



City of Grand Forks Staff Report

APPROVED & ACCEPTED
by City Council
Maureen Storstad
02/19/2019
Maureen Storstad
City Auditor

Committee of the Whole – February 11, 2019
City Council – February 19, 2019

Agenda Item: Design Engineering Services Agreement for City Project No. 8042, District 738 – University Avenue Reconstruction (Coulee to Columbia) and Medians & Street Lights (Coulee to 42nd Street)

Submitted by: Engineering Department, Mark S. Walker, PE (Assistant City Engineer)

Staff Recommended Action: **Approve Task Order Agreement with AE2S for Design Engineering Services in the amount of \$590,662 for Project No. 8042, District 738 – University Avenue Reconstruction (Coulee to Columbia) and Medians & Street Lights (Coulee to 42nd Street)**

Committee Recommended Action: Refer to City Council with recommendation to approve.

Council Action:

BACKGROUND:

SEE ADDITIONAL BACKGROUND INFORMATION IN SEPARATE STAFF REPORT ON THIS AGENDA FOR CREATING SPECIAL ASSESSMENT DISTRICT FOR THIS PROJECT.

The contract now being considered for approval is for Design Engineering services associated with this project. The firm of AE2S was chosen as the most qualified firm for this project from the City's pre-qualified engineers list. A scope of work and fee was then negotiated with the successful proposer. It should be noted that this Agreement is for design engineering services only and an Amendment to this Agreement will be needed in the future to add Construction Engineering Services. All engineering work on the project to date has been funded by UND and will continue to be funded by UND until the project Special Assessment District is created.

ANALYSIS AND FINDINGS OF FACT:

- SEE ADDITIONAL ANALYSIS AND FINDINGS OF FACT INFORMATION IN SEPARATE STAFF REPORT ON THIS AGENDA FOR CREATING SPECIAL ASSESSMENT DISTRICT FOR THIS PROJECT.
- This Agreement utilizes the Task Order agreement form where details of this project, including price, scope of work, schedule, etc., are identified on the attached pages and approximately 50 pages of standard contract language which was approved by City Council on February 21, 2017, are incorporated into the Agreement by reference.
- Agreement will be based on an hourly not-to-exceed contract amount.

SUPPORT MATERIALS:

- Task Order Agreement (13 pages)
- Consultant Rate Sheet (2 pages)

**SUGGESTED FORM OF
TASK ORDER**

This is Task Order No. <u> 3 </u> , consisting of <u> 14 </u> pages.
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Task Order

In accordance with Paragraph 1.01 of the Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated February 20, 2017 ("Agreement"), Owner and Engineer agree as follows:

1. Background Data

- a. Effective Date of Task Order: 2/19/2019
- b. Owner: City of Grand Forks, North Dakota
- c. Engineer: Advanced Engineering & Environmental Services, Inc.
- d. Specific Project (title): University Ave Reconstruction from Coulee to Columbia & Median and Lighting from Coulee to 42nd St, City Project No. 8042, District No. 738
- e. Specific Project (description): The Project is based upon the findings and conclusions of the preliminary engineering study for the corridor (City Project No. 7789. The improvements identified enhanced the overall efficiency, safety and aesthetics of the University Ave corridor for vehicles, bicycles and pedestrians. The project includes the following improvements:
 - Reconfiguration, realignment and closures of several drives, driveways and streets that include;
 - Converting the lane configuration of University Avenue to a dedicated vehicle lane and a shared bus/bicycle lane in each direction from Columbia to the Coulee,
 - Closure of Cornell northward of University Avenue and using it as a pedestrian corridor,
 - Realignment of Oxford Street with West Centennial Drive and converting both to two-way operations,
 - Installation of aesthetic median barriers from 42nd St to Columbia to funnel pedestrians to specific crossing locations;
 - Installing pedestrian crossing beacons at various locations,
 - Installing a new traffic signal at realigned Oxford with a pedestrian scramble,
 - Interconnecting the new traffic signal at Oxford with the existing signals at Columbia and 42nd Street,
 - Installing bus turnouts and shelters at various locations along the corridor;
 - New street lights and pedestrian lighting;
 - New sidewalks, with upgraded curb ramps to meet current ADA requirements;
 - Curb and gutter repairs, and other miscellaneous improvements.
 - 6" Watermain Abandonment along north side of University

Task Order Form

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Ave from Princeton St to Columbia Rd.

- Water Service replacement from Princeton St to Columbia Rd.

2. Services of Engineer

A. The specific services to be provided or furnished by Engineer under this Task Order are the services (and related terms and conditions) set forth in the following sections of Exhibit A, as attached to the Agreement referred to above, such sections being hereby incorporated by reference:

- Final Design Phase (Exhibit A, Paragraph A1.03)
- Bidding or Negotiating Services (Exhibit A, Paragraph A1.04)

B. Other Services

Engineer shall also provide the following services: *None*

C. All of the services included above comprise Basic Services for purposes of Engineer's compensation under this Task Order.

3. Additional Services

D. Additional Services that may be authorized or necessary under this Task Order are set forth as Additional Services in Part 2—Additional Services, of Exhibit A, "Engineer's Services for Task Order," modified for this specific Task Order, and attached to and incorporated as part of this Task Order.

4. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 of the Agreement and in Exhibit B.

5. Task Order Schedule

In addition to any schedule provisions provided in Exhibit A or elsewhere, the parties shall meet the estimated schedule below:

- 2/11 – City Committee of Whole Creates Special Assessment District
- 2/19 – City Council Approves Special Assessment District Creation
- 2/25 – Present Opinion of Probable Construction Cost, and Engineer's Report, to Committee of Whole
- 3/4 – Present Opinion of Probable Construction Cost, and Engineer's Report, to City Council
- 3/11 – Committee of Whole to approve plans and specs and approval to advertise project
- 3/16 – Begin advertisement for construction bids
- 3/18 – City Council to approve plans and specs and approval to advertise project
- 4/1 – Open Construction Bids
- 4/8 – Bids to Committee of the Whole for recommendation of approval
- 4/15 – Award Construction Bid at City Council

In addition to the schedule above, the Owner shall submit comments and instructions regarding the final Drawings and Specifications, assembled drafts of other Construction Contract Documents, the draft bidding-related documents (or requests for proposals or other construction procurement documents), and

any other Final Design Phase deliverables, to Engineer within 7 days of the receipt of the final Drawings and Specifications, assembled drafts of other Construction Contract Documents, the draft bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables from Engineer.

6. Payments to Engineer

A. Owner shall pay Engineer for services rendered under this Task Order as follows:

Description of Service	Amount	Basis of Compensation
Final Design Phase (Exhibit A - A1.03)	\$566,980.00	Hourly Not-to-Exceed
Bidding or Negotiating Phase (Exhibit A - A1.04)	\$23,683.00	Hourly Not-to-Exceed
TOTAL COMPENSATION	\$590,662.00	Hourly No-to-Exceed

Compensation items and totals based in whole or in part on Hourly Rates or Direct Labor are estimates only. Lump sum amounts and estimated totals included in the breakdown by phases incorporate Engineer’s labor, overhead, profit, reimbursable expenses (if any), and Consultants’ charges, if any. For lump sum items, Engineer may alter the distribution of compensation between individual phases (line items) to be consistent with services actually rendered, but shall not exceed the total lump sum compensation amount unless approved in writing by the Owner.

B. The terms of payment are set forth in Article 4 of the Agreement and in the applicable governing provisions of Exhibit C.

7. Consultants retained as of the Effective Date of the Task Order:

- A. Kadrmaz, Lee & Jackson (KLJ) – Traffic Engineering, Construction Traffic Control, Signage and Pavement Marking, Vehicle and Pedestrian Traffic Signal Design and Programming
- B. RDG Planning & Design – Landscape Architecture

8. Other Modifications to Agreement and Exhibits:

9. Attachments:

- A. Attachment 1 to Exhibit A: Project Specific Engineer’s Estimated Labor and Reimbursable Expenses.
- B. Attachment 2 to Exhibit A: Engineer’s Standard Hourly Rates and Reimbursable Expenses.

10. Other Documents Incorporated by Reference:

11. Terms and Conditions

Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

The Effective Date of this Task Order is 2/19/2019.

OWNER:

ENGINEER:

By: _____

By: _____

Print Name: _____

Print Name: _____

Title: Mayor

Title: _____

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

DESIGNATED REPRESENTATIVE FOR TASK ORDER:

Name: _____

Name: _____

Title: _____

Title: _____

Address: 255 North Fourth Street
PO Box 5200
Grand Forks, ND 58206-5200

Address: 4050 Garden View Drive, Suite 200
Grand Forks, ND 58201

E-Mail Address: _____

E-Mail Address: _____

Phone: _____

Phone: 701.746.8087

Task Order Form

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Engineer's Services for Task Order

PART 1—BASIC SERVICES

A1.01 *Study and Report Phase Services (Not Included)*

A1.02 *Preliminary Design Phase (Not Included)*

A1.03 *Final Design Phase*

A. As Basic Services, Engineer shall:

1. Provide Project management duties to ensure the project meets the agreed upon schedule and overall project budget. Project management includes general administrative duties including supervision and coordination of the project team, review of project costs and billings, and preparation of invoices.
2. Coordinate project related meetings with key representatives of the project team.
3. Coordinate project with adjacent projects in the vicinity as it relates to construction phasing.
4. Provide necessary field surveys and topographic and utility mapping for Engineer's design purposes. Comply with the scope of work and procedure for the identification and mapping of existing utilities as set forth in the Task Order.
5. Coordinate improvements with utility companies and possible relocation plans.
6. Prepare final Drawings and Specifications indicating the scope, extent, and character of the Work to be performed and furnished by Contractor. Final Drawings and Specifications Include:
 - a. Geometric Layout and Design of Street, Medians, Bus Turnouts and Sidewalk;
 - b. Vertical Street Alignment and Berm Grading Design;
 - c. Storm Sewer Inlet and Lateral Design;
 - d. Traffic Signal Design;
 - e. Pedestrian Hybrid Beacon Design;
 - f. Fiber Optic Signal and Beacon Interconnect Design;
 - g. Traffic Signal Timing and Programming;
 - h. Design of Signage and Pavement Markings;

- i. Landscape Architecture which includes: median planters and urns, median landscaping, irrigation, decorative paving, decorative lighting, and metal landscape railings and pedestrian barrier fences;
 - j. Street Lighting Design;
 - k. Pedestrian Lighting Design;
 - l. Removals of pavement and other miscellaneous existing improvements;
 - m. Abandonment of 6" watermain along north University Ave and replacement of water services and miscellaneous appurtenances from Princeton St to Columbia Rd;
 - n. Erosion and Sediment Control Design.
7. Visit the Site as needed to assist in preparing the final Drawings and Specifications.
 8. Identify, consult with, and analyze requirements of governmental authorities (NDDOT) having jurisdiction to approve the portions of the Specific Project to be designed or specified by Engineer.
 9. Advise Owner of any need for Owner to obtain, furnish, or otherwise make available to Engineer additional Specific Project-related data and information, for Engineer's use in the project.
 10. Provide technical criteria, written descriptions, and design data for Owner's use in filing applications for permits from or approvals of governmental authorities having jurisdiction to review or approve the final design; assist Owner in consultations with such authorities; and revise the Drawings and Specifications in response to directives from such authorities, as appropriate.
 11. Based on the information contained in the Final Design Phase documents, prepare an opinion of probable Construction Cost, and assist Owner in tabulating the various cost categories which comprise Total Project Costs.
 12. After consultation with Owner, include in the Construction Contract Documents any specific protocols for the transmittal of Project-related correspondence, documents, text, data, drawings, information, and graphics, in electronic media or digital format, either directly, or through access to a secure Project website. Any such protocols shall be applicable to transmittals between and among Owner, Engineer, and Contractor during the Construction Phase and Post-Construction Phase, and unless agreed otherwise shall supersede any conflicting protocols previously established for transmittals between Owner and Engineer.
 13. Advise Owner of any recommended adjustments to the opinion of probable Construction Cost.
 14. Prepare permanent easements for sidewalks or other miscellaneous improvements that may fall outside of right-of-way.
 15. Prepare construction easements for access to private property that may be needed for construction of miscellaneous project improvements.

Exhibit A – Engineer's Services

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16. Assist Owner in assembling known reports and drawings of Site conditions, and in identifying the technical data contained in such reports and drawings upon which bidders or other prospective contractors may rely.
 17. In addition to preparing the final Drawings and Specifications, assemble drafts of other Construction Contract Documents based on specific instructions and contract forms, text, or content received from Owner.
 18. Prepare or assemble draft bidding-related documents (or requests for proposals or other construction procurement documents), based on the specific bidding or procurement-related instructions and forms, text, or content received from Owner.
 19. Pursuant to the Task Order schedule, furnish for review by Owner, its legal counsel, and other advisors, the required number of copies of the final Drawings and Specifications, assembled drafts of other Construction Contract Documents, the draft bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables, and review them with Owner. Within the time required by the Task Order schedule, Owner shall submit to Engineer any comments regarding the furnished items, and any instructions for revisions.
 20. Pursuant to the Task Order schedule, revise the final Drawings and Specifications, assembled drafts of other Construction Contract Documents, the draft bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables in accordance with comments and instructions from the Owner, as appropriate, and submit the required number of final copies of such documents to Owner after receipt of Owner's comments and instructions.
- B. Engineer's services under the Final Design Phase will be considered complete on the date when Engineer has delivered to Owner the final Drawings and Specifications, other assembled Construction Contract Documents, bidding-related documents (or requests for proposals or other construction procurement documents), and any other Final Design Phase deliverables.
- C. The number of prime contracts for Work designed or specified by Engineer upon which the Engineer's compensation has been established under this Task Order is one. If more prime contracts are awarded, Engineer shall be entitled to an equitable increase in its compensation under this Task Order.

A1.02 *Bidding or Negotiating Phase*

- A. As Basic Services, Engineer shall:
1. Assist Owner in advertising for and obtaining bids or proposals for the Work, assist Owner in issuing assembled design, contract, and bidding-related documents (or requests for proposals or other construction procurement documents) to prospective contractors, and, where applicable, maintain a record of prospective contractors to which documents have been issued, attend pre-bid conferences, if any, and receive and process contractor deposits or charges for the issued documents.
 2. Prepare and issue Addenda as appropriate to clarify, correct, or change the issued documents.

Exhibit A – Engineer's Services

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3. Provide information or assistance needed by Owner in the course of any review of proposals or negotiations with prospective contractors.
 4. Consult with Owner as to the qualifications of prospective contractors.
 5. Consult with Owner as to the qualifications of Subcontractors, suppliers, and other individuals and entities proposed by prospective contractors, for those portions of the Work as to which review of qualifications is required by the issued documents.
 6. If the issued documents require, the Engineer shall evaluate and determine the acceptability of "or equals" and substitute materials and equipment proposed by prospective contractors , provided that such proposals are allowed by the bidding-related documents (or requests for proposals or other construction procurement documents) prior to award of contracts for the Work. Services under this paragraph are subject to the provisions of Paragraph A2.01.B.2 of this Exhibit A.
 7. Attend the bid opening, prepare bid tabulation sheets to meet Owner's schedule, and assist Owner in evaluating bids or proposals, assembling final contracts for the Work for execution by Owner and Contractor, and in issuing notices of award of such contracts.
 8. If Owner engages in negotiations with bidders or proposers, assist Owner with respect to technical and engineering issues that arise during the negotiations.
- B. The Bidding or Negotiating Phase will be considered complete upon commencement of the Construction Phase or upon cessation of negotiations with prospective contractors (except as may be required if Exhibit F is a part of this Task Order).

A1.03 *Construction Phase (Not Included)*

A1.04 *Post-Construction Phase (Not Included)*

A1.05 *Commissioning Phase (Not Included)*

A1.06 *Other Services:* Each specific Task Order may include Basic Services that do not fit into the categories above. Such services should be expressly stated in the specific Task Order itself.

PART 2—ADDITIONAL SERVICES

A2.01 *Additional Services Requiring an Amendment to Task Order*

- A. *Advance Written Authorization Required:* During performance under a Task Order, Owner may authorize Engineer in writing to furnish or obtain from others Additional Services of the types listed below. Unless expressly indicated above or in the specific Task Order to be included Basic Services, the following services are not included as part of Basic Services and will be paid for by Owner as Additional Services, using the basis of compensation for Additional Services, as indicated in the specific Task Order.
1. Preparation of applications and supporting documents (in addition to those furnished under Basic Services) for private or governmental grants, loans, or advances in connection with the Specific Project; preparation or review of environmental assessments and impact statements;

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review and evaluation of the effects on the design requirements for the Specific Project of any such statements and documents prepared by others; and assistance in obtaining approvals of authorities having jurisdiction over the anticipated environmental impact of the Specific Project.

2. Services to make measured drawings of existing conditions or facilities, to conduct tests or investigations of existing conditions or facilities, or to verify the accuracy of drawings or other information furnished by Owner or others.
3. Services resulting from significant changes in the scope, extent, or character of the portions of the Specific Project designed or specified by Engineer, or the Specific Project's design requirements, including, but not limited to, changes in size, complexity, Owner's schedule, character of construction, or method of financing; and revising previously accepted studies, reports, Drawings, Specifications, or Construction Contract Documents when such revisions are required by changes in Laws and Regulations enacted subsequent to the Effective Date of the Task Order or are due to any other causes beyond Engineer's control.
4. Services resulting from Owner's request to evaluate additional Study and Report Phase alternative solutions beyond those agreed to in Paragraph A1.01.A.1 and 2.
5. Services required as a result of Owner's providing incomplete or incorrect Specific Project information to Engineer.
6. Providing renderings or models for Owner's use, including services in support of building information modeling or civil integrated management.
7. Undertaking investigations and studies including, but not limited to:
 - a. detailed consideration of operations, maintenance, and overhead expenses;
 - b. based on the engineering and technical aspects of the Project, the preparation of feasibility studies (such as those that include projections of output capacity, utility project rates, project market demand, or project revenues) and cash flow analyses, provided that such services do not include rendering advice regarding municipal financial products or the issuance of municipal securities;
 - c. preparation of appraisals;
 - d. evaluating processes available for licensing, and assisting Owner in obtaining process licensing;
 - e. detailed quantity surveys of materials, equipment, and labor; and
 - f. audits or inventories required in connection with construction performed or furnished by Owner.
8. Furnishing services of Consultants for other than Basic Services.
9. Providing data or services of the types described in Exhibit B, when Owner retains Engineer to provide such data or services instead of Owner furnishing the same.

Exhibit A – Engineer's Services

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10. Providing the following services:
 - a. Services attributable to more prime construction contracts than specified in Paragraph A1.03.C or the specific Task Order.
 - b. Services to arrange for performance of construction services for Owner by contractors other than the principal prime Contractor, and administering Owner's contract for such services.
11. Services during out-of-town travel required of Engineer, other than for visits to the Site or Owner's office as required in Basic Services.
12. Preparing for, coordinating with, participating in and responding to structured independent review processes, including, but not limited to, construction management, cost estimating, project peer review, value engineering, and constructability review requested by Owner; and performing or furnishing services required to revise studies, reports, Drawings, Specifications, or other documents as a result of such review processes.
13. Preparing additional bidding-related documents (or requests for proposals or other construction procurement documents) or Construction Contract Documents for alternate bids or cost estimates requested by Owner for the Work or a portion thereof.
14. Assistance in connection with bid protests, rebidding, or renegotiating contracts for construction, materials, equipment, or services, except when such assistance is required to complete services required by Paragraph 5.02.A and Exhibit F.
15. Preparing conformed Construction Contract Documents that incorporate and integrate the content of all Addenda and any amendments negotiated by Owner and Contractor.
16. Providing Construction Phase services beyond the original date for completion and readiness for final payment of Contractor, but only if such services increase the total quantity of services to be performed in the Construction Phase, rather than merely shifting performance of such services to a later date.
17. Preparing Record Drawings, and furnishing such Record Drawings to Owner.
18. Supplementing Record Drawings with information regarding the completed Project, Site, and immediately adjacent areas obtained from field observations, Owner, utility companies, and other reliable sources.
19. Conducting surveys, investigations, and field measurements to verify the accuracy of Record Drawing content obtained from Contractor, Owner, utility companies, and other sources; revise and supplement Record Drawings as needed.
20. Preparation of operation, maintenance, and staffing manuals.
21. Protracted or extensive assistance in refining and adjusting of Project equipment and systems (such as initial startup, testing, and balancing).
22. Assistance to Owner in training Owner's staff to operate and maintain Specific Project equipment and systems.

Exhibit A – Engineer's Services

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23. Assistance to Owner in developing systems and procedures for (a) control of the operation and maintenance of Project equipment and systems, and (b) related recordkeeping.
 24. Preparing to serve or serving as a consultant or witness for Owner in any litigation, arbitration, mediation, lien or bond claim, or other legal or administrative proceeding involving the Project.
 25. Overtime work requiring higher than regular rates.
 26. Providing construction surveys and staking to enable Contractor to perform its work other than as required under Paragraph A1.05.A.8, and any type of property surveys or related engineering services needed for the transfer of interests in real property; and providing other special field surveys.
 27. Providing more extensive services required to enable Engineer to issue notices or certifications requested by Owner.
 28. Excessive services during any correction period, or with respect to guarantees called for in the Construction Contract (except as agreed to under Basic Services).
 29. Provide assistance in responding to the presence of any Constituent of Concern at any Site, in compliance with current Laws and Regulations.
 30. Other additional services performed or furnished by Engineer not otherwise provided for in this Agreement.
- B. *Advance Written Authorization Not Required:* Engineer shall advise Owner in advance that Engineer will immediately commence to perform or furnish the Additional Services of the types listed below. For such Additional Services, Engineer need not request or obtain specific advance written authorization from Owner. Engineer shall cease performing or furnishing such Additional Services upon receipt of written notice from Owner. Unless expressly indicated above or in the specific Task Order to be included Basic Services, the following services are not included as part of Basic Services and will be paid for by Owner as Additional Services, using the basis of compensation for Additional Services, as indicated in the specific Task Order.
1. Services in connection with Work Change Directives and Change Orders to reflect changes requested by Owner.
 2. Services in making revisions to Drawings and Specifications occasioned by the acceptance of substitute materials or equipment other than "or equal" items; services after the award of the Construction Contract in evaluating and determining the acceptability of a proposed "or equal" or substitution which is found to be inappropriate for the Project; evaluation and determination of an excessive number of proposed "or equals" or substitutions, whether proposed before or after award of the Construction Contract.
 3. Services resulting from significant delays, changes, or price increases occurring as a direct or indirect result of materials, equipment, or energy shortages.
 4. Additional or extended services arising from (a) the presence at the Site of any Constituent of Concern or items of historical or cultural significance, (b) emergencies or acts of God

Exhibit A – Engineer's Services

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endangering the Work, (c) damage to the Work by fire or other causes during construction, (d) a significant amount of defective, neglected, or delayed Work, (e) acceleration of the progress schedule involving services beyond normal working hours, or (f) default by Contractor.

5. Services (other than Basic Services during the Post-Construction Phase) in connection with any partial utilization of the Work by Owner prior to Substantial Completion.
6. Evaluating unreasonable or frivolous requests for interpretation or information (RFIs), Change Proposals, or other demands from Contractor or others in connection with the Work, or an excessive number of RFIs, Change Proposals, or demands.
7. Reviewing a Shop Drawing or other Contractor submittal more than three times, as a result of repeated inadequate submissions by Contractor.

While at the Site, compliance by Engineer and its staff with those terms of Owner's or Contractor's safety program provided to Engineer subsequent to the Effective Date that exceed those normally required of engineering personnel by federal, State, or local safety authorities for similar construction sites.

Attachment 1 to Exhibit A
 Date: 2/8/2019
 Project: University Ave Reconstruction from Coulee to
 Columbia and Median and Lighting from Coulee to 42nd St
 Owner: City of Grand Forks
 City Project No. 8042 District No. 738

Phase Number	Phase Description	Project Manager III	Engineer IV	Engineer IV	GIS Specialist IV	Engineering Technician IV	Engineer III	Engineering Technician VI	Engineer IV	Engineering Technician V	Land Surveyor IV	Engineer Technician III	Project Manager III	Financial Analyst III	Project Coordinator III	Project Coordinator II	TOTAL	TOTAL	TOTAL	TOTAL
		Structural Engineer	Project Engineer - Civil	Project Manager	Engineering Technician	Engineering Technician	Water Resources Engineer	Electrical Engineering Technician	Electrical Engineer	Structural Engineer Technician	Land Surveyor	Survey Technician	Professional Land Surveyor	Project Accountant	Plan Reproduction	Administrative Assistant	Est. Hours	Est. Labor Cost	Est. Expense	Est. Fee
	Contract Billing Rate	\$202	\$178	\$178	\$141	\$120	\$157	\$150	\$175	\$135	\$145	\$103	\$202	\$123	\$120	\$105				
		2019 Rates																		
040	Final Design	30	324	132	360	360	120	360	324	80	72	60	20	4	0	48	2,294	348,892	218,088	\$566,980
	Outside Services - RDG																0	\$0	\$76,461	\$76,461
	Outside Services - KLJ																0	\$0	\$139,577	\$139,577
050	Bidding and Negotiations	2	12	6	0	16	2	4	4	0	0	0	0	0	24	0	70	10,034	13,649	\$23,683
	Outside Services - RDG																0	\$0	\$8,138	\$8,138
	Outside Services - KLJ																0	\$0	\$3,011	\$3,011
	Estimated Totals For Services	32	336	138	360	376	122	364	328	80	72	60	20	4	24	48	2,364	\$358,926	\$231,736	\$590,662

ADVANCED ENGINEERING AND ENVIRONMENTAL SERVICES, INC. 2019 HOURLY FEE AND EXPENSE SCHEDULE

<u>Labor Rates*</u>			
Administrative I	\$59.00	I&C Assistant	\$82.00
Administrative II	\$73.00	I&C Technician I	\$100.00
Administrative III	\$87.00	I&C Technician II	\$112.00
		I&C Technician III	\$128.00
Communications Specialist I	\$90.00	I&C Technician IV	\$140.00
Communications Specialist II	\$103.00	I&C Technician V	\$153.00
Communications Specialist III	\$118.00	I&C Specialist	\$166.00
Communications Specialist IV	\$142.00	I&C Senior Specialist	\$175.00
Communications Specialist V	\$157.00	I&C Manager	\$184.00
Construction Services Rep I	\$83.00	IT I	\$100.00
Construction Services Manager I	\$136.00	IT II	\$123.00
Construction Services Manager II	\$147.00	IT III	\$139.00
Construction Services Manager III	\$166.00	IT IV	\$157.00
Construction Services Manager IV	\$183.00	IT V	\$173.00
Construction Services Manager V	\$201.00	IT VI	\$183.00
		IT Manager	\$203.00
Engineering Assistant 1	\$69.00	Land Surveyor Assistant	\$82.00
Engineering Assistant 2	\$88.00	Land Surveyor I	\$98.00
Engineer I	\$103.00	Land Surveyor II	\$118.00
Engineer II	\$132.00	Land Surveyor III	\$132.00
Engineer III	\$157.00	Land Surveyor IV	\$146.00
Engineer IV	\$178.00		
Engineer V	\$194.00	Marketing Consultant I	\$83.00
Engineer VI	\$218.00	Marketing Consultant II	\$105.00
Engineer VII	\$233.00	Marketing Consultant III	\$129.00
Engineer VIII	\$243.00	Marketing Consultant IV	\$147.00
		Marketing Consultant V	\$166.00
Engineering Technician I	\$68.00	Operations Specialist I	\$83.00
Engineering Technician II	\$87.00	Operations Specialist II	\$100.00
Engineering Technician III	\$103.00	Operations Specialist III	\$126.00
Engineering Technician IV	\$120.00	Operations Specialist IV	\$142.00
Engineering Technician V	\$136.00	Operations Specialist V	\$165.00
Engineering Technician VI	\$150.00		
Engineering Technician VII	\$166.00	Program Coordinator I	\$178.00
		Program Coordinator II	\$190.00
Financial Analyst I	\$90.00	Program Coordinator III	\$202.00
Financial Analyst II	\$105.00		
Financial Analyst III	\$123.00	Project Coordinator I	\$98.00
Financial Analyst IV	\$139.00	Project Coordinator II	\$106.00
Financial Analyst V	\$157.00	Project Coordinator III	\$119.00
Financial Analyst VI	\$178.00	Project Coordinator IV	\$135.00
Financial Analyst VII	\$194.00		
Financial Analyst VIII	\$212.00	Project Manager I	\$168.00
		Project Manager II	\$183.00
GIS Specialist I	\$88.00	Project Manager III	\$202.00
GIS Specialist II	\$105.00		
GIS Specialist III	\$126.00	Senior Designer	\$190.00
GIS Specialist IV	\$141.00	Senior Consultant I	\$212.00
GIS Specialist V	\$155.00	Senior Consultant II	\$234.00
		Senior Consultant III	\$248.00
		Technical Expert I	\$250.00
		Technical Expert II	\$272.00
		Technical Expert III	Negotiable

Reimbursable Expense Rates

Transportation	\$0.65/mile
Survey Vehicle	\$0.70/mile
B&W Photocopies 8½" x11"	\$0.10/copy
B&W Laser Printouts 8½" x11"	\$0.20/page
Color Laser Printouts/Copies 8½" x11"	\$0.68/page
Plots – Color Bond	\$1.25/s.f.
Plots – Monochrome Bond/Vellum	\$0.75/s.f.
Plots – Film/Photo High Gloss	\$2.00/s.f.
UAS - Photo/Video Grade	\$100.00/day
Video Equipment	\$100.00/each
Total Station – Robotic	\$35.00/hour
Geo 7 PR GPS	\$25.00/hour
Fast Static/RTK GPS	\$50.00/hour
R1 GNSS GPS	\$30.00/day
Sonar Mite	\$50.00/day
All-Terrain Vehicle/Boat	\$100.00/day
Air Transportation - Pilatus	\$1,600.00/hour
Air Transportation – Cirrus	\$700.00/hour
In-house Lodging	\$150.00/day
Legal Services Reimbursement	\$224.00/hour
Outside Services**	cost *1.05
Geotechnical Services	cost *1.30
Out of Pocket Expenses***	cost*1.15
Rental Car	cost*1.20

* Position titles are for labor rate grade purposes only.

** Includes laboratory testing, architectural and engineering consultants, surveying, etc.

*** Includes toll telephone, shipping, postage, subsistence, technical literature, equipment rental, etc.

These rates are subject to adjustment each year on January 1.