

07-MAY-2015 10:26 C:\Users\jibconner\Documents\CURRENT PROJECTS\FY15-16 AST\Bertie & Hertford\Bertie_Hertford_AST_plans.dgn jibconner AT DICAD270263 09/08/99

CONTRACT: DA00252 WBS PROJECT: ISP.20085.1, ETC.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

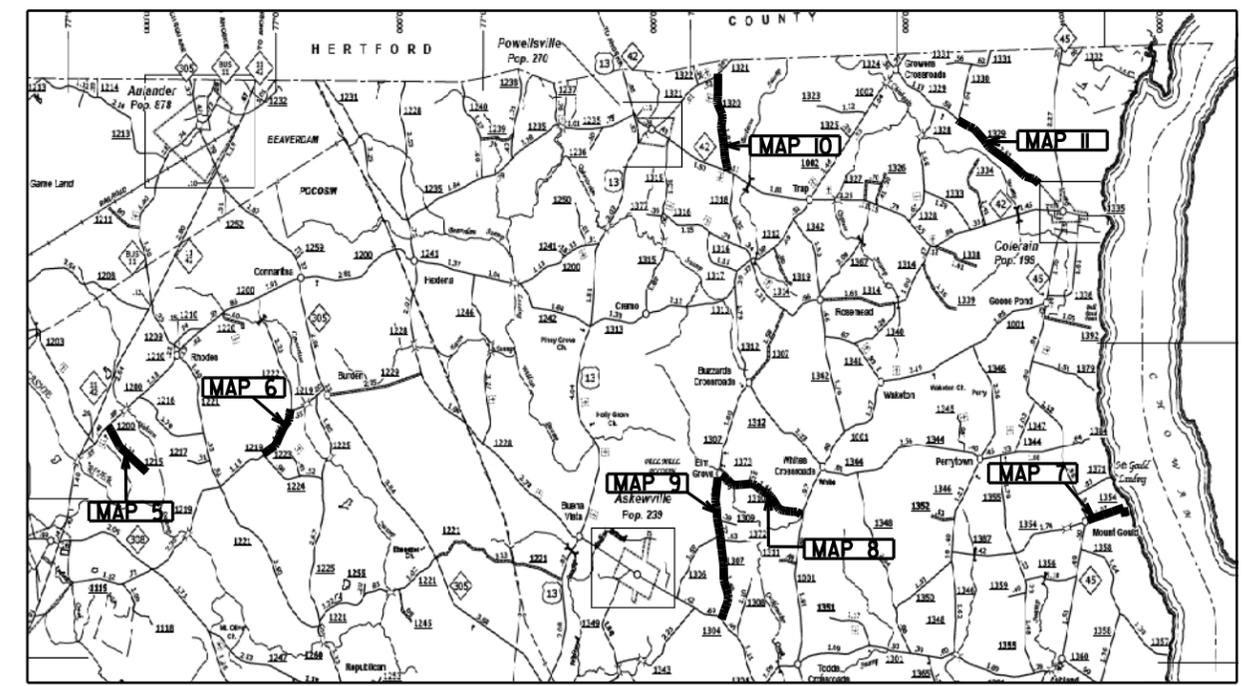
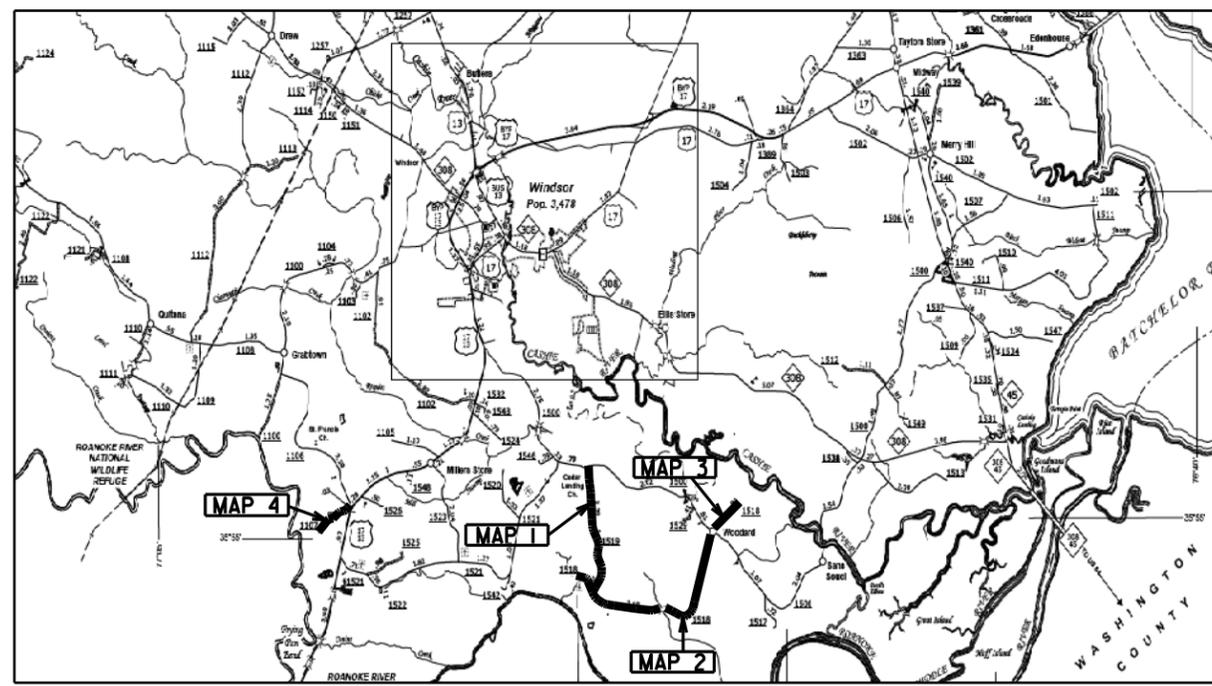
BERTIE COUNTY



- LOCATION:**
- MAP 1 SR 1519 FROM SR 1500 TO SR 1518
 - MAP 2 SR 1518 FROM SR 1500 TO END
 - MAP 3 SR 1518 FROM SR 1500 TO END
 - MAP 4 SR 1107 FROM SR 1106 TO END
 - MAP 5 SR 1215 FROM SR 1200 TO DEAD END
 - MAP 6 SR 1219 FROM SR 1224 TO SR 1222
 - MAP 7 SR 1354 FROM NC 45 TO DEAD END
 - MAP 8 SR 1310 FROM SR 1307 TO SR 1001
 - MAP 9 SR 1307 FROM SR 1304 TO SR 1310
 - MAP 10 SR 1320 FROM NC 42 TO SR 1321
 - MAP 11 SR 1329 FROM SR 1330 TO NCL COLERAIN

TYPE OF WORK: ASPHALT SURFACE TREATMENT DOUBLE SEAL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	ISP.20085.1, ETC.	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
1SP.20085.1		MAP 1	
1SP.20085.2		MAP 2	
1SP.20085.3		MAP 3	
1SP.20085.4		MAP 4	
1SP.20085.7		MAP 5	
1SP.20085.8		MAP 6	
1SP.20085.9		MAP 7	
1SP.20085.10		MAP 8	
1SP.20085.11		MAP 9	
1SP.20085.12		MAP 10	
1SP.20085.13		MAP 11	



NTS

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT MAP 1	= 2.39 MI.
LENGTH OF ROADWAY PROJECT MAP 2	= 4.39 MI.
LENGTH OF ROADWAY PROJECT MAP 3	= 0.81 MI.
LENGTH OF ROADWAY PROJECT MAP 4	= 0.88 MI.
LENGTH OF ROADWAY PROJECT MAP 5	= 1.21 MI.
LENGTH OF ROADWAY PROJECT MAP 6	= 1.07 MI.
LENGTH OF ROADWAY PROJECT MAP 7	= 1.07 MI.
LENGTH OF ROADWAY PROJECT MAP 8	= 2.14 MI.
LENGTH OF ROADWAY PROJECT MAP 9	= 2.68 MI.
LENGTH OF ROADWAY PROJECT MAP 10	= 1.81 MI.
LENGTH OF ROADWAY PROJECT MAP 11	= 2.67 MI.

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

2012 STANDARD SPECIFICATIONS

LETTING DATE:

W.B. HOBBS, P.E.
DIVISION PROJECT MANAGER

C.E. SLACHTA
DIVISION PROPOSALS ENGINEER



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	ISP.20085.1, ETC.	2	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
1SP.20465.1		MAP 12	
1SP.20465.2		MAP 13	
1SP.20465.3		MAP 14	
1SP.20465.4		MAP 15	
1SP.20465.5		MAP 16	
1SP.20465.6		MAP 17	
1SP.20465.7		MAP 18	

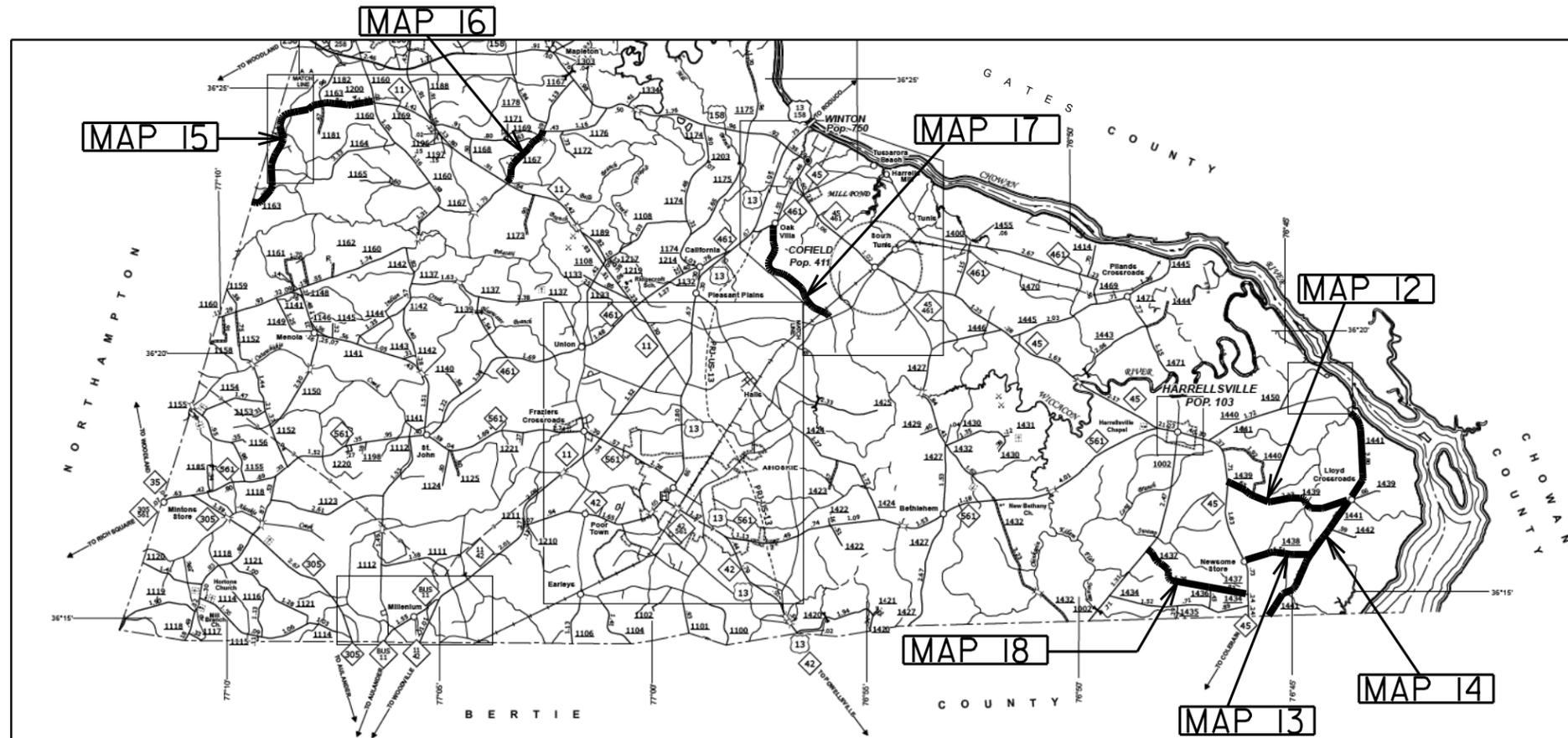
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HERTFORD COUNTY



LOCATION: MAP 12 SR 1439 FROM NC 45 TO SR 1441
MAP 13 SR 1438 FROM NC 45 TO SR 1441
MAP 14 SR 1441 FROM BRIDGE TO BERTIE CO. LINE
MAP 15 SR 1163 FROM NORTHAMPTON CO. LINE TO SR 1160
MAP 16 SR 1167 FROM NC 11 TO SR 1176
MAP 17 SR 1407 FROM NC 461 TO SR 1403
MAP 18 SR 1437 FROM NC 45 TO SR 1002

TYPE OF WORK: ASPHALT SURFACE TREATMENT DOUBLE SEAL



NTS

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT MAP 12 = 2.96 MI.
 LENGTH OF ROADWAY PROJECT MAP 13 = 1.51 MI.
 LENGTH OF ROADWAY PROJECT MAP 14 = 5.12 MI.
 LENGTH OF ROADWAY PROJECT MAP 15 = 4.29 MI.
 LENGTH OF ROADWAY PROJECT MAP 16 = 1.45 MI.
 LENGTH OF ROADWAY PROJECT MAP 17 = 2.77 MI.
 LENGTH OF ROADWAY PROJECT MAP 18 = 2.60 MI.

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2012 STANDARD SPECIFICATIONS

LETTING DATE:

W.B. HOBBS, P.E.
DIVISION PROJECT MANAGER

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P A V E M E N T S C H E D U L E

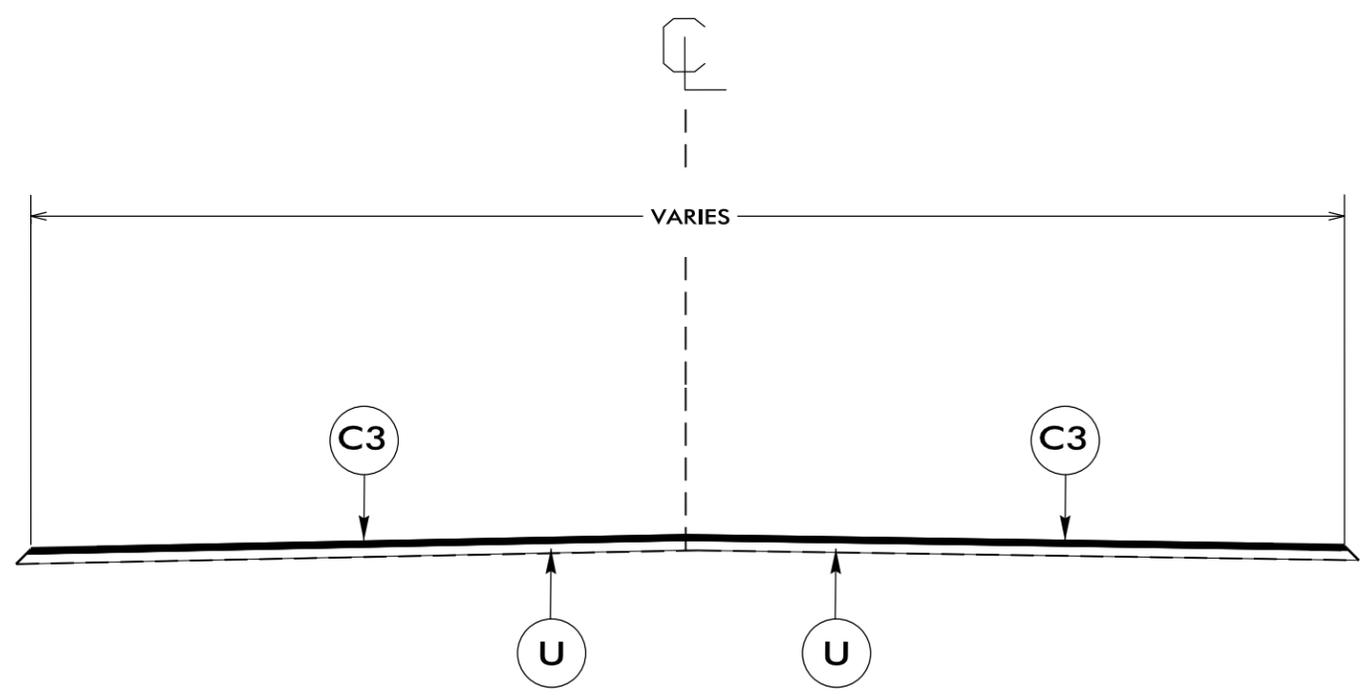
C3	PROP. ASPHALT SURFACE TREATMENT, DOUBLE SEAL, AT AN APPLICATION RATE TO BE DETERMINED BY FIELD CONDITIONS IN ACCORDANCE WITH PROJECT SPECIAL PROVISIONS (SEE NOTES)
U	EXISTING PAVEMENT.

NOTES:

- *ALL PAVED S.R. ROADS TO BE TREATED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER.
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS.
- *ASPHALT SURFACE TREATMENT, DOUBLE SEAL CONSISTS OF TWO LAYERS OF TREATMENT:

 BOTTOM LAYER CONSISTS OF EMULSIFIED ASPHALT, GRADE CRS-2L AT A RATE OF APPROX 0.30 ± GAL/SY AND A LAYER OF 78M AGGREGATE AT A RATE OF APPROX. 18 ± LBS/SY.

 TOP LAYER CONSISTS OF EMULSIFIED ASPHALT, GRADE CRS-2L AT A RATE OF APPROX 0.25 ± GAL/SY AND A LAYER OF #9 AGGREGATE AT A RATE OF APPROX. 9 ± LBS/SY.



TYPICAL SECTION NO. 1

USE WITH MAPS 1 - 18

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 Bertie - 11/11/15/10:31

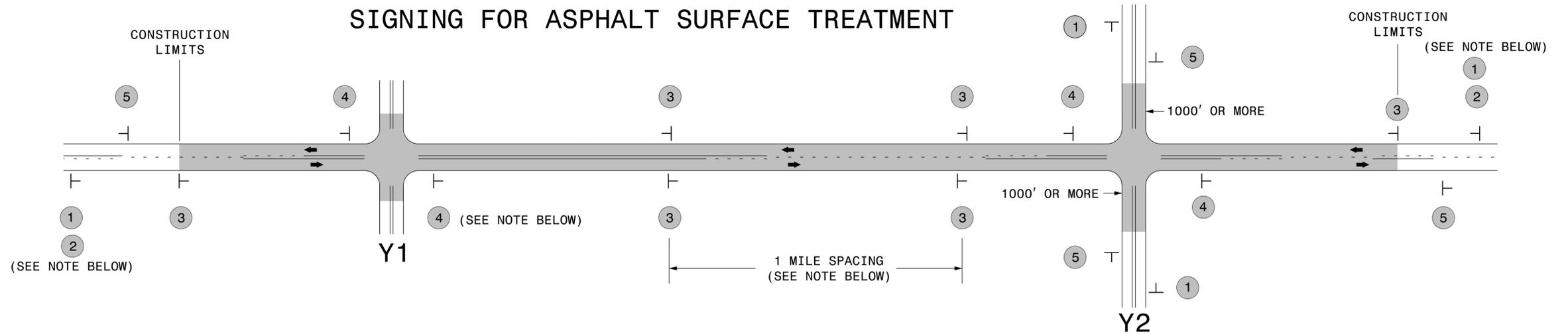
NTS

PROJECT NO.	SHEET NO.	TOTAL NO.
1SP.20085.1, ETC	4	5

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANE TYPE	LENGTH MI	WIDTH FT	MOBILIZATION LS	ASPHALT SURFACE TREATMENT, DOUBLE SEAL SY	EMULSION FOR ASPHALT SURFACE TREATMENT GAL	TEMP TRAFFIC CONTROL LS
1SP.20085.1	Bertie	1	SR 1519	FROM SR 1500 TO SR 1518	1	2WU	2.39	20	1	28,043	15,985	1
1SP.20085.2	Bertie	2	SR 1518	FROM SR 1500 TO END	1	2WU	4.39	20	*	53,220	30,335	*
1SP.20085.3	Bertie	3	SR 1518	FROM SR 1500 TO END	1	2WU	0.81	20	*	9,504	5,417	*
1SP.20085.4	Bertie	4	SR 1107	FROM SR 1106 TO END	1	2WU	0.88	19	*	9,809	5,591	*
1SP.20085.7	Bertie	5	SR 1215	FROM SR 1200 TO DEAD END	1	2WU	1.21	19	*	13,487	7,688	*
1SP.20085.8	Bertie	6	SR 1219	FROM SR 1224 TO SR 1222	1	2WU	1.07	20	*	12,555	7,156	*
1SP.20085.9	Bertie	7	SR 1354	FROM NC 45 TO DEAD END	1	2WU	1.07	18	*	11,299	6,440	*
1SP.20085.10	Bertie	8	SR 1310	FROM SR 1307 TO SR 1001	1	2WU	2.14	20	*	26,664	15,198	*
1SP.20085.11	Bertie	9	SR 1307	FROM SR 1304 TO SR 1310	1	2WU	2.68	20	*	32,712	18,646	*
1SP.20085.12	Bertie	10	SR 1320	FROM NC 42 TO SR 1321	1	2WU	1.81	20	*	21,237	12,105	*
1SP.20085.13	Bertie	11	SR 1329	FROM SR 1330 TO COLERAIN NCL	1	2WU	2.67	20	*	31,328	17,857	*
1SP.20465.1	Hertford	12	SR 1439	FROM NC 45 TO SR 1441	1	2WU	2.96	20	*	34,731	19,797	*
1SP.20465.2	Hertford	13	SR 1438	FROM NC 45 TO SR 1441	1	2WU	1.51	20	*	17,717	10,099	*
1SP.20465.3	Hertford	14	SR 1441	FROM BRIDGE TO BERTIE CO. LINE	1	2WU	5.12	20	*	62,005	35,343	*
1SP.20465.4	Hertford	15	SR 1163	FROM NORTHAMPTON CO. LINE TO SR 1160	1	2WU	4.29	20	*	51,619	29,423	*
1SP.20465.5	Hertford	16	SR 1167	FROM NC 11 TO SR 1176	1	2WU	1.45	20	*	17,946	10,229	*
1SP.20465.6	Hertford	17	SR 1407	FROM NC 461 TO SR 1403	1	2WU	2.77	20	*	32,501	18,526	*
1SP.20465.7	Hertford	18	SR 1437	FROM NC 45 TO SR 1002	1	2WU	2.60	20	*	31,215	17,793	*
GRAND TOTAL							41.82		1	497,592	283,628	1

SIGNING FOR ASPHALT SURFACE TREATMENT



LEGEND	
	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION		
1 2	 W20-1 48" X 48" W7-3aP 24" X 18"	<p style="text-align: center;">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 RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p>
3	 W8-7 48" X 48" SP 48" X 48"	<p style="text-align: center;">ALTERNATE THE FOLLOWING TWO SIGNS: STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT".</p> <p>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.</p>
4	 SP 13106 48" X 48"	<p>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.</p>
5	 G20-2 A 48" X 24"	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>

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.

**ADVANCE WARNING SIGNS
FOR
ASPHALT SURFACE TREATMENTS
2 LANE ROADWAYS**