

# State Highway 74 (Evergreen Parkway): Bergen Parkway North to Bryant Drive

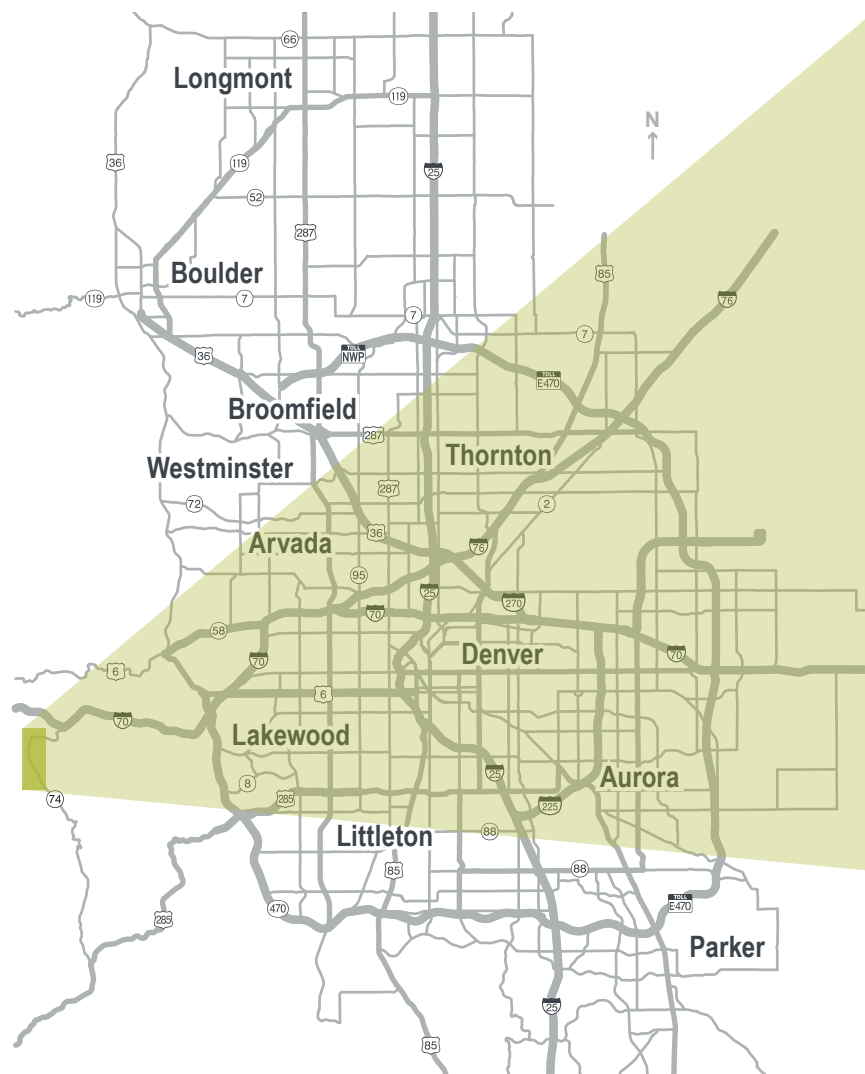


## Federal Funds for CDOT

Development of the signal timing and coordination plans for this corridor was completed using the services of a consultant: APEX Design, PC.

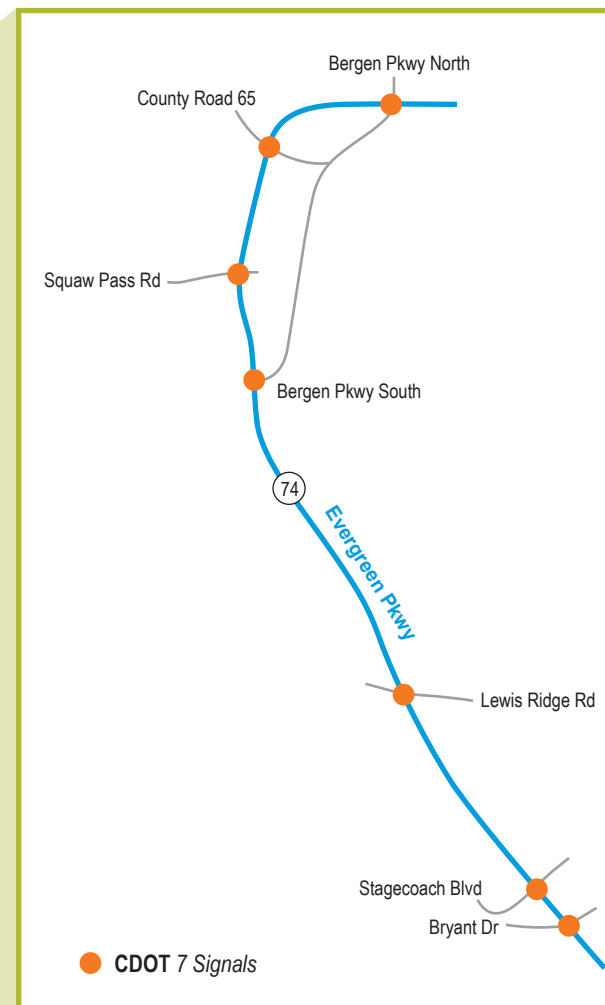
## Project Achievements

Performance Measures	Daily Reduction
Vehicle travel time	196 hours
Fuel consumption	153 gallons
Time and fuel costs	\$4,700 savings daily (\$1.18 million annually)
Greenhouse gas emissions	2,904 pounds
Emissions of six EPA-regulated pollutants	33 pounds

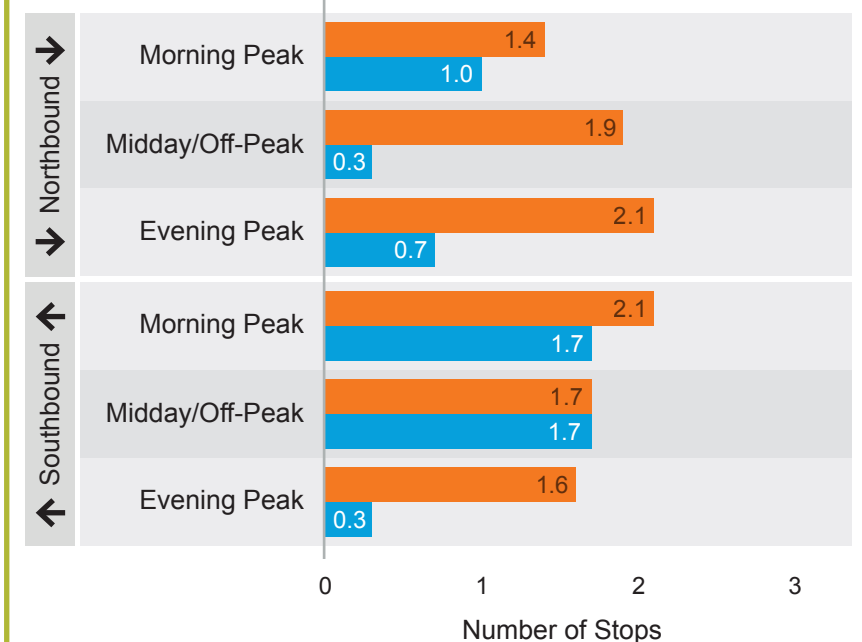
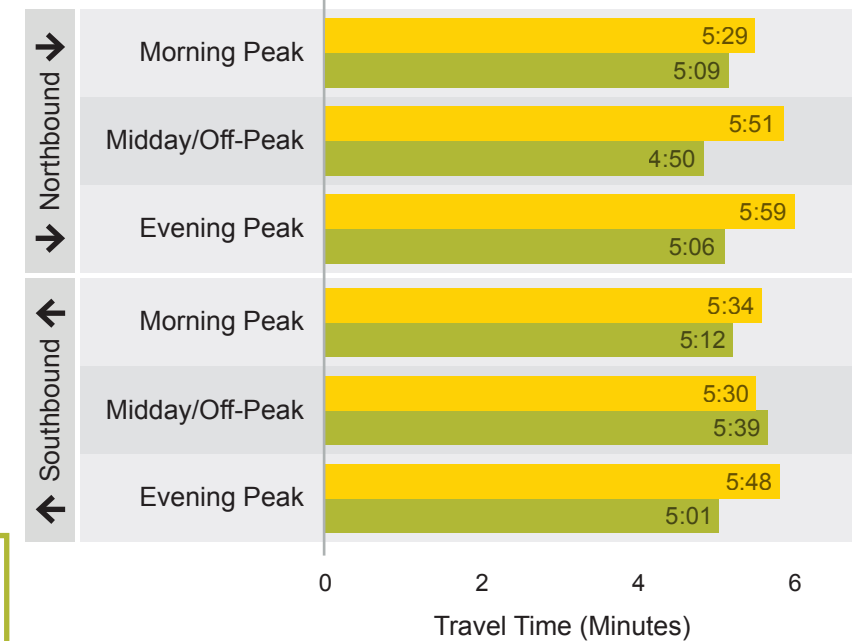


## Project Scope

State Highway 74 Evergreen Parkway  
(3.8 miles)



## Overall Improvements



Average Number of Stops Across Corridor Before Retiming (Less Idling)  
 Average Number of Stops Across Corridor After Retiming (Less Idling)

## 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	State Highway 74 & Bergen Pkwy North	110-second cycle			100-second cycle											120-second cycle
2	State Highway 74 & County Road 65															
3	State Highway 74 & Squaw Pass Rd															
4	State Highway 74 & Bergen Pkwy South															
5	State Highway 74 & Lewis Ridge Rd															
6	State Highway 74 & Stagecoach Blvd															
7	State Highway 74 & Bryant Dr															

# 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.

May 2016 - T16-12

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