

TO: Capital Committee

From: Brian McCartan, Executive Director of Finance & IT

Date: November 30, 2016

Re: 2017 Transit Improvement Plan (Capital) Budget Revisions

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At your meeting scheduled for December 8, 2016, we will ask you to act on each of the revisions described in the attached.

The attached contains four sections of capital budget revisions requests.

- I. Allocations from Cost Estimates Revisions (C-1 through C-4) These requests include 4 projects which staff have recommended approval. Upon review these projects required additional allocations in advance of any future phase gate actions for; 2 projects have been identified as having the potential to exercise early right of way acquisitions, 1 project has identified early permitting costs normally paid during construction and 1 project has changed its project delivery method to Design-Build necessitating early pre-construction costs. In each case these changes have no impact on the total cost of the project rather it is just an earlier release of funding than traditionally is anticipated as part of the Phase Gate process.
- II. Project Cash-Flow Changes Revisions (C-5 through C-7) These request include 2 projects which having better information to forecast 2017 spending have adjusted (1 project increase, 1 project decrease) the project spending for 2017 and one project that has adjusted 2017 spending due to a separate Phase Gate action.
- III. Project Increases Revisions (C-8 through C-9) These requests include 2 projects which have proposed scope of work changes. One project is increased to accommodate a study and the other project was increased to accommodate a grant funded change of scope.
- IV. New Project Revisions (C-10 through C-15) These requests include proposed new projects which staff has recommended for approval. The need for these projects were established after the development of the 2017 proposed capital budget. These projects include three infrastructure repair or replacement projects, one project as a result of an interlocal agreement, one as a result of a grant award and another as a result of a federal mandate.



# 2017 Capital Budget Revisions

## PROPOSED BUDGET REVISIONS

### CAPITAL PROJECTS – ALLOCATIONS FROM COST ESTIMATES

#### C-1 #4X115 Lynnwood Link Extension – Additional Allocation for Permit Costs

Total Amendment: \$500,000

Funding Source: ST2 Cost Estimate

Description: Increase Construction phase to account for project early permit costs.

Justification: This project is currently in final design and permit costs are accounted for in construction phase which is not funded until baseline. However, there are recently identified early permitting costs which need to be funded.

Budget/Schedule Risk: Low/Low

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation
Agency Administration	\$ 7,225		\$ 7,225	\$ 88,305		\$ 88,305
Preliminary Engr / Environmental Documentation	\$ -		\$ -	\$ 42,000		\$ 42,000
Final Design	\$ 37,750		\$ 37,750	\$ 111,453		\$ 111,453
Third Party	\$ 4,396		\$ 4,396	\$ 17,400		\$ 17,400
Row Acquisition and Permits	\$ 57,025		\$ 57,025	\$ 123,779		\$ 123,779
Construction	\$ -	\$ 100	\$ 100	\$ -	\$ 500	\$ 500
Construction Management	\$ 9,800		\$ 9,800	\$ 104,925		\$ 104,925
Vehicles						
Contingency						
<b>Total</b>	<b>\$ 116,196</b>	<b>\$ 100</b>	<b>\$ 116,296</b>	<b>\$ 487,861</b>	<b>\$ 500</b>	<b>\$ 488,361</b>

#### C-2 #400008 Tacoma Link Expansion – Additional Allocation for Pre-Construction Costs

Total Amendment: \$1,070,000

Funding Source: ST2 Cost Estimate

Description: This amendment would provide funding for construction management pre-construction costs and City of Tacoma services for design review and permitting.

Justification: Accounts for costs that are incurred in advance of the baseline of the project.

Budget/Schedule Risk: Low/Low

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation
Agency Administration	\$ 1,606	\$ -	\$ 1,606	\$ 10,600		\$ 10,600
Preliminary Engr / Environmental Documentation	\$ -	\$ -	\$ -	\$ 5,872		\$ 5,872
Final Design	\$ 4,475	\$ 1,300	\$ 5,775	\$ 10,830		\$ 10,830
Third Party	\$ 100	\$ 650	\$ 750	\$ 500	\$ 810	\$ 1,310
Row Acquisition and Permits	\$ 2,565	\$ -	\$ 2,565	\$ 3,200		\$ 3,200
Construction	\$ -	\$ -	\$ -	\$ -		\$ -
Construction Management	\$ 440	\$ 160	\$ 600	\$ 550	\$ 260	\$ 810
Vehicles	\$ 800		\$ 800	\$ 2,000		\$ 2,000
Contingency						
<b>Total</b>	<b>\$ 9,986</b>	<b>\$ 2,110</b>	<b>\$ 12,096</b>	<b>\$ 33,552</b>	<b>\$ 1,070</b>	<b>\$ 34,622</b>

# 2017 Capital Budget Revisions

## C-3 # 300018 Sumner Station Access Improvements – Additional Allocation for Right of Way Acquisitions

Total Amendment: \$1,501,935

Funding Source: ST2 Cost Estimate

Description: Increase allocation to the Right of Way phase to acquire the necessary properties in a timely manner.

Justification: This allocation would normally occur during a phase gate action but the time of the phase gate and the necessity for the funds requires this amendment to ensure a timely acquisition of properties.

Budget/Schedule Risk: Low/Low

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation
Agency Administration	144		144	762		762
Preliminary Engineering	518		518	2,685		2,685
Final Design						
Third Party Agreements						
Right of Way		1,615	1,615	2,912	1,502	4,414
Construction	39		39	113		113
Construction Services						
Vehicles						
Contingency						
<b>Total</b>	<b>701</b>	<b>1,615</b>	<b>2,316</b>	<b>6,472</b>	<b>1,502</b>	<b>7,974</b>

## C-4 #300004 Sounder Maintenance Base – Early ROW Activity

Description: Allocation from the project cost estimate to accommodate early ROW activities in advance of Phase Gate, Gate 4 (Enter Final Design) when right of way funds are traditionally allocated. Additionally, adjust the 2017 cash-flow to anticipate potential ROW action.

Justification: To allow the flexibility to acquire property that may become available prior to any phase gate actions.

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation
Agency Administration	\$ 186	\$ -	\$ 186	\$ 860		\$ 860
Preliminary Engr / Environmental Documentation	\$ 3,066	\$ -	\$ 3,066	\$ 5,116		\$ 5,116
Final Design						\$ -
Third Party						\$ -
Row Acquisition and Permits	\$ 115	\$ 2,448	\$ 2,563	\$ 865	\$ 2,127	\$ 2,992
Construction						
Construction Management						
Vehicles						
Contingency						
<b>Total</b>	<b>\$ 3,367</b>	<b>\$ 2,448</b>	<b>\$ 5,815</b>	<b>\$ 6,841</b>	<b>\$ 2,127</b>	<b>\$ 8,968</b>

# 2017 Capital Budget Revisions

## CAPITAL PROJECTS – PROJECT CASH-FLOW CHANGES

### C- 5 #600016 Fare Administration – Increase 2017 Spending

Total Amendment: \$1,872,931

Funding Source: N/A

Description: Increase to 2017 spending in support of OCRA. A shift in phase allocation to budget administrative costs. No change to total budget allocation.

Justification: Proposed TIP was developed before a mature scope of work and schedule could be completed. This change reflects the completed work plan.

Budget/Schedule Risk: Low/Low

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation
Agency Administration	\$ -	\$ 115	\$ 115		\$ 115	\$ 115
Preliminary Engr / Environmental	\$ 200	\$ 35	\$ 235	\$ 1,646		\$ 1,646
Research & Technology	\$ 400	\$ 1,722	\$ 2,122	\$ 14,457	\$ (115)	\$ 14,342
Final Design						
Third Party						
Row Acquisition and Permits						
Construction						
Construction Services						
Vehicles						
Contingency						
<b>Total</b>	<b>\$ 600</b>	<b>\$ 1,873</b>	<b>\$ 2,473</b>	<b>\$ 16,103</b>	<b>\$ -</b>	<b>\$ 16,103</b>

### C-6 #804100 TOD Property Surplus Disposition – Reduce Annual Spending

Total Amendment: (\$1,033,195)

Funding Source: N/A

Description: Reduce annual project budget. No change in total project allocation.

Justification: Reduction is in line with anticipated work plan and cash flow.

Budget/Schedule Risk: Low/Low

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation
Agency Administration	\$ 530		\$ 530	\$ 2,326		\$ 2,326
Preliminary Engr / Environmental Documentation						
Final Design						
Third Party						
Row Acquisition and Permits	\$ 1,715	\$ (820)	\$ 895	\$ 8,444		\$ 8,444
Construction	\$ 513	\$ (213)	\$ 300	\$ 845		\$ 845
Construction Services						
Vehicles						
Contingency						
<b>Total</b>	<b>\$ 2,758</b>	<b>\$ (1,033)</b>	<b>\$ 1,725</b>	<b>\$ 11,615</b>	<b>\$ -</b>	<b>\$ 11,615</b>

# 2017 Capital Budget Revisions

## C-7 #300017 Puyallup Station Access Improvements – Establish 2017 Annual Budget

Description: 2017 Annual increase to allow for establishment of the final design phase. This action is in conjunction with a November 2016 project budget allocation from the cost estimate and Phase Gate 4 increasing the project budget by \$2,594,563.

Justification: Establish 2017 annual spending consistent with budgets changes approved under a separate 2016 Board action.

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation
Agency Administration	\$ 140	\$ 384	\$ 524	\$ 1,223		\$ 1,223
Preliminary Engineering	\$ 518	\$ 302	\$ 820	\$ 2,996		\$ 2,996
Final Design		\$ -				
Third Party Agreements		\$ 50	\$ 50	\$ 105		\$ 105
Right of Way	\$ 3,720	\$ 837	\$ 4,557	\$ 6,555		\$ 6,555
Construction		\$ -				
Construction Services		\$ 63	\$ 63	\$ 130		\$ 130
Vehicles		\$ -				
Contingency		\$ -				
<b>Total</b>	<b>\$ 4,379</b>	<b>\$ 1,635</b>	<b>\$ 6,014</b>	<b>\$ 11,009</b>	<b>\$ -</b>	<b>\$ 11,009</b>

## CAPITAL PROJECTS – PROJECT INCREASES

### C-8 #700793 Signage Improvements – Study Sign Identification and Wayfinding Issues

Total Amendment: \$200,000

Funding Source: New Appropriation

Description: Study wayfinding issues in relationship to location, size and ease of identification to assist in the ease of access to Link services. Identify solutions.

Justification: Study is in response to recent customer complaints of wayfinding signs not readily identifiable for instruction to and location of link services.

Budget/Schedule Risk: Low/Low

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Amendment	Amended Proposed Budget	Authorized Project Allocation	Amendment	Amended Authorized Project Allocation
Agency Administration	\$ 22		\$ 22	\$ 76		\$ 76
Preliminary Engr / Environmental Documentation						
Final Design				\$ 94		\$ 94
Third Party		\$ 200	\$ 200		\$ 200	\$ 200
Row Acquisition and Permits						
Construction	\$ 712	\$ -	\$ 712	\$ 728		\$ 728
Construction Services				\$ 33		\$ 33
Vehicles						
Contingency						
<b>Total</b>	<b>\$ 735</b>	<b>\$ 200</b>	<b>\$ 935</b>	<b>\$ 931</b>	<b>\$ 200</b>	<b>\$ 1,131</b>

# 2017 Capital Budget Revisions

## C-9 #600033 Link CCTV System Upgrade – Increase for grant funding video monitoring system

Total Amendment: \$240,000

Funding Source: Grant funded

Description: Procure and install a video monitoring system at Union Station aiding Security Operations Center in monitoring events in the field.

Justification: This procurement is fully funded by a recently awarded Homeland Security Grant.

Budget/Schedule Risk: Low/Low

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Amendment	Amended Proposed Budget	Authorized Project Allocation	Amendment	Amended Authorized Project Allocation
Agency Administration	\$ 20		\$ 20	\$ 20		\$ 20
Preliminary Engr / Environmental Documentation						
Final Design	\$ 50		\$ 50	\$ 50		\$ 50
Third Party						
Row Acquisition and Permits						
Construction	\$ 2,084	\$ 240	\$ 2,324	\$ 2,784	\$ 240	\$ 3,024
Construction Services						
Vehicles						
System Testing & Startup						
Contingency						
<b>Total</b>	<b>\$ 2,154</b>	<b>\$ 240</b>	<b>\$ 2,394</b>	<b>\$ 2,854</b>	<b>\$ 240</b>	<b>\$ 3,094</b>

# CAPITAL PROJECTS – NEW PROJECTS

## C-10 #TBD Access Control System Upgrade

Total Amendment: \$1,114,000

Funding Source: New Appropriation

Description: Upgrade of the existing access control system which manages the secure access to agency facilities. The existing system utilizes General Electric (GE) Secure Perfect system was installed in 2008 and is no longer supported by GE. A new system will allow for a single access control platform for all Sound Transit Facilities.

Justification: The current system has been unsupported by GE since 2013. King County had maintained the system with a reliable source of spare parts. However, very recently, spare parts have been more difficult to source necessitating the need for a system replacement and upgrade of features and functionality.

Budget/Schedule Risk: Medium/Low

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation
Agency Administration						
Preliminary Engr / Environmental Documentation						
Final Design						
Third Party						
Row Acquisition and Permits						
Construction		\$ 1,114	\$ 1,114		\$ 1,114	\$ 1,114
Construction Management						
Vehicles						
Contingency						
<b>Total</b>	<b>\$ -</b>	<b>\$ 1,114</b>	<b>\$ 1,114</b>	<b>\$ -</b>	<b>\$ 1,114</b>	<b>\$ 1,114</b>

# 2017 Capital Budget Revisions

## C-11 # TBD LRV Between Car Barriers

Total Amendment: \$560,000

Funding Source: New Appropriation

Description: Procure and install barriers 21 Link Stations to prevent access to space between LRV vehicles.

Justification: To comply with FTA Regulation 49 CFR 38.85 requiring barriers between LRV vehicles when stopped at stations to ensure that visually impaired riders do not mistaken the space between vehicles as an open door. This project was originally anticipated to be a small works project in 2016, once the cost estimate was established for the scope and staff oversight, the project did not meet small works eligibility moving it to a full capital budget consideration.

Budget/Schedule Risk: Low/Low

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation
Agency Administration		\$ 152	\$ 152		\$ 152	\$ 152
Preliminary Engr / Environmental Documentation						
Final Design						
Third Party						
Row Acquisition and Permits						
Construction		\$ 368	\$ 368		\$ 368	\$ 368
Construction Management						
Vehicles						
Contingency						
<b>Total</b>	<b>\$ -</b>	<b>\$ 520</b>	<b>\$ 520</b>	<b>\$ -</b>	<b>\$ 520</b>	<b>\$ 520</b>

## C-12 # TBD King Street Station Platform Improvements

Total Amendment: \$300,000

Funding Source: New Appropriation

Description: Participate in a local partnership to design and construction passenger access improvements to King Street Station improving access to Century Link Field.

Justification: This partnership was not formalized, nor was the cost established until after the submission deadlines for the 2017 TIP. The partnership is between ST, WSDOT and Amtrak to improve special event train access to King Street Station. Special events requiring 7 car platform support limit train access to other platforms. This will allow improvements to track 9 for game days and special events reducing platform crowding and improving overall safety to passengers. This will be partially funded by a grant from the Federal Railway Administration.

Budget/Schedule Risk: Low/Low

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation
Agency Administration		\$ 25	\$ 25		\$ 25	\$ 25
Preliminary Engineering		\$ 25	\$ 25		\$ 25	\$ 25
Final Design		\$ 50	\$ 50		\$ 50	\$ 50
Third Party Agreements						
Right of Way*		\$ 75	\$ 75		\$ 75	\$ 75
Construction		\$ 125	\$ 125		\$ 125	\$ 125
Construction Services						
Vehicles						
Contingency						
<b>Total</b>		<b>\$ 300</b>	<b>\$ 300</b>		<b>\$ 300</b>	<b>\$ 300</b>



# 2017 Capital Budget Revisions

## C-13 # TBD Convention Place Development System Retrofit

Total Amendment: \$2,549,150

Funding Source: New Appropriation

Description: Retrofit existing power distribution control and monitoring system at Pine Street. Install new 26kV feeder breakers at Pine Street and feeder cables to new convention place traction power substation and install new 480kV back-up power cables from Pine Street to Westlake and University Stations.

Justification: Current power distribution infrastructure in Convention Place/Pine Street area is scheduled for redevelopment necessitating relocation and decommissioning of existing equipment located on the Convention Place site. The scope of work and cost estimate was only recently established.

Budget/Schedule Risk: Low/Low

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation
Agency Administration		233	233		233	233
Preliminary Engineering						
Final Design		72	72		72	72
Third Party Agreements						
Right of Way						
Construction		2,025	2,025		2,025	2,025
Construction Services		220	220		220	220
Vehicles						
Contingency						
<b>Total</b>		<b>2,549</b>	<b>2,549</b>		<b>2,549</b>	<b>2,549</b>

## C-14 # TBD Link Operating Segment System Enhancements and Upgrades

Total Amendment: \$1,400,000

Funding Source: New Appropriation

Description: The purpose of this project is to deliver enhancements and upgrades to systems on the existing link operating segment. Systems covered include but are not limited to AC power distribution, traction power, overhead catenary system, signals and communications systems upgrades, and enhancements to existing engineering infrastructure of link operating segment.

Justification: To assure continued safe and reliable operation of existing link systems via enhancements and upgrades identified based on system operational performance.

Budget/Schedule Risk: Low/Low

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Revision	Revised Proposed Budget	Proposed Budget	Revision	Revised Authorized Project Allocation
Agency Administration		185	185		185	185
Preliminary Engineering						
Final Design		185	185		185	185
Third Party Agreements						
Right of Way						
Construction		950	950		950	950
Construction Services		80	80		80	80
Vehicles						
Contingency						
<b>Total</b>		<b>1,400</b>	<b>1,400</b>		<b>1,400</b>	<b>1,400</b>

# 2017 Capital Budget Revisions

## C-15 # TBD On-Demand Bike Locker Pilot

Total Amendment: \$60,000

Funding Source: New Appropriation/Grant

Description: Installation of 16 bike lockers with on-demand technology at Mercer Island Transit Center to test and evaluate system for potential use at other locations. This project recently received partial funding through a local grant making this project affordable.

Justification: Provides a low cost review and experience of new technologies to better achieve full utilization bike lockers for active bike riders at locations where a high demand for lockers exist.

Budget/Schedule Risk: Low/Low

Phase	2017 Annual Budget			Total Authorized Project Allocation		
	Proposed Budget	Revision	Revised Proposed Budget	Authorized Project Allocation	Revision	Revised Authorized Project Allocation
Agency Administration						
Preliminary Engr / Environmental Documentation						
Final Design						
Third Party						
Row Acquisition and Permits						
Construction		\$ 60	\$ 60		\$ 60	\$ 60
Construction Management						
Vehicles						
Contingency						
<b>Total</b>	<b>\$ -</b>	<b>\$ 60</b>	<b>\$ 60</b>	<b>\$ -</b>	<b>\$ 60</b>	<b>\$ 60</b>