

09/08/19

CONTRACT: DA00510 WBS ELEMENT: 2022CPT.01.07.20661.1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	2022CPT.01.07.20661.1	2
STATE PROJ. NO.		DESCRIPTION
2022CPT.01.07.20661.1		PE, CONST

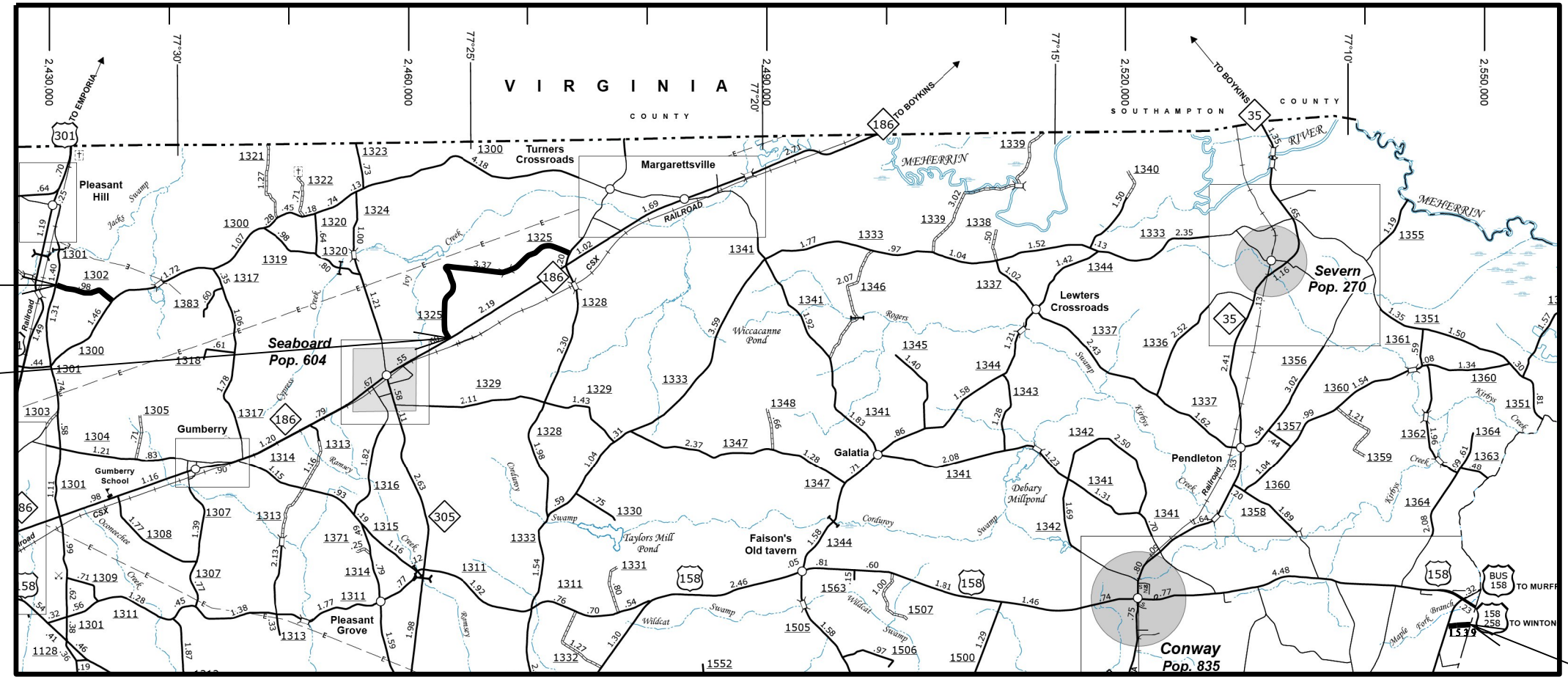


NORTHAMPTON COUNTY

LOCATION: MAP 2 - SR 1302 (HICKORY TREE RD.) FROM SR 1301 TO SR 1300
MAP 3 - SR 1325 (JORDAN MILL RD.) FROM NC 186 TO SR 1328
MAP 9 - SR 1539 (MILLIAM PARKER RD.) FROM HERTFORD COUNTY LINE TO US 258

TYPE OF WORK: AST (SINGLE SEAL), RESURFACING & SHOULDER RECONSTRUCTION

MAP 2
MAP 3



MAP 9

GRAPHIC SCALES

NTS

PROJECT LENGTH

MAP 2 = 0.95 MILES
MAP 3 = 3.32 MILES
MAP 9 = 0.33 MILES

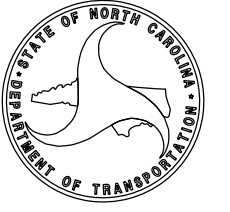
Prepared in the Office of:
DIVISION OF HIGHWAYS
113 Airport Dr., Edenton NC, 27932

2018 STANDARD SPECIFICATIONS

W. B. HOBBS, PE
DIVISION PROJECT TEAM LEAD

C. E. SLACHTA
DIVISION CONTRACT ENGINEER

S. P. FENWICK, PLS
DIVISION DESIGN ENGINEER



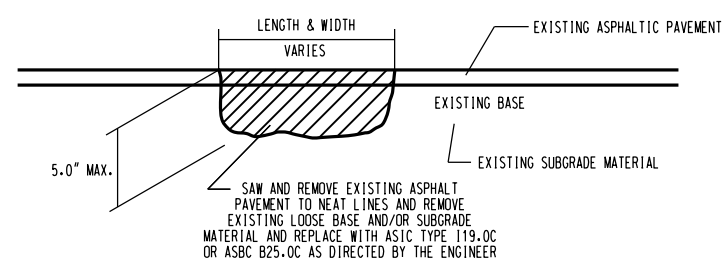
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C:\WORK\DIVISION\GCM
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PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
F1	ASPHALT SURFACE TREATMENT, SINGLE SEAL
T	EARTH MATERIAL
U	EXISTING PAVEMENT.

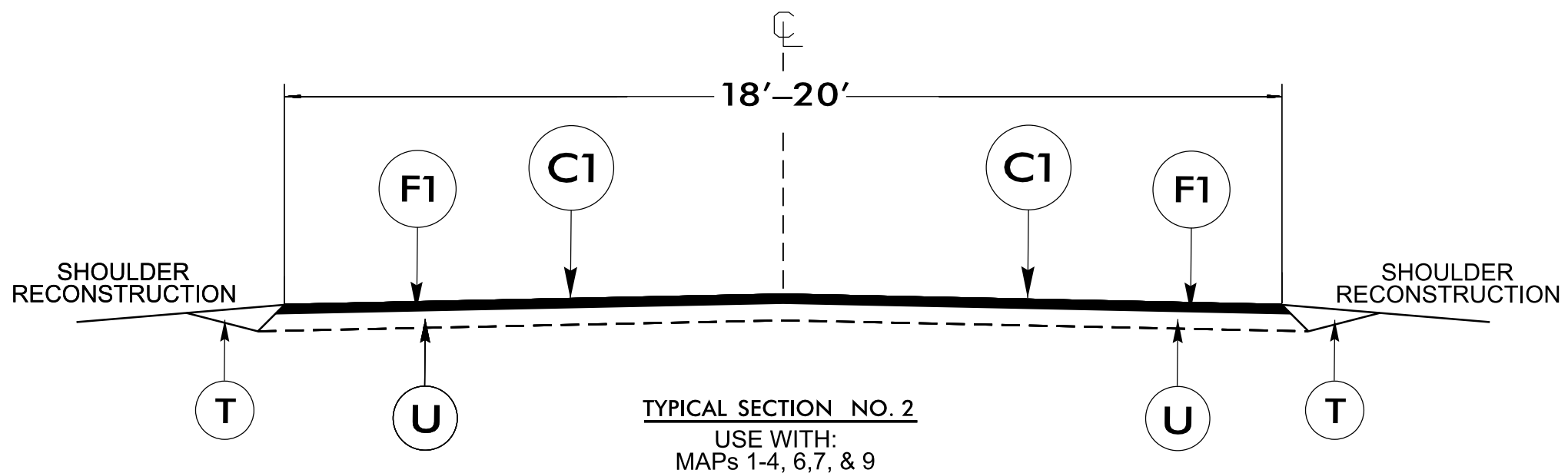
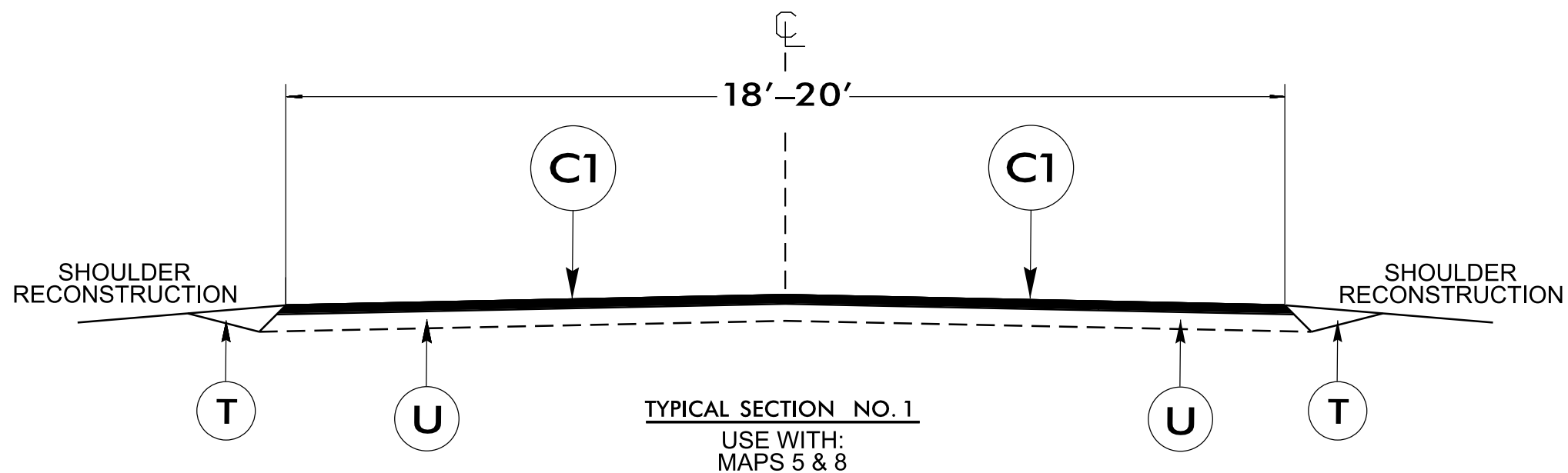
NOTES:

- * 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
- * ASPHALT SURFACE TREATMENT SHALL BE ALLOWED TO SET UP FOR A MINIMUM OF 10 DAYS BEFORE ANY OTHER WORK CAN BE PERFORMED. ASPHALT SURFACE TREATMENT SHALL BE THOROUGHLY BROOMED TO REMOVE EXCESS AGGREGATE, PRIOR TO FINAL SURFACE LAYER BEING INSTALLED
- * ASPHALT SURFACE TREATMENT (SINGLE SEAL) CONSISTS OF: ONE LAYER OF EMULSIFIED ASPHALT GRADE CRS-2L AT A RATE OF 0.28± GAL/SY AND ONE LAYER OF 5/16 LIGHTWEIGHT AGGREGATE AT A RATE OF 9± LBS/SY.



*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"



PROJECT NO.	SHEET NO.
2022CPT.01.07.20661.1	4

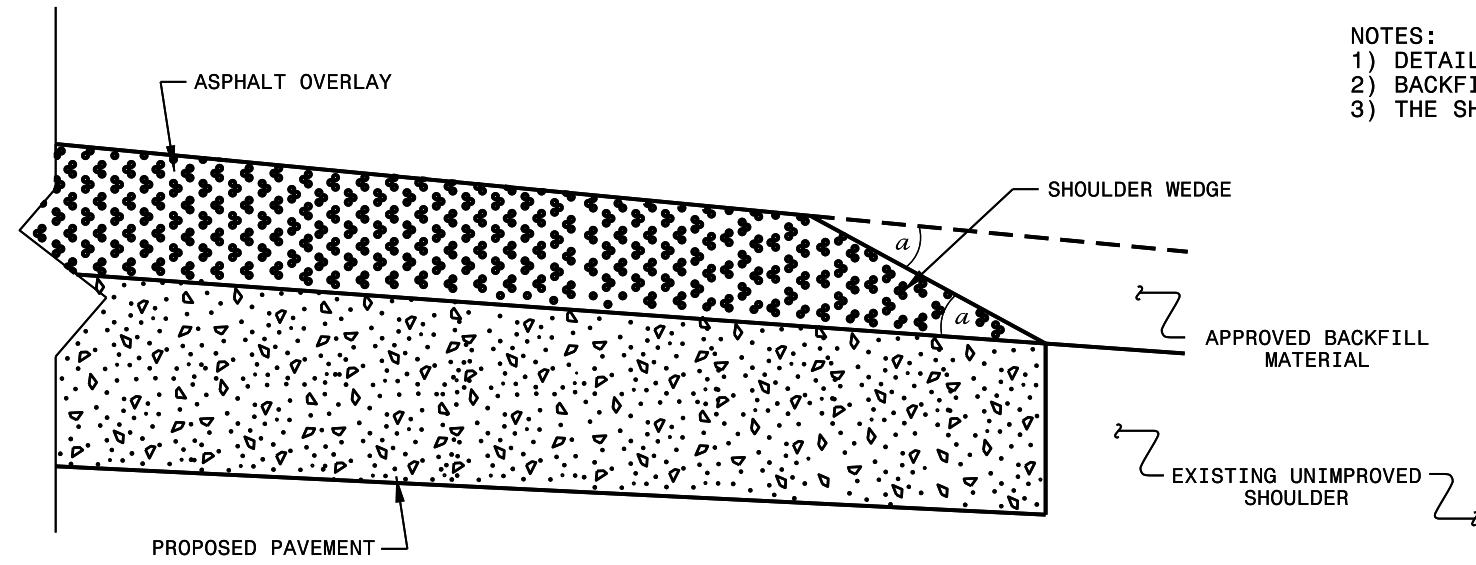
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	MOBILIZATION	BORROW EXCAVATION	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	ASPHALT SURFACE TREATMENT, SINGLE SEAL	EMULSION FOR ASPHALT SURFACE TREATMENT	GENERIC PAVING ITEM, FULL DEPTH PATCHING 0-5"	IMPACT ATTENUATOR UNITS, TYPE TL-3	GUARDRAIL END UNITS, TYPE TL-3	TEMPORARY SILT FENCE	COIR FIBER WATTLE	SEEDING & MULCHING	RESPONSE FOR EROSION CONTROL
										MI	FT	LS	CY	TONS	SMI	SY	TONS	TONS	SY	GAL	TON	EA	EA	LF	LF	ACR	EA
2022CPT.01.07.20661.1	Northampton	1	SR1101 MARY ODOM RD	HERTFORD CO LINE TO NC305	1	2	2WU	NO	NO	0.75	20	1	150	15	1.50	400	805	54	8,800	2,700	20		6	100	100	0.8	1
2022CPT.01.07.20661.1	Northampton	2	SR1302 HICKORY TREE RD	SR1301 CORNWALLIS RD TO SR1300 BIG JOHNS STORE RD	1	2	2WU	NO	NO	0.95	20	*	190	19	1.90	200	1,018	68	11,147	3,500	30			100	100	1.0	1
2022CPT.01.07.20661.1	Northampton	3	SR1325 JORDAN MILL RD	NC186 TO SR1328 MT ZION CHURCH RD	1	2	2WU	NO	NO	3.32	20	*	664	66	6.64	500	3,626	243	39,785	12,000	20			100	100	3.3	3
2022CPT.01.07.20661.1	Northampton	4	SR1502 GRIFFINTOWN RD	NC305 TO NC35	1	2	2WU	NO	NO	5.33	20	*	1,066	107	10.66	800	5,797	388	63,787	19,200	25	4	4	100	100	5.3	5
2022CPT.01.07.20661.1	Northampton	5	SR1514 PIN HOOK RD	SR1503 LASKER RD TO SR1502 GRIFFINTOWN RD	2	2	2WU	NO	NO	1.85	18	*	370	37	3.70	500	1,840	123		20			100	100	1.9	2	
2022CPT.01.07.20661.1	Northampton	6	SR1515 COLLIER RD	SR1511 BRIDGERS RD TO SR1514 PIN HOOK RD	1	2	2WU	NO	NO	1.53	20	*	306	31	3.06	300	1,671	112	18,337	5,500	20			100	100	1.5	2
2022CPT.01.07.20661.1	Northampton	7	SR1517 BRISTOW SAWMILL RD	SR1516 LASKER GOLF COURSE RD TO SR1501 DUSTY HILL RD	1	2	2WU	NO	NO	1.75	20	*	350	35	3.50		1,876	126	20,533	6,200	20			100	100	1.8	2
2022CPT.01.07.20661.1	Northampton	8	SR1519 LASKER RD	SR1503 LASKER RD TO SR1514 PIN HOOK RD	2	2	2WU	NO	NO	0.18	20	*	36	4	0.36	200	193	13		20			100	100	0.2	1	
2022CPT.01.07.20661.1	Northampton	9	SR1539 WILLIAM PARKER RD	HERTFORD CO LINE TO US 258	1	2	2WU	NO	NO	0.33	18	*	66	7	0.66	200	318	21	3,485	1,100	20			100	100	0.3	1
TOTAL FOR PROJ NO. 2022CPT.01.07.20661.1										15.99		1	3,198	321	31.98	3,100	17,144	1,148	165,874	50,200	195	4	10	900	900	16.01	18
GRAND TOTAL										15.99		1	3,198	321	31.98	3,100	17,144	1,148	165,874	50,200	195	4	10	900	900	16.01	18

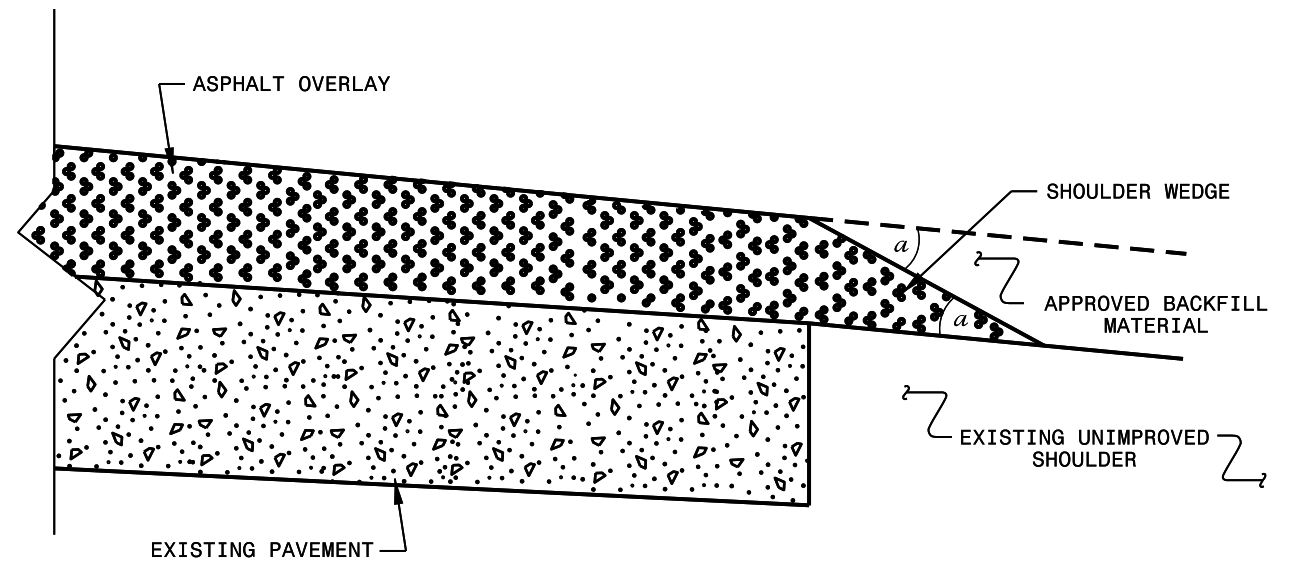
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	WORK ZONE ADVANCE/ GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	GENERIC PAVEMENT MARKING ITEM, THERMO HOT SPRAY LINES (4" 55 MILS) WHITE	GENERIC PAVEMENT MARKING ITEM, THERMO HOT SPRAY LINES (4" 55 MILS) YELLOW		
								MI	FT	SF	LS	LF	LF	LF	LFT		
2022CPT.01.07.20661.1	Northampton	1	SR1101 MARY ODOM RD	HERTFORD CO LINE TO NC305	1	2	2WU	0.75	20	80	1	8,070	9,900	8,070	4,950		
2022CPT.01.07.20661.1	Northampton	2	SR1302 HICKORY TREE RD	SR1301 CORNWALLIS RD TO SR1300 BIG JOHNS STORE RD	1	2	2WU	0.95	20	80	*	10,222	12,540	10,222	6,270		
2022CPT.01.07.20661.1	Northampton	3	SR1325 JORDAN MILL RD	NC186 TO SR1328 MT ZION CHURCH RD	1	2	2WU	3.32	20	432	*	35,723	43,824	35,723	21,912		
2022CPT.01.07.20661.1	Northampton	4	SR1502 GRIFFINTOWN RD	NC305 TO NC35	1	2	2WU	5.33	20	536	*	57,351	70,356	57,351	35,178		
2022CPT.01.07.20661.1	Northampton	5	SR1514 PIN HOOK RD	SR1503 LASKER RD TO SR1502 GRIFFINTOWN RD	2	2	2WU	1.85	18		*	19,906	12,210	19,906	12,210		
2022CPT.01.07.20661.1	Northampton	6	SR1515 COLLIER RD	SR1511 BRIDGERS RD TO SR1514 PIN HOOK RD	1	2	2WU	1.53	20	80	*	16,463	20,196	16,463	10,098		
2022CPT.01.07.20661.1	Northampton	7	SR1517 BRISTOW SAWMILL RD	SR1516 LASKER GOLF COURSE RD TO SR1501 DUSTY HILL RD	1	2	2WU	1.75	20	80	*	18,830	23,100	18,830	11,550		
2022CPT.01.07.20661.1	Northampton	8	SR1519 LASKER RD	SR1503 LASKER RD TO SR1514 PIN HOOK RD	2	2	2WU	0.18	20		*	1,937	1,188	1,937	1,188		
2022CPT.01.07.20661.1	Northampton	9	SR1539 WILLIAM PARKER RD	HERTFORD CO LINE TO US 258	1	2	2WU	0.33	18	80	*	3,551	4,356	3,551	2,178		
TOTAL FOR PROJ NO. 2022CPT.01.07.20661.1									15.99		1,368	1	172,053	197,670	172,053	105,534	
GRAND TOTAL									15.99		1,368	1	172,053	197,670	172,053	105,534	
												369,723	277,587				

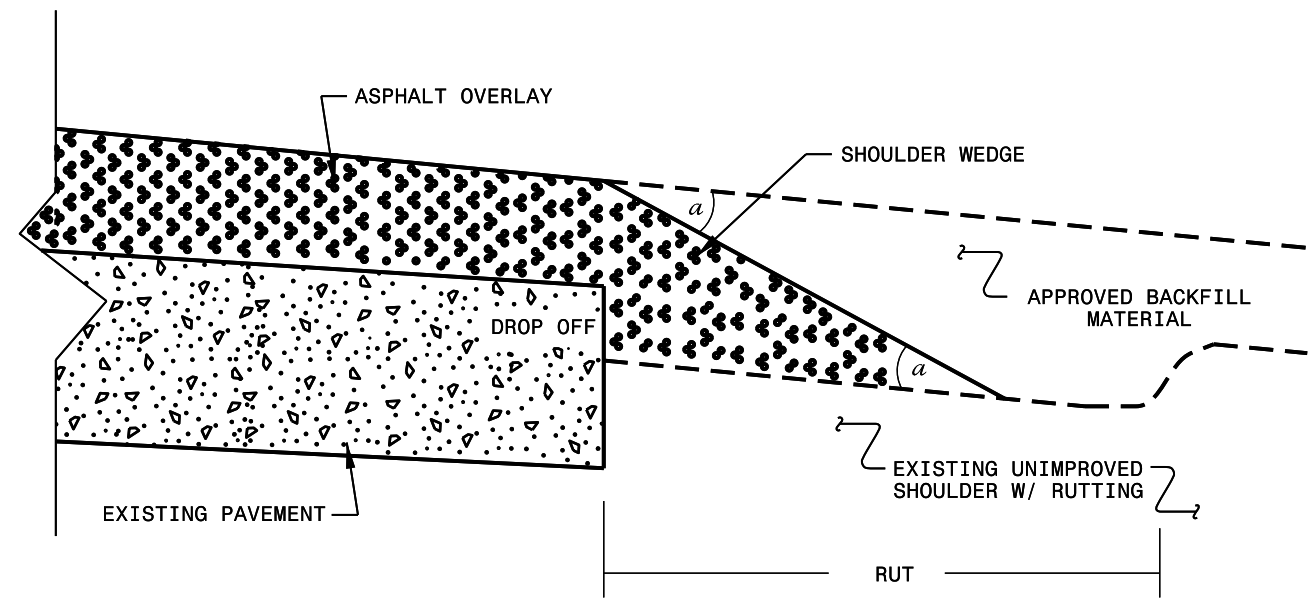
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)





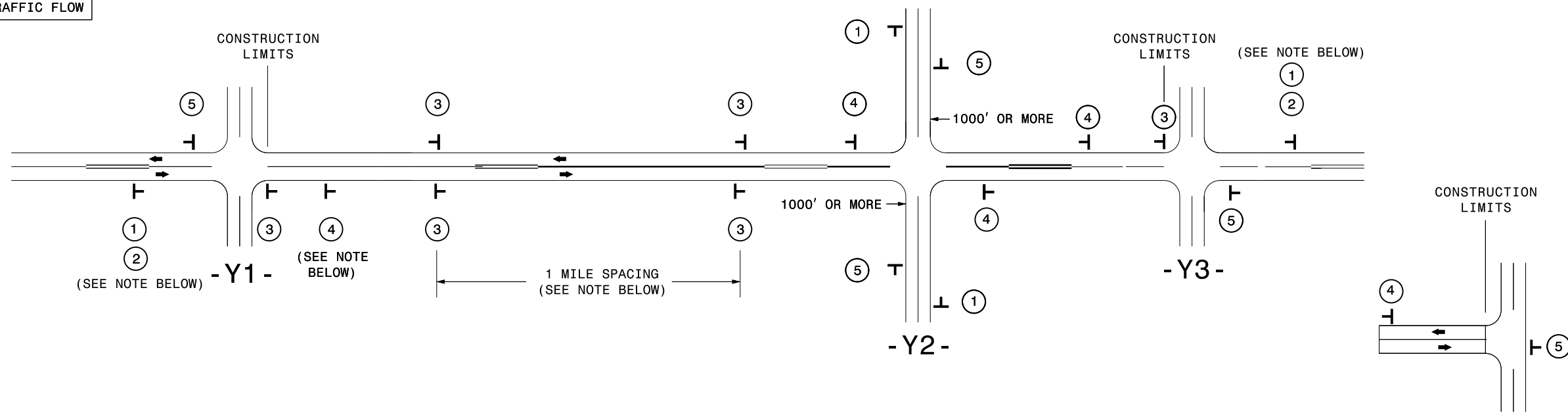
SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- 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.: s:\usr\details\stand\shoulderwedgedetail.dgn	








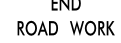

SIGNING FOR RESURFACING PROJECTS

LEGEND
 STATIONARY SIGN
 DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING




-Y- LINE SIGNING

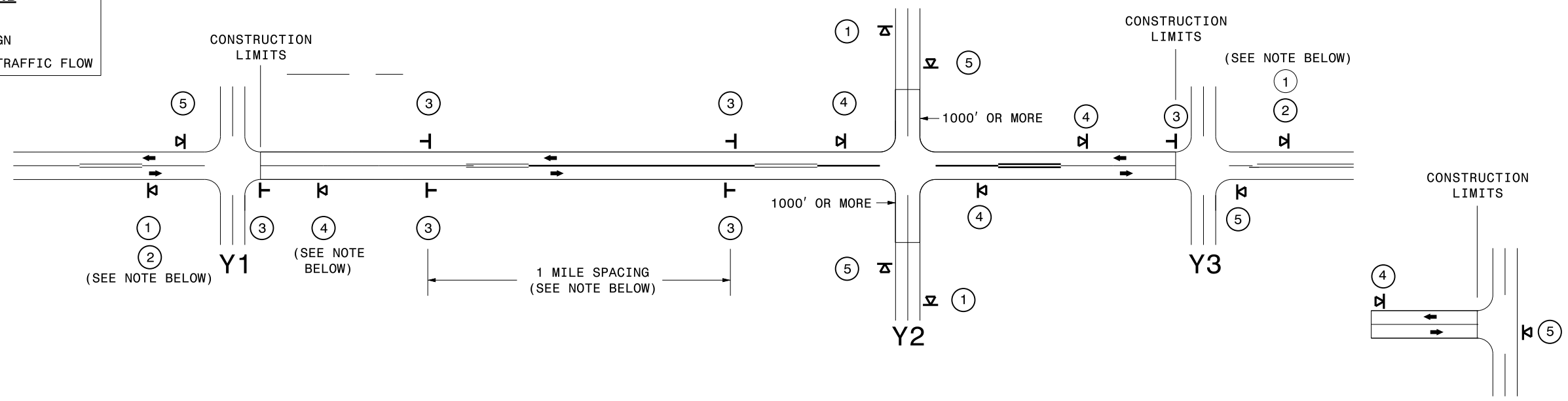
SIGNING NOTES AND PLACEMENT PER DIRECTION	 (1)  (2)	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>	<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>  (4)  (5)
	 (3)  (3)	<p>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.</p> <p>- AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 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)	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</p>	
	<p>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.</p>		
<p>MAPS LESS THAN 2 MILES</p>	<p>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.</p>		

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

SIGNING FOR ASPHALT SURFACE TREATMENT






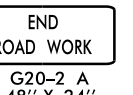
LEGEND

-  PORTABLE SIGN
-  STATIONARY SIGN
-  DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

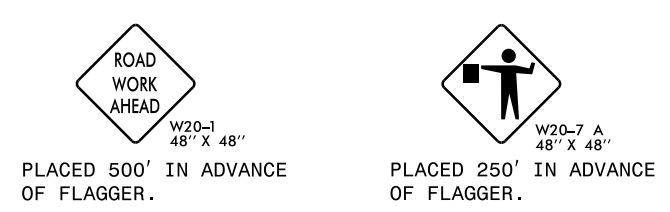
-Y- LINE SIGNING

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.
	②		- SIGN #2 ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO THE NEAREST WHOLE NUMBER. DO NOT USE FRACTIONAL OR DECIMAL NUMBERS.
	③	 	- ALTERNATE THE FOLLOWING TWO SIGNS: - STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT". - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.
	④		- 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		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.			
FOR AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY "LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.			

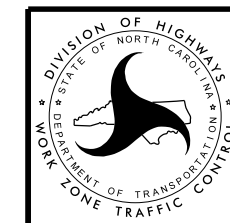
STATIONARY SIGNING NOT REQUIRED FOR THE FOLLOWING -Y- LINE CONDITIONS:

- 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.



MAPS LESS THAN 2 MILES



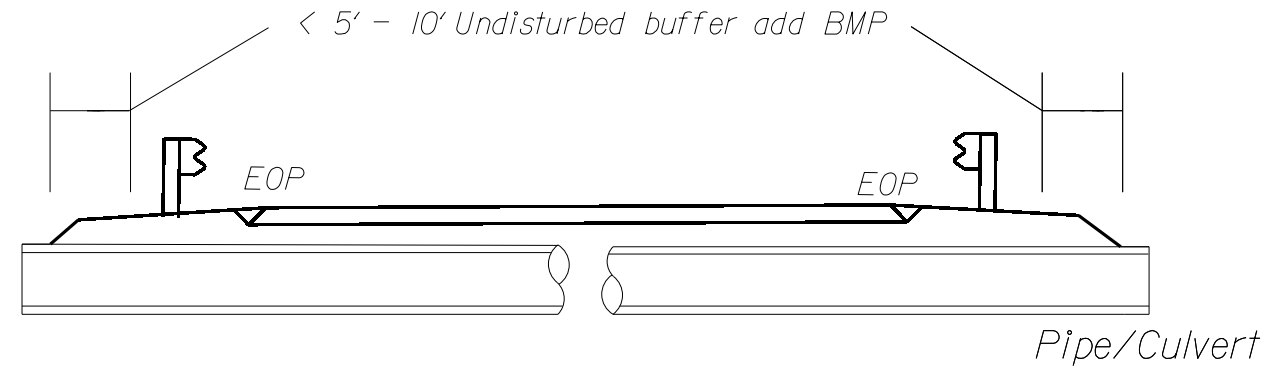
ADVANCE WARNING SIGNS FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMENT

I:\AUG-2021\0438 S:\Contractors\6) Proposed Resurfacing\DA00510 Northampton Secondary\Design Files\DA00510_DL_sh3-sh10.dgn \$\$\$USERNAME\$\$\$

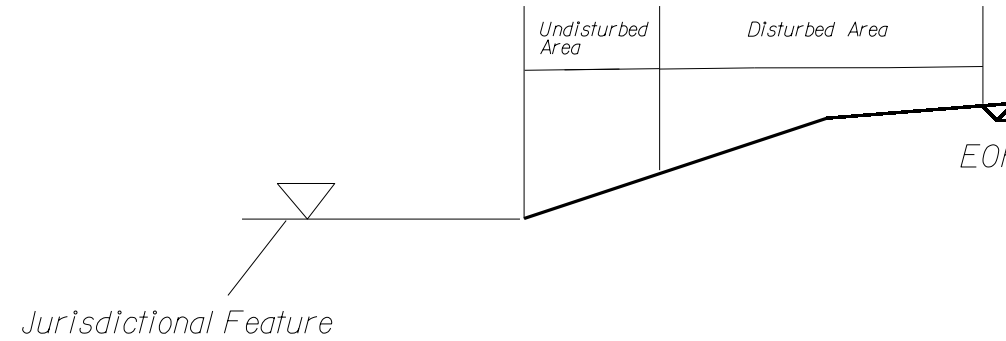
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

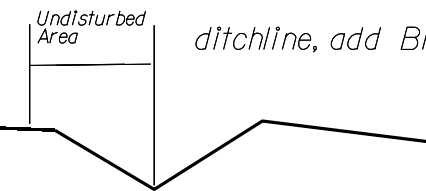
EROSION CONTROL DETAIL



< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP



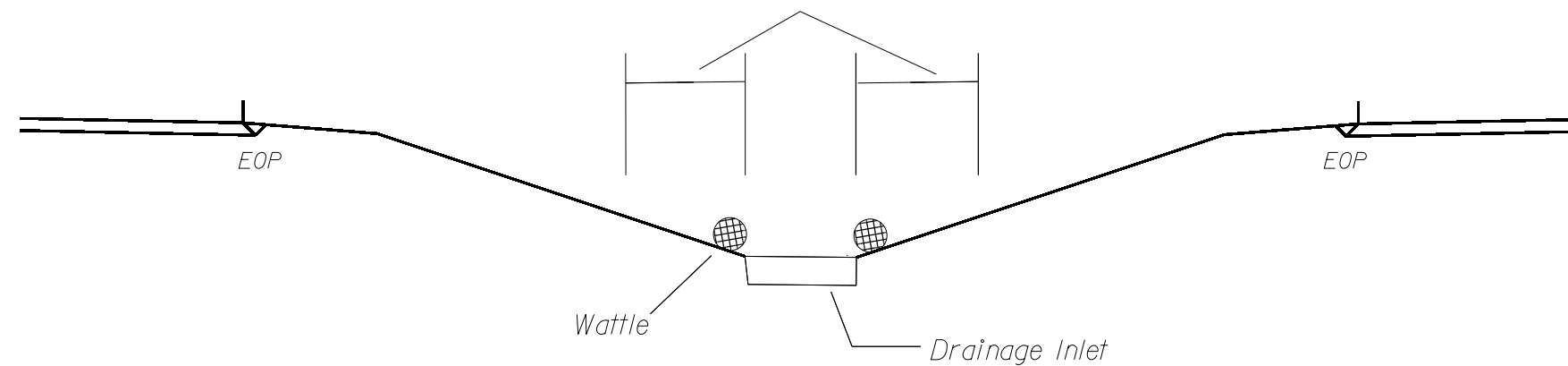
< 5' - 10' Undisturbed buffer from ditchline, add BMP



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

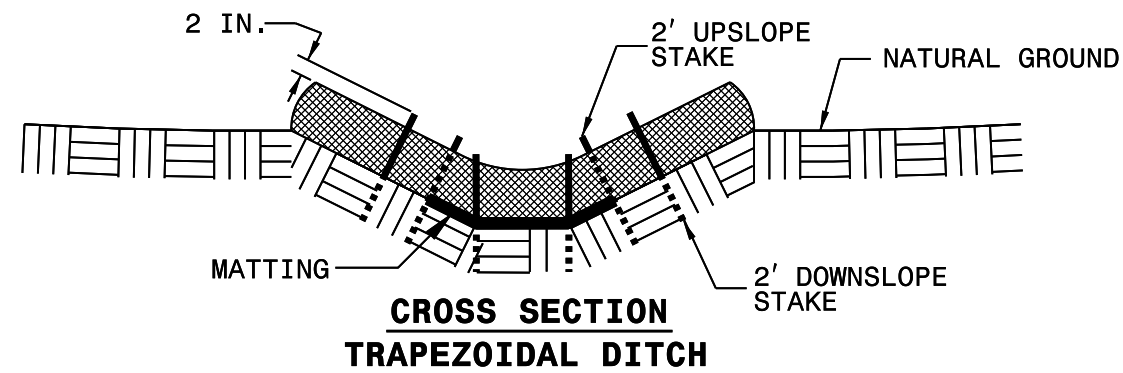
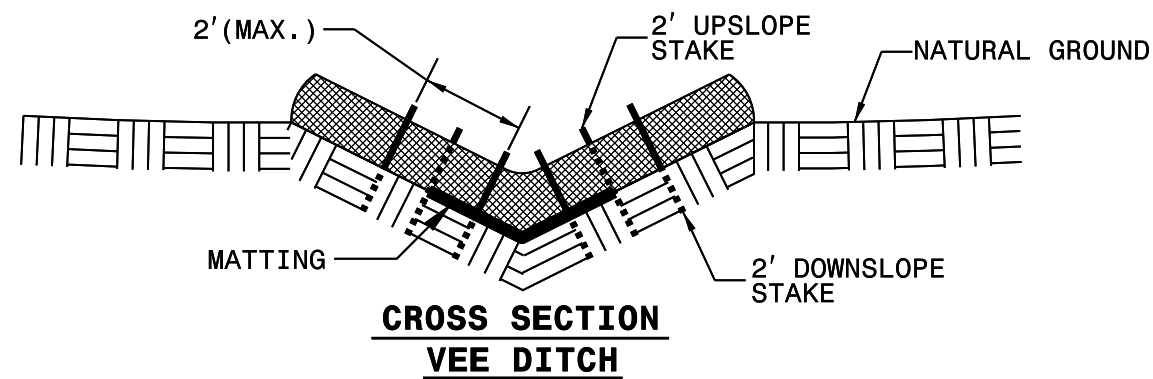
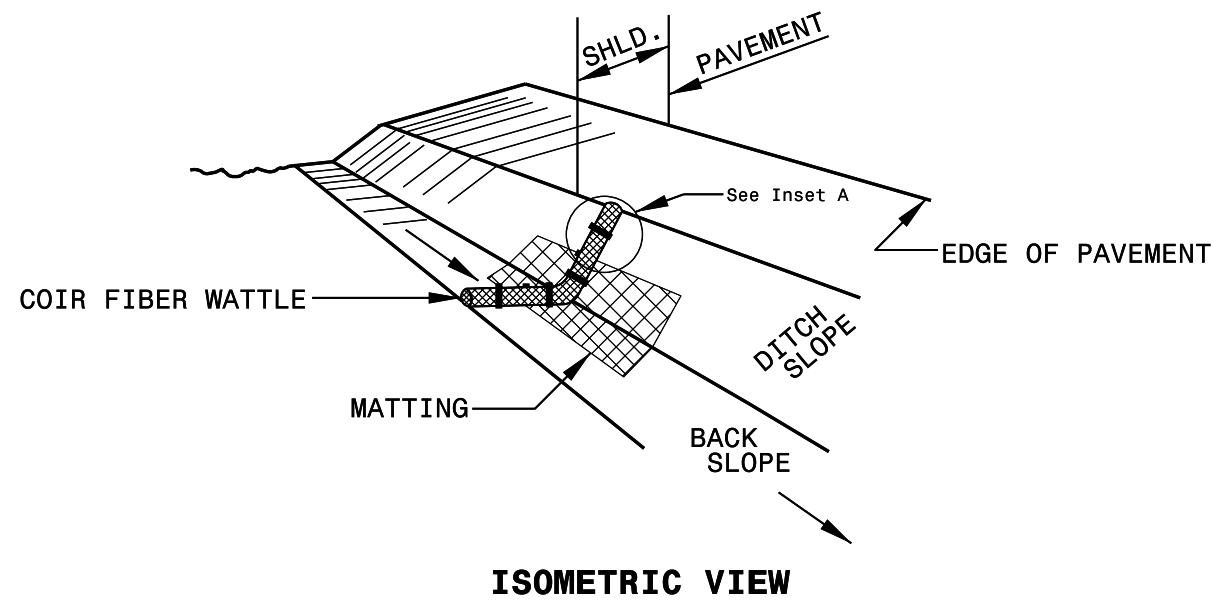


< 5' - 10' Undisturbed buffer from inlet, add wattle



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.

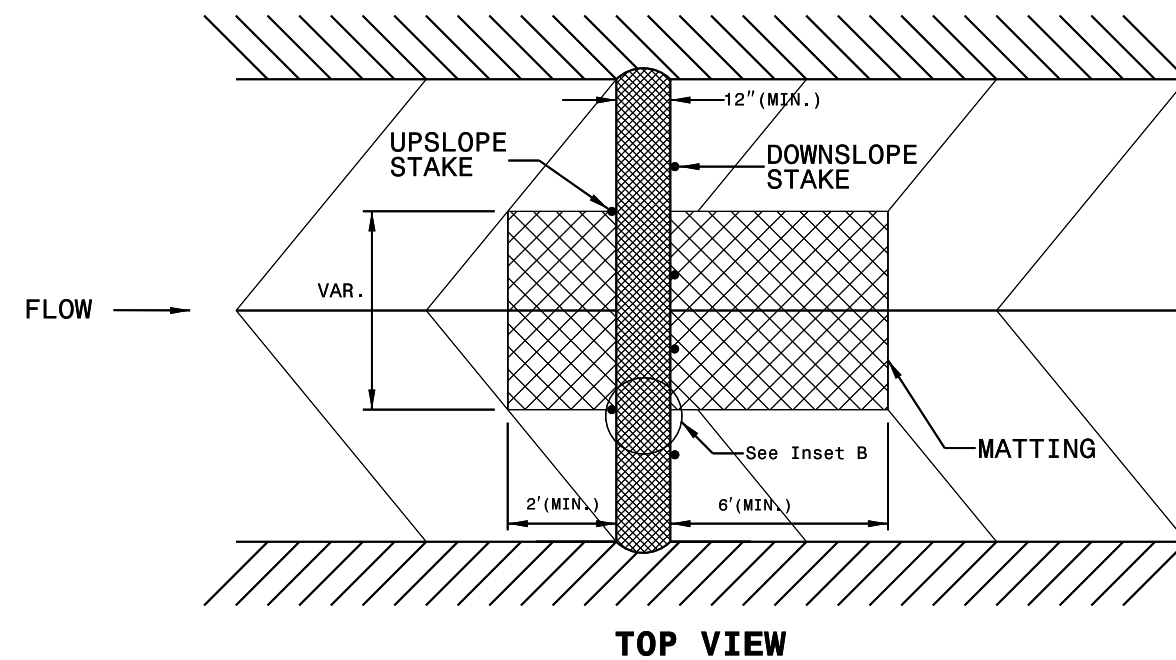
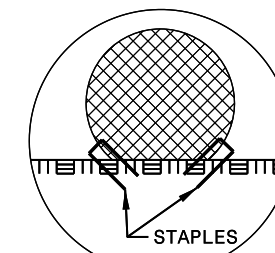
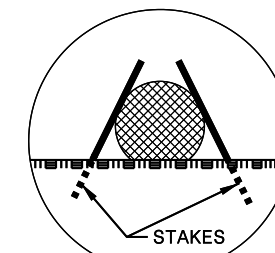
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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 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.



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 (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.