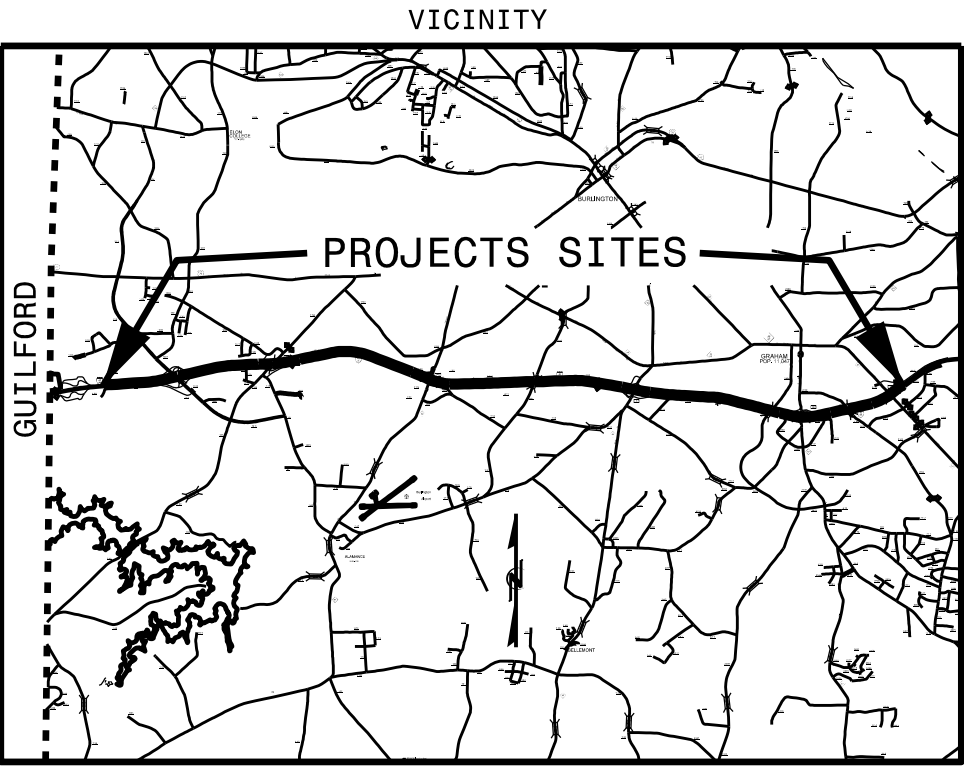


09/08/99

TIP PROJECT: I-5309 & I-5836

CONTRACT: C203782

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$SERNAME\$\$\$\$\$

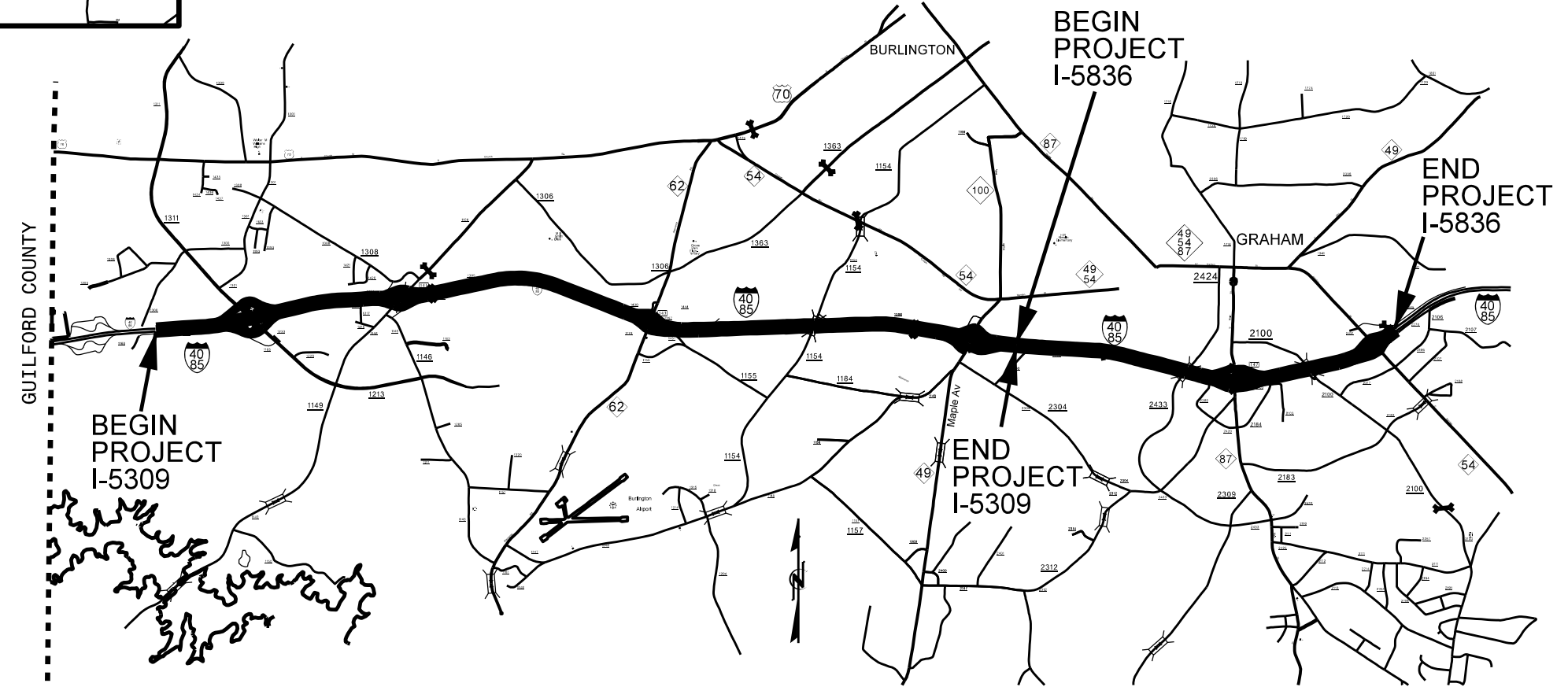


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ALAMANCE COUNTY

**LOCATION: I-40I-85 FROM EAST OF THE GUILFORD COUNTY
LINE TO 0.2 MILE EAST OF NC 54 IN GRAHAM**

TYPE OF WORK: PAVEMENT AND BRIDGE REHABILITATION

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5309 & I-5836	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
46264.1.1	IMPM-040-3(134)219	I-5309 (PE)	
46264.3.FS1	IMPM-040-3(134)219	I-5309 (CONST)	
53042.1.1	NHPIM-0040(10)148	I-5836 (PE)	
53042.3.1	NHPIM-0040(10)148	I-5836 (CONST)	



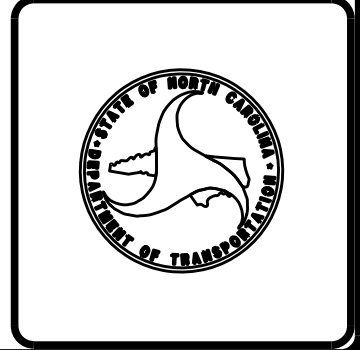
GRAPHIC SCALES
NOT TO SCALE

DESIGN DATA

PROJECT LENGTH
I-5309 = 5.826 miles
I-5836 = 2.701 miles
Total Project Length = 8.527

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610
2012 STANDARD SPECIFICATIONS

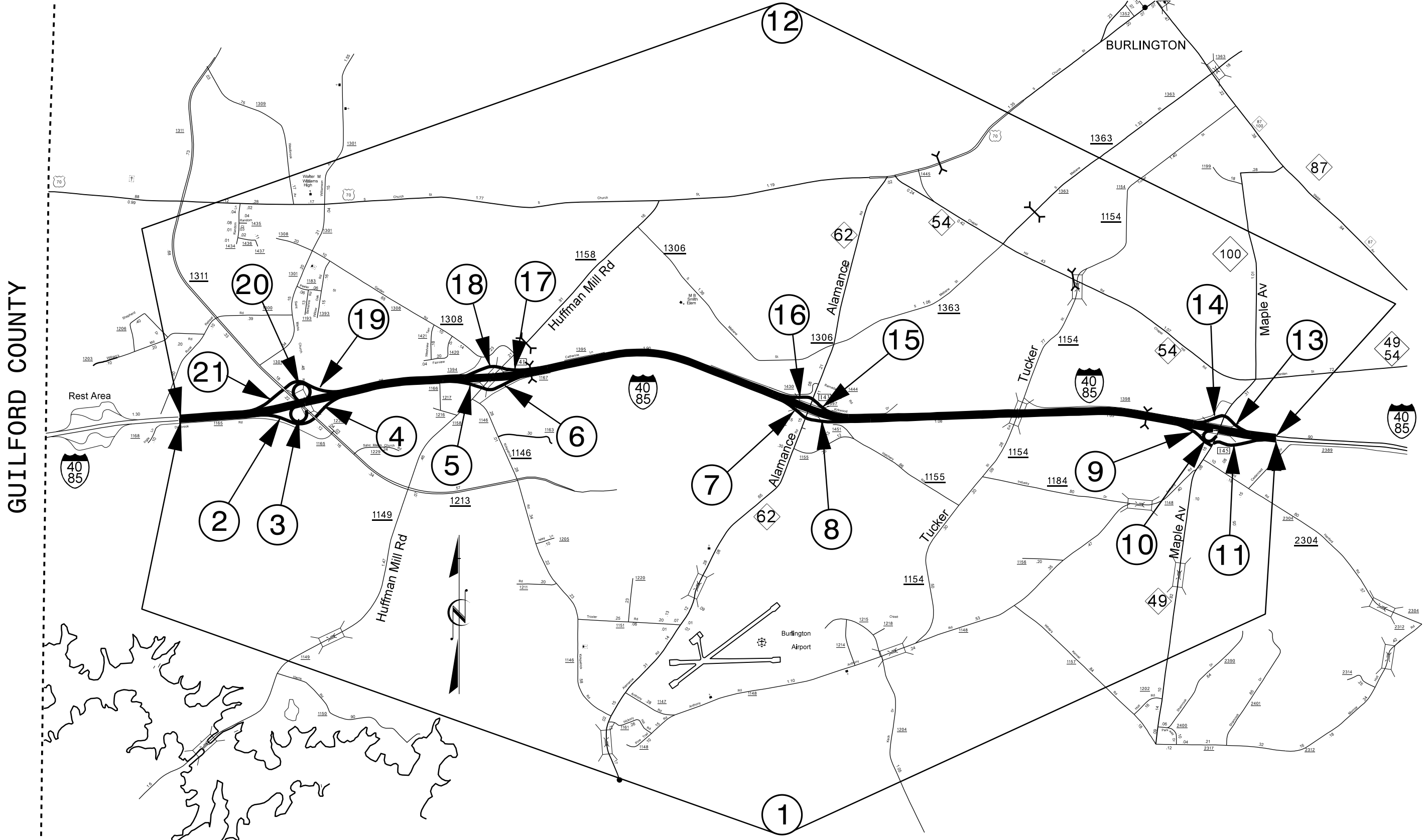
LETTING DATE:
March 15, 2016



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5309	2	

ALAMANCE COUNTY

I - 5309

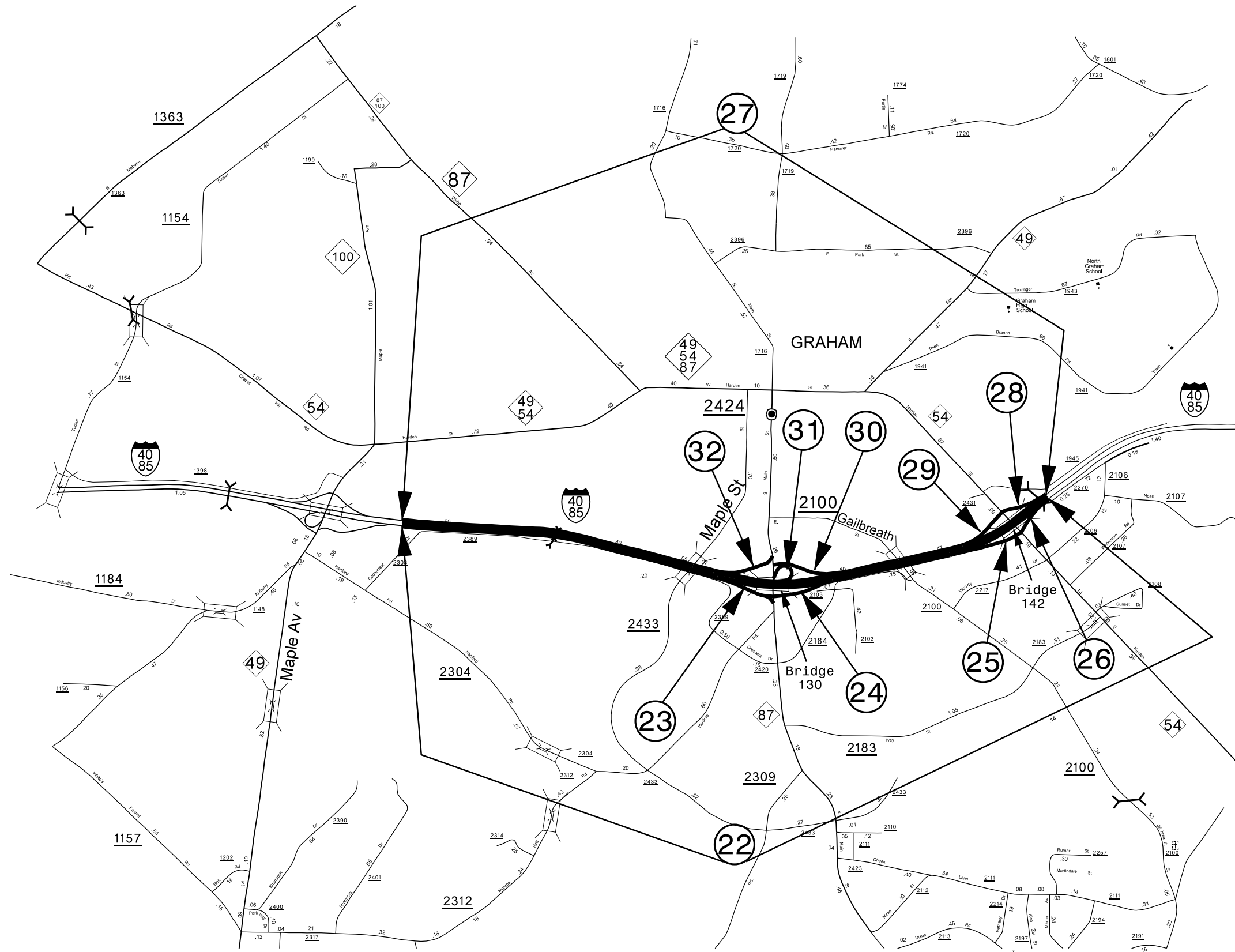


GUILFORD COUNTY

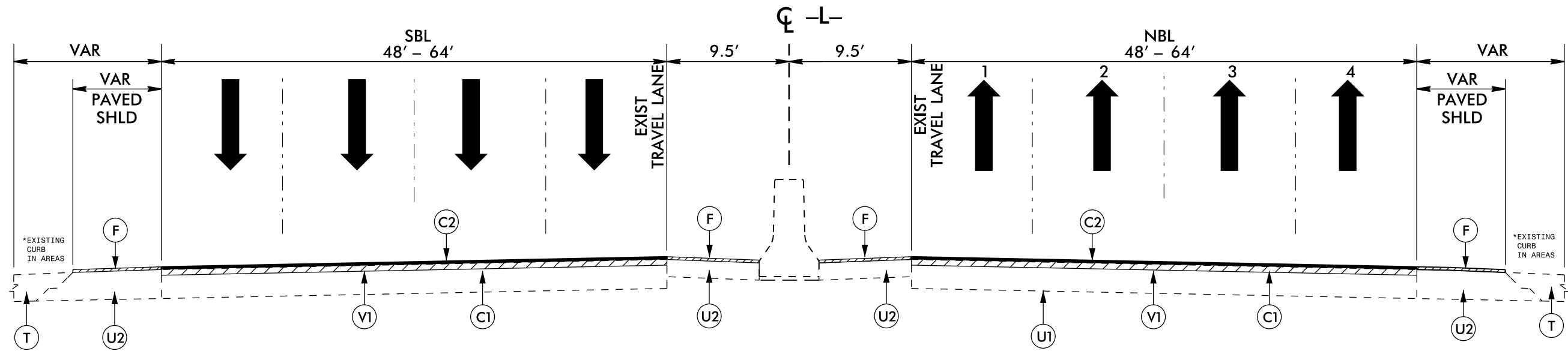
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STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5836	3	

ALAMANCE COUNTY I-5836

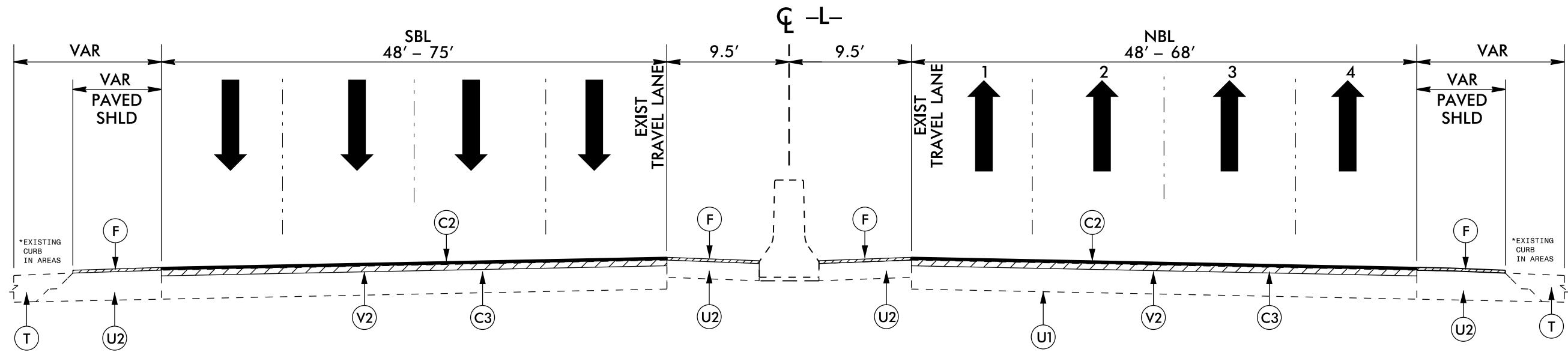


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*NOTE: TYPICAL SECTION CONSTRUCTION SEQUENCE:
 1. MILL TRAVEL LANES 2" AND FILL WITH 2" SURFACE COURSE, TYPE S9.5D
 2. OVERLAY WITH TRAVEL LANES WITH 3/4" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED
 3. OVERLAY SHOULDERS WITH FOG SEAL

TYPICAL SECTION NO. 1
 TO BE USED ON MAPS 1, 12
 MAP 1: STA. 0+00 TO STA. 53+11 EB/NB
 MAP 12: STA. 396+51 TO STA. 449+81 WB/SB



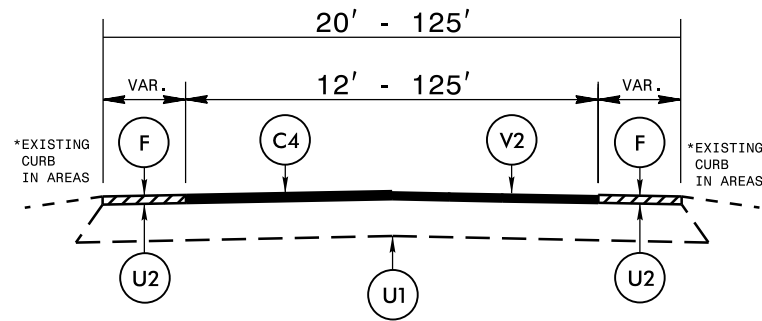
*NOTE: TYPICAL SECTION CONSTRUCTION SEQUENCE:
 1. MILL TRAVEL LANES 1 1/2" AND FILL WITH 1 1/2" SURFACE COURSE, TYPE S9.5D
 2. OVERLAY WITH TRAVEL LANES WITH 3/4" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED
 3. OVERLAY SHOULDERS WITH FOG SEAL

TYPICAL SECTION NO. 2
 TO BE USED ON MAPS 1, 12, 22, 27
 MAP 1: STA. 53+11 TO STA. 307+10 EB/NB
 MAP 12: STA. 142+20 TO STA. 396+51 WB/SB

PAVEMENT SCHEDULE					
C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.	D	PROP. APPROX. 4 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.		
C2	PROP. APPROX. 3/4" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED, AT AN AVERAGE RATE OF 90 LBS PER SQ. YD.	F	PROPOSED FOG SEAL TO BE APPLIED TO THE EXISTING SHOULDER		
C3	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	U1	EXISTING TRAVELWAY.	U2	EXISTING PAVED SHOULDER.
C4	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	T	EARTH MATERIAL		

MILLING SCHEDULE	
V1	MILLING ASPHALT PAVEMENT. 2" DEPTH.
V2	MILLING ASPHALT PAVEMENT 1 1/2" DEPTH
V3	MILLING ASPHALT PAVEMENT 4 1/2" DEPTH
V4	MILLING ASPHALT PAVEMENT 1 1/2" TO 4"

5/14/99
 I:\21-DEC-2015 10:30 AM\Rehab\CADD\I-5309 & I-5836 Typical.dgn

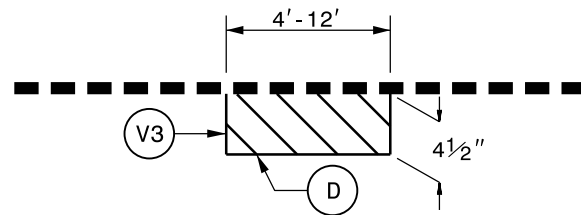


TYPICAL SECTION NO. 3

TO BE USED ON MAPS 2 THRU 11, 13 THRU 21, 23 THRU 26, 28 THRU 32

- *NOTE: TYPICAL SECTION CONSTRUCTION SEQUENCE:
1. MILL TRAVEL LANES 1 1/2" AND FILL WITH 1 1/2" SURFACE COURSE, TYPE S9.5C
 2. OVERLAY SHOULDERS WITH FOG SEAL

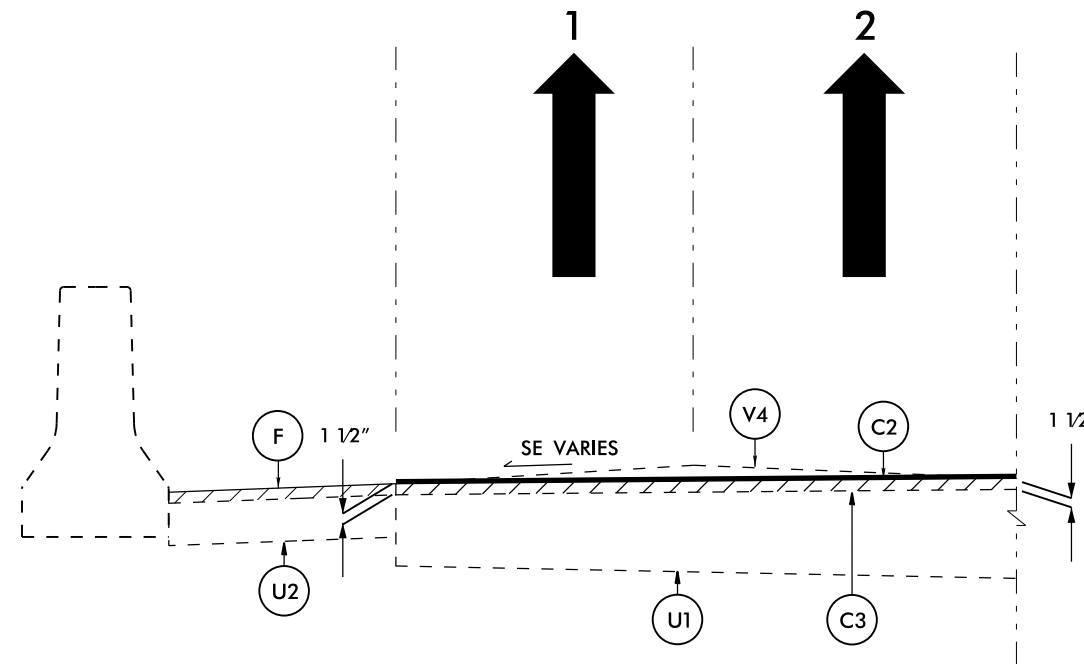
PATCHING DETAIL 1



MILL EXISTING ASPHALT PAVEMENT 4 1/2" IN DEPTH AND FILL WITH INTERMEDIATE COURSE, TYPE I19.0B AT LOCATIONS AS DIRECTED BY THE ENGINEER.

TO BE USED IN CONJUNCTION WITH MAPS 1 AND 12

MILLING DETAIL 2



NOTE: LANES 1 & 2 SHALL BE MILLED AT THE SAME TIME. MILLED DEPTH SHALL BE 1 1/2" ON LEFT SIDE OF LANE 1 AND ON RIGHT SIDE OF LANE 2. A STRINGLINE SHALL BE USED TO DETERMINE MILLING DEPTH ACROSS LANES 1 & 2.

NOTE: TO BE USED FROM APPROX. STA. 180+60.00 EB/NB AT THE EASTERN APPROACH OF BRIDGE FOR ALAMANCE RD/NC 62 NORTH TO APPROX. STA. 227+38 EB/NB (SR 1154 (TUCKER ST.))

PAVEMENT SCHEDULE

C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.		
C2	PROP. APPROX. 3/4" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED, AT AN AVERAGE RATE OF 90 LBS PER SQ. YD.		
C3	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.		
C4	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.		
D	PROP. APPROX. 4 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.		
F	PROPOSED FOG SEAL TO BE APPLIED TO THE EXISTING SHOULDER		
U1	EXISTING TRAVELWAY.	U2	EXISTING PAVED SHOULDER.
T	EARTH MATERIAL		

MILLING SCHEDULE

V1	MILLING ASPHALT PAVEMENT. 2" DEPTH.
V2	MILLING ASPHALT PAVEMENT 1 1/2" DEPTH
V3	MILLING ASPHALT PAVEMENT 4 1/2" DEPTH
V4	MILLING ASPHALT PAVEMENT 1 1/2" TO 4"

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	INCIDENTAL STONE BASE	MILLING ASPHALT PAVEMENT, 2" DEPTH	MILLING ASPHALT PAVEMENT, 1 1/2" DEPTH	MILLING ASPHALT PAVEMENT, 1 1/2" TO 4" DEPTH	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	ASPHALT CONC SURFACE COURSE, TYPE S9.5D	ASPHALT BINDER FOR PLANT MIX	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED	PATCHING EXISTING PAVEMENT	FOG SEAL	FLOWABLE FILL (EXCAVATED)	REMOVE AND REPLACE CONCRETE APRON	ADJ. OF MANHOLES	PORTABLE LIGHTING	JUNCTION BOX (STANDARD SIZE)	2" RISER W/ WEATHERHEAD	INDUCTIVE LOOP SAW CUT								
NO		NO								MI	FT	TONS	SY	SY	SY	SY	TON	TON	TONS	TONS	TON	TONS	SY	CY	EA	EA	LS	EA	EA	LF								
I-5309	Alamance	1	I-40 EASTBOUND/I-85 NORTHBOUND	FROM E. OF GUILFORD COUNTY LINE TO EAST OF NC 49 (0.795-6.62)		4	MD	NO	NO	0.214	48		6,026																									
		"				4		NO	NO	0.121	56		3,975																									
		"				4		NO	NO	0.158	48		4,449																									
		"				4		NO	NO	0.026	62		946																									
		"				4		NO	NO	0.014	60		493																									
		"				4		NO	NO	0.031	60		1,091																									
		"				4		NO	NO	0.039	60		1,373																									
		"				4		NO	NO	0.034	60		1,197																									
		"				4		NO	NO	0.062	54		1,964																									
		"				4		NO	NO	0.037	48		1,042																									
		"				4		NO	NO	0.063	63		2,329																									
		"				4		NO	NO	0.007	61		251																									
		"				4		NO	NO	0.106	60		3,731																									
		"				4		NO	NO	0.058	54		1,837																									
		"				4		NO	NO	0.036	48		1,014																									
		"				4		NO	NO	0.257	48		7,237		2,400																							
		"				4		NO	NO	0.109	58		3,709																									
		"				4		NO	NO	0.291	48		8,195																									
		"				4		NO	NO	0.082	63		3,031																									
		"				4		NO	NO	0.119	60		4,189																									
		"				4		NO	NO	0.069	54		2,186																									
		"				4		NO	NO	1.084	48		30,525																									
		"				4		NO	NO	0.108	56		3,548																									
		"				4		NO	NO	0.093	48		2,619																									
		"				4		NO	NO	0.03	48																											
		"				4		NO	NO	0.171	48		4,815		12,500																							
		"				4		NO	NO	0.059	62		2,146																									
		"				4		NO	NO	0.134	60		4,717																									
		"				4		NO	NO	0.059	54		1,869																									
		"				4		NO	NO	1.34	48		37,734																									
		"				4		NO	NO	0.186	54		5,893																									
		"				4		NO	NO	0.104	48		2,929																									
		"				4		NO	NO	0.042	62		1,528																									
		"				4		NO	NO	0.034	60																											
		"				4		NO	NO	0.148	60		5,210																									
		"				4		NO	NO	0.048	54		1,521																									
		"				4		NO	NO	0.066	62		2,401																									
		"				4		NO	NO	0.092	60		3,238																									
		"				4		NO	NO	0.074	54		2,344																									
		"				4		NO	NO	0.011	48		310																									
TOTAL FOR MAP NO. 1										5.816			31,718	141,894	12,500	2,400			15,513		1,361	7,822	171	73,742	11	4		0.50										
I-5309	Alamance	2	1 - OFF RAMP TO UNIVERSITY DRIVE	FROM I-40EB/I-85NB TO UNIVERSITY DRIVE		2		NO	NO	0.162	16	64	1,521				129		8															650				
		"				2		NO	NO	0.036	27		570				48		3																			
		"				2		NO	NO	0.019	43		479				40		2																			
		"				2		NO	NO	0.04	48		1,126				95		6																			
		"				2		NO	NO	0.01	48		282				24		1																			
		"				2		NO	NO	0.016	73		685				58		3																			
TOTAL FOR MAP NO. 2										0.283			4,663	394					23		1,438																	
I-5309	Alamance	3	1 - ON RAMP SB UNIVERSITY DRIVE	FROM SB UNIVERSITY DRIVE TO I-40EB/I-85NB		2		NO	NO	0.013	18	13	137				12		1																			
		"				2		NO	NO	0.167	17		1,666				141		8																			
TOTAL FOR MAP NO. 3										0.18			1,803	153					9		550																	
I-5309	Alamance	4	1 - ON RAMP FROM NB UNIVERSITY	FROM NB UNIVERSITY TO I-40EB/I-85NB		2		NO	NO	0.002	98	33	115				10		1																			
		"				2		NO	NO	0.013	53		404				34		2																			
		"				2		NO	NO	0.057	16		535				45		3																			

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	MILLING ASPHALT PAVEMENT, 2" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" TO 4" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" TO 4" DEPTH SY	ASPHALT CONC SURFACE COURSE, TYPE S9.5C TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5D TON	ASPHALT BINDER FOR PLANT MIX TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED TON	PATCHING EXISTING PAVEMENT TONS	FOG SEAL SY	FLOWABLE FILL (EXCAVATED) CY	REMOVE AND REPLACE CONCRETE APRON EA	ADJ. OF MANHOLES EA	PORTABLE LIGHTING LS	JUNCTION BOX (STANDARD SIZE) EA	2" RISER W/ WEATHERHEAD EA	INDUCTIVE LOOP SAW CUT LF						
I-5309	Alamance	1	I-40 EASTBOUND/I-85 NORTHBOUND	FROM E. OF GUILFORD COUNTY LINE TO EAST OF NC 49 (0.795-6.62)	1	4	MD	NO	NO	0.214	48		6,026				677				171	2,578	11	4			0.50								
"	"	"			"	"	1	4	NO	NO	0.121	56			3,975				447																
"	"	"			"	"	1	2	NO	NO	0.158	48			4,449				500																
"	"	"			"	"	1	2	NO	NO	0.026	62			946				106																
"	"	"			"	"	1	2	NO	NO	0.014	60			493				55																
"	"	"			"	"	1	2	NO	NO	0.031	60			1,091				123																
"	"	"			"	"	1	2	NO	NO	0.039	60			1,373				154																
"	"	"			"	"	1	2	NO	NO	0.034	60			1,197				134																
"	"	"			"	"	1	2	NO	NO	0.062	54			1,964				221																
"	"	"			"	"	1	2	NO	NO	0.037	48			1,042				117																
"	"	"			"	"	1	2	NO	NO	0.063	63			2,329				261																
"	"	"			"	"	1	2	NO	NO	0.007	61			251				28																
"	"	"			"	"	1	2	NO	NO	0.106	60			3,731				419																
"	"	"			"	"	1	2	NO	NO	0.058	54			1,837				206																
"	"	"			"	"	1	2	NO	NO	0.036	48			1,014				114																
"	"	"			"	"	2	2	NO	NO	0.257	48					7,237		610																
"	"	"			"	"	2	2	NO	NO	0.109	58					3,709		312																
"	"	"			"	"	2	2	NO	NO	0.291	48					8,195		690																
"	"	"			"	"	2	2	NO	NO	0.082	63					3,031		255																
"	"	"			"	"	2	2	NO	NO	0.119	60					4,189		353																
"	"	"			"	"	2	2	NO	NO	0.069	54					2,186		184																
"	"	"			"	"	2	2	NO	NO	1.084	48					30,525		2,571																
"	"	"			"	"	2	2	NO	NO	0.108	56					3,548		299																
"	"	"			"	"	2	2	NO	NO	0.093	48					2,619		221																
"	"	"			"	"	2	2	NO	NO	0.03	48																							
"	"	"			"	"	2	2	NO	NO	0.171	48					4,815	12,500	406																
"	"	"			"	"	2	2	NO	NO	0.059	62					2,146		181																
"	"	"			"	"	2	2	NO	NO	0.134	60					4,717		397																
"	"	"			"	"	2	2	NO	NO	0.059	54					1,869		157																
"	"	"			"	"	2	2	NO	NO	1.34	48					37,734		3,178																
"	"	"			"	"	2	2	NO	NO	0.186	54					5,893		496																
"	"	"			"	"	2	2	NO	NO	0.104	48					2,929		247																
"	"	"			"	"	2	2	NO	NO	0.042	62					1,528		129																
"	"	"			"	"	2	2	NO	NO	0.034	60																							
"	"	"			"	"	2	2	NO	NO	0.148	60					5,210		439																
"	"	"			"	"	2	2	NO	NO	0.048	54					1,521		128																
"	"	"			"	"	2	2	NO	NO	0.066	62					2,401		202																
"	"	"			"	"	2	2	NO	NO	0.092	60					3,238		273																
"	"	"			"	"	2	2	NO	NO	0.074	54					2,344		197																
"	"	"			"	"	2	2	NO	NO	0.011	48					310		26																
TOTAL FOR MAP NO. 1										5.816			31,718	141,894	12,500		15,513		1,361	7,822	171	73,742	11	4			0.50								
I-5309	Alamance	2			1 - OFF RAMP TO UNIVERSITY DRIVE	FROM I-40EB/I-85NB TO UNIVERSITY DRIVE	3	2	NO	NO	0.162	16	64		1,521		129		8														650		
"	"	"					"	"	3	2	NO	NO	0.036	27			570		48		3														
"	"	"					"	"	3	2	NO	NO	0.019	43			479		40		2														
"	"	"					"	"	3	2	NO	NO	0.04	48			1,126		95		6														
"	"	"					"	"	3	2	NO	NO	0.01	48			282		24		1														
"	"	"					"	"	3	2	NO	NO	0.016	73			685		58		3														
TOTAL FOR MAP NO. 2									0.283		64		4,663		394		23														650				
I-5309	Alamance	3	1 - ON RAMP SB UNIVERSITY DRIVE	FROM SB UNIVERSITY DRIVE TO I-40EB/I-85NB	3	2	NO	NO	0.013	18	13		137		12		1																		
"	"	"	"	"	3	2	NO	NO	0.167	17			1,666		141		8																		
TOTAL FOR MAP NO. 3									0.18		13		1,803		153		9																		
I-5309	Alamance	4	1 - ON RAMP FROM NB UNIVERSITY	FROM NB UNIVERSITY TO I-40EB/I-85NB	3	2	NO	NO	0.002	98	33		115		10		1																		
"	"	"			"	"	3	2	NO	NO	0.013	53			404		34		2																
"	"	"			"	"	3	2	NO	NO	0.057	16			535		45		3																
"	"	"			"	"	3	2	NO	NO	0.019	16			178		15		1																
"	"	"			"	"	3	2	NO	NO	0.064	16			601		51		3																
TOTAL FOR MAP NO. 4									0.155		33		1,833		155		10																		
I-5309	Alamance	5	1 - OFF RAMP TO HUFFMAN MILL ROAD	FROM I-40EB/I-85NB TO HUFFMAN MILL ROAD	3	2	NO	NO	0.042	20	5		493		42</																				

PROJECT NO.	SHEET NO.	TOTAL NO.
I-5309, I-5836	7	

SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	MILLING ASPHALT PAVEMENT, 2" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" TO 4" DEPTH SY	INCIDENTAL MILLING SY	ASPHALT CONC SURFACE COURSE, TYPE S9.5C TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5D TON	ASPHALT BINDER FOR PLANT MIX TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED TON	PATCHING EXISTING PAVEMENT TONS	FOG SEAL SY	FLOWABLE FILL (EXCAVATED) CY	REMOVE AND REPLACE CONCRETE APRON EA	ADJ. OF MANHOLES EA	PORTABLE LIGHTING LS	JUNCTION BOX (STANDARD SIZE) EA	2" RISER W/ WEATHERHEAD EA	INDUCTIVE LOOP SAW CUT LF				
I-5309	Alamance	12	1 - I-40 WESTBOUND/I-85 SOUTHBOUND	FROM EAST OF NC 49 TO EAST OF GUILFORD COUNTY LINE (MM 9.42 - 15.27)	2	4		NO	NO	0.153	48			4,309				363		33	194	342	1,890											
					2	4		NO	NO	0.126	56				4,140				348		31	186		2,845										
					2	4		NO	NO	0.154	48				4,337				365		33	195		1,902										
					2	4		NO	NO	0.034	48																							
					2	4		NO	NO	0.098	48				2,760					232		21	124		1,213									
					2	4		NO	NO	0.046	62				1,673					141		13	75		897									
					2	4		NO	NO	0.112	60				3,942					332		30	178		1,248									
					2	4		NO	NO	0.077	54				2,439					205		18	110		909									
					2	4		NO	NO	1.348	48				37,960					3,197		287	1,710		16,609									
					2	4		NO	NO	0.121	48				3,407					287		26	154		1,491									
					2	4		NO	NO	0.205	57				6,855					577		71	309		3,978									
					2	4		NO	NO	0.093	48				2,619					221		20	118		1,146									
					2	4		NO	NO	0.03	48																							
					2	4		NO	NO	0.105	48				2,957					249		22	133		1,293									
					2	4		NO	NO	0.046	63				1,700					143		13	77		824									
					2	4		NO	NO	0.15	60				5,280					444		40	238		1,496									
					2	4		NO	NO	0.07	54				2,218					187		17	100		781									
					2	4		NO	NO	0.917	48				25,823		2,400			2,175		195	1,164		11,303									
					2	4		NO	NO	0.119	48				3,351					282		25	151		1,461									
					2	4		NO	NO	0.113	62				4,110					346		31	185		2,020									
					2	4		NO	NO	0.295	48				8,307					700		63	374		3,628									
					2	4		NO	NO	0.046	63				1,700					143		13	77		789									
					2	4		NO	NO	0.162	60				5,702					480		43	257		1,997									
					2	4		NO	NO	0.076	54				2,408					203		18	108		936									
					2	4		NO	NO	0.119	48				3,351					282		25	151		1,461									
					1	4		NO	NO	0.156	48				4,393					494		40	198		1,833									
					1	4		NO	NO	0.015	48				422					47		4	19		237									
					1	4		NO	NO	0.107	56				3,515					395		32	158		2,189									
					1	4		NO	NO	0.152	48				4,280					481		39	193		1,874									
					1	4		NO	NO	0.034	63				1,257					141		11	57		415									
					1	4		NO	NO	0.11	60				3,872					435		35	174		907									
					1	4		NO	NO	0.056	54				1,774					199		16	80		572									
			1	4		NO	NO	0.08	48				2,253					253		21	102		980											
			1	4		NO	NO	0.052	62				1,891					212		17	85		877											
			1	4		NO	NO	0.129	60				4,541					510		42	205		1,212											
			1	4		NO	NO	0.051	56				1,676					188		15	75		417											
			1	4		NO	NO	0.021	50				616					69		6	28		205											
			1	4		NO	NO	0.027	48				760					85		7	34		331											
			1	4		NO	NO	0.02	48				563					63		5	25		254											
TOTAL FOR MAP NO. 12										5.825			31,813	141,348	2,400		15,474		1,378	7,801	342	74,420												
I-5309	Alamance	13	1 - OFF RAMP TO NC 49	FROM I-40WB/I-85SB TO NC 49	3	2		NO	NO	0.018	18	56		190			16		1			132									650			
					3	2		NO	NO	0.018	21				222				19		1			111										
					3	2		NO	NO	0.036	32				676				57		3			148										
					3	2		NO	NO	0.015	42				370				31		2			71										
					3	2		NO	NO	0.021	45				554				47		3			86										
					3	2		NO	NO	0.008	85				399				34		2													
TOTAL FOR MAP NO. 13										0.116		56	2,411	204		12		548				1										650		
I-5309	Alamance	14	1 - ON RAMP SB NC 49	FROM NC 49 TO I-40WB/I-85SB	3	2		NO	NO	0.003	35	68		62			5					4												
					3	2		NO	NO	0.016	22				207				17		1			36										
					3	2		NO	NO	0.085	16				798				68		4			400										
					3	2		NO	NO	0.012	16				113				10		1			72										
					3	2		NO	NO	0.003	15				26				2					20										
TOTAL FOR MAP NO. 14										0.119		68	1,206	102		6		532				1												
I-5309	Alamance	15	1 - OFF RAMP TO NC 62	FROM I-40WB/I-85SB TO NC 62	3	2		NO	NO	0.028	17	4		279			24		1			150									425			
					3	2		NO	NO	0.021	28				345				29		2			86										
					3	2		NO	NO	0.02	37				434				37		2			70										
					3	2		NO	NO	0.02	38				446				38		2			47										

PROJECT NO.	SHEET NO.	TOTAL NO.
I-5309, I-5836	8	

SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	MILLING ASPHALT PAVEMENT, 2" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" TO 4" DEPTH SY	INCIDENTAL MILLING SY	ASPHALT CONC SURFACE COURSE, TYPE S9.5C TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5D TON	ASPHALT BINDER FOR PLANT MIX TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED TONS	PATCHING EXISTING PAVEMENT TONS	FOG SEAL SY	FLOWABLE FILL (EXCAVATED) CY	REMOVE AND REPLACE CONCRETE APRON EA	ADJ. OF MANHOLES EA	PORTABLE LIGHTING LS	JUNCTION BOX (STANDARD SIZE) EA	2" RISER W/ WEATHERHEAD EA	INDUCTIVE LOOP SAW CUT LF				
I-5836	Alamance	22	1- I40 EASTBOUND/I-85 NORTHBOUND	I40 EASTBOUND/I-85 NORTHBOUND		2	4	NO	NO	0.837	48			23,570			1,985		178	1,062			10,306	3						0.50				
		"	"	"		2	4	NO	NO	0.202	48			5,688			479		43	256			2,492											
		"	"	"		2	4	NO	NO	0.068	57			2,274			191		17	102			955											
		"	"	"		2	4	NO	NO	0.042	66			1,626			137		12	73			937											
		"	"	"		2	4	NO	NO	0.133	48			3,745			315		28	169			1,633											
		"	"	"		2	4	NO	NO	0.044	48			4,506			379		34	203			1,972											
		"	"	"		2	4	NO	NO	0.042	62			1,528			129		12	69			672											
		"	"	"		2	4	NO	NO	0.071	60			2,499			210		19	113			729											
		"	"	"		2	4	NO	NO	0.3	60			10,560		2,625	889		80	476			3,698											
		"	"	"		2	4	NO	NO	0.096	60			3,379			284		25	152			1,291											
		"	"	"		2	4	NO	NO	0.098	62			3,565			300		27	161			1,745											
		"	"	"		2	4	NO	NO	0.161	48			4,534			382		34	204			1,983											
		"	"	"		2	4	NO	NO	0.038	48			2,168			183		16	98			945											
		"	"	"		2	4	NO	NO	0.077	48			2,065			174		16	93			1,063											
		"	"	"		2	4	NO	NO	0.055	64			5,597			471		42	252			1,400											
		"	"	"		2	4	NO	NO	0.159	60			3,802			320		29	171			1,164											
		"	"	"		2	4	NO	NO	0.12	54			2,703		2,625	6,828		612	3,654			32,985	3								0.50		
		TOTAL FOR MAP NO. 22																																
I-5836	Alamance	23	1 - OFF RAMP TO NC 87	FROM I-40EB/I-85NB TO NC 87		3	2	NO	NO	0.081	18	33		855			72		4				382									600		
		"	"	"		3	2	NO	NO	0.055	25			807			68		4				193											
		"	"	"		3	2	NO	NO	0.018	84			887			75		4															
		TOTAL FOR MAP NO. 23																																600
I-5836	Alamance	24	1 - ON RAMP FROM NC 87	FROM NC 87 TO I-40EB/I-85NB		3	2	NO	NO	0.021	86	34		1,060			89		5				373											
		"	"	"		3	2	NO	NO	0.079	20			927			78		5				373											
		"	"	"		3	2	NO	NO	0.08	16			751			64		4				373											
		TOTAL FOR MAP NO. 24																																600
I-5836	Alamance	25	1 - OFF RAMP TO NC 54	FROM I-40EB/I-85NB TO NC 54		3	2	NO	NO	0.072	16	59		676			57		3				338							1			425	
		"	"	"		3	2	NO	NO	0.073	20			857			72		4				342											
		"	"	"		3	2	NO	NO	0.034	26			519			44		3				80											
		"	"	"		3	2	NO	NO	0.008	39			183			15		1															
		TOTAL FOR MAP NO. 25																																425
I-5836	Alamance	26	1 - ON RAMP FROM NC 54	FROM NC 54 TO I-40EB/I-85NB		3	2	NO	NO	0.012	49	4		345			29		2				36											
		"	"	"		3	2	NO	NO	0.073	17			728			62		4				513											
		TOTAL FOR MAP NO. 26																																
I-5836	Alamance	27	1 - I-40 WESTBOUND/ I-85 SOUTHBOUND	FROM .2 MILES EAST OF NC 54 TO .2 MILES EAST OF NC 49 (6.72-9.42)		2	4	NO	NO	0.153	48	133		4,309			363		33	194			1,890											
		"	"	"		2	4	NO	NO	0.05	48			1,408			119		11	63			618											
		"	"	"		2	4	NO	NO	0.045	56			1,478			124		11	67			548											
		"	"	"		2	4	NO	NO	0.066	65			2,517			212		19	113			1,244											
		"	"	"		2	4	NO	NO	0.102	48			2,872			242		22	129			1,200											
		"	"	"		2	4	NO	NO	0.036	48			3,576			301		27	161			1,489											
		"	"	"		2	4	NO	NO	0.018	68			718			60		5	32			254											
		"	"	"		2	4	NO	NO	0.063	64			2,365			199		18	107			933											
		"	"	"		2	4	NO	NO	0.234	60			8,237			693		62	371			2,882											
		"	"	"		2	4	NO	NO	0.168	60			5,914		2,625	498		45	266			2,070											
		"	"	"		2	4	NO	NO	0.115	63			4,250			358		32	191			2,196											
		"	"	"		2	4	NO	NO	0.158	60			5,562			468		42	251			1,941											
		"	"	"		2	4	NO	NO	0.038	69			1,538			129		12	69			595											
		"	"	"		2	4	NO	NO	0.041	60			4,910			413		37	221			2,554											
		"	"	"		2	4	NO	NO	0.131	64			4,919			414		37	222			2,415											
		"	"	"		2	4	NO	NO	0.115	56			3,778			318		29	170			1,421											
		"	"	"		2	4	NO	NO	0.115	56			24,725			2,082		187	1,114			10,820											
		"	"	"		2	4	NO	NO	0.878	48			83,076		2,625	6,993		629	3,741			35,070											
		TOTAL FOR MAP NO. 27																																
I-5836	Alamance	28	1 - OFF RAMP TO NC 54	FROM I-40WB/I-85SB TO NC 54		3	2	NO	NO	0.011	18	31		116			10																	

PROJECT NO.	SHEET NO.	TOTAL NO.
I-5309, I-5836	8	

SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	MILLING ASPHALT PAVEMENT, 2" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" TO 4" DEPTH SY	MILLING ASPHALT PAVEMENT, 1 1/2" TO 4" DEPTH SY	ASPHALT CONC SURFACE COURSE, TYPE S9.5C TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5D TON	ASPHALT BINDER FOR PLANT MIX TONS	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX TONS	OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-2 MODIFIED TON	PATCHING EXISTING PAVEMENT TONS	FOG SEAL SY	FLOWABLE FILL (EXCAVATED) CY	REMOVE AND REPLACE CONCRETE APRON EA	ADJ. OF MANHOLES EA	PORTABLE LIGHTING LS	JUNCTION BOX (STANDARD SIZE) EA	2" RISER W/ WEATHERHEAD EA	INDUCTIVE LOOP SAW CUT LF		
I-5836	Alamance	22	1- I40 EASTBOUND/I-85 NORTHBOUND	I40 EASTBOUND/I-85 NORTHBOUND	2	2	NO	NO	0.837	48			23,570			1,985		178	1,062		10,306	3				0.50					
		"			2	2	NO	NO	0.202	48			5,688			479		43	256		2,492										
		"			2	2	NO	NO	0.068	57			2,274			191		17	102		955										
		"			2	2	NO	NO	0.042	66			1,626			137		12	73		937										
		"			2	2	NO	NO	0.133	48			3,745			315		28	169		1,633										
		"			2	2	NO	NO	0.044	48																					
		"			2	2	NO	NO	0.16	48			4,506			379		34	203		1,972										
		"			2	2	NO	NO	0.042	62			1,528			129		12	69		672										
		"			2	2	NO	NO	0.071	60			2,499			210		19	113		729										
		"			2	2	NO	NO	0.3	60			10,560			889		80	476		3,698										
		"			2	2	NO	NO	0.096	60			3,379			284		25	152		1,291										
		"			2	2	NO	NO	0.098	62			3,565			300		27	161		1,745										
		"			2	2	NO	NO	0.161	48			4,534			382		34	204		1,983										
		"			2	2	NO	NO	0.038	48																					
		"			2	2	NO	NO	0.077	48			2,168			183		16	98		945										
		"			2	2	NO	NO	0.055	64			2,065			174		16	93		1,063										
		"			2	2	NO	NO	0.159	60			5,597			471		42	252		1,400										
		"			2	2	NO	NO	0.12	54			3,802			320		29	171		1,164										
			TOTAL FOR MAP NO. 22						2.703				81,106			6,828		612	3,654		32,985	3				0.50					
I-5836	Alamance	23	1 - OFF RAMP TO NC 87	FROM I-40EB/I-85NB TO NC 87	3	2	NO	NO	0.081	18	33		855			72		4			382									600	
		"			3	2	NO	NO	0.055	25			807			68		4			193										
		"			3	2	NO	NO	0.018	84			887			75		4													
			TOTAL FOR MAP NO. 23						0.154		33		2,549			215		12			575									600	
I-5836	Alamance	24	1 - ON RAMP FROM NC 87	FROM NC 87 TO I-40EB/I-85NB	3	2	NO	NO	0.021	86	34		1,060			89		5			373										
		"			3	2	NO	NO	0.079	20			927			78		5			373										
		"			3	2	NO	NO	0.08	16			751			64		4			373										
			TOTAL FOR MAP NO. 24						0.18		34		2,738			231		14			746										
I-5836	Alamance	25	1 - OFF RAMP TO NC 54	FROM I-40EB/I-85NB TO NC 54	3	2	NO	NO	0.072	16	59		676			57		3			338							1		425	
		"			3	2	NO	NO	0.073	20			857			72		4			342										
		"			3	2	NO	NO	0.034	26			519			44		3			80										
		"			3	2	NO	NO	0.008	39			183			15		1													
			TOTAL FOR MAP NO. 25						0.187		59		2,235			188		11			760							1		425	
I-5836	Alamance	26	1 - ON RAMP FROM NC 54	FROM NC 54 TO I-40EB/I-85NB	3	2	NO	NO	0.012	49	4		345			29		2			36										
		"			3	2	NO	NO	0.073	17			728			62		4			513										
			TOTAL FOR MAP NO. 26						0.085		4		1,073			91		6			549										
I-5836	Alamance	27	1 - I-40 WESTBOUND/I-85 SOUTHBOUND	FROM .2 MILES EAST OF NC 54 TO .2 MILES EAST OF NC 49 (6.72-9.42)	2	2	NO	NO	0.153	48	133		4,309			363		33	194		1,890										
		"			2	2	NO	NO	0.05	48			1,408			119		11	63		618										
		"			2	2	NO	NO	0.045	56			1,478			124		11	67		548										
		"			2	2	NO	NO	0.066	65			2,517			212		19	113		1,244										
		"			2	2	NO	NO	0.102	48			2,872			242		22	129		1,200										
		"			2	2	NO	NO	0.036	48																					
		"			2	2	NO	NO	0.127	48			3,576			301		27	161		1,489										
		"			2	2	NO	NO	0.018	68			718			60		5	32		254										
		"			2	2	NO	NO	0.063	64			2,365			199		18	107		933										
		"			2	2	NO	NO	0.234	60			8,237			693		62	371		2,882										
		"			2	2	NO	NO	0.168	60			5,914			498		45	266		2,070										
		"			2	2	NO	NO	0.115	63			4,250			358		32	191		2,196										
		"			2	2	NO	NO	0.158	60			5,562			468		42	251		1,941										
		"			2	2	NO	NO	0.038	69			1,538			129		12	69		595										
		"			2	2	NO	NO	0.041	60																					
		"			2	2	NO	NO	0.155	54			4,910			413		37	221		2,554										
		"			2	2	NO	NO	0.131	64			4,919			414		37	222		2,415										
		"			2	2	NO	NO	0.115	56			3,778			318		29	170		1,421										
		"			2	2	NO	NO	0.878	48			24,725			2,082		187	1,114		10,820										
			TOTAL FOR MAP NO. 27						2.693		133		83,076			6,993		629	3,741		35,070										
I-5836	Alamance	28	1 - OFF RAMP TO NC 54	FROM I-40WB/I-85SB TO NC 54	3	2	NO	NO	0.011	18	31		116			10		1			53									425	
		"			3	2	NO	NO	0.031	20																					

