

0201697

|                  |                  |           |              |
|------------------|------------------|-----------|--------------|
| STATE            | PROJECT NO.      | SHEET NO. | TOTAL SHEETS |
| N.C.             | IOCR.10601.4,ETC | 1         | 13           |
| F.A. PROJECT NO. |                  |           |              |



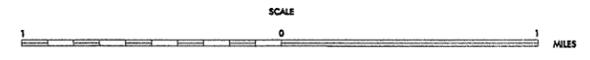
ENLARGED MUNICIPAL AND SUBURBAN AREAS

# MECKLENBURG COUNTY

## NORTH CAROLINA

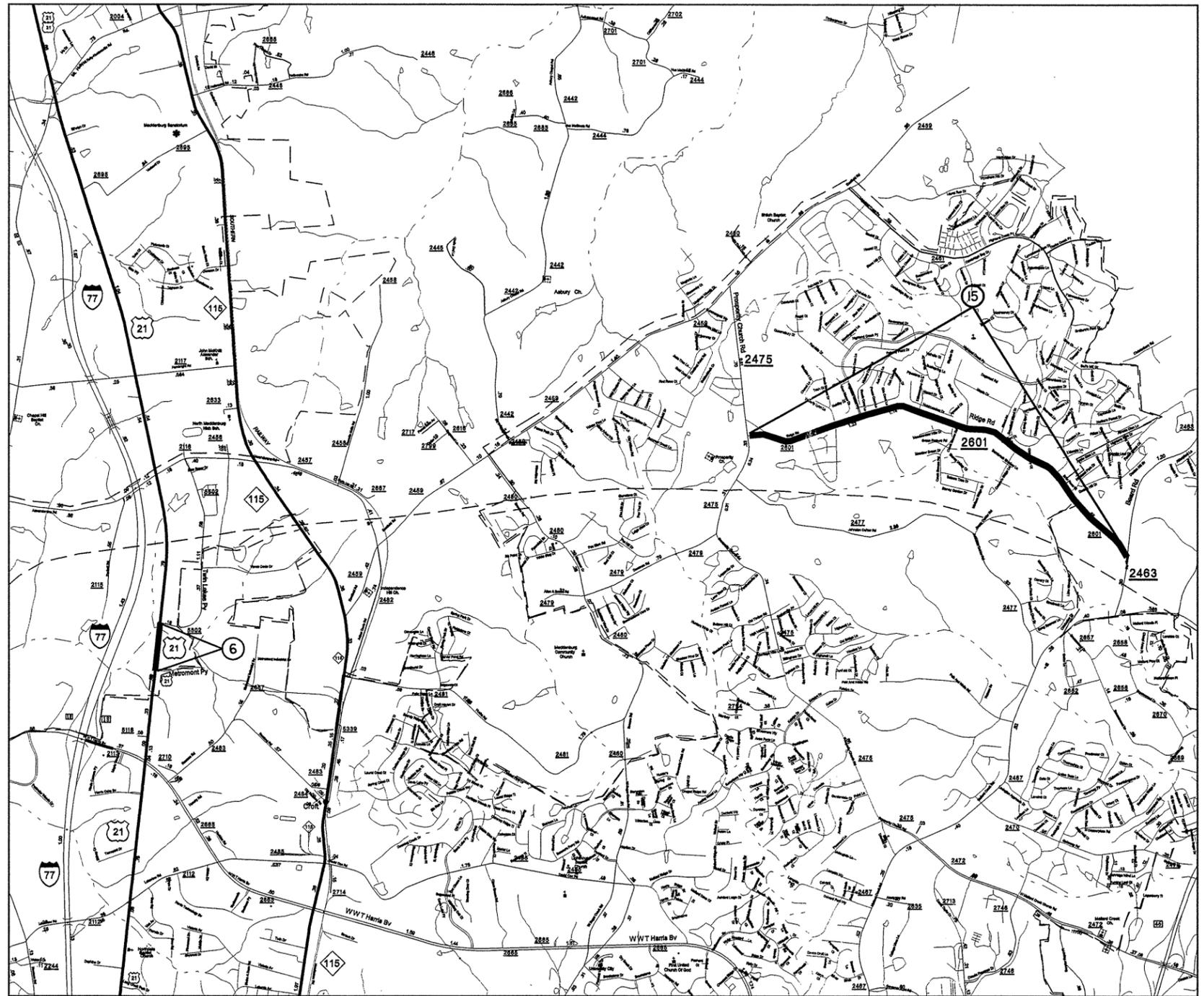
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 FEDERAL HIGHWAY ADMINISTRATION



| MAP # | ROUTE                     | DESCRIPTION  |
|-------|---------------------------|--|
| 1     | NC 160 (WEST BLVD)        | FROM OLD STEELE CREEK RD. TO US 521 (BILLY GRAHAM PKWY)      |
| 10    | NC 27 WB (FREEDOM DR)     | FROM ASHLEY RD. TO ALLEGHANY RD.                             |
| 11    | NC 27 EB (FREEDOM DR)     | FROM ASHLEY RD. TO ALLEGHANY RD.                             |
| 12    | SR 1625 (SAM WILSON RD.)  | FROM MOORE CHAPEL RD. (SR 1601) TO PERFORMANCE RD. (SR 1603) |
| 13    | SR 1603 (PERFORMANCE RD.) | FROM SAM WILSON RD. (SR 1625) TO MOORE CHAPLE RD. (SR 1601)  |

|                  |                 |           |              |
|------------------|-----------------|-----------|--------------|
| STATE            | PROJECT NO.     | SHEET NO. | TOTAL SHEETS |
| N.C.             | OCR.10601.4,ETC | 2         | 13           |
| F.A. PROJECT NO. |                 |           |              |



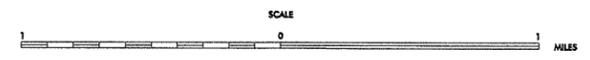
ENLARGED MUNICIPAL AND SUBURBAN AREAS

# MECKLENBURG COUNTY

## NORTH CAROLINA

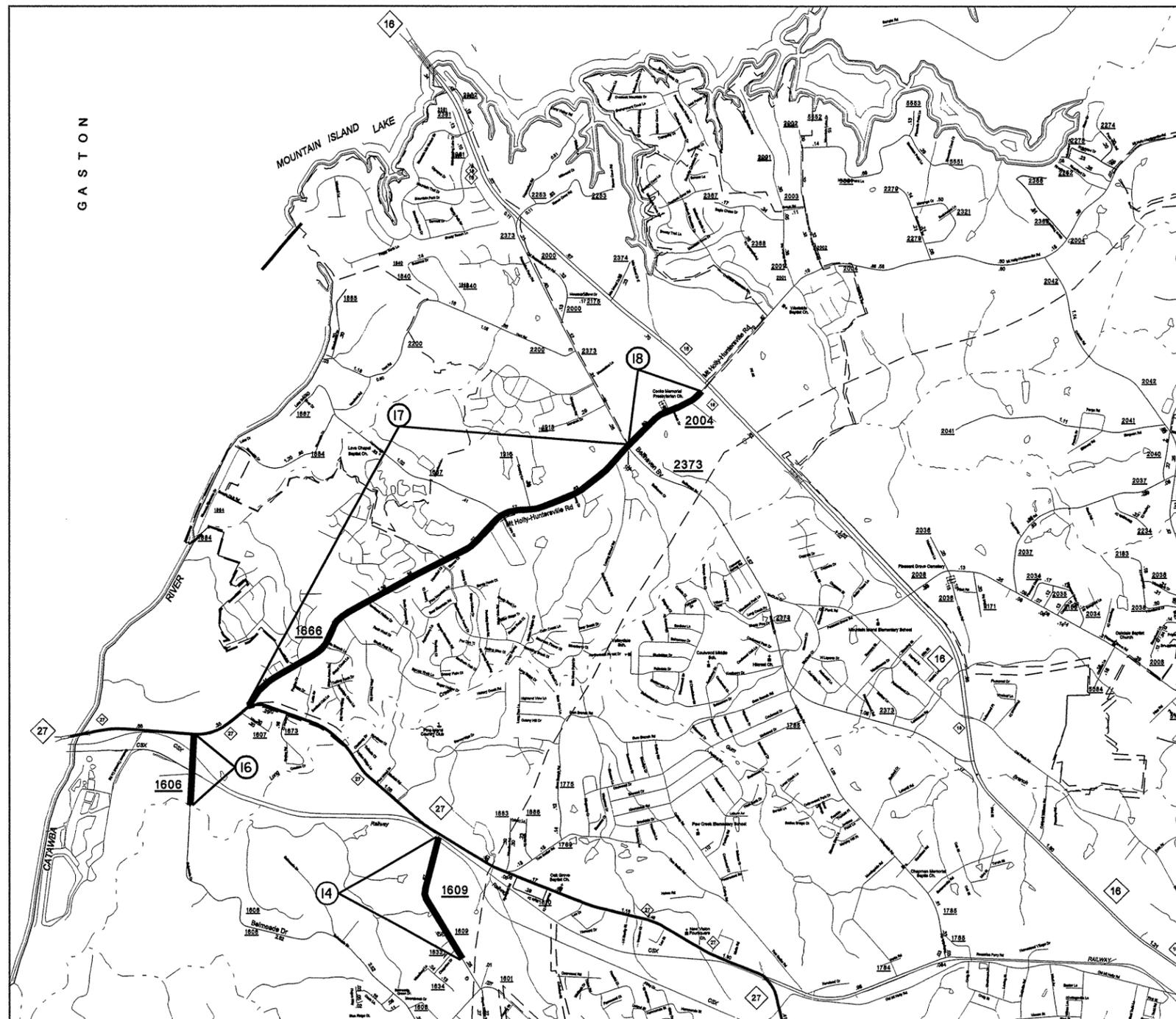
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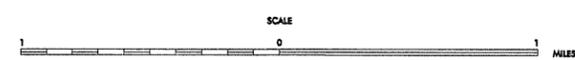


| MAP # | ROUTE               | DESCRIPTION  |
|-------|---------------------|--|
| 6     | NC 21               | FROM TWIN LAKES DR. TO THE PVT. JOINT NEAR METROMONT DR. |
| 15    | SR 2601 (RIDGE RD.) | FROM PROSPERITY CH. RD. (SR 2475) TO BEARD RD. (SR 2463) |

|                  |                  |           |              |
|------------------|------------------|-----------|--------------|
| STATE            | PROJECT NO.      | SHEET NO. | TOTAL SHEETS |
| N.C.             | 10CR.10601.4,ETC | 3         | 13           |
| F.A. PROJECT NO. |                  |           |              |

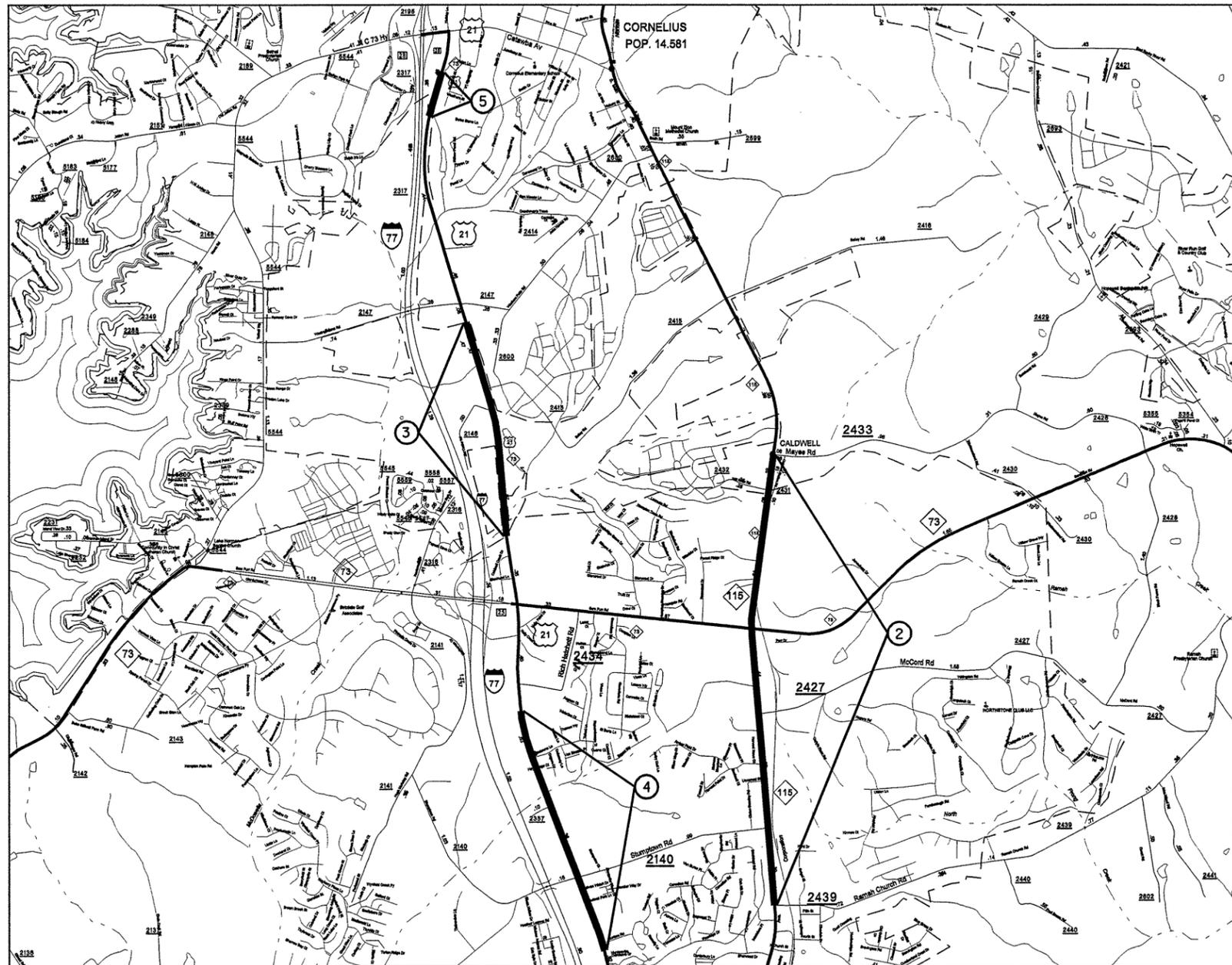


ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**MECKLENBURG COUNTY**  
 NORTH CAROLINA  
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 FEDERAL HIGHWAY ADMINISTRATION



| MAP # | ROUTE                                | DESCRIPTION   |
|-------|--------------------------------------|---|
| 14    | SR 1609 (RHYNE RD.)                  | FROM MT. HOLLY RD. (SR 1784) TO PVT. JOINT @ I-485            |
| 16    | SR 1606 (BELMEADE RD.)               | FROM NC 27 TO BRIDGE.   |
| 17    | SR 1666 (MT. HOLLY HUNTERSVILLE RD.) | FROM NC 27 (MT HOLLY RD.) TO BELLHAVEN BLVD. (SR 2373)        |
| 18    | SR 2004 (MT. HOLLY RD.)              | FROM BELLHAVEN BLVD. (SR 2373) TO PVT. JOINT 1000' FROM NC 16 |

|                  |                 |           |              |
|------------------|-----------------|-----------|--------------|
| STATE            | PROJECT NO.     | SHEET NO. | TOTAL SHEETS |
| N.C.             | OCR.10601.4,ETC | 4         | 13           |
| F.A. PROJECT NO. |                 |           |              |



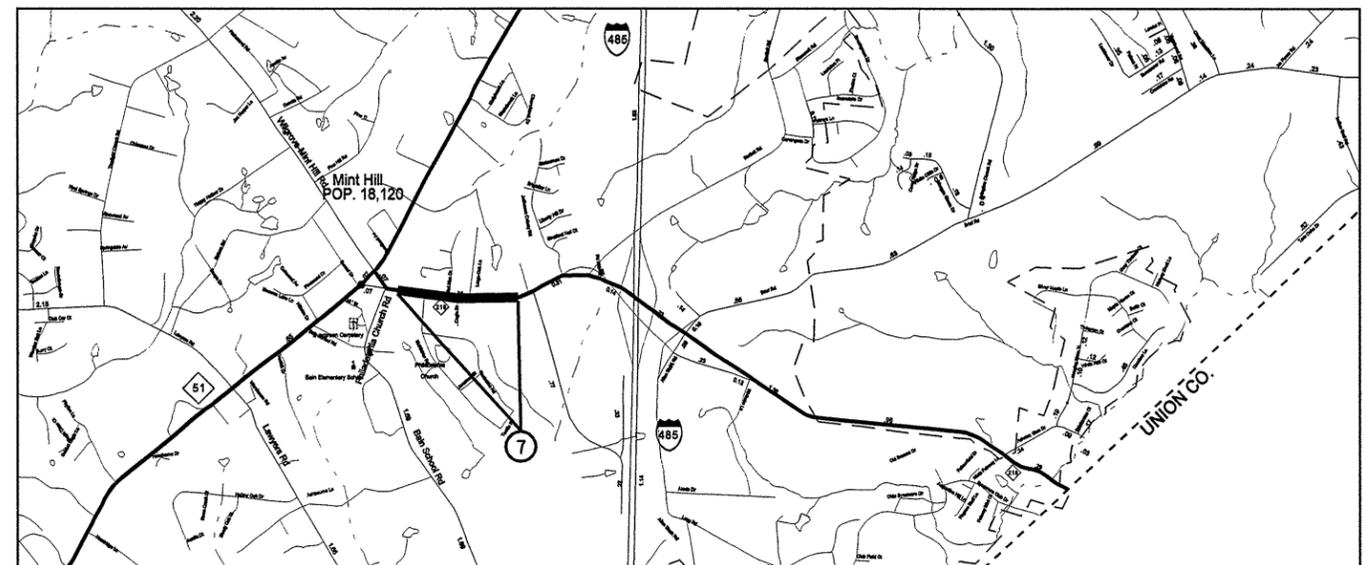
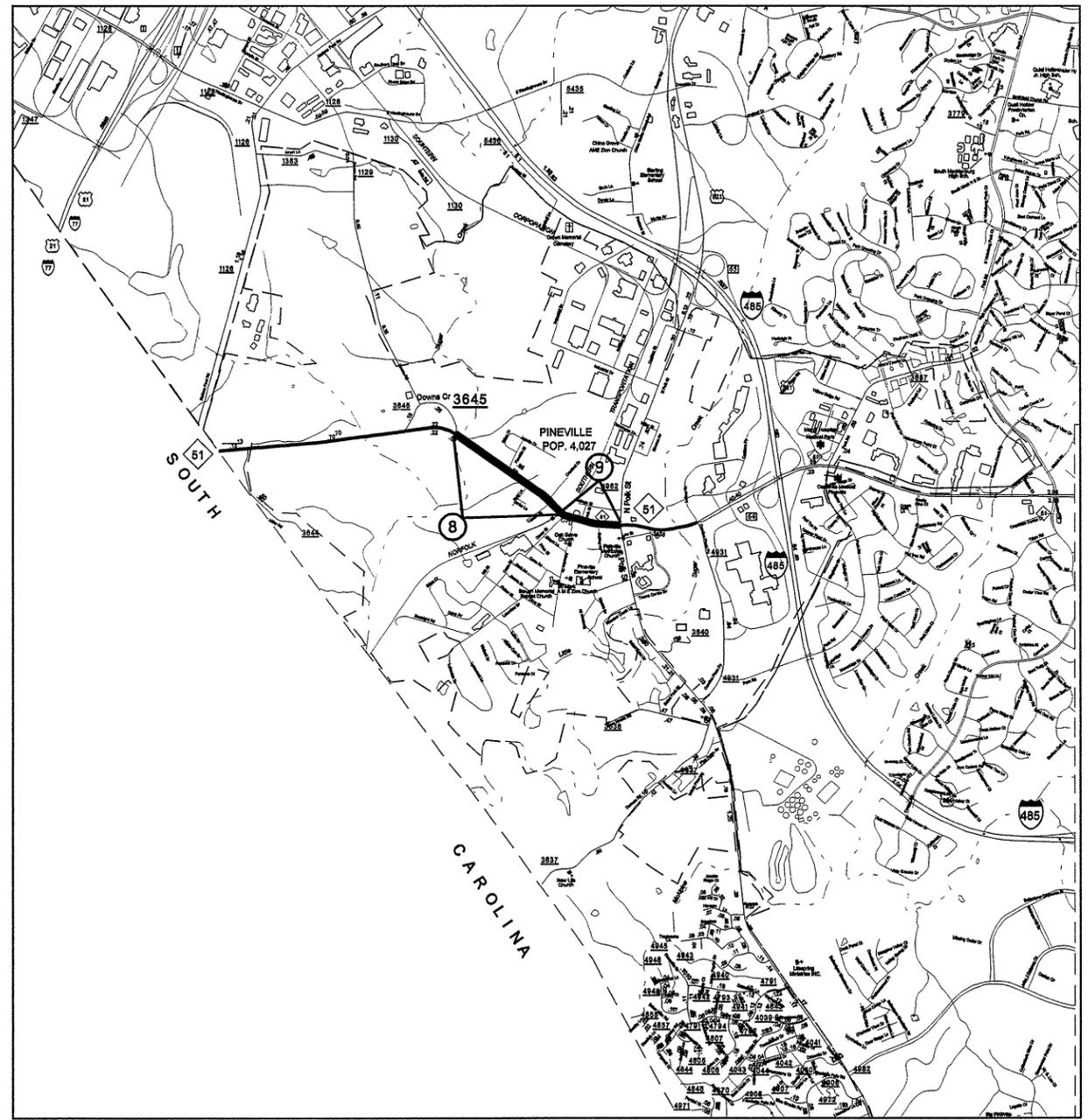
ENLARGED MUNICIPAL AND SUBURBAN AREAS  
**MECKLENBURG COUNTY**

NORTH CAROLINA  
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 FEDERAL HIGHWAY ADMINISTRATION



| MAP # | ROUTE  | DESCRIPTION   |
|-------|--------|---|
| 2     | NC 115 | FROM RAMAH CH. RD. (SR 2439) TO MAYES RD. (SR 2433)   |
| 3     | NC 21  | FROM CORNELIUS CL TO HUNTERSVILLE CL.   |
| 4     | NC 21  | FROM PVT. JOINT @ RICH HATCHET RD. (SR 2434) TO PVT. JOINT 0.4 MILE SOUTH OF STUMPTON RD. (SR 2140) |
| 5     | NC 21  | FROM PVT. JOINT 1000' SOUTH OF CATAWBA AVE. TO THE END OF THE BST PAVED SHLD.                       |

|                  |                  |           |              |
|------------------|------------------|-----------|--------------|
| STATE            | PROJECT NO.      | SHEET NO. | TOTAL SHEETS |
| N.C.             | 10CR.10601.4.ETC | 5         | 13           |
| F.A. PROJECT NO. |                  |           |              |



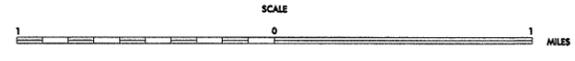
ENLARGED MUNICIPAL AND SUBURBAN AREAS

# MECKLENBURG COUNTY

## NORTH CAROLINA

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 FEDERAL HIGHWAY ADMINISTRATION



| MAP # | ROUTE  | DESCRIPTION  |
|-------|--------|--|
| 7     | NC 218 | FROM 600' EAST OF PHILADELPHIA CH. RD. (SR 1004) TO THE PVT. JOINT |
| 8     | NC 51  | FROM THE RR TRACKS TO DOWN CIRCLE RD. (SR 3645)                    |
| 9     | NC 51  | FROM N. POLK ST. TO THE RR TRACKS                                  |

|                  |                  |           |              |
|------------------|------------------|-----------|--------------|
| STATE            | PROJECT NO.      | SHEET NO. | TOTAL SHEETS |
| N.C.             | IOCR.10601.4,ETC | 6         | 13           |
| F.A. PROJECT NO. |                  |           |              |



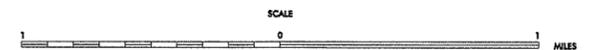
ENLARGED MUNICIPAL AND SUBURBAN AREAS

# MECKLENBURG COUNTY

## NORTH CAROLINA

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FEDERAL HIGHWAY ADMINISTRATION

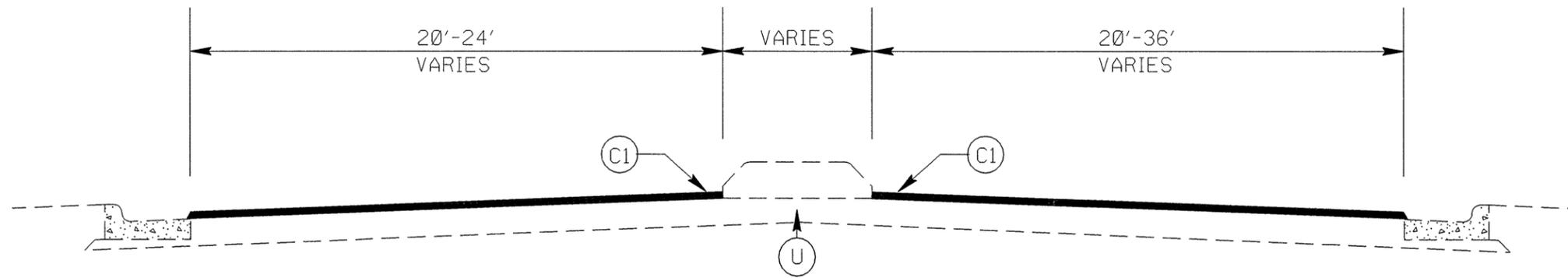


| MAP # | ROUTE                 | DESCRIPTION                       |
|-------|-----------------------|-----------------------------------|
| 19    | SR 2623 (TRAILER DR.) | FROM GRAHAM ST. TO ROTARY DR.     |
| 20    | SR 2940 (EASTWAY DR.) | FROM CENTRAL AVE. TO BISCAYNE DR. |
| 21    | SR 2940 (EASTWAY DR.) | FROM TRYON RD. TO SHAMROCK DR.    |





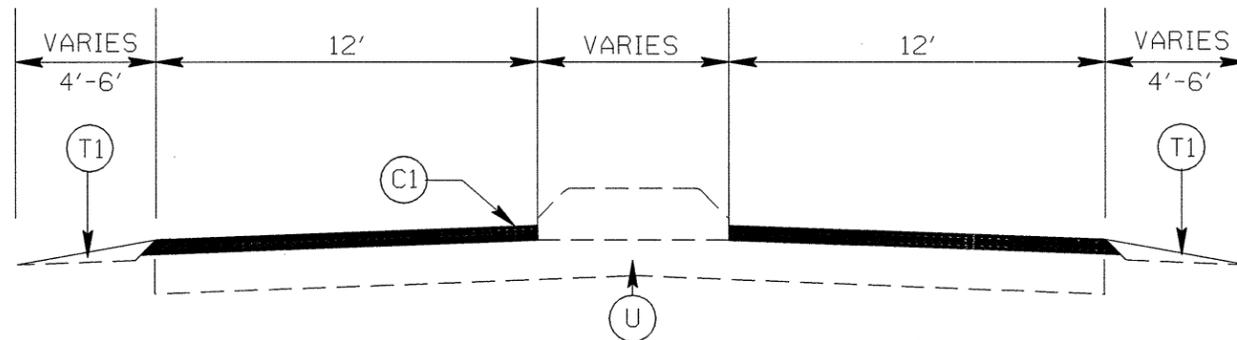
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|------------------|------------------|-----------|--------------|
| STATE            | PROJECT NO.      | SHEET NO. | TOTAL SHEETS |
| N.C.             | 10CR10601.4, etc | 9         | 13           |
| F.A. PROJECT NO. |                  |           |              |



TYPICAL SECTION NO. 9

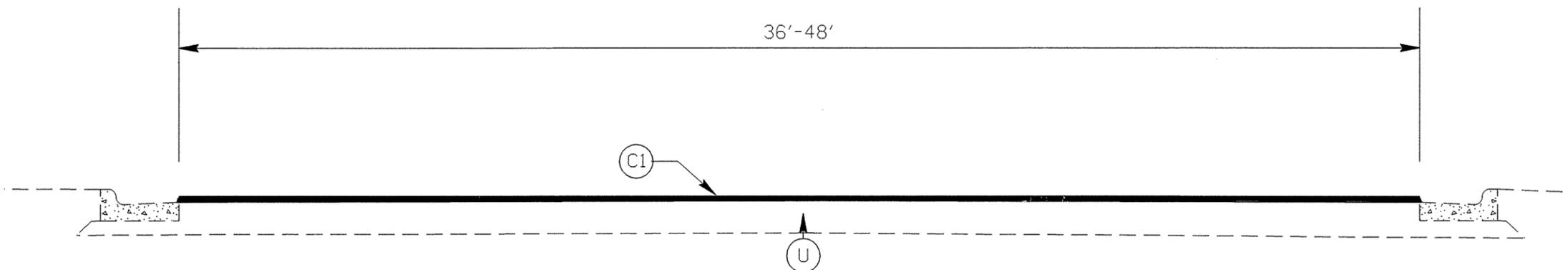
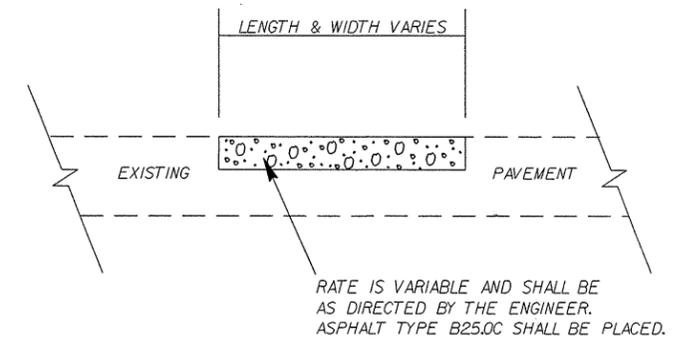
PAVEMENT SCHEDULE

|      |   |
|------|---|
| (C1) | PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.                     |
| (C2) | PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS |
| (E1) | PROP. APPROX. 8" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS   |
| (T1) | SHOULDER RECONSTRUCTION   |
| (T2) | SHOULDER CONSTRUCTION   |
| (U)  | EXISTING PAVEMENT   |



TYPICAL SECTION NO. 8

PATCHING DETAIL



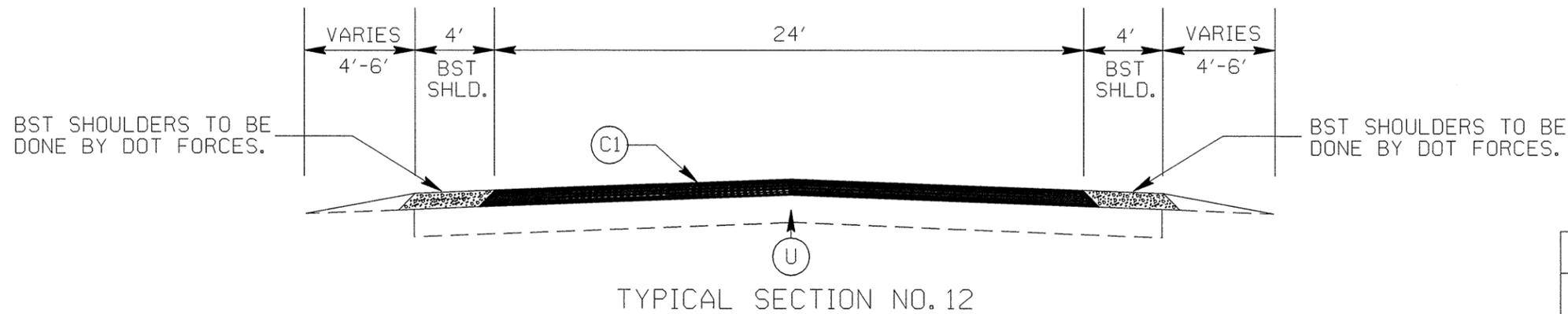
TYPICAL SECTION NO. 7

NOTES: ON MAP #12 USE TYPICAL #11 WHERE THE EXISTING PAVEMENT IS 20'.  
WHERE THE PAVEMENT IS GREATER THAN 22' NO WIDENING WILL BE NECESSARY.

MECKLENBURG COUNTY RESURFACING

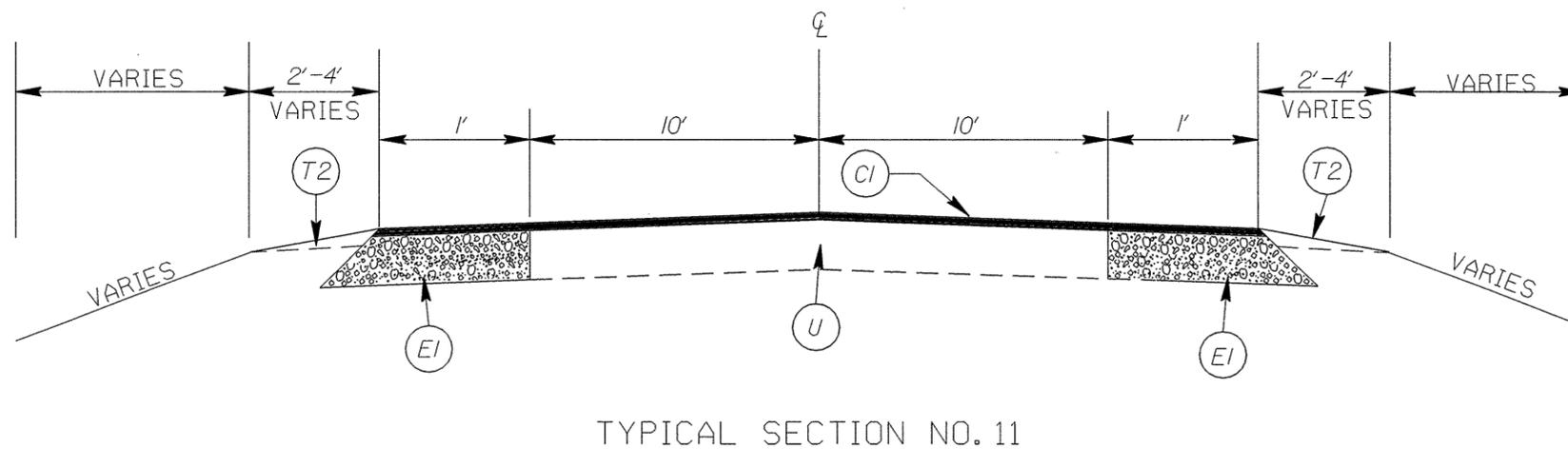
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| SCALE     | -1A-  |  | REVISIONS |
| DATE      | 10/06 |  |           |
| DWG. BY   | TWB   |  |           |
| DESIGN BY |       |  |           |
| APPROVED  |       |  |           |

|                  |                  |           |              |
|------------------|------------------|-----------|--------------|
| STATE            | PROJECT NO.      | SHEET NO. | TOTAL SHEETS |
| N.C.             | 10CR10601.4, etc | 10        | 13           |
| F.A. PROJECT NO. |                  |           |              |

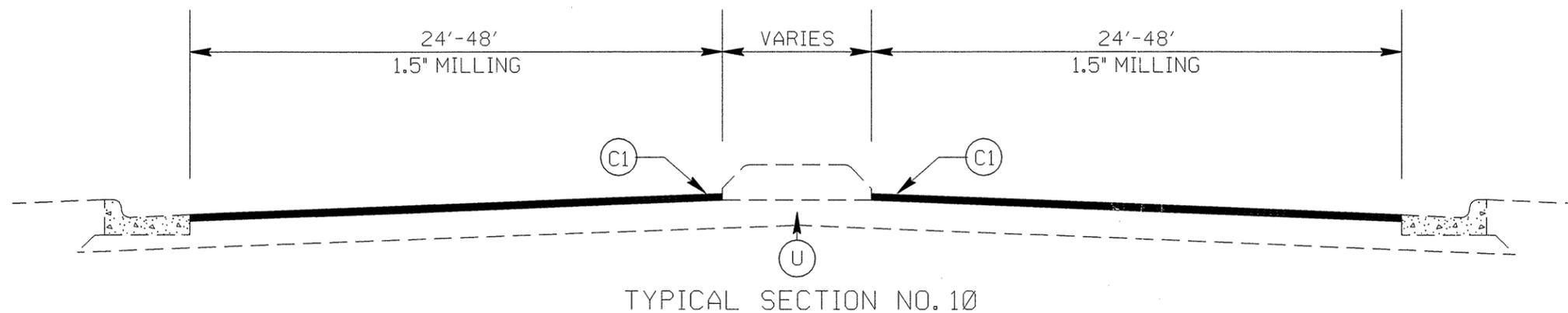
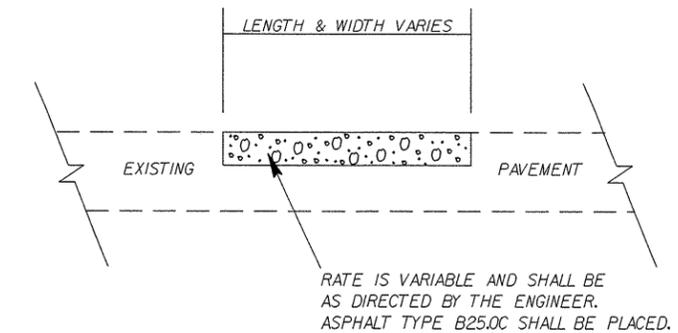


PAVEMENT SCHEDULE

|      |   |
|------|---|
| (C1) | PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.                     |
| (C2) | PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS |
| (E1) | PROP. APPROX. 8" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS   |
| (T1) | SHOULDER RECONSTRUCTION   |
| (T2) | SHOULDER CONSTRUCTION   |
| (U)  | EXISTING PAVEMENT   |



PATCHING DETAIL



NOTES: ON MAP #12 USE TYPICAL #11 WHERE THE EXISTING PAVEMENT IS 20'.  
WHERE THE PAVEMENT IS GREATER THAN 22' NO WIDENING WILL BE NECESSARY.

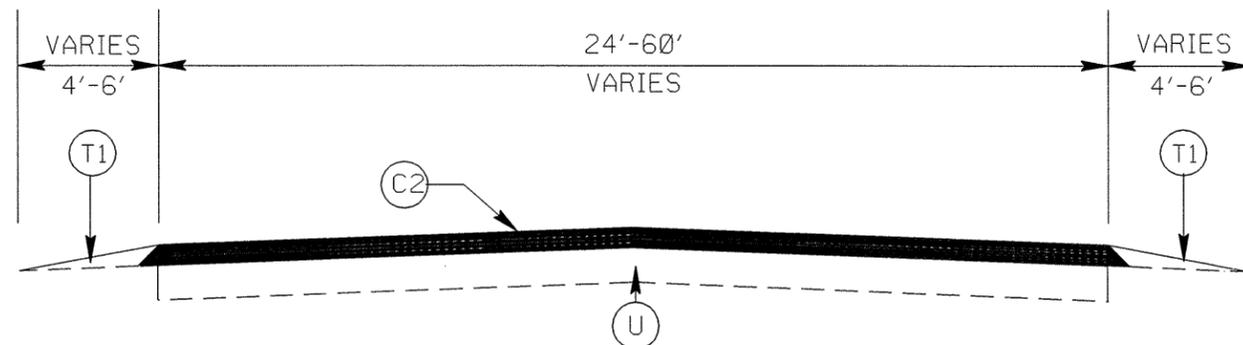
MECKLENBURG COUNTY RESURFACING

|           |       |
|-----------|-------|
| SCALE     | -NA-  |
| DATE      | 10/06 |
| DWG. BY   | TWB   |
| DESIGN BY |       |
| APPROVED  |       |



| REVISIONS |  |
|-----------|--|
|           |  |
|           |  |
|           |  |

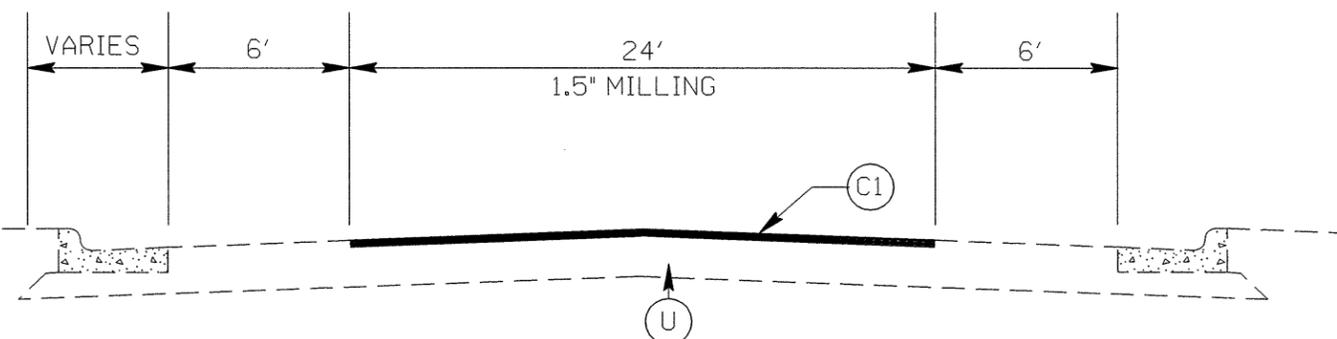
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TYPICAL SECTION NO. 15

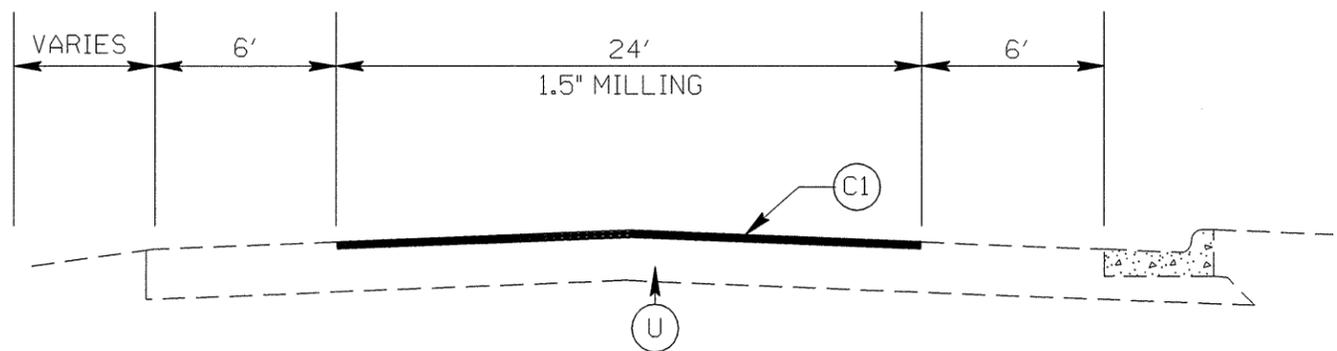
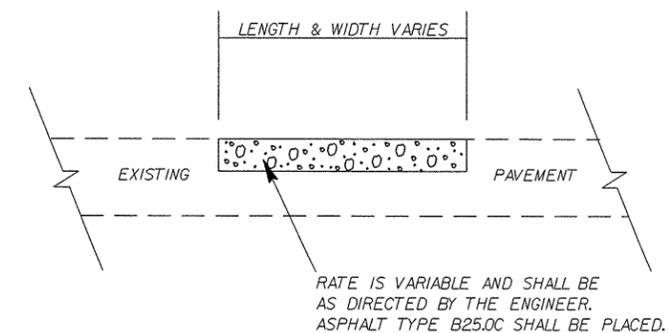
PAVEMENT SCHEDULE

|      |   |
|------|---|
| (C1) | PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.                     |
| (C2) | PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS |
| (E1) | PROP. APPROX. 8" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS   |
| (T1) | SHOULDER RECONSTRUCTION   |
| (T2) | SHOULDER CONSTRUCTION   |
| (U)  | EXISTING PAVEMENT   |



TYPICAL SECTION NO. 14

PATCHING DETAIL



TYPICAL SECTION NO. 13

NOTES: ON MAP #12 USE TYPICAL #11 WHERE THE EXISTING PAVEMENT IS 20'.  
WHERE THE PAVEMENT IS GREATER THAN 22' NO WIDENING WILL BE NECESSARY.

MECKLENBURG COUNTY RESURFACING

|           |       |  |           |
|-----------|-------|--|-----------|
| SCALE     | -NA-  |  | REVISIONS |
| DATE      | 10/06 |  |           |
| DWG. BY   | TWB   |  |           |
| DESIGN BY |       |  |           |
| APPROVED  |       |  |           |

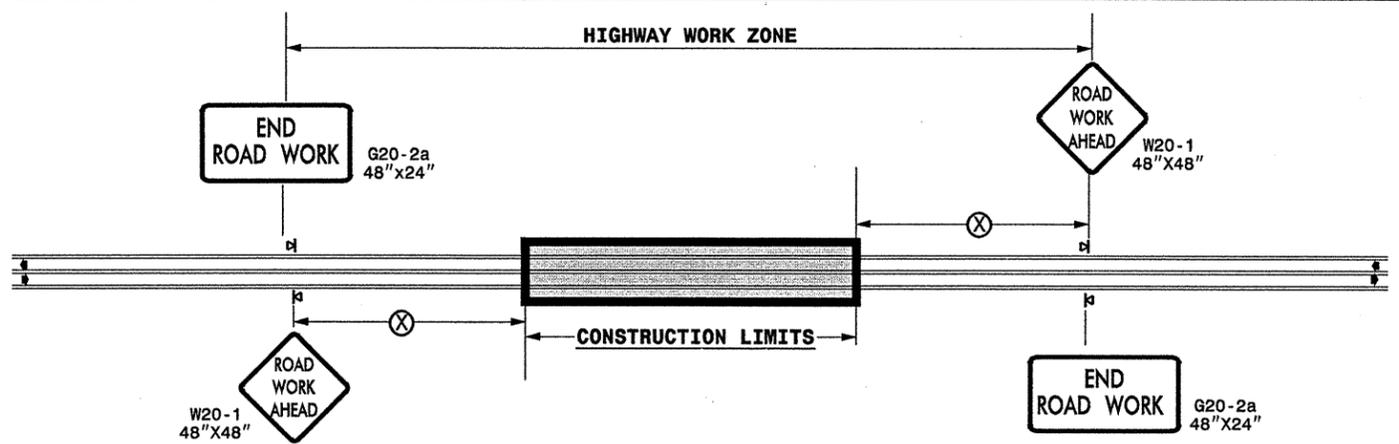
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| PROJECT NO.<br>10CR10601.4, 10CR.10601.6<br>10CR.10601.5, ETC | SHEET NO.<br>12 | TOTAL NO.<br>13 |
|---|-----------------|-----------------|

## SUMMARY OF QUANTITIES

| PROJECT NO                 | COUNTY      | MAP NO | ROUTE                               | DESCRIPTION  | TYP NO | LENGTH MI    | WIDTH FT | INCIDENTAL STONE BASE TONS | SHOULDER CONSTRUCTION SMI | SHOULDER RECONSTRUCTION SMI | DITCHING LF | 1 1/2" MILLING SY | INCIDENTAL MILLING SY | BASE COURSE, B25.0C TONS | SURFACE COURSE, S9.5C TONS | LEVELING COURSE, S9.5C TONS | PG 64-22 PLANT MIX TONS | PG 70-22 PLANT MIX TONS | PATCHING EXISTING PAVEMENT TONS | 6" DRIVEWAYS SY | ADJ OF MAN-HOLES EA | ADJ. OF METER OR VALVE BOX EA | TEMP SILT FENCE LF | STONE FOR EROSION CONTROL, CLASS B TN | SEDIMENT CONTROL STONE TN | SEED & MULCHING AC |
|----------------------------|-------------|--------|-------------------------------------|--|--------|--------------|----------|----------------------------|---------------------------|-----------------------------|-------------|-------------------|-----------------------|--------------------------|----------------------------|-----------------------------|-------------------------|-------------------------|---------------------------------|-----------------|---------------------|-------------------------------|--------------------|---------------------------------------|---------------------------|--------------------|
| 10CR.10601.4               | Mecklenburg | 1      | NC 160 (WEST BLVD.)                 | FROM OLD STEELE CREEK RD. TO US 521 (BILLY GRAHAM PKWY)  | 2      | 0.86         | 48       |                            |                           |                             |             | 24,518            |                       |                          | 2,247                      |                             |                         | 135                     | 150                             |                 |                     |                               |                    |                                       |                           |                    |
| 10CR.10601.6               |             | 2      | NC 115                              | FROM RAMAH CHURCH RD. (SR 2439) TO MAYES RD. (SR 2433)   | 15     | 2.3          | 24       | 69                         |                           | 4.6                         |             |                   | 110                   |                          | 6,717                      |                             |                         | 403                     | 200                             |                 |                     | 2                             |                    |                                       |                           | 2.8                |
| 10CR.10601.5               |             | 3      | US 21                               | FROM CORNELIUS CL TO HUNTERVILLE CL  | 3&4    | 0.9          | 24       | 27                         |                           | 1.8                         |             |                   | 110                   |                          | 1,438                      | 250                         |                         | 103                     | 250                             |                 |                     |                               |                    |                                       |                           | 1.1                |
| 10CR.10601.7               |             | 4      | US 21                               | FROM PVT. JOINT@ RICH HATCHET RD. (SR 2434) TO PVT. JOINT 0.4 MILE SOUTH OF STUMPTON RD. (SR 2140) | 3      | 1.3          | 24       | 39                         |                           | 2.6                         |             |                   | 110                   |                          | 2,069                      | 325                         |                         | 145                     | 325                             |                 | 1                   |                               |                    |                                       |                           | 2.6                |
| 10CR.10601.8               |             | 5      | US 21                               | FROM PVT. JOINT 1000' SOUTH OF CATAWBA AVE. TO END OF BST PAVED SHOULDER                           | 12     | 0.7          | 24       | 21                         |                           |                             |             |                   | 110                   |                          | 900                        | 200                         |                         | 67                      | 200                             |                 |                     |                               |                    |                                       |                           |                    |
| 10CR.10601.9               |             | 6      | US 21                               | FROM TWIN LAKES DR. TO THE PVT. JOINT NEAR METROMONT DR.   | 3      | 0.2          | 36       | 6                          |                           | 0.4                         |             |                   | 150                   |                          | 374                        | 75                          |                         | 27                      | 75                              |                 |                     |                               |                    |                                       |                           | 0.2                |
| 10CR.10601.10              |             | 7      | NC 218                              | FROM PVT. JOINT 600' EAST OF PHILADELPHIA CHURCH RD. (SR 1004) TO PVT. JOINT@ I-485 PROJECT        | 3      | 0.4          | 20       | 12                         |                           |                             |             |                   | 110                   |                          | 417                        | 150                         |                         | 35                      | 150                             |                 |                     |                               |                    |                                       |                           | 0.5                |
| 10CR.10601.11              |             | 8      | NC 51                               | FROM RR TRACKS TO DOWN CIRCLE RD. (SR 3645)  | 5      | 0.54         | 48       |                            |                           |                             |             | 15,200            |                       |                          | 1,397                      |                             |                         | 84                      | 150                             |                 |                     |                               |                    |                                       |                           |                    |
| 10CR.10601.12              |             | 9      | NC 51                               | FROM N POLK ST. TO RR TRACKS   | 1&5    | 0.3          | 60       |                            |                           |                             |             | 10,560            |                       |                          | 960                        |                             |                         | 58                      | 75                              |                 |                     |                               |                    |                                       |                           |                    |
| 10CR.10601.13              |             | 10     | NC 27 WB (FREEDOM DR.)              | FROM ASHLEY DR. TO ALLEGHANY RD.   | 1      | 0.6          | 38       |                            |                           |                             |             | 13,500            |                       |                          | 1,394                      |                             |                         | 84                      | 100                             |                 |                     |                               |                    |                                       |                           |                    |
| 10CR.10601.14              |             | 11     | NC27 EB (FREEDOM DR.)               | FROM ASHLEY DR. TO ALLEGHANY RD.   | 1      | 0.6          | 38       |                            |                           |                             |             | 13,500            |                       |                          | 1,305                      |                             |                         | 78                      | 150                             |                 |                     |                               |                    |                                       |                           |                    |
| <b>TOTAL FOR PRIMARY</b>   |             |        |                                     |  |        | <b>8.1</b>   |          | <b>174</b>                 |                           | <b>10.2</b>                 |             | <b>77,278</b>     | <b>700</b>            |                          | <b>19,218</b>              | <b>1,000</b>                |                         | <b>1,219</b>            | <b>1,825</b>                    |                 | <b>1</b>            | <b>2</b>                      |                    |                                       |                           | <b>7.2</b>         |
| 10CR.20601.25              | Mecklenburg | 12     | SR 1625 (SAM WILSON RD.)            | FROM MOORE CHAPEL RD. (SR 1601) TO PERFORMANCE RD. (SR 1603)                                       | 6&11   | 1.0          | 22       | 30                         | 1.9                       | 0.1                         | 200         |                   | 110                   | 850                      | 1,460                      | 450                         | 37                      | 117                     | 350                             | 175             |                     | 3                             | 100                | 100                                   | 50                        | 2.4                |
| 10CR.20601.26              |             | 13     | SR 1603 (PERFORMANCE RD.)           | FROM SAM WILSON RD. (SR 1625) TO MOORE CHAPEL RD. (SR 1601)  | 3&4    | 1.0          | 22       | 30                         |                           | 2                           |             |                   | 110                   |                          | 1,302                      | 350                         |                         | 101                     | 350                             |                 |                     | 2                             |                    |                                       |                           | 1.2                |
| 10CR.20601.27              |             | 14     | SR 1609 (RHYNE RD.)                 | FROM MT. HOLLY RD. (NC 27) TO PVT. JOINT AT I-485  | 3      | 0.77         | 20       | 23                         |                           | 1.54                        |             |                   | 110                   |                          | 854                        | 300                         |                         | 71                      | 300                             |                 |                     |                               |                    |                                       |                           | 0.9                |
| 10CR.20601.28              |             | 15     | SR 2601 (RIDGE RD.)                 | FROM PROSPERITY CHURCH RD. (SR 2475) TO BEARD RD. (SR 2463)  | 3,4,7  | 2.37         | 20       | 71                         |                           | 4.74                        |             |                   | 110                   |                          | 3,555                      | 850                         |                         | 269                     | 850                             |                 | 9                   | 12                            |                    |                                       |                           | 2.8                |
| 10CR.20601.29              |             | 16     | SR 1606 (BELMEADE RD.)              | FROM NC 27 TO BRIDGE   | 3&8    | 0.35         | 20       | 11                         |                           | 0.7                         |             |                   | 110                   |                          | 391                        | 150                         |                         | 33                      | 150                             |                 |                     |                               |                    |                                       |                           | 0.4                |
| 10CR.20601.30              |             | 17     | SR 1666 (MT. HOLLY HUNTERVILLE RD.) | FROM NC 27 (MT. HOLLY RD.) TO BELLHAVEN BLVD. (SR 2373)  | 3&9    | 2.4          | 22       | 72                         |                           | 4.8                         |             |                   | 110                   |                          | 3,745                      | 850                         |                         | 280                     | 850                             |                 | 3                   | 7                             |                    |                                       |                           | 2.9                |
| 10CR.20601.31              |             | 18     | SR 2004 (MT. HOLLY RD.)             | FROM BELLHAVEN BLVD. (SR 2373) TO PVT. JOINT 1000' FROM NC 16                                      | 3      | 0.3          | 22       | 9                          |                           | 0.6                         |             |                   | 110                   |                          | 658                        | 75                          |                         | 44                      | 75                              |                 |                     |                               |                    |                                       |                           | 0.4                |
| 10CR.20601.32              |             | 19     | SR 2623 (TRAILER DR.)               | FROM GRAHAM ST. TO ROTARY DR.  | 13&14  | 1.2          | 36       |                            |                           | 0.3                         |             | 16,896            |                       |                          | 1,524                      | 300                         |                         | 111                     | 400                             |                 |                     |                               |                    |                                       |                           |                    |
| 10CR.20601.33              |             | 20     | SR 2940 (EASTWAY DR.)               | FROM CENTRAL AVE. TO BISCAYNE DR.  | 2      | 0.4          | 60       |                            |                           |                             |             | 15,080            |                       |                          | 1,717                      |                             |                         | 103                     | 100                             |                 |                     |                               |                    |                                       |                           |                    |
| 10CR.20601.34              |             | 21     | SR 2940 (EASTWAY DR.)               | FROM TRYON RD. TO SHAMROCK DR.   | 2&10   | 1.75         | 48       |                            |                           |                             |             | 57,280            |                       |                          | 5,198                      |                             |                         | 312                     | 250                             |                 |                     |                               |                    |                                       |                           |                    |
| <b>TOTAL FOR SECONDARY</b> |             |        |                                     |  |        | <b>11.54</b> |          | <b>246</b>                 | <b>1.9</b>                | <b>14.78</b>                | <b>200</b>  | <b>89,256</b>     | <b>770</b>            | <b>850</b>               | <b>20,404</b>              | <b>3,325</b>                | <b>37</b>               | <b>1,441</b>            | <b>3,675</b>                    | <b>175</b>      | <b>12</b>           | <b>24</b>                     | <b>100</b>         | <b>100</b>                            | <b>50</b>                 | <b>11.0</b>        |
| <b>GRAND TOTAL</b>         |             |        |                                     |  |        | <b>19.64</b> |          | <b>420</b>                 | <b>1.9</b>                | <b>24.98</b>                | <b>200</b>  | <b>166,534</b>    | <b>1,470</b>          | <b>850</b>               | <b>39,622</b>              | <b>4,325</b>                | <b>37</b>               | <b>2,660</b>            | <b>5,500</b>                    | <b>175</b>      | <b>13</b>           | <b>26</b>                     | <b>100</b>         | <b>100</b>                            | <b>50</b>                 | <b>18.2</b>        |



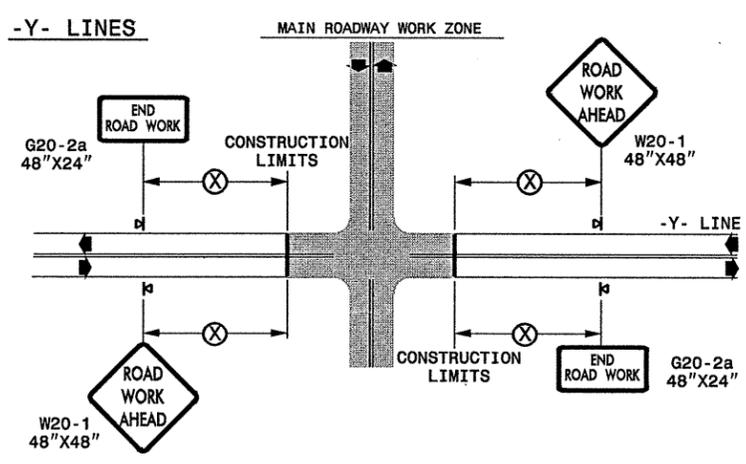
**TWO-WAY UNDIVIDED \*\* (L-LINES)**



| POSTED SPEED LIMIT (M.P.H.) | RECOMMENDED MINIMUM SIGN SPACING |
|-----------------------------|----------------------------------|
| ≤ 50                        | 500'                             |
| ≥ 55                        | 1000'                            |

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

**ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)**



**GENERAL NOTES**

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- \*\* TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

**LEGEND**

◀ PORTABLE SIGN

➡ DIRECTION OF TRAFFIC FLOW

DETAIL DRAWING  
FOR TWO-WAY UNDIVIDED  
WORK ZONE WARNING SIGNS

SHEET 1 OF 1

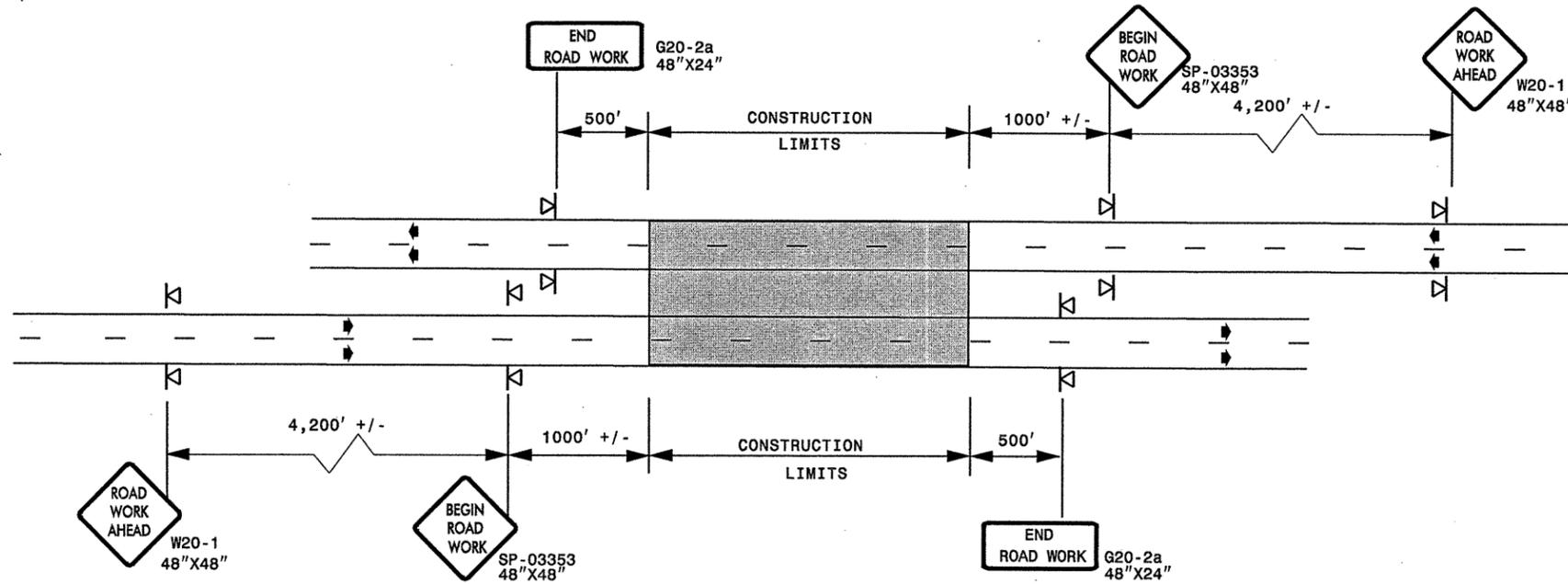
|                             |   |             |
|-----------------------------|---|-------------|
| APPROVED: _____ DATE: _____ | DETAIL DRAWING<br>FOR TWO-WAY UNDIVIDED<br>ADVANCED WORK ZONE WARNING SIGNS |             |
| SEAL                        | SCALE: NONE   | REVISIONS   |
|                             | DATE: _____   | 7-98 10/01  |
|                             | DESIGN BY: _____  | 10-98 03/04 |
|                             | REVIEWED BY: _____  | 01/01 11/04 |



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 psymore AT WZT2006-47

**ADVANCED WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)**

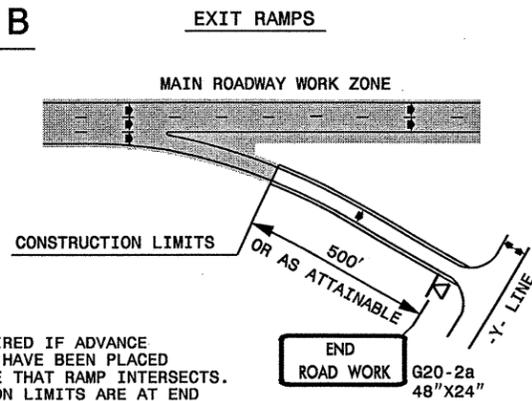
**DETAIL A**



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

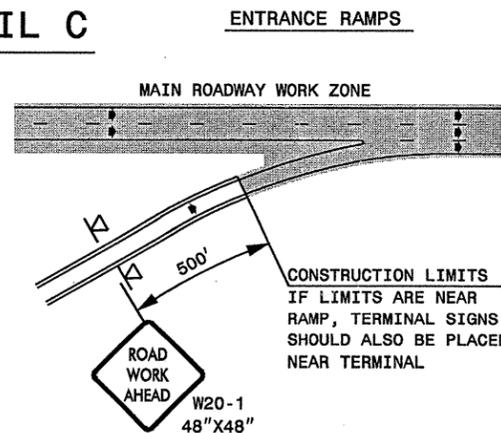
**ROADWAYS INTERSECTING ALONG FREEWAY WORK ZONE (Y-LINES)**

**DETAIL B**



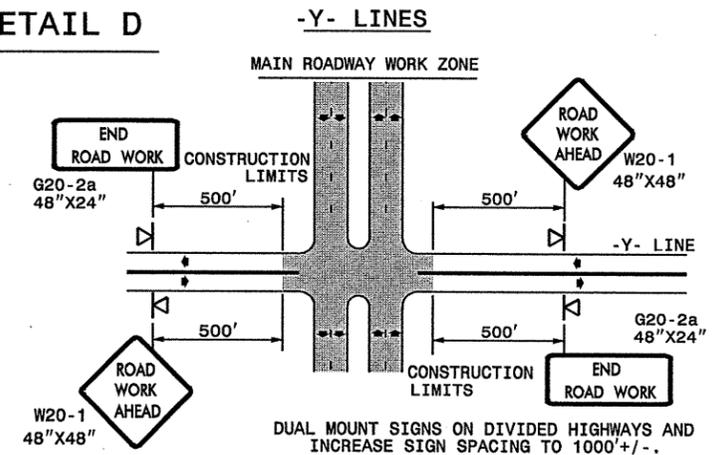
NOTE:  
SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

**DETAIL C**



CONSTRUCTION LIMITS IF LIMITS ARE NEAR RAMP, TERMINAL SIGNS SHOULD ALSO BE PLACED NEAR TERMINAL

**DETAIL D**



DUAL MOUNT SIGNS ON DIVIDED HIGHWAYS AND INCREASE SIGN SPACING TO 1000'+/-.

**GENERAL NOTES**

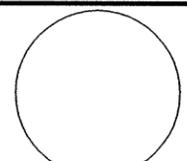
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- \*\* TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

**LEGEND**

- ◁ PORTABLE SIGN
- ➔ DIRECTION OF TRAFFIC FLOW

DETAIL DRAWING  
FOR FREEWAYS  
WORK ZONE WARNING SIGNS  
(SHORT-DURATION LANE CLOSURES)

SHEET 1 OF 1

|   |   |       |             |           |
|---|---|-------|-------------|-----------|
| APPROVED: _____ DATE: _____   | DETAIL DRAWING<br>FOR FREEWAYS<br>WORK ZONE WARNING SIGNS |       | SCALE: NONE |           |
| SEAL<br> |   |       | DATE: _____ | REVISIONS |
|   | DESIGN BY: _____  | 7-98  | 10/01       |           |
|   | REVIEWED BY: _____  | 10-98 | 03/04       |           |
|   |   | 01/01 | 11/04       |           |

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 psymore AT WZTC0621

### SP 03353

| <p>SIGN NUMBER: SP-03353<br/>TYPE: A<br/>QUANTITY: 1<br/>SIGN WIDTH: 4'-0"<br/>HEIGHT: 4'-0"<br/>TOTAL AREA: 16.0 Sq.Ft.<br/>BORDER TYPE: FLUSH<br/>RECESS: 0.59"<br/>WIDTH: 0.75"<br/>RADIUS: 1.38"<br/>NO. Z BARS: N/A<br/>LENGTH: N/A</p> <p>USE NOTES: 2, 4<br/>1. Legend and border shall be direct applied Type VII reflective sheeting.<br/>2. Legend and border shall be direct applied non-reflective sheeting.<br/>3. Shields shall be Type VII reflective sheeting on 0.032" (0.8mm) aluminum and demountable.<br/>4. Background shall be Type VII reflective sheeting.<br/>5. Background shall be Type I reflective sheeting.<br/>6. Center arrow(s) vertically on sign.<br/>7. Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:</p> | <p>BACKG COLOR: Fluorescent Orange<br/>COPY COLOR: Black</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> | SYMBOL | X   | Y  | WID | HT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <p>DESIGN BY: CL DOWNEY<br/>PROJECT ID: ALL PROJECTS<br/>CHECKED BY: CHECKED<br/>DIV: DIV<br/>STD #: W20-1<br/>DATE: Aug 20, 2003</p> |
|--|---|--------|-----|----|-----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| SYMBOL   | X   | Y      | WID | HT |     |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
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| Letter positions                            |     |     |     |     |      |      |  |  |  | Series/Size |
|---|-----|-----|-----|-----|------|------|--|--|--|-------------|
| Letter spacings are to start of next letter |     |     |     |     |      |      |  |  |  | Text Length |
| B   | E   | G   | I   | N   |      |      |  |  |  | C7          |
| 22.4  | 5.3 | 4.6 | 5.4 | 2.5 | 3.8  | 22.4 |  |  |  | 21.6        |
| R   | O   | A   | D   |     |      |      |  |  |  | C7          |
| 23.4  | 5   | 5.2 | 5.6 | 3.8 | 23.4 |      |  |  |  | 19.6        |
| W   | O   | R   | K   |     |      |      |  |  |  | C7          |
| 22.6  | 5.4 | 5.6 | 5.2 | 4   | 22.6 |      |  |  |  | 21.2        |

Spacing Factor is 1 unless specified otherwise  
FILENAME: SPEC3353X

#### GENERAL NOTES FOR SIGN SP-03353 "BEGIN ROAD WORK"

- SIGN SP-03353 "BEGIN ROAD WORK" ONLY APPLIES TO FULL CONTROL AND PARTIAL CONTROL OF ACCESS ROADWAYS
- WHEN USED, INSTALL SIGN SP-03353 "BEGIN ROAD WORK" ACCORDING TO DETAIL FOR FREEWAY WORK ZONE SIGNS

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

DETAIL DRAWING FOR  
WORK ZONE SIGNS  
BEGIN ROAD WORK

|   |   |  |             |           |             |       |          |       |            |  |              |  |
|---|---|--|-------------|-----------|-------------|-------|----------|-------|------------|--|--------------|--|
| <p>APPROVED: _____ DATE: _____</p> <div style="text-align: center; margin-top: 20px;"> <p>SEAL</p> </div> | <p>DETAIL DRAWING FOR<br/>ADVANCED WORK ZONE WARNING<br/>SIGN DESIGNS</p> | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>SCALE: NONE</td> <td>REVISIONS</td> </tr> <tr> <td>DATE: 08/03</td> <td>04/04</td> </tr> <tr> <td>DWG. BY:</td> <td>11/04</td> </tr> <tr> <td>DESIGN BY:</td> <td></td> </tr> <tr> <td>REVIEWED BY:</td> <td></td> </tr> </table> | SCALE: NONE | REVISIONS | DATE: 08/03 | 04/04 | DWG. BY: | 11/04 | DESIGN BY: |  | REVIEWED BY: |  |
| SCALE: NONE   | REVISIONS   |  |             |           |             |       |          |       |            |  |              |  |
| DATE: 08/03   | 04/04   |  |             |           |             |       |          |       |            |  |              |  |
| DWG. BY:  | 11/04   |  |             |           |             |       |          |       |            |  |              |  |
| DESIGN BY:  |   |  |             |           |             |       |          |       |            |  |              |  |
| REVIEWED BY:  |   |  |             |           |             |       |          |       |            |  |              |  |

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