

05/08/99

CONTRACT NO.: DA00290 WBS ELEMENT: 2016CPT.01.23.20081.1, ETC.

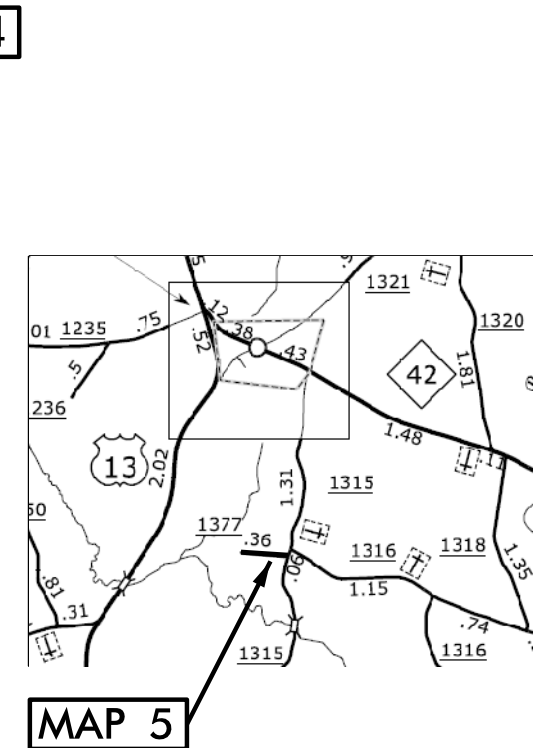
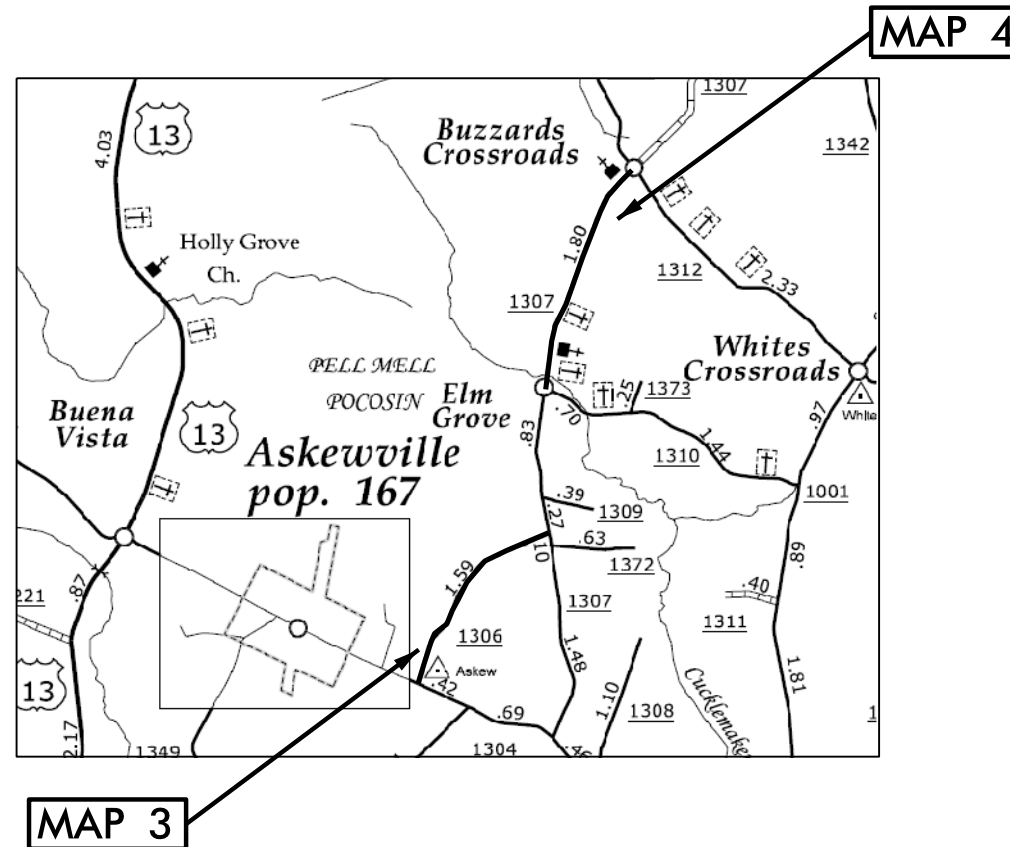
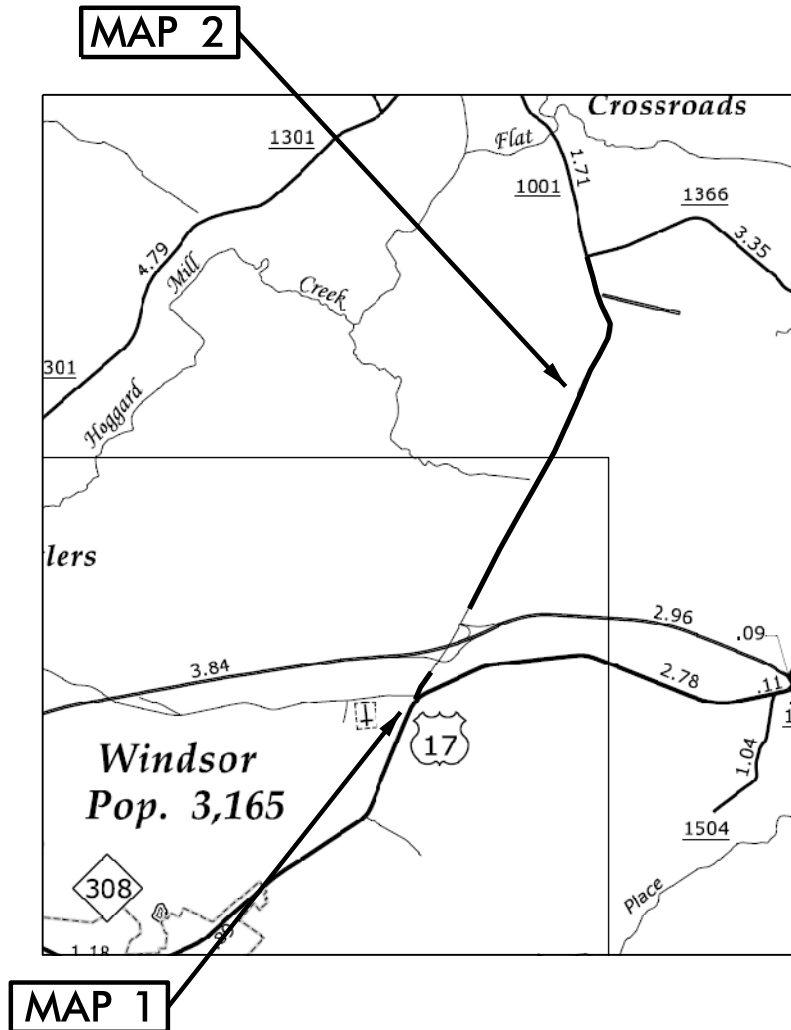
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BERTIE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.01.23.20081.1, ETC.	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2016CPT.01.23.20081.1		MAPS 1 - 5	

LOCATION: MAP 1 SR 1001 FROM US 17 BUS. TO PAVEMENT CHANGE
 MAP 2 SR 1001 FROM PAVEMENT CHANGE NORTH OF US 17 BYP. TO SR 1366
 MAP 3 SR 1306 FROM SR 1304 TO SR 1307
 MAP 4 SR 1307 FROM SR 1310 TO SR 1312
 MAP 5 SR 1377 FROM SR 1315 TO END

TYPE OF WORK: RESURFACING



NTS

**PROJECT LENGTH
MAP LENGTHS:**

- LENGTH OF ROADWAY PROJECT MAP 1 = 0.14 MI.
- LENGTH OF ROADWAY PROJECT MAP 2 = 2.77 MI.
- LENGTH OF ROADWAY PROJECT MAP 3 = 1.57 MI.
- LENGTH OF ROADWAY PROJECT MAP 4 = 1.80 MI.
- LENGTH OF ROADWAY PROJECT MAP 5 = 0.35 MI.

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

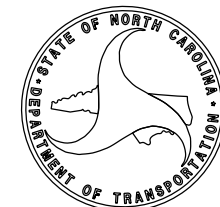
2012 STANDARD SPECIFICATIONS

LETTING DATE: _____

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

C.E. SLACHTA
DIVISION PROPOSALS ENGINEER

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**



05/08/99

CONTRACT NO.: DA00290 WBS ELEMENT: 2016CPT.01.23.20081.1, ETC.

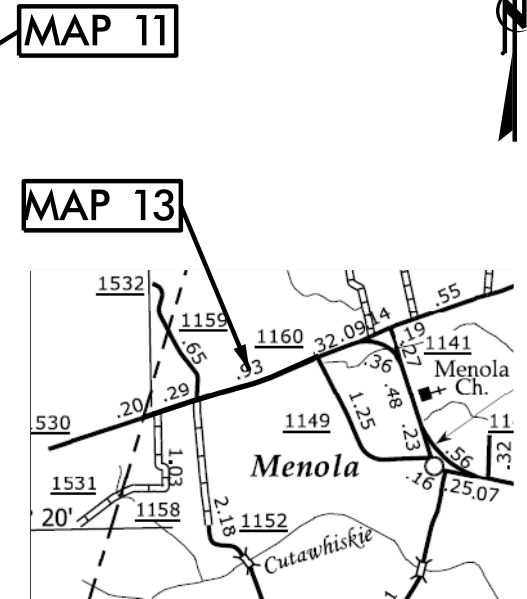
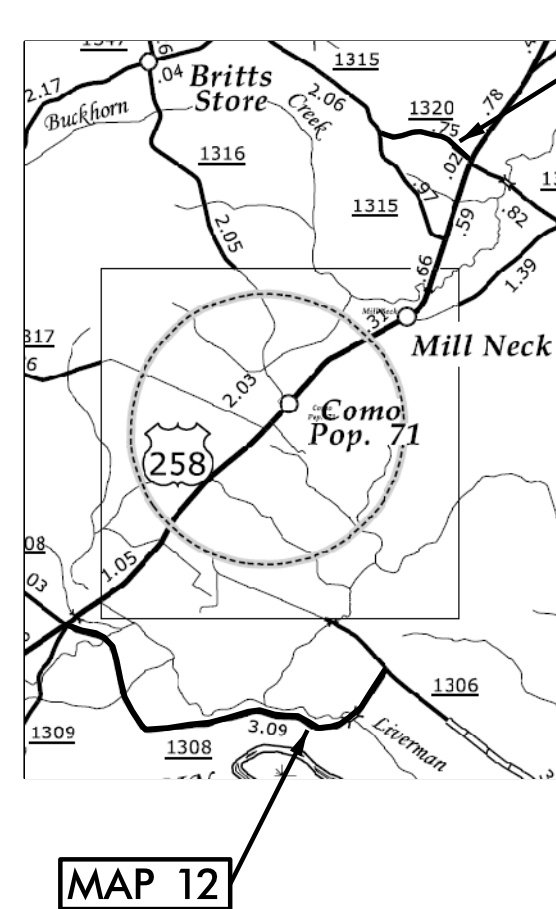
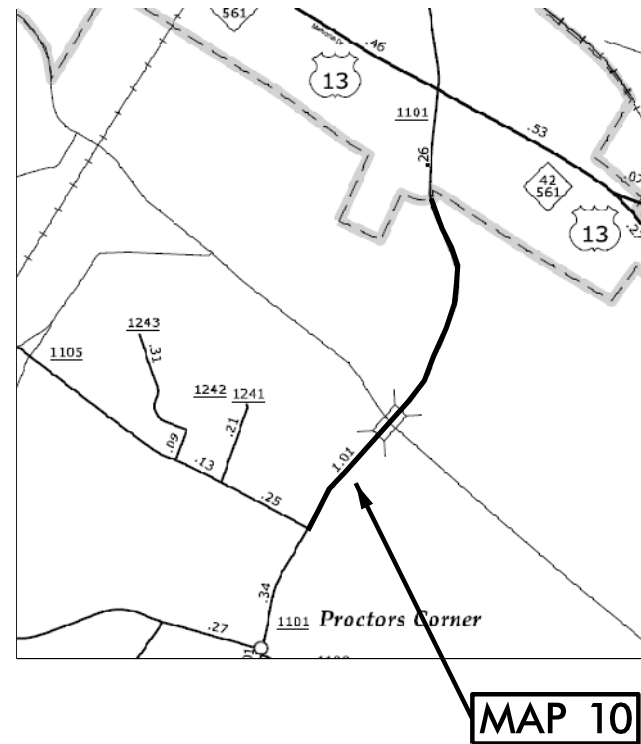
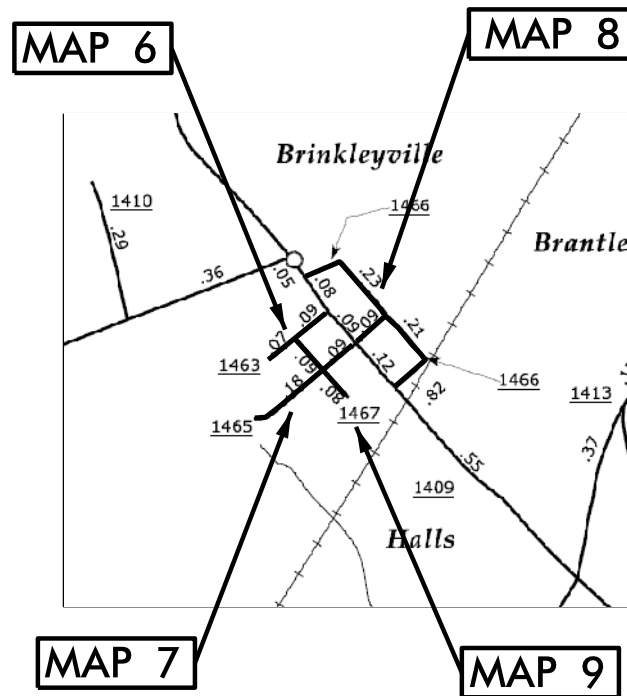
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HERTFORD COUNTY

**LOCATION: MAP 6 SR 1463 FROM SR 1409 TO END
 MAP 7 SR 1465 FROM SR 1466 TO END
 MAP 8 SR 1466 FROM SR 1409 TO SR 1409
 MAP 9 SR 1467 FROM SR 1463 TO END
 MAP 10 SR 1101 FROM SR 1105 TO AHOSKIE SCL
 MAP 11 SR 1320 FROM US 258 TO SR 1315
 MAP 12 SR 1308 FROM SR 1309 TO SR 1306
 MAP 13 SR 1160 FROM NH COUNTY LINE TO SR 1149**

TYPE OF WORK: RESURFACING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.01.23.20081.1, ETC.	2	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2016CPT.01.23.20461.1		MAP 6 - 13	



NTS

PROJECT LENGTH	
LENGTH OF ROADWAY PROJECT MAP 6	= 0.15 MI.
LENGTH OF ROADWAY PROJECT MAP 7	= 0.36 MI.
LENGTH OF ROADWAY PROJECT MAP 8	= 0.43 MI.
LENGTH OF ROADWAY PROJECT MAP 9	= 0.15 MI.
LENGTH OF ROADWAY PROJECT MAP 10	= 0.95 MI.
LENGTH OF ROADWAY PROJECT MAP 11	= 0.73 MI.
LENGTH OF ROADWAY PROJECT MAP 12	= 3.02 MI.
LENGTH OF ROADWAY PROJECT MAP 13	= 1.30 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

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

05/08/99

CONTRACT NO.: DA00290 WBS ELEMENT: 2016CPT.01.23.20081.1, ETC.

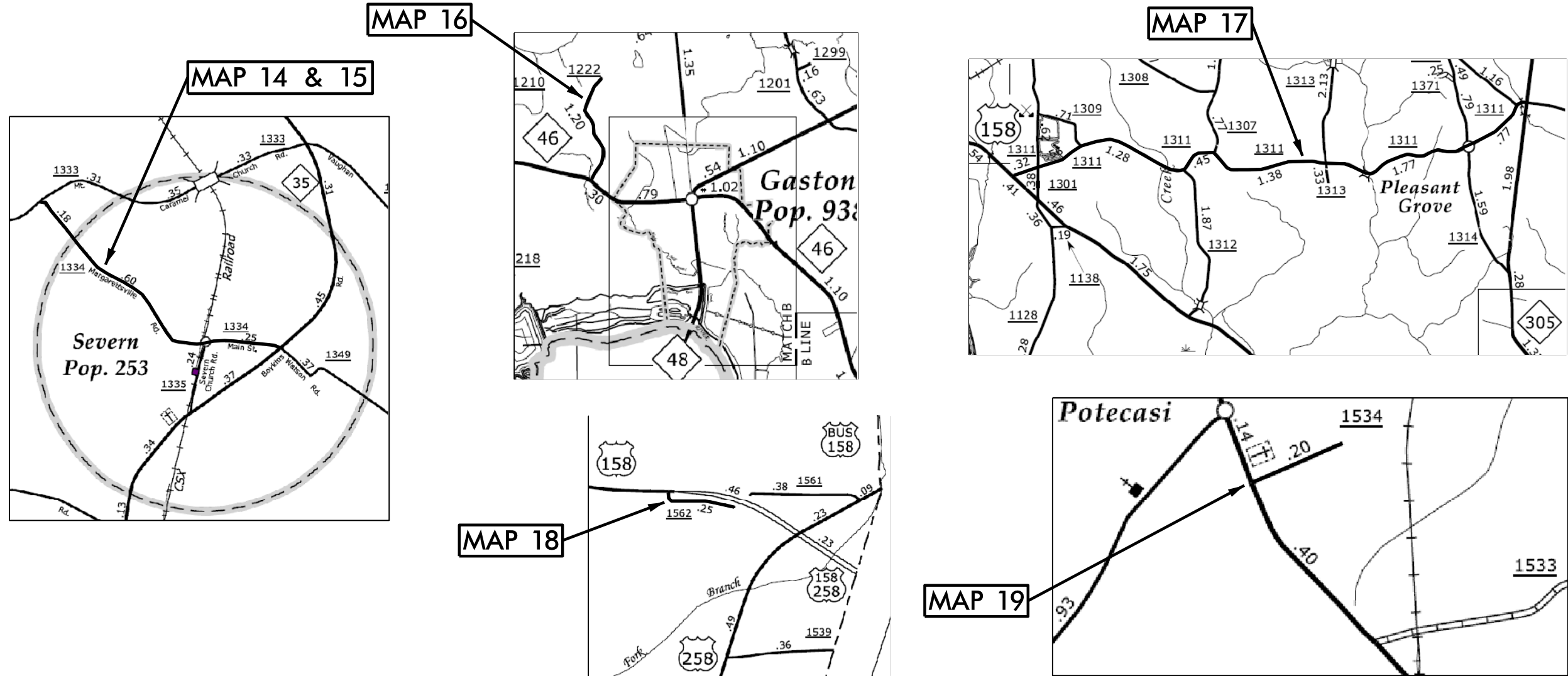
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NORTHAMPTON COUNTY

**LOCATION: MAP 14 SR 1334 FROM SR 1333 TO BEGIN C&G
MAP 15 SR 1334 FROM BEGIN C&G TO NC 35
MAP 16 SR 1222 FROM NC 46 TO END
MAP 17 SR 1311 FROM NC 305 TO US 158 (WEST SECTION)
MAP 18 SR 1562 FROM US 158 TO END
MAP 19 SR 1534 FROM NC 35 TO END**

TYPE OF WORK: MILLING & RESURFACING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.01.23.20081.1, ETC.	3	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2016CPT.01.23.20661.1		MAP 14 - 19	



NTS

PROJECT LENGTH	
LENGTH OF ROADWAY PROJECT MAP 14	= 0.55 MI.
LENGTH OF ROADWAY PROJECT MAP 15	= 0.47 MI.
LENGTH OF ROADWAY PROJECT MAP 16	= 1.18 MI.
LENGTH OF ROADWAY PROJECT MAP 17	= 6.43 MI.
LENGTH OF ROADWAY PROJECT MAP 18	= 0.24 MI.
LENGTH OF ROADWAY PROJECT MAP 19	= 0.18 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

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

05 JAN 2016 16:17 C:\CURRENT\AT\PROJECTS\DIVISION PROJECT WORKING FILES\District Two\DA00290 Milling & Resurfacing on Various Secondary Roads in Bertie, Hertford & Northampton Co. (2016 - 2017)\1 Pre-Bid Documents\Sh1 - 7 DA00290 Plans.sdg

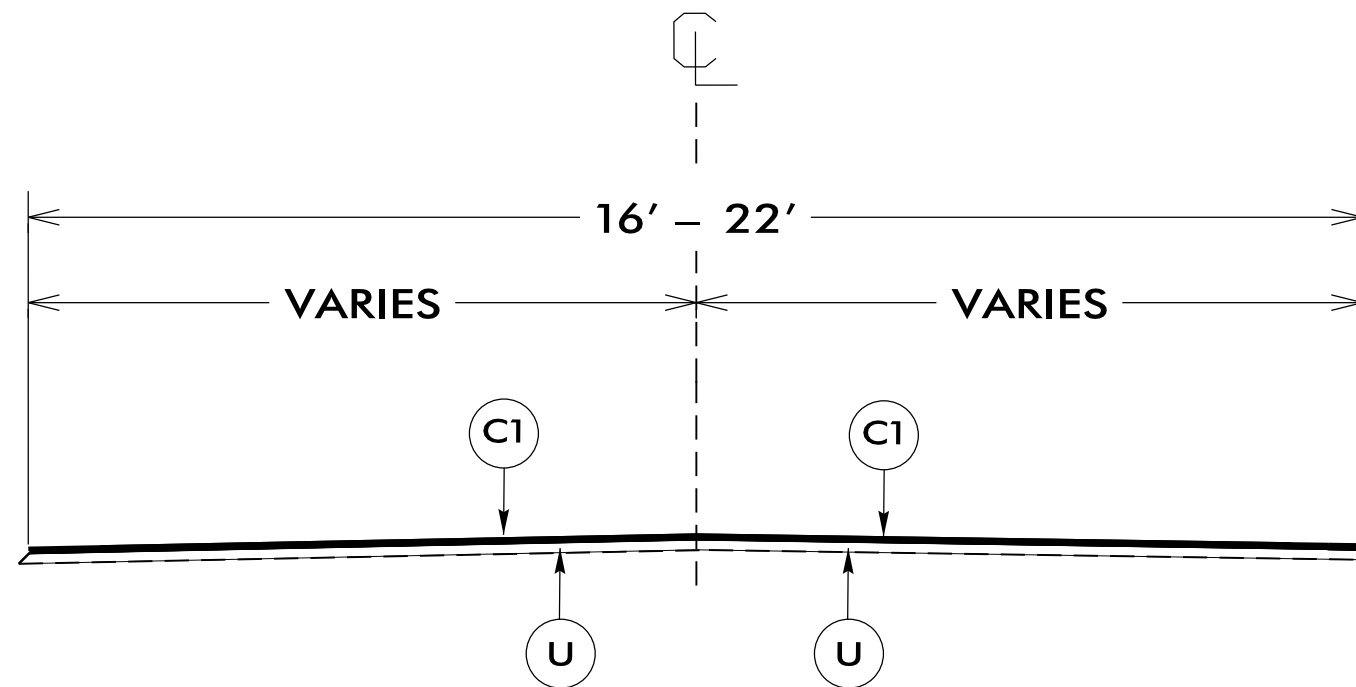
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.

PROJECT REFERENCE NO. 2016CPT.01.23.20081.1, ETC.	SHEET NO. 4
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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
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS
- *SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS
- *WARM MIX ASPHALT REQUIRED ON MAPS 1 & 2 (SR 1001), MAP 16 (SR1222), & MAP 17 (SR 1311)



TYPICAL SECTION NO. 1

USE WITH MAPS 1 - 12 & 16 - 19

NTS

05 JAN 2016 16:48 C:\Users\jpl\Documents\Projects\2016\2016-2017\1\1\Pre-Bid Documents\Sh1 - 7 DA00290 Plans.dgn

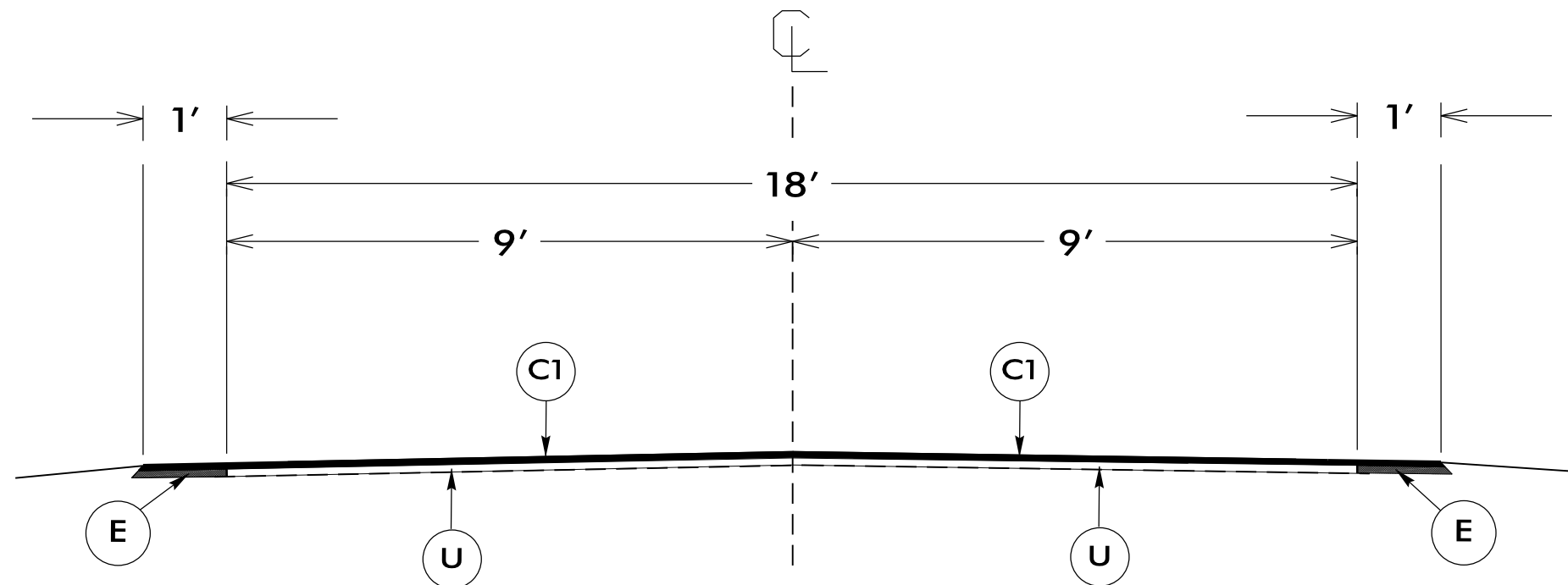
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
E	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.01.23.20081.1, ETC.	5

NOTES:

- *ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADI., OR AS DIRECTED BY THE ENGINEER
- *EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES
- *SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS
- *WARM MIX ASPHALT SURFACE COURSE REQUIRED ON MAP 13 (SR 1160)



TYPICAL SECTION NO. 2

USE WITH MAP 13

NTS

05 JAN 2016 16:19 C:\Users\p1\Documents\2016\Projects\2016\2016-2017\1\1\Pre-Bid Documents\Sht 1 - 7 DA00290 Plans.dgn

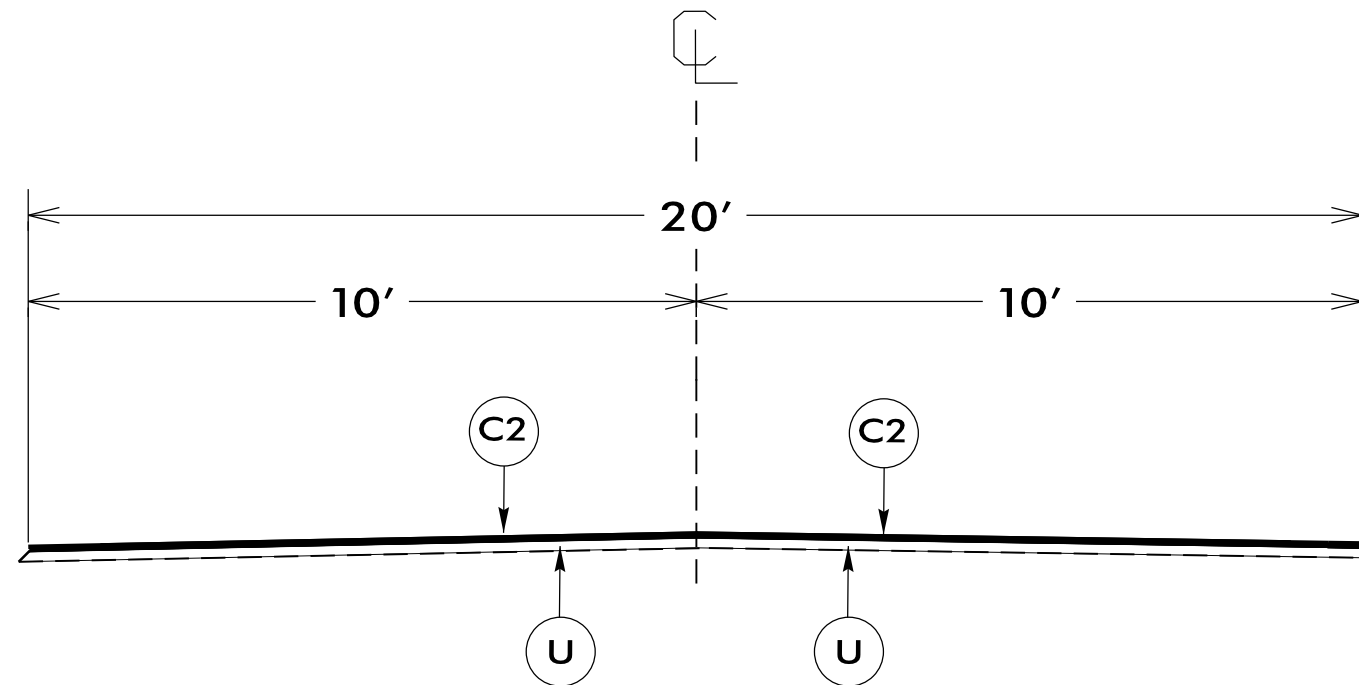
PAVEMENT SCHEDULE

C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U	EXISTING PAVEMENT.

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.01.23.20081.1, ETC.	6

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
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS
- *SHOULDER RECONSTRUCTION TO BE PERFORMED BY OTHERS



TYPICAL SECTION NO. 3

USE WITH MAP 14

NTS

05 JAN 2016 16:49 C:\Users\jgibson\Documents\Projects\2016\2016\DIVISION PROJECT WORKING FILES\District Two\DA00290 Milling & Resurfacing on Various Secondary Roads in Bertie, Hertford & Northampton Co. (2016 - 2017)\1 Pre-Bid Documents\Sht 1 - 7 DA00290 Plans.dgn

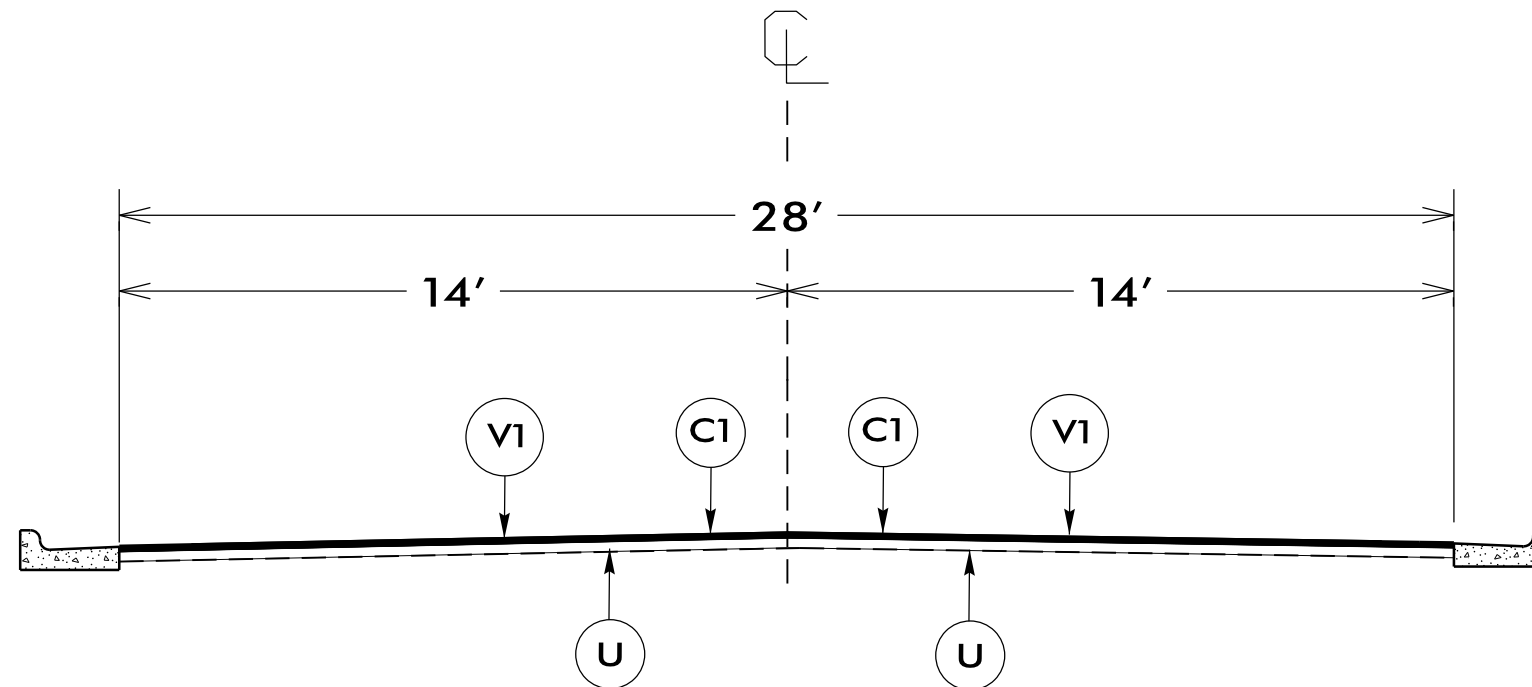
P A V E M E N T S C H E D U L E

C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING BITUMINOUS PAVEMENT. 1.5" IN DEPTH.
U	EXISTING PAVEMENT.

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.01.23.20081.1, ETC.	7

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
- *CONTRACTOR SHALL MILL 1.5" BELOW EXISTING EDGE OF CONC. CURB & GUTTER.
- *PAVEMENT MARKINGS TO BE PERFORMED BY OTHERS



TYPICAL SECTION NO. 4

USE WITH MAP 15

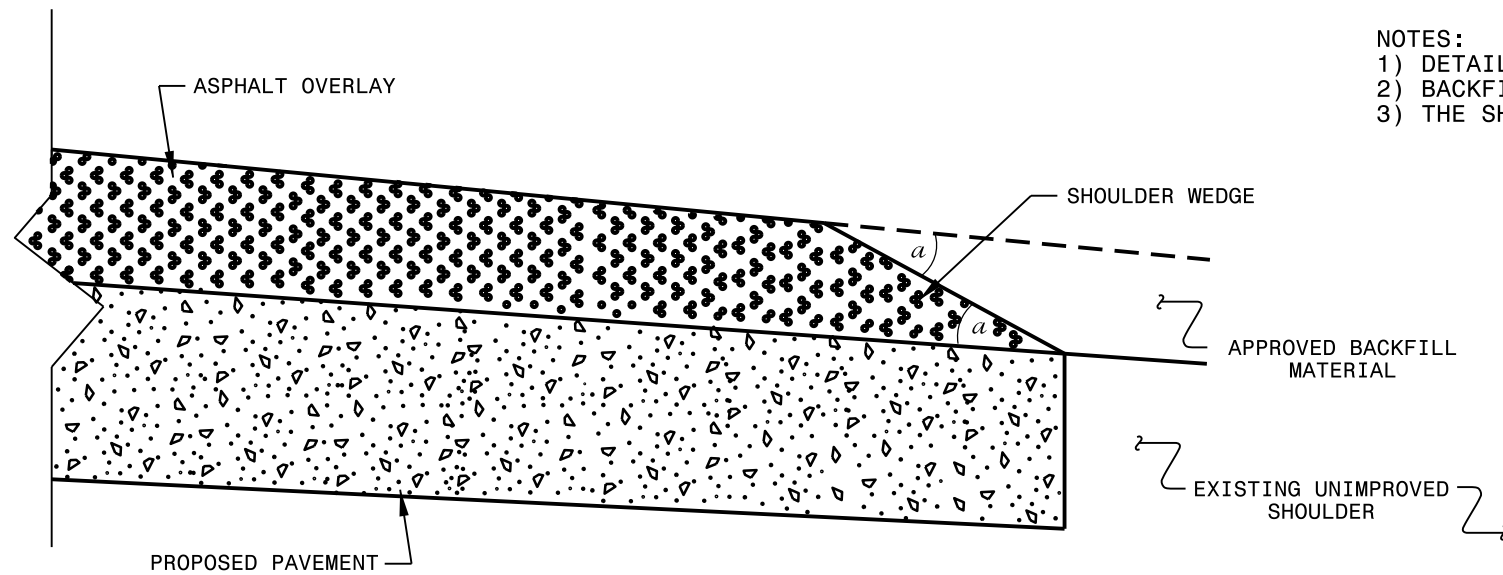
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PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.01.23.20081.1, ETC.	8	

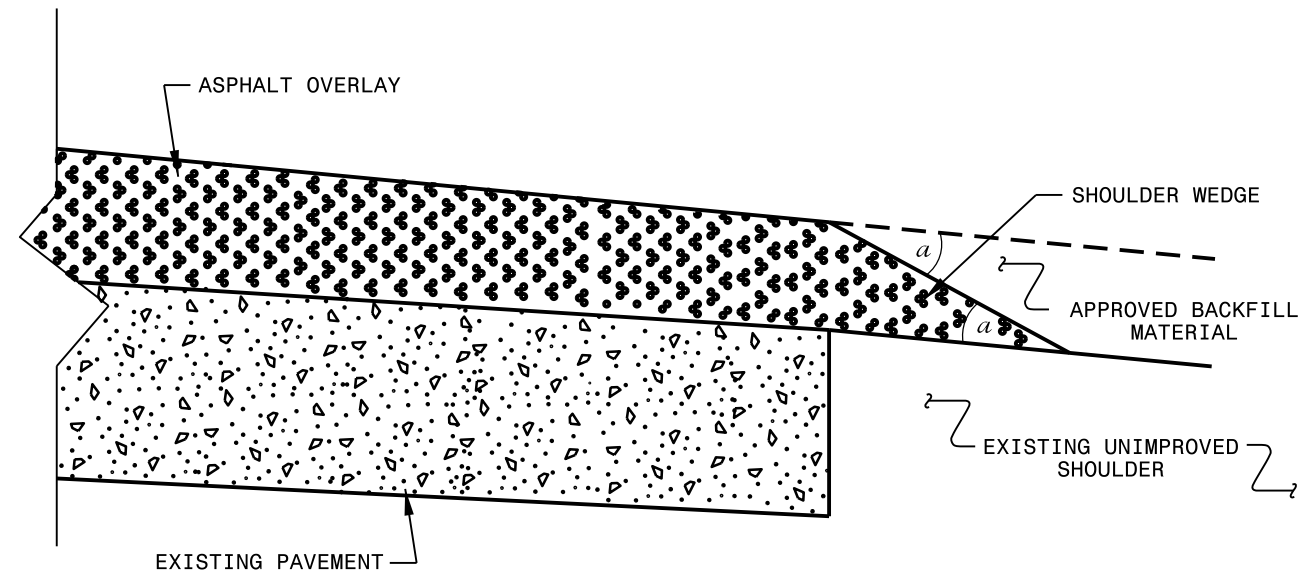
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	INCIDENTAL STONE BASE TONS	1½" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	RETROFIT EXISTING CURB RAMPS EA	ADJ. OF METER OR VALVE BOX EA	WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	TEMPORARY TRAFFIC CONTROL LS
2016CPT.01.23.20081.1	Bertie	1	SR 1001	FROM US 17 BUS TO PVMT CHANGE	1	2	2WU	NO	YES	0.14	21	1	-	-	-	-	-	140	9	-	-	60	1
2016CPT.01.23.20081.1	Bertie	2	SR 1001	FROM PVMT CHANGE NORTH OF 17 BYP TO SR 1366	1	2	2WU	NO	YES	2.77	22	*	-	-	-	-	-	2,521	169	-	-	75	*
2016CPT.01.23.20081.1	Bertie	3	SR 1306	FROM SR 1304 TO SR 1307	1	2	2WU	NO	NO	1.57	20	*	-	-	-	-	-	1,293	87	-	-	86	*
2016CPT.01.23.20081.1	Bertie	4	SR 1307	FROM SR 1310 TO SR 1312	1	2	2WU	NO	NO	1.80	20	*	-	-	-	-	-	1,528	102	-	-	86	*
2016CPT.01.23.20081.1	Bertie	5	SR 1377	FROM SR 1315 TO END	1	2	2WU	NO	NO	0.35	16	*	-	-	-	-	-	234	16	-	-	48	*
2016CPT.01.23.20461.1	Hertford	6	SR 1463	FROM SR 1409 TO END	1	2	2WU	NO	NO	0.15	18	*	-	-	-	-	-	114	8	-	-	32	*
2016CPT.01.23.20461.1	Hertford	7	SR 1465	FROM SR 1466 TO END	1	2	2WU	NO	NO	0.36	18	*	-	-	-	-	-	287	19	-	-	32	*
2016CPT.01.23.20461.1	Hertford	8	SR 1466	FROM SR 1409 TO SR 1409	1	2	2WU	NO	NO	0.43	17	*	-	-	-	-	-	313	21	-	-	32	*
2016CPT.01.23.20461.1	Hertford	9	SR 1467	FROM SR 1463 TO END	1	2	2WU	NO	NO	0.15	18	*	-	-	-	-	-	117	8	-	-	32	*
2016CPT.01.23.20461.1	Hertford	10	SR 1101	FROM SR 1105 TO AHOSKIE SCL	1	2	2WU	NO	NO	0.95	20	*	-	-	100	-	-	786	53	-	-	118	*
2016CPT.01.23.20461.1	Hertford	11	SR 1320	FROM US 258 TO SR 1315	1	2	2WU	NO	NO	0.73	20	*	-	-	-	-	-	590	40	-	-	86	*
2016CPT.01.23.20461.1	Hertford	12	SR 1308	FROM SR 1309 TO SR 1306	1	2	2WU	NO	NO	3.02	19	*	-	-	-	-	-	2,398	161	-	-	150	*
2016CPT.01.23.20461.1	Hertford	13	SR 1160	FROM NORTHAMPTON CL TO SR 1149	2	2	2WU	NO	YES	1.30	18	*	40	-	-	500	-	1,098	96	-	-	86	*
2016CPT.01.23.20661.1	Northampton	14	SR 1334	FROM SR 1333 TO BEGIN C&G	3	2	2WU	NO	NO	0.55	20	*	-	-	100	-	785	-	47	-	-	59	*
2016CPT.01.23.20661.1	Northampton	15	SR 1334	FROM BEGIN C&G TO NC 35	4	2	2WU	NO	NO	0.47	28	*	-	8,000	-	-	681	-	41	3	4	48	*
2016CPT.01.23.20661.1	Northampton	16	SR 1222	FROM NC 46 TO END	1	2	2WU	NO	YES	1.18	20	*	-	-	-	-	-	958	64	-	-	60	*
2016CPT.01.23.20661.1	Northampton	17	SR 1311	FROM NC 305 TO US 158 (West Section)	1	2	2WU	NO	YES	6.43	21	*	-	-	-	-	-	6,008	403	-	-	214	*
2016CPT.01.23.20661.1	Northampton	18	SR 1562	FROM US 158 TO END	1	2	2WU	NO	NO	0.24	20	*	-	-	-	-	-	200	13	-	-	32	*
2016CPT.01.23.20661.1	Northampton	19	SR 1534	FROM NC 35 TO END	1	2	2WU	NO	NO	0.18	20	*	-	-	-	-	-	149	10	-	-	32	*
TOTAL										22.77		1	40	8,000	200	500	1,466	18,734	1,367	3	4	1,368	1

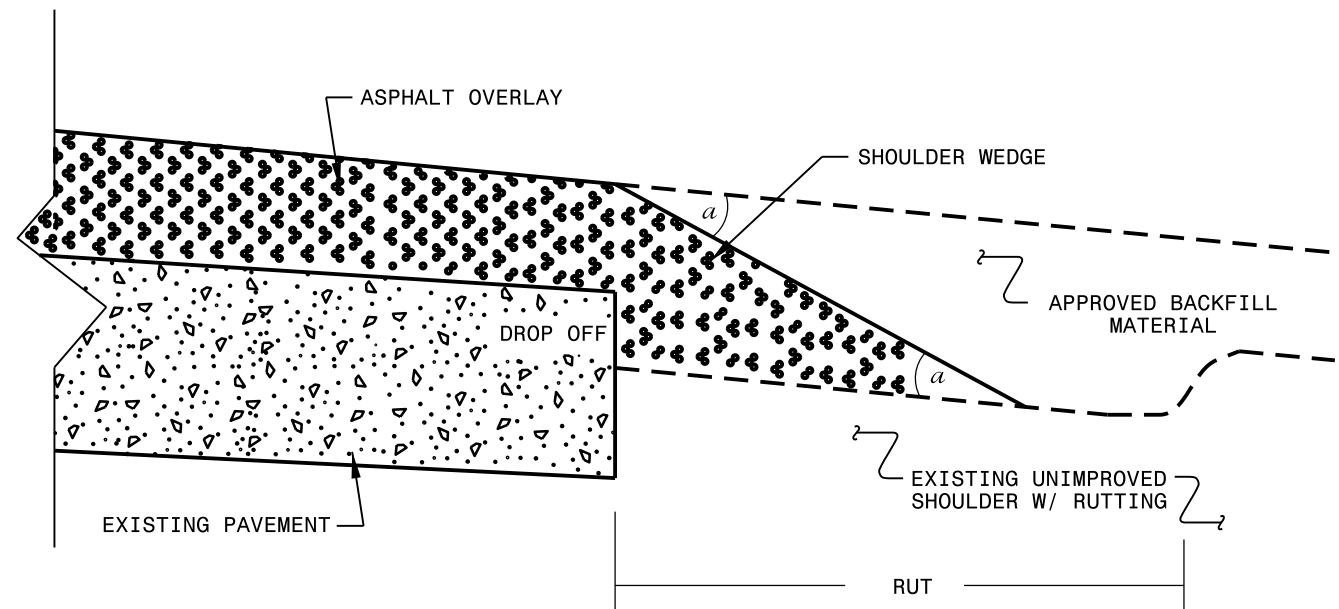
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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



SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ NO Widening)



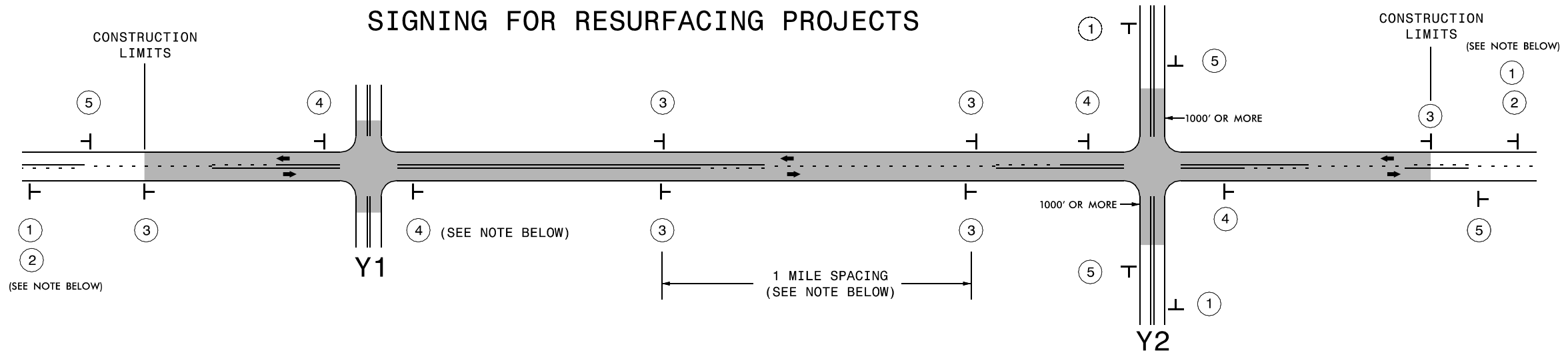
SHOULDER WEDGE DETAIL
(Resurfacing Adjacent to
Rutted Shoulder)

- 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.: susr/details/stand/shoulderwedgedetail.dgn			

SYSTEMS DESIGN
USER NAME

SIGNING FOR RESURFACING PROJECTS



LEGEND	
┃	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION		
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">①</div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">②</div> </div>		<p style="text-align: center;">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 style="text-align: center;">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.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> </div> <p style="text-align: center;">PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
③		
④		
⑤		

8/8/2013 8:51:10 AM \\ZTC\Resurfacing\2013\Documents\New_Procedures_05_09_2013\Resurfacing_AdvWarn_2Ln.dgn User:frmgarratt

**RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS**