



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DIVISION**  
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**JOHN C. SCHROER**  
COMMISSIONER

**BILL HASLAM**  
GOVERNOR

April 13, 2018

**MEMORANDUM**

<b>PROJECT:</b>	<b>PIN 115008.00</b>
	Van Buren County SR-285 Rockfall & Slide Mitigation From L.M. 4.34 to L.M. 4.68
<b>SUBJECT:</b>	<b>CONSTRUCTABILITY REVIEW MEETING SUMMARY</b>
<b>DATE:</b>	March 13 & 14, 2018
<b>NOTES BY:</b>	Laura Larkins TDOT Construction Division

A Constructability Review meeting was held on March 13<sup>th</sup> & 14<sup>th</sup>, 2018 with Construction Industry Representatives, TDOT Geotech, TDOT HQ Construction Division, and TDOT Region 2 Operations and Project Development staff. The scope of the review was to integrate construction expertise early into the project development process for the SR-285 Rockfall & Slide Mitigation construction project.

The construction plans were specifically reviewed as part of the meeting.

**AGENDA:**

1. Introductions
2. Purpose: Existing Conditions
3. Project Overview: Roadway, Environmental, Construction/Maintenance
4. Work Session

**ACTION ITEMS:**

1. Geotechnical Concerns

## 2. Project/Environmental Commitments

### **SUMMARY:**

This project was originally let in October 2016, but was rejected. The original plans were used for this review. Plans showed pre-splitting the rock face, providing a 50 foot catchment area, and shifting the road away from Cane Creek. As discussion progressed about the issues, it became clear there were two major issues that needed to be addressed. Potential rock fall was identified as the first major issue. The second major issue was that the roadway bank was continuously sliding off into the river. It became clear that the original design would not be the best solution so several different options were discussed.

Several concerns were identified in addressing the rock fall issue. TDOT Environmental explained that, under our current permit, no debris could enter Cane Creek. The environmental restriction created immense concern and it was determined that it would be highly unlikely that all excavation of the rock face could be done with no chance of impacting Cane Creek. The actual rock excavation of the overburden was also a concern due to safety. Assuming the contractor can keep debris out of the creek, the following ideas were suggested.

- Presplit rock face with hybrid rockfall fence and drape system with a 21 foot catchment; raised roadway
- Presplit rock face with a 21 foot catchment; raised roadway
- Presplit rock face with a retaining wall
- Changing typical section
- New bridge on an altered alignment away from rock face
- Leave the rock face as-is; build soldier pile wall on roadway bank to prevent road failure
- Continue to have maintenance division maintain roadway and pickup any falling debris

The final decision has yet to be made and discussions are still in progress.