

**MOTION NO. M2011-80**
**Contract Amendment for Final Design Services for the D Street - M Street Track and Signal Project**

<b>MEETING:</b>	<b>DATE:</b>	<b>TYPE OF ACTION:</b>	<b>STAFF CONTACT:</b>	<b>PHONE:</b>
Capital Committee	11/10/11	Recommendation to Board	Ahmad Fazel, DECM Executive Director	206-398-5389
Board	11/17/11	Final Action	Eric Beckman, Project Director <b>Mark Johnson, Project Manager</b>	206-398-5251 206-398-5192

**PROPOSED ACTION**

Authorizes the chief executive officer to execute a contract amendment with PB Americas, Inc. for final design services for the Sounder D Street - M Street Track & Signal Improvement project in the amount of \$1,329,371 with a 10% contingency of \$132,937, for a total of \$1,462,308, for a total authorized contract amount not to exceed \$14,708,082.

**KEY FEATURES**

- The proposed action will increase the amount of the final design contract with PB Americas, Inc. The increase is needed for Design Services During Construction (DSDC) efforts that are more extensive than previously anticipated as well as additional services work. The additional services work includes responding to site conditions that were not anticipated before the start of construction, but are within the contract scope.
- The requested increase is estimated to be sufficient to complete the project's construction and commissioning for the start of revenue service.
- After discovery of more contaminated soils in the Pacific Avenue area than anticipated, Sound Transit conducted a wide-ranging study of soil conditions in the construction area. Additional borings and analysis were undertaken to guide construction activities and reduce delays for the construction contractor and the potential for claims.
- The contract amendment is also being requested for:
  - Increased on-site observation and field services by geo-technical engineering staff
  - Revisions to the Pacific Avenue rail bridge design to accelerate the project schedule and to confirm the location of bridge support shafts in relation to an existing City of Tacoma storm sewer.
  - Redesign of storm and sanitary sewer bypass to handle water flow rates that are higher than anticipated.

**PROJECT DESCRIPTION**

The D Street – M Street Track & Signal project will design and construct a rail connection between the Tacoma Dome Station and the Sound Transit railroad right-of-way (the Lakeview Subdivision Line). The Project includes 1.4 miles of track work, a rail bridge over Pacific Avenue, roadway construction, utility relocations, and centralized traffic control.

# FISCAL INFORMATION

## Project Budget

D St. - M St. Track & Signal	2011 TIP	Board Approvals	This Action	Board Approved Plus Action	Uncommitted/ (Shortfall)
Agency Administration	8,907	8,907	-	8,907	-
Preliminary Engineering	1,744	1,744	-	1,744	0
Final Design	13,460	12,775	-	12,775	684
3rd Party	-	845	-	845	(845)
Right of Way	45,545	41,165	-	41,165	4,381
Construction	56,861	72,218	1,462	73,680	(16,819)
Construction Management	-	-	-	-	-
Vehicles	8,953	8,953	-	8,953	-
Contingency	25,811	-	-	-	25,811
<b>Total Project Budget</b>	<b>\$ 161,281</b>	<b>\$ 146,607</b>	<b>\$ 1,462</b>	<b>\$ 148,069</b>	<b>\$ 13,212</b>

### Phase Detail

#### Final Design

PB Americas, Inc.	8,856	8,856	-	8,856	-
Other Phase Activity	4,603	3,919	-	3,919	684
<b>Total Phase</b>	<b>\$ 13,460</b>	<b>\$ 12,775</b>	<b>\$ -</b>	<b>\$ 12,775</b>	<b>\$ 684</b>

### Phase Detail

#### Construction

PB Americas, Inc.	4,389	4,389	1,462	5,852	(1,462)
Other Phase Activity	52,471	67,828	-	67,828	(15,357)
<b>Total Phase</b>	<b>\$ 56,861</b>	<b>\$ 72,218</b>	<b>\$ 1,462</b>	<b>\$ 73,680</b>	<b>\$ (16,819)</b>

### Contract Detail

	Board Approvals to Date	Current Approved Contract Status	Proposed Action	Proposed Total for Board Approval
<b>PB Americas, Inc.</b>				
Contract	12,042	13,015	1,329	14,344
Contingency	1,204	231	133	364
<b>Total Contract Amount</b>	<b>\$ 13,246</b>	<b>\$ 13,246</b>	<b>\$ 1,462</b>	<b>\$ 14,708</b>
Percent Contingency	10%	2%	10%	3%

### Budget Shortfall

Contingency	1,462
<b>Total Funding</b>	<b>\$ 1,462</b>

#### Notes:

Amounts are expressed in Year of Expenditure \$000.

Committed includes pending Board Actions.

Board Approvals = Committed to-date + Contingency

Project budget is located on page 77 of the 2011 Transit Improvement Plan.

# SMALL BUSINESS PARTICIPATION

Sound Transit Goal:

Small Business: 12.5%

DBE: 0%

Commitment:

Small Business: 12%

DBE: 10%

Performance to Date:

Small Business: 13.46%

DBE: 11.56%

Subconsultant/Subcontractor	Business Type	% of Work	Dollar Value
GHL	DBE	4%	\$591,906
Envirolssues	DBE	1%	\$151,502
Cosmopolitan Engineering	DBE	5%	\$729,864
William P. Ott Consulting	Small Business	2%	\$233,838
<b>Total</b>		<b>12%</b>	<b>\$1,707,110</b>

## **EQUAL EMPLOYMENT WORKFORCE PROFILE**

140 employees; 30.16% women; 19.58% minorities.

## **BACKGROUND**

The Sounder D Street - M Street Track and Signal Improvement project will connect the Tacoma Dome Station with Sound Transit's right-of-way at Tacoma Avenue South and the improvements of the M Street to Lakewood Track and Signal project. The scope of the project includes installation of a centralized traffic control (CTC) signaling system for the Lakewood-to-Tacoma segment of the corridor. Sound Transit issued Notice to Proceed to the construction contractor November 8, 2010.

This contract amendment will cover changes anticipated to result from unforeseen site conditions and additional administration costs. These changes include additional work to characterize potentially contaminated soils prior to excavation, increased frequency of geotechnical observation of retaining wall construction during installation of soil nails, redesign of storm and sanitary sewers to handle bypass flows during construction, a change in wall design where an unforeseen obstruction precludes the use of soil nails, revisions to rail bridge design to accelerate the construction schedule, and additional funds for requests for information responses and submittal reviews.

The contract amendment authorized by the Board in February 2011 was based on a cost-to-complete estimate assembled before the contractor began major excavation in the Pacific Avenue area and encountered significant amounts of contaminated soils. Based on soils investigations conducted during final design, this volume of contaminated soils was not anticipated. Identifying and disposing of contaminated soils slowed the contractor's progress, and Sound Transit directed the design team to evaluate options for schedule recovery proposed by the contractor. This contract amendment is based on a recent cost-to-complete estimate and provides funding for DSDC services for up to two months after the scheduled date of completion. The project continues to recover schedule and the start of revenue service remains scheduled for 2012.

## **ENVIRONMENTAL COMPLIANCE**

SSK 10-20-11

## **PRIOR BOARD/COMMITTEE ACTIONS**

Motion No. M2011-13: Authorized the chief executive officer to execute a contract amendment with Parsons Brinckerhoff Incorporated to provide final design services for the D-to-M Street Track & Signal Project in the amount of \$2,137,731, with a 10% contingency of \$213,773, for a total authorized contract amount not to exceed \$13,245,774.

Motion No. M2008-63: Authorized the chief executive officer to execute a contract with Parsons Brinckerhoff Incorporated to provide final design services for the D-to-M Street Track & Signal Project in the amount of \$9,903,882, with a 10% contingency of \$990,388, for a total authorized contract amount not to exceed \$10,894,270.

## **TIME CONSTRAINTS**

A one month delay could create a delay to construction activities.

## **LEGAL REVIEW**

**MOTION NO. M2011-80**

A motion of the Board of the Central Puget Sound Regional Transit Authority authorizing the chief executive officer to execute a contract amendment with PB Americas, Inc. for final design services for the Sounder D Street - M Street Track & Signal Improvement project in the amount of \$1,329,371 with a 10% contingency of \$132,937, for a total of \$1,462,308, for a total authorized contract amount not to exceed \$14,708,082.

**BACKGROUND:**

The Sounder D Street - M Street Track and Signal Improvement project will connect the Tacoma Dome Station with Sound Transit's right-of-way at Tacoma Avenue South and the improvements of the M Street to Lakewood Track and Signal project. The scope of the project includes installation of a centralized traffic control (CTC) signaling system for the Lakewood-to-Tacoma segment of the corridor. Sound Transit issued Notice to Proceed to the construction contractor November 8, 2010.

This contract amendment will cover changes anticipated to result from unforeseen site conditions and additional administration costs. These changes include additional work to characterize potentially contaminated soils prior to excavation, increased frequency of geotechnical observation of retaining wall construction during installation of soil nails, redesign of storm and sanitary sewers to handle bypass flows during construction, a change in wall design where an unforeseen obstruction precludes the use of soil nails, revisions to rail bridge design to accelerate the construction schedule, and additional funds for requests for information responses and submittal reviews.

The contract amendment authorized by the Board in February 2011 was based on a cost-to-complete estimate assembled before the contractor began major excavation in the Pacific Avenue area and encountered significant amounts of contaminated soils. Based on soils investigations conducted during final design, this volume of contaminated soils was not anticipated. Identifying and disposing of contaminated soils slowed the contractor's progress, and Sound Transit directed the design team to evaluate options for schedule recovery proposed by the contractor. This contract amendment is based on a recent cost-to-complete estimate and provides funding for DSDC services for up to two months after the scheduled date of completion. The project continues to recover schedule and the start of revenue service remains scheduled for 2012.

**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 amendment with PB Americas, Inc. for final design services for the Sounder D Street - M Street Track & Signal Improvement project in the amount of \$1,329,371 with a 10% contingency of \$132,937, for a total of \$1,462,308, for a total authorized contract amount not to exceed \$14,708,082.

APPROVED by the Board of the Central Puget Sound Regional Transit Authority at a regular meeting thereof held on November 17, 2011.



---

Fred Butler  
Board Vice Chair

ATTEST:



---

Marcia Walker  
Board Administrator