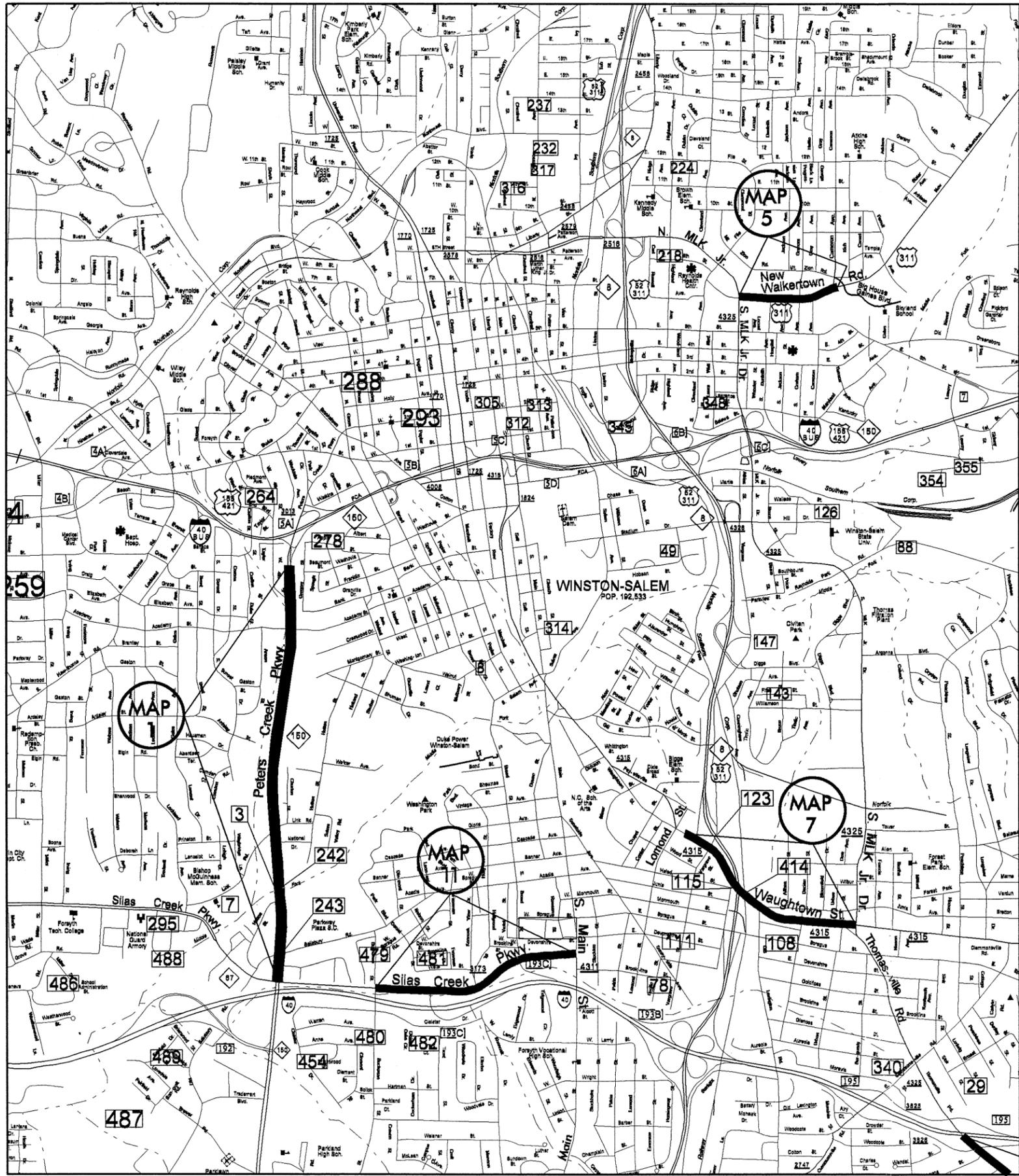


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| PROJECT REFERENCE NO.       | SHEET NO. |
| 9CR.10341.150 9CR.20341.150 | 1         |



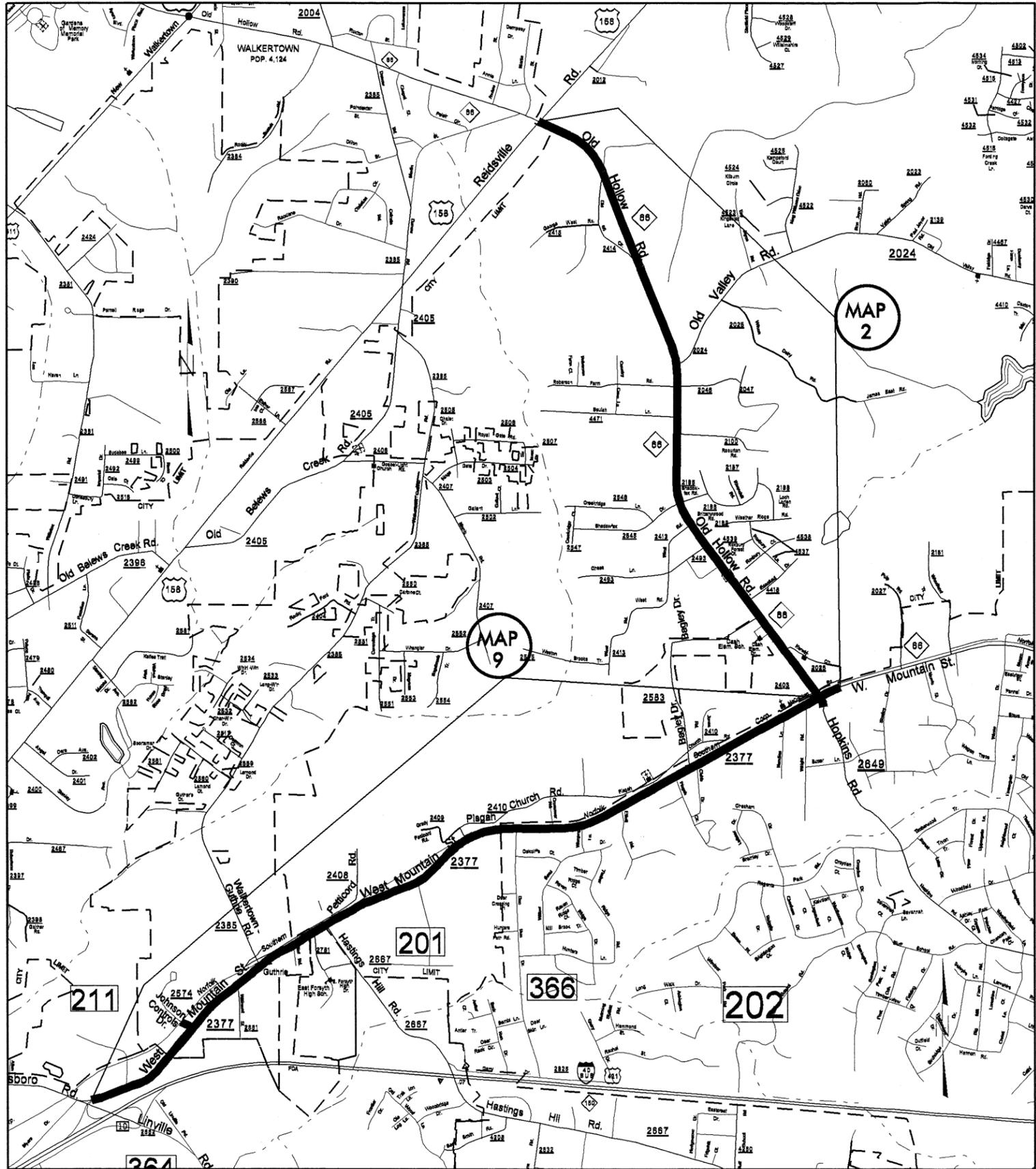
Map 1  
 NC 150 Peters Creek Parkway  
 ALL WORK ON THIS MAP TO BE NIGHT TIME  
 ONLY 7 P.M. TO 6 A.M., Monday-Sunday.  
 Mill entire widths both directions 1½"  
 Depth to expose gutter, then Mill 0-1½"  
 at face of gutter a 12 foot width each  
 side. Pave flush to top of gutter.

Map 5  
 US 311 New Walkertown Rd.  
 Mill entire Map 1½" Depth.

Map 7  
 SR 4315 Waughtown St.  
 Mill entire width both directions 1½"  
 Depth from beginning of Map  
 near roundabout to RxR Bridge.  
 From RxR Bridge to end of Map at MLK  
 Jr. Dr. curb Mill 0 to 1½" depth a 12  
 foot width each side of road.

Map 11  
 SR 3173 Silas Creek Pkwy.  
 ALL WORK ON THIS MAP TO BE NIGHT TIME  
 ONLY 7 P.M. TO 6 A.M., Monday-Sunday.  
 Mill entire Map 1½" Depth.

**FORSYTH COUNTY**  
 NORTH CAROLINA

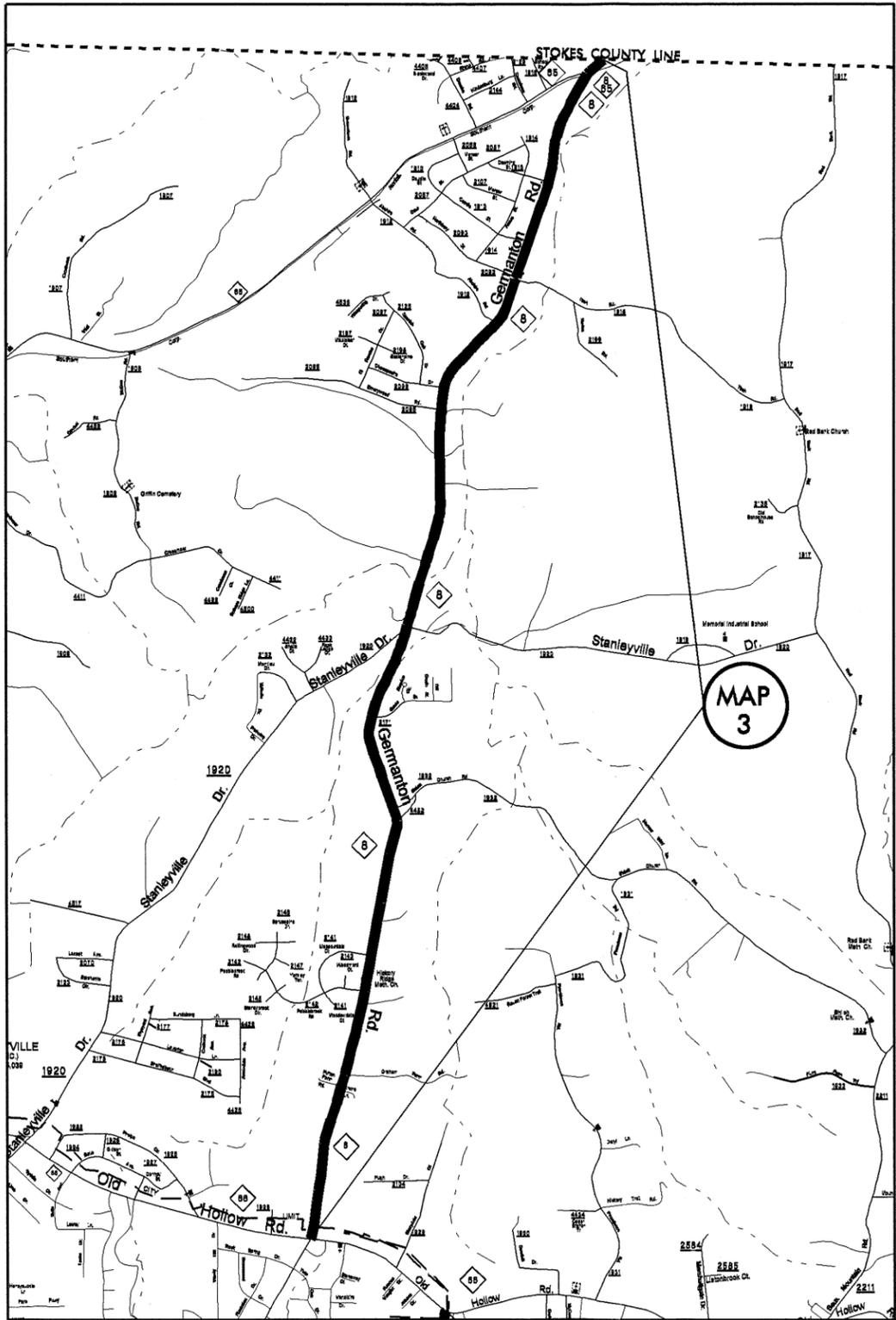


Map 2  
 NC 66 Old Hollow Rd.  
 Tie-In Mill at US 158.  
 Tie-In Mill at RxR Crossing and at ends of Map.  
 Mill at Curb and Medians, 0" to 1½"  
 depth a 12 foot width.  
 Tie-In Mill and Pave 375 feet east of  
 intersection at NC 66 and West Mountain  
 St. to replace Loops by others.

Map 9  
 SR 2377 West Mountain St.  
 Tie-In Mill at pavement joint at Old Greensboro Rd.  
 Mill and Pave the full width and length  
 of ALL Y-Line RxR Crossings.  
 Tie-In Mill and Pave at Hopkins Rd  
 approx. 50 feet from stop bar to  
 replace Loops by others.

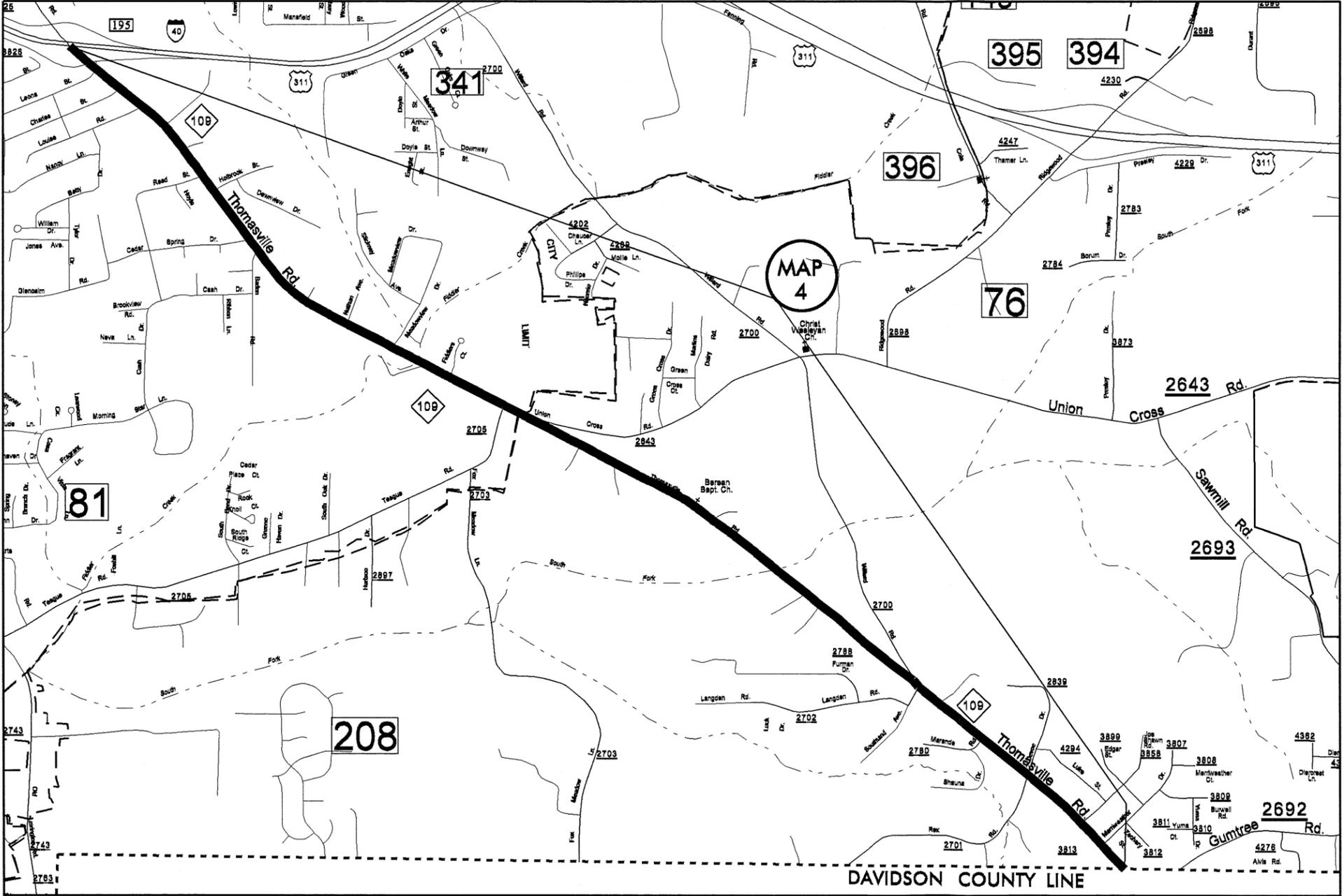
**FORSYTH COUNTY**  
 NORTH CAROLINA

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| PROJECT REFERENCE NO.       | SHEET NO. |
| 9CR.10341.150 9CR.20341.150 | 3         |



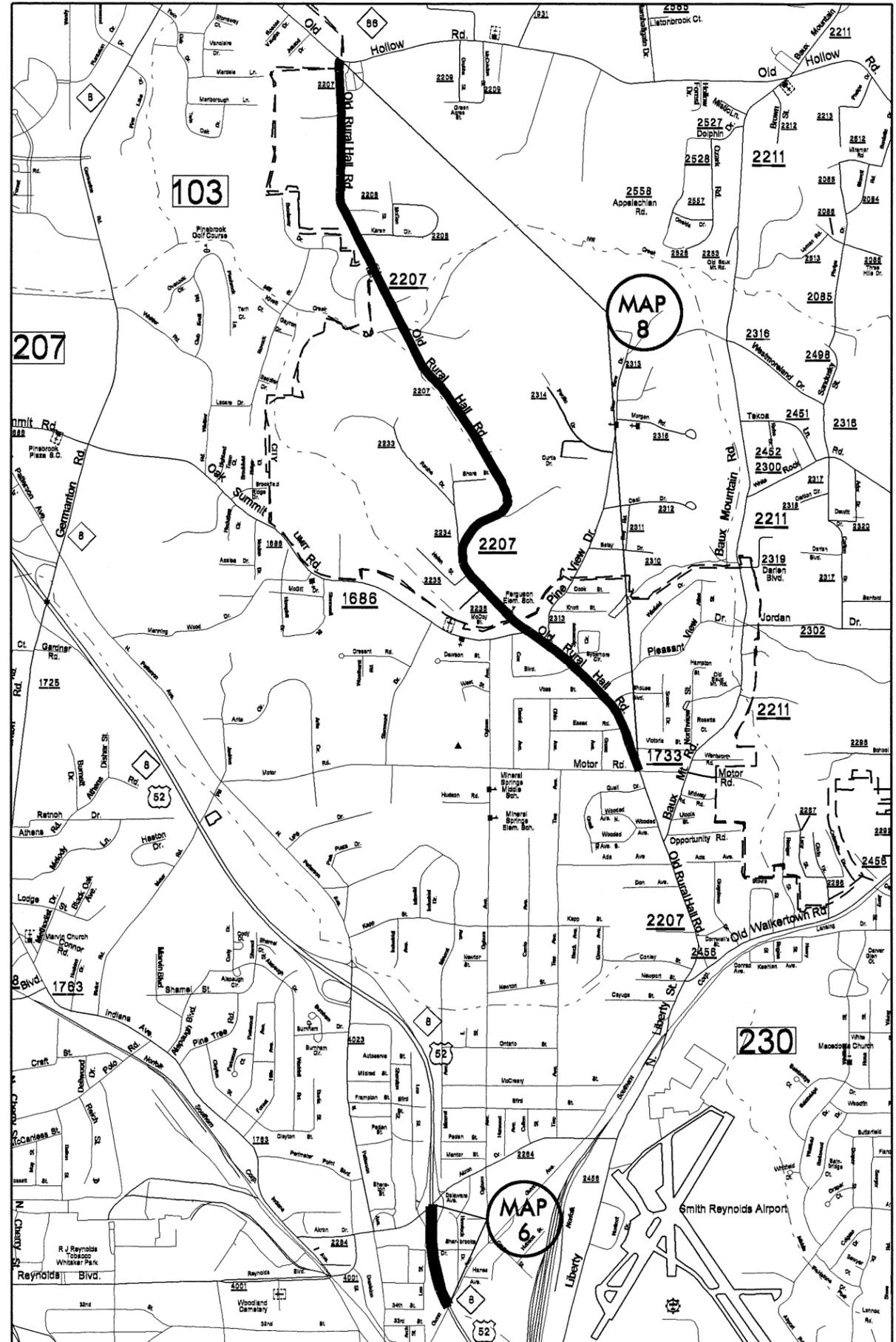
Map 3  
 NC 8 Germanton Rd.  
 Tie-In Mill at county Line.  
 Tie-In Mill at NC 66.

**FORSYTH COUNTY**  
 NORTH CAROLINA



Map 4  
 NC 109 Thomasville Rd.  
 Tie-In Mill at bridge Approach.  
 Tie-In Mill at Davidson County Line.

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|-----------------------------|-----------|
| PROJECT REFERENCE NO.       | SHEET NO. |
| 9CR.10341.150 9CR.20341.150 | 5         |



Map 6  
 US 52 North and South Bound  
 ALL WORK ON THIS MAP TO BE NIGHT TIME  
 ONLY 7 P.M. TO 6 A.M., Monday-Friday.

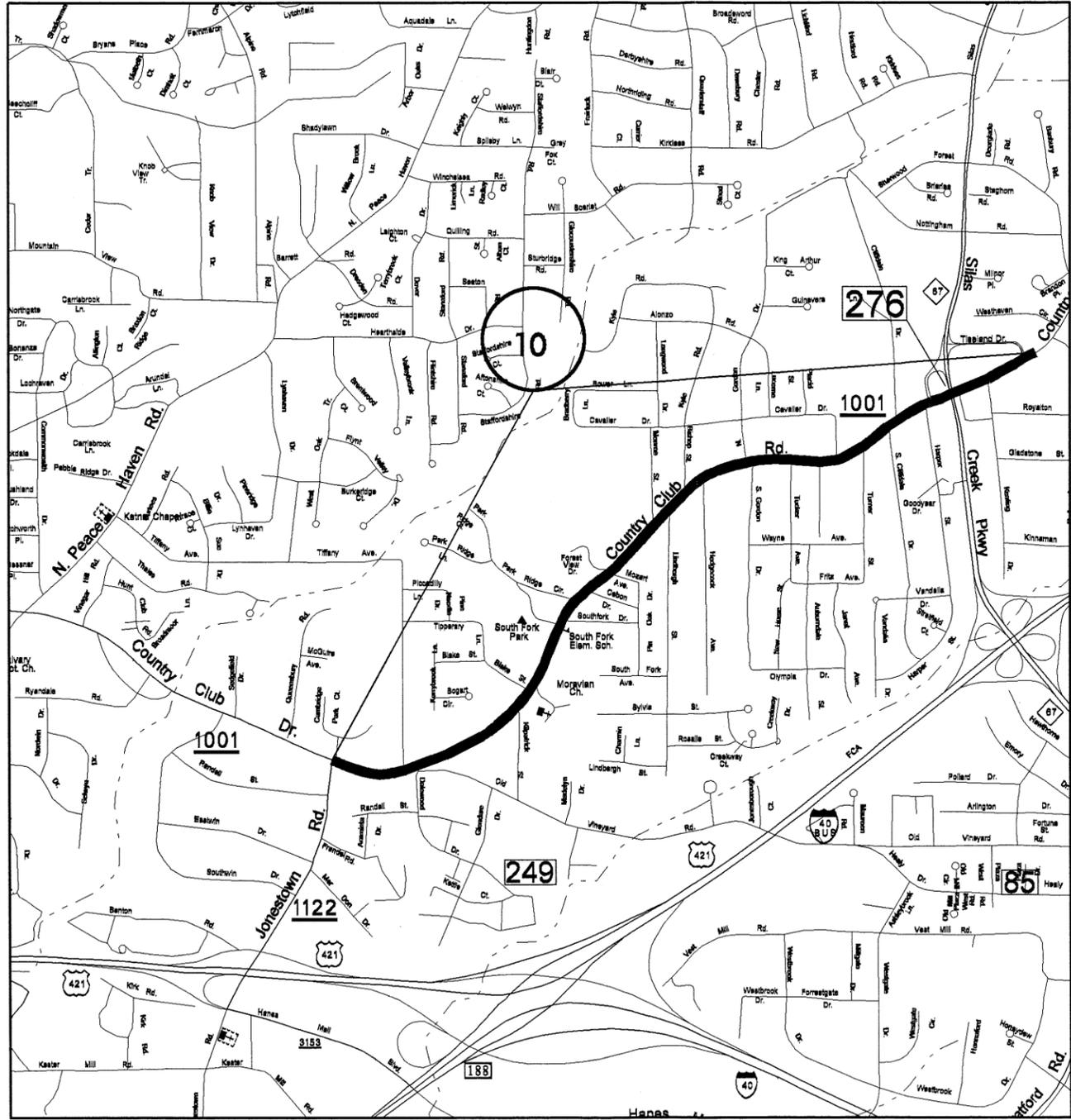
Beginning at bridge #263 over Glenn Ave. Mill Entire Map 1 1/2" Depth, both North and South Bound Lanes. This includes Milling 1 1/2" for 12 feet from Bridge down to approach slab.

Beginning at bridge #263 over Glenn Ave. from approx. 12 feet to clear approach slab, begin milling 2 1/2" to 1 1/2" for approx. 250 feet, both North and South Bound Lanes. See Typical No.11 with Special Mill Detail.

Map 8  
 SR 2207 Old Rural Hall Rd.  
 Tie-In Mill at NC 66.  
 Tie-In Mill at new Pavement joint near new Motor Road Project.

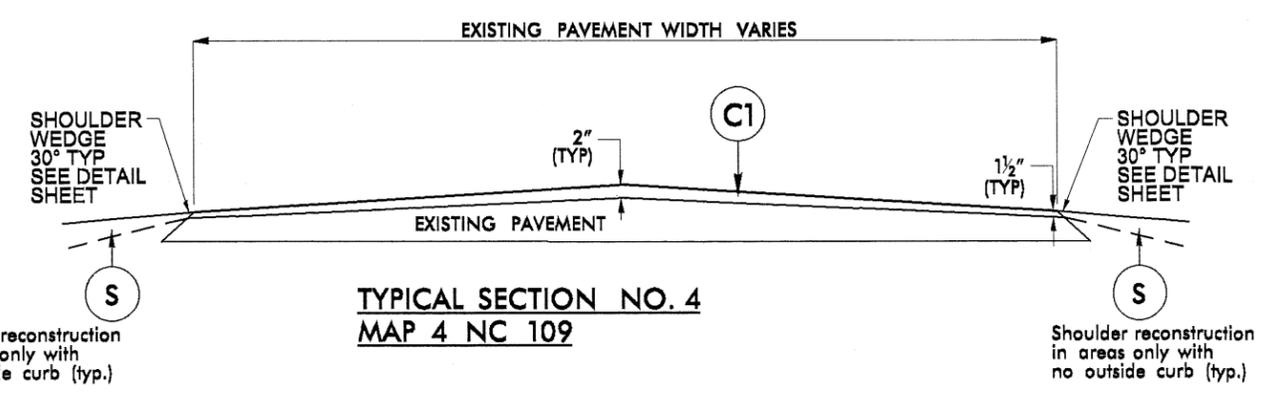
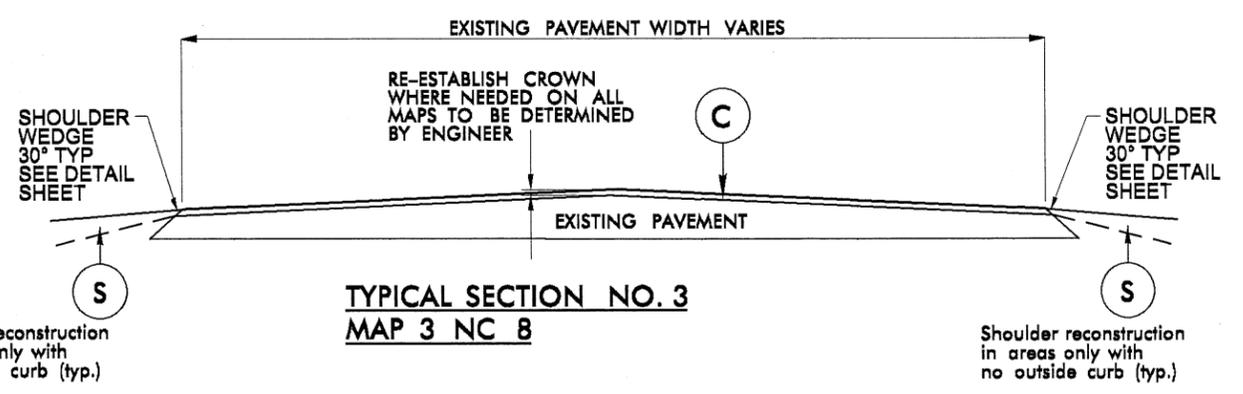
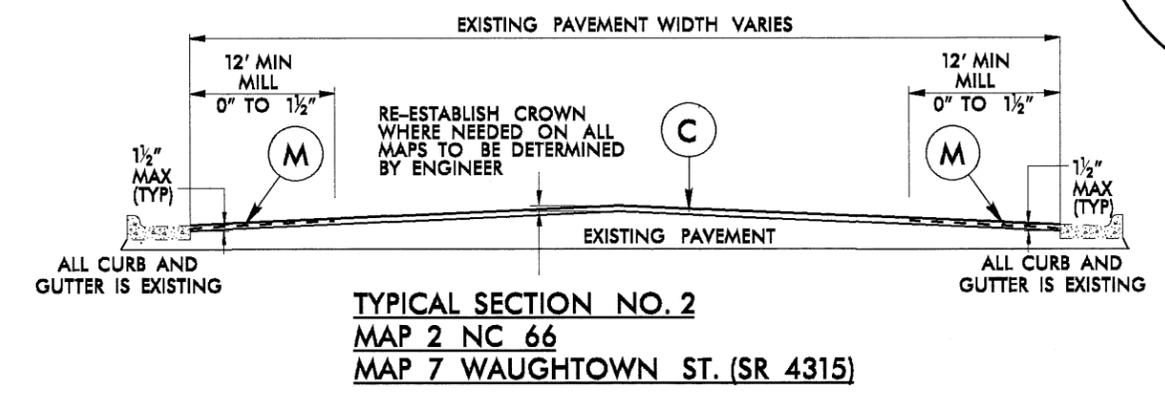
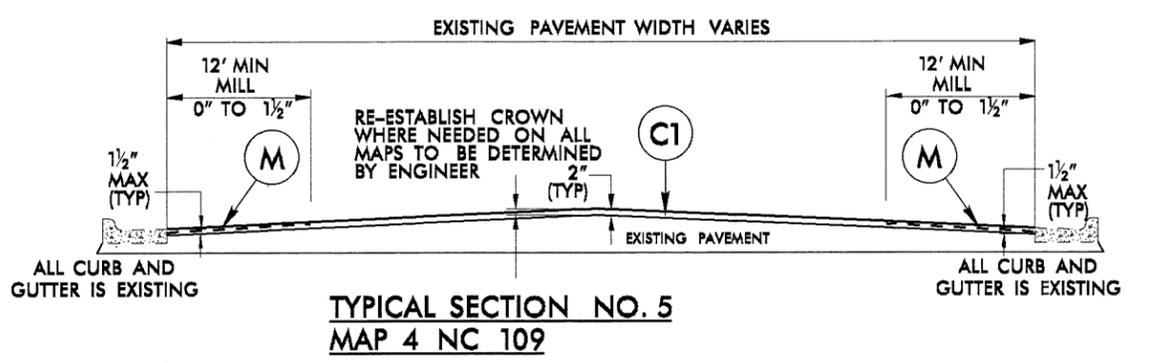
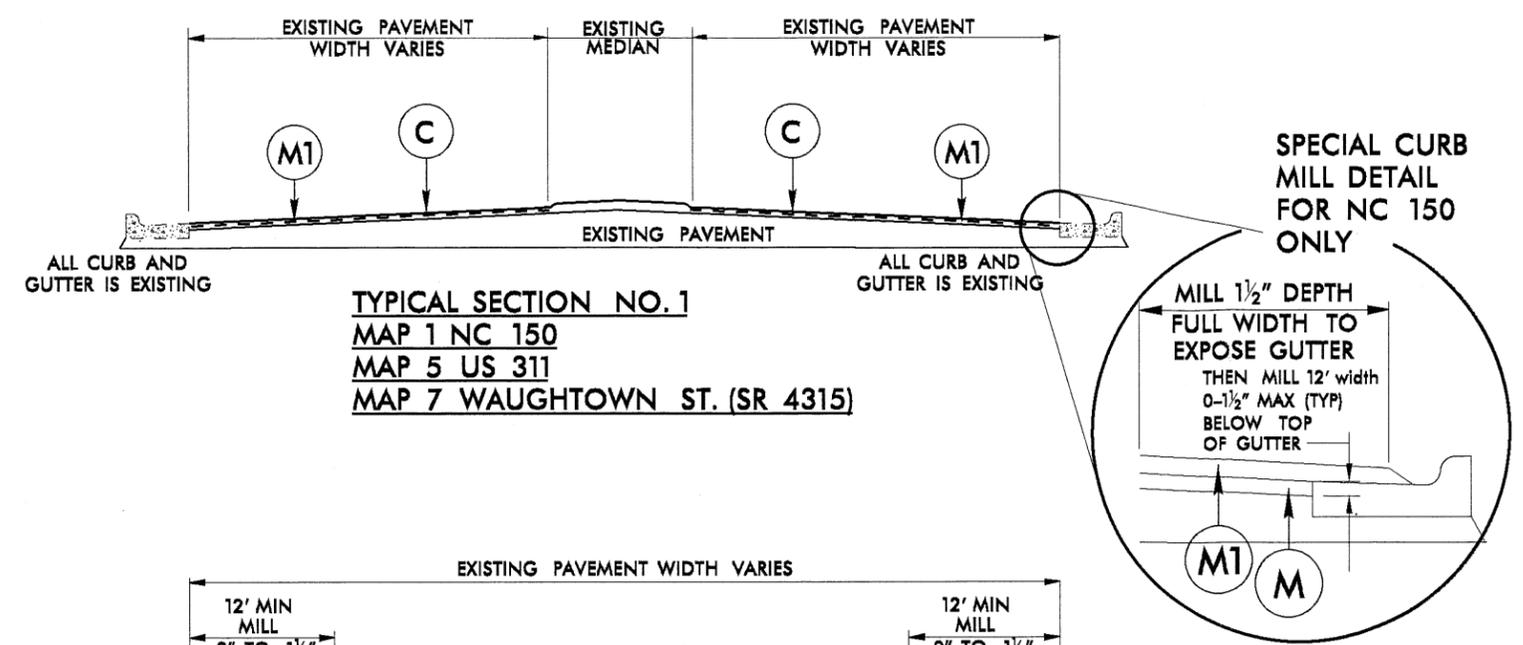
**FORSYTH COUNTY**  
 NORTH CAROLINA

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| PROJECT REFERENCE NO.       | SHEET NO. |
| 9CR.10341.150 9CR.20341.150 | 6         |

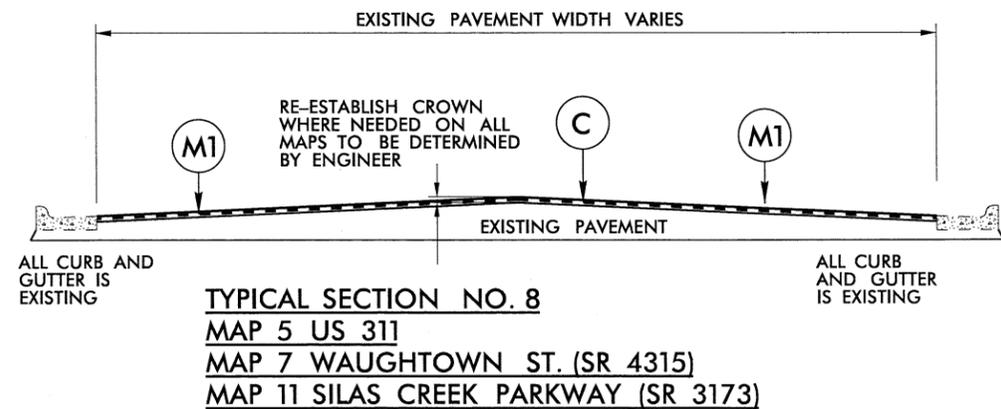
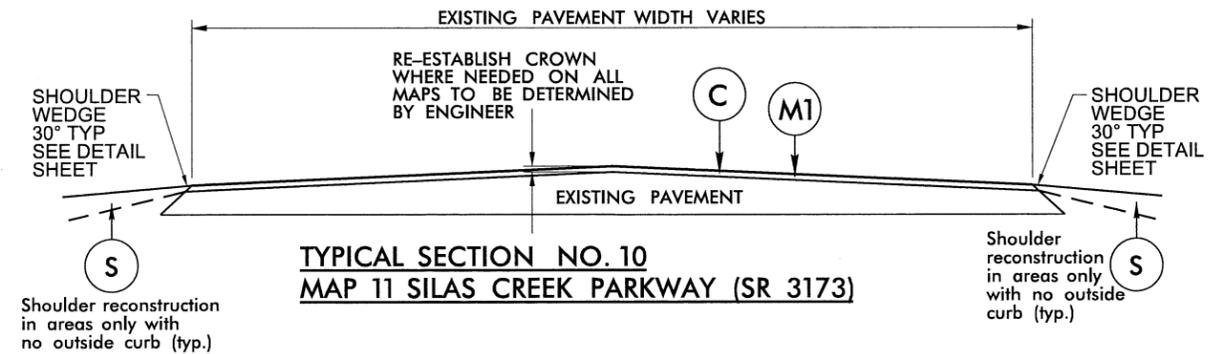
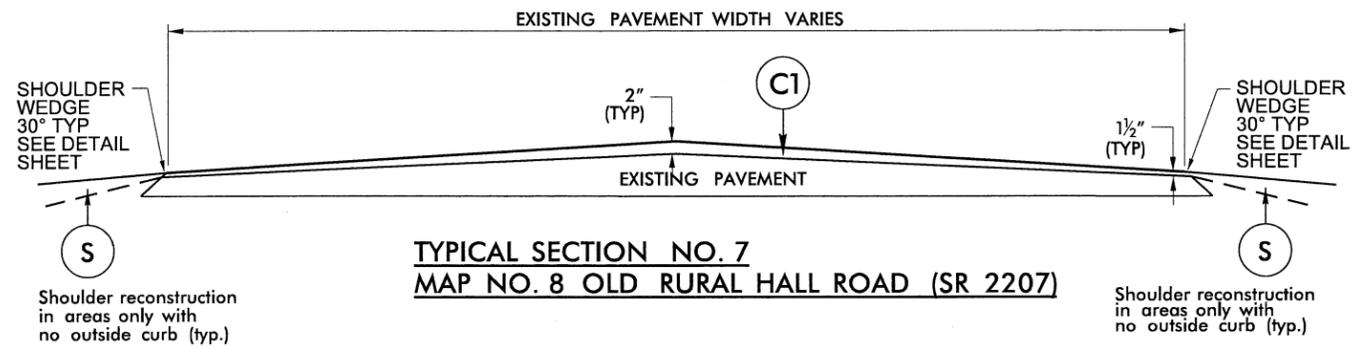
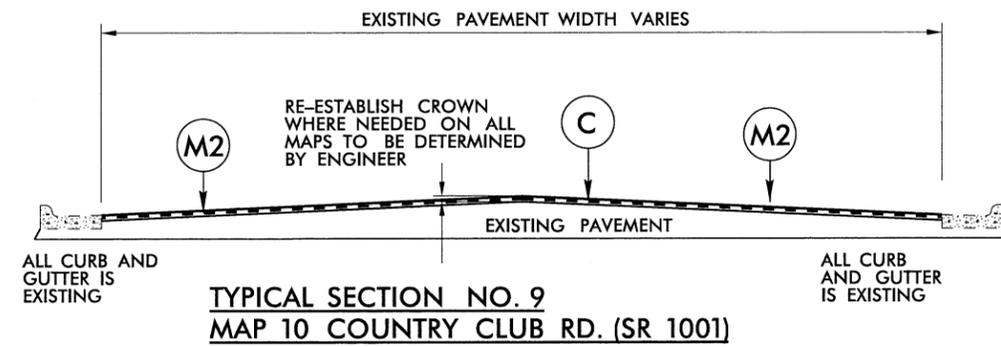
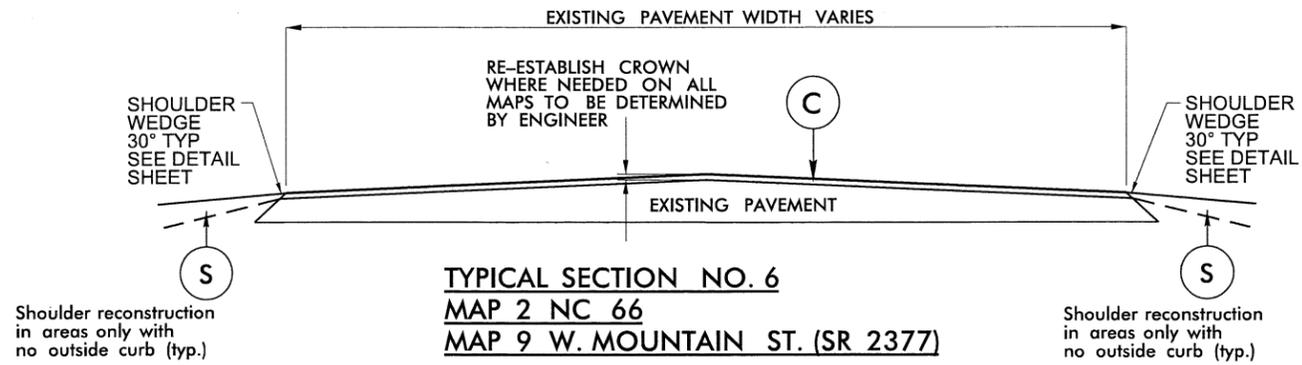


Map 10  
 SR 1001 Country Club Rd.  
 Mill entire Map.  
 Mill to expose gutters approximately  
 3 1/2" at edges to 1 1/2" in middle of road.  
 Adjust Manholes up or down as necessary.

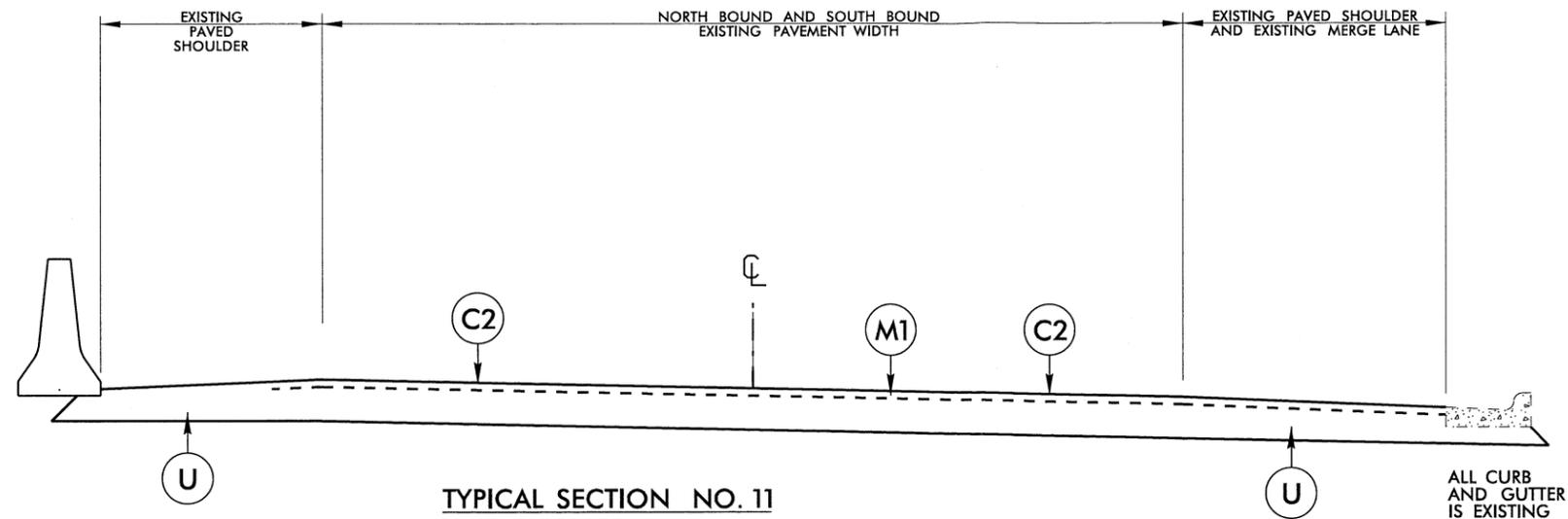
**FORSYTH COUNTY**  
 NORTH CAROLINA



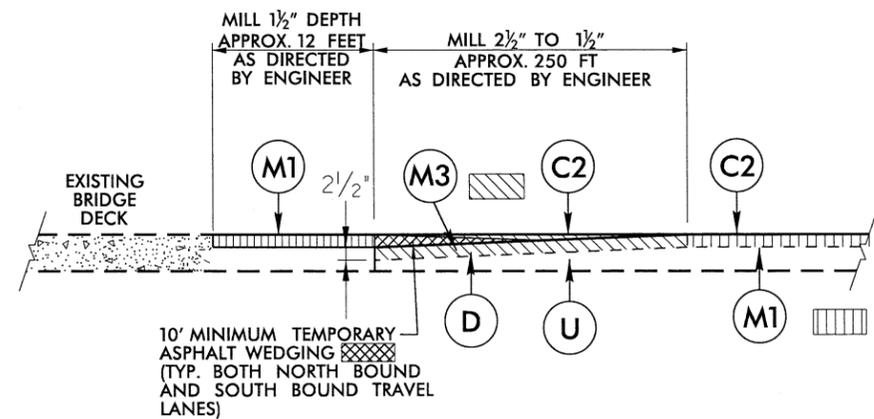
| PAVEMENT SCHEDULE |  |
|-------------------|--|
| C                 | PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.   |
| C1                | PROP. VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 112 LBS PER SQ YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH |
| C2                | PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.   |
| D                 | PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, TO BE APPLIED AT AN AVERAGE RATE OF 285 LBS PER SQ YD.   |
| M                 | MILL ASPHALT PAVEMENT, 0" TO 1 1/2"  |
| M1                | MILL ASPHALT PAVEMENT, 1 1/2" DEPTH  |
| M2                | MILL ASPHALT PAVEMENT, 1 1/2" TO 3 1/2"  |
| M3                | MILL ASPHALT PAVEMENT, 1 1/2" TO 2 1/2"  |
| S                 | SHOULDER RECONSTRUCTION (SEE DETAIL)   |
| U                 | EXISTING PAVEMENT  |



| PAVEMENT SCHEDULE |  |
|-------------------|--|
| C                 | PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.  |
| C1                | PROP. VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 112 LBS PER SQ YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH |
| C2                | PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.  |
| D                 | PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, TO BE APPLIED AT AN AVERAGE RATE OF 285 LBS PER SQ YD.  |
| M                 | MILL ASPHALT PAVEMENT, 0" TO 1½"   |
| M1                | MILL ASPHALT PAVEMENT, 1½" DEPTH   |
| M2                | MILL ASPHALT PAVEMENT, 1½" TO 3½"  |
| M3                | MILL ASPHALT PAVEMENT, 1½" TO 2½"  |
| S                 | SHOULDER RECONSTRUCTION (SEE DETAIL)   |
| U                 | EXISTING PAVEMENT  |



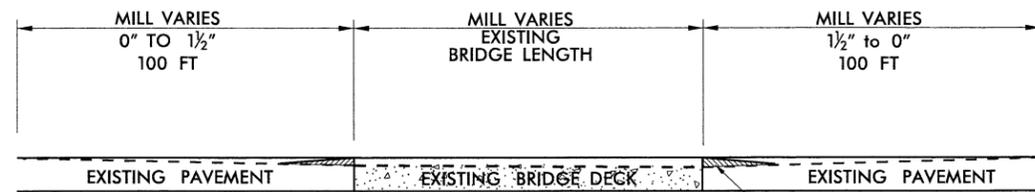
**TYPICAL SECTION NO. 11**  
**MAP 6 US 52**  
**TYPICAL NORTH AND SOUTH BOUND TRAVEL LANES**  
SEE MILLING DETAIL BELOW



**MAP 6 US 52**  
**BRIDGE APPROACH MILLING DETAIL**

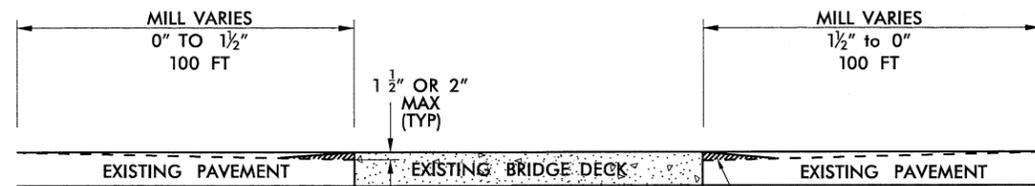
**PAVEMENT SCHEDULE**

|    |  |
|----|--|
| C  | PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD.  |
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| D  | PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, TO BE APPLIED AT AN AVERAGE RATE OF 285 LBS PER SQ YD.  |
| M  | MILL ASPHALT PAVEMENT, 0" TO 1½"   |
| M1 | MILL ASPHALT PAVEMENT, 1½" DEPTH   |
| M2 | MILL ASPHALT PAVEMENT, 1½" TO 3½"  |
| M3 | MILL ASPHALT PAVEMENT, 1½" TO 2½"  |
| S  | SHOULDER RECONSTRUCTION (SEE DETAIL)   |
| U  | EXISTING PAVEMENT  |



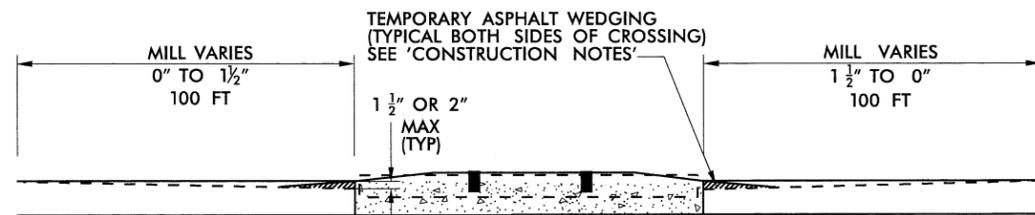
**MILLING  
BRIDGE DECK  
AND APPROACHES**  
(SEE BRIDGE DATA SHEET)

TEMPORARY ASPHALT WEDGING  
(TYPICAL BOTH SIDES OF BRIDGE)  
IF APPROACHES ARE MILLED PRIOR  
TO MILLING BRIDGE DECK



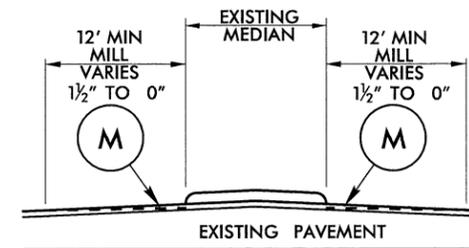
**INCIDENTAL MILLING  
BRIDGE APPROACHES**  
(SEE BRIDGE DATA SHEET)

TEMPORARY ASPHALT WEDGING  
(TYPICAL BOTH SIDES OF BRIDGE)

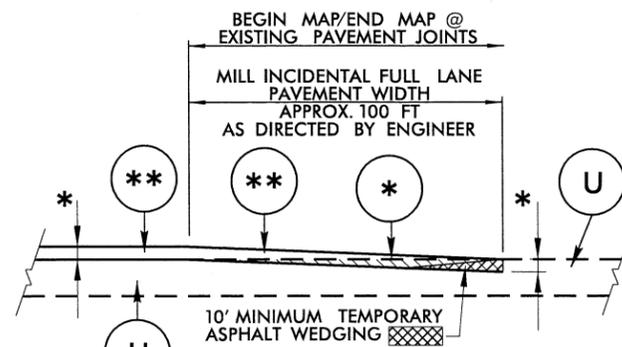


**INCIDENTAL MILLING  
RAILROAD CROSSING  
APPROACHES**

TEMPORARY ASPHALT WEDGING  
(TYPICAL BOTH SIDES OF CROSSING)  
SEE 'CONSTRUCTION NOTES'



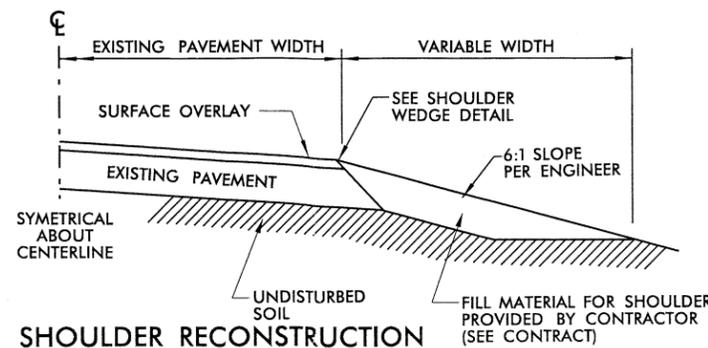
**MILLING AT MEDIANS**



\* MILL DEPTHS WILL BE EQUAL TO OVERLAY THICKNESS OF MAPS SEE TYPICALS AND BRIDGE DATA SHEETS

\*\* SEE TYPICALS FOR MIX TYPE

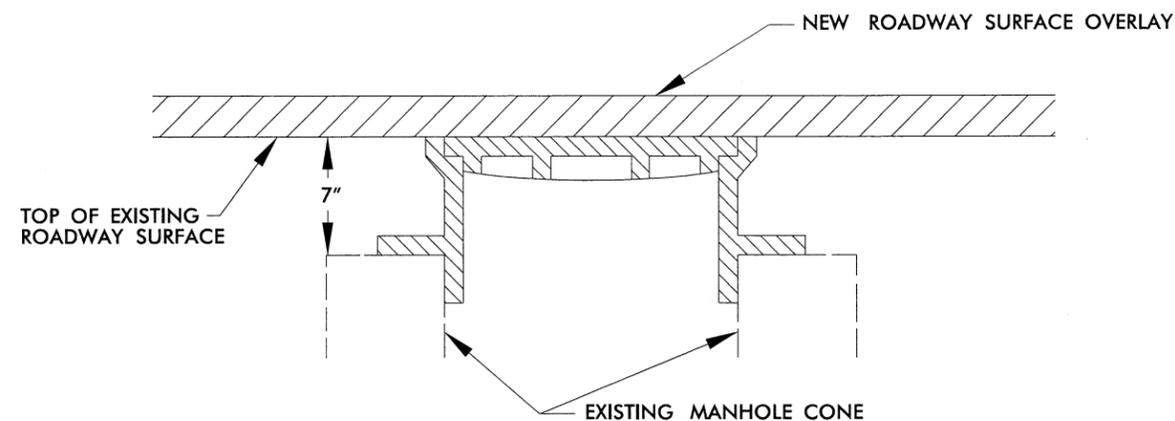
**INCIDENTAL MILLING AT TIE-IN DETAIL**



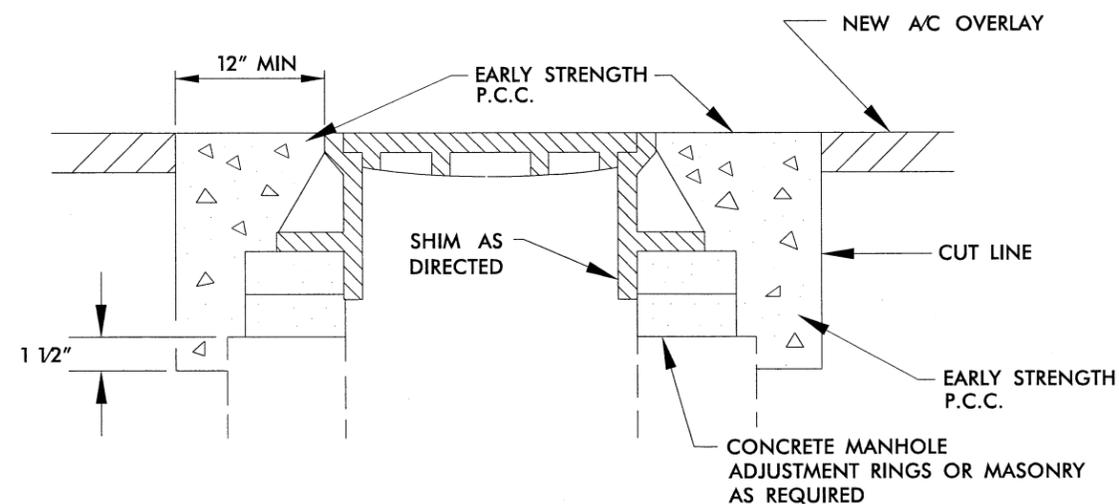
**SHOULDER RECONSTRUCTION**

**PAVEMENT SCHEDULE**

|    |   |
|----|---|
| C  | PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ. YD.   |
| C1 | PROP. VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 112 LBS PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH |
| C2 | PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ. YD.   |
| D  | PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, TO BE APPLIED AT AN AVERAGE RATE OF 285 LBS PER SQ. YD.   |
| M  | MILL ASPHALT PAVEMENT, 0" TO 1 1/2"   |
| M1 | MILL ASPHALT PAVEMENT, 1 1/2" DEPTH   |
| M2 | MILL ASPHALT PAVEMENT, 1 1/2" TO 3 1/2"   |
| M3 | MILL ASPHALT PAVEMENT, 1 1/2" TO 2 1/2"   |
| S  | SHOULDER RECONSTRUCTION (SEE DETAIL)  |
| U  | EXISTING PAVEMENT   |



**STEP 1**



**STEPS 2,3, & 4**

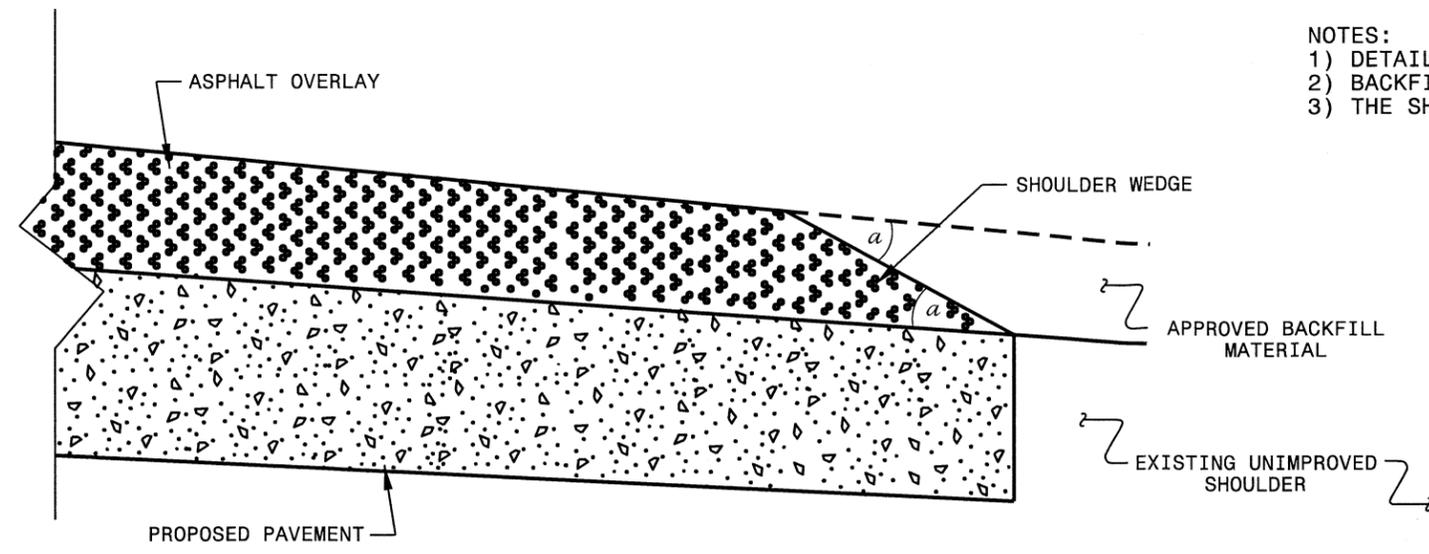
- STEP 1 COVER EXISTING MANHOLE WITH APPROVED MATERIAL AND CONSTRUCT OVERLAY ACROSS TOP OF MANHOLE
- STEP 2 SAW CUT EXCAVATION AROUND MANHOLE 12" MIN. FROM MANHOLE FRAME.
- STEP 3 RAISE MANHOLE FRAME RINGS TO FINISH PAVEMENT PROFILE AND CROSS SLOPE.
- STEP 4 BACKFILL WITH EARLY STRENGTH P.C.C. TO DEPTHS AS DIRECTED.

**MANHOLE ADJUSTMENT DETAIL**

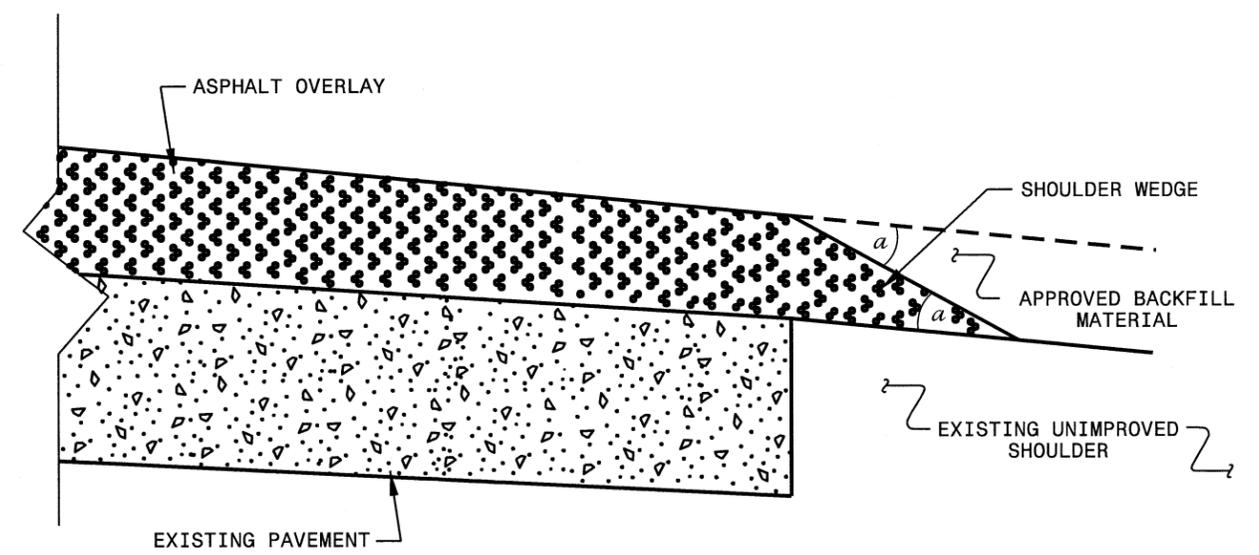
**CONSTRUCTION NOTES:**

1. ALL QUANTITIES ARE "ESTIMATED" AS INDICATED IN THE "SUMMARY OF QUANTITIES".
2. CONSTRUCTION SHALL PROGRESS IN PHASES, IN THE ORDER INDICATED BELOW:
  - PHASE 1 - MILLING AND PATCHING (WHEN REQUIRED)
  - PHASE 2 - SURFACE OVERLAY
  - PHASE 3 - SHOULDER DROP-OFF REPAIR (AS NEEDED AND DIRECTED BY ENGINEER)
  - PHASE 4 - UTILITY ADJUSTMENTS (MANHOLE RING/COVER, VALVE/METER BOX RING/COVER, CATCH BASIN GRATE/COVER, DROP INLET GRATE/COVER, ETC.) WHEN REQUIRED.
3. BRIDGES THAT HAVE FLOOR DRAINS, SHALL HAVE ALL FLOOR DRAINS LEFT OPEN. EXTRA CARE SHALL BE EXERCISED IN MILLING (IF REQUIRED) AND IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE.
4. TEMPORARY ASPHALT WEDGING SHALL BE PLACED ON THE SAME DAY THAT BRIDGE AND/OR RAILROAD APPROACHES ARE MILLED (AND IF APPROACHES ARE MILLED PRIOR TO BRIDGE DECK).
5. FOR TWO-LANE ROADWAYS - IT SHALL BE UNDERSTOOD THAT TYPICALLY ON A ROADWAY MEASURING 20 FEET OR LESS IN WIDTH, THE CENTER OF THE WHITE EDGELINE SHALL BE LOCATED SIX INCHES FROM THE EDGE OF PAVEMENT ON EITHER SIDE OF THE ROADWAY; ON A ROADWAY MEASURING 22 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 10 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 24 FEET IN WIDTH, TRAVEL LANES SHALL MEASURE 11 FEET AND THE WHITE EDGELINE SHALL BE LOCATED ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE; ON A ROADWAY MEASURING 26 FEET OR MORE IN WIDTH, TRAVEL LANES SHALL MEASURE 12 FEET AND THE WHITE EDGELINE SHALL BE LOCATED NO LESS THAN ONE FOOT FROM THE EDGE OF PAVEMENT ON EITHER SIDE. THIS SHALL BE STANDARD PRACTICE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. PAPER JOINTS ARE TO BE PLACED BETWEEN DAYS OF PAVING OPERATIONS AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION 610-11.
7. ALL MILLED AREAS WILL BE PAVED WITHIN 72 HOURS UNLESS APPROVED BY THE ENGINEER.
9. REPLACE ANY PORTION OF STOP BARS AND OTHER PAVEMENT MARKINGS AT ANY INTERSECTION INCLUDING Y-LINES NOT ACTUALLY BEING PAVED OVER, THAT ARE OBLITERATED BY THE PAVING OPERATION EITHER BY HAULING WHEEL TRACKS OR TACK TRUCK BY THE END OF EACH RESURFACING OPERATION

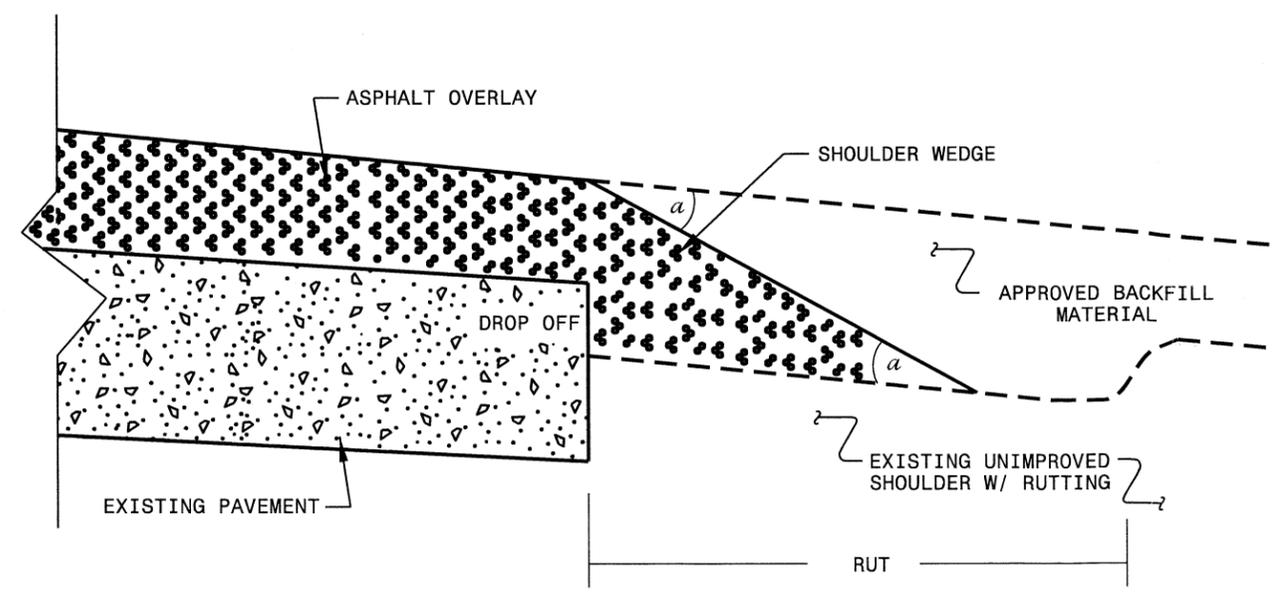
- NOTES:  
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.  
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.  
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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°

|  |                |
|--|----------------|
| <b>CONTRACT STANDARDS<br/>AND DEVELOPMENT UNIT</b>       |                |
| Office 919-707-6950 FAX 919-250-4119                     |                |
| <b>SHOULDER WEDGE<br/>DETAILS</b>                        |                |
| ORIGINAL BY: T.SPELL                                     | DATE: 7-19-11  |
| MODIFIED BY:   | DATE: 10/18/12 |
| CHECKED BY:  | DATE:          |
| FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn |                |

22-APR-2014 08:39  
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 b1caud11 AT DSCAD26839

## 2015\_Resurfacing\_FORSYTH

|         |               |                          |            |                     |                    |                          |                                  |                          |                             | PROJECT NO.<br>9CR.10341.150,<br>9CR.20341.150 |               | SHEET NO.<br>13  |  |
|---------|---------------|--------------------------|------------|---------------------|--------------------|--------------------------|----------------------------------|--------------------------|-----------------------------|--|---------------|--|--|
| Map No. | Route No.     | Route Name               | Bridge No. | Feature Intersected | Floor Construction | Clear Roadway Width (Ft) | Horizontal Clearance Under (Ft.) | Vertical Clearance Under | 2nd Opening Clearance Under | Length (Ft)                                    | Posting       | Recommended Treatment, From Bridge Maintenance         |  |
| 1       | NC 150        | NC 150 SBL               | 3          | SALEM CREEK         | 7 1/2 RC SLAB      | 52                       | NA                               | NA                       | NA                          | 120  | NA            | MILL APPROACHES, DO NOT PAVE ON BRIDGE                 |  |
| 1       | NC 150        | NC 150 NBL               | 242        | SALEM CREEK         | 7.5 RC, 5.5 AWS    | 40                       | NA                               | NA                       | NA                          | 120  | SV 34 TTST 40 | MILL APPROACHES, MILL DECK AND REPAVE                  |  |
| 1       | NS            | SALISBURY RIDGE ROAD     | 243        | NC 150              | 7 RC SLAB          | 28                       | 40                               | 30 FT 07 IN              | 32 FT 00 IN NC 150 NB       | 255  | SV 14 TTST 18 | PAVE UNDER OVERPASS                                    |  |
| 4       | NC 109        | NC 109 / THOMASVILLE RD. | 29         | I-40, US 311        | 8 1/2 RC SLAB      | 68                       | NA                               | NA                       | NA                          | NA   | NA            | MILL APPROACH, DO NOT PAVE ON BRIDGE                   |  |
| 6       | US 52         | US 52                    | 263        | GLENN AVENUE        | 6.5 RC SLAB        | 82                       | NA                               | 14 FT 06 IN              | NA                          | 160  | NA            | MILL APPROACHES, DO NOT PAVE ON BRIDGE                 |  |
| 6       | US 52         | US 52                    | 265        | AKRON DR.           | 6.5 RC/ 3 AWS      | 56                       | NA                               | 14 FT 06 IN              | 14 FT 11 IN US 52 SBL       | 224  | NA            | MAP ENDS BEFORE OVERPASS                               |  |
| 7       | US 52, US 311 | WAUGHTOWN ST.            | 115        | SR 4315 & RAILROAD  | 7.75 RC, SLAB      | 82                       | 58                               | 14 FT 11 IN SR 4315      | 30 FT 06 IN RAILROAD        | 872  | NA            | 1 1/2" FULL WIDTH MILL UNDER OVERPASS TO BRIDGE NO.414 |  |
| 7       | SR 4315       | WAUGHTOWN ST.            | 414        | W.S.S.B. RR         | 8 1/2 RC, SLAB     | 58                       | NA                               | NA                       | NA                          | 100  | NA            | MILL APPROACH EAST SIDE, DO NOT PAVE ON BRIDGE         |  |
| 10      | SR 1001       | COUNTRYCLUB ROAD         | 276        | NC 67               | 7 1/4 RC SLAB      | 44                       | NA                               | NA                       | NA                          | 158  | NA            | MILL APPROACHES, DO NOT PAVE ON BRIDGE                 |  |

|                                 |           |           |
|---------------------------------|-----------|-----------|
| PROJECT NO.                     | SHEET NO. | TOTAL NO. |
| 9CR.10341.150,<br>9CR.20341.150 | 14        |           |

### SUMMARY OF QUANTITIES

| PROJECT NO.                             | COUNTY  | MAP NO. | ROUTE                                 | DESCRIPTION  | TYP   | LANES | LANE TYPE | FINAL SURFACE TESTING REQUIRED | WARM MIX ASPHALT REQUIRED | LENGTH MI     | WIDTH FT | BORROW EXCAVATION CY | INCIDENTAL STONE BASE TONS | SHOULDER RECONSTRUCTION SMI | MILLING ASPHALT PAVEMENT, 1 1/2" DEPTH SY | MILLING ASPHALT PAVEMENT, 0" TO 1 1/2" DEPTH SY | MILLING ASPHALT PAVEMENT, 1 1/2" TO 2 1/2" DEPTH SY | MILLING ASPHALT PAVEMENT, 1 1/2" TO 3 1/2" DEPTH SY | INCIDENTAL MILLING SY | INTER-MEDIATE COURSE, I19.0C TONS | SURFACE COURSE, S9.5B TONS | SURFACE COURSE, S9.5C TONS | ASPHALT BINDER FOR PLANT MIX TONS | PATCHING EXISTING PAVEMENT TONS | ADJ. OF MANHOLES EA | ADJ. OF METER OR VALVE BOX EA | TEMP. SILT FENCE LF | WATTLE LF    | PORTABLE LIGHTING LS |            |              |              |            |          |  |          |
|---|---------|---------|---------------------------------------|--|-------|-------|-----------|--------------------------------|---------------------------|---------------|----------|----------------------|----------------------------|-----------------------------|---|---|---|---|-----------------------|-----------------------------------|----------------------------|----------------------------|-----------------------------------|---------------------------------|---------------------|-------------------------------|---------------------|--------------|----------------------|------------|--------------|--------------|------------|----------|--|----------|
| 9CR.10341.150                           | Forsyth | 1       | NC 150 PETERS CREEK PARKWAY           | FROM PVMT JT AT EDGE OF PAVEMENT AT SILAS CREEK PARKWAY TO GORE AT EAST BOUND RAMP TO BUS 40                         | 1     | 2     | MD        | NO                             | NO                        | 1.54          | 72       |                      |                            |                             | 73,309                                    | 21,683  |   |   |                       |                                   | 6,784                      |                            | 407                               | 20                              | 18                  | 23                            |                     |              | 1                    |            |              |              |            |          |  |          |
| <b>TOTAL FOR MAP NO. 1</b>              |         |         |                                       |  |       |       |           |                                |                           | <b>1.54</b>   |          |                      |                            |                             | <b>73,309</b>                             | <b>21,683</b>                                   |   |   |                       |                                   | <b>6,784</b>               |                            | <b>407</b>                        | <b>20</b>                       | <b>18</b>           | <b>23</b>                     |                     |              |                      |            |              |              |            |          |  |          |
| 9CR.10341.150                           | Forsyth | 2       | NC 66                                 | FROM PAVEMENT JT AT US 158 TO RXR CROSSING AT W. MOUNTAIN ST. (SR 2377)  | 2,6   | 2     | 2WD       | NO                             | NO                        | 2.454         | 24       | 218                  | 216                        | 3.63                        |   |   |   |   | 1,188                 |                                   | 4,086                      |                            | 245                               | 20                              | 1                   | 20                            | 726                 | 73           |                      |            |              |              |            |          |  |          |
| <b>TOTAL FOR MAP NO. 2</b>              |         |         |                                       |  |       |       |           |                                |                           | <b>2.454</b>  |          | <b>218</b>           | <b>216</b>                 | <b>3.63</b>                 |   |   |   |   | <b>1,188</b>          |                                   | <b>4,086</b>               |                            | <b>245</b>                        | <b>20</b>                       | <b>1</b>            | <b>20</b>                     | <b>726</b>          | <b>73</b>    |                      |            |              |              |            |          |  |          |
| 9CR.10341.150                           | Forsyth | 3       | NC 8                                  | FROM NC66 TO STOKES COUNTY LINE  | 3     | 2     | 2WU       | NO                             | NO                        | 4.738         | 24       | 569                  | 327                        | 9.48                        |   |   |   |   | 533                   |                                   | 6,208                      |                            | 372                               | 20                              |                     | 13                            | 1,895               | 190          |                      |            |              |              |            |          |  |          |
| <b>TOTAL FOR MAP NO. 3</b>              |         |         |                                       |  |       |       |           |                                |                           | <b>4.738</b>  |          | <b>569</b>           | <b>327</b>                 | <b>9.48</b>                 |   |   |   |   | <b>533</b>            |                                   | <b>6,208</b>               |                            | <b>372</b>                        | <b>20</b>                       |                     | <b>13</b>                     | <b>1,895</b>        | <b>190</b>   |                      |            |              |              |            |          |  |          |
| 9CR.10341.150                           | Forsyth | 4       | NC 109 THOMASVILLE RD.                | FROM BRIDGE # 29 OVER I-40 TO DAVIDSON COUNTY LINE   | 4,5   | 2     | M2        | NO                             | NO                        | 3.64          | 24       | 405                  | 177                        | 6.75                        |   |   |   |   | 889                   |                                   | 6,734                      |                            | 404                               | 20                              | 12                  | 21                            | 1,351               | 135          |                      |            |              |              |            |          |  |          |
| <b>TOTAL FOR MAP NO. 4</b>              |         |         |                                       |  |       |       |           |                                |                           | <b>3.64</b>   |          | <b>405</b>           | <b>177</b>                 | <b>6.75</b>                 |   |   |   |   | <b>889</b>            |                                   | <b>6,734</b>               |                            | <b>404</b>                        | <b>20</b>                       | <b>12</b>           | <b>21</b>                     | <b>1,351</b>        | <b>135</b>   |                      |            |              |              |            |          |  |          |
| 9CR.10341.150                           | Forsyth | 5       | US 311 NEW WALKERTOWN RD.             | FROM N. MARTIN LUTHER KING JR. DR. TO PAVEMENT JOINT NEAR BIG HOUSE GAINES BLVD.                                     | 1,8   | 2     | M2        | NO                             | NO                        | 0.35          | 48       |                      |                            |                             |   |   |   |   |                       |                                   | 982                        |                            | 59                                | 20                              | 11                  | 5                             |                     |              |                      |            |              |              |            |          |  |          |
| <b>TOTAL FOR MAP NO. 5</b>              |         |         |                                       |  |       |       |           |                                |                           | <b>0.35</b>   |          |                      |                            |                             |   |   |   |   |                       |                                   | <b>982</b>                 |                            | <b>59</b>                         | <b>20</b>                       | <b>11</b>           | <b>5</b>                      |                     |              |                      |            |              |              |            |          |  |          |
| 9CR.10341.150                           | Forsyth | 6       | US 52 NORTHBOUND AND SOUTHBOUND LANES | FROM BRIDGE #263 OVER GLENN AVE. TO PAVEMENT JOINT SOUTH OF AKRON DRIVE OVERPASS BRIDGE#265                          | 11    | 2     | M2        | NO                             | NO                        | 0.296         | 72       |                      |                            |                             | 10,504                                    |   |   |   |                       | 315                               |                            | 1,217                      |                                   | 87                              | 20                  |                               |                     |              |                      |            |              |              |            |          |  |          |
| <b>TOTAL FOR MAP NO. 6</b>              |         |         |                                       |  |       |       |           |                                |                           | <b>0.296</b>  |          |                      |                            |                             | <b>10,504</b>                             |   |   |   |                       | <b>315</b>                        |                            | <b>1,217</b>               |                                   | <b>87</b>                       | <b>20</b>           |                               |                     |              |                      |            |              |              |            |          |  |          |
| <b>TOTAL FOR PROJ NO. 9CR.10341.150</b> |         |         |                                       |  |       |       |           |                                |                           | <b>13.018</b> |          |                      |                            |                             |   | <b>1,192</b>                                    | <b>720</b>  | <b>19.86</b>  |                       | <b>94,415</b>                     | <b>32,885</b>              | <b>2,000</b>               |                                   | <b>2,610</b>                    | <b>315</b>          | <b>24,794</b>                 | <b>1,217</b>        | <b>1,574</b> | <b>120</b>           | <b>42</b>  | <b>82</b>    | <b>3,972</b> | <b>398</b> | <b>1</b> |  |          |
| 9CR.20341.150                           | Forsyth | 7       | SR 4315 WAUGHTOWN ST.                 | FROM PVMT JT CLOSEST TO ROUNDABOUT TO EDGE OF PAVEMENT OF S. MARTIN LUTHER KING JR DR.                               | 1,2,8 | 2     | M2        | NO                             | NO                        | 0.75          | 36       |                      |                            |                             | 10,665                                    | 5,920   |   |   |                       | 1,044                             |                            | 1,810                      |                                   | 109                             | 20                  | 27                            | 11                  |              | *                    |            |              |              |            |          |  |          |
| <b>TOTAL FOR MAP NO. 7</b>              |         |         |                                       |  |       |       |           |                                |                           | <b>0.75</b>   |          |                      |                            |                             | <b>10,665</b>                             | <b>5,920</b>                                    |   |   |                       | <b>1,044</b>                      |                            | <b>1,810</b>               |                                   | <b>109</b>                      | <b>20</b>           | <b>27</b>                     | <b>11</b>           |              |                      |            |              |              |            |          |  |          |
| 9CR.20341.150                           | Forsyth | 8       | SR 2207 OLD RURAL HALL RD.            | FROM NC 66 PAVEMENT JOINT TO PAVEMENT JOINT AT MOTOR RD. (SR 1733)   | 7     | 2     | 2WU       | NO                             | NO                        | 2.624         | 20       | 315                  | 405                        | 5.25                        |   |   |   |   |                       | 444                               |                            | 3,343                      |                                   | 201                             | 20                  | 4                             | 5                   | 1,050        | 105                  |            |              |              |            |          |  |          |
| <b>TOTAL FOR MAP NO. 8</b>              |         |         |                                       |  |       |       |           |                                |                           | <b>2.624</b>  |          | <b>315</b>           | <b>405</b>                 | <b>5.25</b>                 |   |   |   |   | <b>444</b>            |                                   | <b>3,343</b>               |                            | <b>201</b>                        | <b>20</b>                       | <b>4</b>            | <b>5</b>                      | <b>1,050</b>        | <b>105</b>   |                      |            |              |              |            |          |  |          |
| 9CR.20341.150                           | Forsyth | 9       | SR 2377 WEST MOUNTAIN ST.             | FROM 375 FEET BEYOND EAST SIDE STOP BAR AT NC 66 TO PAVEMENT JT AT GREENSBORO RD. (SR 2042)                          | 6     | 2     | 2WU       | NO                             | NO                        | 3.256         | 24       | 391                  | 270                        | 6.51                        |   |   |   |   |                       | 2,954                             |                            | 4,980                      |                                   | 299                             | 20                  | 3                             | 23                  | 1,302        | 130                  |            |              |              |            |          |  |          |
| <b>TOTAL FOR MAP NO. 9</b>              |         |         |                                       |  |       |       |           |                                |                           | <b>3.256</b>  |          | <b>391</b>           | <b>270</b>                 | <b>6.51</b>                 |   |   |   |   | <b>2,954</b>          |                                   | <b>4,980</b>               |                            | <b>299</b>                        | <b>20</b>                       | <b>3</b>            | <b>23</b>                     | <b>1,302</b>        | <b>130</b>   |                      |            |              |              |            |          |  |          |
| 9CR.20341.150                           | Forsyth | 10      | SR 1001 COUNTRYCLUB RD.               | FROM PAVEMENT JOINT EAST OF TISELAND DR. NW TO 100 FEET WEST OF 100 FEET WEST OF STOP BAR AT JONESTOWN RD. (SR 1122) | 9     | 2     | MU        | NO                             | NO                        | 2.04          | 32       |                      |                            |                             |   |   |   |   |                       |                                   |                            | 3,868                      |                                   | 232                             | 20                  | 76                            | 36                  |              |                      |            |              |              |            |          |  |          |
| <b>TOTAL FOR MAP NO. 10</b>             |         |         |                                       |  |       |       |           |                                |                           | <b>2.04</b>   |          |                      |                            |                             |   |   |   |   |                       |                                   | <b>41,710</b>              | <b>1,023</b>               | <b>3,868</b>                      |                                 | <b>232</b>          | <b>20</b>                     | <b>76</b>           | <b>36</b>    |                      |            |              |              |            |          |  |          |
| 9CR.20341.150                           | Forsyth | 11      | SR 3173 SILAS CREEK PARKWAY           | FROM MAIN ST. TO 300 FEET WEST OF STOP BAR AT BUCHANAN ST. (NS)  | 8,10  | 2     | M2        | NO                             | NO                        | 0.84          | 48-84    | 45                   |                            | 0.76                        | 34,250                                    |   |   |   |                       |                                   |                            | 3,170                      |                                   | 190                             | 20                  | 2                             | 2                   | 152          | 15                   |            |              |              |            |          |  |          |
| <b>TOTAL FOR MAP NO. 11</b>             |         |         |                                       |  |       |       |           |                                |                           | <b>0.84</b>   |          | <b>45</b>            |                            | <b>0.76</b>                 | <b>34,250</b>                             |   |   |   |                       | <b>3,170</b>                      |                            | <b>190</b>                 | <b>20</b>                         | <b>2</b>                        | <b>2</b>            | <b>152</b>                    | <b>15</b>           |              |                      |            |              |              |            |          |  |          |
| <b>TOTAL FOR PROJ NO. 9CR.20341.150</b> |         |         |                                       |  |       |       |           |                                |                           | <b>9.51</b>   |          | <b>751</b>           | <b>675</b>                 | <b>12.52</b>                | <b>44,915</b>                             | <b>5,920</b>                                    |   | <b>41,710</b>                                       | <b>5,465</b>          | <b>17,171</b>                     |                            | <b>1,031</b>               | <b>100</b>                        | <b>112</b>                      | <b>77</b>           | <b>2,504</b>                  | <b>250</b>          |              |                      |            |              |              |            |          |  | <b>*</b> |
| <b>GRAND TOTAL</b>                      |         |         |                                       |  |       |       |           |                                |                           | <b>22.528</b> |          |                      |                            |                             | <b>1,943</b>                              | <b>1,395</b>                                    | <b>32.38</b>  |   | <b>139,330</b>        | <b>38,805</b>                     | <b>2,000</b>               | <b>41,710</b>              | <b>8,075</b>                      | <b>315</b>                      | <b>41,965</b>       | <b>1,217</b>                  | <b>2,605</b>        | <b>220</b>   | <b>154</b>           | <b>159</b> | <b>6,476</b> | <b>648</b>   | <b>1</b>   |          |  |          |

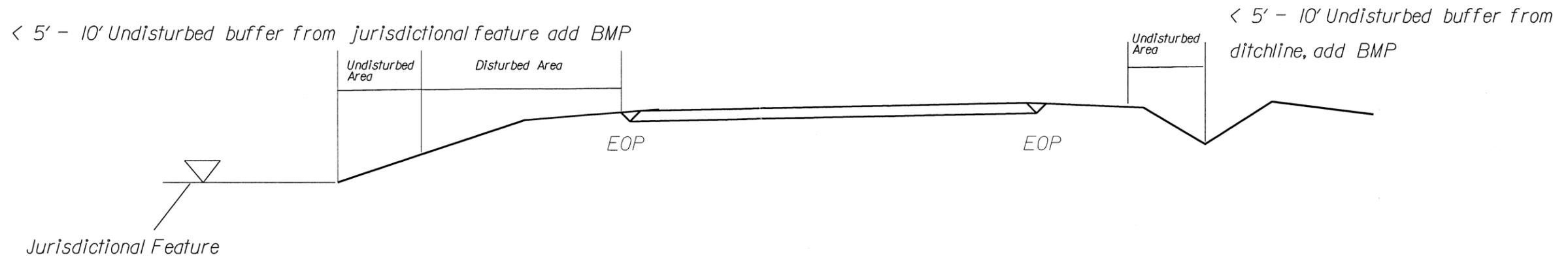
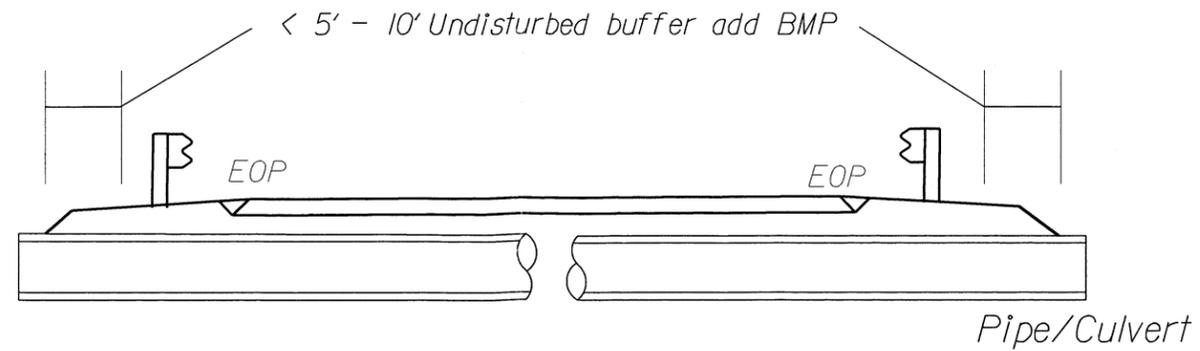


NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

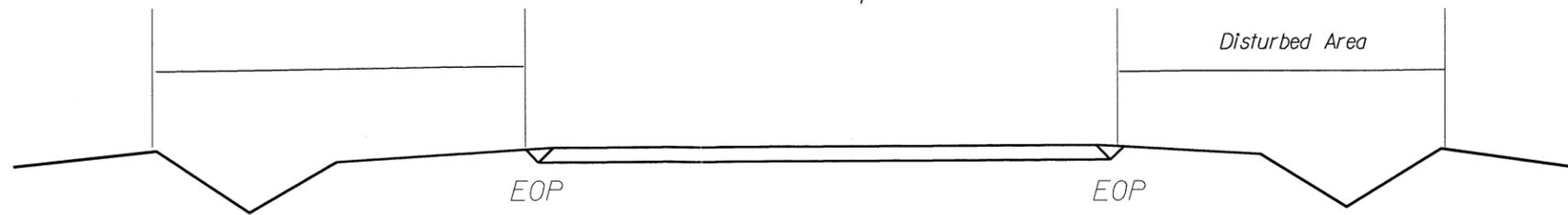
BMP Options: Wattle or Silt Fence

# EROSION CONTROL DETAIL

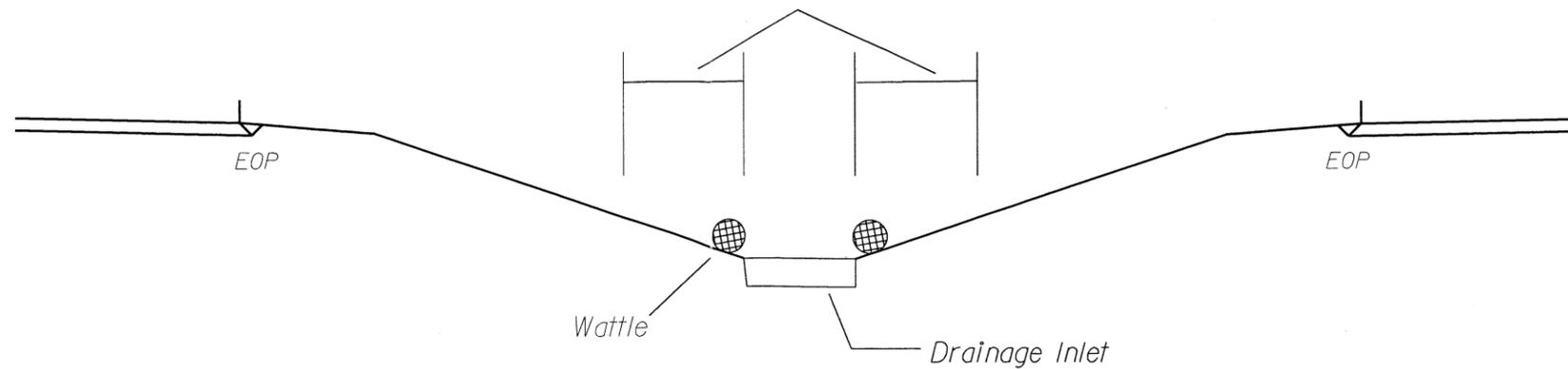
|                              |           |
|------------------------------|-----------|
| PROJECT REFERENCE NO.        | SHEET NO. |
| 9CR.10341.150, 9CR.20341.150 | EC-1      |



Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed



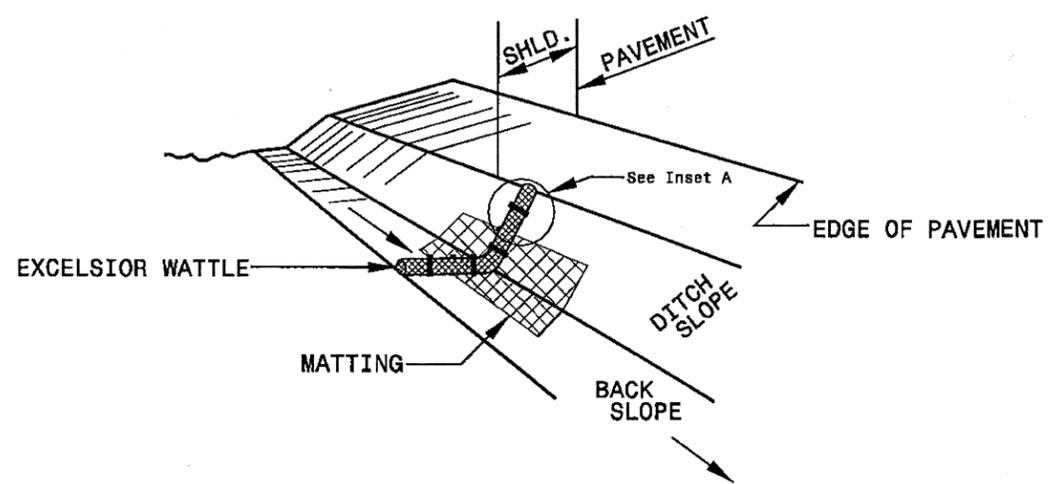
< 5' - 10' Undisturbed buffer from inlet, add wattle



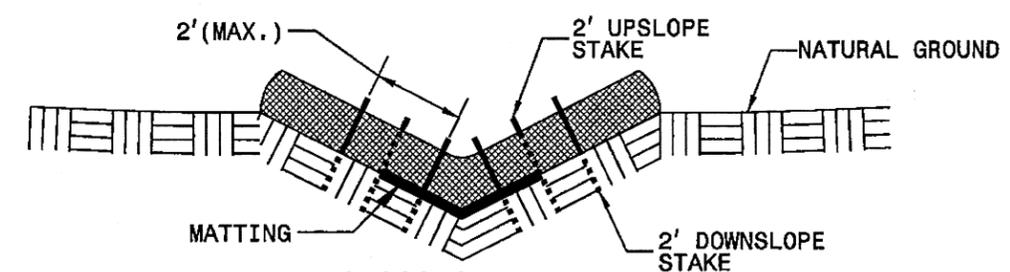
NOT TO SCALE

|   |                          |
|---|--------------------------|
| PROJECT REFERENCE NO.<br><b>9CR.10341.150</b> | SHEET NO.<br><b>EC-2</b> |
| ROADWAY DESIGN ENGINEER                       | HYDRAULICS ENGINEER      |

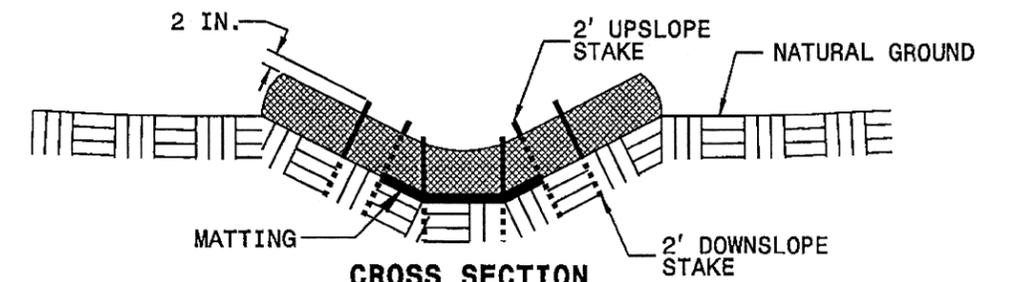
# WATTLE DETAIL



**ISOMETRIC VIEW**



**CROSS SECTION VEE DITCH**

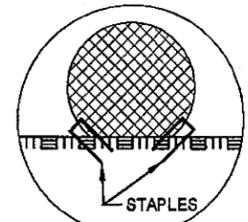


**CROSS SECTION TRAPEZOIDAL DITCH**

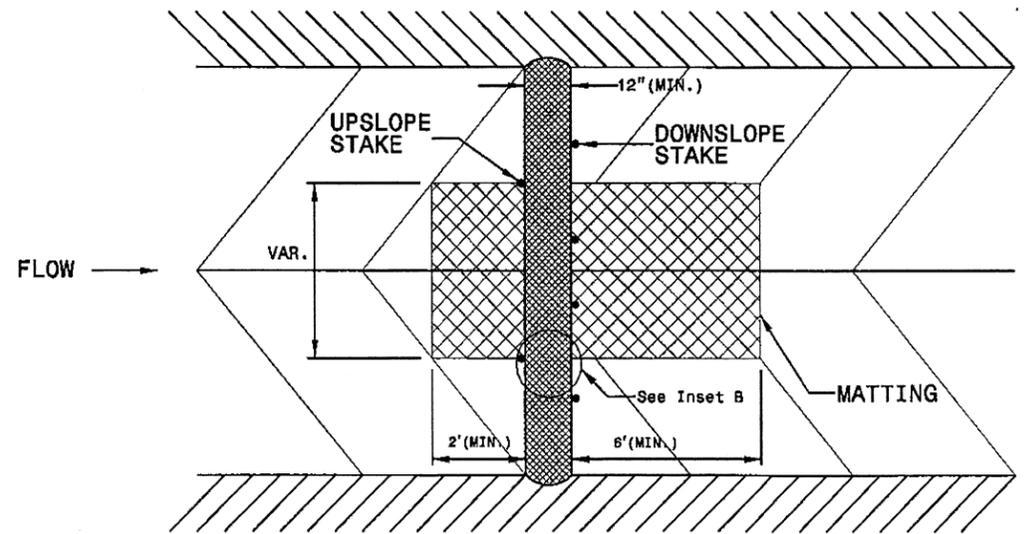
- NOTES:
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
  - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
  - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
  - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
  - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
  - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
  - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B



**TOP VIEW**