

STATE OF NORTH CAROLINA N.C. 2022CPT.01.04.10371.1, ETC. DIVISION OF HIGHWAYS STATE PROJ. NO. E2022CPT.01.04.20371.1 PE, CONST GATES COUNTY ELEMENT: 2022CPT.01.04.10371. LOCATION: MAP 3 - SR 1302 (GATES BANK RD) FROM SR 1304 TO NC 37 MAP 4 - SR 1313 (SAUNDERSTOWN RD) FROM SR 1318 TO DEAD END MAP 5 - SR 1327 (PARKERS FORK RD) FROM SR1305 TO SR 1328 TYPE OF WORK: AST (SINGLE/DOUBLE SEAL), MILLING, RESURFACING & SHOULDER RECONSTRUCTION Drum Hill $\frac{1308}{}$ Red Grove 1.47 1307 Ch. MAP 5 1329 1.33 1309 Corapeake Duke 1344 1328 1300 <u>1318</u> 1.95 1310 1308 1311 Swamp 37 1327 1327 Wiggins BLACK Hazelton Crossroads 1301 Parkers S 1304 MINGLE**Fork** WB. 1300 MAP HALL POCOSIN MAP 3 <u>∞</u>1305 1326 Willeyton స్త్ర స్త్ర<u>1345</u> <u>1313</u> POCOSIN**DA00511** <u>1318</u> <u>1302</u> 3.80 1233 1325 1232 Middle Savage GRAPHIC SCALES Prepared in the Office of: PROJECT LENGTH **DIVISION OF HIGHWAYS** CONTRA 113 Airport Dr., Edenton NC, 27932 2018 STANDARD SPECIFICATIONS MAP 3 = 1.55 MILES S. P. FENWICK, PLS MAP 4 = 0.77 MILES NTS W. B. HOBBS, PE MAP 5 = 2.03 MILESC. E. SLACHTA

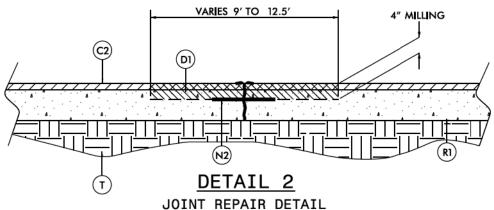
DIVISION CONTRACT ENGINEER

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	EXISTING ASPHALT CONCRETE SURFACE COURSE
СЗ	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
F1	ASPHALT SURFACE TREATMENT, SINGLE SEAL
F2	ASPHALT SURFACE TREATMENT, DOUBLE SEAL
N2	PROPOSED SELF-ADHESIVE PAVEMENT INTERLAYER
R1	EXISTING CONCRETE PAVEMENT.
Т	EARTH MATERIAL
U	EXISTING PAVEMENT.
V1	MILLING ASPHALT PAVEMENT. 1.5" IN DEPTH.
V2	MILLING DEPTH PER DETAIL FOR JOINT REPAIR

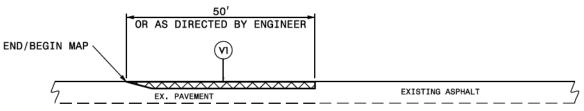
NOTES:

- * ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER.
 THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
- * EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES
- * PLACE PROPOSED SELF-ADHESIVE PAVEMENT INTERLAYER AND CONCRETE INTERMEDIATE COURSE TYPE I19.0C ON MAP1 IN LOCATIONS APPROVED BY ENGINEER, SEE DETAIL 2 & SPECIAL PROVISION.



NOTE:

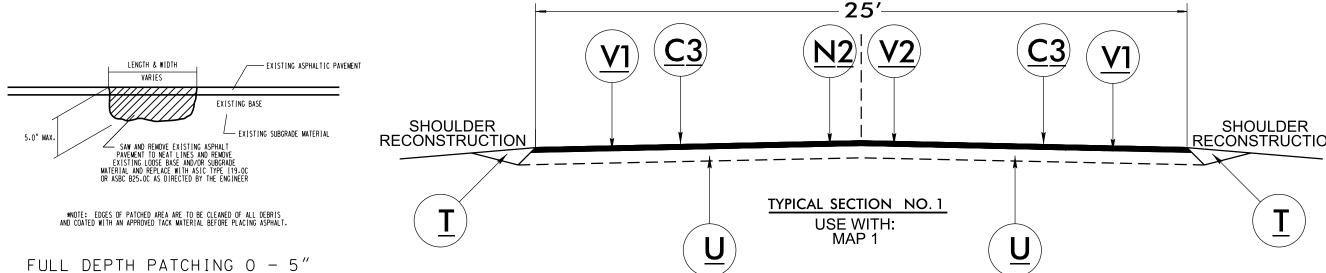
- 1. SAW CUT 4.5' TO 6.25' ON BOTH SIDES OF CRACK.
- 2. REMOVE EXISTING PAVEMENT STRUCTURE TO A DEPTH OF 4 INCHES.
- 3. SCHEDULE OPERATIONS SO ALL AREAS WHERE PAVEMENT HAS BEEN REMOVED WILL BE REPAIRED AND ALL LANES OF TRAFFIC RESTORED ON THE SAME DAY OF THE PAVEMENT REMOVAL. THE CONTRACTOR WILL BE RESTRICTED TO REPAIRING ONE SIDE OF THE EXISTING PAVEMENT AT A TIME UNLESS OTHERWISE PERMITTED BY THE ENGINEER.



DETAIL 1

MAIN LINE MILLING

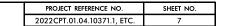
- 1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIL LINE SECTIONS,
 OR AS DIRECTED BY THE ENGINEER.
- 2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



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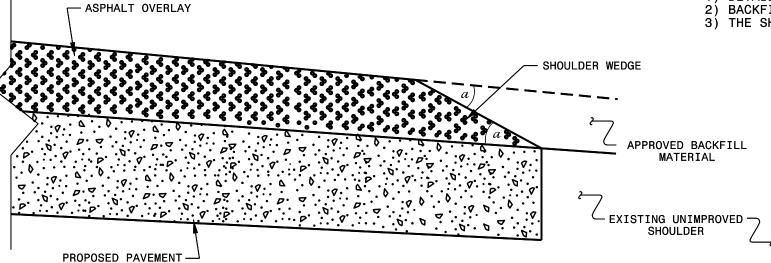
												SUM	MARY	Y O F	QUA	TIT	IES															
PROJECT NO	COUNTY MAI		DESCRIPTION	TYP LAI	NES LANE TYPE	SURFACE TESTING	ASPHALT	TRANSFER	R	WIDTH	MOBILIZATIOI	BORROW	INCIDENTAL	SHOULDER RECONSTRUCTIO	MILLING	INCIDENTAL MILLING			ASPHALT BINDER FOR PLANT MIX	SURFACE TREATMENT,	1	EMULSION FOR ASPHALT SURFACE TREATMENT	PAVING ITEM, PATCHING	PAVING ITEM, I JOINT REPAIR		STEEL BEAM GUARDRAIL	GUARDRAIL END UNITS, TYPE TL-3		EXISTING	SILT FENCE		SEEDING & RES
									MI	FT	LS	СҮ	TONS	SMI	SY	SY	TONS	TONS	TONS	SY	SY	GAL	TON	TON	LF	LF	EA	EA	LF	LF	LF	ACR
022CPT.01.04.10371.1	Gates 1	US158	US13 TO US158 ALT	1	2 2WU	NO	NO	YES	5.17	25	1	1,034	103	10.34	77,336	7,700		7,741	464				500	570	4,000	670	4	4	670	100	100	5.2
TOTAL FOR	PROJ NO. 2022	22CPT.01.04.10371.1							5.17		*	1,034	103	10.34	77,336	7,700		7,741	464				500	570	4,000	670	4	4	670	100	100	5.2
022CPT.01.04.20371.1	Gates 2	SR1113 WHITE OAK RD	SR1118 TAYLORS MILL RD TO US 158	2	2 2WU	NO	NO	NO	1.8	18	*	360	36	3.60		500	1,790		120	19,651		11,800	20							100	100	1.8
022CPT.01.04.20371.1	Gates 3	SR1302 GATES BANK RD	SR1304 WILLEYTON RD TO NC37	3	2 2WU	NO	NO	NO	1.55	18	*	310	31	3.10	16,368		1,496		100				20							100	100	1.6
022CPT.01.04.20371.1	Gates 4	SR1313 SAUNDERSTOWN RD	SR1318 MIDDLE SWAMP RD TO DEAD END	4	2 2WU	NO	NO	NO	0.77	20	*	154	15	1.54		200	835		56		9,160	2,750	25							100	100	0.8
022CPT.01.04.20371.1	Gates 5	SR1327 PARKERS FORK RD	SR1305 UNION BRANCH RD TO SR1328 PARKERS CHURCH RD	5	2 2WU	NO	NO	NO	2.03	20	*	406	41	4.06		300	2,209		148				20							100	100	2.0
022CPT.01.04.20371.1	Gates 6	SR 1428 BOSLEY RD	NC 32 TO SR 1429 SUGAR RUN RD	4	2 2WU	NO	NO	NO	0.38	19	*	76	8	0.76		500	441		30		4,896	1,500	20							100	100	0.4
022CPT.01.04.20371.1	Gates 7	SR 1436 COSTEN RD	SR 1405 BEAMON RD TO NC 32	2 :	2 2WU	NO	NO	NO	0.63	18	*	126	13	1.26		200	608		41	6,653		4,000	20							100	100	0.6
TOTAL FOR	PROJ NO. 2022	22CPT.01.04.20371.1				<u> </u>	T		7.16		*	1,432	144	14.32	16,368	1,700	7,379	1	495	26,304	14,056	20,050	125					1	T	600	600	7.2
			I	1 1	l	l	1	I	, ,,10						1 20,000	2,700		<u> </u>		23,304			1 123	_ I					<u> </u>		<u> </u>	
	GRAND TO	OTAL							12.33		1	2,466	247	24.66	93,704	9,400	7,379	7,741	959	26,304	14.056	20,050	625	570	4,000	670	4	4	670	700	700	12.4

				THERMO	Ρl	. A :	ST	IC A	ND	PAI	NT	Q	UANT	ITIES	5						
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	TYPE	SURFACE TESTING	WARM MIX ASPHALT REQUIRED	MATERIAL TRANSFER VEHICLE REQUIRED			ADV/GEN WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	THERMO PAVEMENT MARKING LINES (6", 90 MILS) WHITE	·	LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	GENERIC PAVEMENT MARKING ITEM, THERMO HOT SPRAY LINES (4" 55 MILS) WHITE	MILS) YELLOW	GENERIC PAVEMENT MARKING ITEM, NON-CAST IRON SNOWPLOWABLI PAVEMENT MARKER
											MI	FT	SF	LS	LF	LF	LF	LF	LF	LFT	EA
2022CPT.01.04.10371.	.1 Gates	1	US158	US13 TO US158 ALT	1	2	2WU	NO	NO	YES	5.17	25	518	1	55,629	34,122	55,629	34,122			342
									,				1	,		T	T				
TOTAL FO	OR PROLING.	2022CPT	T.01.04.10371.1								5.17		518	*	55,629	34,122	55,629	34,122			342
																89,751		,751			1
2022CPT.01.04.20371.		2	SR1113 WHITE OAK RD	SR1118 TAYLORS MILL RD TO US 158	2	2	2WU	NO	NO	NO	1.8	18	80	*			19,368	23,760	19,368	11,880	
2022CPT.01.04.20371.	.1 Gates	3	SR1302 GATES BANK RD	SR1304 WILLEYTON RD TO NC37	3	2	2WU	NO	NO	NO	1.55	18		*			16,678	10,230	16,678	10,230	
2022CPT.01.04.20371.	.1 Gates	4 5	SR1313 SAUNDERSTOWN RD	SR1318 MIDDLE SWAMP RD TO DEAD END	4	2	2WU	NO	NO	NO	0.77	20	80	*			8,285	10,164	8,285	5,082	
2022CPT.01.04.20371.	.1 Gates	5	SR1327 PARKERS FORK RD	SR1305 UNION BRANCH RD TO SR1328 PARKERS CHURCH RD	5	2	2WU	NO	NO	NO	2.03	20	256	*			21,843	13,398	21,843	13,398	
2022CPT.01.04.20371.	.1 Gates	6	SR 1428 BOSLEY RD	NC 32 TO SR 1429 SUGAR RUN RD	4	2	2WU	NO	NO	NO	0.38	19	80	*			4,089	5,016	4,089	2,508	
2022CPT.01.04.20371.	.1 Gates	7	SR 1436 COSTEN RD	SR 1405 BEAMON RD TO NC 32	2	2	2WU	NO	NO	NO	0.63	18	80	*			6,779	8,316	6,779	4,158	
																					1
TOTAL FO	OR PROLNO	2022007	T.01.04.20371.1								7.16		576	*			77,042	70,884	77,042	47,256	1
TOTALIO			1.01.07.203/1.1														147,926		124,298		1
	GRAND	TOTAL									12.33		1,094	1	55,629	34,122	132,671	105,006	77,042	47,256	342
	GIVAND	IOIAL														89,751	237	7,677	124	298	1



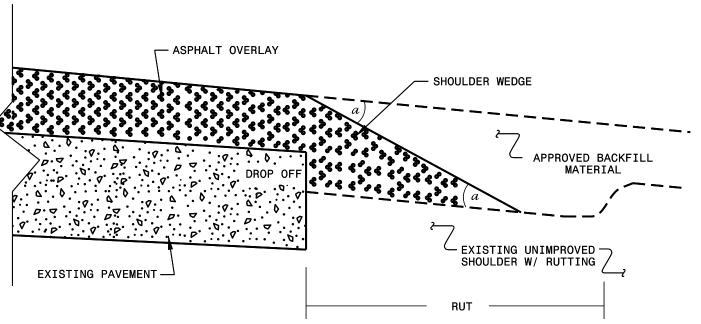
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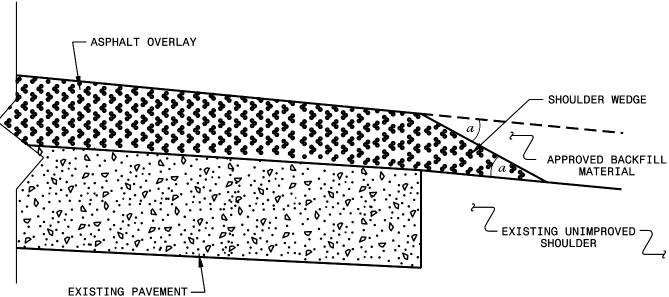
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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 ANGLE = 30°

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

SHOULDER WEDGE DETAILS

ORIGINAL B	/:T.SPELL	DATE:_	7-19-11
MODIFIED BY	/:	DATE: _	10/16/12
CHECKED BY		DATE: _	
ET! E 00E0			

SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

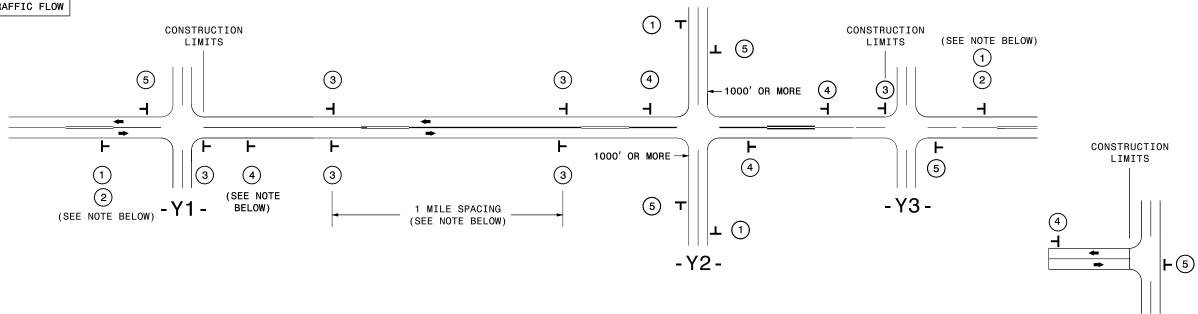
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TEE INTERSECTION

SIGNING FOR RESURFACING PROJECTS

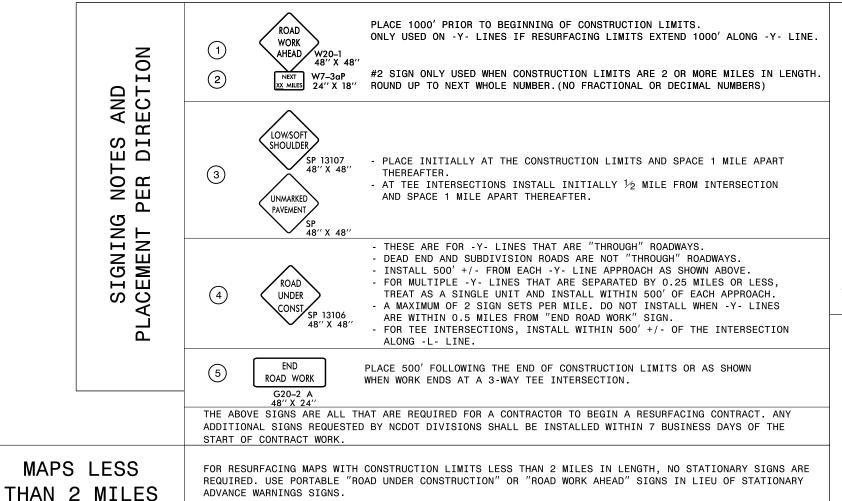
LEGEND - STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING



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

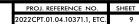
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



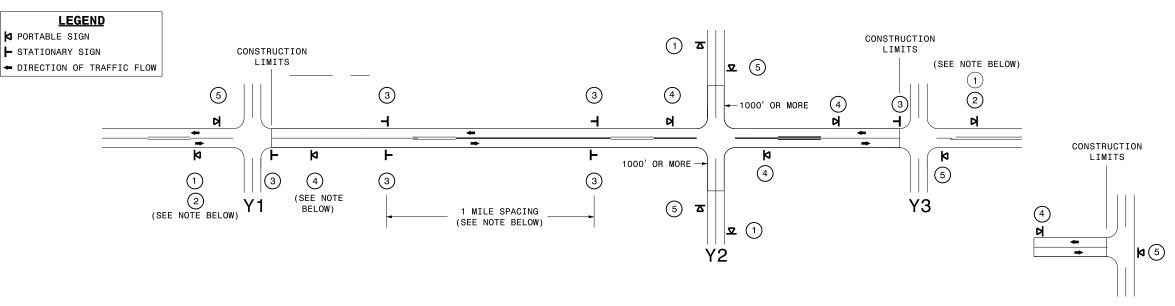
PLACED 500' IN ADVANCE OF FLAGGER.



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



SIGNING FOR ASPHALT SURFACE TREATMENT



MAINLINE (-L-) SIGNING

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

FOR AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY

"LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN

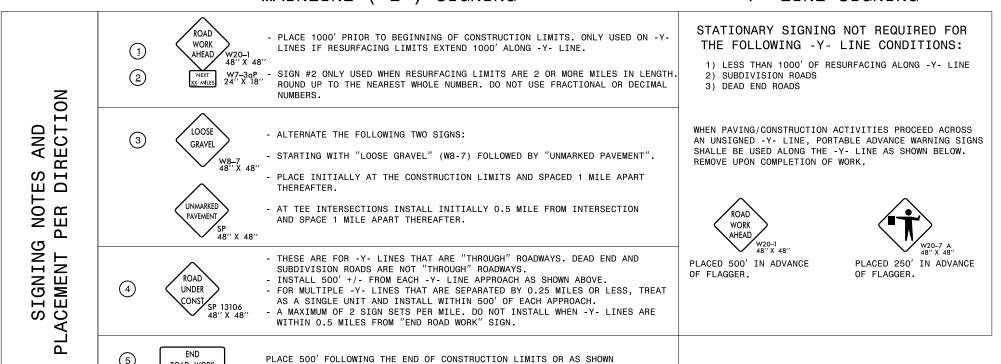
MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.

ROAD WORK

G20-2 A 48" X 24"

START OF CONTRACT WORK.

-Y- LINE SIGNING



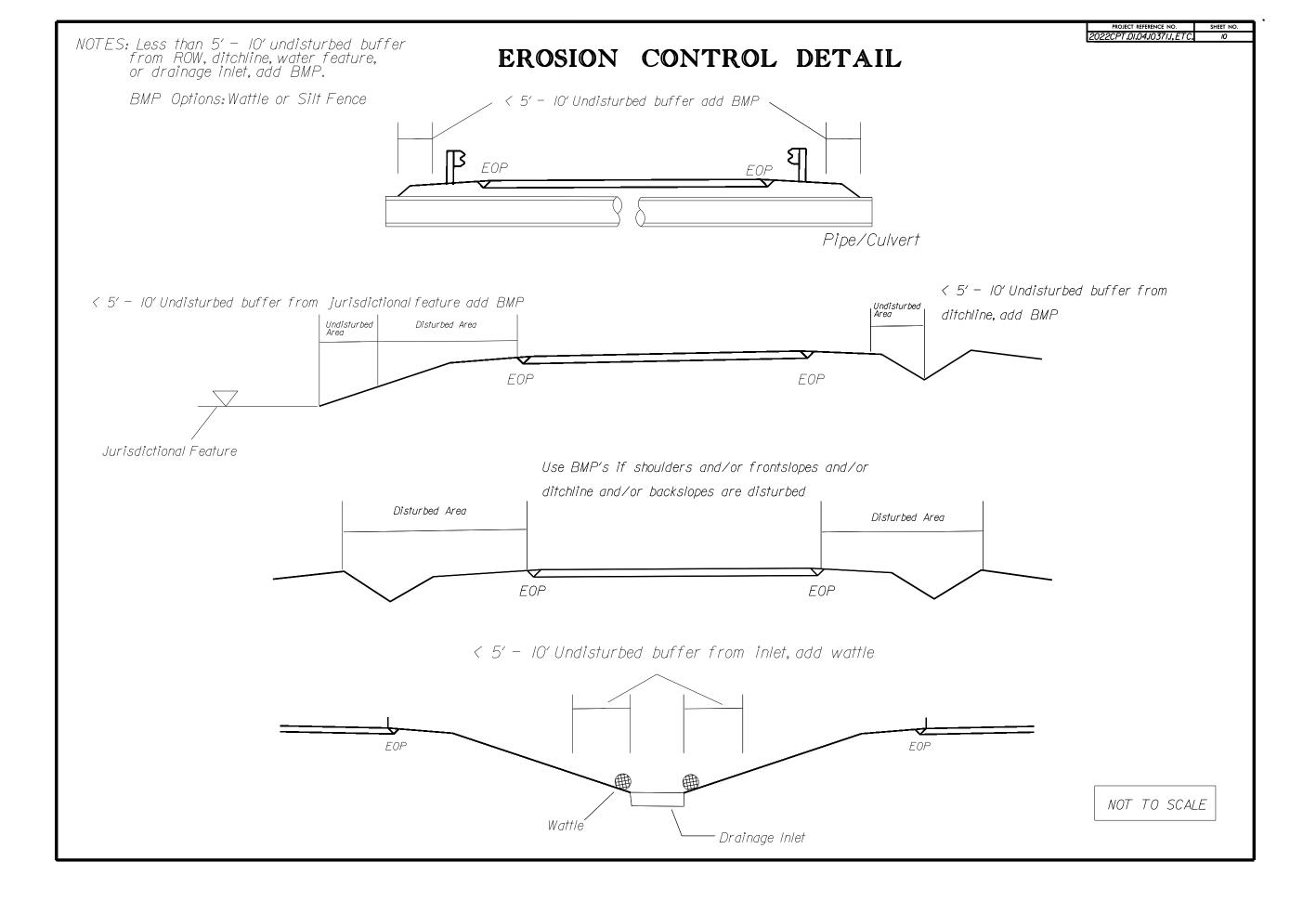


ADVANCE WARNING SIGNS 2-LANE ROADWAY ASPHALT SURFACE TREATMENT

TEE INTERSECTION

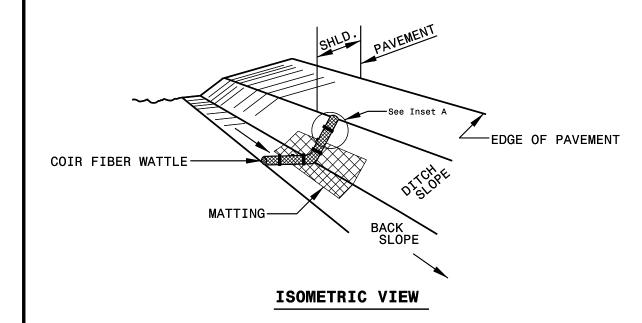
MAPS LESS

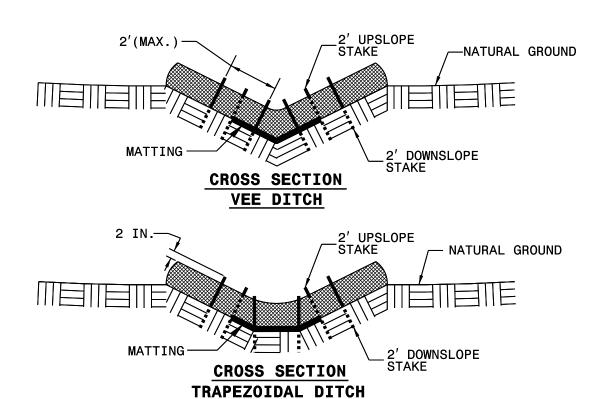
THAN 2 MILES



PROJECT REFERENCE NO. SHEET NO. 2022CPT.0I.04J037IJ.ETC. II

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.

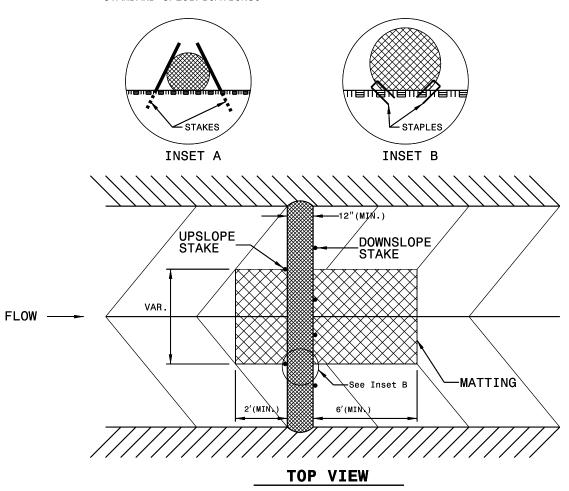
 $\underline{\text{ONLY}}$ INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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.



PROJECT REFERENCE NO. SHEET NO.

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 HOW ZONES.