STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION 6

PLANS

Letting Date: April 6, 2022

CONTRACT ID: DF00304

TIP NO.: -----

FEDERAL AID NO.: STATE FUNDED

WBS ELEMENT NO.: 2022CPT.06.15.10781.1

ROUTE NO.: NC 41 & NC 71

LOCATION: VARIOUS

COUNTY: ROBESON

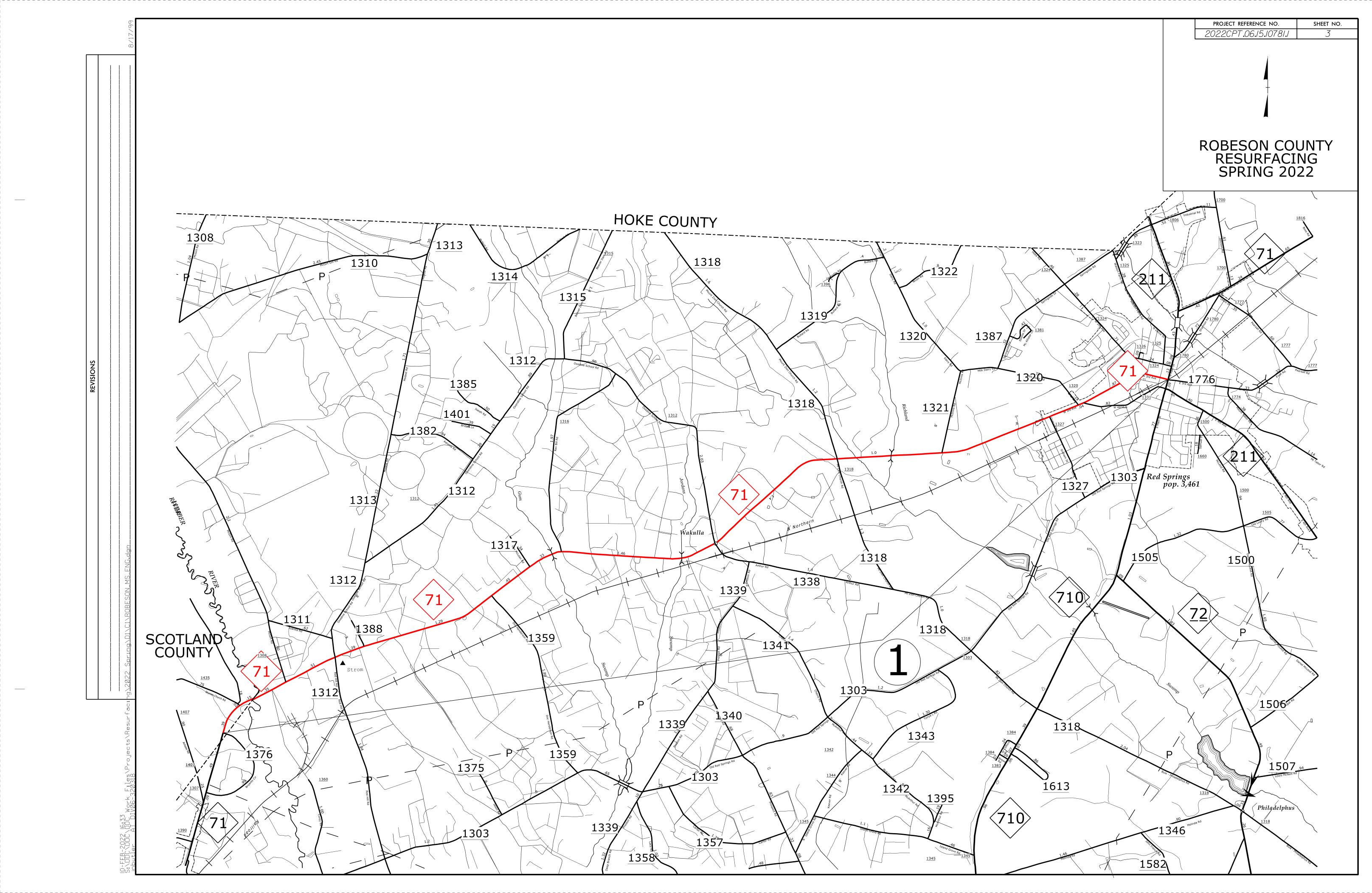
LENGTH OF PROJECT: 14.8 MILES

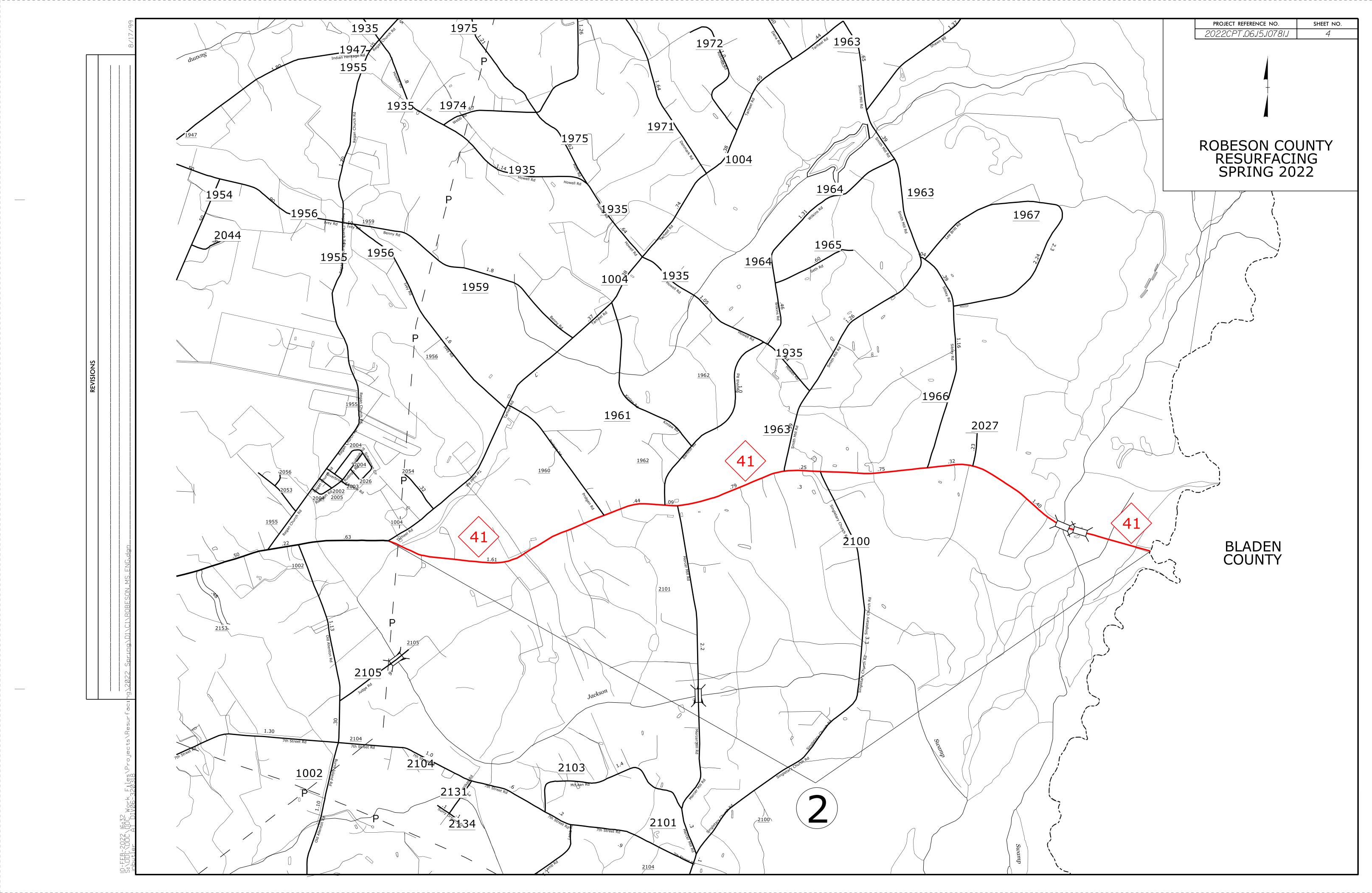
TYPE OF WORK: RESURFACING, MILLING, & PVT. MKGS.

This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document –

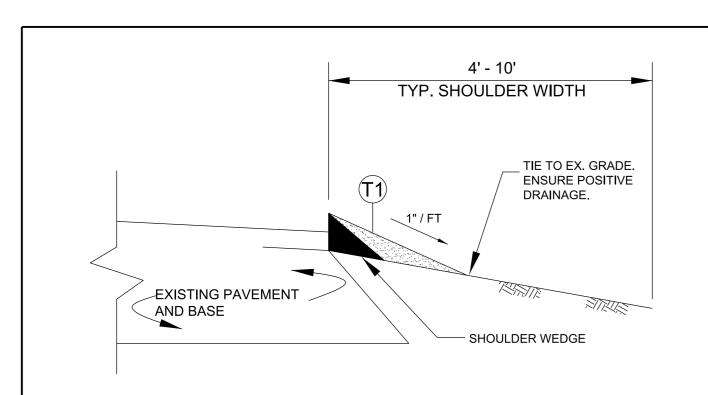
The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page.

This file or an individual page shall not be considered a certified document.





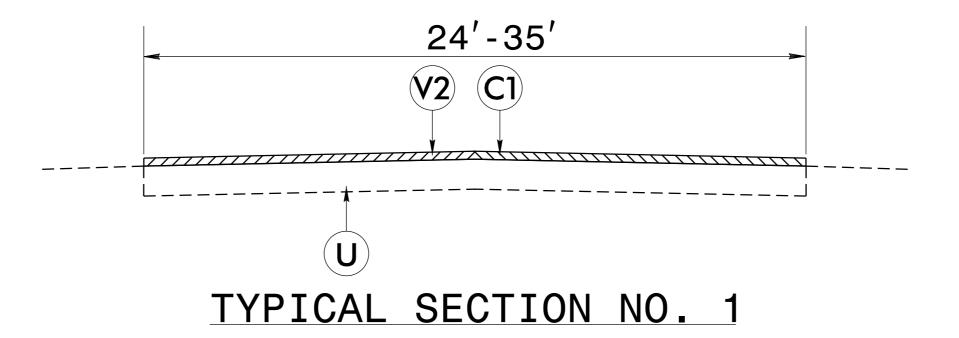
| | PAVEMENT SCHEDULE | | | | | | | | | |
|----|---|--|--|--|--|--|--|--|--|--|
| C1 | 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. | | | | | | | | | |
| R1 | EXISTING CURB AND GUTTER | | | | | | | | | |
| U | EXISTING ASPHALT PAVEMENT | | | | | | | | | |
| V1 | 0"-1½" MILLING | | | | | | | | | |
| V2 | ½" MILLING | | | | | | | | | |
| V3 | 1½" MILLING | | | | | | | | | |

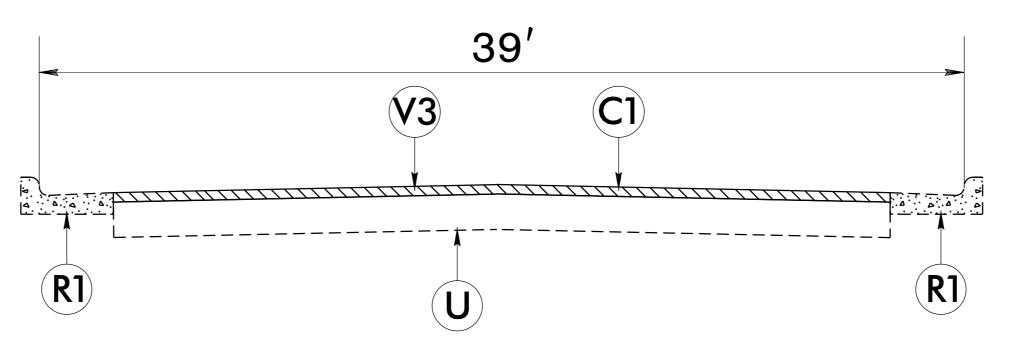


SHOULDER RECONSTRUCTION

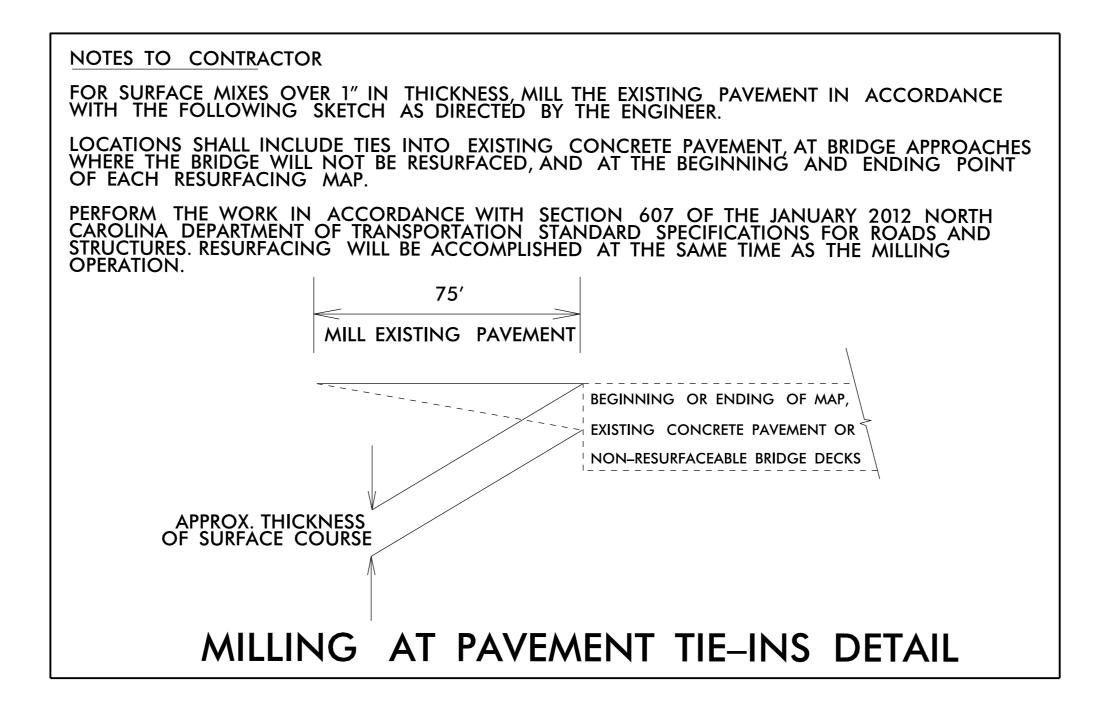
NOTES:

- 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.
- 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.



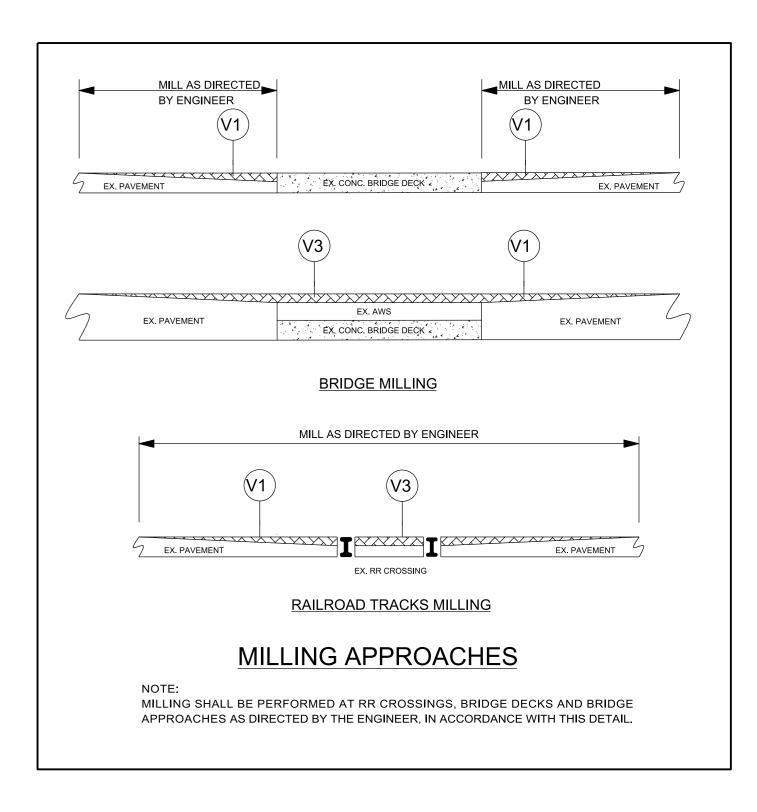


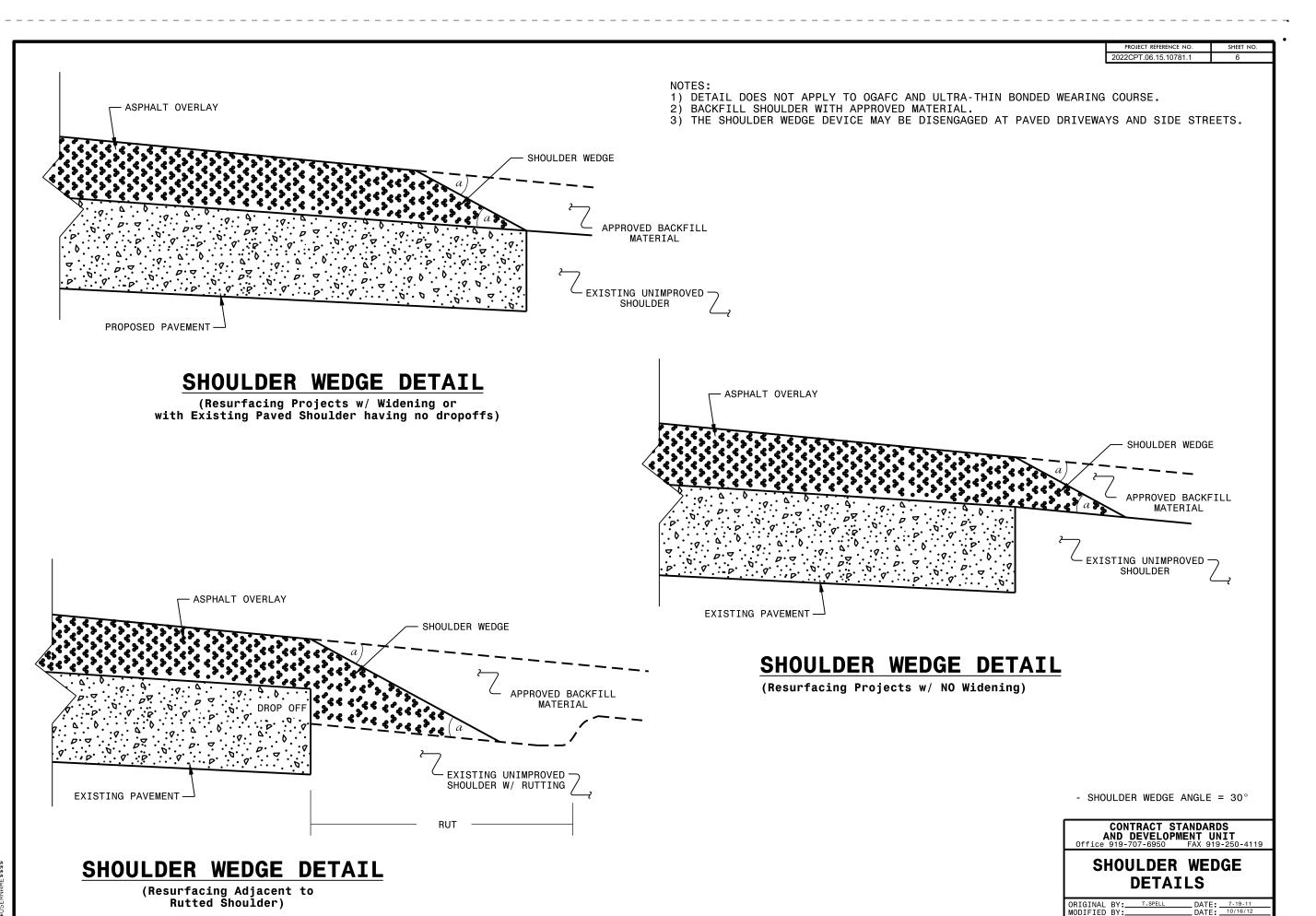
TYPICAL SECTION NO. 2



 PROJECT REFERENCE NO.
 SHEET NO.

 2022CPT.06./5./078/./
 5

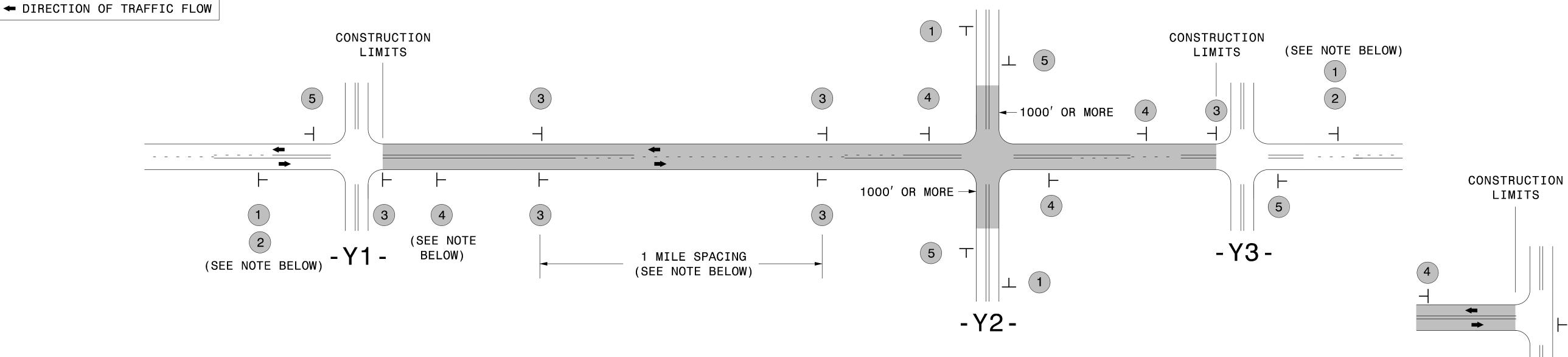




PROJ. REFERENCE NO. 2022CPT.06.15.10781.1

SIGNING FOR RESURFACING PROJECTS





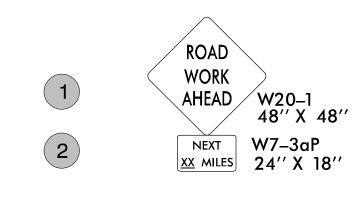
TEE INTERSECTION

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

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

SO

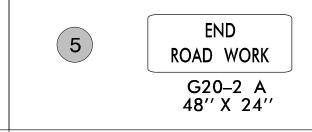


PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.

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 FOLLOWING -Y- LINE CONDITIONS:

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

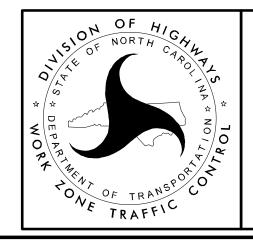
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



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 |
|-----------------------|----------|
| 2022CPT.06.15.10781.1 | 8 |

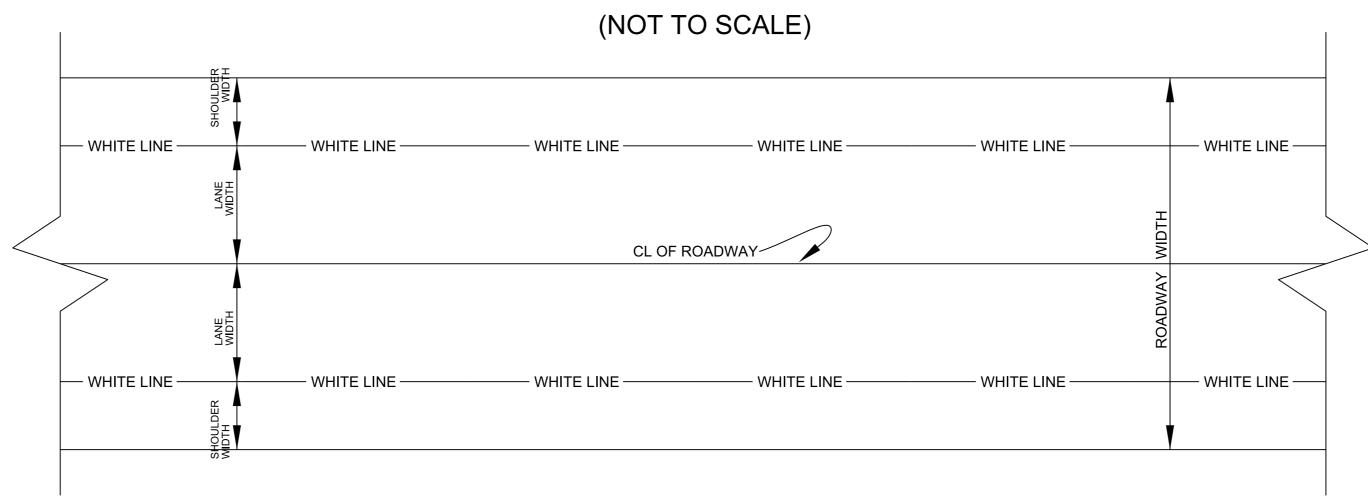
GUIDELINES FOR LANE WIDTHS ON RESURFACING PROJECTS

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 pavemen | t 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



| | SUMMARY OF QUANTITIES | | | | | | | | | | | | 2022CPT.06.15.10781.1 | | | |
|---------------------------------------|-----------------------|-------------|-----------|---|--------|-------|------|---|---------------------------------|--------|-------|--------------------------|-----------------------|-------------|--------------------------|------------------------------------|
| | | | | | | | | | | | | 1220000000-E | 1297 | 000000-E | 1523000000-E | 1575000000-E |
| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE | FINAL SURFACE TESTING REQUIRED | WARM MIX ASPHALT REQUIRED | LENGTH | WIDTH | INCIDENTAL STONE BASE | 0.5" MILLING | 1½" MILLING | SURFACE COURSE, S9.5C | ASPHALT BINDER FOR PLANT MIX |
| | | | | | | | | REQUIRED | | MI | FT | TONS | SY | SY | TONS | TONS |
| 2022CPT.06.15.10781.1 | Robeson | 1 | NC 71 - A | SCL (MP 2.33) TO MP 11.35 | 1 | 2 | 2WU | NO | NO | 9.02 | 24 | 50 | 127,002 | | 11,260 | 676 |
| | | 1 | NC 71 - B | MP 11.35 TO MP 12.05 | 1 | 2 | 2WU | NO | NO | 0.70 | 35 | 50 | 14,373 | | 1,272 | 76 |
| | | 1 | NC 71 - C | MP 12.05 TO NC 211 (MP 12.13) | 2 | 2 | 2WU | NO | NO | 0.08 | 39 | | | 1,830 | 162 | 10 |
| TOTAL | FOR MAP N | 0. 1 | | | | | | | | 9.80 | | 100 | 141,375 | 1,830 | 12,694 | 762 |
| 2022CPT.06.15.10781.1 Robeson 2 NC 41 | | | NC 41 | FROM CJ EAST OF SR 1004 TO BLADEN CL | 1 | 2 | 2WU | NO | NO | 5.00 | 28 | 50 | 82,133 | | 7,277 | 437 |
| TOTAL | FOR MAP N | O. 2 | | | | | | | | 5.00 | | 50 | 82,133 | | 7,277 | 437 |
| TOTAL FOR BROAD | NO 2022CD | T 06 45 407 | 204.4 | | | | | | | 14.80 | | 150 | 223,508 | 1,830 | 19,971 | 1,199 |
| TOTAL FOR PROJ | NO. 2022CP | 01.1 | | | | | | | | | | 2: | 25,338 | | · | |
| | | | | | | | | | | | | | | | | |
| GR | AND TOTAL | | | | | | | | | 14.80 | | 150 | 223,508 | 1,830 | 19,971 | 1,199 |
| GIO | AIID IOIAL | | | | | | | | | | | | 22 | 25,338 | | |

PROJECT NO.

SHEET NO.

TOTAL NO.

| | | | | | | | | | | | | | | PROJE | CT NO. | SHEET NO. | TOTAL NO. |
|--|-----------|------------|-----------|---|--------|-------|---------|--------|----|---|--------------|------------------------------|-------------------------------|------------------------------|--------------------------------|--------------------|---------------------------------|
| ΤH | ERI | OW | PLA | STIC AND | | P | Α | IN | I | QUA | NTIT | IES | | 2022CPT.0 | 6.15.10781.1 | | ! |
| | | | | | | | | | | 4413000000-E | 4457000000-N | 46850 | 00000-E | 4695000000-E | 4700000000-E | 4720000 | 0000-E |
| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | NE TYPE | LENGTH | M | WORK ZONE ADVANCE/GENERAL WARNING SIGNING | | 4" X 90 M WHITE THERMO | 4" X 90 M YELLOW THERMO | 8" X 90 M WHITE THERMO | 12" X 90 M YELLOW THERMO | THERMO RXR 90 M | THERMO MSG SCHOOL 90 M |
| | | | | | | | / | MI | FT | SF | LS | LF | LF | LF | LF | EA | EA |
| 2022CPT.06.15.10781.1 | Robeson | 1 | NC 71 - A | SCL (MP 2.33) TO MP 11.35 | 1 | 2 | 2WU | 9.02 | 24 | 1,010 | 1 | 103,688 | 93,265 | 435 | 960 | | |
| | | 1 | NC 71 - B | MP 11.35 TO MP 12.05 | 1 | 2 | 2WU | 0.70 | 35 | 78 | | | | | | 2 | |
| | | 1 | NC 71 - C | MP 12.05 TO NC 211 (MP 12.13) | 2 | 2 | 2WU | 0.08 | 39 | 126 | | | | | | | |
| TOTAL | FOR MAP N | 0. 1 | | | | | | 9.80 | | 1,214 | 1 | 103,688 | 93,265 | 435 | 960 | 2 | |
| 2022CPT.06.15.10781.1 | Robeson | 2 | NC 41 | FROM CJ EAST OF SR 1004 TO BLADEN CL | 1 | 2 | 2WU | 5.00 | 28 | 560 | | 59,136 | 52,800 | | | | 72 |
| TOTAL | FOR MAP N | O. 2 | | | | | | 5.00 | | 560 | | 59,136 | 52,800 | | | | 72 |
| TOTAL FOR BROLL | NO 2022CE | T 06 45 40 | 701 1 | | | | | 14.80 | | 1,774 | 1 | 162,824 | 146,065 | 435 | 960 | 2 | 72 |
| TOTAL FOR PROJ NO. 2022CPT.06.15.10781.1 | | | | | | | | | | 308,889 | | 8,889 | | | 74 | 4 | |
| | | | | | | | | | | | | | | | | | |
| GP | AND TOTAL | | | | | | | 14.80 | | 1,774 | 1 | 162,824 | 146,065 | 435 | 960 | 2 | 72 |
| GK | AND IOIAL | 1 | | | | | | | | | | 308 | 8,889 | | | 74 | 4 |

| | | | | | | | | | | | 4725000000-l | E | | 481000 | 00000-E | 4890000000-E | 49000 | 00000-N |
|---------------------------------------|--|------------|---|-------------------------------|--------|-------|----------|--------|-------|-------------------------|-------------------------|----------------------------------|-----------------------------|-------------------|--------------------|-------------------------------|-------|-------------------------------|
| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | ANE TYPE | LENGTH | WIDTH | THERMO LT ARROW 90 M | THERMO RT ARROW 90 M | THERMO MERGE ARROW 90 M | THERMO STR ARROW 90 M | 4" WHITE PAINT | 4" YELLOW PAINT | 24" X 90 M WHITE THERMO | & RED | YELLOW & YELLOW MARKERS |
| | | | | | | | ב | MI | FT | EA | EA | EA | EA | LF | LF | LF | EA | EA |
| 2022CPT.06.15.10781.1 | Robeson | 1 | NC 71 - A | SCL (MP 2.33) TO MP 11.35 | 1 | 2 | 2WU | 9.02 | 24 | 13 | 5 | 1 | | 103,688 | 93,265 | 63.00 | 60 | 800 |
| | | 1 | NC 71 - B | MP 11.35 TO MP 12.05 | 1 | 2 | 2WU | 0.70 | 35 | 15 | 7 | 3 | 2 | | | | | |
| | | 1 | NC 71 - C | MP 12.05 TO NC 211 (MP 12.13) | 2 | 2 | 2WU | 0.08 | 39 | | | | | | | | | |
| TOTAL | FOR MAP N | 0.1 | | | | | | 9.80 | | 28 | 12 | 4 | 2 | 103,688 | 93,265 | 63.00 | 60 | 800 |
| 2022CPT.06.15.10781.1 Robeson 2 NC 41 | | NC 41 | FROM CJ EAST OF SR 1004 TO BLADEN CL | 1 | 2 | 2WU | 5.00 | 28 | | | | | 59,136 | 52,800 | 700.00 | | 370 | |
| TOTAL | FOR MAP N | O. 2 | | | | | | 5.00 | | | | | | 59,136 | 52,800 | 700 | | 370 |
| TOTAL FOR PROJ | NO 2022CE | T 00 45 40 | 704.4 | | | | | 14.80 | | 28 | 12 | 4 | 2 | 162,824 | 146,065 | 763 | 60 | 1,170 |
| IOTAL FOR PROJ | TOTAL FOR PROJ NO. 2022CPT.06.15.10781.1 | | | | | | | | | 46 | | | | 308,889 | | 1,23 | | 230 |
| | | | | | | | | | | | | | | | | | | |
| CB | AND TOTAL | | | | | | | 14.80 | | 28 | 12 | 4 | 2 | 162,824 | 146,065 | 763 | 60 | 1,170 |
| GRA | AND IOIAL | | | | | | | | | | 46 | | | 308 | 3,889 | 1,230 | | |