











Presentation Overview

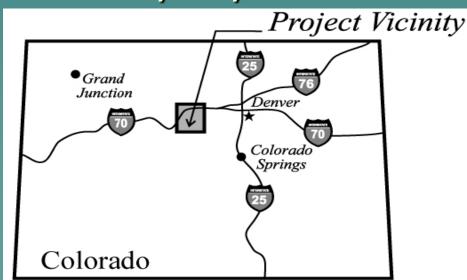
- Project Information
- Construction Challenges
- ◆ Q&A
- Drive tour of route

GEORGETOWN 38+000 36+000 30-000 28+000 Arapaho National 26+000 24+000 Navlar Lake Guanella Pass Mr Evans Clear Creek Co 18+000 16+000 14+000 12+000 Pike National Forest 8+000 Geneva Canyon 6+000 GRANT US HWY 285

Route Overview

- 24 miles
- Low volume traffic
- Heavy recreational use
- Two USFS Ranger Districts
- Colorado Scenic Byway





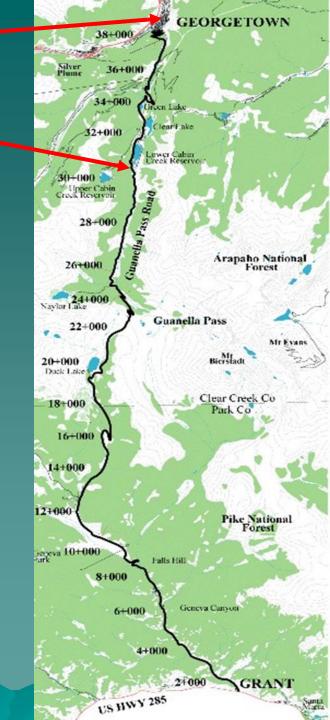
♦ Phase 1

- -8.8 miles
- -\$20,114,704.40
- American Civil Constructors
- Began January 2004
- Completed September 2007



♦ Phase 2

- -6.5 miles
- -\$31,791,058.91
- SEMA Construction Inc.
- Began June 2008
- Completed September 2011



♦ Phase 3

- -9.5 miles
- -\$18,973,644.00
- American Civil Constructors
- Began March 2014
- Completed September 2015



Location Access Challenges

- High elevation limited construction seasons
- Delivery locations at limits of corridor
- Existing and proposed roadway geometry limitations
- Environmental commitments limited permanent and temporary impacts

7th Street in Georgetown

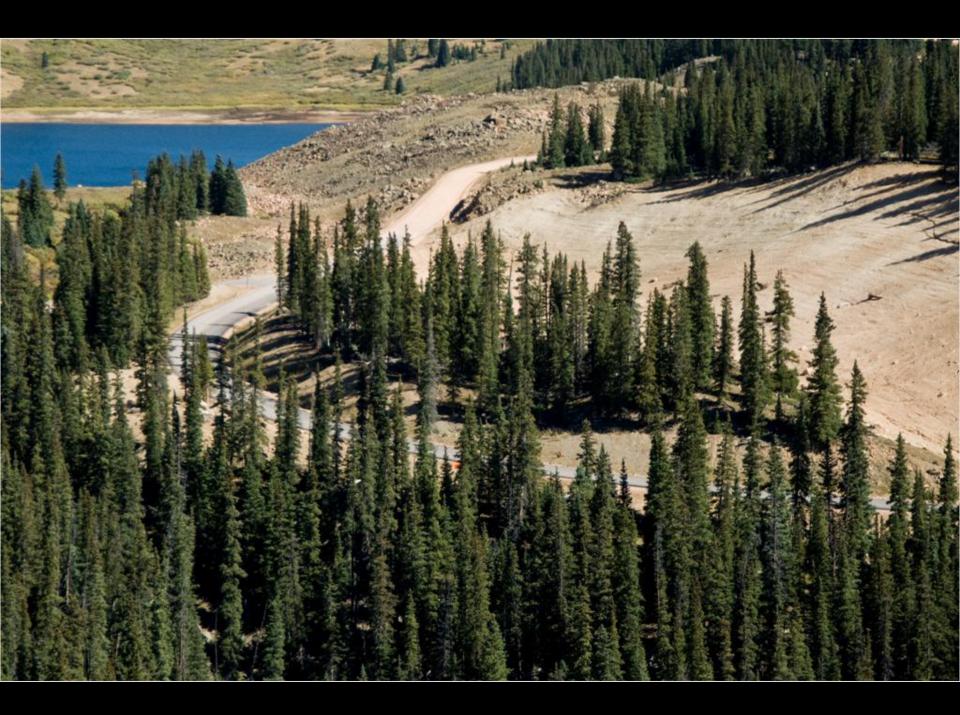




Onsite material

- USFS permitted new material source near middle of corridor
- Boulders generated during excavation used for rockery walls
- Harvest/transplant existing vegetation











MSE Wall Construction

- Mobile Crusher
- Rock ex and backfill







Rockery Walls

- Double and Triple Tiered
- All rock material from project limits!







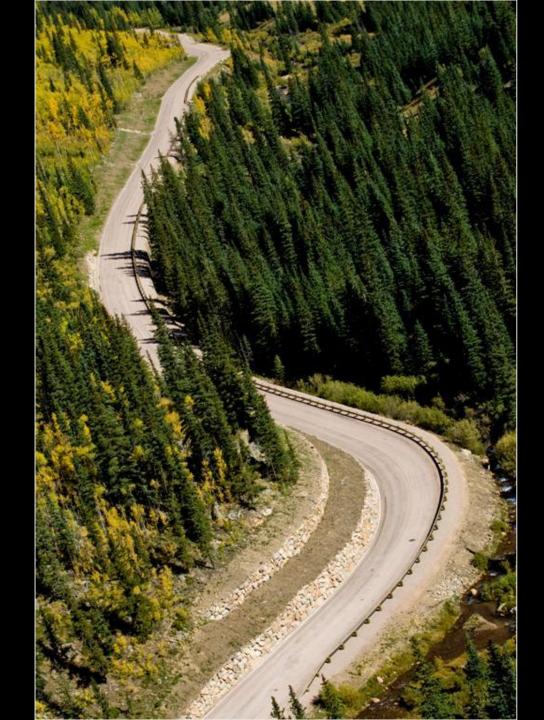
Soil Nail Rockery













Tundra Transplanting

- Transplant of Alpine Sod at 11,667 ft
- Award for Environmental Excellence!





Tundra Transplanting





Tundra Transplanting







Questions?

Images from.....







Thanks!