



CULVERT INLET IMPROVEMENT TO EXISTING RURAL CULVERTS BY ADDING LOW COST DROP INLETS

Problem Statement:

Old culvert inlets get covered up, plugged, or lost over time, and treacherous edge drop offs are a hazard to the traveling public.

Solution:

Staff designed a culvert inlet improvement program for existing rural culverts by adding low cost drop inlets. The drop culvert was designed using a sonotube, sackcrete, a steel manhole ring, and a 24" slotted lid. By adding a low cost drop culvert built in-house that is durable - heavy rain, run-off, and snowmelt will not stand a chance with this system.

Labor, Equipment and Materials Used:

30" Round Sonotube @ \$1.60 per ft.
24" Sonotube @ \$1.40 per ft.
Sackcrete @ \$7.00 per bag
24" Slot Cover @ \$90.00 each
Old Steel Sewer Riser Ring, no cost

Savings and Benefits to Agency:

The final product allows for the preservation of culvert inlets by adding protection from debris, run-off, rocks, etc. Maintenance is minimal and quick. The pictures show the safety concerns that have been addressed by installing these drop inlet devices so ditches are not as deep at the inlets, and the hazard to the traveling public for shoulder drop off or vehicle run off roadway accidents is reduced. In some areas, the improvements have reduced drop offs from 50-inches to just 16-inches while still providing for proper drainage.

For more information, contact: Will or Scott Binegar,
Town of Snowmass Village, CO (970)-923-5110

