

Proposal to Furnish Professional Engineering Services Downtown Streetscape – **DRAFT** Amendment #2

City of Naperville
October 7, 2021

Civiltech Engineering, Inc. (Civiltech) understands that the City of Naperville (City) has requested that Civiltech prepare a proposal to provide Phase II design engineering services for streetscape improvements on the north side of Jefferson Avenue, from Webster Street to Main Street.

The following project understanding and supplemental scope of services is based upon coordination with City staff.

I. Project Understanding and Approach

The City of Naperville and Civiltech discussed the desire for additional streetscape design services as part of the Downtown Streetscape improvements. The Phase II design of the original Downtown Streetscape project limits was completed between June 2019 and March 2020. Bids were opened in April 2020, but construction notice to proceed was delayed due to the potential impacts of the COVID-19 pandemic. Due to other planned construction in the downtown Naperville area, it is now anticipated the streetscape improvements will be built in 2023. During this delay, the City of Naperville has considered extending the project limits to include similar streetscape and pavement reconstruction improvements on the north half of Jefferson Avenue between Webster Street and Main Street, previously excluded from the project limits.

During the original project design, Civiltech evaluated the constructability of building the north half of Jefferson Avenue improvements following completion of the original streetscape project, matching the existing roadway centerline elevation. Civiltech concluded that splitting the reconstruction at the centerline would be feasible; though additional detailed design would need to be provided. By adding the reconstruction of the north half of Jefferson Avenue into the same construction package, additional design flexibility is gained to provide more optimal pavement slopes by changing the existing centerline elevation. Additional flexibility is also available for the proposed construction staging and water main rehabilitation on Jefferson Avenue.

The City has advised that the Jefferson Avenue water main should continue to be rehabilitated via cured-in-place lining due to limited space in corridor and no current need for upsizing the existing main.

The City has also stated alternative maintenance of traffic should be considered with these supplemental services.

Regarding streetscape improvements, the City stated angled parking on the north side of Jefferson Avenue should be maintained, though the westernmost 60 feet approaching Webster Street should be bumped out to incorporate streetscape plantings and furniture.

No additional topographic survey is anticipated, as the project limits fall within the original topographic survey provided by the City for the original project limits.

II. Anticipated Scope of Services

The following scope of services is based on the above project understanding.

Deliverables/Milestones for this project will include the following:

- Revised streetscape design concept plan and section view exhibits including:
 - Colored, dimensioned pavement surfaces
 - Locations of proposed landscaping, planters, light poles, and street furniture
 - Quantification of new trees, parking space modifications, planter areas
- Revised Traffic Control Plan alternatives
- Public Meeting poster exhibits
- Revised Pre-final (90%) Plans, Specs and Estimate
- Revised Final (100%) Plans, Specs and Estimate

Item 1 - Data Collection

No additional data collection is anticipated.

Item 2 – Project Coordination

- A. City coordination/kick-off meeting
- B. Project Setup
- C. Monthly invoicing and preparation of status reports
- D. In-house coordination meetings and scheduling
- E. QC/QA review of technical deliverables prior to submission

Item 3 – Preliminary Design

- A. Concept streetscape design and exhibit preparation for streetscape improvements on the north side of Jefferson Avenue from Webster to Main.
- B. Submit concept plan and section view exhibits to City for review.
- C. Revise concept plan and section view exhibits and provide disposition of City comments.

Item 4 – Field Survey and Mapping

No additional field survey is anticipated.

Item 5 – Utility Coordination

- A. Submit new JULIE Design Stage Ticket for original and extended project limits.
- B. Refresh mapping of existing underground utilities on base sheets based on public and private utility atlases.
- C. Send revised prefinal plans to utility companies for review and conflict identification and resolution.
- D. Discuss additional utility modifications with City's Department of utilities. Storm sewer and electric/lighting plan modifications are anticipated with the extended project limits. It is anticipated no significant modifications are needed for water.

Item 6 – Traffic Control Plan Alternatives

- A. Create up to two additional Traffic Control Plan alternatives (including construction phasing, traffic staging and detour routing).
- B. Submit alternative Traffic Control Plans to City for review and selection of preferred alternative.
- C. Refine preferred Traffic Control Plan alternative based on City feedback to be incorporated into MOT Plans.

Item 7 – Construction Document Preparation

- A. Modify the final as-bid plans for CIP CS-014 to incorporate streetscape improvements and roadway pavement reconstruction along the north side of Jefferson Avenue between Webster Street and Main Street. The revised plans will be submitted to the City as a revised pre-final (90%) submittal for review and comment.
- B. Meet with the City to discuss comments on the revised pre-final plans.
- C. Revise plans in accordance with pre-final review and provide a disposition of comments.
- D. Submit final (100%) plans and specifications for City approval.

Item 9 – Summary of Quantities and Estimate of Cost

- A. After completion of pre-final (90%) plans, update the summary of quantities and engineer's estimate of cost.

- B. After completion of final (100%) plans, update the summary of quantities and engineer's estimate of cost.

Item 10 – Bidding Assistance

- A. Answer technical questions during the bidding process. It is assumed due to the extensive delay, the project would be re-bid.

Item 11 – Construction Coordination

- A. Participate in pre-construction meeting.
- B. Review and approve material submittals.
- C. Respond to requests for information related to the design.
- D. Issue interpretations and clarifications of the contract documents.
- E. On-site construction roadway and streetscape inspections/field coordination meetings (2).
- F. Substantial completion inspection and punchlist generation for roadway and streetscape.

**Cost Estimate of
Consultant Services
(COST PLUS FIXED FEE)**

Firm: Civiltech Engineering, Inc.
Route: Webster, Jefferson, Main, Jackson
Section: T38N R09E S13 1/4SE
Municipality: City of Naperville
Job: Downtown Streetscape - Jefferson N

Date: 10/07/21
Complexity Factor: 0
Overhead and fringe rate: 124.8800
Profit: 0.145 *[(1+CF)DL + 1.4(DL)]

Item	Hours	Average Hourly Rate	Total Direct Labor	Overhead and fringes	Direct Costs	Fixed Fee	Services by others	Total	% of Grand Total
1 Data Collection	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	0.00%
2 Project Coordination	48.0	\$60.48	\$2,903.04	\$3,625.32	\$67.20	\$1,010.26		\$7,605.81	9.34%
3 Preliminary Design	186.0	\$38.10	\$7,086.80	\$8,850.00	\$50.00	\$2,466.21		\$18,453.00	22.66%
4 Field Survey and Mapping	0.0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	0.00%
5 Utility Coordination	50.0	\$46.14	\$2,307.12	\$2,881.13	\$134.40	\$802.88		\$6,125.53	7.52%
6 Traffic Control Plan Alternatives	70.0	\$41.67	\$2,917.24	\$3,643.05	\$0.00	\$1,015.20		\$7,575.49	9.30%
7 Construction Document Preparation	250.0	\$38.52	\$9,629.28	\$12,025.04	\$270.00	\$3,350.99		\$25,275.31	31.04%
8 Summary of Quantities and Estimate of Cost	50.0	\$43.75	\$2,187.36	\$2,731.58	\$180.00	\$761.20		\$5,860.14	7.20%
9 Bidding Assistance	16.0	\$54.51	\$872.08	\$1,089.05	\$0.00	\$303.48		\$2,264.62	2.78%
10 Construction Coordination	56.0	\$56.44	\$3,160.40	\$3,946.71	\$69.60	\$1,099.82		\$8,276.53	10.16%
Total	726.0	\$42.79	\$31,063.32	\$38,791.87	\$771.20	\$10,810.04	\$0.00	\$81,436.43	100.00%

*You will be paid up to, not to exceed, the Total amount listed above for each line item based upon actual hours of work and associated direct costs, as approved by the City. In the event that you exceed, or anticipate exceeding, the Total in any one line item, please contact your Project Manager to inquire if authorization may be obtained to shift costs from another, underutilized, line item.

AVERAGE HOURLY RATES

Firm: Civiltech Engineering, Inc.
Route: Webster, Jefferson, Main, Jackson
Section: T38N R09E S13 1/4SE
Municipality: City of Naperville
Job: Downtown Streetscape - Jefferson N

DATE: 10/7/2021

SHEET 1 OF 3

PAYROLL CLASSIFICATION	HOURLY RATE	Data Collection			Project Coordination			Preliminary Design			Field Survey and Mapping		
		HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE
PRINCIPAL	\$95.00				8	16.7%	\$15.83	2	1.1%	\$1.02			
PROJECT MANAGER	\$59.01				24	50.0%	\$29.51	16	8.6%	\$5.08			
ENGINEER IV	\$40.85				8	16.7%	\$6.81	16	8.6%	\$3.51			
ENGINEER II	\$32.46							24	12.9%	\$4.19			
LANDSCAPE ARCHITECT	\$50.00				8	16.7%	\$8.33	48	25.8%	\$12.90			
LANDSCAPE DESIGNER	\$26.50							80	43.0%	\$11.40			
TOTALS		0	0.0%	\$0.00	48	100.0%	\$60.48	186	100.0%	\$38.10	0	0.0%	\$0.00

AVERAGE HOURLY RATES

Firm: Civiltech Engineering, Inc.
Route: Webster, Jefferson, Main, Jackson
Section: T38N R09E S13 1/4SE
Municipality: City of Naperville
Job: Downtown Streetscape - Jefferson N

DATE: 10/7/2021

SHEET 2 OF 3

PAYROLL CLASSIFICATION	HOURLY RATE	Utility Coordination			Traffic Control Plan Alternatives			Construction Document Preparation		
		HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE
PRINCIPAL	\$95.00	2	4.0%	\$3.80	2	2.9%	\$2.71	4	1.6%	\$1.52
PROJECT MANAGER	\$59.01	16	32.0%	\$18.88	12	17.1%	\$10.12	20	8.0%	\$4.72
ENGINEER IV	\$40.85	16	32.0%	\$13.07	24	34.3%	\$14.01	56	22.4%	\$9.15
ENGINEER II	\$32.46	16	32.0%	\$10.39	32	45.7%	\$14.84	88	35.2%	\$11.43
LANDSCAPE ARCHITECT	\$50.00							32	12.8%	\$6.40
LANDSCAPE DESIGNER	\$26.50							50	20.0%	\$5.30
TOTALS		50	100.0%	\$46.14	70	100.0%	\$41.67	250	100.0%	\$38.52

AVERAGE HOURLY RATES

Firm: Civiltech Engineering, Inc.
Route: Webster, Jefferson, Main, Jackson
Section: T38N R09E S13 1/4SE
Municipality: City of Naperville
Job: Downtown Streetscape - Jefferson N

DATE: 10/7/2021

SHEET 3 OF 3

PAYROLL CLASSIFICATION	HOURLY RATE	Summary of Quantities and Estimate of Cost			Bidding Assistance			Construction Coordination					
		HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE
PRINCIPAL	\$95.00	2	4.0%	\$3.80									
PROJECT MANAGER	\$59.01	8	16.0%	\$9.44	8	50.0%	\$29.51	40	71.4%	\$42.15			
ENGINEER IV	\$40.85	16	32.0%	\$13.07									
ENGINEER II	\$32.46	8	16.0%	\$5.19									
LANDSCAPE ARCHITECT	\$50.00	8	16.0%	\$8.00	8	50.0%	\$25.00	16	28.6%	\$14.29			
LANDSCAPE DESIGNER	\$26.50	8	16.0%	\$4.24									
TOTALS		50	100.0%	\$43.75	16	100.0%	\$54.51	56	100.0%	\$56.44	0	0.0%	\$0.00

DIRECT COSTS

Firm: Civiltech Engineering, Inc.
Route: Webster, Jefferson, Main, Jackson
Section: T38N R09E S13 1/4SE
Municipality: City of Naperville
Job: Downtown Streetscape - Jefferson N

DATE: 10/7/2021

SHEET 1 OF 2

PAYROLL CLASSIFICATION	TRAVEL				TRAVEL (ALTERNATE METHOD)			SURVEY SUPPLIES COSTS	IN-HOUSE PRINTING BLUEPRINTS			
	# TRIPS	# MILES/ TRIP	MILEAGE RATE	COSTS	# DAYS	MILEAGE RATE PER DAY	COSTS		# SETS	PRINTS PER SET	RATE	COSTS
DATA COLLECTION				\$0.00			\$0.00					\$0.00
PROJECT COORDINATION	2.00	60.00	\$0.56	\$67.20			\$0.00					\$0.00
PRELIMINARY DESIGN				\$0.00			\$0.00		10.00	10.00	\$0.50	\$50.00
FIELD SURVEY AND MAPPING				\$0.00			\$0.00					\$0.00
UTILITY COORDINATION	4.00	60.00	\$0.56	\$134.40			\$0.00					\$0.00
TRAFFIC CONTROL PLAN ALTERNATIVES				\$0.00			\$0.00					\$0.00
#REF!	3.00	60.00	\$0.56	\$100.80			\$0.00		2.00	10.00	\$2.00	\$40.00
CONSTRUCTION DOCUMENT PREPARATION				\$0.00			\$0.00		6.00	50.00	\$0.50	\$150.00
SUMMARY OF QUANTITIES AND ESTIMATE OF COST				\$0.00			\$0.00					\$0.00
BIDDING ASSISTANCE				\$0.00			\$0.00					\$0.00
CONSTRUCTION COORDINATION	2.00	60.00	\$0.58	\$69.60			\$0.00					\$0.00
				\$0.00			\$0.00					\$0.00
				\$0.00			\$0.00					\$0.00
				\$0.00			\$0.00					\$0.00
				\$0.00			\$0.00					\$0.00
				\$0.00			\$0.00					\$0.00
				\$0.00			\$0.00					\$0.00
TOTALS				\$372.00			\$0.00	\$0.00				\$240.00

DIRECT COSTS

Firm: Civiltech Engineering, Inc.
Route: Webster, Jefferson, Main, Jackson
Section: T38N R09E S13 1/4SE
Municipality: City of Naperville
Job: Downtown Streetscape - Jefferson N

DATE: 10/7/2021

SHEET 2 OF 2

PAYROLL CLASSIFICATION	IN-HOUSE PRINTING REPORTS				OUTSIDE DIRECT COSTS SHIPPING				OUTSIDE DIRECT COSTS REPORTS			
	# SETS	PRINTS PER SET	RATE	COSTS	# SETS		RATE	COSTS	# SETS	PRINTS PER SET	RATE	COSTS
DATA COLLECTION				\$0.00				\$0.00				\$0.00
PROJECT COORDINATION				\$0.00				\$0.00				\$0.00
PRELIMINARY DESIGN				\$0.00				\$0.00				\$0.00
FIELD SURVEY AND MAPPING				\$0.00				\$0.00				\$0.00
UTILITY COORDINATION				\$0.00				\$0.00				\$0.00
TRAFFIC CONTROL PLAN ALTERNATIVES				\$0.00				\$0.00				\$0.00
#REF!				\$0.00				\$0.00				\$0.00
CONSTRUCTION DOCUMENT PREPARATION				\$0.00	3.00		\$40.00	\$120.00				\$0.00
SUMMARY OF QUANTITIES AND ESTIMATE OF COST	6.00	300.00	\$0.10	\$180.00				\$0.00				\$0.00
BIDDING ASSISTANCE				\$0.00				\$0.00				\$0.00
CONSTRUCTION COORDINATION				\$0.00				\$0.00				\$0.00
				\$0.00				\$0.00				\$0.00
				\$0.00				\$0.00				\$0.00
				\$0.00				\$0.00				\$0.00
				\$0.00				\$0.00				\$0.00
				\$0.00				\$0.00				\$0.00
				\$0.00				\$0.00				\$0.00
TOTALS				\$180.00				\$120.00				\$0.00