

09/08/99

**WBS NO: 3CR.10311.134, Etc.**

**CONTRACT:**

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**DUPLIN & ONSLOW COUNTIES**

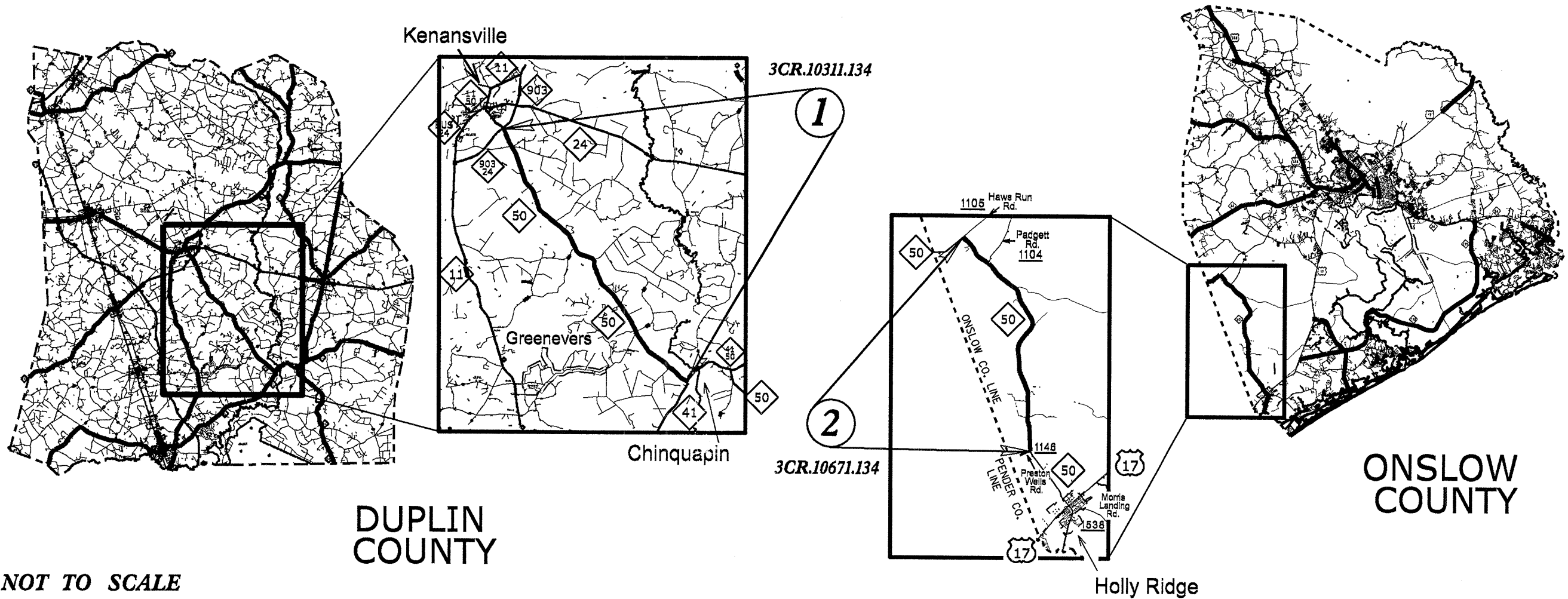


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	3CR.10311.134, Etc.	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

SHEET NUMBER	SHEET
1 & 2	INDEX OF SHEETS & TITLE SHEETS
3 - 5	PAVEMENT SCHEDULE, TYPICAL SECTIONS, MICRO-SURFACING DETAIL AND PAVEMENT DETAIL
6 & 7	SUMMARY OF QUANTITIES

**LOCATION:** DUPLIN CO. - 1 SECTION OF NC 50  
ONSLOW CO. - 1 SECTION OF NC 50

**DESCRIPTION:** INCIDENTAL MILLING, RUT FILLING, MICRO-SURFACING TYPE III, REMOVAL OF PAVEMENT MARKINGS, THERMOPLASTIC PAVEMENT MARKINGS & SNOWPLOWABLE MARKERS, ETC.



NOT TO SCALE

DUPLIN COUNTY

ONSLOW COUNTY

**PROJECT LENGTH**

3CR.10311.134 MAP NO. 1 = 11.34 MI.  
3CR.10671.134 MAP NO. 2 = 9.74 MI.  
3CR.10711.134:  
MAP NO. 3 = 4.74 MI.  
(NBL) MAP NO. 4 = 9.67 MI.  
(SBL) MAP NO. 5 = 9.65 MI.  
MAP NO. 6 = 0.06 MI.  
3CR.10711.134 TOTAL = 14.47 MI.

**TOTAL PROJECT LENGTH = 35.55 MI.**

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
5501 Barbados Blvd., Castle Hayne, NC 28429

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:  
NOVEMBER 2012

HYDRAULICS ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

ROADWAY DESIGN  
TECHNICIAN

SIGNATURE: \_\_\_\_\_ MPK

SIGNATURE: \_\_\_\_\_

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

\$\$\$\$\$SYSTIME\$\$\$\$\$  
\$\$\$\$\$CDGN\$\$\$\$\$  
\$\$\$\$\$SERNAME\$\$\$\$\$

09/08/09

WBS NO: 3CR.10311.134, Etc.

CONTRACT:

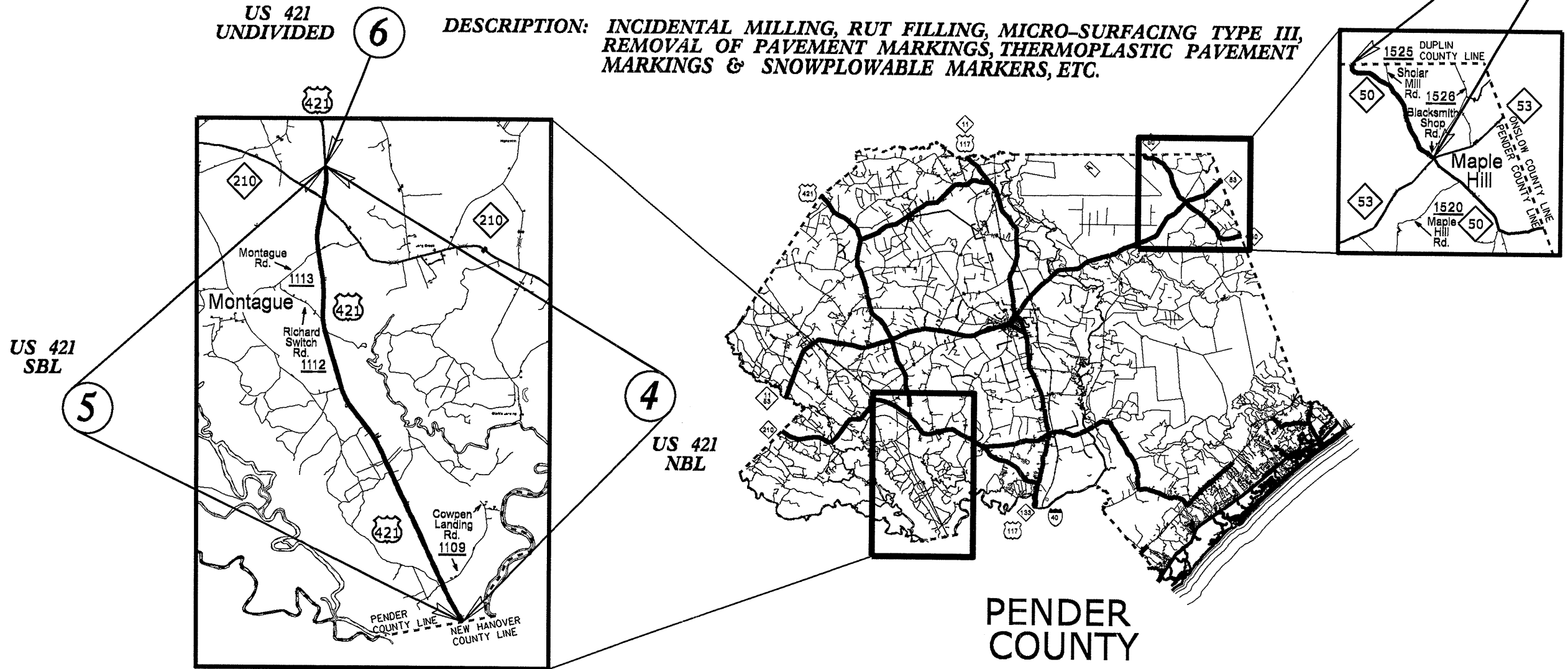
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**PENDER COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	3CR.10311.134, Etc.	2	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

LOCATION: PENDER CO. - 1 SECTION OF NC 50  
3 SECTIONS OF US 421 NBL, SBL & UNDIVIDED

DESCRIPTION: INCIDENTAL MILLING, RUT FILLING, MICRO-SURFACING TYPE III,  
REMOVAL OF PAVEMENT MARKINGS, THERMOPLASTIC PAVEMENT  
MARKINGS & SNOWPLOWABLE MARKERS, ETC.



NOT TO SCALE

**PROJECT LENGTH**

3CR.10311.134 MAP NO. 1 = 11.34 MI.  
 3CR.10671.134 MAP NO. 2 = 9.74 MI.  
 3CR.10711.134:  
 MAP NO. 3 = 4.74 MI.  
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 MAP NO. 6 = 0.06 MI.  
 3CR.10711.134 TOTAL = 14.47 MI.

**TOTAL PROJECT LENGTH = 35.55 MI.**

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 5501 Barbados Blvd., Castle Hayne, NC 28429

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:  
NOVEMBER 2012

HYDRAULICS ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

ROADWAY DESIGN  
TECHNICIAN

SIGNATURE: \_\_\_\_\_ MPK

SIGNATURE: \_\_\_\_\_

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

\$\$\$\$\$SYTIME\$\$\$\$\$  
\$\$\$\$\$DDGN\$\$\$\$\$  
\$\$\$\$\$USERNAME\$\$\$\$\$







PROJECT NO.	SHEET NO.	TOTAL NO.
3CR.10311.134, ETC.	6	

### SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	AGGREGATE, TYPE III TON	INC. MILLING SY	LATEX MODIFIED EMULSION GAL	LATEX MODIFIED MICRO-SURFACING, TYPE III SY	
3CR.10311.134	Duplin	1	NC 50	MICROSURFACING FROM NC 41 TO 0.05 MI. SE OF NC 24 (10 -Y- LINES)		NO				775		7,500	
		"	"	FULL WIDTH 22' (MP 10.82 - MP 15.78, MP 15.85 - MP 22.03)	1	NO	11.14	22				143,780	
		"	"	TAPERS 22'-27' (MP 15.78 - MP 15.81, MP 15.83 - MP 15.85)	1	NO	0.05	24.5				719	
		"	"	FULL WIDTH 27' (MP 15.81 - MP 15.83)	1	NO	0.02	27				317	
		"	"	TAPER 22'-51' (MP 22.03 - MP 22.13)	1	NO	0.1	36.5				2,141	
		"	"	FULL WIDTH 51' (MP 22.13 - MP 22.16)	1	NO	0.03	51				898	
<b>TOTAL FOR MAP NO. 1</b>							<b>11.34</b>			<b>775</b>		<b>155,355</b>	
<b>TOTAL FOR PROJ NO. 3CR.10311.134</b>							<b>11.34</b>			<b>775</b>		<b>155,355</b>	
3CR.10671.134	Onslow	2	NC 50	MICROSURFACING FROM SR 1146 (PRESTON WELLS RD.) TO SR 1105 (HAWES RUN RD.) (2 -Y- LINES)	1	NO				375		755	
		"	"	FULL WIDTH 22' (MP 4.41 - MP 10.81)	1	NO	6.41	22				82,732	
		"	"	NO WORK, (MP 10.81 - MP 11.23)	1	NO	0.41	22					
		"	"	FULL WIDTH 22' (MP 11.23 - MP 14.15)	1	NO	2.92	22				37,688	
<b>TOTAL FOR MAP NO. 2</b>							<b>9.74</b>			<b>375</b>		<b>121,175</b>	
<b>TOTAL FOR PROJ NO. 3CR.10671.134</b>							<b>9.74</b>			<b>375</b>		<b>121,175</b>	
3CR.10711.134	Pender	3	NC 50	MICROSURFACING FROM 0.02 MI. NW OF NC 53 TO DUPLIN CO. LINE (2 -Y- LINES)		NO	0	1		275		1,000	
		"	"	TAPER 29' - 24' (MP 31.28 - MP 31.48)	1	NO	0.2	26.5				3,109	
		"	"	FULL WIDTH 24' (MP 31.48 - MP 36.02)	1	NO	4.54	24				63,923	
<b>TOTAL FOR MAP NO. 3</b>							<b>4.74</b>			<b>275</b>		<b>68,032</b>	
3CR.10711.134	Pender	4	US 421 NBL	MICROSURFACING & RUT FILLING FROM NEW HANOVER CO. LINE TO END DIVIDED HWY (3 -Y- LINES)	2	NO			850	480	15,325.00	2,370	
		"	"	FULL WIDTH 32' (VARIOUS SECTIONS BETWEEN MP 0.00 - MP 9.47)	2	NO	7.74	32				145,306	
		"	"	TAPERS 32' - 44' (VARIOUS SECTIONS BETWEEN MP 0.72 - MP 9.52)	2	NO	0.86	38				19,172	
		"	"	TAPER 42' - 53' (MP 0.77 - MP 0.81)	2	NO	0.04	47.5				1,115	
		"	"	FULL WIDTH 53' (MP 0.81 - MP 0.85, MP 9.09 - MP 9.15)	2	NO	0.1	53				3,109	
		"	"	FULL WIDTH 44' (VARIOUS SECTIONS BETWEEN MP 1.64 - MP 9.57)	2	NO	0.81	44				20,909	
		"	"	FULL WIDTH 56' (MP 8.08 - MP 8.1)	2	NO	0.02	56				657	
		"	"	TAPER 32'-25' (MP 9.57 - MP 9.67)	2	NO	0.1	28.5				1,672	
<b>TOTAL FOR MAP NO. 4</b>							<b>9.67</b>		<b>850</b>	<b>480</b>	<b>15,325.00</b>	<b>194,310</b>	
3CR.10711.134	Pender	5	US 421 SBL	MICROSURFACING & RUT FILLING FROM BEGIN DIVIDED HWY TO NEW HANOVER CO. LINE (4 -Y- LINES)		NO			635	700	11,630.00	3,975	
		"	"	FULL WIDTH 32' (VARIOUS SECTIONS BETWEEN MP 16.74 - MP 26.36)	2	NO	7.83	32				146,995	
		"	"	TAPER 32' - 44' (VARIOUS SECTIONS BETWEEN MP 16.81 - MP 25.55)	2	NO	0.73	38				16,274	
		"	"	FULL WIDTH 44' (VARIOUS SECTIONS BETWEEN MP 16.87 - MP 25.61)	2	NO	0.61	44				15,746	
		"	"	TAPER 32' - 37' (VARIOUS SECTIONS BETWEEN MP 17.2 - MP 26.38)	2	NO	0.09	34.5				1,822	
		"	"	TAPER 37' - 56' (VARIOUS SECTIONS BETWEEN MP 17.22 - MP 19.7)	2	NO	0.13	46.5				3,546	
		"	"	FULL WIDTH 56' (VARIOUS SECTIONS BETWEEN MP 17.28 - MP 21.20)	2	NO	0.21	56				6,899	
		"	"	TAPER 34' - 47' (MP 26.38 - MP 26.4)	2	NO	0.02	40.5				475	
		"	"	TAPER 47' - 52' (MP 26.4 - MP 26.43)	2	NO	0.03	49.5				871	
<b>TOTAL FOR MAP NO. 5</b>							<b>9.65</b>		<b>635</b>	<b>700</b>	<b>11,630.00</b>	<b>196,603</b>	
3CR.10711.134	Pender	6	US 421 UNDIVIDED	MICROSURFACING - FROM BEG./END DIVIDED HWY TO 0.06 MI. S OF BEG./END DIVIDED HWY. TAPER 58' - 32' (MP 9.71 - MP 9.77)	2	NO	0.06	45				1,584	
<b>TOTAL FOR MAP NO. 6</b>							<b>0.06</b>					<b>1,584</b>	
<b>TOTAL FOR PROJ NO. 3CR.10711.134</b>							<b>14.47</b>		<b>1,485</b>	<b>1,455</b>	<b>26,955.00</b>	<b>460,529</b>	
<b>GRAND TOTAL</b>								<b>35.55</b>		<b>1,485</b>	<b>2,605</b>	<b>26,955.00</b>	<b>737,059</b>

PROJECT NO.	SHEET NO.	TOTAL NO.
3CR.10311.134, ETC.	7	

**THERMOPLASTIC AND PAINT QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4415000000-N	4420000000-N	4480000000-N	4685000000-E		4686000000-E		4695000000-E		4725000000-E				4850000000-E	4860000000-E	4875000000-N	4905000000-N		
							FLASHING ARROW BOARD EA	PORTABLE CHANGEABLE MESSAGE SIGN EA	TMA EA	4" X 90 M WHITE THERMO LF	4" X 90 M YELLOW THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" X 90 M YELLOW THERMO LF	8" X 90 M WHITE THERMO LF	MERGE ARROW 90 M EA	THERMO LT ARROW M EA	THERMO STR ARROW M EA	THERMO RT ARROW M EA	4" LINE REMOVAL LF	8" LINE REMOVAL LF	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS EA	SNOW PLOWABLE MARKERS (Y/Y) EA	SNOW PLOWABLE MARKERS (C/R) EA	
3CR.10311.134	Duplin	1	NC 50	MICROSURFACING FROM NC 41 TO 0.05 MI. SE OF NC 24 (10 -Y- LINES)																					
		"	"	FULL WIDTH 22' (MP 10.82 - MP 15.78, MP 15.85 - MP 22.03)	11.14	22				117,638		88,229								211,492	225			735	
		"	"	TAPERS 22'-27' (MP 15.78 - MP 15.81, MP 15.83 - MP 15.85)	0.05	24.5				528		396	66											3	
		"	"	FULL WIDTH 27' (MP 15.81 - MP 15.83)	0.02	27				211		159	106											1	
		"	"	TAPER 22'-51' (MP 22.03 - MP 22.13)	0.1	36.5				1,056		2,112		125										7	
		"	"	FULL WIDTH 51' (MP 22.13 - MP 22.16)	0.03	51				317		634	40	100										2	
TOTAL FOR MAP NO. 1					11.34					119,750		91,530	212	225						211,492	225			748	
TOTAL FOR PROJ NO. 3CR.10311.134					11.34					119,750		91,530	212	225						211,492	225			748	
										119,750		91,742		225						211,492	225			748	
																								748	
3CR.10671.134	Onslow	2	NC 50	MICROSURFACING FROM SR 1146 (PRESTON WELLS RD.) TO SR 1105 (HAWES RUN RD.) (2-Y- LINES)																172,420					
		"	"	FULL WIDTH 22' (MP 4.41 - MP 10.81)	6.41	22				67,690		50,768												423	
		"	"	NO WORK, (MP 10.81- MP 11.23)	0.41	22																			
		"	"	FULL WIDTH 22' (MP 11.23 - MP 14.15)	2.92	22				30,835		23,127												193	
TOTAL FOR MAP NO. 2					9.74					98,525		73,895									172,420			616	
TOTAL FOR PROJ NO. 3CR.10671.134					9.74					98,525		73,895									172,420			616	
										98,525		73,895								172,420			616		
																								616	
3CR.10711.134	Pender	3	NC 50	MICROSURFACING FROM 0.02 MI. NW OF NC 53 TO DUPLIN CO. LINE (2-Y- LINES)																87,595					
		"	"	TAPER 29' - 24' (MP 31.28 - MP 31.48)	0.2	26.5				2,112		1,584												13	
		"	"	FULL WIDTH 24' (MP 31.48 - MP 36.02)	4.54	24				47,942		35,957												300	
TOTAL FOR MAP NO. 3					4.74					50,054		37,541									87,595			313	
3CR.10711.134	Pender	4	US 421 NBL	MICROSURFACING & RUT FILLING FROM NEW HANOVER CO. LINE TO END DIVIDED HWY (3-Y- LINES)			1	1	1											117,906	700	194			
		"	"	FULL WIDTH 32' (VARIOUS SECTIONS BETWEEN MP 0.00 - MP 9.47)	7.74	32				40,867	40,867		10,217			5								511	
		"	"	TAPERS 32' - 44' (VARIOUS SECTIONS BETWEEN MP 0.72 - MP 9.52)	0.86	38				4,541	4,541		2,270											207	
		"	"	TAPER 42' - 53' (MP 0.77 - MP 0.81)	0.04	47.5				211	211		158											8	
		"	"	FULL WIDTH 53' (MP 0.81 - MP 0.85, MP 9.09 - MP 9.15)	0.1	53				528	528		396			6	16	6						20	
		"	"	FULL WIDTH 44' (VARIOUS SECTIONS BETWEEN MP 1.64 - MP 9.57)	0.81	44				4,277	4,277		2,138			3	42	104						107	
		"	"	FULL WIDTH 56' (MP 8.08 - MP 8.1)	0.02	56				106	106		79			3	8	1						4	
		"	"	TAPER 32'-25' (MP 9.57- MP 9.67)	0.1	28.5				528	528	400	132		700									7	
TOTAL FOR MAP NO. 4					9.67		1	1	1	51,058	51,058	400	15,390		700	8	51	128	7	117,906	700	194		864	
3CR.10711.134	Pender	5	US 421 SBL	MICROSURFACING & RUT FILLING FROM BEGIN DIVIDED HWY TO NEW HANOVER CO. LINE (4-Y- LINES)			1	1	1											117,876	250	209			
		"	"	FULL WIDTH 32' (VARIOUS SECTIONS BETWEEN MP 16.74 - MP 26.36)	7.83	32				41,342	41,342	200	10,336	75										2	517
		"	"	TAPER 32' - 44' (VARIOUS SECTIONS BETWEEN MP 16.81 - MP 25.55)	0.73	38				3,854	3,854		1,927												48
		"	"	FULL WIDTH 44' (VARIOUS SECTIONS BETWEEN MP 16.87 - MP 25.61)	0.61	44				3,221	3,221		1,610			39	104								81
		"	"	TAPER 32' - 37' (VARIOUS SECTIONS BETWEEN MP 17.2 - MP 26.38)	0.09	34.5				475	475		356												18
		"	"	TAPER 37' - 56' (VARIOUS SECTIONS BETWEEN MP 17.22 - MP 19.7)	0.13	46.5				686	686		515												26
		"	"	FULL WIDTH 56' (VARIOUS SECTIONS BETWEEN MP 17.28 - MP 21.20)	0.21	56				1,109	1,109		832			12	32	8							42
		"	"	TAPER 34' - 47' (MP 26.38 - MP 26.4)	0.02	40.5				106	106		79												4
		"	"	TAPER 47' - 52' (MP 26.4 - MP 26.43)	0.03	49.5				158	158		119			3	8	3							6
TOTAL FOR MAP NO. 5					9.65		1	1	1	50,951	50,951	200	15,774	75		54	144	11	117,876	250	209	2		742	
3CR.10711.134	Pender	6	US 421 UNDIVIDED	MICROSURFACING - FROM BEG./END DIVIDED HWY TO 0.06 MI. S OF BEG./END DIVIDED HWY. TAPER 58' - 32' (MP 9.71 - MP 9.77)	0.06	45				634		1,267		150						1,901	150			8	
TOTAL FOR MAP NO. 6					0.06					634		1,267		150							1,901	150			8
TOTAL FOR PROJ NO. 3CR.10711.134					14.47		2	2	2	152,697	102,009	39,408	31,164	225	700	8	105	272	18	325,278	1,100	403		1,606	
										254,706		70,572		925						403				1,929	
GRAND TOTAL					35.55		2	2	2	370,972	102,009	204,833	31,376	450	700	8	105	272	18	709,190	1,325	403		1,687	
										472,981		236,209		1,150						403				3,293	