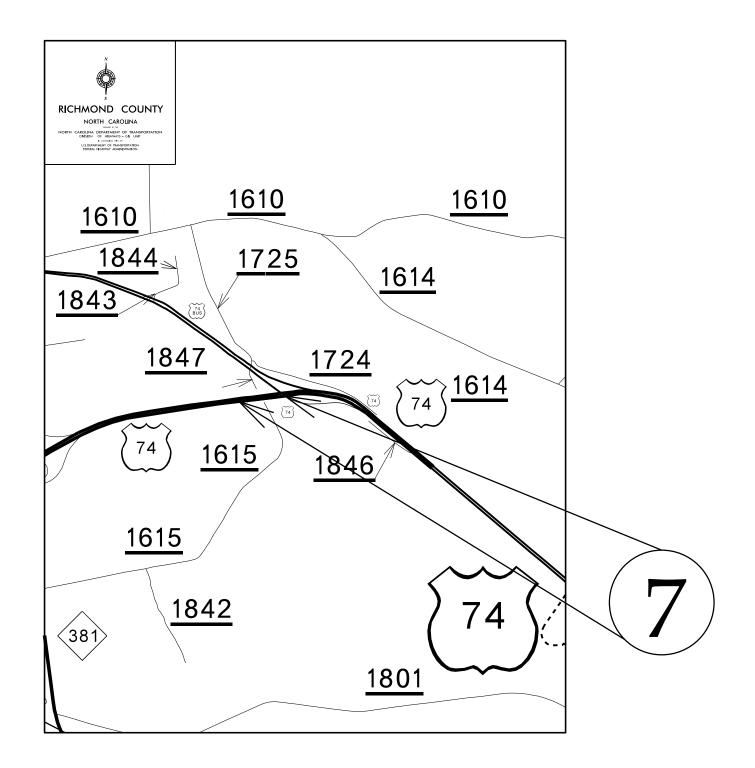


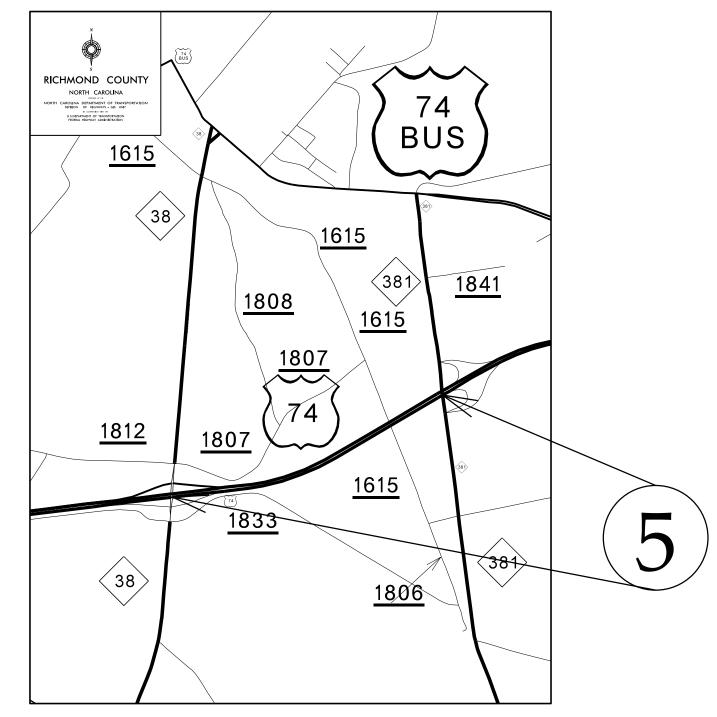


2021CPT.08.15.10771 2021CPT.08.15.20771

WBS ELEMENT

SHEET NO.





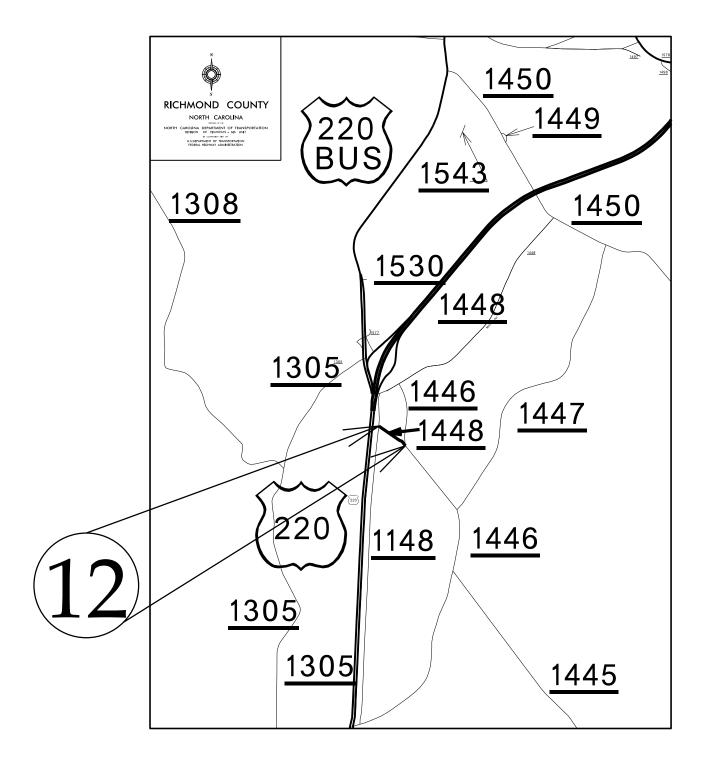
WBS ELEMENT SHEET NO. 2021CPT.08.15.10771 2021CPT.08.15.20771 <u> 1623</u> RICHMOND COUNTY NORTH CAROLINA <u>1608</u> NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS - GIS UNIT BY COMMUNICATION OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL HIGHWAY ADMINISTRATION 1616 <u>1615</u> 74 BUS 1812 <u>1615</u> <u> 1811</u> (38) 1615 381 1812 1841 1808 1615 <u>1807</u> 1825 <u>1812</u> <u> 1812</u> <u>1807</u> 1811 <u>1849</u> 1615 1833 1845 (381) 38 1825 1806 74 1825 <u>1804</u> 1829 <u> 1805</u>

WBS ELEMENT SHEET NO. 2021CPT.08.15.10771 2021CPT.08.15.20771 <u>1434</u> 1432 1812 1989 RICHMOND COUNTY <u>1435</u> RICHMOND COUNTY NORTH CAROLINA NORTH CAROLINA CAROLINA DEPARTMENT OF TRANSPO DMISON OF HIGHWAYS - GIS UNIT <u>1513</u> <u>1825</u> <u>1551</u> <u> 1430</u> 1567 1812 <u>152</u>4 1429 1566 1418 <u> 1811</u> 1424 1849 1548 1427 <u>1431 1515</u> <u> 1423</u> 1845 1418 74 1825 1426 1423 <u>1424</u> 1412 1645 1825 1646 1419 1643 1826 <u>1646</u> <u>1642</u> 1648 1803 <u> 1903</u> <u>1624</u>

40397

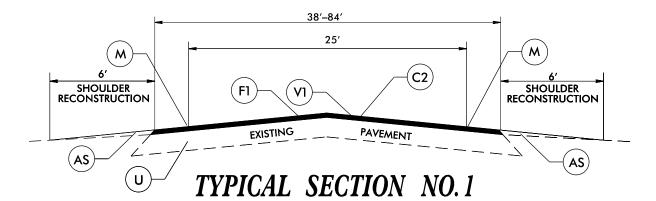
WBS ELEMENT SHEET NO.

2021CPT.08.15.10771
2021CPT.08.15.20771



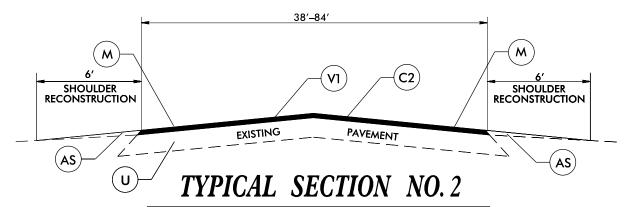
WBS ELEMENT SHEET NO.

2021CPT.08.15.10771
2021CPT.08.15.20771

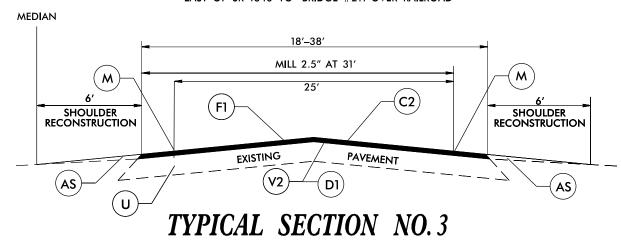


NOTE: OPEN-GRADED FRICTION COURSE TO BE PLACED BETWEEN MILLED RUMBLE STRIPS ONLY.

NOTE: USE FOR MAP #1 FROM BRIDGE #211 OVER RAILROAD TO BRIDGE #210 OVER NC 381



NOTE: USE FROM START OF MAP #1 0.4 MILES EAST OF SR 1846 TO BRIDGE #211 OVER RAILROAD



NOTE: 2.5" MILLING TO BE PERFORMED BETWEEN MEDIAN AND OUTSIDE OF EXISTING RUMBLE STRIPS.

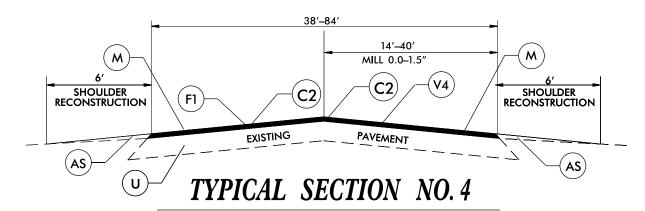
NOTE: OPEN-GRADED FRICTION COURSE TO BE PLACED BETWEEN MILLED RUMBLE STRIPS ONLY.

NOTE: USE FOR MAP #3 FROM STA. 0+00 TO STA. 37+90 USE FOR MAP #4 FROM STA. 2+10 TO STA. 97+72 USE FOR MAP #6 FROM STA. 3+54 TO STA. 42+00

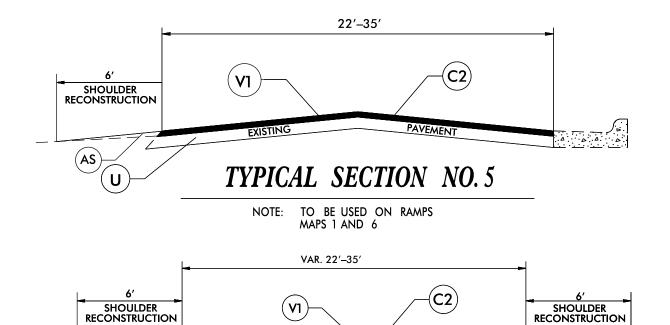
	PAVEMENT SCHEDULE
AS	AGGREGATE SHOULDER BORROW (ASB)
C 1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 3.0" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO (2) LAYERS
D1	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE 119.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
F1	PROP. APPROX. 5/8" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-1 MODIFIED, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
М	MILLED RUMBLE STRIPS
V1	1.5" MILLING
V2	2.5" MILLING
V3	3.0" MILLING
V4	0.0"-1.5" MILLING
U	EXISTING PAVEMENT

WBS ELEMENT SHEET NO.

2021CPT.08.15.10771 2021CPT.08.15.20771



NOTE: USE AT RAMP NO.319, MAP NO. 4 NOTE: OPEN-GRADED FRICTION COURSE TO BE PLACED BETWEEN MILLED RUMBLE STRIPS ONLY.



TYPICAL SECTION NO. 6

NOTE: TO BE USED ON RAMPS
MAPS 1,4,5,6

PAVEMENT

EXISTING

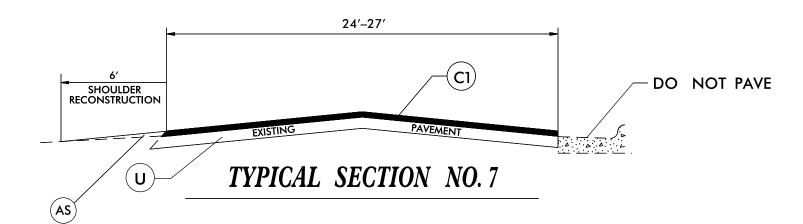
AS

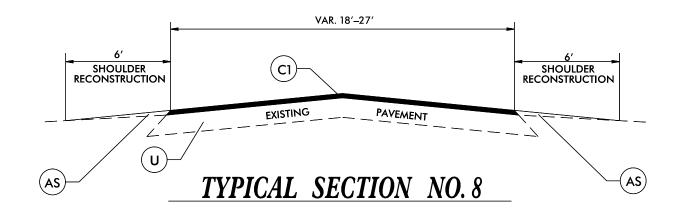
	PAVEMENT SCHEDULE
AS	AGGREGATE SHOULDER BORROW (ASB)
C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5B, AT AN AVERAGE RATE OF 165 LBS. PER \$Q. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5D, AT AN AVERAGE RATE OF 168 LBS. PER \$Q. YD.
C3	PROP. APPROX. 3.0" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO (2) LAYERS
D1	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE 119.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
F1	PROP. APPROX. 5/8" OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-1 MODIFIED, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
М	MILLED RUMBLE STRIPS
V 1	1.5" MILLING
V2	2.5" MILLING
V3	3.0" MILLING
V4	0.0"-1.5" MILLING
U	EXISTING PAVEMENT

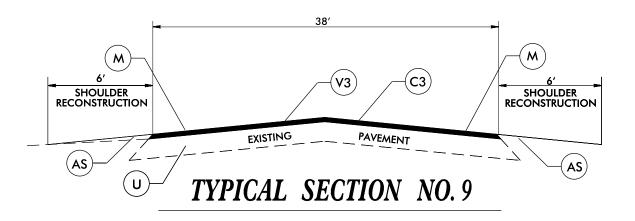


WBS ELEMENT SHEET NO.

9
2021CPT.08.15.10771
2021CPT.08.15.20771



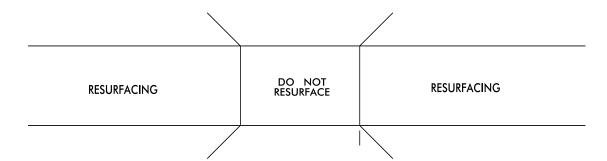




	PAVEMENT SCHEDULE
AS	AGGREGATE SHOULDER BORROW (ASB)
C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C3	PROP. APPROX. 3.0" ASPHALT CONC. SURFACE COURSE, TYPE \$9.5D, AT AN AVERAGE RATE OF 168 LBS. PER \$Q. YD. IN EACH OF TWO (2) LAYERS
D1	PROP. APPROX. 2.5" ASPHALT CONC. INTERMEDIATE COURSE, TYPE 119.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
F1	PROP. APPROX. 5/8" OPEN–GRADED ASPHALT FRICTION COURSE, TYPE FC–1 MODIFIED, AT AN AVERAGE RATE OF 70 LBS. PER SQ. YD.
M	MILLED RUMBLE STRIPS
V1	1.5" MILLING
V2	2.5" MILLING
V3	3.0" MILLING
V4	0.0"-1.5" MILLING
U	EXISTING PAVEMENT

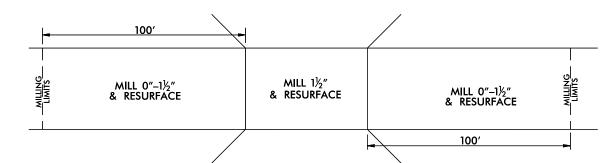


2021CPT.08.15.10771 2021CPT.08.15.20771



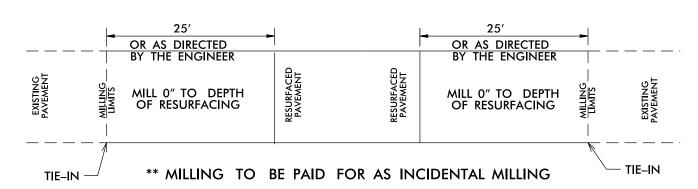
BRIDGE DRAWING FOR MAP NO 1,2,3,4,5,6,7,8 US HWY 74 EBL/WBL (BRIDGE NO 190,191,207,208,209,210,211,212,213,214)

* TIE IN OPEN-GRADED ASPHALT FRICTION COURSE TO THE BRIDGE.



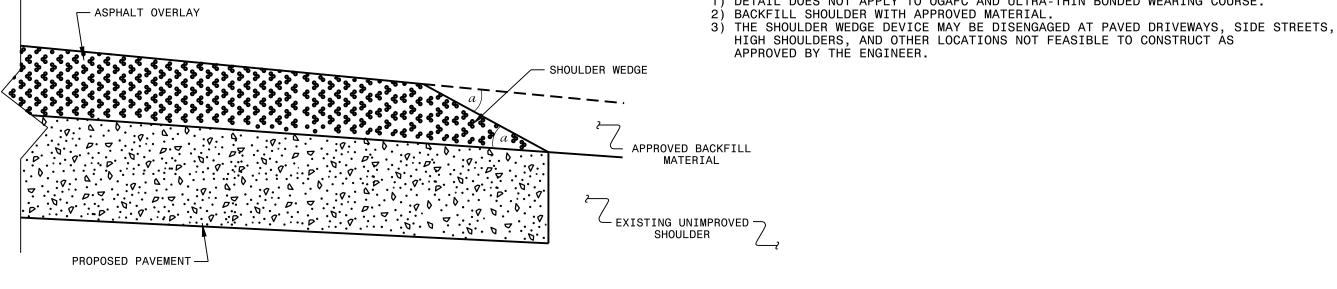
BRIDGE DRAWING FOR MAP NO 9 SR 1825 AIRPORT RD (BRIDGE NO 18)

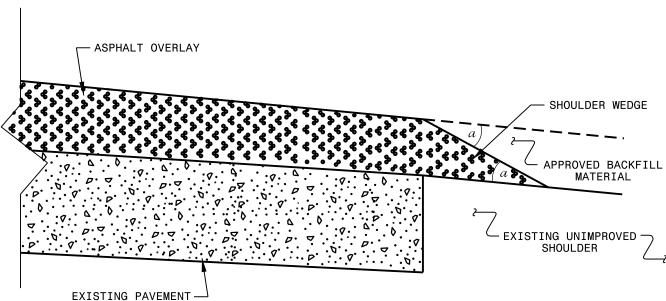
* MILLING FOR APPROACHES SHALL BE PAID FOR UNDER INCIDENTAL MILLING



PAVEMENT TIE-IN DETAIL







ASPHALT OVERLAY SHOULDER WEDGE APPROVED BACKFILL MATERIAL EXISTING UNIMPROVED SHOULDER W. RUTTING EXISTING PAVEMENT

SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ Widening or with Existing Paved Shoulder having no dropoffs)

SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-411

SHOULDER WEDGE DETAILS

ORIGINAL BY: T.SPELL DATE: 7-19-11
MODIFIED BY: DATE: 2/2/16
CHECKED BY: DATE: DATE:
FILE SPEC: s:usr/details/stand/shoulderwedgedetail.dgn

SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.08.15.10771,	12	
2021CPT.08.15.20771	12	

SUMMARY OF QUANTITIES

												1260000000-		1297000000-1		1308000000-E	1330000000-E	1503000000-E	1519000000-E	1524200000-E	1575000000-E	1577000000 5	1662000000 5	1840000000-E	2830000000	N 2845000000-N	
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES L	PE SURF	FACE AS	ARM MIX I SPHALT QUIRED			SHOULDER RECONSTRUCT ON	AGGREGATE SHOULDER BORROW	1.5" MILLING	MILLING	3" MILLING		INCIDENTAL MILLING	INTERMEDIATE	SURFACE COURSE, S9.5B	ASPHALT CONC SURFACE COURSE, TYPE S9.5D	ASPHALT BINDER FOR PLANT MIX	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	OGAFC, TYPE FC-1 MOD.	MILLED RUMBLE STRIPS	ADJUST MANHOLES	ADJUST METER OR VALVE BOX
										MI	FT	SMI	TON	SY	SY	SY	SY	SY	TONS	TONS	TON	TONS	TONS	TON	LF	EA	EA
2021CPT.08.15.10771	Richmond	1	WB US HWY 74 BYPASS	FROM 0.4MI E. OF SR 1846 TO BRIDGE NO 210(AT NC HWY 381)(INCLUDES RAMPS AT EXIT 320)) 1,2,5,6	5 2 1	1D N	0	NO	2.47	31	4.77	668	66,185				583			6,169		462	1,804	22,835		
	TOTAL FOR	MAP NO. 1								2.47		4.77	668	66,185				583			6,169		462	1,804	22,835		
2024 077 02 45 40774	B: 1			FROM BRIDGE NO. 210(AT NCHWY 381) TO 1.1 MI. W. OF BRIDGE NO. 191 (NC HWY 38 LOUIS BREEDEN						2.52		2.25	222	65.405											0.050		
2021CPT.08.15.10771	TOTAL FOR I	MAP NO. 2	WB US HWY 74 BYPASS	BLVD)	1	2 1	1D N	0		2.52 2.52	39	2.36 2.36	330 330	66,185 66,185				+			5,715 5,715		464 464	2,273 2,273	26,256 26,256		+
2021CPT.08.15.10771	Richmond		WB US HWY 74 BYPASS	FROM 1.1 MI. W. OF BRIDGE NO.191(AT NC HWY 38 LOUIS BREEDEN BLVD) TO BRIDGE NO.207(AT MARKS CRK.)	1,3	2 1	1D N	0		0.783	38	1.12	201	1,539	13,190				1,992		1,662	96	135	661	8,257		
	TOTAL FOR	MAP NO. 3								0.783		1.12	201	1,539	13,190				1,992		1,662	96	135	661	8,257		
2021CPT.08.15.10771	Richmond	4	EB US HWY 74 BYPASS	FROM BRIDGE NO 208 AT MARKS CREEK TO BRIDGE NO 190(AT NC 38)(INCLUDES EXIT 319 OFF RAMP TO NC 38)	1,3,4,6	5 2 1	1D N	0		1.91	38	3.55	496	8,822	33,119		1,350		5,055		4,792	243	389	1,906	20,140		
ļ	TOTAL FOR	MAP NO. 4		50014 0010 05 110 400/47 110 11010	.					1.91		3.55	496	8,822	33,119		1,350		5,055		4,792	243	389	1,906	20,140		
2021CPT.08.15.10771	Richmond	5	EB US HWY 74 BYPASS	FROM BRIDGE NO 190(AT NC HWY 38) TO BRIDGE NO 209(AT NC HWY 381)(INCLUDES EXIT 319 ON RAMP FROM NC 38)	1,6	2 1	1D N	0	NO	1.392	38	1.80	252	38,868							3,591		292	1,428	14,720		
	TOTAL FOR			,						1.392		1.80	252	38,868							3,591		292	1,428	14,720		
2021CPT.08.15.10771	Richmond TOTAL FOR	6 MAP NO. 6		FROM BRIDGE NO 209(AT NC HWY 381) TO BRIDGE NO 212(AT RXR)(INCLUDES RAMPS AT EXIT 320)	1,3,5,6	5 2 1	1D N	0		1.13 1.13	31	1.38 1.38	193 193	14,620 14,620	13,458 13,458				1,969 1,969		3,204 3,204	94 94	260 260	1,275 1,275	11,933 11,933		
2021CPT.08.15.10771	Richmond	7		FROM BRIDGE NO 212(AT RXR) TO BRIDGE NO 214(AT US HWY 74 BUS)		2 1	1D N	0		0.154	38	0.15	21	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3,538			,,,,,,		654		37		1,626		
	TOTAL FOR	MAP NO. 7								0.154		0.15	21			3,538					654		37		1,626		
2021CPT.08.15.10771	Richmond TOTAL FOR	8 MAP NO. 8	EB US HWY 74	FROM BRIDGE NO 214(AT US HWY 74 BUS) TO 0.4MI E. OF SR 1846	2	2 1	1D N	0	NO	1.081 1.081	32	2.10 2.10	295 295	27,332 27,332				1,472 1,472			2,738 2,738		156 156		8,838 8,838		
TOTAL	OR PROJ NO. 2	2021CPT.0	8.15.10771		-	1				11.44		17.23	2,456	223,551	59,767	3,538	1,350	2,055	9,016		28,525	433	2,195	9,347	114,605		
					1				l		<u> </u>	1		1			i .		I	I	1		<u> </u>			1	
2021CPT.08.15.20771	Richmond TOTAL FOR	9 MAP NO. 9	SR 1825(AIRPORT RD)	FROM PAVT JNT 0.085MI S. OF SR 1811(GIN MILL RD) TO AND THRU SR 1803(GHIO RD)	8	2 2	WU N	0		2.51 2.51	22	5.08 5.08	711 711	359 359				1,103 1,103		2,974 2,974		199 199					
				FROM SR 1424(ROBERDEL RD) TO US																							
2021CPT.08.15.20771	TOTAL FOR N		SR 1423(RICHMOND RD)	HWY 1(FAYETTEVILLE RD) FROM SR 1825(AIRPORT RD) TO SR	7,8	2 2	WU N	U	NO	1.63 1.63	24	3.19 3.19	447 447					3,516 3,516		2,485 2,485		166 166				14 14	11 11
2021CPT.08.15.20771	Richmond	11	SR 1811(GIN MILL RD)	1812(FREEMAN MILL RD)	8	2 2	NU N	О	NO	0.98	18	1.96	274					411		944	1	63					
	TOTAL FOR N			,						0.98		1.96	274					411		944		63					
2021CPT.08.15.20771	Richmond TOTAL FOR N	12 4AR NO. 1	SR 1448(CARGO RD)	FROM SR 1446(HAYWOOD CEMETARY RD) TO SR 1448(CARGO RD/US 220 SERVICE ROAD)	8	2 2	WU N	0		0.204 0.204	20	0.41 0.41	57 57					267 267		223 223		15					
					+	+				5.324		10.64	1,489	359				5,297	1	6,626	+	15 443				14	11
TOTAL	OR PROJ NO. 2	2021CPT.0	8.15.20771												•			-,		-,							1
	GRAND	TOTAL								16.764		27.87	3,945	223,910	59,767	3,538	1,350	7,352	9,016	6,626	28,525	876	2,195	9,347	114,605	14	11

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.08.15.10771, 2021CPT.08.15.20771	13	

THERMOPLASTIC AND PAINT QUANTITIES

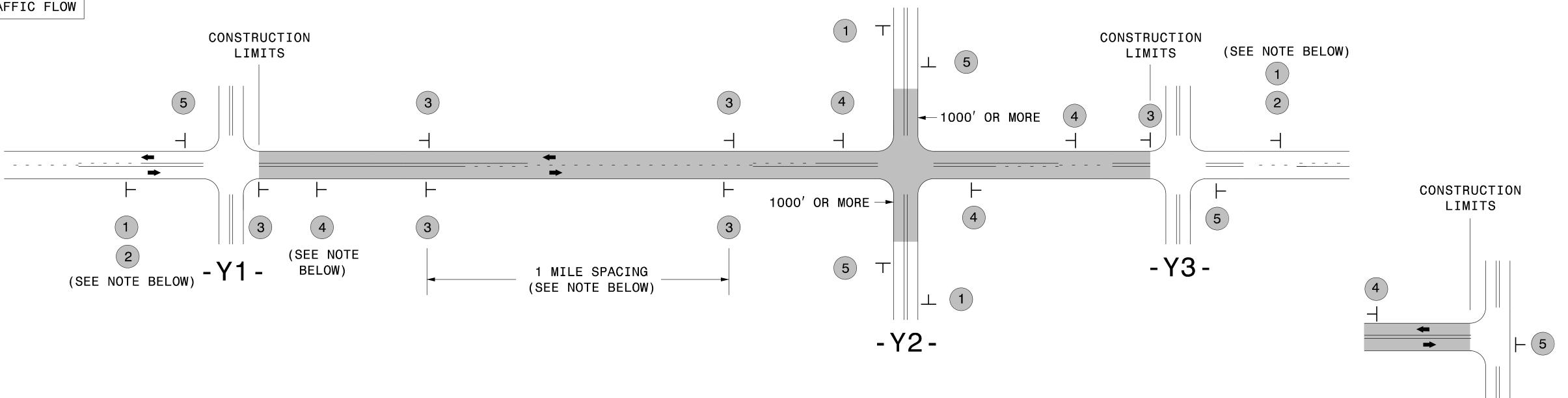
THERIVIOPLASTIC AND PAINT QUANTITIES														400500000	4650000000															
PROJECT NO COUNTY MAP NO	ROUTE	DESCRIPTION	TYP NO LAN	FS LANE	LENGTH			TEMPORARY	LAW	6" X 90 M			12" X 90 M				THERMO RT			8" WHITE	12" WHITE	24" WHITE	PAINT LT		PAINT MERGE	PAINT RT	6" LINE	GENERIC	SNOW	TEMPORARY
1.103201.110		2250 110.15		TYPE			DVANCE/GE		ENFORCEMEN		YELLOW	WHITE	WHITE	ARROW 90		MERGE	ARROW 90	PAINT	PAINT	PAINT	PAINT	PAINT	ARROW	ARROW	ARROW	ARROW	REMOVAL	PAVEMENT	PLOWABLE	RAISED
							NERAL	CONTROL	Т	THERMO	THERMO	THERMO	THERMO			ARROW 90M												MARKING	MARKERS C 8	& PAVEMENT C&
							WARNING																					ITEM - 24" X	R MARKERS	MARKERS
							SIGNING																					90 M WHITE		
				1 -	MI	FT	SF	LS	HR	LF	LF	LF	LF	EA	EΛ	EA	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	LF	THERMO LF	EA	EA
			 	+++	IVII	-	эг		пк	LF	Lr	Lr	Lr	LA	EA	LA	LA	Lr	Lr	LF	LF	Lr.	LA	LA	LA	LA	LF	LF	LA	- LA
		FROM 0.4MI E. OF SR 1846 TO																												
		BRIDGE NO 210(AT NC HWY																												
		381)(INCLUDES RAMPS AT EXIT 320)	1,2,5,6 2	MD		31	430		30	17,257	13,529		1,572	3	1			28,186	21,878		3,144		6	2			1,750		251	251
TOTAL FOR MAP NO.	1		1		2.47		430		30	17,257	13,529		1,572	3	1			28,186	21,878		3,144		6	2			1,750		251	251
		FROM BRIDGE NO. 210(AT NCHWY																												
		381) TO 1.1 MI. W. OF BRIDGE NO. 191 (NC HWY 38 LOUIS BREEDEN																												
2021CPT.08.15.10771 Richmond 2	WB US HWY 74 BYPASS	BLVD)	1 2	MD	2.52	39	430		32	17,057	13,153		1,647			7		34,566	26,658		3,294				14		402		248	248
TOTAL FOR MAP NO.		,			2.52		430		32	17,057		İ	1,647			7		34,566		1	3,294				14		402		248	248
		FROM 1.1 MI. W. OF BRIDGE								-																				1
		NO.191(AT NC HWY 38 LOUIS														1														
<u> </u>		BREEDEN BLVD) TO BRIDGE	1							_						1			_											
	WB US HWY 74 BYPASS	NO.207(AT MARKS CRK.)	1,3 2	MD		38			ļ	5,156	4,155		<u> </u>	+	1	+		10,312	8,310		ļ	 			1			ļ	52	52
TOTAL FOR MAP NO.	3	FROM BRIDGE NO 200 AT MADUS	+-+	+	0.783	\vdash			<u> </u>	5,156	4,155	+	+	+	+	+	-	10,312	8,310	 	1	 			-			1	52	52
		FROM BRIDGE NO 208 AT MARKS CREEK TO BRIDGE NO 190(AT NC																												
		38)(INCLUDES EXIT 319 OFF RAMP																												
	EB US HWY 74 BYPASS	TO NC 38)	1,3,4,6 2	MD	1.91	38	270	*	18	13,572	11,003	76	921	1			1	27,576	22,358	152	1,842	110	2			2	392	55	128	128
TOTAL FOR MAP NO.					1.91		270	-	18	13,572	11,003	76	921	1			1	27,576	22,358	152	1,842	110	2			2	392	55	128	128
		FROM BRIDGE NO 190(AT NC HWY																												
		38) TO BRIDGE NO 209(AT NC HWY																												
2024 CDT 00 45 40774 Bisharand 5	ED LIC LIVAN ZA DVDACC	381)(INCLUDES EXIT 319 ON RAMP FROM NC 38)		MD	1.392	38	270		10	10.606	8.447		780			2		22.172	17.534		1.560						800		139	139
2021CPT.08.15.10771 Richmond 5 TOTAL FOR MAP NO.	EB US HWY 74 BYPASS	PROWING 38)	1,6 2		1.392	50	270 270		10	10,606		-	780 780	-		3		22,172		+	1,560			-	6		800	1	139	139
TOTAL FOR WAP NO.	<u> </u>		 	+++	1.352	 	270		10	10,000	0,447	+	780	-		-		22,172	17,554	-	1,300				-		800		133	133
		FROM BRIDGE NO 209(AT NC HWY																												
		381) TO BRIDGE NO 212(AT																												
	EB US HWY 74 BYPASS	RXR)(INCLUDES RAMPS AT EXIT 320)	1,3,5,6 2	MD	1.13	31	350		6	9,796	8,999		921			3		19,592	17,998		1,842				6				132	132
TOTAL FOR MAP NO.	6		1		1.13		350		6	9,796	8,999		921			3		19,592	17,998		1,842				6				132	132
		50014 0010 05 NO 040/ 47 0V0) TO																												
2021CPT.08.15.10771 Richmond 7	EB US HWY 74 BYPASS	FROM BRIDGE NO 212(AT RXR) TO BRIDGE NO 214(AT US HWY 74 BUS)		MD	0.154	20	350		1	1.008	818							1.598	1,288								530		13	13
TOTAL FOR MAP NO.		BRIDGE NO 214(AT 03 HWT 74 803)	3 2		0.154	36	350		1	1,008		+		-				1,598	1,288	-					+		530		13	13
	-		1 1						_									_,	-,	1										
		FROM BRIDGE NO 214(AT US HWY																												
2021CPT.08.15.10771 Richmond 8	EB US HWY 74	74 BUS) TO 0.4MI E. OF SR 1846	2 2	MD	1.081	32	350		6	8,394	5,712		654	4		3	1	8,394	5,712		654	41	4		3	1		41	114	114
TOTAL FOR MAP NO.	8				1.081		350		6	8,394	5,712		654	4		3	1	8,394	5,712		654	41	4		3	1		41	114	114
TOTAL FOR PROJ NO. 2021CPT.0	08.15.10771		1		11.44		2,450	*	103	82,846	65,816	76	6,495	8	1	16	2	152,396	121,736	152	12,336	151	12	2	29	3	3,874	96	1,077	1,077
		<u> </u>							l .	148	3,662	l .				27		274	1,132		l .				46			l .		+
		FROM PAVT JNT 0.085MI S. OF SR	1 1	1 1	-	1			1	ı	1	1	1	1	1	1					1	1	ı			ı	1	1		+
		1811(GIN MILL RD) TO AND THRU																												
2021CPT.08.15.20771 Richmond 9	SR 1825(AIRPORT RD)	SR 1803(GHIO RD)	8 2	2WU	2.51	22	681																							
TOTAL FOR MAP NO.	9				2.51		681																							
		FROM SR 1424(ROBERDEL RD) TO US																												`
	SR 1423(RICHMOND RD)	HWY 1(FAYETTEVILLE RD)	7,8 2	2WU	1.63	24	422																							
TOTAL FOR MAP NO. :	10	FROM CR 402F/AIRDORT RR) TO CR	+ +		1.63	 	422	*	-			-	-		-	+				1		1								+
2021CPT.08.15.20771 Richmond 11	SR 1811(GIN MILL RD)	FROM SR 1825(AIRPORT RD) TO SR 1812(FREEMAN MILL RD)		2WU	0.98	10	110	,																						
TOTAL FOR MAP NO. 3		1012(I REEWAN WILE RD)	0 2		0.98	10	110					-				+				+										+
													1	1	1	1					1	1						1		1
		FROM SR 1446(HAYWOOD																												
		CEMETARY RD) TO SR 1448(CARGO																												
2021CPT.08.15.20771 Richmond 12	SR 1448(CARGO RD)	RD/US 220 SERVICE ROAD)	8 2	2WU	0.204	20	182														ļ							ļ		
TOTAL FOR MAP NO. :	12	ļ	+-+		0.204	 -	182		1					-	1	+				-	1				1			1		+
TOTAL FOR PROJ NO. 2021CPT.0	08.15.20771		 		5.324	 -	1,395	•									L			1										
		1							1	<u> </u>		1	1							1	1	1	<u> </u>				l	1		+
			1 1	1 1	16.76		3,845	1	103	82.846	65,816	76	6,495	8	1	16	2	152 396	121,736	152	12,336	151	12	2	29	3	3,874	96	1,077	1,077
GRAND TOTAL							3,013	-			3,662	1	0,-33	1 -		27			1,132		12,000	1 222			46		5,5, -	1 22	2,0	
		•										•	•							•		•	•							

PROJ. REFERENCE NO. TMP-1 2021CPT.08.15.10771,etc.

SIGNING FOR RESURFACING PROJECTS



← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

NOI ZO Ш \triangleleft \Box SH

NO ER

IGNIN

SO

5

ROAD ` WORK AHEAD W20-1 48" X 48"

PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.

ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)



- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.
- AT TEE INTERSECTIONS INSTALL INITIALLY ½ MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.
- **ROAD** UNDER
- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS.
- DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.
 - INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.
 - FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS. TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH.
 - A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.
 - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.

END ROAD WORK G20-2 A 48" X 24"

PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.

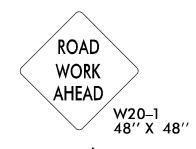
THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

MAPS LESS THAN 2 MILES FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

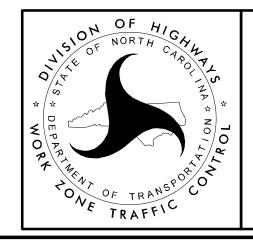
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



PLACED 500' IN ADVANCE OF FLAGGER.

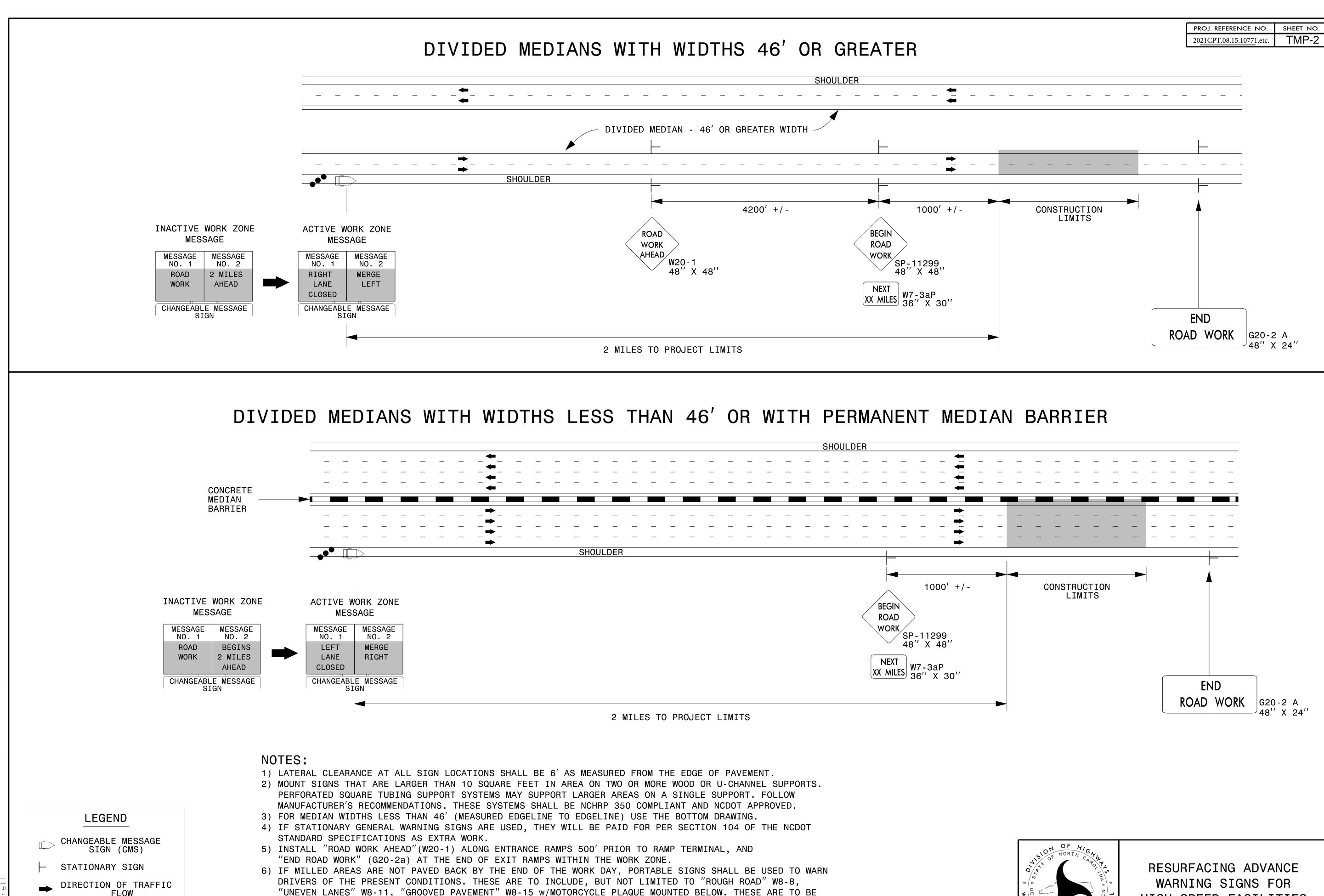


PLACED 250' IN ADVANCE OF FLAGGER.



ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

TEE INTERSECTION



DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER AND WITH DIVIDED MEDIANS

OF 46' OR GREATER. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE

TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

TRAFFIC DRUM

HIGH SPEED FACILITIES ≥ 60 MPH