

August 20, 2014

Mr. Amish T. Bhatt, S.E., P.E.

**AECOM**

303 East Wacker Drive, Suite 1400

Chicago, IL 60601

Reference: Letter Report for Subsurface Investigation  
Existing Wall 12 Foundation Elevations  
Circle Interchange Reconstruction  
IDOT D-91-227-13, PTB 163/001  
Wang No. 1100-04-01

Dear Mr. Bhatt,

This letter report presents the results of Wang Engineering, Inc.'s (Wang) subsurface investigation to determine the top of footing depth/elevation for the existing Retaining Wall 12. Retaining Wall 12 all is located on the north side of westbound I-290 between South Morgan Street and South Aberdeen Street where a new retaining wall, labelled as Wall 7 is proposed. The investigation was performed near the front face of the existing wall at four locations selected by AECOM along the wall. A plan showing the site and wall alignment together with the probed locations is presented as Exhibit 1.

Wang's scope of work was to determine the depths/elevations of the top of existing Retaining Wall 12 footing at four locations along the wall alignment. The field investigation was performed on August 13 and 14, 2014. Wang conducted four hand auger test holes using an electric jackhammer and geoprobe sampling equipment. Each location was selected no more than 3 feet offset from the existing wall face to ensure the wall footing will be uncovered. Upon sampler refusal, the advanced rods and sampler length was measured up to the existing ground surface. Since we selected to take the top of the wall as the reference point at each investigated location, the distance from the ground surface to the top of the footing was added to the height of the wall measured from the existing ground surface to the top of the wall. The top of the wall elevations in *City of Chicago Datum* (CCD) as determined from 1959 drawings, the lengths

measured from the top of the wall to the top of the footing, and the estimated top of the footing elevations in CCD are summarized in Table 1.

Table 1: Existing Retaining Wall 12 Footing Investigation Results

Location ID	Top of Wall Elevation (CCD Feet)	Distance Top of Wall Top of Footing (Feet)	Estimated Top of Footing Elevation (CCD Feet)
07-HA-01	16.29	14.11	2.18
07-HA-02	15.65	11.75	3.90
07-HA-03	15.65	15.88	-0.23
07-HA-04	15.65	9.46	6.19

The results submitted in this letter report are based upon data from the test locations shown in Exhibit 1 and top of wall elevations as shown on the 1959 drawings. The report does not reflect variations that may occur between the probed locations nor guarantees the accuracy of top of the wall elevations.

It has been a pleasure to assist AECOM and the Illinois Department of Transportation on this project. Please call if there are any questions, or if we can be of further service.

Respectfully Submitted,

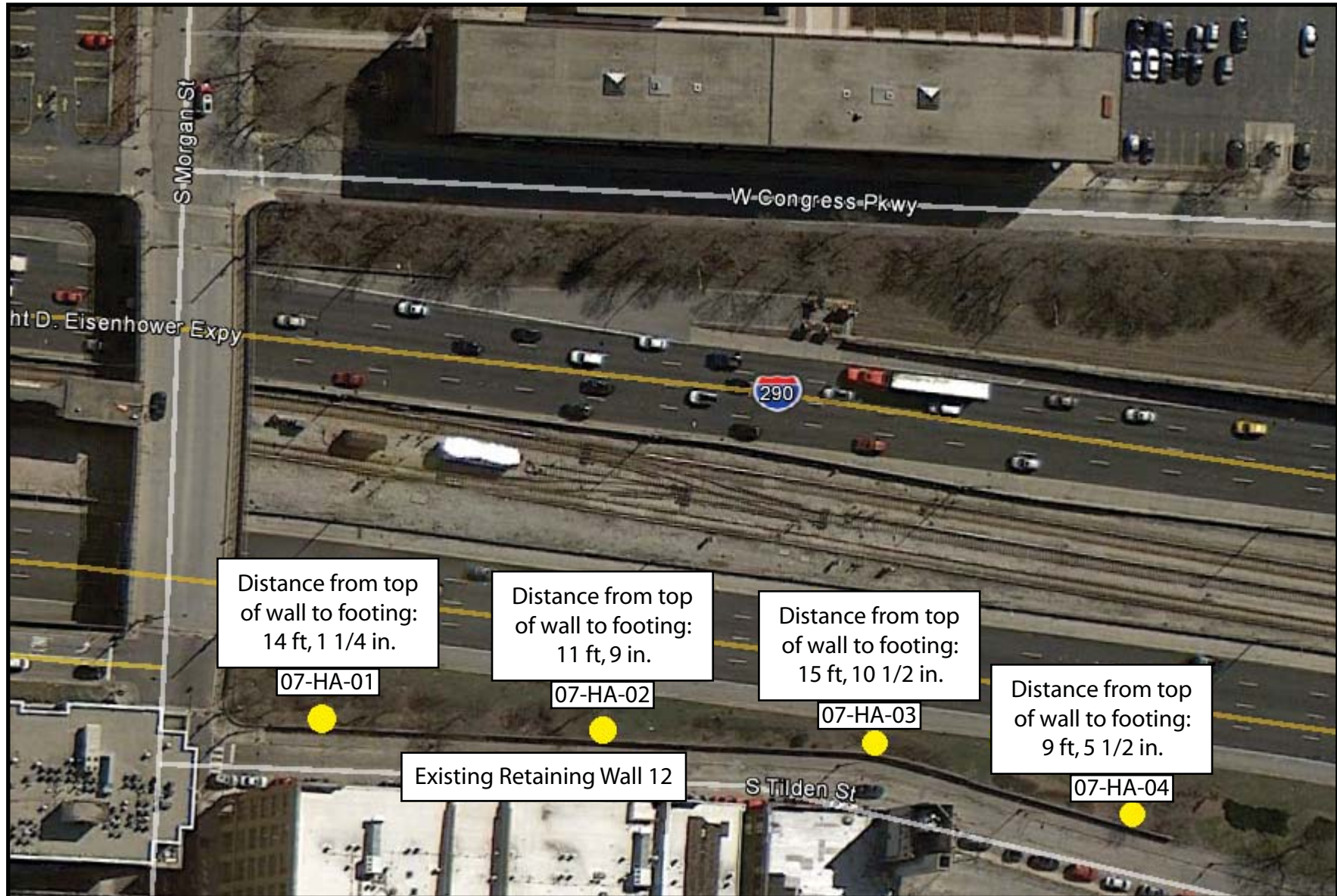
**WANG ENGINEERING, INC.**




Corina Farez, P.E., P.G.  
Principal



Chad Davis  
Project Engineer



BORING LOCATION PLAN: CIRCLE INTERCHANGE, CONFIRMED FOOTING ELEVATION AT RETAINING WALL 12, CHICAGO, ILLINOIS		
SCALE: N/A	EXHIBIT 1	DRAWN BY: C. DAVIS CHECKED BY:
		1145 N. Main Street Lombard, IL 60148 www.wangeng.com
FOR AECOM		1100-04-01