

## GENERAL 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 UNDESIRED 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.

### LANE AND SHOULDER CLOSURE REQUIREMENTS

- A) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
- B) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 40 FT (12m) OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- C) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT (1.5m) OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- E) DO NOT WORK SIMULTANEOUSLY, ON BOTH SIDES OF AN OPEN TRAVELWAY, WITHIN THE SAME LOCATION, ON A TWO-LANE, TWO-WAY ROAD.
- F) DO NOT PERFORM WORK INVOLVING HEAVY EQUIPMENT WITHIN 15 FT (5m) OF THE EDGE OF TRAVELWAY WHEN WORK IS BEING PERFORMED BEHIND A LANE CLOSURE ON THE OPPOSITE SIDE OF THE TRAVELWAY.
- G) DO NOT INSTALL MORE THAN 1/2 MILE OF LANE CLOSURE ON NC 111, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- H) DO NOT INSTALL MORE THAN ONE LANE CLOSURE, IN ANY ONE DIRECTION, ON NC 111.

### PAVEMENT EDGE DROP OFF REQUIREMENTS

- I) 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 A DROP-OFF AS FOLLOWS:
  - BACKFILL DROP-OFFS THAT EXCEED 2 INCHES (50mm) ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
  - BACKFILL DROP-OFFS THAT EXCEED 3 INCHES (75mm) 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.
- J) DO NOT EXCEED A DIFFERENCE OF 1.5 inches (40mm) IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (WB-11) 500 FT (150m) IN ADVANCE AND A MINIMUM OF ONCE EVERY MILE THROUGHOUT THE UNEVEN AREA.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 100 FT (31m) FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

WHEN NO WORK IS BEING CONDUCTED FOR A PERIOD LONGER THAN ONE WEEK, REMOVE OR COVER ALL ADVANCE WORK ZONE WARNING SIGNS, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE DEPARTMENT.

- M) PROVIDE PERMANENT SIGNING.
- N) PROVIDE DETOUR SIGNING WITHIN THE PROJECT LIMITS.
- O) COVER OR REMOVE ALL DETOUR SIGNS WITHIN THE PROJECT LIMITS WHEN A DETOUR IS NOT IN OPERATION.
- P) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

### TRAFFIC CONTROL DEVICES

- Q) WHEN USING ROADWAY STANDARD NO. 1101.02, SHEET 1 OF 7, DRUMS MAY BE USED IN LIEU OF CONES ON NC 111.
- R) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT (3m) ON-CENTER IN RADII, AND 3 FT (1m) OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT.
- S) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY. STAGGER OR OVERLAP BARRICADES TO ALLOW FOR INGRESS OR EGRESS.
- T) PLACE SETS OF THREE DRUMS PERPENDICULAR TO THE EDGE OF THE TRAVELWAY ON 500 FT (150m) CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC. THESE DRUMS SHALL BE IN ADDITION TO CHANNELIZING DEVICES.

### PAVEMENT MARKINGS AND MARKERS

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

ROAD NAME	MARKING	MARKER
1. NC 111	THERMOPLASTIC	PERMANENT RAISED

- X) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
1. -DET-	PAINT	TEMPORARY RAISED

- Y) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

- Z) PLACE AT LEAST TWO APPLICATIONS OF PAINT ON NEW ASPHALT WITH TEMPORARY TRAFFIC PATTERNS WHICH WILL REMAIN IN PLACE OVER THREE (3) MONTHS. PLACE ADDITIONAL APPLICATIONS OF PAINT UPON SUFFICIENT DRYING TIME, AS DETERMINED BY THE ENGINEER.

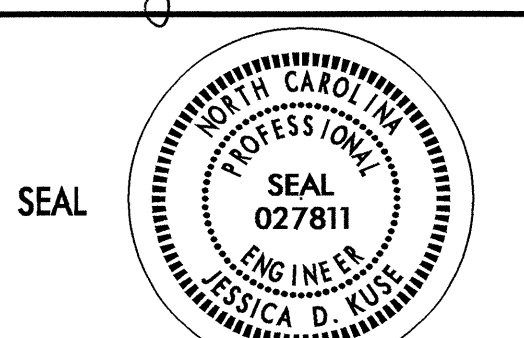
## PHASING

### PHASE I

- STEP 1) INSTALL ALL ADVANCE WARNING SIGNING. IF WORK IS NOT PURSUED WITHIN THREE DAYS OF SIGN INSTALLATION, THE SIGNS SHALL BE COVERED OR IN A METHOD APPROVED BY THE ENGINEER ACCORDING TO SECTION 1110 (SEE TCP-3).
- STEP 2) USING ROADWAY STANDARD DRAWING (RSD) 1101.02, SHEET 1 OF 7, AS NEEDED CONSTRUCT -DET- FROM STA. 12+10 +/- -DET- TO STA. 24+63 +/- -DET- UP TO AND INCLUDING THE FINAL SURFACE COURSE, INCLUDING THE STRUCTURE AND TEMPORARY GUARDRAIL (SEE ROADWAY PLANS). AT THE END OF THE WORKDAY INSTALL BARRICADES AND DRUMS ON -DET- AS SHOWN ON TCP-3 AND MAINTAIN ACCESS TO ALL DRIVEWAYS WITH INCIDENTAL STONE.
- STEP 3) COMPLETE THE FOLLOWING IN A CONTINUOUS MANNER:
  - USING RSD 1101.02, SHEET 1 OF 7, REMOVE CONFLICTING PAVEMENT MARKINGS ON -L- FROM STA. 11+50 -L- TO STA. 14+00 -L- AND FROM STA. 22+78 -L- TO STA. 25+28 -L-.
  - PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS FROM STA. 11+50 -DET- TO STA. 25+28 -DET-.
  - USING RSD 1101.03, SHEET 3 OF 9 AND TCP-4 SHIFT NC 111 TRAFFIC ONTO DETOUR.
- STEP 4) USING TEMPORARY SLOPES ALONG -L- AS NEEDED (SEE CROSS SECTIONS) CONSTRUCT THE FOLLOWING:
  - -L- FROM STA. 14+25 -L- TO STA. 22+25 -L- UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE.
  - USING RSD 1101.02, SHEET 1 OF 7, CONSTRUCT -L- FROM STA. 13+00 -L- TO STA. 14+25 -L- AND FROM STA. 22+25 -L- TO STA. 24+50 -L- UP TO THE EXISTING EDGE AND ELEVATION (SEE TCP-4).

### PHASE II

- STEP 1) USING RSD 1101.02, SHEET 1 OF 7, COMPLETE THE FOLLOWING IN A CONTINUOUS MANNER:
  - PLACE TRAFFIC IN A ONE LANE TWO WAY PATTERN ON -DET- NORTHBOUND AND CONSTRUCT -L- SOUTHBOUND FROM STA. 13+00 -L- TO STA. 14+25 -L- AND FROM STA. 22+25 -L- TO STA. 24+50 -L- UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE.
  - SHIFT TRAFFIC IN A ONE LANE TWO WAY PATTERN ON -L- SOUTHBOUND AND CONSTRUCT -L- NORTHBOUND FROM STA. 13+00 -L- TO STA. 14+25 -L- AND FROM STA. 22+25 -DET- TO STA. 24+50 -L- UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE.
  - REMOVE TEMPORARY MARKINGS FROM STA. 11+50 -L- TO STA. 13+00 -L- AND FROM STA. 24+50 -L- TO STA. 25+28 -L-.
  - PLACE TEMPORARY PAVEMENT MARKINGS AND MARKERS ON -L- FROM STA. 11+50 -L- TO STA. 25+28 -L- (REFER TO RSD 1205.01, 1205.02, 1205.12, 1250.01, AND 1251.01).
  - PLACE TYPE III BARRICADES AND DRUMS ALONG -DET- TIE INS AT THE END OF THE WORKDAY AND OPEN -L- TO TWO LANE, TWO WAY TRAFFIC.
- STEP 2) USING RSD 1101.02, SHEET 1 OF 7 AS NEEDED, REMOVE -DET- AND COMPLETE CONSTRUCTION OF ALL SLOPES ALONG -L-.
- STEP 3) USING RSD 1101.02, SHEET 1 OF 7, PLACE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND FINAL PAVEMENT MARKERS FROM STA. 11+50 -L- TO STA. 25+28 +/- -L- (REFER TO RSD 1205.01, 1205.02, 1205.12, 1250.01, AND 1251.01).

APPROVED: <i>Jessica Kuse</i> DATE: <i>9/20/04</i> 	<h3>PROJECT NOTES</h3>								
SCALE: NONE DATE: 12/03 DWG. BY: DAH DESIGN BY: DAH REVIEWED BY: JDK	<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr> <td style="width: 5%;"> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS							
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