

# Memorandum

*Serious Drought.  
Help Save Water!*

To: MR. JOSEPH E. DOWNING  
Chief, Bridge Design Branch 3  
Office of Bridge Design West  
Division of Structure Design

Attention: Mr. Jose M. Aquino III, P.E.

Date: September 30, 2015

File: 02-SHA-5-PM 29.72  
EA 02-0E0901  
ID 0200000016  
Shasta Viaduct  
(Replace)  
Br. No. 06-0212L

From: **DEPARTMENT OF TRANSPORTATION  
DIVISION OF ENGINEERING SERVICES  
GEOTECHNICAL SERVICES – MS 5**

Subject: Addendum to Revised Foundation Report for Shasta Viaduct (Replace)

The Office of Geotechnical Design North (OGD-N) has prepared this addendum to revised Foundation Report (FR) for the proposed Shasta Viaduct (Br. No. 06-0212L), which will replace the existing Sidehill Viaduct (Br. No. 06-0042L). The bridge is located on Interstate 5 approximately 15 miles north of Redding in Shasta County.

**The cut-off elevations for Arch Footing 2 and 6 in Table 3, Pile Foundation Recommendations, of the Revised Foundation Report dated March 12, 2015 are amended as follows:**

**Table 3. Pile Foundation Recommendations**

Support Location	Cut-off Elevation (ft)
Arch Footing 2 Left, Pile A	1355.04
Arch Footing 2 Left, Pile B	1355.04
Arch Footing 2 Left, Pile C	1355.04
Arch Footing 2 Left, Pile D	1355.04
Arch Footing 2 Right, Pile A	1346.02
Arch Footing 2 Right, Pile B	1346.02
Arch Footing 2 Right, Pile C	1346.02
Arch Footing 2 Right, Pile D	1346.02

**Table 3. Pile Foundation Recommendations (continued)**

Support Location	Cut-off Elevation (ft)
Arch Footing 6 Left, Pile A	1326.62
Arch Footing 6 Left, Pile B	1326.62
Arch Footing 6 Left, Pile C	1326.62
Arch Footing 6 Left, Pile D	1326.62
Arch Footing 6 Right, Pile A	1308.61
Arch Footing 6 Right, Pile B	1308.61
Arch Footing 6 Right, Pile C	1308.61
Arch Footing 6 Right, Pile D	1308.61

This addendum only changes the pile cut-off elevations for Arch Footings 2 and 6. No changes to the design and specified pile tip elevations are necessary. All other information and recommendations in the March 12, 2015 Revised Foundation Report remain applicable.

### **Project Information**

“Project Information,” discloses to bidders and contractors a list of pertinent information available for their inspection prior to bid opening. The following is information originating from Geotechnical Services.

*Data and information attached with the project plans are:*

- A. Log of Test Borings, Shasta Viaduct (Replace), Br. No. 06-0212L.

*Data and information included in the Information Handout provided to the bidders and contractors are:*

- A. Revised Foundation Report, Shasta Viaduct (Replace), dated March 12, 2015.
- B. Suspension P-S Logging.
- C. Seismic Refraction Survey.
- D. Tomographic Survey.
- E. Laboratory Unconfined Compressive Strength and Point Load Test Data.
- F. Addendum to Revised Foundation Report, Shasta Viaduct (Replace), dated June 22, 2015.
- G. Addendum to Revised Foundation Report, Shasta Viaduct (Replace), dated September 30, 2015.

*Data and information available for inspection at the District Office:*

A. None.

*Data and information available for inspection at the Transportation Laboratory:*

A. Core samples.

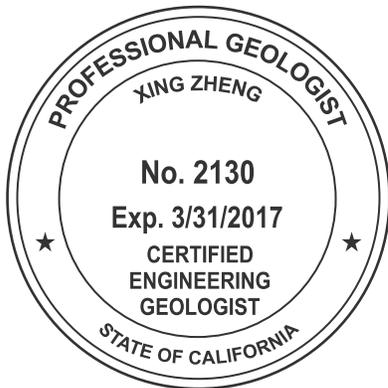
If you have any questions regarding this report, please contact Xing Zheng at 227-1036, Ben Barnes at 227-1039, or Reid Buell at 916-227-1012.



Xing Zheng, C.E.G. No. 2130  
Engineering Geologist  
Geotechnical Design – North



Benjamin M. Barnes, P.E. No. 66090  
Transportation Engineer  
Geotechnical Design – North



**Report Copy List**

Reid Buell, Branch Chief, OGDN-A  
Phil Baker, Project Manager  
Byron Berger, District Material Engineer  
Structure Construction R.E. Pending File  
Mohsen Sultan (DES Office Engineer)  
Geotechnical Archive