EROSION AND SEDIMENT CONTROL NARRATIVE	M	INIMUM STANDARDS					CRITERIA, TECHNIQUE OR METHOD	PRACTICES PROVIDED	
JECT DESCRIPTION: THE PURPOSE OF THIS PROJECT IS TO COMPLETE AND INSTALL A NEW PUMP STATION. THE STRUCTION WILL DISTURB A TOTAL AREA OF 4050 SF SF OR 0.093 ACRES.	10,0	THE FOLLOWING STANDARDS ARE TO BE PROVIDED OR ADDRESSED ON EVERY DEVELOPMENT PROJECT EXCEEDING 10,000 S.F. IN AREA OF DISTURBANCE. THESE STANDARDS ARE CONSIDERED A MINIMUM AND MAY REQUIRE					PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT	SEE	
TING SITE CONDITIONS: THE PROPERTY DRAINS TO THE NORTH & WEST TOWARDS 21 ST NORTHWEST STORM SEWE TEM AND ULTIMATELY TO THE ROANOKE RIVER. THE MAJORITY OF THE WORK IS LOCATED NORTHWEST OF THE EXIS		ITIONAL MEASURES AS DEEMED NECES					DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE	PLANS & CALC'S	
ER TANK. ACENT PROPERTY: THE PROJECT IS BOUNDED BY RURAL RESIDENTIAL PROPERTIES IN ALL DIRECTIONS. NO OFF-S AS WILL BE UTILIZED FOR THE STABILIZATION OF THIS SITE.	SITE No.	PERMANENT OR TEMPORARY SOIL STA		O DENUDED AREAS WITHIN SEVEN I	DAYS AFTER FINAL	PRACTICES PROVIDED	STATED FREQUENCY STORM OF24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA. STRAGAM RESTORATION AND RELOCATION PROJECTS THAT INCORPORATE NATURAL CHANNEL DESIGN CONCEPTS ARE NOT MAN-MADE CHANNELS AND SHALL BE EXEMPT FROM AN		
: A SUBSURFACE INVESTIGATION HAS NOT BEEN PROVIDED. SOIL INFORMATION IS AVAILABLE ON THE RESIDUAL IS SUGGESTED IN THE "SOIL SURVEY OF ROANOKE COUNTY AND THE CITIES OF ROANOKE AND SALEM, VIRGINIA" ARED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE. THIS SURVEY SHOWS 100% OF THESE SOILS TO BI ECLOSE-LITZ COMPLEX 2-15% SLOPES.	AS	GRADE IS REACHED ON ANY PORTION TO DENUDED AREAS THAT MAY NOT E PERMANENT STABILIZATION SHALL BE	E AT FINAL GRADE BUT WILL R	EMAIN DORMANT FOR LONGER THAN	N 14 DAYS.	PS FOR ALL DENUDED AREAS	FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS: A. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN	IY	
LE EROSION AREAS: THE CONTRACTOR SHALL INSTALL ALL INITIAL EROSION AND SEDIMENT CONTROL MEASURES DL SEDIMENT LADEN RUNOFF FROM ENTERING ADJACENT PROPERTIES AND/OR STREAMS AND SWALES. THE ACTOR SHALL KEEP EQUIPMENT ON SITE TO REMOVE ANY DIRT OR MUD FROM PAVED AREAS. THE CONTRACTO INSTALL AND MAINTAIN SILT FENCE AS SHOWN ON THE PLANS TO CAPTURE SEDIMENT LADEN RUNOFF AND FIL	OR _	DURING CONSTRUCTION OF THE PROJE MEASURES. THE OWNER IS RESPONSI STOCKPILES ON SITE AS WELL AS BOI	BLE FOR THE TEMPORARY PROT	ECTION AND PERMANENT STABILIZA	ATION OF ALL SOIL	N/A	<ul> <li>ADEQUATE</li> <li>NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS</li> <li>DISCHARGED INTO</li> <li>A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE</li> </ul>	E	
PRIOR TO ENTERING DOWNSTREAM AREAS AND ADJACENT PROPERTIES. ALL ESC MEASURES SHALL BE INSTAINTAINED TO THE MINIMUM REQUIRED STANDARDS. AND SEDIMENT CONTROL MEASURES:	ALLED 3	A PERMANENT VEGETATIVE COVER SH PERMANENT VEGETATION SHALL NOT E OF THE LOCAL PROGRAM ADMINISTRATEROSION.	E CONSIDERED ESTABLISHED UN	ITIL A GROUND COVER IS ACHIEVED	D THAT, IN THE OPINION	PS FOR ALL DENUDED AREAS	PERFORMED. B. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER: 1) THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE		ATE
NLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DNSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE "VIRGINIA EROSION AND EDIMENT CONTROL HANDBOOK, THIRD EDITION" (VESCH). THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO NLESS OTHERWISE DIRECTED BY THE LOCAL PROGRAM ADMINISTRATOR.		4 SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.					CHANNEL IS ONE HUNDRED TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION; OR 2) (A) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT		
AREAS: MATERIALS TAKEN OFF SITE WILL BE GOING TO A PERMITTED SITE.	5	STABILIZATION METHODS SHALL BE AF AFTER INSTALLATION.	PLIED TO EARTHEN STRUCTURE	S SUCH AS DAMS, DIKES AND DIVER	ERSIONS IMMEDIATELY	N/A	OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS. (B) ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY		
RAL -	6	SEDIMENT TRAPS AND BASINS SHALL BY THE TRAP OR BASIN.	BE DESIGNED AND CONSTRUCTE	D BASED UPON THE TOTAL DRAINAG	AGE AREA TO BE SERVED	N/A	THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER		
CE—STD. 3.05: A TEMPORARY SEDIMENT BARRIER CONSTRUCTED OF POSTS, FILTER FABRIC AND IN SOME CAS FENCE TO INTERCEPT AND DETAIN SEDIMENT VE —	7	CUT AND FILL SLOPES SHALL BE CON ERODING EXCESSIVELY WITHIN ONE (1) STABILIZATION MEASURES UNTIL THE F	YEAR OF PERMANENT STABILIZ			WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS; AND (C) PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM. C. IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE			
IT SEEDING-STD. 3.32: ESTABLISHMENT OF PERMANENT VEGETATIVE COVER BY PLANTING SEED OR ROUGH G AT WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR MORE.	GRADED 8	CONCENTRATED RUNOFF SHALL NOT F		S UNLESS CONTAINED WITHIN AN AD	DEQUATE TEMPORARY	N/A	NOT ADEQUATE, THE APPLICANT SHALL:		NA LTH
AGEMENT STRATEGIES: INSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE. DIMENT TRAPPING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING. E LOCAL PROGRAM ADMINISTRATOR RESERVES THE RIGHT TO ADD TO, DELETE OR OTHERWISE CHANGE THE EROSION		OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.       SHOULD SEEPS OCCUR IN ANY EXISTING OR NEW CUT OR FILL SLOPE, THE CONTRACTOR SHALL OF RESTAINSURE THAT THERE ARE NOT AREAS OF PONDED WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.       SHOULD SEEPS OCCUR IN ANY EXISTING OR NEW CUT OR FILL SLOPE, THE CONTRACTOR SHALL FRESTAINSURE THAT THERE ARE NOT AREAS OF PONDED WATER AT THE TOPS OF THE SLOPES, AND THEN SHALL CONTACT BOTHER HAD THE PROJECT GEOTECHNICAL ENGINEER AND THE PROJECT GEOTECHNICAL ENGINEER FOR ON-SITE EVALUATION OF THE					1) IMPROVE THE CHANNELS TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO CHANNEL THE BED OR BANKS; OR		Robert W
COL MEASURES AS DEEMED NECESSARY DUE TO ACTUAL FIELD CONDITIONS BY WRITTEN NOTIFICATION TO THE RACTOR. JT AND FILL SLOPES SHALL BE SEEDED WITHIN SEVEN (7) DAYS OF ACHIEVING FINAL GRADE. AFTER INSPECTION AND APPROVAL FROM THE LOCAL PROGRAM ADMINISTRATOR MAY ITEMS BE REMOVED FOL	10	ALL STORM SEWER INLETS THAT ARE N SEDIMENT-LADEN WATER CANNOT ENTE TO REMOVE SEDIMENT.				EER FOR ON-SITE EVALUATION OF THE S OF SEEPAGE.	<ul> <li>2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS CONTAINED WITHIN THE</li> <li>APPURTENANCES;</li> <li>3) DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR</li> </ul>		RUBERT W.
STABILIZATION OF THE CONTRIBUTING AREAS. EXISTING PRIVATE PAVE DRIVEWAY AND THE PROPOSED DRIVEWAY WILL FUNCTION AS A CONSTRUCTION ENTRA NG CONSTRUCTION. THE PROPOSED DRIVEWAY WILL BE STONED DURING CONSTRUCTION TO TRAP SEDIMENT FF ING THE SITE AND ANY MUD ON THE EXISTING PAVED DRIVEWAY WILL BE REMOVED BEFORE ENTERING THE PU	ROM	BEFORE NEWLY CONSTRUCTED STORMU PROTECTION AND ANY REQUIRED TEMP CONVEYANCE CHANNEL AND RECEIVING	ORARY OR PERMANENT CHANNE			N	- STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PREDEVELOPMENT PEAK RUNOFF RATE		BO HIC. NO. BO HII
). ONS: VA SHALL INSPECT DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AND AREAS US	JSED FOR	WHEN WORK IN A LIVE WATERCOURSE SEDIMENT TRANSPORT AND STABILIZE	IS PERFORMED, PRECAUTIONS S THE WORK AREA TO THE GREA	TEST EXTENT POSSIBLE DURING CON	NSTRUCTION.	<u> </u>	<ul> <li>FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MANMADE CHANNEL; OR</li> <li>4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE VESCP AUTHORITY TO PREVENT DOWNSTREAM EROSION.</li> </ul>		
E OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND THE AREA OF JCTION VEHICLE ACCESS AT LEAST EVERY FOURTEEN (14) CALENDAR DAYS, AND WITHIN 48 HOURS OF THE EN EVENT PRODUCING 1/2" OR GREATER OF PRECIPITATION. WHERE AREAS HAVE BEEN FINALLY OR TEMPORARILY	RIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND THE AREA OF IICLE ACCESS AT LEAST EVERY FOURTEEN (14) CALENDAR DAYS, AND WITHIN 48 HOURS OF THE END OF A DUCING 1/2" OR GREATER OF PRECIPITATION. WHERE AREAS HAVE BEEN FINALLY OR TEMPORARILY 13 MULEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX (6) MONTH						D. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS. E. ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE		
ZED OR RUNOFF IS ÚNLIKELY DUE TO WINTER CONDITIONS (SITE IS COVERED WITH SNOW, ICE, OR FROZEN GROU SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. ECT DISTURBED AREAS AND AREAS OF MATERIALS STORAGE THAT ARE EXPOSED TO PRECIPITATION FOR EVIDE		PERIOD, A TEMPORARY STREAM CROSS ALL APPLICABLE FEDERAL, STATE AND	SING CONSTRUCTED OF NONERO	DIBLE MATERIAL, SHALL BE PROVIDE	ED.	N	DEVELOPMENT CONDITION OF THE SUBJECT PROJECT. F. IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE SHALL OBTAIN APPROVAL		
POTENTIAL FOR SEDIMENT ENTERING THE STORM DRAIN SYSTEM. INSPECT E&S CONTROLS IN ACCORDANCE WIT MENTS STATED HEREIN, AND INSPECT POINTS OF STORM DRAIN DISCHARGE FOR EXCESSIVE SEDIMENTATION. CO NTROLS AS REQUIRED TO REDUCE SEDIMENTATION OF STORM DRAINS, CULVERTS, AND RECEIVING CHANNELS.	ТН	SHALL BE MET. THE BEDS AND BANKS OF A WATERCO	NIRSE SHALL BE STABILIZED MI	AFDIATELY AFTER WORK IN THE WA			FROM THE VESCP OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE		
NTROLS OR SEDIMENT PREVENTION AREAS ARE FOUND TO BE IN NEED OF REPAIR OR MODIFICATION, THE WW ADDITIONAL MEASURES OR MODIFICATIONS TO EXISTING MEASURES AS REQUIRED. ANY ADDITIONAL MEASURES	S OR	COMPLETED.					FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE. G. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATORS	5	
ATIONS TO EXISTING MEASURES SHALL BE RECORDED AS FIELD REVISIONS TO THESE PLANS. IN THE EVENT TH NAL CONTROLS ARE FOUND TO BE REQUIRED, THE WVWA SHALL BE RESPONSIBLE FOR IMPLEMENTING THESE CO THE NEXT ANTICIPATED STORM EVENT. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICAL, BE IMPLEMENTED AS SOON AS PRACTICAL.	CONTROLS	MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. 3)EFFLUENT FROM DEWATERING OPERATIONS SHALL BE					SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE		MF
DSION AND SEDIMENT CONTROL MEASURES:		FILTERED OR PASSED THROUGH AN AI DOES NOT ADVERSELY AFFECT FLOWIN SHALL BE PROPERLY COMPACTED IN (	PROVED SEDIMENT TRAPPING D G STREAMS OR OFF-SITE PROP	EVICE, OR BOTH, AND DISCHARGED ERTY. 4)MATERIAL USED FOR BACKI	D IN A MANNER THAT KFILLING TRENCHES	SEE PLANS	RECEIVING CHANNEL. H. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.		
F) SILT FENCE VA ESCH STD. & SPEC. 3.05		ACCOMPLISHED IN ACCORDANCE WITH	THESE REGULATIONS. 6)APPLIC	BLE SAFETY REGULATIONS SHALL E	BE COMPLIED WITH.		I. INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE		
S) TEMPORARY SEEDING VA ESCH STD & SPEC 3.31 S) PERMANENT SEEDING VA ESCH STD & SPEC 3.32	17	WHERE CONSTRUCTION VEHICLE ACC TO MINIMIZE THE TRANSPORT OF SE TRANSPORTED ONTO A PAVED OR F	DIMENT BY VEHICULAR TRACK	ING ONTO THE PAVED SURFACE.	. WHERE SEDIMENT IS		DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY. J. IN APPLYING THESE STORMWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR		
MULCHING VA ESCH STD & SPEC. 3.35		THE END OF EACH DAY. SEDIMENT TRANSPORTED TO A SEDIMENT CON SEDIMENT IS REMOVED IN THIS MAN	SHALL BE REMOVED ÉROM T IROL DISPOSAL AREA. STREE	HE ROADS BY SHOVELING OR SWI	VEEPING AND	N/A	INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE		
RAL EROSION AND SEDIMENT CONTROL NOTES:	18	ALL TEMPORARY EROSION AND SED		IALL BE REMOVED WITHIN THIRTY	Y (30) DAYS AFTER		ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS.		
: Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed and maintained according to minimum standards and		FINAL SITE STABILIZATION OR AFTER AUTHORIZED BY THE LOCAL PROGR	AM ADMINISTRATOR. TRAPPE	SEDIMENT AND THE DISTURBED	SOIL AREAS	SELF-EXPLANATORY	K. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZES		
specifications of the Virginia Erosion and Sediment Control Handbook and Virginia Regulations 9VAC25-840 Erosion and Sediment Control Regulations.		RESULTING FROM THE DISPOSITION FURTHER EROSION AND SEDIMENTAT		ALL DE PERMANENTET STADILIZEL	D TO PREVENT		IMPACTS ON THE PHYSICAL, CHEMICAL AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE.		
2: The plan approving authority must be notified one week prior to the preconstruction conference, one week prior to the commencement of land disturbing activity, and one week prior to the final inspection.							L. ANY PLAN APPROVED PRIOR TO JULY 1, 2014, THAT PROVIDES FOR STORMWATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS SHALL SATISFY THE FLOW RATE	F	$\triangleleft$
All erosion and sediment control measures are to be placed prior to or as the first step in clearing.							CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS SHALL SATISFT THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS IF THE PRACTICES ARE DESIGNED TO		
<ul> <li>A copy of the approved erosion and sediment control plan shall be maintained on the site at all times.</li> <li>Prior to commencing land disturbing activities in areas other than indicated on these plans</li> </ul>		TABLE 3.32-C (Revised June 2003)	TAB	LE 3.35-A	CONSTRUCTION OF		I. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS; II. DETAIN AND RELEASE OVER A 24-HOUR PERIOD THE EXPECTED RAINFALL RESULTING FROM THE ONE YEAR, 24-		By
(including, but not limited to, off-site borrow or waste areas), the contractor shall submit a supplementary erosion control plan to the owner for review and approval by the plan	PERMANENT SEEDIN	IG SPECIFICATIONS FOR APPALACHIAN/MOUNTAIN AREA	ORGANIC MULCH MATER	ALS AND APPLICATION RATES	<i>(WITHOUT WIRE</i> 1. set the stakes.	2. EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.	HOUR STORM; AND		e /1/
approving authority. 6: The contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the plan approving	and the second se	SPECIES         APPLICATION RATES           II Fescue <sup>1</sup> 90-100%           remnial Ryegrass <sup>2</sup> 0-10%	MULCHES: Per Acre Per	1000 sq. ft. NOTES:			III. REDUCE THE ALLOWABLE PEAK FLOW RATE RESULTING FROM THE 1.5, 2, AND 10-YEAR, 24-HOUR STORMS TO A LEVEL THAT	.	Date /11/1
authority. 7: All disturbed areas are to drain to approved sediment control measures at all times during		ntucky Bluegrass' 0-10% TOTAL: 200-250 ibs. nimum of three (3) up to five (5) varieties		- 90 lbs. Free from weeds and coarse matter. Must be anchored.			IS LESS THAN OR EQUAL TO THE PEAK FLOW RATE FROM THE SITE ASSUMING IT WAS IN A GOOD FORESTED CONDITION ACHIEVED	N,	4
B: During dewatering operations, water will be pumped into an approved filtering device.	for	Keritucky Bluegrass from approved list TOTAL: 125 lbs. use In Virginia <sup>1</sup> Il Fesque <sup>1</sup> 128 lbs.	tons for winter cover)	Spread with mulch blower or by hand.	nor		THROUGH MULTIPLICATION OF THE FORESTED PEAK FLOW RATE BY A REDUCTION FACTOR THAT IS EQUAL TO THE RUNOFF VOLUME		
runon-producing raintal event. Any necessary repairs or cleanup to maintain the	General Slope (3:1 or less) Re	d Top Grass or Creeping Red Fescue 2 lbs, asonal Nurse Crop <sup>3</sup> 20 lbs, TOTAL: 150 lbs.	Fiber Mulch Minimum	35 lbs. Do not use as mulch for winter cover or during hot,			FROM THE SITE WHEN IT WAS IN A GOOD FORESTED CONDITION DIVIDED BY THE RUNOFF VOLUME FROM THE SITE IN ITS PROPOSED CONDITION, AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR	>	
effectiveness of the erosion control devices shall be made immediately.	Low-Maintenance Slone Re	Il Fescue <sup>1</sup> 108 lbs. d Top Grass or Creeping Red Fescue 2 lbs.	1500 105.	dry periods.* Apply as slurry.	3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.	4. BACKFILL AND COMPACT THE EXCAVATED SOIL.	NATURAL OR MAN-MADE CHANNELS AS DEFINED IN ANY REGULATIONS PROMULGATED PURSUANT TO § 10.1–562 OR 10.1–570 OF		L RO/
(Stee	(Steeper than 3:1) Cri	asonal Nurse Crop <sup>3</sup> 20 lbs. ownvetch <sup>4</sup> 20 lbs. TOTAL: 150 lbs.	Corn Stalks 4 - 6 tons 185				THE ACT. M. FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF	8	Li li li
TABLE 3.31-B	turfgrass variety list. Quality seed will	ss, use the Virginia Crop Improvement Association (VCIA) recommended bear a label indicating that they are approved by VCIA. A current turgrass inty Extension office or through VCIA at 804-746-4884 or at		lengths. Air-dried. Do not use in fine turf areas. Apply with mulch blower or by			10.1-561 A OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE		scrip TY C
(Revised June 2003) TEMPORARY SEEDING SPECIFICATIONS	http://sudan.cses.vt.edu/html/Turf/turf/	(publications/publications2.html faster and at lower soil temperatures than Tall Fescues, thereby providing bed		hand.			STORMWATER	-	
QUICK REFERENCE FOR ALL REGIONS	March	bed. lance with seeding dates as stated below: April - May 15 <sup>th</sup> Annual Rye	Wood Chips 4 - 6 tons 185	dried. Treat with 12 lbs			MANAGEMENT ACT (§ 10.1-603.2 ET SEQ. OF THE CODE OF VIRGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND DISTURBING		
		6 <sup>th</sup> - August 15 <sup>th</sup> Foxtail Millet t 16 <sup>th</sup> - September October Annual Rye nber - February Winter Rye		nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower chin			ACTIVITIES ARE IN ACCORDANCE WITH 4VAC50-60-48 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT REGULATIONS.		
CATION DATES SPECIES APPLICATION RATES	4 - All legume seed must be properly Lovegrass is used, include in any slop 30 -40 lbs/acre.	her - February Winter Rye noculated. If Flatpea is used, increase to 30 lbs/acre if Weeping se or low maintenance mixture during warmer seeding periods, increase to		with mulch blower, chip handler, or by hand.			N. COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 4VAC50-60-66 OF THE VIRGINIA STORMWATER		RE/
- Feb. 15 50/50 Mix of Annual Ryegrass (lolium multi- florum) & Cereal (Winter) Rye (Secale cereale) 50 -100 (lbs/acre)		FERTILIZER & LIME	or yds. Shredded	2 cu. yds. Free of coarse matter. Air- dried. Do not use in fine turf areas. Apply with		31430	MANAGEMENT PROGRAM (VSMP) PERMIT REGULATIONS SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF MINIMUM STANDARD 19.		
16 - Apr. 30 Annual Ryegrass (Iolium multi-florum) 60 - 100 (Ibs/acre)	Apply Pulverized Agricult NOTE:	t a rate of <b>500</b> lbs. / acre (or 12 lbs. / 1,000 sq. ft.) tural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.) the actual amount of lime required to activat the soil pH of site	Bark mulch blower, chip handler, or by hand.				E&S COST ESTIMATE CITY APPROVAL BL	BLOCK	
1 - Aug. 31 German Millet 50 (lbs/acre)	<ul> <li>Incorporate the lime and fertilizer int</li> <li>When applying Slowly Available Nit</li> </ul>	we dessary to determine the actual amount of lime required to adjust the soil pH of site.       * When fiber mulch is the only available mulch during periods when straw         ng Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin       * When fiber mulch is the only available mulch during periods when straw         not Management for Development Sites at <a href="http://www.dor.state.va.us/sw/e&amp;s.htm#pubs">http://www.dor.state.va.us/sw/e&amp;s.htm#pubs</a>					VESCH STD     QUANTITY     UNIT     UNIT     TOTAL       3.05     SILT FENCE     130     LF     4     \$520		Designed: A Drawn: [
FERTILIZER & LIME			I	g	SOURCE: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Contro		2 3.31 TEMPORARY SEEDING 2617 AC 0.046 \$120		Checked: S Approved:
							3.31         PERMANENT SEEDING         2617         AC         0.046         \$120           \$761         \$761         \$761         \$100		Date:
<ul> <li>Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 lbs. / 1,000 sq. ft.)</li> <li>Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)</li> </ul>							3701		
Apply <b>Pulverized Agricultural Limestone</b> at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)  TE:  A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.									Project:
Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)  E:									Project: