

## Projects

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Prepared by Transportation Planning  
Missouri Department of Transportation

## Type Ed MSE Wall Gutter [Video](#)



### Description

The MSE wall combination is an integral coping and drainage gutter to be used on the top of the MSE wall panel. Traditionally, a coping is placed on the top of the MSE wall panels with a Type A or B gutter behind the coping. Type Ed MSE Wall gutter integrates the drainage gutter on top of the coping to lower the effective height of the MSE Wall.

### Benefit

Type Ed MSE Wall gutter saves money by lowering the required height of MSE Walls. Type ED gutter is narrower, which allows for bridge abutments to be moved in closer together reducing the overall length of the bridge. By reducing the length of the bridge, cost savings resulting from reductions in reinforcing steel, concrete bridge deck, and barrier wall could be realized. The reduction in MSE wall height and the reduction in bridge length have the potential to greatly reduce construction project costs if utilized across the state on MoDOT projects. By stacking the gutter and coping, the unit can be precast as one piece and installed in one operation saving time and simplifying work. Type Ed gutter it is easier to backfill once the gutter is in place as the backfilling can be completed in one operation instead of two when a coping and type B gutter are installed in separate operations. Using the precast Type Ed gutter the installation only requires a crane and worker on a manlift to set the gutter, reducing the accident potential caused when a cast in place gutter is used.

### Materials and Labor

There were no added material costs.

### For More Information Contact

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Additional information, photos or videos can be seen by accessing Innovations Challenge SharePoint page at: <http://sp/sites/tp/planpol/SitePages/InnovationHome.aspx>

