STABILIZATION REQUIREMENTS:

(4-30-2019)

Stabilization for this project shall comply with the time frame guidelines as specified by the NCG-010000 general construction permit effective April 1, 2019 issued by the North Carolina Department of Environmental Quality Division of Water Resources. Temporary or permanent ground cover stabilization shall occur within 7 calendar days from the last land-disturbing activity, with the following exceptions in which temporary or permanent ground cover shall be provided in 14 calendar days from the last land-disturbing activity:

- Slopes between 2:1 and 3:1, with a slope length of 10 ft. or less
- Slopes 3:1 or flatter, with a slope of length of 50 ft. or less
- Slopes 4:1 or flatter

The stabilization timeframe for High Quality Water (HQW) Zones shall be 7 calendar days with no exceptions for slope grades or lengths. High Quality Water Zones (HQW) Zones are defined by North Carolina Administrative Code 15A NCAC 04A.0105 (25). Temporary and permanent ground cover stabilization shall be achieved in accordance with the provisions in this contract and as directed.

SEEDING AND MULCHING:

The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone, shall be as stated below. During periods of overlapping dates, the kind of seed to be used shall be determined. All rates are in pounds per acre.

Shoulder and Median Areas

<table>
<thead>
<tr>
<th>August 1 - June 1</th>
<th>May 1 - September 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>20#</td>
<td>20#</td>
</tr>
<tr>
<td>Kentucky Bluegrass</td>
<td>Kentucky Bluegrass</td>
</tr>
<tr>
<td>75#</td>
<td>75#</td>
</tr>
<tr>
<td>Hard Fescue</td>
<td>Hard Fescue</td>
</tr>
<tr>
<td>25#</td>
<td>10#</td>
</tr>
<tr>
<td>Rye Grain</td>
<td>German or Browntop Millet</td>
</tr>
<tr>
<td>500#</td>
<td>500#</td>
</tr>
<tr>
<td>Fertilizer</td>
<td>Fertilizer</td>
</tr>
<tr>
<td>4000#</td>
<td>4000#</td>
</tr>
<tr>
<td>Limestone</td>
<td>Limestone</td>
</tr>
</tbody>
</table>

Areas Beyond the Mowing Pattern, Waste and Borrow Areas:

<table>
<thead>
<tr>
<th>August 1 - June 1</th>
<th>May 1 - September 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>100#</td>
<td>100#</td>
</tr>
<tr>
<td>Tall Fescue</td>
<td>Tall Fescue</td>
</tr>
<tr>
<td>15#</td>
<td>15#</td>
</tr>
<tr>
<td>Kentucky Bluegrass</td>
<td>Kentucky Bluegrass</td>
</tr>
<tr>
<td>30#</td>
<td>30#</td>
</tr>
<tr>
<td>Hard Fescue</td>
<td>Hard Fescue</td>
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<td>25#</td>
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<tr>
<td>Fertilizer</td>
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<tr>
<td>4000#</td>
<td>4000#</td>
</tr>
<tr>
<td>Limestone</td>
<td>Limestone</td>
</tr>
</tbody>
</table>

Approved Tall Fescue Cultivars
06 Dust
2nd Millennium
3rd Millennium
Apache III
Avenger
Barlexas
Barlexas II
Bar Fa
Barrera
Barrington
Barrobusto
Barvado
Biltmore
Bingo
Bizem
Blackwatch
Blade Runner II
Bonsai
Braveheart
Bravo
Bullseye
Cannavaro
Catalyst
Cayenne
Cessane Rz
Chipper
Cochise IV
Constitution
Corgi
Corona
Coyote
Darlington
Davinci
Desire
Dominion
Dynamic
Dynasty
Endeavor

Escalade
Essential
Everygreen 2
Falcon IV
Falcon NG
Falcon V
Faith
Fat Cat
Festnova
Fidelity
Finelawn Elite
Finelawn Xpress
Finesse II
Firebird
Firecracker LS
Firenza
Five Point
Focus
Fort
Garrison
Gazelle II
Gold Medallion
Grande 3
Greenbrooks
Greenkeeper
Gremlin
Greystone
Guardian 21
Guardian 41
Hemi
Honky Tonk
Hot Rod
Hunter
Inferno
Innovator
Integrity
Jaguar 3
Jamboree
Justice
Kalahari
Kitty Hawk 2000
Legitimate
Lexington
LSD
Magellan
Matador
Millennium SRP
Monet
Mustang 4
Ninja 2
Ol’ Glory
Olympic Gold
Padre
Patagonia
Pedigree
Picasso
Piedmont
Plantation
Prospects 5301
Prospect
Pure Gold
Quest
Raptor II
Rebel Exeda
Rebel Sentry
Rebel IV
Regiment II
Regenerate
Rendition
Rhambler 2 SRP
Rembrandt
Reunion
Riverside
Rocket
Scorpion
Serengeti
Shelby
Sheridan
Signia
Silver Hawk
Sliverstar
Shenandoah Elite
Sidewinder
Skyline
Solar
Southern Choice II
Speedway
Spyder LS
Sunset Gold
Tacroa
Tahoe II
Talladega
Trio
Terrano
Titan ltd
Titanium LS
Tracer
Traverse SRP
Tulsa Time
Turbo
Turbo RZ
Tuxedo RZ
Ultimate
Venture
Watchdog
Wolfpack II
Xtremegreen

Approved Kentucky Bluegrass Cultivars:

4-Season
Alexa II
America
Apollo

Blue Velvet
Blueberry
Boomerang
Brilliant
Gladstone
Granite
Hampton
Harmonie
Quantum Leap
Rambo
Rhapsody
Rhythm
Arcadia       Cabernet       Impact       Rita
Aries         Champagne     Jefferson     Royce
Armada        Champlain     Juliet        Rubicon
Arrow         Chicago II    Jump Start    Rugby II
Arrowhead     Corsair       Keeneland     Shiraz
Aura          Courtyard     Langara       Showcase
Avid          Delight       Liberato      Skye
Award         Diva          Madison       Solar Eclipse
Awesome       Dynamo        Mercury       Sonoma
Bandera       Eagleton      Midnight      Sorbonne
Barduke       Emblem        Midnight II  Starburst
Barnique      Empire        Moon Shadow   Sudden Impact
Baroness      Enviicta      Moonlight SLT Total Eclipse
Barrister     Everest       Mystere       Touche
Barvette HGT  Everglade     Nu Destiny    Tsunami
Bedazzled     Excursion     NuChicago    Unique
Belissimo     Freedom II    NuGlade       Valor
Bewitched     Freedom III   Odyssey       Voyager II
Beyond        Front Page    Perfection    Washington
Blacksburg II Futurity      Pinot         Zinfandel
Blackstone    Gaelic        Princeton 105
Blue Note     Ginney II     Prosperity

Approved Hard Fescue Cultivars:

Aurora II     Eureka II     Oxford        Scaldis II
Aurora Gold   Firefly       Reliant II    Spartan II
Berkshire     Granite       Reliant IV    Stonehenge
Bighorn GT    Heron         Rescue 911
Chariot       Nordic        Rhino

On cut and fill slopes 2:1 or steeper add 20# Sericea Lespedeza January 1 - December 31.

Fertilizer shall be 10-20-20 analysis. A different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis and as directed.

**TEMPORARY SEEDING:**

Fertilizer shall be the same analysis as specified for *Seeding and Mulching* and applied at the rate of 400 pounds and seeded at the rate of 50 pounds per acre. German Millet, or Browntop Millet shall be used in summer months and rye grain during the remainder of the year. The Engineer will determine the exact dates for using each kind of seed.

**FERTILIZER TOPDRESSING:**
Fertilizer used for topdressing shall be 16-8-8 grade and shall be applied at the rate of 500 pounds per acre. A different analysis of fertilizer may be used provided the 2-1-1 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as 16-8-8 analysis and as directed.

SUPPLEMENTAL SEEDING:

The kinds of seed and proportions shall be the same as specified for Seeding and Mulching, and the rate of application may vary from 25# to 75# per acre. The actual rate per acre will be determined prior to the time of topdressing and the Contractor will be notified in writing of the rate per acre, total quantity needed, and areas on which to apply the supplemental seed. Minimum tillage equipment, consisting of a sod seeder shall be used for incorporating seed into the soil as to prevent disturbance of existing vegetation. A clodbuster (ball and chain) may be used where degree of slope prevents the use of a sod seeder.

MOWING:

The minimum mowing height on this project shall be six inches.