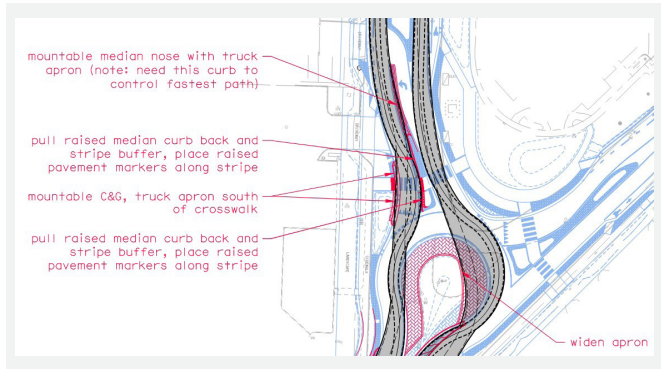


# 107' Truck Test

## DESIGN CURVEBALL AND SOLUTIONS

Golden Hill Road and Union Road are both truck routes in the City of Paso Robles. From the project planning phase, the roundabout was designed with large vehicles in mind. This was a challenge due to the intersection skew and the right of way constraints. The Wallace Group design team used simulation software to analyze various size design vehicles (STAA, California Legal, Buses, and Firetrucks) for different turning movements through the roundabout to determine locations of truck aprons around the central island and along the external curb and gutter.



# Golden Hill Road/ Union Road Intersection Improvements



### ELEVENTH HOUR

At the “eleventh hour,” the City was notified about an oversized permit vehicle that would need to be accommodated through the roundabout for specific movements. This permit vehicle was a 107’ long, 9-axle truck and trailer combo with a 10’ wide trailer that hauls large equipment with approximately 2’ overhang on each side—and the trailer only had 4.5 inches of clearance when loaded! This was quite the curveball, but the Wallace Group design team quickly modified the roundabout design to include more mountable sections and wider truck aprons. Some of the truck dimension details were not provided until mid-construction, and the construction team made adjustments to the paving and added special striping and rumble strips to balance the truck accommodations, drainage, and roundabout design requirements.

### VIDEO LINK

