

**Bridge Maintenance FY17
West Main Street Bridge**

BID No. 40332472

Change Order No. 1 - Reasons for Changes

Eliminate Item 10A – Half Sole Repairs (Including Polymer Concrete)

Add Item 13C – Half Sole Repairs w/ Void Tubes B2 Concrete

When the 2 inch concrete overlay was removed from the existing bridge deck, it was determined that nearly 100% of the bridge deck will require half sole repair. With this extensive repair, it is not feasible to utilize the epoxy polymer concrete for the patches. This change eliminates the use of epoxy polymer concrete for the half sole repair and substitutes a standard MoDOT B2 mix. The cost of patching an exposed void will be considered completely covered by the unit price for Half Sole Repairs w/ Void Tubes B2 Concrete.

Contract Time

With the change in material type for the half sole patching, a 28 cure period must be added between placing the Type B2 concrete and the epoxy polymer concrete. This is necessary to ensure an adequate bond of the new surface. Additionally, because of the extensive repairs required for the bridge deck, special repair zones will now be added to the contract. These special repair zones limit the area that can be repaired at any given time in order to maintain the structural integrity of the bridge deck. Before the contractor can move to a new zone, the adjacent zone must reach a compressive strength of 3200 psi. It is anticipated it will take 5 days to reach this strength. As a result, an additional 15 days are being added to the contract. In all, these changes result in a total of 43 days being added to the contract. These additional days only apply to completing the Mail Street Bridge. The substantial completion date for the Chipman Road Bridge remains unchanged.