

TRIUNITY



SOUND TRANSIT: ST3 COST ASSESSMENT TASK 2 FINAL REPORT



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TIMELINE OF REPORTS

Task 1: Review and Assessment of Past Cost Estimates and Trends

- » Draft Report March 2021
- » Final Report April 2021

Task 2: Estimating Methodology Review and Recommendations

- » Draft Report June 2021
- » Final Report June 2021

Task 3: Management Methodology Review and Recommendations

- » Draft Report July 2021
- » Final Report After Receiving Board Comments



Task 2 Final: Estimating Methodology Review and Recommendations

- » Why
- » Methodology
- » Recommendations
- » Next Steps



SINCE WE WERE LAST HERE

- » Cost Estimating Responsibility Matrix
- » Rank of each Driver's impact to the change in cost estimates
- » Amount each Driver contributed toward the change in cost estimates
- » Sound Transit & WSDOT Estimating Workshop



DRIVERS IMPACTING CHANGES TO COST ESTIMATES

Construction cost estimating:

- » Prescriptive process with little flexibility.
- » Unit costs were updated.
- » Some original design assumptions were inaccurate.
- » Second opinions were not utilized.

Right of Way (ROW) cost estimating:

- » Buffer method underestimated right of way needs.
- » Changes to the formula approach.
- » Unpredictable market conditions.
- » Unclear ownership for early estimates.



No.	Category	Driver	Estimate Impact (%)
1	Construction	Inaccurate Original Assumptions	40%
2	ROW	Right Of Way (ROW) Formula (including contingency)	20%
3	ROW	Right Of Way (ROW) Quantities (buffer method)	20%
4	ROW	Market conditions (as pertains to real estate)	10%
5	Construction	Unit Cost Library Updates	10%
6	Construction	Prescriptive Estimating Practices*	N/A
7	Construction	Second Opinions [*]	N/A
8	ROW	Right Of Way (ROW) Estimating Ownership *	N/A

* Driver is not quantifiable.



RECOMMENDATIONS

» Right Of Way (ROW) Estimating Methodology

- » Involve ROW specialists early in the process.
- » Identify when deviations from methodology in estimating ROW are necessary and appropriate.
- » Sound Transit Policies and Procedures
 - » Procure an independent opinion to validate early cost estimates.
 - » Active use of a Responsibility matrix.
 - » Include a program level management reserve in addition to project level contingency.



RECOMMENDATIONS

» Internal Communication

- » Portfolio Services Office involvement in Program level process oversight.
- » Involve Subject Matter Experts early and often.
- » Develop and maintain a fully developed risk register with associated cost implications.
- » Tools to Communicate with the Board
 - » Annual Program Evaluation to share yearly project status with the Board.
 - » Dashboard for project status update.
- » Communication to the Public
 - » Use of ranges with initial cost estimates.



NEXT STEPS

» Estimating 101 Workshop

- » Scheduled for July 8th
- » Scope development in progress
- » Task 3 Draft Report Management Methodology
 - » Due July 19th week of monthly Board meeting

