

Roundabout Implementation Study for the Milestone Rotary

**Nantucket Planning & Economic
Development Commission**

**Philip Weber, P.Eng.
Ourston Roundabout Engineering, Inc.**

September 11, 2006



Numerous parking and access conflicts in the southwest corner and parking lot

This is an aerial photograph of a roundabout intersection. The roundabout is a circular island with a grassy center. Four roads meet at the roundabout: Sparks Ave. to the west, Old South Rd. to the south, Milestone Rd. to the east, and Orange St. to the north. Several cars are visible on the roads. The surrounding area includes residential houses and some commercial buildings. White arrows point from the text boxes to specific areas of the roundabout and its approaches.

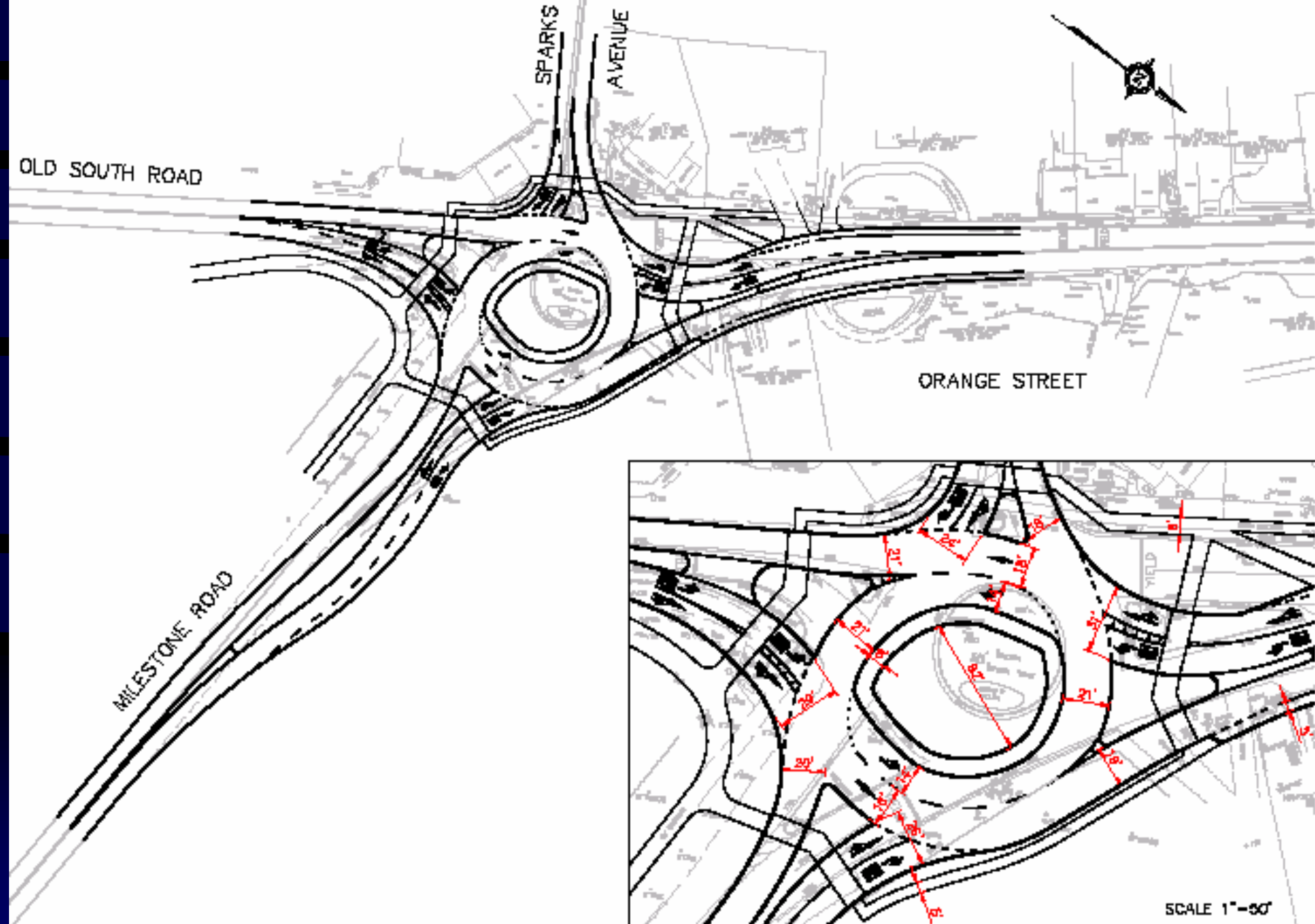
Little or no lateral deflection entering from Orange St, Sparks Ave, or Milestone Rd

Congestion being experienced on single-lane Sparks Ave and Old South Rd entries (will get worse with future traffic growth)

Motorists from Orange St and Milestone Rd enter at higher speeds in platoons and dominate rotary

Pedestrian and bicycle travel through rotary is difficult

September 11, 2006



September 11, 2006



September 11, 2006

Consolidated access to parking lot, and cut outs in splitter islands

Orange St and Milestone Rd entries realigned and central island enlarged to eliminate potential for high-speed entry crashes

Entries that flare to two lanes on Sparks Ave and Old South Rd to increase capacity

Pedestrian crossings on all four legs, and bicycle lanes on Orange St

YIELD control and more deflection to slow all motorists



September 11, 2006

