

Downing Construction LLC
PO Box 298
Wade, NC 28395

07/18/2023

Attention : Dean Downing

RE: Daily Field Report for 07/07/2023
279 Lenoir Drive Elevator Pit (CMT) Spring Lake, NC
Building & Earth Project No : RD230365

Ladies and Gentlemen:

On this date, representative(s) of Building & Earth were present to perform construction material testing services at this project site. Our testing and observations for this date include the following:

FO-1 : Field Observations made on this date.

- Foundation Inspection

Passed

ST-1 : In place field density testing was performed for Finished Subgrade Soils -Building. The field density testing was performed in general accordance with ASTM D1556, using the results of field one-point as compared to the laboratory proctors. One(1) in-place field density test was performed on this date. The testing results indicate that in-place compaction and moisture content at the location and depth tested meet or exceed the specified requirements outlined in the project plans and specifications. For additional details of our testing, please refer to the attached Field Density Test Report.

Closing

The testing and observations identified above have been reviewed by our project manager. If you have questions regarding this information, please do not hesitate to contact us.

Respectfully Submitted,
Building & Earth Sciences, LLP

Enclosures : FO-1, ST-1



Rachael Heath

Reviewed By

Field Observations Report

Project Name:	279 Lenoir Drive Elevator Pit (CMT) Spring Lake, NC	Project Number:	RD230365
Client Name:	Downing Construction LLC	Placement#:	FO-1
Contractor:	Downing Construction LLC	Technician:	German Castro
Monitoring:	DCP		

1 : Foundation Inspection

Passed

Our technician was onsite to perform a shallow foundation inspection for 279 Lenoir Drive at Elevator pit. The foundation requires a bearing capacity of 2000 psf. Excavations were complete upon our arrival onsite and the bearing soils appeared to be relatively flat and free of organic material and debris. Bearing soils appeared to consist mostly of moist Clay sand. No standing water was noted on the bearing surface. Hand rod probing was performed on 100% of the bearing surface with average penetration of approximately 1 inch. Our representative performed Dynamic Cone Penetration (DCP) testing in general accordance with ASTM STP-399 at one representative location to a depth of 24 inches. Water was not observed within the DCP borehole.

The following information provides the results of our hand auger boring and DCP testing:

Test 1: Center of Elevator pit.

--- Depth---	"N"	-----Soil Color-----	USCS	----Notes
--- FSG---	6.5	----- Reddish/Brown ---	SM	-----
--- 1'---	6.0	----- Reddish/Brown ---	SM	-----
--- 2'---	6.0	----- Reddish/Brown ---	SM	-----
--- 3'---	Hand Auger refusal-Rock			

Results:

Based on our observations and test results, the required bearing capacity of (2,000 psf) is available at the location and elevations tested on this date.

To minimize the potential for future softening of the bearing materials due to water infiltration; reinforcing steel and concrete placement should be completed as soon as practically possible or concrete mud mat should be placed. Any water infiltration should be removed through gravity drainage and/or sump pits and pumping. Any foundations that meet bearing capacity requirement today and experience water infiltration before concrete placement, should be retested by Building & Earth Sciences.



Rachael Heath

Reviewed By

Field Observations Report

Project Name:	279 Lenoir Drive Elevator Pit (CMT) Spring Lake, NC	Project Number:	RD230365
Client Name:	Downing Construction LLC	Placement#:	FO-1
Contractor:	Downing Construction LLC	Technician:	German Castro
Monitoring:	DCP		

Photographs

Picture ID	Field observation
59943	
Picture ID	Elevator pit
59944	



ST-1

Test Date: 07/07/2023
 Field Technician: German Castro
 Tests requested by: N/R
 Results provided to: N/R

Report of Field Density Testing

Project Name: 279 Lenoir Drive Elevator Pit (CMT) Spring Lake, NC
 Project Number: RD230365
 Project Location: Spring Lake, NC
 Client: Downing Construction LLC
 Contractor: Downing Construction LLC

Ambient Temperature: 80-95
 Weather: Clear
 Wind Conditions: Calm
 Results Provided To: N/R
 Superintendent: N/R

- Notes:
- 1 Test location by technician
 - 2 Elevation by Contractor
 - 3 Fill/backfill placed prior to technician arriving

Design & Specification Data

Area ID	Area Description	Depth (ft)	Test Method	% Compaction	Moisture Range	
					Min	Max
FSG-Bldg	Finished Subgrade Soils -Building	0.0 - 2.0	ASTM D-698	95 %	- 10.0	+ 10.0

Laboratory Proctors

Proctor ID	Description of Material	USCS/AASHTO	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
1-point			114.0	9.0%

Density Test Data

Test #	IDs		Test Type	Location	Probe Depth (in)	Elev. (ft)	Dry Density(pcf)	% Moisture	% Compaction	Result
	Area	Proctor								
1	FSG-Bldg	1-point	ASTMD1556	Finished Subgrade Soils -Building : Center of the elevator pit		FSG	108.0	8.0	95%	PASS

Equipment Used: _____ Standard Counts: _____ Density: _____
 Last Calibration: _____ Moisture: _____

Rachael Heath
 Reviewed By