December 17, 2015
Job No. 0582-24N-15

Mr. Ray Bowden
C/O: Great Basin Engineering, Inc.
5746 South 1475 East Street
Ogden, Utah 84403

Attn: Mr. Mark E. Babbitt, PE PLS

Re: Summary Letter
Response to Review Comments
Proposed Via Cortina Access Roadway Extension
The Summit at Ski Lake Phase 13
Weber County, Utah

As requested by Mr. Mark Babbitt of Great Basin Engineering, this letter is to provide response to review comments provided via email by Weber County on December 15, 2015 related to the geological study[1] and geotechnical consultation letter[2] provided by GSH Geotechnical, Inc. (GSH) for Via Cortina Access Roadway Extension project within the Summit at Ski Lake Phase 13 development in Weber County, Utah. Review comments by Golder Associates are shown in italics with responses by GSH shown in plain text.

Comments and Responses

Comment 1 - *Page 8 – last sentence of the first full paragraph – will the proposed mitigation detailed in the third paragraph stop the current shallow soil-creep movement?*

Response – The proposed remediation is focused on stabilizing the soil conditions within the proposed roadway by removing the unsuitable landslide and slump materials and replacing them with compacted structural fill placed on horizontal benches. This is a proven and effective method of remediation. Due to the extent of the landslide and slump feature outside the proposed right of way, shallow soil-creep movement may continue outside the right of way. The

[1] "Report, Geological Study, Proposed Via Cortina Access Roadway Extension, The Summit at Ski Lake Phase 13, Weber County, Utah," GSH Geotechnical, Inc., GSH Job No. 0582-24N-15, December 11, 2015.

[2] "Summary Letter, Geotechnical Consultation, Proposed Via Cortina Access Roadway Extension, The Summit at Ski Lake Phase 13, Weber County, Utah," GSH Geotechnical, Inc., GSH Job No. 0582-24N-15, December 11, 2015.

GSH Geotechnical, Inc.
473 West 4800 South
Salt Lake City, Utah 84123
Tel: 801.685.9190
www.gshgeo.com

GSH Geotechnical, Inc.
1596 West 2650 South, Suite 107
Ogden, Utah 84401
Tel: 801.393.2012

area outside the right of way will be studied in future studies related to the residential lots within the proposed development and remediation will be planned at that time.

Comment 2 - *Sheet 1b of the plans – recommend adding detail of trench drain, including the 2' clay cap and minimum depth of 10' below EG as detailed in the geotech report.*

Response – The proposed cut-off drain is planned to be placed within the proposed right of way. If the cut-off drain is placed in the shoulder or outside the shoulder of the proposed road, the recommended clay cap must be installed. If the cut-off drain is placed beneath the proposed asphalt paved roadway, the clay cap may be omitted due to the low permeability nature of the asphalt paving.

Comment 3 - *In addition to these we will want a letter from GSH Geotechnical approving the mitigation work and that it was done per plan and addresses all the concerns in the report upon completion.*

Response – GSH has been retained by Mr. Bowden for geotechnical engineering and material testing services during construction of the planned remediation. Following completion of the planned remediation, GSH will issue a letter summarizing our observations and material testing results during construction.

Closure

If you have any questions or would like to discuss these items further, please feel free to contact us at (801) 393-2012.

Respectfully submitted,

GSH Geotechnical, Inc.

Andrew M. Harris, P.E.
State of Utah No. 740456
Senior Geotechnical Engineer

Reviewed by:

Michael S. Huber, P.E.
State of Utah No. 343650
Vice President/Senior Geotechnical Engineer

AMH/MSH:mmh

Addressee (email)
Cc: Ryan Bingham, P.E.