

Project: I-70 Vail Pass Various Wall Repairs  
Project Sub Acct. No: 21897  
Date: October 16, 2018  
**Technical Requirements**

## **Section 13 – Roadway Design**

### **ADMINISTRATIVE REQUIREMENTS**

The planned improvements to the roadway characteristics of I-70 are limited to the installation of guardrail, removal and replacement of concrete barrier as required by the construction methods, and median grading for erosion control.

#### **Design Requirements**

Not Applicable

#### ***Design and Plan Submittals***

In addition to the submittal requirements specified in this Section, the Contractor shall submit all design and plan documents to the CDOT Project Engineer for Acceptance as required in Section 3 – Quality Management.

#### **Roadway Requirements**

##### **General**

##### ***Type 6 Repair***

This type of repair includes installing Guardrail Type 9 and end treatment to protect wall R070A171042LRA from vehicles.

##### ***Typical Section***

Not Applicable

##### ***Stopping Sight Distance***

Not Applicable

##### ***Fill and Cut Slopes and Clear Zones***

Not Applicable

##### ***Construction Clear Zone***

Construction clear zone is as follows:

Mainline I-70: 30 feet  
US 6/US 24: 14 feet

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The Contractor shall not stockpile material, equipment, or vehicles within the above clear zones or in CDOT ROW without permission of the CDOT Project Engineer.

### ***Roadside Slopes Adjacent to Pavement***

Roadway slopes shall be returned to their original slope unless otherwise approved by the Engineer.

### ***Roadway***

All roadway surfaces damaged by the Contractor's operations shall be removed in accordance with Book 2, Section 10 – Geotechnical and replaced full depth to match existing, including base course and pavement.

### ***Guardrail***

All concrete barriers shall be cast-in-place and MASH Compliant.

If there are deviations to the US 6/US 24 Type 9 CD Guardrail design in the plans, the Contractor's guardrail design shall be in accordance with AASHTO Roadside Design Guide, 4<sup>th</sup> Edition and CDOT's Guardrail M&S Standards. Approval from the CDOT Project Engineer is required for proposed deviations.

### ***Design Exception Process***

Not Applicable

## **Construction Requirements**

### ***Removals***

The Contractor shall be responsible for the removal of all items on the project designated for removal or found to conflict with project design elements. Removal items shall become the property of the Contractor unless designated to remain property of CDOT. Removal items shall include, but not be limited to: structures/portions of structures and obstructions, and asphalt mat. All removals shall be performed in accordance with Standard Specification 202.

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### **Deliverables**

The Contractor shall submit the following to the CDOT Project Engineer.

| <b>Deliverable</b>      | <b>Acceptance or Approval</b> | <b>Schedule</b>               |
|-------------------------|-------------------------------|-------------------------------|
| Clear Zone Calculations | Acceptance                    | 2 weeks prior to construction |

All Deliverables shall also conform to the requirements of Section 3 Quality Management.

### **Exhibits**

Exhibits are as follows:

- A. Roadway Design Criteria – Not Applicable
- B. CDOT Design Exception Variance Request Form 454A – Not Applicable