



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

Roy Cooper
Governor

J. Eric Boyette
Secretary

MEMO TO: Phillip Rogers, PE

FROM: Mr. Pat Ivey, PE

SUBJECT: Division 9 Final Pavement Design
U-6003, 8.123456789
-L- New Location Piney Grove Connector From NC 150/Main Street to SR 1969/Piney Grove Road
Forsyth County, Division 9

DATE: 7/24/2023

The pavement designs for the above project are as follows:

Line	Surface	Intermed.	Base	ABC	Stab.	SN _{REQ}
-L- New Location Piney Grove Connector	3.0" S9.5B	4.0" I19.0C	4.0" B25.0C	-	No	2.79
Y15 Piney Grove Road	3.0" S9.5B	4.0" I19.0C	4.0" B25.0C	-	No	2.95
Y16 Linville Springs Road	3.0" S9.5B	4.0" I19.0C	4.0" B25.0C	-	No	2.82
						1.89
						1.89
						1.89

Overlay the existing pavement with the following: 1.5" S9.5B
Mill existing pavement on NC 150 and Macy Grove Road to a depth of 1.5" and replace with 1.5" S9.5B.
For driveways -DR1- and -DR2- use 2.0" S9.5B and 4" B25.0C.
The mix designations provided for the above designs are in accordance with the 2018 NCDOT QMS manual.
If any additional information is needed, please contact: Connie James at 336-747-7800.

Design Information:

Initial Year:	2017	Projection Year:	2040
Initial Year ADT:	4,900	Proj. Yr. ADT:	10,300
% DUALS:	2.0	% TTST:	1.0
LANE/DIRECTION:	1	Des. Life (Years):	20
DIR %:	50	Subgrade M[r]:	8,043
Construction Year:	2024	Design TOT. 18K:	409,948
SN Required:	2.79	SN DESIGN:	4.28

SPI/ckj

cc: pavementrequests@ncdot.gov

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