

Report #: 015

Client: Cooke Contracting
Project: Popeyes Sprout Springs, NC
Location: 1517 NC 24-87, Spout Springs, NC 28326

Report Date: 01/31/2024
Project #: 231101.30

FIELD DATA

Weather: Rain

Temperature: 40

SUMMARY OF WORK PERFORMED

Footing evaluation

Remarks: The engineer arrived to continue evaluating shallow spread footings. Using a hand auger and 1/2" probe rod, the soils were evaluated for bearing capacity. Tremont is performing testing and observations as outlined in our proposal. Special Inspections have been excluded from our services.

A layer of previously placed fill that included topsoil and rubble was encountered in the northern half of the building. The footings were over-excavated to firm residual soils and backfill with #57 washed stone. Repair depth ranged from 2.0 to 4.0 ft below the design elevation. See the attached sketch. Using a 1/2-inch steel probe rod, the exposed soils were evaluated for soil-bearing capacity. Yesterday, the rubble fill in the SW corner was excavated to the outside of the foundation line. We understand that the owner has not elected to remove it outside the building pad. Please see Section 4.0 from ATC's geotech report for additional discussion of existing fill.

Tremont measured 39.5 yds³ of unsuitable soils removed with 30.9 yds³ of washed stone used to backfill the footings to bearing elevations.

After repairs, all soils outlined in the attached sketch will provide the required 2,000 psf.

Report Copied to: Taylor Trogdon, Mike J, Josh, Jeff Henson, Chris Busch

Representative / Inspector: Chris Busch

Chris Busch
 System A
 Tremont
 Date Signed: 02/01/2024 09:15 AM

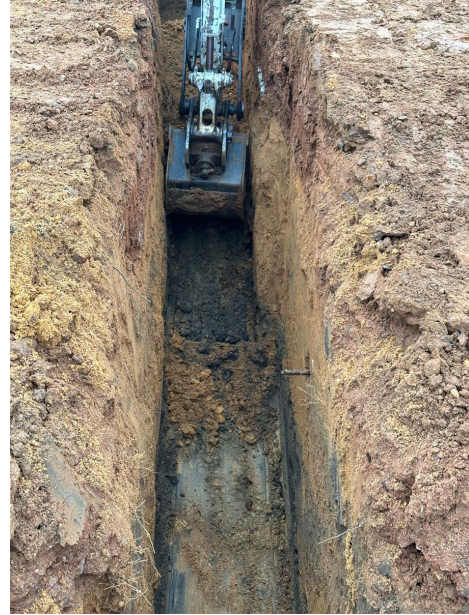


Notes: As requested, a representative from our company arrived on site as scheduled and performed the above test. These test results apply only to the specific locations noted and do not represent any other location. Reports may not be reproduced except in full, without permission.

Field Report [s]



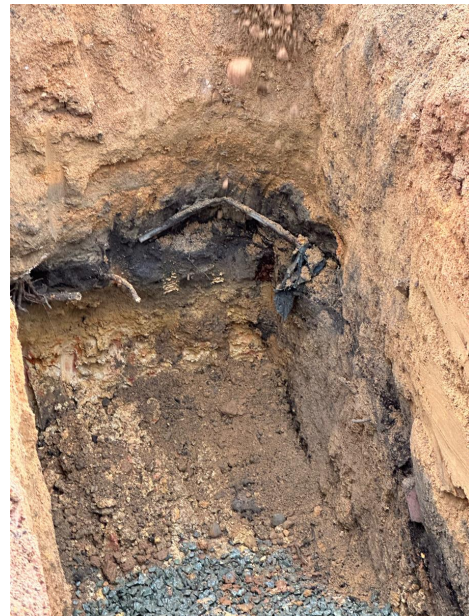
Topsoil and debris layer



Undercut in progress, east wall



Debris found, brick, asphalt, and other items



Debris layer, north wall

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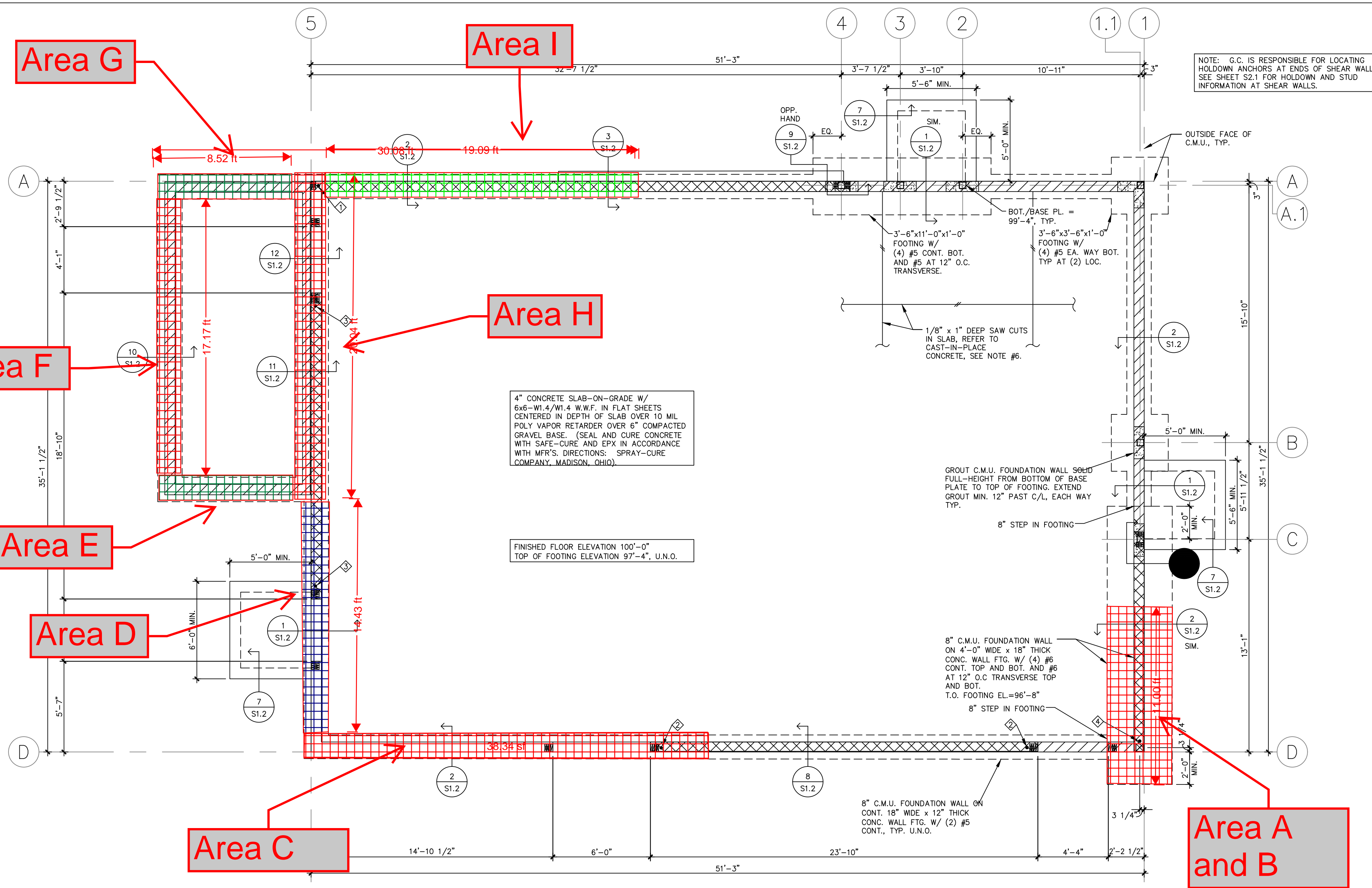
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Debris left in place at SW corner, outside the building pad.



CAST-IN PLACE CONCRETE

- CONFORM TO ACI 318 BUILDING CODE (EDITION LISTED IN APPLICABLE BUILDING CODE) REQUIREMENTS FOR REINFORCED CONCRETE.
- COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS U.N.O.

LOCATION	COMPRESSIVE STRENGTH
SLAB-ON-GRADE	3500 PSI
FOOTINGS	3000 PSI
EXTERIOR CONC.	4500 PSI
LEAN BACKFILL	1500 PSI

- MAXIMUM SLUMP IS TO BE 4"
- CONCRETE EXPOSED TO WEATHER SHALL HAVE AN AIR-ENTRAINMENT OF 5% +/- 1.5%
3. ALL REINFORCING STEEL SHALL BE HARD GRADE ASTM A615 YIELD STRENGTH OF F_y = 60 KSI.
4. WELDED WIRE REINF. SHALL CONFORM TO ASTM A1064 "WELDED STEEL WIRE REINF. FOR CONCRETE REINFORCEMENT."
5. CONCRETE COVER FOR REINFORCING STEEL BARS AND PLACING TOLERANCES SHALL BE IN ACCORDANCE WITH ACI 318 (EDITION LISTED IN APPLICABLE BUILDING CODE).
6. SAWCUT SLAB-ON-GRADE TO A DEPTH OF 1" AS SHOWN ON PLAN WITHIN 6 HOURS OF POURING.

- ### EXCAVATING AND BACKFILLING
- FOUNDATION DESIGN IS BASED ON AN ASSUMED ALLOWABLE SOIL PRESSURE OF 2000 PSF.
 - EXTEND EXTERIOR FOOTINGS TO A MIN. OF 3'-0" BELOW FINISH GRADE. VERIFY WITH LOCAL AUTHORITIES.
 - BEAR ALL FOOTINGS ON ORIGINAL UNDISTURBED SOIL. BEFORE POURING FOOTINGS, SOIL QUALITY MUST BE APPROVED BY A GEOTECHNICAL ENGINEER.
 - THE FOUNDATION WALL ELEVATIONS SHOWN ARE NOMINAL. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR EXTENDING THE BOTTOM OF THE FOOTING DOWN TO UNDISTURBED SUITABLE SOIL. THE LINE OF SLOPE BETWEEN THE ADJACENT EXCAVATIONS FOR FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. MAXIMUM STEP APPROXIMATELY 24".
 - SEE 5/S1.2 FOR TYPICAL FOOTING STEP DETAIL AND 6/S1.2 FOR TYPICAL DETAIL WHERE UTILITY LINES PASS BELOW FOOTINGS.

HOLDOWN SCHEDULE

MARK	TYPE	CONN. TO STUDS	ANCHOR ROD	ANCHOR ROD EMBEDMENT
◆	SIMPSON HD3B	(2) 5/8" DIA. STUD BOLTS	5/8" DIA. W/ HEAVY HEX NUT	12"
◆	SIMPSON HD5B	(2) 3/4" DIA. STUD BOLTS	5/8" DIA. W/ HEAVY HEX NUT	12"
◆	SIMPSON HD9B	(3) 7/8" DIA. STUD BOLTS	7/8" DIA. W/ HEAVY HEX NUT	18"
◆	SIMPSON HD12	(4) 1" DIA. STUD BOLTS	1" DIA. W/ HEAVY HEX NUT	30"

FOUNDATION PLAN
1" = 0'-0"

Area	Length	Width	Depth (ave)	Volume	Notes
A	11.0	7.0	3.0	231.0	Rubble removed
B	11.0	7.0	1.5	115.5	Backfilled w/ #57 stone
C	25.0	1.8	3.0	135.0	Backfilled w/ #57 stone
D	14.5	1.8	2.8	71.8	Backfilled w/ #57 stone
E	8.5	1.8	3.8	57.4	Backfilled w/ #57 stone
F	17.0	1.8	4.0	122.4	Backfilled w/ #57 stone
G	8.5	1.8	3.5	53.6	Backfilled w/ #57 stone
H	20.0	3.0	3.0	180.0	Backfilled w/ #57 stone
I	20.0	1.8	2.8	99.0	Backfilled w/ #57 stone
Over Excavated Soil/rubble					
Total	1065.6		ft3		
Total	39.5		yd3		
Washed Stone Quantity					
Total	834.6		ft3		
Total	30.9		yd3		

ISSUE TABLE		
No.	Date (mm/dd/yy)	Description
REVISIONS		
No.	Date	Description
1	8/01/2023	RESPONSE TO CITY
2	9/04/2023	HEALTH COMMENTS
3	9/12/2023	RESPONSE TO CITY
4	9/12/2023	HEALTH COMMENTS
5	10/27/2023	HEALTH COMMENTS
DRAWINGS REVISED AS PER DESIGN BULLETIN		
No.	Date	Description
ISSUED FOR CONSTRUCTION		
 PROJECT NORTH		
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<small>Company Logo</small> ARCHITECTURE-CIVIL ENGINEERING-MEP ENGINEERING		
<small>Project</small> POPEYES		
<small>Store Type</small> US 2112 PROTOTYPE 2112-21		
<small>Location</small> 1517 NC 24-87 CAMERON, NC		
<small>Drawing Title</small> FOUNDATION PLAN		
<small>Drawn</small> Philippe Lalonde, P.E.	<small>Checked</small>	
<small>Scale</small>	<small>Date</small> JUNE 2023	
<small>Project No.</small> C22-129	<small>Drawing No.</small> S1.1	

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POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC CAMERON, NC (AUG 16, 2023) STORE NO. C22-129