

WBS NO: 2024CPT.01.03.20081, ETC.

CONTRACT: DA00583

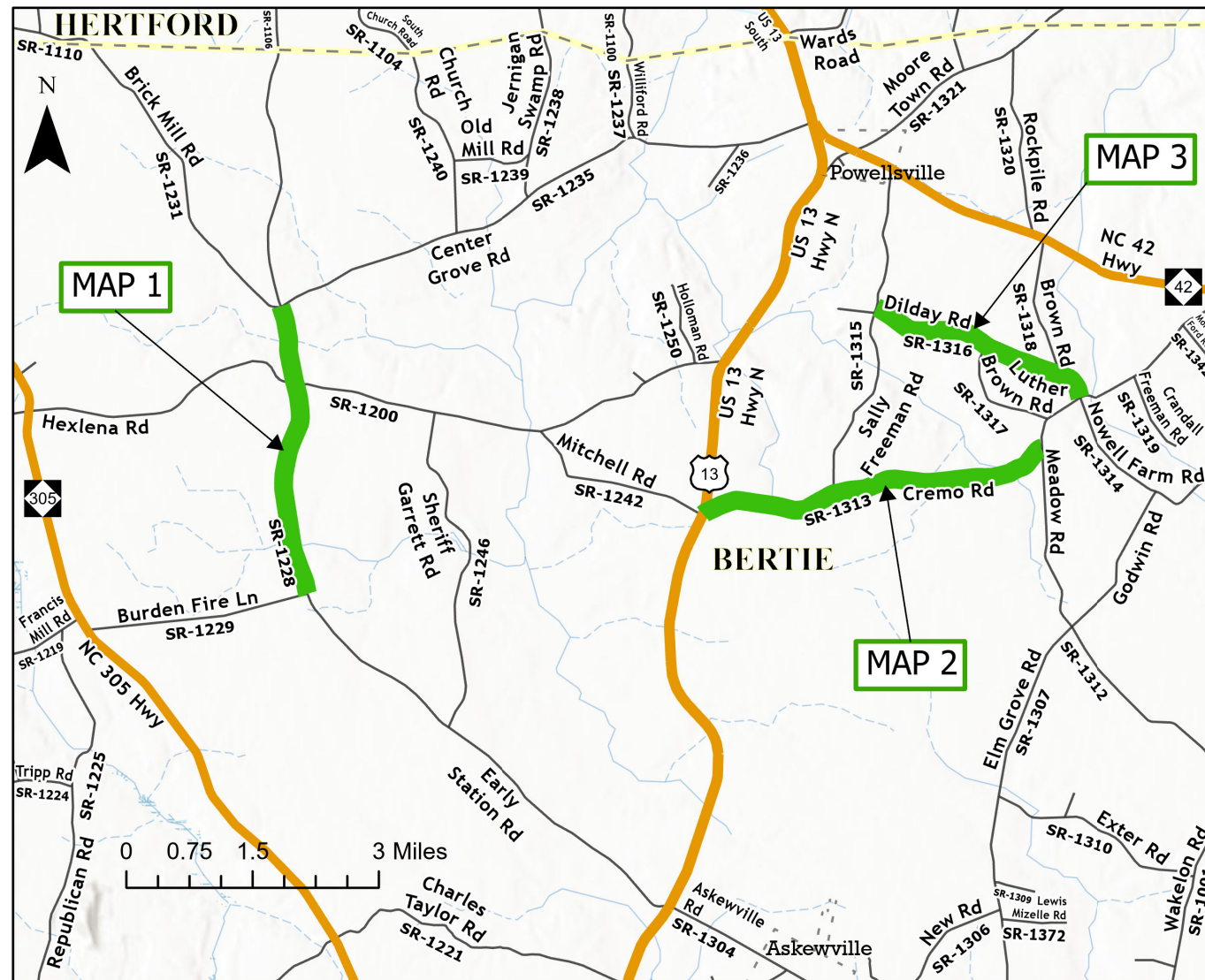
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BERTIE

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2024CPT.01.03.20081, ETC.	1
STATE PROJECT NUMBER		DESCRIPTION
2024CPT.01.03.20081		P.E., CONST.

TYPE OF WORK: RESURFACING, SHOULDER RECONSTRUCTION, & LONG LIFE PAVEMENT MARKINGS

MAP	ROUTE	FROM	TO
01	SR 1228 (Early Station Rd.)	SR 1229 (Burden Fire Ln.)	SR 1235 (Center Grove Rd.)
02	SR 1313 (Cremo Rd.)	US 13	SR 1312 (Meadow Rd.)
03	SR 1316 (Dilday Rd.)	SR 1312 (Meadow Rd.)	SR 1315 (Sally Freeman Rd.)



PROJECT LENGTH

MAP	LENGTH
01	2.83
02	3.44
03	2.23

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

B. N. BRASWELL, PE
DIV. PROJ. DEVELOPMENT ENGINEER

C. E. SLACHTA
DIVISION CONTRACT ENGINEER

J. S. ABEL, JR.
DIVISION PROJECT TEAM LEAD

D. H. STALLINGS
DIVISION DESIGN ENGINEER



WBS NO: 2024CPT.01.03.20081, ETC.

CONTRACT: DA00583

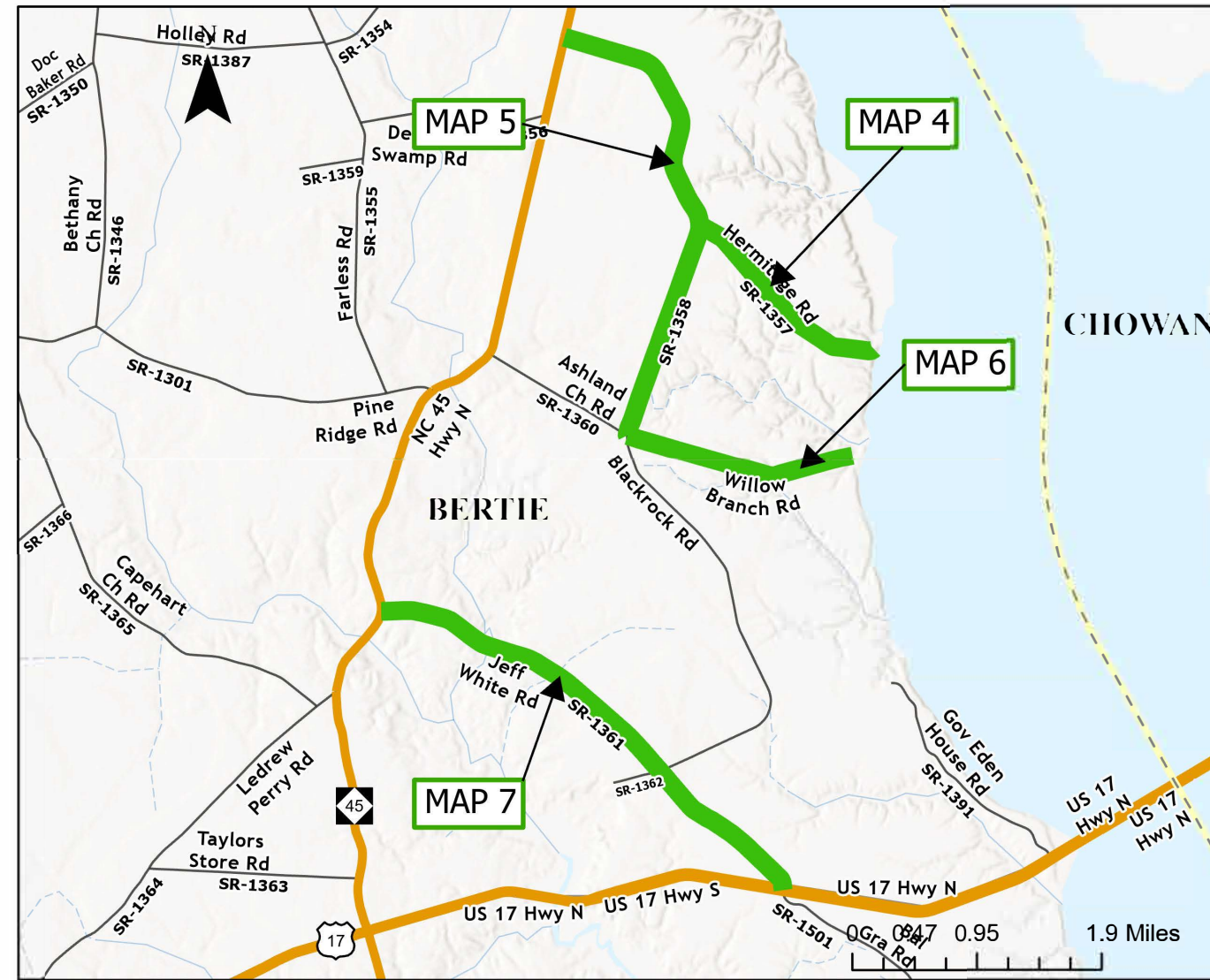
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BERTIE

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2024CPT.01.03.20081, ETC.	2
STATE PROJECT NUMBER		DESCRIPTION
2024CPT.01.03.20081		P.E., CONST.

TYPE OF WORK: MILLING, RESURFACING, SHOULDER RECONSTRUCTION, & LONG LIFE PAVEMENT MARKINGS

MAP	ROUTE	FROM	TO
04	SR 1357 (Hermitage Rd.)	SR 1358 (Blackrock Rd.)	End Maint
05	SR 1358 (Blackrock Rd)	SR 1360 (Ashland Church Rd)	NC 45
06	SR 1360 (Willow Branch Rd.)	SR 1358	End Maint
07	SR 1361 (Jeff White Rd.)	NC 45	US 17



PROJECT LENGTH

MAP	LENGTH
04	1.38
05	3.00
06	1.44
07	3.12

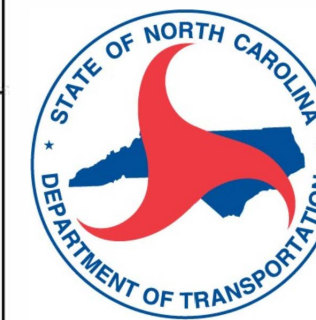
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DIVISION OF HIGHWAYS
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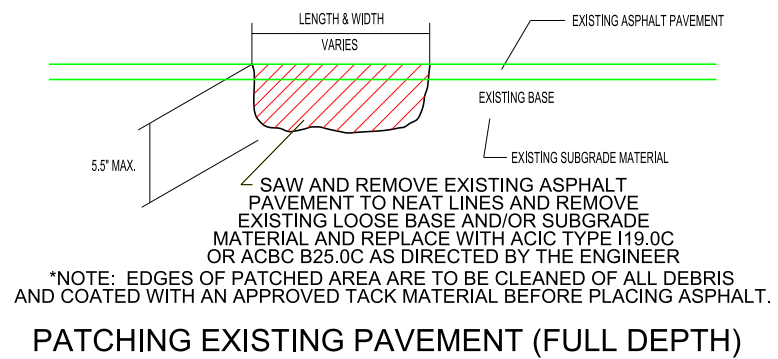
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
T	EARTH MATERIAL
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
2024CPT.01.03.20081	3

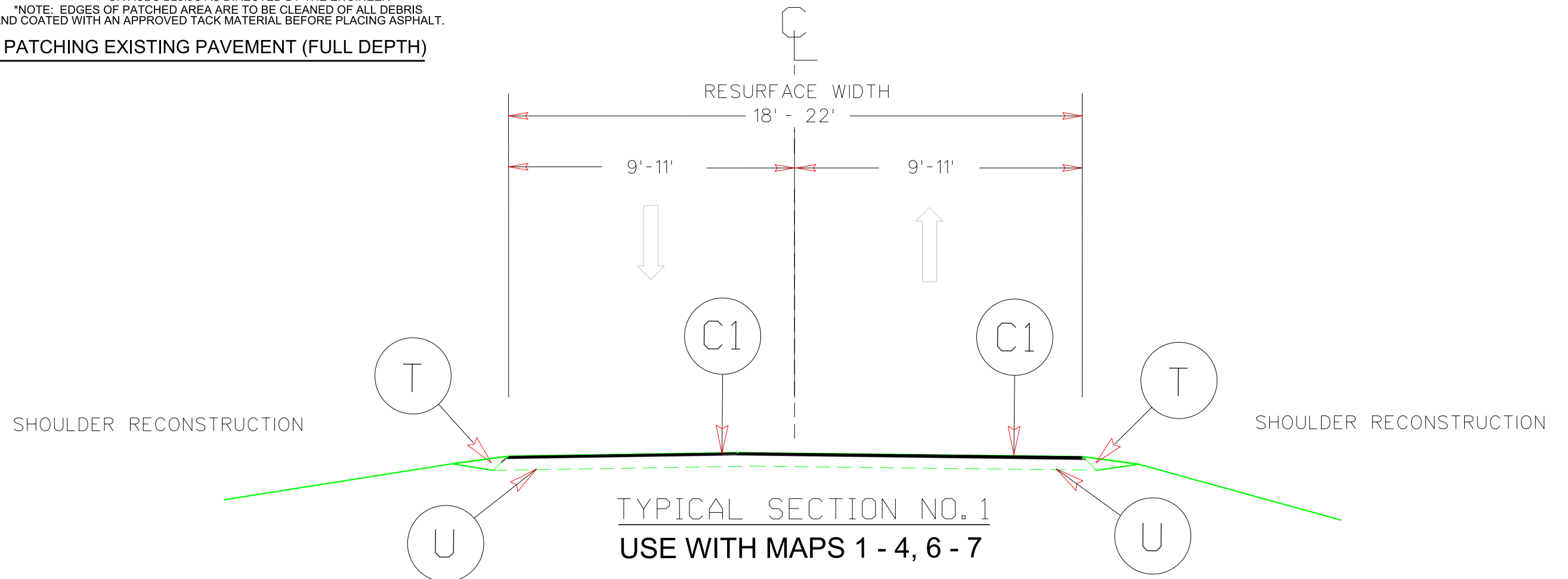
NOTES:

- * ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
- * EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
- * 1.5" OF S9.5B TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
- * CONTRACTOR SHALL PERFORM PATCHING EXISTING PAVEMENT, FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5B



*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 (FULL DEPTH)



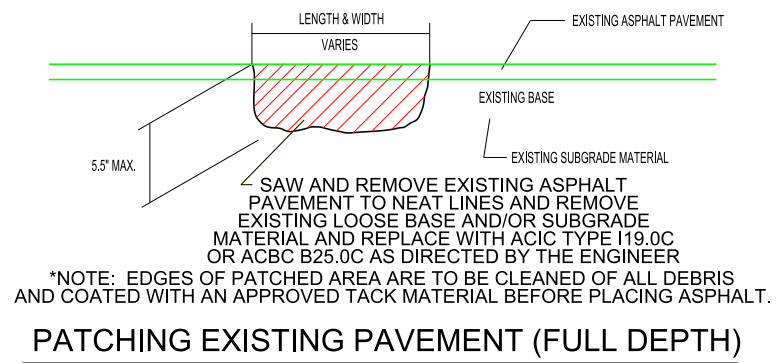
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
V2	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
T	EARTH MATERIAL
U	EXISTING PAVEMENT

PROJECT REFERENCE NO.	SHEET NO.
2024CPT.01.03.20081	4

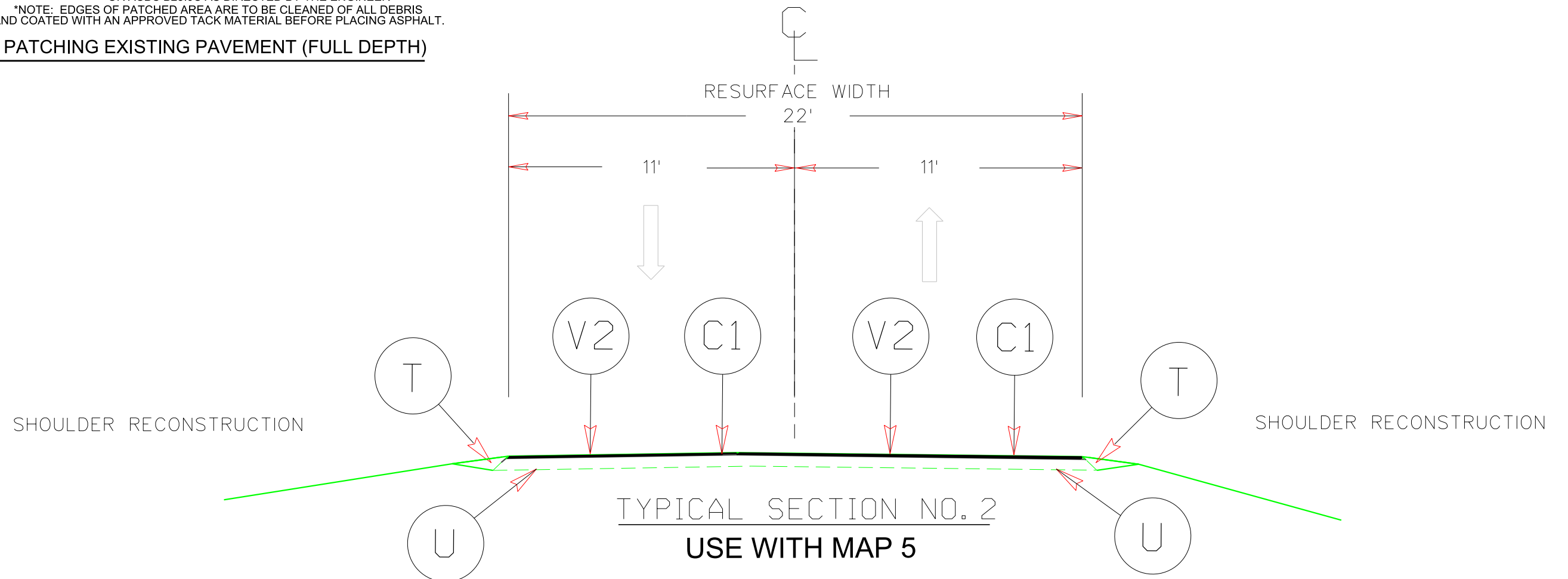
NOTES:

- * ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
- * EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
- * 1.5" OF S9.5B TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
- * CONTRACTOR SHALL PERFORM PATCHING EXISTING PAVEMENT, FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5B

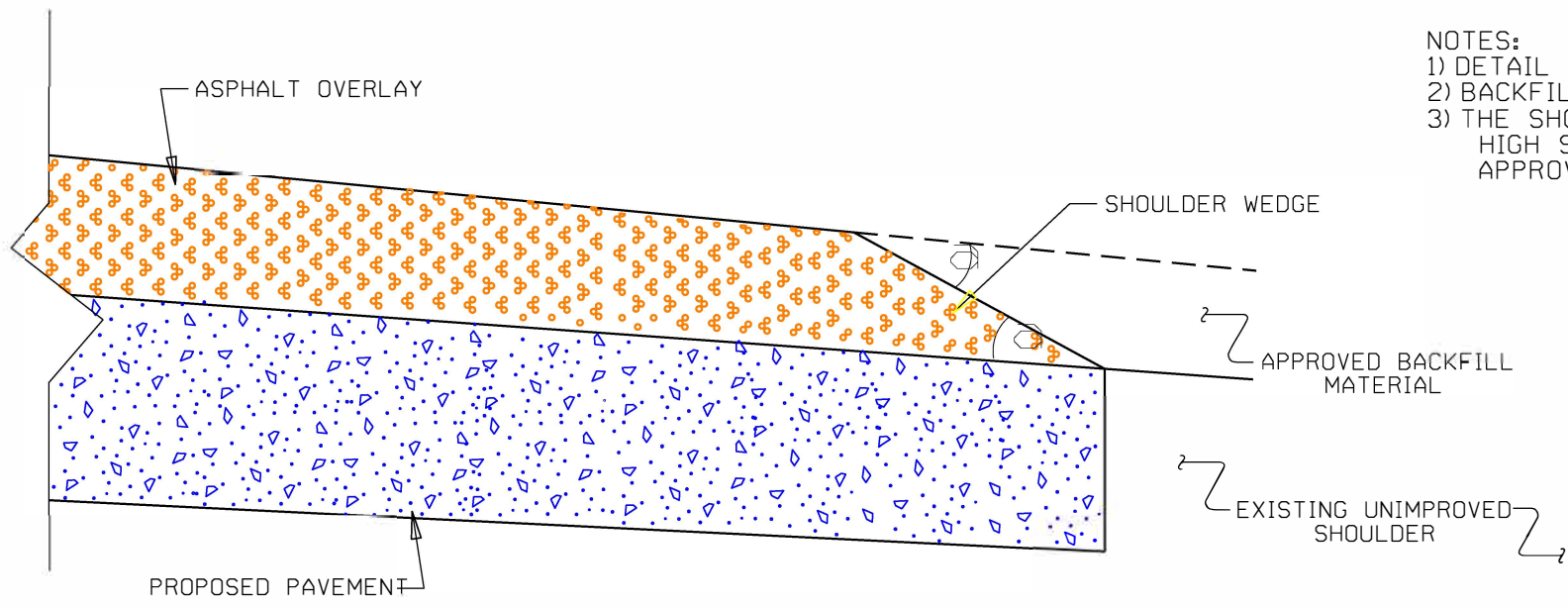


*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

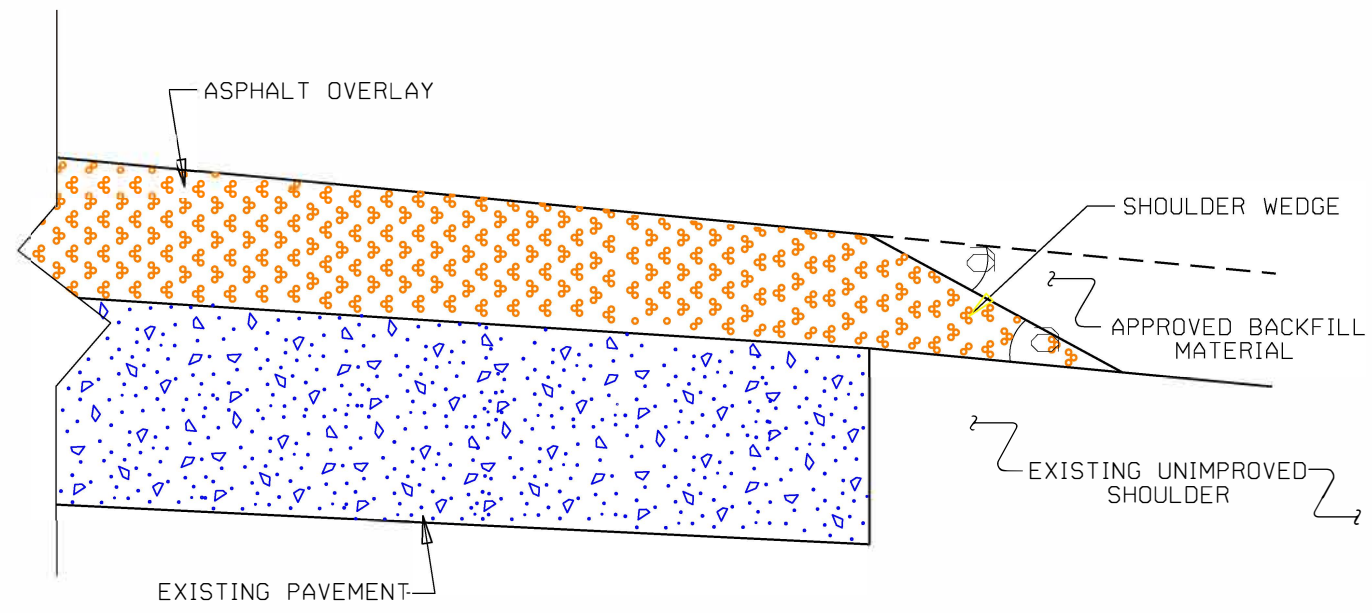
PATCHING EXISTING PAVEMENT (FULL DEPTH)



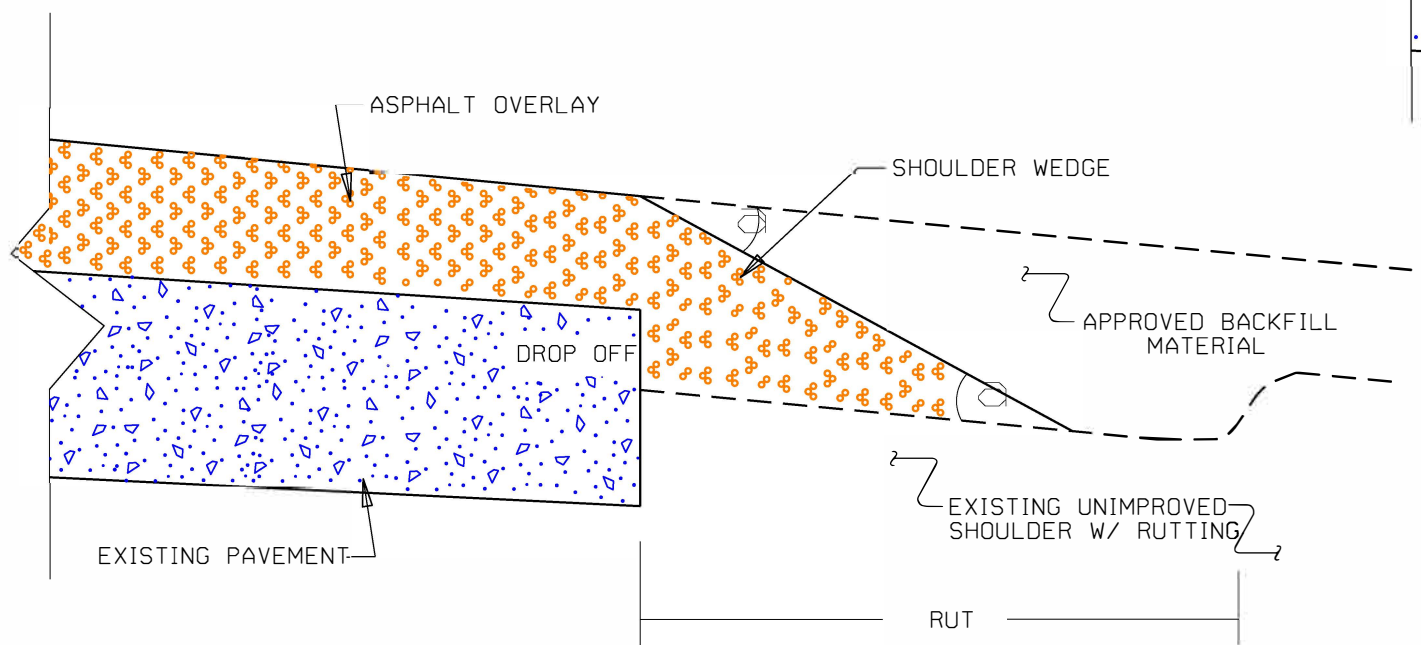
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFCC AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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: 2/2/16
CHECKED BY:	DATE:
FILE SPEC.: ssur/details/stand/shoulder-wedge-detail.dgn	

PROJECT NO.	SHEET NO.	TOTAL NO.
2024CPT.01.03.20081	6	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0000100000-N	0106000000-E	1220000000-E	1245000000-E	1297000000-E	1330000000-E	1519000000-E	
												MI	FT	LS	CY	TONS	SMI	SY	SY
2024CPT.01.03.20081	Bertie	1	SR-1228 / EARLY STATION ROAD	FROM SR 1229 (BURDEN FIRE LANE) (MP 4.676) TO SR 1235 (CENTER GROVE ROAD) (MP 7.51)	1	2	2WU	NO	NO	2.83	21	1	85	45	5.67		3,559	3,526	
2024CPT.01.03.20081	Bertie	2	SR-1313 / CREMO ROAD	FROM US 13 (MP 0.0) TO SR 1312 (MEADOW ROAD) (MP 3.442)	1	2	2WU	NO	NO	3.44	21	*	30	25	6.88			3,889	
2024CPT.01.03.20081	Bertie	3	SR-1316 / DILDAY RD	FROM SR 1312 (MEADOW ROAD) (MP 0.0) TO SR 1315 (SALLY FREEMAN ROAD) (MP 2.23)	1	2	2WU	NO	NO	2.23	20	*	67	214	4.46			2,471	
2024CPT.01.03.20081	Bertie	4	SR-1357 / HERMITAGE RD	FROM SR 1358 (BLACKROCK ROAD) (MP 0.0) TO END MAINT. (MP 1.38)	1	2	2WU	NO	NO	1.38	18	*	41	90	2.76			1,498	
2024CPT.01.03.20081	Bertie	5	SR-1358 / BLACKROCK RD	FROM SR 1360 (ASHALAND CHURCH ROAD) (MP 2.74) TO NC 45 (MP 5.75)	1	2	2WU	NO	NO	3.01	22	*		90		38,849	1,690	3,719	
2024CPT.01.03.20081	Bertie	6	SR-1360 / WILLOW BRANCH RD	FROM SR 1358 (BLACKROCK ROAD) (MP 0.991) TO END MAINT. (MP 2.43)	1	2	2WD	NO	NO	1.44	22	*	43	30	2.88			1,408	
2024CPT.01.03.20081	Bertie	7	SR-1361 / JEFF WHITE RD	FROM NC 45 (MP 0.0) TO US 17 (MP 3.123)	1	2	2WD	NO	NO	3.12	22	*	94	102	6.25		3,262	3,986	
TOTAL FOR PROJ NO. 2024CPT.01.03.20081																			
GRAND TOTAL																			
											17.46		1	360	596	28.90	38,849	8,511	20,497
											17.46		1	360	596	28.90	38,849	8,511	20,497

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1575000000-E	1705000000-E	6000000000-E	6071012000-E	6084000000-E	6117000000-N	
												MI	FT	TONS	TON	LF	LF	ACR
2024CPT.01.03.20081	Bertie	1	SR-1228 / EARLY STATION ROAD	FROM SR 1229 (BURDEN FIRE LANE) (MP 4.676) TO SR 1235 (CENTER GROVE ROAD) (MP 7.51)	1	2	2WU	NO	NO	2.83	21	237	154	100	50	2.8	1	
2024CPT.01.03.20081	Bertie	2	SR-1313 / CREMO ROAD	FROM US 13 (MP 0.0) TO SR 1312 (MEADOW ROAD) (MP 3.442)	1	2	2WU	NO	NO	3.44	21	255	50	50	25	3.4		
2024CPT.01.03.20081	Bertie	3	SR-1316 / DILDAY RD	FROM SR 1312 (MEADOW ROAD) (MP 0.0) TO SR 1315 (SALLY FREEMAN ROAD) (MP 2.23)	1	2	2WU	NO	NO	2.23	20	161	10	60	35	2.2		
2024CPT.01.03.20081	Bertie	4	SR-1357 / HERMITAGE RD	FROM SR 1358 (BLACKROCK ROAD) (MP 0.0) TO END MAINT. (MP 1.38)	1	2	2WU	NO	NO	1.38	18	98	6	50	25	1.4		
2024CPT.01.03.20081	Bertie	5	SR-1358 / BLACKROCK RD	FROM SR 1360 (ASHALAND CHURCH ROAD) (MP 2.74) TO NC 45 (MP 5.75)	1	2	2WU	NO	NO	3.01	22	274	680	75	40	3.0		
2024CPT.01.03.20081	Bertie	6	SR-1360 / WILLOW BRANCH RD	FROM SR 1358 (BLACKROCK ROAD) (MP 0.991) TO END MAINT. (MP 2.43)	1	2	2WD	NO	NO	1.44	22	92	6	50	25	1.4		
2024CPT.01.03.20081	Bertie	7	SR-1361 / JEFF WHITE RD	FROM NC 45 (MP 0.0) TO US 17 (MP 3.123)	1	2	2WD	NO	NO	3.12	22	263	74	75	40	3.1		
TOTAL FOR PROJ NO. 2024CPT.01.03.20081																		
GRAND TOTAL																		
											17.46		1,380	980	460	240	17.3	1
											17.46		1,380	980	460	240	17.3	1

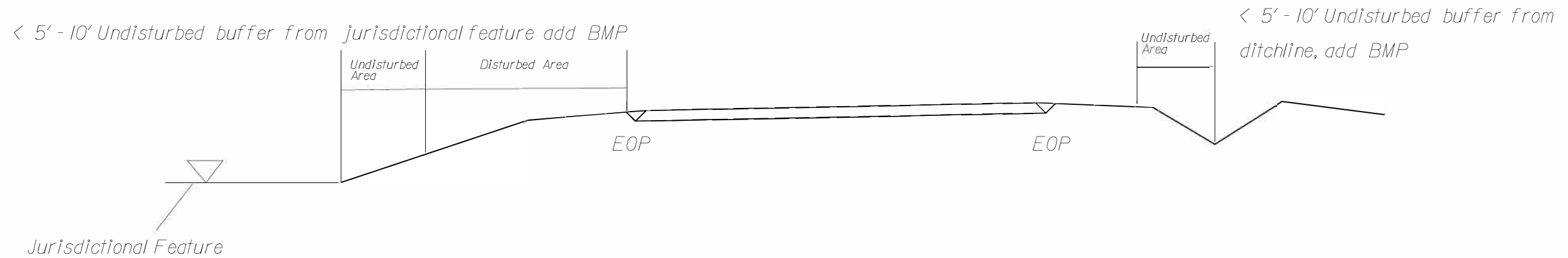
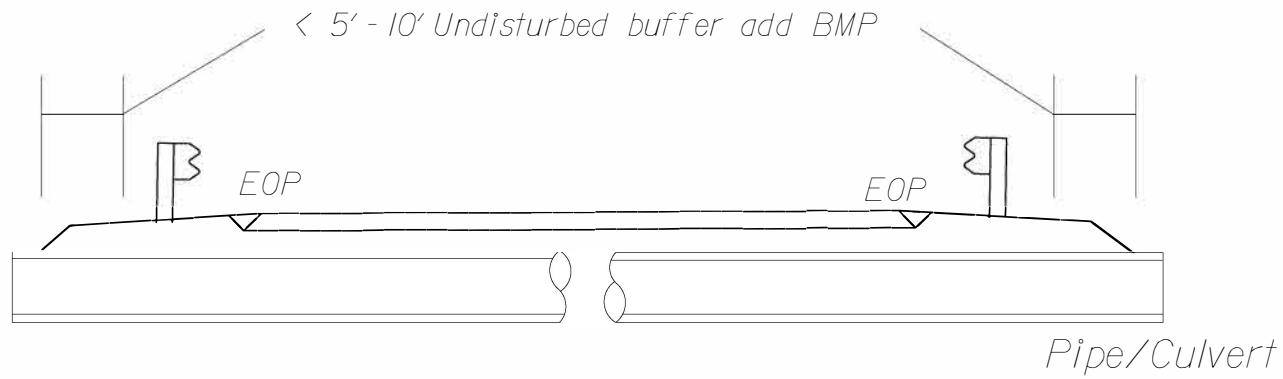
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	4413000000-E	4457000000-N	4709000000-E	4810000000-E			4890000000-E		
												MI	FT	SF	LS	LF	LF	LF	LF	LF
2024CPT.01.03.20081	Bertie	1	SR-1228 / EARLY STATION ROAD	FROM SR 1229 (BURDEN FIRE LANE) (MP 4.676) TO SR 1235 (CENTER GROVE ROAD) (MP 7.51)	1	2	2WU	NO	NO	2.83	21	334	1	35	30,527	18,889	35	30,527	18,889	
2024CPT.01.03.20081	Bertie	2	SR-1313 / CREMO ROAD	FROM US 13 (MP 0.0) TO SR 1312 (MEADOW ROAD) (MP 3.442)	1	2	2WU	NO	NO	3.44	21	236	*		36,468	22,747		36,468	22,747	
2024CPT.01.03.20081	Bertie	3	SR-1316 / DILDAY RD	FROM SR 1312 (MEADOW ROAD) (MP 0.0) TO SR 1315 (SALLY FREEMAN ROAD) (MP 2.23)	1	2	2WU	NO	NO	2.23	20	316	*		23,936	14,788		23,936	14,788	
2024CPT.01.03.20081	Bertie	4	SR-1357 / HERMITAGE RD	FROM SR 1358 (BLACKROCK ROAD) (MP 0.0) TO END MAINT. (MP 1.38)	1	2	2WU	NO	NO	1.38	18		*		14,573	9,108		14,573	9,108	
2024CPT.01.03.20081	Bertie	5	SR-1358 / BLACKROCK RD	FROM SR 1360 (ASHALAND CHURCH ROAD) (MP 2.74) TO NC 45 (MP 5.75)	1	2	2WU	NO	NO	3.01	22	214	*		32,460	20,061		32,460	20,061	
2024CPT.01.03.20081	Bertie	6	SR-1360 / WILLOW BRANCH RD	FROM SR 1358 (BLACKROCK ROAD) (MP 0.991) TO END MAINT. (MP 2.43)	1	2	2WD	NO	NO	1.44	22		*		15,196	9,497		15,196	9,497	
2024CPT.01.03.20081	Bertie	7	SR-1361 / JEFF WHITE RD	FROM NC 45 (MP 0.0) TO US 17 (MP 3.123)	1	2	2WD	NO	NO	3.12	22	308	*		33,159	20,668		33,159	20,668	
TOTAL FOR PROJ NO. 2024CPT.01.03.20081																				
GRAND TOTAL																				
											17.46		1,408	1	35	186,319	115,758	35	186,319	115,758
											17.46		1,408	1	35	186,319	115,758	35	186,319	115,758

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

BMP Options: Wattle or Silt Fence

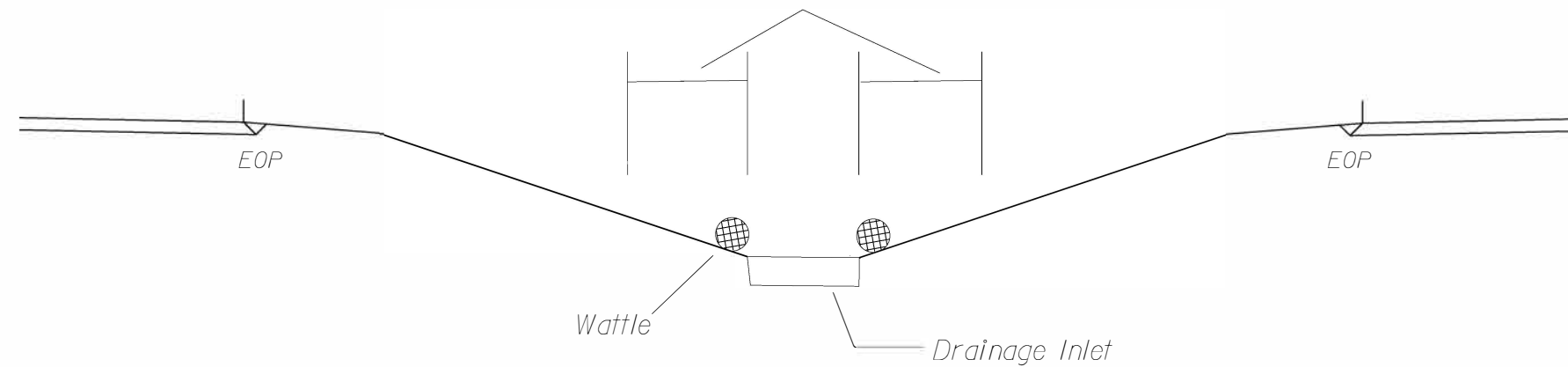
EROSION CONTROL DETAIL



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

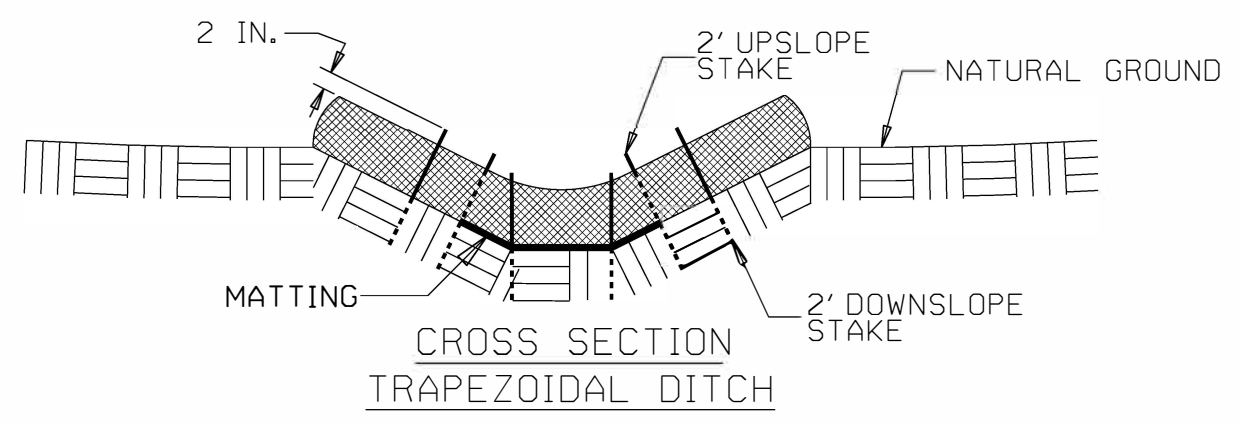
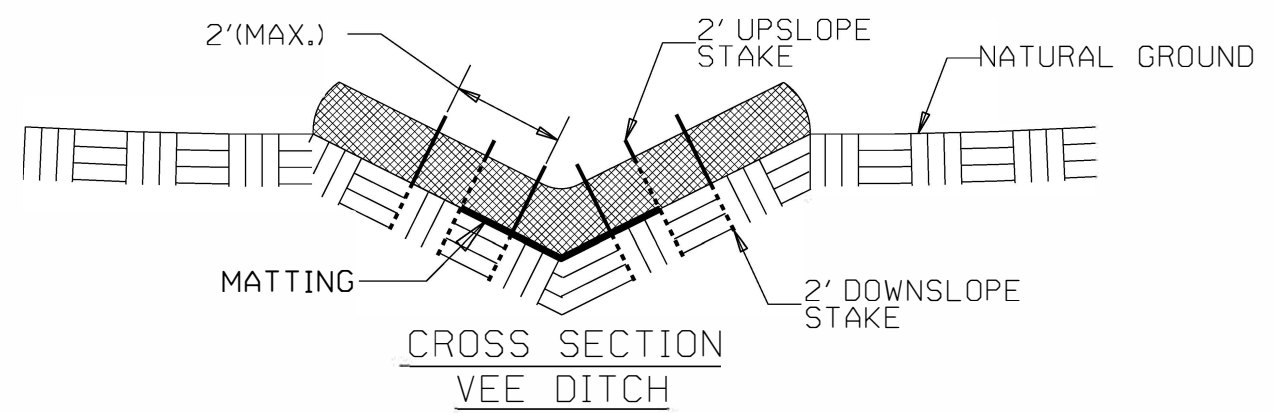
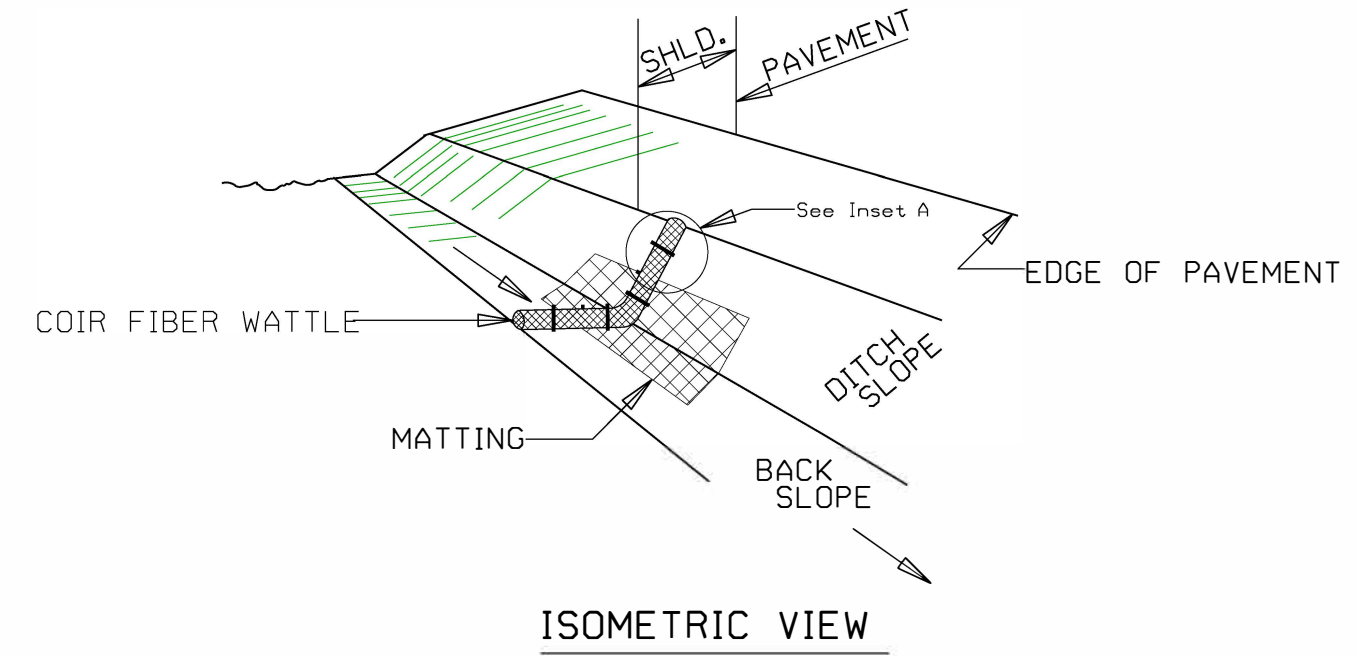


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

COIR FIBER WATTLE DETAIL



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.

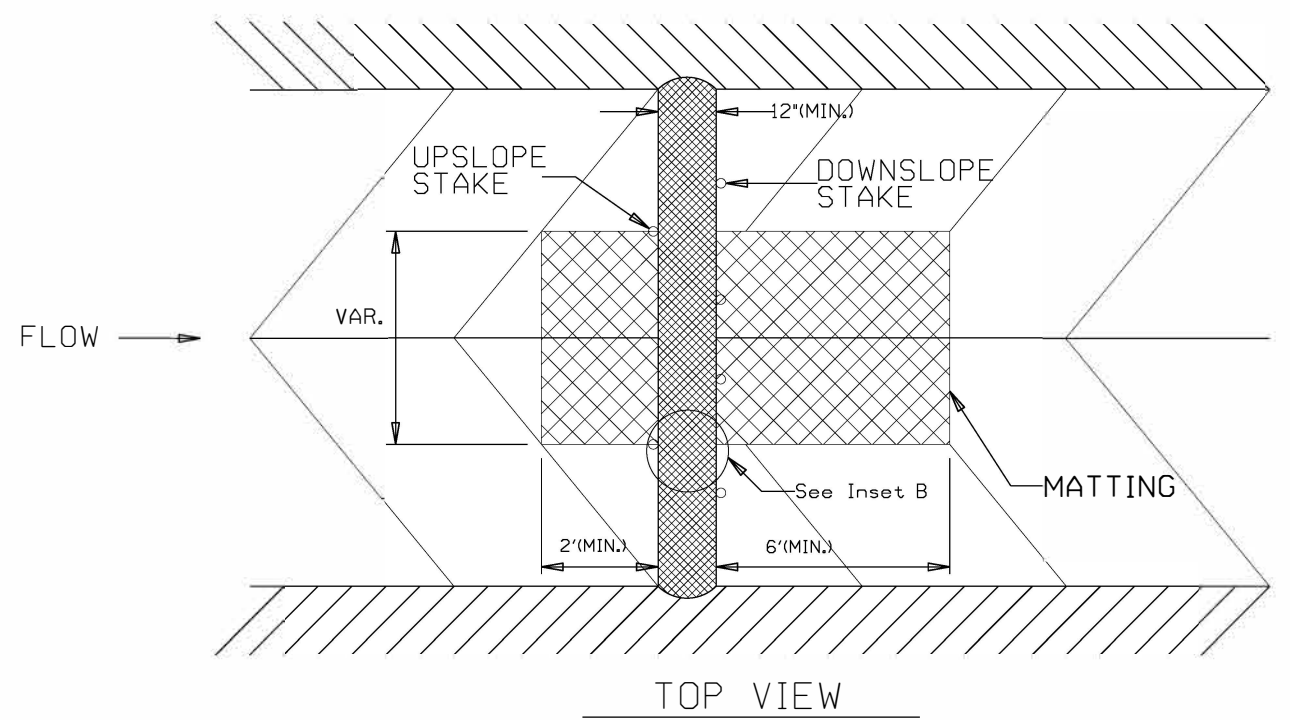
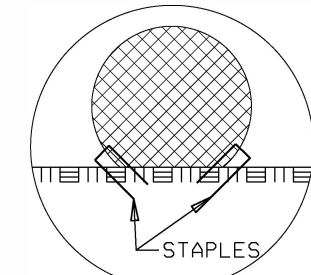
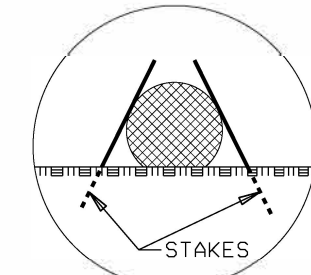
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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 Ø.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.



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

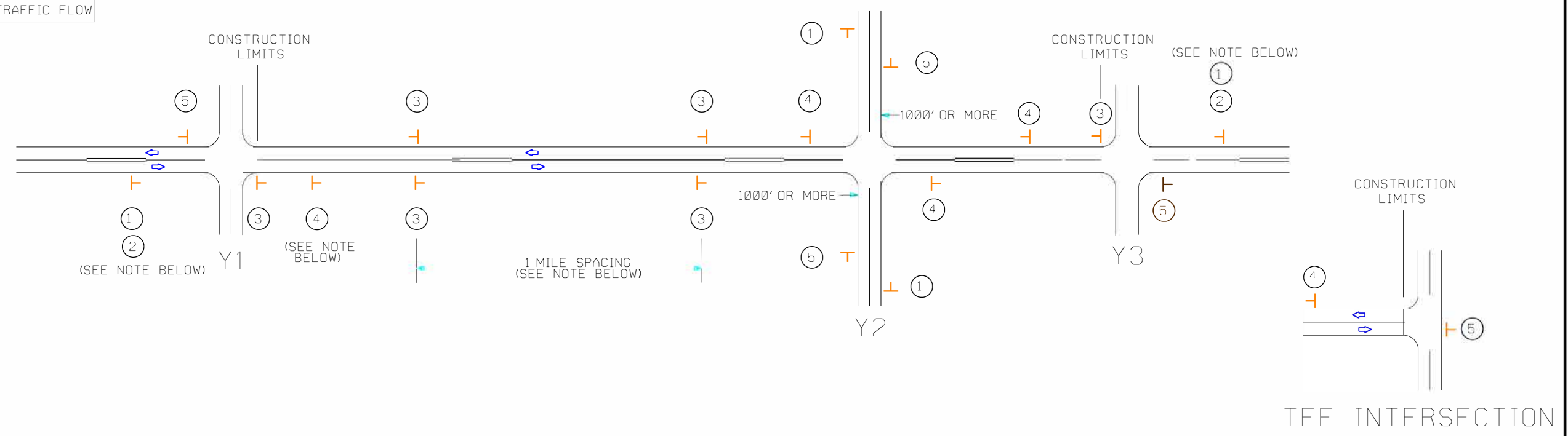
SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	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 HQW ZONES.

SIGNING FOR RESURFACING PROJECTS

LEGEND

— STATIONARY SIGN

⇄ DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

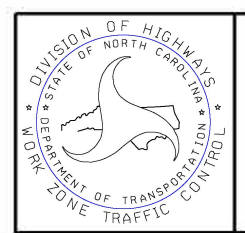
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	①		PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>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.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;"> <small>W20-7 A 48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER.</p>
	②		#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	③	 	<p>- ALTERNATE THE FOLLOWING TWO SIGNS:</p> <p>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.</p> <p>- AT TEE INTERSECTIONS INSTALL INITIALLY 5/64 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</p>	
	④		<p>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS.</p> <p>- DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</p> <p>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</p> <p>- 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.</p> <p>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</p> <p>- FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.</p>	
	⑤		PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

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

\$\$\$SYTIME\$\$\$\$\$
 \$\$\$SUBSERIALNO\$\$\$\$\$
 \$\$\$SUBSERIALNO\$\$\$\$\$