



City of Grand Forks Staff Report

Committee of the Whole – April 22, 2019

City Council – May 6, 2019

Agenda Item: Amendment No. 1 to Engineering Services Agreement with AE2S 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 Amendment No. 1 with AE2S for Construction Administration Services in the amount of \$1,053,788 for City Project No. 8042, District 738 – University Avenue Reconstruction (Coulee to Columbia) and Medians & Street Lights (Coulee to 42nd Street)**

Committee Recommended Action: Moved to City Council with recommendation to approve. Vein recused.

Council Action:

BACKGROUND:

In February 2019, an Agreement with AE2S was approved by Council in the amount of \$590,662. The scope of work for the February 2019 Agreement included only Design and Bid Phase Engineering services with the intent that Construction Engineering services would be added by an Amendment at a later date. The firm of AE2S was chosen as the most qualified firm for this project from the City's pre-qualified engineers list. Bids for this project were received on April 3, 2019. On April 15, Council awarded the contract to Opp Construction, in the amount of \$11,997,092.67.

This project will consist of reconstructing University Avenue from the English Coulee to Columbia Road and various improvements to the existing roadway from the English Coulee to 42nd Street. The project will include realignment/closure of several drives and driveways, installation of aesthetic barriers in the medians to funnel pedestrians to specific crossing locations, realignment of Oxford Street with West Centennial Drive and converting both to two-way operations, installing pedestrian crossing beacons at various locations, installing a new

traffic signal at realigned Oxford Street with a pedestrian scramble, interconnecting the new traffic signal at Oxford with the existing signals at Columbia Road, installing bus turnouts at various locations, closure of Cornell Street northward of University Avenue and using it as a pedestrian corridor, converting the lane configuration of University Avenue to a dedicated vehicle lane and a shared bus/bicycle lane in each direction from Columbia Road to the Coulee, new street lights, new pedestrian lighting, new wider sidewalks along the entire project length, upgrading the sidewalk curb ramps to meet current ADA requirements, landscaping enhancements, and other miscellaneous improvements. The majority of the improvements are proposed for the University Avenue section from the English Coulee to Columbia Road with significantly less improvements proposed from the English Coulee to 42nd Street. These improvements will enhance the overall efficiency, safety, and aesthetics of the University Avenue corridor for vehicles, bicycles, and pedestrians.

This project has been considered at a number of previous Council/Committee/Public meetings, some of which are as follows:

- August 21, 2017 - An Agreement between the City and UND was approved by the City Council wherein the City would hire a consultant to study and recommend improvements with the consultant fees to be reimbursed by UND.
- November 20, 2017 - Agreement between the City and AE2S was approved by City Council to conduct a study of the roadway corridor.
- January 28, 2019 – A presentation describing proposed project improvements and depicting images of the proposed project once completed was provided to the Committee of the Whole.
- February 4, 2019 – Council directed staff to proceed with development of the project.
- February 19, 2019 – Council created a Special Assessment District for the project and approved a Design Engineering Services Agreement with AE2S in the amount of \$590,662.
- March 4, 2019 – Council approved the Engineer's Report and directed the Engineering Department to prepare Plans & Specifications and advertise for Construction Bids for this project.
- March 11, 2019 – Council approved the Plans and Specifications for this project.
- April 15, 2019 – Council awarded a contract to low bidder, Opp Construction, in the amount of \$11,997,092.67 and approved a budget amendment in the amount of \$3,130,000 for this project.
- In addition, the UND “Coulee to Columbia” redevelopment has been previously reviewed at a number of various committee meetings.

ANALYSIS AND FINDINGS OF FACT:

- The original Engineering Services Agreement was intended to include Design and Bid Phase Engineering services only and was not intended to include Construction Engineering services.
- The additional funds requested by this Amendment are intended to pay for Construction Engineering services.
- The amount of the original contract Agreement was \$590,662.
- The proposed amount of Amendment No. 1 is \$1,053,788 bringing the new contract amount to \$1,644,450.
- The original Agreement and proposed Amendment are on an hourly not-to-exceed contract basis.

- There are a number of project features, including pedestrian lighting, landscape features, median planters, sidewalks, etc. that are proposed to be special assessed to UND at 100%.
- Other project features are proposed to be paid for at 50% City funding and 50% Special Assessed.
- Normally, a street reconstruction project is funded with 80% City funding; however, University Avenue was not scheduled for reconstruction at this time so a lower and compromised City funding share has been proposed. This arrangement is similar to the City funding share proposed for reconstructing S 30th Street adjacent to the new Altru Hospital facility proposed to be reconstructed in the 2021/22 timeframe.
- Also included in this project is watermain replacement work that will be 100% funded by the City.
- The total project cost is currently estimated at \$14.2m including 5% contingencies and engineering costs with the City share of approximately \$4.1m.
- The estimated City share will be from the following funding sources:

\$ 255,000	Waterworks Fund 5300 (for watermain replacement work)
\$ 728,800	Street/Infrastructure Fund 4815 (budgeted funds for a SIG project not constructed this year and transferred from Economic Development Fund 2163)
<u>\$3,130,000</u>	Street/Infrastructure Fund 4815 Budget Amendment approved April 15, 2019
\$4,113,800	Estimated City Share
- The estimated amount to be Special assessed to UND, including a 5% contingency, engineering costs, and a Special Assessment overhead costs is \$12.1m.
- Based on a Traffic Study Report by KLJ, the proposed improvements have substantial safety and operational benefits and during peak pedestrian/bicycle/transit periods (9 AM-4 PM), the proposed roadway improvement plan is forecasted to reduce conflicts by 27% and improve overall roadway efficiency by 42%.

SUPPORT MATERIALS:

- Proposed Amendment No. 1 (9 pages)
- Supporting Documentation showing Engineering tasks, hours, and cost breakdown (1 page)
- Project Location Map (Assessment District Map - 1 page)

This is **EXHIBIT K**, consisting of 2 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services – Task Order Edition** dated February 20, 2017.

Amendment To Task Order No. 3

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: University Ave Reconstruction from Coulee to Columbia & Median and Lighting from Coulee to 42nd St, City Project No. 8042, District No. 738

2. Description of Modifications

- a. Engineer shall perform the following Additional Services:

Construction Phase and Post-Construction Phase Services
- b. The Scope of Services currently authorized to be performed by Engineer in accordance with the Task Order and previous amendments, if any, is modified as follows:

Modified or Additional Services are outlined in Exhibit A.
- c. The responsibilities of Owner with respect to the Task Order are modified as follows: N/A
- d. For the Additional Services or the modifications to services set forth above, Owner shall pay Engineer the following additional or modified compensation:

Payments to Engineer			
1.	Basic Services (Part 1 of Exhibit A)	Amount	Basis of Compensation
a.	Construction Phase (A1.05)*	\$1,034,979.00	
b.	Post-Construction Phase (A1.06)	\$18,809.00	
TOTAL COMPENSATION (lines 1.a-b)		\$1,053,788.00	Hourly Not-to-Exceed

*Based on construction time for completion as outlined in line e. below. Assumes 8 month time period for RPR services.

- e. The schedule for rendering services under this Task Order is modified as follows:

Substantial Completion: October 1, 2019
Construction Final Completion: June 30, 2020

- f. Other portions of the Task Order (including previous amendments, if any) are modified as follows:

Exhibit D: Duties, Responsibilities and Limitations of Authority of Resident Project Representative.
Attachment 1 to Exhibit A: Project Specific Engineer’s Estimate Labor and Reimbursable Expenses.

3. Task Order Summary (Reference only)

- a. Original Task Order amount: \$590,662.00
- b. Net change for prior amendments: \$0.00
- c. This amendment amount: \$1,053,788.00
- d. Adjusted Task Order amount: \$1,644,450.00

The foregoing Task Order Summary is for reference only and does not alter the terms of the Task Order, including those set forth in Exhibit C.

Owner and Engineer hereby agree to modify the above-referenced Task Order as set forth in this Amendment. All provisions of the Agreement and Task Order not modified by this or previous Amendments remain in effect. The Effective Date of this Amendment is 4/22/2019.

OWNER:

ENGINEER:

By: _____

By: _____

Title: _____

Title: _____

Date
Signed: _____

Date
Signed: _____

Engineer's Services for Task Order

PART 1—BASIC SERVICES

A1.05 *Construction Phase*

A. As Basic Services, Engineer shall:

1. *General Administration of Construction Contract:* Consult with Owner and act as Owner's representative as provided in the Construction Contract. Engineer shall not be required to furnish or perform services contrary to Engineer's responsibilities as a licensed professional. All of Owner's instructions to Contractor will be issued through Engineer, which shall have authority to act on behalf of Owner in dealings with Contractor to the extent provided in this Agreement and the Construction Contract except as otherwise provided in writing.
2. *Resident Project Representative (RPR):* Provide the services of an RPR at the Site to assist the Engineer and to provide more extensive observation of Contractor's work. Duties, responsibilities, and authority of the RPR are as set forth in Exhibit D. The furnishing of such RPR's services will not limit, extend, or modify Engineer's responsibilities or authority except as expressly set forth in Exhibit D.
3. *Selection of Independent Testing Laboratory:* Assist Owner in the selection of an independent testing laboratory to perform the testing services identified in Exhibit B, Paragraph B2.01.A.
4. *Pre-Construction Conference:* Participate in a pre-construction conference prior to commencement of Work at the Site.
5. *Electronic Transmittal Protocols:* If the Construction Contract Documents do not specify 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, then together with Owner and Contractor jointly develop such protocols for transmittals between and among Owner, Contractor, and Engineer during the Construction Phase and Post-Construction Phase.
6. *Original Documents:* If requested by Owner to do so, maintain and safeguard during the Construction Phase at least one original printed record version of the Construction Contract Documents, including Drawings and Specifications signed and sealed by Engineer and other design professionals in accordance with applicable Laws and Regulations. Throughout the Construction Phase, make such original printed record version of the Construction Contract Documents available to Contractor and Owner for review.
7. *Schedules:* Receive, review, and determine the acceptability of any and all schedules that Contractor is required to submit to Engineer, including the Progress Schedule, Schedule of Submittals, and Schedule of Values.

8. *Baselines and Benchmarks:* As appropriate, establish baselines and benchmarks for locating the Work which in Engineer's judgment are necessary to enable Contractor to proceed.
9. *Construction Surveys and Staking:* 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.
 - a. Construction stakes will be provided for the following: construction limits, demo and removals, subgrade excavation, line and grade for storm sewer and watermain, paving, curb and gutter, driveways, sidewalks, signing, pavement markings, lighting, planters, urns and fences.
 - b. Re-staking due to contractor's destruction of stakes will be billed directly to contractor.
10. *Field Verification of Structures:* Conduct verification surveys of fire hydrants, sanitary and storm sewer manholes, and storm sewer inlets.
11. *Visits to Site and Observation of Construction:* In connection with observations of Contractor's Work while it is in progress:
 - a. Make visits to the Site at intervals appropriate to the various stages of construction, as Engineer deems necessary, to observe as an experienced and qualified design professional the progress of Contractor's executed Work. Such visits and observations by Engineer, and the Resident Project Representative, if any, are not intended to be exhaustive or to extend to every aspect of the Work or to involve detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Agreement, this Task Order, and the Construction Contract Documents, but rather are to be limited to spot checking, selective sampling, and similar methods of general observation of the Work based on Engineer's exercise of professional judgment, as assisted by the Resident Project Representative, if any. Based on information obtained during such visits and observations, Engineer will determine in general if the Work is proceeding in accordance with the Construction Contract Documents, and Engineer shall keep Owner informed of the progress of the Work.
 - b. The purpose of Engineer's visits to the Site, and representation by the Resident Project Representative, if any, at the Site, will be to enable Engineer to better carry out the duties and responsibilities assigned to and undertaken by Engineer during the Construction Phase, and, in addition, by the exercise of Engineer's efforts as an experienced and qualified design professional, to provide for Owner a greater degree of confidence that the completed Work will conform in general to the Construction Contract Documents and that Contractor has implemented and maintained the integrity of the design concept of the completed Project as a functioning whole as indicated in the Construction Contract Documents. Engineer shall not, during such visits or as a result of such observations of the Work, supervise, direct, or have control over the Work, nor shall Engineer have authority over or responsibility for the means, methods, techniques, sequences, or procedures of construction selected or used by any Constructor, for security or safety at the Site, for safety precautions and programs incident to any Constructor's work in progress, for the coordination of the Constructors' work or schedules, nor for any failure of any Constructor to comply with Laws and Regulations

applicable to furnishing and performing of its work. Accordingly, Engineer neither guarantees the performance of any Constructor nor assumes responsibility for any Constructor's failure to furnish or perform the Work, or any portion of the Work, in accordance with the Construction Contract Documents.

12. *Defective Work:* Reject Work if, on the basis of Engineer's observations, Engineer believes that such Work is defective under the terms and standards set forth in the Construction Contract Documents. Provide recommendations to Owner regarding whether Contractor should correct such Work or remove and replace such Work, or whether Owner should consider accepting such Work as provided in the Construction Contract Documents.
13. *Compatibility with Design Concept:* If Engineer has express knowledge that a specific part of the Work that is not defective under the terms and standards set forth in the Construction Contract Documents is nonetheless not compatible with the design concept of the completed Project as a functioning whole, then inform Owner of such incompatibility, and provide recommendations for addressing such Work.
14. *Clarifications and Interpretations:* Accept from Contractor and Owner submittal of all matters in question concerning the requirements of the Construction Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Construction Contract Documents. With reasonable promptness, render a written clarification, interpretation, or decision on the issue submitted, or initiate an amendment or supplement to the Construction Contract Documents.
15. *Field Orders:* Subject to any limitations in the Construction Contract Documents, Engineer may prepare and issue Field Orders requiring minor changes in the Work.
16. *Change Orders and Work Change Directives:* Recommend Change Orders and Work Change Directives to Owner, as appropriate, and prepare Change Orders and Work Change Directives as required.
17. *Differing Site Conditions:* Respond to any notice from Contractor of differing site conditions, including conditions relating to underground facilities such as utilities, and hazardous environmental conditions. Promptly conduct reviews, obtain information, and prepare findings, conclusions, and recommendations for Owner's use, subject to the limitations and responsibilities under the Agreement and the Construction Contract.
18. *Non-reviewable matters:* If a submitted matter in question concerns the Engineer's performance of its duties and obligations, or terms and conditions of the Construction Contract Documents that do not involve (1) the performance or acceptability of the Work under the Construction Contract Documents, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, then Engineer will promptly give written notice to Owner and Contractor that Engineer will not provide a decision or interpretation.
19. *Shop Drawings, Samples, and Other Submittals:* Review and approve or take other appropriate action with respect to Shop Drawings, Samples, and other required Contractor submittals, but only for conformance with the information given in the Construction Contract Documents and compatibility with the design concept of the completed Project as a functioning whole as indicated

by the Construction Contract Documents. Such reviews and approvals or other action will not extend to means, methods, techniques, sequences, or procedures of construction or to safety precautions and programs incident thereto. Engineer shall meet any Contractor's submittal schedule that Engineer has accepted.

20. *Substitutes and "or-equal"*: Evaluate and determine the acceptability of substitute or "or-equal" materials and equipment proposed by Contractor, but subject to the provisions of Paragraph A2.01.B.2 of this Exhibit A.
21. *Inspections and Tests*:
 - a. Perform materials sampling, testing and observations in accordance with Construction Contract Documents that includes:
 - 1) Perform engineering observations and special inspections of excavations for project foundations and execute quality assurance services for evaluation of native soils and engineered fill used in support of project structural elements.
 - 2) Perform quality control services and special inspections associated with construction of project foundations.
 - 3) Perform special inspections and testing of soils placed as fill, backfill and, observation and testing of aggregates and pavements.
 - b. Receive and review all certificates of inspections, tests, and approvals required by Laws and Regulations or the Construction Contract Documents. Engineer's review of such certificates will be for the purpose of determining that the results certified indicate compliance with the Construction Contract Documents and will not constitute an independent evaluation that the content or procedures of such inspections, tests, or approvals comply with the requirements of the Construction Contract Documents. Engineer shall be entitled to rely on the results of such inspections and tests.
 - c. As deemed reasonably necessary, request that Contractor uncover Work that is to be inspected, tested, or approved.
 - d. Pursuant to the terms of the Construction Contract, require additional inspections or testing of the Work, whether or not the Work is fabricated, installed, or completed.
22. *Change Proposals and Claims*: (a) Review and respond to Change Proposals. Review each duly submitted Change Proposal from Contractor and, within 30 days after receipt of the Contractor's supporting data, either deny the Change Proposal in whole, approve it in whole, or deny it in part and approve it in part. Such actions shall be in writing, with a copy provided to Owner and Contractor. If the Change Proposal does not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters, then Engineer will notify the parties that the Engineer will not resolve the Change Proposal. (b) Provide information or data to Owner regarding engineering or technical matters pertaining to Claims.

23. *Applications for Payment:* Based on Engineer's observations as an experienced and qualified design professional and on review of Applications for Payment and accompanying supporting documentation:
- a. Determine the amounts that Engineer recommends Contractor be paid. Recommend reductions in payment (set-offs) based on the provisions for set-offs stated in the Construction Contract. Such recommendations of payment will be in writing and will constitute Engineer's representation to Owner, based on such observations and review, that, to the best of Engineer's knowledge, information and belief, Contractor's Work has progressed to the point indicated, the Work is generally in accordance with the Construction Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Construction Contract Documents, and to any other qualifications stated in the recommendation), and the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work. In the case of unit price work, Engineer's recommendations of payment will include final determinations of quantities and classifications of the Work (subject to any subsequent adjustments allowed by the Construction Contract Documents).
 - b. By recommending payment, Engineer shall not thereby be deemed to have represented that observations made by Engineer to check the quality or quantity of Contractor's Work as it is performed and furnished have been exhaustive, extended to every aspect of Contractor's Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Agreement or this Task Order. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment including final payment will impose on Engineer responsibility to supervise, direct, or control the Work, or for the means, methods, techniques, sequences, or procedures of construction or safety precautions or programs incident thereto, or Contractor's compliance with Laws and Regulations applicable to Contractor's furnishing and performing the Work. It will also not impose responsibility on Engineer to make any examination to ascertain how or for what purposes Contractor has used the money paid to Contractor by Owner; to determine that title to any portion of the Work, including materials or equipment, has passed to Owner free and clear of any liens, claims, security interests, or encumbrances; or that there may not be other matters at issue between Owner and Contractor that might affect the amount that should be paid.
24. *Contractor's Completion Documents:* Receive from Contractor, review, and transmit to Owner maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance required by the Construction Contract Documents, certificates of inspection, tests and approvals, and Shop Drawings, Samples, and other data approved as provided under Paragraph A1.05.A.17. Receive from Contractor, review, and transmit to Owner the annotated record documents which are to be assembled by Contractor in accordance with the Construction Contract Documents to obtain final payment. The extent of Engineer's review of record documents shall be to check that Contractor has submitted all pages.
25. *Substantial Completion:* Promptly after notice from Contractor that Contractor considers the entire Work ready for its intended use, in company with Owner and Contractor, visit the Site to

review the Work and determine the status of completion. Follow the procedures in the Construction Contract regarding the preliminary certificate of Substantial Completion, punch list of items to be completed, Owner's objections, notice to Contractor, and issuance of a final certificate of Substantial Completion. Assist Owner regarding any remaining engineering or technical matters affecting Owner's use or occupancy of the Work following Substantial Completion.

26. *Final Notice of Acceptability of the Work:* Conduct a final visit to the specific Project to determine if the Work is complete and acceptable so that Engineer may recommend, in writing, final payment to Contractor. Accompanying the recommendation for final payment, Engineer shall also provide a notice to Owner and Contractor in the form attached hereto as Exhibit E ("Notice of Acceptability of Work") that the Work is acceptable (subject to the provisions of the Notice and Paragraph A1.05.A.21.b) to the best of Engineer's knowledge, information, and belief, and based on the extent of the services provided by Engineer under the Agreement and the Task Order.
27. *Standards for Certain Construction-Phase Decisions:* Engineer will render decisions regarding the requirements of the Construction Contract Documents, and judge the acceptability of the Work, pursuant to the specific procedures set forth in the Construction Contract for initial interpretations, Change Proposals, and acceptance of the Work. In rendering such decisions and judgments, Engineer will not show partiality to Owner or Contractor, and will not be liable to Owner, Contractor, or others in connection with any proceedings, interpretations, decisions, or judgments conducted or rendered in good faith.

- B. *Duration of Construction Phase:* The Construction Phase will commence with the execution of the first Construction Contract for the specific Project or any part thereof and will terminate upon written recommendation by Engineer for final payment to Contractors. If the specific Project involves more than one prime contract as indicated in Paragraph A1.03.C, then Construction Phase services may be rendered at different times in respect to the separate contracts. Subject to the provisions of Article 3, Engineer shall be entitled to an equitable increase in compensation if Construction Phase services (including Resident Project Representative services, if any) are required after the original date for completion and readiness for final payment of Contractor as set forth in the final Construction Contract under the Task Order.

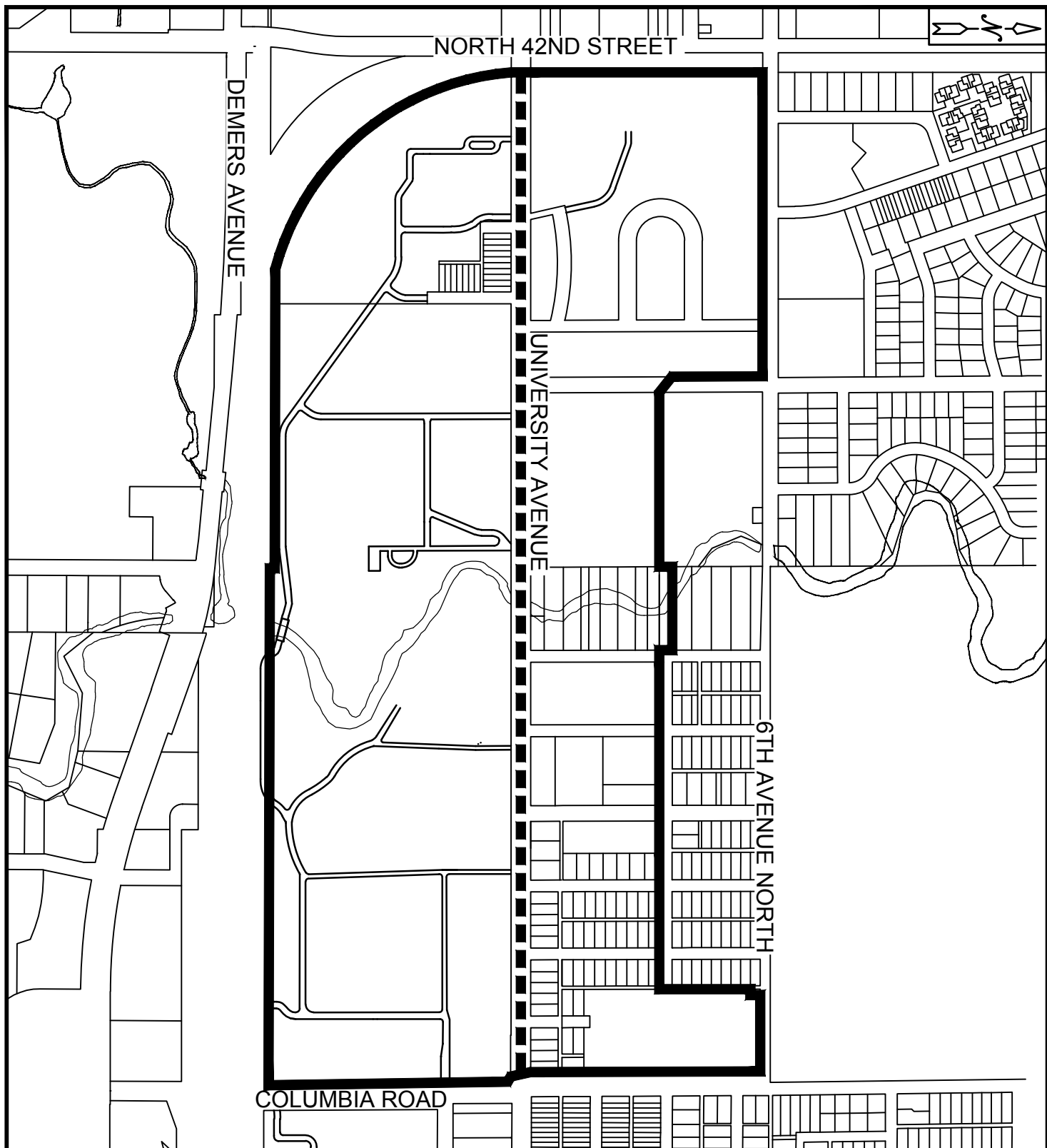
A1.06 *Post-Construction Phase*

- A. Upon written authorization from Owner during the Post-Construction Phase, as Basic Services, Engineer shall:
 1. Together with Owner, visit the Project to observe any apparent defects in the Work, make recommendations as to replacement or correction of defective Work, if any, or the need to repair of any damage to the Site or adjacent areas, and assist Owner in consultations and discussions with Contractor concerning correction of any such defective Work and any needed repairs.
 2. Together with Owner, visit the Project within one month before the end of the Construction Contract's correction period to ascertain whether any portion of the Work or the repair of any damage to the Site or adjacent areas is defective and therefore subject to correction by Contractor.

3. Prepare As-built survey for sewer manholes, catch basins, pipe inverts for sewer and watermain at each structure and appurtenance location, light poles and pull box locations.
 4. Prepare and furnish to Owner, in the format agreed to, Record Drawings showing appropriate record information based on Project annotated record documents received from Contractor and the as-built survey.
 5. Conduct 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.
- B. The Post-Construction Phase services may commence during the Construction Phase and, if not otherwise modified in this Exhibit A, will terminate twelve months after the commencement of the Construction Contract's correction period.

Attachment 1 to Exhibit A
 22-Apr-19
 Project: Unversity 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	Engineer III	Land Surveyor IV	Engineer Technician III	Project Manager III	Project Coordinator III	Project Coordinator II	TOTAL	TOTAL	TOTAL	TOTAL
		Est. Hours	Est. Labor Cost	Est. Expense	Est. Fee	Est. Hours	Est. Labor Cost	Est. Expense	Est. Fee	Est. Hours	Est. Labor Cost	Est. Expense	Est. Fee	Est. Hours	Est. Labor Cost	Est. Expense	Est. Fee	Est. Hours	Est. Labor Cost	Est. Expense
	Contract Billing Rate	\$202	\$178	\$178	\$141	\$120	\$157	\$150	\$178	\$88	\$157	\$146	\$103	\$202	\$120	\$106				
		2019 Rates																		
060	Construction Phase	30	354	110	80	1,450	8	24	140	1,080	480	840	880	90	8	26	5,600	709,284	325,695	\$1,034,979
	Outside Services - KLJ (Traffic Engineer)																0	\$0	\$91,350	\$91,350
	Outside Services - RDG (Landscape Architect)																0	\$0	\$129,993	\$129,993
	Outside Services - NTI (Materials Testing)																0	\$0	\$63,704	\$63,704
070	Post Construction Warranty	0	16	2	0	54	0	0	4	0	0	24	24	8	0	0	132	17,988	821	\$18,809
	Estimated Totals For Services	30	370	112	80	1,504	8	24	144	1,080	480	864	904	98	8	26	5,732	\$727,272	\$326,516	\$1,053,788



**UNIVERSITY AVENUE RECONSTRUCTION (COULEE-COLUMBIA)
& MEDIANS AND STREET LIGHTS (COULEE-42ND ST)**

LEGEND

PROJECT # 8042

DISTRICT # 738

- ASSESSMENT DISTRICT BOUNDARY
- - - -** PROJECT LIMITS
- · - · -** CITY LIMITS