

**SOUND TRANSIT
STAFF REPORT**

MOTION NO. M2004-90

Contract Award for Central Link Light Rail Initial Segment Traction Electrification

Meeting:	Date:	Type of Action:	Staff Contact:	Phone:
Finance Committee	9/2/04	Discussion, Possible Recommendation for Board Approval	Ahmad Fazel, Link Director Robert Parsons, Link Civil Engineering/Acting Systems Manager	(206) 398-5389 (206) 398-5150
Board	9/9/04	Discussion/possible Action		

Contract/Agreement Type:	✓	Requested Action:	✓
Competitive Procurement	✓	Execute New Contract/Agreement	✓
Sole Source		Amend Existing Contract/Agreement	
Interagency Agreement		Contingency Funds (Budget) Required	
Purchase/Sale Agreement		Budget Amendment Required	

✓ *Applicable to proposed transaction.*

ACTION

Authorizes the Chief Executive Officer to execute a contract with Mass Electric Construction Co. to engineer, manufacture, furnish, install, and test the power supply system for the Central Link Light Rail Initial Segment in the amount of \$36,414,379 with a 7% contingency of \$2,549,006 for a total authorized contract amount not to exceed \$38,963,386.

KEY FEATURES

- This contract includes the engineering, manufacturing, furnishing, installation, and testing of the power supply system for the light rail line between Convention Place Station and South 154th Street. Specifically, the contract scope of work includes:
 - engineering, manufacturing, furnishing, and installation of eleven traction power substations and one tie Station;
 - engineering, manufacturing, furnishing, and installation of an overhead contact system (OCS) rated 1500 Volts DC;
 - furnishing and installation of control and power cables;
 - performing comprehensive testing of the complete traction electrification system; and
 - furnishing and installation of one standby emergency generator.

- Staff recommends establishment of a 7% contingency for this contract as an allowance for changes encountered during performance of this work. This level of contingency is consistent with the risk assumption applied to this scope in the development of the baseline project budget.

- The contract scope of work includes art enhancement for selected OCS poles in the Rainier Valley and in the operations and maintenance facility. These art features are incorporated into the pole fabrication contract to reduce handling costs. These elements in the amount of \$257,054 are funded under and will be coordinated through the Sound Transit Art Program (STart).

BUDGET IMPACT SUMMARY

Project Description: Central Link Initial Segment

Current Status: Final Design/Construction

Projected Completion Date: 2009

Action Outside of Adopted Budget:	Y/N	Y Requires Comment
This Line of Business	Y	Includes artwork to be funded through the SStart program
This Project	N	
This Phase	N	
Budget amendment required	N	
Key Financial Indicators:	Y/N	Y Requires Comment
Contingency funds required	N	
Subarea impacts	N	
Funding required from other parties other than what is already assumed in financial plan	N	

N = Action is assumed in current Board-adopted budget. Requires no budget action or adjustment to financial plan

BUDGET DISCUSSION

This action will authorize execution of a contract with Mass Electric Construction Co. to engineer, manufacture, furnish, install, and test a Traction Power System for the entire Link Light Rail Initial Segment for a total authorized amount not to exceed \$38,963,386. This includes \$257,054 for art elements that will be funded through the SStart program. Expenditures in the amount of \$38,706,332 would be funded under the Link Initial Segment budget.

The adopted capital budget for the Central Link Initial Segment is \$2.07 billion. Within that budget, \$42,860,000 is set aside for the traction power contract in the construction phase. Should the proposed action be approved, a balance of \$4,153,668 will remain for this budget line item.

REVENUE, SUBAREA, AND FINANCIAL PLAN IMPACTS

The proposed action is consistent with the current board adopted budget, and is affordable within the agency's current long-term financial plan and subarea financial capacity. The action will have no new revenue impact on Sound Transit.

BUDGET TABLE

Action Item: Mass Electric Construction Co. (Design, furnish, install and test a traction power system (C807) for the entire alignment of the Central Link Initial Segment)

(Year of Expenditure \$000)

Initial Segment	Amended FY2004 Budget (A)	Committed To Date (B)	This Action (C)	Total Committed & Action (D)	Uncommitted (Shortfall) (E)
1 Agency Administration	218,780	110,561		110,561	108,219
2 Preliminary Engineering	35,000	33,643		33,643	1,357
3 Final Design	143,523	138,049		138,049	5,475
4 Right of Way	233,016	155,596		155,596	77,420
5 Construction	1,159,837	670,731	38,706	709,437	450,399
6 Construction Services	82,737	78,769		78,769	3,968
7 Third Party Agreements	58,800	52,474		52,474	6,326
8 Vehicles	138,307	132,244		132,244	6,063
9 Total Current Budget	2,070,000	1,372,069	38,706	1,410,775	659,225

Phase Budget Detail

10 Traction Power (C807)	42,860	-	38,706	38,706	4,154
13 Other Systemwide Construction	88,596	200		200	88,396
14 Other Construction Segments	1,028,381	670,531		670,531	357,850
15 Total Phase	1,159,837	670,731	38,706	709,437	450,399

(A) AMENDED 2004 BUDGET reflects Board Resolution R2004-05 for Initial Segment phase budget transfer, adopted by the ST Board on 4/22/04.

(B) COMMITTED TO DATE amounts are from the Program Cost Summary Report (HQ Reports) as of July 2004.

STart Budget	Adopted FY2004 Budget (A)	Committed To Date (B)	This Action (C)	Total Committed & Action (D)	Uncommitted (Shortfall) (E)
16 Accounts to be changed:					
17 STart North King County	7,591	1,705	257	1,962	5,629
18 Total Phase	7,591	1,705	257	1,962	5,629

Contract Budget	Board Approvals to Date (F)	Current Approved Contract Value (G)	Proposed Action (H)	Proposed Total for Board Approval (I)	Proposed Contract Value (J)
19 Contract Amount			36,174	36,174	36,174
20 Contingency			2,532	2,532	2,532
21 Total Link Initial Segment	-	-	38,706	38,706	38,706
22 ST art			240	240	240
23 ST art contingency			17	17	17
24 Total ST art	-	-	257	257	257
25 Total Contract Amount	-	-	36,414	36,414	36,414
26 Total Contingency	-	-	2,549	2,549	2,549
27 TOTAL Including ST art	-	-	38,963	38,963	38,963
28 Percent Contingency	0%	0%	7%	7%	7%

M/W/DBE – SMALL BUSINESS PARTICIPATION

Prime Contractor

Sound Transit established the following goals for this contract in the Invitation for Bid (IFB): 9% of the total contract price for Small Business participation, to be accomplished utilizing M/W/DBE participation of at least 6%. At time of bid, the contractor was required to list M/W/DBE and Small Business participation totaling at least half of the goal. The remaining portion of M/W/DBE and Small Business participation is to be achieved over the life of the project.

Mass Electric has committed to work with Sound Transit and use good faith efforts to meet or exceed the overall Small Business and M/W/DBE Participation Goals of 9% and 6% respectively.

Initial Utilization Breakdown Table

Subconsultant	Business Type	% of Work	Dollar Value
Monterrey Electric	MBE/DBE	2.53%	\$921,284
Mobile Electric Distributor, Inc.	WBE/DBE	0.66%	\$240,000
Burke Electric, LLC	Small Business	1.84%	\$669,912
Total		5.03%	\$1,831,196

EEO Commitment

Mass Electric Construction Co. workforce demographics are 5.2 % women and 11.7 % people of color.

Apprentice Utilization Commitment

Mass Electric Construction Co. has committed to meet the 20% Apprentice Utilization Goal as stated in the IFB and has provided a draft plan and signed commitment. Sound Transit will work with Mass Electric Construction Co. during the pre-construction phase to further develop a program for apprentice utilization.

HISTORY OF PROJECT

Prior Board or Committee Actions and Relevant Board Policies

Motion or Resolution Number	Summary of Action	Date of Action
R2001-16	Selected the initial segment of the Central Link Light Rail Project to be constructed and operated by 2009.	11/29/01

A two-step procedure was used for this procurement. A request for technical proposals was issued on December 31, 2003. Staff evaluated the technical proposals submitted by five firms, and determined that three technical proposals were acceptable. Two firms were determined to be unacceptable for financial and/or technical reasons. An Invitation for Bid was issued on June 10, 2004 to the three qualified firms. On July 29, 2004, Sound Transit received bids from all

three firms. The apparent low bid was submitted by Mass Electric Construction Co. in the amount of \$36,414,379. The other two bids were in the amounts of \$41,749,100 and \$45,975,290. Sound Transit's engineer's estimate was \$41,189,100. Staff evaluated the bids, which included an evaluation conference with Mass Electric Construction Co., and determined that Mass Electric Construction Co. was the lowest responsive and responsible bidder.

All required environmental compliance to support the Board's approval of this contract has been completed.

CONSEQUENCES OF DELAY

Timely award of this contract is required to ensure that traction power substations and overhead contact hardware are available and installed at the Operations and Maintenance Facility when vehicles begin to arrive. Testing of vehicles is required to meet contractual obligations and overall schedule.

PUBLIC INVOLVEMENT

Not applicable to this action.

LEGAL REVIEW

JW 8/19/04

SOUND TRANSIT

MOTION NO. M2004-90

A motion of the Board of the Central Puget Sound Regional Transit Authority authorizing the Chief Executive Officer to execute a contract with Mass Electric Construction Co. to engineer, manufacture, furnish, install, and test the power supply system for the Central Link Light Rail Initial Segment in the amount of \$36,414,379 with a 7% contingency of \$2,549,006 for a total authorized contract amount not to exceed \$38,963,386.

Background:

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- performing comprehensive testing of the complete traction electrification system; and
- furnishing and installation of one standby emergency generator.

Sound Transit utilized a qualifications-based procurement process for this contract. Five contractors submitted technical proposals in response to Sound Transit's request for proposals issued in December 2003. Three contractors were determined to be qualified and were invited to submit bids. All three qualified contractors submitted bids on July 29, 2004. Mass Electric Construction Co. submitted the lowest bid and was determined to be responsive and responsible.

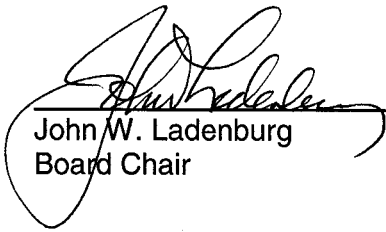
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Motion:


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 Mass Electric Construction Co. to execute a contract with Mass Electric Construction Co. to engineer, manufacture, furnish, install, and test the power supply system for the Central Link Light Rail Initial Segment in the amount of \$36,414,379 with a 7% contingency of \$2,549,006 for a total authorized contract amount not to exceed \$38,963,386.

APPROVED by the Board of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on September 9, 2004.



John W. Ladenburg
Board Chair

ATTEST:



Jane Emerson
Board Coordinator