09/08/99

TIP PROJECT: I-6028B

CONTRACT: C204354

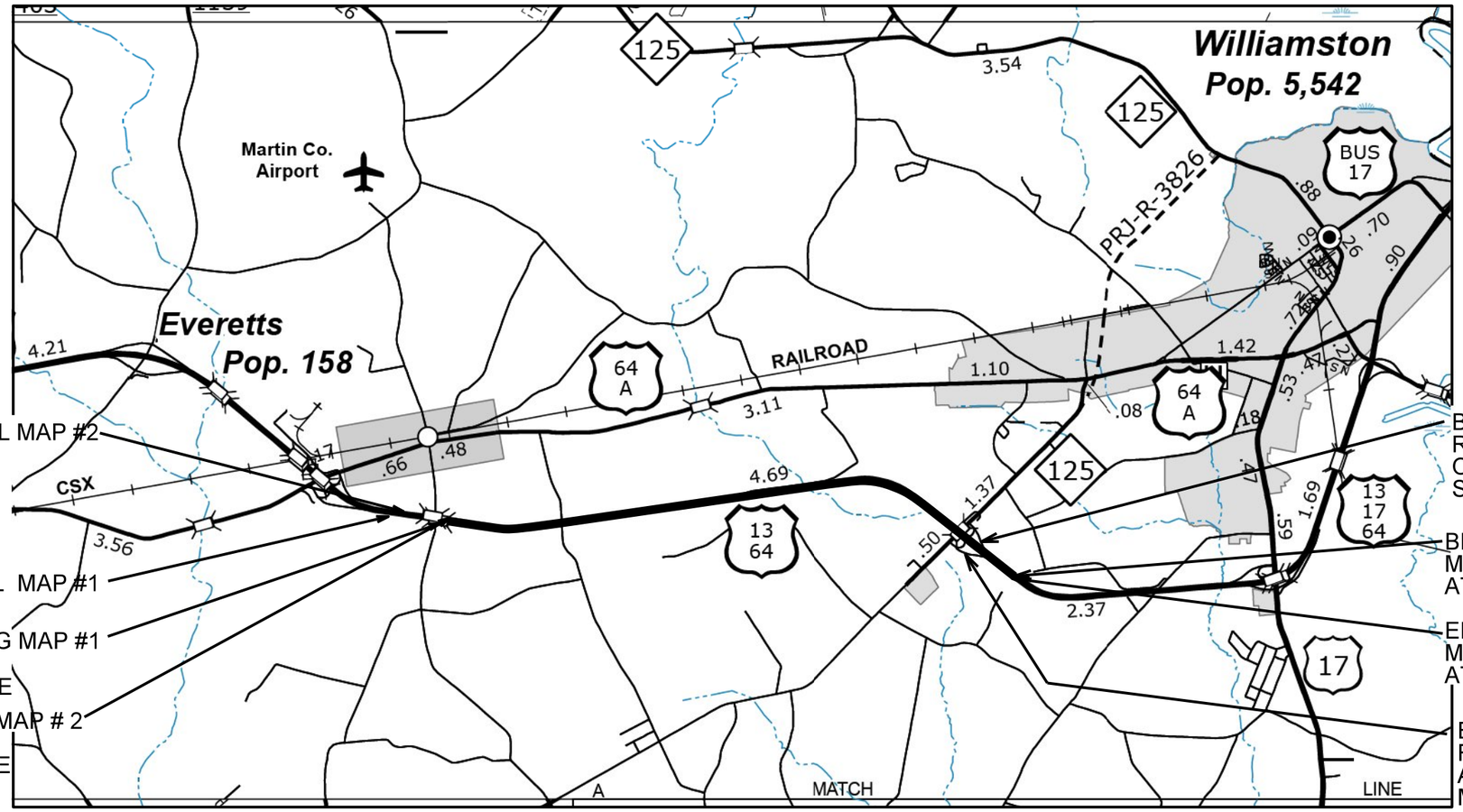
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MARTIN COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	
N.C.	I-6028B	1	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
47977.1.3		PE	
47977.2.3		ROW	
47977.3.3	NHPIM-0064 (201)	CONST	

LOCATION: US 64 (FUTURE I-87 FROM US 64 ALT TO NC 125

TYPE OF WORK: PAVEMENT REHABILITATION



GRAPHIC SCALES

NTS

PROJECT LENGTH

LENGTH ROADWAY MAP #1 = 4.321 MI.

LENGTH ROADWAY MAP #2 = 4.321 MI.

Prepared In the Office of:
DIVISION OF HIGHWAYS
113 Airport Dr., Edenton NC, 27944

2018 STANDARD SPECIFICATIONS

LETTING DATE:
MARCH 17, 2020

W. B. HOBBS, PE
DIVISION PROJECT TEAM LEAD

CHRIS SLACHTA
DIVISION PROPOSALS ENGINEER

S. P. FENWICK, PLS
DIVISION DESIGN ENGINEER

STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION ·

24-JAN-2020 08:49
S:\Shared\Division One Resurfacing & Retreatment Plans\I- 87 Primary\I-6028B\Design Files\I-6028B_Dldc_pshl.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
I-6028B	2

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
B1	PROP. APPROX. 0.75″ OPEN GRADE FRICTION COURSE, TYPE FC-1 MODIFIED, AT AN AVERAGE RATE OF 90 LBS. PER SQ. YD.
V1	MILLING ASPHALT PAVEMENT. 1.5″ IN DEPTH.
U	EXISTING PAVEMENT.
M	EXISTING RUMBLE STRIPS TO BE REPLACED

NOTES:

*ALL PAVED S.R. ROADS OR RAMPS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER

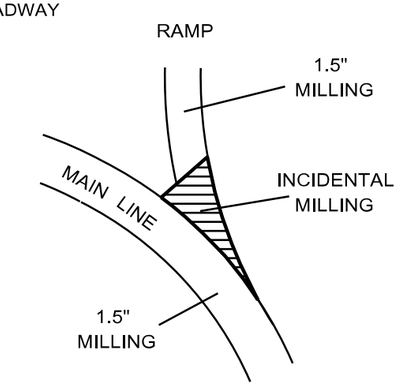
*EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES

*EXISTING MILLED RUMBLE STRIPS TO BE MILLED & REPLACED

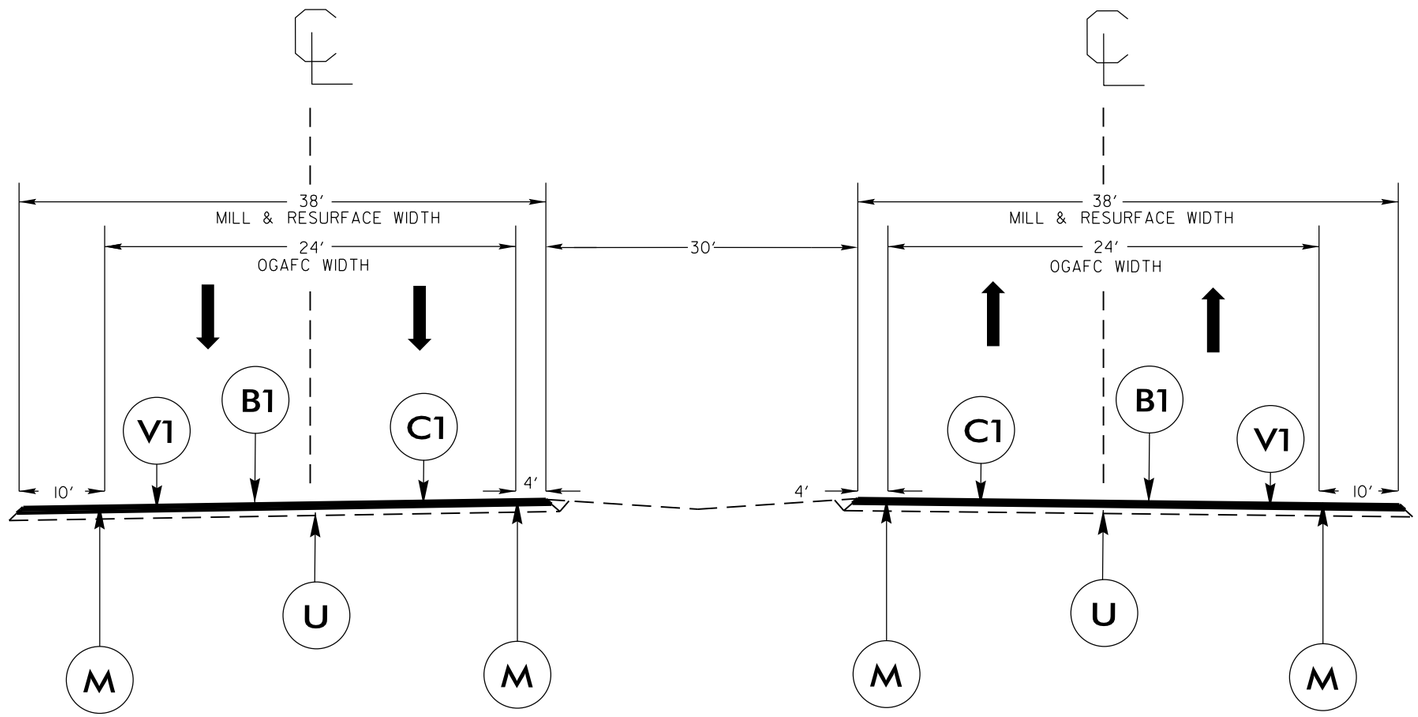
*1.5" MILLING AND 1.5" OF S9.5C TO BE APPLIED ± 38' WIDE OR THE FULL WIDTH OF THE ROADWAY

*ACCELERATION & DECELERATION LANES ARE INCLUDED AS INCIDENTAL MILLING ALONG WITH OTHER IRREGULAR AREAS (SEE DETAIL "A")

*OPEN GRADE ASPHALT FRICTION COURSE TO BE APPLIED TO TRAVEL LANES AND INCLUDES ACCELERATION & DECELERATION LANES



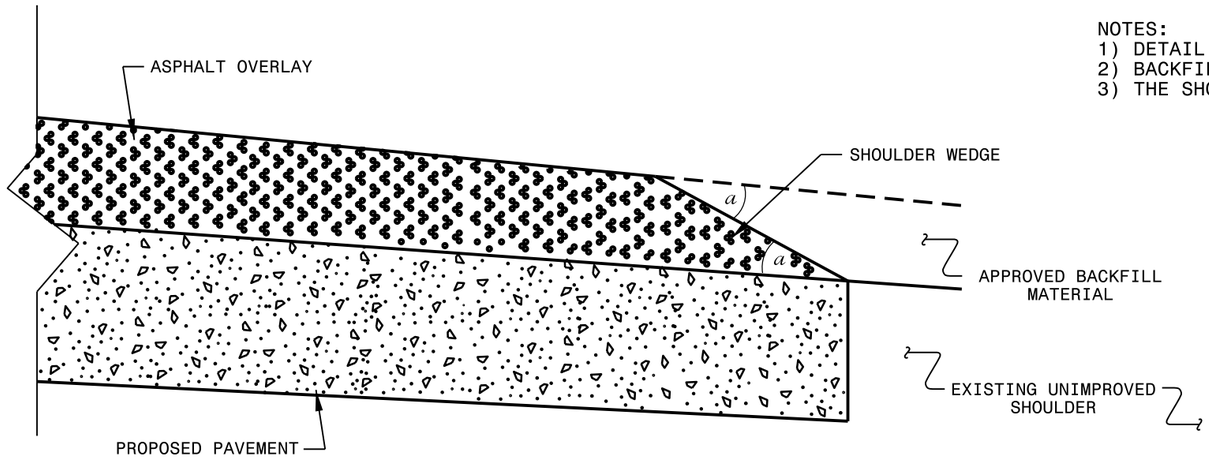
DETAIL A



TYPICAL SECTION NO. 1

USE WITH MAPS 1 & 2

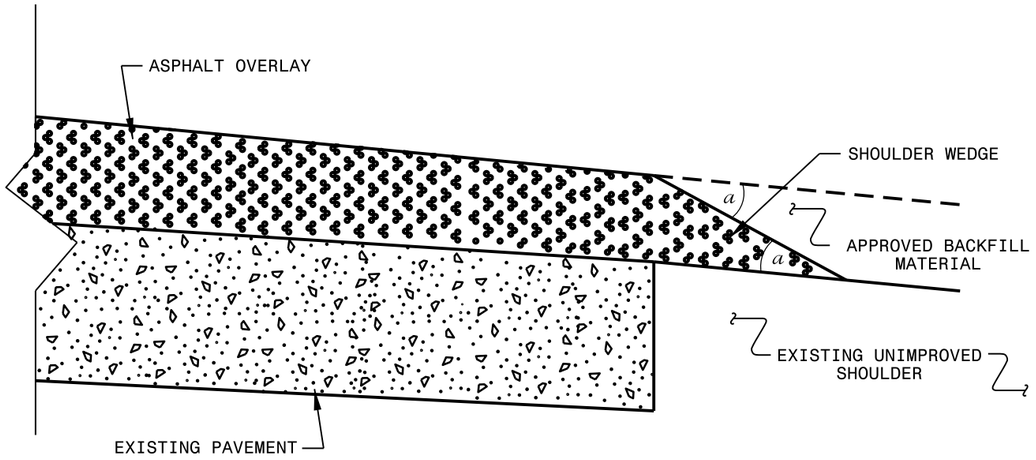
PROJECT REFERENCE NO.	SHEET NO.
I-6028B	3



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.

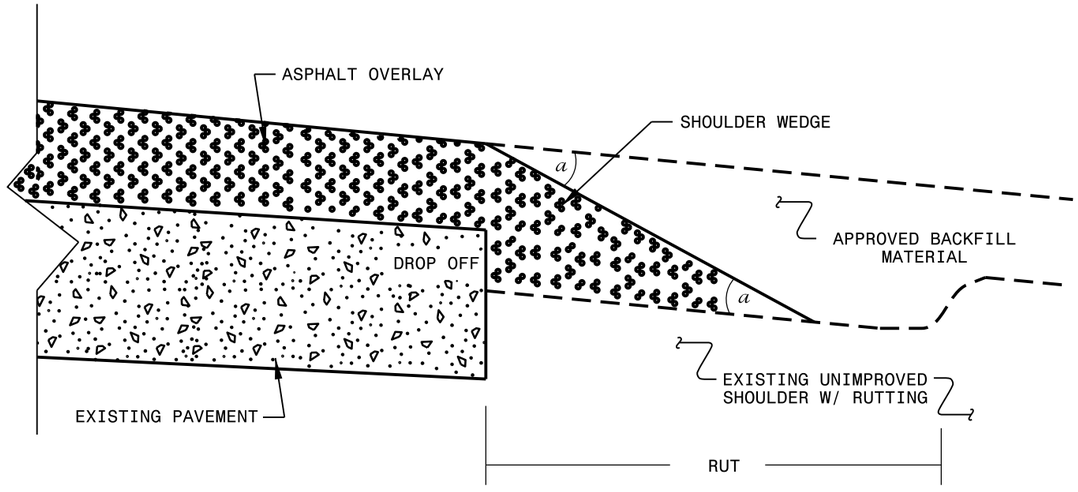
SHOULDER WEDGE DETAIL

(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:\sr\details\stand\shoulderwedgedetail.dgn

SHOULDER & SLOPE RECONSTRUCTION AREAS

STATION FROM/TO		DIRECTION	AREA
STA. 400+39.17	STA. 411+77.17	WBL	2990 SQ YD
STA. 22+00.00	STA. 22+06.00	EBL	13.5 SQ YD

LEGEND

RECONSTRUCTION AREAS

SHOULDER & SLOPE RECONSTRUCTION AREAS

N

STATION FROM/TO		DIRECTION	AREA
STA. 376+42.63	STA. 385+86.63	WBL	1344 SQ YD

LEGEND

RECONSTRUCTION AREAS

PROJECT REFERENCE NO.	SHEET NO.
I-6028B	6

SHOULDER & SLOPE RECONSTRUCTION AREAS

N

STATION FROM/TO		DIRECTION	AREA
STA. 71+56.27	STA. 73+46.27	EBL	317 SQ YD

LEGEND

RECONSTRUCTION AREAS

PROJECT REFERENCE NO.	SHEET NO.
I-6028B	7

SHOULDER & SLOPE RECONSTRUCTION AREAS

N

STATION FROM/TO		DIRECTION	AREA
STA. 148+54.45	STA. 148+60.45	EBL	18 SQ YD

LEGEND

RECONSTRUCTION AREAS

PROJECT NO.	SHEET NO.
I-6028B	8

REVISED: 3/9/2020

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MTV REQUIRED	LENGTH	WIDTH	MOBILIZATION	BORROW EXCAVATION	GENERIC GRADING ITEM (GRADE SHOULDER & SLOPES)	1½" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5C	ASPHALT FOR PLANT MIX	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	OGAFC, TYPE FC-1 MOD	MILLED RUMBLE STRIPS (ASPHALT CEMENT CONCRETE)	GENERIC DRAINAGE ITEM (MASONRY DRAINAGE STRUCTURE REPAIR)	STEEL BEAM GUARDRAIL	STEEL BEAM GUARDRAIL, SHOP CURVED	GUARDRAIL END UNITS, TYPE CAT-1	GUARDRAIL END UNITS, TYPE TL-3	GUARDRAIL ANCHOR UNITS, TYPE B-77	GUARDRAIL ANCHOR UNITS, TYPE B-83	REMOVE EXISTING GUARDRAIL	METAL FUNNELS	12" FUNNEL DRAIN PIPE	DRAINAGE DITCH EXCAVATION
											MI	FT		CY	SY	SY	SY	TONS	TONS	TON	TONS	LF	EA	LF	LF	EA	EA	EA	EA	LF	EA	LF	CY
47977.3.3	Martin	1	US13/64 EBL	FROM SR 1138 EVERETTS RD.) TO MILE POST 512	1	2	MU	NO	NO	YES	4.321	38	1	44	349	102,259	3,142	8,643	519	171.5	2,808.5	45,630	12	7,972		10	11	1	4	8,717	1	30	300
47977.3.3	Martin	2	US13/64 WBL	FROM MILE POST 512 TO SR 1138 (EVERETTS RD.)	1	2	MU	NO	NO	YES	4.321	38	*	541	4,334	101,380	3,182	8,516	511	171.5	2,808.5	45,630	12	9,707	60	9	9	1	4	10,405	1	30	300
GRAND TOTAL											8.642		1	585	4,683	203,639	6,324	17,159	1,030	343	5,617	91,260	24	17,679	60	19	20	2	8	19,122	2	60	600

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MTV REQUIRED	LENGTH	WIDTH	WORK ZONE ADV/GEN WARNING SIGNS	TEMPORARY TRAFFIC CONTROL	6" X 90 M WHITE THERMO	6" X 90 M YELLOW THERMO	THERMO STRAIGHT ARROW, 90 MILS	4" WHITE PAINT	4" YELLOW PAINT	PAINT PAVEMENT MARKING SYMBOL (STRAIGHT ARROW)	SNOW PLOWABLE MARKERS	TEMPORARY SILT FENCE	COIR FIBER MAT	COIR FIBER WATTLE	GENERIC EROSION CONTROL ITEM (COMPOST SEEDING)	1/4" HARDWARE CLOTH	SEDIMENT CONTROL STONE	PATCHING EXISTING PAVEMENT	RESPONSE FOR EROSION CONTROL	PIPE REMOVAL	12" FUNNEL DRAIN PIPE ELBOWS	SHOULDER BERM GUTTER	TOPSOIL
											MI	FT	SF	EA	LF	LF	EA	LF	LF	EA	EA	LF	SY	LF	SY	LF	TON	TON	EA	LF	EA	LF	CY
47977.3.3	Martin	1	US13/64 EBL	FROM SR 1138 EVERETTS RD.) TO MILE POST 512	1	2	MU	NO	NO	YES	4.321	38	240	0.5	30,406	25,343	4	60,812	50,686	4	285	214	480	570	349	336	12	75	2		1	20	30
47977.3.3	Martin	2	US13/64 WBL	FROM MILE POST 512 TO SR 1138 (EVERETTS RD.)	1	2	MU	NO	NO	YES	4.321	38	240	0.5	30,406	25,343	4	60,812	50,686	4	285	2,082	480	200	4,334	336	12	75	2	30	1	20	362
GRAND TOTAL											8.642		480	1	60,812	50,686	8	121,624	101,372	8	570	2,296	960	770	4,683	672	24	150	4	30	2	40	392
															111,498			222,996																

6/21/00

COMPUTED BY: SPF DATE: 12-20-2019
CHECKED BY: _____ DATE: _____

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
I-6028B	9

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL.
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W = TOTAL WIDTH OF FLARE FROM BEGINNING OF TAPER TO END OF GUARDRAIL.
G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

GUARDRAIL SUMMARY

SURVEY LINE	BEG. STA.	END STA.	LOCATION	LENGTH			WARRANT POINT		"N" DIST. FROM E.O.L.	TOTAL SHOUL. WIDTH	FLARE LENGTH		W		ANCHORS									IMPACT ATTENUATOR TYPE TL-3				REMOVE EXISTING GUARDRAIL	REMARKS
				STRAIGHT	SHOP CURVED		APPROACH END	TRAILING END			APPROACH END	TRAILING END	APPROACH END	TRAILING END	TYPE III	GREU TL-2	GREU TL-3	*	*	CAT-1	*	B-83	B-77	EA	G	NG			
EBL-E-	(-)16+24	9+06	RT	1530'													1					1						1530	WEST END OF BRIDGE
EBL-E-	7+36	9+06	LT	170'													1					1						170	WEST END OF BRIDGE
EBL-E-	10+00	11+30	LT	130'			MATCH EXISTING FOR HORIZONTAL LOCATION													1		1						130'	EAST END OF BRIDGE
EBL-E-	10+00	23+93	RT	1393'																1		1						1393'	EAST END OF BRIDGE
EBL-E-	38+46	49+72	RT	1126'													1			1								1126'	
EBL-E-	56+01	57+49	LT	148'													1			1								148'	
EBL-E-	64+65	79+13	RT	1448'													1			1								1448'	
EBL-E-	106+84	108+49	RT	165'													1			1								165'	
EBL-E-	146+21	149+71	RT	350'													1			1								350'	
EBL-E-	172+46	178+12	RT	566'													1			1								566'	
EBL-E-	207+24	210+72	RT	348'													1						1					348'	
EBL-E-	210+22	211+77	LT	155'													1			1								155'	
OFF RAMP	214+60	214+60	RT	78'													1											78'	
ON RAMP	214+60	214+60	RT	1110'																1								1110'	
			SUB TOTAL	8717'		(7972')								SUB TOTAL			11			10		4	1					8717'	
OFF RAMP	202+01	202+01	RT	588													1											588'	
ON RAMP	202+01	202+01	RT	269'	60'															1			1					329'	
WBL-E-	213+49	215+09	LT	160'			MATCH EXISTING FOR HORIZONTAL LOCATION																					160'	
WBL-E-	232+68	260+31	RT	2763'													1			1								2763'	
WBL-E-	276+29	280+29	RT	400'													1			1								400'	
WBL-E-	316+97	318+97	RT	200'													1			1								200'	
WBL-E-	344+45	359+31	RT	1486'													1			1								1486'	
WBL-E-	368+75	370+20	LT	145'													1			1								145'	
WBL-E-	373+16	385+62	RT	1246'													1			1								1246'	
WBL-E-	400+31	416+50	RT	1619'													1					1						1619'	EAST END OF BRIDGE
WBL-E-	414+95	416+50	LT	155'													1					1						155'	EAST END OF BRIDGE
WBL-E-	417+44	418+58	LT	114'																1		1						114'	WEST END OF BRIDGE
WBL-E-	417+44	429+44	RT	1200'																1		1						1200'	WEST END OF BRIDGE
			SUB TOTAL	10345'	60'	(9706.5')								SUB TOTAL			9			9		4	1					10405'	
			SUB TOTAL	19062'																									
		GREU TL-3	20 x 50' =	-1000'																									
		GREU CAT-1	19 X 6.5' =	-123.5'																									
		GRAU B-83	8 X 25' =	-200'																									
		GRAU B-77	2 X 30' =	-60'																									
			TOTAL	17678.5'																									

COMPUTED BY: SPF DATE: 12/31/19
CHECKED BY: DATE:

PROJECT REFERENCE NO.	SHEET NO.
I-6028B	10

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUB–REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION	LOCATION (LT,RT, OR CL)	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	12"	C.S. PIPE 12" .064, 15" .064, 18" .064, 24" .064, 36" .079, 42" .109, 48" .109	R.C. PIPE (CLASS III) 15", 18", 24", 30", 36", 42", 48"	R.C. PIPE (CLASS IV) 12", 15", 18", 24", 30", 36", 42", 48"	**" R. C. PIPE (CLASS V)	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	ENDWALLS CU. YDS. C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0' THRU 5.0')	LIN. *FT. A 5.0' THRU 10.0'	LIN. *FT. B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G			REPAIR MASONRY DRAINAGE STRUCTURE	12" FUNNEL DRAIN PIPE ELBOW	METAL FUNNELS	12" FUNNEL DRAIN PIPE	SHOULDER BERM GUTTER	PIPE REMOVAL LIN.FT.	REMARKS
EBL STA. 14+53	RT																										1	1	30	20'		
EBL STA. 19+55	MEDIAN																									1						
EBL STA. 25+54	MEDIAN																									1						
EBL STA. 42+18	MEDIAN																									1						
EBL STA. 49+72	MEDIAN																									1						
EBL STA. 62+68	MEDIAN																									1						
EBL STA. 79+13	MEDIAN																									1						
EBL STA. 87+14	MEDIAN																									1						
EBL STA. 95+18	MEDIAN																									1						
EBL STA. 101+55	MEDIAN																									1						
EBL STA. 107+84	MEDIAN																									1						
EBL STA. 117+56	MEDIAN																									1						
EBL STA. 123+55	MEDIAN																									1						
EBL STA. 137+39	MEDIAN																									1						
EBL STA. 144+54	MEDIAN																									1						
EBL STA. 147+83	MEDIAN																									1						
EBL STA. 157+33	MEDIAN																									1						
EBL STA. 163+01	MEDIAN																									1						
EBL STA. 168+98	MEDIAN																									1						
EBL STA. 183+28	MEDIAN																									1						
EBL STA. 188+20	MEDIAN																									1						
EBL STA. 196+80	MEDIAN																									1						
EBL STA. 205+25	MEDIAN																									1						
EBL STA. 214+75	MEDIAN																									1						
EBL STA. 233+40	MEDIAN																									1						
WBL STA. 411+00	RT																														30	EXISTING 18" CMP BY MAINTENANCE
WBL STA. 411+75	RT																										1	1	30	20'		

ABBREVIATIONS

C.B. CATCH BASIN
N.D.I. NARROW DROP INLET
D.I. DROP INLET
G.D.I. GRATED DROP INLET
G.D.I. (N.S.) GRATED DROP INLET (NARROW SLOT)
J.B. JUNCTION BOX
M.H. MANHOLE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX

PROJECT NO.	SHEET NO.
I-6028B	3

REVISED: 3/9/2020

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MTV REQUIRED	LENGTH	WIDTH	MOBILIZATION	BORROW EXCAVATION	GENERIC GRADING ITEM (GRADE SHOULDER & SLOPES)	1½" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5C	ASPHALT FOR PLANT MIX	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	OGAFC, TYPE FC-1 MOD	MILLED RUMBLE STRIPS (ASPHALT CEMENT CONCRETE)	GENERIC DRAINAGE ITEM (MASONRY DRAINAGE STRUCTURE REPAIR)	STEEL BEAM GUARDRAIL	STEEL BEAM GUARDRAIL, SHOP CURVED	GUARDRAIL END UNITS, TYPE CAT-1	GUARDRAIL END UNITS, TYPE TL-3	GUARDRAIL ANCHOR UNITS, TYPE B-77	GUARDRAIL ANCHOR UNITS, TYPE B-83	REMOVE EXISTING GUARDRAIL	METAL FUNNELS	12" FUNNEL DRAIN PIPE	DRAINAGE DITCH EXCAVATION
											MI	FT		CY	SY	SY	SY	TONS	TONS	TON	TONS	LF	EA	LF	LF	EA	EA	EA	EA	LF	EA	LF	CY
47977.3.3	Martin	1	US13/64 EBL	FROM SR 1138 EVERETTS RD.) TO MILE POST 512	1	2	MU	NO	NO	YES	4.321	38	1	44	349	102,259	3,142	8,643	519	171.5	2,808.5	45,630	12	7,972		10	11	1	4	8,717	1	30	300
47977.3.3	Martin	2	US13/64 WBL	FROM MILE POST 512 TO SR 1138 (EVERETTS RD.)	1	2	MU	NO	NO	YES	4.321	38	*	541	4,334	101,380	3,182	8,516	511	171.5	2,808.5	45,630	12	9,707	60	9	9	1	4	10,405	1	30	300
GRAND TOTAL											8.642		1	585	4,683	203,639	6,324	17,159	1,030	343	5,617	91,260	24	17,679	60	19	20	2	8	19,122	2	60	600

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MTV REQUIRED	LENGTH	WIDTH	WORK ZONE ADV/GEN WARNING SIGNS	TEMPORARY TRAFFIC CONTROL	6" X 90 M WHITE THERMO	6" X 90 M YELLOW THERMO	THERMO STRAIGHT ARROW, 90 MILS	4" WHITE PAINT	4" YELLOW PAINT	PAINT PAVEMENT MARKING SYMBOL (STRAIGHT ARROW)	SNOW PLOWABLE MARKERS	TEMPORARY SILT FENCE	COIR FIBER MAT	COIR FIBER WATTLE	GENERIC EROSION CONTROL ITEM (COMPOST SEEDING)	1/4" HARDWARE CLOTH	SEDIMENT CONTROL STONE	PATCHING EXISTING PAVEMENT	RESPONSE FOR EROSION CONTROL	PIPE REMOVAL	12" FUNNEL DRAIN PIPE ELBOWS	SHOULDER BERM GUTTER	TOPSOIL
											MI	FT	SF	EA	LF	LF	EA	LF	LF	EA	EA	LF	SY	LF	SY	LF	TON	TON	EA	LF	EA	LF	CY
47977.3.3	Martin	1	US13/64 EBL	FROM SR 1138 EVERETTS RD.) TO MILE POST 512	1	2	MU	NO	NO	YES	4.321	38	240	0.5	30,406	25,343	4	60,812	50,686	4	285	214	480	570	349	336	12	75	2		1	20	30
47977.3.3	Martin	2	US13/64 WBL	FROM MILE POST 512 TO SR 1138 (EVERETTS RD.)	1	2	MU	NO	NO	YES	4.321	38	240	0.5	30,406	25,343	4	60,812	50,686	4	285	2,082	480	200	4,334	336	12	75	2	30	1	20	362
GRAND TOTAL											8.642		480	1	60,812	50,686	8	121,624	101,372	8	570	2,296	960	770	4,683	672	24	150	4	30	2	40	392
															111,498			222,996																

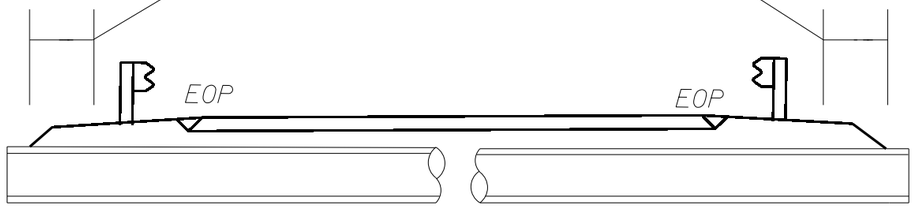
PROJECT REFERENCE NO.	SHEET NO.
I-6028B	EC-1

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

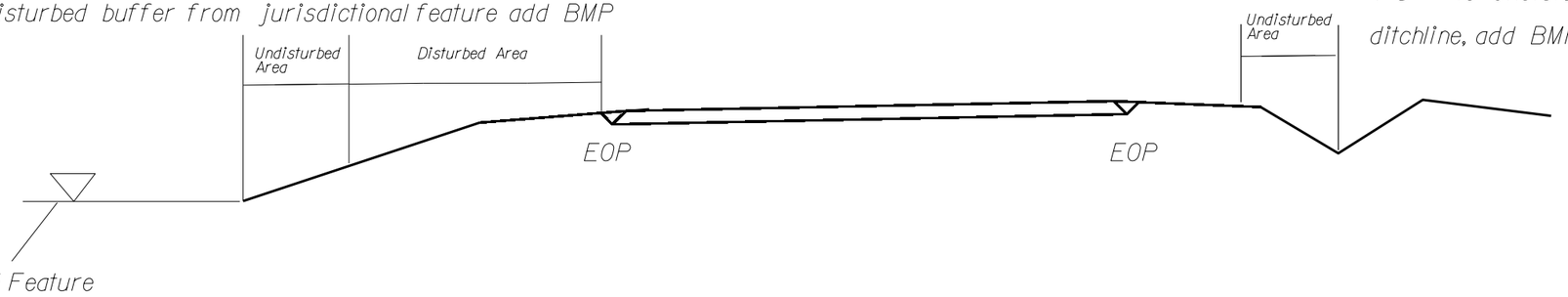
< 5' - 10' Undisturbed buffer add BMP



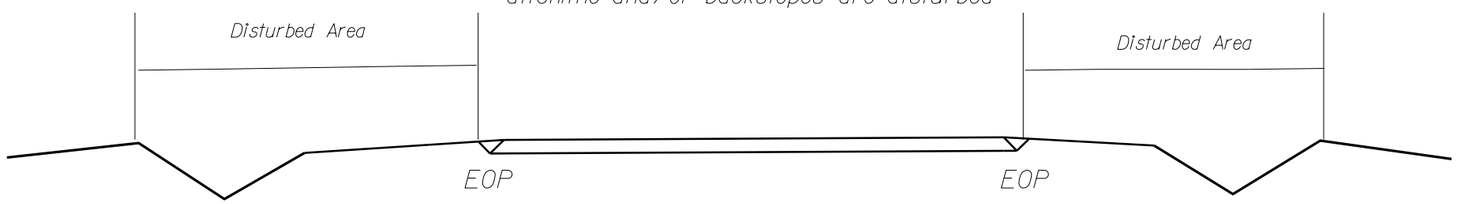
Pipe/Culvert

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

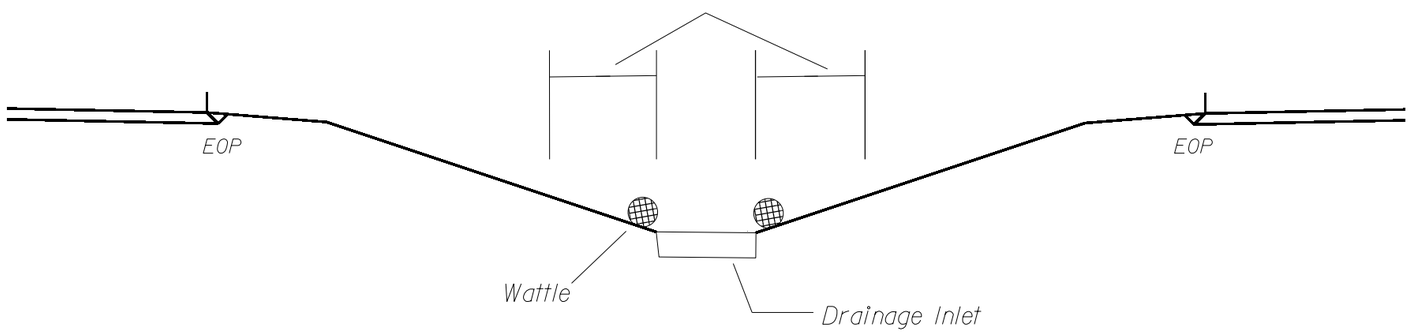
< 5' - 10' Undisturbed buffer from ditchline, add BMP



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



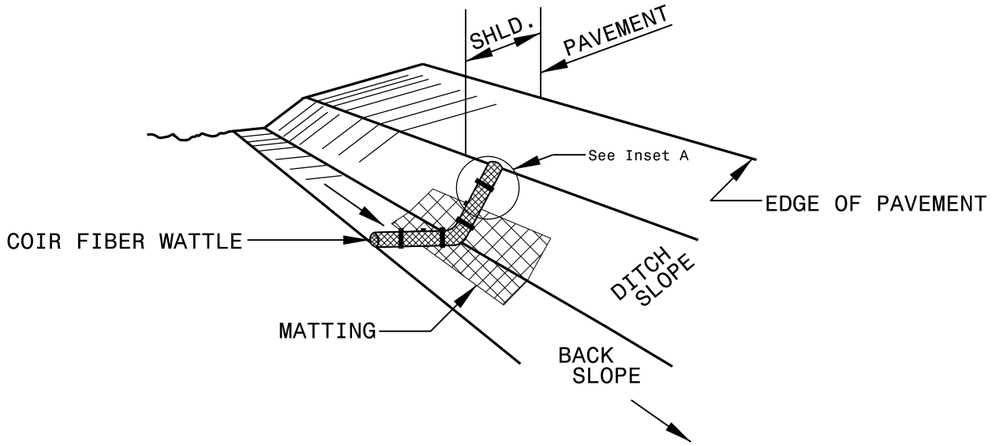
< 5' - 10' Undisturbed buffer from inlet, add wattle



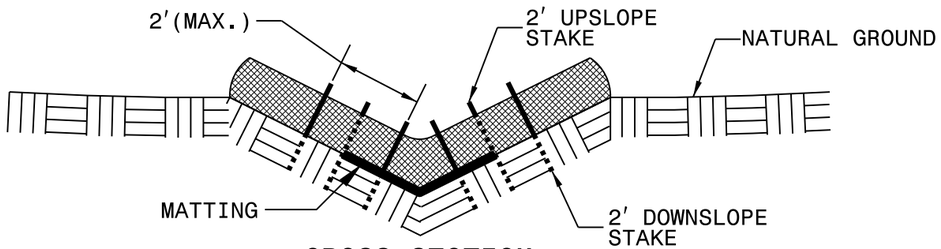
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
I-6028B	EC-2

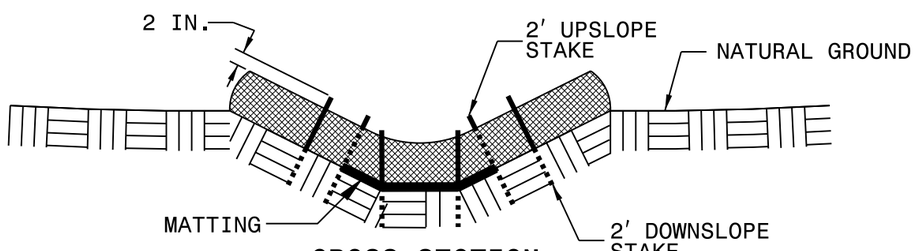
COIR FIBER WATTLE DETAIL



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.

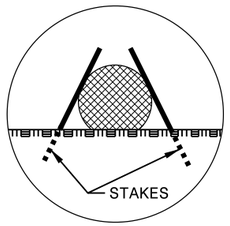
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

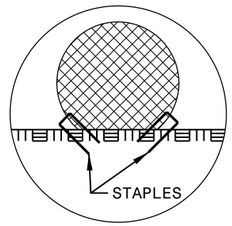
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

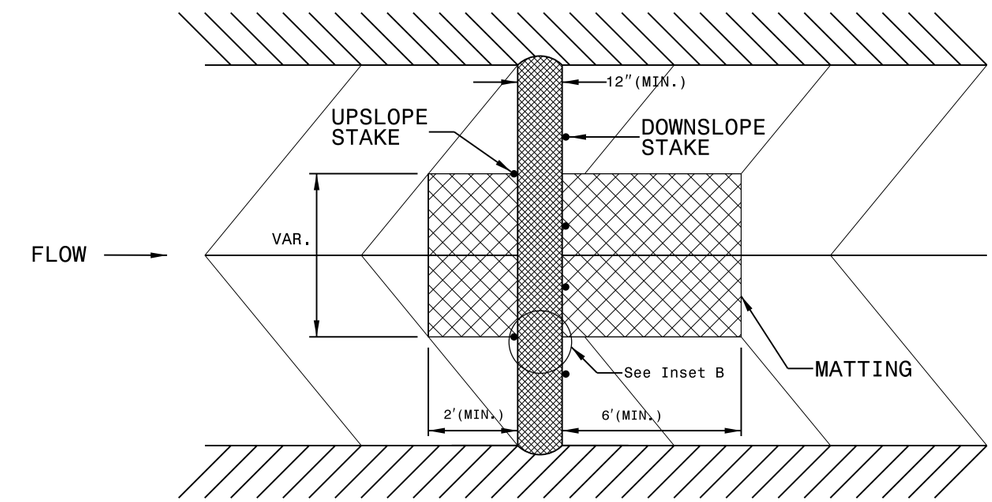
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A

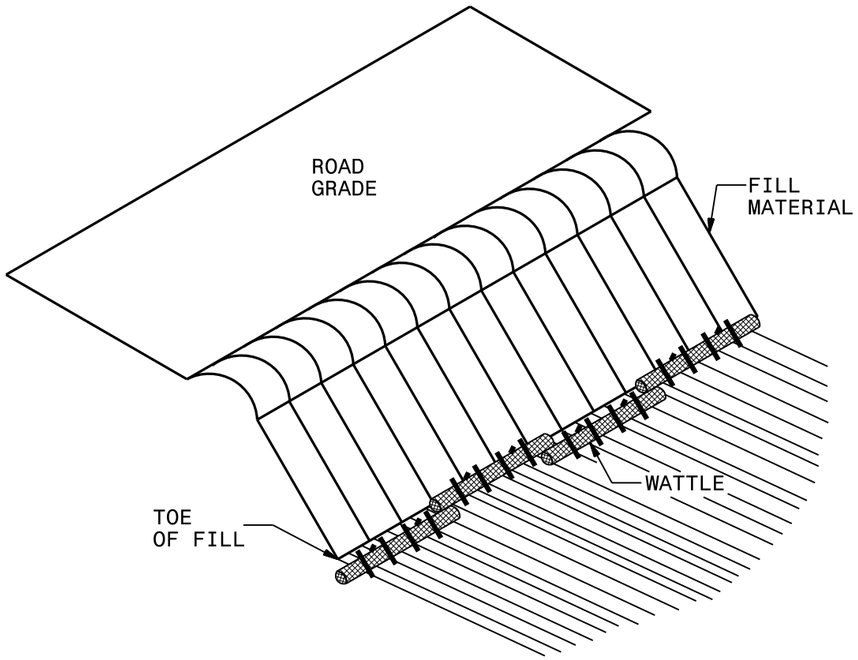


INSET B



TOP VIEW

COIR FIBER WATTLE BARRIER DETAIL



ISOMETRIC VIEW

NOTES:

USE MINIMUM 18 IN. NOMINAL DIAMETER COIR FIBER (COCONUT) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 2 TO 3 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLES ON TOE OF SLOPE.

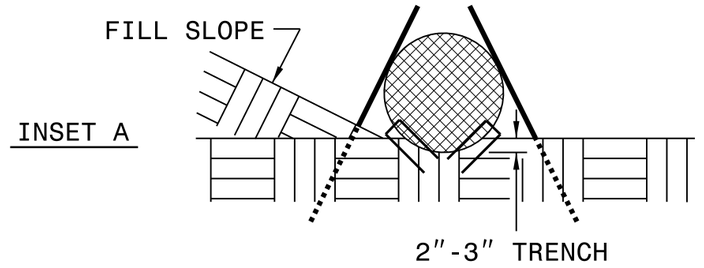
USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

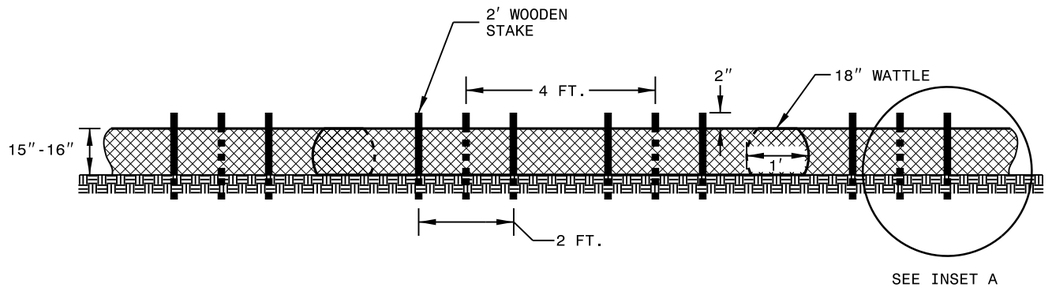
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

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

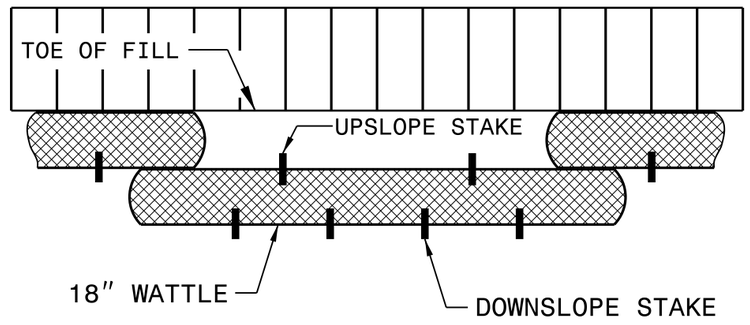
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

FOR BREAKS ALONG LARGE SLOPES, USE MAXIMUM SPACING OF 25 FT.





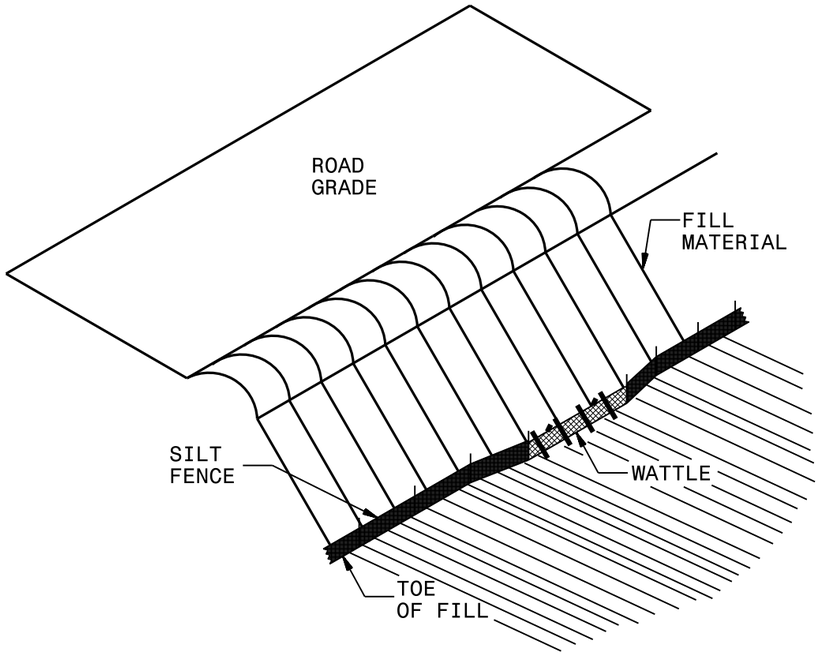
FRONT VIEW



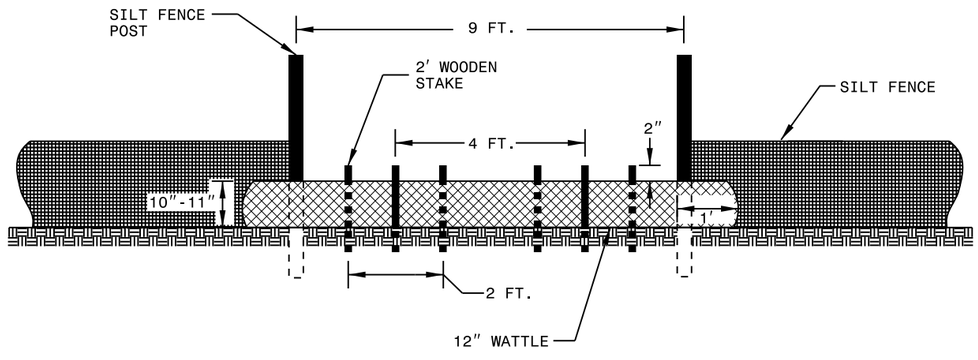
TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
I-6028B	EC-4

SILT FENCE COIR FIBER WATTLE BREAK DETAIL



ISOMETRIC VIEW



VIEW FROM SLOPE

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLE ON TOE OF SLOPE.

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

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

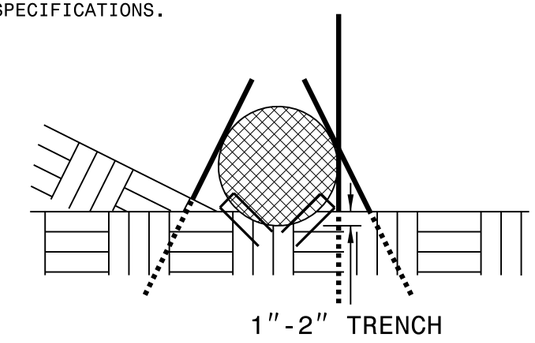
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

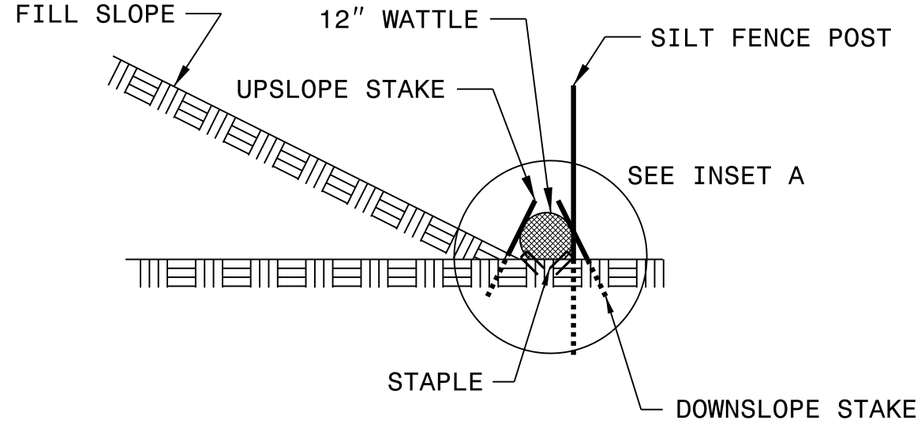
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A





SIDE VIEW

PROJECT REFERENCE NO.	SHEET NO.
I-6028B	EC-5

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
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.