STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
CASWELL COUNTY

LOCATION: BRIDGE NO. 160047 OVER HOGANS CREEK
ON SR 1301 (QUICK RD)

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

TIPPING DATE: MARCH 15, 2011
LETTER DATE: MARCH 15, 2011

RIGHT OF WAY DATE: MARCH 15, 2011
LETTER DATE: MARCH 15, 2011

NCDOT DIVISION 7
WINTER CONSTRUCTION

JIMMY L. TERRY JR.
PROJECT ENGINEER
PROJECT NUMBER: S-202666
TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.

ISOMETRIC VIEW

CROSS SECTION VEE DITCH

CROSS SECTION TRAPEZOIDAL DITCH

ELEVATION VIEW
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL WATTLE IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS. 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 WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

INSTALL TIEBACKS IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.
## 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 HQW zones.</td>
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