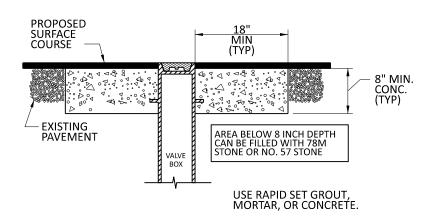
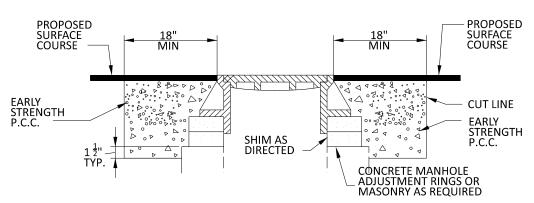


PROJECT REFERENCE NO.	SHEET NO.
2025CPT.07.09.20011	9

	PAVEMENT SCHEDULE										
С	PROP. APPROX. $1\frac{1}{2}$ " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.										
F	AST MAT COAT, #78M										
U	EXISTING PAVEMENT										
٧	MILL ASPHALT PAVEMENT, 1½" DEPTH										
Υ	SHOULDER RECONSTRUCTION (SEE DETAIL)										



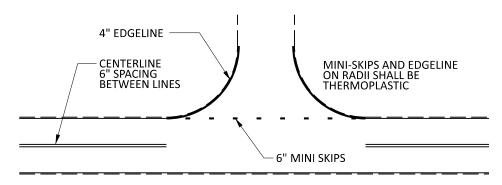
STANDARD CONCRETE ENCASEMENT FOR VALVE CASTINGS IN PAVEMENT



- NOTES:
- MORTAR SHALL BE MIXED TO NCDOT SPECIFICATIONS.
 ALL FAULTY EXISTING BRICKWORK TO BE REMOVED AND REPLACED WITH NEW BRICK MASONRY.
- 3. EXCAVATION FOR THE ADJUSTMENT SHALL BE SHEER CUT
- ON ALL SIDES.

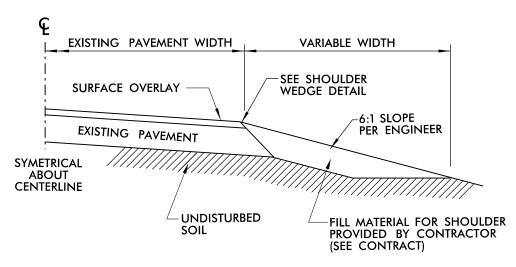
 4. RAPID SET GROUT, MORTAR, OR CONCRETE SHALL BE USED CLASS B CONCRETE MAY BE USED WHEN ADJUSTMENTS ARE NOT IN THE TRAVEL LANE.

STANDARD CONCRETE ENCASEMENT FOR MANHOLE CASTINGS IN PAVEMENT



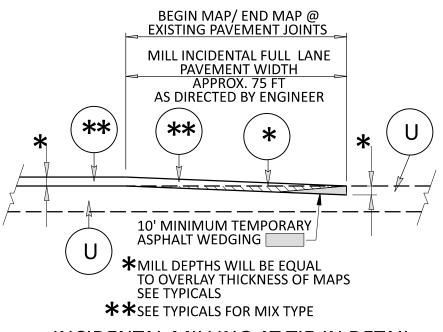
NOTE: MINI SKIPS SHALL BE PLACED ON A 8' CYCLE, CONTAINING A 6' AND 2' SKIP, THE WIDTH OF THE SKIP SHALL BE 6".

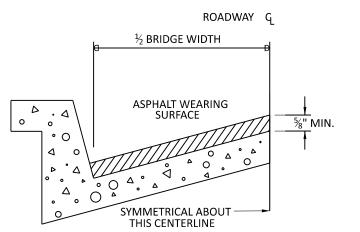
TO BE USED AT ALL
NON-SIGNALIZED INTERSECTIONS



SHOULDER RECONSTRUCTION

* PLACE ASB OR BORROW AS DIRECTED BY THE ENGINEER





BRIDGE HALF TYPICAL SECTION

PROJECT REFERENCE NO.

2025CPT.07.09.20011

SHEET NO.

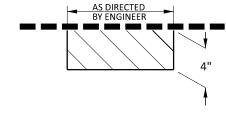
10

FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN. THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN %" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

NOTES

ALL UNPAVED S.R. ROUTES TO BE SURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.
ALL PAVED S.R. ROUTES TO BE RESURFACED TO END OF RADDII, OR AS DIRECTED BY THE ENGINEER. EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES. BRIDGES TO BE RESURFACED AT LOCATIONS AND DEPTH AS DIRECTED BY THE ENGINEER.

INCIDENTAL MILLING AT TIE-IN DETAIL

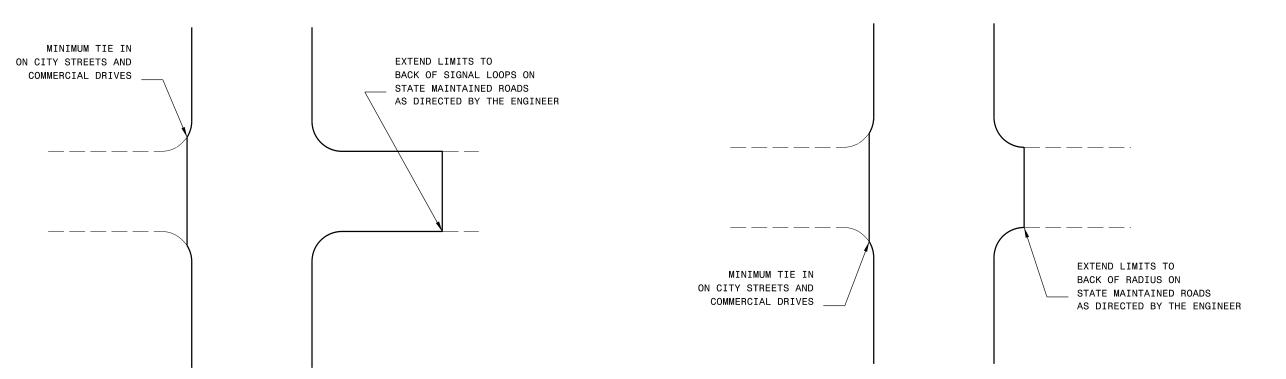


PATCH WITH ACSC, ACIC OR ACBC AS DIRECTED BY THE ENGINEER

PATCHING EXISTING PAVEMENT DETAIL

	PAVEMENT SCHEDULE
С	PROP. APPROX. $1\frac{1}{2}$ " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD.
F	AST MAT COAT, #78M
U	EXISTING PAVEMENT
V	MILL ASPHALT PAVEMENT, 1½" DEPTH
Υ	SHOULDER RECONSTRUCTION (SEE DETAIL)

PROJECT REFERENCE NO.	SHEET NO.
2025CPT.07.09.20011	11

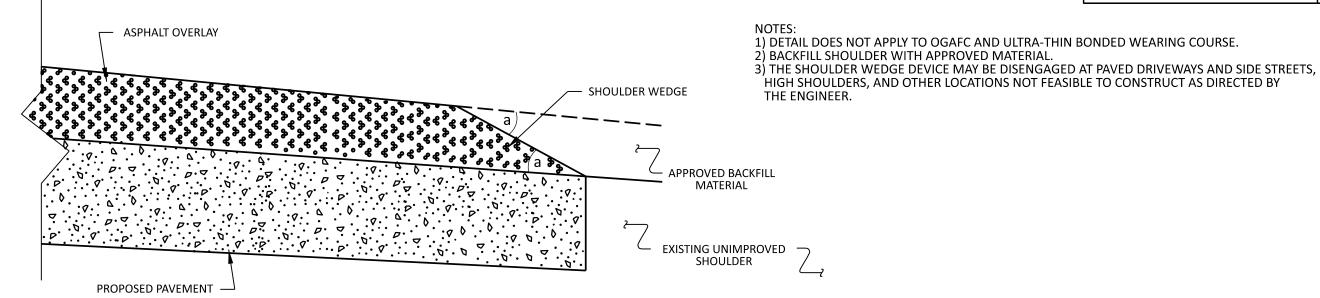


TYPICAL DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES

TYPICAL DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

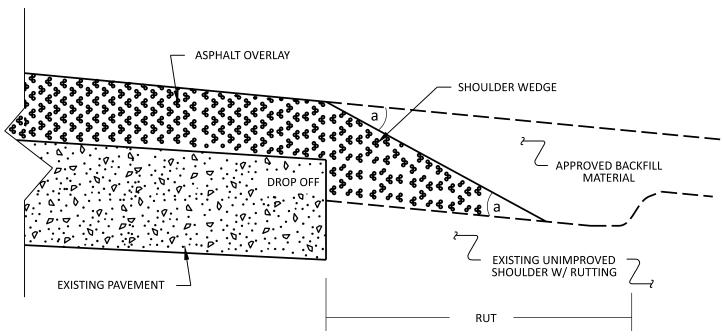
ADDITIONAL INTERSECTIONS (NON-TYPICAL)									
Extend paving limits to back of radius or loop on the following intersections:									
MAP#	STREET NAME	COMMENTS							





SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ Widening or with Existing Paved Shoulder having no dropoffs)



ASPHALT OVERLAY SHOULDER WEDGE APPROVED BACKFILL MATERIAL MATERIAL EXISTING PAVEMENT EXISTING PAVEMENT

SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)

a - 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:
 STUST/details/stand/shoulderwedgedetail.dgn

SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.07.09.20011	13	

SUMMARY OF QUANTITIES

						0106000000-E	1220000000-E	1245000000-E	1260000000-E	1297000000-E	133000000-E	1519000000-E	1575000000-E	1704000000-E	1775000000-E	1838000000-E	2830000000-1	N 2845000000-N	5255000000-N	600000000-E	6071010000-E	6084000000-E	7990000000-E
PROJECT NO	COUNTY MAP	ROUTE	DESCRIPTION	TYP LANES	LENGTH WIDTH		INCIDENTAL	SHOULDER	AGGREGATE	MILLING	INCIDENTAL	ASPHALT	ASPHALT	PATCHING	ASPHALT	EMULSION	ADJ. OF	ADJUSTMENT	PORTABLE	TEMPORARY	WATTLE	SEEDING &	INDUCTIVE
	NO			NO		EXCAVATION	STONE	RECONSTRUCT	SHOULDER	ASPHALT	MILLING	CONC	BINDER FOR	EXISTING	SURFACE	FOR ASPHALT	MANHOLES	OF METER	LIGHTING	SILT FENCE		MULCHING	LOOP SAW CUT
								ION	BORROW	PAVEMENT,		SURFACE	PLANT MIX	PAVEMENT	TREATMENT,	SURFACE		BOXES OR					(DEEP CUT)
										***"DEPTH (1		COURSE, TYPE			MAT COAT,	TREATMENT		VALVE BOXES	1				
										1/2")		S9.5B			#78M STONE								
					MI FT	CY	TONS	SMI	TON	SY	SY	TONS	TON	TONS	SY	GAL	EA	EA	LS	LF	LF	AC	LF
			FROM SR 2135 - S JIM MINOR RD TO																				
2025CPT.07.09.2001		SR-2286 / BRANDYWYNE DR	CUL-DE-SAC	1 2	0.21 18-19	4		0.42	12		154	254	21	100	2,678	884				83	8	0.02	
	TOTAL	FOR MAP NO. 1			0.21	4		0.42	12		154	254	21	100	2,678	884				83	8	0.02	
0005007 07 00 0004	11 11	CD 2000 / DODDEALIV DD	FROM SR 2286 - BRANDYWYNE DR		0.00 10.10	7		0.00	10		454	070	39	200	4.045	4 005				100	10	0.00	
2025CPT.07.09.2001		SR-2289 / BORDEAUX DR FOR MAP NO. 2	TO CUL-DE-SAC	1 2	0.33 18-19 0.33	7		0.66 0.66	19 19		154 154	376 376	39	300 300	4,045 4,045	1,335 1,335				133 133	13 13	0.02 0.02	
	IOIAL	TOR MAP NO. 2	FROM SR 2289 - BORDEAUX DR TO		0.33			0.00	19		154	376	39	300	4,045	1,335				133	13	0.02	
2025CPT.07.09.2001	11 Alamance 3	SR-2290 / BRISBANE CT	CUL-DE-SAC	1 2	0.16 18-19	3		0.32	q		154	198	22	200	2,178	719				64	6	0.01	
2023011:07:03:2001		FOR MAP NO. 3	COE-DE-SAC	1 2	0.16	3		0.32	9		154	198	22	200	2,178	719				64	6	0.01	
	IOIAL	The Hold	FROM SR 2289 - BORDEAUX DR TO		0.10	J		0.02			104	100		200	2,170	710					-	0.01	
2025CPT.07.09.2001	11 Alamance 4	SR-2608 / ST BRIDE CT	CUL-DE-SAC	1 2	0.11 18-19	2		0.21	6		154	145	14	100	1,602	529				43	4	0.01	
		FOR MAP NO. 4			0.11	2		0.21	6		154	145	14	100	1,602	529				43	4	0.01	
			FROM SR 1740 - ROMA RD TO SR																				
2025CPT.07.09.2001	11 Alamance 5	SR-1737 / HAW RIVER HOPEDALE RD	1735 - FONVILLE RD	1 2	2.59 23-24	52	231	5.19	147		392	3,262	226	300	35,936	11,859		1		1,037	104	0.19	
	TOTAL	FOR MAP NO. 5			2.59	52	231	5.19	147		392	3,262	226	300	35,936	11,859		1		1,037	104	0.19	
			FROM SR 2326 - MT HERMON ROCK																				
2025CPT.07.09.2001		SR-2328 / THOMPSON MILL RD	CREEK RD TO SR 2328 (AST SECTION	l) 1 2	4.83 21-26	96	300	9.64	273		746	5,551	375	300	61,163	20,184				1,929	193	0.35	
	TOTAL	FOR MAP NO. 6			4.83	96	300	9.64	273		746	5,551	375	300	61,163	20,184				1,929	193	0.35	
			FROM SR 2328 (AST SECTION) TO SF																				
2025CPT.07.09.2001		SR-2405 / BETHEL SOUTH FORK RD	1004 - SNOW CAMP RD	1 2	0.52 21-22	10	15	0.98	28		179	564	41	100	6,223	2,054				196	20	0.04	
	TOTAL	FOR MAP NO. 7	FROM CR 2171 CHURCH RD TO CR	,	0.52	10	15	0.98	28		179	564	41	100	6,223	2,054				196	20	0.04	
2025CPT.07.09.2001	11 Nomanaa 0	SR-2172 / MOORES CHAPEL CEMETARY RD	FROM SR 2171 - CHURCH RD TO SR 1004 - SNOW CAMP RD	1 2	3.36 20-35	64	195	6.39	181		1,129	3,562	246	300	39,246	12,951				1,279	128	0.23	
2025071.07.09.2001		FOR MAP NO. 8	1004 - SNOW CAMP RD	1 2	3.36	64	195	6.39	181		1,129	3,562	246	300	39,246	12,951				1,279	128	0.23	
	IOIAL	TOR MAP NO. 6	FROM APPROX. 30 FEET BACK FROM	1	3.30	04	193	6.39	101		1,129	3,362	240	300	35,240	12,931				1,2/5	120	0.23	
			NOSE OF ISLAND AT SR 1158 -	`																			
			HUFFMAN MILL RD TO NOSE OF																				
			ISLAND APPROX. 720 FEET SOUTH																				
2025CPT.07.09.2001	11 Alamance 9	SR-1226 OI / UNIVERSITY DR (NORTH BOUND		2 2	1.844 26-77					36,542	4,480	3,722	252	200			4	2					7,623
		FOR MAP NO. 9			1.844					36,542	4,480	3,722	252	200			4	2	1.0				7,623
			FROM NOSE OF ISLAND APPROX.																				
			720 FEET SOUTH OF US 70 TO																				
			APPROX. 30 FEET BACK FROM NOSE	≣																			
			OF ISLAND AT SR 1158 - HUFFMAN																				
2025CPT.07.09.2001		SR-1226 OO / UNIVERSITY DR (SOUTH BOUND	MILL RD	2 2	1.857 23-68					34,453	4,825	3,564	242	220				2					6,072
	TOTAL	OR MAP NO. 10			1.857					34,453	4,825	3,564	242	220				2					6,072
0005007 07 00 1		00 4040 (1)(:::::::::::::::::::::::::::::::::::	FROM NC 119 TO ORANGE COUNTY					0	7.0		0=0	4			47	_						0.10	
2025CPT.07.09.2001		SR-1913 / LYNCH STORE RD	LINE	1 2	1.42 22	28	108	2.77	78 70		379	1,629	135	600	17,951	5,924				553	55	0.10	
	IOTALI	OR MAP NO. 11	EDOM SD 1044 TOWN BRANCH BD TO		1.42	28	108	2.77	78		379	1,629	135	600	17,951	5,924				553	55	0.10	
2025CPT.07.09.2001	11 Alamance 12	SR-1943 / TROLLINGER RD (2 LANE SECTION)	FROM SR 1944 TOWN BRANCH RD TO 3 LANE SECTION	٦ ء	0.404 21-49		18	0.81	23		425	476	33	50	5,249	1,732				162	16	0.03	
2023GF1.07.09.2001	12 Alamanice 12	SR-1943 / TROLLINGER RD (2 LANE SECTION)	3 LANE SECTION FROM 2 LANE	1 2	0.404 21-49	0	10	0.01	23		420	4/0	33	50	5,249	1,/32				102	10	0.03	
	12	(3 LANE SECTION MILLED)	SECTION TO NC 49/ELM ST		0.566 36-49					12,096	865	1,176	80	75	1		q	3	1				850
		OR MAP NO. 12	223.13.1.13.110.407221131	- -	0.97	8	18	0.81	23	12,096	1,290	1,652	113	125	5,249	1,732	9	3		162	16	0.03	850
2025CPT.07.09.2001			FROM NC 49 TO DEAD END	3 2	0.084 18	2	9	0.17	5	896	_,	81	8	50	-,2.0	_,, 0_				34	3	0.01	- 30
		OR MAP NO. 13			0.084	2	9	0.17	5	896		81	8	50						34	3	0.01	
			FROM SR 2603 - IRIS DR TO DEAD																				
2025CPT.07.09.2001	11 Alamance 14	SR-2604 / BRIDGETTE CT	END	1 2	0.139 20-60	3	21	0.28	8			184	13	25	2,029	670				56	6	0.01	
		OR MAP NO. 14			0.139	3	21	0.28	8			184	13	25	2,029	670				56	6	0.01	
			FROM SR 2142 - MT WILLEN RD TO																				
2025CPT.07.09.2001	11 Alamance 15	SR-2603 / IRIS DR	DEAD END	1 2	0.426 20-38	9	12	0.85	24		246	473	33	50	5,206	1,718		<u> </u>		170	17	0.03	
		OR MAP NO. 15			0.426	9	12	0.85	24		246	473	33	50	5,206	1,718				170	17	0.03	
	TOTAL FOR PROJ	IO. 2025CPT.07.09.20011			18.85	288	909	28.69	813	83,987	14,282	25,217	1,780	2,970	183,506	60,559	13	8	1	5,739	573	1.05	14,545
	GR	AND TOTAL			18.85	288	909	28.69	813	83,987	14,282	25,217	1,780	2,970	183,506	60,559	13	8	1	5,739	573	1.05	14,545

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.07.09.20011	14	
2025CP1.07.09.20011	14	

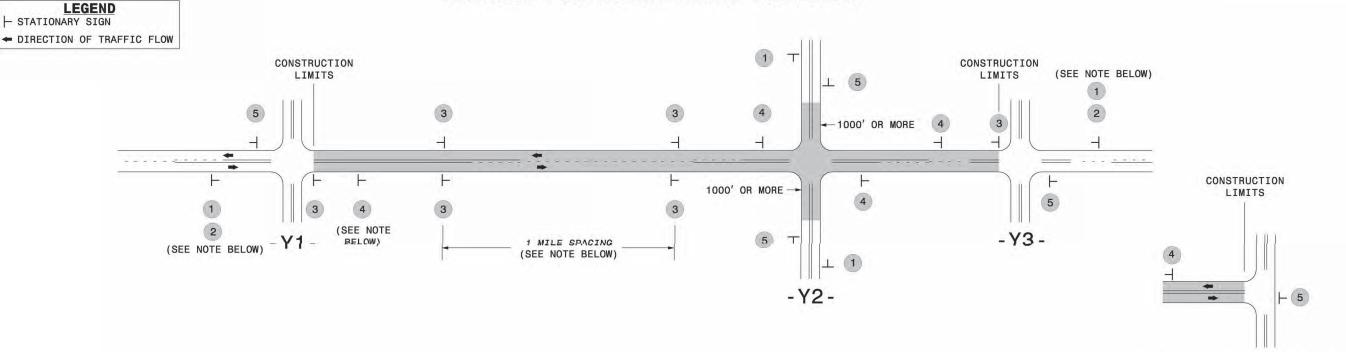
THERMOPLASTIC AND PAINT QUANTITIES

							00-N 46850000									000000-E								4835000000-E				845000000-N			5000000-N
PROJECT NO COUNTY MAP NO	ROUTE	DESCRIPTION	TYP NO LENGTH WID	TH BEGIN MI			ARY 4" X 90 M 4																	24" WHITE				PAINT RT PA			
					ADVANCE		C WHITE Y								STR RT							PAINT		PAINT	ONLY	ARROW		ARROW		LT POLYCARBOI	
					NERAL		DL THERMO TI	ERMO THERN	10 THERMO	THERMO T	HERMO THEF								PAINT		PAINT		PAINT				ARROW	A	ARROW A	ROW ATE H-SHAPE	
					WARNIN							М	90 M		М		м м	1													MARKERS
					SIGNIN	G																								CRYSTAL/REI	ED YELLOW/YE
																															ow
		EDOLLOD GLOS O WALKINGD DD TO	MI FT		SF	LS	LF	LF LF	LF	LF	LF LI	· EA	. EA	EA	EA	EA	EA E	A LF	LF	LF	LF	LF	LF	LF	EA	ŁA	EA	EA	EA	EA EA	EA
	00.0000 (00.000000000000000000000000000	FROM SR 2135 - S JIM MINOR RD TO																													
025CPT.07.09.20011 Alamance 1	SR-2286 / BRANDYWYNE DR	CUL-DE-SAC	1 0.21 18-1	19 0	0.21																										
IOIAL FOR	R MAP NO. 1		0.21																									\longrightarrow			
205007 07 00 00044 N		FROM SR 2286 - BRANDYWYNE DR TO	4 000 404		0.00																										
25CPT.07.09.20011 Alamance 2	SR-2289 / BORDEAUX DR	CUL-DE-SAC	1 0.33 18-1	19 0	0.33																										
TOTAL FOR	R MAP NO. 2	FROM SR 2289 - BORDEAUX DR TO	0.33																												
050DT 07 00 00044 Al	CD COCC / DDICD AND CT		4 040 404		0.40																										
25CPT.07.09.20011 Alamance 3	SR-2290 / BRISBANE CT	CUL-DE-SAC	1 0.16 18-1	19 0	0.16																										
TOTAL FOR	R MAP NO. 3	FROM CROOSE ROPPENINGER	0.16																									\longrightarrow			
	00 0000 (07 00)D5 07	FROM SR 2289 - BORDEAUX DR TO																													
25CPT.07.09.20011 Alamance 4	SR-2608 / ST BRIDE CT	CUL-DE-SAC	1 0.11 18-1	19 0	0.11																										
TOTAL FOR	R MAP NO. 4	FROM OR 1710 ROLLI DR TO OR 1700	0.11																												
0500T 07 00 00044 Manager		FROM SR 1740 - ROMA RD TO SR 1735			0.50		00.000	7.500																							
	SR-1737 / HAW RIVER HOPEDALE RD	- FONVILLE RD	1 2.59 23-2	24 0	2.59 290		28,000 2				25																				
TOTAL FOR	R MAP NO. 5		2.59		290		28,000 2	7,500 30			25	•																\longrightarrow			
		FROM OR ODGO MELIERMON ROOM																													
	00 0000 (7) (0) (0000)	FROM SR 2326 - MT HERMON ROCK																													
25CPT.07.09.20011 Alamance 6		CREEK RD TO SR 2328 (AST SECTION)		26 0.6	5.43 541			1,000 50																							
TOTAL FOR	R MAP NO. 6	FD0110D00000110T0F0F10111700D	4.83		541		51,500	1,000 50																							
	00 0 00 0 00 00 00 00 00 00 00 00 00 00	FROM SR 2328 (AST SECTION) TO SR																													
25CPT.07.09.20011 Alamance 7	SR-2405 / BETHEL SOUTH FORK RD	1004 - SNOW CAMP RD	1 0.52 21-2	22 0	0.52		5,200	,																							
TOTAL FOR	R MAP NO. 7	EDOLLOD ALTH OLUMBALLED TO AD	0.52				5,200	,800																				\longrightarrow			
		FROM SR 2171 - CHURCH RD TO SR																													
	SR-2172 / MOORES CHAPEL CEMETARY RD	1004 - SNOW CAMP RD	1 3.36 20-3	35 0	3.36 376			2,000 250																							
IOTAL FOR	R MAP NO. 8	FROM ARROW OF FEET DADY FROM	3.36		376		34,500	2,000 250																				\longrightarrow			
		FROM APPROX. 30 FEET BACK FROM				1.00																									
		NOSE OF ISLAND AT SR 1158 -																													
		HUFFMAN MILL RD TO NOSE OF																													
		ISLAND APPROX. 720 FEET SOUTH OF															_											/ I /	_		
	SR-1226 OI / UNIVERSITY DR (NORTH BOUND)	US 70	2 1.844 26-7	7 0	1.844			,500 900			300 91			25			7 1		2,500			200	300	910		25	40	19	/	1 340	15
TOTAL FOR	R MAP NO. 9		1.844				7,500	,500 900	200	200	300 91	0		25	40	19	7 1	7,500	0 2,500	900	200	200	300	910		25	40	19	7	1 340	15
		FROM NOSE OF ISLAND APPROX. 720																													1
		FEET SOUTH OF US 70 TO APPROX. 30																													
		FEET BACK FROM NOSE OF ISLAND AT																										4			
	SR-1226 OO / UNIVERSITY DR (SOUTH BOUND)	SR 1158 - HUFFMAN MILL RD		8 0.143	2			,500 900			300 65			23			4		2,500					650	8	23			4	400	10
TOTAL FOR	MAP NO. 10		1.857				7,500	,500 900	200	200	300 65	0 8		23	40	23	4	7,500	2,500	900	200	200	300	650	8	23	40	23	4	400	10
		FROM NC 119 TO ORANGE COUNTY																													
25CPT.07.09.20011 Alamance 11	SR-1913 / LYNCH STORE RD	LINE	1 1.42 22	0	1.42		15,000																								
TOTAL FOR	MAP NO. 11		1.42				15,000	1,500 30																							
		FROM SR 1944 TOWN BRANCH RD TO																													
5CPT.07.09.20011 Alamance 12 S	SR-1943 / TROLLINGER RD (2 LANE SECTION)		1 0.404 21-4	19 0	0.404		4,400	,400			11	0	6																		
	SR-1943 / TROLLINGER RD	3 LANE SECTION FROM 2 LANE																													
12	(3 LANE SECTION MILLED)	SECTION TO NC 49/ELM ST	2 0.566 36-4	9 0.404	0.97			,500 100			11		6	19																	
	MAP NO. 12		0.97				4,450	1,900 100			22	0	12	19																	
25CPT.07.09.20011 Alamance 13		FROM NC 49 TO DEAD END	3 0.084 18	0	0.084																										
TOTAL FOR	MAP NO. 13		0.084																												
		FROM SR 2603 - IRIS DR TO DEAD																													
25CPT.07.09.20011 Alamance 14	SR-2604 / BRIDGETTE CT	END	1 0.139 20-6	0 0	0.139																										
TOTAL FOR	MAP NO. 14		0.139																												
		FROM SR 2142 - MT WILLEN RD TO																		1											
25CPT.07.09.20011 Alamance 15	SR-2603 / IRIS DR	DEAD END	1 0.426 20-3	88 0	0.426																										
TOTAL FOR	MAP NO. 15		0.426																												
			18.85		1,207	1)5 8	12	67	80		11 1	15,00		1,800	400	400	600	1,560	8	48	80	42	11	1 740	
	2025CPT 07 09 20011																														
	2025CPT.07.09.20011						286,35	1	2,660	1,000)		20			201			20,000	2,	200	1,0	00					182			765
	2025CPT.07.09.20011						•			•													,					182			
TOTAL FOR PROJ NO. 2	2025CPT.07.09.20011		18.85		1,207	1	153,650 1		0 400	400	600 1,8	05 8		67	80		11 1		0 5,000	1,800	400		,	1,560				182		1 740	

 PROJ. REFERENCE NO.
 SHEET NO.

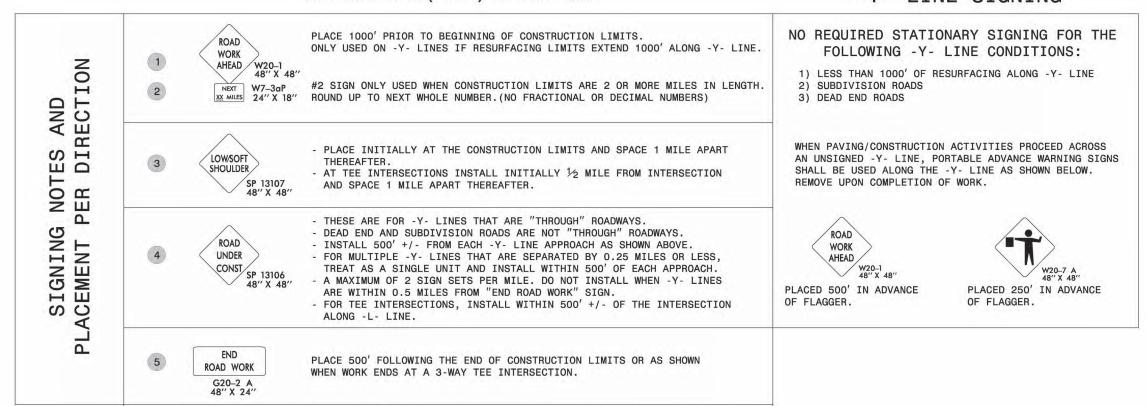
 2025CPT.07.09.20011
 TMP-1

SIGNING FOR RESURFACING PROJECTS



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING





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

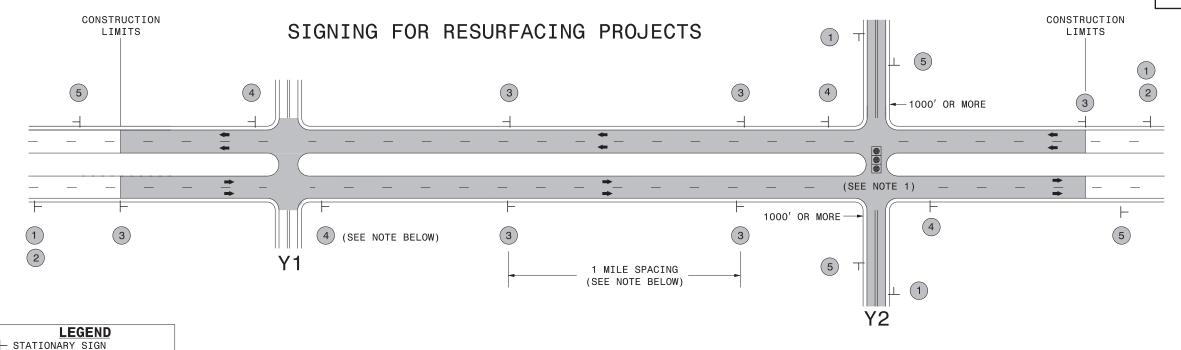
TEE INTERSECTION

MAPS LESS THAN 2 MILES 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.

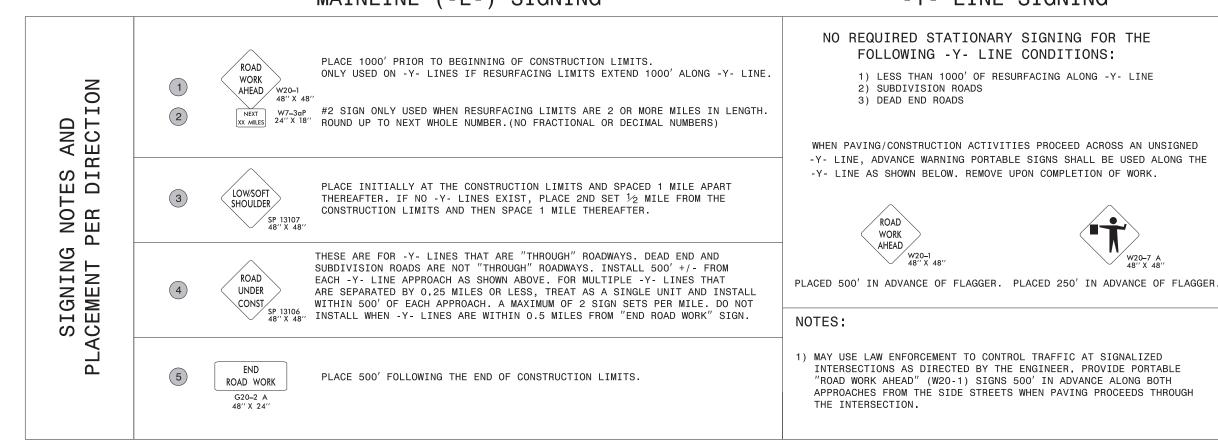
THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE

PROJ. REFERENCE NO. SHEET NO. 2025CPT.07.09.20011 TMP-2



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING



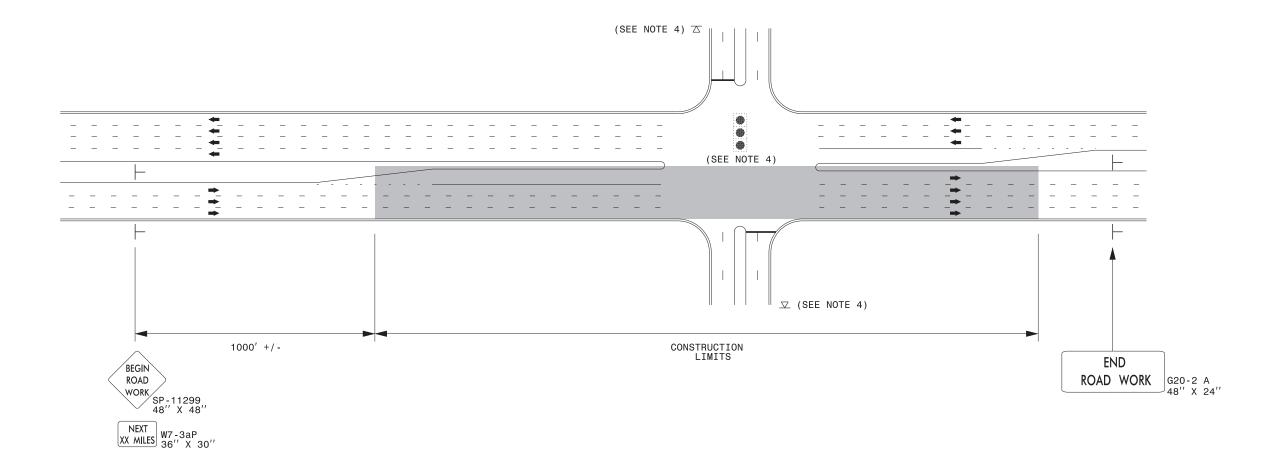


RESURFACING
ADVANCE WARNING SIGNS
FOR RURAL AND SUBURBAN
MULTI-LANE ROADWAYS
W/ SHOULDER SECTIONS

srs/rmgarre+t/Downloads/Resurtacing_AdvWarn_UrSu_Shldr -maarrett ← DIRECTION OF TRAFFIC FLOW

PROJ. REFERENCE NO. SHEET NO. 2025CPT.07.09.20011 TMP-3

URBAN / SUBURBAN WORKZONES



NOTES:

- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) 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.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS.THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.





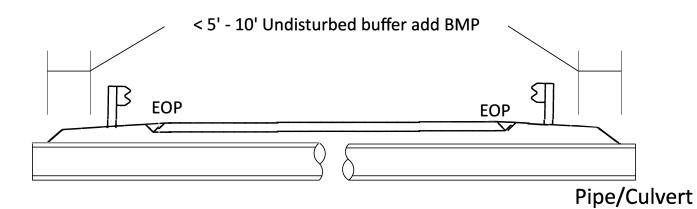
RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES

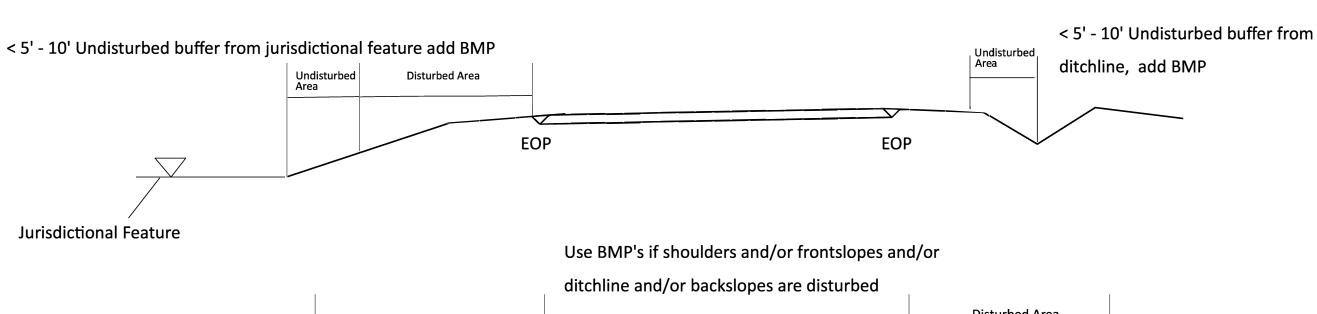
EROSION CONTROL DETAIL

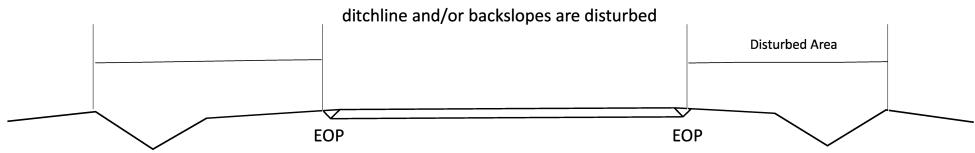
PROJECT REFERENCE NO. SHEET NO.
2025CPT.07.09.20011 EC-1

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

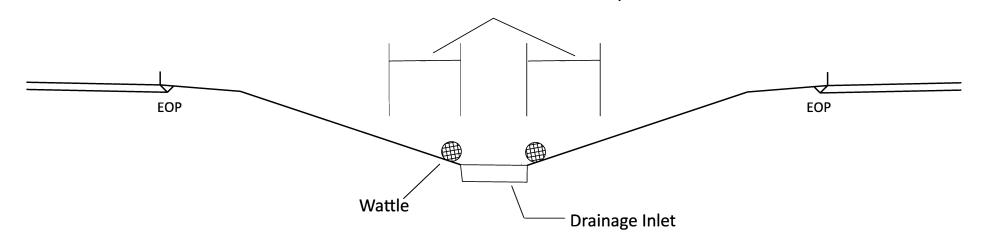
BMP Options: Wattle or Silt Fence







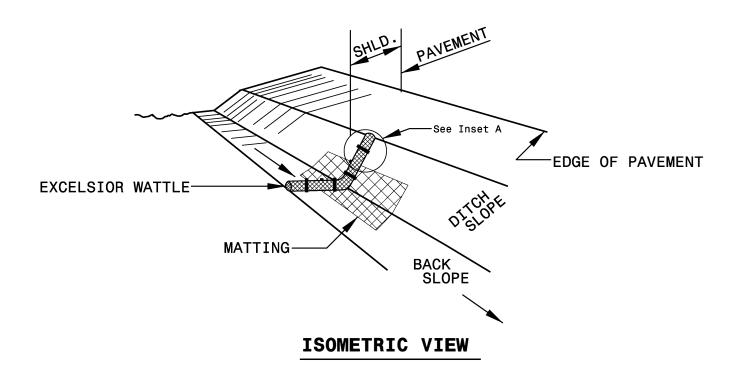


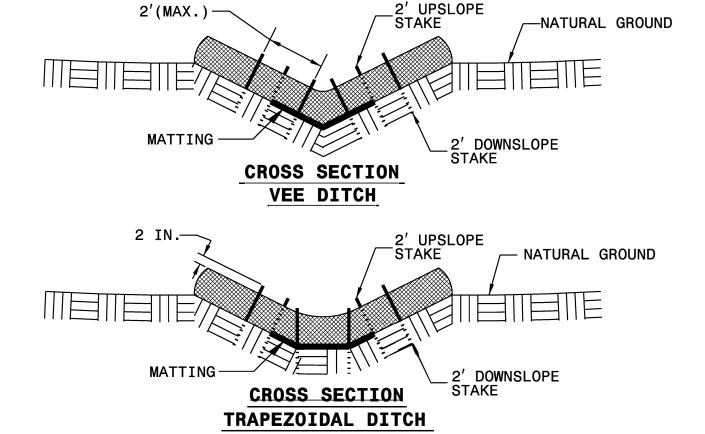


NOT TO SCALE

WATTLE DETAIL

PROJECT REFERENCE NO. SHEET NO.
2025CPT.07.09.20011 EC-2





NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

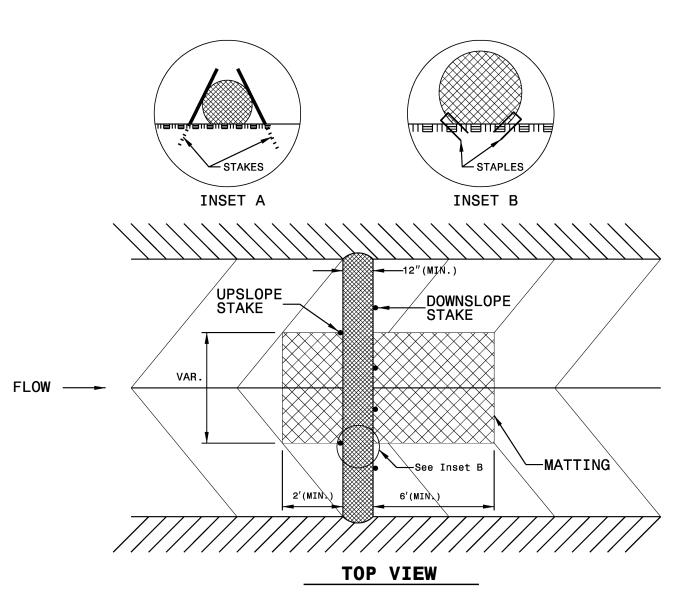
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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.



STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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MILLING

CUT **ENGL** HSI ISH STANDARD INDUCTIVE DRAWING NOI **FOR** 00

NOTES

- -OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTH.
- -MAINTAIN 12" SPACING BETWEEN LOOP WIRE TAIL SECTIONS.
- -WIRE LOOPS CONNECTED TO THE SAME DETECTOR IN SERIES.
- -LOCATE LOOPS IN CENTER OF LANES UNLESS OTHERWISE SHOWN ON PLANS.
- -USE A SERIES OF ONE INCH PIECES OF BACKER ROD SPACED ONE FOOT APART ALONG THE ENTIRE LENGTH OF THE FEEDER SLOT AND LOOP SAW SLOT.
- -CONSULT LOOP SEALANT MANUFACTURER TO DETERMINE CURING TIME REQUIRED PRIOR TO MILLING.
- -REFER TO STANDARD DRAWING 1725.01 SHEETS 2 AND 3 FOR ADDITIONAL REQUIREMENTS.

SAW SLOT DEPTH CHART

ASSUMING 2" MILLING DEPTH

DEPTH	MAX	NO. C)F WII	RE LA	YERS
(IN)	2	3	4	5	6
SAW SLOT DEPTH	4.0	4.5	5.0	5.0	5.0
MINIMUM TOTAL ASPHALT DEPTH REQUIRED	5.0	5.5	6.0	6.0	6.0

LOOP WIRE TWISTING METHOD

INCORRECT WAY TO TWIST WIRE



CORRECT WAY TO TWIST WIRE

→5/16" MIN

SAW SLOT

DEPTH

└MIN. TOTAL ASPHALT REQUIRED

(TYP)

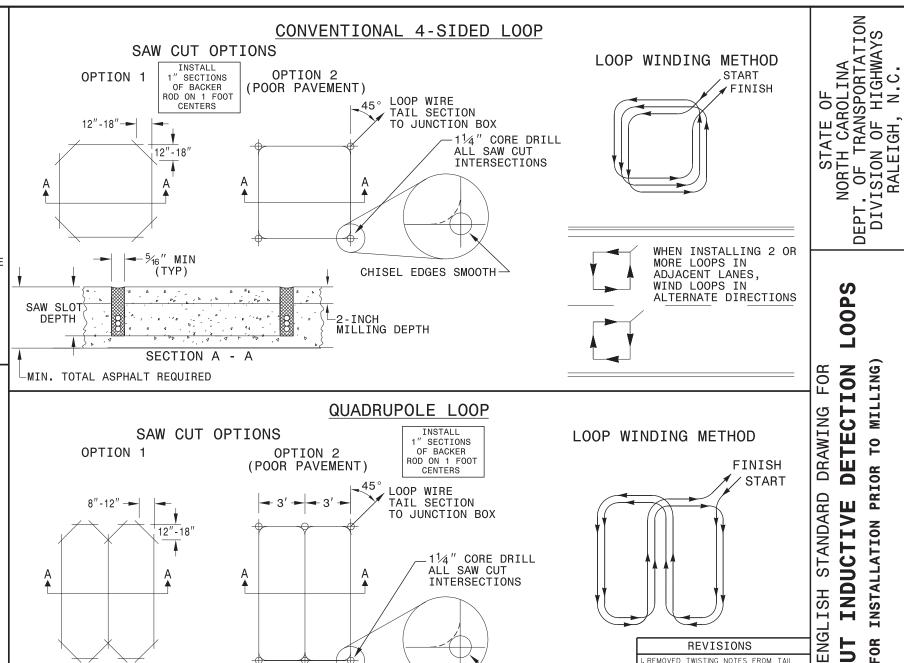
SECTION A - A



SHEET 1 OF 1

7

S



-2-INCH MILLING DEPTH

EDGES SMOOTH

PROJECT REFERENCE

2025CPT.07.09.20011

SHEET NO.

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SIG-1

SHEET

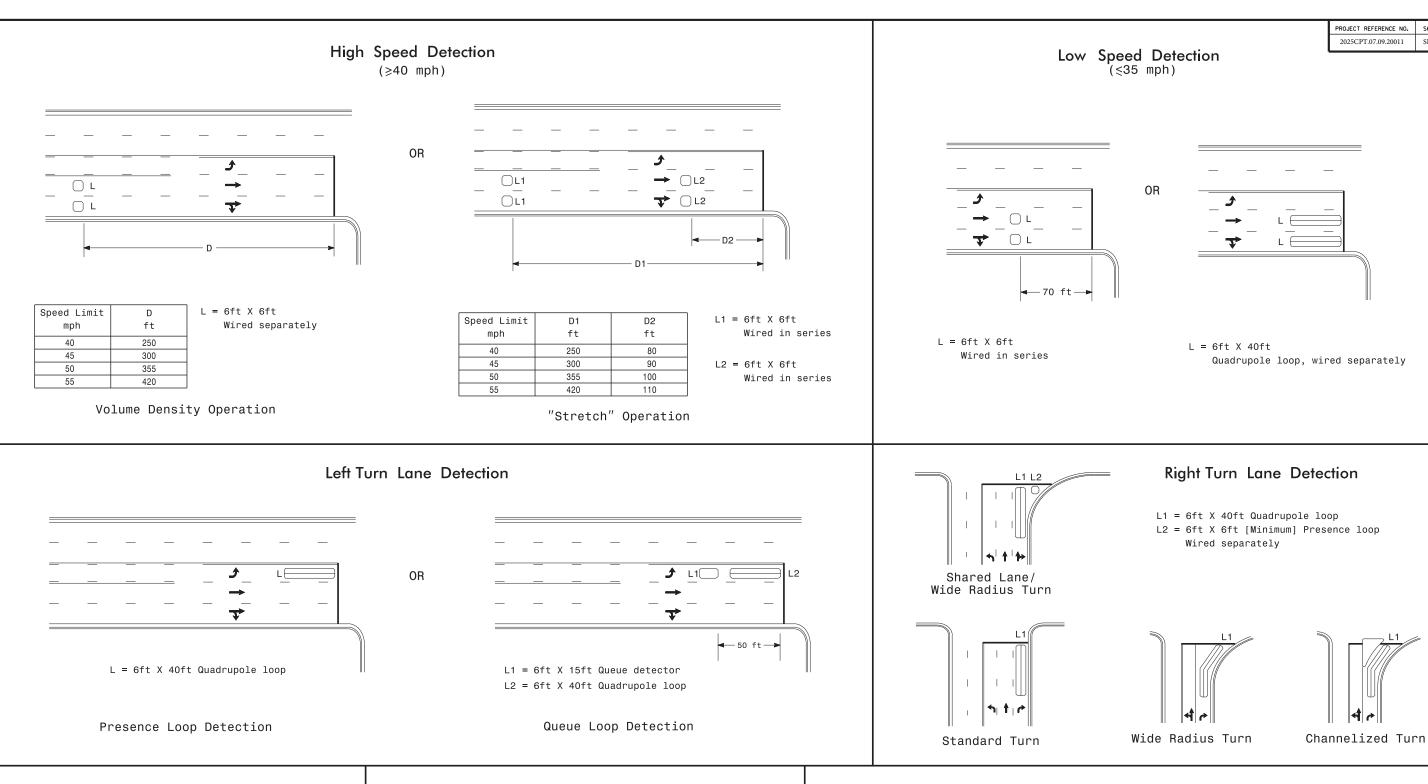
REVISIONS REMOVED TWISTING NOTES FROM TAIL SECT. TO JUNCTION BOX. 2/26/08 MWH P. REVISED SECTION A - A DETAILS. 6/29/15 JTP

Prepared in the Offices of:

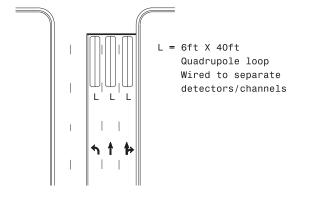
SEAL

SEAL 016286

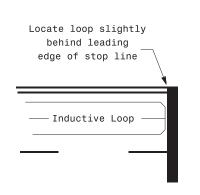
Milton I. Dean







Presence Loop Placement at Stop Lines



- Loop may be located in advance of stop line under any of the following conditions:
- 1) stop line is greater than 15' from edge of intersecting roadway
- 2) loop detects a permissive or protected/permissive left turn
- 3) for an exclusive right turn lane

Recommended Number of Turns

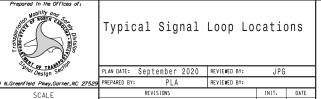
N/A

Single 6' X 6' loop (when wired separately):

•	
Length of Lead-in ft	Number of Turns
< 250	3
250-375	4
375-525	5
> 525	6

Quadrupole loops: Use 2-4-2 turns

6' X 15' Loops: Lead-in < 150', use 2 turns Lead-in > 150', use 3 turns



LIAZION P. Galloway

PROJECT REFERENCE NO. 2025CPT.07.09.20011