

PHASE I

PROJECT PHASING

PROJ. REFERENCE NO.	SHEET NO.
R-2237B	TCP-4

DURING PHASE I CONSTRUCTION, IT MAY BECOME NECESSARY TO MAKE MINOR REPAIRS TO EXISTING US 321 (-L-). MAKE SUCH REPAIRS WITHIN FORTY-EIGHT HOURS OF WRITTEN NOTIFICATION BY THE RESIDENT ENGINEER'S OFFICE. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

NOTE: MAINTAIN POSITIVE TEMPORARY DRAINAGE AT ALL TIMES DURING CONSTRUCTION IN ACCORDANCE WITH THE CONSTRUCTION PLANS AND AS DIRECTED BY THE ENGINEER.

COMPLETE THE WORK OF PHASE I, STEP 1A ON OR PRIOR TO JUNE 30, 2005. SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

NOTE: IT IS NOT NECESSARY TO COMPLETE STEP 1A PRIOR TO PROCEEDING WITH THE PROJECT.

STEP 1A -- INSTALL AND MAKE FULLY OPERATIONAL BOTH DYNAMIC MESSAGE SIGNS ON US 321 AS SPECIFIED IN THE SIGNING PLANS. THIS WORK INCLUDES BUT IS NOT LIMITED TO ANY AND ALL DESIGN, DESIGN REVIEW, FABRICATION, AND GRADING REQUIRED TO MAKE THE DYNAMIC MESSAGE SIGNS FULLY OPERATIONAL. USE ROADWAY STANDARD DRAWING NO. 1101.02, SHEET 3 OF 7, AND 1101.07, SHEET 1 OF 2 TO INSTALL THESE ASSEMBLIES OVER US 321. (SEE SIGNING PLANS, AND LOCAL NOTES 1 AND 3 ON SHEET TCP-3.)

STEP 1 -- USE ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 7 TO PERFORM THE FOLLOWING:

- INSTALL PERMANENT US 321 ALTERNATE ROUTE SIGNING ALONG NC 18, NC 268, NC 16, AND US 421. (SEE SIGNING PLANS.)
- INSTALL AND COVER STATIONARY OFF-SITE DETOUR AND OVERSIZE VEHICLE DETOUR SIGNS (SEE SHEETS TCP-9 AND TCP-10.)
- PLACE, BUT DO NOT ACTIVATE CHANGEABLE MESSAGE SIGNS (CMS) ALONG THE OFF-SITE DETOUR ROUTE (SEE SHEET TCP-9.)
- INSTALL WORKZONE ADVANCE WARNING SIGNS. (SEE SHEET TCP-43.)

NOTE: UNLESS NOTED OTHERWISE, MAINTAIN ACCESS TO DRIVEWAYS AS SHOWN AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT. PLACE TYPE II BARRICADES AS SHOWN TO PREVENT TRAFFIC FROM ENTERING NEWLY CONSTRUCTED AREAS AND DELINEATE WITH DRUMS.

NOTE: PHASE I, STEPS 2 AND 3 MAY BE PERFORMED CONCURRENTLY.

WHENEVER THE WORK OF PHASE I STEP 2 REQUIRES A BLASTING OPERATION, SEE LOCAL NOTE 1 ON SHEET TCP-3, INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

- STEP 2 -- AWAY FROM TRAFFIC BEGIN THE CONSTRUCTION OF PROPOSED US 321 (-L-), PROPOSED SR 1371 (WATERFALLS RD.) (-Y1-), AND DETOUR NO. 5 (-DET5-) IN THE FOLLOWING LOCATIONS UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AND PLACE TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (SNOWPLOWABLE) FOR A TWO-LANE, TWO-WAY INTERMEDIATE TRAFFIC PATTERN TO BE UTILIZED DURING PHASE II CONSTRUCTION (SEE CONSTRUCTION PLANS AND SHEETS TCP-16, 18-21, 23, AND 25-27 (SEE SHEETS TCP-29 THROUGH TCP-42 FOR PHASE II INTERMEDIATE TRAFFIC PATTERN.) :
- STA. 47+00 +/- -L- TO STA. 54+00 +/- -L- (LEFT)
  - STA. 64+50 +/- -L- TO STA. 75+00 +/- -L- (RIGHT)
  - STA. 87+00 +/- -L- TO STA. 97+00 +/- -L- (RIGHT)
  - STA. 110+25 +/- -L- TO STA. 134+50 +/- -L- (LEFT)
  - STA. 149+00 +/- -L- TO STA. 156+00 +/- -L- (LEFT AND RIGHT)
  - STA. 156+00 +/- -L- TO STA. 164+00 +/- -L- (LEFT)
  - STA. 209+00 +/- -L- TO STA. 229+00 +/- -L- (RIGHT)
  - STA. 273+00 +/- -L- TO STA. 276+00 +/- -L- (LEFT)
  - STA. 307+00 +/- -L- TO STA. 312+00 +/- -L- (LEFT AND RIGHT)

- STA. 317+50 +/- -L- TO STA. 322+00 +/- -L- (LEFT AND RIGHT)
- STA. 323+50 +/- -L- TO STA. 328+00 +/- -L- (LEFT AND RIGHT)
- STA. 329+50 +/- -L- TO STA. 332+50 +/- -L- (LEFT AND RIGHT)
- STA. 11+33 +/- -DET5- TO STA. 15+83 +/- -DET5-
- STA. 11+90 +/- -Y1- TO STA. 15+45 +/- -Y1-

NOTE: PLACE TYPE III BARRICADES WITH R11-2 "ROAD CLOSED" SIGNS AS SHOWN ON SHEET TCP-20 TO PREVENT ACCESS TO PROPOSED WATERFALLS RD. (SR 1371) (-Y1-) FROM EXISTING US 321.

WHENEVER THE WORK OF PHASE I, STEP 3 REQUIRES A BLASTING OPERATION, SEE LOCAL NOTE 1 ON SHEET TCP-3, INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.

NOTE: WHENEVER THE WORK OF PHASE I, STEP 3 REQUIRES WIDENING BEYOND EXISTING GUARDRAIL, SEE LOCAL NOTE NO. 2 ON SHEET TCP-3.

NOTE: PLACE TRAFFIC BACK INTO THE EXISTING TRAFFIC PATTERN AT THE CONCLUSION OF EACH WORKDAY.

NOTE: PRIOR TO INSTALLING ANY PORTABLE CONCRETE BARRIER ALONG US 321 WHERE TRAFFIC IS IN A TWO-LANE TWO WAY TRAFFIC PATTERN (INCLUDING BOTH EXISTING AND INTERMEDIATE TRAFFIC PATTERNS), UN-COVER THE DETOUR SIGNING FOR OVERSIZE VEHICLES, PUTTING THE DETOUR INTO EFFECT. THIS DETOUR MUST REMAIN IN EFFECT AS LONG AS ANY PORTABLE CONCRETE BARRIER REMAINS ALONG US 321 WITHIN A TWO-LANE TWO WAY TRAFFIC PATTERN. THE RESIDENT ENGINEER MUST NOTIFY MS. TAMMY DENNING OF THE NCDOT - OVERSIZE/OVERWEIGHT PERMIT UNIT AT 919-733-4740 AT LEAST 30 DAYS PRIOR TO PUTTING THIS DETOUR INTO EFFECT. COVER THE SIGNING TO CLOSE THE DETOUR IMMEDIATELY AFTER THE BARRIER IS REMOVED. THE RESIDENT ENGINEER MUST THEN NOTIFY SAID UNIT AS SOON AS POSSIBLE AFTER THE DETOUR IS CLOSED. (SEE SHEET TCP-10.)

STEP 3 -- USING FLAGGING OPERATIONS AS SHOWN ON SHEET TCP-45, BEGIN CONSTRUCTION OF PROPOSED US 321 (-L-), PROPOSED RICHLAND RD., (-Y1-), PROPOSED SR 1421 (FALCON CREST ST.) (-Y2-), -DET2-, -DET3-, AND -DET4- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE IN THE FOLLOWING LOCATIONS (SEE CONSTRUCTION PLANS AND SHEETS TCP-15 THROUGH TCP-28):

- STA. 31+50 +/- -L- TO STA. 35+50 +/- -L- (RIGHT)
- STA. 35+50 +/- -L- TO STA. 47+00 +/- -L- (LEFT AND RIGHT)
- STA. 54+00 +/- -L- TO STA. 64+50 +/- -L- (LEFT AND RIGHT)
- STA. 134+50 +/- -L- TO STA. 140+50 +/- -L- (LEFT AND RIGHT)
- STA. 276+00 +/- -L- TO STA. 290+35 +/- -L- (LEFT AND RIGHT)

NOTE: PLACE A TYPE III BARRICADE WITH A "ROAD CLOSED" SIGN (R11-2) TO CLOSE ACCESS TO THE SOUTHERN END OF CAROLINA CIRCLE (-Y4-) AT EXISTING US 321 AND AT THE LAST DRIVEWAY ON CAROLINA CIRCLE (SEE SHEET TCP-26).

- STA. 350+10 +/- -L- TO STA. 356+00 +/- -L- (LEFT AND RIGHT)
- STA. 10+05 +/- -Y1 TO STA. 11+90 +/- -Y1 INCLUDING THE TIE IN WITH EXISTING RICHLAND RD. AND STA. 15+45 +/- -Y1- TO STA. 19+68 +/- -Y1
- STA. 10+00 +/- -Y2- TO STA. 10+78 +/- -Y2-
- BEGIN CONSTRUCTION OF DETOUR NO. 2 (-DET2-) UP TO THE EDGE AND ELEVATION OF EXISTING US 321 FROM STA. 83+15 +/- -L- TO STA. 90+73 +/- -L- (SEE CONSTRUCTION PLANS.)
- BEGIN CONSTRUCTION OF DETOUR NO. 3 (-DET3-) UP TO THE EDGE AND ELEVATION OF EXISTING US 321 FROM STA. 301+75 +/- -L- (STA. 10+00 +/- -DET3-) TO STA. 306+20 +/- -L- (STA. 14+47 +/- -DET3-) (SEE CONSTRUCTION PLANS.)
- BEGIN CONSTRUCTION OF DETOUR NO. 4 (-DET4-) UP TO THE EDGE AND ELEVATION OF EXISTING US 321 FROM STA. 313+48 +/- -L- (STA. 10+00 +/- -DET4-) TO STA. 317+46 +/- -L- (STA. 14+27 +/- -DET4-). (SEE CONSTRUCTION PLANS.)

STEP 4 -- USING FLAGGING OPERATIONS AS SHOWN ON SHEET TCP-45, PERFORM THE FOLLOWING:

- COMPLETE THE CONSTRUCTION OF DETOUR NO. 2 (-DET2-) UP TO THE EDGE AND ELEVATION OF EXISTING US 321 FROM STA. 83+15 +/- -L- TO STA. 90+73 +/- -L- (SEE CONSTRUCTION PLANS.)
- WORK IN A CONTINUOUS MANNER TO COMPLETE IN A SINGLE WORK PERIOD THE PLACEMENT OF TEMPORARY PAVEMENT MARKINGS (PAINT) AND MARKERS (SNOWPLOWABLE) FROM STA 83+15 +/- -L- TO STA. 90+73 +/- -L-, PLACE ADVANCE WARNING SIGNS, AND OPEN DETOUR NO. 2 TO TWO LANE - TWO WAY TRAFFIC (SEE SHEET TCP-17).

NOTE: WHENEVER THE WORK OF PHASE I, STEP 5 REQUIRES WIDENING BEYOND EXISTING GUARDRAIL, SEE LOCAL NOTE NO. 2 ON SHEET TCP-3.

STEP 5 -- USING FLAGGING OPERATIONS AS SHOWN ON SHEET TCP-45, INSTALL PORTABLE CONCRETE BARRIER WITH CRASH CUSHIONS ADJACENT TO THE SOUTHBOUND TRAVEL LANE OF THE COMPLETED DETOUR NO. 2 (-DET2-) IN THE FOLLOWING LOCATIONS: (SEE SHEET TCP-17)

- STA. 74+60 +/- -L- TO STA. 78+30 +/- -L-
  - STA. 78+90 +/- -L- TO STA. 86+00 +/- -L-
  - STA. 86+60 +/- -L- TO STA. 89+40 +/- -L-
- NOTE: ANCHOR THE PORTABLE CONCRETE BARRIER FROM STA. 83+00 +/- -L- TO STA. 86+00 +/- -L-.

-- BEHIND BARRIER/AWAY FROM TRAFFIC, INSTALL TEMPORARY SHORING NO. 1 FROM STA. 83+20 +/- -L- TO STA. 86+00 +/- -L- (SEE SHEET TCP-17)

APPROVED: <i>J.W. Woodard</i> DATE: 11/4/04	<b>PROJECT PHASING</b>	
	SCALE: NONE	
	DATE: MAY 2005	
	DWG. BY: DAP	
	DESIGN BY: DAP	
REVIEWED BY: JWW	REVISIONS	

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