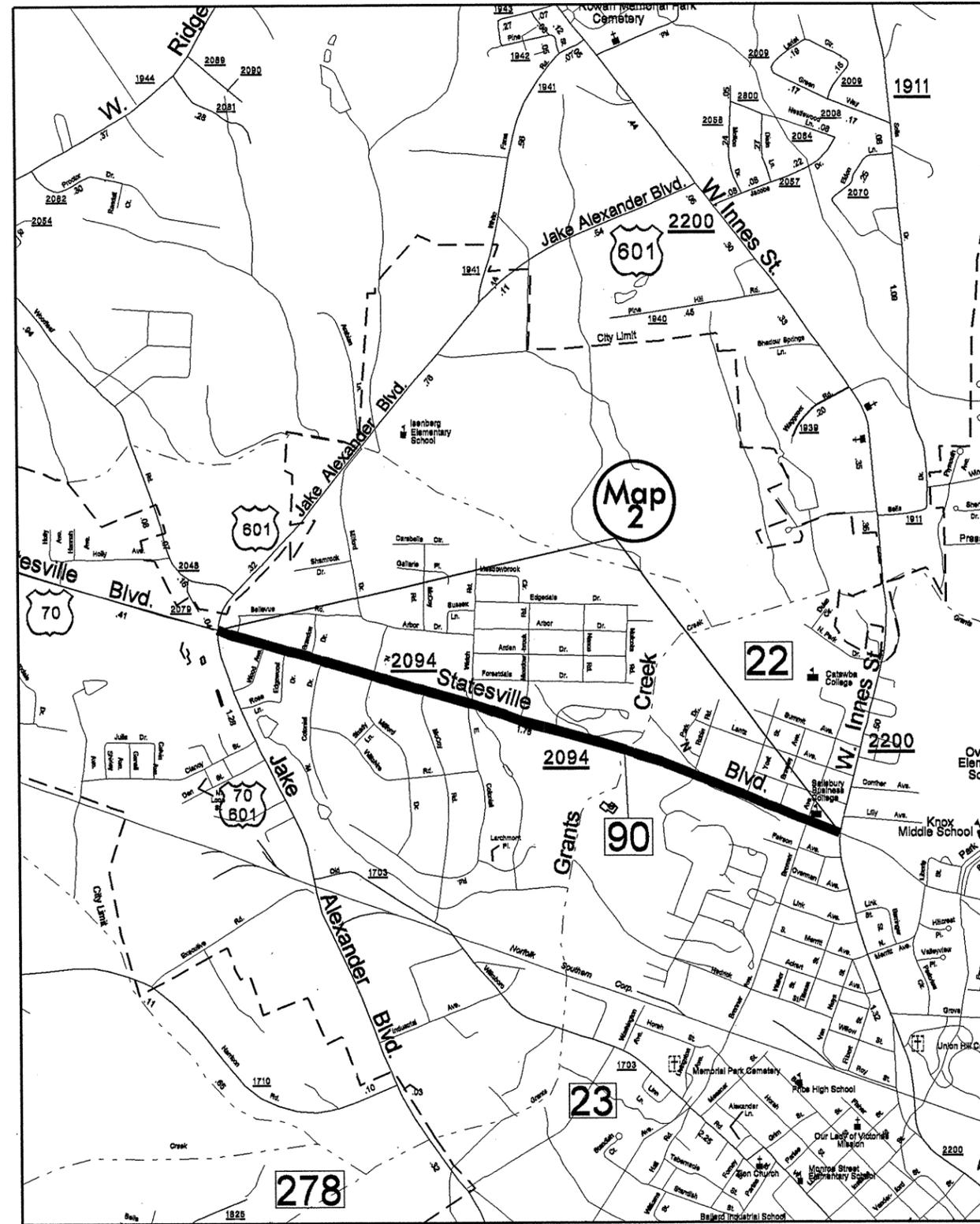
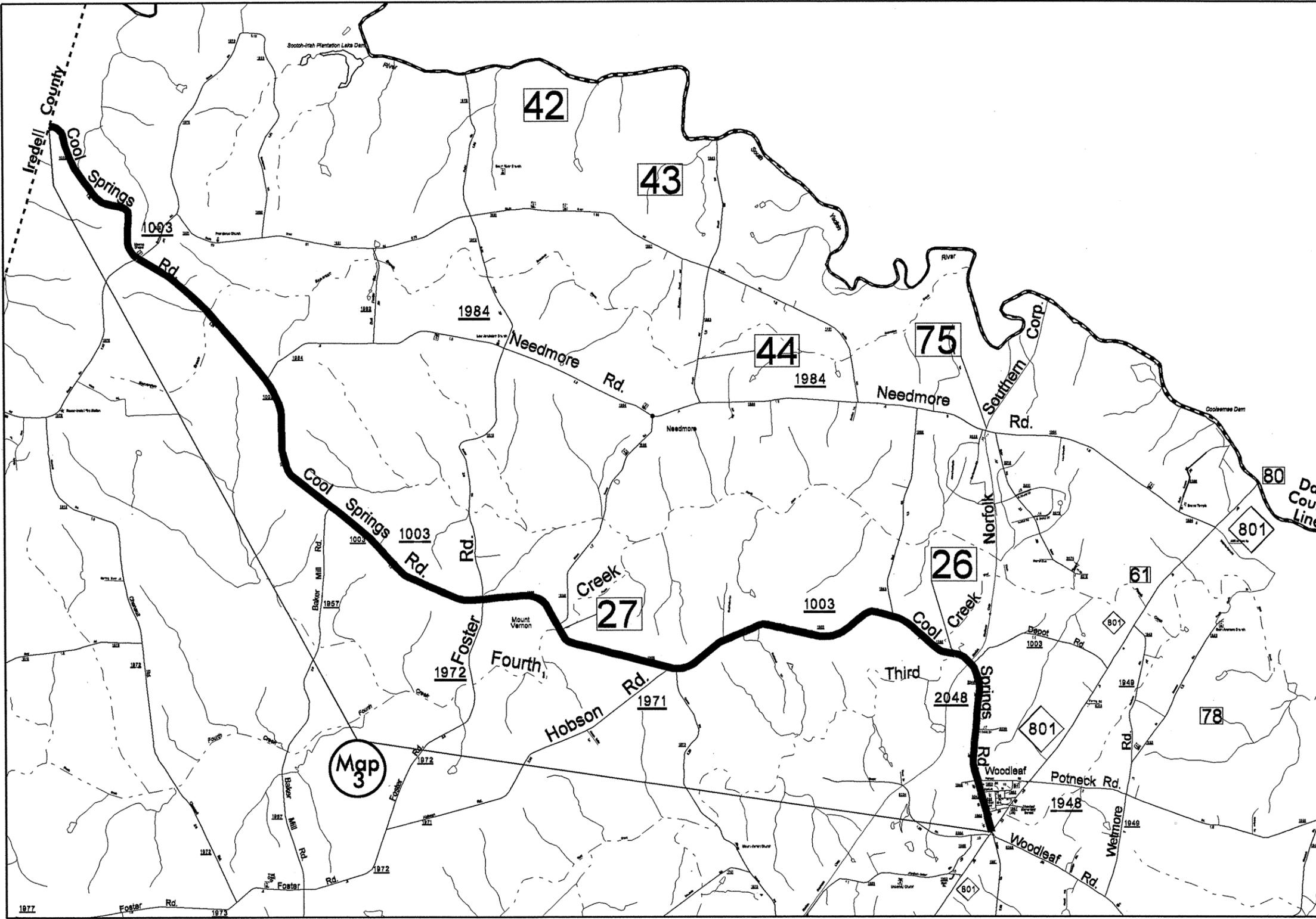


MAP 1
US 29 SOUTH MAIN STREET
 All Patching done by state forces.

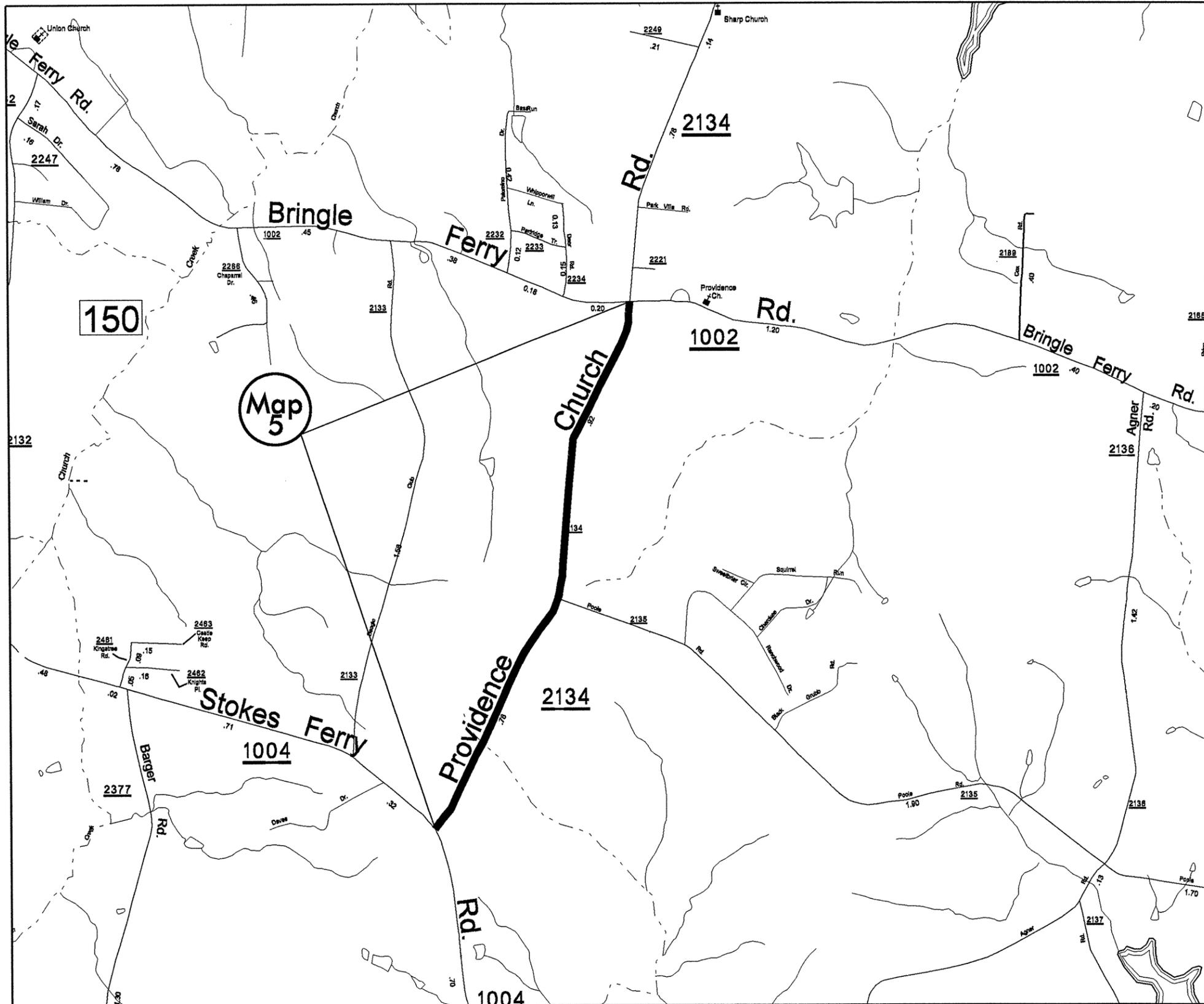


MAP 2
SR 2094 STATESVILLE BOULEVARD
 All Patching done by state forces.
 See Typical for Milling detail at
 Intersection.
 Variable depth mill, where
 higher than curb take down
 1½" below gutter



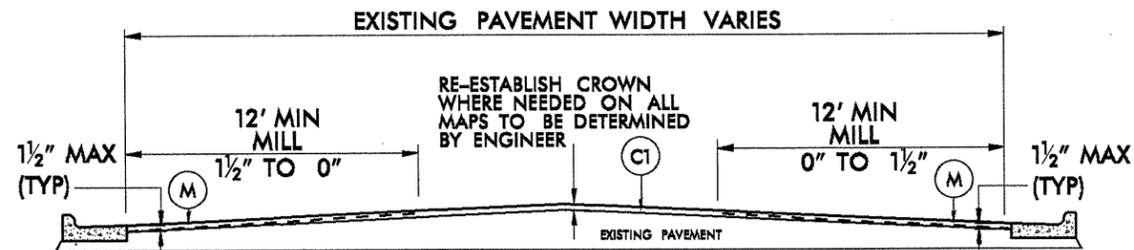
MAP 3
SR 1003 COOL SPRINGS ROAD
 All Patching done by state forces.
 Mill approaches at RxR Crossing,
 Mill Bridge approaches.

ROWAN COUNTY
 NORTH CAROLINA

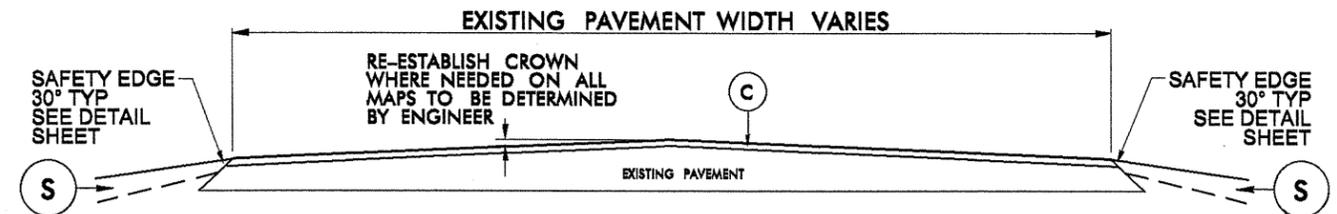


MAP 5
SR 2134 PROVIDENCE CHURCH ROAD
 All Patching done by state forces.
 Pave 2" in middle to 1½" on edges of roadway.
 Butt mill pavement joints at each end of map for 200 feet on mainline and 50 feet on "Y" lines.

ROWAN COUNTY
 NORTH CAROLINA



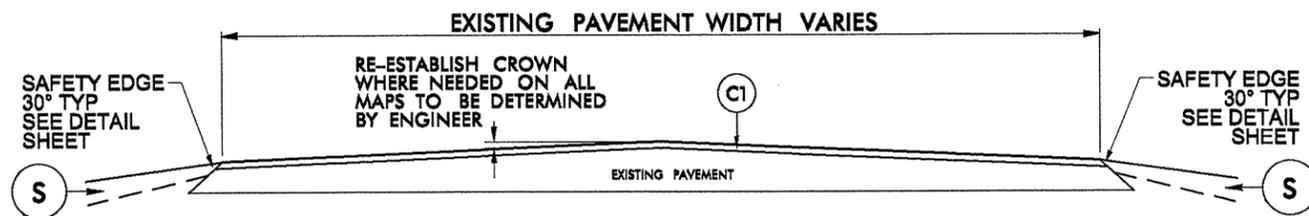
TYPICAL SECTION NO. 1
MAP NO. 1 US 29 MAIN STREET
MAP NO. 2 SR 2094 STATESVILLE BLVD.
 * See milling detail on next page for intersection at STATESVILLE BLVD. AND JAKE ALEXANDER BLVD.
 NOTE: ALL CURB AND GUTTER IS EXISTING



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

TYPICAL SECTION NO. 3
MAP NO. 4 SR 1533 PATTERSON ROAD

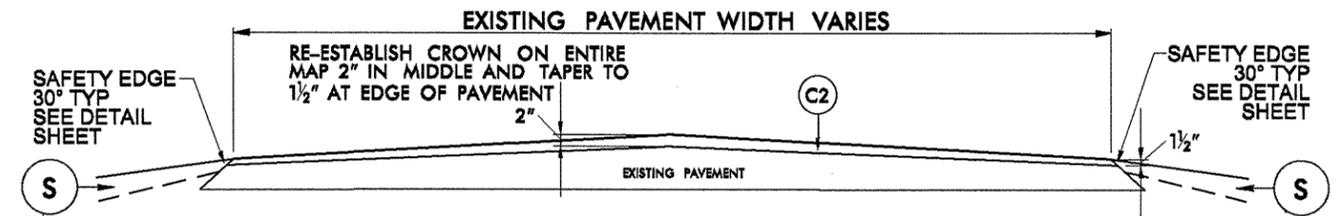
Shoulder reconstruction in areas only with no outside curb (typ.)



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

TYPICAL SECTION NO. 2
MAP NO. 3 SR 1003 COOL SPRINGS ROAD

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

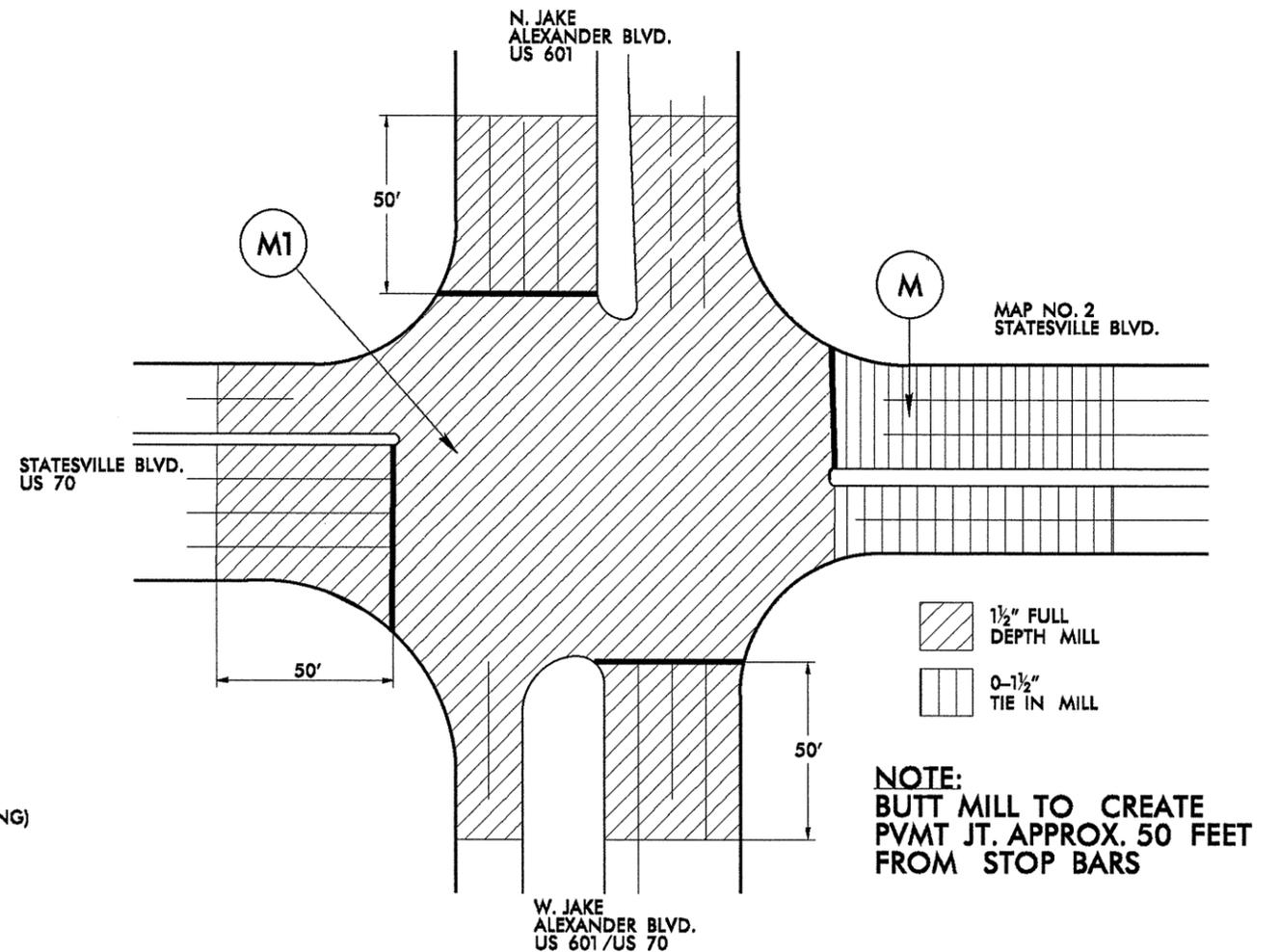
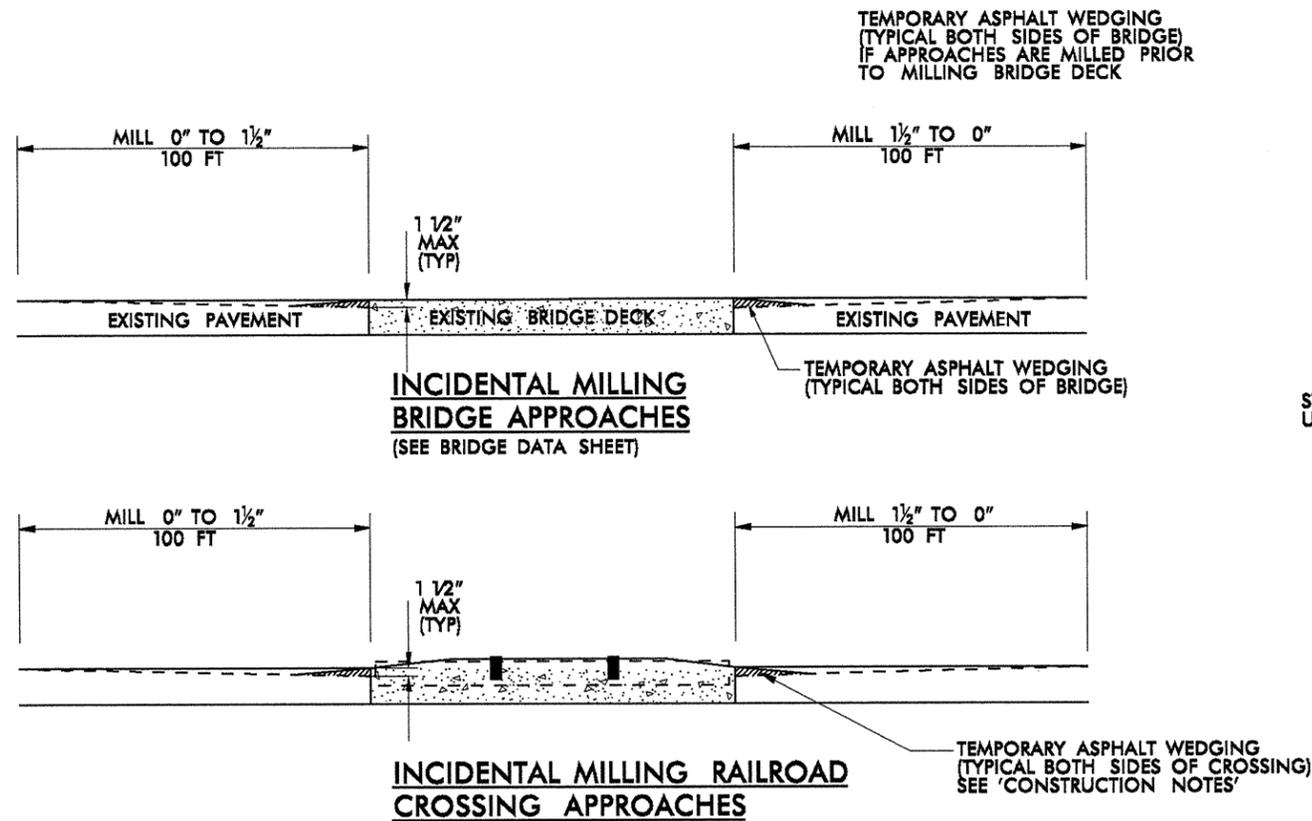


Shoulder reconstruction in areas only with no outside curb (typ.)

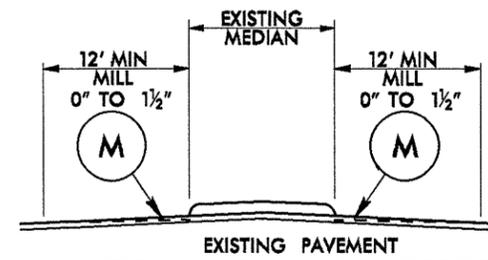
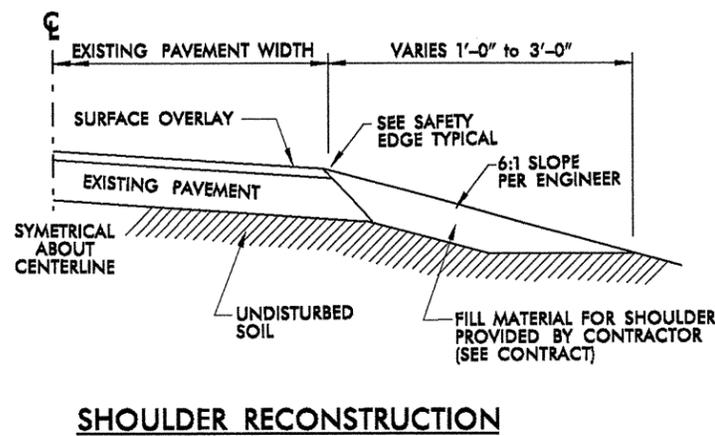
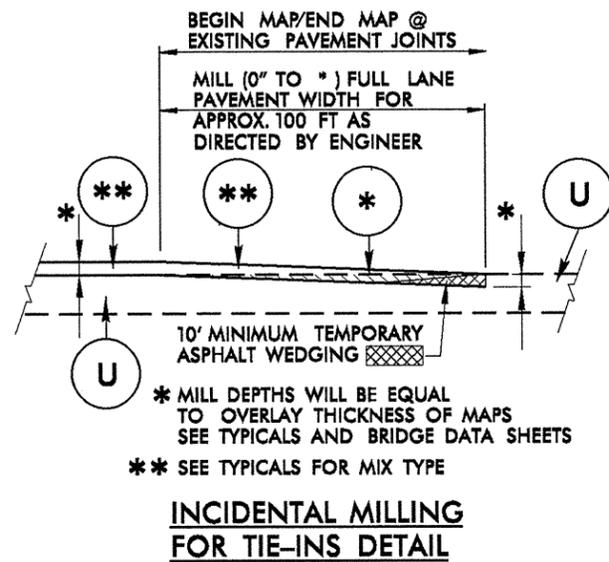
TYPICAL SECTION NO. 4
MAP NO. 5 SR 2134 PROVIDENCE CHURCH ROAD

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

PAVEMENT SCHEDULE	
C	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 168 LBS PER SQ YD
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 224 LBS PER SQ YD
M	MILL ASPHALT PAVEMENT, 0 TO 1½" DEPTH
M1	MILL ASPHALT PAVEMENT, 1½" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT

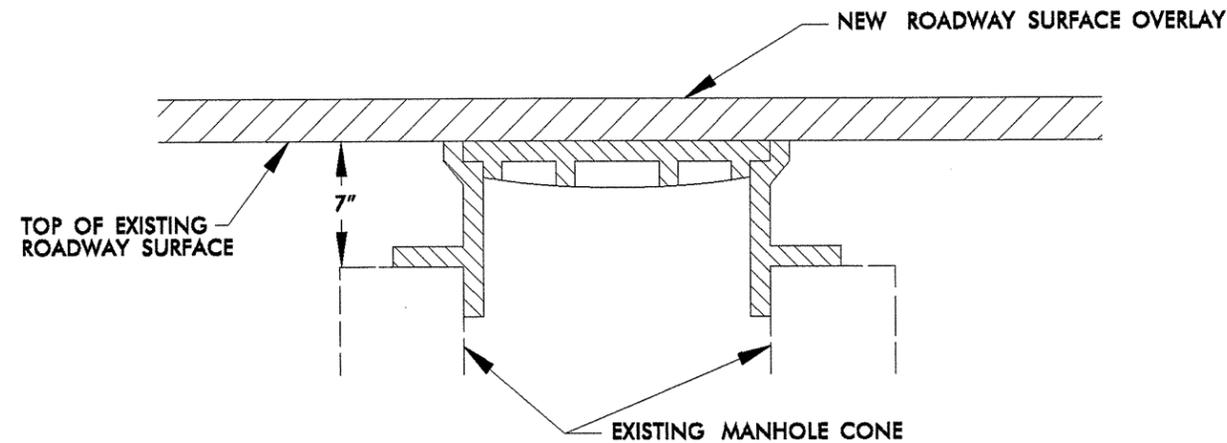


MILLING DETAIL MAP NO. 2
STATESVILLE BLVD.

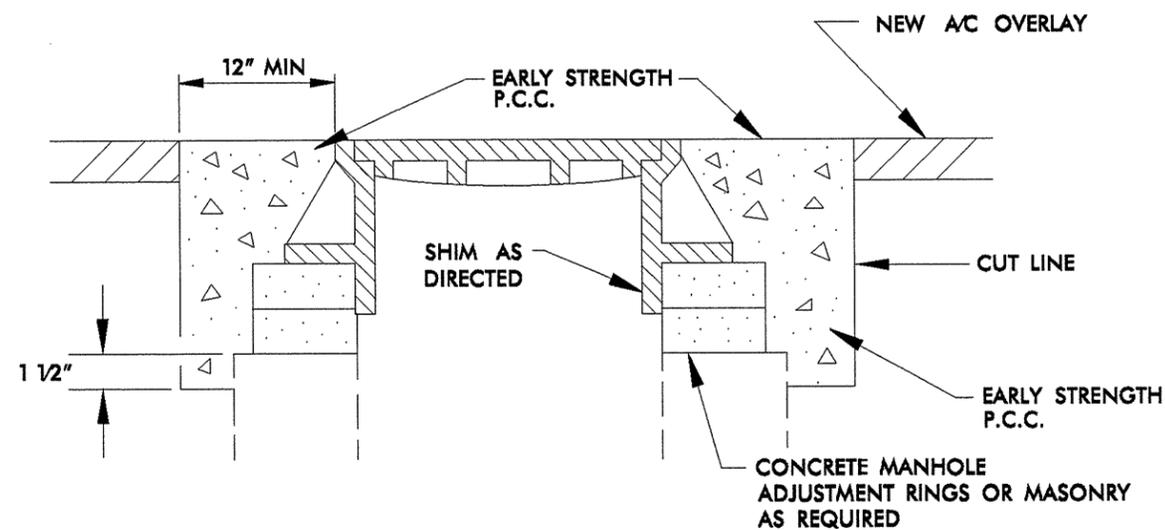


MILLING AT MEDIANS

PAVEMENT SCHEDULE	
C	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, TO BE APPLIED AT AN AVERAGE RATE OF 165 LBS PER SQ YD
C1	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
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, TO BE APPLIED AT AN AVERAGE RATE OF 224 LBS PER SQ YD
M	MILL ASPHALT PAVEMENT, 0 TO 1 1/2" DEPTH
M1	MILL ASPHALT PAVEMENT, 1 1/2" DEPTH
S	SHOULDER RECONSTRUCTION (SEE DETAIL)
U	EXISTING PAVEMENT



STEP 1



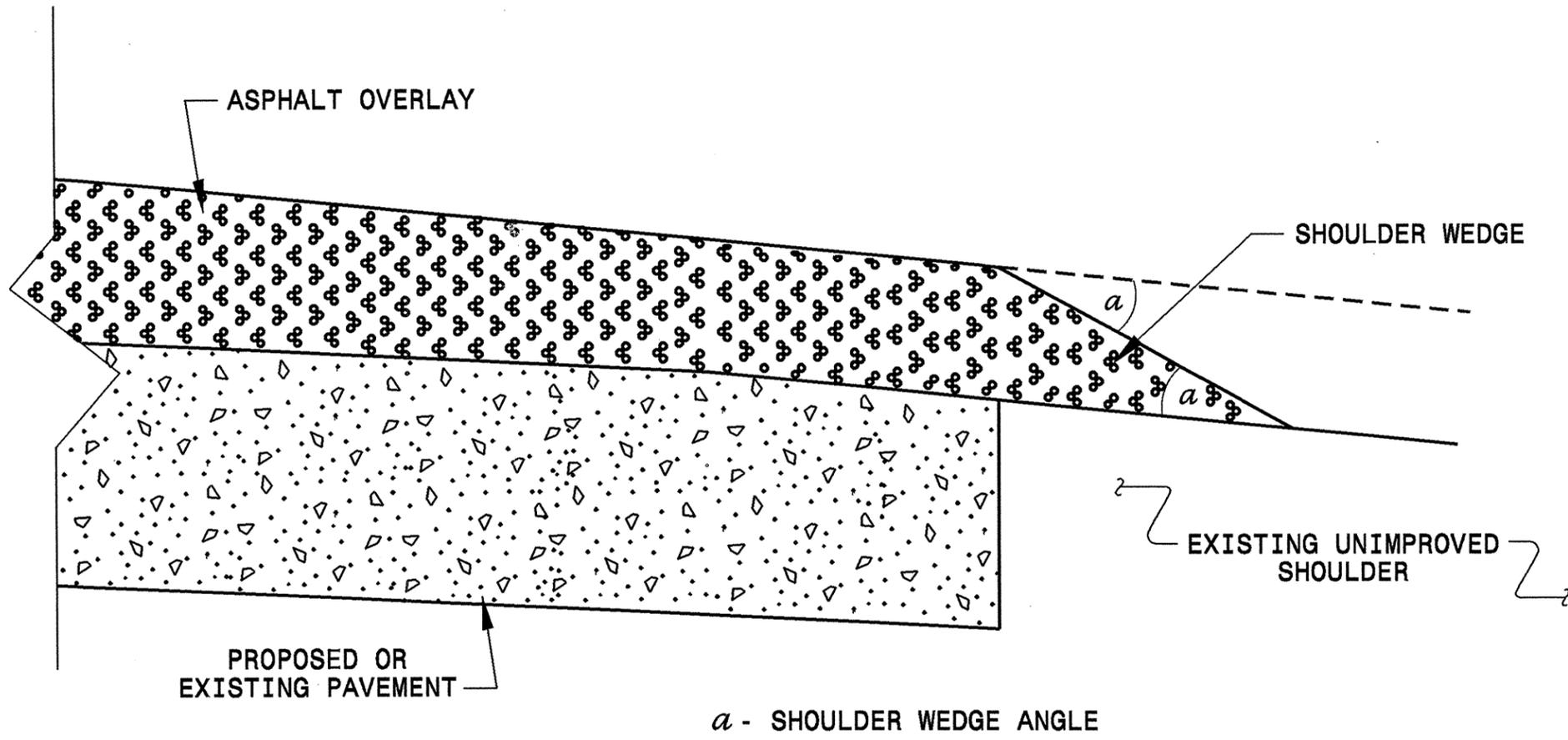
STEPS 2,3, & 4

- 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



SHOULDER WEDGE DETAIL

C:\MAY-2012\1043
 S:\Contracts\Resurfacing Projects\Division 9\Drawn\Revised Files\Shoulder Wedge Detail.dgn
 \$\$\$USERNAME\$\$\$

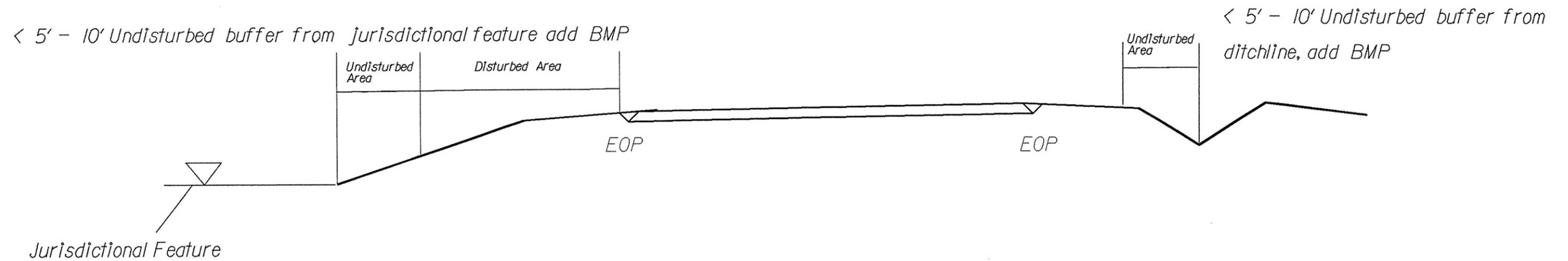
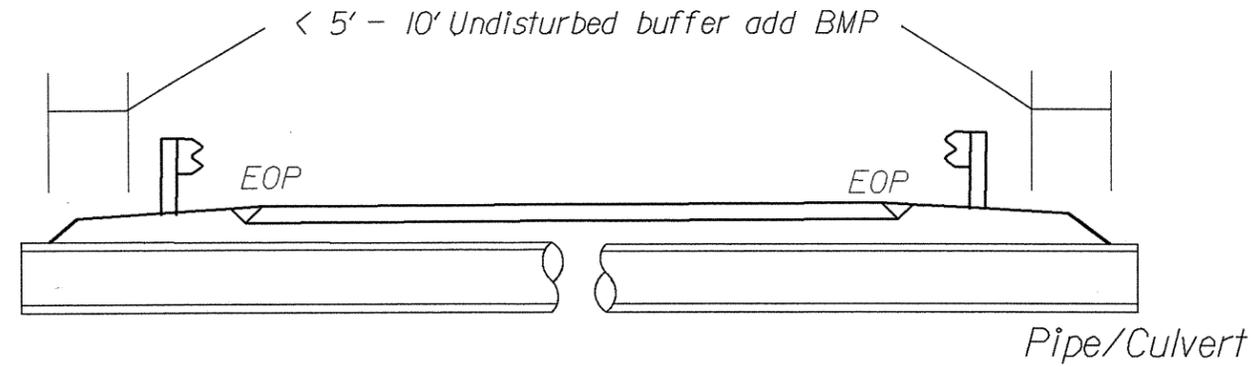
CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119	
SHOULDER WEDGE DETAIL	
ORIGINAL BY: T.SPELL	DATE: 7-19-11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: suser/details/stand/shoulderwedgedetail.dgn	

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

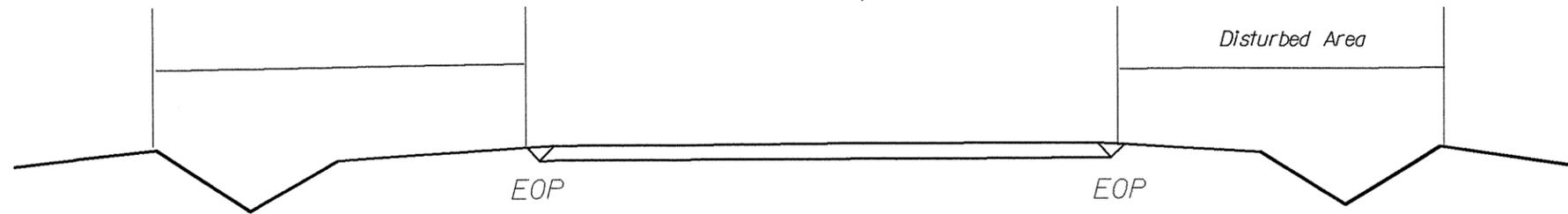
BMP Options: Wattle or Silt Fence

EROSION CONTROL DETAIL

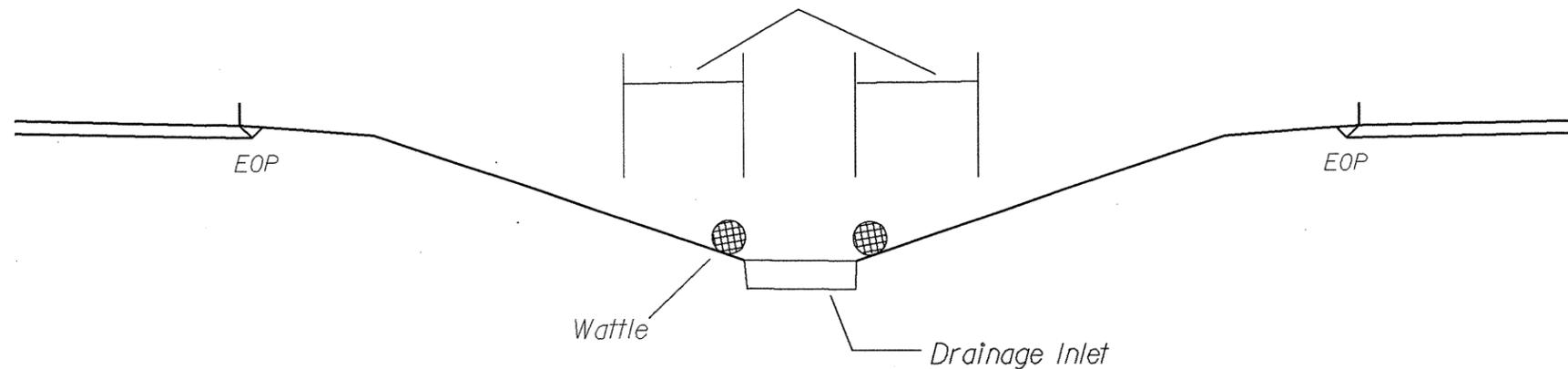
PROJECT REFERENCE NO.	SHEET NO.
9CR.10801.130, 9CR.20801.130	10



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



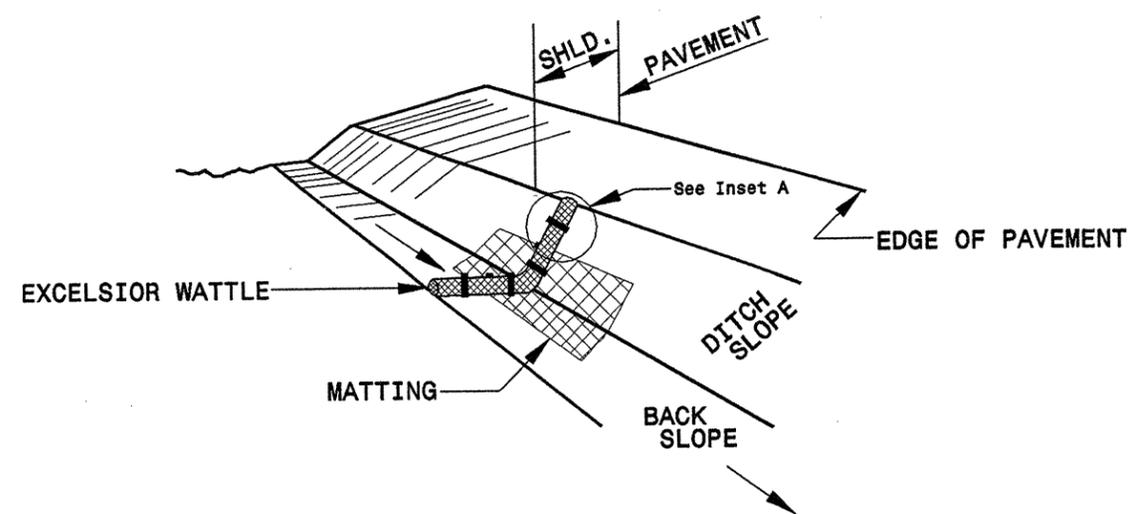
< 5' - 10' Undisturbed buffer from inlet, add wattle



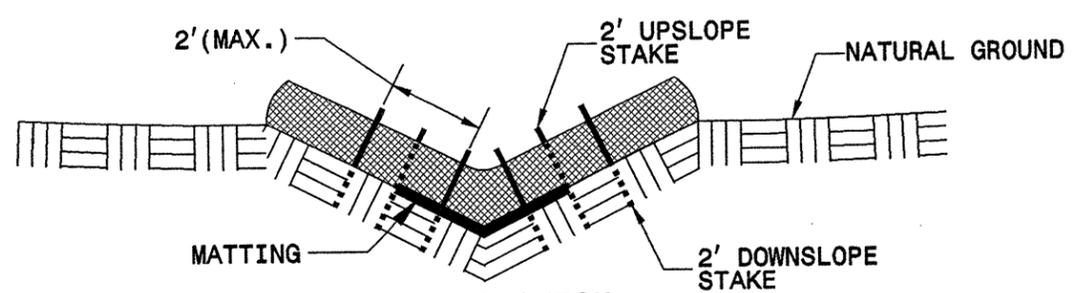
NOT TO SCALE

PROJECT REFERENCE NO. 9CR.10801.130	SHEET NO. 11
RDW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

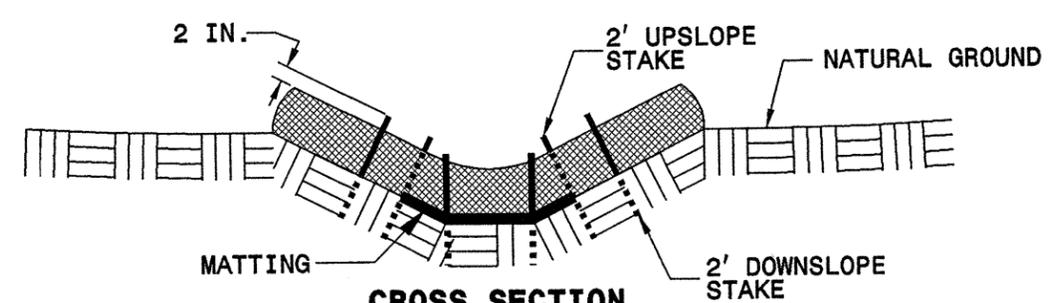
WATTLE DETAIL



ISOMETRIC VIEW



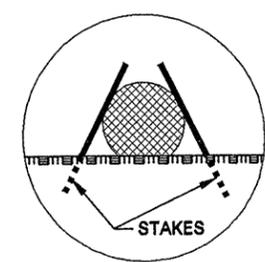
CROSS SECTION VEE DITCH



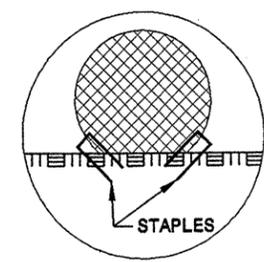
CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

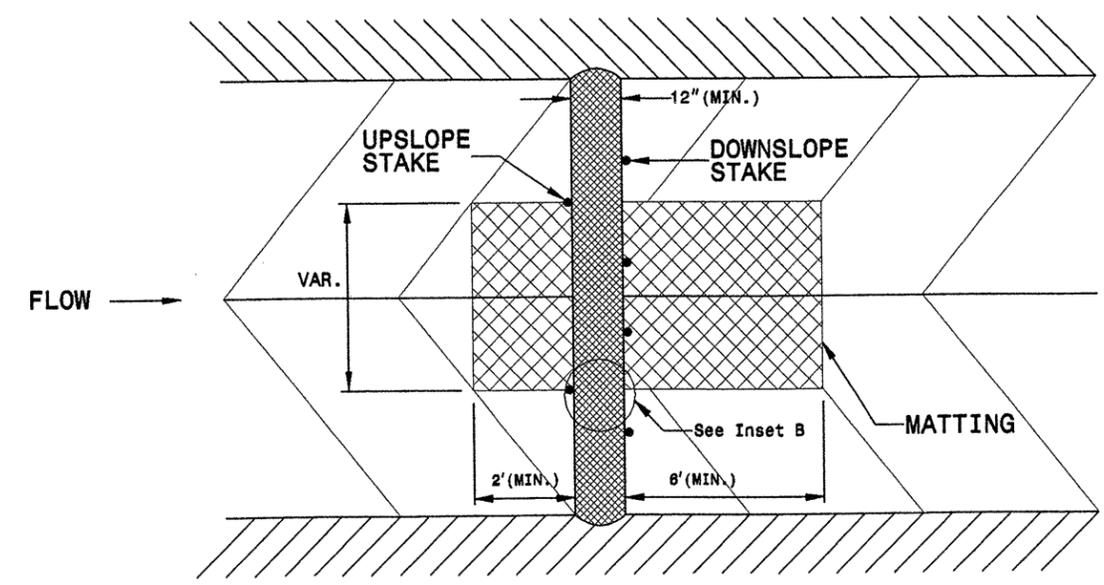
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES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

Rowan County Summer 2012 Resurfacing Bridge List

								PROJECT NO.	SHEET NO.	TOTAL NO.	
								9CR.10801.130, 9CR.20801.130	12		
Map No.	Route No.	Route Name	Bridge No.	Feature Intersected	Floor Construction	Clear Roadway Width (Ft)	Horizontal Clearance Under (Ft.)	Vertical Clearance Under	Length (Ft)	Posting	Recommended Treatment, From Bridge Maintenance
1	US 29/70	S. MAIN ST.	41	US 70/US 601 JAKE ALEXANDER BLVD.	8.5 RC SLAB	68	69.2	16 FT 07 IN	165	NA	Mill approaches; Do not pave on bridge
2	SR 2094	STATESVILLE BOULEVARD	90	GRANTS CREEK	7 3/4 RC SLAB	52	NA	NA	201	NA	Mill approaches; Do not pave on bridge
3	SR1003	COOL SPRINGS ROAD	26	THIRD CREEK	8 3/4 RC SLAB	32	NA	NA	240	NA	Mill approaches; Do not pave on bridge
3	SR1003	COOL SPRINGS ROAD	27	FOURTH CREEK	8.5 RC SLAB	28	NA	NA	190	NA	Mill approaches; Do not pave on bridge

PROJECT NO.	SHEET NO.	TOTAL NO.
9CR.10801.130,	13	14
9CR.20801.130		

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING 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	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	TEMPORARY SILT FENCE LF	WATTLE LF	
9CR.10801.130	Rowan	1	US 29 MAIN STREET	FROM BRIDGE NO.41 TO B AVENUE	1	NO /	0.494	36					7,357	1,100	1,158		70	4	6			
TOTAL FOR MAP NO. 1							0.494						7,357	1,100	1,158		70	4	6			
TOTAL FOR PROJ NO. 9CR.10801.130							0.494						7,357	1,100	1,158		70	4	6			
9CR.20801.130	Rowan	2	SR 2094 STATESVILLE BOULEVARD	FROM INNES STREET SR 2200 TO JAKE ALEXANDER BOULEVARD US 601	1	NO /	1.744	48				6,250	24,853	2,557	5,403		324	23	9			
TOTAL FOR MAP NO. 2							1.744					6,250	24,853	2,557	5,403		324	23	9			
9CR.20801.130	Rowan	3	SR 1003 COOL SPRINGS ROAD	FROM IREDELL COUNTY LINE TO NC 801	2	NO /	10.136	24	1,216	570	20.27			1,867	13,256		795			4,054	405	
TOTAL FOR MAP NO. 3							10.136		1,216	570	20.27			1,867	13,256		795			4,054	405	
9CR.20801.130	Rowan	4	SR 1533 PATTERSON ROAD	FROM SR 1211 BROWN RD. TO NC 150 / MOORESVILLE ROAD	3	NO /	4.717	22	566	363	9.43			489		5,556	372			1,887	189	
TOTAL FOR MAP NO. 4							4.717		566	363	9.43			489		5,556	372			1,887	189	
9CR.20801.130	Rowan	5	SR 2134 PROVIDENCE CHURCH ROAD	FROM SR 1004 STOKES FERRY ROAD TO SR 1002 BRINGLE FERRY ROAD	4	NO /	1.661	20	199	84	3.32		368	1,212	2,116		127			664	66	
TOTAL FOR MAP NO. 5							1.661		199	84	3.32		368	1,212	2,116		127			664	66	
TOTAL FOR PROJ NO. 9CR.20801.130							18.258		1,981	1,017	33.02		6,250	25,221	6,125	20,775	5,556	1,618	23	9	6,605	660
GRAND TOTAL							18.752		1,981	1,017	33.02		6,250	32,578	7,225	21,933	5,556	1,688	27	15	6,605	660

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.
9CR.10801.130, 9CR.20801.130	14	14

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	LENGTH	WIDTH	4685000000-E		4686000000-E		4695000000-E		4697000000-E	4705000000-E	4710000000-E		4721000000-E					4725000000-E		4810000000-E		4845000000-N			
							4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	8" X 90 M YELLOW THERMO LF	8" X 90 M WHITE THERMO LF	8" X 120 M WHITE THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO MSG ONLY 120 M EA	THERMO RXR 120 M EA	THERMO MSG SCHOOL 120 M EA	THERMO LT ARROW 90 M EA	THERMO STR ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	THERMO MERGE ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	PAINT STR ARROW EA	PAINT STR & RT ARROW EA	PAINT RT ARROW EA	
9CR.10801.130	Rowan	1	US 29 MAIN STREET	FROM BRIDGE NO.41 TO B AVENUE	0.494	36		6,244	660	363				93	4		2	7	3	4			660	6,244	6	3			
TOTAL FOR MAP NO. 1					0.494			6,244	660	363			93	4		2	7	3	4			660	6,244	6	3				
TOTAL FOR PROJ NO. 9CR.10801.130					0.494			6,244	660	363			93	4		2	7	3	4			660	6,244	6	3				
							6,904			363				4			16					6,904			9				
9CR.20801.130	Rowan	2	SR 2094 STATESVILLE BOULEVARD	FROM INNES STREET SR 2200 TO JAKE ALEXANDER BOULEVARD US 601	1.744	48		19,020	5,030		33	382		282			9	7	9		3	4	4,627	405	2	7	2		
TOTAL FOR MAP NO. 2					1.744			19,020	5,030		33	382		282			9	7	9		3	4	4,627	405	2	7	2		
9CR.20801.130	Rowan	3	SR 1003 COOL SPRINGS ROAD	FROM IREDELL COUNTY LINE TO NC 801	10.136	24	109,063	107,036					150	175		6	12						880	880					
TOTAL FOR MAP NO. 3					10.136		109,063	107,036					150	175		6	12						880	880					
9CR.20801.130	Rowan	4	SR 1533 PATTERSON ROAD	FROM SR 1211 BROWN RD. TO NC 150 / MOOREVILLE ROAD	4.717	22	50,755	49,812						21															
TOTAL FOR MAP NO. 4					4.717		50,755	49,812						21															
9CR.20801.130	Rowan	5	SR 2134 PROVIDENCE CHURCH ROAD	FROM SR 1004 STOKES FERRY ROAD TO SR 1002 BRINGLE FERRY ROAD	1.661	20	17,872	17,540						32															
TOTAL FOR MAP NO. 5					1.661		17,872	17,540						32															
TOTAL FOR PROJ NO. 9CR.20801.130					18.258		177,690	193,408	5,030		33	382	150	510		6	12	9	7	9		3	4	5,507	1,285	2	7	2	
							198,438			33				18						32			6,792			11			
GRAND TOTAL					18.752		177,690	199,652	5,690		363	33	382	150	603	4	6	12	11	14	12	4	3	4	6,167	7,529	8	10	2
							205,342			396				22					48				13,696			20			

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