

PHASING

NOTES:

REPLACE MARKINGS AND RETURN TRAFFIC TO THE CURRENT TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE. THIS MAY REQUIRE A COMBINATION OF INSTALLATION OF PROPOSED PIPES, TEMPORARY PIPES, STEEL PLATES, AND TEMPORARY MEDIAN AND OUTSIDE DITCHES.

PAVE PROPOSED CONSTRUCTION, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, IN ALL PHASES UNTIL STATED TO INSTALL FINAL LAYER IN THE PHASING.

THE TERM RSD DENOTES "ROADWAY STANDARD DRAWING".

PHASE I (SEE TMP-4 FOR OVERVIEW)

*** REFER TO DETAIL SHEETS TMP-5 THRU TMP-7 ***

STEP 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -L- (US 29/601 / CONCORD PKWY), -EY1- (FLORENCE ST), -EY2- (NC 73 / DAVIDSON HWY), -EY5- & -EY6- (NC 73 / DAVIDSON DR), ACCORDING TO RSD 1101.01.

STEP 2: AWAY FROM TRAFFIC, CONSTRUCT -DET- FROM STA 14+00+/- TO STA 20+70+/- (INCLUDING TEMPORARY BRIDGE). (LN-2)

AWAY FROM TRAFFIC, CONSTRUCT THE TEMPORARY RETAINING WALL LEFT OF -DET- AND AS MUCH AS POSSIBLE OF THE PERMANENT RETAINING WALLS LEFT OF -L-. SHORING 1 MAY BE REQUIRED (SEE TMP-6). (LN-1)

NOTE: TO COMPLETE THE WORK IN STEP 3, PART OF THE EXISTING GUARDRAIL MUST BE REMOVED AND TEMPORARY ANCHORS INSTALLED. THE RIGHT SIDE PCB ALONG -DET- FROM STA 19+50+/- TO STA 20+20+/- CANNOT BE COMPLETED UNTIL TRAFFIC IS SHIFTED IN PHASE II. USE TMA TO PROTECT UNFINISHED PCB UNTIL TRAFFIC IS SHIFTED AND CRASH CUSHION IS INSTALLED.

STEP 3: USING RSD 1101.02 (SHEET 3 OF 15) AS NEEDED, COMPLETE THE FOLLOWING UP TO BUT NOT INCLUDING FINAL LAYER OF SURFACE COURSE:
* WEDGE AND WIDEN -L- FROM STA 25+25+/- TO STA 27+25+/- TO -DET- GRADE AND FEATHER TO EXISTING TO MAINTAIN A SMOOTH GRADE
* CONSTRUCT -DET- FROM STA 11+00+/- TO STA 14+50+/-
* CONSTRUCT -DET- FROM STA 19+70+/- TO -L- STA 27+25+/-

STEP 4: USING RSD 1101.02 (SHEETS 1 & 3 OF 15) AS NEEDED, COMPLETE THE FOLLOWING:
* INSTALL TEMPORARY SIGNAL AT -L- & -EY1-/-EY2-
* INSTALL TEMPORARY SIGNAL AT -L- & -EY5-/-EY6-
* REMOVE EXISTING -EY4- ISLAND AND REPAIR/PAVE FROM -EY4- STA 10+60+/- TO -L- (SBL)

STEP 5: PLACE TEMPORARY PAVEMENT MARKING AND SIGNS ALONG -L- SBL AND -DET- AS SHOWN IN PHASE II (TMP-9 & TMP-10), ACTIVATE TEMPORARY SIGNALS AND SHIFT TRAFFIC TO NEW PATTERN.

USING RSD 1101.02 (SHEET 3 OF 9), COMPLETE INSTALLATION OF -DET- PCB AND CRASH CUSHION.

PHASE II (SEE TMP-8 FOR OVERVIEW)

*** REFER TO DETAIL SHEETS TMP-9 THRU TMP-11 ***

STEP 1: AWAY FROM TRAFFIC, CONSTRUCT THE RETAINING WALLS RIGHT OF -L-. NOTE: SHORING 5 MAY BE REQUIRED TO CONSTRUCT WALL 2.

USING RSD 1101.02 (SHEET 3 OF 15) AS NEEDED, CONSTRUCT THE FOLLOWING:
* WEDGE AND WIDEN -L- FROM STA 11+75+/- TO STA 18+00+/- AND PROVIDE TRANSITION GRADE TO EXISTING NBL FROM STA 17+50+/- TO STA 19+00+/- (LN-4,5)
* TEMPORARY MEDIAN CROSS-OVER FROM -L- STA 16+00+/- TO STA 20+66+/-
* TEMPORARY MEDIAN CROSS-OVER FROM -L- STA 23+47+/- TO STA 27+50+/-
* WEDGE AND WIDEN -L- FROM STA 26+50+/- TO STA 29+50+/- AND PROVIDE TRANSITION GRADE FROM EXISTING NBL (LN-4,5)
* WIDEN -L- FROM STA 29+50+/- TO -EY6- STA 11+42+/-
* REVISE TEMPORARY SIGNAL AT -L- & -EY5-/-EY6- FOR NEW PATTERN

STEP 2: PLACE TEMPORARY PAVEMENT MARKING AND SIGNS ALONG -L- SBL AND NBL AS SHOWN IN PHASE III (TMP-13 & TMP-14), ACTIVATE TEMPORARY SIGNAL AND SHIFT TRAFFIC TO NEW PATTERN.

PHASE III (SEE TMP-12 FOR OVERVIEW)

*** REFER TO DETAIL SHEETS TMP-13 THRU TMP-16 ***

STEP 1: AWAY FROM TRAFFIC, INSTALL SHORING 2 & 3 AND REMOVE EXISTING NB BRIDGE. (LN-2)

AWAY FROM TRAFFIC, CONSTRUCT -L- FROM STA 18+00+/- TO STA 26+50+/- (INCLUDING RIGHT SIDE OF PROPOSED BRIDGE). SHORING 2, 3, 4 & 8 ARE REQUIRED. REFER TO DETAILS TMP-13 & TMP-14. REMOVE SHORING WHEN NO LONGER NEEDED. (LN-2,3)

STEP 2: AWAY FROM TRAFFIC, PLACE TEMPORARY PAVEMENT MARKING ON PROPOSED NBL FROM STA 20+00+/- TO STA 24+50+/- AND INSTALL AS MUCH PCB AS POSSIBLE ALONG PROPOSED NBL. (PCB SHOWN ON TMP-15.) USE TMA AS NEEDED TO PROTECT UNFINISHED PCB. (REFER TO TMP-18 & TMP-19 FOR TEMPORARY PAVEMENT MARKING.)

COMPLETE THE REQUIREMENTS OF PHASE III, STEP 3 IN ONE WEEKEND FROM 10:00 PM FRIDAY TO 6:00 AM THE FOLLOWING MONDAY. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 3: COMPLETE STEPS 3A THRU 3C. REFER TO DETAIL SHEET TMP-15.

3A: USING RSD 1101.02 (SHEETS 1 & 3 OF 15) AS NEEDED, CLOSE THE RIGHT MOST NORTH BOUND LANE OF -L- AND CONSTRUCT THE FOLLOWING:
* -L- FROM STA 17+50+/- TO STA 19+40+/- (NBL)
* -L- FROM STA 25+00+/- TO STA 26+50+/- (NBL)

3B: USING TMA TO PROTECT UNFINISHED PCB, PLACE TEMPORARY PAVEMENT MARKING ON -L- NBL AND SHIFT TRAFFIC TO NEW PATTERN AS SHOWN IN PHASE IV. (SEE TMP-18 & TMP-19.)

3C: COMPLETE INSTALLATION OF PCB AND CRASH CUSHION (-L- STA 18+00+/- TO STA 26+00+/-) AND OPEN BOTH LANES TO TRAFFIC. (SEE TMP-18 & TMP-19.)

PHASE IV (SEE TMP-17 FOR OVERVIEW)

*** REFER TO DETAIL SHEETS TMP-18 THRU TMP-21 ***

STEP 1: AWAY FROM TRAFFIC, REMOVE EXISTING SB BRIDGE. (LN-2)

AWAY FROM TRAFFIC, CONSTRUCT -L- (SBL) FROM STA 18+00+/- TO STA 26+00+/- (INCLUDING LEFT SIDE OF PROPOSED BRIDGE). TEMPORARILY PAVE ACROSS AREA FOR FUTURE ISLAND / MEDIAN. SHORING 6 & 7 ARE REQUIRED. REMOVE SHORING 2, 3, 4 & 8 AS NEEDED. REFER TO DETAILS TMP-18 & TMP-19. (LN-2,3)

STEP 2: USING RSD 1101.02 (SHEET 3 OF 15) AS NEEDED, CONSTRUCT THE FOLLOWING:
* WEDGE & WIDEN -L- FROM STA 13+33+/- TO STA 18+00+/- (SBL) AND CONSTRUCT PROPOSED ISLAND FROM STA 13+33+/- TO STA 16+00+/-.
PROVIDE SMOOTH TRANSITION GRADE TO EXISTING SB LANES. TEMPORARILY PAVE ACROSS AREA FOR FUTURE ISLAND / MEDIAN FROM STA 16+00+/- TO STA 18+00+/- (LN-4)
* WEDGE & WIDEN -L- FROM STA 26+00+/- TO STA 29+50. WIDEN -L- FROM STA 29+50+/- TO STA 30+90+/- (SBL). CONSTRUCT PROPOSED ISLAND FROM STA 28+40+/- TO STA 30+50+/- PROVIDE SMOOTH TRANSITION GRADE TO EXISTING SB LANES. (LN-4)

STEP 3: AWAY FROM TRAFFIC, COMPLETE THE FOLLOWING:
* PLACE TEMPORARY PAVEMENT MARKING, AS MUCH AS POSSIBLE WITHOUT CREATING A CONFLICT WITH EXISTING PATTERN, ON -L- SBL FROM STA 19+00+/- TO STA 24+50+/- (REFER TO TMP-23 & TMP-24.)
* PLACE PCB WITH CRASH CUSHION ALONG LEFT SIDE OF -L- FROM STA 18+50+/- TO STA 26+00+/-.

COMPLETE THE REQUIREMENTS OF PHASE IV, STEPS 4 & 5 IN ONE WEEKEND FROM 10:00 PM FRIDAY TO 6:00 AM THE FOLLOWING MONDAY. (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES.)

STEP 4: USING RSD 1101.02 (SHEET 3 OF 15), CLOSE THE LEFT MOST SOUTH BOUND LANE OF -L- AND CONSTRUCT -L- FROM STA 26+50+/- TO STA 28+00+/- REFER TO DETAIL SHEET TMP-20.

STEP 5: KEEPING SB TRAFFIC IN ONE LANE, SHIFT TO NEW PATTERN AS SHOWN IN INSET ON SHEET TMP-20. WEDGE -L- FROM STA 26+50+/- TO STA 28+00+/- COMPLETE TEMPORARY PAVEMENT MARKING AND OPEN TO TRAFFIC PATTERN AS SHOWN IN PHASE V. (SEE TMP-23 & TMP-24.)

PHASE V (SEE TMP-22 FOR OVERVIEW)

*** REFER TO DETAIL SHEETS TMP-23 THRU TMP-25 ***

STEP 1: AS MUCH AS POSSIBLE AWAY FROM TRAFFIC, COMPLETE THE FOLLOWING:
* REMOVE TEMPORARY -DET- AND -DET- BRIDGE. REMOVE SHORING 6 & 7 AS NEEDED. (LN-2)
* CONSTRUCT REMAINDER OF -L- BRIDGE (LEFT SIDE) (LN-2)
* REMOVE TEMPORARY RETAINING WALL AND TEMPORARY FILL EXPOSING PARTIALLY CONSTRUCTED RETAINING WALL. COMPLETE PROPOSED WALL AND REPAIR PARKING LOT.
* WIDEN -L- FROM STA 18+00+/- TO BRIDGE AND FROM BRIDGE TO STA 27+00+/- (LT)

STEP 2: USING RSD 1101.02 (SHEETS 1 & 3 OF 15) AS NEEDED, COMPLETE THE FOLLOWING:
* -L- SBL FROM STA 13+88+/- TO STA 18+00+/-
* -L- SBL FROM STA 27+00+/- TO STA 28+23+/- & -EY4- FROM STA 10+60+/- TO -L- (SBL) INCLUDING ISLAND

STEP 3: PLACE TEMPORARY PAVEMENT MARKING AS SHOWN IN PHASE VI (TMP-27 & TMP-28) AND SHIFT TRAFFIC TO NEW PATTERN.

PHASE VI (SEE TMP-26 FOR OVERVIEW)

*** REFER TO DETAIL SHEETS TMP-27 AND TMP-28 ***

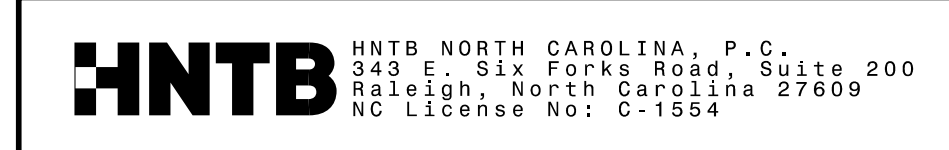
STEP 1: USING RSD 1101.02 (SHEET 3 OF 15) AS NEEDED, REMOVE ALL PCB AND CONSTRUCT ISLANDS &/OR MEDIAN FROM -L- STA 16+00+/- TO STA 28+38+/- INCLUDING BRIDGE MEDIAN WORK.

STEP 2: USING RSD 1101.02 (SHEETS 1 & 3 OF 15) AS NEEDED, PLACE FINAL LAYER OF SURFACE COURSE ON ALL ROADS. PLACE PAVEMENT MARKING AND MARKERS AS SHOWN IN FINAL PAVEMENT MARKING PLANS, ACTIVATE FINAL SIGNALS AND OPEN ALL LANES TO TRAFFIC.

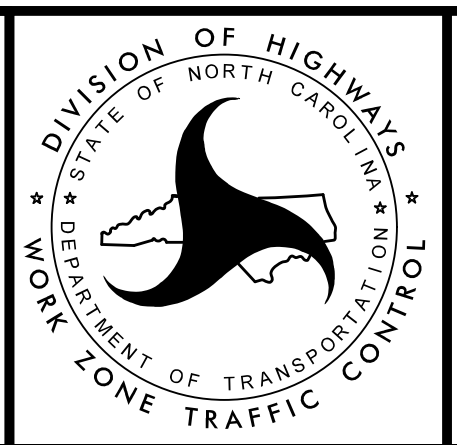
LOCAL NOTES

- LN-1 TEMPORARY RETAINING WALL TIES TO PERMANENT RETAINING WALL AT -L- STA 26+10+/- (LT).
- LN-2 COORDINATE ALL ACTIVITIES AROUND RAILROAD WITH NORFOLK SOUTHERN GENERAL MANAGER. RAILROAD FLAGGER(S) MUST BE PRESENT AT ANY TIME A TRAIN IS EXPECTED WHEN WORK IS OCCURRING AROUND THE RR (UNLESS WORK IS PROTECTED BY A BRIDGE).
- LN-3 REFER TO STRUCTURE PLANS FOR BRIDGE STAGING.
- LN-4 TEMPORARY WEDGING WILL BE NEEDED TO PROVIDE TRANSITION GRADE FROM PROPOSED PAVEMENT / STRUCTURE TO EXISTING PAVEMENT. TRANSITION GRADES SHOULD BE SMOOTH AND SHOULD AVOID PONDING WATER.
- LN-5 RECORD EXISTING PAVEMENT MARKING (ESPECIALLY STOP BARS) PRIOR TO PAVING AND REPLACE IN ORIGINAL LOCATION.

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QA/QC STAGE:
REVIEW:
CONCUR:
REVISE:
VERIFY:



APPROVED: *Rhonda Early*
DATE: 1/8/2015
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
RHONDA B. EARLY
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TRANSPORTATION MANAGEMENT PLAN
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