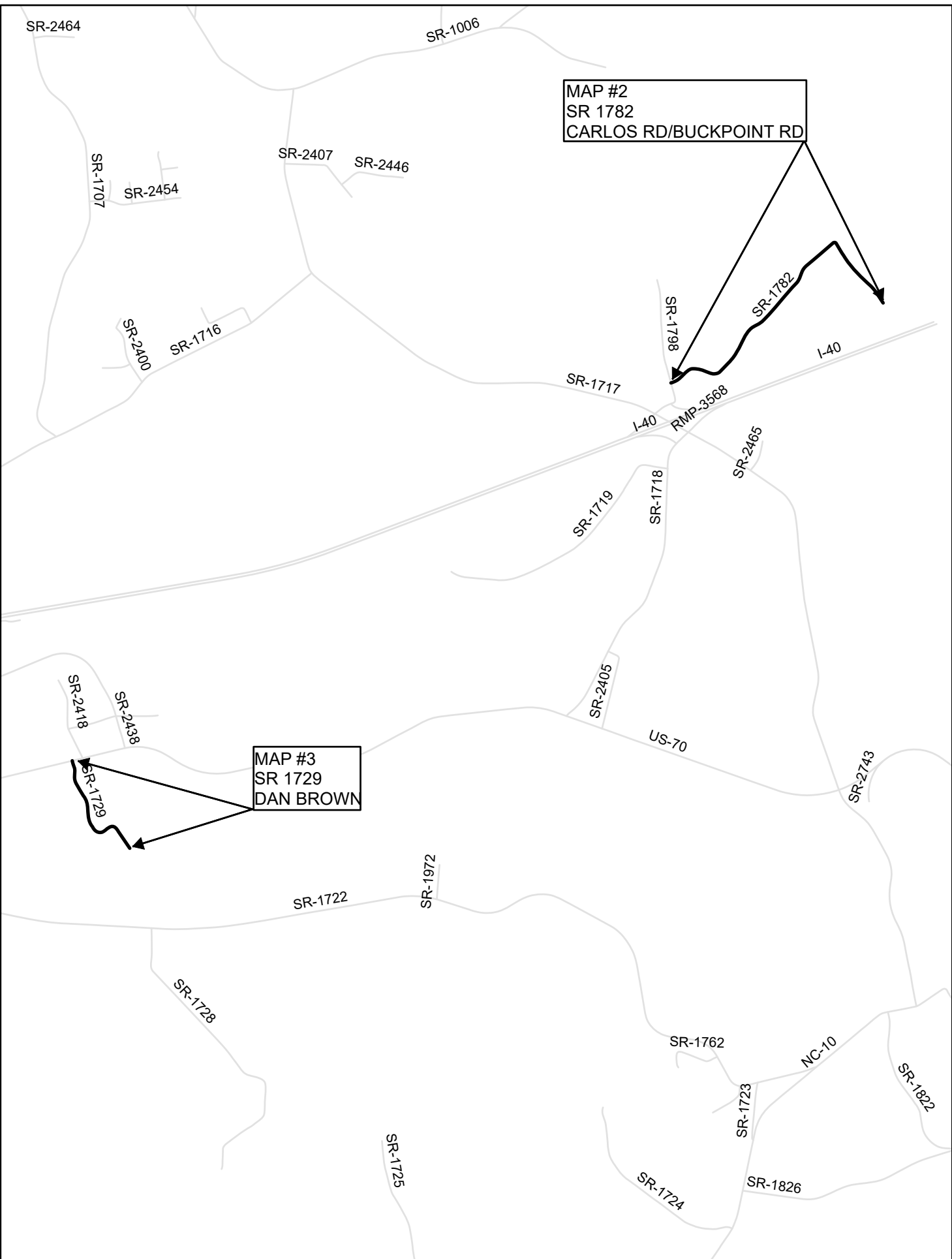
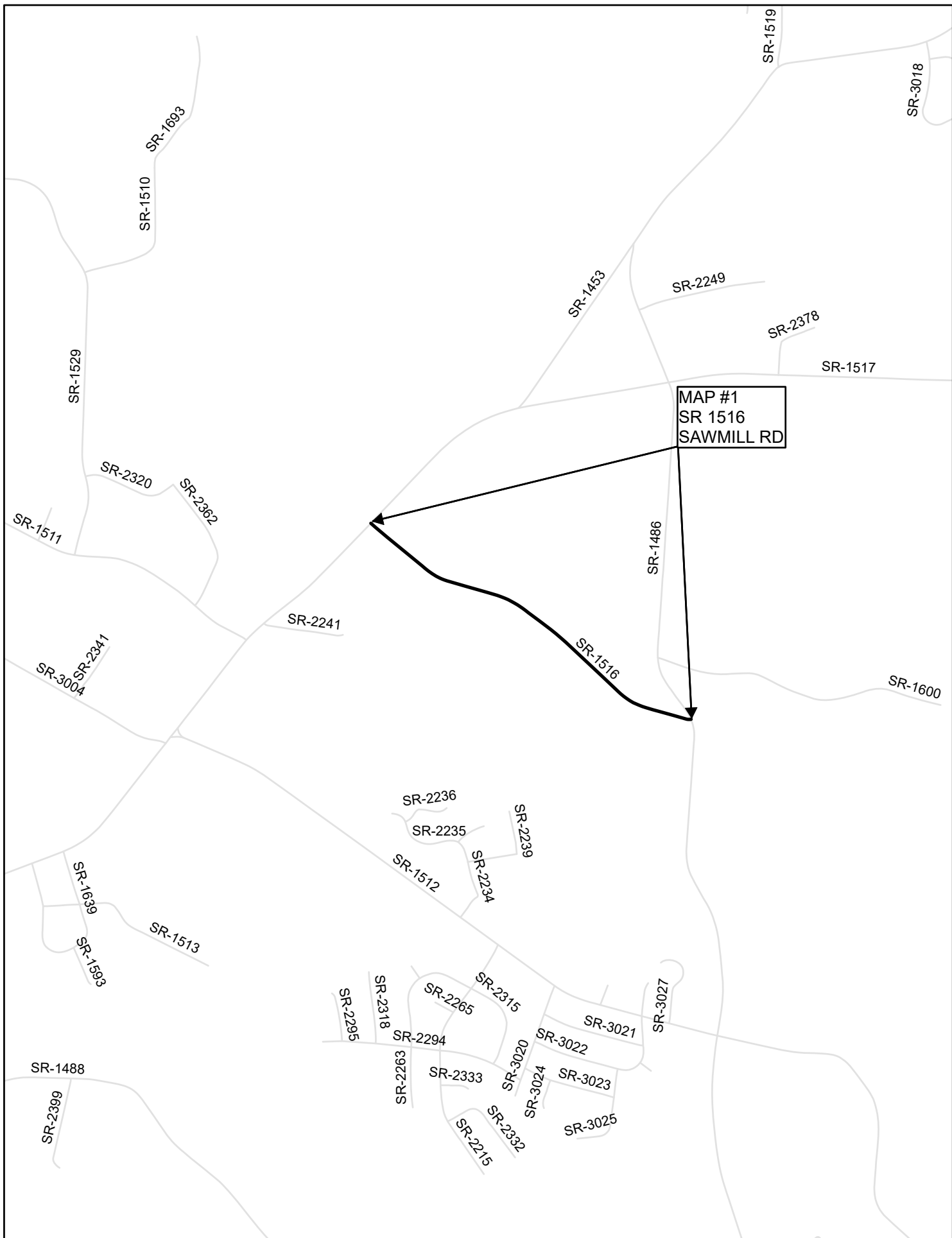
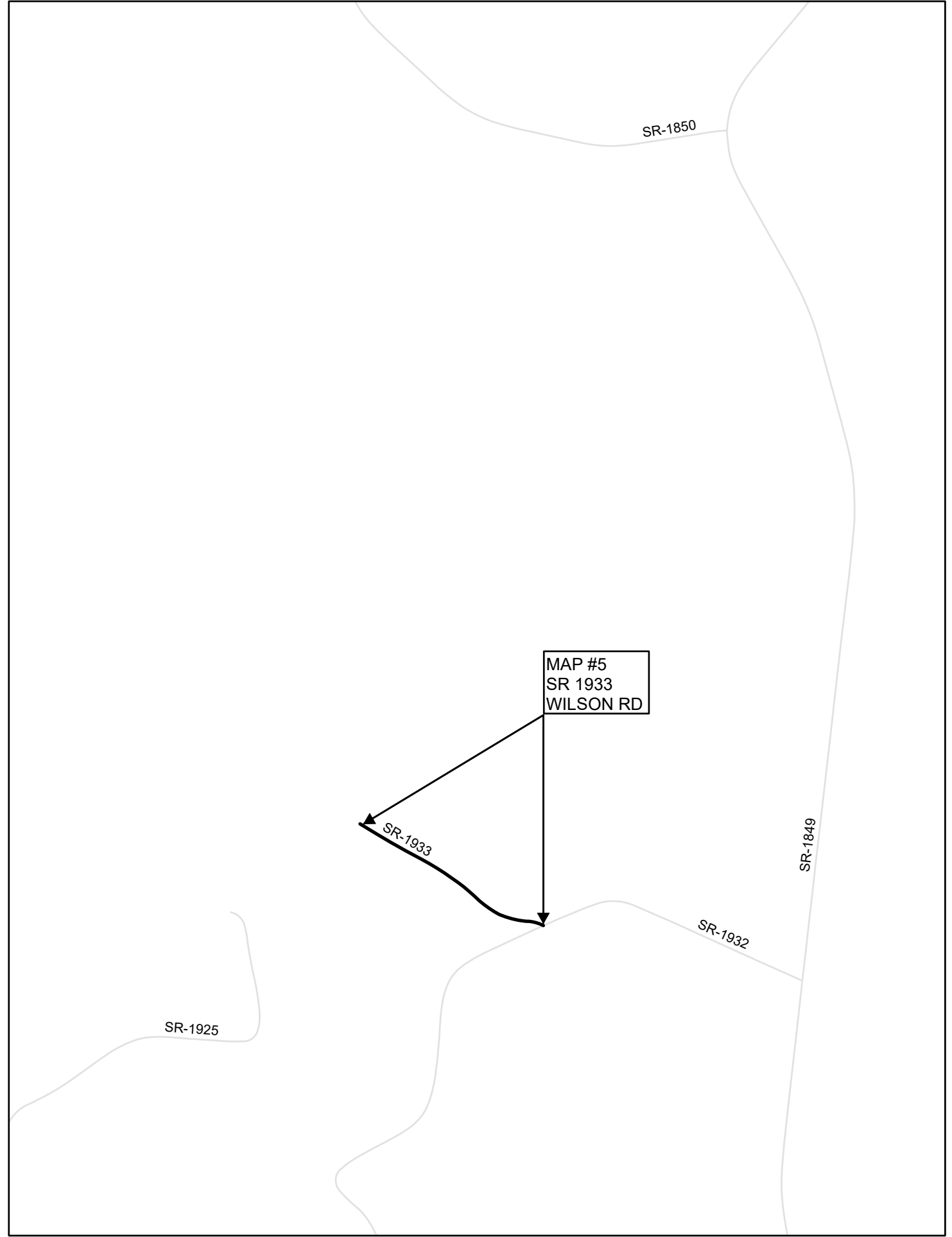
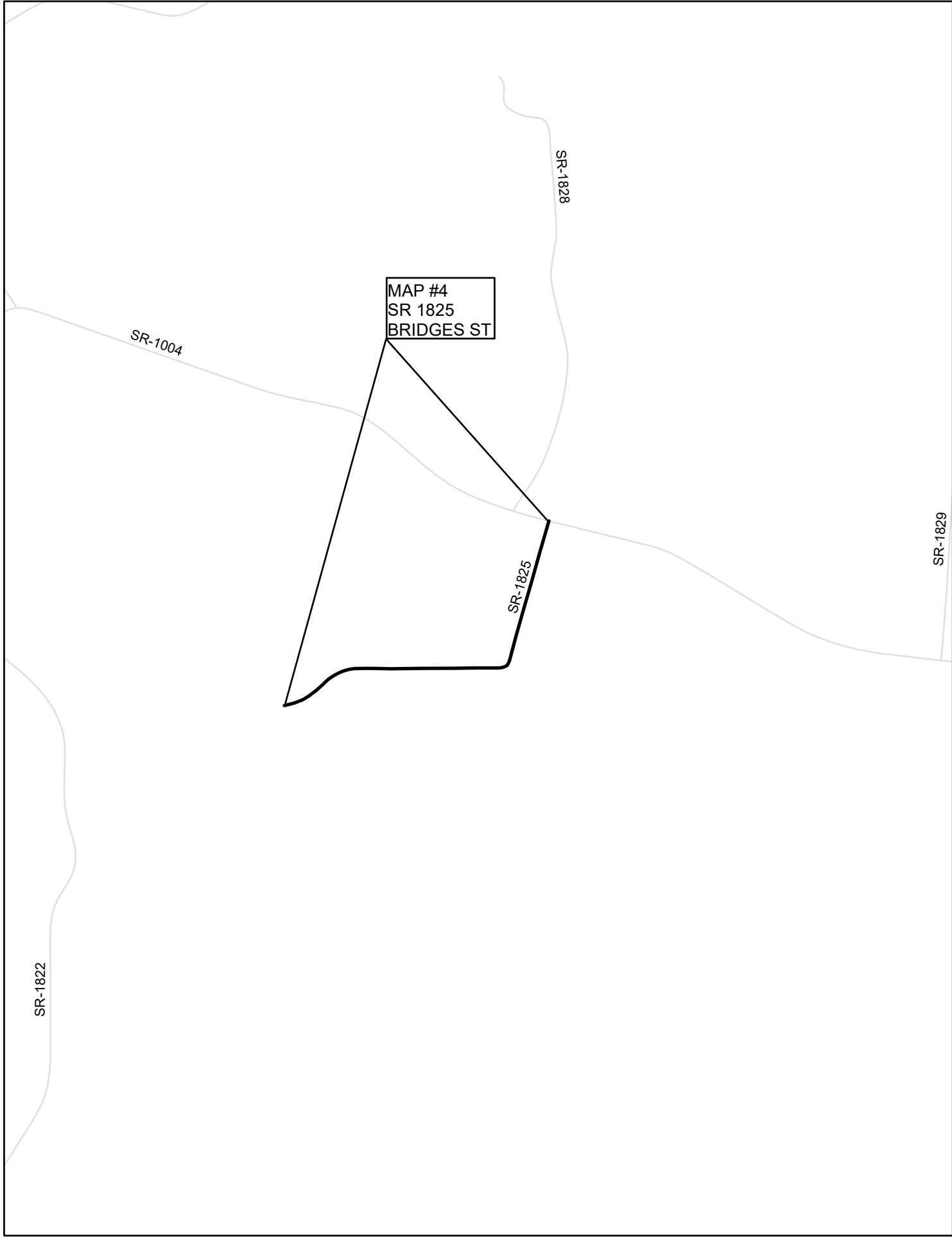


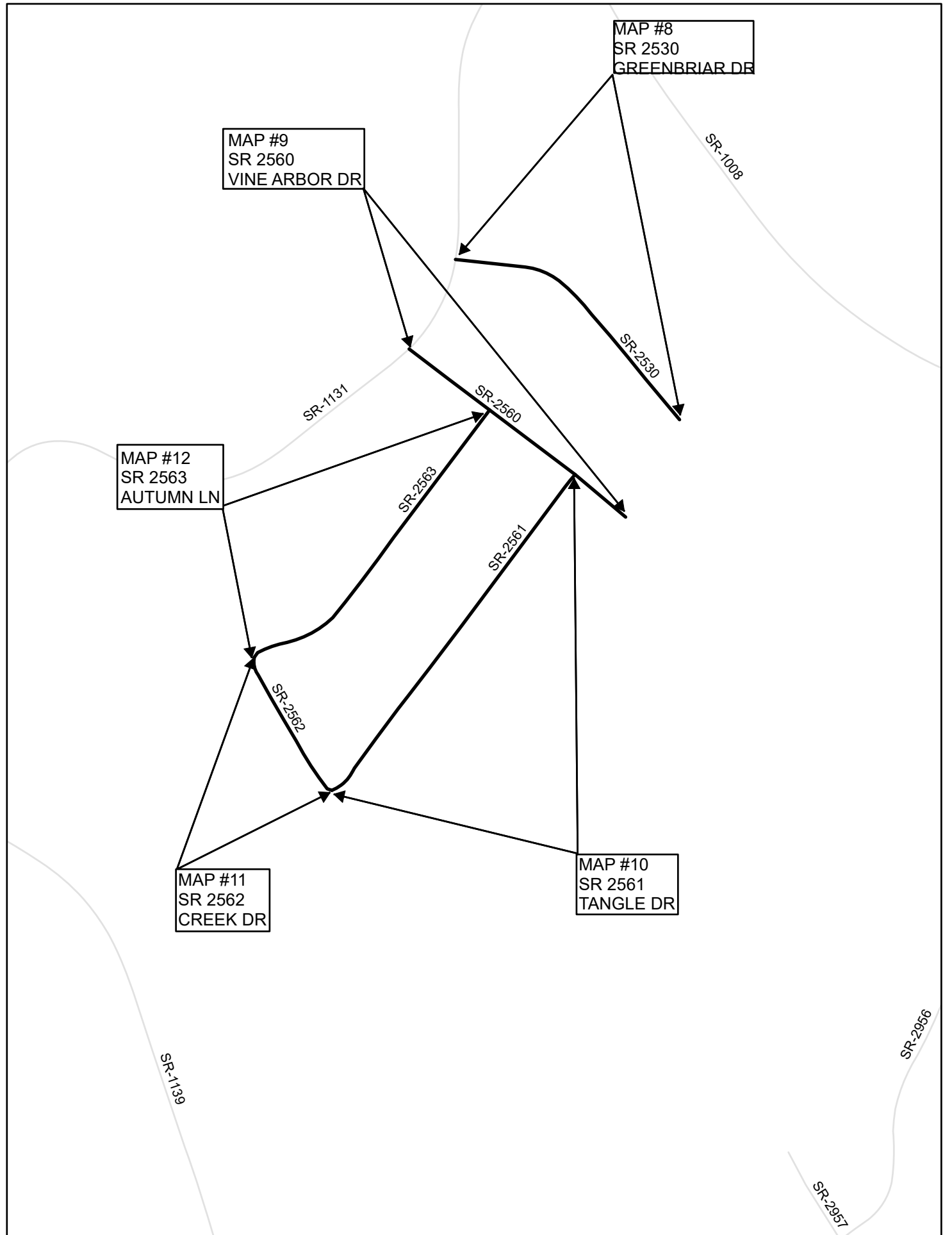
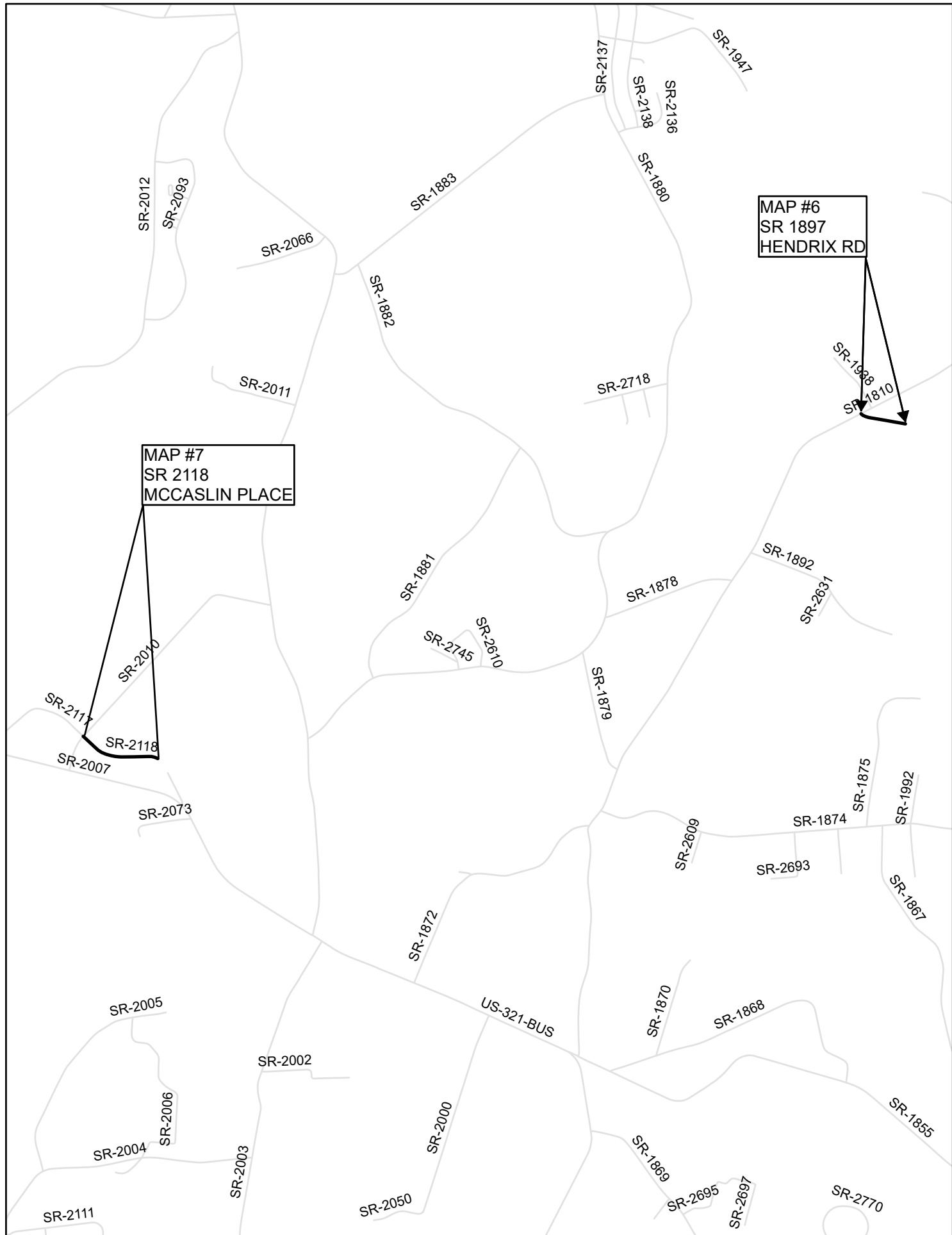
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and is Not a Certified Document –**

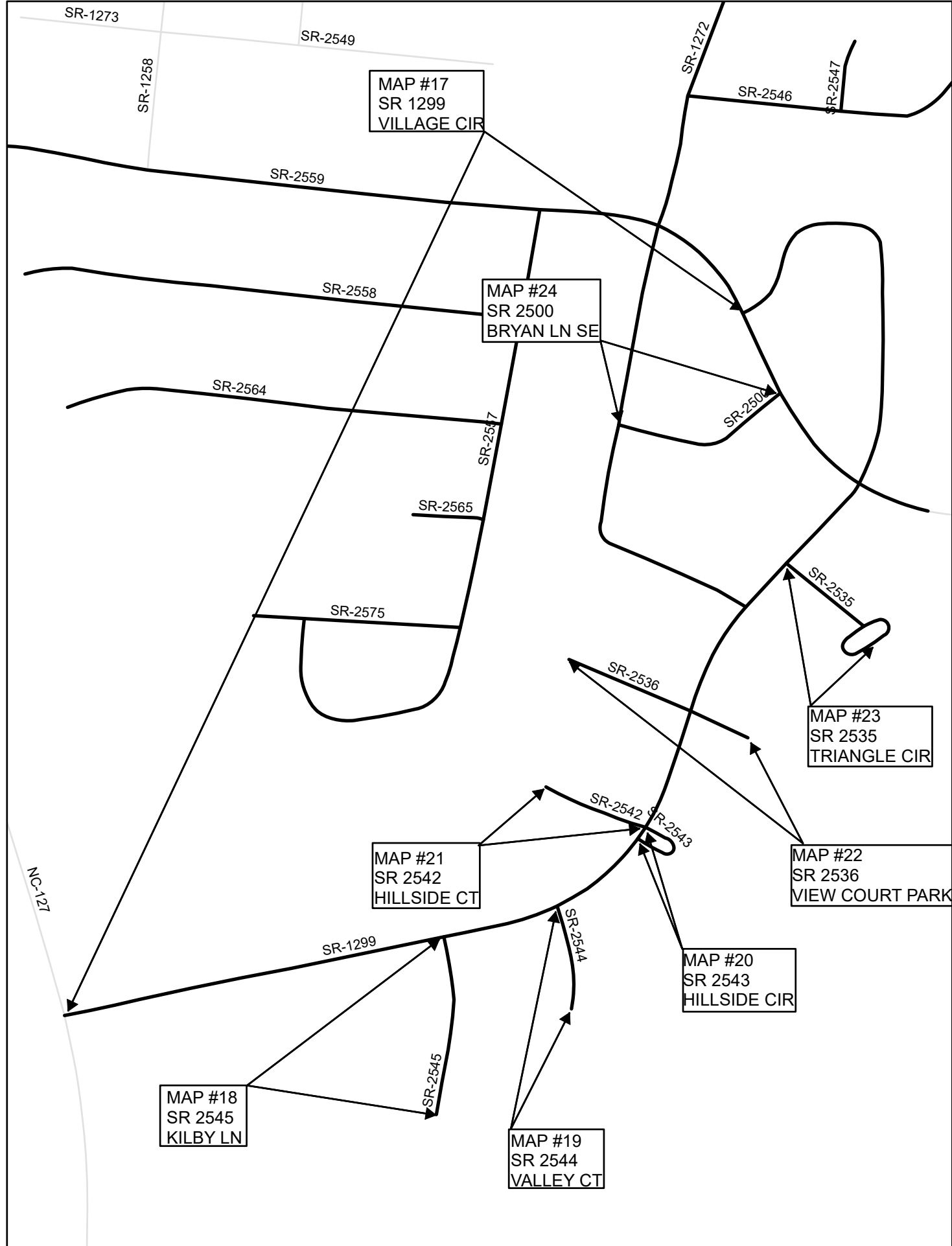
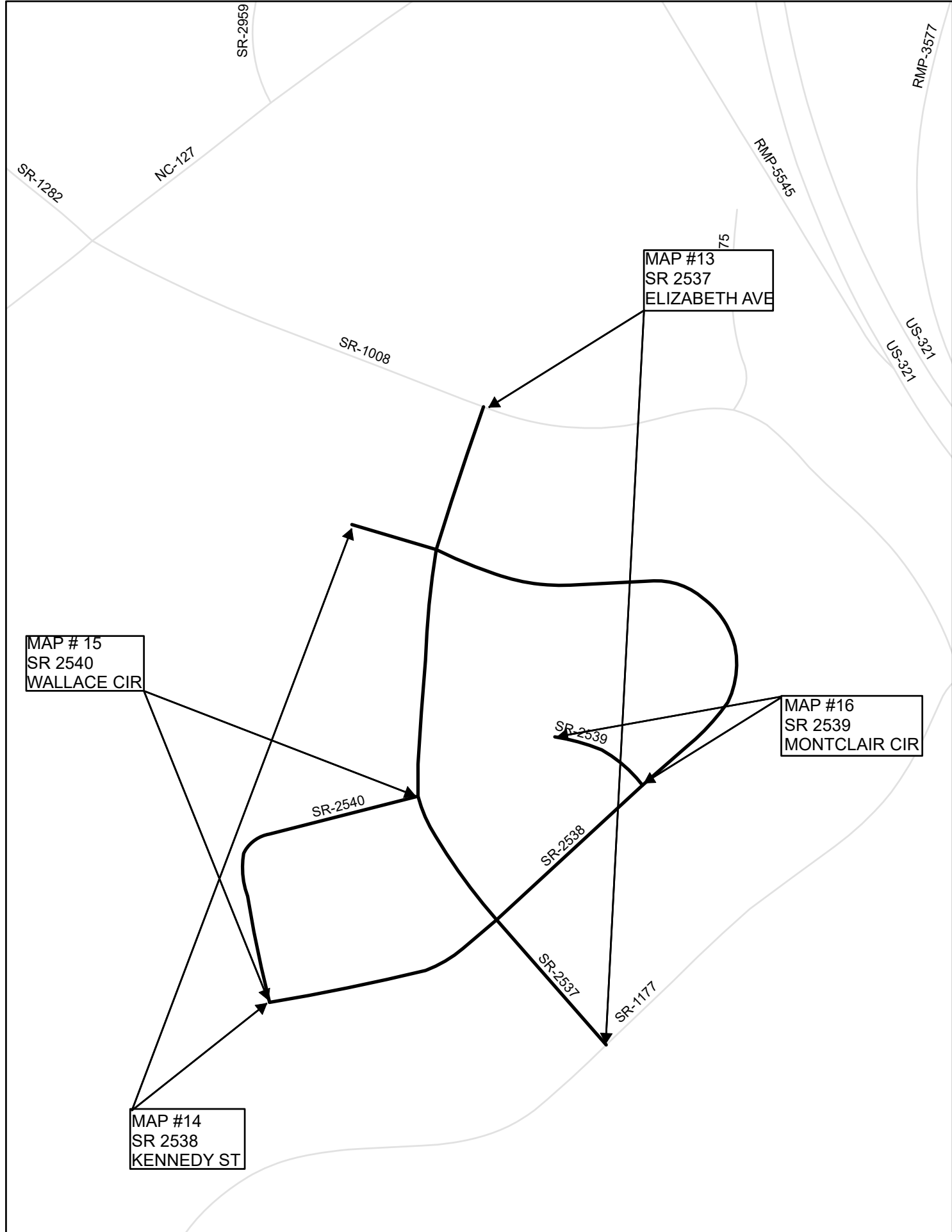
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and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

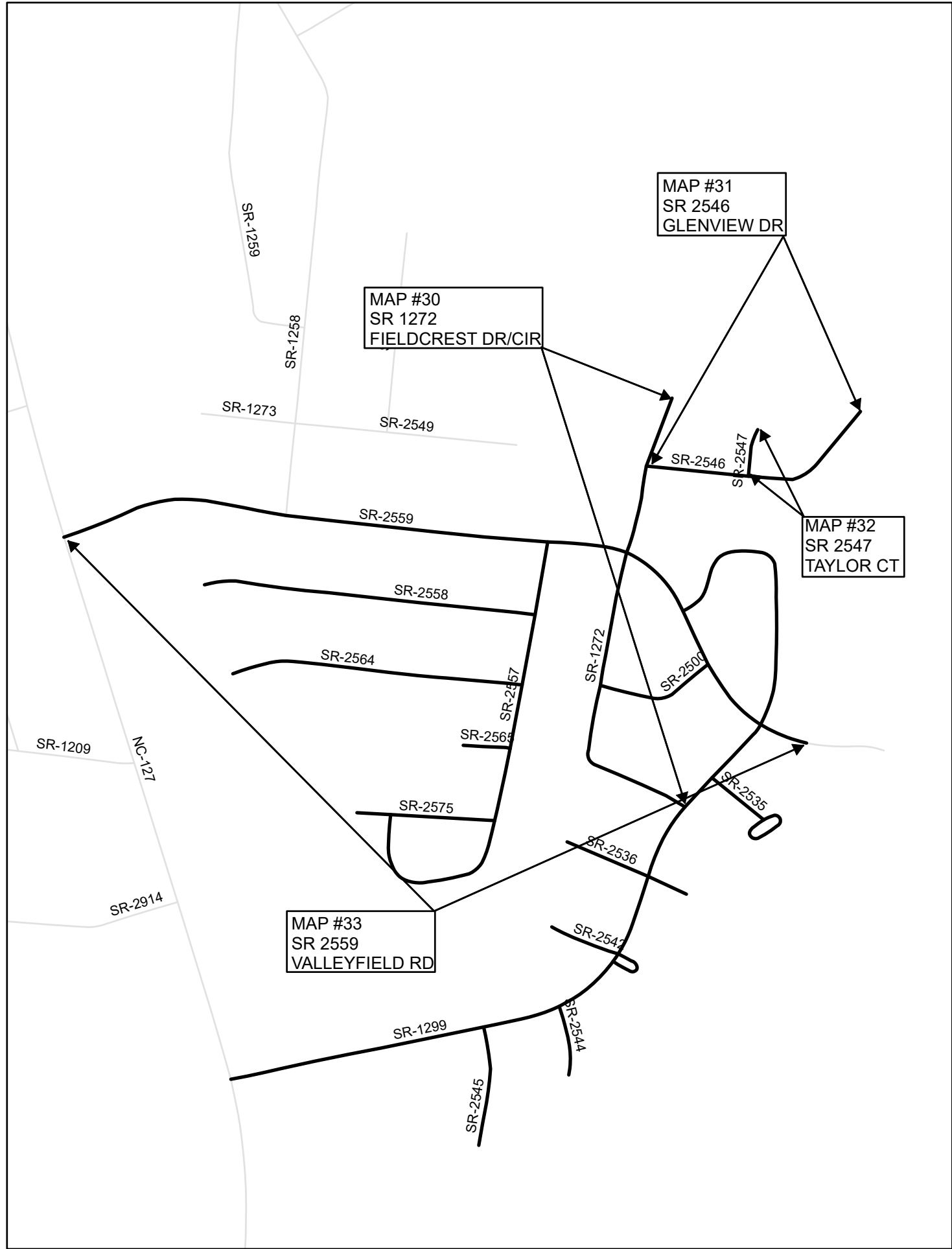
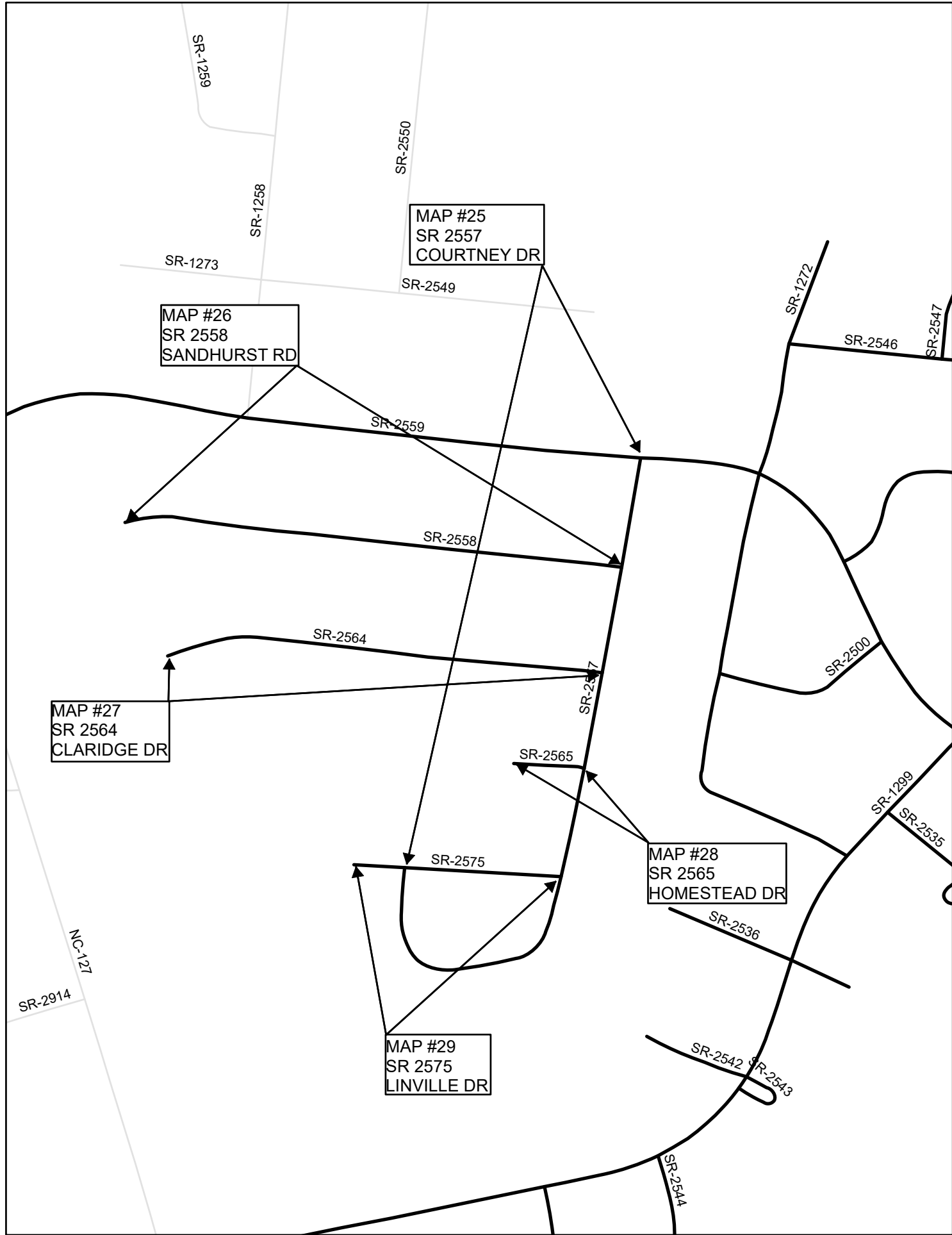
**This file or an individual page
shall not be considered a certified document.**

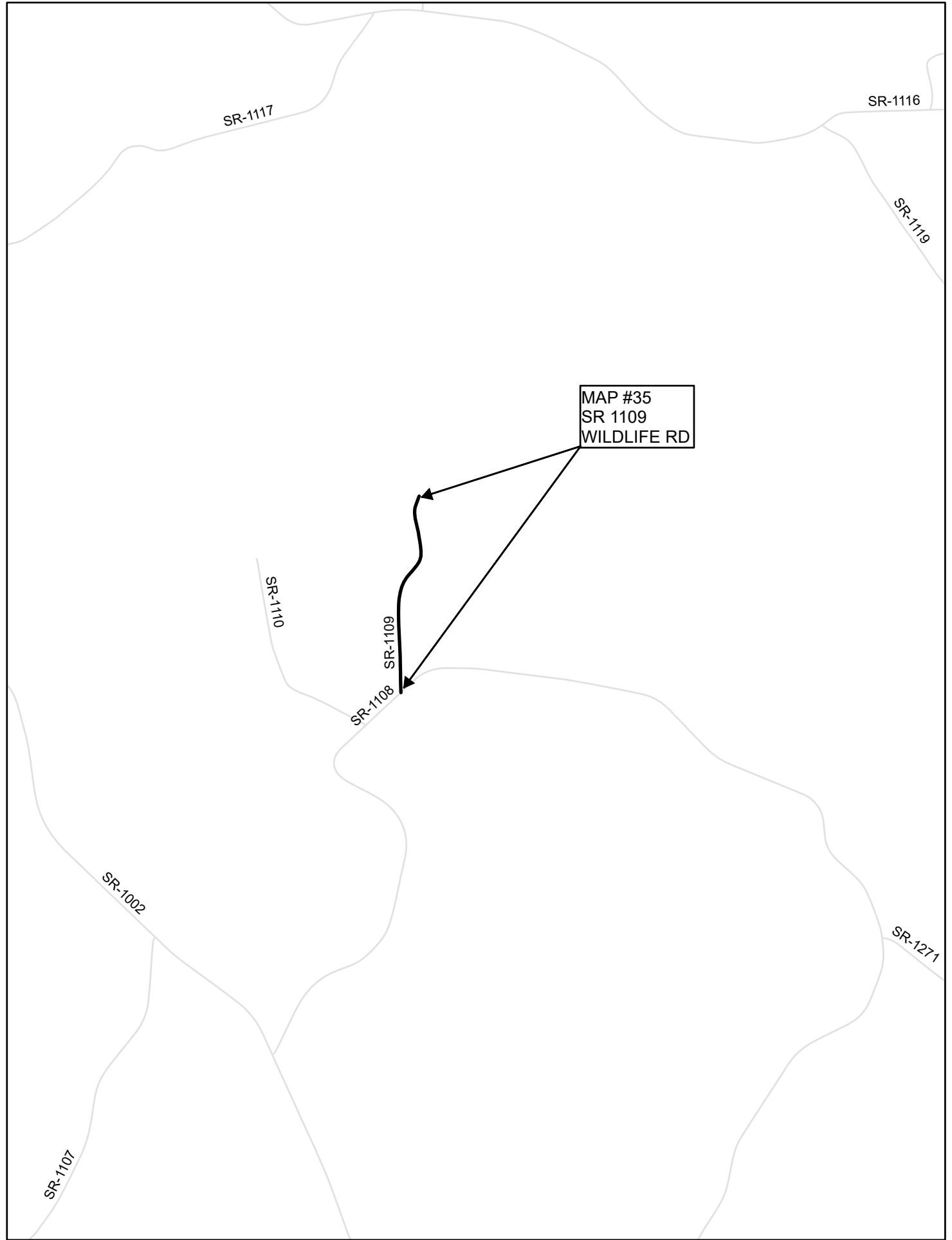
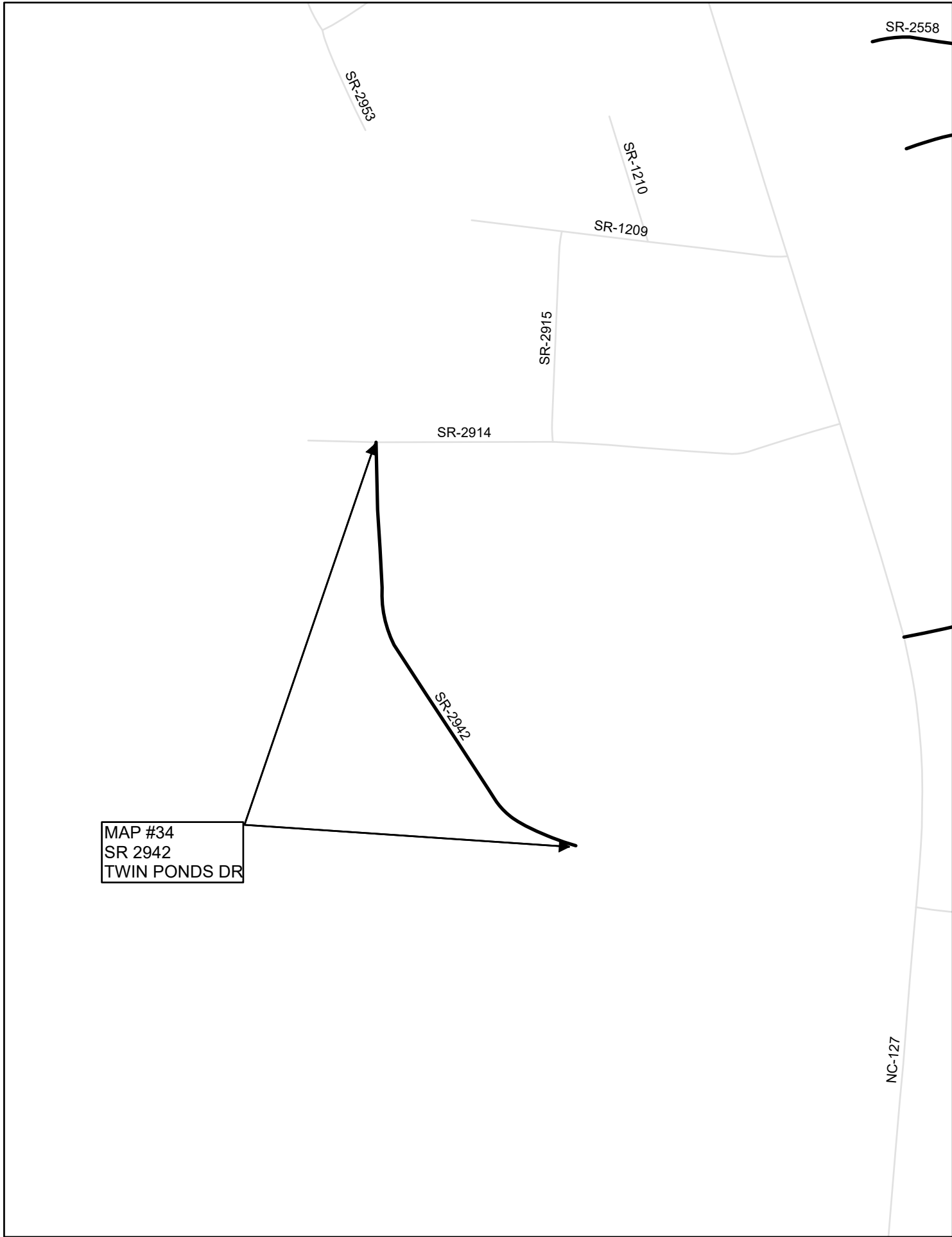


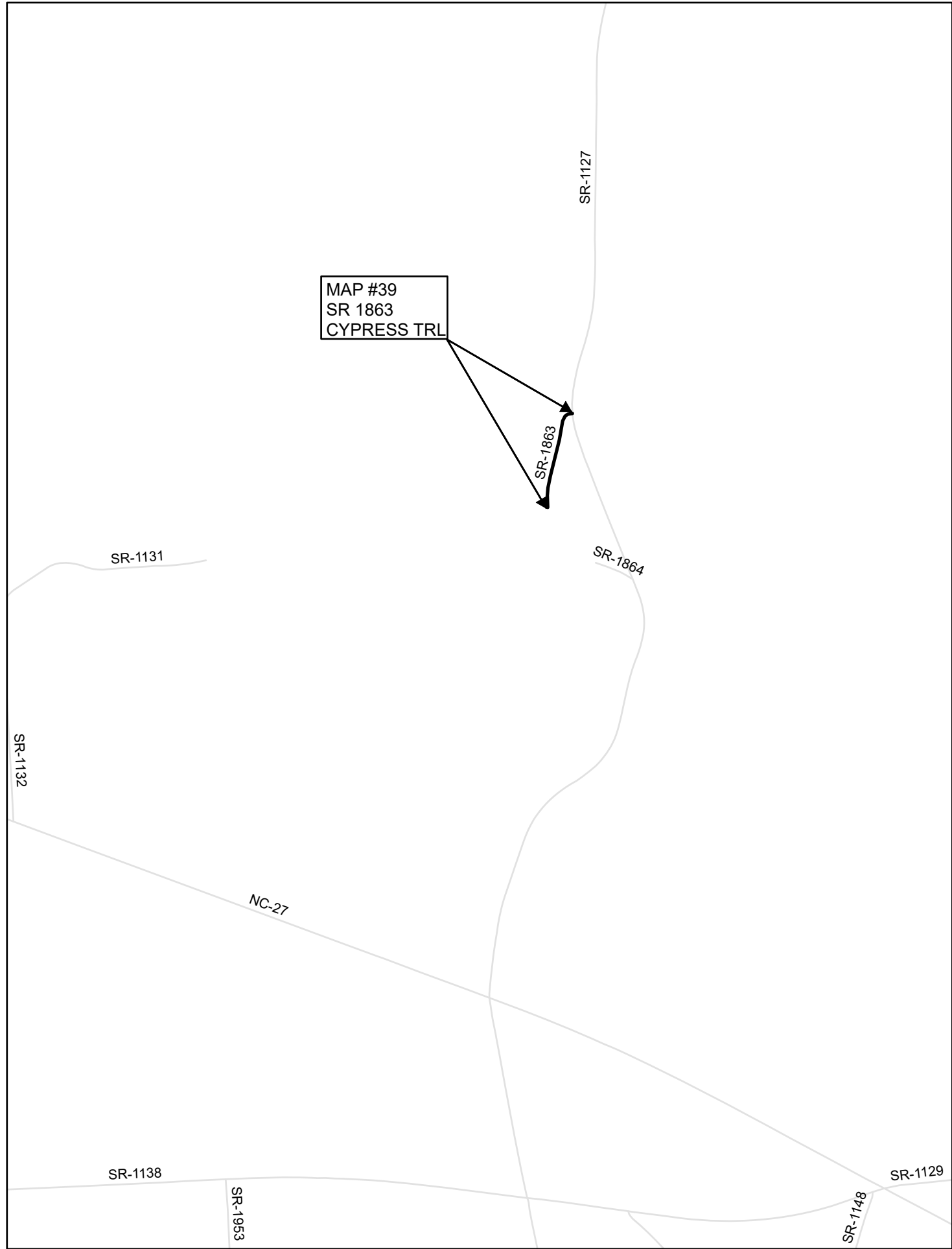
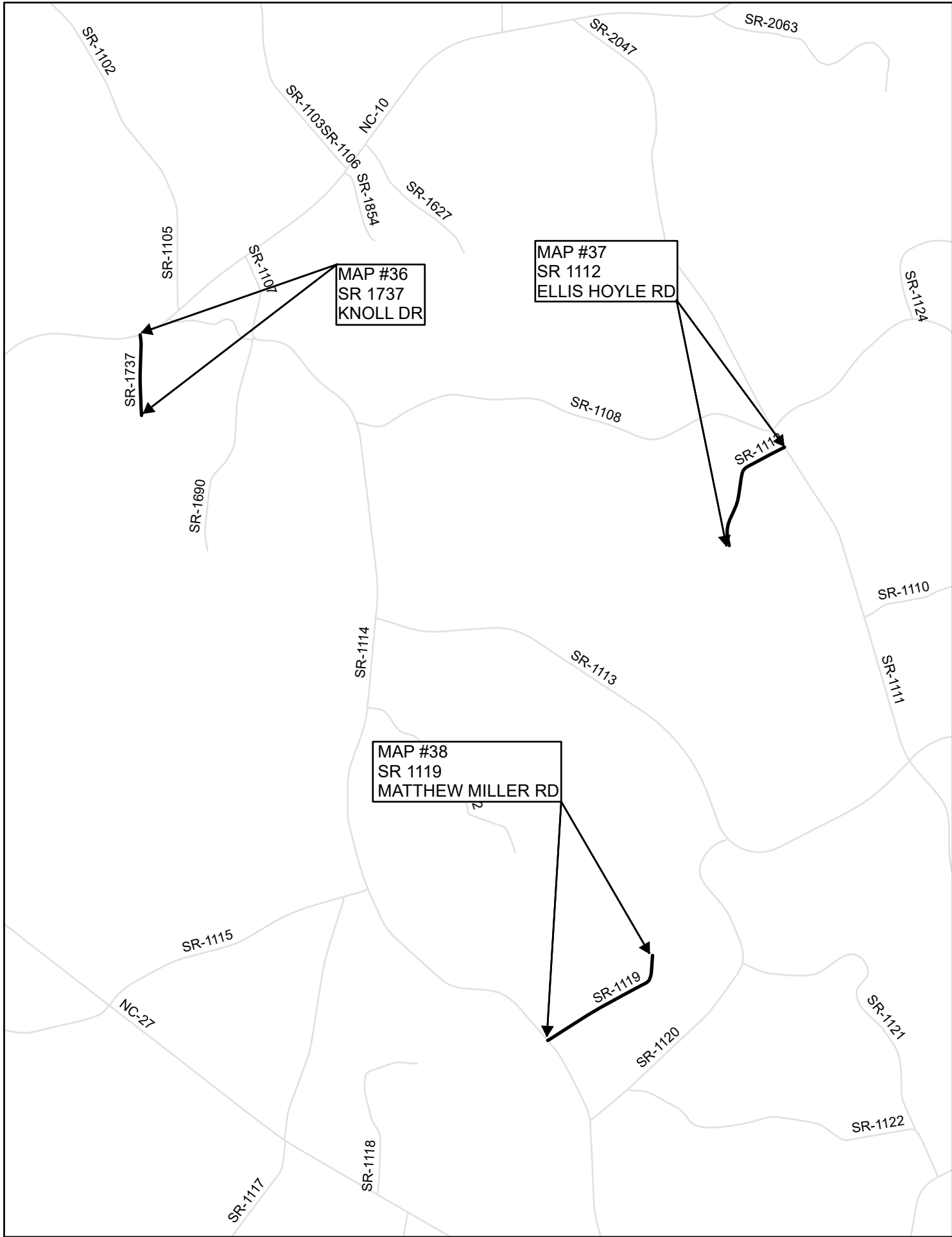


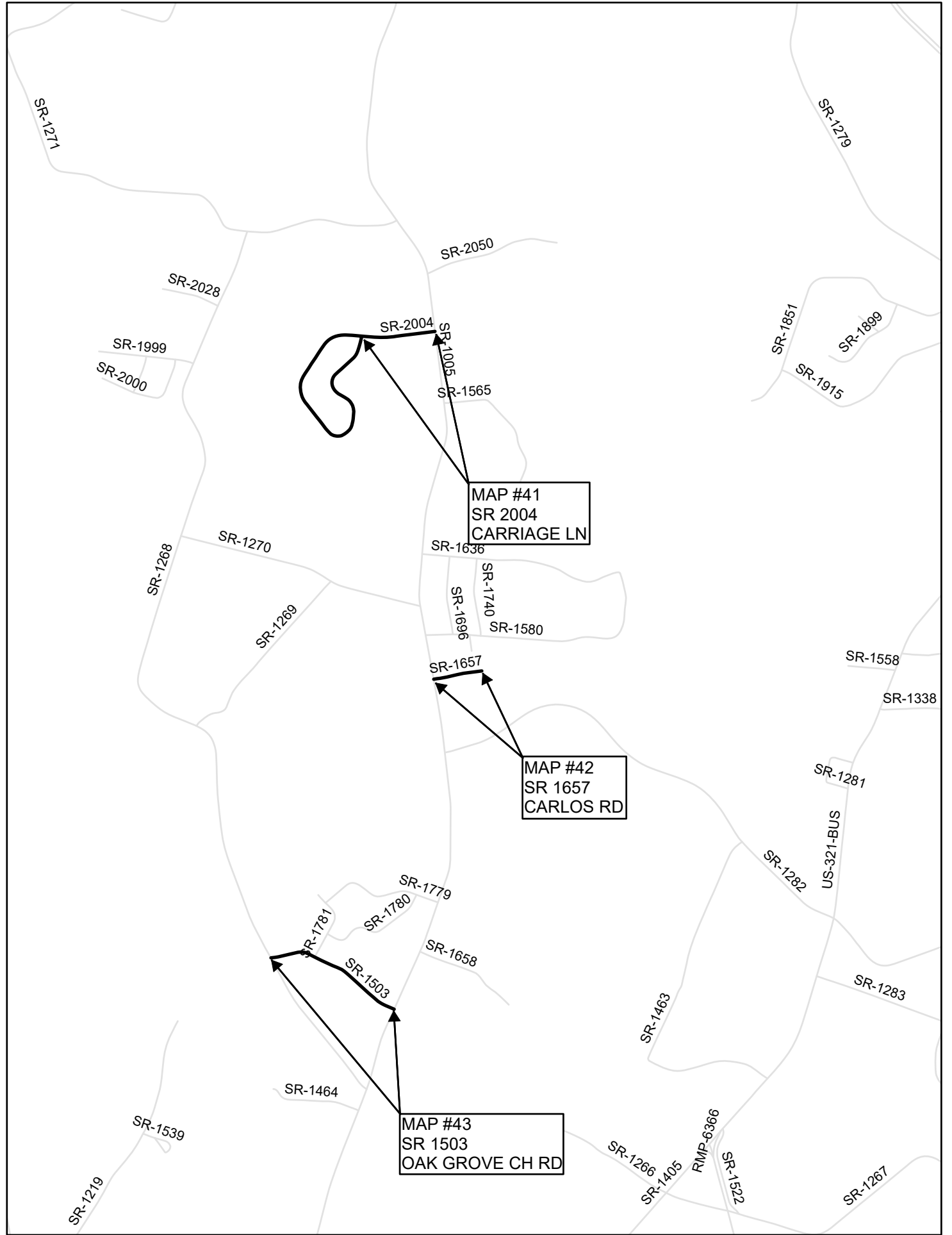
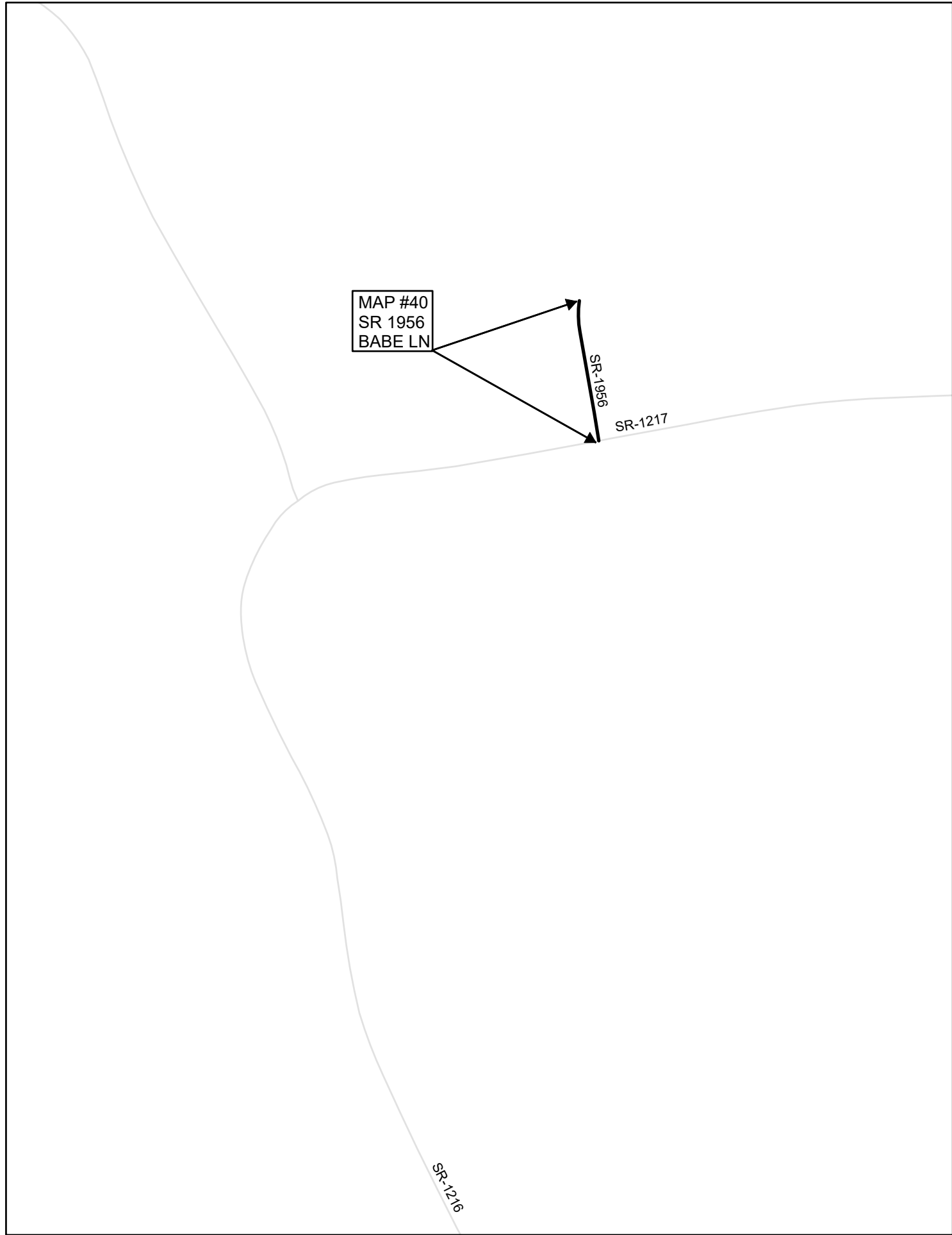


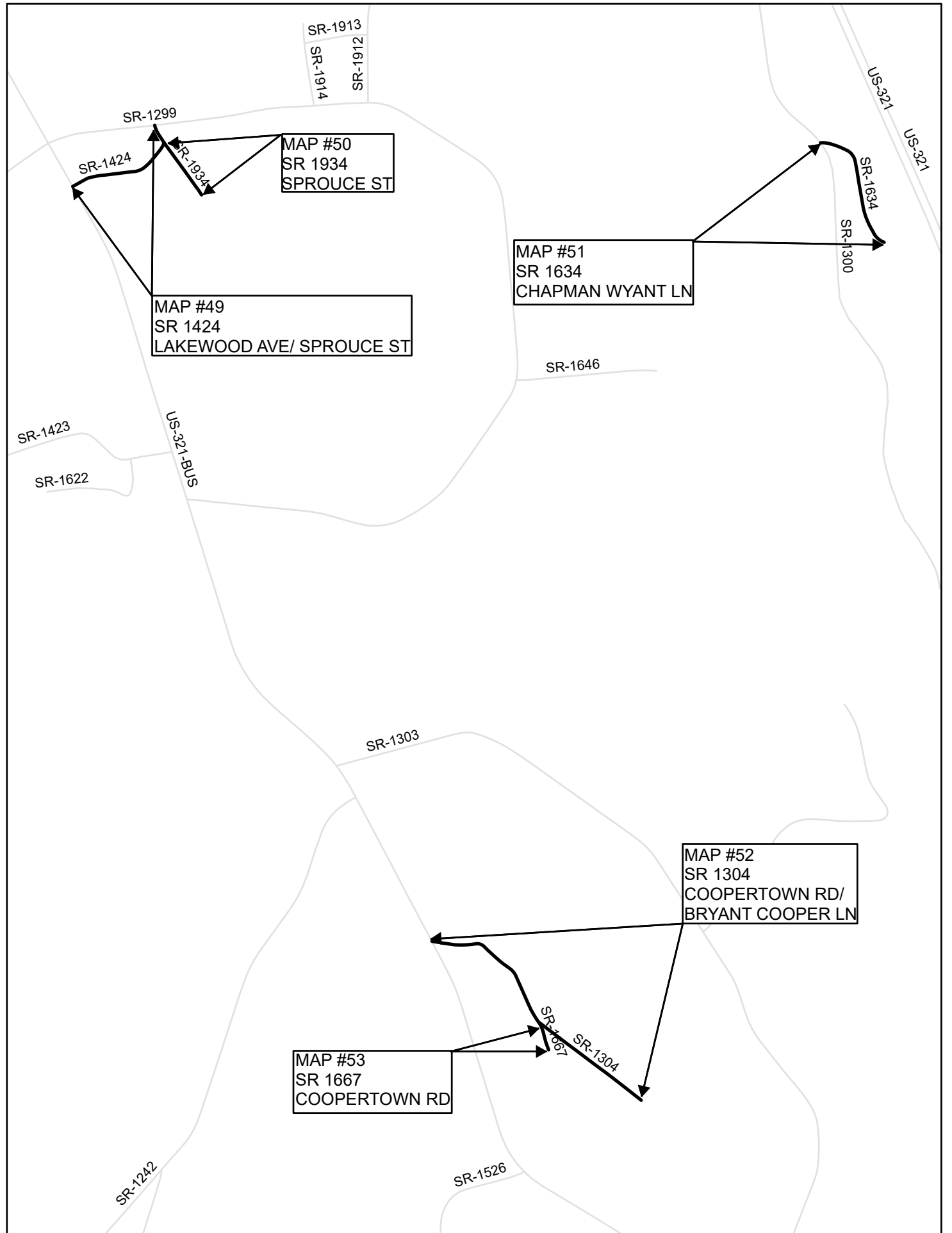
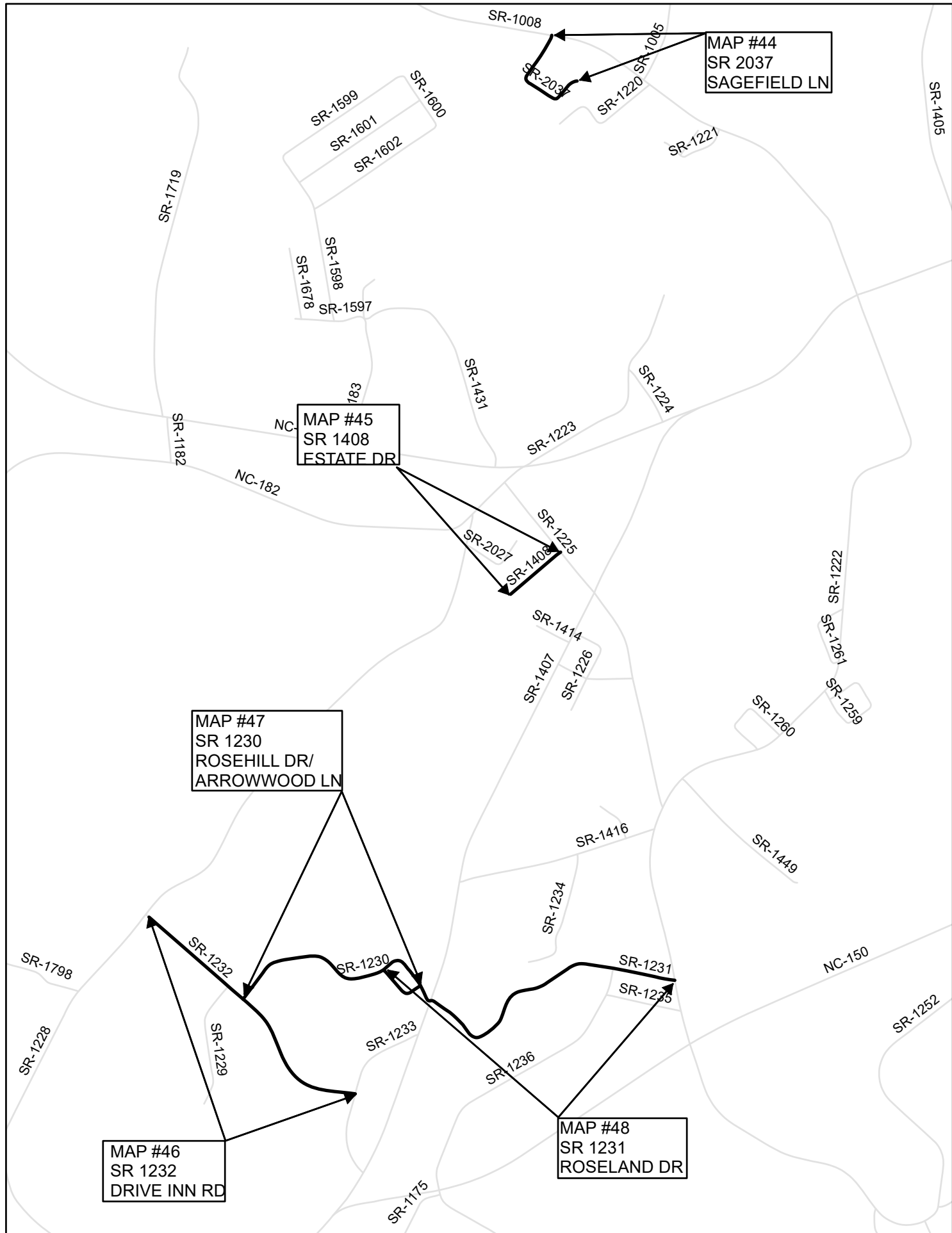


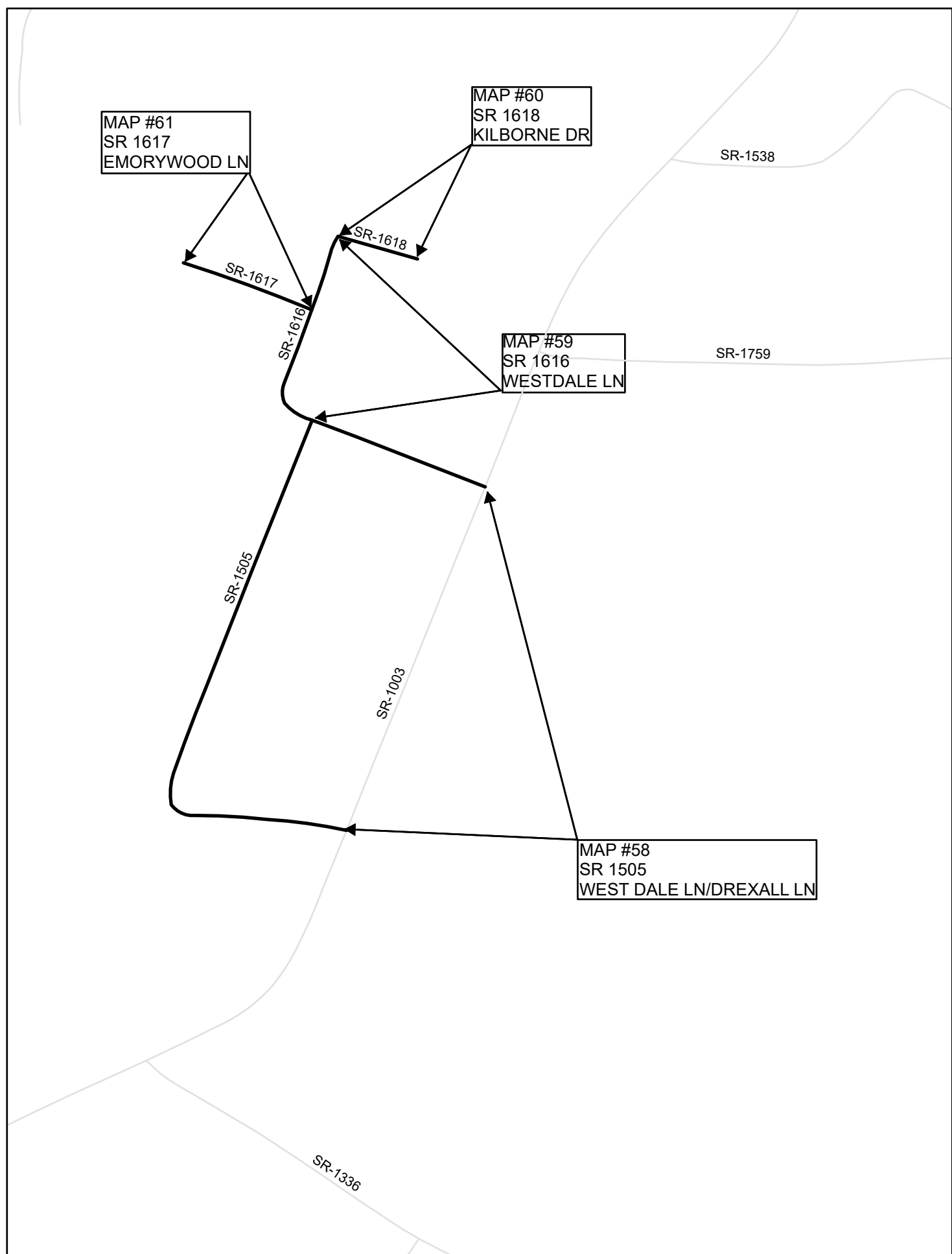
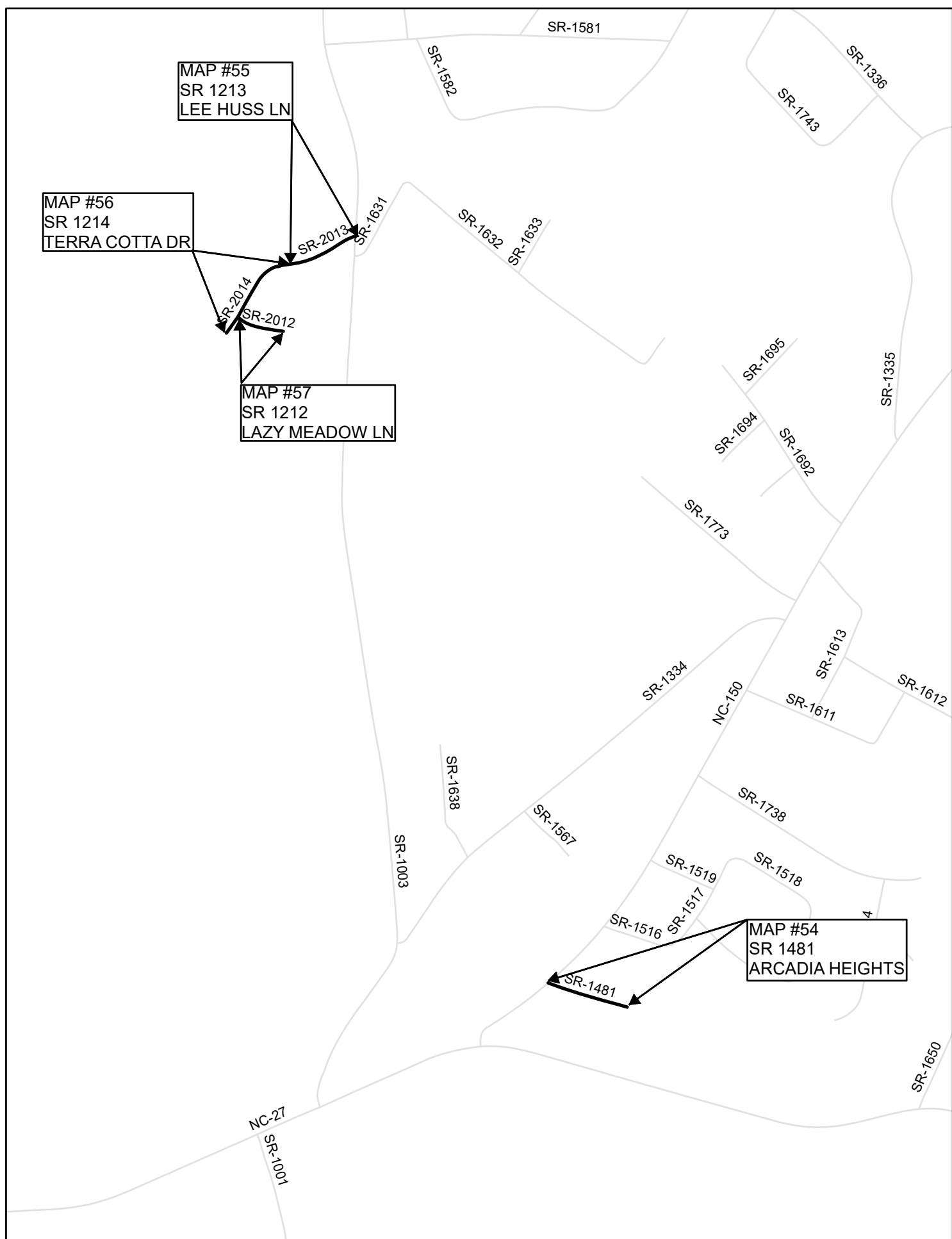


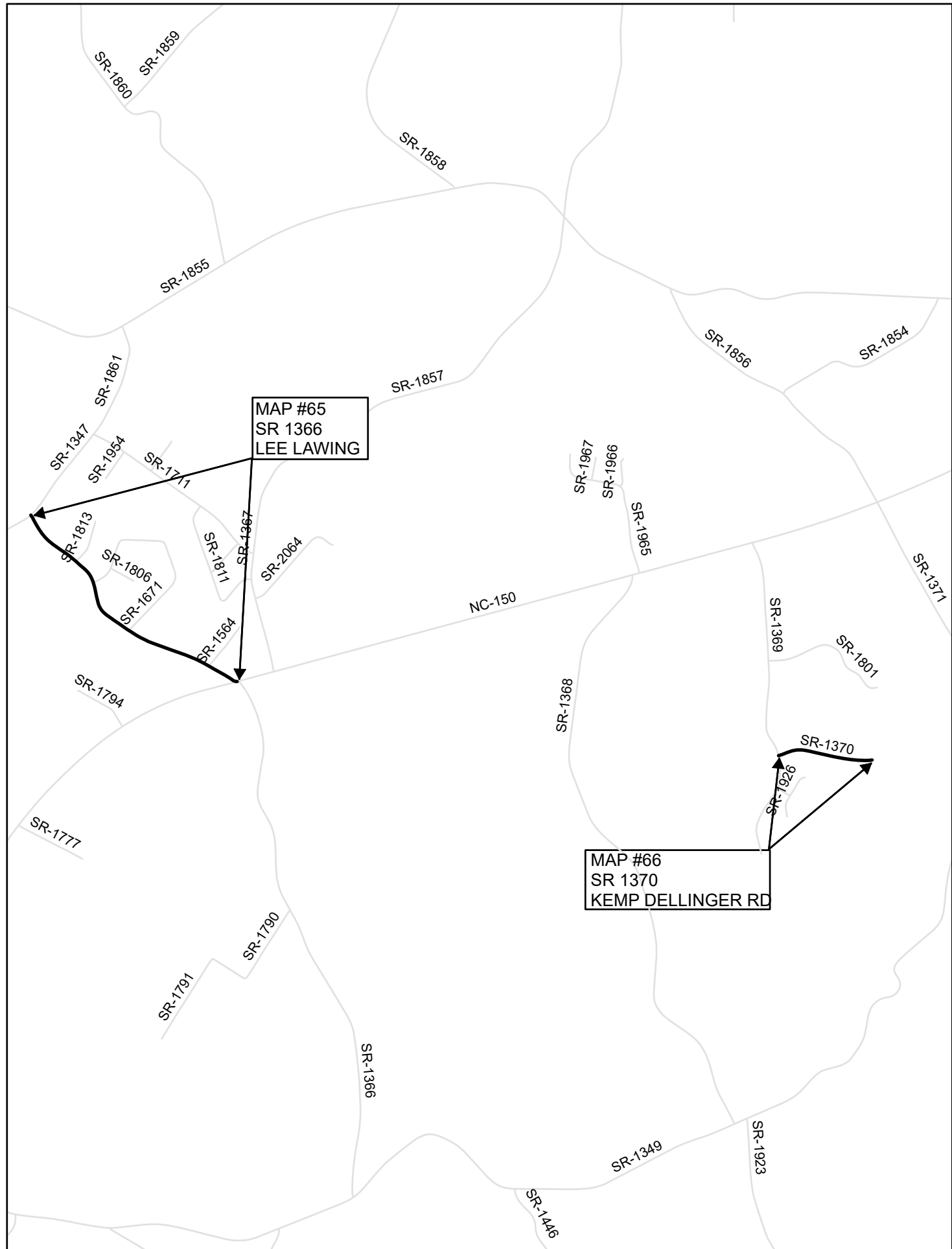
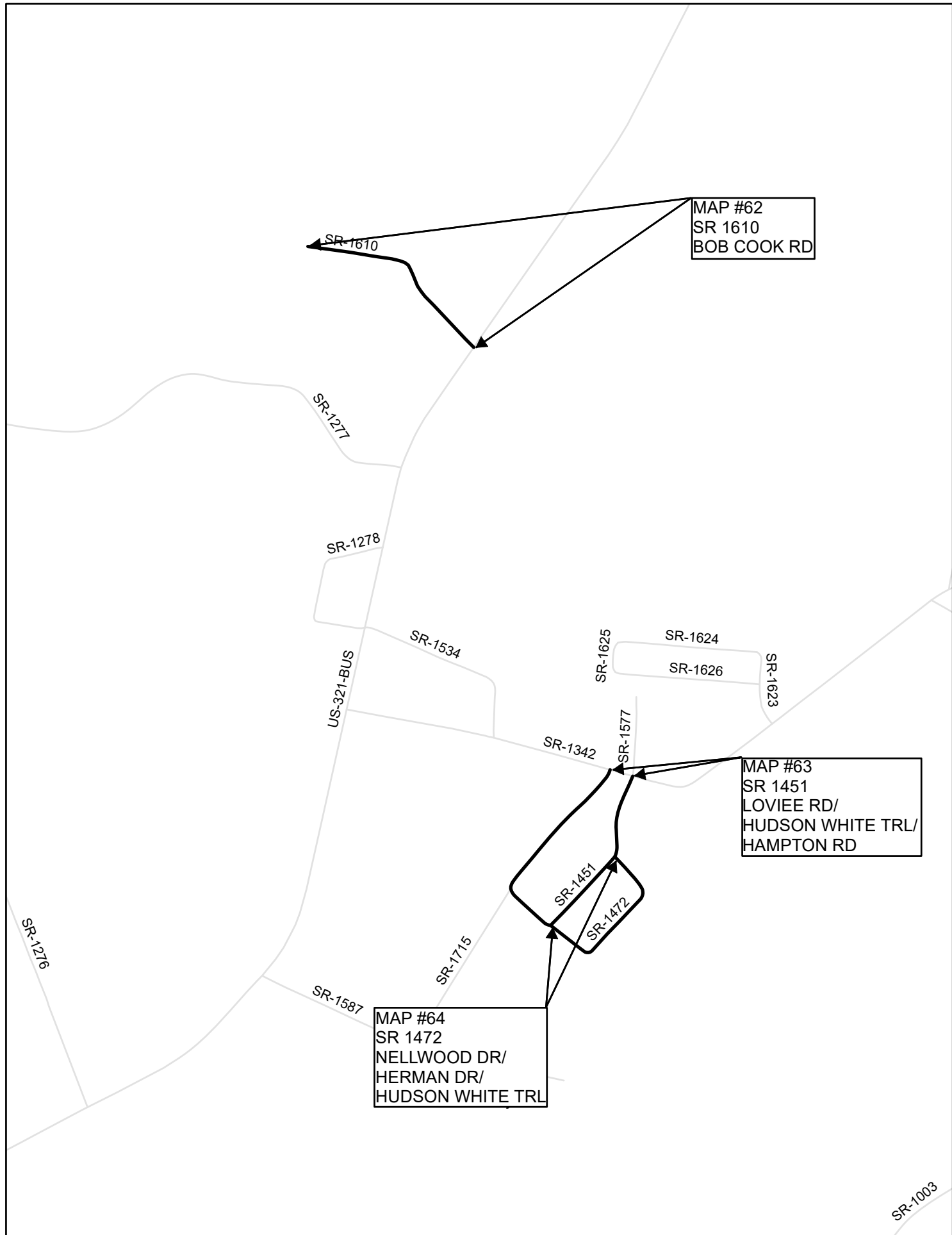


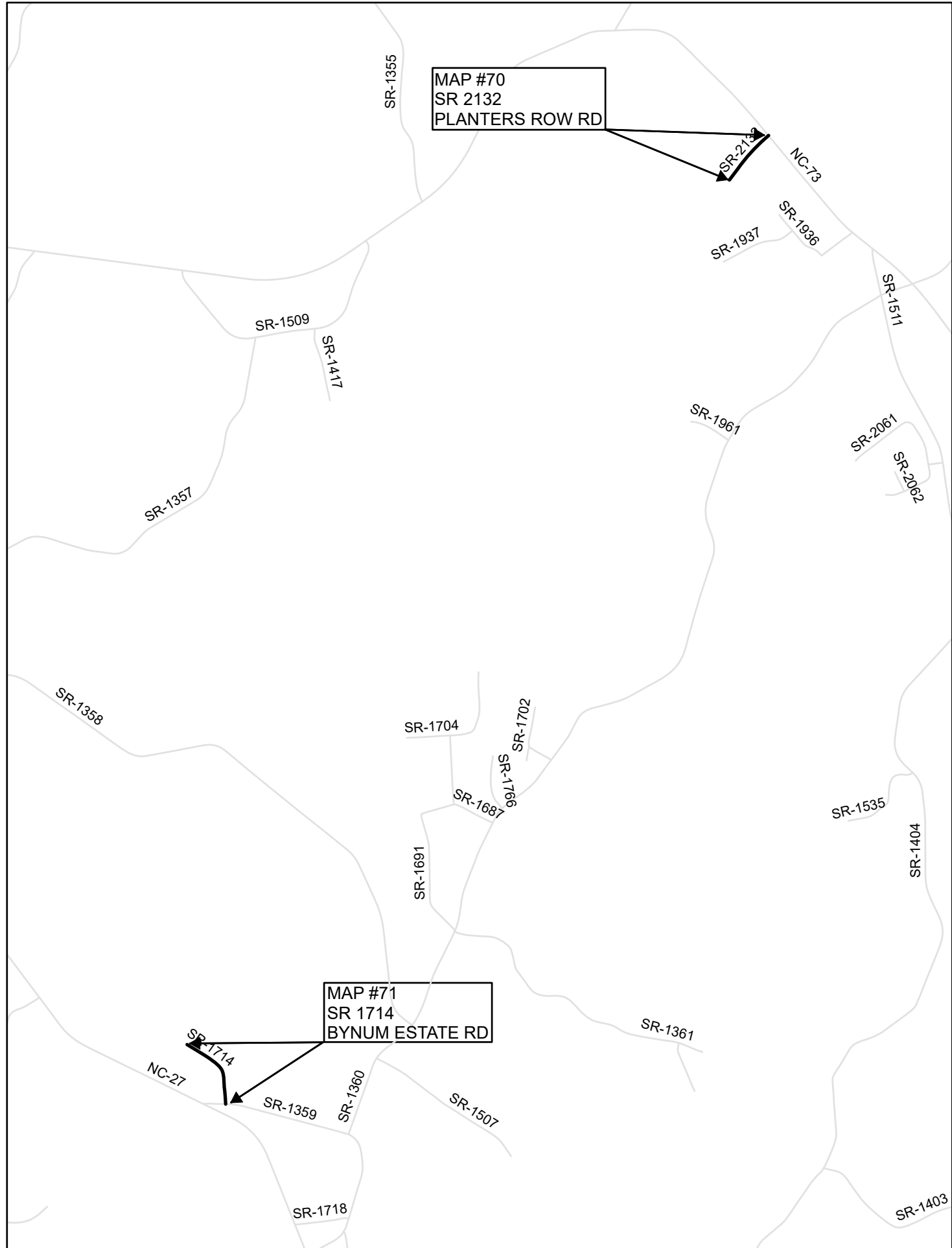
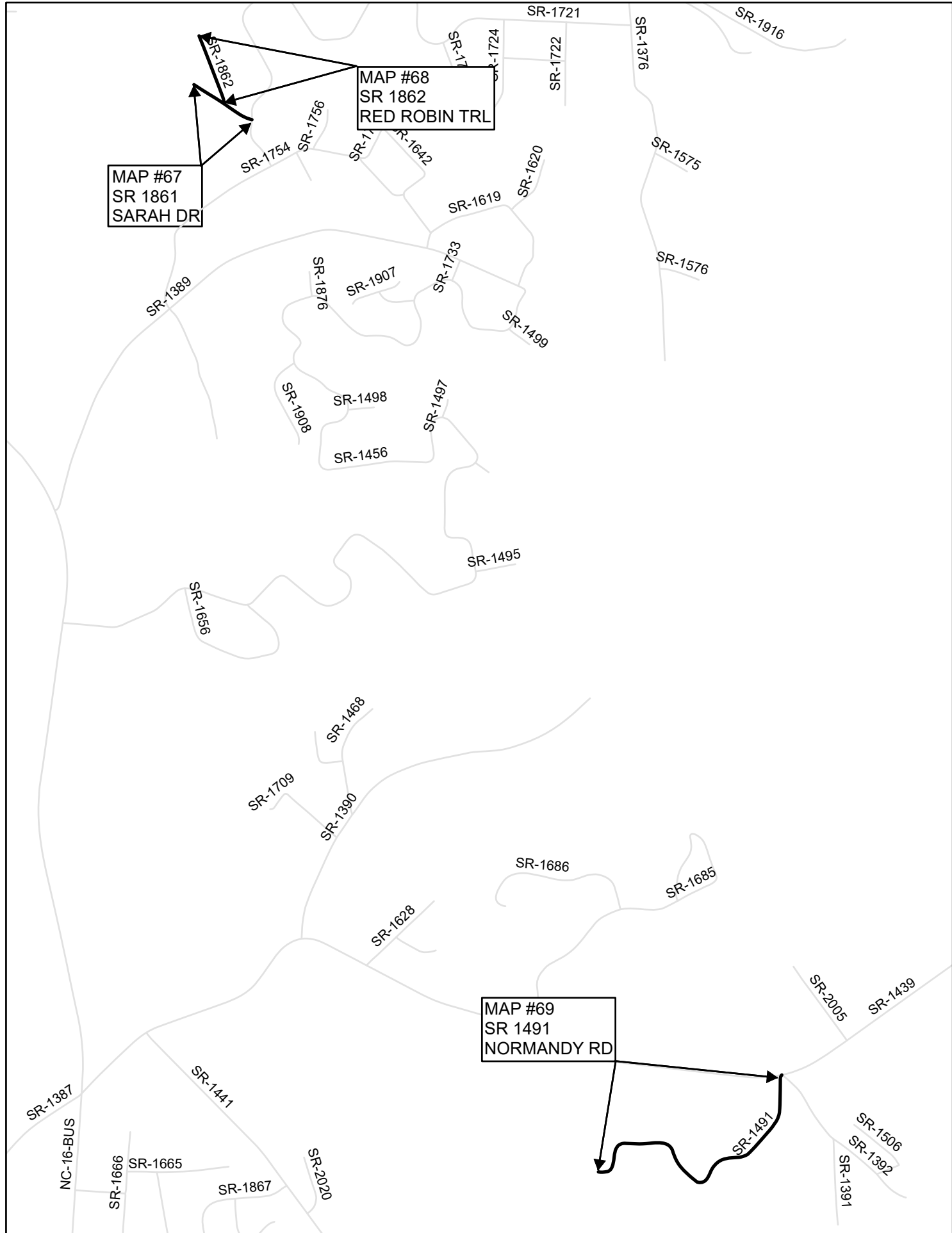


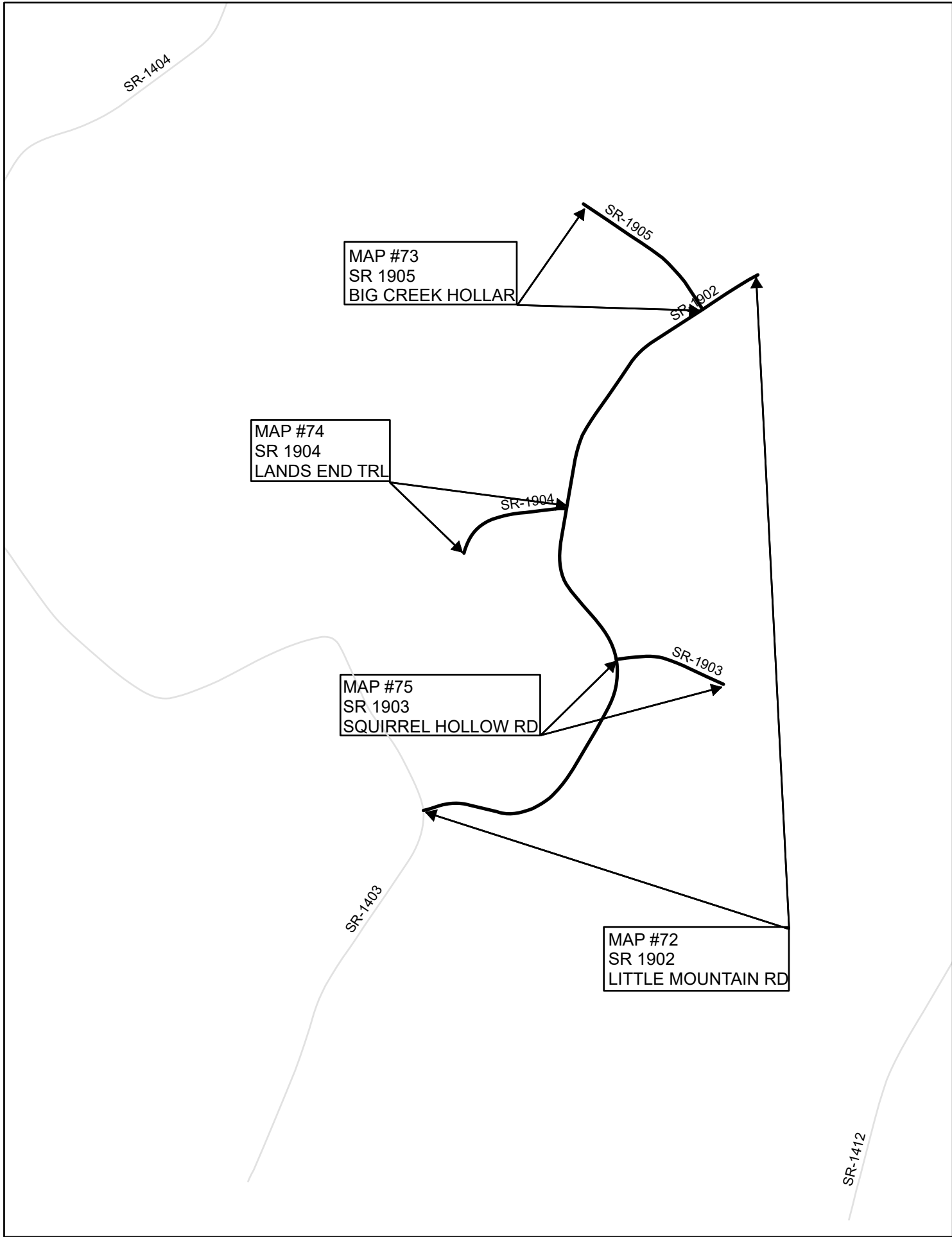




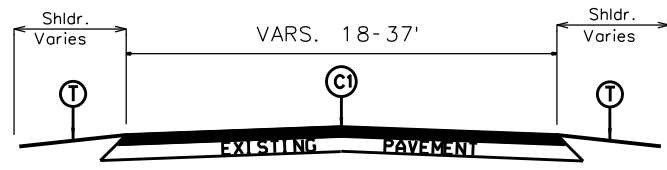






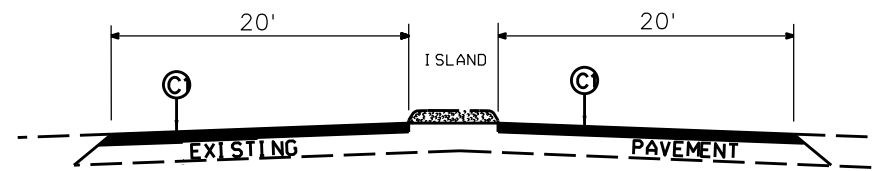


STATE	PROJECT WBS	SHEET NUMBER
NC	2021 CPT. 12. 05. 20181	15
	2021 CPT. 12. 05. 20551	



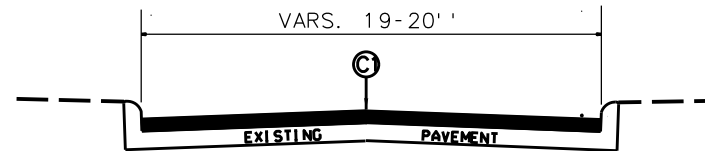
TYPICAL SECTION NO. 1

- | | |
|-------------------------|--------------------------|
| MAP # 1 - ENTIRE MAP | MAP #40 - ENTIRE MAP |
| MAP # 2 - ENTIRE MAP | MAP #41 - ENTIRE MAP |
| MAP # 3 - ENTIRE MAP | MAP #42 - ENTIRE MAP |
| MAP # 4 - ENTIRE MAP | MAP #43 - ENTIRE MAP |
| MAP # 5 - ENTIRE MAP | MAP #44 - ENTIRE MAP |
| MAP # 6 - ENTIRE MAP | MAP #45 - ENTIRE MAP |
| MAP # 7 - ENTIRE MAP | MAP #46 - ENTIRE MAP |
| MAP # 8 - ENTIRE MAP | MAP #47 - ENTIRE MAP |
| MAP # 9 - ENTIRE MAP | MAP #48 - ENTIRE MAP |
| MAP #10 - ENTIRE MAP | MAP #49 - ENTIRE MAP |
| MAP #11 - ENTIRE MAP | MAP #50 - ENTIRE MAP |
| MAP #12 - ENTIRE MAP | MAP #51 - ENTIRE MAP |
| MAP #13 - ENTIRE MAP | MAP #52 - 12+50 to 23+23 |
| MAP #14 - ENTIRE MAP | MAP #54 - ENTIRE MAP |
| MAP #15 - ENTIRE MAP | MAP #55 - ENTIRE MAP |
| MAP #16 - ENTIRE MAP | MAP #56 - ENTIRE MAP |
| MAP #17 - ENTIRE MAP | MAP #57 - ENTIRE MAP |
| MAP #18 - ENTIRE MAP | MAP #58 - ENTIRE MAP |
| MAP #19 - ENTIRE MAP | MAP #59 - ENTIRE MAP |
| MAP #20 - ENTIRE MAP | MAP #60 - ENTIRE MAP |
| MAP #21 - ENTIRE MAP | MAP #61 - ENTIRE MAP |
| MAP #22 - ENTIRE MAP | MAP #62 - ENTIRE MAP |
| MAP #23 - ENTIRE MAP | MAP #63 - ENTIRE MAP |
| MAP #24 - ENTIRE MAP | MAP #64 - ENTIRE MAP |
| MAP #25 - ENTIRE MAP | MAP #65 - ENTIRE MAP |
| MAP #26 - ENTIRE MAP | MAP #66 - ENTIRE MAP |
| MAP #27 - ENTIRE MAP | MAP #67 - ENTIRE MAP |
| MAP #28 - ENTIRE MAP | MAP #68 - ENTIRE MAP |
| MAP #29 - ENTIRE MAP | MAP #69 - ENTIRE MAP |
| MAP #30 - ENTIRE MAP | MAP #70 - ENTIRE MAP |
| MAP #31 - ENTIRE MAP | MAP #71 - ENTIRE MAP |
| MAP #32 - ENTIRE MAP | MAP #72 - ENTIRE MAP |
| MAP #33 - 2+80 to 42+24 | MAP #73 - ENTIRE MAP |
| MAP #34 - ENTIRE MAP | MAP #74 - ENTIRE MAP |
| MAP #35 - ENTIRE MAP | MAP #75 - ENTIRE MAP |
| MAP #36 - ENTIRE MAP | |
| MAP #37 - ENTIRE MAP | |
| MAP #38 - ENTIRE MAP | |
| MAP #39 - ENTIRE MAP | |



TYPICAL SECTION NO. 2

MAP #33 - 0+00 to 2+80



TYPICAL SECTION NO. 3

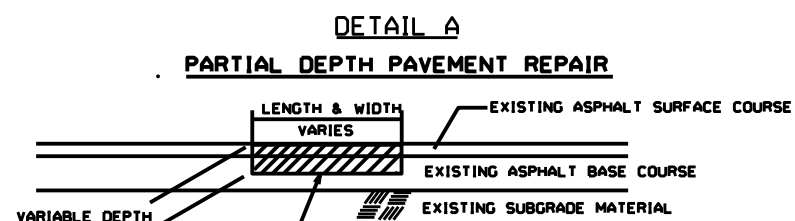
MAP #52 - 0+00 to 12+50
MAP #53 - ENTIRE MAP

PAVEMENT SCHEDULE

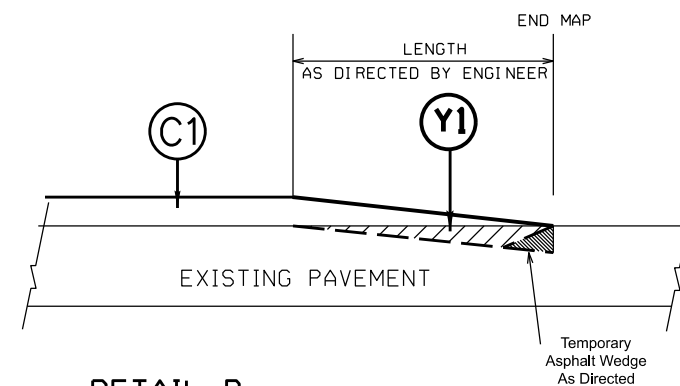
C1	PROP. APPROX. 3/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S4.75A, AT AN AVERAGE RATE OF 95 LBS. PER SQ. YD.
Y1	INCIDENTAL MILLING

Checked by:

Drawn by: G. Brittain



MILL EXISTING ASPHALT PAVEMENT COURSE AS DIRECTED, AND REMOVE ANY AND ALL LOOSE PAVEMENT MATERIAL AND REPLACE WITH ACIC TYPE, 119.08 AND OR ACSC TYPE, S9.58 AS DIRECTED BY THE ENGINEER.



DETAIL B
TIE-IN (INCIDENTAL) MILLING DETAIL

2021 - 2022
Pavement Preservation
Typical Sections
Lincoln and Catawba County

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.12.05.20182 2021CPT.12.05.20552	17	

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	1220000000-E	1330000000-E	1526000000-E	1575000000-E	1704000000-E	2830000000-N	2845000000-N
												INCIDENTAL STONE BASE	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, TYPE 54.75A	ASPHALT BINDER FOR PLANT MIX	PARTIAL DEPTH PAVEMENT REPAIR	MANHOLES	METER OR VALVE BOX
												MI	FT	TONS	SY	TON	TONS	TONS
2021CPT.12.05.20552	Lincoln	49	SR 1424 (LAKEWOOD AVE/ SPROUCE ST)	FROM US 321 BUS TO SR 1299 (TIN MINE RD)	1	2	2WU	NO	NO	0.2	18	10		131	9	30		
2021CPT.12.05.20552	Lincoln	50	SR 1934 (SPROUCE ST)	FROM SR 1424 (LAKEWOOD AVE) TO END MAINT	1	2	2WU	NO	NO	0.09	18	20		58	4			
2021CPT.12.05.20552	Lincoln	51	SR 1634 (CHAPMAN WYANT LN)	FROM SR 1300 (SMITH FARM RD) TO END MAINT	1	2	2WU	NO	NO	0.21	18			131	9	30		
2021CPT.12.05.20552	Lincoln	52	SR 1304 (COOPERTOWN RD/BRYANT COOPER LN)	FROM US 321 BUS TO CUL-DE-SAC	1, 3	2	2WU	NO	NO	0.44	19			294	21	100		
2021CPT.12.05.20552	Lincoln	53	SR 1667 (COOPERTOWN RD)	FROM SR 1304 (BRYANT COOPER LN) TO END MAINT	3	2	2WU	NO	NO	0.19	19			42	3	10		
2021CPT.12.05.20552	Lincoln	54	SR 1481 (ARCADIA HEIGHTS)	FROM NC 150 TO DEAD END	1	2	2WU	NO	NO	0.1	18			63	4	50		
2021CPT.12.05.20552	Lincoln	55	SR 1213 (LEE HUSS LN)	FROM SR 1003 (BUFFALO SHOALS) TO SR 1214 (TERRA COTTA DR)	1	2	2WU	NO	NO	0.1	19			68	5	20		
2021CPT.12.05.20552	Lincoln	56	SR 1214 (TERRA COTTA DR)	FROM SR 1213 (LEE HUSS LN) TO CUL-DE-SAC	1	2	2WU	NO	NO	0.1	19			84	6	30		
2021CPT.12.05.20552	Lincoln	57	SR 1212 (LAZY MEADOW LN)	FROM SR 1214 (TERRA COTTA DR) TO CUL-DE-SAC	1	2	2WU	NO	NO	0.06	20			63	4	20		
2021CPT.12.05.20552	Lincoln	58	SR 1505 (WEST DALE LN/DREXALL LN)	FROM SR 1003 (BUFFALO SHOALS RD) TO SR 1003 (BUFFALO SHOALS RD)	1	2	2WU	NO	NO	0.34	19			226	16	60		
2021CPT.12.05.20552	Lincoln	59	SR 1616 (WESTDALE LN)	FROM SR 1505 (WESTDALE LN) TO SR 1618 (KILBORNE DR)	1	2	2WU	NO	NO	0.095	18			63	4			
2021CPT.12.05.20552	Lincoln	60	SR 1618 (KILBORNE DR)	FROM SR 1616 (WESTDALE LN) TO DEAD END	1	2	2WU	NO	NO	0.035	18			22	2			
2021CPT.12.05.20552	Lincoln	61	SR 1617 (EMORYWOOD LN)	FROM SR 1616 (WESTDALE LN) TO END MAINT	1	2	2WU	NO	NO	0.06	18			37	3			
2021CPT.12.05.20552	Lincoln	62	SR 1610 (BOB COOK RD)	FROM US 321 BUS TO DEAD END	1	2	2WU	NO	NO	0.31	19			210	15	30		
2021CPT.12.05.20552	Lincoln	63	SR 1451 (LOVIEE RD/HUDSON WHITE TRL/HAMPTON RD)	FROM SR 1342 (SPRINGS EAST) TO SR 1342 (SPRINGS EAST)	1	2	2WU	NO	NO	0.573	20			399	28	100		
2021CPT.12.05.20552	Lincoln	64	SR 1472 (NELLWOOD LN/HERMAN DR/HUDSON WHITE TRL)	FROM SR 1451 (HAMPTON RD) TO SR 1451 (HUDSON WHITE TRL)	1	2	2WU	NO	NO	0.27	19			184	13			
2021CPT.12.05.20552	Lincoln	65	SR 1366 (LEE LAWING)	FROM SR 1347 (GOODSON RD) TO NC 150	1	2	2WU	NO	NO	0.845	20			604	42	100		
2021CPT.12.05.20552	Lincoln	66	SR 1370 (KEMP DELLINGER RD)	FROM SR 1369 (LEE MOORE RD) TO CUL-DE-SAC	1	2	2WU	NO	NO	0.36	19			242	17	50		
2021CPT.12.05.20552	Lincoln	67	SR 1861 (SARAH DR)	FROM SR 1721 (BLADES TRAIL) TO END MAINT	1	2	2WU	NO	NO	0.15	19			105	7	20	1	
2021CPT.12.05.20552	Lincoln	68	SR 1862 (RED ROBIN TRL)	FROM SR 1861 (SARAH DR) TO END MAINT	1	2	2WU	NO	NO	0.15	19			105	7	75		
2021CPT.12.05.20552	Lincoln	69	SR 1491 (NORMANDY RD)	FROM SR 1391 (UNITY CHURCH RD) TO DEAD END	1	2	2WU	NO	NO	0.66	20			457	32	100		
2021CPT.12.05.20552	Lincoln	70	SR 2132 (PLANTERS ROW RD)	FROM NC 73 TO END MAINT	1	2	2WU	NO	NO	0.21	20			158	11	40		
2021CPT.12.05.20552	Lincoln	71	SR 1714 (BYNUM ESTATE RD)	FROM SR 1359 (LONG CIR) TO END MAINT	1	2	2WU	NO	NO	0.27	20			200	14	40		
2021CPT.12.05.20552	Lincoln	72	SR 1902 (LITTLE MOUNTAIN RD)	FROM SR 1403 (SADLER RD) TO CUL-DE-SAC	1	2	2WU	NO	NO	0.95	20			662	46	100		
2021CPT.12.05.20552	Lincoln	73	SR 1905 (BIG CREEK HOLLAR)	FROM SR 1902 (LITTLE MOUNTAIN RD) TO CUL-DE-SAC	1	2	2WU	NO	NO	0.19	18			147	10	30		
2021CPT.12.05.20552	Lincoln	74	SR 1904 (LANDS END TRL)	FROM SR 1902 (LITTLE MOUNTAIN RD) TO CUL-DE-SAC	1	2	2WU	NO	NO	0.145	19			126	9			
2021CPT.12.05.20552	Lincoln	75	SR 1903 (SQUIRREL HOLLOW RD)	FROM SR 1902 (LITTLE MOUNTAIN RD) TO CUL-DE-SAC	1	2	2WU	NO	NO	0.13	20			100	7			
TOTAL FOR PROJ NO. 2021CPT.12.05.20552											12.633	60	1,500	16,265	1,137	2,630	1	2
GRAND TOTAL											23.74	60	1,500	16,265	1,137	2,630	1	2

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.12.05.20182., 2021CPT.12.05.20552	19	

THERMOPLASTIC AND PAINT QUANTITIES

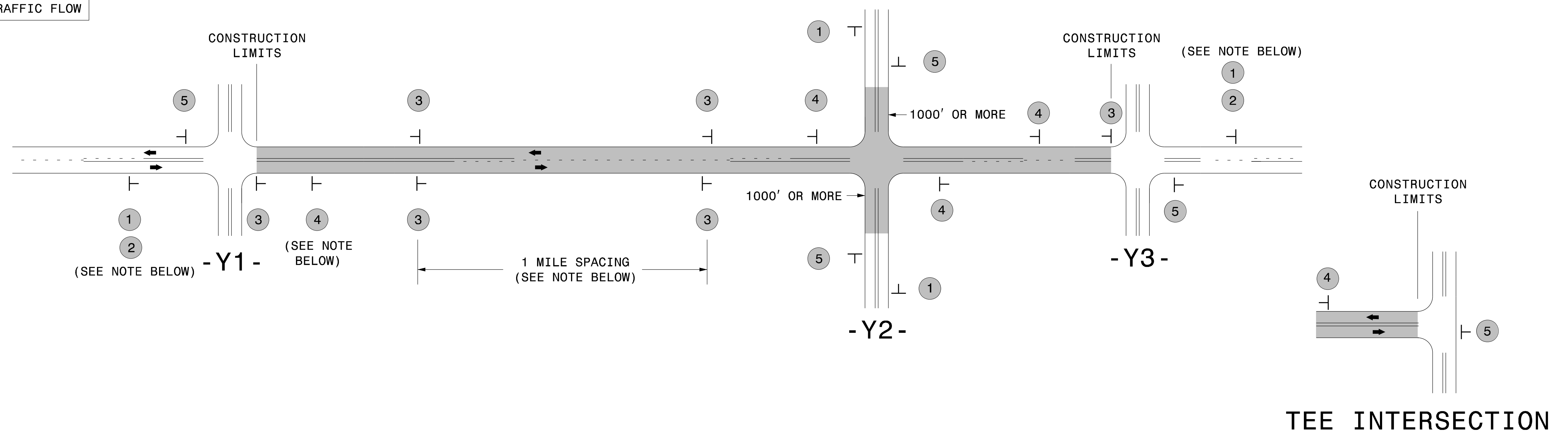
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH		4413000000-E WORK ZONE ADVANCE GENERAL WARNING	4457000000-N TEMP TRAFFIC CONTROL	4705000000-E 16" X 90 M WHITE THERMO	4710000000-E 24" X 90 M WHITE THERMO	4721000000-E THERMO RXR 90 M	4810000000-E		4870000000-E 24" LINE REMOVAL	4875000000-N REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	
								MI	FT						SF	LS			LF
2021CPT.12.05.20552	Lincoln	50	SR 1934 (SPROUCE ST)	FROM SR 1424 (LAKEWOOD AVE) TO END MAINT	1	2	2WU	0.09	18	24	*								
2021CPT.12.05.20552	Lincoln	51	SR 1634 (CHAPMAN WYANT LN)	FROM SR 1300 (SMITH FARM RD) TO END MAINT	1	2	2WU	0.21	18	48	*								
2021CPT.12.05.20552	Lincoln	52	SR 1304 (COOPERTOWN RD/BRYANT COOPER LN)	FROM US 321 BUS TO CUL-DE-SAC	1, 3	2	2WU	0.44	19	48	*								
2021CPT.12.05.20552	Lincoln	53	SR 1667 (COOPERTOWN RD)	FROM SR 1304 (BRYANT COOPER LN) TO END MAINT	3	2	2WU	0.19	19		*								
2021CPT.12.05.20552	Lincoln	54	SR 1481 (ARCADIA HEIGHTS)	FROM NC 150 TO DEAD END	1	2	2WU	0.1	18	48	*								
2021CPT.12.05.20552	Lincoln	55	SR 1213 (LEE HUSS LN)	FROM SR 1003 (BUFFALO SHOALS) TO SR 1214 (TERRA COTTA DR)	1	2	2WU	0.1	19	48	*								
2021CPT.12.05.20552	Lincoln	56	SR 1214 (TERRA COTTA DR)	FROM SR 1213 (LEE HUSS LN) TO CUL- DE-SAC	1	2	2WU	0.1	19		*								
2021CPT.12.05.20552	Lincoln	57	SR 1212 (LAZY MEADOW LN)	FROM SR 1214 (TERRA COTTA DR) TO CUL-DE-SAC	1	2	2WU	0.06	20		*								
2021CPT.12.05.20552	Lincoln	58	SR 1505 (WEST DALE LN/DREXALL LN)	FROM SR 1003 (BUFFALO SHOALS RD) TO SR 1003 (BUFFALO SHOALS RD)	1	2	2WU	0.34	19	48	*								
2021CPT.12.05.20552	Lincoln	59	SR 1616 (WESTDALE LN)	FROM SR 1505 (WESTDALE LN) TO SR 1618 (KILBORNE DR)	1	2	2WU	0.095	18		*								
2021CPT.12.05.20552	Lincoln	60	SR 1618 (KILBORNE DR)	FROM SR 1616 (WESTDALE LN) TO DEAD END	1	2	2WU	0.035	18		*								
2021CPT.12.05.20552	Lincoln	61	SR 1617 (EMORYWOOD LN)	FROM SR 1616 (WESTDALE LN) TO END MAINT	1	2	2WU	0.06	18		*								
2021CPT.12.05.20552	Lincoln	62	SR 1610 (BOB COOK RD)	FROM US 321 BUS TO DEAD END	1	2	2WU	0.31	19	48	*								
2021CPT.12.05.20552	Lincoln	63	SR 1451 (LOVIEE RD/HUDSON WHITE TRL/HAMPTON RD)	FROM SR 1342 (SPRINGS EAST) TO SR 1342 (SPRINGS EAST)	1	2	2WU	0.573	20	72	*				12,110	12,110			
2021CPT.12.05.20552	Lincoln	64	SR 1472 (NELLWOOD LN/HERMAN DR/HUDSON WHITE TRL)	FROM SR 1451 (HAMPTON RD) TO SR 1451 (HUDSON WHITE TRL)	1	2	2WU	0.27	19	48	*				5,710	5,710			
2021CPT.12.05.20552	Lincoln	65	SR 1366 (LEE LAWING)	FROM SR 1347 (GOODSON RD) TO NC 150	1	2	2WU	0.845	20	184	*				17,850	17,850			
2021CPT.12.05.20552	Lincoln	66	SR 1370 (KEMP DELLINGER RD)	FROM SR 1369 (LEE MOORE RD) TO CUL-DE-SAC	1	2	2WU	0.36	19	48	*								
2021CPT.12.05.20552	Lincoln	67	SR 1861 (SARAH DR)	FROM SR 1721 (BLADES TRAIL) TO END MAINT	1	2	2WU	0.15	19	72	*								
2021CPT.12.05.20552	Lincoln	68	SR 1862 (RED ROBIN TRL)	FROM SR 1861 (SARAH DR) TO END MAINT	1	2	2WU	0.15	19		*								
2021CPT.12.05.20552	Lincoln	69	SR 1491 (NORMANDY RD)	FROM SR 1391 (UNITY CHURCH RD) TO DEAD END	1	2	2WU	0.66	20	48	*								
2021CPT.12.05.20552	Lincoln	70	SR 2132 (PLANTERS ROW RD)	FROM NC 73 TO END MAINT	1	2	2WU	0.21	20	48	*								
2021CPT.12.05.20552	Lincoln	71	SR 1714 (BYNUM ESTATE RD)	FROM SR 1359 (LONG CIR) TO END MAINT	1	2	2WU	0.27	20	48	*								
2021CPT.12.05.20552	Lincoln	72	SR 1902 (LITTLE MOUNTAIN RD)	FROM SR 1403 (SADLER RD) TO CUL- DE-SAC	1	2	2WU	0.95	20	48	*				20,075	20,075			
2021CPT.12.05.20552	Lincoln	73	SR 1905 (BIG CREEK HOLLAR)	FROM SR 1902 (LITTLE MOUNTAIN RD) TO CUL-DE-SAC	1	2	2WU	0.19	18		*								
2021CPT.12.05.20552	Lincoln	74	SR 1904 (LANDS END TRL)	FROM SR 1902 (LITTLE MOUNTAIN RD) TO CUL-DE-SAC	1	2	2WU	0.145	19		*								
2021CPT.12.05.20552	Lincoln	75	SR 1903 (SQUIRREL HOLLOW RD)	FROM SR 1902 (LITTLE MOUNTAIN RD) TO CUL-DE-SAC	1	2	2WU	0.13	20		*								
TOTAL FOR PROJ NO. 2021CPT.12.05.20552									12.633		1,720	*	100	60	4	116,400	116,400	160	4
															232,800				
GRAND TOTAL									23.74		2,496	1	100	60	4	177,035	177,035	160	4
															354,070				

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 CONSTRUCTION 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 SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART 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. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.	
	5	 <small>G20-2 A 48" X 24"</small>	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.	

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, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

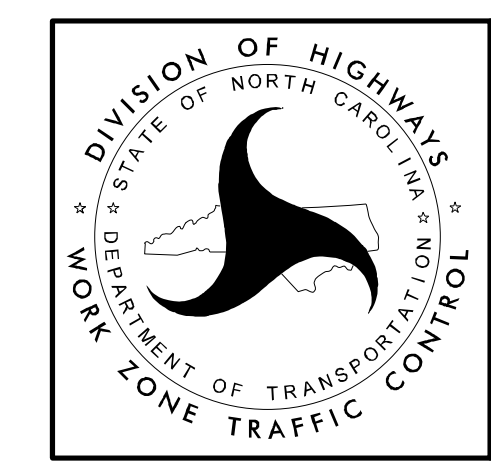
W20-1
48" X 48"
 PLACED 500' IN ADVANCE OF FLAGGER.

W20-7 A
48" X 48"
 PLACED 250' IN ADVANCE OF FLAGGER.

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 S:\TUXWZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn User:kadai