

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO.	SHEET NO.
B-4060	TCP-1

**PLAN FOR PROPOSED  
TRAFFIC CONTROL, MARKING & DELINEATION  
CATAWBA COUNTY**

B-4060

**ROADWAY STANDARD DRAWINGS**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"- PROJECT SERVICES UNIT-N.C. DEPARTMENT OF TRANSPORTATION-RALEIGH, N.C., DATED JULY 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.03	TEMPORARY ROAD CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1261.01	GUARDRAIL & BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL & BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

**INDEX OF SHEETS**

SHEET NO.	TITLE
TCP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, FINAL PAVEMENT MARKING SCHEDULE AND INDEX OF SHEETS
TCP-2	PROJECT NOTES AND PHASING
TCP-3	DETOUR ROUTE AND TYPE III BARRICADE PLACEMENT
TCP-4	DETOUR ROUTE
TCP-5	DETOUR SIGN DESIGN

**PAVEMENT MARKING SCHEDULE**

SYMBOL	DESCRIPTION	PAVEMENT MARKINGS	PAY ITEM QUANTITY BREAKDOWN	TOTAL QUANTITY
PA	WHITE EDGELINE (2X)	PAINT (4")	3600 LF	
PI	YELLOW DOUBLE CENTER (2X)	PAINT (4")	3600 LF	
			TOTAL:	7200 LF

**NOTE:** FOR EACH PAINT PAVEMENT MARKING ITEM, 1X IMPLIES A SINGLE APPLICATION, 2X IMPLIES TWO APPLICATIONS AND 3X IMPLIES THREE APPLICATIONS.

**LEGEND**

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
  - NORTH ARROW
  - PROPOSED PVMT. EXIST. PVMT.
  - WORK AREA
  - REMOVAL OF EXISTING PAVEMENT
- TRAFFIC CONTROL DEVICES**
- TYPE I BARRICADE
  - TYPE II BARRICADE
  - TYPE III BARRICADE
  - CONE
  - DRUM SKINNY DRUM
  - FLASHING ARROW PANEL (TYPE C)
  - STATIONARY SIGN
  - PORTABLE SIGN
  - STATIONARY OR PORTABLE SIGN
  - WARNING FLAGS
  - CRASH CUSHION
  - CHANGEABLE MESSAGE SIGN
  - TRUCK MOUNTED IMPACT ATTENUATOR (TMIA)
  - POLICE
  - FLAGGER
- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
  - YELLOW/YELLOW PAVEMENT MARKER
  - CRYSTAL/RED PAVEMENT MARKER
  - PAVEMENT MARKING SYMBOLS

TIP PROJECT:

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ajj\ajj AT WZTC224239

APPROVED: <i>Joseph Ishak</i> DATE: <i>April 20, 2006</i>	PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
SEAL 	J. STUART BOURNE, P.E. TRAFFIC CONTROL ENGINEER
	JOSEPH ISHAK, P.E. TRAFFIC CONTROL PROJECT ENGINEER
	TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	ALLA LYUDMIRSKAYA TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

## PROJECT NOTES

ADAPT THE TRAFFIC CONTROL PLANS, WHEN DIRECTED BY THE ENGINEER, TO MEET FIELD CONDITIONS TO PROVIDE SAFE AND EFFICIENT TRAFFIC MOVEMENT. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE, OR RESULT IN DUPLICATE, OR UNDESIRE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

### TRAFFIC PATTERN ALTERATIONS

- A) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

### SIGNING

- B) STATE FORCES WILL BE RESPONSIBLE FOR PERMANENT SIGNING.  
 C) PROVIDE DETOUR SIGNING WITHIN AND/OR OFF THE PROJECT LIMITS.  
 D) COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND/OR OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.  
 E) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

### TRAFFIC CONTROL DEVICES

- F) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. PLACE TYPE III BARRICADES, WITH "ROAD CLOSED TO THRU TRAFFIC" SIGN R11-4 AND "DETOUR" SIGN M4-10 ATTACHED. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.

### PAVEMENT MARKINGS AND MARKERS

- G) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
SR 1486 (LEE CLINE RD.)	PAINT	NONE

- H) PLACE AT LEAST TWO APPLICATIONS OF PAINT PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE ON NEW ASPHALT PAVEMENT. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.  
 I) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

## PHASING

NOTE: MAINTAIN ACCESS TO ALL RESIDENCES AT ALL TIMES.

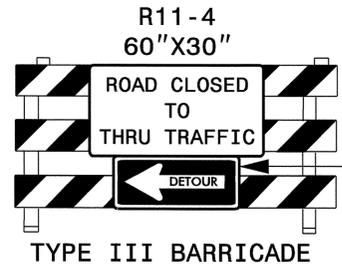
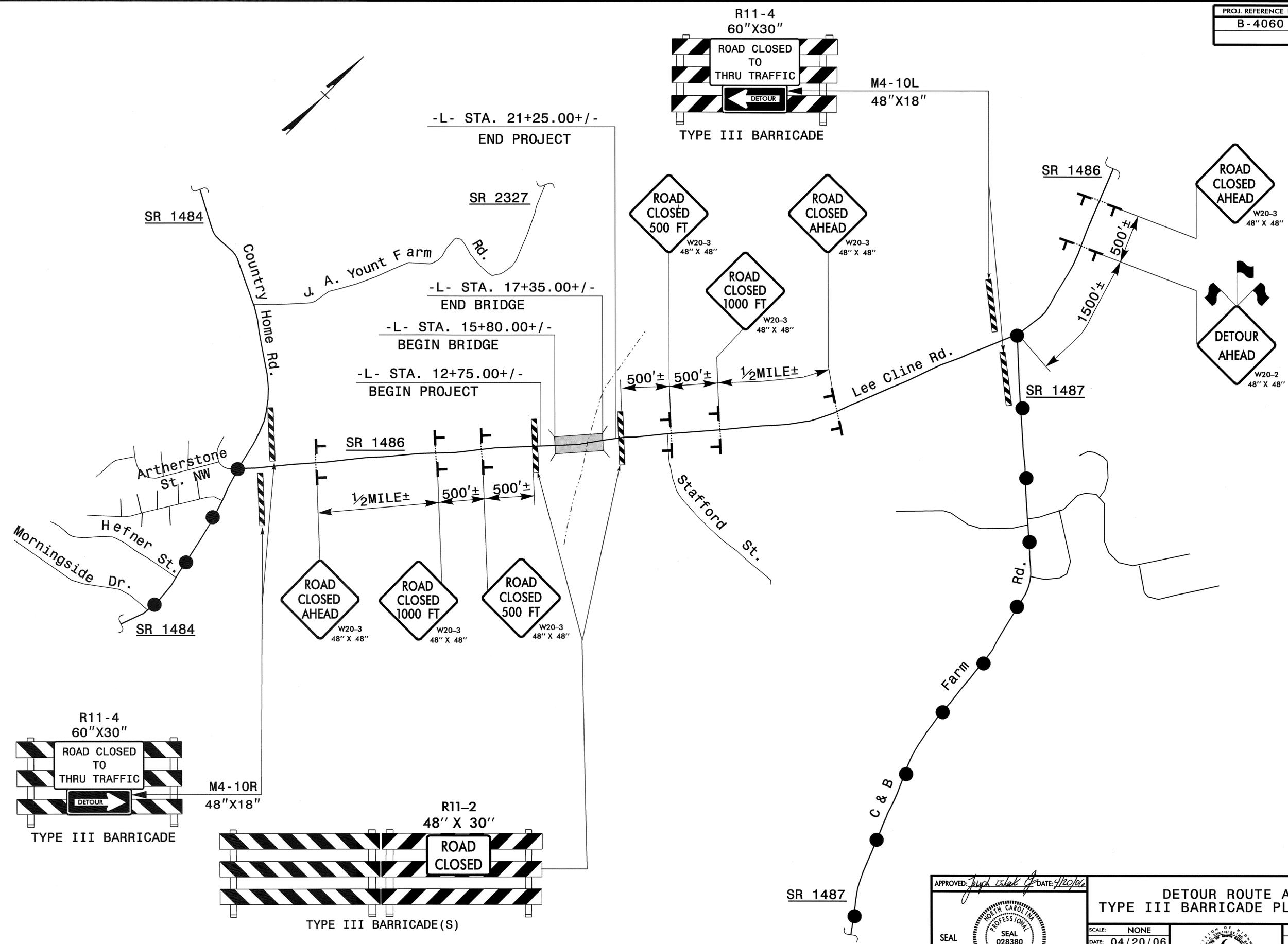
STEP 1: USING SHEETS TCP-3 AND TCP-4, INSTALL DETOUR SIGNS, PLACE TYPE III BARRICADES TO CLOSE SR 1486 (LEE CLINE RD.) TO THROUGH TRAFFIC, AND DETOUR TRAFFIC ONTO PROPOSED DETOUR.

- STEP 2: AWAY FROM TRAFFIC, COMPLETE THE FOLLOWINGS:
- REMOVE EXISTING STRUCTURE No.17 AND CONSTRUCT PROPOSED STRUCTURE FROM -L- STA.15+80+/- TO -L- STA.17+35+/- . SEE ROADWAY PLANS.
  - CONSTRUCT PROPOSED ROADWAY UP TO AND INCLUDING FINAL LAYER OF SURFACE COURSE FROM -L- STA.12+75+/- TO -L- STA.21+25+/- . SEE ROADWAY PLANS.
  - PLACE FINAL PAVEMENT MARKINGS (PAINT) FROM -L- STA.12+75+/- TO -L- STA.21+25+/- , AND TIE TO EXISTING MARKINGS. (NO PAVEMENT MARKERS WILL BE USED).

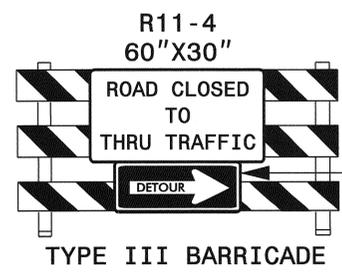
STEP 3: REMOVE ALL TRAFFIC CONTROL DEVICES AND ALL DETOUR SIGNING. OPEN SR 1486 (LEE CLINE RD.) TO TWO-LANE, TWO-WAY TRAFFIC PATTERN.

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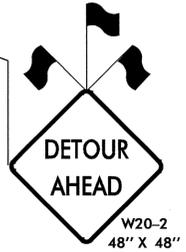
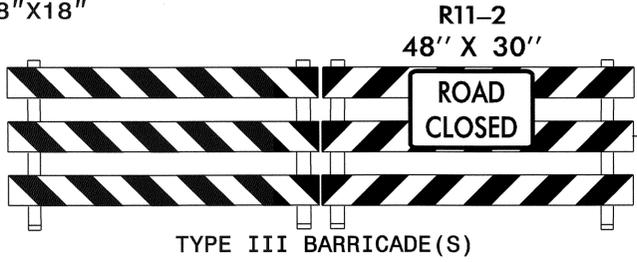
APPROVED: <i>Joseph Ishak</i> DATE: 1/19/06		<b>PROJECT NOTES AND PHASING</b>	
SEAL 	SCALE: NONE		REVISIONS
	DATE: 01/17/06		
	DWG. BY: AYL		
	DESIGN BY: AYL		
	REVIEWED BY: JI		



M4-10L  
48"X18"



M4-10R  
48"X18"



APPROVED: *Joseph Isak* DATE: 4/20/06

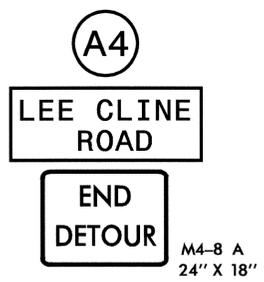
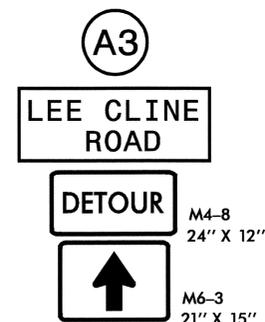
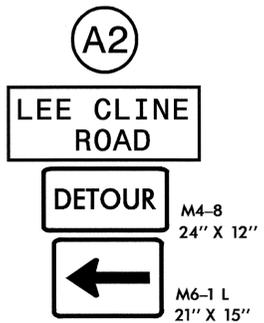
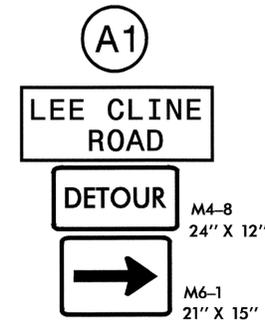
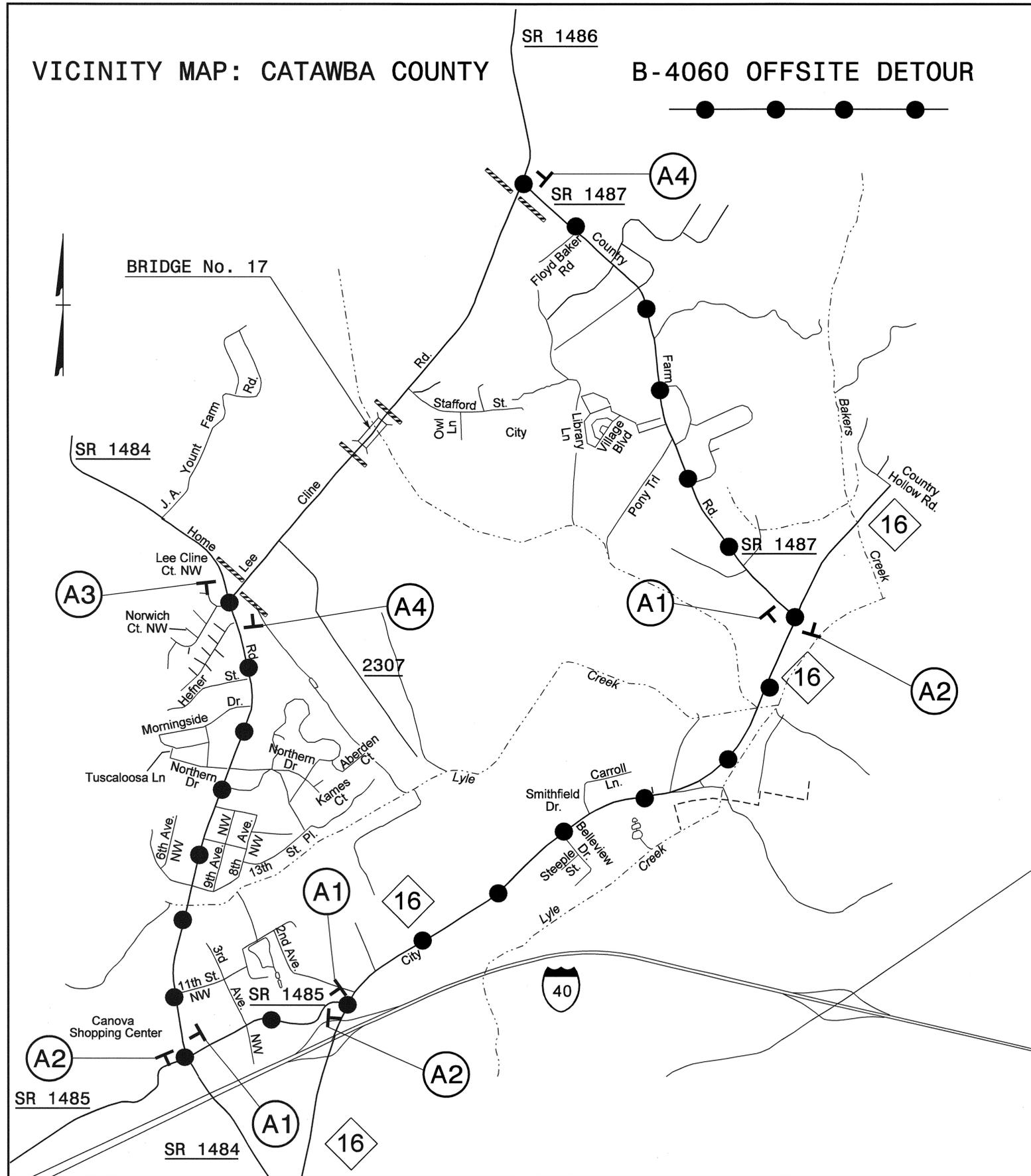
SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL 028380  
JOSEPH ISAK

SCALE: NONE		REVISIONS	
DATE: 04/20/06			
DWG. BY: AYL			
DESIGN BY: AYL			
REVIEWED BY: JI			

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 d:\jdm AT WZ10221239

VICINITY MAP: CATAWBA COUNTY

B-4060 OFFSITE DETOUR



SEE SHEET TCP-5 FOR SIGN DETOUR DESIGN

APPROVED: *Joseph Ishtak* DATE: 1/19/06

SEAL  
NORTH CAROLINA PROFESSIONAL ENGINEER  
SEAL 028380  
JOSEPH ISHTAK

**DETOUR ROUTE**

SCALE: NONE		REVISIONS
DATE: 01/17/06		
DWG. BY: AYL		
DESIGN BY: AYL		
REVIEWED BY: JI		

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