



# **Costs of Geosynthetic Reinforced Soil Abutments in Missouri**

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August 28, 2014**



# Four GRS Abutment Bridges Let in Missouri Through August 2014

Project	Owner	Letting	Number of Bidders	Cost of GRS Abutments *			Result
				Estimated	Low Bid	% Differ.	
Route B	MoDOT	May 2014	2	\$228,000	\$240,240	5%	Awarded/Built
Rustic Road	Boone County	May 2014	1	-	-	146%	Rejected/May Relet in September 2014
Route 160	MoDOT	May 2014	2	\$93,840	\$331,280	253%	Change to Pile Abutment (no GRS)
County Road 2580	Randolph County	July 2014	2	\$167,056	\$358,083	114%	Awarded

\* Cost includes excavation, blocks, fabric and rock fill.



# Bridge Layout Options for Boone Route B

## Boone County Route B Options

Bridge Layout	Bridge Cost	Days Closed
Single Span with Piling and MSE Walls	\$362,000	30
3 Span on Piling or Drilled Shafts	\$442,000	45
Single Span GRS	\$514,000	30



# Vision For GRS Abutment Bridges In Missouri

Very limited use

Single span bridges over other roads (not water)

Will compete with

- Single span on piling with MSE walls
- 3 span on piling or drilled shafts



# Questions?

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