

MOTION NO. M2010-40
Noise and Vibration Consultant Services for Link Light Rail Initial Segment

MEETING:	DATE:	TYPE OF ACTION:	STAFF CONTACT:	PHONE:
Capital Committee	4/8/10	Final Action	Ahmad Fazel, DECM Executive Director James Irish, Deputy Director Environmental Affairs	206-398-5389 206-398-5140

PROPOSED ACTION

Authorizes the chief executive officer to execute a contract amendment with Michael Minor Associates to provide additional noise and vibration consultant services for the Central Link Initial Segment project in the amount of \$224,948, with a 10% contingency of \$22,495 totaling \$247,443, for a new total authorized contract amount not to exceed \$447,183.

KEY FEATURES

- This action amends the existing contract with Michael Minor Associates to provide continued and additional noise and vibration monitoring in Tukwila and Rainier Valley, mitigation testing and development, reference noise measurements of the light rail vehicle, wheel-rail interface analysis, and on-call services.

PROJECT DESCRIPTION

The 14-mile Initial Segment of the Central Link light rail line has a northern terminus in the Pine Street Stub Tunnel (PSST), with passenger service beginning at Westlake Station serving downtown Seattle, the SODO industrial area, Beacon Hill, Rainier Valley, and Tukwila. Passenger stations include Westlake, University Street, Pioneer Square, International District/Chinatown, Stadium, SODO, Beacon Hill, Mount Baker, Columbia City, Othello, Rainier Beach, and Tukwila International Boulevard. The Operations and Maintenance Facility and Yard is located south of South Forest Street.

FISCAL INFORMATION

Action Item: Michael Minor Associates (Provide noise and vibration consultant services for the Central Link Initial Segment project)

(Year of Expenditure \$000)

Initial Segment	Adopted 2010 Budget (A)	Committed To Date (B)	This Action (C)	Total Committed & Action (D)	Uncommitted (Shortfall) (E)
Agency Administration	186,233	181,269		181,269	4,964
Preliminary Engineering	33,289	33,287		33,287	3
Final Design	147,436	147,091		147,091	344
Right of Way	205,713	204,448		204,448	1,264
Construction	1,198,822	1,171,403	247	1,171,651	27,171
Construction Services	104,912	105,404		105,404	(492)
Third Party Agreements	61,739	62,607		62,607	(869)
Vehicles	131,857	131,803		131,803	54
Total Current Budget	2,070,000	2,037,313	247	2,037,561	32,439

Construction Phase Detail

Other Miscellaneous Construction	9,406	7,946	247	8,194	1,212
Other Construction	1,189,416	1,163,457		1,163,457	25,959
Total Phase	1,198,822	1,171,403	247	1,171,651	27,171

Contract Amount	Board Approvals to Date (F)	Current Approved Contract Value (G)	Proposed Action (H)	Proposed Total for Board Approval (I)	Proposed Contract Value (J)
Contract Amount	182	182	225	407	407
Contingency	18	18	22	41	41
Total Contract	200	200	247	447	447
Percent Contingency	10%	10%	10%	10%	10%

(B) COMMITTED TO DATE amounts are from Agency WBS Report as of January 2010 + approved and pending board actions not recorded as of 1/31/10, or submitted after that date, and include allocated contingencies.

(1) "SHORTFALL" to the Adopted 2010 Budget for Construction Services phase of the Initial Segment project: "Committed to Date" amount shown here includes unused funds authorized for allocated contract contingencies that will be decommitted as these contracts complete.

(2) "SHORTFALL" to the Adopted 2010 Budget for Third Party Agreements phase of the Initial Segment project: "Committed to Date" amount shown here includes unused funds authorized for allocated contract contingencies that will be decommitted as these contracts complete.

SMALL BUSINESS PARTICIPATION

Sound Transit Goal: 18.5%

Committed goal: 87%

Subconsultant/Subcontractor	Business Type	% of Work	Dollar Value
ATS consulting	Small Business	34%	\$76,040
Total		34%	\$76,040

EQUAL EMPLOYMENT WORKFORCE PROFILE

The consultant team has 10 employees; including 20% women and 20% minorities.

BACKGROUND

The consultant firm Michael Minor Associates was hired through a competitive procurement process in April 2009 to provide noise and vibration consultant services for the Central Link Initial Segment and Airport Link. The original contract amount was for \$151,830. The contract amount was increased to \$199,740 to provide additional services within the original scope of work. Since then, investigation of complaints, field monitoring and analysis of these issues has used up the existing contract budget. Additional consultant support is necessary to properly respond to and evaluate the remaining issues, design and test mitigation measures, and provide follow-up measurements to confirm the effectiveness of new mitigation measures.

The consultant was originally hired to respond to noise and vibration complaints, provide noise monitoring, and develop noise mitigation measures for the Initial Segment. This proposed action will provide additional noise and vibration monitoring, analysis and mitigation development services for the Initial Segment operational noise issues. Specific tasks include two years of noise and vibration monitoring and analysis in the City of Tukwila, a wheel-rail interface study, on-call services to respond to complaints, support mitigation design development, attend meetings, and provide technical support as needed.

Noise complaints and noise levels exceeding the federal criteria from operation of the Initial Segment have been much more extensive than anticipated when the original contract was developed in spring 2009 before the system opened for revenue service. Unanticipated issues include wheel squeal on curves, crossover switch noise, vehicle and street crossing warning bells, high frequency wheel-rail noise, and overall higher noise levels than predicted in some areas. Investigation of complaints, field monitoring and analysis of these issues has used up the existing contract budget. Additional consultant support is necessary to properly respond to and evaluate the remaining issues, design and test mitigation measures, and provide follow-up measurements to confirm the effectiveness of new mitigation measures.

ENVIRONMENTAL COMPLIANCE

Jl 3/25/2010

TIME CONSTRAINTS

A delay in approving this action will affect the capability to continue investigating noise and vibration issues and develop appropriate mitigation measures.

LEGAL REVIEW

LA 4/2/10

MOTION NO. M2010-40

A motion of the Capital Committee of the Central Puget Sound Regional Transit Authority authorizing the chief executive officer to execute a contract amendment with Michael Minor Associates to provide additional noise and vibration consultant services for the Central Link Initial Segment project in the amount of \$224,948, with a 10% contingency of \$22,495 totaling \$247,443, for a new total authorized contract amount not to exceed \$447,183.

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MOTION:

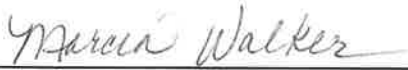
It is hereby moved by the Capital Committee of the Central Puget Sound Regional Transit Authority that the chief executive officer is authorized to execute a contract amendment with Michael Minor Associates to provide additional noise and vibration consultant services for the Central Link Initial Segment project in the amount of \$224,948, with a 10% contingency of \$22,495 totaling \$247,443, for a new total authorized contract amount not to exceed \$447,183.

APPROVED by the Capital Committee of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on April 8, 2010.



Fred Butler
Capital Committee Chair

ATTEST:



Marcia Walker
Board Administrator