering Report:** HWA will prepare a draft geotechnical report for the project. This report will include descriptions of the site reconnaissance, geotechnical explorations, maps showing the location of existing subsurface data, and generalized geotechnical recommendations. This report will be finalized upon receiving review comments.

Project Management

- **Invoice Generation and Processing:** HWA will prepare monthly invoices, and progress reports for the duration of the design phase of the project.
- **Geotechnical Task Management:** HWA will provide task management to all geotechnical related aspects of the project. HWA will correspond with the City and the design team in the form of meetings, emails, fax, and telephone calls, as necessary.

ASSUMPTIONS

- The geotechnical explorations proposed herein will not be used to assess site environmental conditions. However, visual or olfactory observations regarding potential contamination will be noted. Analysis, testing, storage, and handling of potentially contaminated soil and ground water (either sampled or spoils from drilling) are beyond this scope of services. If contaminated soils and/or ground water are encountered, the material will be properly contained on-site for disposal as mutually agreed upon without additional cost to HWA.
- All non-contaminated drilling spoils and related debris will be drummed on site and transported off site for disposal by the drilling subcontractor.
- HWA will be responsible for all post drilling clean up.

- No geotechnical data report or baseline report will be generated as part of this work.
- No Phase 1 or Phase 2 Environmental Site Assessment will be completed by HWA.
- All required street use permits will be provided by the City at no cost to HWA.
- All geotechnical borings conducted through the pavement will be patched with quick setting cement. Saw cutting of the pavement or hot mix asphalt patches will not be required.
- All Geotechnical Explorations will be completed during daylight hours.
- The borehole locations will be surveyed by others.
- The groundwater monitoring well will be decommissioned by the contractor during construction.
- No uniform police officer will be required for traffic control implementation during the exploration program.
- No stormwater infiltration analysis will be completed due to anticipated fine grained soils.
- HWA will not be required to attend a project kick off meeting
- HWA reserves the right to transfer hours and budget dollars between tasks, labor and direct costs within the overall budget, as necessary to satisfy project requirements.

DELIVERABLES

- Geotechnical Explorations Work Plan Memorandum
- Draft and Final Geotechnical Engineering Report



April 29, 2020
HWA Project No. 2020-P056-21

We appreciate the opportunity to provide geotechnical services on this project. Please feel free to call if you have any questions or need additional information.

Sincerely,

HWA GEOSCIENCES INC.

A handwritten signature in black ink that reads "Donald J. Huling". The signature is written in a cursive style with a large, stylized 'D' and 'H'.

Donald J. Huling, P.E.
Geotechnical Engineer, Principal

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for the 101st Ave NW Reconstruction Project dated May 1, 2020

City of Stanwood - 101st Ave NW Reconstruction Project

Job Number: 20-133
Date: May 1, 2020

Prepared By: Kai Pope / Ken Lauzen
Checked By: Rob Dahn

		Project Manager		Project Engineer		Engineer		Engineering Designer				
Task #	Task Description	\$188/hr		\$178/hr		\$158/hr		\$146/hr		Total Hours	Total Cost	Total Cost (Rounded)
		Hours	\$	Hours	\$	Hours	\$	Hours	\$			
001	Project Management	80	\$ 15,040	40	\$ 7,120	0	\$ -	0	\$ -	120	\$ 22,160	\$ 22,200
002	Survey & Base Mapping										\$ 25,300	\$ 25,300
002A	Storm Drainage System Mapping										\$ 6,210	\$ 6,200
003	Geotechnical Engineering Services										\$ 31,400	\$ 31,400
004	Overall Preliminary Design	30	\$ 5,640	74	\$ 13,172	60	\$ 9,480	80	\$ 11,680	244	\$ 39,972	\$ 40,000
005	101st Ave NW PS&E	86	\$ 16,168	150	\$ 26,700	172	\$ 27,176	180	\$ 26,280	588	\$ 96,324	\$ 96,300
006	273rd PI NW PS&E	22	\$ 4,136	46	\$ 8,188	80	\$ 12,640	48	\$ 7,008	196	\$ 31,972	\$ 32,000
007	274th PI NW PS&E	24	\$ 4,512	38	\$ 6,764	64	\$ 10,112	36	\$ 5,256	162	\$ 26,644	\$ 26,600
008	Unassigned Services Reserve										\$ 27,998	\$ 28,000
	Expenses										\$ 2,000	\$ 2,000
TOTAL		242	\$ 45,496	348	\$ 61,944	376	\$ 59,408	344	\$ 50,224	1310	\$ 309,980	\$ 310,000

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for the 101st Ave NW Reconstruction Project dated May 1, 2020

City of Stanwood - 101st Ave NW Reconstruction Project

001 Project Management		Project Manager		Project Engineer		Engineer		Engineering Designer			
Item #	Description	\$188/hr		\$178/hr		\$158/hr		\$146/hr		TOTAL	TOTAL
		HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE
1	Project Meetings	40.0	\$ 7,520	20.0	\$ 3,560	0.0	\$ -	0.0	\$ -	60.0	\$ 11,080
2	Monthly Invoices / Progress Reports	12.0	\$ 2,256	0.0	\$ -	0.0	\$ -	0.0	\$ -	12.0	\$ 2,256
3	QA /QC	20.0	\$ 3,760	0.0	\$ -	0.0	\$ -	0.0	\$ -	20.0	\$ 3,760
4	General Project Coordination	4.0	\$ 752	10.0	\$ 1,780	0.0	\$ -	0.0	\$ -	14.0	\$ 2,532
5	Subconsultant Coordination	4.0	\$ 752	10.0	\$ 1,780	0.0	\$ -	0.0	\$ -	14.0	\$ 2,532
Total		80.0	\$ 15,040	40.0	\$ 7,120	0.0	\$ -	0.0	\$ -	120.0	\$ 22,160
										001 Fixed Fee	
										\$ 22,200	

002 Survey & Base Mapping			Total Cost (Per Axis)	Blueline Markup		
Item #	Description			15%		TOTAL
			Fixed Fee	Lump Sum		FEE
1	Survey & Base Mapping		\$ 22,000	\$ 3,300		\$ 25,300
						\$ -
Total						\$ 25,300
				002 Fixed Fee \$ 25,300		

002A Storm Drainage System Mapping			Total Cost (Per Axis)	Blueline Markup		
Item #	Description			15%		TOTAL
			Fixed Fee	Lump Sum		FEE
1	Survey & Base Mapping		\$ 5,400	\$ 810		\$ 6,210
						\$ -
Total						\$ 6,210
				002A Fixed Fee \$ 6,200		

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City of Stanwood - 101st Ave NW Reconstruction Project						
003 Geotechnical Engineering Services				Total Cost (Per HWA)	Blueline Markup	
Item #	Description				15%	TOTAL
				Fixed Fee	Lump Sum	FEE
1	Geotechnical Services			\$ 27,332	\$ 4,100	\$ 31,432
						\$ -
Total						\$ 31,432
003 Fixed Fee						\$ 31,400

004 Overall Preliminary Design		Project Manager		Project Engineer		Engineer		Engineering Designer			
Item #	Description	\$188/hr		\$178/hr		\$158/hr		\$146/hr		TOTAL	TOTAL
		HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE
1	Kick-off Meeting, including prep and follow up	8.0	\$ 1,504	6.0	\$ 1,068	4.0	\$ 632	4.0	\$ 584	22.0	\$ 3,788
2	Preliminary Roadway Layout and Analysis	16.0	\$ 3,008	36.0	\$ 6,408	24.0	\$ 3,792	60.0	\$ 8,760	136.0	\$ 21,968
3	Preliminary Water Main Design	2.0	\$ 376	12.0	\$ 2,136	8.0	\$ 1,264	12.0	\$ 1,752	34.0	\$ 5,528
4	Preliminary Engineers Estimate	2.0	\$ 376	8.0	\$ 1,424	16.0	\$ 2,528	2.0	\$ 292	28.0	\$ 4,620
5	Preliminary Design Report	2.0	\$ 376	12.0	\$ 2,136	8.0	\$ 1,264	2.0	\$ 292	24.0	\$ 4,068
Total		30.0	\$ 5,640	74.0	\$ 13,172	60.0	\$ 9,480	80.0	\$ 11,680	244.0	\$ 39,972
004 Fixed Fee											\$ 40,000

005 101st Ave NW PS&E		Project Manager		Project Engineer		Engineer		Engineering Designer			
Item #	Description	\$188/hr		\$178/hr		\$158/hr		\$146/hr		TOTAL	TOTAL
		HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE
1	60% Plans	24.0	\$ 4,512	36.0	\$ 6,408	24.0	\$ 3,792	72.0	\$ 10,512	156.0	\$ 25,224
2	60% Specifications	4.0	\$ 752	16.0	\$ 2,848	16.0	\$ 2,528	0.0	\$ -	36.0	\$ 6,128
3	60% Estimates	4.0	\$ 752	16.0	\$ 2,848	32.0	\$ 5,056	0.0	\$ -	52.0	\$ 8,656
4	60% Walk-Through, including prep and follow up	6.0	\$ 1,128	6.0	\$ 1,068	2.0	\$ 316	0.0	\$ -	14.0	\$ 2,512
5	90% Plans	20.0	\$ 3,760	32.0	\$ 5,696	16.0	\$ 2,528	60.0	\$ 8,760	128.0	\$ 20,744
6	90% Specifications	4.0	\$ 752	8.0	\$ 1,424	16.0	\$ 2,528	0.0	\$ -	28.0	\$ 4,704
7	90% Estimates	4.0	\$ 752	6.0	\$ 1,068	12.0	\$ 1,896	0.0	\$ -	22.0	\$ 3,716
8	Final Plans	16.0	\$ 3,008	16.0	\$ 2,848	32.0	\$ 5,056	48.0	\$ 7,008	112.0	\$ 17,920
9	Final Specifications	2.0	\$ 376	6.0	\$ 1,068	12.0	\$ 1,896	0.0	\$ -	20.0	\$ 3,340
10	Final Estimates	2.0	\$ 376	8.0	\$ 1,424	10.0	\$ 1,580	0.0	\$ -	20.0	\$ 3,380
Total		86.0	\$ 16,168	150.0	\$ 26,700	172.0	\$ 27,176	180.0	\$ 26,280	588.0	\$ 96,324
005 Fixed Fee											\$ 96,300

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City of Stanwood - 101st Ave NW Reconstruction Project

006 273rd PI NW PS&E		Project Manager		Project Engineer		Engineer		Engineering Designer			
Item #	Description	\$188/hr		\$178/hr		\$158/hr		\$146/hr		TOTAL	TOTAL
		HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE
1	60% Plans	4.0	\$ 752	12.0	\$ 2,136	24.0	\$ 3,792	24.0	\$ 3,504	64.0	\$ 10,184
2	60% Specifications	2.0	\$ 376	4.0	\$ 712	6.0	\$ 948	0.0	\$ -	12.0	\$ 2,036
3	60% Estimates	2.0	\$ 376	4.0	\$ 712	6.0	\$ 948	0.0	\$ -	12.0	\$ 2,036
4	60% Walk-Through, including prep and follow up	2.0	\$ 376	2.0	\$ 356	0.0	\$ -	0.0	\$ -	4.0	\$ 732
5	90% Plans	4.0	\$ 752	8.0	\$ 1,424	16.0	\$ 2,528	16.0	\$ 2,336	44.0	\$ 7,040
6	90% Specifications	1.0	\$ 188	2.0	\$ 356	4.0	\$ 632	0.0	\$ -	7.0	\$ 1,176
7	90% Estimates	1.0	\$ 188	2.0	\$ 356	4.0	\$ 632	0.0	\$ -	7.0	\$ 1,176
8	Final Plans	4.0	\$ 752	8.0	\$ 1,424	12.0	\$ 1,896	8.0	\$ 1,168	32.0	\$ 5,240
9	Final Specifications	1.0	\$ 188	2.0	\$ 356	4.0	\$ 632	0.0	\$ -	7.0	\$ 1,176
10	Final Estimates	1.0	\$ 188	2.0	\$ 356	4.0	\$ 632	0.0	\$ -	7.0	\$ 1,176
Total		22.0	\$ 4,136	46.0	\$ 8,188	80.0	\$ 12,640	48.0	\$ 7,008	196.0	\$ 31,972
006 Fixed Fee										\$ 32,000	

007 274th PI NW PS&E		Project Manager		Project Engineer		Engineer		Engineering Designer			
Item #	Description	\$188/hr		\$178/hr		\$158/hr		\$146/hr		TOTAL	TOTAL
		HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE	HRS	FEE
1	60% Plans	8.0	\$ 1,504	10.0	\$ 1,780	16.0	\$ 2,528	16.0	\$ 2,336	50.0	\$ 8,148
2	60% Specifications	2.0	\$ 376	2.0	\$ 356	4.0	\$ 632	0.0	\$ -	8.0	\$ 1,364
3	60% Estimates	2.0	\$ 376	2.0	\$ 356	4.0	\$ 632	0.0	\$ -	8.0	\$ 1,364
4	60% Walk-Through, including prep and follow up	0.0	\$ -	0.0	\$ -	0.0	\$ -	0.0	\$ -	0.0	\$ -
5	90% Plans	4.0	\$ 752	8.0	\$ 1,424	12.0	\$ 1,896	12.0	\$ 1,752	36.0	\$ 5,824
6	90% Specifications	1.0	\$ 188	2.0	\$ 356	4.0	\$ 632	0.0	\$ -	7.0	\$ 1,176
7	90% Estimates	1.0	\$ 188	2.0	\$ 356	4.0	\$ 632	0.0	\$ -	7.0	\$ 1,176
8	Final Plans	4.0	\$ 752	8.0	\$ 1,424	12.0	\$ 1,896	8.0	\$ 1,168	32.0	\$ 5,240
9	Final Specifications	1.0	\$ 188	2.0	\$ 356	4.0	\$ 632	0.0	\$ -	7.0	\$ 1,176
10	Final Estimates	1.0	\$ 188	2.0	\$ 356	4.0	\$ 632	0.0	\$ -	7.0	\$ 1,176
Total		24.0	\$ 4,512	38.0	\$ 6,764	64.0	\$ 10,112	36.0	\$ 5,256	\$ 162	\$ 26,644
007 Fixed Fee										\$ 26,600	

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City of Stanwood - 101st Ave NW Reconstruction Project

008Unassigned Services Reserve					Total Cost (10% of 001-007)		
Item #	Description				10%		TOTAL FEE
					As Needed		
1	Unassigned Services Reserve				\$27,998		\$27,998
Total					\$27,998		\$27,998
					008 NTE\$28,000		