



**PERFORMANCE STANDARDS**

- ALL SITE ACCESS MUST BE CONFINED TO THE CONSTRUCTION ENTRANCE(S) BARRICADE TO PREVENT USE OF ANY LOCATIONS OTHER THAN THE CONSTRUCTION ENTRANCE(S) WHERE VEHICLES OR EQUIPMENT MAY ACCESS THE SITE.
- CONTRACTOR TO LOCATE TEMPORARY CONSTRUCTION FENCING, JERSEY BARRIERS, OR BOTH ALONG THE SIDES OF THE CONSTRUCTION ENTRANCE TO PREVENT CONSTRUCTION TRAFFIC FROM SHORT CIRCUITING BY PASSING THE ENTRANCE.
- IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCE(S) IS NOT SUFFICIENT TO PREVENT TRACKING OF DIRT, DUST OR MUD, THEN TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. ALL WASH WATER MUST BE ROUTED TO A TREATMENT AREA AND SHALL NOT BE DIRECTLY DISCHARGED OFF-SITE.
- LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF SEDIMENT TRACKING BEYOND THE PERMITTED PROJECT AREA. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- ANY SEDIMENT DEPOSITED ON THE ROADWAY SHALL BE SWEEP AS NECESSARY (AND WITHIN THE SAME DAY AS DISCOVERY) AND DISPOSED OF IN AN APPROPRIATE MANNER. SEDIMENT SHALL NOT BE WASHED INTO STORM SEWER SYSTEMS.
- ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD BEYOND THE ENTRANCE(S). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCE(S) AS CONDITIONS DEMAND.
- CONTRACTOR SHALL BE PERMITTED TO TURN THE STONE WHEN THE SURFACE BECOMES SMOOTH AND SURFACE VIOS ARE FILLED TO MAINTAIN EFFECTIVENESS OF CONSTRUCTION ENTRANCE UNTIL SUCH TIME THAT VIOS BELOW THE SURFACE BECOME FILLED AND THE CONSTRUCTION ENTRANCE IS NO LONGER EFFECTIVE. AT SUCH A TIME THE CONTRACTOR SHALL REMOVE THE INEFFECTIVE STONE AND REPLACE PER DETAIL.
- IF ENTRANCE BMP IS STILL INEFFECTIVE, GC MUST CONTACT THE ENGINEER AND SUBMIT AN RFI AS NECESSARY.

**NOTE TO GC:** THE GOAL OF A CONSTRUCTION ENTRANCE AND ASSOCIATED WHEEL WASH AREAS IS TO ELIMINATE TRACK/OUT DIRT, MUD AND OTHER MATERIALS FROM THE PROJECT SITE. STREET SWEEPING IS NOT AN ACCEPTABLE PRACTICE. WHILE STREET SWEEPING IS AN ACCEPTABLE PRACTICE FOR REMOVING DIRT AND MINIMAL AMOUNTS OF THE SEDIMENT, OBSERVABLE TRACK-OUT FROM THE PROJECT SHOULD TRIGGER THE USE OF ADDITIONAL MEASURES (WHEEL WASH, CONSIDERATION OF ALTERNATE ENTRANCES, OR DISCONTINUING VEHICLE TRAFFIC UNTIL CONDITIONS ON-SITE ARE IMPROVED). TRACK-OUT IS A SEDIMENT RELEASE. ALL SEDIMENT RELEASES MUST BE REPORTED TO THE SWPPP VIA THE ONLINE CRITICAL INCIDENT REPORT.

**CONSTRUCTION ENTRANCE**

**PERMANENT SEEDING, SOD OR MULCH**

**PERMANENT SEEDING**

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**PERMANENT SEEDING**

**PERMANENT SEEDING**

**TABLE 3.32-D**

**SITE SPECIFIC SEEDING MIXTURES FOR COASTAL PLAIN AREA**

Mixture	Total Lbs. Per Acre
<b>Minimum Class Lawn</b>	
- Commercial or Residential	
- Kentucky 31 or Turf-Type Tall Fescue	175-200 lbs.
- or	
- Common Bermudagrass **	75 lbs.
<b>High Maintenance Lawn</b>	
- Kentucky 31 or Turf-Type Tall Fescue	200-250 lbs.
- or	
- Hybrid Bermudagrass (seed) **	40 lbs. (subtotal)
- Hybrid Bermudagrass (by other vegetative establishment method, see Sub. & Spec. 5.14)	26 lbs. (subtotal)
<b>General Slope (3:1 or Steeper)</b>	
- Kentucky 31 Fescue	128 lbs.
- Real Turf Grass	2 lbs.
- Seasonal Nurse Crop *	20 lbs.
- or	
- Common Bermudagrass **	150 lbs.
<b>Low Maintenance Slope (Shooper Slope 3:1)</b>	
- Kentucky 31 Tall Fescue	93-108 lbs.
- Common Bermudagrass **	0-15 lbs.
- Real Turf Grass	2 lbs.
- Seasonal Nurse Crop *	20 lbs.
- or	
- Common Bermudagrass **	150 lbs.

\* Use seasonal nurse crop in accordance with seeding dates as stated below:  
 February, March through April ..... Annual Ryegrass  
 May 15 through August ..... Annual Ryegrass  
 September, October through November 15th ..... Annual Ryegrass  
 November 16th through January ..... Winter Ryegrass

\*\* May through October, use seeded seed. All other seeding periods, use established seed. Winter Ryegrass may be added to any slope of low maintenance mix during winter seeding periods; add 10-20 lbs./acre in mixes.

SOURCE: VA DSWC

**TEMPORARY SEEDING**

**TABLE 3.30-A**

**CUBIC YARDS OF TOPSOIL REQUIRED FOR APPLICATION TO VARIOUS DEPTHS**

Depth (inches)	Per 1,000 Square Feet	Per Acre
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806

Source: VA DSWC

**TABLE 3.31-B**

**ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS**

**\*CHECK REFERENCE FOR ALL REGIONS\***

Planting Dates	Species	Rate (lbs./acre)
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (Lolium sp.) and Cereal Rye (Secale cereale)	50 - 100
Feb. 16 - Apr. 30	Annual Ryegrass (Lolium sp.)	60 - 100
May 1 - Aug. 31	Common Millet (Setaria sp.)	50

Source: VA DSWC

**TABLE 3.31-C**

**TEMPORARY SEEDING PLANT MATERIALS, SEEDING RATES, AND DATES**

SPECIES	SEEDING RATE		NORTH*		SOUTH*		PLANT CHARACTERISTICS
	Area	1000 sq. ft.	351 to 420	421 to 500	501 to 600	601 to 1123	
GRASS (Sod)	1 lb. (up to 100 lbs. per 1000 sq. ft.)	2 lbs.	X		X		Use only sods that are well rooted, have cover, fibrous root and low seedling.
RYE (Sod)	2 lb. (up to 100 lbs. per 1000 sq. ft.)	2.5 lbs.	X	X	X	X	Use for sod fall seedings, where cover, fibrous root and low seedling.
COMMON MILLET (Sod)	50 lbs.	approx. 1 lb.		X			Use only sods that are well rooted, have cover, fibrous root and low seedling.
ANNUAL RYEGRASS (Sod)	60 lbs.	1.5 lbs.	X	X	X	X	Use only sods that are well rooted, have cover, fibrous root and low seedling.
WINTER RYEGRASS (Sod)	15 lbs.	750 lbs.	X				Use only sods that are well rooted, have cover, fibrous root and low seedling.
COMMON MILLET (Sod)	25 lbs.	1.1 lb.		X	X	X	Use only sods that are well rooted, have cover, fibrous root and low seedling.

\* Northern Piedmont and Mountain regions.  
 \* Southern Piedmont and Coastal Plain regions.  
 \* May be used for spring seedings.  
 \* May be used for winter seedings.  
 \* May be used for summer seedings.

Source: VA DSWC

**SOIL STABILIZATION AND MULCHING**

**TABLE 3.33-A**

**TYPE OF SOD AVAILABLE IN VIRGINIA AND RECOMMENDED USES**

**Category I - Recommended Kentucky Bluegrass Varieties**

65% - 100% A-34, Abbey, Aspen, Asset, Baron, Bladensburg, Bonair, Chert, Classic, Classic, Country, Georgetown, Glade, Hogg, Julia, Liberty, Lori's 1757, Merit, Midnight, Monopoly, Posh, Princeton, Rex, Rugby, Suffolk, Vista.

**Category II - Special use varieties. If used, must contain at least 65% Category I varieties**

**Shade Tolerant**

10-35% Briard, Columbia, Georgetown, Glade, Midnight &

**Low Maintenance Tolerant**

10-35% Columbia, Georgetown, Monopoly, Rare I, Tussocklaw, Vista

**Category III - Promising Kentucky Bluegrass - Limited performance data or seed availability**

10-55% Dawn, Estate, Freedom, Kelly

Source: 1991 Virginia Turfgrass Variety Recommendations, Virginia Crop Improvement Association. \*\* (continued)

**TABLE 3.33-B**

**TYPE OF SOD AVAILABLE IN VIRGINIA AND RECOMMENDED USES**

**Tall Fescue** Adapted to the entire state.

**Recommended Tall Fescue Varieties:**

90-100% Amigo, Apache, Bannan, Chieftain, Finelawn SGL, Mesa, Rebel II, Sewardson, Tribute

**Emerging Tall Fescue**

0-10% Kentucky Bluegrass, Baron, Chert, Columbia, Monopoly, Niagara, Ram I, Vista

**Bermudagrass:** Turfco is adapted to the Richmond-Danville-Newport News triangle. Midlawn may be used east of Richmond and south of Charlottesville. Tifgreen and Tifway may be used to the east and south of Richmond, Vamont may be used east of Roanoke and at lower elevations in southwestern Virginia.

**Certified Midlawn, Tifgreen\*, Tifway, Tifway II, Turfco and Vamont**

**Zoysiagrass:** This sod performs best in southeastern Virginia.

Meyer, Emerald\*

Note: Common Bermudagrass is not recommended for sod production.

\* Only recommended in southeastern Virginia.

Source: 1991 Virginia Turfgrass Variety Recommendations, Virginia Crop Improvement Association

**ORGANIC MULCH MATERIALS AND APPLICATION RATES**

MULCHES:	RATES:		NOTES:
	Per Acre	Per 1000 sq. ft.	
Straw or Hay	1 1/2 tons (Minimum 2 tons for winter cover)	70 - 90 lbs.	Free from weeds and coarse matter. Must be anchored. Spread with mulch blower or by hand.
Fiber Mulch	Minimum 1500 lbs.	35 lbs.	Do not use as mulch for winter cover or during hot, dry periods. Apply as early as possible.
Corn Stalks	4 - 6 tons	185 - 225 lbs.	Cut or shredded to 4-6" lengths. Air dried. Do not use in fine turf areas. Apply with mulch blower or by hand.
Wood Chips	4 - 6 tons	185 - 225 lbs.	Free of coarse matter. Air dried. Treat with 12 lb nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.
Bark Chips or Shredded Bark	50 - 70 cu. yds.	1-2 cu. yds.	Free of coarse matter. Air dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.

\* When fiber mulch is the only available mulch during periods when straw should be used, apply at a minimum rate of 2000 lbs./ac. or 45 lbs./1000 sq. ft.

Source: VA DSWC

**DEVELOPER/OWNER:**  
 WAL-MART REAL ESTATE BUSINESS TRUST  
 MAIL STOP 5570  
 2001 SE 10TH STREET  
 BENTONVILLE, AR  
 72716-5570  
 479-204-3314

**SITE OPERATOR/GENERAL CONTRACTOR:**

**SUPERINTENDENT:**

**IMPORTANT:** GC MUST SIGN ALL PLAN SHEETS AND ANY NEW PLAN SHEETS ISSUED BY THE GC.

**EROSION AND SEDIMENT CONTROL DETAILS**

**REVISIONS**

NO.	BY	DATE	DESCRIPTION
1	REVISED PER COUNTY AND TOWN COMMENTS		
2	REVISED PER COUNTY AND TOWN COMMENTS		
3	REVISED PER COUNTY AND TOWN COMMENTS		

**BOHLER ENGINEERING**

22636 DAVIS DRIVE, SUITE 260  
 STEELING, VIRGINIA 22154  
 Phone: (703) 709-5500  
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 VA@BohlerEng.com

**WALMART STORES, INC.**

EROSION AND SEDIMENT CONTROL DETAILS

WALMART SUPERCENTER #1904-005 - SPAM #1  
 CATACTIN ELECTION DISTRICT  
 LEESBURG, LOUDOUN COUNTY, VA

BENTONVILLE, AR

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