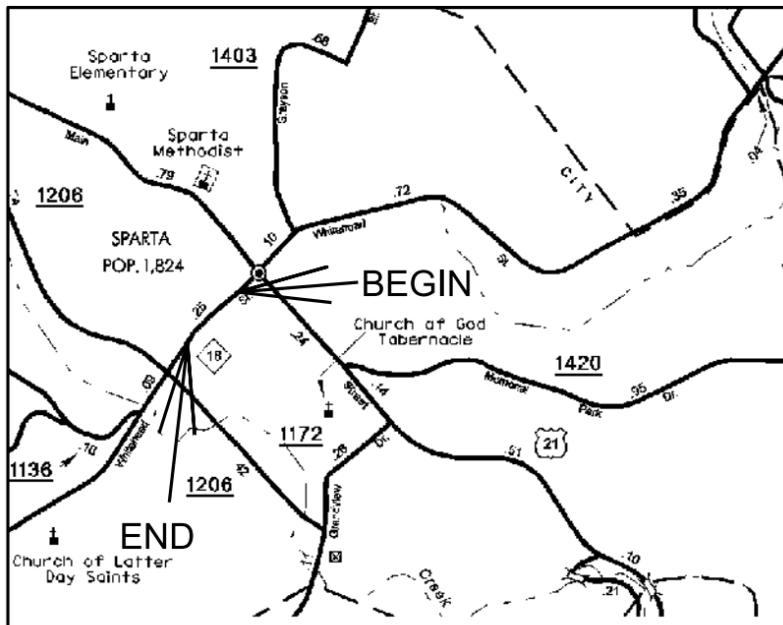


STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
ALLEGHANY COUNTY

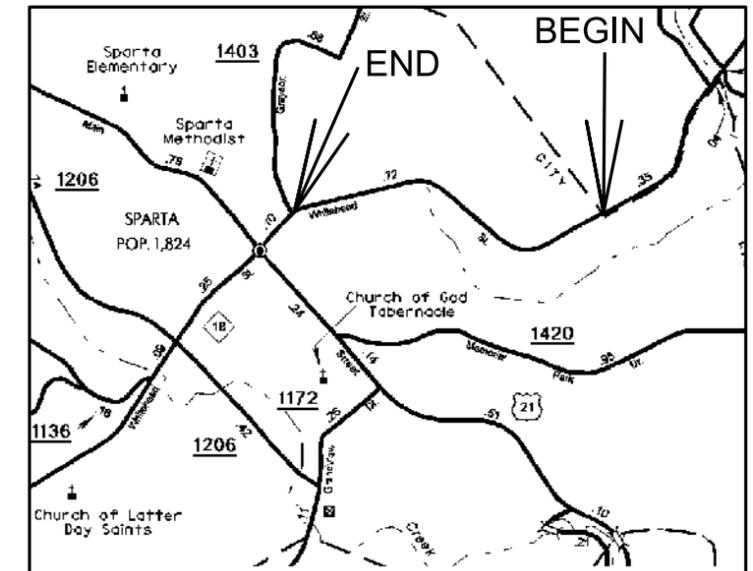
2015

PRIMARY & SECONDARY ASPHALT RESURFACING



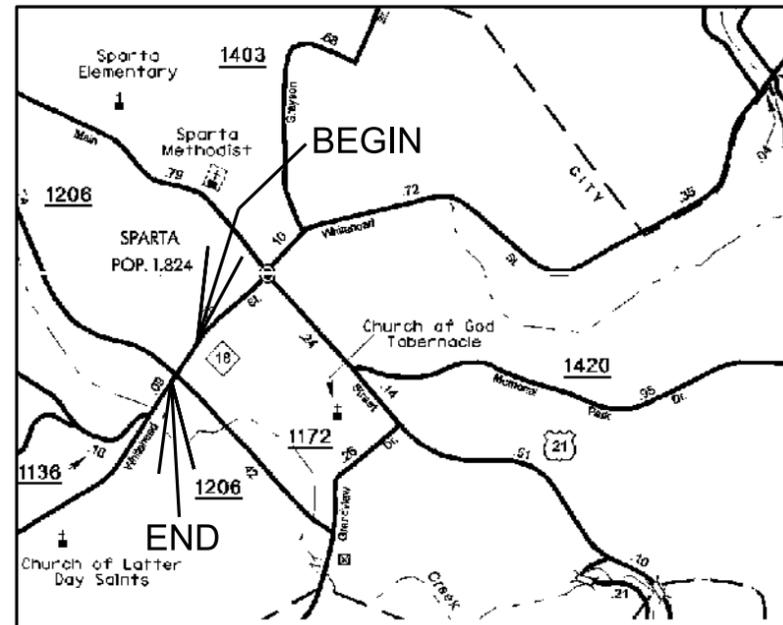
MAP #3

Route = NC 18
 BEGIN at End of Sidewalk
 END at Begin Turn Lane
 Type = S9.5B - (Mill/Fill 1 1/2" to Duncan Street)



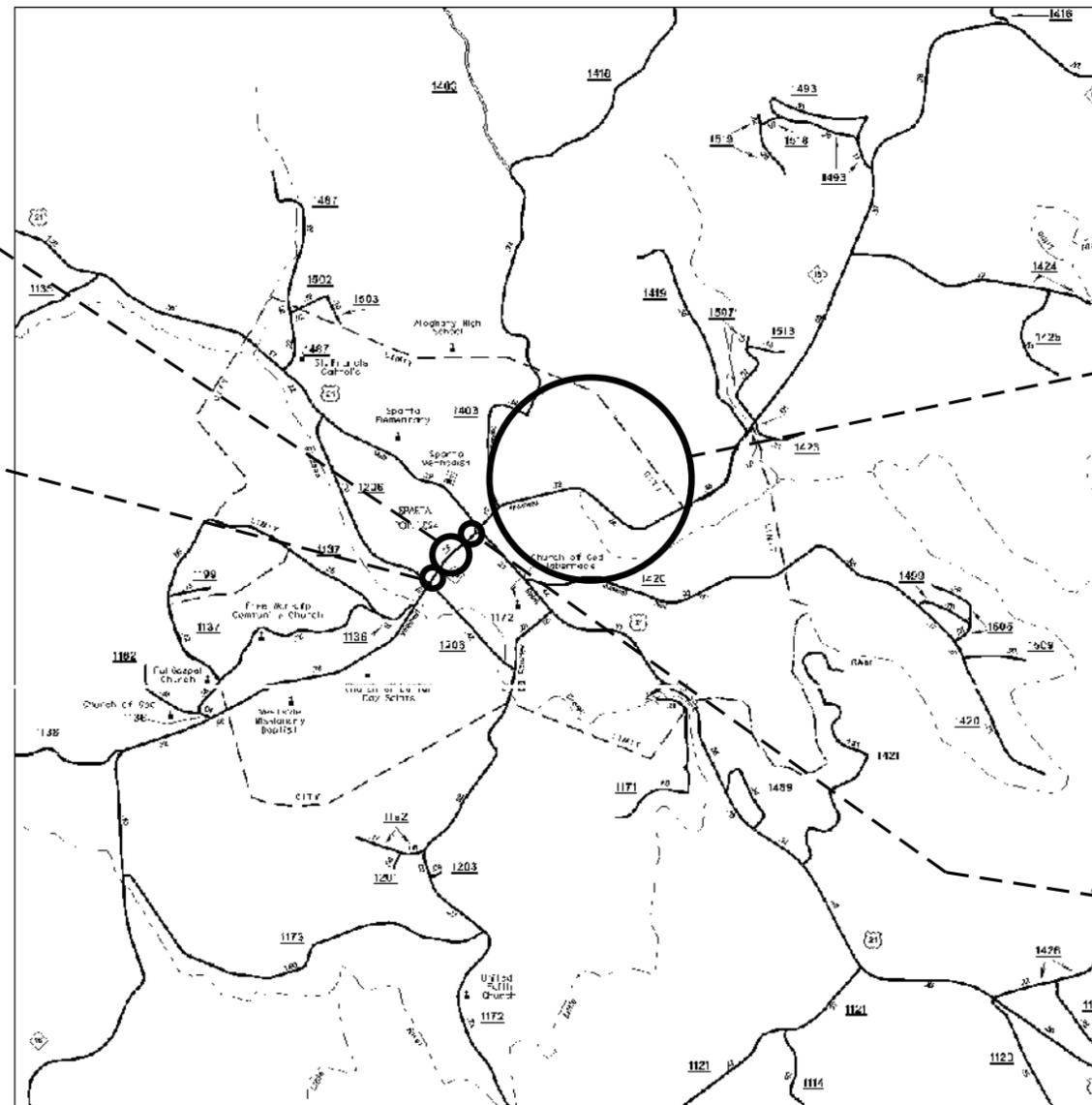
MAP #1

Route = NC 18
 BEGIN at Sparta North City Limits
 END at SR 1403
 Type = S9.5B

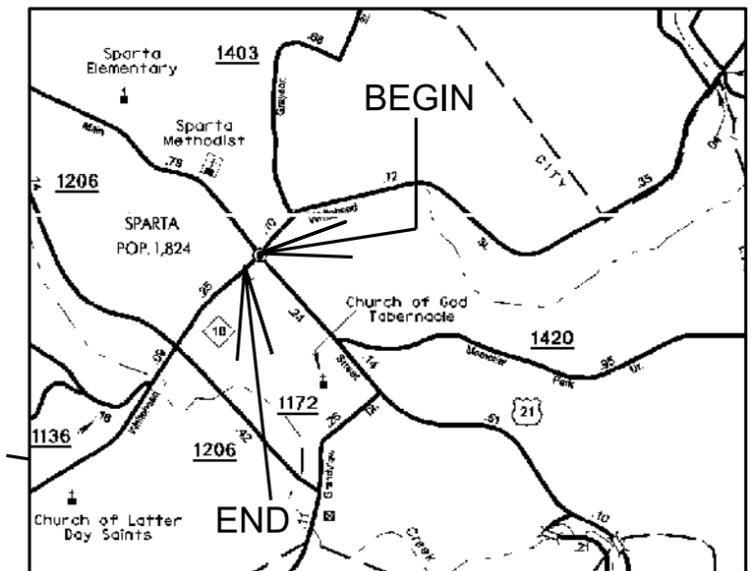


MAP #4

Route = NC 18
 BEGIN at Begin Turn Lane
 END at SR 1206
 Type = S9.5B

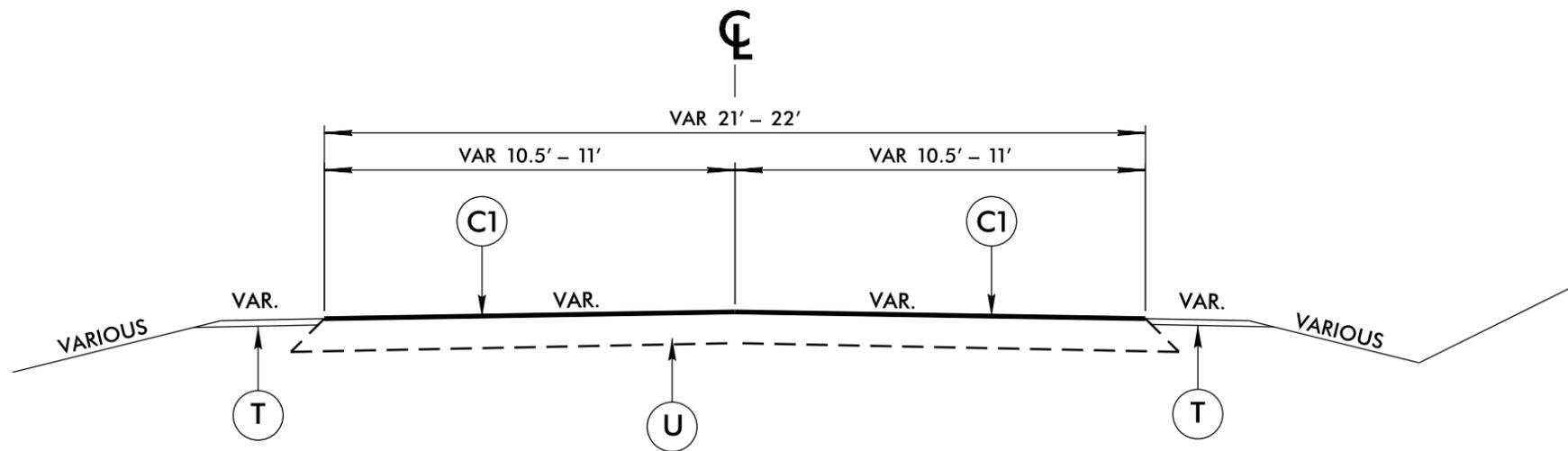


Sparta
 Pop. 1,824



MAP #2

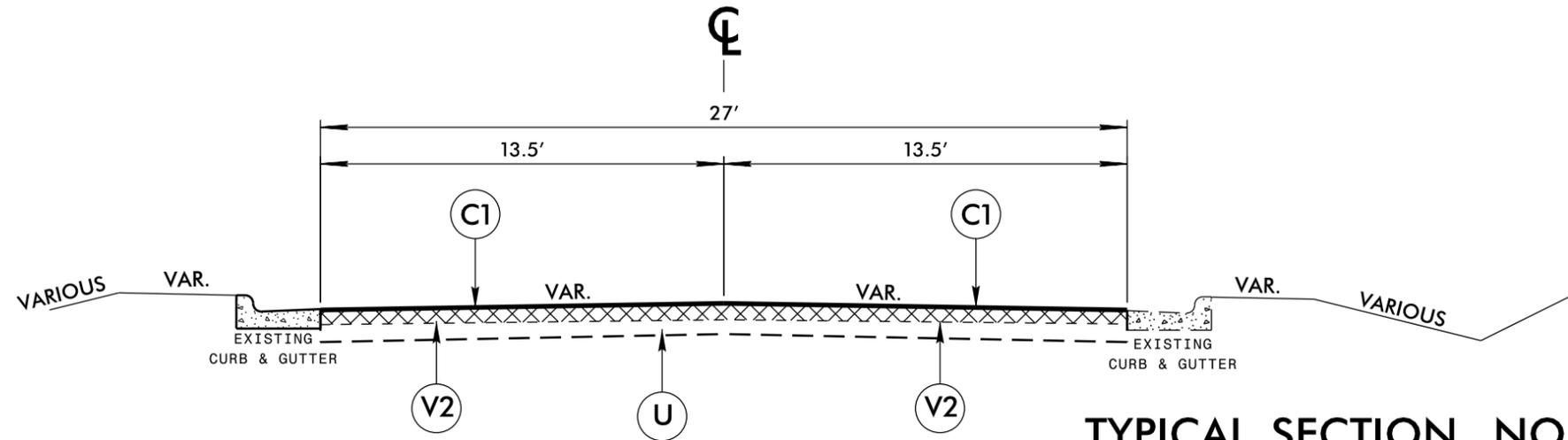
Route = NC 18
 BEGIN at US 21
 END at End of Sidewalk
 Type = S9.5B - (Mill 3" / Fill 1-1/2")



TYPICAL SECTION NO. 1

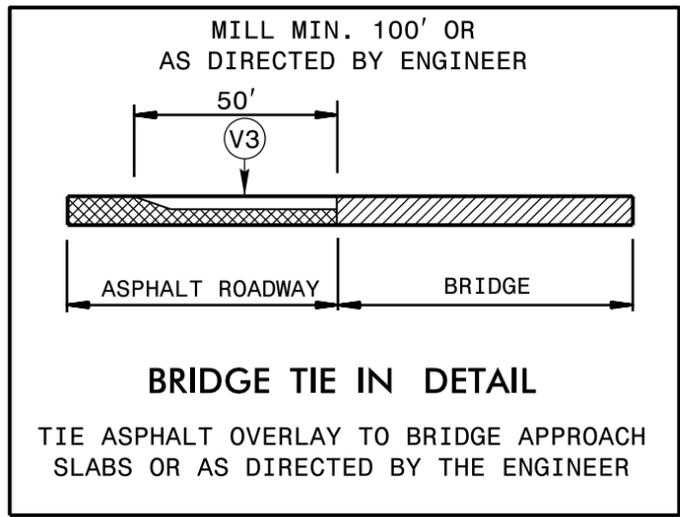
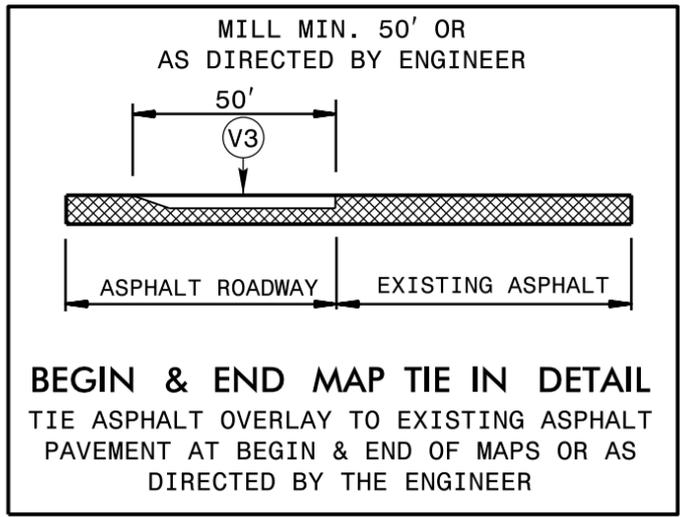
MAP 1 - NC 18 FROM SPARTA NCL TO SR 1403
 MAP 5 - NC 18 FROM WILKES COUNTY LINE TO SR 1145
 MAP 7 - NC 18 FROM NC 88 TO SR 1146
 MAP 8 - NC 18 FROM SR 1173 TO SR 1151

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1½"
V2	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 3"
V3	INCIDENTAL MILLING



TYPICAL SECTION NO. 2

MAP 2 - NC 18 FROM US 21 TO END OF SIDEWALK



**ALLEGHANY COUNTY
 PRIMARY AND SECONDARY
 RESURFACING**

DIVISION II

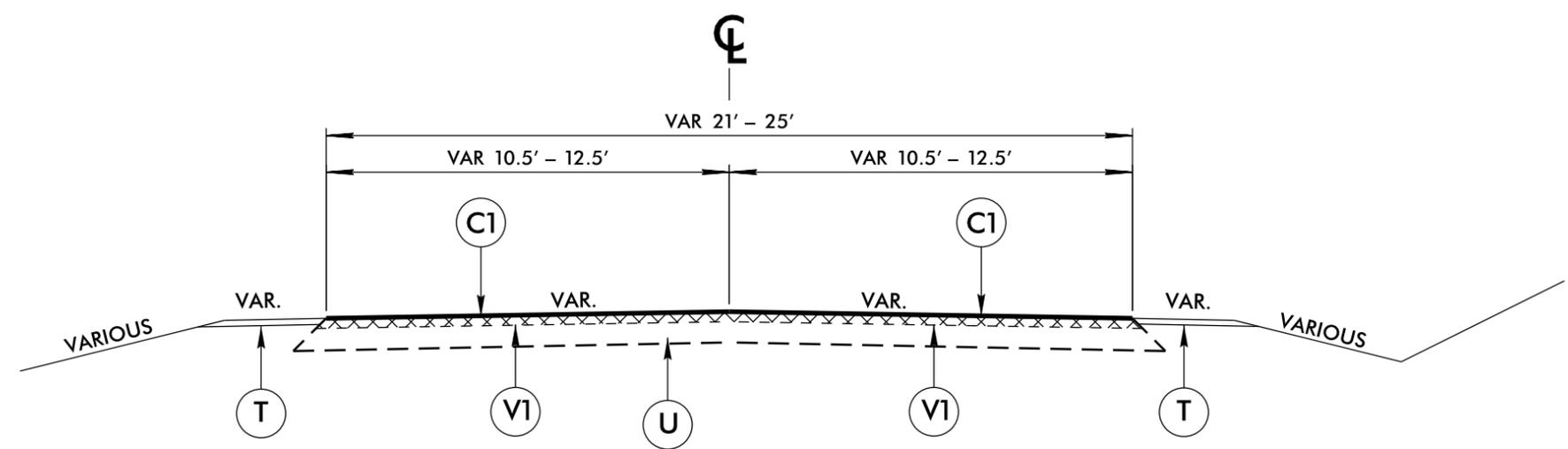
REVISIONS	INIT.	DATE

SCALE: N/A DATE: 06/2014

PREPARED BY: C.S. BAUGUESS
 REVIEWED BY: J.D. WOOD

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

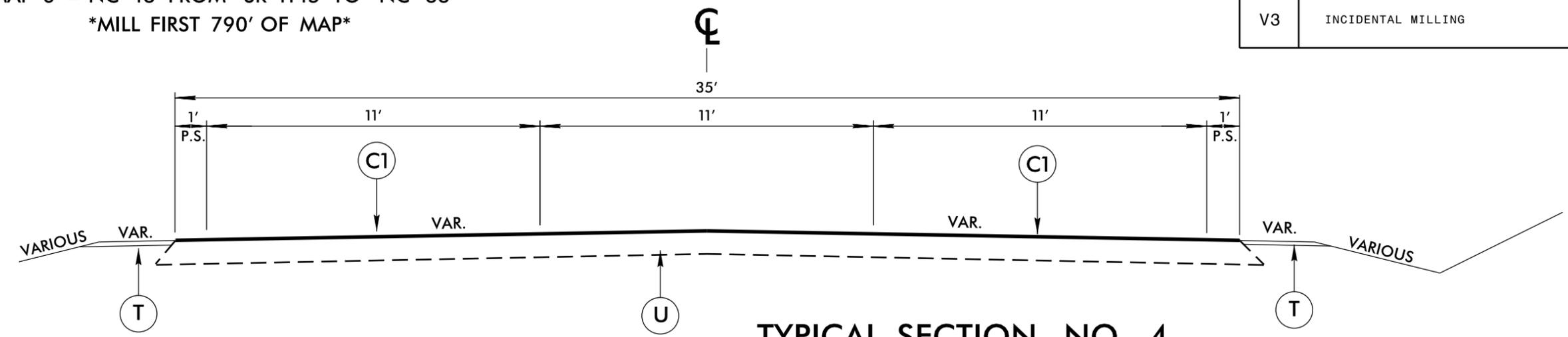




TYPICAL SECTION NO. 3

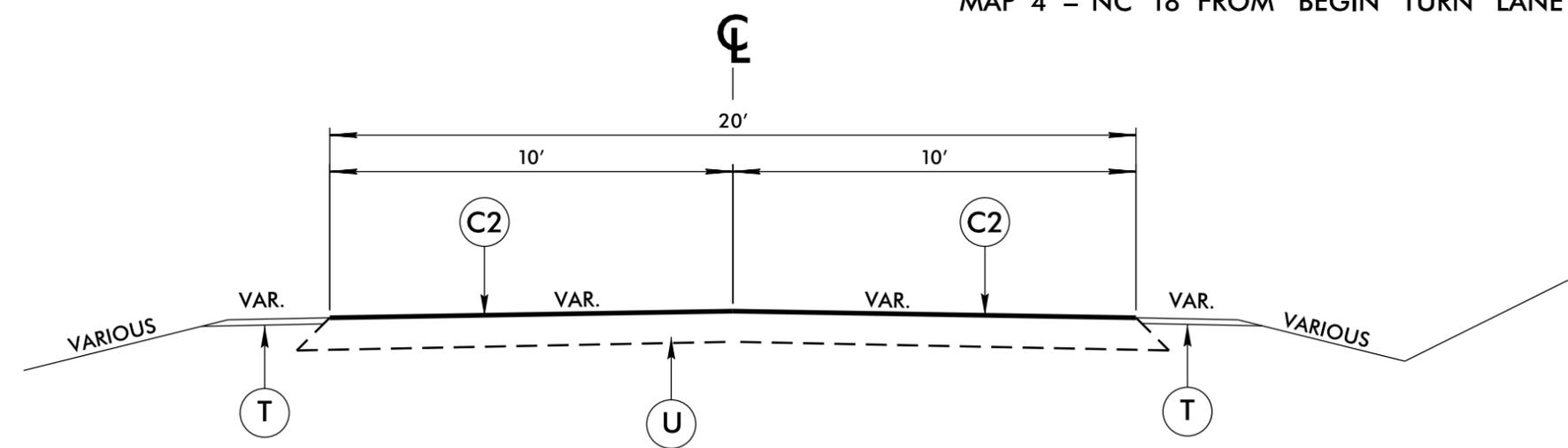
MAP 3 - NC 18 FROM END OF SIDEWALK TO BEGIN TURN LANE
 MILL FROM END OF SIDEWALK TO DUNCAN STREET
 MAP 6 - NC 18 FROM SR 1145 TO NC 88
 MILL FIRST 790' OF MAP

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1 1/2"
V2	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 3"
V3	INCIDENTAL MILLING



TYPICAL SECTION NO. 4

MAP 4 - NC 18 FROM BEGIN TURN LANE TO SR 1206



TYPICAL SECTION NO. 5

MAP 9 - SR 1426 FROM US 21 TO NC 18

**ALLEGHANY COUNTY
PRIMARY AND SECONDARY
RESURFACING**

DIVISION II

REVISIONS	INT.	DATE

SCALE: N/A DATE: 06/2014

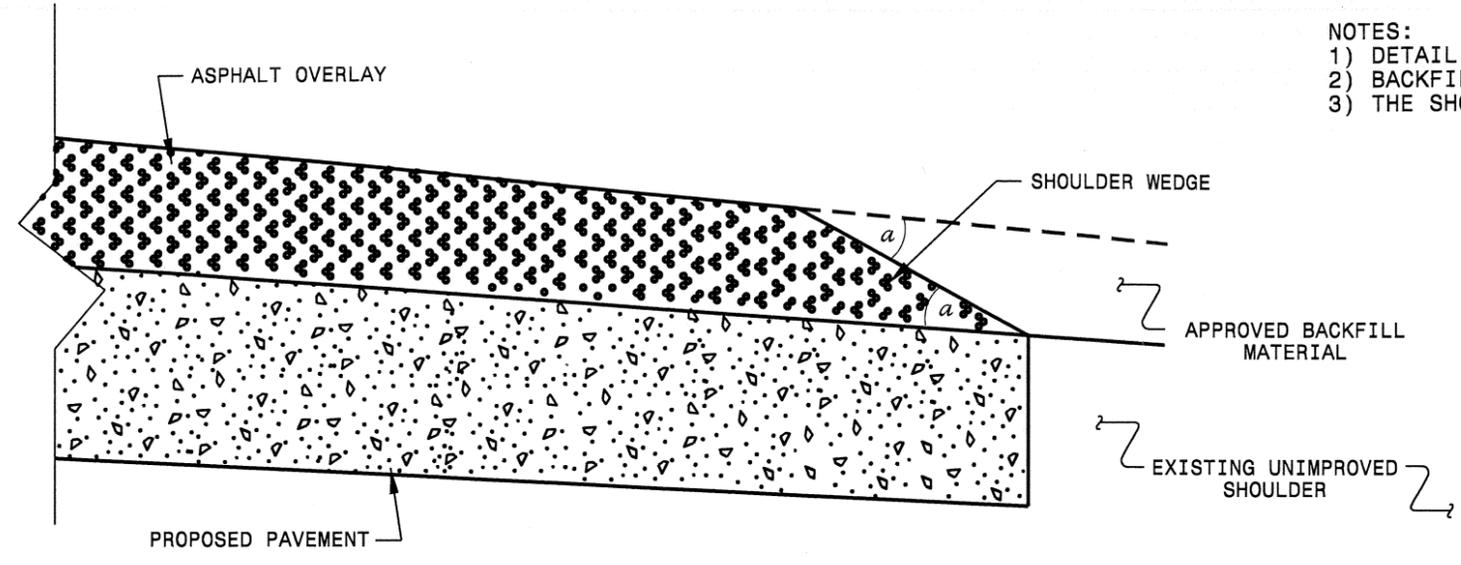
PREPARED BY: C.C. BAUGUESS
 REVIEWED BY: J.D. WOOD

REVIEWED BY:

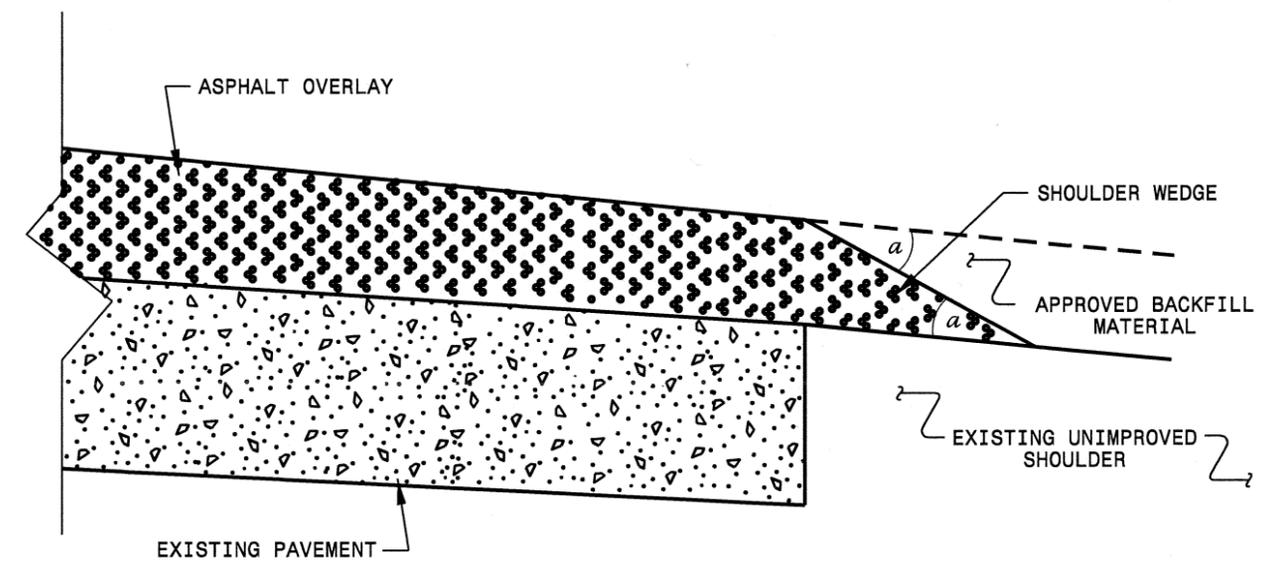
**N.C. DEPARTMENT of TRANSPORTATION
DIVISION of HIGHWAYS
DIVISION ELEVEN**

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

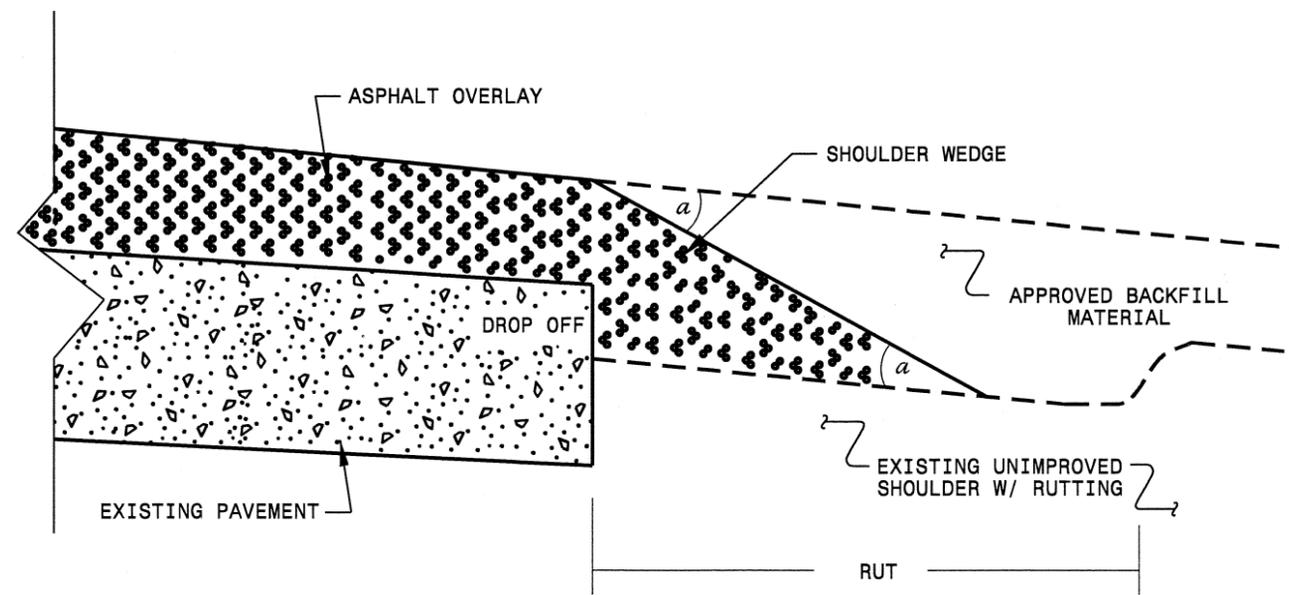
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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

PROJECT NO.	SHEET NO.	TOTAL NO.
11CR.10031.22, 11CR.20031.22		

SUMMARY OF QUANTITIES

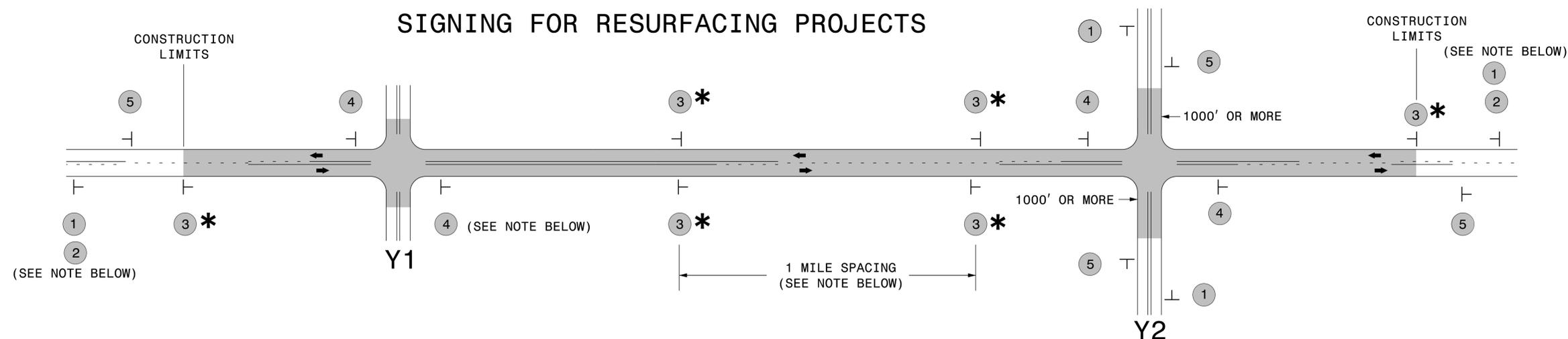
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	VARIMM ASPHALT REQUIRED	LENGTH M	WIDTH FT	BORROW EXCAVATION CY	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SM	3" MILLING SY	1½" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	SURFACE COURSE, SF9.5A TONS	ASPHALT BINDER FOR PLANT MX TONS	ADI. OF MANHOLES EA	ADI. OF METER OR VALVE BOX EA	SEED & MULCHING AC	INDUCTIVE LOOP LF	LEAD-IN CABLE LF
11CR.10031.22	Alleghany	1	NC 18	SPARTA NCL TO SR 1403	1	2	2WU	NO	NO	0.72	22	144	50	1.44			244	830		50	4		0.50		
11CR.10031.22	Alleghany	2	NC 18	FROM US 21 TO END OF SIDEWALK	2	2	2WU	NO	NO	0.05	27				792			60		4	2	1		120	25
11CR.10031.22	Alleghany	3	NC 18	FROM END SIDEWALK TO BEGIN TURN LANE	3	2	2WU	NO	NO	0.16	21	32	25	0.32		1,040		174		10	3		0.10		
11CR.10031.22	Alleghany	4	NC 18	FROM BEGIN TURN LANE SR 1206	4	2	2WU	NO	NO	0.08	35	16	25	0.16			195	170		10	1	1	0.05		
11CR.10031.22	Alleghany	5	NC 18	FROM WILKES COUNTY LINE TO SR 1145	1	2	2WU	NO	NO	1.94	22	388	50	3.88			990	2,215		133			1.20		
11CR.10031.22	Alleghany	6	NC 18	FROM SR 1145 TO NC 88	3	2	2WU	NO	NO	1.83	25	366	50	3.66		2,200	140	2,095		126			1.10		
11CR.10031.22	Alleghany	7	NC 18	FROM NC 88 TO SR 1146	1	2	2WU	NO	NO	1.44	21	288	50	2.88			288	1,625		98			0.90		
11CR.10031.22	Alleghany	8	NC 18	FROM SR 1173 TO SR 1151	1	2	2WU	NO	NO	3.61	22	722	100	7.22			245	4,035		242			2.40		
TOTAL FOR PROJ NO. 11CR.10031.22										9.83		1,956	350	19.56	792	3,240	2,102	11,204		673	10	2	6.25	120	25
11CR.20031.22	Alleghany	9	SR 1426	FROM US 21 TO NC 18	5	2	2WU	NO	NO	4.23	20	846	200	8.46			445		4,225	283			3.00		
TOTAL FOR PROJ NO. 11CR.20031.22										4.23		846	200	8.46			445		4,225	283			3.00		
GRAND TOTAL										14.06		2,802	550	28.02	792	3,240	2,547	11,204	4,225	956	10	2	9.25	120	25

PROJECT NO.	SHEET NO.	TOTAL NO.
11CR.10031.22, 11CR.20031.22		

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4413000000-E	4457000000-N	4810000000-E		4820000000-E	4835000000-E	4845000000-N	4905000000-N
										WORK ZONE ADVANCE/GENERAL WARNING SIGNS	TEMPORARY TRAFFIC CONTROL	4" WHITE PAINT	4" YELLOW PAINT	8" WHITE PAINT	24" WHITE PAINT	PAINT LT ARROW	SNOW PLOWABLE MARKERS
										SF	LS	LF	LF	LF	LF	EA	EA
11CR.10031.22	Alleghany	1	NC 18	SPARTA NCL TO SR 1403	1	2	2WU	0.72	22	70	1	15,206	15,206				95
11CR.10031.22	Alleghany	2	NC 18	FROM US 21 TO END OF SIDEWALK	2	2	2WU	0.05	27	38	*		1,056	110	24		7
11CR.10031.22	Alleghany	3	NC 18	FROM END SIDEWALK TO BEGIN TURN LANE	3	2	2WU	0.16	21	38	*	3,379	3,379				21
11CR.10031.22	Alleghany	4	NC 18	FROM BEGIN TURN LANE SR 1206	4	2	2WU	0.08	35	38	*	1,690	1,690			4	11
11CR.10031.22	Alleghany	5	NC 18	FROM WILKES COUNTY LINE TO SR 1145	1	2	2WU	1.94	22	116	*	40,973	40,973				257
11CR.10031.22	Alleghany	6	NC 18	FROM SR 1145 TO NC 88	3	2	2WU	1.83	25	116	*	38,650	38,650				242
11CR.10031.22	Alleghany	7	NC 18	FROM NC 88 TO SR 1146	1	2	2WU	1.44	21	116	*	30,413	30,413				191
11CR.10031.22	Alleghany	8	NC 18	FROM SR 1173 TO SR 1151	1	2	2WU	3.61	22	176	*	76,243	76,243				477
TOTAL FOR PROJ NO. 11CR.10031.22								9.83		708		206,554	207,610	110	24	4	1,301
												414,164					
11CR.20031.22	Alleghany	9	SR 1426	FROM US 21 TO NC 18	5	2	2WU	4.23	20	208	*	89,338	89,338				
TOTAL FOR PROJ NO. 11CR.20031.22								4.23		208		89,338	89,338				
												178,676					
GRAND TOTAL								14.06		916	1	295,892	296,948	110	24	4	1,301
												592,840					

SIGNING FOR RESURFACING PROJECTS



LEGEND	
┆	STATIONARY SIGN
←	DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1	2	3 *	4	5	
						<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>
	<p>PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.</p>					
	<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>					
	<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>					
<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>						
<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