STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO. SHEET NO. TCP-1

PLAN FOR PROPOSED TRAFFIC CONTROL, MARKING & DELINEATION

LENOIR COUNTY

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:

S	T	D	NO.

TITLE

GUARDRAIL END DELINEATION

1101.03	TEMPORARY ROAD CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1110.01	STATIONARY WORK ZONE SIGNS
1145.01	BARRICADES
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE AND MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1251.01	RATSED PAVEMENT MARKERS - TEMPORARY AND PERMANENT

GUARDRAIL AND BARRIER DELINEATOR SPACING

GUARDRAIL AND BARRIER DELINEATOR TYPES

[INDEX OF SHEETS]

SHEET NO.

TCP-1

TITLE

LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, INDEX OF SHEETS, LEGEND AND PAVEMENT MARKING SCHEDULE.

TCP-2 GENERAL NOTES, LOCAL NOTES AND PHASING.
TCP-3 & 4 OFF-SITE DETOUR

LEGEND

GENERAL

DIRECTION OF TRAFFIC FLOW

PROPOSED PVMT. ----- EXIST. PVMT.

WORK AREA

REMOVAL OF EXISTING PAVEMENT

TRAFFIC CONTROL DEVICES

T TYPE I BARRICADE

TYPE III BARRICADE

CONE

DRUM SKINNY DRUM

FLASHING ARROW PANEL (TYPE C)

- STATIONARY SIGN

PORTABLE SIGN

STATIONARY OR PORTABLE SIGN

-~ 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

FINAL PAVEMENT MARKING SCHEDULE						
SYMBOL	DESCRIPTION		PAY ITEM QUANTITY BREAKDOWN		TOTAL QUANTITY	
P4	PAINT(24") WHITE STOPBAR (2X)	48	LF TOTAL	48	LF	
CA CI	COLD APPLIED PLASTIC (4") TYPE 3 - PERMANENT WET WHITE EDGELINE YELLOW DOUBLE CENTER	REFLECTIVE 190 190	LF LF TOTAL	380	LF	
PA PI	WHITE (2X) YELLOW (2X)	50000 50000	LF LF TOTAL	100000	LF	
TI	THERMOPLASTIC (4", 120 MILS) STANDARD GLASS YELLOW DOUBLE CENTER	BEADS 1460	LF TOTAL	1460	LF	
TA	THERMOPLASTIC (4", 90 MILS) STANDARD GLASS WHITE EDGELINE	BEADS 1536	LF TOTAL	1536	LF	
	PAINT MARKING SYMBOLS					
QB QD	RIGHT TURN ARROW (2X) COMBO.STRAIGHT/LEFT (2X)	2 2	EA EA TOTAL	4	EA	
PERMANENT RAISED PAVEMENT MARKERS						
MA	YELLOW & YELLOW	166	EA TOTAL	166	EA	
NOTE: FOR EACH PAINT PAVEMENT MARKING ITEM 2X IMPLIES TWO APPLICATIONS						

APPROVED: excafust DATE: 3/18/08		PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT
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	02/811	J. D. KUSE, P.E. TRAFFIC CONTROL PROJECT DESIGN ENGINEER
	Translation D. R.	W. S. ARMSTRONG TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN

PROJECT NOTES

PROJ. REFERENCE NO. SHEET NO. B-4172 <u>TCP-2</u>

REVISIONS

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.

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.

PAVEMENT EDGE DROP OFF REQUIREMENTS

A) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500' IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- D) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- PROVIDE PERMANENT SIGNING.
- PROVIDE DETOUR SIGNING WITHIN AND OFF THE PROJECT LIMITS.
- COVER OR REMOVE ALL DETOUR SIGNS WITHIN AND OFF THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- H) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

I) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME

MARKING

MARKER

NC 32 (ASPHALT) NC 32 (BRIDGE) ALL OTHER ROADS THERMOPLASTIC COLD APPLIED PLASTIC PAINT

RAISED REFLECTIVE RAISED REFLECTIVE RAISED REFLECTIVE

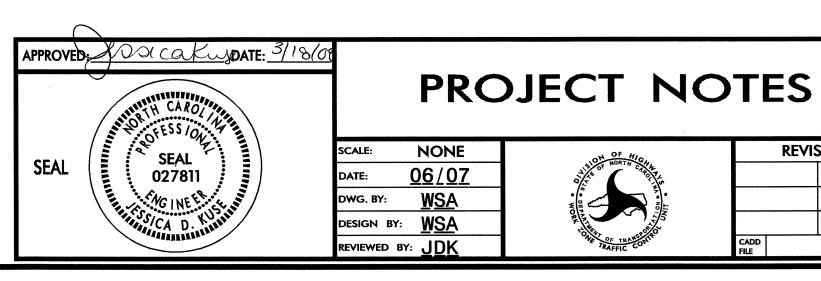
TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

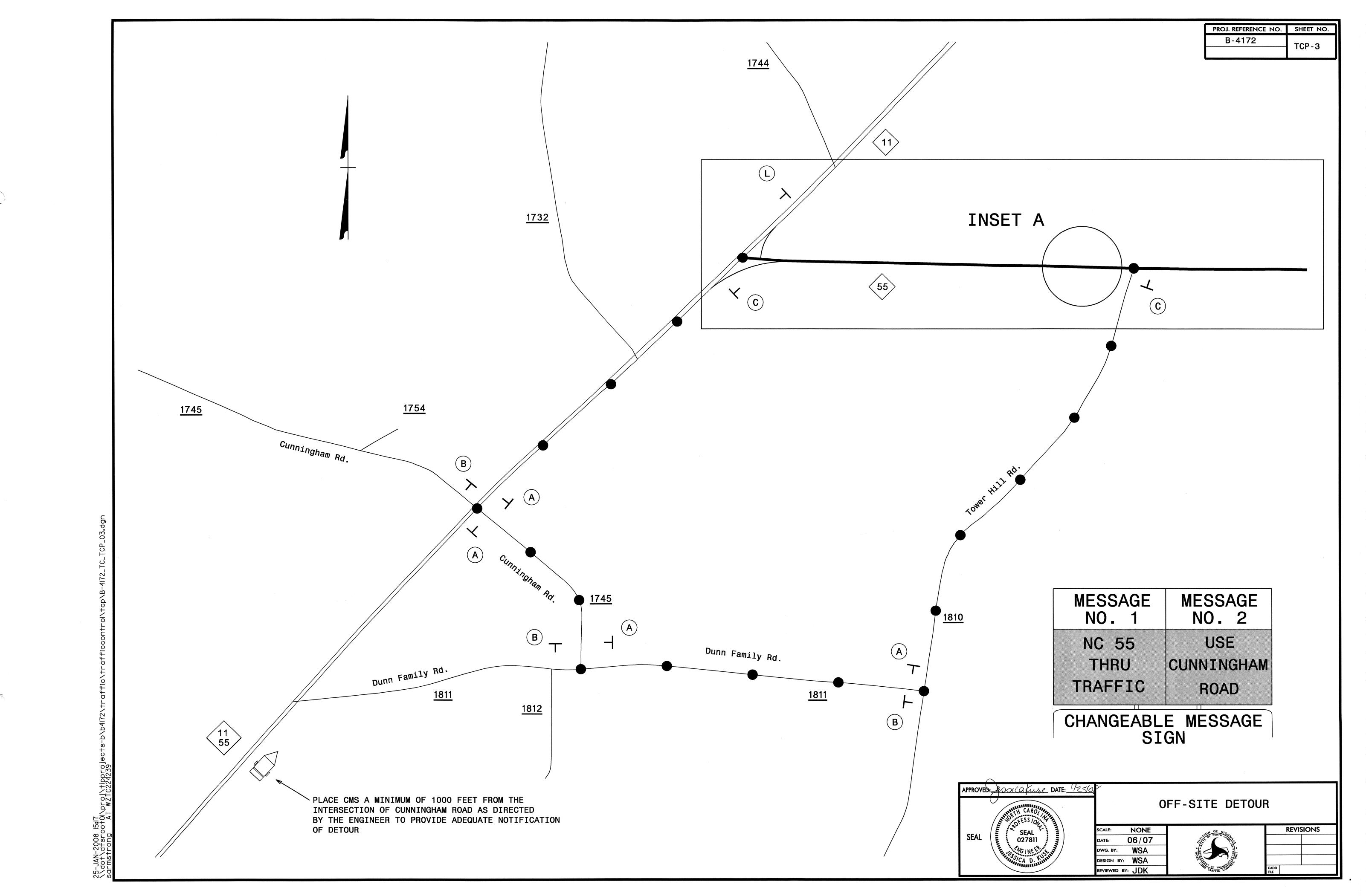
LOCAL NOTES

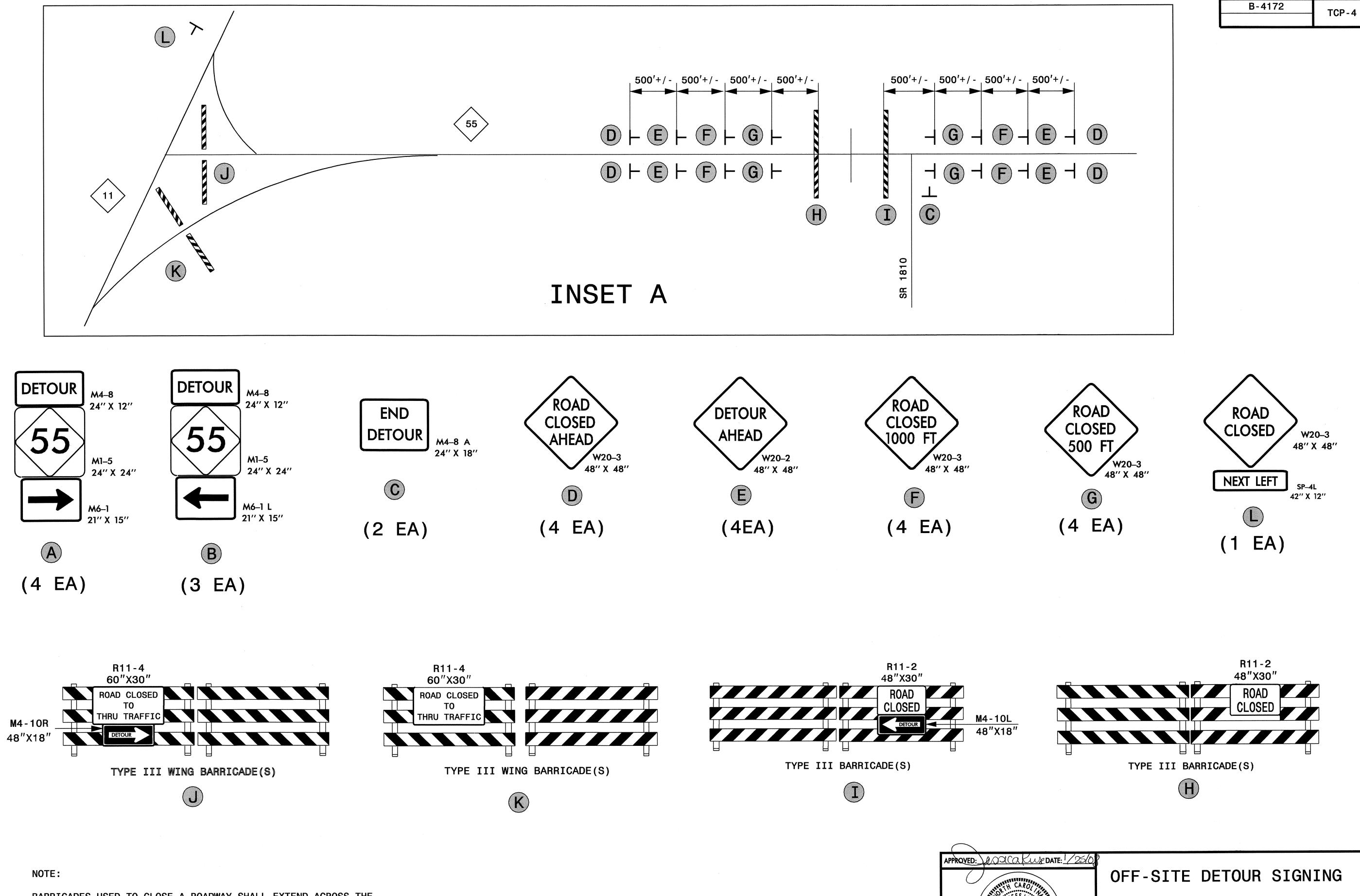
- PROVIDE ADVANCED NOTICE OF ROAD CLOSURE FOR NC 55 TO LENGIR COUNTY EMERGENCY MANAGEMENT SERVICES AND TO THE LENGIR COUNTY SCHOOL TRANSPORTATION OFFFICE IN ORDER FOR THEM TO FACILITATE THEIR SERVICES DURING CONSTRUCTION.
- COMPLETE DETOUR IMPROVEMENTS PRIOR TO CLOSING NC 55 TO THROUGH TRAFFIC.
- INSTALL SIGNS BEFORE THE BARRICADES WHEN CLOSING THE ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE THE SIGNS WHEN OPENING THE ROADWAY TO TRAFFIC. INSTALL/REMOVE SIGNS AND BARRICADES WITHIN THE SAME CALENDAR DAY.
- 4. ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- 5. STATE FORCES WILL RETIME THE SIGNAL AT THE INTESECTION SR 1745 AND NC 11 AS NEEDED TO ACCOMMODATE THE INCREASED LEFT TURN TRAFFIC.
- MAINTAIN DRIVEWAY ACCESS WITHIN PROJECT LIMITS USING INCIDENTAL STONE.
- USE FLAGGERS AS NEEDED TO MAINTAIN LOCAL TRAFFIC WITHIN ROAD CLOSURE. FLAGGING WILL BE INCIDENTAL TO THE COST OF THE CONTRACT.
- 8. REAPPLY PAVEMENT MARKINGS UP TO 100' BEYOND CONSTRUCTION LIMITS IF NEEDED TO REPAIR DAMAGE AND/OR TRACKING FROM CONSTRUCTION.

PHASING

- STEP 1 USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 9 COMPLETE THE FOLLOWING IMPROVEMENTS TO THE DETOUR ROUTE:
 - WIDEN SR 1745 AND SR 1811
 - RESURFACE SR 1745, SR 1810 AND SR 1811
 - PLACE PAINT PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS ON SR 1745. SR 1810 AND SR 1811
- STEP 2 INSTALL SIGNS AND BARRICADES CLOSING NC 55 TO THROUGH TRAFFIC AS SHOWN ON TCP-3 AND TCP-4 AND IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1101.03, SHEETS 1 AND 2 OF 9. INSTALL AND OPERATE CMS FOR 30 DAYS AS SHOWN ON TCP-3. (SEE LOCAL NOTES NO. 1, 2, 3, 4, AND 5)
- CONSTRUCT THE FOLLOWING WITHIN THE ROAD CLOSURE: (SEE LOCAL NOTES NO. 6 AND 7)
 - -REMOVE THE EXISTING STRUCTURE
 - -CONSTRUCT THE PROPOSED STRUCTURE
 - -CONSTRUCT THE PROPOSED ROADWAY SECTION -L- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE FROM STA. 12+25+/- TO STA. 15+82+/- AND FROM STA. 16+77+/- TO STA. 20+50+/-
- STEP 4 PLACE THE FINAL LAYER OF SURFACE COURSE FROM STA. 12+25+/-TO STA. 15+82+/- AND FROM STA. 16+77+/- TO STA. 20+50+/- AND APPLY THE FINAL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON -L- FROM STA. 12+25+/- TO STA. 20+50+/-. (SEE LOCAL NOTE NO. 8)
- REMOVE ALL BARRICADES, ROAD CLOSED SIGNS AND DETOUR SIGNS AND OPEN NC 55 TO THROUGH TRAFFIC. (SEE LOCAL NOTE NO. 3)







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BARRICADES USED TO CLOSE A ROADWAY SHALL EXTEND ACROSS THE ENTIRE ROADWAY. WHERE LOCAL TRAFFIC MUST BE MAINTAINED, THEY MAY BE PLACED IN A STAGGERED POSITION.

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REVISIONS

CADD FILE

PROJ. REFERENCE NO.

SHEET NO.