

South Boulder Road: McCaslin Boulevard to Plaza Drive



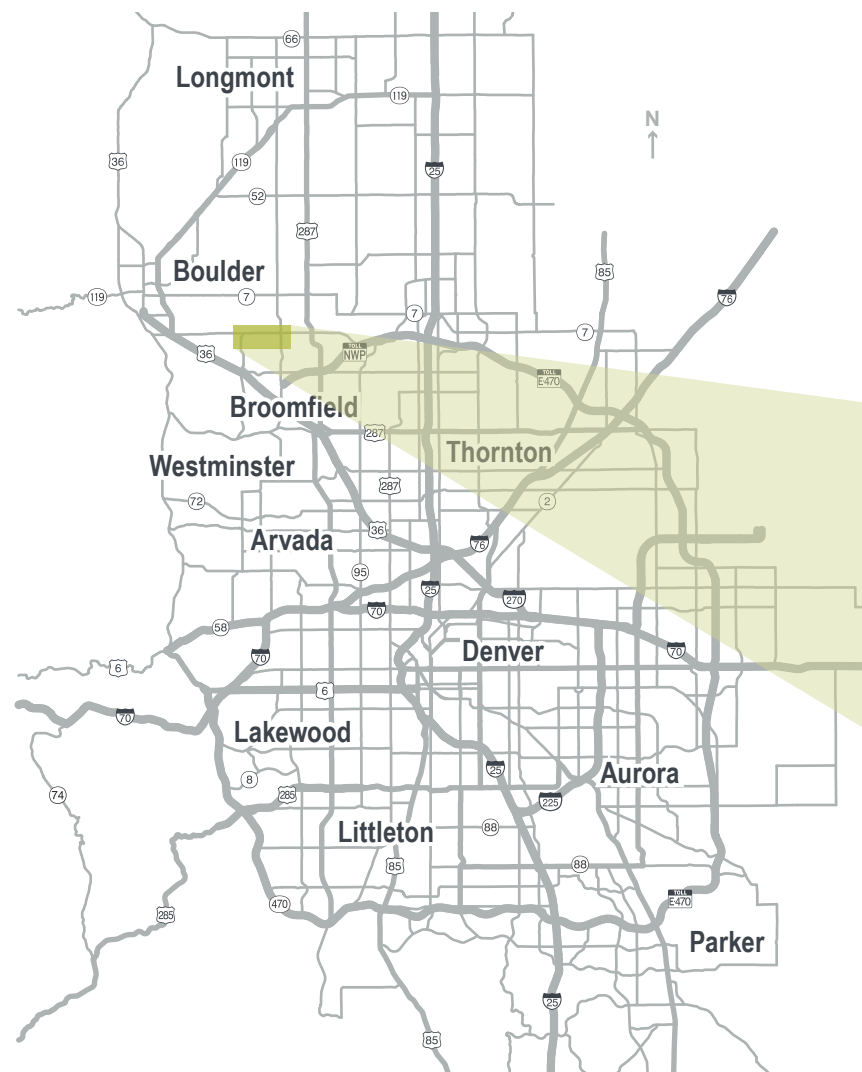
Federal Funds for Louisville

DRCOG allocated \$16,000 in federal funds for equipment upgrades within the City of Louisville, resulting in fewer delays caused by signal or sensor malfunctions.

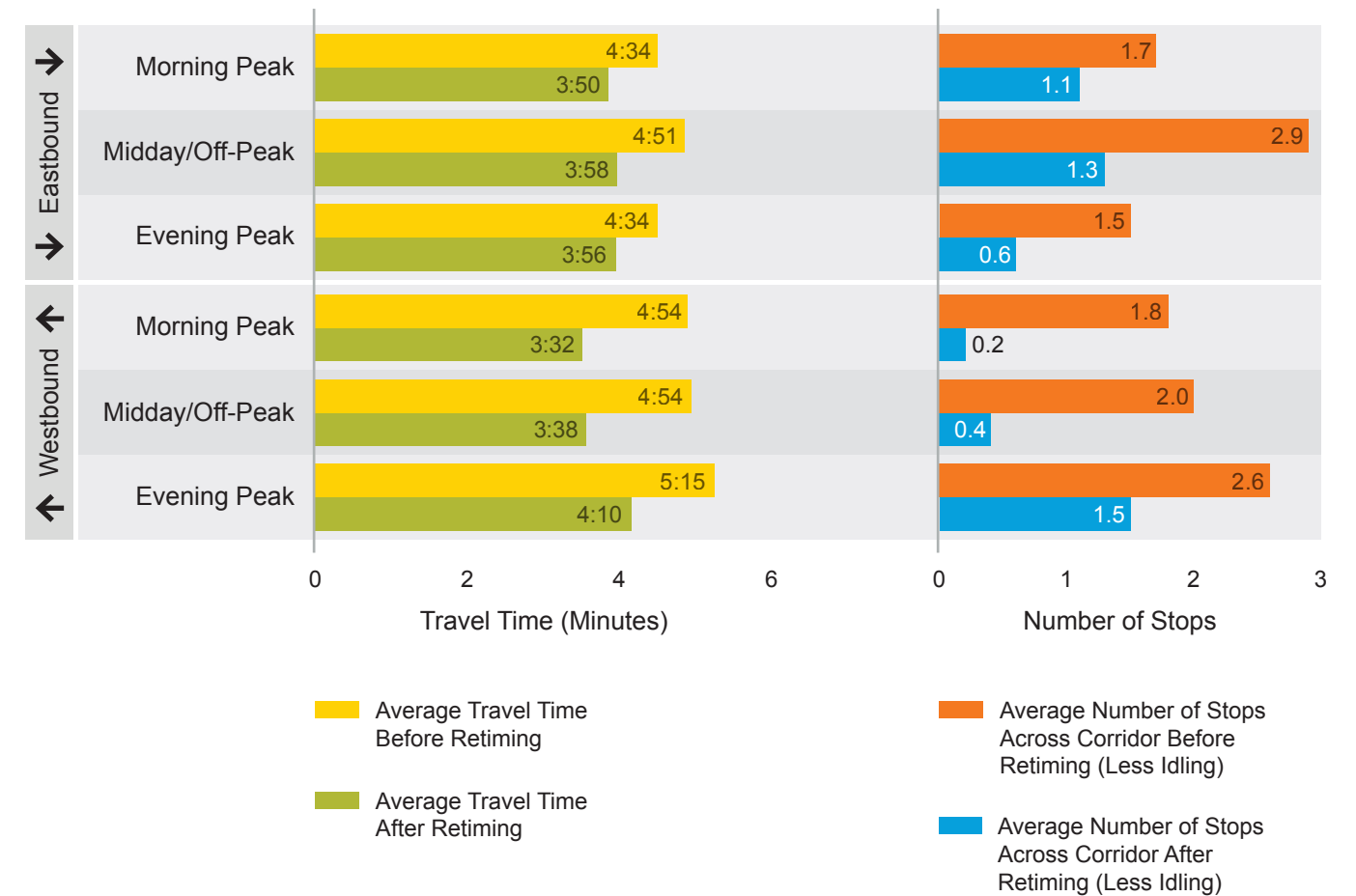
DRCOG engineering staff developed the signal timing and coordination plans in partnership with project stakeholders.

Project Achievements

Performance Measures	Daily Reduction
Vehicle travel time	321 hours
Fuel consumption	178 gallons
Time and fuel costs	\$7,500 savings daily (\$1.88 million annually)
Greenhouse gas emissions	3,732 pounds
Emissions of six EPA-regulated pollutants	43 pounds

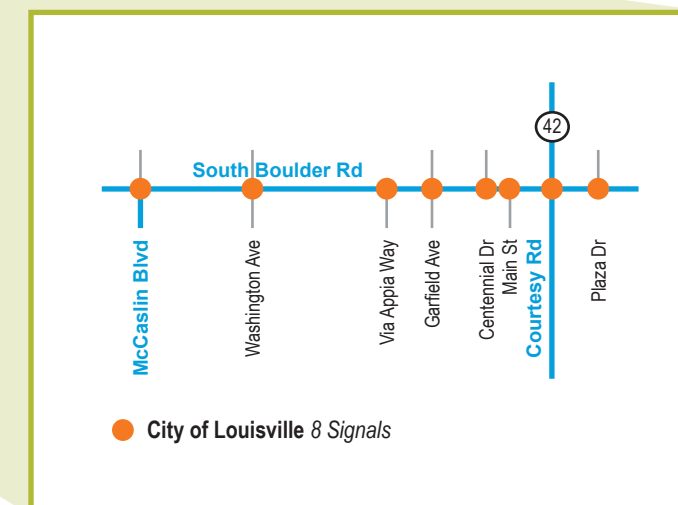


Overall Improvements



Project Scope

South Boulder Road (2.2 miles)



Traffic Signal Coordination

Traffic signal coordination allows traffic to travel along a street without stopping at every light. A major component of any coordinated signal-timing plan is properly sized cycle length shared by each intersection along the corridor. The cycle length is the time required for one sequence of signal displays (green, yellow and red) around an intersection to be lit for each approach. DRCOG's engineers evaluate cycle lengths to strike a balance between intersection capacity and delay for all users. The cycle lengths vary by time of day to account for fluctuating numbers of vehicles, bicyclists and pedestrians.

Time of day	06:30	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:30
1 S Boulder Rd & McCaslin Blvd	120-second cycle			100-second cycle						120-second cycle				
2 S Boulder Rd & Washington Ave	120-second cycle			100-second cycle						120-second cycle				
3 S Boulder Rd & Via Appia Way	120-second cycle			100-second cycle						120-second cycle				
4 S Boulder Rd & Garfield Ave	120-second cycle			100-second cycle						120-second cycle				
5 S Boulder Rd & Centennial Dr	120-second cycle			100-second cycle						120-second cycle				
6 S Boulder Rd & Main St	120-second cycle			100-second cycle						120-second cycle				
7 S Boulder Rd & State Hwy 42	120-second cycle			100-second cycle						120-second cycle				
8 S Boulder Rd & Plaza Dr	120-second cycle			100-second cycle						120-second cycle				

SIGNAL TIMING PROJECT BRIEF

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The Denver Regional Council of Governments (DRCOG) leads multijurisdictional partnerships to achieve optimal signal timing and coordination on area roadways. Traffic signal timing adjustments provide the smoothest possible flow for cars, trucks and buses. At the same time, safety is enhanced for all users, including pedestrians and bicyclists. Signal timing optimization saves drivers time and money, minimizes greenhouse gas and pollutant emissions, and enhances air quality.

For more information about signal timing, see: bit.ly/SignalRed
 For more information about DRCOG's traffic operations program, see: bit.ly/TrafficOps