

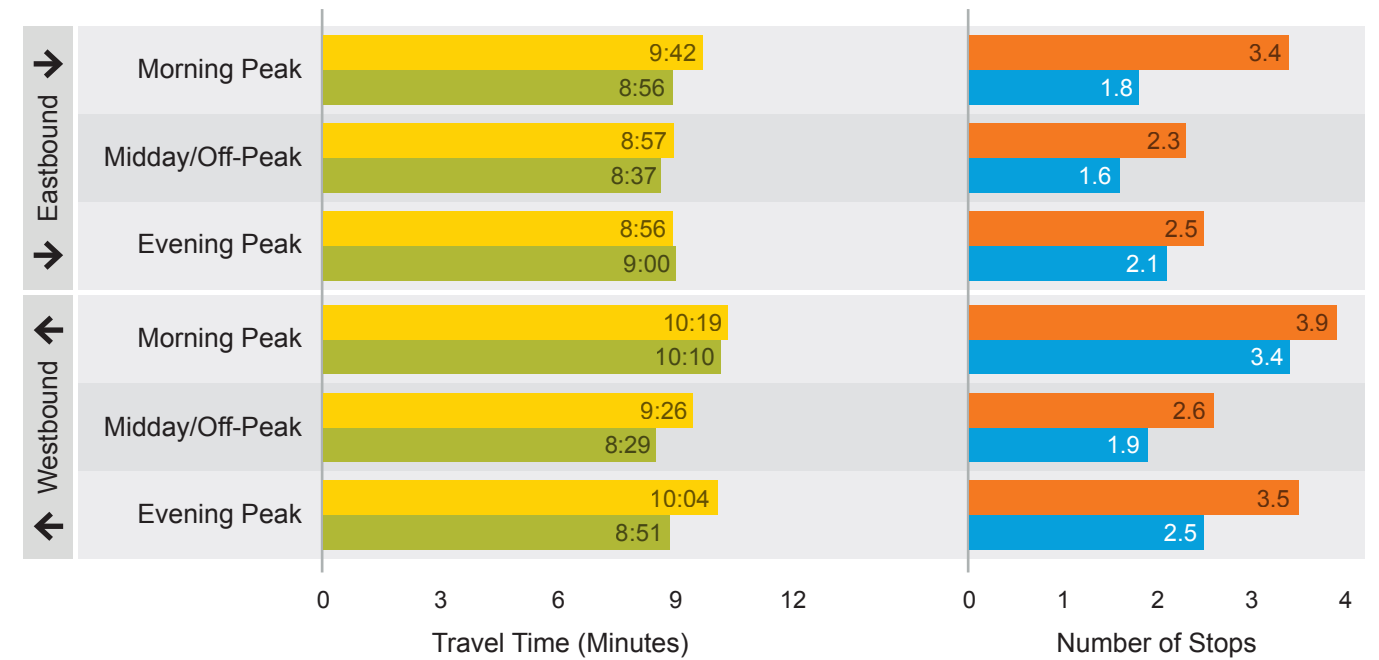
# 86th Parkway and 88th Avenue: Indiana Street to Sheridan Boulevard



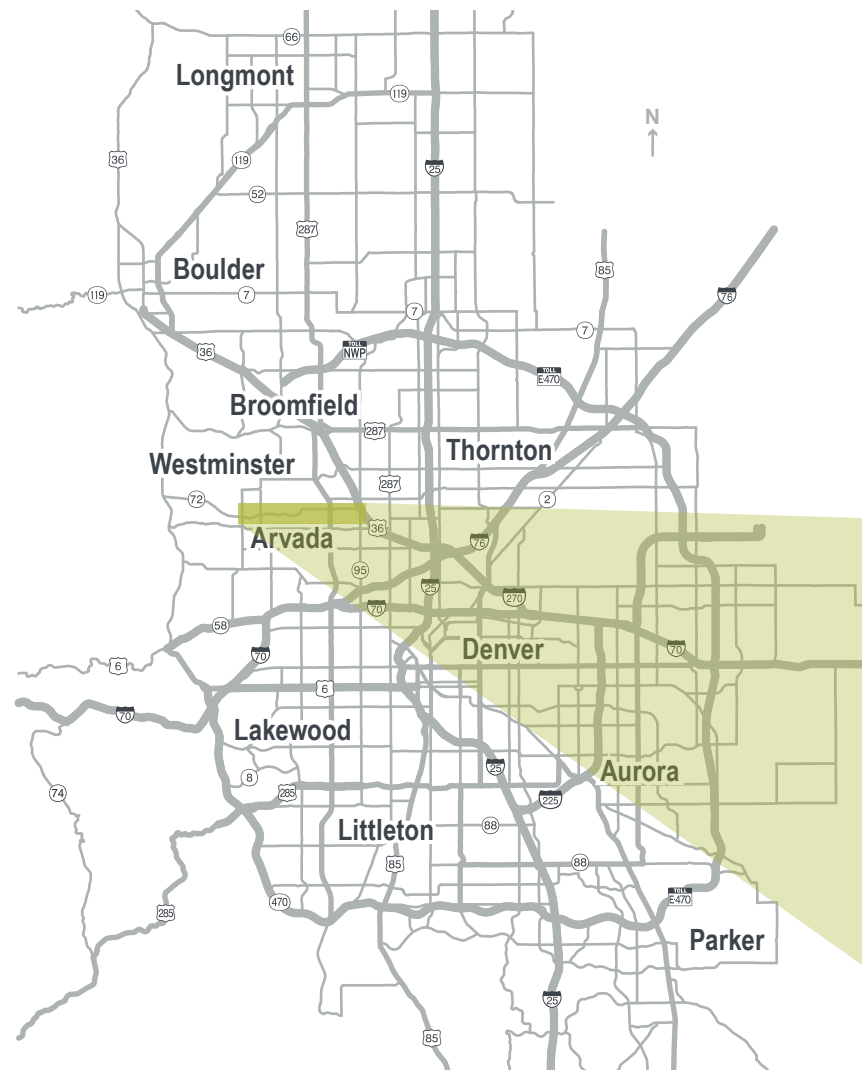
## Project Achievements

Performance Measures	Daily Reduction
Vehicle travel time	113 hours
Fuel consumption	104 gallons
Time and fuel costs	\$2,750 savings daily (\$700,000 annually)
Greenhouse gas emissions	1,996 pounds
Emissions of six EPA-regulated pollutants	21 pounds

## Overall Improvements

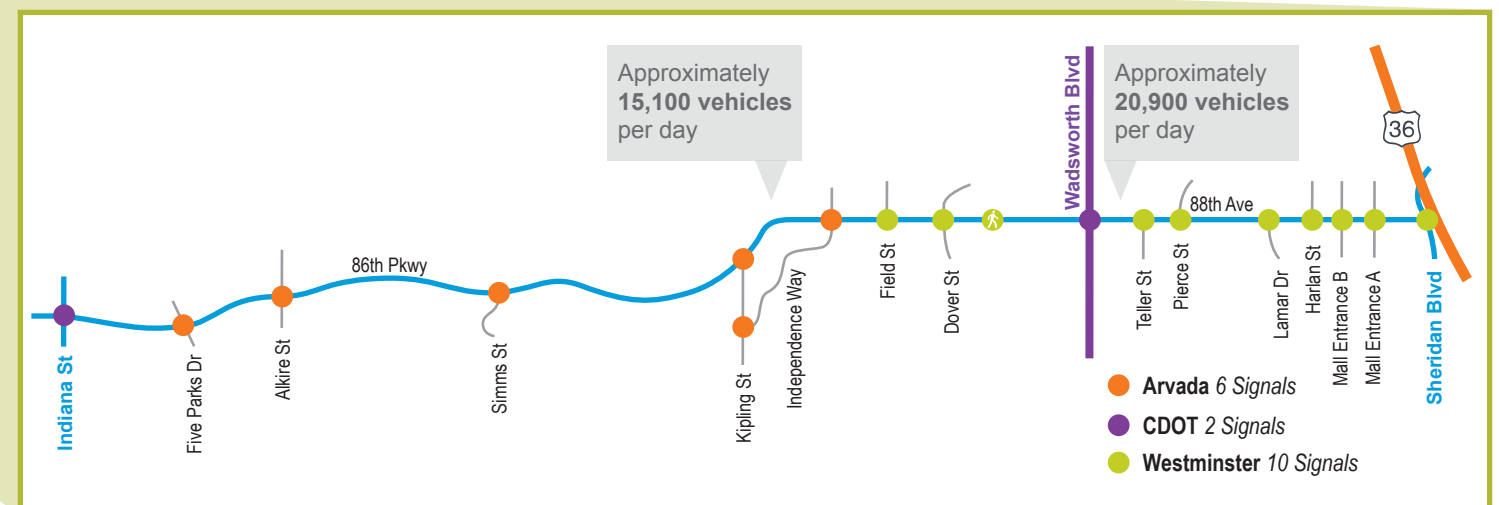


■ Average Travel Time Before Retiming  
■ Average Travel Time After Retiming  
■ Average Number of Stops Across Corridor Before Retiming (Less Idling)  
■ Average Number of Stops Across Corridor After Retiming (Less Idling)



## Project Scope

86th Parkway and 88th Avenue (6.0 miles)

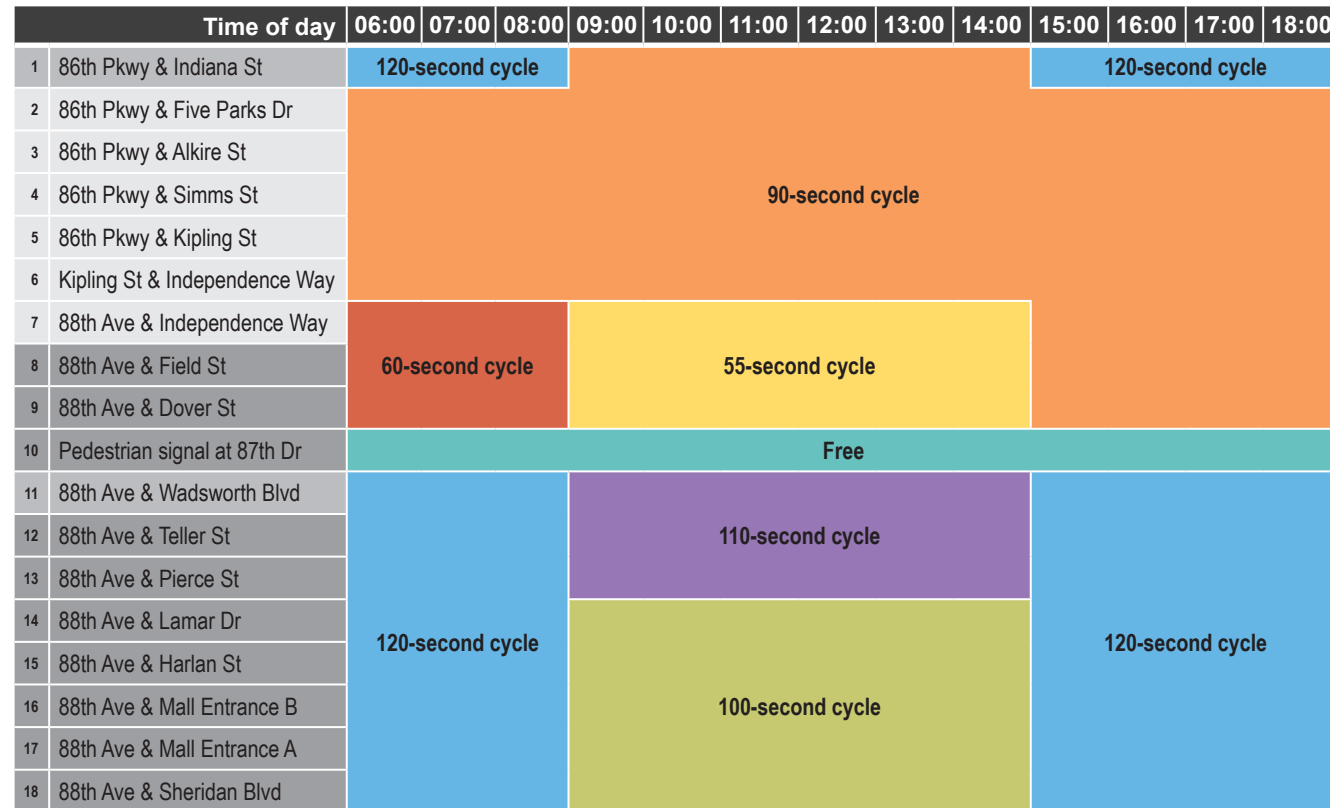


### Federal Funds for Arvada

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

## 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.



City of Arvada
  CDOT
  City of Westminster

# SIGNAL TIMING PROJECT BRIEF

## 86th Parkway and 88th Avenue: Indiana Street to Sheridan Boulevard

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 - T16-11

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)



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