

MOTION NO. M2012-48
Systems Engineering Final Design for East Link

MEETING:	DATE:	TYPE OF ACTION:	STAFF CONTACT:	PHONE:
Capital Committee	07/12/12	Recommendation to Board	Ahmad Fazel, DECM Executive Director	206-398-5389
Board	07/26/12	Final Action	Ron Lewis, Executive Project Director, East Link Justin Garrod, Senior Systems Engineer	206-689-4905 206-398-5384

PROPOSED ACTION

Authorizes the chief executive officer to execute a contract with LTK Engineering Services, LLC to provide systems engineering final design services for East Link for a total authorized contract amount not to exceed \$17,707,707.

KEY FEATURES

- The scope of work includes systems final design (signals, traction power, and communication), integration of systems elements with civil design, contract packaging, and development of design and systems construction schedules.
- The systems design consultant will work with agency staff and the two civil final design consultants to ensure a seamless design throughout the project from downtown Seattle to the Overlake Transit Center in the City of Redmond.
- The systems design consultant will participate in cost savings workshops, coordinate design requirements with the Washington State Department of Transportation (WSDOT) on the I-90 floating bridge and pass through two WSDOT tunnels as well as various other third party requirements necessary to complete the final design effort.

PROJECT DESCRIPTION

East Link extends light rail to east King County via I-90 from downtown Seattle to downtown Bellevue and the Overlake area of Redmond, with stations serving Rainier Avenue/I-90, Mercer Island, South Bellevue, Downtown Bellevue, Overlake Hospital, the Bel-Red Corridor, Overlake Village, and the Overlake Transit Center. The ST2 plan provides for environmental review for a future expansion between the Overlake Transit Center and downtown Redmond. The East Link project route, profiles, and station locations, including the tunnel route in downtown Bellevue, were selected by the Sound Transit Board on July 28, 2011. Revenue service between Seattle and the Overlake Transit Center is forecast for early 2023.

FISCAL INFORMATION

East Link	2012 TIP	Board Approvals	This Action	Board Approved Plus Action	Uncommitted / (Shortfall)
Agency Administration	66,539	11,106	0	11,106	55,433
Preliminary Engineering	61,123	55,168	0	55,168	5,955
Final Design	223,685	4,800	17,708	22,508	201,177
Right of Way	365,408	14,609	0	14,609	350,799
Construction	0	0	0	0	0
Construction Services	0	0	0	0	0
Third Party Agreements	40,064	3,875	0	3,875	36,189
Vehicles	0	0	0	0	0
Total Current Budget	756,819	89,557	17,708	107,265	649,554

Phase Detail

Final Design Phase

Systems FD	29,500	0	17,708	17,708	11,792
Other Phase Work	194,185	4,800	0	4,800	189,385
Total Phase	223,685	4,800	17,708	22,508	201,177

LTK Engineering Services, LLC

Contract Detail

	Board Approvals to Date	Current Approved Contract Status	Proposed Action	Proposed Total for Board Approval
Contract Amount	0	0	17,708	17,708
Contingency	0	0	0	0
Total	0	0	17,708	17,708
Percent Contingency	-	-	0%	0%

Notes:

Amounts are expressed in Year of Expenditure \$000s.

Board Approvals to Date includes amounts through May 31st 2012, plus any pending Board Actions.

Project Budget is located on page 47 of the 2012 Transit Improvement Plan (TIP).

Board Approvals = Committed to-date + Contingency.

SMALL BUSINESS PARTICIPATION

Sound Transit Goal:

Small Business: 10.5%

DBE: 3%

Commitment:

Small Business: 34.03%

DBE: 33.28%

Subconsultant/Subcontractor	Business Type	% of Work	Dollar Value
Cite Specific	DBE	0.53%	\$93,085
Hatfield and Dawson	Small Business	0.75%	\$133,642
Moniz Art & Architecture	DBE	1.81%	\$321,045
Pacific Communication Consultants	DBE	0.29%	\$50,563
Romar + 7	DBE	5.90%	\$1,044,234
Systems Consulting, LLC	DBE	1.49%	\$263,629
Triunity Engineering & Management	DBE	19.38%	\$3,431,455
Virginkar & Associates, Inc.	DBE	2.41%	\$426,105
YSM Solutions	DBE	1.48%	\$262,875
Total		34.03%	\$6,026,635

EQUAL EMPLOYMENT WORKFORCE PROFILE

293 employees; 21% women; 15% minorities

BACKGROUND

Sound Transit initiated East Link environmental and preliminary engineering work in 2006 and completed the work in 2011. The East Link final environmental impact statement was published in July 2011 and the Federal Transit Administration issued a Record of Decision for the project on November 16, 2011. The project route, profiles, and station locations were selected by the Sound Transit Board on July 28, 2011. On November 17, 2011, the Sound Transit Board authorized East Link to advance into final design.

The final design for the civil and architectural elements of the project will be developed in two design contracts. There will be a separate design contract for the systems elements, which will be for the entire alignment. The systems final design will include design of the train signal system with special emphasis on the possible joint use portion of the right of way. Additional elements will include design of traction power substations, overhead catenary systems, communication systems and supervisory control and data acquisition (SCADA) systems. The design team will work collaboratively with the civil designers and WSDOT to coordinate design elements across the I-90 floating bridge and through the two WSDOT (Mt. Baker and Mercer Island) tunnels. The communications and SCADA system designers will coordinate with agency staff and both civil designers to facilitate siting and routing of the equipment throughout the stations.

A request for qualifications (RFQ) was advertised on February 29, 2012. Two statements of qualifications (SOQ) were submitted by interested teams. The SOQs were reviewed and evaluated for responsiveness to the criteria in the RFQ. LTK Engineering Services, LLC was deemed most qualified.

PRIOR BOARD/COMMITTEE ACTIONS

Not applicable to this action.

ENVIRONMENTAL COMPLIANCE

Environmental compliance pursuant to the State Environmental Policy Act (SEPA) for East Link was completed with the East Link Project Final Environmental Impact Statement (EIS) issued on July 15, 2011. The Federal Transit Administration and Federal Highway Administration issued a Record of Decision for the project on November 16, 2011 and November 17, 2011, respectively, completing the National Environmental Policy Act (NEPA) process.

JI 6/29/2012

TIME CONSTRAINTS

A one month delay would not significantly impact this contract.

PUBLIC INVOLVEMENT

Not applicable to this action.

LEGAL REVIEW

LA 7/5/12

MOTION NO. M2012-48

A motion of the Board of the Central Puget Sound Regional Transit Authority authorizing the chief executive officer to execute a contract with LTK Engineering Services, LLC to provide systems engineering final design services for East Link for a total authorized contract amount not to exceed \$17,707,707.

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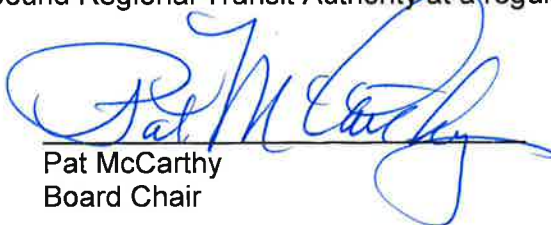
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MOTION:

It is hereby moved by the Board of the Central Puget Sound Regional Transit Authority that the chief executive officer is authorized to execute a contract with LTK Engineering Services, LLC to provide systems engineering final design services for East Link for a total authorized contract amount not to exceed \$17,707,707.

APPROVED by the Board of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on July 26, 2012.


Pat McCarthy
Board Chair

ATTEST:



Marcia Walker
Board Administrator