

# HIGHWAY 101 WESTSIDE IMPROVEMENTS

## SOLANA BEACH, CALIFORNIA



**Owner/Client**

City of Solana Beach

**Services**

Civil Engineering, Planning, Surveying

**Construction Cost**

\$6 Million

**Completion Date**

2009 -2013

**Awards & Recognition**

- 2014 "Outstanding Community Improvement Project" - ASCE Region 9
- 2014 "Honor Award of the Year" - American Public Works Association
- 2013 "Award of Excellence: Urban Design & Beautification" - American Society of Civil Engineers

**Project Summary**

Nasland Engineering was retained, as a prime consultant, by the City of Solana Beach to prepare and process a plan for traffic calming and streetscape improvements on Highway 101 throughout the City limits. The project's design principle was to incorporate traffic calming, but keep efficient traffic flow. Several project options were developed, including various concepts of roundabouts, lane reductions, bicycle striping, signalization and traffic calming measures, all analyzed for traffic impacts, effect of bypass traffic and brought to the community and City council for review and discussion.

After approval of the project design by the community, City Council, and the Coastal Commission, construction documents were prepared by Nasland Engineering. The final design consisted of an effective traffic calming project embraced by the community including: a widened sidewalk area to promote walkability and streetfront business uses; angular parking to increase the overall amount of parking as desired by the business community, curb pop-out including are as for pocket-parks, art elements, and community gathering places; sharrow lanes to promote bicycle modes of transit; mid block pedestrian crossings for connectivity to the east side of the Community; narrower travel lanes for traffic calming.

The overall project design goals promote traffic calming, reducing vehicles speeds and promote walkability and bicycle use in the community. Contractor bids were opened in May 2012 with a low bid of approximately \$6,000,000, which was within 1% of the engineer's estimate.

- Project Highlights**
- Complete Street Design
  - Decorative Lighting and Street Furniture
  - Two Lighted Mid-block Pedestrian Crossings
  - "Sharrow" bike lane
  - Diagonal Parking, narrow traveled lanes
  - Drought Tolerant, Native Landscaping
  - Eight Parkway bio-retention basins
  - Public Art Nodes

"Nasland has been involved with the Highway 101 Improvement project for the past five years. We have been extremely pleased with Nasland's roadway design/streetscape expertise and quality of deliverables. I highly respect their professionalism and innovative thinking."  
*Mo Sammak, City Engineer  
City of Solana Beach  
June 2013*

