



**Real-World Geotechnical Solutions**  
**Investigation • Design • Construction Support**

June 28, 2021  
 Project No. 20-5645

**Katie Miranda & Ahmed Al Ali**

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Via email: [business@katiemiranda.com](mailto:business@katiemiranda.com); [alali.ahmed.t@gmail.com](mailto:alali.ahmed.t@gmail.com)

CC: Matthew Newman, NW Engineers, LLC via email: [mattn@nw-eng.com](mailto:mattn@nw-eng.com)

**SUBJECT: RESPONSE TO MULTNOMAH COUNTY REVIEW COMMENTS**  
**13221 NW MCNAMEE ROAD HOMESITE**  
**MULTNOMAH COUNTY, OREGON**

Reference: GeoPacific Engineering, Inc., Geotechnical Investigation & Landslide Hazard Study, 13221 NW McNamee Road, Multnomah County, Oregon, updated April 5, 2021.

This letter is in response to Multnomah County Department of Community Services Land Use Planning Division review dated May 28, 2021 for the proposed M49 Dwelling to be located at 13221 NW McNamee Road (Case #T3-2021-14603). GeoPacific previously performed a geotechnical investigation of the site and presented the recommendations for construction in the above-referenced report. GeoPacific Engineering's responses to the review comments are presented below.

**Potential Revegetation Plan:** GeoPacific has reviewed the potential revegetation plan which includes a star gazing mound, bench area, and garden plantings. These areas are to be constructed on the gently sloping portion of the property located southeast of the driveway and northwest of the steeply sloping area (Figure 1). Although specific plans for the stargazing mound were not available for our review, it is our understanding that the mound will be up to 6 feet in height and comprised of excess material generated from house foundation subgrade preparation. It is our opinion that this mound can be constructed with minimal impacts to slope stability provided slopes do not exceed 2H:1V. The proposed French drain within the mound should outlet on gently sloping topography away from structures.

**Septic Drain Field:** The site plan dated June 28, 2021 (Figure 1) alters the location of the septic drain field to include lines within 15 of the foundation. Based on our understanding of the proposed drain field system and our observations of native soils, it is our opinion that the proposed septic drain field will not have a significant impact on slope stability.

**Stormwater Disposal:** Based on the updated June 28, 2021 grading plan, the proposed stormwater disposal system includes a lined rain garden/basin located to the east of the home. Overflow from the rain garden is to be piped to the east/downslope and outfall via a flow dispersal trench with flow control. If constructed as designed, the proposed stormwater disposal system will

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have a negligible impact on slope stability; however, some minor erosion may occur at the disposal trench following large precipitation events.

We appreciate this opportunity to be of service.

Sincerely,

**GEOPACIFIC ENGINEERING, INC.**



Beth K. Rapp, C.E.G.  
Senior Engineering Geologist



EXPIRES: 06/30/20 23

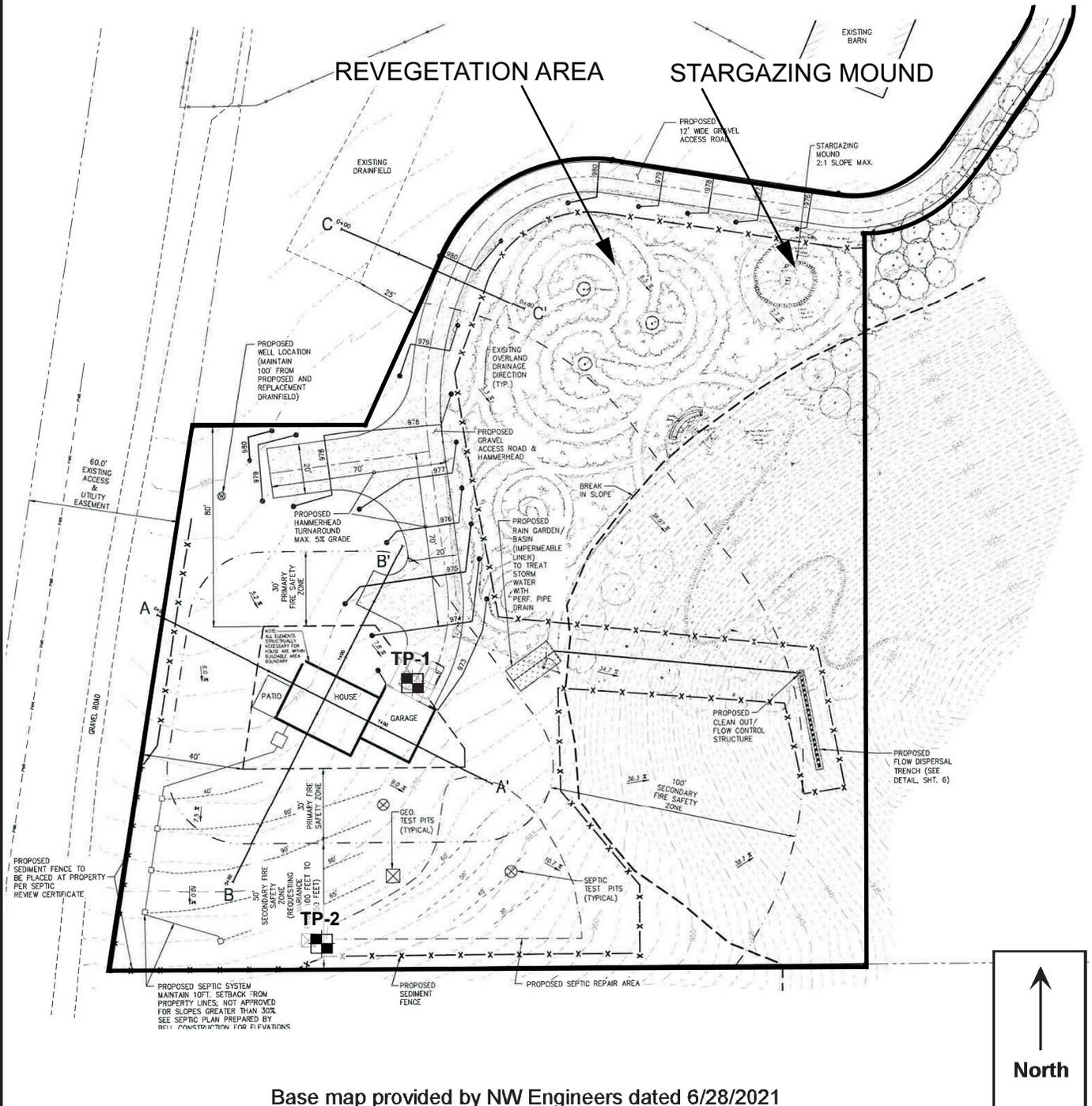
Reviewed by: James D. Imbrie, G.E., C.E.G.  
Principal Geotechnical Engineer

Attachment: Figure 1 – Site Grading Plan & Exploration Locations



14835 SW 72nd Avenue  
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# SITE GRADING PLAN AND EXPLORATION LOCATIONS



Base map provided by NW Engineers dated 6/28/2021

## Legend

- TP-1 Test Pit Designation and Approximate Location

0 60'  
 APPROXIMATE SCALE 1"=60'

Date: 6/28/2021  
 Drawn by: EKR

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FIGURE 1