

### CITY OF WASHINGTON, ILLINOIS **Public Works Committee Agenda Communication**

Meeting Date: March 2, 2020

Prepared By: Jon Oliphant, AICP, Planning & Development Director

Agenda Item: Freedom Parkway Phase I Engineering Contract Authorization

**Explanation**: A Request for Qualifications for the completion of Phase I engineering for the remainder of Freedom Parkway was released prior to Christmas with a submittal deadline of January 17. The hope is to complete Phase I engineering near the end of 2020 and then transition into Phase II thereafter in early 2021. Barring any unforeseen circumstances, the desire will be to complete the plan design in the first half of 2021 to allow for some construction to commence as soon as later in 2021.

> Nine firms submitted statements of qualifications. Most of these firms have considerable experience with similar types of projects that would be designed to meet federal specifications in order to ensure that the road is eligible for Surface Transportation Block Grant funds through the Tri-County Regional Planning Commission (TCRPC). A call for projects for the FY 2023-24 cycle was recently announced by TCRPC with an application deadline of April 10. Staff plans to submit an application for funding for much of the remaining construction with the possible exception of roughly the eastern 30% of the road, which could be expedited solely using local funds upon the finish of Phase I and II engineering.

> Staff recommends Terra Engineering to complete the Phase I engineering. Terra completed Phase I and II engineering for the eventual realignment of the Nofsinger Road/US 24 intersection and has significant experience with comparable projects. The project scope would include Intersection Design Studies at intersections that figure to have increased traffic volumes and may be warranting of traffic signals or roundabouts. This will also help determine the best locations for future curb cuts to provide ingress/egress for private developments.

Fiscal Impact: The contract would be for a not-to-exceed amount of \$120,927.66. The FY 19-20 budget includes \$165,000 for engineering for Freedom and Lakeshore Drive. Staff has tentatively budgeted for an additional \$50,000 for Phase II engineering in FY 20-21 and \$60,000 to complete that in FY 21-22.

Action Requested: Staff requests approval of the Freedom Phase I engineering contract with Terra Engineering.

Municipalit	/	L			Name
City of W	/ashington	0		C O N	TERRA Engineering, LTD
Township		A L	Preliminary Engineering		Address 401 Main Street Ste 1560
County		A	Services Agreement	L	City
Tazewell		G E N		T A N	Peoria. 61602
Section		C		Ť	State IL
Agency (	REEMENT is made and ente _A) and Consultant (ENGINE nent of the above SECTION.		nto this day of and covers certain professional engine	ering	, <u>2020</u> between the above Local services in connection with the
			Section Description		
Name _	Freedom Parkway Extension				
Route _	Length 0	70	Mi. <u>3500.00</u> FT		(Structure No)
Termini	Extension to Cummings La	ne			
Description					
Prelimina Cummina	ry Engineering Phase I for the s Lane approxiamately 3,500	ext	ension of Freedom Park from its currer	nt term	ninous near Menards warehouse to
Odmining	s care approximately 5,500	to ti	Agreement Provisions		
he Engin	eer Agrees,				
1. To pe propo	rform or be responsible for th sed improvements herein be	e pe	formance of the following engineering lescribed in <b>Attachment A, Scope of</b>	servio Servi	ces for the LA, in connection with the ces.
а. 🔲	Make such detailed surveys	as a	re necessary for the preparation of de	tailed	roadway plans
b. 🗌			raulic surveys and gather high water d		• •
с. 🗌	analyses thereof as may be	requ	soil surveys or subsurface investigatio ired to furnish sufficient data for the de de in accordance with the current requ	sian d	of the proposed improvement
d. 🗌	Make or cause to be made a furnish sufficient data for the	such e des	traffic studies and counts and special ign of the proposed improvement.	nterse	ection studies as may be required to
e. 🗌	Prepare Army Corps of Eng Bridge waterway sketch, an agreements.	inee d/or	s Permit, Department of Natural Resor Channel Change sketch, Utility plan an	urces- d loca	Office of Water Resources Permit, ations, and Railroad Crossing work
f. 🗌	Prepare Preliminary Bridge and high water effects on ro	desig adwa	n and Hydraulic Report, (including eco y overflows and bridge approaches.	nomi	c analysis of bridge or culvert types)
g. 🗌	with five (5) copies of the pla	ans,	iled plans, special provisions, proposa special provisions, proposals and estim urnished to the LA by the ENGINEER	nates.	Additional copies of any or all
h. 🗌	Furnish the LA with survey a	ind c	rafts in quadruplicate of all necessary annel change agreements including pri	right-c	of-way dedications, construction

	i. Assist the LA in the tabulation and interpretation of the contractors' proposals							
	j. Prepare the necessary environmental documents in accordance with the procedures adopted DEPARTMENT's Bureau of Local Roads & Streets.	by the						
	k.   Prepare the Project Development Report when required by the DEPARTMENT.							
(2)	That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to the be in accordance with current standard specifications and policies of the DEPARTMENT. It is being such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval by the DEPARTMENT.	understood that all						
(3)	To attend conferences at any reasonable time when requested to do so by representatives of the LA	or the Department.						
(4)	In the event plans or surveys are found to be in error during construction of the SECTION and revisio survey corrections are necessary, the ENGINEER agrees that he will perform such work without expethough final payment has been received by him. He shall give immediate attention to these changes minimum delay to the Contractor.	ense to the LA, even						
(5)	5) That basic survey notes and sketches, charts, computations and other data prepared or obtained by the Engineer pursuant to this AGREEMENT will be made available, upon request, to the LA or the DEPARTMENT without cost and without restriction or limitations as to their use.							
(6)	That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be and will show his professional seal where such is required by law.	e endorsed by him						
The	e LA Agrees,							
	<ul> <li>a.  A sum of money not to exceed \$120.927.6 based on Attachment B - Estimate of Cost.</li> <li>b. A sum of money equal to the percent of the awarded contract cost for the proposed improvement PEORIA COUNTY based on the following schedule:</li> </ul>	ent as approved by						
	Schedule for Percentages Based on Awarded Contract Cost							
	Awarded Cost Percentage Fees Under \$50,000	(see note) %						
		% % %						
	Note: Not necessarily a percentage. Could use per diem, cost-plus or lump sum.	%						

- That payments due the ENGINEER for services rendered in accordance with this AGREEMENT will be made as soon as practicable after Invoicing by the ENGINEER.
   Upon completion of detailed plans, special provisions, proposals and estimate of cost—being the work required by paragraphs 1a through 1g under THE ENGINEER AGREES—to the satisfaction of the LA and their approval by the DEPARTMENT, 90 percent of the total fee due under this AGREEMENT based on the approved estimate of cost.
   Upon award of the contract for the improvement by the LA and its approval by the DEPARTMENT, 100 percent of the total fee due under the AGREEMENT based on the awarded contract cost, less any amounts paid under "a" above.
   By Mutual agreement, partial payments, not to exceed 90 percent of the amount earned, may be made from time to time as the work progresses.
   That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services.
- 4. That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services provided for in Appendix A Scope of Services and prior to the completion of such services, the LA shall reimburse the ENGINEER for his actual costs plus 166.00 percent incurred up to the time he is notified in writing of such abandonment -"actual cost" being defined as in paragraph 2 of THE LA AGREES.
- 5. That, should the LA require changes in any of the Phase I Project Development except for that required pursuant to paragraph 4 of THE ENGINEER AGREEs, after they have been approved by the CITY, the LA will pay the ENGINEER for such changes on the basis of actual cost plus <a href="166.00">166.00</a> percent to cover profit, overhead and readiness to serve actual cost" being defined as in paragraph 2 of THE LA AGREES. It is understood that "changes" as used in this paragraph shall in no way relieve the ENGINEER of his responsibility to prepare a complete and adequate set of plans and specifications.

#### It is Mutually Agreed,

- 1. That any difference between the ENGINEER and the LA concerning their interpretation of the provisions of this Agreement shall be referred to a committee of disinterested parties consisting of one member appointed by the ENGINEER, one member appointed by the LA and a third member appointed by the two other members for disposition and that the committee's decision shall be final.
- 2. This AGREEMENT may be terminated by the LA upon giving notice in writing to the ENGINEER at his last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LA all surveys, permits, agreements, preliminary bridge design & hydraulic report, drawings, specifications, partial and completed estimates and data, if any from traffic studies and soil survey and subsurface investigations with the understanding that all such material becomes the property of the LA. The ENGINEER shall be paid for any services completed and any services partially completed in accordance with Section 4 of THE LA AGREES.
- 3. That if the contract for construction has not been awarded one year after the acceptance of the plans by the LA and their approval by the DEPARTMENT, the LA will pay the ENGINEER the balance of the engineering fee due to make 100 percent of the total fees due under this AGREEMENT, based on the estimate of cost as prepared by the ENGINEER and approved by the LA and the DEPARTMENT.
- 4. That the ENGINEER warrants that he/she has not employed or retained any company or person, other than a bona fide employee working solely for the ENGINEER, 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 working solely for the ENGINEER, any fee, commission, percentage, brokerage fee, gifts or any other consideration, contingent upon or resulting from the award or making of this contract. For Breach or violation of this warranty the LA shall have the right to annul this contract without liability.

IN WITNESS WHEREOF, the parties have caused the AGREEMENT to be executed in quadruplicate counterparts, each of

which shall be considered as an original by their duly authorized officers.



#### **Project Description**

The City of Washington desires to extend Freedom Parkway from its exiting terminus near the Menards warehouse to Cummings Lane and distance of 2,500 feet. Local funds will be used for the engineering however Local, MFT and Federal funds may be used construction. The contract is for the Phase I engineering with Phase II following at a later date.

The proposed improvements will include extending an existing 3-lane urban roadway, with bicycle accommodations, bioswales, pedestrian accommodations, street and pedestrian lighting, street trees, amenities, all within the existing 80-feet wide right-of-way. A traffic study will be done for the existing intersections at McClugage, Menards/Walmart entrance and Kingsbury Road alone with new intersections at Cummings Lane, Lakeshore Drive and Business 24.

#### **Design Standards**

TERRA will follow IDOT policy and procedures, as described in Part III of the Bureau of Local Roads and Streets (BLRS) Manual for Federal-Aid.

#### **Deliverables**

- Phase I Project Development Report
  - Special Environmental Studies
  - o Traffic Study and Intersection Design Studies
  - o Public Involvement Reponses
  - o Design Approval (BLR 22210)
  - Approval of Design Variances (BLR 22120)
  - o Cost Estimate

#### Phase I - Project Development

The following Phase I Engineering tasks will be completed under this work order:

- Survey, Field Investigations and Data Gathering
  - o Survey
    - Austin Engineering reviews and assembles existing survey data including control points, benchmarks, topo and boundary surveys for Freedom Parkway and Lakeshore Drive.
    - Verify Control points and Benchmarks in the field
    - Supplement existing Topographic survey along the proposed Freedom Parkway corridor from west of current terminus to Cummings Lane a minimum of 200 feet beyond existing ROW on Freedom Parkway, 600 feet north and south along Cummings as needed to complete Phase I recommendations (in particular, elevations, topo, utilities, existing pavement, intersection details at Cummings Lane)
    - Topographical survey of Kingsbury and Cummings Lane as needed to complete Phase I recommendations for possible geometric improvements



- Boundary Survey for proposed Freedom Parkway corridor from current terminus to Cummings Lane, for Cummings Lane at proposed intersection and for Kingsbury Road at Cummings Lane to establish existing ROW and establish new easements and/or ROW.
- Pin existing ROW if necessary
- Geotechnical Services
  - Obtain soil borings at least every 500 feet along the proposed corridor of Freedom Parkway.
  - Obtain soil borings at least every 500 feet along the proposed corridor of Lakeshore Drive (optional)
  - Obtain percolation tests and soil reports
- Traffic Counts
  - Set up Miovision cameras to count and class vehicles and turning movements and count bikes and pedestrians for 48 hours during standard weekdays at the following locations:
    - McClugage Road and Freedom Parkway
    - Freedom Parkway and entrances to Menards and Walmart
    - Business 24 at Lakeshore Drive
    - Cummings Lane at Recreation Drive
    - Cummings Lane at Kingsbury Road
- Process data for peak volumes at the above intersections

#### Environmental

- Submit an Environmental Survey Request (ESR) for Freedom Parkway Corridor, Lakeshore Drive Corridor and intersection of Kingsbury and Cummings Lane
- Prepare a PESA (Preliminary Environmental Survey Assessment) as required by the ESR.
- Respond to the PESA and coordinate the PSI if needed
- Perform a PSI (Preliminary Site Investigation) as needed based on the results of the PESA.
- Prepare an MFT Certification / Project Status (BLR 10100)
- Attend Bi-Monthly to determine Environmental processing, anticipate Federal Approved CE Project.

#### Project Studies

- o Traffic Impact Study
  - Prepare Traffic Impact Study to reflect the redistribution of traffic with the extension of Freedom Parkway. Study shall cover the existing intersections at



McClugage, Menards/Walmart and Kingsbury as well as the proposed intersections with Lakeshore Drive and Cummings Lane.

- Intersection Design Studies —Number of IDS's will be based on results of the Traffic Impact Study. It is anticipated there will be 3 IDS's: Lakeshore Dr, Cummings Ln and Menards/Walmart.
- Drainage Studies
  - Identify existing drainage patterns and exiting storm sewer system
  - Develop drainage system design including green infrastructure (GI) practices such as bioswales to accommodate roadway and surrounding drainage.
  - Review previously developed storm sewer system and provide cost/impact comparison to green infrastructure system.

#### Preliminary Design

- o Existing Conditions:
  - Prepare property boundary mapping
  - Prepare existing profiles
- Proposed Improvements:
  - Review proposed typical section, adjust if necessary
  - Review proposed horizontal alignment, adjust if necessary
  - Review proposed vertical profile, adjust if necessary
  - Develop proposed drainage plan from green infrastructure or storm sewer options
  - Prepare cross sections
  - Prepare plan and profile sheets
  - Identify utility conflicts and required relocations (if any)
  - Identify required design variances; prepare justification and submit IDOT
  - Develop street lighting and landscaping options
  - Determine/refine ROW needs including temporary construction easements
- Proposed Improvements Lakeshore Drive
  - Establish alignment
  - Establish Profile for a distance suitable to develop intersection with Freedom Parkway
  - Develop proposed drainage plan from green infrastructure or storm sewer options for interim drainage
  - Prepare cross sections
  - Determine/refine ROW needs including temporary construction easements



#### o Access Control

- Review current properties adjacent to Proposed Freedom Parkway, Lake Shore Dr and Cummings Lane that will be impacted by project.
- Based off of Comprehensive plan develop an estimated use and traffic for properties.
- Develop access plan that will accommodate properties and potential need for dedicated turn lanes and traffic signal.

#### Public Involvement

- Coordinate and facilitate meeting with stakeholders
- Write letters to properties impacted by project.

#### Coordination & Project Management

- o Coordinate with City
- o Coordinate with utility companies
- Coordinate with IDOT
- Review project deliverables for compliance
- o Prepare monthly invoices

## Attachment B MANHOUR ESTIMATE

PROJECT: Freedom Parkway Extention

PROJECT NO: 20-XXX

COMPUTATION BY: EST Date: 2/25/2020

CHECKED BY: CCC Date: 2/25/2020

TASKS HOURS DOLLARS

DATA COLLECTION 152 \$17,341.92

**DIRECT COSTS** 

(Soil Borings/Report) \$4,200.00

Traffic Counts \$900.00

Austin Engineering \$2,500.00

\$7,600.00

**PHASE I ENGINEERING** 769 **\$90,295.74** 

**DIRECT COSTS** 

Travel, Printing, Etc \$690.00

PESA \$5,000.00

\$5,690.00

**TOTAL Not To Exceed: \$120,927.66**