



WBS NO: 2026CPT.03.10.10671, ETC.

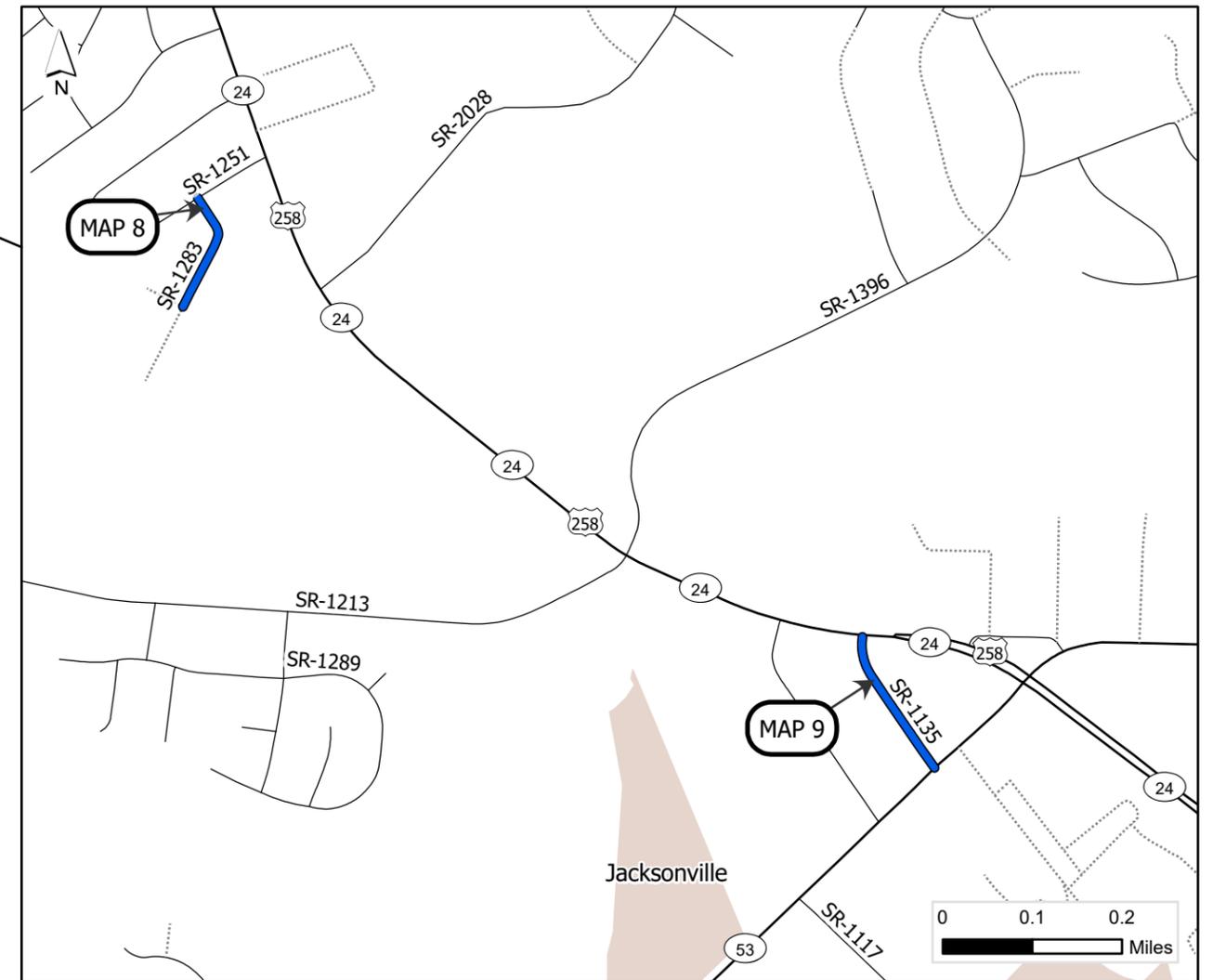
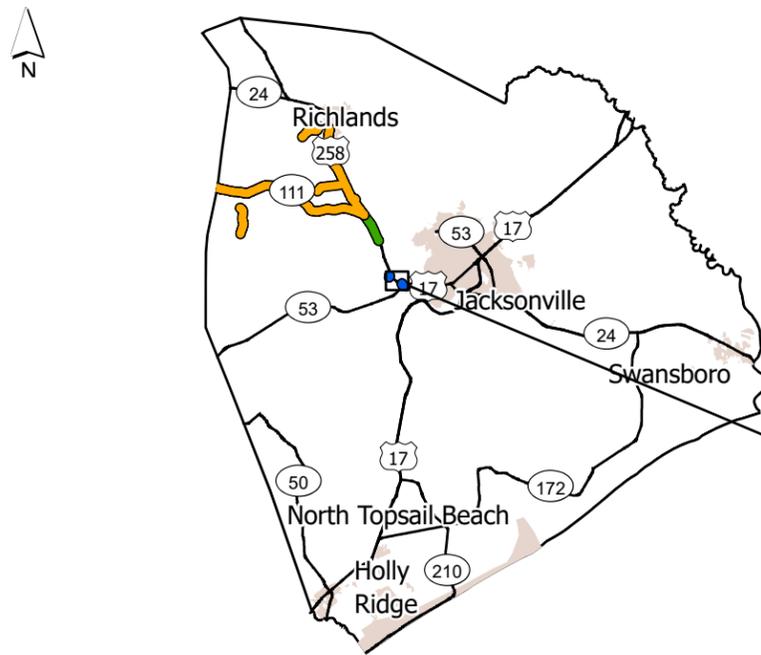
CONTRACT: C205175

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**ONSLOW COUNTY**

*TYPE OF WORK: PRESERVATION*

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2026CPT.03.10.10671, ETC.	2
STATE PROJECT NUMBER		DESCRIPTION

 Preservation



MAP	ROUTE	DESCRIPTION	TYPE
8	SR-1283 / DRESSLER DR	FROM SR 1251 (GREENCREST CIR) TO END OF MAINTENANCE [MP 0.00 - MP 0.14]	Preservation
9	SR-1135 / MORNINGSIDE DR	FROM NC HWY 53 (BURGAU HWY) TO US HWY 258 / NC HWY 24 (RICHLANDS HWY) [MP 0.00 - MP 0.17]	Preservation

**PROJECT LENGTH**

MAP	MILES
8	0.14
9	0.17

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.



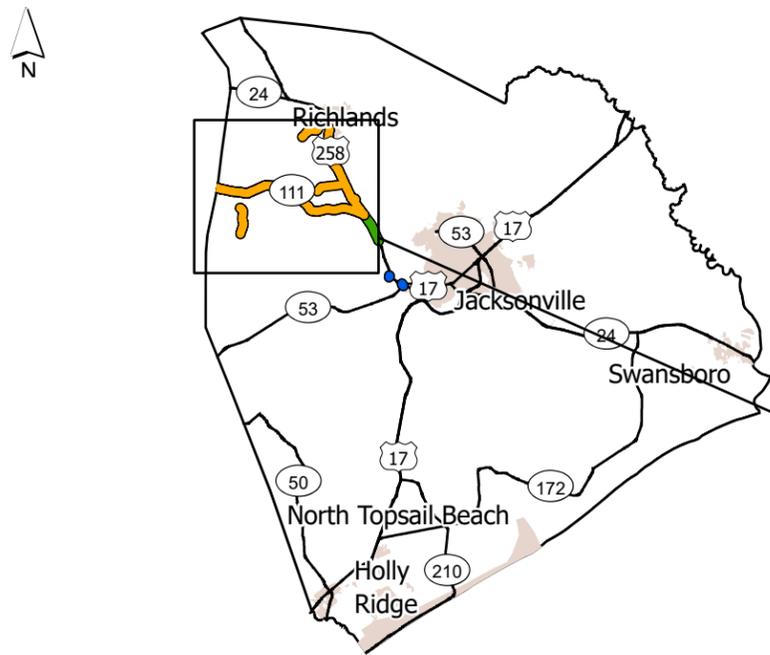
HS-2403AD

WBS NO: 50975.3.31

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**ONSLOW COUNTY**

*TYPE OF WORK: WIDENING, THERMOPLASTIC MARKINGS  
 AND RUMBLE INSTALLATION*

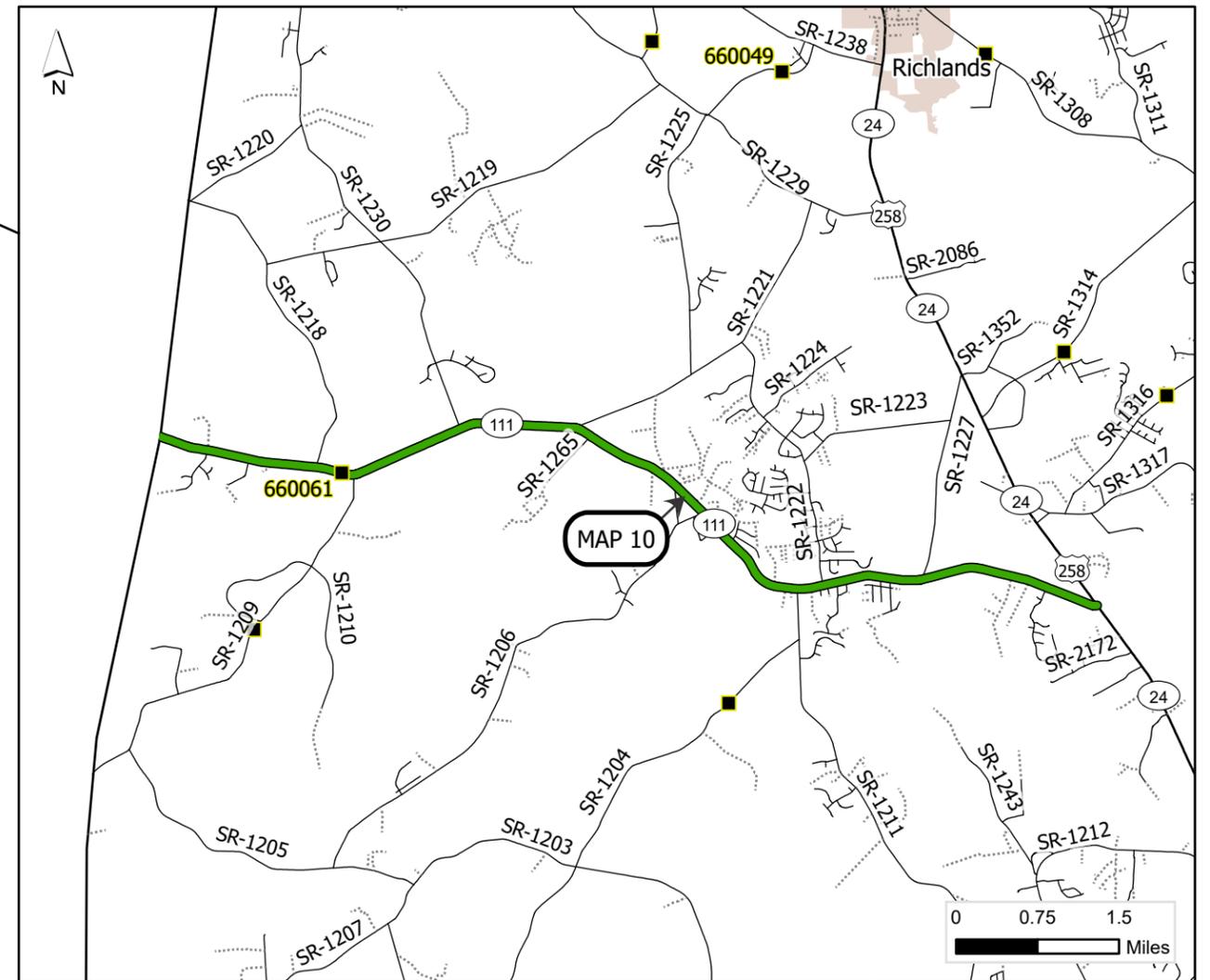
STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2026CPT.03.10.10671, ETC.	3
STATE PROJECT NUMBER		DESCRIPTION



- Division 3 Bridges
- 14" CL, 8" EL

MAP	ROUTE	DESCRIPTION	TYPE
10	NC-111 / CATHERINE LAKE ROAD	FROM US HWY 258 / NC HWY 24 (RICHLANDS HWY) TO DUPLIN COUNTY LINE [MP 0.00 - MP 9.41]	14" CL, 8" EL

\*RUMBLE INSTALLATION EXCLUDES PORTIONS WITH EXISTING CURB & GUTTER.  
 REFERENCE DETAIL ON SHEET 6.



**PROJECT LENGTH**

MAP	MILES
10	9.41

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

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HS-2403T

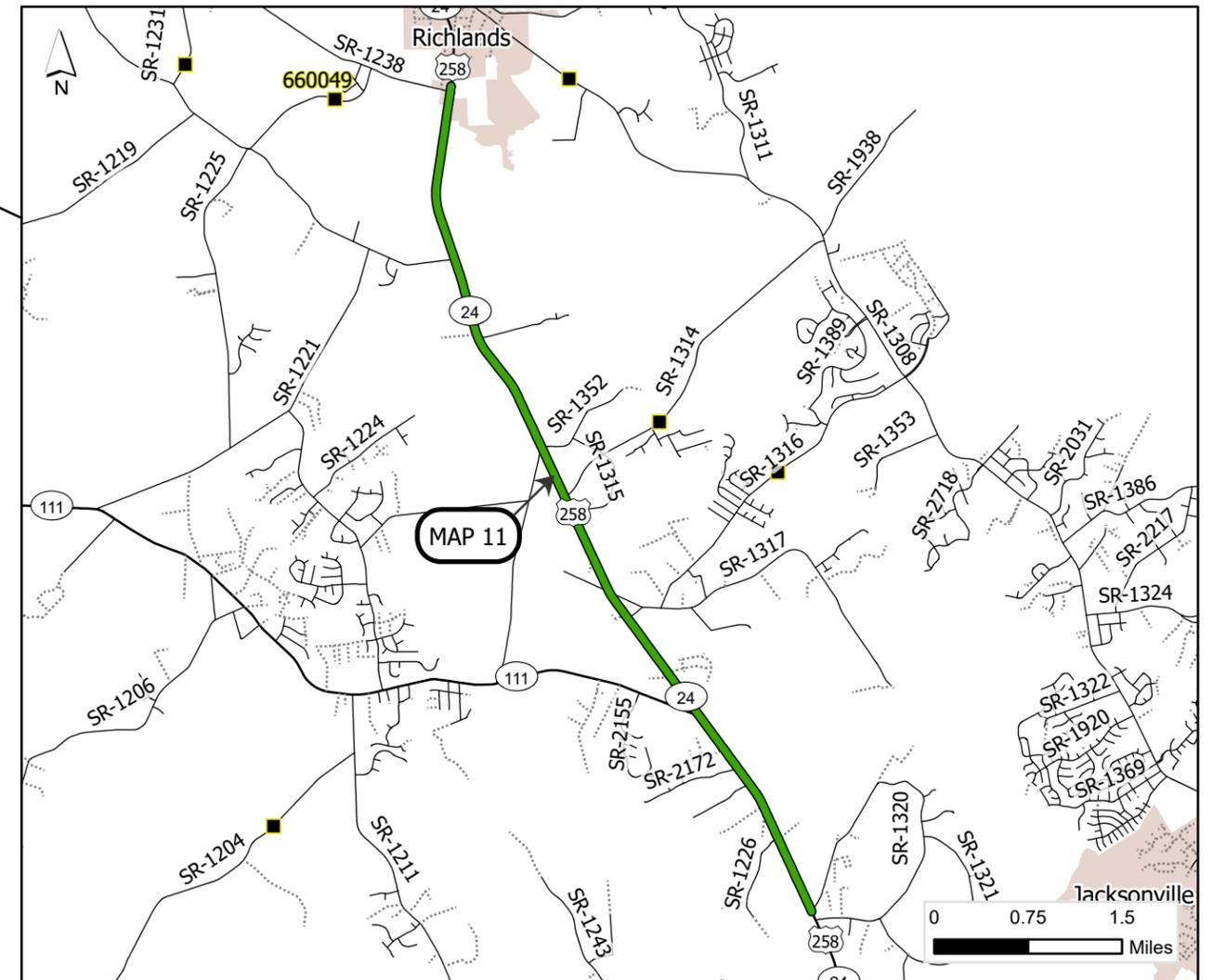
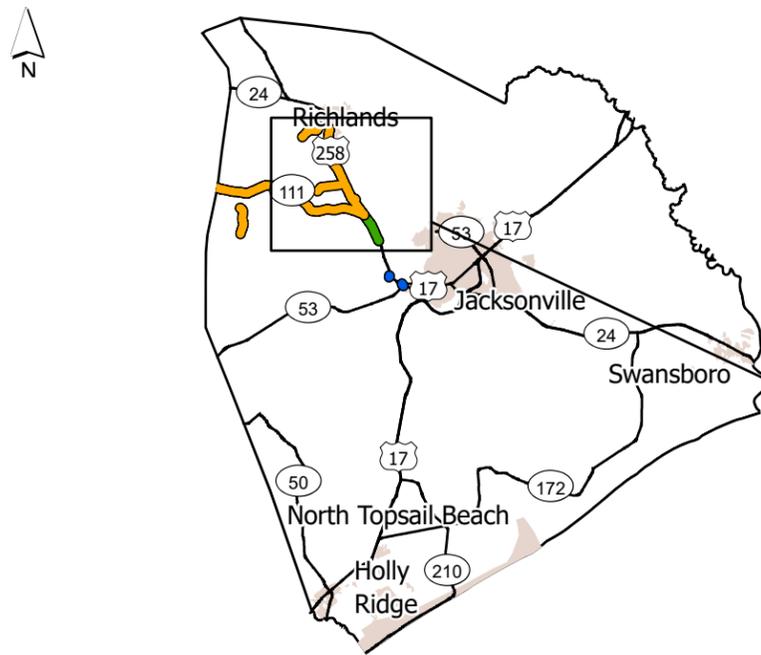
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STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**ONSLOW COUNTY**

*TYPE OF WORK: THERMOPLASTIC MARKINGS AND  
 RUMBLE INSTALLATION*

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2026CPT.03.10.10671, ETC.	4
STATE PROJECT NUMBER		DESCRIPTION

- Division 3 Bridges
- 8" SH RUMBLE



MAP	ROUTE	DESCRIPTION	TYPE
11	US-258 / NC HWY 24 / RICHLANDS HWY	FROM SR 1320 (WELLS RD) TO SR 1238 (KOONCE FORK RD) [MP 4.59 - MP 11.98]	8" SH RUMBLE

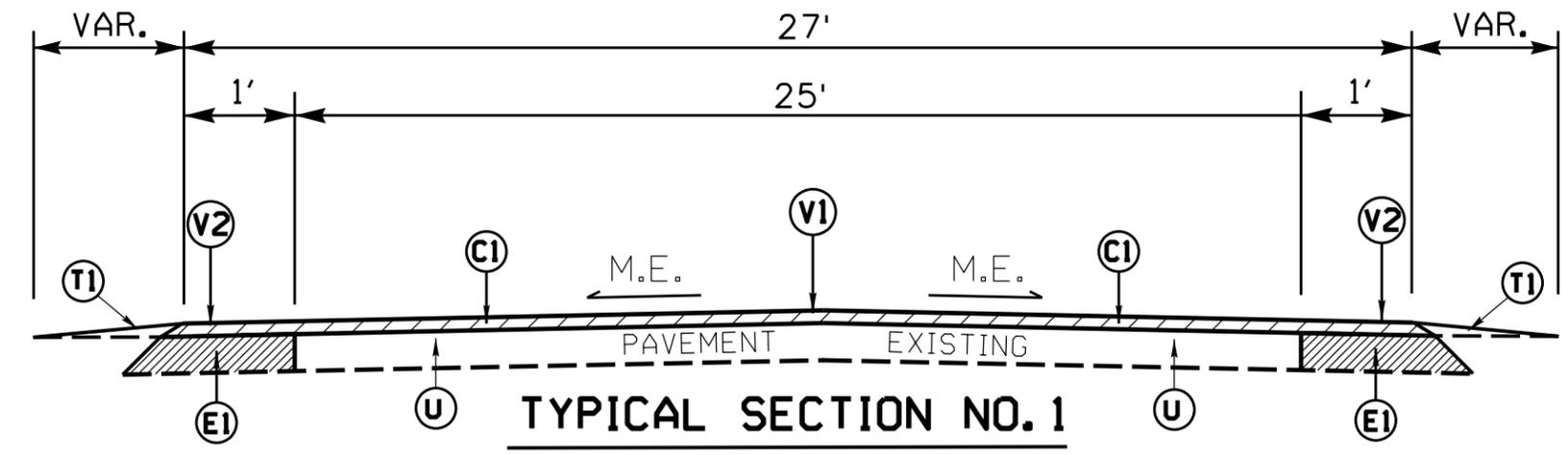
\*RUMBLE INSTALLATION EXCLUDES PORTIONS WITH EXISTING CURB & GUTTER. REFERENCE DETAIL ON SHEET 6.

<b>PROJECT LENGTH</b>	
MAP	MILES
11	7.39

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

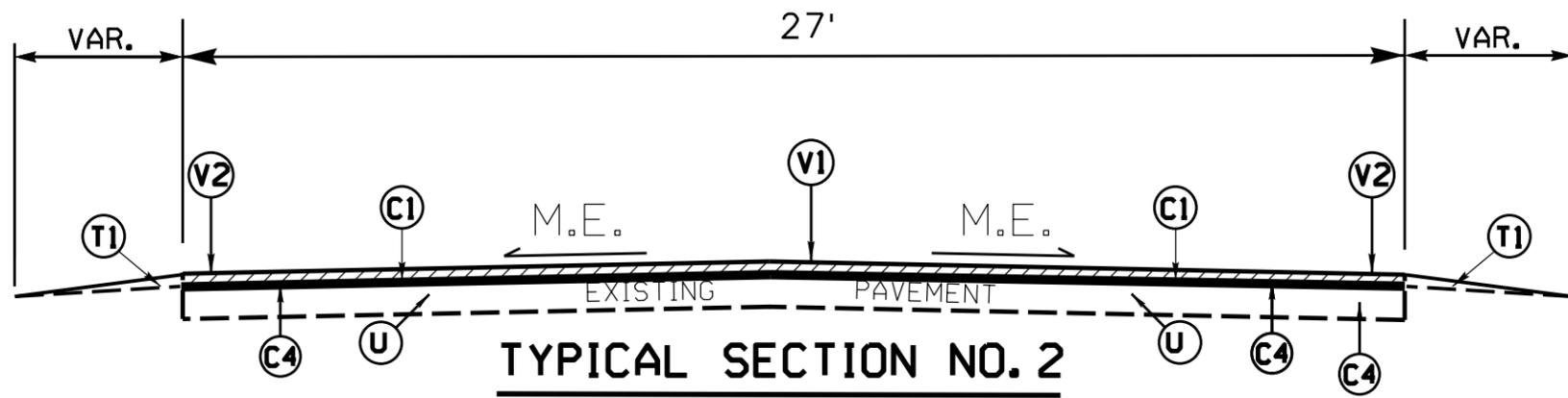
This exhibit does not meet NC 47-30 requirements and therefore is not intended for design, construction, or recording or transfer of title.





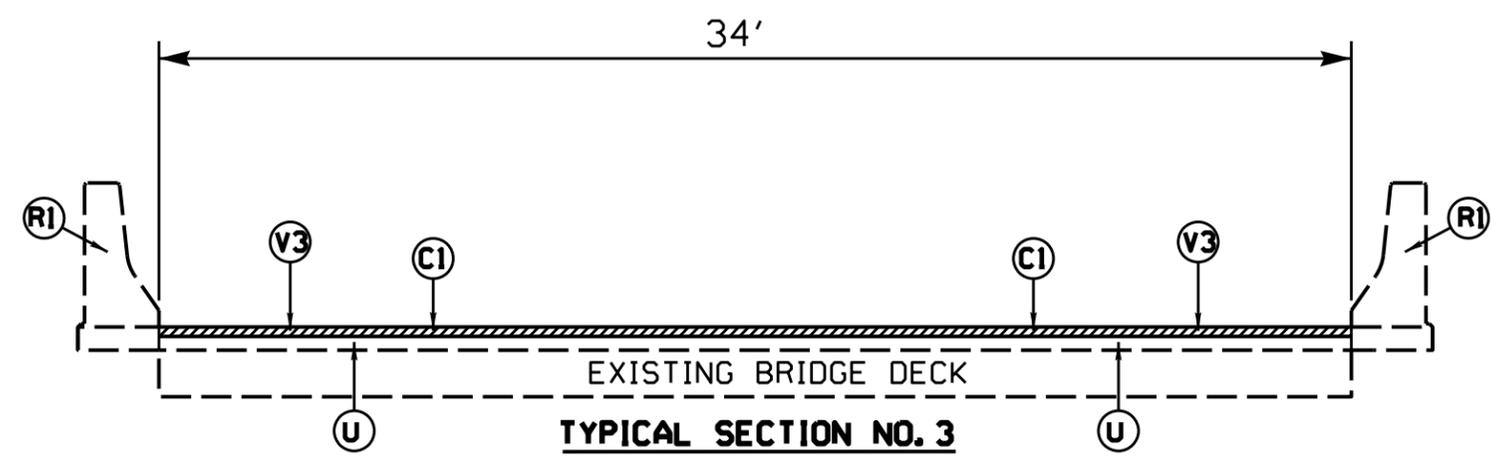
MAP NO. 1 & MAP NO. 10  
 NC 111 (CATHERINE LAKE RD)  
 MP 5.77 - MP 9.41

**(V3)** FRIS MILL 1-1/2"  
 MP 8.99 - MP 9.08



MAP NO. 2 & MAP NO. 10  
 NC 111 (CATHERINE LAKE RD)  
 MP 0.00 - MP 4.72

**(C4)** INTERLAYER 1"  
 MP 0.00 - MP 4.02



MAP NO. 1  
 NC 111 HWY,  
 BRIDGE NO. 061  
 MP 7.68 - MP 7.70

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
C2	PROP. APPROX. 1 1/2" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
C3	PROP. APPROX. 1 1/4" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ.YD.
C4	PROP. APPROX. 1" DEPTH ASPHALT MAT COAT, TYPE *78M STONE.
E1	PROP. APPROX. 5" DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ.YD.
R1	EXISTING BRIDGE BARRIER
R2	EXISTING CURB & GUTTER
T1	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT
V1	14" SINUSOIDAL MILLED RUMBLE STRIPE, CENTERLINE
V2	8" SINUSOIDAL MILLED RUMBLE STRIP, EDGELINE WITH BICYCLE PATTERN
V3	1 1/2" MILLING DEPTH
V4	0" - 1 1/2" VARIABLE MILLING
V5	0" - 1 1/4" VARIABLE MILLING

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

SHOULDER WORK ON MAP NO. 1 - 7 AS NEEDED, TO BE DETERMINED BY ENGINEER.

THE CONTRACTOR SHALL RETAIN EXISTING LANE WIDTHS.

REINSTALL PAVEMENT MARKINGS PER 2024 STANDARDS.

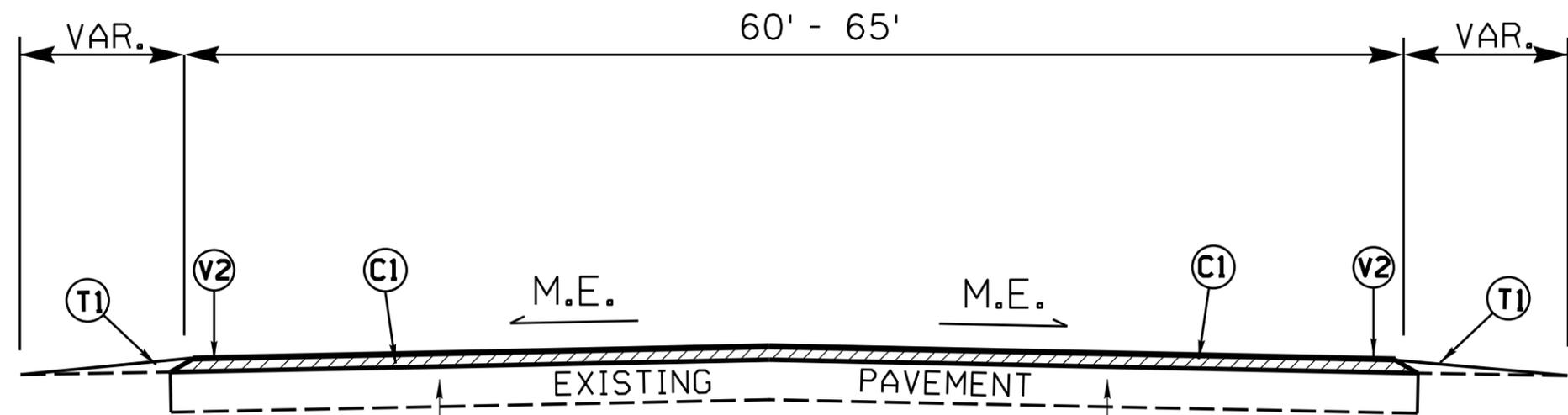
RUMBLE/WIDENING INSTALLED  
 MAP NO. 10 WBS 50975.3.31

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

SR	ROUTENAME	MP	LANEWIDTH
NC111	CATHERINELAKERD	5.77 - 9.41	11-12

REVISIONS

8/17/99  
 SYSTEM TIME 8:55:55  
 2026CPT.03.10.10671,ETC.



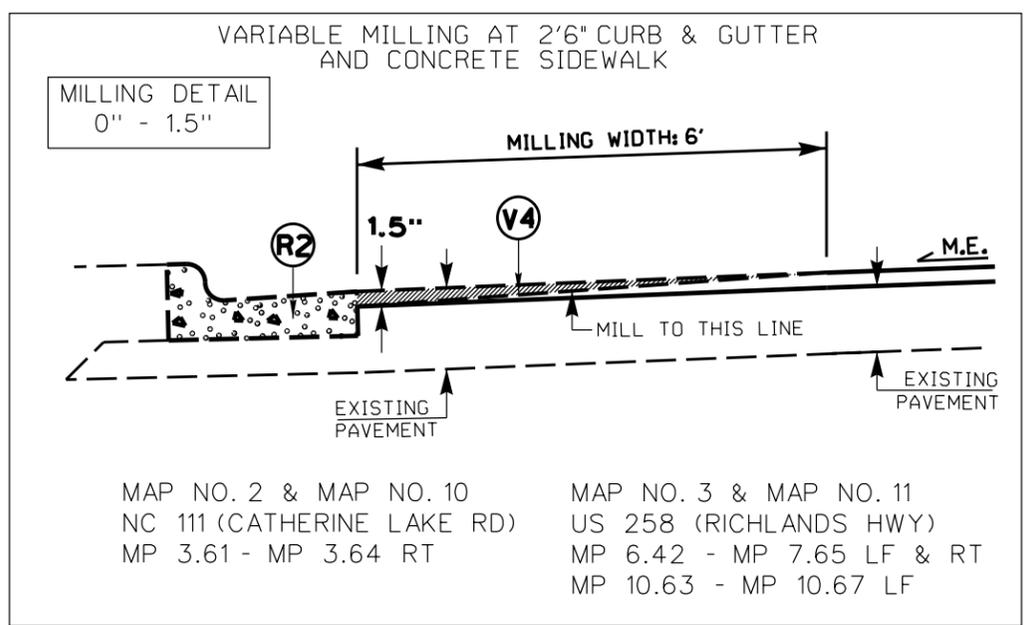
**TYPICAL SECTION NO. 4**

MAP NO. 3 & MAP NO. 11  
 US 258 (RICHLANDS HWY)  
 MP 6.32 - MP 11.98

V3 FRIS MILL 1-1/2"  
 MP 9.51 - MP 9.65

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
R2	EXISTING CURB & GUTTER
T1	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT
V2	8' SINUSOIDAL MILLED RUMBLE STRIP, EDGELINE WITH BICYCLE PATTERN
V3	1 1/2" MILLING DEPTH
V4	0" - 1 1/2" VARIABLE MILLING

- NOTES:** MILL A SINGLE LANE AND PAVE BACK BY THE END OF EACH WORK DAY.
- SHOULDER WORK ON MAP NO. 1 - 7 AS NEEDED, TO BE DETERMINED BY ENGINEER.
- THE CONTRACTOR SHALL RETAIN EXISTING LANE WIDTHS.
- REINSTALL PAVEMENT MARKINGS PER 2024 STANDARDS.
- RUMBLE/WIDENING INSTALLED  
 MAP NO. 11 WBS 50975.3.21
- PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE. SEE SHOULDER WEDGE DETAIL.

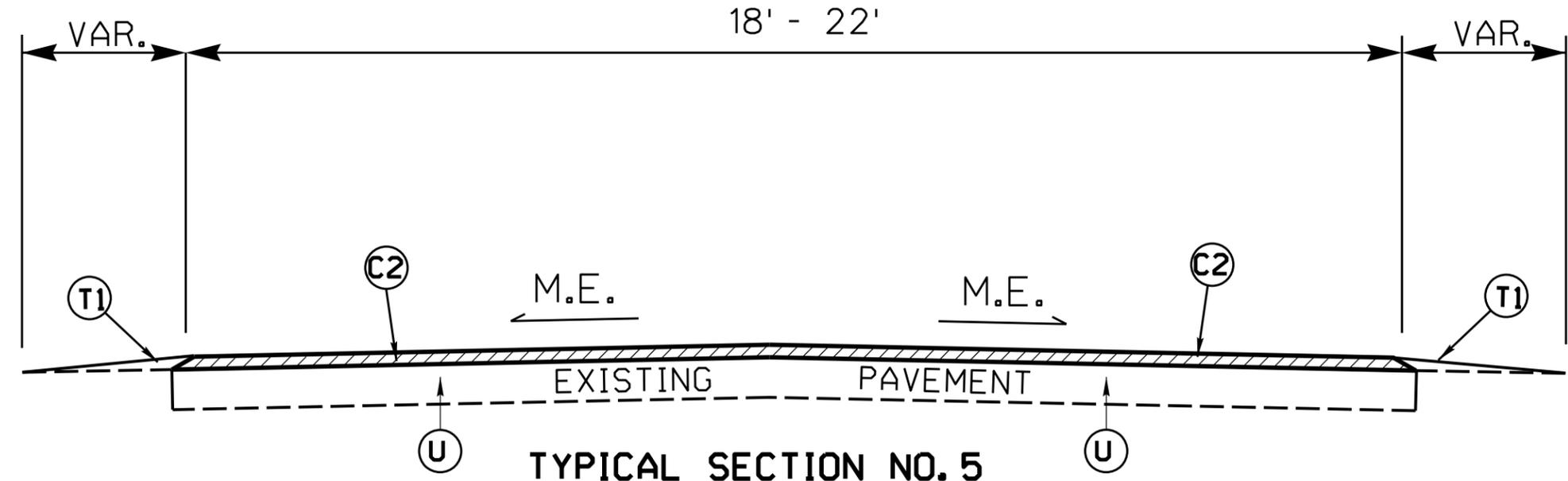


MAP NO. 2 & MAP NO. 10  
 NC 111 (CATHERINE LAKE RD)  
 MP 3.61 - MP 3.64 RT

MAP NO. 3 & MAP NO. 11  
 US 258 (RICHLANDS HWY)  
 MP 6.42 - MP 7.65 LF & RT  
 MP 10.63 - MP 10.67 LF

REVISIONS

8/17/99  
 SYSTEMS



**TYPICAL SECTION NO. 5**

MAP NO. 4 SR 1210 FUTRELL RD MP 1.32 - MP 2.98	MAP NO. 5 SR 1225 TURTLE SHELL RD MP 2.53 - MP 3.83	(V3) FRIS MILL 1-1/2" MP 3.18 - MP 3.65
MAP NO. 6 SR 1223 DUFFY FIELD RD MP 0.00 - MP 1.46	MAP NO. 7 SR 1317 BRIARNECK RD MP 0.00 - MP 0.27	

PAVEMENT SCHEDULE	
C2	PROP. APPROX. 1 1/2" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
R1	EXISTING BRIDGE BARRIER
T1	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT
V3	1 1/2" MILLING DEPTH

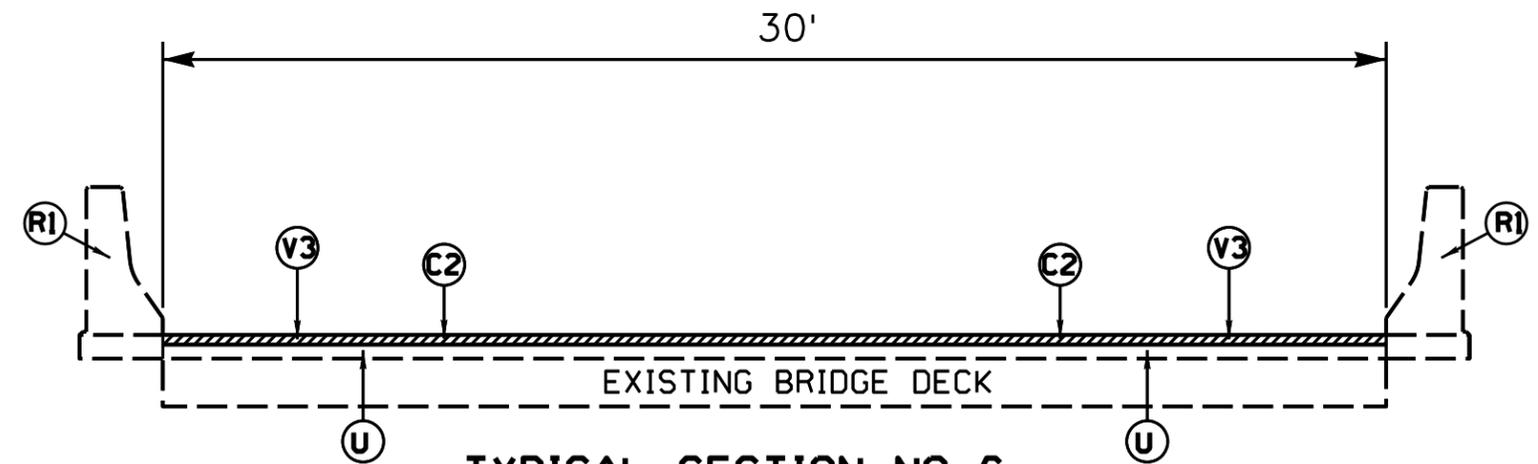
**NOTES:** MILL A SINGLE LANE AND PAVE BACK BY THE END OF EACH WORK DAY.

SHOULDER WORK ON MAP NO. 1 - 7 AS NEEDED, TO BE DETERMINED BY ENGINEER.

THE CONTRACTOR SHALL RETAIN EXISTING LANE WIDTHS.

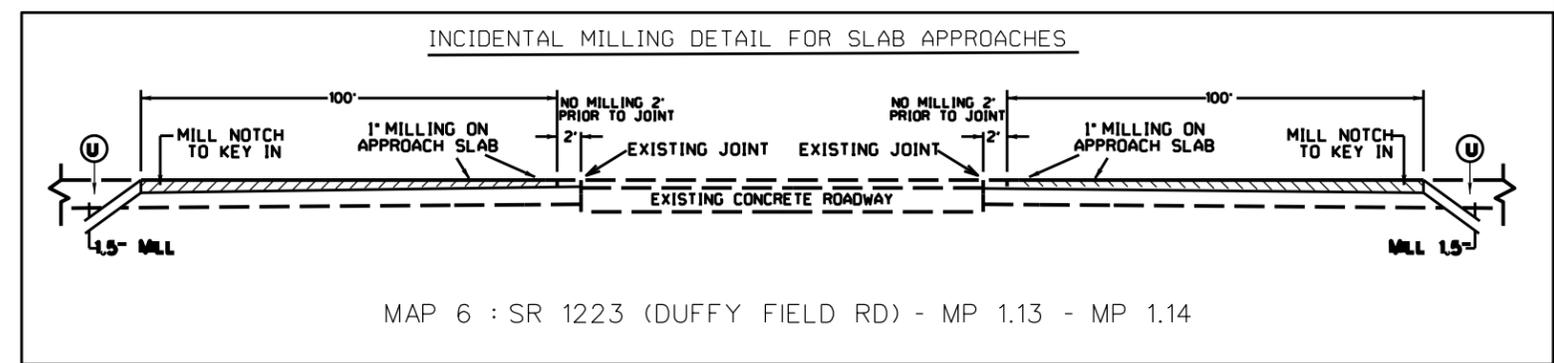
REINSTALL PAVEMENT MARKINGS PER 2024 STANDARDS.

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



**TYPICAL SECTION NO. 6**

MAP NO. 5  
SR 1225 TURTLE SHELL RD  
BRIDGE NO. 049  
MP 3.36 - MP 3.39



MAP 6 : SR 1223 (DUFFY FIELD RD) - MP 1.13 - MP 1.14

REVISIONS

8/17/99

SYSTEMS

PAVEMENT SCHEDULE

C3	PROP. APPROX. 1¼" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ.YD.
R2	EXISTING CURB & GUTTER
U	EXISTING PAVEMENT
V5	0" - 1 ¼" VARIABLE MILLING

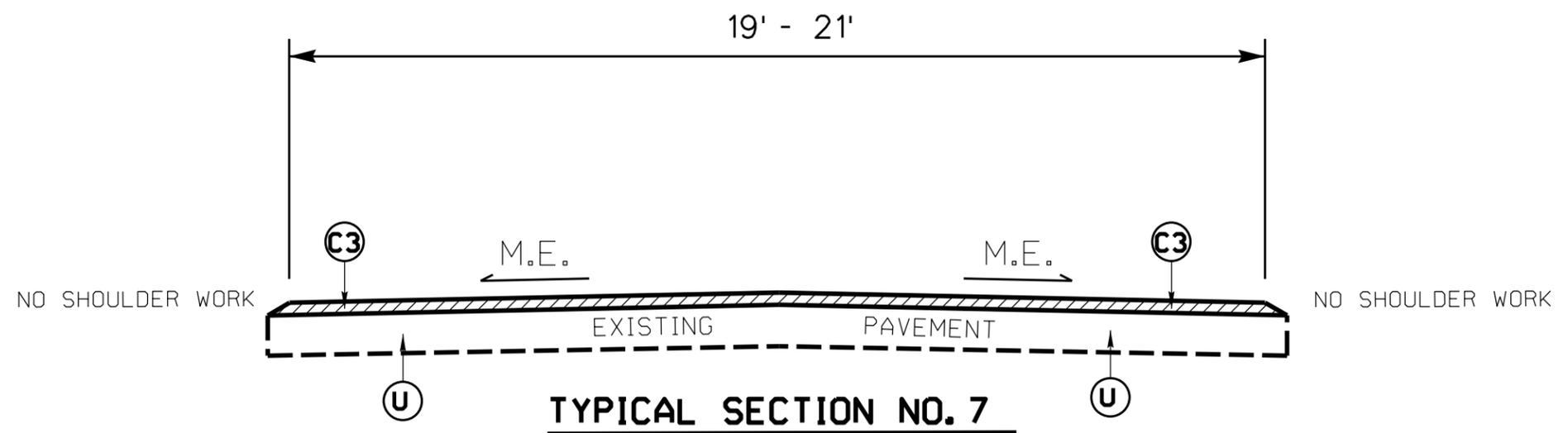
**NOTES:** MILL A SINGLE LANE AND PAVE BACK BY THE END OF EACH WORK DAY.

SHOULDER WORK ON MAP NO. 1 - 7 AS NEEDED, TO BE DETERMINED BY ENGINEER.

THE CONTRACTOR SHALL RETAIN EXISTING LANE WIDTHS.

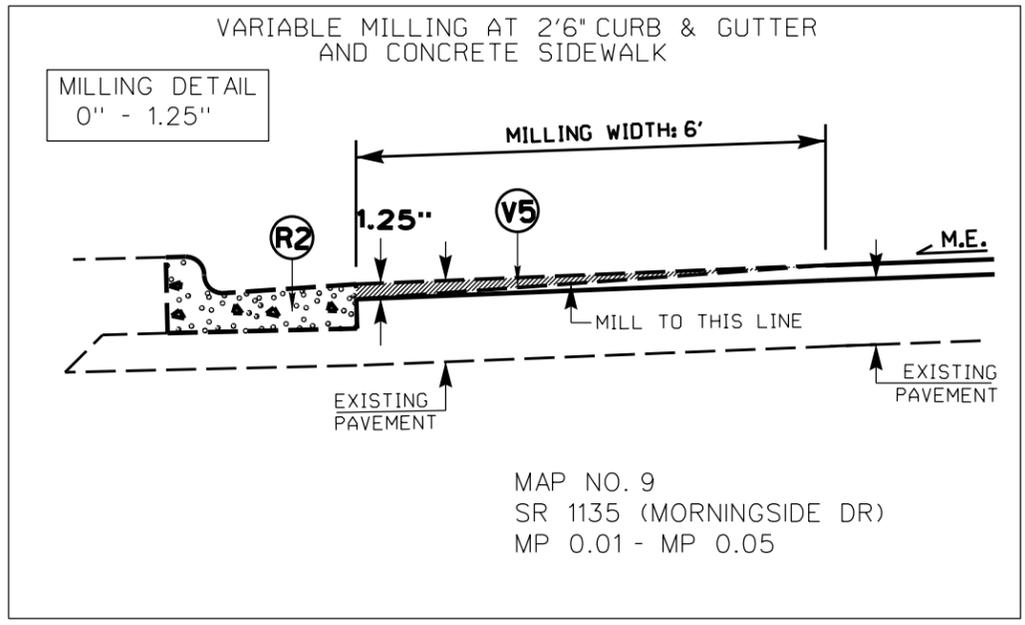
REINSTALL PAVEMENT MARKINGS PER 2024 STANDARDS.

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



MAP NO. 8  
SR 1283 DRESSLER DR  
MP 0.00 - MP 0.14

MAP NO. 9  
SR 1135 MORNINGSIDE DR  
MP 0.00 - MP 0.17



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
<b>DIVISION 8 - INCIDENTALS</b>	
846.01	Concrete Curb, Gutter and Curb & Gutter
<b>DIVISION 12 - PVT MARKING, MARKERS AND DELINEATION</b>	
1205.08	Pavement Markings - Symbols & Word Messages

REVISIONS

8/17/99  
SYSTEM TIME 11:55:55 AM 8/17/99

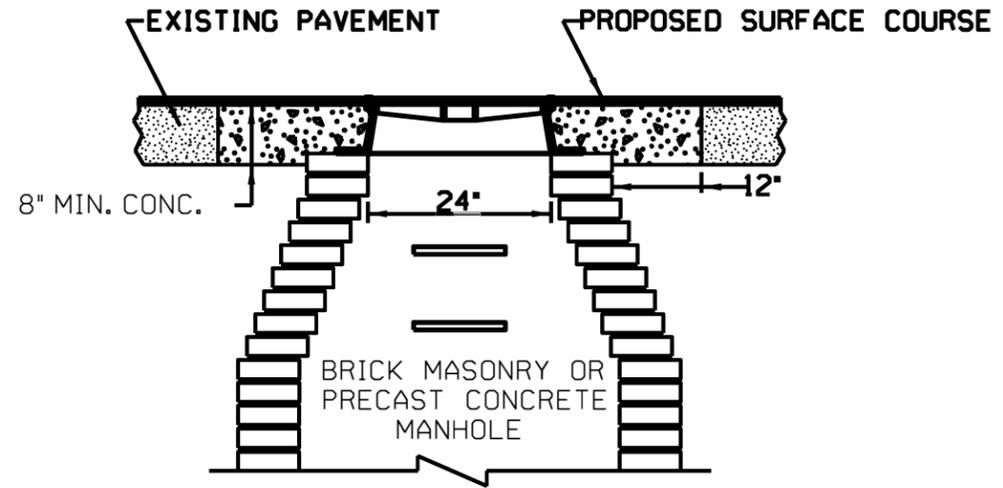
STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
 MANHOLE AND VALVE BOX ADJUSTMENTS

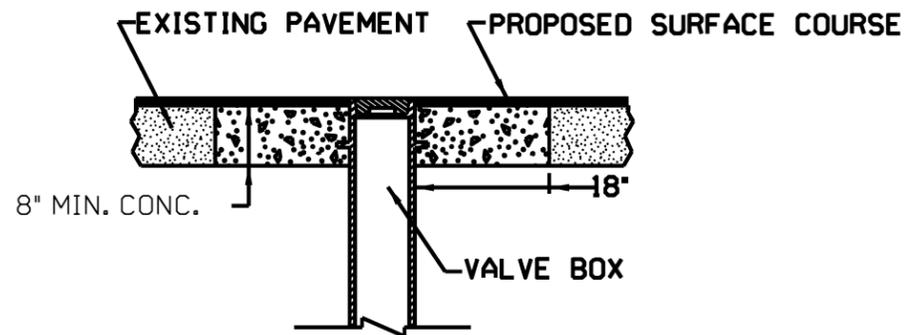
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**GENERAL NOTES:**

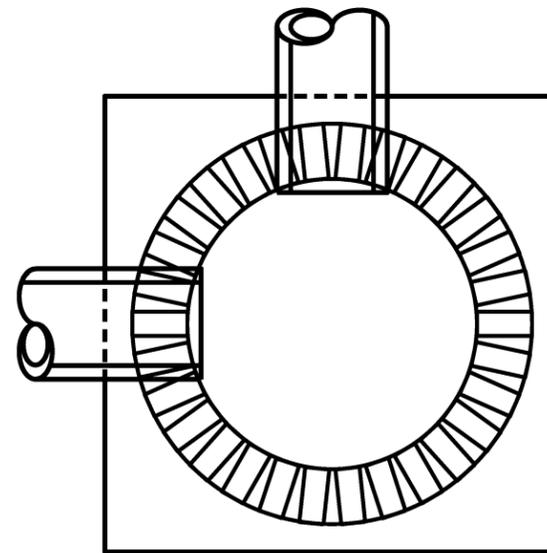
1. USE RAPID SET GROUT, MORTAR, OR CONCRETE THAT WILL TAKE FULL SET AND BECOME LOAD BEARING WITHIN SIXTY MINUTES OF PLACEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
3. SHEER CUT EXCAVATION FOR THE ADJUSTMENT ON ALL SIDES.
4. FILL AREA BELOW 8" DEPTH WITH 78M OR NO. 57 CLEAN STONE.
5. MIX MORTAR TO NCDOT SPECIFICATIONS.
6. MORTAR JOINTS  $\frac{1}{2}$ "  $\pm$   $\frac{1}{8}$ "



MANHOLE CONCRETE ENCASEMENT



VALVE BOX CONCRETE ENCASEMENT



ELEVATION VIEW

PLACE BRICK ACCORDING TO ELEVATION VIEW

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
 MANHOLE AND VALVE BOX ADJUSTMENTS

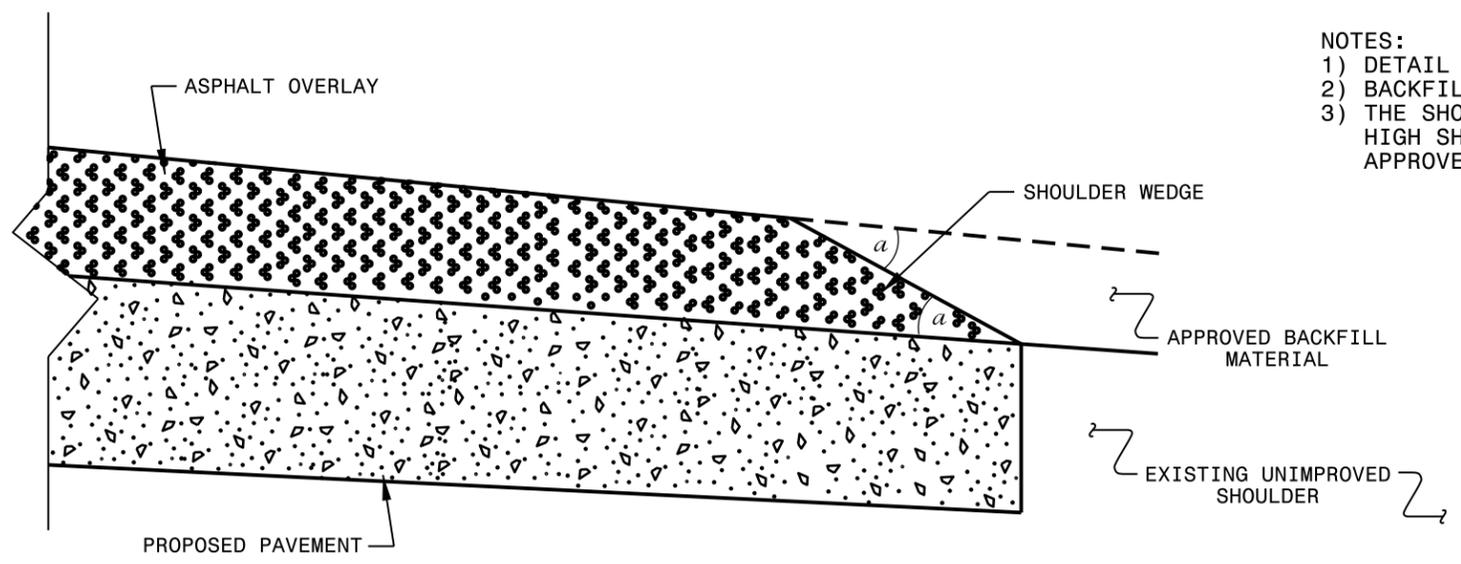
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REVISIONS

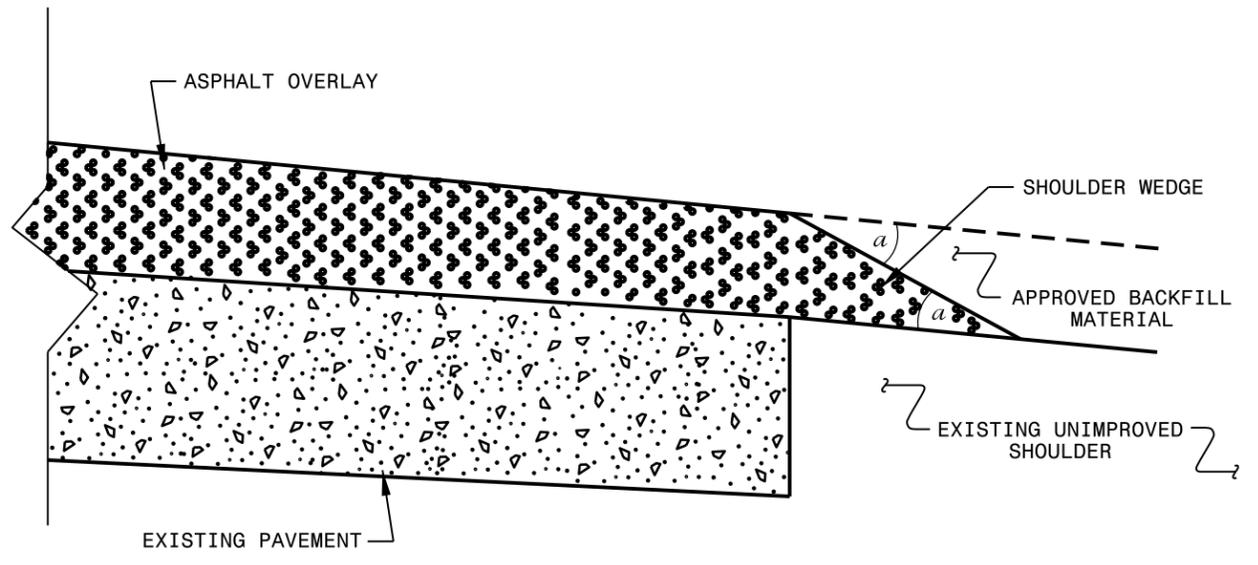
SYSTEMS  
 DESIGN  
 NAME



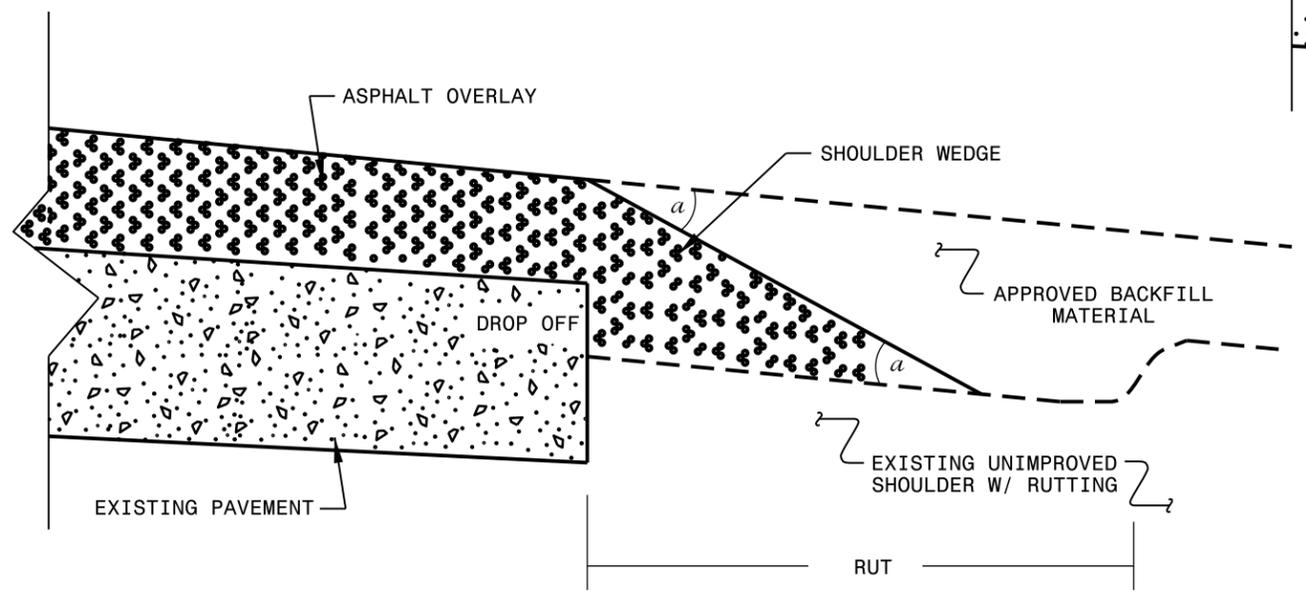
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



**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°

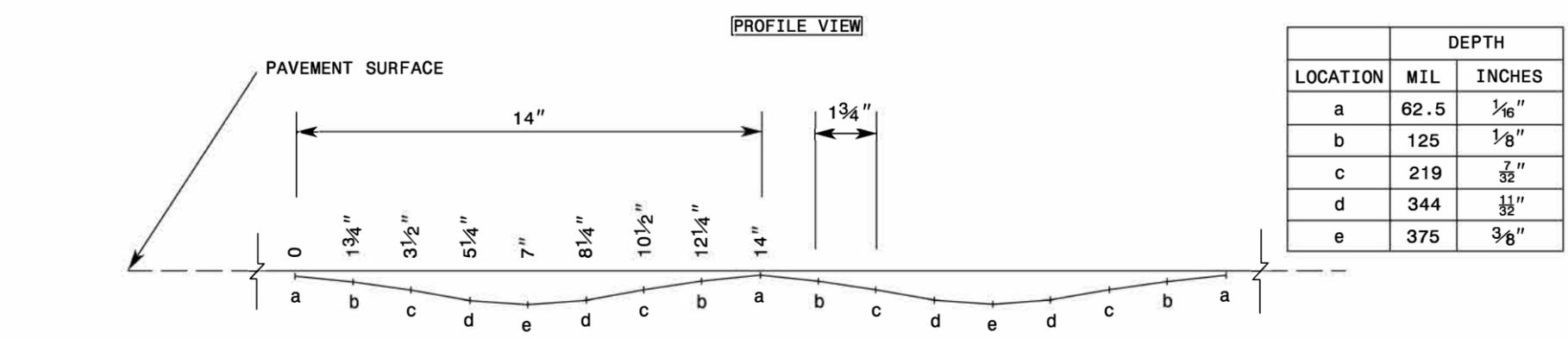
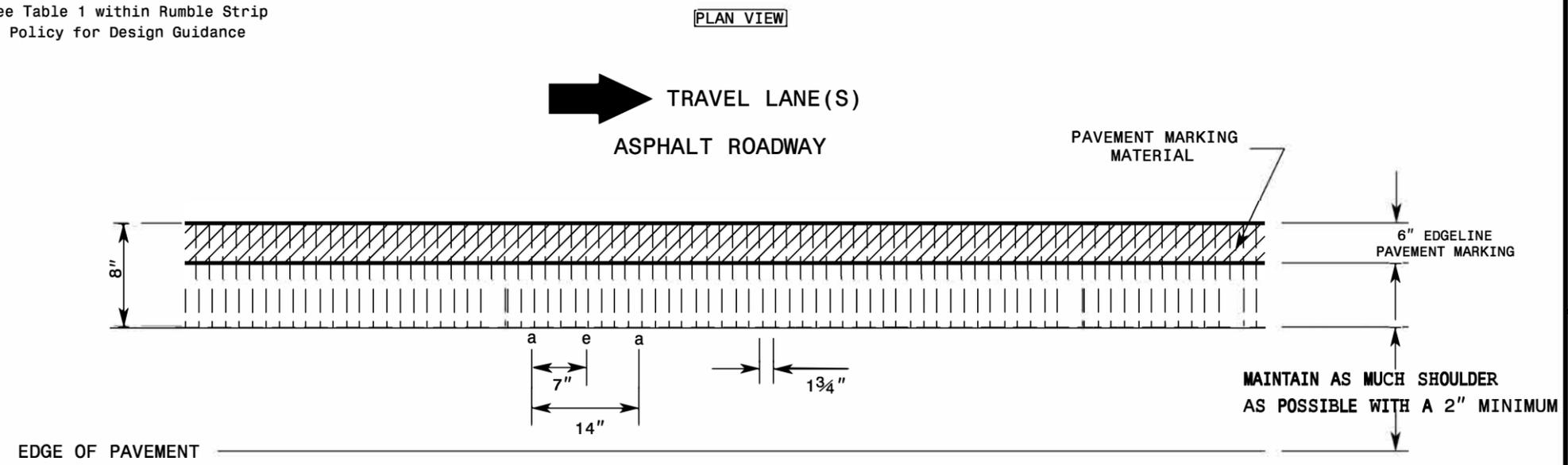
<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>			
Office 919-707-6950		FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>			
ORIGINAL BY: T.SPELL	DATE: 7-19-11		
MODIFIED BY:	DATE: 2/2/16		
CHECKED BY:	DATE:		
FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn			

27 JUN 2018 13:22  
 s:\projects\resurfacing\Projects\Division 3\Sampson August 2018\Revised Shoulder Wedge Detail.dgn  
 P:\porter\A1\CSO\2015\2542



Install with bicycle gaps for edge line on US 258 & NC 111:  
60-feet of rumbles followed by 12-foot gap - See sheet 15 for additional details.

See Table 1 within Rumble Strip Policy for Design Guidance



REFERENCE DRAWING ID: Sin.Stripe

- NOTES:**
- 1) Specification in table taken from MNDOT Research Project Final Report 2016-23: *Sinusoidal Rumble Strip Design Optimization Study By: Terhaar et al, June 2016*
  - 2) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
  - 3) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.  
  
 ROADWAY DETAIL DRAWING FOR  
**RUMBLE STRIPS / STRIPES**  
 SINUSOIDAL EDGELINE RUMBLE STRIPE

SHEET 4 OF 9

12/17/2025



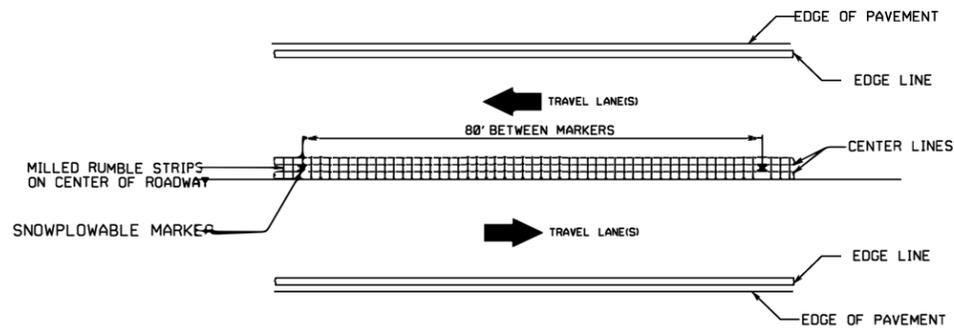
**CONTRACTS STANDARDS AND DEVELOPMENT UNIT**  
Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

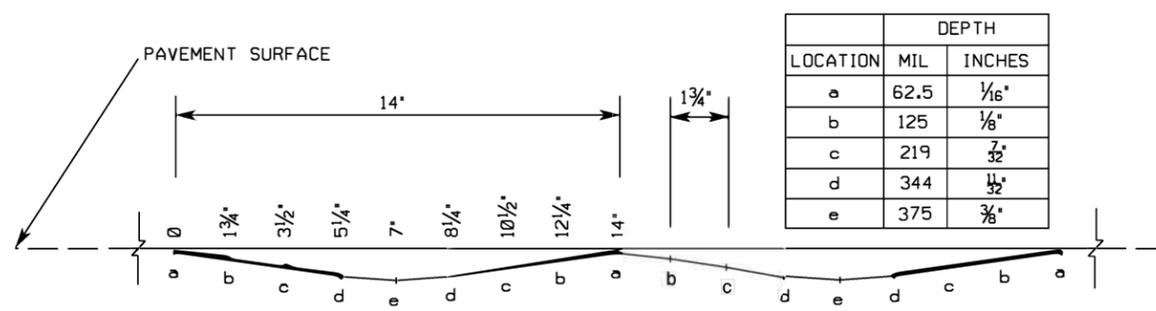
ORIGINAL BY: **C. SIMPSON** DATE: **04-24-2025**  
 MODIFIED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 FILE SPEC.: \_\_\_\_\_

See Table 2 within Rumble Strip Policy for Design Guidance

**LANE TREATMENT**

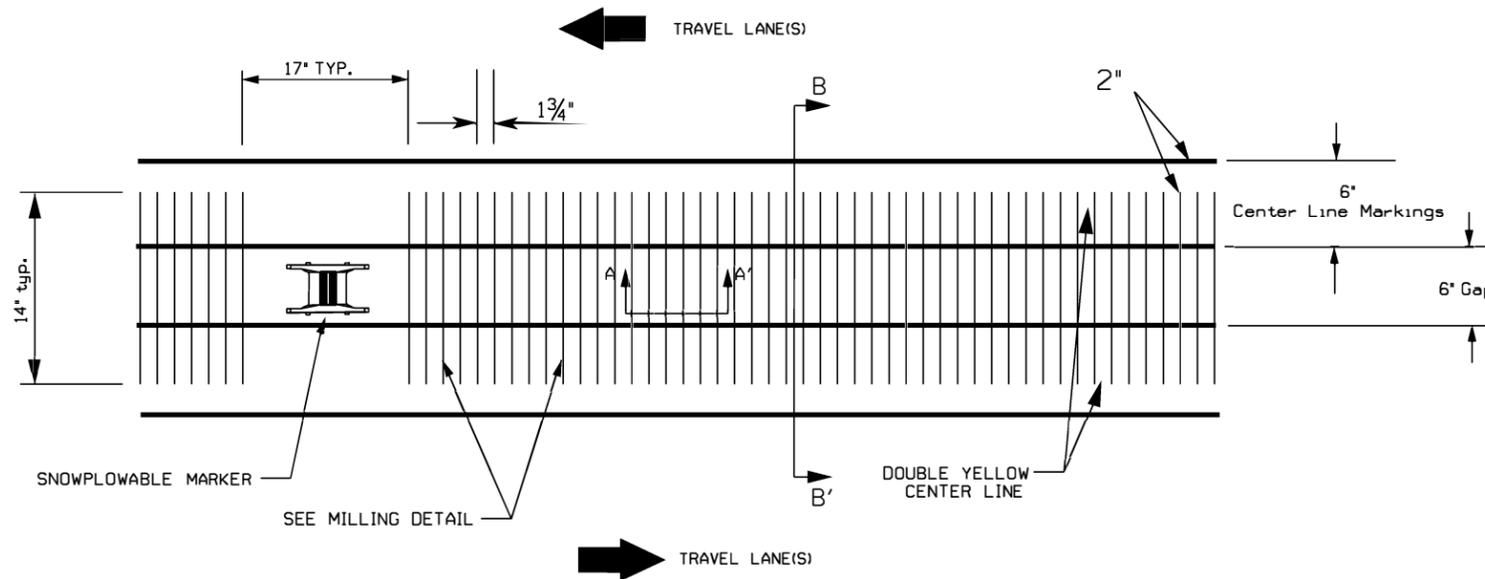


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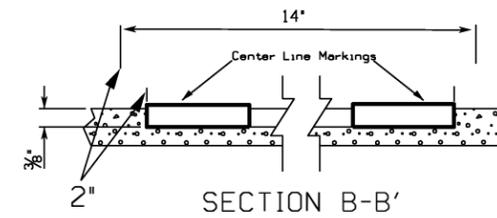


SECTION A-A'

**CENTER LINE**



**MILLING DETAIL**



SECTION B-B'

REFERENCE DRAWING ID: S1n.CL with Snowplowable Markers

**NOTES:**

- 1) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
- 2) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.
- 3) INSTALL SNOWPLOWABLE MARKERS AT APPROXIMATELY 80' INCREMENTS. DO NOT MILL RUMBLE STRIPS IN SECTION WHERE SNOWPLOWABLE MARKERS ARE INSTALLED.

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR  
RUMBLE STRIPS / STRIPES  
SINUSOIDAL CENTERLINE RUMBLE STRIPE WITH SNOWPLOWABLE MARKERS

SHEET 8 OF 9

12/17/2025

DocuSigned by:

Jessi Leonard

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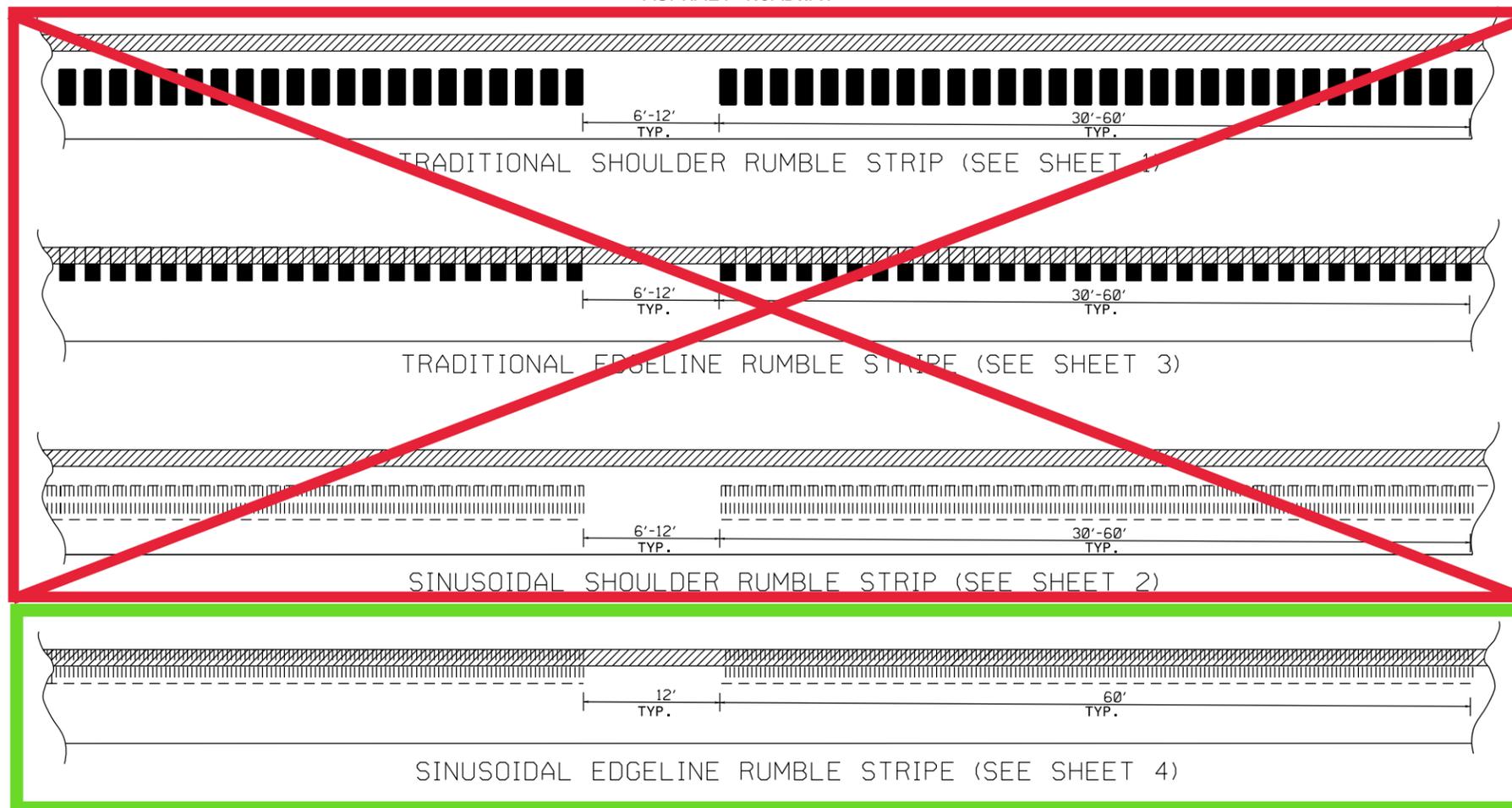
CONTRACTS STANDARDS AND DEVELOPMENT UNIT  
Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: C. SIMPSON DATE: 04-24-2025  
MODIFIED BY: DATE:  
CHECKED BY: DATE:  
FILE SPEC.:

See Page 4 within Rumble Strip Policy for Design Guidance

 TRAVEL LANE(S)  
 ASPHALT ROADWAY



REFERENCE DRAWING ID: Bicycle Gap

**NOTES:**

- 1) FOR ROADWAYS WITH NOMINAL PAVED SHOULDER WIDTHS OF AT LEAST 5 FEET, GAPS IN MILLED PATTERNS, VARYING BETWEEN 6 AND 12 FEET, SHALL BE PROVIDED TO ALLOW BICYCLISTS TO MOVE BETWEEN THE THROUGH LANE AND THE RIGHT SHOULDER. THE PATTERN SHOULD BE A MINIMUM OF A 5:1 RUMBLE-TO-GAP RATIO.
- 2) FOR ROADWAYS WITH NOMINAL PAVED SHOULDER WIDTHS OF 1.5 FEET UP TO 5 FEET FOR A LENGTH OF 200' OR GREATER, A BICYCLE GAP SHOULD BE CONSIDERED.
- 3) FOR ROADWAYS WITH NOMINAL PAVED SHOULDER WIDTHS OF LESS THAN 1.5 FEET, NO BICYCLE GAP IS NEEDED.

STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR  
**RUMBLE STRIPS / STRIPES**  
 BICYCLE GAP FOR SHOULDER RUMBLE STRIP / EDGELINE RUMBLE STRIPE

SHEET 9 OF 9

12/17/2025

DocuSigned by:  
*Jessi Leonard*  
 4D590D07E47C40F...



**CONTRACTS STANDARDS AND DEVELOPMENT UNIT**  
 Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: C. SIMPSON	DATE: 04-24-2025
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	

PROJECT NO.	SHEET NO.
2026CPT.03.10.10671, ETC.	16
50975.3.31, 50975.3.21	

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEG	END	0106000000-E	1220000000-E	1245000000-E	1297000000-E	1308000000-E	1330000000-E	1491000000-E	1519000000-E	1520000000-E	1523000000-E	1524000000-E	1575000000-E	
								MI	FT	N	MP	MP	EXCAVATION	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1.5" MILLING	0" - 1.5" MILLING	0" - 1.25" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	SURFACE COURSE, S9.5C	LEVELING COURSE, S9.5C
								MI	FT			CY	TON	SMI	SY	SY	SY	SY	TONS	TON	TON	TON	TON	TON
2026CPT.03.10.10671	Onslow	1	NC-111 / CATHERINE LAKE ROAD	FROM 0.49 MILES WEST OF SR 1265 (ALBERT ELLIS AIRPORT RD) TO DUPLIN COUNTY LINE [MP 5.77 - MP 9.41]	1,3	2	2WU	3.64	25	5.77	9.41	445	52	7.28	268		2,273				5,175	10	321	
<b>TOTAL FOR MAP NO. 1</b>								<b>3.64</b>				<b>445</b>	<b>52</b>	<b>7.28</b>	<b>268</b>		<b>2,273</b>				<b>5,175</b>	<b>10</b>	<b>321</b>	
2026CPT.03.10.10671	Onslow	2	NC-111 / CATHERINE LAKE ROAD	FROM US HWY 258 (RICHLANDS HWY) TO 0.56 MILE SE OF SR 1265 (ALBERT ELLIS AIRPORT RD) [MP 0.00 - MP 4.72]	2	2	2WU	4.72	27	0.00	4.72	577	354	9.44		147	3,253				7,118	20	420	
<b>TOTAL FOR MAP NO. 2</b>								<b>4.72</b>				<b>577</b>	<b>354</b>	<b>9.44</b>		<b>147</b>	<b>3,253</b>				<b>7,118</b>	<b>20</b>	<b>420</b>	
2026CPT.03.10.10671	Onslow	3	US-258 / RICHLANDS HWY	FROM NC HWY 111 (CATHERINE LAKE RD) TO SR 1238 (KOONCE FORK RD) [MP 6.32 - MP 11.98]	4	2	MU	5.66	65	6.32	11.98	711	84	8.73	5,544	11,382					19,199	25	1,210	
<b>TOTAL FOR MAP NO. 3</b>								<b>5.66</b>				<b>711</b>	<b>84</b>	<b>8.73</b>	<b>5,544</b>	<b>11,382</b>	<b>5,927</b>				<b>19,199</b>	<b>25</b>	<b>1,210</b>	
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.10671</b>								<b>14.02</b>				<b>1,733</b>	<b>490</b>	<b>25.45</b>	<b>5,812</b>	<b>11,529</b>		<b>11,453</b>				<b>31,492</b>	<b>55</b>	<b>1,951</b>
2026CPT.03.10.20671	Onslow	4	SR-1210 / FUTRELL RD	FROM SR 1209 (CYPRESS CREEK RD) TO END OF PAVEMENT [MP 1.32 - MP 2.98]	5	2	2WU	1.66	18	1.32	2.98	204	66	3.30			100			1,556	20		144	
<b>TOTAL FOR MAP NO. 4</b>								<b>1.66</b>				<b>204</b>	<b>66</b>	<b>3.30</b>			<b>100</b>			<b>1,556</b>	<b>20</b>		<b>144</b>	
2026CPT.03.10.20671	Onslow	5	SR-1225 / TURTLE SHELL RD	FROM SR 1229 (GREGORY FORK RD) TO SR 1238 (KOONCE FORK RD) [MP 2.53 - MP 3.83]	5,6	2	2WU	1.30	21	2.53	3.83	153	34	2.50	5,800		1,025			1,373	20		100	
<b>TOTAL FOR MAP NO. 5</b>								<b>1.30</b>				<b>153</b>	<b>34</b>	<b>2.50</b>	<b>5,800</b>		<b>1,025</b>			<b>1,373</b>	<b>20</b>		<b>100</b>	
2026CPT.03.10.20671	Onslow	6	SR-1223 / DUFFY FIELD RD	FROM SR 1222 (BANNERMANS MILL RD) TO SR 1227 (UNION CHAPEL CHURCH RD) [MP 0.00 - MP 1.46]	5	2	2WU	1.46	21	0.00	1.46	175	20	2.86			1,093			1,657	5		139	
<b>TOTAL FOR MAP NO. 6</b>								<b>1.46</b>				<b>175</b>	<b>20</b>	<b>2.86</b>			<b>1,093</b>			<b>1,657</b>	<b>5</b>		<b>139</b>	
2026CPT.03.10.20671	Onslow	7	SR-1317 / BRIARNECK RD	FROM US HWY 258 (RICHLANDS HWY) TO SR 1316 (RHODESTOWN RD) [MP 0.00 - MP 0.27]	5	2	2WU	0.27	20	0.00	0.27	28	16	0.47			139			278			25	
<b>TOTAL FOR MAP NO. 7</b>								<b>0.27</b>				<b>28</b>	<b>16</b>	<b>0.47</b>			<b>139</b>			<b>278</b>			<b>25</b>	
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.20671</b>								<b>4.69</b>				<b>560</b>	<b>136</b>	<b>9.13</b>	<b>5,800</b>		<b>2,357</b>			<b>4,864</b>	<b>45</b>		<b>408</b>	
2026CPT.03.10.20672	Onslow	8	SR-1283 / DRESSLER DR	FROM SR 1251 (GREENCREST CIR) TO END OF MAINTENANCE [MP 0.00 - MP 0.14]	7	2	2WU	0.14	20	0.00	0.14		2				112			117			8	
<b>TOTAL FOR MAP NO. 8</b>								<b>0.14</b>					<b>2</b>				<b>112</b>			<b>117</b>			<b>8</b>	
2026CPT.03.10.20672	Onslow	9	SR-1135 / MORNINGSIDE DR	FROM NC HWY 53 (BURGAW HWY) TO NC HWY 24 (RICHLANDS HWY) [MP 0.00 - MP 0.17]	7	2	2WU	0.17	20	0.00	0.17		10				70	152		133			12	
<b>TOTAL FOR MAP NO. 9</b>								<b>0.17</b>				<b>10</b>				<b>70</b>	<b>152</b>		<b>133</b>			<b>12</b>		
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.20672</b>								<b>0.31</b>				<b>12</b>				<b>70</b>	<b>264</b>		<b>250</b>			<b>20</b>		
50975.3.31	Onslow	10	NC-111	FROM US HWY 258 (RICHLANDS HWY) TO DUPLIN COUNTY LINE [MP 0.00 - MP 9.41]	1,2	2	2WU	9.41	26	0.00	9.41									1,002			45	
<b>TOTAL FOR MAP NO. 10</b>								<b>9.41</b>											<b>1,002</b>			<b>45</b>		
<b>TOTAL FOR PROJ NO. 50975.3.31</b>								<b>9.41</b>										<b>1,002</b>			<b>45</b>			
50975.3.21	Onslow	11	US-258	FROM SR 1320 (WELLS RD) TO SR 1238 (KOONCE FORK RD) [MP 4.59 - MP 11.98]	4	5	MU	7.39	65	4.59	11.98													
<b>TOTAL FOR MAP NO. 11</b>								<b>7.39</b>																
<b>TOTAL FOR PROJ NO. 50975.3.21</b>								<b>7.39</b>																
<b>GRAND TOTAL</b>								<b>21.80</b>				<b>2,293</b>	<b>638</b>	<b>34.58</b>	<b>11,612</b>	<b>11,529</b>	<b>70</b>	<b>14,074</b>	<b>1,002</b>	<b>5,114</b>	<b>45</b>	<b>31,492</b>	<b>55</b>	<b>2,424</b>

PROJECT NO.	SHEET NO.
2026CPT.03.10.10671, ETC.	17
50975.3.31, 50975.3.21	

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGI	END	1705500000-E	1775000000-E	1838000000-E	1881000000-E		2815000000-N	2830000000-N	2845000000-N	5255000000-N	6000000000-E	6009000000-E	6012000000-E						
								MI	FT	N MP	MP	PATCHING EXISTING PAVEMENT (MILL)	ASPHALT SURFACE TREATMENT, MATCOAT, #78M STONE	EMULSION FOR ASPHALT SURFACE TREATMENT	SINUSOIDAL MILLED RUMBLE STRIPS 8", EDGELINE SHOULDER	SINUSOIDAL MILLED RUMBLE STRIPS 14", CENTERLINE	ADJUSTMENT OF DROP INLET	ADJUSTMENT OF MANHOLES	ADJUSTMENT OF METER OR VALVE BOX	PORTABLE LIGHTING	TEMPORARY SILT FENCE	STONE FOR EC CLASS B	SEDIMENT CONTROL STONE						
								TON	SY	GAL	LF	LF	EA	EA	EA	LS	LF	TON	TON										
2026CPT.03.10.10671	Onslow	1	NC-111 / CATHERINE LAKE ROAD	FROM 0.49 MILES WEST OF SR 1265 (ALBERT ELLIS AIRPORT RD) TO DUPLIN COUNTY LINE [MP 5.77 - MP 9.41]	1,3	2	2WU	3.64	25	5.77	9.41	321							1		365	90	90						
<b>TOTAL FOR MAP NO. 1</b>								<b>3.64</b>				<b>321</b>							<b>1</b>		<b>365</b>	<b>90</b>	<b>90</b>						
2026CPT.03.10.10671	Onslow	2	NC-111 / CATHERINE LAKE ROAD	FROM US HWY 258 (RICHLANDS HWY) TO 0.56 MILE SE OF SR 1265 (ALBERT ELLIS AIRPORT RD) [MP 0.00 - MP 4.72]	2	2	2WU	4.72	27	0.00	4.72	241	63,677	30,920					9		470	120	120						
<b>TOTAL FOR MAP NO. 2</b>								<b>4.72</b>				<b>241</b>	<b>63,677</b>	<b>30,920</b>						<b>9</b>		<b>470</b>	<b>120</b>	<b>120</b>					
2026CPT.03.10.10671	Onslow	3	US-258 / RICHLANDS HWY	FROM NC HWY 111 (CATHERINE LAKE RD) TO SR 1238 (KOONCE FORK RD) [MP 6.32 - MP 11.98]	4	2	MU	5.66	65	6.32	11.98	1,575							1	1	6	0.79	440	110	110				
<b>TOTAL FOR MAP NO. 3</b>								<b>5.66</b>				<b>1,575</b>								<b>1</b>	<b>1</b>	<b>6</b>	<b>0.79</b>	<b>440</b>	<b>110</b>	<b>110</b>			
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.10671</b>								<b>14.02</b>				<b>2,137</b>	<b>63,677</b>	<b>30,920</b>							<b>1</b>	<b>1</b>	<b>16</b>	<b>0.79</b>	<b>1,275</b>	<b>320</b>	<b>320</b>		
2026CPT.03.10.20671	Onslow	4	SR-1210 / FUTRELL RD	FROM SR 1209 (CYPRESS CREEK RD) TO END OF PAVEMENT [MP 1.32 - MP 2.98]	5	2	2WU	1.66	18	1.32	2.98	862											165	40	40				
<b>TOTAL FOR MAP NO. 4</b>								<b>1.66</b>				<b>862</b>													<b>165</b>	<b>40</b>	<b>40</b>		
2026CPT.03.10.20671	Onslow	5	SR-1225 / TURTLE SHELL RD	FROM SR 1229 (GREGORY FORK RD) TO SR 1238 (KOONCE FORK RD) [MP 2.53 - MP 3.83]	5,6	2	2WU	1.30	21	2.53	3.83	197											165	40	40				
<b>TOTAL FOR MAP NO. 5</b>								<b>1.30</b>				<b>197</b>													<b>165</b>	<b>40</b>	<b>40</b>		
2026CPT.03.10.20671	Onslow	6	SR-1223 / DUFFY FIELD RD	FROM SR 1222 (BANNERMANS MILL RD) TO SR 1227 (UNION CHAPEL CHURCH RD) [MP 0.00 - MP 1.46]	5	2	2WU	1.46	21	0.00	1.46	654										0.21	145	35	35				
<b>TOTAL FOR MAP NO. 6</b>								<b>1.46</b>				<b>654</b>											<b>0.21</b>	<b>145</b>	<b>35</b>	<b>35</b>			
2026CPT.03.10.20671	Onslow	7	SR-1317 / BRIARNECK RD	FROM US HWY 258 (RICHLANDS HWY) TO SR 1316 (RHODESTOWN RD) [MP 0.00 - MP 0.27]	5	2	2WU	0.27	20	0.00	0.27	147											25	5	5				
<b>TOTAL FOR MAP NO. 7</b>								<b>0.27</b>				<b>147</b>												<b>25</b>	<b>5</b>	<b>5</b>			
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.20671</b>								<b>4.69</b>				<b>1,860</b>										<b>0.21</b>	<b>500</b>	<b>120</b>	<b>120</b>				
2026CPT.03.10.20672	Onslow	8	SR-1283 / DRESSLER DR	FROM SR 1251 (GREENCREST CIR) TO END OF MAINTENANCE [MP 0.00 - MP 0.14]	7	2	2WU	0.14	20	0.00	0.14	76																	
<b>TOTAL FOR MAP NO. 8</b>								<b>0.14</b>				<b>76</b>																	
2026CPT.03.10.20672	Onslow	9	SR-1135 / MORNINGSIDE DR	FROM NC HWY 53 (BURGAW HWY) TO NC HWY 24 (RICHLANDS HWY) [MP 0.00 - MP 0.17]	7	2	2WU	0.17	20	0.00	0.17	66																	
<b>TOTAL FOR MAP NO. 9</b>								<b>0.17</b>				<b>66</b>																	
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.20672</b>								<b>0.31</b>				<b>142</b>																	
50975.3.31	Onslow	10	NC-111	FROM US HWY 258 (RICHLANDS HWY) TO DUPLIN COUNTY LINE [MP 0.00 - MP 9.41]	1,2	2	2WU	9.41	26	0.00	9.41																		
<b>TOTAL FOR MAP NO. 10</b>								<b>9.41</b>																					
<b>TOTAL FOR PROJ NO. 50975.3.31</b>								<b>9.41</b>																					
50975.3.21	Onslow	11	US-258	FROM SR 1320 (WELLS RD) TO SR 1238 (KOONCE FORK RD) [MP 4.59 - MP 11.98]	4	5	MU	7.39	65	4.59	11.98																		
<b>TOTAL FOR MAP NO. 11</b>								<b>7.39</b>																					
<b>TOTAL FOR PROJ NO. 50975.3.21</b>								<b>7.39</b>																					
<b>GRAND TOTAL</b>								<b>21.80</b>						<b>4,139</b>	<b>63,677</b>	<b>30,920</b>	<b>109,930</b>	<b>38,291</b>	<b>1</b>	<b>1</b>	<b>16</b>	<b>1</b>		<b>1,775</b>	<b>440</b>	<b>440</b>			

PROJECT NO.	SHEET NO.
2026CPT.03.10.10671, ETC.	18
50975.3.31, 50975.3.21	

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEG N MP	END MP	601500000-E	601800000-E	602100000-E	603600000-E	604200000-E	607101000-E	608400000-E	609000000-E	609300000-E	611700000-N	744400000-E		
												TEMPORARY MULCHING	SEED FOR TEMPORARY SEEDING	FERTILIZER FOR TEMPORARY SEEDING	MATTING FOR EROSION CONTROL	1/4" HARDWARE CLOTH	WATTLE	SEED & MULCHING	SEED FOR REPAIR SEEDING	FERTILIZER FOR REPAIR SEEDING	RESPONSE FOR EROSION CONTROL	INDUCTIVE LOOP SAWCUT		
												ACR	LBS	TON	SY	LF	LF	AC	LB	TON	EA	LF		
2026CPT.03.10.10671	Onslow	1	NC-111 / CATHERINE LAKE ROAD	FROM 0.49 MILES WEST OF SR 1265 (ALBERT ELLIS AIRPORT RD) TO DUPLIN COUNTY LINE [MP 5.77 - MP 9.41]	1,3	2	2WU	3.64	25	5.77	9.41	3.65	180	0.90	30	180	60	3.50	170	0.90	8			
<b>TOTAL FOR MAP NO. 1</b>								<b>3.64</b>				<b>3.65</b>	<b>180</b>	<b>0.90</b>	<b>30</b>	<b>180</b>	<b>60</b>	<b>3.50</b>	<b>170</b>	<b>0.90</b>	<b>8</b>			
2026CPT.03.10.10671	Onslow	2	NC-111 / CATHERINE LAKE ROAD	FROM US HWY 258 (RICHLANDS HWY) TO 0.56 MILE SE OF SR 1265 (ALBERT ELLIS AIRPORT RD) [MP 0.00 - MP 4.72]	2	2	2WU	4.72	27	0.00	4.72	4.70	235	1.20	40	235	80	4.60	235	1.20	10	650		
<b>TOTAL FOR MAP NO. 2</b>								<b>4.72</b>				<b>4.70</b>	<b>235</b>	<b>1.20</b>	<b>40</b>	<b>235</b>	<b>80</b>	<b>4.60</b>	<b>235</b>	<b>1.20</b>	<b>10</b>	<b>650</b>		
2026CPT.03.10.10671	Onslow	3	US-258 / RICHLANDS HWY	FROM NC HWY 111 (CATHERINE LAKE RD) TO SR 1238 (KOONCE FORK RD) [MP 6.32 - MP 11.98]	4	2	MU	5.66	65	6.32	11.98	4.40	220	1.10	30	220	70	4.25	220	1.10	9	1,750		
<b>TOTAL FOR MAP NO. 3</b>								<b>5.66</b>				<b>4.40</b>	<b>220</b>	<b>1.10</b>	<b>30</b>	<b>220</b>	<b>70</b>	<b>4.25</b>	<b>220</b>	<b>1.10</b>	<b>9</b>	<b>1,750</b>		
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.10671</b>								<b>14.02</b>				<b>12.75</b>	<b>635</b>	<b>3.20</b>	<b>100</b>	<b>635</b>	<b>210</b>	<b>12.35</b>	<b>625</b>	<b>3.20</b>	<b>27</b>	<b>2,400</b>		
2026CPT.03.10.20671	Onslow	4	SR-1210 / FUTRELL RD	FROM SR 1209 (CYPRESS CREEK RD) TO END OF PAVEMENT [MP 1.32 - MP 2.98]	5	2	2WU	1.66	18	1.32	2.98	1.70	85	0.40	20	85	30	1.60	85	0.40	6			
<b>TOTAL FOR MAP NO. 4</b>								<b>1.66</b>				<b>1.70</b>	<b>85</b>	<b>0.40</b>	<b>20</b>	<b>85</b>	<b>30</b>	<b>1.60</b>	<b>85</b>	<b>0.40</b>	<b>6</b>			
2026CPT.03.10.20671	Onslow	5	SR-1225 / TURTLE SHELL RD	FROM SR 1229 (GREGORY FORK RD) TO SR 1238 (KOONCE FORK RD) [MP 2.53 - MP 3.83]	5,6	2	2WU	1.30	21	2.53	3.83	1.70	85	0.40	20	85	30	1.60	85	0.40	4			
<b>TOTAL FOR MAP NO. 5</b>								<b>1.30</b>				<b>1.70</b>	<b>85</b>	<b>0.40</b>	<b>20</b>	<b>85</b>	<b>30</b>	<b>1.60</b>	<b>85</b>	<b>0.40</b>	<b>4</b>			
2026CPT.03.10.20671	Onslow	6	SR-1223 / DUFFY FIELD RD	FROM SR 1222 (BANNERMANS MILL RD) TO SR 1227 (UNION CHAPEL CHURCH RD) [MP 0.00 - MP 1.46]	5	2	2WU	1.46	21	0.00	1.46	1.45	70	0.35	20	70	30	1.40	70	0.35	4			
<b>TOTAL FOR MAP NO. 6</b>								<b>1.46</b>				<b>1.45</b>	<b>70</b>	<b>0.35</b>	<b>20</b>	<b>70</b>	<b>30</b>	<b>1.40</b>	<b>70</b>	<b>0.35</b>	<b>4</b>			
2026CPT.03.10.20671	Onslow	7	SR-1317 / BRIARNECK RD	FROM US HWY 258 (RICHLANDS HWY) TO SR 1316 (RHODESTOWN RD) [MP 0.00 - MP 0.27]	5	2	2WU	0.27	20	0.00	0.27	0.25	10	0.05	10	10	10	0.01	10	0.05	2			
<b>TOTAL FOR MAP NO. 7</b>								<b>0.27</b>				<b>0.25</b>	<b>10</b>	<b>0.05</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>0.01</b>	<b>10</b>	<b>0.05</b>	<b>2</b>			
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.20671</b>								<b>4.69</b>				<b>5.10</b>	<b>250</b>	<b>1.20</b>	<b>70</b>	<b>250</b>	<b>100</b>	<b>4.61</b>	<b>250</b>	<b>1.20</b>	<b>16</b>			
2026CPT.03.10.20672	Onslow	8	SR-1283 / DRESSLER DR	FROM SR 1251 (GREENCREST CIR) TO END OF MAINTENANCE [MP 0.00 - MP 0.14]	7	2	2WU	0.14	20	0.00	0.14													
<b>TOTAL FOR MAP NO. 8</b>								<b>0.14</b>																
2026CPT.03.10.20672	Onslow	9	SR-1135 / MORNINGSIDE DR	FROM NC HWY 53 (BURGAW HWY) TO NC HWY 24 (RICHLANDS HWY) [MP 0.00 - MP 0.17]	7	2	2WU	0.17	20	0.00	0.17													
<b>TOTAL FOR MAP NO. 9</b>								<b>0.17</b>																
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.20672</b>								<b>0.31</b>																
50975.3.31	Onslow	10	NC-111	FROM US HWY 258 (RICHLANDS HWY) TO DUPLIN COUNTY LINE [MP 0.00 - MP 9.41]	1,2	2	2WU	9.41	26	0.00	9.41													
<b>TOTAL FOR MAP NO. 10</b>								<b>9.41</b>																
<b>TOTAL FOR PROJ NO. 50975.3.31</b>								<b>9.41</b>																
50975.3.21	Onslow	11	US-258	FROM SR 1320 (WELLS RD) TO SR 1238 (KOONCE FORK RD) [MP 4.59 - MP 11.98]	4	5	MU	7.39	65	4.59	11.98													
<b>TOTAL FOR MAP NO. 11</b>								<b>7.39</b>																
<b>TOTAL FOR PROJ NO. 50975.3.21</b>								<b>7.39</b>																
<b>GRAND TOTAL</b>								<b>21.80</b>					<b>17.85</b>	<b>885</b>	<b>4.40</b>	<b>170</b>	<b>885</b>	<b>310</b>	<b>16.96</b>	<b>875</b>	<b>4.40</b>	<b>43</b>	<b>2,400</b>	

PROJECT NO.	SHEET NO.
2026CPT.03.10.10671, ETC.	19
50975.3.31, 50975.3.21	

## 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	4688000000-E	4700000000-E	4709000000-E	4720000000-E	4725000000-E				
								MI	FT	SF	LS	HR	LF	LF	LF	LF	LF	LF	LF	EA	EA			
2026CPT.03.10.10671	Onslow	1	NC-111 / CATHERINE LAKE ROAD	FROM 0.49 MILES WEST OF SR 1265 (ALBERT ELLIS AIRPORT RD) TO DUPLIN COUNTY LINE [MP 5.77 - MP 9.41]	1,3	2	2WU	3.64	25	5.77	9.41	416	0.18								2			
<b>TOTAL FOR MAP NO. 1</b>								<b>3.64</b>				<b>416</b>	<b>0.18</b>								<b>2</b>			
2026CPT.03.10.10671	Onslow	2	NC-111 / CATHERINE LAKE ROAD	FROM US HWY 258 (RICHLANDS HWY) TO 0.56 MILE SE OF SR 1265 (ALBERT ELLIS AIRPORT RD) [MP 0.00 - MP 4.72]	2	2	2WU	4.72	27	0.00	4.72	544	0.26	40					462		5			
<b>TOTAL FOR MAP NO. 2</b>								<b>4.72</b>				<b>544</b>	<b>0.26</b>	<b>40</b>				<b>462</b>			<b>5</b>			
2026CPT.03.10.10671	Onslow	3	US-258 / RICHLANDS HWY	FROM NC HWY 111 (CATHERINE LAKE RD) TO SR 1238 (KOONCE FORK RD) [MP 6.32 - MP 11.98]	4	2	MU	5.66	65	6.32	11.98	384	0.34	80			70,088	88,605		270	348	12	10	
<b>TOTAL FOR MAP NO. 3</b>								<b>5.66</b>				<b>384</b>	<b>0.34</b>	<b>80</b>			<b>70,088</b>	<b>88,605</b>		<b>270</b>	<b>348</b>	<b>12</b>	<b>10</b>	
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.10671</b>								<b>14.02</b>				<b>1,344</b>	<b>0.77</b>	<b>120</b>			<b>70,088</b>	<b>88,605</b>	<b>462</b>	<b>270</b>	<b>348</b>	<b>12</b>	<b>17</b>	
																<b>158,693</b>	<b>732</b>							
2026CPT.03.10.20671	Onslow	4	SR-1210 / FUTRELL RD	FROM SR 1209 (CYPRESS CREEK RD) TO END OF PAVEMENT [MP 1.32 - MP 2.98]	5	2	2WU	1.66	18	1.32	2.98		0.08		12,680	17,648								
<b>TOTAL FOR MAP NO. 4</b>								<b>1.66</b>					<b>0.08</b>		<b>12,680</b>	<b>17,648</b>								
2026CPT.03.10.20671	Onslow	5	SR-1225 / TURTLE SHELL RD	FROM SR 1229 (GREGORY FORK RD) TO SR 1238 (KOONCE FORK RD) [MP 2.53 - MP 3.83]	5,6	2	2WU	1.3	21	2.53	3.83		0.06		10,948	13,230								
<b>TOTAL FOR MAP NO. 5</b>								<b>1.3</b>					<b>0.06</b>		<b>10,948</b>	<b>13,230</b>								
2026CPT.03.10.20671	Onslow	6	SR-1223 / DUFFY FIELD RD	FROM SR 1222 (BANNERMANS MILL RD) TO SR 1227 (UNION CHAPEL CHURCH RD) [MP 0.00 - MP 1.46]	5	2	2WU	1.46	21	0.00	1.46		0.07		13,473	15,040								
<b>TOTAL FOR MAP NO. 6</b>								<b>1.46</b>					<b>0.07</b>		<b>13,473</b>	<b>15,040</b>								
2026CPT.03.10.20671	Onslow	7	SR-1317 / BRIARNECK RD	FROM US HWY 258 (RICHLANDS HWY) TO SR 1316 (RHODESTOWN RD) [MP 0.00 - MP 0.27]	5	2	2WU	0.27	20	0.00	0.27		0.01		2,462	2,462								
<b>TOTAL FOR MAP NO. 7</b>								<b>0.27</b>					<b>0.01</b>		<b>2,462</b>	<b>2,462</b>								
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.20671</b>								<b>4.69</b>					<b>0.22</b>		<b>39,563</b>	<b>48,380</b>								
																<b>87,943</b>								
2026CPT.03.10.20672	Onslow	8	SR-1283 / DRESSLER DR	FROM SR 1251 (GREENCREST CIR) TO END OF MAINTENANCE [MP 0.00 - MP 0.14]	7	2	2WU	0.14	20	0.00	0.14		0.01											
<b>TOTAL FOR MAP NO. 8</b>								<b>0.14</b>					<b>0.006</b>											
2026CPT.03.10.20672	Onslow	9	SR-1135 / MORNINGSIDE DR	FROM NC HWY 53 (BURGAW HWY) TO NC HWY 24 (RICHLANDS HWY) [MP 0.00 - MP 0.17]	7	2	2WU	0.17	20	0.00	0.17		0.01		1,480	1,480								
<b>TOTAL FOR MAP NO. 9</b>								<b>0.17</b>					<b>0.008</b>		<b>1,480</b>	<b>1,480</b>								
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.20672</b>								<b>0.31</b>					<b>0.014</b>		<b>1,480</b>	<b>1,480</b>								
																<b>2,960</b>								
50975.3.31	Onslow	10	NC-111	FROM US HWY 258 (RICHLANDS HWY) TO DUPLIN COUNTY LINE [MP 0.00 - MP 9.41]	1,2	2	2WU	9.41	26	0.00	9.41						64,420	92,640		186				
<b>TOTAL FOR MAP NO. 10</b>								<b>9.41</b>							<b>64,420</b>	<b>92,640</b>		<b>186</b>						
<b>TOTAL FOR PROJ NO. 50975.3.31</b>								<b>9.41</b>							<b>64,420</b>	<b>92,640</b>		<b>186</b>						
																<b>157,060</b>	<b>186</b>							
50975.3.21	Onslow	11	US-258	FROM SR 1320 (WELLS RD) TO SR 1238 (KOONCE FORK RD) [MP 4.59 - MP 11.98]	4	5	MU	7.39	65	4.59	11.94	400								78,038				
<b>TOTAL FOR MAP NO. 11</b>								<b>7.39</b>					<b>400</b>						<b>78,038</b>					
<b>TOTAL FOR PROJ NO. 50975.3.21</b>								<b>7.39</b>					<b>400</b>						<b>78,038</b>					
																<b>78,038</b>								
<b>GRAND TOTAL</b>								<b>21.80</b>					<b>1,744</b>	<b>1</b>	<b>120</b>	<b>41,043</b>	<b>49,860</b>	<b>134,508</b>	<b>259,283</b>	<b>648</b>	<b>270</b>	<b>348</b>	<b>12</b>	<b>17</b>
																<b>90,903</b>	<b>393,791</b>	<b>918</b>						

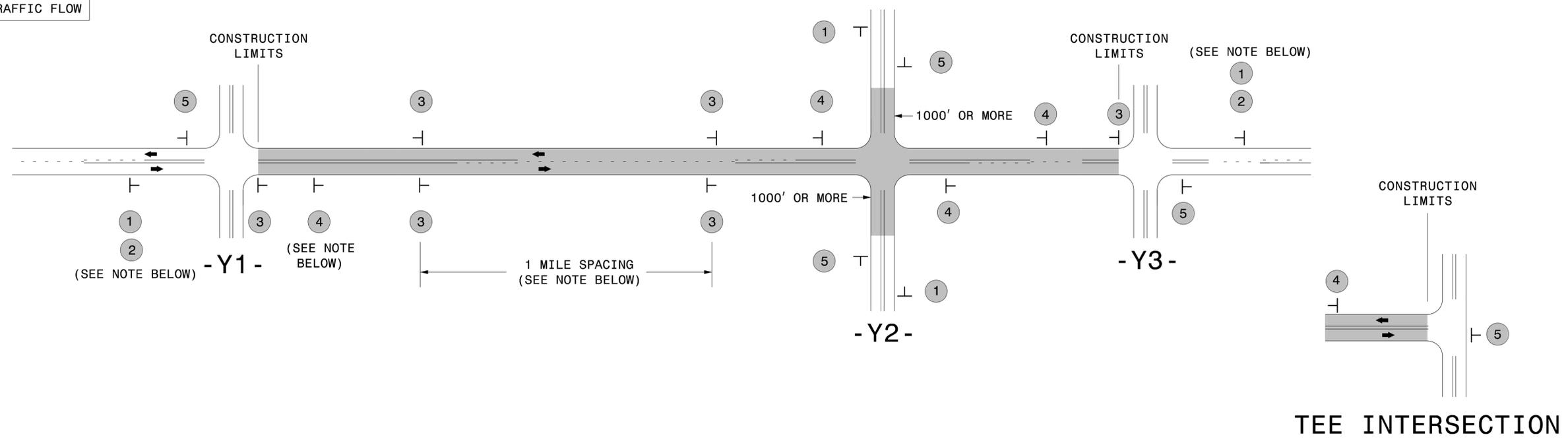
PROJECT NO.	SHEET NO.
2026CPT.03.10.10671, ETC.	20
50975.3.31, 50975.3.21	

**THERMOPLASTIC AND PAINT QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4725000000-E				4890000000-E	4895000000-N		4900000000-N	
												THERMO LT ARROW (90 MIL)	THERMO STR ARROW (90 MIL)	THERMO STR & LT ARROW (90 MIL)	THERMO STR & RT ARROW (90 MIL)	THERMO 24" YIELD LINE	POLYCARBONATE H SHAPED MARKERS Y/Y	POLYCARBONATE H SHAPED MARKERS C/R	YELLOW & YELLOW MARKERS	
												EA	EA	EA	EA	LF	EA	EA	EA	
2026CPT.03.10.10671	Onslow	1	NC-111 / CATHERINE LAKE ROAD	FROM 0.49 MILES WEST OF SR 1265 (ALBERT ELLIS AIRPORT RD) TO DUPLIN COUNTY LINE [MP 5.77 - MP 9.41]	1,3	2	2WU	3.64	25	5.77	9.41						225	8		
<b>TOTAL FOR MAP NO. 1</b>								<b>3.64</b>								<b>225</b>	<b>8</b>			
2026CPT.03.10.10671	Onslow	2	NC-111 / CATHERINE LAKE ROAD	FROM US HWY 258 (RICHLANDS HWY) TO 0.56 MILE SE OF SR 1265 (ALBERT ELLIS AIRPORT RD) [MP 0.00 - MP 4.72]	2	2	2WU	4.72	27	0.00	4.72		8				349	52		
<b>TOTAL FOR MAP NO. 2</b>								<b>4.72</b>					<b>8</b>			<b>349</b>	<b>52</b>			
2026CPT.03.10.10671	Onslow	3	US-258 / RICHLANDS HWY	FROM NC HWY 111 (CATHERINE LAKE RD) TO SR 1238 (KOONCE FORK RD) [MP 6.32 - MP 11.98]	4	2	MU	5.66	65	6.32	11.98		190	6	2	3	15	1,150	744	
<b>TOTAL FOR MAP NO. 3</b>								<b>5.66</b>					<b>190</b>	<b>6</b>	<b>2</b>	<b>3</b>	<b>15</b>	<b>1,150</b>	<b>744</b>	
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.10671</b>								<b>14.02</b>					<b>198</b>	<b>6</b>	<b>2</b>	<b>3</b>	<b>15</b>	<b>1,724</b>	<b>804</b>	
												<b>226</b>				<b>2,528</b>				
2026CPT.03.10.20671	Onslow	4	SR-1210 / FUTRELL RD	FROM SR 1209 (CYPRESS CREEK RD) TO END OF PAVEMENT [MP 1.32 - MP 2.98]	5	2	2WU	1.66	18	1.32	2.98								110	
<b>TOTAL FOR MAP NO. 4</b>								<b>1.66</b>											<b>110</b>	
2026CPT.03.10.20671	Onslow	5	SR-1225 / TURTLE SHELL RD	FROM SR 1229 (GREGORY FORK RD) TO SR 1238 (KOONCE FORK RD) [MP 2.53 - MP 3.83]	5,6	2	2WU	1.3	21	2.53	3.83								83	
<b>TOTAL FOR MAP NO. 5</b>								<b>1.3</b>											<b>83</b>	
2026CPT.03.10.20671	Onslow	6	SR-1223 / DUFFY FIELD RD	FROM SR 1222 (BANNERMANS MILL RD) TO SR 1227 (UNION CHAPEL CHURCH RD) [MP 0.00 - MP 1.46]	5	2	2WU	1.46	21	0.00	1.46								95	
<b>TOTAL FOR MAP NO. 6</b>								<b>1.46</b>											<b>95</b>	
2026CPT.03.10.20671	Onslow	7	SR-1317 / BRIARNECK RD	FROM US HWY 258 (RICHLANDS HWY) TO SR 1316 (RHODESTOWN RD) [MP 0.00 - MP 0.27]	5	2	2WU	0.27	20	0.00	0.27								15	
<b>TOTAL FOR MAP NO. 7</b>								<b>0.27</b>											<b>15</b>	
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.20671</b>								<b>4.69</b>												<b>303</b>
2026CPT.03.10.20672	Onslow	8	SR-1283 / DRESSLER DR	FROM SR 1251 (GREENCREST CIR) TO END OF MAINTENANCE [MP 0.00 - MP 0.14]	7	2	2WU	0.14	20	0.00	0.14									
<b>TOTAL FOR MAP NO. 8</b>								<b>0.14</b>												
2026CPT.03.10.20672	Onslow	9	SR-1135 / MORNINGSIDE DR	FROM NC HWY 53 (BURGAW HWY) TO NC HWY 24 (RICHLANDS HWY) [MP 0.00 - MP 0.17]	7	2	2WU	0.17	20	0.00	0.17								9	
<b>TOTAL FOR MAP NO. 9</b>								<b>0.17</b>											<b>9</b>	
<b>TOTAL FOR PROJ NO. 2026CPT.03.10.20672</b>								<b>0.31</b>												<b>9</b>
50975.3.31	Onslow	10	NC-111	FROM US HWY 258 (RICHLANDS HWY) TO DUPLIN COUNTY LINE [MP 0.00 - MP 9.41]	1,2	2	2WU	9.41	26	0.00	9.41									
<b>TOTAL FOR MAP NO. 10</b>								<b>9.41</b>												
<b>TOTAL FOR PROJ NO. 50975.3.31</b>								<b>9.41</b>												
50975.3.21	Onslow	11	US-258	FROM SR 1320 (WELLS RD) TO SR 1238 (KOONCE FORK RD) [MP 4.59 - MP 11.98]	4	5	MU	7.39	65	4.59	11.94									
<b>TOTAL FOR MAP NO. 11</b>								<b>7.39</b>												
<b>TOTAL FOR PROJ NO. 50975.3.21</b>								<b>7.39</b>												
<b>GRAND TOTAL</b>								<b>21.80</b>					<b>198</b>	<b>6</b>	<b>2</b>	<b>3</b>	<b>15</b>	<b>1,724</b>	<b>804</b>	<b>312</b>
												<b>226</b>				<b>2,528</b>				

# SIGNING FOR RESURFACING PROJECTS

**LEGEND**  
 ┆ STATIONARY SIGN  
 ← DIRECTION OF TRAFFIC FLOW



## MAINLINE (-L-) SIGNING

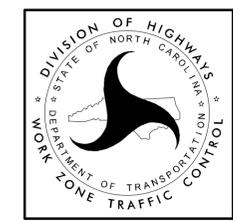
## -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1		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"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) DEAD END ROADS</li> </ol> <p>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.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">             W20-1 48" X 48"            PLACED 500' IN ADVANCE OF FLAGGER.         </div> <div style="text-align: center;">             W20-7 A 48" X 48"            PLACED 250' IN ADVANCE OF FLAGGER.         </div> </div>
	2		#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)	
	3		- 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		- 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		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.

**MAPS LESS THAN 2 MILES**

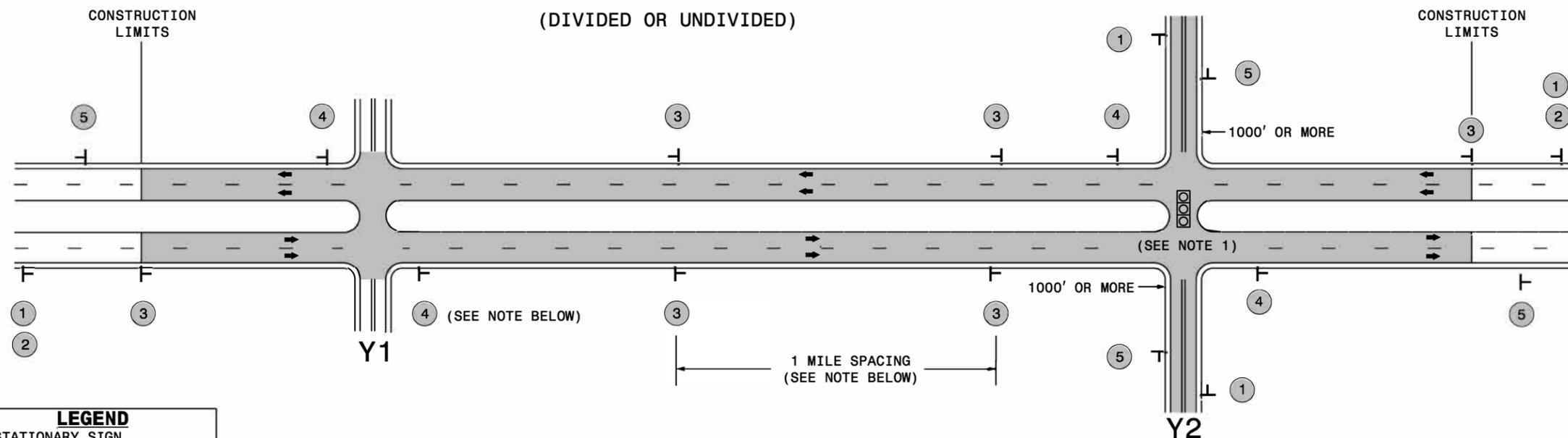
FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.



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

5/15/2017 S:\TUX\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing\_AdvWarn\_2Ln.dgn User:kadai

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



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>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	 SP 13107 48" X 48"	<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>
		<p><b>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</b></p> <ol style="list-style-type: none"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) DEAD END ROADS</li> </ol> <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; align-items: center;"> <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> <p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>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.</li> </ol>

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

2/24/2014 S:\TMU\WZTC\Resurfacing\2013\Documents\New\_Procedures\_05\_09\_2013\Resurfacing\_AdvWarn\_UrSu\_Shldr.dgn User:rmgarr

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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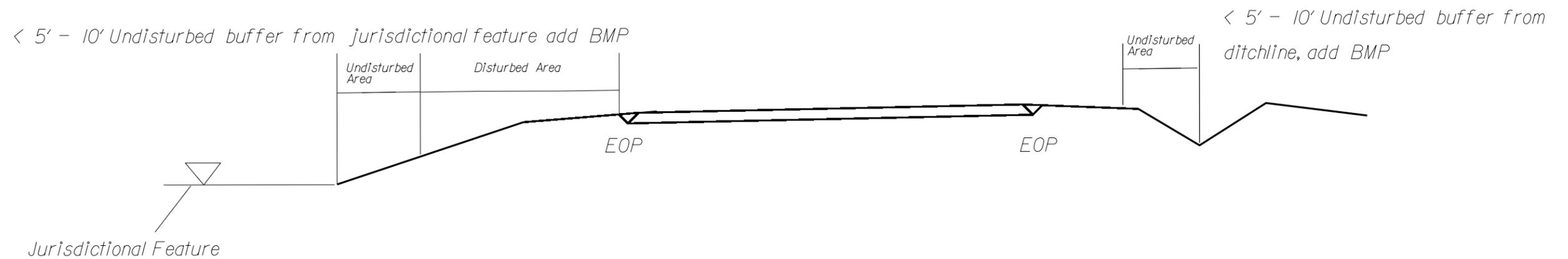
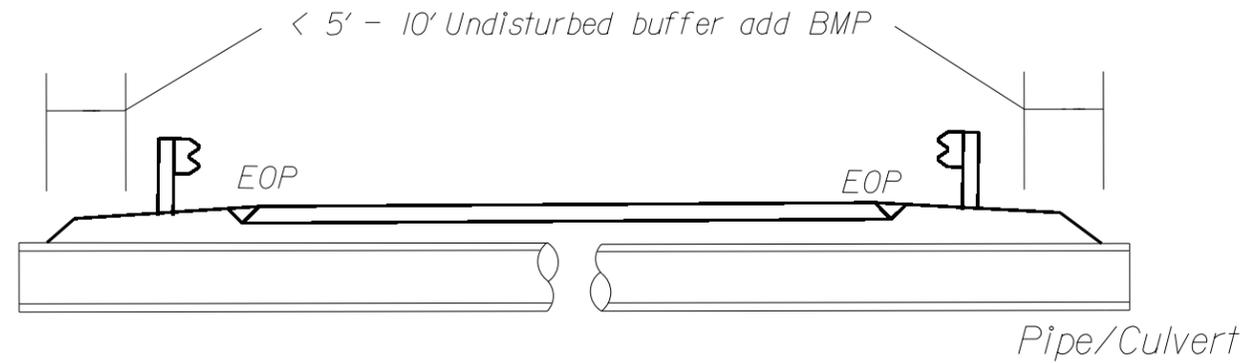
## ***SOIL STABILIZATION TIMEFRAMES***

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
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

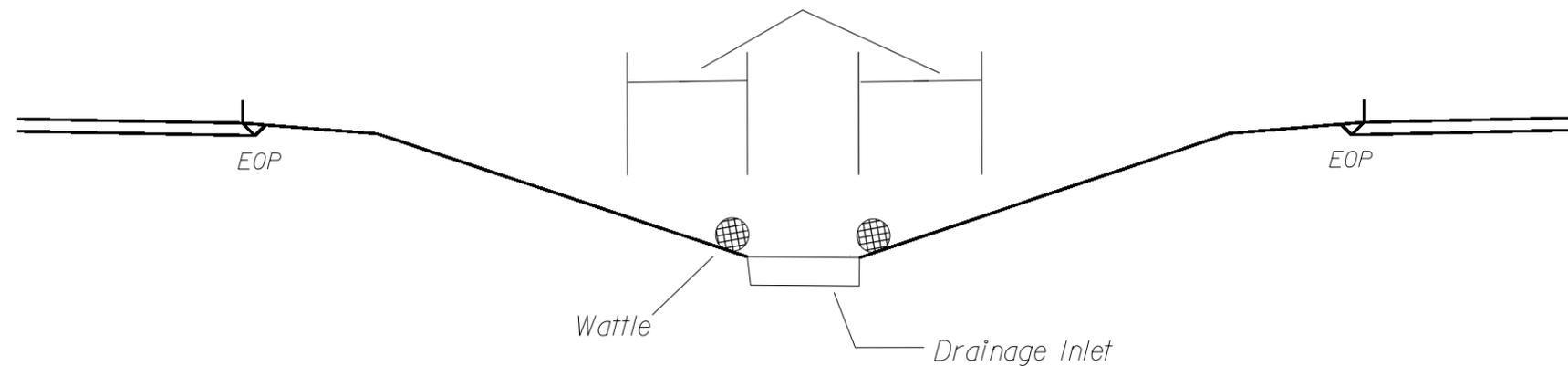
# EROSION CONTROL DETAIL



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed

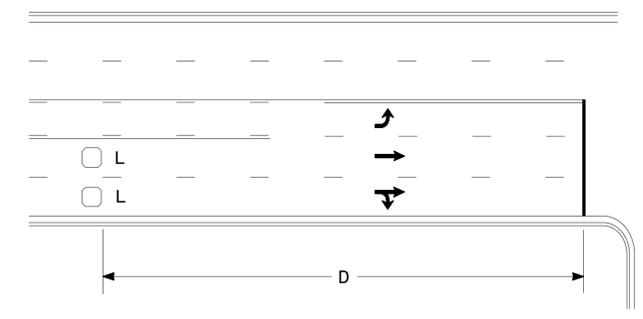


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

### High Speed Detection (≥35 mph)

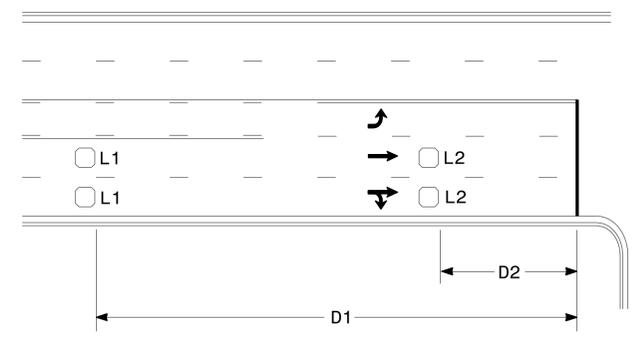


Speed Limit mph	D ft
35	200
40	250
45	300
50	355
55	420
60	475
65	550

L = 6ft X 6ft  
Wired separately

Volume Density Operation

OR



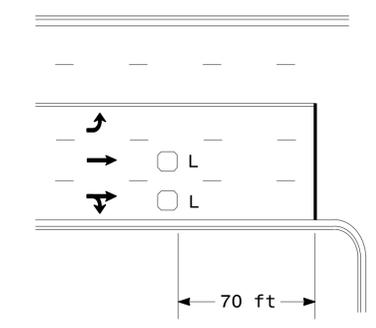
Speed Limit mph	D1 ft	D2 ft
40	250	80
45	300	90
50	355	100
55	420	110
60	475	120
65	550	130

L1 = 6ft X 6ft  
Wired in series

L2 = 6ft X 6ft  
Wired in series

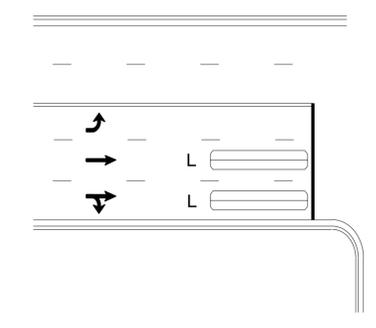
"Stretch" Operation

### Low Speed Detection (≤35 mph)



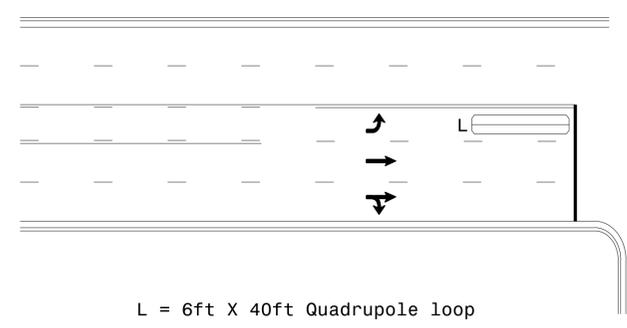
L = 6ft X 6ft  
Wired in series

OR



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

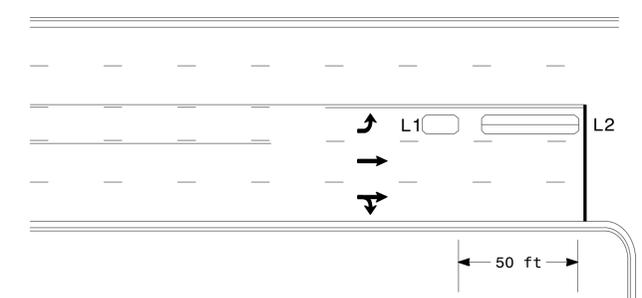
### Left Turn Lane Detection



L = 6ft X 40ft Quadrupole loop

Presence Loop Detection

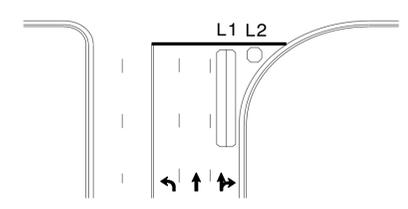
OR



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

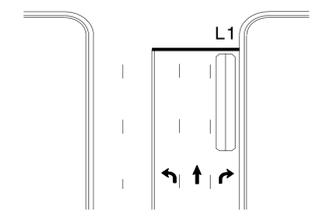
Queue Loop Detection

### Right Turn Lane Detection

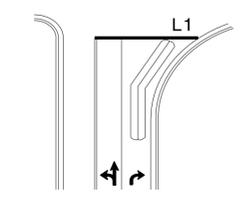


Shared Lane/  
Wide Radius Turn

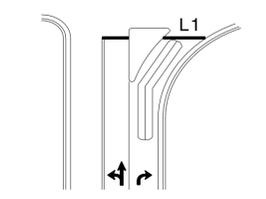
L1 = 6ft X 40ft Quadrupole loop  
L2 = 6ft X 6ft [Minimum] Presence loop  
Wired separately



Standard Turn

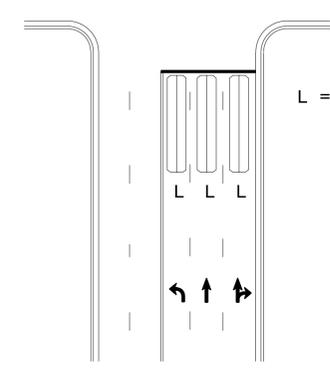


Wide Radius Turn



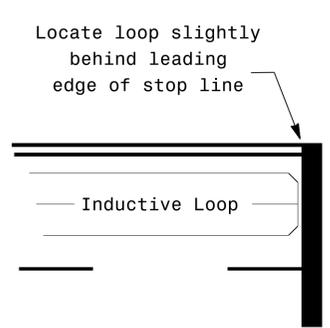
Channelized Turn

### 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

- 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

PLAN DATE: September 2025 REVIEWED BY:

PREPARED BY: J.A. Lohr REVIEWED BY:

SCALE: N/A

DATE: 11/25/2025

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