

JEFFERSON COUNTY

TRANSPORTATION AND ENGINEERING COMPLETED PROJECTS 2007

McIntyre Street: State Highway 59 to Croke Canal

Increases in traffic Volumes warranted a larger intersection with dedicated left turn lanes and safer pedestrian crossings. The existing two-lane street was widened to four through lanes with left-turn lanes and acceleration/ deceleration lanes, and sidewalks. A pedestrian bridge over the Croke Canal and storm sewer were included in the plans by Muller Engineering. The \$4 million project was funded by the County Road and Bridge fund and the North Plains Impact Fees.



Prior to construction



After construction



The completion of the intersection

Massey Draw Stabilization

During a large storm event in June 2004, Massey Draw experienced significant erosion, including parts of adjacent residential backyards. This project stabilized the channel near Massey Circle and Allison Street by constructing boulder walls, drop structures, and bank stabilization.

The plans by Muller Engineering, included a 20-foot wide channel with boulder wall sides. Drop structures, which flatten the channels slope, minimize erosion and encourage new plant growth. The \$400,000 project was funded 50/50 by Urban Drainage and Flood Control District (UDFCD) and the Jefferson County General Fund.



Prior to construction (2004 Flood)



After construction



Construction completed

Lakewood Gulch Stabilization in Welchester Tree Grant Park

Over time, Lakewood Gulch had eroded, posing a hazard to the safety of park users and children that pass through the park on their way to Welchester Elementary School. In some areas the banks are undercut 15-feet deep. The stream was stabilized through a series of drop structures constructed to slow stream flows and reduce erosion. The vegetation lost during construction was replaced with smaller stock.

The \$300,000 project was funded 50/50 by the Urban Drainage and Flood Control District (UDFCD) and the Jefferson County General Fund.



Prior to construction



After construction



The completed project

Centerline Rumble Strips

The Transportation and Engineering Division completed almost 18 miles of centerline rumble strip installations on six roads in the Conifer, Evergreen and Ken Caryl area as part of the 2007 Traffic Safety Improvements Program. Surface Preparation Technologies, Inc., out of Pennsylvania was contracted to grind the rumble strip pattern using their customized equipment. Jefferson County now has almost 40 miles of roads with centerline rumble strips. The other roads include Deer Creek Canyon Road between S. Deer Creek Road and S. Turkey Creek Road, and Golden Gate Canyon Road from the Road & Bridge Central Shop to the county line.

The road segments that received centerline rumble strips:

- 1) Ken Caryl Avenue between Valley Parkway and Valley Road;
- 2) Deer Creek Canyon Road between Owens Street and S. Deer Creek Road;
- 3) Pleasant Park Road between US 285 and Oelmann Park Road;
- 4) North Turkey Creek Road between US 285 and High Drive;
- 5) Brook Forest Road between County Road 73 and Black Mountain Drive; and
- 6) County Road 73 between State Highway 74 and Wonderview Avenue.



Prior to construction



After construction



After rumble strips were added

Cooper Drive Reconstruction

Due to the heavy soils typically found in the Ken Caryl area of Jefferson County, a segment of Cooper Drive, from West Coal Mine Drove approximately 500-feet to the northwest, required reconstruction. Varying moisture content in clay soils caused the pavement, curb, gutter, and sidewalk on Cooper Drive to heave (rise) up, creating bumpy driving conditions. To help prevent the moisture problem and future heaving, the pavement, curb, gutter, and sidewalk was removed and reconstructed with a buried perimeter edge drain system. Portions of some driveways and yards were reconstructed to tie into the sew street. The project was designed and constructed by Jefferson County staff.



The completed project

Bergen Parkway Pedestrian Flasher

The project consisted of the construction of a pedestrian crossing improvement at the existing Buchanan Park and Buchanan Pons crossing on Bergen Parkway in Jefferson County. Improvements consisted of the installation of solar powered, wireless crosswalk lights and flashers; crosswalk striping; and traffic signage. The project provides for the improved safety of the students and other pedestrians to cross Bergen Parkway. The project cost totaled \$29,479 and was funded entirely with Federal funds.



Signal flasher