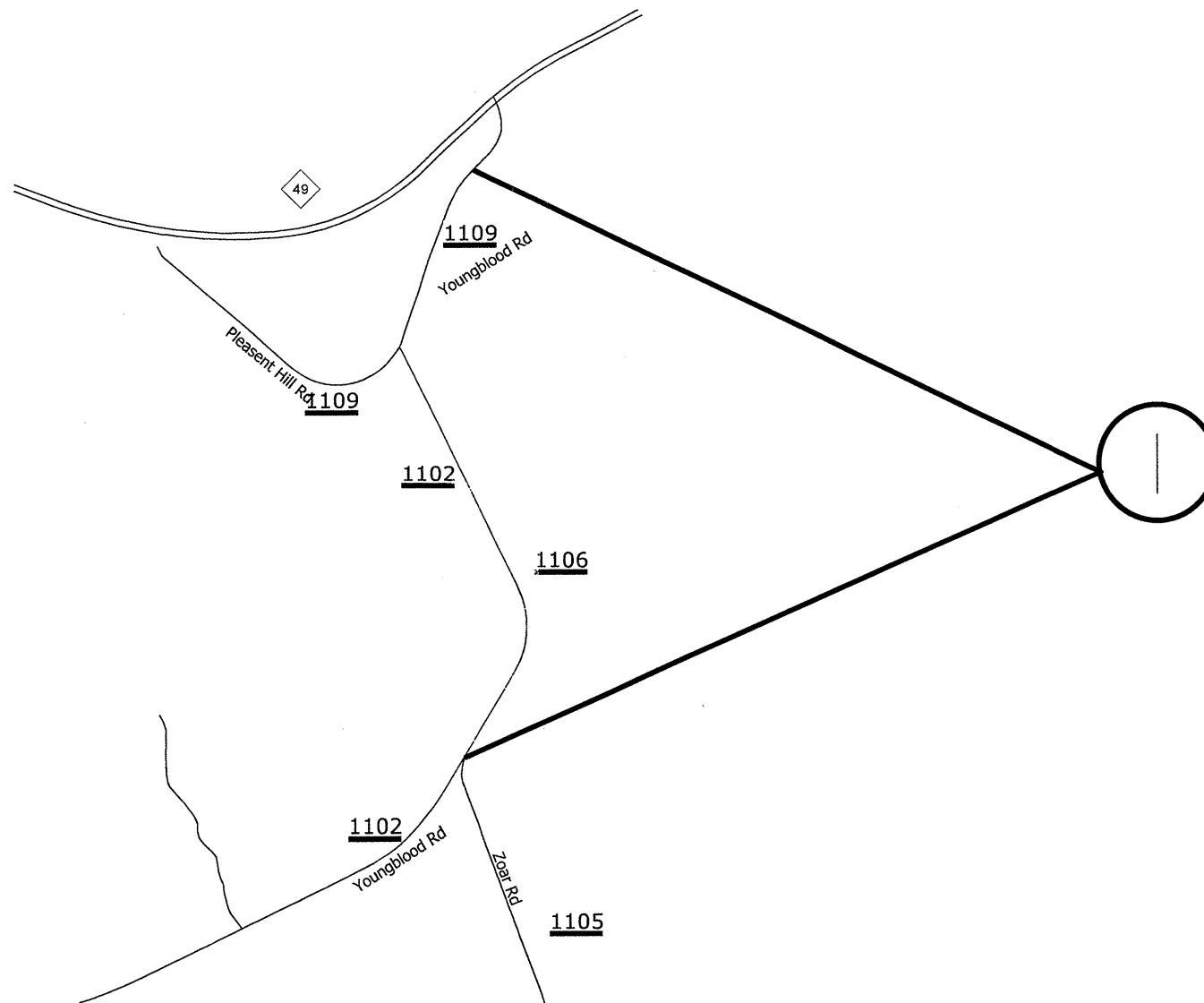


STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		1	
F.A. PROJECT NO. 10CR.20601.114...ETC			



MAP

DESCRIPTION

Youngblood Rd (SR 1109/1102) FROM Pvmt Jt South of NC 49 to Zoar Rd

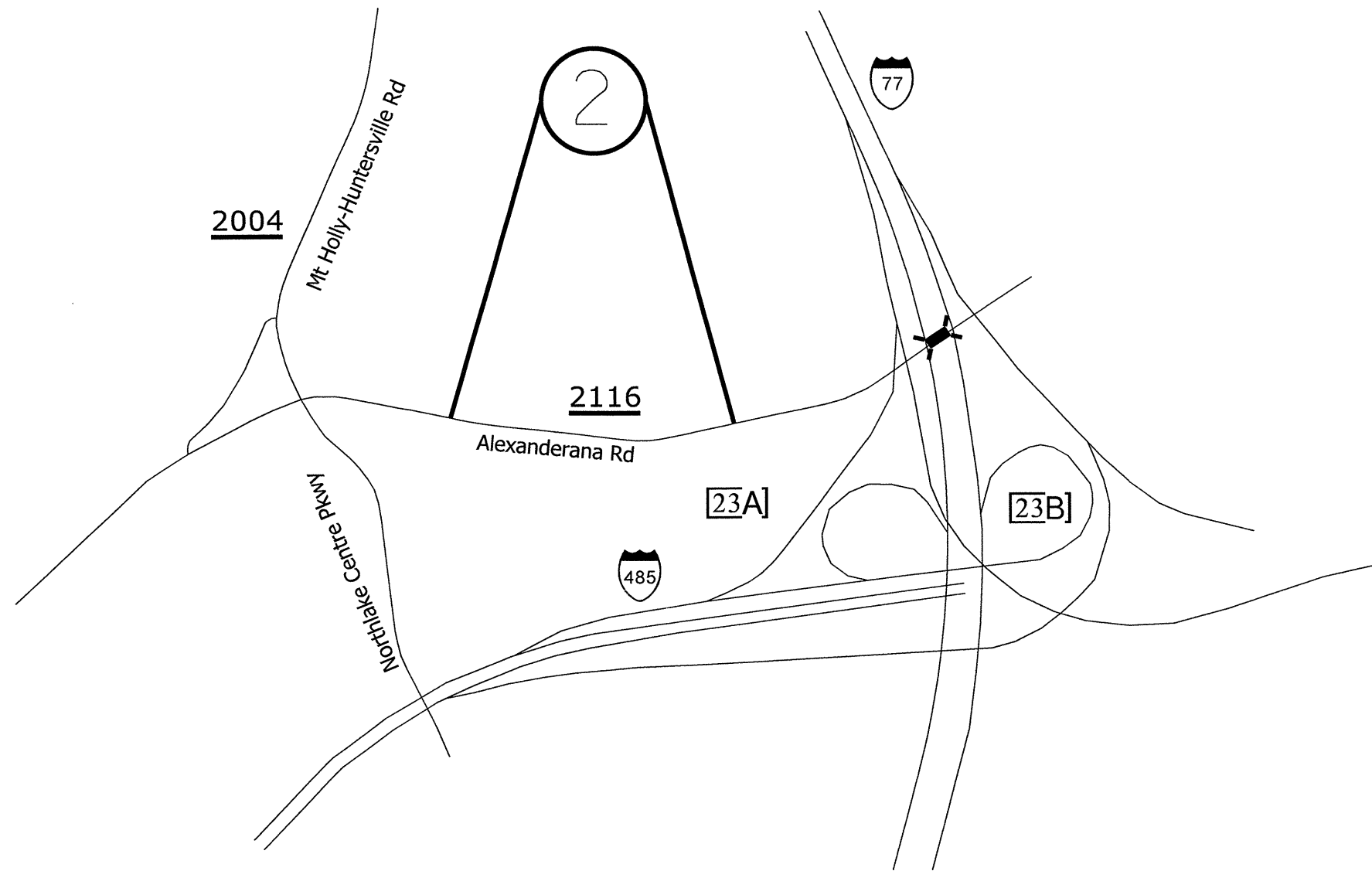
2011 MECKLENBURG COUNTY
RESURFACING

SCALE -NA-
DATE 05/11
DWG. BY RAD
DESIGN BY JSL
APPROVED



REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		2	
F.A. PROJECT NO. 10CR.20601.114...ETC			



MAP

Alexanderana Rd (SR 2116)

DESCRIPTION

FROM Pvmt Jt at I-485 to Pvmt Jt at SR 2004

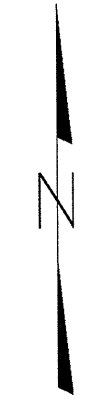
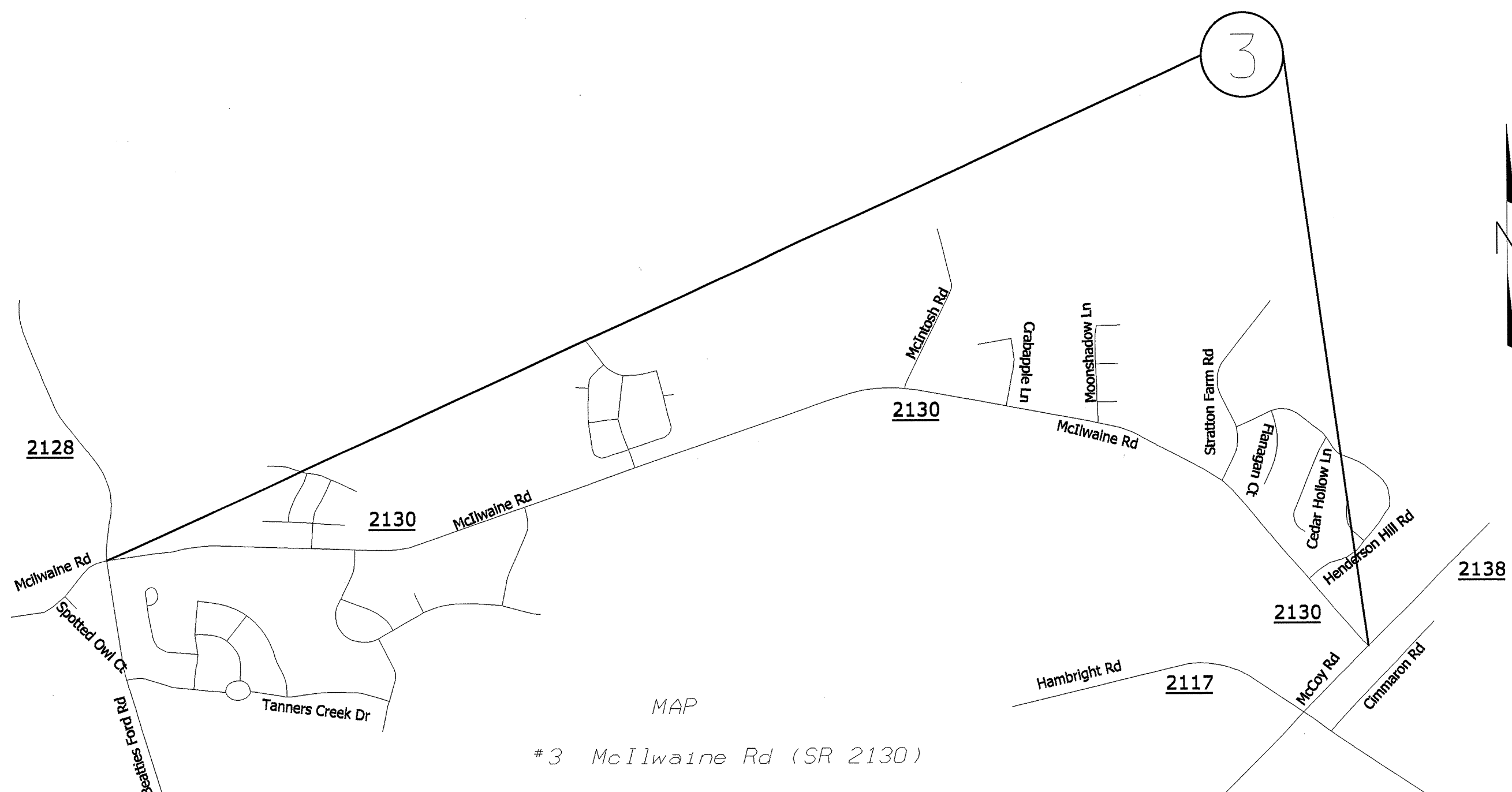
2011 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	05/11
DWG. BY	RAO
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		3	
F.A. PROJECT NO. 10CR.20601.114...ETC			



MAP

#3 McIlwaine Rd (SR 2130)

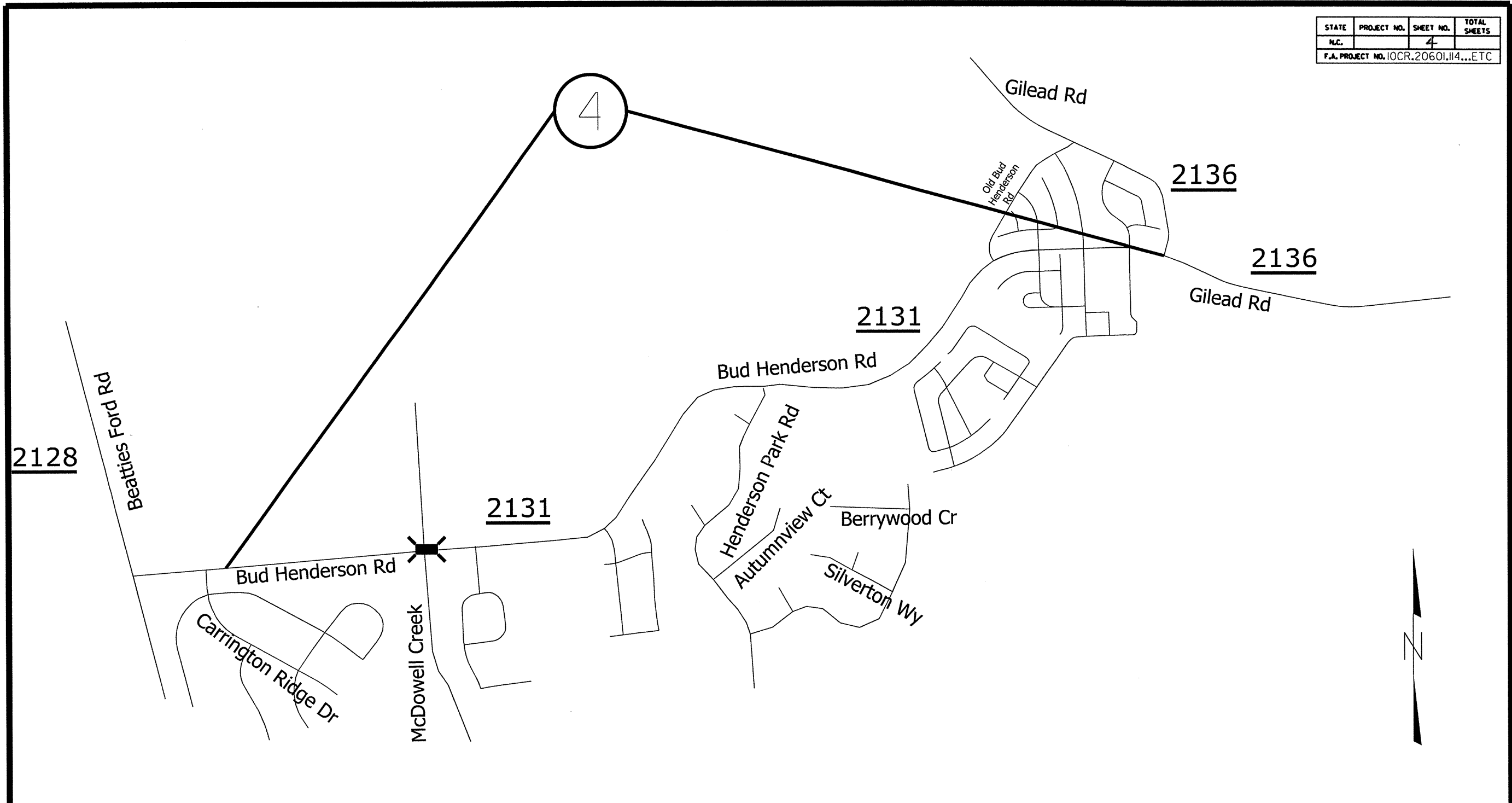
DESCRIPTION

FROM McCoy Rd (SR 2138) to Beatties Ford Rd (SR 2128)

2012 MECKLENBURG COUNTY
RESURFACING

SCALE	-WA-		REVISIONS
DATE	05/11		
DWG. BY	RAQ		
DESIGN BY	JSL		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		4	
F.A. PROJECT NO. 10CR.20601.114...ETC			




MAP

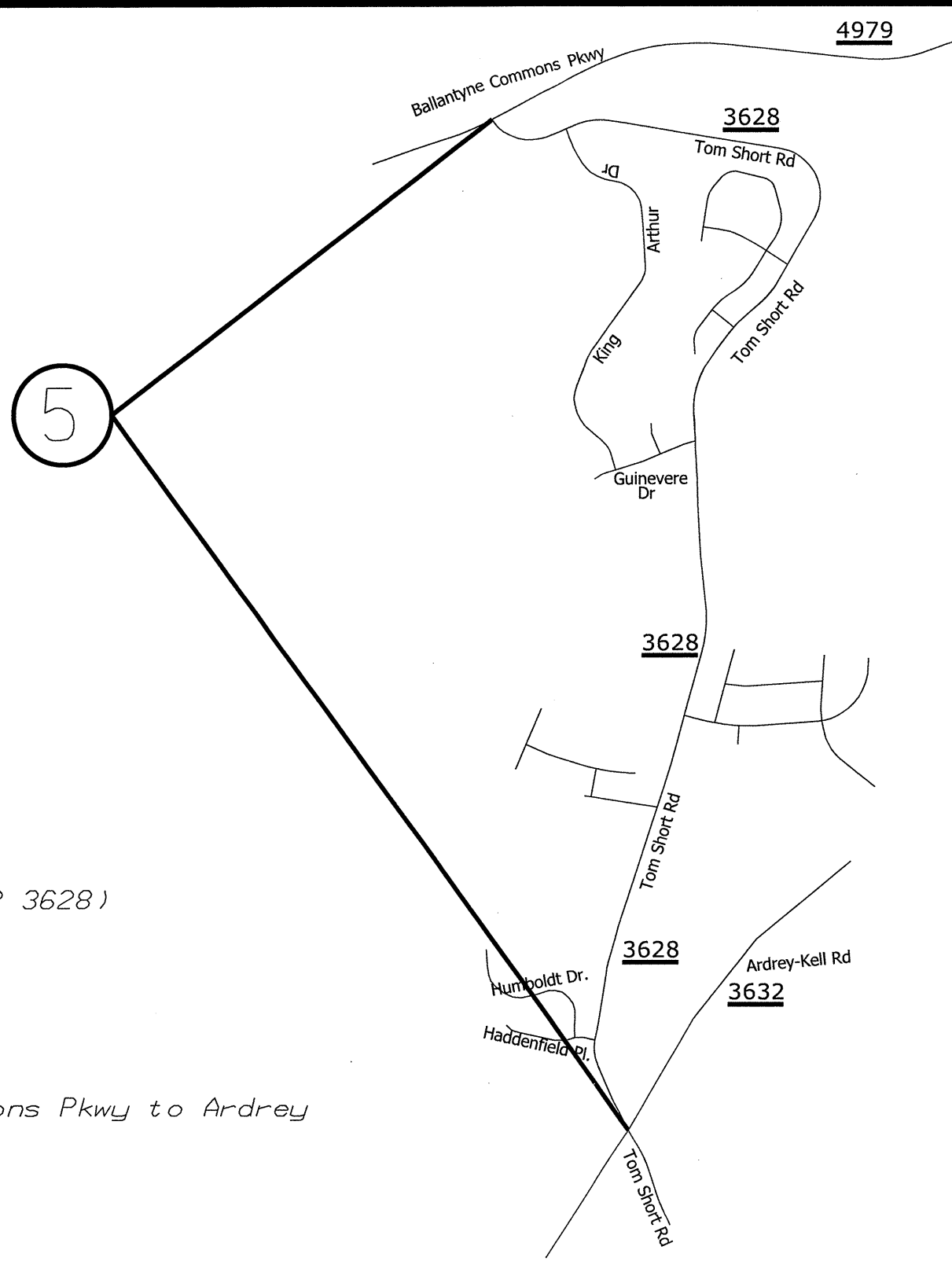
DESCRIPTION

* Bud Henderson Rd (SR 2131)

FROM Curb at Carrington Ridge Dr to Gilead Rd

2011 MECKLENBURG COUNTY RESURFACING												
SCALE	-NA-	 <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	REVISIONS									
REVISIONS												
DATE	05/11											
DWG. BY	RAD											
DESIGN BY	JSL											
APPROVED												

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		5	
F.A. PROJECT NO. 10CR.2060I,II4...ETC			



MAP

Tom Short Rd (SR 3628)

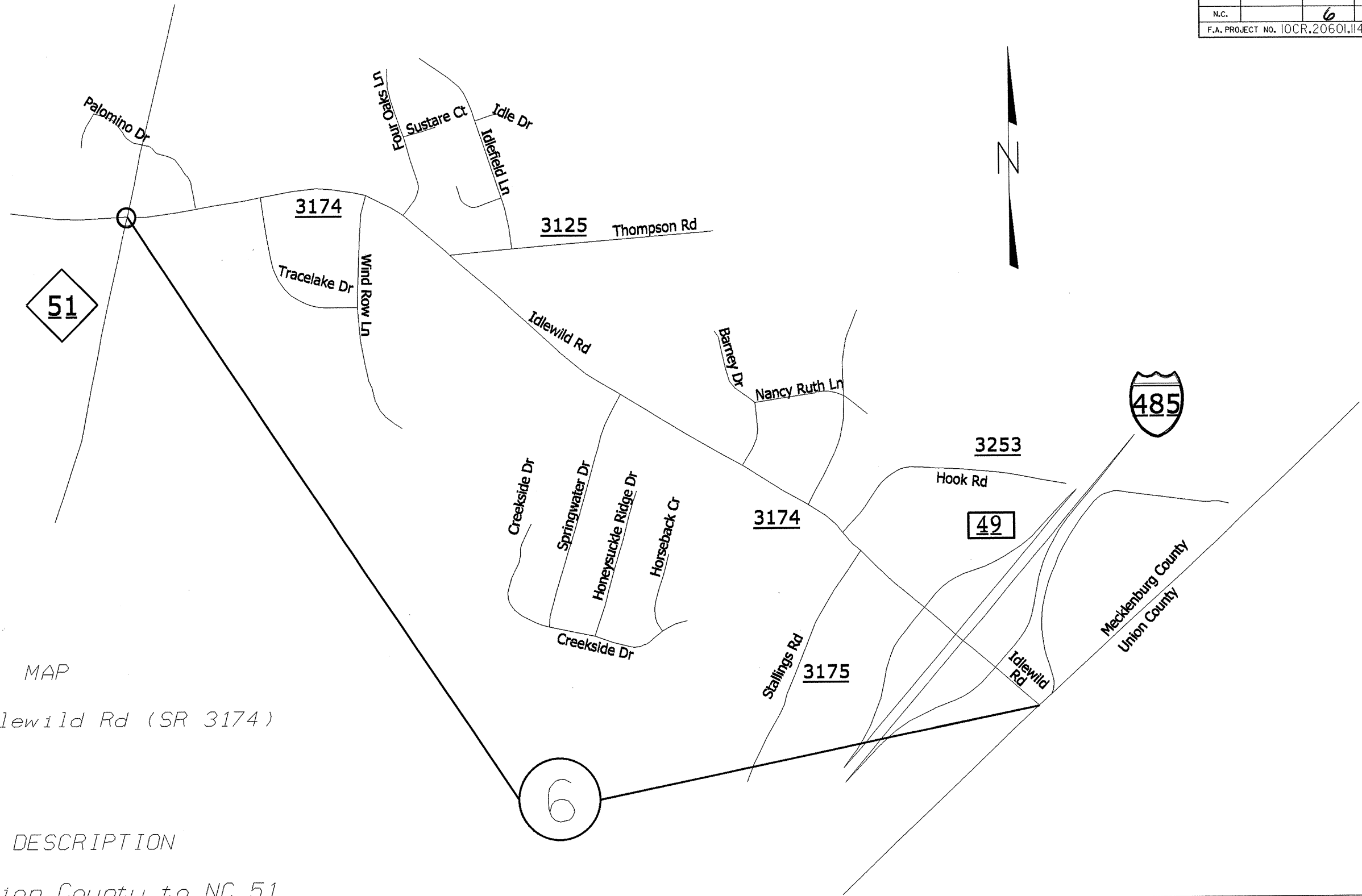
DESCRIPTION

FROM Ballantyne Commons Pkwy to Ardrey Kell Rd

2011 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-		REVISIONS
DATE	05/11		
ENG. BY	RAO		
DESIGN BY	JSL		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		6	
F.A. PROJECT NO. 10CR.20601.114...ETC			



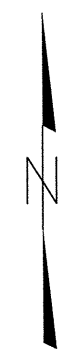
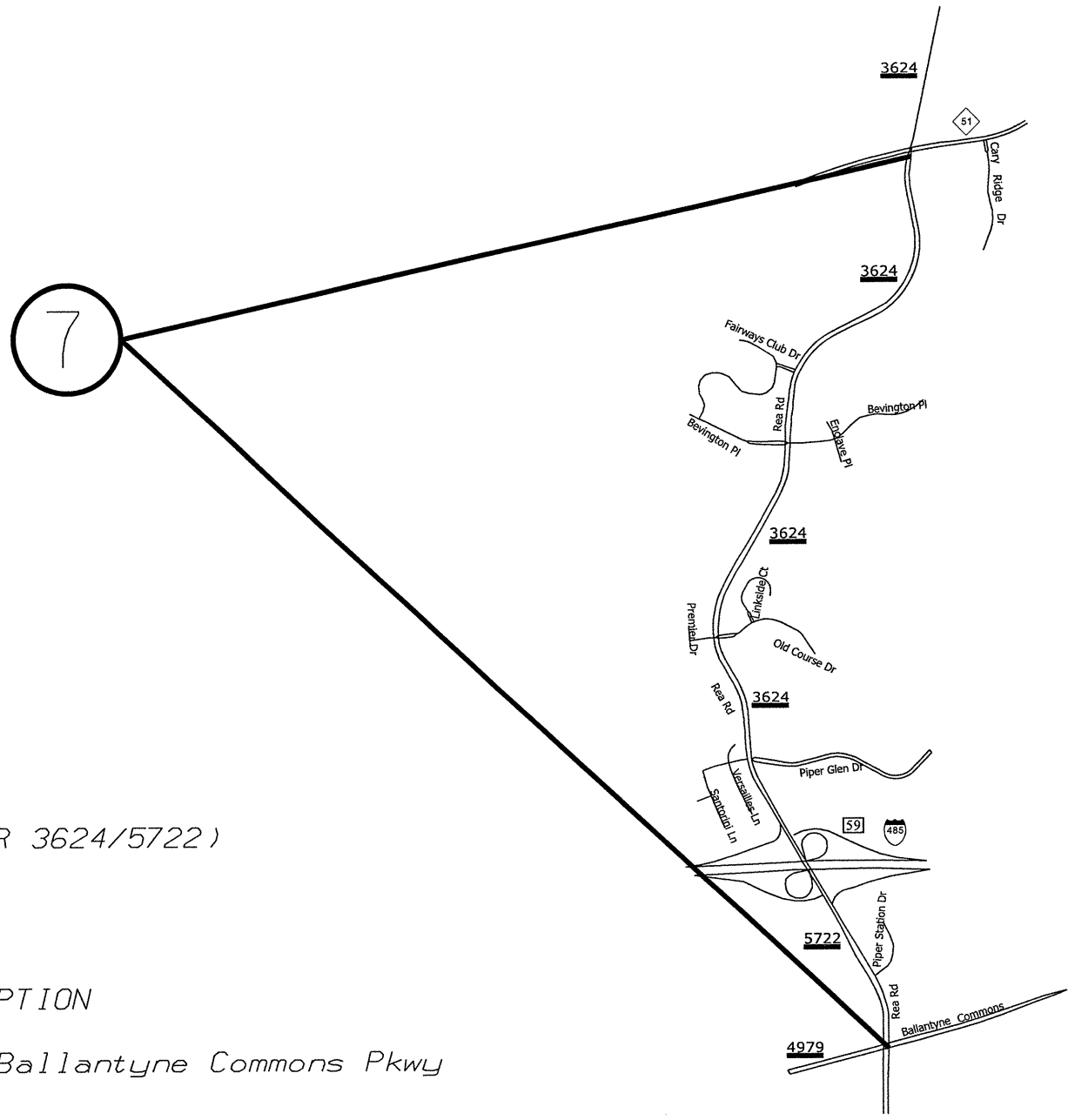
MAP
#6 Idlewild Rd (SR 3174)

DESCRIPTION
FROM Union County to NC 51

2012 MECKLENBURG COUNTY RESURFACING		
SCALE	-NA-	REVISIONS
DATE	05/11	
DWG. BY	RAO	
DESIGN BY	JSL	
APPROVED		



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		7	
F.A. PROJECT NO. 10CR.20601.114...ETC.			




MAP

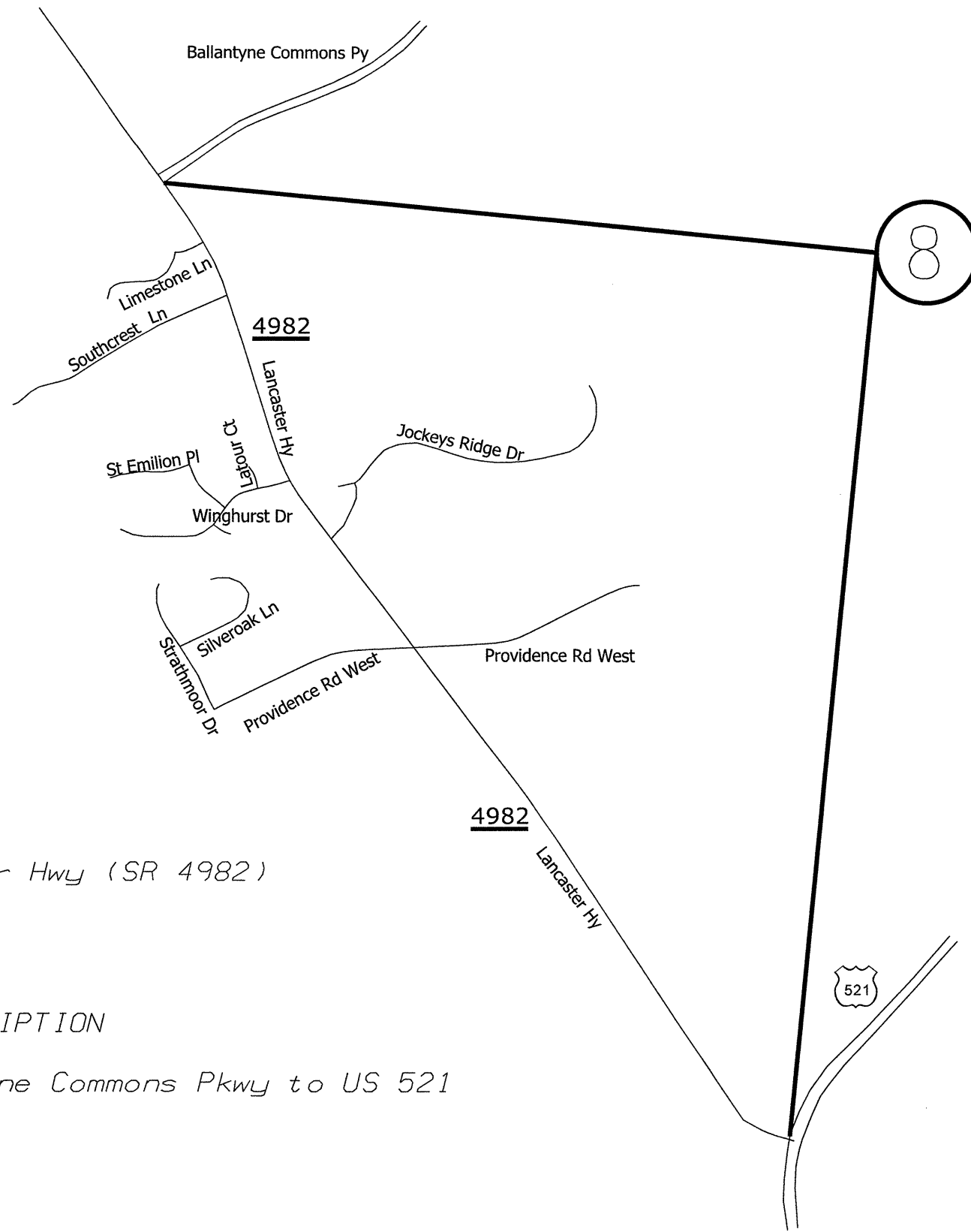
Rea Rd (SR 3624/5722)

DESCRIPTION

FROM NC 51 to Ballantyne Commons Pkwy

2011 MECKLENBURG COUNTY RESURFACING			
SCALE	-NA-		REVISIONS
DATE	05/11		
DESIGNED BY	RAO		
DESIGNED BY	JSL		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		8	
F.A. PROJECT NO. 10CR.20601.114...ETC			



MAP

Lancaster Hwy (SR 4982)

DESCRIPTION

FROM Ballantyne Commons Pkwy to US 521

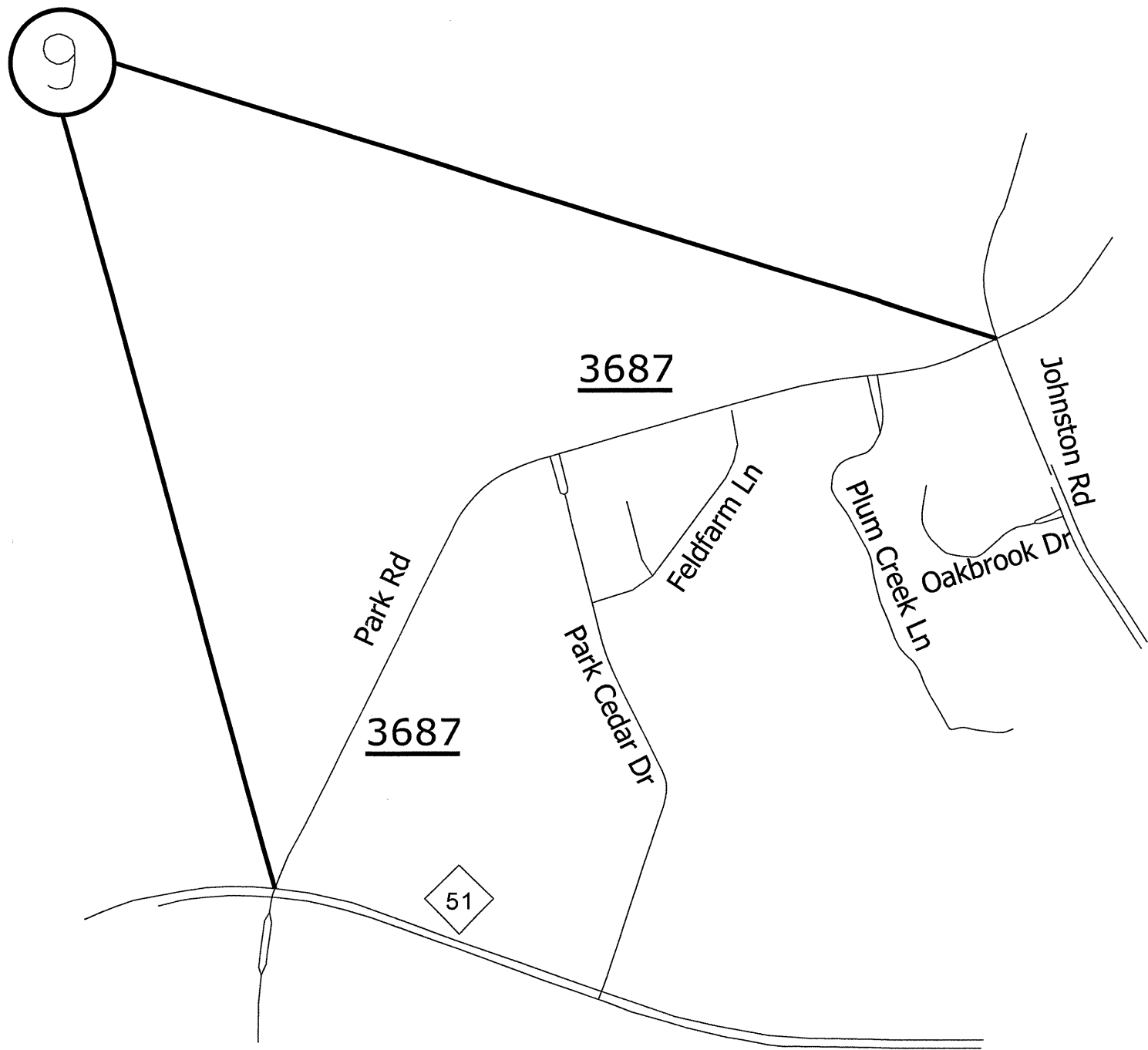
2011 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-
DATE	05/11
DWG. BY	RAD
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		9	
F.A. PROJECT NO. 10CR.20601.14...ETC			



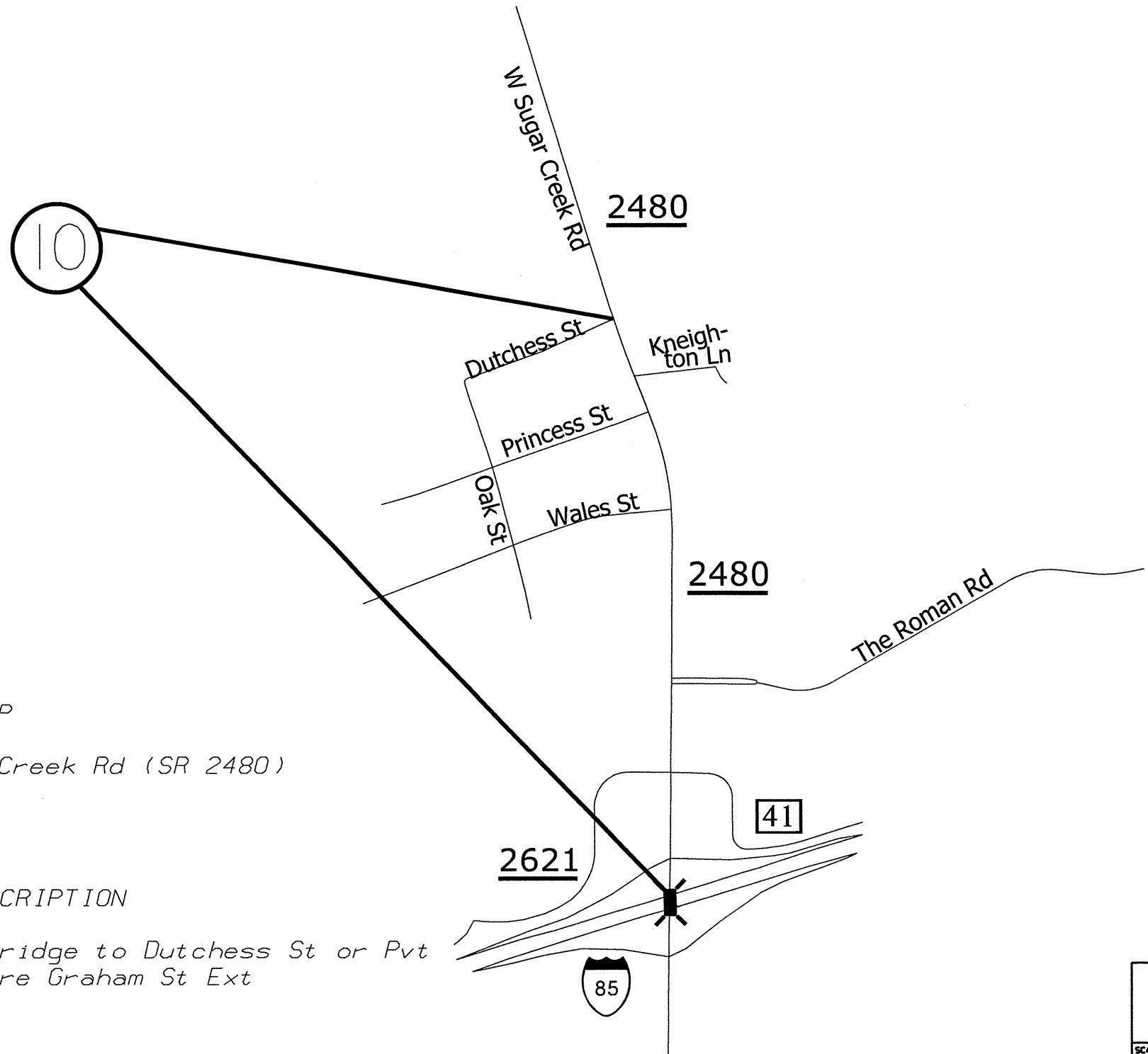
MAP
 # Park Rd (SR 3687)

DESCRIPTION
 FROM NC 51 to Johnston Rd

2011 MECKLENBURG COUNTY RESURFACING		
SCALE	-NA-	REVISIONS
DATE	05/11	
DWG. BY	RAQ	
DESIGN BY	JSL	
APPROVED		



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		10	
F.A. PROJECT NO. 10CR.20601.114...ETC			



MAP

Sugar Creek Rd (SR 2480)

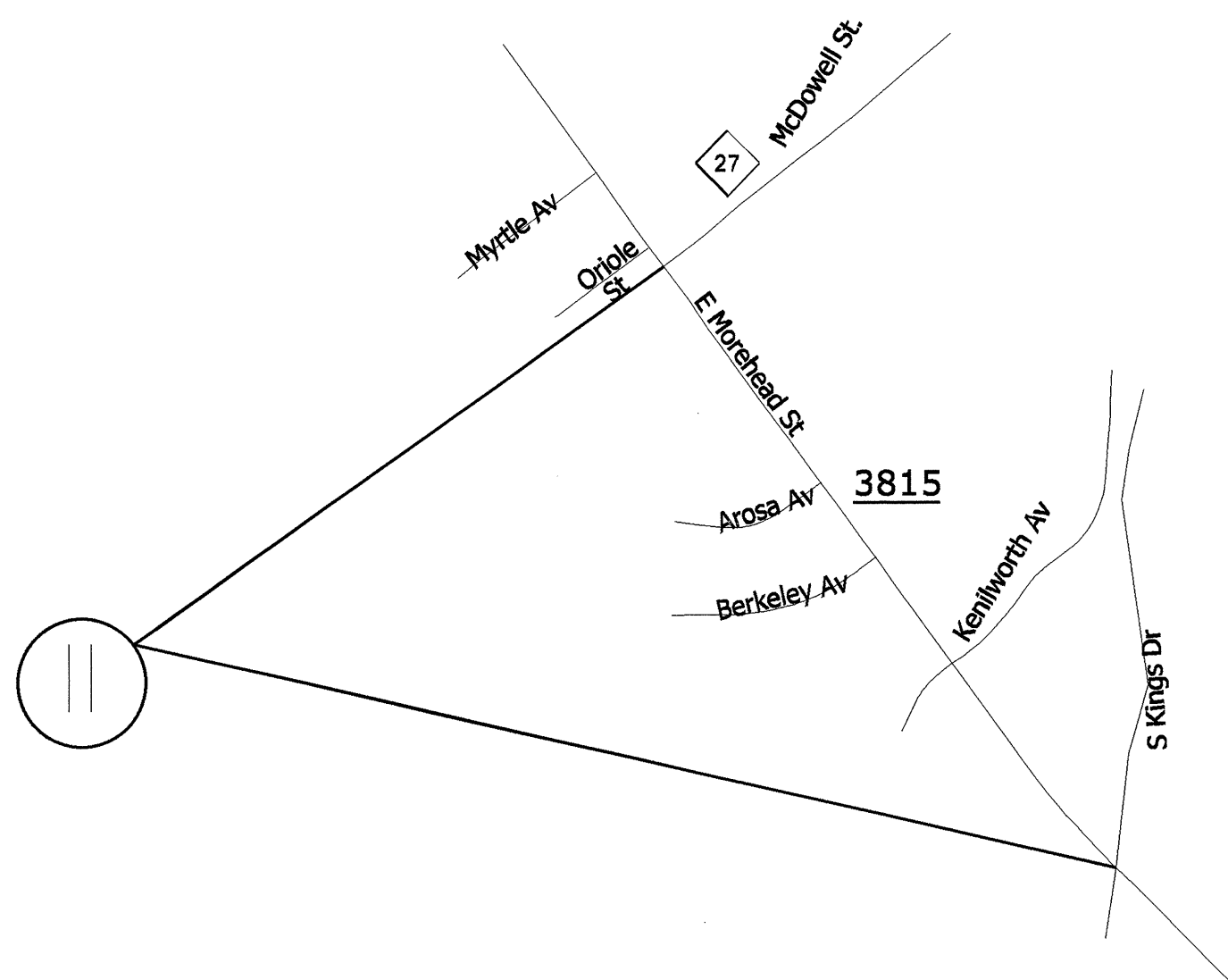
DESCRIPTION

FROM I-85 Bridge to Dutchess St or Pvt Jt for Future Graham St Ext

2011 MECKLENBURG COUNTY RESURFACING

SCALE	-BA-		REVISIONS
DATE	05/11		
DWG. BY	RAO		
DESIGN BY	JL		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		11	
F.A. PROJECT NO. 10CR.20601.114...ETC			



MAP

DESCRIPTION

11 E. Morehead St (SR 3815)

FROM McDowell St (NC 27) to Kings Dr

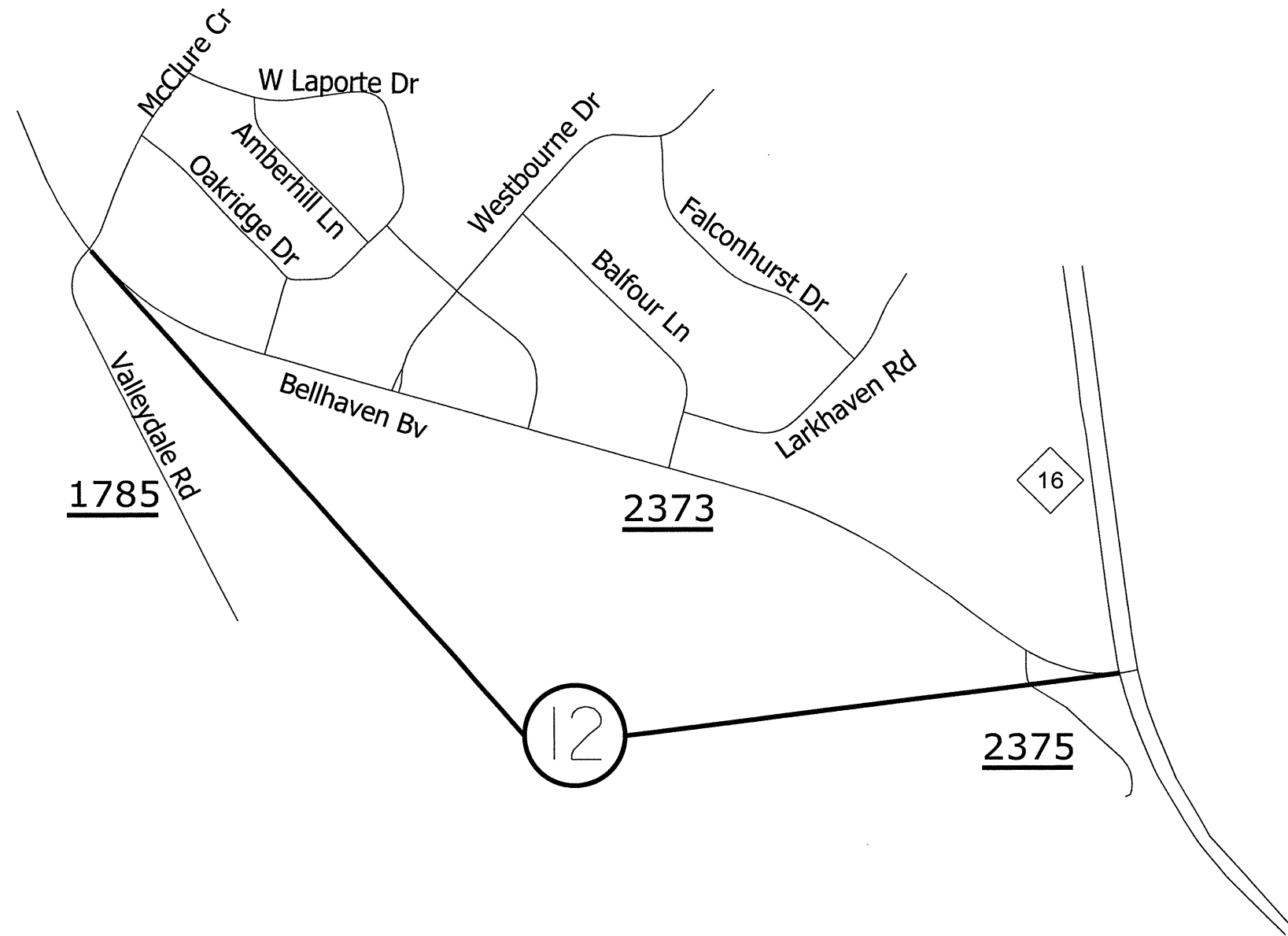
2012 MECKLENBURG COUNTY
RESURFACING

SCALE	-WA-
DATE	05/11
DWG. BY	RAQ
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		12	
F.A. PROJECT NO. IOCR.20601.114...ETC			



1785

2373

16

2375

12

MAP

DESCRIPTION

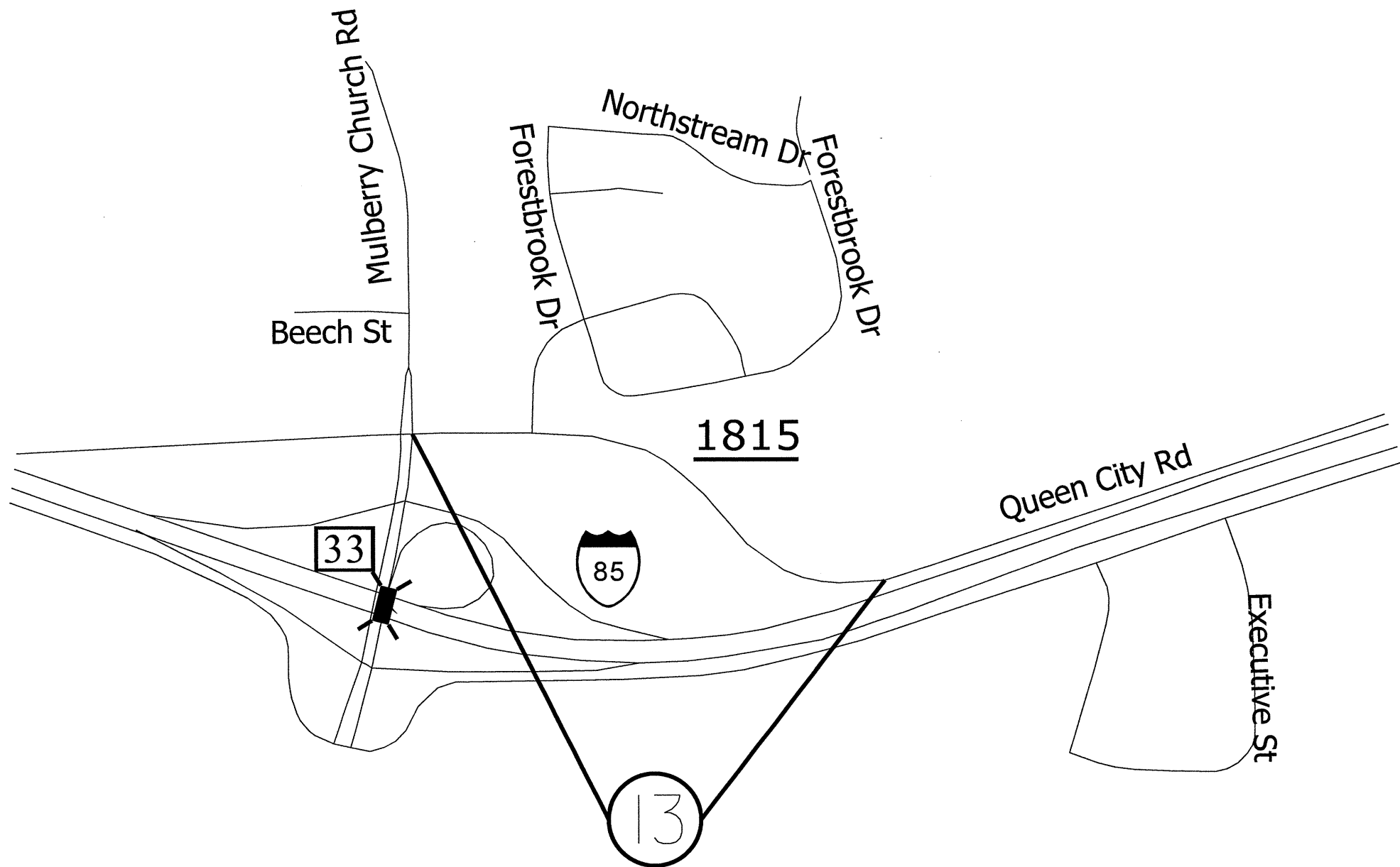
* Bellhaven Blvd (SR 2373)

FROM Valleydale Rd to NC 16

2011 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-		REVISIONS
DATE	05/11		
DWG. BY	RAO		
DESIGN BY	JSL		
APPROVED			

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		13	
F.A. PROJECT NO. 10CR.20601.114...ETC			




MAP

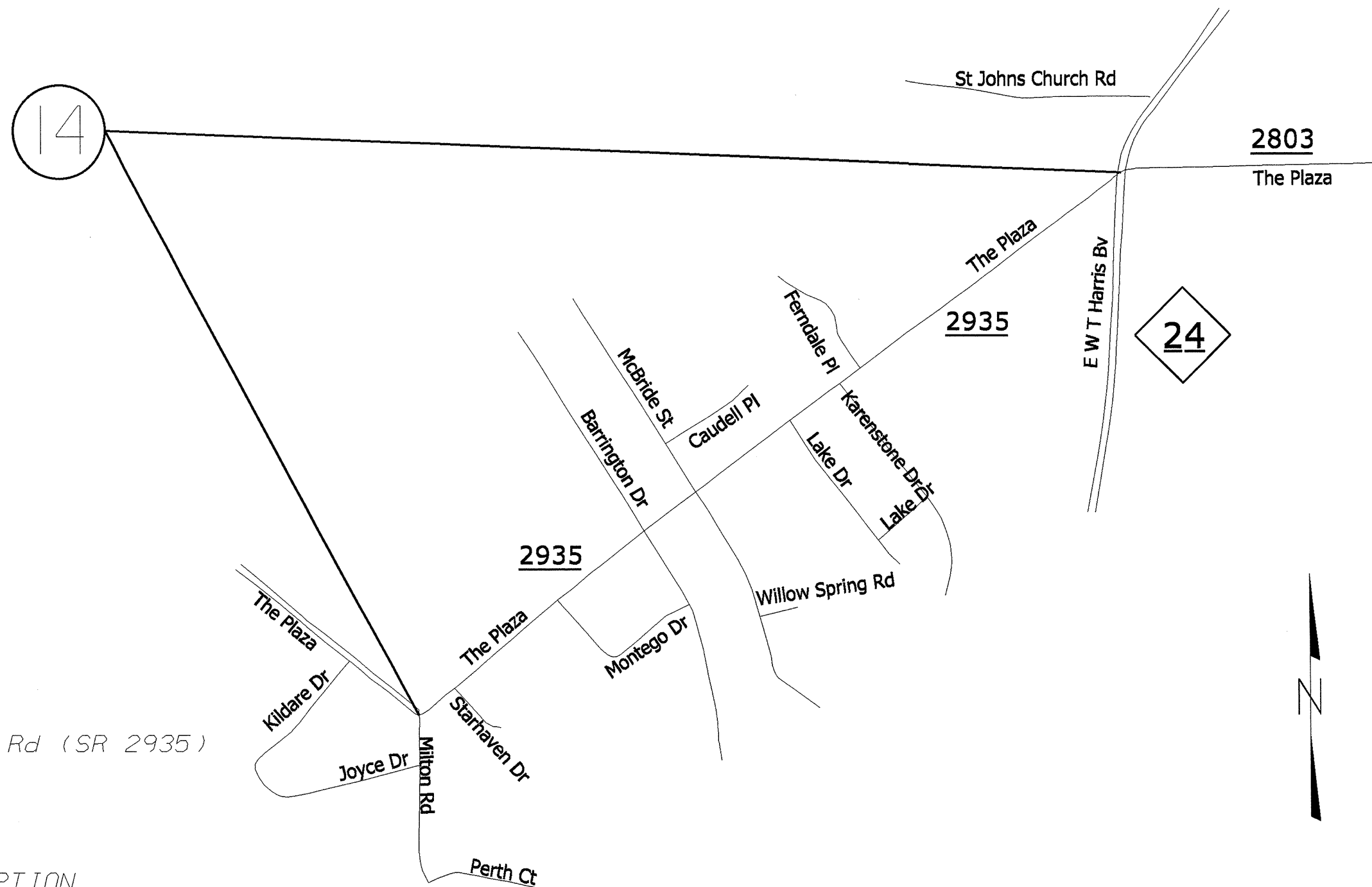
DESCRIPTION

Queen City Rd (SR 1815)

FROM Mulberry Ch Rd to 0.61mi East of Mulberry Ch Rd

2011 MECKLENBURG COUNTY RESURFACING		
SCALE	-NA-	
DATE	05/11	
DWG. BY	RAQ	
DESIGN BY	JSL	
APPROVED		
		REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		14	
F.A. PROJECT NO. 10CR.20601.114...ETC			



MAP
#14 The Plaza Rd (SR 2935)

DESCRIPTION
FROM Harris Blvd (NC 24) to Milton Rd



2012 MECKLENBURG COUNTY
RESURFACING

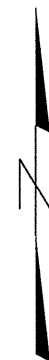
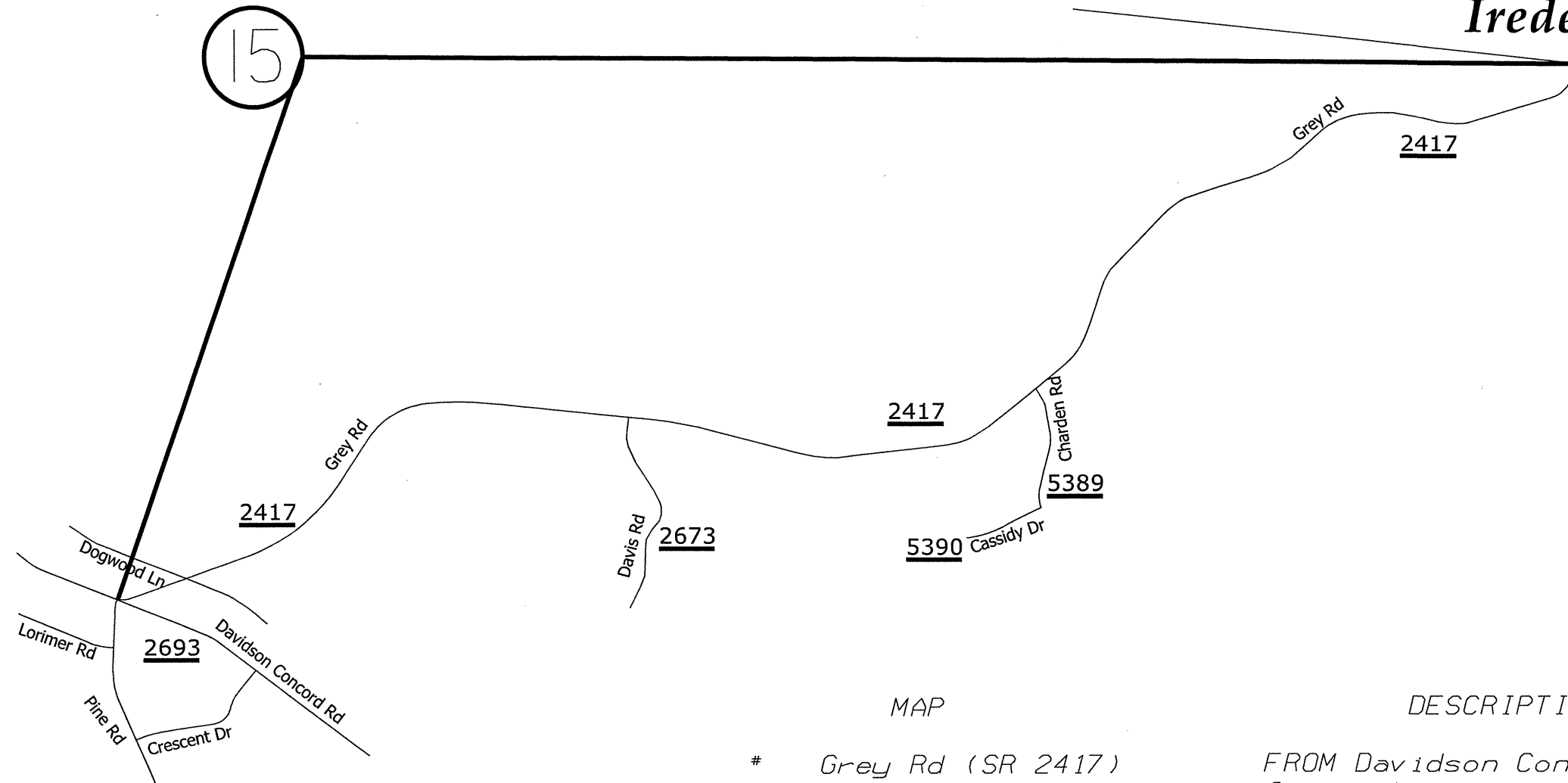
SCALE	-NA-
DATE	05/11
DWG. BY	RAO
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		15	
F.A. PROJECT NO. IOCR.20601.114...ETC			

Iredell County



MAP

Grey Rd (SR 2417)

DESCRIPTION

FROM Davidson Concord Rd to Iredell County Line

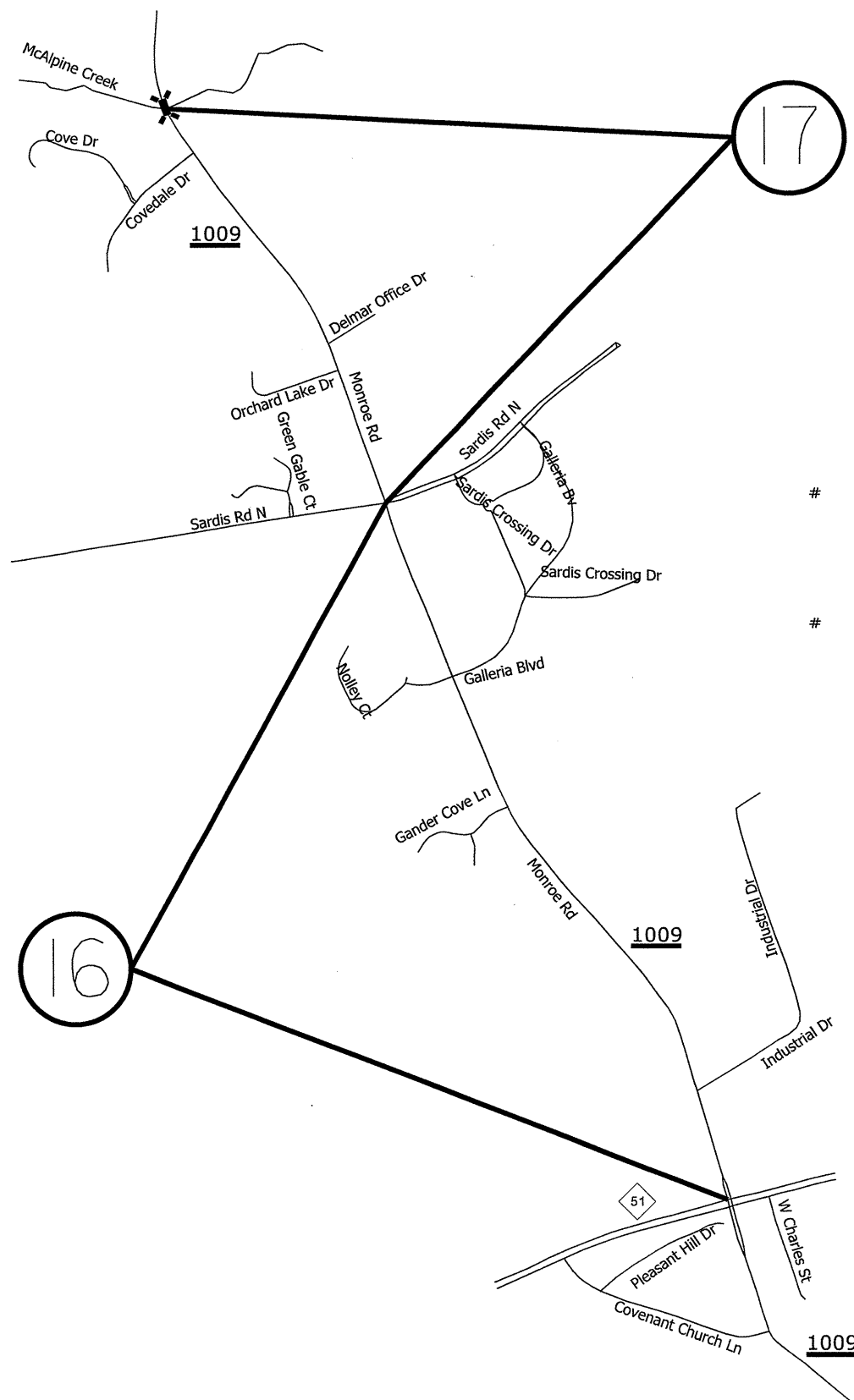
2011 MECKLENBURG COUNTY RESURFACING

SCALE	-NA-
DATE	05/11
DWG. BY	RAQ
DESIGN BY	JSL
APPROVED	



REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		16	
F.A. PROJECT NO. 10CR.20601.114...ETC			



MAP


- # Monroe Rd (SR 1009)
- # Monroe Rd (SR 1009)

DESCRIPTION

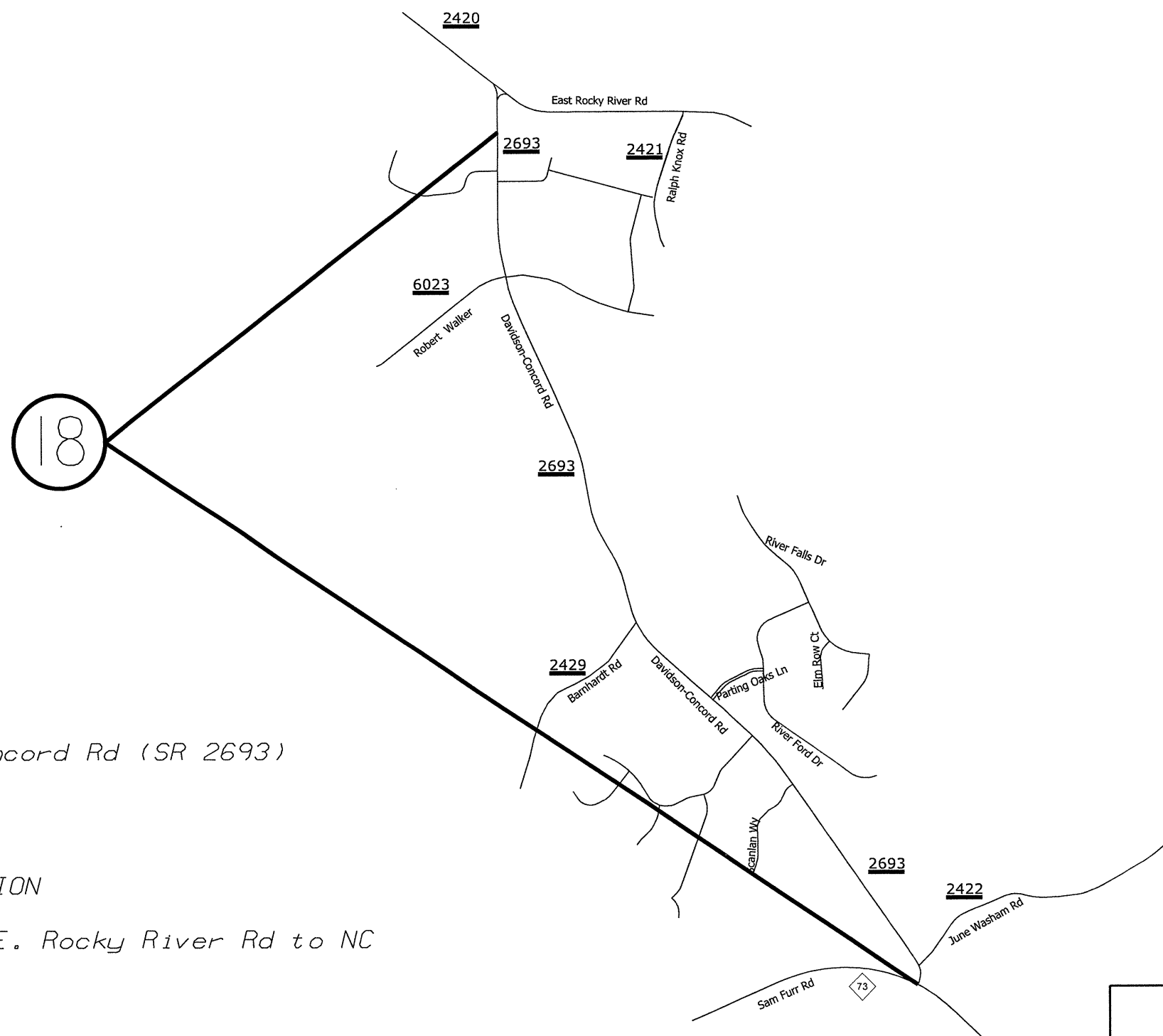
FROM McAlpine Creek Bridge to Sardis Rd North

Sardis Rd North to NC 51



2011 MECKLENBURG COUNTY RESURFACING										
SCALE	-NA-									
DATE	05/11									
DWG. BY	RAO									
DESIGN BY	JSL									
APPROVED		<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS							
REVISIONS										

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		17	
F.A. PROJECT NO. IOCR.2060.II4...ETC			



MAP

Davidson-Concord Rd (SR 2693)

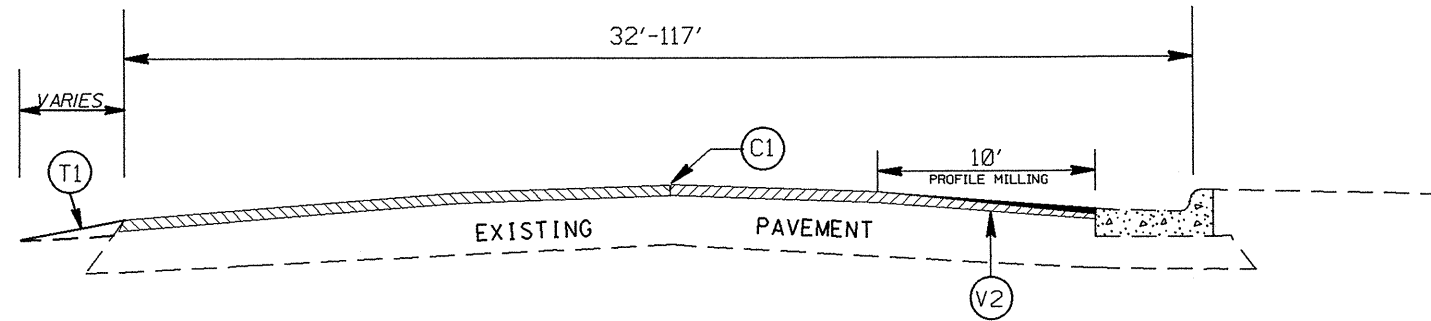
DESCRIPTION

FROM Pvmt Jt at E. Rocky River Rd to NC 73

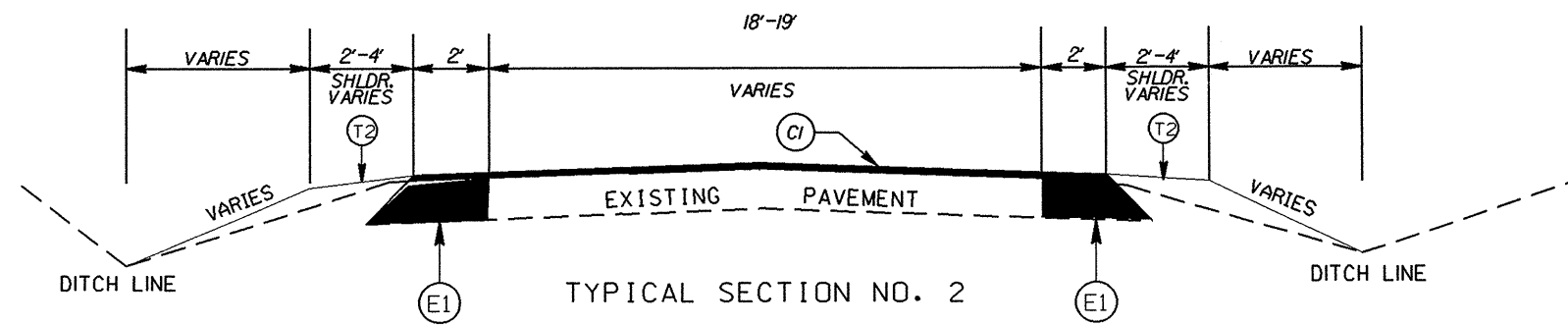
2011 MECKLENBURG COUNTY
RESURFACING

SCALE	-N/A-		REVISIONS
DATE	05/11		
DWG. BY	RAQ		
DESIGN BY	JSL		
APPROVED			

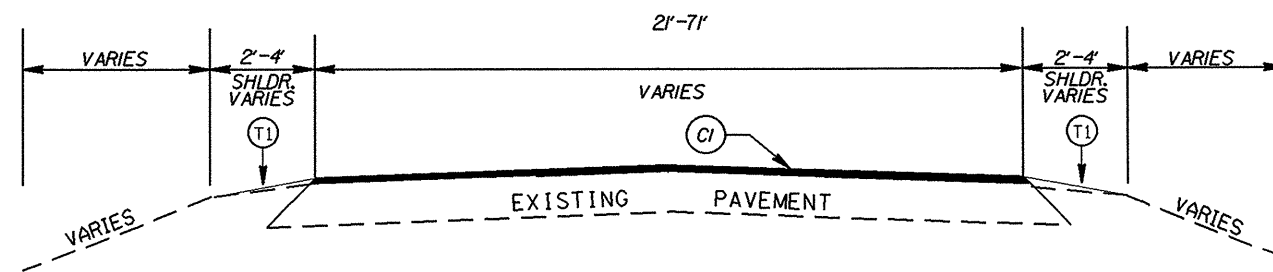
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		18	
F.A. PROJECT NO. 10CR.20601.114...ETC.			



TYPICAL SECTION NO. 3



TYPICAL SECTION NO. 2



TYPICAL SECTION NO. 1

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
T2	SHOULDER CONSTRUCTION. *Shoulder width to be determined in the field.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"

2012 MECKLENBURG COUNTY
RESURFACING

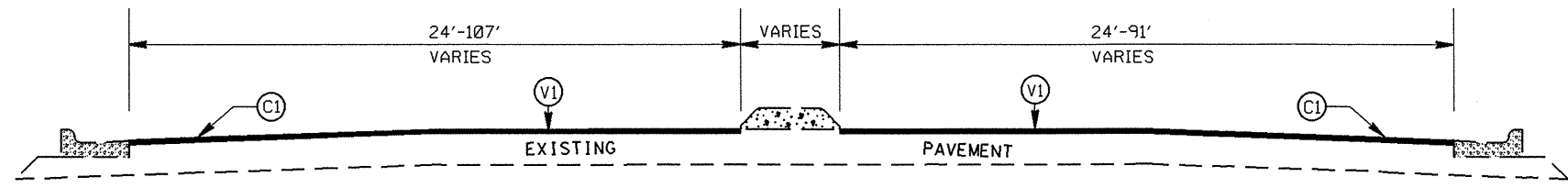
SCALE	-NA-
DATE	01/11
DWG. BY	JSL
DESIGN BY	JSL
APPROVED	LM



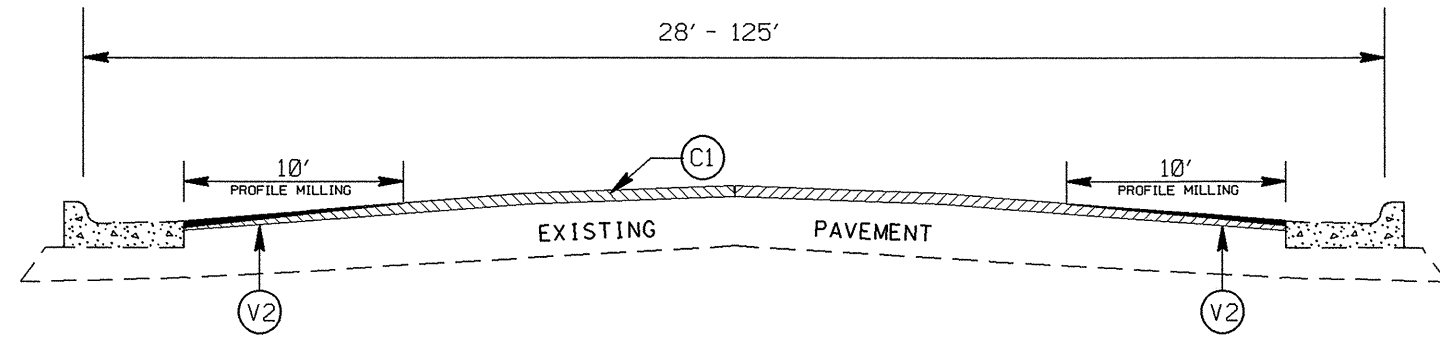
REVISIONS	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		19	
F.A. PROJECT NO. 10CR.20601.114...ETC.			

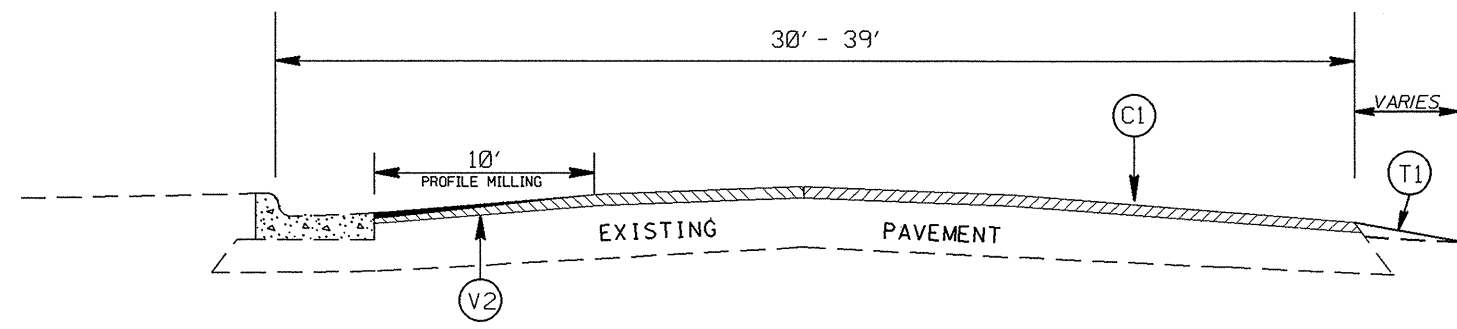
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
T2	SHOULDER CONSTRUCTION.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"



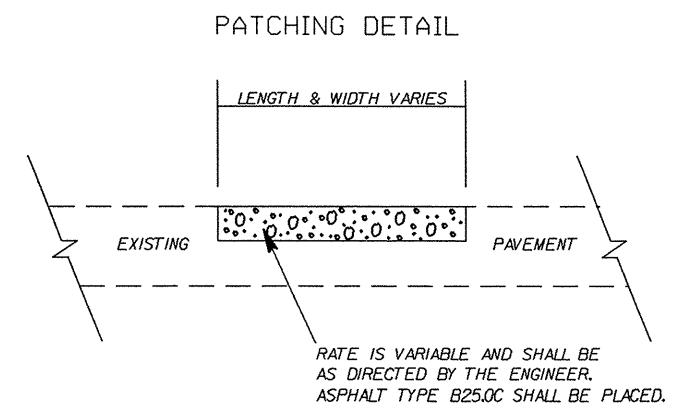
TYPICAL SECTION NO. 6



TYPICAL SECTION NO. 5



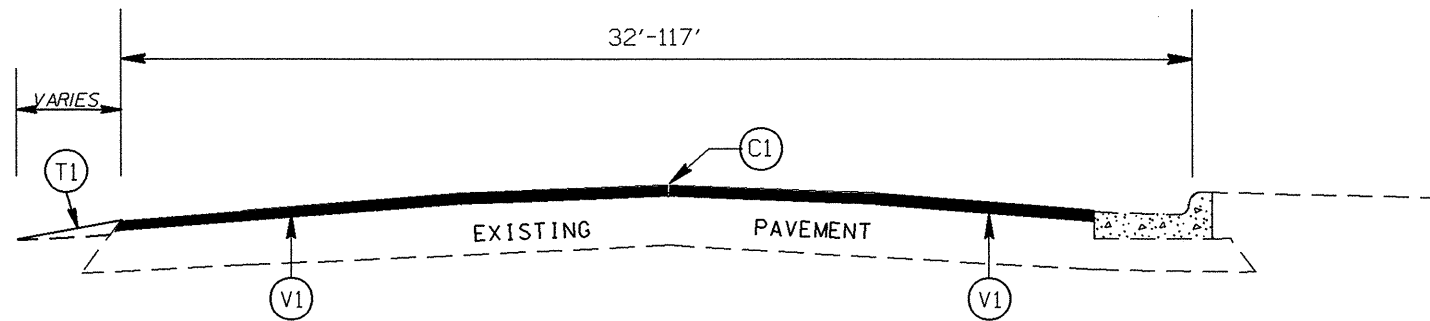
TYPICAL SECTION NO. 4



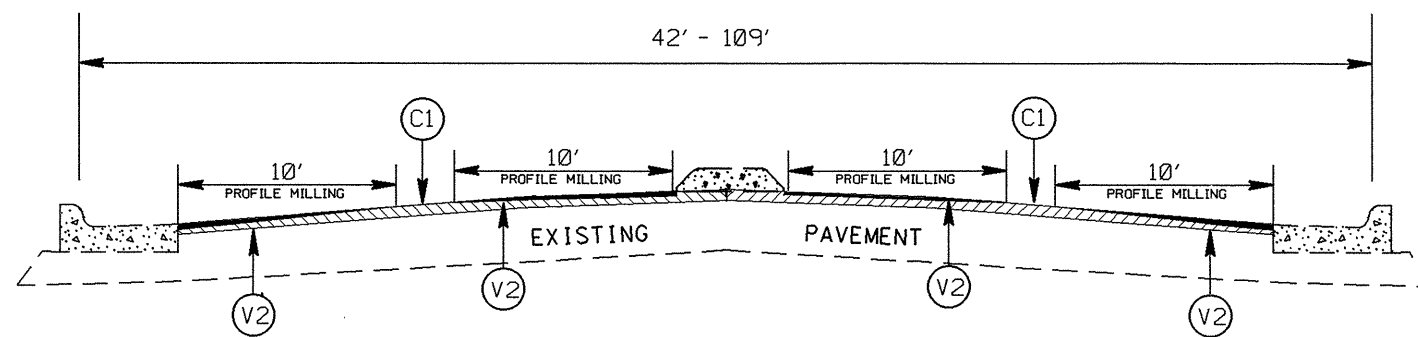
2012 MECKLENBURG COUNTY RESURFACING		
SCALE	-NA-	REVISIONS
DATE	01/11	
DWG. BY	JSL	
DESIGN BY	JSL	
APPROVED	LM	



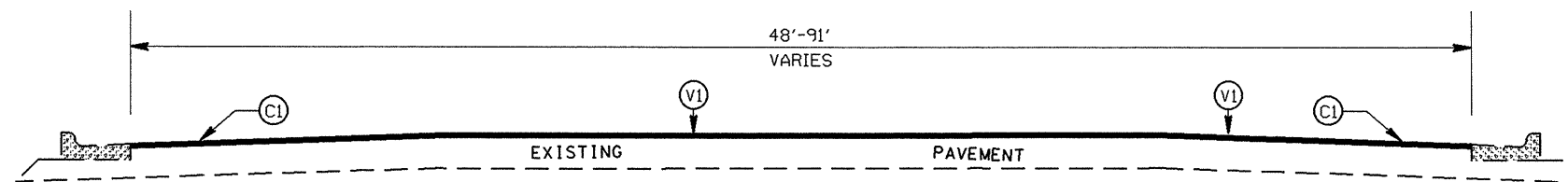
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		20	
F.A. PROJECT NO. 10CR.20601.114...ETC.			



TYPICAL SECTION NO. 9



TYPICAL SECTION NO. 8



TYPICAL SECTION NO. 7

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
T1	SHOULDER RECONSTRUCTION.
T2	SHOULDER CONSTRUCTION.
V1	MILLING 1.5" DEPTH
V2	PROFILE MILLING 0" TO 1.5"

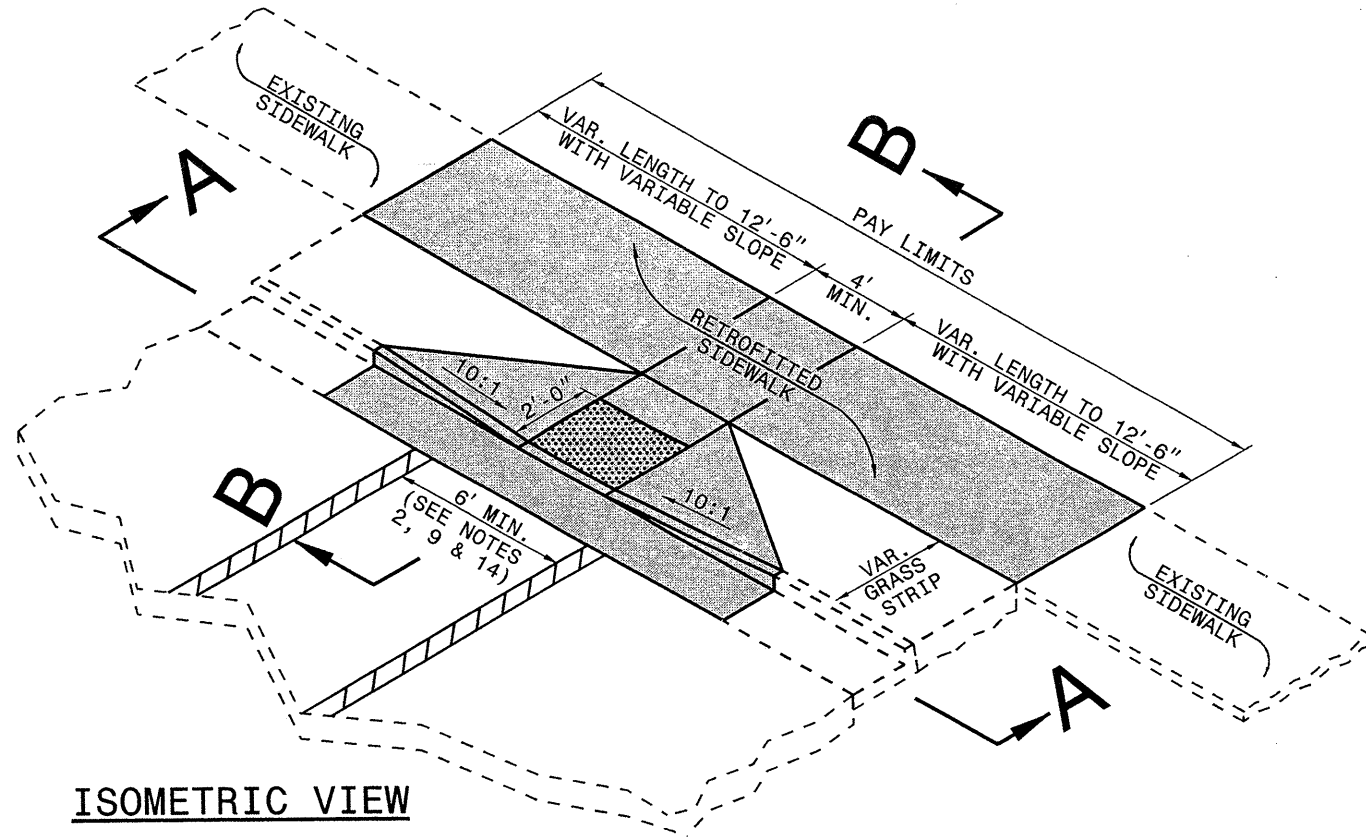
2012 MECKLENBURG COUNTY
RESURFACING

SCALE	-NA-		REVISIONS
DATE	01/11		
DWG. BY	JSL		
DESIGN BY	JSL		
APPROVED	LM		

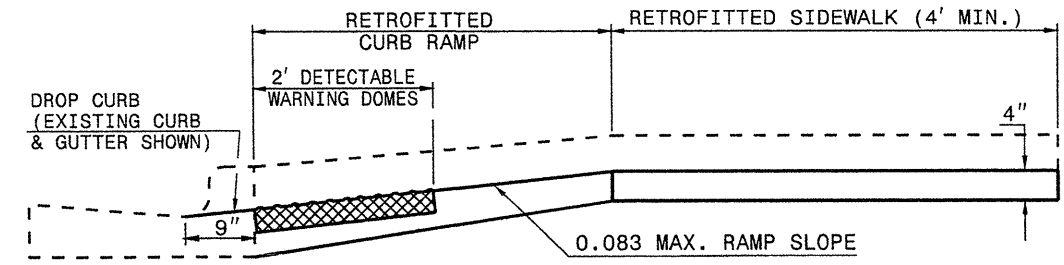
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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

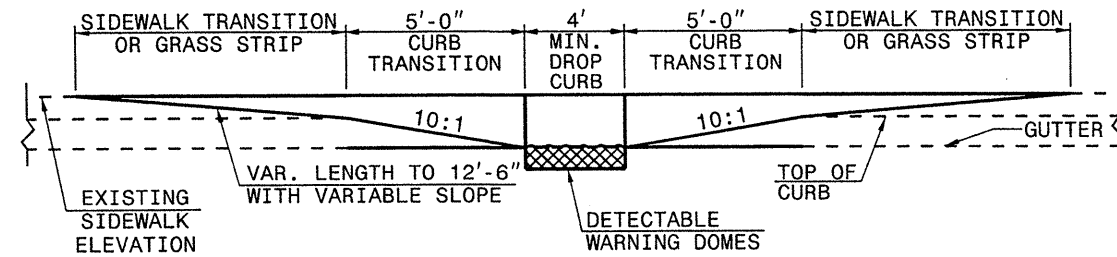
CURB RAMP AND EXISTING SIDEWALK WITH GRASS STRIP



ISOMETRIC VIEW

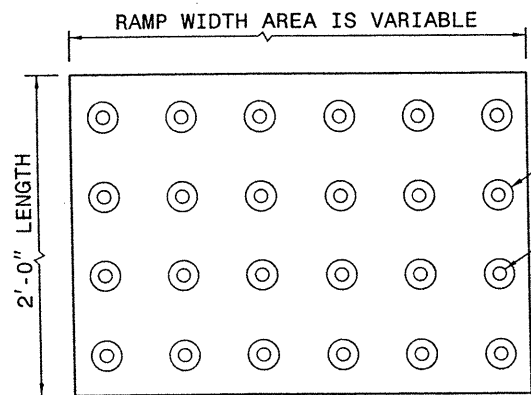


SECTION B-B

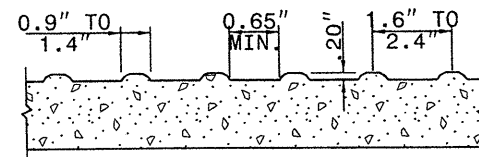


SECTION A-A

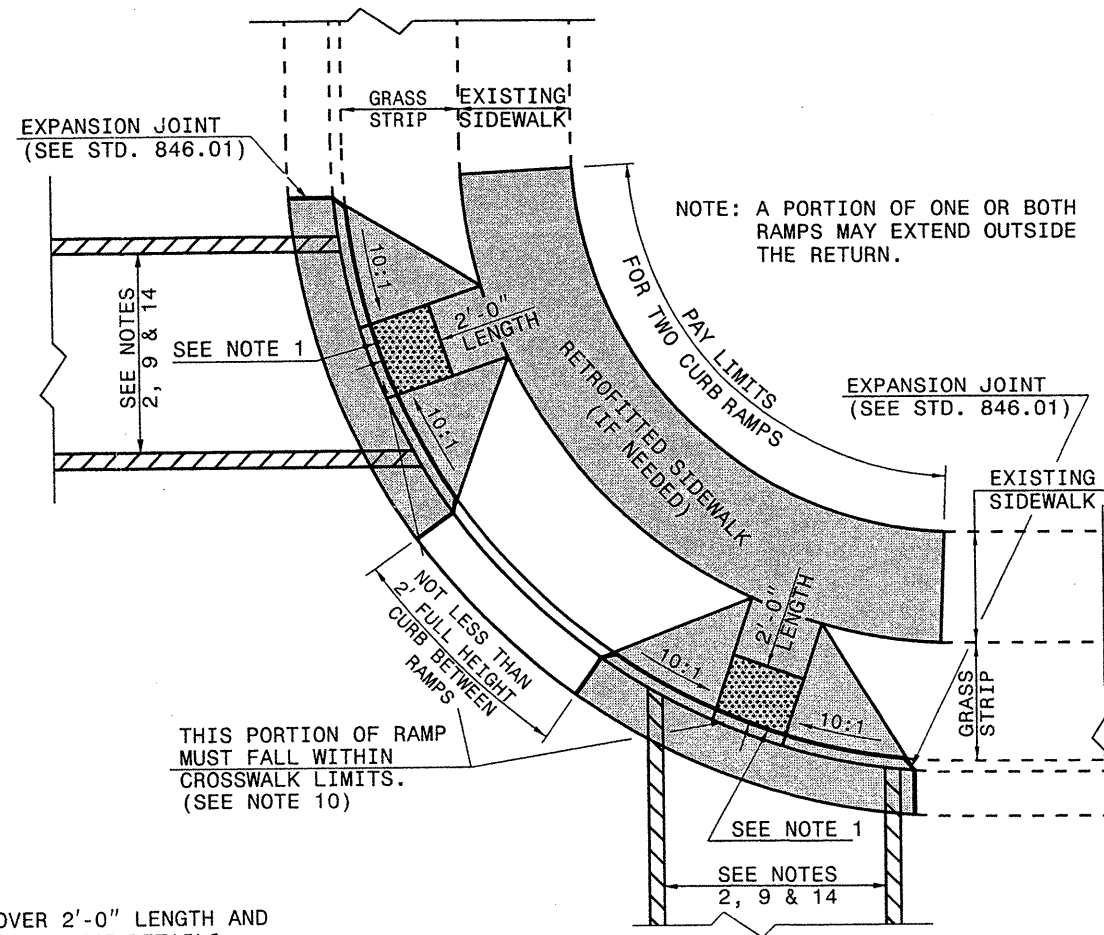
PAY LIMITS OF RETROFIT CURB RAMP



BASE DIAMETER
0.90"R TO 1.40"R
TOP DIAMETER OF NO LESS
THAN 50% TO NO MORE
THAN 65% OF THE BASE
DIAMETER



DETECTABLE WARNING DOMES



PLAN VIEW

DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)

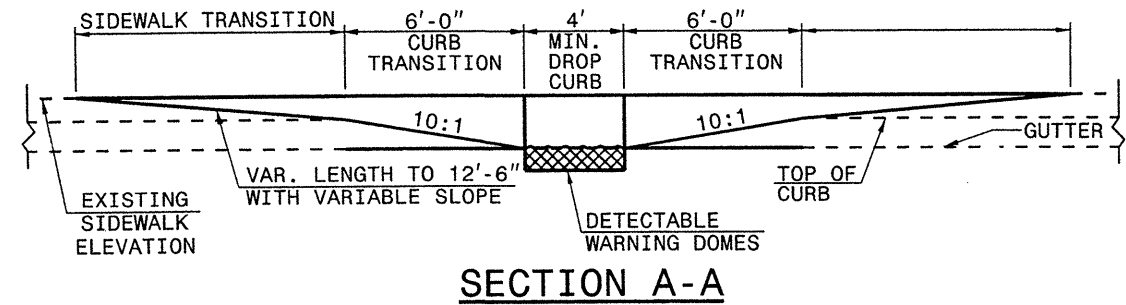
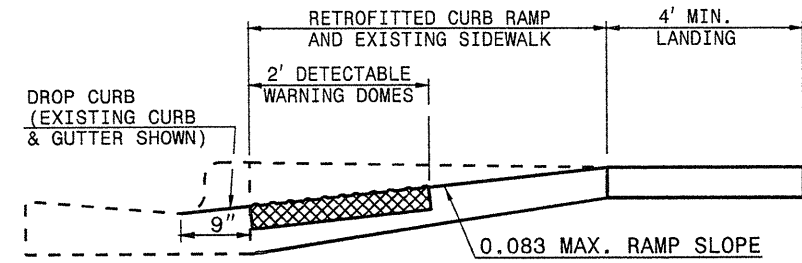
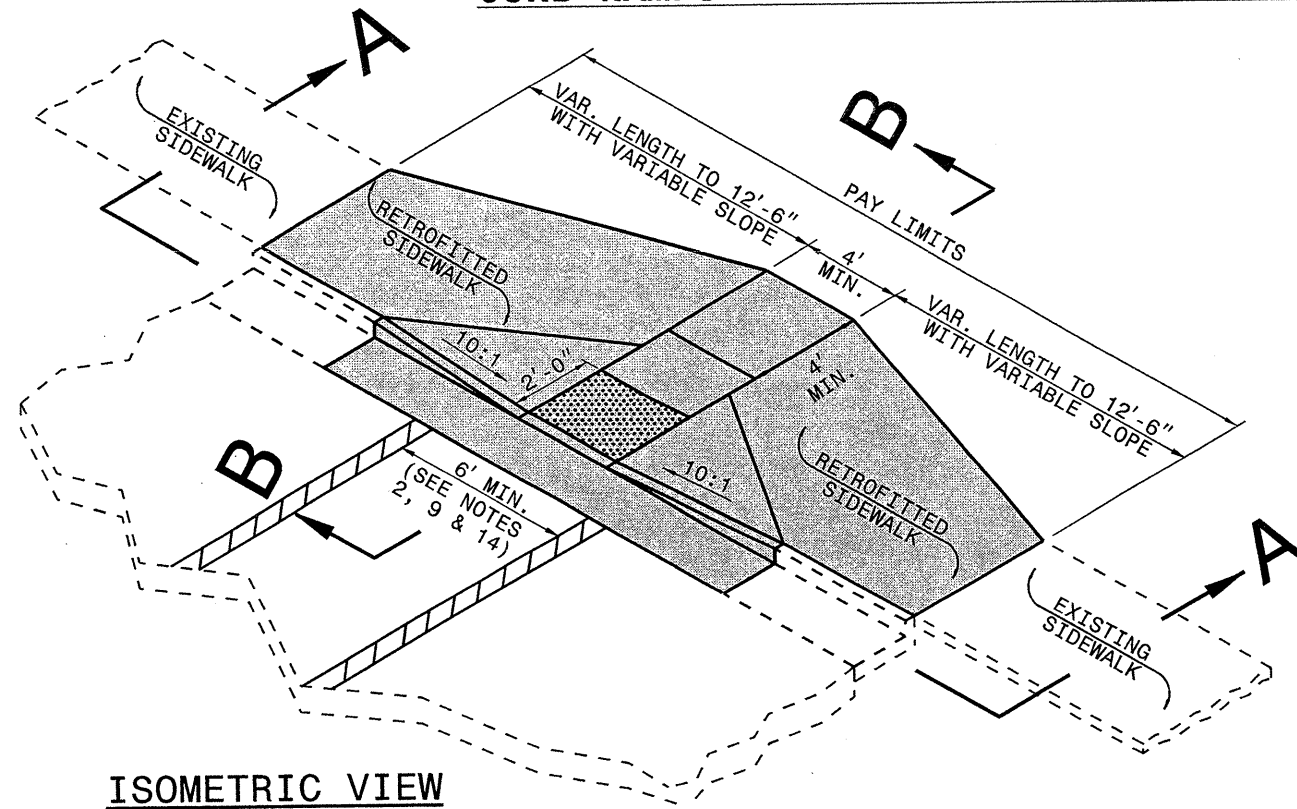
- NOTES:
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.

ENGLISH DETAIL DRAWING FOR
CURB RAMP
EXISTING CURB AND GUTTER

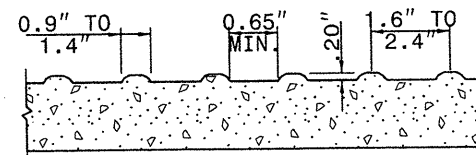
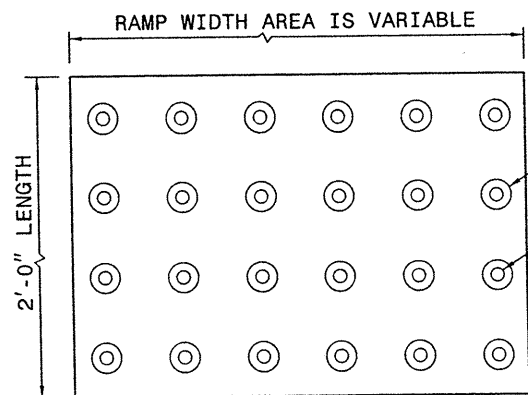
ENGLISH DETAIL DRAWING FOR
CURB RAMP
EXISTING CURB AND GUTTER

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

CURB RAMPS AND EXISTING SIDEWALK ADJACENT TO CURB

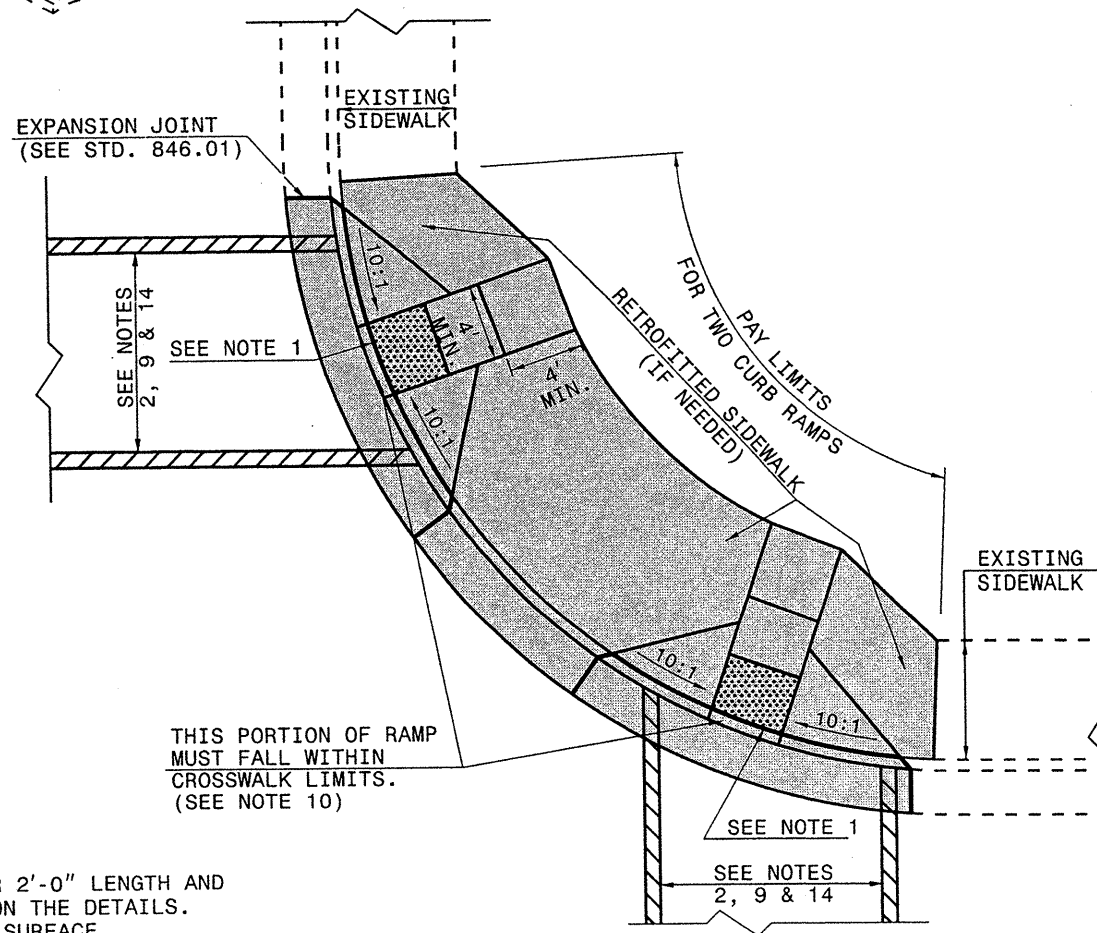


PAY LIMITS OF CURB RAMP



DETECTABLE WARNING DOMES

- NOTES:
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



PLAN VIEW

DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)

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

ENGLISH DETAIL DRAWING FOR
CURB RAMP
EXISTING CURB AND GUTTER

ENGLISH DETAIL DRAWING FOR

CURB RAMP

EXISTING CURB AND GUTTER

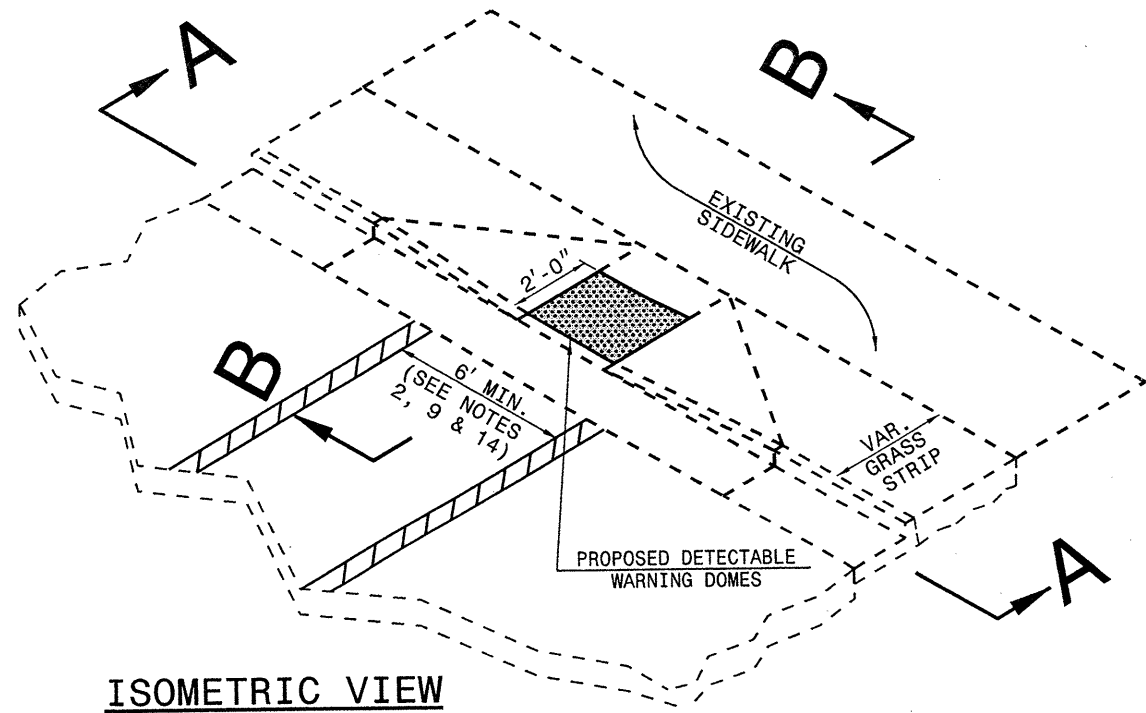
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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

RETROFITTING DETECTABLE WARNING DOMES ONTO EXISTING CURB RAMP

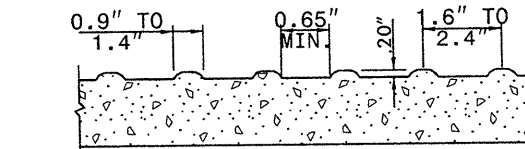
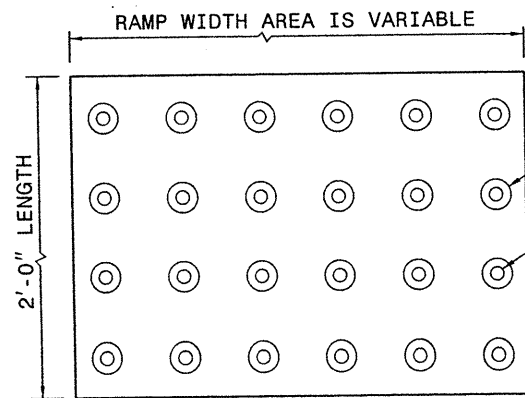
ENGLISH DETAIL DRAWING FOR
CURB RAMP
EXISTING CURB AND GUTTER

ENGLISH DETAIL DRAWING FOR
CURB RAMP
EXISTING CURB AND GUTTER



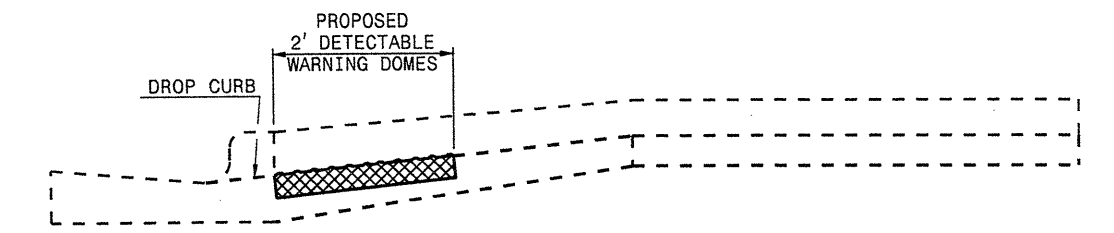
ISOMETRIC VIEW

PAY LIMITS OF RETROFIT CURB RAMP

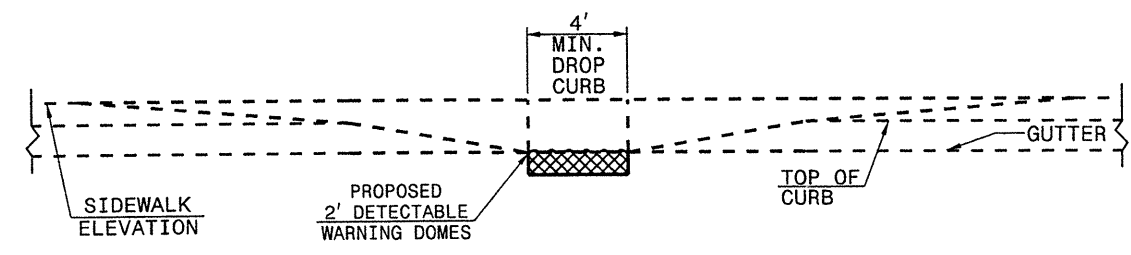


DETECTABLE WARNING DOMES

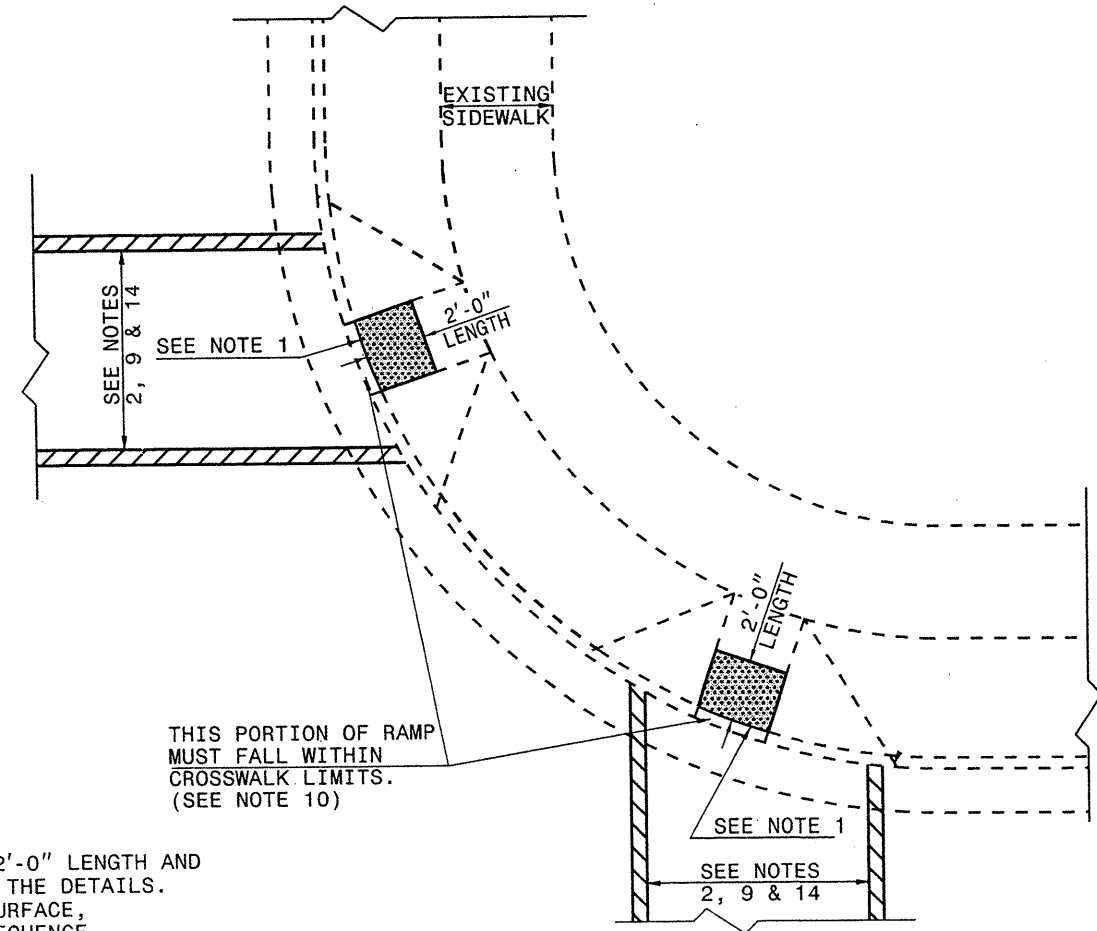
- NOTES:
1. PLACE DETECTABLE WARNING DOMES TO COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 2. OBTAIN VISIBLE CONTRAST WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



SECTION B-B



SECTION A-A



PLAN VIEW

DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)

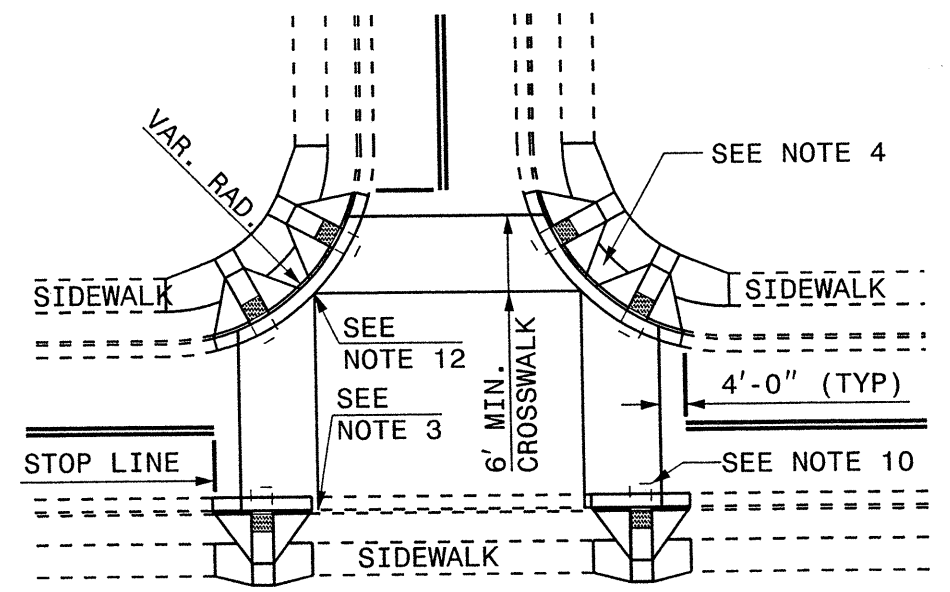
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR CURB RAMP EXISTING CURB AND GUTTER

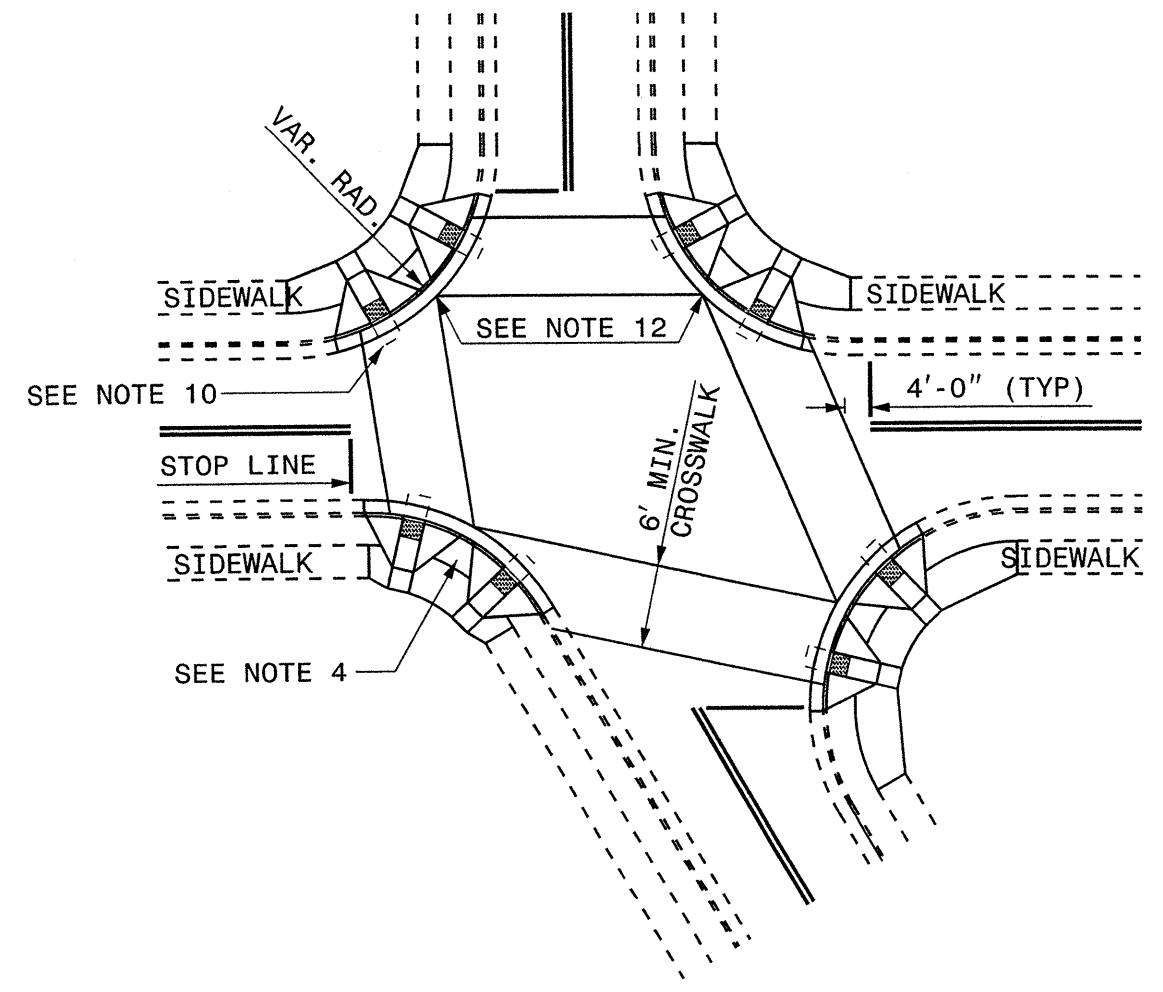
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR CURB RAMP EXISTING CURB AND GUTTER

CURB RAMPS AND EXISTING SIDEWALK

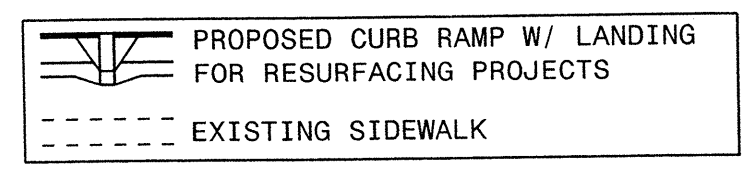


DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES FOR TEE INTERSECTIONS



DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES

RESURFACING PROJECTS



ALLOWABLE LOCATIONS DUAL RAMP RADII.....ANY

CURB RAMP AND EXISTING SIDEWALK

NOTES:

1. CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.
2. LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN IN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE SIGNING AND DELINEATION UNIT OR LOCATE AS DIRECTED BY THE ENGINEER.
3. COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4'x4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.
4. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL LANE IS 4' MINIMUM.
5. REFER TO THE PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.
6. TERMINATE PARKING A MINIMUM OF 20' BACK OF A PEDESTRIAN CROSSWALK.
7. CONSTRUCT CURB RAMPS A MINIMUM OF 4' WIDE.
8. CONSTRUCT THE RUNNING SLOPE OF THE RAMP 8.33% MAXIMUM.
9. ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% MAXIMUM.
10. CONSTRUCT THE SIDE FLARE SLOPE A MAXIMUM OF 10% MEASURED ALONG THE CURB LINE.
11. CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 5% AND MAINTAIN A SMOOTH TRANSITION.
12. CONSTRUCT LANDINGS FOR SIDEWALK A MINIMUM OF 4'x4' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT LANDINGS FOR MEDIAN ISLANDS A MINIMUM OF 5'x5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
13. TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6' WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGH THE ISLAND.
14. SMALL CHANNELIZATION ISLANDS THAT CAN NOT PROVIDE A 5'x5' LANDING AT THE TOP OF A RAMPS, WILL BE CUT THROUGH LEVEL WITH THE SURFACE STREET.
15. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP. THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
16. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE CURB RAMP JOINS THE CURB AS SHOWN IN ROADWAY STANDARD DRAWING 848.01
17. PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.
18. CURB RAMPS THROUGH MEDIAN ISLANDS, SINGLE RAMPS AT DUAL CROSSWALKS OR LIMITED R/W SITUATIONS, WILL BE HANDLED BY SPECIAL DETAILS. CONTACT THE CONTRACT STANDARDS AND DEVELOPMENT UNIT FOR THE DETAILS OR FOR A SPECIAL DESIGN.

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

ENGLISH DETAIL DRAWING FOR
CURB RAMP
EXISTING CURB AND GUTTER

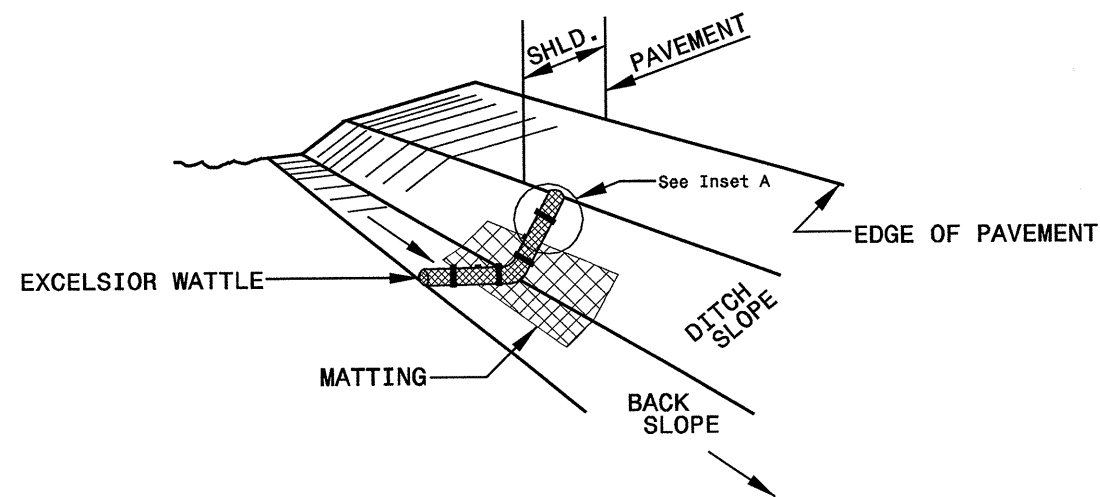
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
CURB RAMP
EXISTING CURB AND GUTTER

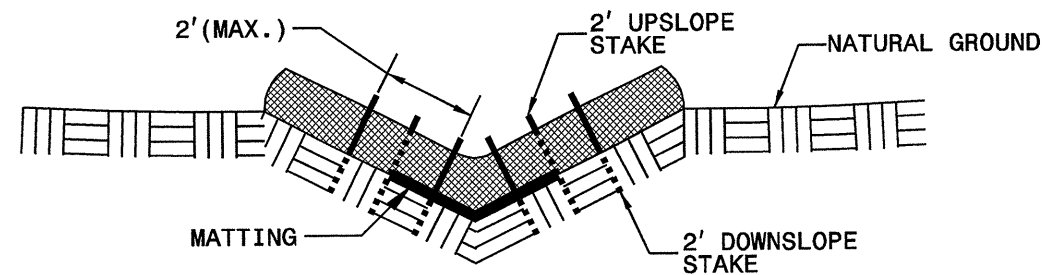
10CR.20601.114, etc.

PROJECT REFERENCE NO. X-XXXX	SHEET NO. EC-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

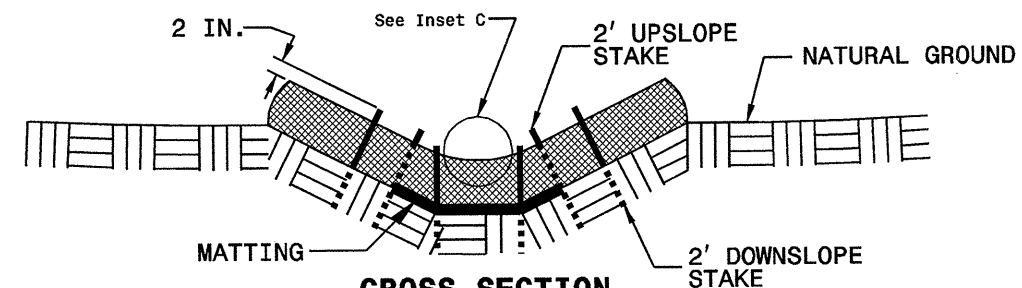
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

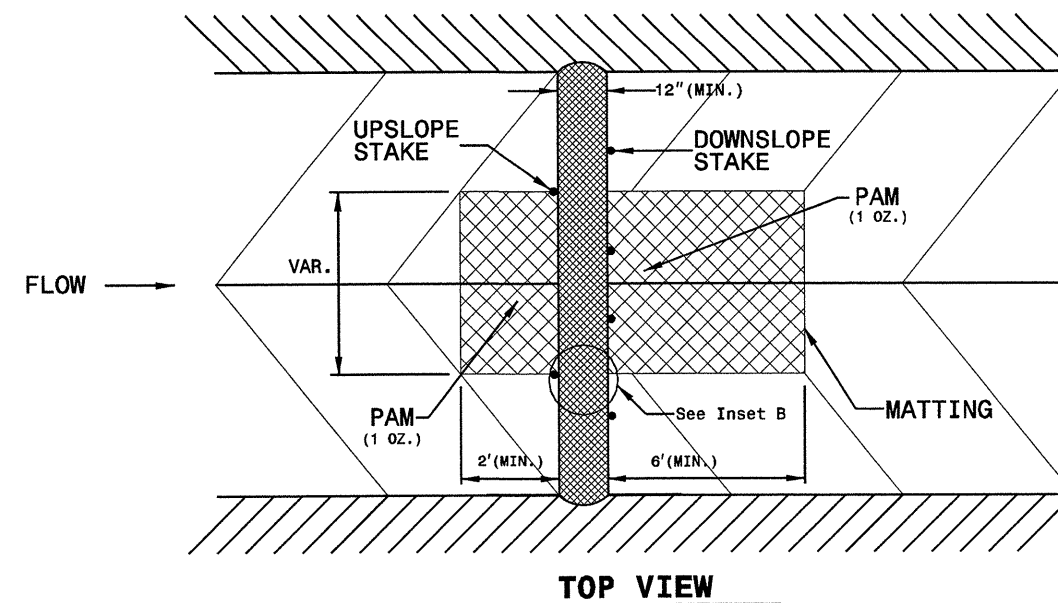
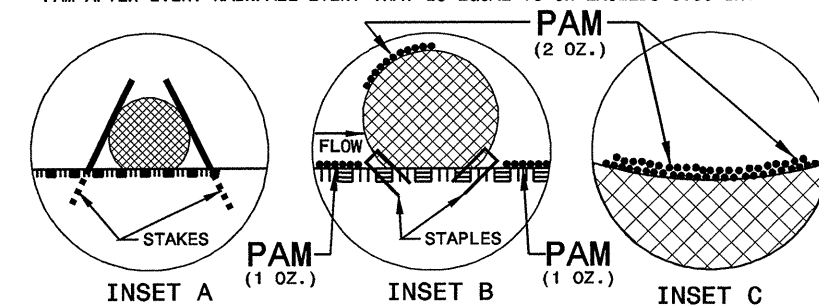
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

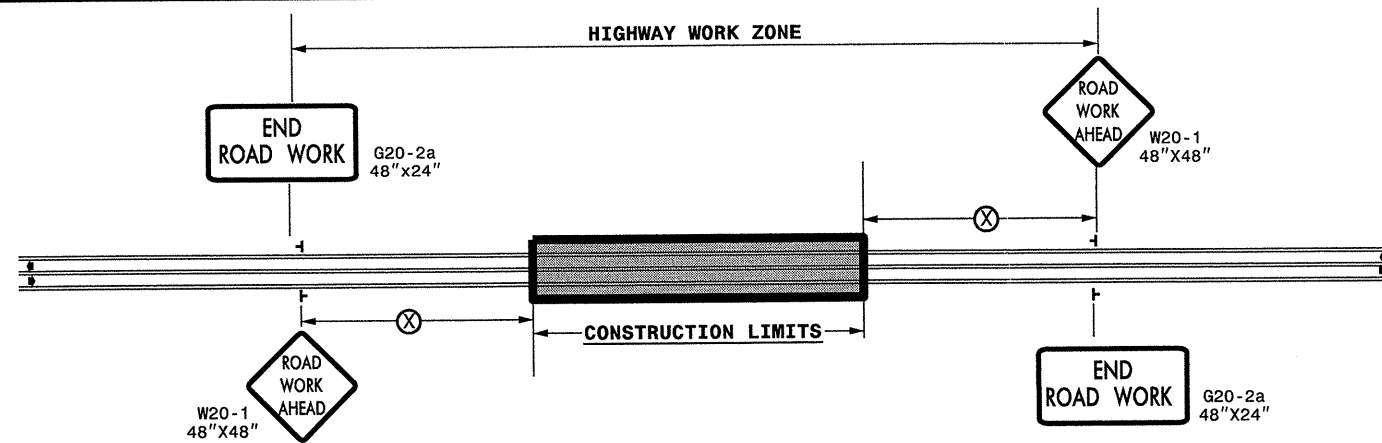


TOP VIEW

06-JUL-2011 12:48
 \DOT\BFSROOT\01\GROUPS-WZTCC\TMUN\WZTC\Resur-facing\2011\Western\2011\DI\10\C202802A-R\OCR\2060114x18-Mecklenburg-2way_Undiv_&Urban_Frways_stationar
 sngreen AT TE244733

PROJ. REFERENCE NO.	SHEET NO.
10CR.20601.114- 10CR.20601.131	TCP-1

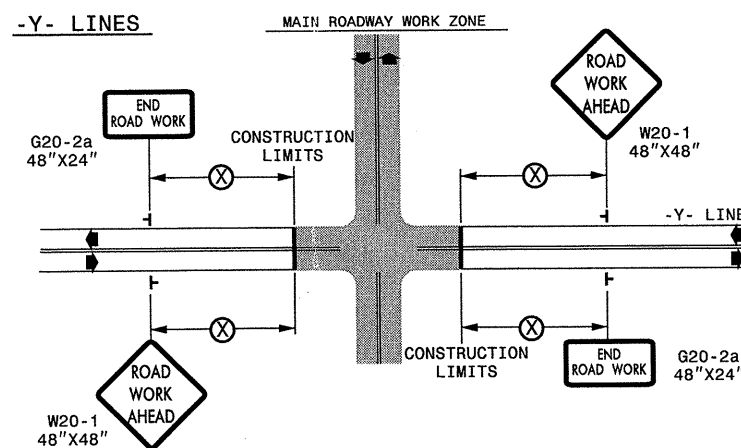
TWO-WAY UNDIVIDED ** (L-LINES)



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.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.
- ** 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

- ┆ STATIONARY SIGN
- ◀ DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 1

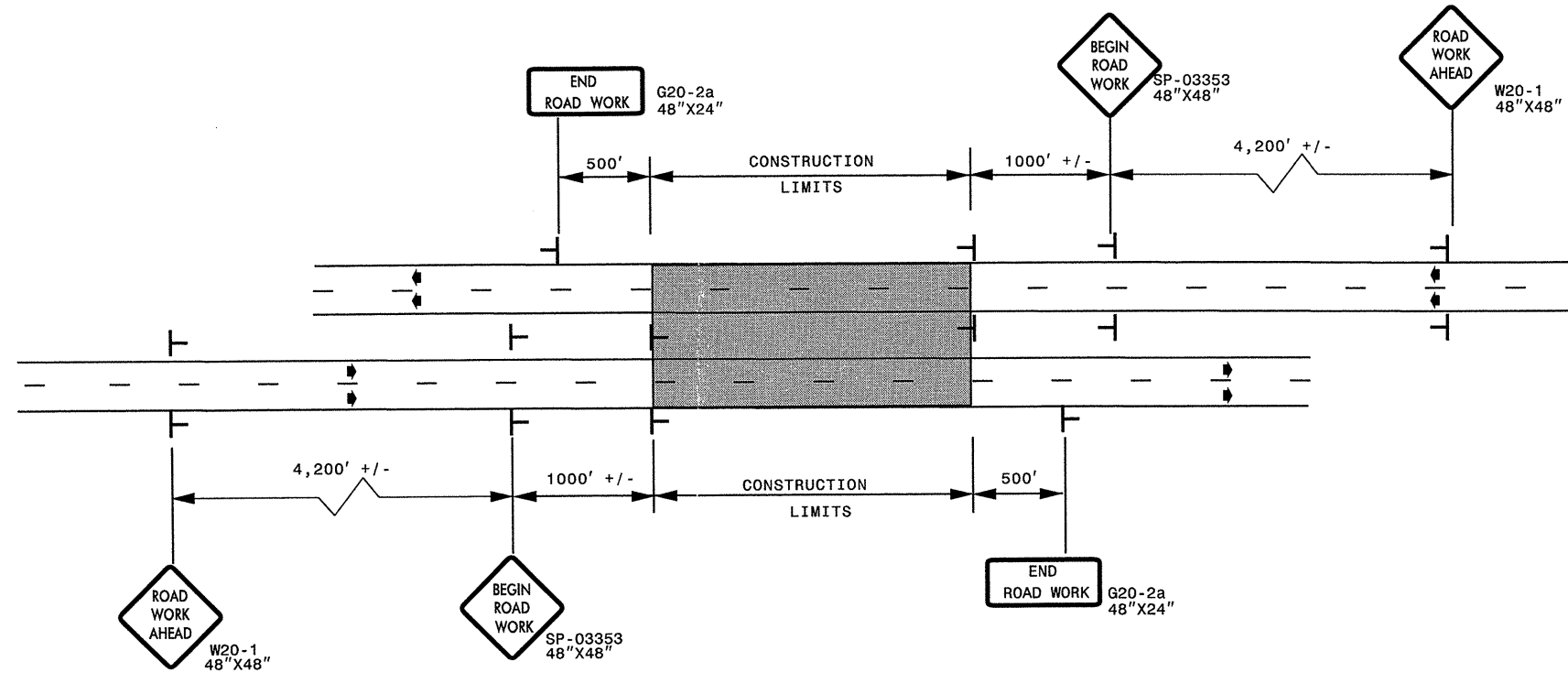
**DETAIL DRAWING FOR
 TWO-WAY UNDIVIDED
 WORK ZONE WARNING SIGNS**

APPROVED: _____	DATE: _____	DETAIL DRAWING FOR TWO-WAY UNDIVIDED AND URBAN FREEWAYS ADVANCED WORK ZONE WARNING SIGNS	
		DATE: _____	DESIGN BY: _____
DESIGN BY: _____	REVIEWED BY: _____	10-98 03/04	01/01 11/04
CADD FILE			

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

PROJ. REFERENCE NO.	SHEET NO.
10CR.20601.114- 10CR.20601.131	TCP - 2

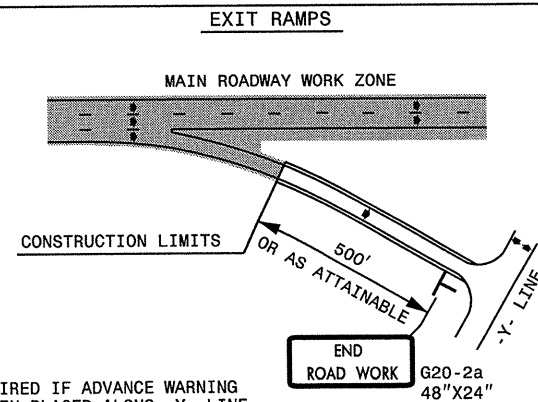
DETAIL A



LEGEND	
	STATIONARY SIGN
→	DIRECTION OF TRAFFIC FLOW

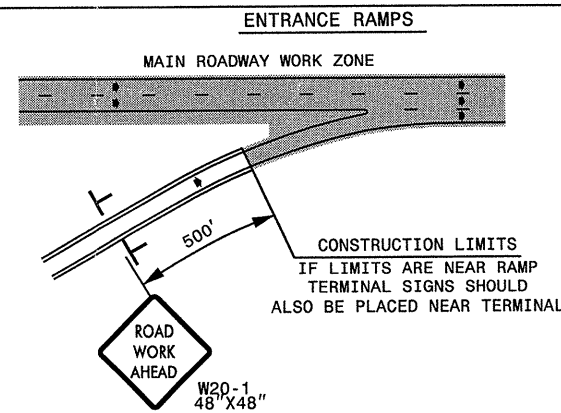
* USE THE "\$250 SPEEDING PENALTY" SIGN, SPEED LIMIT SIGN, AND ORANGE PANEL; ONLY WHEN A "\$250 SPEEDING PENALTY" ORDINANCE HAS BEEN ISSUED BY THE REGIONAL TRAFFIC ENGINEER.

DETAIL B

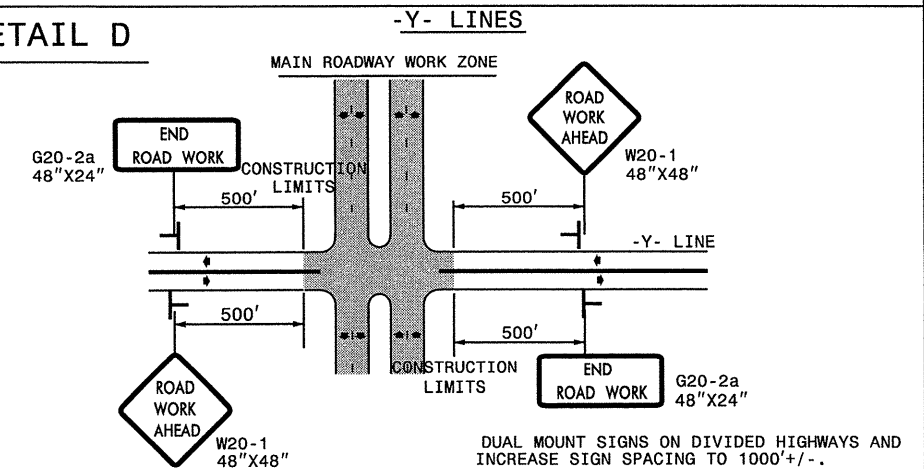


NOTE: SIGN NOT REQUIRED IF ADVANCE WARNING SIGNS HAVE BEEN PLACED ALONG -Y- LINE THAT RAMP INTERSECTS. IF CONSTRUCTION LIMITS ARE AT END OF RAMP, PLACE SIGN AT END OF RAMP.

DETAIL C



DETAIL D



GENERAL NOTES

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.

APPROVED: _____ DATE: _____ <div style="text-align: center; border: 1px solid black; width: 50px; height: 50px; margin: 0 auto;"> SEAL </div>	ADVANCED WORK ZONE WARNING SIGNS FOR FREEWAYS (4 LANES OR GREATER)						
SCALE: NONE DATE: 8/03 DWG. BY: JI DESIGN BY: JI REVIEWED BY:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">REVISIONS</th> </tr> <tr> <td style="width: 10px; text-align: center;">03/04</td> <td style="width: 10px;"></td> </tr> <tr> <td style="width: 10px;"></td> <td style="width: 10px;"></td> </tr> </table>	REVISIONS		03/04			
REVISIONS							
03/04							

06-JUL-2011 12:49 \\DOT\OFFSHOOTING\GROUPS-WZ\TCCC\TMU\WZTC\Resur\Facing\2011\Resur\Facing\2011\Western\2011\DIV10\C202802A-R-10CR.20601.114\18-Mecklenburg-freeways-4lanes-or-greater-stationary-sign AT 12:44:13