

07-DEC-2015 08:55
 C:\CurrentProjects\DIVISION PROJECT WORKING FILES\District Three\DA00276 Hyde, Tyrrell & Washington Co. Resurfacing (2015 - 2016)\Pre-Bid Documents\DA00276_Plans.dgn
 09/08/99
 cslachta AT DICAD28235L

CONTRACT NO.: DA00276 WBS ELEMENT : 2016CPT.01.15.20481.1, ETC.

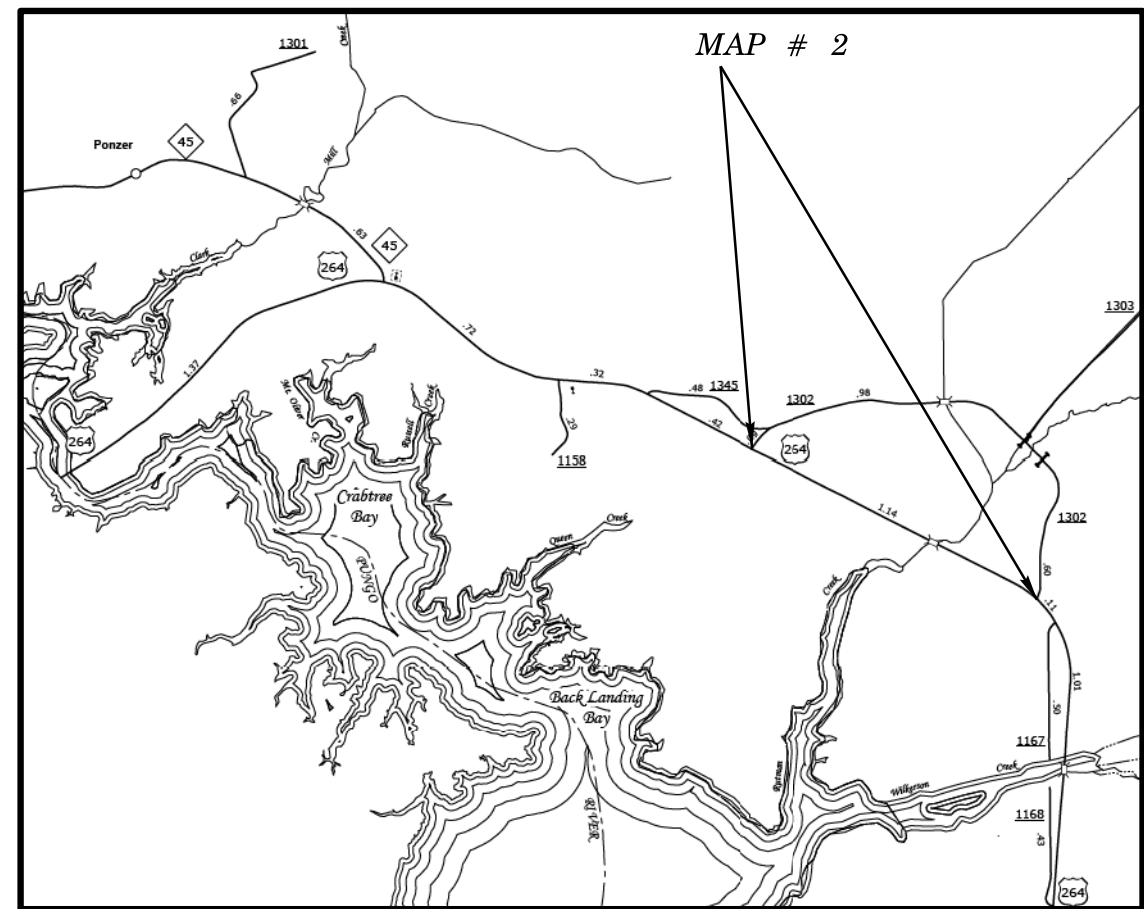
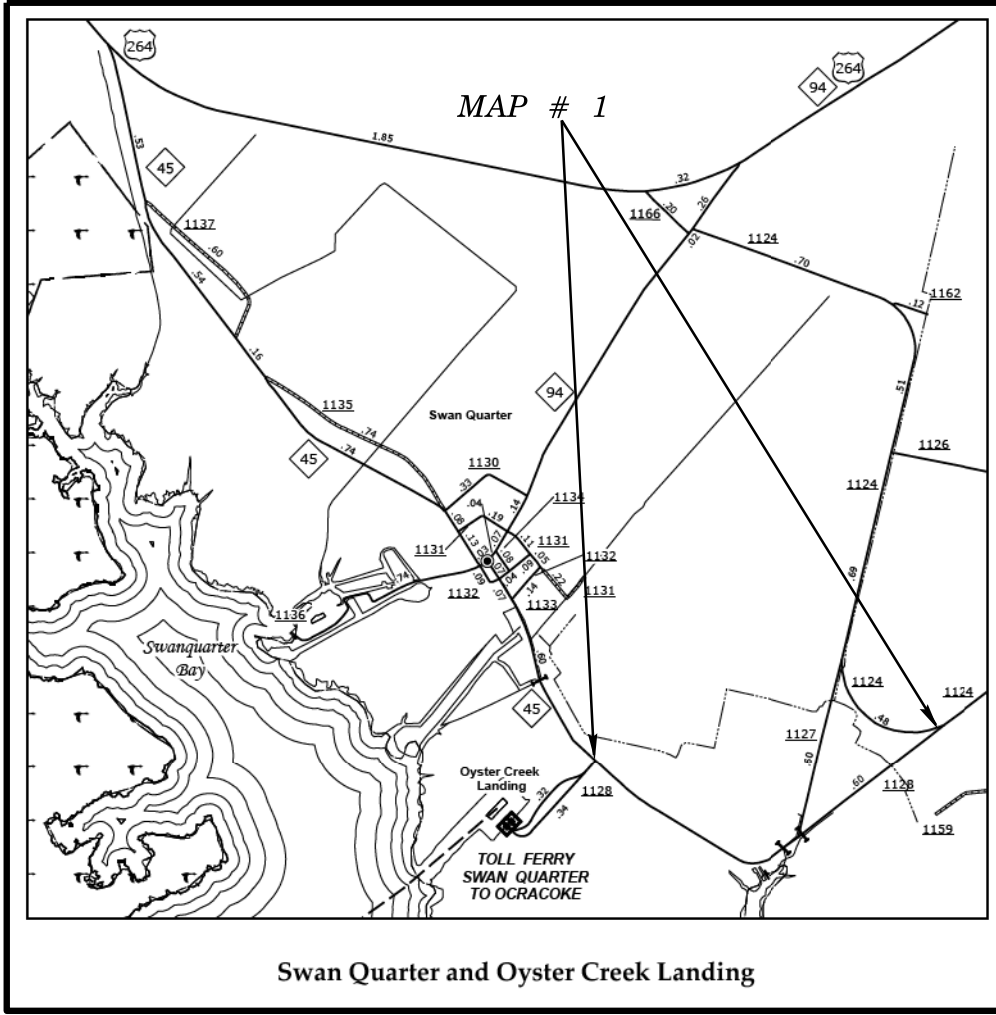


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HYDE COUNTY

LOCATION: MAP #1 SR 1128 FROM SR 1124 TO FERRY TERMINAL
MAP #2 SR 1302 FROM US 264 TO US 264
TYPE OF WORK: RESURFACING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.01.15.20481.1, ETC.	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

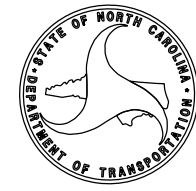


NOT TO SCALE

PROJECT LENGTH

 LENGTH OF ROADWAY PROJECT MAP#1 = 1.40 MILES
 LENGTH OF ROADWAY PROJECT MAP#2 = 1.70 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
 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


07-DEC-2015 12:28
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 cslachta

CONTRACT NO.: DA00276 WBS ELEMENT : 2016CPT.01.15.20481.1, ETC.

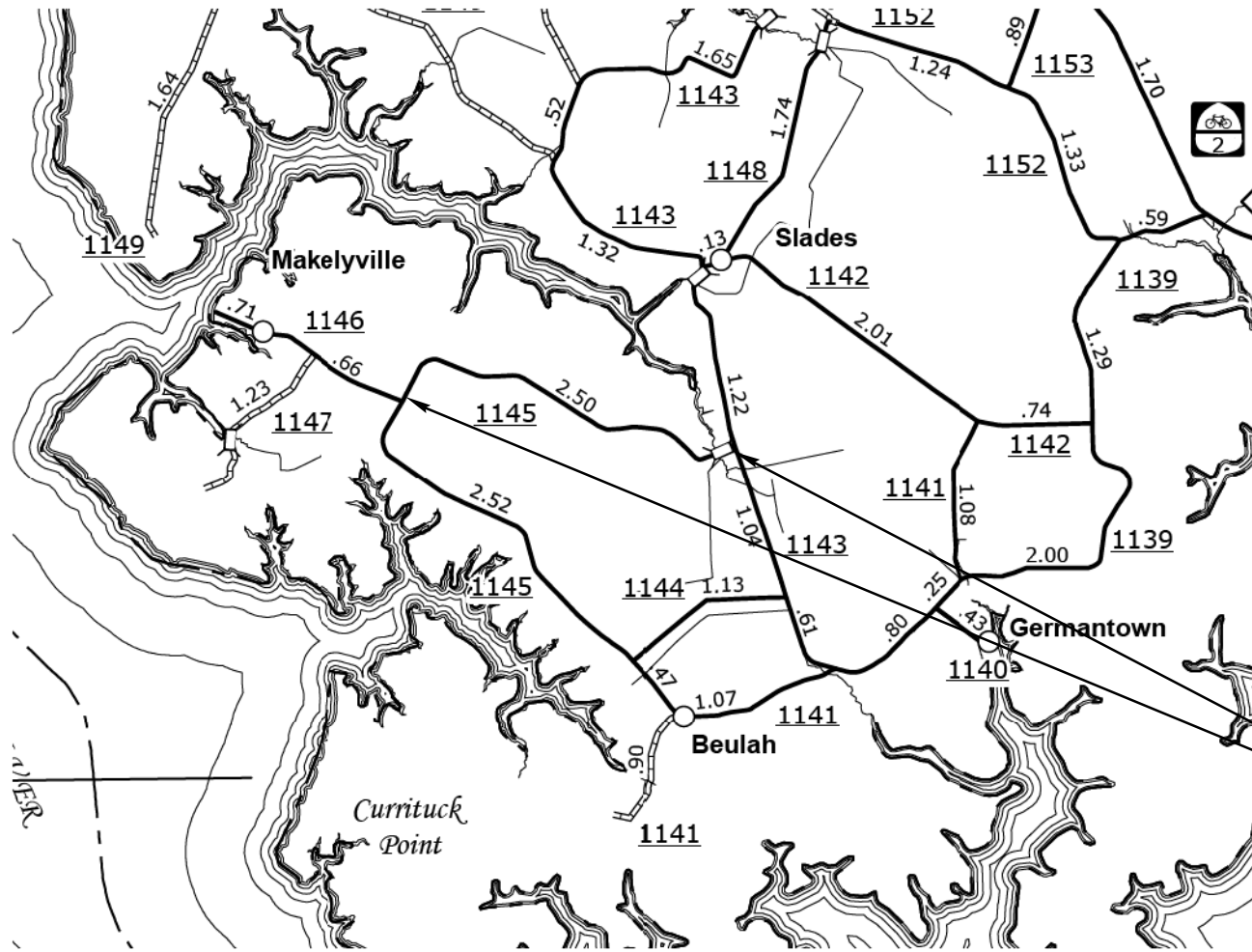


STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

HYDE COUNTY

LOCATION: MAP #3 SR 1145 FROM SR 1143 TO SR 1146

TYPE OF WORK: RESURFACING



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.01.15.20481.1, ETC.	2	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

NOT TO SCALE

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT MAP#3 = 2.50 MILES

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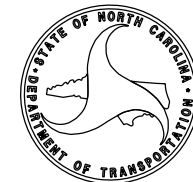
2012 STANDARD SPECIFICATIONS

LETTING DATE:

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

C.E. SLACHTA
 DIVISION PROPOSALS ENGINEER

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA



07-DEC-2015 12:30
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CONTRACT NO.: DA00276 WBS ELEMENT : 2016CPT.01.15.20481.1, ETC.



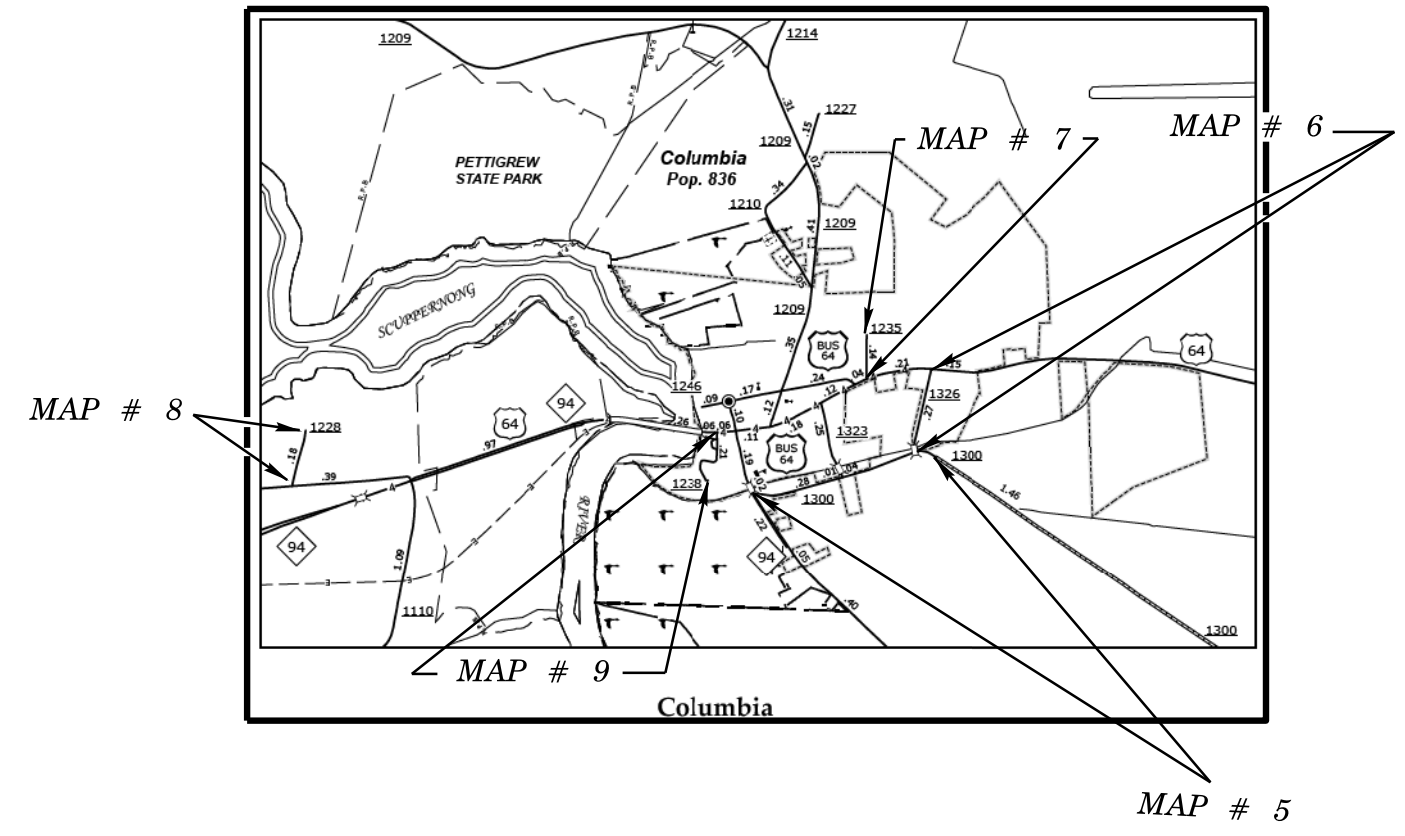
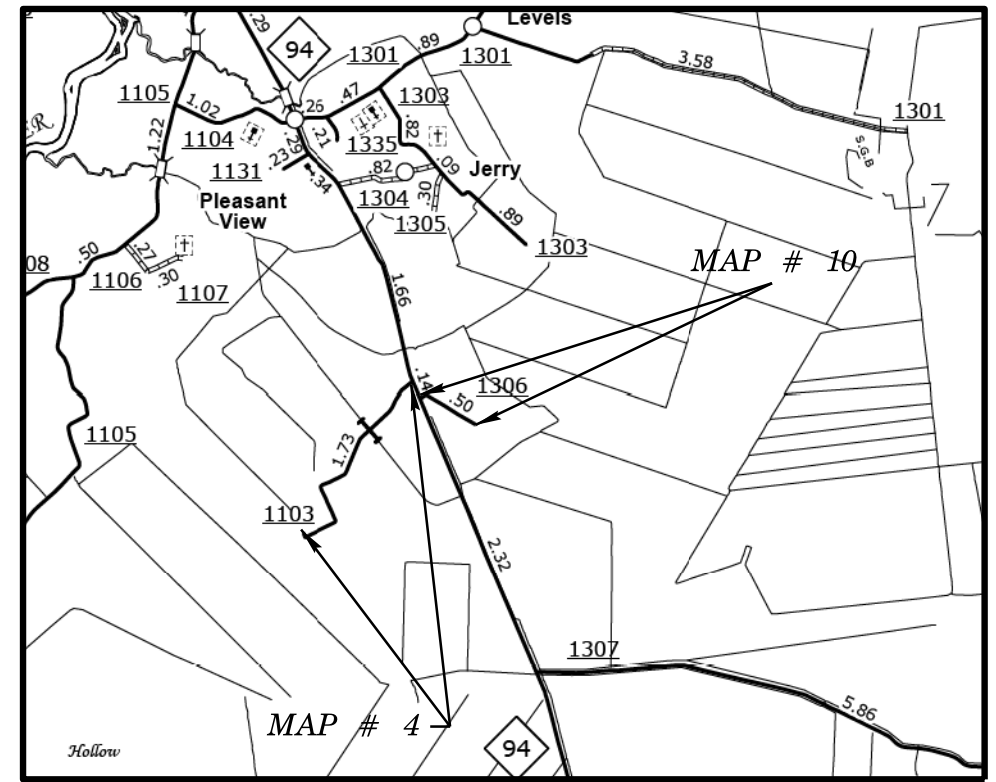
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

TYRRELL COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.01.15.20481.1 ETC.	3	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

**LOCATION: MAP #4 SRI103 FROM NC 94 TO DEAD END /MAP #5 SRI300 FROM NC 94 TO END MAINT.
 MAP #6 SRI326 FROM US 64 TO SR 1300 /MAP #7 SRI235 FROM US 64 TO END PAVEMENT
 MAP #8 SRI228 FROM NC 94 TO END MAINT. /MAP #9 SRI238 FROM US 64 TO END MAINT.
 MAP #10 SRI306 FROM NC 94 TO END PAVEMENT**

TYPE OF WORK: RESURFACING



NOT TO SCALE

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT MAP#4	= 1.68 MILES
LENGTH OF ROADWAY PROJECT MAP#5	= 0.53 MILES
LENGTH OF ROADWAY PROJECT MAP#6	= 0.30 MILES
LENGTH OF ROADWAY PROJECT MAP#7	= 0.14 MILES
LENGTH OF ROADWAY PROJECT MAP#8	= 0.20 MILES
LENGTH OF ROADWAY PROJECT MAP#9	= 0.22 MILES
LENGTH OF ROADWAY PROJECT MAP#10	= 0.54 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS

2012 STANDARD SPECIFICATIONS LETTING DATE: _____	W.B. HOBBS, P.E. DIVISION PROJECT MANAGER C.E. SLACHTA DIVISION PROPOSALS ENGINEER
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DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

07-DEC-2015 12:32
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CONTRACT NO. : DA00276 WBS ELEMENT : 2016CPT.01.15.20481.1, ETC.



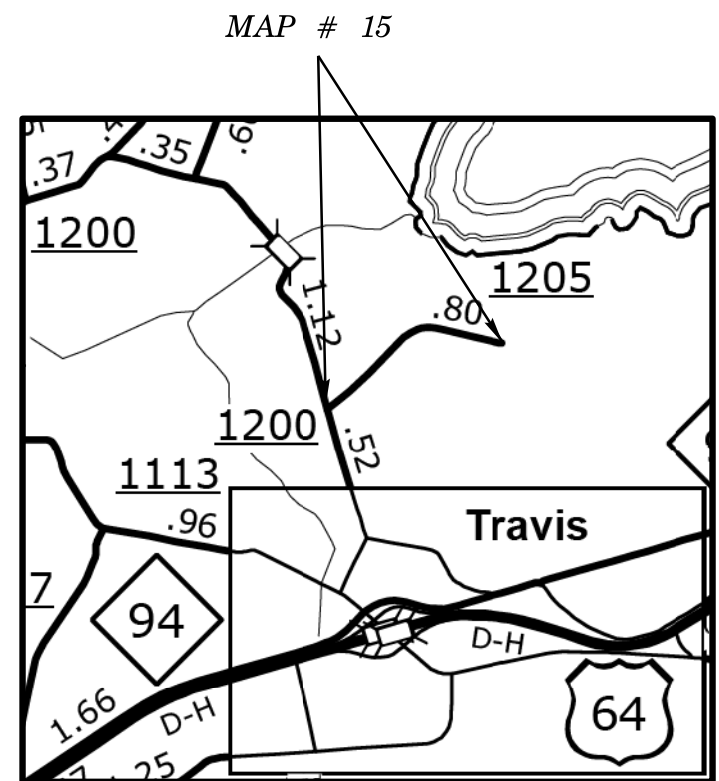
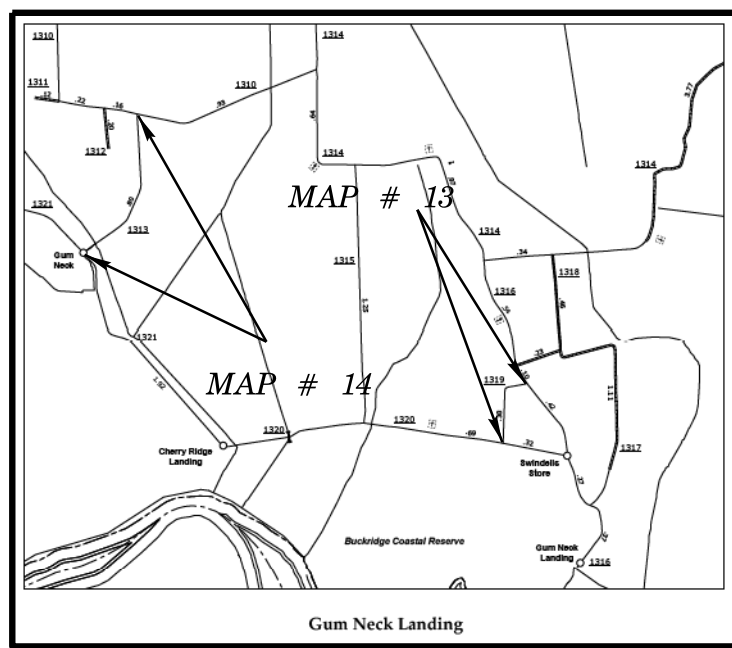
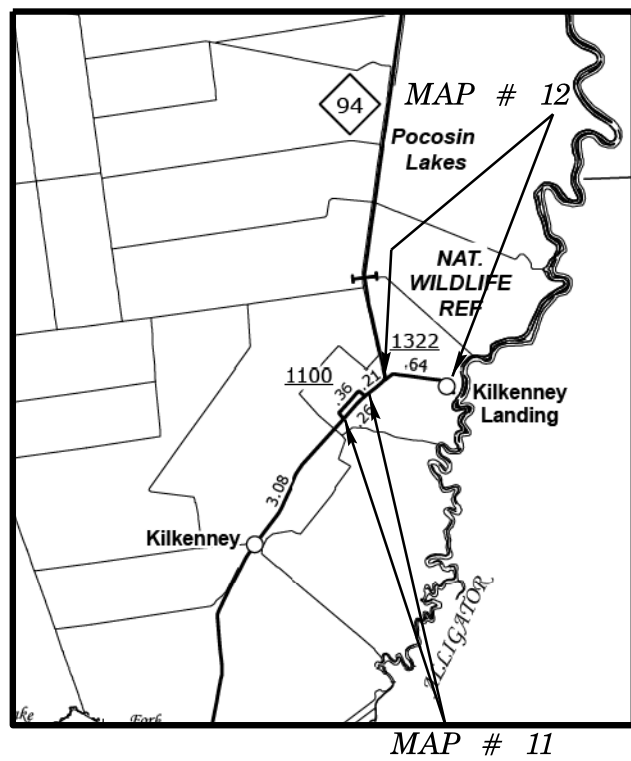
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

TYRRELL COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.01.15.20481.1, ETC	4	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

LOCATION: MAP #11 SR1100 FROM NC 94 TO NC 94 /MAP #12 SR1322 FROM NC 94 TO DEAD END
MAP #13 SR1319 FROM SR 1316 TO SR 1320 /MAP #14 SR1313 FROM SR 1310 TO SR 1321
MAP #14 SR1205 FROM SR 1200 TO DEAD END

TYPE OF WORK: RESURFACING



NOT TO SCALE

PROJECT LENGTH
LENGTH OF ROADWAY PROJECT MAP#11 = 0.40 MILES
LENGTH OF ROADWAY PROJECT MAP#12 = 0.70 MILES
LENGTH OF ROADWAY PROJECT MAP#13 = 0.38 MILES
LENGTH OF ROADWAY PROJECT MAP#14 = 0.80 MILES
LENGTH OF ROADWAY PROJECT MAP#15 = 0.80 MILES

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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

CONTRACT NO. : DA00276 WBS ELEMENT : 2016CPT.01.15.20481.1, ETC.

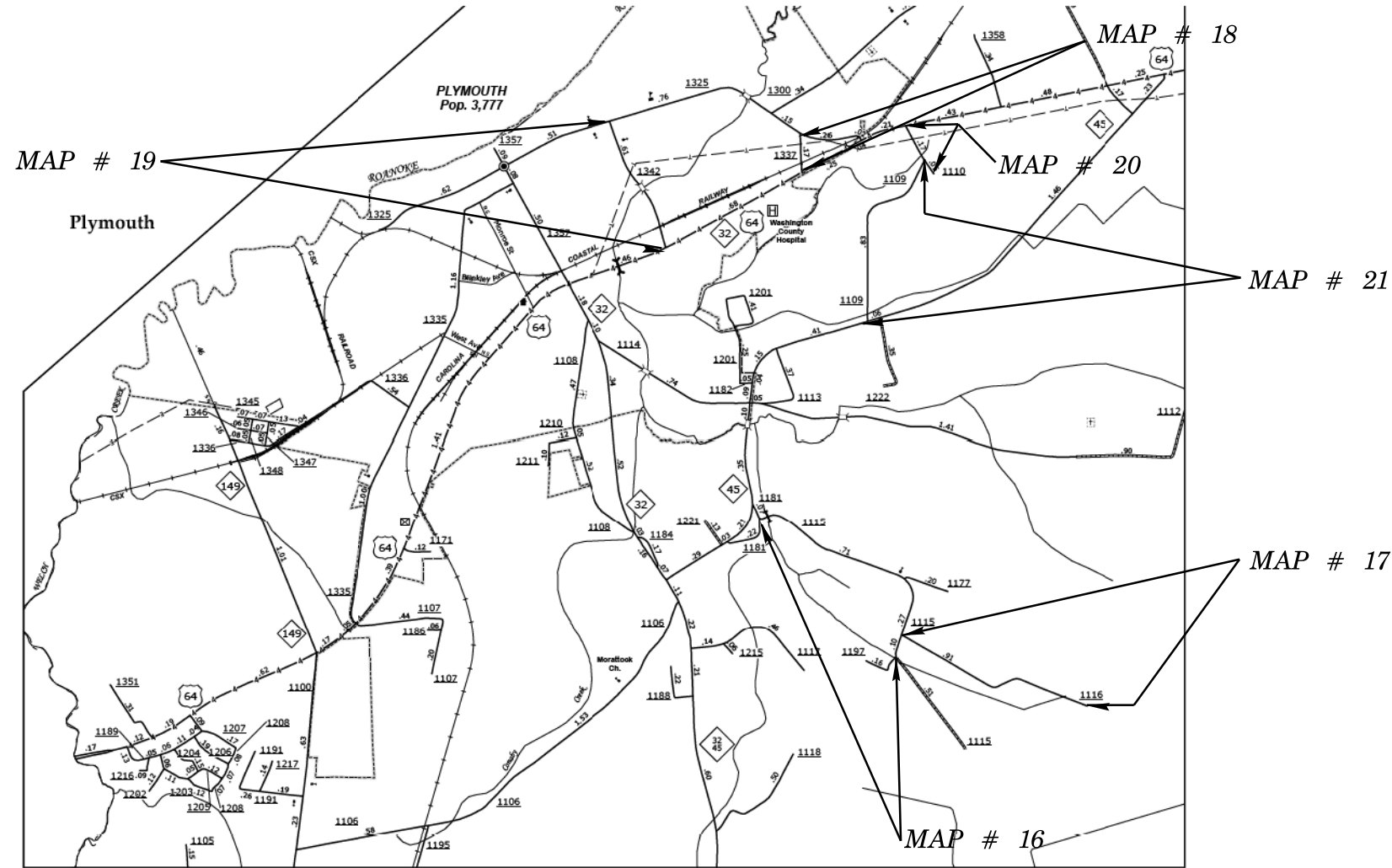


STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

WASHINGTON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.01.15.20481.1, ETC.	5	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

LOCATION: MAP #16 SR1115 FROM SR1181 TO END PAVEMENT /MAP #16 SR1117 FROM SR1115 TO END PAVEMENT
MAP #18 SR1337 FROM US 64 TO SR 1325 /MAP #19 SR1342 FROM US 64 TO SR1325
MAP #20 SR1110 FROM US 64 TO SR 1109 /MAP #21 SR1109 FROM SR1110 TO NC45
TYPE OF WORK: RESURFACING



NOT TO SCALE

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT MAP#16 =	1.20 MILES
LENGTH OF ROADWAY PROJECT MAP#17 =	1.00 MILES
LENGTH OF ROADWAY PROJECT MAP#18 =	0.17 MILES
LENGTH OF ROADWAY PROJECT MAP#19 =	0.61 MILES
LENGTH OF ROADWAY PROJECT MAP#20 =	0.17 MILES
LENGTH OF ROADWAY PROJECT MAP#21 =	0.84 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS

2012 STANDARD SPECIFICATIONS LETTING DATE: _____	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;"> W.B. HOBBS, P.E. <small>DIVISION PROJECT MANAGER</small> </td> </tr> <tr> <td style="text-align: center; border-bottom: 1px solid black;"> C.E. SLACHTA <small>DIVISION PROPOSALS ENGINEER</small> </td> </tr> </table>	W.B. HOBBS, P.E. <small>DIVISION PROJECT MANAGER</small>	C.E. SLACHTA <small>DIVISION PROPOSALS ENGINEER</small>
W.B. HOBBS, P.E. <small>DIVISION PROJECT MANAGER</small>			
C.E. SLACHTA <small>DIVISION PROPOSALS ENGINEER</small>			

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

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 cslachta

CONTRACT NO.: DA00276 WBS ELEMENT : 2016CPT.01.15.20481.1, ETC.

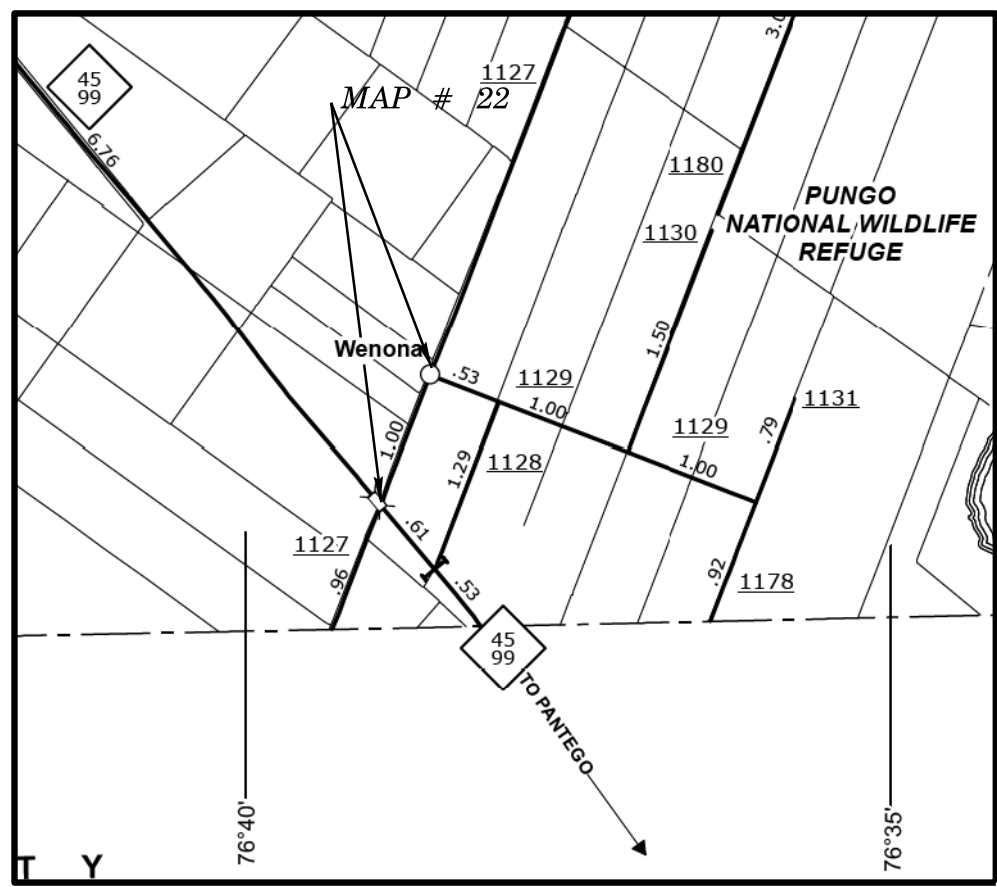
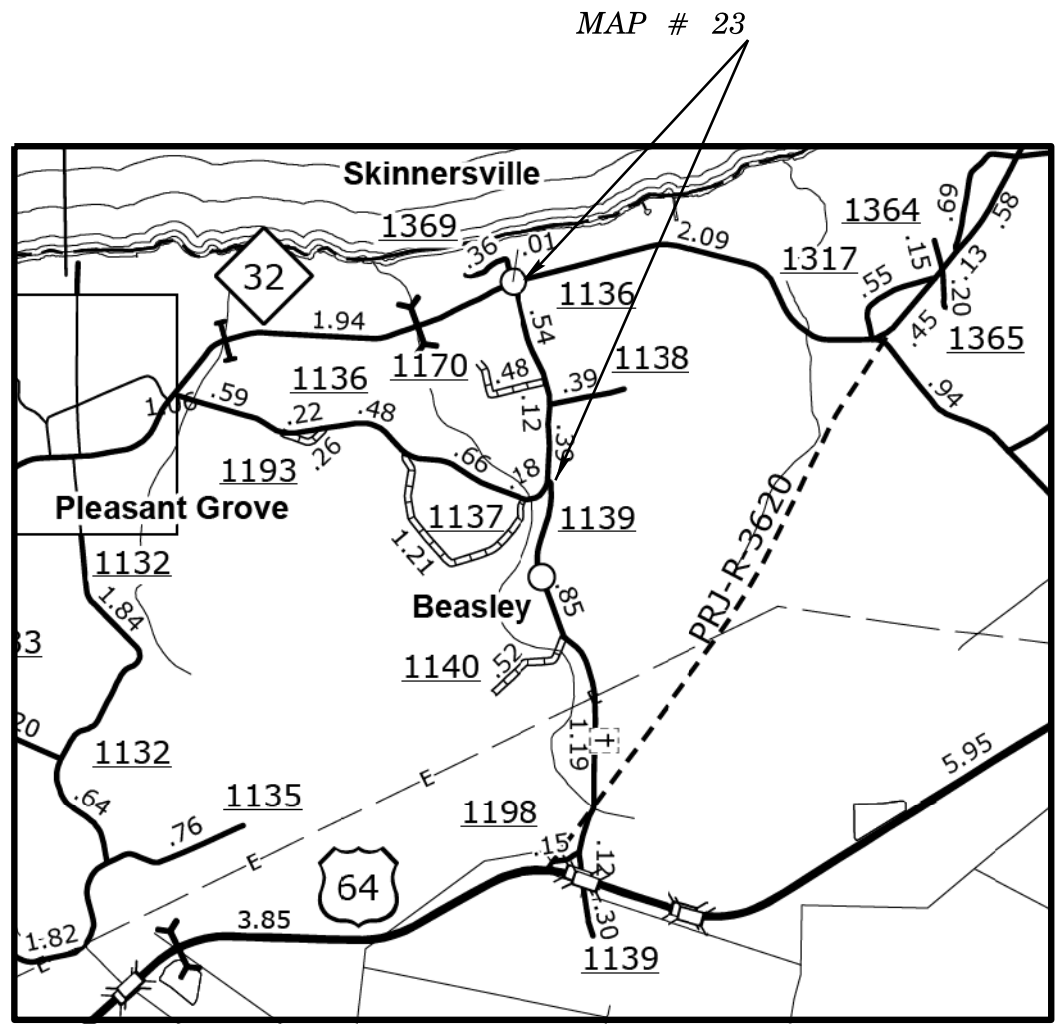


STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

WASHINGTON COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2016CPT.01.15.20481.1, ETC.	6	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

LOCATION: MAP #22 SR1127 FROM NC45 TO SR1129 /MAP #23 SR1136 FROM NC32 TO SR1139
TYPE OF WORK: RESURFACING



NOT TO SCALE

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT MAP#22 = 1.00 MILES
 LENGTH OF ROADWAY PROJECT MAP#23 = 1.00 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS

2012 STANDARD SPECIFICATIONS LETTING DATE: _____	W.B. HOBBS, P.E. DIVISION PROJECT MANAGER C.E. SLACHTA DIVISION PROPOSALS ENGINEER
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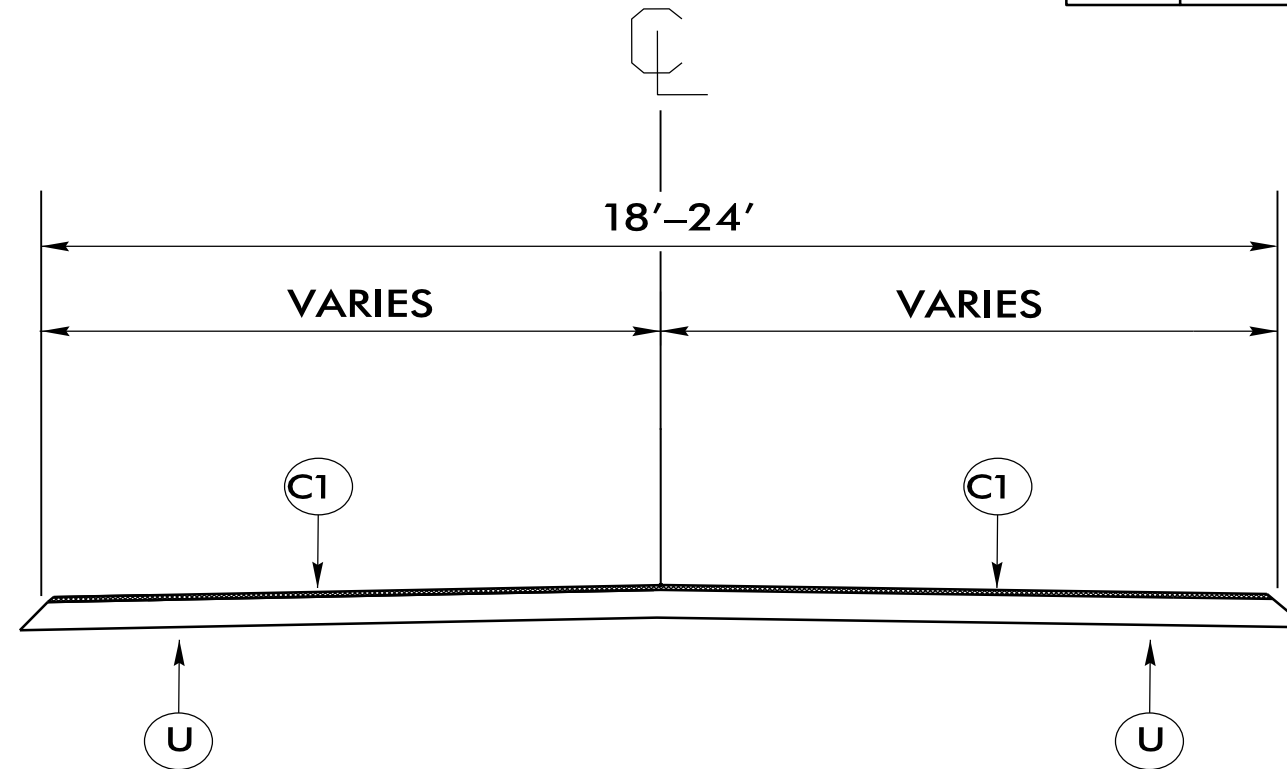
DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

NOTES:

1. ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII OR AS DIRECTED BY THE ENGINEER
2. EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES
3. SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS
4. PAVEMENT MARKINGS TO BE INSTALLED BY OTHERS

PROJECT REFERENCE NO.	SHEET NO.
2016CPT.01.15.20481.1, ETC.	7

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
U	EXISTING PAVEMENT.



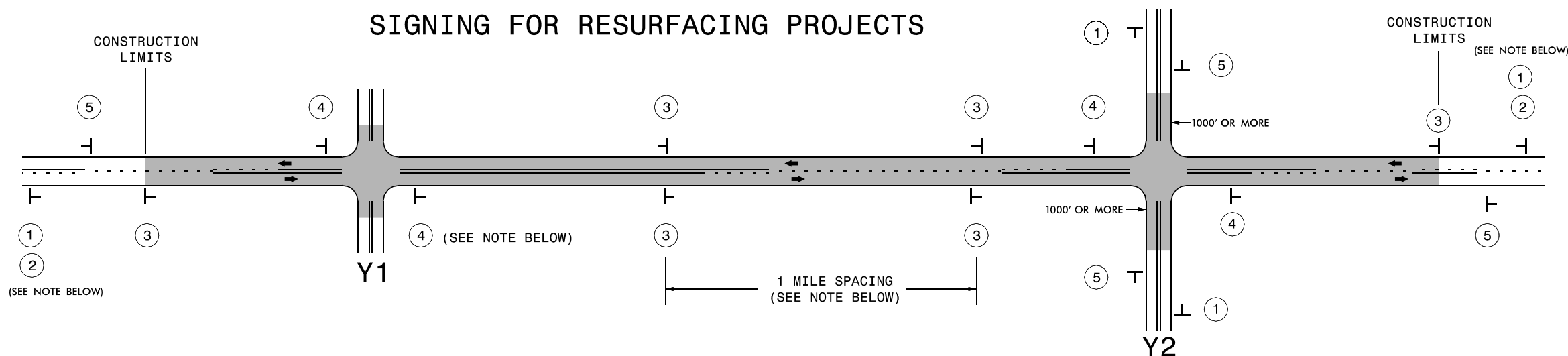
TYPICAL SECTION #1
USE WITH MAPS 1 – 22

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.01.15.20481.1, 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	WIDTH	MOBILIZATION	SURFACE COURSE, SF9.5A	ASPHALT BINDER FOR PLANT MIX	TEMPORARY TRAFFIC CONTROL
										MI	FT	LUMP SUM	TONS	TONS	LUMP SUM
2016CPT.01.15.20481.1	Hyde	1	SR 1128	FROM SR 1124 TO FERRY TERMINAL	1	2	2WU	NO	NO	1.4	18	1	1,351	91	1
2016CPT.01.15.20481.1	Hyde	2	SR 1302	FROM US 264 TO US 264	1	2	2WU	NO	NO	1.7	18	*	1,640	110	*
2016CPT.01.15.20481.1	Hyde	3	SR 1145	FROM SR 1143 TO SR 1146	1	2	2WU	NO	NO	2.5	18	*	2,412	162	*
2016CPT.01.15.20891.1	Tyrrell	4	SR 1103	FROM NC 94 TO DEAD END	1	2	2WU	NO	NO	1.68	20	*	1,800	121	*
2016CPT.01.15.20891.1	Tyrrell	5	SR 1300	FROM NC 94 TO END MAINT.	1	2	2WU	NO	NO	0.53	18	*	511	34	*
2016CPT.01.15.20891.1	Tyrrell	6	SR 1326	FROM US 64 TO SR 1300	1	2	2WU	NO	NO	0.3	20	*	321	22	*
2016CPT.01.15.20891.1	Tyrrell	7	SR 1235	FROM US 64 TO END PAVEMENT	1	2	2WU	NO	NO	0.14	20	*	150	10	*
2016CPT.01.15.20891.1	Tyrrell	8	SR 1228	FROM NC 94 TO END MAINTENANCE	1	2	2WU	NO	NO	0.2	18	*	193	13	*
2016CPT.01.15.20891.1	Tyrrell	9	SR 1238	FROM US 64 TO END MAINTENANCE	1	2	2WU	NO	NO	0.22	20	*	236	16	*
2016CPT.01.15.20891.1	Tyrrell	10	SR1306	FROM NC 94 TO DEAD END	1	2	2WU	NO	NO	0.54	18	*	521	35	*
2016CPT.01.15.20891.1	Tyrrell	11	SR 1100	FROM NC 94 TO NC 94	1	2	2WU	NO	NO	0.4	18	*	386	26	*
2016CPT.01.15.20891.1	Tyrrell	12	SR 1322	FROM NC 94 TO DEAD END	1	2	2WU	NO	NO	0.7	18	*	614	41	*
2016CPT.01.15.20891.1	Tyrrell	13	SR 1319	FROM SR 1316 TO SR 1320	1	2	2WU	NO	NO	0.38	20	*	407	27	*
2016CPT.01.15.20891.1	Tyrrell	14	SR 1313	FROM SR 1310 To SR 1321	1	2	2WU	NO	NO	0.8	18	*	857	57	*
2016CPT.01.15.20891.1	Tyrrell	15	SR 1205	FROM SR 1200 TO DEAD END	1	2	2WD	NO	NO	0.81	20	*	868	58	*
2016CPT.01.15.20941.1	Washington	16	SR 1115	FROM SR 1181 TO END PAVEMENT	1	2	2WU	NO	NO	1.2	18	*	1,158	78	*
2016CPT.01.15.20941.1	Washington	17	SR 1116	FROM SR 1115 TO END PAVEMENT	1	2	2WU	NO	NO	1	20	*	1,071	72	*
2016CPT.01.15.20941.1	Washington	18	SR 1337	FROM US 64 TO SR 1325	1	2	2WU	NO	NO	0.17	22	*	200	13	*
2016CPT.01.15.20941.1	Washington	19	SR 1342	FROM US 64 TO SR 1325	1	2	2WU	NO	NO	0.61	24	*	783	52	*
2016CPT.01.15.20941.1	Washington	20	SR 1110	FROM US 64 TO SR 1109	1	2	2WU	NO	NO	0.17	18	*	164	11	*
2016CPT.01.15.20941.1	Washington	21	SR 1109	FROM SR 1110 TO NC 45	1	2	2WU	NO	NO	0.84	18	*	811	54	*
2016CPT.01.15.20941.1	Washington	22	SR 1127	FROM NC 45 TO SR 1129	1	2	2WU	NO	NO	1	20	*	1,071	72	*
2016CPT.01.15.20941.1	Washington	23	SR 1136	FROM NC 32 TO SR 1139	1	2	2WU	NO	NO	1	18	*	965	65	*
GRAND TOTAL										18.29		1	18,490	1,240	1

SIGNING FOR RESURFACING PROJECTS



LEGEND	
⊥	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

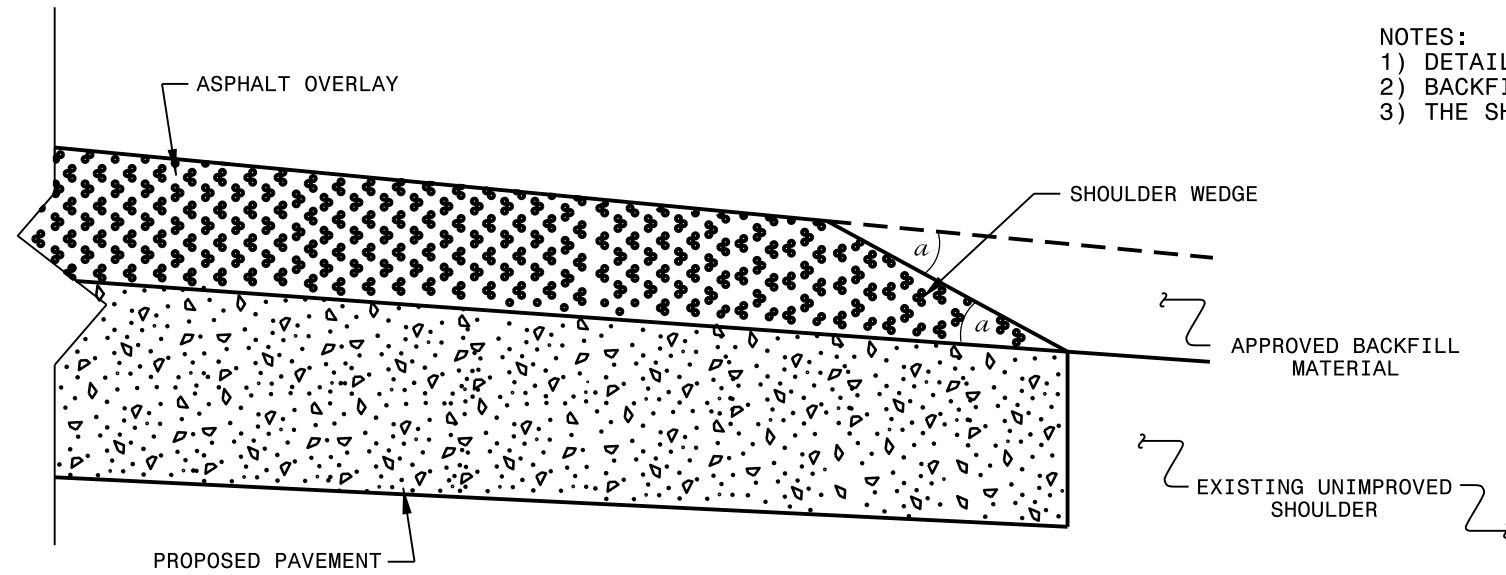
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	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.	<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, 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;"> <div style="text-align: center;"> W20-1 48" X 48" </div> <div style="text-align: center;"> W20-7 A 48" X 48" </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	②	 W7-3aP 24" X 18"	#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)	
	③	 SP 13107 48" X 48"	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.	
④	 SP 13106 48" X 48"	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	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		

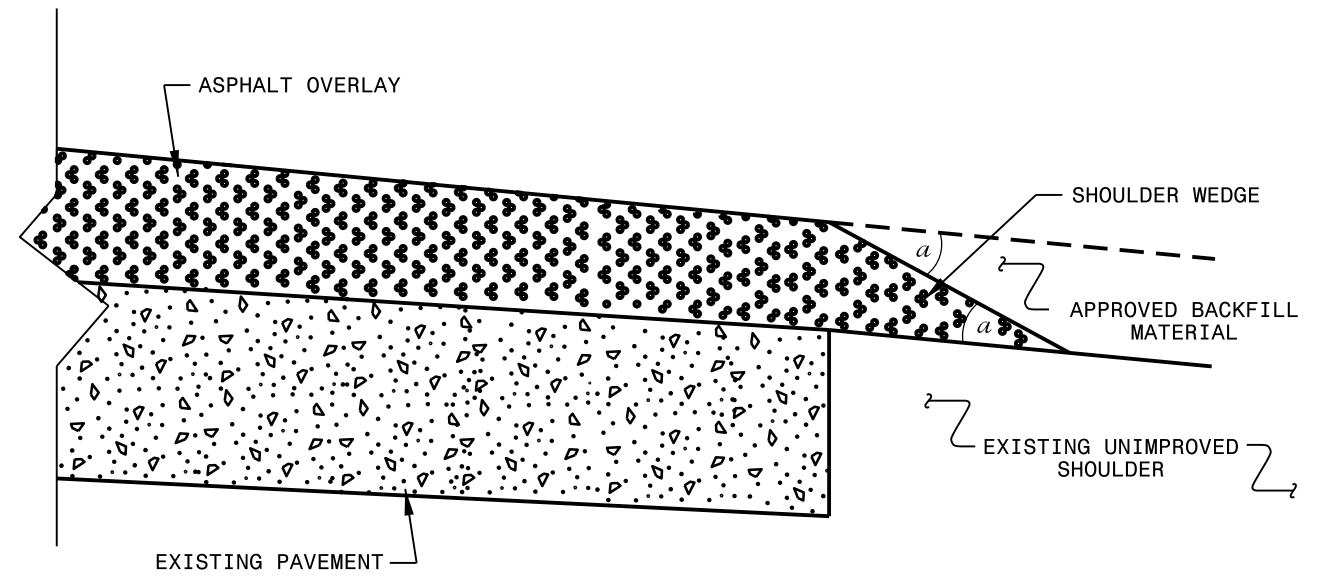


RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS

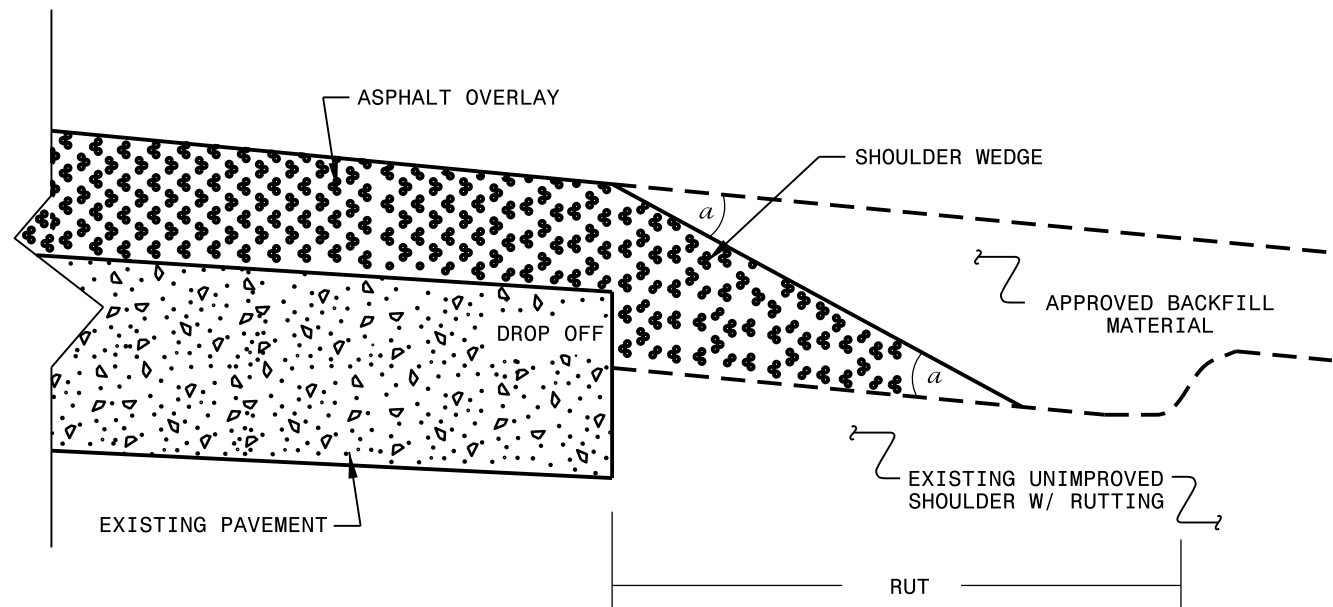
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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