

GENERAL EROSION AND SEDIMENT CONTROL NOTES

ESC-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION AND AS REQUIRED BY VIRGINIA REGULATION 4VAC50-30-40, EROSION AND SEDIMENT CONTROL MINIMUM STANDARDS.

ESC-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED PRIOR TO REQUESTING A PRE-CONSTRUCTION CONFERENCE, PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, PRIOR TO REQUESTING A FINAL INSPECTION.

ESC-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.

ESC-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

ESC-5: PRIOR TO ISSUANCE OF A LAND DISTURBANCE PERMIT BY THE LOCAL GOVERNING AUTHORITY, THE OWNER SHALL PROVIDE DOCUMENTATION OF ANY APPLICABLE PERMITS REQUIRED FROM THE ARMY CORPS OF ENGINEERS OR THE VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION.

ESC-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 AUTHORITY.

ESC-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

ESC-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

ESC-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUN-OFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

ESC-10: ALL ASPHALT AREAS WILL BE STABILIZED WITH BASE STONE WITHIN 30 DAYS OF FINAL GRADING.

ESC-11: PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

ESC-12: THE LOCAL APPROVING AUTHORITY AND OTHER INTERESTED AGENCIES SHALL MAKE A CONTINUING REVIEW AND EVALUATION OF THE METHODS USED FOR THE OVERALL EFFECTIVENESS OF THE EROSION CONTROL PROGRAM. AN APPROVED EROSION AND SEDIMENT CONTROL PLAN MAY BE AMENDED BY THE APPROVING AUTHORITY IF AN ONSITE INSPECTION INDICATED THAT THE APPROVED CONTROL MEASURES ARE NOT EFFECTIVE IN CONTROLLING EROSION AND SEDIMENTATION OR IF BECAUSE OF CHANGED CIRCUMSTANCES, THE APPROVED PLAN CANNOT BE CARRIED OUT.

ESC-13: ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARDS, SPECIFICATIONS AND DETAILS OF THE LATEST EDITION OF THE VIRGINIA EROSION CONTROL HANDBOOK (THE HANDBOOK) BY THE VIRGINIA SOIL AND WATER CONSERVATION COMMISSION. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED SO THAT SEDIMENT CARRYING RUNOFF FROM THE SITE WILL NOT ENTER STORM DRAINAGE FACILITIES OR ADJOINING PROPERTIES AND RIGHTS-OF-WAY.

ESC-14: ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THE CONSTRUCTION ENTRANCES.

ESC-15: THE LOCATION OF ALL OFF-SITE OR BORROW AREAS ASSOCIATED WITH THE CONSTRUCTION PROJECT WILL BE PROVIDED TO THE LOCAL GOVERNING AUTHORITY. A SEPARATE EROSION CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THIS AREA.

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION: THE PURPOSE OF THIS PROJECT IS THE CONSTRUCTION OF TWO (2) NEW ROADWAYS AND PUBLIC UTILITIES TO SERVE TWENTY-TWO (22) SINGLE FAMILY RESIDENCES. THE PROPOSED PROJECT WILL COMPRISE OF CLEARING AND REGRADING APPROXIMATELY 4.2 ACRES OF OPEN PASTURE AREA. THE SITE IS LOCATED ALONG THE NORTHERN SIDE OF GEARHART ROAD, SE, JUST WEST OF GARDEN CITY BOULEVARD, SE IN THE CITY OF ROANOKE, VIRGINIA. THE PROPERTY WILL BE DEVELOPED BY THE CONTRACT PURCHASER, PARSELL & ZEIGLER DEVELOPMENT CORP.

EXISTING SITE CONDITIONS: THE SITE IS CURRENTLY A TRACT OF LAND THAT HAD BEEN VACANT AND TREELESS FROM YEARS OF INACTIVITY AND FROM GRAZING ACTIVITIES. OVER 95% OF THE SITE SHEET FLOWS TO AN EXISTING JURISDICTION STREAM THAT IS THE BEGINNING OF A FEMA STUDIED WATERCOURSE, THE REMAINDER OF THE SITE DRAINS VIA SHEET FLOW TO THE EXISTING CURBING LOCATED ALONG GARDEN CITY BOULEVARD, SE.

ADJACENT PROPERTY: THE LIMITS OF CONSTRUCTION ARE BOUNDED ON THE NORTH BY THE UNDEVELOPED PROPERTIES OWNED BY BIBLE BAPTIST CHURCH, AND THE BAYSE'S. THE EASTERN PROPERTY LINE IS BOUNDED BY NUMEROUS EXISTING SINGLE FAMILY RESIDENTS THAT HAVE FRONTAGE ALONG GARDEN CITY BOULEVARD, SE. THE SOUTHERN PROPERTY LINE IS BOUNDED BY THE PUBLIC RIGHT-OF-WAY OF GEARHART ROAD, SE. THE WESTERN PROPERTY LINE IS BOUNDED BY THE LARGE TRACT USED FOR A SINGLE-FAMILY RESIDENCE OWNED BY THE SETTLES'S.

OFF-SITE AREAS: THE DEVELOPMENT WILL NOT REQUIRE THE IMPORT OF BORROW MATERIAL OR THE EXPORT OF EXCESS EARTH MATERIAL TO COMPLETE THE NECESSARY GRADING AS INDICATED BY THESE CONSTRUCTION PLANS. IF MATERIAL WILL NEED TO BE TRANSPORTED OR ONTO THE SITE THEN THE OFFSITE LOCATION SHALL BE IDENTIFIED TO AND SHALL BE APPROVED BY THE LOCAL GOVERNING AUTHORITY.

SOILS: A SUBSURFACE INVESTIGATION HAS NOT BEEN PROVIDED. SOIL INFORMATION IS AVAILABLE ON THE RESIDUAL SOILS THAT IS SUGGESTED IN THE "SOIL SURVEY OF ROANOKE COUNTY AND THE CITIES OF ROANOKE AND SALEM, VIRGINIA" AS PREPARED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE. THIS SURVEY IDENTIFIES THE ORIGINAL SOIL MATERIAL AS HAYESVILLE FINE SANDY LOAM. THIS SOIL HAS THE FOLLOWING CHARACTERISTICS: 1)WELL DRAINED 2) 0"-4" OF TOPSOIL 3) 4 +/- 6" OF A BROW FINE SANDY LOAM SUBBASE 4) MODERATE PERMEABILITY 5)RAPID SURFACE RUN-OFF AND 6) HIGH EROSION POTENTIAL.

CRITICAL EROSION AREAS: NO CRITICAL AREAS ARE ANTICIPATED AS A TEMPORARY SEDIMENT BASIN (PERMANENT SWM FACILITY) WILL BE CONSTRUCTED BELOW THE LIMITS OF THE EARTHWORK AND A SEDIMENT TRAP WILL BE PROVIDED ALONG WITH DIVERSION TO CONTROL THE SOUTHERN LIMITS OF CONSTRUCTION. DISCHARGE FROM BOTH AREAS WILL NOT CREATE ANY PHYSICAL DAMAGE TO THE ADJOINING PROPERTY OWNERS OR WATERCOURSES DUE TO A MAJOR CATASTROPHIC FAILURE.

EROSION AND SEDIMENT CONTROL MEASURES: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION" (VESCH). THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS OTHERWISE DIRECTED BY THE LOCAL PROGRAM ADMINISTRATOR.

STRUCTURAL - CONSTRUCTION ENTRANCE-STD. 3.02.....A STONE PAD, LOCATED AT THE EXISTING DRIVEWAY OFF OF LONGVIEW HAS BEEN PREVIOUSLY INSTALLED TO FACILITATE THE ONGOING CLEARING AND GRUBBING CURRENTLY PERMITTED ON THE SITE.

CONSTRUCTION ROAD STABILIZATION-STD. 3.03.....TEMPORARY STABILIZATION (GRAVEL) SHALL BE PROVIDED ALONG THE EXISTING ACCESSWAY AS REQUIRED TO PREVENT EXCESSIVE TRANSPORTING OF SOILS TO THE CONSTRUCTION ENTRANCE.

SILT FENCE-STD. 3.05.....TEMPORARY BARRIERS TO BE INSTALLED DOWNSLOPE OF AREAS WITH MINIMAL GRADES AND AROUND THE TOPSOIL STOCKPILE TO INTERCEPT AND DETAIN SEDIMENT.

STORM DRAIN INLET PROTECTION-STD. 3.07.....A SEDIMENT FILTER OR EXCAVATED IMPOUNDING AREA INSTALLED AROUND A STORM DRAIN DROP INLET OR CURB INLET TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS.

DIVERSION DIKE-STD. 3.09.....A RIDGE OF COMPACTED SOIL CONSTRUCTED AT THE TOP OR BASE OF A SLOPING DISTURBED AREA WHICH DIVERTS OFF-SITE RUNOFF AWAY FROM UNPROTECTED SLOPES.

TEMPORARY RIGHT-OF-WAY DIVERSION-STD. 3.11.....A RIDGE OF COMPACTED SOIL OR LOOSE GRAVEL/ROCK CONSTRUCTED ACROSS A DISTURBED ACCESS ROAD TO DIVERT OFF-SITE RUNOFF AWAY TO MINIMIZE EROSION POTENTIAL ALONG THE EXCAVATED ROADWAYS.

TEMPORARY SEDIMENT BASIN-STD. 3.14.....A DAM WITH A CONTROLLED STORMWATER RELEASE STRUCTURE FORMED BY CONSTRUCTING AN EMBANKMENT OF SOIL ACROSS A DRAINWAY TO DETAIN SEDIMENT-LADEN RUNOFF FROM LARGE DISTURBED AREAS.

RIPRAP-STD. 3.19.....PERMANENT, EROSION-RESISTANT GROUND COVER OF LARGE, LOOSE, ANGULAR STONE WITH A FILTER FABRIC OR GRANULAR UNDERLINING.

SURFACE ROUGHENING-STD. 3.29.....THE ACT OF LEAVING A SLOPE FACE IN A ROUGHENED CONDITION BY NOT FINE GRADING THEM OR BY PROVIDING GROOVES TO PROMOTE STABILIZATION WITH SEEDING.

VEGETATIVE TOPSOILING-STD. 3.30.....TOPSOIL SHALL BE REMOVED FROM WITHIN THE LIMITS OF THE PROJECT AND STORED FOR LATER USE. AFTER GRADING OPERATIONS ARE COMPLETE, TOPSOIL MATERIAL SHALL BE PLACED ALONG THE TOP OF THE EMBANKMENT AND AT ADDITIONAL AREAS WITHIN THE POND AREAS STABILIZE THE BANKS.

TEMPORARY SEEDING-STD. 3.31.....ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR PERIODS OF 30 DAYS TO 1-YEAR BY SEEDING WITH AN APPROPRIATE RAPIDLY GROWING SEED MIXTURE.

PERMANENT SEEDING-STD. 3.32.....ESTABLISHMENT OF A VEGETATIVE COVER BY PLANTING SEED ON ALL FINAL GRADED AREAS THAT WILL NOT RECEIVE AN IMPERVIOUS COVER OR RECEIVE TOPSOIL MATERIAL TO PROVIDE A STABILIZED SITE AFTER THE PROJECT IS COMPLETE.

MULCHING-3.35.....MULCH SHALL BE APPLIED TO ALL TEMPORARY AND PERMANENT SEEDING OPERATIONS TO PROMOTE THE GROWTH OF VEGETATION AND TO PROTECT THE SOIL SURFACE FROM RAINDROP IMPACTS.

SOIL STABILIZATION BLANKETS & MATTING-3.38.....UPON COMPLETION OF GRADING OPERATIONS FOR ANY SLOPE AREAS THAT WILL ARE 3:1 OR STEEPER, A DEGRADABLE BLANKET SHALL BE INSTALLED ON A PREPARED PLANTING AREA.

DUST CONTROL-STD. 3.39.....REDUCING SURFACE AND AIR MOVEMENT OF LAND DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES WHICH MAY CAUSE HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

MANAGEMENT STRATEGIES: A) CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE. B) SEDIMENT TRAPPING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING. C) THE LOCAL PROGRAM ADMINISTRATOR RESERVES THE RIGHT TO ADD TO, DELETE OR OTHERWISE CHANGE THE EROSION CONTROL MEASURES AS DEEMED NECESSARY DUE TO ACTUAL FIELD CONDITIONS BY WRITTEN NOTIFICATION TO THE CONTRACTOR. D) ALL FILL AND CUT SLOPES SHALL BE SEEDD WITHIN SEVEN (7) DAYS OF ACHIEVING FINAL GRADE. E) ONLY AFTER INSPECTION AND APPROVAL FROM THE LOCAL PROGRAM ADMINISTRATOR MAY ITEMS BE REMOVED FOLLOWING THE STABILIZATION OF THE CONTRIBUTING AREAS.

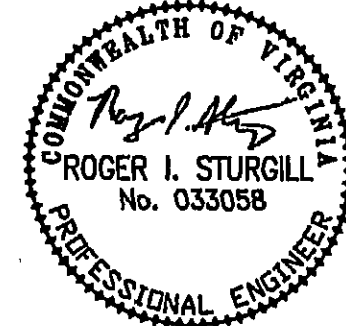
INSPECTIONS: THE GENERAL CONTRACTOR SHALL INSPECT DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND THE AREA OF CONSTRUCTION VEHICLE ACCESS AT LEAST EVERY FOURTEEN (14) CALENDAR DAYS, AND WITHIN 48 HOURS OF THE END OF A STORM EVENT PRODUCING 1/2" OR GREATER OF PRECIPITATION. WHERE AREAS HAVE BEEN FINALLY OR TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (SITE IS COVERED WITH SNOW, ICE, OR FROZEN GROUND EXISTS) SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. A) INSPECT DISTURBED AREAS AND AREAS OF MATERIALS STORAGE THAT ARE EXPOSED TO PRECIPITATION FOR EVIDENCE OF, OR THE POTENTIAL FOR SEDIMENT ENTERING THE STORM DRAIN SYSTEM. INSPECT E&S CONTROLS IN ACCORDANCE WITH REQUIREMENTS STATED HEREIN, AND INSPECT POINTS OF STORM DRAIN DISCHARGE FOR EXCESSIVE SEDIMENTATION. CORRECT SITE CONTROLS AS REQUIRED TO REDUCE SEDIMENTATION OF STORM DRAINS, CULVERTS, AND RECEIVING CHANNELS. B) IF CONTROLS OR SEDIMENT PREVENTION AREAS ARE FOUND TO BE IN NEED OF REPAIR OR MODIFICATION, THE GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES OR MODIFICATIONS TO EXISTING MEASURES AS REQUIRED. ANY ADDITIONAL MEASURES OR MODIFICATIONS TO EXISTING MEASURES SHALL BE RECORDED AS FIELD REVISIONS TO THESE PLANS. IN THE EVENT THAT ADDITIONAL CONTROLS ARE FOUND TO BE REQUIRED, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THESE CONTROLS BEFORE THE NEXT ANTICIPATED STORM EVENT. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICAL, THEY SHALL BE IMPLEMENTED AS SOON AS PRACTICAL. C) A REPORT SUMMARIZING THE SCOPE OF INSPECTIONS, NAME OF INSPECTOR, INSPECTOR'S QUALIFICATIONS, DATES OF INSPECTIONS, MAJOR OBSERVATIONS PERTAINING TO THE IMPLEMENTATION OF THESE EROSION CONTROL PLANS, AND ACTIONS TAKEN SHALL BE MADE AND RETAINED AS A PART OF THESE PLANS. MAJOR OBSERVATIONS OF THESE REPORTS SHALL INCLUDE: THE LOCATIONS OF EXCESSIVE SEDIMENTATION FROM THE SITE; LOCATIONS OF CONTROLS IN NEED OF REPAIR; LOCATIONS OF FAILED OR INADEQUATE CONTROLS; AND LOCATIONS WHERE ADDITIONAL CONTROLS ARE NEEDED.

STORMWATER MANAGEMENT: A PERMANENT SWM FACILITY WILL BE INSTALLED BY CONVERSION OF THE TEMPORARY SEDIMENT BASIN TO COMPLY WITH MINIMUM STD. #19 OF THE VESCH REGULATIONS

VESCH MINIMUM STANDARDS

THE FOLLOWING STANDARDS ARE TO BE PROVIDED OR ADDRESSED ON EVERY DEVELOPMENT PROJECT EXCEEDING 5000 S.F. IN AREA OF DISTURBANCE. THESE STANDARDS ARE CONSIDERED A MINIMUM AND MAY REQUIRE ADDITIONAL MEASURES AS DEEMED NECESSARY BY THE LOCAL APPROVING AUTHORITY OR THE CONSULTING ENGINEER.

| No. | CRITERIA, TECHNIQUE OR METHOD   | PRACTICES PROVIDED   |
|-----|---|--|
| 1   | PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE HAS BEEN REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN THIRTY (30) DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE (1) YEAR.  | <div>TS PS MU</div> FOR ALL DENUDED AREAS  |
| 2   | DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.  | <div>TS PS MU</div> FOR PROVIDED STOCKPILE   |
| 3   | A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT, IN THE OPINION OF THE LOCAL PROGRAM ADMINISTRATOR OR DESIGNATED AGENT, IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.  | <div>TS PS MU</div> FOR ALL DENUDED AREAS  |
| 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.   | <div>SB DD</div> FOR ALL DRAINAGE DIVIDES  |
| 5   | STABILIZATION METHODS SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.   | <div>TS PS MU</div> FOR ALL EARTHEN STRUCTURES   |
| 6   | SEDIMENT TRAPS AND BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.   | SEE SUPPLEMENTAL CALCULATIONS  |
| 7   | CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE (1) YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZATION MEASURES UNTIL THE PROBLEM IS CORRECTED.  | <div>B/M</div> FOR ALL ERODING SLOPES  |
| 8   | CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.  | NOT APPLICABLE   |
| 9   | WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.  | <div>SHOULD SEEPS OCCUR IN ANY EXISTING OR NEW CUT OR FILL SLOPE, THE CONTRACTOR SHALL FIRST DETERMINE THAT THERE ARE NOT AREAS OF PONDING WATER AT THE TOPS OF THE SLOPES, AND THEN SHALL CONSULT WITH THE DESIGN ENGINEER AND THE PROJECT GEOTECHNICAL ENGINEER FOR AN ON-SITE EVALUATION OF THE AREAS OF SEEPAGE.</div> |
| 10  | ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.  | <div>IP</div> FOR ALL STORM WATER INTAKES  |
| 11  | BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.  | <div>RR</div> FOR ALL STORMWATER OUTLETS   |
| 12  | WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRAFFIC AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.  | NOT APPLICABLE<br>NO STREAMS ON-SITE   |
| 13  | WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX (6) MONTH PERIOD, A TEMPORARY STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL.  | NOT APPLICABLE<br>NO STREAMS ON-SITE   |
| 14  | ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET. THE BEDS AND BANKS OF ANY WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.  | NOT APPLICABLE<br>NO STREAMS ON-SITE   |
| 15  | THE BEDS AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.   | NOT APPLICABLE<br>NO STREAMS ON-SITE   |
| 16  | UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA: 1)NO MORE THAN 500 LINEAR FEET OF ANY TRENCH MAY BE OPENED AT ONE TIME. 2)EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. 3)EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY. 4)MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION. 5)RESTALLIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS. 6)APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH. | NOT APPLICABLE<br>ALL UTILITY PIPING ON-SITE   |
| 17  | WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.  | <div>CE</div> FOR ALL POINTS OF INGRESS/EGRESS   |
| 18  | ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM ADMINISTRATOR. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.  | <div>TS PS MU</div> SELF-EXPLANATORY   |
| 19  | PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE APPLICABLE CRITERIA.  | PRIVATE STORMWATER MANAGEMENT FACILITY PROPOSED ON-SITE  |



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REED ESTATES

EROSION & SEDIMENT CONTROL NOTES

ROANOKE CITY, VIRGINIA

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