

February 8, 2010



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## Review of Proposed Improvements for Harris Quarry

Dear Mr. Allen;

Whitlock & Weinberger Transportation (W-Trans) has recently completed the *Updated Supplemental Traffic Impact Analysis for the Harris Quarry* in the County of Mendocino. As part of the analysis, numerous mitigation measures were recommended to ensure continued acceptable operations of US 101 within the vicinity of the project area with the development of the proposed project. Following is a summary of the recommended mitigation measures that should be installed immediately to offset the impacts associated with any increase in Quarry production.

- Install a 469-foot left turn lane for northbound traffic at the Quarry entrance.
- Install a northbound acceleration lane. Since the calculated length of 1,710 feet needed to serve project volumes exceeds the available distance between the Harris Quarry access and Black Bart Drive a special lane designation to permit left-turns onto Black Bart Drive and acceleration for both left-turns from Black Bart Drive and acceleration from the Harris Quarry access to northbound US 101 will need to be developed. The extension of the left turn acceleration lane through the intersection at Black Bart Drive will also allow acceleration by drivers turning left from Black Bart Drive.
- Install an approximately 200-foot right turn lane for southbound traffic at the Quarry entrance. This lane should not extend to Black Bart Drive to avoid having drivers destined for the Quarry entering the right-turn lane north of Black Bart Drive.
- Install an acceleration taper for trucks making the right turn onto US 101 southbound at the Quarry entrance to allow for some acceleration prior to entering the travel lane.
- Install "Slow Trucks" warning signs (CA-MUTCD W51(CA)), with flashing beacons for both the northbound and southbound approaches to the Quarry Access Driveway.

An additional mitigation was recommended for the year 2040 with implementation of the project.

- Install a 1,390-foot-long speed change acceleration lane for trucks turning right onto US 101 southbound at the Quarry entrance to allow for full acceleration prior to entering the travel lane.

On February 5, 2010, Ms. Cathy McKeon of Rau and Associates provided us with sheets PD-1 through PD-4 of the Draft Improvement Plans titled *Harris Quarry Operation Highway 101 Channelization*. Based upon a review of these plans, the proposed improvements meet or exceed the recommended mitigation measures.

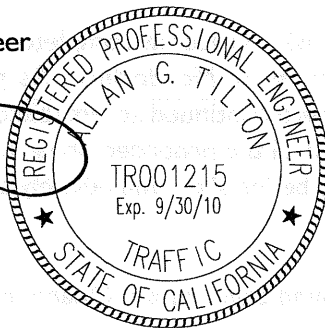
In fact, the Draft Improvement Plans include installation of the southbound right turn acceleration lane with other improvements even though it is not projected to be required until the year 2040.

We hope that this information addresses the adequacy of proposed improvements for Harris Quarry. Please feel free to call if you have any questions.

Sincerely,

Tony Henderson, EIT  
Assistant Transportation Engineer

Allan G. Tilton, PE  
Senior Associate



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Copy: Ms. Cathy McKeon, Rau and Associates