STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION 6

PLANS

Letting Date: November 2, 2022

CONTRACT ID: DF00413

TIP NO.: -----

FEDERAL AID NO.: STATE FUNDED

WBS ELEMENT NO.: 2023CPT.06.03.10091.1

ROUTE NO.: NC 211

LOCATION: FROM SR 1755 TO ECL CLARKTON

COUNTY: BLADEN

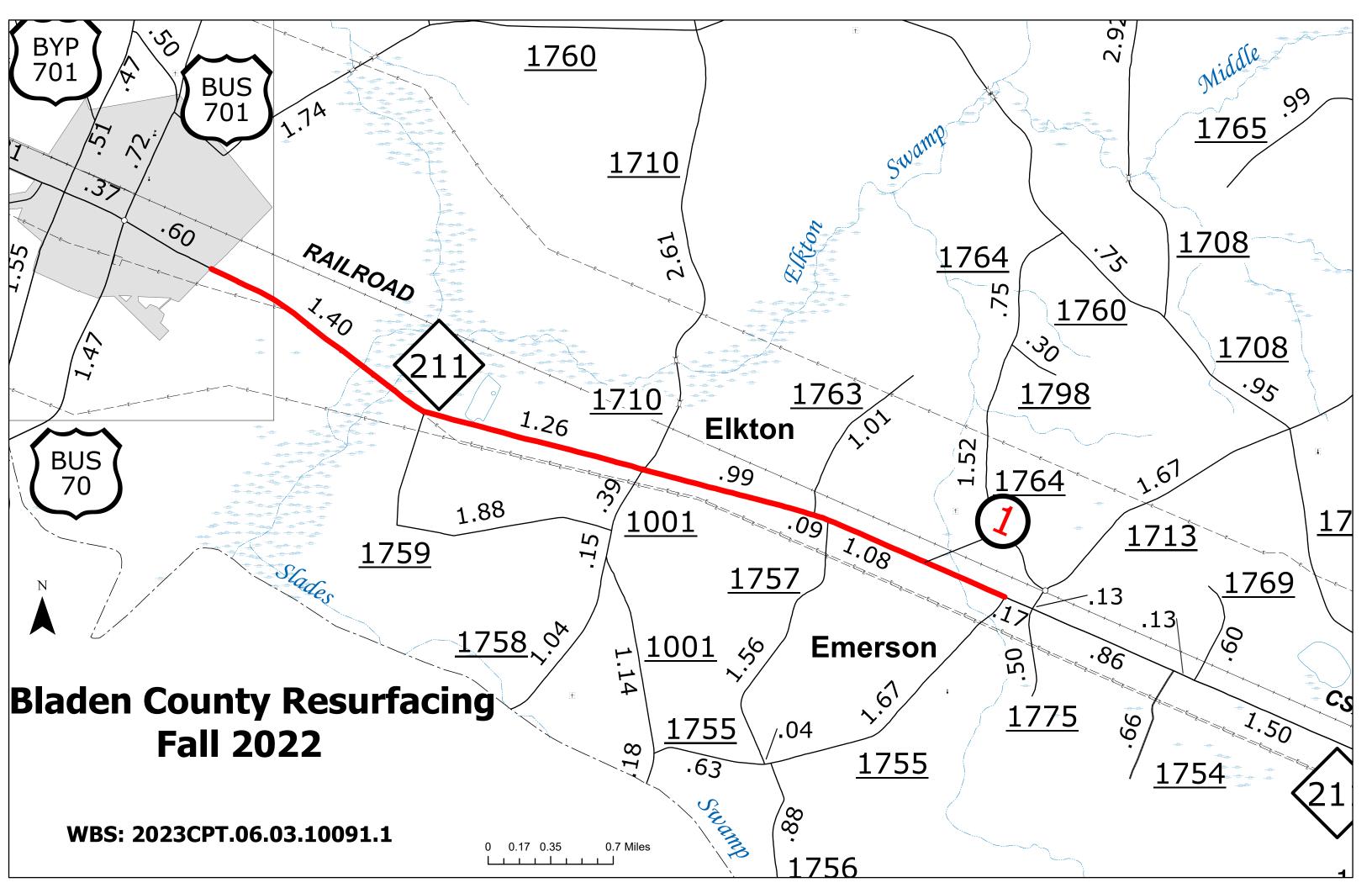
LENGTH OF PROJECT: 4.86 MILES

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

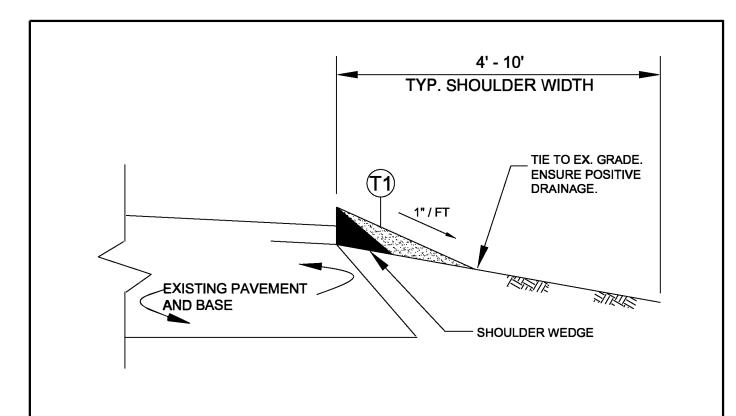
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| | PAVEMENT SCHEDULE |
|----|--|
| C1 | 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. |
| D1 | 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C,AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD. |
| Т1 | SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW |
| U | EXISTING ASPHALT PAVEMENT |
| V1 | 0"-1½" MILLING |
| V2 | 1½" MILLING |
| V3 | 2" MILLING |
| V4 | 2½" MILLING |

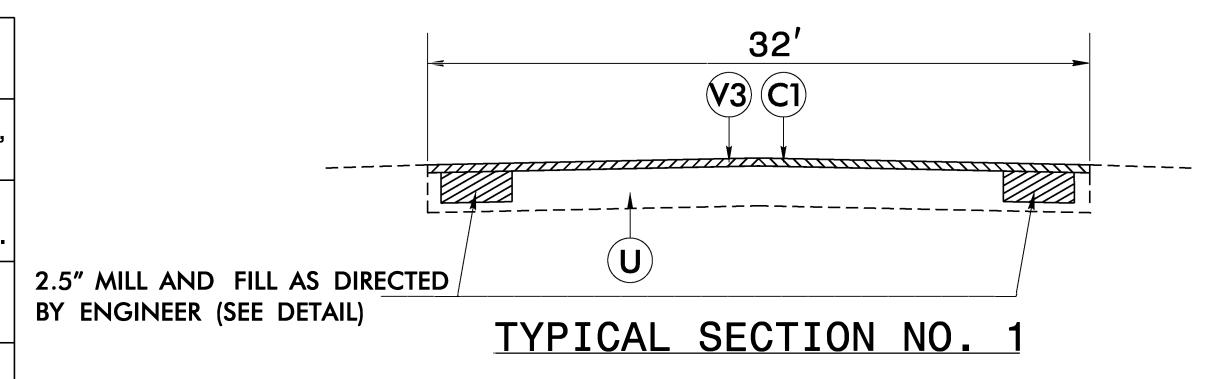


NOTES:

1. SHOULDER SHALL BE RECONSTRUCTED AS SHOWN IN STD. DWG. NO. 560.01 & 560.02, WITH A MINIMUM SLOPE OF 1" PER FOOT TO ENSURE POSITIVE DRAINAGE AWAY FROM ROADWAY.

SHOULDER RECONSTRUCTION

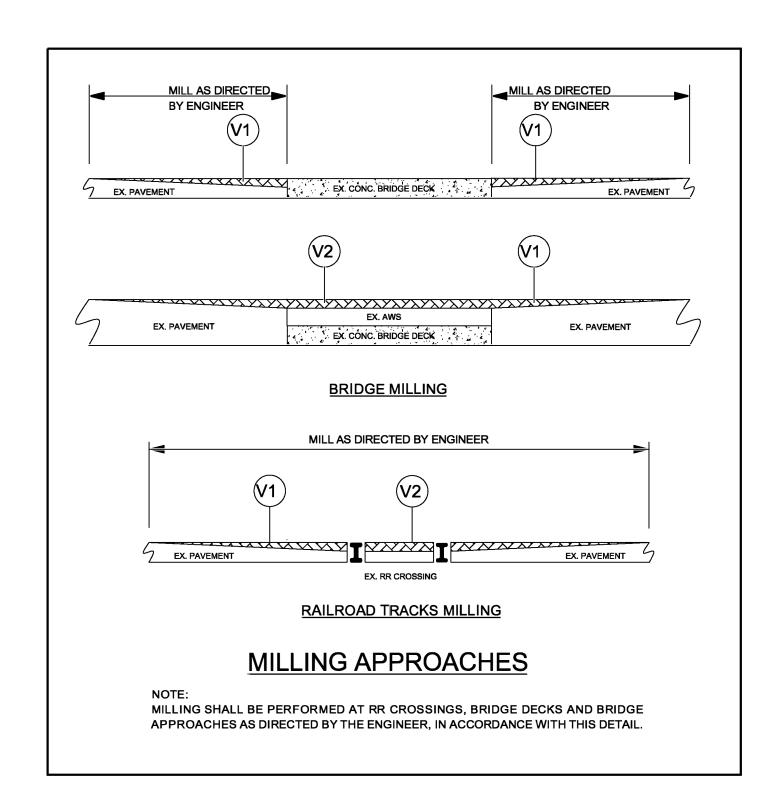
2. AGGREGATE SHOULDER BORROW (ASB) MATERIAL SHALL BE PLACED USING A WIDENING MACHINE OR SIMILAR DEVICE AND COMPACTED USING A ROLLER ASB SHALL TIE FLUSH TO PAVEMENT AND EXISTING SHOULDER.

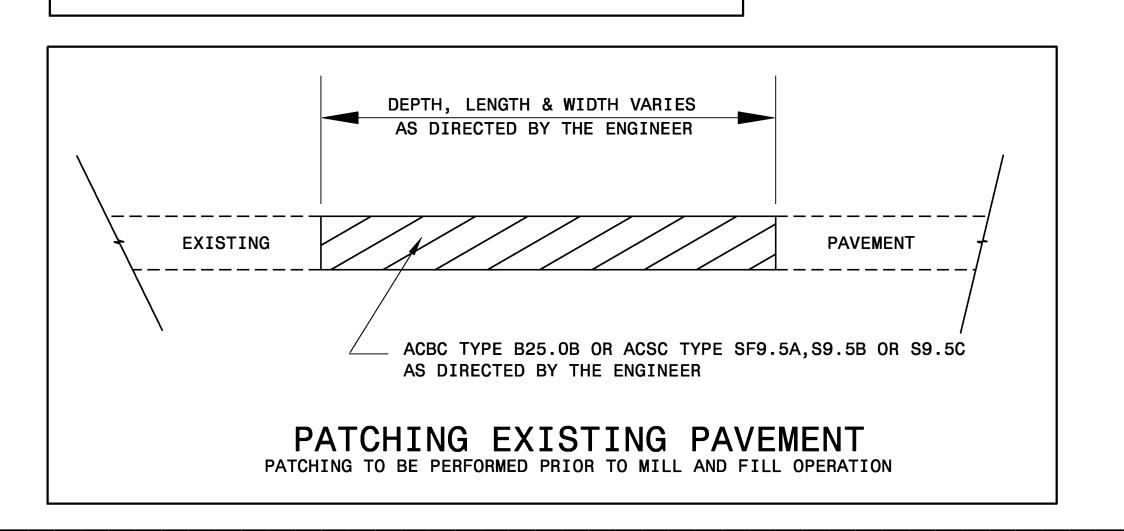


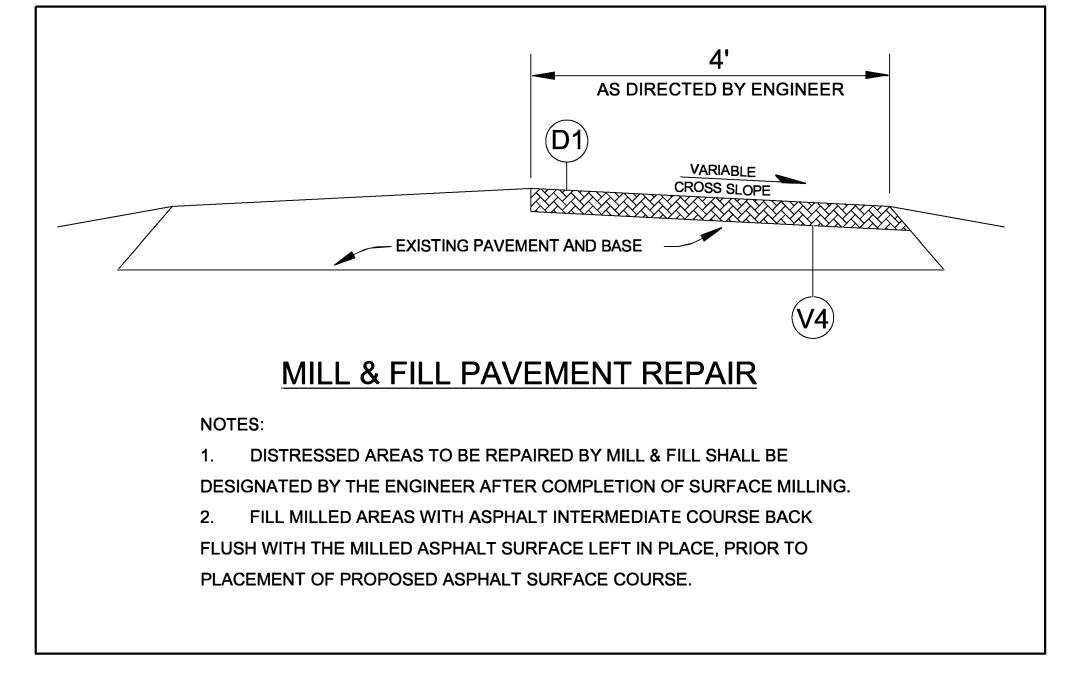
NOTES TO CONTRACTOR FOR SURFACE MIXES OVER 1" IN THICKNESS, MILL THE EXISTING PAVEMENT IN ACCORDANCE WITH THE FOLLOWING SKETCH AS DIRECTED BY THE ENGINEER. LOCATIONS SHALL INCLUDE TIES INTO EXISTING CONCRETE PAVEMENT, AT BRIDGE APPROACHES WHERE THE BRIDGE WILL NOT BE RESURFACED, AND AT THE BEGINNING AND ENDING POINT OF EACH RESURFACING MAP. PERFORM THE WORK IN ACCORDANCE WITH SECTION 607 OF THE JANUARY 2012 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. RESURFACING WILL BE ACCOMPLISHED AT THE SAME TIME AS THE MILLING OPERATION. 75' MILL EXISTING PAVEMENT BEGINNING OR ENDING OF MAP, EXISTING CONCRETE PAVEMENT OR NON-RESURFACEABLE BRIDGE DECKS APPROX. THICKNESS OF SURFACE COURSE MILLING AT PAVEMENT TIE—INS DETAIL

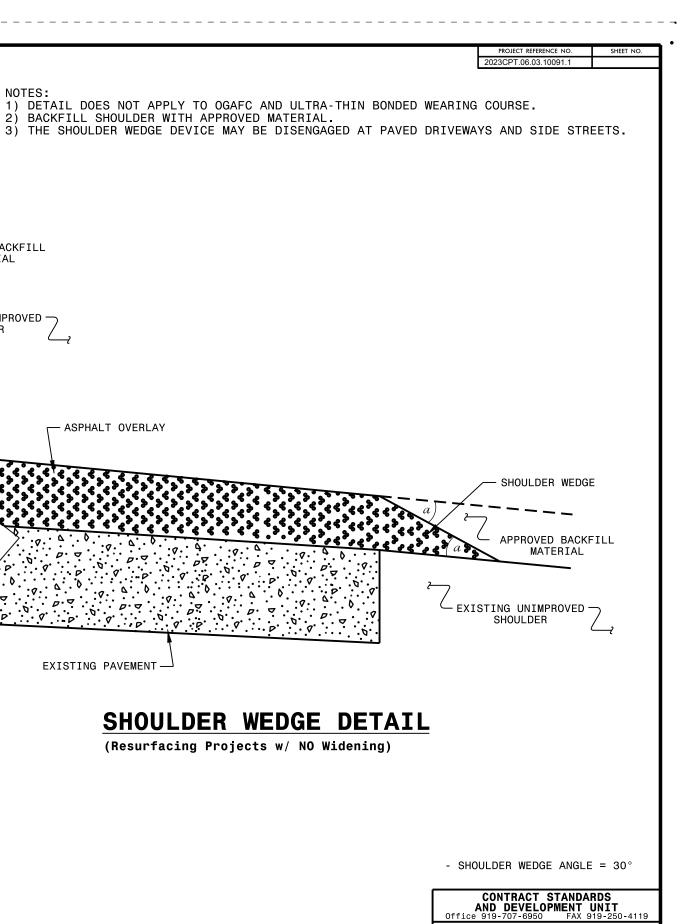
NOTES:

- 1. UPON COMPLETION OF SURFACE MILLING, TEMPORARY PAINT MARKINGS SHALL BE INSTALLED WITHIN TIME FRAME ESTABLISHED IN STD. SPECS.
- 2. CONTRACTOR SHALL BEGIN MILL & FILL OPERATION WITHIN 3 DAYS OF COMPLETING SURFACE MILLING.
- 3. CONTRACTOR SHALL BEGIN PLACEMENT OF FINAL SURFACE WITHIN 3 DAYS OF COMPLETING MILL & FILL OPERATION.







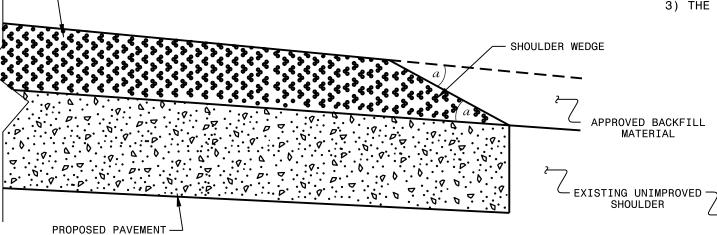




- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.

- ASPHALT OVERLAY

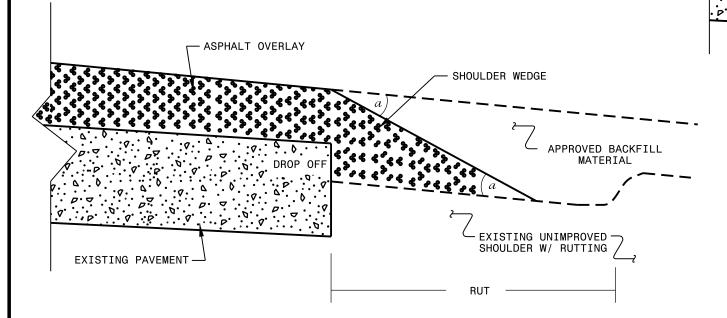
EXISTING PAVEMENT —



SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ Widening or with Existing Paved Shoulder having no dropoffs)

ASPHALT OVERLAY



SHOULDER WEDGE DETAIL

(Resurfacing Projects w/ NO Widening)

SHOULDER WEDGE **DETAILS**

| ORIGINAL BY: | T.SPELL DATE: | 7-19-11 |
|---------------|--------------------------------|-------------|
| MODIFIED BY: | DATE: | 10/16/12 |
| CHECKED BY:_ | DATE: | |
| FILE SPEC : s | usr/details/stand/shoulderwedg | edetail dgn |

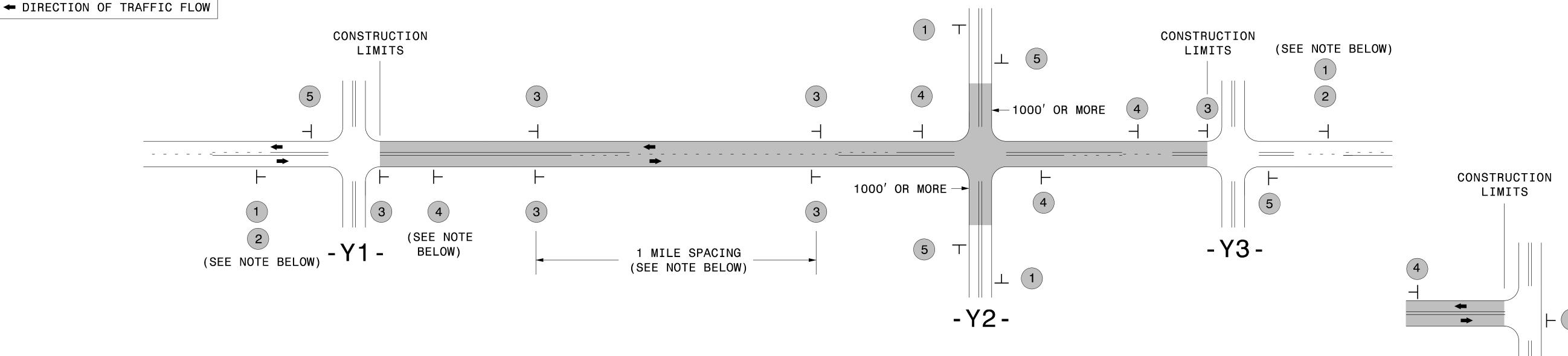
SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

PROJ. REFERENCE NO. SHEET NO. 2023CPT.06.03.10091.1

SIGNING FOR RESURFACING PROJECTS





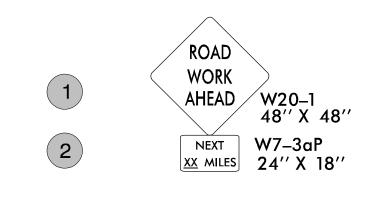
TEE INTERSECTION

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

IGNING NOTES AND EMENT PER DIRECTION

SO

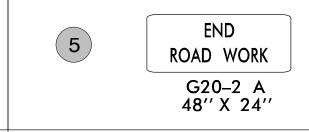


PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS.
ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.

#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 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 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

| PROJECT REFERENCE NO. | SHEET NO. |
|-----------------------|-----------|
| 2023CPT.06.03.10091.1 | |

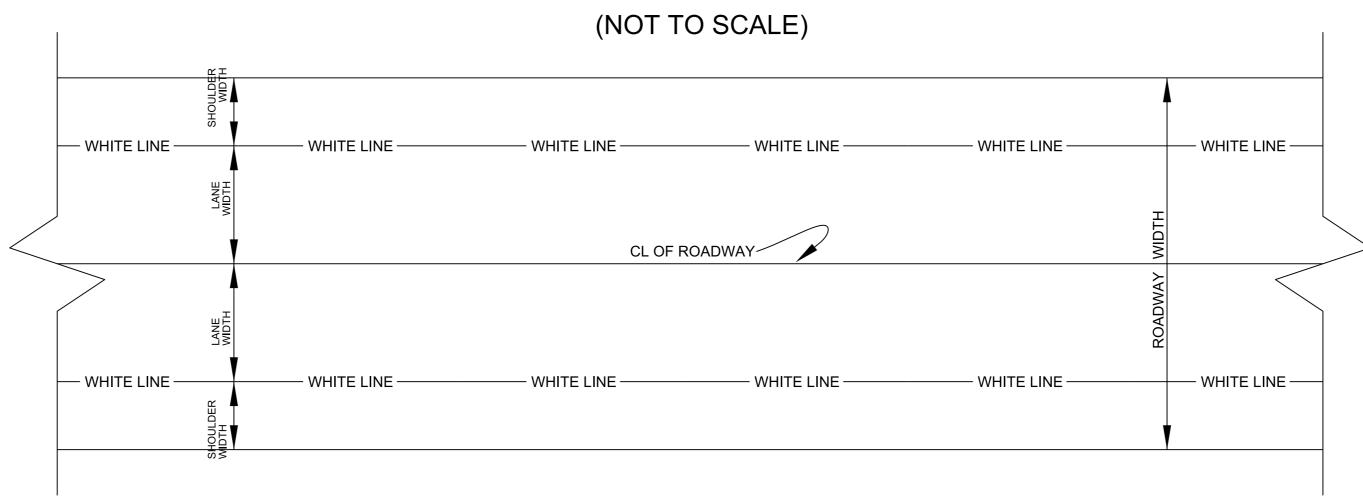
GUIDELINES FOR LANE WIDTHS ON RESURFACING PROJECTS

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' | 26' 11' | | | | | | | | | | | |
| 28' | 12' | 2' | | | | | | | | | | |
| 32' | 12' | 4' | | | | | | | | | | |
| 32' 12' 4' * May vary due to pavement width | | | | | | | | | | | | |

| TWO LANE - TWO WAY ROADWAY MPH OR LESS 50 | | | | | | | | | | | | |
|---|----------------------------------|----|--|--|--|--|--|--|--|--|--|--|
| 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 pavemen | * May vary due to pavement width | | | | | | | | | | | |

SCHEMATIC OF ROADWAY



| | | | SU | JMMARY O | F | Q | UAN | ITIT | ΙE | S | | | | 2023CPT. | 06.03.10091.1 | | |
|-----------------------|--------|--------|--------|------------------------------|--------|-------|-----------------------------|---------------------------------|--------|-------|--------------------------|--------------|------------|-----------------------|--------------------------------|-----------------------------|------------------------------------|
| | | | | | | | | | | | 1220000000-E | 129700 | 0000-E | 1330000000-E | 1503000000-E | 1523000000-E | 1575000000-E |
| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANE | FINAL SURFACE TESTING | WARM MIX ASPHALT REQUIRED | LENGTH | WIDTH | INCIDENTAL STONE BASE | 2.5" MILLING | 2" MILLING | INCIDENTAL MILLING | INTERMEDIATE COURSE, I19.0C | SURFACE COURSE, S9.5C | ASPHALT BINDER FOR PLANT MIX |
| | | | | | | | REQUIRED | | ΜI | FT | TONS | SY | SY | SY | TONS | TONS | TONS |
| 2023CPT.06.03.10091.1 | Bladen | 1 | NC 211 | FROM SR 1755 TO ECL CLARKTON | 1 2 | 2 2WU | NO | NO | 4.86 | 32 | 49 | 939 | 91,238 | 2,891 | 134 | 7,790 | 474 |

49

49

49

939

939

939

91,238

91,238

91,238

92,177

92,177

4.86

4.86

4.86

PROJECT NO.

134

134

134

2,891

2,891

2,891

SHEET NO.

7,790

7,790

7,790

TOTAL NO.

474

474

474

| | | | | | | | | | | | | | | | PROJ | ECT NO. | SHEET NO. | TOTAL NO. |
|-----------------------|-------------|-------------|--------|------------------------------|--------|-------|--------------|----------|---------------------------------|--------|-------|---|---------------------------------|------------------------------|-------------------------------|----------------|--------------------|-------------------------------|
| 7 | ГΗΕ | RM | O P | LASTIC AN | D | | P | AIN | T Q | U | A | NTITIE | ES | | 2023CPT. | 06.03.10091.1 | | |
| | | | | | | | | | | | | 4413000000-E | 4457000000-N | 46850 | 00000-E | 4810000 | 000-E | 490000000-N |
| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | TESTING | WARM MIX ASPHALT REQUIRED | 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 |
| | | | | | ļ. | | | REQUIRED | | MI | FT | SF | LS | LF | LF | LF | LF | EA |
| 2023CPT.06.03.10091.1 | Bladen | 1 | NC 211 | FROM SR 1755 TO ECL CLARKTON | 1 | 2 | 2WU | NO | NO | 4.86 | 32 | 544 | 1 | 51,322 | 35,925 | 51,322 | 35,925 | 321 |
| TOTAL | FOR MAP N | 0. 1 | | | | | | | | 4.86 | | 544 | 1 | 51,322 | 35,925 | 51,322 | 35,925 | 321 |
| TOTAL FOR PROJ | NO 2022CB | T 06 03 100 | 01 1 | | | | | | | 4.86 | | 544 | 1 | 51,322 | 35,925 | 51,322 | 35,925 | 321 |
| TOTAL FOR FROS | NO. 2023CF | 1.00.03.100 | 91.1 | | | | | | | | | | | 87,247 | | 87,247 | | |
| | | | | | | | | | | | | | | | | | • | |
| GP | CRAND TOTAL | | | | | | | | | 4.86 | | 544 | 1 | 51,322 | 35,925 | 51,322 | 35,925 | 321 |
| GRAND TOTAL | | | | | | | | | | | • | | 87,247 | | 87,247 | • | | |

TOTAL FOR MAP NO. 1

TOTAL FOR PROJ NO. 2023CPT.06.03.10091.1

GRAND TOTAL