



# GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
B-1037	TCP-2

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 DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NON-HOLIDAY WEEKENDS FROM FRIDAY 4:00 P.M. TO MONDAY 8:00 A.M. BETWEEN MEMORIAL DAY AND LABOR DAY. HOLIDAY WEEKENDS ARE DEFINED BELOW.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 4:00 P.M. FRIDAY TO 8:00 A.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 4:00 P.M. THE DAY BEFORE INDEPENDENCE DAY AND 8:00 AM THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN BETWEEN THE HOURS OF 4:00 P.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 8:00 A.M. TUESDAY AFTER INDEPENDENCE DAY.

- FOR LABOR DAY, BETWEEN THE HOURS OF 4:00 P.M. FRIDAY AND 8:00 A.M. TUESDAY.

B) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DURATION AND OPERATION
US 221	DO NOT STOP TRAFFIC FOR MORE THAN 30 MINUTES FOR TRAFFIC SHIFTS, DELIVERIES, BLASTING, OPERATIONS, OR OTHER OPERATIONS AS DIRECTED BY THE ENGINEER.

## LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE, 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 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.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS AND 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 WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

## PAVEMENT EDGE DROP OFF REQUIREMENTS

H) 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 AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES 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.

I) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING

"UNEVEN LANES" SIGNS (W8-11) 100 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

## TRAFFIC PATTERN ALTERATIONS

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

## SIGNING

K) INSTALL ADVANCE WORK ZONE WARNING SIGNS NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

L) STATE FORCES WILL BE RESPONSIBLE FOR PROVIDING PERMANENT SIGNING.

M) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

N) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 100 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

## TRAFFIC BARRIER

Q) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRAFFIC CONTROL PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION, PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE/RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRAFFIC CONTROL PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW, BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW, BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

R) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED IMPACT ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

S) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS SHOWN IN THE PLANS.

## TRAFFIC CONTROL DEVICES

T) SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET 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.

U) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

## PAVEMENT MARKINGS AND MARKERS

V) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS SHOWN IN THE PAVEMENT MARKING PLAN.

W) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

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

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	NONE

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

Z) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

## MISCELLANEOUS

AA) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAYS TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION, AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 200 FT AND 100 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

# LOCAL NOTES

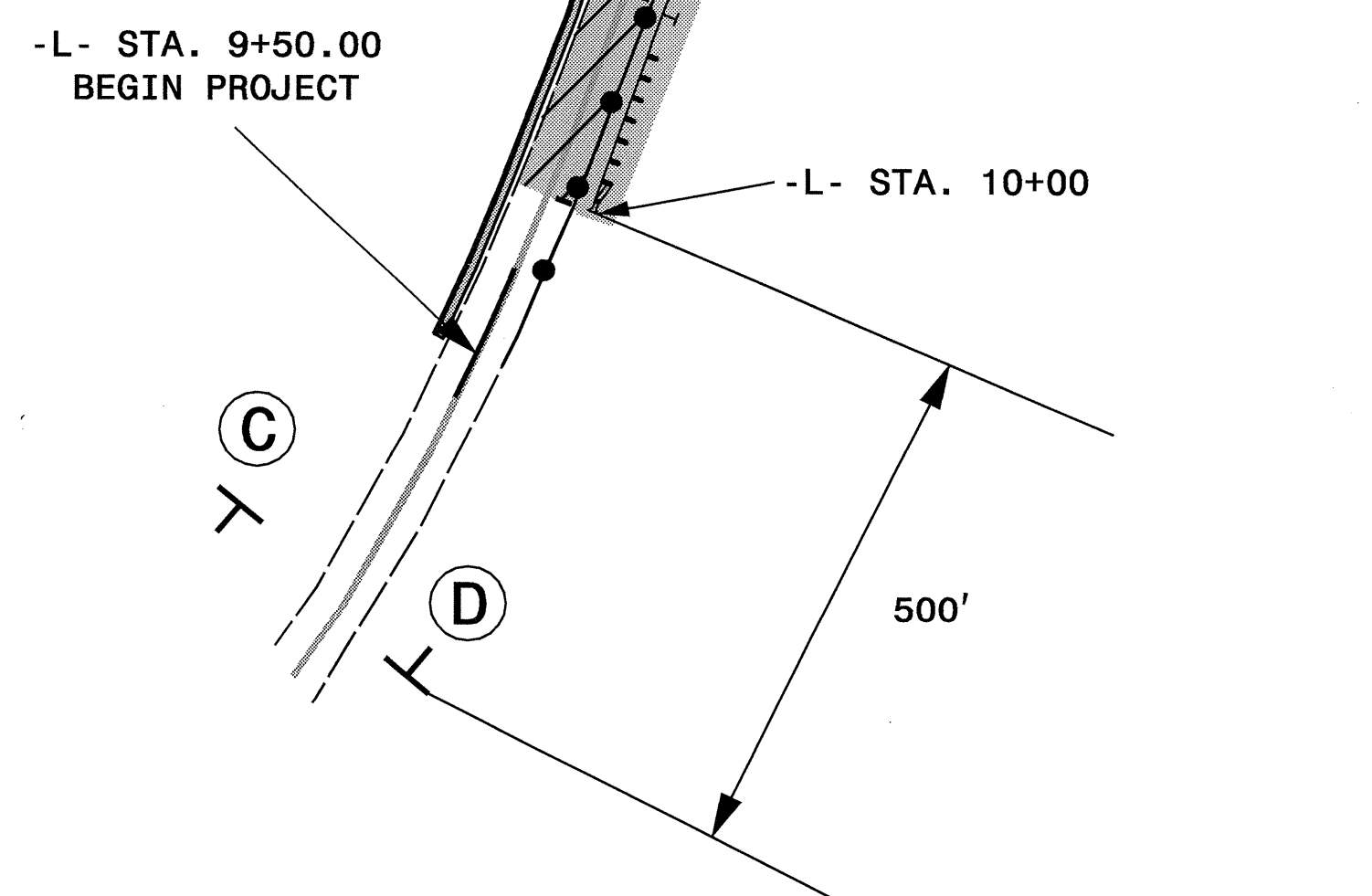
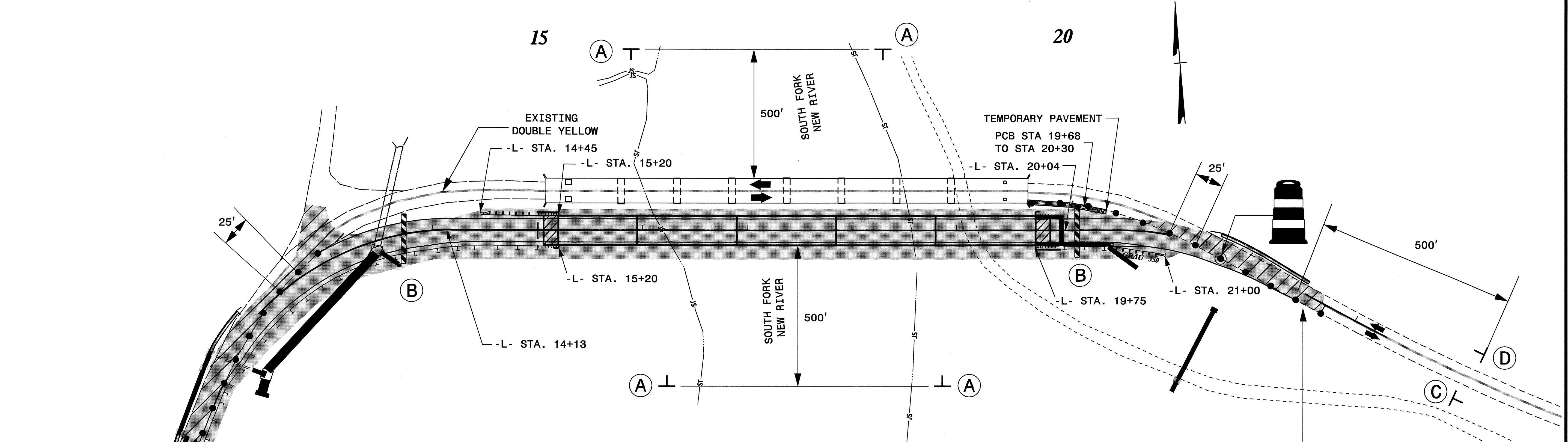
- NOTIFY ASHE COUNTY SCHOOLS AND EMERGENCY SERVICES OF ANY ROAD CLOSINGS OR FLAGGING OPERATIONS.
- MAINTAIN CHESTNUT HILL ROAD (SR 1567) AND ACCESS TO THE GRAVEL ROAD UNDER THE EXISTING AND PROPOSED BRIDGES DURING CONSTRUCTION.
- MAINTAIN THE STRUCTURAL INTEGRITY OF THE NEW RIVER GENERAL STORE.
- INSTALL "BRIDGE CONSTRUCTION AHEAD" SIGNS AT A MINIMUM OF 500 FT. ON EACH SIDE OF THE SOUTH FORK NEW RIVER AS WELL AS EACH SIDE OF THE BRIDGE. IN ADDITION, CONSIDER USING "KEEP RIGHT" AND "KEEP LEFT" SIGNS IF A CAUSEWAY IS USED DURING CONSTRUCTION.
- WEDGE THE EXISTING ROAD TO PROPOSED ELEVATIONS IN ORDER TO MINIMIZE LANE CLOSURES ON US 221.

# LOCAL NOTES FOR ADVANCE WORK ZONE SIGNS

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCED WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- SIGNS SHOWN ARE REQUIRED FOR WORK ZONES THAT WILL REMAIN IN EFFECT OVERNIGHT. FOR SHORT-TERM DAILY MAINTENANCE TYPE OPERATIONS, THIS SIGNING APPLICATION IS OPTIONAL; MAY USE ONLY APPLICABLE ROADWAY STANDARD DRAWINGS INSTEAD. HOWEVER, IF THIS SIGNING APPLICATION IS USED, SIGNS MAY BE PORTABLE MOUNTED.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- USE 3LB STEEL U-CHANNEL POST OR 4" X 4" WOOD POST FOR ALL WORK ZONE SIGNS. 3LB STEEL U-CHANNEL POSTS MUST MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 1094-1(B), MAY BE GALVANIZED STEEL, OR MAY BE PAINTED GREEN BY THE POST MANUFACTURER. SQUARE STEEL TUBING POSTS HAVING EQUIVALENT STRENGTH OF THE 3 LB STEEL U-CHANNEL POST ARE ALSO ACCEPTABLE FOR USE. ERECT SIGNS PER ROADWAY STANDARD DRAWING 1110.01. PAYMENT FOR WOOD POSTS, 3LB STEEL U-CHANNEL AND SQUARE STEEL TUBING POSTS WITH SIGNS WILL BE MADE ACCORDING TO STANDARD SPECIFICATION "WORK ZONE SIGNS" SECTION 1110.
- WHEN NECESSARY, USE SPLICING IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1110.01. REMOVE ENTIRE POST WHEN REMOVING SIGNS WITH SPLICED POSTS.
- DO NOT BACK BRACE SIGN SUPPORTS.

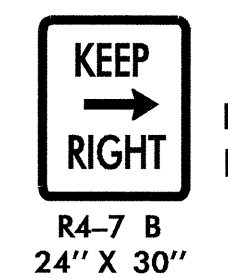
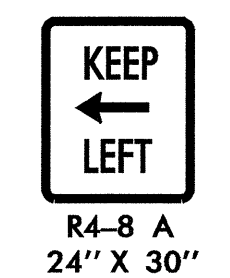
APPROVED: <i>Jessica D. Kuster</i> DATE: 12/2/08	<b>PROJECT NOTES</b>	
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SCALE: NONE	DATE: 06/08	REVISIONS
DWG. BY: SDM	DESIGN BY: SDM	
REVIEWED BY: JDK		



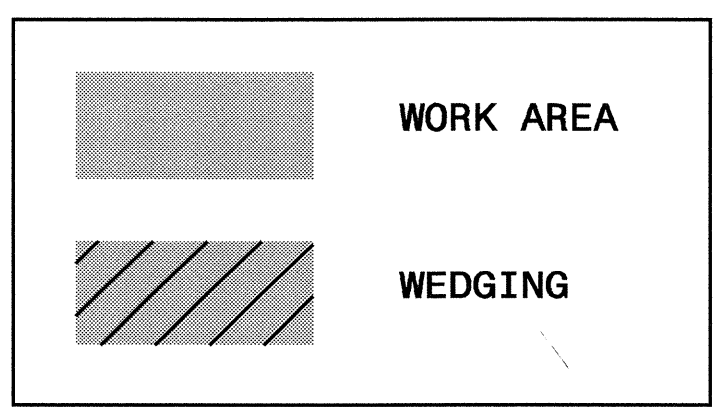
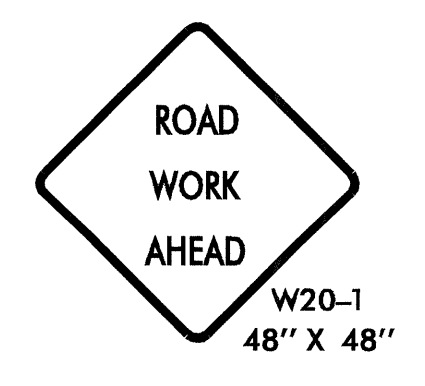
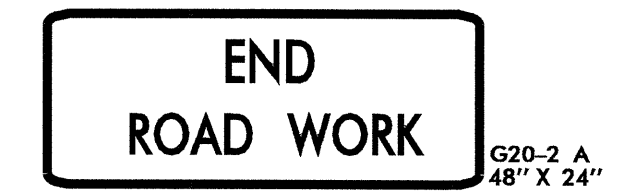
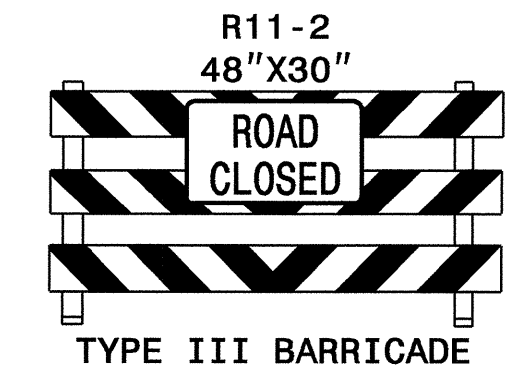


**PHASE I**

- STEP 1: INSTALL ADVANCE WARNING SIGNS, DRUMS, AND BARRICADES AS SHOWN ON SHEET TCP-3. (SEE LOCAL NOTES 1 & 4)
- STEP 2: CONSTRUCT TEMPORARY PAVEMENT ALONG THE SOUTH SIDE OF THE EXISTING ROADWAY FROM -L- STA 19+67 TO STA 20+43. INSTALL ANCHORED PORTABLE CONCRETE BARRIER AND CRASH CUSHION.
- STEP 3: USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 9 AND FLAGGERS AS NEEDED: (SEE LOCAL NOTES 2 & 3)
- CONSTRUCT THE PROPOSED BRIDGE, ROADWAY, AND DRAINAGE FROM -L- STA. 14+13 TO -L- STA. 20+04 UP TO BUT NOT INCLUDING THE FINAL SURFACE LAYER.
  - BUILD UP TO THE EDGE AND ELEVATION OF THE EXISTING ROADWAY FROM -L- STA. 9+50 TO -L- STA. 14+13 AND FROM -L- STA. 20+04 TO -L- STA. 22+44, INCLUDING DRAINAGE AND SHOULDER BERM GUTTER.
  - INSTALL GUARDRAIL ON THE RIGHT SIDE OF -L- FROM STA. 10+00 TO STA. 15+20 AND FROM STA. 19+75 TO STA. 21+00.
  - INSTALL GUARDRAIL ON THE LEFT SIDE OF -L- ONLY FROM STA. 14+45 TO STA. 15+20.
- USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 9 AND FLAGGERS AS NEEDED COMPLETE STEP 3 IN A CONTINUOUS MANNER: (SEE LOCAL NOTES 2 & 3)
- STEP 4: -PUT TRAFFIC INTO A 1-LANE, 1-WAY PATTERN ON THE LEFT SIDE OF THE EXISTING ROADWAY.
- COMPLETE CONSTRUCTION AND WEDGE THE RIGHT SIDE OF -L- FROM STA. 10+00 TO STA. 14+13 AND FROM STA. 20+04 TO STA. 22+68 IN THE AREAS SHOWN ON TCP-3. (SEE LOCAL NOTE 5)
  - SWITCH TRAFFIC TO A 1-LANE, 1-WAY PATTERN ON THE RIGHT SIDE OF THE NEW ALIGNMENT AND MOVE DRUMS AND BARRICADES TO THE LOCATIONS SHOWN ON TCP-4.
  - WEDGE THE REMAINING PORTIONS OF -L- AND INSTALL REMAINING GUARDRAIL FROM STA. 19+75 TO STA. 20+38 AS SHOWN ON TCP-4, REMOVING THE CRASH CUSHION AS NECESSARY. REMOVE PORTABLE CONCRETE BARRIER.
  - PLACE TEMPORARY PAVEMENT MARKINGS PA (WHITE EDGELINE) AND PI (YELLOW DOUBLE CENTER) ON THE NEW ALIGNMENT FROM -L- STA. 9+50 TO -L- STA. 22+44. (SCHEDULE ON TCP-1)
  - BY THE END OF THE WORK DAY TRAFFIC SHALL BE SHIFTED INTO A 2-LANE, 2-WAY PATTERN ON THE NEW ALIGNMENT.



(OPTIONAL AS DIRECTED BY ENGINEER)



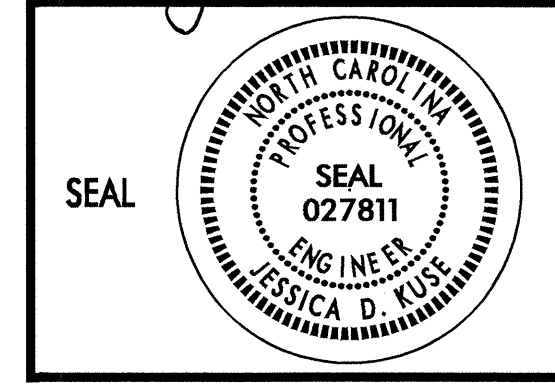
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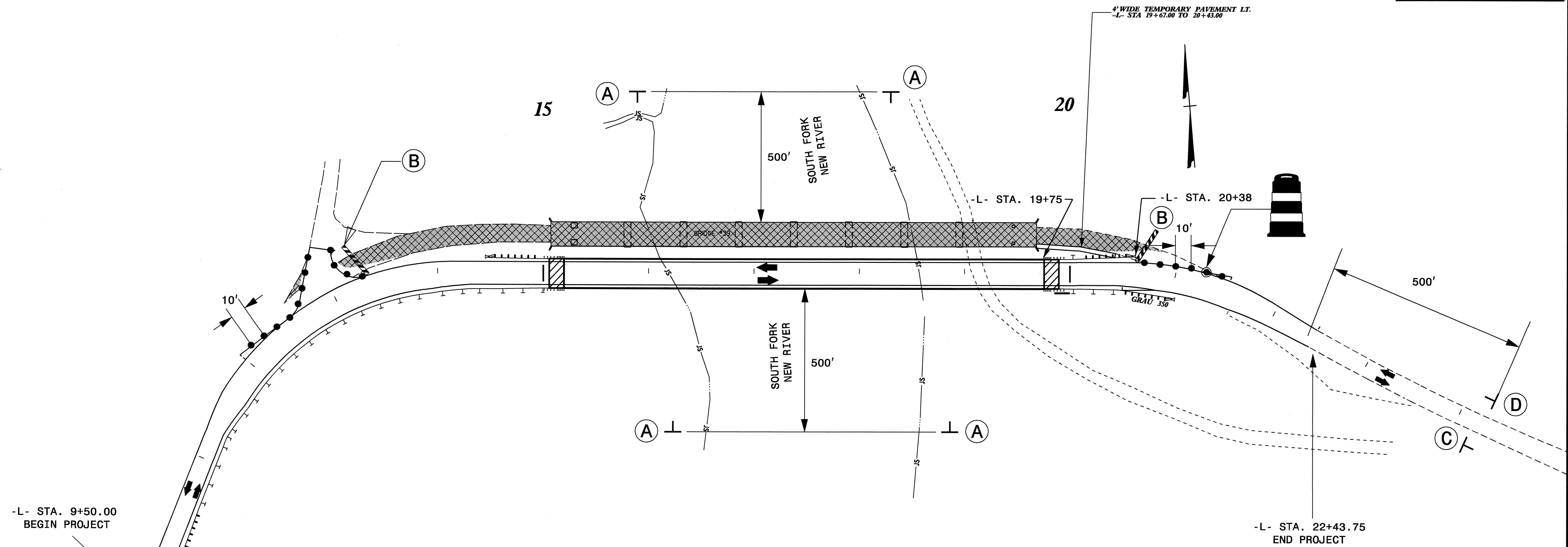
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APPROVED: *Josca Kusi* DATE: 06/19/09



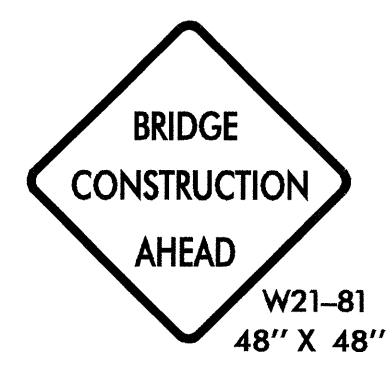
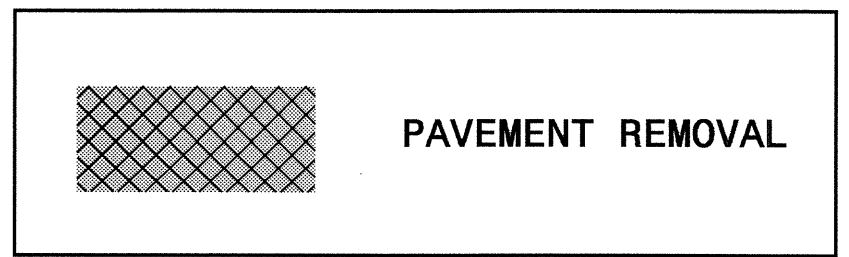
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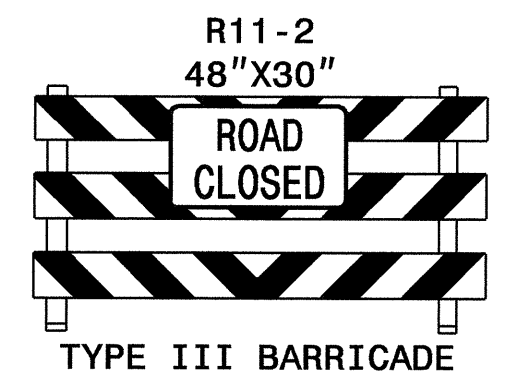


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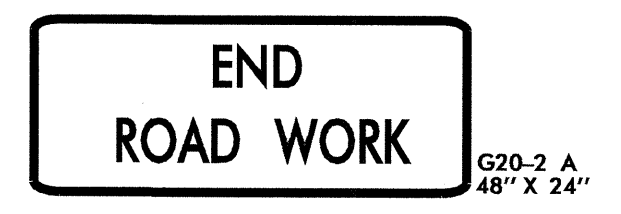
- STEP 1: REMOVE THE OLD BRIDGE AND ASPHALT AS SHOWN ABOVE AND ON ROADWAY PLANS. (SEE LOCAL NOTES 2 & 3)
- STEP 2: USING ROADWAY STANDARD DRAWING 1101.02 SHEET 1 OF 9 AND FLAGGERS AS NEEDED COMPLETE THE FOLLOWING: (SEE LOCAL NOTE 2)
- PLACE THE FINAL SURFACE LAYER ON THE PROJECT.
  - PLACE FINAL PAVEMENT MARKINGS ON THE PROJECT.
- STEP 3: REMOVE DRUMS AND BARRICADES AND THEN REMOVE ADVANCE WARNING SIGNS.



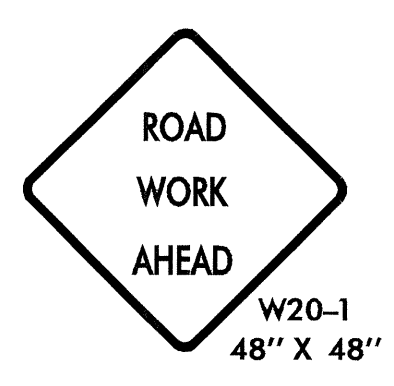
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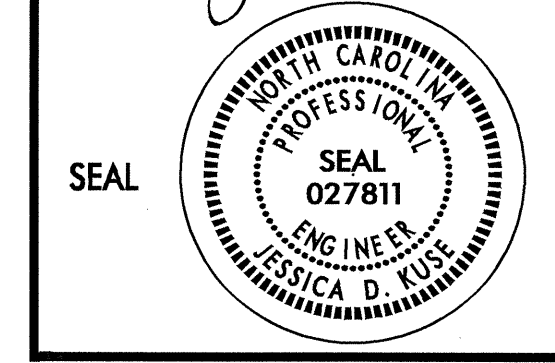


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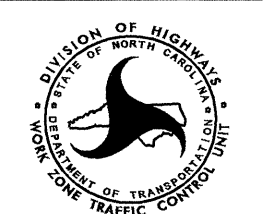
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APPROVED: *Jessica D. Kust* DATE: 7/19/09



**PHASE II**

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REVISIONS	

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