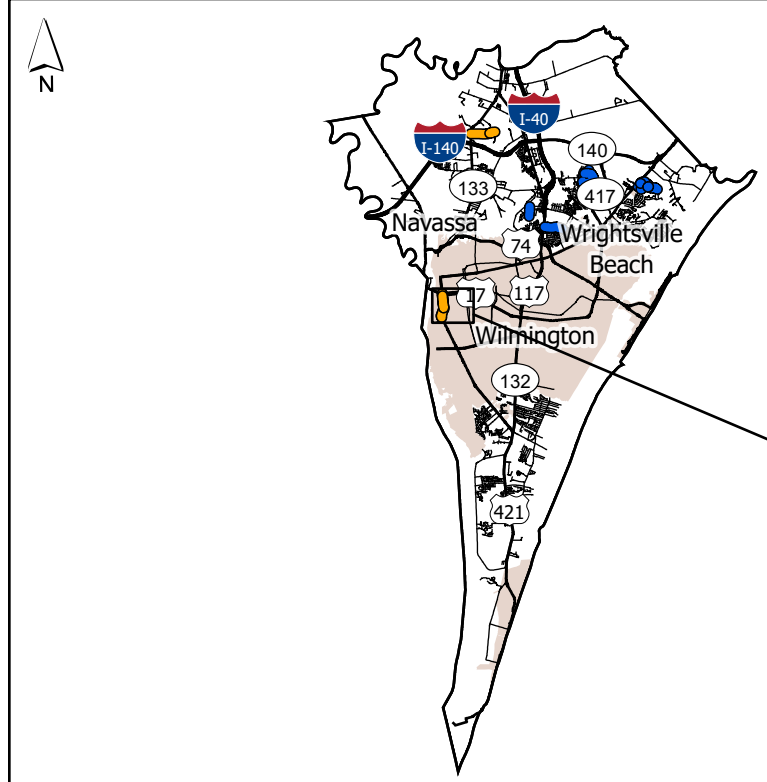


WBS: 2027CPT.03.03.10651

CONTRACT: DC00508



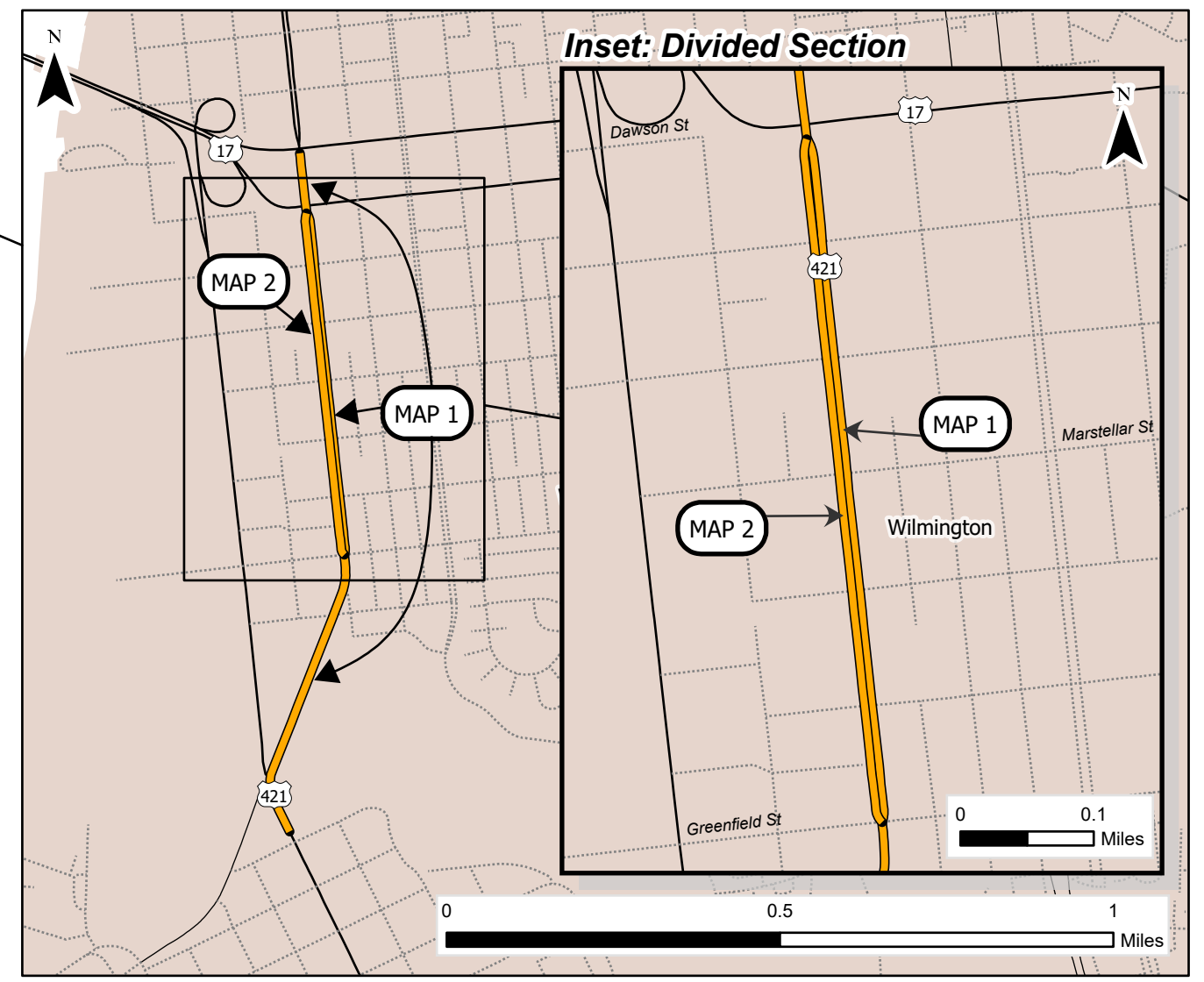
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
NEW HANOVER COUNTY

TYPE OF WORK: *Resurfacing*

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.03.03.10651	1
STATE PROJECT NUMBER		DESCRIPTION

 Resurfacing

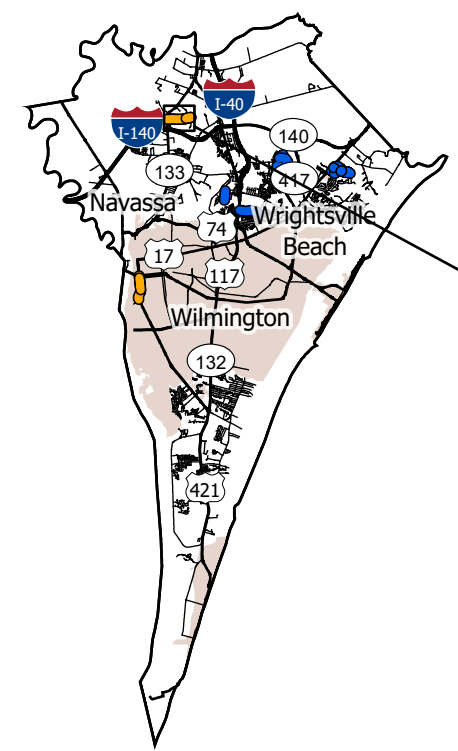
MAP	ROUTE	DESCRIPTION	TYPE
1	US HWY 421 (3RD ST/ BURNETT BLVD)	FROM W LAKE SHORE DR TO US 17 W (WOOSTER ST) [MP 19.56 - MP 20.61]	Resurfacing
2	US HWY 421 SB (3RD ST)	FROM US 17 E (DAWSON ST) TO GREENFIELD ST [MP 9.00 - MP 9.51]	Resurfacing



<i>PROJECT LENGTH</i>		Prepared in the Office of: <i>DIVISION OF HIGHWAYS</i> 5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429							
<table border="1"><thead><tr><th>MAP</th><th>MILES</th></tr></thead><tbody><tr><td>1</td><td>1.05</td></tr><tr><td>2</td><td>0.51</td></tr></tbody></table>		MAP	MILES		1	1.05	2	0.51	This exhibit does not meet NC 47-30 requirements and therefore is not intended for design, construction, or recording or transfer of title.
MAP	MILES								
1	1.05								
2	0.51								

WBS: 2027CPT.03.03.20651

CONTRACT: DC00508



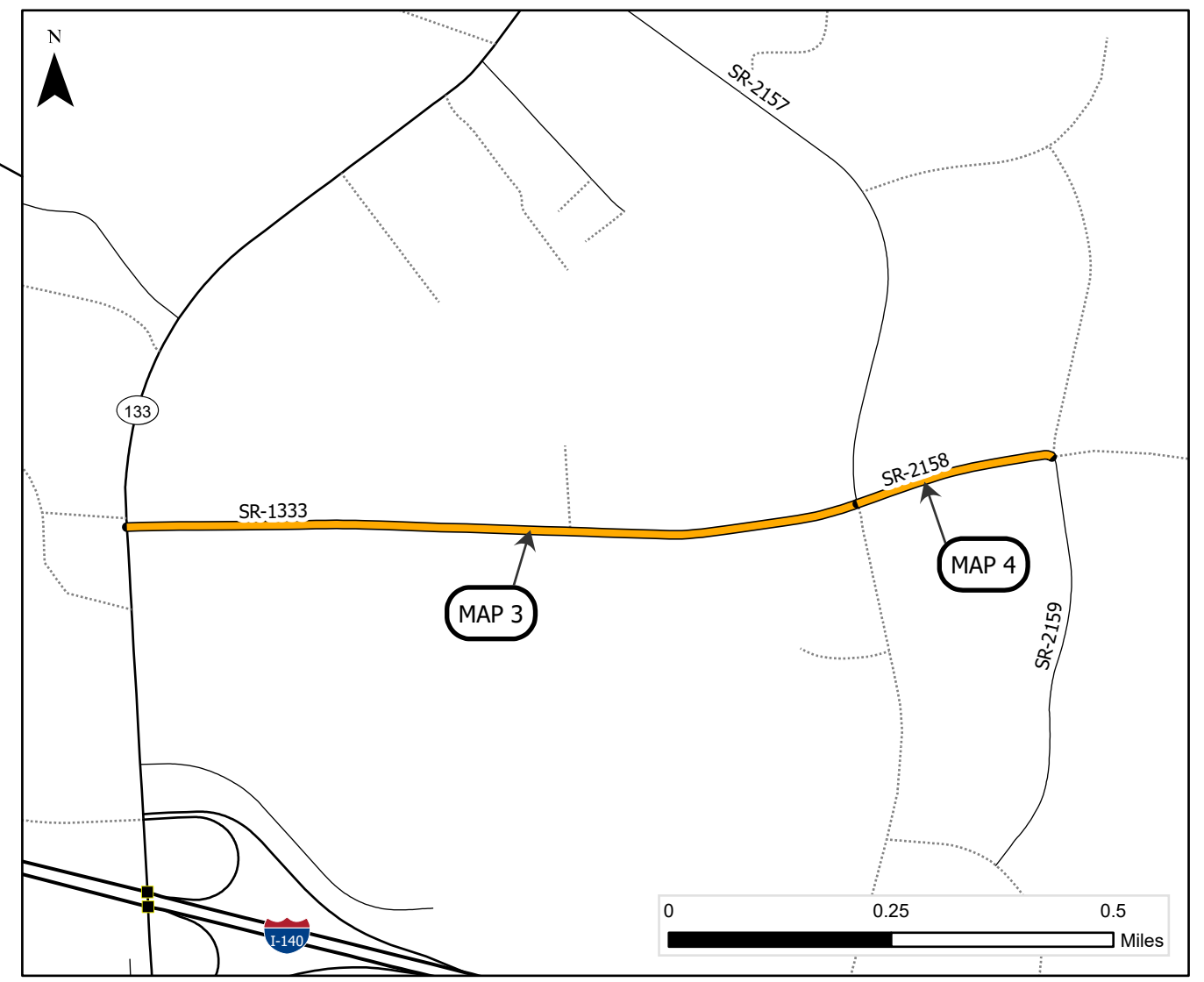
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
NEW HANOVER COUNTY

TYPE OF WORK: Resurfacing

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.03.03.20651	2
STATE PROJECT NUMBER		DESCRIPTION

- Resurfacing
- Division 3 Bridges

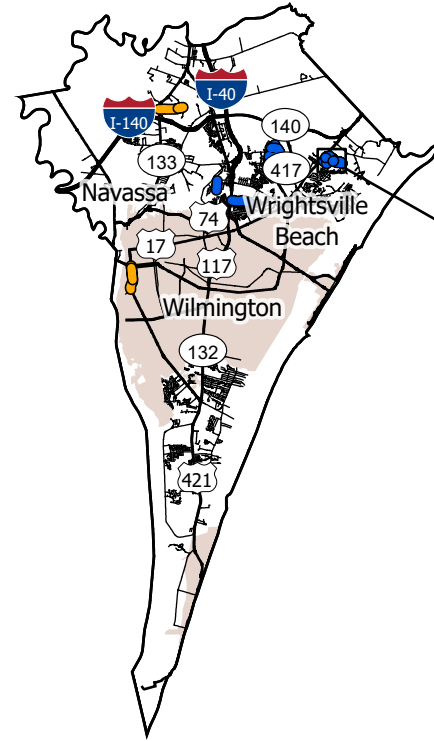
MAP	ROUTE	DESCRIPTION	TYPE
3	SR 1333 (HERMITAGE RD)	FROM NC 133 (CASTLE HAYNE RD) TO SR 2157 (CROWATAN RD) [MP 0.00 - MP 0.83]	Resurfacing
4	SR 2158 (HERMITAGE RD)	FROM SR 2157 (CROWATAN RD) TO SR 2159 (CHESTERFIELD RD) [MP 0.00 - MP 0.23]	Resurfacing



PROJECT LENGTH		Prepared in the Office of: DIVISION OF HIGHWAYS 5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429						
<table><tr><th>MAP</th><th>MILES</th></tr><tr><td>3</td><td>0.83</td></tr><tr><td>4</td><td>0.23</td></tr></table>		MAP		MILES	3	0.83	4	0.23
MAP	MILES							
3	0.83							
4	0.23							

WBS: 2027CPT.03.03.20652

CONTRACT: DC00508



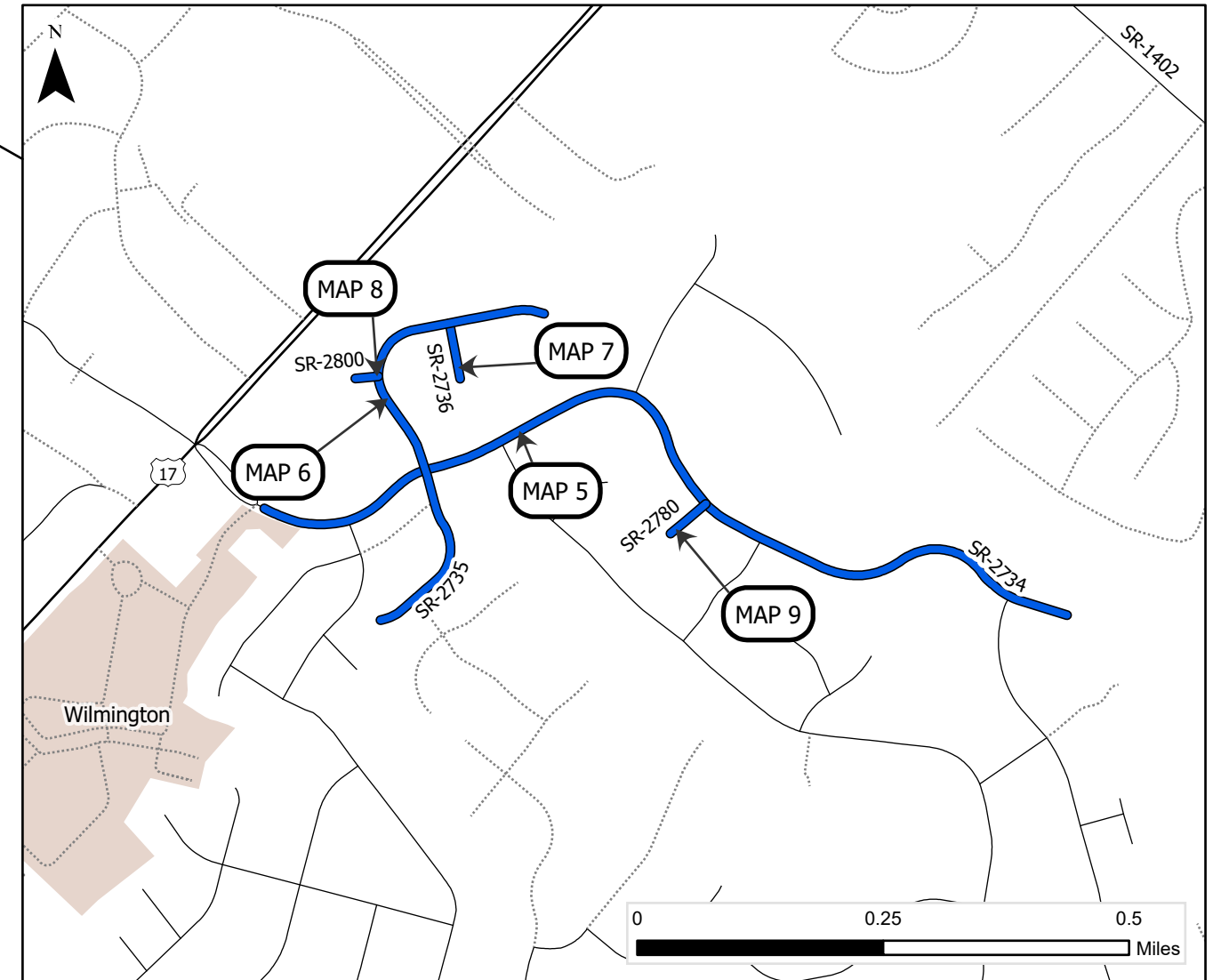
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
NEW HANOVER COUNTY

TYPE OF WORK: Preservation

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.03.03.20652	3
STATE PROJECT NUMBER		DESCRIPTION

 Preservation

MAP	ROUTE	DESCRIPTION	TYPE
5	SR 2734 (MARSH OAKS DR)	FROM HWY 17 (MARKET ST) TO CDS [MP 0.10 - MP 1.06]	Preservation
6	SR 2735 (SANDERLING PL)	FROM CDS TO CDS [MP 0.00 - MP 0.50]	Preservation
7	SR 2736 (KOONCE CT)	FROM SR 2735 (SANDERLING PL) TO CDS [MP 0.00 - MP 0.06]	Preservation
8	SR 2800 (TARRANTS CT)	FROM SR 2735 (SANDERLING PL) TO CDS [MP 0.00 - MP 0.02]	Preservation
9	SR 2780 (GREYTHORNE CT)	FROM SR 2734 (MARSH OAKS DR) TO CDS [MP 0.00 - MP 0.05]	Preservation



PROJECT LENGTH

MAP	MILES
5	0.96
6	0.50
7	0.06

MAP	MILES
8	0.02
9	0.05

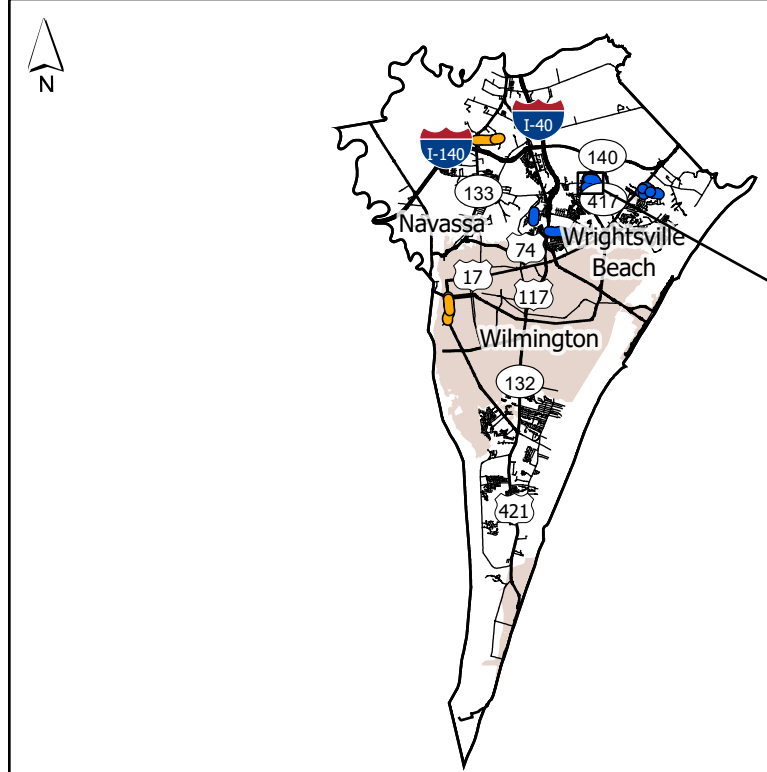
Prepared in the Office of:
DIVISION OF HIGHWAYS
5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429

This exhibit does not meet NC 47-30 requirements and therefore is not intended for design, construction, or recording or transfer of title.



WBS: 2027CPT.03.03.20652

CONTRACT: DC00508



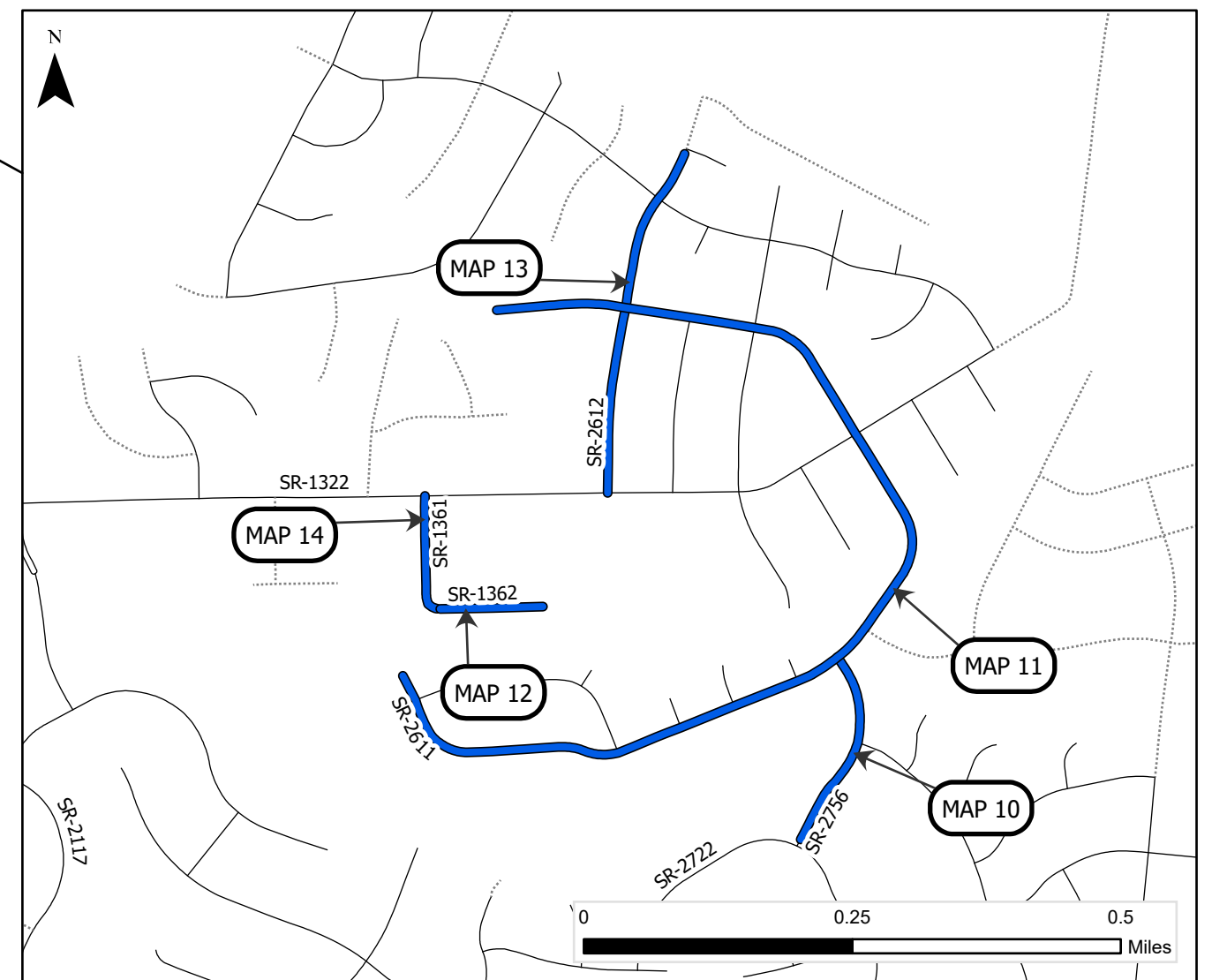
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
NEW HANOVER COUNTY

TYPE OF WORK: Preservation

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.03.03.20652	4
STATE PROJECT NUMBER		DESCRIPTION

— Preservation

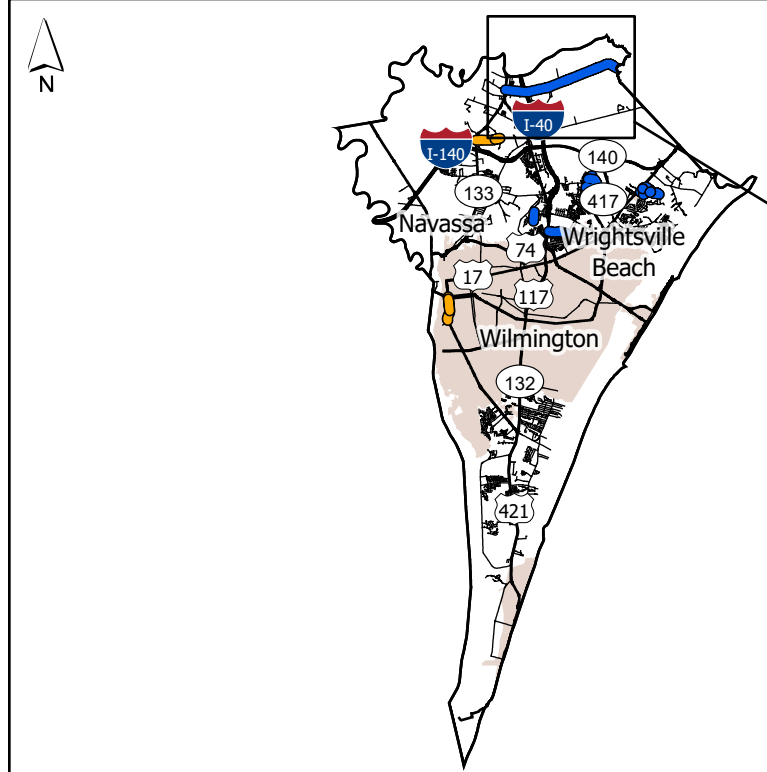
MAP	ROUTE	DESCRIPTION	TYPE
10	SR 2756 (DOVE FIELD DR)	FROM SR 2611 (QUAIL WOODS RD) TO SR 2722 (BRITTANY LAKES DR) [MP 0.00 - MP 0.19]	Preservation
11	SR 2611 (QUAIL WOODS RD)	FROM CDS TO CDS [MP 0.00 - MP 1.10]	Preservation
12	SR 1362 (MEADOWVIEW AVE)	FROM SR 1361 (CLEWIS AVE) TO DEAD END [MP 0.00 - MP 0.10]	Preservation
13	SR 2612 (CLOVEY LN)	FROM SR 1322 (MURRAYVILLE RD) TO EOM [MP 0.00 - MP 0.33]	Preservation
14	SR 1361 (CLEWIS AVE)	FROM SR 1322 (MURRAYVILLE RD) TO SR 1362 (MEADOWVIEW AVE) [MP 0.00 - MP 0.11]	Preservation



PROJECT LENGTH		Prepared in the Office of: DIVISION OF HIGHWAYS 5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429														
<table><tr><th>MAP</th><th>MILES</th></tr><tr><td>10</td><td>0.19</td></tr><tr><td>11</td><td>1.10</td></tr><tr><td>12</td><td>0.10</td></tr></table>	MAP	MILES		10	0.19	11	1.10	12	0.10	<table><tr><th>MAP</th><th>MILES</th></tr><tr><td>13</td><td>0.33</td></tr><tr><td>14</td><td>0.11</td></tr></table>	MAP	MILES	13	0.33	14	0.11
MAP	MILES															
10	0.19															
11	1.10															
12	0.10															
MAP	MILES															
13	0.33															
14	0.11															

WBS: 2027CPT.03.03.20652

CONTRACT: DC00508



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
NEW HANOVER COUNTY

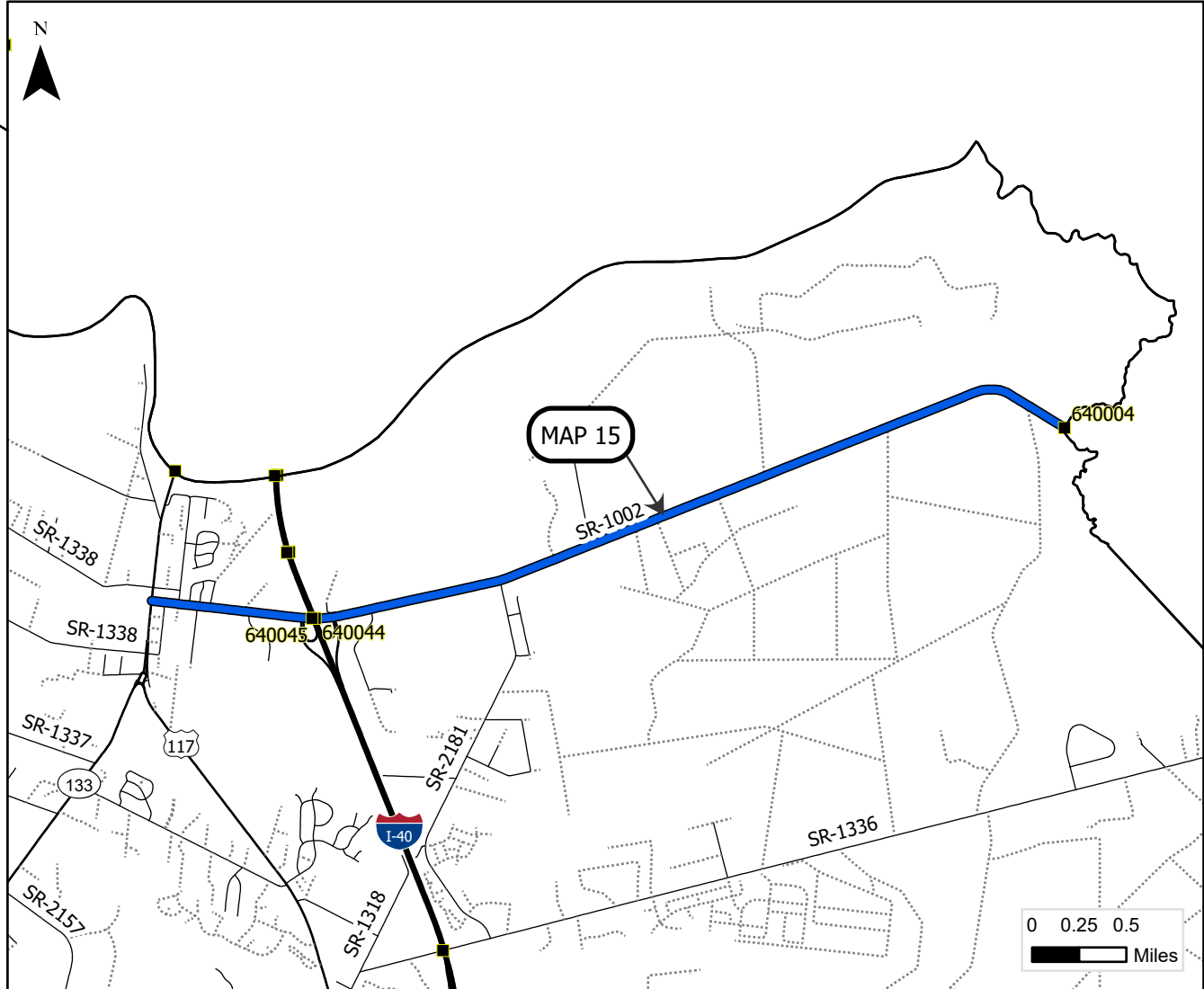
TYPE OF WORK: Preservation

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.03.03.20652	5
STATE PROJECT NUMBER		DESCRIPTION

- Preservation* (Patching / Leveling)
- Division 3 Bridges

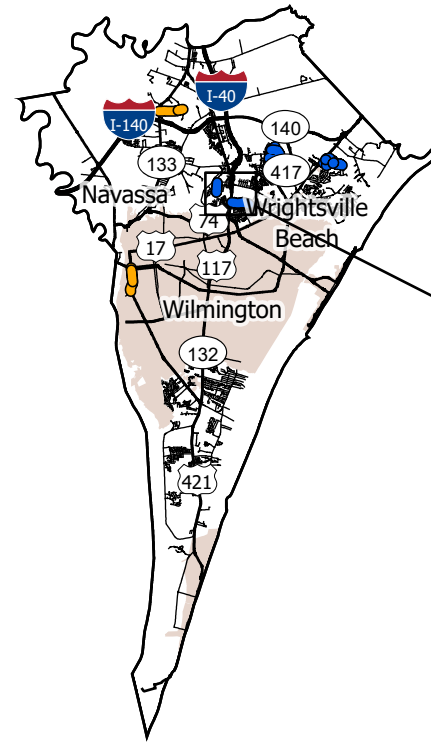
MAP	ROUTE	DESCRIPTION	TYPE
15	SR 1002 (HOLLY SHELTER RD)	FROM US 117 / NC 133 (CASTLE HAYNE RD) TO PENDER COUNTY LINE [MP 0.00 - MP 5.10]	Preservation* (Patching / Leveling)

*MAP NO. 15 - SR 1002 (HOLLY SHELTER RD)
ONLY MILL PATCHING & LEVELING IN VARIOUS LOCATIONS.



PROJECT LENGTH <table><tr><th>MAP</th><th>MILES</th></tr><tr><td>15</td><td>5.10</td></tr></table>	MAP	MILES	15	5.10	Prepared in the Office of: DIVISION OF HIGHWAYS 5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429 This exhibit does not meet NC 47-30 requirements and therefore is not intended for design, construction, or recording or transfer of title.	
	MAP	MILES				
15	5.10					

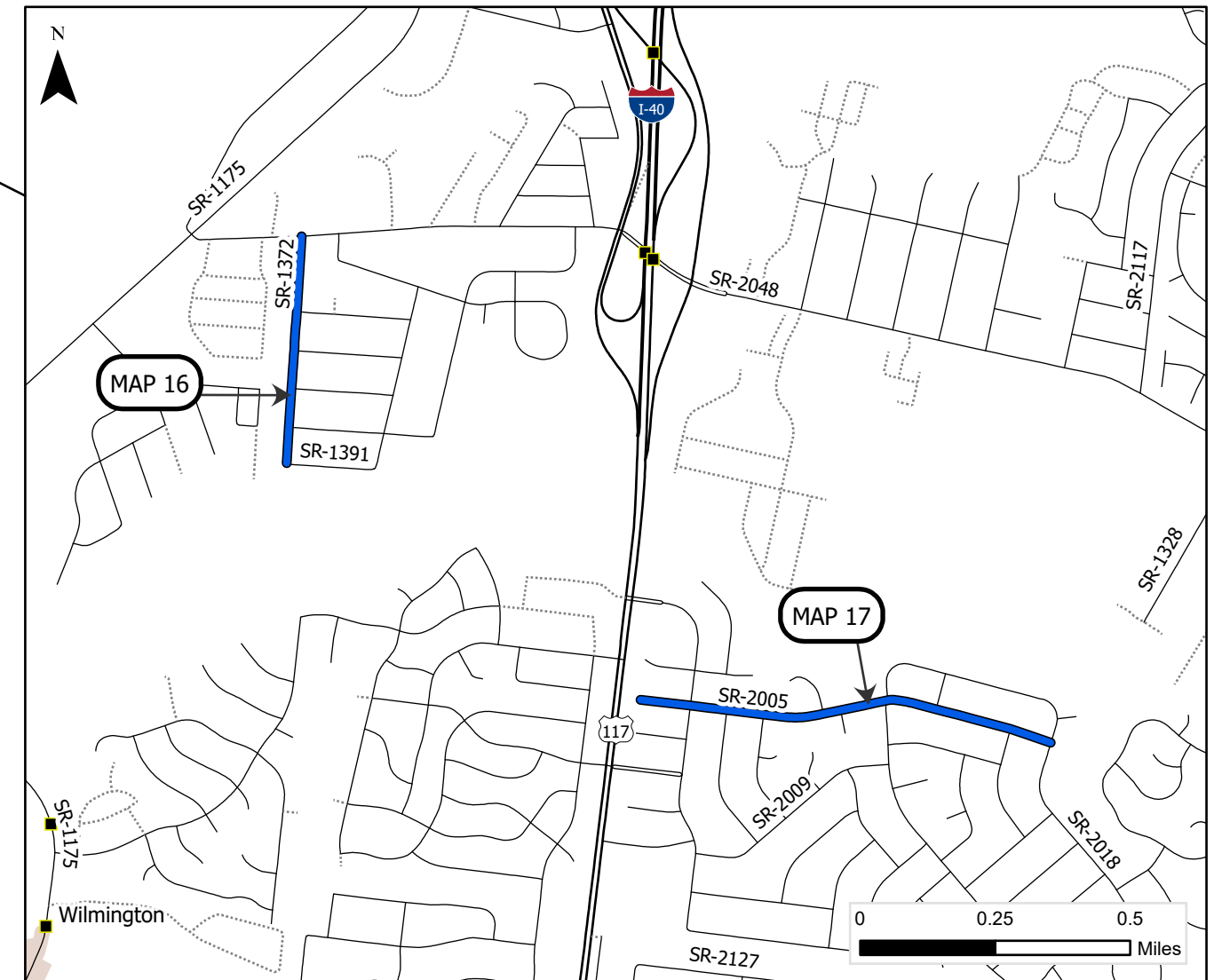
CONTRACT: DC00508



TYPE OF WORK: *Preservation*

- **Division 3 Bridges**

MAP	ROUTE	DESCRIPTION	TYPE
16	SR 1372 (BROOKFIELD DR)	FROM SR 2048 (GORDON RD) TO SR 1391 (DELLWOOD DR) [MP 0.00 - MP 0.42]	Preservation
17	SR 2005 (LORD BYRON RD)	FROM CDS TO SR 2018 (FITZGERALD DR) [MP 0.00 - MP 0.78]	Preservation



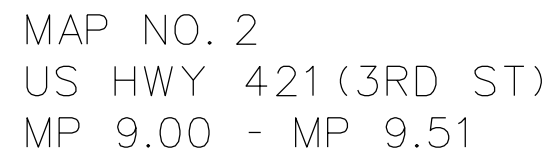
PROJECT LENGTH

MAP	MILES
16	0.42
17	0.78

Prepared in the Office of:
DIVISION OF HIGHWAYS
5501 BARBADOS BLVD., CASTLE HAYNE, NC, 28429

This exhibit does not meet NC 47-30 requirements and therefore is not intended for design, construction, or recording or transfer of title.





NOTES:

**MILL A SINGLE LANE AND PAVE BACK
BY THE END OF EACH WORK DAY.**

**SHOULDER WORK ON MAP NO. 3 - 4 AS
NEEDED, TO BE DETERMINED BY ENGINEER.**

**THE CONTRACTOR SHALL RETAIN EXISTING
LANE WIDTHS.**

**REINSTALL PAVEMENT MARKINGS PER 2024
STANDARDS.**

**MAP NO. 15 - SR 1002 (HOLLY SHELTER DR)
ONLY MILL PATCHING & LEVELING IN
VARIOUS LOCATIONS.**

PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE.
SEE SHOULDER WEDGE DETAIL.



MAP NO. 7
SR 2736 (KOONCE CT)
MP 0.00 - MP 0.06

MAP NO. 13
SR 2612 (CLOVEY LN)
MP 0.00 - MP 0.33



MAP NO. 10
SR 2756 (DOVE FIELD DR)
MP 0.00 - MP 0.19

NOTES: THE CONTRACTOR SHALL RETAIN EXISTING LANE WIDTHS.

REINSTALL PAVEMENT MARKINGS PER 2024 STANDARDS.

PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE.
SEE SHOULDER WEDGE DETAIL.

REVISIONS

\$SYTIME\$\$\$
\$DGN\$\$\$
\$NAME\$\$\$
\$UCEDNAME\$\$\$

8/17/99

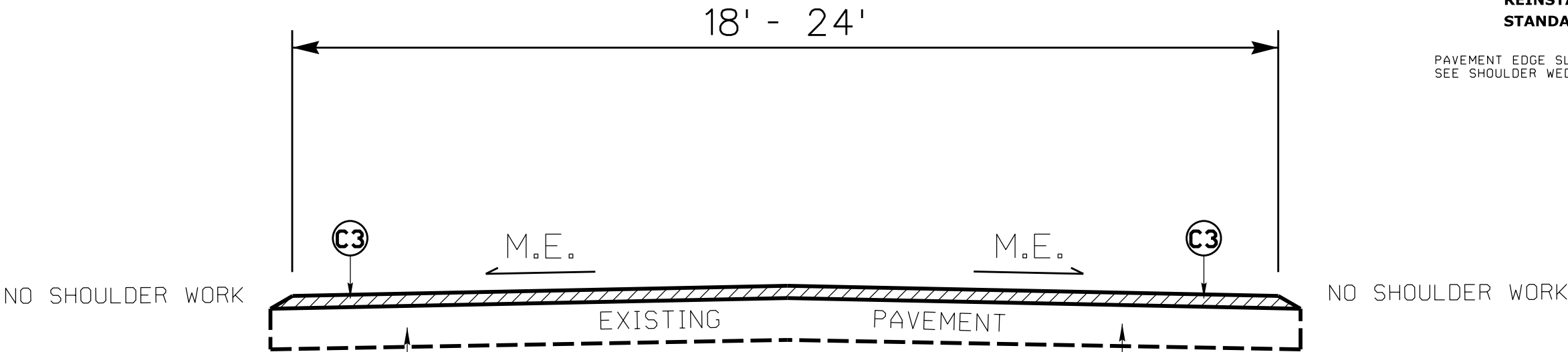
REVISIONS

PAVEMENT SCHEDULE	
C3	PROP. APPROX. 1" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S4.75A, AT AN AVERAGE RATE OF 110 LBS. PER SQ.YD.
U	EXISTING PAVEMENT

NOTES: THE CONTRACTOR SHALL RETAIN EXISTING LANE WIDTHS.

REINSTALL PAVEMENT MARKINGS PER 2024 STANDARDS.

PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE. SEE SHOULDER WEDGE DETAIL.



TYPICAL SECTION NO. 5

MAP NO. 12
SR 1362 (MEADOWVIEW AVE)
MP 0.00 - MP 0.10

MAP NO. 14
SR 1361 (CLEWIS AVE)
MP 0.00 - MP 0.11

MAP NO. 16
SR 1372 (BROOKFIELD DR)
MP 0.00 - MP 0.42

MAP NO. 17
SR 2009 (LORD BYRON RD)
MP 0.00 - MP 0.78

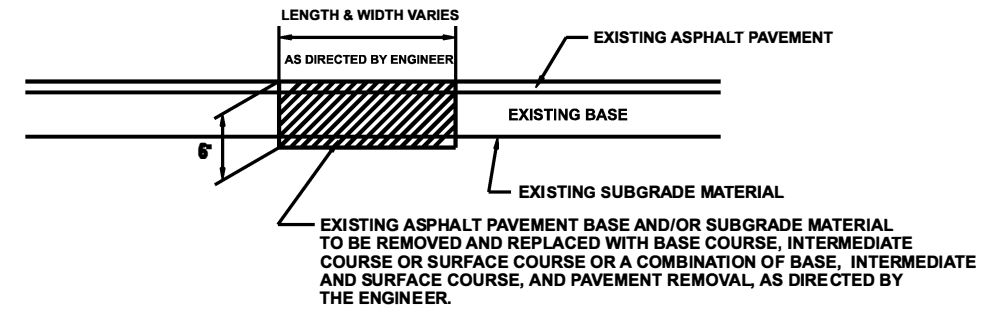
2024 ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 01-16-2024
REV.

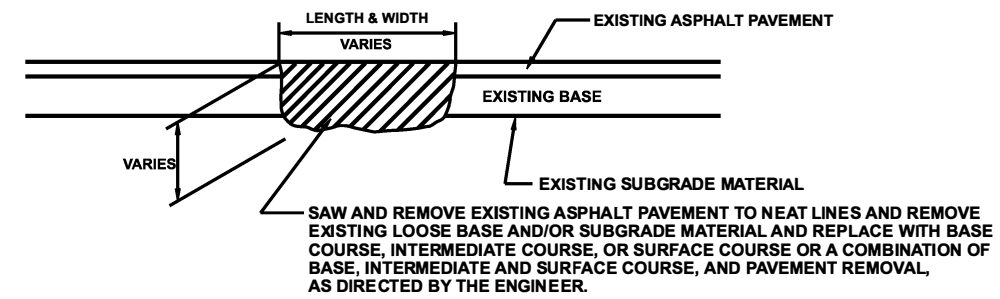
The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N.C. Department of Transportation - Raleigh, N.C., Dated January, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 12 - PVMT MARKING, MARKERS AND DELINEATION	
1205.08	Pavement Markings - Symbols & Word Messages

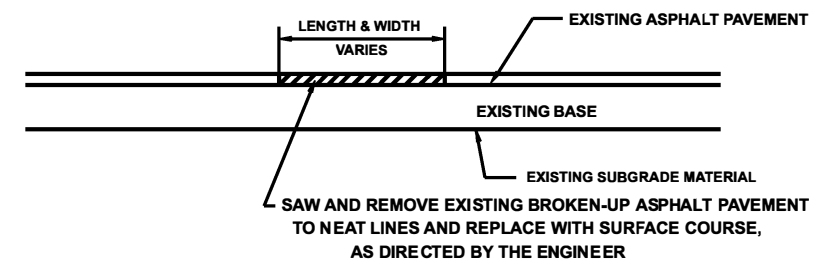
DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR TO RESURFACING FOR FULL DEPTH AND MILLING



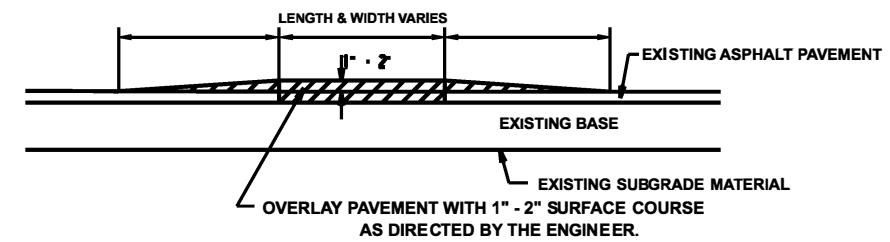
DETAIL NO. 1



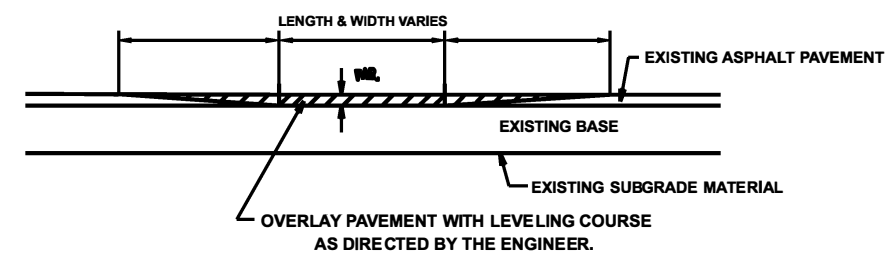
DETAIL NO. 2



DETAIL NO. 3



DETAIL NO. 4



DETAIL NO. 5

REVISIONS

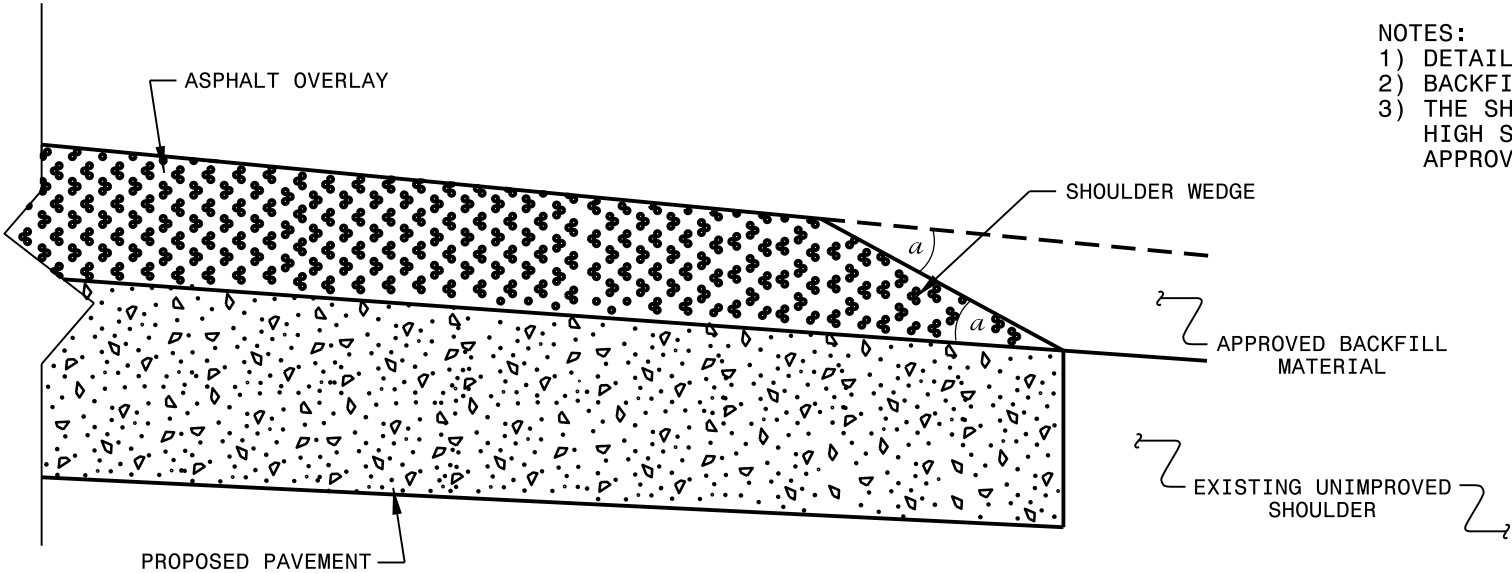
8/17/99

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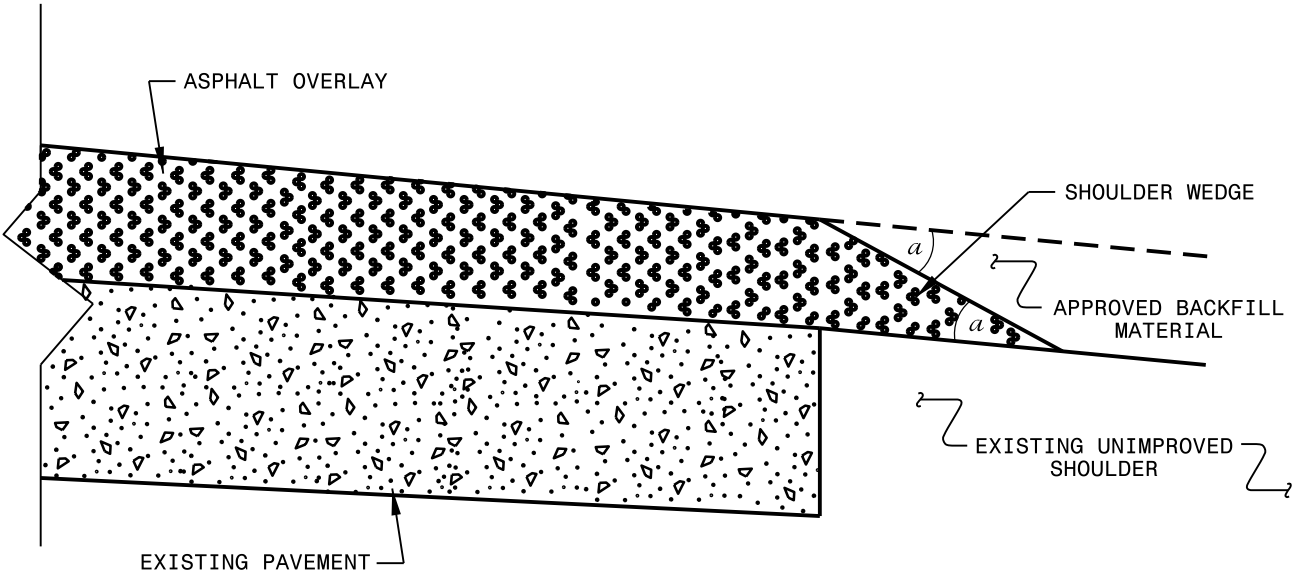
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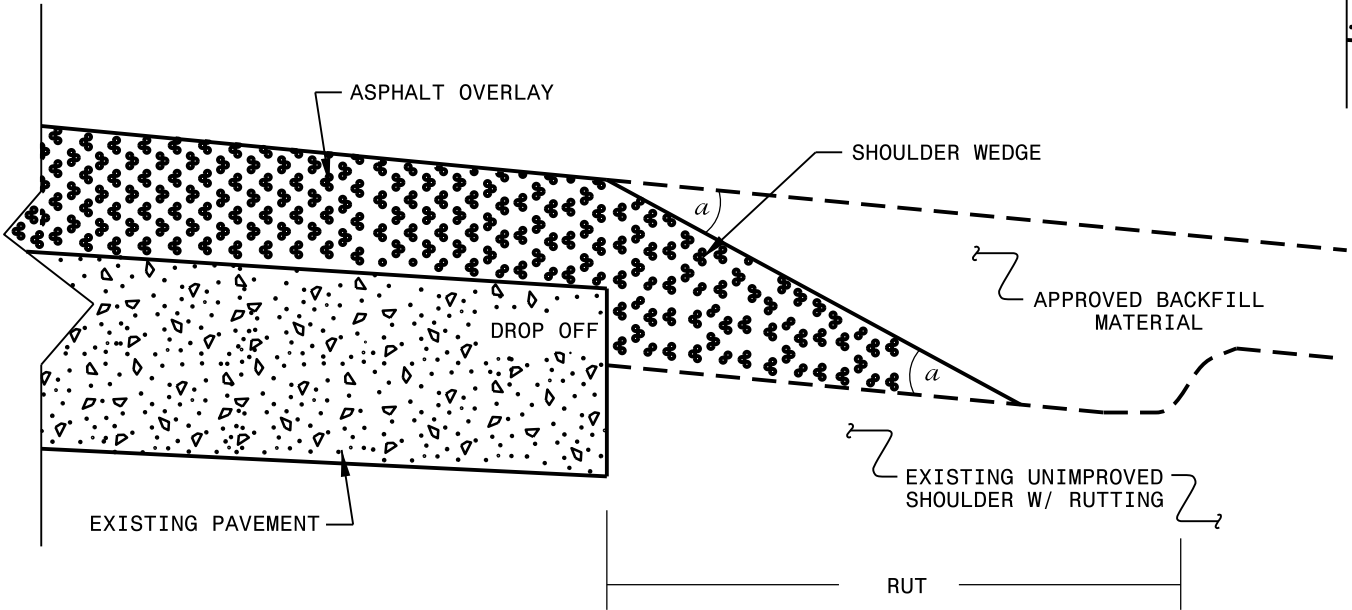
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



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



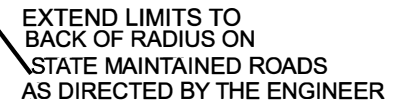
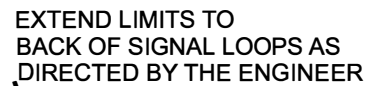
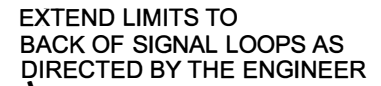
SHOULDER WEDGE DETAIL
(Resurfacing Projects w/ NO Widening)



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:	2/2/16
CHECKED BY:		DATE:	
FILE SPEC.:	s:\usr\details\stand\shoulderwedgedetail.dgn		



TYPICAL DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES

TYPICAL DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

ADDITIONAL INTERSECTIONS (NON-TYPICAL)

Extend paving limits to back of radius
or loop on the following Intersections:

[illegible]

PROJECT NO.	SHEET NO.
2027CPT.03.03.10651, ETC.	13

SUMMARY OF QUANTITIES

												0106000000-E	1220000000-E	1245000000-E	1297000000-E	1308000000-E		1330000000-E	1519000000-E	1523000000-E	1524000000-E	1526000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	BORROW EXCAVATION	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1" MILLING	0" - 1.5" MILLING	0" - 1" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	SURFACE COURSE, S9.5C	LEVELING COURSE, S9.5C	SURFACE COURSE, S4.75A
								MI	FT			CY	TON	SMI	SY	SY	SY	SY	TON	TON	TON	TON
2027CPT.03.03.10651	NewHanover	1	US-421 / 3RD ST/BURNETT BLVD	FROM W LAKE SHORE DR TO US 17 W (WOOSTER ST) [MP 19.56 - MP 20.61]	1	2	MU	1.05	40	19.56	20.61					7,603		378		2,176		
TOTAL FOR MAP NO. 1								1.05								7,603		378		2,176		
2027CPT.03.03.10651	NewHanover	2	US-421 SB / 3RD ST	FROM US 17 E (DAWSON ST) TO GREENFIELD ST [MP 9.00 - MP 9.51]	1	2	MD	0.51	24	9.00	9.51					3,731				778		
TOTAL FOR MAP NO. 2								0.51								3,731				778		
TOTAL FOR PROJ NO. 2027CPT.03.03.10651								1.56								11,334		378		2,954		
2027CPT.03.03.20651	New Hanover	3	SR-1333 / HERMITAGE RD	FROM NC133 TO SR 2157 (CROWATAN RD) [MP 0.00 - MP 0.83]	2	2	2WU	0.83	20	0.00	0.83	100	30	1.64				58	967			
TOTAL FOR MAP NO. 3								0.83				100	30	1.64				58	967			
2027CPT.03.03.20651	NewHanover	4	SR-2158 / HERMITAGE RD	FROM SR 2157 (CROWATAN RD) TO SR 2159 (CHESTERFIELD RD) [MP 0.00 - MP 0.23]	2	2	2WU	0.23	32	0.00	0.23	28	14	0.46					262			
TOTAL FOR MAP NO. 4								0.23				28	14	0.46					262			
TOTAL FOR PROJ NO. 2027CPT.03.03.20651								1.06				128	44	2.10				58	1,229			
2027CPT.03.03.20652	New Hanover	5	SR-2734 / MARSH OAKS DR	FROM HWY 17 TO CDS [MP 0.10 - MP 1.06]	3	2	2WU	0.96	32	0.10	1.06						6,616	1,172				1,101
TOTAL FOR MAP NO. 5								0.96									6,616	1,172				1,101
2027CPT.03.03.20652	NewHanover	6	SR-2735 / SANDERLING PL	FROM CDS TO CDS [MP 0.00 - MP 0.50]	3	2	2WU	0.50	20	0.00	0.50						3,623	61				447
TOTAL FOR MAP NO. 6								0.50									3,623	61				447
2027CPT.03.03.20652	NewHanover	7	SR-2736 / KOONCE CT	FROM SR 2735 (SANDERLING) TO DEAD END [MP 0.00 - MP 0.06]	3	2	2WU	0.06	24	0.00	0.06						479					69
TOTAL FOR MAP NO. 7								0.06									479					69
2027CPT.03.03.20652	NewHanover	8	SR-2800 / TARRANTS CT	FROM SR 2735 (SANDERLING) TO CDS [MP 0.00 - MP 0.02]	3	2	2WU	0.02	24	0.00	0.02						160					37
TOTAL FOR MAP NO. 8								0.02									160					37
2027CPT.03.03.20652	New Hanover	9	SR-2780 / GREYTHORNE CT	FROM SR 2734 (MARSH OAKS DR) TO CDS [MP 0.00 - MP 0.05]	3	2	2WU	0.05	24	0.00	0.05						400					61
TOTAL FOR MAP NO. 9								0.05									400					61
2027CPT.03.03.20652	New Hanover	10	SR-2756 / DOVE FIELD DR	FROM SR 2611 (QUAIL WOODS RD) TO SR 2722 (BRITTANY LAKES DR) [MP 0.00 - MP 0.19]	4	2	2WU	0.19	20	0.00	0.19				2,594			156				188
TOTAL FOR MAP NO. 10								0.19							2,594			156				188
2027CPT.03.03.20652	NewHanover	11	SR-2611 / QUAIL WOODS RD	FROM CDS TO CDS [MP 0.00 - MP 1.10]	3	2	2WU	1.10	24	0.00	1.10		4				5,837	511				906
TOTAL FOR MAP NO. 11								1.10					4				5,837	511				906
2027CPT.03.03.20652	NewHanover	12	SR-1362 / MEADOWVIEW AVE	FROM SR 1361 (CLEWIS AVE) TO DEAD END [MP 0.00 - MP 0.10]	5	2	2WU	0.10	24	0.00	0.10		16					106				70
TOTAL FOR MAP NO. 12								0.10					16					106				70
2027CPT.03.03.20652	NewHanover	13	SR-2612 / CLOVEY LN	FROM SR 1322 (MURRAYVILLE RD) TO END OF MAINTENANCE [MP 0.00-MP 0.33]	3	2	2WU	0.33	24	0.00	0.33						795	239				286
TOTAL FOR MAP NO. 13								0.33									795	239				286
2027CPT.03.03.20652	NewHanover	14	SR-1361 / CLEWIS AVE	FROM SR 1322 (MURRAYVILLE RD) TO SR 1362 (MEADOWVIEW AVE) [MP 0.00 - MP 0.11]	5	2	2WU	0.11	18	0.00	0.11		18									67
TOTAL FOR MAP NO. 14								0.11					18									67
2027CPT.03.03.20652	NewHanover	15	SR-1002 / HOLLY SHELTER RD	FROM US 117/NC 133 (CASTLE HAYNE RD) TO PENDER COUNTY LINE [MP 0.00 - MP 5.10]	2	2	2WU	5.10	27	0.00	5.10										446	
TOTAL FOR MAP NO. 15								5.10													446	
2027CPT.03.03.20652	NewHanover	16	SR-1372 / BROOKFIELD DR	FROM SR 2048 (GORDON RD) TO SR 1391 (DELLWOOD DR) [MP 0.00 - MP 0.42]	5	2	2WU	0.42	18	0.00	0.42							300				256
TOTAL FOR MAP NO. 16								0.42										300				256
2027CPT.03.03.20652	NewHanover	17	SR-2005 / LORD BYRON RD	FROM CDS TO SR 2018 (FITZGERALD DR) [MP 0.00 - MP 0.78]	5	2	2WU	0.78	18	0.00	0.78							711				501
TOTAL FOR MAP NO. 17								0.78										711				501
TOTAL FOR PROJ NO. 2027CPT.03.03.20652								9.72					38		2,594		17,910	3,256		446		3,989
GRAND TOTAL								12.34				128	82	2.10	2,594	11,334	17,910	3,692	1,229	2,954	446	3,989
																29,244						

PROJECT NO.	SHEET NO.
2027CPT.03.03.10651, ETC.	15

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E	4457000000-N	4510000000-N	4685000000-E		4695000000-E	4704000000-E	4709000000-E	4720000000-E	
												WORK ZONE ADVANCE/ GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	4" X 90 M YELLOW THERMO	4" X 90 M WHITE THERMO	8" X 90 M YELLOW THERMO	THERMOPLASTIC PAVEMENT MARKING LINES (16" X 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES (24" X 90 MILS)	THERMO RXR (90 MILS)	THERMO MSG ONLY (90 MIL)
								MI	FT			SF	LS	HR	LF	LF	LF	LF	LF	EA	EA
2027CPT.03.03.10651	NewHanover	1	US-421 / 3RD ST/BURNETT BLVD	FROM W LAKE SHORE DR TO US 17 W (WOOSTER ST) [MP 19.56 - MP 20.61]	1	2	MU	1.05	40	19.56	20.61	128	0.09	160	934	2,384	88	101	310	4	4
TOTAL FOR MAP NO. 1								1.05				128	0.09	160	934	2,384	88	101	310	4	4
2027CPT.03.03.10651	NewHanover	2	US-421 SB / 3RD ST	FROM US 17 E (DAWSON ST) TO GREENFIELD ST [MP 9.00 - MP 9.51]	1	2	MD	0.51	24	9.00	9.51		0.04			2,067		49	60	4	
TOTAL FOR MAP NO. 2								0.51					0.04			2,067		49	60	4	
TOTAL FOR PROJ NO. 2027CPT.03.03.10651								1.56				128	0.13	160	934	4,451	88	150	370	8	4
															5,385					12	
2027CPT.03.03.20651	New Hanover	3	SR-1333 / HERMITAGE RD	FROM NC133 TO SR 2157 (CROWATAN RD) [MP 0.00 - MP 0.83]	2	2	2WU	0.83	20	0.00	0.83		0.07		3,847	7,187					
TOTAL FOR MAP NO. 3								0.83					0.07		3,847	7,187					
2027CPT.03.03.20651	NewHanover	4	SR-2158 / HERMITAGE RD	FROM SR 2157 (CROWATAN RD) TO SR 2159 (CHESTERFIELD RD) [MP 0.00 - MP 0.23]	2	2	2WU	0.23	32	0.00	0.23		0.02		2,428	1,214					
TOTAL FOR MAP NO. 4								0.23					0.02		2,428	1,214					
TOTAL FOR PROJ NO. 2027CPT.03.03.20651								1.06					0.09		6,275						
															14,676						
2027CPT.03.03.20652	New Hanover	5	SR-2734 / MARSH OAKS DR	FROM HWY 17 TO CDS [MP 0.10 - MP 1.06]	3	2	2WU	0.96	32	0.10	1.06		0.08	24	352	15			60		
TOTAL FOR MAP NO. 5								0.96					0.08	24	352	15			60		
2027CPT.03.03.20652	NewHanover	6	SR-2735 / SANDERLING PL	FROM CDS TO CDS [MP 0.00 - MP 0.50]	3	2	2WU	0.50	20	0.00	0.50		0.04								
TOTAL FOR MAP NO. 6								0.50					0.04								
2027CPT.03.03.20652	NewHanover	7	SR-2736 / KOONCE CT	FROM SR 2735 (SANDERLING) TO DEAD END [MP 0.00 - MP 0.06]	3	2	2WU	0.06	24	0.00	0.06		0.01								
TOTAL FOR MAP NO. 7								0.06					0.01								
2027CPT.03.03.20652	NewHanover	8	SR-2800 / TARRANTS CT	FROM SR 2735 (SANDERLING) TO CDS [MP 0.00 - MP 0.02]	3	2	2WU	0.02	24	0.00	0.02		0.002								
TOTAL FOR MAP NO. 8								0.02					0.002								
2027CPT.03.03.20652	New Hanover	9	SR-2780 / GREYTHORNE CT	FROM SR 2734 (MARSH OAKS DR) TO CDS [MP 0.00 - MP 0.05]	3	2	2WU	0.05	24	0.00	0.05		0.003								
TOTAL FOR MAP NO. 9								0.05					0.003								
2027CPT.03.03.20652	New Hanover	10	SR-2756 / DOVE FIELD DR	FROM SR 2611 (QUAIL WOODS RD) TO SR 2722 (BRITTANY LAKES DR) [MP 0.00 - MP 0.19]	4	2	2WU	0.19	20	0.00	0.19		0.02								
TOTAL FOR MAP NO. 10								0.19					0.02								
2027CPT.03.03.20652	NewHanover	11	SR-2611 / QUAIL WOODS RD	FROM CDS TO CDS [MP 0.00 - MP 1.10]	3	2	2WU	1.10	24	0.00	1.10		0.09								
TOTAL FOR MAP NO. 11								1.10					0.09								
2027CPT.03.03.20652	NewHanover	12	SR-1362 / MEADOWVIEW AVE	FROM SR 1361 (CLEWIS AVE) TO DEAD END [MP 0.00 - MP 0.10]	5	2	2WU	0.10	24	0.00	0.10		0.01								
TOTAL FOR MAP NO. 12								0.10					0.01								
2027CPT.03.03.20652	NewHanover	13	SR-2612 / CLOVEY LN	FROM SR 1322 (MURRAYVILLE RD) TO END OF MAINTENANCE [MP 0.00-MP 0.33]	3	2	2WU	0.33	24	0.00	0.33		0.03								
TOTAL FOR MAP NO. 13								0.33					0.03								
2027CPT.03.03.20652	NewHanover	14	SR-1361 / CLEWIS AVE	FROM SR 1322 (MURRAYVILLE RD) TO SR 1362 (MEADOWVIEW AVE) [MP 0.00 - MP 0.11]	5	2	2WU	0.11	18	0.00	0.11		0.01								
TOTAL FOR MAP NO. 14								0.11					0.01								
2027CPT.03.03.20652	NewHanover	15	SR-1002 / HOLLY SHELTER RD	FROM US 117/NC 133 (CASTLE HAYNE RD) TO PENDER COUNTY LINE [MP 0.00 - MP 5.10]	2	2	2WU	5.10	27	0.00	5.10	576	0.41	24	10,000	10,000					
TOTAL FOR MAP NO. 15								5.10				576	0.41	24	10,000	10,000					
2027CPT.03.03.20652	NewHanover	16	SR-1372 / BROOKFIELD DR	FROM SR 2048 (GORDON RD) TO SR 1391 (DELLWOOD DR) [MP 0.00 - MP 0.42]	5	2	2WU	0.42	18	0.00	0.42		0.03								
TOTAL FOR MAP NO. 16								0.42					0.03								
2027CPT.03.03.20652	NewHanover	17	SR-2005 / LORD BYRON RD	FROM CDS TO SR 2018 (FITZGERALD DR) [MP 0.00 - MP 0.78]	5	2	2WU	0.78	18	0.00	0.78		0.06								
TOTAL FOR MAP NO. 17								0.78					0.06								
TOTAL FOR PROJ NO. 2027CPT.03.03.20652								9.72				576	0.78	48	10,352	10,015			60		
															20,367						
GRAND TOTAL								12.34				704	1	208	17,561	22,867	88	150	430	8	4
															40,428					12	

THERMOPLASTIC AND PAINT QUANTITIES

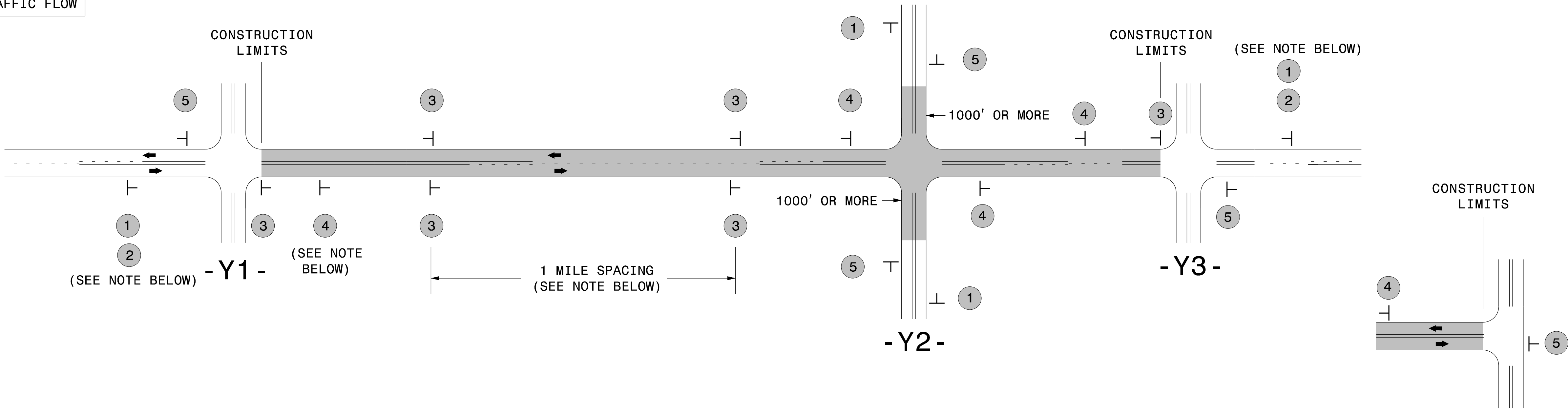
												4725000000-E					4895000000-N	4900000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	THERMO STR ARROW (90 MIL)	THERMO RT ARROW (90 MIL)	THERMO LT ARROW (90 MIL)	THERMO STR & RT ARROW (90 MIL)	THERMO STR & LT ARROW (90 MIL)	POLYCARBONATE H-SHAPED MARKER (C/R)	YELLOW & YELLOW MARKERS
								MI	FT									
2027CPT.03.03.10651	NewHanover	1	US-421 / 3RD ST/BURNETT BLVD	FROM W LAKE SHORE DR TO US 17 W (WOOSTER ST) [MP 19.56 - MP 20.61]	1	2	MU	1.05	40	19.56	20.61	14	2	3	9	9	107	
TOTAL FOR MAP NO. 1								1.05				14	2	3	9	9	107	
2027CPT.03.03.10651	NewHanover	2	US-421 SB / 3RD ST	FROM US 17 E (DAWSON ST) TO GREENFIELD ST [MP 9.00 - MP 9.51]	1	2	MD	0.51	24	9.00	9.51	12	2	8	10	10	35	
TOTAL FOR MAP NO. 2								0.51				12	2	8	10	10	35	
TOTAL FOR PROJ NO. 2027CPT.03.03.10651								1.56				26	4	11	19	19	142	
												79						
2027CPT.03.03.20651	New Hanover	3	SR-1333 / HERMITAGE RD	FROM NC133 TO SR 2157 (CROWATAN RD) [MP 0.00 - MP 0.83]	2	2	2WU	0.83	20	0.00	0.83							54
TOTAL FOR MAP NO. 3								0.83										54
2027CPT.03.03.20651	NewHanover	4	SR-2158 / HERMITAGE RD	FROM SR 2157 (CROWATAN RD) TO SR 2159 (CHESTERFIELD RD) [MP 0.00 - MP 0.23]	2	2	2WU	0.23	32	0.00	0.23							15
TOTAL FOR MAP NO. 4								0.23										15
TOTAL FOR PROJ NO. 2027CPT.03.03.20651								1.06										69
2027CPT.03.03.20652	New Hanover	5	SR-2734 / MARSH OAKS DR	FROM HWY 17 TO CDS [MP 0.10 - MP 1.06]	3	2	2WU	0.96	32	0.10	1.06							
TOTAL FOR MAP NO. 5								0.96										
2027CPT.03.03.20652	NewHanover	6	SR-2735 / SANDERLING PL	FROM CDS TO CDS [MP 0.00 - MP 0.50]	3	2	2WU	0.50	20	0.00	0.50							
TOTAL FOR MAP NO. 6								0.50										
2027CPT.03.03.20652	NewHanover	7	SR-2736 / KOONCE CT	FROM SR 2735 (SANDERLING) TO DEAD END [MP 0.00 - MP 0.06]	3	2	2WU	0.06	24	0.00	0.06							
TOTAL FOR MAP NO. 7								0.06										
2027CPT.03.03.20652	NewHanover	8	SR-2800 / TARRANTS CT	FROM SR 2735 (SANDERLING) TO CDS [MP 0.00 - MP 0.02]	3	2	2WU	0.02	24	0.00	0.02							
TOTAL FOR MAP NO. 8								0.02										
2027CPT.03.03.20652	New Hanover	9	SR-2780 / GREYTHORNE CT	FROM SR 2734 (MARSH OAKS DR) TO CDS [MP 0.00 - MP 0.05]	3	2	2WU	0.05	24	0.00	0.05							
TOTAL FOR MAP NO. 9								0.05										
2027CPT.03.03.20652	New Hanover	10	SR-2756 / DOVE FIELD DR	FROM SR 2611 (QUAIL WOODS RD) TO SR 2722 (BRITTANY LAKES DR) [MP 0.00 - MP 0.19]	4	2	2WU	0.19	20	0.00	0.19							
TOTAL FOR MAP NO. 10								0.19										
2027CPT.03.03.20652	NewHanover	11	SR-2611 / QUAIL WOODS RD	FROM CDS TO CDS [MP 0.00 - MP 1.10]	3	2	2WU	1.10	24	0.00	1.10							
TOTAL FOR MAP NO. 11								1.10										
2027CPT.03.03.20652	NewHanover	12	SR-1362 / MEADOWVIEW AVE	FROM SR 1361 (CLEWIS AVE) TO DEAD END [MP 0.00 - MP 0.10]	5	2	2WU	0.10	24	0.00	0.10							
TOTAL FOR MAP NO. 12								0.10										
2027CPT.03.03.20652	NewHanover	13	SR-2612 / CLOVEY LN	FROM SR 1322 (MURRAYVILLE RD) TO END OF MAINTENANCE [MP 0.00-MP 0.33]	3	2	2WU	0.33	24	0.00	0.33							
TOTAL FOR MAP NO. 13								0.33										
2027CPT.03.03.20652	NewHanover	14	SR-1361 / CLEWIS AVE	FROM SR 1322 (MURRAYVILLE RD) TO SR 1362 (MEADOWVIEW AVE) [MP 0.00 - MP 0.11]	5	2	2WU	0.11	18	0.00	0.11							
TOTAL FOR MAP NO. 14								0.11										
2027CPT.03.03.20652	NewHanover	15	SR-1002 / HOLLY SHELTER RD	FROM US 117/NC 133 (CASTLE HAYNE RD) TO PENDER COUNTY LINE [MP 0.00 - MP 5.10]	2	2	2WU	5.10	27	0.00	5.10							63
TOTAL FOR MAP NO. 15								5.10										63
2027CPT.03.03.20652	NewHanover	16	SR-1372 / BROOKFIELD DR	FROM SR 2048 (GORDON RD) TO SR 1391 (DELLWOOD DR) [MP 0.00 - MP 0.42]	5	2	2WU	0.42	18	0.00	0.42							
TOTAL FOR MAP NO. 16								0.42										
2027CPT.03.03.20652	NewHanover	17	SR-2005 / LORD BYRON RD	FROM CDS TO SR 2018 (FITZGERALD DR) [MP 0.00 - MP 0.78]	5	2	2WU	0.78	18	0.00	0.78							
TOTAL FOR MAP NO. 17								0.78										
TOTAL FOR PROJ NO. 2027CPT.03.03.20652								9.72										63
GRAND TOTAL								12.34				26	4	11	19	19	142	132
												79						

SIGNING FOR RESURFACING PROJECTS

LEGEND

STATIONARY SIGN

DIRECTION OF TRAFFIC FLOW



TEE INTERSECTION

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1 ROAD WORK AHEAD W20-1 48" X 48" NEXT XX MILES W7-3aP 24" X 18" PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. #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)	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, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.
	3 LOW/SOFT SHOULDER SP 13107 48" X 48" - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
	4 ROAD UNDER CONST 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. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.	
	5 END ROAD WORK G20-2 A 48" X 24" 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.	
LESS 2 MILES	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.	

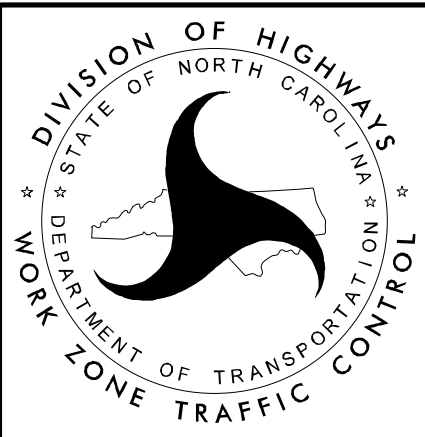
DIVISION OF HIGHWAYS

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

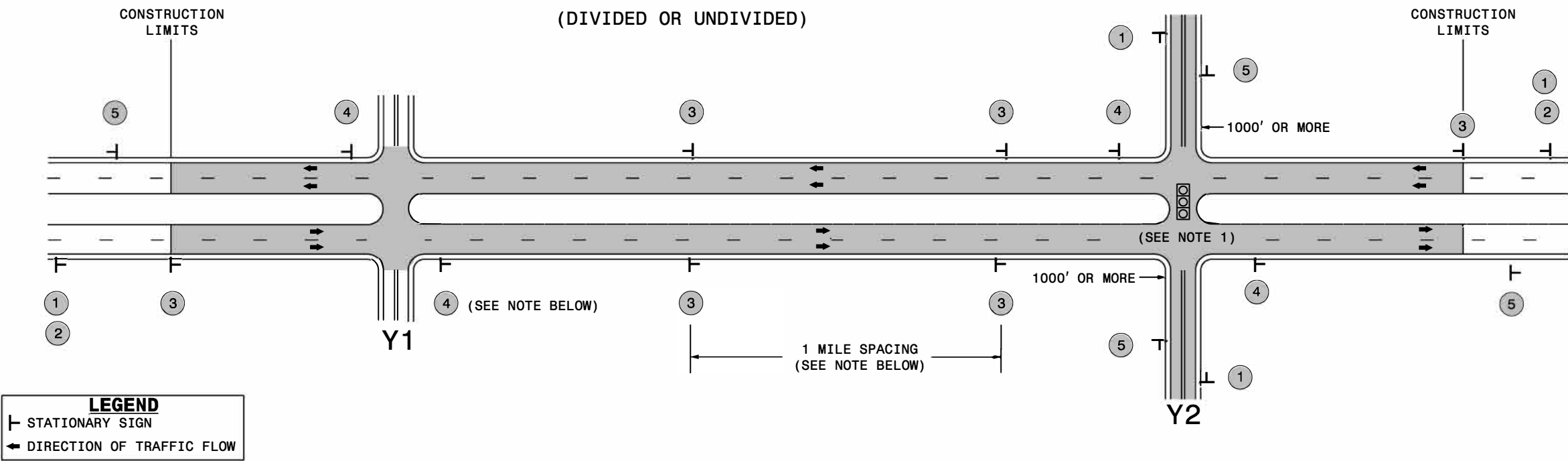
WORK ZONE TRAFFIC CONTROL

AD



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

SIGNING FOR RURAL AND SUBURBAN MULTI-LANE
ROADWAYS WITH SHOULDER SECTIONS
(DIVIDED OR UNDIVIDED)



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1 2 PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. #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)	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. NOTES: 1) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
	3 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 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.	



RESURFACING
ADVANCE WARNING SIGNS
FOR RURAL AND SUBURBAN
MULTI-LANE ROADWAYS
W/ SHOULDER SECTIONS
(DIVIDED OR UNDIVIDED)

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

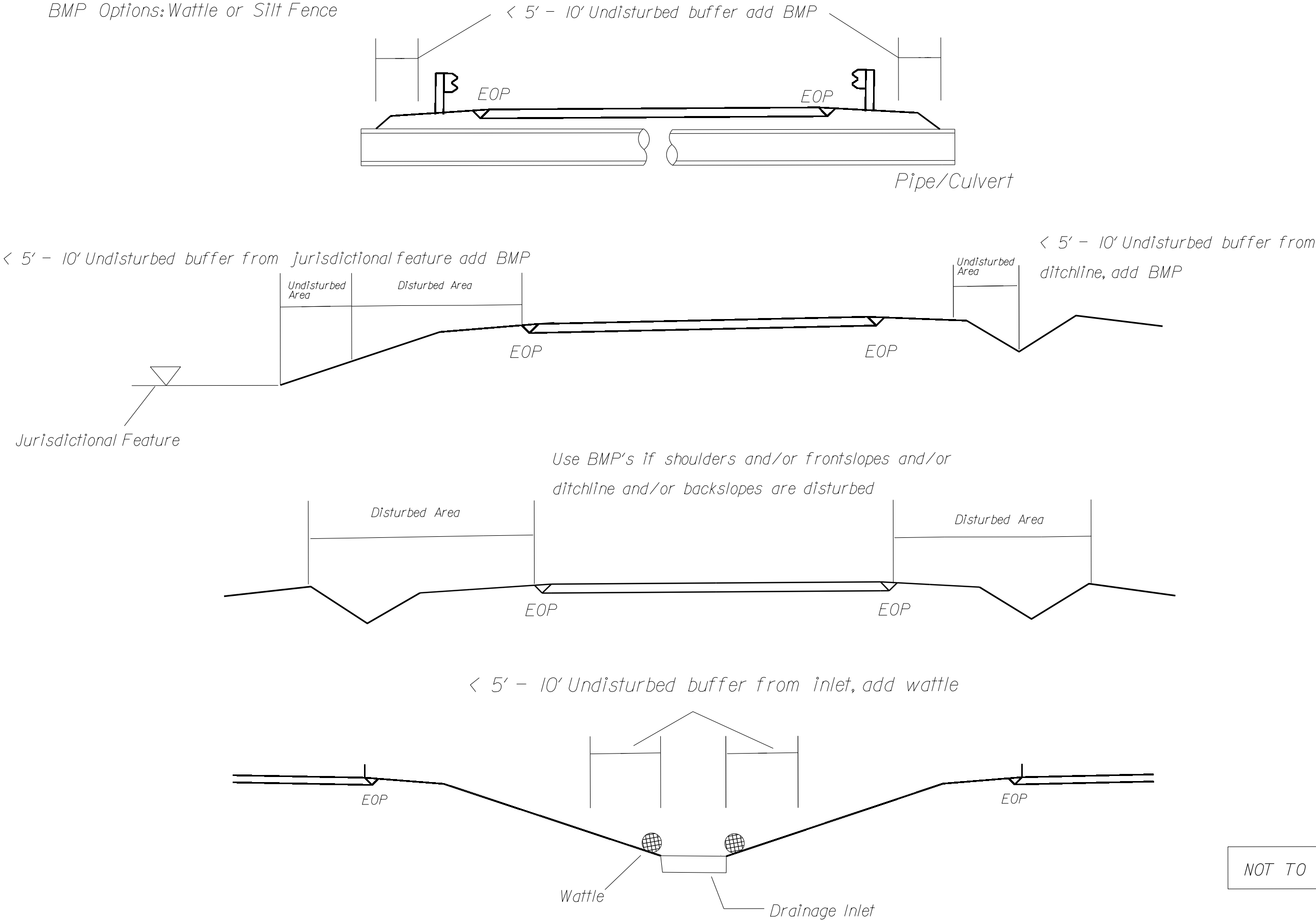
SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
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.

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

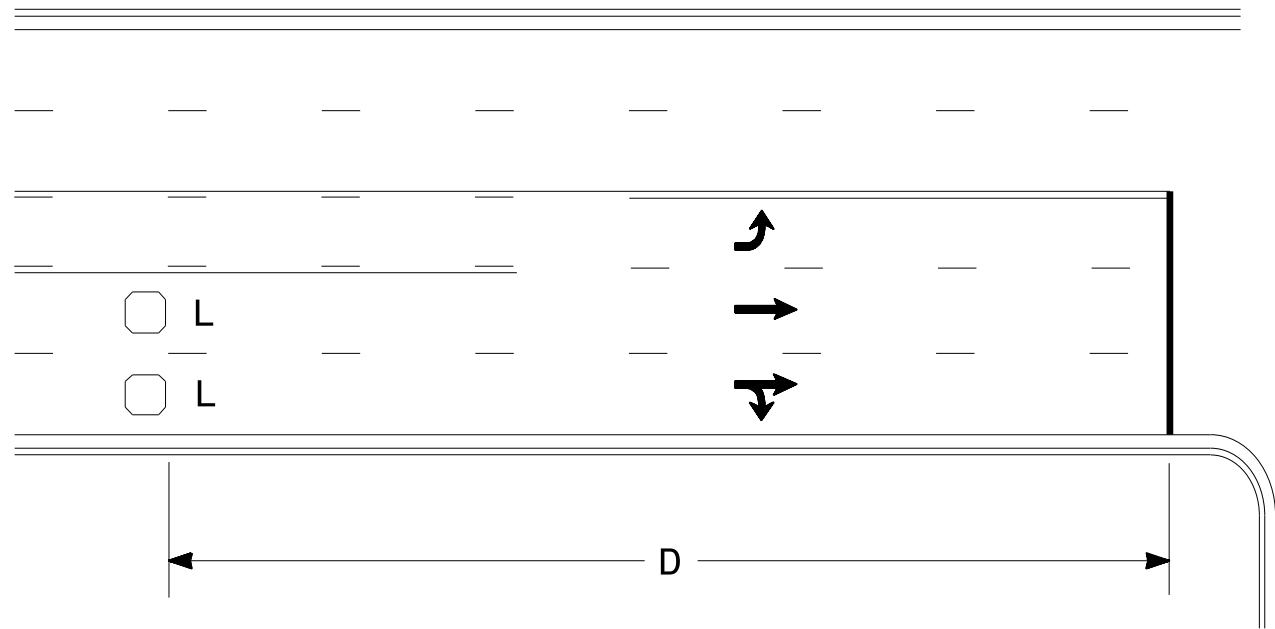
BMP Options: Wattle or Silt Fence

EROSION CONTROL DETAIL



NOT TO SCALE

High Speed Detection
(≥35 mph)

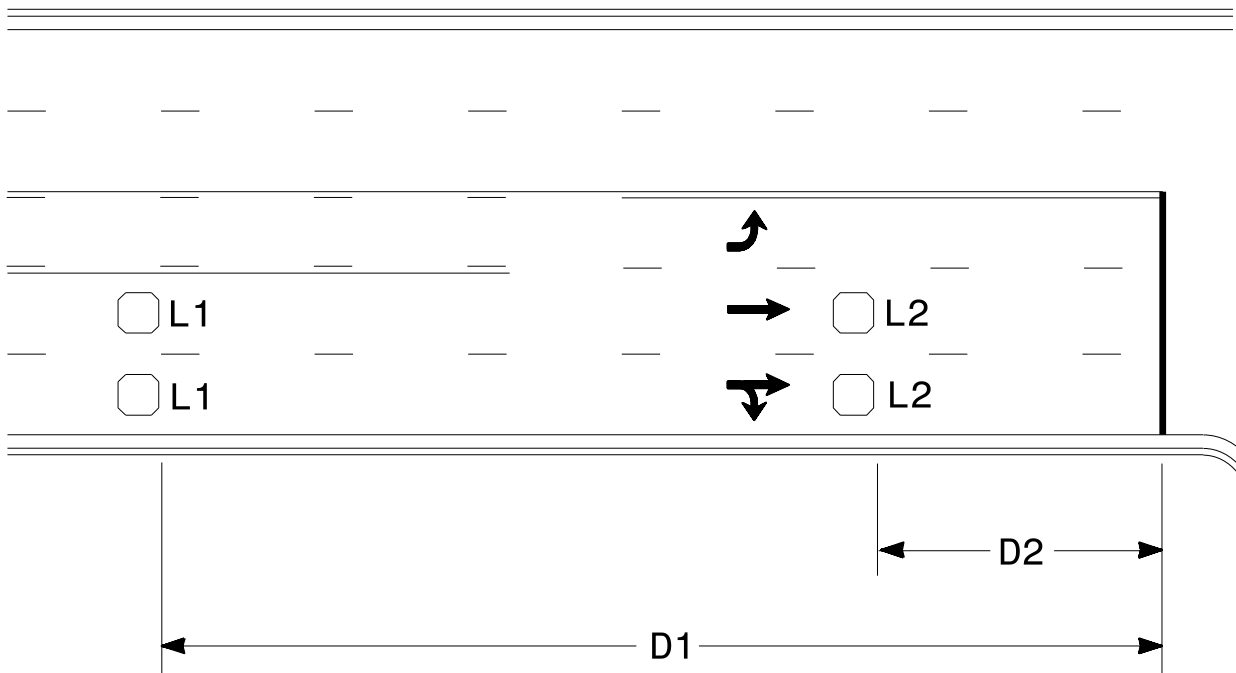


Speed Limit mph	D ft
35	200
40	250
45	300
50	355
55	420
60	475
65	550

L = 6ft X 6ft
Wired separately

Volume Density Operation

OR



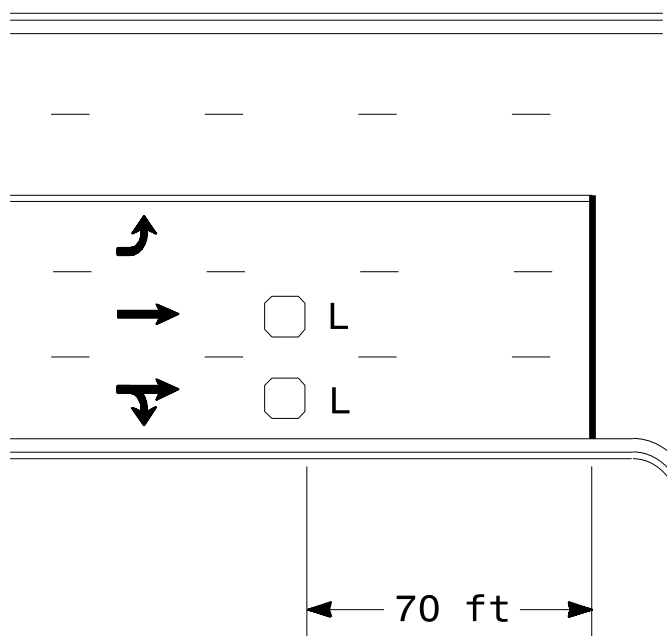
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110
60	475	120
65	550	130

L1 = 6ft X 6ft
Wired in series

L2 = 6ft X 6ft
Wired in series

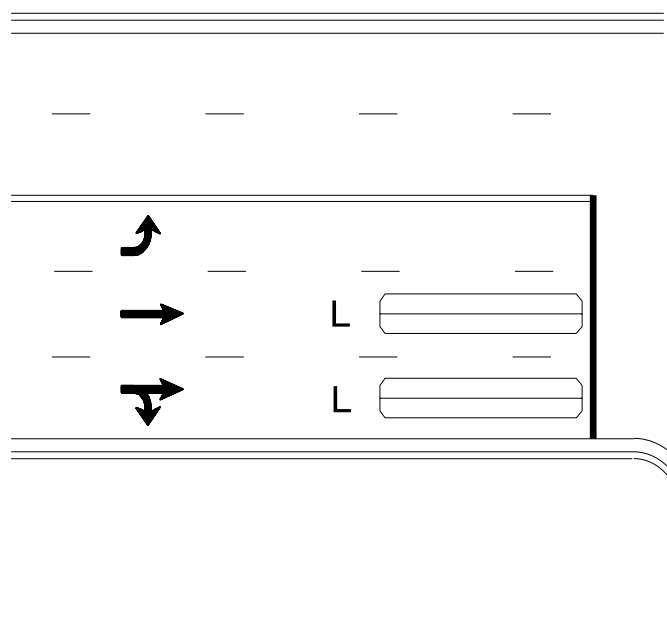
"Stretch" Operation

Low Speed Detection
(≤35 mph)



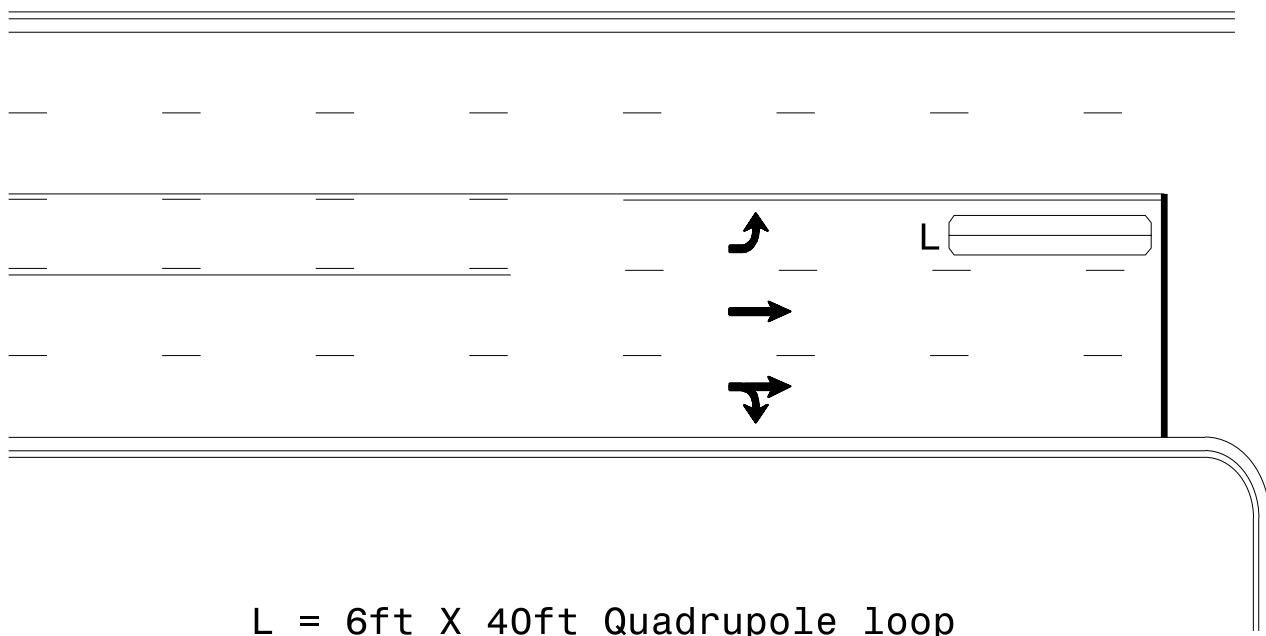
L = 6ft X 6ft
Wired in series

OR



L = 6ft X 40ft
Quadrupole loop, wired separately

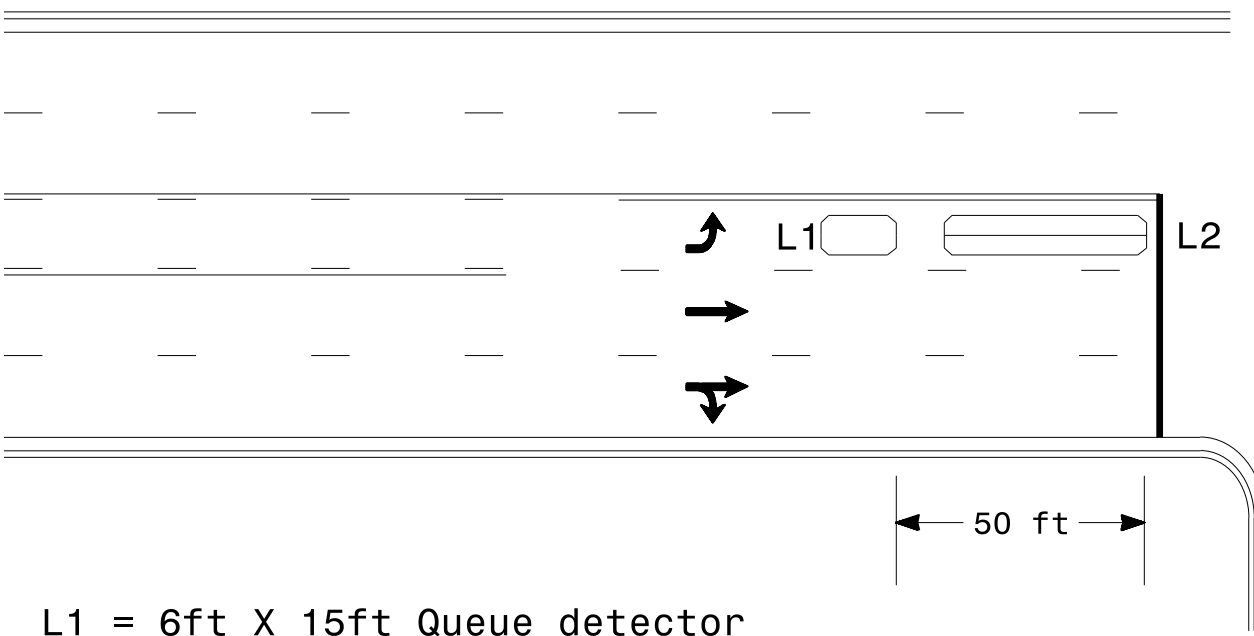
Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

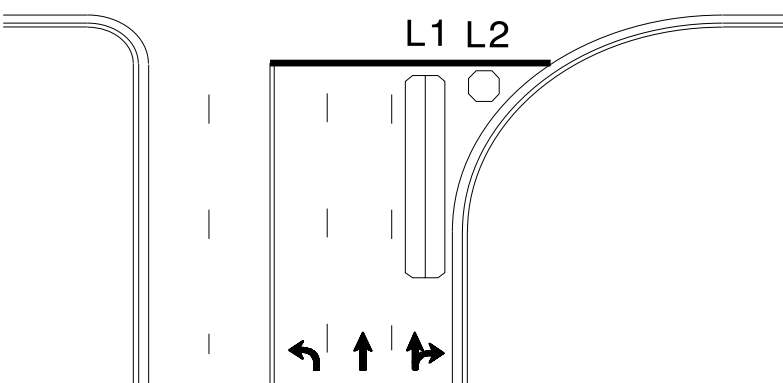
OR



L1 = 6ft X 15ft Queue detector
L2 = 6ft X 40ft Quadrupole loop

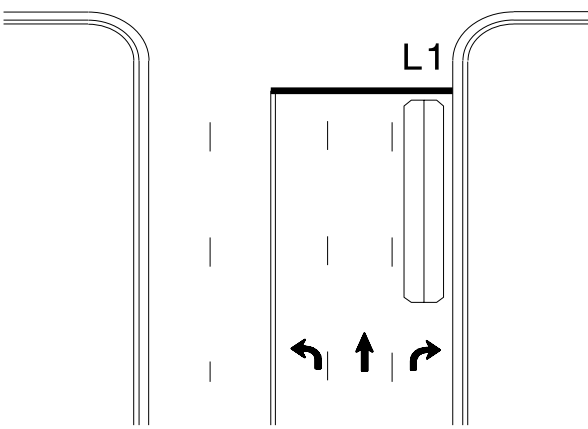
Queue Loop Detection

Right Turn Lane Detection

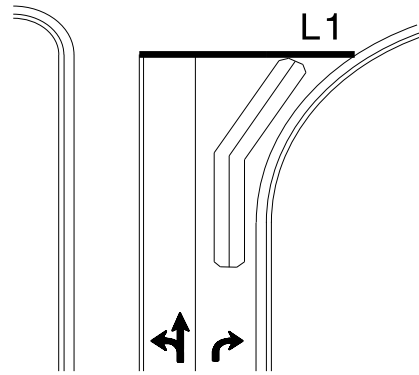


Shared Lane/
Wide Radius Turn

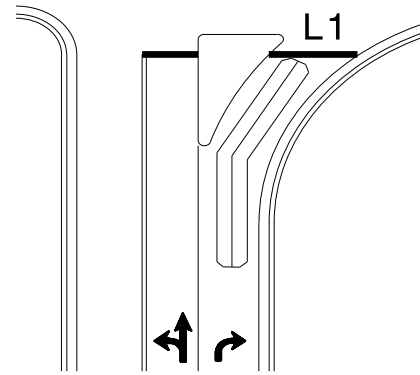
L1 = 6ft X 40ft Quadrupole loop
L2 = 6ft X 6ft [Minimum] Presence loop
Wired separately



Standard Turn

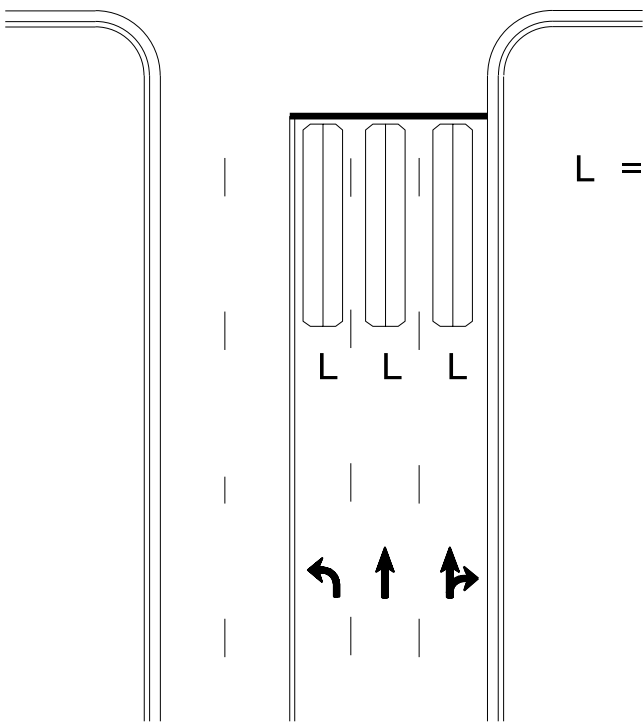


Wide Radius Turn



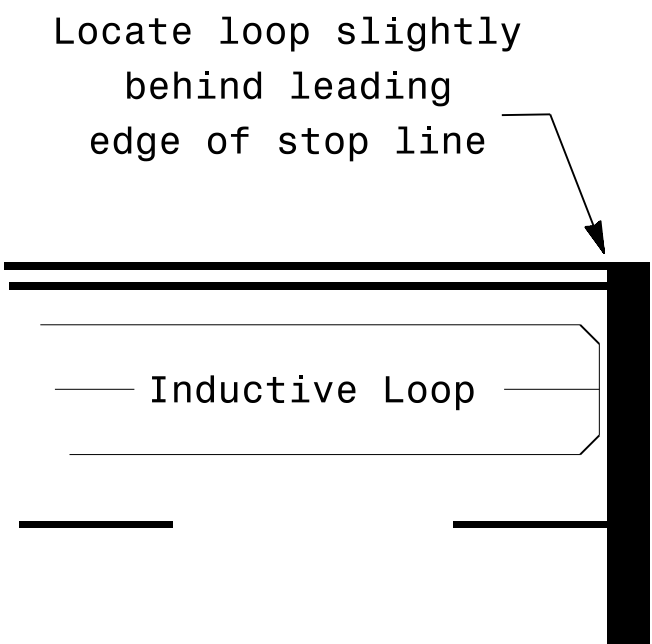
Channelized Turn

Side Street Detection



L = 6ft X 40ft
Quadrupole loop
Wired to separate
detectors/channels

Presence Loop Placement at Stop Lines



Locate loop slightly
behind leading
edge of stop line

Inductive Loop

- Note:
Loop may be located in advance
of stop line under any of the
following conditions:
- 1) stop line is greater than 15'
from edge of intersecting
roadway
 - 2) loop detects a permissive or
protected/permissive left turn
 - 3) for an exclusive right turn
lane

Recommended Number of Turns

Single 6' X 6' loop
(when wired separately):

Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375-525	5
> 525	6

Quadrupole loops: Use 2-4-2 turns

6' X 15' Loops:

- Lead-in < 150', use 2 turns
Lead-in > 150', use 3 turns

	Typical Signal Loop Locations		SEAL NORTH CAROLINA PROFESSIONAL ENGINEER ROBERT J. ZIEMBA 026486	
	PLAN DATE: September 2025	REVIEWED BY:	INIT.	DATE
	PREPARED BY: J.A. Lohr	REVIEWED BY:		
	SCALE N/A	REVISIONS		

SIG. INVENTORY NO.