



September 1, 2023

G-5713

Mr. Sam R. Franklin  
4408 Thackeray Pl. NE  
Seattle, Washington 98105

Subject: Geotechnical Review of Wet Weather Season Earthwork  
New Residence, 3064 – 68<sup>th</sup> Avenue SE, Mercer Island, Washington

Reference: Geotechnical Engineering Investigation, New Residence, 3064 – 68<sup>th</sup> Avenue SE,  
Mercer Island, Washington. GEO Group Northwest, Inc., August 30, 2022.

Dear Mr. Franklin:

GEO Group Northwest, Inc. has prepared this review letter regarding wet weather earthwork for the construction of a new residence at the above-subject location on Mercer Island, Washington. The City of Mercer Island has a standard moratorium on earthwork during the period between October 1 and April 1, unless measures to prevent soil erosion and sedimentation and stormwater discharge from the construction area are implemented and maintained during the period.

### **Wet Weather Earthwork Considerations**

In update to the discussion in our above-referenced geotechnical report for the project and review of the approved project plans, we recommend that the following measures be implemented in supplement to or in replacement to the standard erosion and sediment control recommendations for earthwork performed during the wet weather season.

- Cut and fill slopes exposed during construction should be covered with plastic sheeting when they are not being worked. Soil stockpiles also should be covered when not being worked.
- Structural fill should consist of free-draining material with not more than 5% of the material passing a #10 sieve.

- Earthwork should not be performed during periods of heavy precipitation, in order to minimize rutting and tracking of soils by construction equipment traffic. Equipment that has lower potential to cause rutting or other soil disturbance should be used.
- Soil subgrades in areas where footings or slabs are to be built should be protected from softening due to standing water or to disturbance if they will be left exposed for a prolonged period. Plastic sheeting can be used for untrafficked areas. A layer of clean crushed 1.25"- or larger size gravel can be used in areas where light construction traffic cannot be avoided.
- Erosion control measures, such as silt fences, straw bales and wattle, etc., should be arranged to control soil erosion and sediment travel as appropriate within the project limits as well as along its downslope and cross-slope perimeter.
- Temporary excavation dewatering measures, consistent with the recommendations provided in our referenced geotechnical engineering report, should be implemented if seepage develops. The measures should be reviewed and modified as necessary to accommodate changes in the rate of seepage or degree of needed treatment prior to discharge.
- Earthwork should be performed in a sequence of limited areas, where feasible, to limit the extent of exposed soil during the project.
- We recommend that we or a CESCL inspector visit the project site upon completion of the installation of the perimeter erosion controls to verify their suitability. During earthwork for construction, we recommend that we or a CESCL inspector visit the site if precipitation greater than 0.5 inches in a 24-hour period occurs, in order to monitor the performance of the SWPPP measures and monitor excavation stability. We also recommend that we or a CESCL inspector visit the site during backfilling work to observe that materials are being used are appropriate for wet weather conditions and are being properly placed and compacted.

### **Review of Project SWPPP and Emergency Procedures**

We have reviewed the SWPPP information for the project. In our opinion, the plan is generally consistent with the recommendations presented above in this letter. We recommend that the

project general contractor and the project earthwork contractor be provided with this letter and our geotechnical report for reference and for implementation of the above-listed recommendations in addition to those presented in the project plans.

We have reviewed the emergency procedures of the contractor in the memorandum received August 30, 2023, and we concur with the stated procedures.

### **Geotechnical Construction Monitoring during Wet Weather Season**

During earthwork for construction, we recommend that we visit the site if precipitation greater than 0.5 inches in a 24-hour period occurs or if indications of potential concern regarding excavation instability are observed, in order to observe and evaluate the conditions. We also recommend that we visit the site during backfilling work to observe that materials are being used are appropriate for wet weather conditions and are being properly placed and compacted.


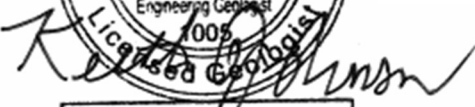
### **Supplemental Statement of Risk**

Provided that the recommendations in this letter, our geotechnical report, and the approved project plans are properly followed, it is our opinion that project earthwork during the wet weather limitation period will not increase the potential for soil movement, and the risk of damage to the site or from the site to the adjacent properties from soil instability will be minimal.

### **Closing**

Please feel welcome to contact us if you have any questions regarding this letter.

Sincerely,  
GEO GROUP NORTHWEST, INC.

  
9/1/2023  
  
**Keith A Johnson**

Keith Johnson  
Project Geologist

  
9/1/2023  


William Chang, P.E.  
Principal Engineer



Green Lake Engineering, LLC  
 6045 4th Ave. NE  
 Seattle, WA 98115  
 Phone: 206-898-4269



**REVIEWED FOR CODE COMPLIANCE**  
 08/03/2023  
 68TH AVE SE  
 BUILDING PERMIT SUBMITTAL

BUILDING PERMIT SUBMITTAL 12.30.2022  
 REVISED BUILDING PERMIT SUBMITTAL 08.03.2023

Jurisdiction Review

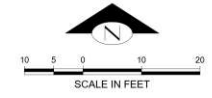
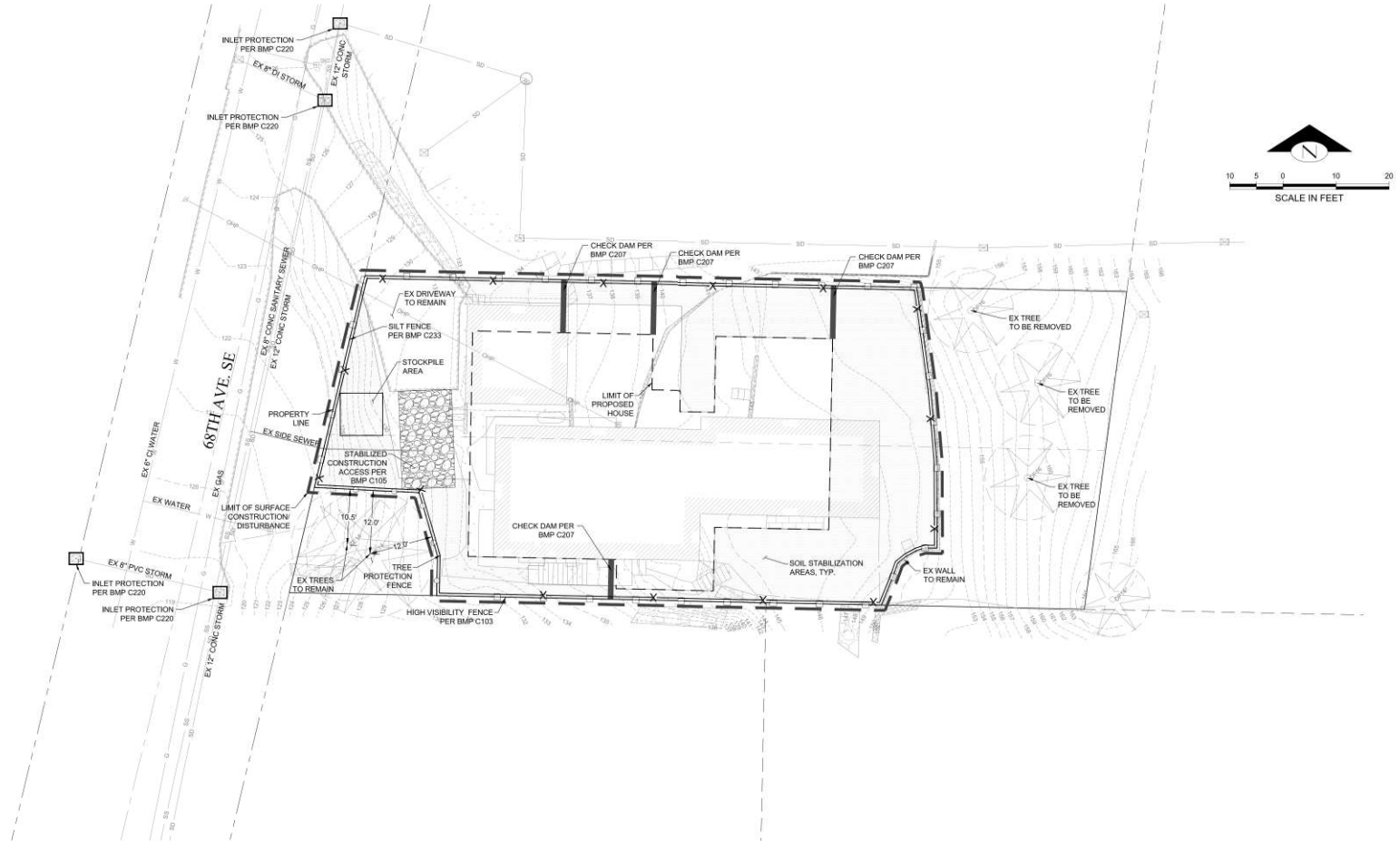
Owner Name  
 SAM FRANKLIN + JUNE CADENHEAD  
 Project Address  
 3004 68TH AVE SE  
 MERCER ISLAND, WA 98040

Sheet Information  
 Job Number 2024  
 Drawn RAK  
 Checked RAK  
 Title

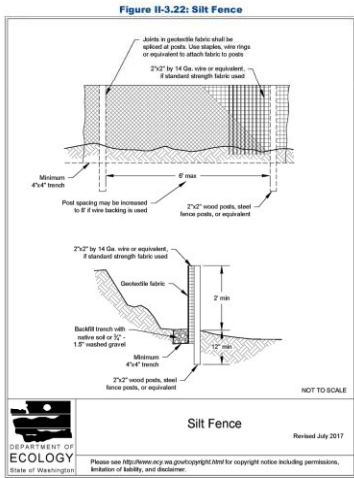
SWPPP Sheet

**NOTES**

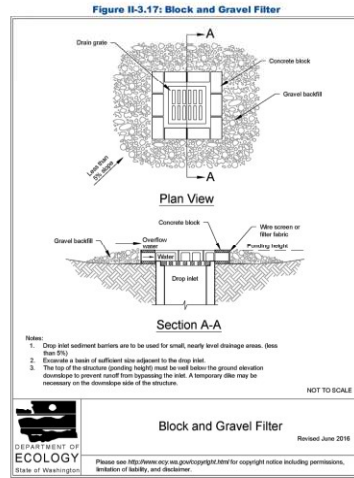
1. AREAS REQUIRED TO PROVIDE POST-CONSTRUCTION SOIL QUALITY AND DEPTH PER MINIMUM REQUIREMENT #5 SHALL PROVIDE A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF TEN PERCENT DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE ORIGINAL UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
2. PLANTING BEDS MUST BE MULCHED WITH 2 INCHES OF ORGANIC MATERIAL.
3. LANDSCAPED AREAS THAT WILL REQUIRE POST CONSTRUCTION SOIL QUALITY AND DEPTH PER BMP T5.13.
  - 3.1. LAWN = 991 SF
  - 3.2. PLANER = 1,927 SF



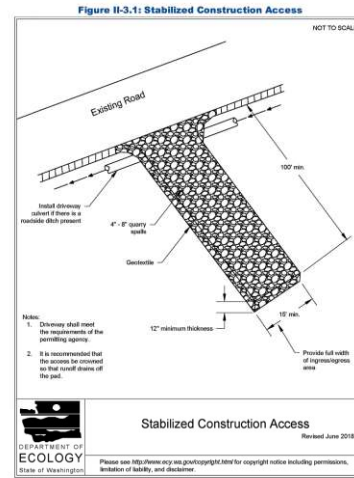
PREPARED BY GREEN LAKE ENGINEERING, LLC



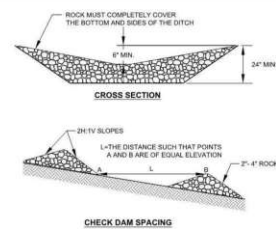
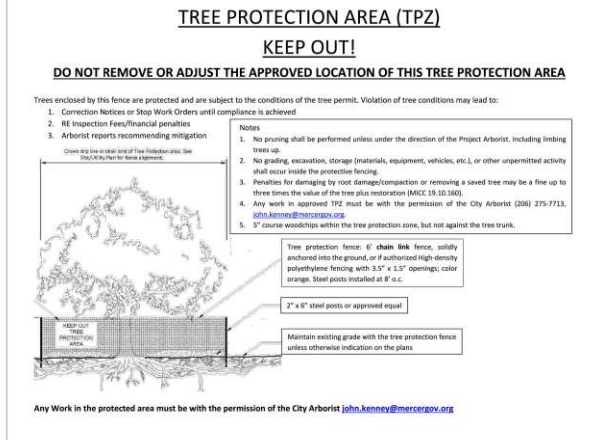
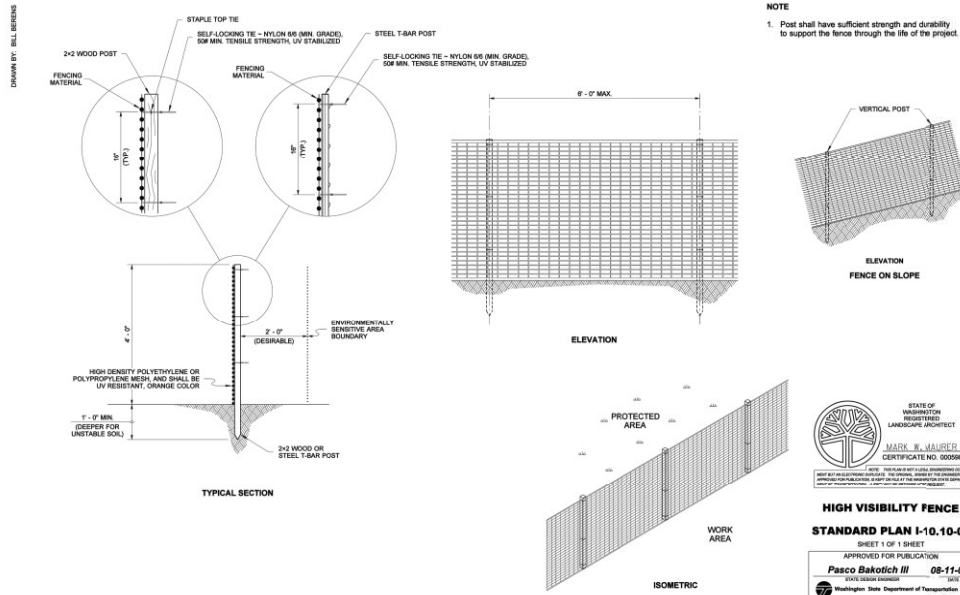
2019 Stormwater Management Manual for Western Washington  
Volume II - Chapter 3 - Page 371



2019 Stormwater Management Manual for Western Washington  
Volume II - Chapter 3 - Page 359



2019 Stormwater Management Manual for Western Washington  
Volume II - Chapter 3 - Page 270



PREPARED BY GREEN LAKE ENGINEERING, LLC

**Green Lake Engineering, LLC**  
8045 4th Ave. NE  
Seattle, WA 98115  
Phone: 206-898-4269



**REVIEWED FOR CODE COMPLIANCE**  
DATE: 2/26/2023  
BY: [Signature]

**68TH AVE SE**  
BUILDING PERMIT SUBMIT

BUILDING PERMIT SUBMITTAL  
12-30-2023  
REVISED BUILDING PERMIT SUBMITTAL  
07-14-2023

Jurisdiction Review

Owner Name  
SAM FRANKLIN - JUNE CADENHEAD  
Project Address  
3044 68TH AVE SE  
MERCER ISLAND, WA 98040

Sheet Information  
Job Number 2024  
Drawn BAK  
Checked BAK  
Title

SWPPP  
DETAILS  
Sheet

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To: Workshop AD  
310 S. Washington St  
Seattle, WA. 98104

From: Travis Nakamura  
Ridgeline Construction Northwest Inc  
1101 N. Northlake Way #104  
Seattle, WA. 98103

RE: Project #2301-149 Seasonal Development Limitation Waiver  
Franklin Residence  
3064 68<sup>th</sup> Ave SE  
Mercer Island, WA 98040

Emergency Procedures:

1. Ridgeline Construction NW Inc. will secure the perimeter of slide area to prevent any individuals or machinery from entering.
2. Authorized site crew will visually inspect the area for any injured or trapped people. Crew to call 911 to contact local fire and police departments immediately, if any found.
3. Ridgeline Construction NW Inc. will contact the project Geotechnical Engineer to evaluate and provide corrective measures to stabilize the area. Keith Johnson, Geo Group Northwest Inc. (425) 649-8757.
4. Authorized site crew will inspect for any damaged or disrupted utility lines or roadways and immediately contact local authorities if found. All damaged or disrupted roadways to be secured from access where possible.
5. Authorized site crew will inspect the building foundation and accessible surrounding properties for damage or further slide danger and will secure access as necessary.
6. Authorized site crew will repair and stabilize any slide areas as soon as possible.

Ridgeline Construction Northwest Inc – (206) 349-5197  
1101 N. Northlake Way #104, Seattle, WA 98103