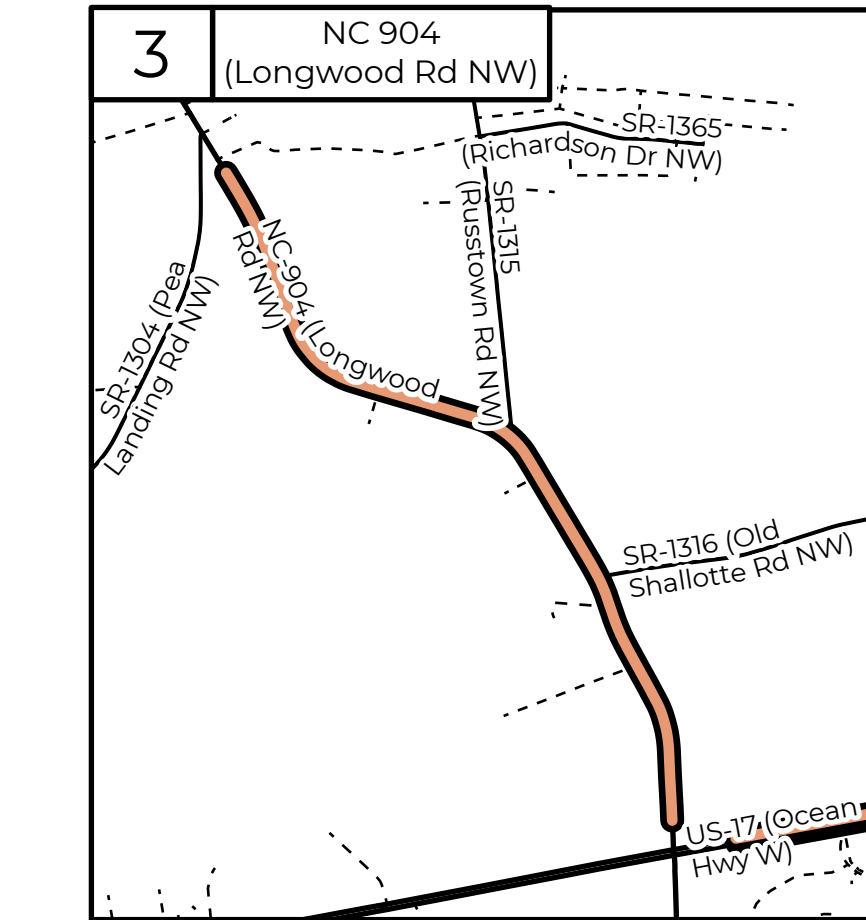
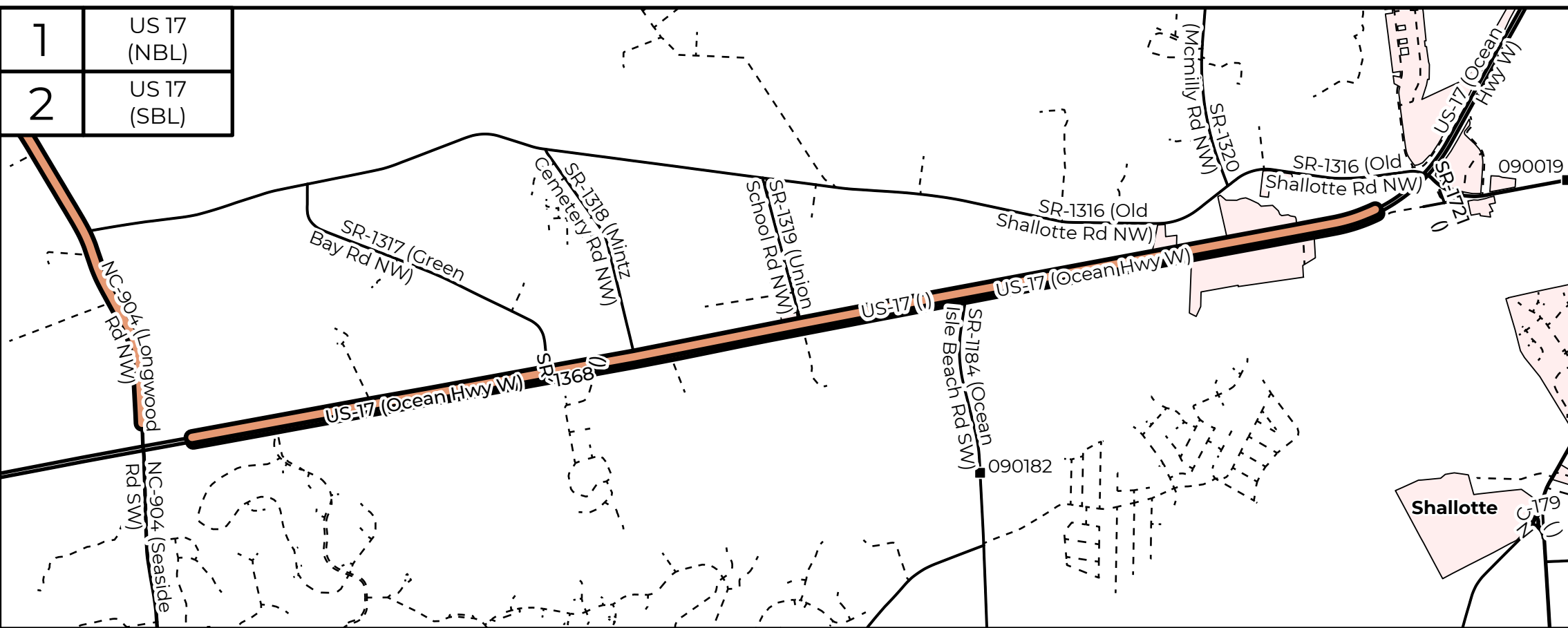
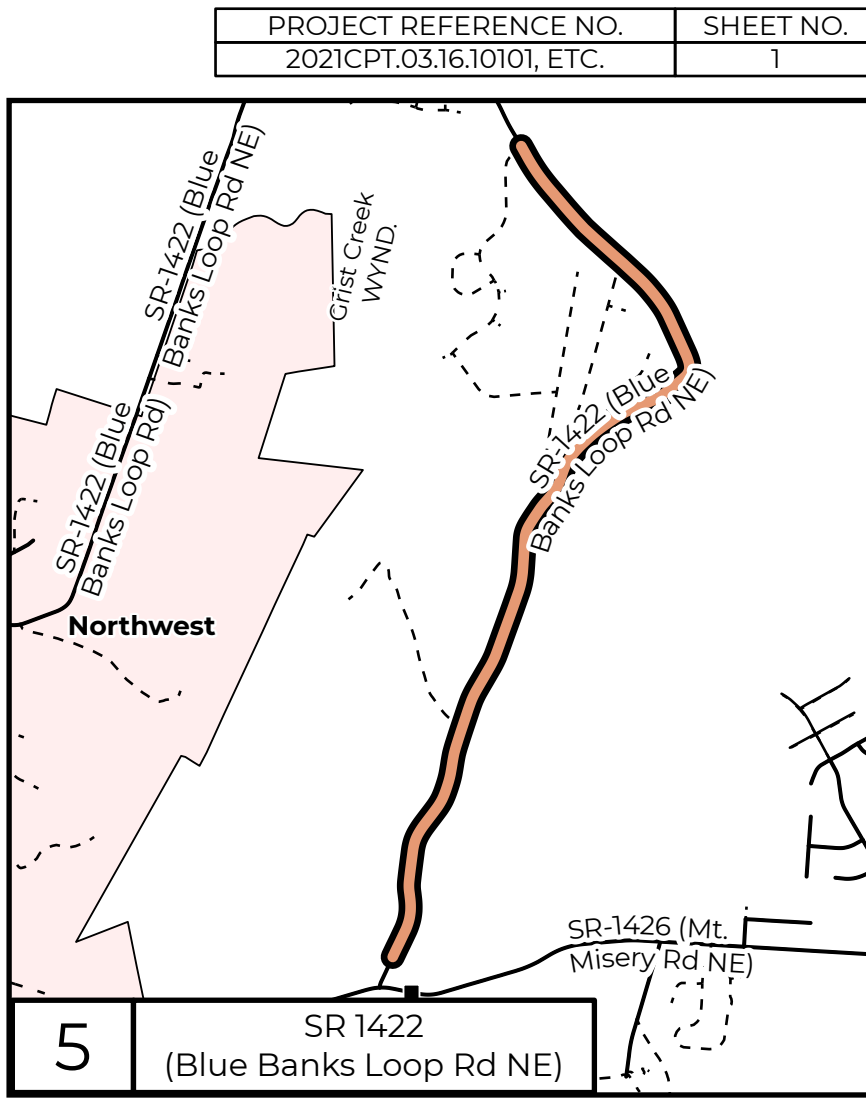
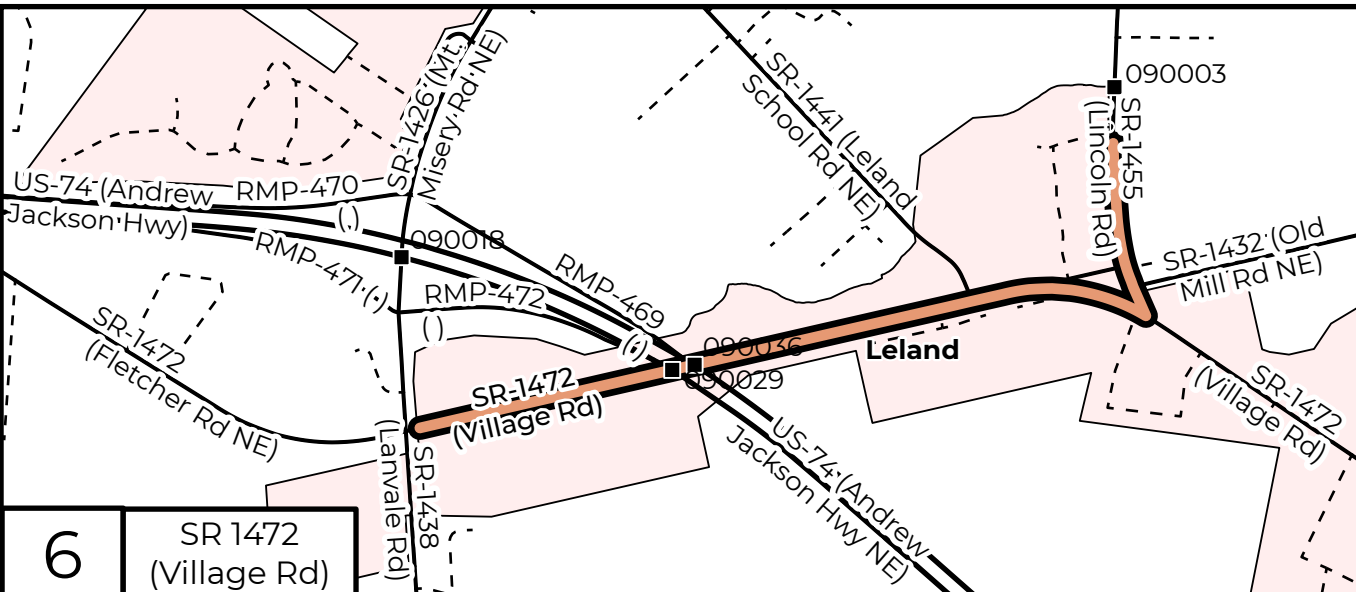
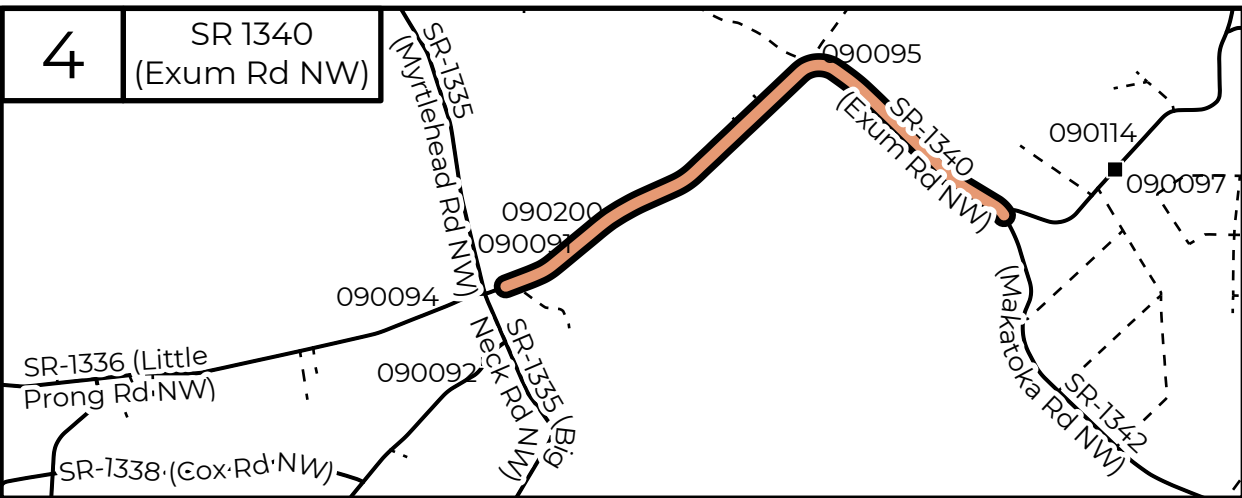
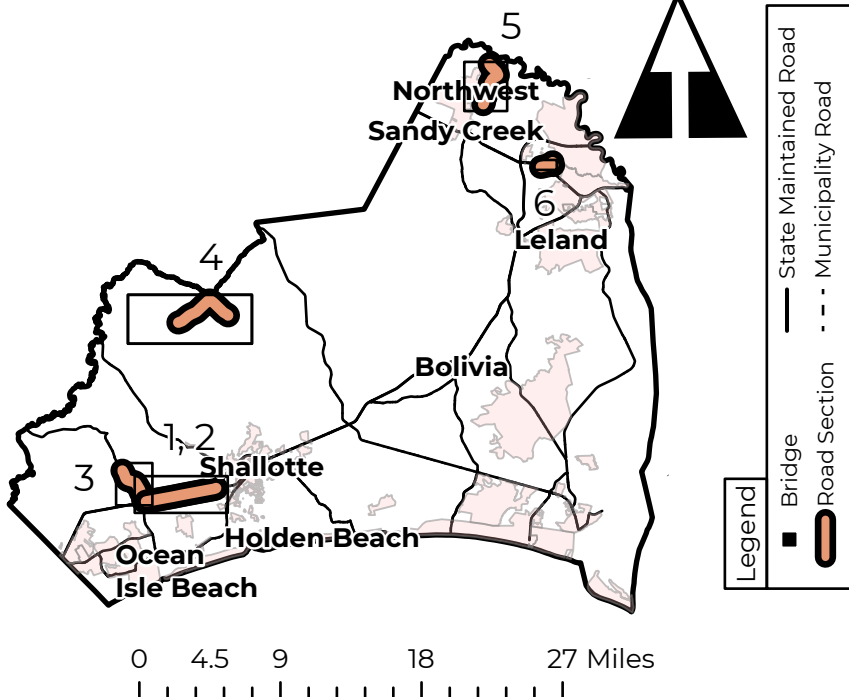
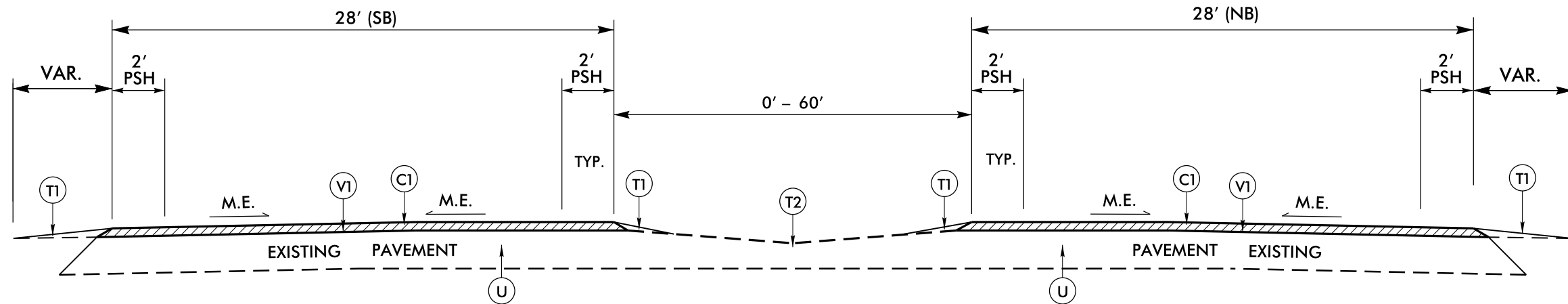


# Brunswick County A

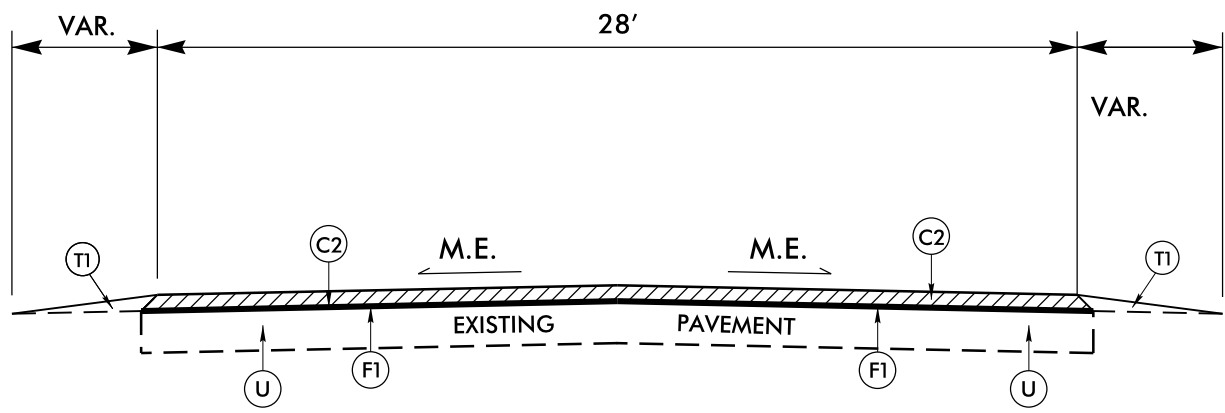




MAP NO. 2  
US 17 S (OCEAN HWY.)  
MP 35.51 - MP 40.23

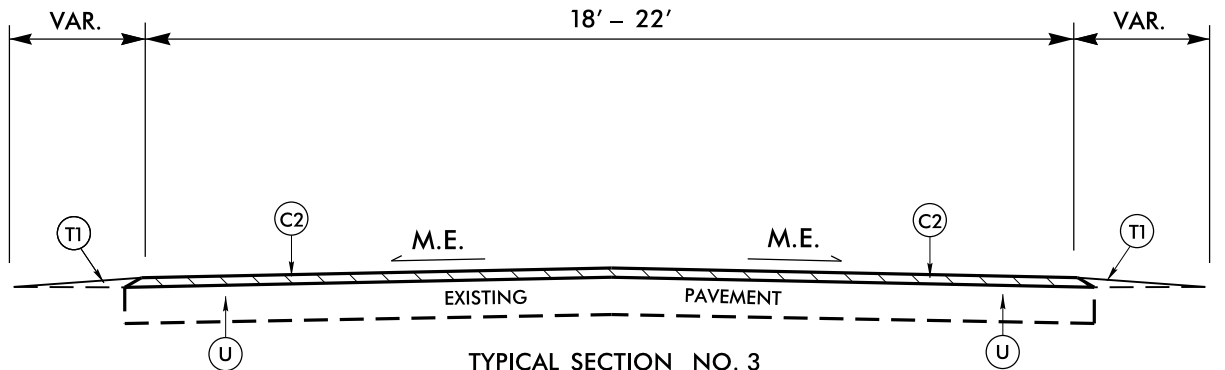
TYPICAL SECTION NO. 1

MAP NO. 1  
US 17 N (OCEAN HWY.)  
MP 7.10 - MP 11.82



TYPICAL SECTION NO. 2

MAP NO. 3  
NC 904 (LONGWOOD RD. NW)  
MP 8.17 - MP 10.88



TYPICAL SECTION NO. 3

MAP NO. 4  
SR 1340 (EXUM RD. NW)  
MP 0.00 - MP 4.15

MAP NO. 6  
SR 1472 (VILLAGE RD. NE)  
MP 0.55 - MP 1.38

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
C2	PROP. APPROX. 1½" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
E1	PROP. APPROX. 5" DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ.YD.
F1	ASHALT SURFACE TREATMENT - MAT COAT #67 STONE
R1	EXISTING CONCRETE BRIDGE RAIL
T1	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
T2	EXISTING EARTH MATERIAL
U	EXISTING PAVEMENT
V1	MILLING ASPHALT PAVEMENT, 1½" DEPTH
V2	MILLING ASPHALT PAVEMENT, 1" DEPTH

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

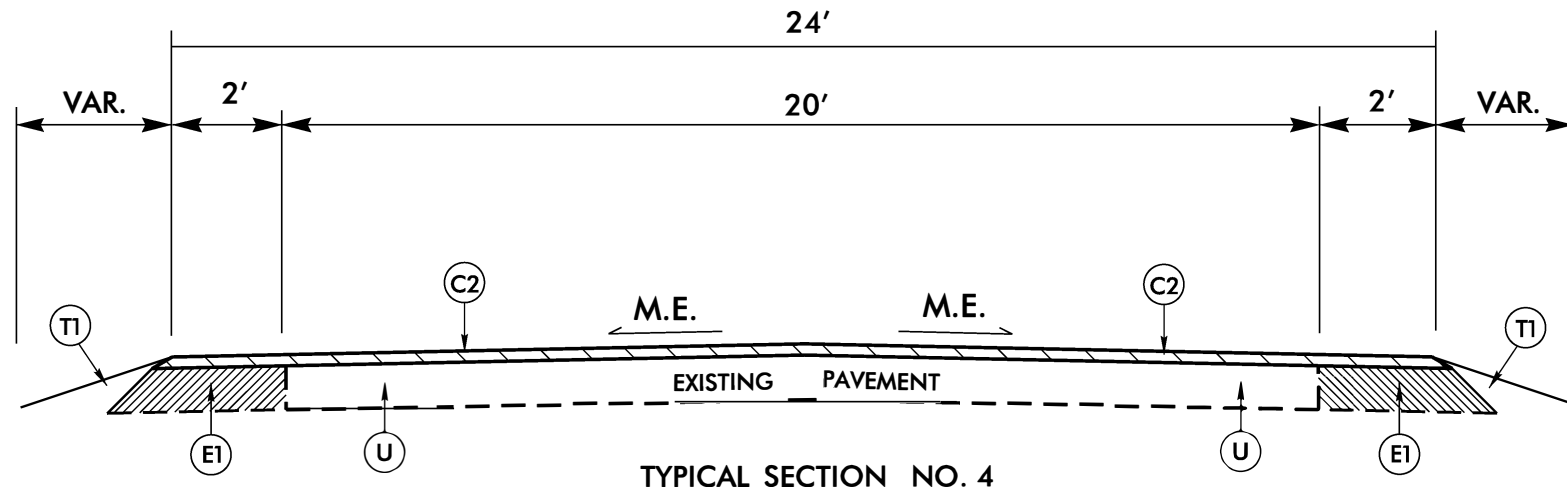
NOTES: MILL A SINGLE LANE AND PAVE BACK BY THE END OF EACH WORK DAY

SHOULDER WORK ON MAP NO. 1 - 4, 6 AS NEEDED, TO BE DETERMINED BY ENGINEER.

REVISIONS  
 25-MAP-2021(2)3  
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 \$\$\$SYTIME\$\$\$

8/17/99

PAVEMENT SCHEDULE	
C2	1½" S9.5B
E1	5" B25.0C
T1	EARTH MATERIAL SHOULDER RECONST.
U	EXISTING PAVEMENT



TYPICAL SECTION NO. 4

MAP NO. 5  
 SR 1422 (BLUE BANKS LOOP RD. NE)  
 MP 0.00 – MP 2.94

REVISIONS

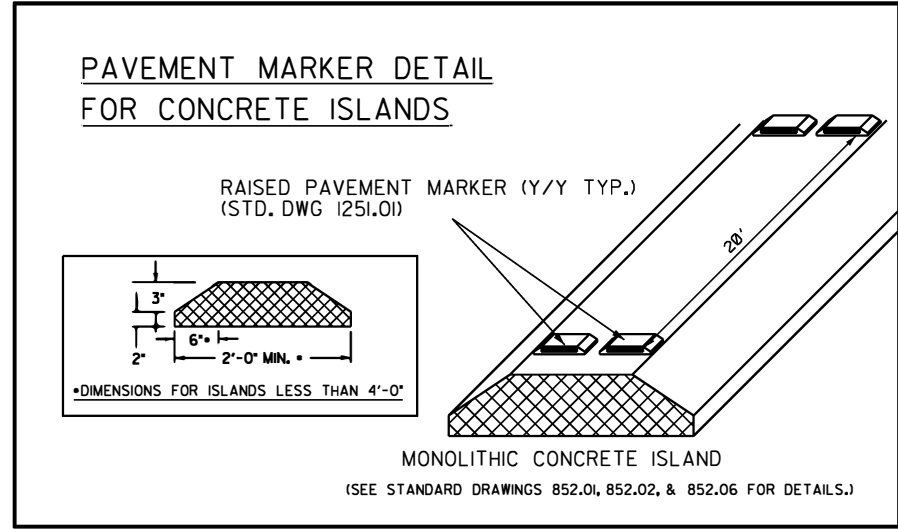
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 \$\$\$USERNAME\$\$\$

EFF. 01-16-2018  
REV.

2018 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N.C. Department of Transportation - Raleigh, N.C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
<b>DIVISION 8 - INCIDENTALS</b>	
862.01	Guardrail Placement
862.02	Guardrail Installation
<b>DIVISION 12 - PVMT MARKING, MARKERS AND DELINEATION</b>	
1205.08	Pavement Markings - Symbols & Word Messages



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

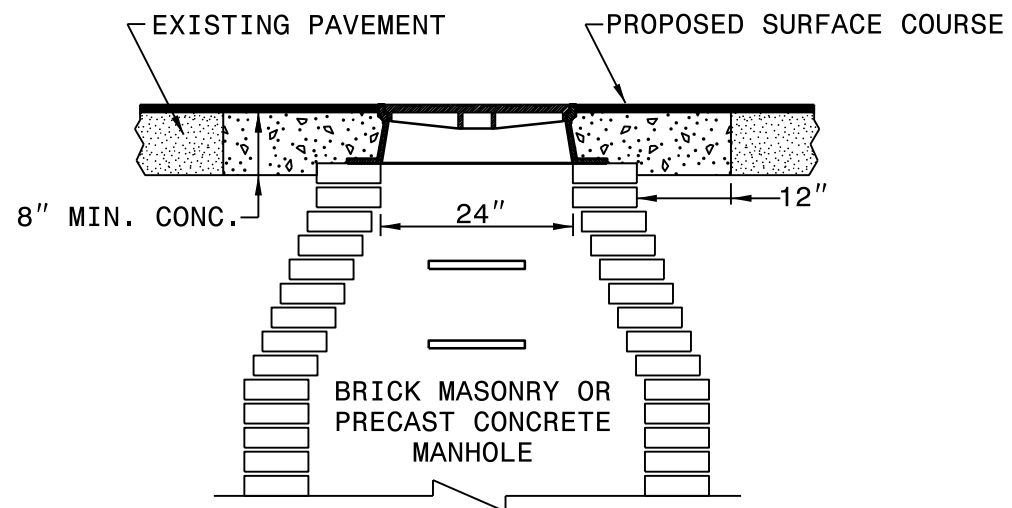
STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
**MANHOLE AND VALVE BOX ADJUSTMENTS**

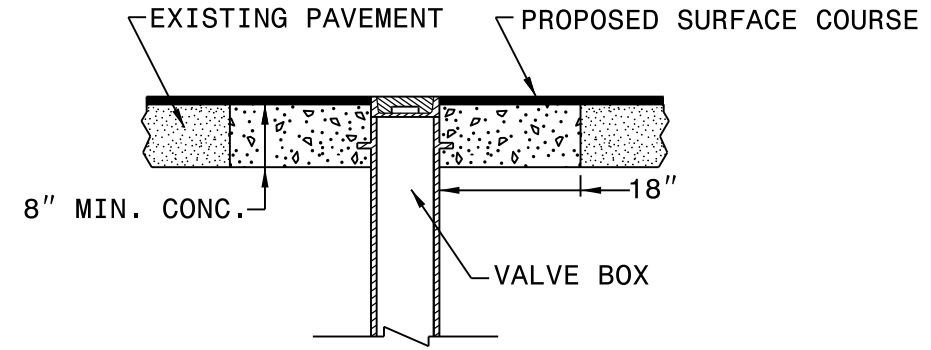
SHEET 1 OF 1  
**840D55**

GENERAL NOTES:

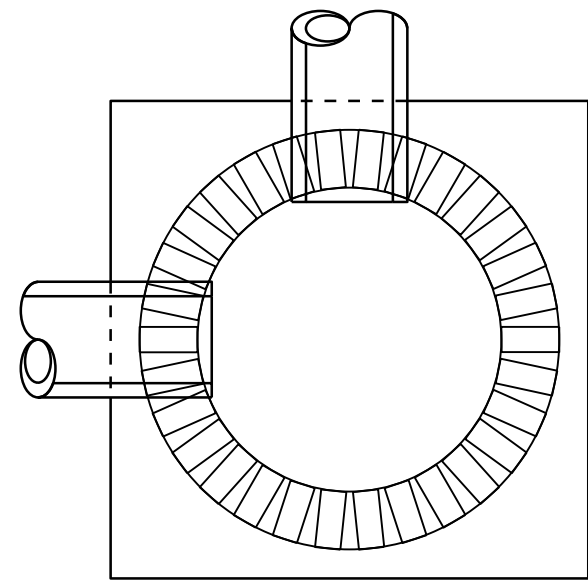
1. USE RAPID SET GROUT, MORTAR, OR CONCRETE THAT WILL TAKE FULL SET AND BECOME LOAD BEARING WITHIN SIXTY MINUTES OF PLACEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. REMOVE ALL FAULTY EXISTING BRICKWORK AND REPLACE WITH NEW BRICK MASONRY.
3. SHEER CUT EXCAVATION FOR THE ADJUSTMENT ON ALL SIDES.
4. FILL AREA BELOW 8" DEPTH WITH 78M OR NO. 57 CLEAN STONE.
5. MIX MORTAR TO NCDOT SPECIFICATIONS.
6. MORTAR JOINTS  $\frac{1}{2}$ " +/-  $\frac{1}{8}$ "
7. CONSTRUCT AN ASPHALT RAMP IN ACCORDANCE WITH SECTION 858-3 OF THE 2018 STANDARD SPECIFICATIONS.



**MANHOLE CONCRETE ENCASEMENT**



**VALVE BOX CONCRETE ENCASEMENT**



**ELEVATION VIEW**

PLACE BRICK ACCORDING TO ELEVATION VIEW

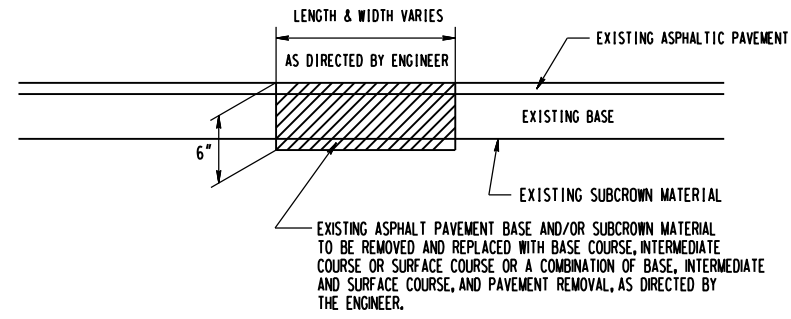
ENGLISH DETAIL DRAWING FOR  
**MANHOLE AND VALVE BOX ADJUSTMENTS**

SHEET 1 OF 1  
**840D55**

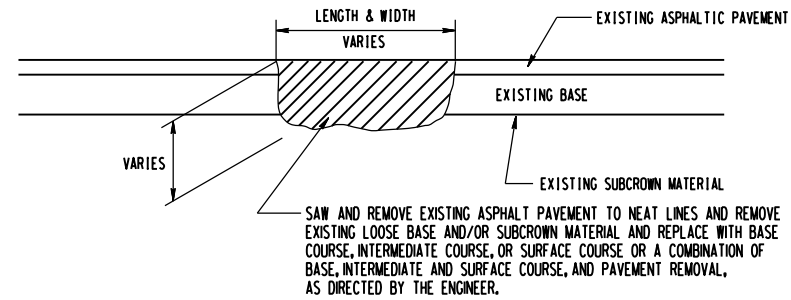
REVISIONS

28-NOV-2017 10:49  
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8/17/99

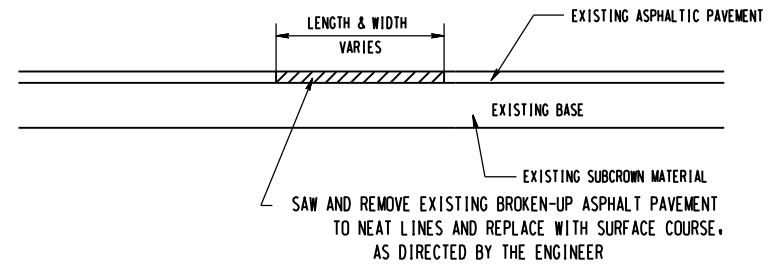
DETAILS OF REPAIRING EXISTING PAVEMENT PRIOR TO RESURFACING FOR FULL DEPTH AND MILLING



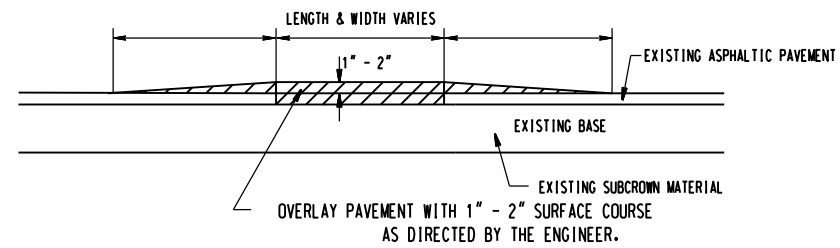
DETAIL NO. 1



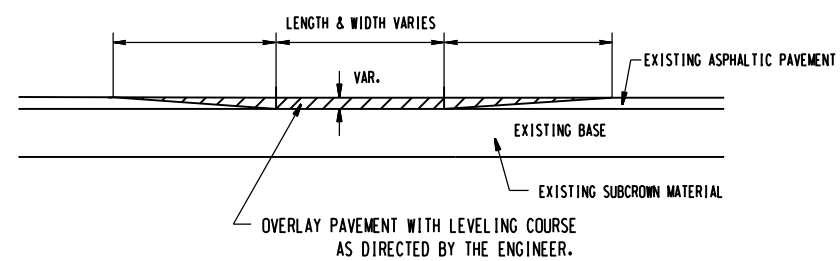
DETAIL NO. 2



DETAIL NO. 3



DETAIL NO. 4

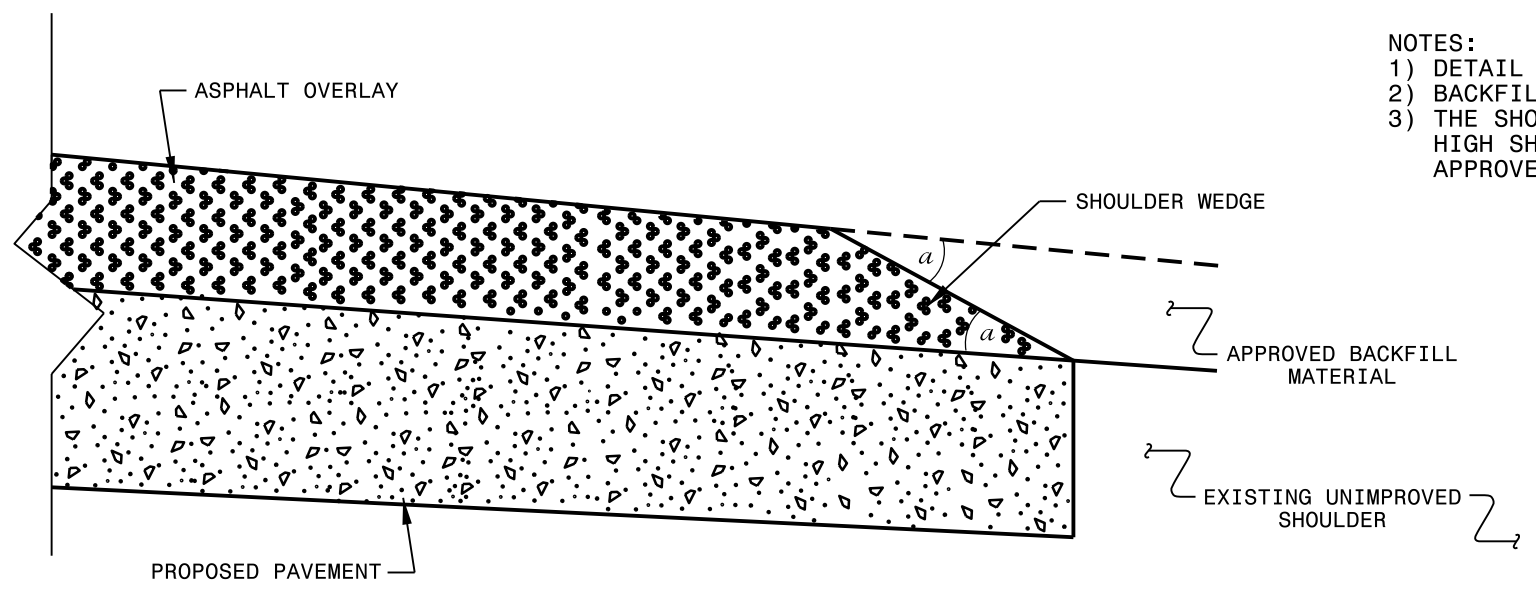


DETAIL NO. 5

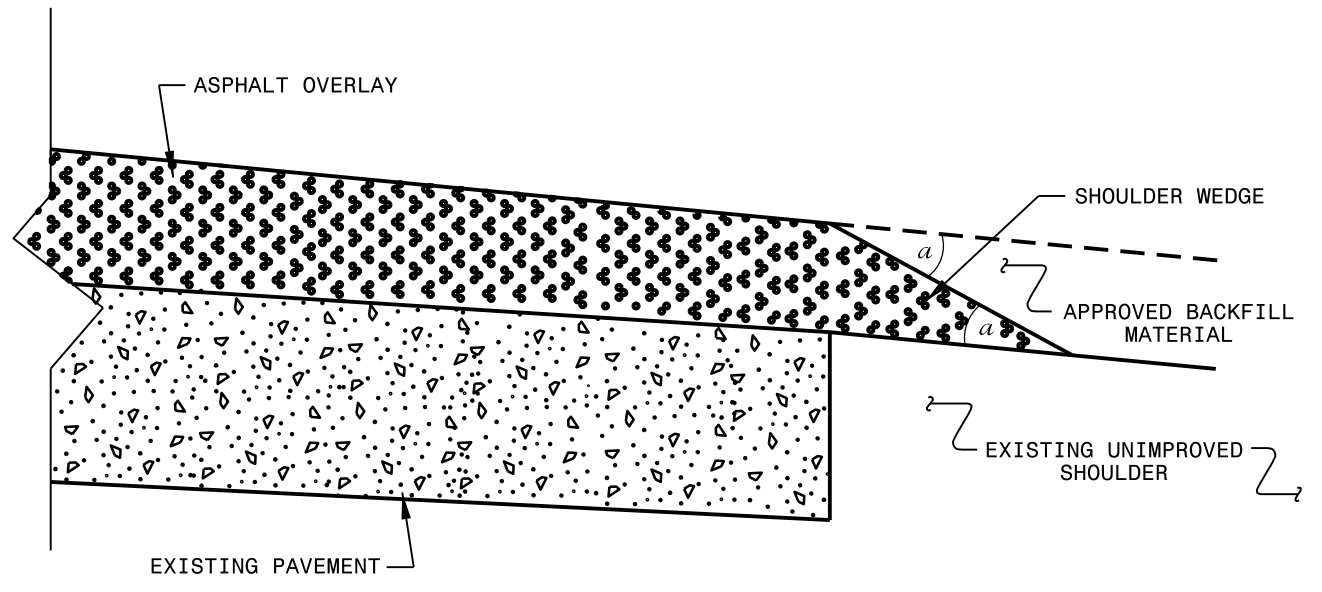
REVISIONS

20-APP-2015-1156  
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 \$\$\$SERNAME\$\$\$

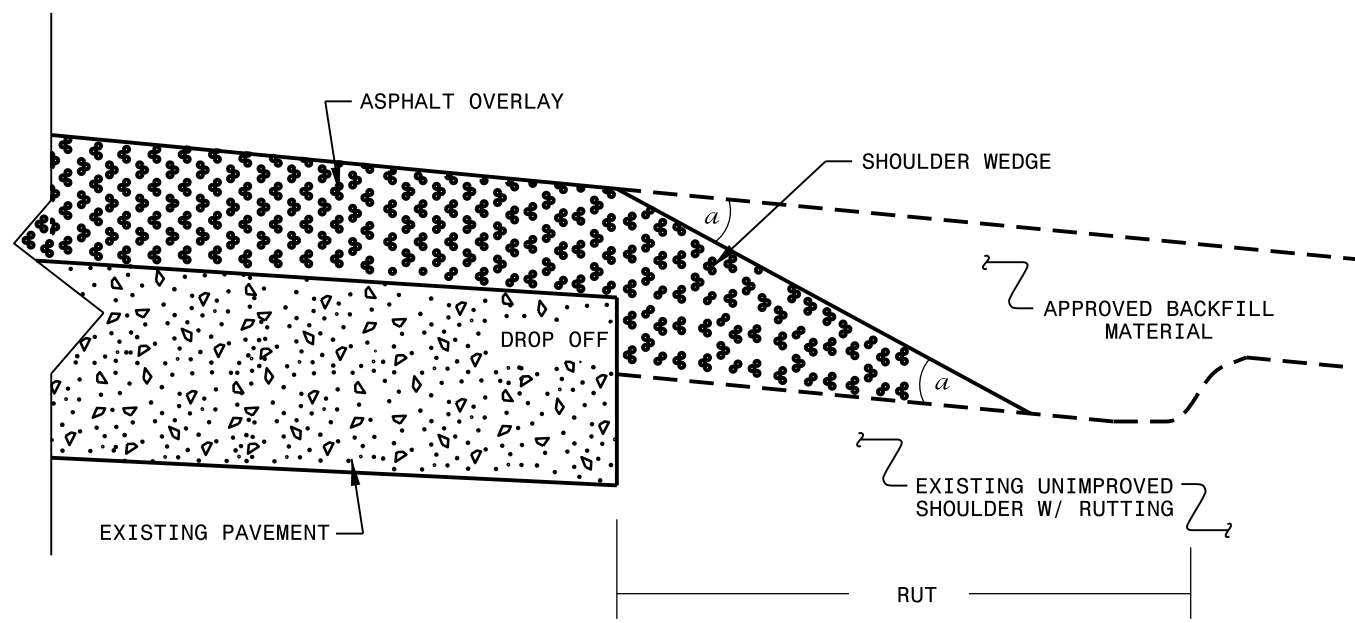
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



**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  
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 3\Sampson August 2018 Revised Shoulder Wedge Detail.dgn  
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DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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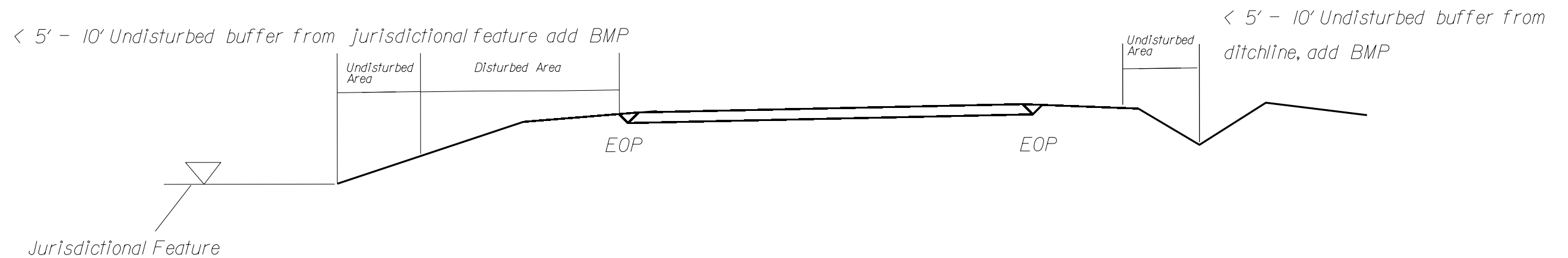
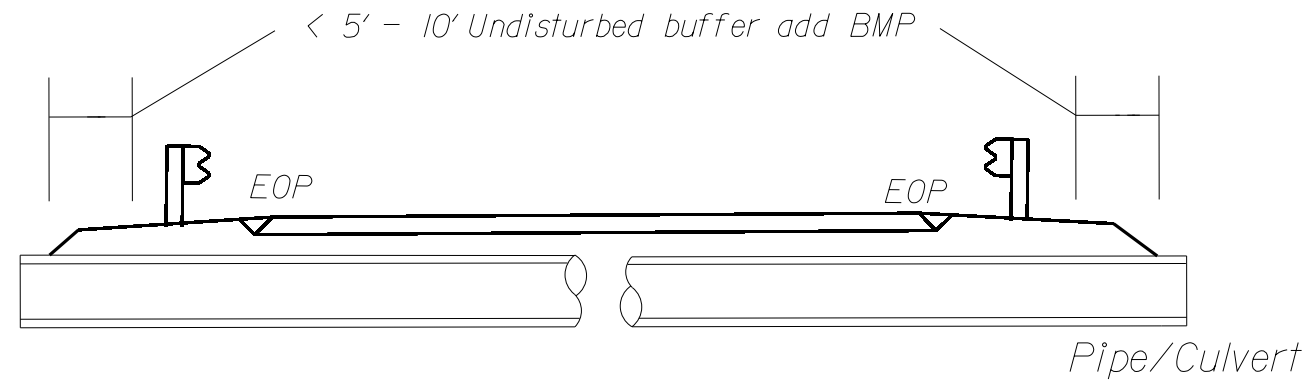
## ***SOIL STABILIZATION TIMEFRAMES***

<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

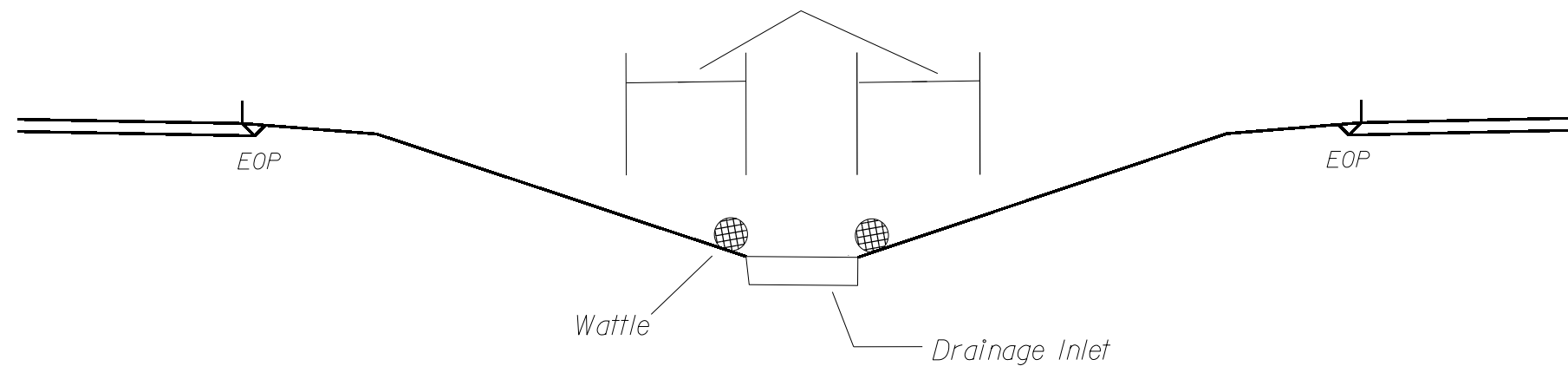
# EROSION CONTROL DETAIL



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



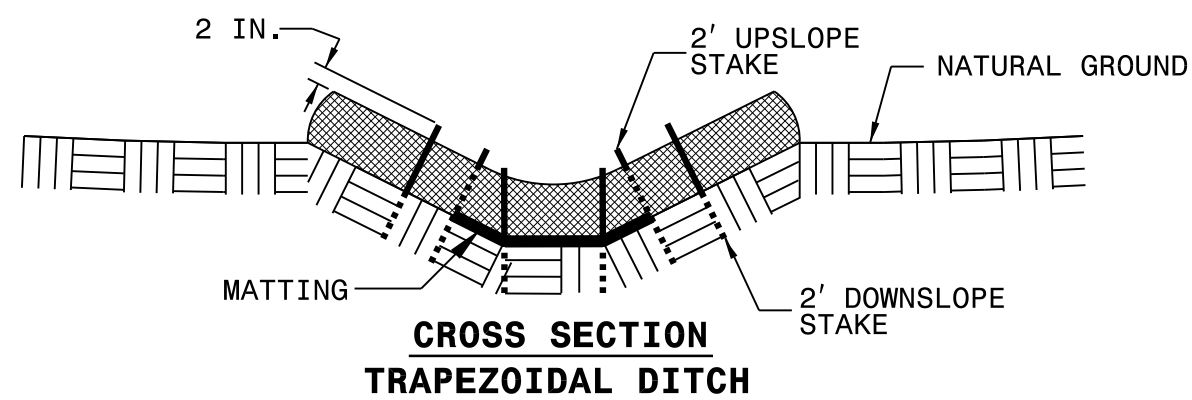
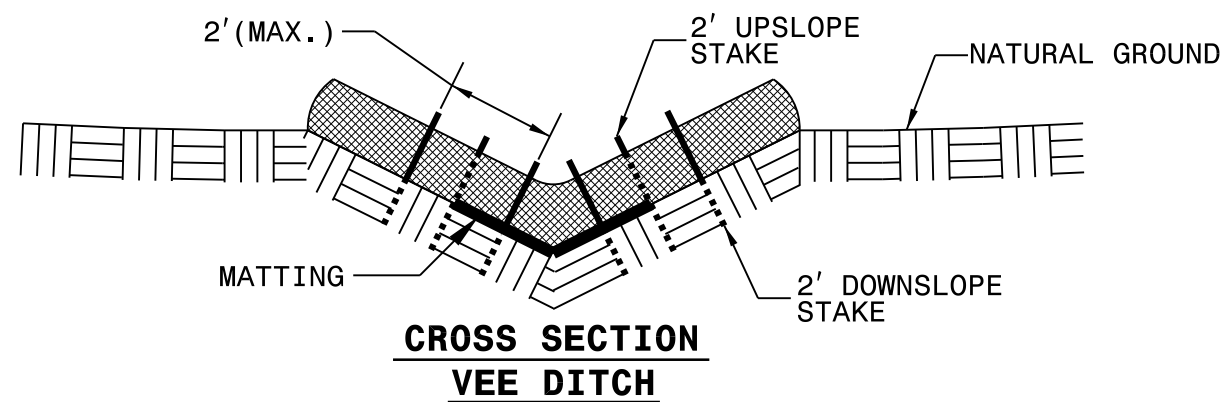
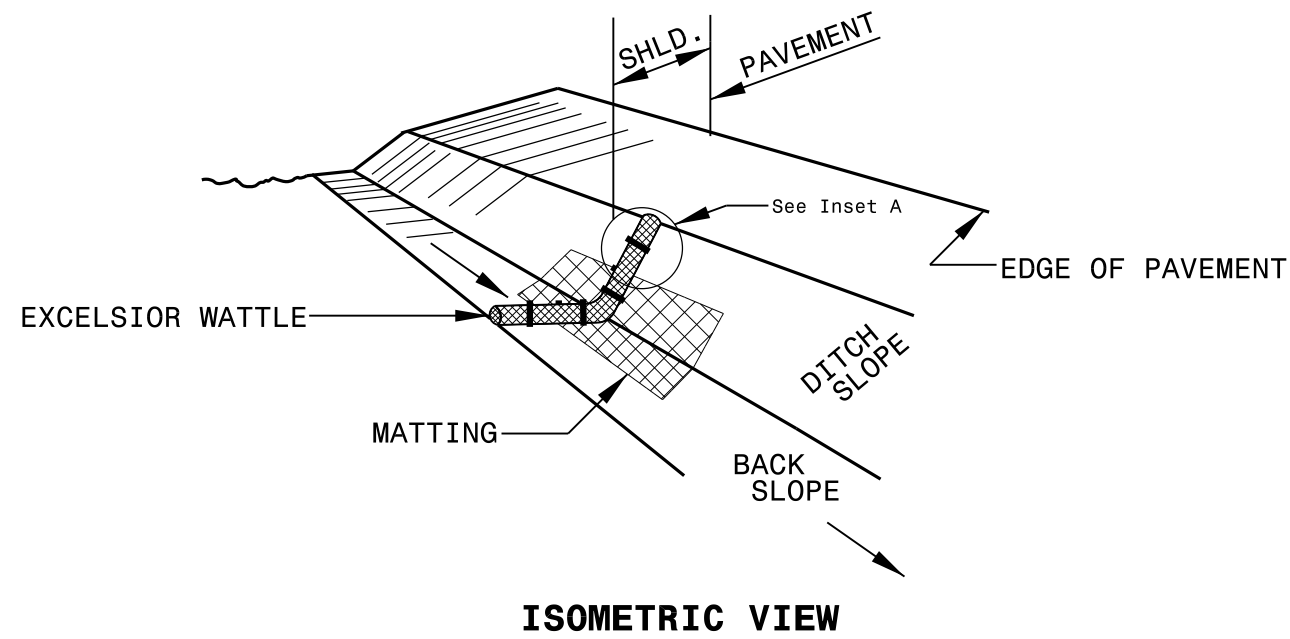
< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE



# WATTLE DETAIL



**NOTES:**

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

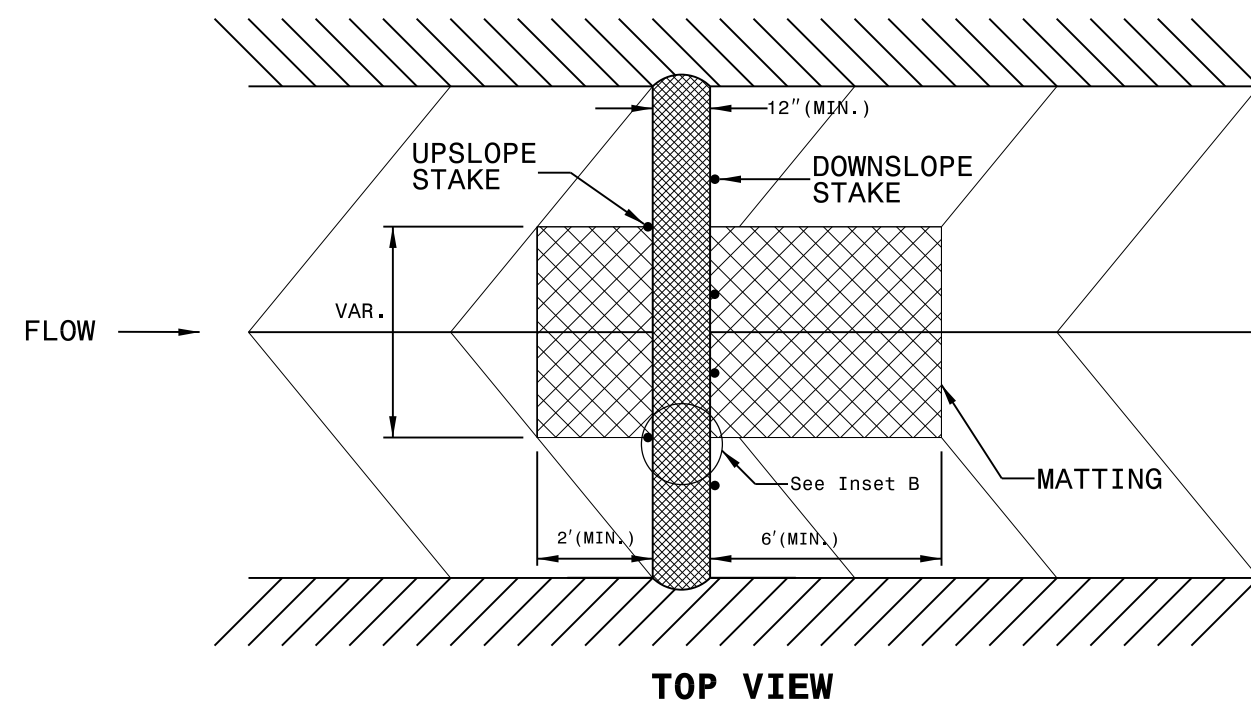
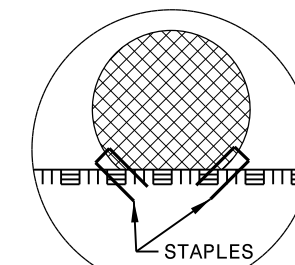
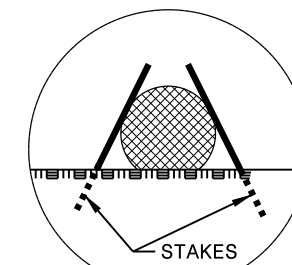
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



PROJECT NO.	SHEET NO.
2021CPT.03.16.10101, Etc.	7

**SUMMARY OF QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH		0106000000-E	1220000000-E	1245000000-E	1297000000-E	1330000000-E	1491000000-E	1519000000-E	1520000000-E	1523000000-E	1575000000-E		
										MI	FT	BORROW EXCAVATION	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	1.5" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX		
2021CPT.03.16.10101	Brunswick	1	US 17 NORTHBOUND (OCEAN HIGHWAY)	FROM 0.11 MILES EAST OF NC 904 (SEASIDE RD.) TO 0.15 MILES SOUTH OF US 17 BUS. (MAIN ST.) [MP 7.10 - MP 11.82]	1	2	MD	NO	NO	4.72	28	180	32	9.44	95,050	4,080				8,993	540		
<b>TOTAL FOR MAP NO. 1</b>											<b>4.72</b>		<b>180</b>	<b>32</b>	<b>9.44</b>	<b>95,050</b>	<b>4,080</b>				<b>8,993</b>	<b>540</b>	
2021CPT.03.16.10101	Brunswick	2	US 17 SOUTHBOUND (OCEAN HIGHWAY)	FROM 0.15 MILES SOUTH OF US 17 BUS. (MAIN ST.) TO 0.11 MILES NORTH OF NC 904 (SEASIDE RD.) [MP 35.51 - MP 40.23]	1	2	MD	NO	NO	4.72	28	180	36	9.44	92,184	4,080				8,733	524		
<b>TOTAL FOR MAP NO. 2</b>											<b>4.72</b>		<b>180</b>	<b>36</b>	<b>9.44</b>	<b>92,184</b>	<b>4,080</b>				<b>8,733</b>	<b>524</b>	
2021CPT.03.16.10101	Brunswick	3	NC 904 (LONGWOOD ROAD NW)	FROM 0.03 MILES SOUTH OF SR 1304 (PEA LANDING RD.) TO 0.03 MILES NORTH OF US 17 (OCEAN HWY.) [MP 8.17 - MP 10.88]	2	2	2WU	NO	NO	2.71	28	415	84	5.34		1,275		3,873	40		262		
<b>TOTAL FOR MAP NO. 3</b>											<b>2.71</b>		<b>415</b>	<b>84</b>	<b>5.34</b>		<b>1,275</b>		<b>3,873</b>	<b>40</b>		<b>262</b>	
<b>TOTAL FOR PROJ NO. 2021CPT.03.16.10101</b>											<b>12.15</b>		<b>775</b>	<b>152</b>	<b>24.22</b>	<b>187,234</b>	<b>9,435</b>		<b>3,873</b>	<b>40</b>		<b>17,726</b>	<b>1,326</b>
2021CPT.03.16.20101	Brunswick	4	SR 1340 (EXUM ROAD NW)	FROM SR 1335 (BIG NECK RD. NW) TO SR 1342 (MAKATOKA RD. NW) [MP 0.00 - MP 4.15]	3	2	2WU	NO	NO	4.15	18	634	82	8.30		211		3,823			256		
<b>TOTAL FOR MAP NO. 4</b>											<b>4.15</b>		<b>634</b>	<b>82</b>	<b>8.30</b>		<b>211</b>		<b>3,823</b>			<b>256</b>	
2021CPT.03.16.20101	Brunswick	5	SR 1422 (BLUE BANKS LOOP ROAD NE)	FROM SR 1426 (MT.MISERY RD.) TO GRIST CREEK WYND. [MP 0.00 - MP 2.94]	4	2	2WU	NO	NO	2.94	24	449	80	5.88		133	2,374	3,604			348		
<b>TOTAL FOR MAP NO. 5</b>											<b>2.94</b>		<b>449</b>	<b>80</b>	<b>5.88</b>		<b>133</b>	<b>2,374</b>	<b>3,604</b>			<b>348</b>	
2021CPT.03.16.20101	Brunswick	6	SR 1472 (VILLAGE ROAD NE)	FROM SR 1438 (LANVALE RD.) TO SR 1455 (LINCOLN RD.) [MP 0.55 - MP 1.38]	3	2	2WU	NO	NO	0.83	22	90	20	1.18		120		1,037			70		
<b>TOTAL FOR MAP NO. 6</b>											<b>0.83</b>		<b>90</b>	<b>20</b>	<b>1.18</b>		<b>120</b>		<b>1,037</b>			<b>70</b>	
<b>TOTAL FOR PROJ NO. 2021CPT.03.16.20101</b>											<b>7.92</b>		<b>1,173</b>	<b>182</b>	<b>15.36</b>		<b>464</b>	<b>2,374</b>	<b>8,464</b>			<b>674</b>	
<b>GRAND TOTAL</b>											<b>20.07</b>		<b>1,948</b>	<b>334</b>	<b>39.58</b>	<b>187,234</b>	<b>9,899</b>	<b>2,374</b>	<b>12,337</b>	<b>40</b>		<b>17,726</b>	<b>2,000</b>



PROJECT NO.	SHEET NO.
2021CPT.03.16.10101, Etc.	9

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH		6009000000-E	6012000000-E	6015000000-E	6018000000-E	6021000000-E	6036000000-E	6042000000-E	6071010000-E	6084000000-E	6090000000-E	6093000000-E	6117000000-N	7444000000-E
										MI	FT	STONE FOR EC CLASS B	SEDIMENT CONTROL STONE	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
											TON	TON	ACR	LBS	TON	SY	LF	LF	AC	LB	TON	EA	LF	
2021CPT.03.16.10101	Brunswick	1	US 17 NORTHBOUND (OCEAN HIGHWAY)	FROM 0.11 MILES EAST OF NC 904 (SEASIDE RD.) TO 0.15 MILES SOUTH OF US 17 BUS. (MAIN ST.) [MP 7.10 - MP 11.82]	1	2	MD	NO	NO	4.72	28	118	163	4.72	236	1.18	40	236	80	4.58	236	1.18	4	3,280.00
<b>TOTAL FOR MAP NO. 1</b>											<b>4.72</b>	<b>118</b>	<b>163</b>	<b>4.72</b>	<b>236</b>	<b>1.18</b>	<b>40</b>	<b>236</b>	<b>80</b>	<b>4.58</b>	<b>236</b>	<b>1.18</b>	<b>4</b>	<b>3,280.00</b>
2021CPT.03.16.10101	Brunswick	2	US 17 SOUTHBOUND (OCEAN HIGHWAY)	FROM 0.15 MILES SOUTH OF US 17 BUS. (MAIN ST.) TO 0.11 MILES NORTH OF NC 904 (SEASIDE RD.) [MP 35.51 - MP 40.23]	1	2	MD	NO	NO	4.72	28	118	118	4.72	236	1.18	40	236	80	4.58	236	1.18	4	
<b>TOTAL FOR MAP NO. 2</b>											<b>4.72</b>	<b>118</b>	<b>118</b>	<b>4.72</b>	<b>236</b>	<b>1.18</b>	<b>40</b>	<b>236</b>	<b>80</b>	<b>4.58</b>	<b>236</b>	<b>1.18</b>	<b>4</b>	
2021CPT.03.16.10101	Brunswick	3	NC 904 (LONGWOOD ROAD NW)	FROM 0.03 MILES SOUTH OF SR 1304 (PEA LANDING RD.) TO 0.03 MILES NORTH OF US 17 (OCEAN HWY.) [MP 8.17 - MP 10.88]	2	2	2WU	NO	NO	2.71	28	67	67	2.67	134	0.67	20	134	50	2.59	134	0.67	4	
<b>TOTAL FOR MAP NO. 3</b>											<b>2.71</b>	<b>67</b>	<b>67</b>	<b>2.67</b>	<b>134</b>	<b>0.67</b>	<b>20</b>	<b>134</b>	<b>50</b>	<b>2.59</b>	<b>134</b>	<b>0.67</b>	<b>4</b>	
<b>TOTAL FOR PROJ NO. 2021CPT.03.16.10101</b>											<b>12.15</b>	<b>303</b>	<b>348</b>	<b>12.11</b>	<b>606</b>	<b>3.03</b>	<b>100</b>	<b>606</b>	<b>210</b>	<b>11.75</b>	<b>606</b>	<b>3.03</b>	<b>12</b>	<b>3,280.00</b>
2021CPT.03.16.20101	Brunswick	4	SR 1340 (EXUM ROAD NW)	FROM SR 1335 (BIG NECK RD. NW) TO SR 1342 (MAKATOKA RD. NW) [MP 0.00 - MP 4.15]	3	2	2WU	NO	NO	4.15	18	64	104	4.15	208	1.04	30	208	70	4.02	208	1.04	4	
<b>TOTAL FOR MAP NO. 4</b>											<b>4.15</b>	<b>64</b>	<b>104</b>	<b>4.15</b>	<b>208</b>	<b>1.04</b>	<b>30</b>	<b>208</b>	<b>70</b>	<b>4.02</b>	<b>208</b>	<b>1.04</b>	<b>4</b>	
2021CPT.03.16.20101	Brunswick	5	SR 1422 (BLUE BANKS LOOP ROAD NE)	FROM SR 1426 (MT. MISERY RD.) TO GRIST CREEK WYND. [MP 0.00 - MP 2.94]	4	2	2WU	NO	NO	2.94	24	74	74	2.94	147	0.74	20	147	50	2.85	147	0.74	2	
<b>TOTAL FOR MAP NO. 5</b>											<b>2.94</b>	<b>74</b>	<b>74</b>	<b>2.94</b>	<b>147</b>	<b>0.74</b>	<b>20</b>	<b>147</b>	<b>50</b>	<b>2.85</b>	<b>147</b>	<b>0.74</b>	<b>2</b>	
2021CPT.03.16.20101	Brunswick	6	SR 1472 (VILLAGE ROAD NE)	FROM SR 1438 (LANVALE RD.) TO SR 1455 (LINCOLN RD.) [MP 0.55 - MP 1.38]	3	2	2WU	NO	NO	0.83	22	15	15	0.59	30	0.15	10	30	10	0.57	30	0.15	2	
<b>TOTAL FOR MAP NO. 6</b>											<b>0.83</b>	<b>15</b>	<b>15</b>	<b>0.59</b>	<b>30</b>	<b>0.15</b>	<b>10</b>	<b>30</b>	<b>10</b>	<b>0.57</b>	<b>30</b>	<b>0.15</b>	<b>2</b>	
<b>TOTAL FOR PROJ NO. 2021CPT.03.16.20101</b>											<b>7.92</b>	<b>153</b>	<b>193</b>	<b>7.68</b>	<b>385</b>	<b>1.93</b>	<b>60</b>	<b>385</b>	<b>130</b>	<b>7.44</b>	<b>385</b>	<b>1.93</b>	<b>8</b>	
<b>GRAND TOTAL</b>											<b>20.07</b>	<b>456</b>	<b>541</b>	<b>19.79</b>	<b>991</b>	<b>4.96</b>	<b>160</b>	<b>991</b>	<b>340</b>	<b>19.19</b>	<b>991</b>	<b>4.96</b>	<b>20</b>	<b>3,280.00</b>

PROJECT NO.	SHEET NO.
2021CPT.03.16.10101, Etc.	10

## THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH		WORK ZONE ADVANCE/GENERAL WARNING SIGNING	PORT CHANG MSG SIGN	SEQUENTIAL FLASHING WARNING LIGHTS	TEMPORARY TRAFFIC CONTROL	TMA	LAW ENFORCEMENT	4685000000-E			4720000000-E	
								MI	FT							4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO		THERMO RXR 90 MILS
								SF	EA	EA	LS	EA	HR	LF	LF	LF	EA			
2021CPT.03.16.10101	Brunswick	1	US 17 NORTHBOUND (OCEAN HIGHWAY)	FROM 0.11 MILES EAST OF NC 904 (SEASIDE RD.) TO 0.15 MILES SOUTH OF US 17 BUS. (MAIN ST.) [MP 7.10 - MP 11.82]	1	2	MD	4.72	28	528	1	17	0.25	1	120	34,246	26,785	730		
<b>TOTAL FOR MAP NO. 1</b>								<b>4.72</b>		<b>528</b>	<b>1</b>	<b>17</b>	<b>0.25</b>	<b>1</b>	<b>120</b>	<b>34,246</b>	<b>26,785</b>	<b>730</b>		
2021CPT.03.16.10101	Brunswick	2	US 17 SOUTHBOUND (OCEAN HIGHWAY)	FROM 0.15 MILES SOUTH OF US 17 BUS. (MAIN ST.) TO 0.11 MILES NORTH OF NC 904 (SEASIDE RD.) [MP 35.51 - MP 40.23]	1	2	MD	4.72	28	528	1	17	0.25	1	120	37,765	26,557	300		
<b>TOTAL FOR MAP NO. 2</b>								<b>4.72</b>		<b>528</b>	<b>1</b>	<b>17</b>	<b>0.25</b>	<b>1</b>	<b>120</b>	<b>37,765</b>	<b>26,557</b>	<b>300</b>		
2021CPT.03.16.10101	Brunswick	3	NC 904 (LONGWOOD ROAD NW)	FROM 0.03 MILES SOUTH OF SR 1304 (PEA LANDING RD.) TO 0.03 MILES NORTH OF US 17 (OCEAN HWY.) [MP 8.17 - MP 10.88]	2	2	2WU	2.71	28	304			0.15			28,623	25,040	173		
<b>TOTAL FOR MAP NO. 3</b>								<b>2.71</b>		<b>304</b>			<b>0.15</b>			<b>28,623</b>	<b>25,040</b>	<b>173</b>		
<b>TOTAL FOR PROJ NO. 2021CPT.03.16.10101</b>								<b>12.15</b>		<b>1,360</b>	<b>2</b>	<b>34</b>	<b>0.65</b>	<b>2</b>	<b>240</b>	<b>100,634</b>	<b>78,382</b>	<b>1,203</b>		
																<b>179,016</b>				
2021CPT.03.16.20101	Brunswick	4	SR 1340 (EXUM ROAD NW)	FROM SR 1335 (BIG NECK RD. NW) TO SR 1342 (MAKATOKA RD. NW) [MP 0.00 - MP 4.15]	3	2	2WU	4.15	18	112			0.18							
<b>TOTAL FOR MAP NO. 4</b>								<b>4.15</b>		<b>112</b>			<b>0.18</b>							
2021CPT.03.16.20101	Brunswick	5	SR 1422 (BLUE BANKS LOOP ROAD NE)	FROM SR 1426 (MT. MISERY RD.) TO GRIST CREEK WYND. [MP 0.00 - MP 2.94]	4	2	2WU	2.94	24	336			0.12							
<b>TOTAL FOR MAP NO. 5</b>								<b>2.94</b>		<b>336</b>			<b>0.12</b>							
2021CPT.03.16.20101	Brunswick	6	SR 1472 (VILLAGE ROAD NE)	FROM SR 1438 (LANVALE RD.) TO SR 1455 (LINCOLN RD.) [MP 0.55 - MP 1.38]	3	2	2WU	0.83	22				0.05			11,165	5,590	4		
<b>TOTAL FOR MAP NO. 6</b>								<b>0.83</b>					<b>0.05</b>			<b>11,165</b>	<b>5,590</b>	<b>4</b>		
<b>TOTAL FOR PROJ NO. 2021CPT.03.16.20101</b>								<b>7.92</b>		<b>448</b>			<b>0.35</b>			<b>11,165</b>	<b>5,590</b>	<b>4</b>		
																<b>16,755</b>				
<b>GRAND TOTAL</b>								<b>20.07</b>		<b>1,808</b>	<b>2</b>	<b>34</b>	<b>1.00</b>	<b>2</b>	<b>240</b>	<b>111,799</b>	<b>83,972</b>	<b>1,203</b>	<b>4</b>	
																<b>195,771</b>				

PROJECT NO.	SHEET NO.
2021CPT.03.16.10101, Etc.	11

**THERMOPLASTIC AND PAINT QUANTITIES**

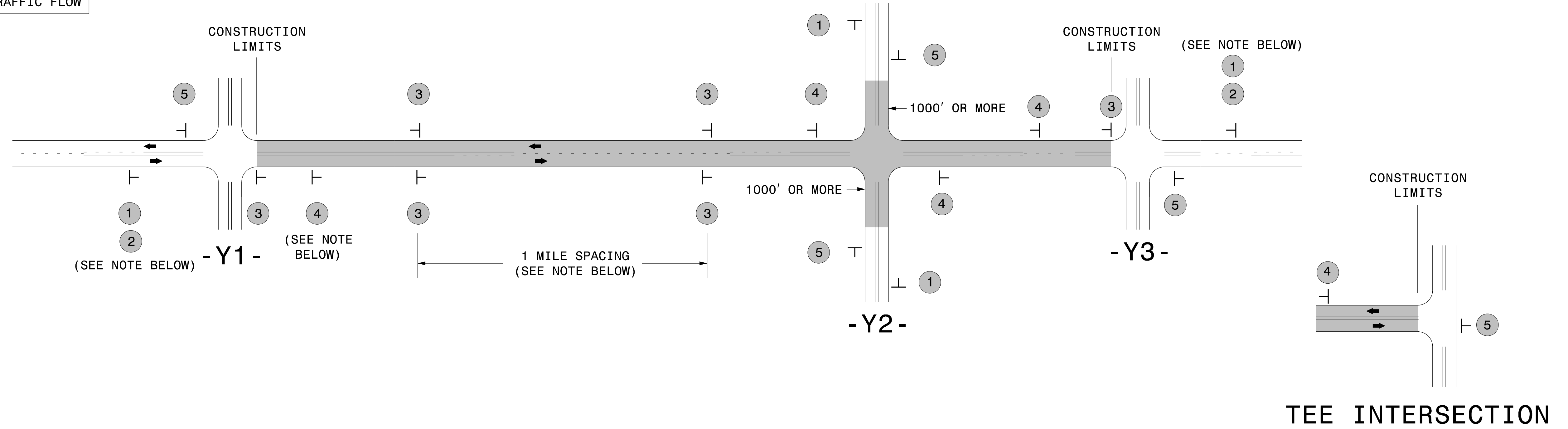
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4725000000-E				4810000000-E		4891000000-E		4900000000-N		4905000000-N					
										THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR ARROW 90 M	24" YIELD LINE TRIANGLE (90 MIL)	THERMO STR & RT ARROW 90 M	4" YELLOW PAINT	4" WHITE PAINT	GENERIC MARKING, 24" X 90 M WHITE THERMO	GENERIC MARKING, 16 X 90 M WHITE THERMO	YELLOW & YELLOW MARKERS	CRYSTAL & RED MARKERS	SNOW PLOWABLE MARKERS (C/R)	SNOW PLOWABLE MARKERS (Y/Y)			
									MI	FT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA					
2021CPT.03.16.10101	Brunswick	1	US 17 NORTHBOUND (OCEAN HIGHWAY)	FROM 0.11 MILES EAST OF NC 904 (SEASIDE RD.) TO 0.15 MILES SOUTH OF US 17 BUS. (MAIN ST.) [MP 7.10 - MP 11.82]	1	2	MD	4.72	28			32	5	62	20			215		34		591			
<b>TOTAL FOR MAP NO. 1</b>									<b>4.72</b>		<b>32</b>	<b>5</b>	<b>62</b>	<b>20</b>			<b>215</b>		<b>34</b>		<b>591</b>				
2021CPT.03.16.10101	Brunswick	2	US 17 SOUTHBOUND (OCEAN HIGHWAY)	FROM 0.15 MILES SOUTH OF US 17 BUS. (MAIN ST.) TO 0.11 MILES NORTH OF NC 904 (SEASIDE RD.) [MP 35.51 - MP 40.23]	1	2	MD	4.72	28			32	10	62	20			300		20		604			
<b>TOTAL FOR MAP NO. 2</b>									<b>4.72</b>		<b>32</b>	<b>10</b>	<b>62</b>	<b>20</b>			<b>300</b>		<b>20</b>		<b>604</b>				
2021CPT.03.16.10101	Brunswick	3	NC 904 (LONGWOOD ROAD NW)	FROM 0.03 MILES SOUTH OF SR 1304 (PEA LANDING RD.) TO 0.03 MILES NORTH OF US 17 (OCEAN HWY.) [MP 8.17 - MP 10.88]	2	2	2WU	2.71	28			1		4				28		5		5	223		
<b>TOTAL FOR MAP NO. 3</b>									<b>2.71</b>		<b>1</b>		<b>4</b>			<b>2</b>		<b>28</b>		<b>5</b>		<b>5</b>	<b>223</b>		
<b>TOTAL FOR PROJ NO. 2021CPT.03.16.10101</b>									<b>12.15</b>		<b>65</b>	<b>15</b>	<b>128</b>	<b>40</b>	<b>2</b>			<b>543</b>		<b>59</b>		<b>1,200</b>	<b>223</b>		
												<b>250</b>				<b>543</b>			<b>59</b>		<b>1,423</b>				
2021CPT.03.16.20101	Brunswick	4	SR 1340 (EXUM ROAD NW)	FROM SR 1335 (BIG NECK RD. NW) TO SR 1342 (MAKATOKA RD. NW) [MP 0.00 - MP 4.15]	3	2	2WU	4.15	18									65,736	87,648			274			
<b>TOTAL FOR MAP NO. 4</b>									<b>4.15</b>									<b>65,736</b>	<b>87,648</b>			<b>274</b>			
2021CPT.03.16.20101	Brunswick	5	SR 1422 (BLUE BANKS LOOP ROAD NE)	FROM SR 1426 (MT.MISERY RD.) TO GRIST CREEK WYND. [MP 0.00 - MP 2.94]	4	2	2WU	2.94	24									62,093	62,093			195			
<b>TOTAL FOR MAP NO. 5</b>									<b>2.94</b>									<b>62,093</b>	<b>62,093</b>			<b>195</b>			
2021CPT.03.16.20101	Brunswick	6	SR 1472 (VILLAGE ROAD NE)	FROM SR 1438 (LANVALE RD.) TO SR 1455 (LINCOLN RD.) [MP 0.55 - MP 1.38]	3	2	2WU	0.83	22									100	100			66	4		
<b>TOTAL FOR MAP NO. 6</b>									<b>0.83</b>									<b>100</b>	<b>100</b>			<b>66</b>	<b>4</b>		
<b>TOTAL FOR PROJ NO. 2021CPT.03.16.20101</b>									<b>7.92</b>									<b>127,829</b>	<b>149,741</b>	<b>100</b>	<b>100</b>	<b>535</b>	<b>4</b>		
												<b>277,570</b>				<b>200</b>			<b>539</b>						
<b>GRAND TOTAL</b>									<b>20.07</b>		<b>65</b>	<b>15</b>	<b>128</b>	<b>40</b>	<b>2</b>			<b>127,829</b>	<b>149,741</b>	<b>643</b>	<b>100</b>	<b>594</b>	<b>4</b>	<b>1,200</b>	<b>223</b>
												<b>250</b>				<b>277,570</b>			<b>743</b>		<b>598</b>		<b>1,423</b>		

# SIGNING FOR RESURFACING PROJECTS

**LEGEND**

┆ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



<b>SIGNING NOTES AND PLACEMENT PER DIRECTION</b>	1	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.
	2	 <small>W7-3aP 24" X 18"</small>	#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	 <small>SP 13107 48" X 48"</small>	- 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	 <small>SP 13106 48" X 48"</small>	- 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	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.

**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.

W20-1  
48" X 48"  
 PLACED 500' IN ADVANCE OF FLAGGER.

W20-7 A  
48" X 48"  
 PLACED 250' IN ADVANCE OF FLAGGER.

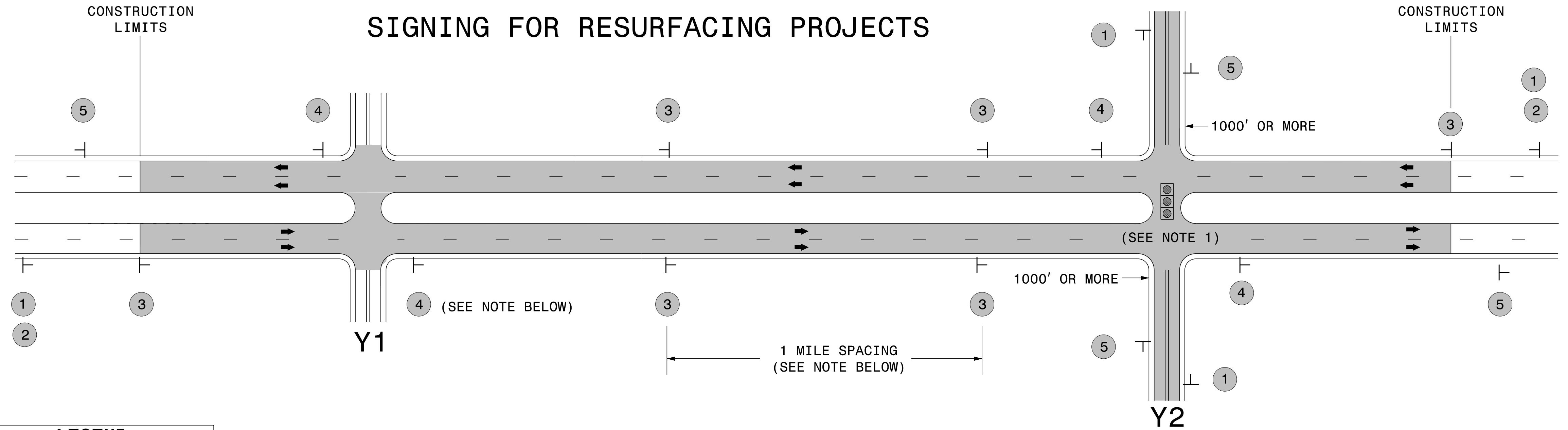
**MAPS LESS THAN 2 MILES**

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.

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



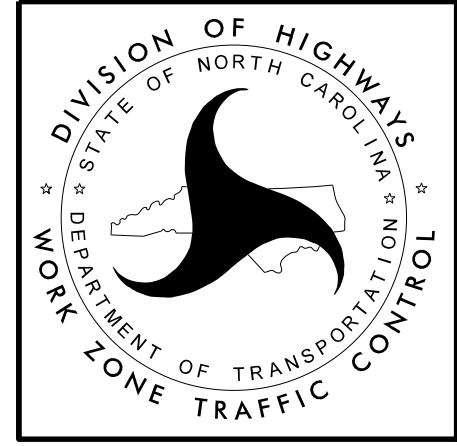
**LEGEND**  
 ┆ STATIONARY SIGN  
 ← DIRECTION OF TRAFFIC FLOW

**MAINLINE (-L-) SIGNING**

**-Y- LINE SIGNING**

SIGNING NOTES AND PLACEMENT PER DIRECTION	 	<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>	<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;"> <div style="text-align: center;">   <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;">   <small>W20-7 A 48" X 48"</small> </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>
		<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>	
		<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>	
		<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>	

3/23/2015  
 C:\Users\rmgarrrett\Downloads\Resurfacing\_AdvWarn\_Lr-Su\_Shldr.dgn  
 User:rmgarrrett



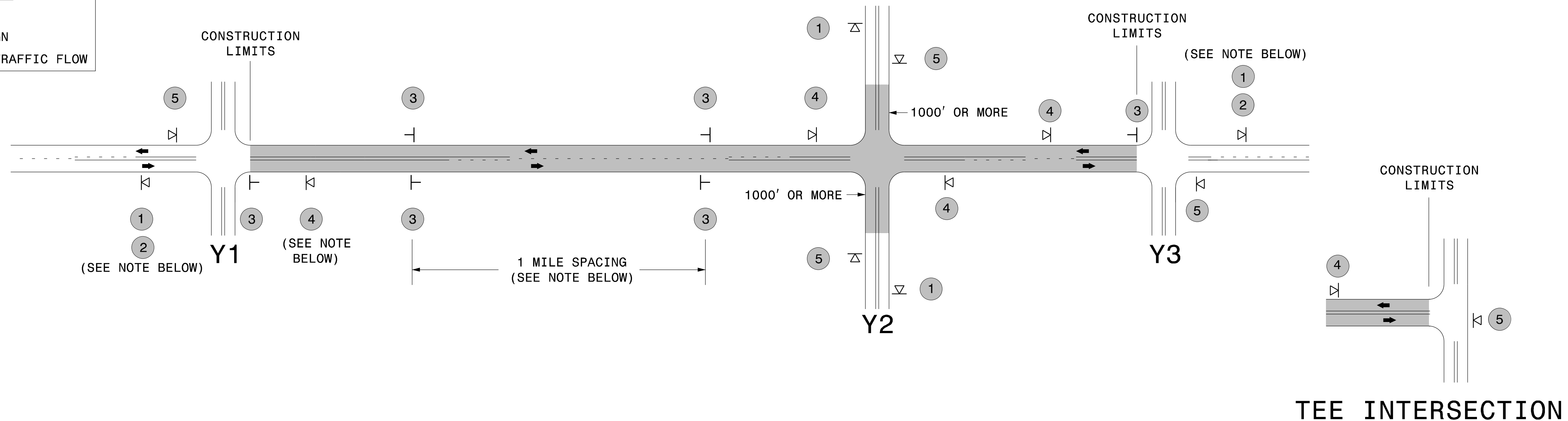
**RESURFACING  
 ADVANCE WARNING SIGNS  
 FOR RURAL AND SUBURBAN  
 MULTI-LANE ROADWAYS  
 W/ SHOULDER SECTIONS**



## SIGNING FOR ASPHALT SURFACE TREATMENT

**LEGEND**

- ◻ PORTABLE SIGN
- ┌ STATIONARY SIGN
- ← DIRECTION OF TRAFFIC FLOW



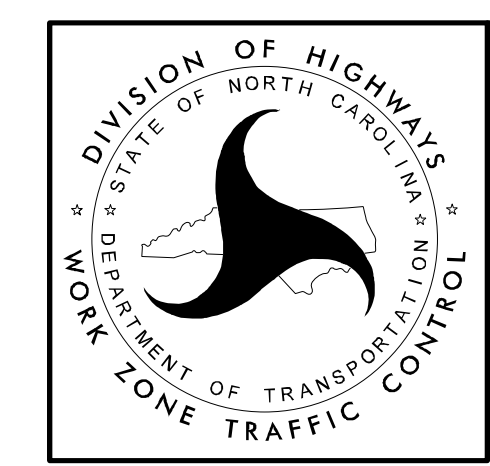
### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

<b>SIGNING NOTES AND PLACEMENT PER DIRECTION</b>	1	 	<ul style="list-style-type: none"> <li>- PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</li> <li>- SIGN #2 ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO THE NEAREST WHOLE NUMBER. DO NOT USE FRACTIONAL OR DECIMAL NUMBERS.</li> </ul>	<p><b>STATIONARY SIGNING NOT REQUIRED 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, 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; align-items: center;"> <div style="text-align: center;">   <small>W20-1 48" X 48"</small>              PLACED 500' IN ADVANCE OF FLAGGER.         </div> <div style="text-align: center;">   <small>W20-7 A 48" X 48"</small>              PLACED 250' IN ADVANCE OF FLAGGER.         </div> </div>
	3	 	<ul style="list-style-type: none"> <li>- ALTERNATE THE FOLLOWING TWO SIGNS:</li> <li>- STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT".</li> <li>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER.</li> <li>- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</li> </ul>	
	4		<ul style="list-style-type: none"> <li>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</li> <li>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</li> <li>- 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.</li> <li>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</li> </ul>	
	5		<ul style="list-style-type: none"> <li>- PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</li> </ul>	
	<p>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.</p>			

**MAPS LESS THAN 2 MILES**

FOR AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY "LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.



**ADVANCE WARNING SIGNS FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMENT**