WBS ELEMENT SHEET NO. 8CR.10621.19, 8CR.20621.19 134 1134 Ophir 134 1303 1145 Liberty Hall 1636 (109) 1543 1568 1568 1568 1565 <u>1564</u> <u>1543</u>\ <u>1576</u> 1543 Pekin MOUNT GILEAD (731) 19-DEC-2012 13:37 NProjects-Decs 246463 MONTGOMERY COUNTY 1540

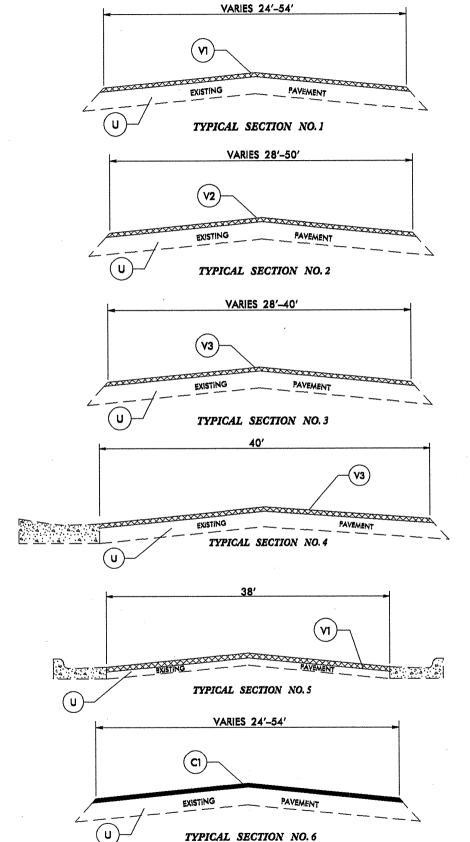
MONTGOMERY COUNTY TYPICAL SECTIONS WBS ELEMENT SHEET NO.

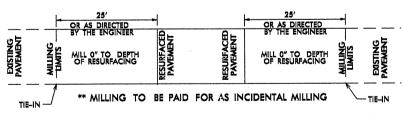
8C,062016

8CR,10621,19, 8CR,20621,19

VARIES 28'-50' TYPICAL SECTION NO. 7 (D1) VARIES 28'-50' TYPICAL SECTION NO. 8 VARIES 28'-50' TYPICAL SECTION NO. 9 TYPICAL SECTION NO. 10

	PAVEMENT SCHEDULE
C1	PROP. APPROX. 1 ¹ / ₂ " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 2 ¹ / ₂ " ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO (2) LAYERS.
С3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE. TYPE I19.0B AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
FDR	FULL DEPTH RECLAMATION WITH CEMENT
М1	ASPHALT SURFACE TREATMENT, MATCOAT #6MSTONE
U	EXISTING PAVEMENT.
V1	MILLING 1 1/2" IN DEPTH.
V2	MILLING 2 1/2" IN DEPTH.
V3	MILLING 3" IN DEPTH.





PAVEMENT TIE-IN DETAIL

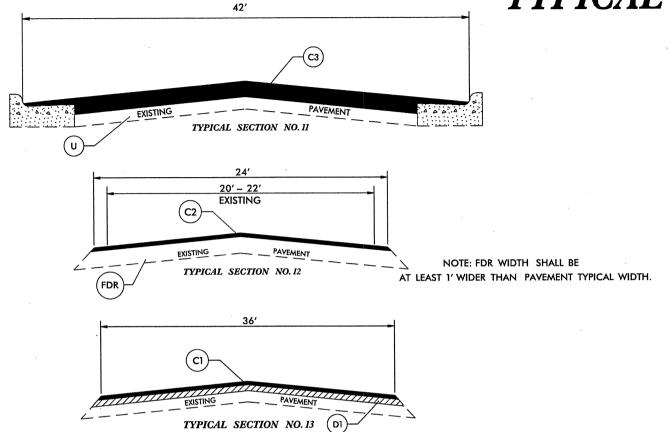
** - MILLING WILL BE AT LOCATIONS AS DETERMINED BY THE ENGINEER.

W8S ELEMENT SHEET NO.

8C.062016 3

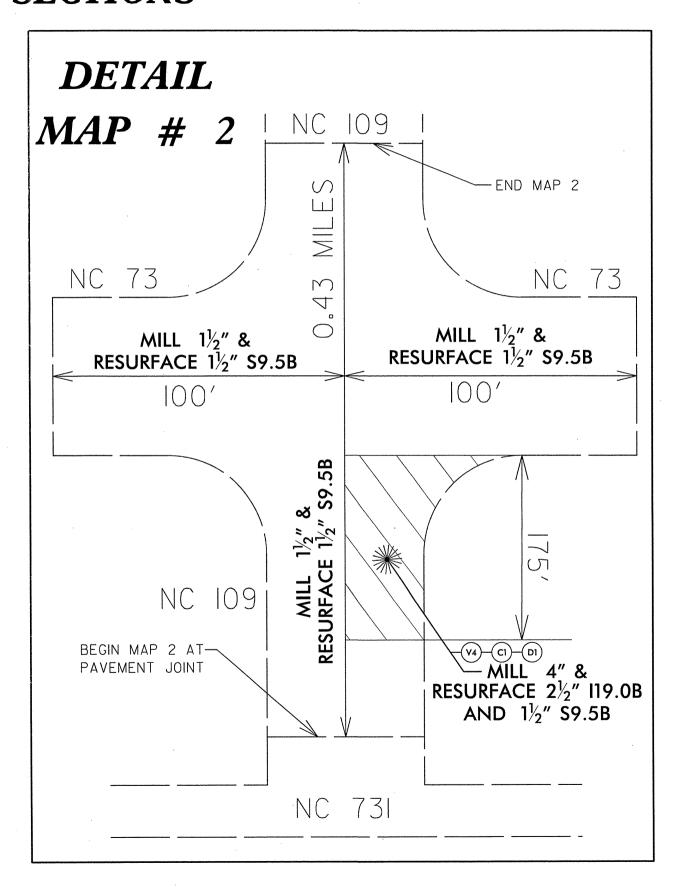
8CR.10621.19, 8CR.20621.19

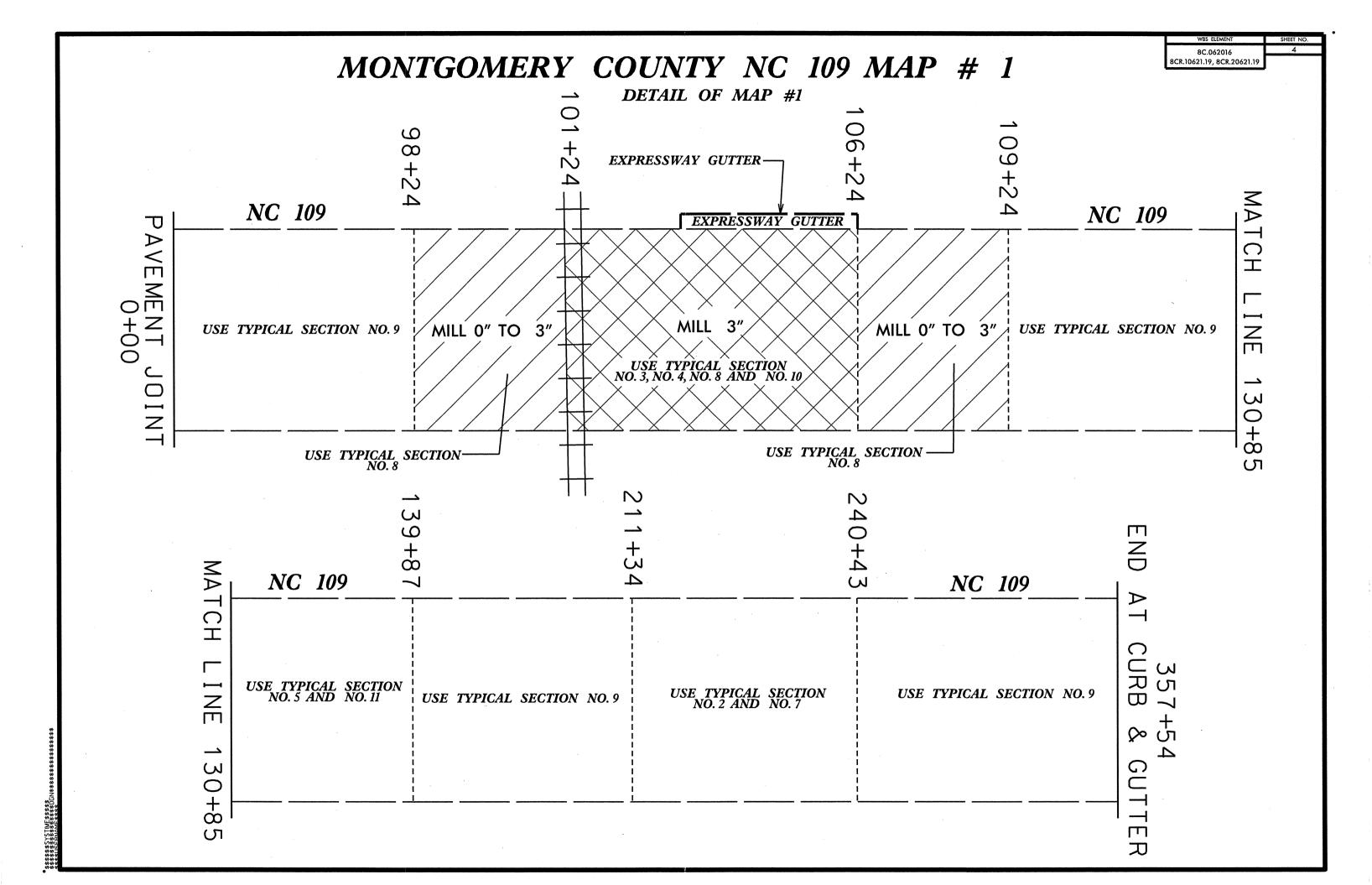
MONTGOMERY COUNTY TYPICAL SECTIONS



** - MILLING WILL BE AT LOCATIONS AS DETERMINED BY THE ENGINEER.

	PAVEMENT SCHEDULE											
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.											
C2	PROP. APPROX. 2½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SO. YD. IN EACH OF TWO (2) LAYERS.											
С3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS											
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE. TYPE 119.0B AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.											
FDR	FULL DEPTH RECLAMATION (12") WITH CEMENT											
М1	ASPHALT SURFACE TREATMENT, MATCOAT #6 STONE											
U	EXISTING PAVEMENT.											
V1	MILLING 1 1/2" IN DEPTH.											
V2	MILLING 2 1/2" IN DEPTH.											
V3	MILLING 3" IN DEPTH.											
V4	MILLING 4" IN DEPTH.											





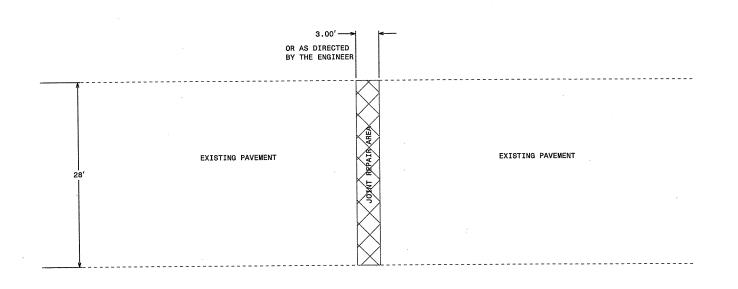
WBS ELEMENT SHEET NO.

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8C.062016

8CR.10621.19, 8CR.20621.19

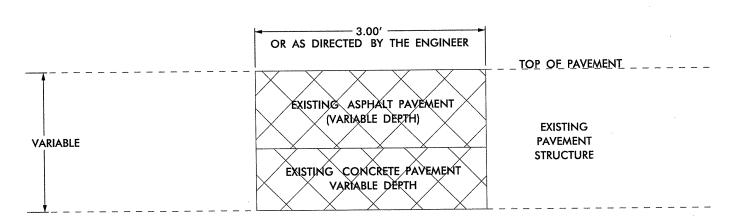
JOINT REPAIR DETAIL

JOINT SCHEDULE											
МАР	# JOINTS										
1	18										



CONTRACTOR SHALL COORDINATE WITH RESIDENT ENGINEER'S OFFICE FOR LOCATION OF JOINTS TO BE REPAIRED.

CROSS-SECTION

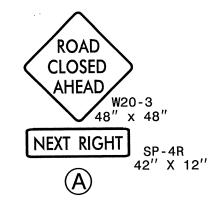


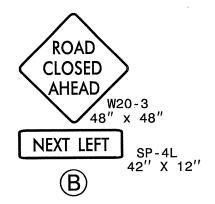
SUBGRADE

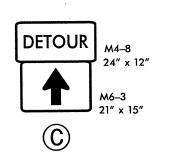
NOTE:
REMOVE ASPHALT AND CONCRETE AT JOINT LOCATIONS AS
DIRECTED BY THE ENGINEER (BY SAWING CLEAN JOINTS).
REMOVE A TOTAL WIDTH OF 3' (APPROX. 1.5' EACH SIDE OF JOINT).
REMOVE AND REPLACE WITH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B.
THERE WILL BE NO DIRECT PAY FOR THIS WORK AS IT WILL BE CONSIDERED
INCIDENTAL TO TO THE LINE ITEM, JOINT REPAIR (TONNAGE)

8C.062016 8CR,10621.19 8CR,20621.19

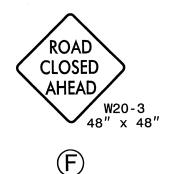
MAP #3 DETOUR DETAIL

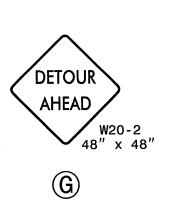


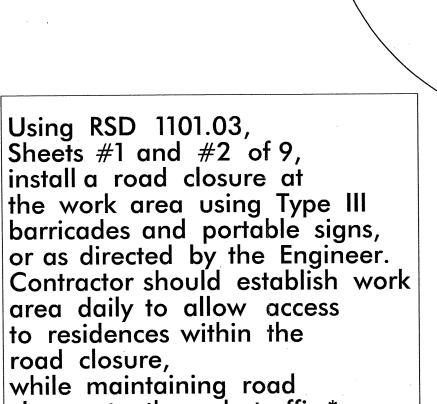




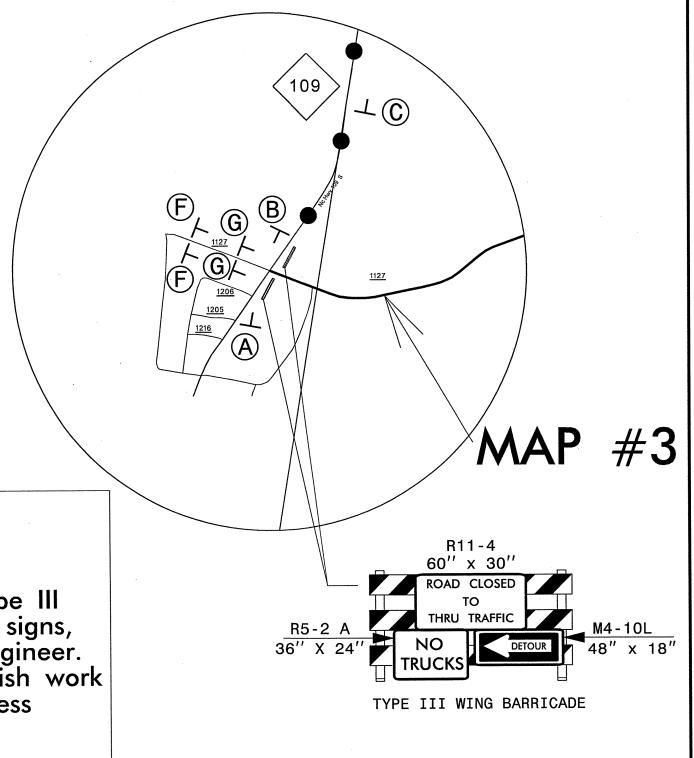
closure to through traffic.*











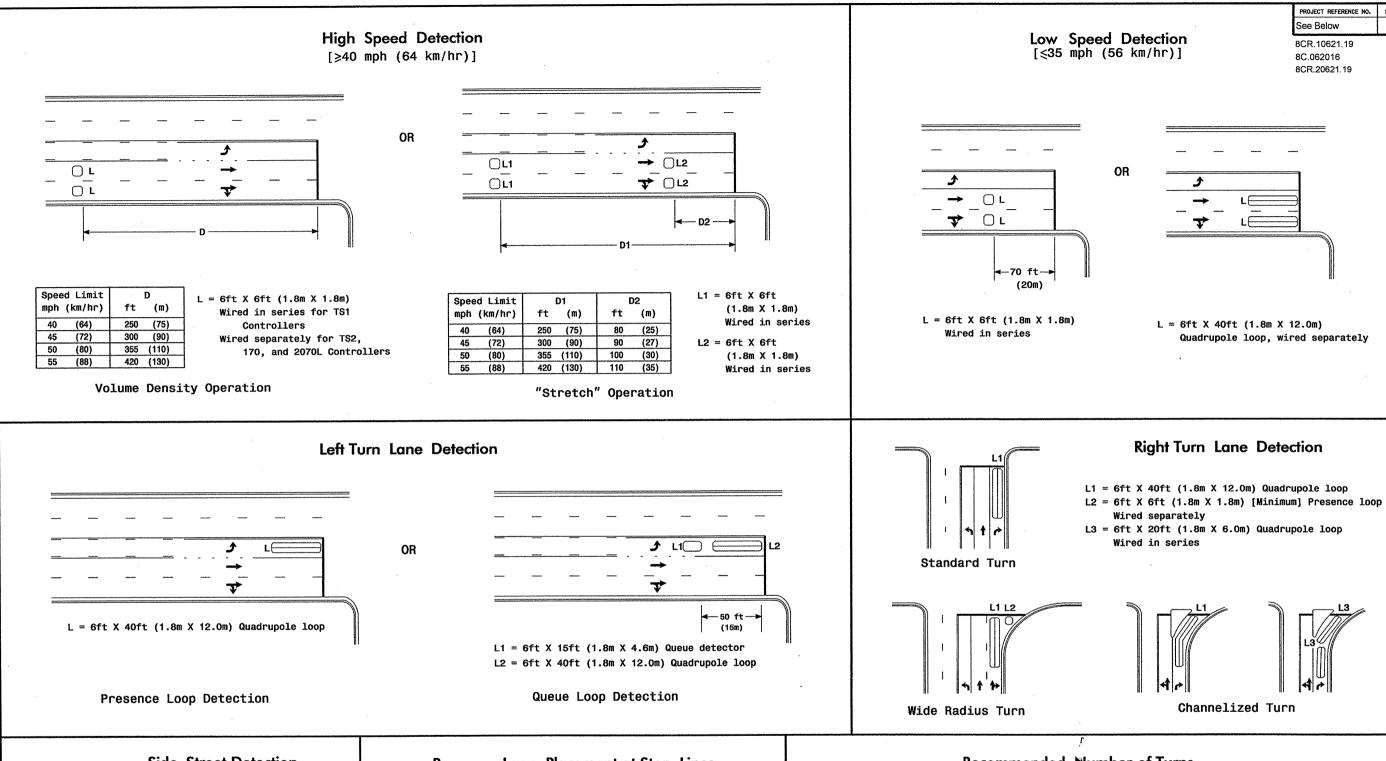
PROJECT NO.	SHEET NO.	TOTAL NO.
8CR.10621.19, ETC	8 ·	

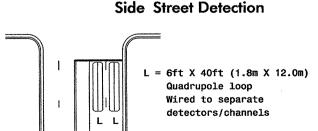
SUMMARY OF QUANTITIES

PROJECT	COUNTY	МДР	ROUTE	DESCRIPTION	TYP	FINAL	WARM MIX	LENGTH	WIDTH	2.5"	3"	1.5"	4"	0" TO 3"	INCIDENTAL	INTERMED-	SURFACE	SURFACE	ASPHALT	ASPHALT	JOINT	FLEXIBLE	ADJ.	ADJ. OF	INDUCTIVE	LEAD-
i noseci			NOO!E	DESCRIPTION.	. , ,	SURFACE	ASPHALT		****	MILLING	MILLING	MILLING	MILLING	MILLING	MILLING	IATE	COURSE,	COURSE,	BINDER	SURFACE	REPAIR	PAVEMENT	OF	METER	LOOP	IN
						TESTING	REQUIRED			1011221110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					COURSE,	S9.5B	SF9.5A		TREATMENT		RECLAMATI	MAN-	OR	SAWCUT	CABLE
						REQUIRED	MEGOMES									119.0B			PLANT	, MATCOAT,		ON (12")	HOLES	VALVE	ı	(14-2
						INEQUINED													MIX	#6M STONE		,		вох	l .	PAIR)
														,											l .	,
!											·															1
NO		NO			NO			MI	FT	SY	SY	SY	SY	SY	SY	TONS	TONS	TONS	TONS	SY	TONS	SY	EA	EA	LF	LF
8C.062016	Montgomery	3	SR 1127	FROM NC 109 TO SR 1118	12	NO	NO	1.66	24													23,373				
TOTAL F	OR PROJ NO. 8	C.0620	016					1.66														23,373			L	
			***************************************							4																
					2,3,4,5,															1					1	
				PAVEMENT JOINT TO	7,8,9,																				1	1
8CR 10621 19	Montgomery	1	NC 109	BEGIN C&G IN MT. GILEAD		NO	NO	6.77	38	12,604	2,225			2,270	650	1,830	21,690		1,389	120,275	230			1	1	1
CCINITOCETIES	Wondgomery	 	NC 109	NC 73 TO NC 731	1,6	NO	NO	0.43	24	/		6,579	312	<u> </u>	1.254	50	690		44				1	5	1,600	150
TOTAL FO	R PROJ NO. 8C	<u></u>		NC 73 10 NC 731	1,0		110	7.2		12,604	2,225	6,579	312	2,270	1,904	1,880	22,380		1,433	120,275	230	1	1	6	1,600	150
IOTALFO	R PROJ NO. 8C	N.1002	1.19		<u> </u>	L		1.2		12,004	2,223	0,373	1 312		1 2,504	1 2,000	1 22,500	l'	2)133	1		<u> </u>		L		
000 20021 10	I 34		CD 4407	NC 109 TO SR 1118	12	I NO	NO	1.66	24	<u> </u>		Γ	T T	T T	r	1		3,405	228	T		1				T
8CK.20621.19	Montgomery				12	NO										 	75	3,403	5	-						+
			SR 1585	NC 109 TO GATE	6	NO	NO	0.032	40				 			205		 		 				 		+
	<u> </u>		SR 1633	NC 109 TO GATE	13	NO	NO	0.12	36	ļ			 			385	225	0.405	32			_	-,		 	
TOTAL FO	TOTAL FOR PROJ NO. 8CR.20621.19				<u> </u>	<u> </u>	L	1.812		<u> </u>	<u> </u>	L	<u> </u>	<u> </u>	L	385	300	3,405	265	L	L	L	l	L	<u> </u>	
								·								·		T =	r	T		T		1	1 4 500	1 450
	GRAND TOTAL	L				1		10.672		12,604	2,225	6,579	312	2,270	1,904	2,265	22,680	3,405	1,698	120,275	230	23,373	1 1	6	1,600	150

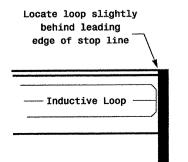
THERMOPLASTIC AND PAINT QUANTITIES

, <u>,</u>			,		,			· · · · · · · · · · · · · · · · · · ·					T	r			1				1 10000	20000 11
							4589000000-N					00000-E						0000-E	4810000000-E		490000000-N	
PROJECT	COUNTY	MAP	ROUTE	DESCRIPTION	LENGTH	WIDTH	TEMPORARY	4" X 90 M	4" X 120	4" X 120	8" X 90 M	8" X 90 M	16" X 120	24" X 120	THERMO	THERMO	THERMO	THERMO	4" WHITE	4" YELLOW	YELLOW &	CRYSTAL &
							TRAFFIC	WHITE	M WHITE	М	YELLOW	WHITE	M WHITE	M WHITE	MSG SCHOOL	RXR 120 M	LT	RT	PAINT	PAINT	YELLOW	RED
							CONTROL	THERMO	THERMO	YELLOW	THERMO	THERMO	THERMO	THERMO	120 M		ARROW	ARROW			MARKERS	MARKERS
										THERMO							90 M	90 M				
NO		NO					LS	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	LF	LF	EA	EA
8C.062016	Montgomery	3	SR 1127	FROM NC 109 TO SR 1118	1.66	24									,							
TOTALE	OR PROJ NO. 8	c ocao	16		1.66		1									L		<u> </u>				
IOIALF	OK PROJ NO. 8	C.UbZU	170	·															<u> </u>		<u> </u>	
														,				·				
				PAVEMENT JOINT TO																		
8CR.10621.19	Montgomery	1	NC 109	BEGIN C&G IN MT. GILEAD	6.77	38		76,900	1,750	73,500	3,800	600		182	12		23	1	80,000	80,000	821	100
		2	NC 109	NC 73 TO NC 731	0.43	24		4,450	120	4,950				100			2		4,600	4,600	28	6
					7.2		*	81,350	1,870	78,450	3,800	600		282	12	ŕ	25	1	84,600	84,600	849	106
IOIALFO	R PROJ NO. 8CI	4.1062	1.19				·		80,320		4,400		12		2	25		169,200		9	955	
																						
8CR.20621.19	Montgomery	3	SR 1127	NC 109 TO SR 1118	1.66	24							100	70		4			36,000	22,000		
		4	SR 1585	NC 109 TO GATE	0.032	40	1												700	700		
		5	SR 1633	NC 109 TO GATE	0.12	36	1						50	60		2			1,200	1,200		
					1.812		*						150	130		6			37,900	23,900		
TOTAL FO	TOTAL FOR PROJ NO. 8CR.20621.19									<u> </u>					(5			6	1,800		
				*																		
	GRAND TOTAL				10.672		1	81,350	1,870	78,450	3,800	600	150	412	12	6	25	1 1	122,500		849	106
1	GRAIND IOTAL	•							80	,320	4	,400			1	8	1 2	26	23	1,000	9	955





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.

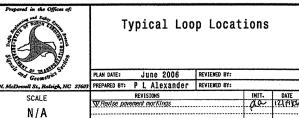
Single 6' X 6' (1.8m X 1.8m) loop (wired separately):

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



PROJECT REFERENCE NO.

See Below

8CR.10621.19

8C.062016 8CR.20621.19 SHEET NO

SIG 1