

GENERAL EROSION AND SEDIMENT CONTROL NOTES

ES-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 AND VIRGINIA REGULATIONS 9V 425-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS

ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

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

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

ES-5: PRIOR TO ISSUANCE OF A LAND DISTURBANCE PERMIT BY THE CITY OF SALEM, THE OWNER SHALL PROVIDE DOCUMENTATION OF AN EXISTING LAND DISTURBANCE PERMIT THAT WOULD BE ASSOCIATED OR REQUIRED FOR ANY OFF-SITE BORROW OR WASTE AREAS, WHETHER LOCATED WITHIN THE CITY LIMITS OR NOT.

ES-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.

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

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

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

BAL-1: ALL ASPHALT AREAS WILL BE STABILIZED WITH BASE STONE WITHIN 30 DAYS OF FINAL GRADING.

BAL-2: PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENIED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENIED 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.

BAL-3: 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 OF ON SITE INSPECTION INDICATED THAT THE APPROVED EROSION AND SEDIMENT CONTROL MEASURES ARE NOT EFFECTIVE IN CONTROLLING EROSION AND SEDIMENTATION OR IF BECAUSE OF CHANGED CIRCUMSTANCES, THE APPROVED PLAN CANNOT BE CARRIED OUT.

BAL-4: 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 AREAS OR ADJACENT PROPERTIES AND RIGHTS-OF-WAY.

BAL-5: ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE VIA THE CONSTRUCTION ENTRANCES.

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION: THE PURPOSE OF THIS PROJECT IS THE CONSTRUCTION OF A FINANCIAL INSTITUTION WITH A DRIVE THROUGH. THE SITE IS LOCATED ALONG FRANKLIN ROAD IN THE CITY OF ROANOKE, VIRGINIA. THE PROPERTY IS CURRENTLY OWNED BY PRONEX PARTNERS LLC. THE DISTURBED AREA IS 41.45 ACRES.

EXISTING SITE CONDITIONS: THE MAJORITY OF THE SITE IS COVERED WITH ASPHALT PAVEMENT OR GRAVEL IN THE PRE-DEVELOPMENT CONDITION. THE REMAINING AREAS ARE COVERED BY MANAGED TURF.

ADJACENT PROPERTY: THE LIMITS OF CONSTRUCTION ARE BOUNDED ON THE NORTHEAST BY THE PUBLIC RIGHT-OF-WAY OF DUKE OF GLOUCESTER ST. THE SOUTHEAST BY THE PUBLIC RIGHT-OF-WAY OF FRANKLIN ROAD, AND ON ALL OTHER SIDES BY PRIVATE COMMERICAL ZONED PROPERTIES.

OFF-SITE AREAS: G.C. SHALL NOTIFY THE CITY OF ROANOKE OF THE LOCATION OF ANY OFF-SITE FILL OR BORROW AREAS PRIOR TO ANY MATERIAL BEING TRANSPORTED TO OR FROM THE SITE. ANY OFF-SITE MATERIAL SHALL COME FROM A PERMITTED SITE.

SOILS: A SURFACE INVESTIGATION HAS NOT BEEN PROVIDED. SOIL INFORMATION IS AVAILABLE ON THE REGIONAL SOILS. THIS SURVEY IDENTIFIED THE ORIGINAL SOIL MATERIAL AS A URBAN LAND, WHICH IS ASSUMED TO BE CLASSIFIED AS H100-SOL.

STORM DRAINAGE AREAS: STORM DRAINAGE AREAS TRANSFERRED INTO THE EXISTING OR PROPOSED STORM DRAINAGE SYSTEM. THE CITY SHALL ALSO INSURE THAT NO MUD TRACKING IS TRANSPORTED ONTO THE ADJACENT PUBLIC AND PRIVATE ROADS. G.C. SHALL MAINTAIN ATTENTION TO THE EXISTING AND PROPOSED STEP SLOPES ON-SITE AND ENSURE TEMPORARY AND PERMANENT STABILIZATION FOR THESE SLOPES.

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 ("HESDO"). THE MINIMUM STANDARDS OF THE HESDO SHALL BE ADHERED TO UNLESS OTHERWISE DIRECTED BY THE LOCAL PROGRAM ADMINISTRATOR.

STORM DRAINAGE: STORM DRAINAGE ENTRANCE-STD 3.02.3-1 STONE PILE LOCATED AT POINT OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE, TO REDUCE THE SOIL TRANSPORT INTO PUBLIC ROADS AND OTHER PAVED AREAS.

SOIL FENCE-STD 3.02.3-1: A TEMPORARY SEDIMENT BARRIER CONSTRUCTED OF POSTS, FILTER FABRIC AND, IN SOME CASES, A WIRE SUPPORT TO PREVENT EROSION AND SEDIMENT TRANSPORT INTO PUBLIC ROADS AND OTHER PAVED AREAS.

STORM DRAIN INLET PROTECTION-STD 3.02.3-1: THE INSTALLATION OF VARIOUS KINDS OF SEDIMENT TRAPPING MEASURES ARE DROP INLETS OR CURB INLET STRUCTURES PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.

ROCK CHECK DAM-STD 3.02.3-1: SMALL, TEMPORARY STONE DAMS CONSTRUCTED ACROSS A DRAINAGE DITCH TO REDUCE THE VELOCITY OF CONCENTRATED FLOWS, REDUCING THE EROSION OF THE DITCH.

VEGETATION: PERMANENT SEEDING-STD 3.3.1: ESTABLISHMENT OF A VEGETATIVE COVER ON DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR PERIODS OF 7 DAYS TO 1-YEAR BY SEEDING WITH AN APPROPRIATE RAPIDLY GROWING SEED MIXTURE.

PERMANENT SEEDING-STD 3.3.2: ESTABLISHMENT OF A VEGETATIVE COVER BY PLANTING SEED ON ALL FINAL GRADES AREAS THAT WILL NOT RECEIVE AN IMPROVED COVER OR REMOVE TOPSOIL MATERIAL TO PROVIDE A STABILIZED SITE AFTER THE PROJECT IS COMPLETE.

MULCHING-3.3.3: MULCH SHALL BE APPLIED TO ALL TEMPORARY AND PERMANENT SEEDING OPERATIONS TO PROMOTE THE GROWTH OF VEGETATION AND TO PROTECT THE SOIL SURFACE FROM RAINFALL IMPACTS.

SOIL STABILIZATION BLANKETS & MATING-3.3.4: UPON COMPLETION OF GRADING OPERATIONS, A DEGRADABLE BLANKET SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER TO PROVIDE STABILIZATION DUE TO SEDIMENT OPERATIONS.

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, 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 SEEDING WITHIN SEVEN (7) DAYS OF ACHIEVING FINAL GRADE.

E) ONLY AFTER INSPECTION AND APPROVAL FROM THE LOCAL PROGRAM ADMINISTRATOR MAY TIES 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 RAINFALL IS IMMINENT DUE TO WINTER CONDITIONS (SITE IS COVERED WITH SNOW, ICE OR FROZEN GROUND). SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH.

ASPECT 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. INSPECTIONS SHALL BE CONDUCTED IN ACCORDANCE WITH REQUIREMENTS STATED HEREIN, AND INSPECTOR, DRAINAGE, CULVERTS, AND RECEIVING CHANNELS. CORRECT SITE CONTROLS AS REQUIRED TO REDUCE SEDIMENTATION OF STORM DRAINAGE AREAS.

IF A CONTROL OR SEDIMENT PREVENTION AREA 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 NECESSARY IN THESE PLANS. IF 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 MAINTAINED AS SUCH 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: THE SITE DRAINS TO THE DRAINAGE AREAS IN THE PREDEVELOPMENT CONDITION. DRAINAGE AREA "A" DRAINS TO THE SOUTH AND EAST TOWARDS THE INTERSECTION OF FRANKLIN ROAD AND DUKE OF GLOUCESTER STREET. DRAINAGE AREA "B" DRAINS TO THE NORTH TOWARDS AN EXISTING DRAINAGE LOW ON THE ADJACENT PROPERTY.

STORMWATER RUNOFF FROM BOTH DRAINAGE AREAS WILL BE REDUCED WITH THIS PROJECT. RUNOFF WILL BE COLLECTED AND CONVEYED BY THE PROPOSED STORM SEWER SYSTEM TO THE EXISTING STORM SEWER ALONG FRANKLIN ROAD IN DRAINAGE AREA "A" AND TO THE EXISTING DRAINAGE LOW IN DRAINAGE AREA "B".

CHANNEL PROTECTION AND FLOOD PROTECTION REQUIREMENTS FOR THIS PROJECT ARE MET BY REDUCING RUNOFF, MAINTAINING EXISTING DRAINAGE PATTERNS, AND CONVEYING RUNOFF THROUGH MAINTAINED CLOSED PIPE SYSTEMS. THE ADEQUACY OF THE DOWNSLOPE CONVEYANCE SYSTEMS WILL NOT BE NEGATIVELY IMPACTED BY THIS PROJECT AND NO FURTHER ANALYSIS IS REQUIRED.

STORMWATER QUALITY REQUIREMENTS WILL BE MET THROUGH THE PURCHASE OF OFF-SITE NUTRIENT CREDITS.

MINIMUM STANDARDS		
No.	CRITERIA, TECHNIQUE OR METHOD	PRACTICES PROVIDED
1	PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENIED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENIED AREAS THAT MAY BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN FOURTEEN (14) DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE (1) YEAR.	