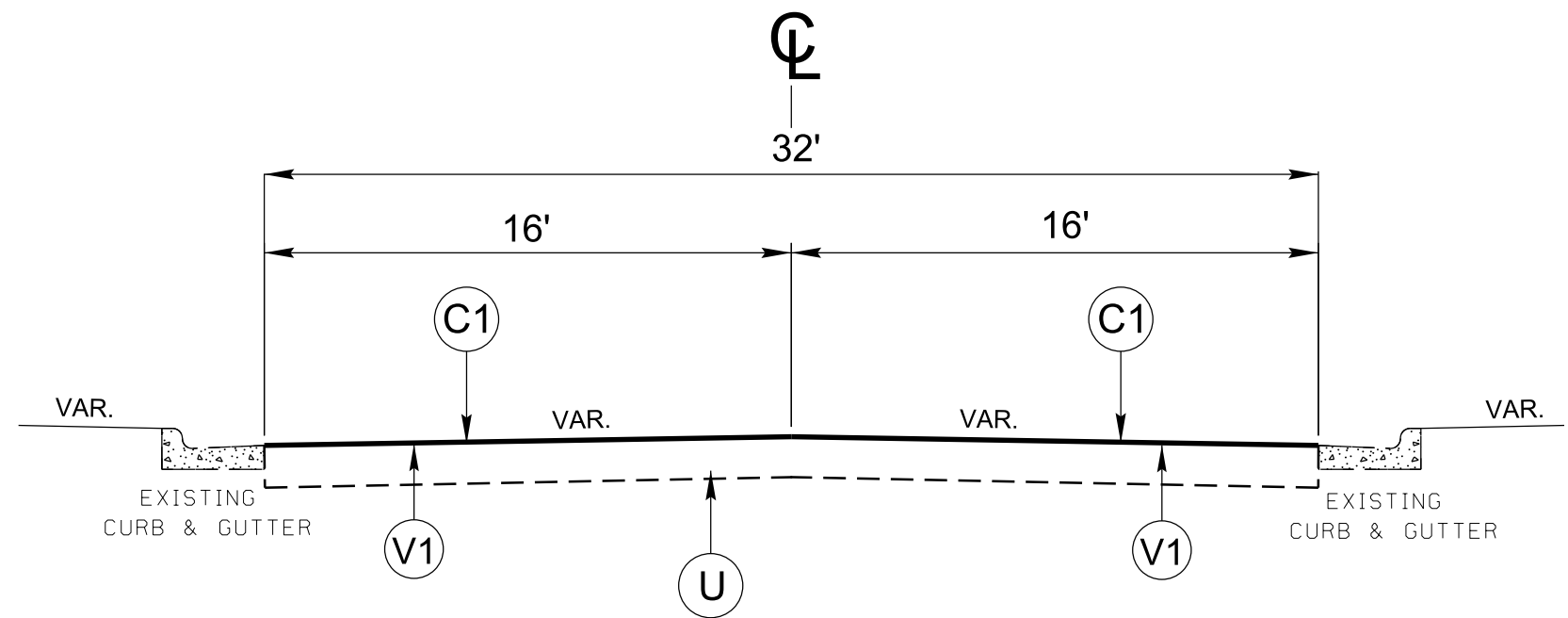


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 \$\$\$HISN\$\$\$

* "PATCHING EXISTING PAVEMENT" HAS BEEN INCLUDED AS A PAY ITEM ON MAPS. PATCHING MAY OR MAY NOT BE NEEDED DEPENDING ON CONDITION OF MAP SURFACE AT TIME THAT PAVING SEASON BEGINS. AREAS TO BE DELINIATED BY THE ENGINEER.

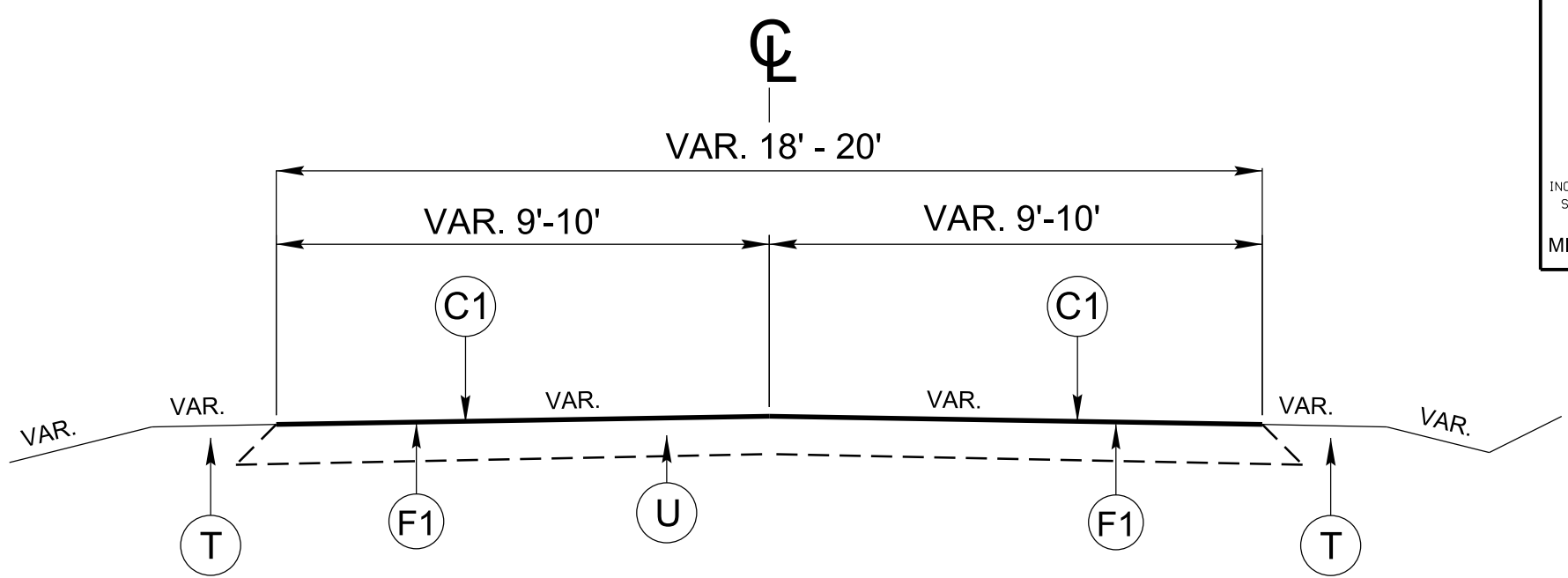
* INCIDENTAL MILLING AT LOCATIONS AS DIRECTED BY THE ENGINEER

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AN AVERAGE RATE OF 220 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
F1	ASPHALT SURFACE TREATMENT, MAT COAT WITH NO.78M STONE
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1½"
V2	INCIDENTAL MILLING (See Tie in Detail)



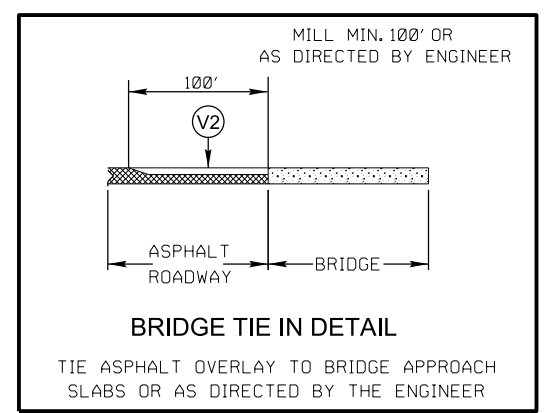
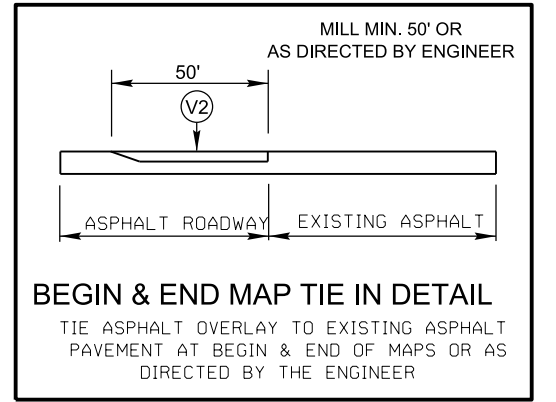
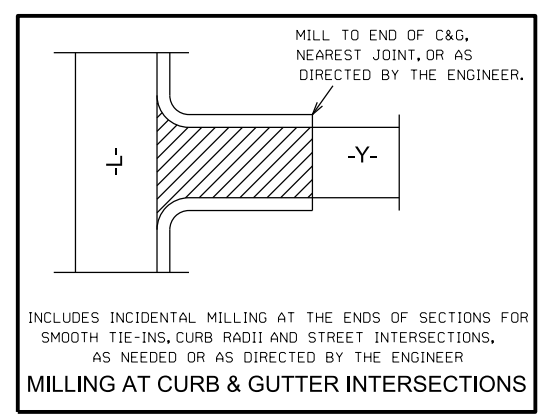
TYPICAL SECTION NO. 1

MAP 1 - SR 1106 FROM CENTRAL AVE (NS) TO NORTHERN LIMITS OF ROUNDABOUT



TYPICAL SECTION NO. 2

MAP 2 - SR 1115 FROM US 321 ALT TO SR 1122
 MAP 3 - SR 1167 FROM SR 1159 TO SR 1933
 MAP 10 - SR 1715 FROM SR 1712 TO SR 1809
 (Note: Milling of overlay on BR#95 is included as incidental in the contract.)

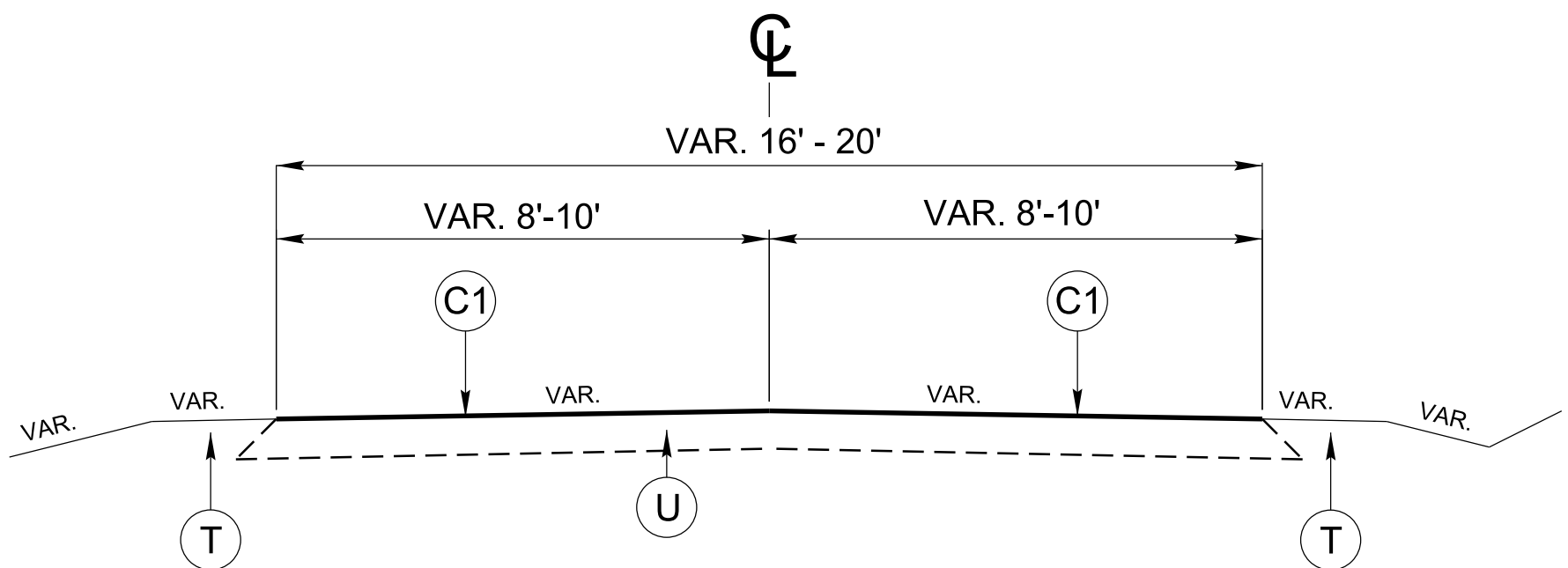


NOTE: TYPICALS ARE NOT TO SCALE

CALDWELL COUNTY SECONDARY ROADS 2024 ASPHALT RESURFACING														
<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS	INT.	DATE								
REVISIONS	INT.	DATE												
N.C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS DIVISION ELEVEN			<table border="1"> <tr> <td>SCALE: N/A</td> <td>DATE: 9/14/2023</td> </tr> <tr> <td>PREPARED BY: DLH</td> <td> </td> </tr> <tr> <td>REVIEWED BY: </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	SCALE: N/A	DATE: 9/14/2023	PREPARED BY: DLH		REVIEWED BY:						
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PREPARED BY: DLH														
REVIEWED BY:														

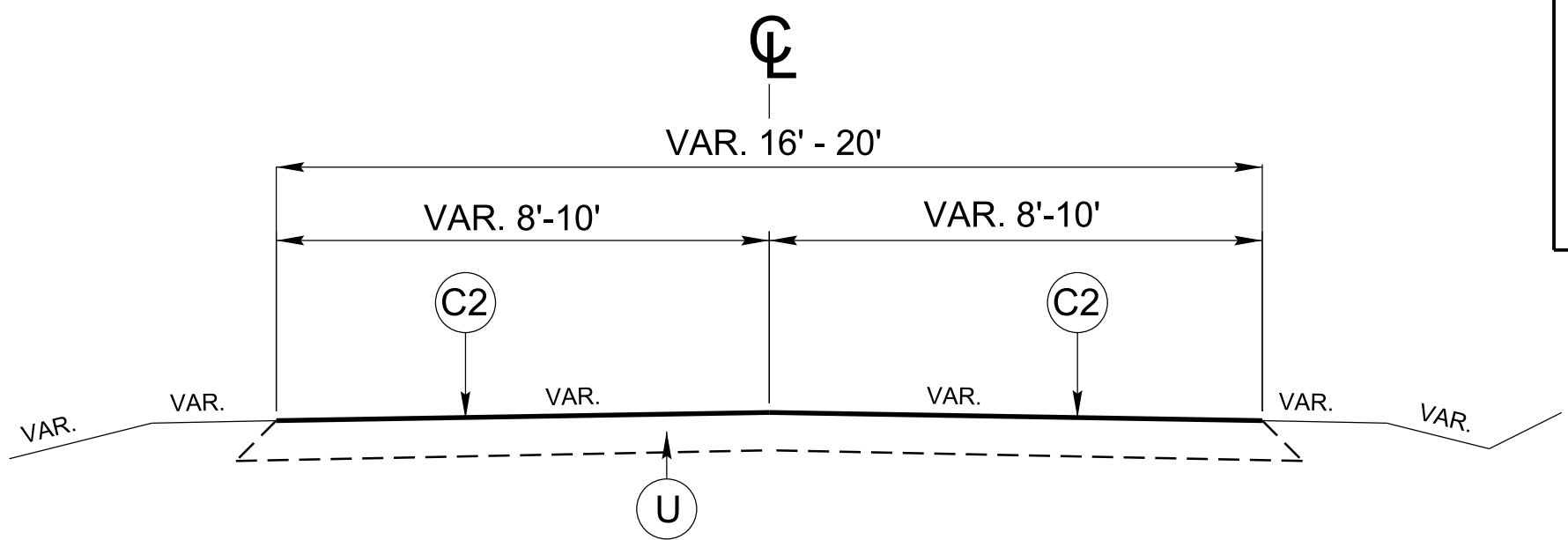
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* INCIDENTAL MILLING AT LOCATIONS AS DIRECTED BY THE ENGINEER
 ** LEVELING AT LOCATIONS AS DIRECTED BY ENGINEER THE ENGINEER



TYPICAL SECTION NO. 3

MAP 4 - SR 1310 FROM SR 1301 TO SR 1300
 (Note: Milling of overlay on BR#115 is included as incidental in the contract.)
 **MAP 7 - SR 1331 FROM SR 1325 TO SR 1332

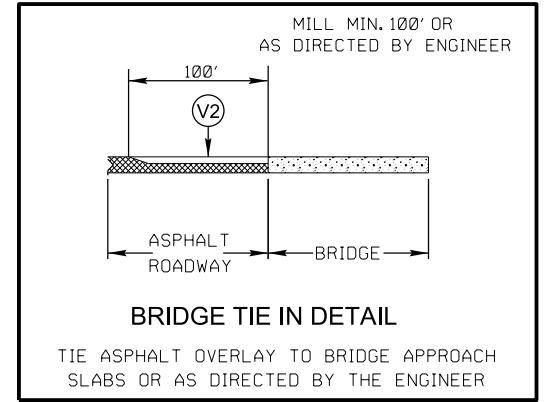
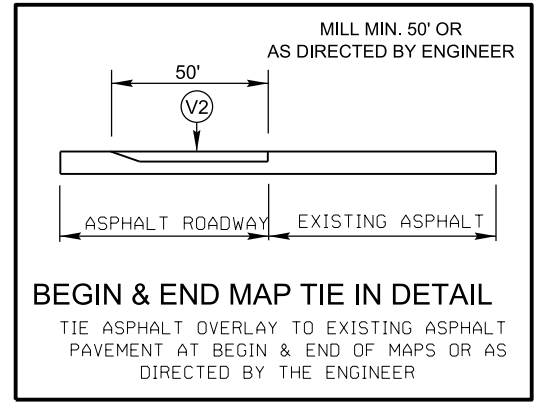
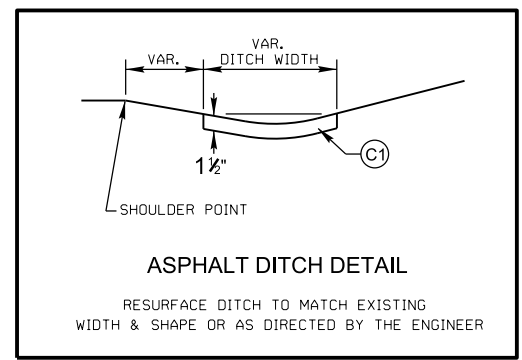


TYPICAL SECTION NO. 4

MAP 5 - SR 1313 FROM SR 1309 TO SR 1310
 MAP 6 - SR 1329 FROM BEGIN PVMT TO SR 1331
 MAP 8 - SR 1392 FROM SR 1310 TO EOM
 MAP 9 - SR 1417 FROM SR 1310 TO EOM

*** (Note: Asphalt Ditches may be present on any map. In such cases, the contractor is to clean ditches and refer to the corresponding detail for construction guidance as directed by the engineer.)

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AN AVERAGE RATE OF 220 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
F1	ASPHALT SURFACE TREATMENT, MAT COAT WITH NO.78M STONE
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1 1/2"
V2	INCIDENTAL MILLING (See Tie in Detail)



NOTE: TYPICALS ARE NOT TO SCALE

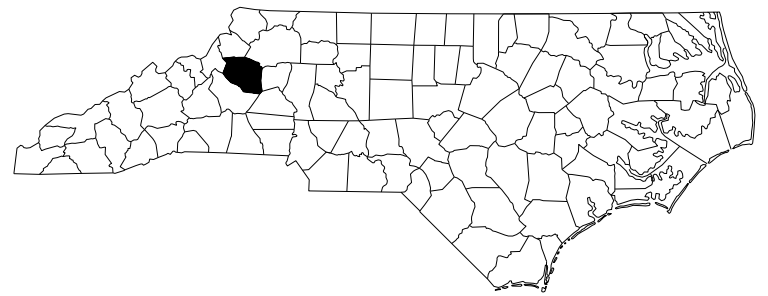
CALDWELL COUNTY SECONDARY ROADS 2024 ASPHALT RESURFACING														
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SCALE: N/A	DATE: 9/14/2023													
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\$\$\$\$\$USERNAME\$\$\$\$\$

CALDWELL COUNTY

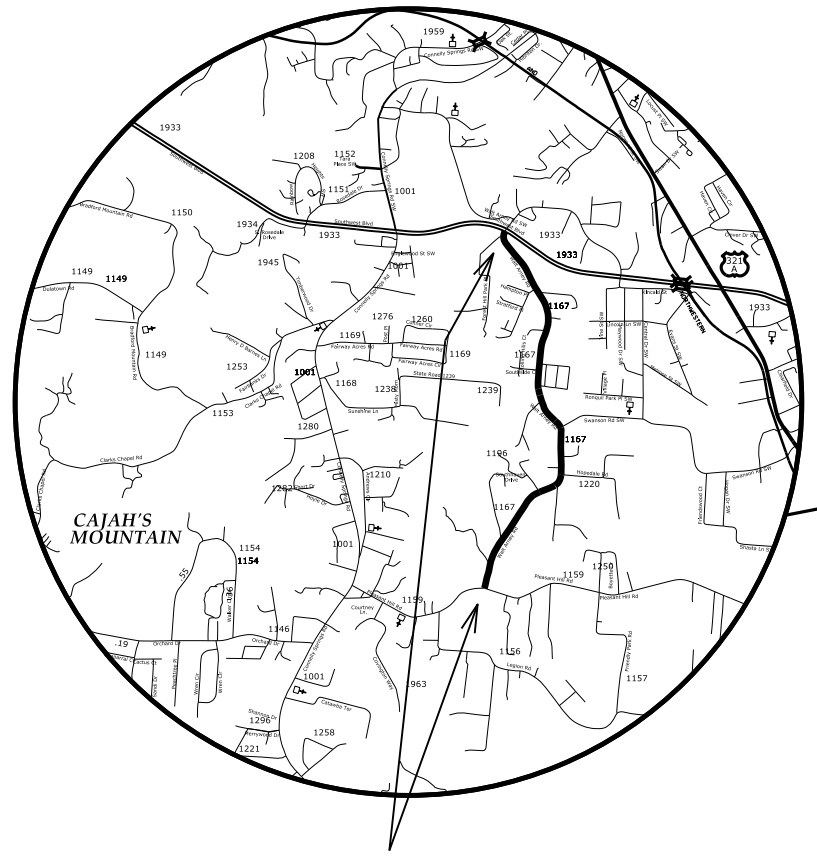
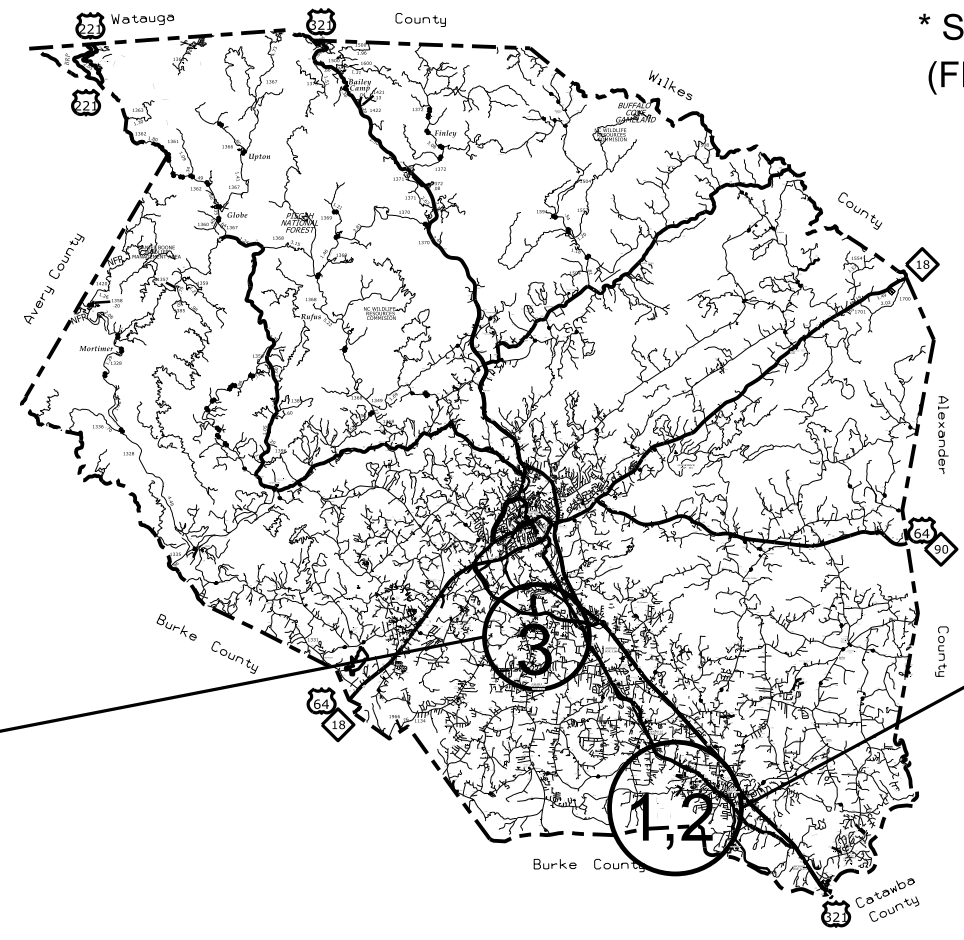
TYPE OF WORK: ASPHALT RESURFACING
MAPS # 1 THROUGH # 3

2024



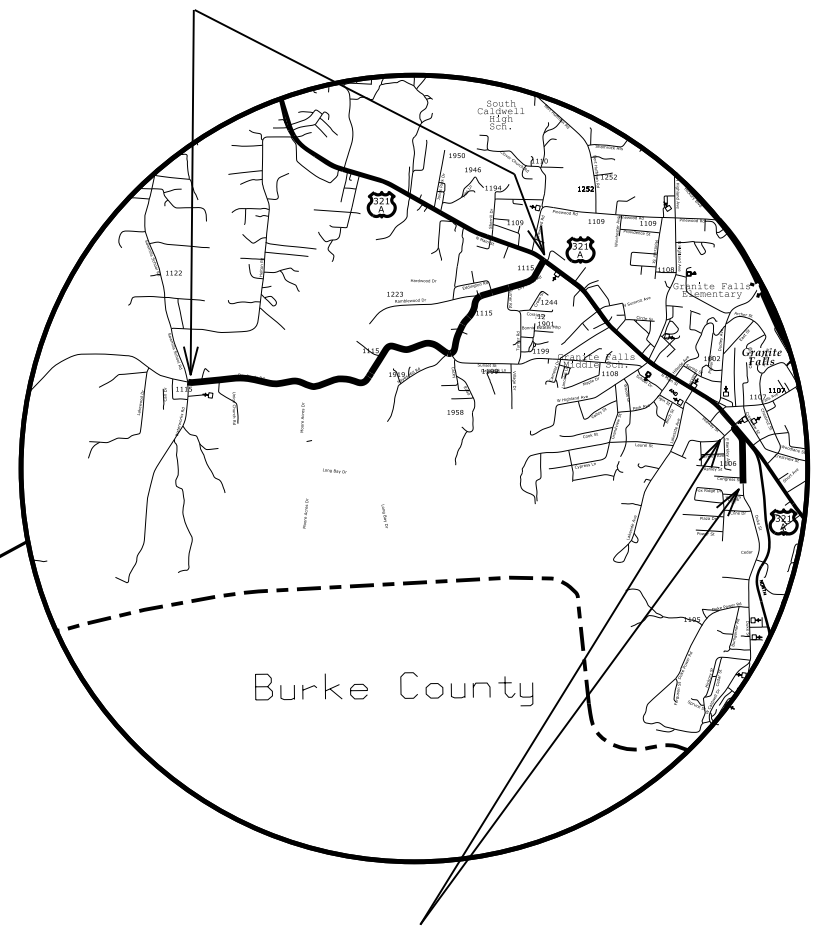
MAP #2

* SR 1115 - (2.18mi.)
(FROM US 321 ALT TO SR 1122)



MAP #3

* SR 1167 - (1.60mi.)
(FROM SR 1159 TO SR 1933)



MAP #1

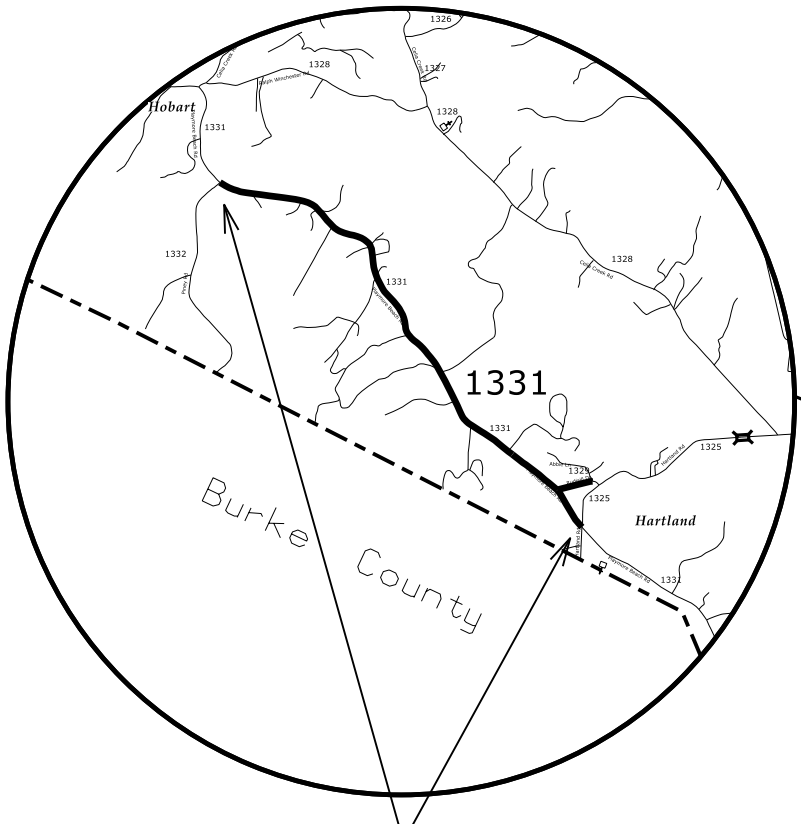
* SR 1106 - (0.28mi.)
(FROM CENTRAL AVE (NS) TO NORTHERN
LIMITS OF ROUNDABOUT)

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CALDWELL COUNTY

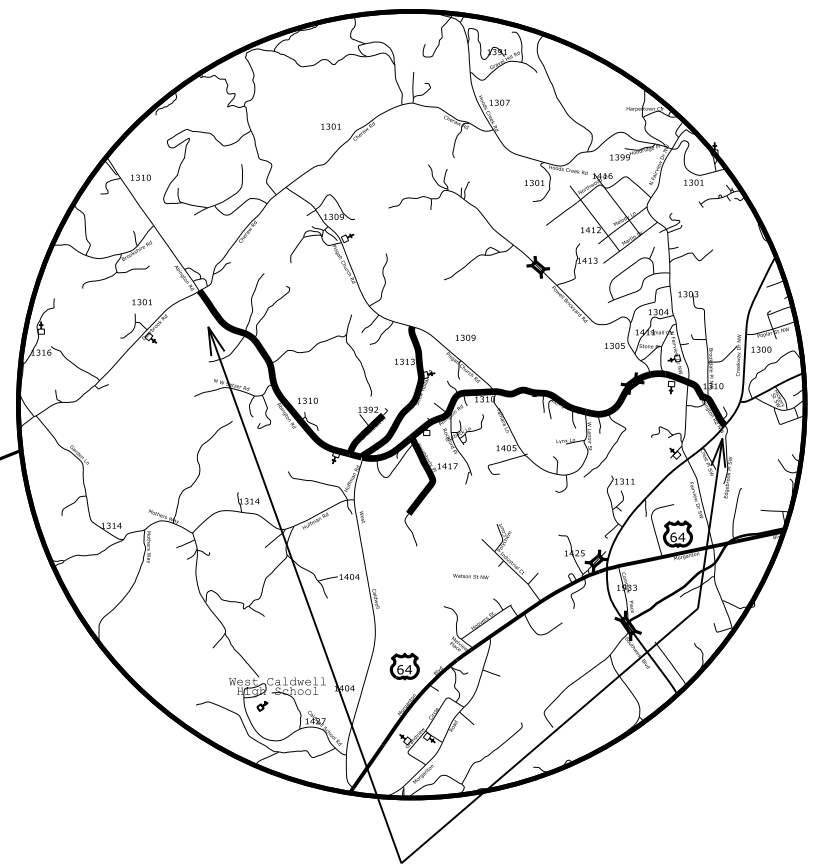
TYPE OF WORK: ASPHALT RESURFACING
MAPS # 4 THROUGH # 9

2024



MAPS #6 - #7

- * SR 1329 - (0.14mi.)
(FROM BEGIN PVMT TO SR 1331)
- * SR 1331 - (2.11mi.)
(FROM SR 1325 TO SR 1332)



MAPS #4, #5, #8, & #9

- * SR 1310 - (2.69mi.)
(FROM SR 1301 TO SR 1300)
- * SR 1313 - (0.61mi.)
(FROM SR 1309 TO SR 1310)
- * SR 1392 - (0.21mi.)
(FROM SR 1310 TO EOM)
- * SR 1417 - (0.35mi.)
(FROM SR 1310 TO EOM)

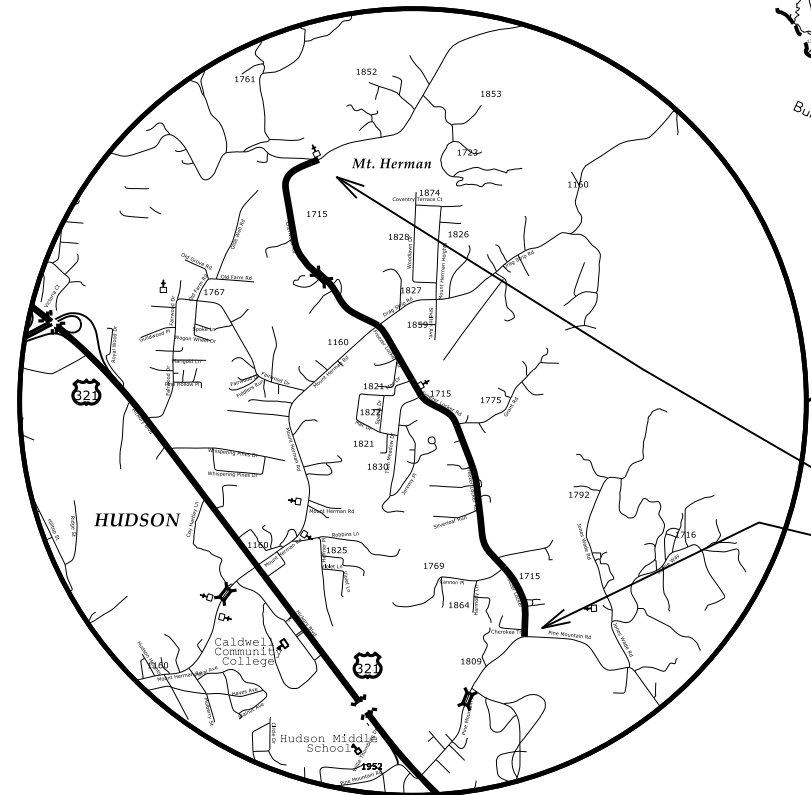
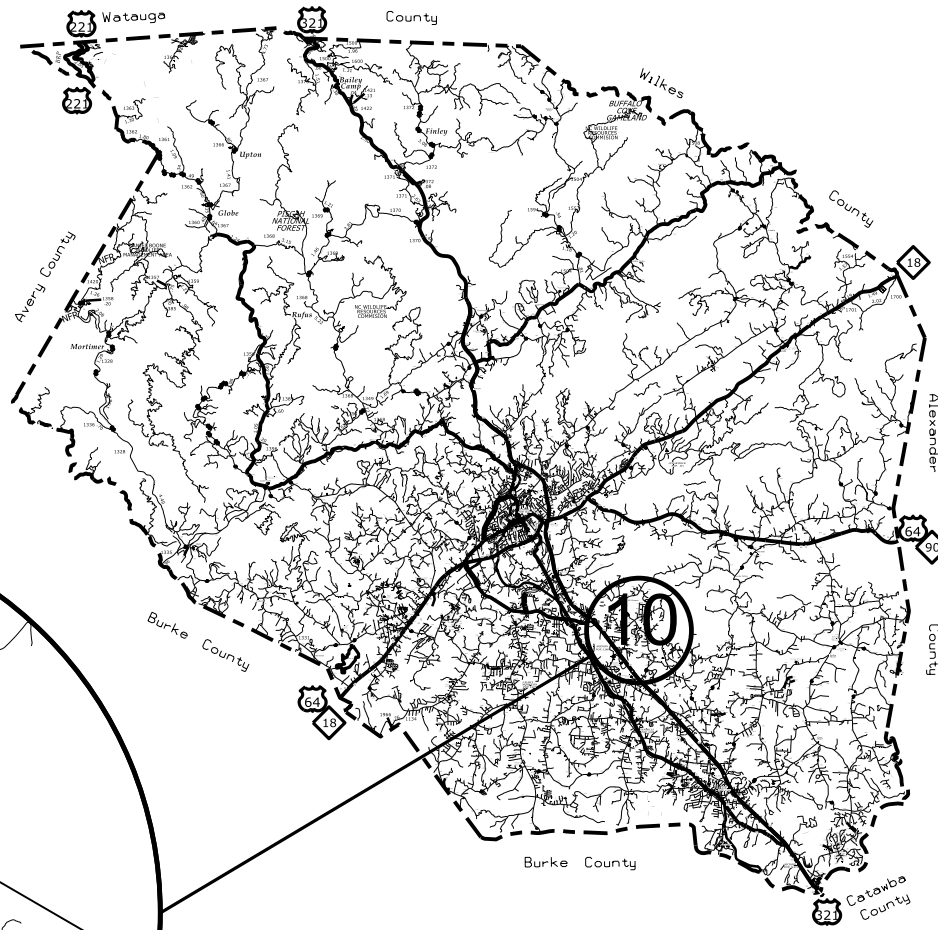
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PROJECT REFERENCE NO.	SHEET NO.
DK00372	05

CALDWELL COUNTY

TYPE OF WORK: ASPHALT RESURFACING
MAP # 10

2024



MAP #10

* SR 1715 - (2.31mi.)
(FROM SR 1712 TO SR 1809)

PROJECT NO.	SHEET NO.	TOTAL NO.
DK00372	6	9

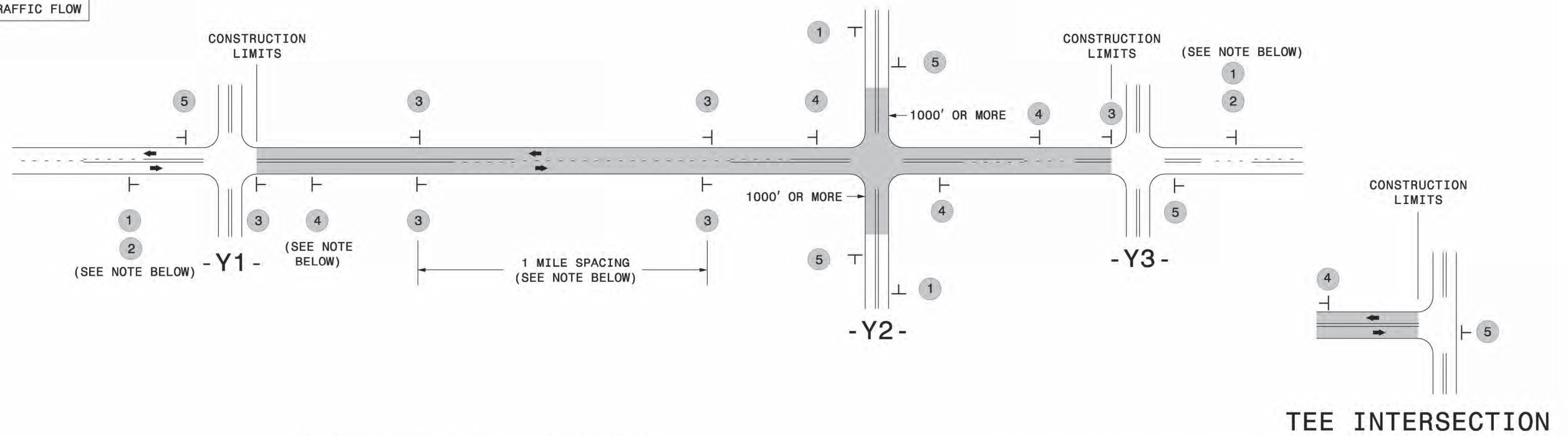
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	BEGIN MP	END MP	0106000000-E	1220000000-E	1245000000-E	1260000000-E	1297000000-E	1330000000-E	1519000000-E	1520000000-E	1575000000-E	1704000000-E	1775000000-E	1838000000-E	2473000000-N	2815000000-N	2830000000-N	2845000000-N	6084000000-E			
														BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	1 1/2" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	LEVELING COURSE, TYPE S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, MAT COAT #78	EMULSION FOR ASPHALT SURFACE TREATMENT	GENERIC DRAINAGE ITEM, ADJUST OVERSIZE MANHOLE	ADJUST DROP INLET	ADJUST MANHOLES	ADJUST METER OR VALVE BOX	SEED & MULCHING			
														MI	FT																		
														CY	TONS	SMI	TON	SY	SY	TONS	TON	TON	TONS	TONS	SY	GAL	EA	EA	EA	EA	AC		
2024CPT.11.02.20141	Caldwell	1	SR-1106 / DUKE ST	FROM CENTRAL AVE (NS) TO NORTHERN LIMITS OF ROUNDABOUT	1	2	2WU	NO	NO	0.28	32	0	0.28					5,800	356	479			31				2	12	12				
2024CPT.11.02.20141	Caldwell	2	SR-1115 / DRY PONDS RD	FROM US 321 ALT TO SR 1122	2	2	2WU	NO	NO	2.18	20	0	2.18	65	44	4.36	1,199		222	2,442		182	488	36,843	11,055			1	6	0.02			
2024CPT.11.02.20141	Caldwell	3	SR-1167 / WALT ARNEY RD/KINCAID CIR	FROM SR 1159 TO SR 1933	2	2	2WU	NO	NO	1.6	20	0	1.6	48	32	3.20	880		300	1,792		130	275	20,651	6,200			5		0.02			
2024CPT.11.02.20141	Caldwell	4	SR-1310 / ABINGTON RD	FROM SR 1301 TO SR 1300	3	2	2WU	NO	NO	2.69	20	4.48	7.17	81	54	5.38	1,480	222	1,100	3,013		218	463			1		3		0.03			
2024CPT.11.02.20141	Caldwell	5	SR-1313 / SHEW HOLLAR RD	FROM SR 1309 TO SR 1310	4	2	2WU	NO	NO	0.61	20	0	0.61		20				55	913		59											
2024CPT.11.02.20141	Caldwell	6	SR-1329 / RUDISILL DR	FROM BEGIN PVMT TO SR 1331	4	2	2WU	NO	NO	0.14	16	0.03	0.17		20					161		10											
2024CPT.11.02.20141	Caldwell	7	SR-1331 / PLAYMORE BEACH RD	FROM SR 1325 TO SR 1332	3	2	2WU	NO	NO	2.11	16	1.42	3.53	63	21	4.22	1,161		107	1,894	820	176								0.02			
2024CPT.11.02.20141	Caldwell	8	SR-1392 / SHEWCRAFT PL	FROM SR 1310 TO EOM	4	2	2WU	NO	NO	0.21	19	0	0.21		20				21	286		19											
2024CPT.11.02.20141	Caldwell	9	SR-1417 / NEIGHBORLY PL	FROM SR 1310 TO END MAINTENANCE	4	2	2WU	NO	NO	0.35	16	0	0.35		20				18	402		26											
2024CPT.11.02.20141	Caldwell	10	SR-1715 / FREEZER LOCKER RD/ELLERWOOD RD	FROM SR 1712 TO SR 1809	2	2	2WU	NO	NO	2.31	18	0	2.31	69	46	4.62	1,271	240	600	2,330		168	353	26,833	8,050					0.02			
TOTAL FOR PROJ NO. 2024CPT.11.02.20141										12.48		5.93	18.41	326	277	21.78	5,991	6,262	2,779	13,712	820	1,019	1,579	84,327	25,305	1	2	16	23	0.11			
GRAND TOTAL										12.48		5.93	18.41	326	277	21.78	5,991	6,262	2,779	13,712	820	1,019	1,579	84,327	25,305	1	2	16	23	0.11			

													PROJECT NO.	SHEET NO.	TOTAL NO.							
													DK00372	7	9							
THERMOPLASTIC AND PAINT QUANTITIES																						
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E	4457000000-N	4685000000-E		4695000000-E	4704000000-E	4709000000-E	4720000000-E	4725000000-E	4905100000-N	
								MI	FT			ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M YELLOW THERMO	4" X 90 M WHITE THERMO	8" X 90 M YELLOW THERMO	THERMOPLASTIC PAVEMENT MARKING LINES (16", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	THERMO RXR 90 M	THERMO LT ARROW 90 M	NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER	
2024CPT.11.02.20141	Caldwell	1	SR-1106 / DUKE ST	FROM CENTRAL AVE (NS) TO NORTHERN LIMITS OF ROUNDABOUT	1	2	2WU	0.28	32	0	0.28	36	0.03	3,013								
2024CPT.11.02.20141	Caldwell	2	SR-1115 / DRY PONDS RD	FROM US 321 ALT TO SR 1122	2	2	2WU	2.18	20	0	2.18	283	0.18	23,457	23,457	75	52	30	2	2		
2024CPT.11.02.20141	Caldwell	3	SR-1167 / WALT ARNEY RD/KINCAID CIR	FROM SR 1159 TO SR 1933	2	2	2WU	1.6	20	0	1.6	208	0.13	17,216	17,216							
2024CPT.11.02.20141	Caldwell	4	SR-1310 / ABINGTON RD	FROM SR 1301 TO SR 1300	3	2	2WU	2.69	20	4.48	7.17	350	0.21	28,944	28,944							178
2024CPT.11.02.20141	Caldwell	5	SR-1313 / SHEW HOLLAR RD	FROM SR 1309 TO SR 1310	4	2	2WU	0.61	20	0	0.61	79	0.06	6,564	6,564							
2024CPT.11.02.20141	Caldwell	6	SR-1329 / RUDISILL DR	FROM BEGIN PVMT TO SR 1331	4	2	2WU	0.14	16	0.03	0.17	18	0.01									
2024CPT.11.02.20141	Caldwell	7	SR-1331 / PLAYMORE BEACH RD	FROM SR 1325 TO SR 1332	3	2	2WU	2.11	16	1.42	3.53	274	0.17	22,704	22,704							
2024CPT.11.02.20141	Caldwell	8	SR-1392 / SHEWCRAFT PL	FROM SR 1310 TO EOM	4	2	2WU	0.21	19	0	0.21	27	0.02									
2024CPT.11.02.20141	Caldwell	9	SR-1417 / NEIGHBORLY PL	FROM SR 1310 TO END MAINTENANCE	4	2	2WU	0.35	16	0	0.35	46	0.03									
2024CPT.11.02.20141	Caldwell	10	SR-1715 / FREEZER LOCKER RD/ELLERWOOD RD	FROM SR 1712 TO SR 1809	2	2	2WU	2.31	18	0	2.31	300	0.16	24,856	24,856			40				152
TOTAL FOR PROJ NO. 2024CPT.11.02.20141								12.48		5.93	18.41	1,621	1,000	126,754	123,741	75	52	70	2	2		330
GRAND TOTAL								12.48		5.93	18.41	1,621	1,000	126,754	123,741	75	52	70	2	2		330

SIGNING FOR RESURFACING PROJECTS

LEGEND
 ┆ STATIONARY SIGN
 ← DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

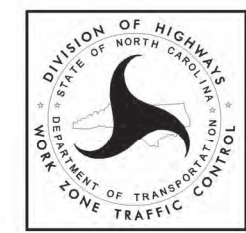
-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1		PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING 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;"> PLACED 500' IN ADVANCE OF FLAGGER. </div> <div style="text-align: center;"> PLACED 250' IN ADVANCE OF FLAGGER. </div> </div>
	2		#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	3		- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.	
	4		- 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. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.	
	5		PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

MAPS LESS THAN 2 MILES

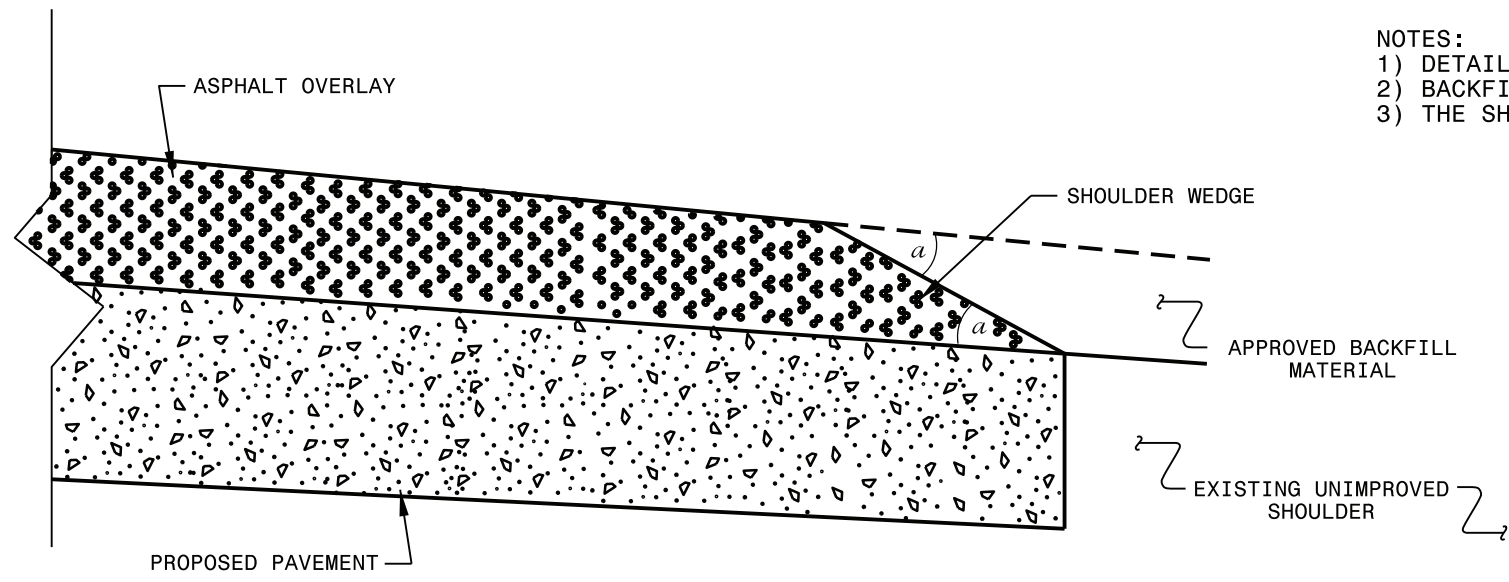
FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.



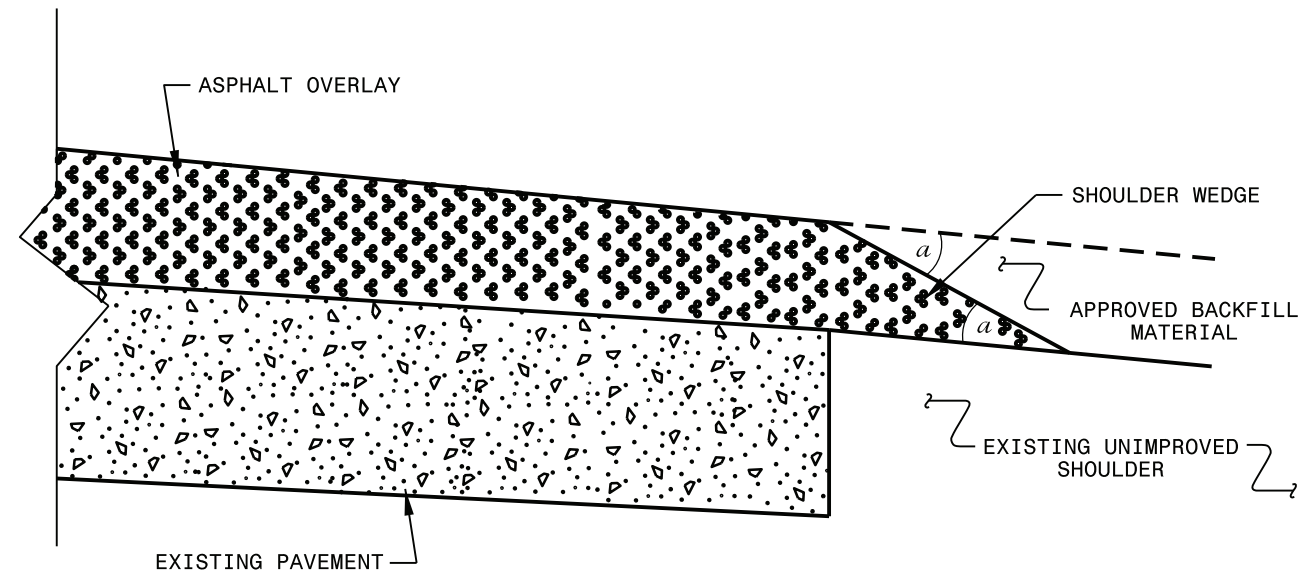
ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING

5/15/2017 5:11:00 PM WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn User:keads

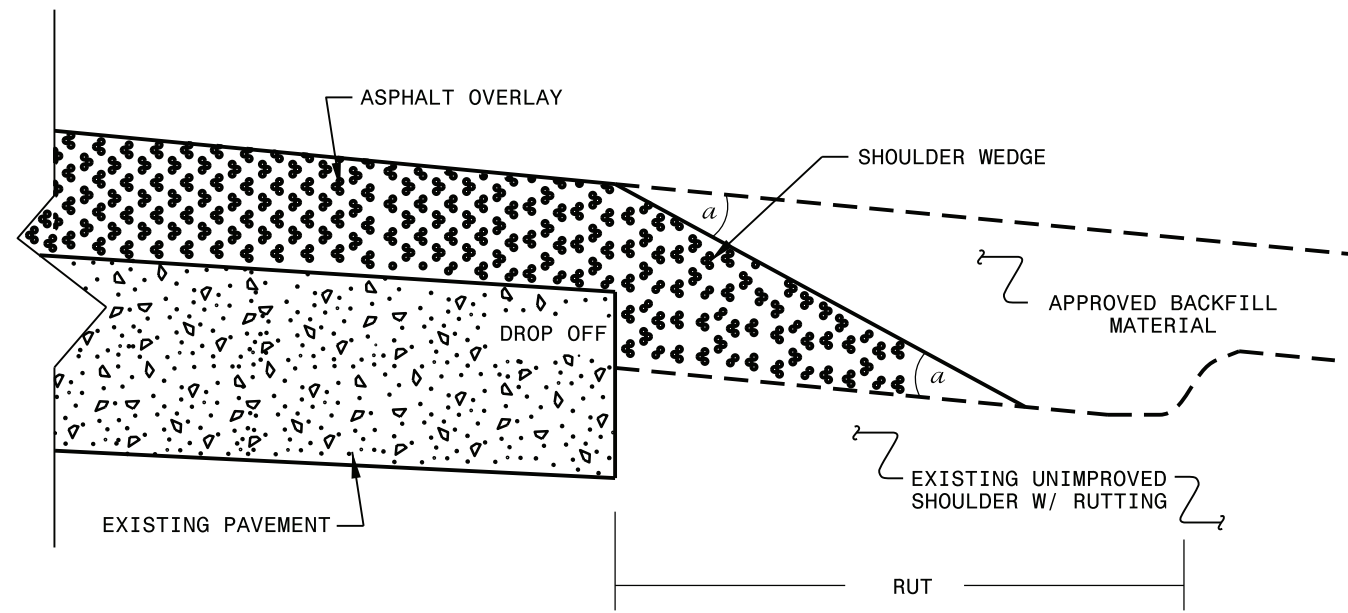
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFc AND ULTRA-THIN BONDED WEARING COURSE.
 - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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.: susr/details/stand/shoulderwedgedetail.dgn	

SYSTEMS DESIGN
 USER NAME