# STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION 6

## **PLANS**

Letting Date: March 5, 2025

## REVISED FEBRUARY 26, 2025

**CONTRACT ID: DF00502** 

**TIP NO.: HS-2406HA** 

FEDERAL AID NO.: HSIP-5097818

WBS ELEMENT NO.: 50978.3.19 & 2025CPT.06.13.10091.1

**ROUTE NO.:** NC 87

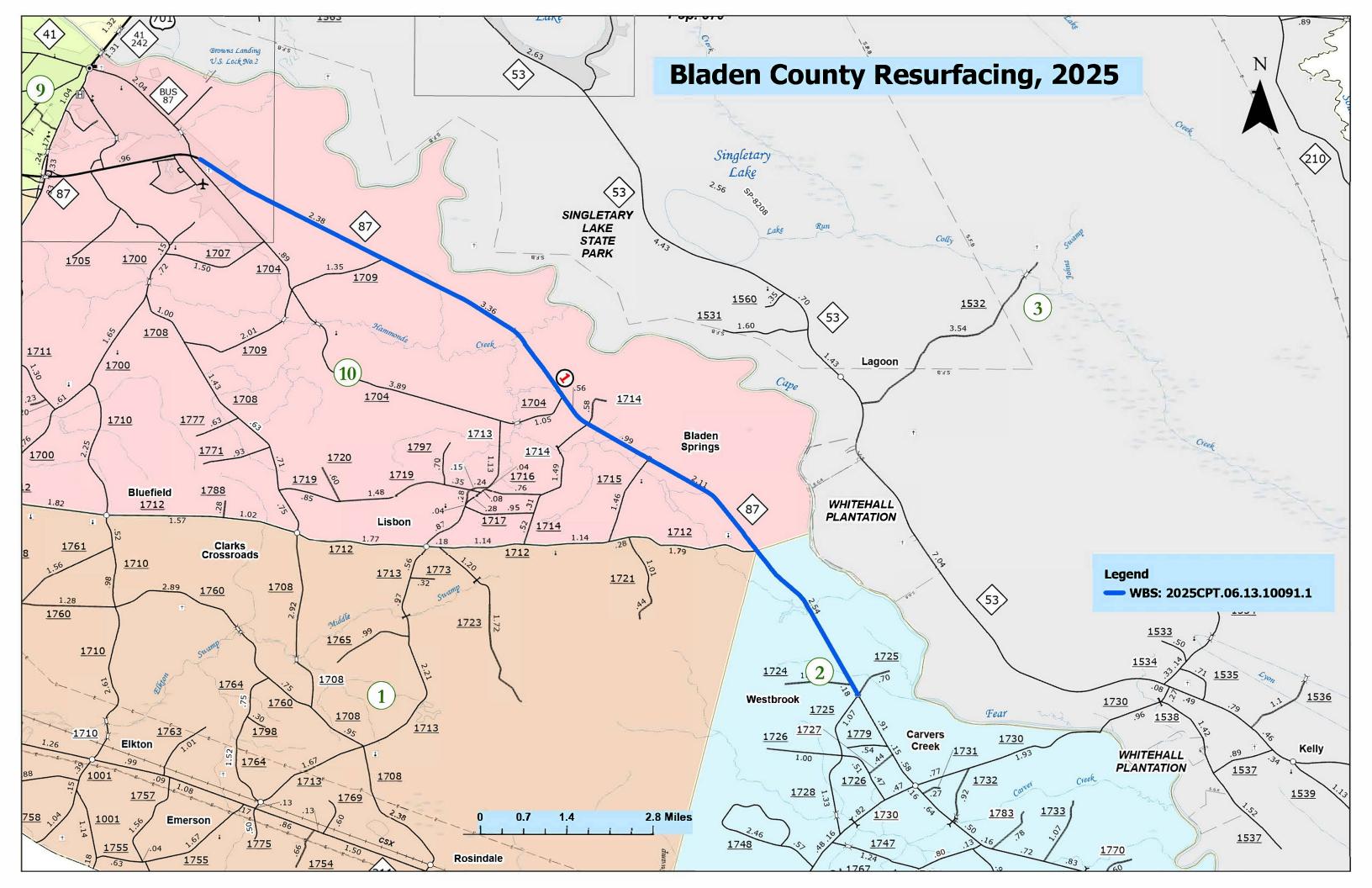
**LOCATION:** FROM SR 1725 to DIVIDED HIGHWAY (MP 10.43 to MP 23.00)

**COUNTY: BLADEN** 

**LENGTH OF PROJECT: 12.57 MILES** 

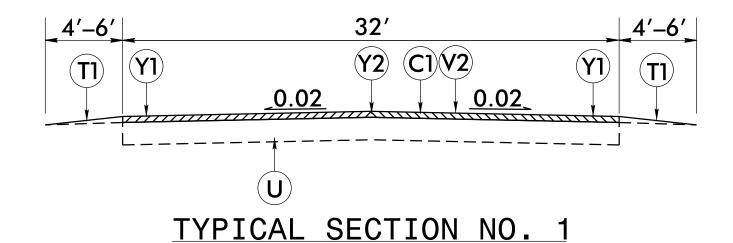
TYPE OF WORK: RESURFACING, MILLING, SINUSOIDAL MILLED RUMBLE STRIPES & STRIPS,

& PAVEMENT MARKINGS



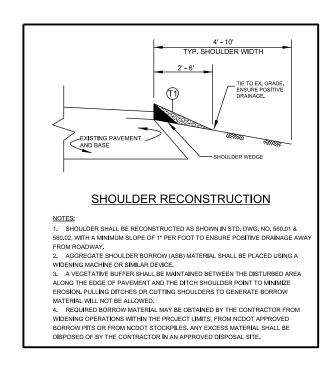
PROJECT REFERENCE NO.	SHEET NO.
DEODEOG	

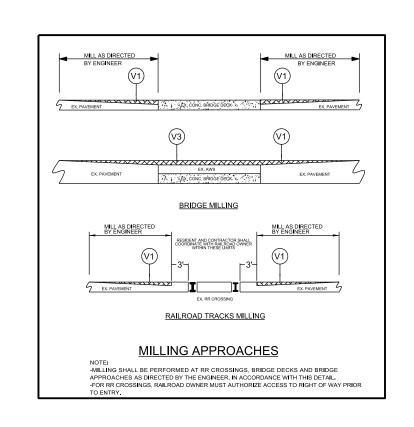
	PAVEMENT SCHEDULE
C1	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT
V1	0" - 1½" MILLING
V2	0" - 3½" MILLING
V3	1½" MILLING
Y1	SINUSOIDAL MILLED RUMBLE STRIPS
Y2	SINUSOIDAL MILLED RUMBLE STRIPES

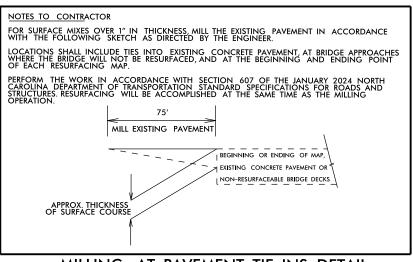


-MATERIAL TRANSFER VEHICLE SHALL BE USED

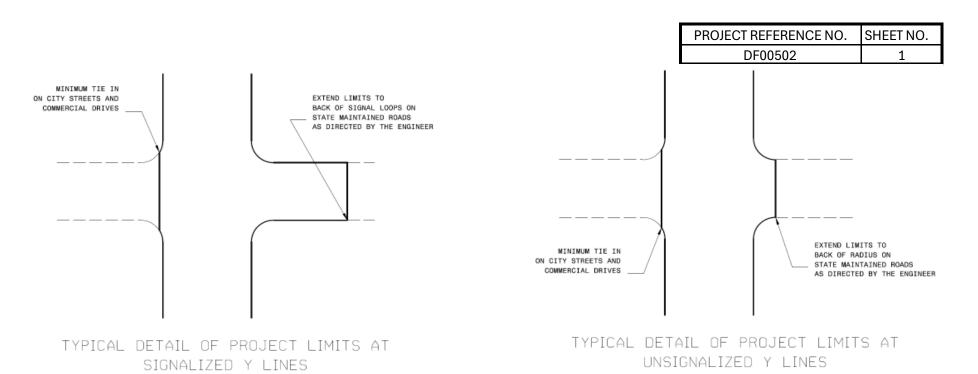
-USE LEVELING COURSE (S9.5C)IN PAVED SHOULDER
AS DIRECTED BY ENGINEER





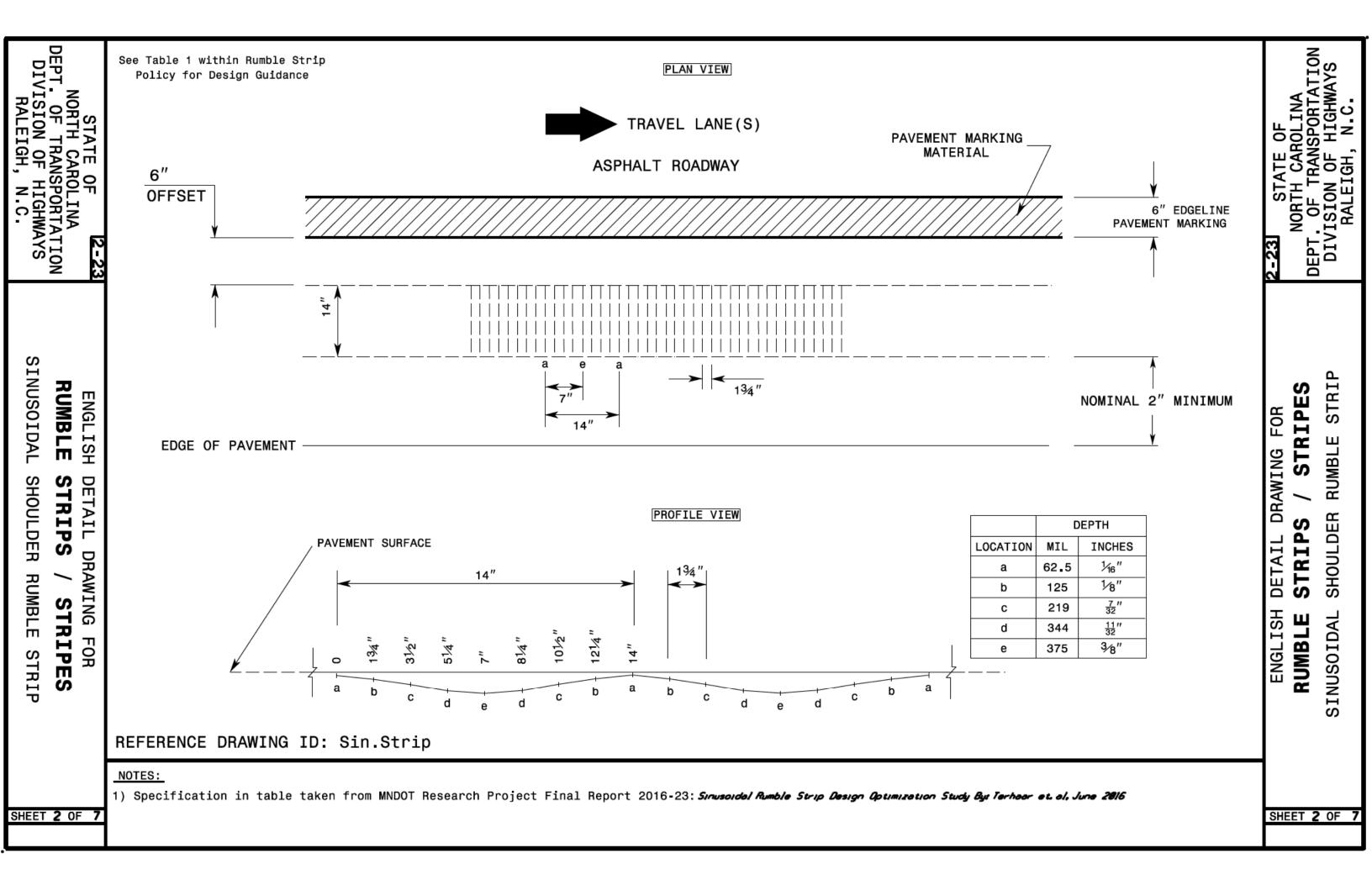


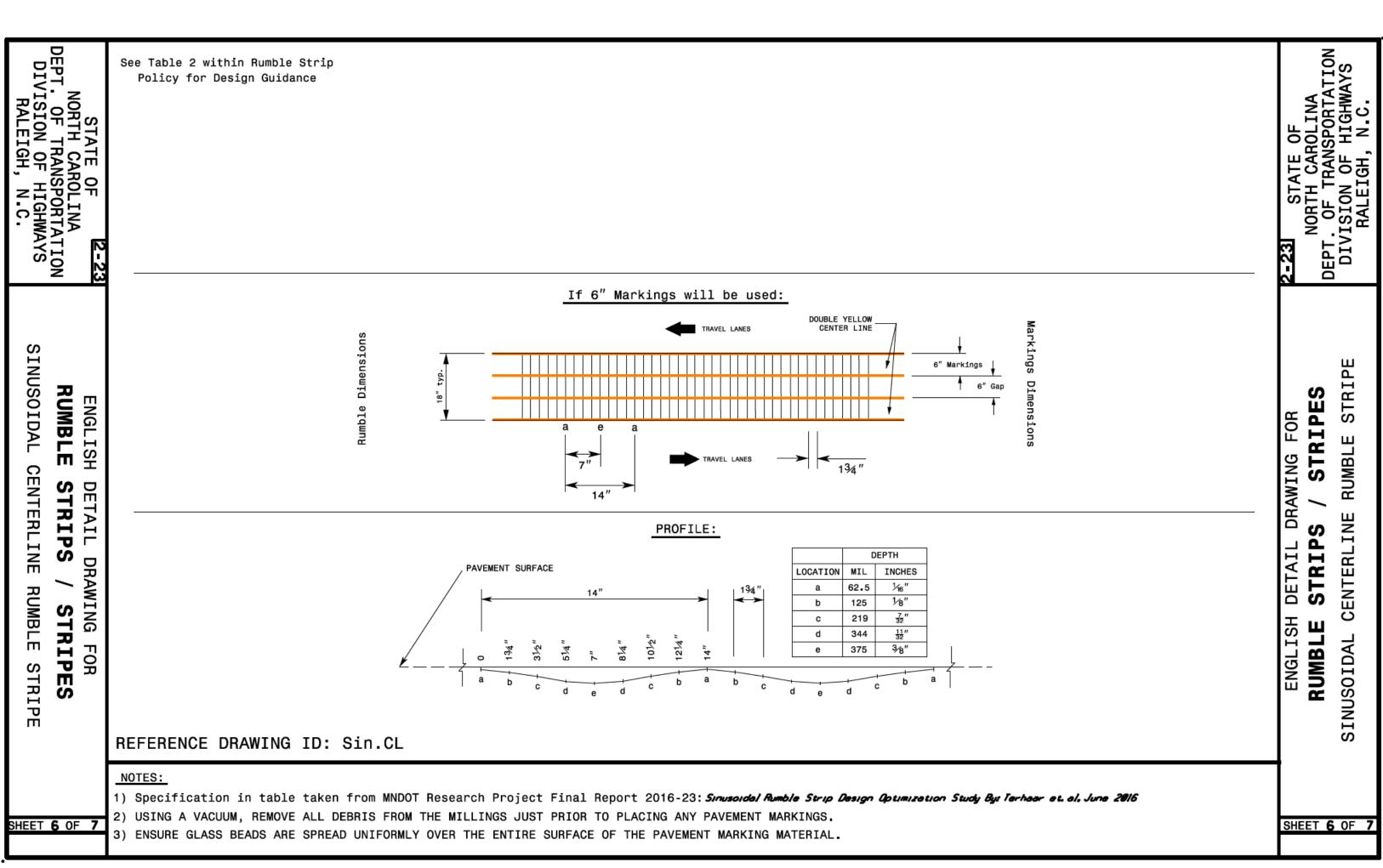
MILLING AT PAVEMENT TIE-INS DETAIL



	ADDITIONA	L INTERSECTIONS (NON-TYPICAL)													
	Extend paving limits to back of radius or loop on the following intersections														
Map #	Street Name	Comments	Total	Unit											
1	SR 1709	126 FT FROM EP of L-line (PAVE/MILL)	732	SY											
1	SR 1704	130 FT from EP of L-line (PAVE/MILL)	825	SY											
1	SR 1714 AP	68 FT from EP of L-line (PAVE/MILL)	354	SY											
1	SR 1714 MUNROE	30 FT from EP of L-line (PAVE/MILL)	136	SY											
1	SR 1715	110 FT from EP of L-line (PAVE/MILL)	738	SY											
1	SR 1712	104 FT from EP of L-line (PAVE/MILL)	839	SY											
1	SR 1724	50 FT from EP of L-line (PAVE/MILL)	330	SY											
1	DEWITT STREET	5 FT FROM EP of L-Line (PAVE ONLY)	27	SY											
1	WALKER STREET	23 FT from EP of L-line (PAVE ONLY)	86	SY											

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

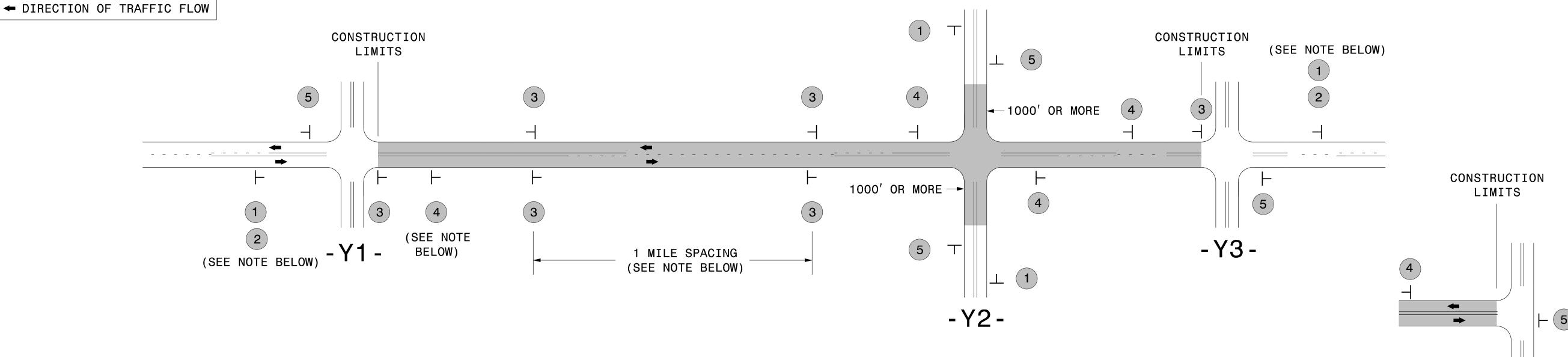




PROJ. REFERENCE NO. SHEET NO.
DF00502

## SIGNING FOR RESURFACING PROJECTS



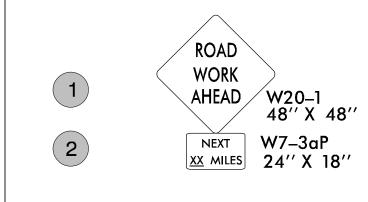


# MAINLINE (-L-) SIGNING

## -Y- LINE SIGNING

# IGNING NOTES AND EMENT PER DIRECTION

SO



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

#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH.
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 CONST SP 13106 48" X 48"
- 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
- 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.

ALONG -L- LINE.

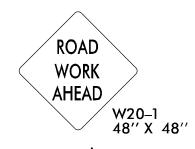
MAPS LESS THAN 2 MILES

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

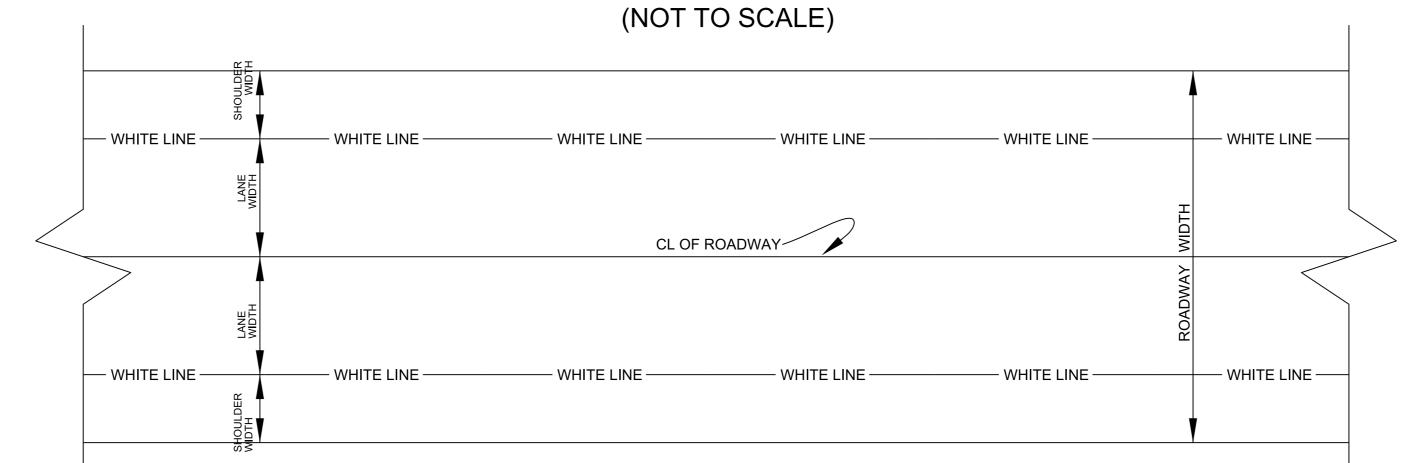
## GUIDELINES FOR LANE WIDTHS ON RESURFACING PROJECTS

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	ROADWAY WIDTH LANE WIDTH SHOULDER WIDTI													
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 pavemen	<del>-</del>	4.												

TWO LANE - TWO	WAY ROADWAY	Y 50											
ROADWAY WIDTH LANE WIDTH SHOULDER WID													
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.
PT.06.13.10091.1, 5097		

## SUMMARY OF QUANTITIES

								1220000000-E	1231000000-E	1245000000-E	1260000000-E	1308000000-E	1330000000-E	1523000000-E	1524000000-E	1575000000-E	1880000000-E	18810	00000-E	2738000000-E	6084000000-E		
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO LAN	ES LANE LEN	IGTH WID	TH BEGII	N END	INCIDENTAL	SHOULDER	SHOULDER	AGGREGATE	0" TO 3.5"	INCIDENTAL	SURFACE	LEVELING	ASPHALT	PAVE EXISTING			6" CONCRETE	SEED &
						TYPE		MP	MP	STONE BASE	BORROW	RECONSTRUCTI	SHOULDER	MILLING	MILLING	COURSE, S9.5C	COURSE, S9.5C	BINDER FOR	ASPHALT	SINUSOID	SINUSOIDA	DRIVEWAY	MULCHING
												ON	BORROW				·	PLANT MIX	DRIVEWAYS	AL RUMBLE STRIPES	L RUMBLE STRIPS		
							MI FT			TONS	CY	SMI	TON	SY	SY	TONS	TONS	TONS	TON	LF	LF	SY	AC
				FROM SR 1725 TO BEGIN DIVIDED 4																			
2025CPT.06.13.1009	1.1 Bladen	1	NC-87	LANE	1 2	2WU 12	2.57 32	10.43	3 23	40	24	25.14	6,285	237,202	3,954	22,253	950	1,371	50			313	0.10
TOTAL FOR PROJ I	IO. 2025CPT.	06.13.10	091.1			12	2.57			40	24	25.14	6,285	237,202	3,954	22,253	950	1,371	50			313	0.10
				FROM SR 1725 TO BEGIN DIVIDED 4																			
50978.3.19	Bladen	1	NC-87	LANE	1 2	12	2.57 32	10.43	3 23											66,370	132,739		
TOTAL FOR	PROJ NO. 509	78.3.19				12	2.57													66,370	132,739		
CI	AND TOTAL		_							·													
l G	AND IOIAL					25	5.14			40	24	25.14	6,285	237,202	3,954	22,253	950	1.371	50	66,370	132,739	313	0.10

	PROJECT NO.	SHEET NO.	TOTAL NO.
2025	CPT.06.13.10091.1, 50978.3.19		

### THERMOPLASTIC AND PAINT QUANTITIES

					4413000000-E	4457000000-N	46880	00000-E	4700000000-Е	4709000000-E	4720000000-E	472500	00000-E	481000	0000-E	4825000000-E	4835000000-E	4840000000-N	484500	0000-N	490000	00000-N								
PROJEC	CTNO	COUNTY	MAP NO	O ROUTE	DESCRIPTION	TYP NO	LANES L	ANE LE	NGTH	WIDTH	BEGIN MP	END MP	WORK ZONE	TEMPORARY	6" X 90 M	6" X 90 M	12" X 90 M	24" X 90 M	THERMO MSG	THERMO RT	THERMO LT	4" YELLOW	4" WHITE	12" YELLOW	PAINT	PAINT MSG	PAINT RT	PAINT LT	YELLOW &	CRYSTAL &
							T	YPE					ADVANCE/GE	TRAFFIC	YELLOW	WHITE	YELLOW	WHITE	SCHOOL 90 M	ARROW 90 M	ARROW 90	PAINT	PAINT	PAINT	PAVEMENT	SCHOOL	ARROW	ARROW	YELLOW	RED MARKERS
													NERAL	CONTROL	THERMO	THERMO	THERMO	THERMO			M				MARKING				MARKERS	
													WARNING												LINES (24")					
													SIGNING																	
									MI	FT			SF	LS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	LF	EA	EA	EA	EA	EA
					FROM SR 1725 TO BEGIN DIVIDED 4																									
2025CPT.06.3	13.10091.1	Bladen	1	NC-87	LANE	1	2 2	WU 1	2.57	32	10.43	23	598	0.90								50,340	134,359	180	128	12	3	4		
TOTAL FO	R PROJ NO. 2	2025 CDT 0	C 12 10	001 1				1	2.57				598	0.90								50,340	134,359	180	128	12	3	4		
IOIALFO	K PROJ NO. 2	2025GP1.0	6.13.10	091.1														184	,699				7							
					FROM SR 1725 TO BEGIN DIVIDED 4																									
50978.	.3.19	Bladen	1	NC-87	LANE	1	2	1	2.57	32	10.43	23		0.10	50,340	134,359	180	128	12	3	4	50,340							840	42
TO1	TAL FOR DRO	31 NO E00	70 2 10					1	2.57					0.100	50,340	134,359	180	128	12	3	4	50,340							840	42
101	TOTAL FOR PROJ NO. 50978.3.19													184	1,699					7	50,	340						882		
	GDAN	ID TOTAL						2	5.14		•		598	1.000	50,340	134,359	180	128	12	3	4	100,680	134,359	180	128	12	3	4	840	42
	GRAN	IDIOIAL													184	,699					7	235,	,039					7	8	82