

CONTRACT FOR PROFESSIONAL ENGINEERING SERVICES
SE East Lawn Area Utility Improvements – Phase 1
and
SE Peterson/SE Trilein Storm Sewer Improvements
City of Ankeny, Iowa

THIS AGREEMENT is made and entered into this _____ day of _____, 2017, between the City of Ankeny, Iowa, hereinafter referred to as the “Owner”, and Civil Design Advantage hereinafter referred to as the “Consultant”.

WITNESSETH:

WHEREAS the Owner has decided to proceed with the design and construction of the following projects:

SE East Lawn Area Utility Improvements – Phase 1

Full street reconstruction and utility replacement of approximately 700 lineal feet on SE Sherman Drive from SE East Lawn Drive to SE Peterson Drive and storm sewer improvements and associated pavement replacement on SE Peterson Drive from SE Sherman Drive to approximately 500 linear feet east. The Consultant shall develop a standalone set of construction drawings for this project.

SE Peterson/SE Trilein Storm Sewer Improvements

Storm sewer improvements and limited pavement replacement to create a viable drainage outfall along approximately 1000 lineal feet on SE Peterson Drive and 300 lineal feet on SE Trilein Drive. The Consultant shall develop a standalone set of construction drawings for this project.

Refer to Exhibit B for segments to be designed.

WHEREAS the Owner desires to employ the Consultant to provide supplementary topographic survey and design services in connection with the project; and

WHEREAS the Consultant is willing to perform such survey and engineering work in accordance with the terms hereinafter provided, and represents that it is in compliance with Iowa statutes relating to the registration of Professional Engineers;

NOW THEREFORE;

The parties hereto, for consideration hereinafter set forth, mutually agree as follows;

I. DEFINITIONS

Whenever in this Contract the following terms or pronouns used in their stead occur, they shall have the meaning here given;

Owner – the City of Ankeny, Iowa, or its authorized representative acting as liaison officer for the Owner for the purpose of coordinating and administering the work under the Contract.

Consultant – the firm of Civil Design Advantage, Grimes, Iowa

Iowa DOT – Iowa Department of Transportation

IDNR – Iowa Department of Natural Resources

Corps – the United States Army Corps of Engineers

EPA – the Environmental Protection Agency

EDA – the Economic Development Agency

Project Manager – the principal project manager assigned to the project, and employed by and working directly under the authority of the Consultant.

Project Engineer – the design engineer assigned to the project and employed by the Consultant, working directly under the authority of the Project Manager.

Construction Observer – the construction observer assigned to the project and employed by the Consultant, working directly under the authority of the Project Manager or Project Engineer.

II.

GENERAL

A. The Owner has decided to proceed with the SE East Lawn Area Utility Improvements – Phase 1 and SE Peterson/SE Trilein Storm Sewer Improvements projects. The Consultant shall prepare separate plan sets for each project. The projects are generally east of South Ankeny Boulevard and south of East 1st Street in area of Ankeny with older infrastructure. This contract covers supplemental topographic survey and design services for the storm sewer improvements for the SE Peterson/SE Trilein Storm Sewer Improvements project and full street and utility reconstruction associated with the SE East Lawn Area Utility Improvements – Phase 1 project. This contract does not include any construction related services, but can be added by addendum.

A description of the necessary tasks to accomplish the above goals is itemized in Section III, Scope of Services.

- B. The work under this Contract shall at all times be subject to the general supervision and direction of the Owner, and shall be subject to the approval of the Owner. Design and construction documents shall conform to the Owner's requirements.
- C. Obligations of the Owner to the Consultant: All existing information, including previous construction plans, record drawings, utility information, previous studies, drainage maps, drainage design support, etc. applicable to the project will be made available to the Consultant without cost.
- D. Submittal of documents: During the progress of the project design, various copies of the design plans and other documents prepared by the Consultant will be required by the Owner. Unless specified elsewhere in this Contract, three (3) copies of each plan set or document shall be provided by the Consultant to the Owner at the submittal.
- E. This Contract shall be subject to the Standard Fee Schedule billing rates as established in Exhibit A and hereby made a part of this Contract.

III. SCOPE OF SERVICES

- A. General – The Consultant shall provide Basic Design Services and Additional Design Services (if required) for the supplemental topographic survey and design of the projects in accordance with general engineering principles. The work to be performed under this Contract by the Consultant shall consist of the following Scope of Services. Additional engineering services beyond the Contract Scope of Services shall be authorized in writing by the Owner before the Consultant shall proceed. Additional fees shall be based on the hourly rates by employee classification as established in Exhibit A to this Contract.
- B. Basic Engineering Services

Design Phase Services:

SE East Lawn Area Utility Improvements – Phase 1

Task 1 – Construction Drawing Preparation

The Consultant shall prepare construction drawings for street and utility improvements including approximately 700 lineal feet on SE Sherman Drive and approximately 500 lineal feet on SE Peterson

Drive. Preliminary plan sheet layout shall generally consist of the following:

- Title Sheet (1)
- Legend and Symbol
- Details and Typical Sections (2)
- Tabulations of Project Quantities and General Notes (2)
- Plan & Profile Sheets (6)
- Survey Reference Information (1)
- Traffic Control (2)
- Intersection Details (3)
- Storm Sewer (2)
- Sanitary Sewer and Water Main (6)
- Erosion Control (1)
- Sidewalk (2)
- Cross Sections (10)

The Consultant shall prepare an “initial” Storm Water Pollution Prevention Plan (SWPPP) for the project using the Owner’s SWPPP template. The Owner shall submit the Notice of Intent and be responsible for implementation. The Consultant shall also prepare and submit the Iowa DNR waste water and water supply construction permit applications on behalf of the Owner.

The Consultant shall meet with the City staff a maximum of three times for design review meetings during Construction Drawing Preparation.

Task 2 – Estimated Construction Costs

The Consultant shall prepare a statement of the total estimated construction costs for the project based on the designs developed. Estimated construction costs shall be established for the preliminary and final design phases. The estimates shall be based on engineering judgment and does not represent a guarantee of the actual construction costs.

Task 3 – Utility Coordination

The Consultant shall coordinate with existing franchise utilities for required utility relocations.

Task 4 – Neighborhood Meeting

Prior to finalizing construction plans, the consultant shall conduct one-separate Neighborhood meeting for SE East Lawn Area Utility Improvements – Phase 1. The Owner will provide meeting invitations

to impacted residents and facilities for the neighborhood meeting. The Consultant will provide a strip map/display for use at the meeting.

Task 5 – Specifications/Advertisement/Plan Distribution

The Consultant shall prepare a project manual that consists of the City of Ankeny front end contract documents modified to support the street and utility improvements project. The SUDAS technical specifications and Ankeny supplemental specifications shall be referenced for construction. The Consultant shall also advertise for the construction letting, upload final documents onto Quest CDN, and handle all plan distribution to potential bidders.

Task 6 – Construction Letting

The Consultant shall attend one public letting for the project. Once bids are open, the Consultant will confirm the as-bid prices, prepare a bid tabulation and recommend award of contract to the Owner.

SE Peterson/SE Trilein Storm Sewer Improvements Project

Task 7 – Final Storm Water Management Plan

The Consultant has previously prepared a Preliminary Storm Water Management Plan with options for downstream storm sewer modifications due to lack of capacity. The Consultant will need to finalize the Storm Water Management Plan based on the option the Owner has selected which includes a parallel storm sewer in certain locations and replacing existing storm sewer with larger pipe in other locations.

Task 8 – Supplemental Topographic Survey

The Consultant has previously acquired survey data in the area and will utilize this information where appropriate. The Consultant may need to mobilize to the site and gather supplemental topographic survey. Field information shall be acquired including existing ground shots, ridge lines, trees greater than 12” in diameter and other data needed for final design.

Task 9 – Construction Drawing Preparation

The Consultant shall prepare construction drawings for storm sewer improvements and limited pavement replacement to create a viable drainage outfall along approximately 1000 lineal feet on SE Peterson Drive and 300 lineal feet on SE Trilein Drive. Preliminary plan sheet layout shall generally consist of the following:

Title Sheet (1)
Legend and Symbol
Details and Typical Sections (2)
Tabulations of Project Quantities and General Notes (1)
Plan & Profile Sheets (6)
Survey Reference Information (1)
Traffic Control (2)
Intersection Details (1)
Storm Sewer (1)
Erosion Control (1)
Sidewalk (1)
Cross Sections (6)

The Consultant shall prepare an “initial” Storm Water Pollution Prevention Plan (SWPPP) for the project using the Owner’s SWPPP template. The Owner shall submit the Notice of Intent and be responsible for implementation.

The Consultant shall meet with the City staff a maximum of three times for design review meetings during Construction Drawing Preparation.

Task 10 – Estimated Construction Costs

The Consultant shall prepare a statement of the total estimated construction costs for the project based on the designs developed. Estimated construction costs shall be established for the preliminary and final design phases. The estimates shall be based on engineering judgment and does not represent a guarantee of the actual construction costs.

Task 11 – Utility Coordination

The Consultant shall coordinate with existing franchise utilities for required utility relocations.

Task 12 – Neighborhood Meeting

Prior to finalizing construction plans, the consultant shall conduct one-separate Neighborhood meeting for SE Peterson / SE Trilein Storm Sewer Improvements project. The Owner will provide meeting invitations to impacted residents and facilities for the neighborhood meeting. The Consultant will provide a strip map/display for use at the meeting.

Task 13 – Specifications/Advertisement/Plan Distribution

The Consultant shall prepare a project manual that consists of the City of Ankeny front end contract documents modified to support the storm sewer improvement project. The SUDAS technical specifications and Ankeny supplemental specifications shall be referenced for construction. The Consultant shall also advertise for the construction letting, upload final documents onto Quest CDN, and handle all plan distribution to potential bidders.

Task 14 – Construction Letting

The Consultant shall attend one public letting for the project. Once bids are open, the Consultant will confirm the as-bid prices, prepare a bid tabulation and recommend award of contract to the Owner.

C. Additional Services

Services other than those defined within Basic Engineering Services shall be considered “additional services”, and compensated on an hourly basis at rates defined in Exhibit A or as negotiated. Items considered “additional services” may include, but not be limited to items shown in Exhibit C.

IV. TIME OF BEGINNING AND COMPLETION

Work under this contract to be performed by the Consultant for the Owner shall commence immediately upon execution of this Agreement by both the Consultant and the Owner. This fully executed Agreement will authorize the Scope of Services in Section III. The intent of the Owner and the Consultant is to complete the final design of SE Peterson Drive and SE Trilein Drive Storm Sewer Improvements by November 2017, bid project in December 2017 and construct the project during the Spring of 2018. The intent of the Owner and the Consultant is to complete the final design of SE East Lawn Area Utility Improvements – Phase 1 by November 2017, bid project in December 2017 and construct the project during the Spring, Summer, and Fall of 2018.

SE East Lawn Area Utility Improvements – Phase 1 And SE Peterson/SE Trilein Storm Sewer Improvements	
Proposed Schedule	
Preliminary Plans (50%)	August 14, 2017
Neighborhood Meetings	early September 2017
Check Plans (95%)	October 16, 2017
Final Plans (100%)	November 20, 2017
Letting Date	December 12, 2017
Award Date	December 18, 2018

V. FEES AND PAYMENTS

A. Fees

The Owner shall pay the Consultant for engineering services rendered under this Contract an amount based on the Consultant's labor costs and direct labor cost burden. The Consultant-incurred reimbursable expenses will be passed through directly to the Owner. A definition of each of the above follows:

1. Labor costs – salary and wages paid to all personnel engaged directly on the project including, but not limited to, engineers, project managers, planners, surveyors, designers, CADD technicians, estimators, observers, other technical personnel, typists and administrative staff.
2. Labor cost burden – customary and statutory benefits including, but not limited to, social security and Medicare contributions, unemployment taxes, excise and payroll taxes, workers compensation, health, pension and retirement benefits, sick leave, vacation and holiday pay applicable hereto.
3. Reimbursable Expenses – these costs are in addition to labor cost and labor cost burden, and are those expenses necessary to fulfill the terms of this Contract. They may include transportation and subsistence, reproduction, postage, photography and printing, computer services and miscellaneous costs. The Consultant shall submit with each monthly invoice a detailed listing of reimbursable expenses incurred.

The total engineering fee under this Contract shall be based on an hourly rate. The Owner will be furnished copies of Consultant's subcontracts. All reimbursable expenses shall be billed as "pass-through" and are part of the maximum not-to-exceed amount (unless specifically noted).

The sum to be paid to the Consultant for tasks in Section III, Scope of Services of this Contract, shall be a maximum not-to-exceed fee of \$ 109,316 (one hundred nine thousand, three hundred sixteen dollars). Refer to Exhibit D for Staff hour/Fee Estimate.

B. Payments

Payments for the Consultant's engineering services shall be made monthly upon presentation of the Consultant's statement of services rendered on Owner's form.

Upon receipt of the invoice and review/approval by the Owner, the Owner shall promptly pay the Consultant for the engineering services rendered as indicated on the invoice. Invoices are due 30 days from date of invoice.

VI. INSURANCE

The Consultant shall maintain insurance to protect the Consultant from claims under Workmen's Compensation Acts; claims due to personal injury or death of any employee or any other person; claims due to injury or destruction of property; and claims arising out of errors, omissions, or negligent acts for which the Consultant is legally liable. The minimum amounts and extent of such insurance is as follows:

1.	Professional Liability	\$ 2,000,000
2.	Vehicle Coverage	\$ 1,000,000 liability \$ 5,000 medical \$ 1,000,000 uninsured
	Property Damage	\$ 1,000,000 each accident
3.	Workmen's Compensation	\$ 100,000 each accident
4.	General Liability	\$ 1,000,000 each occurrence \$ 2,000,000 aggregate

VII. MISCELLANEOUS PROVISIONS

A. Use of Documents

All documents, including drawings, specifications, and electronic media prepared or furnished by the Consultant (and the Consultant's subsidiaries, independent professional associates, and sub consultants) pursuant to this Contract shall be the property of the Owner. Such documents are intended as instruments of service, as such, these documents are not intended or represented to be suitable for use or reuse by the Owner or others to complete the project, or for extensions of the project, or on any other project without written consent of the Consultant. Any use or reuse by the Owner will be at the Owner's sole risk, and without liability or legal

exposure to the Consultant or to the Consultant's subsidiaries, independent professional associates, and sub consultants. The Owner agrees to defend, indemnify, and hold harmless the Consultant from any and all costs, expenses (including reasonable litigation costs), fees, losses, claims, demands, liabilities, suits, actions, and damages whatsoever arising out of such reuse or alteration by the Owner or liaisons acting through the Owner. Upon completion or other termination of this Contract, the Consultant shall deliver to the Owner machine reproducible copies of any and all materials pertaining to this Contract. For calculations, etc. on letter or legal size sheets, the copies shall be of a type possible to reproduce on a Xerox-type copier. For maps, drawings, sketches, plans, etc. not on such letter or legal size sheets, a photographically reproduced print shall be provided as the machine reproducible copy mentioned above. No sheets shall exceed 11"x 17". The Consultant's reuse of designs under this Contract is prohibited unless authorized by the Owner.

Survey grade X, Y, Z data and feature type identifier for all manholes and cleanouts provided in tabular text file format and e-mailed to the Owner.

Prepare and submit one (1) half-size (11"x17") paper set of the post-construction record drawings to be delivered to the Owner. The set is to be double-sided and is to be either spiral or screw bound.

Prepare and submit one (1) half-size (11"x17") PDF set of the post-construction record drawings to be e-mailed to the Owner. To ensure proper scale, all sheets contained in the PDF set are to be saved directly from the CAD drawing and not scanned in.

B. Changes in the Scope of Work

When there is a substantial change in the scope, complexity, or character of the work performed, or if the Owner requests the Consultant to alter the completion dates established, the specified fee as listed under Section V of this Contract will be reappraised. If the Consultant believes that he/she has been asked to perform work beyond the Scope of Services covered by this Contract or by a supplemental agreement hereto, he/she shall promptly notify the Owner, in writing, of his/her intention to make claim for such extra compensation. The Consultant shall not proceed with any such work until a supplemental agreement is fully executed, or written intent of said execution is provided.

C. Delays

The Consultant will notify the Owner in writing of any unusual delay, including the reason therefore, to his/her normal progress in completing the work under this Contract, either actual or prospective, and request an appropriate extension of time. Authorization for the time extension will be

at the discretion of the Owner. If completion of the Consultant's work is delayed by events beyond the control of the Consultant, the established engineering fees and schedules of completion will be subject to review upon request by the Consultant to the Owner, accompanied by adequate substantiating data to justify a change.

D. Suspension and Termination of Contract

1. In the event of the death of any member or partner of the Consultant's firm, the surviving members shall complete the work, unless otherwise mutually agreed upon by the Owner and the survivors.
2. The right is reserved by the Owner to terminate this Contract at any time, upon not less than fourteen (14) days written notice to the Consultant. The Consultant may also terminate this Contract on fourteen (14) days written notice.
3. In the event the Contract is terminated by the Owner without fault on the part of the Consultant, the Consultant shall be paid for work performed and delivered up to the date established in the termination notice.
4. The right is reserved by the Owner to suspend this Contract at any time. Such suspension may be affected by the Owner by giving the Consultant written notice, and will be effective as of the date established in the suspension notice. Payment of the Consultant's services will be made by the Owner for services performed to the date established in the suspension notice in accordance with Paragraph 3 above.
5. Should the Owner wish to reinstate the work after notice of suspension, such reinstatement may be accomplished by thirty (30) days written notice within a period of one (1) year after such suspension, unless this period be extended by written consent of the Consultant.

E. Disputes

All claims, disputes, and other matters in question between the parties of this Contract arising out of or relating to this Contract or the breach thereof shall be initiated in the District Court for Polk County, Iowa, if the parties are unable to resolve such claims, disputes, or other matters in question by negotiation.

F. Responsibility for Claims and Liability

The Consultant shall indemnify and hold harmless the Owner from any and all claims and liabilities due solely to any negligent acts, errors, or omissions of the Consultant, its members, employees, or agents.

G. General Compliance With Laws

The Consultant shall comply with federal, state, and local laws and ordinances applicable to the work as defined in Section III.

H. Subletting, Assignment, or Transfer

Subletting, assignment, or transfer of all or part of the interest of the Consultant is prohibited unless written consent is obtained from the Owner.

I. Forbidding the Use of Outside Agents

The Consultant warrants that he/she has not employed or retained any company or person, other than a bona fide employee working for the Consultant, to solicit or secure this Contract, and that he/she has not paid or agreed to pay any company or person, other than a bona fide employee, any fee, commission, percentage, brokerage fee, gift, or any other consideration contingent upon or resulting from the award or making of this Contract. For breach or violation of this warranty, the Owner shall have the right to annul this Contract without liability, or in its discretion, to deduct from the Contract price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift, or contingent fee.

J. Employment of the Owner's Personnel

The Consultant shall not engage the services of any person or persons then in the employ of the Owner for work covered by this Contract without the written consent of the employers of such persons.

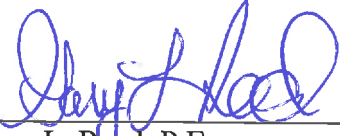
This Contract expresses the entire agreement between the parties, and no representations, promises, or warranties have been made by either of the parties that are not fully expressed herein.

IN WITNESS WHEREOF, the parties hereto have caused this Contract to be executed by their proper officials thereunto duly authorized as of the dates below indicated:

OWNER
CITY OF ANKENY, IOWA

CONSULTANT
CIVIL DESIGN ADVANTAGE

Mayor



Gary L. Reed, P.E.
President

ATTEST:

EXHIBIT 'A'

Standard Fee Schedule 2016-2017 Civil Design Advantage, LLC

<u>Classification</u>	<u>Billing Rate</u>	<u>Unit</u>
Principal / Senior Engineer	\$162 /	hour
Principal / Senior Land Surveyor	\$162 /	hour
Senior Engineer	\$152 /	hour
Engineer 8	\$146 /	hour
Engineer 7	\$136 /	hour
Engineer 6	\$125 /	hour
Engineer 5	\$116 /	hour
Engineer 4	\$106 /	hour
Engineer 3	\$96 /	hour
Engineer 2	\$86 /	hour
Engineer 1	\$77 /	hour
Senior Technician	\$118 /	hour
Technician 8	\$108 /	hour
Technician 7	\$103 /	hour
Technician 6	\$93 /	hour
Technician 5	\$86 /	hour
Technician 4	\$76 /	hour
Technician 3	\$67 /	hour
Technician 2	\$60 /	hour
Technician 1	\$49 /	hour
Project Manager 8	\$138 /	hour
Project Manager 7	\$129 /	hour
Project Manager 6	\$124 /	hour
Project Manager 5	\$119 /	hour
Project Manager 4	\$110 /	hour
Administrative 3	\$72 /	hour
Administrative 2	\$54 /	hour
Administrative 1	\$42 /	hour
Mileage	Current IRS Rate /	mile
Plots (Black & White)	\$1.35 /	sheet
Plots (Color)	\$30 /	sheet
Mylar Plots	\$15 /	sheet
Copies (Black & White)	\$0.10 /	page
Copies (Color)	\$0.75 /	page

Exhibit B

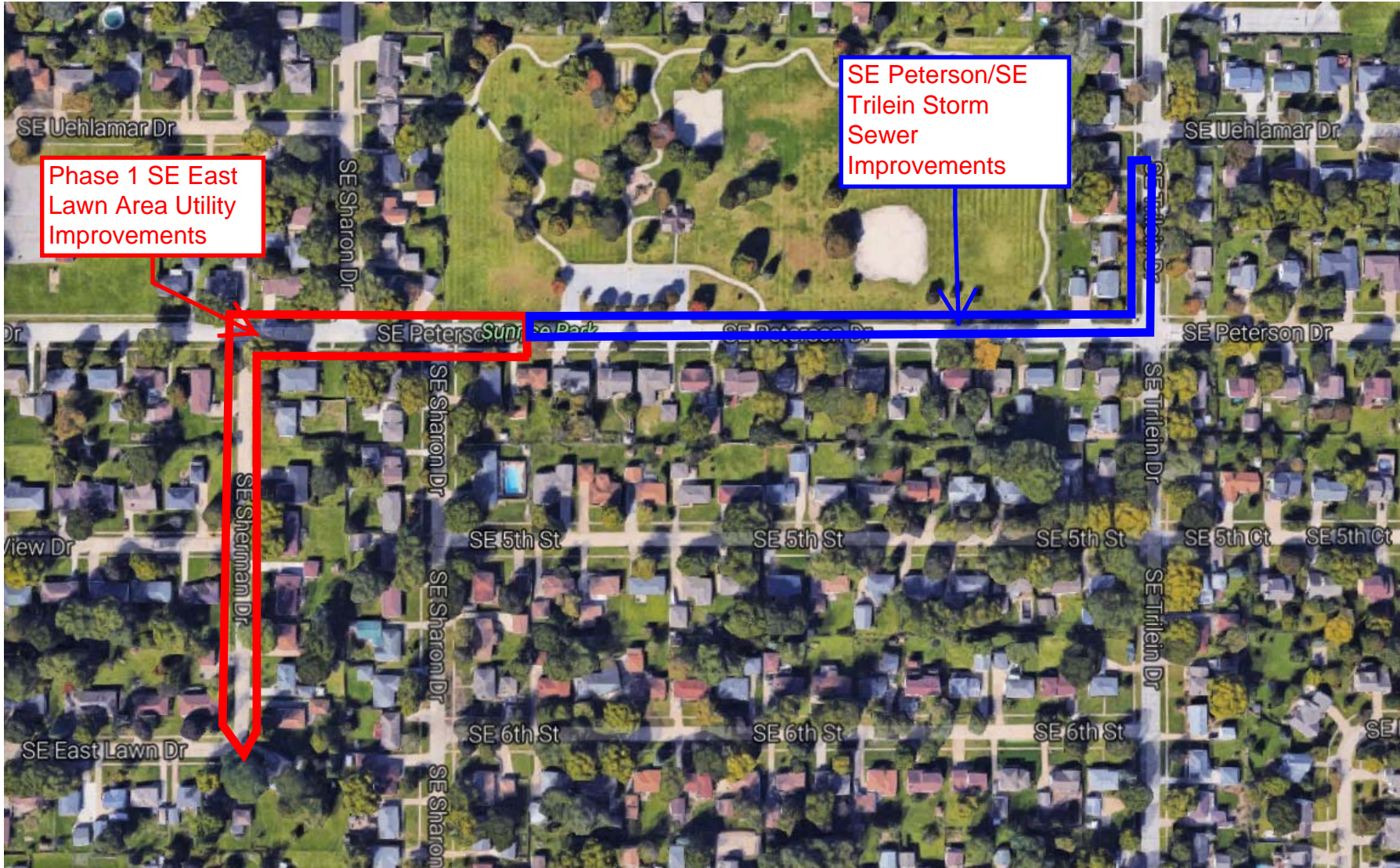


Exhibit “C”

Additional Services

The following is a list of services not included in the current scope of services or compensation. This list is provided to further define the agreement scope. The list includes, but is not limited to:

- Phase 1 Environmental Site Assessment Services
- Additional Topographic or Boundary Survey other than specified
- Boundary Retracement of existing lots to set missing monuments
- Wetland Services
- Monitoring/Revisions to Storm Water Pollution Prevention Plan (SWPPP)
- Submittal/Permitting Fees
- Subdivision Platting
- Site Plan Preparation
- Traffic Studies
- Structural Engineering
- Technical Specification Preparation (Refer to SUDAS)
- Franchise Utility Design
- Color Renderings
- Easement Document Preparation
- Preconstruction Meetings
- Construction Administration/Observation/Services
- Construction Staking
- Record Drawings

Exhibit "D"

SE East Lawn Area Utility Improvements - Phase 1
SE Peterson/SE Trilein Storm Sewer Improvements

Estimate of Hours by Task/Employee Classification

	Principal	Project Manager	Project Engineer	Design Technician	Quality Control	Construction Observer	Survey Field Crew	Clerical	Subconsultant Fee	Total Fee
<u>Design Phase Services</u>										
<u>SE East Lawn Area Utility Improvements - Phase 1</u>										
Task 1 - Construction Plans Preparation	8	108	166	160	40					\$51,440
Task 2 - Estimated Construction Costs		16	24							\$4,480
Task 3 - Utility Coordination		16	24							\$4,480
Task 4 - Neighborhood Meeting		4	4							\$928
Task 5 - Specifications/Advertisement/Plan Distribution		16	16					24	\$500	\$5,508
Task 6 - Construction Letting		4	2					2		\$844
<u>SE Peterson/SE Trilein Storm Sewer Improvements</u>										
Task 7 - Finalize Storm Water Management Plan		28	28							\$6,496
Task 8 - Supplemental Topographic Survey		4		4			24			\$4,676
Task 9 - Construction Plans Preparation	4	28	66	64	16					\$18,600
Task 10 - Estimated Construction Costs		8	16							\$2,624
Task 11 - Utility Coordination		8	16							\$2,624
Task 12 - Neighborhood Meeting		4	4							\$928
Task 13 - Specifications/Advertisement/Plan Distribution		8	8					24	\$500	\$3,652
Task 14 - Construction Letting		4	4					2		\$1,036
						SE East Lawn Area Utility Impr. - Phase 1 Subtotal				\$67,680
						SE Peterson/SE Trilein Storm Sewer Impr. Subtotal				\$40,636
								Design Phase Expenses		\$1,000
								Design Phase Total		\$109,316