

MOSS BEACH

SR 1 CONGESTION AND SAFETY IMPROVEMENTS PROJECT

TRAFFIC SIMULATIONS FACT SHEET

The project team used a software program called **VISSIM** to simulate how SR 1 would operate for vehicles in 2050 without any project improvements and with each of the alternatives currently being considered.

Each video simulates traffic flows the middle of the day on a typical weekend in 2050, which is considered to be the worst time for traffic.

By 2050, the intersection of SR 1 and Cypress Avenue is projected to have an overall delay, meaning the total delay experienced by drivers at all 4 intersection approaches, of over 27 minutes. This delay would be reduced by 90 percent with Alternative 1 and 99 percent with Alternative 2. Each alternative would increase the time it takes to drive on SR 1 through Moss Beach by 30 seconds to 1 minute. Delay reductions would vary by intersection.

Both roundabouts and traffic signals would slow down vehicles on SR 1 and provide for more gaps in traffic. This would allow for pedestrians and bicyclists to safely cross SR 1. It would also allow cars on streets that intersect SR 1 to cross over or merge onto SR 1 more safely and with fewer crashes.

The simulations are not meant to accurately represent all future conditions. They were created to demonstrate how traffic signals and/or roundabouts could work and how travel patterns may change on SR 1. Additional traffic analysis will be completed during the next phase of project development.

Video 1 shows two simulations side by side.

Left The simulation on the left depicts the 2050 traffic flows without any project improvements.

Right The simulation on the right shows the exact same location and time of day, but with the intersection improvements included in Alternative 1 (combination roundabouts and traffic signal).

Video 2 shows two simulations side by side.

Left The simulation on the left also depicts the 2050 traffic flows without any project improvements.

Right The simulation on the right shows the exact same location and time of day, but with the intersection improvements included in Alternative 2 (traffic signals only).

Video 3 shows two simulations side by side.

Left The simulation on the left depicts the 2050 traffic flows with the intersection improvements included in Alternative 1 (combination roundabouts and traffic signal).

Right The simulation on the right shows the exact same location and time of day, but with the intersection improvements included in Alternative 2 (traffic signals only).

Video 4 shows the area between Cypress Avenue and California Ave on SR 1 with the improvements included in Alternative 1, to demonstrate how roundabouts might work in this area.



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