

# **CAMINO REAL REGIONAL MOBILITY AUTHORITY BOARD RESOLUTION**

**WHEREAS**, the Camino Real Regional Mobility Authority (CRRMA) selected a general engineering consultant (GEC) for the provision of various engineering and other consultant services to the CRRMA on an as-needed basis;

**WHEREAS**, the CRRMA and the Texas Department of Transportation (TxDOT) have entered into an interlocal agreement, whereby TxDOT will provide funding for the CRRMA to complete design plans for the I-10 Frontage Roads Extension Project, Phase 1 and the CRRMA has engaged an engineering firm to develop such design plans; and

**WHEREAS**, the CRRMA and its GEC now desire to execute a new work authorization in order for the GEC to provide design oversight, administration, letting, and associated support to the CRRMA as may be required for the referenced project.

**NOW, THEREFORE, BE IT RESOLVED BY THE CAMINO REAL REGIONAL MOBILITY AUTHORITY:**

**THAT** the Executive Director be authorized to execute **Work Authorization No. 64** with Atkins North America, Inc., including any additional documents or materials as may be required, for the provision of various design oversight, administration, procurement, and support services necessary for the I-10 Frontage Roads Extension Project, Phase 1.

**PASSED AND APPROVED THIS 13<sup>TH</sup> DAY OF MARCH 2024.**

**CAMINO REAL REGIONAL  
MOBILITY AUTHORITY**

**ATTEST:**

\_\_\_\_\_  
James L. (Jim) Smith, Vice Chair

\_\_\_\_\_  
Monica L. Perez  
Board Secretary

**APPROVED AS TO CONTENT:**

\_\_\_\_\_  
Raymond L. Telles  
Executive Director

## **WORK AUTHORIZATION NO. 64**

This **Work Authorization No. 64** (“Work Authorization”) is made as of this \_\_\_\_\_ day of \_\_\_\_\_, 2024, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING ENGINEERING SERVICES, dated August 22, 2022 (the “Agreement”), between the Camino Real Regional Mobility Authority (“Authority”) and Atkins North America, Inc. (“GEC”). This Work Authorization is made for the purposes identified below, consistent with the services defined in the Agreement.

This Work Authorization is intended to allow the GEC to provide certain engineering and related services associated with design oversight and construction procurement services for the I-10 Frontage Roads Extension, Phase 1 Project. The services requested of the GEC include those activities normally associated with design oversight and construction procurement services for a project similar in nature and scope and are more fully enumerated herein.

Therefore, and in consideration of the mutual covenants and agreement between the parties, the Authority and GEC hereby agree to the following.

### **Section A. – Scope of Services**

The GEC shall provide general engineering support and related services to the Authority pursuant to and in accordance with **EXHIBIT A** to this Work Authorization, which is incorporated herein for all purposes.

### **Section B. – Schedule**

The GEC shall commence the performance of the services required by **EXHIBIT A** upon the execution of this Work Authorization. The services shall be provided in accordance with the Schedule identified within **EXHIBIT A**.

### **Section C. – Compensation**

In return for the performance of the obligations identified within this Work Authorization, the Authority shall pay to the GEC an amount not to exceed THREE HUNDRED SIXTY-EIGHT THOUSAND TWENTY-TWO AND 50/100 DOLLARS (\$368,022.50), based on the Fee Estimate Summary, which is attached hereto for all purposes as **EXHIBIT B**. Compensation shall be made in accordance with the Agreement. Invoices shall be provided by the GEC in accordance with **EXHIBIT C**, which is attached hereto and incorporated herein for all purposes.

[SIGNATURES BEGIN ON THE FOLLOWING PAGE]

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

Authority: Camino Real Regional Mobility  
Authority

GEC: Atkins North America, Inc.

Signature: \_\_\_\_\_  
By: Raymond L. Telles  
Title: Executive Director  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
By: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

## **EXHIBIT A**

### **SERVICES TO BE PROVIDED BY THE GEC**

#### **INTRODUCTION**

The scope of this Work Authorization No. 64 covers the services requested of the GEC for program management, administration, and oversight of professional services contracts for engineering services, and the preparation of letting package for the IH-10 WB Frontage Roads Extension, Phase 1 Project from Executive Center Boulevard to Sunland Park Drive, which is a TxDOT project (Project).

Payment for work performed under this work authorization is subject to the Agreement for General Engineering Consulting Services between the Authority and the GEC.

#### **PROGRAM MANAGEMENT**

The GEC will provide staff to administer, manage, review, and coordinate development of the Project. This staff will represent the Authority's interest as defined in any individual project agreements entered into by the Authority and other parties. The GEC will develop and maintain a staffing plan for consistency and appropriate levels of project staffing. Activities in this task include:

#### **FUNCTION CODE 102(110) - FEASIBILITY STUDIES**

##### **ROUTE AND DESIGN STUDIES**

- 110.1. Data Collection and Field Reconnaissance.**
- 110.2. Design Criteria.**
- 110.3. Preliminary Cost Estimates.**
- 110.4. Design Concept Conference.**
- 110.5. Geotechnical Borings and Investigations.**

#### **FUNCTION CODE 145(164) - MANAGING CONTRACTED/DONATED PS&E**

##### **CONTRACT MANAGEMENT AND ADMINISTRATION**

- 145.1. Contract Management and Administration**

#### **FUNCTION CODE 160 (150) – ROADWAY DESIGN**

##### **DESIGN SURVEYS AND CONSTRUCTION SURVEYS**

- 150.1. Design surveys and construction surveys**

#### **FUNCTION CODE 160(160) - ROADWAY DESIGN**

##### **ROADWAY DESIGN CONTROLS**

- 160.1. Geometric Design**
- 160.2. Roadway Design**
- 160.3. Typical Sections**
- 160.4. Mainlane and Frontage Road Design - OMITTED**
- 160.5. Interchange - OMITTED**
- 160.6. Cross Streets - OMITTED**
- 160.7. Cut and Fill Quantities**
- 160.8. Plan Preparation**
- 160.9. Wetlands Information – OMITTED**

- 160.10. Pavement Design
- 160.11. Pedestrian and Bicycle Facilities

#### **FUNCTION CODE 160(161) - ROADWAY DESIGN**

##### **DRAINAGE**

- 161.1. Data Collection
- 161.2. Hydrologic Studies
- 161.3. Storm Drains - OMITTED
- 161.4. Cross-Drainage Structures - OMITTED
- 161.5. Temporary Drainage Facilities – OMITTED
- 161.6. Complex Hydraulic Design and Documentation
- 161.7. Scour Analysis
- 161.8. Environmental Permits - OMITTED
- 161.9. Plans, Specifications and Estimates (PS&E) Development for Hydraulics

#### **FUNCTION CODE 160(162) - ROADWAY DESIGN**

##### **SIGNING, PAVEMENT MARKINGS AND SIGNALIZATION (PERMANENT)**

- 162.1. Signing
- 162.2. Pavement Marking

#### **FUNCTION CODE 160(163) - ROADWAY DESIGN**

##### **MISCELLANEOUS (ROADWAY)**

- 163.1. Utility engineering investigation (currently subsurface utility engineering):
- 163.2. Retaining Walls and Miscellaneous Structures
- 163.3. Traffic Control Plan, Detours, Sequence of Construction
- 163.4. Temporary Traffic Signals and Illumination - OMITTED
- 163.5. Illumination
- 163.6. Storm Water Pollution Prevention Plans (SWP3).
- 163.7. Compute and Tabulate Quantities.
- 163.8. Special Utility Details (Water, Sanitary Sewer, etc.) - OMITTED
- 163.9. Miscellaneous Structural Details - OMITTED
- 163.10. Agreements (Railroad, etc.) and Layouts - OMITTED
- 163.11. Estimate.
- 163.12. Contract time determination.
- 163.13. Specifications and General Notes.
- 163.14. Constructability Review.

#### **FUNCTION CODE 160(170) – ROADWAY DESIGN**

##### **BRIDGE DESIGN**

- 170.1. Bridge Layout
- 170.2. Bridge Detail Summary
- 170.3. Bridge Replacement, Bridge Widening, and Bridge Class Culvert Structural Details
- 170.4. Bridge Rail Retrofit Structural Details - OMITTED
- 170.5. Seismic Analysis of Bridge Projects – OMITTED

- 170.6. Bridge Repair Structural Details - OMITTED  
170.7. Bridge Specifications

**FUNCTION CODE 300(351) – DESIGN VERIF/CHANGES/ALTER**  
**CONSTRUCTION PHASE SERVICES**

**351.1 Attend Preconstruction Meeting**

**ASSUMPTIONS**

**a. Services Provided by Others**

This work authorization assumes the following activities will be provided by others, have already occurred, or will occur in the future:

- Environmental documents
- Preliminary design services to produce schematic design
- PS&E
- ROW acquisition
- ROW mapping revisions/updates necessitated by design
- Utility design
- Utility Agreements (this is envisioned, as required, in future CE&I work authorization)
- Geotechnical investigations and recommendations
- Any and all hazardous material mitigation
- Construction Engineering and inspection and material testing (this is envisioned in future project specific CE&I work authorizations)

**b. Construction Schedule**

This work authorization assumes the project schedules will follow a reasonably normal project development schedule. If the Engineer's services or the letting schedules are delayed beyond reasonable expectations, the budget provided in Exhibit B may not cover all project development expenses.

**c. Funding Source**

This work authorization assumes the IH-10 WB Frontage Road Project is funded entirely from State and Federal funds.

**d. Staff Labor and Overhead Rates**

Hourly rates and overhead rates shown in Exhibit B are estimates or averages used for the purpose of establishing the not to exceed budget for this work authorization. The actual rates used will be in accordance with the GEC Master Agreement with the Authority.

**[END OF EXHIBIT]**

**EXHIBIT B**

AtkinsRéalis	
<b>FEE ESTIMATE SUMMARY</b>	
<b>IH-10 WB Frontage Road Work Authorization #64</b>	
<b><u>TASK</u></b>	<b><u>TOTAL</u></b>
FC 102(110) - Route and Design Studies	\$ 6,832.20
FC 145 (164) - Project Management and Administration	\$ 25,493.20
FC 160 (150) - Design Surveys and Construction Surveys	\$ 866.78
FC 160 (160) - Roadway Design Controls	\$ 6,067.46
FC 160 (161) - Drainage	\$ 4,333.90
FC 160 (162) - Signing, Pavement Markings and Signalization (Permar	\$ 1,733.56
FC 160 (163) - Miscellaneous (Roadway)	\$ 7,801.02
FC 160 (170) - Bridge Design	\$ 8,667.80
FC 300 (351) - Construction Phase Services	\$ 6,424.32
<b>Subtotal</b>	<b>\$ 68,220.24</b>
Omega Engineers, Inc	\$ 299,802.26
<b>TOTAL</b>	<b>\$ 368,022.50</b>

IH-10 WB Frontage Road  
 CSI: 2121-02-167  
 Prime Provider: AtkinsRéalis

	Project Director	Associate Construction Manager	Project Coordinator I	Total	Total Labor
<b>FC 102(110): Feasibility Studies - Design Oversight</b>					
<b>Route and Design Studies</b>					
110.1. Data Collection and Field Reconnaissance	1	1		2	\$433.39
110.2. Design Criteria	1	1		2	\$433.39
110.3. Preliminary Cost Estimates	1	1		2	\$433.39
110.4. Design Concept Conference	8	8	16	32	\$5,098.64
110.5. Geotechnical Borings and Investigations (coordination, review, incorporate)	1	1		2	\$433.39
<b>Labor Hours - Subtotal</b>	12	12	16	40	\$6,832.20
<b>Hourly Rate</b>	<b>\$105.00</b>	<b>\$65.00</b>	<b>\$40.00</b>		
<b>Burden Rate</b>	<b>\$267.68</b>	<b>\$165.71</b>	<b>\$101.97</b>		
<b>FC 102(110) - Subtotal</b>	<b>\$3,212.16</b>	<b>\$1,988.52</b>	<b>\$1,631.52</b>		<b>\$6,832.20</b>
<b>FC 145 (164): Managing Contracted/Donated PS&amp;E - Design Oversight</b>					
<b>Contract Management and Administration</b>					
a. Coordination with the State/CRRMA	8	8	16	32	\$5,098.64
b. Prepare monthly written progress reports	8	8	16	32	\$5,098.64
c. Develop and maintain detailed project schedule	8	8	16	32	\$5,098.64
d. Prepare, distribute and file written and electronic correspondence	8	8	16	32	\$5,098.64
e. Sub contracts, monitor sub consultant activities, invoices.	8	8	16	32	\$5,098.64
<b>Labor Hours - Subtotal</b>	40	40	80	160	\$25,493.20
<b>Labor Hour Cost</b>	<b>\$267.68</b>	<b>\$165.71</b>	<b>\$101.97</b>		
<b>FC 145 (164) - Subtotal</b>	<b>\$10,707.20</b>	<b>\$6,628.40</b>	<b>\$8,157.60</b>		<b>\$25,493.20</b>
<b>FC 160(150): Roadway Design - Design Oversight</b>					
<b>Design Surveys and Construction Surveys</b>					
150.3.1. Design Surveys	2	2		4	\$866.78
<b>Labor Hours - Subtotal</b>	2	2	0	4	\$866.78
<b>Labor Hour Cost</b>	<b>\$267.68</b>	<b>\$165.71</b>	<b>\$101.97</b>		
<b>FC 160(150) - Subtotal</b>	<b>\$535.36</b>	<b>\$331.42</b>	<b>\$0.00</b>		<b>\$866.78</b>
<b>FC 160(160): Roadway Design - Design Oversight</b>					
<b>Roadway Design Controls</b>					
160.1. Geometric Design	2	2		4	\$866.78
160.2. Roadway Design	2	2		4	\$866.78
160.3. Typical Sections	2	2		4	\$866.78
160.7. Cut and Fill Quantities	2	2		4	\$866.78
160.8. Plan Preparation	2	2		4	\$866.78
160.10. Pavement Design	2	2		4	\$866.78
160.11. Pedestrian and Bicycle Facilities	2	2		4	\$866.78
<b>Labor Hours - Subtotal</b>	14	14	0	28	\$6,067.46
<b>Labor Hour Cost</b>	<b>\$267.68</b>	<b>\$165.71</b>	<b>\$101.97</b>		
<b>FC 160(160) - Subtotal</b>	<b>\$3,747.52</b>	<b>\$2,319.94</b>	<b>\$0.00</b>		<b>\$6,067.46</b>
<b>FC 160(161): Roadway Design - Design Oversight</b>					
<b>Drainage</b>					
161.1. Data Collection	2	2		4	\$866.78
161.2. Hydrologic Studies - incl. Hist. Tidal Research	2	2		4	\$866.78
161.6. Complex Hydraulic Design and Documentation	2	2		4	\$866.78
161.7. Scour Analysis	2	2		4	\$866.78
161.9. PS&E Development for Hydraulic Sheets	2	2		4	\$866.78
<b>Labor Hours - Subtotal</b>	10	10	0	20	\$4,333.90
<b>Labor Hour Cost</b>	<b>\$267.68</b>	<b>\$165.71</b>	<b>\$101.97</b>		
<b>FC 160(161) - Subtotal</b>	<b>\$2,676.80</b>	<b>\$1,657.10</b>	<b>\$0.00</b>		<b>\$4,333.90</b>
<b>FC 160(162): Roadway Design - Design Oversight</b>					
<b>Signing, Pavement Markings and Signalization (Permanent)</b>					
162.1. Signing	2	2		4	\$866.78
162.2. Pavement Marking	2	2		4	\$866.78
<b>Labor Hours - Subtotal</b>	4	4	0	8	\$1,733.56
<b>Labor Hour Cost</b>	<b>\$267.68</b>	<b>\$165.71</b>	<b>\$101.97</b>		
<b>FC 160(162) - Subtotal</b>	<b>\$1,070.72</b>	<b>\$662.84</b>	<b>\$0.00</b>		<b>\$1,733.56</b>
<b>FC 160(163): Roadway Design - Design Oversight</b>					
<b>Miscellaneous (Roadway)</b>					
163.1. Utility Engineering and Coordination	2	2		4	\$866.78
163.2. Retaining Walls and Miscellaneous Structures (MSE (fill) & Soil Nail (cut) Walls)	2	2		4	\$866.78
163.3. Traffic Control Plan, Detours, Sequence of Construction	2	2		4	\$866.78
163.5. Illumination	2	2		4	\$866.78
163.6. Storm Water Pollution Prevention Plans (SW3P)	2	2		4	\$866.78
163.7. Compute and Tabulate Quantities (4 submittals)	2	2		4	\$866.78
163.11. Estimate	2	2		4	\$866.78
163.12. Contract Time Determination	2	2		4	\$866.78
163.13. Specifications and General Notes	2	2		4	\$866.78
<b>Labor Hours - Subtotal</b>	18	18	0	36	\$7,801.02
<b>Labor Hour Cost</b>	<b>\$267.68</b>	<b>\$165.71</b>	<b>\$101.97</b>		
<b>FC 160(163) - Subtotal</b>	<b>\$4,818.24</b>	<b>\$2,982.78</b>	<b>\$0.00</b>		<b>\$7,801.02</b>
<b>FC 160(170): Roadway Design - Design Oversight</b>					
<b>Bridge Design</b>					
<b>Bridge Widening at Arroyo #1 (Length = 270')</b>					
170.1. Bridge Layout	2	2		4	\$866.78
170.2. Bridge Detail Summary	2	2		4	\$866.78
170.3. Bridge Structural Details	2	2		4	\$866.78
170.7. Bridge Specifications	2	2		4	\$866.78
<b>Bridge @ Mesa Park (Length = 1805')</b>					
170.1. Bridge Layout	2	2		4	\$866.78
170.2. Bridge Detail Summary	2	2		4	\$866.78
170.3. Bridge Structural Details	2	2		4	\$866.78
<b>Bridge near Executive (Length = 360')</b>					
170.1. Bridge Layout	2	2		4	\$866.78
170.2. Bridge Detail Summary	2	2		4	\$866.78
170.3. Bridge Structural Details	2	2		4	\$866.78
<b>Labor Hours - Subtotal</b>	20	20	0	40	\$8,667.80
<b>Labor Hour Cost</b>	<b>\$267.68</b>	<b>\$165.71</b>	<b>\$101.97</b>		
<b>FC 160(170) - Subtotal</b>	<b>\$5,353.60</b>	<b>\$3,314.20</b>	<b>\$0.00</b>		<b>\$8,667.80</b>
<b>FC 300(351): Design Verif/Changes/Alter</b>					
<b>Construction Phase Services</b>					
1. Attend preconstruction meeting	2	2	2	6	\$1,070.72
2. Make field visit (one site visit)	2	2	2	6	\$1,070.72
3. Review and approval of shop drawings	2	2	2	6	\$1,070.72
4. Responding to requests for information (RFIs)	2	2	2	6	\$1,070.72
5. Providing minor redesign	2	2	2	6	\$1,070.72
6. Answer general questions	2	2	2	6	\$1,070.72
<b>Labor Hours - Subtotal</b>	12	12	12	36	\$6,424.32
<b>Labor Hour Cost</b>	<b>\$267.68</b>	<b>\$165.71</b>	<b>\$101.97</b>		
<b>FC 300(351) - Subtotal</b>	<b>\$3,212.16</b>	<b>\$1,988.52</b>	<b>\$1,223.64</b>		<b>\$6,424.32</b>
<b>Labor Hours Cost - Subtotal</b>	<b>\$35,333.76</b>	<b>\$21,873.72</b>	<b>\$11,012.76</b>		<b>\$68,220.24</b>
<b>Other Direct Expenses - Subtotal</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>		
<b>TOTAL</b>	<b>\$35,333.76</b>	<b>\$21,873.72</b>	<b>\$11,012.76</b>		<b>\$68,220.24</b>

Atkins: Overhead 127.62%, Profit 12%, Multiplier 2.5493



<p>Omega Engineers, Inc</p> <p><b>FEE ESTIMATE SUMMARY</b></p>	
<b>IH-10 WB Frontage Road</b>	
<u>TASK</u>	<u>TOTAL</u>
FC 102(110) - Route and Design Studies	\$ 12,176.46
FC 145 (164) - Project Management and Administration	\$ 29,040.80
FC 160 (150) - Design Surveys and Construction Surveys	\$ 4,493.84
FC 160 (160) - Roadway Design Controls	\$ 66,360.06
FC 160 (161) - Drainage	\$ 60,081.04
FC 160 (162) - Signing, Pavement Markings and Signalization (Permanent)	\$ 18,338.56
FC 160 (163) - Miscellaneous (Roadway)	\$ 64,919.10
FC 160 (170) - Bridge Design	\$ 16,345.06
FC 300 (351) - Construction Phase Services	\$ 14,461.34
Other Direct Expenses	\$ 13,586.00
<b>TOTAL</b>	<b>\$ 299,802.26</b>

IH-10 WB Frontage Road					
CSI: 2121-02-167					
Omega Engineers, Inc					
	Support Manager	Project Engineer	Administrative/ Clerical	Total	Total Labor
<b>FC 102(110): Feasibility Studies - Design Oversight</b>					
<b>Route and Design Studies</b>					
110.1. Data Collection and Field Reconnaissance	6	12		18	\$3,370.38
110.2. Design Criteria	4	12		16	\$2,935.36
110.3. Preliminary Cost Estimates	4	12		16	\$2,935.36
110.4. Design Concept Conference	2	10		12	\$2,156.12
110.5. Geotechnical Borings and Investigations (coordination, review, incorporate)	2	2		4	\$779.24
<b>Labor Hours - Subtotal</b>	<b>18</b>	<b>48</b>	<b>0</b>	<b>66</b>	<b>\$12,176.46</b>
<b>Hourly Rate</b>	<b>\$79.92</b>	<b>\$63.24</b>	<b>\$26.25</b>		
<b>Burden Rate</b>	<b>\$217.51</b>	<b>\$172.11</b>	<b>\$71.44</b>		
<b>FC 102(110) - Subtotal</b>	<b>\$3,915.18</b>	<b>\$8,261.28</b>	<b>\$0.00</b>		<b>\$12,176.46</b>
<b>FC 145 (164): Managing Contracted/Donated PS&amp;E - Design Oversight</b>					
<b>Contract Management and Administration</b>					
a. Coordination with the State/CRRMA	40	40		80	\$15,584.80
b. Prepare monthly written progress reports	16	16	24	56	\$7,948.48
c. Develop and maintain detailed project schedule		16		16	\$2,753.76
d. Prepare, distribute and file written and electronic correspondence		16		16	\$2,753.76
<b>Labor Hours - Subtotal</b>	<b>56</b>	<b>88</b>	<b>24</b>	<b>168</b>	<b>\$29,040.80</b>
<b>Labor Hour Cost</b>	<b>\$217.51</b>	<b>\$172.11</b>	<b>\$71.44</b>		
<b>FC 145 (164) - Subtotal</b>	<b>\$12,180.56</b>	<b>\$15,145.68</b>	<b>\$1,714.56</b>		<b>\$29,040.80</b>
<b>FC 160(150): Roadway Design - Design Oversight</b>					
<b>Design Surveys and Construction Surveys</b>					
150.3.1. Design Surveys	8	16		24	\$4,493.84
<b>Labor Hours - Subtotal</b>	<b>8</b>	<b>16</b>	<b>0</b>	<b>24</b>	<b>\$4,493.84</b>
<b>Labor Hour Cost</b>	<b>\$217.51</b>	<b>\$172.11</b>	<b>\$71.44</b>		
<b>FC 160(150) - Subtotal</b>	<b>\$1,740.08</b>	<b>\$2,753.76</b>	<b>\$0.00</b>		<b>\$4,493.84</b>
<b>FC 160(160): Roadway Design - Design Oversight</b>					
<b>Roadway Design Controls</b>					
160.1. Geometric Design	22	32		54	\$10,292.74
160.2. Roadway Design	34	48		82	\$15,656.62
160.3. Typical Sections	34	40		74	\$14,279.74
160.7. Cut and Fill Quantities	12	16		28	\$5,363.88
160.8. Plan Preparation	16	20		36	\$6,922.36
160.10. Pavement Design	12	16		28	\$5,363.88
160.11. Pedestrian and Bicycle Facilities	20	24		44	\$8,480.84
<b>Labor Hours - Subtotal</b>	<b>150</b>	<b>196</b>	<b>0</b>	<b>346</b>	<b>\$66,360.06</b>
<b>Labor Hour Cost</b>	<b>\$217.51</b>	<b>\$172.11</b>	<b>\$71.44</b>		
<b>FC 160(160) - Subtotal</b>	<b>\$32,626.50</b>	<b>\$33,733.56</b>	<b>\$0.00</b>		<b>\$66,360.06</b>
<b>FC 160(161): Roadway Design - Design Oversight</b>					
<b>Drainage</b>					
161.1. Data Collection	18	24	8	50	\$8,617.34
161.2. Hydrologic Studies - incl. Hist. Tidal Research	26	40		66	\$12,539.66
161.6. Complex Hydraulic Design and Documentation	30	40		70	\$13,409.70
161.7. Scour Analysis	26	40		66	\$12,539.66
161.9. PS&E Development for Hydraulic Sheets	28	40		68	\$12,974.68
<b>Labor Hours - Subtotal</b>	<b>128</b>	<b>184</b>	<b>8</b>	<b>320</b>	<b>\$60,081.04</b>
<b>Labor Hour Cost</b>	<b>\$217.51</b>	<b>\$172.11</b>	<b>\$71.44</b>		
<b>FC 160(161) - Subtotal</b>	<b>\$27,841.28</b>	<b>\$31,668.24</b>	<b>\$571.52</b>		<b>\$60,081.04</b>
<b>FC 160(162): Roadway Design - Design Oversight</b>					
<b>Signing, Pavement Markings and Signalization (Permanent)</b>					
162.1. Signing	16	24		40	\$7,610.80
162.2. Pavement Marking	24	32		56	\$10,727.76
<b>Labor Hours - Subtotal</b>	<b>40</b>	<b>56</b>	<b>0</b>	<b>96</b>	<b>\$18,338.56</b>
<b>Labor Hour Cost</b>	<b>\$217.51</b>	<b>\$172.11</b>	<b>\$71.44</b>		
<b>FC 160(162) - Subtotal</b>	<b>\$8,700.40</b>	<b>\$9,638.16</b>	<b>\$0.00</b>		<b>\$18,338.56</b>
<b>FC 160(163): Roadway Design - Design Oversight</b>					
<b>Miscellaneous (Roadway)</b>					
163.1. Utility Engineering and Coordination	14	22	8	44	\$7,403.08
163.2. Retaining Walls and Miscellaneous Structures (MSE (fill) & Soil Nail (cut) Walls)	14	18		32	\$6,143.12
163.3. Traffic Control Plan, Detours, Sequence of Construction	32	42		74	\$14,188.94
163.5. Illumination	16	22		38	\$7,266.58
163.6. Storm Water Pollution Prevention Plans (SW3P)	8	18		26	\$4,838.06
163.7. Compute and Tabulate Quantities (4 submittals)	12	20		32	\$6,052.32
163.11. Estimate	16	20		36	\$6,922.36
163.12. Contract Time Determination	12	20		32	\$6,052.32
163.13. Specifications and General Notes	12	20		32	\$6,052.32
<b>Labor Hours - Subtotal</b>	<b>136</b>	<b>202</b>	<b>8</b>	<b>346</b>	<b>\$64,919.10</b>
<b>Labor Hour Cost</b>	<b>\$217.51</b>	<b>\$172.11</b>	<b>\$71.44</b>		
<b>FC 160(163) - Subtotal</b>	<b>\$29,581.36</b>	<b>\$34,766.22</b>	<b>\$571.52</b>		<b>\$64,919.10</b>
<b>FC 160(170): Roadway Design - Design Oversight</b>					
<b>Bridge Design</b>					
<b>Bridge Widening at Arroyo #1 (Length = 270')</b>					
170.1. Bridge Layout	4	6		10	\$1,902.70
170.2. Bridge Detail Summary	4	6		10	\$1,902.70
170.3. Bridge Structural Details	2	4		6	\$1,123.46
170.7. Bridge Specifications	4	6		10	\$1,902.70
<b>Bridge @ Mesa Park (Length = 1805')</b>					
170.1. Bridge Layout	4	6		10	\$1,902.70
170.2. Bridge Detail Summary	4	6		10	\$1,902.70
170.3. Bridge Structural Details	4	6		10	\$1,902.70
<b>Bridge near Executive (Length = 360')</b>					
170.1. Bridge Layout	4	6		10	\$1,902.70
170.2. Bridge Detail Summary	2	3		5	\$951.35
170.3. Bridge Structural Details	2	3		5	\$951.35
<b>Labor Hours - Subtotal</b>	<b>34</b>	<b>52</b>	<b>0</b>	<b>86</b>	<b>\$16,345.06</b>
<b>Labor Hour Cost</b>	<b>\$217.51</b>	<b>\$172.11</b>	<b>\$71.44</b>		
<b>FC 160(170) - Subtotal</b>	<b>\$7,395.34</b>	<b>\$8,949.72</b>	<b>\$0.00</b>		<b>\$16,345.06</b>
<b>FC 300(351): Design Verif/Changes/Alter</b>					
<b>Construction Phase Services</b>					
1. Attend preconstruction meeting	2	2		4	\$779.24
2. Make field visit (one site visit)	4	4		8	\$1,558.48
3. Review and approval of shop drawings	8	12		20	\$3,805.40
4. Responding to requests for information (RFIs)	8			8	\$1,740.08
5. Providing minor redesign	6	8		14	\$2,681.94
6. Answer general questions	10	10		20	\$3,896.20
<b>Labor Hours - Subtotal</b>	<b>38</b>	<b>36</b>	<b>0</b>	<b>74</b>	<b>\$14,461.34</b>
<b>Labor Hour Cost</b>	<b>\$217.51</b>	<b>\$172.11</b>	<b>\$71.44</b>		
<b>FC 300(351) - Subtotal</b>	<b>\$8,265.38</b>	<b>\$6,195.96</b>	<b>\$0.00</b>		<b>\$14,461.34</b>
<b>Labor Hours Cost - Subtotal</b>	<b>\$132,246.08</b>	<b>\$151,112.58</b>	<b>\$2,857.60</b>		<b>\$286,216.26</b>
<b>Other Direct Expenses - Subtotal</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>		
<b>TOTAL</b>	<b>\$132,246.08</b>	<b>\$151,112.58</b>	<b>\$2,857.60</b>		<b>\$286,216.26</b>
Omega Engineers, Inc: Overhead 143%, Profit 12%, Multiplier 2.7216					

	IH-10 WB Frontage Road				
	CSJ: 2121-02-167				
	Omega Engineers, Inc				
	<b>Other Direct Costs</b>				
OMEGA	Lodging/Hotel - Taxes and Fees	day/person	\$45.00	6	270.00
OMEGA	Lodging/Hotel (Taxes/fees not included)	day/person	\$98.00	6	588.00
OMEGA	Meals (Excluding alcohol & tips) (Overnight stay required)	day/person	\$59.00	12	708.00
OMEGA	Mileage	mile	\$0.655	2,000	1,310.00
OMEGA	Rental Car Fuel	gallon	\$5.00	50	250.00
OMEGA	Rental Car (Includes taxes and fees; Insurance costs will not be reimbursed)	day	\$100.00	8	800.00
OMEGA	Air Travel - In State - Short Notice (Coach)	RdTrip/Person	\$950.00	8	7,600.00
OMEGA	Parking	day	\$30.00	8	240.00
OMEGA	Toll Charges	each	\$5.00	4	20.00
OMEGA	Photocopies B/W (11" X 17")	each	\$0.20	1,000	200.00
OMEGA	Photocopies B/W (8 1/2" X 11")	each	\$0.10	1,500	150.00
OMEGA	Photocopies Color (11" X 17")	each	\$1.50	500	750.00
OMEGA	Photocopies Color (8 1/2" X 11")	each	\$0.75	500	375.00
OMEGA	512 MB Flash Drive	each	\$50.00	1	50.00
OMEGA	Report Printing	each	\$50.00	5	250.00
OMEGA	Report Binding and tabbing	each	\$5.00	5	25.00
				<b>Sub-Total</b>	<b>13,586.00</b>

[END OF EXHIBIT]

**EXHIBIT C**  
**Invoice Reimbursement Checklist**

**Direct Labor/Timesheets:** The invoice must clearly identify each employee name, title, hours worked, date of performance, task or project description, rate per hour and/or cost, and office/company location.

**Transportation Costs and Reimbursable Limits:** Efforts must be made to secure a *reasonable* and/or lowest rate available in the marketplace.

**Airline Costs:** Authority will only reimburse for airline costs at the Economy or Coach Class rate. Extra insurance and luggage costs are unallowable. Airline ticket “reissue fee” is reimbursable only if the change was at Authority’s request or change in meeting because of Authority.

**Personal Automobile Mileage:** Up to the state approved rate of **62.5 cents** per mile or the **current state rate** applicable at the time cost is incurred. Expense report must clearly identify the departure/arrival time, To/From destinations and purpose of trip.

**Automobile Rentals:** Not to exceed **\$50.00 per day** plus applicable taxes or **current state rate**. Extra optional insurance or rental company gasoline costs are unallowable. Weekly or Monthly rates should be used when applicable. Upgrades beyond economy-sized require an explanation. Use of automobile rental not related to the project is unallowable.

**Hotel Rates:** Weekly and Monthly rates are encouraged and expected when applicable. Reimbursable costs shall not exceed **\$98.00 per day** plus applicable city/state/county taxes or **current state rate** applicable at the time cost is incurred.

**Meals (Food Costs):** Meal receipts are not required. Actual costs are allowable up to a maximum Per Diem allowance of **\$64.00 per day or current state rate** applicable at the time cost is incurred. Meals are only reimbursable with overnight lodging away from headquarters. *Tips and alcohol are not reimbursable. Per meal maximums for partial day travel are as follows: **Breakfast \$14.00, Lunch \$16.00, Dinner \$29.00 & \$5.00 incidental expenses and are adjusted proportionately to a change in the current state rate.***

**Other - Taxi, Bus, Limousine, Subway, etc.:** Only reasonable and prudent costs (with explanations) are reimbursable. *Tips are not reimbursable.*

**Entertainment Costs:** Entertainment costs are not reimbursable, including: 1. Movie costs for “Pay for View” or Cable service. 2. Alcohol costs. 3. Monetary Tips (tipping) for any and all services related to all forms of travel (and/or entertainment).

**Communication Costs:** Long Distance telephone calls need to be identified and strictly related to work performed under this Agreement in order to be reimbursable by Authority. A log is preferred showing the date, person’s name called, and explanation. Cell phone monthly charges are reimbursable if usage is strictly related to work performed under this Agreement. Legible itemized cell phone records are required.

**Receipts:** Legible itemized receipts are required for the following: 1. Hotel (lodging) costs. 2. Airfare travel costs. 3. Parking costs. 4. Automobile or Equipment Rental costs. 5. Taxi, Limousine, Bus, Subway, or other travel costs. 6. Reproduction. 7. Shipping and Handling. 8. Local Postage/Deliveries (courier services). 9. Communication Costs. *Tips and alcohol are not reimbursable.*

**[END OF EXHIBIT]**