CHICORA
Engineering & Construction

Chicora, PLLC

"Success is Sincere Effort and Skillful Execution"

NC Registered Engineering Firm P-1697

CONSTRUCTION MANAGEMENT • CIVIL DESIGN • CONSULTING

November 1, 2021

Floyd Properties
Attention: Mr. Johnny Mcarcan
901 Arsenal Ave.
Fayetteville, NC 28305

Re: Porch Testing
211 Education Drive
Spring Lake, NC 28390
D.O.I.: October 28, 2021

To Whom it May Concern:

On October 28, 2021, Chicora, PLLC performed a site review requested by the client Floyd Properties to verify the bearing capacity of soils via hand auger (i.e. DCP Method) for the backfill on the porch prior to the placement of concrete.

A hand auger was used to advance the boreholes to different depths noted on the boring logs. A Dynamic Cone Penetrometer (DCP) test was performed in the hand auger boreholes by a 1.5-inch diameter cone driven into the soil by a 15-pound ring weight with a free fall of 20 inches. The number of blows required to drive the cone into the soil 1.75 inches is termed the DCP Value and is indicated for each test on the hand auger. A total of 4 hand auger/DCP evaluations were performed to a depth of approximately 3 feet below the existing surface. It is to the opinion of Chicora, PLLC that the materials in place (at the locations and elevations tested) is suitable to support the placement of concrete for the porch.

Should you require any additional information or have any questions, please do not hesitate to contact me at (910) 740-0725.

Sincerely,

Dennis Lowery, PE

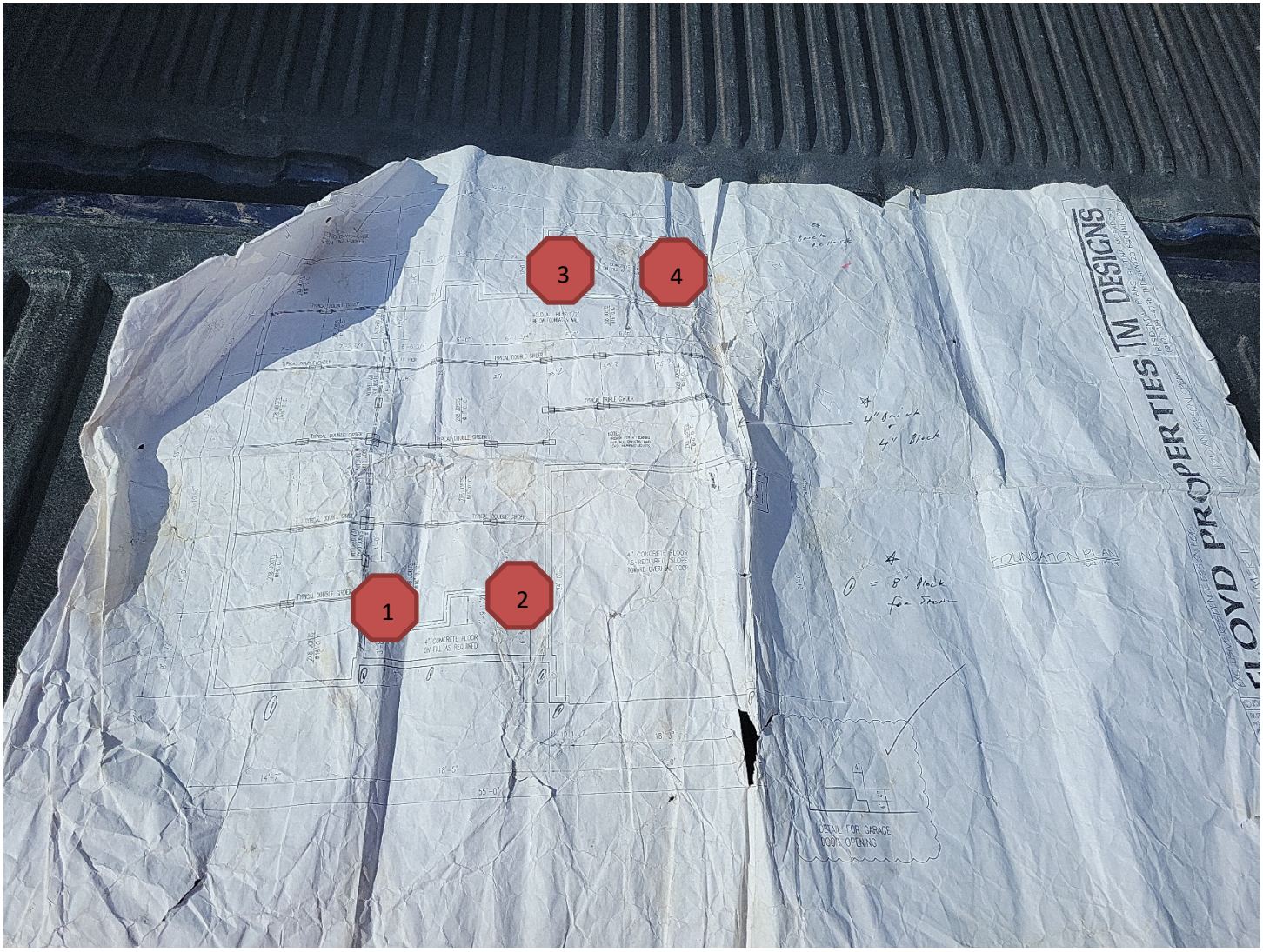
Project Location (Lot 1150) 211 Education Drive Spring Lake NC
Date: 11/1/21
Design Bearing Pressure:

Test Location	Test Depth	Penetrometer Blow Counts			Remarks/Soil Descriptions
		1 3/4"	1 3/4"	1 3/4"	
1	0	8	8	5	Red/Orange Sandy Clay
1	-1	2	1	1	Red/Orange Sandy Clay
1	-2	1	0	1	Red/Orange Sandy Clay
1	-3	3	3	7	Red/Orange Sandy Clay
Remarks:					

Test Location	Test Depth	Penetrometer Blow Counts			Remarks/Soil Descriptions
		1 3/4"	1 3/4"	1 3/4"	
2	0	10	10	6	Red/Orange Sandy Clay
2	-1	1	1	1	Red/Orange Sandy Clay
2	-2	2	3	7	Red/Orange Sandy Clay
2	-3	AR	AR	AR	Red/Orange Sandy Clay

Test Location	Test Depth	Penetrometer Blow Counts			Remarks/Soil Descriptions
		1 3/4"	1 3/4"	1 3/4"	
3	0	6	6	8	Red/Orange Sandy Clay
3	-1	2	1	1	Red/Orange Sandy Clay
3	-2	1	1	2	Red/Orange Sandy Clay
3	-3	AR	AR	AR	Red/Orange Sandy Clay

Test Location	Test Depth	Penetrometer Blow Counts			Remarks/Soil Descriptions
		1 3/4"	1 3/4"	1 3/4"	
4	0	7	10	8	Red/Orange Sandy Clay
4	-1	3	3	3	Red/Orange Sandy Clay
4	-2	AR	AR	AR	Red/Orange Sandy Clay
4	-3				



Test Locations