

PROJECT NO.	SHEET NO.	TOTAL NO.
30000.14.3, 5CR.20921.33	11	

SUMMARY OF QUANTITIES

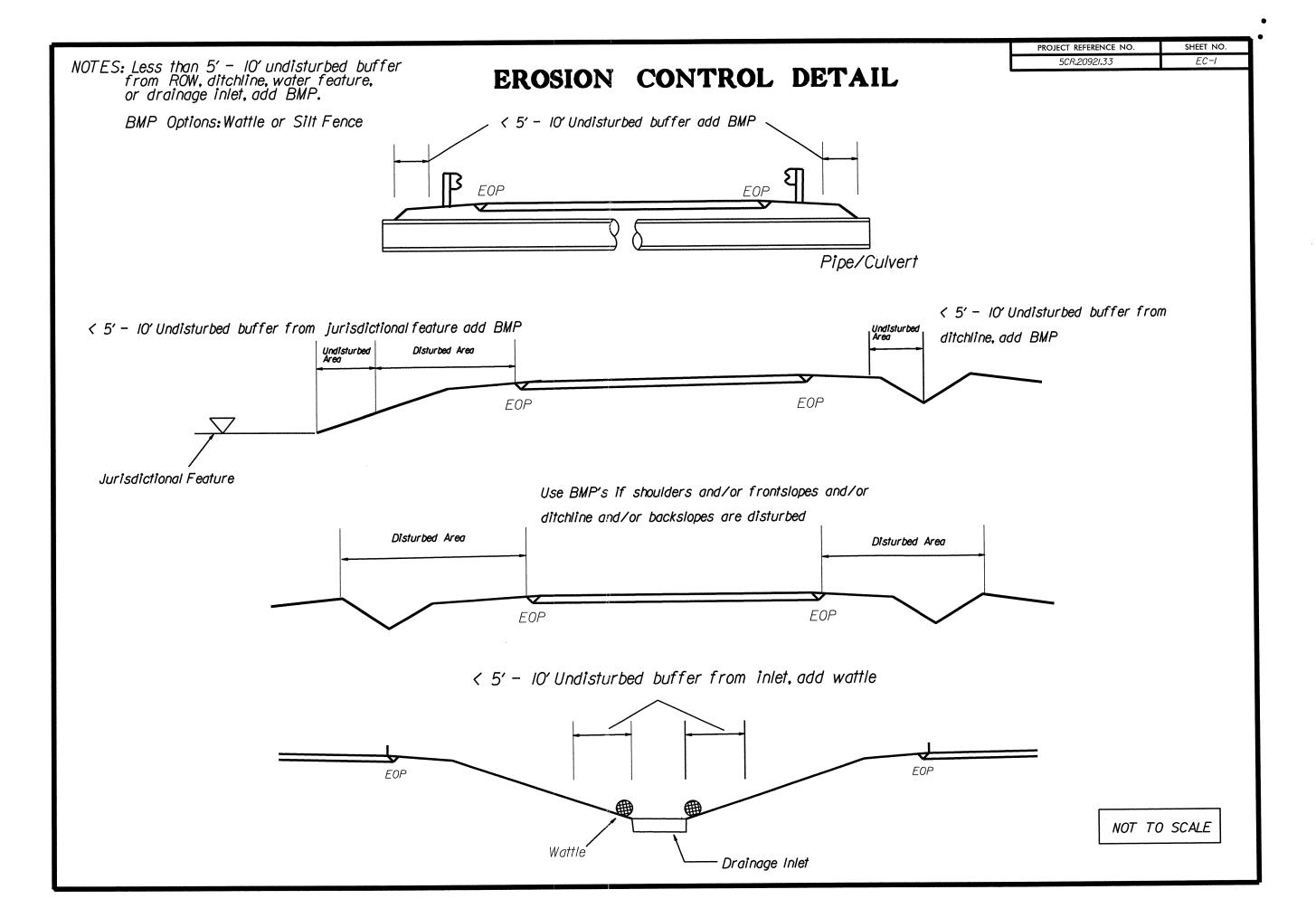
PROJECT	COUNTY MAI	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	AGGREGATE SHOULDER BORROW ALLOWED	LENGTH	WIDTH	BORROW	INCIDENTAL STONE BASE	SHOULDER RECON- STRUCTION	2.5" MILLING	1½" MILLING	0" TO 1.5" MILLING	INCIDENTAL MILLING	BASE COURSE, B25.0B	INTER- MEDIATE COURSE, I19.0B	S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ADJUSTMENT OF MANHOLES	VALVE BOX	SILT FENCE	WATTLE	SEED & MULCHING	LOOP
NO	NC NC			NO			MI	FT	CY	TONS	SMI	SY	SY	SY	SY	TONS	TONS	TONS	TON	TONS	EA	EA	LF	LF	AC	LF
30000.14.3	Wake 1	SR 1774 - DISTRICT DRIVE	PAVEMENT JOINT ON SR 1774 TO SR 1775 - REEDY CREEK ROAD	5	NO	NO	0.77	28	117		1.23				161			1,174	70						1.20	
	TOTAL F	OR MAP NO. 1					0.77		117		1.23				161			1,174	70						1.20	
7		ROJ NO. 30000.14.3					0.77		117		1.23				161			1,174	70				<u> </u>	<u> </u>	1.20	
			US 1 - CAPITAL BLVD TO													T		1				T				
5CR.20921.33	Wake 2	SR 1926 - JENKINS RD	SR 1923 - THOMPSON MILL RD	5	NO	NO	1.56	20	312	156	3.12				460			1,819	109	780			226	570	2.26	288
	TOTAL F	OR MAP NO. 2					1.56		312	156	3.12				460			1,819	109	780			226	570	2.26	288
			CREEDMOOR RD TO SR 1847 - PLEASANT UNION																	9770			403	1,010	4.03	
5CR.20921.33	Wake 3	SR 1844 - MT VERNON CH RD	CH. RD	1	NO	NO	2.78	20	556	230	5.56	32,619			647		4,931	3,033	414	278						
	TOTAL F	OR MAP NO. 3					2.78		556	230	5.56	32,619	ļ		647		4,931	3,033	414	278			403	1,010	4.03	
5CR.20921.33	Wake 4	SR 1826 - RAY ROAD	FROM SR 1829 - STRICKLAND RD TO SR 1834 - NORWOOD RD	3, 6, 7	NO	NO	1.85	24	370	93	3.70	12,289		710		614	1,839	2,829	283	185			270	670	2.68	450
		OR MAP NO. 4					1.85		370	93	3.70	12,289		710		614	1,839	2,829	283	185			270	670	2.68	450
	TOTAL	T TOO. 4	NC 50 - CREEDMOOR RD				1.00					1														
5CR.20921.33	Wake 5	SR 1827 - LYNN RD	TO SR 1820 - LEAD MINE RD	4	NO	NO	0.9	54					31,205					2,758	165	225	7	29				1,332
	TOTAL F	OR MAP NO. 5					0.9						31,205			<u> </u>		2,758	165	225	7	29		ļ		1,332
5CR.20921.33	Wake 6	SR 1637 - CHURCH ST	ASHE ST TO PAVEMENT JOINT AT DURHAM COUNTY LINE	2, 6	NO	NO	3.52	20	532	266	5.17	32,972		4,035	320		4,927	5,580	567	348	4	15	387	970	3.87	400
3014.20921.301			OODIVIT LINE	2, 0	NO		3.52		532	266	5.17	32,972		4,035	320		4,927	5,580	567	348	4	15	387	970	3.87	400
	IOIALF	OR MAP NO. 6					3.52		332	200	3.17	02,512		4,000	1 020		1,027	1 3,000	1							
5CR.20921.33	Wake 7	SR 1635 - MCCRIMMON PKWY	NC 54- CHAPEL HILL RD TO SR 1637 - CHURCH ST	1	NO	NO	0.34	24	68	34	0.68	5,387	ļ		133		812	500	68	34			50	130	0.49	606
	TOTAL F	OR MAP NO. 7					0.34		68	34	0.68	5,387			133		812	500	68	34			50	130	0.49	606
5CR.20921.33	Make 9	SR 1641 - SLATER RD	GROVE CH RD TO PAVEMENT JOINT AT DURHAM COUNTY	2	NO	NO	0.64	20	150	44	1.10	11,606			242		1,749	1,058	146	64			65	170	0.80	
3CR.20921.331			DORHAW COONTT		NO	1		20				11,606			242		1,749	1,058	146	64			65	170	0.80	
<u> </u>	TOTAL F	OR MAP NO. 8				+	0.64	<u> </u>	150	44	1.10	11,006		1	272	1	1,,43	1,000	1 170	1				T		
5CR.20921.33	Wake 9	SR 1005 - SIX FORKS RD	I-440 TO ATLANTIC AVE	4	NO	NO	1.9	46					63,874					5,646	339	475	27	34				5,004
	TOTAL F	OR MAP NO. 9					1.9				ļ		63,874	ļ				5,646	339	475	27	34	-	_	_	5,004
TO	OTAL FOR PR	OJ NO. 5CR.20921.33					13.49		1,988	823	19.33	94,873	95,079	4,745	1,802	614	14,258	23,223	2,091	2,389	38	78	1,401	3,520	14.13	8,080
	GRA	ND TOTAL					14.26	T	2,105	823	20.56	94,873	95,079	4,745	1,963	614	14,258	24,397	2,161	2,389	38	78	1,401	3,520	15.33	8,080

PROJECT NO.	SHEET NO.	TOTAL NO.
30000.14.3,	12	
5CR.20921.33	12	

THERMOPLASTIC AND PAINT QUANTITIES

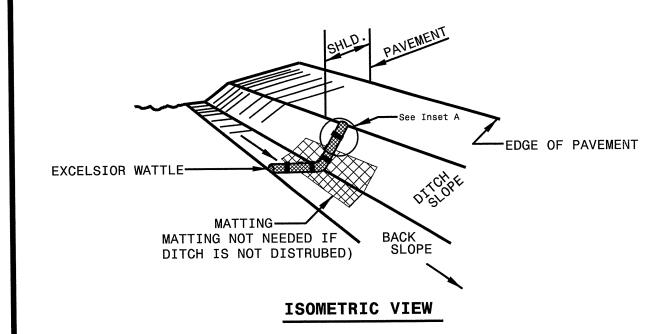
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Γ	I	T			T T	T	4685000000-E	46860	00000-E	4690000000-E	469500			4705000000-E			721000000				4725000000-E				00000-E
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	LENGTH	WIDTH	4" X 90 M	4" X 120 M	4" X 120 M	6" X 120 M	8" X 90 M	8" X 90 M	8" X 120 M	16" X 120 M	24" X 120 M				THERMO	THERMO	THERMO STR			4" WHITE COLD	
					1	1	WHITE	YELLOW	WHITE	WHITE	YELLOW	WHITE	WHITE	WHITE	WHITE	MSG	RXR 120	MSG	LT	RT	& RT ARROW	STR	STR & LT	APPLIED	COLD APPLIED
		1 1				1	THERMO	THERMO	THERMO	THERMO	THERMO	THERMO	THERMO	THERMO	THERMO	SCHOOL	M	ONLY	ARROW	ARROW	90 M	ARROW	ARROW 90	PLASTIC, TYPE	PLASTIC, TYPE
1		1 1			1	1	1									120 M		120 M	90 M	90 M		90 M	M	.111	111
NO		NO					LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF
				PAVEMENT JOINT ON SR 1774 TO							:							1							
30000.14.3	Wake	111	SR 1774 - DISTRICT DRIVE	SR 1775 - REEDY CREEK ROAD	0.77	28	8,088	8,260							44			<u> </u>					ļ		
	TO	TAL FOR	MAP NO. 1		0.77		8,088	8,260							44		ļ			ļ	ļ				
	TOTAL	-00 000	J NO. 30000.14.3		0.77		8,088	8,260				L			44	ļ	<u> </u>	<u> </u>		<u> </u>	<u> </u>		<u></u>		<u> </u>
	IOIAL	OK PRO	J NO. 30000.14.3					8	,260					<u> </u>	<u> </u>				<u></u>					<u> </u>	
																	·			·			·		· · · · · · · · · · · · · · · · · · ·
				US 1 - CAPITAL BLVD TO SR 1923 -								1							1 _						
5CR.20921.33	Wake	2	SR 1926 - JENKINS RD	THOMPSON MILL RD	1.56	20	16,474	16,468	387		26				40	_		ļ	5	2	3				
	TO	TAL FOR	MAP NO. 2		1.56		16,474	16,468	387		26				40	_		-	5	2	3				ļ
				NC 50 - CREEDMOOR RD TO SR						1					1	1	1	1	1						
5CR.20921.33	Wake	3	SR 1844 - MT VERNON CH RD	1847 - PLEASANT UNION CH. RD	2.78	20	29,368	29,368						<u> </u>	24	<u> </u>	<u> </u>	<u> </u>	ļ						
	ТО	TAL FOR	MAP NO. 3		2.78		29,368	29,368							24					<u> </u>			<u> </u>	ļ	
		T		FROM SR 1829 - STRICKLAND RD											İ	1	1			1					
5CR.20921.33	Wake	4	SR 1826 - RAY ROAD	TO SR 1834 - NORWOOD RD	1.85	24	19,798	22,100	320						77				<u> </u>					630	630
	ТО	TAL FOR	MAP NO. 4		1.85		19,798	22,100	320					1	77					<u> </u>				630	630
	T	T		NC 50 - CREEDMOOR RD TO SR										}			1			İ			1		
5CR.20921.33	Wake	5	SR 1827 - LYNN RD	1820 - LEADMINE RD	0.9	54		9,435	3,265		96		740	<u> </u>	481	24		ļ	39	9		10			
	TO	TAL FOR	MAP NO. 5		0.9			9,435	3,265		96		740		481	24	<u> </u>		39	9		10			-
		TTT		ASHE ST TO PAVEMENT JOINT AT														1	1						
5CR.20921.33	Wake	6	SR 1637 - CHURCH ST	DURHAM COUNTY LINE	3.52	20	33,515	43,536	1,621	110	825	40		50	290		2		32	11			1 1		<u> </u>
	TO	TAL FOR	MAP NO. 6		3.52		33,515	43,536	1,621	110	825	40		50	290		2		32	11			11		
		T		NC 54- CHAPEL HILL RD TO SR 1637	1											1		1							
5CR.20921.33			SR 1635 - MCCRIMMON PKWY	- CHURCH ST	0.34	24	3,590	3,573	126		60			100	147		4		1 1	ļ				ļ	
	то	TAL FOR	MAP NO. 7		0.34		3,590	3,573	126		60			100	147		4		1 1	ļ	<u> </u>			ļ	
				SR 1640 - SORRELLS GROVE CH				1		1					1	1		ł	i					İ	
		1 1		RD TO PAVEMENT JOINT AT		1			1							1		l				1	1		
5CR.20921.33			SR 1641 - SLATER RD	DURHAM COUNTY	0.64	20	6,758	6,758	212		1		<u> </u>		ļ		 	_	ļ	2			 	<u> </u>	
			MAP NO. 8		0.64		6,758	6,758	212					ļ			 			2		10		 	
5CR.20921.33			SR 1005 - SIX FORKS RD	I-440 TO ATLANTIC AVE	1.9	46		20,132	8,200				2,335	<u> </u>	718		<u> </u>	24	76	16	11	42		ļ	
	TO	TAL FOR	MAP NO. 9		1.9			20,132	8,200				2,335	<u> </u>	718			24	76	16	11	42		630	630
	TOTAL EC	ו חפם פר	NO. 5CR.20921.33		13.49	1	109,503	151,370	14,131	110	1,007	40	3,075	150	1,777	24	6	24	153	30	14	52			.260
L	O IAL FO	JN F1100	110. 001.20021.00		1		<u> </u>	16	55,501		1,1	047	<u> </u>	<u> </u>	<u> </u>		54		<u> </u>		250			1 1	,200
											1	1 46	0.075	1 450	1.821	1 04	6	7 24	153	30	14	52	1 4	630	630
		GRAND	TOTAL		14.26		117,591		14,131	110	1,007	40	3,075	150	1,821	24	54	24	103	1 30	250	1 52			260
GIVAID IOIVE					1			17	73,761	<u> </u>	1,	047	L				54				250				,200

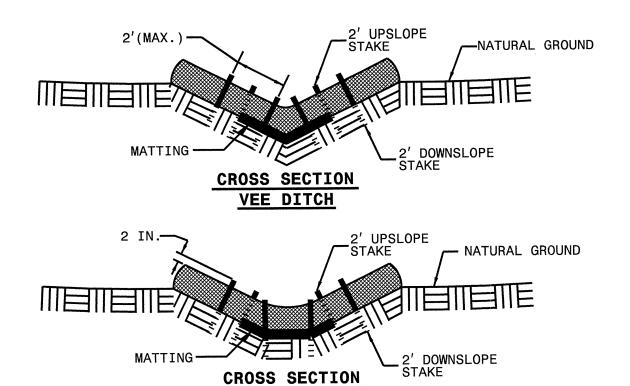
PROJECT COUNTY NAP NOTE DESCRIPTION LENGTH WIDTH CHING PAINT P		т					Τ	4810000	000-F	4815000000-F	4820000000-F	483000000n-F	4835000000-F		4840000000-N		Τ		484500000	00-N		4850000000-E	49000	00000-N
NO NO NO NO NO NO NO NO	DROJECT	COLL	NITY MAD	POUTE	DESCRIPTION	LENGTH	WIDTH								PAINT MSG	PAINT MSG	PAINT LT	PAINT	PAINT	PAINT	PAINT STR	4" LINE	CRYSTAL	YELLOW &
NO NO NO NO PAPEMENT JOINT ON SHITTAT TO BE A SHITT JOINT ON SHITTAT TO SHITT	PROJECT	1000	WII MAF	KOOTE	DESCRIPTION	LLINOIII	****			1				SCHOOL	RXR	ONLY	ARROW	RT	STR	STR & LT	& RT	REMOVAL	& RED	YELLOW
NO NO NO PAVEMENT JOINT ON SR 1773 - REEDY CREEK ROAD 0.77 28 1.50 1.00 1.00 1.00 1.00 1.00 1.00 1.00								r Ami		1 0000	1 7	1 7	''''''		1				ARROW	ARROW	ARROW		MARKERS	MARKERS
SCR_2002135 Wake 1 SR_1774_DISTRICT DRIVE SR_1775_REEDY CREEK ROD 0.77 28	NO	l	NO				1	LF		LF	LF	LF	LF	EA	EA	EA	EA		EA		EA	LF	EA	EA
## 1 SR 1774 - OSTRICT DRIVE SR 1775 - REEDY CREEK ROAD 0.77 28		 	110		PAVEMENT JOINT ON SR 1774 TO		<u> </u>																	
TOTAL FOR NAP NO. 1 TOTAL FOR PROJ. NO. 3000.014.3 SCR. 20021.33 Wake 2 SR 1829. JERKINS RD TOTAL FOR MAP NO. 2 TOTAL FOR MAP NO. 2 TOTAL FOR MAP NO. 2 TOTAL FOR MAP NO. 2 TOTAL FOR MAP NO. 2 TOTAL FOR MAP NO. 2 NC. 50. CREEDMOOR RD TO SR 1.05 SCR. 20021.33 Wake 4 SR 1829. STRICKLAND RD TOTAL FOR MAP NO. 4 SCR. 20021.33 Wake 4 SR 1829. STRICKLAND RD TOTAL FOR MAP NO. 4 TOTAL FOR MAP NO. 4 SCR. 20021.33 Wake 4 SR 1829. STRICKLAND RD TOTAL FOR MAP NO. 5 TOTAL FOR MAP NO. 5 TOTAL FOR MAP NO. 5 TOTAL FOR MAP NO. 6 SCR. 20021.33 Wake 6 SR 1827. CHARCH ST TOTAL FOR MAP NO. 6 NC. 50. CREEDMOOR RD TO SR 1,850 SCR. 20021.33 Wake 6 SR 1827. CHARCH ST TOTAL FOR MAP NO. 5 SCR. 20021.33 Wake 6 SR 1827. CHARCH ST TOTAL FOR MAP NO. 5 SCR. 20021.33 Wake 6 SR 1827. CHARCH ST TOTAL FOR MAP NO. 5 SCR. 20021.33 Wake 6 SR 1827. CHARCH ST TOTAL FOR MAP NO. 5 SCR. 20021.33 Wake 6 SR 1827. CHARCH ST TOTAL FOR MAP NO. 6 NC. 50. CREEDMOOR RD TO SR 1,850 SCR. 20021.33 Wake 6 SR 1827. CHARCH ST TOTAL FOR MAP NO. 6 NC. 50. CREEDMOOR RD TO SR 1,850 SCR. 20021.33 Wake 6 SR 1827. CHARCH ST TOTAL FOR MAP NO. 6 NC. 50. CREEDMOOR RD TO SR 1,850 SCR. 20021.33 Wake 6 SR 1827. CHARCH ST TOTAL FOR MAP NO. 6 NC. 50. CREEDMOOR RD TO SR 1,850 SCR. 20021.33 Wake 6 SR 1827. CHARCH ST TOTAL FOR MAP NO. 6 NC. 50. CREEDMOOR RD TO SR 1,850 SCR. 20021.33 Wake 6 SR 1827. CHARCH ST TOTAL FOR MAP NO. 6 NC. 50. CREEDMOOR RD TO SR 1,850 SCR. 20021.33 Wake 6 SR 1827. CHARCH ST TOTAL FOR MAP NO. 6 NC. 50. CREEDMOOR RD TO SR 1,850 SCR. 20021.33 Wake 6 SR 1827. CHARCH ST DURHAM COUNTY UNE 3.52 3,521 3,522 3,523 3,524 3,529 3,529 3,529 3,529 3,529 3,529 3,529 3,729 3	30000 14 3	Wa	ke 1	SR 1774 - DISTRICT DRIVE		0.77	28		l			l												
SCR_20021.33 Wake A SR_1820_FLYNN RD SR_20021.35 Wake B SR_1820_FLYNN RD SR_20021.35 SR_2002						0.77																		
SCR.2002133 Wake 2 SR1926 JENGINS RD US1 - CAPITAL BLVD TO SR1923 - THOMPSON MILL RD 1.56		TOT !	L FOR PR	2 LNO 20000 44 2		0.77												<u> </u>	<u> </u>	<u> </u>	<u> </u>			
SCR_20021_33 Waske 2		IOIA	AL FOR PRO	JJ NO. 30000.14.3]		L			1					L	L	
Scr. 20021 33 Wake 2 SR 1928 - JENKINS RD THOMPSON MILL RD 1.58 20		Υ			US 1 - CAPITAL BLVD TO SR 1923 -	·	T		Ι			<u> </u>	I	T	T		1		T	T				
TOTAL FOR MAP NO. 2	5CR.20921.33	Wa	ike 2	SR 1926 - JENKINS RD		1.56	20										<u> </u>	<u> </u>		<u> </u>	<u> </u>			103
SCR 20921.33 Wake 3 SR 1984 - MT VERNON CH RD 1947 - PLEASANT UNLOCH RD 2.78 20 29.388 29.388 24						1.56																	28	103
SCR 20921 33 Wake 4		T			NC 50 - CREEDMOOR RD TO SR		1										1		1	1				
TOTAL FOR MAP NO. 3 Wake 4 SR 1829 - STRICKLAND RD TOTAL FOR MAP NO. 4 SCR 20921 33 Wake 5 SR 1827 - LYNN RD TOTAL FOR MAP NO. 5 SCR 20921 33 Wake 6 SR 1827 - LYNN RD TOTAL FOR MAP NO. 5 SCR 20921 33 Wake 6 SR 1837 - CHURCH ST DURHAM COUNTY LINE SCR 20921 33 Wake 7 SR 1835 - MCCRIMMON PKWY TOTAL FOR MAP NO. 7 SCR 20921 33 Wake 7 SR 1835 - MCCRIMMON PKWY TOTAL FOR MAP NO. 7 SCR 20921 33 Wake 8 SR 1641 - SLATER RD TOTAL FOR MAP NO. 7 SCR 20921 33 Wake 8 SR 1641 - SLATER RD TOTAL FOR MAP NO. 8 SCR 20921 33 Wake 8 SR 1641 - SLATER RD TOTAL FOR MAP NO. 8 SCR 20921 33 Wake 8 SR 1641 - SLATER RD TOTAL FOR MAP NO. 8 SCR 20921 33 Wake 8 SR 1641 - SLATER RD TOTAL FOR MAP NO. 8 SCR 20921 33 Wake 8 SR 1641 - SLATER RD TOTAL FOR MAP NO. 8 SCR 20921 33 Wake 8 SR 1641 - SLATER RD TOTAL FOR MAP NO. 8 SCR 20921 33 Wake 8 SR 1641 - SLATER RD TOTAL FOR MAP NO. 8 SCR 20921 33 Wake 8 SR 1641 - SLATER RD TOTAL FOR MAP NO. 8 SCR 20921 33 Wake 8 SR 1641 - SLATER RD TOTAL FOR MAP NO. 8 SCR 20921 33 Wake 8 SR 1641 - SLATER RD TOTAL FOR MAP NO. 8 SCR 20921 33 Wake 8 SR 1641 - SLATER RD TOTAL FOR MAP NO. 8 SCR 20921 33 Wake 8 SR 1641 - SLATER RD TOTAL FOR MAP NO. 8 SCR 20921 33 Wake 9 SR 1005 - SKF FORKS RD L440 TO ATLANTIC AVE 1.9 46 8,200 20,132 SCR 20921 33 Wake 9 SR 1005 - SKF FORKS RD L440 TO ATLANTIC AVE 1.9 4 8,800 20,132 SCR 20921 33 Wake 9 SR 1005 - SKF FORKS RD L440 TO ATLANTIC AVE 1.9 46 8,200 20,132 SCR 20921 33 Wake 9 SR 1005 - SKF FORKS RD L440 TO ATLANTIC AVE 1.9 46 8,200 20,132 SCR 20921 33 Wake 9 SR 1005 - SKF FORKS RD L440 TO ATLANTIC AVE 1.9 46 8,200 20,132 SCR 20921 33 Wake 9 SR 1005 - SKF FORKS RD L440 TO ATLANTIC AVE 1.9 46 8,200 20,132 SCR 20921 33 Wake 9 SR 1005 - SKF FORKS RD L440 TO ATLANTIC AVE 1.9 46 8,200 20,132 SCR 20921 33 Wake 9 SR 1005 - SKF FORKS RD L440 TO ATLANTIC AVE 1.9 46 8,200 20,132 SCR 20921 33 Wake 9 SR 1005 - SKF FORKS RD L440 TO ATLANTIC AVE 1.9 46 8,200 20,132 SCR 20921 33 Wake 9 SR 1005 - SKF FORKS RD L440 TO ATLANTIC AVE 1.9 46 8,200 20,132 SCR 20921 33 Wake 9 SR	5CR.20921.33	Wa	ike 3	SR 1844 - MT VERNON CH RD	1847 - PLEASANT UNION CH. RD	2.78	20	29,368	29,368			İ												184
SCR 20921.33 Wake 4 SCR 1828 - RAY ROAD TO SR 1834 - NORWOOD RD 1,85 24 8,000 8,000 1,280 28						2.78		29,368	29,368				24						<u> </u>					184
Soft 2097 13 Wake 4 Set 102 - NAT NOW 10 Set 103 - NOW 1					FROM SR 1829 - STRICKLAND RD															ı	1			
NC 50 - CREEDMOOR RD TO SR 1827 - LYNN RD 1820 - LEADMINE RD 0.9 3.265 9.435 681 24 39 9 10 69 69 681 24 6 24 6 24 76 16 42 111 1.260 744 1	5CR.20921.33	Wa	ke 4	SR 1826 - RAY ROAD	TO SR 1834 - NORWOOD RD		24																	135
SCR 20921.33 Wake 6 SR 1827 - LYNN RD 1820 - LEADMINE RD 0.9 54 3.285 9.435			TOTAL FO	R MAP NO. 4		1.85		8,000	8,000			<u> </u>					-		. 	ļ	-	1,260	26	135
SURVAY S										ł				1			000		1 40			l	60	107
SCR 20921 33 Wake 6 SR 1637 - CHURCH ST DURHAM COUNTY LINE 3.52 20 35,124 43,536 110 40 50.00 290 2 32 1 1 1 1 1 1 1 1 1	5CR.20921.33				1820 - LEADMINE RD		54											9		<u> </u>	 			107
SCR 20921.33 Wake 6 SR 1637 - CHURCH ST DURHAM COUNTY LINE 3.52 20 35,124 43,536 110 40 50.00 290 2 32 1 1 1 140		·	TOTAL FO	R MAP NO. 5		0.9		3,265	9,435				681	24			39	1 9	10	 	 	ļ	65	107
TOTAL FOR MAP NO. 6 SR 1635 - CHORCH SI DORNAM CONTY LINE S.3.52 35,124 43,536 110 40 50,00 290 2 32 1 1 1		1															20	1 .		1 4			140	429
SCR.20921.33 Wake 7 SR 1635 - MCCRIMMON PKWY SR 1635 - MCCRIMMON PKWY SR 1635 - MCCRIMMON PKWY SR 1635 - MCCRIMMON PKWY SR 1635 - MCCRIMMON PKWY SR 1635 - MCCRIMMON PKWY SR 1636 - SORRELLS GROVE CH SR 1640 - SORRELLS GROVE CH RD TO PAVEMENT JOINT AT DURHAM COUNTY O.64 20 6.970 6.758 SR 1641 - SLATER RD DURHAM COUNTY O.64 6.970 6.758 SR 1005 - SIX FORKS RD I-440 TO ATLANTIC AVE 1.9 46 8.200 20.132 2.335 718 24 76 16 42 11 460 460 TOTAL FOR MAP NO. 9 SR 1005 - SIX FORKS RD I-440 TO ATLANTIC AVE 1.9 8.200 20.132 2.335 718 24 76 16 42 11 460 TOTAL FOR MAP NO. 9 TOTAL FOR MAP NO. 9 SR 1005 - SIX FORKS RD I-440 TO ATLANTIC AVE 1.9 8.200 20.132 2.335 718 24 76 16 42 11 1.260 744 1 TOTAL FOR PROJ NO. 5CR.20921.33 SR 24 13.49 94.643 120.802 110 2.375 150 1.860 24 6 24 148 28 52 1 11 1.260 744 1 TOTAL FOR PROJ NO. 5CR.20921.33 TOTAL FOR PROJ NO	5CR.20921.33				DURHAM COUNTY LINE		20							 	 			+		+	 			429
SCR.20921.33 Wake 7 SR 1635 - MCCRIMMON PKWY - CHURCH ST 0.34 24 3,716 3,573 100.00 147 4 1 9		·	TOTAL FO			3.52	-	35,124	43,536	110	40	50.00	290	<u> </u>	 		32	 	+	 	 	 	170	720
SCR_20921.33 Wake 7 SR_1635-MCCRIMMON PRWY -CHORCHSI 0.34 24 3,716 3,573 1000 147 4 1 9 1 1 1 1 1 1 1 1		l	. _				1	0.740	0.570	-		100.00	147				1	1	ļ				۵	37
SR 1640 - SORRELLS GROVE CH RD TO PAVEMENT JOINT AT DURHAM COUNTY 0.64 20 6.970 6.758 12 12	5CR.20921.33				- CHURCH ST		24			 					+ 4	 	+	+		 	 	<u> </u>	9	37
SCR 20921.33 Wake 8 SR 1641 - SLATER RD DURHAM COUNTY 0.64 20 6.970 6.758 0.64 6.970 6.758 12 12 15 15 15 1.860 24 16 24 16 24 16 24 16 24 17 18 18 18 18 18 18 18			TOTAL FO	R MAP NO. 7	CD 4640 CODDELL C CDOVE CLL	0.34	 	3,/16	3,573			100	147	 	 		 '	†	 	1	 		 	
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5CR.20921.33 Wake 9 SR 1005 - SIX FORKS RD I-440 TO ATLANTIC AVE 1.9 46 8,200 20,132 2,335 718 24 76 16 42 11 460 TOTAL FOR MAP NO. 9 1.9 8,200 20,132 2,335 718 24 76 16 42 11 460 TOTAL FOR MAP NO. 9 13.49 94,643 120,802 110 2,375 150 1,860 24 6 24 148 28 52 1 11 1,260 744 1 TOTAL FOR PROJ NO. 5CR.20921.33 1426 94,643 120,802 110 2,375 150 1,860 24 6 24 148 28 52 1 11 1,260 744 1	5CR.20921.33				DURHAM COUNTY		1 20			 	 	 					1	2	 	 	†	<u> </u>	12	42
TOTAL FOR PROJ NO. 5CR.20921.33	ECB 20021 22				LAAO TO ATLANTIC AVE		16			 	2 335		718	 	1	24	76	16	42	1	11	T	460	250
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TOTAL FOR PROJ NO. 5CR.20921.33 215,445 54 240 2,031							 			110		150		24	6	24	148	28	52	1	11	1,260		1,287
14 26 94 643 120 802 110 2.375 150 1.860 24 6 24 148 28 52 1 11 1,260 744 1	Т	TOTAL	FOR PRO	J NO. 5CR.20921.33		10.40	 			1		T			54				240				2	,031
						14400				110	2 275	150	1.860	24	T 6	24	148	28	52	1 1	11	1.260	744	1.287
GRAND TOTAL 215,445 54 240 2,031			GRAN	D TOTAL		14.26	 			110	2,310	130	1,000	 	54		 		240	<u> </u>		1 .,		



PROJECT REFERENCE NO. SHEET NO. **5CR.20921.33 EC-2**

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.

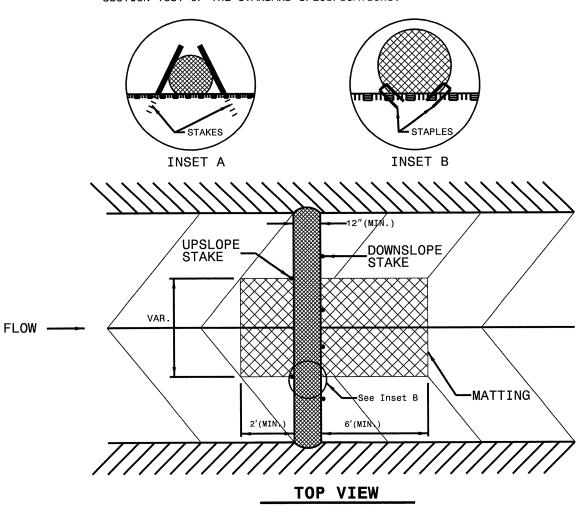
 ${\hbox{\scriptsize ONLY}\over\hbox{\scriptsize WASH}}$ INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

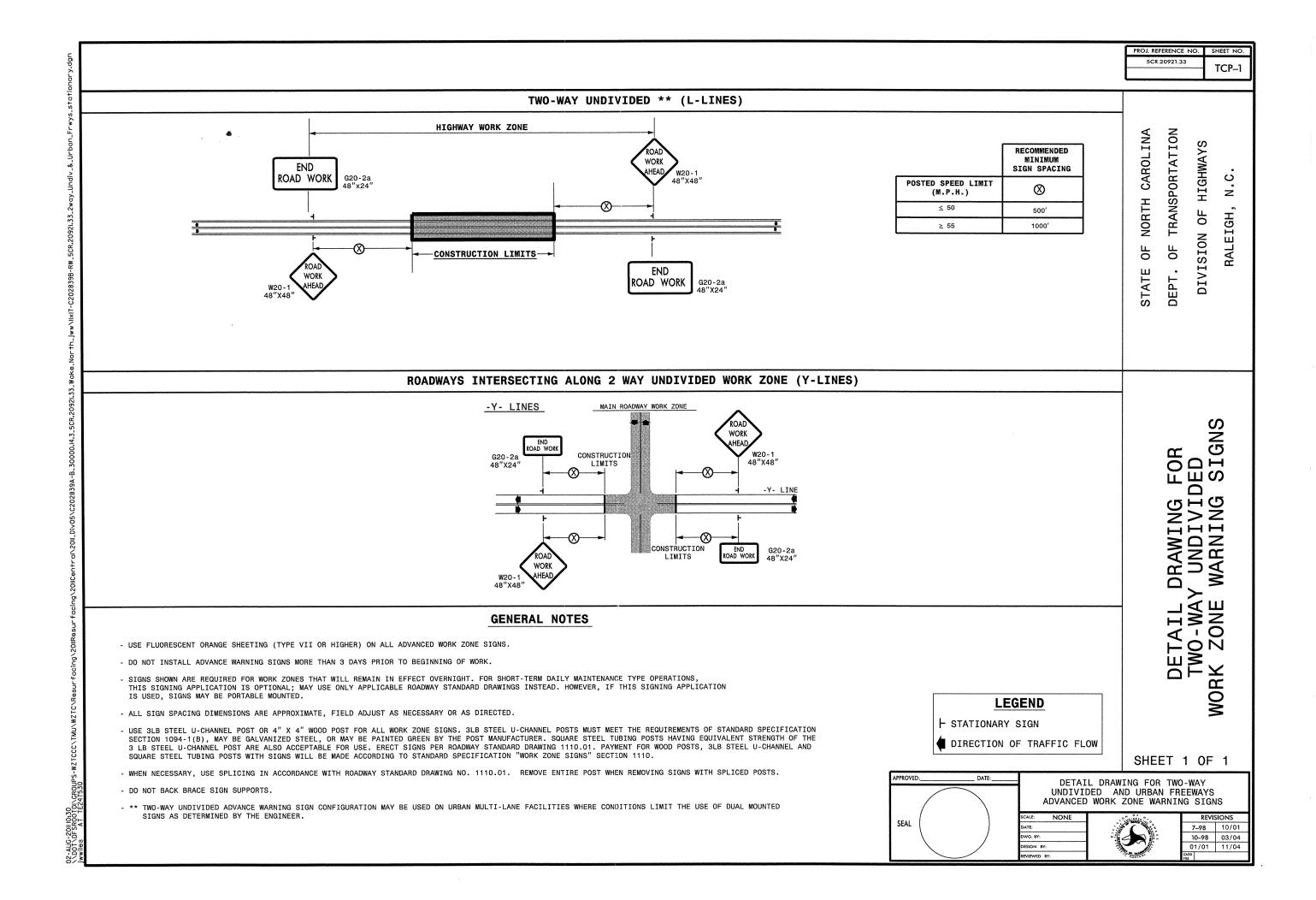
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

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.

IF DITCH WILL BE DISTURBED, INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

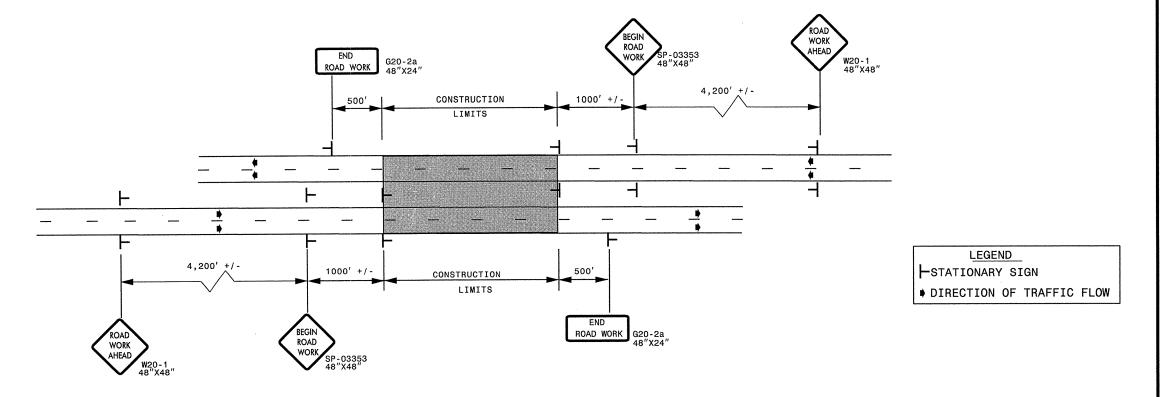




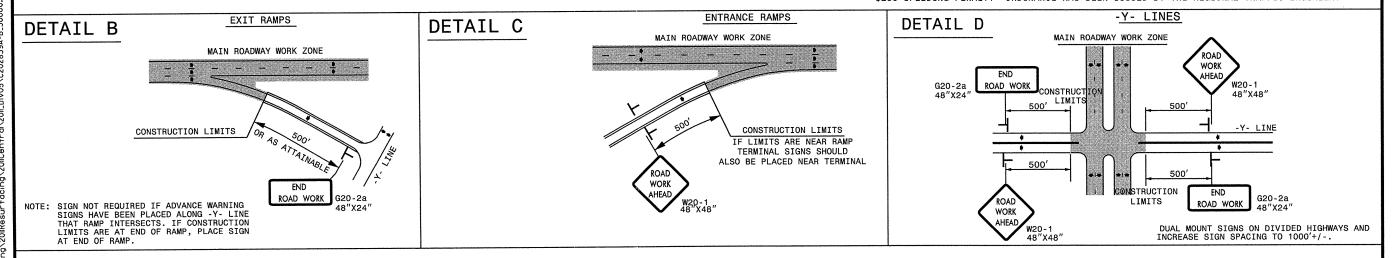
ADVANCED WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

PROJ. REFERENCE NO. SHEET NO. 5CR.20921.33 TCP-2

DETAIL A

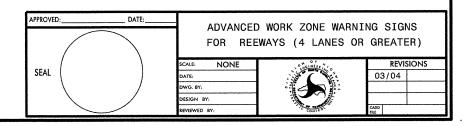


★ USE THE "\$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "\$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH
- DO NOT BACK BRACE SIGN SUPPORTS.



GENERAL NOTES

- (1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS: A. TRUCK MOUNTED SIGNS
- B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
- C. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (C
- (MUST CIRCLE TO PICK UP SIGNS)
- D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
 (MUST USE CIRCLE TO PICK UP SIGNS)
- (2) ALL ADVANCE WARNING SIGNS MUST BE 48" X 48" WITH FLUORESCENT ORANGE TYPE VII, VIII OR IX SHEETING. IF SPACE LIMITATIONS ON SHOULDER PROHIBIT A 48" X 48" SIGN, A SMALLER SIGN CAN BE USED WITH APPROVAL FROM ENGINEER.
- (3) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHTBAR.
- (4) GROUND MOUNTED ADVANCED WARNING SIGNS SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND TO BOTTOM OF SIGN.
- (5) SIGN SPACING SHOULD BE ADJUSTED FOR HORIZONTAL AND VERTICAL CURVES, ETC. TO IMPROVE SIGHT DISTANCES.
- (6) ADDITIONAL VEHICLES SHOULD BE USED IN WORK CARAVAN TO FACILITATE DRYING OF PAVEMENT MARKING MATERIAL (TMIA'S ARE OPTIONAL ON THESE ADDITIONAL VEHICLES). HOWEVER, THE FIRST VEHICLE MOTORISTS SEE IN THE TRAVEL LANE SHALL HAVE A TMIA.

- (7) ADJUST DISTANCE AS NEEDED TO PREVENT MOTORISTS FROM ENTERING SPACE BETWEEN THE APPLICATION AND PROTECTION VEHICLE. DISTANCE CAN BE LENGTHENED TO ACCOMODATE SIGHT DISTANCE NEEDS.
- (8) ROUND UP MILEAGE TO NEXT WHOLE MILE. WORK ZONE SHOULD NOT EXCEED FIVE (5) MILES IN LENGTH.
- (9) RADIO COMMUNICATION BETWEEN VEHICLES IS REQUIRED.
- (10) USE OF A LIGHT BAR ON ALL VEHICLES IS PREFERRED, BUT A ROTATING BEACON MAY BE USED INSTEAD.
- (11) IF WORK IS PERFORMED AT NIGHT, THE WORK AREA MUST BE ILLUMINATED WITH MACHINE AND/OR TOWER LIGHTS AS APPROVED BY THE ENGINEER.
- (12) ALL TRAFFIC CONTROL DEVICES WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS FOR PAVEMENT MARKING AND MARKERS.
- (13) INFORMATIONAL SIGNS SHOULD BE ACTIVITY SPECIFIC, i.e. "PAINT CREW IN ROAD". SIGNS MAY BE RECTANGULAR OR DIAMOND SHAPE. SIGN SIZE SHOULD BE BASED ON THE MOTORIST ABILITY TO RECOGNIZE SIGN WHEN TRAVELING FIVE (5) MILES ABOVE POSTED SPEED LIMIT.
- (14) IF A LEAD VEHICLE IS ADDED TO OPERATION, IT SHOULD HAVE THE SAME ADVANCE WARNING SIGNS AS THE APPLICATION VEHICLE SHOWN BELOW.

LEGEND

PORTABLE SIGN. SIGNS MUST BE NCHRP-350 AND NCDOT APPROVED.

DIRECTION OF TRAFFIC FLOW



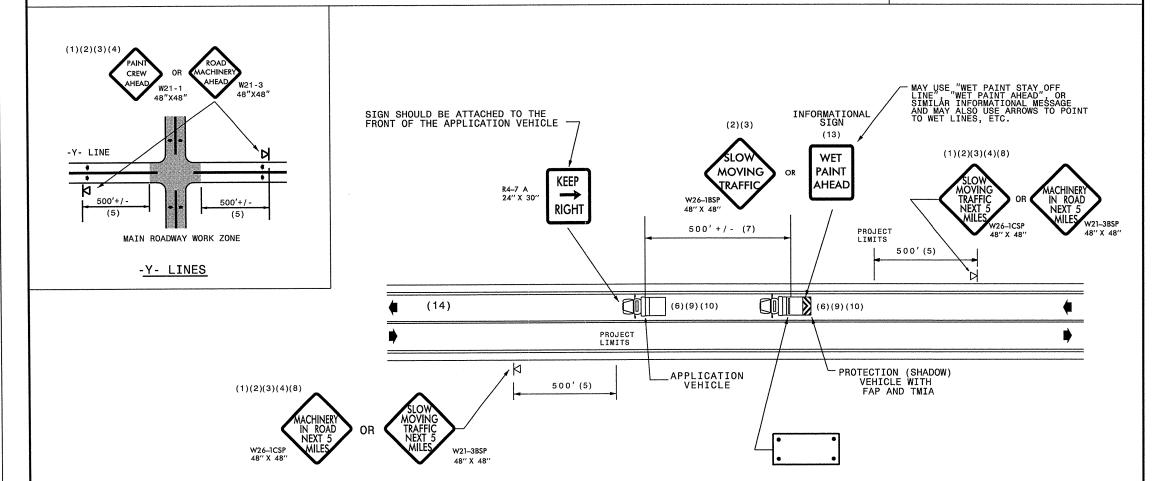
APPLICATION VEHICLE WITH LIGHT BAR



PROTECTION VEHICLE WITH TRUCK MOUNTED IMPACT ATTENUATOR (TMIA) AND LIGHT BAR (SEE ROADWAY STANDARD NO. 1165.01). TMIA MUST BE NCHRP.350 TEST LEVEL 3 (60+MPH)

: :

FLASHING ARROW PANEL, TYPE "B" (60"X30" MIN.), "CAUTION MODE"



MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)
PLACING PAVEMENT MARKING OR MARKERS
ON TWO-LANE TWO-WAY ROADWAYS

DRAWING NUMBER 6
IMPLEMENTATION DATE: 07/01/97
REVISED: 11/03/04

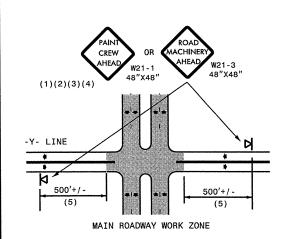
GENERAL NOTES

- (1) THE FOLLOWING OPTIONS MAY BE USED FOR ADVANCE WARNING SIGNS:
 - A. TRUCK MOUNTED SIGNS
 - B. TRUCK MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
 C. GROUND MOUNTED ADVANCE WARNING SIGNS
 - (MUST CIRCLE TO PICK UP SIGNS)
 - D. GROUND MOUNTED CHANGEABLE MESSAGE SIGN (CMS)
 (MUST USE CIRCLE TO PICK UP SIGNS)
- (2) ALL ADVANCE WARNING SIGNS MUST BE 48" X 48" WITH FLUORESCENT ORANGE TYPE VII, VIII OR IX SHEETING. IF SPACE LIMITATIONS ON SHOULDER PROHIBIT A 48" X 48" SIGN, A SMALLER SIGN CAN BE USED WITH APPROVAL FROM ENGINEER.
- (3) SIGNS ON VEHICLES SHOULD BE MOUNTED A MINIMUM OF ONE (1) FOOT FROM THE GROUND AND SHOULD NOT BLOCK THE MOTORIST'S SIGHT OF THE FLASHING ARROW PANEL AND/OR LIGHTBAR.
- (4) GROUND MOUNTED ADVANCED WARNING SIGNS SHOULD BE MOUNTED A MINIMUM OF FIVE (5) FEET FROM THE GROUND TO BOTTOM OF SIGN.
- (5) SIGN SPACING SHOULD BE ADJUSTED FOR HORIZONTAL AND VERTICAL CURVES, ETC. TO IMPROVE SIGHT DISTANCES.

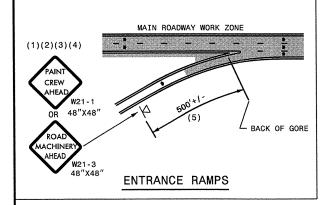
- (6) ADDITIONAL VEHICLES SHOULD BE USED IN WORK CARAVAN TO FACILITATE DRYING OF PAVEMENT MARKING MATERIAL (TMIA'S ARE OPTIONAL ON THESE ADDITIONAL VEHICLES). HOWEVER, THE FIRST VEHICLE MOTORISTS SEE IN THE TRAVEL LANE SHALL HAVE A TMIA.
- (7) ADJUST DISTANCE AS NEEDED TO PREVENT MOTORISTS FROM ENTERING SPACE BETWEEN THE APPLICATION AND PROTECTION VEHICLE. DISTANCE CAN BE LENGTHENED TO ACCOMODATE SIGHT DISTANCE NEEDS.
- (8) ROUND UP MILEAGE TO NEXT WHOLE MILE. WORK ZONE SHOULD NOT EXCEED FIVE (5) MILES IN LENGTH.
- (9) RADIO COMMUNICATION BETWEEN VEHICLES IS REQUIRED.
- (10) USE OF A LIGHT BAR ON ALL VEHICLES IS PREFERRED, BUT A ROTATING BEACON MAY BE USED INSTEAD.
- (11) IF WORK IS PERFORMED AT NIGHT, THE WORK AREA MUST BE ILLUMINATED WITH MACHINE AND/OR TOWER LIGHTS AS APPROVED BY THE ENGINEER.
- (12) ALL TRAFFIC CONTROL DEVICES WILL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS FOR PAVEMENT MARKING AND MARKERS.

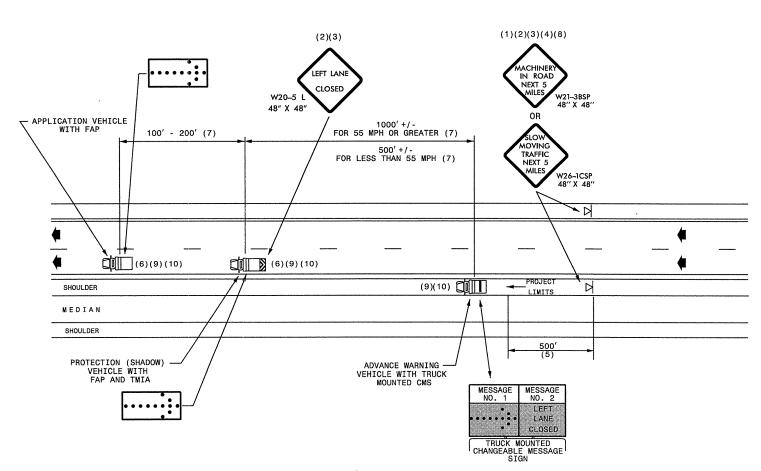
LEGEND

- PORTABLE SIGN. SIGNS MUST BE NCHRP-350 AND NCDOT APPROVED.
 - DIRECTION OF TRAFFIC FLOW
- APPLICATION VEHICLE WITH LIGHT BAR
 - PROTECTION VEHICLE WITH TRUCK
 MOUNTED IMPACT ATTENUATOR (TMIA)
 AND LIGHT BAR (SEE ROADWAY
 STANDARD NO. 1165.01). TMIA MUST
 BE NCHRP-350 TEST LEVEL 3 (60+MPH)
 APPROVED
- ADVANCE WARNING VEHICLE WITH TRUCK MOUNTED CHANGEBLE MESSAGE SIGN (CMS) AND LIGHT BAR.
 MESSAGE SIGN LETTER HEIGHT SHOULD BE A MINIMUM OF 10 INCHES.
- FLASHING ARROW PANEL,
 TYPE "B" (60"X30" MIN.),
 APPROPRIATE DIRECTION INDICATED
- CHANGEABLE MESSAGE SIGN



-Y- LINES

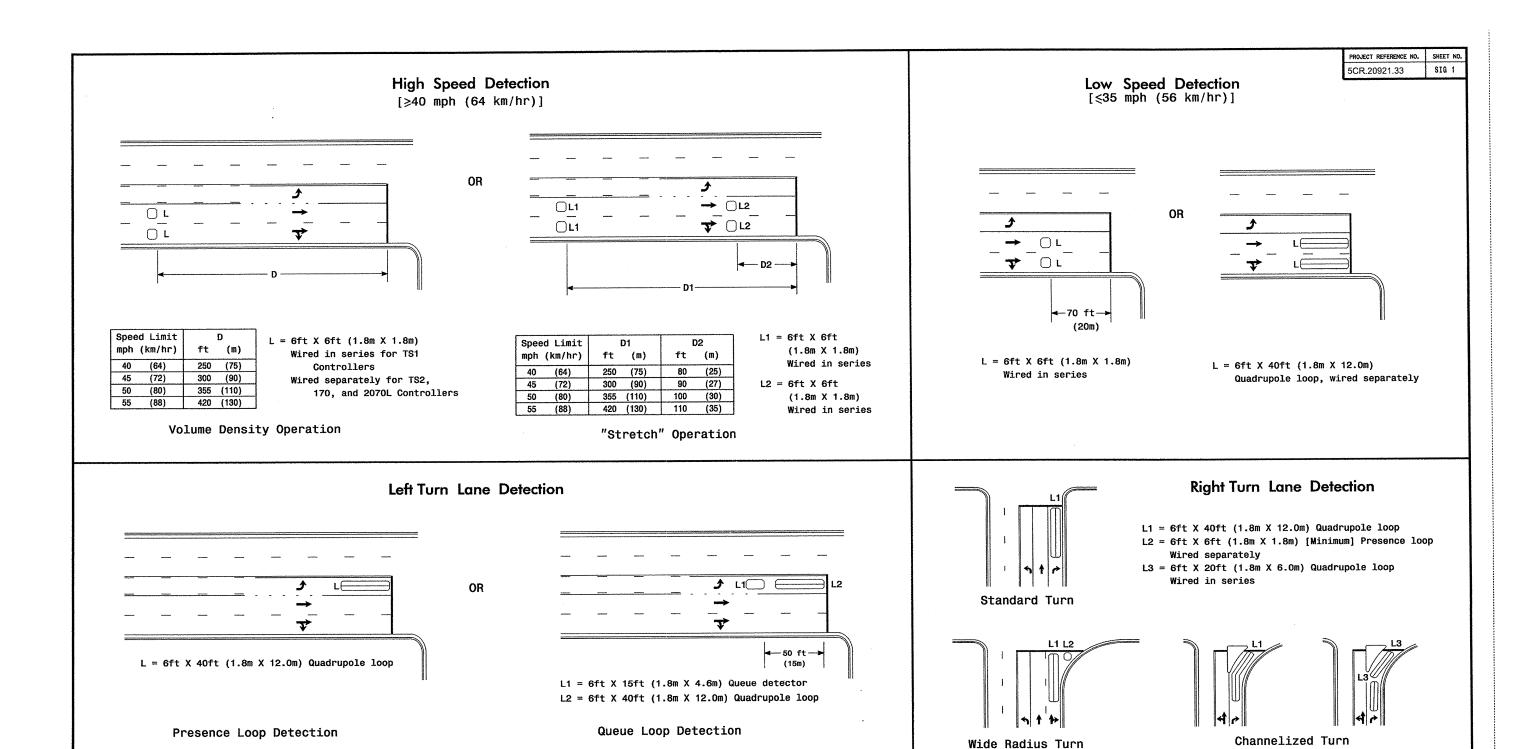




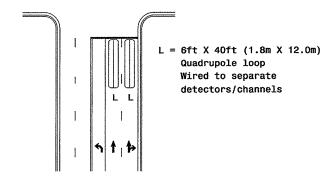
MOVING OPERATION CARAVAN

(OPERATIONS TRAVELING 3 MPH OR FASTER)
PLACING PAVEMENT MARKING OR MARKERS
ON NON-INTERSTATE MULTILANE DIVIDED ROADWAYS

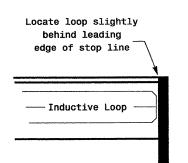
DRAWING NUMBER 7
IMPLEMENTATION DATE: 07/01/97
REVISED: 11/03/04







Presence Loop Placement at Stop Lines



Note: Loop may be located in advance of stop line when stop line is greater than 15' (4.5m) from edge of intersecting roadway; or, when loop detects a permissive or protected/permissive left turn.

Recommended Number of Turns

Single 6' X 6' (1.8m X 1.8m)

Toob (ATLER SE	Jaracery).
Length of Lead-in ft (m)	Number of Turns
< 250 (75)	3
250-375 (75-115)	4
375-525 (115-160)	5
> 525 (160)	6

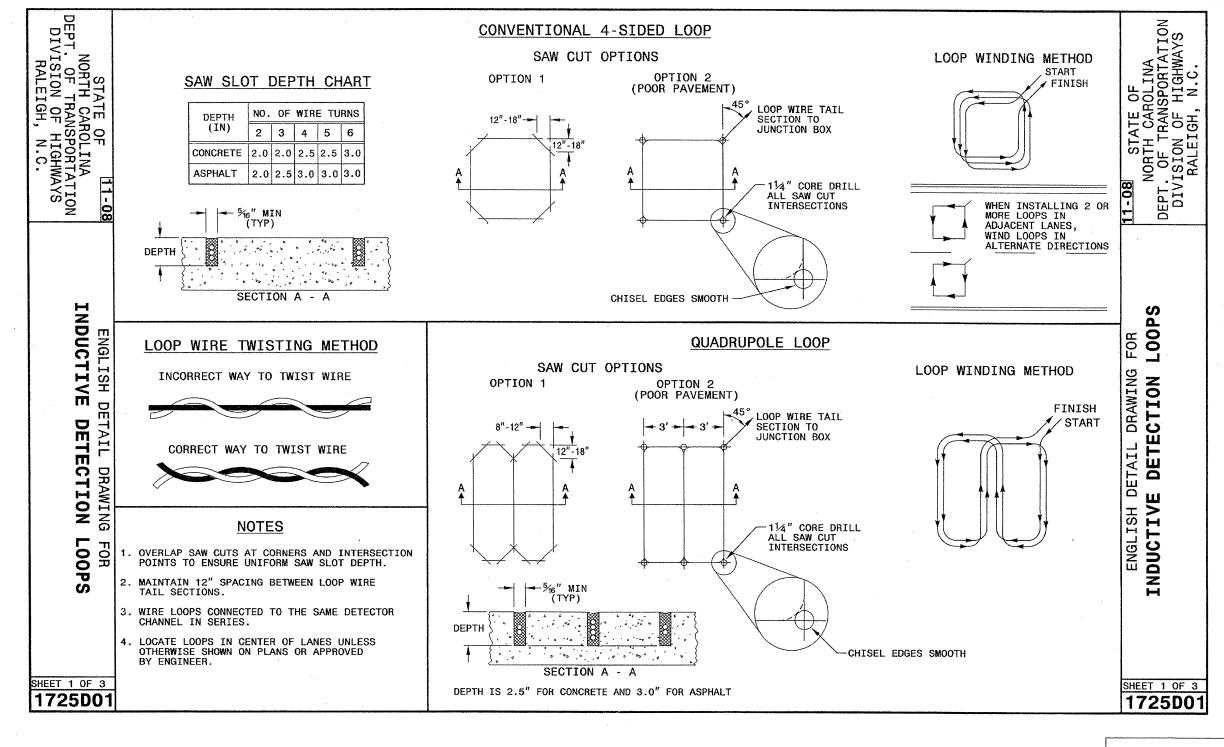
Quadrupole loops: Use 2-4-2 turns 6' X 15' (1.8m X 4.6m) Loops: Lead-in < 150' (45 m), use 2 turns Lead-in > 150' (45 m), use 3 turns

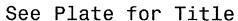


Typical Loop Locations

PLAN DATE: June 2006 REVIEWED BY: PREPARED BY: P L Alexander REVIEWED BY: REVISIONS 7 Revise pavement marKings

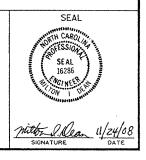
SCALE N/A

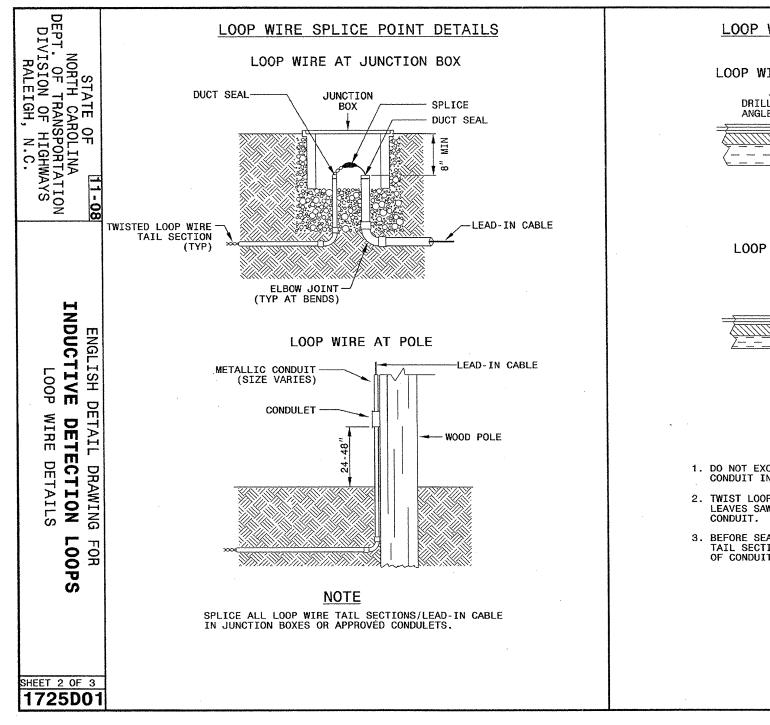






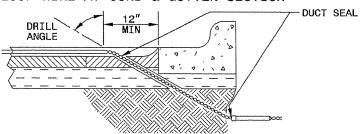
750 N. Greenfield Parkway Garner, NC 27529



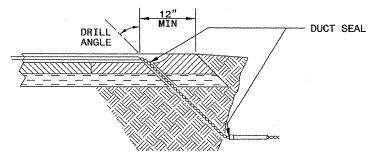


LOOP WIRE PAVEMENT EDGE DETAILS

LOOP WIRE AT CURB & GUTTER SECTION



LOOP WIRE AT PAVEMENT SECTION



NOTES

- 1. DO NOT EXCAVATE UNDER CURB AND GUTTER SECTIONS FOR CONDUIT INSTALLATION.
- 2. TWIST LOOP WIRE TAIL SECTIONS FROM WHERE LOOP WIRE TAIL LEAVES SAW CUT TO JUNCTION BOX, INCLUDING THROUGH CONDUIT.
- 3. BEFORE SEALING LOOPS, INSTALL DUCT SEAL WHERE LOOP WIRE TAIL SECTION LEAVES SAW CUT IN PAVEMENT AND AT ENTRANCE OF CONDUIT TO JUNCTION BOX.

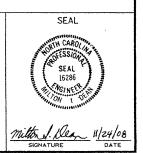
11-08 STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

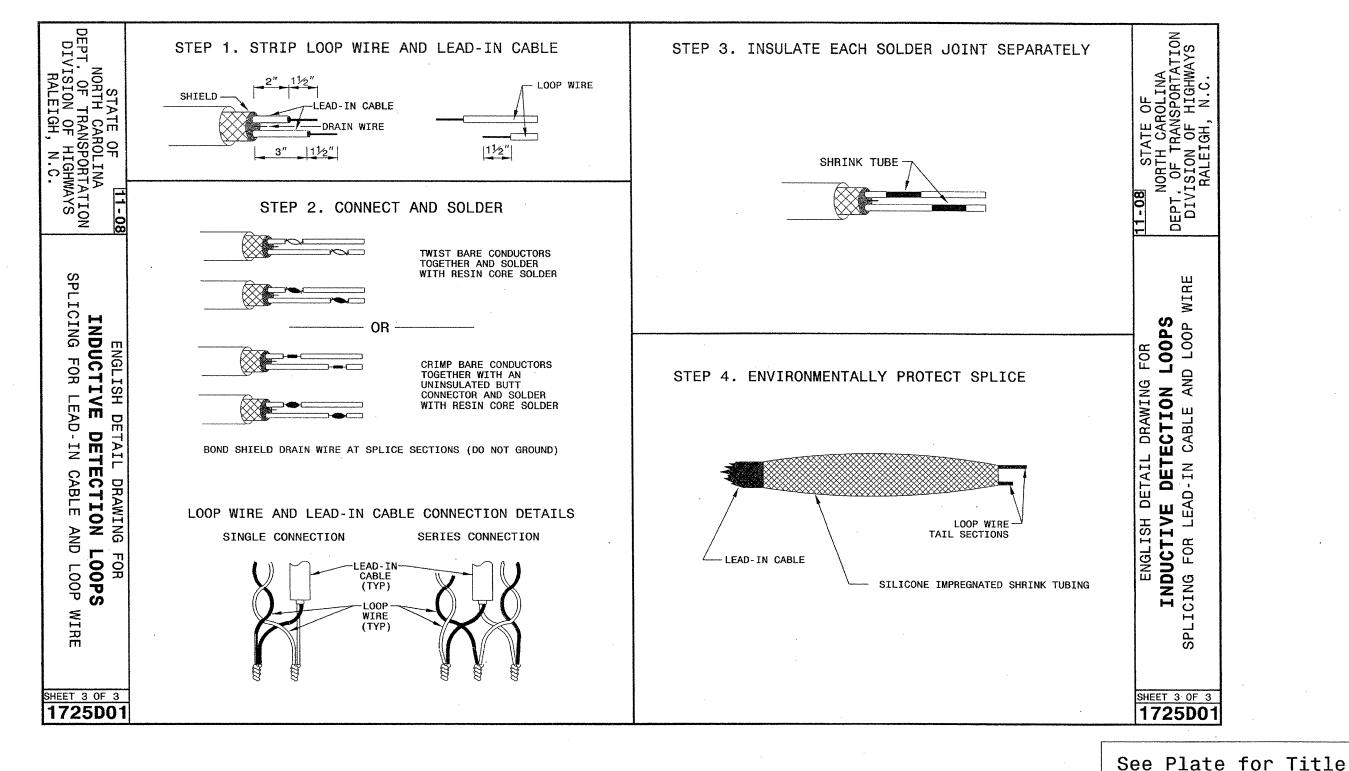
FOR LOOPS ENGLISH DETAIL DRAWING DUCTIVE DETECTION LOOP WIRE DETAILS INDUCTIVE LOOP

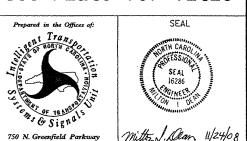
SHEET 2 OF 3 1725D01

See Plate for Title









Garner, NC 27529

c4*MOV=2000 U3:30 48*YORK files*0-standord plate sheets*17250103_moy/