STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION 6

PLANS

Letting Date: September 15, 2021

CONTRACT ID: DF00288

TIP NO.: -----

FEDERAL AID NO.: STATE FUNDED

WBS ELEMENT NO.: 2022CPT.06.02.10091.1, 2022CPT.06.02.20091.1

ROUTE NO.: NC 242 & SR 1100

LOCATION: VARIOUS

COUNTY: BLADEN

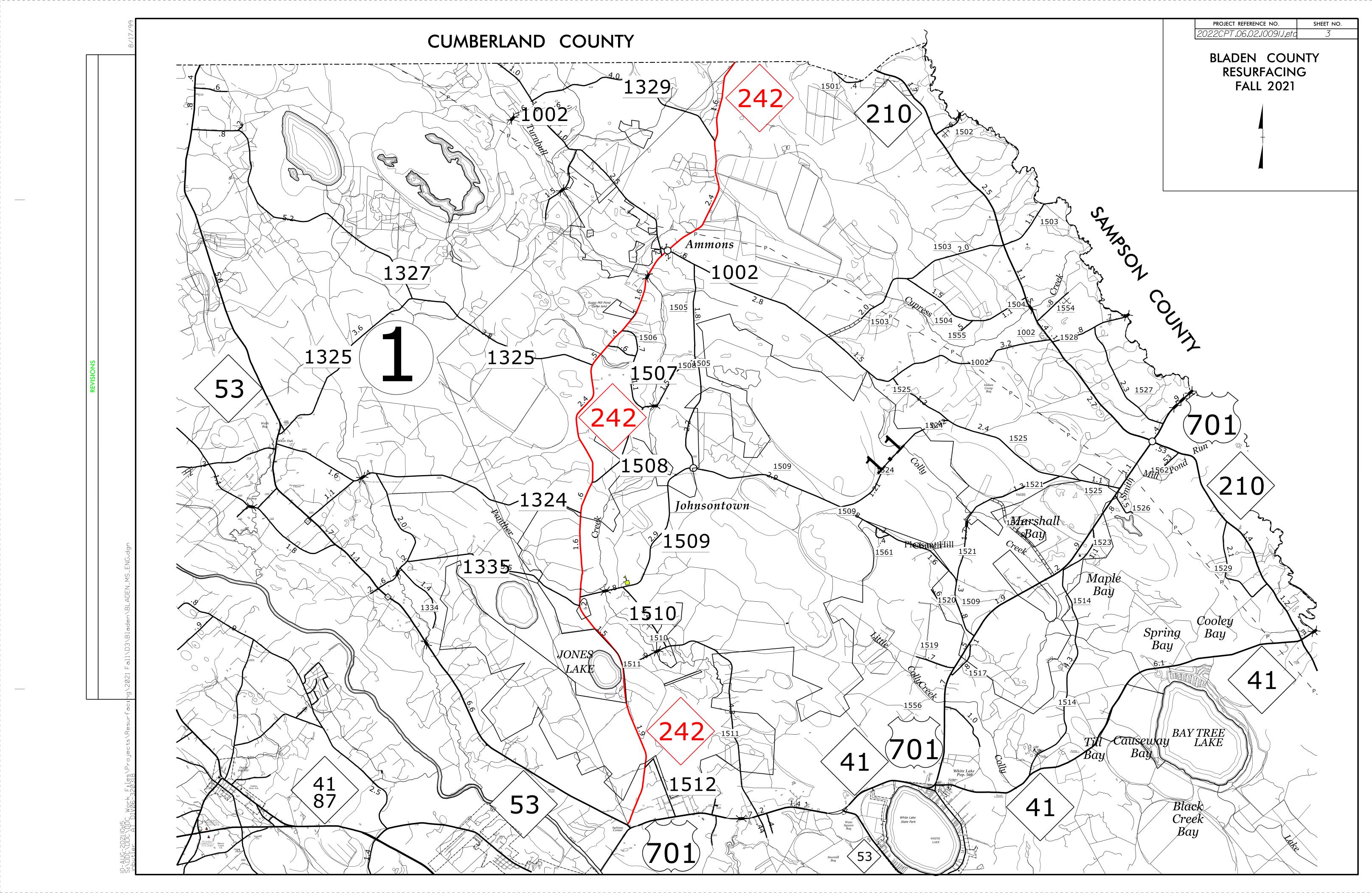
LENGTH OF PROJECT: 24.38 MILES

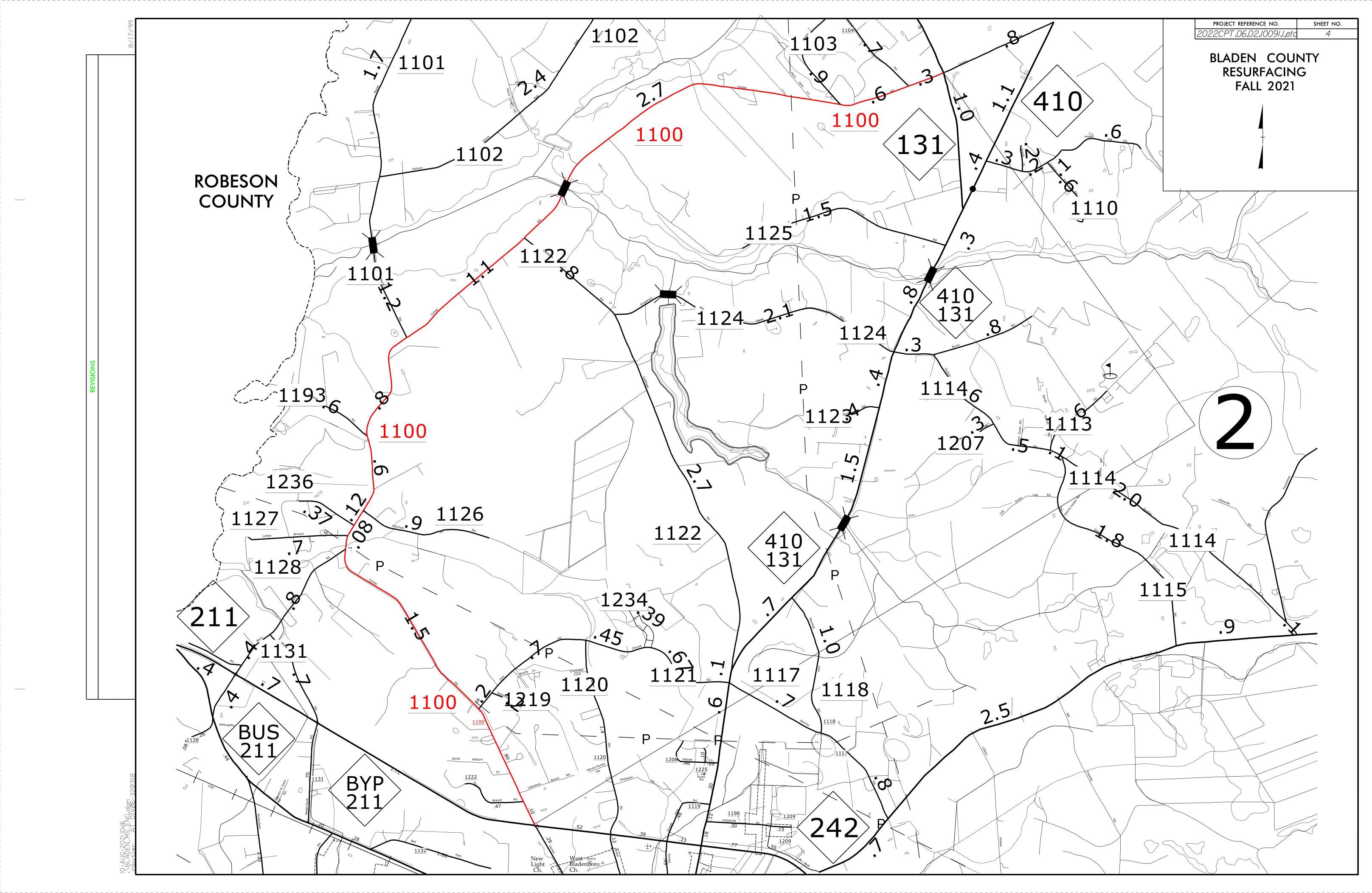
TYPE OF WORK: RESURFACING, MILLING, WIDENING & PVT. MKGS.

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PAVEMENT SCHEDULE
1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C,AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C,AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
EXISTING ASPHALT PAVEMENT
0"-1½" MILLING

D1

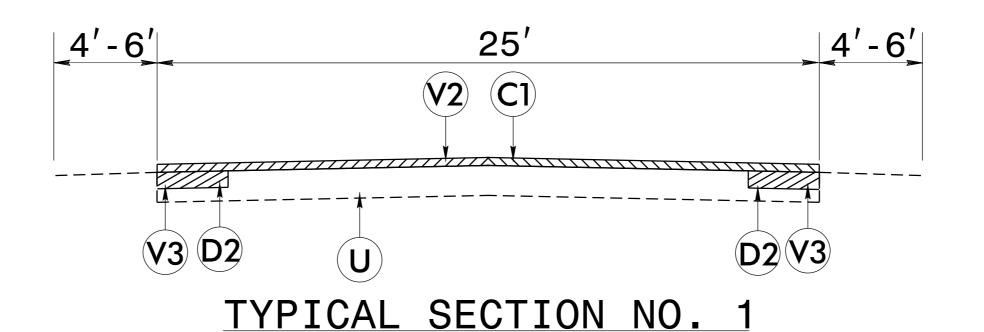
D2

T1

1½″ MILLING

2½" MILLING

4" MILLING



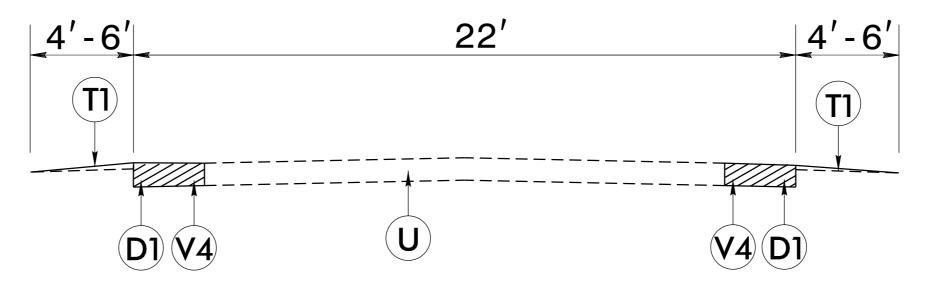
*PLUS ADDITIONAL 2' INSIDE CURVE WIDENING (SEE DETAIL)

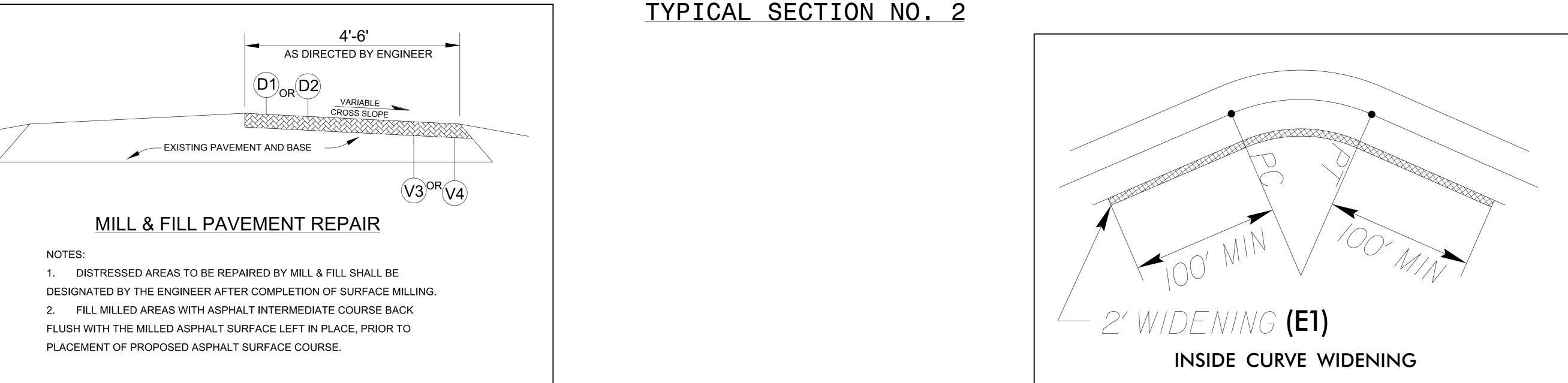
NOTES:

1. UPON COMPLETION OF SURFACE MILLING, TEMPORARY PAINT MARKINGS SHALL BE INSTALLED WITHIN TIME FRAME ESTABLISHED IN STD. SPECS.

PROJECT REFERENCE NO. 2022CPT.06.02.10091.1,etc

- 2. CONTRACTOR SHALL BEGIN WIDENING AND/OR MILL & FILL OPERATION WITHIN 3 DAYS OF COMPLETING SURFACE MILLING.
- 3. CONTRACTOR SHALL BEGIN PLACEMENT OF FINAL SURFACE WITHIN 3 DAYS OF COMPLETING WIDENING AND/OR MILL & FILL OPERATION.





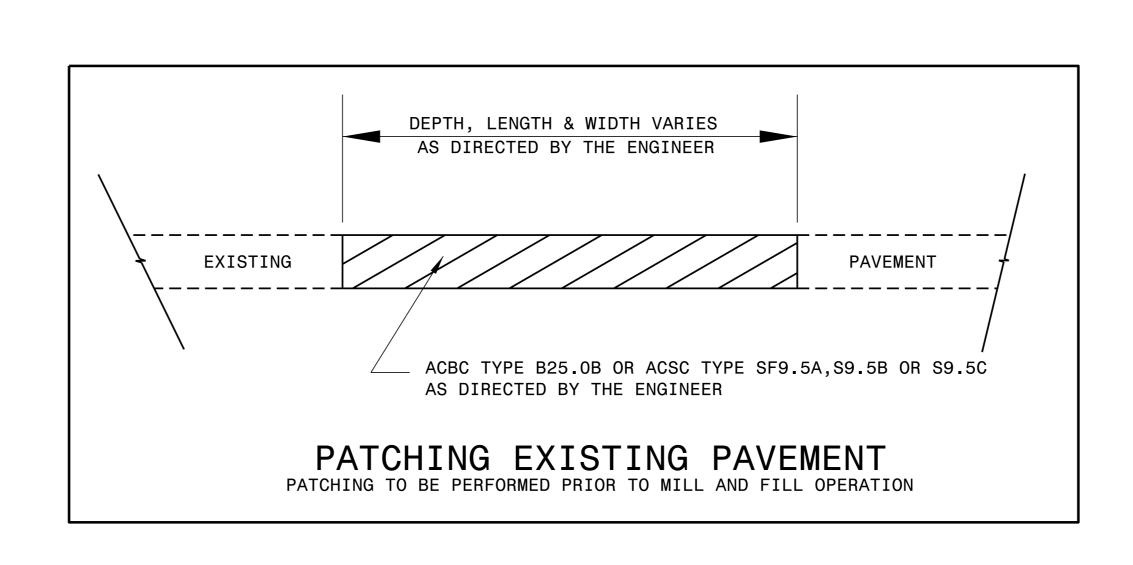
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SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
EXISTING ASPHALT PAVEMENT

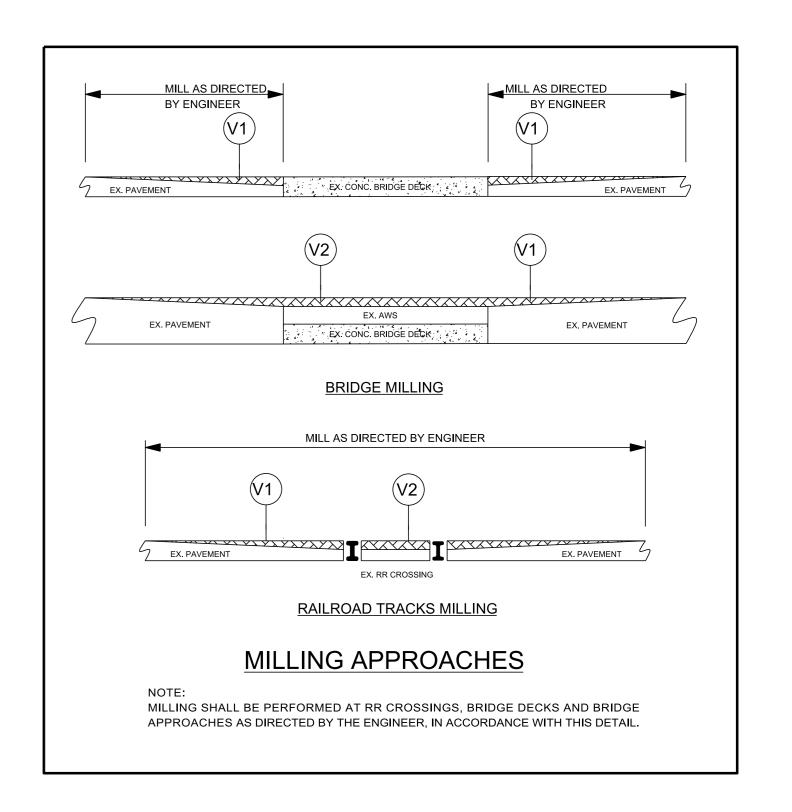
0"-1½" MILLING

1½″ MILLING

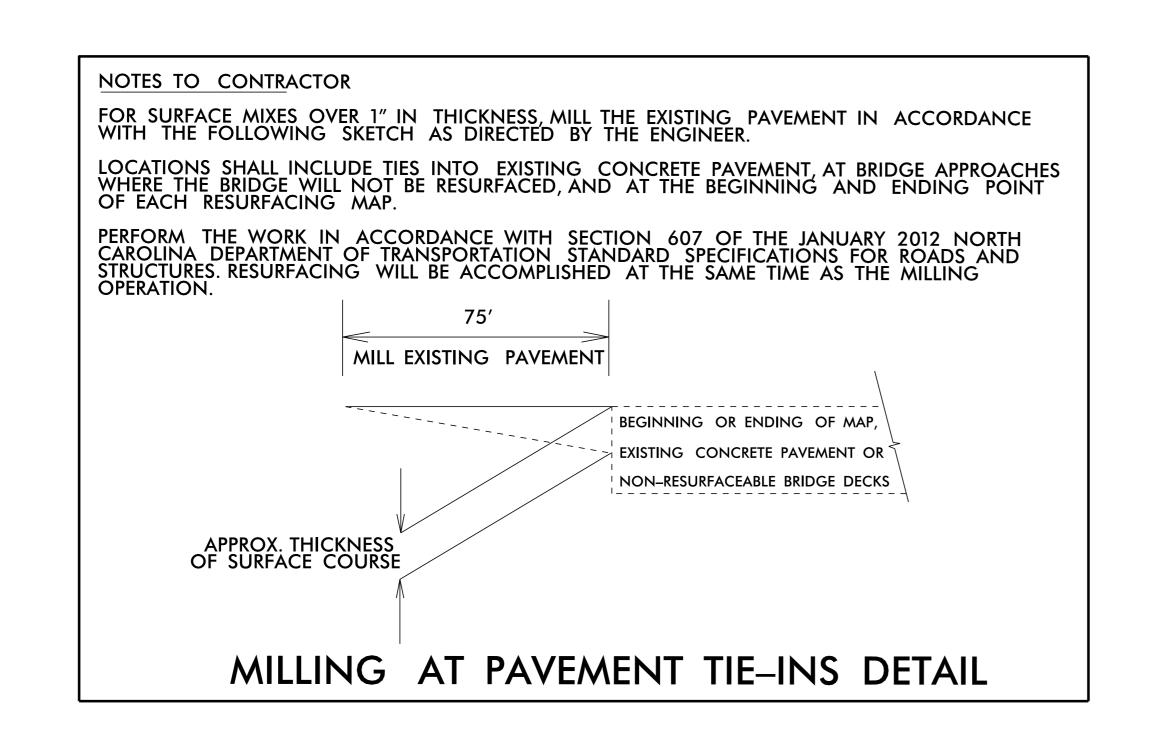
2½" MILLING

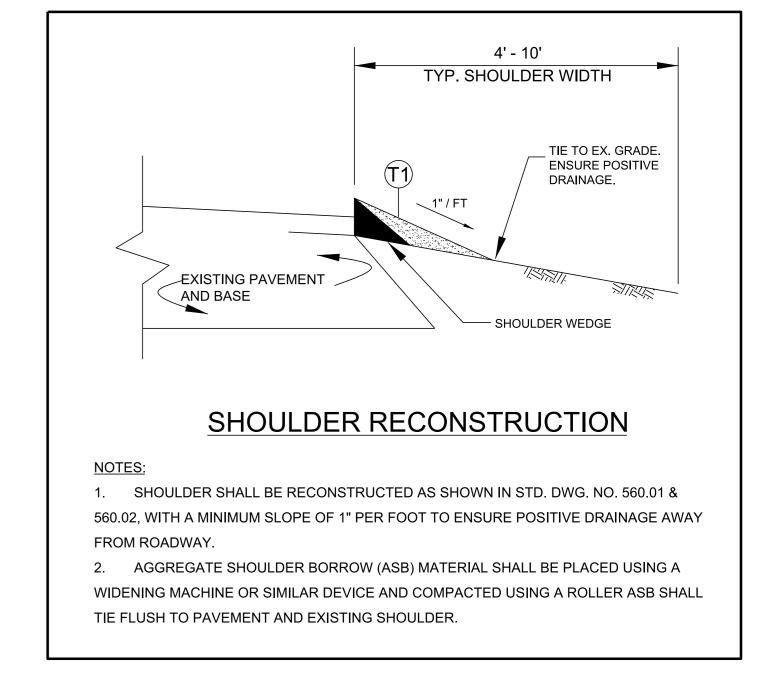
4" MILLING



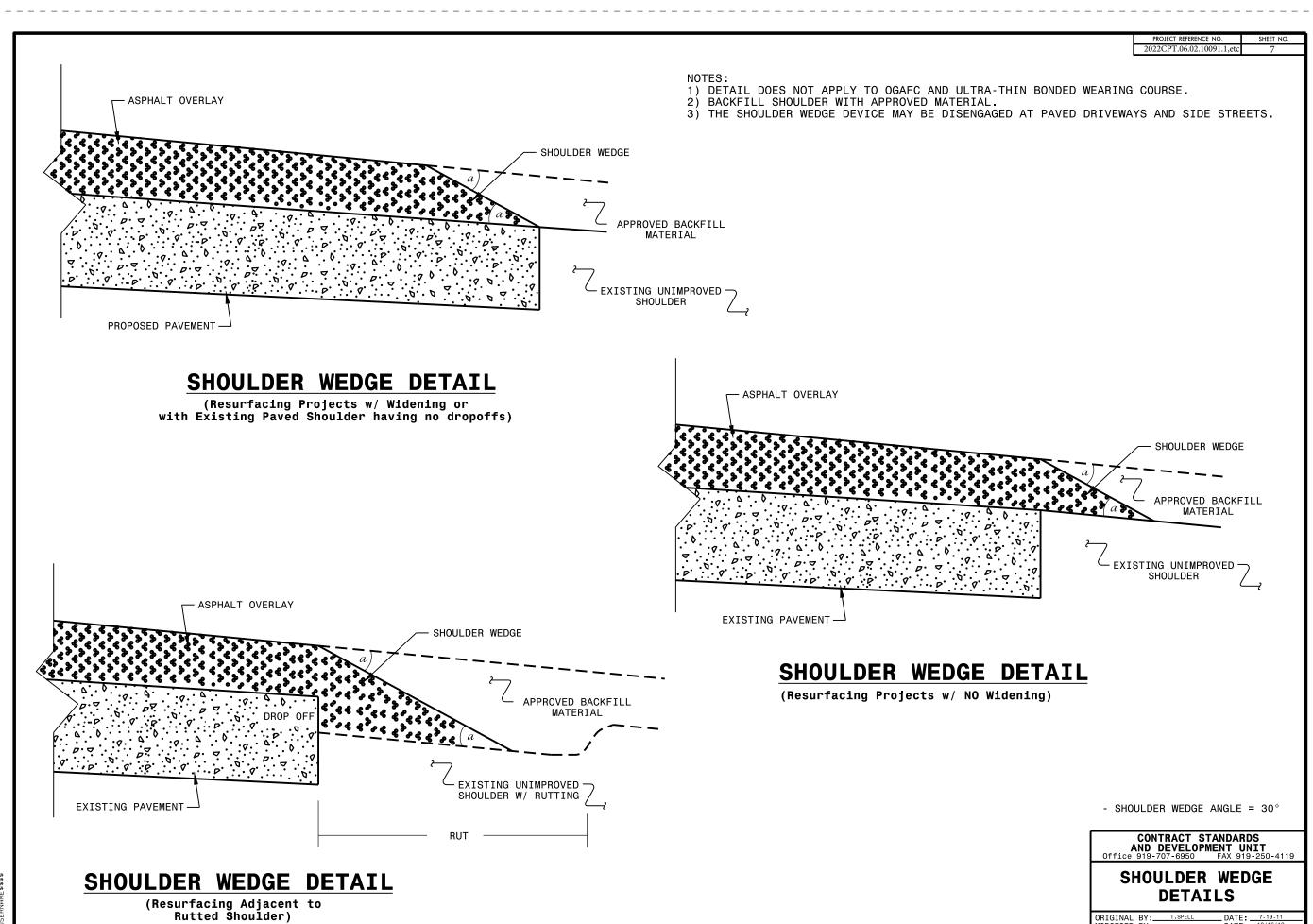


PROJECT REFERENCE NO. 2022CPT.06.02.10091.1,etc





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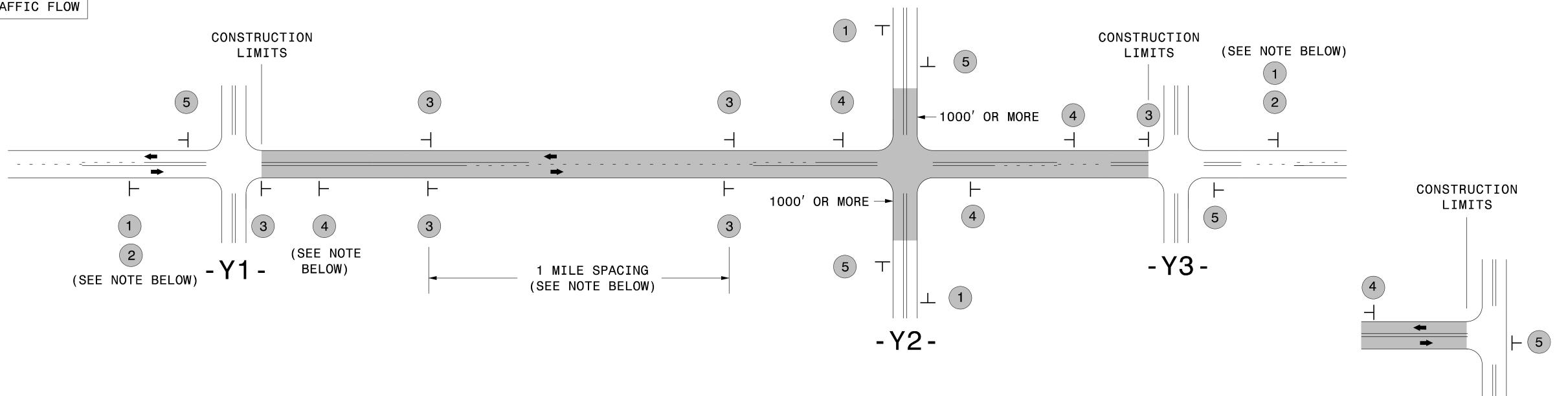
ORIGINAL BY: T.SPELL MODIFIED BY:

PROJ. REFERENCE NO. 2022CPT.06.02.10091.1,etc

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

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
- 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.

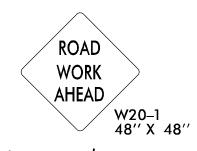
ALONG -L- LINE.

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

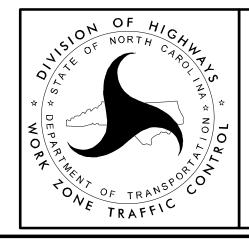
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



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

PROJECT REFERENCE NO.	SHEET NO
2022CPT.06.02.10091.1, etc	9

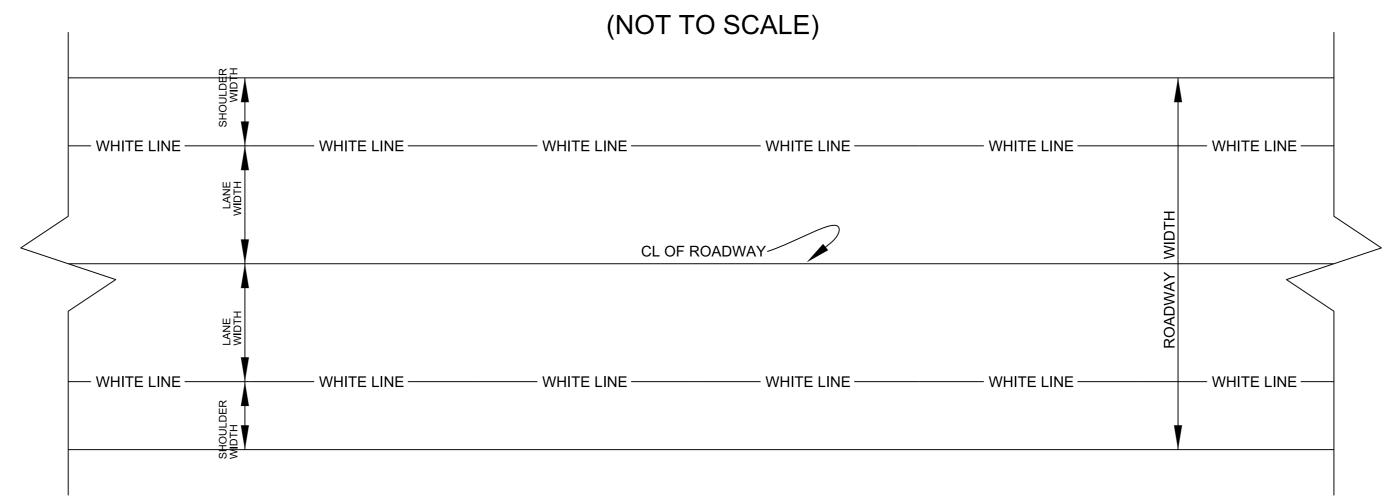
GUIDELINES FOR LANE WIDTHS ON RESURFACING PROJECTS

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



SUMMARY OF QUANTITIES

	SUMMART OF QUANTITIES															
			1220000000-E	1245000000-E 1260000000-		129700000-E										
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENG	WIDTH		SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW		
							REQUIRED				FT	TONS	SMI	TON	SY	SY
2022CPT.06.02.10091.1	Bladen	1	NC 242	FROM NC 53 TO CUMBERLAND CL	1	2	2WU	NO	NO	15.81	25	158			232,206	704
TOTAL	FOR MAP N	0. 1								15.81		158			232,206	704
TOTAL FOR BROAD	NO 2022CD	T 00 00 400	04.4							15.81		158			232,206	704
TOTAL FOR PROJ	NO. 2022CP	1.06.02.100	91.1												232,	910
2022CPT.06.02.20091.1	Bladen	2	SR 1100	FROM NC 131 TO NC 211 BYP.	2	2	2WU	NO	NO	8.57	22		17.14	2,858		
	FOR MAP NO	0. 2						_		8.57			17.14	2,858		
TOTAL FOR PROJ	NO. 2022CP	91.1							8.57			17.14	2,858			
	1															
CD.	AND TOTAL								24.38		158	17.14	2,858	232,206	704	
GRA	AND TOTAL												•	232,	910	

PROJECT NO.

2022CPT.06.02.10091.1,

SHEET NO. TOTAL NO.

												1330000000-E	1491000000-E	1503000000-E	1523000000-E	1575000000-E
PROJECT NO	NO COUNTY MAP NO ROUTE DESCRIPTION SURI		FINAL SURFACE TESTING	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	INCIDENTAL MILLING	BASE COURSE, B25.0C	INTERMEDIATE COURSE, I19.0C	SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX					
					-		//	REQUIRED		MI	FT	SY	TONS	TONS	TONS	TONS
2022CPT.06.02.10091.1	Bladen	1	NC 242	FROM NC 53 TO CUMBERLAND CL	1	2	2WU	NO	NO	15.81	25	4,476	368	100	19,929	1,217
TOTAL	FOR MAP N	0. 1								15.81		4,476	368	100	19,929	1,217
TOTAL FOR PROJ	NO. 2022CP	T.06.02.100	91.1							15.81		4,476	368	100	19,929	1,217
	1															
2022CPT.06.02.20091.1	Bladen	2	SR 1100	FROM NC 131 TO NC 211 BYP.	2	2	2WU	NO	NO	8.57	22			4,585		220
TOTAL	FOR MAP N	0. 2								8.57				4,585		220
TOTAL FOR PROJ	NO 3033CB	T 06 02 200	01 1							8.57				4,585		220
TOTALTOR PROS	NO. 2022CF	1.00.02.200	91.1													
													<u> </u>			
GR	AND TOTAL									24.38		4,476	368	4,685	19,929	1,437
1	IIID IOIAL															

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO. SHEET NO. TOTAL NO. 2022CPT.06.02.10091.1, 2022CPT.06.02.20091.1

			4413000000-E	4457000000-N 468		00000-E	4810000000-E		4900000000-N							
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	NE TYPE	LENGTH	WIDTH	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	4" WHITE PAINT	4" YELLOW PAINT	YELLOW & YELLOW MARKERS
					•		🖒	MI	FT	SF	LS	LF	LF	LF	LF	EA
2022CPT.06.02.10091.1	Bladen	1	NC 242	FROM NC 53 TO CUMBERLAND CL	1	2	2WL	15.8	1 25	1,771	1	166,954	116,649	166,954	116,649	1,043
TOTAL F	OR MAP NO). 1						15.81	1	1,771	1	166,954	116,649	166,954	116,649	1,043
TOTAL FOR PROJ N	IO 2022CBT	N6 N2 100	01 1					15.81	1	1,771	1	166,954	116,649	166,954	116,649	1,043
TOTALTOR PROJE	T 2022CF 1	.00.02.100 T	1									28	283,603		283,603	
2022CPT.06.02.20091.1	Bladen	2	SR 1100	FROM NC 131 TO NC 211 BYP.	2	2	2WL	8.57	22	960						
TOTAL F	OR MAP NO	. 2						8.57	1	960						
TOTAL FOR PROJ N	IO. 2022CPT	91.1					8.57		960							
GRA	ND TOTAL							24.38	3	2,731	1	166,954	116,649	166,954	116,649	1,043
GNA	HD IOIAL										283,603		283,603			