



November 7, 2023

Mr. John Auton
The Imperial Group
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**Summary of Observations and Testing
Lakeside Self Storage
Building Pad D
Angier, North Carolina
Our Project Number 121-23-112180**

Gentlemen:

As requested, representatives of NV5 Engineers & Consultants, Inc. have recently been periodically present to perform visual observations, hand rod probing, proofroll observations, reinforcing steel observations, and concrete testing associated with Building Pad D located at the Lakeside Self Storage in Angier, North Carolina. Our understanding of the project requirements is based on our review of the provided construction drawing set, prepared by Hauser Creech, dated February 24, 2023. We note that surveying is not included within our scope of services and that all locations and elevations referenced herein were provided by others.

Our representatives were periodically present to evaluate the shallow subgrade soils within the footing excavations for all shallow foundation elements of the above referenced structure. Our testing generally consisted of visual observations, hand rod probing, and dynamic cone penetrometer testing in accordance with ASTM STP-399 at selected locations and to a maximum depth of 3 feet below the planned bearing surface elevation. Our scope did not include mechanically drilled soil test borings to evaluate deeper subsurface conditions that could affect foundation support. Deeper borings can be provided, if desired. The results of the footing examinations indicated that the shallow subsurface soils encountered at the time our investigation were generally capable of providing the required bearing capacity. Furthermore, the results of our testing indicated to us that the structural fill soils placed within the building pad area of Building Pad D were compacted to at least 95% (at least 98% within the upper 12 inches of finished subgrade) of the standard Proctor maximum dry density at the locations, elevations, and times of our testing.

Our representative was also present to observe the reinforcing steel placed for the Building Pad D slab and all shallow foundation elements. Our inspection generally consisted of verification of the size, type, and installation orientation of the reinforcing bars. Our observations indicated that the reinforcing steel was generally installed in substantial compliance with the project plans and specifications provided to us.

Our representative was also periodically present to perform testing of the concrete placed for the Building Pad D slab and all shallow foundations elements. Our testing generally consisted of temperature measurements, slump measurements, and fabrication of compressive strength test specimens. The results of the concrete testing and will be provided under a separate cover.

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We appreciate the opportunity to provide this summary of our observations and testing for Building Pad D within the Lakeside Self Storage, located in Angier North Carolina. If you have any questions, please don't hesitate to contact us.

Sincerely,
NV5 Engineers and Consultants, Inc. (F-1333)



Jalen G. Deatherage
Associate Project Manager

Glen A. Malpass P.E.
Vice President

