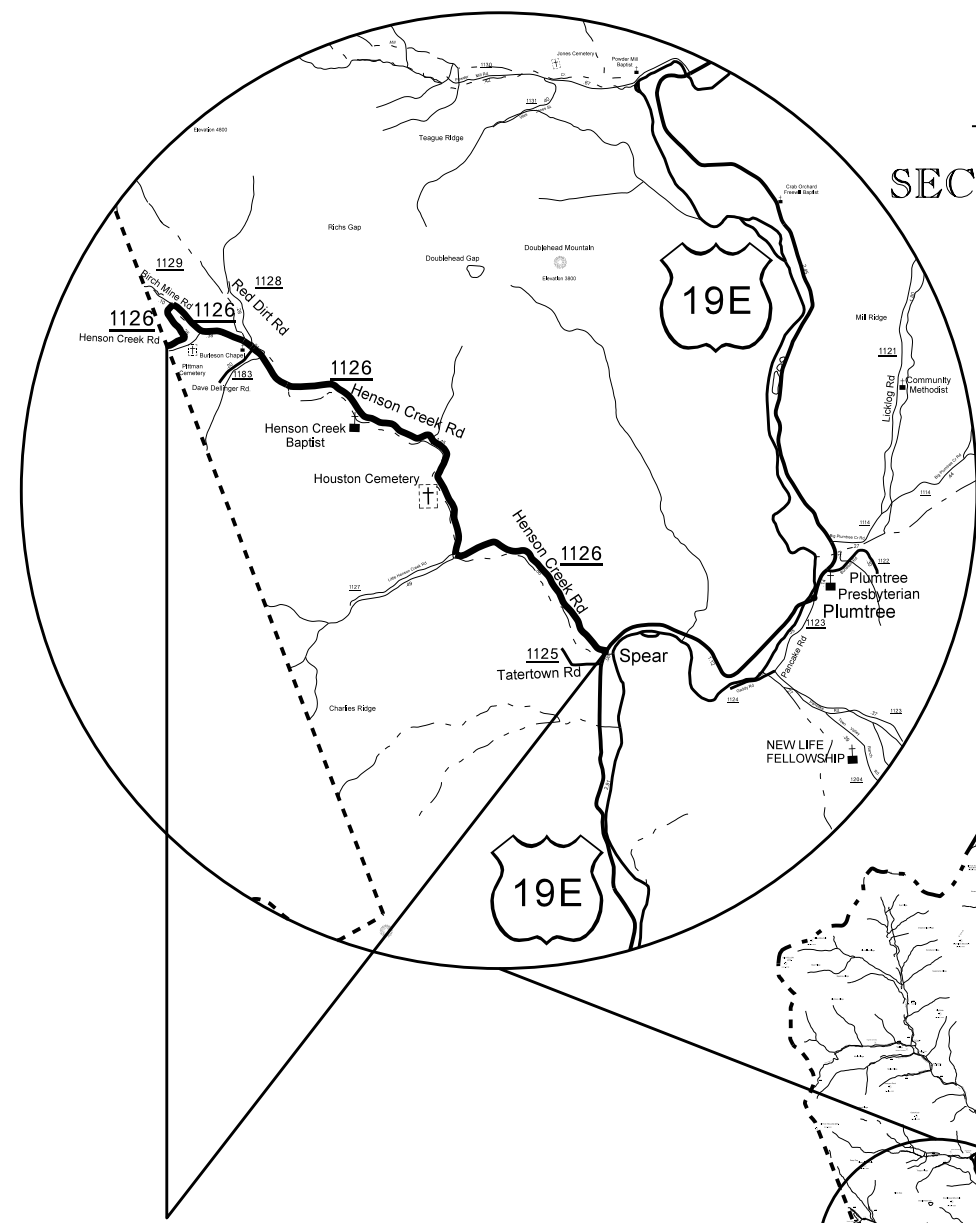


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

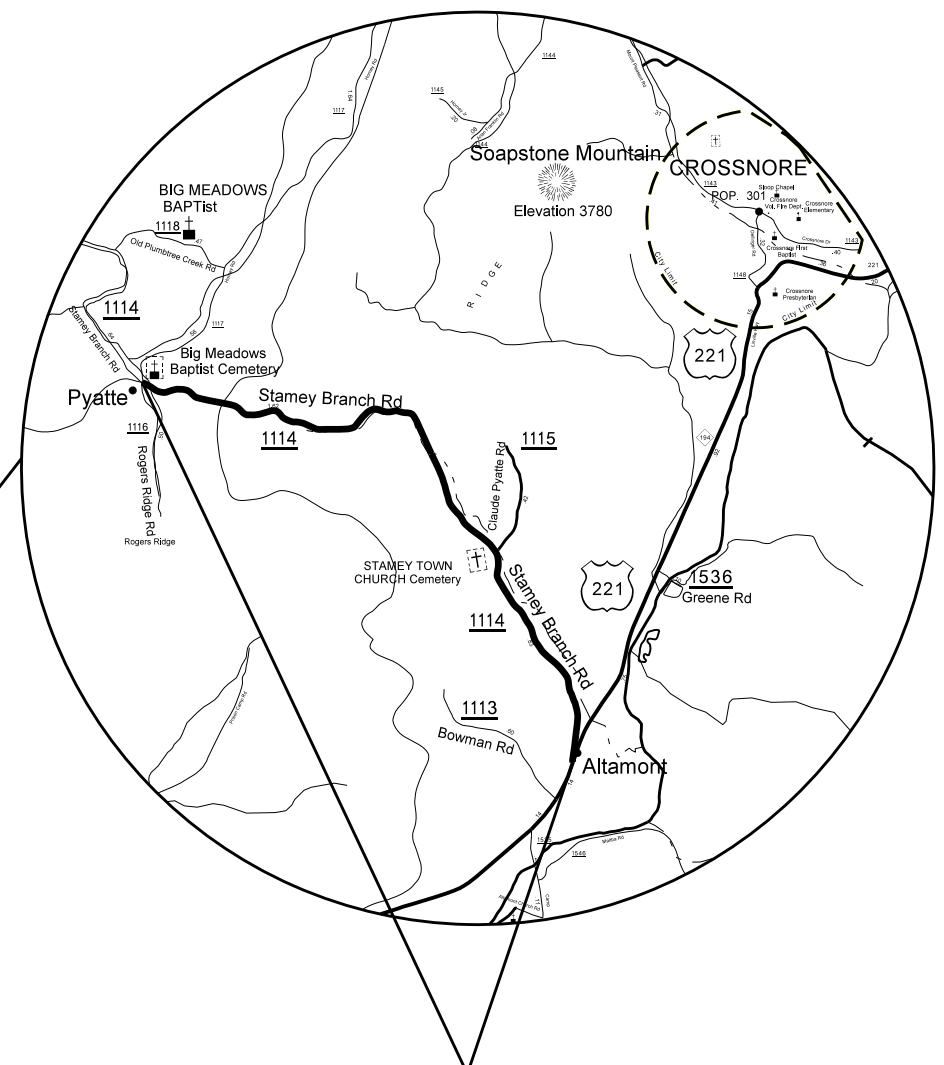
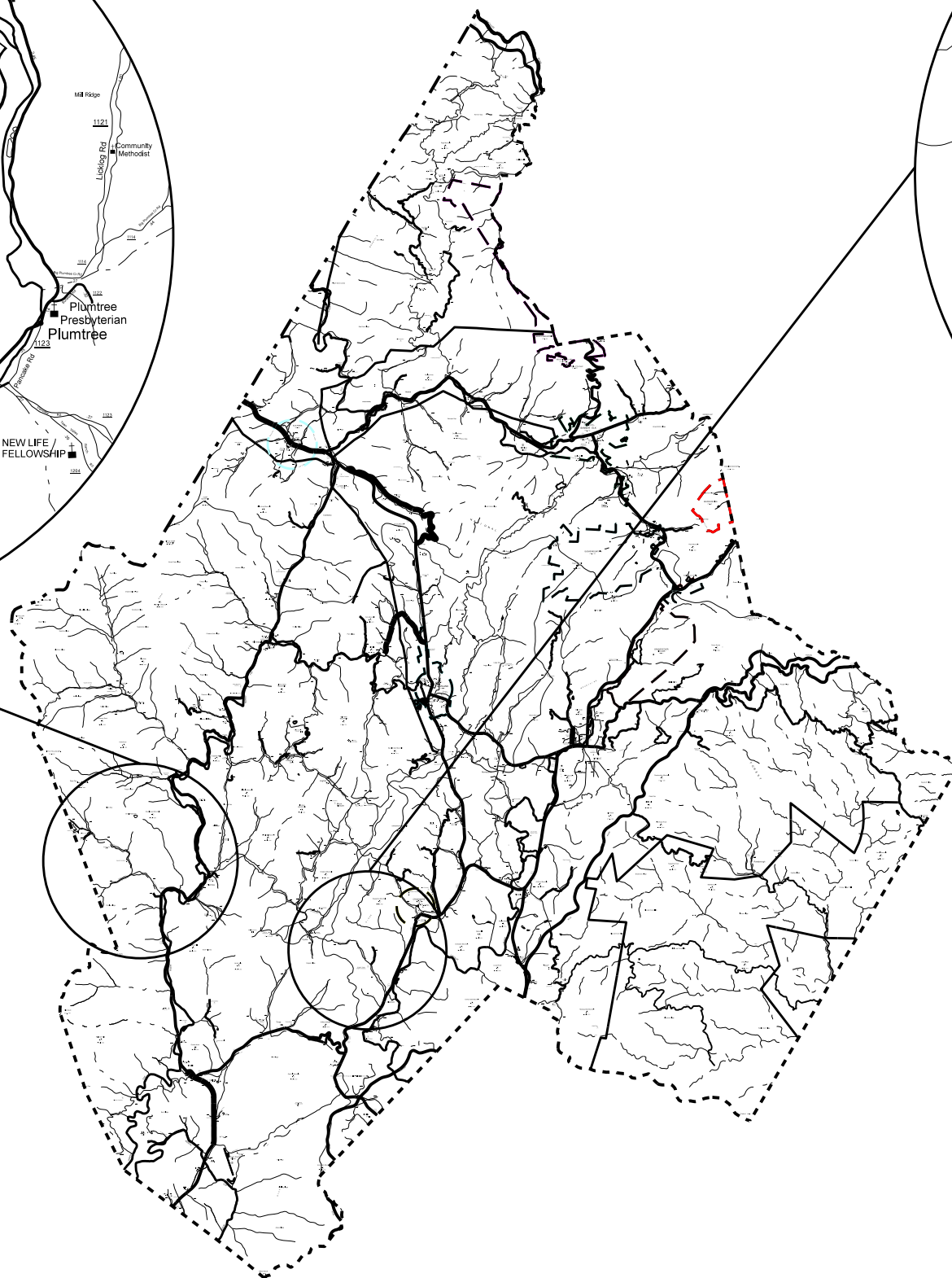
AVERY COUNTY

SECONDARY ASPHALT RESURFACING



MAP #4 SR 1126
FROM US 19E
TO END MAIN

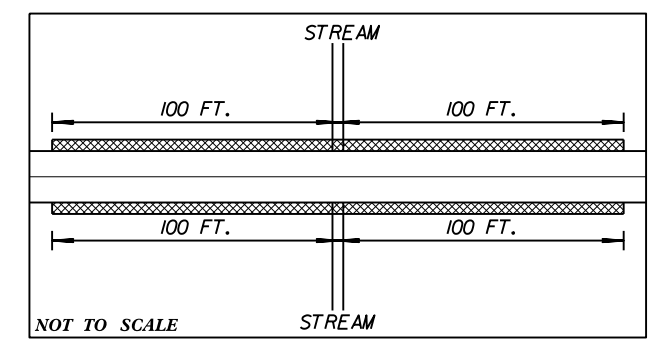
AGGREGATE SHOULDER BORROW TO BE
PLACED AT LIVE STREAMS: SEE DETAIL
* APPROX. STATION 115+00 TO 117+00 LT & RT
* APPROX. STATION 140+00 TO END MAINT. LT



MAP #3 SR 1114
FROM SR 1117
TO US 221

AGGREGATE SHOULDER BORROW TO BE
PLACED AT LIVE STREAMS: SEE DETAIL
* ENTIRE MAP

*DETAIL FOR AGGREGATE SHOULDER BORROW
AT STREAM CROSSING

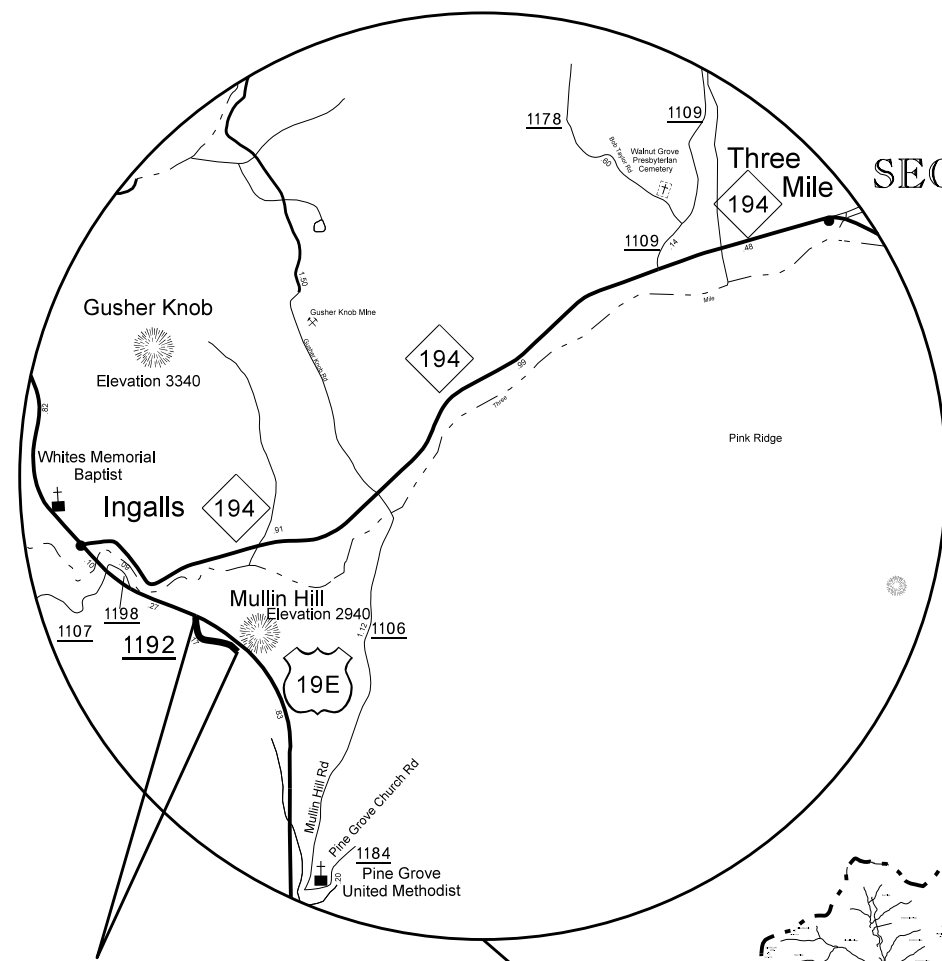


NOT TO SCALE
HATCHED AREA SHOWS PLACEMENT
OF AGGREGATE SHOULDER BORROW

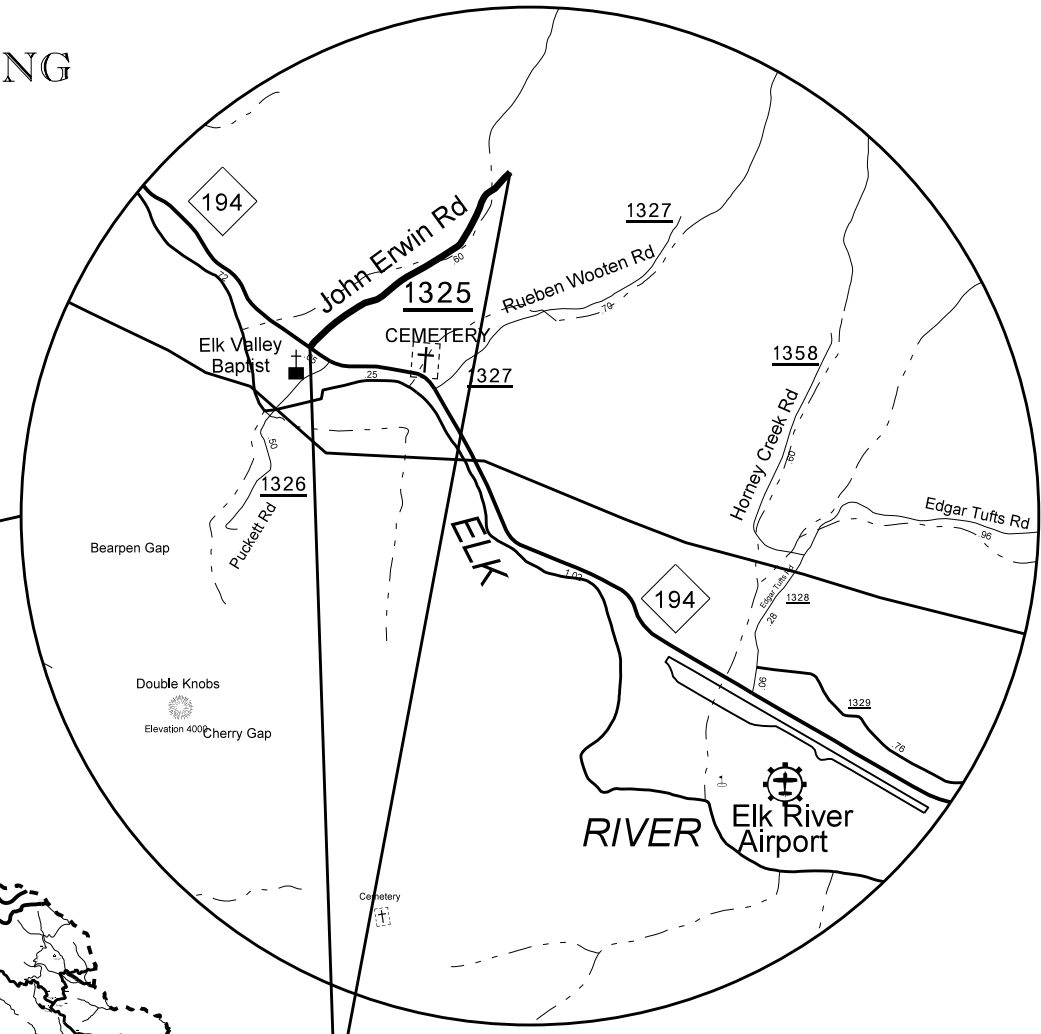
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

AVERY COUNTY

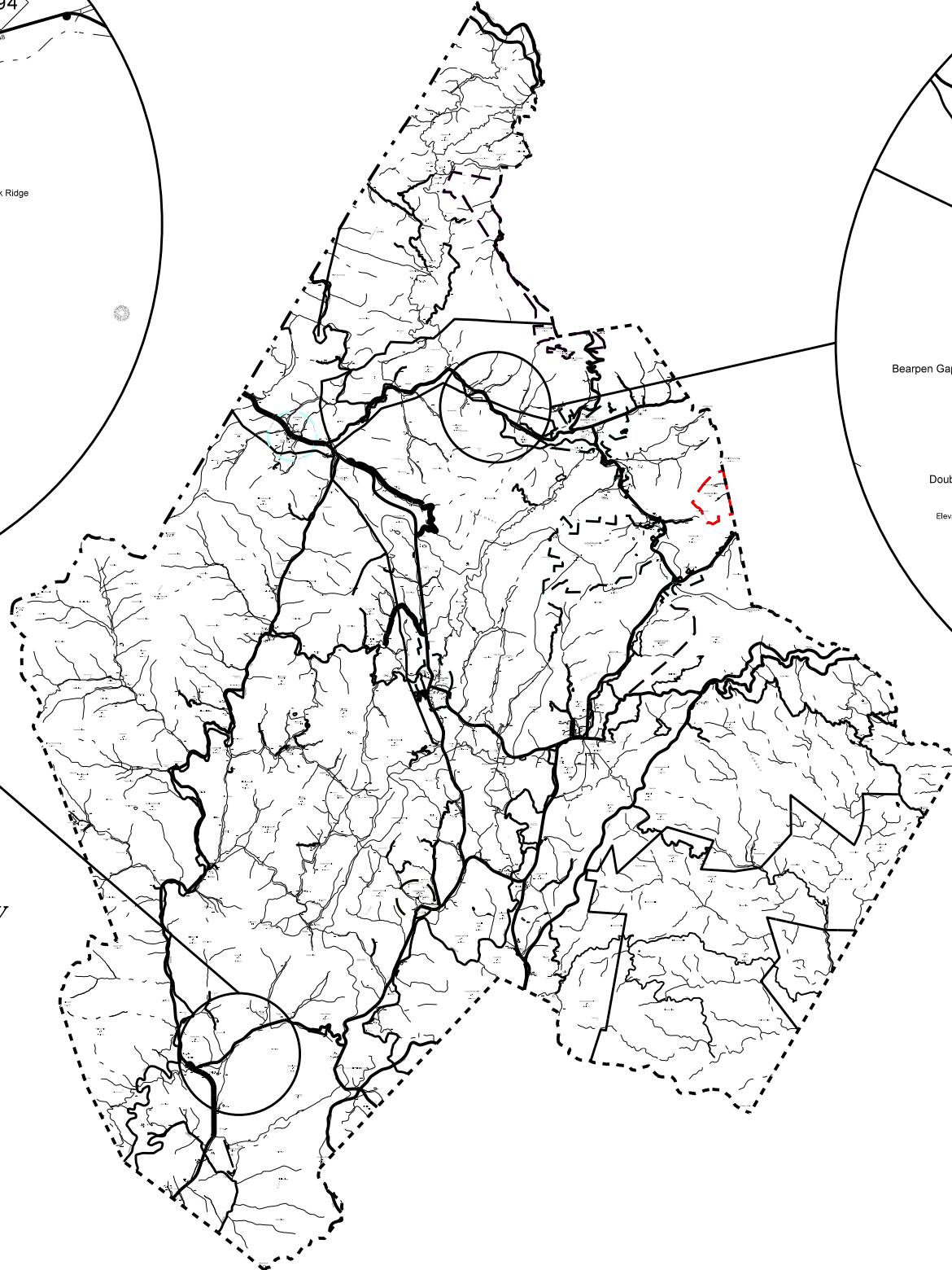
SECONDARY ASPHALT RESURFACING



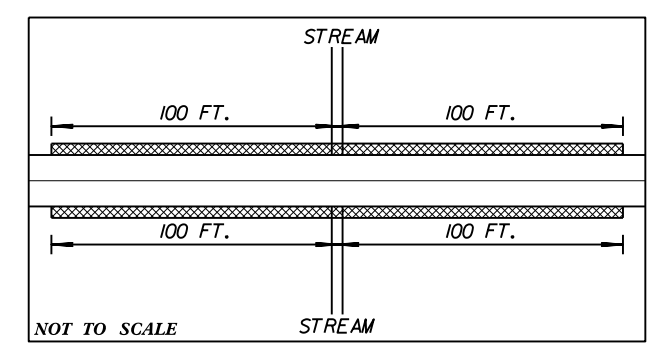
MAP #5 SR 1192
FROM US 19E
TO END MAIN



MAP #6 SR 1325
FROM NC 194
TO DEAD END



***DETAIL FOR AGGREGATE SHOULDER BORROW
AT STREAM CROSSING**



NOT TO SCALE
STREAM
HATCHED AREA SHOWS PLACEMENT
OF AGGREGATE SHOULDER BORROW

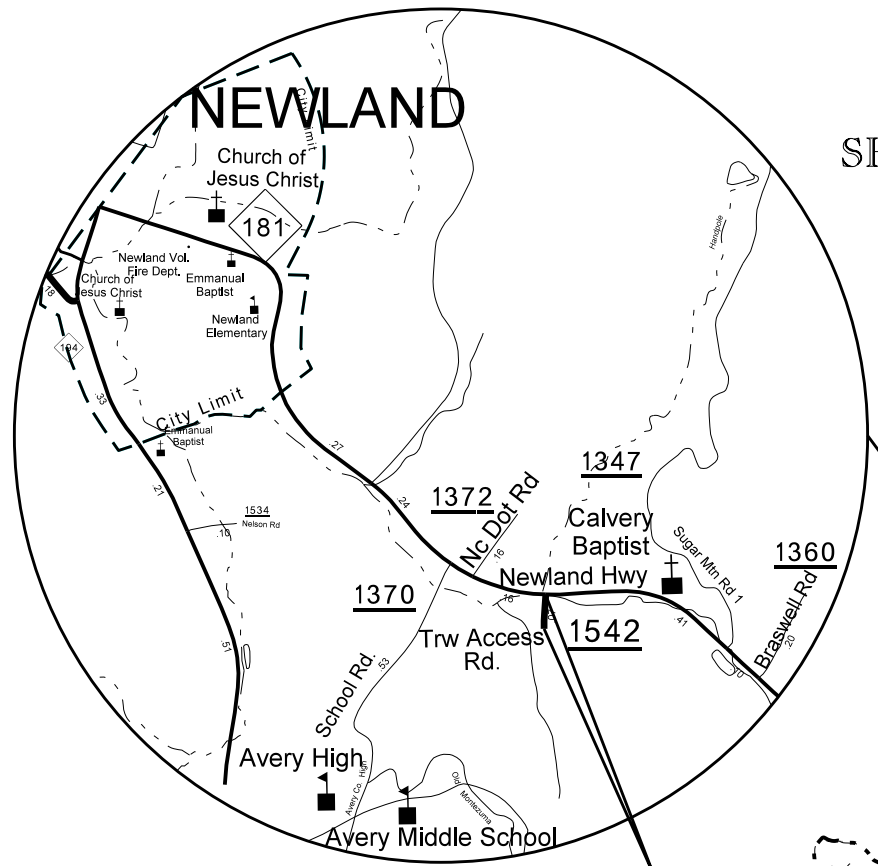
AGGREGATE SHOULDER BORROW TO BE
PLACED AT LIVE STREAMS: SEE DETAIL
* APPROX. STATION 30+00 TO DEAD END LT & RT

REVISIONS
 8/17/09
 P:\MIX\2008\AVERY WATAUGA PlantMix-Resurf-Maps\2018_Sht1.dgn
 2018/08/17 10:54 AM

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

AVERY COUNTY

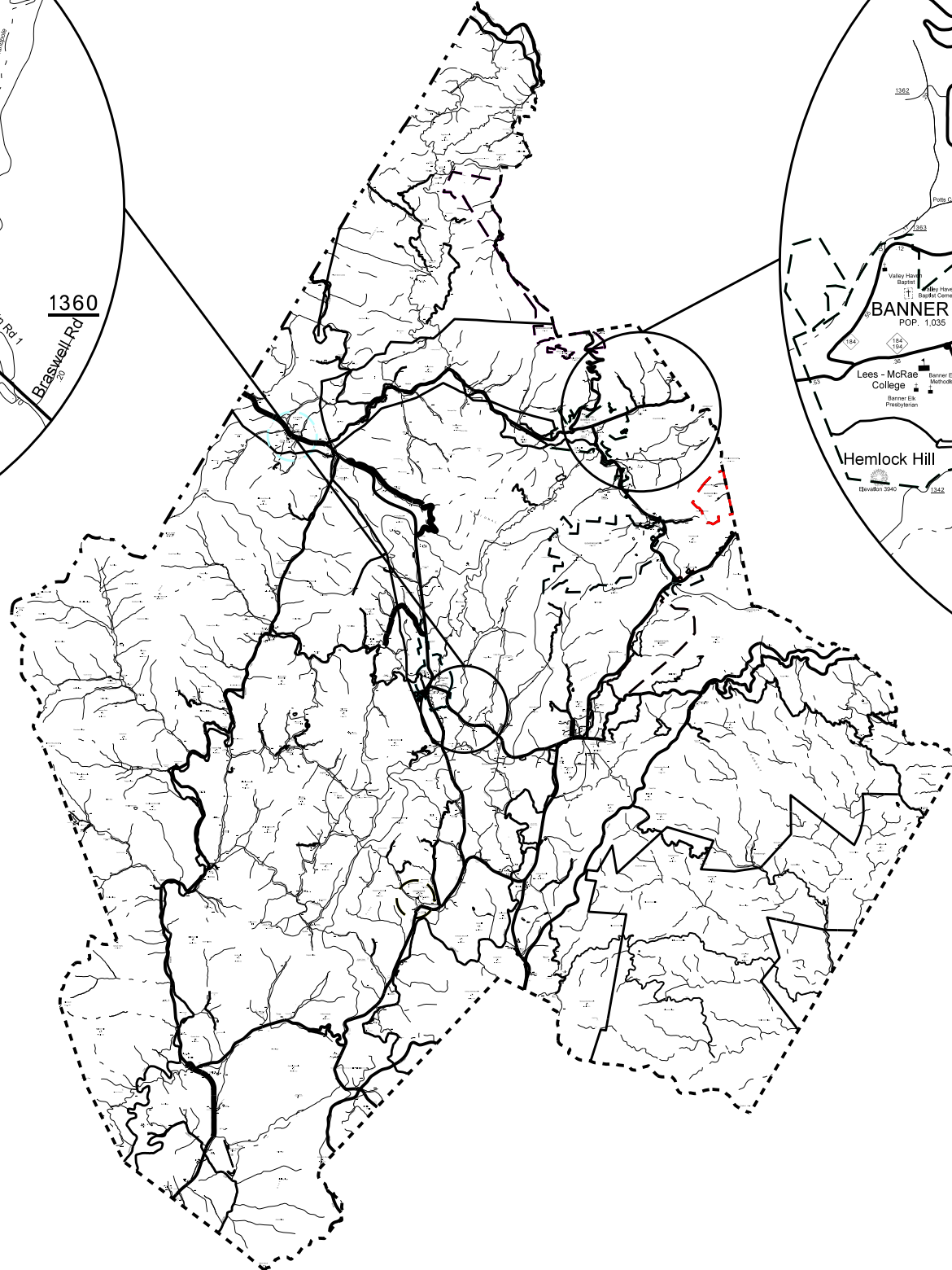
SECONDARY ASPHALT RESURFACING



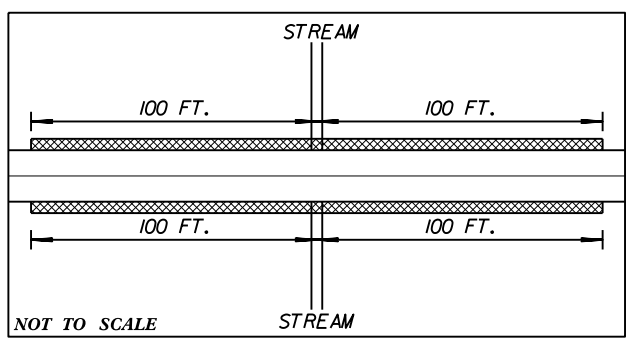
MAP #8 SR 1542
FROM NC 181
TO END MAIN



MAP #7 SR 1376
FROM SR 1355
TO END MAIN



***DETAIL FOR AGGREGATE SHOULDER BORROW AT STREAM CROSSING**



NOT TO SCALE

HATCHED AREA SHOWS PLACEMENT OF AGGREGATE SHOULDER BORROW

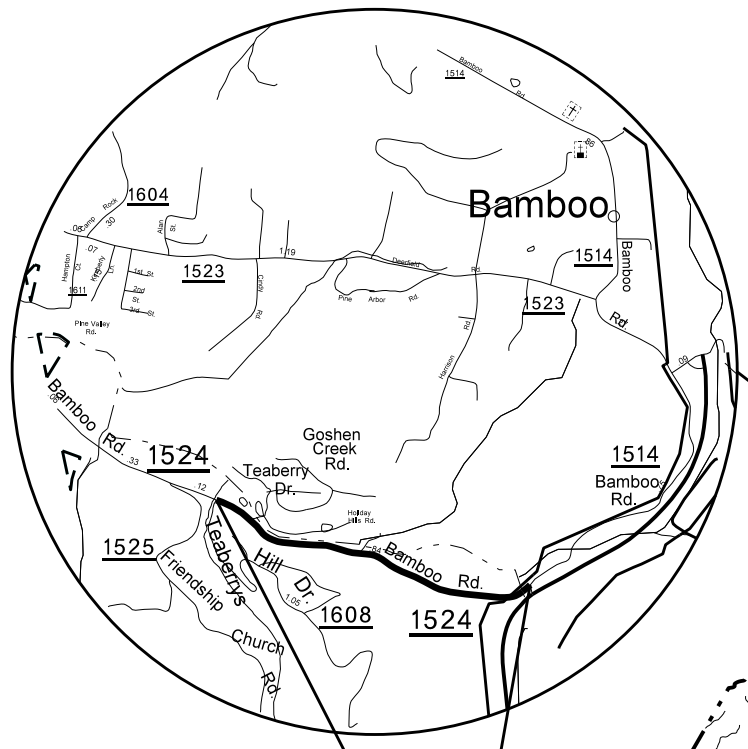
AGGREGATE SHOULDER BORROW TO BE PLACED AT LIVE STREAMS: SEE DETAIL * ENTIRE MAP

REVISIONS
 8/17/09
 PA: M.V. 2008, WATKINS, WATAUGA Plant Mix, Resurfacing, Maps2018_Sht1.dgn

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

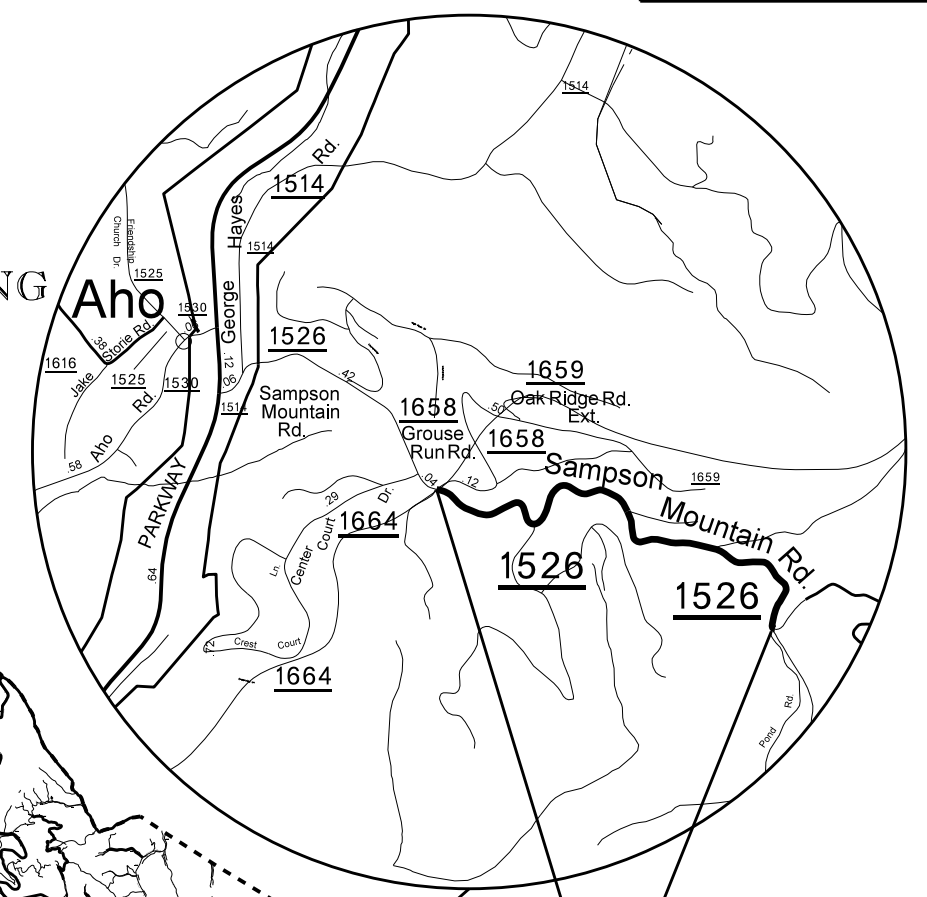
WATAUGA COUNTY

SECONDARY ASPHALT RESURFACING



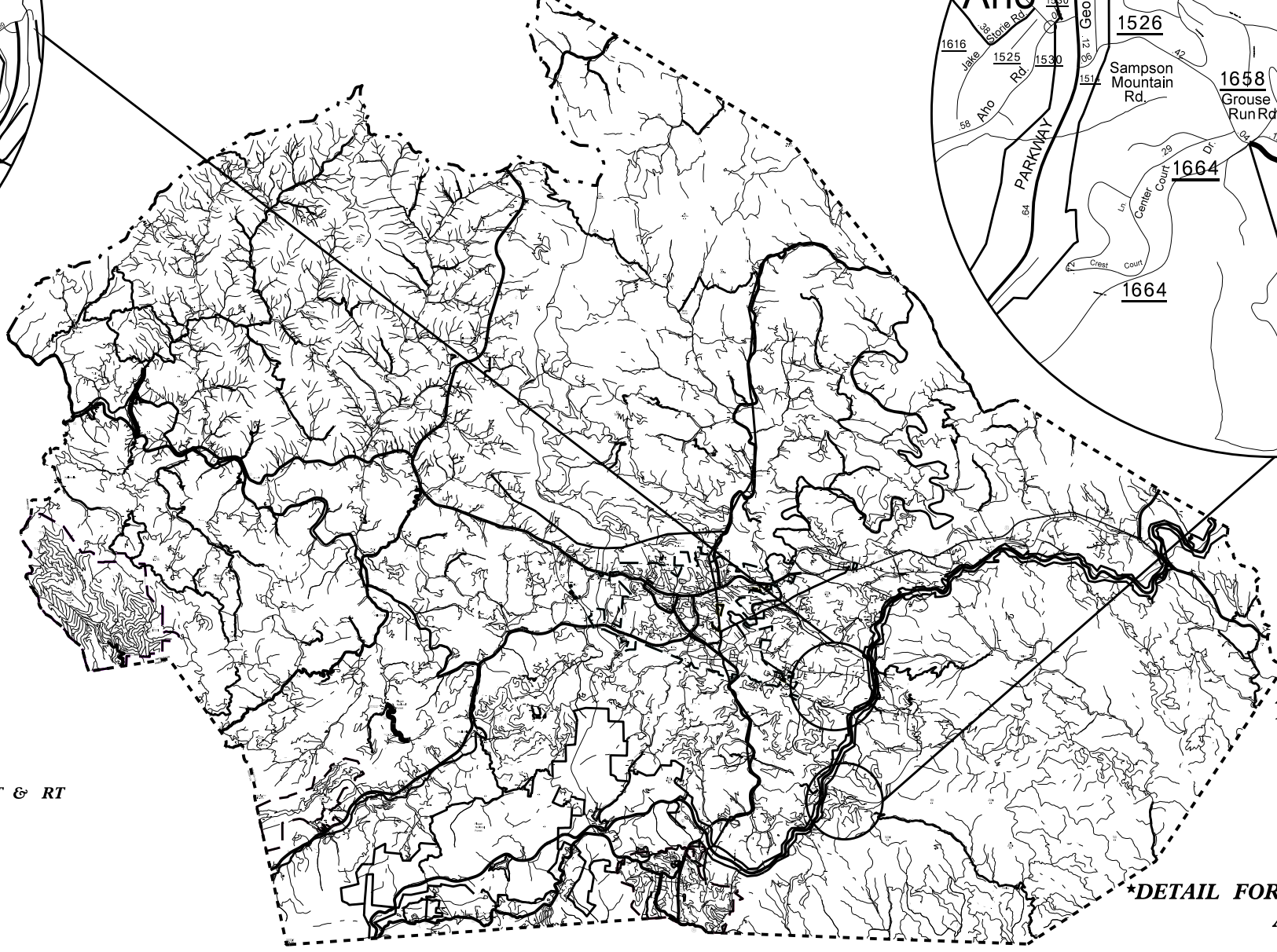
MAP #11 SR 1524
FROM SR 1608
TO SR 1514

AGGREGATE SHOULDER BORROW TO BE
PLACED AT LIVE STREAMS: SEE DETAIL
* APPROX. STATION 0+00 TO 2+00 LT & RT
* APPROX. STATION 7+00 TO 13+00 LT
* APPROX. STATION 13+00 TO 24+00 LT & RT
* APPROX. STATION 32+00 TO 34+00 LT & RT
* APPROX. STATION 42+00 TO END OF PAVMT. LT & RT

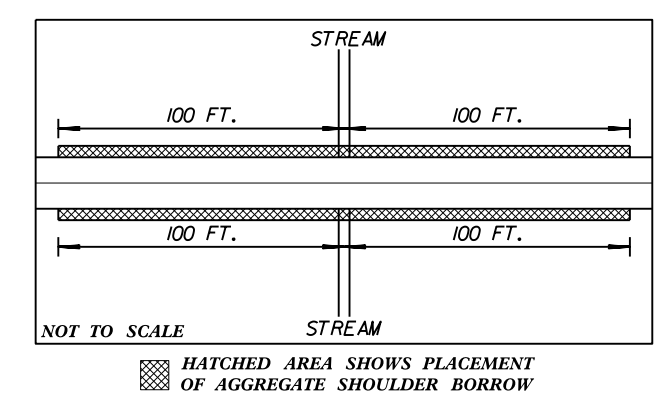


MAP #12 SR 1526
FROM SR 1658
TO END PVMT

AGGREGATE SHOULDER BORROW TO BE
PLACED AT LIVE STREAMS: SEE DETAIL
* APPROX. STATION 7+00 TO 9+00 LT & RT



***DETAIL FOR AGGREGATE SHOULDER BORROW
AT STREAM CROSSING**

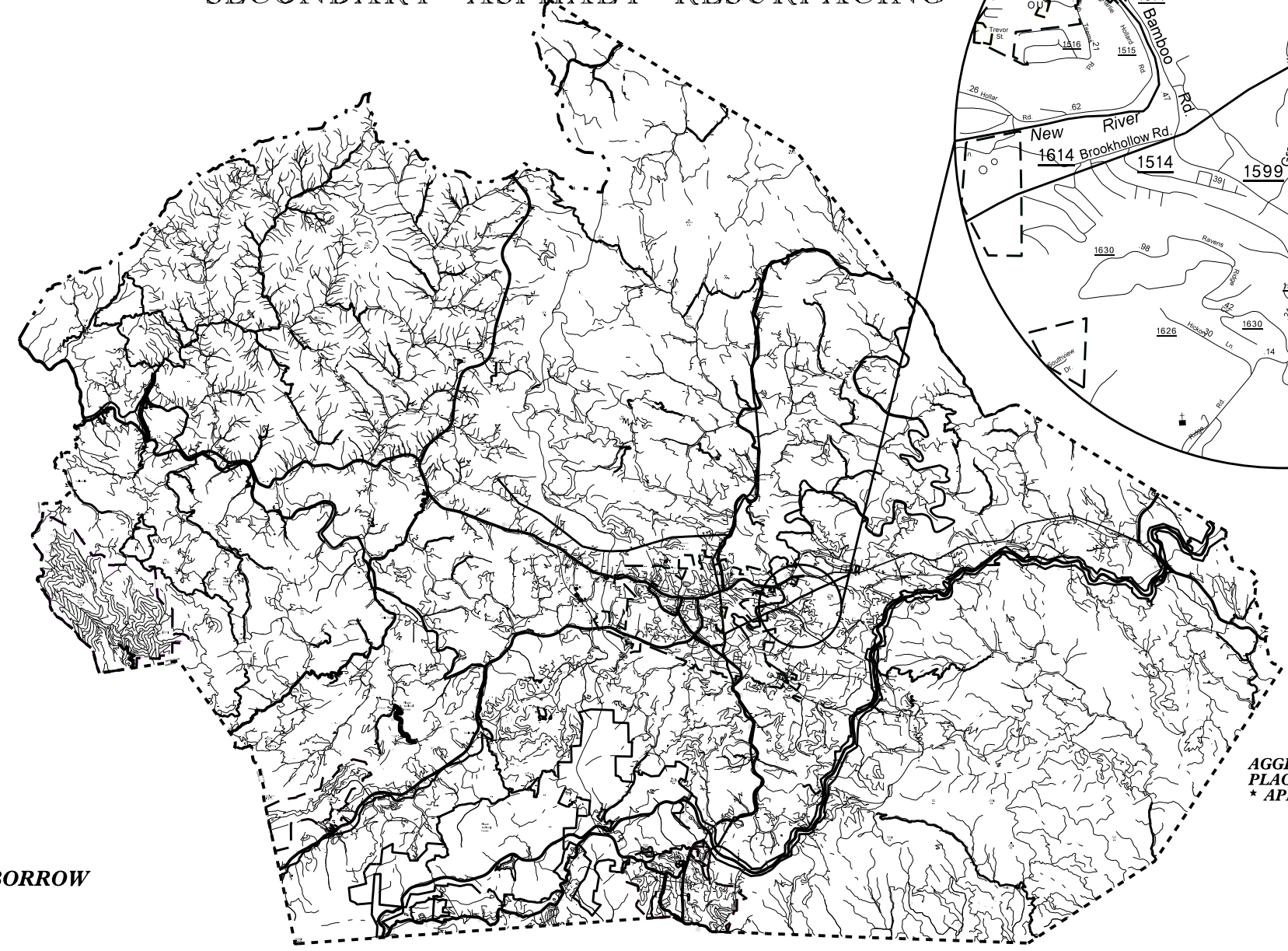


REVISIONS
 8/17/09
 PLANT MIX LAYER WATAUGA Plant Mix Resurfacing Maps 2018_Sht1.dgn
 11/15/18
 11/15/18
 11/15/18
 11/15/18

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WATAUGA COUNTY

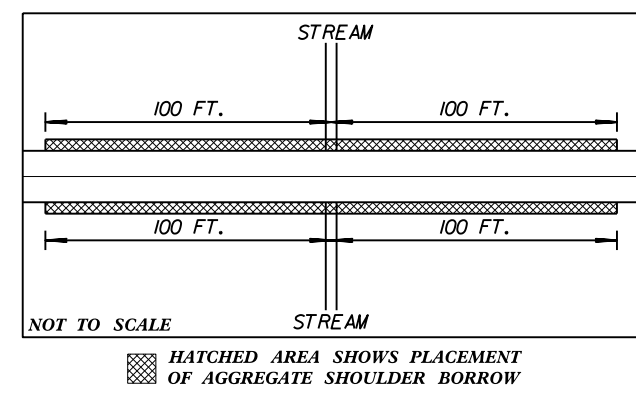
SECONDARY ASPHALT RESURFACING



**MAP #13 SR 1579
FROM SR 1514
TO END MAIN**

**AGGREGATE SHOULDER BORROW TO BE
PLACED AT LIVE STREAMS: SEE DETAIL
* APPROX. STATION 0+00 TO 4+00 LT & RT**

***DETAIL FOR AGGREGATE SHOULDER BORROW
AT STREAM CROSSING**

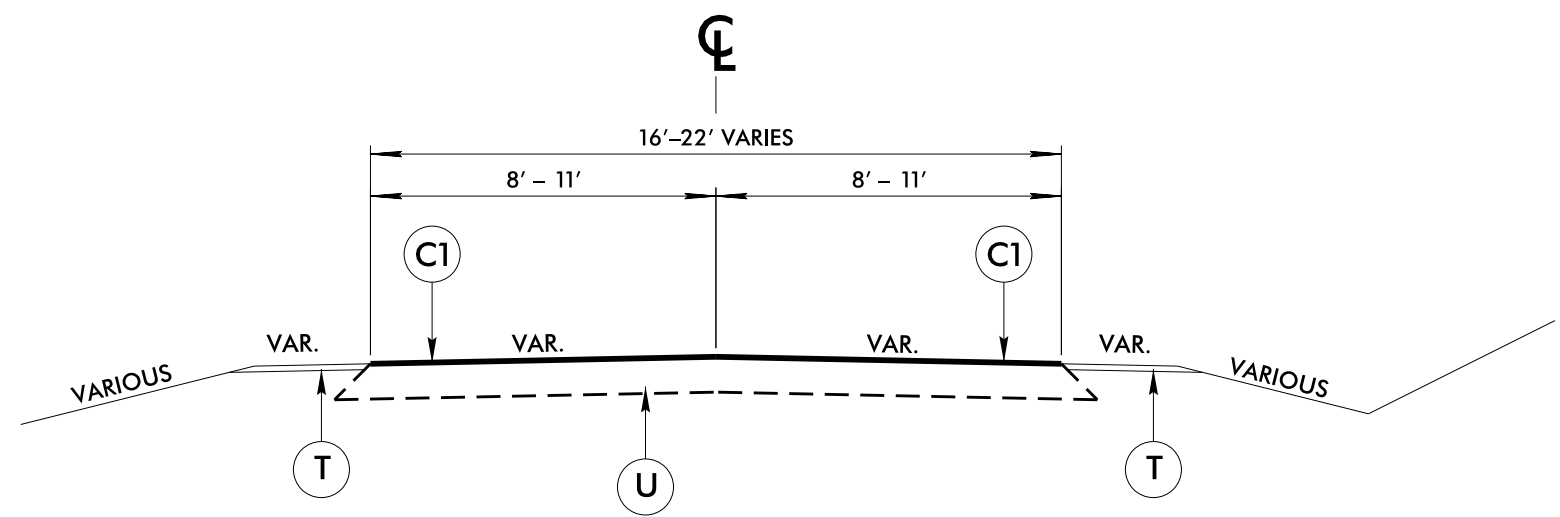


REVISIONS

8/17/09
P:\MIX\2008\1579\WATAUGA_PlantMix_Resurfacing_Maps2018_Sht1.dgn

8/17/99

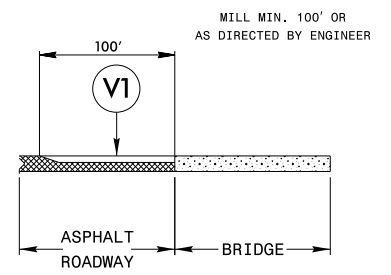
- * INCIDENTAL MILLING IN LOCATIONS AS DIRECTED BY ENGINEER
- * NOTE: ASHALT PATCHING IN LOCATIONS AS DIRECTED BY ENGINEER (WATAUGA CO. MAPS ONLY)



TYPICAL SECTION NO. 1

* MAP #1 THRU MAP #13

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



BRIDGE TIE IN DETAIL

TIE ASPHALT OVERLAY TO BRIDGE APPROACH SLABS OR AS DIRECTED BY THE ENGINEER

**AVERY AND WATAUGA COUNTIES
PRIMARY AND SECONDARY RESURFACING**

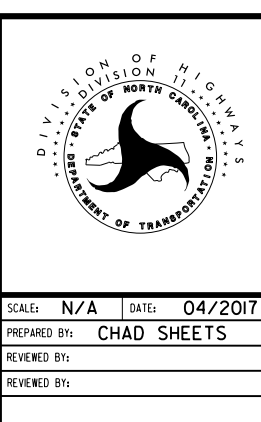
DIVISION II

REVISIONS	INIT.	DATE

SCALE: N/A DATE: 04/2017

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

PREPARED BY: CHAD SHEETS
REVIEWED BY:
REVIEWED BY:



PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.11.13.20061, 2018CPT.11.13.20951		

SUMMARY OF QUANTITIES

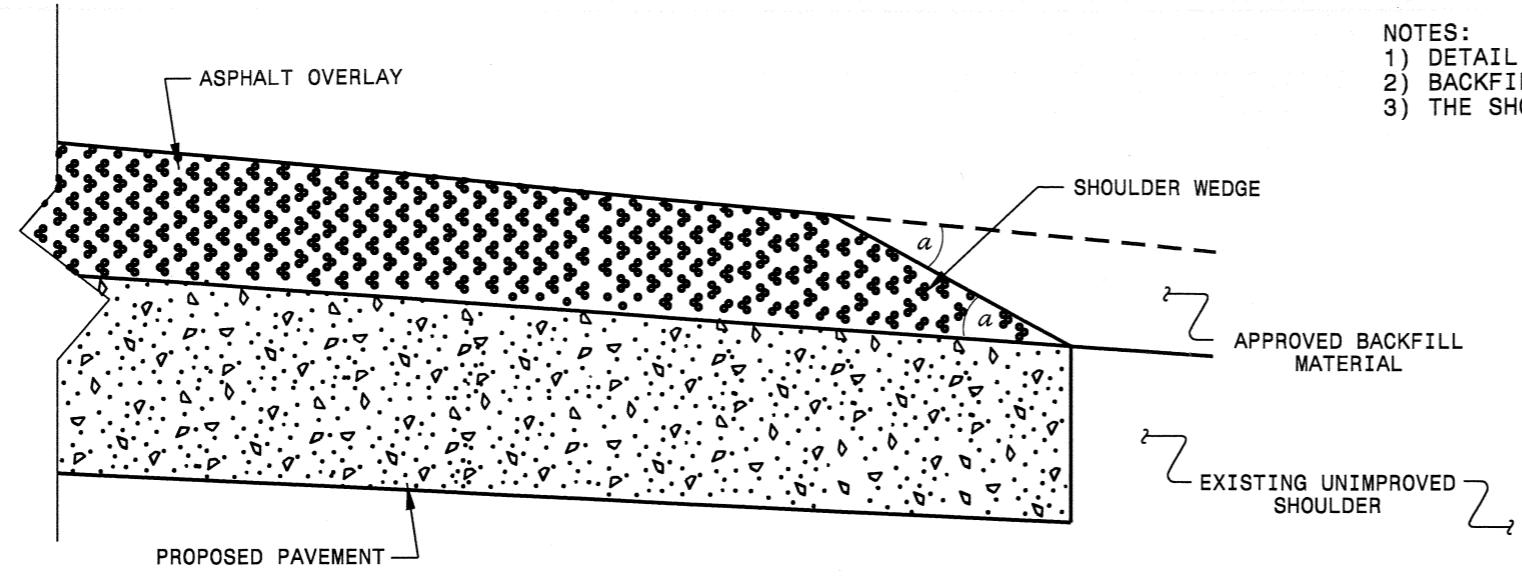
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH MI	WIDTH FT	BORROW CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	INCIDENTAL MILLING SY	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	SEED & MULCHING AC
2018CPT.11.13.20061	Avery	1	SR1102 (FRANKLINTOWN)	FROM MITCHELL CO. TO US-19E	1	2	2WU	NO	NO	0.39	18	78	25	0.78	600	367	25		0.38
2018CPT.11.13.20061	Avery	2	SR1114 (BIG PLUMTREE CREEK)	FROM US 19-E TO SR1117	1	2	2WU	NO	NO	3.75	18	750	300	7.50	3,000	3,590	241		3.64
2018CPT.11.13.20061	Avery	3	SR1114 (STAMEY BRANCH)	FROM SR1117 TO US221	1	2	2WU	NO	NO	2.39	16	478	200	4.78	1,000	2,115	142		2.32
2018CPT.11.13.20061	Avery	4	SR1126 (HENSON CREEK)	FROM US 19-E TO END OF MAINT.	1	2	2WU	NO	NO	2.95	18	590	300	5.90	1,000	3,088	207		2.86
2018CPT.11.13.20061	Avery	5	SR1192 (OLD 19-E)	FROM US 19-E TO DEAD END	1	2	2WU	NO	NO	0.13	20	26	20	0.26	300	152	10		0.13
2018CPT.11.13.20061	Avery	6	SR1325 (JOHN ERWIN)	FROM NC-194 TO DEAD END	1	2	2WU	NO	NO	0.61	16	122	50	1.22	200	501	34		0.59
2018CPT.11.13.20061	Avery	7	SR1376 (OLD HORSE BOTTOM)	FROM SR1355 TO END OF MAINT.	1	2	2WU	NO	NO	0.29	16	58	25	0.58	200	251	17		0.28
2018CPT.11.13.20061	Avery	8	SR1542 (TRW ACCESS)	FROM NC-181 TO END OF MAINT.	1	2	2WU	NO	NO	0.07	22	14	15	0.14	200	75	5		0.06
TOTAL FOR PROJ NO. 2018CPT.11.13.20061										10.58		2,116	935	21.16	6,500	10,139	681		10.26
2018CPT.11.13.20951	Watauga	9	SR1108 (WHITE OAK)	FROM SR1107 TO SR1109	1	2	2WU	NO	NO	1.09	18	218	75	2.18	500	1,106	74	400	1.06
2018CPT.11.13.20951	Watauga	10	SR1308 (JOE SHOEMAKER)	FROM SR1306 TO SR1371	1	2	2WU	NO	NO	1	20	200	50	2.00	600	1,174	79	400	0.97
2018CPT.11.13.20951	Watauga	11	SR1524 (BAMBOO)	FROM SR1608 TO SR1514	1	2	2WU	NO	NO	0.83	18	166	75	1.66	300	928	62	300	1.81
2018CPT.11.13.20951	Watauga	12	SR1526 (SAMPSON)	FROM SR1658 TO END OF PVMT.	1	2	2WU	NO	NO	0.86	18	172	75	1.72	300	829	56	300	0.83
2018CPT.11.13.20951	Avery	13	SR1579 (WILL COOK)	FROM SR1514 TO END OF MAINT.	1	2	2WU	NO	NO	0.2	16	40	10	0.40	100	181	12	20	0.19
TOTAL FOR PROJ NO. 2018CPT.11.13.20951										3.98		796	285	7.96	1,800	4,218	283	1,420	4.86
GRAND TOTAL										14.56		2,912	1,220	29.12	8,300	14,357	964	1,420	15.12

PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.11.13.20061, 2018CPT.11.13.20951		

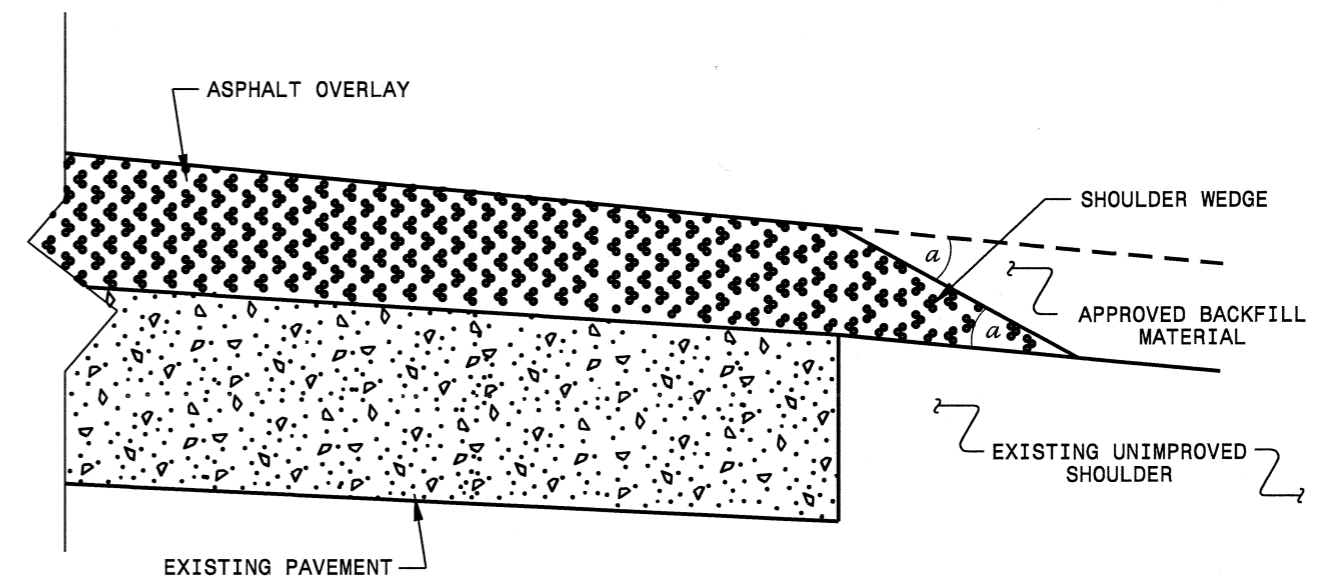
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4810000000-E	4810000000-E	
										WORK ZONE ADVANCE/GENERAL WARNING SIGNING SF	TEMPORARY TRAFFIC CONTROL LS	4" WHITE PAINT LF	4" YELLOW PAINT LF	
2018CPT.11.13.20061	Avery	1	SR1102 (FRANKLINTOWN)	FROM MITCHELL CO. TO US-19E	1	2	2WU	0.39	18	50	1.00	8,200	8,200	
2018CPT.11.13.20061	Avery	2	SR1114 (BIG PLUMTREE CREEK)	FROM US 19-E TO SR1117	1	2	2WU	3.75	18		1.00	79,200	79,200	
2018CPT.11.13.20061	Avery	3	SR1114 (STAMEY BRANCH)	FROM SR1117 TO US221	1	2	2WU	2.39	16	184		51,000	51,000	
2018CPT.11.13.20061	Avery	4	SR1126 (HENSON CREEK)	FROM US 19-E TO END OF MAINT.	1	2	2WU	2.95	18	164		63,000	63,000	
2018CPT.11.13.20061	Avery	5	SR1192 (OLD 19-E)	FROM US 19-E TO DEAD END	1	2	2WU	0.13	20					
2018CPT.11.13.20061	Avery	6	SR1325 (JOHN ERWIN)	FROM NC-194 TO DEAD END	1	2	2WU	0.61	16	50				
2018CPT.11.13.20061	Avery	7	SR1376 (OLD HORSE BOTTOM)	FROM SR1355 TO END OF MAINT.	1	2	2WU	0.29	16	56				
2018CPT.11.13.20061	Avery	8	SR1542 (TRW ACCESS)	FROM NC-181 TO END OF MAINT.	1	2	2WU	0.07	22	50				
TOTAL FOR PROJ NO. 2018CPT.11.13.20061									10.58		554	2	201,400	201,400
2018CPT.11.13.20951	Watauga	9	SR1108 (WHITE OAK)	FROM SR1107 TO SR1109	1	2	2WU	1.09	18	72		23,000	23,000	
2018CPT.11.13.20951	Watauga	10	SR1308 (JOE SHOEMAKER)	FROM SR1306 TO SR1371	1	2	2WU	1	20	72		21,500	21,500	
2018CPT.11.13.20951	Watauga	11	SR1524 (BAMBOO)	FROM SR1608 TO SR1514	1	2	2WU	0.83	18	64		17,800	17,800	
2018CPT.11.13.20951	Watauga	12	SR1526 (SAMPSON)	FROM SR1658 TO END OF PVMT.	1	2	2WU	0.86	18	64		18,500	18,500	
2018CPT.11.13.20951	Avery	13	SR1579 (WILL COOK)	FROM SR1514 TO END OF MAINT.	1	2	2WU	0.2	16	36				
TOTAL FOR PROJ NO. 2018CPT.11.13.20951									3.98		308		80,800	80,800
GRAND TOTAL									14.56		862	2	282,200	282,200

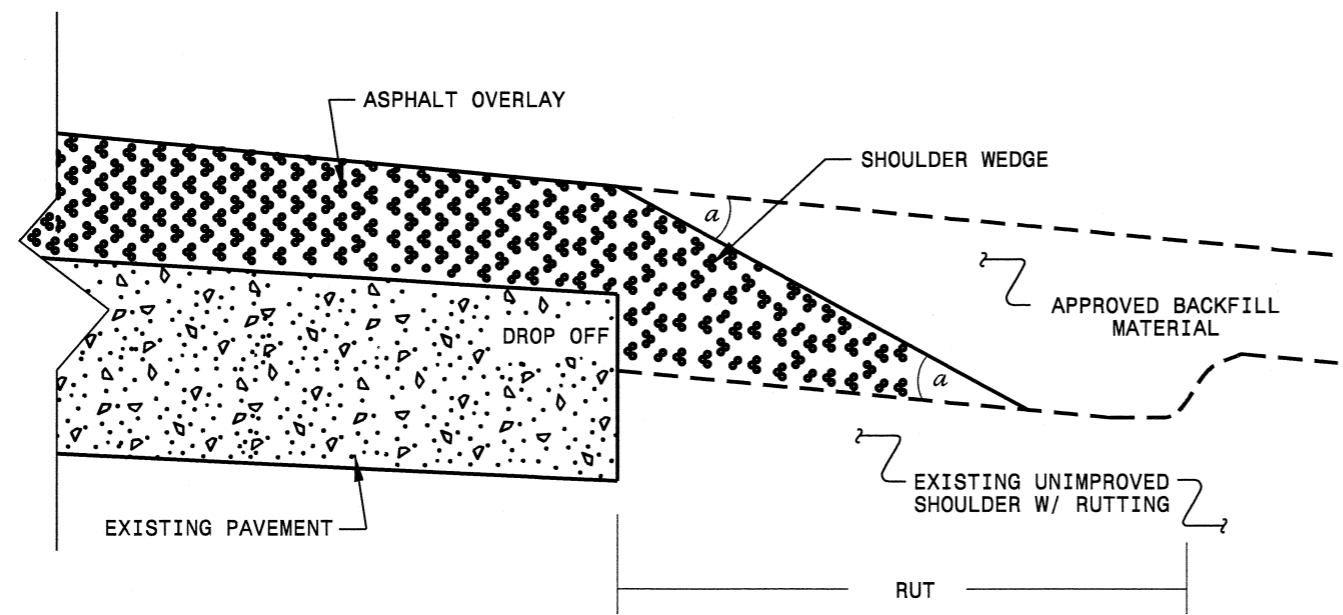
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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°

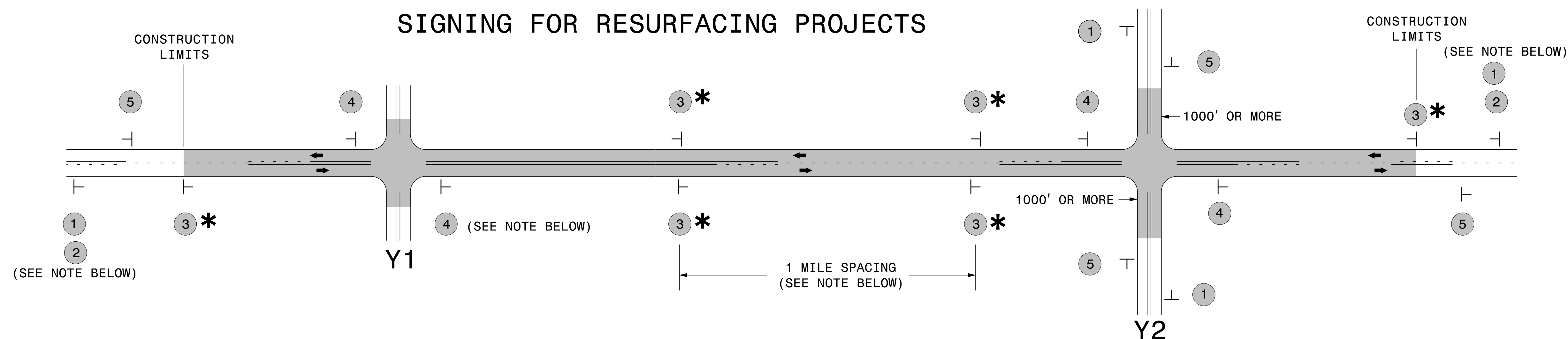
CONTRACT STANDARDS
 AND DEVELOPMENT UNIT
 Office 919-707-6950 FAX 919-250-4119

**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.



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