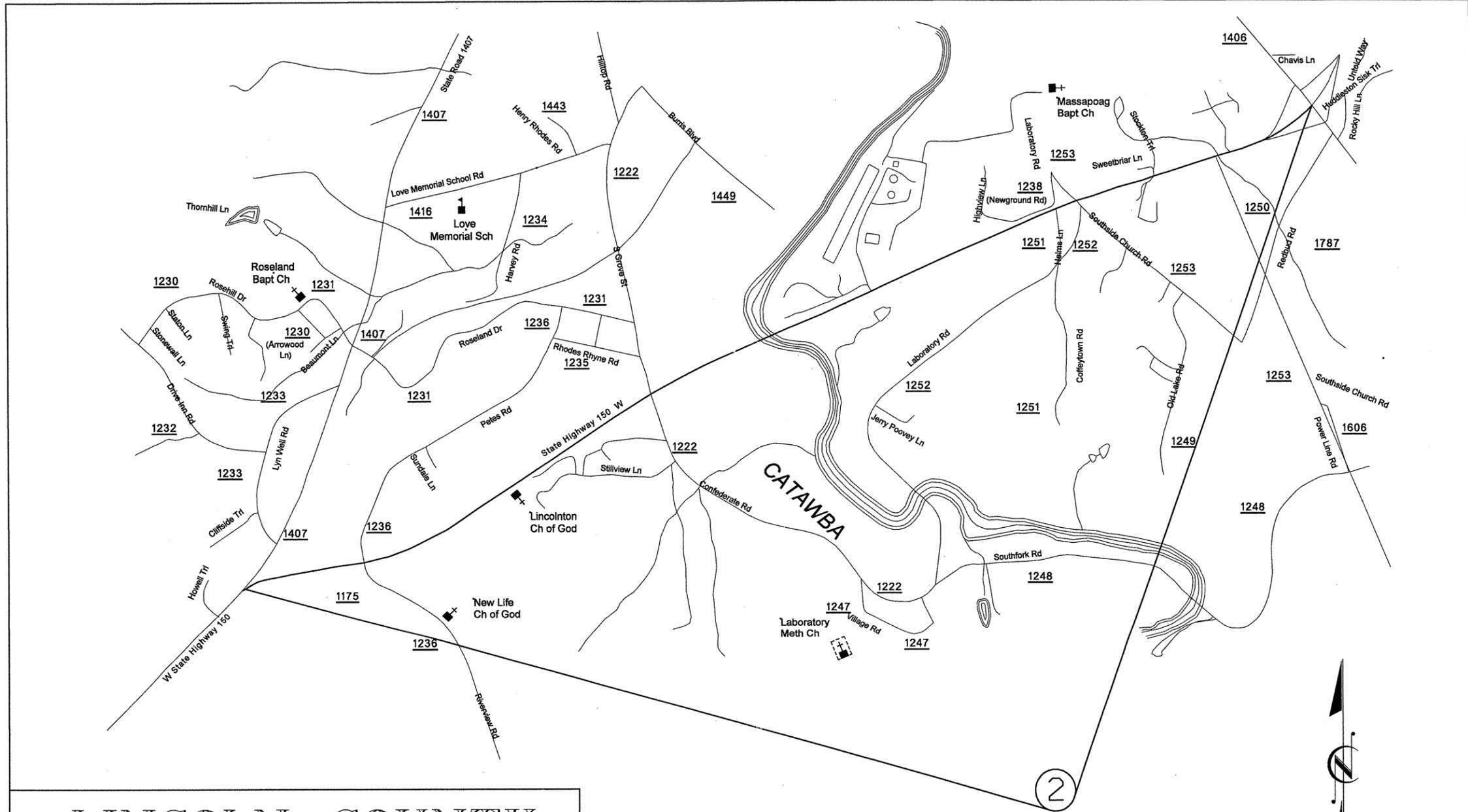
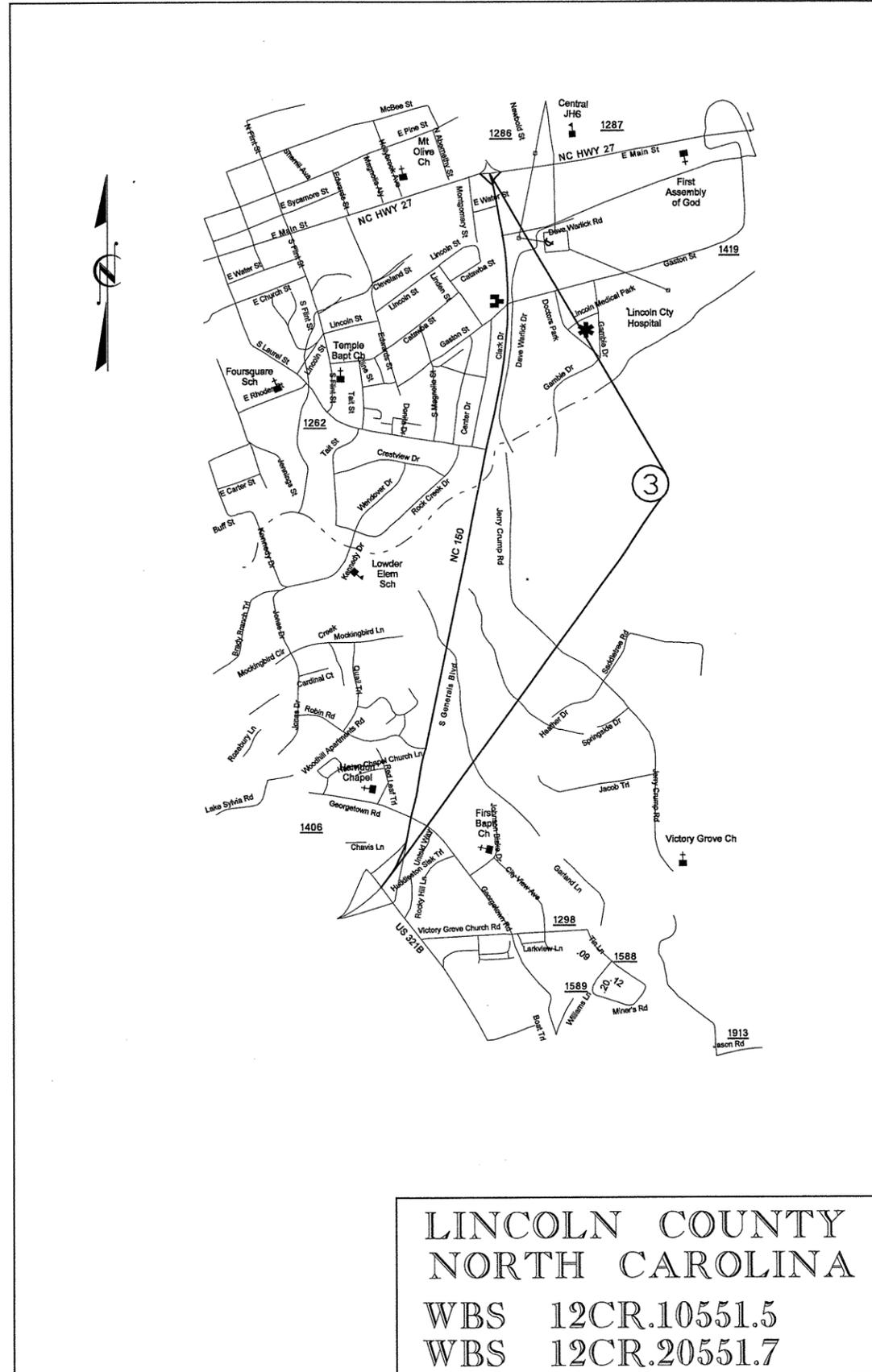
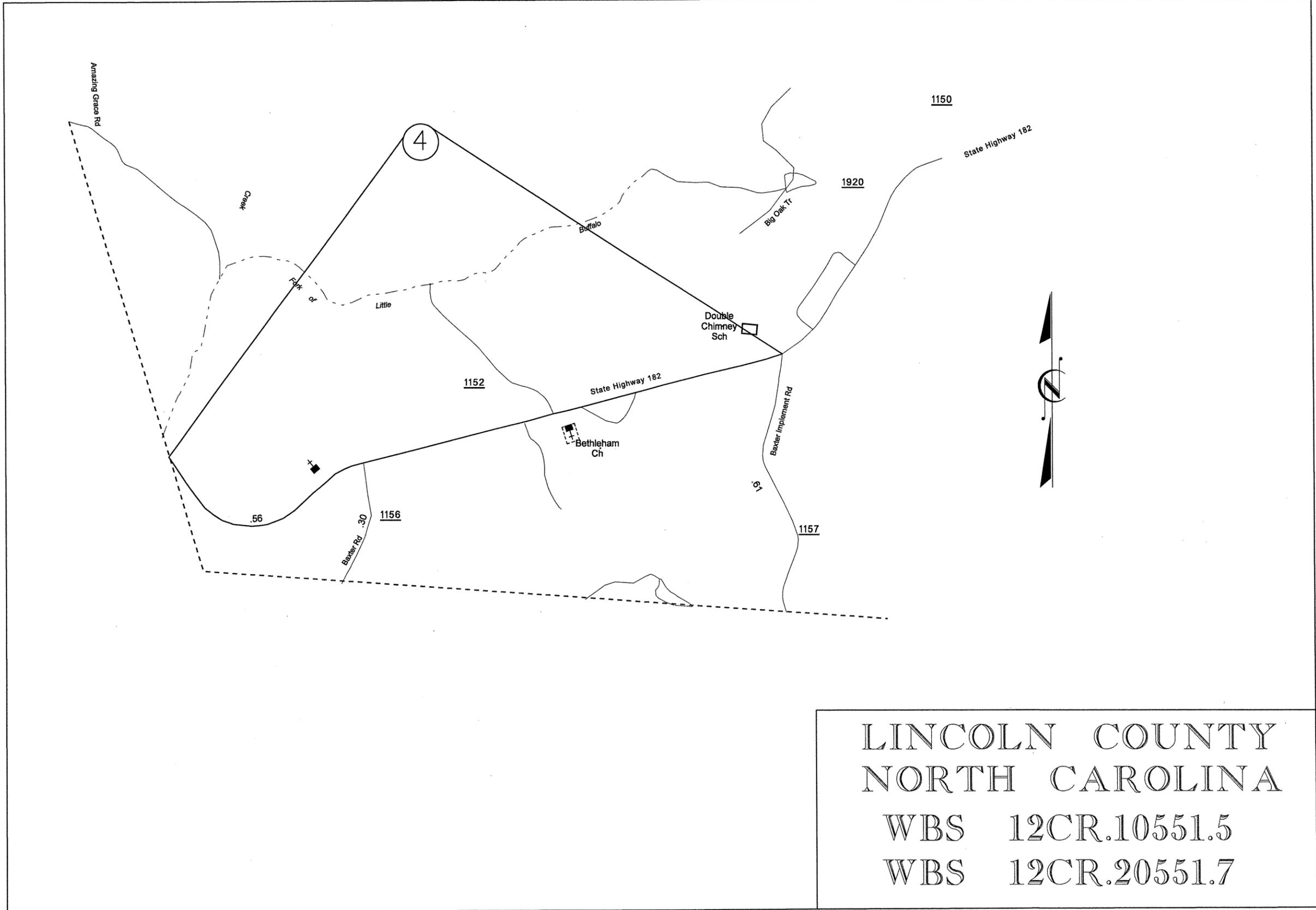


LINCOLN COUNTY
NORTH CAROLINA
WBS 12CR.10551.5
WBS 12CR.20551.7

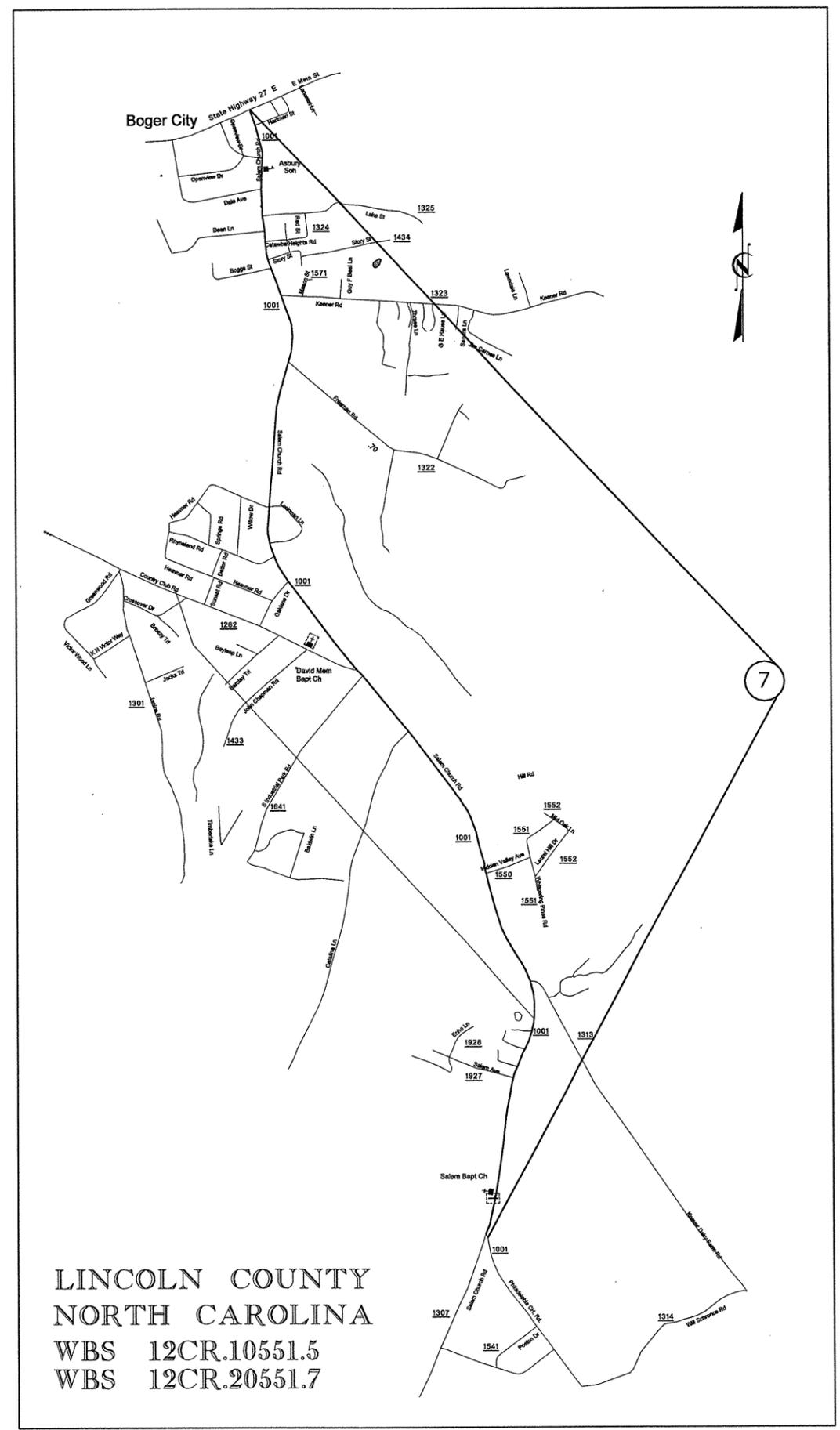


LINCOLN COUNTY
 NORTH CAROLINA
 WBS 12CR.10551.5
 WBS 12CR.20551.7

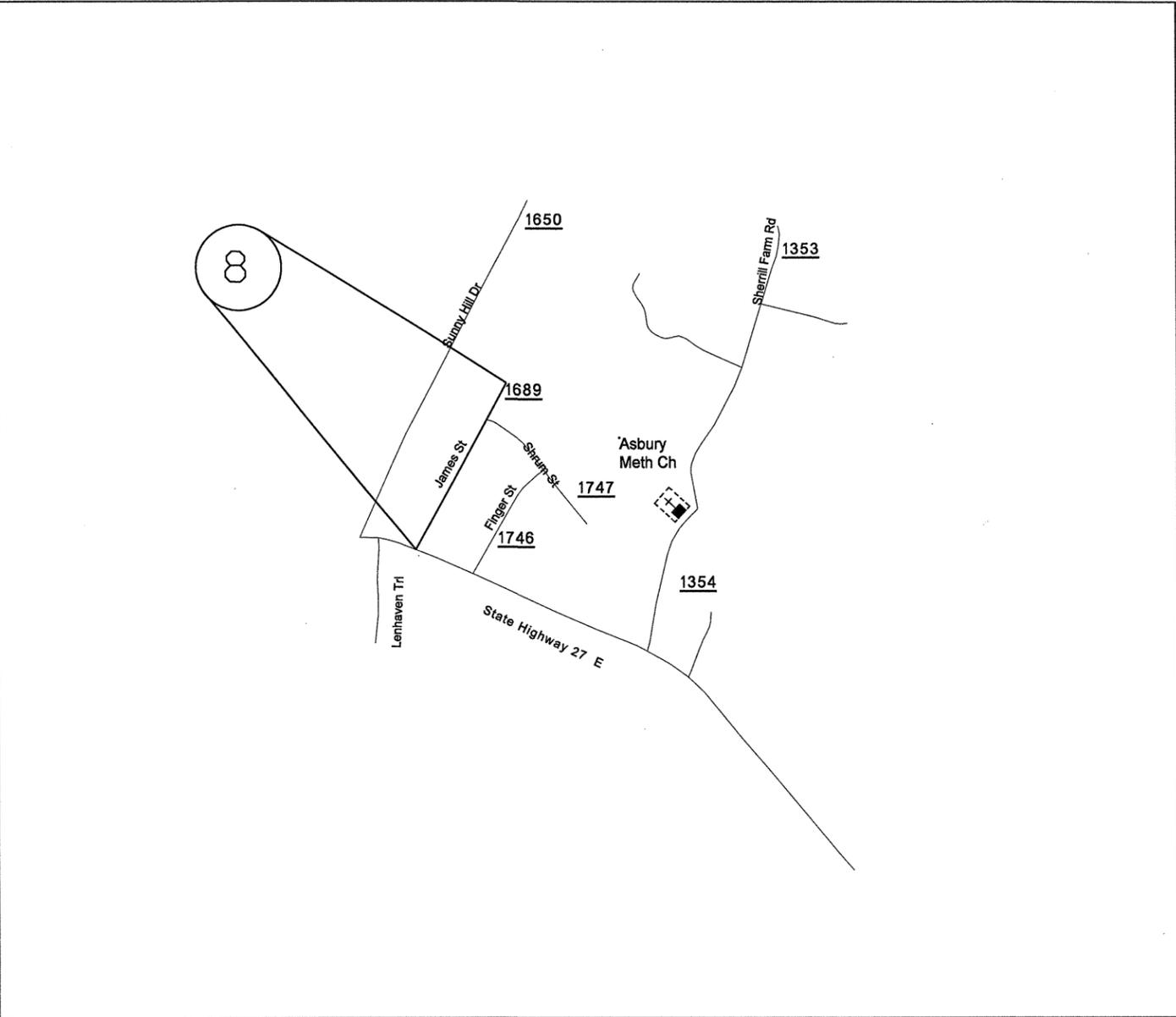
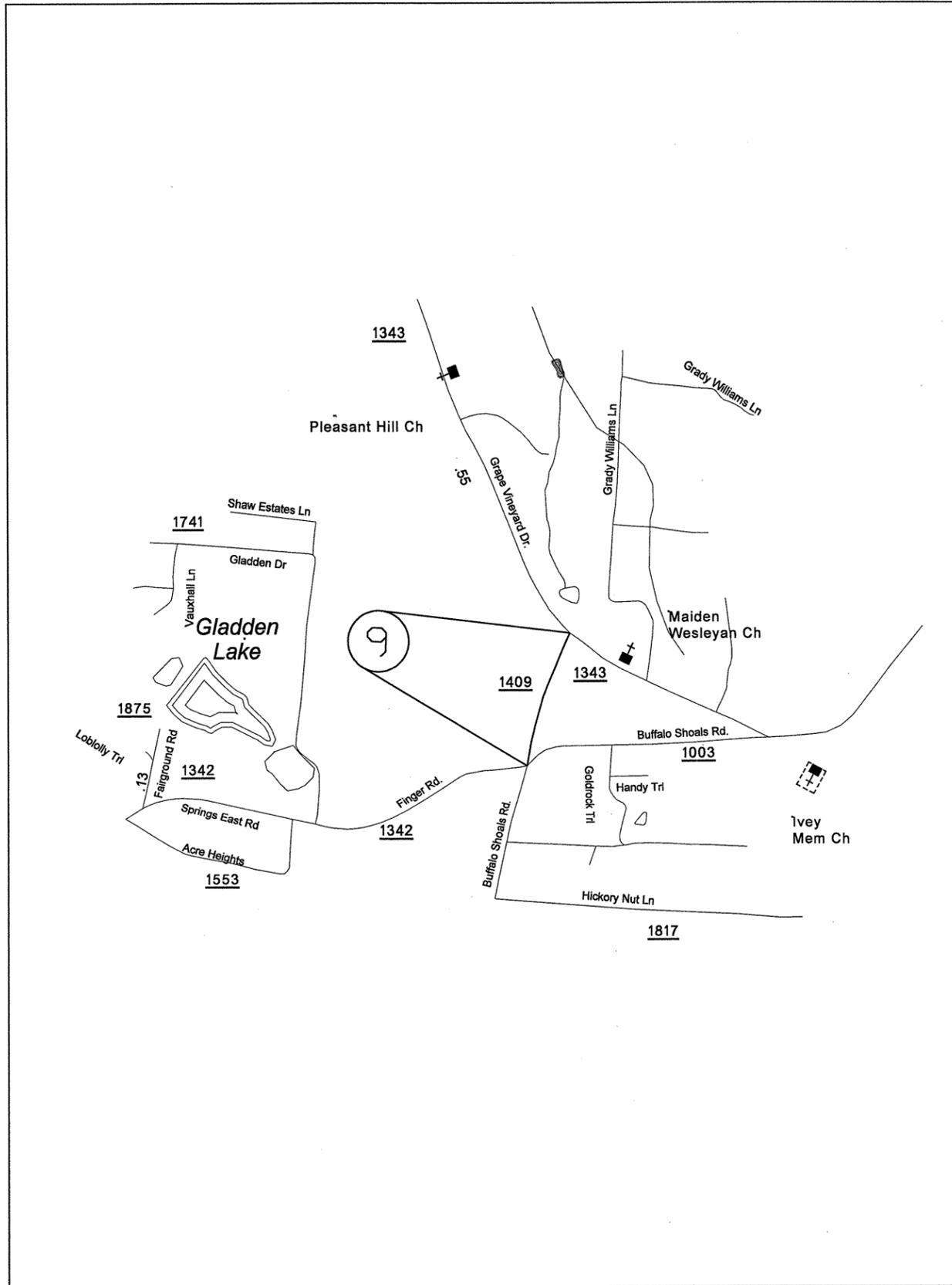




LINCOLN COUNTY
NORTH CAROLINA
WBS 12CR.10551.5
WBS 12CR.20551.7

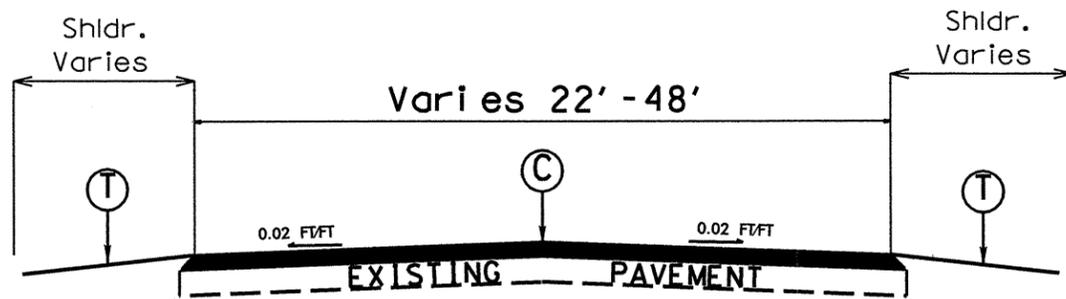


LINCOLN COUNTY
NORTH CAROLINA
WBS 12CR.10551.5
WBS 12CR.20551.7



LINCOLN COUNTY
 NORTH CAROLINA
 WBS 12CR.10551.5
 WBS 12CR.20551.7



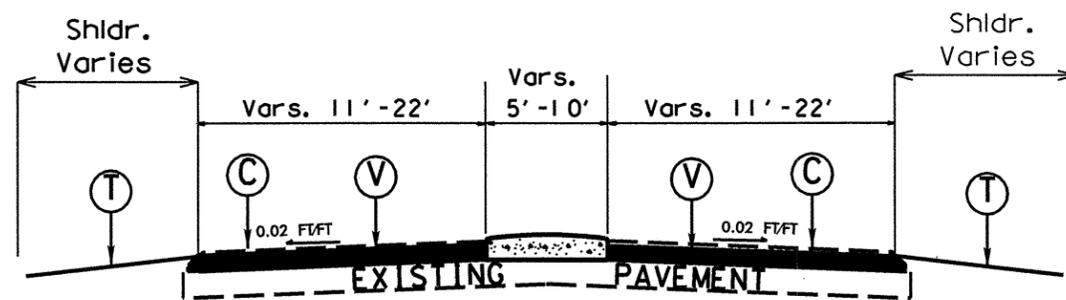


TYPICAL SECTION NO. 1

(Entire Maps # 2 - 4)

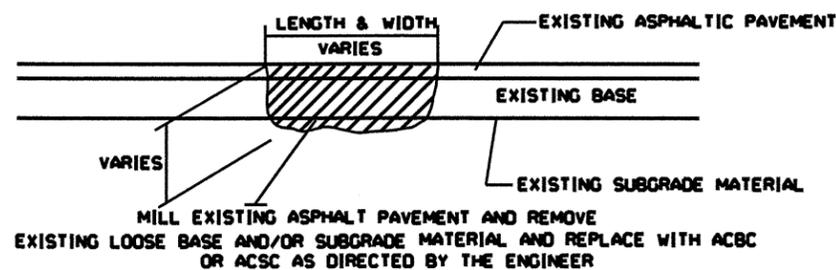
(Map #1 NC 150 0+00 - 43+75)

••Note: Sta 0+00 being at the end of new pavement for the new NC 150 around Crouse and increasing in a north easterly direction.

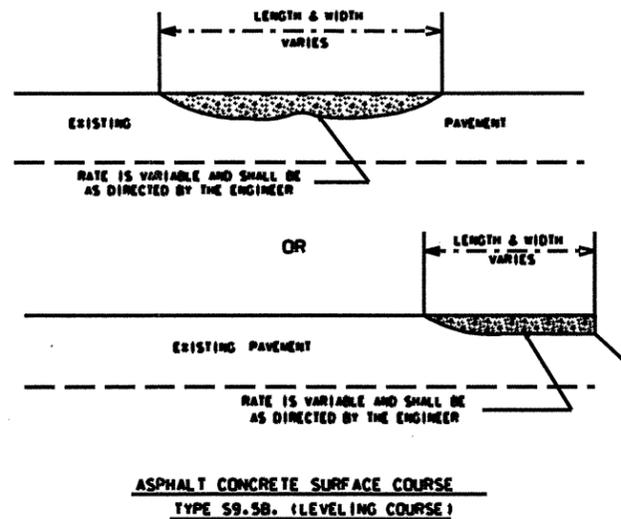


TYPICAL SECTION NO. 2

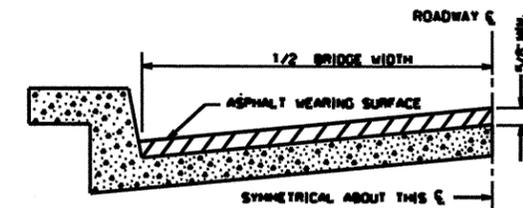
(Map #1 NC 150 43+75 - 48+25)



PATCHING EXISTING PAVEMENT



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



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 ROAD, 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.

PAVEMENT SCHEDULE

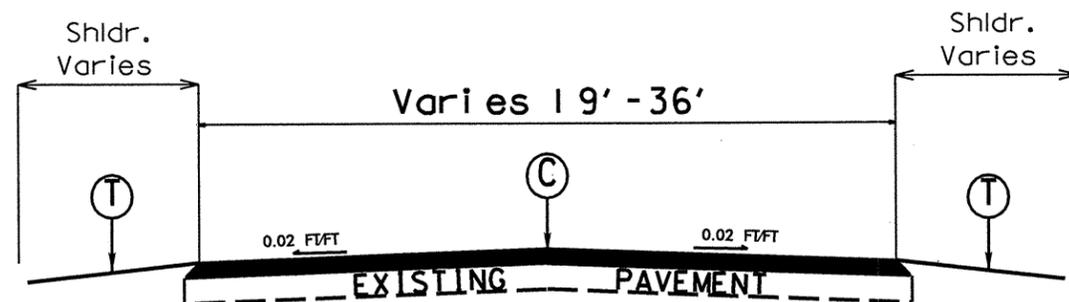
C	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	EARTH MATERIAL
V	Mill Asphalt Pavement Approximately 0 - 3"

General Notes:

- Pavement edge slopes are 1:1 unless specified otherwise.
- Mill bridge approaches 100' to provide a smooth transition or as directed by the Engineer.

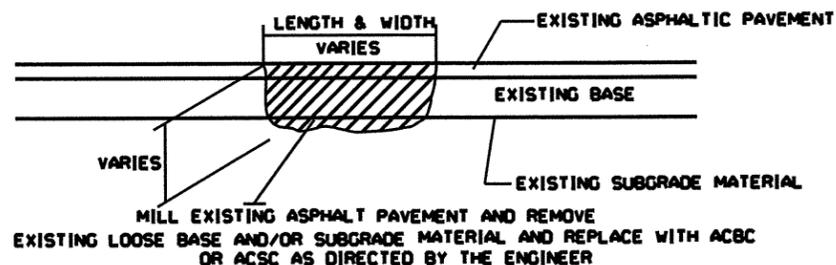
Lincoln County
Resurfacing 2008

Checked by: B-13-07
Designed by: GHB

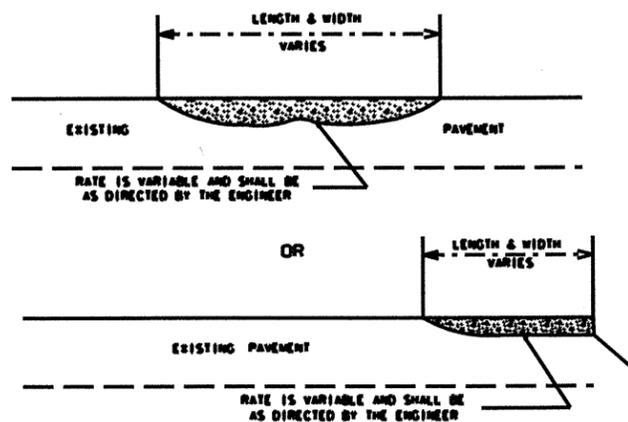


TYPICAL SECTION NO. 3

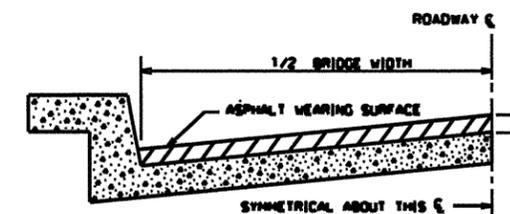
••Note: Shoulder Reconstruction applies only as shown on the summary of quantities.



PATCHING EXISTING PAVEMENT



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



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 RADIUS 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.

PAVEMENT SCHEDULE

C	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
T	EARTH MATERIAL
V	Mill Asphalt Pavement Approximately 0 - 3"

General Notes:

- Pavement edge slopes are 1:1 unless specified otherwise.
- Mill bridge approaches 100' to provide a smooth transition or as directed by the Engineer.

Lincoln County
Resurfacing 2008

Checked by:

8-13-07

Designed by: GHB

PROJECT NO.	SHEET NO.	TOTAL NO.
12CR.10551.5, 12CR. 20551.7	10	

SUMMARY OF QUANTITIES

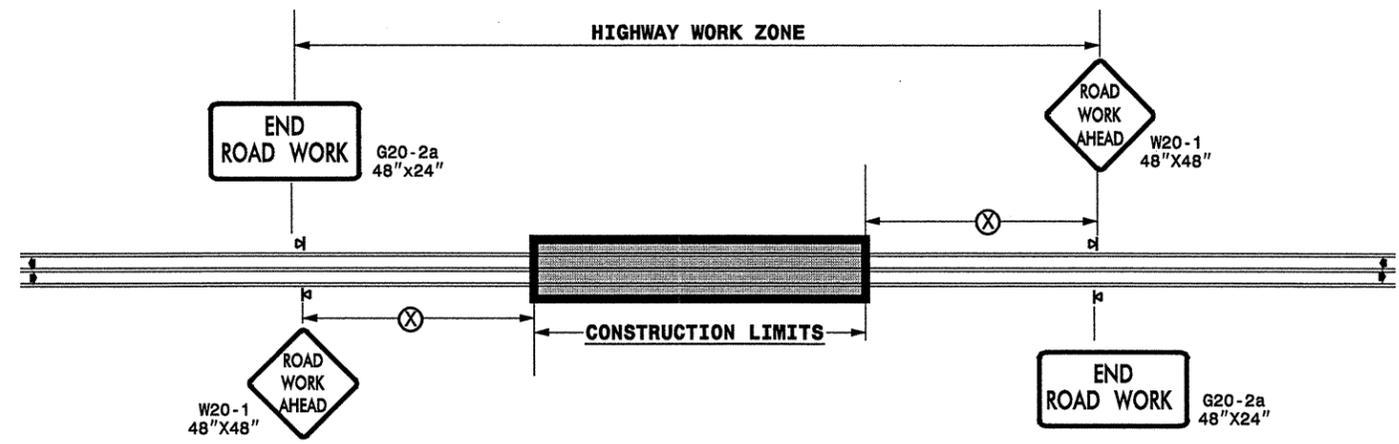
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LENGTH MI	WIDTH FT	INCIDENTAL STONE BASE TONS	SHOULDER RECONST. SMI	0" - 3" MILLING SY	INCIDENTAL MILLING SY	SURFACE COURSE, S9.5B TONS	LEVELING COURSE, S9.5B TONS	PG 64-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	METER OR VALVE BOX EA	PORTABLE LIGHTING LS	
12CR.10551.5	Lincoln	1	NC150	FROM NEW PAVEMENT 925' W. OF INDIAN CRK. BRDG. TO 265' W OF SR1407	1	0.82	23											
		2	NC 150 BYPASS	FROM NC 150 TO 321 B OVERPASS	2	0.09	vars. 22-44	20	1.82	2500		1,299	130	86	195			
		3	NC150 BYPASS	FROM 321B OVERPASS TO NC 27	1	2.38	vars. 23-48	60	4.76			1533	3,033	450	211	450	2	
		4	NC182	CLEVELAND COUNTY LINE TO SR 1157	1	1.72	vars 23-48	60	3.44			511	2,470	375	173	375	2	1
TOTAL FOR PROJ NO. 12CR.10551.5 (PRIMARY)						6.55		170	13.1	2500	2044	8,649	1,232	599	1,297	4	1	
12CR.20551.7	Lincoln	5	SR 1001 (PHILADELPHIA CH. RD.)	FROM SR1307 TO GASTON COUNTY LINE	3	1.7	22	60	3.4			2,039	306	142	204	1		
		6	SR 1307 (SALEM CH. RD.)	FROM SR 1001 TO US 321B	3	1.3	23	40	2.6			1,630	163	108	163	1		
		7	SR 1001 (SALEM CH. RD.)	FROM NC 27 TO SR 1307	3	3.67	vars.23-36	100	7.34			1,022	4,620	1,000	342	500	2	
		8	SR 1689 (JAMES ST.)	FROM NC 27 TO END OF PAVEMENT	3	0.25	19	30					259	30	18	30		
		9	SR 1409 (SHORTCUT RD.)	FROM SR 1003 TO SR 1343	3	0.19	19	20						237	15	30		
TOTAL FOR PROJ NO. 12CR.20551.7 (SECONDARY)						7.11		250	13.34	0	1,022	8,548	1,736	625	927	4	0	
LINCOLN COUNTY GRAND TOTAL						13.66		420	26.44	2500	3,066	17,197	2,968	1,224	2,224	8	1	

PROJECT NO.	SHEET NO.	TOTAL NO.
12CR.10551.5, 12CR.20551.7	11	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	468500000-E	468600000-E	471000000-E	472500000-E		481000000-E		490500000-N	
					4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	24" X 120 M WHITE THERMO LF	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	4" WHITE PAINT LF	4" YELLOW PAINT LF	SNOW PLOWABLE MARKERS EA	
12CR.10551.5	Lincoln	1	NC150	FROM NEW PAVEMENT 925' W. OF INDIAN CRK. BRDG. TO 265' W OF SR1407	19,500	19,500						65	
		2	NC 150 BYPASS	FROM NC 150 TO 321 B OVERPASS	26,500	25,000	60					175	
		3	NC150 BYPASS	FROM 321B OVERPASS TO NC 27	18,500	18,500	240	15	3				225
		4	NC182	CLEVELAND COUNTY LINE TO 1157						32,200	32,200		100
TOTAL FOR PROJ NO. 12CR.10551.5 (PRIMARY)					64,500	63,000	300	15	3	32,200	32,200	565	
12CR.20551.7	Lincoln	5	SR 1001 (PHILADELPHIA CH. RD.)	FROM SR 1307 TO COUNTY LINE						36,000	36,000		
		6	SR 1307 (SALEM CH. RD.)	FROM SR 1001 TO US 321B						28,000	28,000		
		7	SR 1001 (SALEM CH. RD.)	FROM NC 27 TO SR 1307			36	2	2	80,000	80,000		
		8	SR 1689 (JAMES ST.)	FROM NC 27 TO END OF PAVEMENT									
		9	SR 1409 (SHORTCUT RD.)	FROM SR 1003 TO SR 1343						4,500	4,500		
TOTAL FOR PROJ NO. 12.CR20551.7 (SECONDARY)					0	0	36	2	2	148,500	148,500	0	
LINCOLN CNTY. GRAND TOTAL					64,500	63,000	336	17	5	180,700	180,700	565	
								22		361,400			

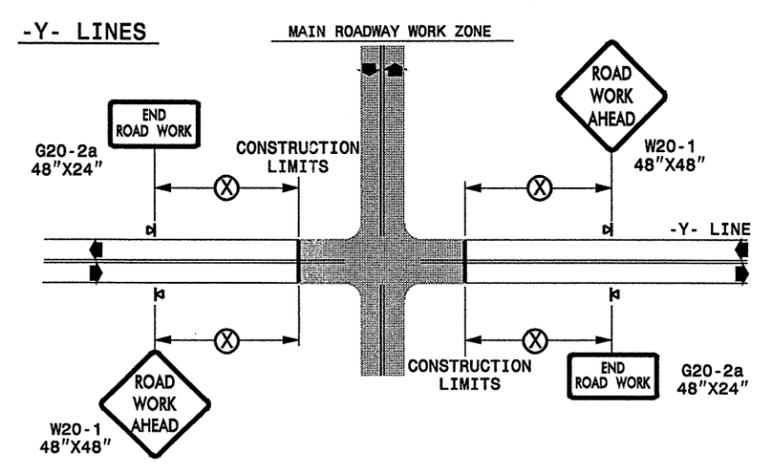
TWO-WAY UNDIVIDED ** (L-LINES)



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)



DETAIL DRAWING
FOR TWO-WAY UNDIVIDED
WORK ZONE WARNING SIGNS

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

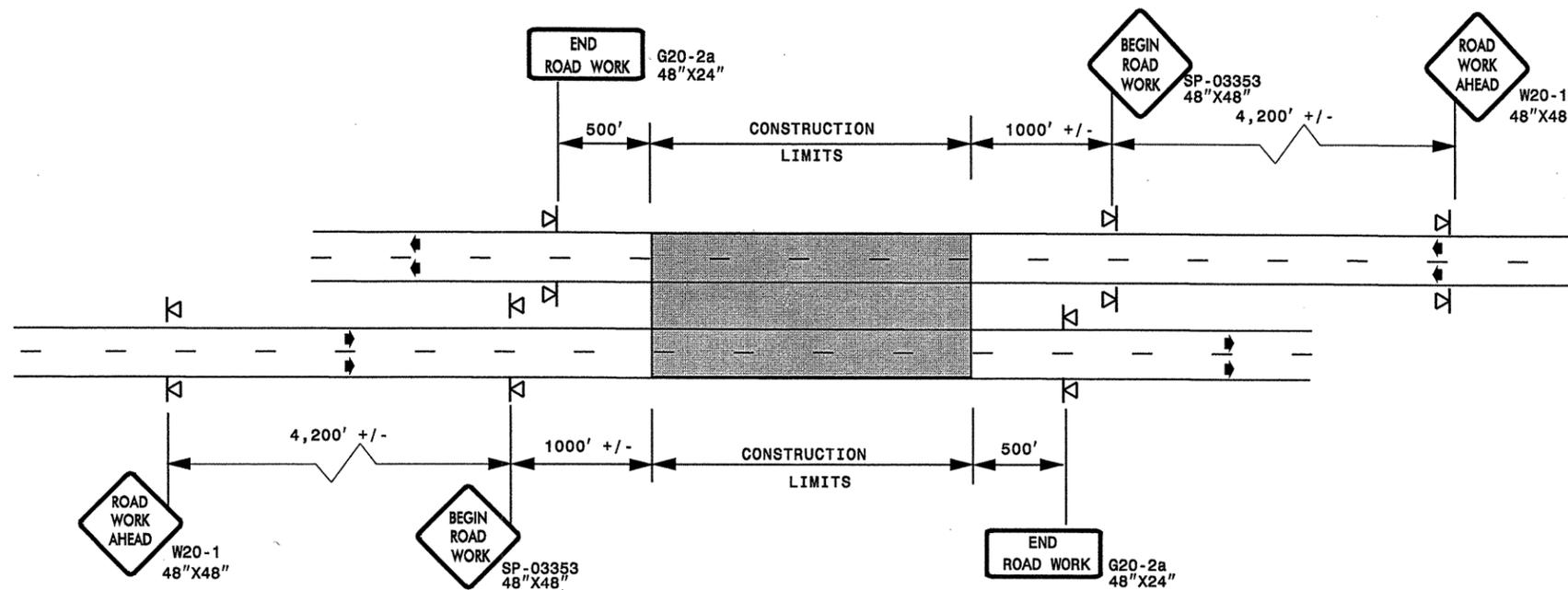
SHEET 1 OF 1

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR TWO-WAY UNDIVIDED ADVANCED WORK ZONE WARNING SIGNS									
SEAL	SCALE: NONE	 <table border="1"> <tr> <th colspan="2">REVISIONS</th> </tr> <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> </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										
DATE: _____	DESIGN BY: _____										
DWG. BY: _____	REVIEWED BY: _____										
DESIGN BY: _____	REVIEWED BY: _____										

24-SEP-2007 18:40
 \N001\DESIGN\GROUPS-WZTCCC\design\group4\resurfacing\resurfacing2007\div2\c201915\j2cr105515etc\lincoln_ncl50515etc\c2wayundivurbfrwys\july2006.dgn
 pseymore AT WZTCC206427

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

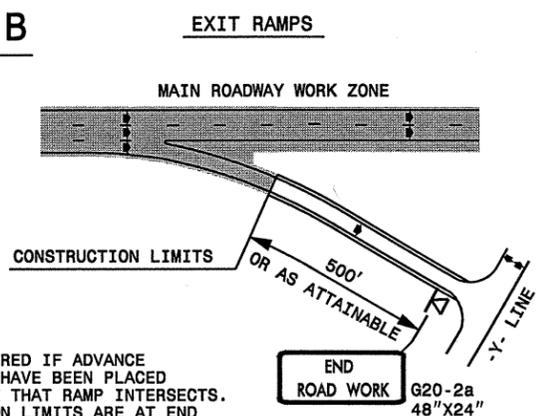
DETAIL A



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

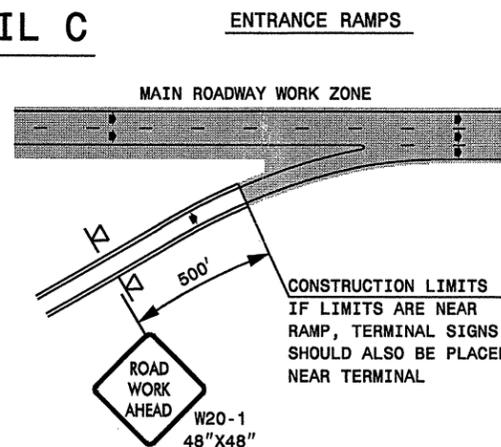
ROADWAYS INTERSECTING ALONG FREEWAY WORK ZONE (Y-LINES)

DETAIL B

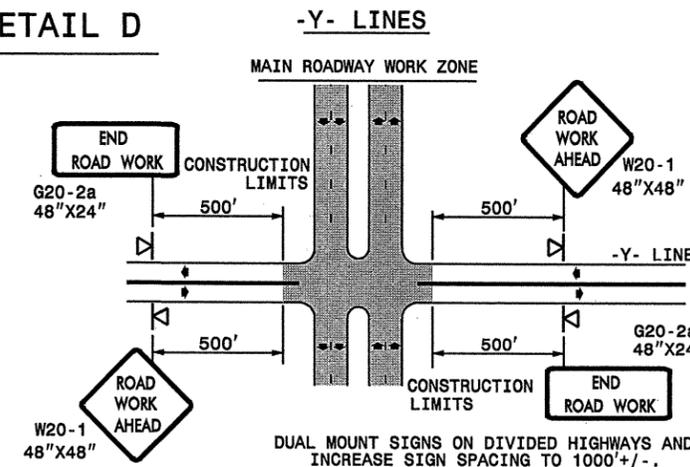


NOTE:
 SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

DETAIL C



DETAIL D



GENERAL NOTES

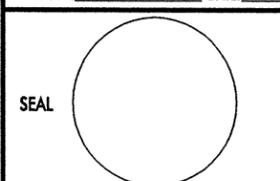
- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH 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

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

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: _____			

24-SEP-2007 18:41
 \\DOT\DFSR001\GROUPS-WZTCCC\design\group4\resur\facimg\2007\dfv2\c201915_12cr105515etc_incoln.nci50etc\12cr105515etc\free4lanesgreat\July2006.dgn
 pseymore AT WZTCCC

SP 03353

SIGN NUMBER: SP-03353	BACKG COLOR: Fluorescent Orange	DESIGN BY: CL DOWNEY	CHECKED BY: CHECKED	STD #: W20-1	
TYPE: A	COPY COLOR: Black	PROJECT ID: ALL PROJECTS	DIV: DIV	DATE: Aug 20, 2003	
QUANTITY: 1	SYMBOL	X	Y	WID	HT
SIGN WIDTH: 4'-0"					
HEIGHT: 4'-0"					
TOTAL AREA: 16.0 Sq.Ft.					
BORDER TYPE: FLUSH					
RECESS: 0.59"					
WIDTH: 0.75"					
RADII: 1.38"					
NO. Z BARS: N/A	MAT'L:				
LENGTH: N/A					

USE NOTES: 2, 4

- Legend and border shall be direct applied Type VII reflective sheeting.
- Legend and border shall be direct applied non-reflective sheeting.
- Shields shall be Type VII reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
- Background shall be Type VII reflective sheeting.
- Background shall be Type I reflective sheeting.
- Center arrow(s) vertically on sign.
- Bottom panel shall be yellow Type III sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter spacings are to start of next letter

	B	E	G	I	H		Series/Size
	22.4	5.3	4.6	5.4	2.5	3.8	Text Length
R	0	A	D				C7
23.4	5	5.2	5.6	3.8	23.4		21.6
							C7
19.6							19.6
							C7
21.2							21.2

Spacing Factor is 1 unless specified otherwise

FILENAME: SPEC286X

NORTH CAROLINA D.O.T. SIGN DETAIL

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

DETAIL DRAWING FOR
WORK ZONE SIGNS
BEGIN ROAD WORK

GENERAL NOTES FOR SIGN SP-03353 "BEGIN ROAD WORK"

- SIGN SP-03353 "BEGIN ROAD WORK" ONLY APPLIES TO FULL CONTROL AND PARTIAL CONTROL OF ACCESS ROADWAYS
- WHEN USED, INSTALL SIGN SP-03353 "BEGIN ROAD WORK" ACCORDING TO DETAIL FOR FREEWAY WORK ZONE SIGNS

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR ADVANCED WORK ZONE WARNING SIGN DESIGNS	
SEAL 	SCALE: NONE	REVISIONS	
	DATE: 0803	04/04	
	DWG. BY:	11/04	
	DESIGN BY:		
REVIEWED BY:			

24-SEP-2007 18:41
 \\DOT\DFSR00701\GROUPS-WZT\ccc\designgroup4\resur_facing\resur_facing2007\div2\c201915_12cr105515etfcsignDesigns\July2006.dgn
 AT WZTC206427
 pseymore