

# Project Profile

## General Project Information

**Project Location:** State Highway 92 Delta, Colorado  
**Road Owner Contact:** Colorado Department of Transportation  
 Dave Eller, CDOT Region 3  
**Date Placed:** May 2003  
**Existing Pavement:** 3-4" of CDOT Hot Bituminous Pavement (HBP)



The Asphalt Recycling and Reclaiming Association (ARRA) presented its 2004 Charles R. Valentine Award for Excellence in Recycling to CDOT's David Eller for this project. Eller was cited as a leader within CDOT to improve specifications, constructability and the performance of cold in-place recycling (CIR). Eller's stated goal is to "develop dependable testing parameters and apply end result specifications that can model anticipated performance." The ReFlex® technology met the needs for this project. For the SH 92 project, over 70 cores were taken from the existing pavement. These were evaluated and used for the engineered mix design, which examined different recycling products, varying emulsion contents and varying additive levels. The project was bid based on the mix design meeting the performance-related specifications for stability, thermal cracking temperature, resistance to raveling and resistance to moisture damage.

## Construction Information

**The Project:** The project recycled all of the existing HBP, which ranged from 3 to 4 inches, using the ReFlex® engineered emulsion and process. The recycled pavement was surfaced with a 2-inch PG 76-28 HMA overlay.

**Construction Notes:** Elam Construction was awarded the bid, and Arizona Pavement Profiling, Inc. was responsible for the recycling portion.

## Photos

Milling

Treated Material

Paver Placing ReFlex® Recycled Material



## Performance Results

CDOT is pleased with the construction and performance of the award-winning project, and contracted for a 15-mile project on I-70 near Grand Junction using the ReFlex® process. Results from field verification during and after the project are being used to validate the design and specification methods. The ARRA citation reads, "This approach can be applied to future projects to improve the performance of Cold In-Place recycling, which in turn benefits the agency and the recycling industry."

For more on this project, the ReFlex® process or other solutions available in your area, contact your local Road Science™ representative.



Award Winning SH 92 After 1<sup>st</sup> Winter

