

PARKER & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS
JACKSONVILLE, NORTH CAROLINA

VIA HAND DELIVERY

October 15, 2020

Town of Swansboro
Attn: Jennifer Ansell, Town Planner
601 W. Corbett Avenue
Swansboro, NC 28584

Re: **Swansgate**
Street Certification (Final)
Onslow County, NC

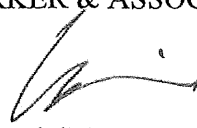
Dear Ms. Ansell,

Parker & Associates, Inc., Cape Fear Engineering, Inc., and Onslow Grading and Paving have conducted on-site inspections of the streets and drainage for the above subdivision. Based on the enclosed test results and our inspections of the project, we find the Streets (Subgrade, CABC Stone, and Pavement) and Storm Drainage to have been constructed within substantial compliance and the intent of the design drawings and hereby issue this Final Certification for the Streets. Enclosed please find the testing data from Cape Fear Engineering, Inc. and Onslow Grading and Paving for the subgrade CABC stone and pavement.



Sincerely,

PARKER & ASSOCIATES, INC.


Richard C. Muni, P.L.S.
Contract Administrator

Enclosure

cc: Mr. Anthony Sydes (Cert. Only)

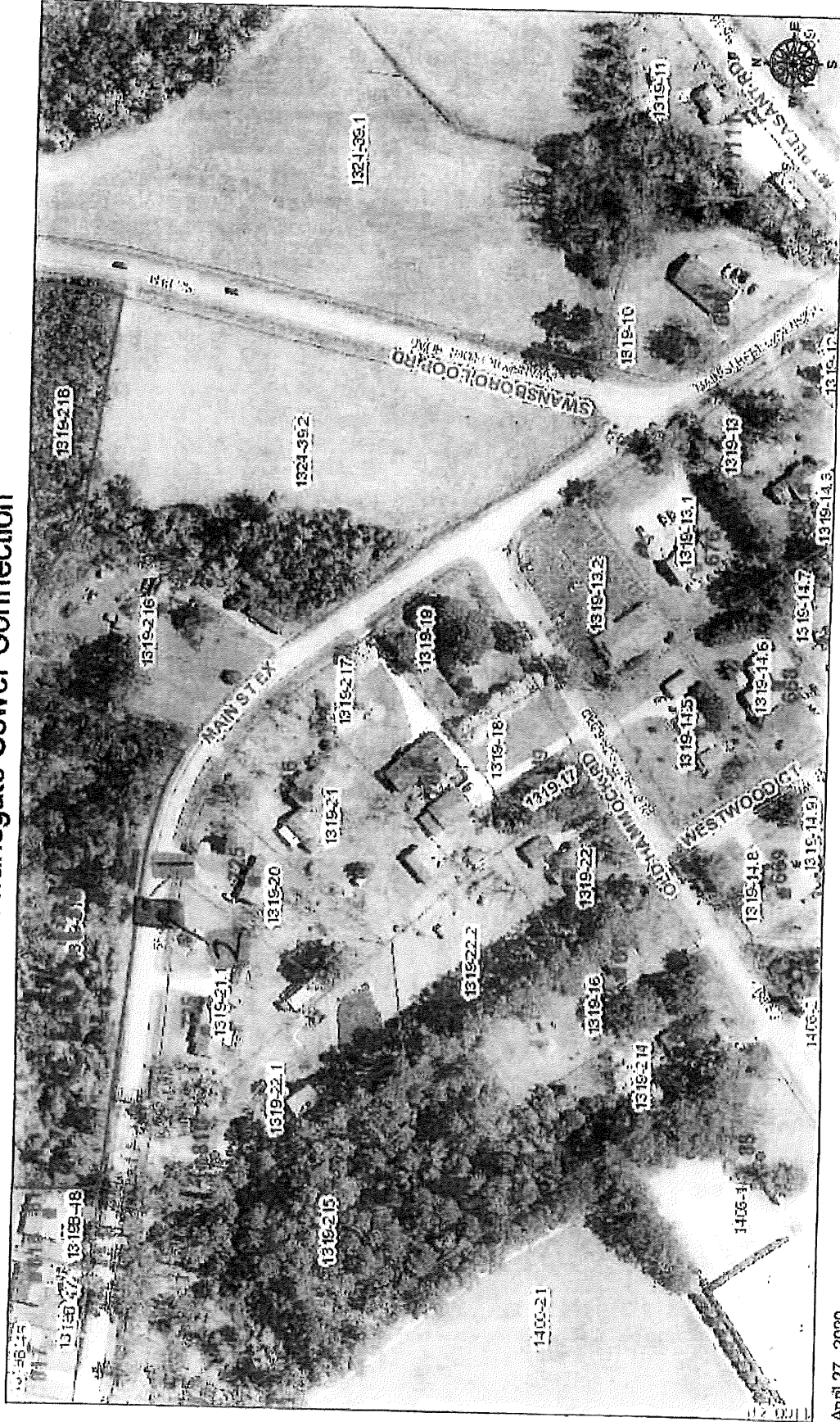
CF (P), LAM, JLM

RCM/bop

C3.2020.Letter.StreetCert.SwansgateJenniferAnsell.10.13.20

306 New Bridge Street | P.O. Box 976 | Jacksonville, NC 28541-0976 | (910) 455-2414
Firm License Number F - 0108 | www.parkerjacksonville.com

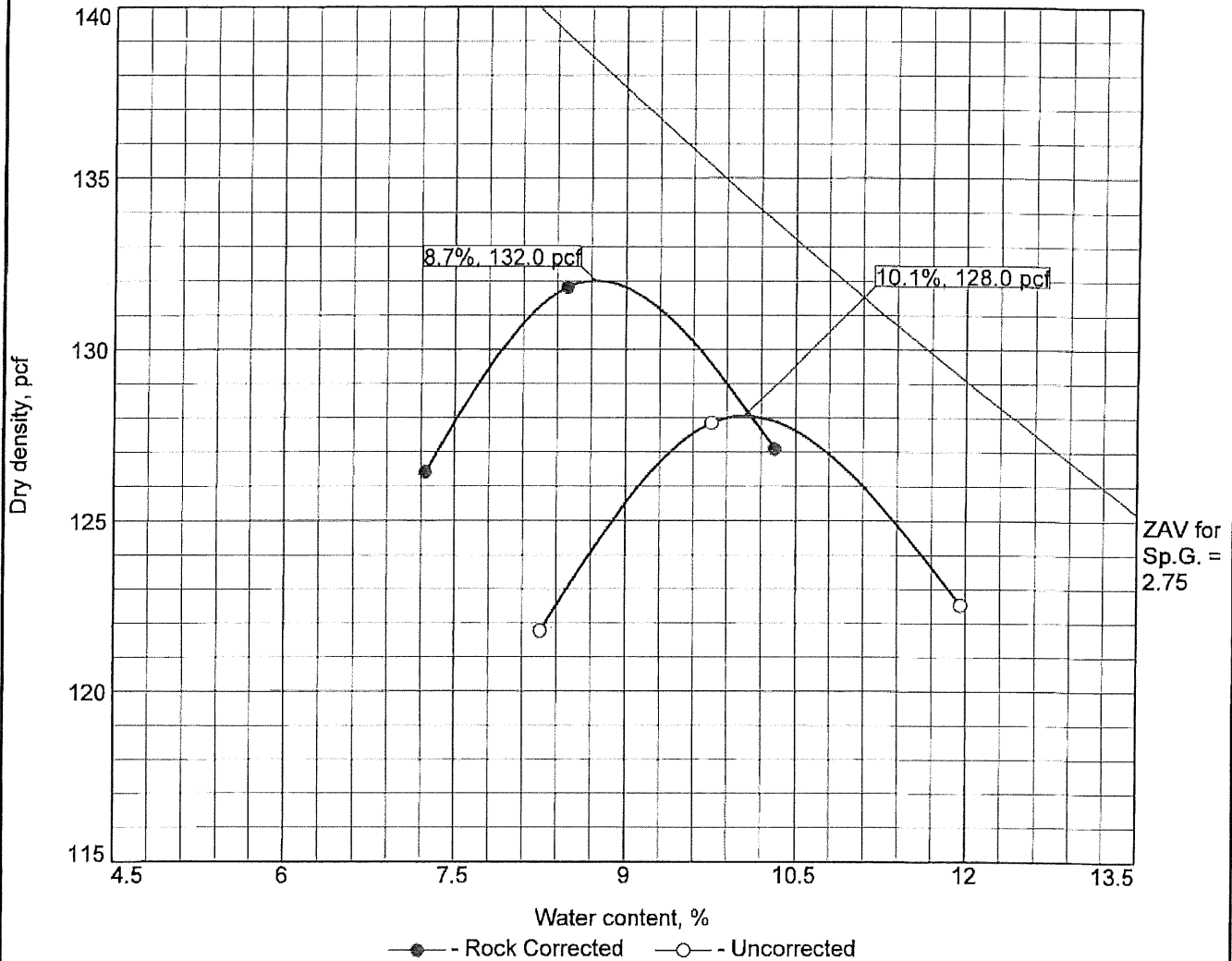
Swansgate Sewer Connection



April 27, 2020

6-5-20
 Compaction location plan
 - Roadway crossing -

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
 ASTM D 4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
Stockpile	GP-GM	A-1-a	13.0	est. 2.75	NV	NP	16.7	11.1

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 132.0 pcf	128.0 pcf	Gray, Poorly Graded GRAVEL (GP-GM) with Sand and Silt (ABC Stone)
Optimum moisture = 8.7 %	10.1 %	

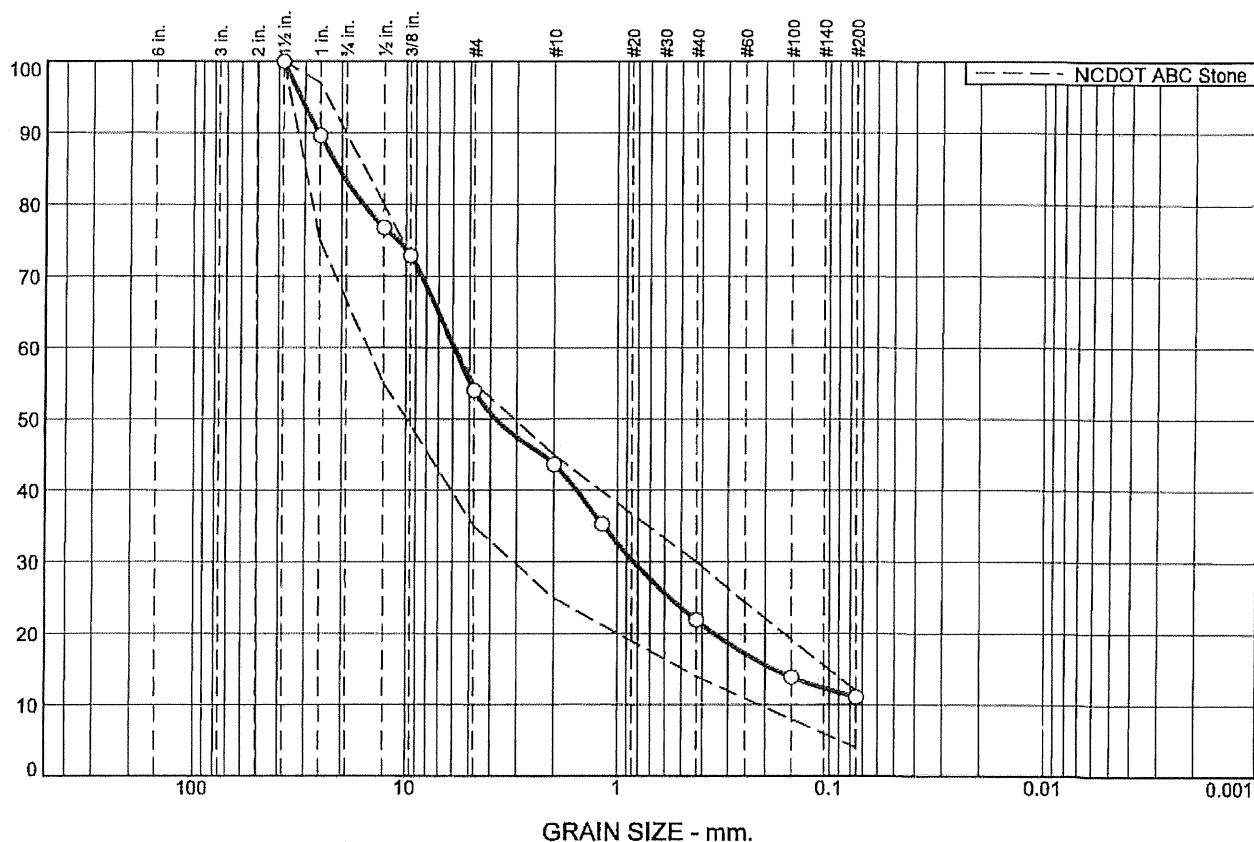
Project No. G2020-181 **Client:** A. Sydes Construction, Inc.
Project: Swansgate
 Swansboro, NC
☐ **Loc.:** Imported ABC Stone fill from Martin Marietta Onslow Quarry

Remarks:
 Sample No. 1 obtained from a stockpile of Martin Marietta Onslow Quarry ABC Stone material.

**CAPE FEAR
ENGINEERING**

Figure

PERCENT FINER



SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1-1/2"	100.0	100.0	
1"	89.6	75.0 - 97.0	
1/2"	76.7	55.0 - 80.0	
3/8"	72.9		
#4	54.0	35.0 - 55.0	
#10	43.6	25.0 - 45.0	
#16	35.3		
#40	21.9	14.0 - 30.0	
#100	13.9		
#200	11.1	4.0 - 12.0	

Gray, Poorly Graded GRAVEL (GP-GM) with Sand and Silt
(ABC Stone)

$$P \models NP$$
$$C_{\text{U}} = 30$$
 C_{11}

AASHTO= A-1-a

Remarks

Date: 6-15-2020

CAPE FEAR ENGINEERING

Project No: G2020-181

Figure

CAPE FEAR ENGINEERING

Daily Field Report

Page | 1

SUBGRADE (PROOFROLL / DENSITY)

Project Name: <u>Swansgate</u>	Staff: J. Huber
Project Location: Swansboro, NC	Client Name: A. Sydes Construction, Inc.
Prime Contractor: A. Sydes Construction, Inc.	Job No: G2020-181
Sub-Contractor/Site Contractor: A. Sydes Construction, Inc.	Date: 8/7/2020
Weather: Partly Cloudy 80 °F	Time: -
Tests or Inspections Performed: Proofroll Soil Base Material	
Issues; Non-Compliances; Failing Tests: See Below	

A Cape Fear Engineering representative (J. Huber) arrived onsite to observe the roadway proofroll of the soil base material using a loaded tandem dump truck. The proofroll operation generally revealed stable roadway base material conditions as observed under the applied wheel loads. As an exception, one area (20 feet long by 6 feet wide) was observed to be slightly unstable with deflections above 1-inch as observed under the applied wheel loads. The observed instabilities were attributed to excess moisture within the roadway base material in this area. The contractor was advised to re-work the slightly unstable area and schedule a re-evaluation (re-proofroll).

Compaction testing was conducted on the roadway soil base material which revealed passing results.

COMPACTION TEST REPORT

SUBGRADE (DENSITY)

Project: Swansgate Date: 8/7/20
 Project Location: Swansboro, NC Technician: J. Huber
 Client: A. Sydes Construction, Inc. Job Number: G2020-181
 General Contractor: A. Sydes Construction, Inc. Weather: Partly Cloudy Temp. (°F) 80
 Grading Contractor: A. Sydes Construction, Inc. General Test Location: Roadways soil base

Test Number	Moisture (%)	Dry Density (pcf)	Wet Density (pcf)	Proctor Number	% Proctor		Pass	Fail	Test Elevation*	Test Location (Grid, Coordinates, Roadway Station, etc.)
					Spec	Actual				
1	4.8	123.1	129.0	1	100%	100+%	X		FG	(See Attached Sketch)
2	5.3	124.0	130.6	1	100%	100+%	X		FG	(See Attached Sketch)
3	5.0	122.7	128.8	1	100%	100+%	X		FG	(See Attached Sketch)
4	5.7	124.6	131.7	1	100%	100+%	X		FG	(See Attached Sketch)
5	5.8	122.6	129.7	1	100%	100+%	X		FG	(See Attached Sketch)
6	6.0	125.1	132.6	1	100%	100+%	X		FG	(See Attached Sketch)
7	5.4	125.0	131.8	1	100%	100+%	X		FG	(See Attached Sketch)

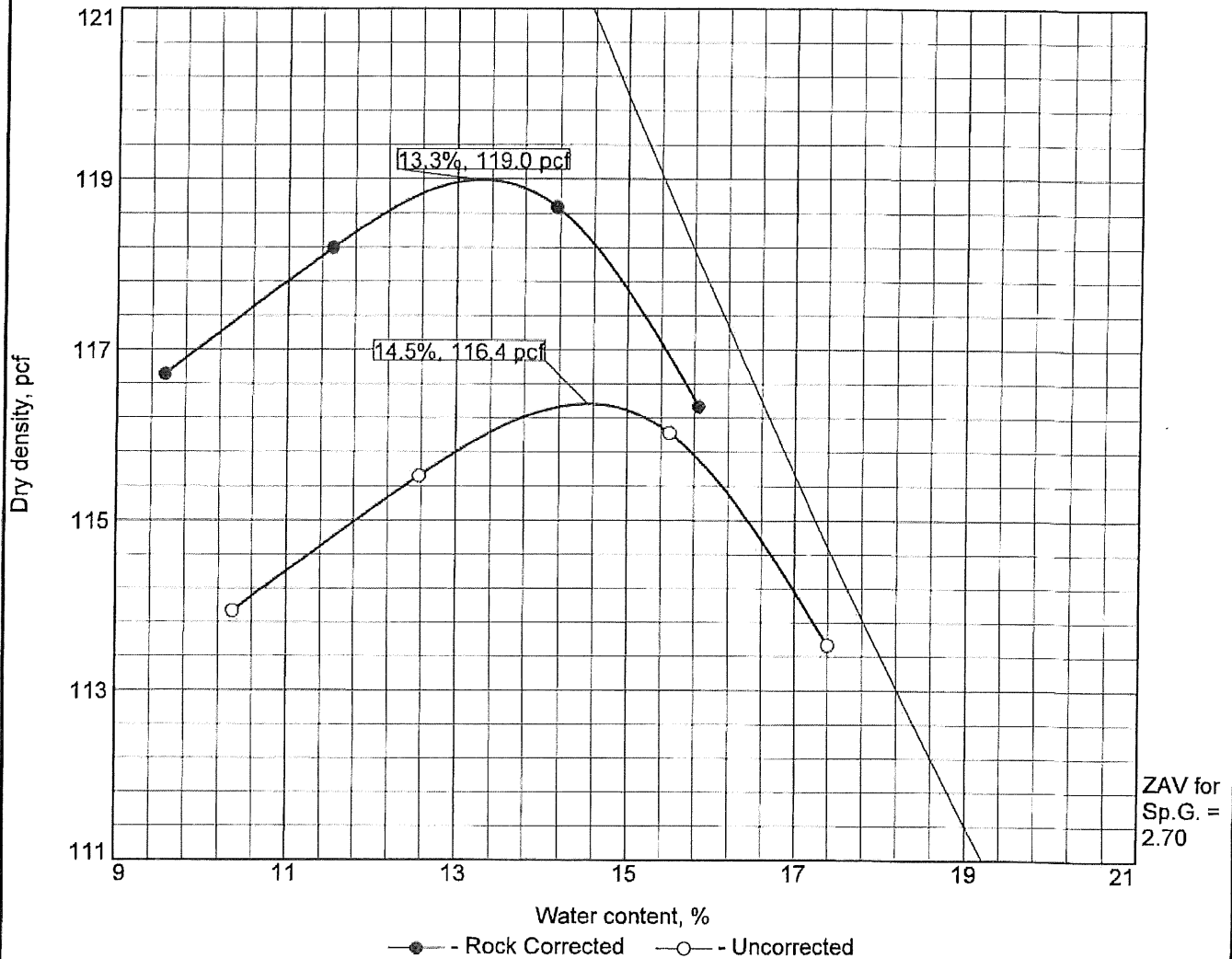
Compaction Equipment Used: Smooth Drum Roller Proctor Number: 1
 Field Testing Procedure: ASTM D 6938 Proctor Type: ASTM D 698
 Field Testing Method: Method A Depth: 8 inches Material Description: See Remarks
Method B Depth: Backscatter Max. Dry Density (pcf): 119.0
 Optimum Moisture (%): 13.3%

Gauge Standardization Counts: Moisture: - Density: 3362 Make: Troxler Model: 4590 Gauge Identification: Serial #: 76500

Test locations and test elevations are approximate and were established in the field by the CFE field representative
 * Note: BFF = Below Finish Floor, BFG = Below Finish Grade; FG = Finished Grade; SG = Subgrade Elevation

Remarks: Proctor No. 2: Gray, Silty fine to coarse SAND (SM) with Gravel (Processed Fill)

COMPACTION TEST REPORT



Test specification: ASTM D 698-12 Method A Standard
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						
Stockpile	SM	A-1-b	6.8	est. 2.70	NV	NP	10.5	14.3

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 119.0 pcf	116.4 pcf	Gray, Silty fine to coarse SAND (SM) with Gravel (Processed Fill)
Optimum moisture = 13.3 %	14.5 %	

Project No. G2020-181 **Client:** A. Sydes Construction, Inc.
Project: Swansgate
 Swansboro, NC
☐ **Loc.:** Imported Process Fill from Martin Marietta Onslow Quarry

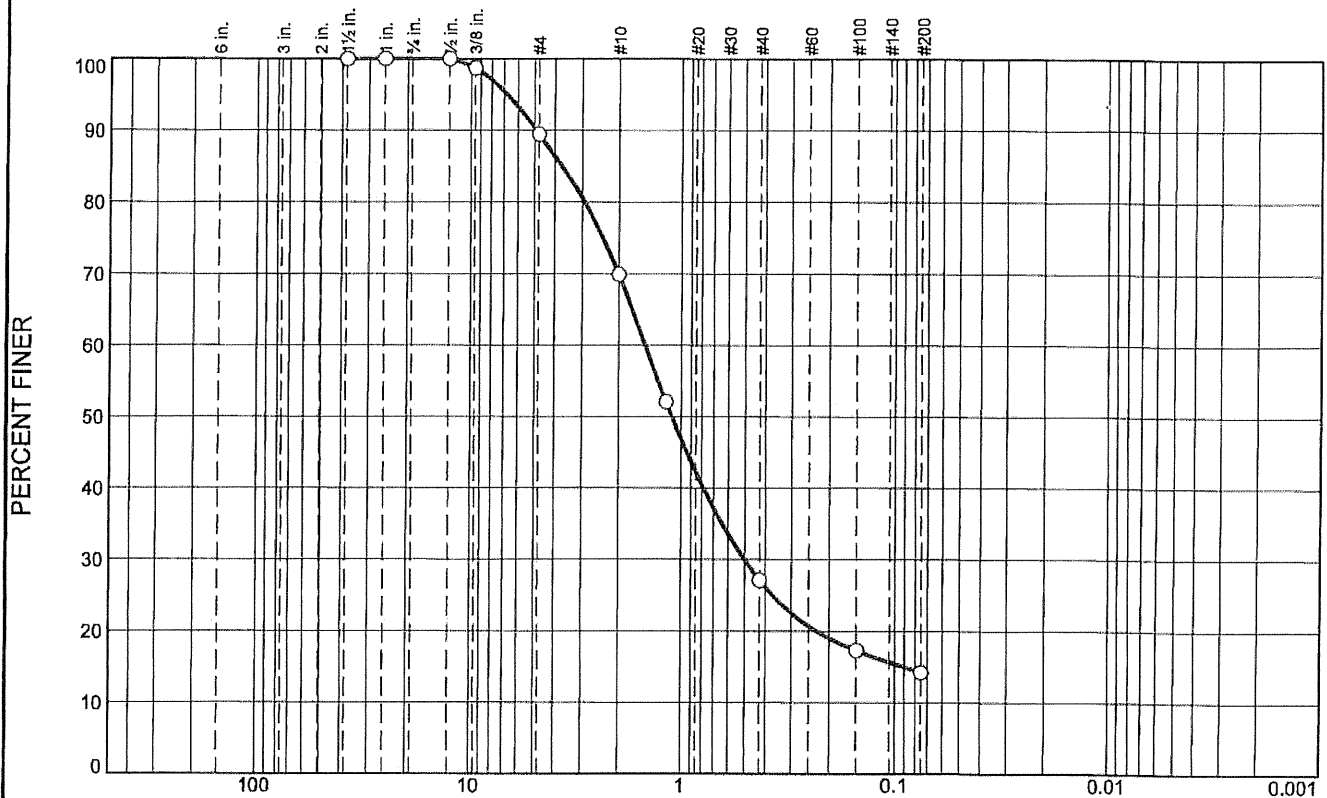
**CAPE FEAR
ENGINEERING**

Remarks:

Sample No. 2 obtained on 8-7-2020 from an onsite stockpile delivered from the Martin Marietta Onslow Quarry.

Figure

Particle Size Distribution Report



GRAIN SIZE - mm.

% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	10.5	19.6	42.8	12.8	14.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1-1/2"	100.0		
1"	100.0		
1/2"	100.0		
3/8"	98.7		
#4	89.5		
#10	69.9		
#16	52.1		
#40	27.1		
#100	17.3		
#200	14.3		

* (no specification provided)

Material Description

Gray, Silty fine to coarse SAND (SM) with Gravel (Processed Fill)

Atterberg Limits

PL= NP

LL= NV

PI= NP

Coefficients

D₉₀= 4.8972

D₈₅= 3.7154

D₆₀= 1.4848

D₅₀= 1.1053

D₃₀= 0.5013

D₁₅= 0.0904

C_u=

C_c=

Classification

USCS= SM

AASHTO= A-1-b

Remarks

Location: Imported Process Fill from Martin Marietta Onslow Quarry
Sample Number: 2 Depth: Stockpile

Date: 8-7-2020

**CAPE FEAR
ENGINEERING**

Client: A. Sydes Construction, Inc.

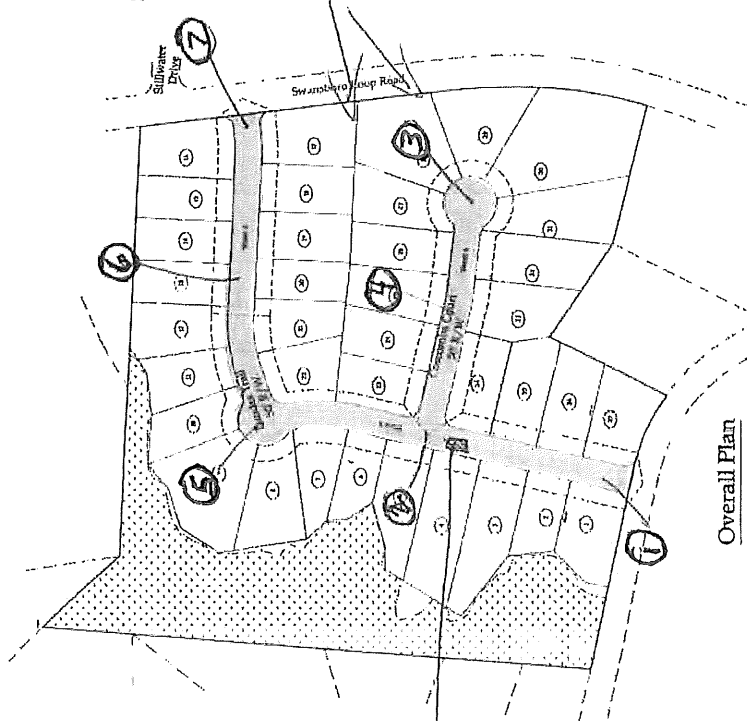
Project: Swansgate
Swansboro, NC

Project No: G2020-181

Figure

Swansgate

Swansboro Township, Onslow County, North Carolina



Overall Plan
SCALE: 1"=40'
DATE: 11/11/11

UNDERGROUND UTILITY CAUTION NOTES

Underground utilities are shown in this plan. It is the responsibility of the owner to verify the location and depth of all utilities before construction. The owner is advised that the location and depth of utilities may vary from the information shown on this plan.

For information, the owner is advised that the location and depth of utilities may vary from the information shown on this plan. The owner is advised that the location and depth of utilities may vary from the information shown on this plan.

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SHEET INDEX

Sheet	Description
1	Cover/Title Sheet
2	Preliminary Plan
3	Grading, Drainage, and Erosion & Sedimentation Control Plan
4	Water & Sewer Plan
5	Plan & Profile of Tundra Trail (see 0400-PT-001-001)
6	Plan & Profile of Tundra Trail (see 0400-PT-001-001) & Cowan's Creek
7	Grading and Drainage Detail Sheet
8	Erosion & Sedimentation Control Detail Sheet
9	Water Detail Sheet
10	Sewer Detail Sheet

Owner/Developer:

A. Sydes Construction, Inc.

100 Carolina Plantations Boulevard
Jacksonville, North Carolina 28546
Phone 910 455-4956

BELL AND PHILLIPS

Consulting Engineer - Land Surveyors - Land Planners

6000 North Boulevard - 28004
Phone 910 393-4111
Fax 910 393-4111
www.bellandphillips.com

Sheet 1 of 10

Consistent with
the State of North Carolina
Professional Engineer
and Professional Surveyor



Engineer: Jonathan L. McDaniel, PE
Surveyor: Jonathan L. McDaniel, PS
Exp. 11/11/11

87-20 PROPOSED + DRAINAGE TEST LOCATION PLAN

SWANSGATE

SUBGRADE

CAPE FEAR ENGINEERING

Daily Field Report

Page | 1

Project Name: <u>Swansgate</u>	Staff: J. Huber
Project Location: Swansboro, NC	Client Name: A. Sydes Construction, Inc.
Prime Contractor: A. Sydes Construction, Inc.	Job No: G2020-181
Sub-Contractor/Site Contractor: A. Sydes Construction, Inc.	Date: 8/14/2020
Weather: Partly Cloudy 75 °F	Time: -
Tests or Inspections Performed: <u>Hand Auger Density Test</u>	
Issues; Non-Compliances; Failing Tests: See Below	

A Cape Fear Engineering representative (J. Huber) arrived onsite to perform hand auger borings within the roadway alignments. Processed fill base soil material was encountered at all boring locations to a minimum depth of 12-inches.

CAPE FEAR ENGINEERING

Daily Field Report

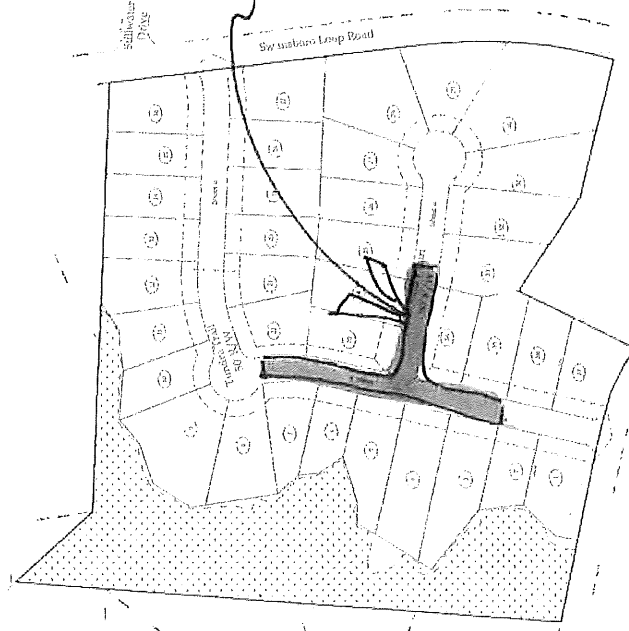
Page | 1

Project Name: <u>Swansgate</u>	Staff: J. Huber
Project Location: Swansboro, NC	Client Name: A. Sydes Construction, Inc.
Prime Contractor: A. Sydes Construction, Inc.	Job No: G2020-181
Sub-Contractor/Site Contractor: A. Sydes Construction, Inc.	Date: 9/3/2020
Weather: Partly Cloudy 91 °F	Time: -
Tests or Inspections Performed: Roadway base material re-proofroll	
Issues; Non-Compliances; Failing Tests: See Below	

A Cape Fear Engineering representative (J. Huber) arrived onsite to observe the re-proofroll of the roadway base material at the observed unstable area identified in our 8-7-2020 report. The re-proofroll operation in this area of the roadway revealed stable soil base conditions. Based on our inspection procedures and observations, the roadway areas evaluated for this phase of the project are considered suitable for asphalt placement.

Swansgate

Swansboro Township, Onslow County, North Carolina



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7	Grading and Drainage Detail Sheet
8	Erosion & Sedimentation Control Detail Sheet
9	Water Detail Sheet
10	Sewer Detail Sheet

Overall Plan



Main Street Extension
Proposed P.O.



Matthew L. McDaniel, PE
Civil & Mechanical Engineering

Owner/Developer:
A. Sydes Construction, Inc.
100 Carolina Plantations Boulevard
Jacksonville, North Carolina 28546
Phone: (252) 973-4101 - www.a-sydes.com
Fax: (252) 973-4102

BELL AND PHILLIPS
Consulting Engineers - Land Surveyors - Land Planners
404E Cedar Point Boulevard - 28554
Phone: (252) 973-4101 - www.bellandphillips.com
Firm License Number: F-0108



Sheet 1 of 10

Re-roofed Area

G2020-181

Swansgate

9-3-20

9-16-20

DATE _____

PROJECT NO.:	8144	MAP / RT. NO.:		CONTRACTOR:	Swansgate	PLANT LOCATION:	Onslow Gap	Hubert
--------------	------	----------------	--	-------------	-----------	-----------------	------------	--------

BASE TYPE: New Aggregate LANE DESC.: LF & RT BASELINE: N/A

TYPE MIX: 25 9.5 B

[illegible]

LOT AVERAGE

025

LOT PASSES

LOT FAILS

NOTE: CONTRACTOR MUST BE NOTIFIED BY LETTER OF ANY PAY ADJUSTMENTS OR PAVEMENT REMOVAL.

CONSTRUCTION TYPE:
THE "NEW" CONSTRUCTION CATEGORY WILL BE DEFINED AS PAYEMENTS,
EXCLUSIVE OF IRREGULAR AREAS MEETING ALL THREE OF THE FOLLOWING
CRITERIA:

- 1.) PAVEMENT PLACED ON A NEW AGGREGATE OR SOIL BASE COMPACTED
TO THE SPECIFIED DENSITY OR PAVEMENT PLACED ON A NEW ASPHALT
MIX LAYER (EXCLUDING WEDGING AND LEVELING);
- 2.) PAVEMENT WHICH IS WITHIN A DESIGNATED TRAVEL LANE OF THE
FINAL TRAFFIC PATTERN; AND
- 3.) PAVEMENT WHICH IS 4.0 FEET
AS AN EXCEPTION, WHEN THE FIRST LAYER OF MIX IS PLACED ON AN
UNPRIMED AGGREGATE BASE AND IS 2.0 INCHES (50 MILLIMETERS) OR LESS
IN THICKNESS, THE LAYER WILL BE INCLUDED IN THE "OTHER"
CONSTRUCTION" CATEGORY.

THE "OTHER" CONSTRUCTION CATEGORY WILL INCLUDE ALL PAVEMENT
EXCEPT AS DESCRIBED ABOVE AND ALSO ALL S 4.75 A MIX TYPES.

*** BY PROVIDING THIS DATA UNDER MY SIGNATURE AND/OR
HICAMS CERTIFICATION NUMBER, I ATTEST TO THE ACCURACY
AND VALIDITY OF THE DATA CONTAINED ON THIS FORM AND
CERTIFY THAT NO DELIBERATE MISREPRESENTATION OF TEST

☒

OTHER

ALAN

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DAILY CORE LOCATION & LOT SUMMARY

DATE _____

9-16-22

wasgate

二五九

PROJECT NO.:

MAP /RT. NO.:

was in it - qcs

CONTRACTOR: Enslow GfP

PLANT LOCATION: Hubert

BASE TYPE:

New Aggregate

LANE DESC.:

7.2 + 2.1

BASELINE: n/a

TYPE MIX:

259.53

IME NO.:

8-115-157-81

PROJECT
ENGINEER.

[illegible]

CONSTRUCTION TYPE:

THE "NEW" CONSTRUCTION CATEGORY WILL BE DEFINED AS PAVEMENTS, EXCLUSIVE OF IRREGULAR AREAS MEETING ALL THREE OF THE FOLLOWING CRITERIA:

1.) PAVEMENT PLACED ON A NEW AGGREGATE OR SOIL BASE COMPACTED TO THE SPECIFIED DENSITY OR PAVEMENT PLACED ON A NEW ASPHALT MIX LAYER (EXCLUDING WEDGING AND LEVELING);

2.) PAYMENT WHICH IS WITHIN A DESIGNATED TRAVEL LANE OF THE FINAL TRAFFIC PATTERN, AND

3.) PAVEMENT WHICH IS 4.0 FEET (12 METERS) OR WIDER

AS AN EXCEPTION WHEN THE FIRST LAYER OF MIX IS PLACED ON AN IMPRIMER ACCURATE PACE AND IS TO COVER 100 PERCENT OF THE

IN THICKNESS, THE LAYER WILL BE INCLUDED IN THE "OTHER" CONSTRUCTION" CATEGORY

THE "OTHER" CONSTRUCTION CATEGORY WILL INCLUDE ALL PAVEMENT EXCEPT AS DESCRIBED ABOVE AND ALSO ALL S 475 A MIX TYPES CONSTRUCTION" CATEGORY.

APPENDIX

OTHER

* BY PROVIDING THIS DATA UNDER MY SIGNATURE AND/OR
HICAMS CERTIFICATION NUMBER, I ATTEST TO THE ACCURACY
AND VALIDITY OF THE DATA CONTAINED ON THIS FORM AND
CERTIFY THAT NO DELIBERATE MISREPRESENTATION OF TEST

NOTE: CONTRACTOR MUST BE NOTIFIED BY LETTER OF ANY PAY ADJUSTMENTS OR PAYMENT REMOVAL

LOT AVERAGE

10

LOT PASSEX

LOT FALLS

* PRINT CERTIFIED QMS TECHNICIAN'S NAME - HIGAMS#

* CERTIFIED OMS TECHNICIAN'S SIGNATURE

* PRINT OC PLANT TECHNICIAN'S NAME	HC4MS#

* CERTIFIED QC PLANT TECHNICIAN'S SIGNATURE

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

WORKSHEET FOR ROADWAY CORE SAMPLE DENSITY DETERMINATION & COMPARISON

PROJECT NUMBER: #8411 SWANS CREEK TYPE MIX: 189.5B MIN. % COMPACTION REQ.: 90%

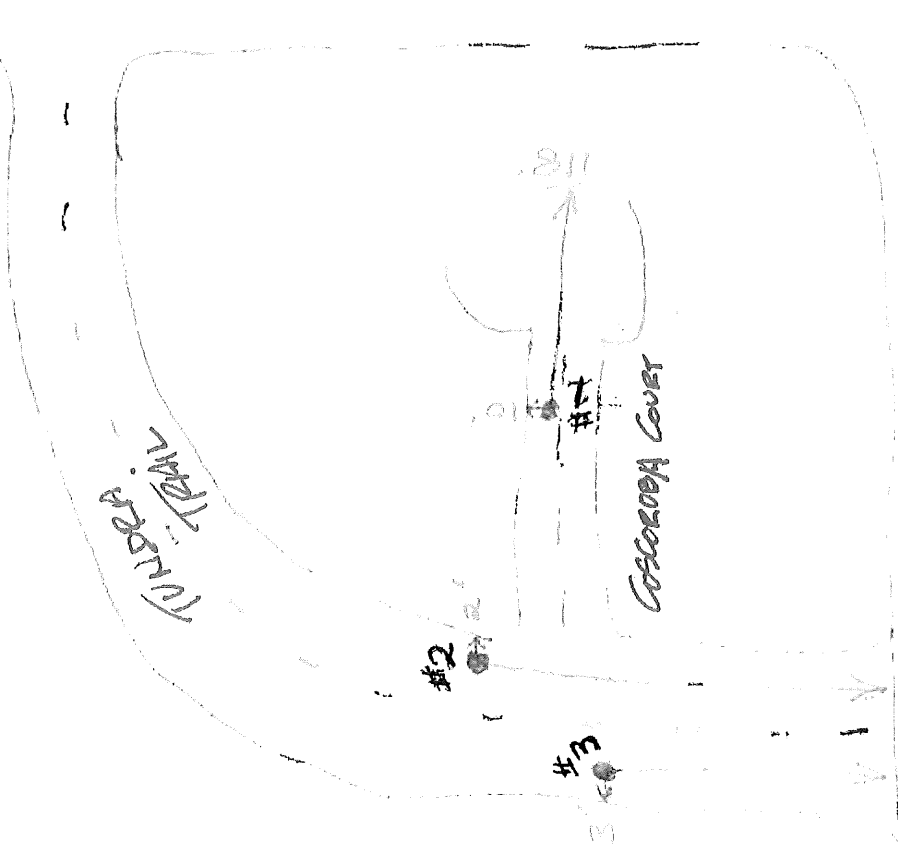
CONTRACTOR: Okslow Corp PLANT LOCATION: HUBERTON

[illegible]

NOTE: QC TO FAX CURRENT FORM TO QA DAILY DURING PRODUCTION.

Swansgate

9-16-20



ASPHALT
CORE
LOCATION



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
HOT MIX ASPHALT QUALITY CONTROL TEST WORKSHEET

2/11/2008

Type Mix: RS9.5B

QC Sample Date: 9/19/2020

JMF Pba:

0.5

MD Gb:

1.031

Plant Location: Hubert

QC Sample No.: #8144 Swansgate

JMF Gse:

2.632

Calculated Gse:

Plant Cert No: AS-260

JMF No.: 18-1115-151

JMF Gsb:

2.598

Corrected Gsb:

Dry & Pan Weights		Pan Wt.
Agg Wt after Ignition	1,189.3	<0.2% of
Dry Wt after Wash	1,128.1	Dry Wt
Pan Weight	1,128.0	After Sieving?
% Loss from Sieving	0.01	Yes

Furnace Weights		Furnace
Basket + Mix	4,765.7	Scale
Basket Wt.	3,492.6	Within
Total Mix Wt.	1,273.1	5.0 grams?
Furnace Readout	4,768.4	YES 3.1

% Binder (Pb)	
JMF %Binder	6.2
% Binder from Burn	6.1

Moisture Content	
Mix Sample Weight	
Mix Dry Weight	
Mix % Moisture	#DIV/0!

VMA	17.4
VFA	#DIV/0!
%Gmm@Nini	#DIV/0!
P0.075 / Pbe Ratio	1.1

Gradation Data (all weights are after burn weights)					
SIEVE	Accumulated Weight	Percent Retained	% Pass	Correction Factor (B)	TOTAL PASS (A-B)
37.5 mm	-	0.0	100.0		100
25.0 mm	-	0.0	100.0		100
19.0 mm	-	0.0	100.0		100
12.5 mm	3.6	0.3	99.7		100
9.5 mm	57.2	4.8	95.2		95
4.75 mm	211.0	17.7	82.3		82
2.36 mm	412.5	34.7	65.3		65
1.18 mm	637.1	53.6	46.4		46
.600 mm	786.2	66.1	33.9		34
.300 mm	906.8	76.3	23.7		24
.150 mm	1,031.7	86.8	13.2		13
.075 mm	1,117.8	94.0	6.0		6
PAN	1,128.0			Constant =	0.08409

Hot Bin Weights (Batch Plant)	#1	#2	#3	#4	#5
Cold Feed (materials)	78	WASHED	BLENDED	RAP	
Percentages	27	39	19	15	

.20/4750

A. Weight	34	537	83.1	8.53%
B. Weight	33	537	83.1	8.53%
C. Weight	32	537	83.1	8.53%
D. Weight	2	432	1.5	0.12%
E. Uncorr	1	435	0.9	0.07%
Specific Gr				
Weightin				
0 Min				
15 Min				
30 Min				
45 Min				
60 Min				
75 Min				
F. Weight				
G. Weight				
H. Max S				
I. Dry Ba				
J. (E) -				
K. Rehe				
L. (H) x				

Tested By: J. Smith

Mix Type: RS9.5B

Sample ID: #8144 Swansgate

Time: 10:31:27

Date: 08-19-20

For G

ALUE!

Gyratory Compacted Specimen Test Data

Specimen Number	A). Height @ Nini	B). Height @ Ndes	C). Dry In Air	D). SSD In Air	E). Weight In Water	F). Gmb @ Ndes Measured	G). Gmb @ Ndes Estimated	H). @ Nini	I). @ Ndes	J). Correction Factor	K). Gmb @ Nini Estimated	L). Gmb @ Nini Corrected	M). Gmb Rice Grav	N). VTM @ Ndes
	Measured	Measured	Measured	Measured	Measured	C/(D-E)	C/I	Ax17.6715	Bx17.6715	F/G	C/H	J x K	Measured	Measured
1						#DIV/0!	#DIV/0!	0.0	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2						#DIV/0!	#DIV/0!	0.0	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
3						#DIV/0!	#DIV/0!	0.0	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
AVERAGES						#DIV/0!	#DIV/0!							

*NOTE: BY PROVIDING THIS DATA UNDER MY SIGNATURE AND/OR HICAMS CERTIFICATION NUMBER, I

ATTEST TO THE ACCURACY AND VALIDITY OF THE TEST DATA CONTAINED ON THIS FORM AND CERTIFY

THAT NO DELIBERATE MISREPRESENTATION OF TEST RESULTS, IN ANY MANNER, HAS OCCURRED

Justin F. Smith P2S-14129

* PRINT NAME, LEGIBLE CAPITALS

QA/QC TECHNICIAN SIGNATURE

018376

Onslow Grading & Paving, Inc.

OFFICE: 115 Atlas Brown Drive
Jacksonville, NC 28540

PLANT: 103 Waterfront Dr.
Hubert, NC 28539

OFFICE NUMBER: (910) 346-8266

Reference 169377

Onslow Grading and Paving

Job No.	Truck No.	Tons Req.	Product No.	Product Description
8144 None	AB-411	18.08	RS 9.5B 18	18-1115-151

Daily Load# 4

Daily Ton: 79.86

Time: 7:58

09/19/20

Tare Wt (lb): 25160
Net Wt (lb): 36160
GVW (lb): 61320

NORTH CAROLINA
PUBLIC WEIGHTMASTER
LICENSE EXPIRES JUNE 30, 2021
MICHAEL LUCAS 43468

NORTH CAROLINA
PUBLIC WEIGHTMASTER
LICENSE EXPIRES JUNE 30, 2021
CHRISTOPHER B. HILL 30169

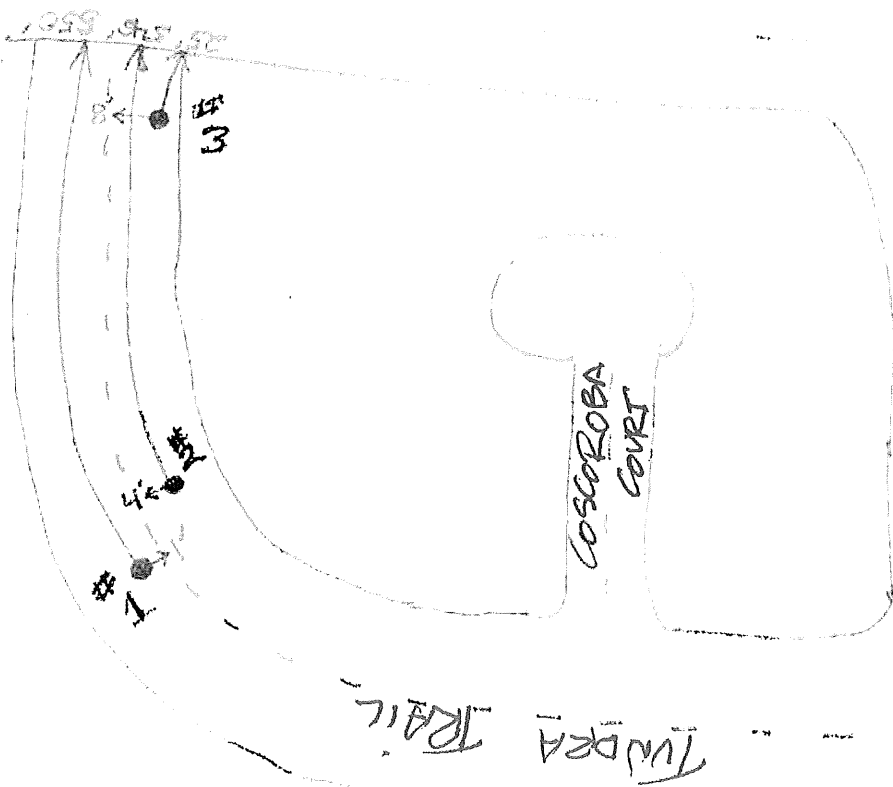
WARNING! VAPORS MAY CONTAIN IRRITANTS. AVOID BREATHING VAPORS OR FACIAL CONTACT. HEATED MATERIAL CAN CAUSE SEVERE BURNS. COLD MATERIAL CAN CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. REFER TO MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION ON THIS PRODUCT.

INVOICES SIGNED

(1) Office (2) Customer (3) Plant (4) Driver

9-19-20

Swansgate



ASPHALT
CORE
LOCATION

Main Exit

WORKSHEET FOR ROADWAY CORE SAMPLE DENSITY DETERMINATION & COMPARISON

901

PLANT LOCATION: HUBERT, NV

[illegible]

NOTE: QC TO FAX CURRENT FORM TO QA DAILY DURING PRODUCTION.

Project Description: Swansgate Subdivision County: ONSLOW Date: 9/22/2020

Hot Mix Asphalt Supplier:

ONSLOW GRADING & PAVING

(Must be NCDOT Certified Plant)

Provision under which the Asphalt Mixture will be tested

☒ Maintenance Version

Plant 1: HUBERT, NC

Cert.# AS260

☐ 2002 Specification as revised
by current Project Special Provision

Plant 2: _____

Cert.# _____

Plant 3: _____

Cert.# _____

Superpave Mix Types

NCDOT Approved Job Mix Formula Number(s)

	Plant 1	Plant 2	Plant 3
RS9.5B	18-1115-151		
RS9.5C	18-1114-151		

Company and Individual(s) performing Asphalt Mix Testing:

ONSLOW GRADING & PAVING

(Minimum Requirement is QMS Level I Plant Certification)

JUSTIN F. SMITH

QMS Cert.# P2S-14129

ROGER K SMITH

QMS Cert.# P2S-1659

QMS Cert.# _____

QMS Cert.# _____

Company Performing Asphalt Placement:

ONSLOW GRADING & PAVING

Company and Individual(s) performing Asphalt Density Testing:

(QMS Level I Plant Technician and/or QMS Nuclear Gauge Operator)

Justin F. Smith

QMS Cert.# P2S-14129

QMS Cert.# _____

QMS Cert.# _____

QMS Cert.# _____

Proposed Type of Density Control

☐

Nuclear

☒

Core

QMS Certified Roadway Technician(s)

(Must be present during all laydown operations)

Zach Zapeda

QMS Cert.# RD1-13828

QMS Cert.# _____

QMS Cert.# _____

**Individual Certifying Pavement Conformance with NCDOT Specifications
and Typical Sections detailed on the approved plans:**

(NCDOT Certified QMS Level II Plant Technician or NC Registered Civil Engineer with expertise in asphalt testing and laydown procedures)

Individual: ROGER K SMITH

QMS Cert.# or NC PE# P2S-1659

Company: ONSLOW GRADING & PAVING

Phone Number: 910-340-1546

Comments: _____

Anticipated Asphalt Placement Date: 09/16/2020 & 09/19/2020

Form QMS-MV1

District Engineer is to copy the Division QA Lab and all parties listed above

Certification of Pavement Conformance

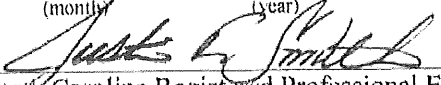
I, Justin F. Smith, certify that the Hot Mix Asphalt placed on the
Swansgate Subdivision project is in accordance with the North Carolina
Department of Transportation Specifications.

In signing above I certify that the asphalt mixture has been tested in accordance with either Article 609 of the 2002 Standard Specifications for Roads and Structures with current revisions or in accordance with the Quality Management System for Asphalt Pavements (Maintenance Version) dated March 2004. I certify that the asphalt mixture was placed in accordance with Article 610 of the 2002 Standard Specifications for Roads and Structures as modified by the Maintenance Provision dated March 2004. Further, I certify that the pavement structure was constructed to the depth, width and cross-section detailed on the Approved Plans. Any exceptions to the above Specifications or Approved Drawings have been previously addressed with the NCDOT Project Engineer and are explicitly detailed in an attached document.

Witness my original signature, and license or certification number, this the 22 day of
September, 2020.

(month)

(year)


North Carolina Registered Professional Engineer or
QMS Level II Plant Technician or

P2S-14129

License or Certification Number

Disclaimers:

This certification is based upon the attached test data and measurements and is not testimony to the workmanship of the asphalt pavement which is the sole responsibility of the company performing such work. The above signature shall not in any manner transfer to the signatory or waive such responsibility until the above project or portion thereof is accepted onto the state-maintenance system.

This certification is based upon the attached test data being accurate and authentic. Assurance of accuracy and authenticity rests with the individuals performing the tests and the companies they represent.

Attachments:

Asphalt Mixture Testing

Confirmation of testing performed at Department Certified Lab

Approved job-mix-formula number for each asphalt mixture utilized

Field verification test results with Superpave Gyratory Compactor (SGC) printouts for each asphalt mix design utilized

QC-1 form for each production day

QA/QC-1 form with binder content printout for each mixture sample tested

Density Testing

M&T 605 form for each production day

QC-5 form for each day when core samples are obtained

QA/QC-5 form for each day when core samples are obtained

Most recent nuclear gauge calibration- if applicable

M&T 514 QA/QC form for each nuclear control strip

M&T 516 QC form for each day nuclear density testing is performed