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August 14, 2015

Mr. Martin Nobs  
50 River Bluff Road  
Elgin, IL 60120

Re: **Engineering Geology Assessment-Addendum I**  
**Lot 15, Ski Lake Estates No. 3**  
**6640 East 1100 South**  
**Huntsville, Utah**  
**Job No. 145150**

Mr. Nobs:

This letter is an addendum to the engineering geology assessment letter for the subject lot located in Huntsville, Weber County, Utah. Earthtec Engineering previously completed a geotechnical engineering study<sup>1</sup> and an addendum letter<sup>2</sup> to the geotechnical report for the subject lot. An engineering geology assessment letter<sup>3</sup> was also prepared by Earthtec Engineering.

#### **Purpose**

The purpose of this letter is to respond to the geology review comments<sup>4</sup> provided by Simon Associates, LLC, third-party consultant, hired by Weber County to review the referenced geology assessment letter.

The review comments related to the geology assessment and our responses are presented below. The review comments are italicized and our responses are presented in plain text.

Review Comment 1 states: *"EEI repeatedly refers to the various geologic hazards as "relatively low." SA recommends Weber County request EEI defines the term "relatively."*

This is a typical term used by geologists and engineers practicing in this geographic region. The investigation performed outlines the conditions, and presence of evidence for potential hazards, or lack thereof. The potential hazards described in the "Geologic Hazards" section provides Earthtec's opinion for the site in relation, or relative to properties in the general area of the site. Such areas are indicated to have been mapped as landslides (Map Units Qmsy and Qms), located approximately 200 to 360 feet to the east of the site.

Review Comment 2 states: *"EEI uses terms such as "appears" and "maybe." Are these terms being used to denote a conclusion based on conjecture rather than a conclusion based on sufficient data, particularly subsurface data? Is EEI suggesting that additional data be obtained? SA recommends EEI clarify their use of the word "appears" and "maybe."*

<sup>1</sup> Geotechnical Study, Lot 15 Ski Lake Estates No. 3, 6640 East 1100 South, Huntsville, Utah; Earthtec Engineering, Project No. 145150G, June 23, 2014.

<sup>2</sup> Addendum I to the Geotechnical Report, Lot 15 Ski Lake Estates No. 3, 6640 East 1100 South, Huntsville, Utah, Project No.: 145150G, July 13, 2015.

<sup>3</sup> Engineering Geology Assessment, Lot 15, Ski Lake Estates No. 3, 6640 East 1100 South, Huntsville, Utah, Job No. 145150, July 13, 2015.

<sup>4</sup> Geologic Review, Lot 125 Ski Lakes Estates No. 3, 6640 East 1100 South Street, Huntsville, Utah, SA Project No: 15-142, August 6, 2015.

**Earthtec Engineering**

This is a typical term used by geologists and engineers practicing in this geographic region. The words are used to form a conclusion based on the data that was obtained in the field investigation and no additional testing is needed.

Review Comment 3 states: "On page 5 of the July 13, 2015.EEI report, EEI states: "on June 22, 2015, a geotechnical engineer from Earthtec Engineering returned to the lot with the excavator and oversaw the excavation of an additional test pit (TP-5) in the area of the proposed house on the lot as well as extending TP-3 down slope to the elevation of TP-4. This was done to provide additional subsurface observations in order to better understand the shallow subsurface geology at the site. Test Pit TP-5 and the extension of TP-3 were not logged but were photographed by the engineer." SA recommends Weber County request the annotated photographs of TP-5 and the extension of TP-3 on 6-22-15.

TP-3 was photographed as shown in Exhibit 1 through 3, Appendix A. No photographs of TP-5 were taken, and this test pit was backfilled.

Review Comment 4 states: "SA recommends Weber County request EEI provide an updated site plan (Figure 3) depicting the approximate length of the test pits, particularly the extension of TP-3.

See the revised Figure 3, Appendix B. Test Pit 5 was approximately 4-5 feet long.

#### General Conditions

The information presented in this letter is intended to provide supplementary geologic design recommendations for the subject property. This letter should be considered as Addendum I to the Engineering Geology Assessment. All other recommendations in the above referenced report and letter should be followed. The General Conditions section of the geotechnical report applies to this letter.

The engineering geology assessment as presented in this letter report was conducted within the limits prescribed by our client, with the usual thoroughness and competence of the engineering geology profession in the area. No warranty or representation, either expressed or implied, is intended in our proposals, contracts, reports, or letters.

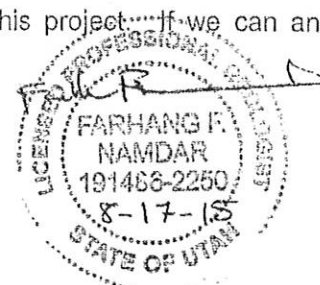
#### Closure

We appreciate the opportunity of providing our services on this project. If we can answer questions or be of further service, please call.

Respectfully;  
EARTHTEC ENGINEERING



Shawn A. Stuart, E.I.T.  
Project Engineer



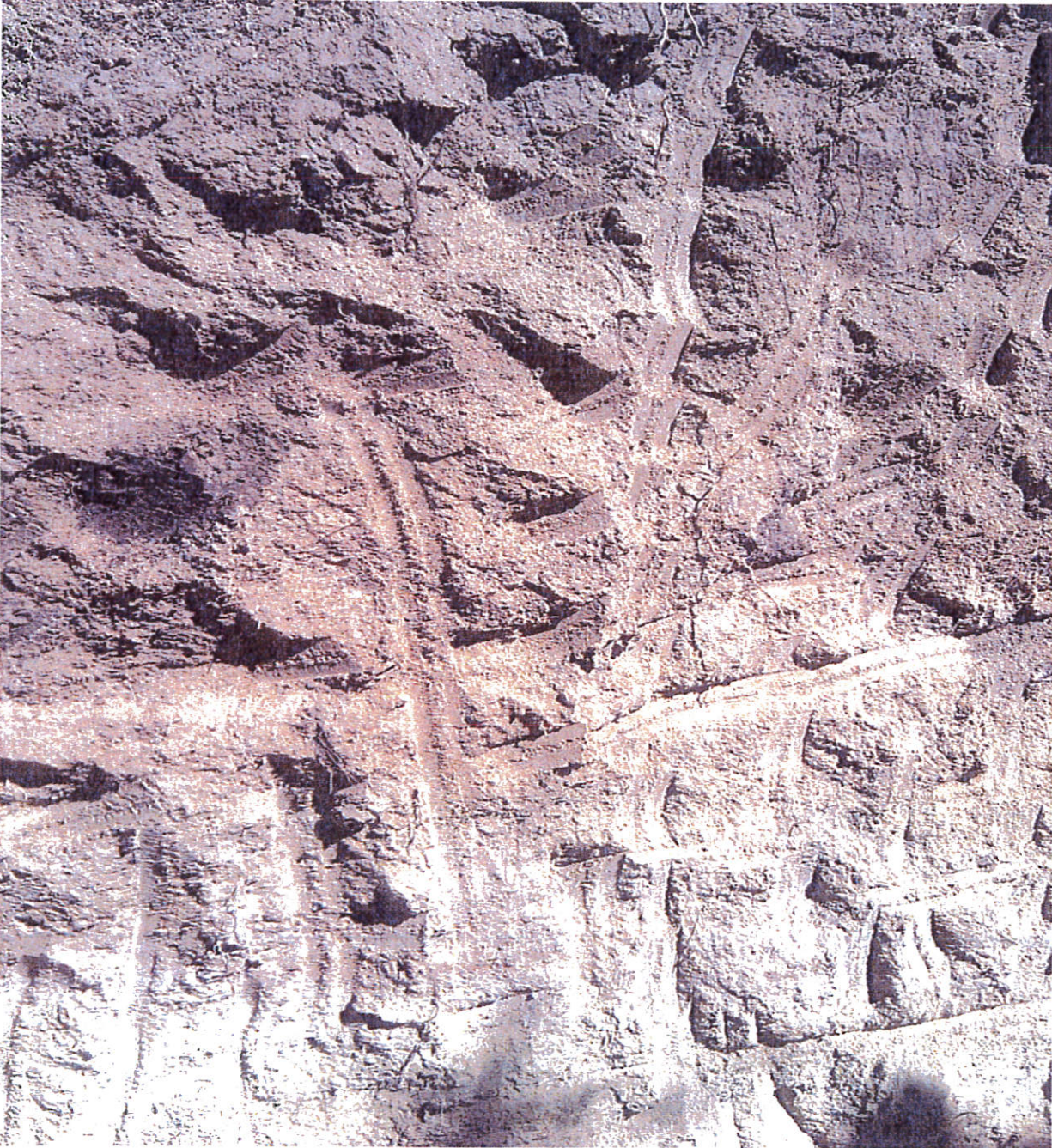
Frank F. Namdar, P.G.  
Professional Geologist

Attachments: Appendix A  
Appendix B

**Earthtec Engineering**

**APPENDIX A**  
**PHOTO EXHIBITS**

**PHOTO EXHIBIT**  
**LOT 15, SKI LAKE ESTATES NO. 3**  
**6640 EAST 1100 SOUTH**  
**HUNTSVILLE, UTAH**



Test Pit 3- West side, middle of the trench.

PROJECT NO.: 145150G



PHOTO EXHIBIT 1

**PHOTO EXHIBIT**  
**LOT 15, SKI LAKE ESTATES NO. 3**  
**6640 EAST 1100 SOUTH**  
**HUNTSVILLE, UTAH**



Test Pit 3- West side of sidewall.

PROJECT NO.: 145150G



PHOTO EXHIBIT 2

**PHOTO EXHIBIT**  
**LOT 15, SKI LAKE ESTATES NO. 3**  
**6640 EAST 1100 SOUTH**  
**HUNTSVILLE, UTAH**



Test Pit 3- West side of sidewall at the north end of the trench. Showing the gravel in the sidewall.

PROJECT NO.: 145150G



PHOTO EXHIBIT 3

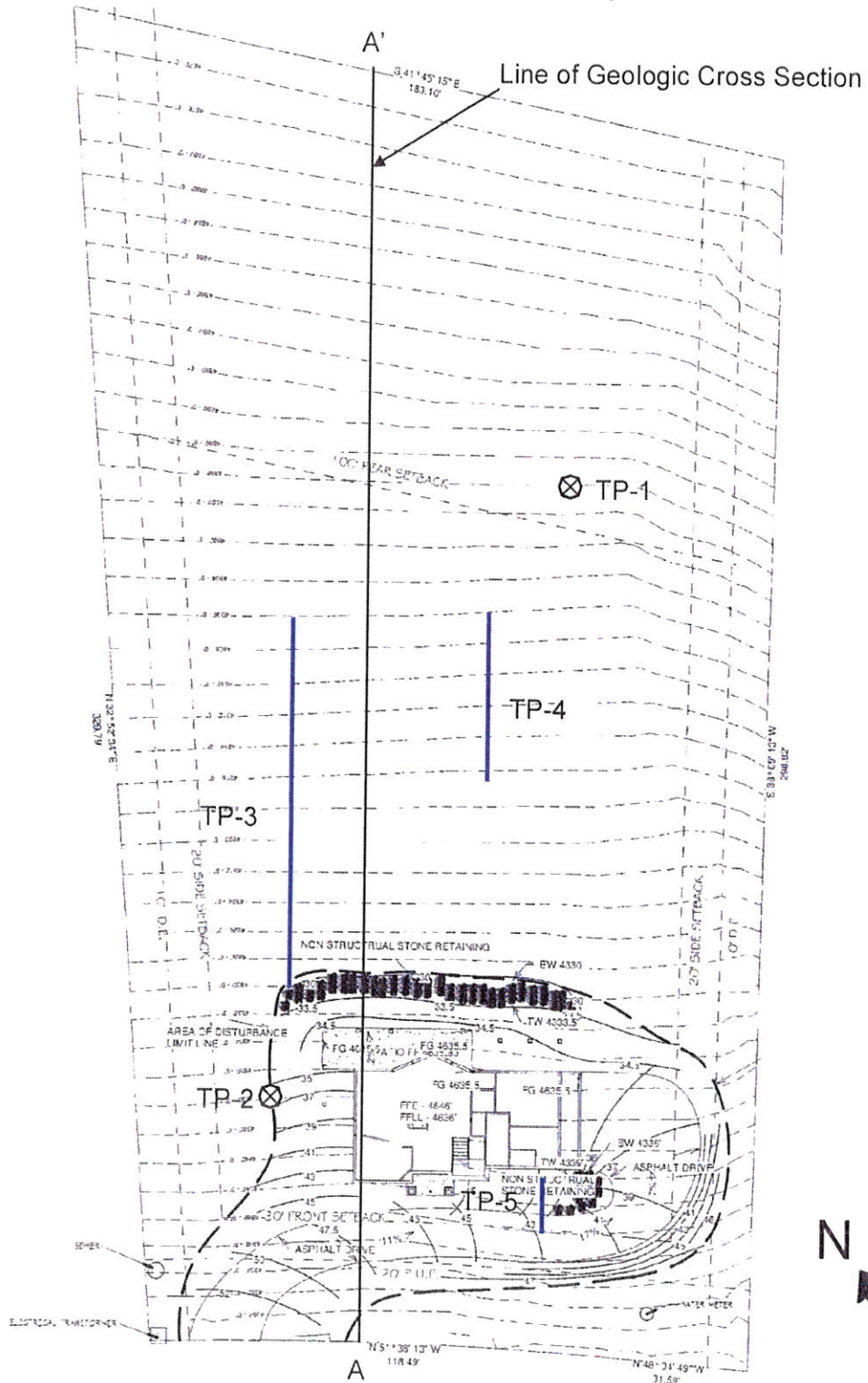
**APPENDIX B**

**FIGURE 3**

# SITE PLAN AND LOCATIONS OF TEST PITS-REVISED

## LOT 15, SKI LAKE ESTATES NO. 3

### 6640 EAST 1100 SOUTH, HUNTSVILLE, UTAH



Scale  
1 Inch = 40 ft

\*Provided by  
Client

