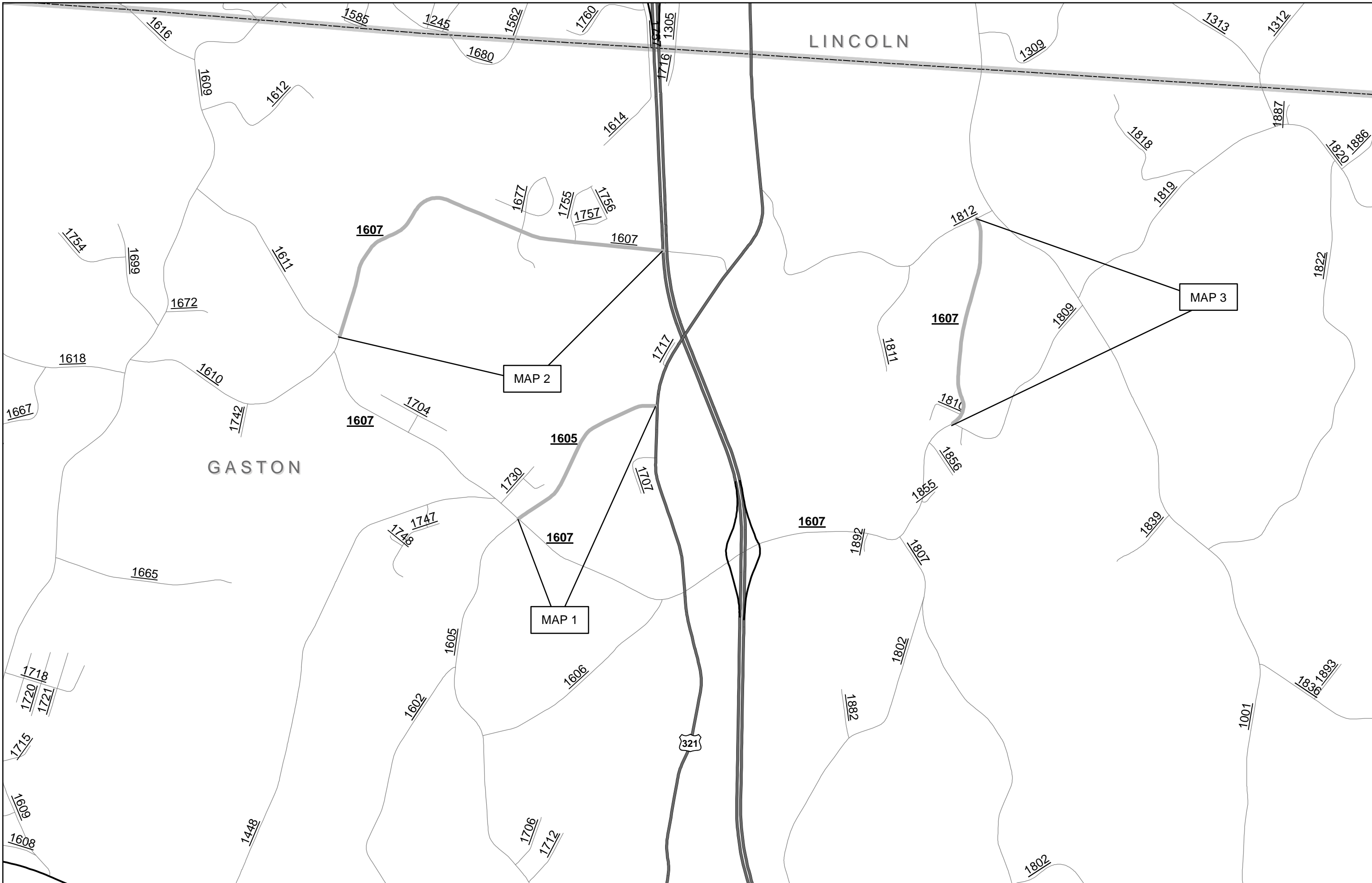
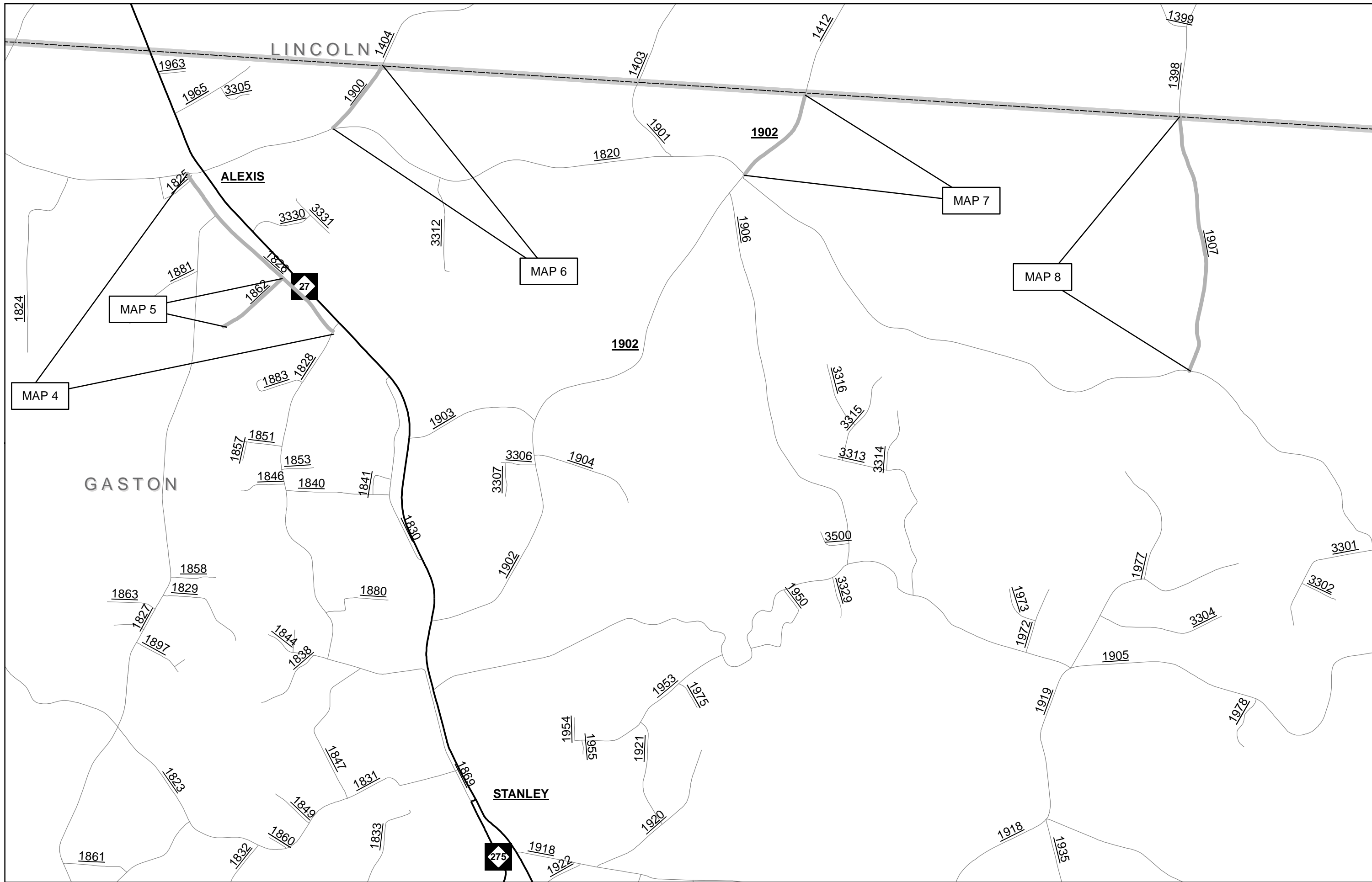


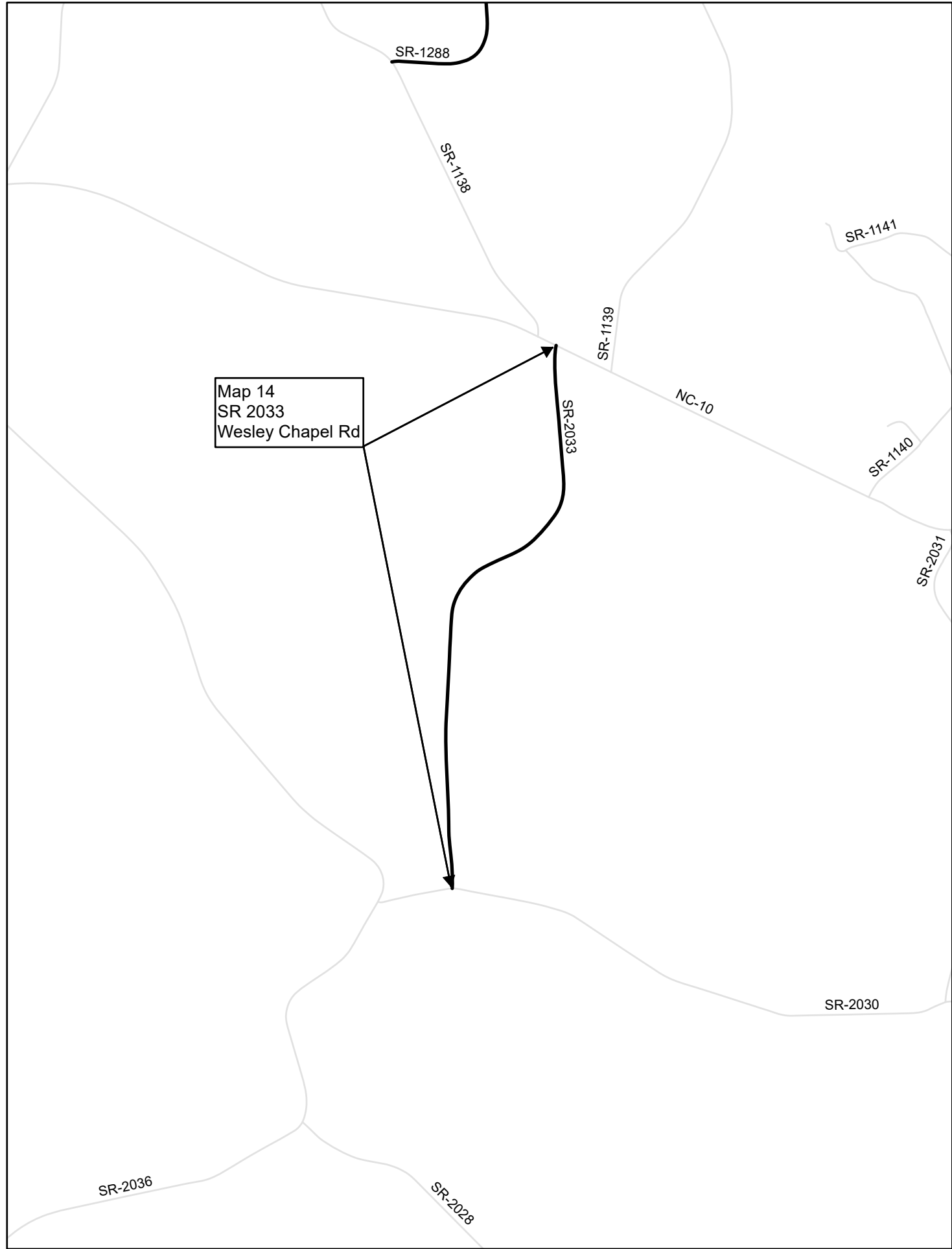
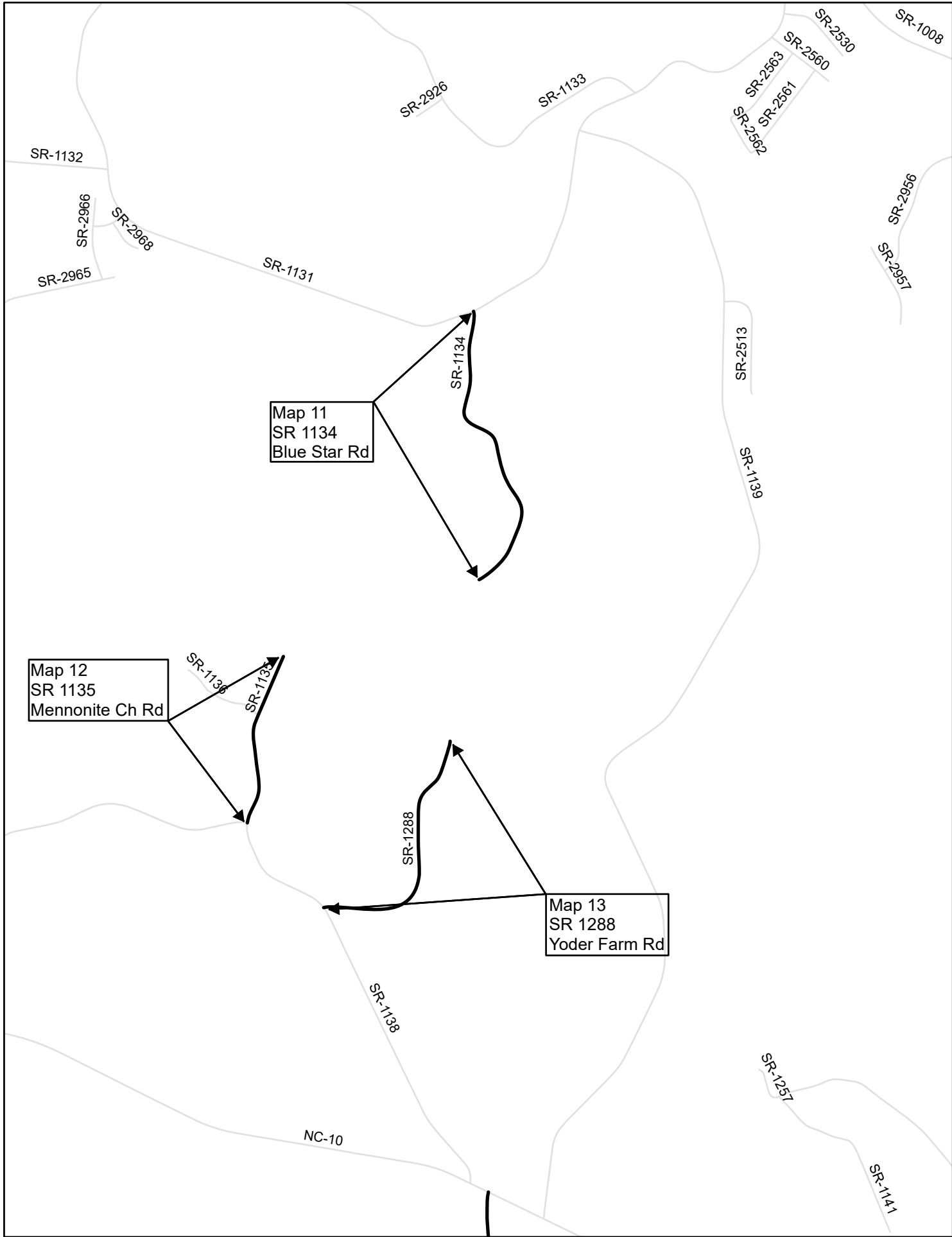
**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

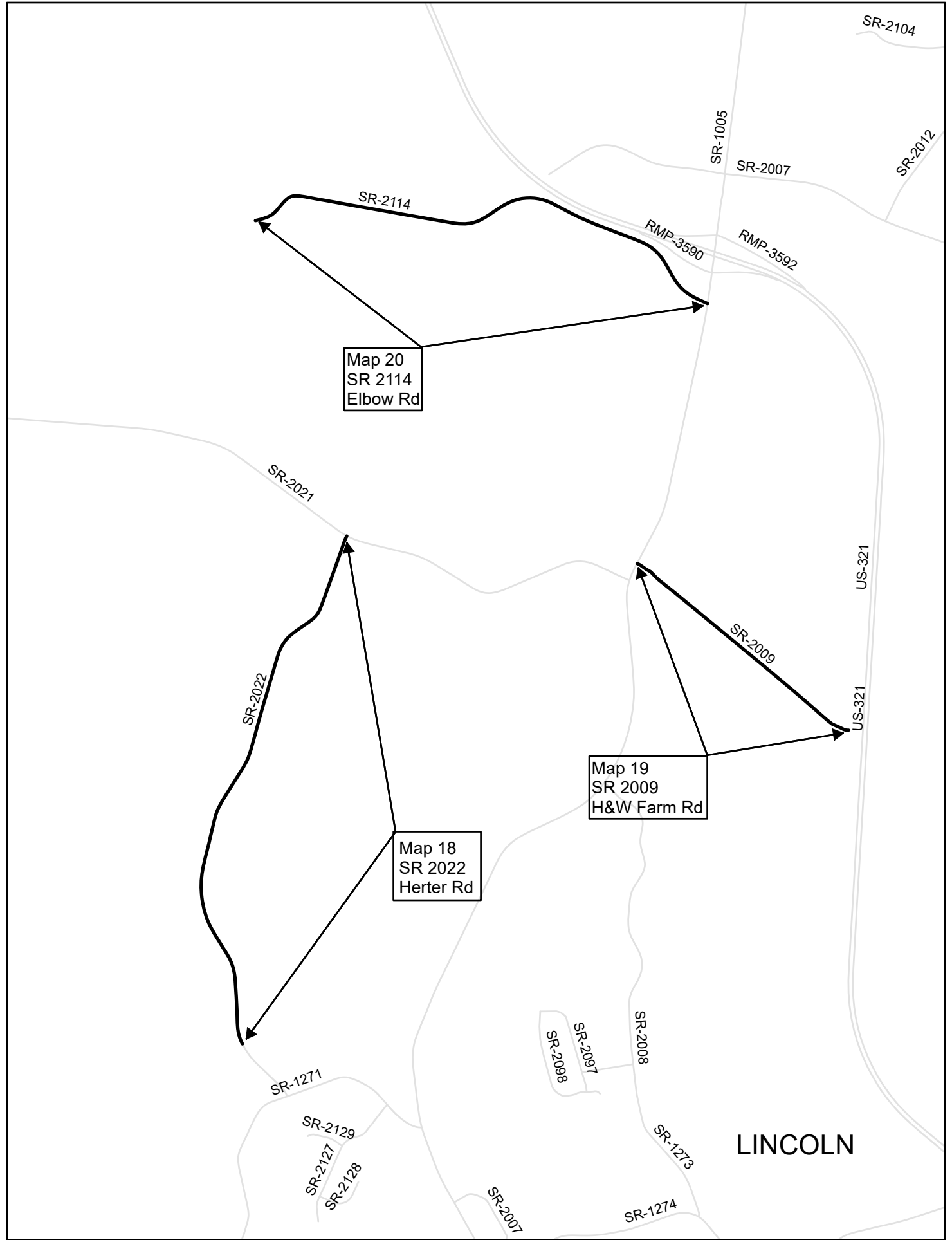
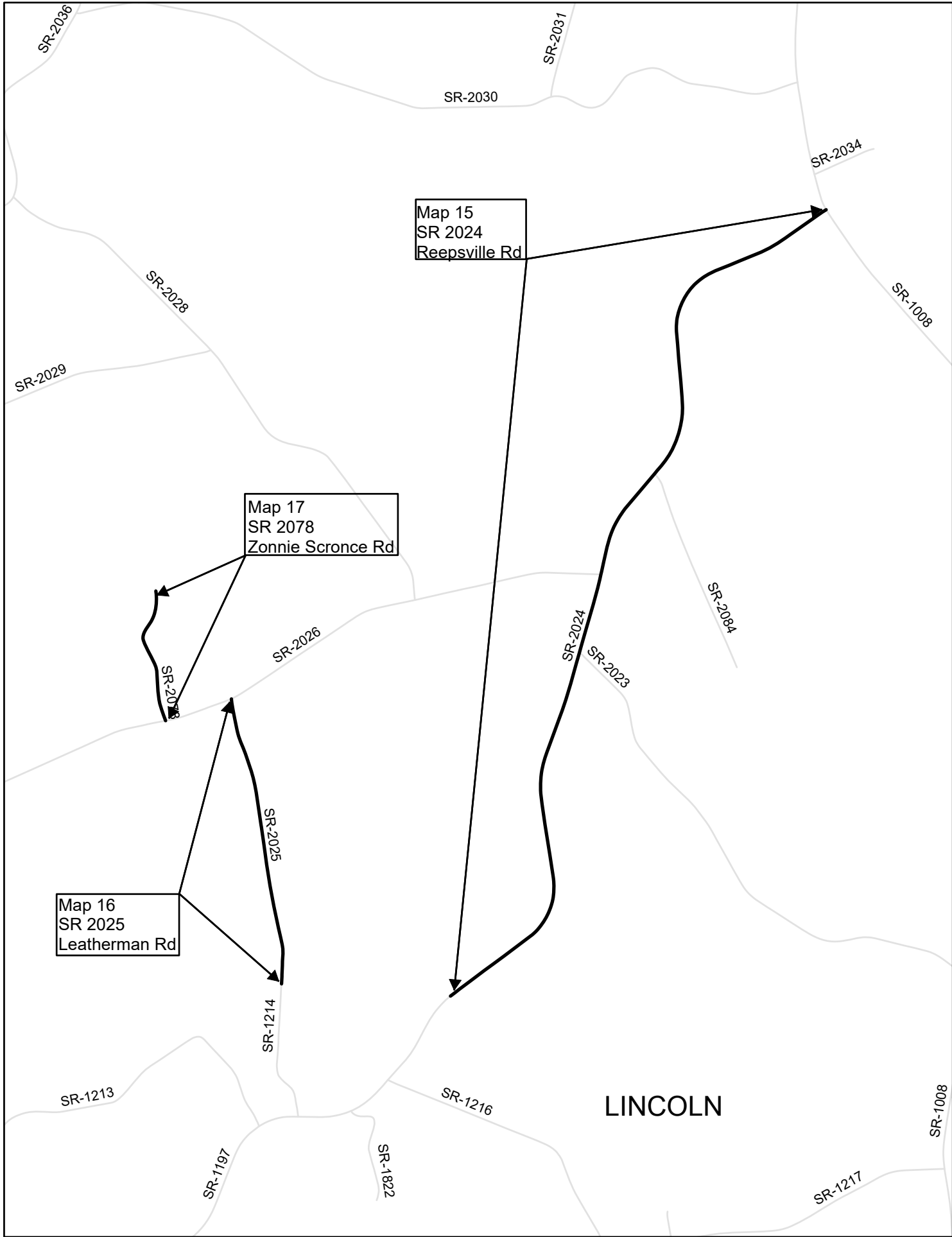
**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

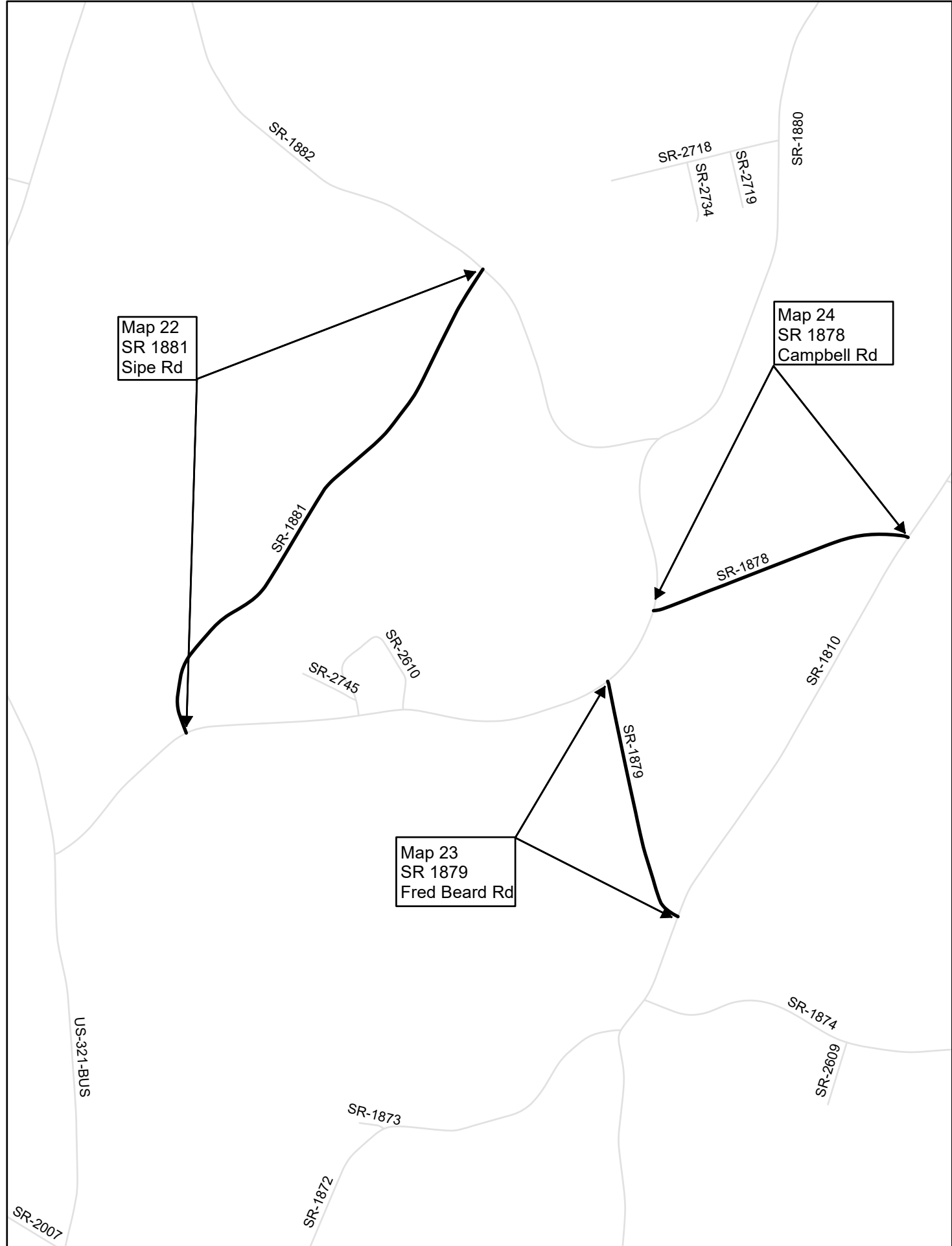
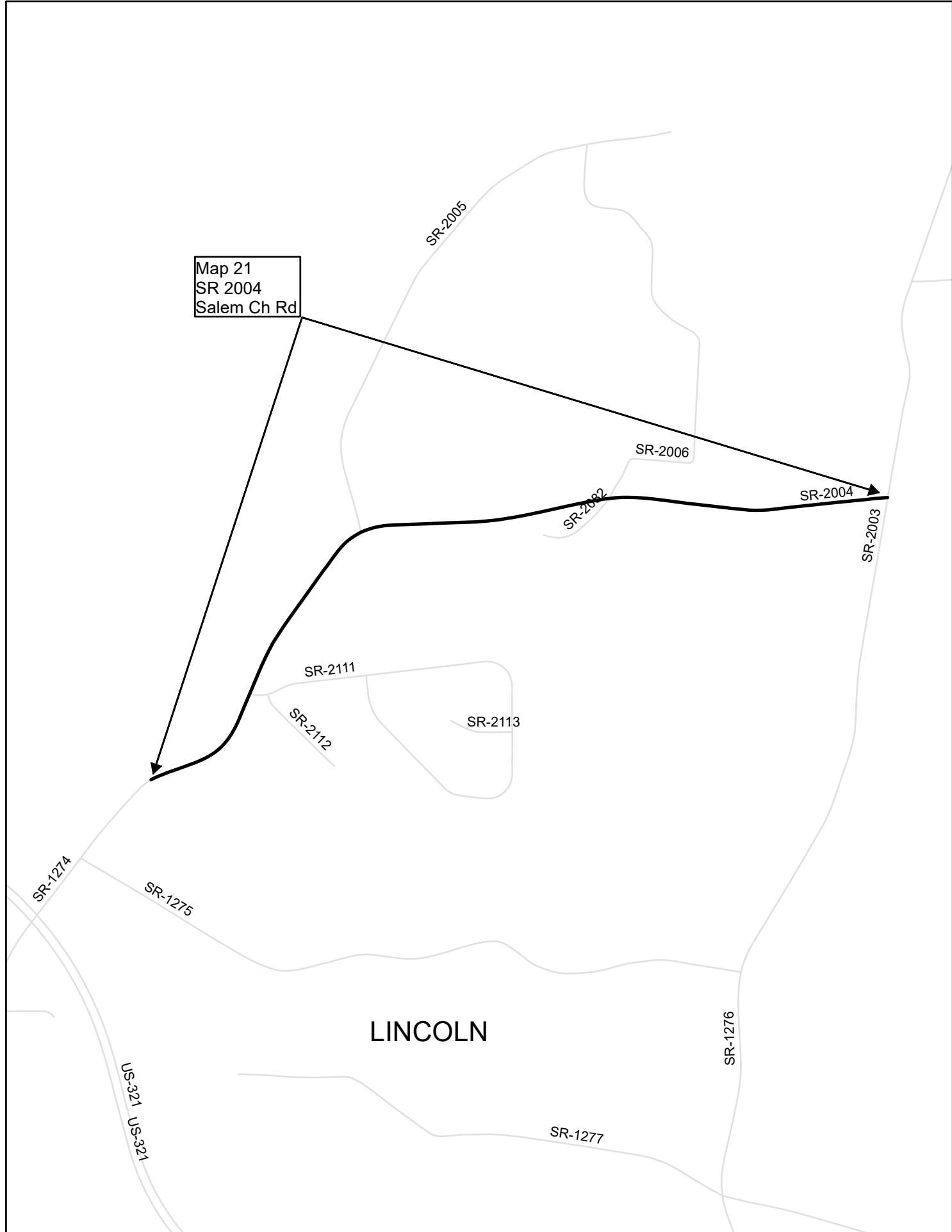
**This file or an individual page
shall not be considered a certified document.**

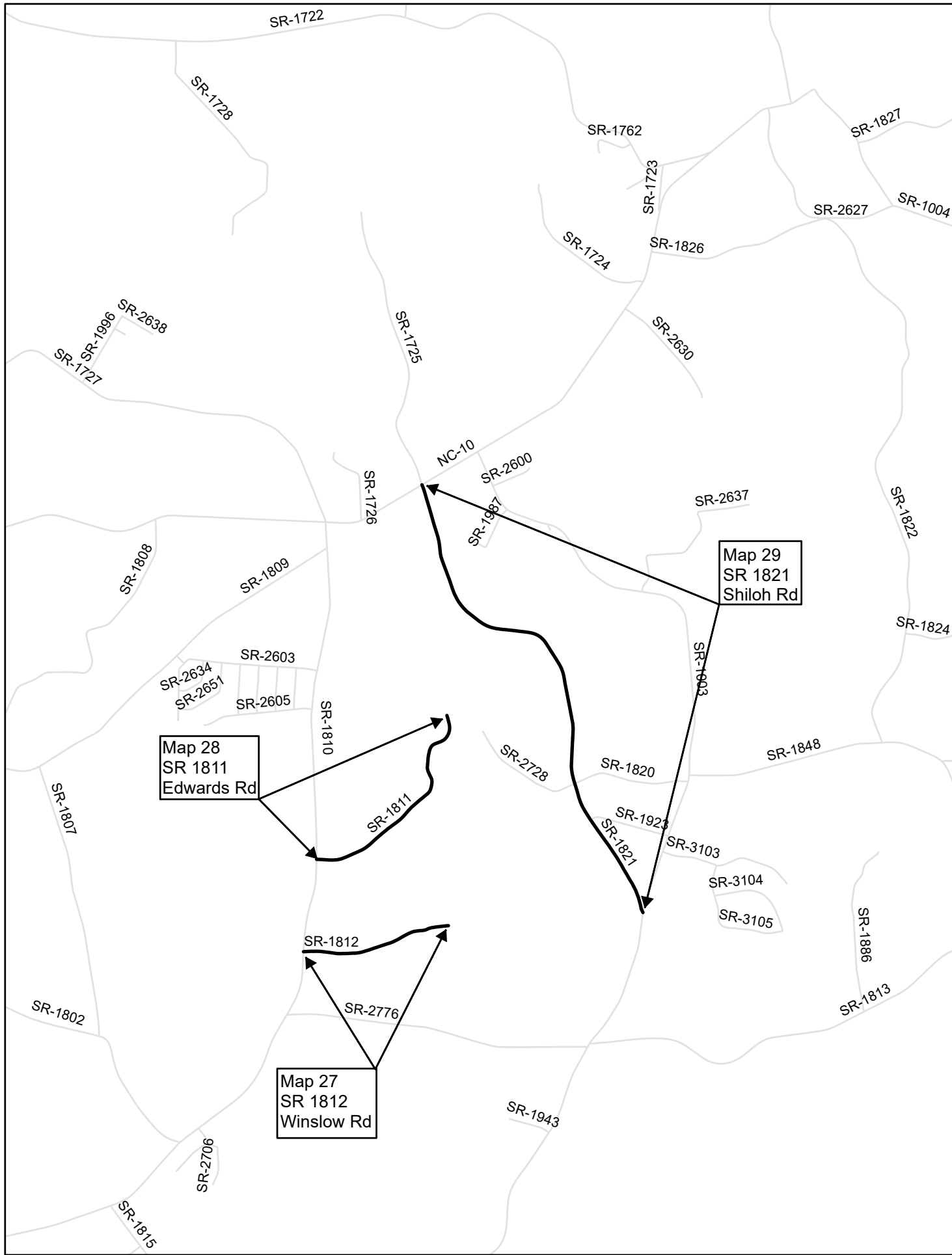
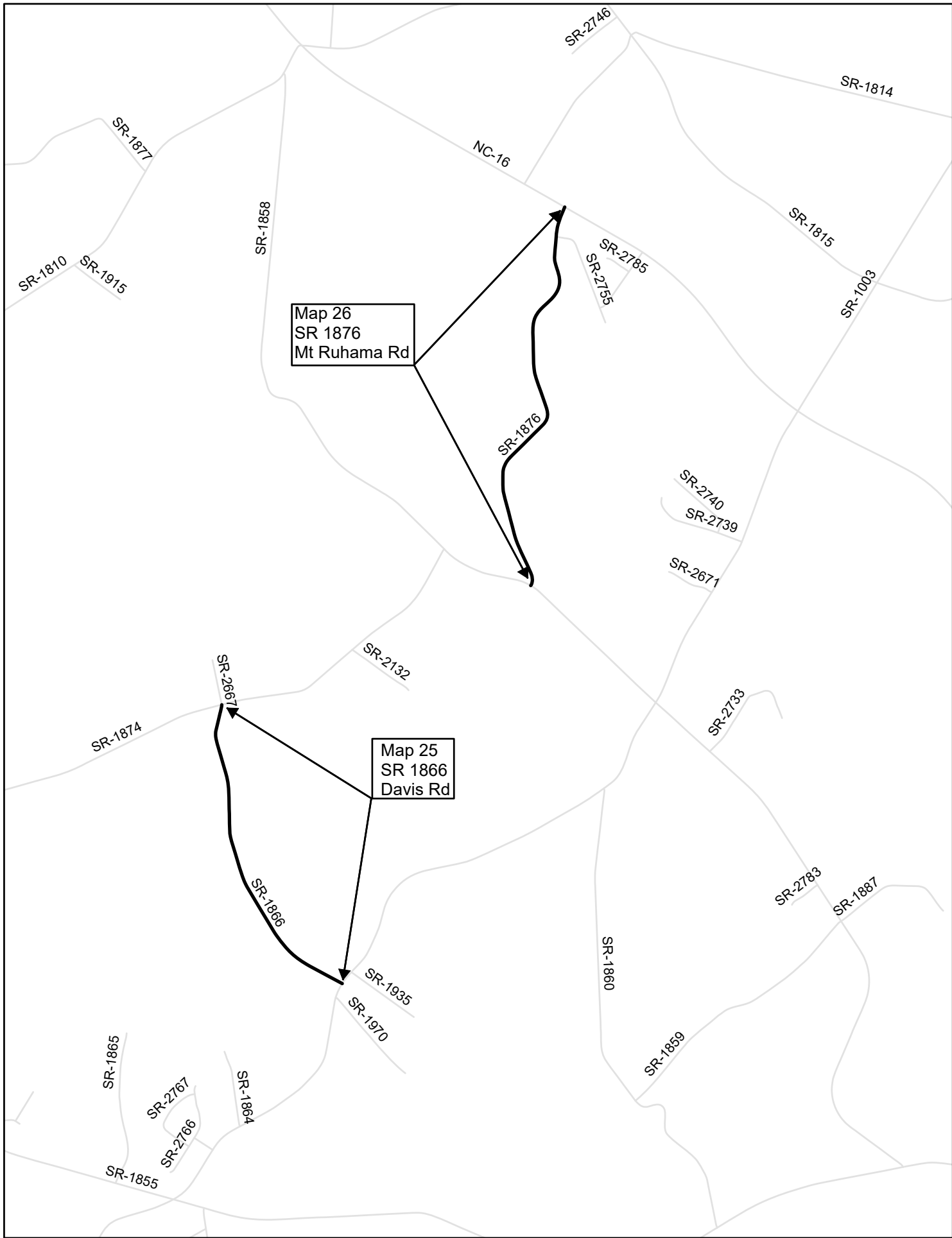


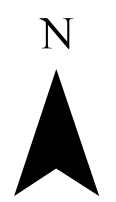
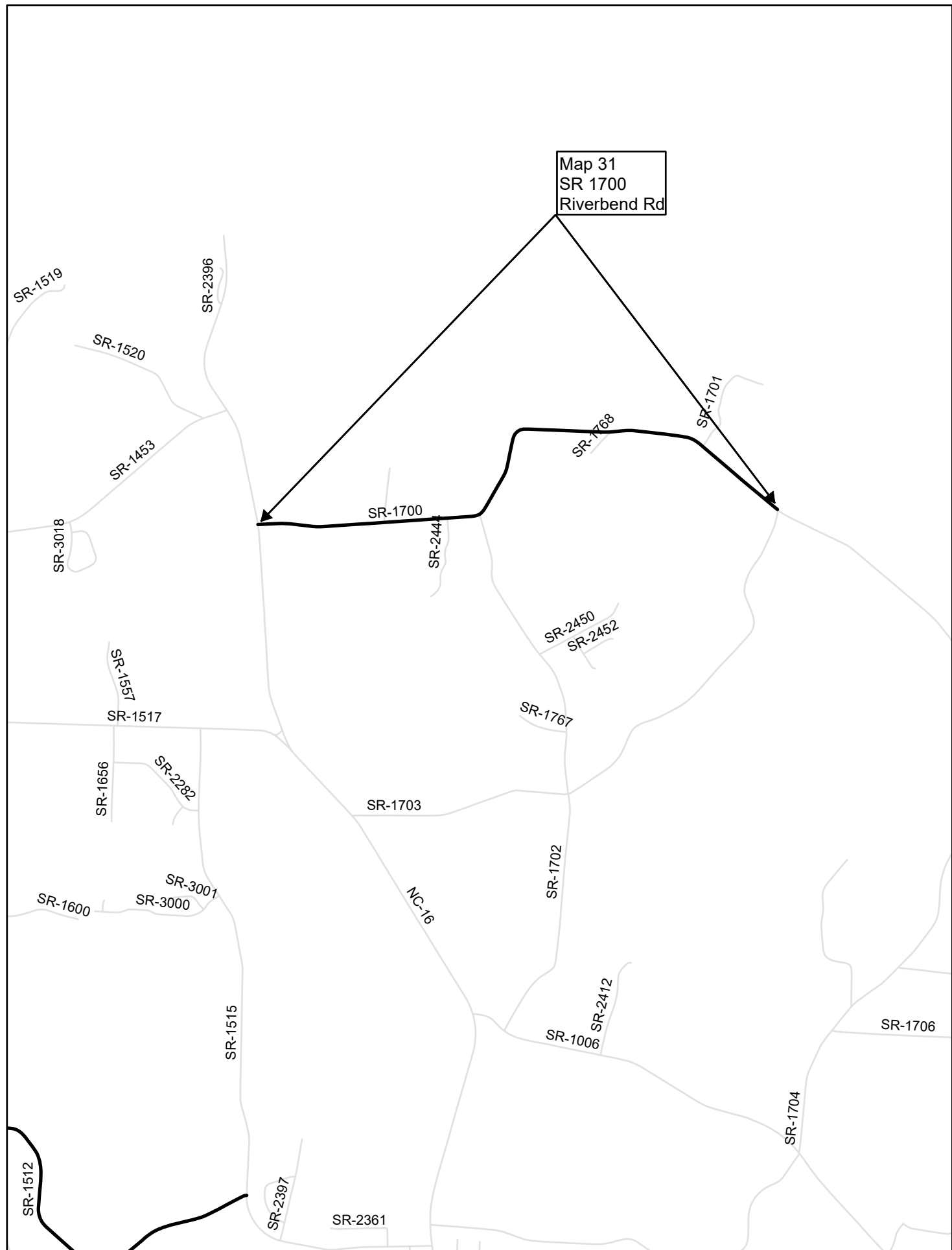
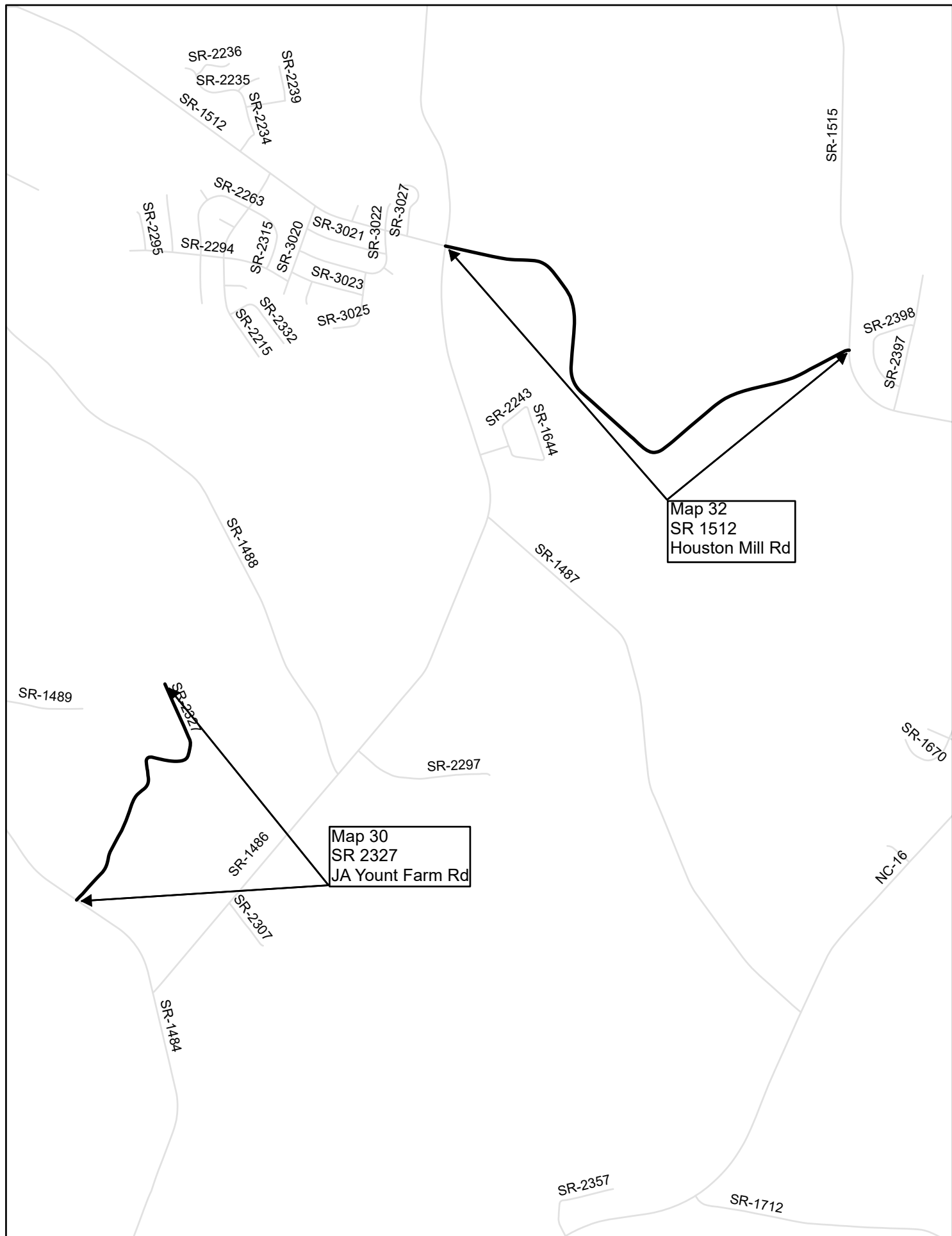








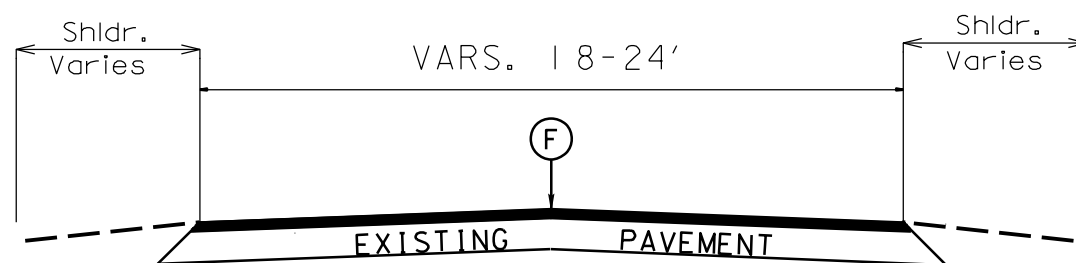




STATE	PROJECT WBS	SHEET NUMBER
NC	2018CPT.12.27.20182	10
	2018CPT.12.27.20362	

Checked by:

Drawn by: G. Brittain



TYPICAL SECTION NO. 1
All Maps

PAVEMENT SCHEDULE	
F	Latex Modified Microsurfacing Type III at an Application Rate of 22 to 26 Pounds per Square Yard

*Note: Maps 1, 2, and 6 are to be leveled prior to placing final surface layer.

2019-2020
Pavement Preservation
Typical Sections
Lincoln & Gaston County NC

PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.12.27.20182, 2018CPT.12.27.20362	11	13

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	122000000-E	188000000-E	188200000-E	189100000-E		
												INCIDENTAL STONE BASE	AGGREGATE, TYPE III	LATEX MODIFIED EMULSION	LATEX MOD MICROSURFACE, TYPE III		
												MI	FT	TONS	TON	GAL	SY
2018CPT.12.27.20362	Gaston	1	SR 1605 (MILES RD.)	SR 1607 TO US 321 B	1	2	2WU	NO	NO	0.85	18	15	95	2,160	9,874		
2018CPT.12.27.20362	Gaston	2	SR 1607 (HIGH SHOALS RD.)	US 321 BRIDGE TO SR 1611	1	2	2WU	NO	NO	1.84	18.5	15	200	4,560	21,967		
2018CPT.12.27.20362	Gaston	3	SR 1607 (HARDIN RD.)	SR 1809 TO SR 1812	1	2	2WU	NO	NO	0.95	18				11,035		
2018CPT.12.27.20362	Gaston	4	SR 1826 (CHARLOTTE ST.)	SR 1820 TO SR 1828	1	2	2WU	NO	NO	0.97	18				11,268		
2018CPT.12.27.20362	Gaston	5	SR 1862 (MAPLEWOOD LN.)	SR 1826 TO DEAD END	1	2	2WU	NO	NO	0.35	20				4,517		
2018CPT.12.27.20362	Gaston	6	SR 1900 (MT. ZION CH. RD.)	LINCOLN COUNTY LINE TO SR 1820	1	2	2WU	NO	NO	0.36	18	15	42	890	4,182		
2018CPT.12.27.20362	Gaston	7	SR 1902 (MARIPOSA RD)	SR 1820 TO LINCOLN COUNTY LINE	1	2	2WU	NO	NO	0.48	21				6,505		
2018CPT.12.27.20362	Gaston	8	SR 1907 (OLD LOWESVILLE RD)	LINCOLN COUNTY LINE TO SR 1820	1	2	2WU	NO	NO	1.17	20				15,101		
2018CPT.12.27.20362	Gaston	9	SR 1923 (OLD NC 27 HWY.)	SR 1918 TO BRIDGE	1	2	2WU	NO	NO	4.15	19				50,885		
2018CPT.12.27.20362	Gaston	10	SR 2002 (LINEBERGER RD.)	NC 275 TO END MAINT	1	2	2WU	NO	NO	0.79	20				10,196		
TOTAL FOR PROJ NO. 2018CPT.12.27.20362											11.91		45	337	7,610	145,530	
2018CPT.12.27.20182	Catawba	11	SR 1134 (BLUE STAR RD)	FROM SR 1131 (PITTS TOWN RD) TO END MAINT	1	2	2WU	NO	NO	0.74	19				8,661		
2018CPT.12.27.20182	Catawba	12	SR 1135 (MENNONITE CH RD)	FROM SR 1138 (WHITENER RD) TO END MAINT	1	2	2WU	NO	NO	0.43	18				4,768		
2018CPT.12.27.20182	Catawba	13	SR 1288 (YODER FARM RD)	FROM SR 1138 (WHITENER RD) TO END MAINT	1	2	2WU	NO	NO	0.63	18				6,985		
2018CPT.12.27.20182	Catawba	14	SR 2033 (WESLEY CHAPEL RD)	FROM NC 10 TO SR 2030 (GRACE CH RD)	1	2	2WU	NO	NO	1.45	19				16,971		
2018CPT.12.27.20182	Catawba	15	SR 2024 (REEPSVILLE RD)	FROM SR 1008 (HICKORY-LINCOLN HWY) TO LINCOLN CO	1	2	2WU	NO	NO	2.77	19				32,420		
2018CPT.12.27.20182	Catawba	16	SR 2025 (LEATHERMAN RD)	FROM SR 2026 TO LINCOLN CO	1	2	2WU	NO	NO	0.85	20				10,472		
2018CPT.12.27.20182	Catawba	17	SR 2078 (ZONNIE SCRONCE RD)	FROM SR 2026 (MACEDONIA CH RD) TO END MAINT	1	2	2WU	NO	NO	0.4	20				4,928		
2018CPT.12.27.20182	Catawba	18	SR 2022 (HERTER RD)	FROM SR 2021 (BLACKBURN BRIDGE RD) TO LINCOLN CO	1	2	2WU	NO	NO	1.63	20				20,082		
2018CPT.12.27.20182	Catawba	19	SR 2009 (H&W FARM RD)	FROM SR 1005 (STARTOWN RD) TO END MAINT	1	2	2WU	NO	NO	0.8	20				9,856		
2018CPT.12.27.20182	Catawba	20	SR 2114 (ELBOW RD)	FROM SR 1005 (STARTOWN RD) TO DEAD END	1	2	2WU	NO	NO	1.49	24				22,028		
2018CPT.12.27.20182	Catawba	21	SR 2004 (SALEM CH RD)	FROM SR 2003 (GOLF COURSE RD) TO LINCOLN CO	1	2	2WU	NO	NO	1.35	18				14,969		
2018CPT.12.27.20182	Catawba	22	SR 1881 (SIPE RD)	FROM SR 1880 (MAYS CHAPEL CH RD) TO SR 1882 (JACK WHITENER RD)	1	2	2WU	NO	NO	1.12	18				12,419		
2018CPT.12.27.20182	Catawba	23	SR 1879 (FRED BEARD RD)	FROM SR 1880 (MAYS CHAPEL CH RD) TO SR 1810 (PROVIDENCE MILL RD)	1	2	2WU	NO	NO	0.49	18				5,433		
2018CPT.12.27.20182	Catawba	24	SR 1878 (CAMPBELL RD)	FROM SR 1880 (ST JAMES CH RD) TO SR 1810 (PROVIDENCE MILL RD)	1	2	2WU	NO	NO	0.52	18				5,766		
2018CPT.12.27.20182	Catawba	25	SR 1866 (DAVIS RD)	FROM SR 1003 (BUFFALO SHOALS RD) TO SR 1874 (WATER PLANT RD)	1	2	2WU	NO	NO	1.27	20				15,646		
2018CPT.12.27.20182	Catawba	26	SR 1876 (MT RUHAMA CH RD)	FROM SR 1858 (N OLIVERS CROSSROADS) TO NC 16	1	2	2WU	NO	NO	1.61	18				17,852		
2018CPT.12.27.20182	Catawba	27	SR 1812 (WINSLOW RD)	FROM SR 1810 (BALLS CREEK RD) TO CUL-DE-SAC	1	2	2WU	NO	NO	0.7	18				7,762		
2018CPT.12.27.20182	Catawba	28	SR 1811 (EDWARDS RD)	FROM SR 1810 (BALLS CREEK RD) TO END MAINT	1	2	2WU	NO	NO	1.05	19				12,289		
2018CPT.12.27.20182	Catawba	29	SR 1821 (SHILOH RD)	FROM SR 1003 (BUFFALO SHOALS RD) TO NC 10	1	2	2WU	NO	NO	2.41	19				28,207		
2018CPT.12.27.20182	Catawba	30	SR 2327 (JA YOUNT FARM RD)	FROM SR 1484 (COUNTY HOME RD) TO END MAINT	1	2	2WU	NO	NO	0.836	19				9,319		
2018CPT.12.27.20182	Catawba	31	SR 1700 (RIVERBEND RD)	FROM NC 16 TO SR 1703 (SHELL HOLLAR RD)	1	2	2WU	NO	NO	2.35	19				27,504		
2018CPT.12.27.20182	Catawba	32	SR 1512 (HOUSTON MILL RD)	FROM SR 1486 (LEE CLINE RD) TO SR 1515 (SWINGING BRIDGE RD)	1	2	2WU	NO	NO	1.64	19				19,195		
TOTAL FOR PROJ NO. 2018CPT.12.27.20182											26.536					313,532	
GRAND TOTAL											38.446		45	337	7,610	459,062	

PROJECT NO.	SHEET NO.	TOTAL NO.
2018CPT.12.27.20182	12	13
2018CPT.12.27.20362,		

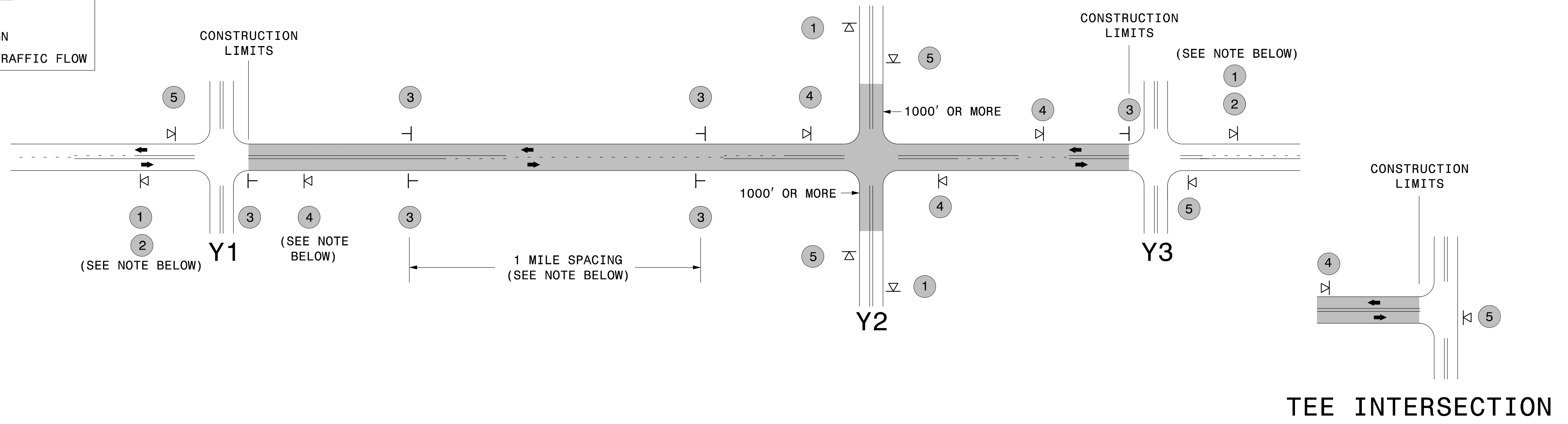
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	441300000-E	445700000-N	470500000-E	471000000-E	472100000-E		481000000-E		487500000-N	
										WORK ZONE ADVANCE GENERAL WARNING	TEMPORARY TRAFFIC CONTROL	16" X 120 M WHITE THERMO	24" X 120 M WHITE THERMO	THERMO RXR 120 M	THERMO MSG SCHOOL 120 M	4" WHITE PAINT	4" YELLOW PAINT	REMOVAL OF PAVEMENT MKG. SYMBOLS & CHARS.	
										MI	FT	SF	LS	LF	LF	EA	EA	LF	LF
2018CPT.12.27.20362	Gaston	1	SR 1605 (MILES RD.)	SR 1607 TO US 321 B	1	2	2WU	0.85	18	84	*						18,292	18,292	
2018CPT.12.27.20362	Gaston	2	SR 1607 (HIGH SHOALS RD.)	US 321 BRIDGE TO SR 1611	1	2	2WU	1.84	18.5	116	*						39,597	24,288	
2018CPT.12.27.20362	Gaston	3	SR 1607 (HARDIN RD.)	SR 1809 TO SR 1812	1	2	2WU	0.95	18	84	*						20,444	20,444	
2018CPT.12.27.20362	Gaston	4	SR 1826 (CHARLOTTE ST.)	SR 1820 TO SR 1828	1	2	2WU	0.97	18	84	*						20,874	20,874	
2018CPT.12.27.20362	Gaston	5	SR 1862 (MAPLEWOOD LN.)	SR 1826 TO DEAD END	1	2	2WU	0.35	20	84	*								
2018CPT.12.27.20362	Gaston	6	SR 1900 (MT. ZION CH. RD.)	LINCOLN COUNTY LINE TO SR 1820	1	2	2WU	0.36	18	84	*						7,747	7,747	
2018CPT.12.27.20362	Gaston	7	SR 1902 (MARIPOSA RD)	SR 1820 TO LINCOLN COUNTY LINE	1	2	2WU	0.48	21	84	*						10,330	10,330	
2018CPT.12.27.20362	Gaston	8	SR 1907 (OLD LOWESVILLE RD)	LINCOLN COUNTY LINE TO SR 1820	1	2	2WU	1.17	20	116	*						25,178	25,178	
2018CPT.12.27.20362	Gaston	9	SR 1923 (OLD NC 27 HWY.)	SR 1918 TO BRIDGE	1	2	2WU	4.15	19	180	*						89,308	89,308	
2018CPT.12.27.20362	Gaston	10	SR 2002 (LINEBERGER RD.)	NC 275 TO END MAINT	1	2	2WU	0.79	20	84	*						17,001	17,000	
TOTAL FOR PROJ NO. 2018CPT.12.27.20362								11.91		1,000	*						248,771	233,461	
482,232																			
2018CPT.12.27.20182	Catawba	11	SR 1134 (BLUE STAR RD)	FROM SR 1131 (PITTSSTOWN RD) TO END MAINT	1	2	2WU	0.74	19	48	*						15,650	15,650	
2018CPT.12.27.20182	Catawba	12	SR 1135 (MENNONITE CH RD)	FROM SR 1138 (WHITENER RD) TO END MAINT	1	2	2WU	0.43	18	24	*						9,100	9,100	
2018CPT.12.27.20182	Catawba	13	SR 1288 (YODER FARM RD)	FROM SR 1138 (WHITENER RD) TO END MAINT	1	2	2WU	0.63	18	24	*						13,310	13,310	
2018CPT.12.27.20182	Catawba	14	SR 2033 (WESLEY CHAPEL RD)	FROM NC 10 TO SR 2030 (GRACE CH RD)	1	2	2WU	1.45	19	48	*						30,650	30,650	
2018CPT.12.27.20182	Catawba	15	SR 2024 (REEPSVILLE RD)	FROM SR 1008 (HICKORY-LINCOLNTON HWY) TO LINCOLN CO	1	2	2WU	2.77	19	96	*						58,550	58,550	
2018CPT.12.27.20182	Catawba	16	SR 2025 (LEATHERMAN RD)	FROM SR 2026 TO LINCOLN CO	1	2	2WU	0.85	20	48	*						17,975	17,975	
2018CPT.12.27.20182	Catawba	17	SR 2078 (ZONNIE SCRONCE RD)	FROM SR 2026 (MACEDONIA CH RD) TO END MAINT	1	2	2WU	0.4	20	24	*						8,450	8,450	
2018CPT.12.27.20182	Catawba	18	SR 2022 (HERTER RD)	FROM SR 2021 (BLACKBURN BRIDGE RD) TO LINCOLN CO	1	2	2WU	1.63	20	48	*						34,450	34,450	
2018CPT.12.27.20182	Catawba	19	SR 2009 (H&W FARM RD)	FROM SR 1005 (STARTOWN RD) TO END MAINT	1	2	2WU	0.8	20	24	*								
2018CPT.12.27.20182	Catawba	20	SR 2114 (ELBOW RD)	FROM SR 1005 (STARTOWN RD) TO DEAD END	1	2	2WU	1.49	24	24	*						31,500	31,500	
2018CPT.12.27.20182	Catawba	21	SR 2004 (SALEM CH RD)	FROM SR 2003 (GOLF COURSE RD) TO LINCOLN CO	1	2	2WU	1.35	18	72	*	100	50	4			28,520	28,520	2
2018CPT.12.27.20182	Catawba	22	SR 1881 (SIFE RD)	FROM SR 1880 (MAYS CHAPEL CH RD) TO SR 1882 (JACK WHITENER RD)	1	2	2WU	1.12	18	48	*						23,675	23,675	
2018CPT.12.27.20182	Catawba	23	SR 1879 (FRED BEARD RD)	FROM SR 1880 (MAYS CHAPEL CH RD) TO SR 1810 (PROVIDENCE MILL RD)	1	2	2WU	0.49	18	48	*						10,350	10,350	
2018CPT.12.27.20182	Catawba	24	SR 1878 (CAMPBELL RD)	FROM SR 1880 (ST JAMES CH RD) TO SR 1810 (PROVIDENCE MILL RD)	1	2	2WU	0.52	18	48	*						11,000	11,000	
2018CPT.12.27.20182	Catawba	25	SR 1866 (DAVIS RD)	FROM SR 1003 (BUFFALO SHOALS RD) TO SR 1874 (WATER PLANT RD)	1	2	2WU	1.27	20	48	*						26,850	26,850	
2018CPT.12.27.20182	Catawba	26	SR 1876 (MT RUHAMA CH RD)	FROM SR 1858 (N OLIVERS CROSSROADS) TO NC 16	1	2	2WU	1.61	18	48	*						34,050	34,050	
2018CPT.12.27.20182	Catawba	27	SR 1812 (WINSLOW RD)	FROM SR 1810 (BALLS CREEK RD) TO CUL-DE-SAC	1	2	2WU	0.7	18	24	*								
2018CPT.12.27.20182	Catawba	28	SR 1811 (EDWARDS RD)	FROM SR 1810 (BALLS CREEK RD) TO END MAINT	1	2	2WU	1.05	19	24	*						22,200	22,200	
2018CPT.12.27.20182	Catawba	29	SR 1821 (SHILOH RD)	FROM SR 1003 (BUFFALO SHOALS RD) TO NC 10	1	2	2WU	2.41	19	120	*		80	12			50,900	50,900	2
2018CPT.12.27.20182	Catawba	30	SR 2327 (JA YOUNT FARM RD)	FROM SR 1484 (COUNTY HOME RD) TO END MAINT	1	2	2WU	0.836	19	24	*						17,660	17,660	
2018CPT.12.27.20182	Catawba	31	SR 1700 (RIVERBEND RD)	FROM NC 16 TO SR 1703 (SHELL HOLLAR RD)	1	2	2WU	2.35	19	72	*						49,650	49,650	
2018CPT.12.27.20182	Catawba	32	SR 1512 (HOUSTON MILL RD)	FROM SR 1486 (LEE CLINE RD) TO SR 1515 (SWINGING BRIDGE RD)	1	2	2WU	1.64	19	48	*						34,650	34,650	
TOTAL FOR PROJ NO. 2018CPT.12.27.20182								26.536		1,032	*	100	130	4	12	529,140	529,140	4	
1,058,280																			
GRAND TOTAL								38.446		2,032	1	100	130	4	12	777,911	762,601	4	
1,540,512																			

SIGNING FOR ASPHALT SURFACE TREATMENT

LEGEND

- ▷ PORTABLE SIGN
- └ STATIONARY SIGN
- ← DIRECTION OF TRAFFIC FLOW



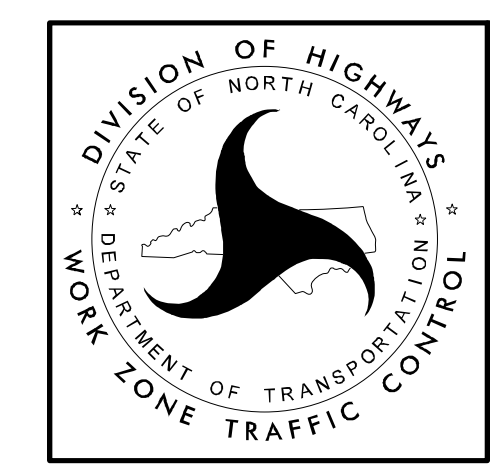
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	<p>1</p> <p>2</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>- SIGN #2 ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO THE NEAREST WHOLE NUMBER. DO NOT USE FRACTIONAL OR DECIMAL NUMBERS.</p>	<p>STATIONARY SIGNING NOT REQUIRED 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> <p>PLACED 500' IN ADVANCE OF FLAGGER.</p> </div> <div> <p>PLACED 250' IN ADVANCE OF FLAGGER.</p> </div> </div>
	<p>3</p>	<p>- ALTERNATE THE FOLLOWING TWO SIGNS:</p> <p>- STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT".</p> <p>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER.</p> <p>- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</p>	
	<p>4</p>	<p>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</p> <p>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</p> <p>- 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.</p> <p>- 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>5</p>	<p>PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.</p>	
	<p>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.</p>		

MAPS LESS THAN 2 MILES

FOR AST RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, USE A STATIONARY "LOOSE GRAVEL" SIGN AT THE BEGINNING CONSTRUCTION LIMIT FOLLOWED BY AN "UNMARKED PAVEMENT" SIGN MIDWAY THROUGH AND AN "END ROAD WORK" SIGN AT THE END CONSTRUCTION LIMIT.



ADVANCE WARNING SIGNS FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMENT

5/12/2017 S:\TUXWZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln - AST.dgn User:kdais