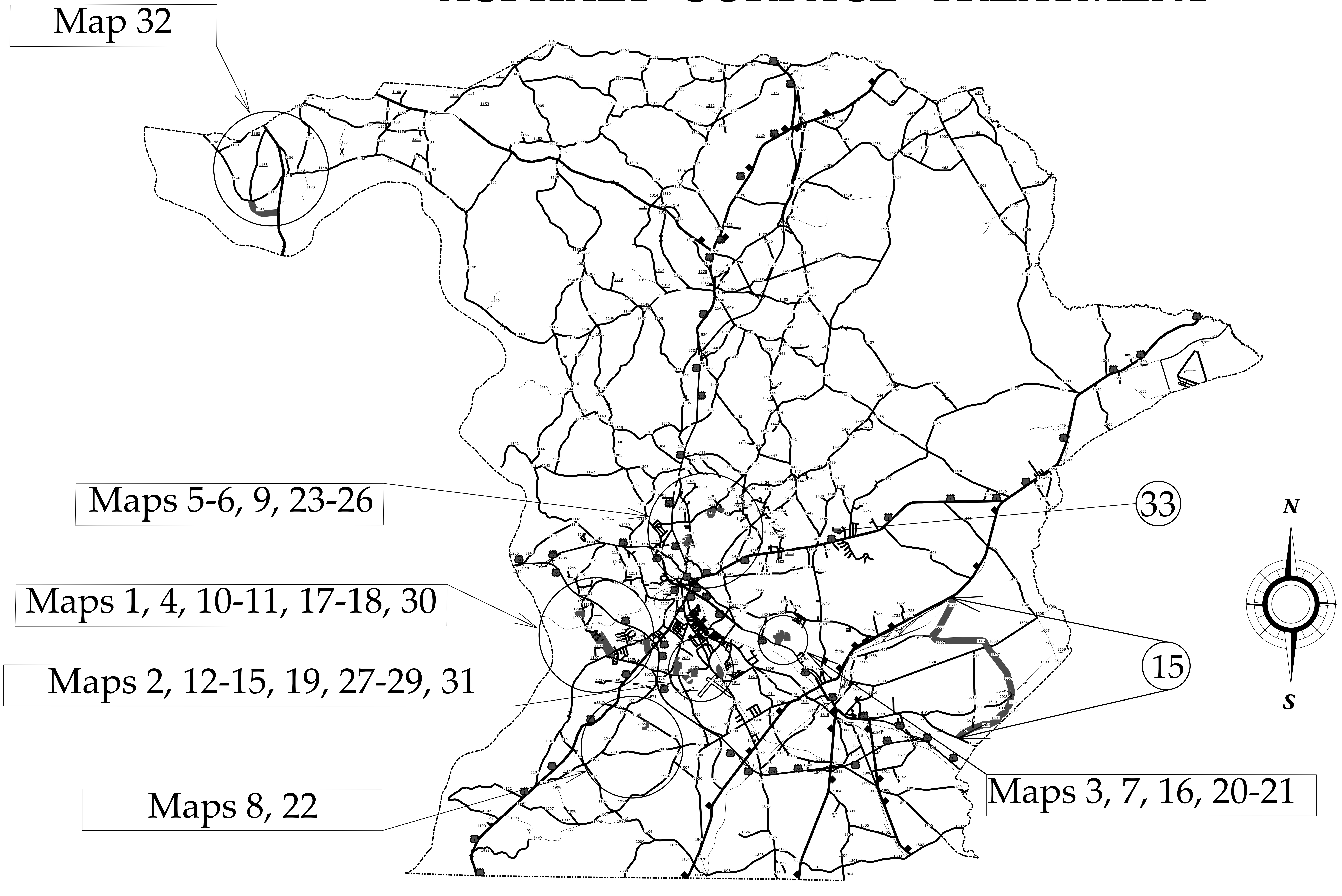
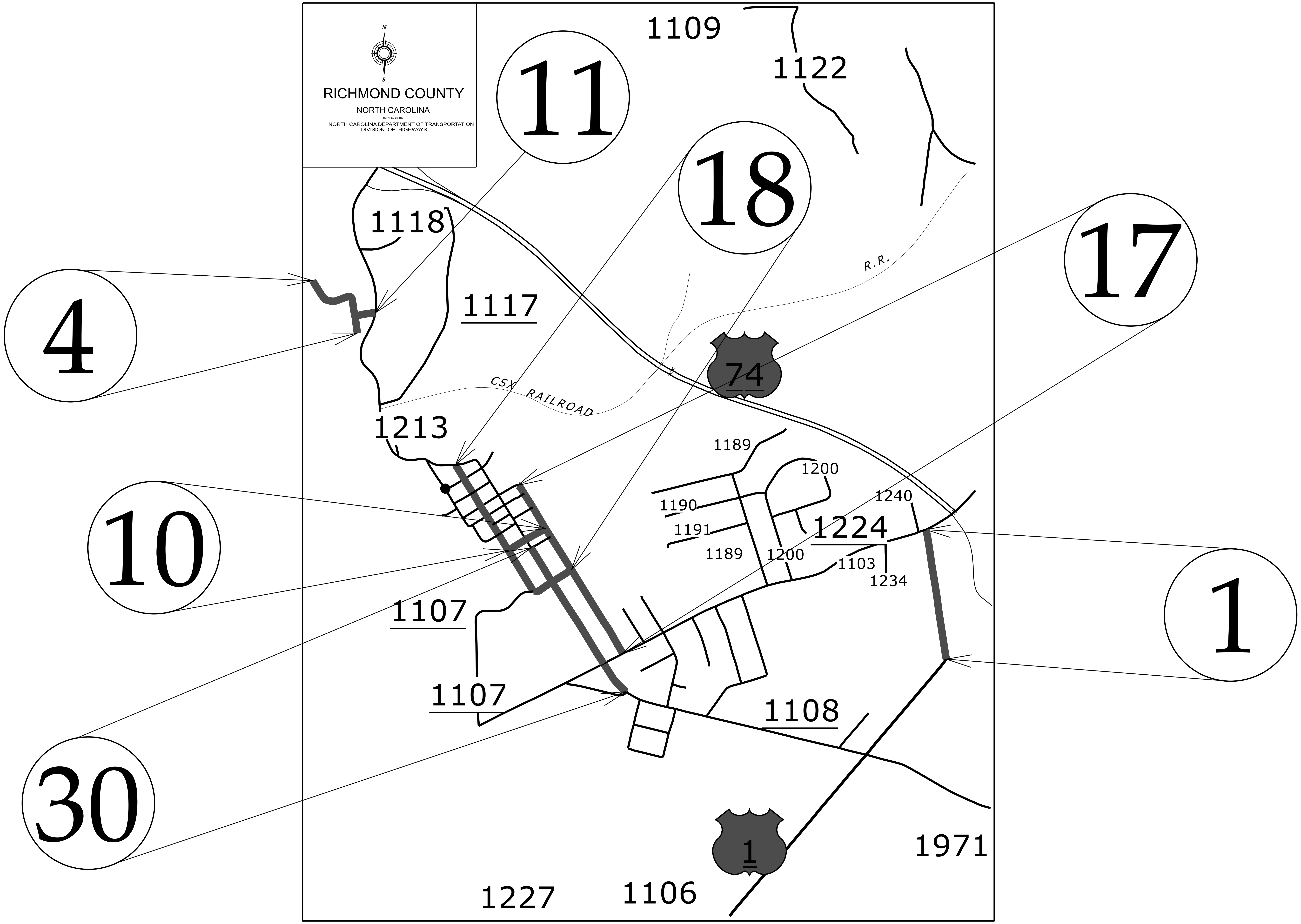
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2027CPT.08.03.20772	1

RICHMOND COUNTY
ASPHALT SURFACE TREATMENT



WBS ELEMENT	SHEET NO.
2027CPT.08.03.20772	2

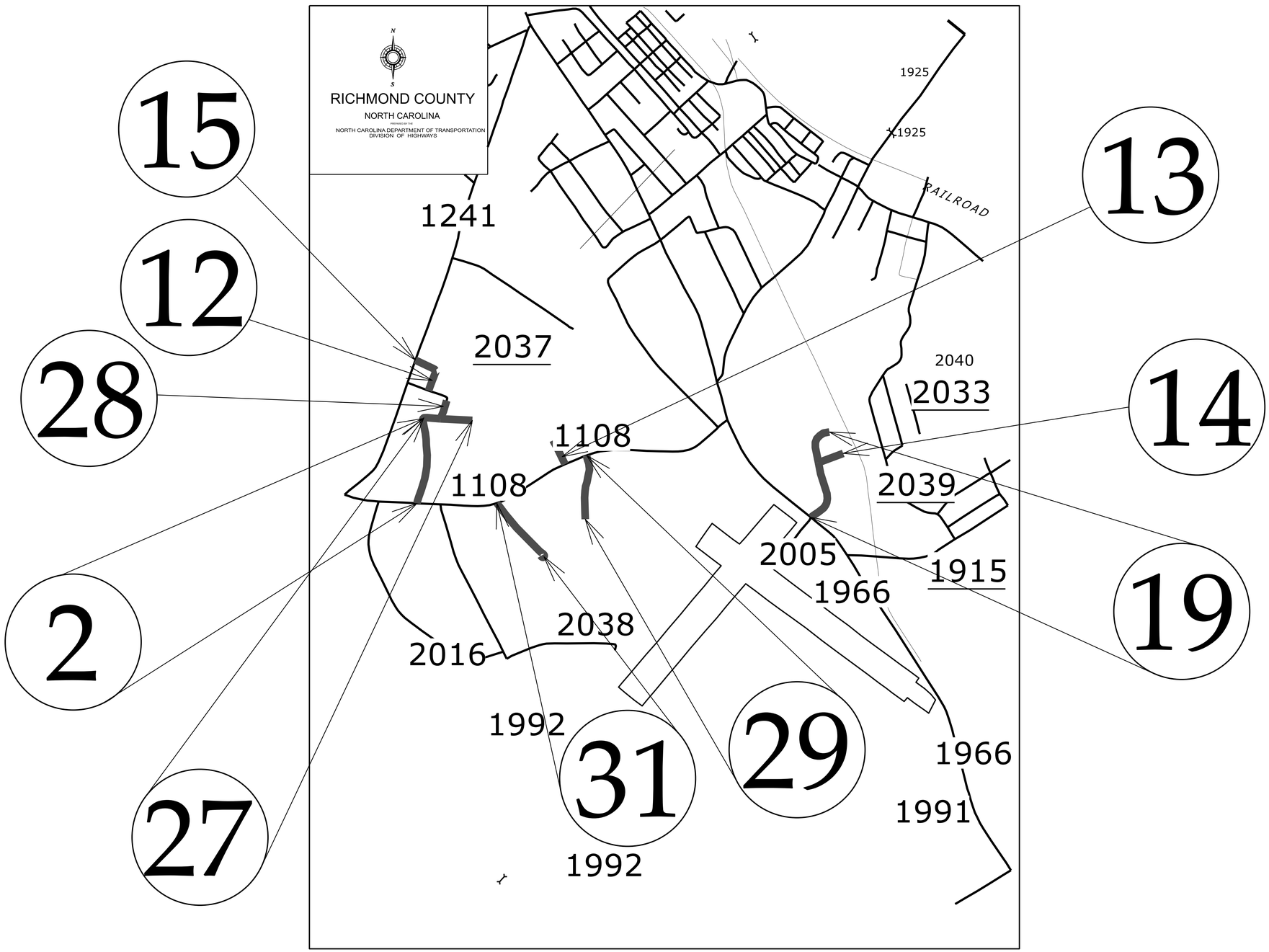
Maps 1, 4, 10-11, 17-18, 30



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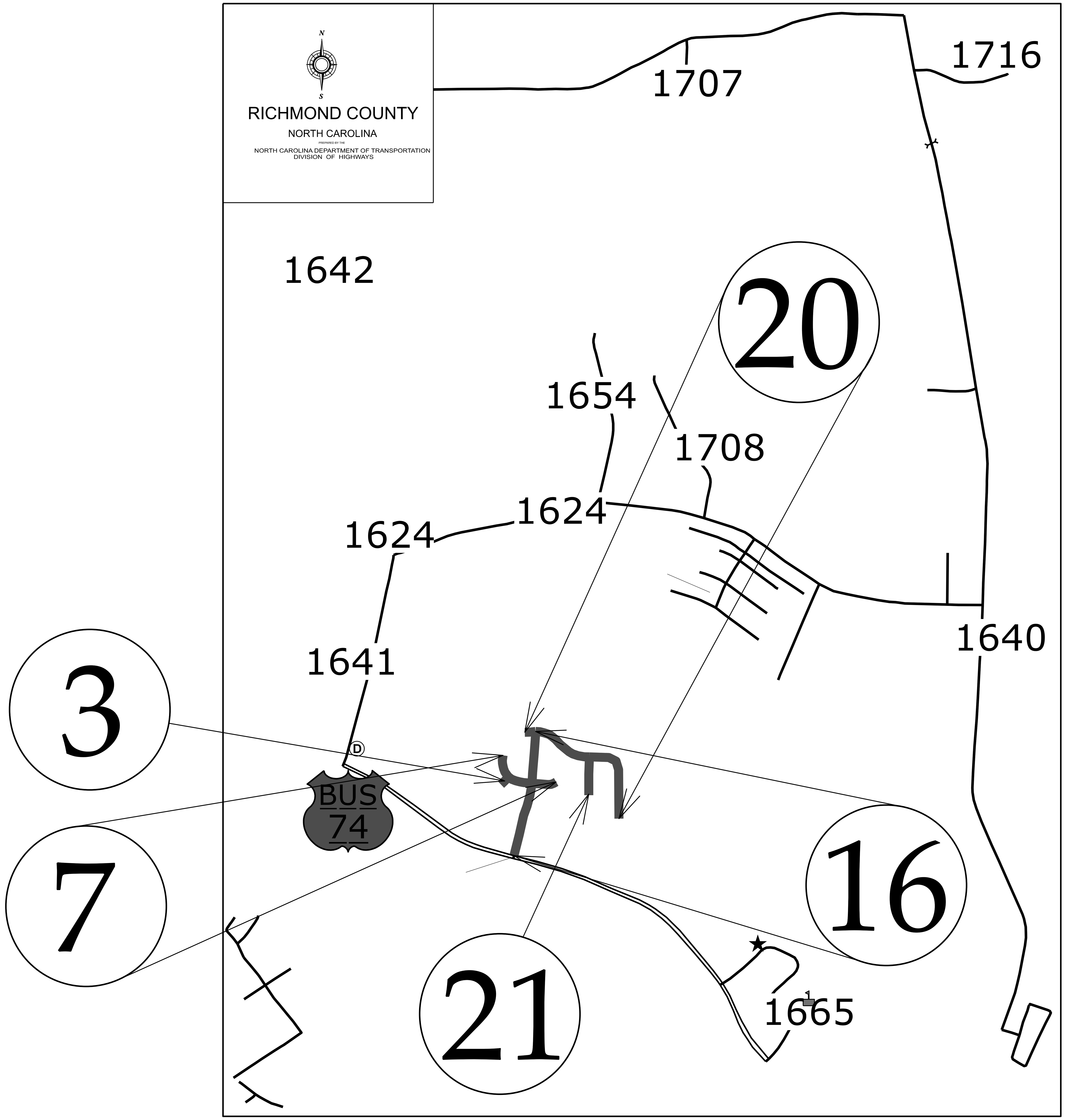
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2027CPT.08.03.20772	3

Maps 2, 12-15, 19, 27-29, 31



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2027CPT.08.03.20772	4

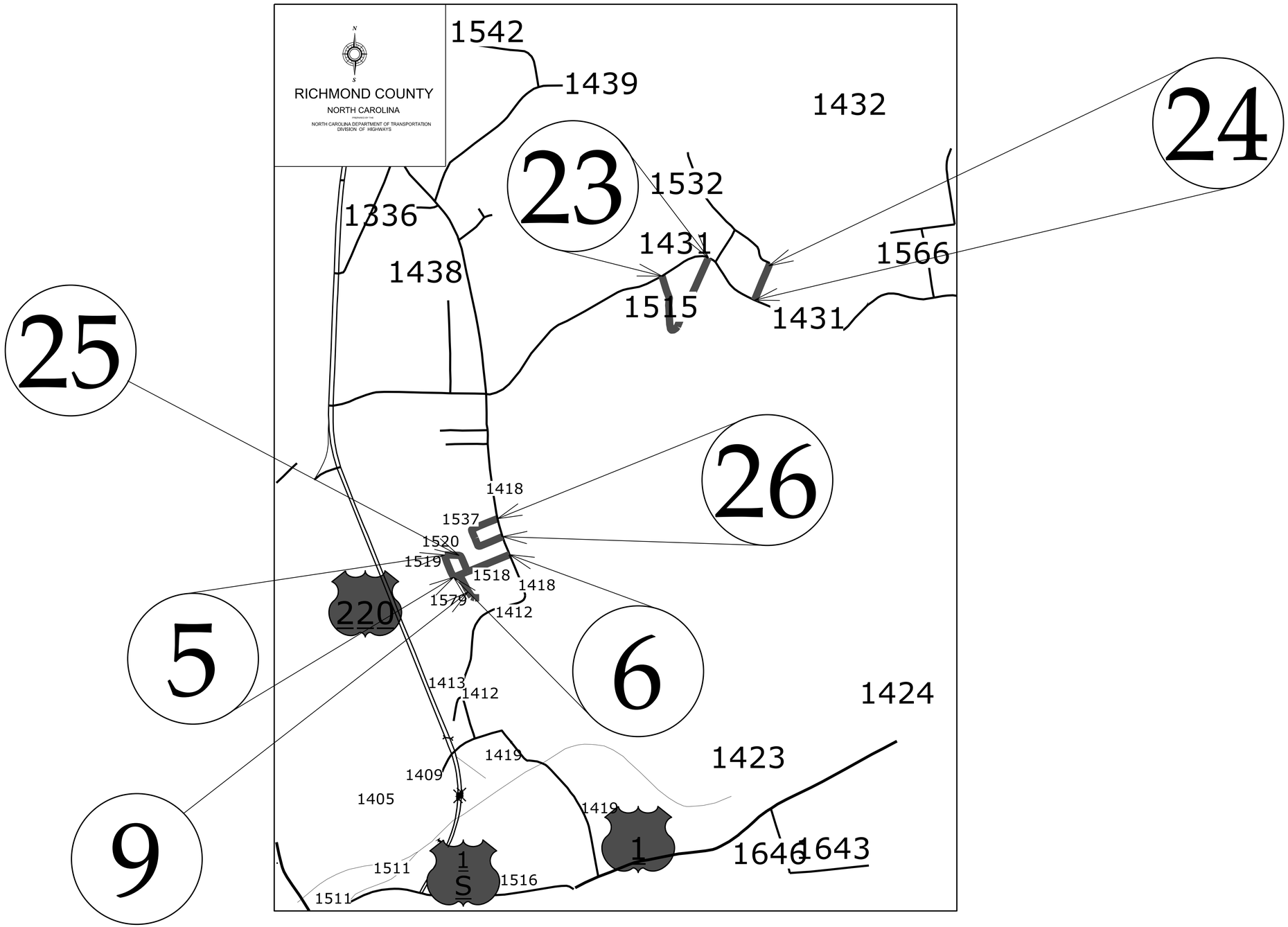
Maps 3, 7, 16, 20-21



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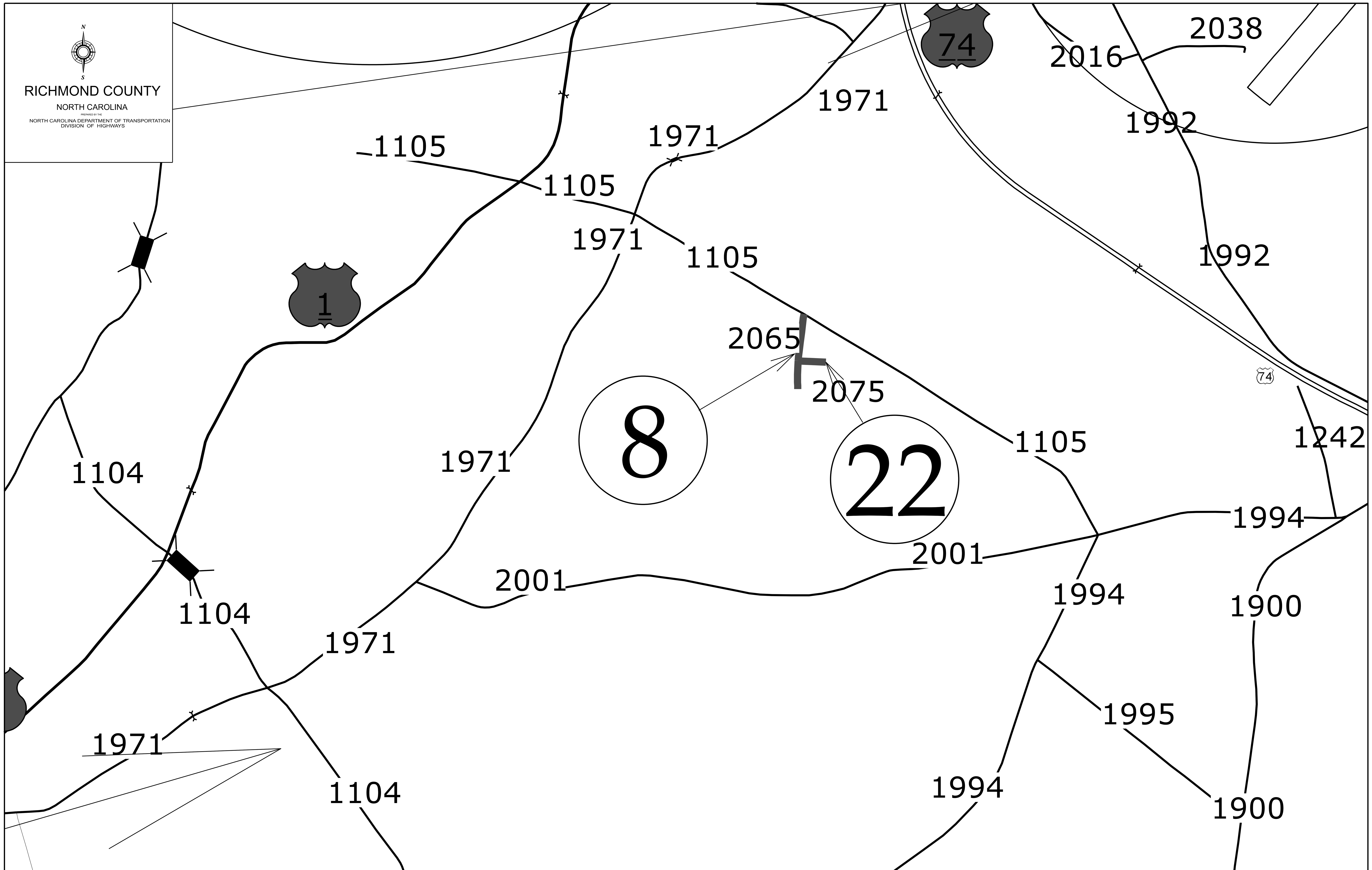
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2027CPT.08.03.20772	5

Maps 5-6, 9, 23-26



WBS ELEMENT	SHEET NO.
2027CPT.08.03.20772	6

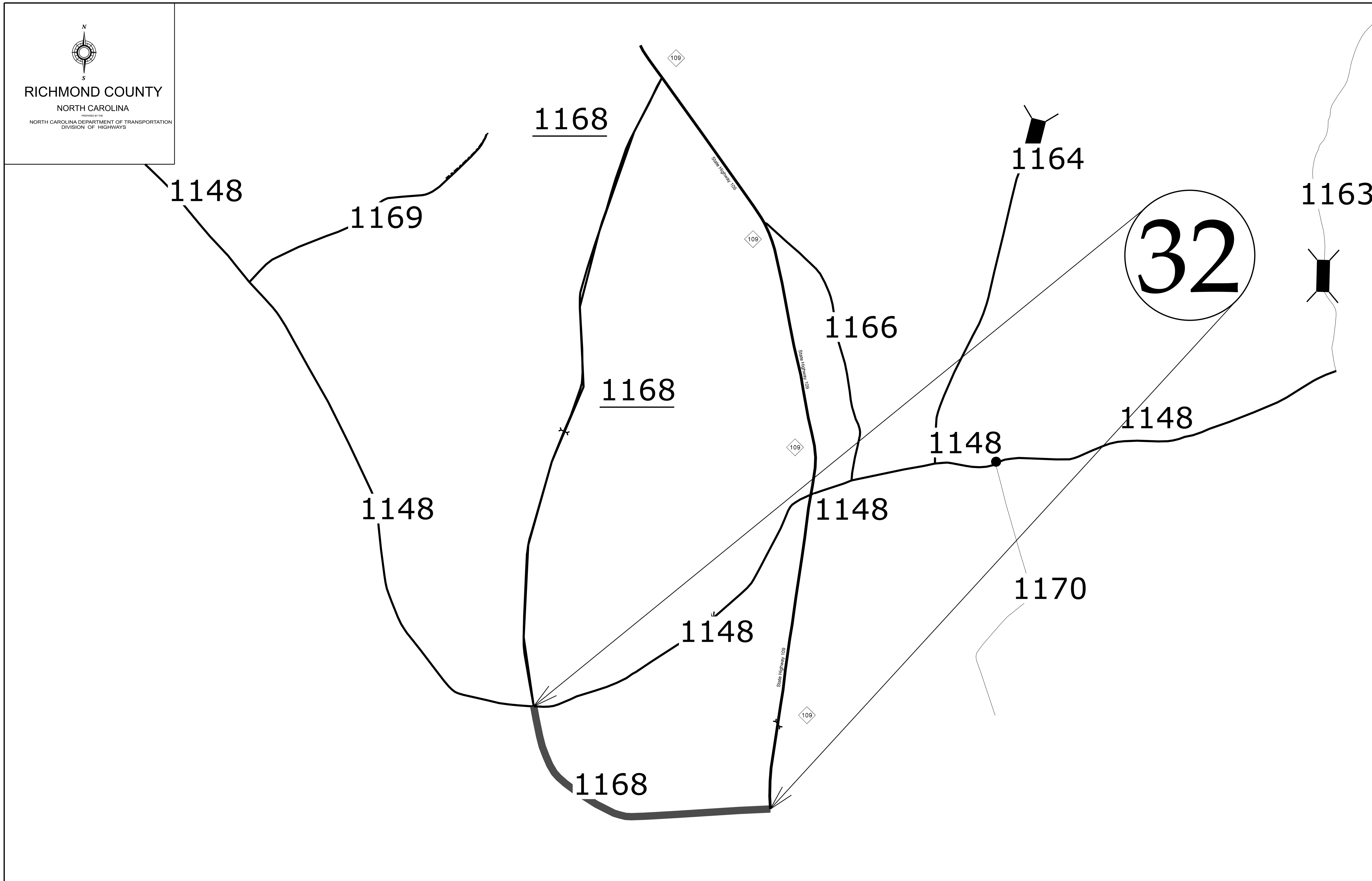
Maps 8, 22



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WBS ELEMENT	SHEET NO.
2027CPT.08.03.20772	7

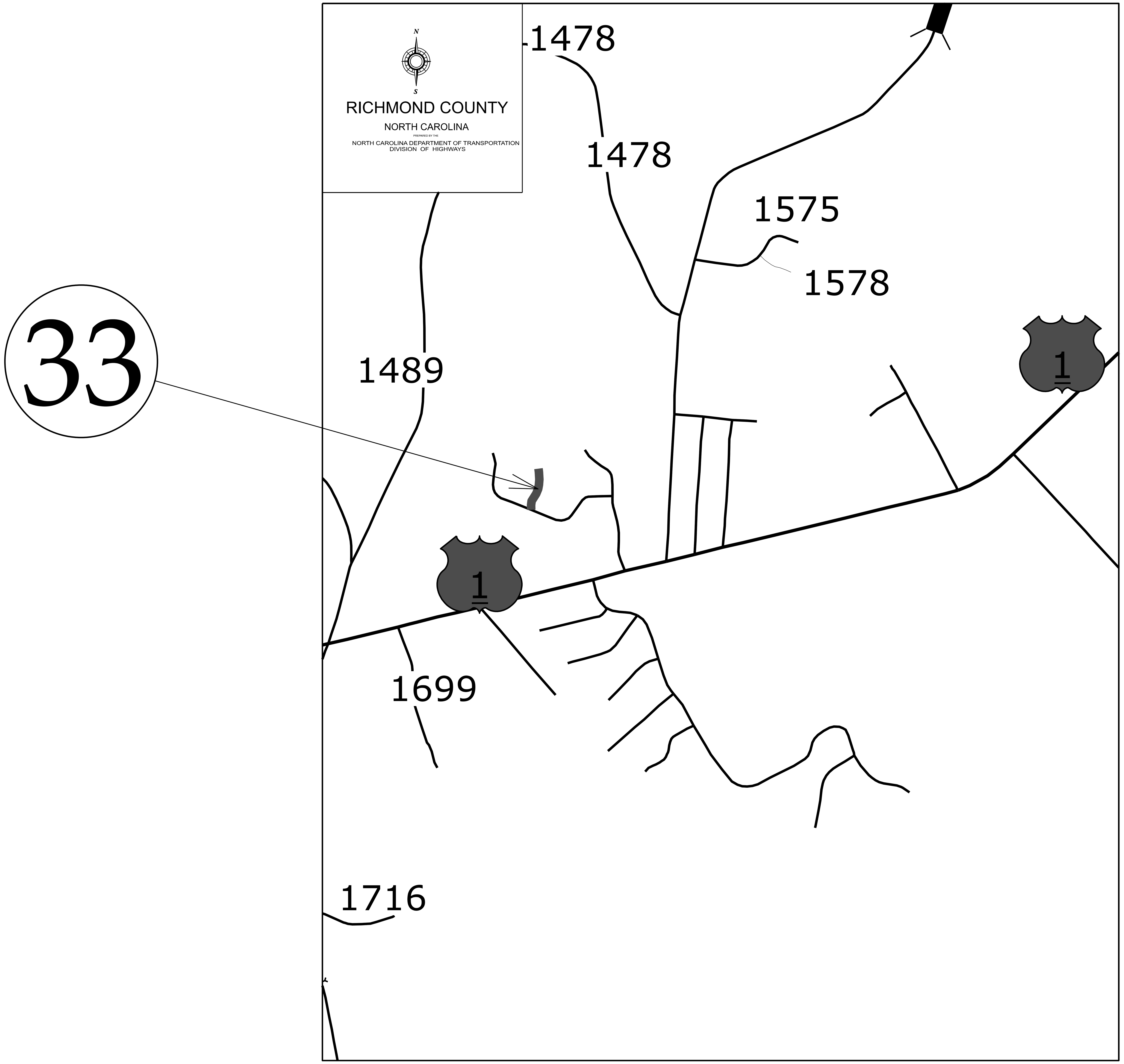
Map 32



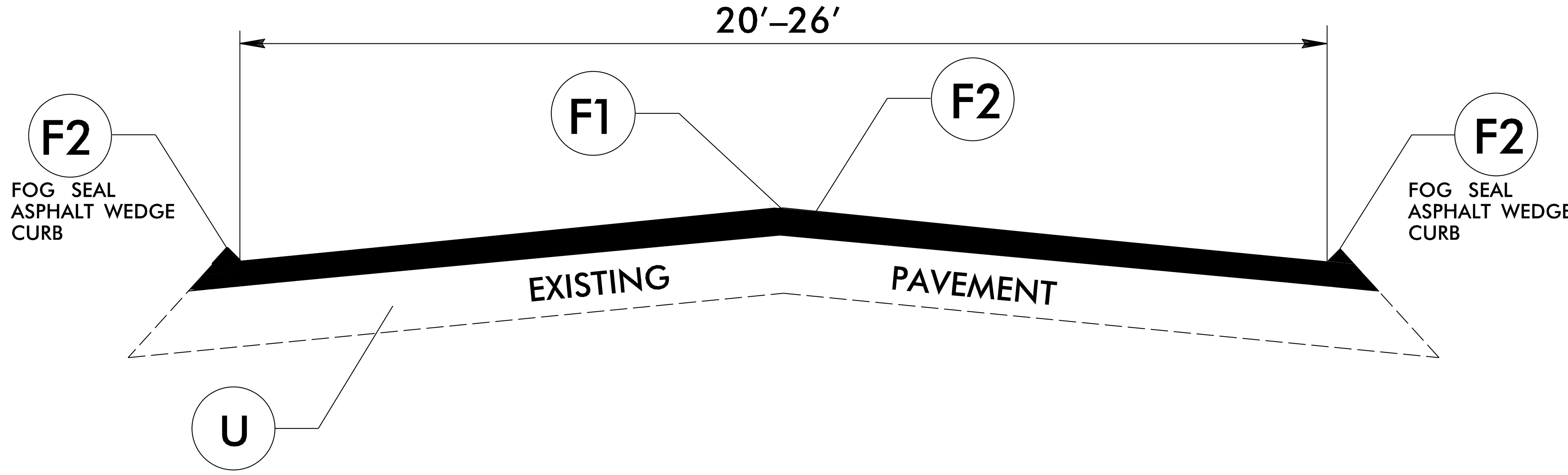
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WBS ELEMENT	SHEET NO.
2027CPT.08.03.20772	8

Map 33



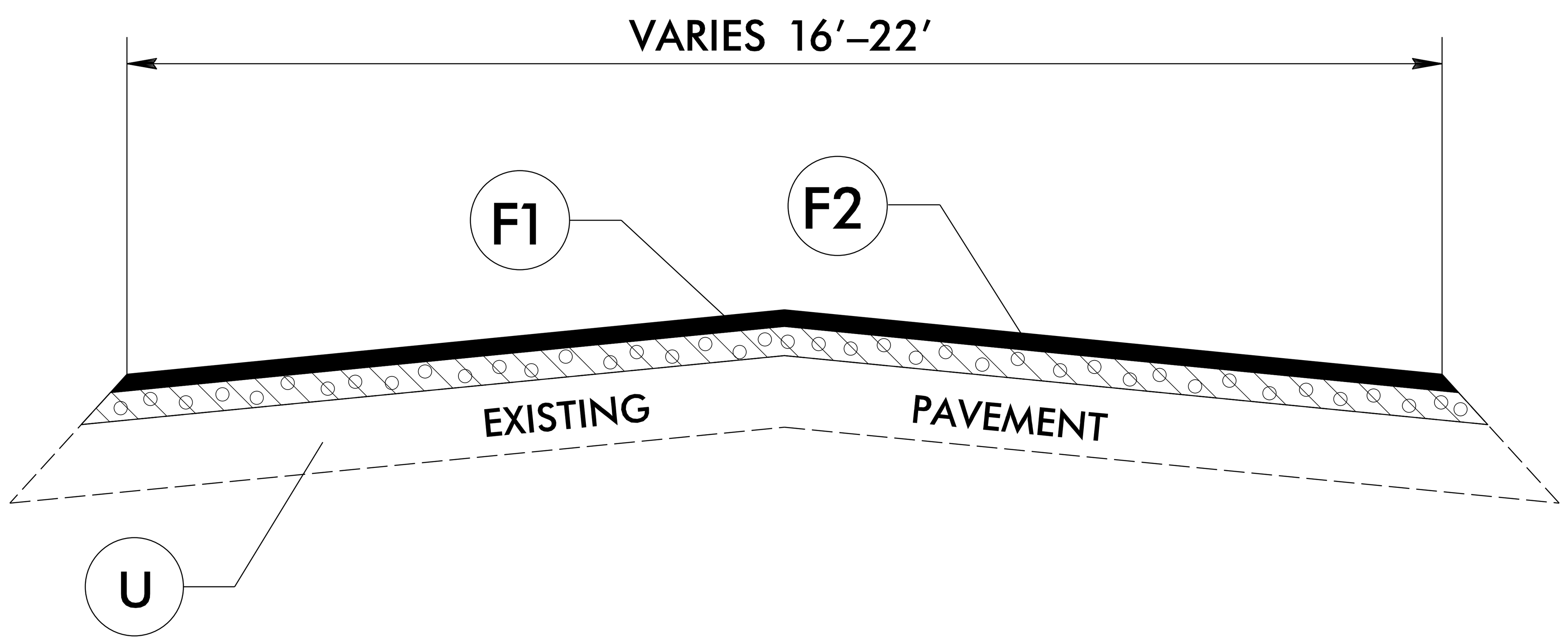
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TYPICAL SECTION NO. 1

MAPS 1, 16

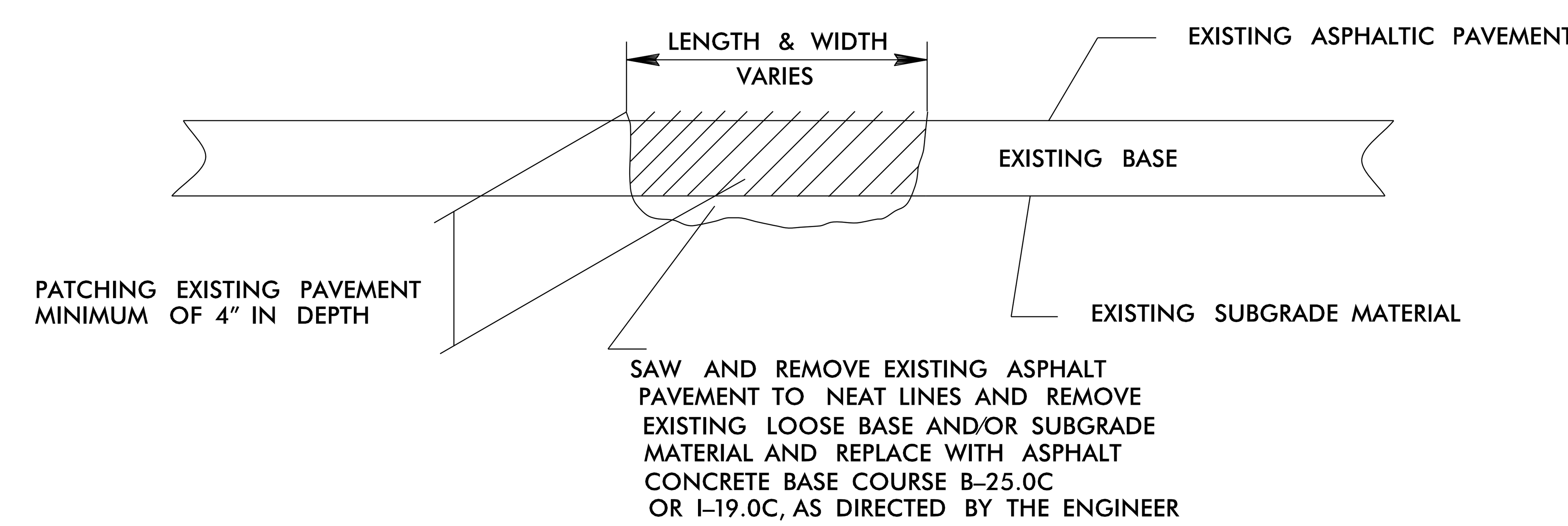
PAVEMENT SCHEDULE	
F1	PROP. ASPHALT SURFACE TREATMENT DOUBLE SEAL
F2	PROP. ASPHALT SURFACE TREATMENT FOG SEAL
U	EXISTING PAVEMENT



TYPICAL SECTION NO. 2

MAPS 2–15, 17–33

DETAILS OF PATCHING EXISTING PAVEMENT PRIOR TO RESURFACING



$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$$

PROJECT NO.	SHEET NO.	TOTAL NO.
2027CPT.08.03.20772	10	12

SUMMARY OF QUANTITIES

														1575000000-E	1704000000-E	1803500000-E	1820000000-E	1838000000-E	1838500000-N	4413000000-E	4457000000-N	4815000000-E		4820000000-E	4835000000-E	4840000000-N	4845000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP			ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ASPHALT SURFACE TREATMENT, DOUBLE SEAL	ASPHALT SURFACE TREATMENT, FOG SEAL	EMULSION FOR ASPHALT SURFACE TREATMENT	VACUUM TRUCK	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	6" WHITE PAINT	6" YELLOW PAINT	8" YELLOW PAINT	24" WHITE PAINT	PAINT MSG SCHOOL	PAINT RT ARROW
								MI	FT					TONS	TONS	SY	SY	GAL	WK	SF	LS	LF	LF	LF	LF	EA	EA
2027CPT.08.03.20772	Richmond	1	SR-1137 / SPRING ST	FROM SR 1103 (OLD CHERAW HWY) TO US HWY 1	1	2	2WU	0.460	20	0.000	0.460					6,075.00	6,306.00	4,226		52		9,720	9,720				
TOTAL FOR MAP NO. 1								**0.460**								**6,075.00**	**6,306.00**	**4,226**		**52**		**9,720**	**9,720**				
2027CPT.08.03.20772	Richmond	2	SR-2010 / COLLINS CHURCH RD	FROM SR 1108 (MIZPAH RD.) TO SR 2067 (INGRAM ST.)	2	2	2WU	0.300	20	0.000	0.300				1	3,378.00	3,378.00	2,264		34							
TOTAL FOR MAP NO. 2								**0.300**							**1**	**3,378.00**	**3,378.00**	**2,264**		**34**							
2027CPT.08.03.20772	Richmond	3	SR-1721 / WALTERS CT	FROM SR 1719 (EVELYN CT.) TO D.E.	2	2	2WD	0.030	20	0.000	0.030				3	530.00	530.00	356		3							
TOTAL FOR MAP NO. 3								**0.030**							**3**	**530.00**	**530.00**	**356**		**3**							
2027CPT.08.03.20772	Richmond	4	SR-1209 / BUTLER CIR	FROM D.E. TO +/-.242 MI FROM SR 1208 (WATERS AVE.)	2	2	2WU	0.300	18	0.000	0.300		1	22		3,168.00	3,168.00	2,123		34							
TOTAL FOR MAP NO. 4								**0.300**					**1**	**22**		**3,168.00**	**3,168.00**	**2,123**		**34**							
2027CPT.08.03.20772	Richmond	5	SR-1519 / ROSA ST	FROM SR 1518 (SALEM DR.) TO SR 1520 (FOREST DR.)	2	2	2WU	0.090	21	0.000	0.090				3	1,109.00	1,109.00	744		10							
TOTAL FOR MAP NO. 5								**0.090**							**3**	**1,109.00**	**1,109.00**	**744**		**10**							
2027CPT.08.03.20772	Richmond	6	SR-1518 / SALEM DR	FROM SR 1418 (NORTHAM RD.) TO SR 1519 (ROSA ST.)	2	2	2WU	0.210	21	0.000	0.210				5	2,587.00	2,587.00	1,734		24							
TOTAL FOR MAP NO. 6								**0.210**							**5**	**2,587.00**	**2,587.00**	**1,734**		**24**							
2027CPT.08.03.20772	Richmond	7	SR-1719 / EVELYN CT	D.E. TO D.E.	2	2	2WU	0.210	20.5	0.000	0.210		1	27		2,526.00	2,526.00	1,693		24							
TOTAL FOR MAP NO. 7								**0.210**					**1**	**27**		**2,526.00**	**2,526.00**	**1,693**		**24**							
2027CPT.08.03.20772	Richmond	8	SR-2065 / STURDIVANT DR	FROM SR 1105 (E. HAMER RD.) TO D.E.	2	2	2WU	0.270	20	0.000	0.270				2	3,168.00	3,168.00	2,123		30							
TOTAL FOR MAP NO. 8								**0.270**							**2**	**3,168.00**	**3,168.00**	**2,123**		**30**							
2027CPT.08.03.20772	Richmond	9	SR-1579 / PEACE DR	FROM SR 1518 (SALEM DR.) TO SR 1518 +/-.114MI	2	2	2WU	0.110	20	0.000	0.110					1,290.00	1,290.00	865		12							
TOTAL FOR MAP NO. 9								**0.110**								**1,290.00**	**1,290.00**	**865**		**12**							
2027CPT.08.03.20772	Richmond	10	SR-1115 / 7TH ST	FROM SR 1110 (CHURCH ST.) TO SR 1112 (CENTER ST.)	2	2	2WU	0.150	18	0.000	0.150					1,584.00	1,584.00	1,062		17							
TOTAL FOR MAP NO. 10								**0.150**								**1,584.00**	**1,584.00**	**1,062**		**17**							
2027CPT.08.03.20772	Richmond	11	SR-1208 / WATERS AV	FROM SR 1109 (ZION CHURCH RD.) TO SR 1209 (ROCKY LN.)	2	2	2WU	0.070	18	0.000	0.070					740.00	740.00	496		8							
TOTAL FOR MAP NO. 11								**0.070**								**740.00**	**740.00**	**496**		**8**							
2027CPT.08.03.20772	Richmond	12	SR-2047 / CIRCLE DR	FROM SR 2068 (COLLINS CHURCH RD.) TO SR 2056 (CIRCLE DR. LN.)	2	2	2WU	0.080	20	0.000	0.080				2	939.00	939.00	630		9							
TOTAL FOR MAP NO. 12								**0.080**							**2**	**939.00**	**939.00**	**630**		**9**							
2027CPT.08.03.20772	Richmond	13	SR-2060 / LINCOLN AV	FROM SR 1108 (MIZPAH RD.) TO .089 MI FROM SR 1108 (MIZPAH RD.)	2	2	2WU	0.090	20	0.000	0.090					1,056.00	1,056.00	708		10							
TOTAL FOR MAP NO. 13								**0.090**								**1,056.00**	**1,056.00**	**708**		**10**							
2027CPT.08.03.20772	Richmond	14	SR-2072 / SWEETBRIAR LN	FROM SR 2071 (GREENBRIAR LN.) TO D.E.	2	2	2WU	0.100	20	0.000	0.100		1	12		1,451.00	1,451.00	973		11							
TOTAL FOR MAP NO. 14								**0.100**					**1**	**12**		**1,451.00**	**1,451.00**	**973**		**11**							
2027CPT.08.03.20772	Richmond	15	SR-2056 / CIRCLE DRIVE N	FROM SR 1241 (SANDHILL RD.) TO SR 2047 (CIRCLE DR.)	2	2	2WU	0.080	20	0.000	0.080					939.00	939.00	567		9							
TOTAL FOR MAP NO. 15								**0.080**								**939.00**	**939.00**	**567**		**9**							
2027CPT.08.03.20772	Richmond	16	SR-1670 / PINELEIGH AV	FROM US HWY 74 BUS. W. TO SR 1720 (DEVOS DR.)	1	2	2WU	0.380	26	0.000	0.380		3	65		4,165.00	4,327.00	2,810		42							
TOTAL FOR MAP NO. 16								**0.380**					**3**	**65**		**4,165.00**	**4,327.00**	**2,810**		**42**							
2027CPT.08.03.20772	Richmond	17	SR-1110 / CHURCH ST	FROM SR 1103 (OLD CHERAW HWY.) TO SR 1172 (4TH ST.)	2	2	2WU	0.700	22	0.000	0.700		2	43		9,681.00	9,681.00	6,487		78		13,580	13,400	118	190	12	3
TOTAL FOR MAP NO. 17								**0.700**					**2**	**43**		**9,681.00**	**9,681.00**	**6,487**		**78**		**13,580**	**13,400**	**118**	**190**	**12**	**3**
2027CPT.08.03.20772	Richmond	18	SR-1112 / 8TH ST	FROM SR 1110 (CHURCH ST.0 TO SR 1109 (ZION CHURCH RD.)	2	2	2WU	0.680	18	0.000	0.680		1	24		7,181.00	7,181.00	4,812		76							
TOTAL FOR MAP NO. 18								**0.680**					**1**	**24**		**7,181.00**	**7,181.00**	**4,812**		**76**							
2027CPT.08.03.20772	Richmond	19	SR-2071 / GREENBRIAR LN	FROM SR 1966 (AIRPORT RD.) TO D.E.	2	2	2WU	0.370	20	0.000	0.370		2	35		4,692.00	4,692.00	3,144		41							
TOTAL FOR MAP NO. 19								**0.370**					**2**	**35**		**4,692.00**	**4,692.00**	**3,144**		**41**							
2027CPT.08.03.20772	Richmond	20	SR-1720 / DEVOS DR	FROM END OF MAINT. TO D.E.	2	2	2WU	0.470	20	0.000	0.470		1	19		5,871.00	5,871.00	3,934		53							
TOTAL FOR MAP NO. 20								**0.470**					**1**	**19**		**5,871.00**	**5,871.00**	**3,934**		**53**							
2027CPT.08.03.20772	Richmond	21	SR-1726 / JUDITH ANN DR.	FROM SR 1720 (DEVOS DR.) TO D.E.	2	2	2WU	0.120	20	0.000	0.120				4	1,764.00	1,764.00	1,182		13							
TOTAL FOR MAP NO. 21								**0.120**							**4**	**1,764.00**	**1,764.00**	**1,182**		**13**							
2027CPT.08.03.20772	Richmond	22	SR-2075 / SHELL DR	FROM SR 2065 (STURDIVANT DR.) TO +/-.103 FROM SR 2065 (STURDIVANT DR.)	2	2	2WU	0.100	20	0.000	0.100		6	130		1,182.00	1,182.00	792		11							
TOTAL FOR MAP NO. 22								**0.100**					**6**	**130**		**1,182.00**	**1,182.00**	**792**		**11**							
2027CPT.08.03.20772	Richmond	23	SR-1515 / WOODSIDE DR	FROM SR 1431 (NICHOLSON RD.) TO SR 1431 (NICHOLSON RD)	2	2	2WU	0.490	20	0.000	0.490		2	34		5,750.00	5,750.00	3,853	*	55	*	10,360	10,360				
TOTAL FOR MAP NO. 23								**0.490**					**2**	**34**		**5,750.00**	**5,750.00**	**3,853**	*	**55**	*	**10,360**	**10,360**				

PROJECT NO.	SHEET NO.	TOTAL NO.
2027CPT.08.03.20772	**11**	**12**

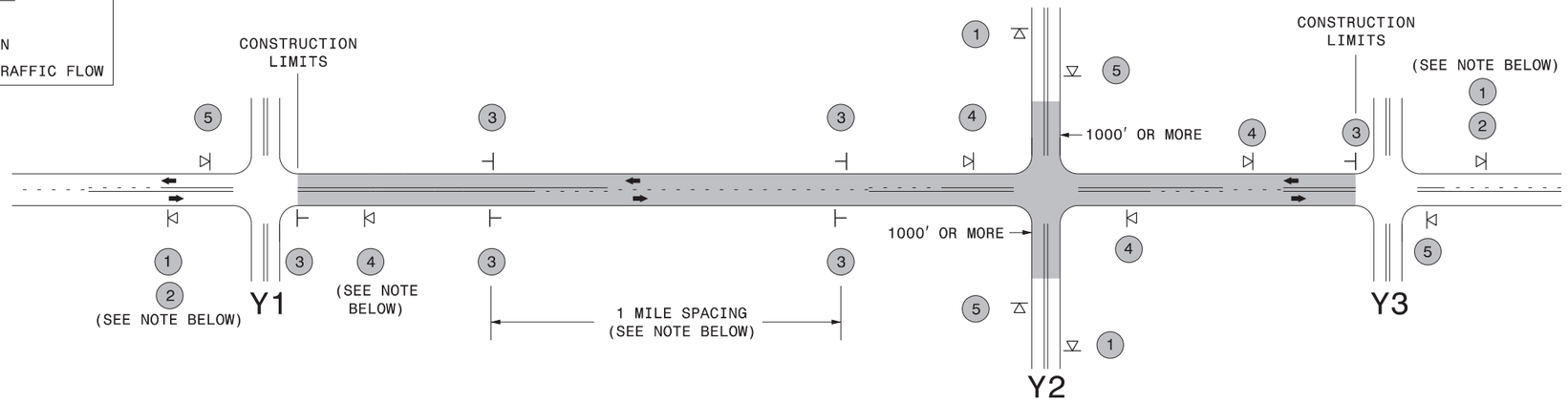
SUMMARY OF QUANTITIES

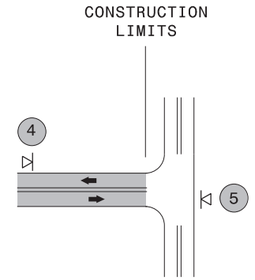
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PROJECT NO	**COUNTY**	**MAP NO**	**ROUTE**	**DESCRIPTION**	**TYP NO**	**LANES**	**LANE TYPE**	**LENGTH**	**WIDTH**	**BEGIN MP**	**END MP**		**ASPHALT BINDER FOR PLANT MIX**	**PATCHING EXISTING PAVEMENT**	**ASPHALT SURFACE TREATMENT, DOUBLE SEAL**	**ASPHALT SURFACE TREATMENT, FOG SEAL**	**EMULSION FOR ASPHALT SURFACE TREATMENT**	**VACUUM TRUCK**	**WORK ZONE ADVANCE/GENERAL WARNING SIGNING**	**TEMPORARY TRAFFIC CONTROL**	**6" WHITE PAINT**	**6" YELLOW PAINT**	**8" YELLOW PAINT**	**24" WHITE PAINT**	**PAINT MSG SCHOOL**	**PAINT RT ARROW**
								MI	**FT**				**TONS**	**TONS**	**SY**	**SY**	**GAL**	**WK**	**SF**	**LS**	**LF**	**LF**	**LF**	**LF**	**EA**	**EA**
2027CPT.08.03.20772	Richmond	24	SR-1548 / PINECROFT ST	FORM SR 1513 (SPRING DR.) TO SR 1431 (NICHOLSON RD.)	2	2	2WU	0.140	19	0.000	0.140				1,561.00	1,561.00	1,046		16		2,800	2,800				
TOTAL FOR MAP NO. 24								**0.140**							**1,561.00**	**1,561.00**	**1,046**		**16**		**2,800**	**2,800**				
2027CPT.08.03.20772	Richmond	25	SR-1520 / FOREST DR	FROM SR 1519 (ROSA ST.) TO SR 1518 (SALEM DR.)	2	2	2WU	0.120	18	0.000	0.120			5	1,479.00	1,479.00	991		13							
TOTAL FOR MAP NO. 25								**0.120**						**5**	**1,479.00**	**1,479.00**	**991**		**13**							
2027CPT.08.03.20772	Richmond	26	SR-1537 / FAIRLEY DR	FROM SR 1418 (NATHAN RD.) TO SR 1418 (NATHAN RD.)	2	2	2WU	0.250	16.5	0.000	0.250			3	2,420.00	2,420.00	1,622		28							
TOTAL FOR MAP NO. 26								**0.250**						**3**	**2,420.00**	**2,420.00**	**1,622**		**28**							
2027CPT.08.03.20772	Richmond	27	SR-2067 / COLLINS CHURCH RD	FROM SR 2010 COLLINS CHURCH RD.) TO +/-.104MI FROM SR 2010 (COLLINS CHURCH RD.)	2	2	2WU	0.170	19	0.000	0.170				1,895.00	1,895.00	1,270		19							
TOTAL FOR MAP NO. 27								**0.170**							**1,895.00**	**1,895.00**	**1,270**		**19**							
2027CPT.08.03.20772	Richmond	28	SR-2069 / COLLINS CHURCH RD	FROM SR 2068 (COLLINS CHURCH RD.) TO SR 2067 (COLLINS CHURCH RD.)	2	2	2WU	0.070	20	0.000	0.070				822.00	822.00	551		8							
TOTAL FOR MAP NO. 28								**0.070**							**822.00**	**822.00**	**551**		**8**							
2027CPT.08.03.20772	Richmond	29	SR-1993 / JENKINS COVINGTON RD	FROM SR 1108 (MIZPAH RD.) TO +/-.221MI FROM SR 1108 (MIZPAH RD.)	2	2	2WU	0.220	20	0.000	0.220				2,582.00	2,582.00	1,730		27							
TOTAL FOR MAP NO. 29								**0.220**							**2,582.00**	**2,582.00**	**1,730**		**27**							
2027CPT.08.03.20772	Richmond	30	SR-1109 / 1ST ST	FROM SR 1115 (7TH ST.) TO SR 1108 (ROSALYN RD.)	2	2	2WU	0.600	22.5	3.890	4.490		1	17	8,470.00	8,470.00	5,675		67							
TOTAL FOR MAP NO. 30								**0.600**					**1**	**17**	**8,470.00**	**8,470.00**	**5,675**		**67**							
2027CPT.08.03.20772	Richmond	31	SR-2015 / WADDELL RD	FROM SR 1108 (MIZPAH RD.) TO D.E.	2	2	2WU	0.260	20	0.000	0.260				3,051.00	3,051.00	2,045		29							
TOTAL FOR MAP NO. 31								**0.260**							**3,051.00**	**3,051.00**	**2,045**		**29**							
2027CPT.08.03.20772	Richmond	32	SR-1168 / JACK CURRIE RD	FROM NC HWY 109 TO SR 1148 (GRASSY ISLAND RD)	2	2	2WU	1.038	17	0.000	1.038		3	61	10,353.00	10,353.00	6,937		116		21,940	16,190				
TOTAL FOR MAP NO. 32								**1.038**					**3**	**61**	**10,353.00**	**10,353.00**	**6,937**		**116**		**21,940**	**16,190**				
2027CPT.08.03.20772	Richmond	33	SR-1560 / DENSON RUN	FROM SR 1553 (BEANE RUN) TO D.E.	2	2	2WU	0.130	20	0.000	0.130			4	1,748.00	1,748.00	1,172		15							
TOTAL FOR MAP NO. 33								**0.130**						**4**	**1,748.00**	**1,748.00**	**1,172**		**15**							
TOTAL FOR PROJ NO. 2027CPT.08.03.20772								**8.858**					**24**	**521**	**105207.00**	**105600.00**	**70617.00**	*	**994**	*	**58400**	**52470**	**118.000**	**190.000**	**12.000**	**3.000**
																					110,870					
GRAND TOTAL								**8.858**					**24**	**521**	**105,207.00**	**105,600.00**	**70,617**	**5.00**	**994**	**1**	**58,400**	**52,470**	**118**	**190**	**12**	**3**
																					110,870					

PROJ. REFERENCE NO.	SHEET NO.
2027CPT.08.03.20772	TMP-1

SIGNING FOR ASPHALT SURFACE TREATMENT

LEGEND
- PORTABLE SIGN
- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW





TEE INTERSECTION

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1 — ROAD WORK AHEAD — W20-1 — 48" X 48"
2 — NEXT XX MILES — W7-3aP — 24" X 18"
- PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.
- 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.

3 — LOOSE GRAVEL — W8-7 — 48" X 48"
UNMARKED PAVEMENT — SP — 48" X 48"
- ALTERNATE THE FOLLOWING TWO SIGNS:
- STARTING WITH "LOOSE GRAVEL" (W8-7) FOLLOWED BY "UNMARKED PAVEMENT".
- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER.
- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.

4 — ROAD UNDER CONST — SP 13106 — 48" X 48"
- 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.

5 — END ROAD WORK — G20-2 A — 48" X 24"
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 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.

-Y- LINE SIGNING

STATIONARY SIGNING NOT REQUIRED 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 SHALLE BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

ROAD WORK AHEAD — W20-1 — 48" X 48"
PLACED 500' IN ADVANCE OF FLAGGER.

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

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

ADVANCE WARNING SIGNS FOR 2-LANE ROADWAY ASPHALT SURFACE TREATMENT

5/12/2017
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User:kedris