# STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION 6

### **PLANS**

Letting Date: February 5, 2025

**CONTRACT ID: DF00504** 

**TIP NO.:** -----

FEDERAL AID NO.: STATE FUNDED

WBS ELEMENT NO.: 2025CPT.06.11.20241.1

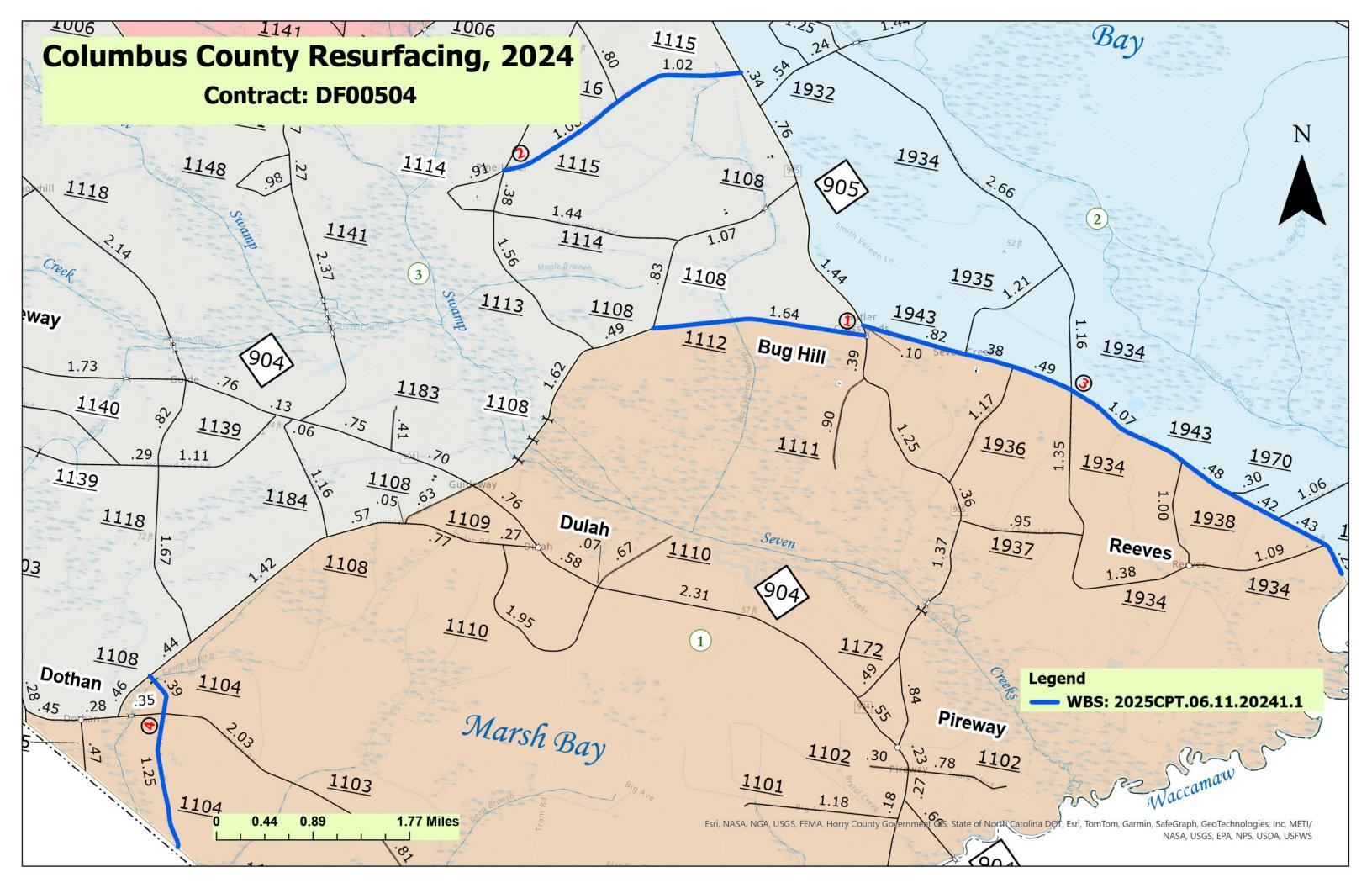
**ROUTE NO.: VARIES** 

**LOCATION: VARIES** 

**COUNTY: COLUMBUS** 

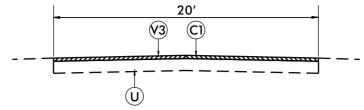
LENGTH OF PROJECT: 9.74 MILES

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



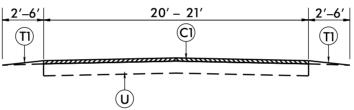
PROJECT REFERENCE NO.	SHEET
DF00504	

	PAVEMENT SCHEDULE
C1	1½″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
D1	2½″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C,AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
E1	4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT
V1	0" - 1½" MILLING
V2	34" MILLING
٧3	1½" MILLING
V4	2½" MILLING



#### TYPICAL SECTION NO. 1

-PLUS 2' INSIDE CURVE WIDENING (SEE DETAIL)

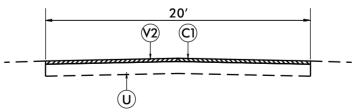


#### TYPICAL SECTION NO. 2

-PLUS 2' INSIDE CURVE WIDENING (SEE DETAIL)

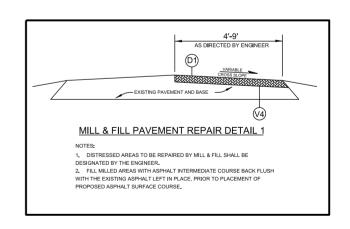
-PLUS 2.5" MILL AND FILL WITH I19.0C (SEE DETAIL 1)

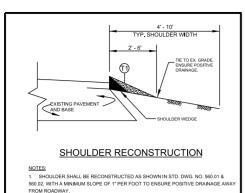
-PLUS S9.5B LEVELING COURSE AS DIRECTED BY ENGINEER



#### TYPICAL SECTION NO. 3

-PLUS 2' INSIDE CURVE WIDENING (SEE DETAIL)





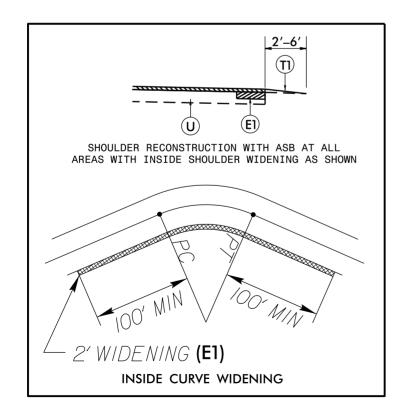
2. AGGREGATE SHOULDER BORROW (ASB) MATERIAL SHALL BE PLACED USING A WIDENING MACHINE OR SIMILAR DEVICE.

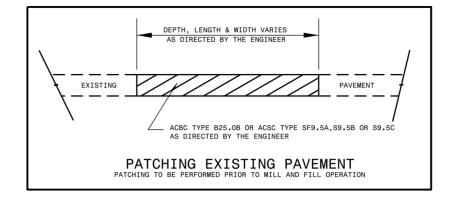
3. A VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN THE DISTURBED AREA ALONG THE EDGE OF PAVEMENT AND THE DITCH SHOULDER POINT TO MINIMIZE EROSION. PULLING DITCHES OR CUTTING SHOULDERS TO GENERATE BORROW

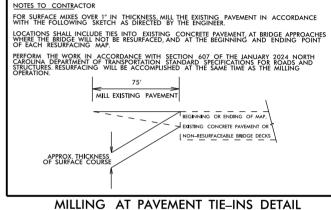
4 REQUIRED BORROW MATERIAL MAY BE OBTAINED BY THE CONTRACTOR FROM

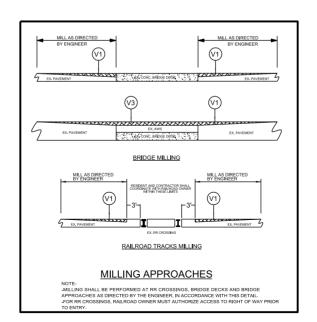
WIDENING OPERATIONS WITHIN THE PROJECT LIMITS, FROM NCDOT APPROVED BORROW PITS OR FROM NCDOT STOCKPILES. ANY EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN APPROVED DISPOSAL SITE.

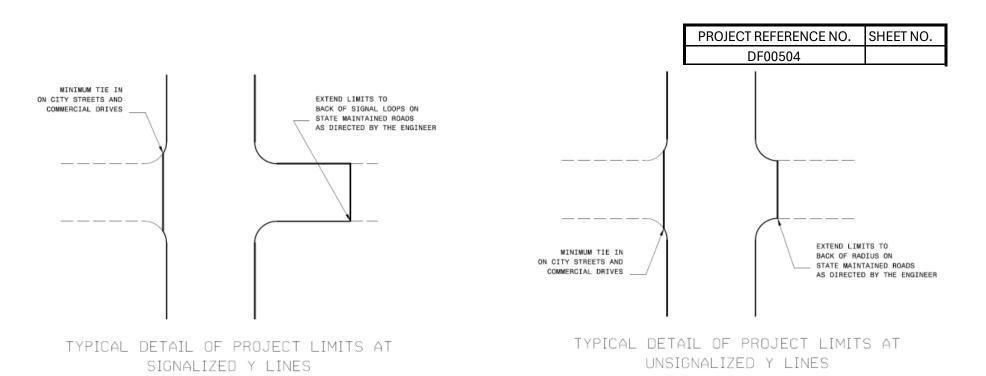
MATERIAL WILL NOT BE ALLOWED.





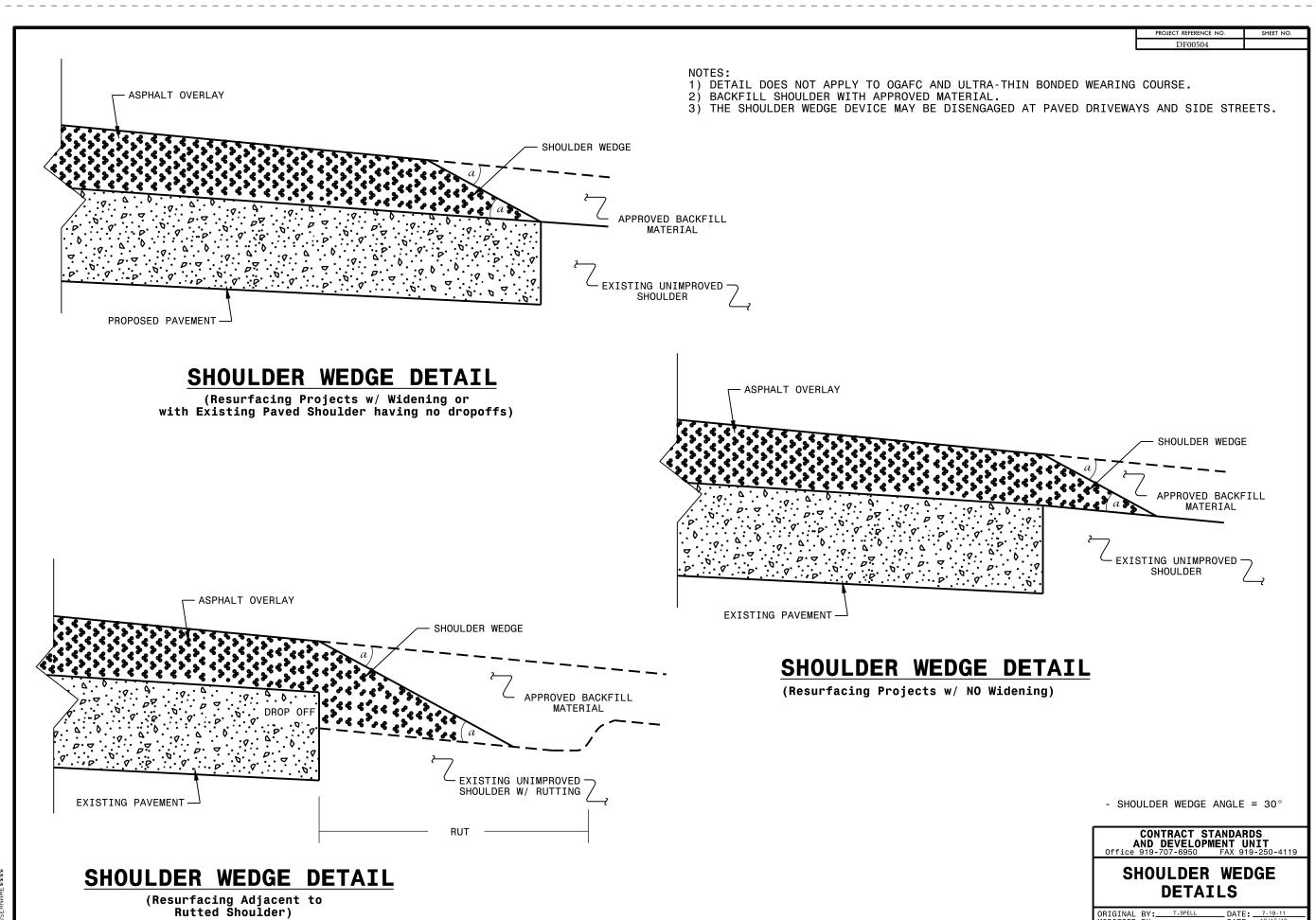






	ADDITION	AL INTERSECTIONS (NON-TYPICAL)											
	Extend paving limits to back of radius or loop on the following intersections												
Map#	Street Name	Comments	Total	Unit									
2	SR 1116	61 FT FROM EP of L-line (PAVE ONLY)	286	SY									
3	SR 1936	73 FT from EP of L-line (PAVE ONLY)	354	SY									
3	SR 1934 RT	51 FT from EP of L-line (PAVE ONLY)	276	SY									
3	SR 1934 LT	95 FT from EP of L-line (PAVE ONLY)	540	SY									
3	SR 1938	73 FT from EP of L-line (PAVE ONLY)	346	SY									
3	SR 1970	42 FT from EP of L-line (PAVE ONLY)	142	SY									
3	SR 1939	102 FT from EP of L-line (PAVE ONLY)	495	SY									
3	SR 1935	63 FT from EP of L-line (PAVE ONLY)	200	SY									
3	SR 1934	50 FT from EP of L-line (PAVE ONLY)	256	SY									

NOTE: Quantities are for estimate purpose only. <u>ACTUAL FIELD QUANTITY MAY VARY</u>



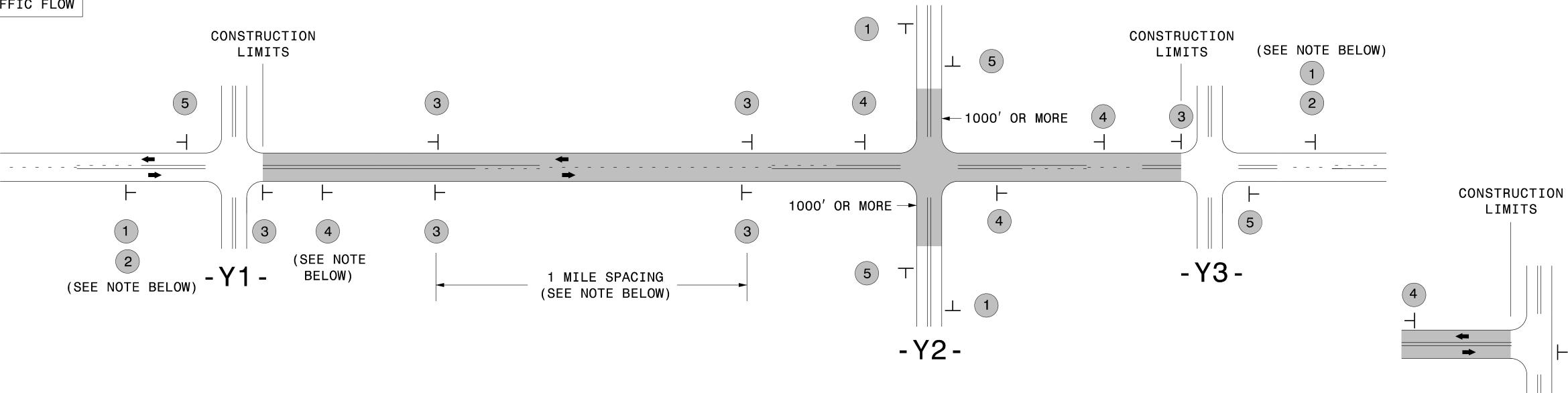
ORIGINAL BY: T.SPELL MODIFIED BY:

PROJ. REFERENCE NO. DF00504

### SIGNING FOR RESURFACING PROJECTS



← DIRECTION OF TRAFFIC FLOW

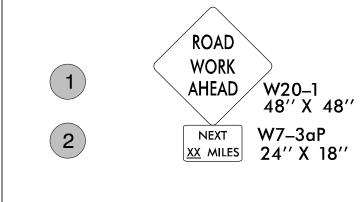


## MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING

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

SO

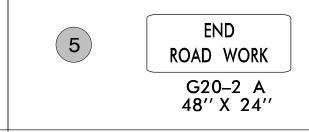


PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.

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.



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

1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE

FOLLOWING -Y- LINE CONDITIONS:

- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

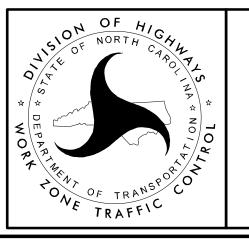
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



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

PROJECT REFERENCE NO.	SHEET NO.
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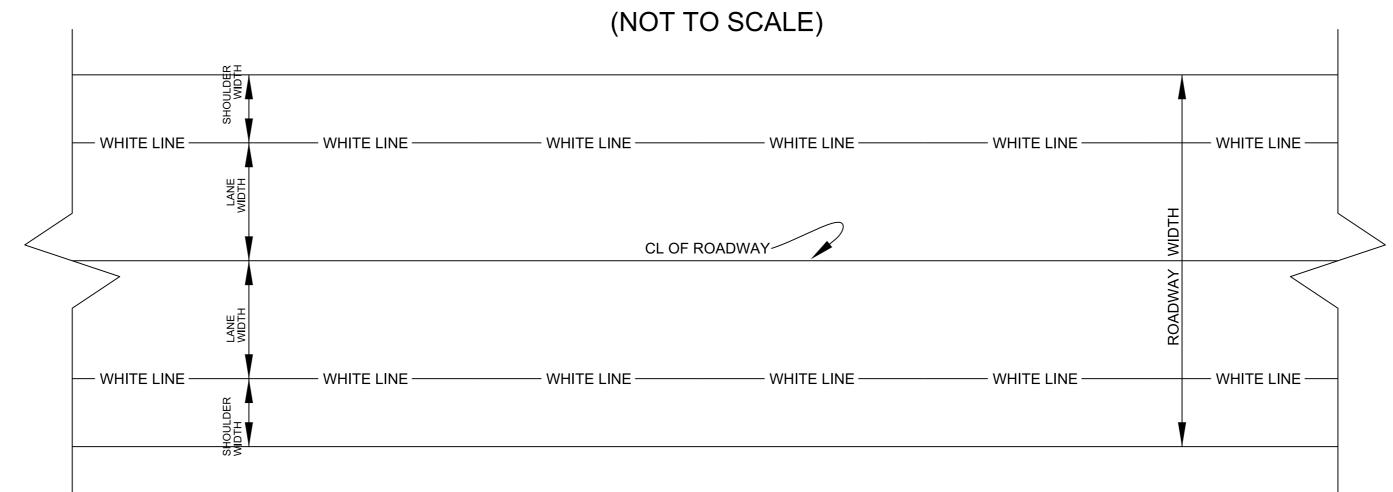
### **GUIDELINES FOR LANE WIDTHS ON RESURFACING PROJECTS**

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'								
* May vary due to pavement width										

TWO LANE - TWO WAY ROADWAY  MPH OR LESS											
ROADWAY WIDTH	LANE 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 pavement width											

### SCHEMATIC OF ROADWAY



PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.06.11.20241.1		

#### SUMMARY OF QUANTITIES

											1220000000-E	1245000000-E	1260000000-E	1	297000000	)-E	1330000000-E	1491000000-E	1503000000-E	1519000000-E	1520000000-E	1575000000-E	1704000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES LANE	LENGTH	WIDTH	BEGIN	END	INCIDENTAL	SHOULDER	AGGREGATE	11/2"	2 1/2"	0.75"	INCIDENTAL	BASE COURSE,	INTERMEDIATE	SURFACE	LEVELING	ASPHALT	PATCHING
						TYPE			MP	MP	STONE BASE	RECONSTRUCTION	SHOULDER	MILLING	MILLING	MILLING	MILLING	B25.0C	COURSE,	COURSE, S9.5B	COURSE, S9.5B	BINDER FOR	EXISTING
													BORROW						I19.0C			PLANT MIX	PAVEMENT
																							1
							MI	FT			TONS	SMI	TON	SY	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS
2025CPT.06.11.20241.1	Columbus	1	SR-1112 / BIG CYPRESS RD	FROM SR 1108 TO NC 905	1	2	1.63	20	0	1.63	10	0.16	25	19,130			425	43		1,740		116	10
	TOTAL FO	R MAP NO	0.1				1.63				10	0.16	25	19,130			425	43		1,740		116	10
2025CPT.06.11.20241.1	Columbus	2	SR-1115 / WALTER WARD RD	FROM SR 1113 TO NC 905	2	2	2.1	21	0	2.1	10	4.20	630		1,234			242	176	2,398	36	178	
	TOTAL FOR MAP NO. 2						2.1				10	4.20	630		1,234			242	176	2,398	36	178	
2025CPT.06.11.20241.1	Columbus	3	SR-1943 / REAVES FERRY RD	FROM NC 905 TO DEAD END	2	2	4.38	20	0	4.38	10	8.76	1,314		43			289	7	4,858		329	
	TOTAL FO	R MAP NO	0.3				4.38				10	8.76	1,314		43			289	7	4,858		329	
2025CPT.06.11.20241.1	Columbus	4	SR-1104 / MARLOWE RD	FROM SR 1108 TO SC LINE	3	2	1.63	20	0	1.63	20	0.70	105			19,654	335	202		1,821		127	
	TOTAL FO	R MAP NO	0.4				1.63				20	0.70	105			19,654	335	202		1,821		127	
TOTAL FO	D DDOLNO	202ECDT	06 11 20241 1				9.74				50	13.82	2,074	19,130	1,277	19,654	760	776	183	10,817	36	750	10
IOIALFO	TOTAL FOR PROJ NO. 2025CPT.06.11.20241.1														40,061								
	CDAN	ID TOTAL					9.74				50	13.82	2,074	19,130	1,277	19,654	760	776	183	10,817	36	750	10
	GRAI	IDIOIAL													40,061								

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.06.11.20241.1		

#### THERMOPLASTIC AND PAINT QUANTITIES

												4413000000-E	4457000000-N	468500	0000-E	4900000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE	LENGTH	WIDTH	<b>BEGIN MP</b>	END MP	WORK ZONE	TEMPORARY	4" X 90 M	4" X 90 M	YELLOW &
							TYPE					ADVANCE/GENERAL	TRAFFIC	YELLOW	WHITE	YELLOW
												WARNING SIGNING	CONTROL	THERMO	THERMO	MARKERS
								MI	FT			SF	LS	LF	LF	EA
2025CPT.06.11.20241.1	Columbus	1	SR-1112 / BIG CYPRESS RD	FROM SR 1108 TO NC 905	1	2		1.63	20	0	1.63	128	0.20	5,336	17,213	110
	TOTAL FO	R MAP N	0.1					1.63				128	0.20	5,336	17,213	110
2025CPT.06.11.20241.1	Columbus	2	SR-1115 / WALTER WARD RD	FROM SR 1113 TO NC 905	2	2		2.1	21	0	2.1	176	0.23	13,984	22,321	142
	TOTAL FO	R MAP N	0.2					2.1				176	0.23	13,984	22,321	142
2025CPT.06.11.20241.1	Columbus	3	SR-1943 / REAVES FERRY RD	FROM NC 905 TO DEAD END	2	2		4.38	20	0	4.38	182	0.40	27,651	47,493	306
	TOTAL FO	R MAP N	0.3					4.38				182	0.40	27,651	47,493	306
2025CPT.06.11.20241.1	Columbus	4	SR-1104 / MARLOWE RD	FROM SR 1108 TO SC LINE	3	2		1.63	20	0	1.63	96	0.17	10,850	17,690	115
	TOTAL FO	R MAP N	0.4					1.63				96	0.170	10,850	17,690	115
TOTAL FOL	D DDOLNO	202ECDT	. 06 11 20241 1					9.74				582	1.000	57,821	104,717	673
TOTAL FOR	TOTAL FOR PROJ NO. 2025CPT.06.11.20241.1													162,538		
	,						,			,						
	GRAND TOTAL			_				9.74				582	1.000	57,821	104,717	673
	GRAN	ID IOIAL												162	,538	