APPENDIX F

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NOTICE DOCUMENT NO. 1
NOTICE OF NON-COMPLIANCE ISSUED BY CITY OF LOS ANGELES
The following 4" HDPE drains have not been acceptably constructed as noted.

1.) D1 is installed 3' outside horizontal tolerance at critical points sta 4+12, sta 3+25.

2.) C2 is installed 1.8' below vertical tolerance at exit point.

3.) C5 is installed 2.4' outside horizontal tolerance and 1.5' below vertical tolerance at exit point.
APPENDIX F

NOTICE DOCUMENT NO. 2
RESPONSE TO NOTICE OF NON-COMPLIANCE BY SHANNON & WILSON
May 20, 2013

City of Los Angeles  
Bureau of Engineering  
1149 South Broadway Street, Suite 120  
Los Angeles, California 90015

Attn: Mr. Mark Oborne

RE:   NOTICE OF NON-COMPLIANCE, WHITE POINT DEWATERING PROJECT, LOS ANGELES, CALIFORNIA

This letter presents our response to a Notice of Non-Compliance (Notice) issued to Hayward Baker, Inc. (HBI) by the City of Los Angeles (City) on March 3, 2013. Mr. Mark Oborne of the City requested our comment on the Notice via email on May 7, 2013. The City issued the Notice in response to installation of horizontal directional drilling drains by HBI that do not comply with the contract documents. The contract documents include plans and specifications for the White Point Drainage Project dated January 24, 2013, approved submittals, RFIs, and our responses.

SUMMARY OF NOTICE

The Notice issued by the City states HBI installed Drains C-2, C-5, and D-1 outside the tolerances required by the contract documents. Drains C-2 and C-5 are not compliant to the required tolerances at the drain exit points. Drain D-1 is not compliant to the required tolerances at the critical points. The critical points are two intermediate locations on the drain alignments specified by the contract documents.

DESIGN SPECIFICATIONS

The drain location tolerances identified in the contract documents are intended to preserve adequate spacing between the drains (10 feet minimum). Adequate drain spacing will reduce the risk associated with constructing ground anchors between the drains during the second phase of repairs following the 2011 Landslide. The proposed ground anchor locations are closest to the critical points specified on the drain alignments in the contract documents, meaning drain alignments nearest the critical points have the greatest impact on risk.
ACCEPTIBILITY OF WORK

There are three issues regarding the non-compliant drains:

- Function of the drains;
- Exit locations of the drains, and;
- Ground anchor installation interference.

Our opinion on the acceptability of the non-compliant drains for each of the issues is summarized in the following sections.

Drain Function

Based on the survey data provided by HBI and our visual observations, we consider the function of the non-compliant drains acceptable. It is our opinion that the downward grade is sufficient to facilitate water discharge. Drains C-2 and D-1 are dry as of our last measurement on April 29, 2013 (see our Field Activity Report [FAR] No. 56); however, seven compliant drains noted in FAR No. 56 are also dry. The Drain C-5 discharge rate was 0.05 gallons per minute as noted in FAR No. 56.

Exit Locations

The non-compliant exit locations for Drains C-2 and C-5 could impact the design of the discharge structure at these locations. The drains exit below the elevation tolerances specified in the contract documents such that the discharge structure, currently in final design, could require design modifications. These modifications may require additional design effort, but the exit locations are acceptable in our opinion.

Please also note that HBI installed Drain D-2 below the specified elevation tolerances, but was granted a variance on February 27, 2013 in Response to RFI 2.0. The actual location of Drain D-2 could also require design modifications to the discharge structure.

Ground Anchors

The non-compliant Drain D-1 will impact construction of the western-most ground anchors. Drain D-1 is 6.5 feet east of the design location at Critical Point #1 and 8.5 feet east of the design location at Critical Point #2. We have reviewed possible modifications of the westernmost
tieback anchor design during construction. The review may lead to possible change of anchor position, skew angle, or inclination, or could require deletion of the two western ground anchors.

We recommend that modifications to the two western ground anchors occur after installation of the test anchors and possibly the eastern anchors. The purpose of installing these initial anchors would be to observe the actual drilling tolerances for the ground anchors in the field during construction. Based on the drilling performance, the final modification to the western anchors could be developed based on the observed tolerances in the field. We recommend that the production anchors be installed from east to west.

SUMMARY

We recommend the City accept the non-compliant drains described in the Notice. The drains are functional and the impacts to the exit locations and ground anchors could be mitigated by redesign of these systems to accommodate the drain locations.

Respectfully,

SHANNON & WILSON, INC.

R. Travis Deane, P.E., G.E.
Senior Associate

JXM:JZB:RTD/jzb

c:  Mr. Christopher Johnson and Mr. Gene Edwards, City of Los Angeles (electronic copy only)