

MEMORANDUM

Date: March 18, 2016

To: Katie Yim, Caltrans

From: Ron Sanzo, Sandis

Subject: Roundabout Feasibility Considerations for the Intersection of Cypress Ave. and Rte. 1

The purpose of this memo is to present the findings regarding the feasibility of utilizing a roundabout facility at the intersection of Rte 1 and Cypress Ave. in Moss Beach, San Mateo County.

As required by section 4C.01 of the MUTCD, the feasibility of a roundabout facility was examined as part of this project. Several physical and geometric constraints contributed to the determination that a roundabout would not be feasible at the project site. These constraints are detailed below and within the attached Roundabout Feasibility Exhibit, EX-1.

Per the Big Wave North Parcel Alternative Draft Transportation Impact Analysis prepared by Hexagon Transportation Consultants dated August 28, 2014, a bypass lane for the southbound right-turn traffic would be required in order for the roundabout facility to function at an acceptable level of service. This required bypass would extend well outside of Caltrans right of way and would encroach significantly into two existing land parcels.

Per the U.S. Department of Transportation's Roundabout Geometric Design Guidelines the roundabout would have a required minimum inscribed circle diameter of 115 feet. This large diameter would lead to conflicts with existing drainage facilities on the southeast corner of the intersection. This drainage facility would likely need to be redesigned in order to accommodate the new roadway.

The new roundabout could also have significant impacts to the existing surface hydrology as well. The larger surface area of the intersection has the potential to produce higher volumes of surface runoff during storm events which could impact local drainage facilities.

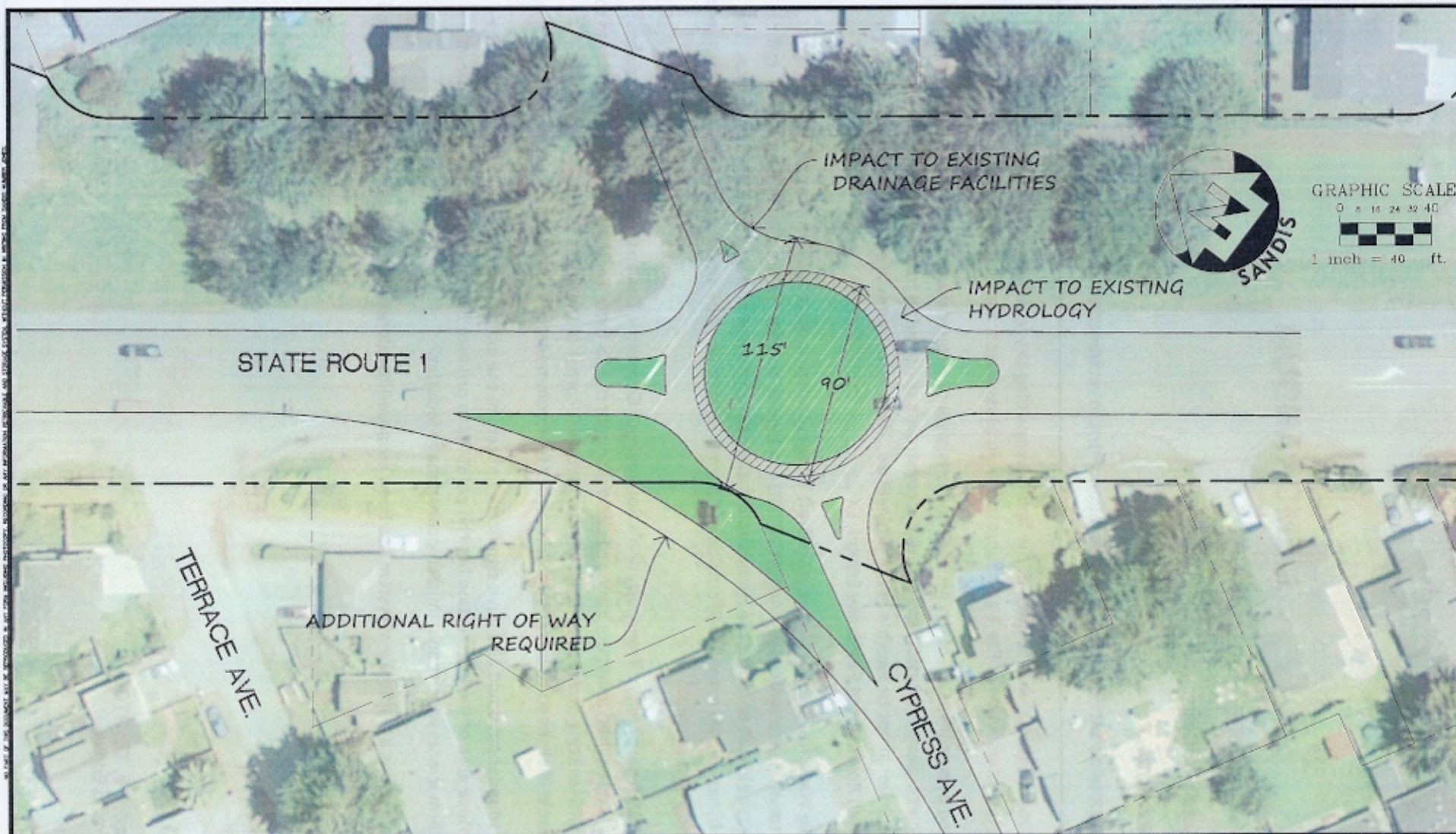
For these reasons a traffic signal system has been proposed to address traffic impacts at the site instead of a roundabout facility.


Sincerely,



SANDIS

Ron Sanzo, PE, TE, PTOE
Senior Traffic Engineer



 SANDIS CIVIL ENGINEERS DESIGNERS PLANNERS <small>609 West Street Oakland, CA 94607 P. 510.475.8800 www.sandis.com</small> SILICON VALLEY TRI-VALLEY CENTRAL VALLEY EAST BAY/SP	<small>DATE: 02-02-16 SCALE: 1"=40' DRAWN BY: DL APPROVED BY: FEL DRAWING NO: 615074</small>	CORRIDOR IMPROVEMENTS HIGHWAY 1 MOSS BEACH CALIFORNIA	ROUNDABOUT FEASIBILITY EXHIBIT SHEET EX-1 <small>OF 1 SHEETS</small>
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