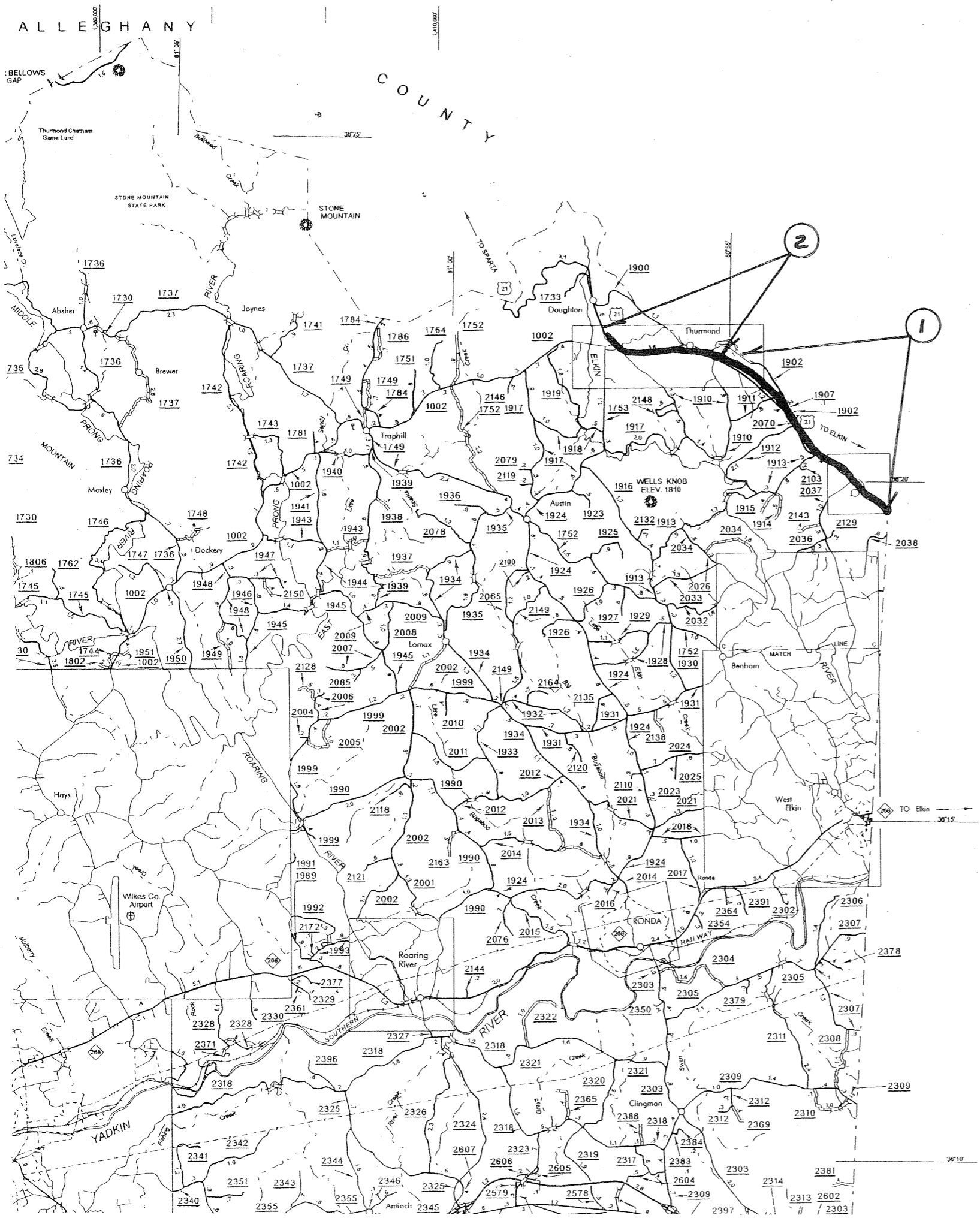
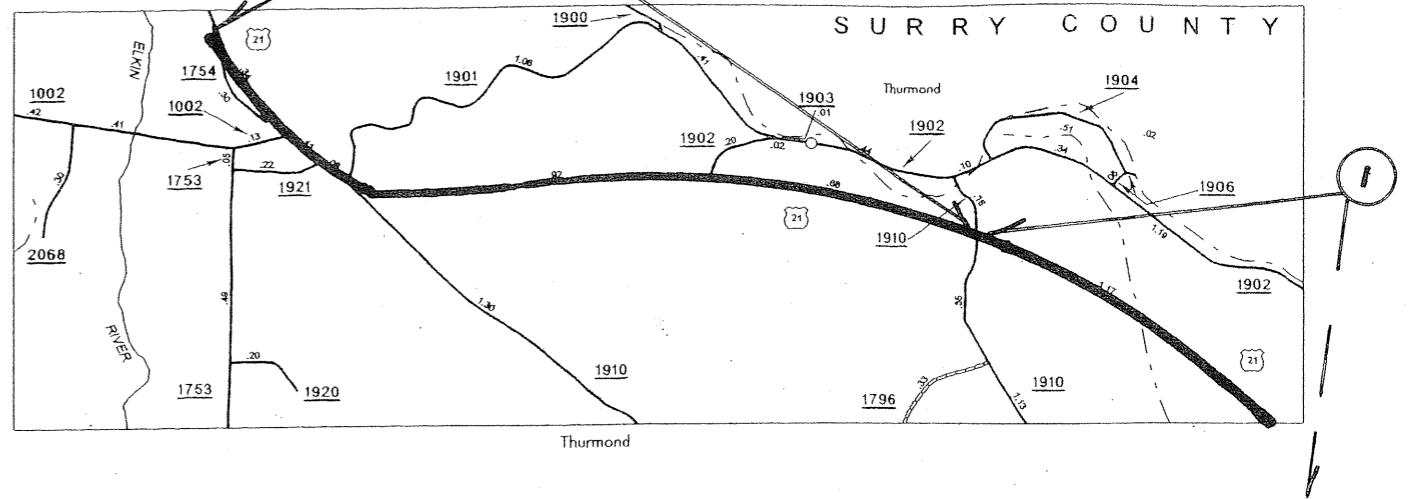


ALLEGHANY

COUNTY



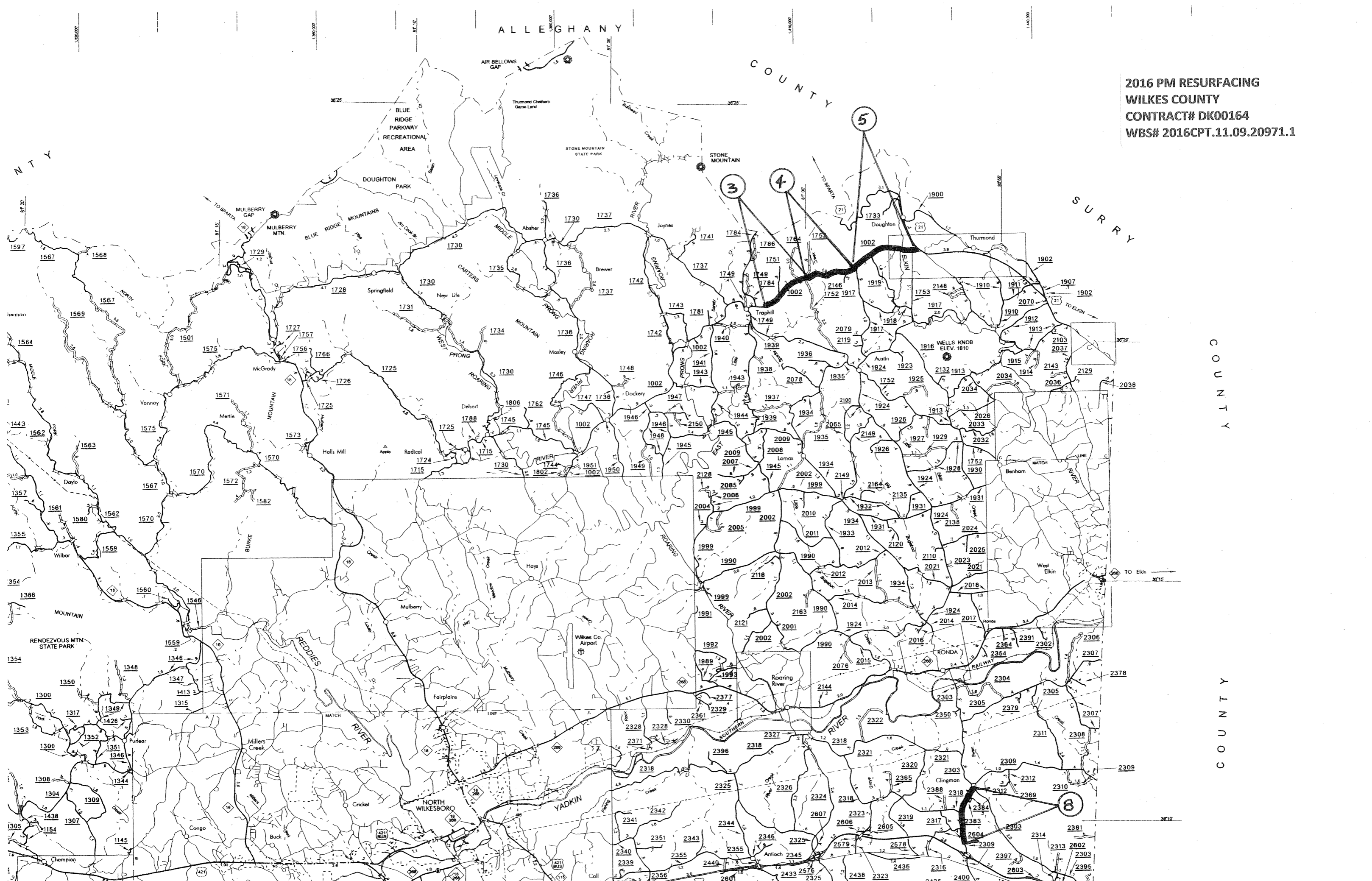
**2016 PM RESURFACING
 WILKES COUNTY
 CONTRACT# DK00164
 WBS# 2016CPT.11.09.10971.2**



COUNTY

COUNTY

2016 PM RESURFACING
WILKES COUNTY
CONTRACT# DK00164
WBS# 2016CPT.11.09.20971.1



ALLEGHANY

COUNTY

SURRY

COUNTY

COUNTY

3

4

5

8

AIR BELLOWS GAP

BLUE RIDGE PARKWAY RECREATIONAL AREA

STONE MOUNTAIN STATE PARK

STONE MOUNTAIN

MULBERRY GAP

MULBERRY MTN.

BLUE RIDGE MOUNTAINS

DOUGHTON PARK

MIDDLE RIVER

Absher

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

1730

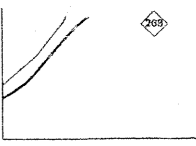
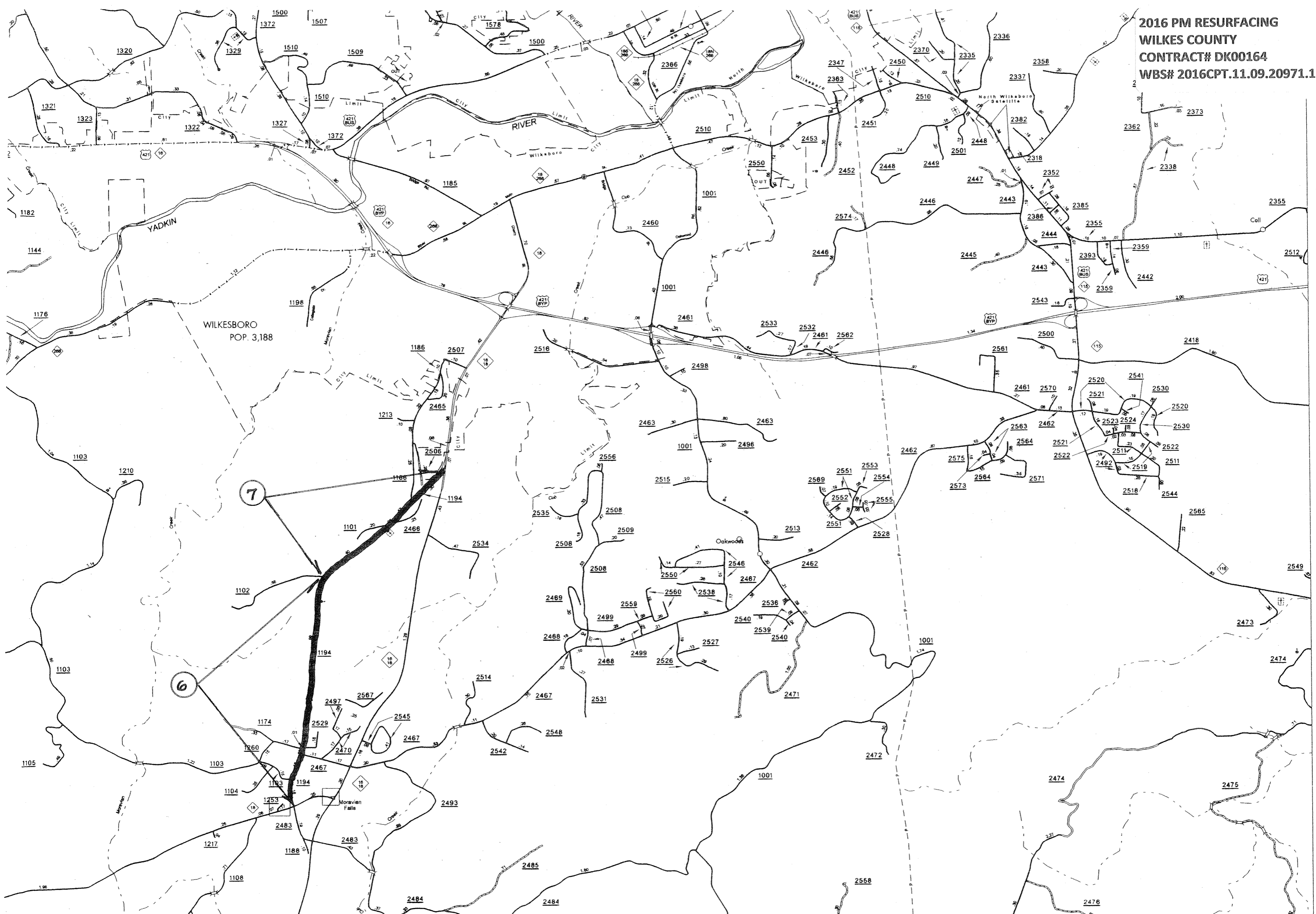
1730

1730

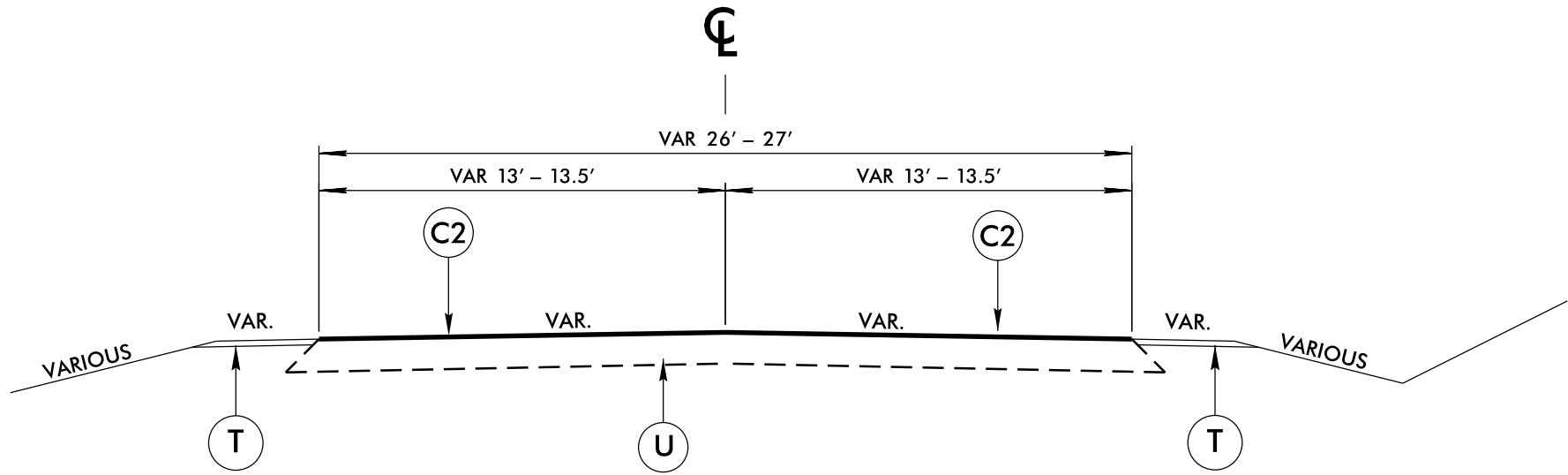
1730

1730

2016 PM RESURFACING
WILKES COUNTY
CONTRACT# DK00164
WBS# 2016CPT.11.09.20971.1



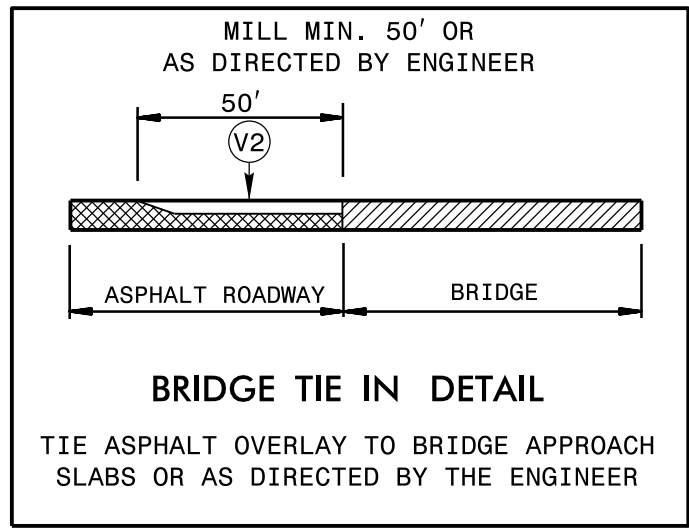
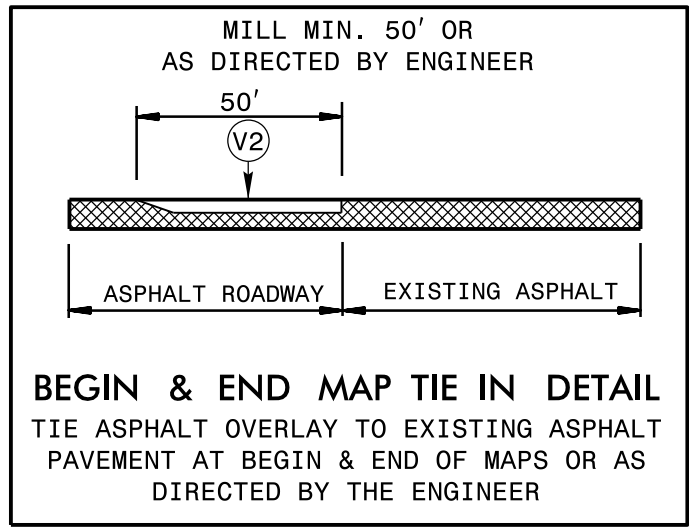
NO



TYPICAL SECTION NO. 1

MAP 1 - US 21 FROM SURRY CO TO SR 1910 +0.31 MILES
 MAP 2 - US 21 FROM SR 1910 +0.31 MILES TO SR 1002 +0.58 MILES

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	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 0" - 1½"
V2	INCIDENTAL MILLING



**WILKES COUNTY
PRIMARY & SECONDARY
RESURFACING**

DIVISION II

REVISIONS	INT.	DATE

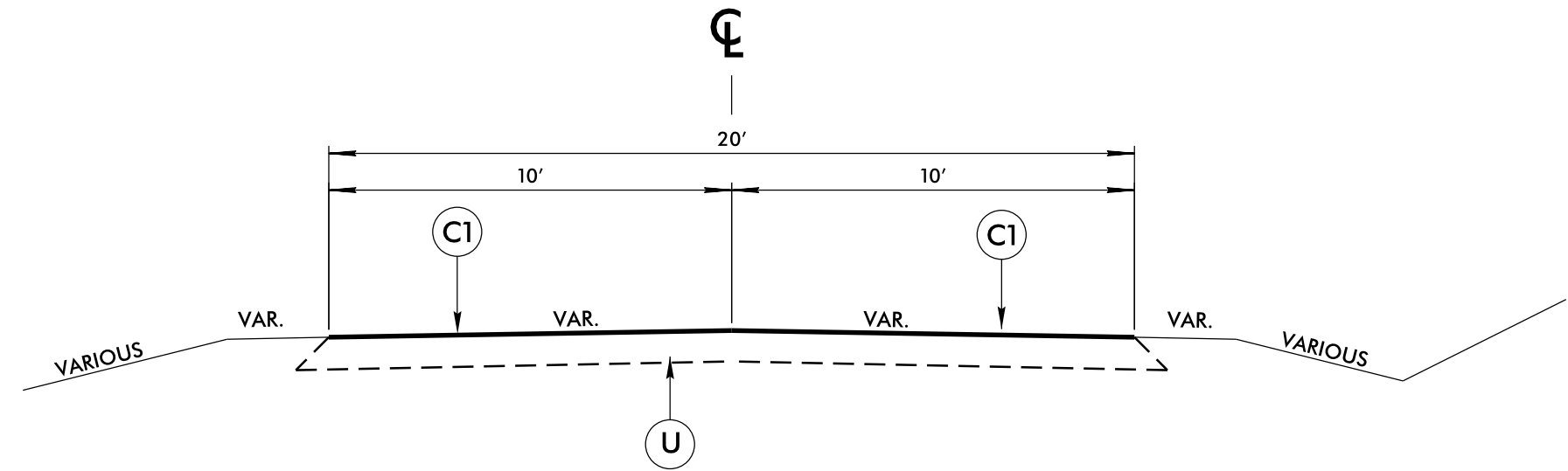
**N.C. DEPARTMENT of TRANSPORTATION
DIVISION of HIGHWAYS
DIVISION ELEVEN**

SCALE: N/A DATE: 06/2015

PREPARED BY: J. L. LAWS

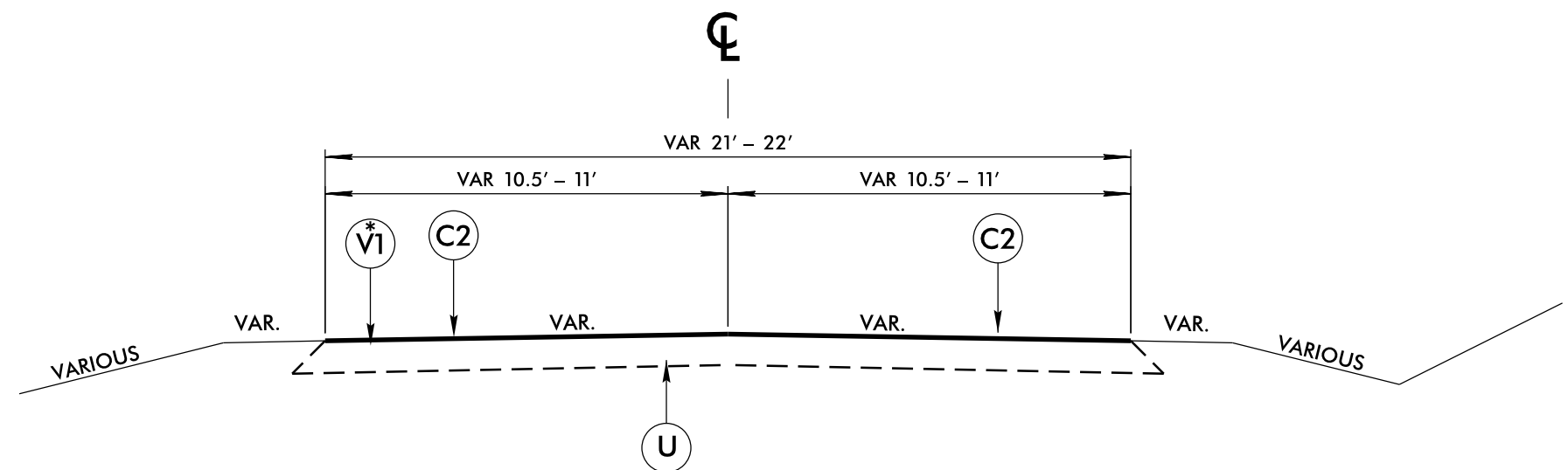
REVIEWED BY: _____

REVIEWED BY: _____



TYPICAL SECTION NO. 2

MAP 3 - SR 1002 FROM SR 1749 + 0.10 MILES TO SR 1752
 MAP 4 - SR 1002 FROM SR 1752 TO SR 1917
 MAP 5 - SR 1002 FROM SR 1917 TO US 21



TYPICAL SECTION NO. 3

MAP 6 - SR 1194 FROM NC 18 TO SR 1102*
 MAP 7 - SR 1194 FROM SR 1102 TO NC 16
 MAP 8 - SR 2309 FROM OLD US 421 TO SR 2303**

*Mill under Bridge

**Mill 0" - 1 1/2" 350' at Beginning of Map 8

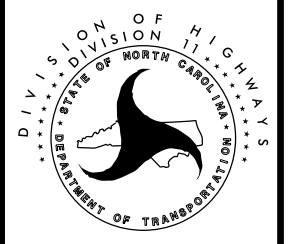
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 0" - 1 1/2"
V2	INCIDENTAL MILLING

**WILKES COUNTY
PRIMARY & SECONDARY
RESURFACING**

DIVISION II

REVISIONS	INT.	DATE

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



SCALE: N/A DATE: 06/2015
 PREPARED BY: J. L. LAWS
 REVIEWED BY:
 REVIEWED BY:

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.11.09.10971.2		
2016CPT.11.09.20971.1		

SUMMARY OF QUANTITIES

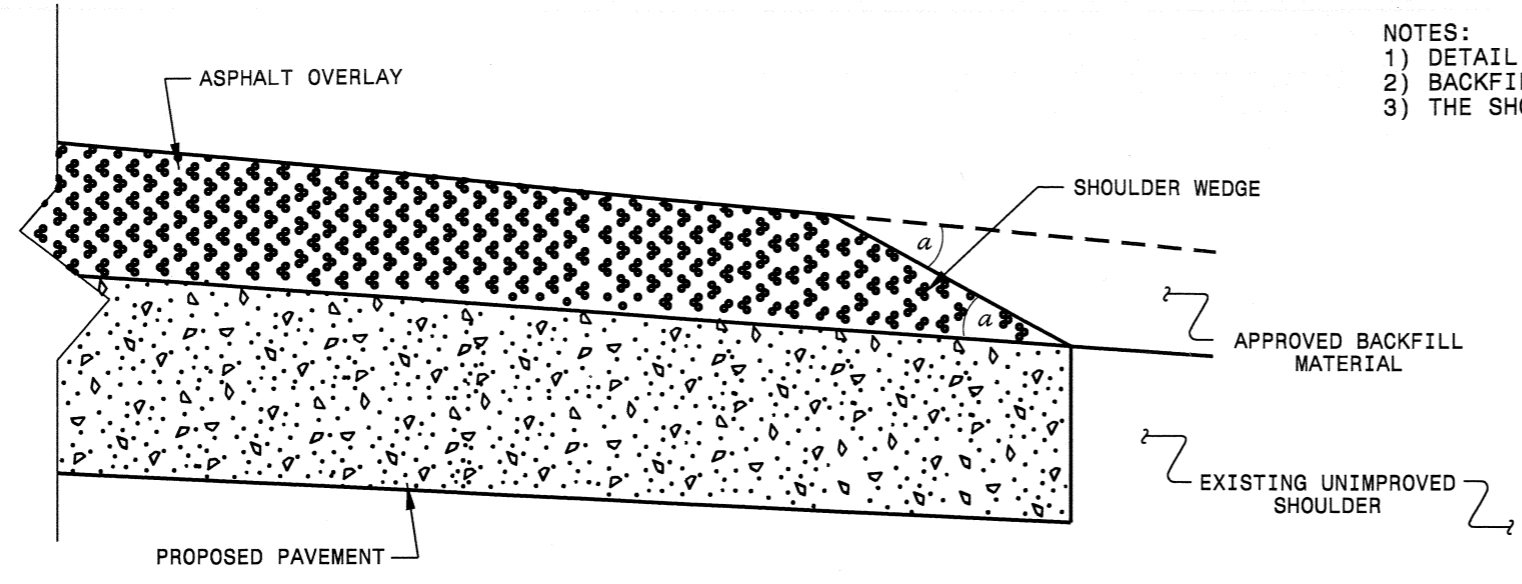
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARMMX ASPHALT REQUIRED	LENGTH M	WIDTH FT	BORROW EXCAVATION CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SM	0" TO 1 1/2" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MX TONS	ADI. 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 SAWCUT LF	LEAD-IN CABLE (14-2) LF
2016CPT.11.09.10971.2	Wilkes	1	US 21	FROM SURRY CO TO SR 1910 + 0.31 MILES	2	2	2WU	NO	NO	2	26	400	100	4.00		300	3,032		182		1.94					
2016CPT.11.09.10971.2	Wilkes	2	US 21	FROM SR 1910 + 0.31 MILES TO SR 1002 + 0.58 MILES	2	2	2WU	NO	NO	2	27	400	100	4.00		150	3,341		200		1.94					
TOTAL FOR PROJ NO. 2016CPT.11.09.10971.2										4		800	200	8.00		450	6,373		382		3.88					
2016CPT.11.09.20971.1	Wilkes	3	SR 1002	FROM SR 1749 + 0.10 TO SR 1752	1	2	2WU	NO	NO	1.69	20		75			122		1,851	124							
2016CPT.11.09.20971.1	Wilkes	4	SR 1002	FROM SR 1752 TO SR 1917	1	2	2WU	NO	NO	1.3	20		75					1,366	92							
2016CPT.11.09.20971.1	Wilkes	5	SR 1002	FROM SR 1917 TO US 21	1	2	2WD	NO	NO	1.64	20		75			111		1,657	111							
2016CPT.11.09.20971.1	Wilkes	6	SR 1194	FROM NC 18 TO SR 1102	2	2	2WD	NO	NO	1.36	22		75		100	450	1,687		101	2		25.00	50.00	1.00	280.00	50.00
2016CPT.11.09.20971.1	Wilkes	7	SR 1194	FROM SR 1102 TO NC 16	2	2	2WU	NO	NO	0.89	22		75			200	1,120		67	1						
2016CPT.11.09.20971.1	Wilkes	8	SR 2309	FROM OLD US 421 TO SR 2303	2	2	2WU	NO	NO	2.02	21		75		1,500	2,300	2,843		171							
TOTAL FOR PROJ NO. 2016CPT.11.09.20971.1										8.9			450		1,600	3,183	5,650	4,874	666	3		25.00	50.00	1.00	280.00	50.00
GRAND TOTAL										12.9		800	650	8.00	1,600	3,633	12,023	4,874	1,048	3	3.88	25.00	50.00	1.00	280.00	50.00

PROJECT NO.	SHEET NO.	TOTAL NO.
2016CPT.11.09.10971.2		
2016CPT.11.09.20971.1		

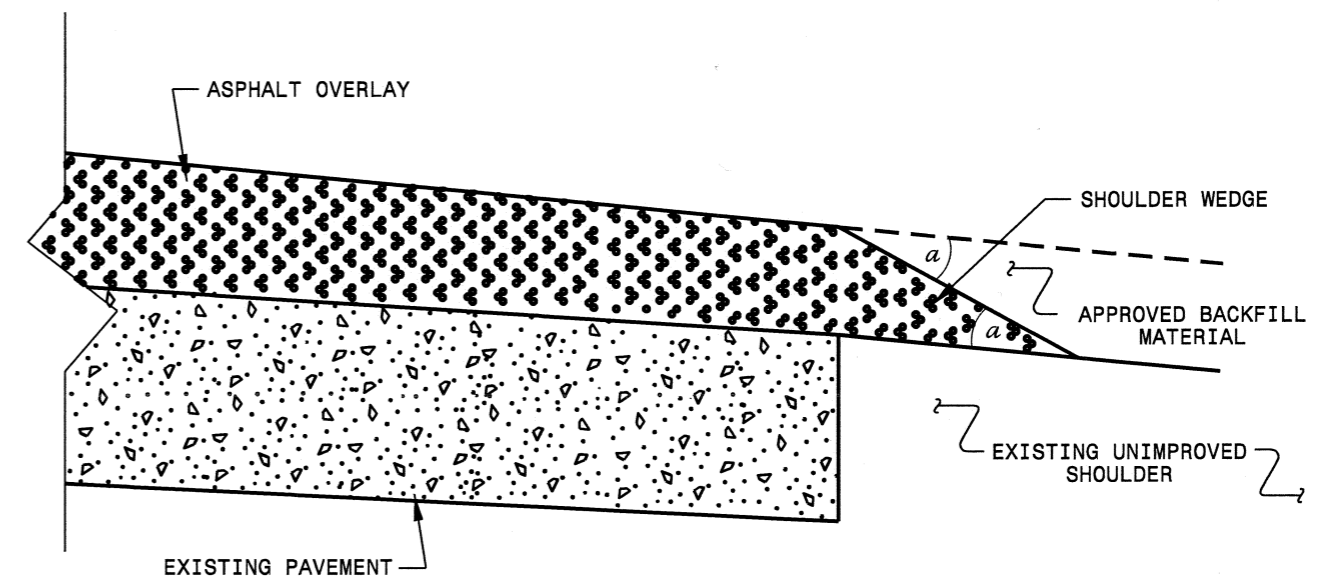
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4810000000-E		4820000000-E			4835000000-E	4840000000-N			4845000000-N			4900000000-N	4905000000-N
										WORK ZONE ADVANCE/GENERAL WARNING SIGNS SF	TEMPORARY TRAFFIC CONTROL LS	4" WHITE PAINT LF	4" YELLOW PAINT LF	8" YELLOW PAINT LF	8" WHITE PAINT LF	24" WHITE PAINT LF	PAINT M&G SCHOOL EA	PAINT M&G STOP EA	PAINT M&G AHEAD EA	PAINT RT ARROW EA	PAINT LT ARROW EA	PAINT STR & RT ARROW EA	YELLOW & YELLOW MARKERS EA	SNOW PLOWABLE MARKERS EA	
2016CPT.11.09.10971.2	Wilkes	1	US 21	FROM SURRY CO TO SR 1910 + 0.31 MILES	2	2	2WU	2	26	248	1	43,040	42,240	350		100				2	10		32	132	
2016CPT.11.09.10971.2	Wilkes	2	US 21	FROM SR 1910 + 0.31 MILES TO SR 1002 + 0.58 MILES	2	2	2WU	2	27	176	*	44,500	48,000	400		44				4	6		42	132	
TOTAL FOR PROJ NO. 2016CPT.11.09.10971.2								4		424		87,540	90,240	750		144				6	16		74	264	
										177,780		750						22							
2016CPT.11.09.20971.1	Wilkes	3	SR 1002	FROM SR 1749 + 0.10 TO SR 1752	1	2	2WU	1.69	20	176	*	36,369	35,596							2				112	
2016CPT.11.09.20971.1	Wilkes	4	SR 1002	FROM SR 1752 TO SR 1917	1	2	2WU	1.3	20	112	*	27,976	27,456											86	
2016CPT.11.09.20971.1	Wilkes	5	SR 1002	FROM SR 1917 TO US 21	1	2	2WD	1.64	20	144	*	35,293	34,636											109	
2016CPT.11.09.20971.1	Wilkes	6	SR 1194	FROM NC 18 TO SR 1102	2	2	2WD	1.36	22	248	*	29,267	30,325	400	400	450	48				4	4	30		
2016CPT.11.09.20971.1	Wilkes	7	SR 1194	FROM SR 1102 TO NC 16	2	2	2WU	0.89	22	80	*	19,500	18,900												
2016CPT.11.09.20971.1	Wilkes	8	SR 2309	FROM OLD US 421 TO SR 2303	2	2	2WU	2.02	21	304	*	43,470	42,724	1,500		115	8	10	8	20		64	135		
TOTAL FOR PROJ NO. 2016CPT.11.09.20971.1								8.9		1,064		191,875	189,637	1,900	400	565	48	8	10	10	24	4	94	442	
										381,512		2,300						66			38				
GRAND TOTAL								12.9		1,488	1	279,415	279,877	2,650	400	709	48	8	10	16	40	4	168	706	
										559,292		3,050						66			60				

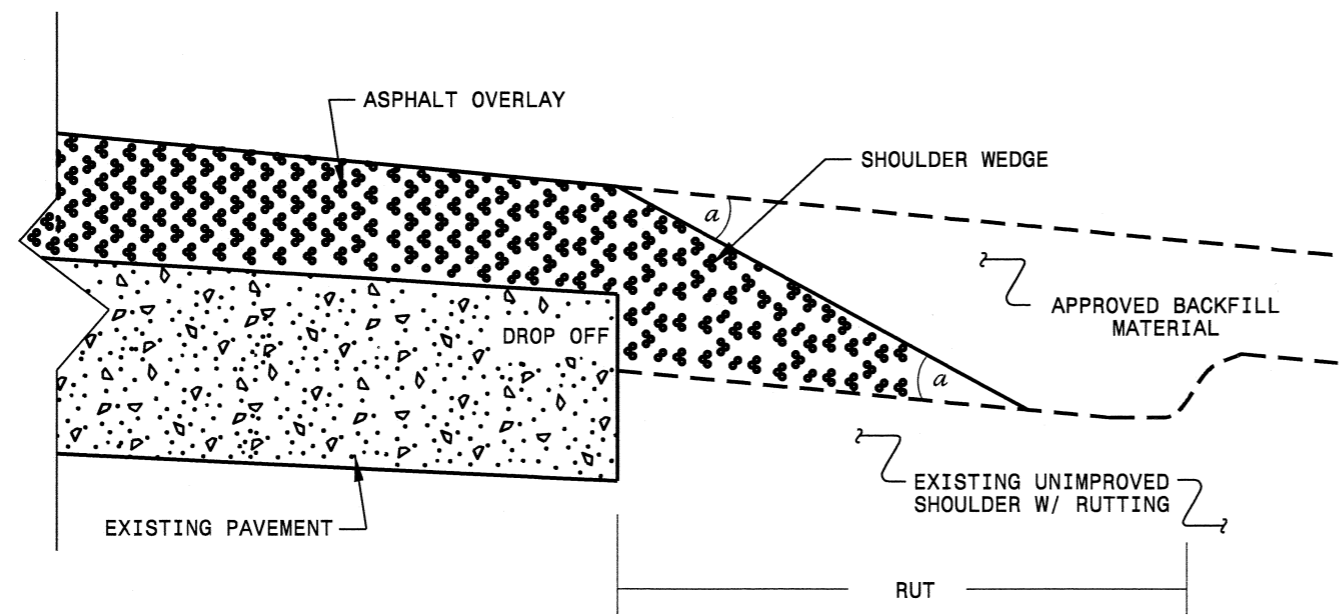
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ Widening or
 with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



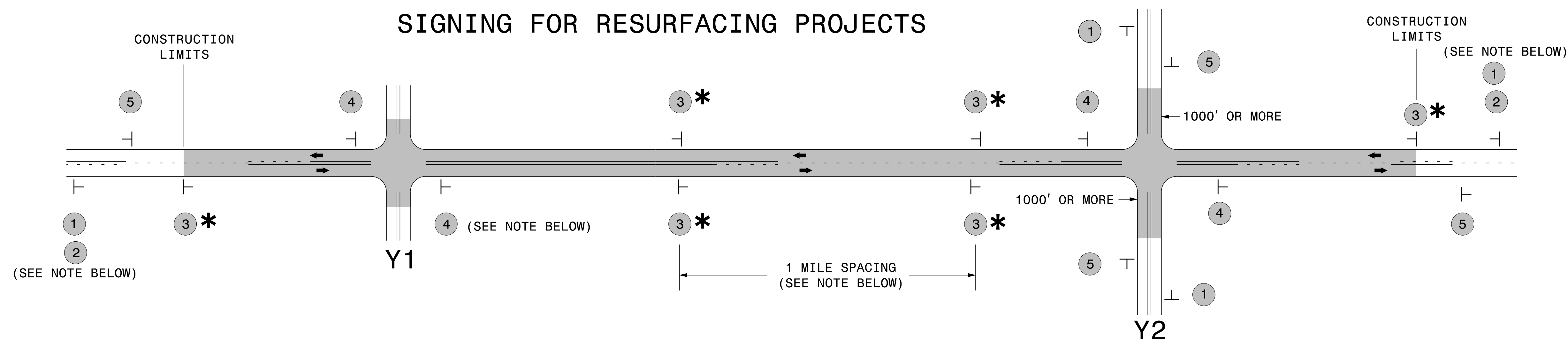
SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- 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
 11/15/12

SIGNING FOR RESURFACING PROJECTS



LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	1	 <small>W20-1 48" X 48"</small>	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p>	<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, ADVANCE WARNING PORTABLE 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;"> <small>W20-1 48" X 48"</small> </div> <div style="text-align: center;"> <small>W20-7 A 48" X 48"</small> </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 <small>W7-3aP 24" X 18"</small>	<p>#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)</p>	
	3 *	 <small>SP 13107 48" X 48"</small>	<p>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.</p>	
	4	 <small>SP 13106 48" X 48"</small>	<p>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.</p>	
5	 <small>G20-2 A 48" X 24"</small>	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.</p>		

* 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

6/3/2014 S:\T\U\WZTC\Apps\WorkZoneGeneral\ExternalWebPage\DesRes\Resurfacing\Resurfacing_AdvWarn_2Ln.dgn User:rmgarr ett