NC Registered Engineering Firm # F-1078

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

DATE: 09/09/2020
RE: Hardee's Cameron
PERMIT #:

We are enclosing:

X	Attached	X	For Your Use
X	Materials Engineering Division Concrete Reports: 1	X	As Requested

CC: 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

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Concrete Cylinder Strength Report

Project: Hardee's Cameron
Location: 2471 NC Hwy 87 South, Cameron, NC

Project: 5294
Cast Date: 08/12/2020
Acceptance Age: 28 days
Design Strength: 3000 psi
Report No.: 1
Set Designation: 1

Owner:
Arch.:
Struc. Eng.:

Client: Boddie Noell Enterprises, Inc - Accounts Payable
Gen. Contr.: Boddie Noell Enterprises, Inc - Tracy Miller
Conc. Contr.:

Placement Information

Placement Location: Footings at Perimeter Footings
Approx. Location Set Represents: 1

Supplier Information (If ReadyMix)

Concrete Supplier: Concrete Service Company
Truck No.: 4366
Ticket No.: 384180
Mix Designation: 35CF0000
Mix Strength: 3500 psi
Batch Time: 11:12 AM
Added Water: -

Field Test Data

Tested by: Joshua Noffsinger
Time Sampled: 11:30 AM
Slump/Slump Flow: 4.50in.
Air Temperature: 90°F
Concrete Temperature: 85°F
Air Content: 1.5% (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	Date to Lab	Lab Tech
33-5294-1-1	08/19/2020	7	Lab	4.00	12.56	37940	3020	2	U		LMP
33-5294-1-2	08/19/2020	7	Lab	4.00	12.56	35895	2860	5	U		LMP
33-5294-1-3	09/09/2020	28	Lab	4.00	12.56	60360	4800	2	U		KA
33-5294-1-4	09/09/2020	28	Lab	4.00	12.56	56455	4490	5	U		KA
33-5294-1-5	09/09/2020	28	Lab	4.00	12.56	55845	4440	2	U		KA
33-5294-1-6	10/07/2020	56	Lab						U		

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 iaw ASTM C1064, and unit weight iaw ASTM C138. Cylinders denoted with Cap Type U are tested using unbonded caps iaw ASTM C1231, cylinders denoted with Cap Type B are tested using bonded caps iaw 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.

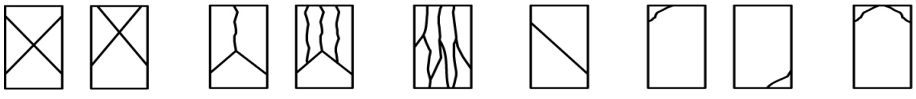
Initial Curing Conditions

Curing Box	Curing Tank	Insulated	Cooled	Ice
X No Curing Box	Heated	Other		

Remarks:

Final Review By: Mimpo Crowley

Schematic of Break Type Fracture patterns per Fig 2 of ASTM C39



RParrish

Print Date: 9/9/2020