

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 ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

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 FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

**TRAFFIC CONTROL DEVICES**

S) WHEN LANE CLOSURES ARE NOT IN EFFECT 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. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

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

U) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

**PAVEMENT MARKINGS AND MARKERS**

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

ROAD NAME	MARKING	MARKER
1. ALL ROADS	PAINT	TEMPORARY RAISED

\*NOTE: AS DIRECTED BY THE ENGINEER THE CONTRACTOR SHALL INSTALL SNOWPLOWABLE RAISED PAVEMENT MARKERS ON ALL TEMPORARY AND/OR PROPOSED PAVEMENT THAT WILL BE OPEN TO TRAFFIC BETWEEN NOVEMBER 1ST AND MARCH 31 TIME FRAME.

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

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

Z) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE DRUMS TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

**MISCELLANEOUS**

AA) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

BB) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S 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) 500 FT AND 500 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

CC) MAINTAIN ACCESS TO ALL ROADS AND DRIVEWAYS PER THE DISCRETION OF THE ENGINEER.

DD) CLOSE NC 105 TO BOTH NORTHBOUND AND SOUTHBOUND TRAFFIC AND ANY INTERSECTING -Y- LINES DURING ALL BLASTING OPERATIONS INCLUDING THE REMOVAL OF DEBRIS FROM THE ROADWAY CREATED BY THE BLAST. THE DAYS AND TIMES THAT NC 105 MAY BE CLOSED FOR BLASTING OPERATIONS & DEBRIS REMOVAL ARE AS FOLLOWS (SEE INTERMEDIATE CONTRACT TIME AND LIQUIDATED DAMAGES):

NOTE: THE TIMES AND DAYS LISTED BELOW SHALL ONLY BE UTILIZED FOR BLASTING OPERATIONS AND DEBRIS REMOVAL FROM THAT OPERATION.

NOTE: AS DIRECTED BY THE ENGINEER BLASTING OPERATIONS MAY BE CONDUCTED OUTSIDE THE TIME FRAMES LISTED BELOW ONLY IF THE SPECIFIC BLASTING OPERATION WILL NOT IMPACT TRAFFIC ON NC 105 AND ANY INTERSECTING -Y- LINE.

DAY	TIME AND DURATIONS
MONDAY - THURSDAY	BETWEEN THE HOURS OF 11:00 A.M. - 2:00 P.M., 30 MINUTES IN THE MORNING, 30 MINUTES IN THE AFTERNOON

PERFORM BLASTING OPERATIONS IN THE FOLLOWING SEQUENCE:

A. NOTIFY THE ENGINEER 10 BUSINESS DAYS PRIOR TO THE FIRST BLASTING OPERATION ON THE PROJECT. NOTIFY THE ENGINEER 2 BUSINESS DAYS PRIOR TO SUBSEQUENT BLASTING OPERATIONS.

B. ACTIVATE CHANGEABLE MESSAGE SIGNS ALONG NC 105 AND SR 1112 2 DAYS IN ADVANCE OF THE BLASTING OPERATION TO NOTIFY THE MOTORING PUBLIC OF THE UPCOMING OPERATION.

C. CLOSE NC 105 AND INTERSECTING -Y- LINES WITHIN THE BLASTING ZONE TO TRAFFIC IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1101.03, SHEET 8 OF 9.

D. PERFORM BLASTING OPERATION AND DEBRIS REMOVAL.

E. OPEN NC 105 AND INTERSECTING -Y- LINES TO TRAFFIC.

F. IMMEDIATELY DEACTIVATE THE CHANGEABLE MESSAGE SIGNS.

EE) IN PREPARATION FOR PAVING OPERATIONS REMOVE EXISTING SNOWPLOWABLE/TEMPORARY RAISED PAVEMENT MARKERS AND REPAIR THE DAMAGED PAVEMENT AS DIRECTED BY THE ENGINEER. DISPOSE OF THE PAVEMENT MARKERS IN A SUITABLE MANNER AS APPROVED BY THE ENGINEER. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK, AS SUCH WORK WILL BE CONSIDERED INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.

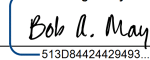
FF) ALL STATIONS MAY OR MAY NOT BE APPROXIMATE (+/-).


GG) MOUNT 45 MPH ADVISORY SPEED PLAQUES (W13-1, BLACK ON ORANGE) BELOW THE "BEGIN ROAD WORK" SIGNS & THE "ROAD WORK AHEAD" SIGNS ON -L- (NC 105) AND ALL -Y- LINES. IN ADDITION, MOUNT 45 MPH ADVISORY SPEED PLAQUES (W13-1, BLACK ON ORANGE) BELOW ALL "LEFT/RIGHT LANE CLOSED AHEAD" SIGNS (W20-5) AND "LEFT/RIGHT LANE CLOSED" SIGNS (W20-5) WHEN UTILIZING LANE CLOSURES ON -L- (NC 105).

6/11/2021 P:\2018\1813101\LR-2566BA\Traffic\WZTC\TMP\Sheets\TONR-2566BA\_TMP\_01C\_GN.dgn User:AHayes

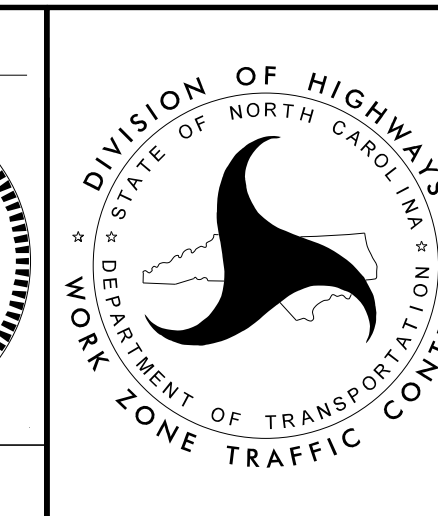
**ETHERILL ENGINEERING**  
1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

APPROVED:   
DATE: 7/22/2021



**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



**GENERAL NOTES**