

TIP NO.: R-5504

CONTRACT NO.: C203136

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

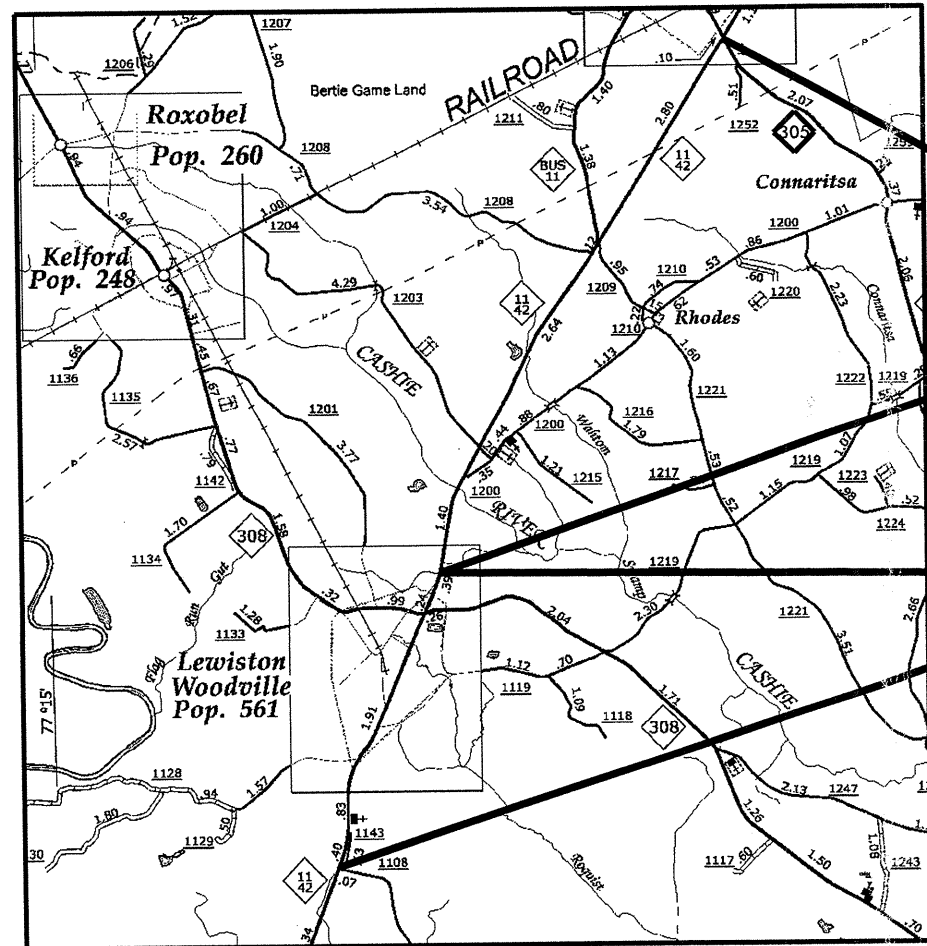
BERTIE COUNTY

LOCATION: Bertie County NC 11 - From NC 305 to SR 1108

TYPE OF WORK: Widening, Resurfacing, and Shoulder Reconstruction



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5504	1	
STATE PROJ. NO.	PLAN NO.	DESCRIPTION	
45456.1.1	STP-0011(24)	PE	
45456.3.1	STP-0011(24)	CONSTRUCTION	



MAP 1

MAP 2

NOT TO SCALE

PROJECT LENGTH

LENGTH ROADWAY PROJECT MAP 1 = 6.69 MILES
 LENGTH ROADWAY PROJECT MAP 2 = 3.91 MILES
 TOTAL LENGTH STATE PROJECT C203136 = 10.60 MILES

Prepared in the Office of:
DIVISION ONE, DISTRICT TWO OFFICE
 230 NC 42 WEST, AHOSKIE, NC 27910
2012 STANDARD SPECIFICATIONS

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
R-5504	2

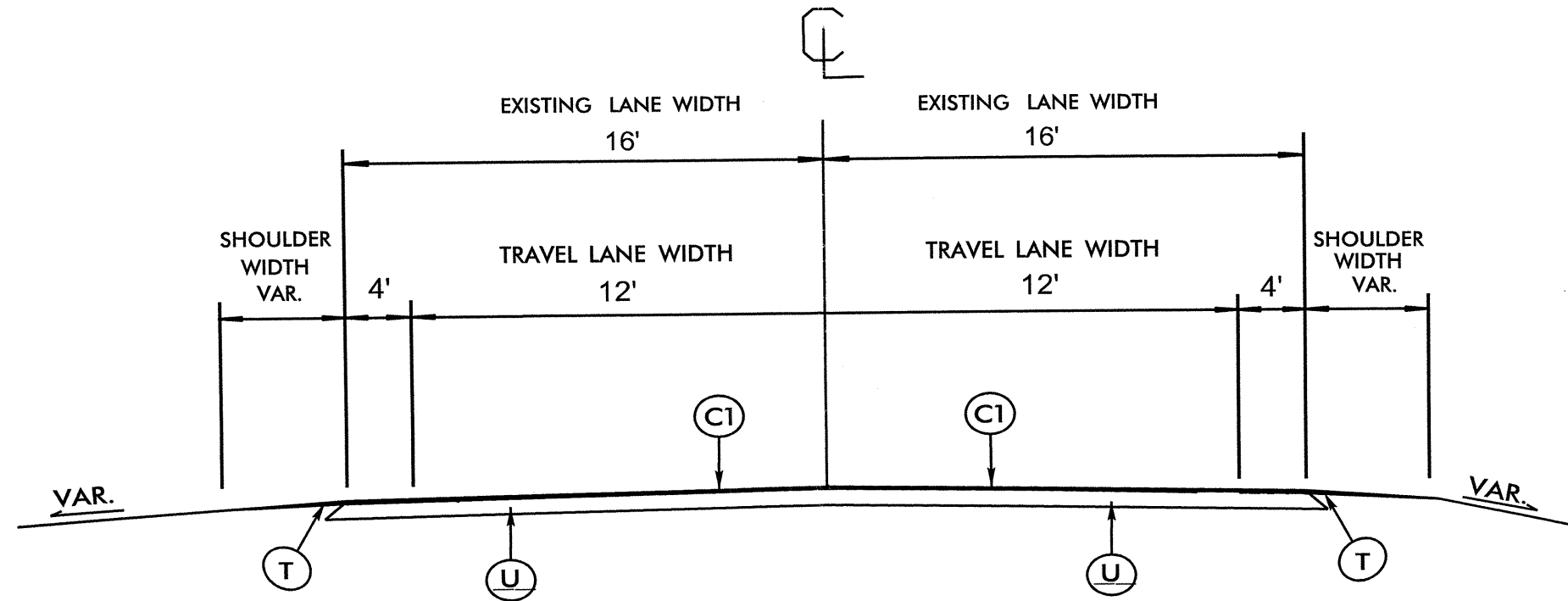
NOTES:

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

LEVELING COURSE TO BE APPLIED ACROSS ENTIRE ROADWAY WIDTH

(C1)	PROP. APPROX. 1.5" ACSC TYPE S9.5B AT AN AVERAGE RATE OF 168.0 LBS. PER SQ. YD.
(U)	EXISTING PAVEMENT
(T)	SHOULDER RECONSTRUCTION



TYPICAL SECTION #1

USE WITH MAP 1

PROJECT REFERENCE NO.	SHEET NO.
R-5504	3

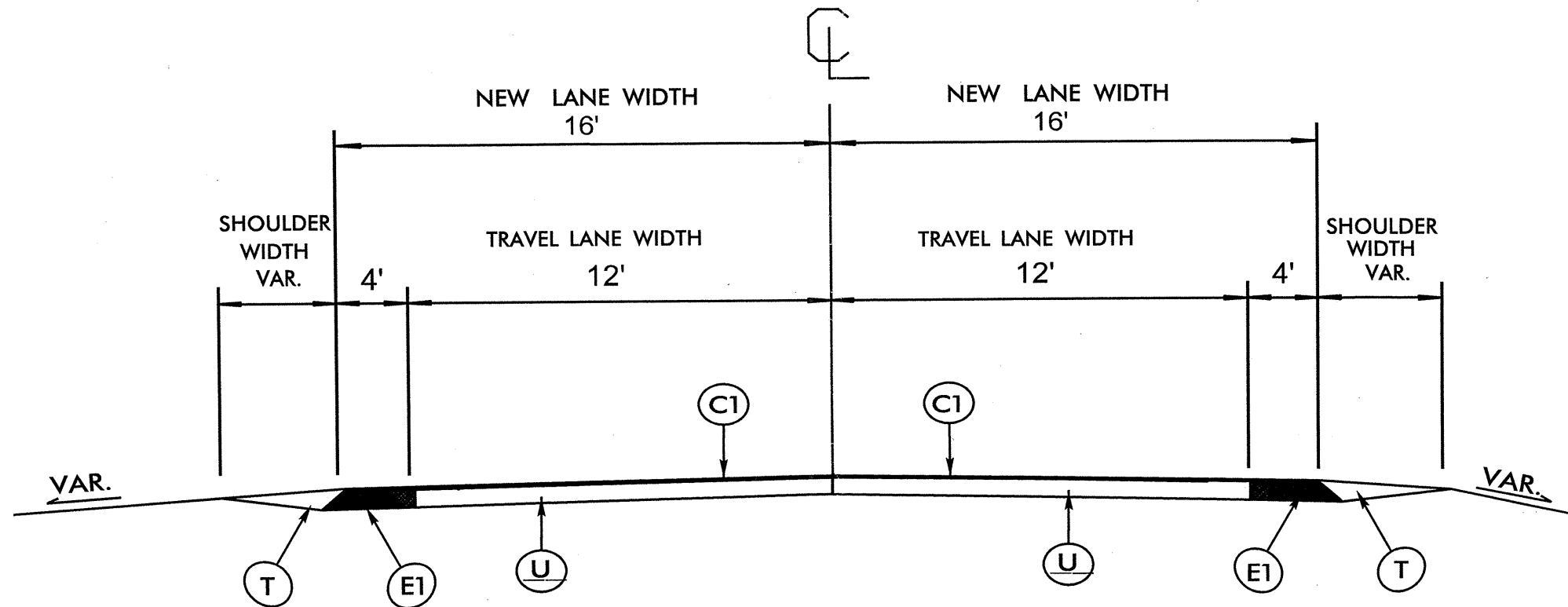
NOTES:

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

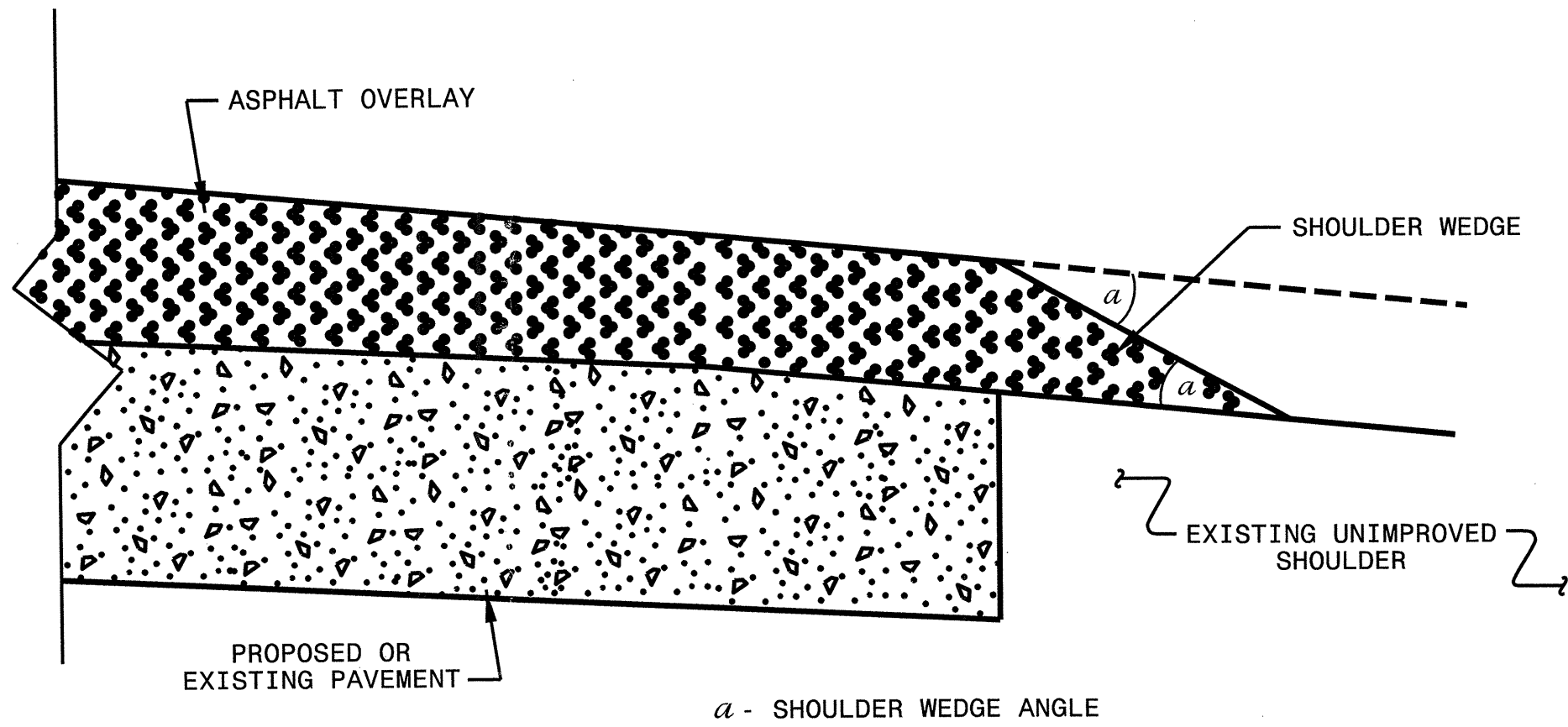
LEVELING COURSE TO BE APPLIED TO TRAVEL LANES ONLY

C1	PROP. APPROX. 1.5" ACSC TYPE S9.5B AT AN AVERAGE RATE OF 168.0 LBS. PER SQ. YD.
E1	PROP. APPROX. 6" ACBC TYPE B25.0B AT AN AVERAGE RATE OF 684.0 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
T	SHOULDER RECONSTRUCTION



TYPICAL SECTION #2

USE WITH MAP 2



SHOULDER WEDGE DETAIL

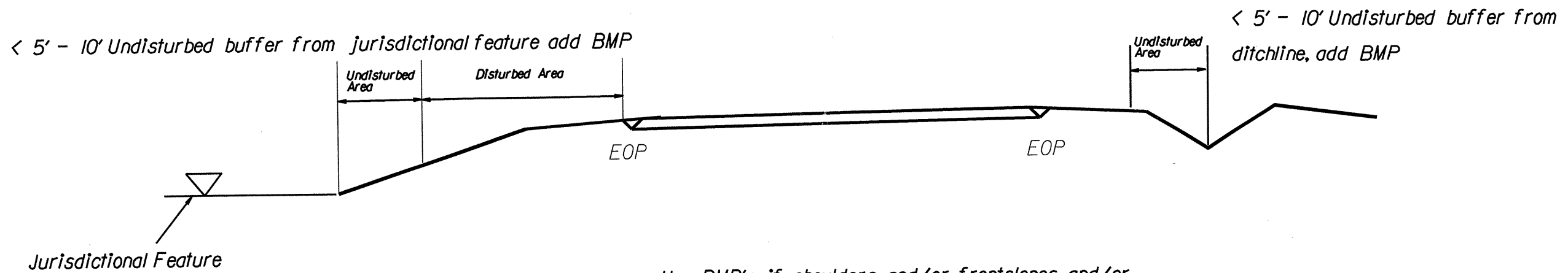
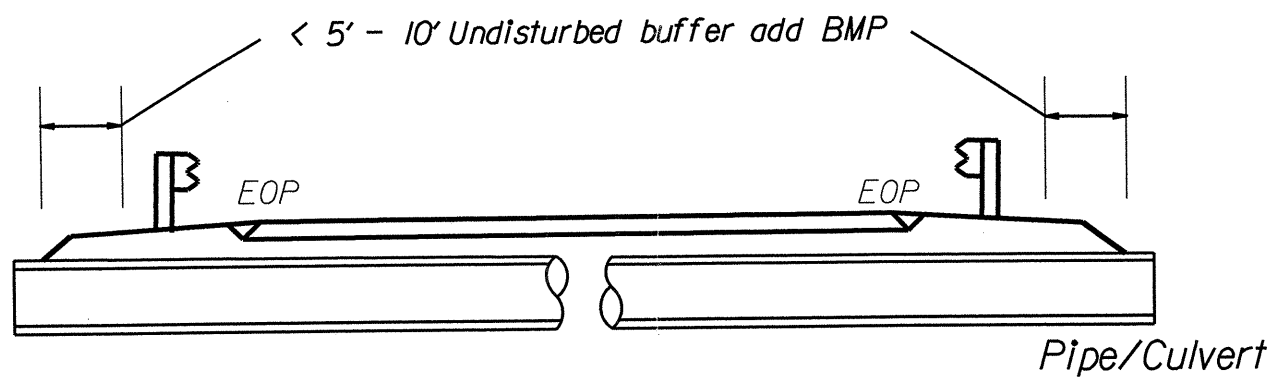
 C:\T\M\STANDARD\STAND\SHOULDERWEDGEDETAIL.DWG

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119			
SHOULDER WEDGE DETAIL			
ORIGINAL BY:	T. SPELL	DATE:	7-19-11
MODIFIED BY:		DATE:	
CHECKED BY:		DATE:	
FILE SPEC:	s:\usr\details\stand\shoulderwedge\detail.dwg		

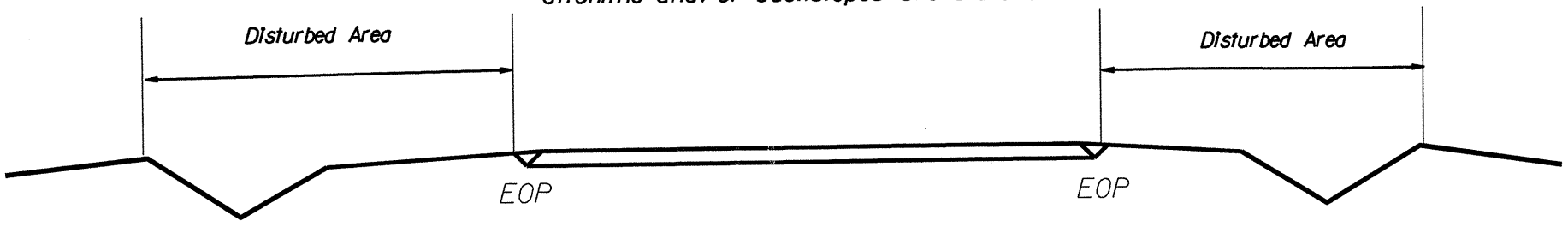
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle or Silt Fence

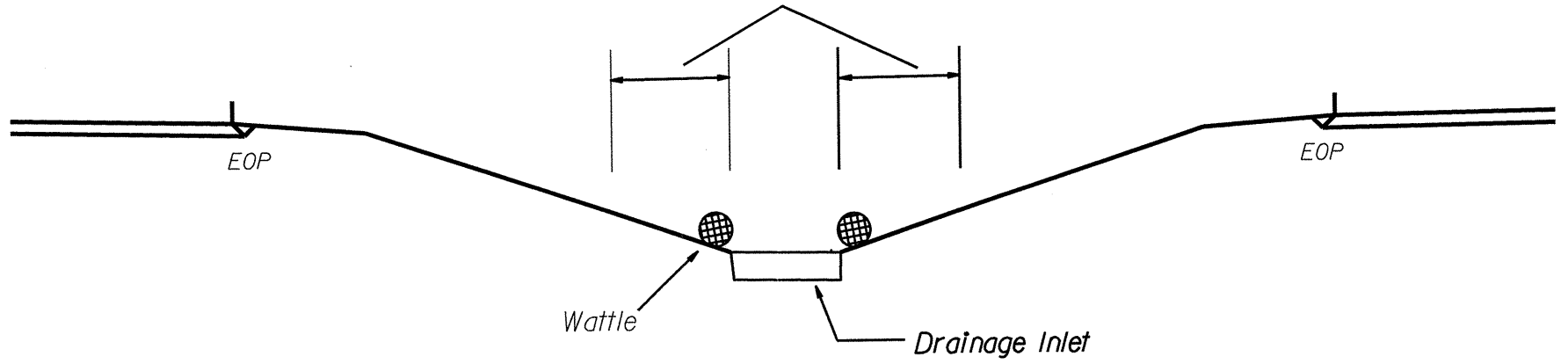
EROSION CONTROL DETAIL



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



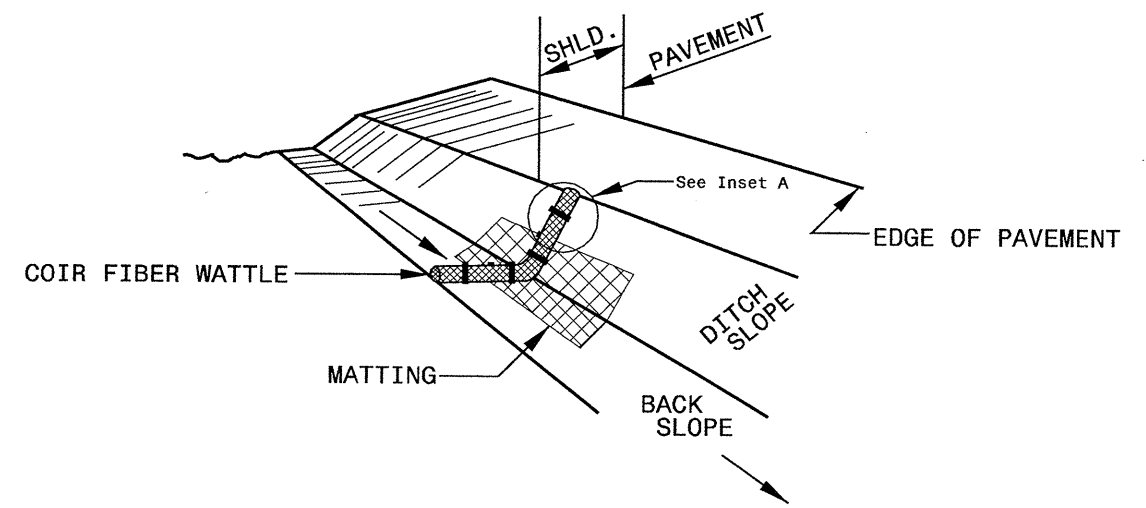
< 5' - 10' Undisturbed buffer from inlet, add wattle



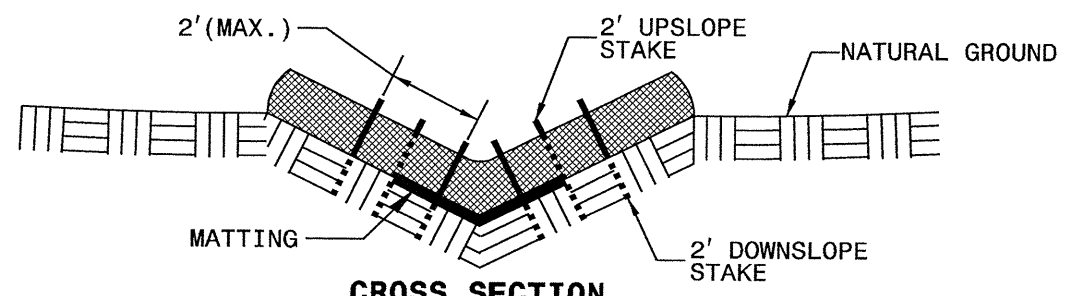
NOT TO SCALE

PROJECT REFERENCE NO. R-5504	SHEET NO. 6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

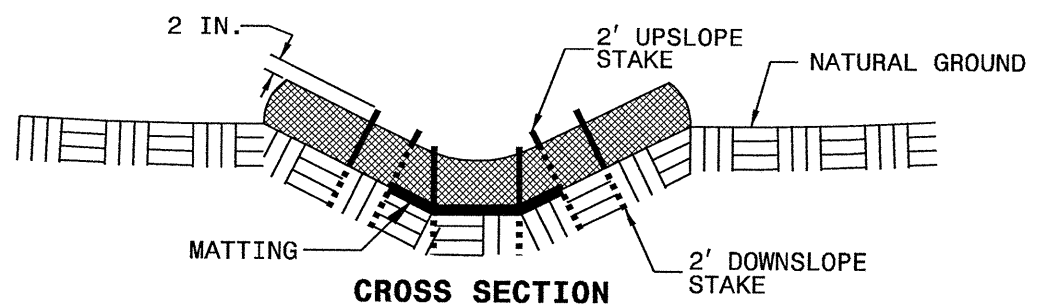
COIR FIBER WATTLE DETAIL



ISOMETRIC VIEW



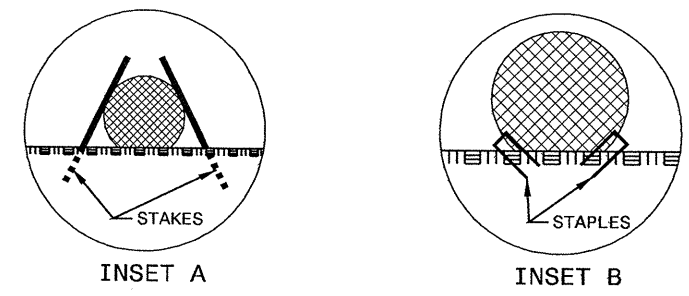
CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

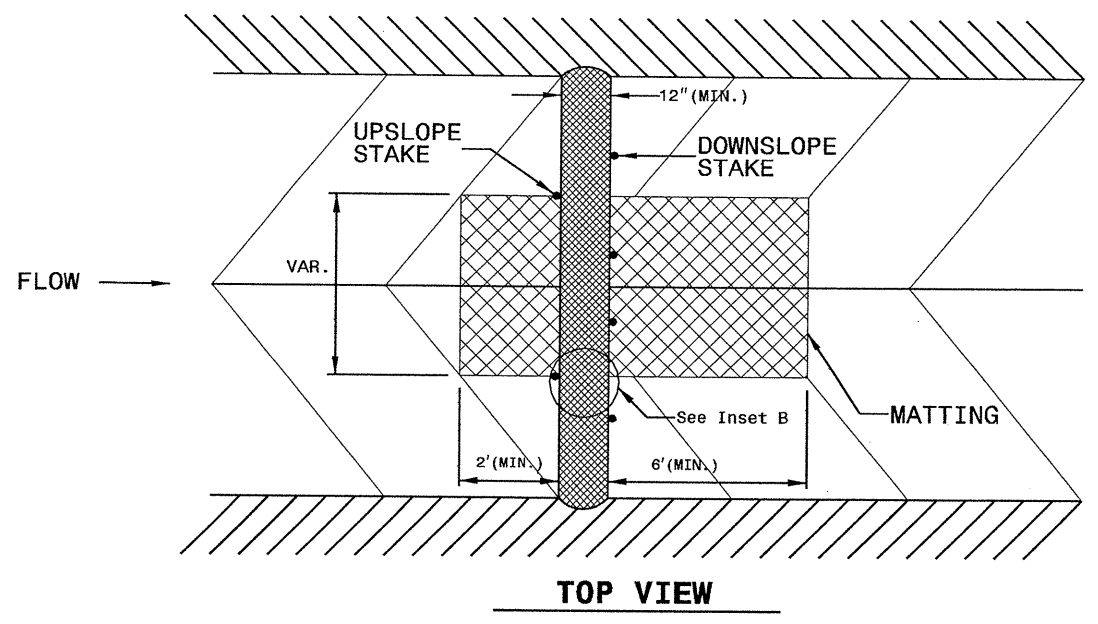
NOTES:

- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) 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.



INSET A

INSET B



TOP VIEW

PROJECT NO.	SHEET NO.	TOTAL NO.
R-5504 45456.3.1	7	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	NEW WIDTH	FINAL SURFACE TESTING REQUIRED	MOBILIZATION LS	BORROW CY	INCIDENTAL STONE BASE TON	SHOULDER RECONSTRUCTION SMI	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TON	SURFACE COURSE, S9.5B TON	LEVELING COURSE, S9.5B TON	ASPHALT BINDER FOR PLANT MIX TON	TEMPORARY SILT FENCE LF	COIR FIBER MAT SY	COIR FIBER WATTLE LF	SEED & MULCHING AC
R-5504	Bertie	1	NC 11	FROM NC 305 TO 0.8 Miles North of NC 308	1	6.69	32	-	NO	1	1,625	200	13.38	750		11,725	7,650	1,163	500	180	200	13.0
		2	NC 11	FROM 0.8 Miles North of NC 308 TO SR 1108	2	3.91	24	32	NO	*	1,150	210	7.82		6,350	7,000	4,600	975	400	150	160	9.6
GRAND TOTAL						10.60				1	2,775	410	21.20	750	6,350	18,725	12,250	2,138	900	330	360	22.6

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	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 LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	4" YELLOW PAINT LF	4" WHITE PAINT LF	PAINT LT. ARROW EA	PAINT RT. ARROW EA	CRYSTAL & RED MARKERS EA	YELLOW & YELLOW MARKERS EA
R-5504	Bertie	1	NC 11	FROM NC 305 TO 0.8 Miles North of NC 308	1	6.69	32	1	72,784	35,300	1,200	250	5	6	92,308	70,604	5	6	65	525
		2	NC 11	FROM 0.8 Miles North of NC 308 TO SR 1108	2	3.91	24	*	42,000	36,000	1,200	250	2	4	65,600	41,290	2	4	50	385
GRAND TOTAL						10.60		1	114,784	71,300	2,400	500	7	10	157,908	111,894	7	10	115	910
										73,700		17	269,802	17	1,025					