



**CENTRAL TEXAS  
Regional Mobility Authority**

September 7, 2016  
AGENDA ITEM #6

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Approve Work Authorization No. 2 with Parsons  
Brinckerhoff, Inc. for GEC Services related to the  
183 North Project

Strategic Plan Relevance: Regional Mobility  
Department: Engineering  
Contact: Justin Word, P.E., Director of Engineering  
Associated Costs: \$126,500  
Funding Source: Reimbursed with Project Funds  
Action Requested: Consider and act on draft resolution

Summary:

On July 1, 2016, the Mobility Authority entered into an Agreement with Parsons Brinckerhoff, Inc. for General Consulting Civil Engineering Services. This work authorization approves Parsons Brinckerhoff, Inc. to provide support of current activities which include completing schematic design, project management and administration in the amount of \$110,000.00. The Draft Resolution authorizes an additional \$16,500 as contingency, for a total amount not to exceed \$126,500.00.

Backup provided: Work Authorization No. 2  
Fee Estimate  
Draft Resolution

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 16-0XX**

**APPROVAL OF WORK AUTHORIZATION NO. 2 WITH PARSONS  
BRINCKERHOFF, INC. FOR GENERAL ENGINEERING CONSULTANT SERVICES  
RELATED TO THE 183 NORTH PROJECT**

WHEREAS, by Resolution 16-034 dated June 15, 2015, the Board of Directors authorized the Executive Director to negotiate and execute on behalf of the Mobility Authority an agreement with Parsons Brinckerhoff, Inc. for general engineering consultant services; and

WHEREAS, on July 1, 2016 the Mobility Authority entered into an agreement with Parsons Brinckerhoff, Inc. for general consulting civil engineering services; and

WHEREAS, the Executive Director and Parsons Brinckerhoff, Inc. have agreed to proposed Work Authorization No. 2 for general engineering consultant services for the 183 North Project; and

WHEREAS, the Executive Director estimates the reasonable fees associated with the services to be provided under Work Authorization No. 2 to be in an amount not to exceed \$126,500, including contingency; and

WHEREAS, the services to be provided under in Work Authorization No. 2 shall be substantially completed by December 31, 2017. However, Work Authorization No. 2 will not expire until all tasks associated with the Scope of Services are complete; and

WHEREAS, the Executive Director recommends that the Board approve the proposed Work Authorization No. 2, a copy of which is attached to this resolution as Exhibit A.

NOW THEREFORE, BE IT RESOLVED, that the Board approves an amount not to exceed \$126,500 for the services described in Work Authorization No. 2; and

BE IT FURTHER RESOLVED, that the Board authorizes the Executive Director to finalize and execute the proposed Work Authorization No. 2 with Parsons Brinckerhoff, Inc., in the form or substantially the same form as Exhibit A.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 7<sup>th</sup> day of September, 2016.

Submitted and reviewed by:

Approved:

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Geoffrey Petrov, General Counsel

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Ray A. Wilkerson  
Chairman, Board of Directors

**Exhibit A**

**EXHIBIT D**  
**WORK AUTHORIZATION**  
**WORK AUTHORIZATION NO. 2**

This Work Authorization is made as of this \_\_\_\_ day of \_\_\_\_\_, 2016, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING ENGINEERING SERVICES, dated as of July 1, 2016 (the “Agreement”), between the Central Texas Regional Mobility Authority (“Authority”) and **Parsons Brinckerhoff, Inc.**, (“GEC”). This Work Authorization is made for the following purpose, consistent with the services defined in the Agreement:

***US 183 North - Project Development***

**Section A. - Scope of Services**

A.1. GEC shall perform the following Services:

*Please reference Attachment A – Scope of Work*

A.2. The following Services are not included in this Work Authorization, but shall be provided as Additional Services if authorized or confirmed in writing by the Authority.

*Not applicable*

A.3. In conjunction with the performance of the foregoing Services, GEC shall provide the following submittals/deliverables (Documents) to the Authority:

*Please reference Attachment A – Scope of Work*

**Section B. - Schedule**

GEC shall perform the Services and deliver the related Documents (if any) according to the following schedule:

Unless amended otherwise by mutual agreement between Authority and GEC, the Services defined herein shall expire on December 31, 2016, or when all tasks associated with the Scope of Services are complete as defined by the Authority. Services defined herein shall be substantially complete by December 31, 2017. This Work Authorization will not expire until all tasks associated with the Scope of Services are complete.

**Section C. - Compensation**

C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the GEC the amount not to exceed **\$110,000.00** based on a Cost Plus fee listed in Attachment B – Fee Estimate. Compensation shall be in accordance with the Agreement.

C.2. Compensation for Additional Services (if any) shall be paid by the Authority to the

GEC according to the terms of a future Work Authorization.

**Section D. - Authority's Responsibilities**

The Authority shall perform and/or provide the following in a timely manner so as not to delay the Services of the GEC. Unless otherwise provided in this Work Authorization, the Authority shall bear all costs incident to compliance with the following:

N/A

**Section E. - Other Provisions**

The parties agree to the following provisions with respect to this specific Work Authorization:

N/A

Except to the extent expressly modified herein, all terms and conditions of the Agreement shall continue in full force and effect.

Authority: Central Texas Regional Mobility Authority

GEC: Parsons Brinckerhoff, Inc.

By: Mike Heiligenstein

By: Mario Medina

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: Executive Director

Title: Area Manager

Date: \_\_\_\_\_

Date: \_\_\_\_\_

**CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY ATTACHMENT A – SCOPE  
OF SERVICES  
WORK AUTHORIZATION NO. 2**

**SERVICES TO BE PROVIDED BY THE GENERAL ENGINEERING CONSULTANT  
(GEC)**

**General**

The services to be performed by GEC will include, but not be limited to, professional services and deliverables for various tasks related to the study and development of the US 183 North Project, “the Project”. The limits of the services are from RM620 south to MoPac.

In performing its services, GEC shall have the right to rely on materials, information and data provided by other parties. In addition, GEC’s services hereunder shall not relieve any other project participant of their contractual duties and obligations to the Authority.

**Task 1: Project Management & Administration During GEC Transition**

The GEC will perform internal project management, administrative and coordination duties, including contract administration, reporting, meeting minutes of required meetings, and other related administrative tasks (e.g., direct costs) associated with the GEC’s services for the Project, including:

**Task 1.1: Contract Administration**

Assist the Authority in Preparation of contracts, as required, between the GEC and the Authority, GEC and subconsultants, and the Authority and its subconsultants. Provide assistance to the Authority related to Board approval of contracts. Coordinate the GEC’s subconsultant(s) activities, review all work products prepared by GEC’s subconsultant(s), review and approve GEC’s subconsultant(s) progress reports and invoices. Prepare and submit reimbursements requests to TxDOT for environmental services included in the Advance Funding Agreement. Maintain and updated GL code budgets for the project on a monthly basis.

**Task 1.2: Progress Status Reports**

Comprehensive Project Progress Status Update Reports will be prepared, as requested by the Authority, and may include but not limited to activities completed, initiated or ongoing, during the reporting period. This includes Project Quarterly Reports and presentations, and preparation and support for Project updates for distribution to stakeholders and the Board of Directors.

**Task 1.5: Project Reporting/Dashboard Update**

Prepare and submit updated project information, including schedule and budget, for the Authority’s dashboard on a monthly basis; provide QC review of revised

information on website.

## **Task 2: Project Development**

This scope of services includes professional services and deliverables in support of the Authority's development of the Project.

### **Task 2.1: Project Development Support**

The GEC will provide support to the Authority as required during the Project Development process. Anticipated efforts will include:

- Engineering and Technical Support: Provide various engineering and technical tasks as requested by the Authority including but not limited to: engineering assistance, general technology assistance, environmental assistance, reports, research, presentations, and meetings.
- TxDOT, Capital Metro, and FHWA Coordination: Provide appropriate staff as part of coordination efforts between the Authority and TxDOT, Capital Metro, and FHWA. GEC will provide coordination efforts on the Authority's behalf at the direction of the Authority.
- Prepare for and attend monthly TxDOT coordination meetings
- Prepare for and attend monthly TxDOT status meetings
- Provide one quarterly update to TxDOT regarding funding for the project, phasing of the project, and proposed delivery methods for the project
- Incorporate Mobility Authority comments on Detention Pond Interlocal Agreement, distributed agreement for TxDOT review and comment.
- Provide one update to TxDOT informational tabloid
- Compile and maintain TxDOT LGPP documentation for schematic approval stage of the project

### **Task 2.2: Traffic and Revenue (T&R) Consultant Coordination**

Provide coordination and support to the Authority's T&R Consultant, as directed by the Authority.

### **Task 2.3: Financial Planning Support**

Operation, Maintenance, and Renewal & Replacement Estimate base model. Develop GEC's opinion of probable operations cost estimates using either a Sketch Level approach (i.e., an assumed per transaction cost based on average operations costs of similar toll systems) or a Level 1 approach (i.e., estimate actual quantities for the various elements of the toll operations, enforcement and incident management and applying anticipated unit prices to same to develop an opening year cost estimate which can be escalated over time).

Develop and/or update GEC's opinion of probable annual/routine maintenance cost estimates using either a Sketch Level approach (i.e., an estimated per centerline mile cost based on the facility type which considers the number of lanes, pavement material, and location) or a Level 1 approach (i.e., estimate actual

quantities for the various elements of the maintenance efforts and applying anticipated unit prices to same to develop an opening year cost that can be escalated over time).

Develop and/or update GEC's opinion of probable renewal & replacement budget cost estimates (non-routine maintenance estimates) using either a Sketch Level approach (i.e., an estimated per mile cost based on renewal & replacement budgets utilized on similar facilities) or a Level 1 approach (i.e., includes the identification of a long-term, periodic maintenance/replacement schedule, estimation of quantities for the associated elements, and inflated prices of same to assess the overall cost requirements of the system in the target years).

#### **Task 2.4: Project Phasing**

GEC will provide updates to preliminary costs estimate, schedule, financial feasibility analysis necessitated by the on-going project scoping/sizing process. It is anticipated that this effort will include coordination with TxDOT and the Environmental Consultant who produced the schematic.

##### **Task 2.4.1: Agency Coordination**

Support the Authority in coordination activities with TxDOT Austin District, Consultants, Resource Agencies, TxDOT's Environmental Affairs Division, and the FHWA, as required; including meeting preparation. Coordination activities will include gaining consensus with between TxDOT and the Mobility Authority regarding Value Engineering recommendations to be incorporated into the final schematic.

##### **Task 2.4.2: Schematic Revision Oversight**

GEC will provide high level review, for general conformance with the design criteria and overall project goals, of the final schematic design prepared by the Environmental Consultant. Written comments will be provided for the review. GEC will also coordinate with the Environmental Consultant on Value Engineering recommendations to be incorporated into the final schematic.

#### **Task 3.0: PUBLIC INVOLVEMENT SERVICES**

It is anticipated that most GEC public involvement services will be provided through a separate contract agreement with Rifeline. Some components of Enhanced Public Involvement Activities are included within this work authorization.

##### **Task 3.1 Enhanced Public Involvement Activities**

Support the Authority in comprehensive services in planning, scheduling, developing, conducting, and documenting enhanced public involvement activities, as required; including:

One project website update

[END OF SECTION]



**ATTACHMENT B - Fee Estimate**

<b>183 North Project Development</b>		<b>Sr Engineering Manager (P14)</b>	<b>Sr Supervising Engineer (P13)</b>	<b>Engineer (P10)</b>	<b>Engineer II</b>	<b>Engineer I</b>	<b>Public Involvement (P9)</b>	<b>Administrative Assistant</b>	<b>TOTAL</b>	<b>TOTAL</b>
		<b>K. Creamer</b>	<b>K. Wilder</b>	<b>M. Ater</b>	<b>V. Kaiser</b>	<b>R. Bayer</b>	<b>I. Cavazos</b>	<b>T. Davidson</b>		
<b>Estimated Average Labor Rates</b>		<b>\$80.00</b>	<b>\$72.00</b>	<b>\$45.00</b>	<b>\$38.00</b>	<b>\$32.00</b>	<b>\$55.00</b>	<b>\$29.00</b>	<b>HRS</b>	<b>FEE</b>
<b>TASK / WORK DESCRIPTION</b>										
<b>183 North Project Development</b>										
<b>Task 1</b>	PROJECT MANAGEMENT AND ADMINISTRATION									
<b>Task 1.1</b>	Contract Administration	8	25					8	41	\$7,821.93
<b>Task 1.2</b>	Progress Status Reports		20					7	27	\$4,879.71
<b>Task 1.3</b>	Project Reporting / Dashboard Update		12					6	18	\$3,082.86
<b>Task 2</b>	PROJECT DEVELOPMENT									
<b>Task 2.1</b>	Project Development Support		36	53	40	40		18	187	\$24,223.55
<b>Task 2.2</b>	Traffic and Revenue (T&R) Consultant Coordination		4	6	4	4		2	20	\$2,613.07
<b>Task 2.3</b>	Financial Planning Support		37	40	42	42		19	180	\$23,305.99
<b>Task 2.4</b>	Project Phasing Coordination		43	40	48	48		22	201	\$26,094.82
<b>Task 3</b>	PUBLIC INVOLVEMENT SERVICES									
<b>Task 3.1</b>	Enhanced Public Involvement Activities		3				70	20	93	\$13,113.40
<b>TOTAL DIRECT LABOR</b>		8	180	139	134	134	70	102	767	
<i>% Total by Classification</i>		1.04%	23.47%	18.12%	17.47%	17.47%	9.13%	13.30%		
Labor Costs		\$ 640.00	\$ 12,960.00	\$ 6,255.00	\$ 5,092.00	\$ 4,288.00	\$ 3,850.00	\$ 2,958.00		
Overhead Rate		1.5382	1.7	1.5382	1.7	1.7	1.5382	1.7		
Overhead Costs		\$ 984.45	\$ 22,032.00	\$ 9,621.44	\$ 8,656.40	\$ 7,289.60	\$ 5,922.07	\$ 5,028.60		
Profit		10.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%		
Profit Costs		\$ 162.44	\$ 3,499.20	\$ 1,587.64	\$ 1,374.84	\$ 1,157.76	\$ 977.21	\$ 798.66		
<b>Total Loaded Labor</b>		\$ 1,786.89	\$ 38,491.20	\$ 17,464.09	\$ 15,123.24	\$ 12,735.36	\$ 10,749.28	\$ 8,785.26		\$ 105,135.31
<i>% Total by Class</i>		1.70%	36.61%	16.61%	14.38%	12.11%	10.22%	8.36%		
<b>Total Direct Expenses</b>		\$ 5,000.00								
<b>Total</b>		\$ 110,135.31								