

Memorandum

To: MR. KEVIN ROSS
Department of Transportation
Structure Design
Office of Bridge Design - South
Bridge Design Branch 12

Date: January 30, 2002
File: 11-SD-56-KP3.3/10.1
11-172821
Misc. Bridges
57-misc



From: DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Geotechnical Services
Office of Geotechnical Design - South
Structure Foundations South - Branch

Subject: Settlement Waiting Periods

As requested by the Office of Bridge Design – South, this memorandum provides Settlement Waiting Periods for the proposed structures along Route 56 in San Diego County. The recommendations provided below are applicable to the following structures:

Carmel Valley Road Undercrossing	57-1077R/L
Gonzales Creek Bridge	57-1078 R/L/S/K
Camino Santa Fe Overcrossing	57-1079
Rancho Santa Fe Farms Road Overcrossing	57-1080
Vehicular Undercrossing	57-1081 R/L
McGonigle Creek Bridge	57-1082 R/L
Camino Ruiz Undercrossing	57-1083 R/L

For site-specific geology, seismic information and foundation recommendations please refer to the original or amended Foundation Recommendations memorandums prepared for each structure.

Based on the Foundation Plans for each of the structures it appears that the abutments will be situated on either formational materials or engineered fill constructed for the roadway approaches to the bridge structures. The engineered fill will be placed over granular alluvial soils and/or granular formational materials. We understand that the engineered fill placed for the approaches will be composed of the native, granular soils. Engineered fill at the abutment locations should be compacted to at least 95 percent relative compaction per Section 19-5.03 of the Standard Specifications.

Due to the granular nature of the soils, primary settlement is expected to occur immediately and concurrent with fill placement. However, all newly placed engineered fill shall undergo a 30-day waiting period prior to beginning construction of the abutments spread footings or installation/construction of support piles to allow any settlement that may occur to cease. The contractor may install settlement monuments to record settlement measurements to determine if settlement has ceased prior to the 30-day waiting period. If it is shown that settlement has ceased prior to the end of the 30-day waiting period, the contractor may begin construction of the abutment structures with written approval of the structure representative.

The settlement waiting periods contained in this report are based on specific project information provided by the Office of Bridge Design – South. The recommendations and information provided in the original and/or amended Foundation Recommendations memorandums prepared for the proposed structures are still applicable with the addition of the above mentioned settlement waiting periods. Any questions regarding the above settlement waiting periods should be directed to the attention of Mark DeSalvatore 916-227-7056.

Date: 1/30/02



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- c: R.E. Pending File
DBarlow – Specs & Estimates
TRuckman – Specs & Estimates
LLuce – Project Mgmt
LHuynh – PCE
~~XXXXXXXXXX~~
RHillman – District 11
JChai – OGDS
AAbghari – OGEE
Geology – North
Geology – South (2)
RGES.31