STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION 6

PLANS

Letting Date: September 18, 2024

CONTRACT ID: DF00488

TIP NO.: -----

FEDERAL AID NO.: STATE FUNDED

WBS ELEMENT NO.: 2025CPT.06.03.10241.1 & 2025CPT.06.03.20241.1

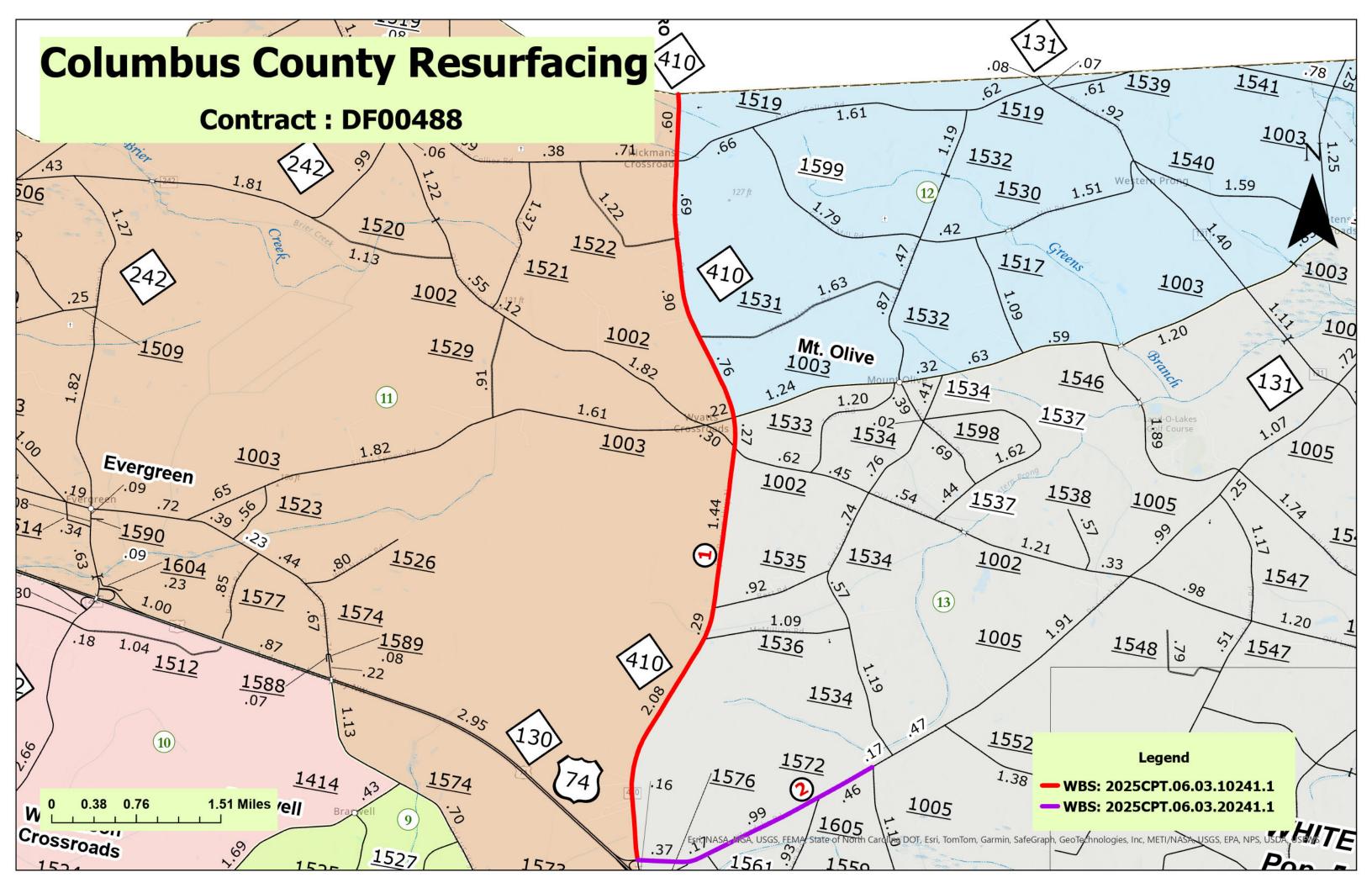
ROUTE NO.: VARIES

LOCATION: VARIES

COUNTY: COLUMBUS

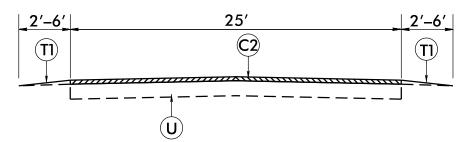
LENGTH OF PROJECT: 8.905 MILES

TYPE OF WORK: WIDENING, RESURFACING, MILLING & PAVEMENT MARKINGS



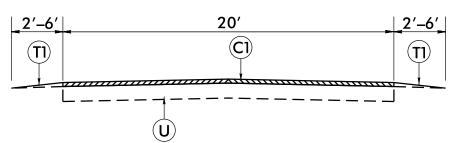
PROJECT REFERENCE NO. SHEET NO.

	PAVEMENT SCHEDULE
C1	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	$1\frac{1}{2}$ " ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	$2lac{1}{2}^{\prime\prime}$ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C,AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	4" ASPHALT CONCRETE BASE COURSE, TYPE B25.OC, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
Т1	SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT
V1	0" - 1½" MILLING
V2	1½" MILLING
٧3	2½″ MILLING



TYPICAL SECTION NO. 1

-PLUS 2' INSIDE CURVE WIDENING (SEE DETAIL)

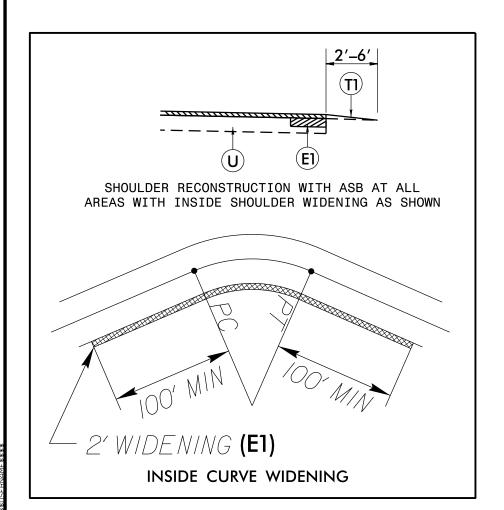


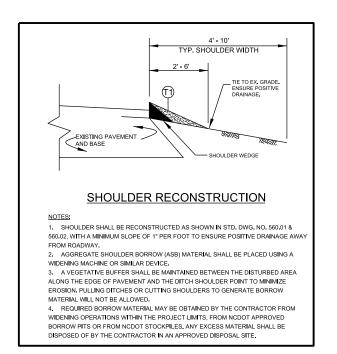
TYPICAL SECTION NO. 2

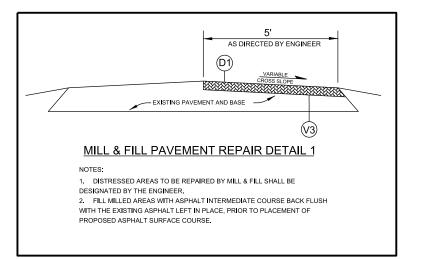
-PLUS 2' INSIDE CURVE WIDENING (SEE DETAIL)

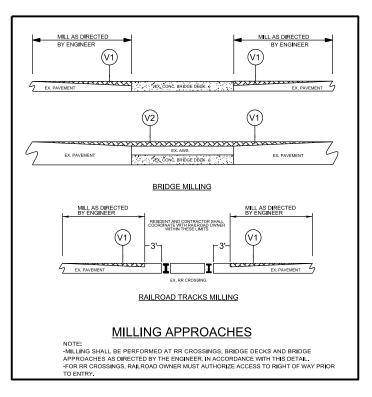
**PLUS 2.5" MILL AND FILL (SEE DETAIL 2)

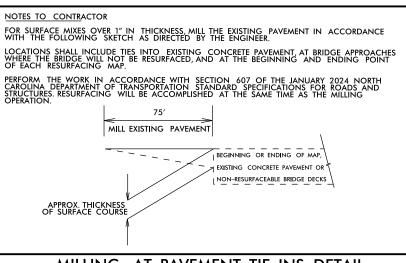
***PLUS S9.5B LEVELING COURSE, AS DIRECTED BY ENGINEER











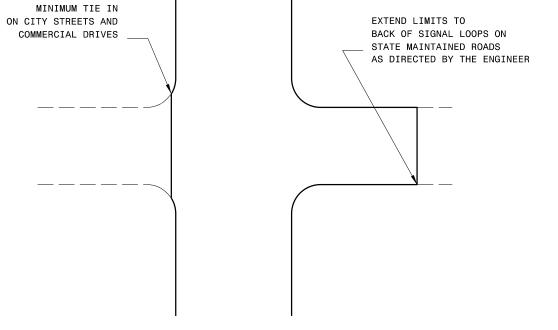
MILLING AT PAVEMENT TIE-INS DETAIL

SHEET NO. PROJECT REFERENCE NO. EXTEND LIMITS TO MINIMUM TIE IN

BACK OF RADIUS ON

STATE MAINTAINED ROADS

AS DIRECTED BY THE ENGINEER



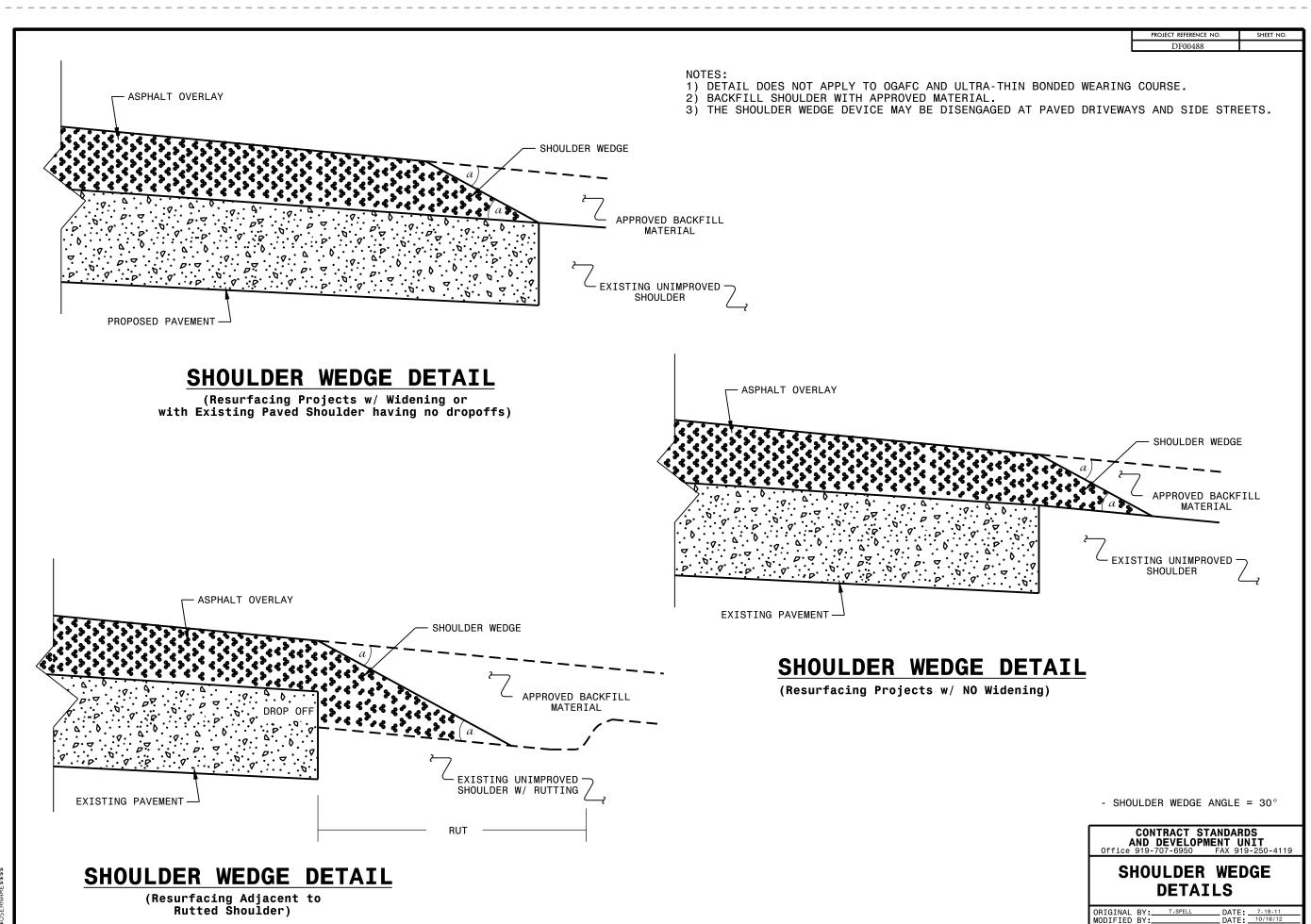
TYPICAL DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES

TYPICAL DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

	ADDITIONAL INTERSECTIONS (NON-	TYPICAL)
	Extend paving limits to back of radius	
MAP#	STREET NAME	COMMENTS
1	SR 1519 LT	44 FT from EP of L-line = 221.22 SY
1	SR 1519 RT	73 FT from EP of L-line = 344.72 SY
1	SR 1522	44 FT from EP of L-line = 205.33 SY
1	SR 1531	47 FT from EP of L-line = 208.89 SY
1	SR 1535	57 FT from EP of L-line = 355.93 SY
1	SR 1536	87 FT from EP of L-line = 485.48 SY
2	SR 1576	104 FT from EP of L-line = 448.36 SY
2	SR 1561	60 FT from EP of L-line = 237.78 SY
2	SR 1562	74 FT from EP of L-line = 525.05 SY

ON CITY STREETS AND

COMMERCIAL DRIVES _

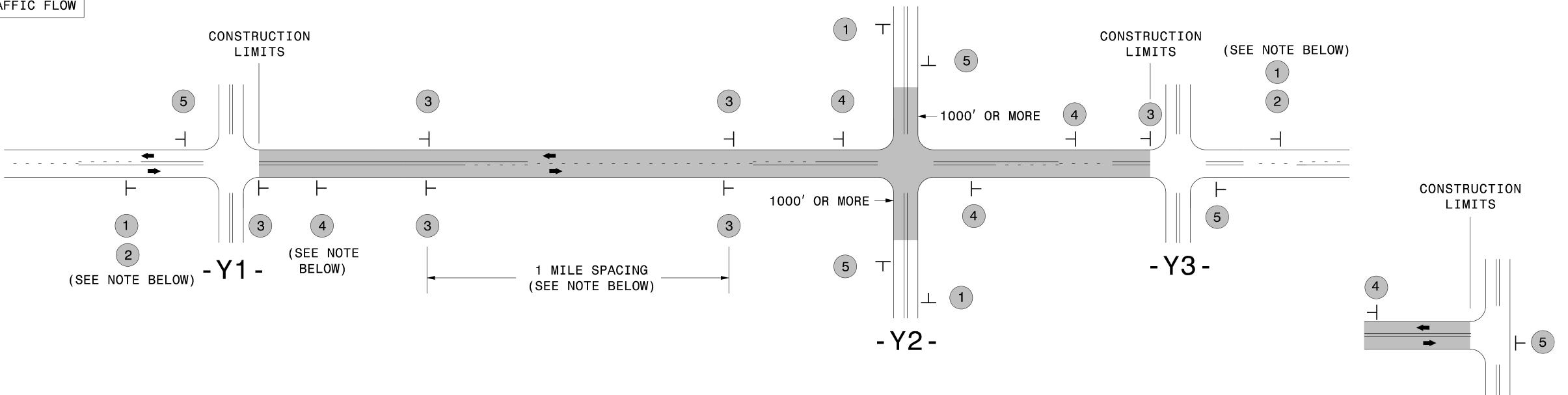


PROJ. REFERENCE NO. DF00488

SIGNING FOR RESURFACING PROJECTS



← DIRECTION OF TRAFFIC FLOW

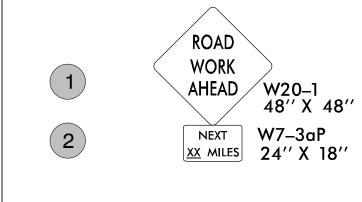


MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

NOI ZO Ш \triangleleft \Box SH NO ER **5** IGNIN

SO



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.

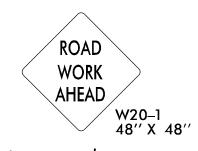
MAPS LESS THAN 2 MILES

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

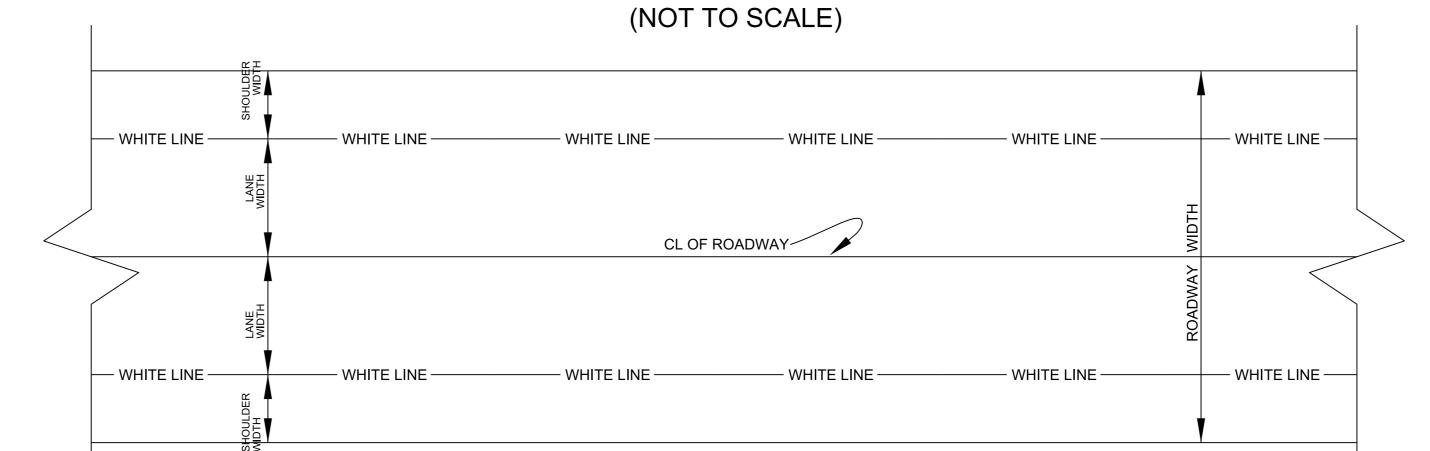
GUIDELINES FOR LANE WIDTHS ON RESURFACING PROJECTS

Contractor shall place the new pavement markings in accordance with this table and detail unless otherwise directed by the Engineer.

TWO LANE - TWO WAY ROADWAY - 55 MPH											
ROADWAY WIDTH	LANE WIDTH	SHOULDER WIDTH									
18'	9' *	0'									
20'	10' *	0'									
22'	10'	1'									
24'	10'	2'									
26'	11'	2'									
28'	12'	2'									
32'	12'	4'									

TWO LANE - TWO WAY ROADWAY MPH OR LESS 50												
ROADWAY WIDTH	SHOULDER WIDTH											
18'	9' *	0'										
20'	10' *	0'										
22'	10'	1'										
24'	10'	2'										
26'	11'	2'										
28'	11'	3'										
32'	11'	5'										
* May vary due to pavemer	nt width	,										

SCHEMATIC OF ROADWAY



PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.06.03.10241.1,etc		

SUMMARY OF QUANTITIES

														1220000000-E	1245000000-E	1260000000-E	1297000000-E	1330000000-E	1491000000-E	1503000000-E	1519000000-E	1520000000-E	1523000000-E	1575000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE	FINAL	WARM MIX	LENGTH	WIDTH	BEGIN MP	END MP	INCIDENTAL	SHOULDER	AGGREGATE	2 1/2" MILLING	INCIDENTAL	BASE COURSE,	INTERMEDIATE	SURFACE	LEVELING	SURFACE	ASPHALT
									ASPHALT REQUIRED					STONE BASE	RECONSTRUCT ION	SHOULDER BORROW		MILLING	B25.0C	COURSE, I19.0C	COURSE, S9.5B	COURSE, S9.5E	COURSE, S9.5C	BINDER FOR PLANT MIX
										MI	FT			TONS	SMI	TON	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS
2025CPT.06.03.10241.1	Columbus	1	NC-410	FROM SR 1572 TO BLADEN COUNTY	1	2		NO	NO	6.935	25	17.215	24.15	10	12.97	1,946		840	437				9,334	570
TOTA	AL FOR MAP	NO. 1								6.935				10	12.97	1,946		840	437				9,334	570
TOTAL FOR PROJ	NO. 2025CF	PT.06.03.1	10241.1							6.935				10	12.97	1,946		840	437				9,334	570
2025CPT.06.03.20241.1	Columbus	2	SR-1572 / KLONDYKE RD	FROM NC 410 TO SR 1005	2	2		NO	NO	1.97	20	0	1.97	10	3.92	530	355		56	53	2,278	62		157
TOTA	AL FOR MAP	NO. 2								1.97				10	3.92	530	355		56	53	2,278	62		157
TOTAL FOR PRO	J NO. 2025CI	PT.06.03.2	20241.1							1.97				10	3.92	530	355		56	53	2,278	62		157
	GRAND TOTA	\L								8.905				20	16.89	2,476	355	840	493	53	2,278	62	9,334	727

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.06.03.10241.1,etc		

THERMOPLASTIC AND PAINT QUANTITIES

												4413000000-E	4457000000-N	468500	0000-Е	490000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE	LENGTH	WIDTH	BEGIN MP	END MP	WORK ZONE	TEMPORARY	4" X 90 M	4" X 90 M	YELLOW &
							TYPE					ADVANCE/GE	TRAFFIC	YELLOW	WHITE	YELLOW
												NERAL	CONTROL	THERMO	THERMO	MARKERS
												WARNING				
												SIGNING				
								MI	FT			SF	LS	LF	LF	EA
25CPT.06.03.102	24: Columbus	1	NC-410	FROM SR 1572 TO BLADEN COUNTY	1	2		6.935	25	17.215	24.15	550	0.79	29,381	69,944	473
	TOTAL F	OR MAP	NO. 1					6.935				550	0.79	29,381	69,944	473
TOTAL	EOR BROLNO	2025CD	T.06.03.10241.1					6.935				550	0.79	29,381	69,944	473
TOTAL	TORPROJNO	. 2023GF	1.00.03.10241.1											99,	325	
25CPT.06.03.20	24 Columbus	2	SR-1572 / KLONDYKE RD	FROM NC 410 TO SR 1005	2	2		1.97	20	0	1.97	187	0.21	10,043	21,313	136
	TOTAL F	OR MAP	10.2					1.97				187	0.210	10,043	21,313	136
TOTAL	EOD DDOLNO	202500	T.06.03.20241.1					1.97				187	0.210	10,043	21,313	136
IOIAL	LT ON PROJ NO	7. 2023GF	1.00.03.20241.1											31,356		
														<u> </u>	·	
	CDA	ND TOTA	<u> </u>					8.905				737	1.000	39,424	91,257	609
	JAP	NIO IOIA												130	,681	