| PROJ. REFERENCE NO. | SHEET NO. |
|---|---|
| R-4903 | TMP-3A |

# *PHASING*

NOTES:

1. MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION
2. REPLACE EXISTING PAVEMENT MARKINGS COVERED OR DAMAGED BY CONSTRUCTION ACTIVITY AT THE END OF EACH WORK DAY.
3. CONSTRUCT ALL PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE UNLESS OTHERWISE STATED IN PHASING, OR AS DIRECTED BY THE ENGINEER
4. IN THE PHASING SHOWN BELOW "FLAGGER" IS DEFINED AS RSD 1101.02, SHEET 1 OF 15, AND "LANE CLOSURE" IS DEFINED AS RSD 1101.03, SHEET 3 OF 15.
5. IN THE PHASING BELOW, WHENEVER IT IS STATED TO STOP TRAFFIC FOR THE PURPOSE OF SHIFTING TRAFFIC, OR REMOVING EXISTING OVERHEAD SIGN INSTALLATIONS, THE MAXIMUM ALLOWABLE TIME TO STOP TRAFFIC IS 20 MINUTES AND THE CONTRACTOR MUST REOPEN THE TRAVEL LANES TO TRAFFIC UNTIL ANY RESULTING TRAFFIC QUEUE IS DEPLETED, (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES)

PHASE IA

STEP 1 -- INSTALL ADVANCE WORK ZONE WARNING SIGNS IN ACCORDANCE WITH RSD 1101.01, SHEETS 2 AND 3 OF 3.

-- INSTALL WORK ZONE SPEED REDUCTION SIGNING. (SEE TMP-6 AND 10)

STEP 2 -- WITHOUT INTERFERING WITH THE EXISTING TRAFFIC PATTERN, CONTRACTOR MAY BEGIN UTILITY RELOCATION, CLEARING AND GRADING THROUGHOUT THE LIMITS OF PHASE IB (SEE TMP-7 THRU TMP-12)

-- USING FLAGGERS AND LANE CLOSURES, PERFORM THE FOLLOWING:

-- CONSTRUCT -DET1- AND -DET2- TO EDGE AND ELEVATION OF EXISTING NC 87 (SEE TMP 4 AND 5).

-- INSTALL AND COVER TEMPORARY SIGNAL AT US 701 FOR PHASE IB TRAFFIC PATTERN (SEE SIGNAL PLANS).

-- REMOVE NOSE OF EXISTING CONCRETE ISLANDS ON EXIST. US 701 APPROACHES (SEE ROADWAY PLANS).

PHASE IB

STEP 1 -- INSTALL AND COVER STATIONARY SIGNS REQUIRED FOR THE PHASE IB TRAFFIC PATTERN AND POSITION CHANGEABLE MESSAGE SIGN WITH MESSAGES ADVERTISING UPCOMING TRAFFIC PATTERN CHANGE. ADVERTISE TRAFFIC PATTERN CHANGE ON CHANGEABLE MESSAGE SIGNS FOR TWO WEEKS PRIOR TO SHIFT WITH THE FOLLOWING MESSAGE:

| MESSAGE 1 | MESSAGE 2 |
|---|---|
| NEW | BEGINS |
| TRAFFIC | MM/DD |
| PATTERN | |

(SEE TMP-6 THRU 10).

STEP 2 -- BEGIN THE TRAFFIC SHIFT TO THE PHASE IB TRAFFIC PATTERN AS FOLLOWS (SEE TMP-7 THRU 10):

A. INSTALL A LEFT LANE CLOSURE AND SHIFT NC 87 SB INTO THE RIGHT LANE

B. INSTALL A LEFT LANE CLOSURE AND SHIFT NC 87 NB INTO THE RIGHT LANE

C. BEHIND THE LANE CLOSURES:

1. INSTALL PCB AND CRASH CUSHION FROM -DET1- STA. 20+58+/- TO -DET1- STA. 25+29 +/- (SEE TMP-8)

2. INSTALL TEMPORARY PHASE IB NB PAVEMENT MARKINGS FROM -DET- STA. 10+00 +/- TO -Y02- STA. 312+40+/- (SEE TMP-7 THRU 10)

STEP 3 -- WORK IN A CONTINUOUS MANNER TO COMPLETE THE TRAFFIC SHIFT TO THE PHASE IB TRAFFIC PATTERN AS FOLLOWS:

A. PLACE EXISTING SIGNAL ON RED FLASH AND USE LAW ENFORCEMENT TO DIRECT TRAFFIC AT THE INTERSECTION.

B. INSTALL TEMPORARY PHASE IB SB PAVEMENT MARKINGS FROM -Y02- STA 226+40 +/- TO -DET1- STA. 18+62 +/- AND FROM -DET1- STA. 19+95 +/- TO 287+00+/- (SEE TMP-7 THRU 10)

NOTE: PACE TRAFFIC TO A STOP ON NC 87 SB TO INSTALL TEMPORARY PHASE IB IN-LANE PAVEMENT MARKING SYMBOLS AND REVISE STOP BAR LOCATION.

C. USE FLAGGERS TO STOP TRAFFIC ON US 701 NB AND INSTALL PAVEMENT MARKINGS, REVISED STOP BARS, AND IN-LANE PAVEMENT SYMBOLS ON US 701 NB (SEE TMP-8).

D. UNCOVER SIGNING FOR LONG TERM RIGHT LANE CLOSURE OF NC 87 NB AND AND PACE NC 87 NB TRAFFIC INTO THE LEFT LANE AND INTO THE MEDIAN DETOUR.

E. USE FLAGGERS TO STOP TRAFFIC ON US 701 SB AND INSTALL PAVEMENT MARKINGS, REVISED STOP BARS, AND IN-LANE PAVEMENT SYMBOLS ON US 701 SB (SEE TMP-8).

F. ACTIVATE PHASE IB TEMPORARY SIGNAL.

G. PACE NC 87 NB TRAFFIC TO A STOP AND INSTALL MERGE TAPER FROM -Y02- STA. 312+40 +/- TO 319+00 +/- (SEE TMP-10)

NOTE: STEPS 4 AND 5 MAY BE PERFORMED CONCURRENTLY

STEP 4 -- AWAY FROM TRAFFIC CONSTRUCT THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE (SEE TMP-7 THRU TMP-10):

-- NC 87 NB FROM -Y02- STA. 277+65 TO 304+00 INCLUDING THE PROPOSED NC 87 NB BRIDGE AND:

-- -LPD- FROM -Y02- TO -LPD- STA. 12+00

-- -RMPD- FROM -Y02- TO -RMPD- STA. 13+50

-- NC 87 NB FROM -Y02-STA. 268+50 TO 275+67 (SEE TMP-7 AND 8)

-- -DET2- MEDIAN RADII (SEE TMP-8)

STEP 5 -- AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF THE FOLLOWING UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE:

-- BEGIN PROPOSED US 701 NEW LOCATION FROM NORTH OF THE NC 87 NB BRIDGE TO EXISTING US 701 INCLUDING PROPOSED STRUCTURE (NOTE: PRIOR TO BEGINNING PROPOSED STRUCTURE, USE FLAGGERS TO INSTALL TEMPORARY MARKINGS, PCB, AND CRASH CUSHIONS ON EXISTING US 701 (SEE TMP-8, 11-12)

-- BEGIN PROPOSED -RMPB- FROM -RMPB- STA. 13+70 TO STA. 22+50+/- (SEE TMP-7)

-- BEGIN -SR1- FROM -L- TO EXISTING US 701 (SEE TMP-11)

-- BEGIN -DRV1- (SEE TMP-11)

STEP 6 -- AWAY FROM TRAFFIC, INSTALL AS MUCH OF THE PHASE II TEMPORARY MARKINGS ON NC 87 NB AS POSSIBLE WITHOUT INTERFERING WITH THE PHASE IB TRAFFIC PATTERN FROM STA. 268+50 +/- TO STA. 284+00 +/- (SEE TMP-14 AND 15)

-- INSTALL PHASE II TEMPORARY SIGNAL, COVER HEADS (SEE SIGNAL PLANS)

-- INSTALL AND COVER PHASE II TEMPORARY GUIDE SIGNS (SEE TMP-14 AND 15)

PHASE II

NOTE: ADVERTISE TRAFFIC PATTERN CHANGE ON CHANGEABLE MESSAGE SIGNS FOR TWO WEEKS PRIOR TO SHIFT WITH THE FOLLOWING MESSAGE:

| MESSAGE 1 | MESSAGE 2 |
|---|---|
| NEW | BEGINS |
| TRAFFIC | MM/DD |
| PATTERN | |

(SEE TMP-13 THRU 16).

STEP 1 -- WORK IN A CONTINUOUS MANNER TO SHIFT TRAFFIC TO THE PHASE II TRAFFIC IN A SINGLE WORK PERIOD IN THE FOLLOWING SEQUENCE:

A. PLACE SIGNAL ON RED FLASH AND USE LAW ENFORCEMENT TO DIRECT TRAFFIC AT INTERSECTION.

B. USE FLAGGERS TO STOP TRAFFIC ON US 701 SB. REMOVE PHASE IB STOP BAR AND MARKINGS AND INSTALL PHASE II PAVEMENT MARKINGS, REVISED STOP BARS, AND IN-LANE PAVEMENT SYMBOLS ON US 701 SB (SEE TMP-15).

C. USING LAW ENFORCEMENT, PACE NC 87 NB TRAFFIC TO A STOP AT -Y02- STA. 295+00 +/-.

D. COMPLETE THE TEMPORARY PAVEMENT MARKINGS FOR THE PHASE II PATTERN ON NC 87 NB FROM -Y02- STA. 284+00 TO STA. 291+80 (SEE TMP-15 AND 16).

E. PACE NC 87 NB INTO THE PROPOSED PHASE II PATTERN, VACATING THE MEDIAN DETOURS.

F. USING LAW ENFORCEMENT, PACE NC 87 SB TRAFFIC TO A STOP AT -Y02- STA. 250+00 +/-.

G. COMPLETE THE TEMPORARY PAVEMENT MARKINGS FOR THE PHASE II PATTERN FOR NC 87 SB (SEE TMP-14 THRU 16).

H. DEACTIVATE THE PHASE IB TEMPORARY SIGNAL AND ACTIVATE THE PHASE II TEMPORARY SIGNAL IN RED FLASH MODE AND UN-COVER TEMPORARY PHASE II GUIDE SIGNS.

I. PACE NC 87 SB INTO THE PROPOSED PHASE II PATTERN, USING THE MEDIAN DETOURS (SEE TMP-13 THRU 16).

J. USE FLAGGERS TO STOP TRAFFIC ON US 701 NB, REMOVE PHASE IB STOP BAR AND MARKINGS AND INSTALL PHASE II PAVEMENT MARKINGS, REVISED STOP BARS, AND IN-LANE PAVEMENT SYMBOLS ON US 701 NB (SEE TMP-15)

K. ONCE TRAFFIC IS FULLY IN PHASE II PATTERN WITH MARKINGS AND DEVICES IN PLACE, PLACE TEMPORARY SIGNAL IN NORMAL OPERATING MODE.

STEP 2 -- USING FLAGGERS, INSTALL TEMPORARY PORTABLE CONCRETE BARRIER (PCB) ON SHOULDERS OF EXISTING US 701 AS SHOWN ON TMP-19.

APPROVED: DocuSigned by: Steve Kite DATE: 10/6/2014

NORTH CAROLINA PROFESSIONAL SEAL 022104 ENGINEER JOHN S. KITE, JR.

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

# TEMPORARY TRAFFIC CONTROL PHASING

10/3/2014
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