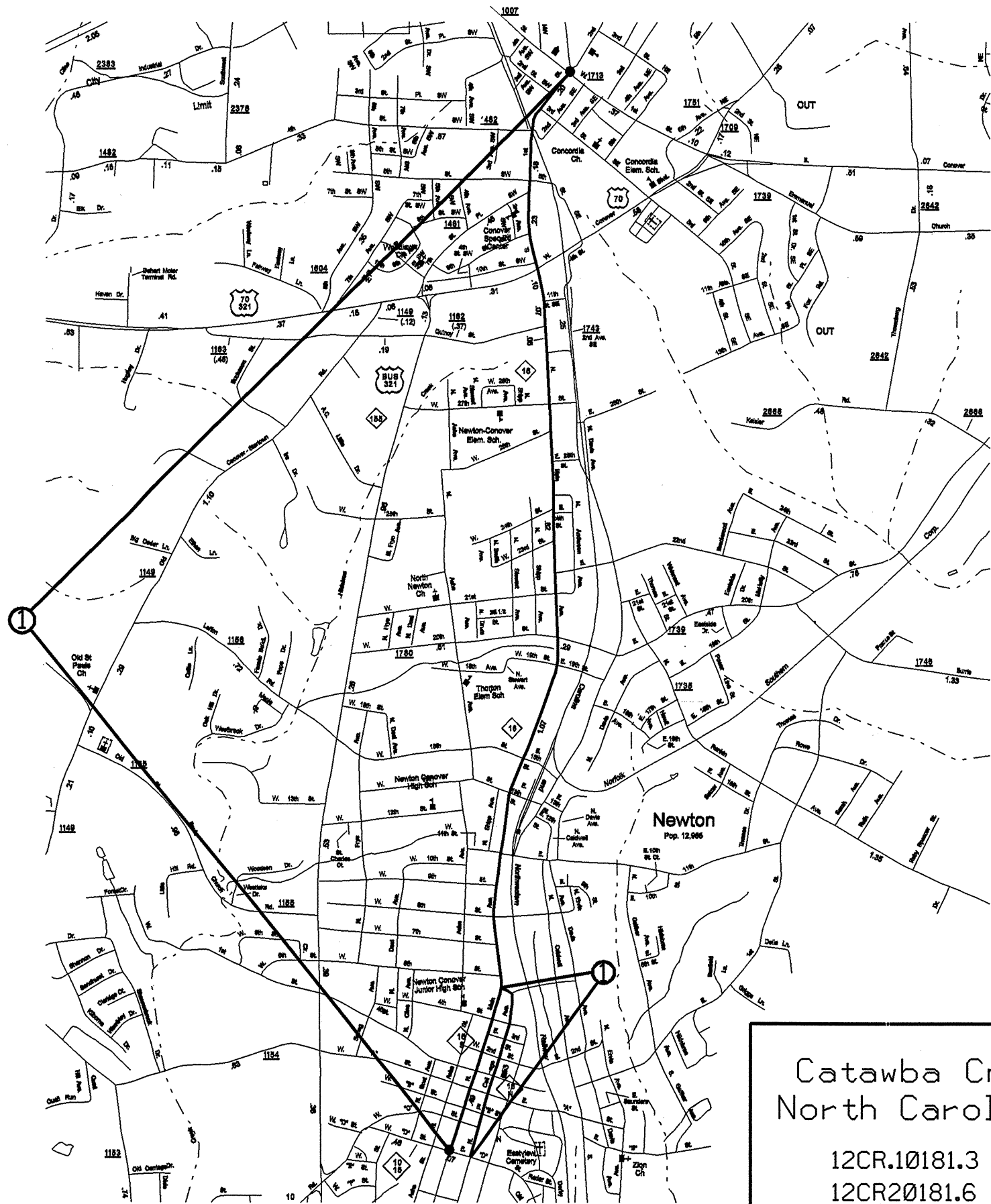
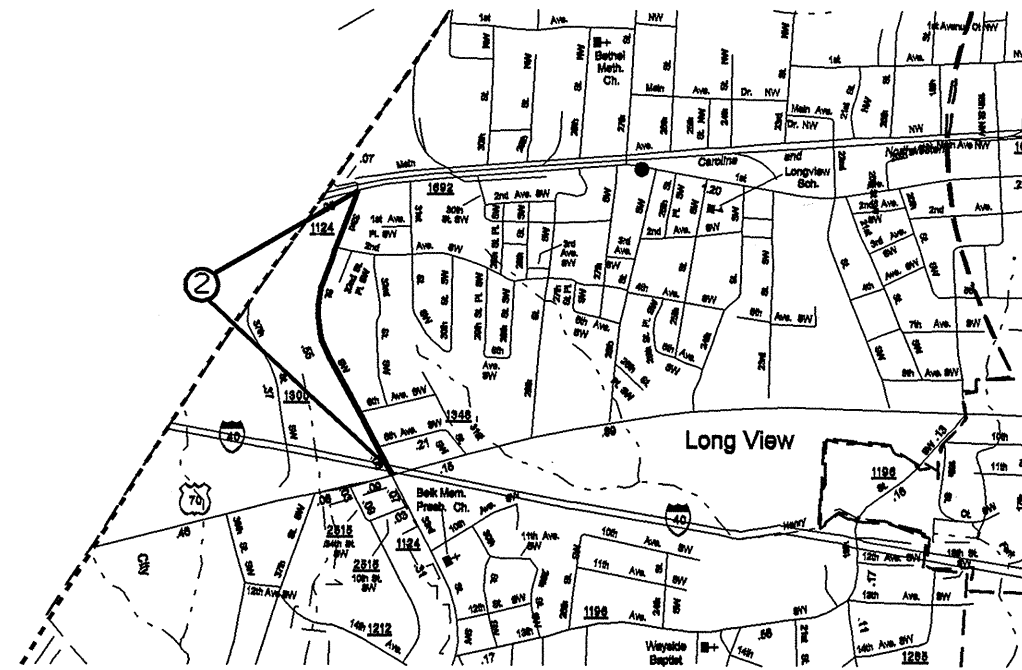
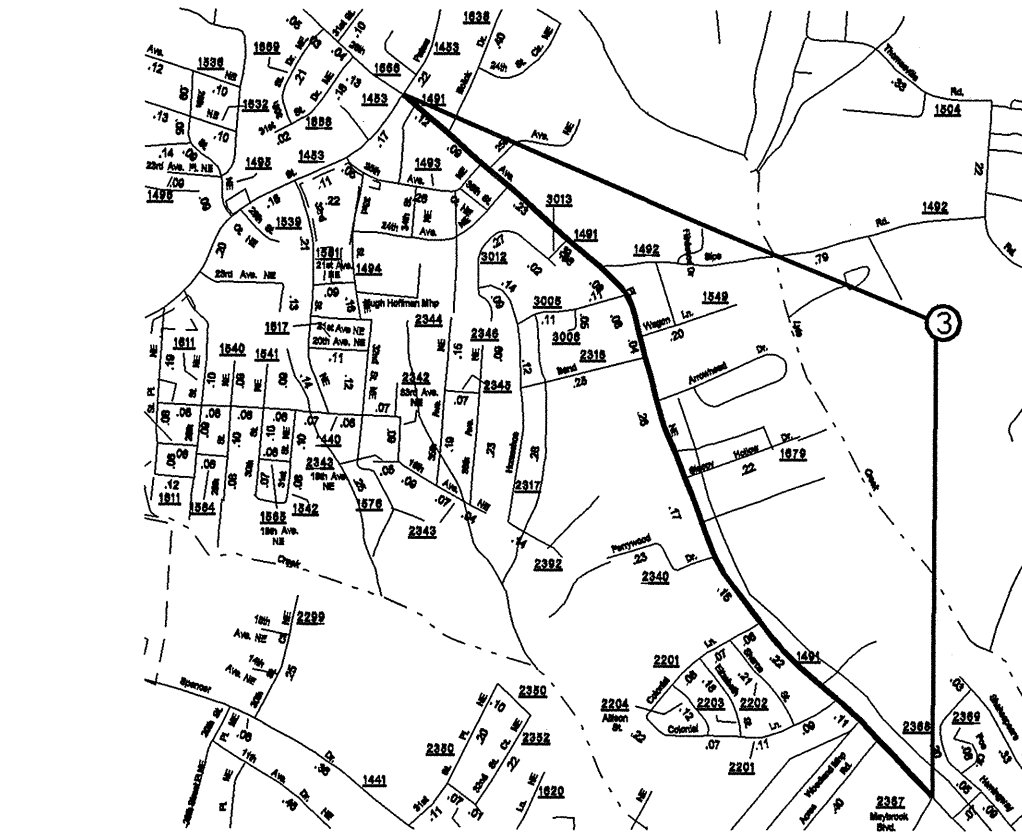


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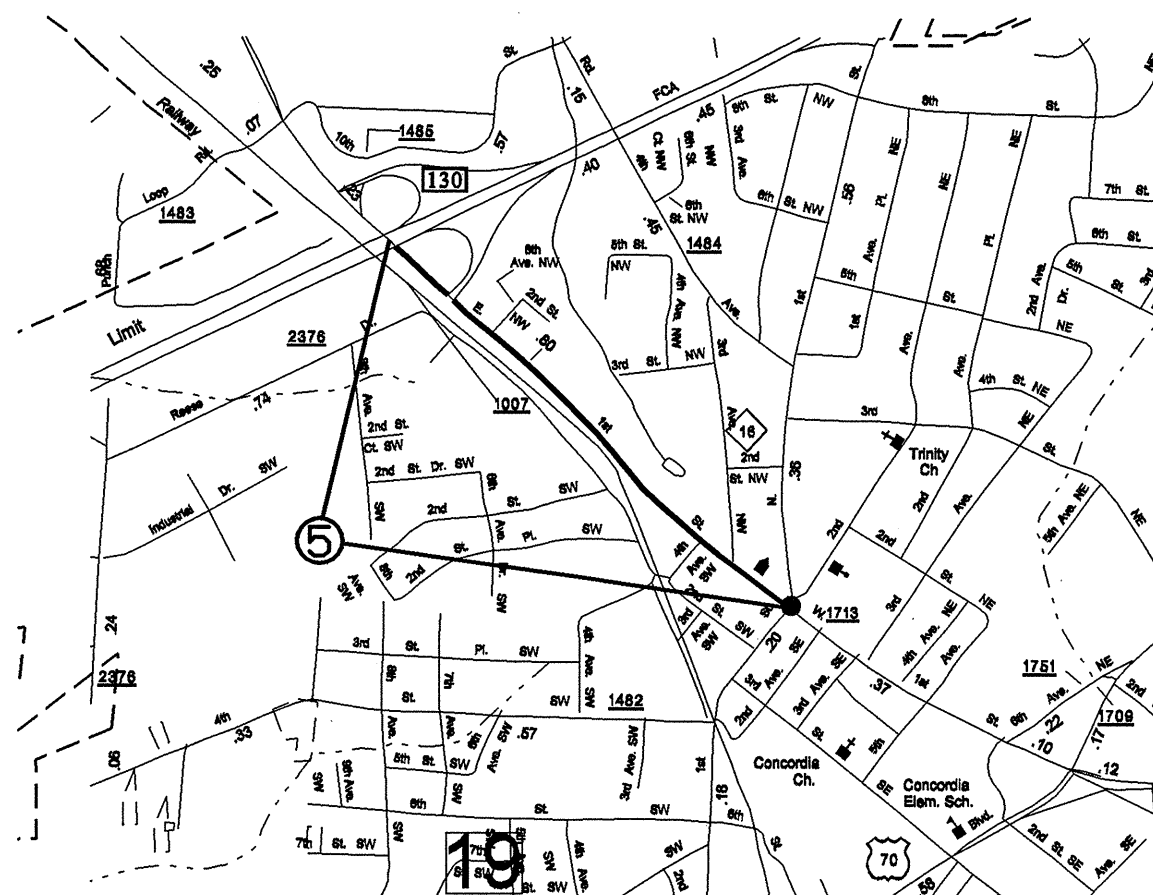
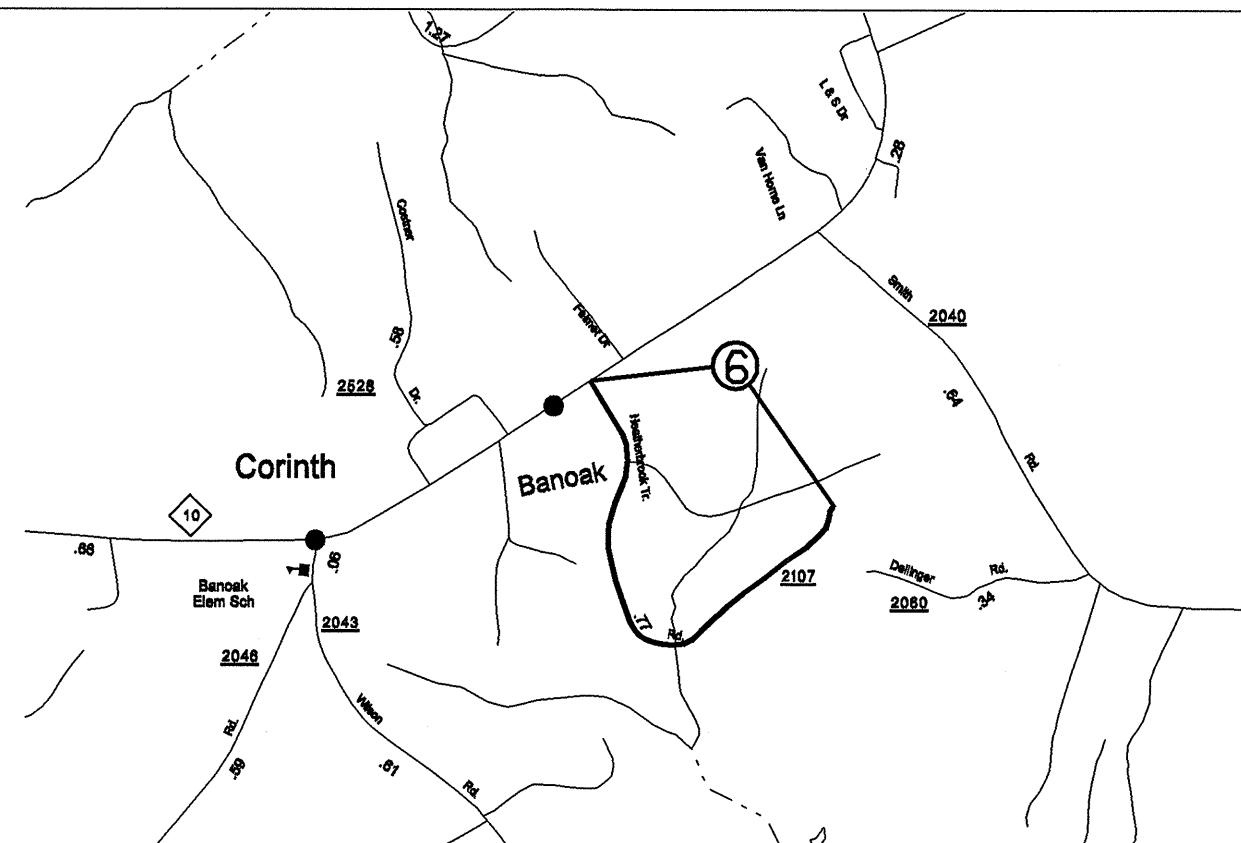
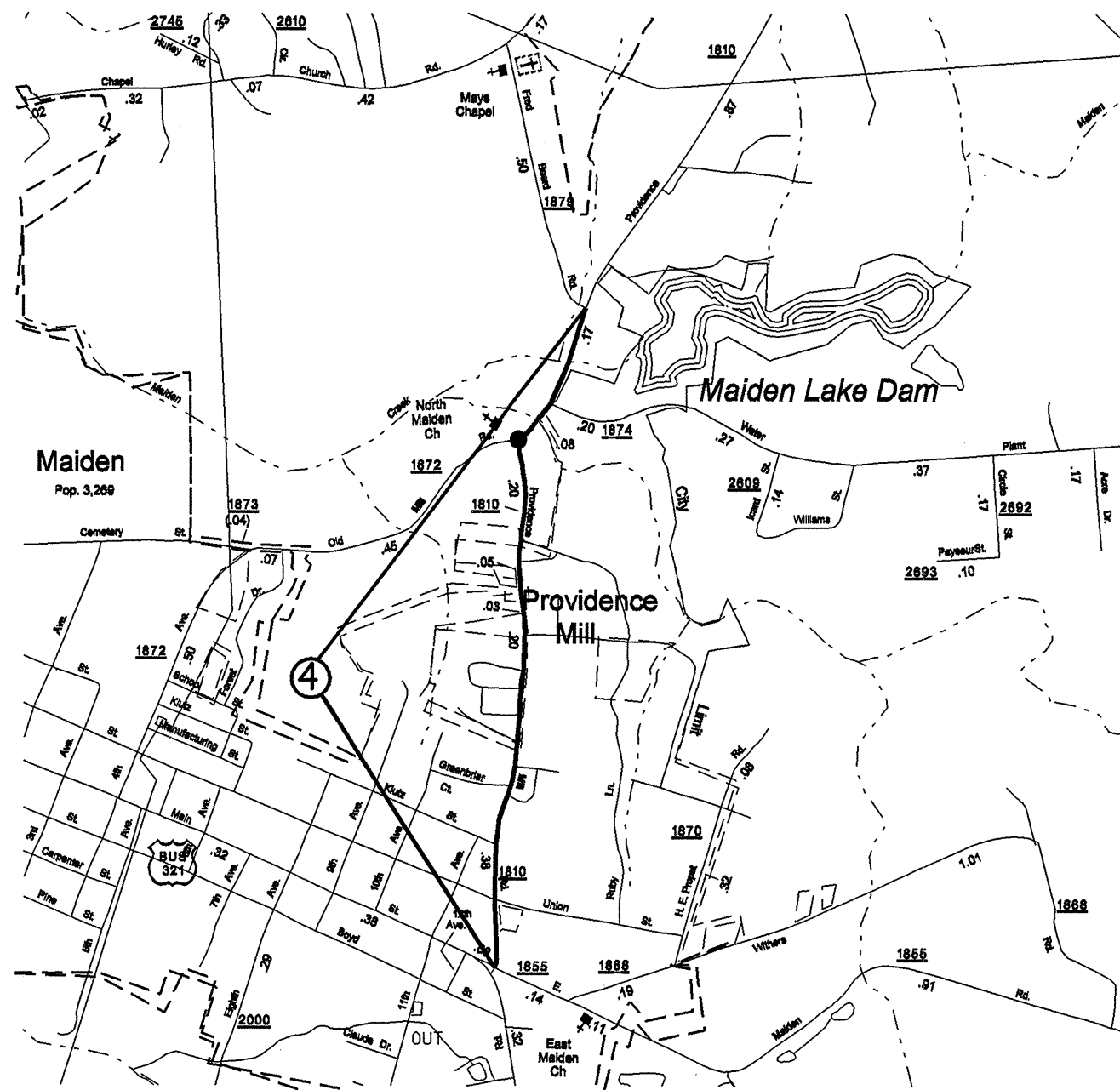
Catawba Cnty.
North Carolina

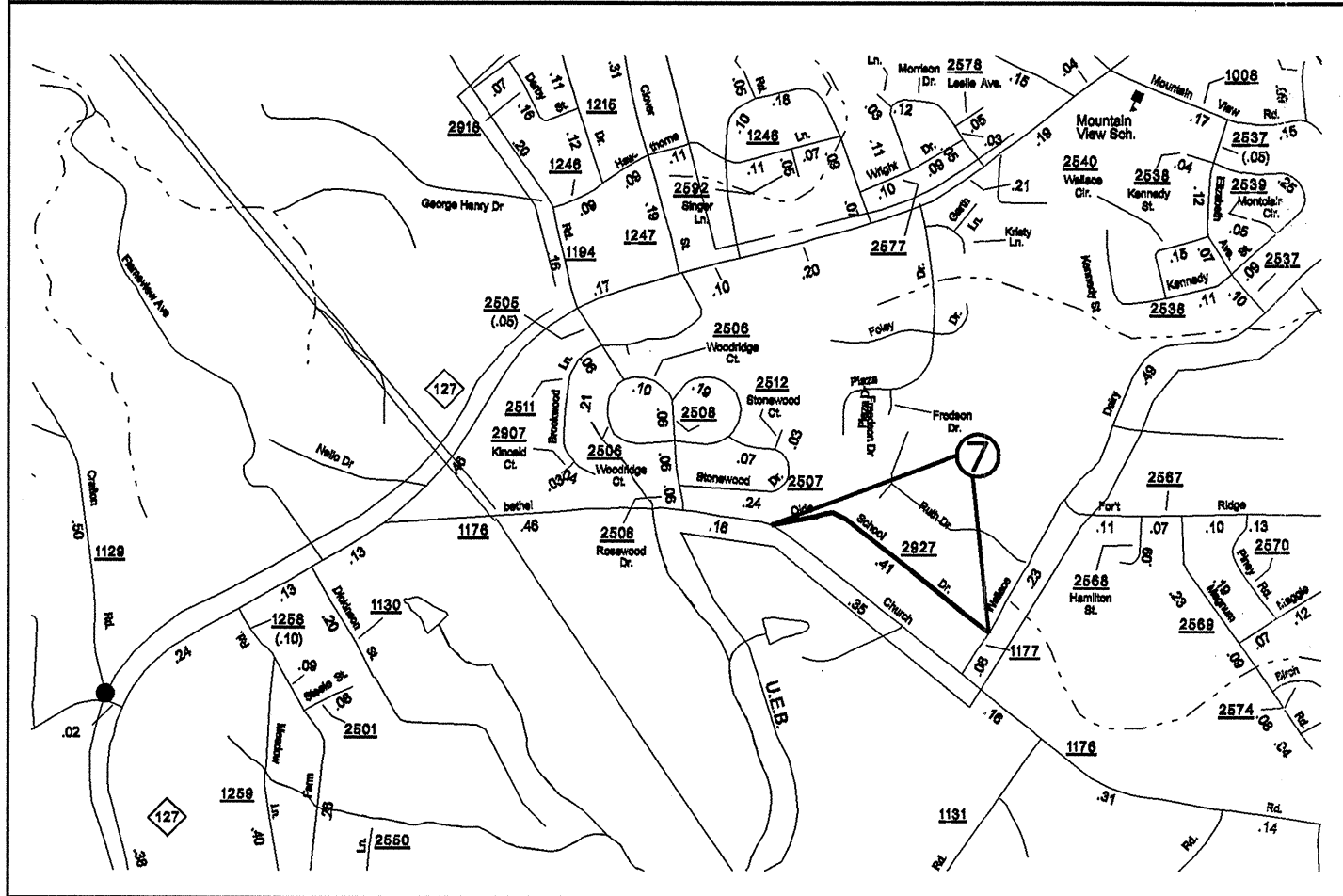
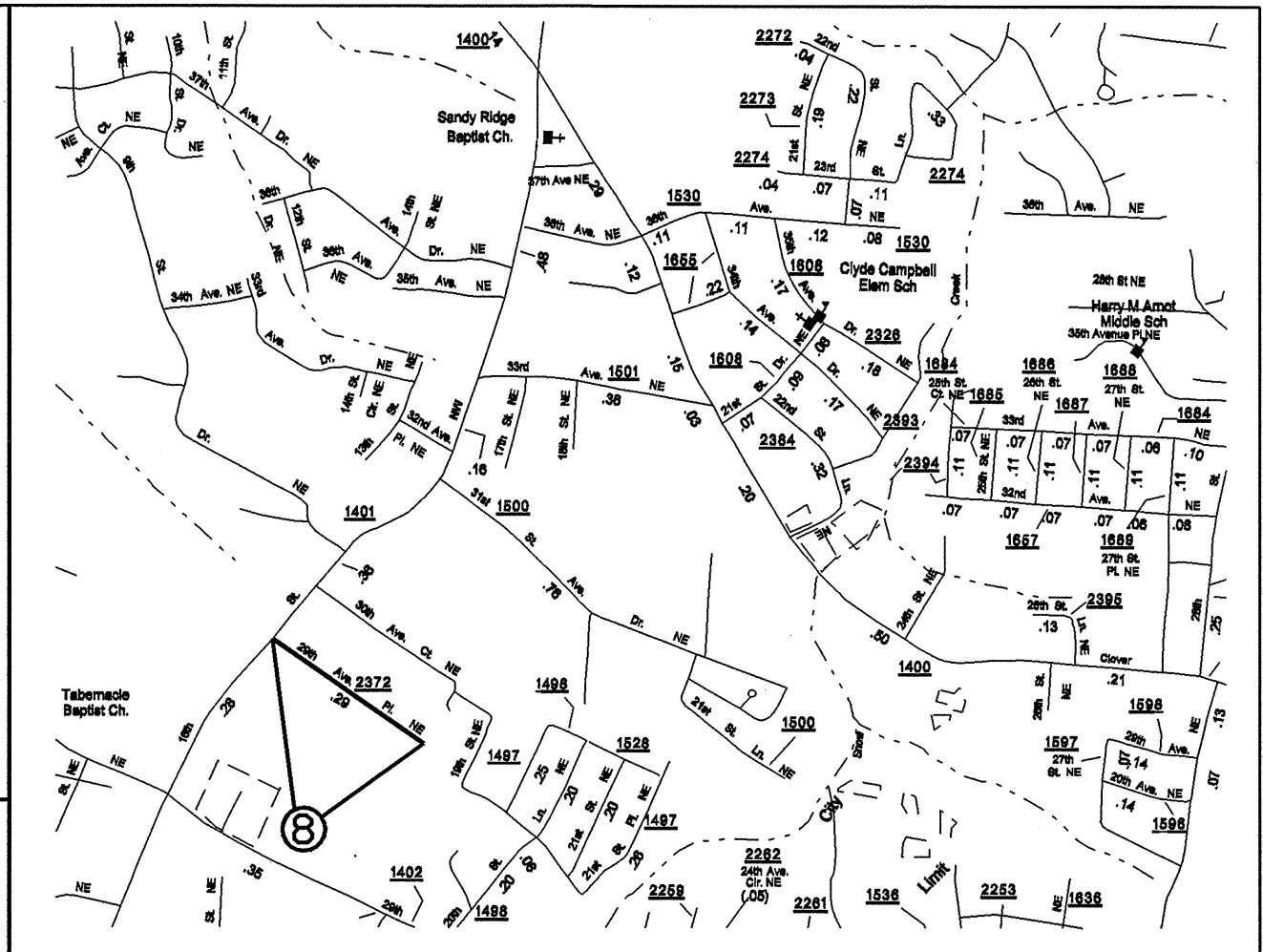
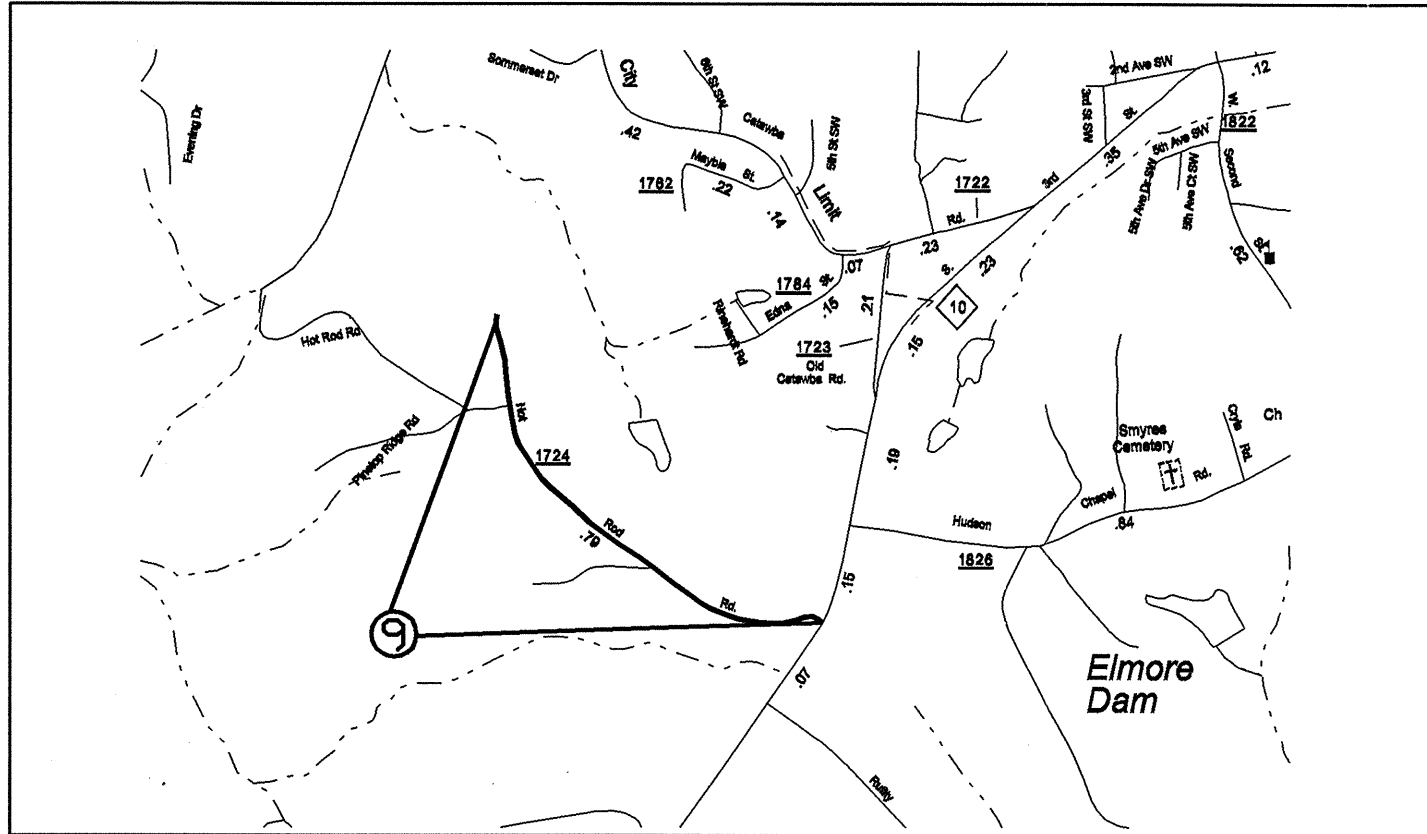
12CR.10181.3
12CR20181.6



Catawba County North Carolina

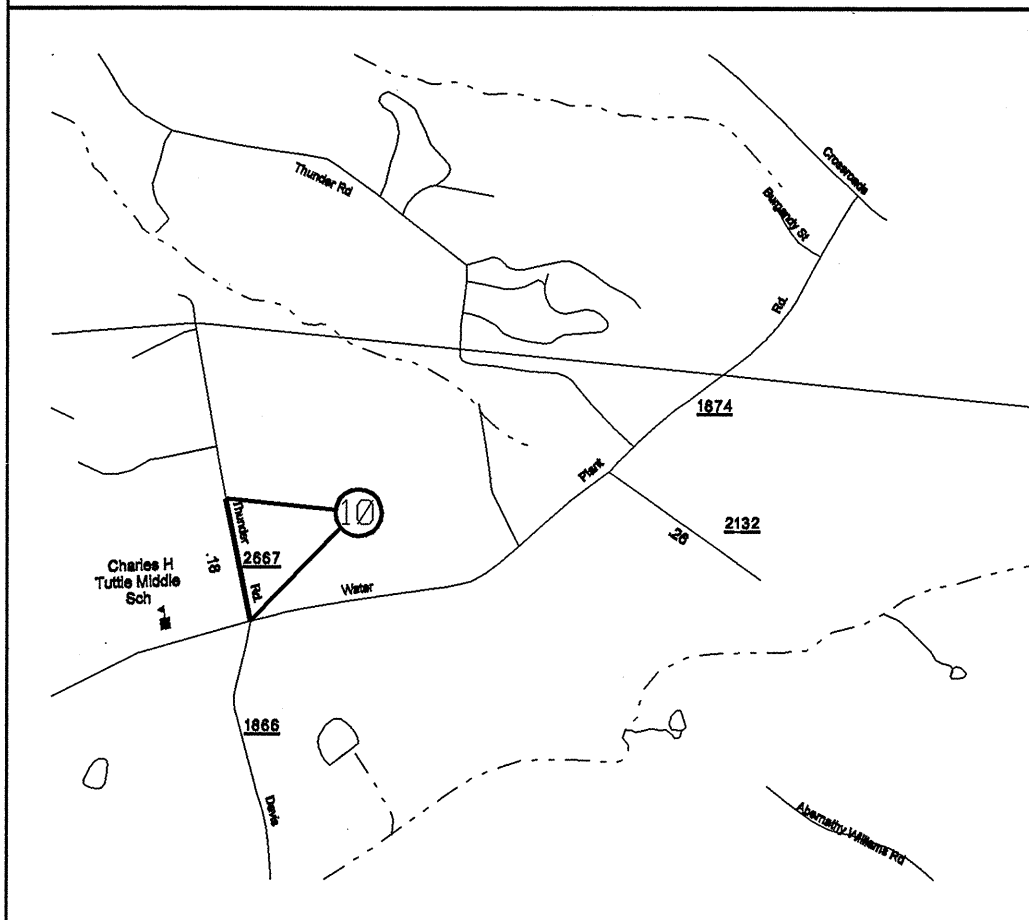
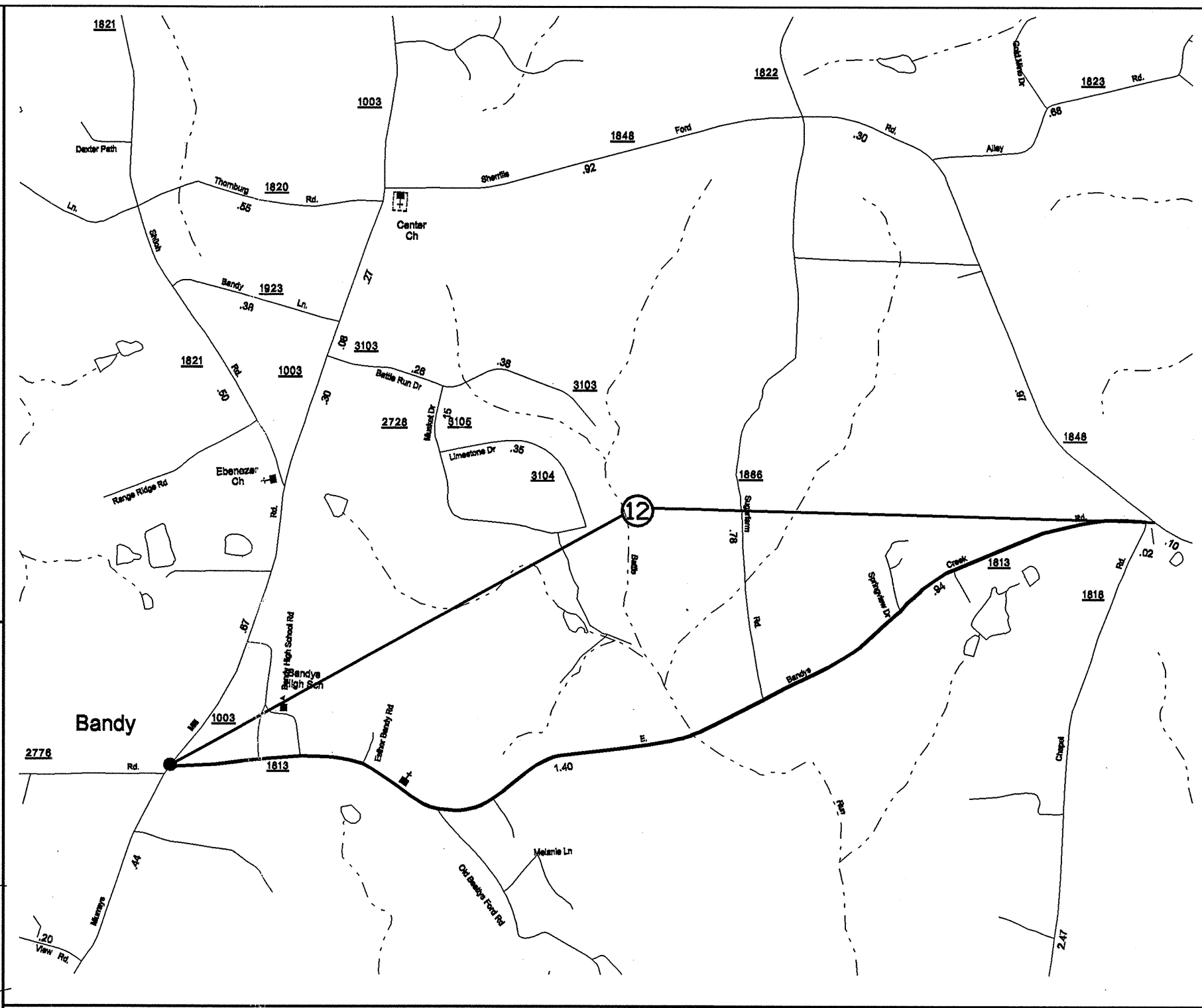
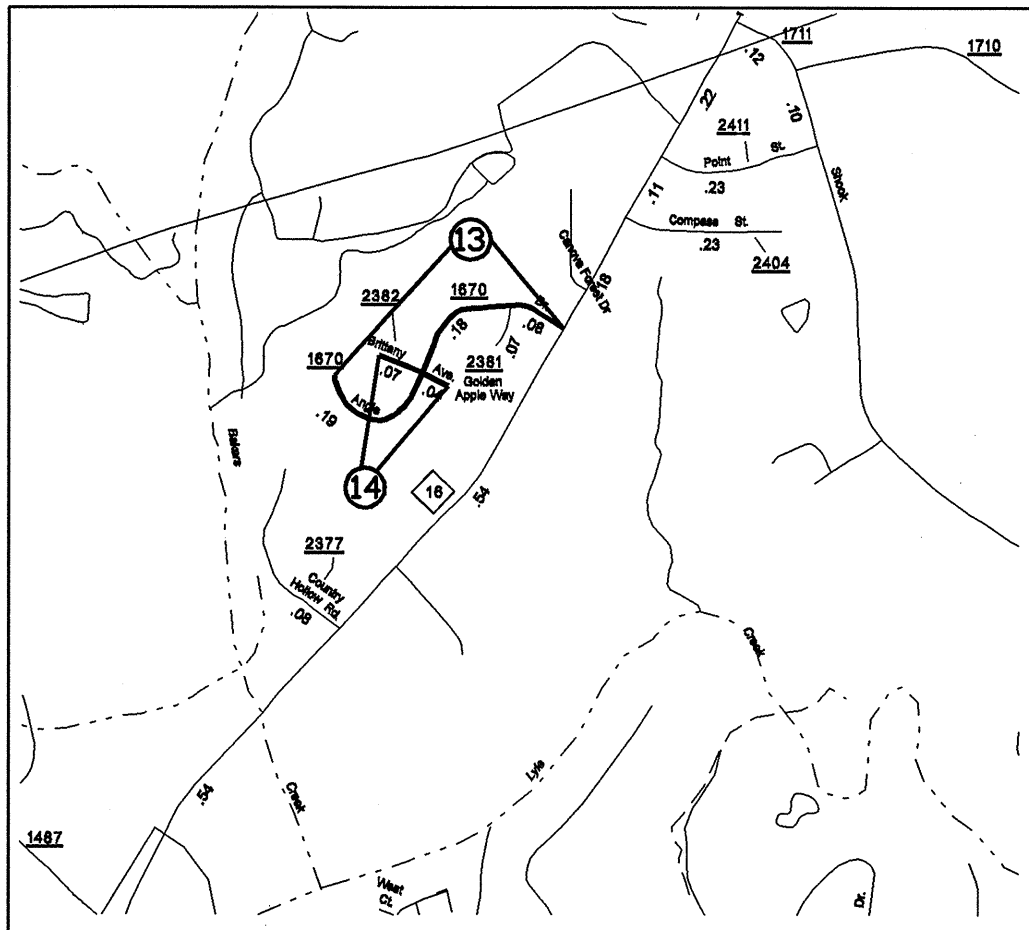
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12CR20181.6






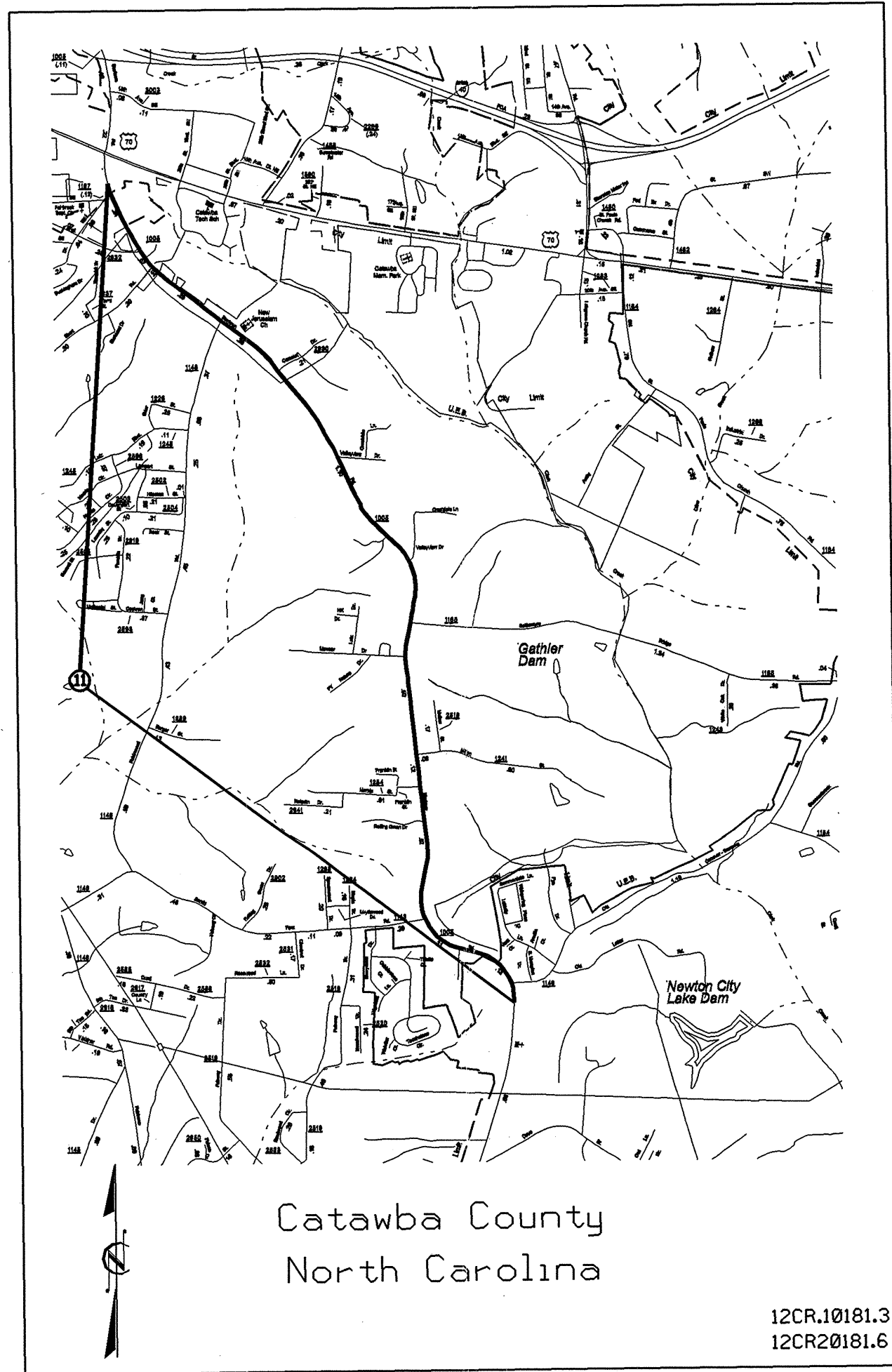
Catawba County
North Carolina

12CR.10181.3
12CR20181.6




Catawba County
North Carolina

12CR.10181.3
 12CR20181.6



Catawba County
North Carolina

12CR.10181.3
12CR20181.6

PROJECT NO.	SHEET NO.	TOTAL NO.
12CR.10181.3	6	14
12CR.20181.6		

SUMMARY OF QUANTITIES

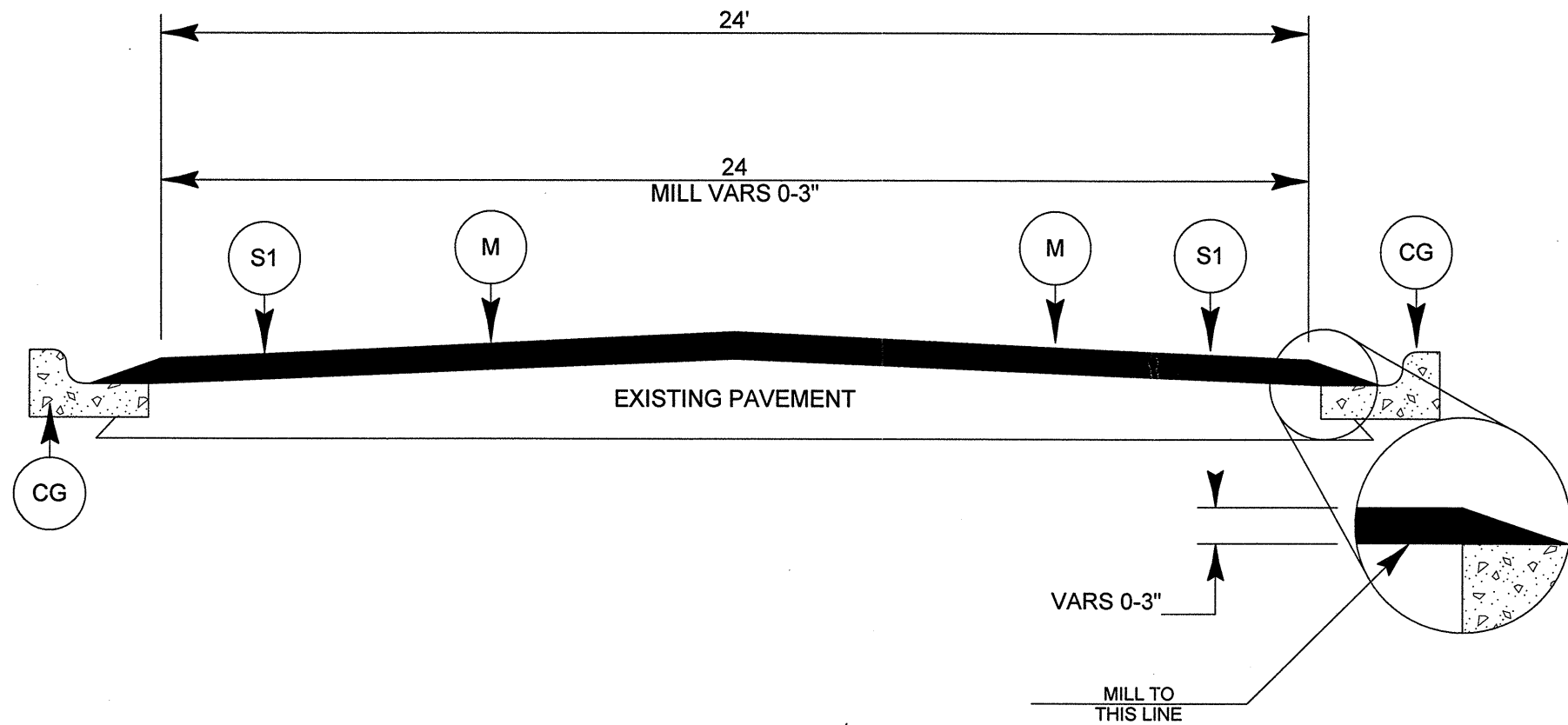
PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	SHOULDER RECONSTRUCTION SMI	0" TO 3" MILLING SY	INCIDENTAL MILLING SY	BASE COURSE, B25.0B TONS	SURFACE COURSE, S9.5B TONS	LEVELING COURSE, S9.5B TONS	PG 64-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	ADJUST CATCH BASIN EA	ADJUST DROP INLET EA	ADJUST MANHOLES EA	ADJUST METER OR VALVE BOX EA
12CR.10181.3	Catawba	1	NC16	NC 10 TO SR1007	1	0.20	24													
					2	0.40	51													
					3	2.23	var 24-51	40		79,600			7,383	738	491	1,107	2	26	75	80
TOTAL FOR PROJ NO. 12CR.10181.3						2.83		40		79,600		7,383	738	491	1,107	2	26	75	80	
12CR.20181.6	Catawba	2	SR1124 (33RD ST. SW)	I-40 TO SR1692	4	0.04	20													
		3	SR1491 (SECTION HS. RD.)	SR1453 TO W A MURREY SCH.	5	1.46	var 20-30	500	2.99		444	1,261	1,652	330	175	330	1		12	2
		4	SR1810 (PROV. MILL RD.)	SR1855 TO 100' BEYOND SR1879	6	1.72	22	250					2,097	312	146	312	1		3	3
					6	1.17	20	250					1,300	245	94	245			1	1
		5	SR1007 (8TH DR. HICKORY)	FROM I-40 BRDG. TO NC16	7	0.41	var 23-60													
					8	0.16	var 23-40													
		6	SR2107 (HEATHERBROOK TR.)	NC10 TO CUL-DE-SAC	9	0.18	var 40-52	500		2,556			1,486	500	122	270	1		3	7
					6	0.77	18	100					808	81	54	121				
		7	SR2927 (OLDE SCHOOL RD.)	SR1177 TO SR1176	6	0.35	var 22-34													
					10	0.01	var 24-38													
		8	SR2372 (29TH AVE. PLACE NE)	SR 1401 TO CUL-DE-SAC	11	0.04	12	50					528	52	35	52	1			
					6	0.28	20	50					305	60	22	60				
		9	SR1724 (HOT ROD RD.)	NC10 TO CUL-DE-SAC	6	0.75	20	40					870	130	61	130				
					6	0.14	20	20					157	20	11	20				
		10	SR2667 (THUNDER RD.)	SR1874 TO END ST. MAINT.	6	0.14	20	20					157	20	11	20				
					12	0.11	var 33-39													
		11	SR1005 (STARTOWN RD)	400' S. OF SR1149 TO HICKORY CITY LIMITS	13	3.57	var 24-36	500	7.25				5,197	625	352	625		2	2	8
					6	2.33	22	300					2,845	725	218	725				
		12	SR1813 (BANDY'S X ROADS E.)	SR1003 TO SR1848	6	2.33	22	300					2,845	725	218	725				
					6	0.44	20	80					520	78	36	78				
		13	SR1670 (ANGLE DR)	NC16 TO CUL-DE-SAC	6	0.44	20	80					520	78	36	78				
					6	0.11	20	40					207	30	14	30				
		14	SR2382 (BRITTANY AVE)	CUL-DE-SAC TO CUL-DE-SAC	6	0.11	20	40					207	30	14	30				
TOTAL FOR PROJ NO. 12CR.20181.6						14.04		2,680	10.24	0	3,000	1,261	17,972	3,188	1,340	2,998	4	2	21	21
GRAND TOTAL						16.87		2,720	10.24	79,600	3,000	1,261	25,355	3,926	1,831	4,105	6	28	96	101

PROJECT NO.	SHEET NO.	TOTAL NO.
12CR.10181.3 12CR.20181.6	7	14

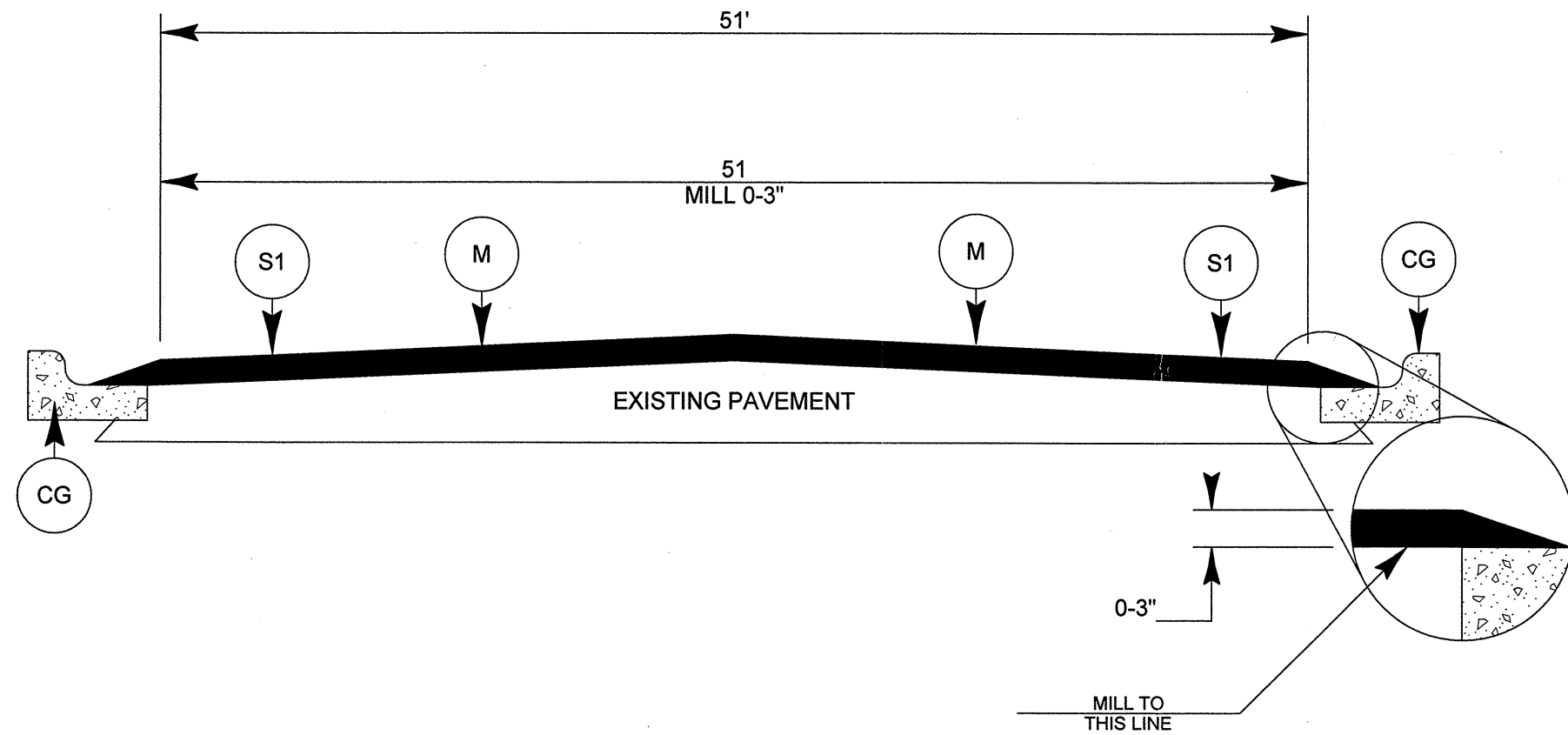
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4685000000-E	4686000000-E	4705000000-E	4710000000-E	4721000000-E					4725000000-E		4810000000-E	4835000000-E	4900000000-N	4905000000-N	5255000000-N		
					4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO RXR 120 M CHARS. EA	THERMO CHARS. SCHOOL 120 M EA	THERMO LT ARROW 90 M EA	THERMO STR. ARROW	THERMO STR & RT ARROW 90 M EA	THERMO STR & LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	4" YELLOW PAINT LF	4" WHITE PAINT LF	24" WHITE PAINT LF	YELLOW & YELLOW MARKERS EA	SNOW PLOWABLE MARKERS EA	PORTABLE LIGHTNING EA
12CR.10181.3	Catawba	1	NC16	NC 10 TO SR1007		33,000	5,000	200	750	8		50	100	12	2		33,000	5,000		450	1	
TOTAL FOR PROJ NO. 12CR.10181.3						33,000	5,000	200	750	8		50	100	12	2		33,000	5,000		450	1	
						38,000				8		164				38,000						
12CR.20181.6	Catawba	2	SR1124 (33RD ST. SW)	I-40 TO SR1692								3		3			32,000	32,000	36	110		
		3	SR1491 (SECTION HS. RD.)	SR1453 TO W A MURREY SCH.				100			12	3		3			36,500	36,500	36			
		4	SR1810 (PROV. MILL RD.)	SR1855 TO 100' BEYOND SR1879													25,000	25,000	24	80		
		5	SR1007 (8TH DR. HICKORY)	FROM I-40 BRDG. TO NC16	14,500	21,000			125			15	8	12		6					60	
		6	SR2107 (HEATHERBROOK TR.)	NC10 TO CUL-DE-SAC																		
		7	SR2927 (OLDE SCHOOL RD.)	SR1177 TO SR1176																		
		8	SR2372 (29TH AVE. PLACE NE)	SR 1401 TO CUL-DE-SAC																		
		9	SR1724 (HOT ROD RD.)	NC10 TO CUL-DE-SAC																		
		10	SR2667 (THUNDER RD.)	SR1874 TO END ST. MAINT.																		
		11	SR1005 (STARTOWN RD)	400' S. OF SR1149 TO HICKORY CITY LIMTS				175				20					90,250	82,500			425	
		12	SR1813 (BANDY'S X ROADS E.)	SR1003 TO SR1848				100			12						50,000	50,000				
		13	SR1670 (ANGLE DR)	NC16 TO CUL-DE-SAC																		
		14	SR1382 (BRITTANY AVE)	CUL-DE-SAC TO CUL-DE-SAC																		
TOTAL FOR PROJ NO. 12CR.20181.6					14,500	21,000		500		24	24	41	8	18		6	233,750	226,000	96	190	485	
						21,000				24		73				459,750						
GRAND TOTAL					14,500	54,000	5,000	200	1,250	8	24	91	108	30	2	6	266,750	231,000	96	190	935	1
						59,000				32		237				497,750						

PROJECT NO. 12CR.10181.3, 12CR.20181.6	SHEET NO. 8	TOTAL SHEETS 14
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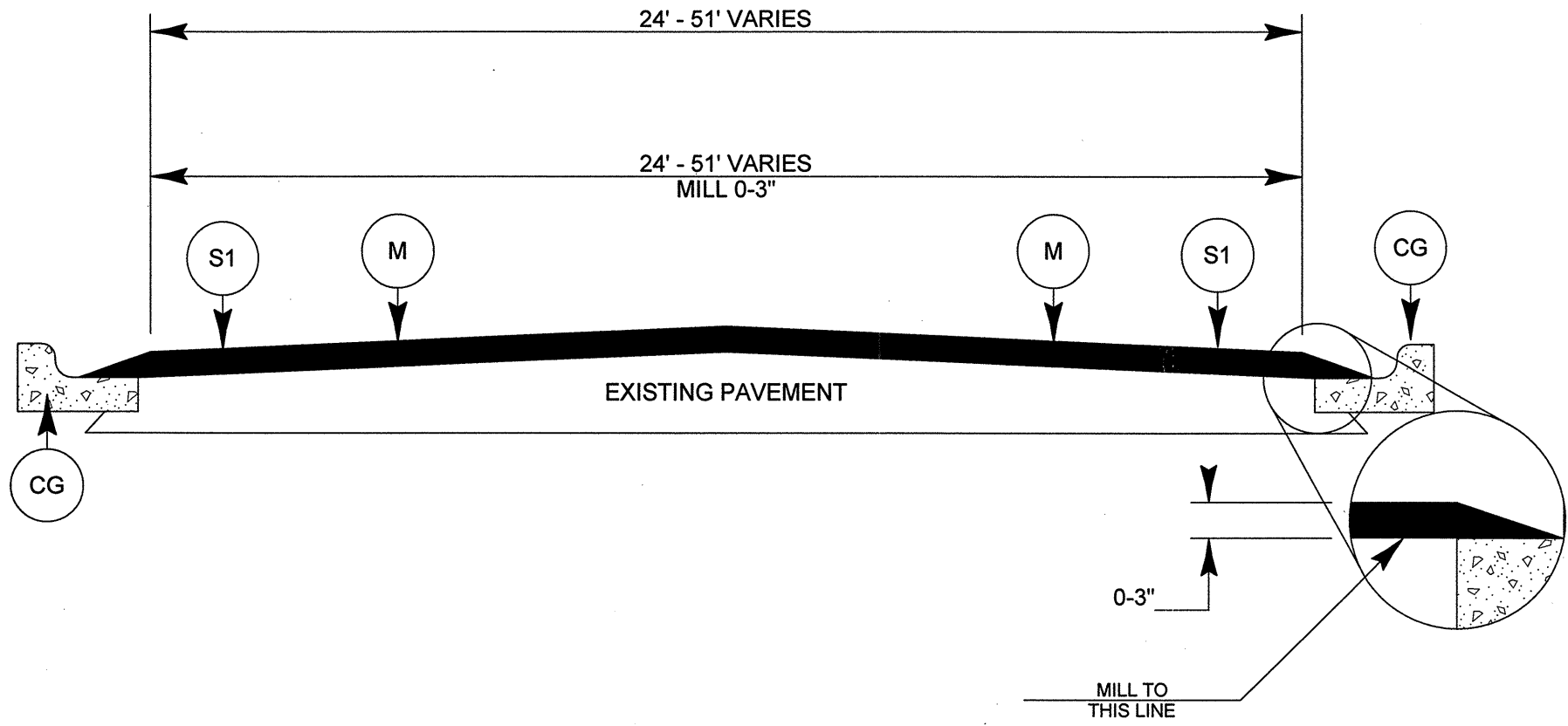
TYPICAL SECTION NO. 1



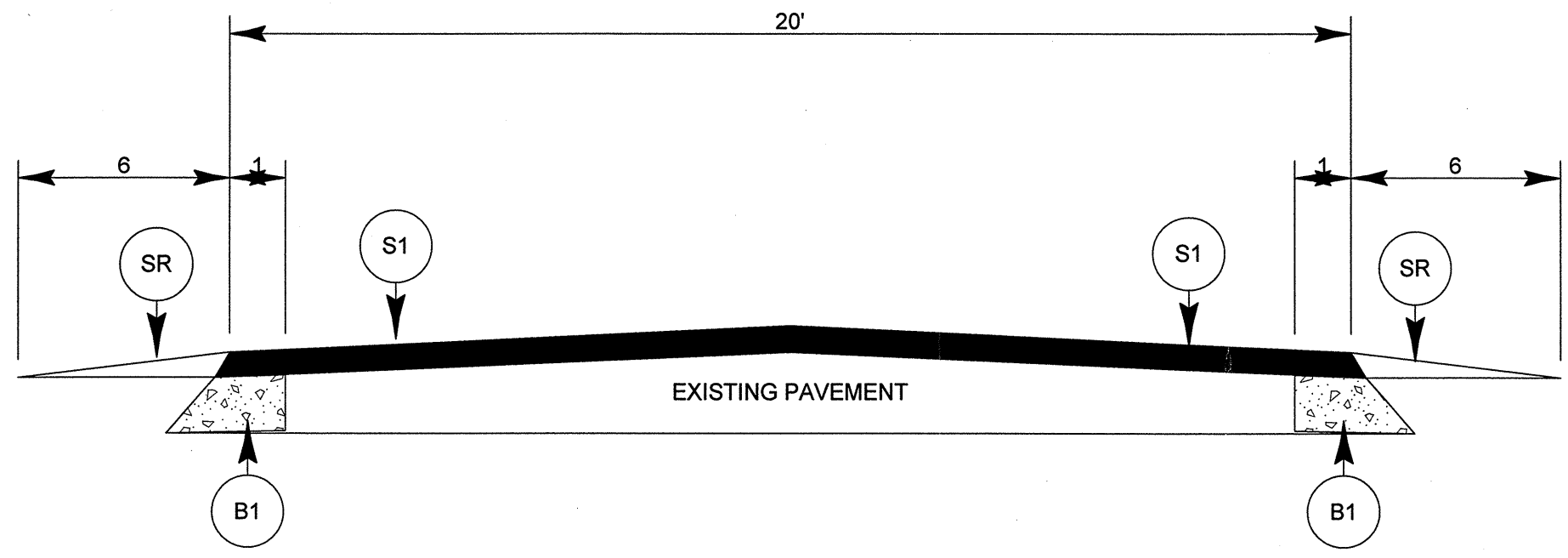
TYPICAL SECTION NO. 2

PAVEMENT SCHEDULE	
A	EXISTING ASPHALT CURB GUTTER
B1	PROP. APPROXIMATE 8" OF BIT. CONC. BASE COURSE TYPE B 25.0B AT AN AVERAGE RATE OF 456 LBS PER SQ. YD. IN EACH OF TWO 4" LAYERS
CG	EXISTING CONC. CURB GUTTER
M	PROP. 0-3" MILLING
S1	PROP. APPROXIMATE 1.5" OF ASPHALT SURFACE COURSE, TYPE S 9.5B AT AN AVG. RATE OF 168 LBS. PER SQ. YD.
SR	PROPOSED SHOULDER RECONSTRUCTION

PROJECT NO. 12CR.10181.3, 12CR.20181.6	SHEET NO. 9	TOTAL SHEETS 14
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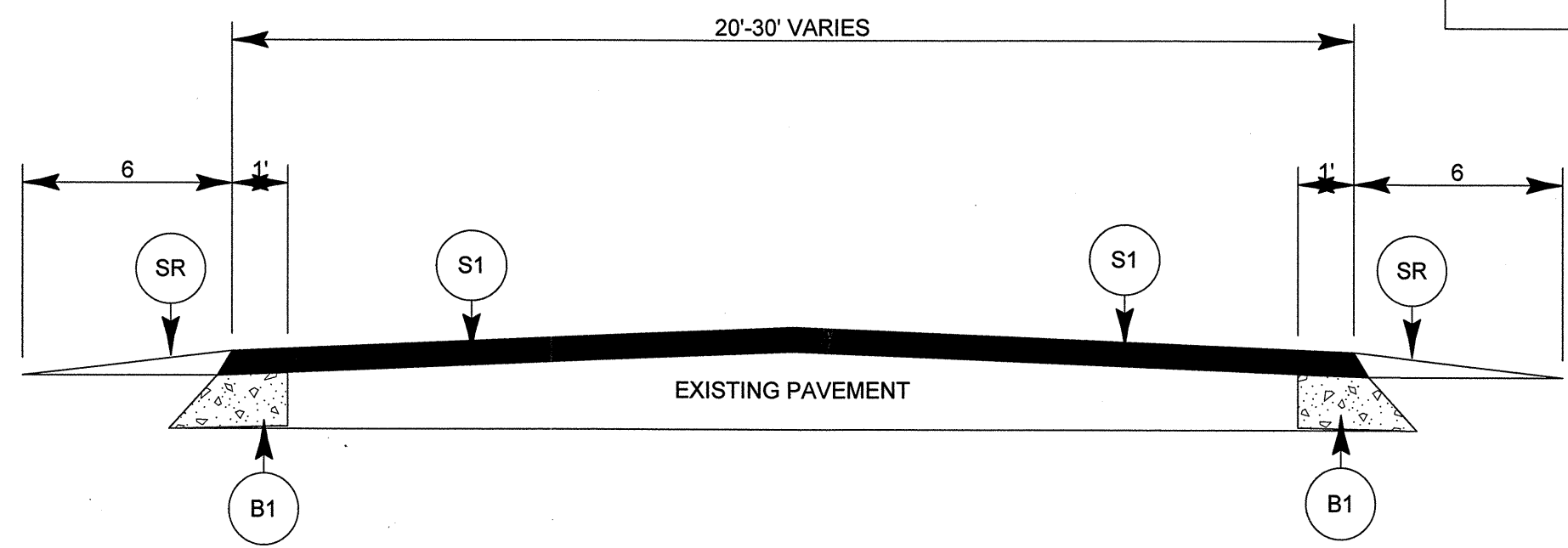


TYPICAL SECTION NO. 3

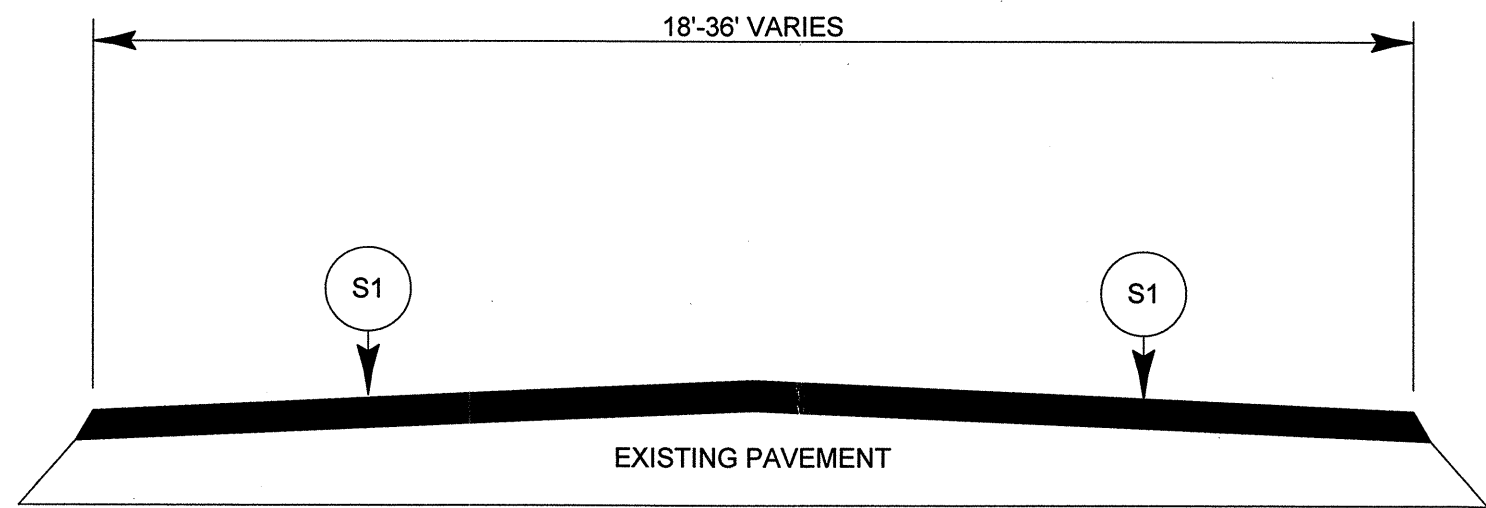


TYPICAL SECTION NO. 4

PROJECT NO.	SHEET NO.	TOTAL SHEETS
12CR.10181.3, 12CR.20181.6	10	14

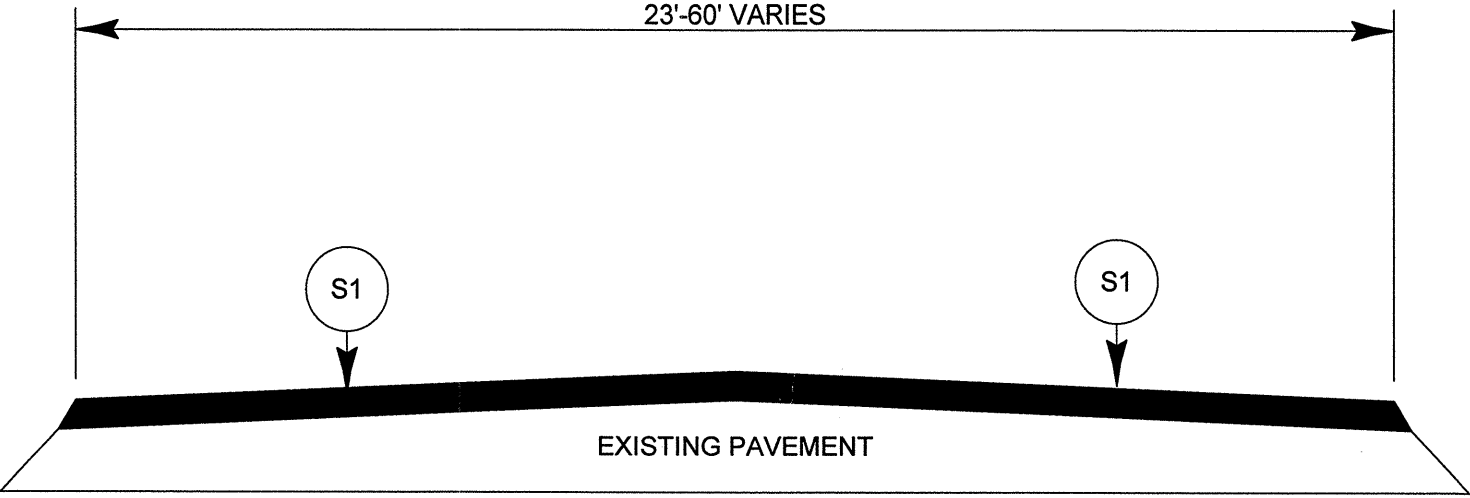


TYPICAL SECTION NO. 5

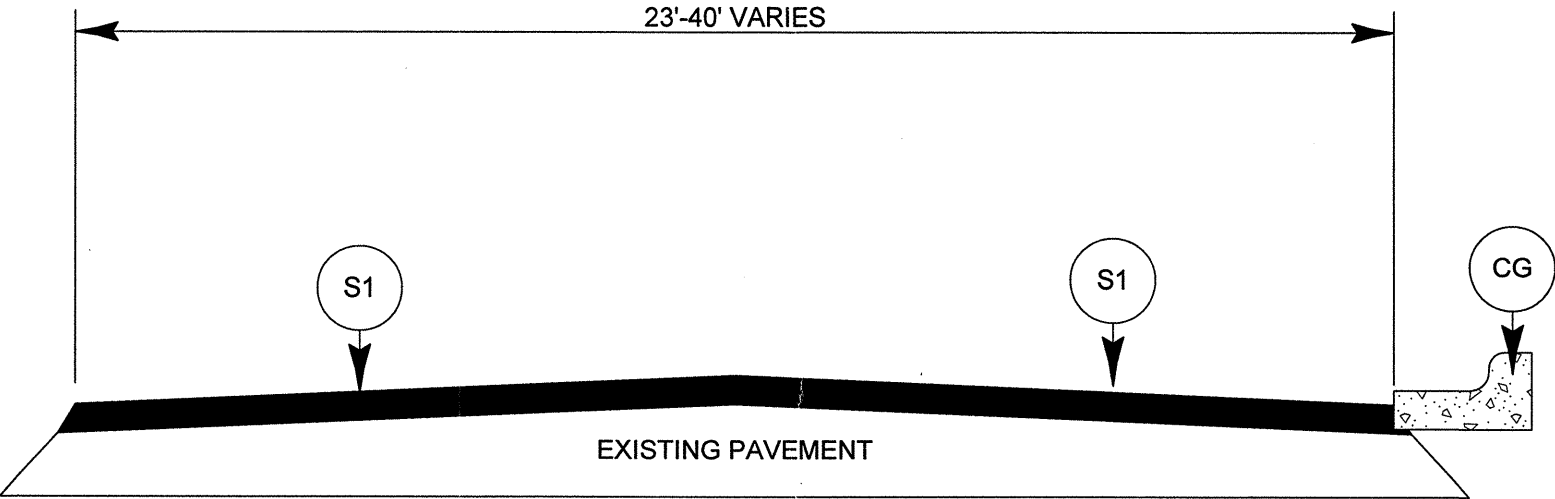


TYPICAL SECTION NO. 6

PROJECT NO.	SHEET NO.	TOTAL SHEETS
12CR.10181.3, 12CR.20181.6	11	14

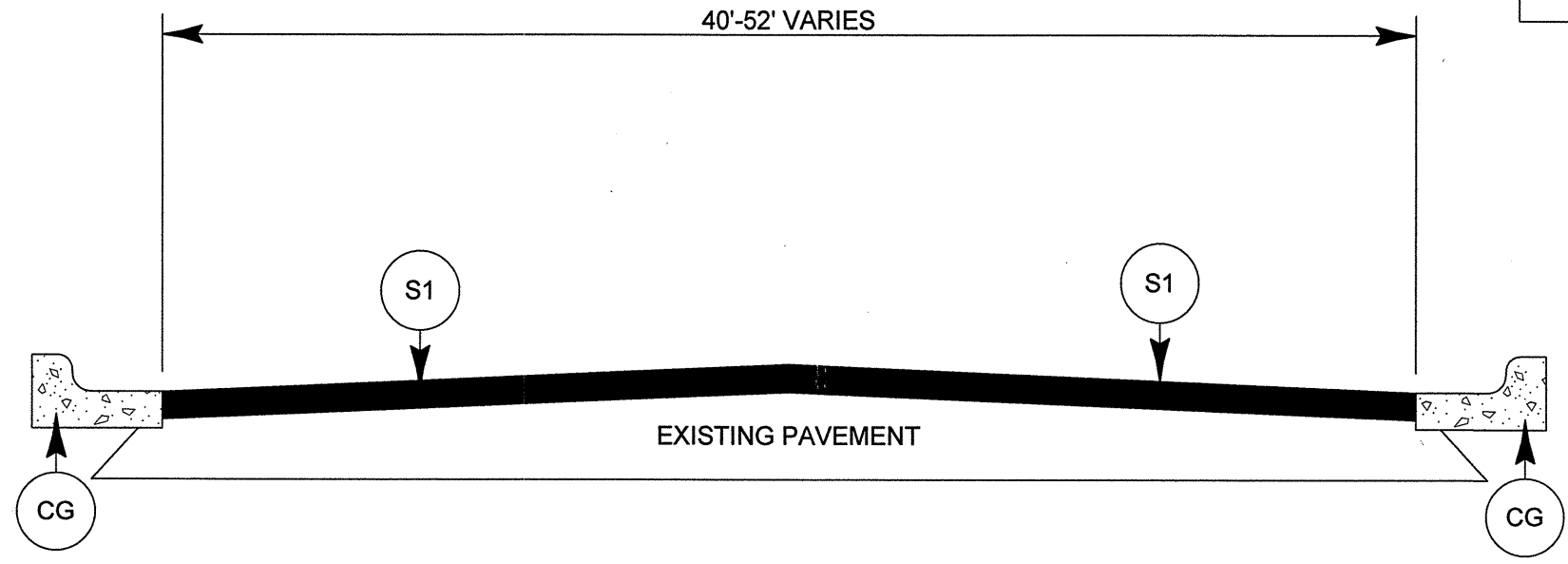


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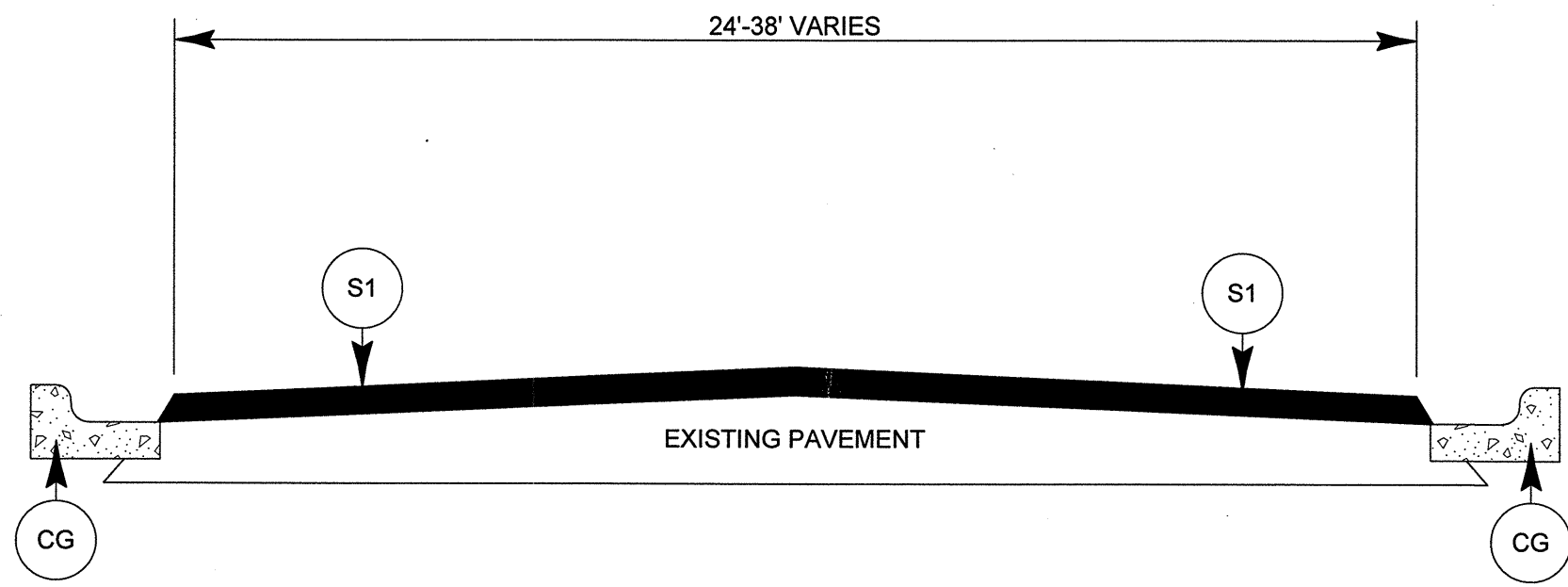


TYPICAL SECTION NO. 8

PROJECT NO.	SHEET NO.	TOTAL SHEETS
12CR.10181.3, 12CR.20181.6	12	14

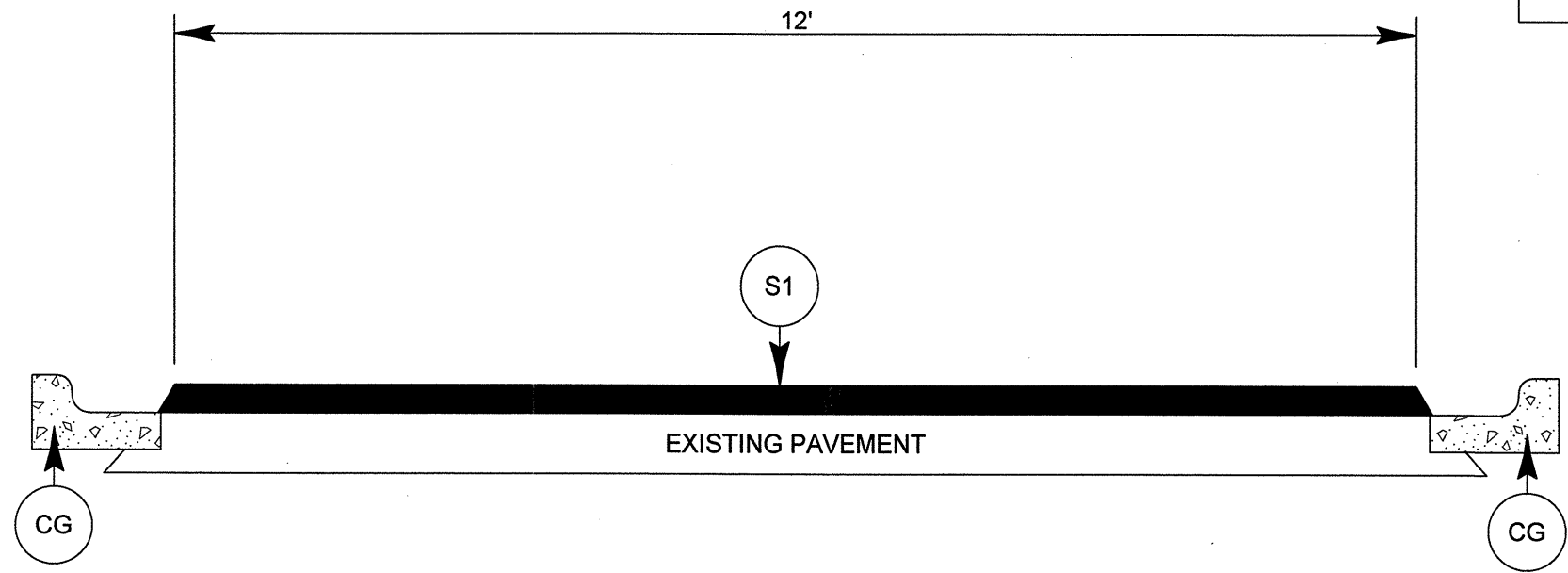


TYPICAL SECTION NO. 9

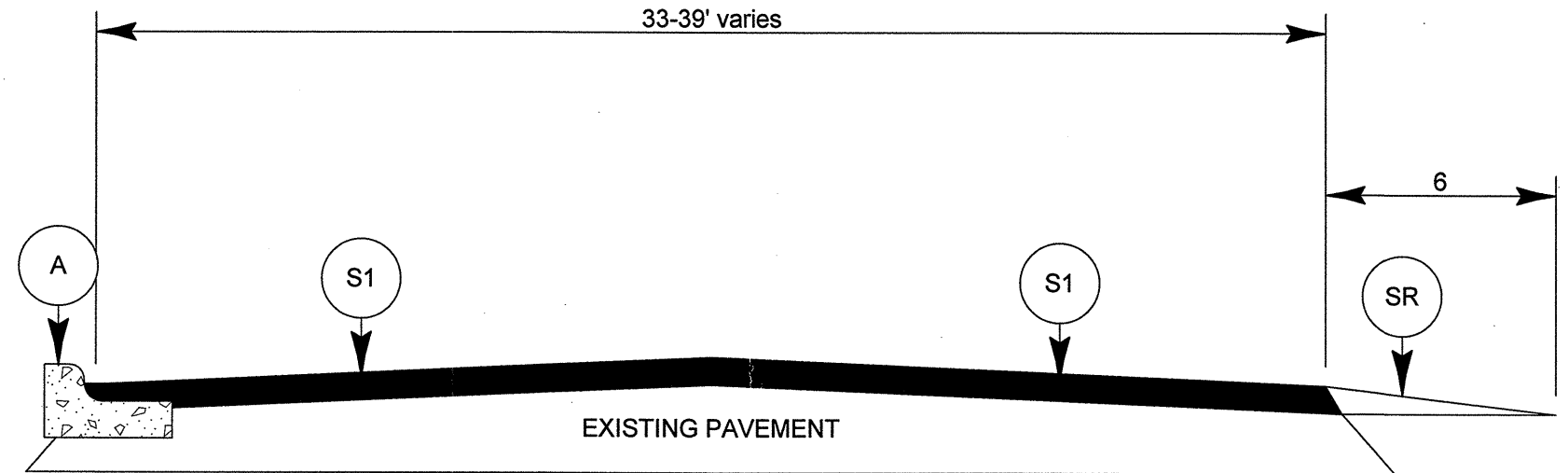


TYPICAL SECTION NO. 10

PROJECT NO. 12CR.10181.3, 12CR.20181.6	SHEET NO. 13	TOTAL SHEETS 14
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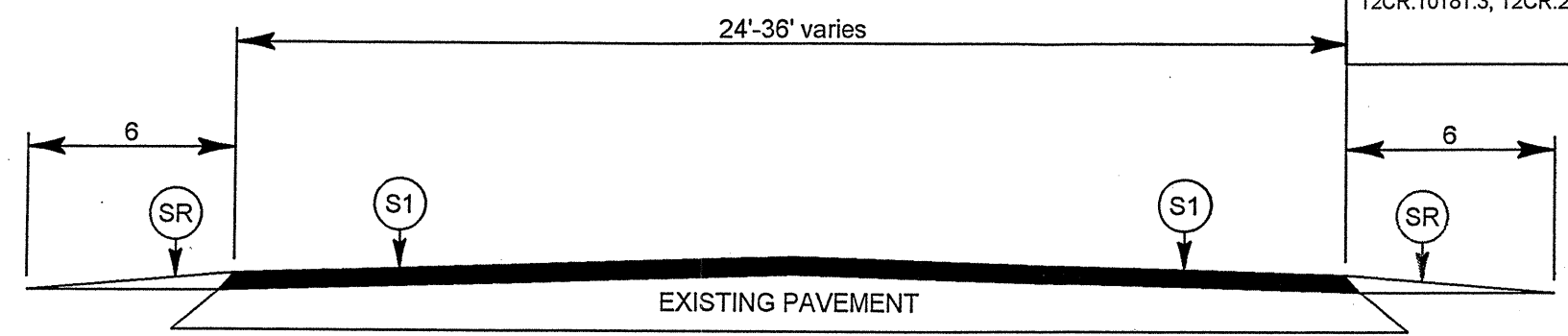


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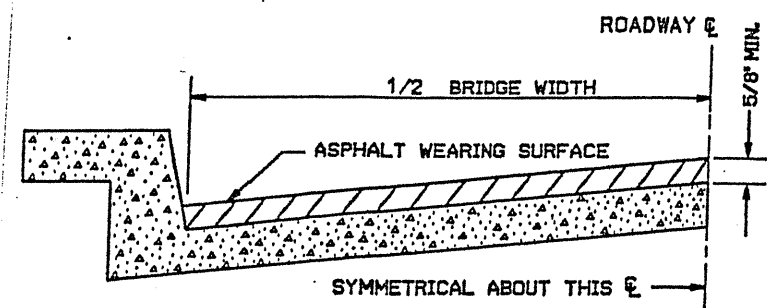


TYPICAL SECTION NO. 12

PROJECT NO.	SHEET NO.	TOTAL SHEETS
12CR.10181.3, 12CR.20181.6	14	14



TYPICAL SECTION NO. 13



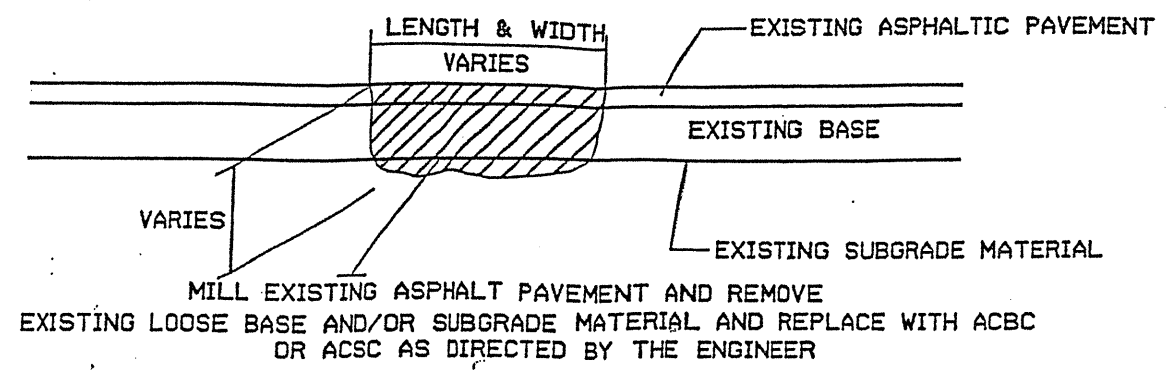
BRIDGE HALF TYPICAL SECTION

FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

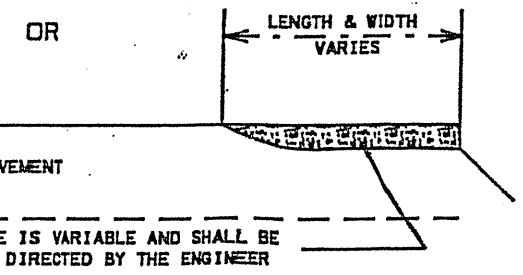
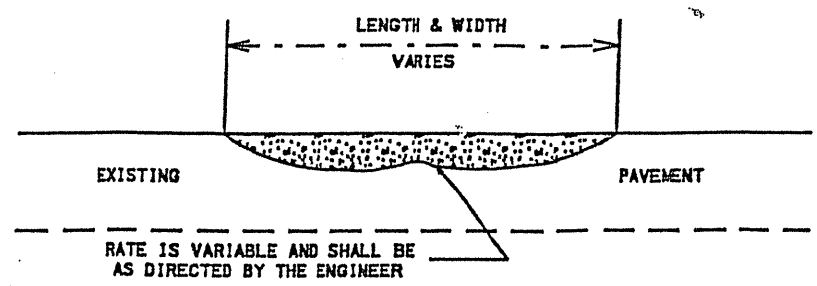
THE PROPOSED WEARING SURFACE SHALL VARY IN THICKNESS AS NECESSARY TO PROVIDE A SMOOTH RIDING SURFACE. A THICKNESS OF NOT LESS THAN 5/8" SHALL BE PROVIDED. THE MAXIMUM THICKNESS SHALL PREFERABLY BE 1-1/2" UNLESS IT IS IMPRACTICAL TO PROVIDE A SMOOTH RIDING SURFACE OTHERWISE.

NOTES

ALL UNPAVED S.R. ROADS TO BE SURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT.
 ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.
 EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.
 SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE NOTED.
 BRIDGES TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.

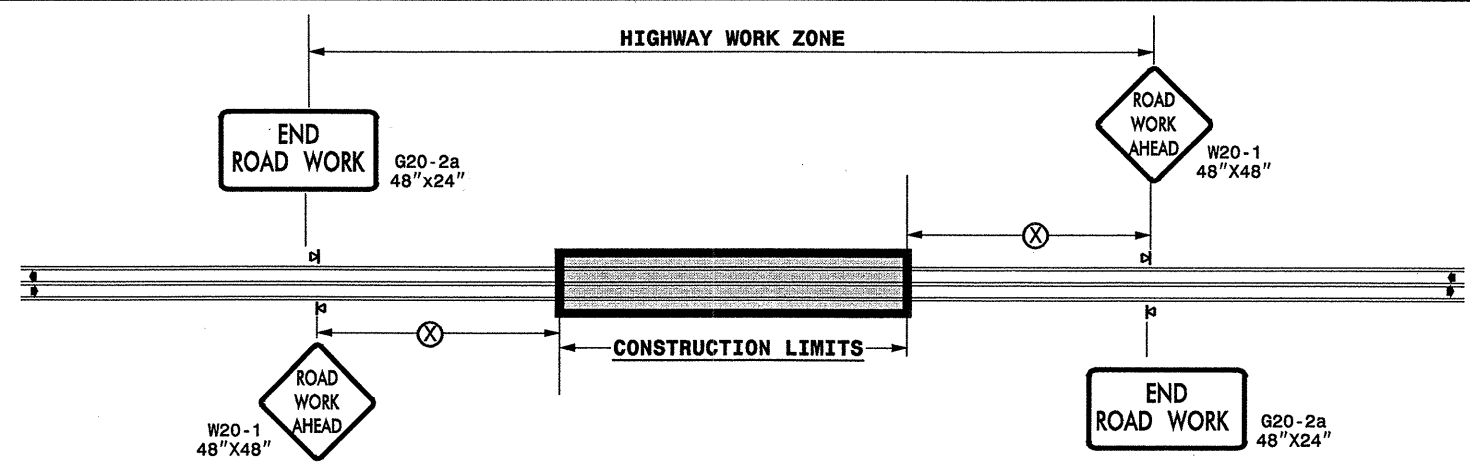


PATCHING EXISTING PAVEMENT



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

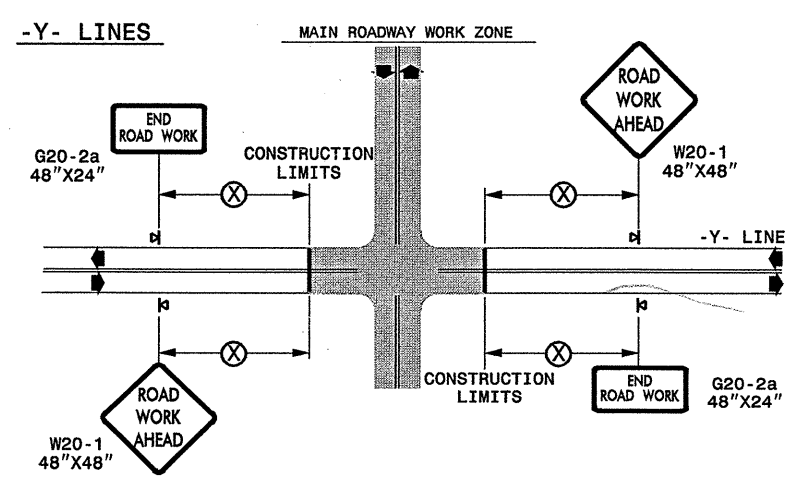
TWO-WAY UNDIVIDED ** (L-LINES)



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

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

ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED 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 URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.


LEGEND

◀ PORTABLE SIGN

➡ DIRECTION OF TRAFFIC FLOW

DETAIL DRAWING
FOR TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

SHEET 1 OF 1

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR TWO-WAY UNDIVIDED ADVANCED WORK ZONE WARNING SIGNS									
SEAL	SCALE: NONE	 <table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td>7-98</td> <td>10/01</td> </tr> <tr> <td>10-98</td> <td>03/04</td> </tr> <tr> <td>01/01</td> <td>11/04</td> </tr> </tbody> </table>		REVISIONS		7-98	10/01	10-98	03/04	01/01	11/04
	REVISIONS										
	7-98			10/01							
	10-98			03/04							
01/01	11/04										
DESIGN BY: _____	DATE: _____										
REVIEWED BY: _____	DATE: _____										

28-NOV-2006 15:04
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