

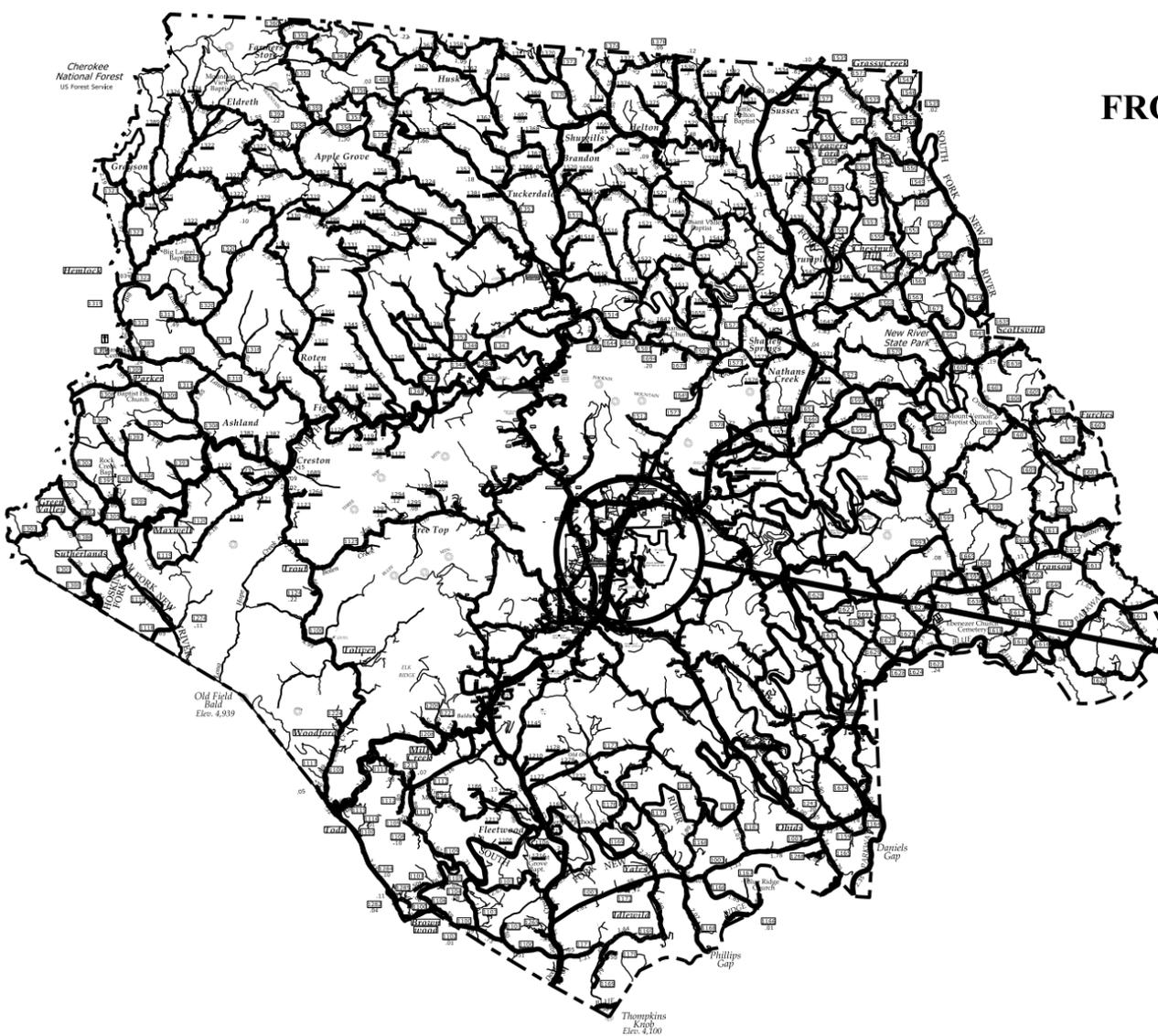
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ASHE COUNTY

2015 PRIMARY RESURFACING



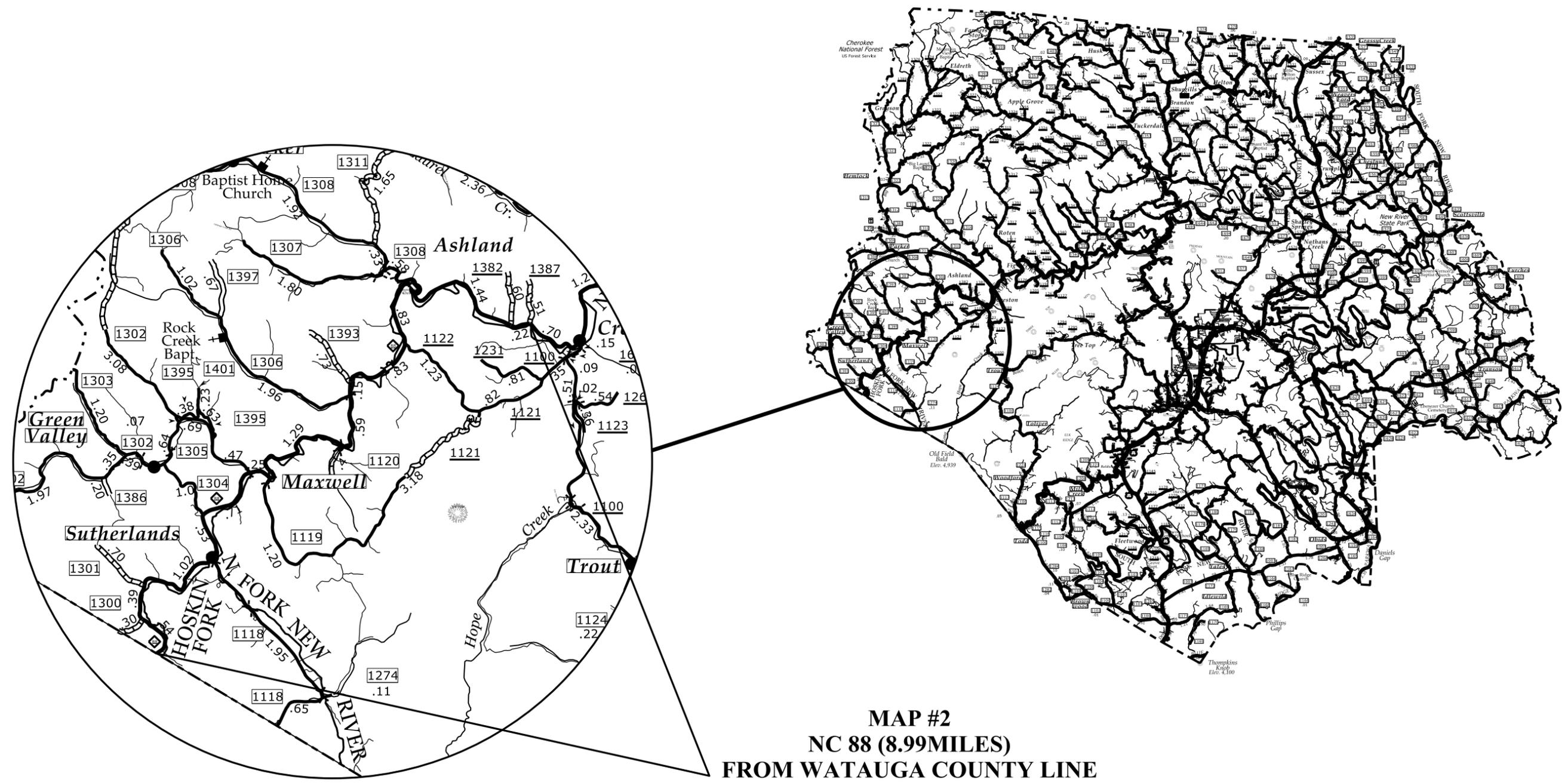
MAP #1
US 221(3.16 MILES)
FROM WCL OF JEFFERSON
TO US 221 BUS
TYPE: S9.5B



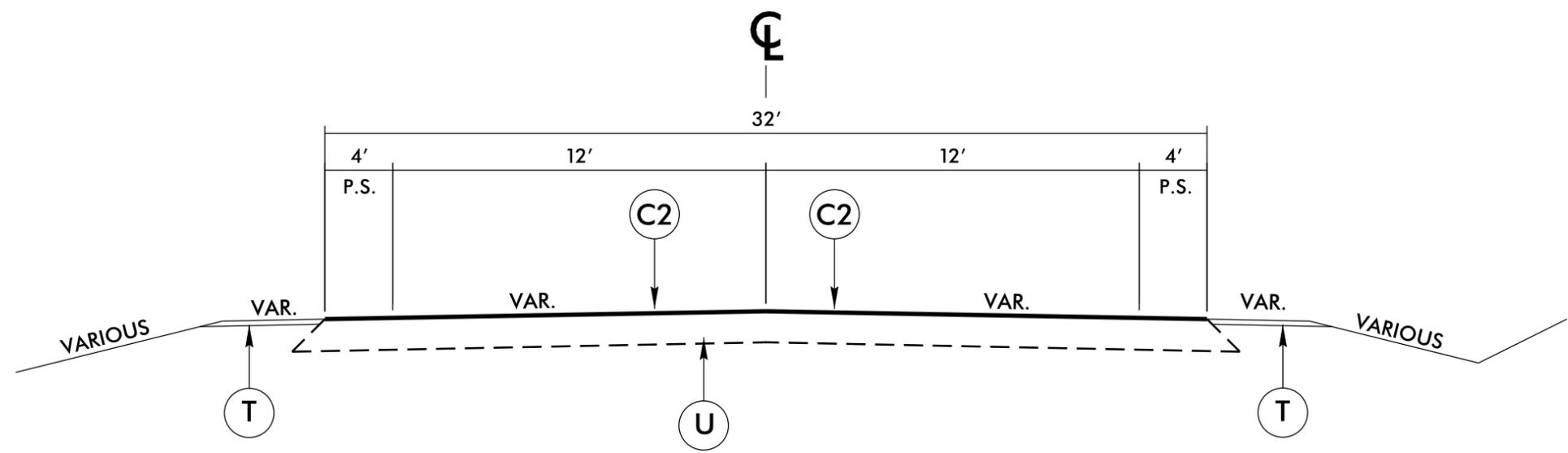
STATE OF NORTH CAROLINA
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ASHE COUNTY

2015 PRIMARY RESURFACING

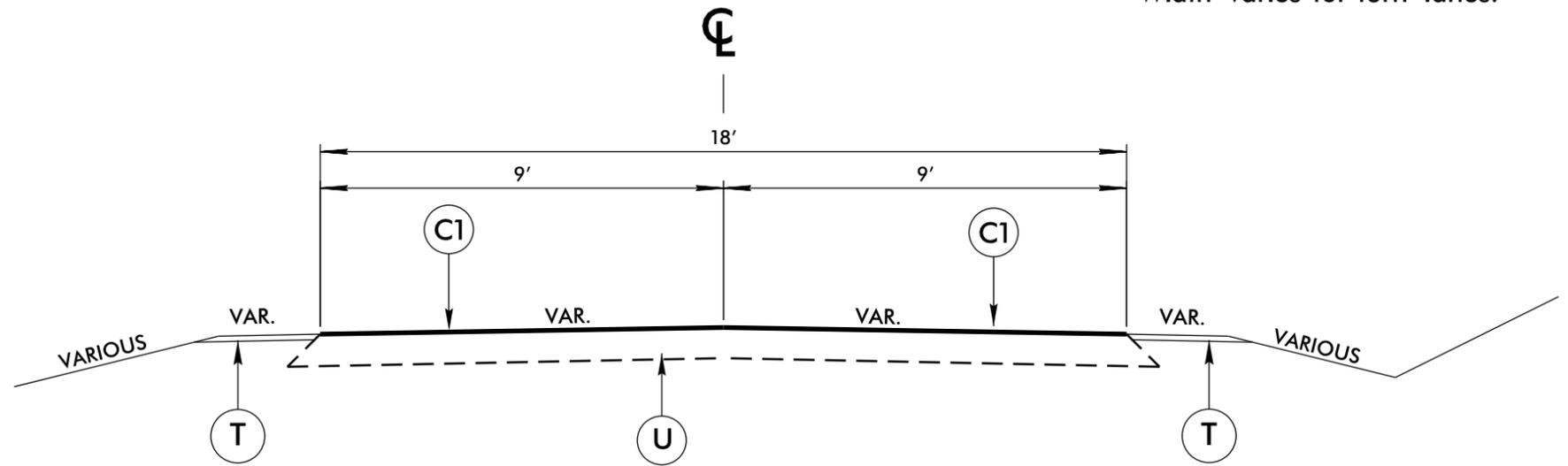


MAP #2
NC 88 (8.99MILES)
FROM WATAUGA COUNTY LINE
TO SR 1387
TYPE: SF9.5A



TYPICAL SECTION NO. 1

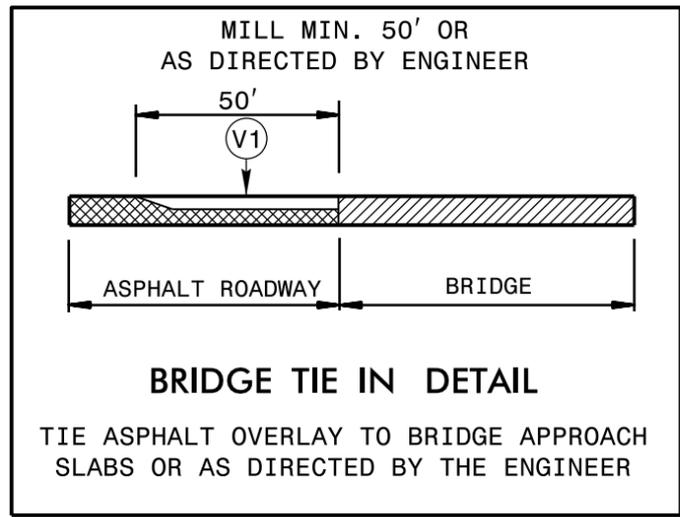
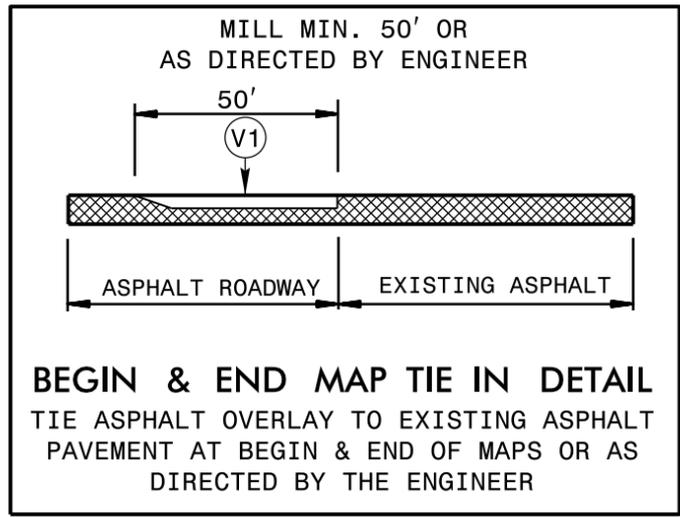
MAP 1 - US 221 FROM WCL OF JEFFERSON TO US 221 BUS
 NOTE: Mill Monolithic Island areas as directed by the Engineer.
 Width varies for turn lanes.



TYPICAL SECTION NO. 2

MAP 2 - NC 88 FROM WATAUGA COUNTY LINE TO SR 1387
 NOTE: Mill Bridge Approaches per Bridge Tie-In Detail.

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING



**ASHE COUNTY
PRIMARY RESURFACING**

DIVISION II

REVISIONS	INT.	DATE

**N.C. DEPARTMENT of TRANSPORTATION
DIVISION of HIGHWAYS
DIVISION ELEVEN**

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SCALE: N/A DATE: 10/2014

PREPARED BY: J. L. LAWS

REVIEWED BY: _____

REVIEWED BY: _____

PROJECT NO.	SHEET NO.	TOTAL NO.
11CR.10051.22		

SUMMARY OF QUANTITIES

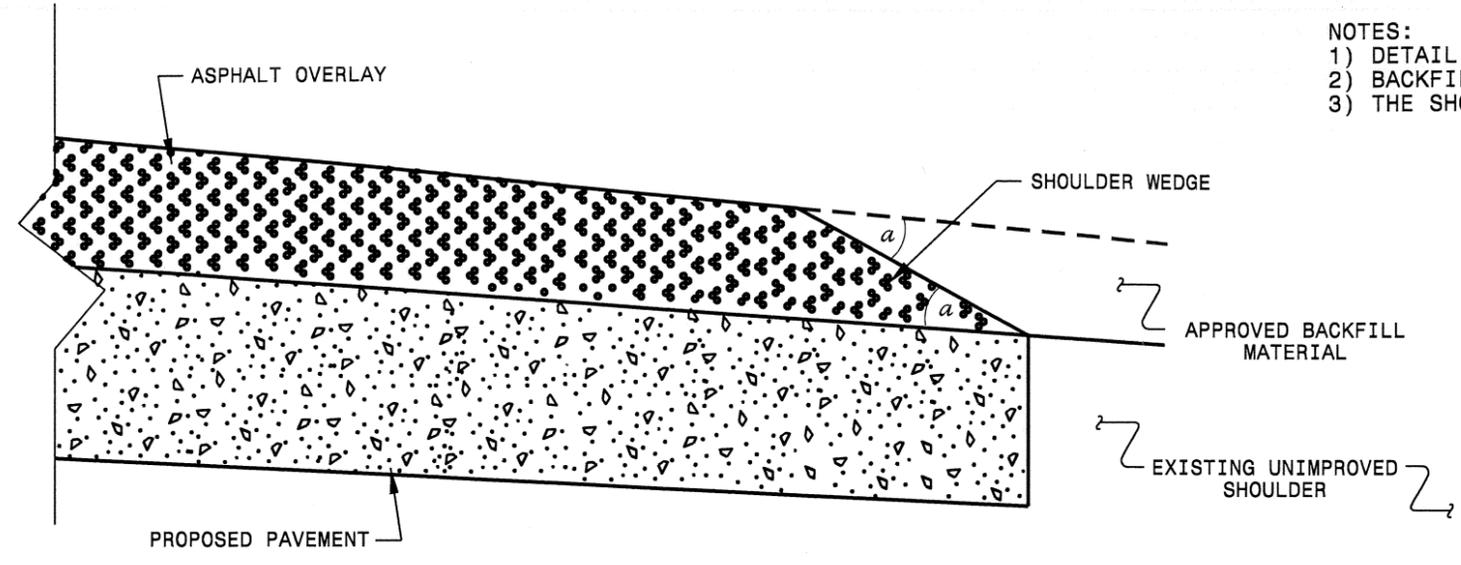
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH M	WIDTH FT	BORROW EXCAVATION CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SM	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	ADJ. OF METER OR VALVE BOX EA	SEED & MULCHING AC	PAVED TRENCHING (1, 2") LF	UNPAVED TRENCHING (1, 2") LF	JUNCTION BOX (STANDARD SIZE) EA	INDUCTIVE LOOP LF	LEAD-IN CABLE (14-2) LF
11CR.10051.22	Ashe	1	US 221	FROM WCL OF JEFFERSON TO US 221 BUS	1	2	2WU	NO	NO	3.16	32	652	100	6.52	3,000	6,700		402	1	1.10	50.00	100.00	2.00	3,700	150
11CR.10051.22	Ashe	2	NC 88	FROM WATAUGA COUNTY LINE TO SR 1387	2	2	2WU	NO	NO	8.99	18	1,798	400	17.98	600		8,700	583		6.50					
TOTAL FOR PROJ NO. 11CR.10051.22										12.15		2,450	500	24.50	3,600	6,700	8,700	985	1	7.60	50.00	100.00	2.00	3,700	150
GRANDTOTAL										12.15		2,450	500	24.50	3,600	6,700	8,700	985	1	7.60	50.00	100.00	2.00	3,700	150

PROJECT NO.	SHEET NO.	TOTAL NO.
11CR.10051.22		

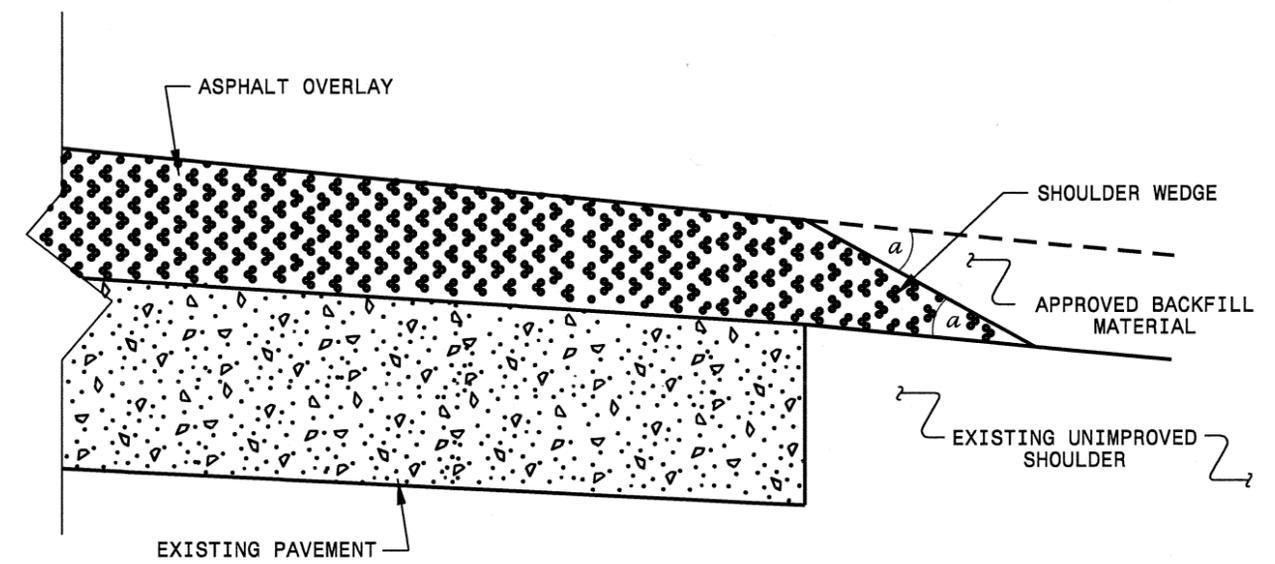
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4810000000-E		4815000000-E	4820000000-E		4835000000-E	4840000000-N	4845000000-N		4905000000-N		
										WDRK ZONE ADVANCE/GENERAL WARNING SIGNS	TEMPORARY TRAFFIC CONTROL	4" YELLOW PAINT	4" WHITE PAINT	6" WHITE PAINT	8" WHITE PAINT	8" YELLOW PAINT	24" WHITE PAINT	PAINT M&G ONLY	PAINT LT ARROW	PAINT RT ARROW	PAINT STR & RT ARROW	PAINT STR ARROW	SNOW PLOWABLE MARKERS
										SF	LS	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	
11CR.10051.22	Ashe	1	US 221	FROM WCL OF JEFFERSON TO US 221 BUS	1	2	2WU	3.16	32	184	1	94,300	73,900	300	500	1,700	600	16	22	16	4	8	210
11CR.10051.22	Ashe	2	NC 88	FROM WATAUGA COUNTY LINE TO SR 1387	2	2	2WU	8.99	18	584	*	189,869	189,869										595
TOTAL FOR PROJ NO. 11CR.10051.22								12.15		768	1	284,169	263,769	300	500	1,700	600	16	22	16	4	8	805
										547,938		2,200		50									
GRANDTOTAL								12.15		768	1	284,169	263,769	300	500	1,700	600	16	22	16	4	8	805
										547,938		2,200		50									

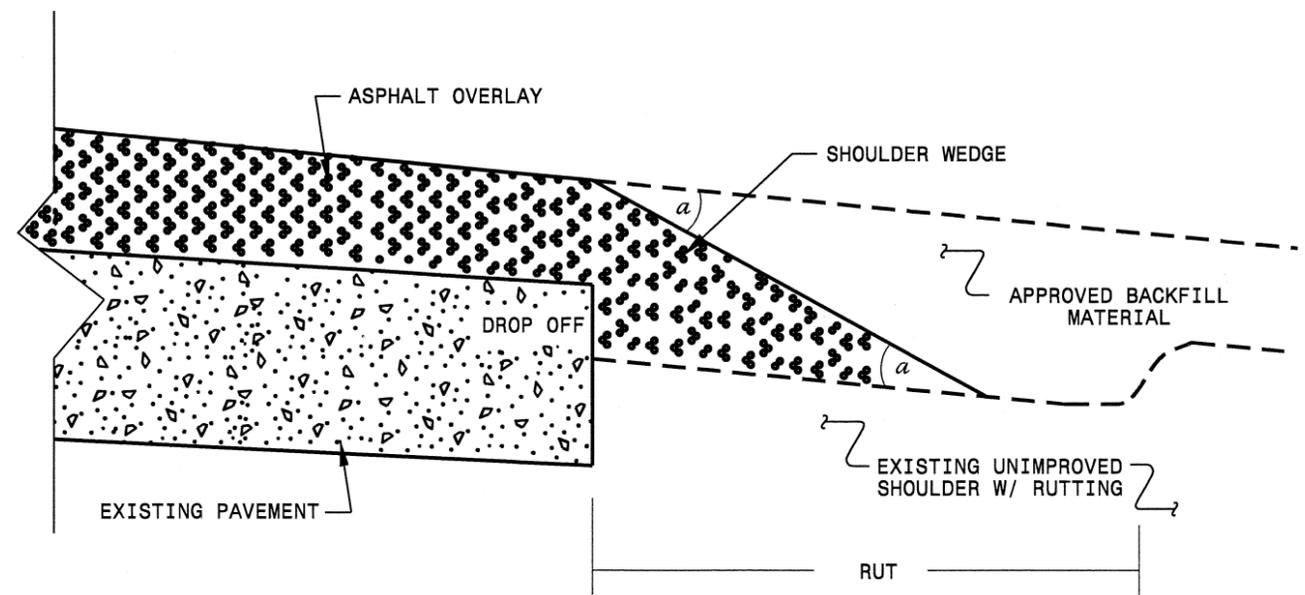
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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°

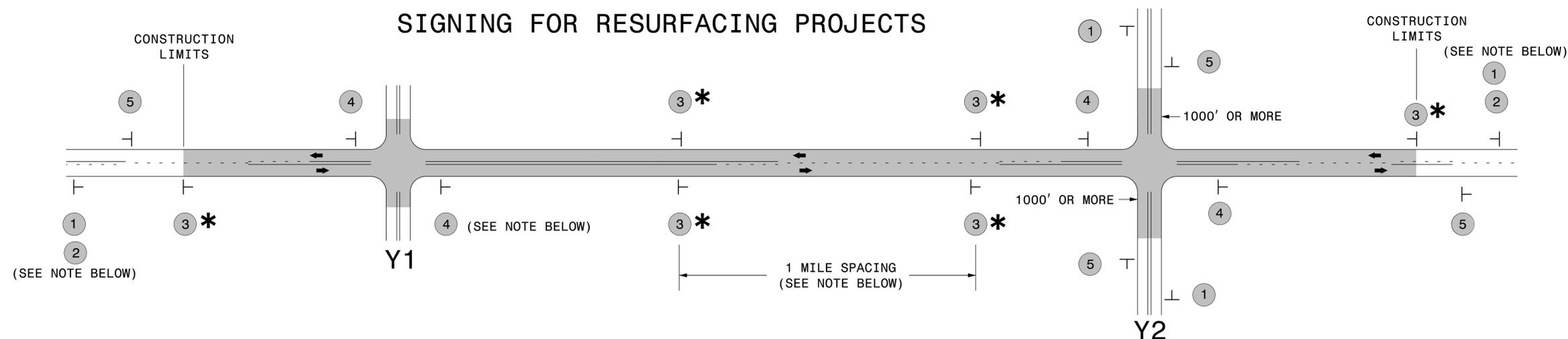
CONTRACT STANDARDS
 AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

**SHOULDER WEDGE
 DETAILS**

ORIGINAL BY: T.SPELL DATE: 7-19-11
 MODIFIED BY: DATE: 10/18/12
 CHECKED BY: DATE:
 FILE SPEC.: s:\user\details\stand\shoulderwedgedetail.dgn

SYSTEMS CONSULTANTS
 CONSULTANTS

SIGNING FOR RESURFACING PROJECTS



LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1	 <small>W20-1 48" X 48"</small>	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.		
	2	 <small>W7-3aP 24" X 18"</small>	#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)		
	3 *	 <small>SP 13107 48" X 48"</small>	PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.		
	4	 <small>SP 13106 48" X 48"</small>	THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. 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. A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.		
	5	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		

**NO REQUIRED STATIONARY SIGNING FOR THE
FOLLOWING -Y- LINE CONDITIONS:**

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

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.



W20-1
48" X 48"



W20-7 A
48" X 48"

PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

* SIGNING FOR ASPHALT SURFACE TREATMENTS (ONLY)

SUBSTITUTE LOW/SOFT SHOULDER SIGNS BY ALTERNATING THE FOLLOWING TWO SIGNS:
STARTING WITH "UNMARKED PAVEMENT AHEAD" (SP 06026) FOLLOWED BY "LOOSE GRAVEL" (W8-7).



**RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS**