

**CONTRACT: DA00438 WBS PROJECT: 2019CPT.01.06.20081.1, ETC.**

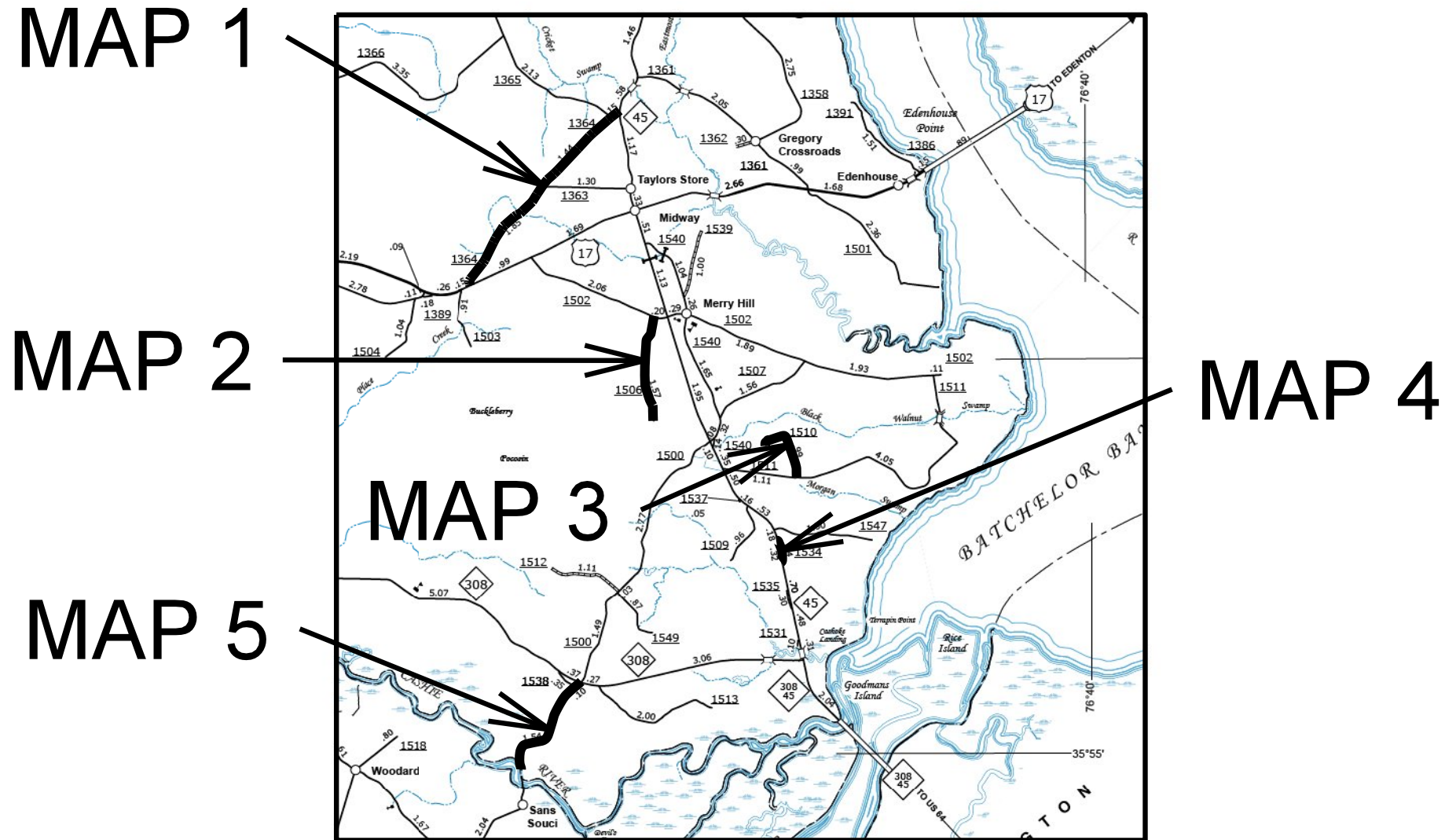
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**BERTIE COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.01.06.20081.1, ETC.	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2019CPT.01.06.20081.1		PE, CONST.	

**LOCATION:** MAP 1 SR 1364 FROM US 17 TO NC 45  
 MAP 2 SR 1506 FROM END OF MAINTENANCE TO SR 1502  
 MAP 3 SR 1510 FROM DEAD END TO SR 1511  
 MAP 4 SR 1534 FROM NC 45 TO NC 45  
 MAP 5 SR 1534 FROM END PAVEMENT TO NC 308

**TYPE OF WORK:** MILLING AND RESURFACING



**NTS**

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT MAP 1 = 3.44 MI.  
 LENGTH OF ROADWAY PROJECT MAP 2 = 1.28 MI.  
 LENGTH OF ROADWAY PROJECT MAP 3 = 0.90 MI.  
 LENGTH OF ROADWAY PROJECT MAP 4 = 0.34 MI.  
 LENGTH OF ROADWAY PROJECT MAP 5 = 1.65 MI.

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**

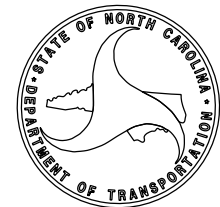
113 Airport Dr., Edenton NC, 27932

2018 STANDARD SPECIFICATIONS

LETTING DATE:

**W. B. HOBBS, P.E.**  
DIVISION PROJECT TEAM LEAD

**C. E. SLACHTA**  
DIVISION PROPOSALS ENGINEER



**CONTRACT: DA00438 WBS PROJECT: 2019CPT.01.06.20081.1, ETC.**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**BERTIE COUNTY**

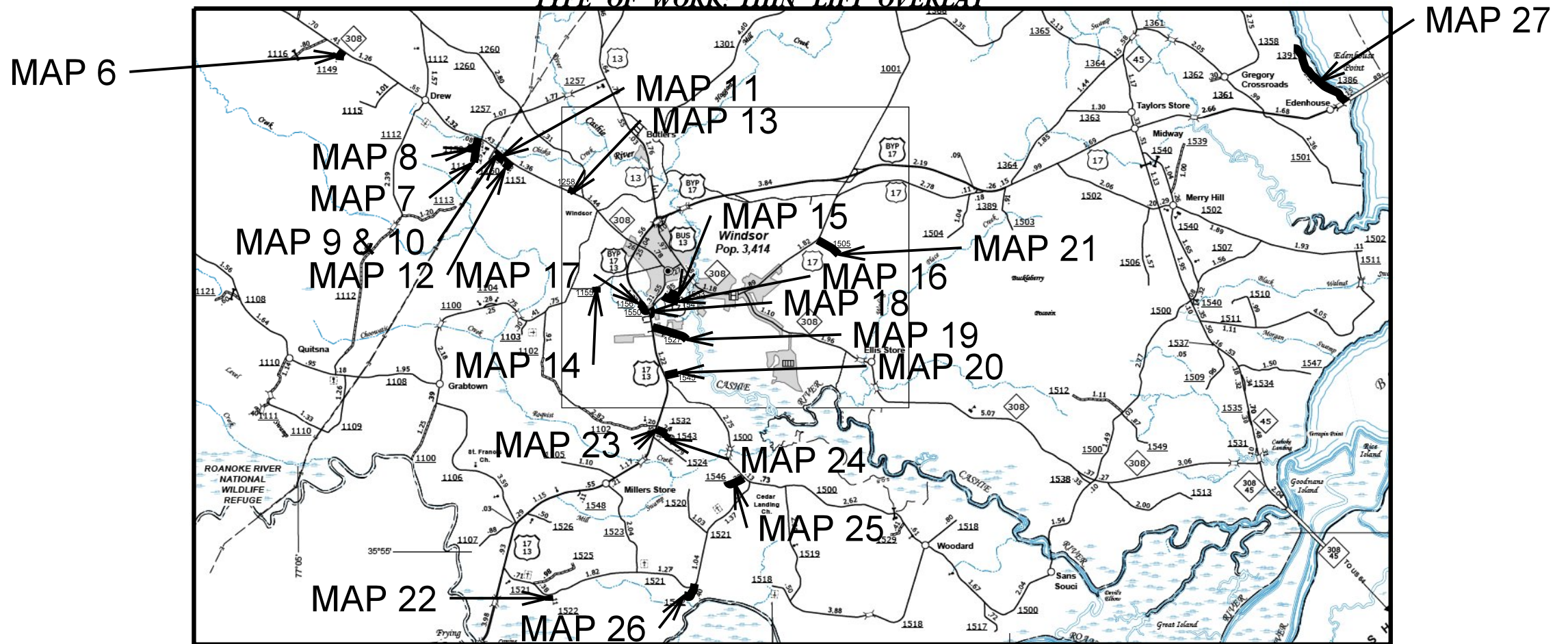


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.01.06.20081.1, ETC.	2	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2019CPT.01.06.20082.1		PE, CONST.	

**LOCATION:**

MAP 6 SR 1149 FROM DEAD END TO NC 308	MAP 17 SR 1156 FROM DEAD END TO US 13
MAP 7 SR 1114 FROM DEAD END TO NC 308	MAP 18 SR 1550 FROM CDS TO US 17
MAP 8 SR 1152 FROM DEAD END TO SR 1114	MAP 19 SR 1527 FROM DEAD END TO US 13
MAP 9 SR 1150 FROM DEAD END TO SR 1150	MAP 20 SR 1545 FROM DEAD END TO US 13
MAP 10 SR 1150 FROM SR 1150 TO NC 308	MAP 21 SR 1505 FROM END OF MAINTENANCE TO US 17 BUS
MAP 11 SR 1150 FROM SR 1150 TO NC 308	MAP 22 SR 1522 FROM DEAD END TO SR 1521
MAP 12 SR 1151 FROM DEAD END TO NC 308	MAP 23 SR 1532 FROM SR 1543 TO US 13
MAP 13 SR 1258 FROM DEAD END TO NC 308	MAP 24 SR 1543 FROM DEAD END TO SR 1532
MAP 14 SR 1155 FROM DEAD END TO SR 1100	MAP 25 SR 1546 FROM DEAD END TO SR 1500
MAP 15 SR 1533 FROM DEAD END TO US 17	MAP 26 SR 1542 FROM DEAD END TO SR 1521
MAP 16 SR 1541 FROM DEAD END TO US 17	MAP 27 SR 1391 FROM END OF MAINTENANCE TO US 17

**TYPE OF WORK: THIN LIFT OVERLAY**



**PROJECT LENGTH**

ROADWAY PROJECT MAP 6 = 0.17 MI.  
 ROADWAY PROJECT MAP 7 = 0.45 MI.  
 ROADWAY PROJECT MAP 8 = 0.18 MI.  
 ROADWAY PROJECT MAP 9 = 0.09 MI.  
 ROADWAY PROJECT MAP 10 = 0.19 MI.  
 ROADWAY PROJECT MAP 11 = 0.07 MI.  
 ROADWAY PROJECT MAP 12 = 0.16 MI.  
 ROADWAY PROJECT MAP 13 = 0.10 MI.  
 ROADWAY PROJECT MAP 14 = 0.11 MI.  
 ROADWAY PROJECT MAP 15 = 0.19 MI.  
 ROADWAY PROJECT MAP 16 = 0.36 MI.

**PROJECT LENGTH**

ROADWAY PROJECT MAP 17 = 0.30 MI.  
 ROADWAY PROJECT MAP 18 = 0.11 MI.  
 ROADWAY PROJECT MAP 19 = 0.74 MI.  
 ROADWAY PROJECT MAP 20 = 0.27 MI.  
 ROADWAY PROJECT MAP 21 = 0.52 MI.  
 ROADWAY PROJECT MAP 22 = 0.11 MI.  
 ROADWAY PROJECT MAP 23 = 0.24 MI.  
 ROADWAY PROJECT MAP 24 = 0.07 MI.  
 ROADWAY PROJECT MAP 25 = 0.38 MI.  
 ROADWAY PROJECT MAP 26 = 0.40 MI.  
 ROADWAY PROJECT MAP 27 = 1.56 MI.

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113 Airport Dr., Edenton NC, 27932

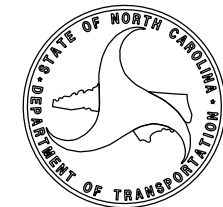
2018 STANDARD SPECIFICATIONS

LETTING DATE:

**NTS**

**W. B. HOBBS, P.E.**  
DIVISION PROJECT TEAM LEAD

**C. E. SLACHTA**  
DIVISION PROPOSALS ENGINEER





**CONTRACT: DA00438 WBS PROJECT: 2019CPT.01.06.20081.1, ETC.**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**MARTIN COUNTY**

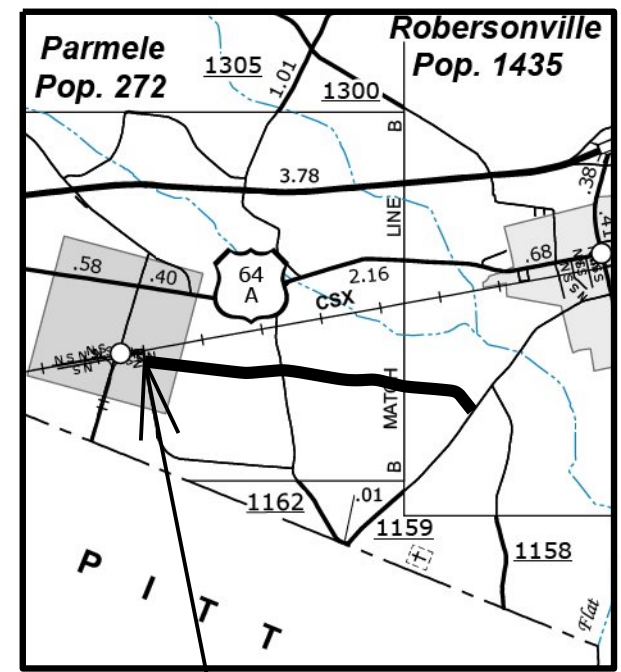
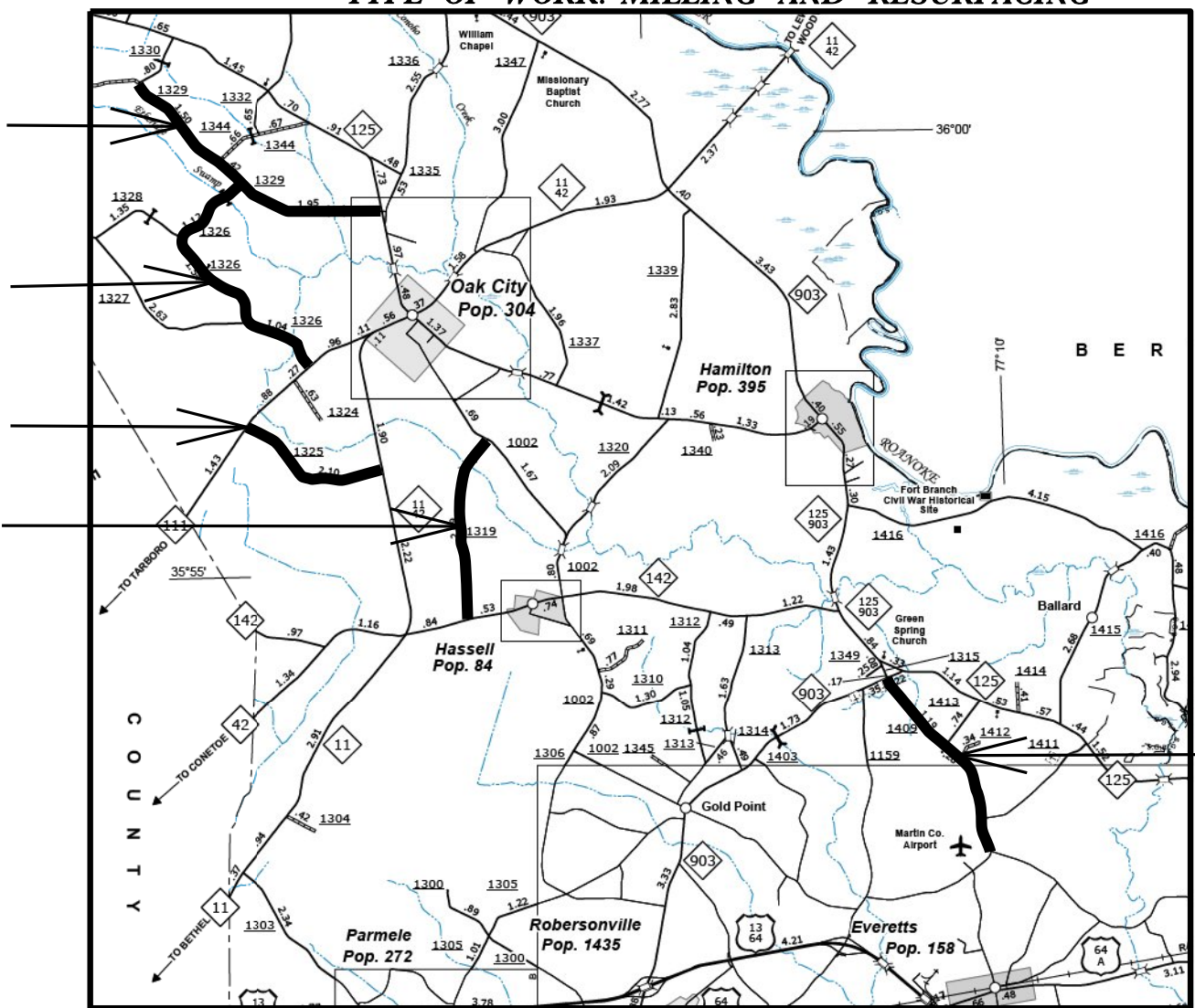
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.01.06.20081.1, ETC.	3	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2019CPT.01.06.20581.1		PE, CONST.	

**LOCATION:** MAP 28 SR 1329 FROM BEGIN PAVEMENT TO NC 125  
 MAP 29 SR 1326 FROM SR 1329 TO NC 111  
 MAP 30 SR 1325 FROM NC 111 TO NC 11  
 MAP 31 SR 1319 FROM SR 1002 TO NC 142  
 MAP 32 SR 1409 FROM SR 1404 TO NC 903  
 MAP 33 SR 1160 FROM SR 1162 TO SR 1159

**TYPE OF WORK: MILLING AND RESURFACING**



MAP 28  
 MAP 29  
 MAP 30  
 MAP 31



MAP 33  
 MAP 32

**NTS**

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT MAP 28 = 4.02 MI.  
 LENGTH OF ROADWAY PROJECT MAP 29 = 3.70 MI.  
 LENGTH OF ROADWAY PROJECT MAP 30 = 2.08 MI.  
 LENGTH OF ROADWAY PROJECT MAP 31 = 2.48 MI.  
 LENGTH OF ROADWAY PROJECT MAP 32 = 2.80 MI.  
 LENGTH OF ROADWAY PROJECT MAP 33 = 2.35 MI.

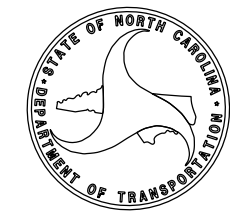
Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
113 Airport Dr., Edenton NC, 27932

2018 STANDARD SPECIFICATIONS

LETTING DATE:

**W. B. HOBBS, P.E.**  
DIVISION PROJECT TEAM LEAD

**C. E. SLACHTA**  
DIVISION PROPOSALS ENGINEER



CONTRACT: DA00438 WBS PROJECT: 2019CPT.01.06.20082.1, ETC.

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

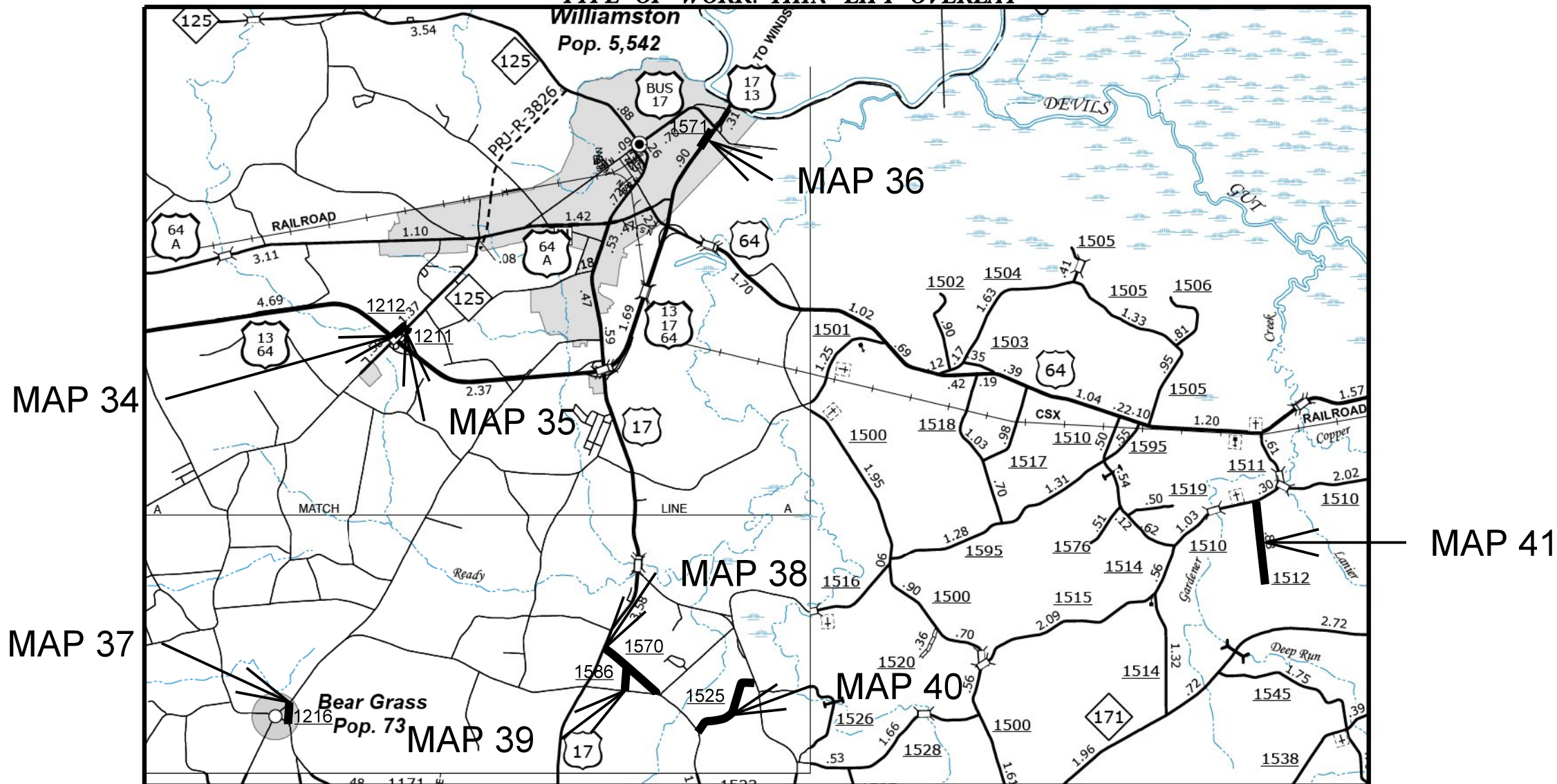
**MARTIN COUNTY**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2019CPT.01.06.20081.1, ETC.	4	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2019CPT.01.06.20582.1		PE, CONST.	

LOCATION: MAP 34 SR 1212 FROM DEAD END TO NC 125      MAP 38 SR 1570 FROM SR 1114 TO US 17  
 MAP 35 SR 1211 FROM DEAD END TO NC 125      MAP 39 SR 1586 FROM SR 1114 TO SR 1570  
 MAP 36 SR 1571 FROM DEAD END TO US 13      MAP 40 SR 1525 FROM SR 1516 TO SR 1523  
 MAP 37 SR 1216 FROM SR 1106 TO SR 1001      MAP 41 SR 1512 FROM DEAD END TO SR 1510

TYPE OF WORK: THIN LIFT OVERLAY



**NTS**

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT MAP 34 = 0.17 MI.  
 LENGTH OF ROADWAY PROJECT MAP 35 = 0.05 MI.  
 LENGTH OF ROADWAY PROJECT MAP 36 = 0.32 MI.  
 LENGTH OF ROADWAY PROJECT MAP 37 = 0.24 MI.  
 LENGTH OF ROADWAY PROJECT MAP 38 = 0.76 MI.  
 LENGTH OF ROADWAY PROJECT MAP 39 = 0.27 MI.  
 LENGTH OF ROADWAY PROJECT MAP 40 = 0.92 MI.  
 LENGTH OF ROADWAY PROJECT MAP 41 = 0.90 MI.

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
 113 Airport Dr., Edenton NC, 27932

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2018 STANDARD SPECIFICATIONS

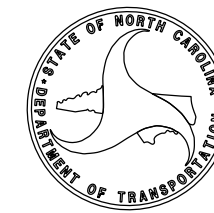
LETTING DATE: \_\_\_\_\_

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**W. B. HOBBS, P.E.**  
 DIVISION PROJECT TEAM LEAD

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**C. E. SLACHTA**  
 DIVISION PROPOSALS ENGINEER

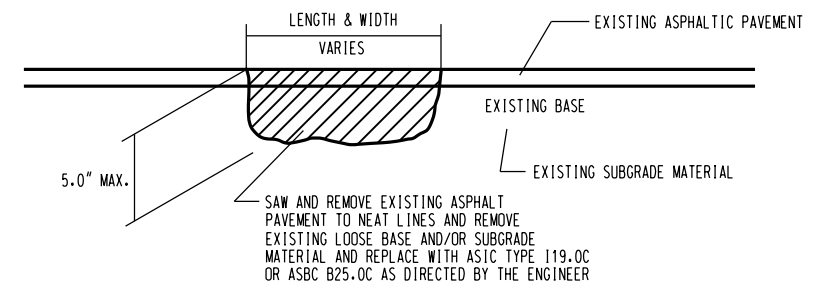


P A V E M E N T   S C H E D U L E

C	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.
T	EARTH MATERIAL.

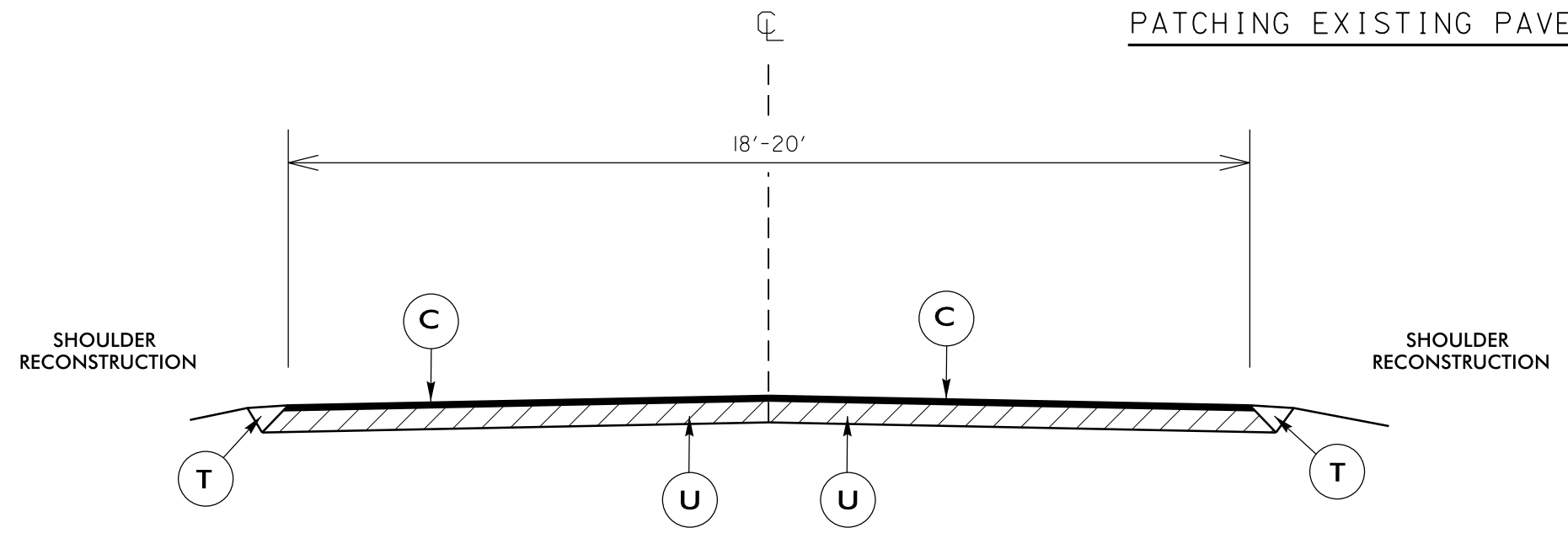
NOTES:

- \*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER.
- \*CONTRACTOR SHALL PERFORM MILL PATCHING PRIOR TO RESURFACING ON SELECT MAPS AS DIRECTED BY THE ENGINEER.
- \*CONTRACTOR SHALL PERFORM FULL DEPTH PATCHING PRIOR TO RESURFACING ON SELECT MAPS AS DIRECTED BY THE ENGINEER.



\*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

PATCHING EXISTING PAVEMENT



**TYPICAL SECTION NO. 1**  
USE WITH MAPS 1-5 & 28-33

**NTS**

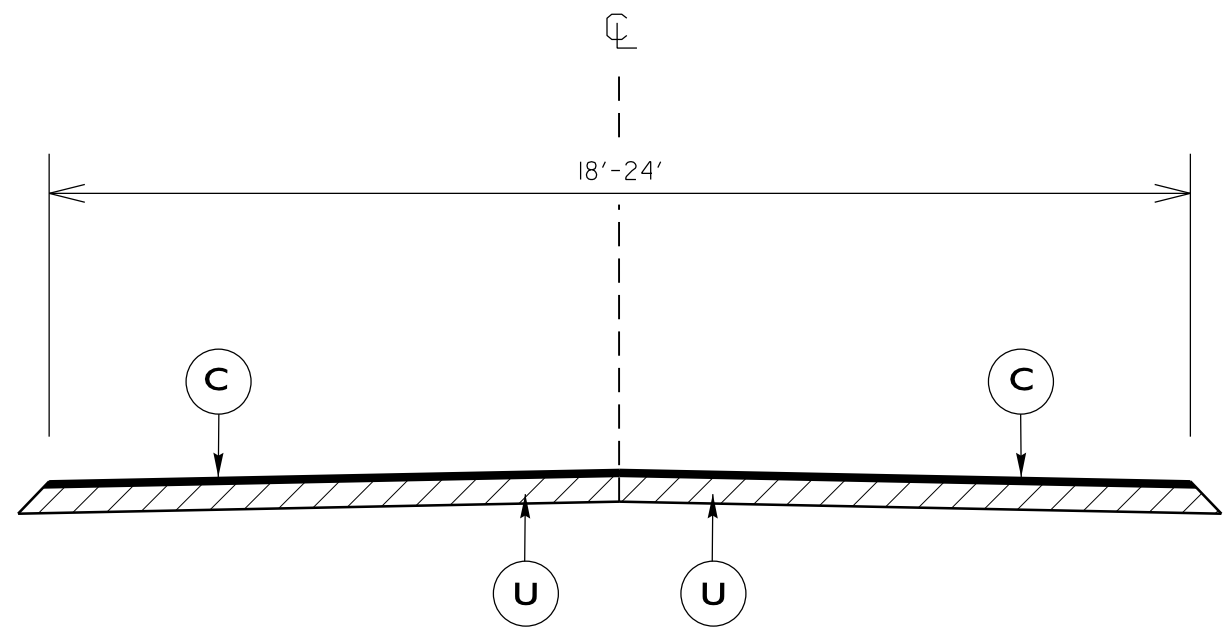


P A V E M E N T   S C H E D U L E

C	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S4.75A, AT AN AVERAGE RATE OF 100 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.

NOTES:

\*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII.,  
OR AS DIRECTED BY THE ENGINEER.



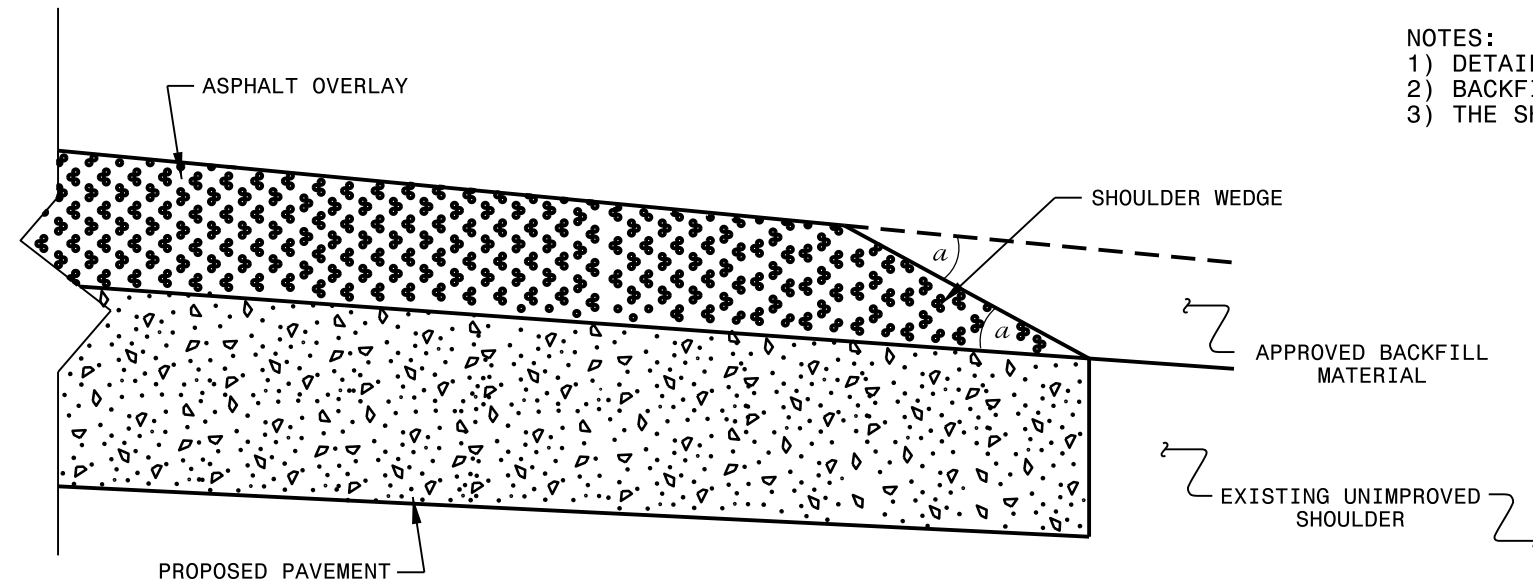
**TYPICAL SECTION NO. 2**

USE WITH MAPS 6-27 & 34-41

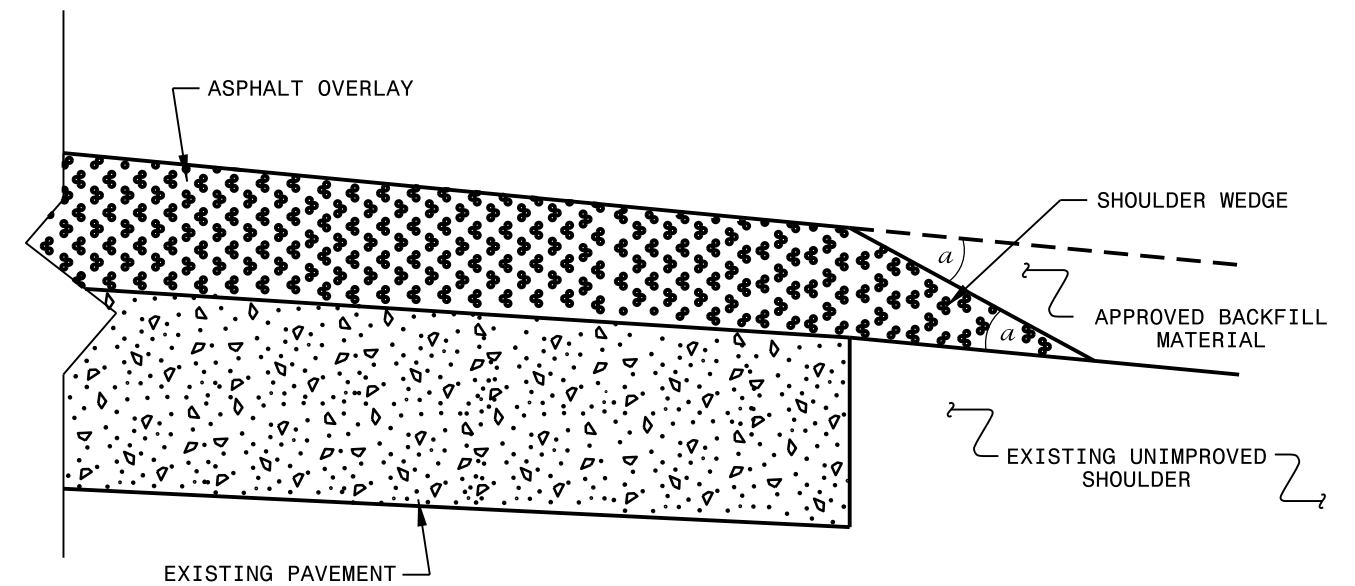
NTS



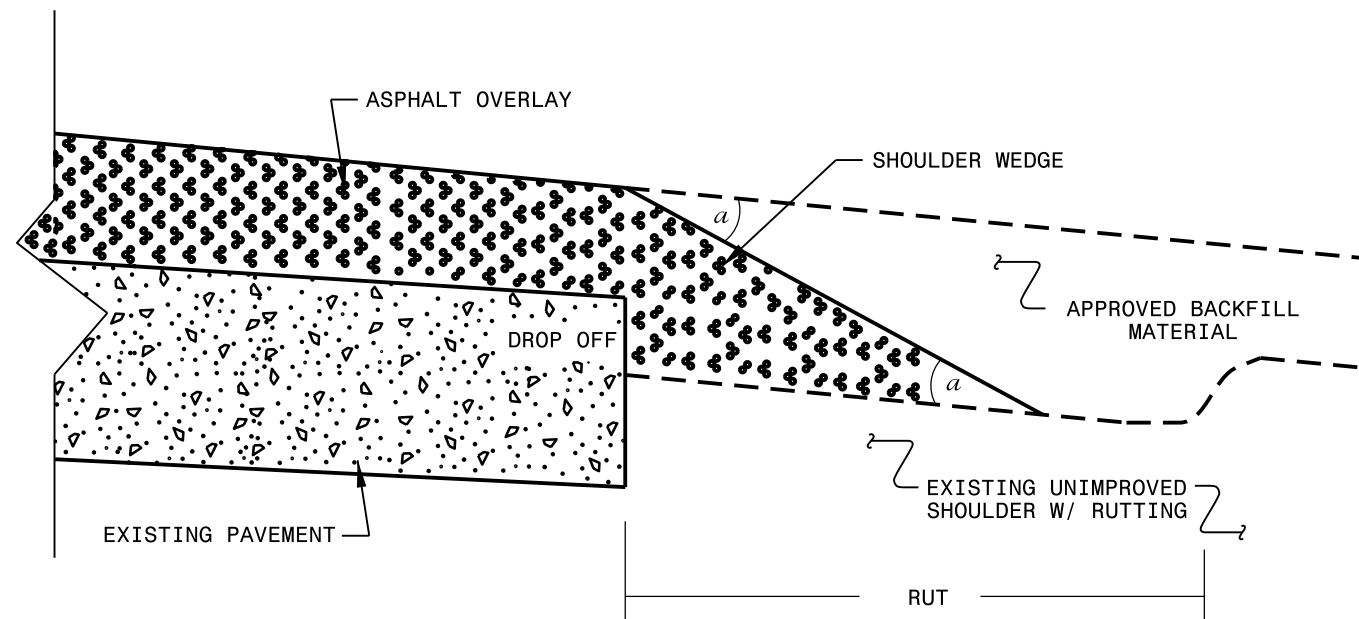
- NOTES:  
 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.  
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.  
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Projects w/ Widening or  
 with Existing Paved Shoulder having no dropoffs)



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Projects w/ NO Widening)



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Adjacent to  
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS  
 AND DEVELOPMENT UNIT  
 Office 919-707-6950 FAX 919-250-4119

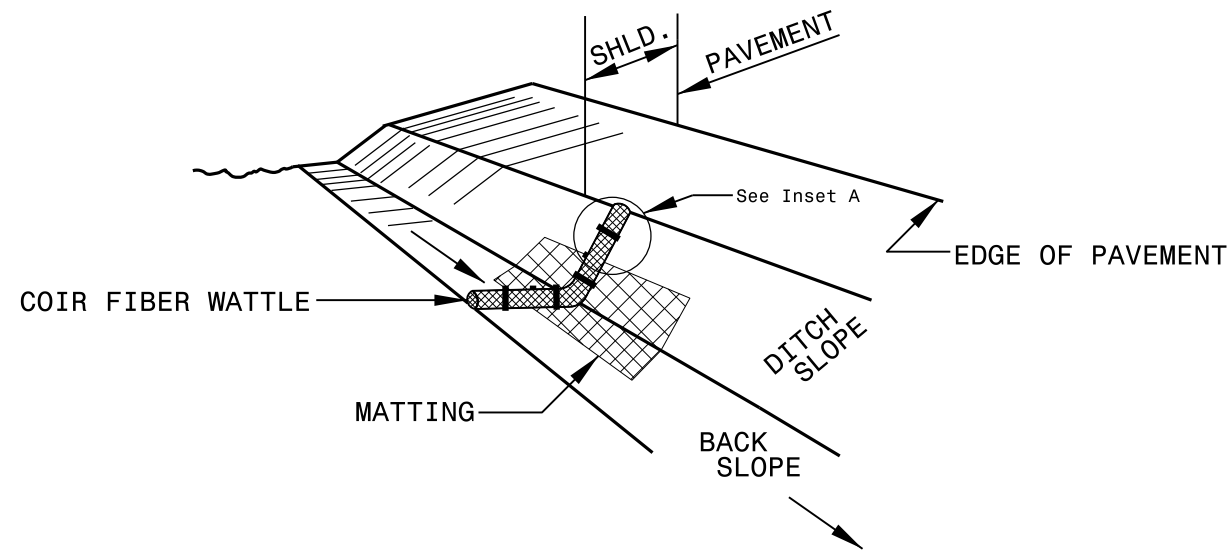
**SHOULDER WEDGE  
 DETAILS**

ORIGINAL BY: T.SPELL DATE: 7-19-11  
 MODIFIED BY: DATE: 10/16/12  
 CHECKED BY: DATE:  
 FILE SPEC.: szusr/details/stand/shoulderwedgedetail.dgn

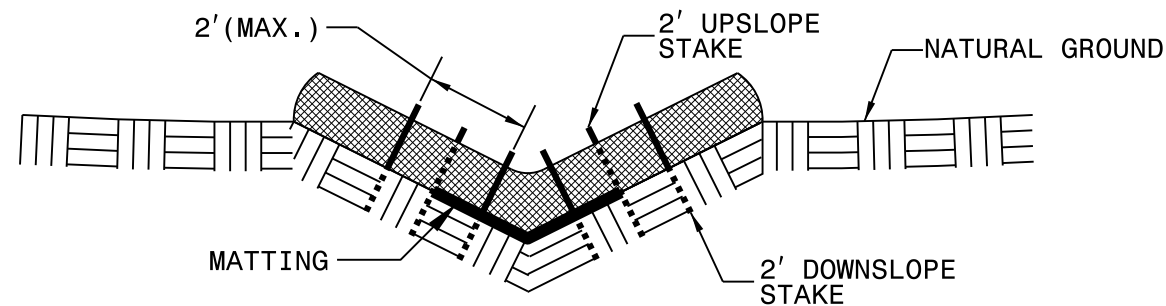


PROJECT REFERENCE NO. 2019CPT.01.06.2008II, ETC.	SHEET NO. 9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

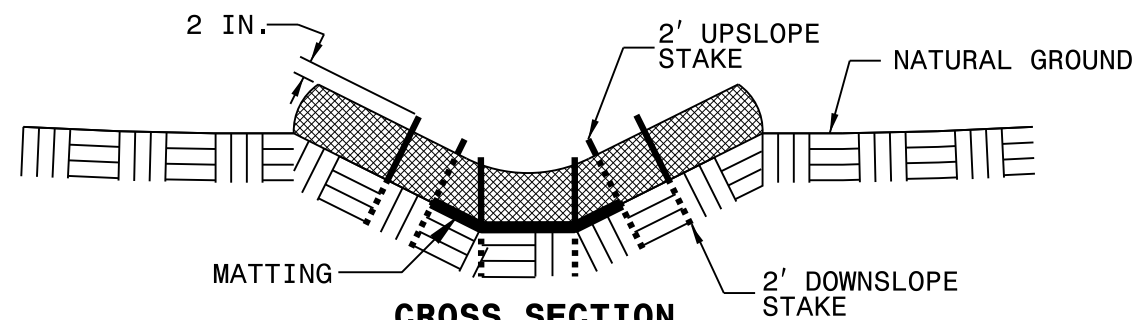
# COIR FIBER WATTLE DETAIL



**ISOMETRIC VIEW**



**CROSS SECTION VEE DITCH**



**CROSS SECTION TRAPEZOIDAL DITCH**

**NOTES:**

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

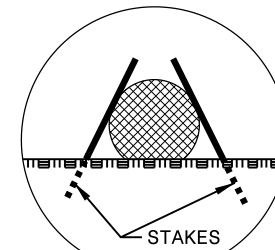
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

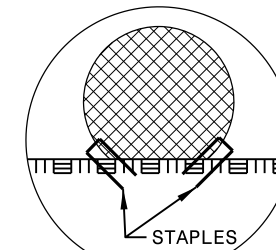
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

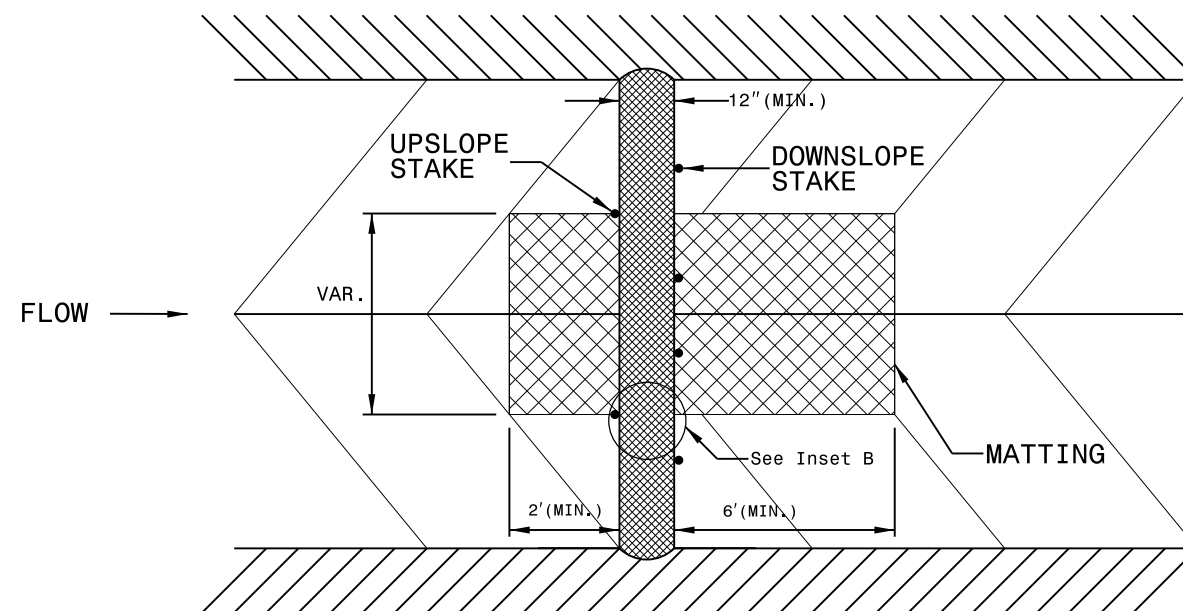
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B



**TOP VIEW**

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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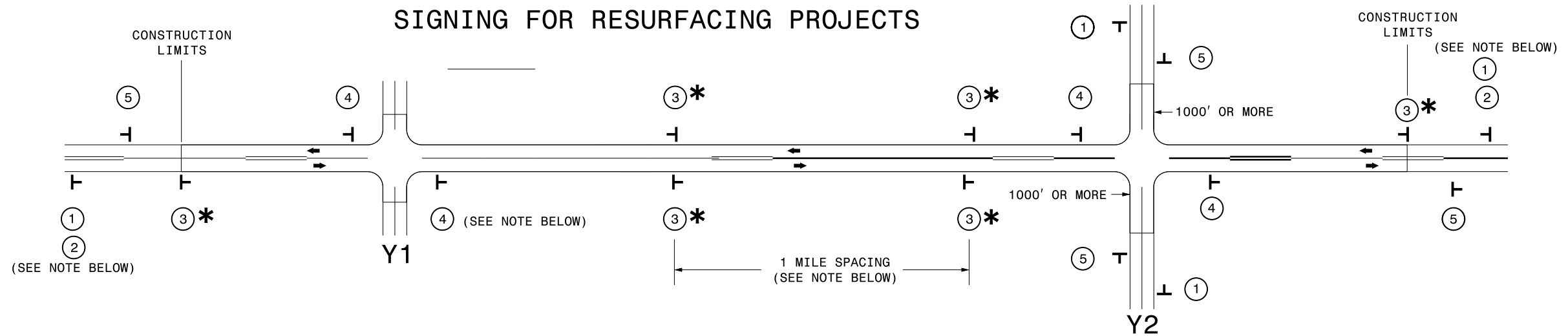


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## ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

## SIGNING FOR RESURFACING PROJECTS



LEGEND	
T	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	①	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.		
	②	 <small>W7-3aP 24" X 18"</small>	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)		
	③*	 <small>SP 13107 48" X 48"</small>	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.		
	④	 <small>SP 13106 48" X 48"</small>	THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.		
	⑤	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

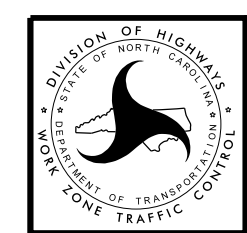
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

### \* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS:  
 STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).



RESURFACING  
ADVANCE WARNING SIGNS  
FOR  
RURAL AND SUBURBAN  
2 LANE ROADWAYS