



Echo Canyon

Summit County, UT

Interstate 80 between Salt Lake City, UT and Evanston, WY winds through various geologic features. One of which happens to be an historic landslide located at about mile post 174. The landslide has exhibited minor movement for many years, since the construction of I-80. The landslide material consisted of massive conglomerate rock sliding on thin clay layers bedded at 21 degrees from horizontal.

In the summer of 1999, the slide activated and closed both the east and west bound lanes of I-80. At that point, Utah DOT designers and Schnabel Foundation Company established a stabilization method utilizing tieback anchors and precast reaction blocks.

Schnabel Foundation Company began anchor installation in December of 1999. The work consisted of 199 anchors with design load of 300 kips, and an average length of 74'. The tiebacks were tested to 133% of the design load and there were no failures on the project.

The anchor work was completed in May of 2000. While the last of the load cell instrumentation was being connected, the mountain to the west of the project began to move. A similar repair was designed and work began in October of 2000. The completion is anticipated to be in March of 2001.

Owner: Utah DOT
 General Contractor: Flare Construction Company

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