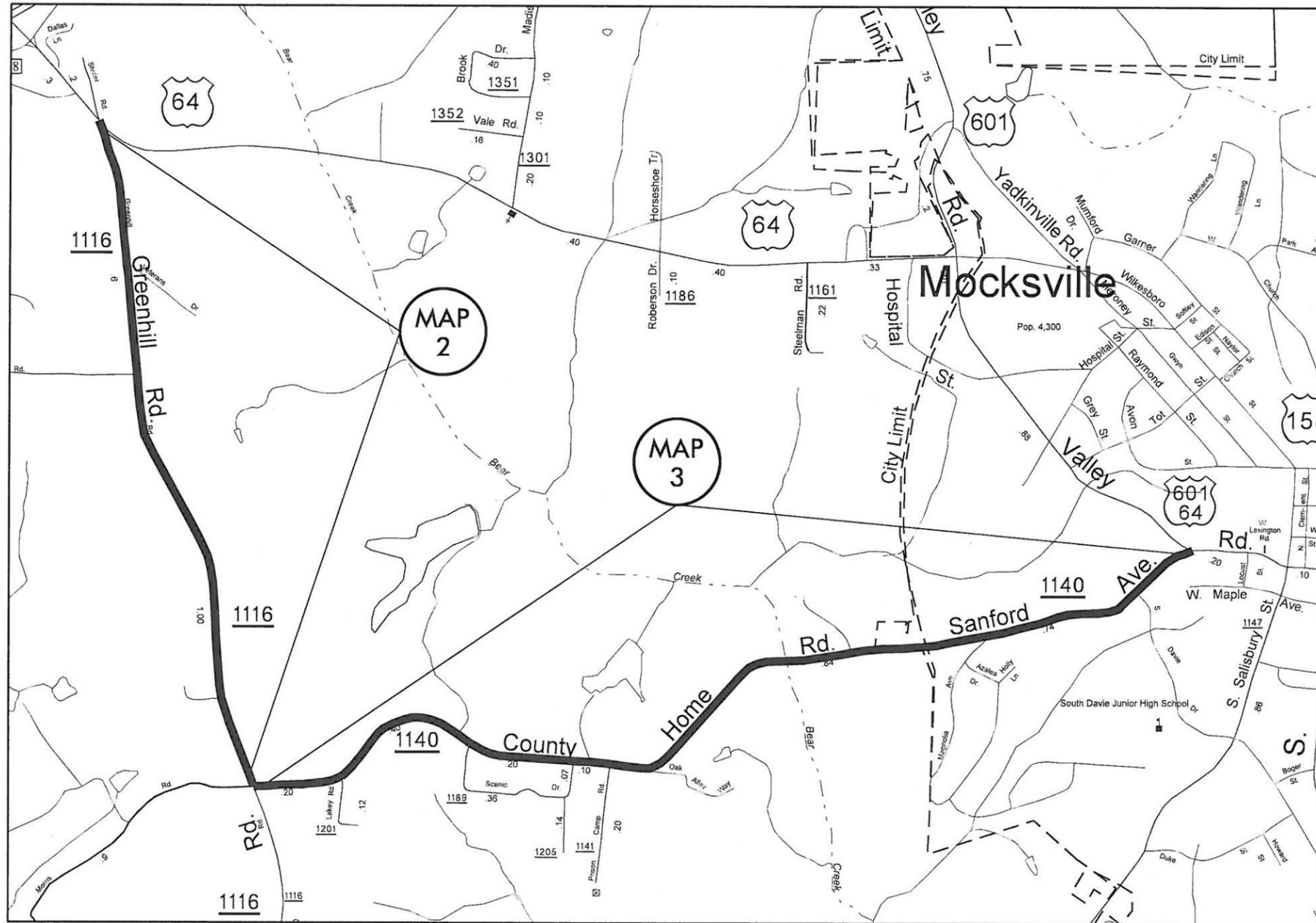


MAP NO. 1  
 US 601  
 NCDOT To do ALL Milling.  
 Pave Existing Shoulders.  
 Maintain existing Travel Lane widths.

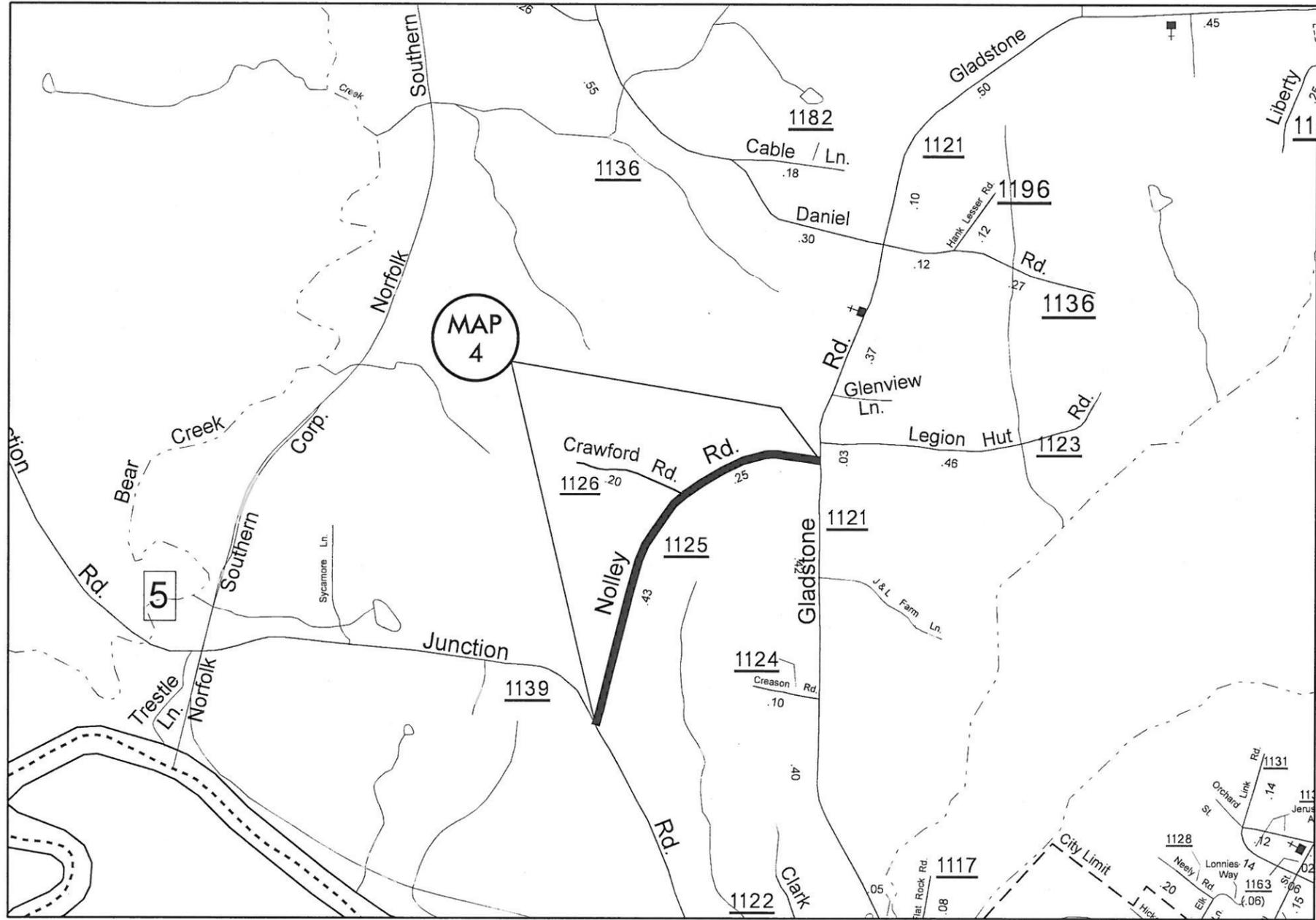
**DAVIE COUNTY**  
 NORTH CAROLINA



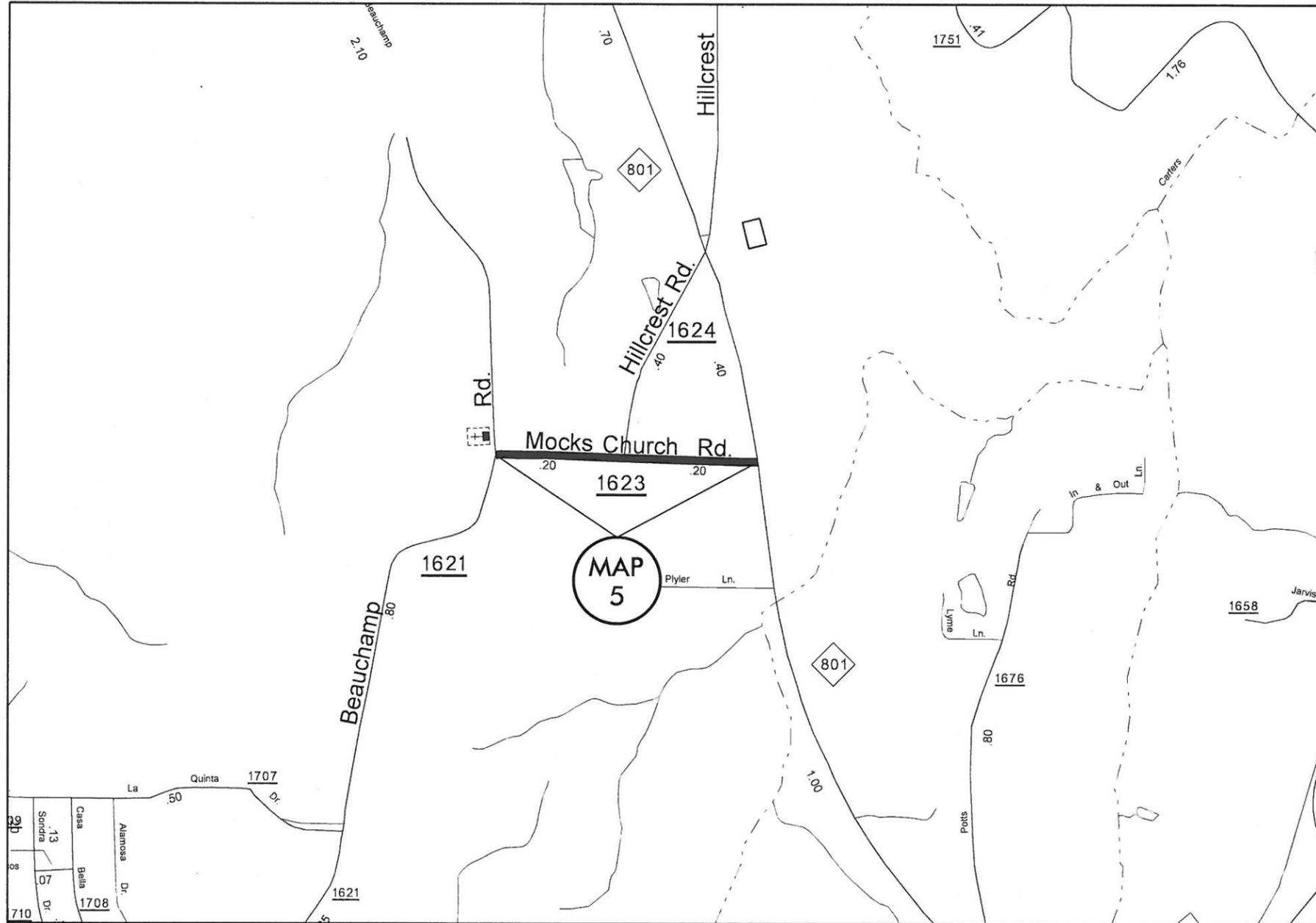
MAP NO. 2  
 Greenhill Road SR 1116  
 NCDOT To do ALL Milling.

MAP NO. 3  
 County Home Road/Sanford Avenue SR 1140  
 NCDOT To do ALL Milling.

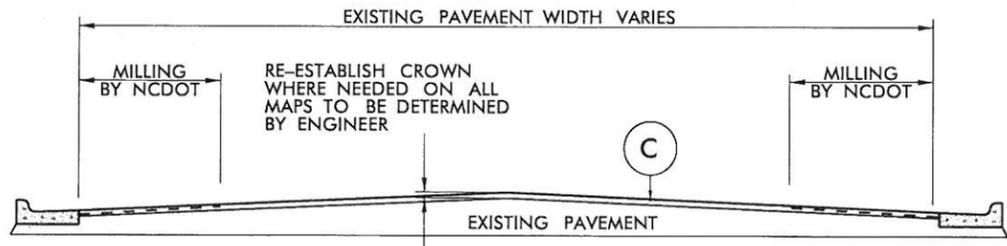
**DAVIE COUNTY**  
 NORTH CAROLINA



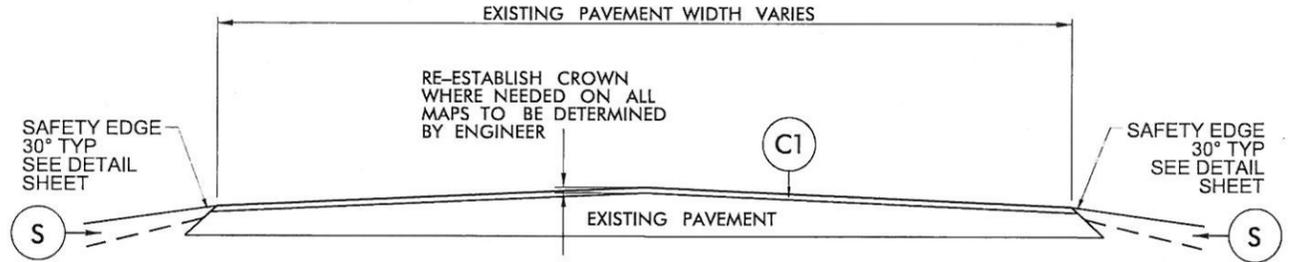
MAP NO. 4  
 Nolley Road SR 1125  
 NCDOT To do ALL Milling.



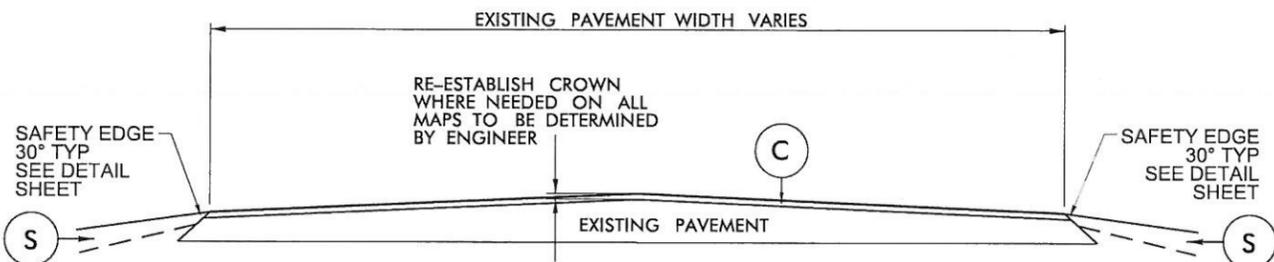
MAP NO. 5  
Mocks Church Road SR 1623  
NCDOT To do ALL Milling.



**TYPICAL SECTION NO. 1**  
**MAP NO.3 SR 1140 COUNTYHOME ROAD/SANFORD AVE.**



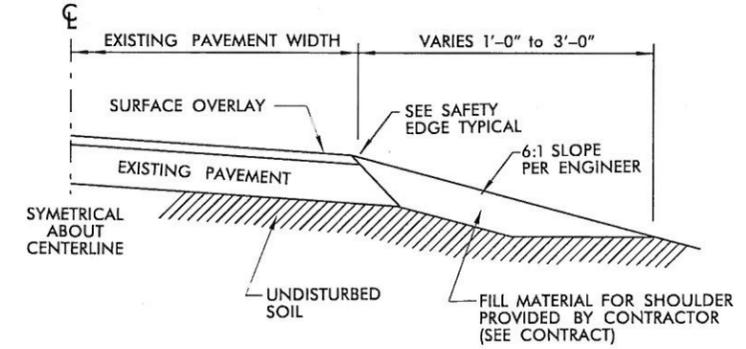
**TYPICAL SECTION NO. 3**  
**MAP NO.5 SR 1623 MOCKS CHURCH ROAD**



Shoulder reconstruction in areas only with no outside curb (typ.)

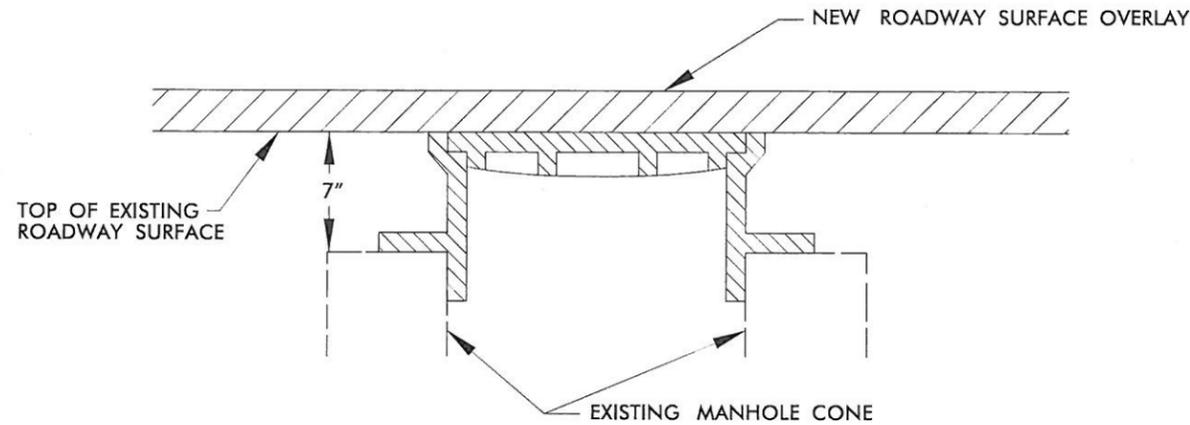
**TYPICAL SECTION NO. 2**  
**MAP NO.1 NC 601**  
**MAP NO.2 SR 1116 GREENHILLS ROAD**  
**MAP NO.3 SR 1140 COUNTYHOME ROAD/SANFORD AVE.**  
**MAP NO.4 SR 1125 NOLLEY ROAD**

Shoulder reconstruction in areas only with no outside curb (typ.)

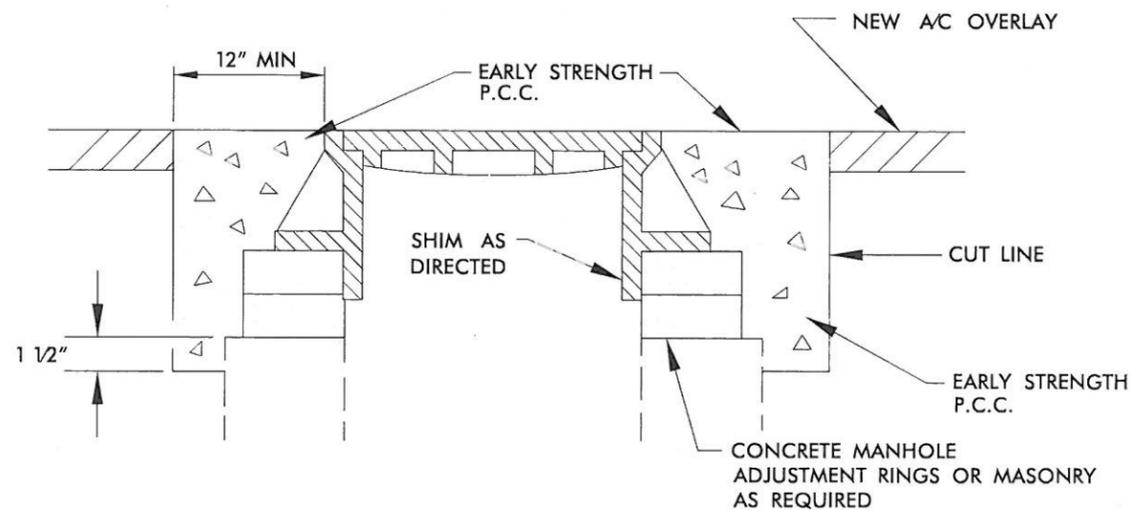


**SHOULDER RECONSTRUCTION**

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
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD
D	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, TO BE APPLIED AT AN AVERAGE RATE OF 114 LBS PER SQ YD
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:**

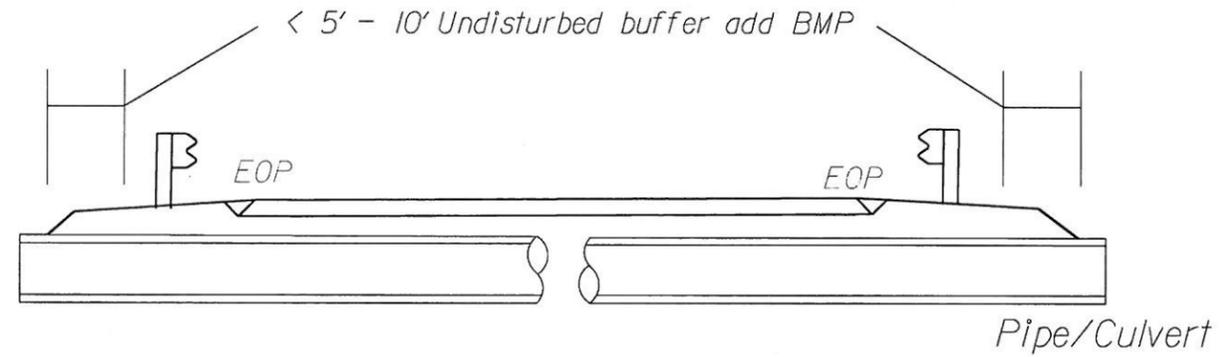
1. ALL QUANTITIES ARE "ESTIMATED" AS INDICATED IN THE "SUMMARY OF QUANTITIES".
2. CONSTRUCTION SHALL PROGRESS IN PHASES, IN THE ORDER INDICATED BELOW:
  - PHASE 1 - MILLING AND PATCHING (WHEN REQUIRED)
  - PHASE 2 - SURFACE OVERLAY
  - PHASE 3 - SHOULDER DROP-OFF REPAIR (AS NEEDED AND DIRECTED BY ENGINEER)
  - 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.
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

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

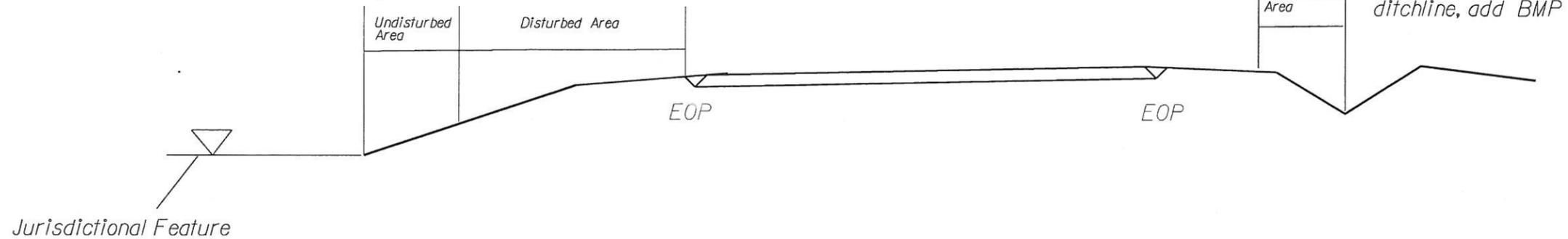
BMP Options: Wattle or Silt Fence

# EROSION CONTROL DETAIL

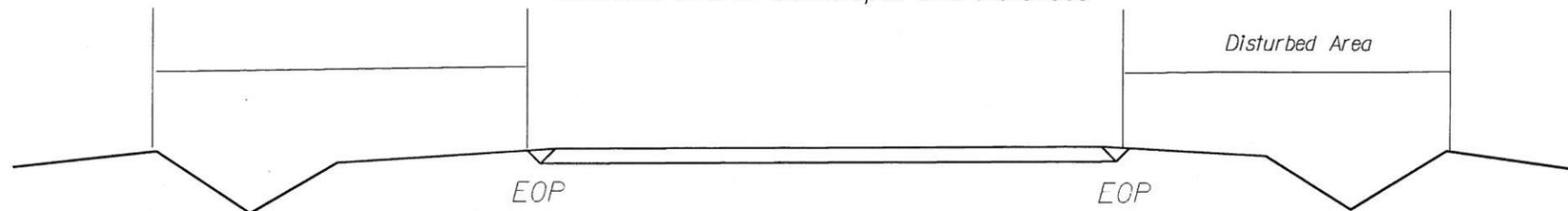
PROJECT REFERENCE NO.	SHEET NO.
9CR.10301.160, 9CR.20301.160	7



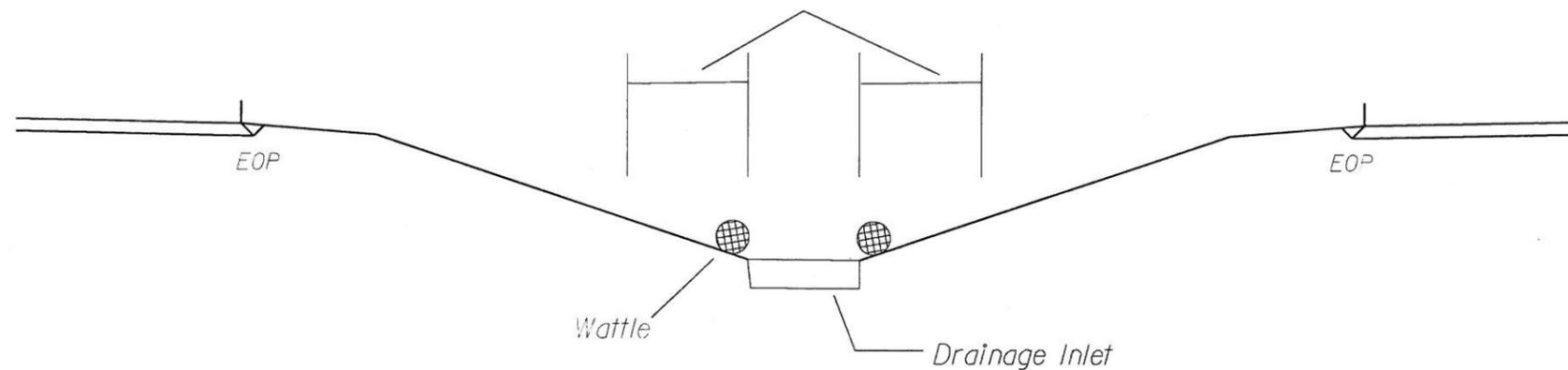
< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP



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

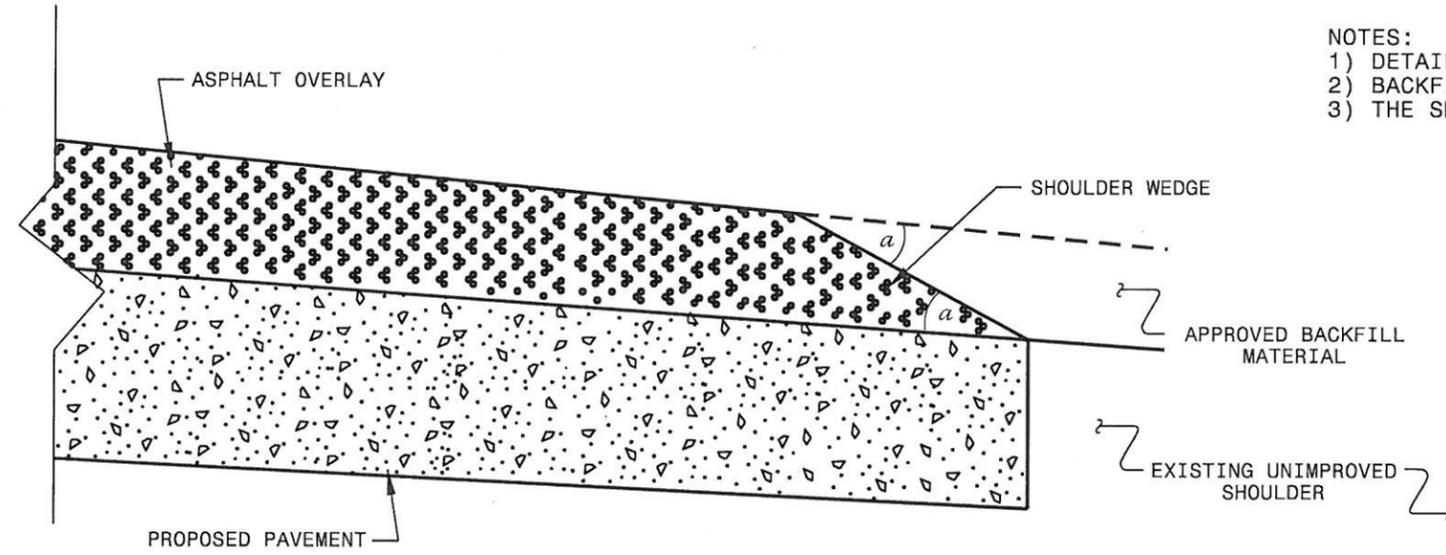


< 5' - 10' Undisturbed buffer from inlet, add wattle



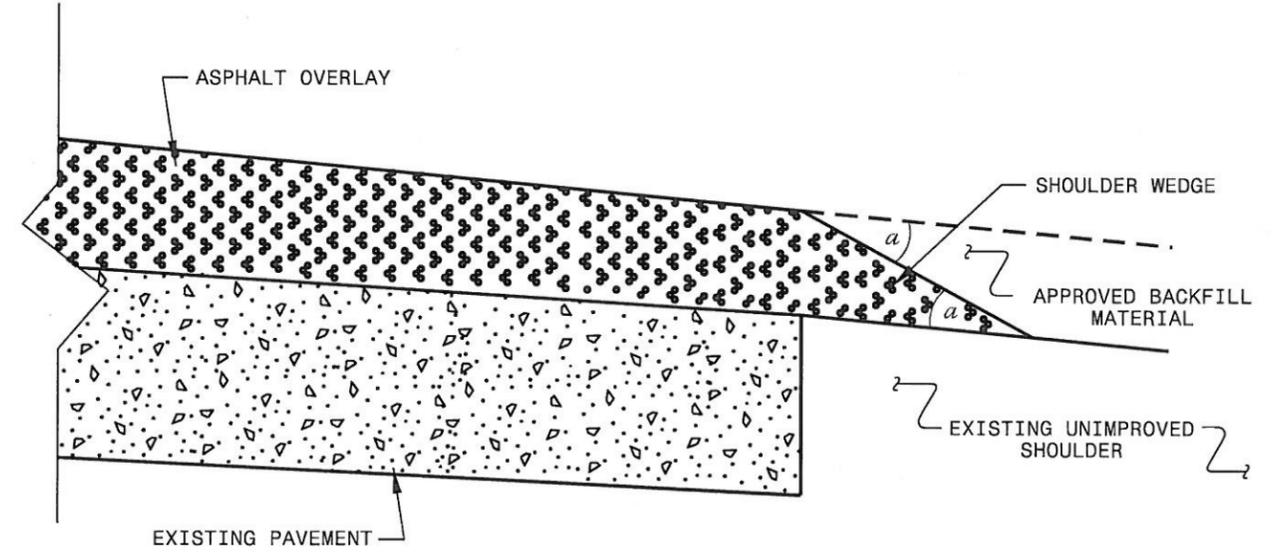
NOT TO SCALE

- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFCC 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.



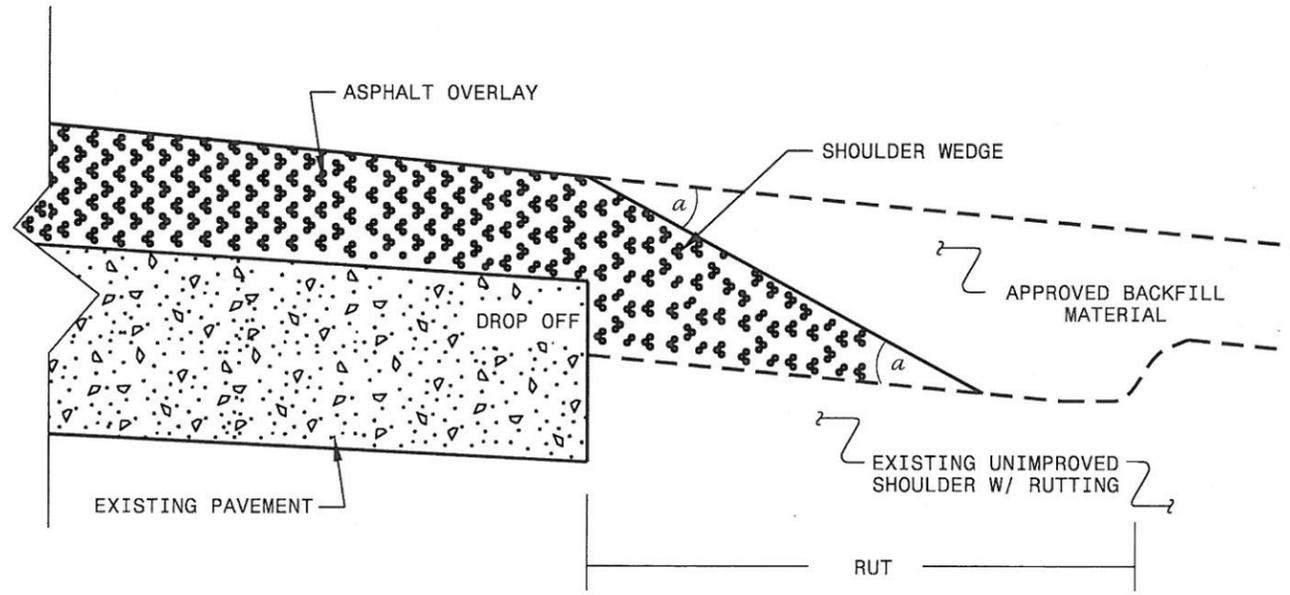
**SHOULDER WEDGE DETAIL**

(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 AND DEVELOPMENT UNIT</b>			
Office 919-707-6950		FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>			
ORIGINAL BY:	T. SPELL	DATE:	7-19-11
MODIFIED BY:		DATE:	10/16/12
CHECKED BY:		DATE:	
FILE SPEC.:	s:\usr\details\stai\shoulderwedgedetail.dgn		

15-Nov-2015 11:30 AM Resurfacing\Dave\2016\_Resurfacing\_DAVE\_RE\USED Shoulder Wedge Detail.dgn  
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 15-Nov-2015 11:30 AM Resurfacing\Dave\2016\_Resurfacing\_DAVE\_RE\USED Shoulder Wedge Detail.dgn

## 2016\_Resurfacing\_DAVIE

									PROJECT NO.		SHEET NO.	
									9CR.10301.160		9	
									9CR.20301.160			
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	US 601	US 601	74	SOUTH YADKIN RIVER	4.75 RC, 3.5 PPC	36.1	x	NA	NA	360	NA	NCDOT TO DO ALL MILLING
3	SR 1140	COUNTY HOME ROAD	12	BEAR CREEK	PPCCS, 2 1/4 AWS	24.1	NA	NA	NA	92	NA	NCDOT TO DO ALL MILLING

PROJECT NO.	SHEET NO.	TOTAL NO.
9CR.10301.160, 9CR.20301.160	10	

**SUMMARY OF QUANTITIES**

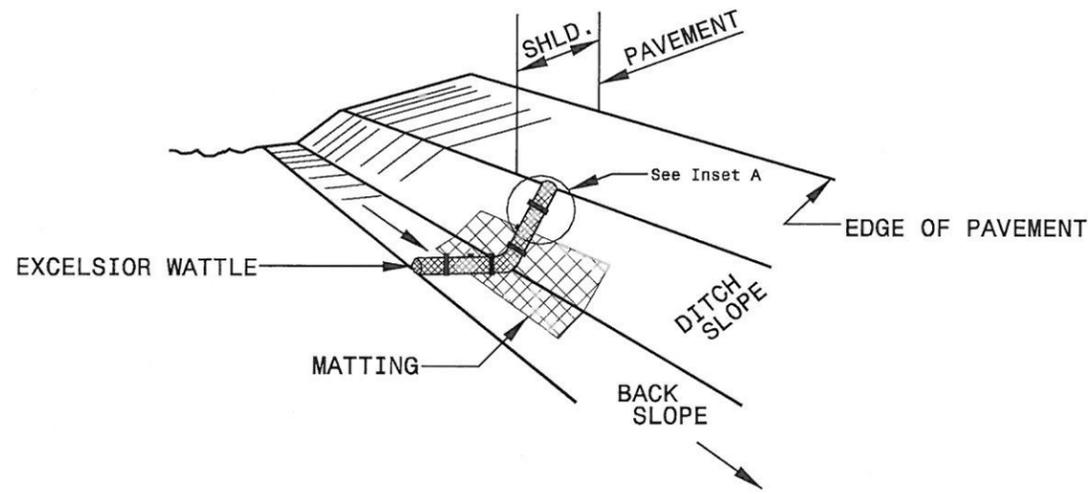
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	BORROW EXCAVATION CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	TEMPORARY SILT FENCE LF	WATTLE LF
9CR.10301.160	Davie	1	US 601	FROM ROWAN COUNTY LINE BRIDGE NO. TO NC 801	2	2	2WU	NO	NO	4.253	26	510	402	8.51	6,158		369	20		2	1,701	170
TOTAL FOR MAP NO. 1										4.253		510	402	8.51	6,158		369	20		2	1,701	170
TOTAL FOR PROJ NO. 9CR.10301.160										4.253		510	402	8.51	6,158		369	20		2	1,701	170
9CR.20301.160	Davie	2	GREENHILLS ROAD SR 1116	FROM US 64 TO COUNTY HOME RD. (SR1140)	2	2	2WU	NO	NO	1.6	22	192	129	3.20	1,919		115	20			640	64
TOTAL FOR MAP NO. 2										1.6		192	129	3.20	1,919		115	20			640	64
9CR.20301.160	Davie	3	COUNTY HOME RD./SANFORD AVE. SR1140	FROM GREENHILLS ROAD SR 1116 TO US 64	1,2	2	2WU	NO	NO	2.437	23	292	117	4.87	3,250		195	20	8	10	975	97
TOTAL FOR MAP NO. 3										2.437		292	117	4.87	3,250		195	20	8	10	975	97
9CR.20301.160	Davie	4	NOLLEY ROAD SR 1125	FROM EDGE OF PAVEMENT AT GLADSTONE ROAD SR 1121 TO EDGE OF PAVEMENT AT JUNCTION RD SR1139	2	2	2WU	NO	NO	0.682	22	82	45	1.36	818		49	20		2	273	27
TOTAL FOR MAP NO. 4										0.682		82	45	1.36	818		49	20		2	273	27
9CR.20301.160	Davie	5	MOCKS ROAD SR 1623	FROM NC 801 TO BEAUCHAMPTOWN RD. SR 1621	3	2	2WU	NO	NO	0.448	20	54	33	0.90		480	32	20			179	18
TOTAL FOR MAP NO. 5										0.448		54	33	0.90		480	32	20			179	18
TOTAL FOR PROJ NO. 9CR.20301.160										5.167		620	324	10.33	5,987	480	391	80	8	12	2,067	206
GRAND TOTAL										9.42		1,130	726	18.84	12,145	480	760	100	8	14	3,768	376

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

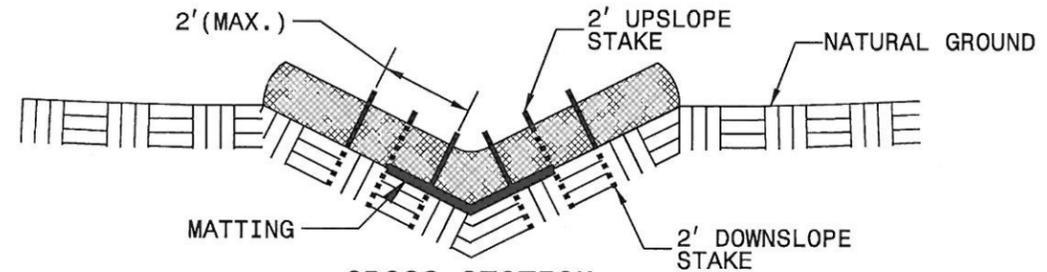


PROJECT REFERENCE NO. X-XXXX	SHEET NO. EC-26
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

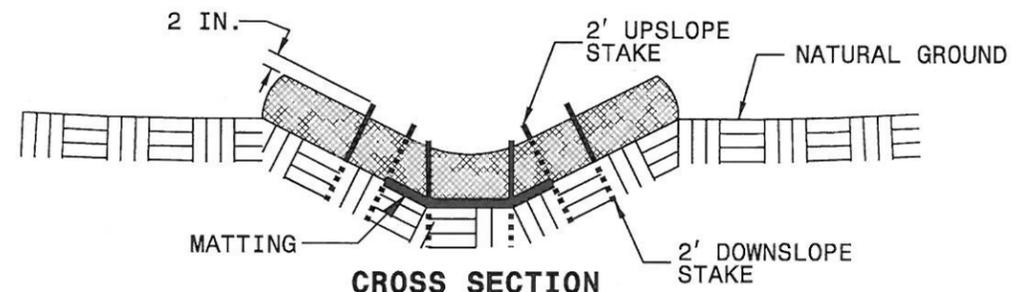
# WATTLE DETAIL



**ISOMETRIC VIEW**



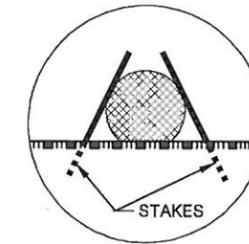
**CROSS SECTION VEE DITCH**



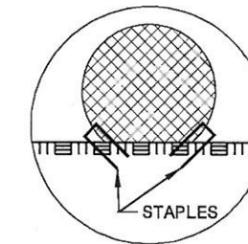
**CROSS SECTION TRAPEZOIDAL DITCH**

**NOTES:**

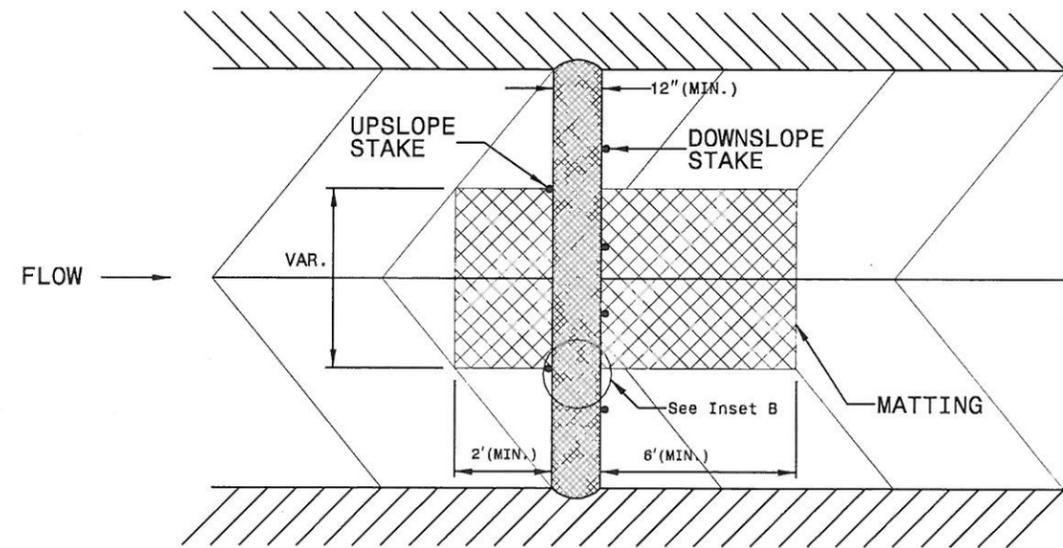
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES 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**