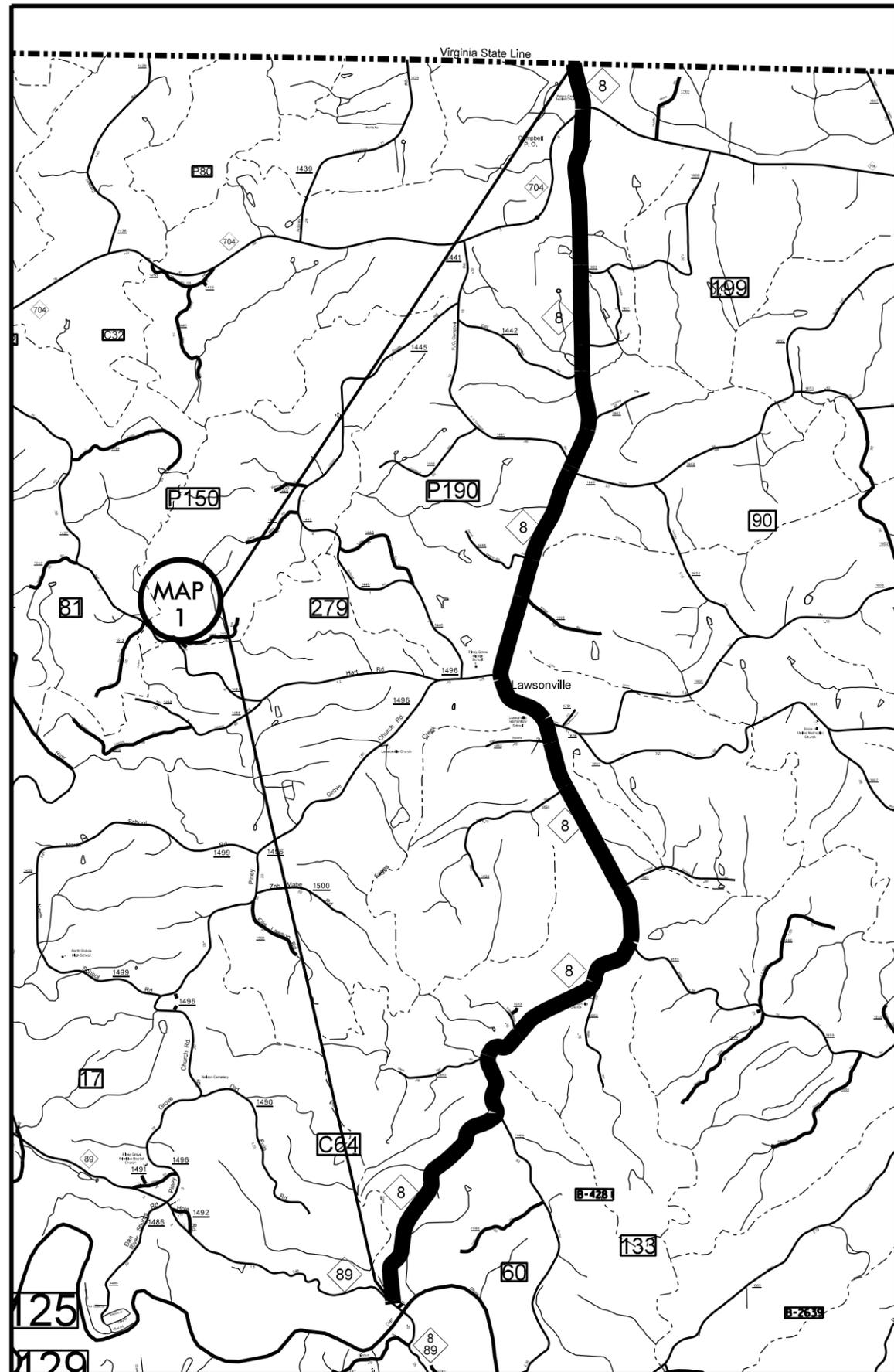


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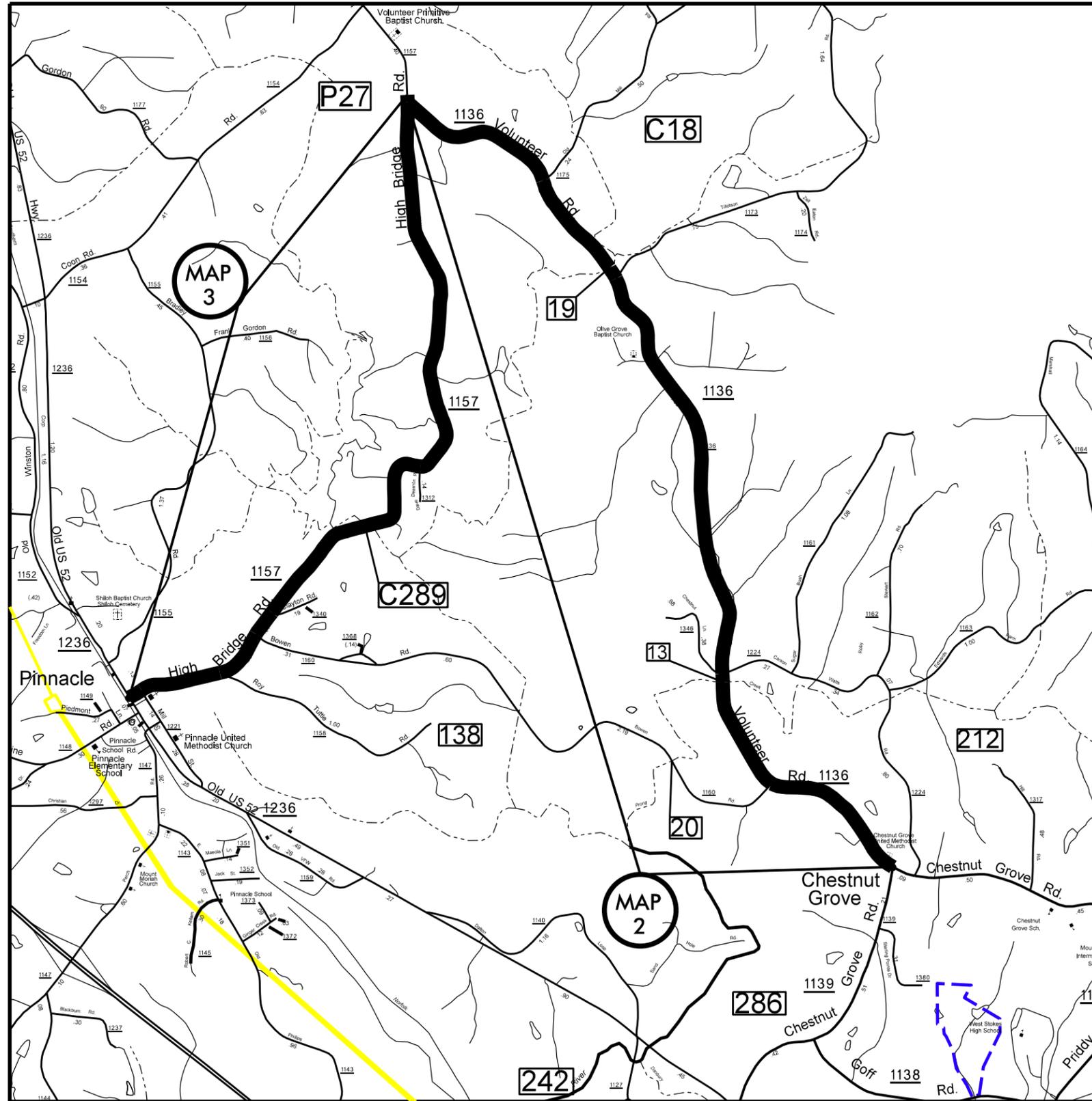
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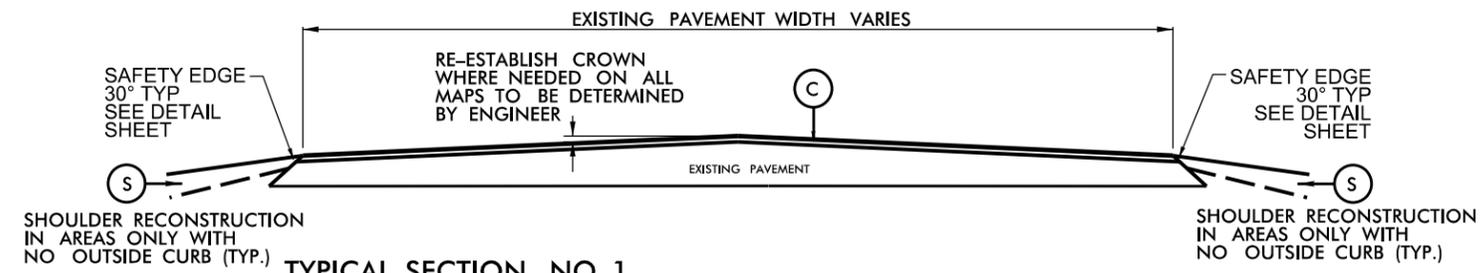
MAP 1  
NC 8  
Mill Butt joints at plant mix  
intersections.  
All patching to be done by  
NCDOT Forces.

**STOKES COUNTY**  
NORTH CAROLINA

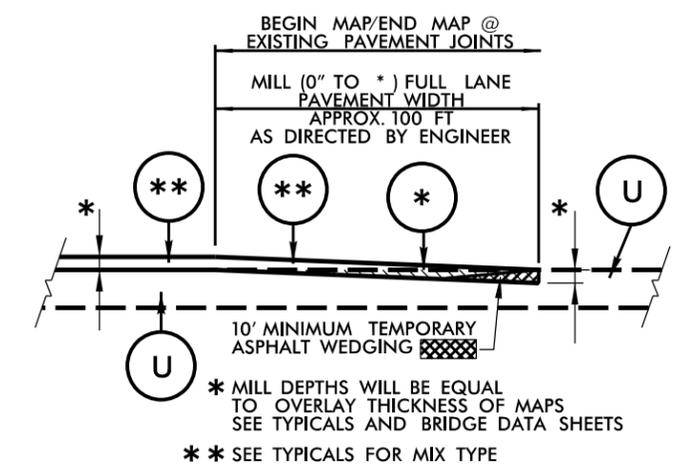


**MAP 2**  
 Volunteer Road SR 1136  
 Butt Mill at Plant Mix Intersections.  
 Mill and Pave across new bridge.  
 All patching to be done by  
 NCDOT Forces.

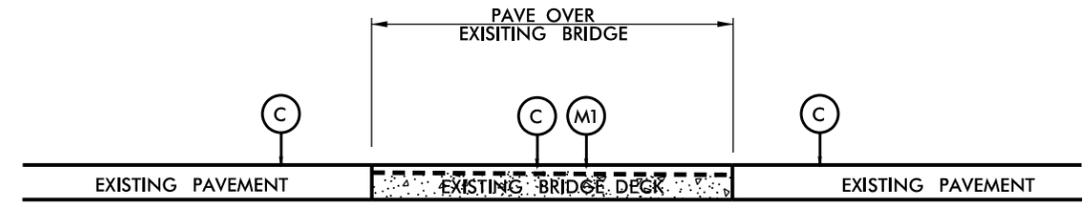
**MAP 3**  
 High Bridge Road SR 1157  
 Butt Mill at Plant Mix Intersections  
 only.  
 Pave through Volunteer Rd. intersection  
 creating new pavement joint.  
 All patching to be done by  
 NCDOT Forces.



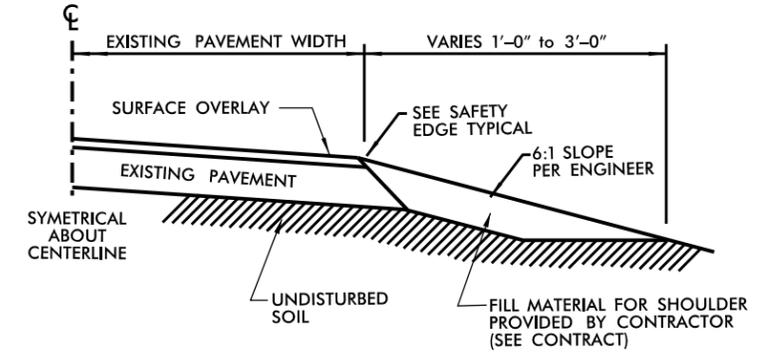
**TYPICAL SECTION NO. 1**  
**MAP NO.1 NC 8**  
**MAP NO.2 SR 1136 VOLUNTEER RD.**  
**MAP NO.3 SR 1157 HIGH BRIDGE RD.**



**INCIDENTAL TIE-IN MILLING DETAIL**



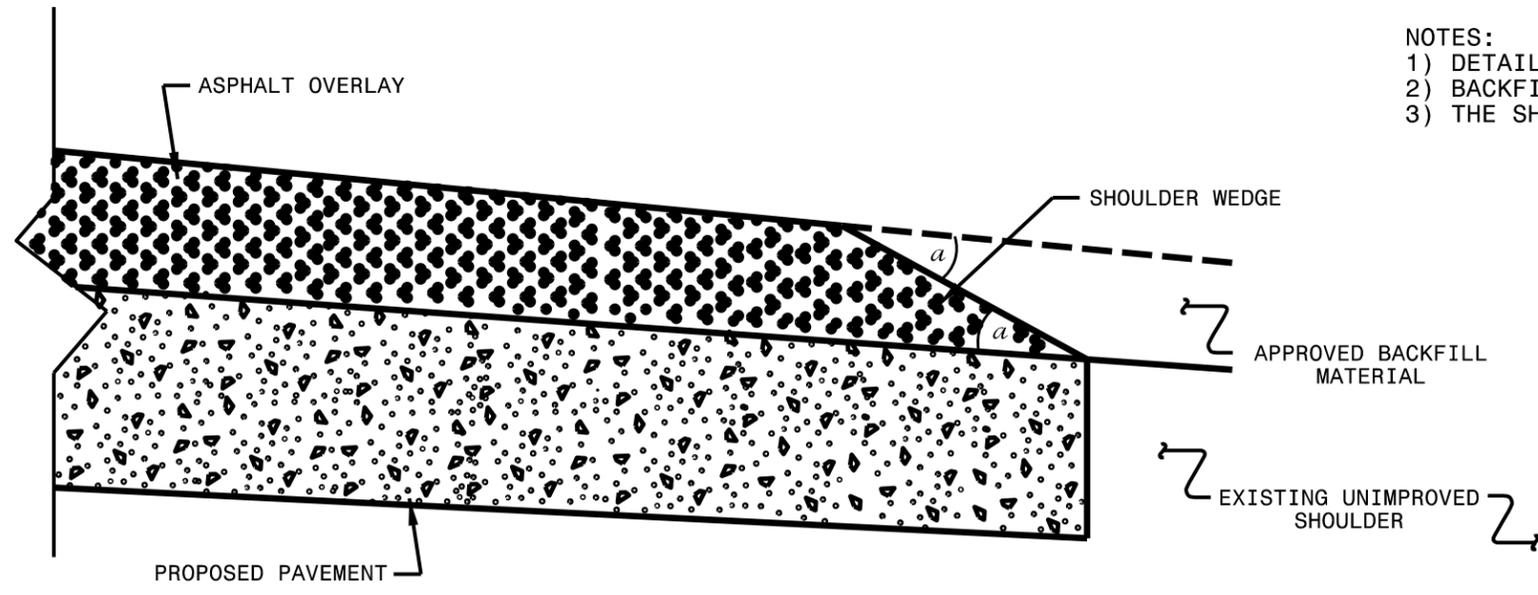
**PAVE OVER EXISTING BRIDGE DECK**  
**Volunteer Rd SR 1136**  
 (SEE BRIDGE DATA SHEET)



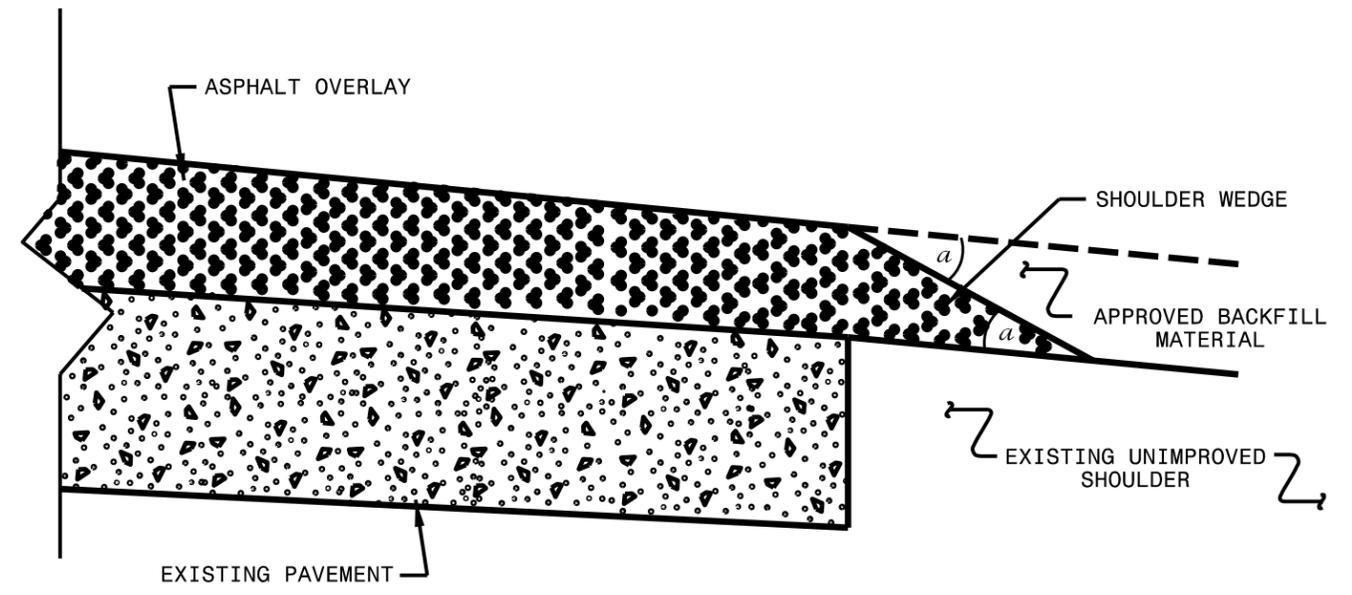
**SHOULDER RECONSTRUCTION**

PAVEMENT SCHEDULE	
C	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
M	INCIDENTAL MILLING
M1	MILL ASPHALT PAVEMENT, 1½" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT

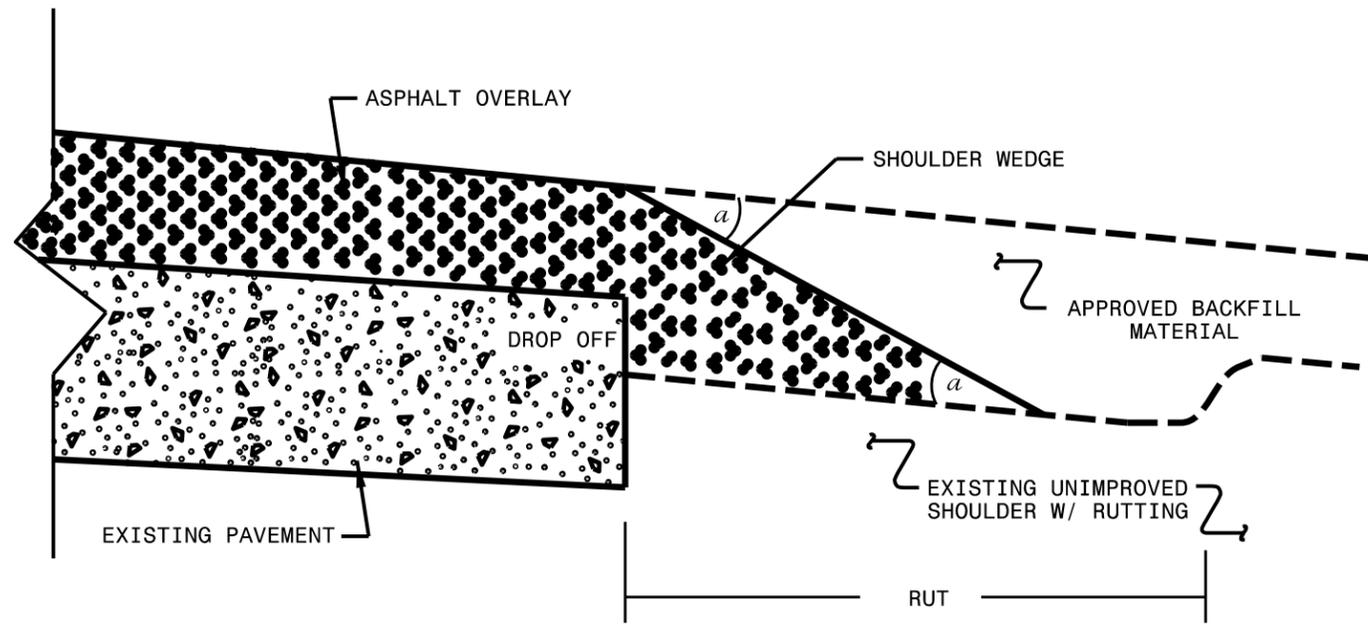
- NOTES:  
 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.  
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.  
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Projects w/ NO Widening)



**SHOULDER WEDGE DETAIL**  
 (Resurfacing Adjacent to  
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS  
 AND DEVELOPMENT UNIT  
 Office 919-707-6950 FAX 919-250-4119

**SHOULDER WEDGE  
 DETAILS**

ORIGINAL BY: T.SPELL DATE: 7-19-11  
 MODIFIED BY: DATE: 10/16/12  
 CHECKED BY: DATE:  
 FILE SPEC: s:\usr\details\stand\shoulderwedgedetail.dgn

\*\*\*\*\*  
 CUSTOMER'S USE ONLY  
 \*\*\*\*\*



PROJECT NO.	SHEET NO.	TOTAL NO.
9CR.10851.160, 9CR.20851.160	6	

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	BORROW EXCAVATION CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	MILLING ASPHALT PAVEMENT, 1 1/2" DEPTH SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	ASPHALT BINDER FOR PLANT MIX TONS	TEMPORARY SILT FENCE LF	WATTLE LF
9CR.10851.160	Stokes	1	NC 8	FROM NC 89 TO VIRGINIA STATE LINE	1	2	2WU	NO	NO	8.719	20	1,046	765	17.44		2,178	10,118	607	3,487	349
<b>TOTAL FOR MAP NO. 1</b>										<b>8.719</b>		<b>1,046</b>	<b>765</b>	<b>17.44</b>		<b>2,178</b>	<b>10,118</b>	<b>607</b>	<b>3,487</b>	<b>349</b>
<b>TOTAL FOR PROJ NO. 9CR.10851.160</b>										<b>8.719</b>		<b>1,046</b>	<b>765</b>	<b>17.44</b>		<b>2,178</b>	<b>10,118</b>	<b>607</b>	<b>3,487</b>	<b>349</b>
9CR.20851.160	Stokes	2	SR 1136 VOLUNTEER RD.	FROM HIGH BRIDGE RD. (SR 1157) TO CHESTNUT GROVE RD. (SR 1136)	1	2	2WU	NO	NO	3.628	22	435	165	7.26	288	2,210	4,351	261	1,451	145
<b>TOTAL FOR MAP NO. 2</b>										<b>3.628</b>		<b>435</b>	<b>165</b>	<b>7.26</b>	<b>288</b>	<b>2,210</b>	<b>4,351</b>	<b>261</b>	<b>1,451</b>	<b>145</b>
9CR.20851.160	Stokes	3	SR 1157 HIGH BRIDGE RD.	FROM OLD US 52 RD. (SR 1236) TO NORTH EAST SIDE OF VOLUNTEER RD. (SR 1136)	1	2	2WU	NO	NO	2.92	20	350	231	5.84		659	3,344	201	1,168	117
<b>TOTAL FOR MAP NO. 3</b>										<b>2.92</b>		<b>350</b>	<b>231</b>	<b>5.84</b>		<b>659</b>	<b>3,344</b>	<b>201</b>	<b>1,168</b>	<b>117</b>
<b>TOTAL FOR PROJ NO. 9CR.20851.160</b>										<b>6.548</b>		<b>785</b>	<b>396</b>	<b>13.10</b>	<b>288</b>	<b>2,869</b>	<b>7,695</b>	<b>462</b>	<b>2,619</b>	<b>262</b>
<b>GRAND TOTAL</b>										<b>15.267</b>		<b>1,831</b>	<b>1,161</b>	<b>30.54</b>	<b>288</b>	<b>5,047</b>	<b>17,813</b>	<b>1,069</b>	<b>6,106</b>	<b>611</b>

**NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.**

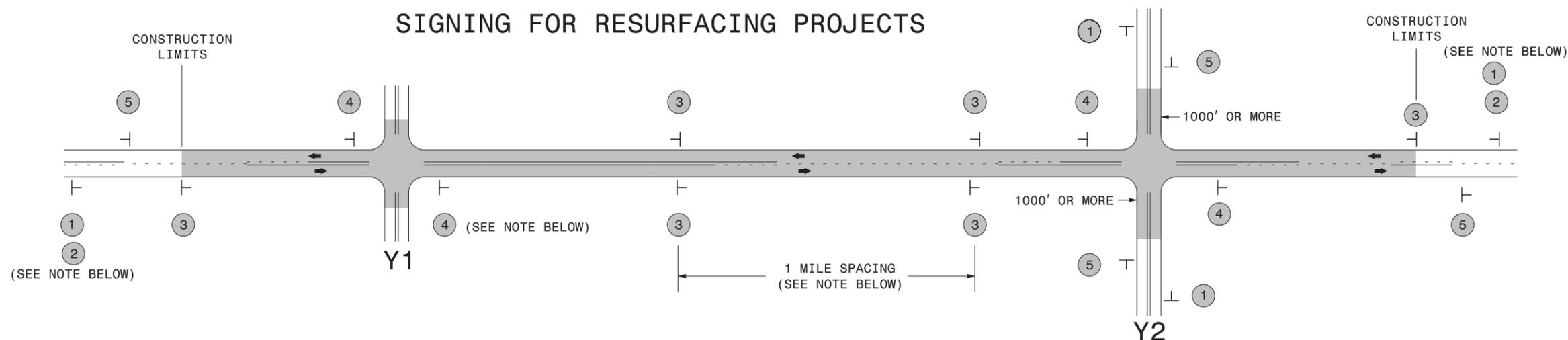
PROJECT NO.	SHEET NO.	TOTAL NO.
9CR.10851.160, 9CR.20851.160	7	

### THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4685000000-E	4686000000-E			4710000000-E	4721000000-E	4835000000-E	4840000000-N	4905000000-N
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	TEMPORARY TRAFFIC CONTROL  LS	4" X 90 M WHITE THERMO  LF	4" X 120 M WHITE THERMO  LF	4" X 120 M YELLOW THERMO  LF	24" X 120 M WHITE THERMO  LF	THERMO MSG SCHOOL 120 M  EA	24" WHITE PAINT  LF	PAINT MSG SCHOOL  EA	SNOW PLOWABLE MARKERS  EA	
9CR.10851.160	Stokes	1	NC 8	FROM NC 89 TO VIRGINIA STATE LINE	1	2	2WU	8.719	20	1,710	1	93,811	272	92,067	100	12	100	12	575	
<b>TOTAL FOR MAP NO. 1</b>							<b>8.719</b>			<b>1,710</b>	<b>1</b>	<b>93,811</b>	<b>272</b>	<b>92,067</b>	<b>100</b>	<b>12</b>	<b>100</b>	<b>12</b>	<b>575</b>	
<b>TOTAL FOR PROJ NO. 9CR.10851.160</b>							<b>8.719</b>			<b>1,710</b>	<b>1</b>	<b>93,811</b>	<b>272</b>	<b>92,067</b>	<b>100</b>	<b>12</b>	<b>100</b>	<b>12</b>	<b>575</b>	
													<b>92,339</b>							
9CR.20851.160	Stokes	2	SR 1136 VOLUNTEER RD.	FROM HIGH BRIDGE RD. (SR 1157) TO CHESTNUT GROVE RD. (SR 1136)	1	2	2WU	3.628	22			39,032	86	38,306						
<b>TOTAL FOR MAP NO. 2</b>							<b>3.628</b>					<b>39,032</b>	<b>86</b>	<b>38,306</b>						
9CR.20851.160	Stokes	3	SR 1157 HIGH BRIDGE RD.	FROM OLD US 52 RD. (SR 1236) TO NORTH EAST SIDE OF VOLUNTEER RD. (SR 1136)	1	2	2WU	2.92	20			31,419	68	30,835						
<b>TOTAL FOR MAP NO. 3</b>							<b>2.92</b>					<b>31,419</b>	<b>68</b>	<b>30,835</b>						
<b>TOTAL FOR PROJ NO. 9CR.20851.160</b>							<b>6.548</b>					<b>70,451</b>	<b>154</b>	<b>69,141</b>						
													<b>69,295</b>							
<b>GRAND TOTAL</b>							<b>15.267</b>			<b>1,710</b>	<b>1</b>	<b>164,262</b>	<b>426</b>	<b>161,208</b>	<b>100</b>	<b>12</b>	<b>100</b>	<b>12</b>	<b>575</b>	
													<b>161,634</b>							

NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.

## SIGNING FOR RESURFACING PROJECTS



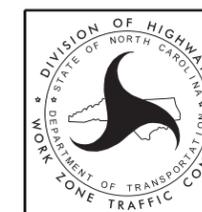
LEGEND	
	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

### MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

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

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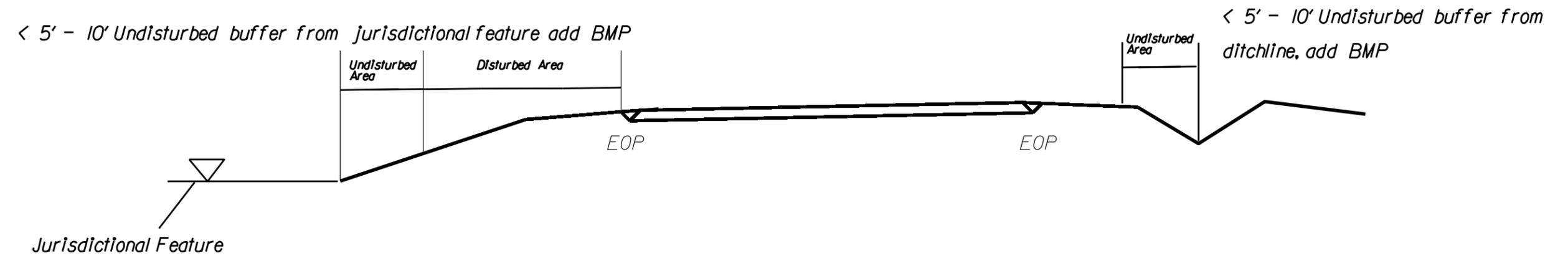
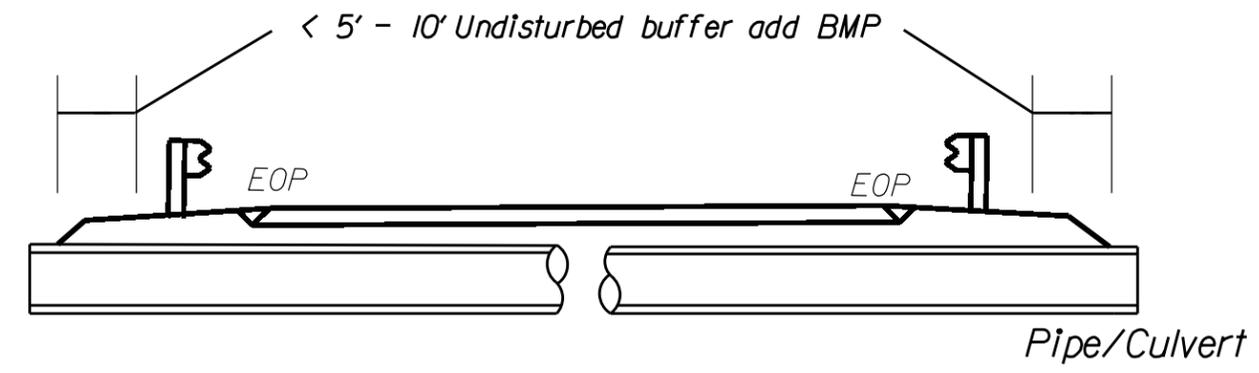


**RESURFACING  
ADVANCE WARNING SIGNS  
FOR  
RURAL AND SUBURBAN  
2 LANE ROADWAYS**

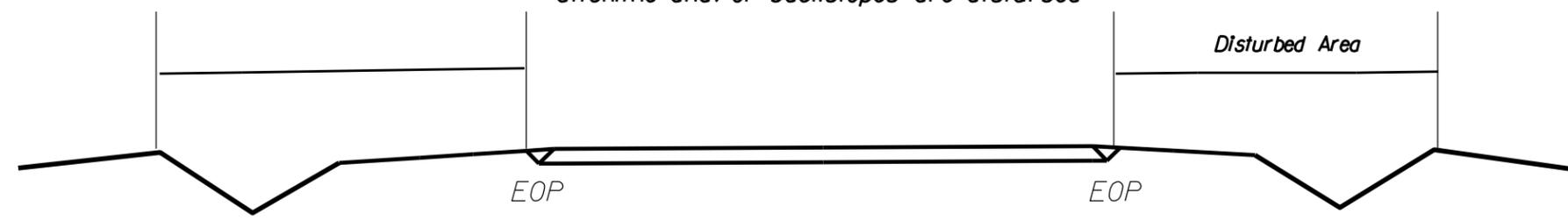
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

# EROSION CONTROL DETAIL

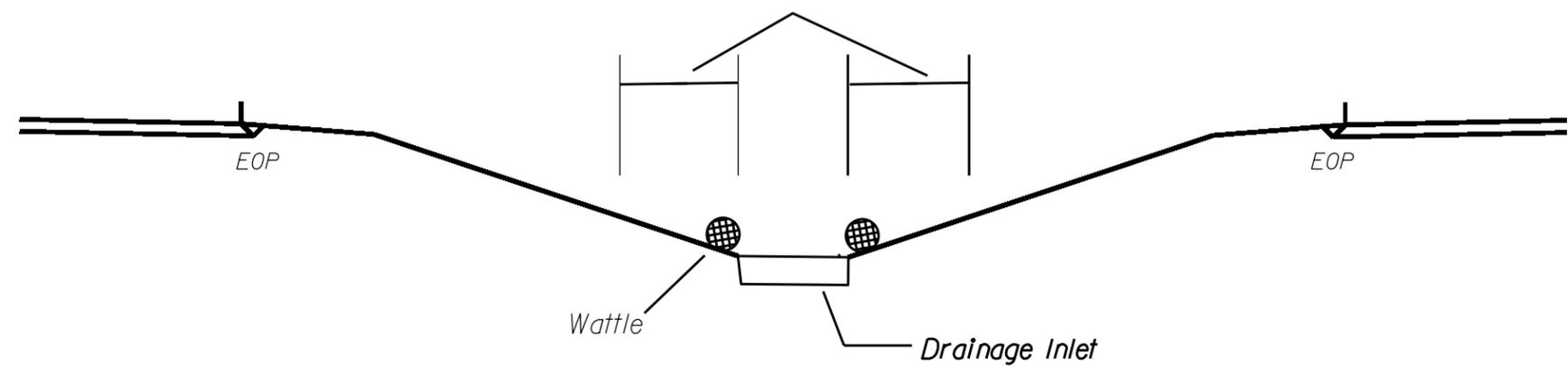
BMP Options: Wattle or Silt Fence



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

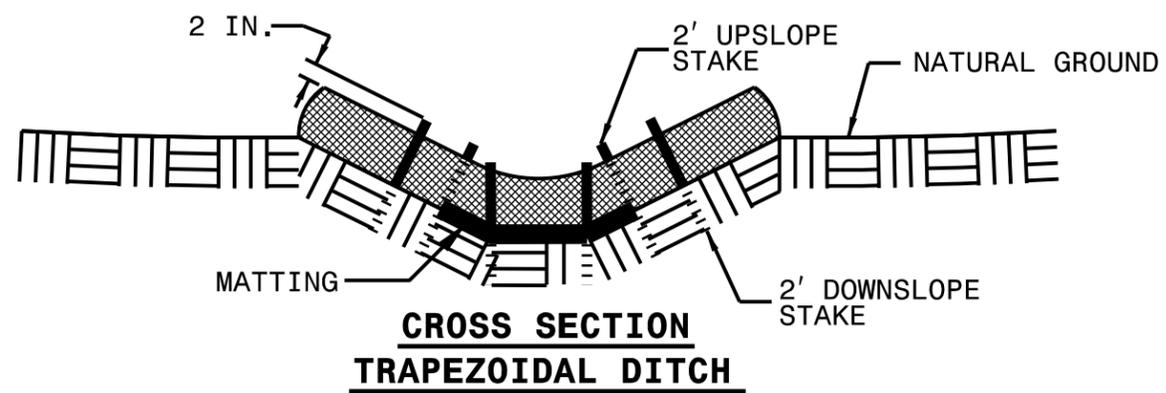
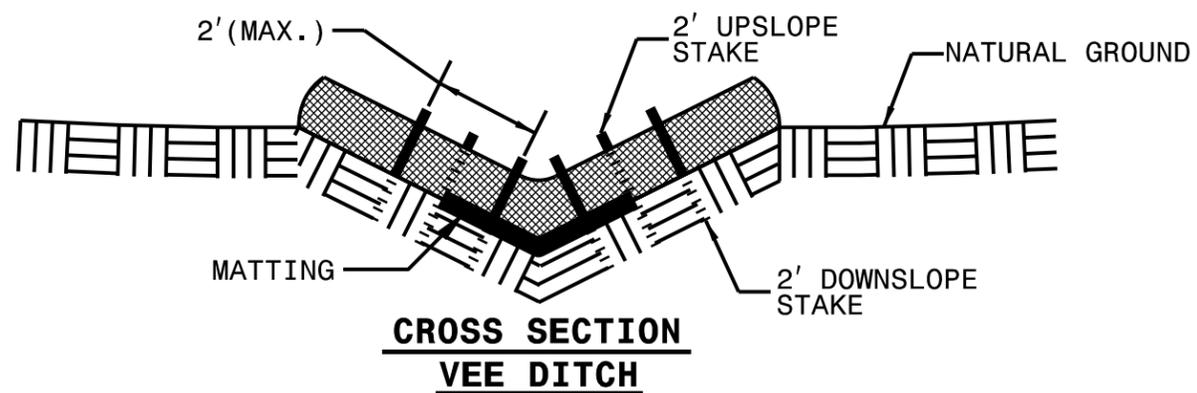
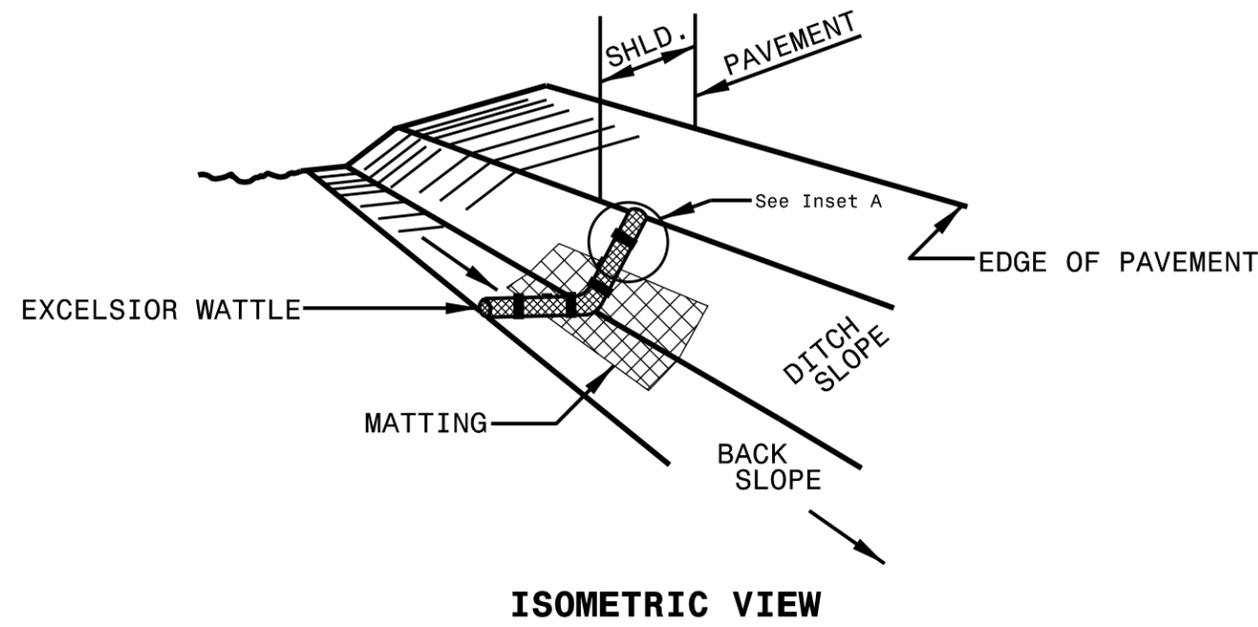


< 5' - 10' Undisturbed buffer from inlet, add wattle



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.

