

## 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	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00
1 Sheridan Blvd & Colfax Ave	120-second cycle												
2 Sheridan Blvd & 14th Ave													
3 Sheridan Blvd & 10th Ave													
4 Sheridan Blvd & 6th North Ramp													
5 Sheridan Blvd & 6th South Ramp													
6 Sheridan Blvd & 5th Ave													
7 Sheridan Blvd & 1st Ave													
8 Sheridan Blvd & Cedar Ave													
9 Sheridan Blvd & Alameda Ave													
10 Sheridan Blvd & Kentucky Ave													
11 Sheridan Blvd & Mississippi/Morrison Ave													
12 Sheridan Blvd & Louisiana Ave													
13 Sheridan Blvd & Florida Ave													
14 Sheridan Blvd & Jewell Ave													
15 Sheridan Blvd & Evans Ave													
16 Sheridan Blvd & Warren Ave													
17 Sheridan Blvd & Yale Ave													
18 Sheridan Blvd & Bates Ave													
19 Sheridan Blvd & Dartmouth Ave													
20 Sheridan Blvd & Bear Ave													
21 Sheridan Blvd & Hampden North Ramp													
22 Sheridan Blvd & Hampden South Ramp													
23 Sheridan Blvd & Kenyon Ave													
24 Jewell Ave & Depew Ave													
25 Alameda Ave & Depew Ave													
26 Alameda Ave & Harlan Ave													

■ City and County of Denver    ■ City of Lakewood

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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# SIGNAL TIMING PROJECT BRIEF

## Sheridan Boulevard (South): Colfax Avenue to Kenyon Avenue

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 - T16-7

## Sheridan Boulevard (South): Colfax Avenue to Kenyon Avenue

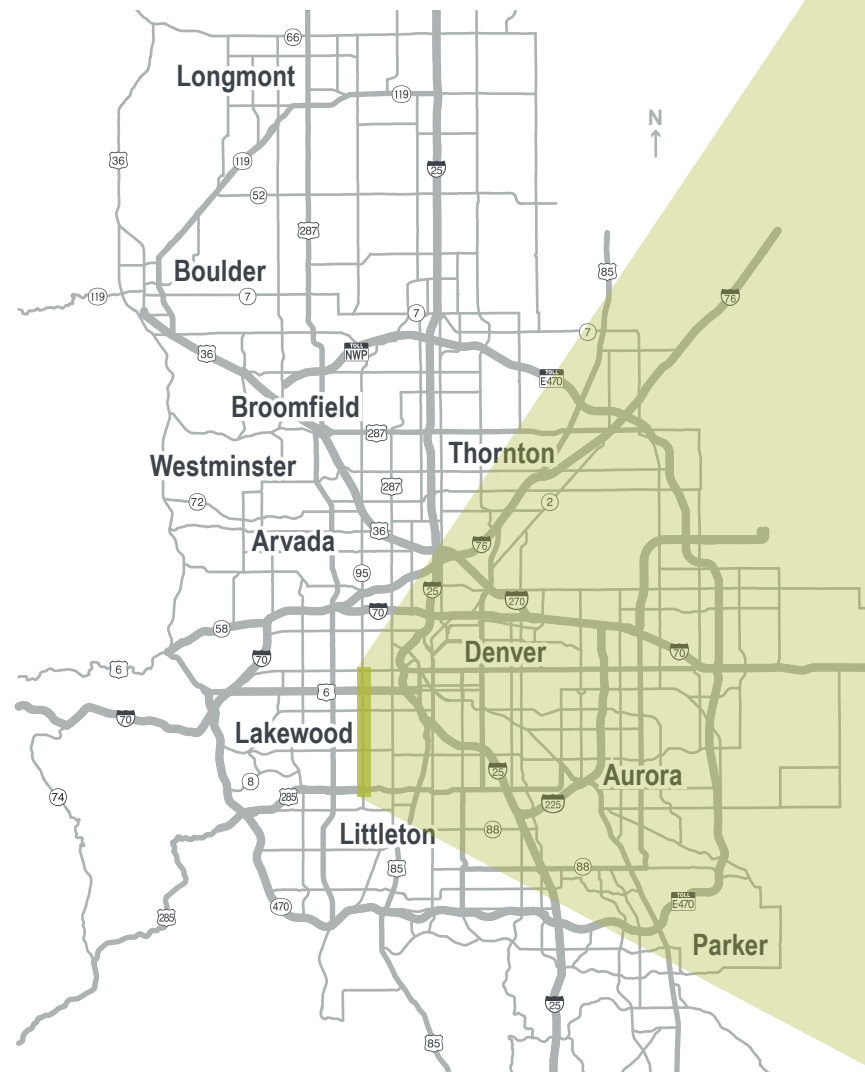


### Federal Funds for Denver

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

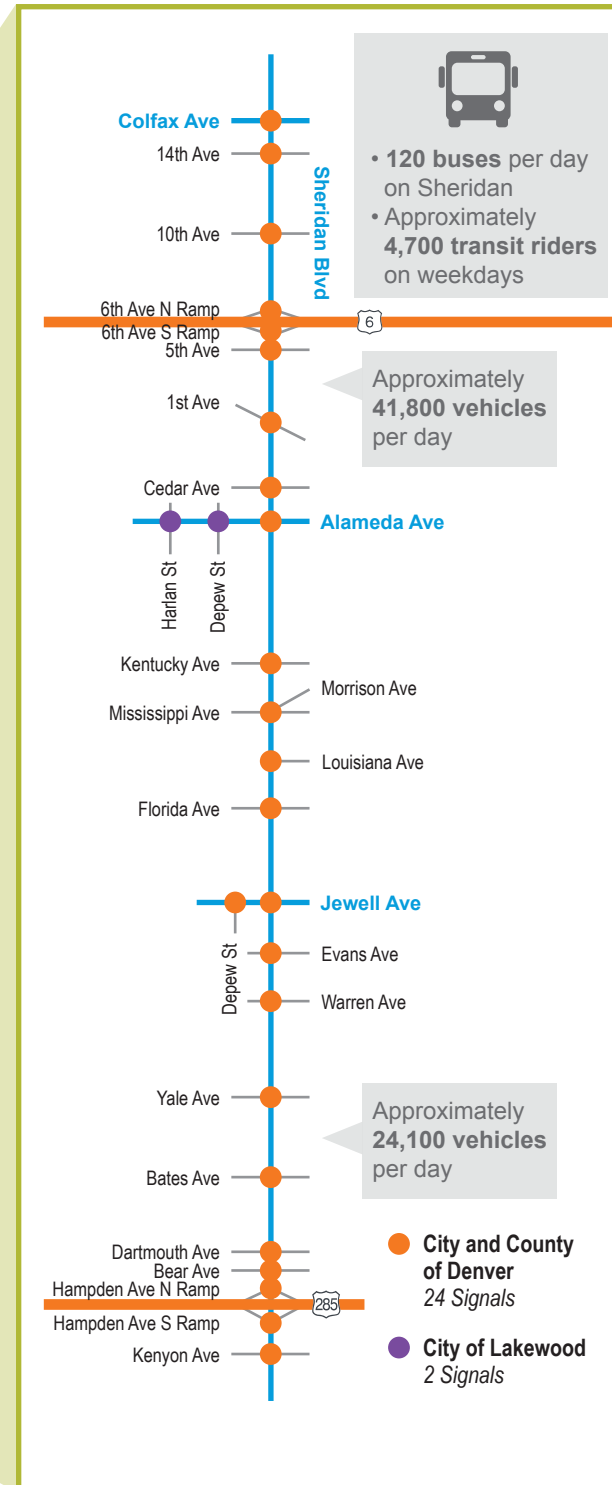
## Project Achievements

Performance Measures	Daily Reduction
Vehicle travel time	1,882 hours
Fuel consumption	1,479 gallons
Time and fuel costs	\$45,100 savings daily (\$11.3 million annually)
Greenhouse gas emissions	28,420 pounds
Emissions of six EPA-regulated pollutants	300 pounds

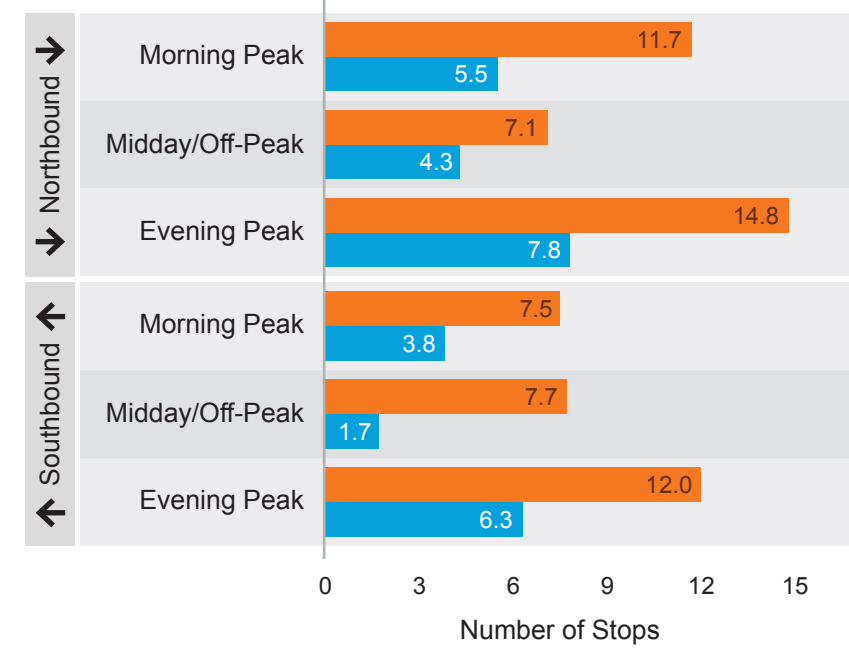
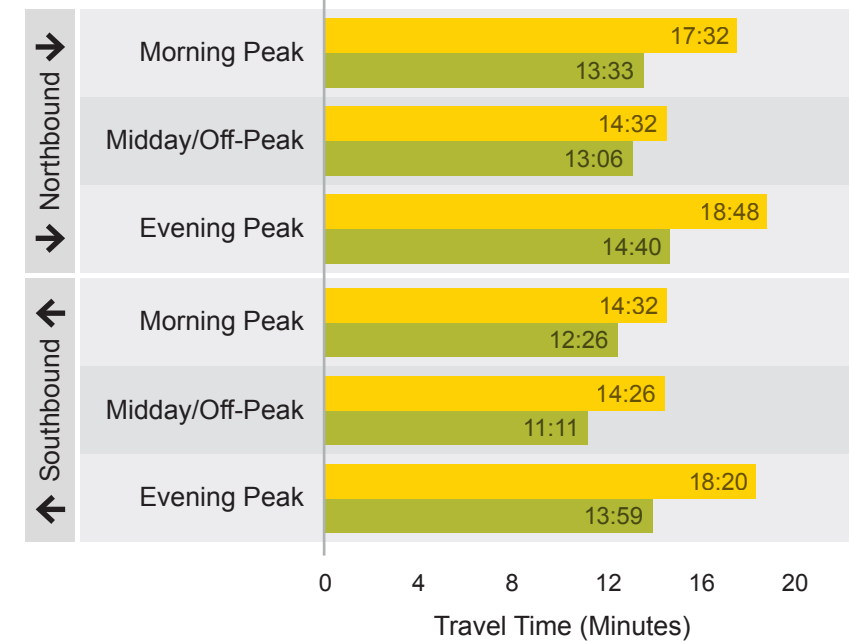


## Project Scope

### Sheridan Boulevard South (6.2 miles)



## Overall Improvements



**Legend:**

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