STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

GUILFORD COUNTY

LOCATION: BRIDGE NO. 400151 OVER CHOCOLATE CREEK ON NC 62

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE

PROJECT LENGTH

LENGTH ROADWAY PROJECT = 0.128 MILES
LENGTH STRUCTURE PROJECT = 0.023 MILES
TOTAL LENGTH OF PROJECT = 0.151 MILES

DESIGN DATA

ADT 2013 = 3080 VPD
ADT 2033 = 5280 VPD
T = 8%
V = 60 MPH

GRADING, PAVING, DRAINAGE, AND STRUCTURE

PLAN SCALE: 1" = 50' 0"
PROFILE SCALE: 1" = 50' 0"

ROADWAY DESIGN ENGINEER
JEFFREY W. MOORE, P.E.
PROJECT ENGINEER
ELIZABETH W. LYNCH, P.E.

NCDOT CONTRACT:
TIM POWERS, P.E.
DIVISION BRIDGE PROGRAM MANAGER
DIVISION 7

NC 62 - L - Sta. 20+95.00
BEGIN PROJECT
TO FERGUSON RD

END PROJECT 17BP.7.R.42

BEGIN BRIDGE - L - Sta. 15+70.00
TO ALUMINE CHURCH RD

END BRIDGE - L - Sta. 16+90.00
TO FERGUSON RD

CHOCOLATE CREEK
NOTES:
1. MILL NOTCH TO KEY IN 59250 FROM
   - L- STA 15+000 TO STA 15+300
   \ AND - L- STA 20+000 TO STA 20+9500
2. WIDEN SHOULDER WIDTH BY 3' AT
   (QUADRANT LOCATIONS)
3. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS
   OTHERWISE INDICATED

TYPICAL SECTION NO. 1
- L- STA 15+000 TO 15+700 (BEGIN BRIDGE)
- L- STA 16+9000 (END BRIDGE) TO 20+9500

TYPICAL SECTION NO. 1A
USE IN CONJUNCTION WITH TYPICAL SECTION 1
- L- STA 14+600 TO 14+700 (LT)
- L- STA 16+100 TO 16+700 (LT)
- L- STA 18+100 TO 18+220 (RT)

BRIDGE TYPICAL SECTION NO. 1
- L- STA 15+000 TO 16+9000

PAVEMENT SCHEDULE

C1  PROPAV. APPROX. 32" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT
   AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED
   IN LAYERS NOT LESS THAN 1.5" IN DEPTH OR GREATER THAN 2" IN DEPTH.

C2  PROPAV. APPROX. 32" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT
   AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED
   IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5.5" IN DEPTH.

C3  PROPAV. APPROX. 32" ASPHALT CONCRETE BASE COURSE TYPE B25.0B, AT
   AN AVERAGE RATE OF 456 LBS. PER SQ. YD.

C4  PROPAV. APPROX. 32" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0B, AT
   AN AVERAGE RATE OF 342 LBS. PER SQ. YD.

C5  PROPAV. APPROX. 32" ASPHALT CONCRETE BASE COURSE TYPE B25.0B, AT
   AN AVERAGE RATE OF 168 LBS. PER SQ. YD.

C6  PROPAV. APPROX. 32" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0B, AT
   AN AVERAGE RATE OF 168 LBS. PER SQ. YD.

C7  PROPAV. APPROX. 32" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT
   AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED
   IN LAYERS NOT LESS THAN 2.5" IN DEPTH OR GREATER THAN 4" IN DEPTH.

C8  PROPAV. APPROX. 32" ASPHALT CONCRETE BASE COURSE TYPE B25.0B, AT
   AN AVERAGE RATE OF 168 LBS. PER SQ. YD.

C9  PROPAV. APPROX. 32" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0B, AT
   AN AVERAGE RATE OF 168 LBS. PER SQ. YD.

C10  PROPAV. APPROX. 32" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT
   AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED
   IN LAYERS NOT LESS THAN 1.5" IN DEPTH OR GREATER THAN 2" IN DEPTH.

C11  PROPAV. APPROX. 32" ASPHALT CONCRETE BASE COURSE TYPE B25.0B, AT
   AN AVERAGE RATE OF 168 LBS. PER SQ. YD.

C12  PROPAV. APPROX. 32" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0B, AT
   AN AVERAGE RATE OF 168 LBS. PER SQ. YD.

C13  PROPAV. APPROX. 32" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT
   AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED
   IN LAYERS NOT LESS THAN 2.5" IN DEPTH OR GREATER THAN 4" IN DEPTH.

C14  PROPAV. APPROX. 32" ASPHALT CONCRETE BASE COURSE TYPE B25.0B, AT
   AN AVERAGE RATE OF 168 LBS. PER SQ. YD.

C15  PROPAV. APPROX. 32" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0B, AT
   AN AVERAGE RATE OF 168 LBS. PER SQ. YD.

C16  PROPAV. APPROX. 32" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT
   AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED
   IN LAYERS NOT LESS THAN 2.5" IN DEPTH OR GREATER THAN 4" IN DEPTH.

C17  PROPAV. APPROX. 32" ASPHALT CONCRETE BASE COURSE TYPE B25.0B, AT
   AN AVERAGE RATE OF 168 LBS. PER SQ. YD.

C18  PROPAV. APPROX. 32" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0B, AT
   AN AVERAGE RATE OF 168 LBS. PER SQ. YD.

C19  PROPAV. APPROX. 32" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT
   AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED
   IN LAYERS NOT LESS THAN 2.5" IN DEPTH OR GREATER THAN 4" IN DEPTH.
ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN “ROADWAY STANDARD DRAWINGS” – PROJECT SERVICES UNIT – N.C. DEPARTMENT OF TRANSPORTATION – RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<table>
<thead>
<tr>
<th>STD. NO.</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1101.03</td>
<td>TEMPORARY ROAD CLOSURES</td>
</tr>
<tr>
<td>1110.01</td>
<td>STATIONARY WORK ZONE SIGNS</td>
</tr>
<tr>
<td>1145.01</td>
<td>BARRICADES</td>
</tr>
</tbody>
</table>

MANAGEMENT STRATEGIES

CONSTRUCTION SUMMARY:
PROPOSED BRIDGE REPLACEMENT WILL BE CONSTRUCTED AWAY FROM TRAFFIC USING A ROAD CLOSURE AND DETOUR ROUTE.

GENERAL NOTES

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.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

B) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
C) PROVIDE PERMANENT SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.
D) PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTES AS SHOWN IN THE TRAFFIC CONTROL PLANS.
E) COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
F) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

G) PLACE TYPE III BARRICADES, WITH “ROAD CLOSED” SIGN #11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

PAVEMENT MARKINGS AND MARKERS

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

PHASING

STEP 1: USING ROADWAY STANDARD DRAWING NUMBER 1101.03, SHEET 1 OF 9, AND SHEET TMP-2, PERFORM THE FOLLOWING:
- INSTALL ALL ROAD CLOSURE AND DETOUR SIGNING, INCLUDING BARRICADES
- IMPLEMENT A TEMPORARY Closure OF NC 62 USING A DETOUR ALONG SR 1055 (ALAMANCE CHURCH RD), SR 3122 (GARRETT STORE RD), AND SR 3121 (FERGUSON RD). ALLOW LOCAL TRAFFIC ACCESS ALONG NC 62 TO APPROXIMATELY 0.03 MILES WEST AND 0.1 MILES EAST OF BRIDGE #151 (JUST AFTER THE FINAL DRIVEWAYS PRIOR TO THE BRIDGE).

STEP 2: REMOVE EXISTING BRIDGE #151 AND CONSTRUCT THE PROPOSED BRIDGE AND APPROACHES AS SHOWN IN THE CONSTRUCTION PLANS.

STEP 3: INSTALL ALL FINAL PAVEMENT MARKINGS.

STEP 4: REMOVE ALL TRAFFIC CONTROL SIGNING AND DEVICES AND RE-OPEN NC 62 TO THE FINAL TRAFFIC PATTERN.
TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)

NOTES

USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

INITIALLY APPLY 3.5 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.

NOT TO SCALE
# Soil Stabilization Timeframes

<table>
<thead>
<tr>
<th>Site Description</th>
<th>Stabilization Time</th>
<th>Timeframe Exceptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perimeter Dikes, Swales, Ditches and Slopes</td>
<td>7 Days</td>
<td>None</td>
</tr>
<tr>
<td>High Quality Water (HQW) Zones</td>
<td>7 Days</td>
<td>None</td>
</tr>
<tr>
<td>Slopes Steeper than 3:1</td>
<td>7 Days</td>
<td>IF slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.</td>
</tr>
<tr>
<td>Slopes 3:1 or Flatter</td>
<td>14 Days</td>
<td>7 Days for slopes greater than 50' in length.</td>
</tr>
<tr>
<td>All other areas with slopes flatter than 4:1</td>
<td>14 Days</td>
<td>NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.</td>
</tr>
</tbody>
</table>
PLANTING DETAILS
SEEDLING / LINER BARERoot PLANTING DETAIL

HEALING IN
1. Locate a healing-in site in a shady, well-protected area.

DIBBLE PLANTING METHOD USING THE KBC PLANTING BAR

2. Excavate a flat-bottom trench 12 inches deep and provide drainage.

3. Bed the trench with 2 inches well-rotted sawdust. Place a 2-inch layer of well-rotted sawdust at a sloping angle at one end of the trench.

DIBBLE PLANTING METHOD

4. Place a single layer of plants against the sloping end so that the root collar is at ground level.

5. Place a 2-inch layer of well-rotted sawdust at a sloping angle.

6. Plant the seedlings 12 inches deep and provide drainage.

PLANTING NOTES:

1. Insert planting bar at one end of the trench.

2. Excavate a flat-bottom trench 12 inches deep and provide drainage.

3. Insert planting bar and fill with sawdust maintaining a sloping angle.

4. Pull handle of bar toward planter, firming soil at bottom.

5. Place 2-inch layer of well-rotted sawdust at a sloping angle.

6. Place sawdust over the roots maintaining a sloping angle.

REFORESTATION

TREE REFORESTATION SHALL BE PLANTED 6 FT. TO 10 FT. ON CENTER, RANDOM SPACING, AVERAGING 8 FT. ON CENTER, APPROXIMATELY 680 PLANTS PER ACRE.

REFORESTATION DETAIL SHEET

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