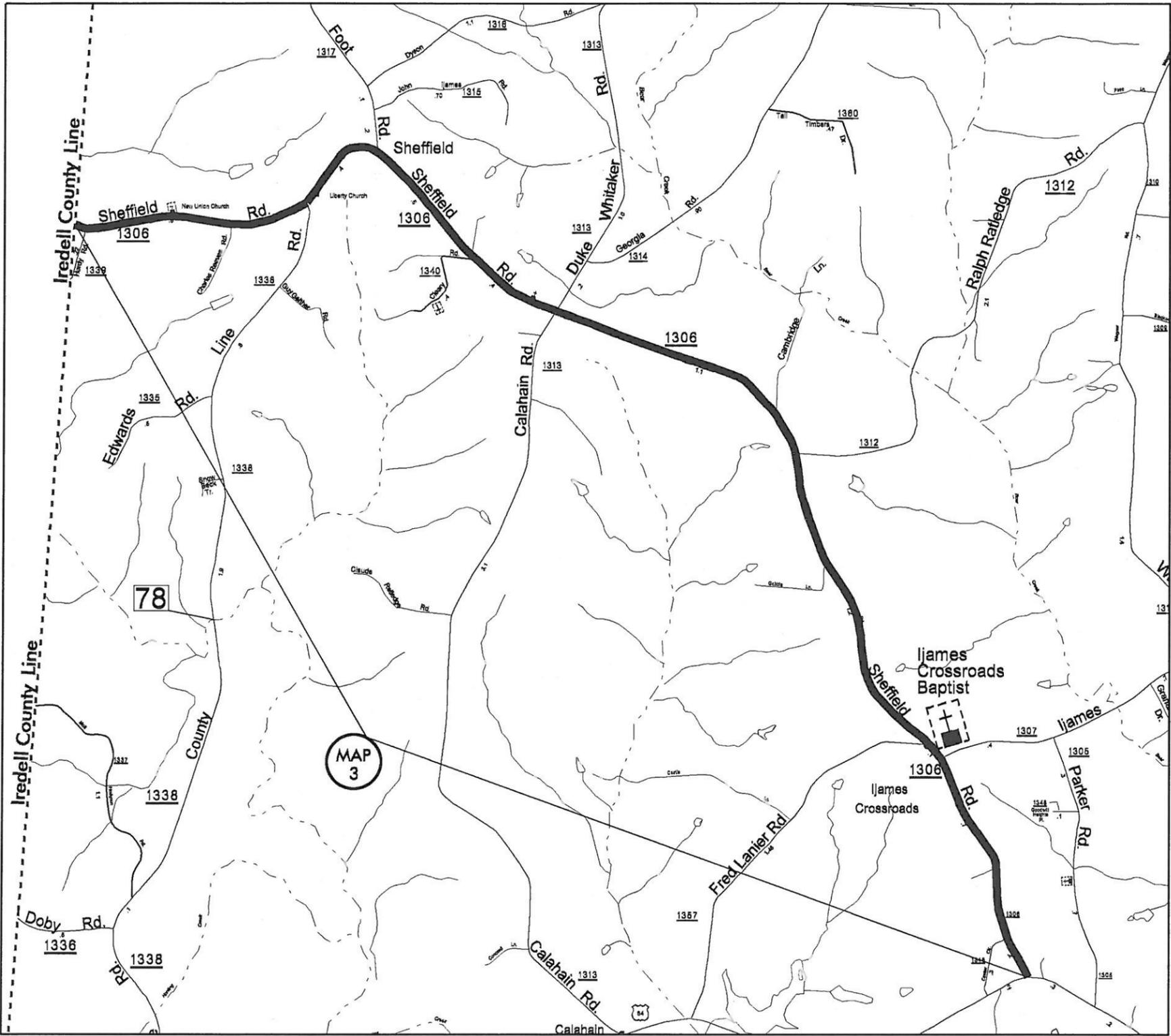


MAP NO. 1 US 64
MAP NO. 2 US 64

ALL Patching
ALL Milling
by NCDOT.

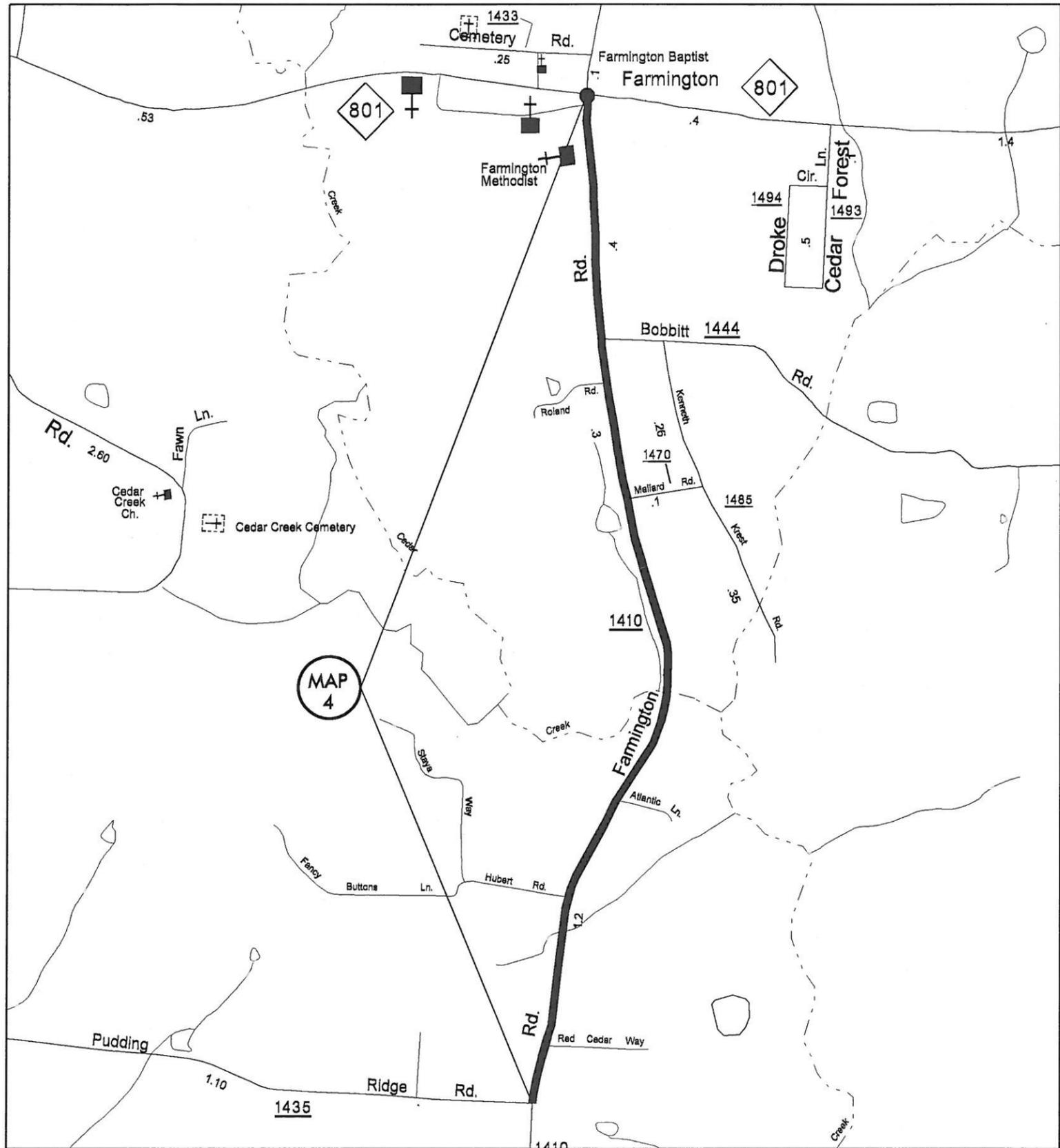
DAVIE COUNTY
NORTH CAROLINA



MAP NO. 3 Sheffield Rd. SR 1306

ALL Patching
ALL Milling
by NCDOT.

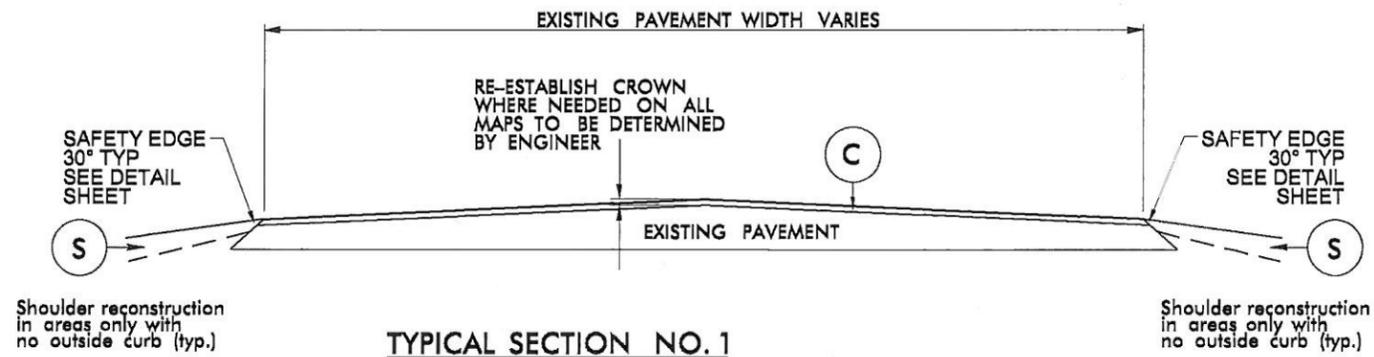
DAVIE COUNTY
NORTH CAROLINA



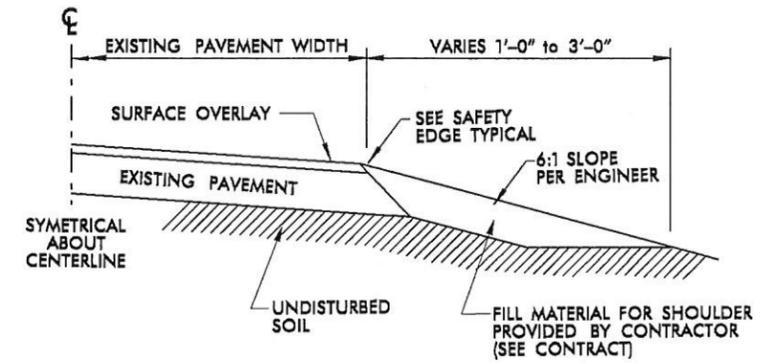
MAP NO. 4
Farmington Rd. SR 1410

ALL Patching
ALL Milling
by NCDOT.

DAVIE COUNTY
NORTH CAROLINA



TYPICAL SECTION NO. 1
MAP NO.1 US 64
MAP NO.2 US 64
MAP NO.3 SHEFFIELD RD. SR 1306
MAP NO.4 FARMINGTON RD. SR 1410

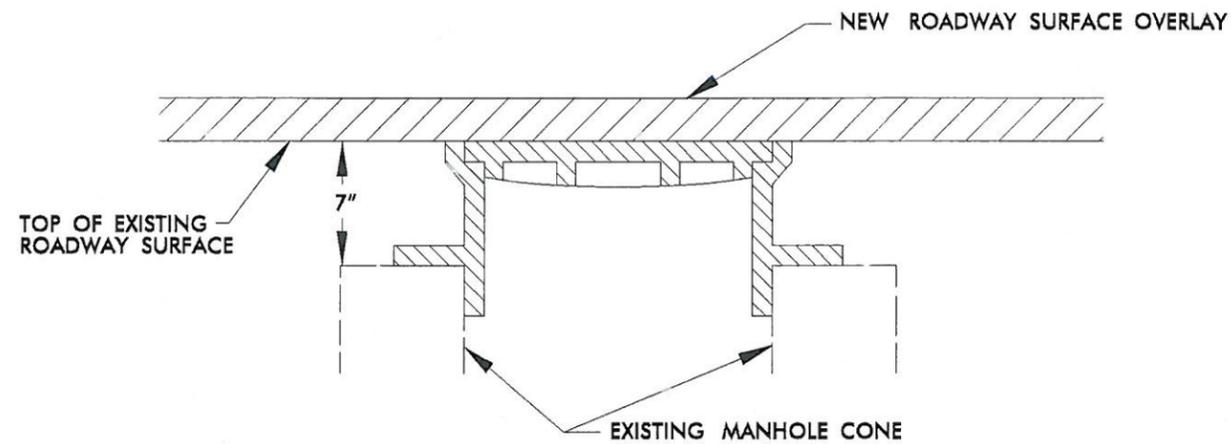


SHOULDER RECONSTRUCTION

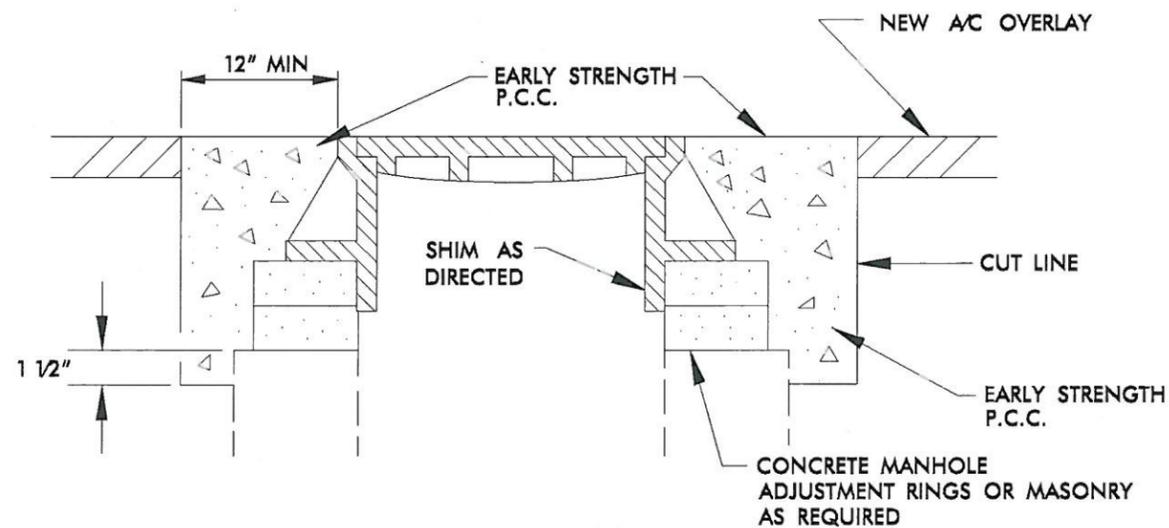
| PAVEMENT SCHEDULE | |
|-------------------|--|
| C | PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD |
| S | SHOULDER RECONSTRUCTION (SEE DETAIL) |
| U | EXISTING PAVEMENT |

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.
8. 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



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.

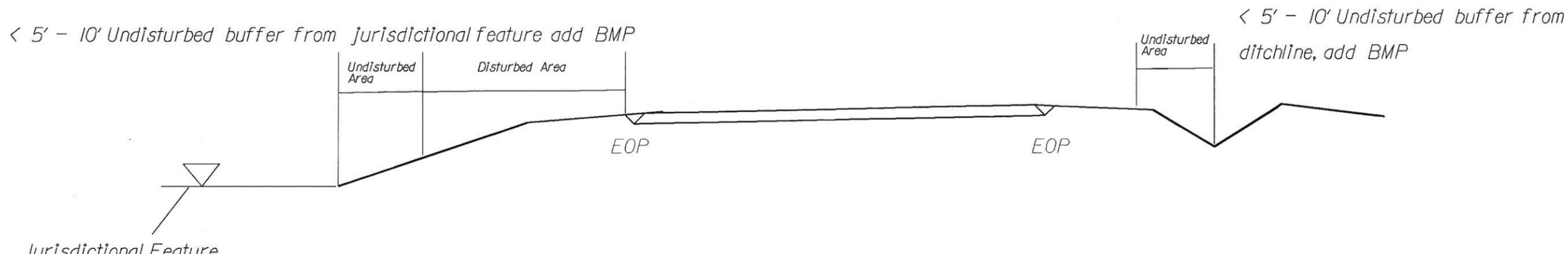
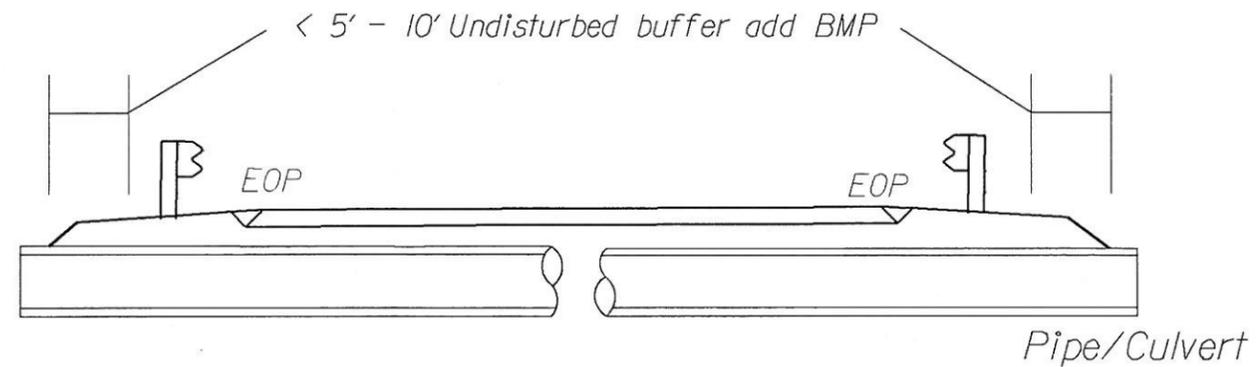
MANHOLE ADJUSTMENT DETAIL

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

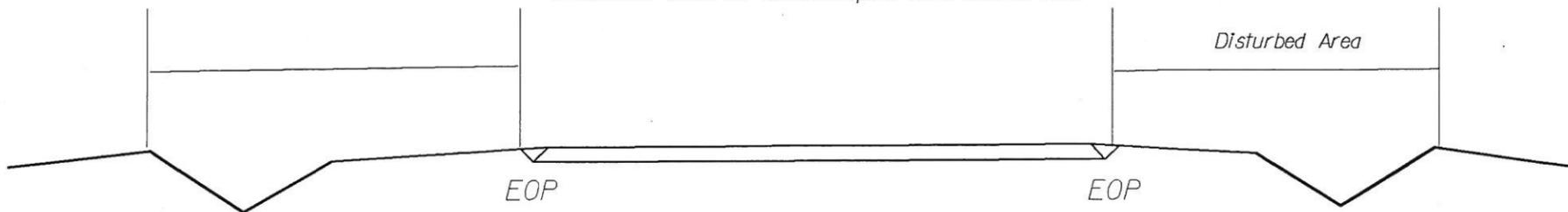
BMP Options: Wattle or Silt Fence

EROSION CONTROL DETAIL

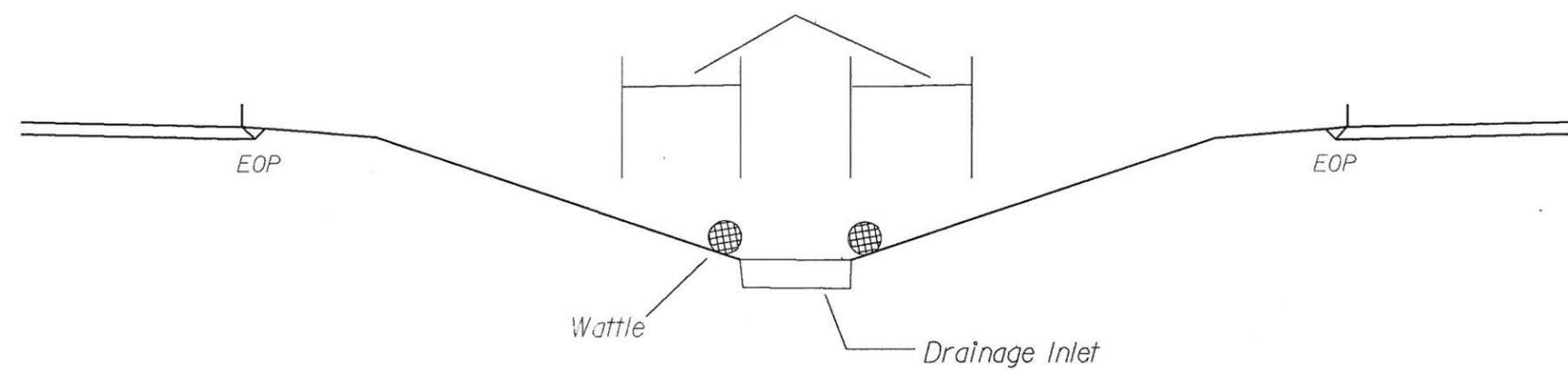
| | |
|--|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| 2016CPT.09.20.10301.1 2016CPT.09.21.20301.1 | 6 |



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

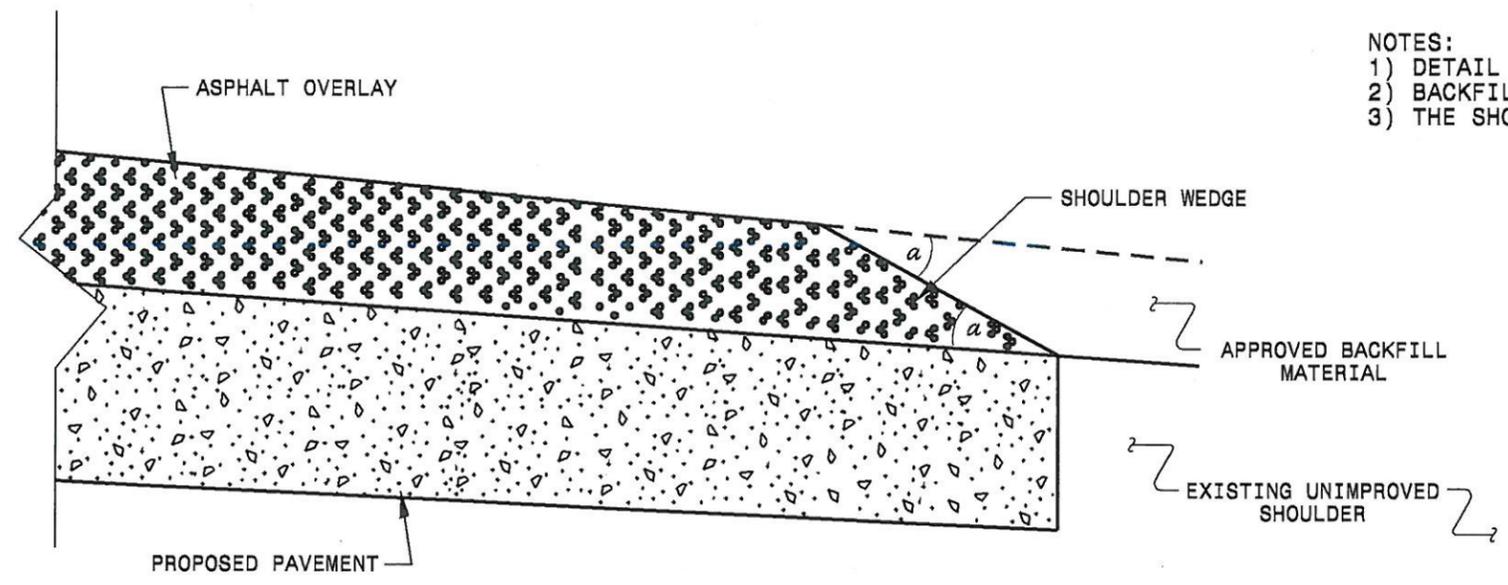


< 5' - 10' Undisturbed buffer from inlet, add wattle

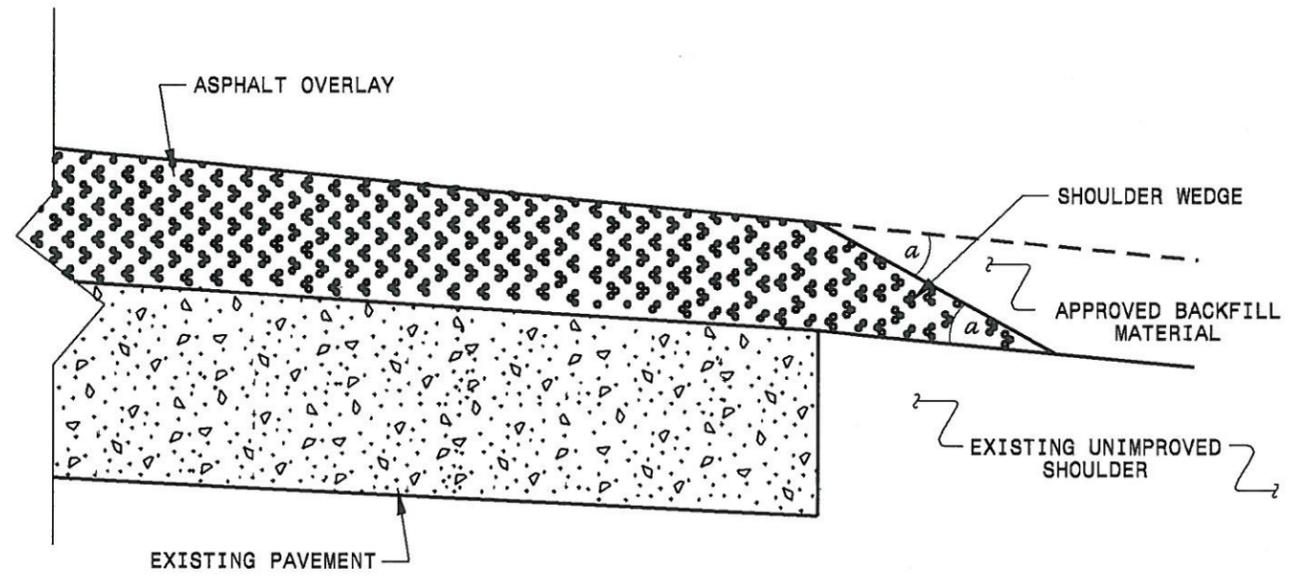


NOT TO SCALE

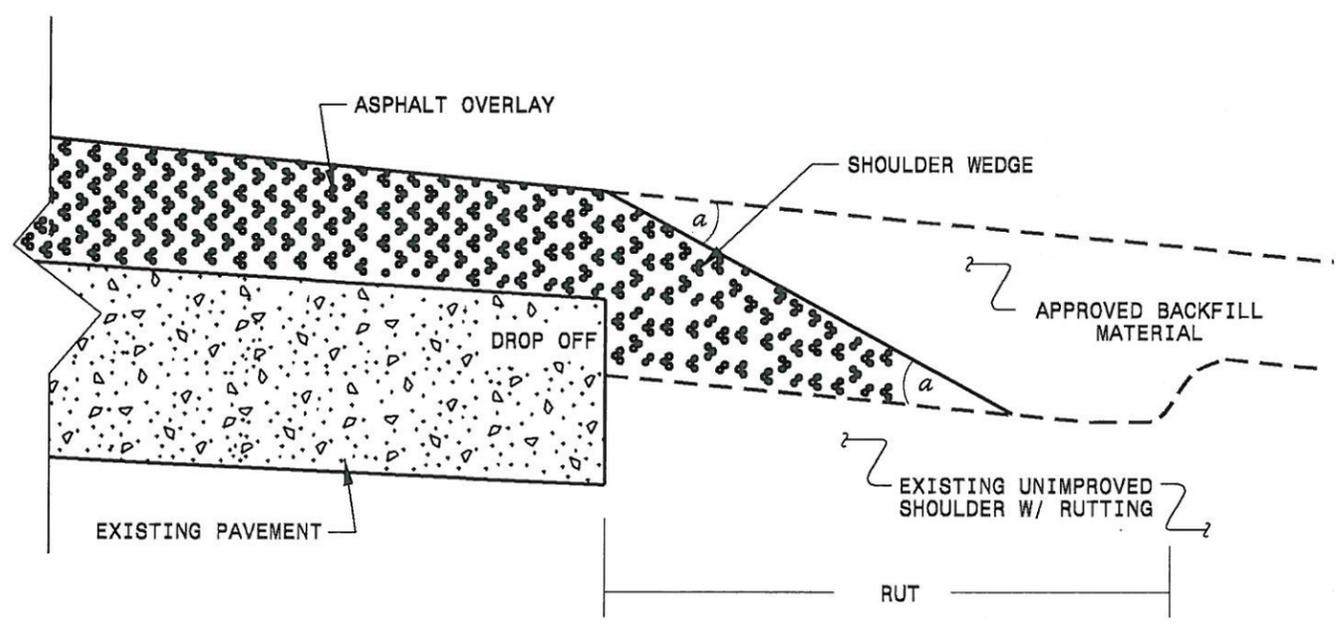
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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°

| | |
|---|------------------|
| CONTRACT STANDARDS AND DEVELOPMENT UNIT | |
| Office 919-707-8950 | FAX 919-250-4119 |
| SHOULDER WEDGE DETAILS | |
| ORIGINAL BY: T. SPELL | DATE: 7-19-11 |
| MODIFIED BY: | DATE: 10/18/12 |
| CHECKED BY: | DATE: |
| FILE SPEC.: \\user\details\stand\shoulderwedge\detail.dgn | |

08-APR-2016 11:30 C:\00-User\p\2017\Resurfacing\Device\2017_Revise\REVISED Shoulder Wedge Detail.dgn

DAVIE Resurfacing Bridge List

| | | | | | | | | | | PROJECT NO. | | SHEET NO. | |
|---------|-----------|------------|------------|---------------------|--------------------|--------------------------|----------------------------------|--------------------------|-----------------------------|-----------------------|---------|--|--|
| | | | | | | | | | | 2016CPT.09.20.10301.1 | | 8 | |
| | | | | | | | | | | 2016CPT.09.21.20301.1 | | | |
| 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 | |
| 2 | US 64 | US 64 | 3 | HUNTING CREEK | PPCCS, 3.5 AWS | 30 | NA | NA | NA | 302 | NA | NCDOT TO DO ALL MILLING | |

| PROJECT NO. | SHEET NO. | TOTAL NO. |
|-----------------------|-----------|-----------|
| 2016CPT.09.20.10301.1 | 9 | |
| 2016CPT.09.21.20301.1 | | |

SUMMARY OF QUANTITIES

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | 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 | SURFACE COURSE, S9.5B TONS | ASPHALT BINDER FOR PLANT MIX TONS | PATCHING EXISTING PAVEMENT TONS | TEMPORARY SILT FENCE LF | WATTLE LF |
|---|--------|--------|------------------------|--|--------|-------|-----------|--------------------------------|---------------------------|---------------|----------|----------------------|----------------------------|-----------------------------|----------------------------|-----------------------------------|---------------------------------|-------------------------|------------|
| 2016CPT.09.20.10301.1 | Davie | 1 | US 64 | FROM IREDELL COUNTY LINE TO NORTH RADIUS PT. OF NC 901 THROUGH INTERSECTION AT DAVIE ACADEMY RIDGE RD. SR 1147 | 1 | 2 | 2WU | NO | NO | 2.159 | 25 | 259 | 165 | 4.32 | 3,074 | 184 | 100 | 864 | 86 |
| TOTAL FOR MAP NO. 1 | | | | | | | | | | 2.159 | | 259 | 165 | 4.32 | 3,074 | 184 | 100 | 864 | 86 |
| 2016CPT.09.20.10301.1 | Davie | 2 | US 64 | FROM NORTH RADIUS PT. OF NC 901 AT INTERSECTION OF DAVIE ACADEMY RIDGE RD. SR 1147 TOPAVEMENT JT. BEFORE FRED LANIER SR 1357 | 1 | 2 | 2WU | NO | NO | 2.187 | 25 | 262 | 132 | 4.37 | 3,114 | 187 | | 875 | 87 |
| TOTAL FOR MAP NO. 2 | | | | | | | | | | 2.187 | | 262 | 132 | 4.37 | 3,114 | 187 | | 875 | 87 |
| TOTAL FOR PROJ NO. 2017CPT.09.03.10301.1 | | | | | | | | | | 4.346 | | 521 | 297 | 8.69 | 6,188 | 371 | 100 | 1,739 | 173 |
| 2016CPT.09.21.20301.1 | Davie | 3 | SHEFFIELD RD. SR 1306 | FROM US 64 TO IREDELL CO.LINE | 1 | 2 | 2WU | NO | NO | 5.404 | 22 | 648 | 339 | 10.81 | 6,776 | 407 | | 2,162 | 216 |
| TOTAL FOR MAP NO. 3 | | | | | | | | | | 5.404 | | 648 | 339 | 10.81 | 6,776 | 407 | | 2,162 | 216 |
| 2016CPT.09.21.20301.1 | Davie | 4 | FARMINGTON RD. SR 1410 | FROM PUDDING RIDGE RD. SR 1435 TO NC 801 | 1 | 2 | 2WU | NO | NO | 1.876 | 21 | 225 | 171 | 3.75 | 2,246 | 135 | | 750 | 75 |
| TOTAL FOR MAP NO. 4 | | | | | | | | | | 1.876 | | 225 | 171 | 3.75 | 2,246 | 135 | | 750 | 75 |
| TOTAL FOR PROJ NO. 2017CPT.09.04.20301.1 | | | | | | | | | | 7.28 | | 873 | 510 | 14.56 | 9,022 | 542 | | 2,912 | 291 |
| GRAND TOTAL | | | | | | | | | | 11.626 | | 1,394 | 807 | 23.25 | 15,210 | 913 | 100 | 4,651 | 464 |

NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.

| PROJECT NO. | SHEET NO. | TOTAL NO. |
|---|-----------|-----------|
| 2016CPT.09.20.10301.1, 2016CPT.09.21.20301.1 | 10 | |

THERMOPLASTIC AND PAINT QUANTITIES

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP | LANES | LANE TYPE | LENGTH | WIDTH | 4413000000-E | 4457000000-N | 4685000000-E | 4686000000-E | | | 4847000000-E | | 4905000000-N |
|---|--------|--------|------------------------|--|-----|-------|---------------|--------|-------|--|---------------------------------------|------------------------------------|--------------------------------------|-------------------------------------|--|---|-----------------------------------|--------------|
| | | | | | | | | | | WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF | TEMPORARY TRAFFIC CONTROL LS | 4" X 90 M WHITE THERMO LF | 4" X 120 M YELLOW THERMO LF | 4" X 120 M WHITE THERMO LF | 4" WHITE POLYUREA (HIGHLY REFLECTIVE ELEMENTS) LF | 4" YELLOW POLYUREA (HIGHLY REFLECTIVE ELEMENTS) LF | SNOW PLOWABLE MARKERS EA | |
| 2016CPT.09.20.10301.1 | Davie | 1 | US 64 | FROM IREDELL COUNTY LINE TO NORTH RADIUS PT. OF NC 901 THROUGH INTERSECTION AT DAVIE ACADEMY RIDGE RD. SR 1147 | 1 | 2 | 2WU | 2.159 | 25 | 1,302 | 1 | | | | 23,381 | 22,799 | 285 | |
| TOTAL FOR MAP NO. 1 | | | | | | | 2.159 | | | 1,302 | 1 | | | | 23,381 | 22,799 | 285 | |
| 2016CPT.09.20.10301.1 | Davie | 2 | US 64 | FROM NORTH RADIUS PT. OF NC 901 AT INTERSECTION OF DAVIE ACADEMY RIDGE RD. SR 1147 TOPAVEMENT JT. BEFORE FRED LANIER SR 1357 | 1 | 2 | 2WU | 2.187 | 25 | | | | | | 23,552 | 23,095 | 289 | |
| TOTAL FOR MAP NO. 2 | | | | | | | 2.187 | | | | | | | | 23,552 | 23,095 | 289 | |
| TOTAL FOR PROJ NO. 2017CPT.09.03.10301.1 | | | | | | | 4.346 | | | 1,302 | 1 | | | | 46,933 | 45,894 | 574 | |
| 92,827 | | | | | | | | | | | | | | | | | | |
| 2016CPT.09.21.20301.1 | Davie | 3 | SHEFFIELD RD. SR 1306 | FROM US 64 TO IREDELL CO.LINE | 1 | 2 | 2WU | 5.404 | 22 | | | 58,147 | 57,066 | 26 | | | | |
| TOTAL FOR MAP NO. 3 | | | | | | | 5.404 | | | | | 58,147 | 57,066 | 26 | | | | |
| 2016CPT.09.21.20301.1 | Davie | 4 | FARMINGTON RD. SR 1410 | FROM PUDDING RIDGE RD. SR 1435 TO NC 801 | 1 | 2 | 2WU | 1.876 | 21 | | | 20,186 | 19,811 | 20 | | | | |
| TOTAL FOR MAP NO. 4 | | | | | | | 1.876 | | | | | 20,186 | 19,811 | 20 | | | | |
| TOTAL FOR PROJ NO. 2017CPT.09.04.20301.1 | | | | | | | 7.28 | | | | | 78,333 | 76,877 | 46 | | | | |
| 76,923 | | | | | | | | | | | | | | | | | | |
| GRAND TOTAL | | | | | | | 11.626 | | | 1,302 | 1 | 78,333 | 76,877 | 46 | 46,933 | 45,894 | 574 | |
| 76,923 | | | | | | | | | | | | | | | | | | |
| 92,827 | | | | | | | | | | | | | | | | | | |

NOTE: All Quantities listed include turn lanes and are estimates; Payment will be based on actual field measurements and quantities received.