

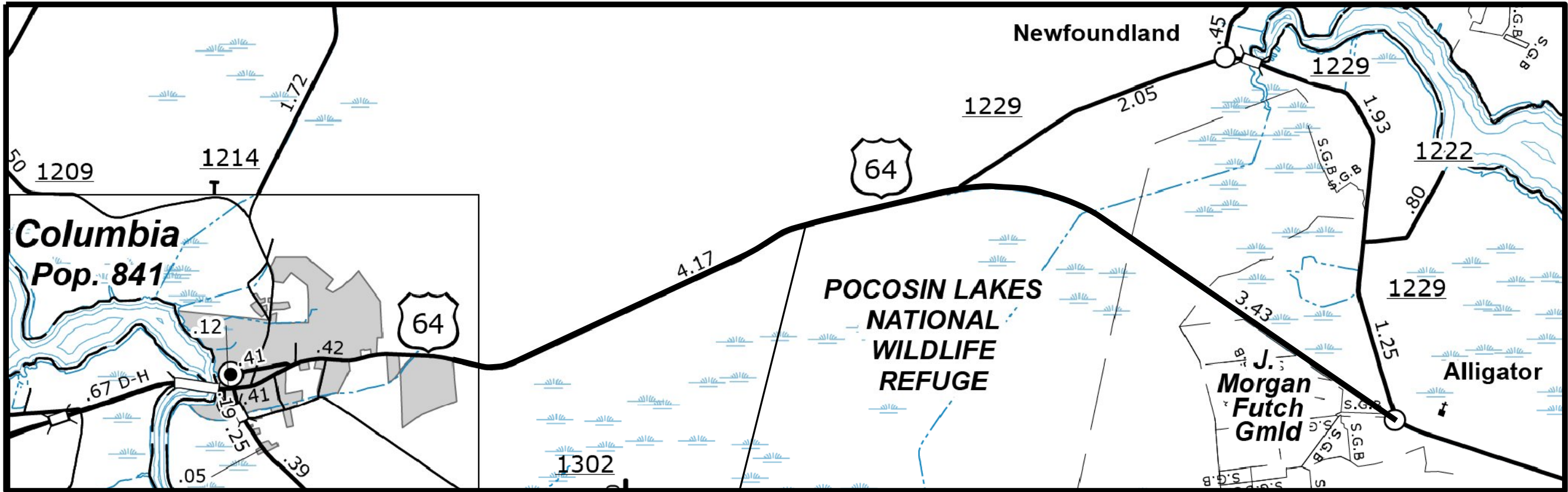
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	2021CPT.01.07.10891.1, ETC	1
STATE PROJ. NO.		DESCRIPTION
2021CPT.01.07.10891.1		PE, CONST

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TYRRELL COUNTY

LOCATION: MAP 1 - US 64 FROM ECL OF COLUMBIA TO SR 1229 (OLD US 264)

TYPE OF WORK: GUARDRAIL REPLACEMENT, MILLING & RESURFACING



MAP 1

CONTRACT: DA00490 WBS ELEMENT: 2021CPT.01.07.10891.1, ETC.

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<p>GRAPHIC SCALES</p> <p>NTS</p>		<p>PROJECT LENGTH</p> <p>MAP 1 = 7.050 MILES</p>	<p>Prepared In the Office of: DIVISION OF HIGHWAYS 113 Airport Dr., Suite 100, Edenton NC, 27932</p> <p>2018 STANDARD SPECIFICATIONS</p> <p>W. B. HOBBS, PE DIVISION PROJECT TEAM LEAD</p> <p>CHRIS SLACHTA DIVISION PROPOSALS ENGINEER</p>	<p>S.P. FENWICK, PLS DIVISION DESIGN ENGINEER</p>	
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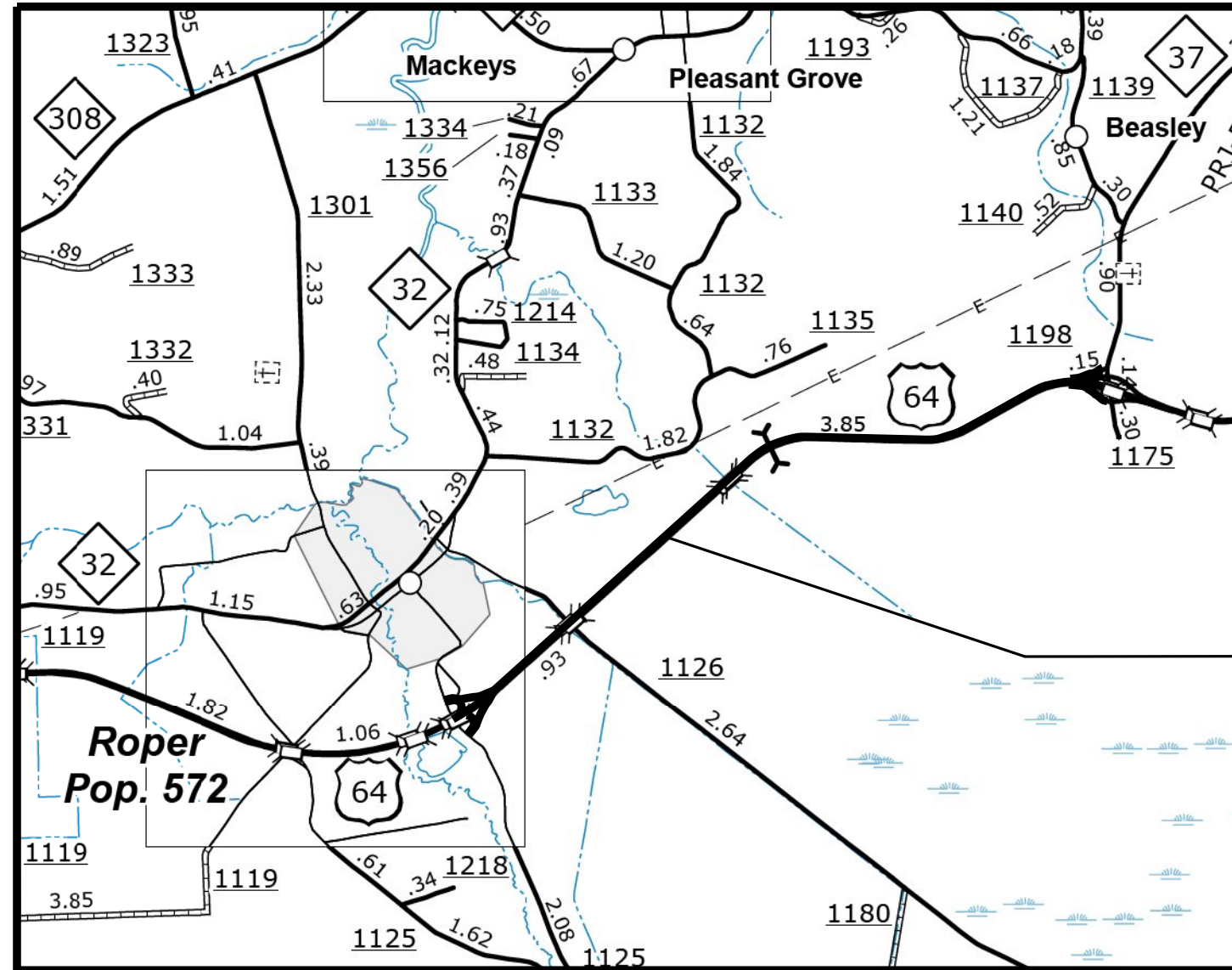
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.
N.C.	2021CPT.01.07.10891.1, ETC	2
STATE PROJ. NO.		DESCRIPTION
2021CPT.01.07.10941.1		PE, CONST

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WASHINGTON COUNTY

LOCATION: MAP 2 - US 64 EBL FROM SR 1125 (E. MILLPOND RD.) TO SR 1375 (NORTHLINE RD.)/NC 37
MAP 3 - US 64 WBL FROM SR 1375 (NORTHLINE RD.)/NC 37 TO SR 1125 (E. MILLPOND RD.)

TYPE OF WORK: MILLING & RESURFACING (OGAFC)



**MAP 2
&
MAP 3**

GRAPHIC SCALES

NTS

PROJECT LENGTH

MAP 2 = 4.750 MILES
MAP 3 = 4.740 MILES

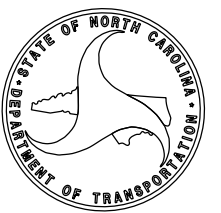
Prepared In the Office of:
DIVISION OF HIGHWAYS
113 Airport Dr., Suite 100, Edenton NC, 27932

2018 STANDARD SPECIFICATIONS

W. B. HOBBS, PE
DIVISION PROJECT TEAM LEAD

CHRIS SLACHTA
DIVISION PROPOSALS ENGINEER

S. P. FENWICK, PLS
DIVISION DESIGN ENGINEER



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CONTRACT: DA00490 WBS ELEMENT: 2021CPT.01.07.10891.1, ETC.

PAVEMENT SCHEDULE

PROJECT REFERENCE NO.	SHEET NO.
2021CPT.01.07,10891.1, ETC.	3

B1	PROP. APPROX. 0.75" OPEN GRADE ASPHALT FRICTION COURSE, TYPE 1 MODIFIED, AT AN AVERAGE RATE OF 90 LBS. PER SQ. YD.
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING ASPHALT PAVEMENT. 1.5" IN DEPTH.
V2	MILLED RUMBLE STRIPS
U	EXISTING PAVEMENT.

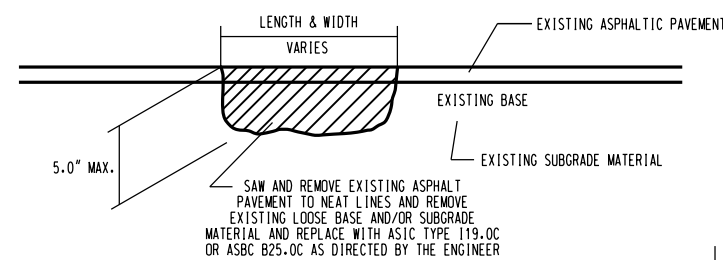
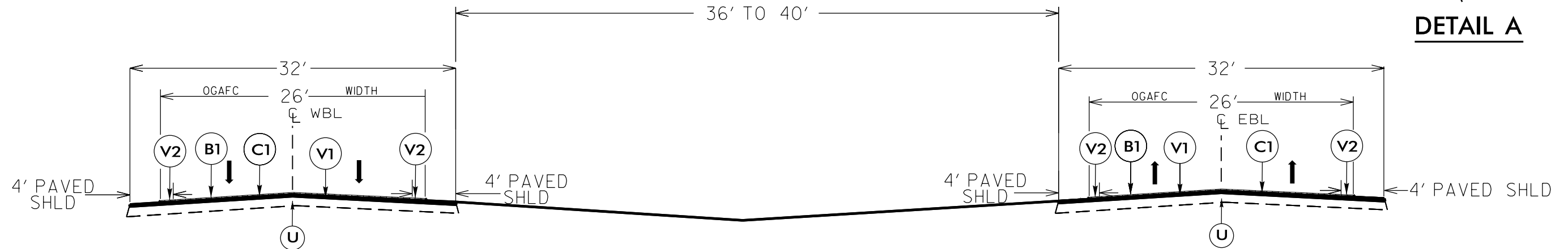
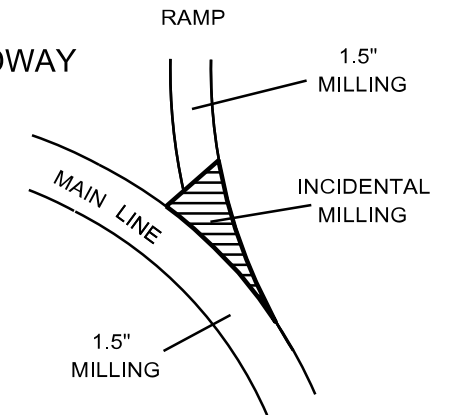
NOTES:

ALL INGRESS AND EGRESS RAMPS TO BE RESURFACED TO THE EDGE OF PAVEMENT OF THE CONNECTING ROAD OR AS DIRECTED BY THE ENGINEER

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

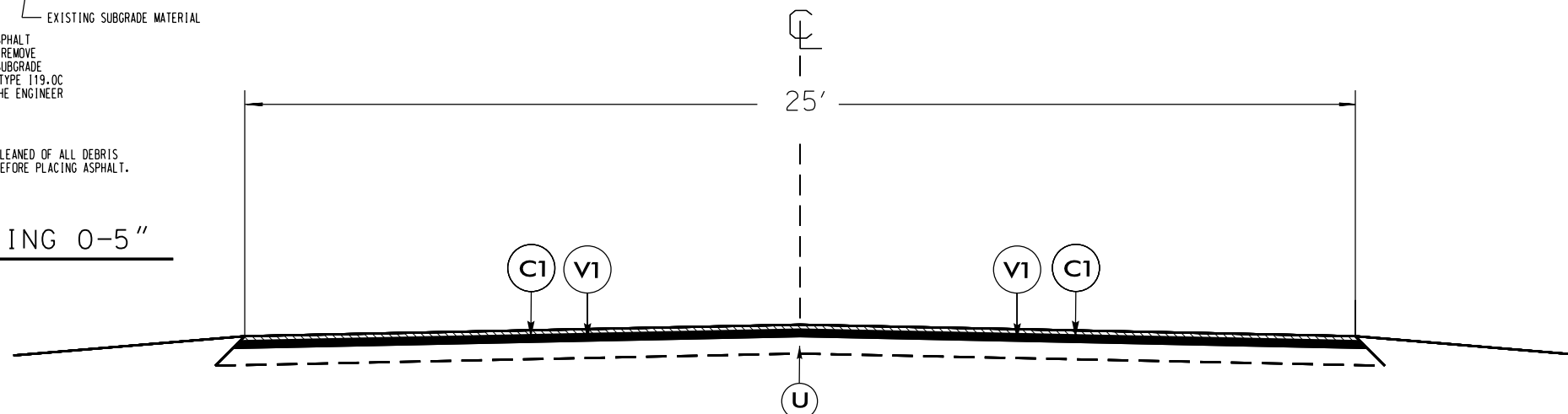
1.5" MILLING AND 1.5" OF S9.5C TO BE APPLIED THE FULL WIDTH OF THE ROADWAY

0.75" OGAFC TO BE APPLIED AT A WIDTH OF 26'



*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

FULL DEPTH PATCHING 0-5"



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PROJECT NO.	SHEET NO.
2021CPT.01.07.10891, ETC.	4

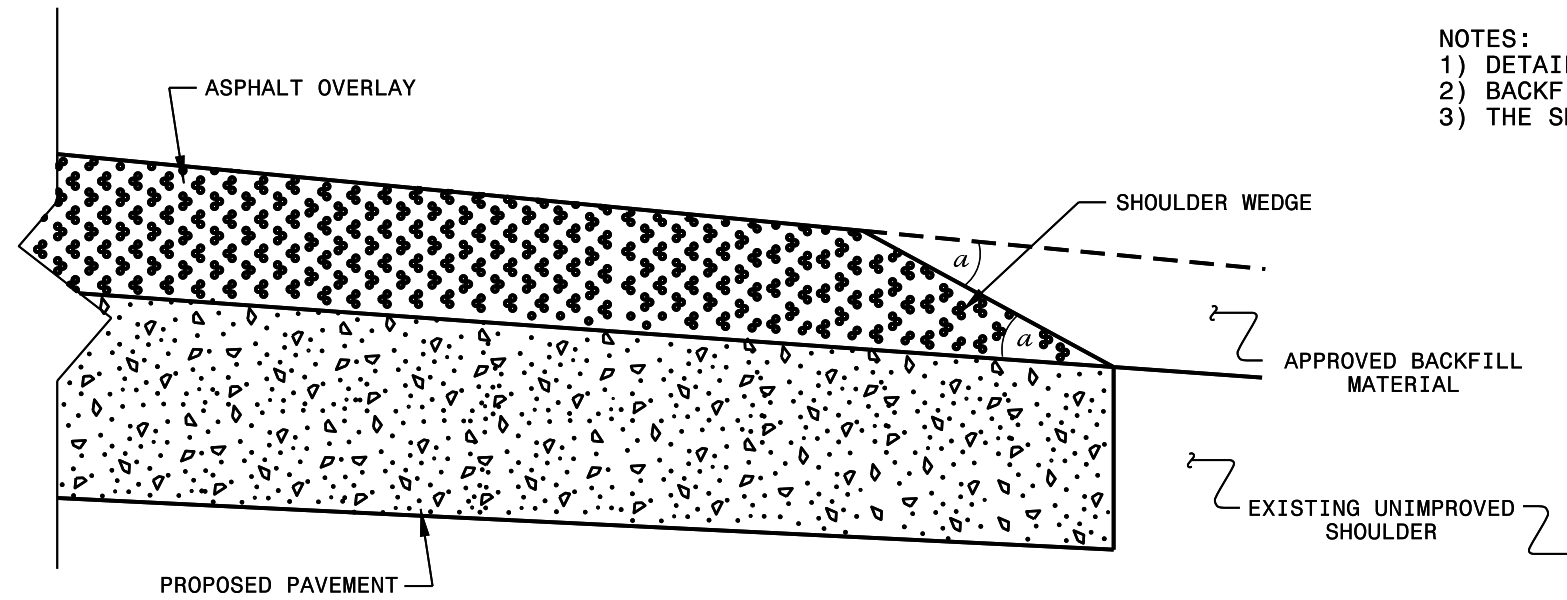
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIALS TRANSFER VEHICLE REQUIRED	LENGTH	WIDTH	MOBILIZATION	INCIDENTAL STONE BASE	MILLING ASPHALT PAVEMENT (1.5")	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	ASPHALT BINDER FOR PLANT MIX	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	OGAFC, TYPE FC-1 MOD	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	GENERIC PAVING ITEM, PATCHING EXISTING PAVEMENT FULL DEPTH 0-5"	STEEL BEAM GUARDRAIL	GUARDRAIL END UNITS, TYPE TL-3	REMOVE EXISTING GUARDRAIL	WORK ZONE ADV/GEN WARNING SIGNING	TEMPORARY TRAFFIC CONTROL
											MI	FT	LS	TONS	SY	SY	TONS	TONS	TON	TONS	LF	TON	LF	EA	LF	SF	LS
2021CPT.01.07.10891.1	Tyrrell	1	US 64	PAVEMENT JOINT AT ECL OF COLUMBIA TO SR 1229 (OLD US 64)	1	2	2WU	NO	NO	YES	7.05	25	1	141	103,400	523	8,831	530				30	19,470	22	20,570	532	1
2021CPT.01.07.10941.1	Washington	2	US 64 EBL	SR 1125 (E. MILLPOND RD) TO SR 1375 (NORTHLINE RD)/ NC 37	2	2	MU	NO	NO	YES	4.75	32	*	20	92,054	14,764	9,216	553	212	3,480	48,646	30				524	*
2021CPT.01.07.10941.1	Washington	3	US 64 WBL	SR 1375 (NORTHLINE RD)/ NC 37 TO SR 1125 (E MILLPOND RD)	2	2	MU	NO	NO	YES	4.74	32	*	20	90,190	13,608	9,877	593	211	3,451	48,540	30				524	*
GRAND TOTAL											16.54		1	181	285,644	28,895	27,924	1,676	423	6,931	97,186	90	19,470	22	20,570	1,580	1

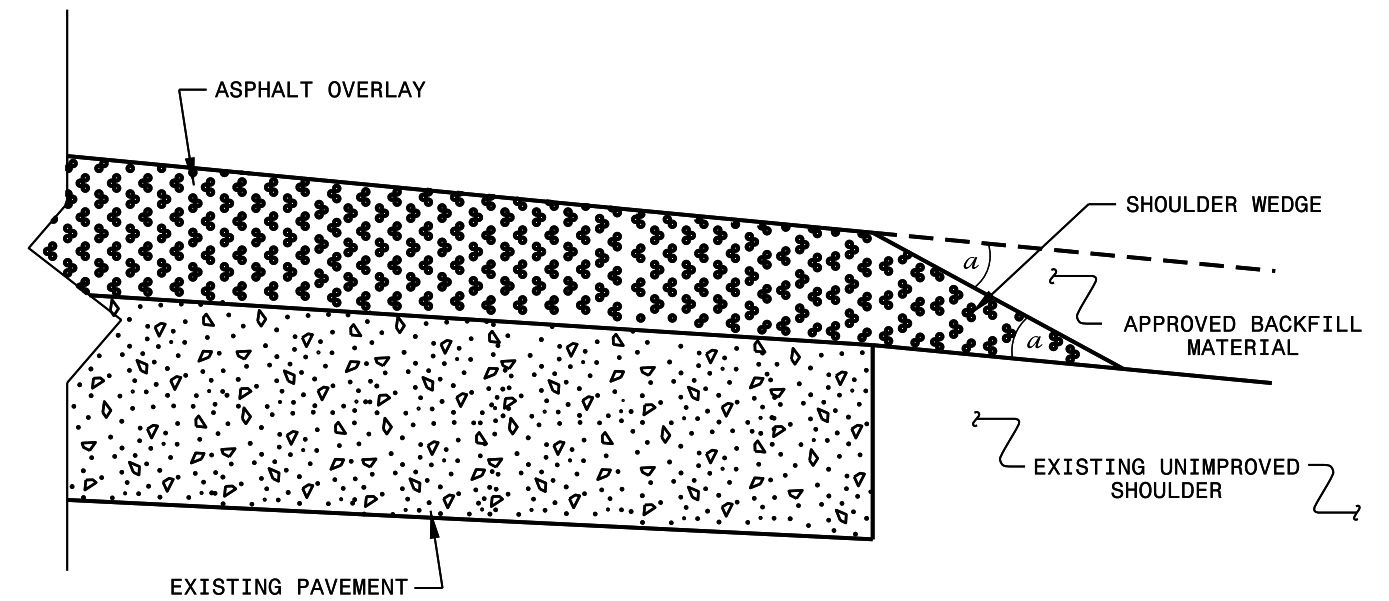
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	GENERIC PAVEMENT MARKING ITEM, HOT SPRAY THERMO LINES (6", WHITE)	GENERIC PAVEMENT MARKING ITEM, HOT SPRAY THERMO LINES (6", YELLOW)	THERMO PAVEMENT MARKING LINES (6", 90 MILS) WHITE	THERMO PAVEMENT MARKING LINES (6", 90 MILS) YELLOW	THERMO PAVEMENT MARKING LINES (8", 90 MILS)	THERMO PAVEMENT MARKING SYMBOL (90 MILS), LT ARROW	THERMO PAVEMENT MARKING SYMBOL (90 MILS), MERGE ARROW	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	PAINT PAVEMENT MARKING LINES (24")	PAINT PAVEMENT MARKING SYMBOL (LT ARROW)	PAINT PAVEMENT MARKING SYMBOL (MERGE ARROW)	GENERIC PAVEMENT MARKING ITEM, THERMO LINE (24", 90 MILS)	GENERIC PAVEMENT MARKING ITEM, NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER	TEMPORARY SILT FENCE	COIR FIBER WATTLE	RESPONSE FOR EROSION CONTROL			
								MI	FT	LF	LF	LF	LF	EA	LF	LF	LF	EA	LF	EA	LF	EA	EA	EA	EA	EA	EA	EA	EA
2021CPT.01.07.10891.1	Tyrrell	1	US 64	PAVEMENT JOINT AT ECL OF COLUMBIA TO SR 1229 (OLD US 64)	1	2	2WU	7.05	25			75,858	46,530				151,716	93,060	40			40	465	100	40	2			
2021CPT.01.07.10941.1	Washington	2	US 64 EBL	SR 1125 (E. MILLPOND RD) TO SR 1375 (NORTHLINE RD)/ NC 37	2	2	MU	4.75	32	946	757	50,164	30,593	125	3	3	103,274	61,943	30	3	3	30	314	100	40	1			
2021CPT.01.07.10941.1	Washington	3	US 64 WBL	SR 1375 (NORTHLINE RD)/ NC 37 TO SR 1125 (E MILLPOND RD)	2	2	MU	4.74	32	946	757	50,056	30,527	112	3	3	101,058	61,811	30	3	3	30	313	100	40	1			
GRAND TOTAL											16.54		1,892	1,514	176,078	107,650	237	6	6	356,048	216,814	100	6	6	100	1,092	300	120	4
													3,406		283,728			12		572,862			12						

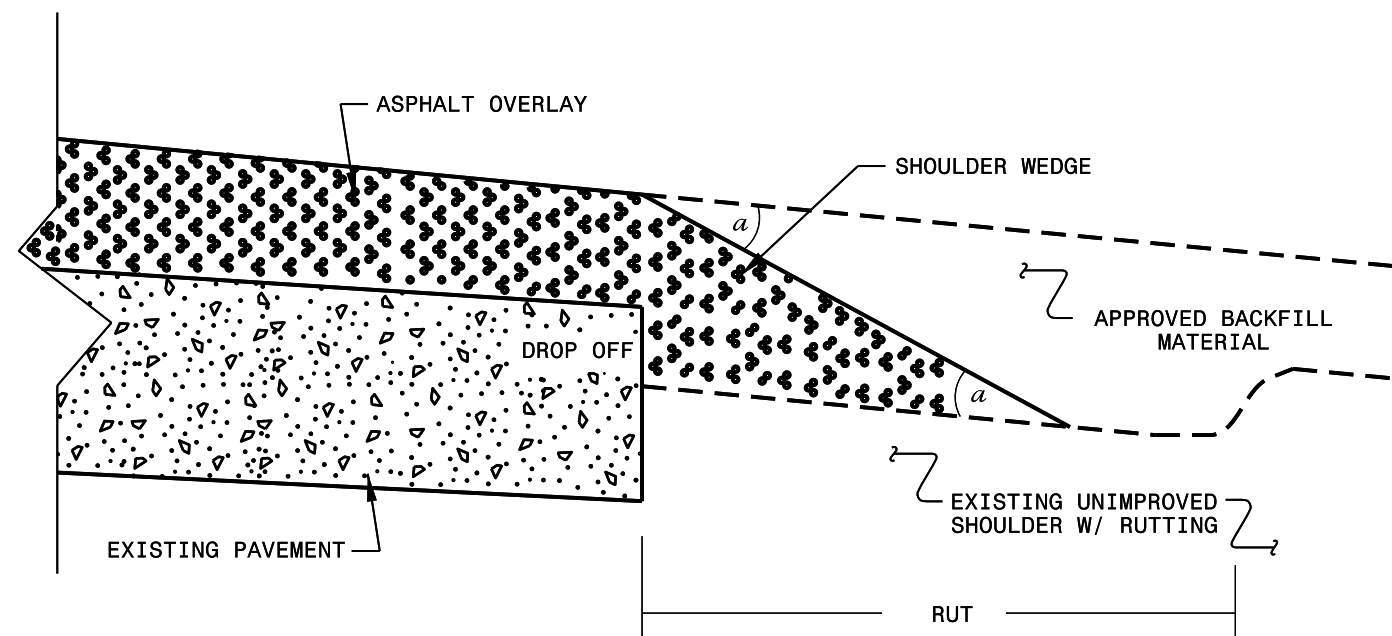
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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

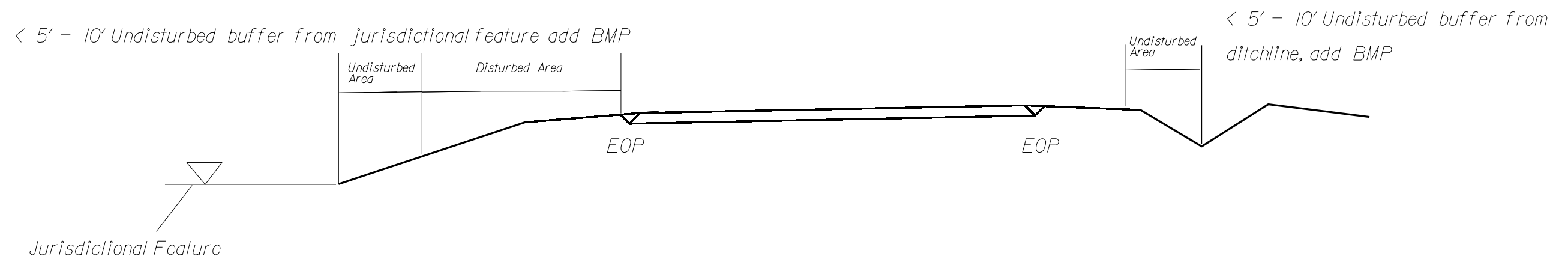
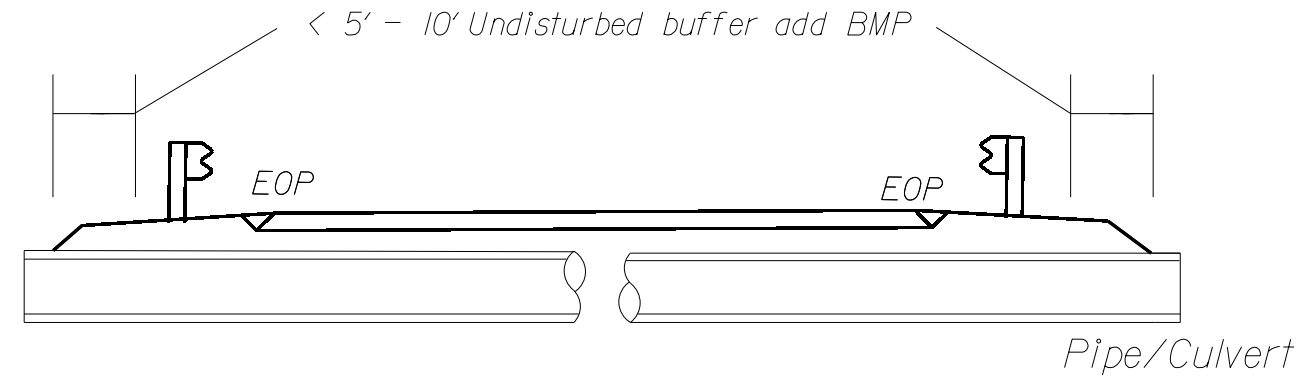
**SHOULDER WEDGE
 DETAILS**

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

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

BMP Options: Wattle or Silt Fence

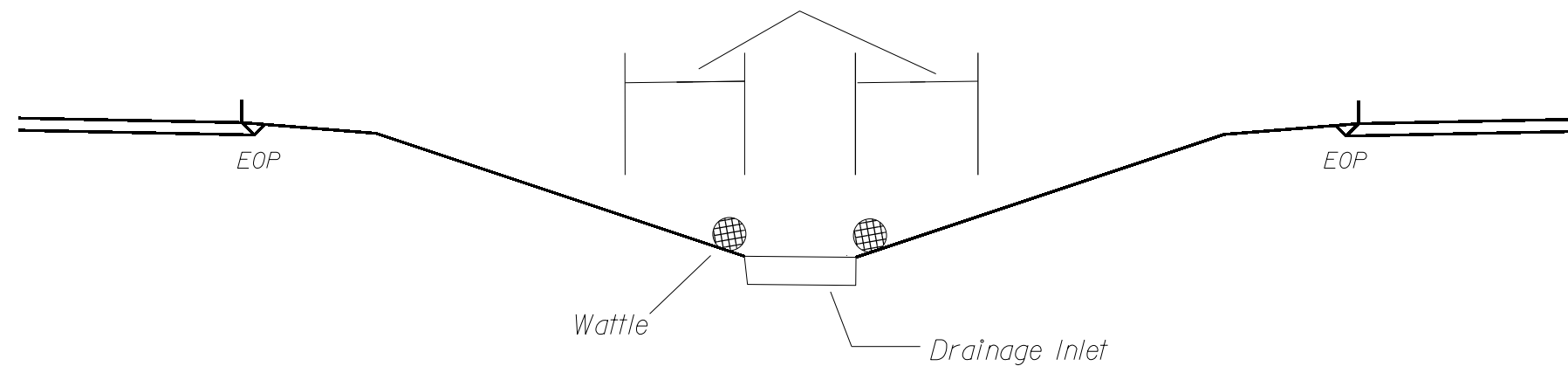
EROSION CONTROL DETAIL



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

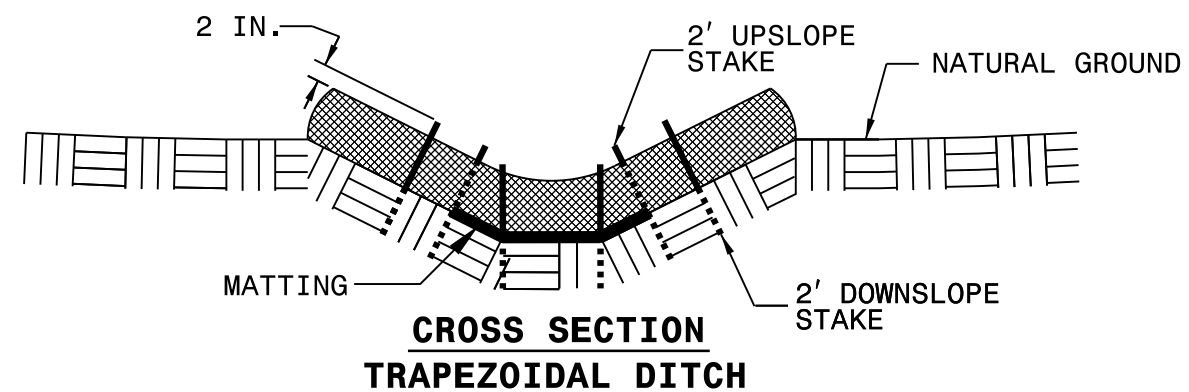
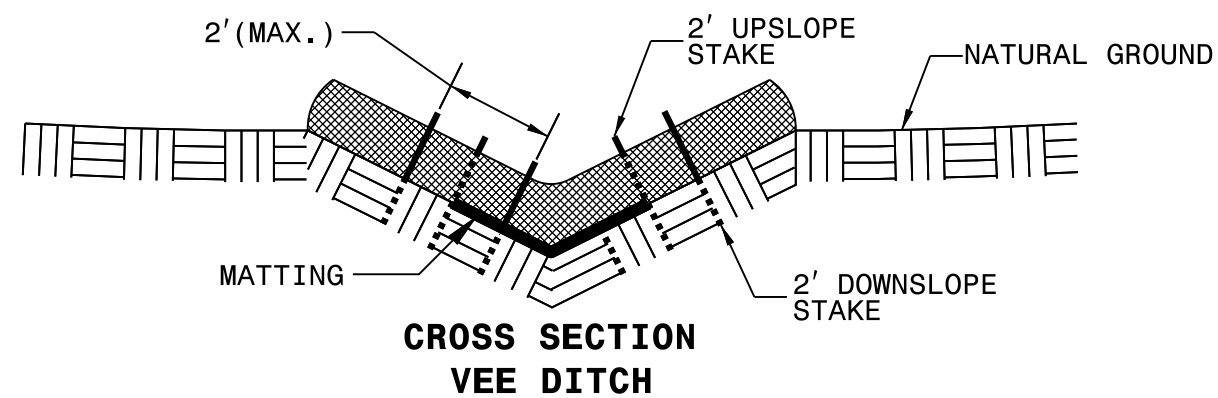
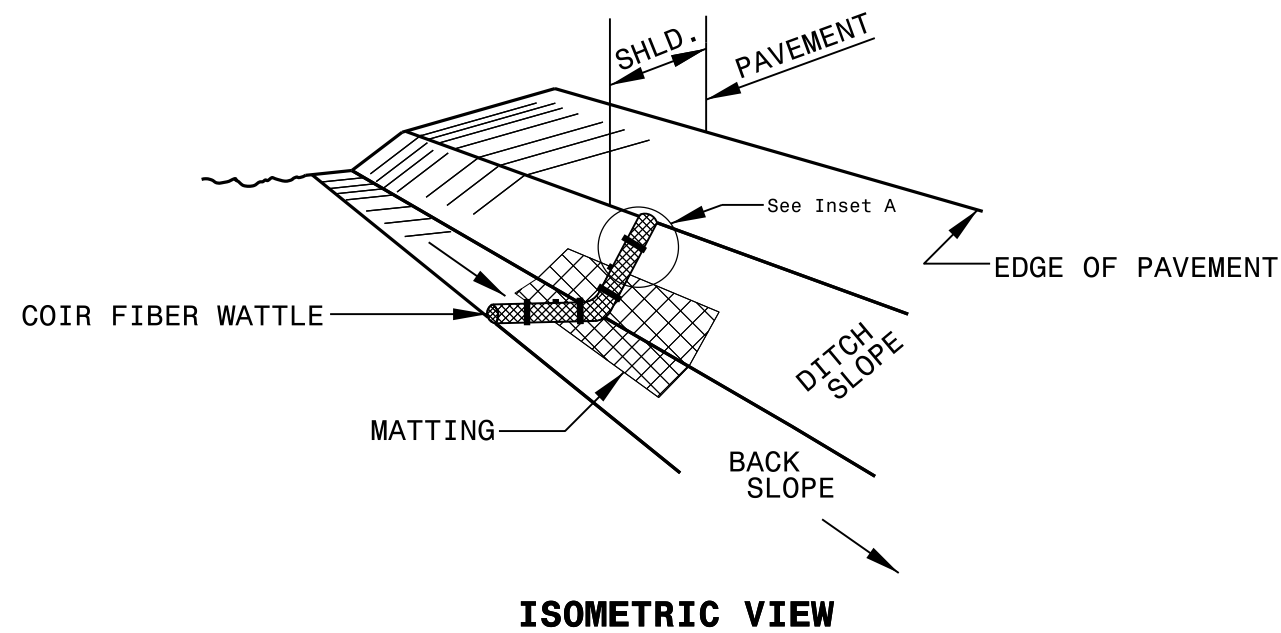


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

COIR FIBER WATTLE DETAIL



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.

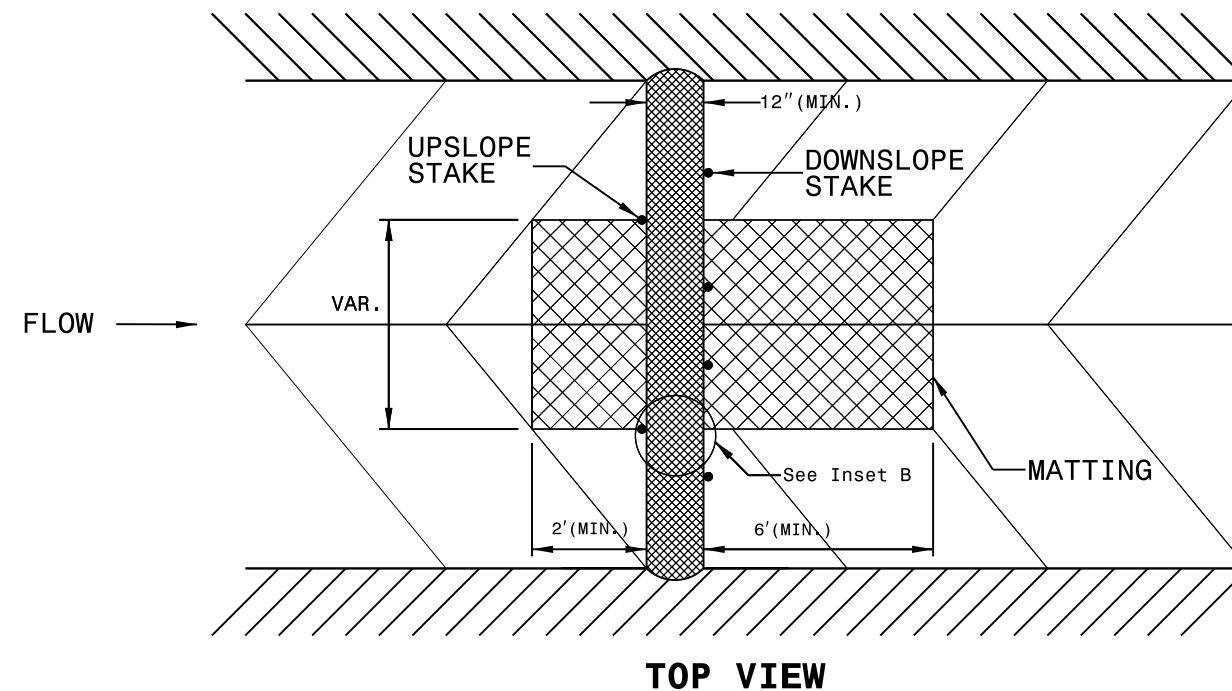
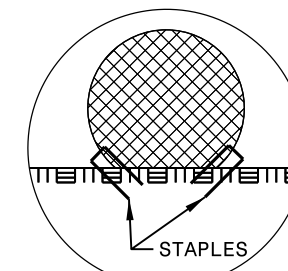
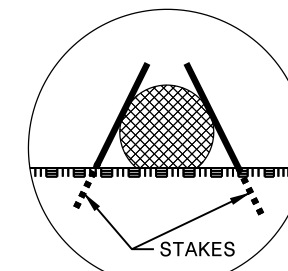
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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.



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

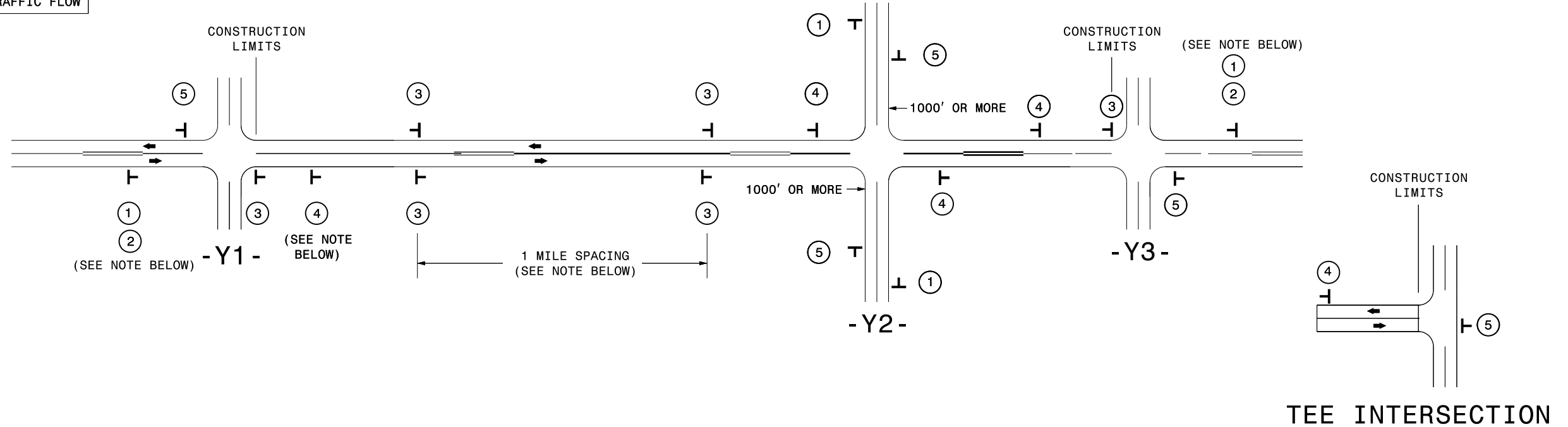
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 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.

SIGNING FOR RESURFACING PROJECTS

LEGEND

┃ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	①		PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.
	②		#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		- 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		- 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		PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.
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.			

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

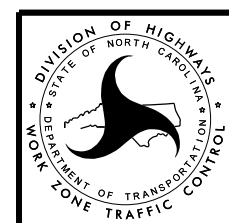
- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

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.



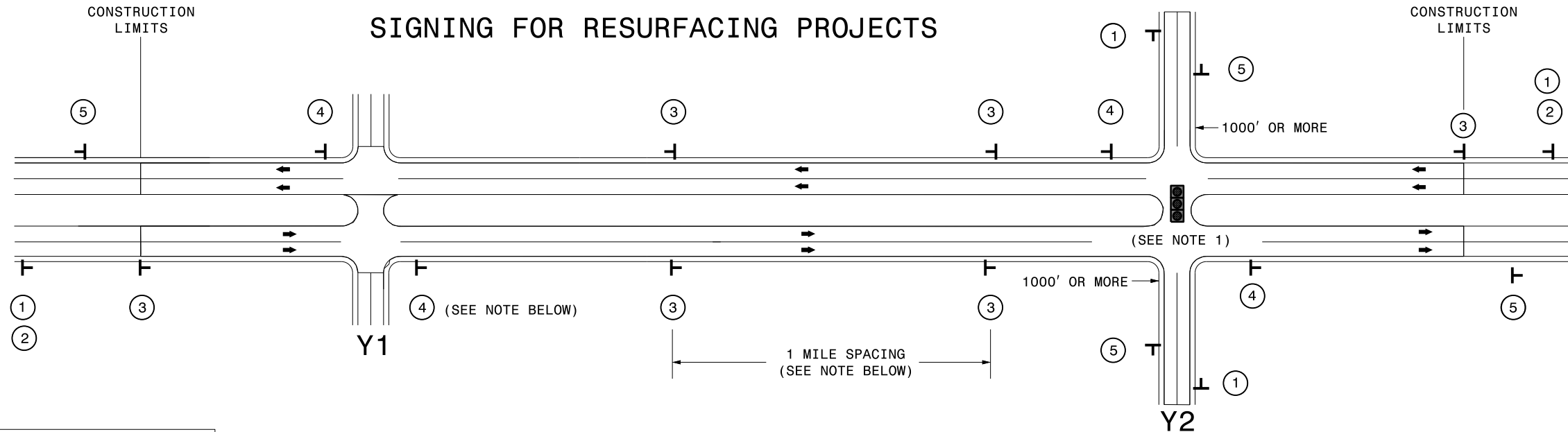
PLACED 500' IN ADVANCE OF FLAGGER.

MAPS LESS THAN 2 MILES



ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

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LEGEND
 T STATIONARY SIGN
 ← DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	①		PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> LESS THAN 1000' OF RESURFACING ALONG -Y- LINE SUBDIVISION ROADS DEAD END ROADS <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>NOTES:</p> <ol style="list-style-type: none"> 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.
	②		#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)	
	③		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.	
	④		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.	
	⑤		PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.	

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

