

30-OCT-2020 11:44  
 SA Spurred\Division One Resurfacing & Retreatment Plans\Scott+2020-2021Resurfacing\DA00476-Gates US 13 & Secondary-Chowan & Perquimans Secondary\Design Files\DA00476\_D1d1c.s  
 \$\$\$USERNAME\$\$\$

**CONTRACT: DA00476 WBS PROJECT: 2021CPT.01.02.10211.1, ETC.**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**CHOWAN COUNTY**

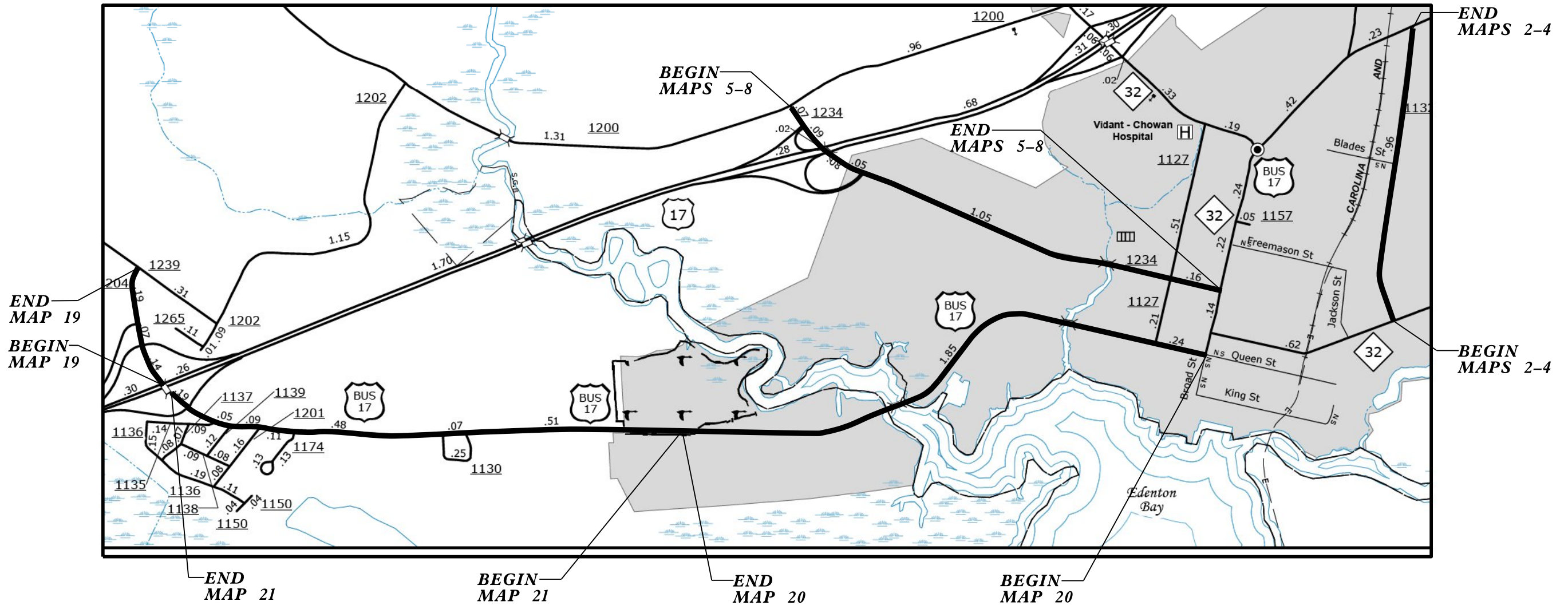
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	2021CPT.01.02.10211.1, ETC.	1
	STATE PROJ. NO.	DESCRIPTION
	20201PT.01.02.10211.1	PE, CONST
	20201PT.01.02.20211.1	PE, CONST

**LOCATION:**

MAP 2 - SR 1132 (COKE AVE.) FROM NC 32 TO BLADE ST.  
 MAP 3 - SR 1132 (COKE AVE.) FROM BLADE ST. TO BEGIN 3 LANE  
 MAP 4 - SR 1132 (COKE AVE.) FROM BEGIN 3 LANE TO US 17 BUS  
 MAP 5 - SR 1234 (MARTIN LUTHER KING DR.) FROM SR 1200 TO BEGIN C&G  
 MAP 6 - SR 1234 (MLK DR.) FROM BEGIN C&G TO BRIDGE #34

MAP 7 - SR 1234 (MLK DR.) FROM BRIDGE #34 TO SR 1127 (GRANVILLE ST.)  
 MAP 8 - SR 1234 (MLK DR.) FROM SR 1127 TO NC 32  
 MAP 19 - SR 1204 (W. QUEEN ST.) FROM US 17 OVERPASS TO SR 1239 (EMPEROR LANDING RD.)  
 MAP 20 - US 17BUS (QUEEN ST.) FROM S. BROAD ST. TO END C&G SECTION  
 MAP 21 - US 17BUS (QUEEN ST.) FROM END C&G SECTION TO US 17 OVERPASS

**TYPE OF WORK: MILLING & RESURFACING**



**GRAPHIC SCALES**

NTS

**PROJECT LENGTH**

LENGTH ROADWAY MAP 2	=	0.520 MILES
LENGTH ROADWAY MAP 3	=	0.250 MILES
LENGTH ROADWAY MAP 4	=	0.180 MILES
LENGTH ROADWAY MAP 5	=	0.250 MILES
LENGTH ROADWAY MAP 6	=	0.840 MILES
LENGTH ROADWAY MAP 7	=	0.200 MILES
LENGTH ROADWAY MAP 8	=	0.150 MILES
LENGTH ROADWAY MAP 19	=	0.380 MILES
LENGTH ROADWAY MAP 20	=	1.696 MILES
LENGTH ROADWAY MAP 21	=	1.819 MILES

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

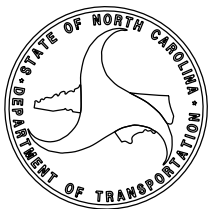
113 AIRPORT DR., EDENTON, NC, 27932

2018 STANDARD SPECIFICATIONS

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

CHRIS SLACHTA  
DIVISION PROPOSALS ENGINEER

S.P. FENWICK, PLS  
DESIGN ENGINEER



30-OCT-2020 11:40  
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 \$\$\$USERNAME\$\$\$

**CONTRACT: DA00476 WBS PROJECT: 2021CPT.01.02.10211.1, ETC.**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**GATES COUNTY**

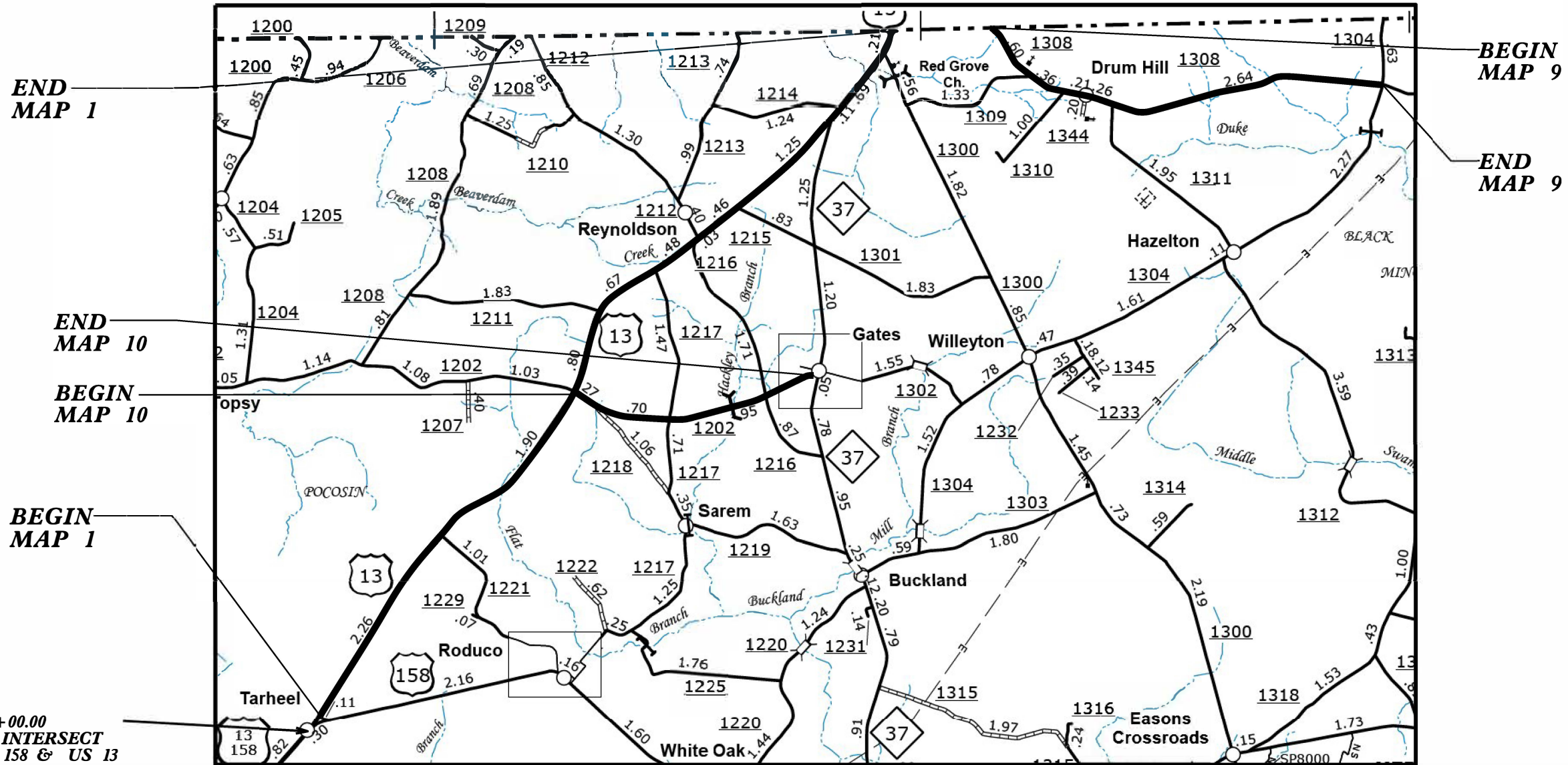
LOCATION: MAP 1 - US 13 FROM US 158 TO NCVA LINE

MAP 9 - SR 1308 (DRUM HILL RD) FROM VA STATE LINE TO SR 1304 (WILLEYTON RD)

MAP 10 - SR 1202 (GATES SCHOOL RD) FROM US 13 TO NC 37

TYPE OF WORK: MILLING & RESURFACING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	2021CPT.01.02.10211.1, ETC.	2
	STATE PROJ. NO.	DESCRIPTION
	2021CPT.01.02.10371.1	PE, CONST
	2021CPT.01.02.20371.1	PE, CONST



GRAPHIC SCALES

NTS

PROJECT LENGTH

LENGTH ROADWAY MAP #1 = 8.40 MILES  
 LENGTH ROADWAY MAP #9 = 4.08 MILES  
 LENGTH ROADWAY MAP #10 = 2.46 MILES

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**DIVISION OF HIGHWAYS**

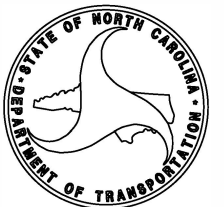
113 AIRPORT DR., EDENTON, NC, 27932

2018 STANDARD SPECIFICATIONS

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

CHRIS SLACHTA  
DIVISION PROPOSALS ENGINEER

S.P. FENWICK, PLS  
DESIGN ENGINEER



30-OCT-2020 11:36  
 SA Shared\Division One Resurfacing & Retreatment Plans\Scott-2020-2021Resurfacing\DA00476-Gates US 13 & Secondary-Chowan & Perquimans Secondary\Design Files\DA00476.Dwg.s  
 09/08/19  
 \$\$\$USERNAME\$\$\$

**CONTRACT: DA00476 WBS PROJECT: 2021CPT.01.02.10211.1, ETC.**

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

**PERQUIMANS COUNTY**

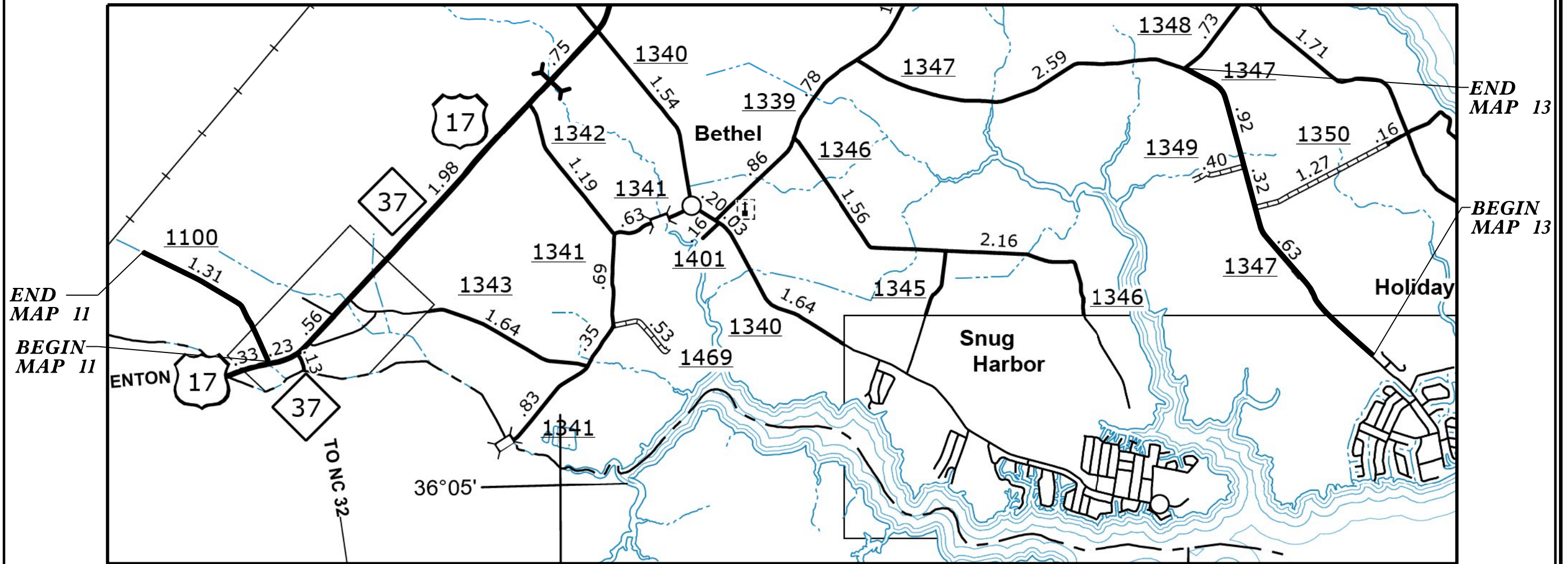
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N.C.	2021CPT.01.02.10211.1, ETC.	3
STATE PROJ. NO.		DESCRIPTION
2021CPT.01.02.20721.1		PE, CONST.



MAP 11 - SR 1100 (DAVENPORT LN) FROM US 17 TO END MAINTENANCE

MAP 13 - SR 1347 (HOLIDAY ISLAND RD) FROM SR 1429 (HOLIDAY LN) TO SR 1348 (BURGESS RD)

TYPE OF WORK: RESURFACING & SHOULDER RECONSTRUCTION



GRAPHIC SCALES

NTS

PROJECT LENGTH

LENGTH ROADWAY MAP #11 = 1.13 MILES

LENGTH ROADWAY MAP #13 = 1.87 MILES

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

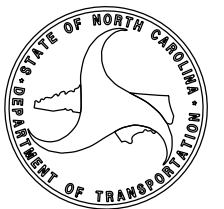
113 AIRPORT DR., EDENTON, NC, 27932

2018 STANDARD SPECIFICATIONS

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

CHRIS SLACHTA  
 DIVISION PROPOSALS ENGINEER

S.P. FENWICK, PLS  
 DESIGN ENGINEER



30-OCT-2020 11:33  
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**CONTRACT: DA00476 WBS PROJECT: 2021CPT.01.02.10211.1, ETC.**



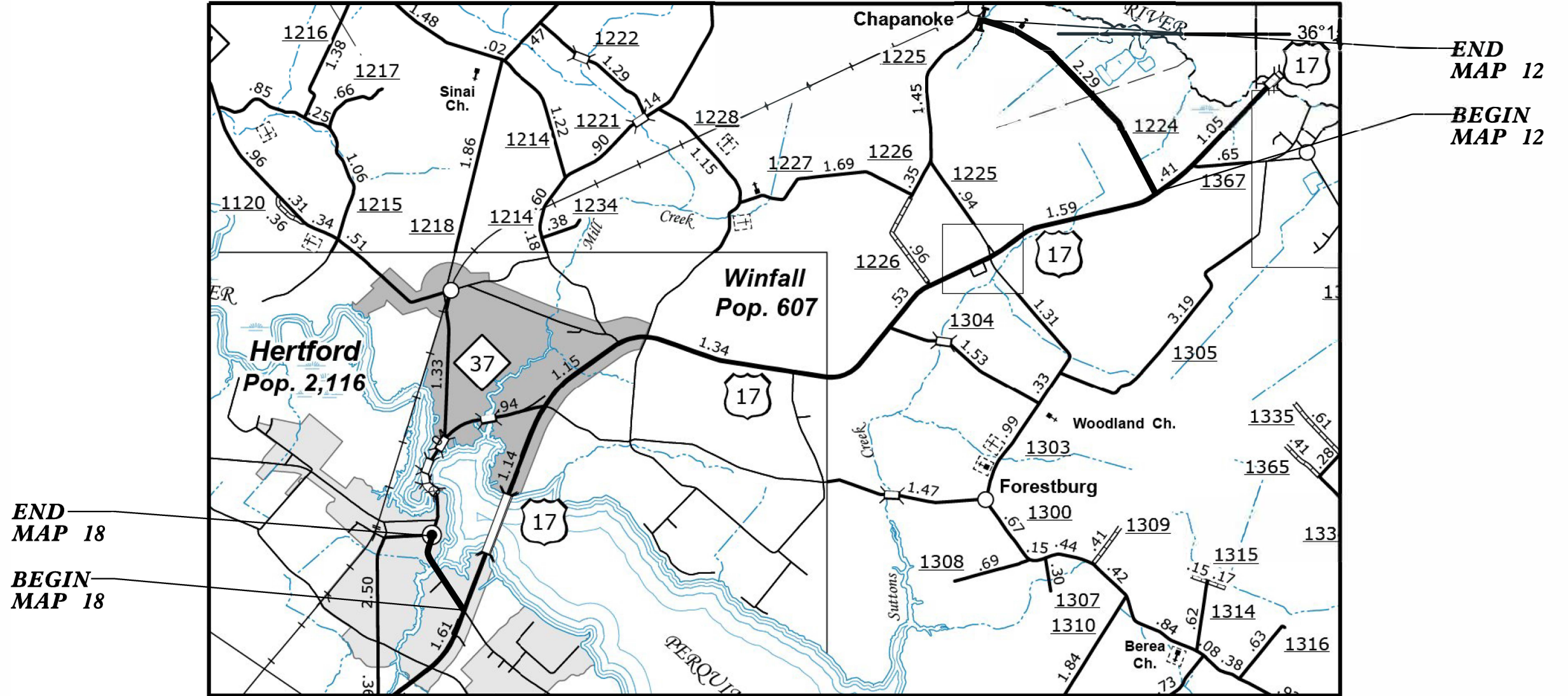
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**PERQUIMANS COUNTY**

LOCATION: MAP 12 - SR 1224 (WEIGHT STATION RD) FROM US 17 TO SR 1225 (CHAPANOKE RD)  
 MAP 18 - SR 1336 (CHURCH ST.) FROM US 17 TO US 17BUS

TYPE OF WORK: RESURFACING & SHOULDER RECONSTRUCTION

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	2021CPT.01.02.10211.1, ETC.	4
STATE PROJ. NO.		DESCRIPTION
2021CPT.01.02.20721.1		PE, CONST



GRAPHIC SCALES

NTS

PROJECT LENGTH

LENGTH ROADWAY MAP #12 = 2.260 MILES

LENGTH ROADWAY MAP #18 = 0.780 MILES

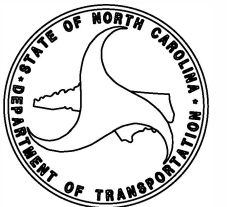
Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
 113 AIRPORT DR., EDENTON, NC, 27932

2018 STANDARD SPECIFICATIONS

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

CHRIS SLACHTA  
 DIVISION PROPOSALS ENGINEER

S.P. FENWICK, PLS  
 DESIGN ENGINEER



30-OCT-2020 11:30  
 SA Shared\Division One Resurfacing & Retreatment Plans\Scott\_2020-2021Resurfacing\DA00476-Gates US I3 & Secondary-Chowan & Perquimans Secondary\Design Files\DA00476\_Diddac.s  
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**CONTRACT: DA00476 WBS PROJECT: 2021CPT.01.02.10211.1, ETC.**

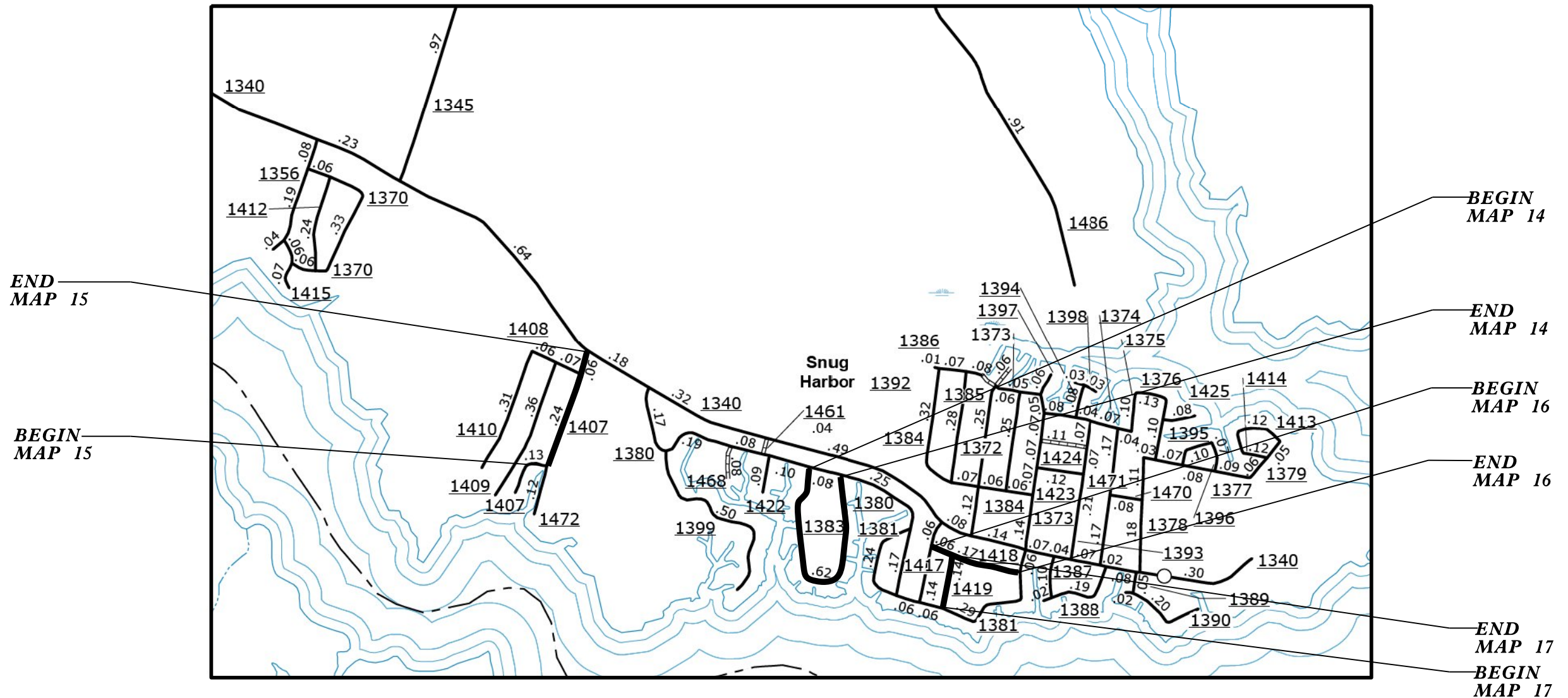
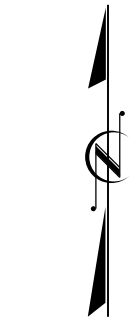
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	2021CPT.01.02.10211.1, ETC.	5
	STATE PROJ. NO.	DESCRIPTION
	2021CPT.01.02.20721.1	PE, CONST.

**PERQUIMANS COUNTY**

**LOCATION:** MAP 14 - SR 1383 (WILLOW ST) FROM SR 1380 (DOGWOOD DR) TO SR 1380 (DOGWOOD DR)  
 MAP 15 - SR 1407 (RIVERVIEW DR) FROM PAVEMENT CHANGE TO SR 1340 (SNUG HARBOR RD)  
 MAP 16 - SR 1418 (MAPLE ST) FROM SR 1417 (JUNIPER ST) TO SR 1381 (POPLAR ST)  
 MAP 17 - SR 1419 (CYPRESS ST) FROM SR 1381 (PINE ST) TO SR 1418 (MAPLE ST)

**TYPE OF WORK:** RESURFACING & SHOULDER RECONSTRUCTION



GRAPHIC SCALES

NTS

PROJECT LENGTH

- LENGTH ROADWAY MAP #14 = 0.62 MILES
- LENGTH ROADWAY MAP #15 = 0.27 MILES
- LENGTH ROADWAY MAP #16 = 0.22 MILES
- LENGTH ROADWAY MAP #17 = 0.13 MILES

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

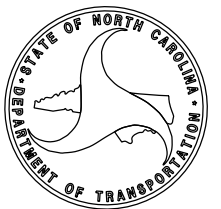
113 AIRPORT DR., EDENTON, NC, 27932

2018 STANDARD SPECIFICATIONS

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

CHRIS SLACHTA  
 DIVISION PROPOSALS ENGINEER

S.P. FENWICK, PLS  
 DESIGN ENGINEER



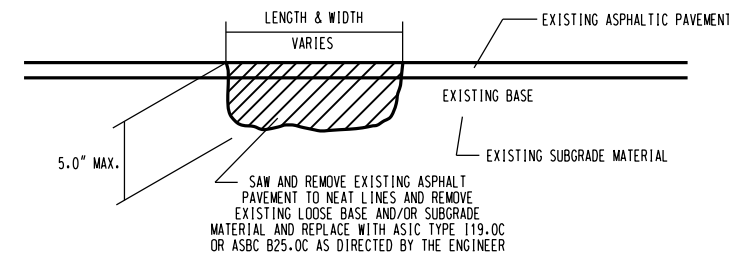
# PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 168 BS. PER SQ. YD.
D1	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.
V1	MILLING ASPHALT PAVEMENT. 1.5" IN DEPTH.
Z1	GENERIC PAVING ITEM (COMPOSITE PAVEMENT INTERLAYER, HIGH STRENGTH).

NOTES:

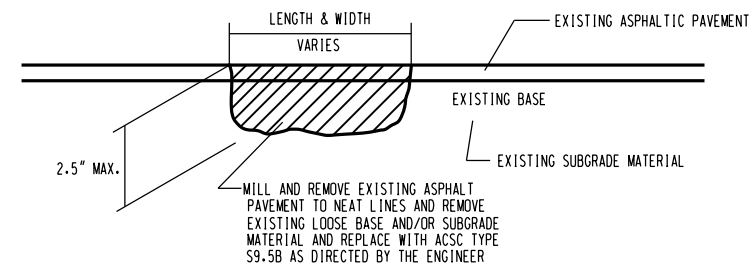
\*ALL PAVED S.R. ROADS OR RAMPS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER

\*EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES



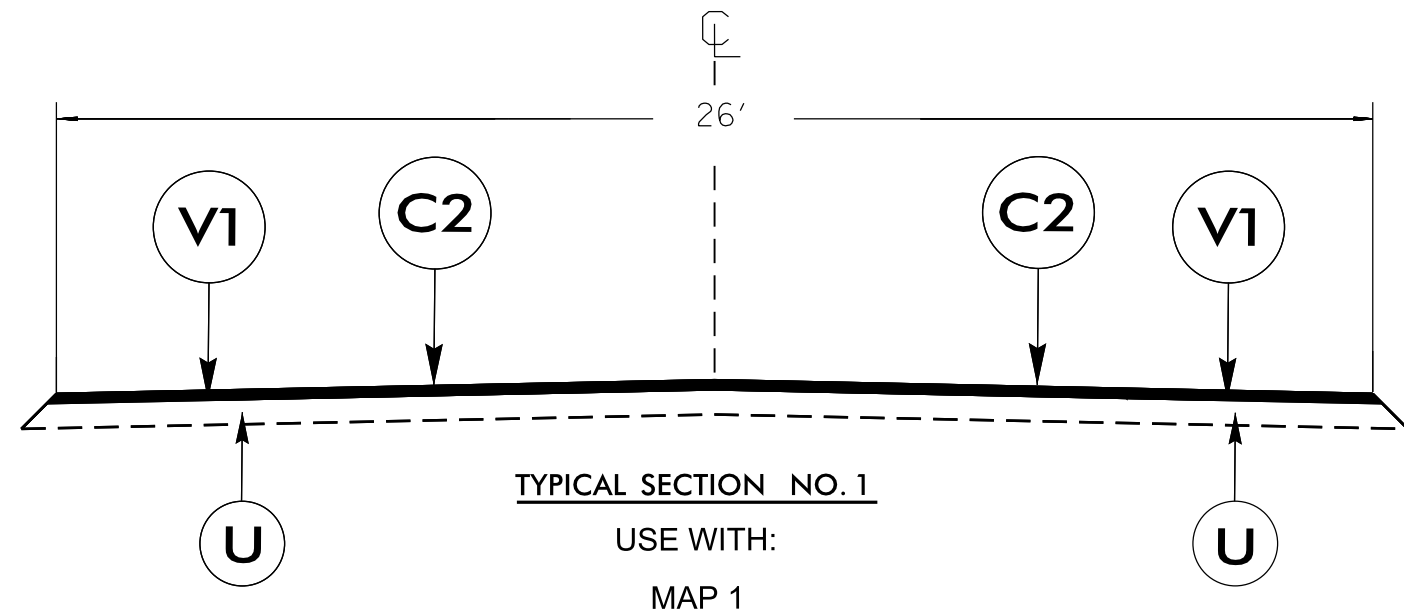
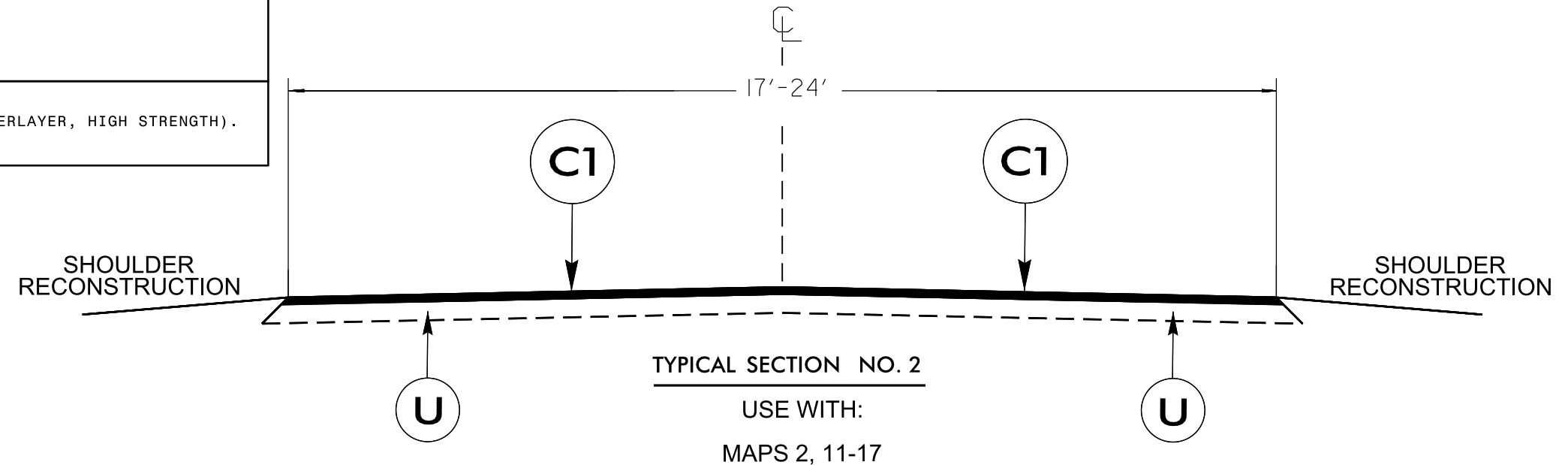
\*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

## FULL DEPTH PATCHING, 0-5"



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

## MILL PATCHING, 0-2.5"



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# PAVEMENT SCHEDULE

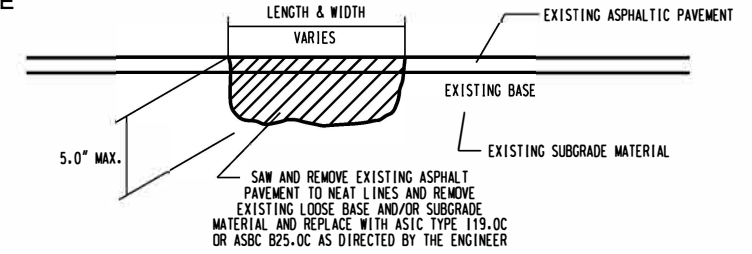
<b>C1</b>	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
<b>C2</b>	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 168 BS. PER SQ. YD.
<b>D1</b>	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
<b>U</b>	EXISTING PAVEMENT.
<b>V1</b>	MILLING ASPHALT PAVEMENT. 1.5" IN DEPTH.
<b>Z1</b>	GENERIC PAVING ITEM (COMPOSITE PAVEMENT INTERLAYER, HIGH STRENGTH).

PROJECT REFERENCE NO. <b>2021CPT.01.02.10211, ETC.</b>	SHEET NO. <b>7</b>
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NOTES:

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

\*EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES



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

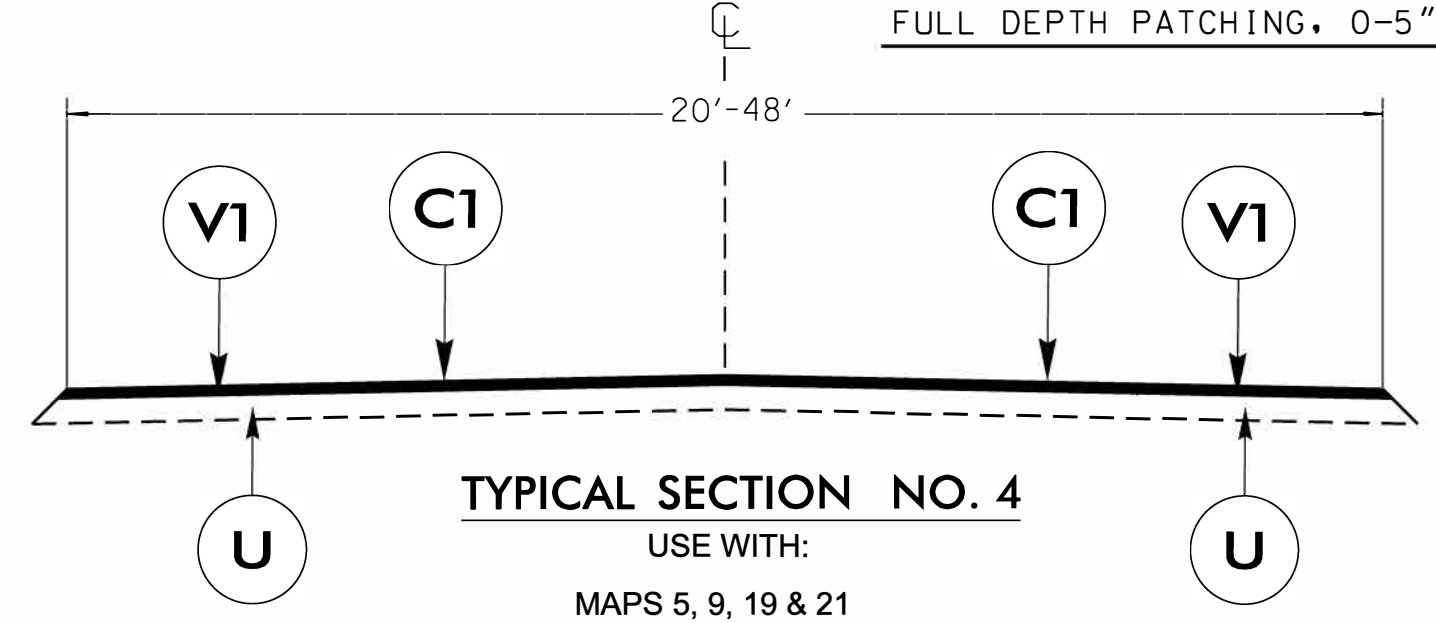
**FULL DEPTH PATCHING, 0-5"**

SCHEDULE "A" (MAP 20)		
BEGIN STATIONING AT CL INTERSECT S. BROAD ST.		
FROM STATION	TO STATION	WIDTH
0+00.00	22+70.00	22'
22+70.00	53+21.00	38'
53+21.00	58+03.00	22'
58+03.00	61+15.00	BRIDGE
61+15.00	96+05.00	40'

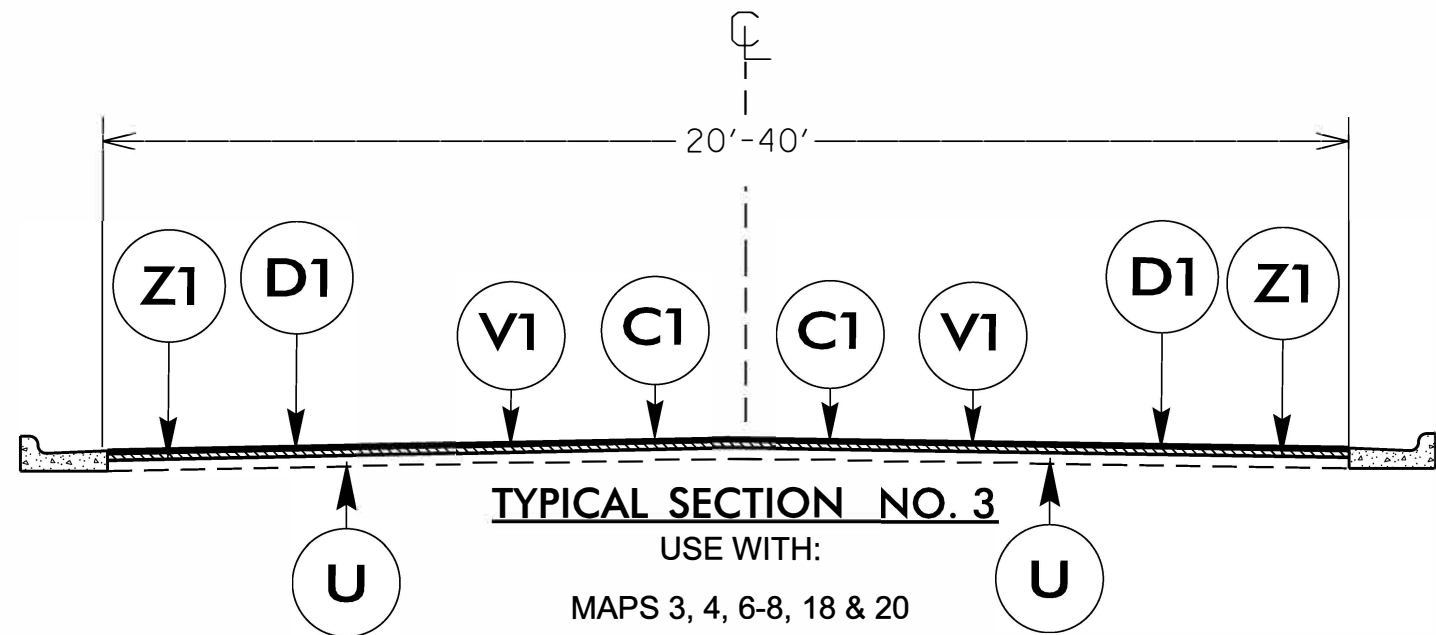
SCHEDULE "B" (MAP 21)		
BEGIN STATIONING AT CL INTERSECT S. BROAD ST.		
FROM STATION	TO STATION	WIDTH
96+05.00	122+00.00	22'
122+00.00	137+59.00	32'
137+59.00	176+85.00	22'
176+85.00	185+62.00	48'

NOTE:

\*USE "D1" (2.5" OF I19.0C) AND GENERIC PAVING ITEM "Z1" (COMPOSITE PAVEMENT INTERLAYER, HIGH STRENGTH) ONLY ON MAP 20, FROM APPROXIMATE STATION 48+03.00 TO STATION 58+03.00 AT BEGIN BRIDGE OR AS DIRECTED BY ENGINEER.



\*SEE SCHEDULE "B" FOR STATIONS AND WIDTHS FOR MAP 21.



\*SEE SCHEDULE "A" FOR STATIONS AND WIDTHS FOR MAP 20.

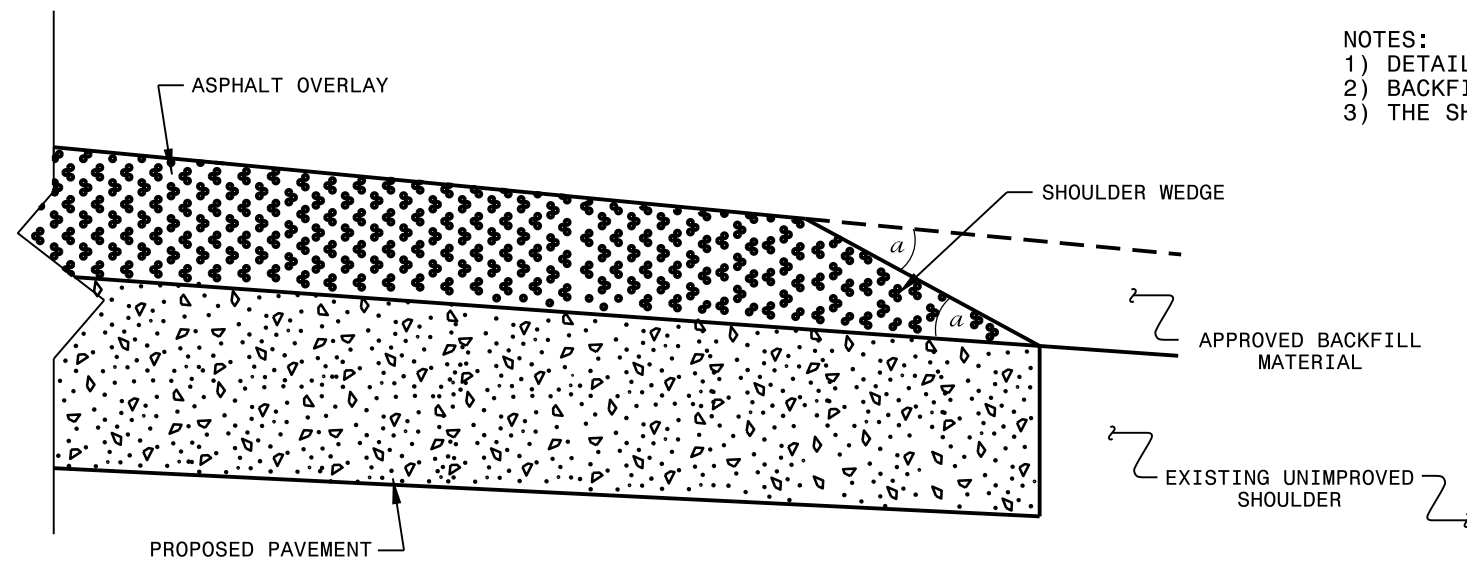
30-OCT-2020 11:20 St. Charles Division One Resurfacing & Retreatment Plans\Scott-2020-2021 Resurfacing\DA00476-Gates US 13 & Secondary\Chowan & Perquimans Secondary\Design Files\DA00476\_D1ddc\_sh6, 7 & 9-12.dgn

**NTS**

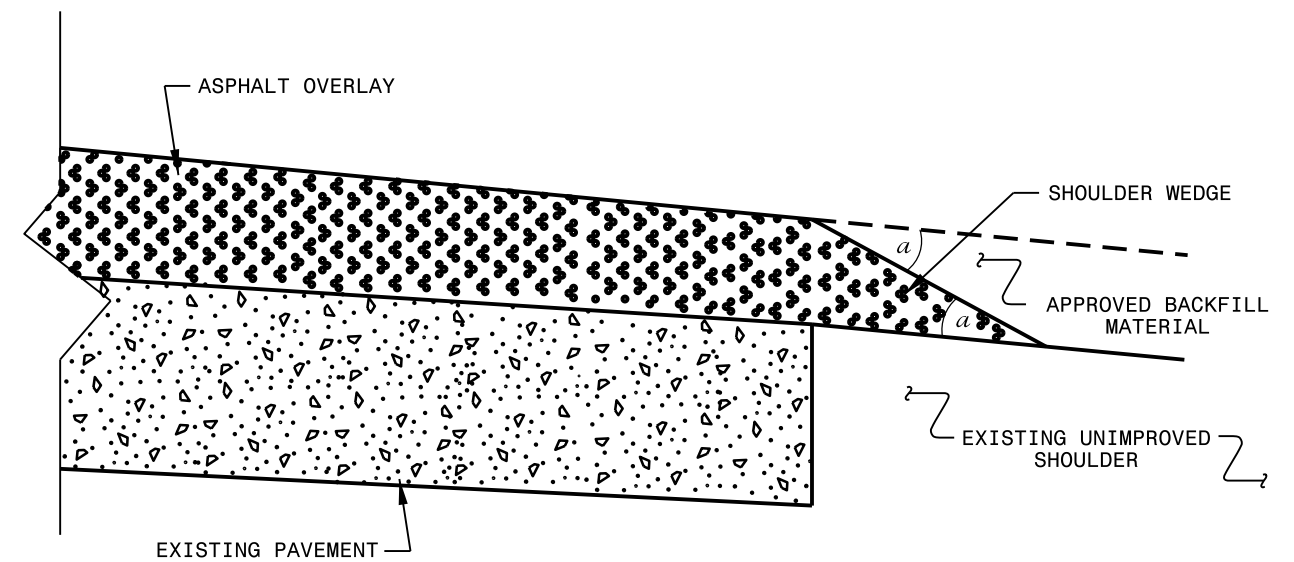




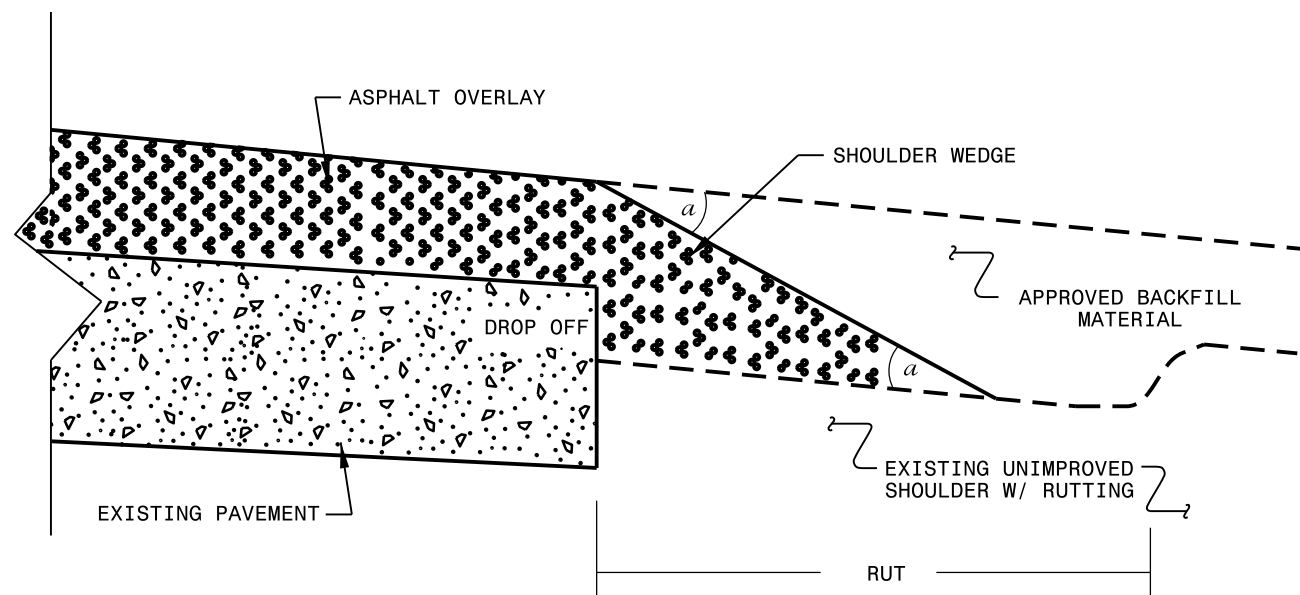
- NOTES:  
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.  
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.  
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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)

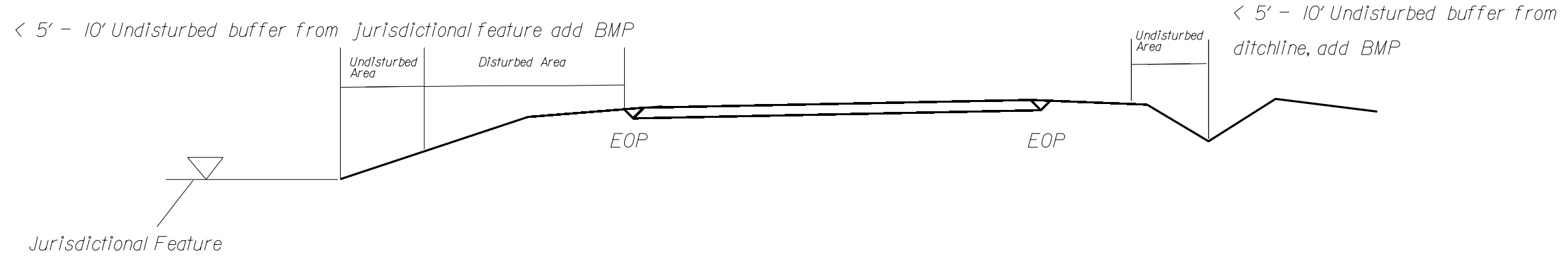
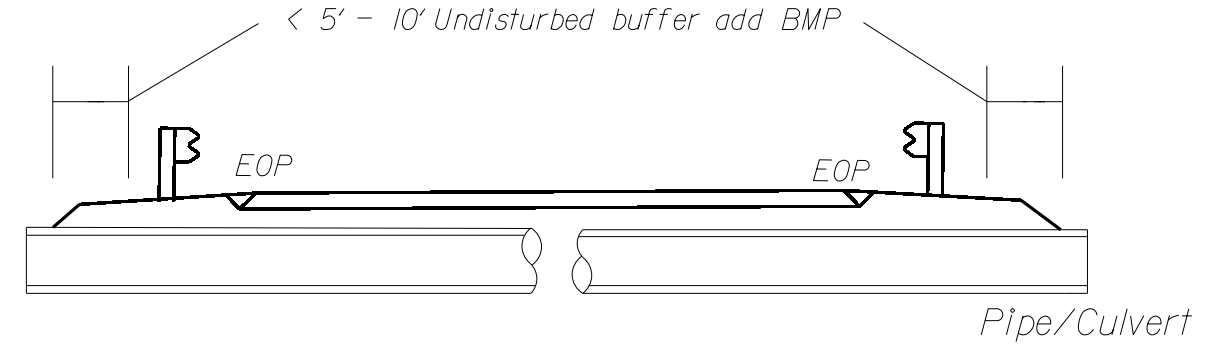
- SHOULDER WEDGE ANGLE = 30°

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>			
Office 919-707-6950		FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>			
ORIGINAL BY:	T.SPELL	DATE:	7-19-11
MODIFIED BY:		DATE:	10/16/12
CHECKED BY:		DATE:	
FILE SPEC.:	s:\usr\details\stand\shoulderwedgedetail.dgn		

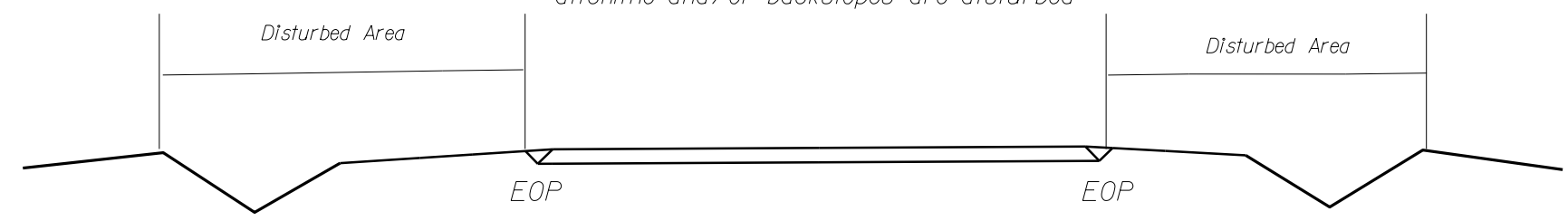
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

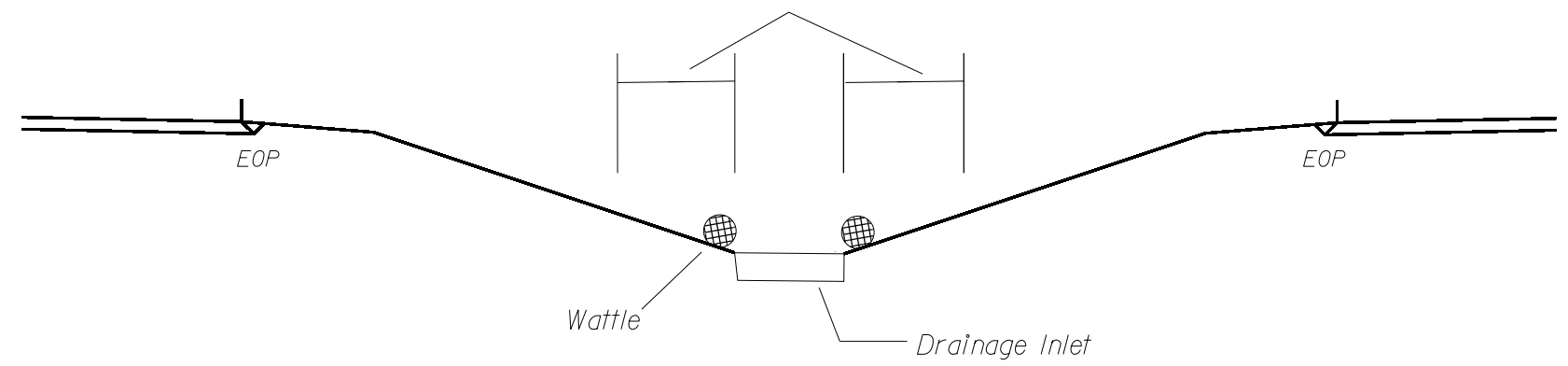
## EROSION CONTROL DETAIL



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed

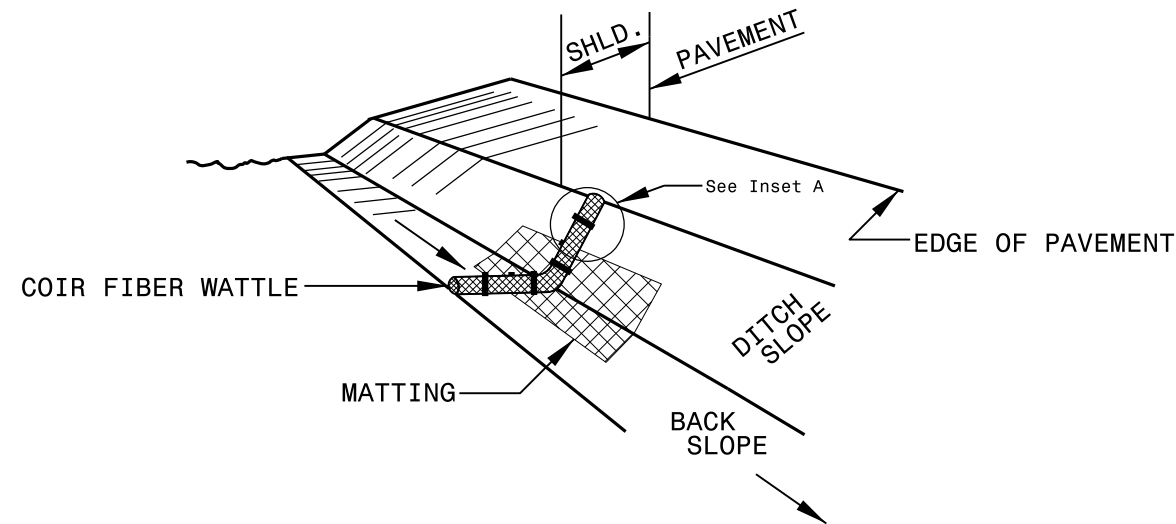


< 5' - 10' Undisturbed buffer from inlet, add wattle

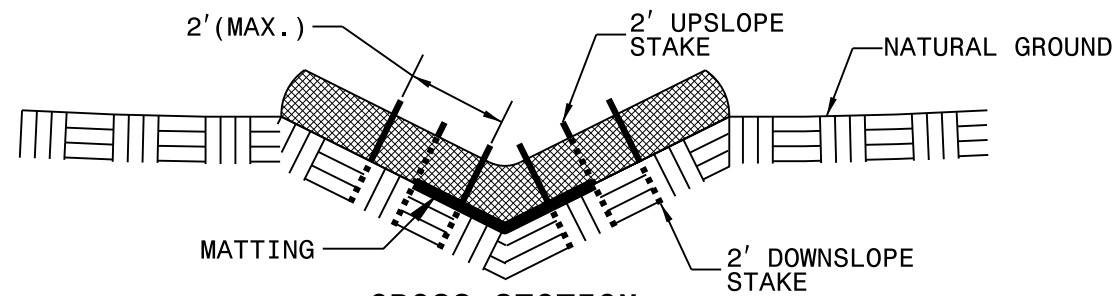


NOT TO SCALE

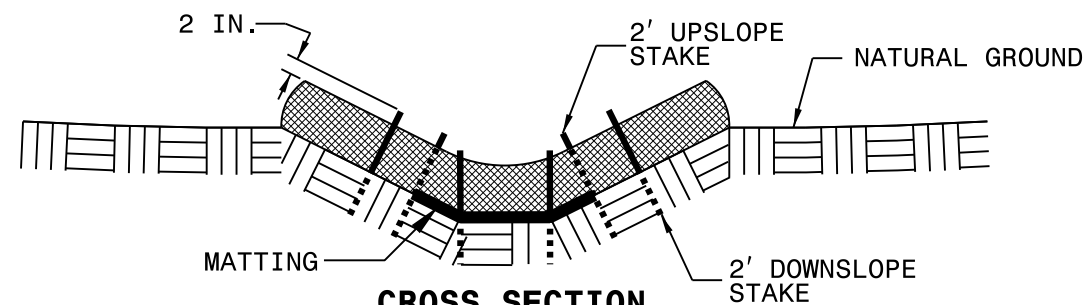
# COIR FIBER WATTLE DETAIL



**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.

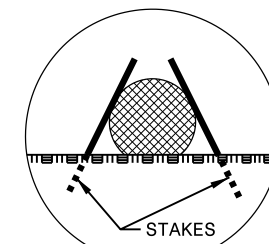
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

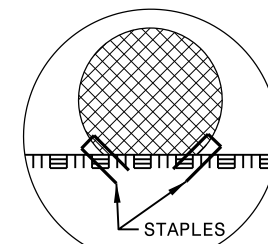
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

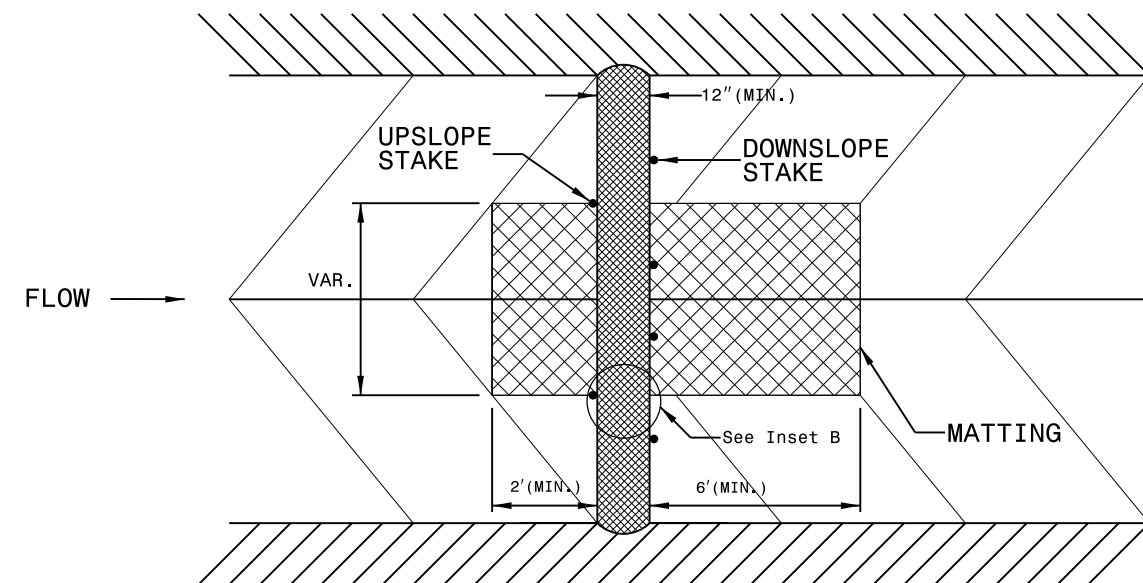
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



**INSET A**



**INSET B**



**TOP VIEW**

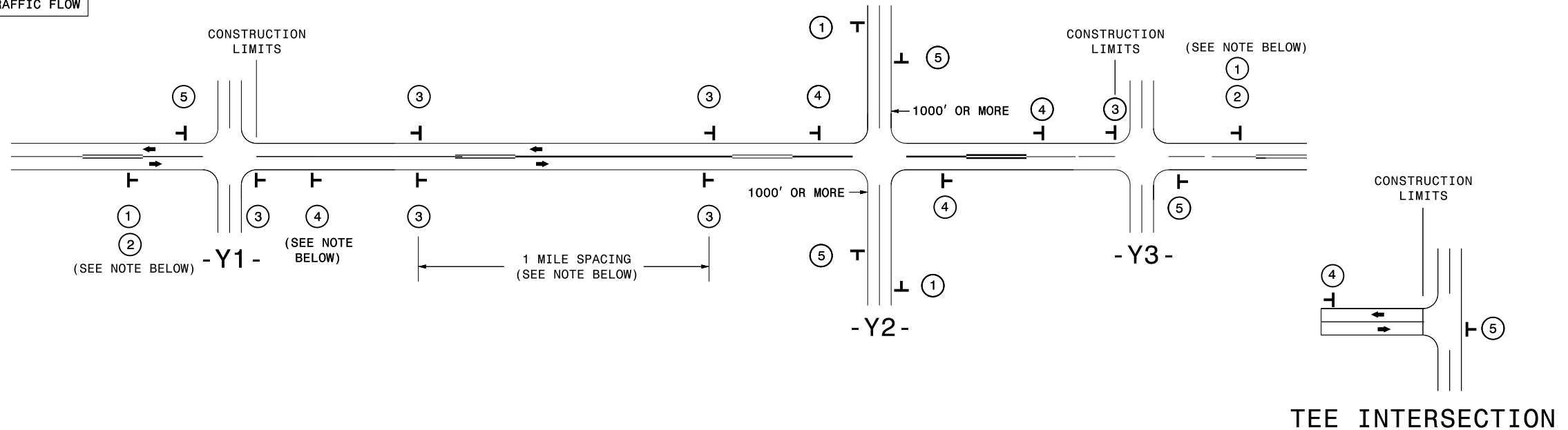
DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

***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**  
 STATIONARY SIGN  
 DIRECTION OF TRAFFIC FLOW



### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

<b>SIGNING NOTES AND PLACEMENT PER DIRECTION</b>	①	 W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	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, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.  <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">                       W20-1                      48" X 48"                 </div> <div style="text-align: center;">                       W20-7 A                      48" X 48"                 </div> </div> PLACED 500' IN ADVANCE OF FLAGGER.
	②	 W7-3aP 24" X 18"	#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	③	 SP 13107 48" X 48"	- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
	④	 SP 48" X 48"		
	⑤	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

**MAPS LESS THAN 2 MILES**

FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.



**ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING**

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