



## PAVEMENT PRESERVATION PROGRAM

Public Works Street Services Division maintains an inventory of all the streets in Broomfield through its Pavement Management System. Street conditions are assessed using a standardized method of pavement distress identification developed at the request of the U.S. Department of Transportation's Federal Highway Administration. Distresses for each street are stored in a pavement management database that, when applied to a formula, calculates the remaining service life (RSL) of a street section where  $RSL_{20} = \text{New}$  and  $RSL_0 = \text{Failed}$ . This system is used as a tool by staff to determine which streets need to be included in the Street Pavement Preservation Program and what treatment they should receive.

The current Street Pavement Preservation Program utilizes four methods that address improvements to existing street system pavement conditions. The various treatments, listed lowest to highest cost, include:

Street Seal Coat: Performed on streets that have a minimal amount of pavement distress. Polymer/asphalt emulsion is applied to the street surface, preserving and protecting the asphalt surface.

Mitigation 1: Performed on streets that have a moderate to severe amount of distress. Routing patching and crack sealing are performed to protect the sub-grade from further exposure caused by areas of failing asphalt.

Mitigation 2: Performed on streets that have severe pavement distress. Patching and limited sub-grade repairs are performed and a seal coat (chip seal, cape seal, double chip seal, scrub seal, or micro-surface) is applied to maximize the life of the mitigation efforts and enhance drivability.

Street Reconstruction: Process involves removal of existing pavement, reconditioning the sub-grade, and installation of new asphalt pavement.



With this approach, street segments maintain their condition for a longer period of time by seal coating rather than degrading to the point where they need a complete overlay. When mitigation is applied, the underlying structural problems are not fixed. Instead, mitigation temporarily provides a smooth riding surface and a new looking street surface. This treatment will have to be reapplied every two to three years until the street is reconstructed.

If you have any questions or concerns contact Public Works Field Services at 303.438.6334 or via [email](#).