TERRA ASSOCIATES, Inc.
Consultants in Geotechnical Engineering, Geology
and
Environmental Earth Sciences

July 11, 2023
Project No. T-5915-3

Mr. Stephen Nornes
Presbyterian Homes & Services and Senior Housing Partners
2823 Hamline Avenue N
Roseville, Minnesota 55113

Subject: Supplemental Site Exploration
Wesley Homes Expansion – Care Center Building
Puyallup, Washington

References: Letter, Care Center Foundation Support Alternative, Wesley Homes Expansion, Puyallup, Washington, prepared by Terra Associates, Inc., Project No. T-5915-3, dated June 13, 2023

Letter, Response to Comments, Geotechnical Report Addendum, Wesley Homes Expansion, Puyallup, Washington, prepared by Terra Associates, Inc., Project No. T-5915-3, dated May 22, 2023

Geotechnical Report Addendum, Wesley Homes Expansion, Puyallup, Washington, prepared by Terra Associates, Inc., Project No. T-5915-3, dated December 29, 2022

Geotechnical Report, Wesley Homes Puyallup, 39th Avenue SE, Puyallup, Washington, , prepared by Terra Associates, Inc, Project No. T-5915-3, revised date November 14, 2016

Dear Mr. Nornes:

In accordance with our recommendations, on June 22, 2023, we completed supplemental soil exploration at the subject site. This supplemental work consisted of drilling two soil test borings along the western side of the Care Center building located west of the existing Lodge building. The purpose of the test borings was to obtain deeper soil data in order to confirm estimated driven pipe pile tip elevations that will be used to support the western portion of the Care Center building as discussed and recommended in the referenced June 13, 2023 letter.

The results of the test borings confirmed the presence of undocumented fill material to depths of approximately 13 feet below current site grades. The fill is composed mostly of silty sand with varying gravel content. Fill soils observed below depths of 7 to 8 feet also contained organic inclusions. Below the fill soils, native soils composed of silty sand with gravel were encountered to boring completion depths of 30 feet. Relative density of these native glacial soils was in the dense to very dense range. Groundwater was encountered at each boring at a depth of 20 feet.

A site plan showing the test boring locations is attached as Figure 1. Test boring logs providing a detailed description of the soil conditions encountered are also attached as Figures 2 and 3. Based on these results pipe pile tip elevations where pile driving refusal criteria should be met is estimated to be in the range of 15 to 20 feet below current site grades. This is consistent with estimates provided in our referenced November 14, 2016 geotechnical report.

We trust the information presented is sufficient for your current needs. If you have any questions or require additional information, please call.

Sincerely yours,
TERRA ASSOCIATES, INC.

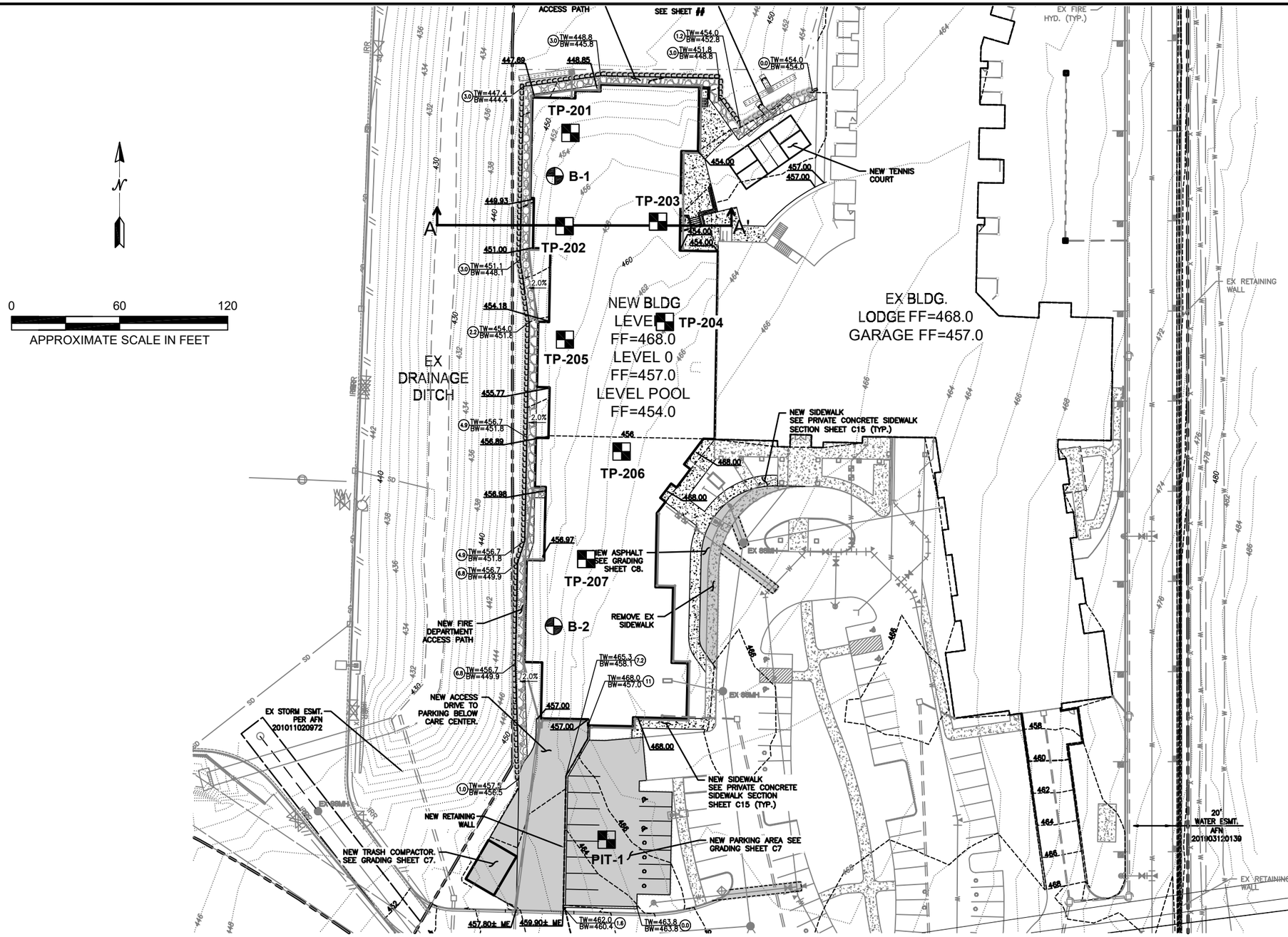
Theodore J Schepper

7-11-23

Theodore J. Schepper, P.E.
Senior Principal Engineer

Attachments: Figure 1 – Exploration Location Plan
Figures 2 and 3 – Test Boring Logs

Cc: Ms. Jill Krance, In Site Architects
Mr. Dan Balmelli, P.E., Barghausen Consulting Engineers



NOTE:

THIS SITE PLAN IS SCHEMATIC. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE. IT IS INTENDED FOR REFERENCE ONLY AND SHOULD NOT BE USED FOR DESIGN OR CONSTRUCTION PURPOSES.

REFERENCE:

SITE PLAN PROVIDED BY BARGHAUSEN CONSULTING ENGINEERS

LEGEND:

APPROXIMATE TEST PIT LOCATION

APPROXIMATE BORING LOCATION

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EXPLORATION LOCATION PLAN
WESLEY BRADLEY PARK PHASE 2
PUYALLUP, WASHINGTON

Proj. No.T-5915-3	Date JULY 2023	Figure 1

LOG OF BORING NO. 1

Figure No. 2

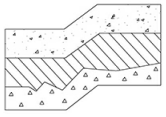
Project: Wesley Homes Puyallup **Project No:** T-5915-3 **Date Drilled:** June 22, 2023

Client: Wesley Homes **Driller:** Boretec **Logged By:** JCS

Location: Puyallup, Washington **Depth to Groundwater:** 20 ft **Approx. Elev:** 454

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows/foot	Moisture Content (%)
0					
5		Fill: Brown silty SAND with gravel, fine sand, fine to coarse gravel, moist. (SM)	Medium Dense	11	
10		Fill: Dark brown silty SAND, fine grained, trace of fine to coarse gravel, moist to wet, scattered dark brown organic pockets, trace of wood fragments. (SM)	Loose	9	
15		Brown grading to gray silty SAND, fine grained, trace of fine gravel, moist. (SM) -Overstated blow counts due to gravel and cobbles (inferred from drilling action).	Very Dense	50/3"	
20 ▼		Gray silty SAND with gravel, fine to medium sand, fine to coarse gravel, wet, trace of fine to medium sand layers between 20 and 21.5 feet. (SM)	Dense	34	
25			Very Dense	50/3"	
30				50/5"	
		Boring terminated at 30.4 feet. Wet soils encountered at below 20 feet.			
35					

NOTE: This borehole log has been prepared for geotechnical purposes. This information pertains only to this boring location and should not be interpeted as being indicative of other areas of the site



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LOG OF BORING NO. 2

Figure No. 3

Project: Wesley Homes Puyallup **Project No:** T-5915-3 **Date Drilled:** June 22, 2023

Client: Wesley Homes **Driller:** Boretec **Logged By:** JCS

Location: Puyallup, Washington **Depth to Groundwater:** 20 ft **Approx. Elev:** 460

Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows/foot	Moisture Content (%)
0					
5		Fill: Gray-brown SAND with gravel, fine to medium sand, fine to coarse gravel, dry to moist. (SP)	Medium Dense	15	
10		Fill: Brown to gray-brown SAND with silt and gravel to silty SAND with gravel, fine to medium sand, fine to coarse gravel, moist, scattered dark brown organic pockets. (SP-SM/SM)	Dense	32	
15		Gray-brown silty SAND with gravel to sandy SILT with gravel, fine sand, fine to coarse gravel, moist, scattered iron-oxide stained pockets between 15 and 16.5 feet. (SM/ML)	Very Dense	51	
▼20		- Becomes wet below 20 feet.		50/5"	
25				50/5"	
30		Boring terminated at 25.4 feet. Wet soils enountered below 20 feet.			

NOTE: This borehole log has been prepared for geotechnical purposes. This information pertains only to this boring location and should not be interpeted as being indicative of other areas of the site

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