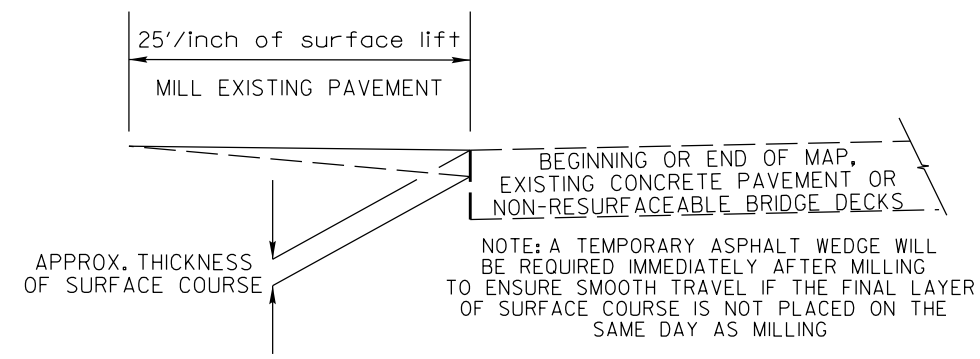


**2013 DURHAM COUNTY
 PRIMARY RESURFACING
 NC 751 FROM SR 1307, ERWIN ROAD
 TO ORANGE COUNTY LINE**

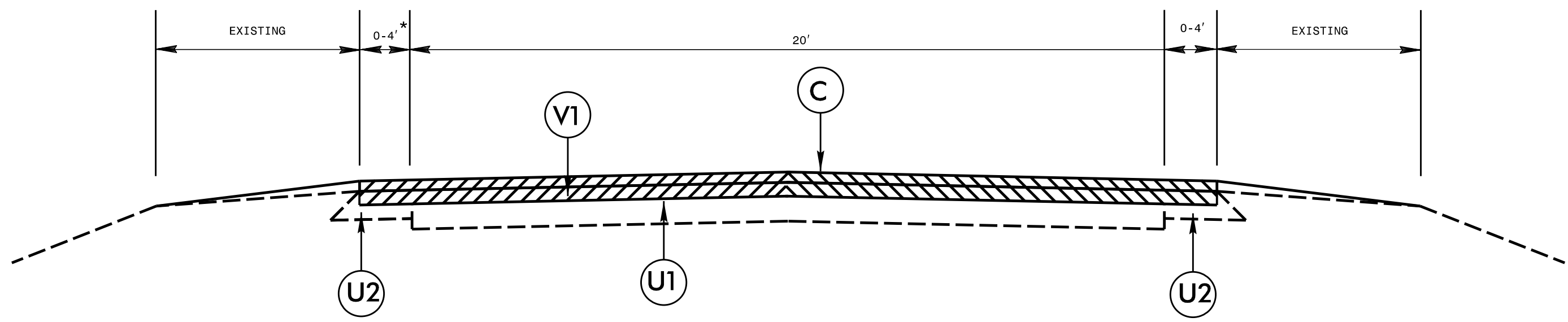
PAVEMENT SCHEDULE

C	3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF 2 LIFTS
U1	EXISTING ASPHALT PAVEMENT OVER EXISTING CONCRETE PAVEMENT
U2	EXISTING FULL DEPTH ASPHALT PAVEMENT
V1	PROP. 1½" MILLING EXISTING ASPHALT PAVEMENT



NOTES

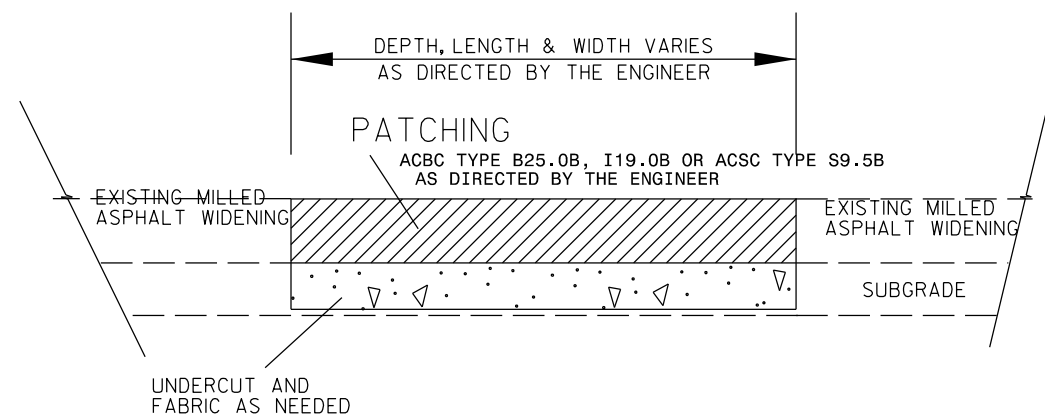
ALL UNPAVED S.R. ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT
 ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.
 EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
 BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.



* Please note that asphalt widening has been performed as 4' widening on the western side of the road, transitional widening on both sides or on the eastern side.

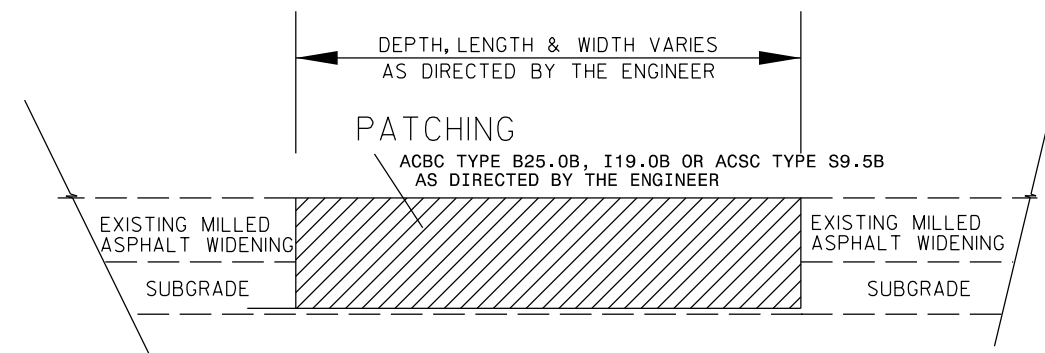
TYPICAL SECTION NO. 1

AFTER MILLING OPERATION, PERFORM PATCHING IN EXISTING ASPHALT SHOULDER, JOINT AND CRACK SEALING (LATERAL AND LONGITUDINAL) (HOTPOUR AND POLYMER) AND PERFORM FULL DEPTH REPAIRS IN CONCRETE PAVEMENT, AS DIRECTED BY THE ENGINEER

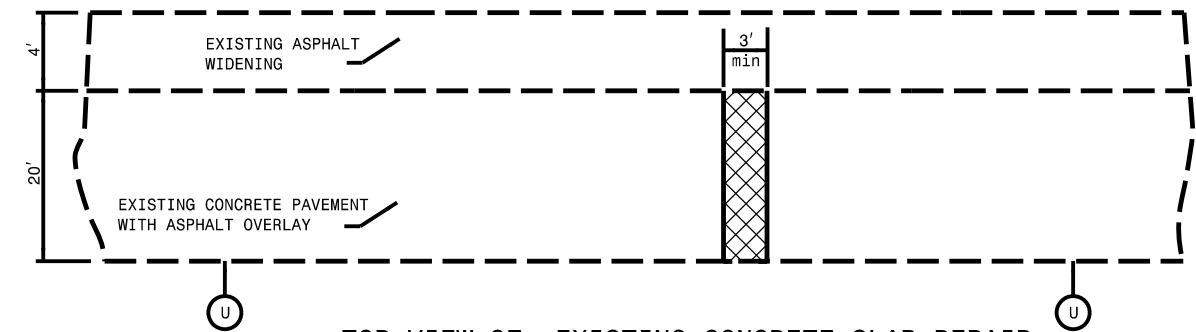


IF SUBGRADE MATERIAL IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE REMOVE UP TO 12" AND REPLACE WITH SOIL STABILIZATION FABRIC AND ABC. PLACE ABC IN LIFTS OF 6" OR LESS

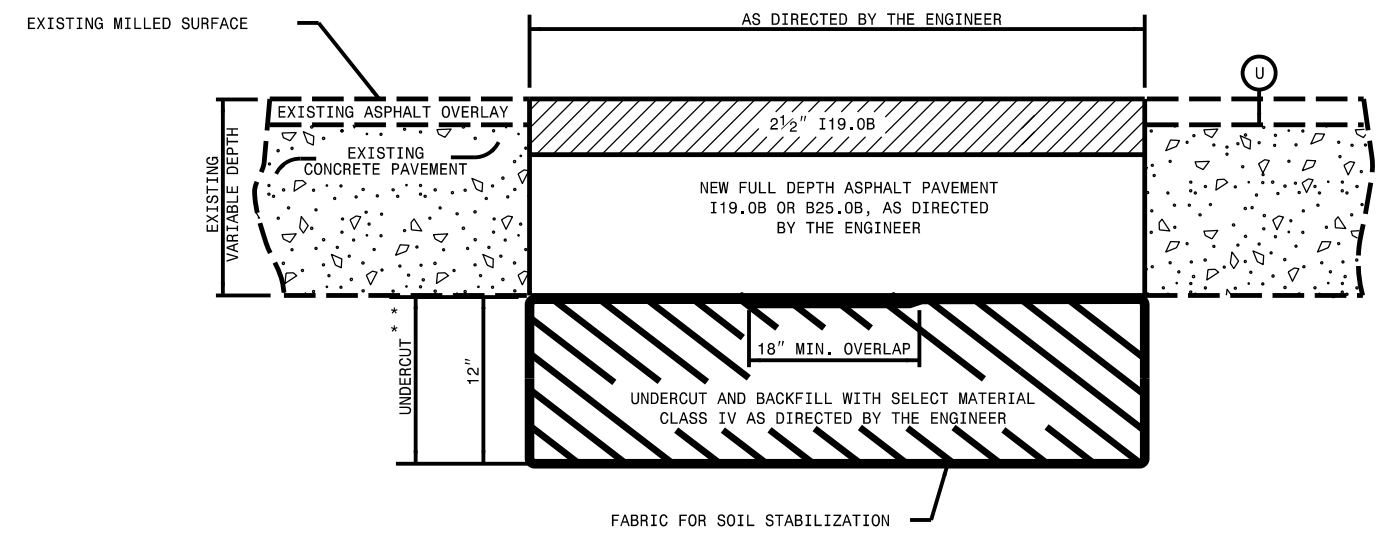
WIDENING REPAIR DETAIL 1



WIDENING REPAIR DETAIL 2
LOCATIONS AS DIRECTED BY THE ENGINEER
PATCHING TO BE PERFORMED AFTER MILLING OPERATION,
AS DIRECTED BY THE ENGINEER



TOP VIEW OF EXISTING CONCRETE SLAB REPAIR
TO BE PERFORMED AFTER MILLING OPERATION, AS DIRECTED BY THE ENGINEER



CROSS SECTION OF EXISTING CONCRETE SLAB REPAIR AFTER MILLING

- * DIMENSIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED
- ** UNDERCUT REQUIRED IN AREAS AS DIRECTED BY THE ENGINEER

DETAIL OF FULL DEPTH REPAIR
IN EXISTING CONCRETE PAVEMENT

PROJECT NO.	SHEET NO.	TOTAL NO.
5CR.10321.26		

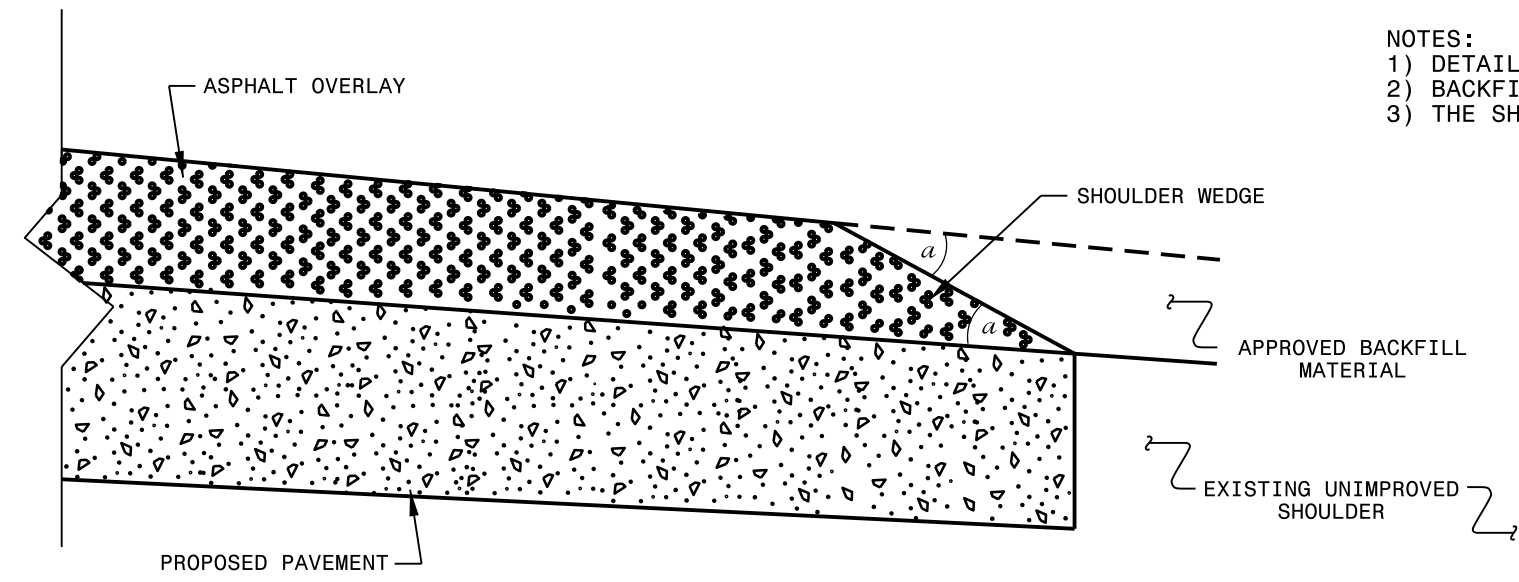
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	UNDERCUT EXCAVATION CY	BORROW CY	REMOVAL OF EXISTING CONCRETE PAVEMENT SLABS SY	GEOTEXTILE FOR SOIL STABILIZATION SY	SELECT MATERIAL, CLASS IV TON	SEALING EXIST. PVT. CRACKS, POLYMER PATCH LB	INCIDENTAL STONE BASE TONS	SHOULDER RECON-STRUCTION SMI	1½" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	INTER-MEDIATE COURSE, I19.0B TONS	SURFACE COURSE, S9.5B TONS	ASPHALT BINDER FOR PLANT MIX TON	SEALING EXISTING PAVEMENT CRACKS & JOINTS LB	PATCHING EXISTING PAVEMENT TONS	TEMPORARY SILT FENCE LF	WATTLE LF	SEED & MULCHING AC
5CR.10321.26	Durham	1	NC 751	FROM SR 1307 (ERWIN ROAD) TO THE ORANGE COUNTY LINE	1	YES	YES	2.2	24	71	330	213	213.00	142	22,600.00	250	4.40	31,376	50	80	30	5,592	340	4,850	330	100	30	3.19
TOTAL FOR MAP NO. 1								2.2		71	330	213	213.00	142	22,600.00	250	4.40	31,376	50	80	30	5,592	340	4,850	330	100	30	3.19
TOTAL FOR PROJ NO. 5CR.10321.26								2.2		71	330	213	213.00	142	22,600.00	250	4.40	31,376	50	80	30	5,592	340	4,850	330	100	30	3.19
GRAND TOTAL								2.2		71	330	213	213.00	142	22,600.00	250	4.40	31,376	50	80	30	5,592	340	4,850	330	100	30	3.19

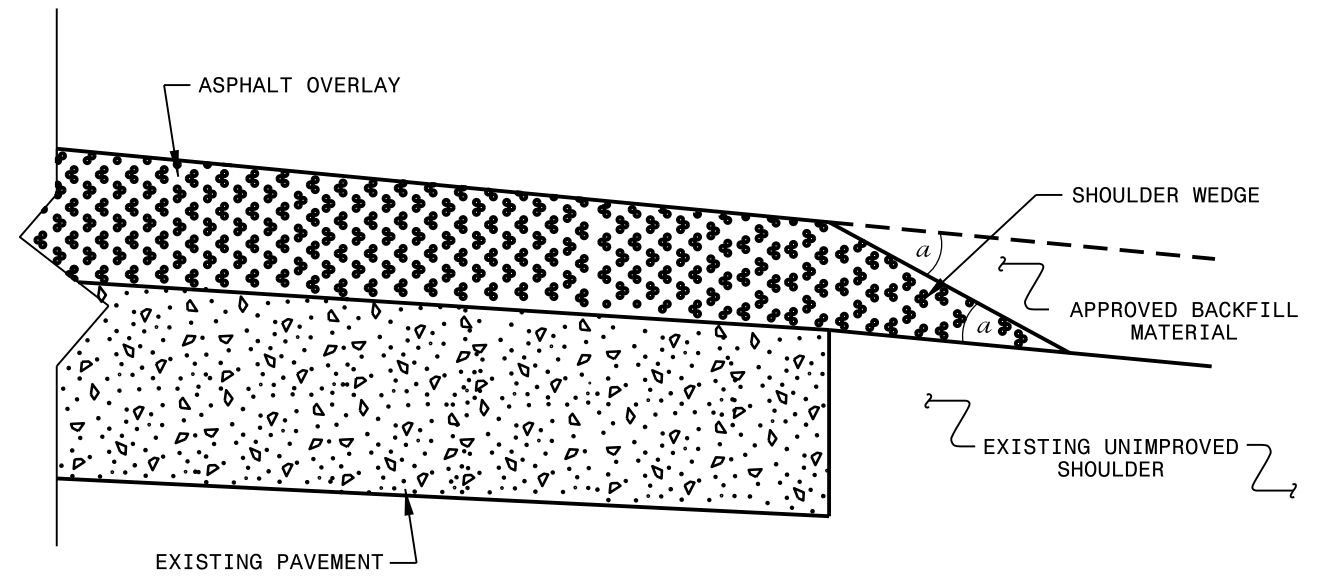
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4399000000-N	4685000000-E	4686000000-E		4695000000-E	4725000000-E		4810000000-E		4905000000-N
							TEMPORARY TRAFFIC CONTROL LS	4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" X 90 M YELLOW THERMO LF	THERMO RT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	SNOW PLOWABLE MARKERS EA	
5CR.10321.26	Durham	1	NC 751	FROM SR 1307 (ERWIN ROAD) TO THE ORANGE COUNTY LINE	2.2	24	1.00	23,672	23,232	100	50	1	46,464	46,464	145	
TOTAL FOR MAP NO. 1					2.2		1	23,672	23,232	100	50	1	46,464	46,464	145	
TOTAL FOR PROJ NO. 5CR.10321.26					2.2		1	23,672	23,232	100	50	1	46,464	46,464	145	
GRAND TOTAL					2.2		1	23,672	23,232	100	50	1	46,464	46,464	145	

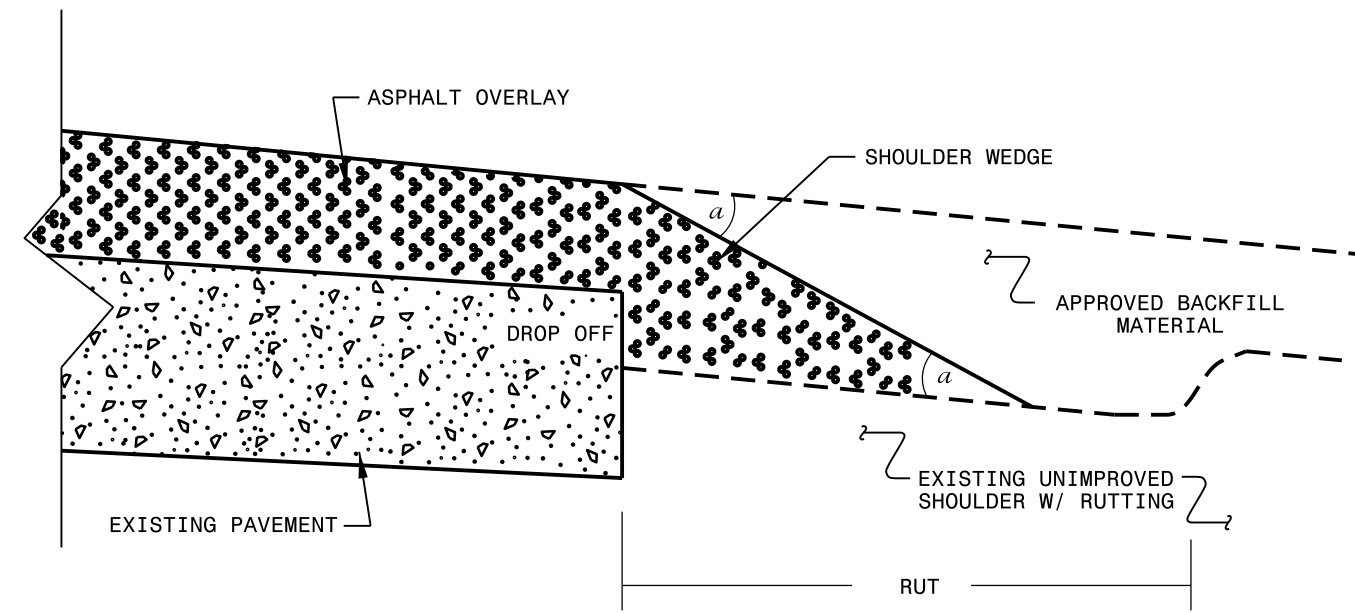
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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.: susr/details/stand/shoulderwedgedetail.dgn

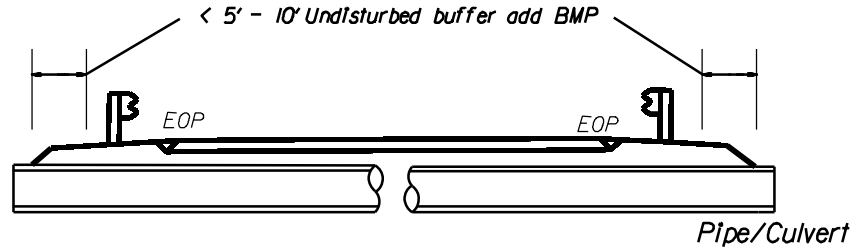
SYSTEMS DESIGN
 USER NAME

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

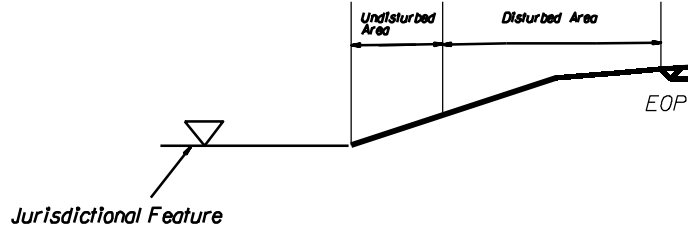
BMP Options: Wattle, Silt Fence, or Hardened Aggregate.

EROSION CONTROL DETAIL

PROJECT NO. 1-1111	DATE 10-22-2011
DESIGNER	CHECKER
PROJECT NO. 1-1111	DATE 10-22-2011
DESIGNER	CHECKER
PROJECT NO. 1-1111	DATE 10-22-2011
DESIGNER	CHECKER

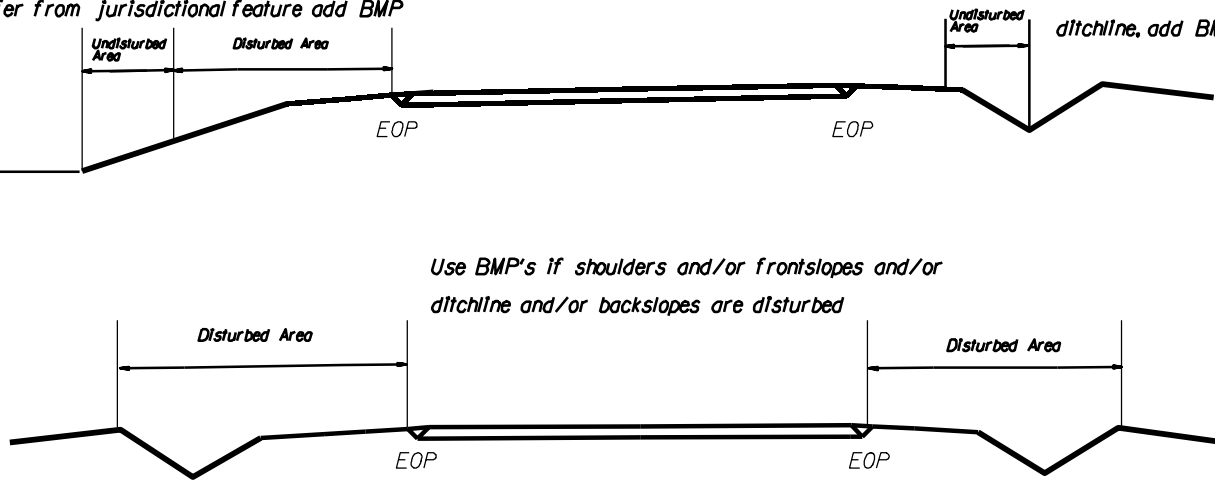


< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP

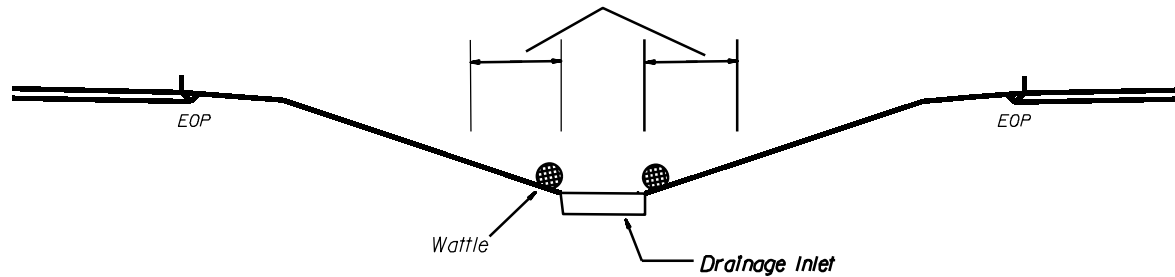


< 5' - 10' Undisturbed buffer from ditchline, add BMP

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

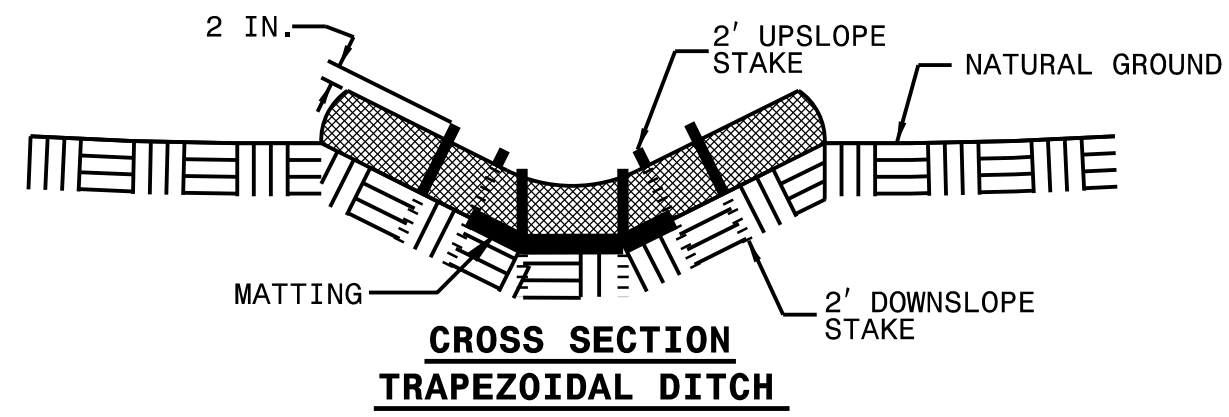
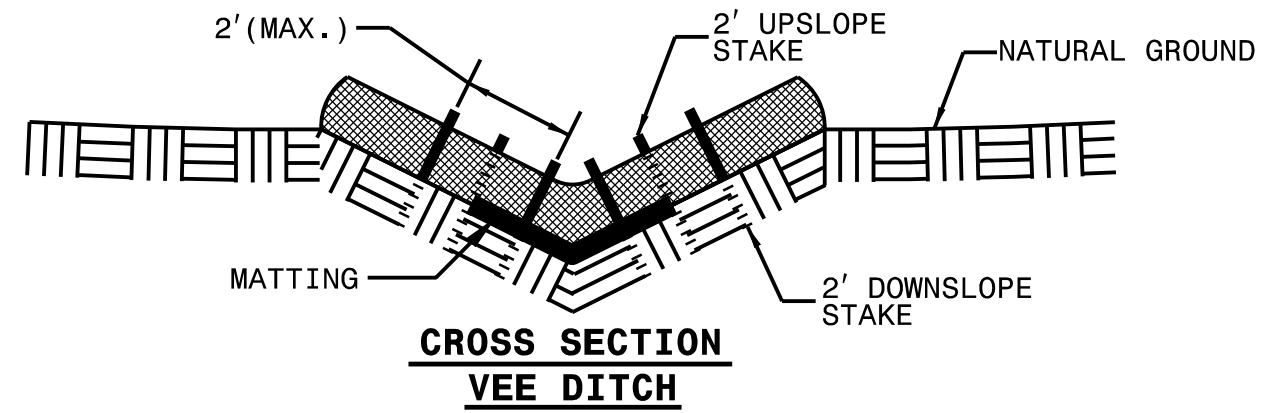
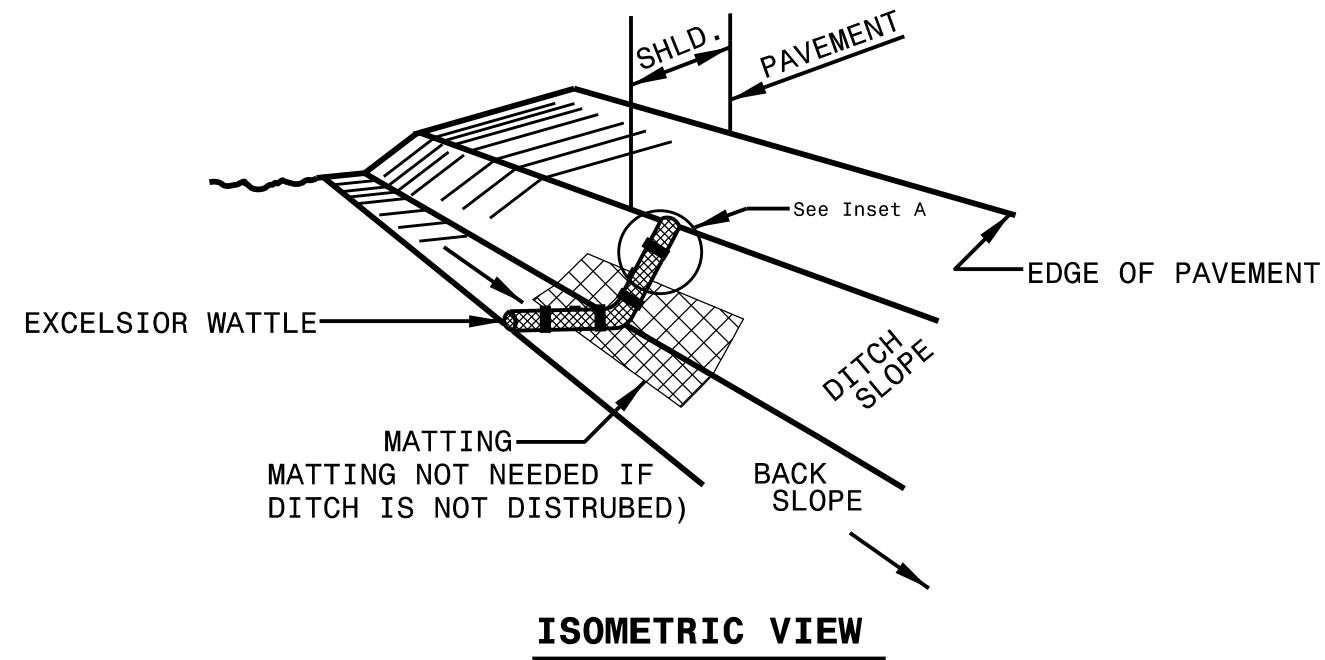


< 5' - 10' Undisturbed buffer from Inlet, add wattle



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.

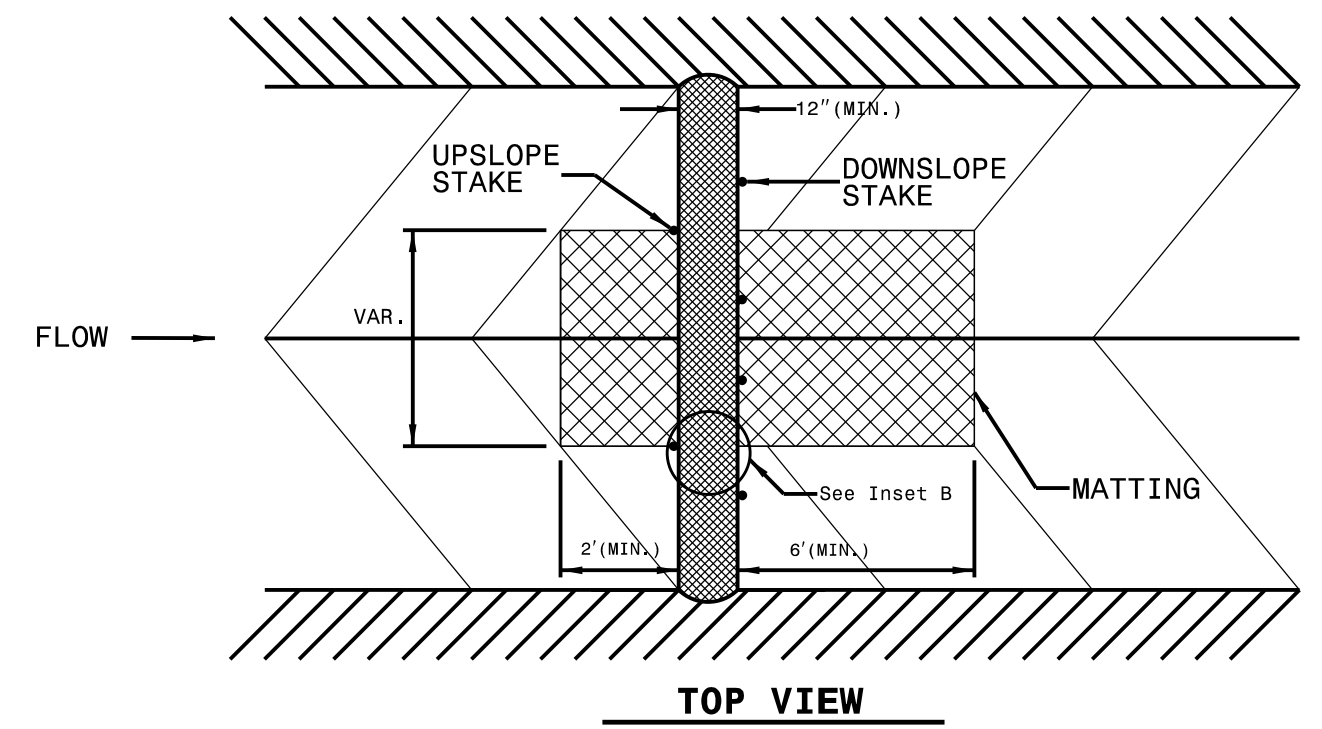
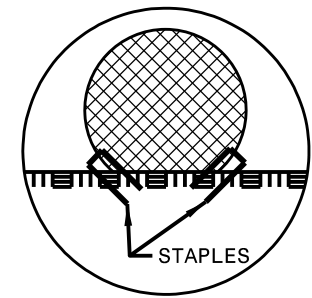
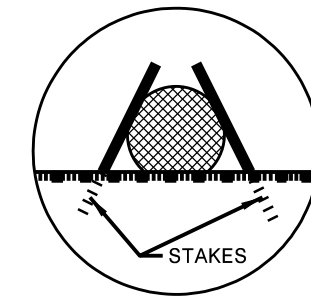
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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.

IF DITCH WILL BE DISTURBED, INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

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 (HOW) 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 HOW ZONES.