

January 5, 2018

JN 16441

March Frohlich
7236 – 78th Avenue Southeast
Mercer Island, Washington 98040
via email: mwfrohlich@gmail.com

Subject: **Update to the Geotechnical Engineering Study – Wet Season Construction**
Proposed Single-Family Residence
23 Holly Hill Drive
Mercer Island, Washington

Dear Mr. Frohlich:

We prepared a geotechnical engineering study for this project dated October 18, 2016. In the study, we noted that “it is unclear if this project will be done during the “wet season”. We weather construction on this should be possible without adverse impacts...”. However, we understand that the City of Mercer Island would like recommendations for wet season construction. As such, we provide the following:

The most important component of wet weather (season) construction is preventing erosion control problems on a site; most importantly is any disturbed soil areas be immediately protected. This requires diligence and frequent communication on the part of the general contractor and earthwork subcontractor. As with all construction projects undertaken during potentially wet conditions, it is imperative that the contractor’s on-site personnel are familiar with erosion control measures and that they monitor their performance on a regular basis. It is also appropriate and necessary for them to take immediate action to correct any erosion control problems that may develop, without waiting for input from the geotechnical engineer or representatives of the City.

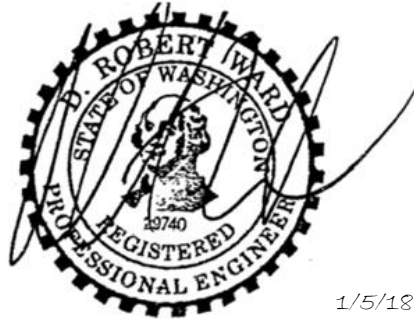
The erosion control measures needed during the site development will depend heavily on the weather conditions that are encountered. Where bare soil areas are created outside of the excavation, they should be immediately covered with coarse compost, mulch, or loose straw. Existing vegetation, pavement and landscaping should be left undisturbed wherever possible. We recommend that a wire-backed silt fence will be placed around the downslope sides of any cleared areas; straw wattles may be needed in conjunction with silt fences. All excavation slopes, as well as any stockpiles, should be covered with plastic soon after then are finished. We recommend that additional silt fencing, straw wattles, straw bales, mulch and plastic be onsite during the wet season so that, if additional erosion control measures are needed, the materials are onsite for immediate installation. Rocked construction access roads should be extended into the site to reduce the amount of soil or mud carried off the property by trucks and equipment. Wherever possible, these roads should follow the alignment of planned pavements, and trucks should not be allowed to drive off the rock-covered areas. All excavations should be kept lower than the surrounding grade, or sloped away from the street and adjacent properties. This prevents any silty water from the excavation from flowing off the site. If silty water accumulates in the excavation, it would likely have to be pumped to a temporary holding tank (i.e. Baker tank) before being disposed of properly. Discharging silty runoff to a nearby ditch or storm drain is not

acceptable. Following rough grading, it may be necessary to mulch or hydroseed bare areas that will not be immediately covered with landscaping or an impervious surface.

We appreciate the opportunity to be of service on this project. If you have any questions, or if we may be of further service, please do not hesitate to contact us.

Respectfully submitted,

GEOTECH CONSULTANTS, INC.



D. Robert Ward, P.E.
Principal

cc: **Soldano Luth Architects**
via email to: jeff@soldanoluth.com

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