

## **ECS Southeast, LLP**

6151 Raeford Road, Suite A Fayetteville , NC 28304 (910) 401-3288 [Phone] (910) 323-0539 [Fax]

## CONCRETE, GROUT, AND MORTAR TESTS LETTER OF TRANSMITTAL

TO: Boddie Noell Enterprises, Inc.

1021 Noell Lane PO Box 1908

Rocky Mount, NC 27802

ATTN: Accounts Payable

JOB NO.: 5294

LOCATION: 2471 NC Hwy 87 South, Cameron, NC

Moore

RE: Hardee's Cameron

DATE: 09/18/2020

PERMIT #:

We are enclosing:

X Attached

X For Your Use

X Materials Engineering Division Concrete Reports: 2

X As Requested

Boddie Noell Enterprises, Inc - Reggie Barnacascel

Harnett County - Donna Johnson

R & L Builders & Sons, LLC - Stacey Langley

R & L Builders & Sons, LLC - Jose Garcia

R & L Builders & Sons, LLC - Ricky Barnhill

By: Mingo Crowley

Office Manager

Ryan H. Parrish

Construction Materials Project Manager

## Disclaimer

<sup>1.</sup> This report (and any attachments) shall not be reproduced except in full without prior written approval of ECS.

<sup>2.</sup> The information in this report relates only to the sample test specimens obtained on the date sampled.

<sup>3.</sup> The primary purpose of this report is to present the laboratory test results for the indicated sample test specimens. For a full compliance evaluation of construction events that the specimens represent, this test report must be used in conjunction with the related field report.

<sup>4.</sup> Non-conforming test results will be recorded for future resolution.

<sup>5.</sup> Test results that do not meet the required strength levels at the specified ages are marked "LOW TEST RESULTS".

NC Registered Engineering Firm # F-1078



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Project: Hardee's Cameron

Location: 2471 NC Hwy 87 South, Cameron, NC

Owner:

Arch.:

Struc. Eng.:

**Concrete Cylinder Strength Report** 

Project: 5294 Set Designation: A

Cast Date: 08/21/2020 Acceptance Age: 28 days 3500 psi Design Strength:

Report No .: 2

> Client: Boddie Noell Enterprises, Inc -

> > Accounts Payable

Gen. Contr.: Boddie Noell Enterprises, Inc - Tracy

Miller

Conc. Contr.:

Mix Strength: 3500 psi

**Placement Information** 

Placement Location: Slab on grade

Approx. Location Set Represents: Footings and Slab

Supplier Information (If ReadyMix)

Concrete Supplier: Concrete Service Company

Mix Designation: 35CF0000

Added Water: -

Truck No.: 4353 Ticket No.: 384249

Batch Time: 7:30 AM

**Field Test Data** 

Time Sampled: 8:00 AM Slump/Slump Flow: 3.50in. Tested by: **Christopher Baxley** 

Air Temperature: 80°F Concrete Temperature: 85°F Air Content: 1.2% (P)

Fresh Unit Weight: -

Sample #	Test Date	Test Age	Curing Type (F/L)	Average Computed Diameter (in)	Avg. CrossSectional Area (in²)	Breaking Load (lbs)	Rounded Compr. Str. (psi)	Brk. Type	Cap Type	Lab Tech
33-5294-2-1	08/28/2020	7	Lab	4.00	12.56	41415	3300	2	U	ARW
33-5294-2-2	08/28/2020	7	Lab	4.00	12.56	42085	3350	2	J	ARW
33-5294-2-3	09/18/2020	28	Lab	4.00	12.56	55385	4410	2	J	DJ
33-5294-2-4	09/18/2020	28	Lab	4.00	12.56	57415	4570	2	כ	DJ
33-5294-2-5	09/18/2020	28	Lab	4.00	12.56	57965	4610	2	J	DJ
33-5294-2-6	10/16/2020	56	Lab						J	

Sampling in accordance with (iaw) ASTM C172, except that samples may have been taken from the beginning of the load after a minimum discharge of approximately one cubic yard. Cylinder molding and laboratory curing iaw ASTM C31, compressive strength test and break type iaw ASTM C39, slump iaw C143, air content iaw ASTM C173 (V) or C231 (P), temperature law ASTM C1064, and unit weight law ASTM C138. Cylinders denoted with Cap Type U are tested using unbonded caps law ASTM C1231, cylinders denoted with Cap Type B are tested using bonded caps law ASTM C617, and cylinders denoted with Cap Type N (none) meet the planeness requirements of ASTM C39 and are tested without caps. Break Types are classified as: Type 1, 2, 3, 4, 5 or 6 iaw C39.

**Initial Curing Conditions** 

Cooled Curing Box Curing Tank Insulated Ice

Other X No Curing Box Heated

Remarks:

Final Review By:	















RParrish Print Date:9/18/2020