

PAMLICO CO.

PAMLICO COUNTY

RESURFACING CONTRACT:

DB00302

WBS:2017CPT.02.09.20691.1

LOCATION:

MAP 1 - SR-1103 FROM END MAINTENANCE TO NC-55.

MAP 2 - SR-1121 FROM END MAINTENANCE TO NC-306.

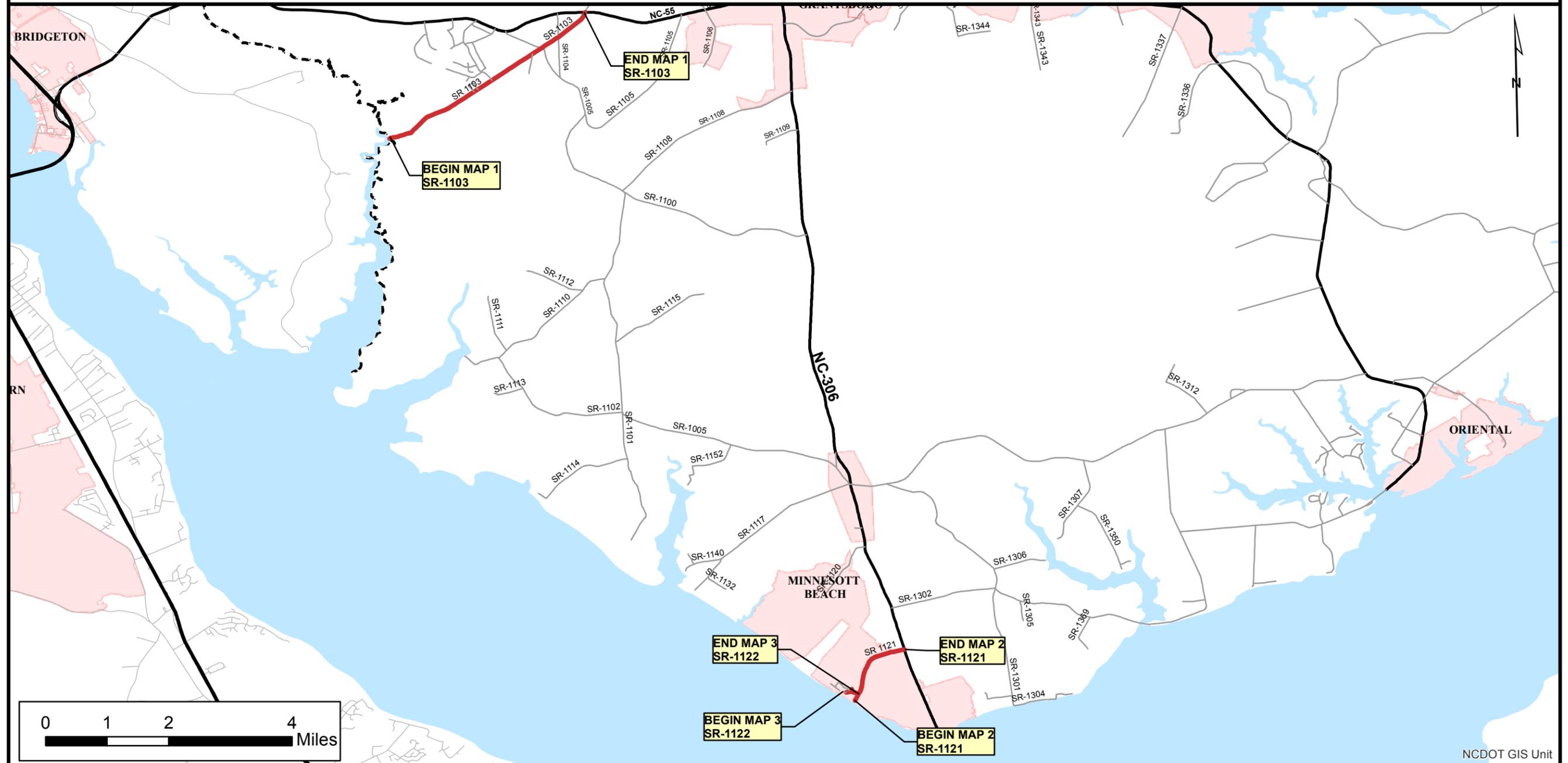
MAP 3 - SR-1122 FROM CUL-DE-SAC TO SR-1121

(INCLUDING DRIVEWAY ENTRANCE TO NCDOT STORAGE YARD. 50'+/-)

TYPE OF WORK: RESURFACING & SHOULDER RECONSTRUCTION.

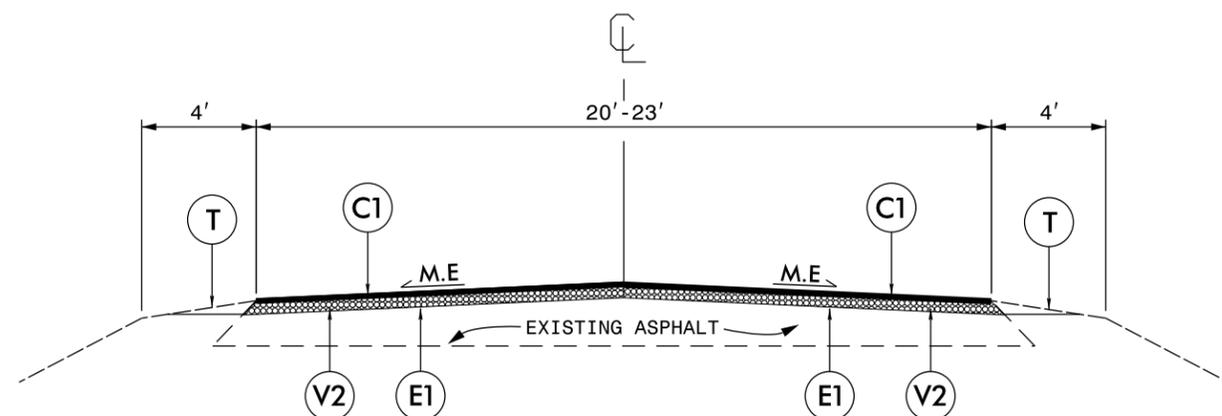


NCDOT
DIVISION 2



TYPICAL SECTION NO. 1

MAP 1 - SR-1103 FROM END MAINTENANCE(0+00) TO 845' S. OF NC-55(162+54).



NOTE:

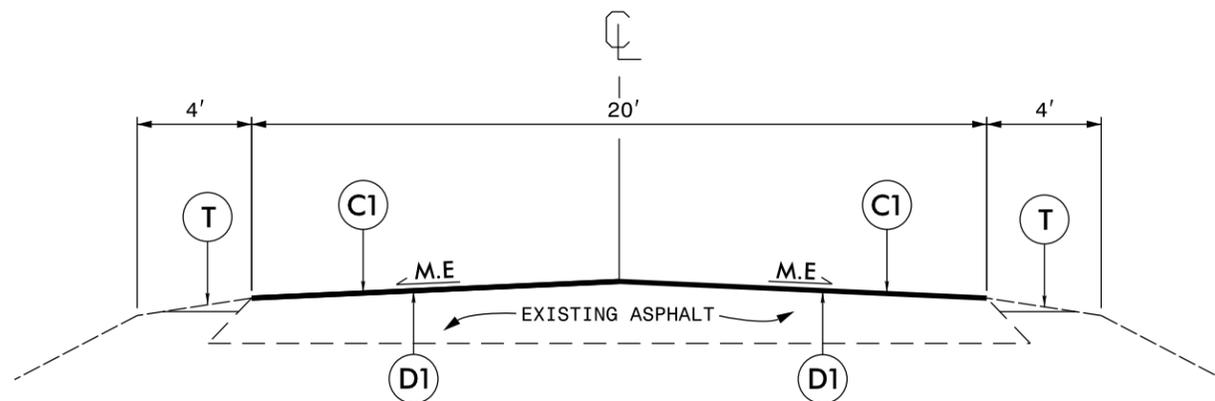
1. INCLUDES 6" MILL & FILL AT SPECIFIED LOCATIONS, SEE BELOW FOR PROPOSED MILLING LOCATIONS.
2. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.
2. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.

PROPOSED MILL & FILL LOCATIONS - MAP 1

| LT/RT CL | STATION | LENGTH | WIDTH FROM EP | LT/RT CL | STATION | LENGTH | WIDTH FROM EP |
|----------|-----------------|--------|---------------|----------|-----------------|--------|---------------|
| LT | 129+18 - 134+65 | 547 | 5 | RT | 130+27 - 132+63 | 236 | 5 |
| LT | 136+05 - 142+32 | 627 | 5 | RT | 132+63 - 134+37 | 174 | 10 |
| LT | 157+68 - 161+82 | 417 | 10 | RT | 134+37 - 139+87 | 550 | 5 |
| | | | | RT | 140+88 - 142+32 | 144 | 10 |
| | | | | RT | 144+17 - 154+97 | 1080 | 5 |
| | | | | RT | 154+97 - 157+68 | 271 | 10 |
| | | | | RT | 157+68 - 161+85 | 417 | 10 |

TYPICAL SECTION NO. 2

MAP 2 - SR-1121 FROM END MAINTENANCE(0+00) TO NC-306(62+07).



NOTE 1:

1. INCLUDES FULL WIDTH, VAR. DEPTH I19.0B LEVELING COURSE, AS DIRECTED BY THE ENGINEER, AT THE FOLLOWING AREAS:
 - MAP 2 FROM STA. 43+10+/- - 44+10+/-
 - Y-LINE TIE-IN AT SR-1121 AND COUNTRY CLUB DRIVE.
2. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.
3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.

PAVEMENT SCHEDULE

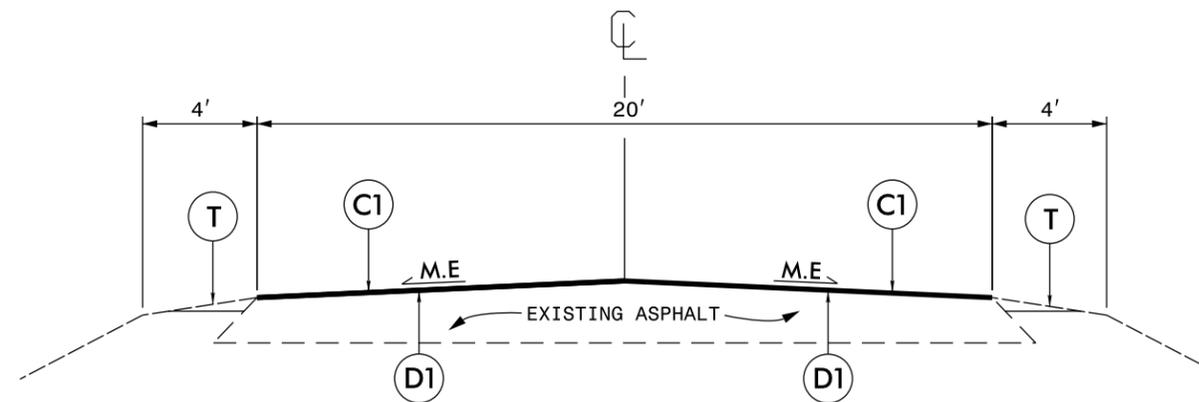
| | |
|----|--|
| C1 | PROP. APPROX. 1 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD. |
| D1 | PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT LESS THAT 2.5" OR GREATER THAT 4" IN DEPTH. |
| E1 | PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 684 LBS. PER SQ. YARD IN ONE SINGLE LAYER. |
| T | SHOULDER RECONSTRUCTION |
| V1 | INCIDENTAL MILLING. |
| V2 | MILLING DEPTH 6", FOR THE WIDTHS SHOWN IN THE ATTACHED TABLE. |

DRAWINGS NOT TO SCALE

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

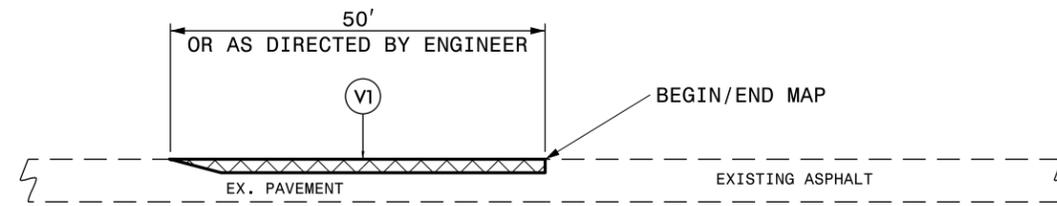
TYPICAL SECTION NO. 3

MAP 3 - SR-1122 FROM END MAINTENANCE(0+00) TO SR-1121(7+58).
NCDOT STORAGE YARD ACCESS ROAD - 0+00 TO 0+50.



NOTE 1:

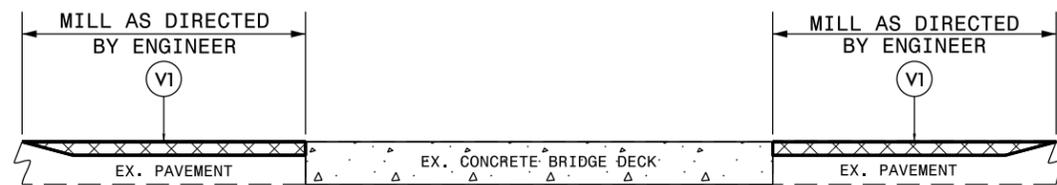
1. INCLUDES FULL WIDTH, VAR. DEPTH I19.0B LEVELING COURSE, AS DIRECTED BY THE ENGINEER, AT THE FOLLOWING AREAS:
 - MAP 3 FROM STA. 1+85+/- - 4+69+/-
 - DOT STORAGE YARD ACCESS ROAD - 0+00 - 0+18+/-
2. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.
3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.



DETAIL 1
BEGIN/END MAP TIE-IN

NOTE:

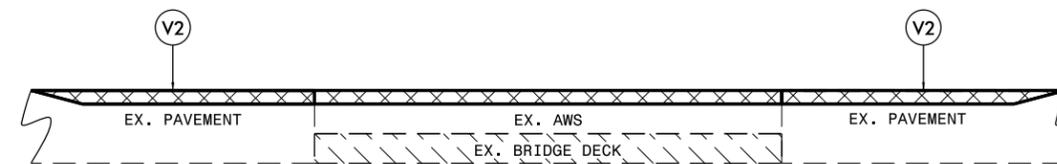
- MILLING SHALL BE PERFORMED AT MAIN LINE TIE-INS AND Y-LINE TIE-INS AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.



DETAIL 2
BRIDGE MILLING

NOTE:

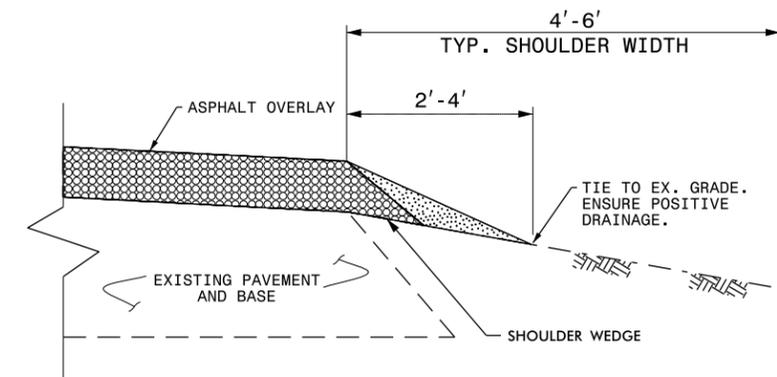
- MILLING SHALL BE PERFORMED AT THE BRIDGE APPROACHES AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.



DETAIL 3
BRIDGE MILLING

NOTE:

- MILLING SHALL BE PERFORMED AT THE BRIDGE APPROACHES AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.

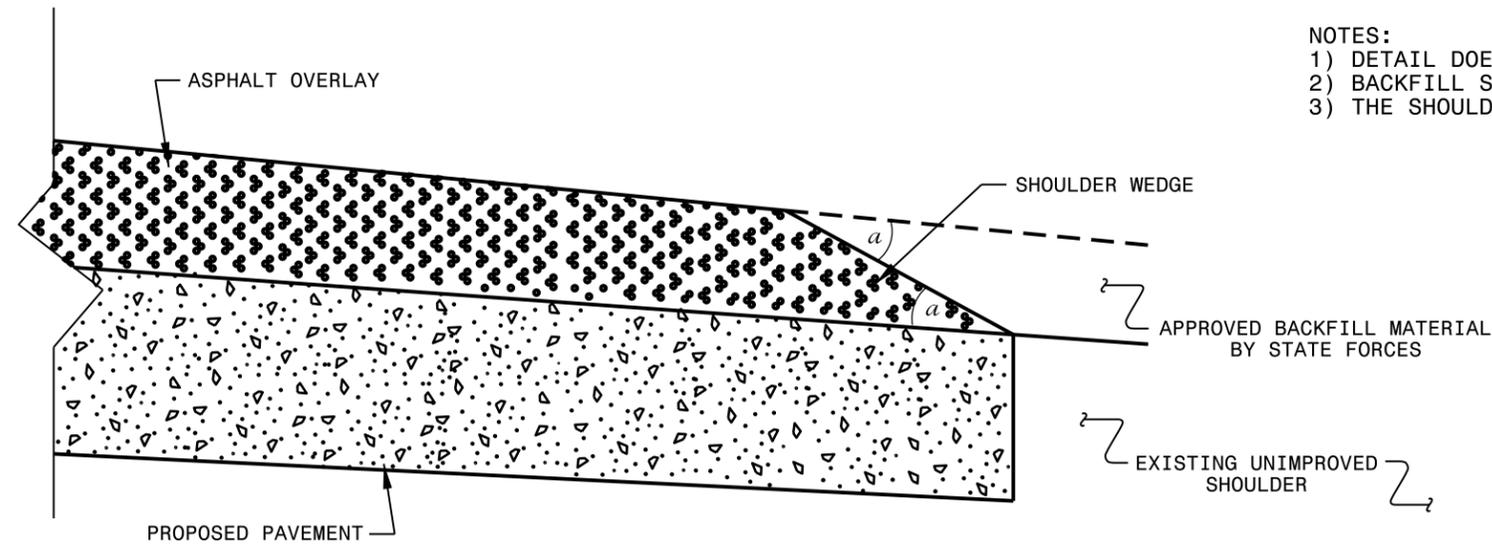


SHOULDER RECONSTRUCTION DETAIL

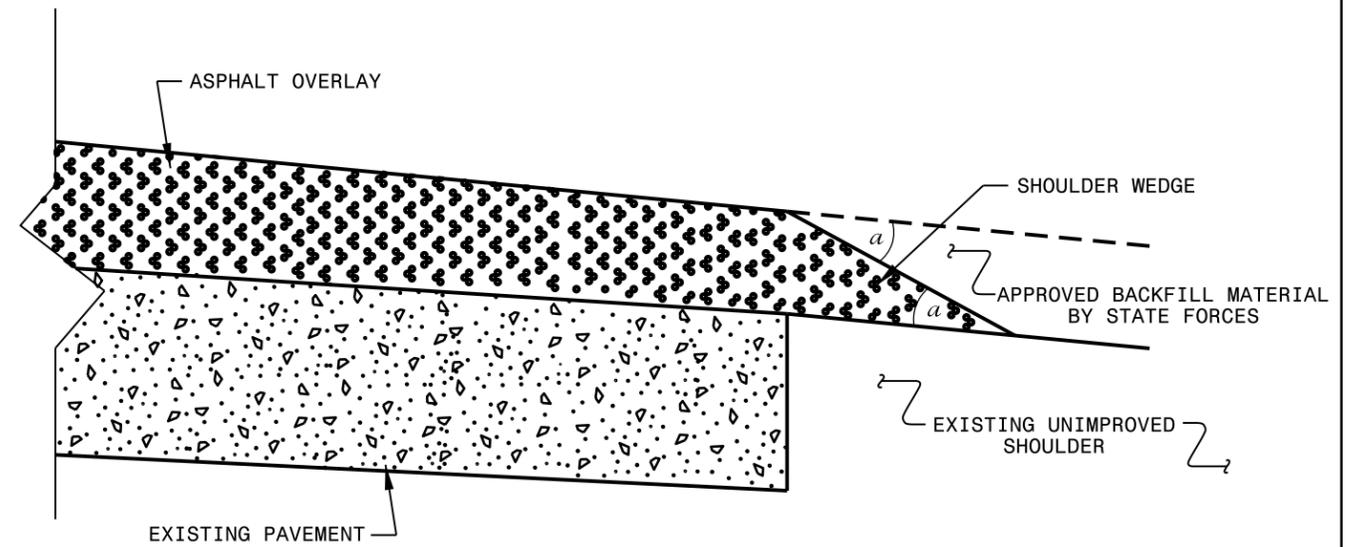
NOTE:

- SHOULDERS SHALL BE RECONSTRUCTED AS SHOWN IN STD. DWG. NO. 560.01 & 560.02, WITH A MINIMUM SLOPE OF 1" PER FOOT TO ENSURE POSITIVE DRAINAGE AWAY FROM THE ROADWAY.
- A VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN THE DISTURBED AREA ALONG THE EDGE OF PAVEMENT AND THE DITCH SHOULDER POINT TO MINIMIZE EROSION. PULLING DITCHES OR CUTTING SHOULDERS TO GENERATE BORROW MATERIAL WILL NOT BE ALLOWED.
- REQUIRED BORROW MATERIAL MAY BE OBTAINED FROM NCDOT STOCKPILES. ANY EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN APPROVED DISPOSAL SITE.

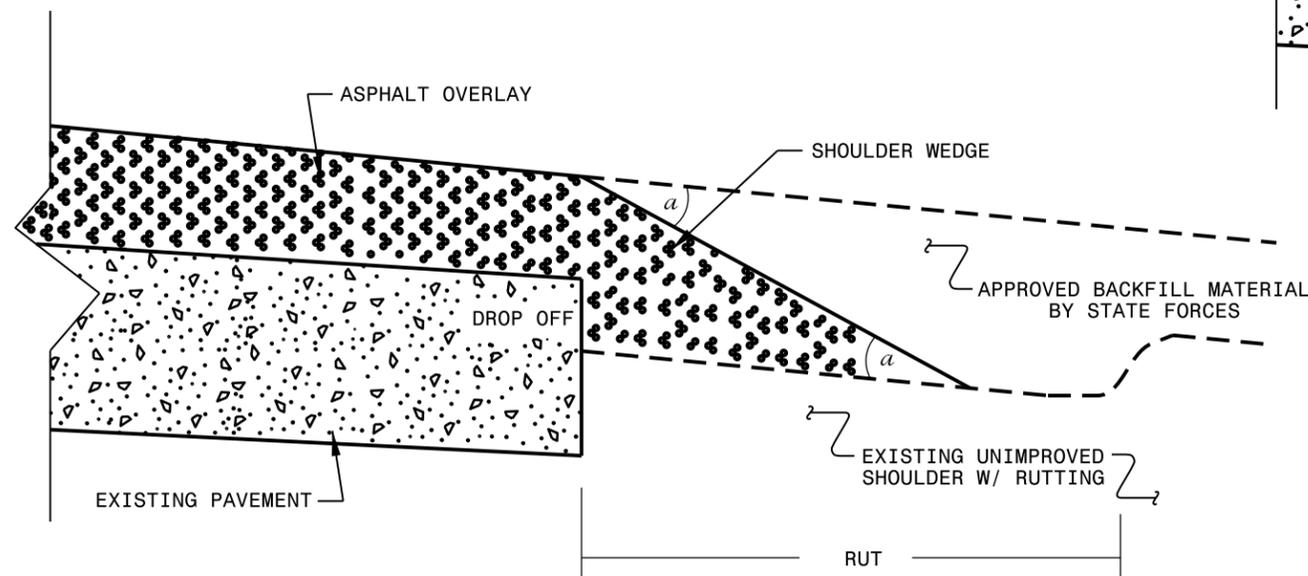
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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°

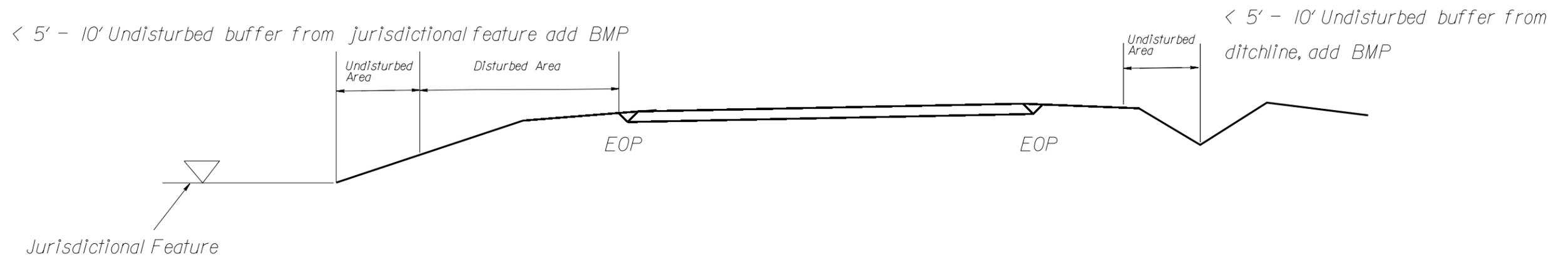
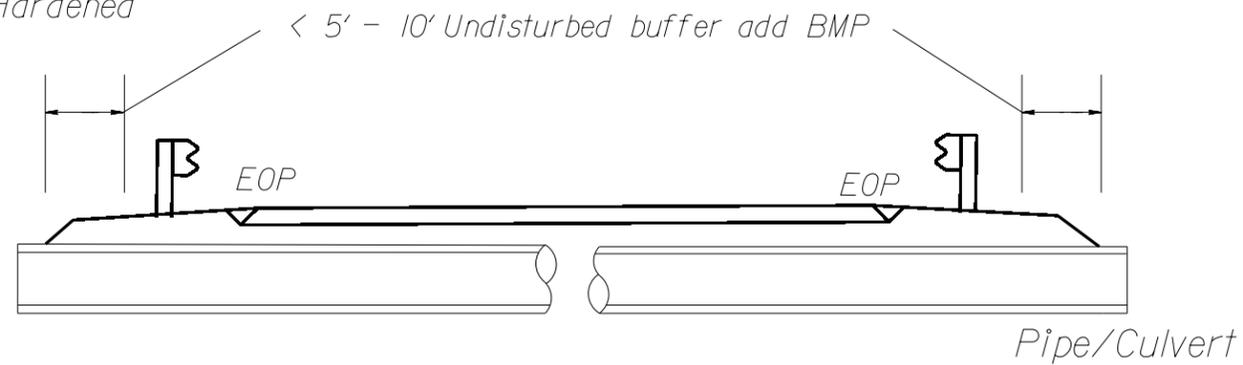
| | | | |
|---|----------------|------------------|--|
| CONTRACT STANDARDS AND DEVELOPMENT UNIT | | | |
| Office 919-707-6950 | | FAX 919-250-4119 | |
| SHOULDER WEDGE DETAILS | | | |
| ORIGINAL BY: T.SPELL | DATE: 7-19-11 | | |
| MODIFIED BY: | DATE: 10/16/12 | | |
| CHECKED BY: | DATE: | | |
| FILE SPEC.: szusr/details/stand/shoulderwedgedetail.dgn | | | |

24-MAR-2016 11:46
 S:\Contracts\Resurfacing Projects\Shoulder Wedge Details\Revised Shoulder Wedge Detail.dgn
 *****USERNAME*****

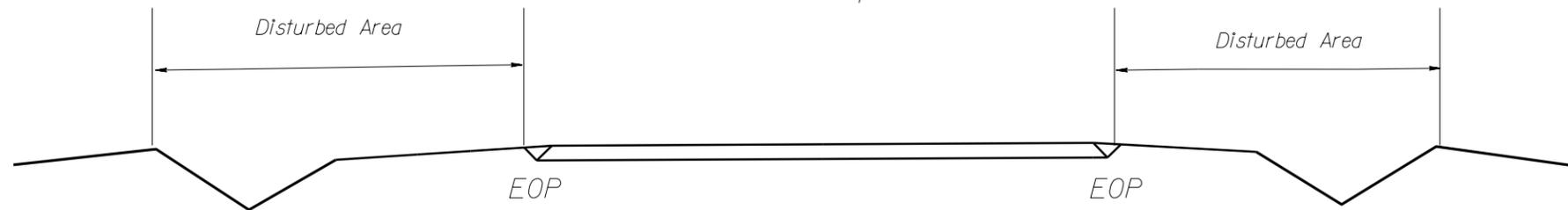
NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

BMP Options: Wattle, Silt Fence or Hardened Aggregate.

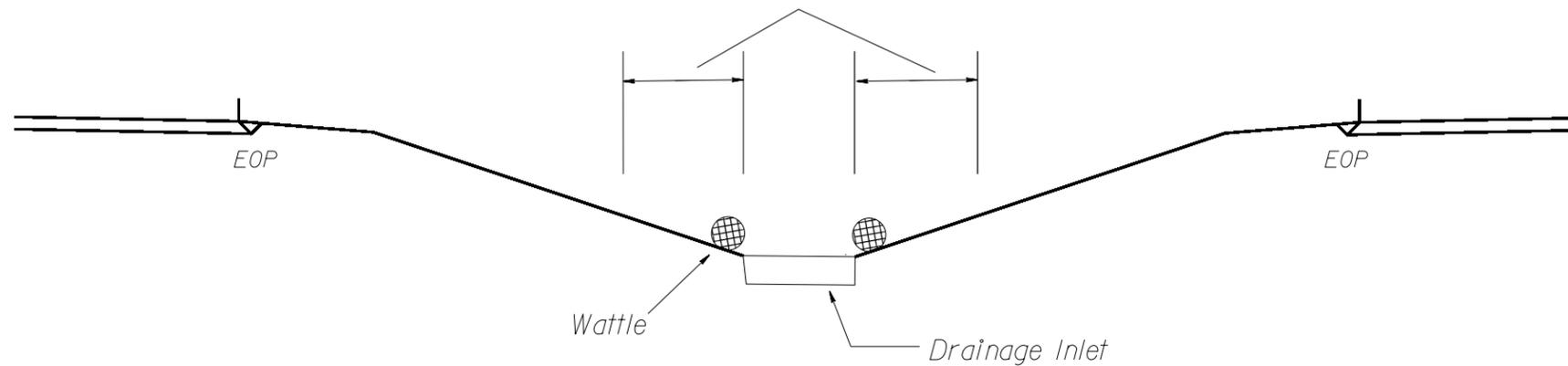
EROSION CONTROL DETAIL



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

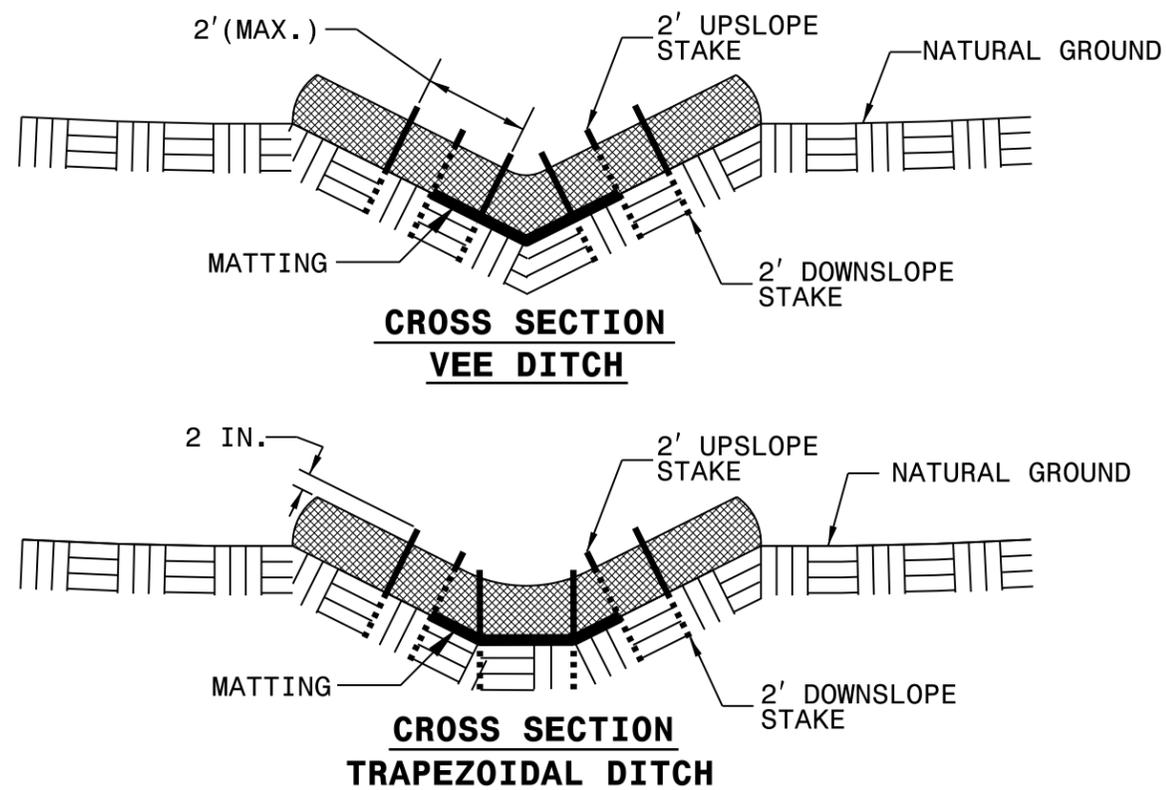
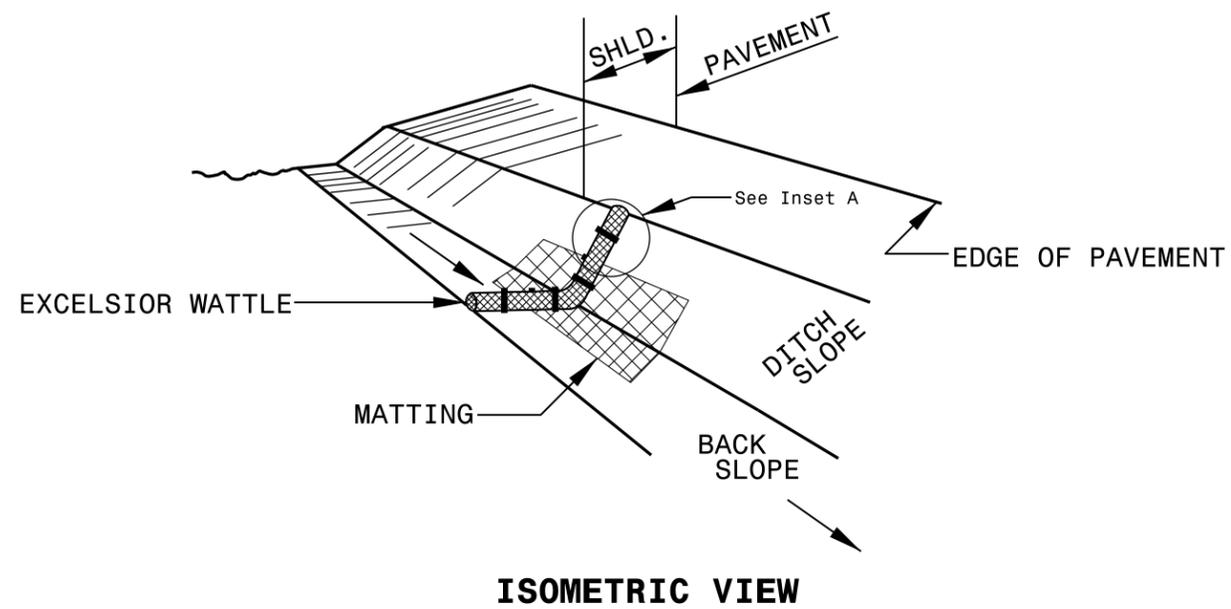


< 5' - 10' Undisturbed buffer from inlet, add wattle



NOT TO SCALE

WATTLE DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

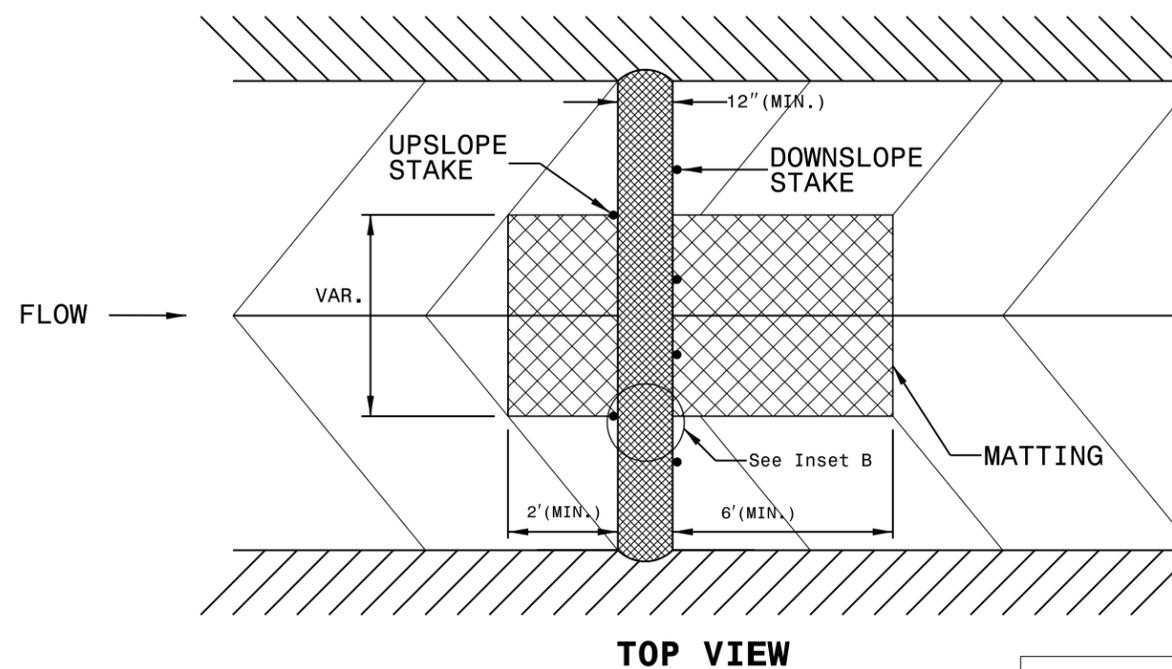
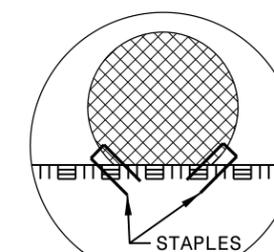
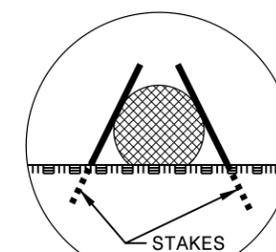
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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.



NOT TO SCALE

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 | HAULING NCDOT SUPPLIED SHOULDER LOAD | INCIDENTAL STONE BASE TONS | SHOULDER RECONSTRUCTION SMI | 6" MILLING SY | INCIDENTAL MILLING SY | BASE COURSE, B25.0B TONS | INTERMEDIATE COURSE, I19.0B TONS | SURFACE COURSE, SF9.5A TONS | ASPHALT BINDER FOR PLANT MIX TONS |
|--|---------|--------|---------|--------------------------------|--------|-------|-----------|--------------------------------|---------------------------|--------------|----------|--------------------------------------|----------------------------|-----------------------------|---------------|-----------------------|--------------------------|----------------------------------|-----------------------------|-----------------------------------|
| 2017.CPT.02.09.20691.1 | Pamlico | 1 | SR-1103 | FROM END MAINTENANCE TO NC-55 | 1 | 2 | 2WU | NO | NO | 2.408 | 21 | 90 | 100 | 6 | 3300 | 250 | 1250 | | 4000 | 323 |
| TOTAL FOR MAP NO. 1 | | | | | | | | | | 2.408 | | 90 | 100 | 6 | 3300 | 250 | 1250 | | 4000 | 323 |
| 2017.CPT.02.09.20691.1 | Pamlico | 2 | SR-1121 | FROM END MAINTENANCE TO NC-306 | 2 | 2 | 2WU | NO | NO | 1.176 | 20 | 35 | 20 | 3 | | 300 | | 83 | 1475 | 103 |
| TOTAL FOR MAP NO. 2 | | | | | | | | | | 1.176 | | 35 | 20 | 3 | 0 | 300 | 0 | 83 | 1475 | 103 |
| 2017.CPT.02.09.20691.1 | Pamlico | 3 | SR-1122 | FROM THE CUL-DE-SAC TO SR-1121 | 2 | 2 | 2WU | NO | NO | 0.144 | 1 | 5 | 12 | 1 | | 150 | | 110 | 210 | 19 |
| TOTAL FOR MAP NO. 3 | | | | | | | | | | 0.144 | | 5 | 12 | 1 | 0 | 150 | 0 | 110 | 210 | 19 |
| TOTAL FOR PROJ NO. 2017.CPT.02.09.20691.1 | | | | | | | | | | 3.728 | | 130 | 132 | 10 | 3300 | 700 | 1250 | 193 | 5685 | 445 |
| GRAND TOTAL | | | | | | | | | | 3.728 | | 130 | 132 | 10 | 3300 | 700 | 1250 | 193 | 5685 | 445 |

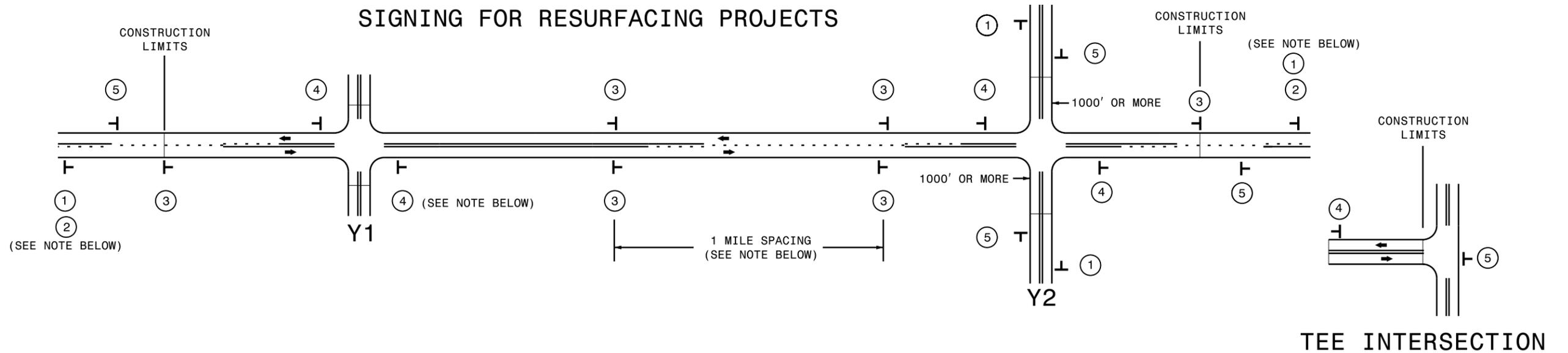
SUMMARY OF QUANTITIES

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | ADI. OF METER OR VALVE BOX EA | TEMPORARY SILT FENCE LF | WATTLE LF | SEED & MULCHING AC | RESPONSE FOR EROSION CONTROL EA |
|--|---------|--------|---------|--------------------------------|--------|-------|-----------|-------------------------------|-------------------------|--------------|--------------------|---------------------------------|
| 2017.CPT.02.09.20691.1 | Pamlico | 1 | SR-1103 | FROM END MAINTENANCE TO NC-55 | 1 | 2 | 2WU | 2 | 350 | 50.00 | 3.00 | 2 |
| TOTAL FOR MAP NO. 1 | | | | | | | | 2 | 350 | 50.00 | 3.00 | 2 |
| 2017.CPT.02.09.20691.1 | Pamlico | 2 | SR-1121 | FROM END MAINTENANCE TO NC-306 | 2 | 2 | 2WU | | 100 | 20.00 | 1.15 | 1 |
| TOTAL FOR MAP NO. 2 | | | | | | | | 0 | 100 | 20.00 | 1.15 | 1 |
| 2017.CPT.02.09.20691.1 | Pamlico | 3 | SR-1122 | FROM THE CUL-DE-SAC TO SR-1121 | 2 | 2 | 2WU | | 50 | 20.00 | 0.15 | 1 |
| TOTAL FOR MAP NO. 3 | | | | | | | | 0 | 50 | 20.00 | 0.15 | 1 |
| TOTAL FOR PROJ NO. 2017.CPT.02.09.20691.1 | | | | | | | | 2 | 500 | 90.00 | 4.30 | 4 |
| GRAND TOTAL | | | | | | | | 2 | 500 | 90.00 | 4.30 | 4 |

THERMOPLASTIC AND PAINT QUANTITIES

| PROJECT NO | COUNTY | MAP NO | ROUTE | DESCRIPTION | TYP NO | LANES | LANE TYPE | LENGTH | WIDTH | 4413000000-E | 4457000000-N |
|--|---------|--------|---------|--------------------------------|--------|-------|-----------|--------|-------|--|------------------------------|
| | | | | | | | | | | WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF | TEMPORARY TRAFFIC CONTROL LS |
| 2017.CPT.02.09.20691.1 | Pamlico | 1 | SR-1103 | FROM END MAINTENANCE TO NC-55 | 1 | 2 | 2WU | 2.408 | 21 | 270 | 1 |
| TOTAL FOR MAP NO. 1 | | | | | | | | | | 270 | 1 |
| 2017.CPT.02.09.20691.1 | Pamlico | 2 | SR-1121 | FROM END MAINTENANCE TO NC-306 | 2 | 2 | 2WU | 1.176 | 20 | 132 | 0 |
| TOTAL FOR MAP NO. 2 | | | | | | | | | | 132 | 0 |
| 2017.CPT.02.09.20691.1 | Pamlico | 3 | SR-1122 | FROM THE CUL-DE-SAC TO SR-1121 | 2 | 2 | 2WU | 0.144 | 1 | 18 | 0 |
| TOTAL FOR MAP NO. 3 | | | | | | | | | | 18 | 0 |
| TOTAL FOR PROJ NO. 2017.CPT.02.09.20691.1 | | | | | | | | | | 420 | 1 |
| GRAND TOTAL | | | | | | | | | | 420 | 1 |

SIGNING FOR RESURFACING PROJECTS



| LEGEND | |
|--------|---------------------------|
| T | STATIONARY SIGN |
| ← | DIRECTION OF TRAFFIC FLOW |

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

| SIGNING NOTES AND PLACEMENT PER DIRECTION | 1 | 2 | 3 | 4 | 5 | | |
|---|---|---|--|---|--|---|--|
| | | | | | | <p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> LESS THAN 1000' OF RESURFACING ALONG -Y- LINE SUBDIVISION ROADS DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;"> <small>W20-7 A 48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> | |
| | <p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p> <p>#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)</p> | | <p>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.</p> <p>- AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</p> | | <p>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS.</p> <p>- DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</p> <p>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</p> <p>- FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH.</p> <p>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</p> <p>- FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.</p> | | |
| | <p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</p> | | | | | | |
| | | | | | | | |
| | | | | | | | |



RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS