

Expansive Soils Report

2480 Olive St.

Log. 10-02251-01

The soils at 2480 Olive St. are classified 43 C, Dixonville Philomath Hazelair Complex and are typical of the consolidated sedimentary rock of the Eugene Formation located on 3-12% slopes along the eastern base of College Hill.

The heavy clay content of the weathered soil complex classifies them as expansive and requires that professional supervision ensure that footings be constructed on a lens of compacted gravel on bedrock.

Site Soil Profile:

The expected soil profile of 20" - 40" to bedrock was typical throughout the site. A few intermittent shallow lenses of heavier clay were discovered and removed as a normal part of the excavation. Footings will all rest on a compacted solid base.



2480 Olive St. – Soil profile



2480 Olive St. - 4" of compacted gravel on bedrock for footings



2480 Olive St. - Site side soil profile and basement excavation

Compaction Tests:

The four to five inch layer of gravel was rigorously compacted and a series of tests were made using a six-ton roller. The roller tracks were apparent, but there was no further significant indentation, indicating a required compaction of 95%.



2480 Olive St. – Compaction to 95%

Driveway:

12"-15" of expansive soil was removed in the driveway area at the S.E. corner of the site and temporarily filled with gravel in preparation for the 12" stone and rock base for the pervious paver system that will be installed.

The site is well prepared for footings and further construction.

Respectfully submitted,

Jerome Diethelm, Architect Landscape Architect