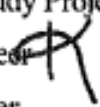


# Memo

To: I-395/Route 9 Transportation Study Project File  
From: Ken Sweeney, P. E. - Chief Engineer   
CC: Russell Charette, Project Manager  
Date: January 30, 2012  
Re: Planning Level Cost Estimates for the Alternatives 2B-2, 5A2B-2, 5B2B-2

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The build alternatives have been designed as a two-lane road within a two-lane right-of-way using MaineDOT's criteria for freeways. The latest estimate to construct the build alternatives dated December 2011 range from approximately \$93 million for Alternative 2B-2 to \$122 million for Alternative 5A2B-2.

After reviewing the cost estimates for the build alternatives, the cost estimates should be reduced by one-third, for planning purposes moving forward. The basis for this one-third reduction includes, but is not limited to:

- Reducing the number of structures that need to meet 1.2 stream bankfull structure design would reduce structure costs.
- Using a rolling design, earthwork quantities would be reduced by approximately one-third
- Recognizing that lump sum items – drainage, signing and pavement marking, erosion and sedimentation control, maintenance and protection of traffic, and mobilization – were calculated as a percentage of construction, additional savings would be realized for these items
- Reducing the contingency percentage from 20% to 10%.
- Reducing the design engineering and construction engineering services, based on the type of construction, from 16% to 10%.