SUMMARY STATEMENT

ITEM NO.: DRPA-19-134

SUBJECT: Design Services for Walt Whitman Bridge Main Cable Investigation and Dehumidification

COMMITTEE: Operations & Maintenance

COMMITTEE MEETING DATE: November 26, 2019

BOARD ACTION DATE: December 11, 2019

PROPOSAL: That the Board authorizes staff to negotiate an agreement with Louis Berger U.S., Inc. to provide Design, Bidding and Award, and Construction Support Services for the Walt Whitman Bridge Main Cable Investigation and Dehumidification.

Amount: $9,699,817.00


Other Consultants: AECOM Technical Services, Inc. Parsons Transportation Group Thornton Tomasetti

Engineers Estimate: $9,203,819.00

MBE/WBE Goals: MBE: 7% WBE: 3%

Consultant Proposed MBE/WBE Commitments: MBE: 7.1% WBE: 45.6%

PURPOSE: To provide consulting engineering services for an investigation of the interior conditions of the main suspension cables, design a dehumidification system, and perform load rating analyses for the suspended spans.

BACKGROUND: This Project will determine the full extent of the deterioration of the cables, cable connections and provide the information necessary to develop proper repair and maintenance procedures. The work includes providing inspection platforms, un-wrapping of various sections on the north and south cables, interior inspection by wedging the parallel wires, sampling of wires and lab testing, re-compacting, re-wrapping the cable sections, analysis and report submission of the cable
investigation based on the NCHRP 534 Report. The report shall include an evaluation, recommendations, statistical analysis of the wire anomalies, estimation of the capacity of the cable, and the factor of safety of the cables based on this inspection and prior inspections. The Project will also require design details and specifications for a complete main cable dehumidification system from anchorage to anchorage.

The Authority publicly advertised its intent to retain a consultant and invited interested firms to submit Statements of Qualifications. Four (4) firms responded with Statements of Qualifications on December 20, 2018. All four (4) firms were deemed qualified and were sent a formal Request for Proposal. A review committee of three (3) staff engineers evaluated the Proposals on the basis of Technical merit.

Louis Berger was the highest technically ranked firm. Louis Berger’s Long Span Bridge Group is one of the country’s leading engineering firms in the rehabilitation of long span bridges. The proposed Project Manager has 27 years’ experience in the design and construction of bridges and has conducted several in-depth main cable inspections. Overall, the team assembled by Louis Berger was found to possess the necessary experience and qualifications to successfully complete the project.

In accordance with the Delaware River Port Authority’s qualification based selection procedure, the Price Proposal was evaluated against the Engineer’s Estimate and that of other recommended firms. Based on this evaluation and subsequent negotiation, Louis Berger’s price was determined to be fair and reasonable.

It is recommended that an engineering services agreement be negotiated with Louis Berger for the costs and associated fees not to exceed $9,699,817.00 to provide engineering services in accordance with the Request for Proposal.

**SUMMARY:**

| Amount: | $9,699,817.00 |
| Source of Funds: | 2018 A Revenue Bonds |
| Capital Project #: | WWB.01707 |
| Operating Budget: | N/A |
| Master Plan Status: | N/A |
| Other Fund Sources: | N/A |
| Duration of Contract: | Design Services, 18 months; Bidding and Award and Construction Support Services, approximately 24 months from issuance of Contractor Notice to Proceed |
| Other Parties Involved: | N/A |
| Estimated Number of Jobs Supported: | 12 |
RESOLUTION

RESOLVED: That the Board of Commissioners of the Delaware River Port Authority accepts the Proposal of Louis Berger to provide Design Services for the Walt Whitman Bridge Main Cable Investigation and Dehumidification and that the proper officers of the Authority be and hereby are authorized to negotiate an Agreement with Louis Berger for an amount not to exceed $9,699,817.00, as per the attached Summary Statement; and be it further

RESOLVED: The Chairman, Vice Chairman and the Chief Executive Officer must approve and are hereby authorized to approve and execute all necessary agreements, contracts, or other documents on behalf of the DRPA. If such agreements, contracts, or other documents have been approved by the Chairman, Vice Chairman and Chief Executive Officer and if thereafter either the Chairman or Vice Chairman is absent or unavailable, the remaining Officer may execute the said document(s) on behalf of DRPA along with the Chief Executive Officer. If both the Chairman and Vice Chairman are absent or unavailable, and if it is necessary to execute the said document(s) while they are absent or unavailable, then the Chief Executive Officer shall execute such documents on behalf of DRPA.

SUMMARY:  
- Amount: $9,699,817.00
- Source of Funds: 2018 A Revenue Bonds
- Capital Project #: WWB.01707
- Operating Budget: N/A
- Master Plan Status: N/A
- Other Fund Sources: N/A
- Duration of Contract: Design Services, 18 months; Bidding and Award and Construction Support Services, approximately 24 months from issuance of Contractor Notice to Proceed
- Other Parties Involved: N/A
- Estimated Number of Jobs Supported: 12
The Request for Qualifications (RFQs), which was posted on the Authority’s web-site, invited consultants to submit Statements of Qualifications (SOQs). Four (4) firms submitted SOQs on December 20, 2018.

Policy 303a outlines the procedure for Request for Proposal selection of consultants by the Engineering Department. The SOQ evaluation serves as a method for developing a “short list” of firms to receive a Request for Proposal (RFP). The Review Committee evaluated the SOQ’s and recommended soliciting Technical and sealed Price Proposals from all four firms:

AECOM Technical Services, Inc.
Louis Berger U.S., Inc.
Parsons Transportation Group
Thornton Tomasetti.

The short listed firms were sent a RFP on July 8, 2019. The Technical Proposals and separate sealed Price Proposals were received on August 15, 2019 from four firms. The Review Committee, consisting of three (3) staff engineers, reviewed and evaluated the Technical Proposals.

Louis Berger was the highest technically ranked firm. Louis Berger’s Long Span Bridge Group is one of the country’s leading engineering firms in the rehabilitation of long span bridges. The proposed Project Manager, has 27 years experience in the design and construction of bridges and has conducted several in-depth main cable inspections. Overall, the team assembled by Louis Berger was found to possess the necessary experience and qualifications to successfully complete the project.

The Review Committee recommended that the Price Proposal be opened and negotiations commence using other recommended firm’s Price Proposals and the Engineer’s Estimate in the amount of $9,203,819.00, as a guide. Price Proposals were opened on October 9, 2019.

The Technical Proposal rankings, proposed hours and fees of these firms, along with the Engineer’s estimate of hours are shown in the following table.
<table>
<thead>
<tr>
<th>Rank</th>
<th>Firm</th>
<th>Hours</th>
<th>Original Price Proposal</th>
<th>Negotiated Hours</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Engineer’s Estimate</td>
<td>23,000</td>
<td>$9,200,000.00</td>
<td></td>
<td></td>
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<tr>
<td>1</td>
<td>Louis Berger</td>
<td>24,656</td>
<td>$9,997,716.30</td>
<td>24,656</td>
<td>$9,699,816.64</td>
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<td>2</td>
<td>AECOM</td>
<td>18,779</td>
<td>$16,938,124.91</td>
<td></td>
<td></td>
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<tr>
<td>3</td>
<td>Thornton Tomasetti</td>
<td>22,799</td>
<td>$9,952,303.72</td>
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</tbody>
</table>

The Price Proposal from the highest technically ranked firm, Louis Berger, dated August 15, 2019 was reviewed by Engineering Department staff. The total cost was observed to be 8.7% higher than the Engineer’s Estimate. This was a result of Louis Berger’s estimated hours, average hourly rate, and contractor support cost all being higher than the Engineer’s Estimate. Negotiations commenced which resulted in a final Price Proposal in an amount of $9,699,816.64. Based on the Review Committee’s findings the Price Proposal of Louis Berger has been determined to be fair and reasonable and therefore the committee recommends that an Engineering Services Agreement be issued to the highest technically ranked firm, Louis Berger.

Based on a review of the Review Committee’s evaluation and supporting documentation, I concur with the recommendation to engage Louis Berger of New York, NY in the amount of $9,699,817.00 for this Agreement.