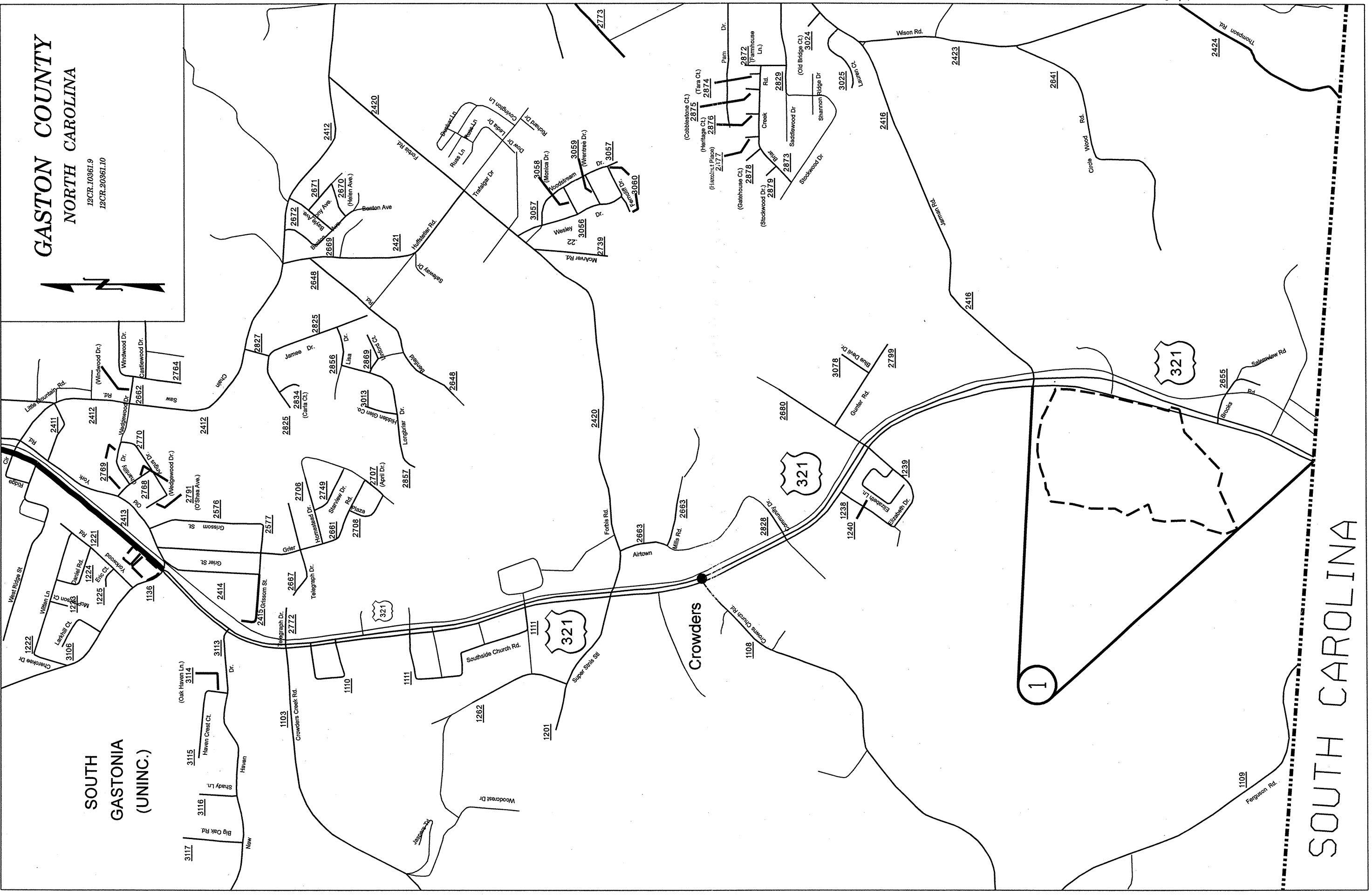


GASTON COUNTY  
NORTH CAROLINA

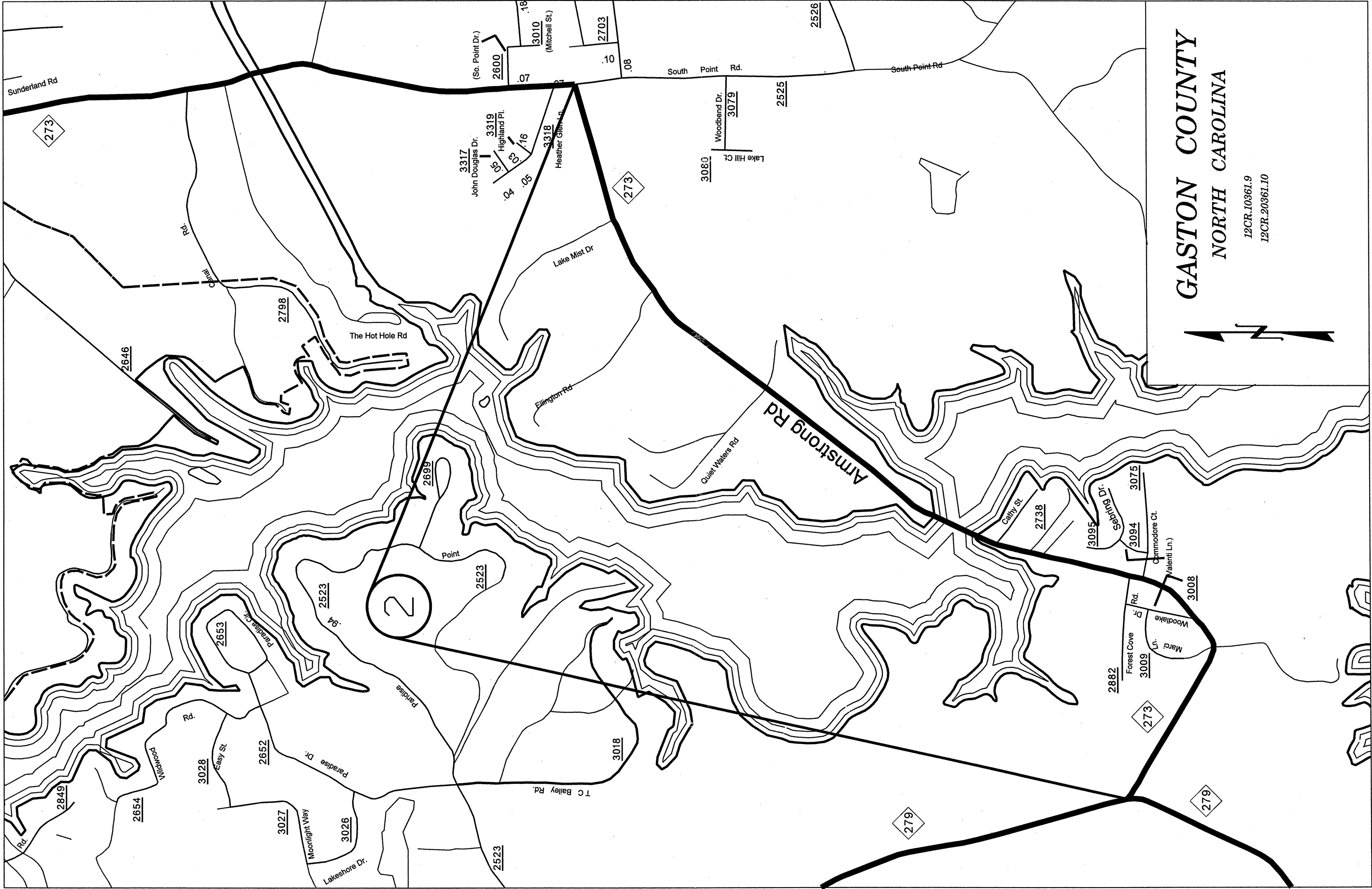
12CR.10361.9  
12CR.20361.10

Sheet 1



SOUTH  
GASTONIA  
(UNINC.)

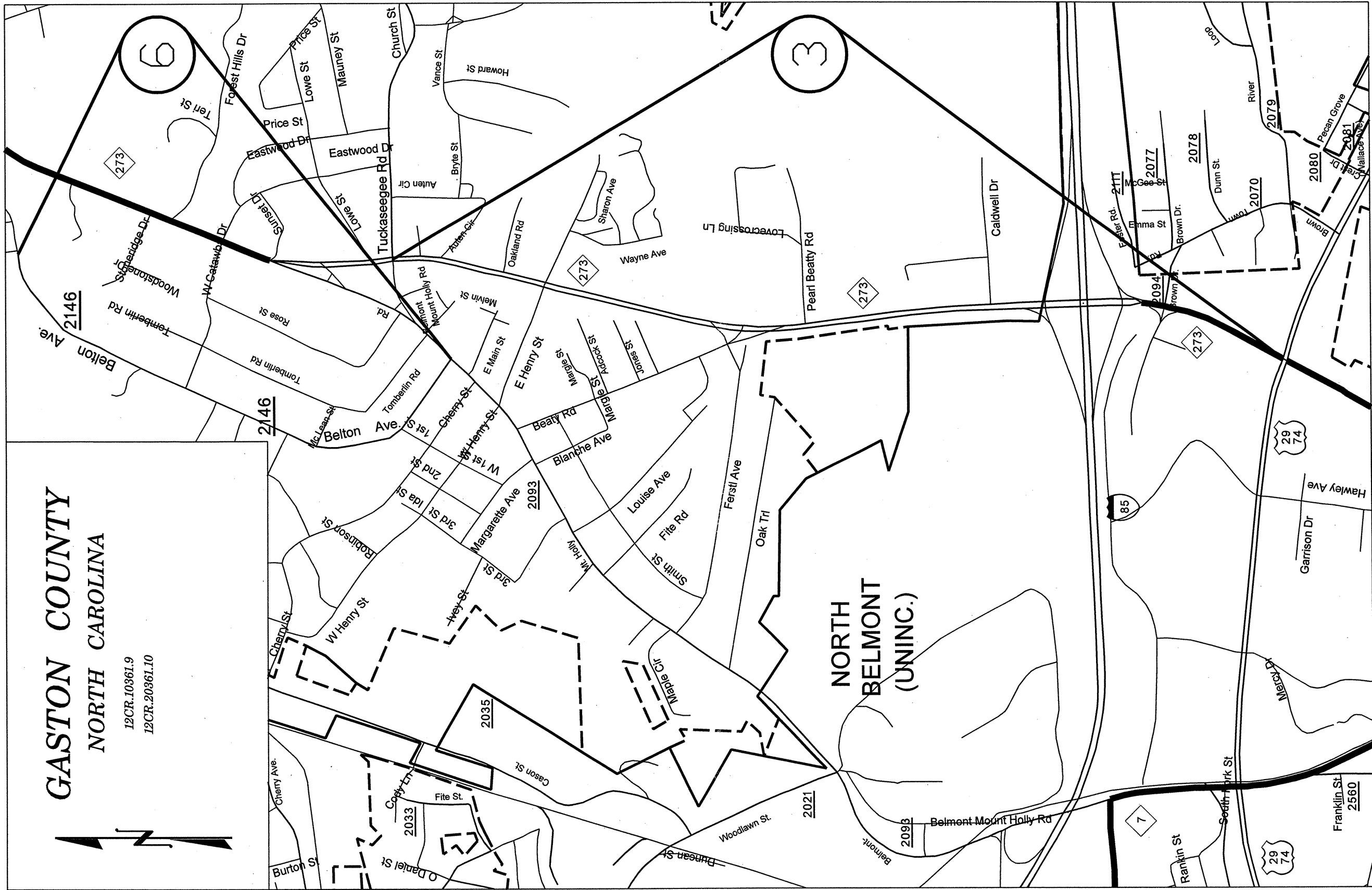
SOUTH CAROLINA



**GASTON COUNTY**  
**NORTH CAROLINA**

12CR.10361.9  
 12CR.20361.10





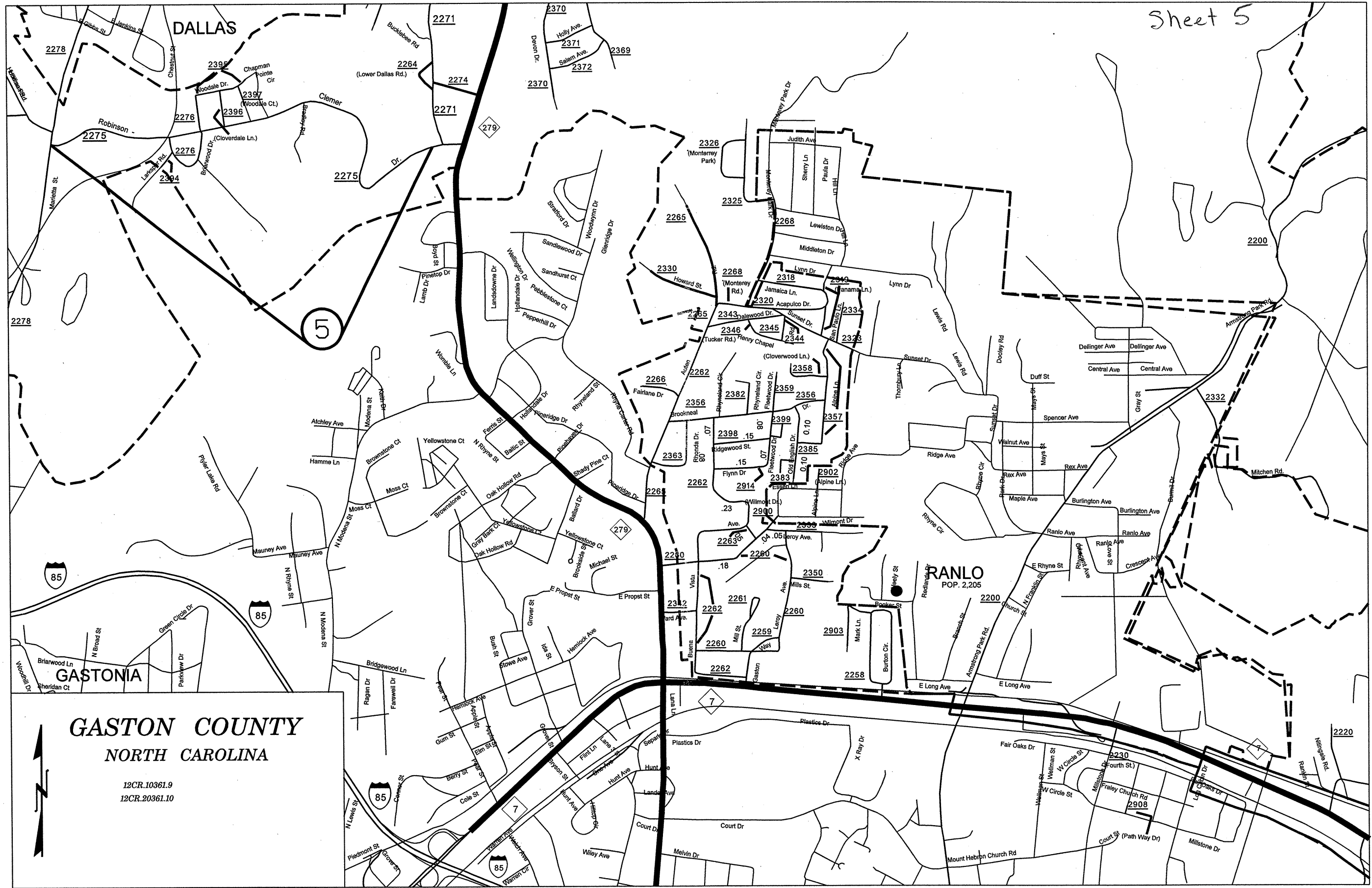
**GASTON COUNTY**  
**NORTH CAROLINA**

12CR.10361.9  
 12CR.20361.10



**NORTH BELMONT (UNINC.)**





**GASTON COUNTY**  
**NORTH CAROLINA**

12CR.10361.9  
 12CR.20361.10

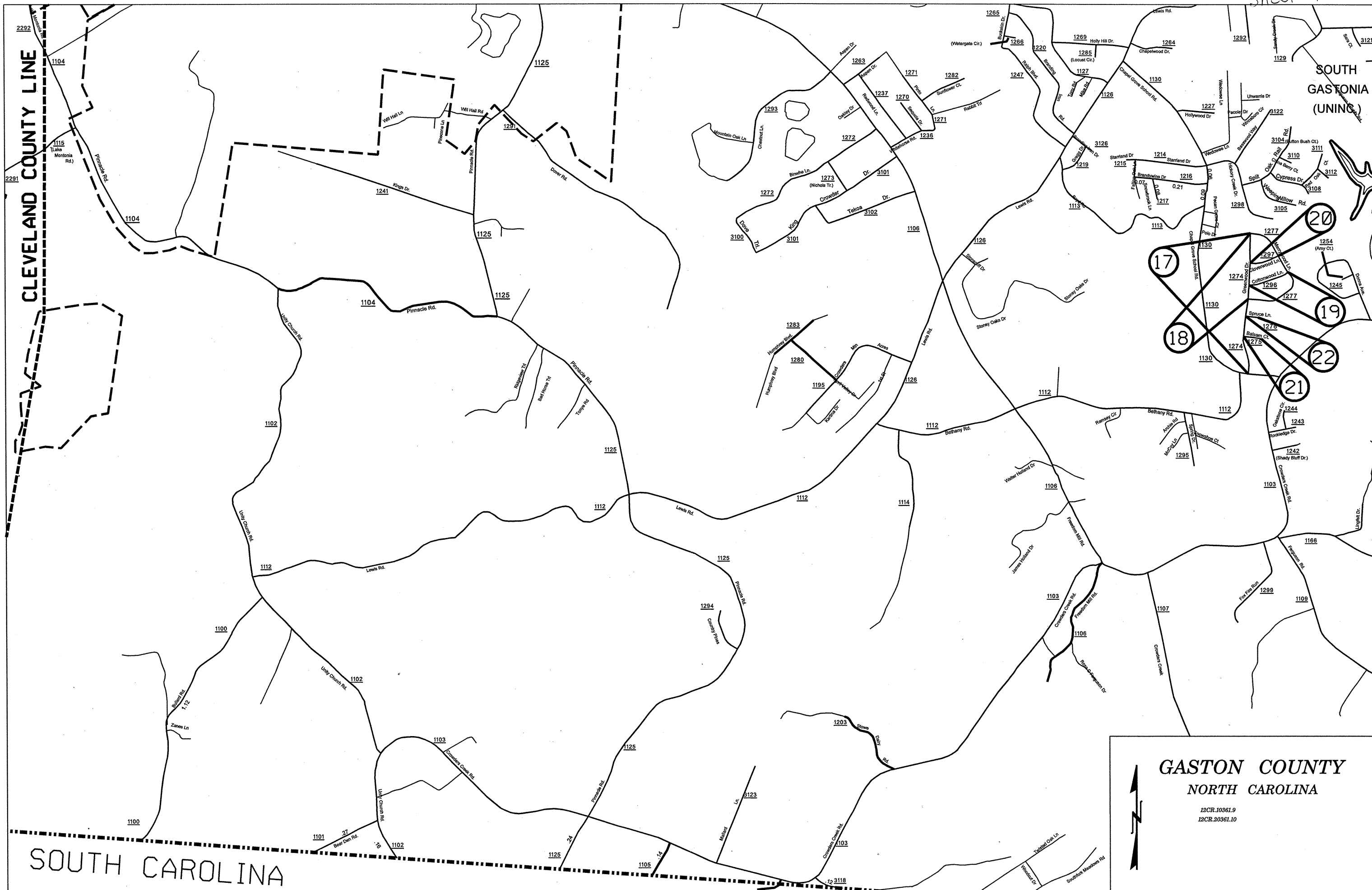


Sheet 6

# GASTON COUNTY NORTH CAROLINA

12CR.10361.9  
12CR.20361.10





**GASTON COUNTY**  
**NORTH CAROLINA**  
 12CR.10361.9  
 12CR.20361.10

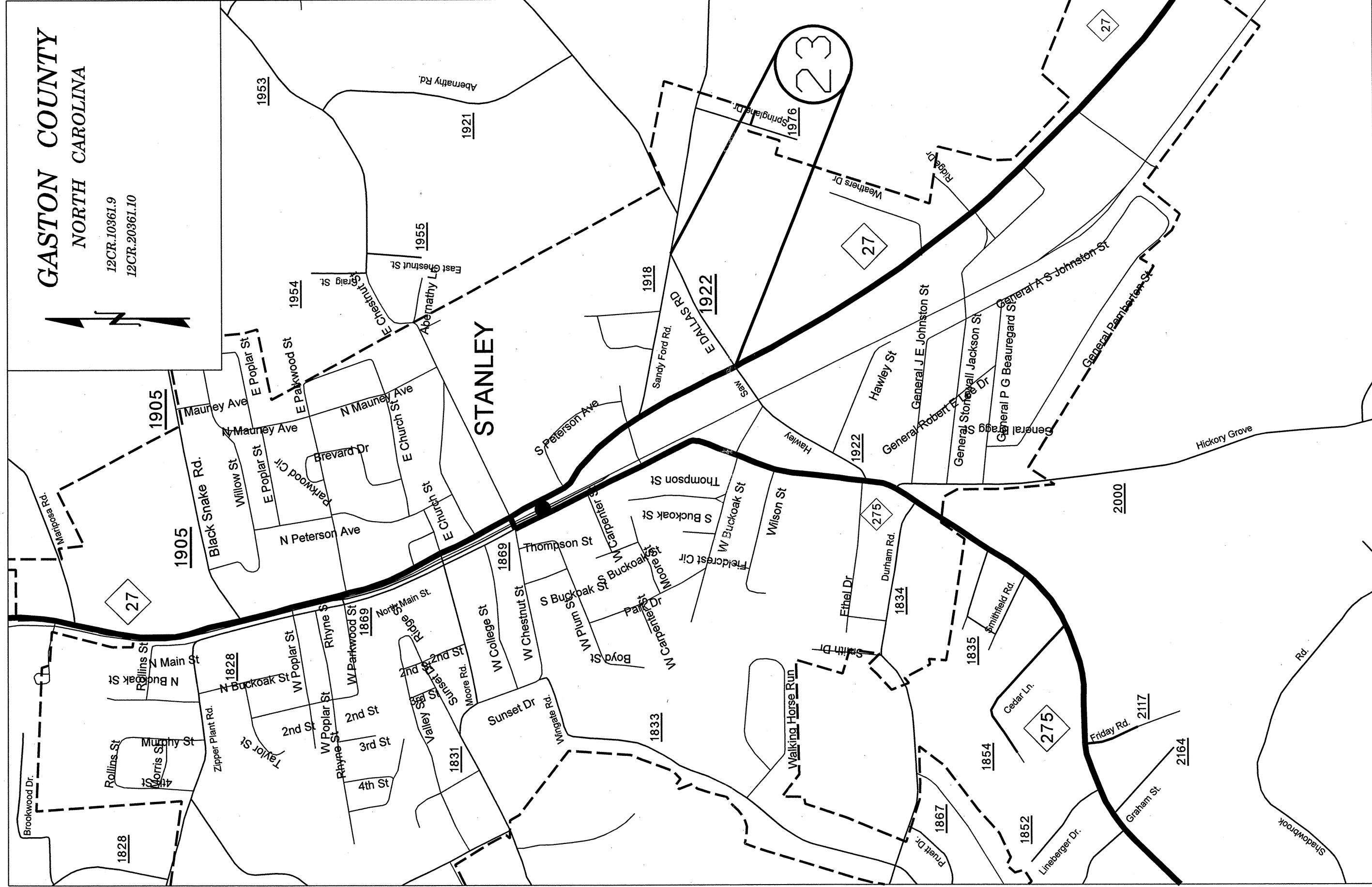


GASTON COUNTY  
NORTH CAROLINA

12CR.10361.9  
12CR.20361.10



Sheet 8

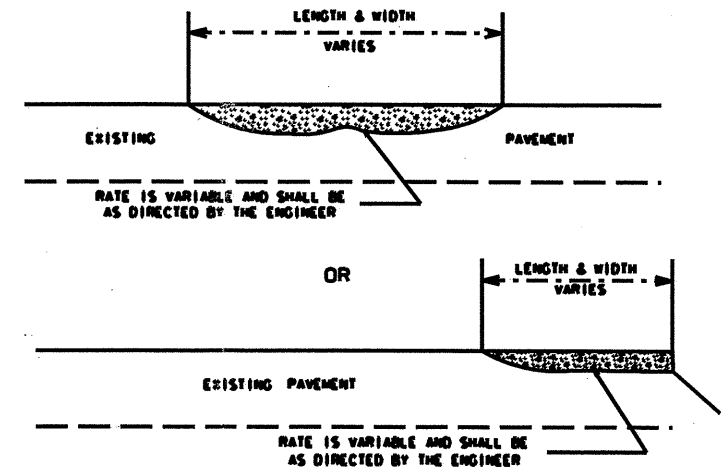
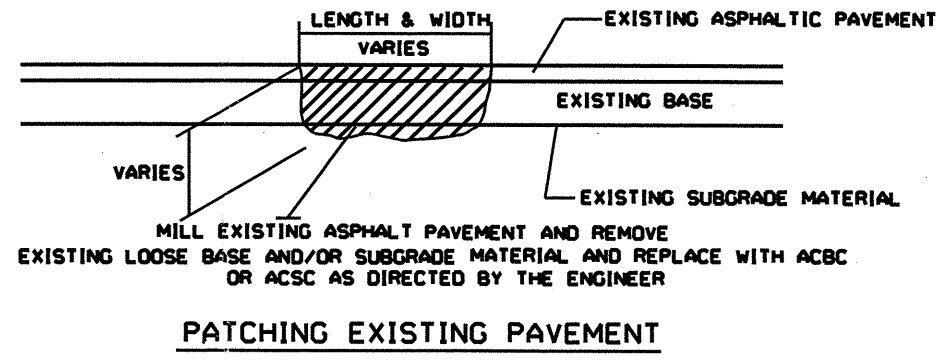




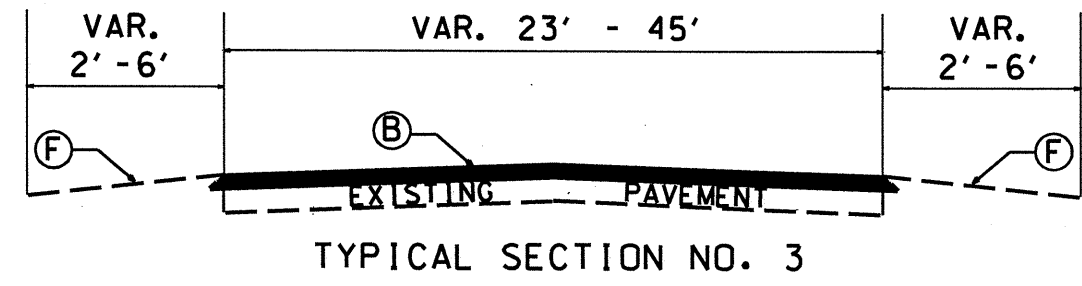
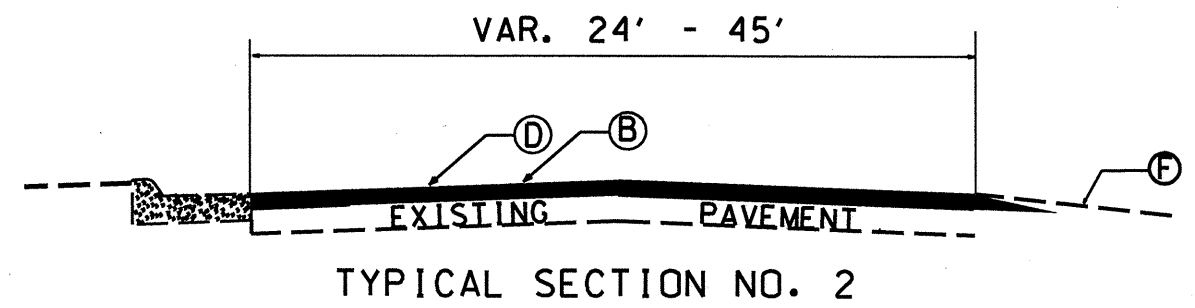
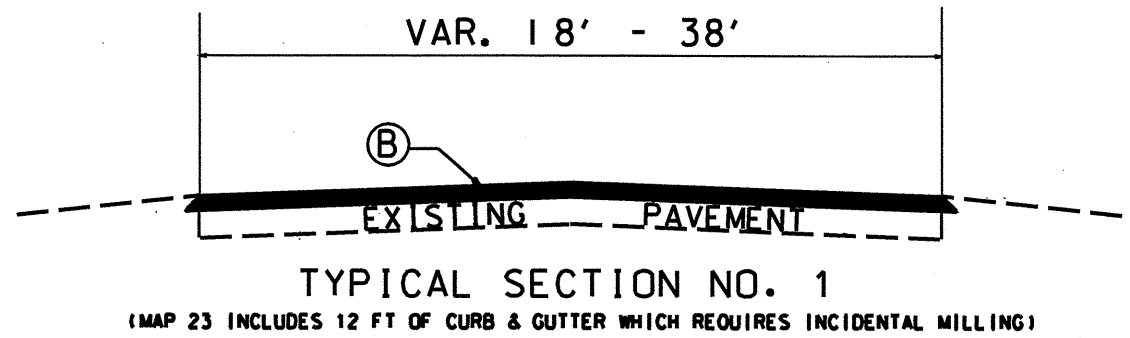
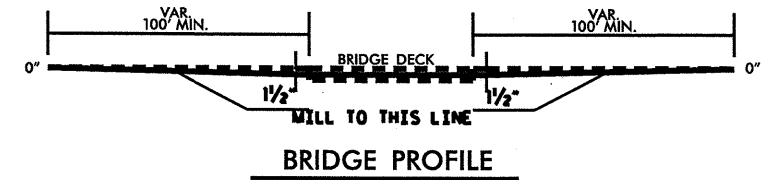
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
GASTON COUNTY 2009	9	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
12CR.10361.9		
12CR.10361.10		

PAVEMENT SCHEDULE	
A	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
B	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D	MILL ASPHALT PAVEMENT APPROX. 1½" AS DIRECTED BY ENGINEER
E	MILL ASPHALT PAVEMENT APPROX. 3" - 4.5" AS DIRECTED BY ENGINEER
F	SHOULDER RECONSTRUCTION

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.  
MILL BRIDGE APPROACHES 100' TO PROVIDE A SMOOTH TRANSITION AS DIRECTED.  
MILL INTO GUTTER LINE WHERE SHOWN AND AS DIRECTED.



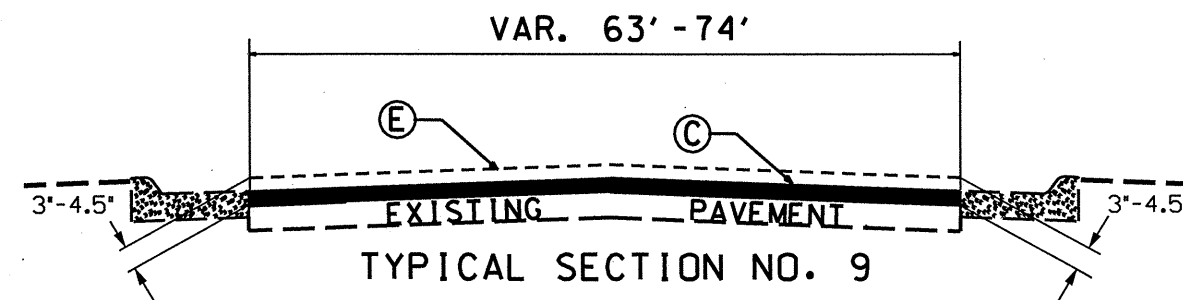
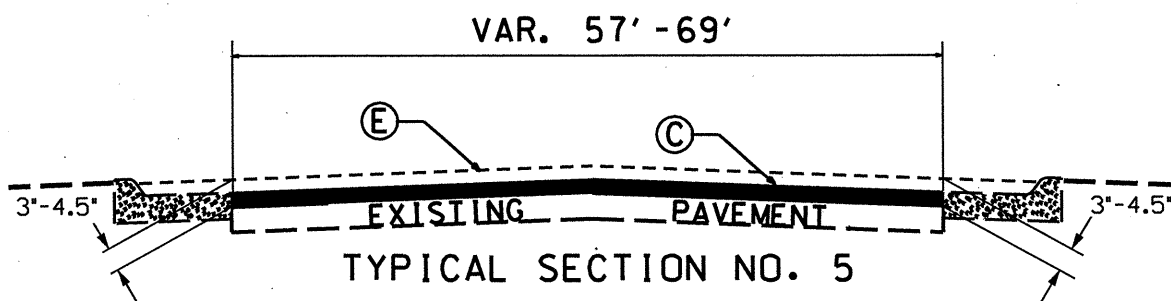
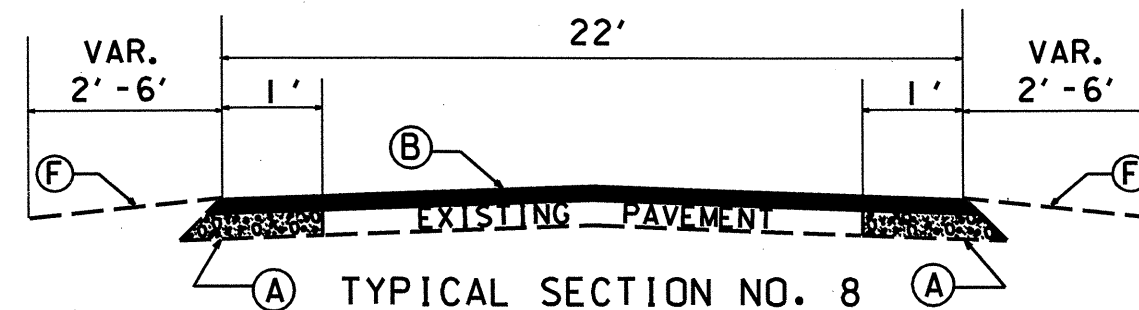
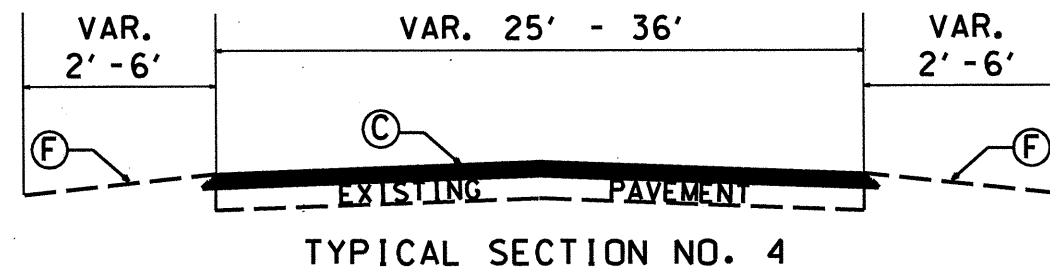
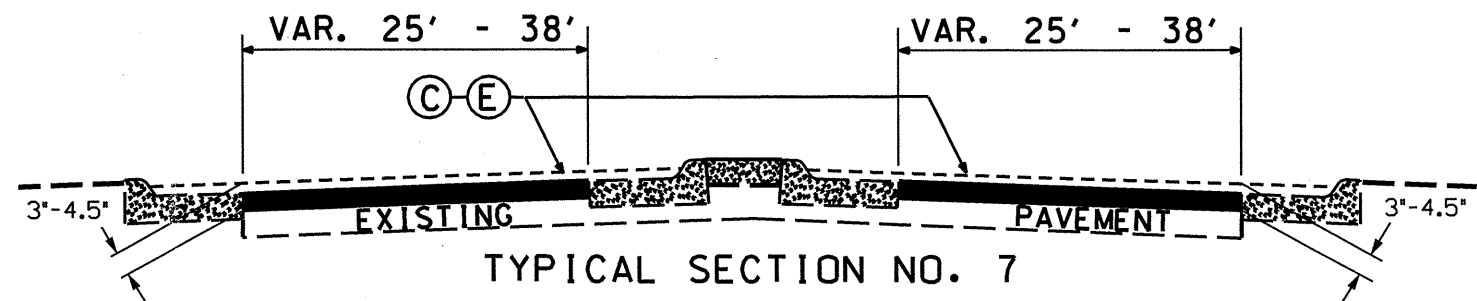
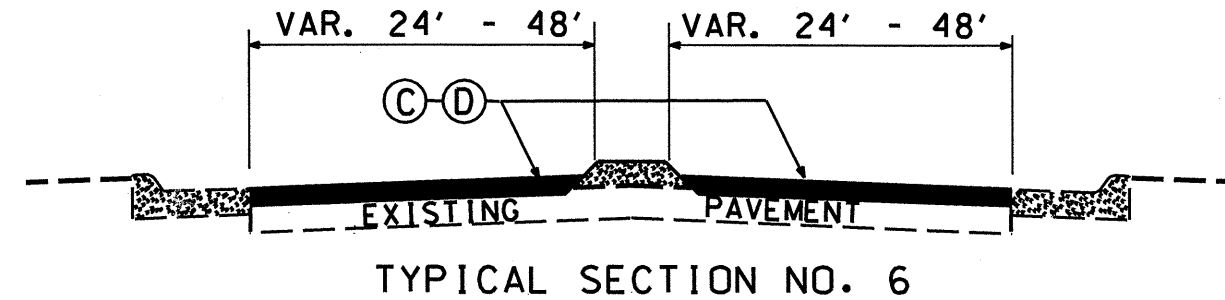
ASPHALT CONCRETE SURFACE COURSE  
TYPE S9.5B. (LEVELING COURSE)



PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
GASTON COUNTY 2009	10	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
12CR.10361.9		
12CR.10361.10		

PAVEMENT SCHEDULE	
A	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
B	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D	MILL ASPHALT PAVEMENT APPROX. 1½" AS DIRECTED BY ENGINEER
E	MILL ASPHALT PAVEMENT APPROX. 3" - 4.5" AS DIRECTED BY ENGINEER
F	SHOULDER RECONSTRUCTION

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.  
MILL BRIDGE APPROACHES 100' TO PROVIDE A SMOOTH TRANSITION AS DIRECTED.  
MILL INTO GUTTER LINE WHERE SHOWN AND AS DIRECTED.



PROJECT NO.	SHEET NO.	TOTAL NO.
12CR.10361.9	11	
12CR.20361.10		

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	1 1/2" MILLING SY	3" TO 4.5" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	LEVELING COURSE, S9.5B TONS	SURFACE COURSE, S9.5C TONS	LEVELING COURSE, S9.5C TONS	PG 64-22 PLANT MIX TONS	PG 70-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	MANHOLES EA	PORTABLE LIGHTING LS	METER OR VALVE BOX EA
12CR.10361.9	Gaston	1	US 321 S (YORK HWY) SOUTHBOUND	SR 2416 TO SC STATELINE	4	0.88	VAR. 25-36		1.76			600				1,262	92		82	295			
		2	NC 273 (ARMSTRONG RD)	NC 279 TO SR 2525	2 3	0.04 2.36	VAR. 24-45 VAR. 23-45	30	4.76	720		550		3,297	174			209		715			
		3	NC 273 (BEATTY DR)	US 29/74 TO TUCKASEEGEE RD	5 6 7 9	0.92 0.26 0.24 0.25	VAR. 57-69 VAR. 62-84 VAR. 53-66 VAR. 63-74			14460	57290				6,028	288		379	881	6	1	4	
		4	NC 274 (TRYON COURTHOUSE RD)	NC 216 TO SUNNYSIDE (SR 1408)	8	3.33	22	150	6.66				1656	3,994	1,000			371		513			
<b>TOTAL FOR PROJ NO. 12CR.10361.9</b>						<b>8.28</b>		<b>180</b>	<b>13.18</b>	<b>15180</b>	<b>57290</b>	<b>1150</b>	<b>1656</b>	<b>7291</b>	<b>1174</b>	<b>7290</b>	<b>380</b>	<b>580</b>	<b>461</b>	<b>2404</b>	<b>6</b>		<b>4</b>
12CR.20361.10	Gaston	5	SR 2275 (ROBINSON-CLEMMER RD)	100' W OF SR 2271 TO SR 2278	1	1.34	VAR. 20-32	80						1,500	82			95		298			
		6	SR 2146 (BELTON AVE)	SR 2093 TO MT. HOLLY CL	1	1.04	18	50						1,015	80			66		125	4		3
		7	SR 2662 (FOXCROFT DR)	SR 2412 TO SR 2764	1	0.08	20	5						87	8			6		22			
		8	SR 2764 (WINDWOOD DR)	D. END TO D. END	1	0.45	20	10						488	31			31		73			
		9	SR 2748 (CASTLEWOOD DR)	SR 2764 TO DE	1	0.2	20	5						217	13			14		77			
		10	SR 2827 (KAY DR)	SR 2412 TO SR 2825	1	0.08	20							87	12			6		23			
		11	SR 2825 (JAMEE DR)	D. END TO D. END	1	0.49	20	10						532	38			34		91			
		12	SR 2834 (CARLA CT)	SR 2825 TO CULDESAC	1	0.07	20							76	14			5		26			
		13	SR 2856 (LISA DR)	SR 2825 TO DE	1	0.23	20	10						250	13			16		31			
		14	SR 2869 (OLD BRIAR LN & LINFORD CT)	SR 2857 TO DE	1	0.15	20							163	8			10		18			
		15	SR 2857 (LONGBRIAR DR)	SR 2856 TO CULDESAC	1	0.43	20	10						466	29			30		51			
		16	SR 3013 (HIDDEN GLEN CT)	SR 2857 TO DE	1	0.11	20							120	15			8		25			
		17	SR 1274 (GREENWOOD DR)	SR 1130 TO SR 1277	1	0.56	20							607	49			40		181			
		18	SR 1277 (MERRYWOOD LN)	SR 1274 TO SR 1274	1	0.48	20	10						521	27			33		72			
		19	SR 1296 (COTTONWOOD LN)	SR 1274 TO SR 1277	1	0.16	20							174	12			11		53			
		20	SR 1297 (CLOVERWOOD LN)	SR 1274 TO SR 1277	1	0.12	20							130	16			9		19			
		21	SR 1275 (BALSAM CT)	SR 1274 TO CULDESAC	1	0.08	20							87	5			6		22			
		22	SR 1276 (SPRUCE LN)	SR 1274 TO CULDESAC	1	0.07	20							76	6			5		31			
		23	SR 1922 (E. DALLAS RD)	NC 27 TO SR 1918	1	0.23	VAR. 20-38	10				100		306	15			19		32			
<b>TOTAL FOR PROJ NO. 12CR.20361.10</b>						<b>6.37</b>		<b>200</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>0</b>	<b>6902</b>	<b>473</b>	<b>0</b>	<b>0</b>	<b>444</b>	<b>0</b>	<b>1270</b>	<b>4</b>	<b>1</b>	<b>3</b>
<b>GRAND TOTAL</b>						<b>14.65</b>		<b>380</b>	<b>13.18</b>	<b>15180</b>	<b>57290</b>	<b>1250</b>	<b>1656</b>	<b>14,193</b>	<b>1,647</b>	<b>7,290</b>	<b>380</b>	<b>1,024</b>	<b>461</b>	<b>3,674</b>	<b>10</b>	<b>1</b>	<b>7</b>

PROJECT NO.	SHEET NO.	TOTAL NO.
12CR.10361.9, 12CR.20361.10	12	

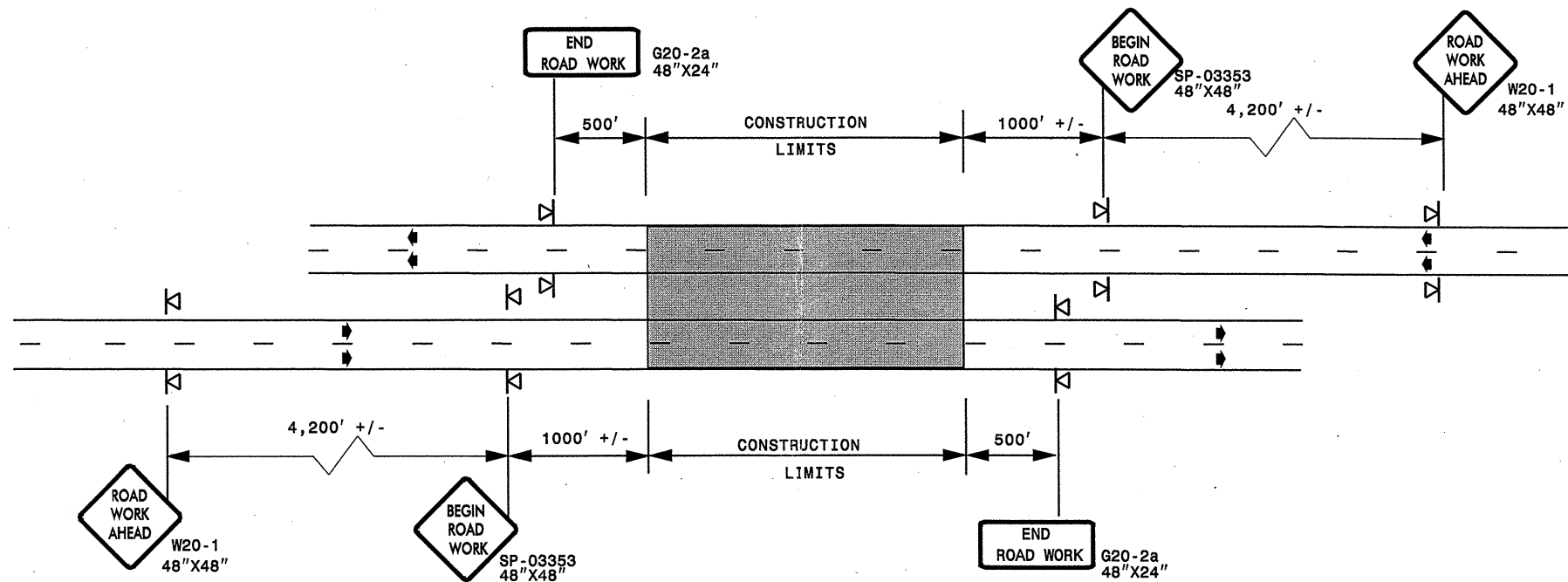
## THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4415000000-N	4420000000-N	4480000000-N	4685000000-E		4686000000-E		4695000000-E		4710000000-E	4721000000-E	4725000000-E				4810000000-E		4820000000-E	4905000000-N
					FAP	CMS	TMIA	4" X 90 M YELLOW THERMO	4" X 90 M WHITE THERMO	4" X 120 M YELLOW THERMO	4" X 120 M WHITE THERMO	8" X 90 M YELLOW THERMO	8" X 90 M WHITE THERMO	24" X 120 M WHITE THERMO	THERMO MSG SCHOOL 120 M EA	THERMO LT ARROW 90 M	THERMO RT ARROW 90 M	THERMO STR & RT ARROW 90 M	THERMO STR ARROW 90 M	4" WHITE PAINT	4" YELLOW PAINT	8" YELLOW PAINT	SNOW PLOWABLE MARKERS
					EA	EA	EA	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	LF	LF	LF	EA	
12CR.10361.9	Gaston	1	US 321 (YORK HWY)	SR 2416 TO SC STATELINE				4,735	4,735		1,500				3							70	
		2	NC 273 (ARMSTRONG RD)	NC 279 TO SR 2525					25,824	25,946	200	100			2	2						220	
		3	NC 273 (BEATTY DR)	US 29/74 TO TUCKASEEGEE RD	1	1	1	2,500		16,300	6,660		310		71	7	1	30	16,300	6,660		1,005	
		4	NC 274 (TRYON COURTHOUSE RD)	NC 226 TO SUNNYSIDE (SR 1408)					35,831	35,214												445	
TOTAL FOR PROJ NO. 12CR.10361.9					1	1	1	7,235	66,390	77,460	8,360	100	310	675	12	76	9	1	30	16,300	6,660		1,740
								73,625		85,820		410			12		116			22,960			
12CR.20361.10	Gaston	5	SR 2275 (ROBINSON-CLEMMER RD)	100' W OF SR 2271 TO SR 2278							120												
		6	SR 2146 (BELTON AVE)	SR 2093 TO MT. HOLLY CL											2								
		7	SR 2662 (FOXCROFT DR)	SR 2412 TO SR 2764																			
		8	SR 2764 (WINDWOOD DR)	D. END TO D. END																			
		9	SR 2748 (CASTLEWOOD DR)	SR 2764 TO DE																			
		10	SR 2827 (KAY DR)	SR 2412 TO SR 2825																			
		11	SR 2825 (JAMEE DR)	D. END TO D. END																			
		12	SR 2834 (CARLA CT)	SR 2825 TO CULDESAC																			
		13	SR 2856 (LISA DR)	SR 2825 TO DE																			
		14	SR 2869 (OLD BRIAR LN & LINFORD CT)	SR 2868 TO DE																			
		15	SR 2857 (LONGBRIAR DR)	SR 2856 TO CULDESAC																			
		16	SR 3013 (HIDDEN GLEN CT)	SR 2857 TO DE																			
		17	SR 1274 (GREENWOOD DR)	SR 1130 TO SR 1277																			
		18	SR 1277 (MERRYWOOD LN)	SR 1297 TO SR 1274																			
		19	SR 1296 (COTTONWOOD LN)	SR 1274 TO SR 1277																			
		20	SR 1297 (CLOVERWOOD LN)	SR 1274 TO SR 1277																			
		21	SR 1275 (BALSAM CT)	SR 1274 TO CULDESAC																			
		22	SR 1276 (SPRUCE LN)	SR 1274 TO CULDESAC																			
		23	SR 1922 (E. DALLAS RD)	NC 27 TO SR 1918										40	2		1		4,900	4,900			
TOTAL FOR PROJ NO. 12CR.20361.10										120				60	4		1		55,300	55,900	240		
GRAND TOTAL					1	1	1	7,235	66,390	77,460	8,480	100	310	735	12	80	9	2	30	71,600	62,560	240	1,740
								73,625		85,940		410			12		121			134,160			



ADVANCE WORK ZONE WARNING SIGNING FOR FREEWAYS (4 LANES OR GREATER)

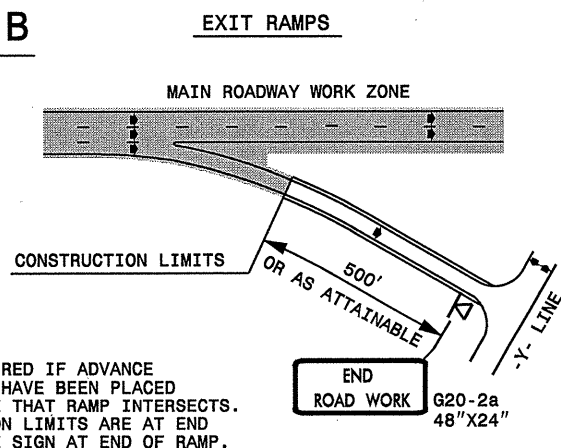
DETAIL A



STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

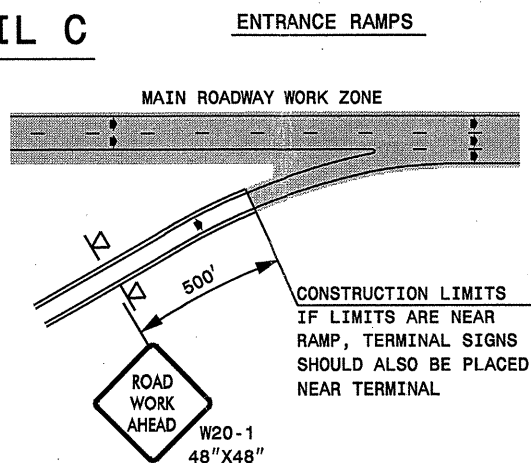
ROADWAYS INTERSECTING ALONG FREEWAY WORK ZONE (Y-LINES)

DETAIL B



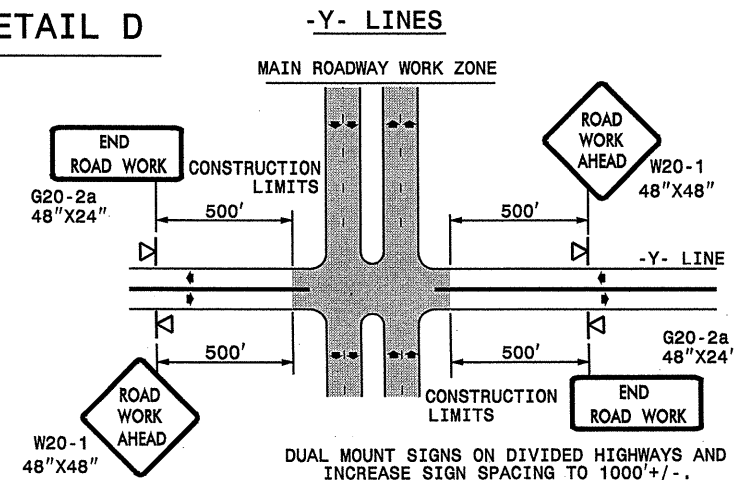
NOTE:  
 SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

DETAIL C



CONSTRUCTION LIMITS IF LIMITS ARE NEAR RAMP, TERMINAL SIGNS SHOULD ALSO BE PLACED NEAR TERMINAL

DETAIL D



DETAIL DRAWING  
 FOR FREEWAYS  
 WORK ZONE WARNING SIGNS  
 (SHORT-DURATION LANE CLOSURES)

GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- \*\* TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

LEGEND

- ◁ PORTABLE SIGN
- ➔ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR FREEWAYS WORK ZONE WARNING SIGNS	
SEAL			
SCALE: NONE	REVISIONS		
DATE: _____	7-98 10/01		
DWG. BY: _____	10-98 03/04		
DESIGN BY: _____	01/01 11/04		
REVIEWED BY: _____			

30-OCT-2008 17:00  
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