

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

|                             |           |
|-----------------------------|-----------|
| STATE PROJECT REFERENCE NO. | SHEET NO. |
| U-4754                      | TCP-1     |

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

U-4754

**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                           |
|----------|---------------------------------|
| 1101.02  | TEMPORARY LANE CLOSURES         |
| 1101.03  | TEMPORARY ROAD CLOSURES         |
| 1101.04  | TEMPORARY SHOULDER CLOSURES     |
| 1101.05  | WORK ZONE VEHICLE ACCESSES      |
| 1101.11  | TRAFFIC CONTROL DESIGN TABLES   |
| 1110.01  | STATIONARY WORK ZONE SIGNS      |
| 1110.02  | PORTABLE WORK ZONE SIGNS        |
| 1115.01  | FLASHING ARROW PANELS           |
| 1130.01  | DRUM                            |
| 1135.01  | CONES                           |
| 1145.01  | BARRICADES                      |
| 1150.01  | FLAGGING DEVICES                |
| 1160.01  | TEMPORARY CRASH CUSHION         |
| 1165.01  | TRUCK MOUNTED IMPACT ATTENUATOR |
| 1180.01  | SKINNY-DRUM                     |

**INDEX OF SHEETS**

| SHEET NO. | TITLE   |
|-----------|---|
| TCP-1     | LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS,<br>LEGEND AND INDEX OF SHEETS |
| TCP-2     | GENERAL NOTES, PHASING  |

**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
  - 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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|                                |  |
|--------------------------------|--|
| APPROVED: _____<br>DATE: _____ | PLAN PREPARED BY: N.C.D.O.T. WORK ZONE TRAFFIC CONTROL UNIT  |
|                                | J. S. BOURNE, PE TRAFFIC CONTROL ENGINEER                    |
|                                | G. L. GETTIER, PE TRAFFIC CONTROL PROJECT ENGINEER           |
|                                | J. W. WOOLARD, PE TRAFFIC CONTROL PROJECT DESIGN ENGINEER    |
|                                | L. K. DONALDSON TRAFFIC CONTROL DESIGN ENGINEER / TECHNICIAN |

# GENERAL NOTES

# PHASING

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.

### TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

| ROAD NAME | DAY AND TIME RESTRICTIONS                    |
|-----------|--|
| ALL ROADS | MONDAY THROUGH FRIDAY 5:00 A.M. TO 9:00 P.M. |

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

| ROAD NAME |
|-----------|
| ALL ROADS |

### HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 9:00 P.M. DECEMBER 31st TO 5:00 A.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 5:00 A.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 9:00 P.M. THURSDAY AND 5:00 A.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 9:00 P.M. FRIDAY TO 5:00 A.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 9:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 5:00 A.M. THE DAY AFTER INDEPENDENCE DAY.  
  
IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 9:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 5:00 A.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 9:00 P.M. FRIDAY AND 5:00 A.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 9:00 P.M. TUESDAY TO 5:00 A.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 9:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 5:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
9. FOR NASCAR RACES AT LOWE'S MOTOR SPEEDWAY, BETWEEN THE HOURS OF 5:00 A.M. THE THURSDAY OF THE WEEK OF THE RACE UNTIL 9:00 P.M. THE FOLLOWING MONDAY AFTER THE WEEK OF THE RACE.
10. FOR ANY CAROLINA PANTHERS FOOTBALL GAME OR CHARLOTTE BOBCATS BASKETBALL GAME IN CHARLOTTE, FROM 3 HOURS BEFORE THE GAME UNTIL 3 HOURS AFTER THE GAME.

### LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) 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.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN 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 OR A LANE CLOSURE IS INSTALLED.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT 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.  
  
WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT 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.
- F) 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.
- G) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

### TRAFFIC PATTERN ALTERATIONS

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

### SIGNING

- I) 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.
- J) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

### TRAFFIC CONTROL DEVICES

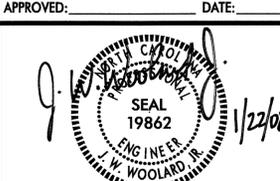
- K) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY, WHEN LANE CLOSURES ARE NOT IN EFFECT. WHEN SKINNY DRUMS ARE ALLOWED, REFER TO SECTION 1180 OF STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES OR AS SHOWN IN THE PLANS.
- L) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

### MISCELLANEOUS

- M) POLICE MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS, AS DIRECTED BY THE ENGINEER.

USING ROADWAY STANDARD DRAWINGS 1101.02, SHEETS 1, 3, 6, 7 OF 9 AND 1101.04, SHEET 1 OF 1: INSTALL COMMUNICATIONS CABLE AND CONDUIT ROUTING, CAMERAS AND VEHICLE DETECTORS, AND DYNAMIC MESSAGE SIGN AS SHOWN IN THE CONSTRUCTION PLANS.

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|   |             |                      |   |           |
|---|-------------|----------------------|---|-----------|
| APPROVED: _____   | DATE: _____ | <b>PROJECT NOTES</b> |   |           |
|  |             | SCALE: NONE          |  |           |
|   |             | DATE: _____          |   | REVISIONS |
|   |             | DWG. BY: LKD         |   |           |
|   |             | DESIGN BY: LKD       |   |           |
|   |             | REVIEWED BY: JWW     |   |           |