Construction • Materials • Technologies Geotechnical, Environmental, & Materials Engineering/Testing/Research

September 25, 2020

Mr. Brandon Fessler Nordic Valley Ski Resort 3567 Nordic Valley Way Eden, Utah 84310

Subject: Geotechnical Engineering Study- Addendum 1

Proposed Nordic Valley Ski Lift Expansion

About 3567 Nordic Valley Way

Eden, Utah

CMT Project Number: 14998

Mr. Fessler:

INTRODUCTION

A geotechnical report has recently been completed for this project by CMT Engineering Laboratories Inc. (CMT) dated September 3, 2020¹. The findings in the completed report indicated that the proposed locations of lift tower poles 5, 6, and 9 were located within relatively steeps sloping areas which were as steep as about 41 degrees (1.15 Horizontal to 1.0 Vertical). The representative slope stability analysis provided in the referenced report for these steep tower locations indicated unsuitable safety factors through the given tower locations without significant foundation alterations and the insertion of a concrete cut off trench extending to bedrock directly down slope of each tower.

However, since the time of the report the proposed locations of towers 5, 6, and 9 have been moved upslope and downslope (see the revised Figure 3 Attached to this addendum letter) to locations where the sloping conditions at the new tower locations are at about 22 degrees (2.5 Horizontal to 1.0 Vertical) or shallower. Additional slope stability analysis have been completed along the added cross section E-E and cross section A-A (See revised figure 3 attached) which indicate that if towers 6 and 9 are placed a minimum 50 feet upslope of the crest where the slope increases from about 22 degrees to about 41 degrees, then they will be located within zones meeting the minimum factors of safety (1.5 for static conditions and 1.0 for seismic conditions). The graphical stability results for the revised tower 6 location, which is representative, are attached as Figures 21 through 24. Tower 5 has been moved downhill to a similarly flatter sloped area.

¹ "Geotechnical Engineering Services, Proposed Nordic Valley Ski Lift Expansion, about 3567 Nordic Valley Way, Eden, Utah, CMT Project No. 14998, Dated September 3, 2020.

RECOMMENDATIONS

If towers 5, 6 and 9 are moved as shown on the revised figure 3, attached, and placed a minimum of 50 feet upslope of the crest where the slope increases from about 22 degrees to about 41 degrees, then it is our opinion that the new tower alignment will meet the minimum factors of safety for slope stability.

All other recommendations provided in the referenced geotechnical report remain applicable.

CLOSURE

This addendum must be attached to the original geotechnical study dated September 3, 2020. We appreciate the opportunity to provide geotechnical services on your project. Please call with any questions at 801-870-6730.

Sincerely,

CMT Engineering Laboratories

Bryan N. Roberts, P.E.

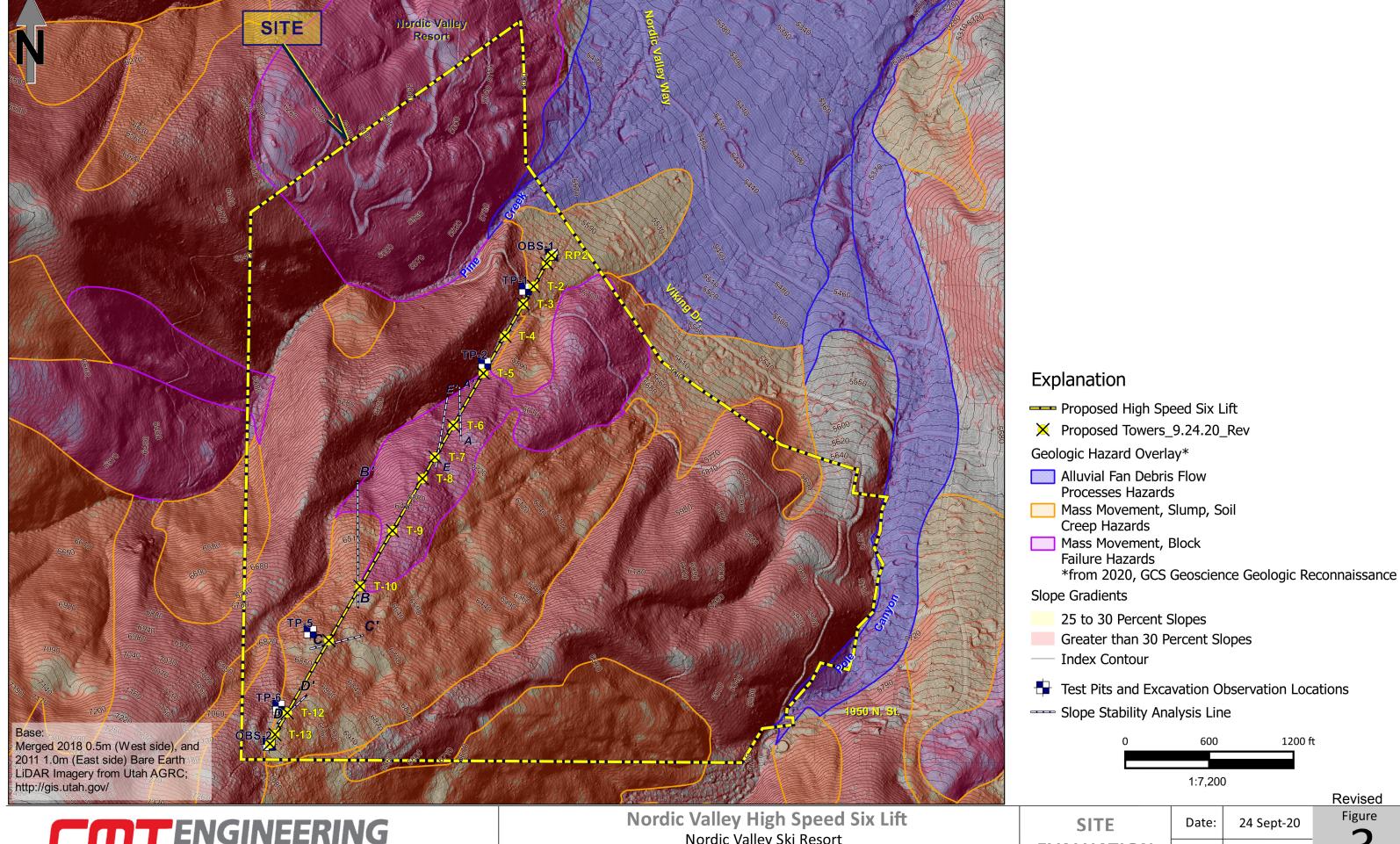
Senior Geotechnical Engineer

Reviewed by:

Andrew M. Harris, P.E.

Geotechnical Division Manager

Addressee (email)



TENGINEERING LABORATORIES

Nordic Valley Ski Resort Eden, Weber County, Utah

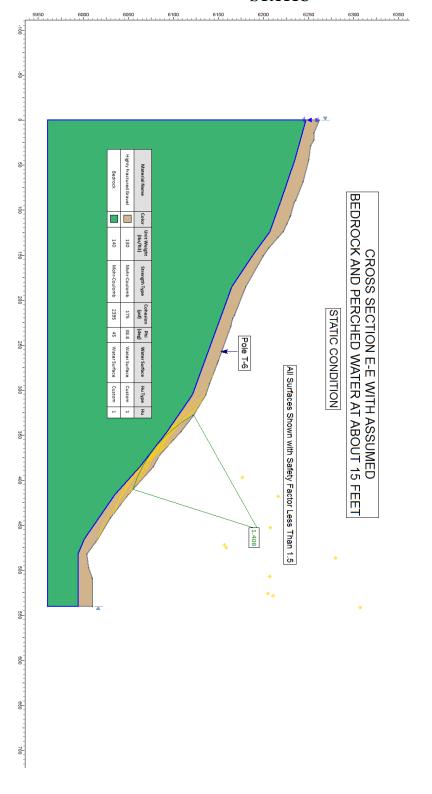
SITE
EVALUATION

14998 Job#

Figure

STABILITY RESULTS

NORDIC VALLEY LIFT EXPANSION
Cross Section E-E (TOWER 6 REVISED LOCATION)
STATIC



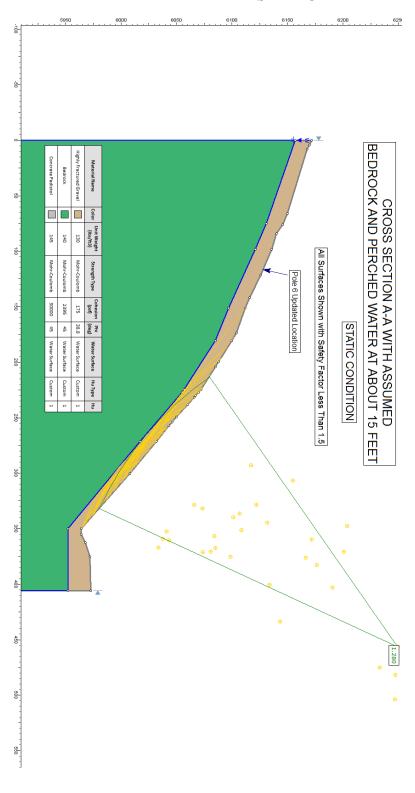
PROJECT NO.: 14998 NORDIC VALLEY LIFT 5 FIGURE NO.: 21

STABILITY RESULTS NORDIC VALLEY LIFT EXPANSION **Cross Section E-E (TOWER 6 REVISED LOCATION) SEISMIC** 6250 6300 6350 6400 130 Cohesion (psf) CROSS SECTION E-E WITH ASSUMED BEDROCK AND PERCHED WATER AT ABOUT 15 FEET 175 Pole T-6 38.8 Phi (deg) All Surfaces Shown with Safety Factor Less Than 1.0 Lowest factor of safety shown is 0.851 SEISMIC CONDITION

PROJECT NO.: 14998 NORDIC VALLEY LIFT 5 FIGURE NO.: 22

STABILITY RESULTS

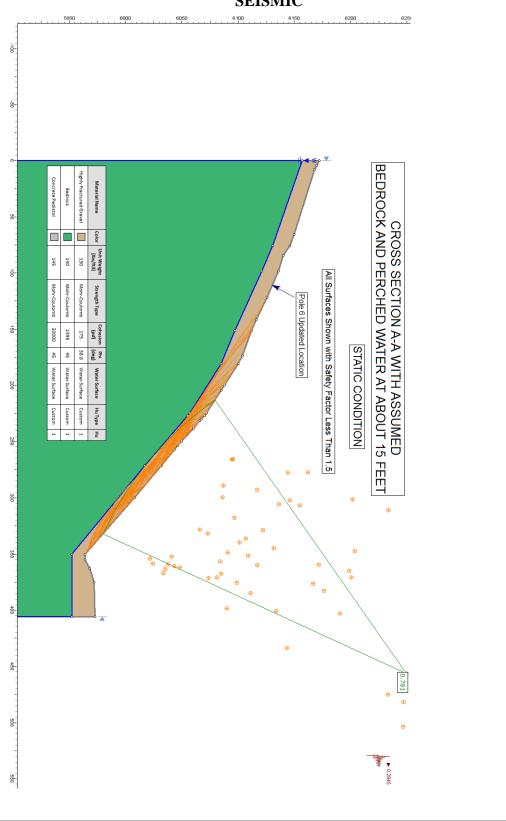
NORDIC VALLEY LIFT EXPANSION Cross Section A-A (TOWER 6 REVISED LOCATION) STATIC



PROJECT NO.: 14998 NORDIC VALLEY LIFT 5 FIGURE NO.: 23

STABILITY RESULTS

NORDIC VALLEY LIFT EXPANSION Cross Section A-A (TOWER 6 REVISED LOCATION) SEISMIC



PROJECT NO.:

14998

NORDIC VALLEY LIFT 5

FIGURE NO.: 24