



Elephant Butress Tunnel Rehabilitation Project

Silver Lake Ditch & Reservoir Company
Substantially Complete February 1, 2025

The Silver Lake Ditch & Reservoir Company Elephant Butress Tunnel Rehabilitation Project is shown in the pictures below. The Project installed a new arched liner plate, entry and exit headwalls, and other reinforcements which will protect the ditch and its ability to provide water to shareholders.



Project Description

The Silver Lake Ditch & Reservoir Company provides water from Boulder Creek to nearby residents and commercial entities and is used for irrigation on approximately 247 acres of land.

The Silver Lake Ditch & Reservoir Company's Elephant Butress Tunnel Rehabilitation Project focused on rehabilitating the existing tunnel structure, which was initially damaged during the 2013 floods and has deteriorated since. The Project work included replacing the existing western portal headwall with a more substantial headwall across the width of the tunnel, installation of a modular arched liner plate system with geotechnical foam used to fill in voids between the tunnel and liner plate to protect portions of the tunnel, installation of a new rock deflector, and new liner plate and a new cast-in-place headwall at the eastern tunnel portal.

P R O J E C T D A T A		
<i>Sponsor:</i> Silver Lake Ditch & Reservoir Company	<i>County:</i> Boulder	<i>Water Source:</i> Boulder Creek
<i>Type of Project:</i> Ditch Rehabilitation		<i>Board Approval Date:</i> September 2024
<i>Loan Terms:</i> 20 years @ 2.95% (Principal) \$151,500		
<i>Design Engineer:</i> Harrison Western Construction Corporation		
<i>Contractor:</i> Harrison Western Construction Corporation		