

PROJECT REFERENCE NO.	SHEET NO.
2021CPT.03.12.10711, ETC.	1

# Pender County

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12, 13, 17	3

## Pender County 4-9

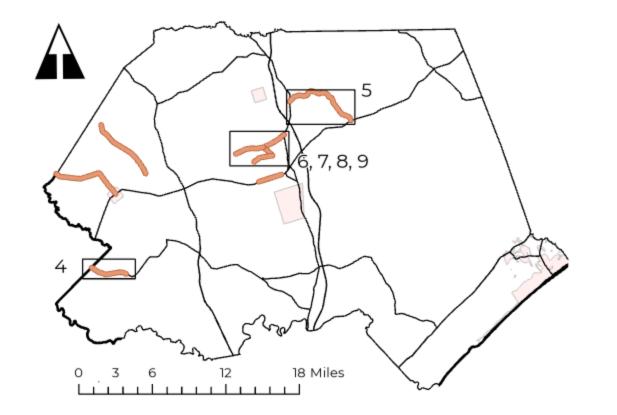


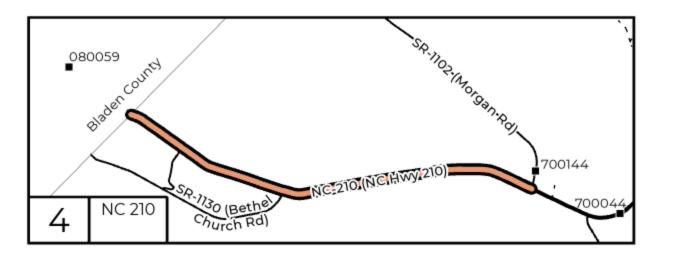
Road Section - - - Municipality Road

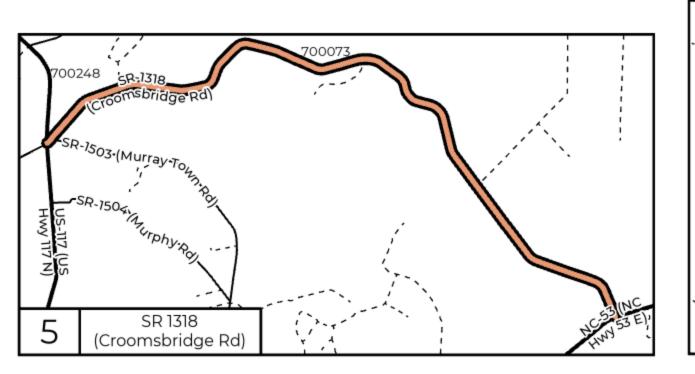
---- State Maintained Road

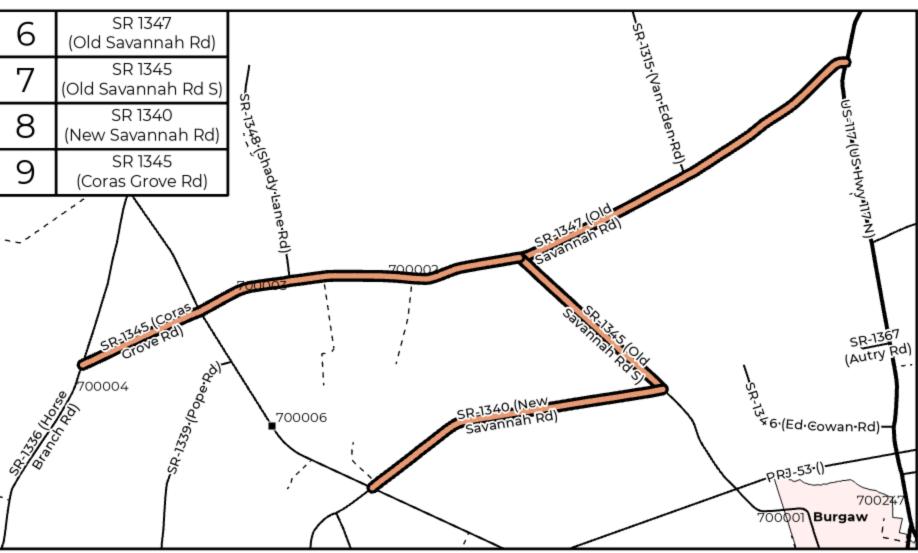
Legend

■ Bridge

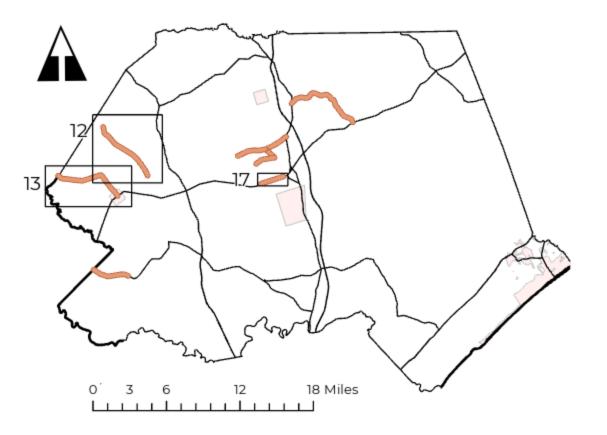


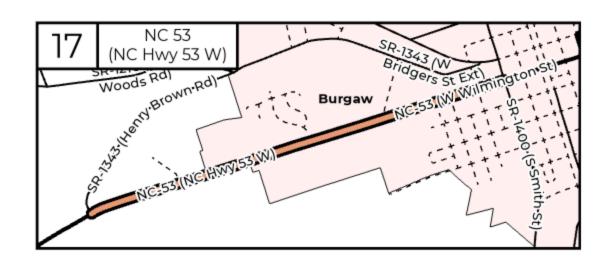


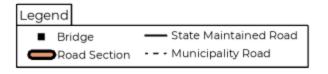




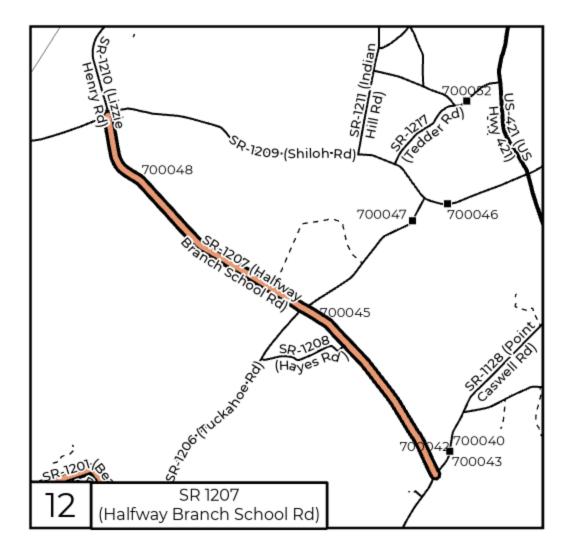
## Pender County 12, 13, 17

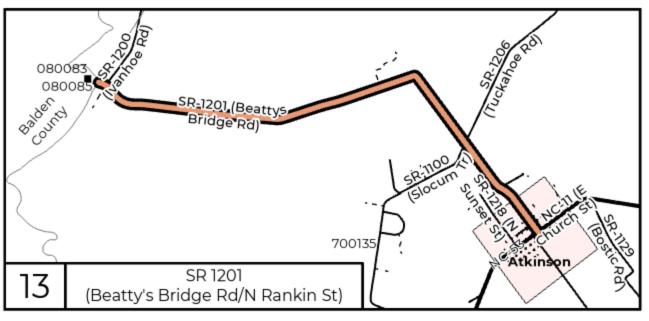


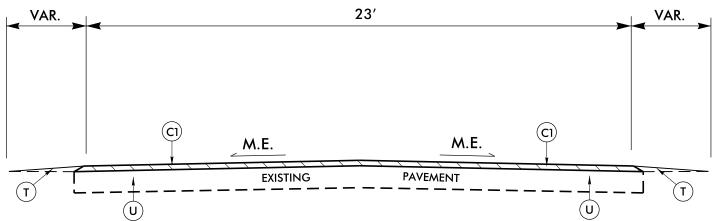




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2021CPT.03.12.10711, ETC.	3

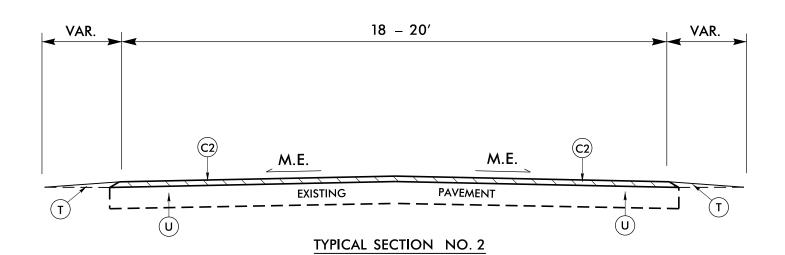






#### TYPICAL SECTION NO. 1

MAP NO. 4 NC 210 MP 47.81 – MP 50.83



	PAVEMENT SCHEDULE
C1	PROP. APPROX. $11\!\!\!/2$ " DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
C2	PROP. APPROX. 1½ DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD.
С3	PROP. APPROX. 1" DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ.YD.
F1	ASPHALT SERVICE TREATMENT - #67 MAT COAT (GRANITE) STONE
R1	EXISTING CONCRETE BRIDGE RAIL
Т	EARTH MATERIAL (SHOULDER RECONSTRUCTION)
U	EXISTING PAVEMENT
V1	MILLING ASPHALT PAVEMENT, 1½" DEPTH
V2	MILLING ASPHALT PAVEMENT, 1" DEPTH

PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE. SEE SHOULDER WEDGE DETAIL.

MAP NO. 5 SR 1318 (CROOMSBRIDGE RD.) MP 0.00 – MP 3.46 MP 3.52 – MP 6.60 SEE ALSO TYPICAL NO. 3

(V1) NOTES: MAP NO. 5 MILL  $1\frac{1}{2}$ " FOR FLOODPLAIN FROM MP 0.00 - MP 1.11 AND FROM MP 2.10 - MP 5.23

MILL A SINGLE LANE AND PAVE BACK BY THE END OF EACH WORK DAY. MAP NO. 6 SR 1347 (OLD SAVANNAH RD.) MP 0.00 – MP 2.00

MAP NO. 7 SR 1345 (OLD SAVANNAH RD. S.) MP 2.39 – MP 3.41

MAP NO. 8 SR 1340 (NEW SAVANNAH RD.) MP 0.00 – MP 1.65 MAP NO. 9 SR 1345 (CORAS GROVE RD.) MP 0.00 – MP 2.39

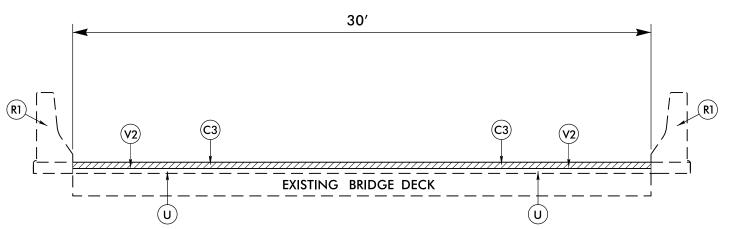
 $(v_1)$  NOTES: MAP NO. 9 MILL 11/2" FOR FLOODPLAIN FROM MP 0.78 - MP 1.02 AND FROM MP 1.86 - MP 2.07

MILL A SINGLE LANE AND PAVE BACK BY THE END OF EACH WORK DAY.

MAP NO. 13 SR 1201 (BEATTY'S BRIDGE RD./N. RANKIN ST.) MP 0.00 – MP 5.90

28-0CT-2020 09:29 S:\Division Resurfacing\Resurfacing Data\2021

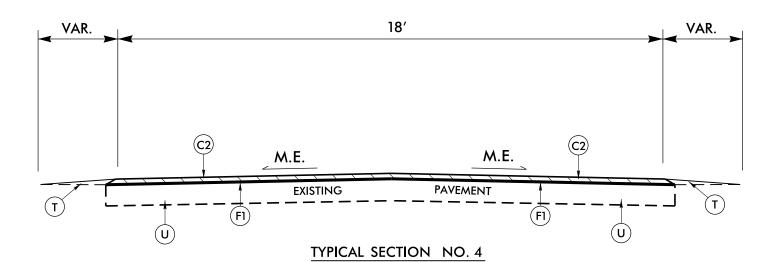
PROJECT REFERENCE NO. SHEET NO. 2021CPT.03.12.10711, Etc. 5



#### TYPICAL SECTION NO. 3

MAP NO. 5 SR 1318 (CROOMSBRIDGE RD.) PENDER BRIDGE #73 MP 3.46 – MP 3.52

NOTES: MILL A SINGLE LANE AND PAVE BACK
BY THE END OF EACH WORK DAY



C2 1½" S9.5B

C3 1" S9.5B

F1 AST-MAT COAT #67 (GRANITE STONE)

R1 EXISTING CONCRETE BRIDGE RAIL

T EARTH MATERIAL SHOULDER RECONST.

U EXISTING PAVEMENT

V2 MILLING 1" DEPTH

PAVEMENT

SCHEDULE

PAVEMENT EDGE SLOPES ARE 1:1, EXCEPT FINAL SURFACE COURSE. SEE SHOULDER WEDGE DETAIL.

MAP NO. 12 SR 1207 (HALFWAY BRANCH SCHOOL RD.) MP 0.00 – MP 5.58 NO ASPHALT WORK PENDER BRIDGE #48

#### 2018 ROADWAY ENGLISH STANDARD DRAWINGS

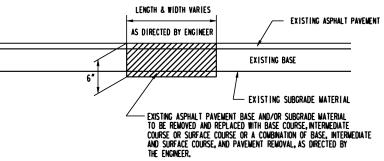
EFF.01-16-2018 REV.

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N.C.Department of Transportation — Raleigh, N.C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

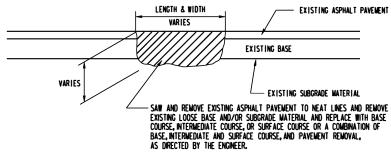
STD.NO. TITLE
DIVISION 8 - INCIDENTALS

862.01 Guardrail Placement 862.02 Guardrail Installation

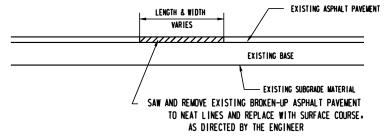
Z8-UCI-ZUZU US:SZ S:\Division Resurfacing\Resurfacing Da



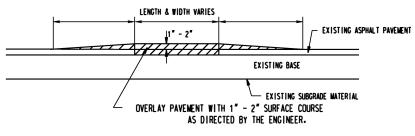
DETAIL NO. 1



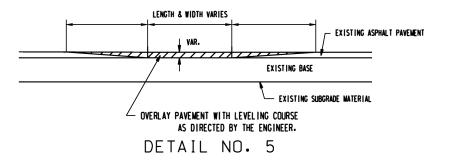
DETAIL NO. 2



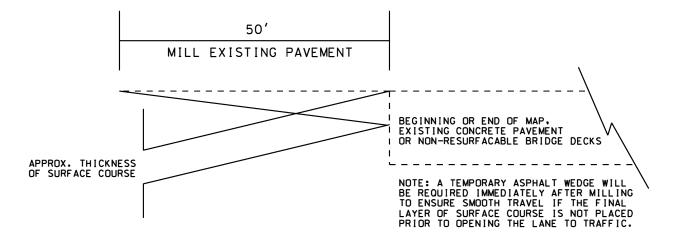
DETAIL NO. 3



DETAIL NO. 4



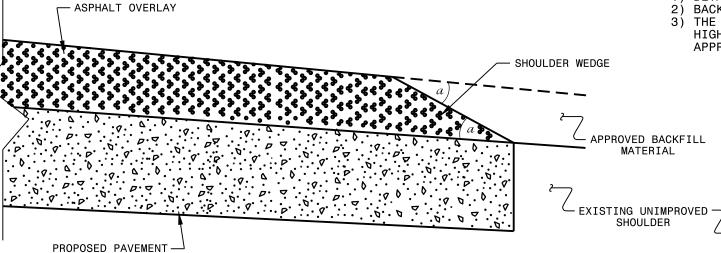
PROJECT REFERENCE NO. SHEET NO. 2021CPT.03.12.10711 6 \_\_6



DETAIL FOR MILLING & INCIDENTAL MILLING PAY ITEMS:
MAY BE USED AT THE BEGINNING & END OF MAPS
AND AT APPROACH & TRAILING ENDS OF BRIDGES

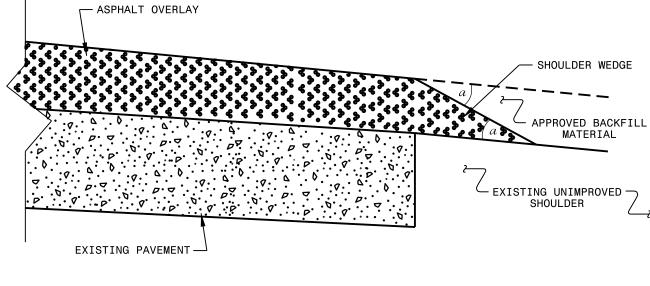
1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
2) BACKFILL SHOULDER WITH APPROVED MATERIAL.

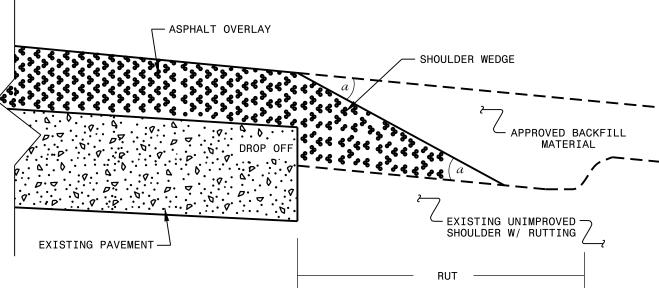
3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THÉ ENGINEER.



#### 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 BY:	T.SPELL DATE	7-19-11
MODIFIED BY:		2/2/16
CHECKED BY:	DATE:	
FILE SPEC	s:usr/details/stand/shoulderwedg	edetail.dgn

## SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

77-JUN-2018 13:52 S:\Contracts\Contracts\IResur o\_porter AT CSD-292592

PROJECT NO.	SHEET NO.	TOTAL NO.
.03.12.10711, 2021CPT.03.	8	
2021CPT.03.12.10712,		

#### SUMMARY OF QUANTITIES

										0106000000-	1220000000-	1245000000-E	12970	00000-E	1330000000-E	1519000000-	1520000000-E	1523000000-	E 1575000000-	E 1775500000-E	1838000000-E	18800	00000-E	188000000-E
PROJECT NO	COUNT	MAP ROUTE	DESCRIPTION	TYP	LANES LANE	FINAL	WARM	LENGTH	WIDTH	BORROW	INCIDENTAL	SHOULDER	1.5"	1"	INCIDENTAL	SURFACE	LEVELING	SURFACE	ASPHALT	ASPHALT	EMULSION	PATCHING	PATCHING	PATCHING
	Υ	NO		NO	TYPE	SURFACE	MIX			EXCAVATION	STONE BASE	RECONSTRUCTION	MILLING	MILLING	MILLING	COURSE,	COURSE,	COURSE,	BINDER FOR	SURFACE	FOR ASPHALT	EXISTING	EXISTING	EXISTING
						TESTING	ASPHALT									S9.5B	S9.5B	S9.5C	PLANT MIX	TREATMENT,	SURFACE	PAVEMEN	PAVEMENT	PAVEMENT
						REQUIRED	REQUIRED													MATCOAT,	TREATMENT	T (MILL)	119.0C	(FULL
																				#67 GRANITE			(MILL)	DEPTH)
			EDOM CD 1103 (MODCANI DD )	_				MI	FT	СҮ	TON	SMI	SY	SY	SY	TON	TON	TON	TON	SY	GAL	TON	TON	TON
			FROM SR 1102 (MORGAN RD.) TO BLADEN COUNTY																					
2021CPT.03.12.10711	Pender	4 NC 210	[MP 47.81 - MP 50.83]	1	2 2WU	NO	NO	3.02	23	285	60	6.04						4,140	248			150		
		L FOR MAP NO. 4	[	† <u> </u>				3.02		285	60	6.04						4,140	248			150		
TOTAL	FOR PRO	J NO. 2021CPT.03.12.10711						3.02		285	60	6.04						4,140	248			150		
TOTAL		, 110. 20210. 1.03.12.10711																						
			FROM NC 53 TO US 117						1															
2021CPT.03.12.20711	Pender	5 SR 1318 (CROOMSBRIDGE ROAD)	[MP 0.00 - MP 6.60]	2, 3	2 2WU	NO	NO	6.6	20	615	150	13.20	47,152	1,056	510	6,505			436				800	
2021011100112120711		L FOR MAP NO. 5	[ e.ee e.ee]	2,5	2 20			6.6		615	150	13.20		1,056		6,505			436				800	
			FROM SR 1345 (CORAS GROVE										1											
			ROAD) TO US 117																					
2021CPT.03.12.20711	Pender	6 SR 1347 (OLD SAVANNAH ROAD)	[MP 0.00 - MP 2.00]	2	2 2WU	NO	NO	2	20	190	50	4.00			530	1,948	100		137				400	
	TOTA	L FOR MAP NO. 6						2		190	50	4.00			530	1,948	100		137				400	
			FROM SR 1345 (CORAS GROVE																					
			ROAD) TO SR 1340																					
			(NEWSAVANNAH ROAD) [MP																					
2021CPT.03.12.20711		7 SR1345 (OLD SAVANNAH ROAD S.)	2.39 - MP 3.41]	2	2 2WU	NO	NO	1.02	18	100	10	2.00			120	877			59				350	
	TOTA	L FOR MAP NO. 7						1.02		100	10	2.00			120	877			59				350	
			FROM SR 1345 (OLD SAVANNAH	1																				
			ROAD S.) TO SR 1332																					
			(PENDERLEA HWY)	_	_																			
2021CP1.03.12.20711		8 SR 1340 (NEW SAVANNAH ROAD)	[MP 0.00 - MP 1.65]	2	2 2WU	NO	NO	1.65	19	160	70	3.30			340	1,544			103				350	1
	IOIA	L FOR MAP NO. 8	FROM SR 1336 (HORSE RRANGH		-	+		1.65	1	160	70	3.30			340	1,544			103			-	350	1
			FROM SR 1336 (HORSE BRANCH																					
			ROAD) TO SR 1347 (OLD	,																				
2021 CDT 02 12 20711	Dondor	9 SR 1345 (CORAS GROVE ROAD)	SAVANNA ROAD) [MP 0.00 - MP 2.39]	2	2 2WU	NO	NO	2.39	18	230	105	4.80	4,800		300	2,105			141				350	
2021CF1.03.12.20711		L FOR MAP NO. 9	2.59]		2 2WU	NO	INO	2.39	10	230	105	4.80	4,800		300	2,105			141				350	1
	1017	ETOKWIAI NO. 5	FROM SR 1128 (POINT CASWELL		<del>                                     </del>	-		2.33		230	103	4.00	4,000		300	2,103			141				330	1
		SR 1207 (HALFWAY BRANCH	ROAD) TO SR 1209 (SHILOH	-																				
2021CPT.03.12.20711	Pender	-	ROAD) [MP 0.00 - MP 5.58]	4	2 2WU	NO	NO	5.58	18	530	140	11.20			540	4,913			329	58,925	23,570		200	
		FOR MAP NO. 12	,,,					5.58		530	140	11.20			540	4,913			329	58,925	23,570		200	
			FROM BLADEN COUNTY TO NC													,				,	,			
		SR 1201 (BEATTY'S BRIDGE	53																					
2021CPT.03.12.20711	Pender	13 ROAD/N. RANKIN STREET)	[MP 0.00 - MP 5.90]	2	2 2WU	NO	NO	5.9	20	560	155	11.80			280	5,850			392					450
	TOTAL	FOR MAP NO. 13						5.9		560	155	11.80			280	5,850			392					450
TOTAL	FOR PRO	J NO. 2021CPT.03.12.20711						25.14		2,385	680	50.30	51,952	1,056	2,620	23,742	100		1,597	58,925	23,570		2,450	450
			FROM SR 1400 (S. SMITH ST.) TO	)																				
			SR 1343 (HENRY BROWN RD.)																					
2021CPT.03.12.10712	Pender	17 NC 53	[MP 18.87 - MP 20.84]	N/A	2 2WU	NO	NO	1.97	23													300		
	TOTAL	FOR MAP NO. 17						1.97														300		
TOTAL	FOR PRO	J NO. 2021CPT.03.12.10712		-		1	<u> </u>	1.97	<u> </u>					-								300	<u> </u>	-
					<u> </u>	1	1		<u> </u>	1		1	1	<u> </u>	1		1	<u> </u>	1	1		1		
		RAND TOTAL						30.13		2,670	740	56.34	51,952	1,056	2,620	23,742	100	4,140	1,845	58,925	23,570	450	2,450	450
	9	IVIAL												-										

PROJECT NO.	SHEET NO.	TOTAL NO.
T.03.12.10711, 2021CPT.03.1	9	
2021CPT.03.12.10712,		

## SUMMARY OF QUANTITIES

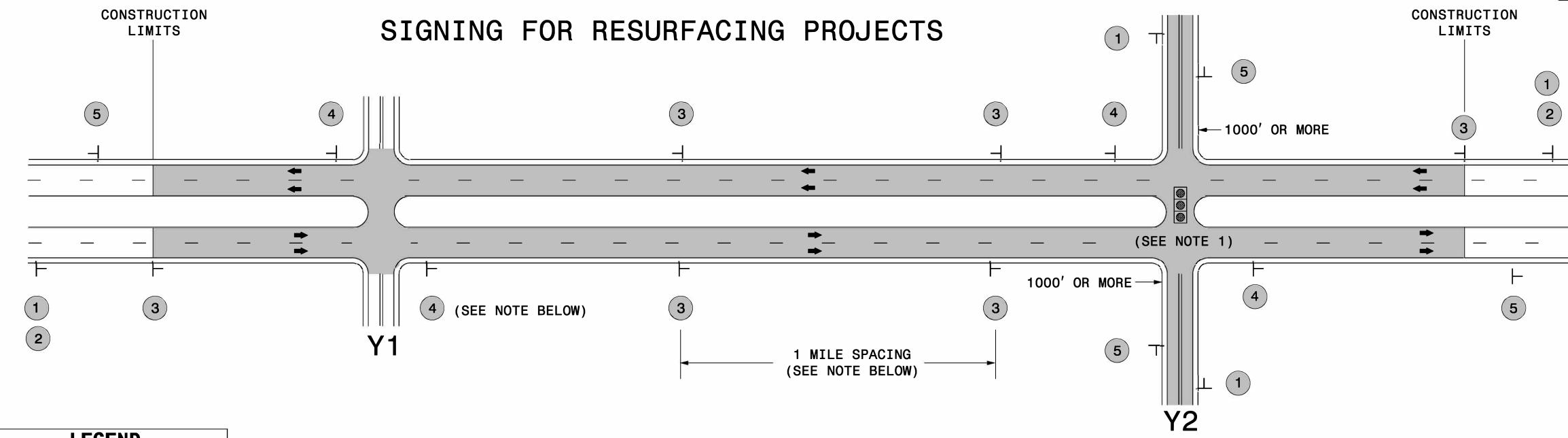
	I	T		I==1: · · ·	.1		1	I	.							_						E 6084000000-E			_
	OUNT MAP Y NO		DESCRIPTION	NO LANES		SURFACE TESTING	WARM MIX ASPHALT REQUIRED		WIDTH	GUARDRAIL END UNITS, TYPE TL-3	REMOVE & REPLACE EXISTING GUARDRAIL	GUARDRAIL PRE-FAB POST	TEMPORARY SILT FENCE	STONE FOR EC CLASS B		TEMPORARY MULCHING	SEED FOR TEMPORARY SEEDING	FERTILIZER FOR TEMPORARY SEEDING	MATTING FOR EROSION CONTROL	1/4" I HARDWARE CLOTH	WATTLE	SEED & MULCHING	SEED FOR REPAIR SEEDING	FERTILIZER FOR REPAIR SEEDING	FOR EROSIO CONTROL
								MI	FT	EA	LF	F.A.	15	TON	TON	ACR	LDC	TON	SY	15	15	AC	LB	TON	
			FROM SR 1102 (MORGAN RD.)	+ + -				IVII	FI	EA	LF	EA	LF	TON	ION	ACK	LBS	TON	31	LF	LF	AC	LD	ION	EA
			TO BLADEN COUNTY																						
2021CPT.03.12.10711 P	ender 4	NC 210	[MP 47.81 - MP 50.83]	1 2	2WU	NO	NO	3.02	23	4.00	325.00	6.00	302	76	76	3.02	151	0.76	20	151	50	2.20	151	0.76	3
•	TOTAL FOR	MAP NO. 4						3.02		4.00	325.00	6.00	302	76	76	3.02	151	0.76	20	151	50	2.20	151	0.76	3
TOTAL FO	R PROJ NO.	2021CPT.03.12.10711						3.02		4.00	325.00	6.00	302	76	76	3.02	151	0.76	20	151	50	2.20	151	0.76	3
T-		T	FROM NC F2 TO US 117	T I		1	1	1			I	I								1	1		I		Т
2021 CPT 03 12 20711 P	ender 5	SR 1318 (CROOMSBRIDGE ROAD)	FROM NC 53 TO US 117 [MP 0.00 - MP 6.60]	2,3 2	2WU	NO	NO	6.6	20				660	165	165	6.60	330	1.65	40	330	100	4.80	330	1.65	2
		MAP NO. 5	[WIF 0.00 - WIF 0.00]	2, 3 2	2000	NO	INO	6.6	20				660	165	165	6.60	330	1.65	40	330	100	4.80	330	1.65	2
			FROM SR 1345 (CORAS GROVE		1		1	T	1											1					<u> </u>
			ROAD) TO US 117																	1					
2021CPT.03.12.20711 P	ender 6	SR 1347 (OLD SAVANNAH ROAD)	[MP 0.00 - MP 2.00]	2 2	2WU	NO	NO	2	20				200	50	50	2.00	100	0.50	20	100	30	1.45	100	0.50	2
	TOTAL FOR	MAP NO. 6						2					200	50	50	2.00	100	0.50	20	100	30	1.45	100	0.50	2
			FROM SR 1345 (CORAS GROVE ROAD) TO SR 1340 (NEWSAVANNAH ROAD) [MP																						
2021CPT.03.12.20711 P	ender 7	SR1345 (OLD SAVANNAH ROAD S.)		2 2	2WU	NO	NO	1.02	18				102	26	26	1.02	51	0.30	10	51	20	0.73	51	0.30	2
		MAP NO. 7	-					1.02					102	26	26	1.02	51	0.30	10	51	20	0.73	51	0.30	2
			FROM SR 1345 (OLD SAVANNAH ROAD S.) TO SR 1332 (PENDERLEA HWY)																						
2021CPT.03.12.20711 P	ender 8	SR 1340 (NEW SAVANNAH ROAD)	[MP 0.00 - MP 1.65]	2 2	2WU	NO	NO	1.65	19				165	41	41	1.65	83	0.40	20	85	30	1.20	83	0.40	2
	TOTAL FOR	MAP NO. 8						1.65					165	41	41	1.65	83	0.40	20	85	30	1.20	83	0.40	2
			FROM SR 1336 (HORSE BRANCH ROAD) TO SR 1347 (OLD SAVANNA ROAD) [MP 0.00 - MP																						
2021CPT.03.12.20711 P			2.39]	2 2	2WU	NO	NO	2.39	18				239	60	60	2.39	120	0.60	20	120	40	1.70	120	0.60	2
	TOTAL FOR	MAP NO. 9	EDOM SP 1129 (DOINT CASWELL	+ +				2.39	-				239	60	60	2.39	120	0.60	20	120	40	1.70	120	0.60	2
2021CPT.03.12.20711 P	ender 12	SR 1207 (HALFWAY BRANCH SCHOOL ROAD	FROM SR 1128 (POINT CASWELL ROAD) TO SR 1209 (SHILOH ROAD) [MP 0.00 - MP 5.58]		2WU	NO	NO	5.58	18	4.00	100.00		558	140	140	5.58	279		40	279	90	4.00	279	2.80	3
	TOTAL FOR	MAP NO. 12						5.58		4.00	100.00		558	140	140	5.58	279		40	279	90	4.00	279	2.80	3
2024 CDT 02 42 20744		SR 1201 (BEATTY'S BRIDGE ROAD/N. RANKIN STREET)	FROM BLADEN COUNTY TO NC 53		214/11	NO	NO	F 0	20				500	1.40	140	5.00	205	1.50	40	205	00	4.20	205	1.50	2
2021CPT.03.12.20711 P		MAP NO. 13	[MP 0.00 - MP 5.90]		2WU	NO	NO	5.9 <b>5.9</b>	20				590 <b>590</b>	148 <b>148</b>	148 <b>148</b>	5.90 <b>5.90</b>	295 <b>295</b>	1.50 1.50	40 <b>40</b>	295 <b>295</b>	90 <b>90</b>	4.30 <b>4.30</b>	295 <b>295</b>	1.50 1.50	3 <b>3</b>
		2021CPT.03.12.20711						25.14		4.00	100.00		2,514	630	630	25.14	1,258	4.95	190	1,260	400	18.18	1,258	7.75	16
		T	<u> </u>																						<u> </u>
			FROM SR 1400 (S. SMITH ST.) TO SR 1343 (HENRY BROWN RD.)																						
2021CPT.03.12.10712 P		NC 53 MAP NO. 17	[MP 18.87 - MP 20.84]	N/A 2	2WU	NO	NO	1.97	23											1	<del>                                     </del>	+			+
		2021CPT.03.12.10712						1.97 1.97																	
.574216																									
	GRANI	TOTAL						30.13		8.00	425.00	6.00	2,816	706	706	28.16	1,409	5.71	210	1,411	450	20.38	1,409	8.51	19
			l	1	1			1	1	l	1		1	l	1		1	1	<u> </u>		L			1	

PROJECT NO.	SHEET NO.	TOTAL NO.
PT.03.12.10711, 2021CPT.03.12	10	
2021CPT.03.12.10712,		

# THERMOPLASTIC AND PAINT QUANTITIES 4413000000-E 4457000000-N 4685000000-E

								4457000000-N		0000-E	48100	00000-E	490000000-N	4905000000-N
PROJECT NO COUNTY MAP ROUTE NO	DESCRIPTION	TYP NO		TYPE	LENGTH	WIDTH	WORK ZONE ADVANCE/GE NERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	4" WHITE PAINT	4" YELLOW PAINT	YELLOW & YELLOW MARKERS	SNOW PLOWABLE MARKERS (Y/Y)
					MI	FT	SF	LS	LF	LF	LF	LF	EA	EA
	FROM SR 1102 (MORGAN RD.) TO BLADEN COUNTY							*						
2021CPT.03.12.10711 Pender 4 NC 210	[MP 47.81 - MP 50.83]	1	2	2WU		23	352		32,495	13,000				199
TOTAL FOR MAP NO. 4					3.02		352		32,495	13,000				199
TOTAL FOR PROJ NO. 2021CPT.03.12.10711					3.02		352	*	32,495	13,000 495				199
							<u> </u>		45,	495	<u> </u>		<u> </u>	
	FROM NC 53 TO US 117													
2021CPT.03.12.20711 Pender 5 SR 1318 (CROOMSBRIDGE ROAD)	[MP 0.00 - MP 6.60]	2	2	2WU	6.6	20	752				142,032	87,120	436	
TOTAL FOR MAP NO. 5					6.6		752				142,032	87,120	436	
	FROM SR 1345 (CORAS GROVE ROAD) TO US 117													
2021CPT.03.12.20711 Pender 6 SR 1347 (OLD SAVANNAH ROAD)	[MP 0.00 - MP 2.00]	2	2	2WU	2	20	224				43,040	26,400	132	
TOTAL FOR MAP NO. 6					2		224				43,040	26,400	132	
	FROM SR 1345 (CORAS GROVE ROAD) TO SR 1340 (NEWSAVANNAH													
2021CPT.03.12.20711   Pender   7   SR1345 (OLD SAVANNAH ROAD S.)	ROAD) [MP 2.39 - MP 3.41]	2	2	2WU		18	112	1			21,520	13,200	66	
TOTAL FOR MAP NO. 7	50014504045 (010 501/410111				1.02		112	-			21,520	13,200	66	
	FROM SR 1345 (OLD SAVANNAH ROAD S.) TO SR 1332 (PENDERLEA HWY)							*						
2021CPT.03.12.20711   Pender   8   SR 1340 (NEW SAVANNAH ROAD)	[MP 0.00 - MP 1.65]	2	2	2WU	1.65	19	192				35,293	21,648	108	
TOTAL FOR MAP NO. 8					1.65		192	1			35,293	21,648	108	
	FROM SR 1336 (HORSE BRANCH ROAD) TO SR 1347 (OLD SAVANNA			2	2.22	10	272				51.510	20.500	450	
2021CPT.03.12.20711   Pender   9   SR 1345 (CORAS GROVE ROAD)	ROAD) [MP 0.00 - MP 2.39]	2	2	2WU	2.39	18	272	<u> </u>			51,648	38,500	158	
TOTAL FOR MAP NO. 9	FROM SR 1128 (POINT CASWELL ROAD) TO SR 1209 (SHILOH ROAD)				2.39		272				51,648	38,500	158	
2021CPT.03.12.20711 Pender 12 SR 1207 (HALFWAY BRANCH SCHOOL ROAD	[MP 0.00 - MP 5.58]	4	2	2WU	5.58	18	640				120,512	73,920	370	
TOTAL FOR MAP NO. 12					5.58		640	1			120,512	73,920	370	
2021CPT.03.12.20711 Pender 13 SR 1201 (BEATTY'S BRIDGE ROAD/N. RANKIN S	FROM BLADEN COUNTY TO NC 53 T.) [MP 0.00 - MP 5.90]	2	2	2WU	5.9	20	672				126,968	77,880	390	
TOTAL FOR MAP NO. 13	[17] [17] [17] [17]			2 44 0	5.9	20	672	1			126,968	77,880 <b>77,880</b>	<b>390</b>	
					25.14		2,864	*			541,013	338,668	1,660	
TOTAL FOR PROJ NO. 2021CPT.03.12.20711							,			<del>!</del>		,681	,	
2021CPT.03.12.10712 Pender 17 NC 53	FROM SR 1400 (S. SMITH ST.) TO SR 1343 (HENRY BROWN RD.) [MP 18.87 - MP 20.84]		2	2WU	1.97	23		*						
TOTAL FOR MAP NO. 17					1.97									
TOTAL FOR PROJ NO. 2021CPT.03.12.10712					1.97			*						
			1	1 1		I	I	<u> </u>	I	1	I =	1	1	
GRAND TOTAL					30.13		3,216	1	32,495	13,000	541,013	338,668	1,660	199
			<u> </u>	1		<u> </u>	ļ	ļ	45,	495	8/9	,681	Ļ	ļ

PROJ. REFERENCE NO. 2021CPT.03.12.10711 ETC TCP-1

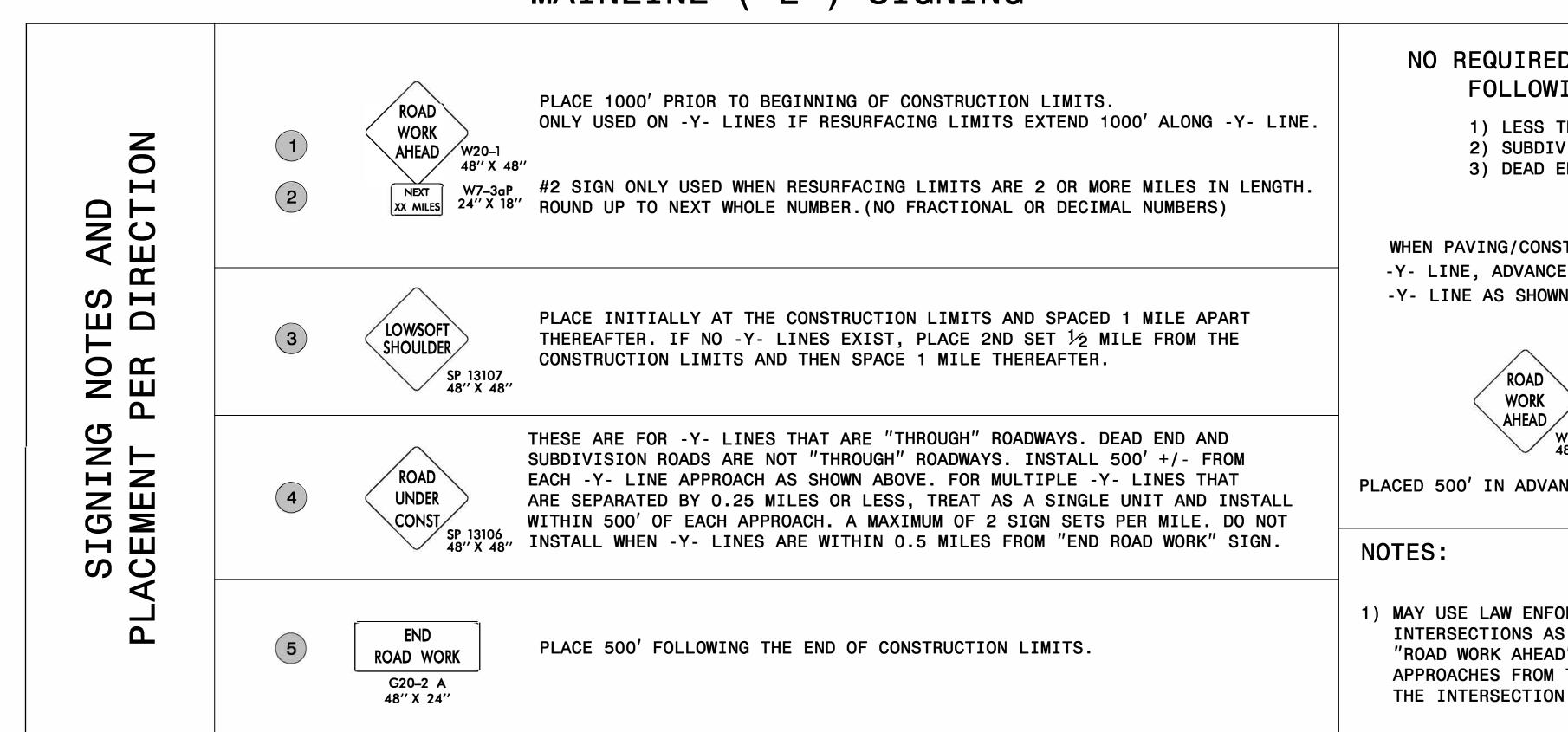


**LEGEND** ├ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW

## MAINLINE (-L-) SIGNING

## -Y- LINE SIGNING



## 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, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE

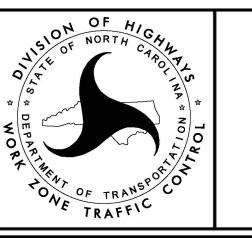
-Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.





PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

1) 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.



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

PROJ. REFERENCE NO. SHEET NO. 2021CPT.03.12.10711 ETC TCP-2

## SIGNING FOR RESURFACING PROJECTS



← DIRECTION OF TRAFFIC FLOW CONSTRUCTION CONSTRUCTION (SEE NOTE BELOW) LIMITS LIMITS **→** 1000′ OR MORE CONSTRUCTION 1000′ OR MORE → LIMITS (SEE NOTE - Y3 -5 1 MILE SPACING BELOW) (SEE NOTE BELOW) (SEE NOTE BELOW) - Y2 -

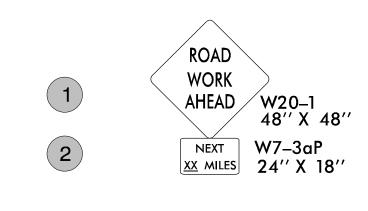
## TEE INTERSECTION

# MAINLINE (-L-) SIGNING

## -Y- LINE SIGNING

# IGNING NOTES AND EMENT PER DIRECTION

SO



PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS.
ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.

#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)



- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.
- AT TEE INTERSECTIONS INSTALL INITIALLY ½ MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.
- ROAD UNDER CONST SP 13106 48" X 48"
- 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.
- END ROAD WORK G20-2 A 48" X 24"

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.

MAPS LESS THAN 2 MILES 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

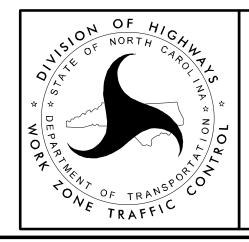
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



PLACED 500' IN ADVANCE OF FLAGGER.



PLACED 250' IN ADVANCE OF FLAGGER.

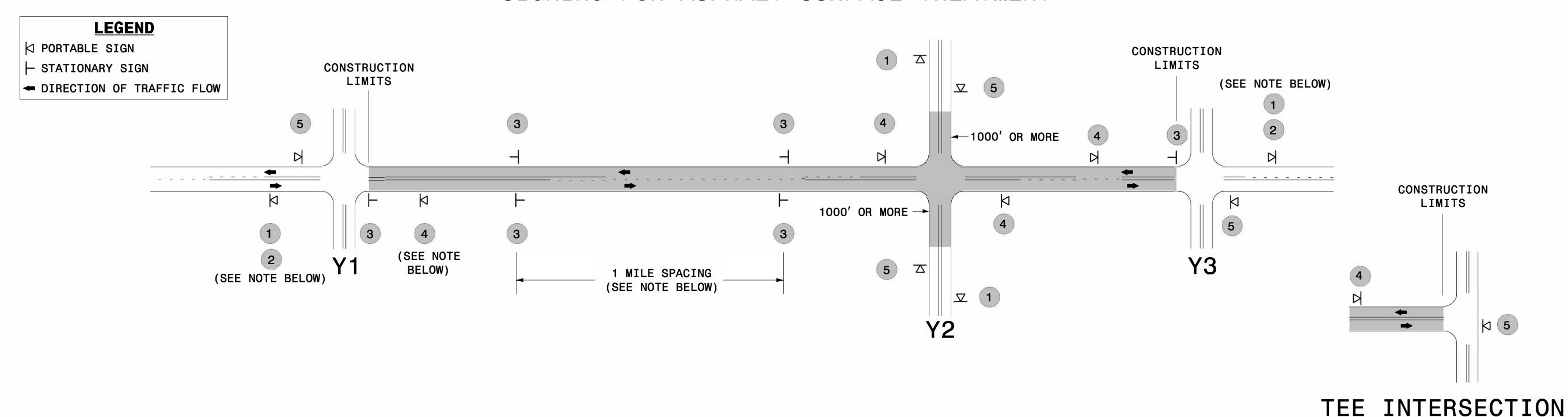


ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2-LANE ROADWAY
RESURFACING

 PROJ. REFERENCE NO.
 SHEET NO.

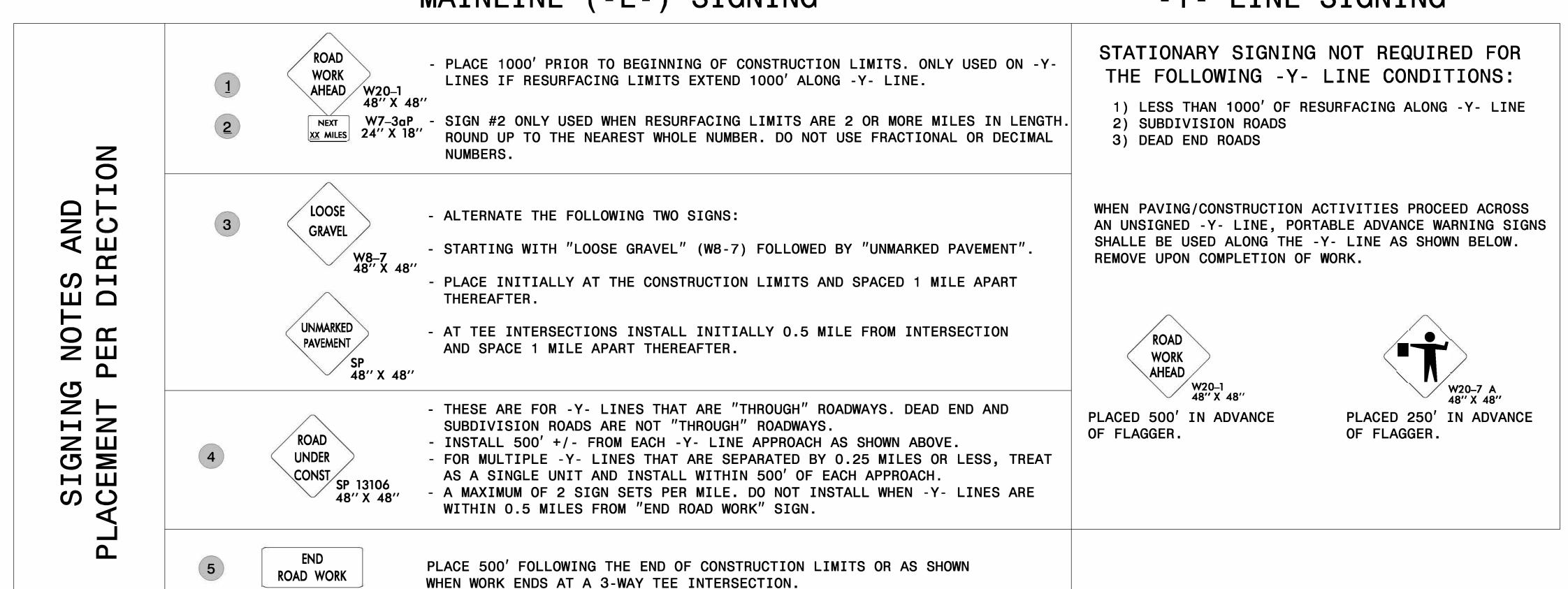
 2021CPT.03.12.10711 ETC
 TCP-3

## SIGNING FOR ASPHALT SURFACE TREATMENT



## MAINLINE (-L-) SIGNING

## -Y- LINE SIGNING





ADVANCE WARNING SIGNS
FOR
2-LANE ROADWAY
ASPHALT SURFACE TREATMENT

MUNWZIC\Resurfacing\2L2W & AST Resurfacing Deta

MAPS LESS THAN 2 MILES G20-2 A 48" X 24"

START OF CONTRACT WORK.

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.

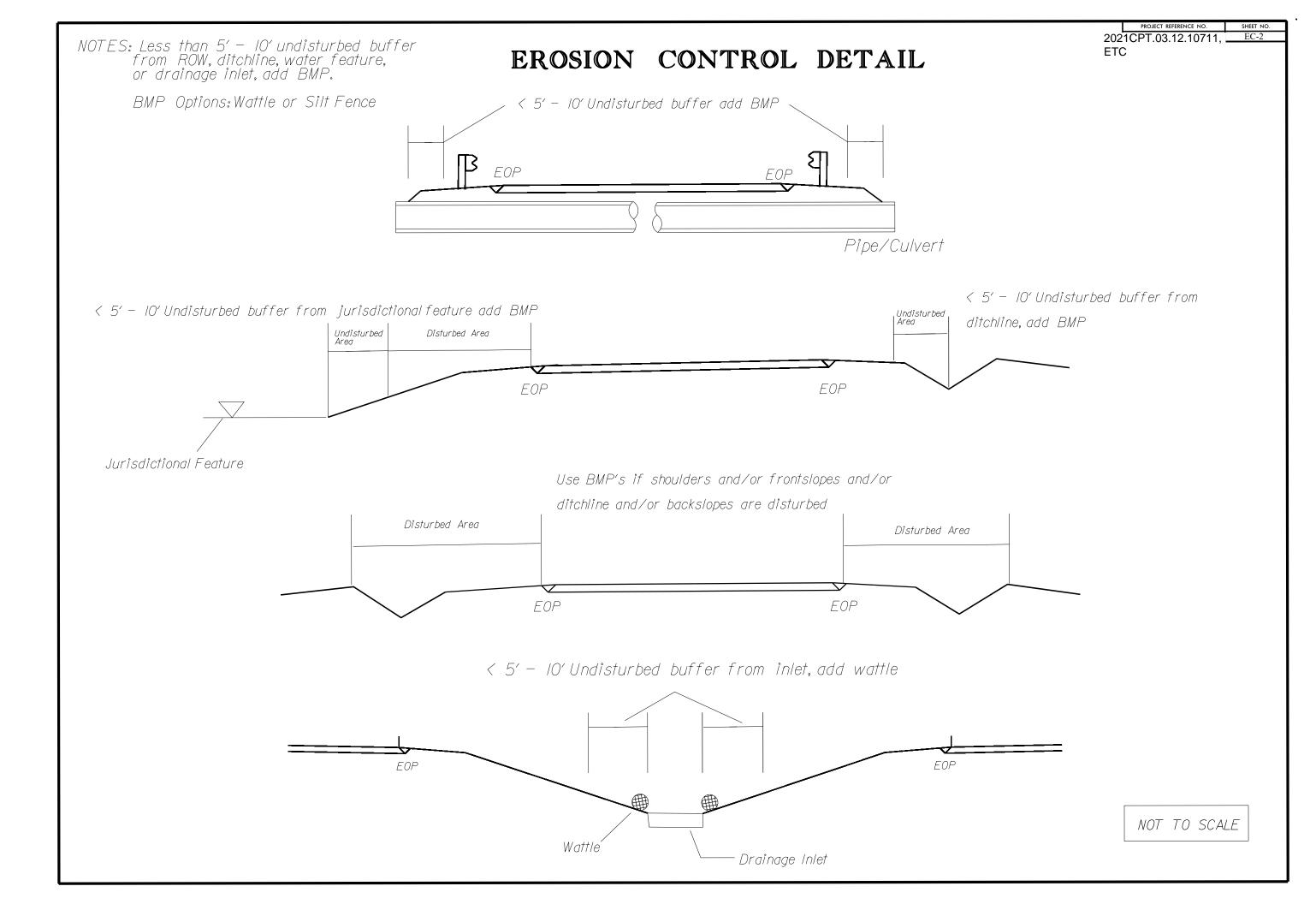
THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE

2021CPT.03.12.10711

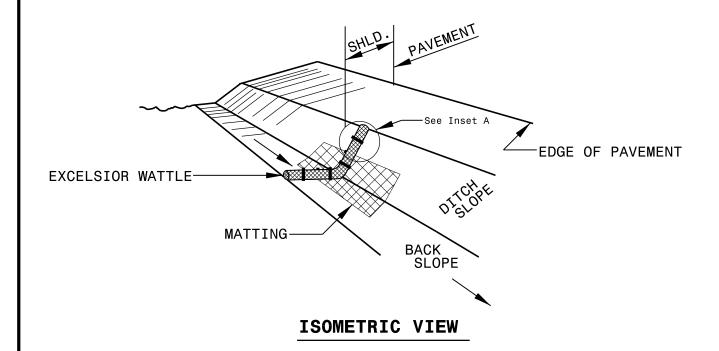
### DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

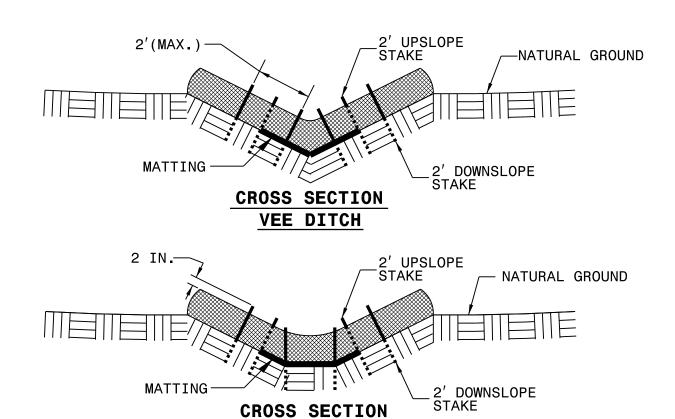
## SOIL STABILIZATION TIMEFRAMES

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	I4 DAYS	7 DAYS FOR SLOPES GREATER THAN 50'IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	I4 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.



## WATTLE DETAIL





TRAPEZOIDAL DITCH

#### 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.

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

