During construction of the project, soil stock piles and borrow areas shall be stabilized or protected with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as borrow areas and soil intentionally transported from the project site. ANY ONSITE SOIL STOCKPILE SHALL HAVE SILT FENCE ALONG THE DOWNHILL PERIMETER. ALSO, A TEMPORARY SEED MIX IS TO BE APPLIED OVER THE SOIL STOCKPILE IF TO REMAIN AS-IS FOR LONGER THAN 14 DAYS.

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 is uniform, mature enough to survive and will inhibit erosion. SEE MINIMUM STANDARD 1.

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. Install erosion control measures as shown on the plan and outlined in the CONSTRUCTION SEQUENCE.

Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation. NOT APPLICABLE, NO EARTHEN STRUCTURES ARE PROPOSED WITH THIS PLAN.

Sediment traps and sediment basins shall be designed and constructed based upon the total drainage area to be served by the trap or basin.

The minimum storage capacity of a sediment trap shall be 134 cubic yards per acre of drainage area and the trap shall only control drainage areas less than three acres.

Surface runoff from disturbed areas that is comprised of flow from drainage areas greater than or equal to three acres shall be controlled by a sediment basin. The minimum storage capacity of a sediment basin shall be 134 cubic yards per acre of drainage area. The outfall system shall, at a minimum, maintain the structural integrity of the basin during a 25-year storm of 24-hour duration. Runoff coefficients used in runoff calculations shall correspond to a bare earth condition or those conditions expected to exist while the sediment basin is utilized. NOT APPLICABLE, NO SEDIMENT TRAPS ARE PROPOSED WITH THIS PLAN.

Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion. Slopes that are found to be eroding excessively within one year of permanent stabilization shall be provided with additional slope stabilizing measures until the problem is corrected. AREAS TO RECEIVE PERMANENT SEEDING ARE TO BE INSPECTED PERIODICALLY. RESEED ANY AREAS THAT DO NOT HAVE AN ESTABLISHMENT OF A GOOD STAND OF GRASS AFTER INITIAL APPLICATION OF PERMANENT SEEDING. APPLY SLOPE STABILIZATION MATTING WHERE INDICATED ON PLANS. ADDITIONAL SLOPE STABILIZATION MEASURES ARE TO BE CONSIDERED AS

Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume or slope drain structure. CONCENTRATED FLOW DOWN SLOPES IS TO BE AVOIDED WITH THIS PLAN. SHOULD CONCENTRATED FLOW OCCUR, CONTRACTOR SHALL REPAIR OR IMPROVE THE GRADE TO DISBURSE FLOW ACROSS A BROAD AREA.

Whenever water seeps from a slope face, adequate drainage or other protection shall be provided. NOT APPLICABLE. SEEPAGE THROUGH SLOPES IS NOT ANTICIPATED TO BE ENCOUNTERED ON THIS PROJECT. SHOULD SEEPAGE OCCUR, ADEQUATE DRAINAGE SHALL BE ESTABLISHED TO CONVEY WATER TO A CONTROLLED POINT OF DISCHARGE AND PROTECT THE SLOPE.

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. INLET PROTECTION SHALL BE INSTALLED AS STORM DRAIN SYSTEM IS INSTALLED. SEE CONSTRUCTION SEQUENCE FOR MORE INFORMATION.

Before newly constructed stormwater conveyance channels or pipes 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. NOT APPLICABLE, NO OUTLET PROTECTION IS PROPOSED WITH PLAN.

12. When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport 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. NO LIVE WATERCOURSE IS ADJACENT TO THIS PROJECT AND NO WORK IS ANTICIPATED IN ANY LIVE WATERCOURSE RELATED TO THIS PROJECT.

13. When a live watercourse must be crossed by construction vehicles more than twice in any six-month period, a temporary vehicular stream crossing constructed of nonerodible material shall be provided. NOT APPLICABLE. NO LIVE WATERCOURSE IS ADJACENT TO THIS PROJECT AND NO WORK IS ANTICIPATED IN ANY LIVE WATERCOURSE

14. All applicable federal, state and local regulations pertaining to working in or crossing live watercourses shall be met. NOT APPLICABLE. NO LIVE WATERCOURSE IS ADJACENT TO THIS PROJECT AND NO WORK IS ANTICIPATED IN ANY LIVE WATERCOURSE RELATED TO THIS PROJECT.

15. The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed. *NOT* APPLICABLE. NO LIVE WATERCOURSE IS ADJACENT TO THIS PROJECT AND NO WORK IS ANTICIPATED IN ANY LIVE WATERCOURSE RELATED TO THIS PROJECT.

16. Underground utility lines shall be installed in accordance with the following standards in addition to other applicable

 a. No more than 500 linear feet of trench may be opened at one time. Excavated material shall be placed on the uphill side of trenches.

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.

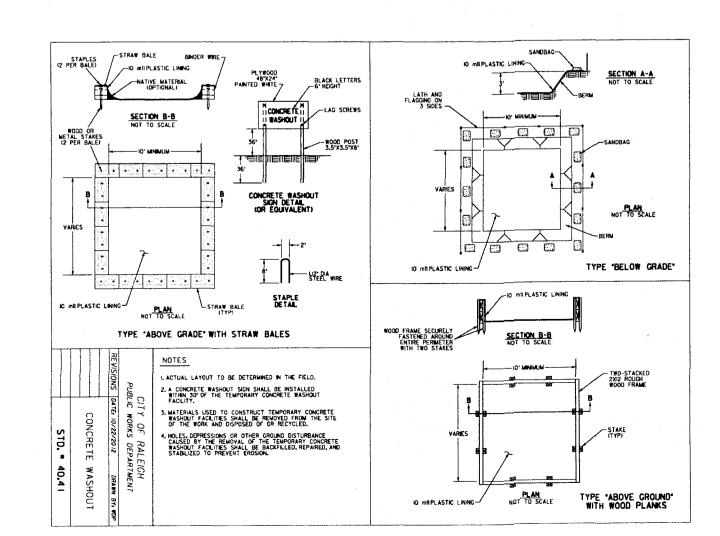
Material used for backfilling trenches shall be properly compacted in order to minimize erosion and promote

Restabilization shall be accomplished in accordance with these regulations. Applicable safety regulations shall be complied with.

UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS ABOVE.

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. This provision shall apply to individual development lots as well as to larger land-disturbing activities. FOLLOW ABOVE REQUIREMENTS FOR ACCESS TO THE SITE THE EXISTING ASPHALT DRIVES WILL ACT AS THE CONSTRUCTION ENTRANCE FOR THIS PROJECT.

18. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, unless otherwise authorized by the local program authority. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation. REMOVE TEMPORARY MEASURES IN ACCORDANCE WITH ABOVE REQUIREMENTS, AND WITH THE PRIOR APPROVAL OF THE FRANKLIN COUNTY INSPECTOR.



**CONCRETE WASHOUT** 

MINIMUM STANDARDS CONTINUED:

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 following standards and criteria:

a. Concentrated stormwater runoff leaving a development site shall be discharged directly into an adequate natural or man-made receiving channel, pipe or storm sewer system. For those sites where runoff is discharged into a pipe or pipe system, downstream stability analyses at the outfall of the pipe or pipe system shall be performed.

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 channel is one hundred times greater than the contributing drainage area of the project

(2) (a) Natural channels shall be analyzed by the use of a two—year storm to verify that stormwater will not overtop channel banks nor cause erosion of channel bed or banks: and

(b) All previously constructed man-made channels shall be analyzed by the use of a ten-year storm to verify that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not cause erosion of channel

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 not adequate, the applicant shall: (1) Improve the channel to a condition where a ten-year storm will not overtop the banks and

a two-year storm will not cause erosion to the channel bed or banks; or (2) Improve the pipe or pipe system to a condition where the ten-year storm is contained within

(3) Develop a site design that will not cause the pre-development peak runoff rate from a two-vear storm to increase when runoff outfalls into a natural channel or will not cause the pre-development peak runoff rate from a ten-year storm to increase when runoff outfalls

(4) Provide a combination of channel improvement, stormwater detention or other measures which is satisfactory to the VESCP authority to prevent downstream erosion.

The applicant shall provide evidence of permission to make the improvements. All hydrologic analyses shall be based on the existing watershed characteristics and the ultimate development of the subject project.

If the applicant chooses an option that includes stormwater detention, he shall obtain approval from the VESCP of a plan for maintenance of the detention facilities. The plan shall set forth the maintenance requirements of the facility and the person responsible for performing the

Outfall from a detention facility shall be discharged to a receiving channel, and energy dissipater shall be placed at the outfall of all detention facilities as necessary to provide a stabilized transition from the facility to the receiving channel

Increased volumes of sheet flows that may cause erosion or sedimentation on adjacent property shall be diverted to a stable outlet, adequate channel, pipe or pipe system, or to a detention

All on-site channels must be verified to be adequate

into a man-made channel: or

In applying these stormwater runoff criteria, individual lots or parcels in a residential, commercial or 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 ultimate development condition shall be used in all engineering

All measures used to protect properties and waterways shall be employed in a manner which minimizes impacts on the physical, chemical and biological integrity of rivers, streams and other waters of the state.

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 capacity and velocity requirements for natural and man-made channels if the practices are designed to

(i) detain the water quality volumes and release it over 48 hours;

(ii) detain and release over 24-hour period the expected rainfall resulting from the one year. 24-hour storm and:

(iii) reduce the allowable peak flow rate resulting from the 1.5, 2, and 10-year, 24-hour storms to a level that is less than or equal to the peak flow rate from the site assuming it was in good forested condition, achieved through multiplication of the forested peak flow rate by a reduction factor that is equal to the runoff volume 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 natural or man—made channels as defined in any regulations promulgated pursuant to 10.1—562 or

m. For plans approved on and after July 1, 2014, the flow rate capacity and velocity requirements of 10.1-561 A of the Act and this subsection shall be satisfied by compliance with water quantity requirements in the Stormwater Management Act (10.1-603.2 et seq. of the Code of Virginia) and attendant regulations, unless such land-disturbing activities are in accordance with 4VAC50-60-48 of the Virginia Stormwater Management Program (VSMP) Permit Regulations.

Compliance with the water quantity minimum standards set out in 4VAC50-60-66 of the Virginia Stormwater Management Program (VSMP) Permit Regulations shall be deemed to satisfy the requirements of Minimum Standard 19. THE DOWNSTREAM CHANNEL HAS BEEN PROVEN TO BE ADEQUATE. REFER TO DRAINAGE &

STORMWATER MANAGEMENT CALCULATIONS FOR ADDITIONAL INFORMATION. ADDITIONALLY, ANY

INCREASE IN RUNOFF WILL BE CONTROLLED AND RELEASED BELOW PRE-DEVELOPMENT RATES

EROSION CONTROL NARRATIVE

THE PROJECT AREA IS LOCATED ADJACENT TO THE REAR OF THE EXISTING WESTLAKE ASSISTED LIVING CENTER IN THE WESTLAKE TOWNE CENTER IN FRANKLIN COUNTY AND CONSISTS OF SITE GRADING FOR THE CONSTRUCTION OF A NEW BUILDING ADDITION AS WELL AS AN ADDITIONAL PARKING AREA. THE DISTURBED AREA IS APPROXIMATELY 2.1 ACRES AS SHOWN ON THESE PLANS.

THE SITE CONSISTS OF THE DEVELOPED PORTION OF THE EXISTING SITE IN THE REAR OF THE BUILDING AND A SECTION OF UNDEVELOPED LAND BEHIND THE EXISTING ASPHALT ROAD.

THE PROJECT AREA IS SURROUNDED BY THE EXISTING WETSLAKE ASSISTED LIVING FACILITY TO THE NORTH AND UNDEVELOPED LAND TO THE EAST, WEST AND SOUTH. OFFSITE AREAS NO OFFSITE AREAS ARE ASSOCIATED WITH THIS PLAN. AN APPROVED BORROW AREA WILL NEED TO IDENTIFIED PRIOR TO BEGINNING

SOILS INFORMATION IS BASED ON AN INSPECTION OF THE USDA WEB SOIL SURVEY AND HAS NOT BEEN FIELD VERIFIED. THE ONSITE

SOIL IS INDICATED TO BE CLIFFORD FINE SANDY LOAM (MAP UNITS 7C AND 7D), 8 TO 15% AND 15 TO 25% SLOPES.

THE CLIFFORD FINE SANDY LOAM SOIL, HYDROLOGIC SOIL GROUP B, POSSESSES THE FOLLOWING CHARACTERISTICS AND PROPERTIES: DEPTH TO RESTRICTIVE FEATURE: MORE THAN 80 INCHES DEPTH TO WATER TABLE: MORE THAN 80 INCHES AVAILABLE WATER CAPACITY: MODERATE

TYPICAL PROFILE: 0 TO 7 INCHES - FINE SANDY LOAM; 7 TO 54 INCHES - CLAY LOAM; 54 TO 62 INCHES - CLAY LOAM; 62 TO 82 INCHES - FINE SANDY LOAM

RUNOFF CLASS: MEDIUM (7C) AND HIGH (7D)

CRITICAL AREAS

TYPICAL TREATMENT - 1

(SOIL STABILIZATION BLANKET)

(JUTE MESH ONLY)

TAMP FIRMLY

ANCHOR SLOT

TAMP CHECK SLOT

INSTALLATION CRITERIA

APPROXIMATELY 200 STAPLES REQUIRED PER 100 SQ. YDS. OF MATERIAL ROLL.

MCHOR SLOTS, JUNCTION SLOTS & CHECK SLOTS TO BE BURIED 8 TO 12"

VAR. VAR.

PLAN VIEW

STAPLING DIAGRAM

STAPLE MIN. LENGTH FOR OTHER SOIL. COMBINATION BLANKETS

12" MAX. 4:1 OR FLATTER

EDGE AND END JOINTS
TO BE SNUGLY ABUTTED Y

(JUTE MESH WILL HAVE STAPLED LAP JOINT IN LIEU OF EDGE JOINT )

5' MAX. 4:1 OR FLATTER

3' MAX. STEEPER THAN 4:1

\*CHECK SLOT ---

\_\_\_\_ 1" TO 2"

6" MAX. STEEPER THAN 4:1

CONSTRUCTION.

THE CONTRACTOR SHALL TAKE SPECIAL CARE TO MINIMIZE THE POTENTIAL FOR ANY SEDIMENT LEAVING THE PROJECT AREA AND ONTO ADJACENT PROPERTY, THE EXISTING STREETS AND THE EXISTING DETENTION POND. AREAS SHALL BE MONITORED REGULARLY AND PROTECTED THROUGHOUT THE CONSTRUCTION PROCESS.

MINIMUM STANDARDS REFER TO DEQ MINIMUM STANDARDS

EROSION AND SEDIMENT CONTROL MEASURES

DRAINAGE CLASS: WELL DRAINED

PERMEABILITY: MODERATELY HIGH TO HIGH

CONSTRUCTION ENTRANCE (3.02) - A STONE CONSTRUCTION ENTRANCE WILL BE INSTALLED TO MINIMIZE THE AMOUNT OF MUD TRANSPORTED INTO EXISTING ROADS.

CONSTRUCTION ROAD STABILIZATION (3.03) - TO REDUCE THE EROSION AND SUBSEQUENT REGRADING OF PERMANENT DRIVE AREAS BETWEEN THE TIME OF INITIAL GRADING AND FINAL STABILIZATION, THESE ROADS WILL BE TEMPORARILY STABILIZED WITH STONE IMMEDIATELY AFTER GRADING.

SILT FENCE (3.05) - SILT FENCE WILL BE INSTALLED AT THE LOWER ENDS OF THE PROJECT SITE TO INTERCEPT SEDIMENT LADEN RUN-OFF PRIOR TO EXITING THE SITE.

INLET PROTECTION (3.07) — INLET PROTECTION WILL BE INSTALLED AT EACH STORM DRAIN INLET TO MINIMIZE THE AMOUNT OF

SEDIMENT LADEN RUNOFF FROM ENTERING THE STORM DRAIN SYSTEM. TEMPORARY DIVERSION DIKE (3.09) - A TEMPORARY RIDGE OF COMPACTED SOIL WILL BE CONSTRUCTED TO DIVERT UPSLOPE RUNOFF AWAY FROM A DISTURBED AREA, AND/OR TO DIVERT SEDIMENT LADEN RUNOFF FROM A DISTURBED AREA TO A SEDIMENT

OUTLET PROTECTION (3.18) - OUTLET PROTECTION WILL BE INSTALLED AT EACH STORM DRAIN OUTLET TO MINIMIZE THE AMOUNT

EROSION OF THE DOWN STREAM CHANNEL. TEMPORARY SEEDING (3.31) - TEMPORARY SEEDING SHALL BE APPLIED TO TEMPORARY DIVERSION DIKES, TOPSOIL STOCKPILES, AND ALL AREAS TO BE ROUGH GRADED, BUT NOT FINISHED GRADED DURING THE INITIAL PHASE OF CONSTRUCTION. TEMPORARY SEEDING SHALL BE FAST GERMINATING, TEMPORARY VEGETATION AND INSTALLED IMMEDIATELY FOLLOWING GRADING, OR INSTALLATION IF A

TEMPORARY MEASURE. SEE ALSO MINIMUM STANDARDS. PERMANENT SEEDING (3.32) - PERMANENT SEEDING SHALL BE INSTALLED ON ALL DISTURBED AREAS OF THE SITE NOT OTHERWISE

MULCHING (3.35) — ALL DISTURBED AREAS SHALL BE MULCHED AFTER SEEDING. STRAW MULCH SHALL BE APPLIED AT A RATE OF TWO TONS PER ACRE AND ANCHORED WITH 750 LBS PER ACRE OF FIBER MULCH OVER THE SEEDED AREA.

SOIL STABILIZATION & MATTING (3.36) - SLOPES 3:1 OR GREATER SHALL HAVE A PROTECTIVE COVERING OR MAT INSTALLED TO

MINIMIZE EROSION AND AID IN ESTABLISHMENT OF PERMANENT VEGETATIVE STABILIZATION. PERMANENT STABILIZATION AREAS NOT COVERED BY DRIVEWAYS, WALKS OR OTHER PERMANENT HARD SURFACE SHALL BE STABILIZED WITH PERMANENT SEEDING. THE CONTRACTOR SHALL ENSURE THAT A STRONG STAND OF GRASS IS ESTABLISHED BEFORE THE REMOVAL OF EROSION

CONTROL MEASURES. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY FOUR BUSINESS DAYS OR AT LEAST ONCE EVERY FIVE BUSINESS DAYS AND NO LATER THAN 48 HOURS FOLLOWING A MEASURABLE STORM EVENT. A LOG OF DATES AND INSPECTIONS SHALL BE KEPT. ANY DEFICIENCIES THAT ARE FOUND SHALL BE CORRECTED IMMEDIATELY. ACCUMULATED SEDIMENT AT

TRAPPING MEASURES SHALL BE ROUTINELY REMOVED. THE CONTRACTOR AND RLD SHALL PAY PARTICULAR ATTENTION TO THE

ALL DITCHES, SWALES, AND NATURAL WATERCOURSES DOWNSTREAM OF THIS PROJECT SHALL BE FIELD INSPECTED DURING AND AFTER CONSTRUCTION BY THE RLD TO ENSURE COMPLIANCE WITH DEQ MS-19. IF EROSION OR SCOUR IS OCCURRING THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL CORRECTIVE MEASURES.

SEDIMENT TRAP SHALL BE INSPECTED REGULARLY AND ACCUMULATED SEDIMENT SHALL BE REMOVED AS NECESSARY TO MAINTAIN DESIGN VOLUMES.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED AND THEN TEMPORARY MEASURES PROPERLY REMOVED. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL

BE FERTILIZED AND RESEEDED AS REQUIRED TO ACHIEVE A GOOD STAND OF GRASS. THE CONSTRUCTION ENTRANCE SHALL BE CHECKED REGULARLY TO ENSURE THAT MUD IS NOT TRANSPORTED ONTO THE ADJACENT ROADS. THE STONE SHALL BE REMOVED, CLEANED, OR REPLACED AS REQUIRED FOR THE CONSTRUCTION ENTRANCE TO FUNCTION PROPERLY.

STORMWATER MANAGEMENT CONSIDERATION: THE INCREASE IN STORMWATER RUNOFF RESULTING FROM NEW IMPERVIOUS SURFACES WILL BE ATTENUATED BY USE OF EXISTING DETENTION FACILITY. REFER TO STORMWATER MANAGEMENT CALCULATIONS FOUND IN THE "PROJECT CALCULATIONS" WORKBOOK ASSOCIATED WITH THIS PROJECT.

## GENERAL EROSION AND SEDIMENT CONTROL NOTES

ES-1: 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 ES-2: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND NARRATIVE, AS WELL AS A COPY OF THE LAND DISTURBING PERMIT, SHALL BE MAINTAINED ON THE SITE AT ALL TIMES. THE EROSION AND SEDIMENT CONTROL ADMINISTRATOR WILL DELIVER THESE MATERIALS AT THE PRECONSTRUCTION CONFERENCE.

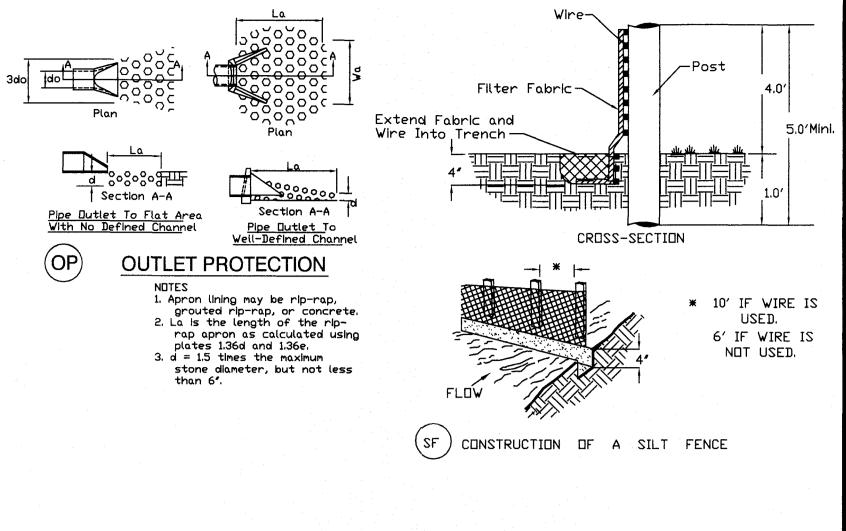
ES-3 PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS). THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY

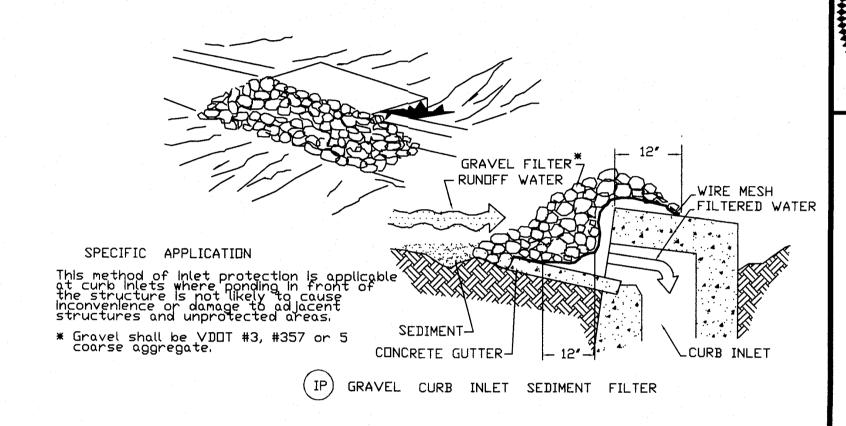
ES-4: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY. ES-5: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL

TIMES DURING THE LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL

FINAL STABILIZATION IS ACHIEVED. DURING DEWATERING OPERATION, WATER WILL BE PUMPED INTO AN APPROVED FILTERING

DEVICE. ES-7: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY. AN INSPECTION REPORT MUST BE FILED WITH THE FRANKLIN COUNTY EROSION AND SEDIMENT CONTROL ADMINISTRATOR ONCE EVERY TWO WEEKS, BEGINNING WITH COMMENCEMENT OF THE LAND DISTURBING ACTIVITY, AND WITHIN 48 HOURS OF ANY RUNOFF-PRODUCING RAINFALL EVENT. FAILURE TO SUBMIT A REPORT WILL BE GROUNDS FOR IMMEDIATE REVOCATION OF THE LAND DISTURBING PERMIT. REPORTS MUST BE POSTMARKED WITHIN 24 HOURS OF THE DEADLINE. A STANDARD INSPECTION REPORT FORM WILL BE SUPPLIED, WHICH SHOULD BE COPIED AS NECESSARY. THIS PROVISION IN NO WAY WAIVES THE RIGHT OF FRANKLIN COUNTY PERSONNEL TO CONDUCT SITE INSPECTIONS, NOR DOES IT DENY THE RIGHT OF THE PERMITTEE (S) TO ACCOMPANY THE INSPECTOR(S).





## TEMPORARY STABILIZATION

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 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

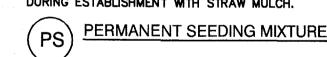
TEMPORARY SEEDING MIXTURE

PLANTING DATES RATE (LBS./ACRE) SPECIES SEPT. 1 - FEB. 15 50/50 MIX OF ANNUAL 50 -- 100 RYEGRASS (LOLIUM MULTI-FLORUM) & CEREAL (WINTER) RYE (SECALE CEREALE) FEB. 16 - APR. 30 ANNUAL RYEGRASS 60 - 100(LOLIUM MULTI-FLORUM) MAY. 1 - AUG. 31 GERMAN MILLET (SETARIA ITALICA)

LIME: 90 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE FERTILIZER: 10-10-10 ● 10 LB / 1000 SF

PERMANENT STABILIZATION

ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH PERMANENT SEEDING WITHIN 7 DAYS OR IMMEDIATELY FOLLOWING FINISH GRADING. SEEDING WILL BE DONE ACCORDING TO STANDARD AND SPECIFICATION 3.32 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. PERMANENTLY SEEDED AREAS SHALL BE PROTECTED DURING ESTABLISHMENT WITH STRAW MULCH.



SEEDING AREA: SEEDING RATE: GENERAL TURF K-31 FESCUE (Optional) PERENNIAL RYEGRASS 20 lbs/Ac GENERAL SLOPE (3:1 or less) K-31 FESCUE 128 lbs/Ac RED TOP GRASS 2 lbs/Ac SEASONAL NURSE CROP 20 lbs/Ac STEEP SLOPE (Greater than 3:1) K-31 FESCUE 108 lbs/Ac RED TOP GRASS 2 lbs/Ac SEASONAL NURSE CROP 20 lbs/Ac CROWNVETCH 20 lbs/Ac SEASONAL NURSE CROP SCHEDULE: March, April - May 15th May 16th - August 15th FOXTAIL MILLET August 16th - September, October ANNUAL RYE November — February WINTER RYE

LIME: 90 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE FERTILIZER: 10-20-10 • 12 LB / 1000 SF

IF REQUIRED, SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 1.75 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST

SOIL CONDITIONING: INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEEDLINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY THE INSPECTOR SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR

HYDROSEEDER ON A FIRM, FRIABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.

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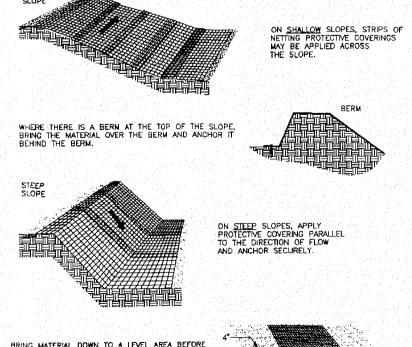
SHEET 9 OF 10

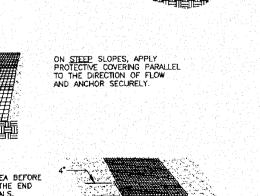
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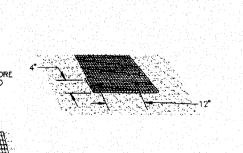
**BLANKET AND MATTING** 

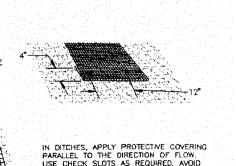
TYPICAL ORIENTATION OF TREATMENT - 1 (SOIL STABILIZATION BLANKET)

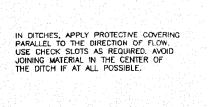
BY THE USE OF EXISTING DETENTION BASIN.

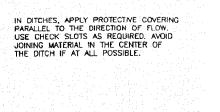












**SOIL STABILIZATION**