

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION 6

PLANS

Letting Date: September 17, 2025

CONTRACT ID: DF00531

TIP NO.: SS-6206BC

FEDERAL AID NO.: STATE FUNDED

WBS ELEMENT NO.: 2026CPT.06.05.10781.1 & 51767

ROUTE NO.: NC 211

LOCATION: FROM SR 1770 TO 0.77 MILES NORTHWEST OF SR 1505

COUNTY: ROBESON

LENGTH OF PROJECT: 6.95 MILES

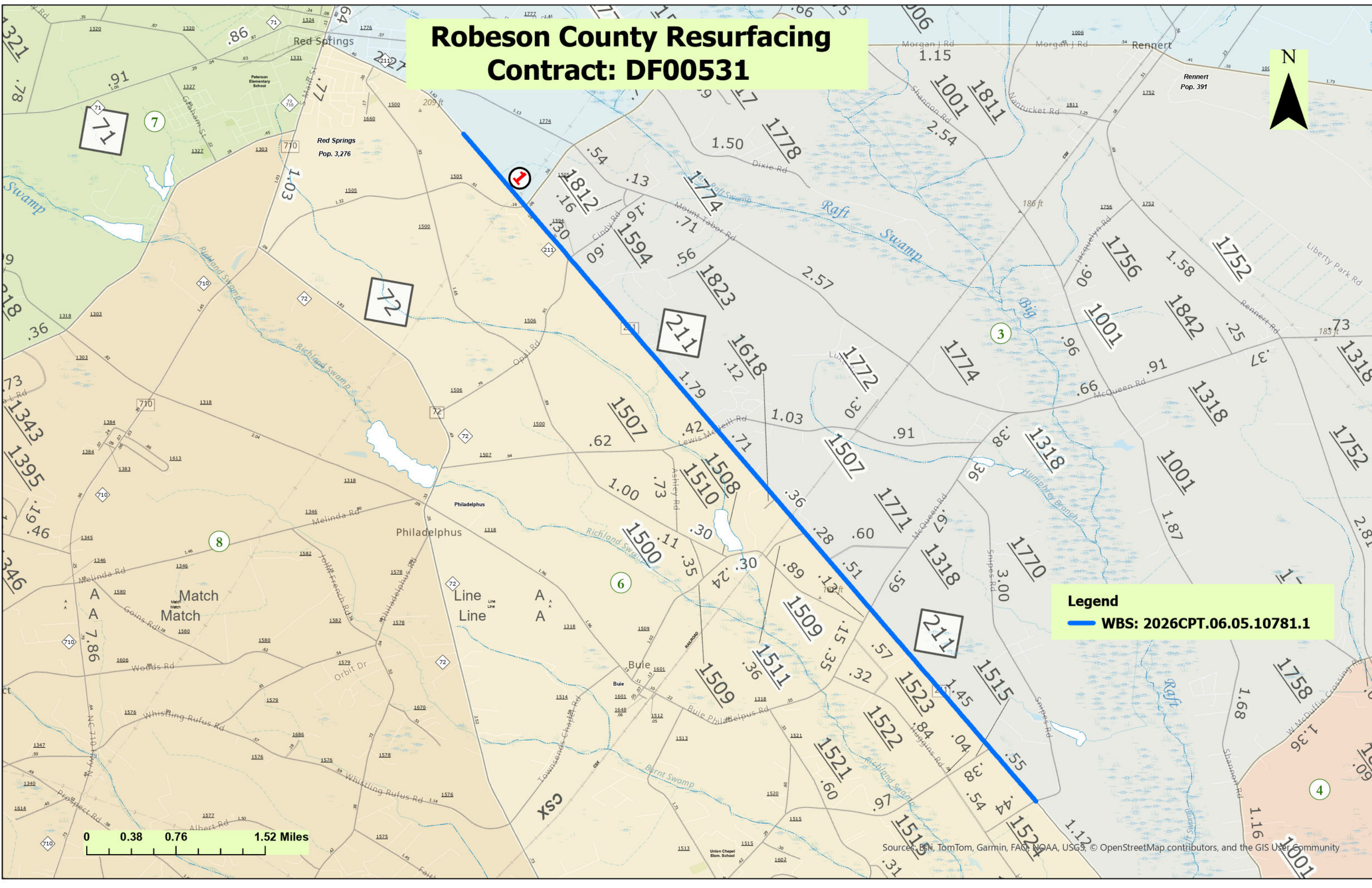
TYPE OF WORK: MILLING, RESURFACING, SINUSOIDAL MILLED RUMBLE STRIPES & PAVEMENT MARKINGS

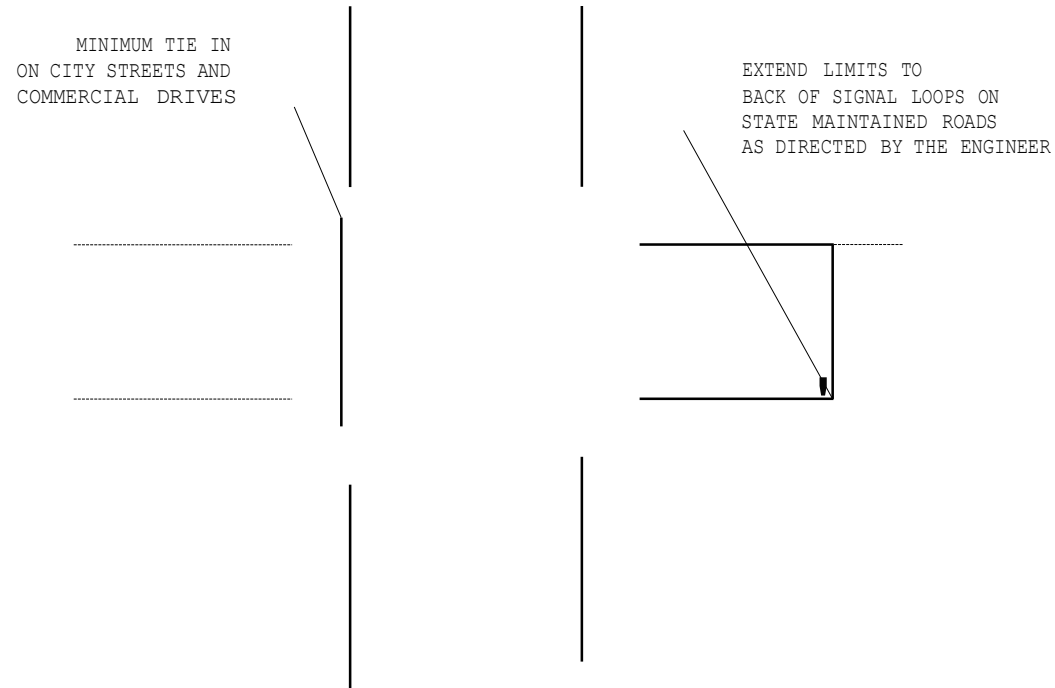
Robeson County Resurfacing Contract: DF00531



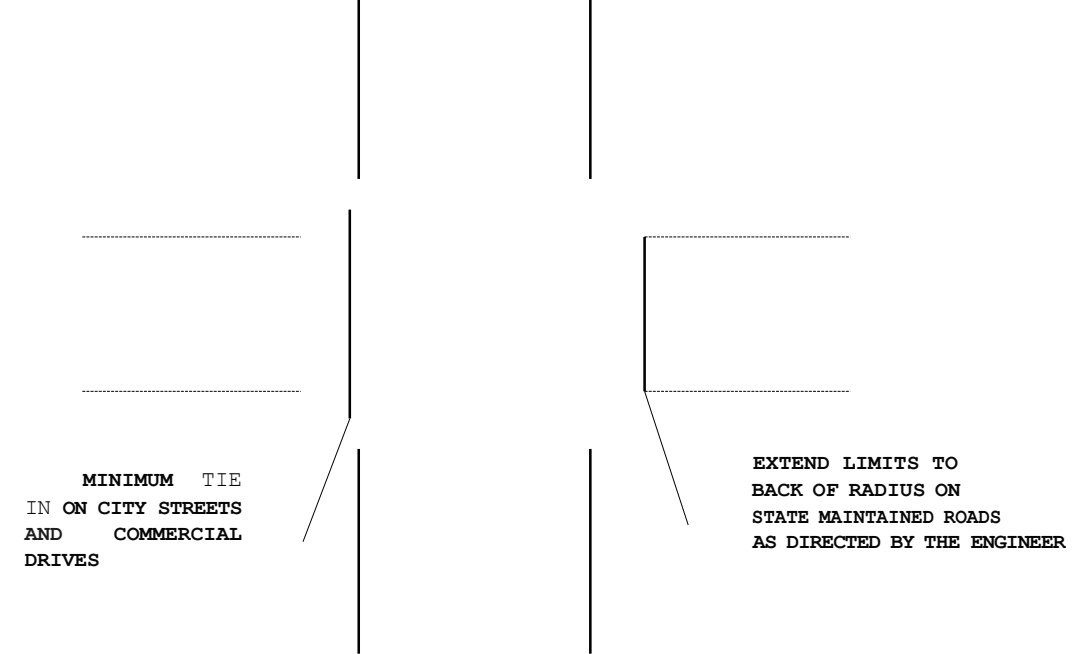
Legend
— WBS: 2026CPT.06.05.10781.1

0 0.38 0.76 1.52 Miles





TYPICAL DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES



TYPICAL DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

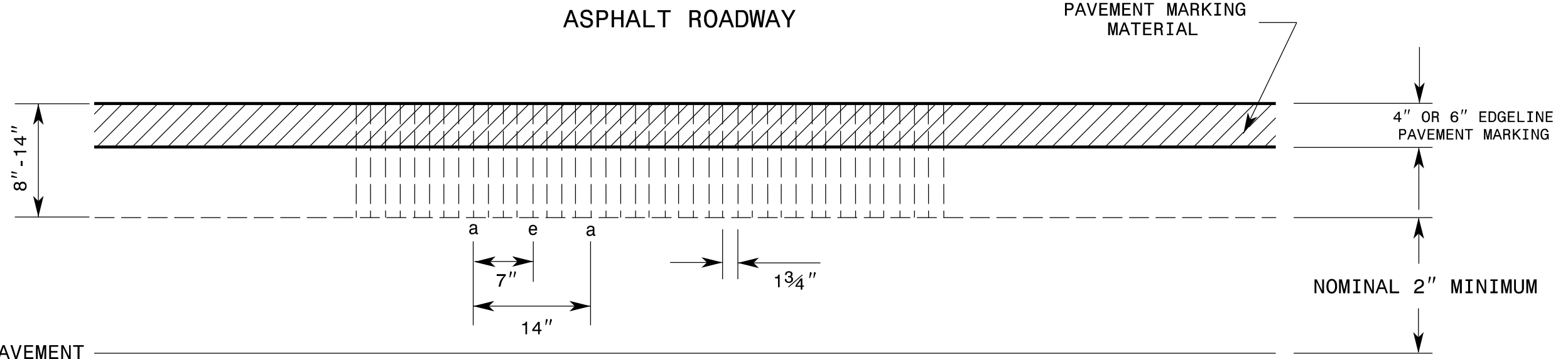
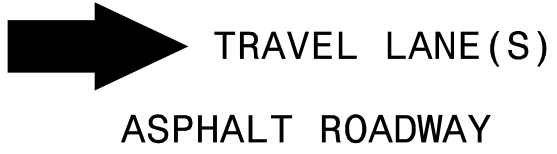
ADDITIONAL INTERSECTIONS (NON-TYPICAL)

Extend paving limits to back of radius
or loop on the following intersections:

MAP#	STREET NAME	COMMENTS
1	SR 1770 (Snipes Road) RT	50 FT from EP of L-Line = 206 SY
1	SR 1524 (Pine Meadow Road) LT	53 FT from EP of L-Line = 195 SY
1	SR 1515 (Union Chapel Road) LT	73 FT from EP of L-Line = 410 SY
1	SR 1318 (McQueen Road) RT	80 FT from EP of L-Line = 560 SY
1	SR 1318 (Buie Philadelphus Road) LT	93 FT from EP of L-Line = 533 SY
1	SR 1771 (Brown Road) RT	50 FT from EP of L-Line = 145 SY
1	SR 1511 (Ford Road) LT	70 FT from EP of L-Line = 396 SY
1	SR 1618 (Short Lane) LT	70 FT from EP of L-Line = 423 SY
1	SR 1507 (Lewis McNeill Road) RT	70 FT from EP of L-Line = 305 SY
1	SR 1507 (Lewis McNeill Road) LT	97 FT from EP of L-Line = 436 SY
1	SR 1506 (Opal Road) LT	85 FT from EP of L-Line = 323 SY
1	SR 1594 (Cindy Road) RT	60 FT from EP of L-Line = 265 SY
1	SR 1505 (Old Lowery Road) RT	105 FT from EP of L-Line = 731 SY
1	SR 1505 (Old Lowery Road) LT	92 FT from EP of L-Line = 498 SY

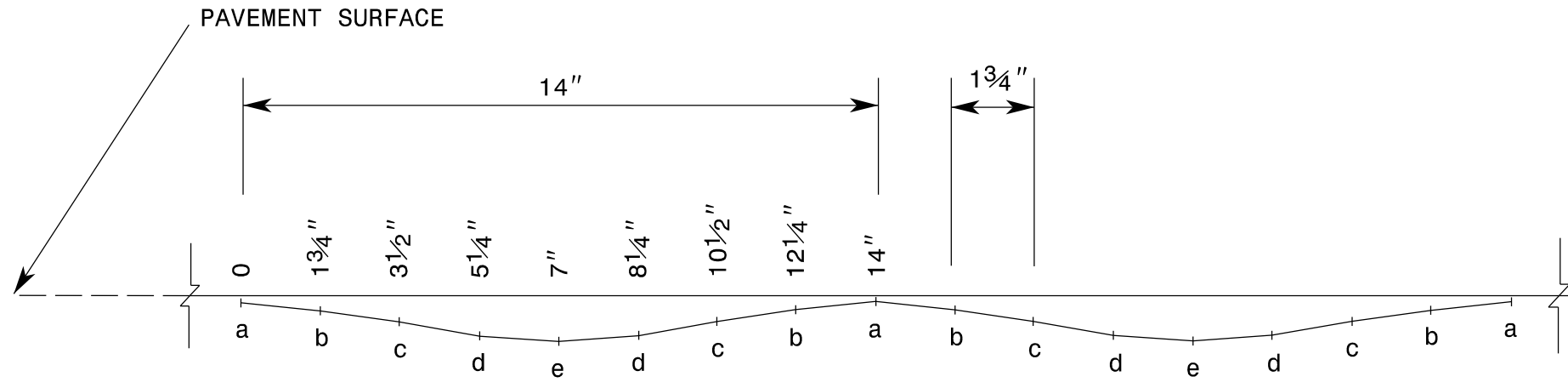
See Table 1 within Rumble Strip Policy for Design Guidance

PLAN VIEW



EDGE OF PAVEMENT

PROFILE VIEW



LOCATION	DEPTH	
	MIL	INCHES
a	62.5	1/16"
b	125	1/8"
c	219	7/32"
d	344	11/32"
e	375	3/8"

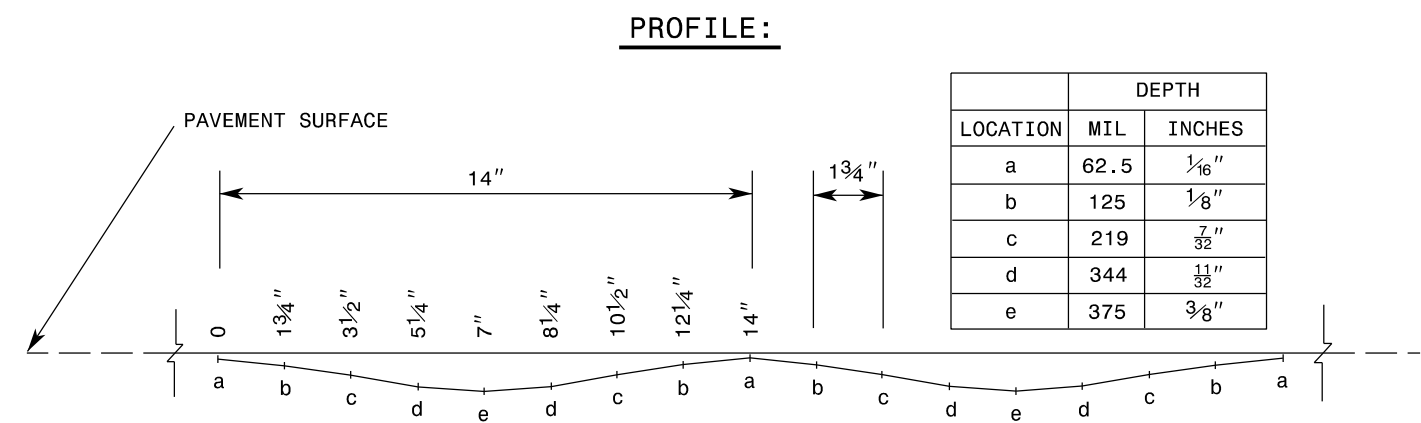
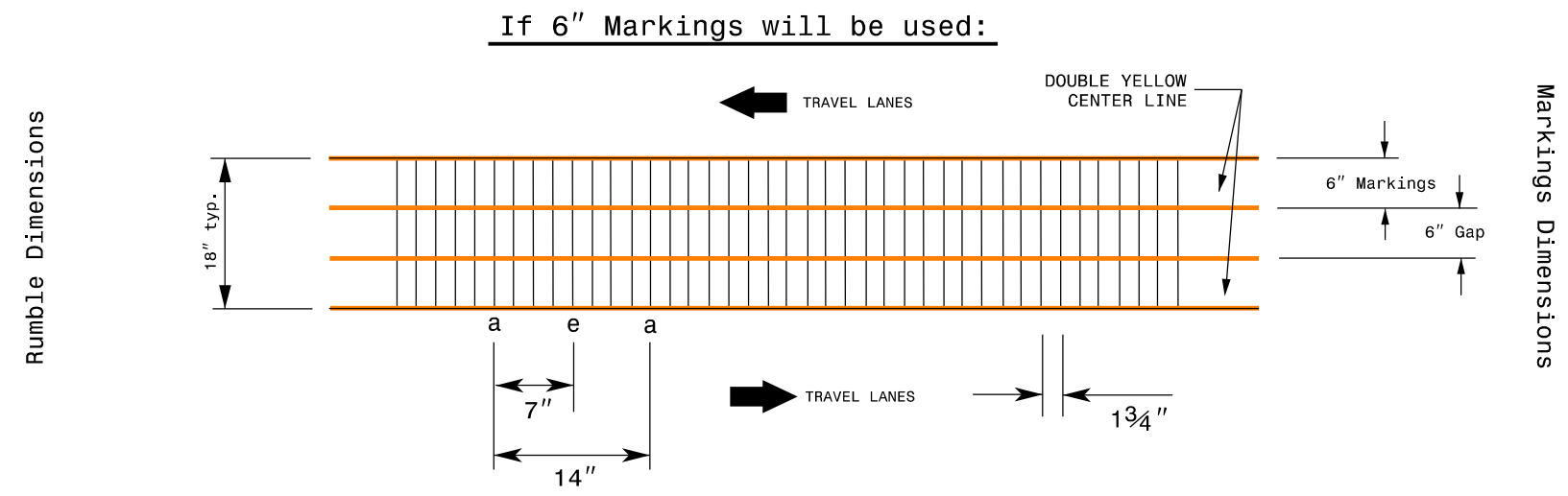
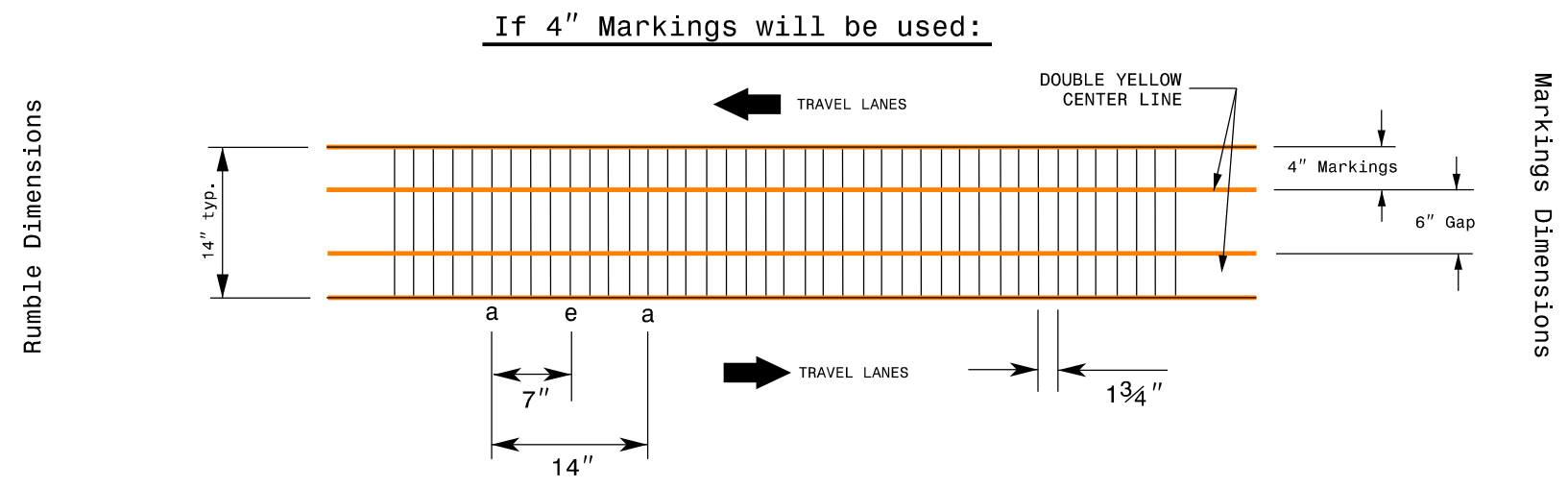
REFERENCE DRAWING ID: Sin.Stripe

DRAFT REFERENCE DRAWING: FEBRUARY 2023

NOTES:

- 1) Specification in table taken from MNDOT Research Project Final Report 2016-23: *Sinusoidal Rumble Strip Design Optimization Study By: Terhaar et. al, June 2016*
- 2) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
- 3) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.

See Table 2 within Rumble Strip Policy for Design Guidance



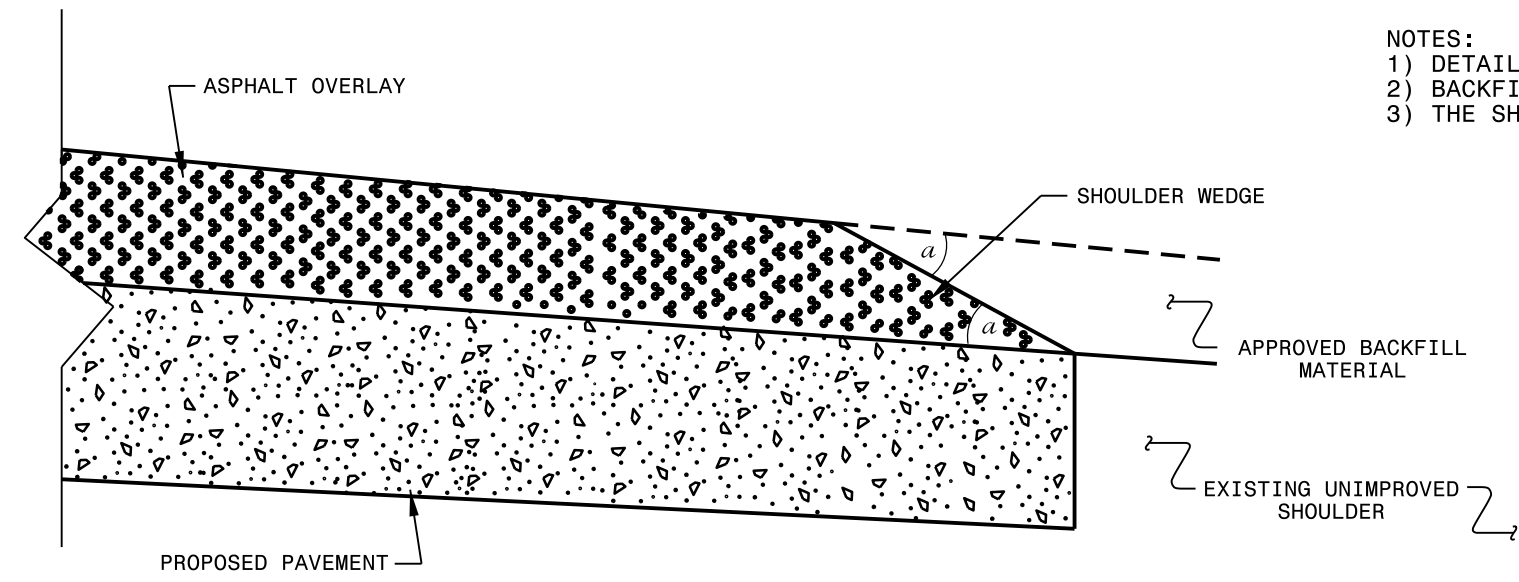
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DRAFT REFERENCE DRAWING: FEBRUARY 2023

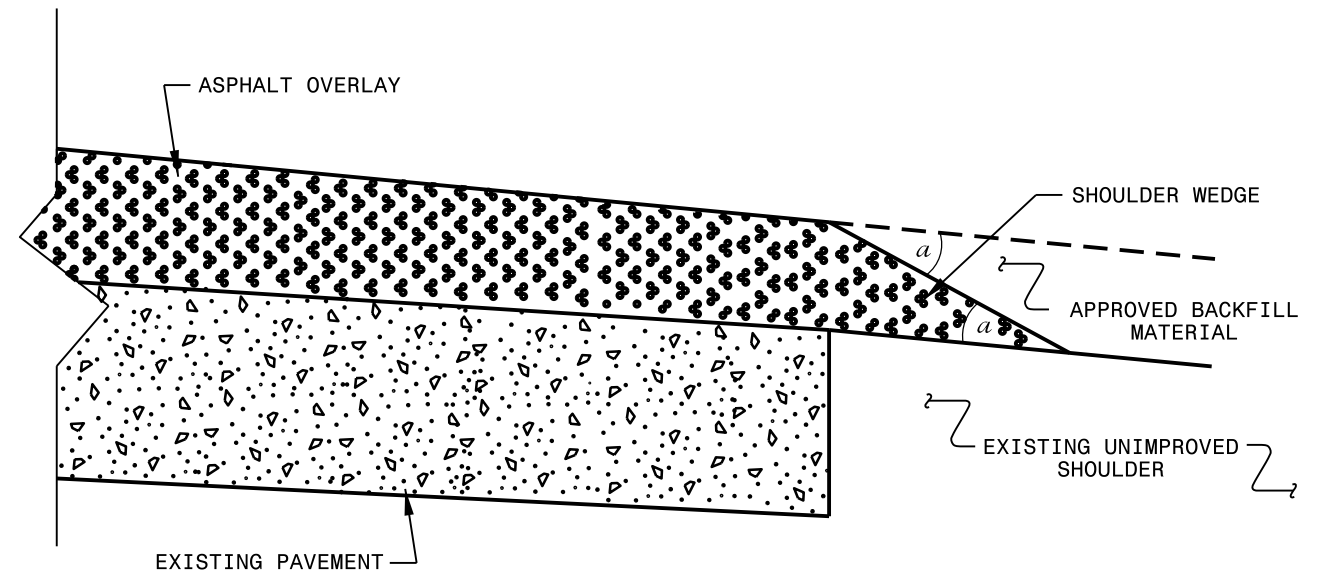
NOTES:

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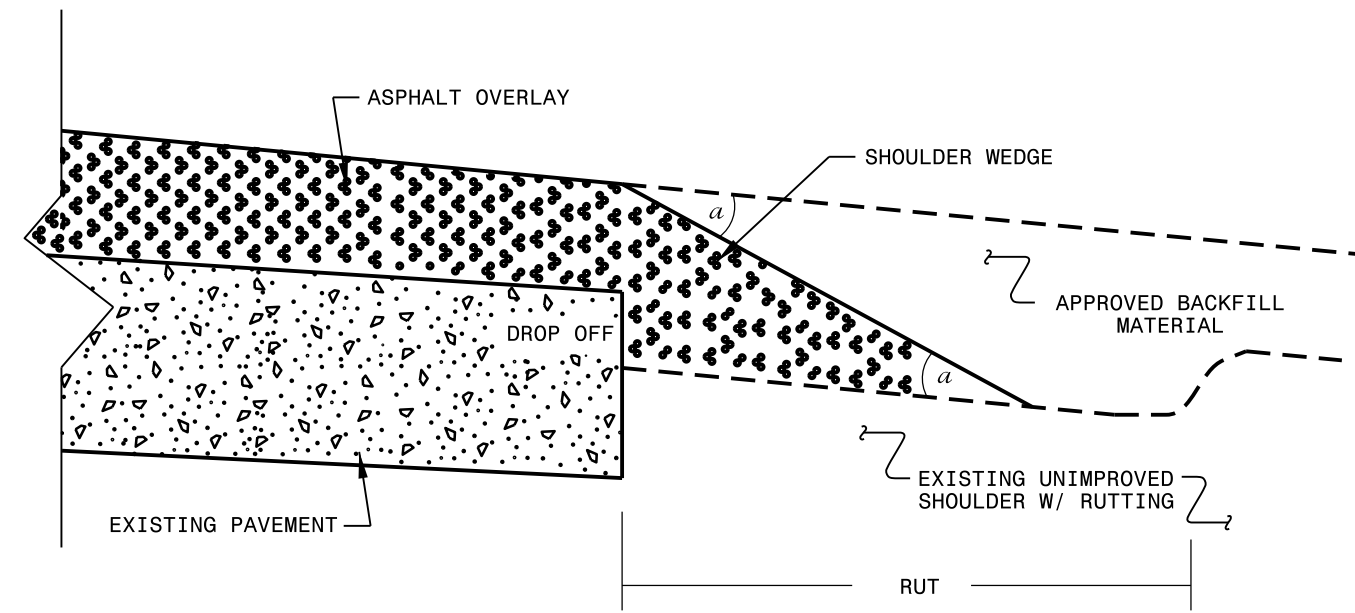
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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 DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

CONTRACT STANDARDS
 AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

**SHOULDER WEDGE
 DETAILS**

ORIGINAL BY: T.SPELL DATE: 7-19-11
 MODIFIED BY: DATE: 10/16/12
 CHECKED BY: DATE:
 FILE SPEC.: susr/details/stand/shoulderwedgedetail.dgn

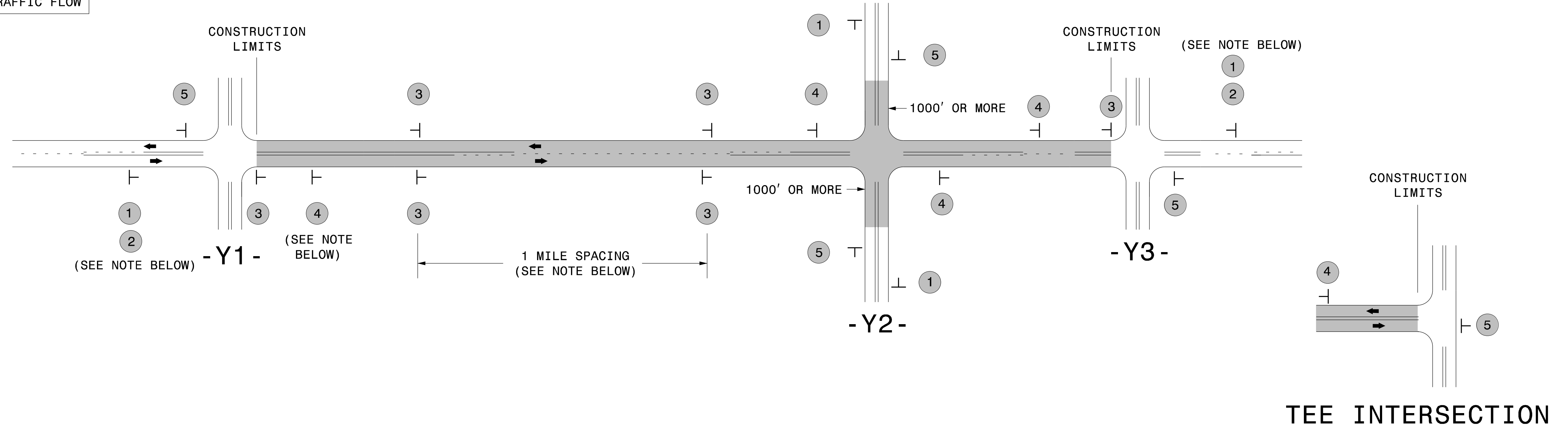
SYSTEMS DESIGN
 USER NAME

SIGNING FOR RESURFACING PROJECTS

LEGEND

┆ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

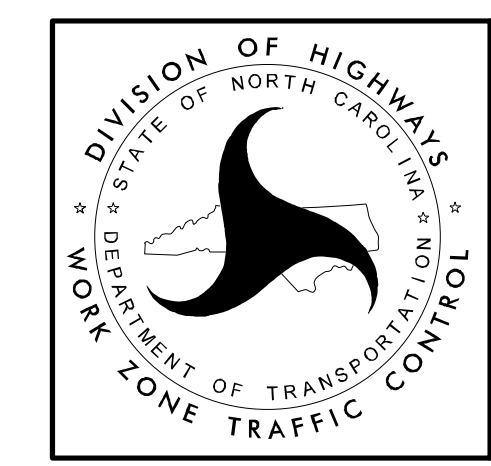
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1	 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.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>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.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> W20-1 48" X 48" </div> <div style="text-align: center;"> W20-7 A 48" X 48" </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 W7-3aP 24" X 18"	#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)	
	3	 SP 13107 48" X 48"	<ul style="list-style-type: none"> - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER. 	
	4	 SP 13106 48" X 48"	<ul style="list-style-type: none"> - 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. 	
	5	 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.



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

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'

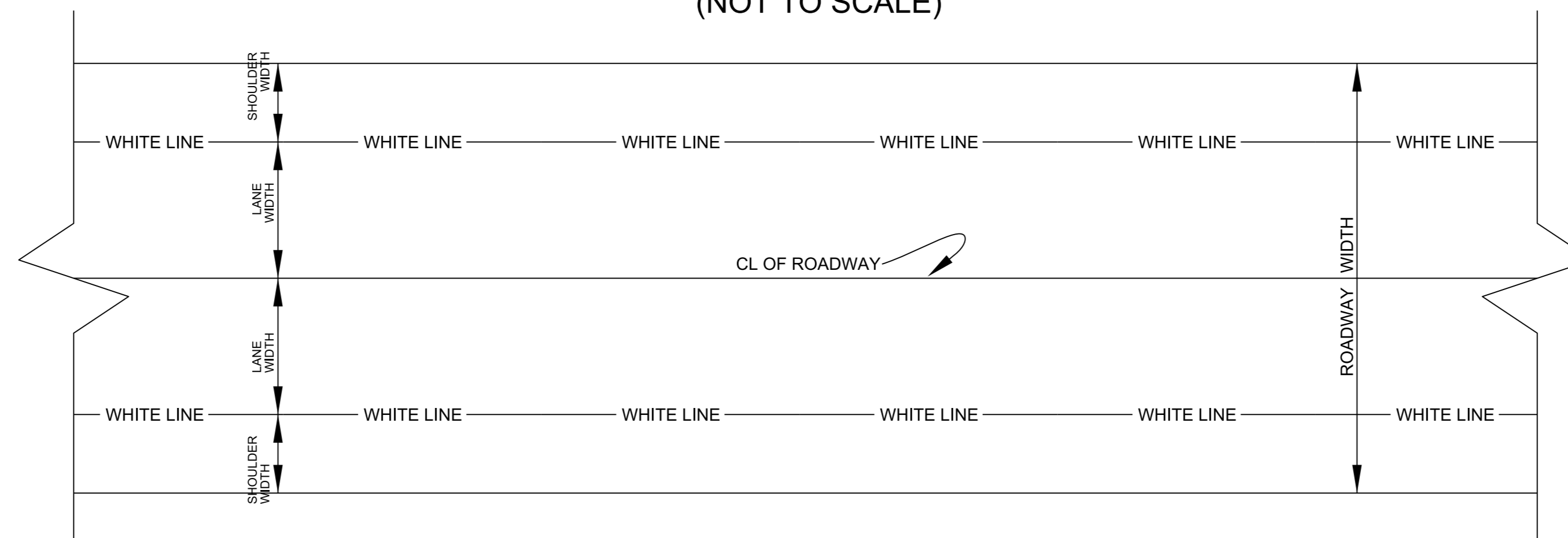
* May vary due to pavement width

TWO LANE - TWO WAY ROADWAY		50
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

(NOT TO SCALE)



PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.06.05.10781.1, 51767		

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	1220000000-E	1245000000-E	1260000000-E	1297000000-E		1330000000-E	1523000000-E	1575000000-E	1704000000-E	1881000000-E	2830000000-N	2845000000-N					
												INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	0.75" MILLING	1½" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	GENERIC PAVING ITEM - SINUSOIDAL RUMBLE STRIPES	ADJ. OF MANHOLES	ADJ. OF METER OR VALVE BOX					
								MI	FT			TONS	SMI	TON	SY	SY	SY	TONS	TONS	TONS	LF	EA	EA					
2026CPT.06.05.10781.1	Robeson	1	NC-211	FROM SR 1770 TO 0.77 MILES NORTHWEST OF SR 1505	1,2	2	2WU	6.95	27	18.24	25.19	105	13.24	2,141	106,762	5,749	6,110	9,852	592	5		4	4					
TOTAL FOR MAP NO. 1								6.95				105	13.24	2,141	106,762	5,749	6,110	9,852	592	5		4	4					
TOTAL FOR PROJ NO. 2026CPT.06.05.10781.1								6.95				105	13.24	2,141	106,762	5,749	6,110	9,852	592	5		4	4					
												112,511																
51767	Robeson	2	NC-211	FROM BEGIN RUMBLE STRIPES TO END RUMBLE STRIPES	1,2	2	2WU	6.95	27	18.24	25.19											106,725.00						
TOTAL FOR MAP NO. 2								6.95																106,725.00				
TOTAL FOR PROJ NO. 51767								6.95																	106,725.00			
GRAND TOTAL												13.9				105	13.24	2,141	106,762	5,749	6,110	9,852	592	5		106,725.00	4	4
												112,511																

PROJECT NO.	SHEET NO.	TOTAL NO.
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THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E	4457000000-N	4688000000-E		4700000000-E	4709000000-E	4725000000-E		4810000000-E		4825000000-E	4835000000-E	4845000000-N		4900000000-N							
												WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	6" X 90 M WHITE THERMO	6" X 90 M YELLOW THERMO	12" X 90 M YELLOW THERMO	24" X 90 M WHITE THERMO	THERMO LT ARROW 90 M	THERMO STR & RT ARROW 90 M	4" WHITE PAINT	4" YELLOW PAINT	12" YELLOW PAINT	24" WHITE PAINT	PAINT LT ARROW	PAINT STR & RT ARROW	YELLOW & YELLOW MARKERS	CRYSTAL & RED MARKERS						
								MI	FT			SF	LS	LF	LF	LF	LF	EA	EA	LF	LF	LF	LF	EA	EA	EA	EA						
2026CPT.06.05.10781.1	Robeson	1	NC-211	FROM SR 1770 TO 0.77 MILES NORTHWEST OF SR 1505	1,2	2	2WU	6.95	27	18.24	25.19	778	1.00							73,947	54,120	156	148	2	2								
TOTAL FOR MAP NO. 1								6.95				778	1.000							73,947	54,120	156	148	2	2								
TOTAL FOR PROJ NO. 2026CPT.06.05.10781.1								6.95				778	1.000							73,947	54,120	156	148	2	2								
																		128,067						4									
51767	Robeson	2	NC-211	FROM BEGIN RUMBLE STRIPES TO END RUMBLE STRIPES	1,2	2	2WU	6.95	27	18.24	25.19			73,947	54,120	156	148	2	2								503	41					
TOTAL FOR MAP NO. 2								6.95						73,947	54,120	156	148	2	2									503	41				
TOTAL FOR PROJ NO. 51767								6.95						73,947	54,120	156	148	2	2									503	41				
																		128,067						4									
GRAND TOTAL								13.9				778	1.000	73,947	54,120	156	148	2	2	73,947	54,120	156	148	2	2	503	41						
																		128,067						4		128,067				4		544	