

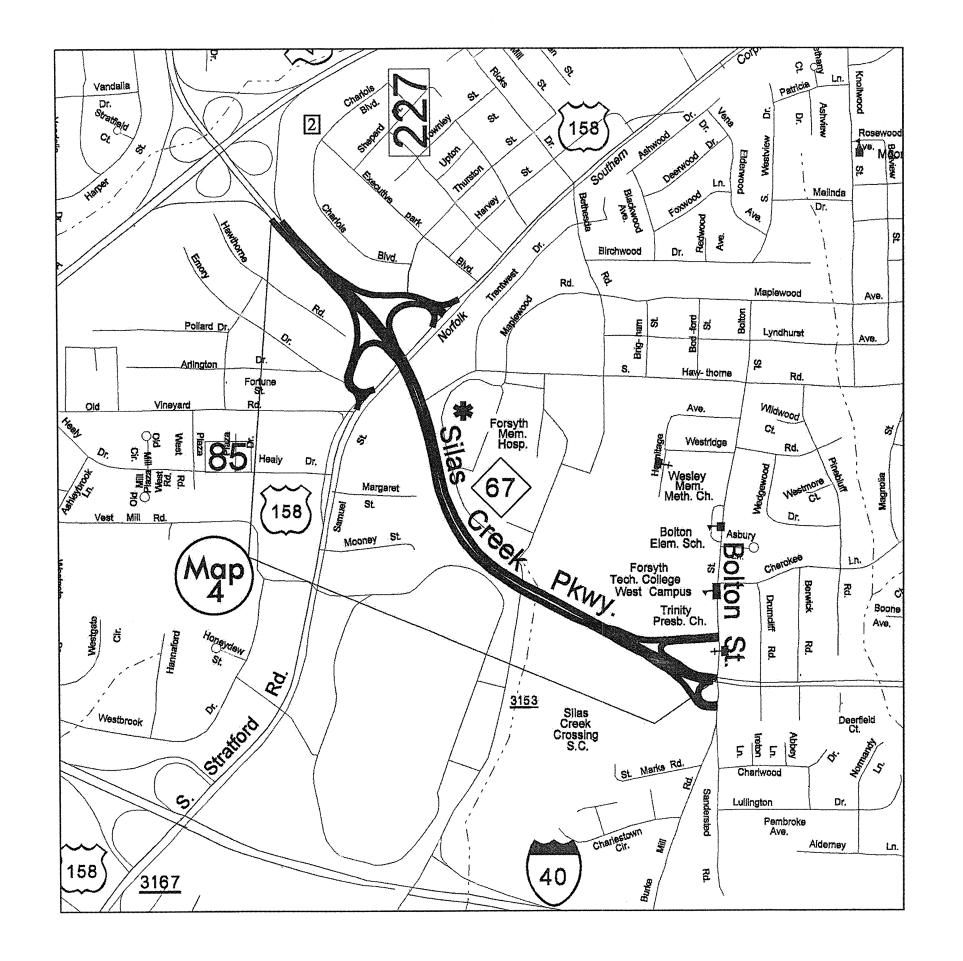
MAP NO.1 US 158
0-1½" MILL AT ALL CURB AND MEDIAN 6'
WIDTH.
IN THE 4 LANE SECTION MILL RIGHT TRAVEL
LANES BOTH NORTH BOUND AND SOUTH BOUND
LANES A 2" DEPTH FROM GREENSBORO RD TO
PVMT JT. NEAR BUS 40 RAMPS AND FILL
WITH 2" 119.0C. PAVE OVER ALL LANES
WITH 1½" \$9.5C

MAP NO.2 0-1½" MILL AT ALL CURB AND MEDIAN 6' WIDTH.

MAP NO.3
0-1½" MILL AT ALL CURB AND MEDIAN 6' WIDTH.

MAP 1 MAP 2 MAP 3

FORSYTH COUNTY NORTH CAROLINA





MAP NO.4
INCLUDING RAMPS AT BOLTON STREET AND
STRAFFORD ROAD

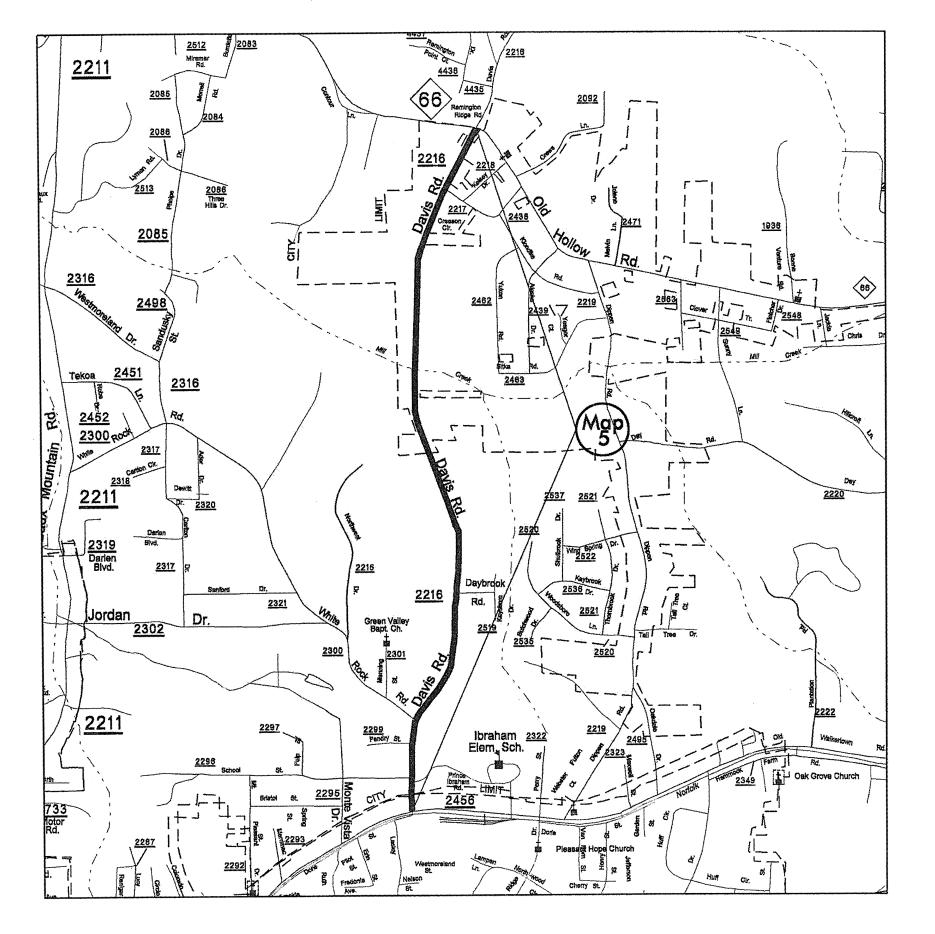
ALL WORK ON THIS MAP WILL BE AT NIGHT TIME 8 P.M. TO 6 A.M. ONLY.

0-1½" MILL AT ALL CURB AND MEDIAN 6' WIDTH.

MILL LEFT TURN LANES WEST BOUND TO HANES MALL BLVD. 2". PAVE BACK WITH 2" 119.0C. OVERLAY ALL LANES WITH 1½" \$9.5C.

MAP 4

FORSYTH COUNTY

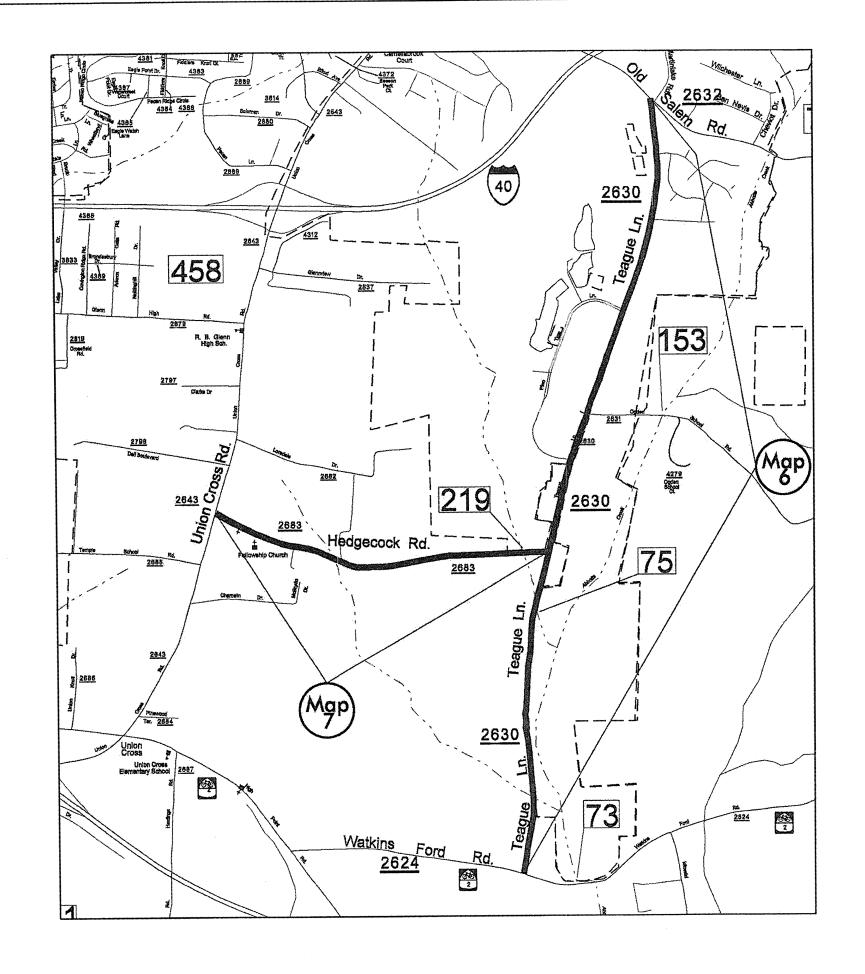


NOTE:

MAP NO. 5
2' WIDENED AREAS TO BE DETERMINED AND
MARKED BY NCDOT FORSYTH MAINTENANCE

MAP 5

FORSYTH COUNTY
NORTH CAROLINA



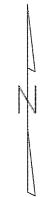


NOTES:

MAP NO.6 0-1/2" MILL AT ALL CURB 6' WIDTH

> MAP 6 MAP 7

FORSYTH COUNTY

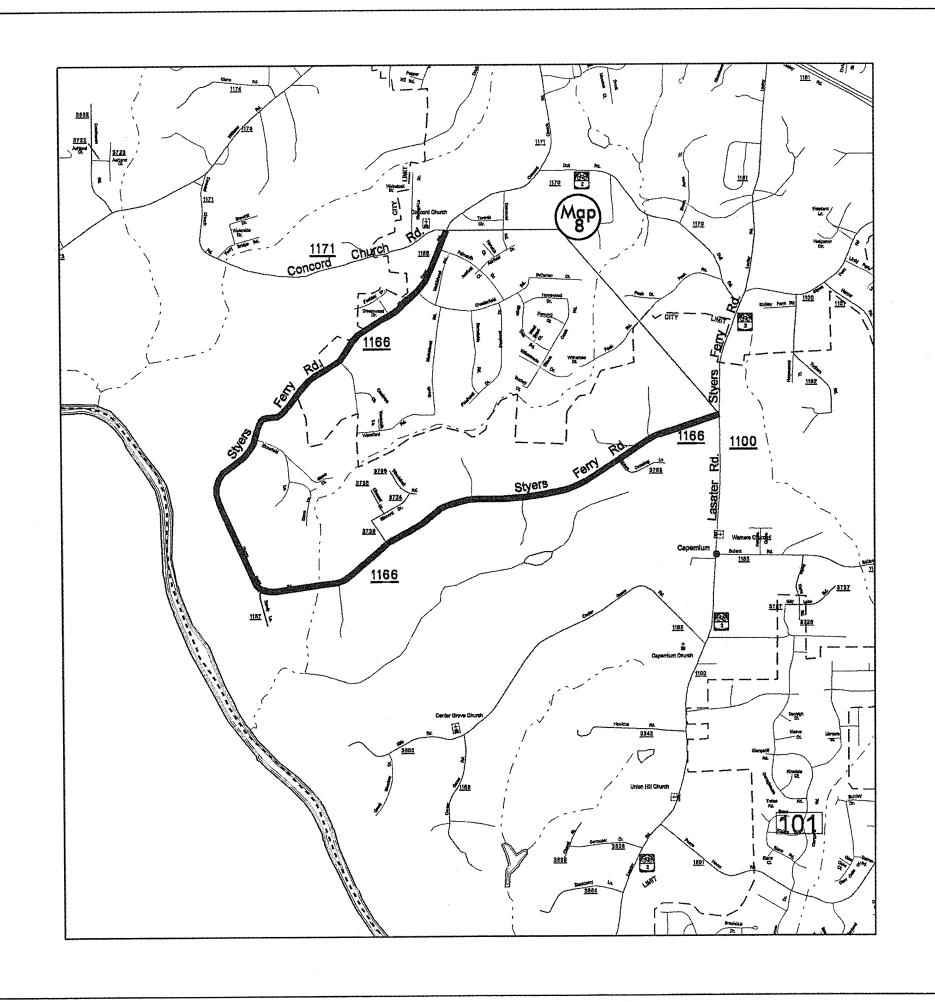


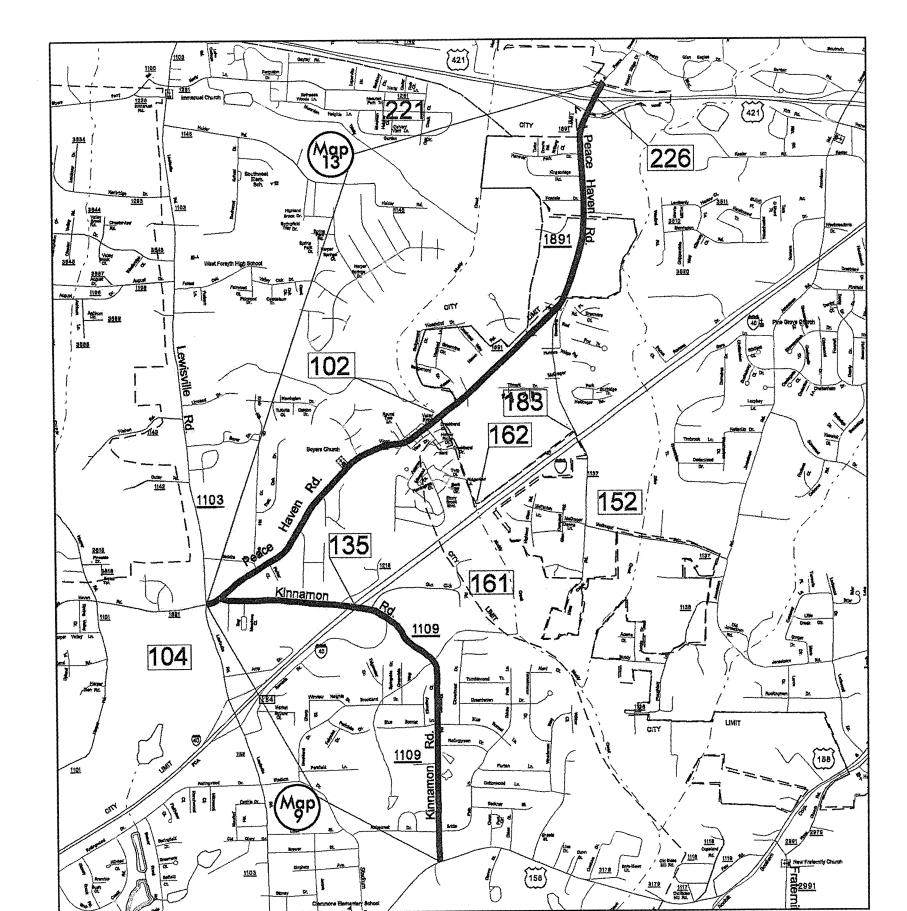
NOTE:

MAP 8
ROAD TO BE WIDENED TO 22'
BY STATE FORCES.

MAP 8

FORSYTH COUNTY





MOTE:
MAP NO.9
MILL APPROACHES TO BRIDGE NO.135
0"-1½" AT I-40 FOR 200' EACH SIDE.
MILL 1½" DEPTH LEFT TURN LANE TO US 158.
0"-1½" MILL AT ALL CURB AND MEDIANS 6'
WIDTH.

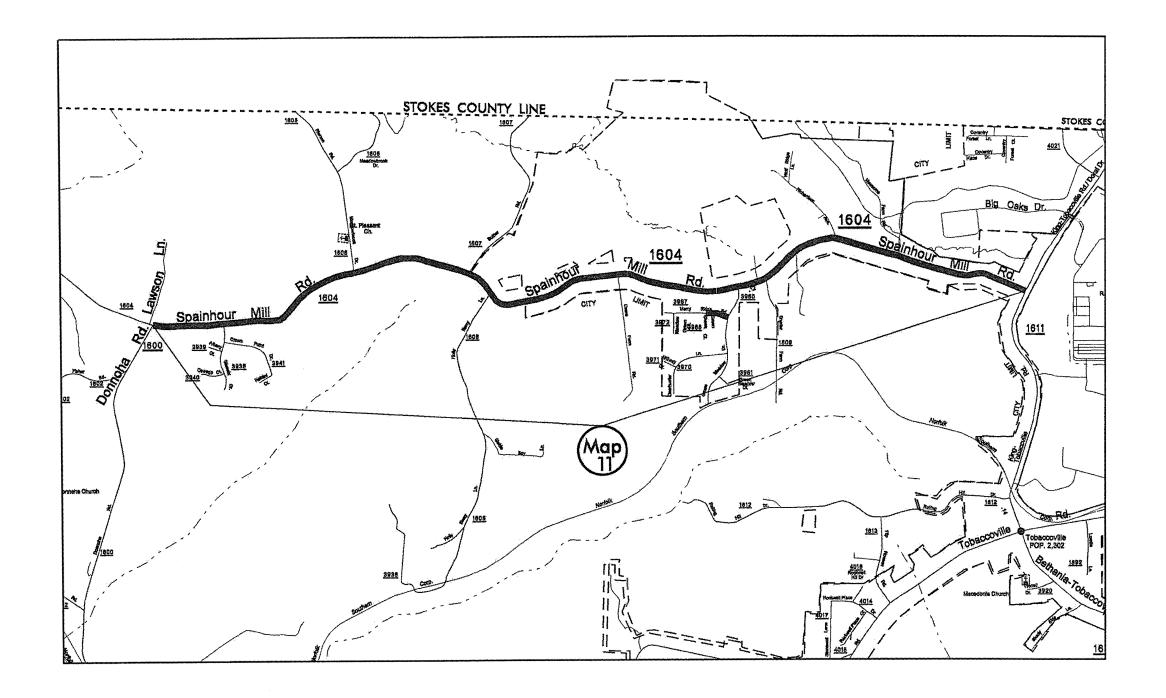
MAP NO.13
AT NORTH PVMT JOINT WHERE MAP BEGINS MILL 1½" TO 5" AT BRIDGE NO. 226, PAVE BACK WITH 3" 119.0B.
MILL BRIDGE NO. 226 1½" DEPTH.
MILL SOUTHSIDE OF APPROACH TO BRIDGE NO. 226 1½" TO 5" DEPTH.
MILL APPROACHES TO BRIDGE NO. 102
1½" DEPTH FOR 200'.
0-1½" MILL AT ALL CURB AND MEDIANS 6' WIDTH.
PAVE OVER ENTIRE MAP WITH 1½" \$9.5B.

MAP 9 MAP 13

FORSYTH COUNTY

<u>1620</u> Tobaccoville LIMIT

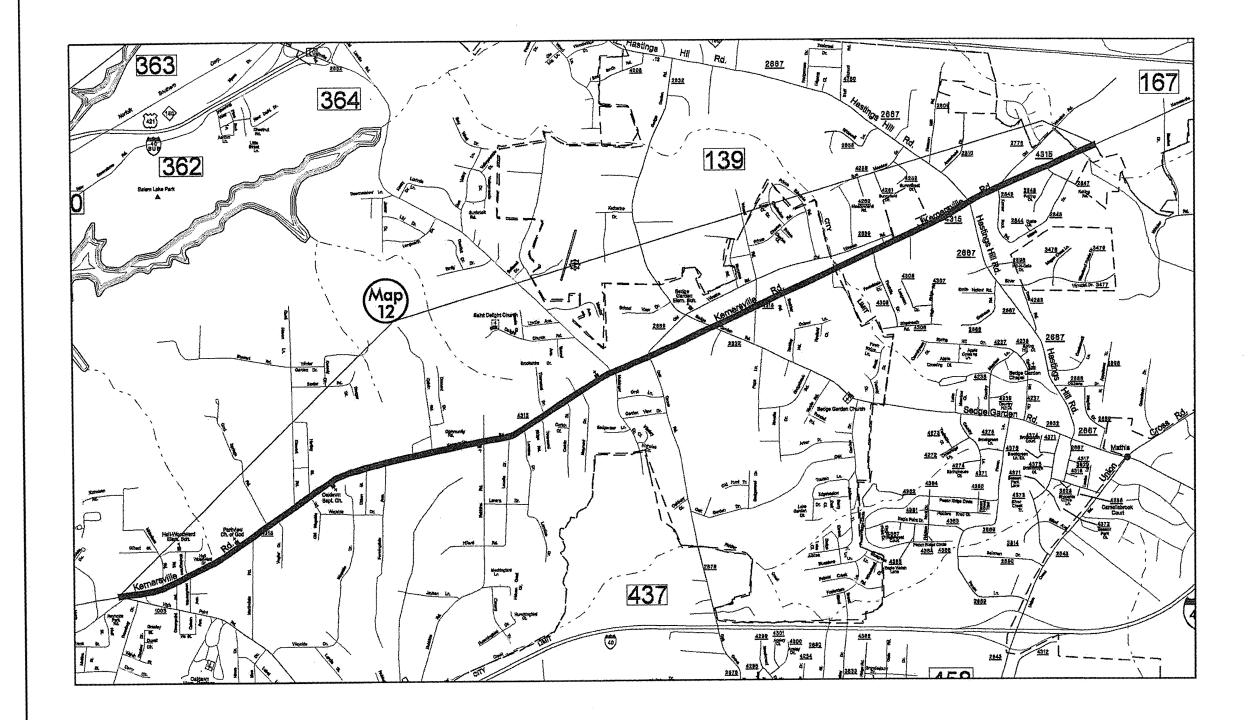
FORSYTH COUNTY





MAP 11

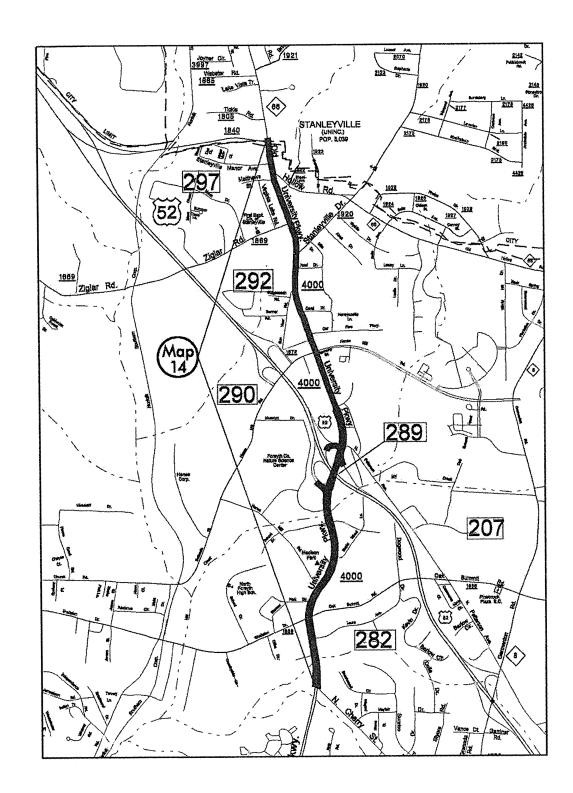
FORSYTH COUNTY NORTH CAROLINA

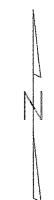


NOTE: MILL 0-11/2" ALL CURB 6' WIDTH

MAP 12

FORSYTH COUNTY
NORTH CAROLINA





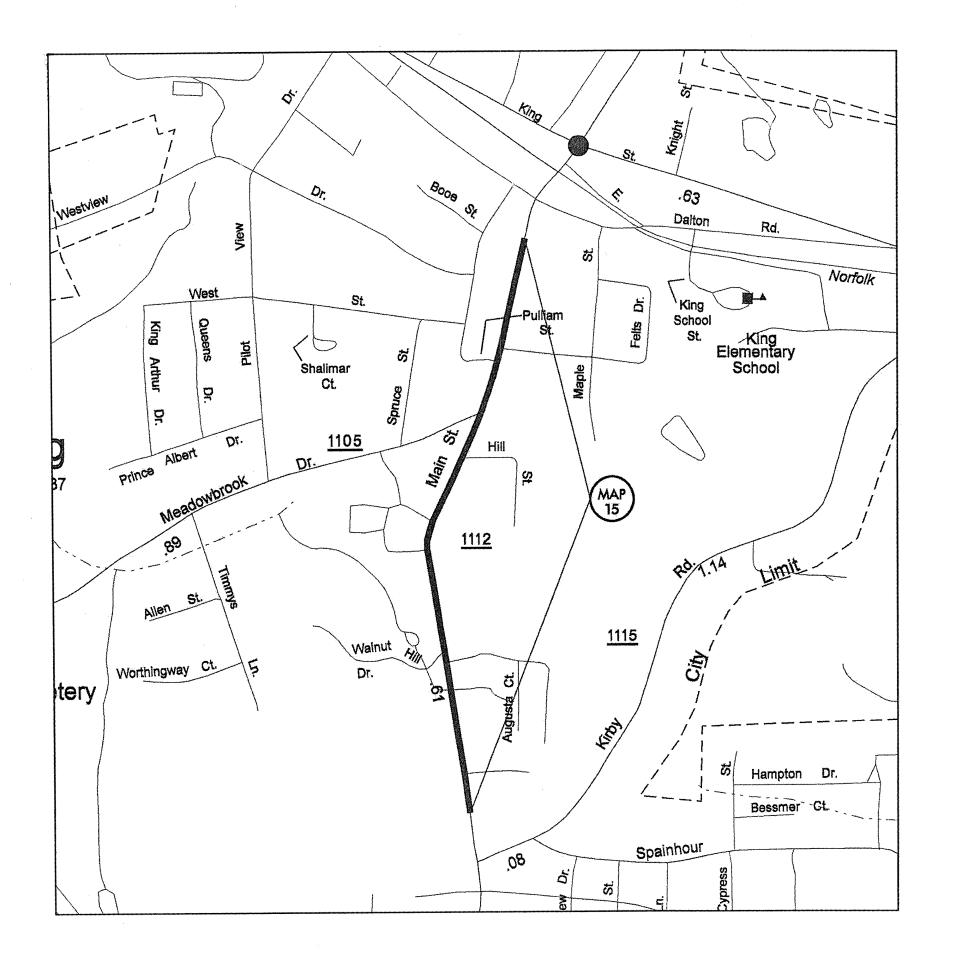
NOTE: ALL WORK ON THIS MAP WILL BE AT NIGHT TIME 8 P.M. TO 6 A.M. ONLY.

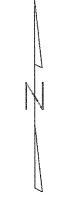
0-11/2" MILL AT ALL CURB AND MEDIAN 6' WIDTH.

MILL 1½" FULL DEPTH 300' EACH SIDE
OF BRIDGE NO. 289 AT US 52.
TIE IN PAVEMENT AT RAMPS AT CONCRETE
PVMT. JOINTS.
TIE IN NORTH BOUND US 52 OFF RAMP
TO SOUTH BOUND UNIVERSITY PARKWAY
AT PVMT JOINT AT THE BOTTOM OF THE RAMP.

MAP 14

FORSYTH COUNTY NORTH CAROLINA

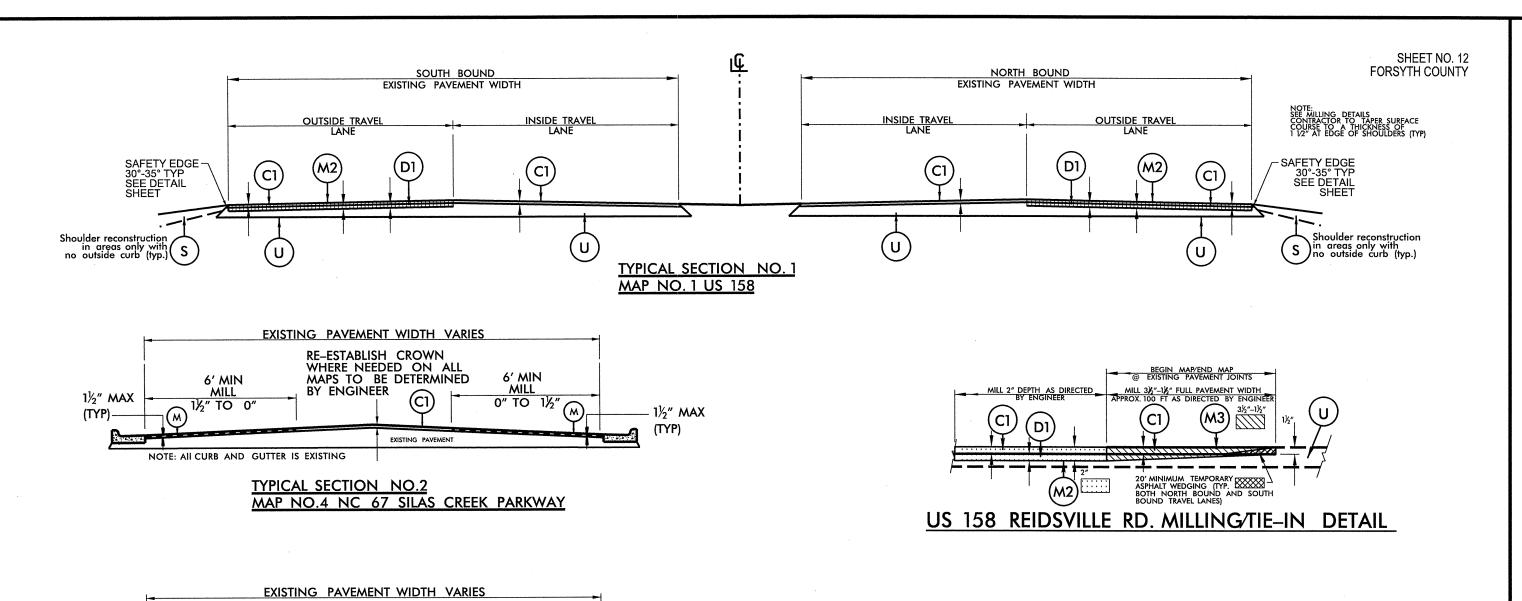


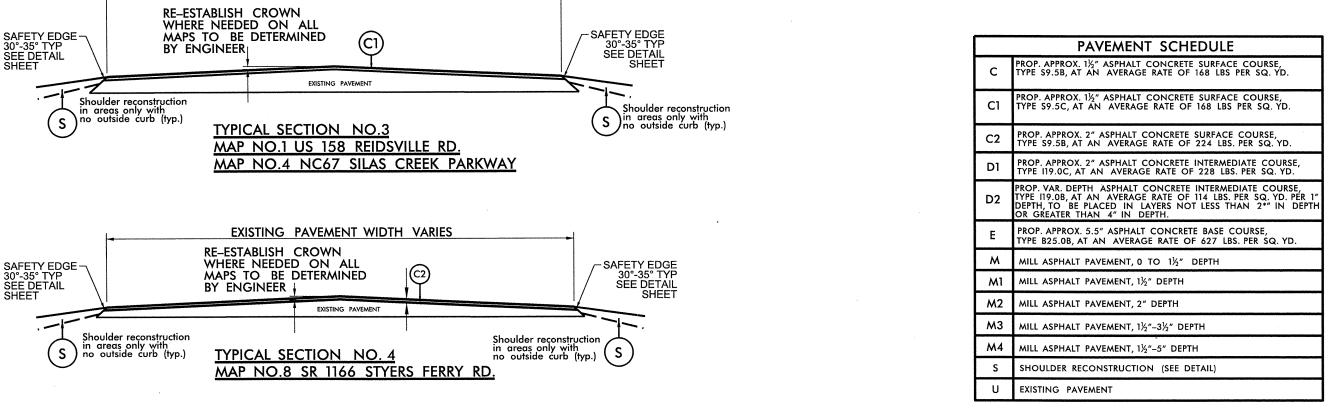


NOTE: MILL 0-11/2" ALL CURB 6' WIDTH

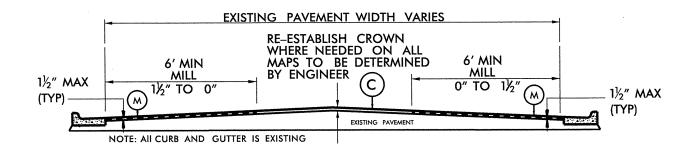
MAP 15

STOKES COUNTY









TYPICAL SECTION NO.5

MAP NO.2 US 311 NEW WALKERTOWN RD.

MAP NO.3 NC 66 OLD HOLLOW RD.

MAP NO.6 SR 2630 TEAGUE LANE

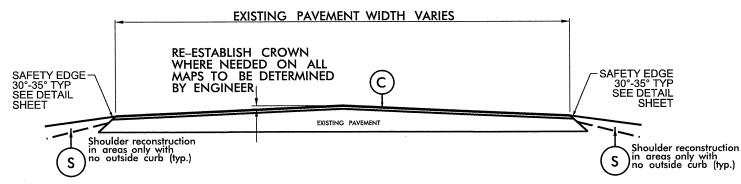
MAP NO.9 SR 1109 KINNAMON RD.

MAP NO.12 SR 4315 KERNERSVILLE RD.

MAP NO.13 SR 1891 PEACE HAVEN RD.

MAP NO.14 SR 4000 UNIVERSITY PARKWAY

MAP NO.15 SR 1112 MAIN ST.



TYPICAL SECTION NO.6

MAP NO.2 US 311 NEW WALKERTOWN RD.

MAP NO.3 NC 66 OLD HOLLOW RD.

MAP NO.5 SR 2216 DAVIS RD.

MAP NO.6 SR 2630 TEAGUE LANE

MAP NO.7 SR 2683 HEDGECOCK RD.

MAP NO.9 SR 1109 KINNAMON RD.

MAP NO.10 SR 1620 TOBACCOVILLE RD.

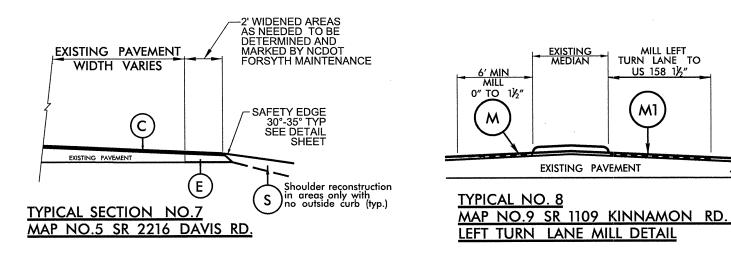
MAP NO.11 SR 1604 SPAINHOUR MILL RD.

MAP NO.12 SR 4315 KERNERSVILLE RD.

MAP NO.13 SR 1891 PEACE HAVEN RD.

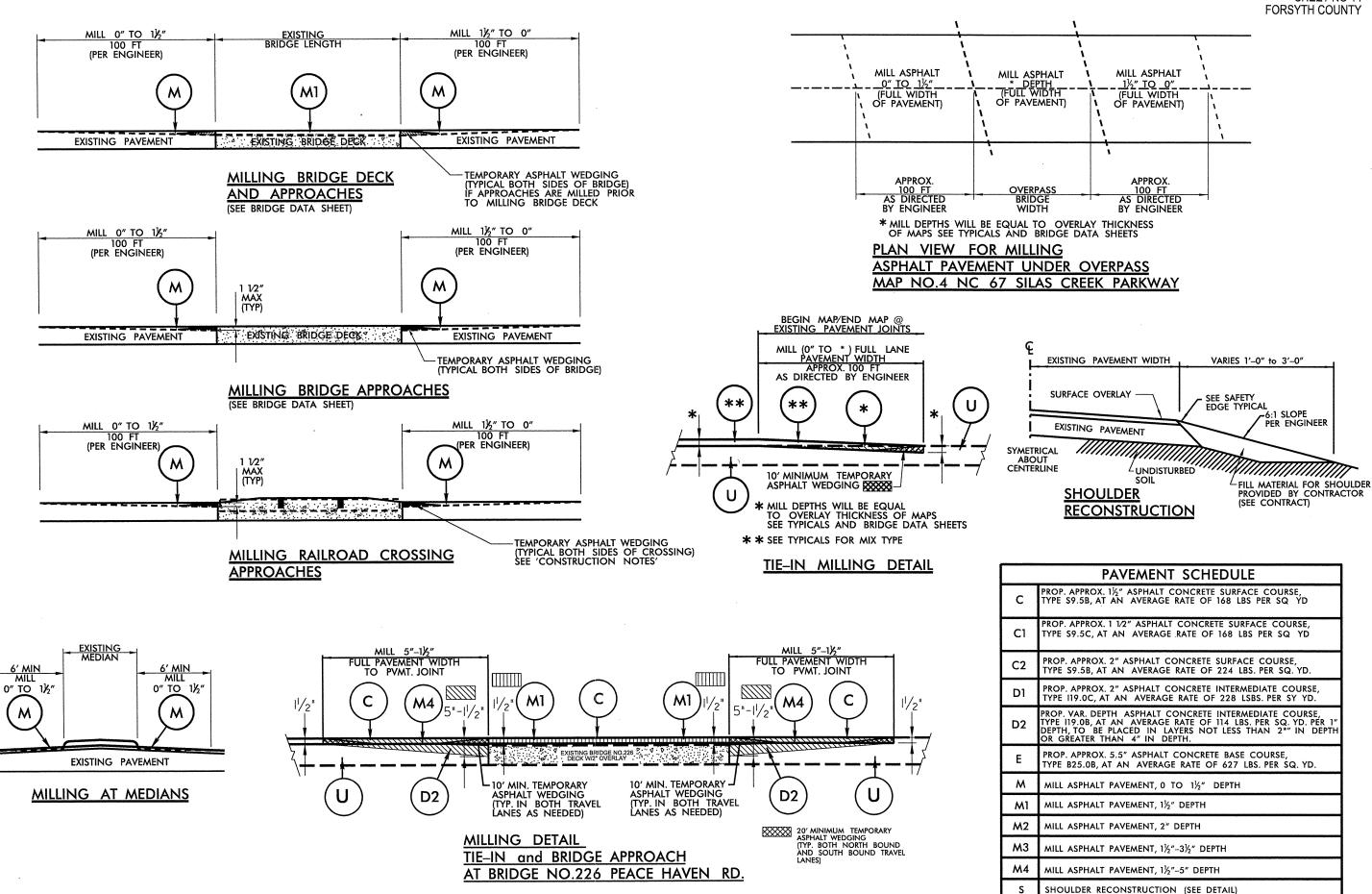
MAP NO.14 SR 4000 UNIVERSITY PARKWAY

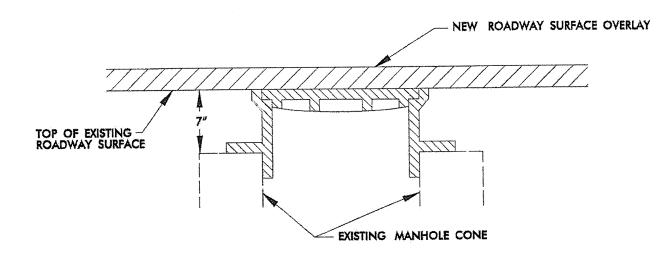
MAP NO.15 SR 1112 MAIN ST.



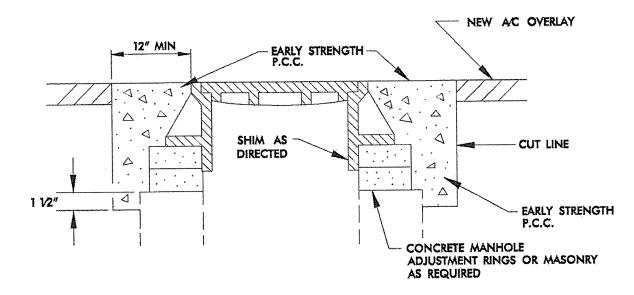
	PAVEMENT SCHEDULE
С	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D1	PROP.APPROX. 2" ASPHALT CONC. INTERMEDIATE COURSE, TYPE 119.0C, AT AN AVERAGE RATE OF 228 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 119.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2*" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
М	MILL ASPHALT PAVEMENT, 0 TO 1½" DEPTH
M1	MILL ASPHALT PAVEMENT, 1½" DEPTH
M2	MILL ASPHALT PAVEMENT, 2" DEPTH
М3	MILL ASPHALT PAVEMENT, 1½"-3½" DEPTH
M4	MILL ASPHALT PAVEMENT, 1½"-5" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT

EXISTING PAVEMENT





STEP 1



STEPS 2,3, & 4

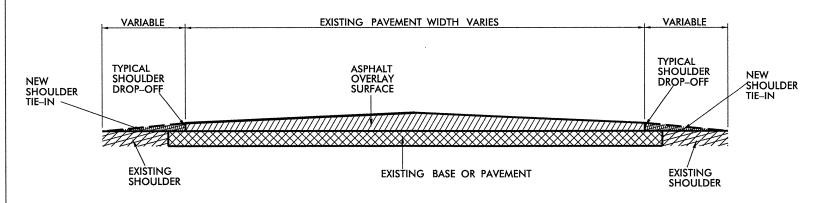
- STEP 1 COVER EXISTING MANHOLE WITH APPROVED MATERIAL AND CONSTRUCT OVERLAY ACROSS TOP OF MANHOLE
- STEP 2 SAW CUT EXCAVATION AROUND MANHOLE 12" MIN. FROM MANHOLE FRAME.
- STEP 3 RAISE MANHOLE FRAME RINGS TO FINISH PAYEMENT PROFILE AND CROSS SLOPE.
- STEP 4 BACKFILL WITH EARLY STRENGTH P.C.C. TO DEPTHS AS DIRECTED.

MANHOLE ADJUSTMENT DETAIL

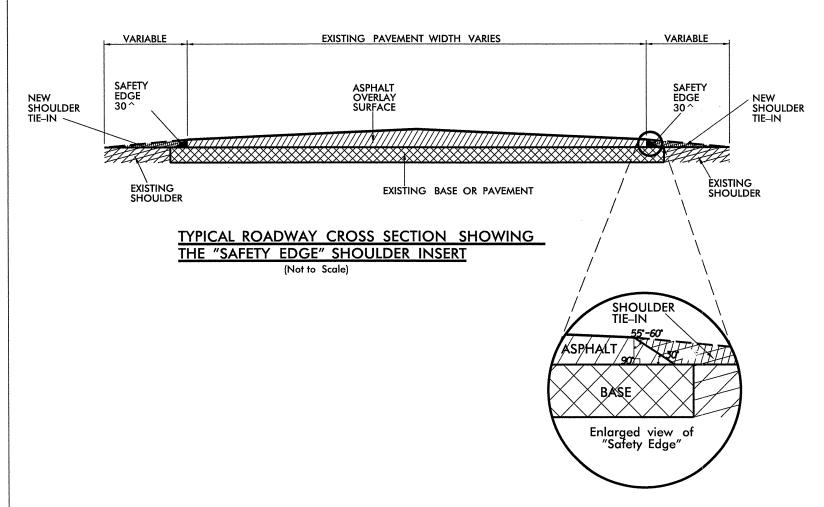
SHEET NO 15 FORSYTH COUNTY

CONSTRUCTION NOTES:

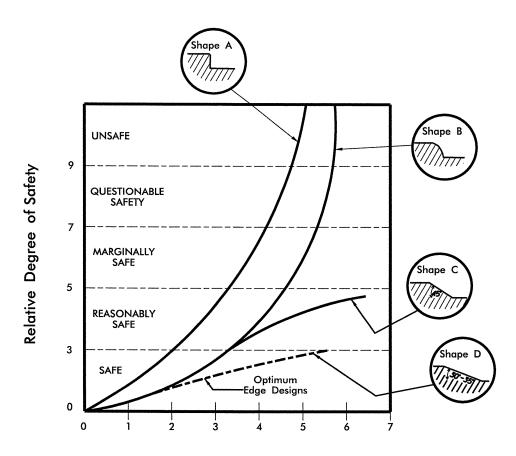
- 1. ALL QUANTITIES ARE "ESTIMATED" AS INDICATED IN THE "SUMMARY OF QUANTITIES".
- 2. CONSTRUCTION SHALL PROGRESS IN PHASES, IN THE ORDER INDICATED BELOW:
 - PHASE 1 MILLING AND PATCHING (WHEN REQUIRED)
 - PHASE 2 LEVELING (AS DIRECTED BY ENGINEER)
 - PHASE 3 SURFACE OVERLAY
 - PHASE 4 SHOULDER DROP-OFF REPAIR (AS NEEDED AND DIRECTED BY ENGINEER)
 - PHASE 5 UTILITY ADJUSTMENTS (MANHOLE RING/COVER, VALVE/METER BOX RING/COVER, CATCH BASIN GRATE/COVER, DROP INLET GRATE/COVER, ETC.)
 WHEN REQUIRED.
- 3. BRIDGES THAT HAVE FLOOR DRAINS, SHALL HAVE ALL FLOOR DRAINS LEFT OPEN. EXTRA CARE SHALL BE EXERCISED IN MILLING (IF REQUIRED) AND IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE.
- 4. TEMPORARY ASPHALT WEDGING SHALL BE PLACED ON THE SAME DAY THAT BRIDGE AND/OR RAILROAD APPROACHES ARE MILLED (AND IF APPROACHES ARE MILLED PRIOR TO BRIDGE DECK).
- 5. SOME MAPS MAY REQUIRE EXTRA ASPHALT SURFACE (LEVELING) TO BE PLACED TO ELIMINATE UNEVEN PAVEMENT, WASHBOARDING OR TO RE-ESTABLISH THE CROWN. THE QUANTITY AND LOCATION OF THIS ITEM SHALL BE AS DIRECTED BY THE ENGINEER.
- 6. FOR TWO-LANE ROADWAYS IT SHALL BE UNDERSTOOD THAT TYPICALLY ON A ROADWAY MEASURING 20 FEET OR LESS IN WIDTH, THE CENTER OF THE WHITE EDGELINE SHALL BE LOCATED SIX INCHES FROM THE EDGE OF PAVEMENT ON EITHER SIDE OF THE ROADWAY; ON A ROADWAY MEASURING 22 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 10 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 24 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 11 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 26 FEET OR MORE IN WIDTH, TRAVEL LANES SHALL MEASURE 12 FEET AND THE WHITE EDGELINE SHALL BE LOCATED NO LESS THAN ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE, THIS SHALL BE STANDARD PRACTICE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 7. PAPER JOINTS ARE TO BE PLACED BETWEEN DAYS OF PAVING OPERATIONS AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 610-11.
- 8. ALL MILLED AREAS WILL BE PAYED WITHIN 72 HOURS UNLESS APPROVED BY THE ENGINEER.
- 9. REPLACE ANY PORTION OF STOP BARS AND OTHER PAVEMENT MARKINGS
 AT ANY INTERSECTION INCLUDING Y-LINES NOT ACTUALLY BEING PAVED
 OVER, THAT ARE OBLITERATED BY THE PAVING OPERATION EITHER BY
 HAULING WHEEL TRACKS OR TACK TRUCK BY THE END OF EACH RESURFACING
 OPERATION



TYPICAL ROADWAY CROSS SECTION

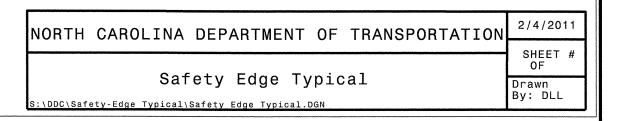


The purpose of the "Safety Edge" is to reduce pavement edge drop off hazards.



Longitudinal Edge Elevation Change (inches)

*Source: Zimmer and Ivey, Texas Transportation Institute.

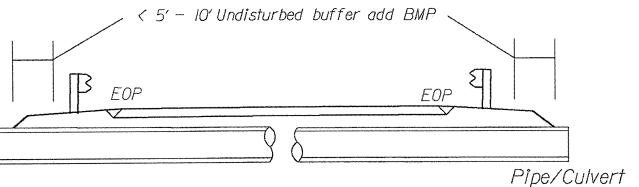


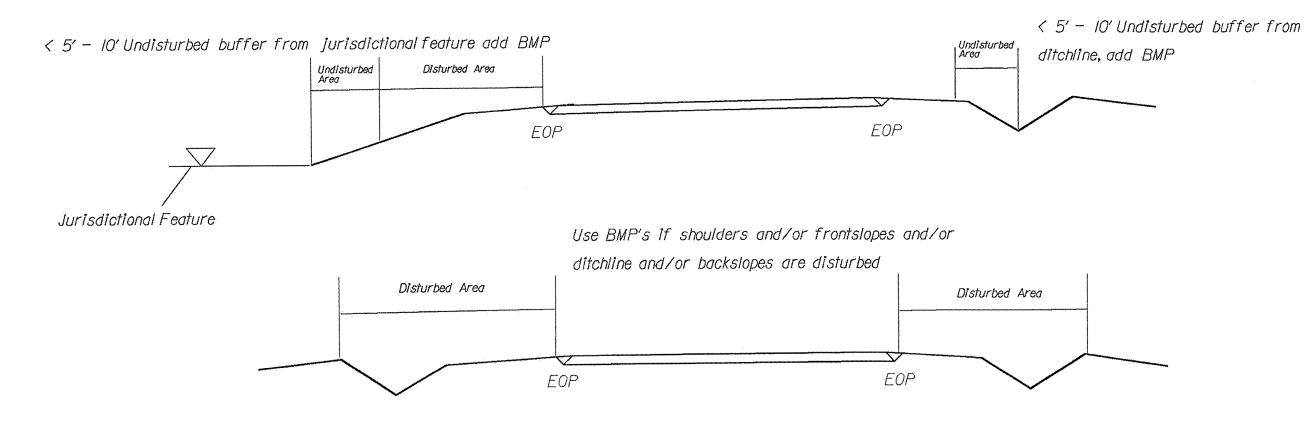
Forsyth County 2012 Resurfacing Bridge List

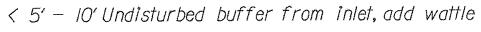
		Forsy	th Cou	nty 2012 Res	urfacing l	Bridge List		PROJECT	NO.	SHEET NO.	TOTAL NO.
		•		•				9CR.10341.9,9CR 9CR.20851		17	
Map No.	Route No.	Route Name	Bridge No.	Feature Intersected	Floor Construction	Clear Roadway Width (Ft)	Horizontal Clearance Under (Ft.)	Vertical Clearance Under	Length (Ft)	Posting	Recommended Treatment, From Bridge Maintenance
4	US 158	US 158/ STRATFORD RD.	85	NC 67 SILAS CREEK PARKWAY	7 3/4" RC SLAB	I 57 I NA		18FT 05 IN SBL 18FT 06 IN NBL	214	N/A	MILL APPROACHES Mill down and repave under bridge
4	SOUTHERN RXR	SOUTHERN RXR	301	NC 67 SILAS CREEK PARKWAY	RC SLAB	NA	NA	14FT 11 IN NC67WBL 15FT 06 IN NC67EBL	214	N/A	MILL APPROACHES Mill down and repave under bridge
4	BOLTON ST.	BOLTON ST.	294	NC 67 SILAS CREEK PARKWAY	7 5/8" RC 40 SLAB		NA	14FT 09 IN SBL 14FT 09 IN NBL		Not Posted	No Treatment Map ends before Bridge
6	SR 2630	TEAGUE LANE	75	ABBOTTS CREEK	PPCCS, 4 AWS	42	NA	NA 80		Not Posted	MILL APPROACHES Mill bridge deck 1.5" and pave back
7	SR 2683	HEDGECOCK RD.	219	BRANCH ABBOTTS CREEK	4X8TIM, 2.0 AWS	24	NA	NA 26		Not Posted	MILL APPROACHES Mill bridge deck 1.5" and pave back
9	SR 1109	KINNAMON RD.	135	1-40	7 RC SLAB	24	NA	NA 366		Not Posted	Mill Approaches, Do not pave on bridge
13	SR 1891	PEACE HAVEN RD.	226	US 421	7.25 RC, 2 AWS	28	NA:	NA	231	Not Posted	MILL APPROACHES Mill bridge deck 1.5" and pave back
13	SR 1891	PEACE HAVEN RD.	102	MUDDY CREEK	8 RC SLAB	30	NA	NA 202		Not Posted	Mill Approaches; Do not pave on bridge
14	SR 4000	UNIVERSITY PARKWAY	289	US 52	7 1/4 RC SLAB	68	NA	NA	263	Not Posted	Mill Approaches; Do not pave on bridge

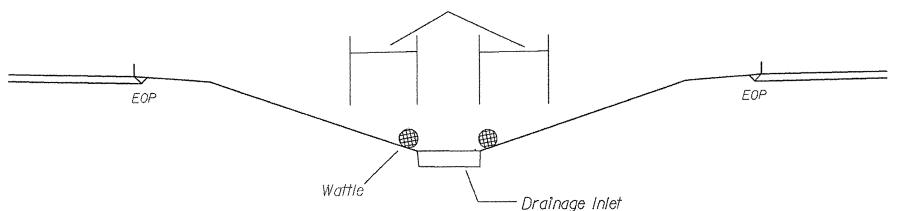
EROSION CONTROL DETAIL

SHEET NO. 18 FORSYTH COUNTY



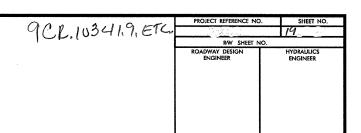


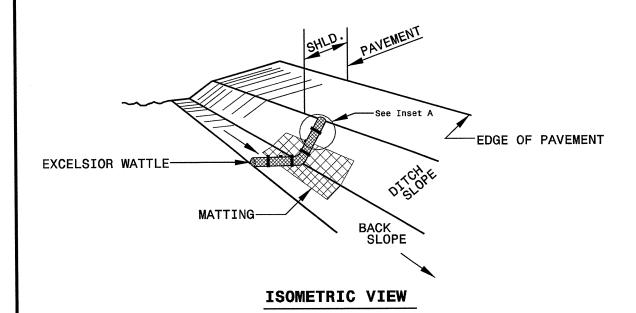


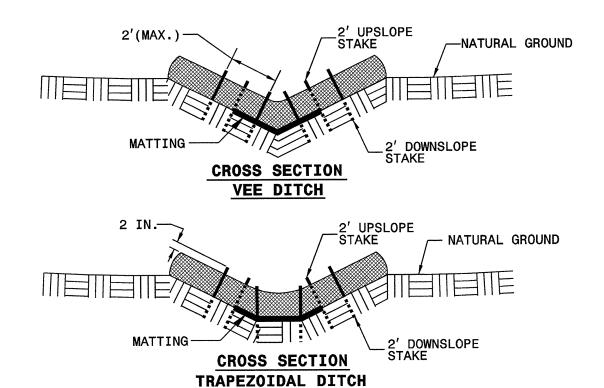


NOT TO SCALE

WATTLE DETAIL







NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

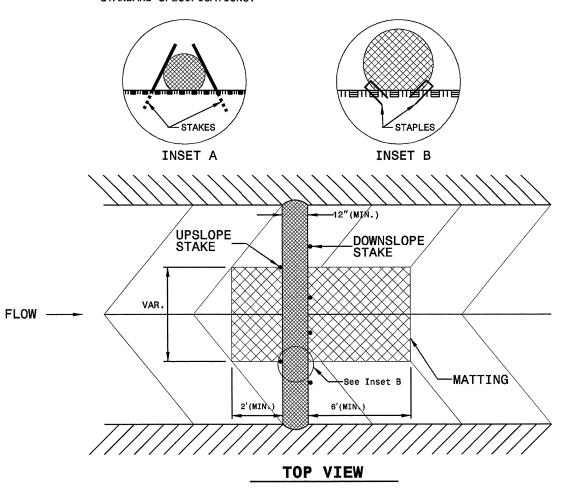
 $\frac{\text{ONLY}}{\text{WASH}}$ Install Wattle(s) to a height in ditch so flow will not wash around wattle and scour ditch slopes and as directed.

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.

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



PROJECT NO.	SHEET NO.	TOTAL NO.
CR.10341.9, 9CR.20341.91	20	
9CR.20851.91,		

SUMMARY OF QUANTITIES

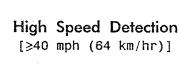
PROJECT COL	OLINITY B																												
	JONIT	МАР	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	LENGTH	WIDTH	INCIDENTAL STONE BASE	SHOULDER	SHOULDER RECONSTRUC TION		MILLING ASPHALT PAVEMENT, 11/2"DEPTH	MILLING ASPHALT PAVEMENT, 0"TO 1 1/2"	MILLING ASPHALT PAVEMENT, 1 1/2"TO 3	MILLING ASPHALT PAVEMENT, 0"TO 2"	MILLING ASPHALT PAVEMENT, 1 1/2"TO 5"	BASE COURSE, B25.0B	INTERMEDIA TE COURSE, 119.0B	1	SURFACE COURSE, S9.5B	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX	TEMPORARY SILT FENCE	INDUCTIVE LOOP	PORTABLE LIGHTING	WATTLES
NO		NO			NO		MI	FT	TONS	CY	SMI	SY	SY	DEPTH	1/2" DEPTH SY	DEPTH SY	DEPTH SY	TONS	TONS	TONS	TONS	TONS	TONS	EA	EA	LF	LF	LS	LS
		***		FROM NC 66 TO PAVEMENT									,						1	10.10	1010	10113	10113	LA		LF .	LF		1.3
			110.450.051D01#11.5.D0	JOINT AT BUS 40/US 421 WB							10.55	40.557		4 704	****														
9CR.10341.9 Fo	orsyth	1 '	US 158 REIDSVILLE RD. US 311- NEW	ON RAMP FROM NC 66 TO CARVER	1,3	NO	5.278	28	240	633	10,56	10,667		1,781	534				 	1,356		9,130	604		8	2,111		ļ	100
		2	WALKERTOWN ROAD	SCHOOL ROAD	5,6	NO	4.176	24	186	485	8.09			1,828							5,837		350	12	9	1,670			100
	1			FROM US 311- NEW																									
		3	NC 66 - OLD HOLLOW ROAD	WLAKERTOWN ROAD TO US 158	5,6	NO	1.37	24	40	116	0.97			4,351							2,455		147		4	548			100
		4	NC 67 - SILAS CREEK PARKWAY NB	FROM PVMT JT @ BOLTON ST BRIDGE OVERPASS TO PVMT JT @ BUS40/US 421 (INCLUDING RAMPS AT BOLTON ST AND STRATFORD RD.)	2,3	NO	1.092	24		50	0.84	3,000	1,200	11,436						270	2,100	0.400		_					
		-+-	PARKWAI IND	FROM PVMT JT @ BOLTON ST	2,3	NO	1.092	24		30	0.84	3,000	1,200	11,430				·····	-	378		3,423	220	6	3	437		11	100
				BRIDGE OVERPASS TO PVMT JT																									
		"		@ BUS40/US 421	2,3	NO	1.092	24		50	0.84		1,367	8,601					ļ			3,537	209	9	3	437			
TOTAL	L FOR PRO	OJ NO. S	9CR.10341.9		<u></u>		13.008	L	466	1,334	21.30	13,667	2,567	27,997	534	L	L		1	1,734	8,292	16,090	1,530	27	27	5,203		L	400
				NC 66 OLD HOLLOW ROAD TO PVMT. JT. OLD WALKERTOWN																									
9CR.20341.91 Fo	orsyth	5	DAVIS ROAD (SR 2216)	ROAD (SR 2456)	6,7	NO	1.926	20	138	231	3.85			334				958	ļ		2,323		182		6	770			100
	l			FROM WATKINS FORD RD (SR 2624) TO OLD SALEM RD. (SR																									
	l	6 1	TEAGUE LANE (SR 2630)	2632)	5,6	NO	2.73	20	30	328	5.46		373	1,858							3,119		187	3	4	1,092			100
				FROM UNION CROSS																									
		7	HEDGECOCK RD. (SR 2683)	RD.(SR2643) TO TEAGUE LANE (SR 2630)	6	NO	1.12	20	69	134	2.24		70	977							1,251		75			440			100
			2003)	FROM CONCORD CURCH RD.	+ • +			1 20	1 05	254	2.24		 						+		1,231		75			448	***************************************		100
			STYERS FERRY RD. (SR	(SR 1171) TO LASATER RD. (SR													·												
	+	8	1166)	1100) FROM PVMT JT NEAR	4	NO	4.11	22	150	493	8.22			<u> </u>		489			 		6,585		395			1,644			100
			KINNAMON RD. (SR	ROUNDABOUT TO STRATFORD																									
		9	1109)	RD. US 158	5,6	NO	1.701	24		204	2.94		567	4,257							2,560		154	5	8	680			100
			TOBACCOVILLE RD	FROM JEFFERSON CHURCH RD (SR1636) TO WESTINGHOUSE																									
		10	(SR1620)	RD (SR1632)	6	NO	1.314	22	57	158	2.63			489							1,576		95			526			100
		11	SPAINHOUR MILL RD (SR 1604)	FROM DORAL DR (SR 1611) TO DONNOHA RD (SR 1600)	6	NO	3.595	24	183	431	7.19			489							4,701		282			1,438			100
				FROM HIGH POINT RD (SR																	1		1			2,700			100
		12	KERNERSVILLE RD SR 4315)	1003) TO CURB AND GUTTER		NO	4.571		224	549	9.14			2,577															
		-12	4313)	FROM PVT JT NORTH OF US 421	5,6	NO	4.371	24	231	549	9.14			2,311					 		6,735		404	13	22	1,828		 	100
		- 1	PEACE HAVEN ROAD (SR	RAMPS TO PVT JT @																									
		13	1891)	LEWISVILLE-CLEMMONS RD	5,6	NO	2.957	22	96	355	5.91		2,053	2,030		<u> </u>	1,173		122		4,409		270	5	14	1,183			100
		1		FROM CHERRY STREET NEAR																									
			UNIVERSITY PARKWAY	TARGET TO NO NAME ROAD																									
		14	(SR 4000)	(SR 1840) (RAMP TO NB US 52)	5,6	NO	2.691	24-72	39	45	0.75		4,700	23,473							9,271		556	33	12	1,076	30,000	*	100
TOTAL F	L FOR PRO	DJ NO. 9	9CR.20341.91				26.715	<u> </u>	993	2,928	48.33	L	7,763	36,484	L	489	1,173	958	122	L	42,530	<u> </u>	2,600	59	66	10,685	30,000	<u> </u>	1000
				FROM TIP PROJECT PVMT. JT. AT KIRBY RD (SR 1115) TO PVMT JT WHERE CURB BEGINS																									
9CR 20851 91 C	Stokes	15	SR 1112-MAIN ST.	NEAR DALTON RD INTERSECTION	5,6	NO	0.736	22	1	15.00	0.25			4,952							1,318		79	_	6	404			
			9CR.20851.91	INTERSECTION	1 3,0	INU	0.736	- 22	 	13.00	0.25		 	4,952		 			 	<u> </u>	1,318	 	79	9	6	404 404		 	
								·		·		·	·			·						*							
	CDAR	ND TOT	TAI	k	1 1		40.459	ł	1,459	4,277	69.88	13,667	10,330	69,433	534	489	1,173	958	122	1,734	E2 140	16 000	4,209	95	99	16 202	30,000	1	1400

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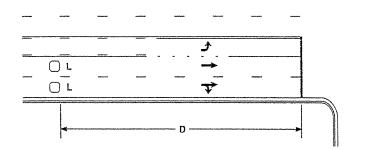
PROJECT NO.	SHEET NO.	TOTAL NO.
9CR.10341.9, 9CR.20341.91	21	
9CR.20851.91		

THERMOPLASTIC AND PAINT QUANTITIES

									TH	IERM	OPLA	SIIC		PAI		.,		3							T	T	.T
П		П					4399000000-N	4510000000-N	468500			0000-E		4697000000-E			00000-E	THERESE	THERE AS COLO	4725000000-I		TUEDAGO CTO	481000			4845000000-N	
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	LENGTH		TEMPORARY	LAW	4" X 90 M	4" X 90 M	4" X 120 M	4" X 120 M	8" X 90 M	8" X 120 M	l	THERMO MSG		ARROW 90			THERMO STR	& LT ARROW	4" YELLOW PAINT	4" WHITE PAINT	24" WHITE PAINT	PAINT LT ARROW	SNOW PLOWABLE
				•			TRAFFIC	ENFORCEMEN	WHITE	YELLOW	YELLOW	WHITE	WHITE THERMO	WHITE THERMO	WHITE THERMO	ONLY 120 W	M M	M M	ARROW 30 W	M M	90 M	90 M	FAIR	r Alliti	I Air	Auton	MARKERS
							CONTROL	T	THERMO	THERMO	THERMO	THERMO	THERINO	HILIMIO	THEMINO												
NO		NO					LS	HR	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA
NO		110																									
				FROM NC 66 TO PAVEMENT JOINT AT					F7 47C		76,885	4,651			270	4		16	8	8	2		2,000				348
9CR.10341.9	Forsyth	1	US 158 REIDSVILLE RD.	BUS 40/US 421 WB ON RAMP	5.278	28	11		57,476		70,883	4,031		 													
		,	US 311- NEW WALKERTOWN ROAD	FROM NC 66 TO CARVER SCHOOL ROAD	4.176	24	*		44,934		47,189	1,643			237			10	3	4	5	1	ļ				551
		+	WALKERTOWN ROAD	NO/A																							
			NC 66 - OLD HOLLOW	FROM US 311- NEW WLAKERTOWN					40.400		18,857	1,334			208			28	2	4	12						90
		3	ROAD	ROAD TO US 158	1.37	24	* .		10,192		18,857	1,334				1											
					ĺ			,																			
				FROM PVMT JT @ BOLTON ST BRIDGE																							
				OVERPASS TO PVMT JT @ BUS40/US																							
			NC 67 - SILAS CREEK	421 (INCLUDING RAMPS AT BOLTON		-		100	8,480	11,337		8,636		3,535	631			19	37	16	11			220	28	8	144
	<u> </u>	4	PARKWAY NB	ST AND STRATFORD RD.) FROM PVMT JT @ BOLTON ST BRIDGE	1.092	24	 	100	0,400	11,557		0,020															
				OVERPASS TO PVMT JT @ BUS40/US		1													1								
		n	и	421	1.092	24	*						ļ					73	50	32	30	1	2,000	220	28	8	144 1,277
T/	TAL EOD I	DPOLNO	D. 9CR.10341.9		13.008			100	121,082		142,931		 	3,535	1,346	4	4	 /3] 30	186	1 30	<u> </u>		220	20	-	1,277
		103110			<u></u>	<u> </u>	<u></u>		134	2,419	13:	9,195			1												
	т	1	T	NC 66 OLD HOLLOW ROAD TO PVMT.	Т	Т	T	T				T	T														
				JT. OLD WALKERTOWN ROAD (SR													- 10										
9CR.20341.91	Forsyth	5	DAVIS ROAD (SR 2216)	2456)	1.926	20	*		20,724	ļ	20,339				220		12	+	-	 	-	+	 		 	 	
																1											
				FROM WATKINS FORD RD (SR 2624)	2.73	20	*		29,375		30,394			100	100		12	2		1							
	<u> </u>	6	TEAGUE LANE (SR 2630) HEDGECOCK RD. (SR	TO OLD SALEM RD. (SR 2632) FROM UNION CROSS RD.(SR2643) TO		20	1		25,575																		
		7	2683)	TEAGUE LANE (SR 2630)	1.12	20	*		12,051		13,470							11		11	-		 				
		1	STYERS FERRY RD. (SR	FROM CONCORD CURCH RD. (SR							40.400														1		
		8	1166)	1171) TO LASATER RD. (SR 1100)	4.11	22	*		44,224	<u> </u>	43,402	 	-	_	 				†								
			KINNAMON RD. (SR	FROM PVMT JT NEAR ROUNDABOUT	_T																						
		9	1109)	TO STRATFORD RD. US 158	1.701	24	*		16,652		21,770				78		<u> </u>	8	3	5	2	-			_	 	_
	+	+-		FROM JEFFERSON CHURCH RD																					1		
			TOBACCOVILLE RD	(SR1636) TO WESTINGHOUSE RD			*		14 120		13,876																
		10		(SR1632)	1.314	22			14,139	 	13,870		1														
	1	11	SPAINHOUR MILL RD (SI 1604)	FROM DORAL DR (SR 1611) TO DONNOHA RD (SR 1600)	3.595	24	*		38,682		37,963					_							_		_		
	1	+	KERNERSVILLE RD SR	FROM HIGH POINT RD (SR 1003) TO)										286			26	4	6		1					
		12	3	CURB AND GUTTER AT LOWES	4.571	24	*		49,184	-	60,311	1,740	+		286	 		20	+	-		 	 			†	1
			DE4.05	FROM PVT JT NORTH OF US 421																							
		13	PEACE HAVEN ROAD (SI 1891)	R RAMPS TO PVT JT @ LEWISVILLE- CLEMMONS RD	2.957	22	*		32,162	100	39,358	2,541		210	263			17	1	10	3			ļ	<u> </u>	 	-
	1	13	1031,	FROM CHERRY STREET NEAR TARGE	Т		1																				
			UNIVERSITY PARKWAY				1		4		25.007	13 530	2,587		1,079			57	73	35	13						
		14	(SR 4000)	TO NB US 52)	2.691 26.715		*	200 200	10,695 267,888	9,930	35,097 315,980	12,538 16,819	2,587	310	2,026	-	24	111	81	58	18	1					
T	OTAL FOR	PROJ N	O. 9CR.20341.91		26./15	-	1	200		77,918		32,799					24			269					L		1
				1,																1		1	1	1	T	T	
	T	\top																									
				FROM TIP PROJECT PVMT. JT. AT	1																						
				KIRBY RD (SR 1115) TO PVMT JT WHERE CURB BEGINS NEAR DALTOI			l l																				
OCD 20051	11 State	. 1=	SR 1112-MAIN ST.	RD INTERSECTION	0.736	5 22	*		1,310		9,694							20						ļ			-
			IO. 9CR.20851.91	1.0 11.101011011	0.736				1,310		9,694							20		20				<u> </u>			-
T	UTAL FOR	PKUJ N	IU. 7CK.2U831.71						1	1,310		9,694								20							
					40.45	0	1	300	390.280	21,367	468,605	33,083	2,587	3,845	3,372	4	24	204	131	90	48	2	2,000	220	28	8	1,277
	•	GRAND 1	TOTAL		40.45	-	1 -	300		11,647		01,688					28			475			2	,220	J		
L				1																							



OR



Volume Density Operation

ft (m)

250 (75)

300 (90)

355 (110)

420 (130)

Speed Limit

mph (km/hr)

55 (88)

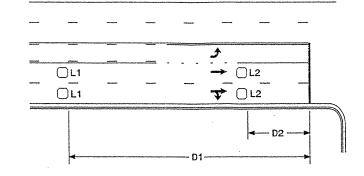
(64)

(72)

(80)

40

45



Spee	d Limit		D1	[)2
mph	(km/hr)	ft	(m)	ft	(m)
40	(64)	250	(75)	80	(25)
45	(72)	300	(90)	90	(27)
50	(80)	355	(110)	100	(30)
55	(88)	420	(130)	110	(35)

"Stretch" Operation

 $L1 = 6ft \times 6ft$

 $L2 = 6ft \times 6ft$

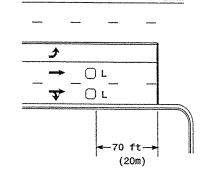
(1.8m X 1.8m)

(1.8m X 1.8m)

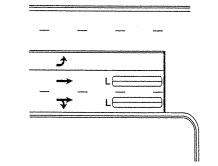
Wired in series

Wired in series

Low Speed Detection [<35 mph (56 km/hr)]



 $L = 6ft \times 6ft (1.8m \times 1.8m)$ Wired in series

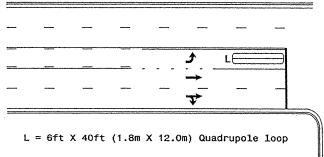


PROJECT REFERENCE NO. SHEET NO. 9CR.10341.9.etc. SIG 1

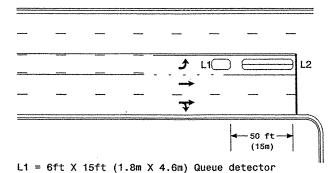
 $L = 6ft \times 40ft (1.8m \times 12.0m)$ Quadrupole loop, wired separately

Left Turn Lane Detection

OR



Presence Loop Detection



 $L2 = 6ft \times 40ft (1.8m \times 12.0m)$ Quadrupole loop

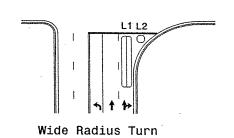
Queue Loop Detection

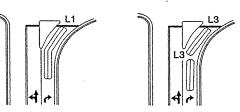
Standard Turn

Right Turn Lane Detection

L1 = 6ft X 40ft (1.8m X 12.0m) Quadrupole loop L2 = 6ft X 6ft (1.8m X 1.8m) [Minimum] Presence loop Wired separately

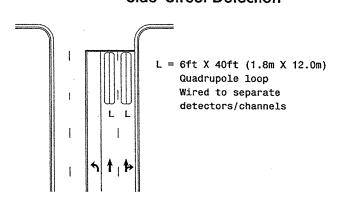
L3 = 6ft X 20ft (1.8m X 6.0m) Quadrupole loop Wired in series



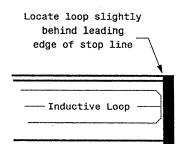


Channelized Turn

Side Street Detection



Presence Loop Placement at Stop Lines



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.

Single 6' X 6' (1.8m X 1.8m) loop (wired separately):

oob (wrice oci	paracory,.
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

Recommended Number of Turns

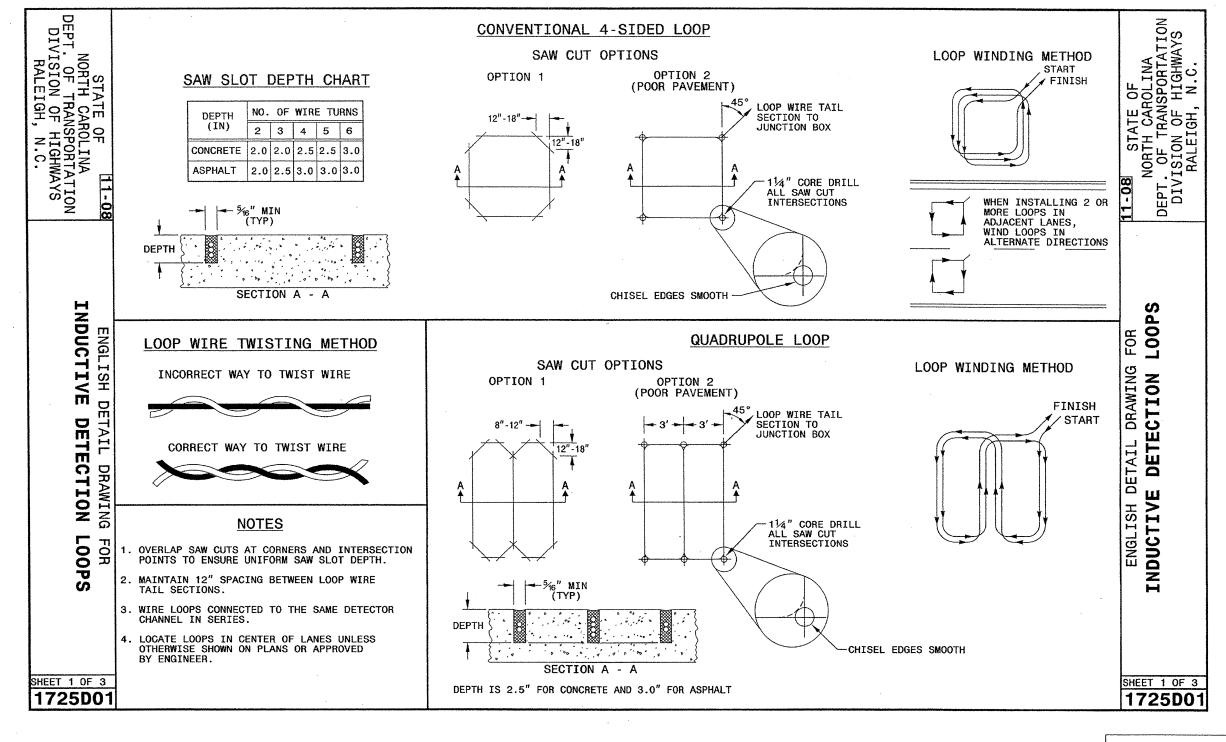
Quadrupole loops: Use 2-4-2 turns

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

N/A

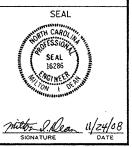
Typical Loop Locations

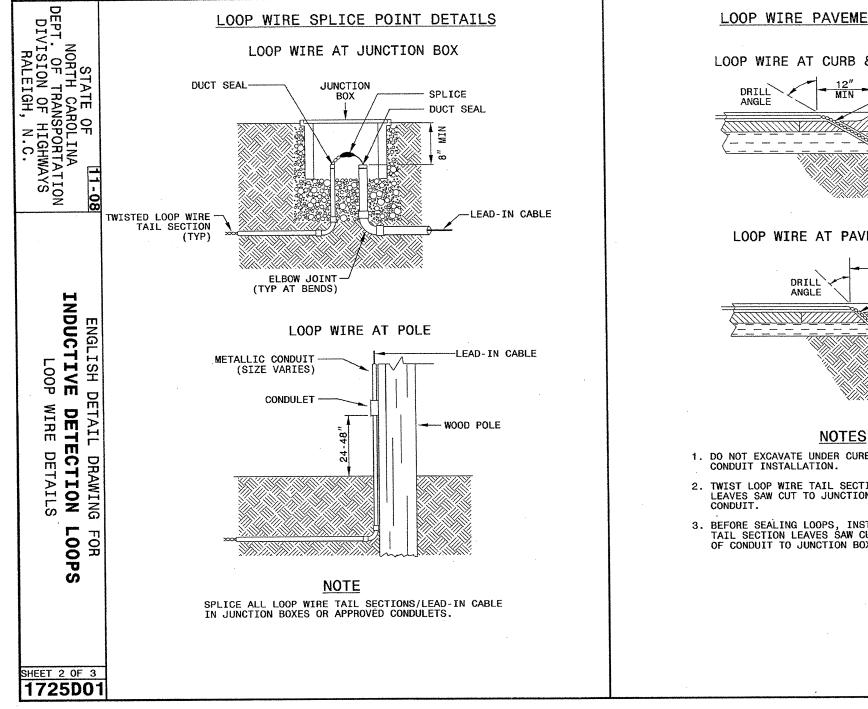
PLAN DATE: June 2006 REVIEWED BY: PREPARED BY: P L Alexander REVIEWED BY:





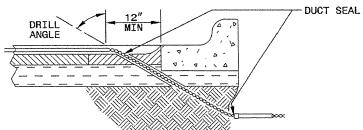




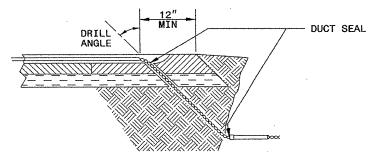


LOOP WIRE PAVEMENT EDGE DETAILS

LOOP WIRE AT CURB & GUTTER SECTION



LOOP WIRE AT PAVEMENT SECTION



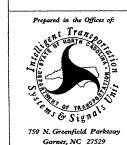
- 1. DO NOT EXCAVATE UNDER CURB AND GUTTER SECTIONS FOR CONDUIT INSTALLATION.
- 2. TWIST LOOP WIRE TAIL SECTIONS FROM WHERE LOOP WIRE TAIL LEAVES SAW CUT TO JUNCTION BOX, INCLUDING THROUGH CONDUIT.
- 3. BEFORE SEALING LOOPS, INSTALL DUCT SEAL WHERE LOOP WIRE TAIL SECTION LEAVES SAW CUT IN PAVEMENT AND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

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

FOR LOOP DETECTION L
WIRE DETAILS DETAIL INDUCTIVE LOOP ENGL ISH

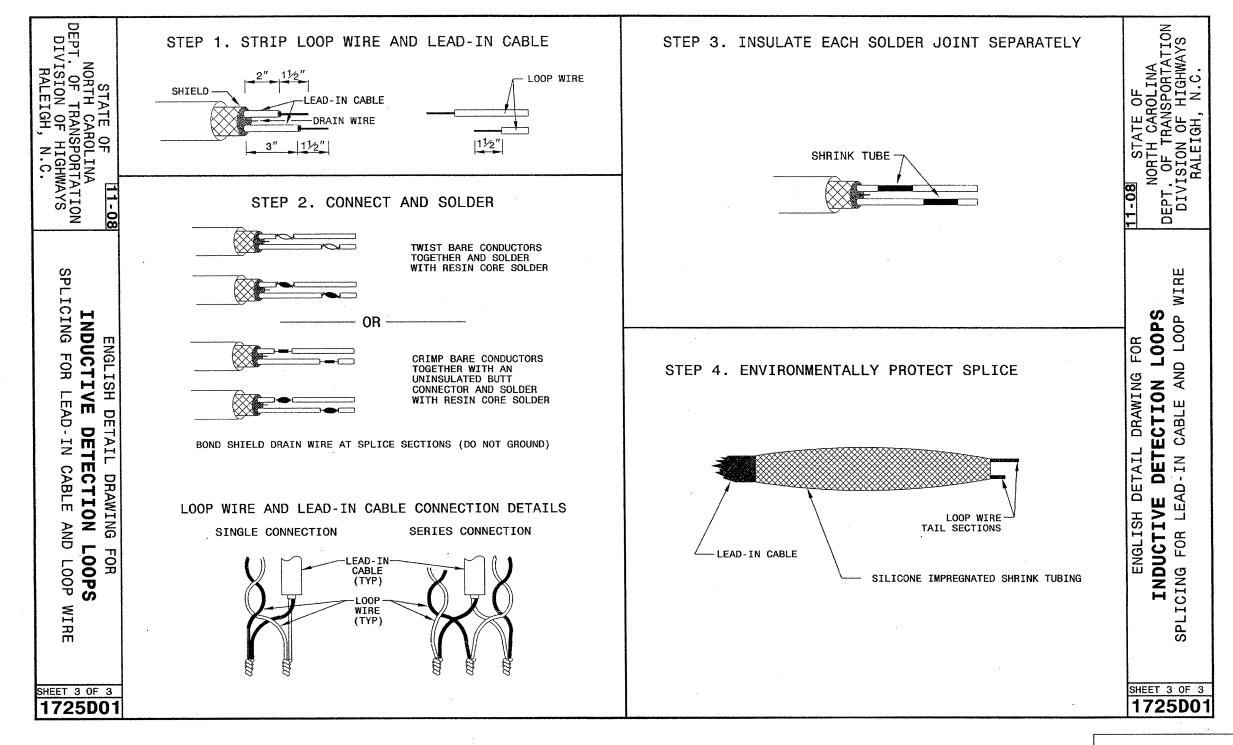
SHEET 2 OF 3 1725D01

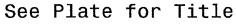
See Plate for Title





SEAL







SEAL

24-NOV-2008 09:36 d:*mork files*0-standord plate sheets*17250103-m