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CONTRACT: C204174 TIP PROJECT: I-5852A

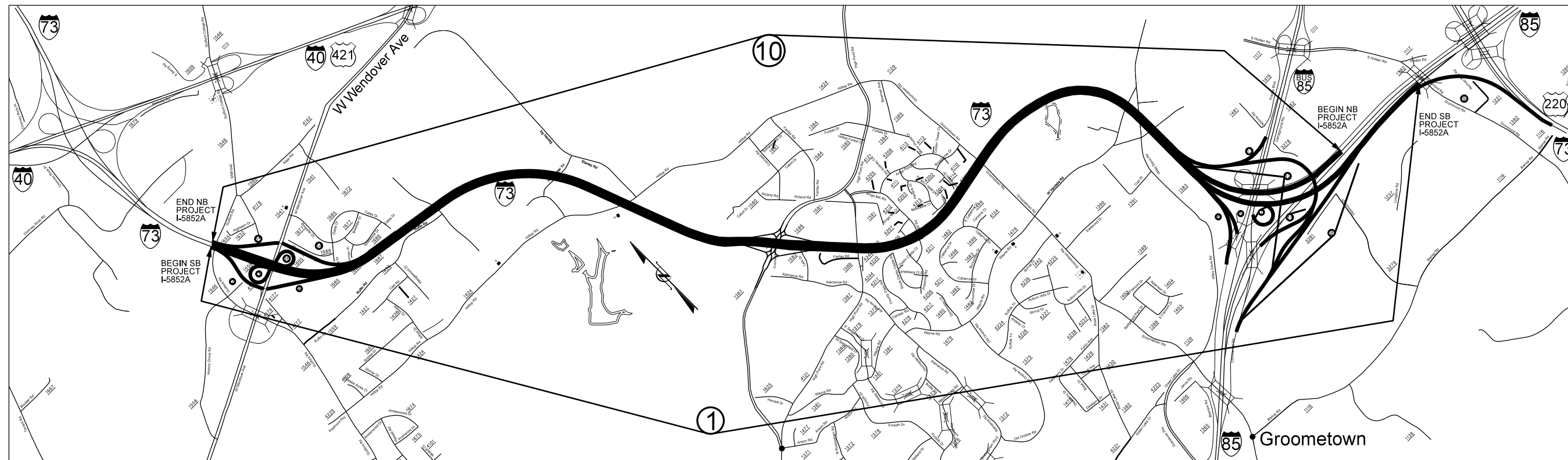
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GUILFORD COUNTY

LOCATION: I-73 FROM 0.7 MILE SOUTH OF I-40 TO
SR 1392 (DRUMOND ROAD) OVERPASS
IN GREENSBORO

TYPE OF WORK: PAVEMENT REHABILITATION

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5852A	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
53056.1.1	NHPIM-0073(049)	PE	
53056.3.2	NHPIM-0073(049)	CONST	



GRAPHIC SCALES

NOT TO SCALE

DESIGN DATA

NA

PROJECT LENGTH

I-5852A: 6.795 miles

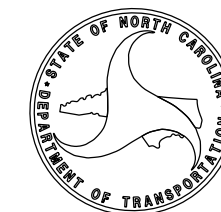
Prepared in the Office of:
DIVISION OF HIGHWAYS

1000 Birch Ridge Dr., Raleigh NC, 27610

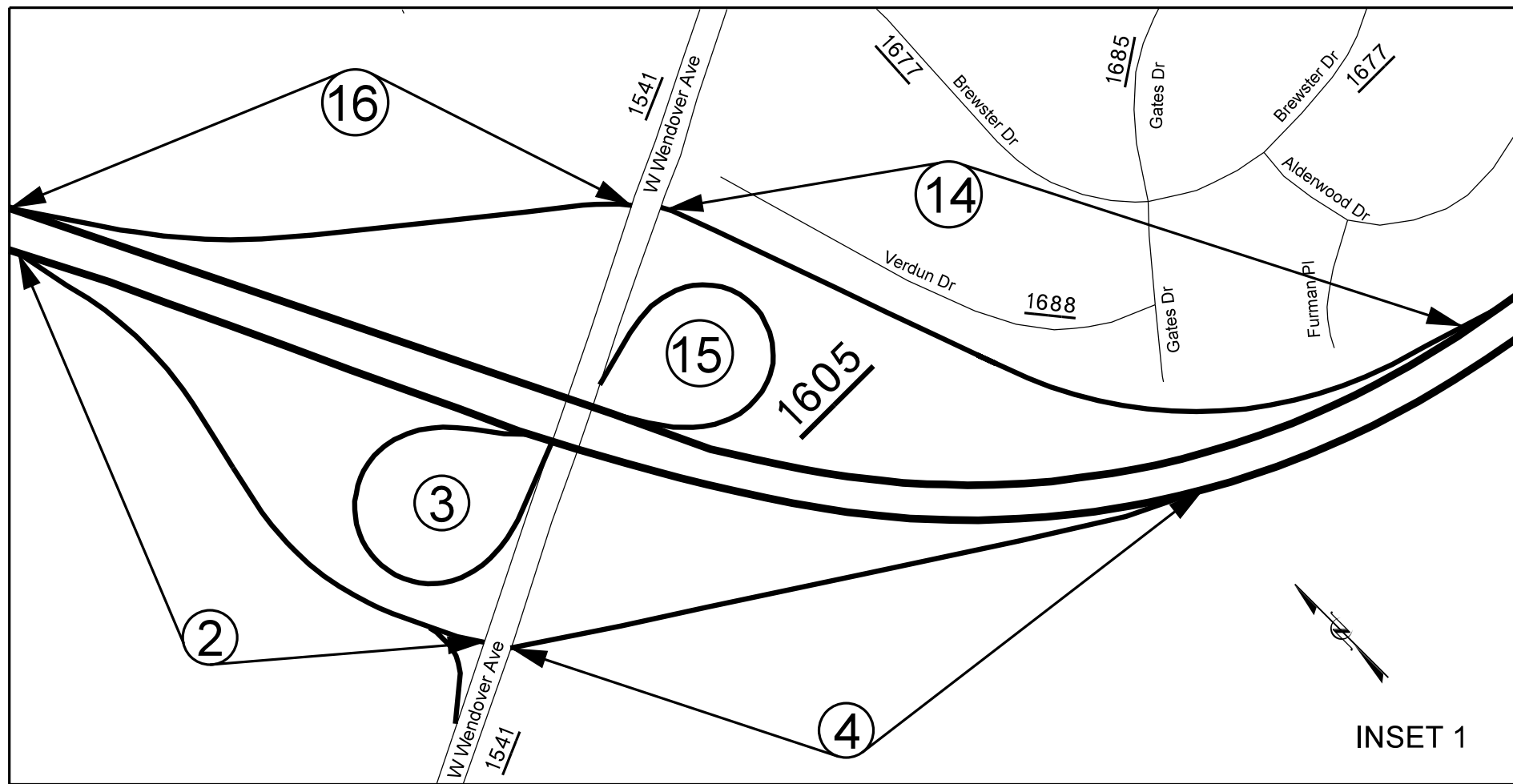
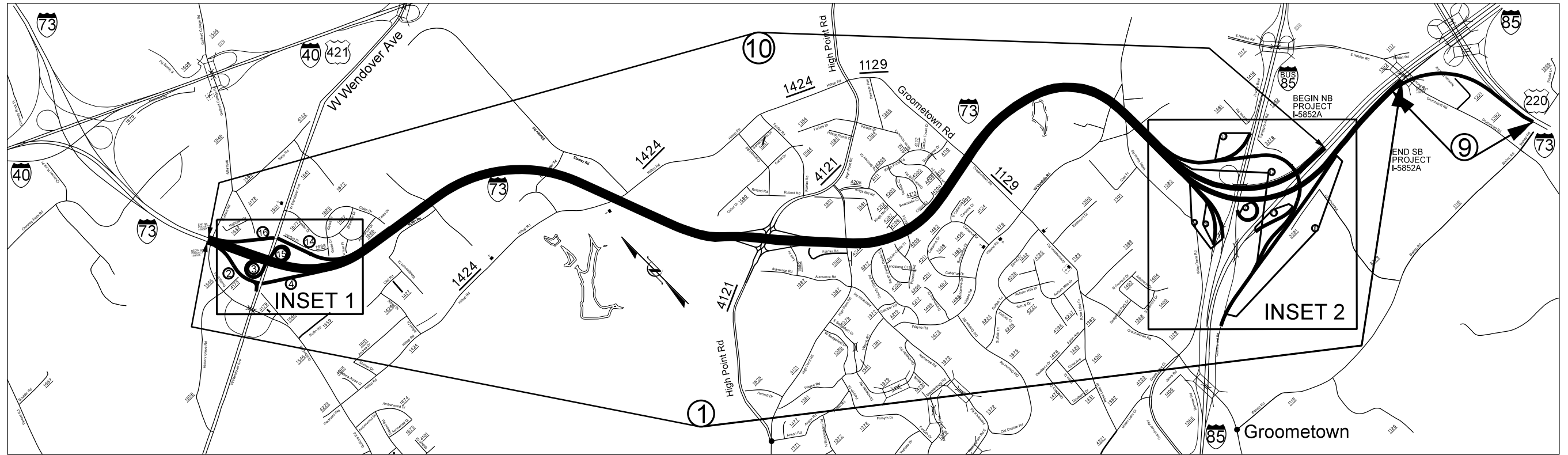
2018 STANDARD SPECIFICATIONS

J.C. Reimakoski
PROJECT ENGINEER
CLINTON A. WILES
ENGINEERING TECHNICIAN

LETTING DATE:
October 16, 2018



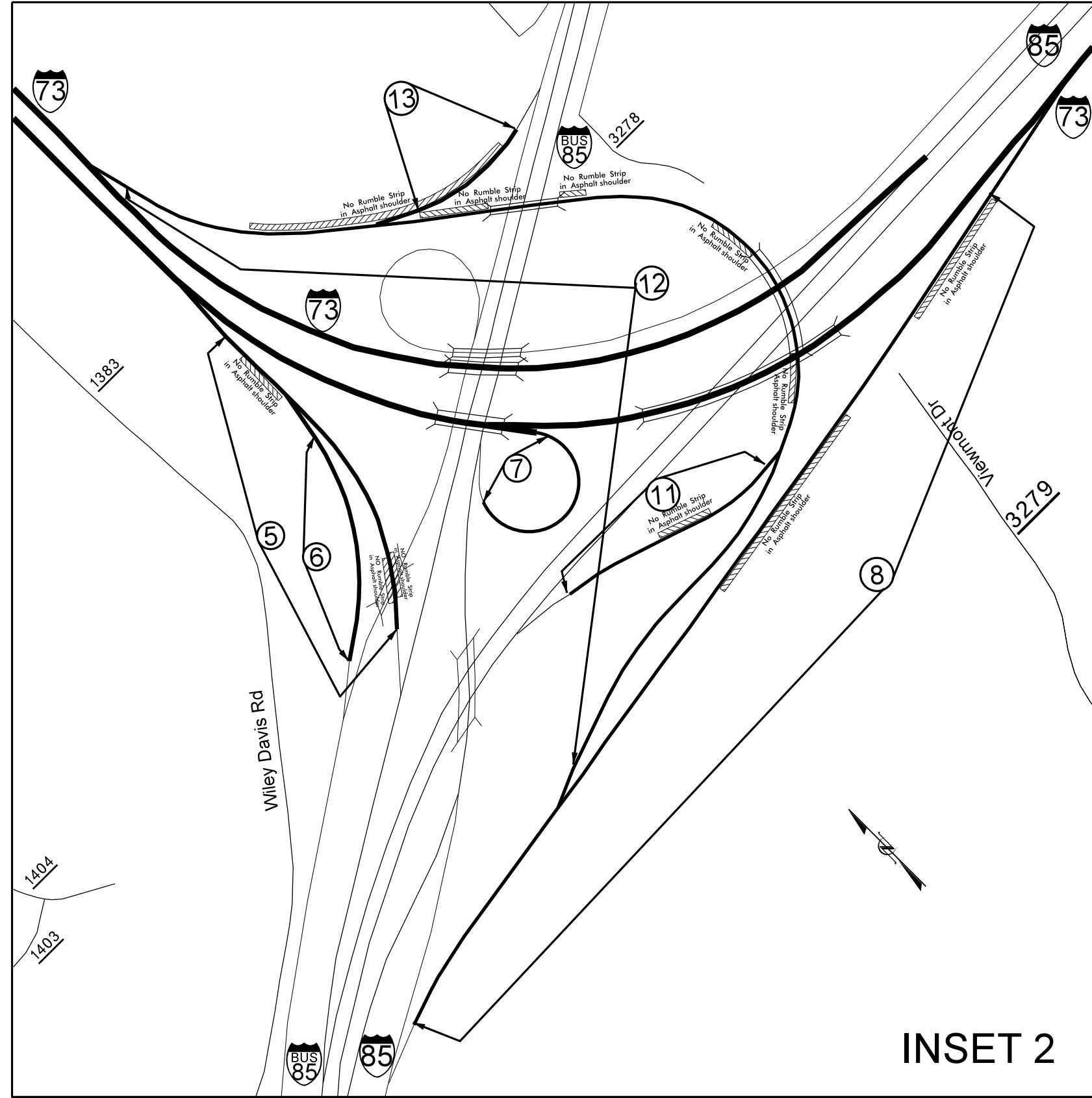
GUILFORD COUNTY



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S:\DDC\3-Guilford\I-5852A\CADD\I-5852A vicinity1 Sht 2.dgn
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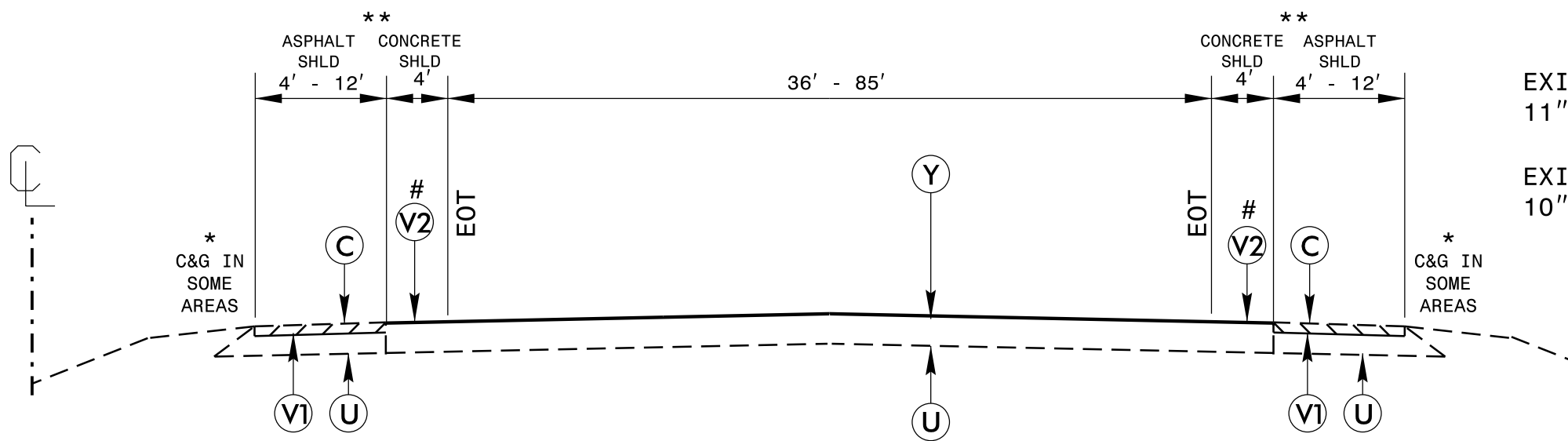
GUILFORD COUNTY

I4-AUG-2018 16:05
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C:\Users\AL_CSD\Documents\Projects\Resurfacing Projects\Division 7\I-5852A October 2018\first review returned\I-5852A vicinity2 Sht 3.dgn



Mill & Fill Asphalt Shoulder
DO NOT Replace Rumble Strips

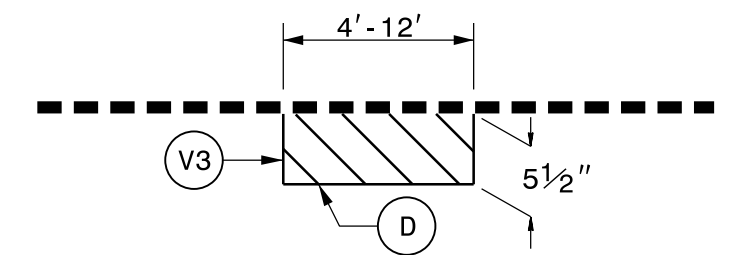
INSET 2



EXISTING PAVEMENT DESIGN FOR MAP 10 (MAINLINE)
11" CONC., 3" B25.0B, 1.25" S9.5B, SUBGRADE STAB.

EXISTING PAVEMENT DESIGN FOR MAP 11 (RAMPS)
10" CONC., 3" B25.0B, 1.25" S9.5B, SUBGRADE STAB.

PATCHING EXISTING PAVEMENT DETAIL



MILL EXISTING ASPHALT PAVEMENT 5 1/2" IN DEPTH AND FILL WITH INTERMEDIATE COURSE, TYPE I19.0C AT LOCATIONS AS DIRECTED BY THE ENGINEER.

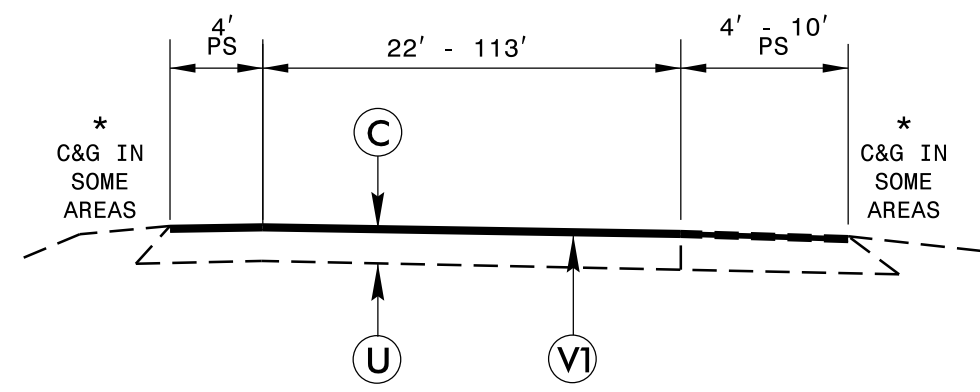
TYPICAL SECTION NO. 2

TO BE USED ON MAP 1, 13
 ** SHOULDER MAY CHANGE FROM CONCRETE/ASPHALT TO ASPHALT BACK TO CONCRETE/ASPHALT
 # RUMBLE STRIP SHALL BE CUT IN ASPHALT OR CONCRETE SHOULDER NEXT TO EOT
 MAP 1: STA. 293+07 TO STA. 300+71 (R)
 1: STA. 332+68 STA. 350+00 (R & L)
 1: STA. 350+00 TO STA. 361+61 (L)
 1: STA. 361+61 TO STA. 368+82 (R & L)

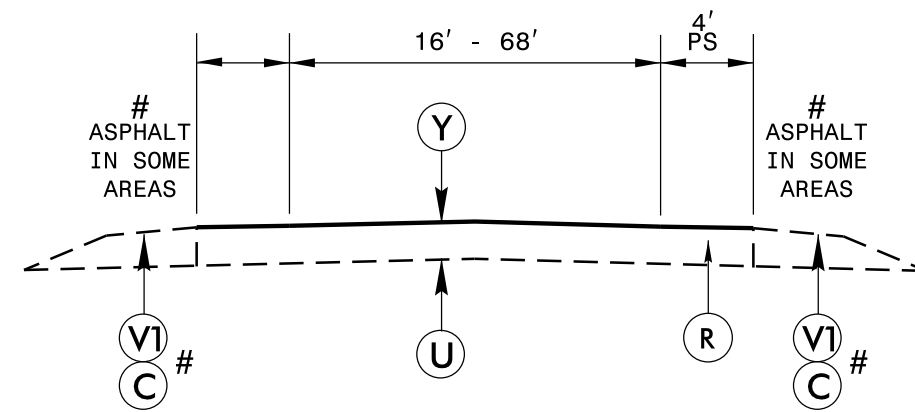
CONTRACTOR SHALL PERFORM MILL/FILL OPERATION ON SHOULDER BEFORE DIAMOND GRINDING TO AVOID TACK AND DEBRIS ON FINAL CONCRETE PAVEMENT SURFACE.
 DIAMOND GRIND EXISTING TRAVEL LANES, AUXILIARY LANES AND RAMPS INCLUDING GORE AREAS
 DIAMOND GRINDING OPERATION SHALL BE PERFORMED AFTER ALL CONCRETE REPAIRS ARE COMPLETE AND PRIOR TO JOINT SEALING OPERATION

PAVEMENT SCHEDULE

C	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. 5 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, I19.0C AT AN AVERAGE RATE OF 314 LBS PER SQ. YD. IN TWO LIFTS.
R	EXISTING CONCRETE STRUCTURE
U	EXISTING PAVEMENT
V1	1 1/2" MILLING
V2	MILLED RUMBLE STRIP
V3	5 1/2" MILLING FOR PATCHING
Y	PROPOSED DIAMOND GRINDING



TYPICAL SECTION NO. 3
TO BE USED ON MAPS 2,3,4, 14, 15, 16



ASPHALT IN SOME AREAS TO BE MILLED AND FILLED
TYPICAL SECTION NO. 4
TO BE USED ON MAPS 5-9, 11-13

29-AUG-2018 14:18 S:\Contracts\Contractors\Resurfacing Projects\Division 7\I-5852A October 2018\I-5852A typical2 Sht 5.dgn

PROJECT REFERENCE NO.	SHEET NO.
I-5852A	8

DRAINAGE ITEMS

PROJECT #	MAP #	STATION	Location	Remove & Replace Concrete Apron	Frame wiTh Grate, STD. 840.22	Flowable Fill Excavatable	Repair of Drop Inlet	Comments
			LT, RT or Median	EA	EA	CY	EA	
I-5852A	1	284+40	RT	1				
MAP 1 TOTALS				1				
I-5852A	9	7+55	RT	1				
I-5852A	9	13+70	RT	1				
I-5852A	9	19+60	RT	1				
I-5852A	9	26+13	RT	1				
I-5852A	9	30+70	RT	1				
MAP 9 TOTALS				5				
I-5852A	11	10+44	RT	1				
MAP 15 TOTALS				1				
PROJECT GRAND TOTALS				7				

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4688000000-E					4725000000-E				4780000000-E	4805000000-N		
										6" X 90 M WHITE THERMO	6" X 90 M YELLOW THERMO	6" X 120 M WHITE THERMO	12" X 90 M WHITE THERMO	24" X 120 M WHITE THERMO	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR & LT ARROW 90 M	THERMO RAMP ARROW	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE II (12")	COLD APP PL PM SYMB, MERGE LT, TYPE II	COLD APP PL RT ARROW W/ BLACK CONTRAST, TYPE II	COLD APP PL STR ARROW W/ BLACK CONTRAST, TYPE II
										MI	FT	LF	LF	LF	LF	EA	EA	EA	EA	LF	EA	EA
	Guilford	1	I-73 SB	FROM NORTH END OF BRIDGE #866 OVER SR 1546 (GUILFORD COLLEGE ROAD), MP 4.03 TO I-85 NB, MP 10.83	1	4	MD	6.795	48										120	9	3	3
	Guilford	2	SB OFF RAMP TO WENDOVER AVE.	FROM I-73 SB TO SR 1541 (WENDOVER AVE)	2	2		0.09	39	1,215	1,271	3,194	79	54	6	3	3	2				
		2	"	"	2	2		0.102	48													
		2	"	"	2	2		0.042	67													
		2	"	"	2	2		0.022	46													
		TOTAL FOR MAP NO. 2						0.256		1,215	1,271	3,194	79	54	6	3	3	2				
	Guilford	3	WB WENDOVER AVE. ON LOOP TO I-73 SB	FROM SR 1541 WB (WENDOVER AVE) TO I-73 SB	2	2		0.161	24		883											
	Guilford	4	EB WENDOVER AVE ON RAMP TO I-73 SB	FROM SR 1541 (EB WENDOVER AVE) TO I-73 SB	2	2		0.023	38	1,297	1,290											
			"	"	2	2		0.232	23													
		TOTAL FOR MAP NO. 4						0.255		1,297	1,290											
	Guilford	5	I-73 OFF RAMP TO I-85 BUS SB	FROM I-73 SB TO I-85 BUS SB	4	2		0.343	24													
	Guilford	6	I-73 SB OFF RAMP TO RAMP TO GROOMETOWN RD.	RAMP FROM I-73 SB OFF RAMP TO RAMP TO GROOMETOWN RD.	4	2		0.218	28													
	Guilford	7	I-73 SB OFF LOOP TO I-85 NB BUS	OFF LOOP FROM I-73 SB TO I-85 NB BUS	4	2		0.178	20													
	Guilford	8	ON RAMP FROM GROOMETOWN TO I-73 NB	ON RAMP FROM GROOMETOWN TO I-73 NB	4	2		0.942	24													
	Guilford	9	RAMP FROM I-73 SB TO I-73 SB (US 220 SB)	RAMP FROM I-73 SB TO I-73 SB (US 220 SB)	4	2		0.547	24													
	Guilford	10	I-73 NB	FROM I-73 NB / I-85 SB SPLIT TO N END OF BRIDGE #867 OVER GUILFORD COLLEGE ROAD	1	4	MD	6.064	48											16		
	Guilford	11	RAMP FROM I-85 NB TO RAMP FROM GROOMETOWN TO I-73 NB	RAMP FROM I-85 NB TO RAMP FROM GROOMETOWN TO I-73 NB	4	2		0.223	32													
	Guilford	12	ON RAMP FROM GROOMETOWN TO I-73 NB	RAMP FROM GROOMETOWN TO I-73 NB NBRAMP FROM GROOMETOWN TO I-73 NB NBRAMP FROM GROOMETOWN TO I-73 NB	4	2		1.172	24											11		
	Guilford	13	RAMP FROM I-85 BUS SB TO I-73 NB	ON RAMP FROM I-85 BUS SB TO I-73 NB	4	2		0.12	24													
	Guilford	14	OFF RAMP	FROM I-73 NB TO SR 1541 (WENDOVER AVE)	3	2		0.226	39	1,623	1,611	1,255	147	113	3	6	3	2				
		14	"	"	3	2		0.029	51													
		14	"	"	3	2		0.046	65													
		14	"	"	3	2		0.016	90													
		TOTAL FOR MAP NO. 14						0.317		1,623	1,611	1,255	147	113	3	6	3	2				
	Guilford	15	ON LOOP	FROM SR 1541 (WENDOVER AVE) EB TO I-73 NB	3	2		0.143	23		757											
	Guilford	16	ON RAMP	FROM SR 1541 (WENDOVER AVE) WB TO I-73 NB	3	2		0.017	44	1,255	1,255											
	Guilford	16	"	"	3	2		0.238	24													
		TOTAL FOR MAP NO. 16						0.255		1,255	1,255											
	Guilford	BRIDGE 820	I-73 & I-840 NB	BRIDGE #820 - OVER I-40 EB		4		0.027	69.42													
	Guilford	BRIDGE 821	I-73 & I-840 NB	BRIDGE # 821 OVER I-40 WB		4		0.078	68													
	Guilford	BRIDGE 823	I-73 & I-840 SB	BRIDGE # 823 OVER I-40 EB		3		0.116	56													
	Guilford	BRIDGE 824	I-73 & I-840 SB OVER I-40 WB	BRIDGE # 824 OVER I-40 WB		3		0.049	56													
	Guilford	BRIDGE 825	I-73 & I-840 SB	BRIDGE # 825 OVER I-73 SB RAMP TO I-40 EB		2		0.038	44													
	Guilford	BRIDGE 827	I-73 SB RAMP	BRIDGE # 827 OVER I-40		2		0.123	38													
	Guilford	BRIDGE 861	I-73 SB	BRIDGE # 861 OVER SR 1424 (HILLTOP RD.)		4		0.06	68													
	Guilford	BRIDGE 862	I-73 NB	BRIDGE # 862 OVER SR 1424 (HILLTOP RD.)		4		0.06	68													
	Guilford	BRIDGE 864	I-73 SB	BRIDGE # 864 OVER SR 1541 (WENDOVER AVE.)		5		0.047	80													
	Guilford	BRIDGE 865	I-73 NB	BRIDGE # 865 OVER SR 1541 (WENDOVER AVE.)		5		0.047	80													
	Guilford	BRIDGE 866	I-73 SB	BRIDGE # 866 OVER SR 1546 (GUILFORD COLLEGE RD.)		5		0.038	80													
	Guilford	BRIDGE 867	I-73 NB	BRIDGE # 867 OVER SR 1546 (GUILFORD COLLEGE RD.)		5		0.038	80													
	Guilford	BRIDGE 869	I-73 SB	BRIDGE # 869 OVER SR 1129 (GROOMETOWN RD.)		4		0.03	68													
	Guilford	BRIDGE 870	I-73 NB	BRIDGE # 870 OVER SR 1129 (GROOMETOWN RD.)		4		0.03	68													
	Guilford	BRIDGE 871	I-73 SB	BRIDGE # 871 OVER SR 4205 (KINGS MILL RD.)		4		0.028	68													
	Guilford	BRIDGE 872	I-73 NB	BRIDGE # 872 OVER SR 4205 (KINGS MILL RD.)		4		0.028	68													
	Guilford	BRIDGE 879	I-85 NB RAMP TO I-73 NB	BRIDGE # 879 OVER I-85 BUS		2		0.06	38													
		TOTAL FOR PROJ						18.886		5,390	7,067	4,449	226	167	9	9	6	4	120	36	3	3
		GRAND TOTAL						18.886		5,390	7,067	4,449	226	167	9	9	6	4	120	36	3	3
										12,457						28					42	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4815000000-E			4825000000-E			4845000000-N			4847030000-E		4847070000-E	4855000000-E	4865000000-E	4875000000-E	4890000000-E				4905000000-N
										6" WHITE PAINT	6" YELLOW PAINT	12" WHITE PAINT	PAINT RIGHT ARROW	PAINT STRAIGHT ARROW	PAINT MERGE LEFT ARROW	6" X 20 MILS WHITE POLYUREA	6" X 20 MILS YELLOW POLYUREA	12" X 20 MILS WHITE POLYUREA	6" LINE REMOVAL	12" LINE REMOVAL	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	EPOXY PAVEMENT MARKING LINES (BLACK) 6"	6" HOT SPRAY THERMO (WHITE)(50 MIL)	6" HOT SPRAY THERMO (YELLOW)(50 MIL)	12" HOT SPRAY THERMO (WHITE)(50 MIL)	SNOWPLOWABLE PAVEMENT MARKERS CRYSTAL/RED			
										MI	FT	LF	LF	LF	EA	EA	EA	LF	LF	LF	LF	LF	EA	LF	LF	LF	EA	LF	LF
	Guilford	1	I-73 SB	FROM NORTH END OF BRIDGE #866 OVER SR 1546 (GUILFORD COLLEGE ROAD), MP 4.03 TO I-85 NB, MP 10.83	1	4	MD	6.795	48	62,019	35,882	7,763	3	3	9	62,019	35,882	7,763	97,901	7,763	15	26,137	62,019	35,882	7,763	1,688			
	Guilford	2	SB OFF RAMP TO WENDOVER AVE.	FROM I-73 SB TO SR 1541 (WENDOVER AVE)	2	2		0.09	39																	71			
		2	"		2	2		0.102	48																				
		2	"		2	2		0.042	67																				
		2	"		2	2		0.022	46																				
		TOTAL FOR MAP NO. 2						0.256																			71		
	Guilford	3	WB WENDOVER AVE. ON LOOP TO I-73 SB	FROM SR 1541 WB (WENDOVER AVE) TO I-73 SB	2	2		0.161	24																				
	Guilford	4	EB WENDOVER AVE ON RAMP TO I-73 SB	FROM SR 1541 (EB WENDOVER AVE) TO I-73 SB	2	2		0.023	38																				
		TOTAL FOR MAP NO. 4						0.255																					
	Guilford	5	I-73 OFF RAMP TO I-85 BUS SB	FROM I-73 SB TO I-85 BUS SB	4	2		0.343	24	1,818	2,372	677				1,818	2,372	677	4,190	677							34		
	Guilford	6	I-73 SB OFF RAMP TO RAMP TO GROOMETOWN RD.	RAMP FROM I-73 SB OFF RAMP TO RAMP TO GROOMETOWN RD.	4	2		0.218	28	1,151	1,151					1,151	1,151		2,302										
	Guilford	7	I-73 SB OFF LOOP TO I-85 NB BUS	OFF LOOP FROM I-73 SB TO I-85 NB BUS	4	2		0.178	20	938	938					938	938		1,876										
	Guilford	8	ON RAMP FROM GROOMETOWN TO I-73 NB	ON RAMP FROM GROOMETOWN TO I-73 NB	4	2		0.942	24	5,172	5,100	510				5,172	5,100	510	10,272	510		72					26		
	Guilford	9	RAMP FROM I-73 SB TO I-73 SB (US 220 SB)	RAMP FROM I-73 SB TO I-73 SB (US 220 SB)	4	2		0.547	24	2,920	2,920	815				2,920	2,920	815	5,840	815							41		
	Guilford	10	I-73 NB	FROM I-73 NB / I-85 SB SPLIT TO N END OF BRIDGE #867 OVER GUILFORD COLLEGE ROAD	1	4	MD	6.064	48	57,969	32,014	4,024			16	57,969	32,014	4,024	89,983	4,024	16	25,955	57,969	32,014	4,024	1,463			
	Guilford	11	RAMP FROM I-85 NB TO RAMP FROM GROOMETOWN TO I-73 NB	RAMP FROM I-85 NB TO RAMP FROM GROOMETOWN TO I-73 NB	4	2		0.223	32	1,512	1,180					1,512	1,180		2,692			300	1,512	1,180		15			
	Guilford	12	ON RAMP FROM GROOMETOWN TO I-73 NB	RAMP FROM GROOMETOWN TO I-73 NBRAMP FROM GROOMETOWN TO I-73 NBRAMP FROM GROOMETOWN TO I-73 NB	4	2		1.172	24	7,917	6,180	1,033			9	7,917	6,180	1,033	14,097	1,033	9	1,737	7917	6,180		174			
	Guilford	13	RAMP FROM I-85 BUS SB TO I-73 NB	ON RAMP FROM I-85 BUS SB TO I-73 NB	4	2		0.12	24	634	634					634	634		1,268										
	Guilford	14	OFF RAMP	FROM I-73 NB TO SR 1541 (WENDOVER AVE)	3	2		0.226	39																		90		
		14	"		3	2		0.029	51																				
		14	"		3	2		0.046	65																				
		14	"		3	2		0.016	90																				
		TOTAL FOR MAP NO. 14						0.317																			90		
	Guilford	15	ON LOOP	FROM SR 1541 (WENDOVER AVE) EB TO I-73 NB	3	2		0.143	23																				
	Guilford	16	ON RAMP	FROM SR 1541 (WENDOVER AVE) WB TO I-73 NB	3	2		0.017	44																				
	Guilford	16	"		3	2		0.238	24																				
		TOTAL FOR MAP NO. 16						0.255																					
	Guilford	BRIDGE 820	I-73 & I-840 NB	BRIDGE #820 - OVER I-40 EB		4		0.027	69.42																				
	Guilford	BRIDGE 821	I-73 & I-840 NB	BRIDGE # 821 OVER I-40 WB		4		0.078	68																				
	Guilford	BRIDGE 823	I-73 & I-840 SB	BRIDGE # 823 OVER I-40 EB		3		0.116	56																				
	Guilford	BRIDGE 824	I-73 & I-840 SB OVER I-40 WB	BRIDGE # 824 OVER I-40 WB		3		0.049	56																				
	Guilford	BRIDGE 825	I-73 & I-840 SB	BRIDGE # 825 OVER I-73 SB RAMP TO I-40 EB		2		0.038	44																				
	Guilford	BRIDGE 827	I-73 SB RAMP	BRIDGE # 827 OVER I-40		2		0.123	38																				
	Guilford	BRIDGE 861	I-73 SB	BRIDGE # 861 OVER SR 1424 (HILLTOP RD.)		4		0.06	68																				
	Guilford	BRIDGE 862	I-73 NB	BRIDGE # 862 OVER SR 1424 (HILLTOP RD.)		4		0.06	68																				
	Guilford	BRIDGE 864	I-73 SB	BRIDGE # 864 OVER SR 1541 (WENDOVER AVE.)		5		0.047	80																				
	Guilford	BRIDGE 865	I-73 NB	BRIDGE # 865 OVER SR 1541 (WENDOVER AVE.)		5		0.047	80																				
	Guilford	BRIDGE 866	I-73 SB	BRIDGE # 866 OVER SR 1546 (GUILFORD COLLEGE RD.)		5		0.038	80																				
	Guilford	BRIDGE 867	I-73 NB	BRIDGE # 867 OVER SR 1546 (GUILFORD COLLEGE RD.)		5		0.038	80																				
	Guilford	BRIDGE 869	I-73 SB	BRIDGE # 869 OVER SR 1129 (GROOMETOWN RD.)		4		0.03	68																				
	Guilford	BRIDGE 870	I-73 NB	BRIDGE # 870 OVER SR 1129 (GROOMETOWN RD.)		4		0.03	68																				
	Guilford	BRIDGE 871	I-73 SB	BRIDGE # 871 OVER SR 4205 (KINGS MILL RD.)		4		0.028	68																				
	Guilford	BRIDGE 872	I-73 NB	BRIDGE # 872 OVER SR 4205 (KINGS MILL RD.)		4		0.028	68																				
	Guilford	BRIDGE 879	I-85 NB RAMP TO I-73 NB	BRIDGE # 879 OVER I-85 BUS		2		0.06	38																				
	TOTAL FOR PROJ								18.886		142,050	88,371	14,822	3	3	34	142,050	88,371	14,822	230,421	14,822	40	54,201	129,417	75,256	11,787	3,602		
											230,421						230,421							204,673					
	GRAND TOTAL								18.886		142,050	88,371	14,822	3	3	34	142,050	88,371	14,822	230,421	14,822	40	54,201	129,417	75,256	11,787	3,602		
											230,421						230,421							204,673					