GENERAL SEEDING SPECIFICATIONS

THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION RECOMMENDS USING THE PENN STATE "EROSION CONTROL AND CONSERVATION PLANTINGS ON NONCROPLAND" MANUAL AS A REFERENCE FOR SELECTION OF SPECIES, SEED SPECIFICATIONS, MIXTURES, LIMING AND FERTILIZING, TIME OF SEEDING, AND SEEDING METHODS. SPECIFICATIONS FOR THESE ITEMS MAY ALSO BE OBTAINED FROM THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408, SECTION 804 OR BY CONTACTING THE APPLICABLE COUNTY CONSERVATION DISTRICT.

VEGETATED AREAS WILL BE CONSIDERED PERMANENTLY STABILIZED WHEN A UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES IS ACHIEVED, OR THE DISTURBED AREA IS COVERED WITH AN ACCEPTABLE BEST MANAGEMENT PRACTICE ("BMP") WHICH PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION. UNTIL SUCH TIME AS THIS STANDARD IS ACHIEVED, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENT CONTROL BMPs THAT ARE USED TO TREAT PROJECT RUNOFF MAY NOT BE REMOVED.

TEMPORARY SEEDING SPECIFICATIONS

PRELIMINARY PREPARATION: ALL AREAS THAT WILL BE SEEDED MUST BE LOOSENED USING MECHANICAL MEANS. SOIL MUST BE LOOSENED TO A DEPTH OF AT LEAST TWO-INCHES.

LIME AND FERTILIZER: APPLY 1 TON OF AGRICULTURAL GRADE LIMESTONE PER ACRE AND FERTILIZER AS INDICATED BY THE SOIL TEST. IN THE ABSENCE OF A SOIL TEST, APPLY AGRICULTURAL GRADE LIMESTONE AT A RATE OF 1 TON PER ACRE, AND APPLY FERTILIZER AT 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (E.G., 166.67 POUNDS NITROGEN (N), 166.67 POUNDS PHOSPHOROUS (P_2O_5), AND 166.67 POUNDS POTASSIUM (K_2O) PER ACRE. WORK LIME AND FERTILIZER INTO SOIL WHERE POSSIBLE. LIME AND FERTILIZER DATA WAS OBTAINED FROM THE PADEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) MANUAL, TABLE 11.2.

SEED: ALL SEED MUST BEAR A GUARANTEED STATEMENT OF ANALYSIS AND MUST BE PROPORTIONED BY WEIGHT WITH THE MINIMUM PURITY, READY GERMINATION, AND TOTAL GERMINATION OUTLINED BELOW. SEED DATA WAS OBTAINED FROM THE PADEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) MANUAL, TABLES 11.3 AND 11.4.

SPECIES	PURITY (%)	READY GERMINATION (%)	TOTAL GERMINATION (%)	PURE LIVE SEED SEEDING RATE (LBS/ACRE)
SPRING-SUMMER				
SPRING OATS, OR	98	85	85	64
ANNUAL RYEGRASS	95	85	85	10
SUMMER-FALL				
ANNUAL RYEGRASS, OR	95	85	85	10
WINTER RYE, OR	98	85	85	90
WINTER WHEAT	98	85	85	112

1- PURE LIVE SEED (PLS) IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. FOR EXAMPLE, TO SECURE THE ACTUAL PLANTING RATE FOR ANNUAL RYEGRASS, DIVIDE THE PLS SEEDING RATE OF 10 LBS/ACRE BY THE PLS AS SHOWN ON THE SEED TAG. THUS, IF THE PLS CONTENT OF A GIVEN SEEDLOT IS 60%, DIVIDE 10 PLS (LBS/ACRE) BY 0.60 TO OBTAIN 16.7 LBS OF SEED REQUIRED TO PLANT ONE ACRE. ALL MIXTURES IN THIS TABLE ARE SHOWN IN TERMS OF PLS, LBS/ACRE.

MULCH: ALL SEEDED AREAS MUST BE IMMEDIATELY MULCHED TO PROMOTE ADEQUATE VEGETATIVE COVER. USE CLEAN OAT OR WHEAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN. THE STRAW MUST BE FREE FROM MATURE SEED-BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY THE PENNSYLVANIA SEED ACT OF 1947.

APPLY MULCH AT A RATE OF 3 TONS PER ACRE (I.E., 140 POUNDS PER 1,000 SQUARE FEET OR 1,240 POUNDS PER 1,000 SQUARE YARDS). THE MULCH MUST BE ANCHORED IMMEDIATELY AFTER APPLICATION. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO ANCHOR THE MULCH INTO THE SOIL. THIS METHOD IS LIMITED TO SLOPES SHALLOWER THAN OR EQUAL TO 3:1 AND THE EQUIPMENT MUST BE OPERATED ON THE CONTOUR.

PERMANENT SEEDING SPECIFICATIONS

PRELIMINARY PREPARATION: GRADE AS NECESSARY TO BRING SUBGRADE TO A TRUE, SMOOTH SLOPE PARALLEL TO AND SIX INCHES BELOW FINISH GRADE (I.E., 8 INCHES FOR BASIN EMBANKMENTS WHEN APPLICABLE). PLACE TOPSOIL OVER SPECIFIED AREAS. TOPSOIL SHOULD BE AT A GREATER THICKNESS (I.E., GENERALLY 6 TO 8 INCHES) THAN THE FINISHED GRADE TO ALLOW FOR SETTLEMENT AND LIGHT ROLLING. THE FINAL COVER MUST CONFORM TO THE PROPOSED LINES, GRADES AND ELEVATIONS.

LIME AND FERTILIZER: APPLY AGRICULTURAL-GRADE LIMESTONE AND FERTILIZER AS PER THE RECOMMENDATIONS INDICATED BY THE SOIL TEST. IN THE ABSENCE OF A SOIL TEST, APPLY AGRICULTURAL GRADE LIMESTONE AT A RATE OF 6 TONS PER ACRE, AND APPLY 1,000 POUNDS OF 10-20-20 FERTILIZER (E.G., 250 POUNDS NITROGEN (N), 250 POUNDS PHOSPHORUS (P_2O_5), AND 500 POUNDS POTASSIUM (K_2O) PER ACRE.) WORK LIME AND FERTILIZER INTO SOIL WHERE POSSIBLE. LIME AND FERTILIZER DATA WAS OBTAINED FROM THE PADEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) MANUAL, TABLE 11.2.

THE FERTILIZER AND LIMESTONE MUST BE THOROUGHLY INCORPORATED INTO THE SOIL BY MECHANICAL MEANS (E.G., ROTOTILLING) TO A MINIMUM DEPTH OF 4 INCHES.

THE ENTIRE SURFACE MUST THEN BE REGRADED AND ROLLED. ALL AREAS THAT WILL BE SEEDED MUST BE LOOSENED USING MECHANICAL MEANS. SOIL MUST BE LOOSENED TO A DEPTH OF AT LEAST TWO INCHES.

SEED: SEEDING MUST BE CONDUCTED AS TWO SEPARATE OPERATIONS. THE FIRST SEEDING OPERATION MUST BE COMPLETED PRIOR TO STARTING THE SECOND SEEDING OPERATION. THE SECOND SEEDING MUST BE CONDUCTED IMMEDIATELY AFTER THE FIRST SEEDING AND AT RIGHT ANGLES TO THE FIRST SEEDING. THE SEEDS MUST BE LIGHTLY RAKED INTO THE SOIL.

ALL SEED MUST BEAR A GUARANTEED STATEMENT OF ANALYSIS AND MUST BE 100% PROPORTION BY WEIGHT WITH THE MINIMUM PURITY, READY GERMINATION, AND TOTAL GERMINATION OUTLINED BELOW. SEED DATA WAS OBTAINED FROM THE PADEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) MANUAL, TABLES 11.3 AND 11.4.

SPECIES	PURITY (%)	READY GERMINATION (%)	TOTAL GERMINATION (%)	PURE LIVE SEED [1] SEEDING RATE (LBS/ACRE)
SPRING-SUMMER				
REDTOP	92	80	80	3
TALL FESCUE [2]	95	80	80	60
ANNUAL RYEGRASS	95	85	85	10
SUMMER-FALL				
REDTOP	92	80	80	3
TALL FESCUE [2]	95	80	80	60
WINTER RYE	98	85	85	10

1- PURE LIVE SEED (PLS) IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. FOR EXAMPLE, TO SECURE THE ACTUAL PLANTING RATE FOR REDTOP, DIVIDE THE PLS SEEDING RATE OF 3 LBS/ACRE BY THE PLS SHOWN ON THE SEED TAG. THUS, IF THE PLS CONTENT OF A GIVEN SEEDLOT IS 60%, DIVIDE 3 PLS BY 0.60 TO OBTAIN 5.0 LBS OF SEED REQUIRED TO PLANT ONE ACRE. ALL MIXTURES IN THIS TABLE ARE SHOWN IN TERMS OF PLS, LBS/ACRE.

2- USE KENTUCKY 31 TALL FESCUE FOR LOW MAINTENANCE SITES OR TURF-TYPE TALL FESCUE FOR HIGH MAINTENANCE SITES.

MULCH: ALL SEEDED AREAS MUST BE IMMEDIATELY MULCHED TO PROMOTE ADEQUATE VEGETATIVE COVER. USE CLEAN OAT OR WHEAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN. THE STRAW MUST BE FREE FROM MATURE SEED-BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY THE PENNSYLVANIA SEED ACT OF 1947.

APPLY MULCH AT A RATE OF 3 TONS PER ACRE (I.E., 140 POUNDS PER 1,000 SQUARE FEET OR 1,240 POUNDS PER 1,000 SQUARE YARDS). THE MULCH MUST BE ANCHORED IMMEDIATELY AFTER APPLICATION. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO ANCHOR THE MULCH INTO THE SOIL. THIS METHOD IS LIMITED TO SLOPES SHALLOWER THAN OR EQUAL TO 3:1 AND THE EQUIPMENT MUST BE OPERATED ON THE CONTOUR.

STEEP SLOPE SEEDING SPECIFICATIONS

STEEP SLOPE SEEDING MIXTURE (FOR USE ON GRADES AT 3:1 OR GREATER SLOPES): ALL SLOPES GREATER THAN 3:1 SHALL BE COVERED WITH AN EROSION CONTROL BLANKET IN ADDITION TO RECEIVING A GRASS SEEDING MIXTURE.

WHEN CONDITIONS PERMIT, THE FOLLOWING SEEDING MIXTURE CAN BE UTILIZED ON STEEP SLOPES. SEED DATA WAS OBTAINED FROM THE PADEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) MANUAL, TABLES 11.4 AND 11.5.

SPECIES	PURITY (%)	READY GERMINATION (%)	TOTAL GERMINATION (%)	PURE LIVE SEED [1] SEEDING RATE (LBS/ACRE)
ANNUAL RYEGRASS	95	85	85	10
BIRDSFOOT TREFOIL	98	60	80	6
TALL FESCUE	95	80	80	30

1- PURE LIVE SEED (PLS) IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. FOR EXAMPLE, TO SECURE THE ACTUAL PLANTING RATE FOR ANNUAL RYEGRASS, DIVIDE THE PLS SEEDING RATE OF 10 LBS/ACRE BY THE PLS AS SHOWN ON THE SEED TAG. THUS, IF THE PLS CONTENT OF A GIVEN SEEDLOT IS 60%, DIVIDE 10 PLS (LBS/ACRE) BY 0.60 TO OBTAIN 16.7 LBS OF SEED REQUIRED TO PLANT ONE ACRE. ALL MIXTURES IN THIS TABLE ARE SHOWN IN TERMS OF PLS, LBS/ACRE.

FURTHER NOTES

EROSION AND SEDIMENTATION CONTROLS MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE WITHIN THE CONTRIBUTORY DRAINAGE AREAS OF THOSE CONTROLS.

AFTER FINAL SITE STABILIZATION IS ACHIEVED, TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE IMMEDIATELY STABILIZED. FINAL STABILIZATION IS DEFINED AS THE ACHIEVEMENT OF A MINIMUM UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL SPECIES HAS BEEN ACHIEVED ON ALL CONTRIBUTORY DRAINAGE AREAS.

SEDIMENT MUST BE REMOVED FROM INLET PROTECTION AFTER EACH RUNOFF EVENT.

ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED FOR MORE THAN 4 DAYS MUST BE TEMPORARILY STABILIZED. DISTURBED AREAS THAT ARE EITHER AT FINISHED GRADE OR WILL NOT BE DISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH PERMANENT SEEDING SPECIFICATIONS.

ONSITE SEDIMENT CONTROL PLAN MAINTENANCE SCHEDULE

CONTROL MEASURE	INSPECT	PROBLEMS	POSSIBLE REMEDIES (TO BE PERFORMED WITHIN 24 HOURS OR AS SOON AS SAFELY PRACTICAL.)
VEGETATION	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	SEDIMENT AT TOE OF SLOPE	CHECK FOR TOE OF SLOPE DIVERSION AND INSTALL IF NEEDED.
		RILLS AND GULLIES FORMING	FILL RILLS AND REGRADE GULLIED SLOPES.
		BARE SOIL PATCHES	RESEED, FERTILIZE AND MULCH BARE AREAS.
COMPOST FILTER SOCK	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	RUNOFF ESCAPING AROUND BARRIER	SECURELY ANCHOR WITH PROPER STAPLES. EXTEND BARRIER AS NEEDED.
		SEDIMENT LEVEL BUILDUP	REMOVE SEDIMENT WHEN LEVEL REACHES HALF (1/2) OR MORE THE HEIGHT OF THE BARRIER.
INLET PROTECTION	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	SEDIMENT BUILD-UP REDUCING FLOW CAPACITY	REMOVE ACCUMULATED SEDIMENT WHEN LEVEL REACHES 1/2" OR MORE THE HEIGHT OF THE BMP. REPLACE INLET PROTECTION.
		MISSING MATERIAL	REPAIR OR REPLACE PROTECTION MATERIALS AS NEEDED.
		FLOODING AROUND OR BELOW INLET	REMOVE ACCUMULATED SEDIMENT; OR CONVERT SEDIMENT BARRIER TO AN EXCAVATED SEDIMENT TRAP; OR REROUTE RUNOFF TO A MORE SUITABLE OUTLET SUCH AS A SEDIMENT TRAP.
("SILT SACK" - ONLY)		WATER BY-PASSING INLET AND GRATE	REMOVE "SILT SACK" AND REMOVE SILT OR REPLACE WITH NEW "SILT SACK" OR INSTALL BLOCK AND GRAVEL PROTECTION.
PUMPED WATER FILTER BAG	DAILY AND AFTER EACH USE	BAG IS HALF FULL	REPLACE BAG.
		BAG IS CLOGGED OR FLOW IS REDUCED	REPLACE BAG.
ROCK CONSTRUCTION ENTRANCE	DAILY AND AFTER EACH RUNOFF EVENT	LOST AND/OR DISLODGED STONES	REPLACE MISSING STONES SO AS TO MAINTAIN SPECIFIED DIMENSIONS.
		SEDIMENT DEPOSITED IN PAVED ROADWAYS	AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE RETURNED TO THE CONSTRUCTION SITE.

***During E&S BMP inspections PA DEP Visual Site Inspection Form (3150-FM-BWEW0083) should be referenced.

MAINTENANCE PROGRAM

MAINTENANCE OF TEMPORARY CONTROLS:
MAINTAIN TEMPORARY CONTROL MEASURES THROUGHOUT THE PROJECT PERIOD AS OUTLINED IN THE "MAINTENANCE SCHEDULE" SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLANS AND NARRATIVE.

IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE TO PERFORM INSPECTIONS OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES TO ENSURE THAT THEY ARE WORKING PROPERLY. THESE INSPECTIONS MUST BE CONDUCTED WEEKLY, AND DURING OR IMMEDIATELY AFTER EVERY RUNOFF EVENT. THE INSPECTION WILL INCLUDE, BUT NOT BE LIMITED TO:

1) INSPECT ALL CONTROLS AND REPAIR OR REPLACE AS NEEDED.
2) INSPECT ALL SLOPES FOR SIGNS OF EROSION AND/OR SEDIMENTATION, AND REPAIR AS NEEDED.

AN ADEQUATE SUPPLY OF ADDITIONAL EROSION/SEDIMENTATION CONTROL MATERIALS (E.G., STRAW BALES, EROSION NETTING, PLASTIC COVERING, WIRE MESH, SAND AND BURLAP, SANDBAGS, ROCKS AND GRAVEL) MUST BE STOCKPILED ON-SITE. THESE SUPPLIES MUST BE USED FOR EMERGENCY REPAIRS TO/OR REPAIRS OF EXISTING SOIL EROSION AND SEDIMENTATION CONTROLS.

MAINTENANCE OF PERMANENT CONTROLS:
THE OWNER/DEVELOPER WILL MAINTAIN PERMANENT CONTROL FACILITIES.

CLEANING FREQUENCY AND ULTIMATE DISPOSAL OF WASTE:
CLEANING FREQUENCIES ARE SPECIFIED WITHIN THE MAINTENANCE SCHEDULE. SILT AND SEDIMENT REMOVED FROM ALL CONTROL MEASURES SHOULD BE MIXED WITH SOIL DURING EARTHWORK AND PROPERLY DISPOSED OF ON-SITE.

FILL PLACEMENT NOTES:

1) ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

2) ALL FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS.

3) FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

4) FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

5) FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES

CONSTRUCTION SEQUENCE

THE CONSTRUCTION PHASING/SEQUENCE IS PROPOSED TO PROCEED IN THE FOLLOWING SEQUENCE:

1. AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, AND A REPRESENTATIVE OF THE LOCAL CONSERVATION DISTRICT TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING.
2. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM, INC. AT 1-800-242-1776 FOR BURIED UTILITIES LOCATIONS.
3. STAKE OUT THE LIMIT OF DISTURBANCE FOR THE ACTIVE PORTION OF THE PROJECT.
4. INSTALL ROCK CONSTRUCTION ENTRANCE.
5. INSTALL ALL COMPOST FILTER SOCK PERIMETER PROTECTION.
6. PROCEED WITH SITE DEMOLITION AND HAUL-OFF OPERATIONS.
7. PREPARE WALL FOUNDATION AREAS PER GEOTECHNICAL ENGINEER'S DESIGN AND CONSTRUCT RETAINING WALLS.
8. AS THE CONSTRUCTION PAD AREA IS CLEARED, BEGIN EARTHWORK ACTIVITIES TO BRING SITE TO ROUGH GRADE ELEVATIONS. FILL SLOPE STABILIZATION SHOULD OCCUR IN 15 TO 25 FOOT VERTICAL INCREMENTS. NO MORE THAN 15,000 SQFT OF DISTURBED AREA WHICH IS TO BE STABILIZED BY VEGETATION SHOULD REACH FINAL GRADE BEFORE INITIATING SEEDING AND MULCHING.
9. BUILDING AND RETAINING WALL CONSTRUCTION MAY COMMENCE AFTER AREAS REACH FINAL GRADE ELEVATIONS. IMPORTANT: ANY OPEN FOUNDATION AREAS MUST BE PROTECTED FROM ACCUMULATING ANY STORMWATER RUNOFF. ANY STORMWATER THAT ACCUMULATES IN OPEN FOUNDATION AREAS MUST BE REMOVED VIA A PUMP AND FILTER BAG.
10. INSTALL CONCRETE WASHOUT FACILITY.
11. INSTALL SANITARY SEWER LATERALS AND CLEAN-OUTS TO CONNECT TO THE EXISTING SANITARY LATERAL ON THE ADJACENT PROPERTY. CONTRACTOR TO LOCATE AND PROTECT EXISTING SANITARY LATERAL DURING CONSTRUCTION AND DEMOLITION ACTIVITIES. LIMIT DAILY TRENCH EXCAVATION AND SANITARY LINE INSTALLATION TO THE LENGTH OF PIPE PLACEMENT, BEDDING, AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY (WEATHER PERMITTING).
12. INSTALL SITE STORM SEWER PIPES, STRUCTURES, AND UNDERGROUND STORAGE FACILITIES. INSTALL FILTER INLET PROTECTION IN ALL NEW INLETS AS THEY ARE INSTALLED. LIMIT DAILY TRENCH EXCAVATION AND STORM LINE INSTALLATION TO THE LENGTH OF PIPE PLACEMENT, BEDDING, AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY (WEATHER PERMITTING). NOTE THAT ALL STORM LINES MUST BE CONSTRUCTED AND INSTALLED FROM DOWNSTREAM TO UPSTREAM. IMPORTANT: STORMWATER RUNOFF IS NOT TO BE DIRECTED TO UNPROTECTED STORMWATER CONVEYANCE SYSTEMS UNTIL THE SITE IS AT FINAL GRADE AND STABILIZED. THE UNDERGROUND TANK INSTALLATION IS THE CRITICAL STAGE OF THE STORMWATER MANAGEMENT PLAN. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER ONE WEEK PRIOR TO EXPECTED RAINGARDEN CONSTRUCTION SO THAT THE INSTALLATION CAN BE OBSERVED.
13. INSTALL BUILDING UTILITY SERVICE LINES AND CONDUITS. LIMIT DAILY TRENCH EXCAVATION AND UTILITY LINE INSTALLATION TO THE LENGTH OF PIPE PLACEMENT, BEDDING, AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY (WEATHER PERMITTING).
14. FINE GRADE PARKING AREAS IN PREPARATION FOR PERMANENT SURFACING.
15. POUR AND APPROPRIATELY TOOL CONCRETE CURBING, PADS AND SIDEWALK AREAS.
16. PAVE PARKING AREAS AND ACCESS DRIVES. ALL REMAINING AREAS SHALL RECEIVE PERMANENT SEEDING AND ALL SEEDED AREAS ARE TO BE MULCHED.
17. WHEN SITE WORK IS COMPLETE AND ALL AREAS ARE STABILIZED, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs, INCLUDING, BUT NOT LIMITED TO, COMPOST FILTER SOCKS, INLET PROTECTION, THE ROCK CONSTRUCTION ENTRANCE, AND THE CONCRETE WASHOUT FACILITY.

EROSION AND SEDIMENTATION CONTROL NOTES

EROSION AND SEDIMENTATION CONTROL NOTES:

1. A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLANS, NOTES, AND DETAILS DRAWINGS (STAMPED/SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
2. ALL EARTH DISTURBANCE ACTIVITIES SHALL GENERALLY PROCEED IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE PROVIDED. BEFORE IMPLEMENTING ANY REVISIONS TO THE APPROVED ESCP OR REVISIONS TO OTHER PLANS THAT MAY AFFECT OR IMPACT THE EFFECTIVENESS OF THE APPROVED E&S CONTROL PLAN, THE OPERATOR MUST RECEIVE APPROVAL OF THE REVISIONS FROM THE LOCAL CONSERVATION DISTRICT OR DEP.
3. IN ADDITION TO THE PERMIT APPLICANT, INDIVIDUALS OR PARTIES WANTING TO CONDUCT INTRUSIVE EARTH DISTURBANCE ACTIVITIES ARE REQUIRED TO BE ADDED TO THE NPDES PERMIT AS A CO-PERMITTEE (IF NPDES APPLICABLE).
4. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INC. AT 1-800-242-1776 FOR BURIED UTILITIES LOCATION.
5. AT LEAST SEVEN (7) DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE OPERATOR SHALL INVITE ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, AND A REPRESENTATIVE OF THE LOCAL CONSERVATION DISTRICT TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION MEETING.
6. IMPORTANT: IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BMPS TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP) OFFICE.
7. ANTICIPATED WASTES INCLUDE SEDIMENT FROM E&S BMP'S, BUILDING MATERIALS FROM DEMOLITION, AND CONSTRUCTION WASTES.

   THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND CONSTRUCTION WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ. AND 287.1 ET SEQ. NO BUILDING MATERIALS, WASTES, OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED OR DISCHARGED AT THE SITE. THE FOLLOWING DEFINE WHAT SHOULD BE CONSIDERED "CONSTRUCTION WASTE" AND "CLEAN FILL":

   a. CONSTRUCTION WASTE - INCLUDES BUT IS NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY.

   b. CLEAN FILL - UNCONTAMINATED, NON-WATER-SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THIS INCLUDES SOIL, ROCK, STONE DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK, OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. IT DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE SURFACE WATERS UNLESS OTHERWISE AUTHORIZED, MILLED ASPHALT, OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.
8. ALL PARTIES RESPONSIBLE FOR THE EXCAVATION OF SITE MATERIALS OR THE IMPORT OF FILL MATERIALS ARE RESPONSIBLE TO ENSURE THAT "ENVIRONMENTAL DUE DILIGENCE" IN THE DETERMINATION OF CLEAN FILL MATERIAL IS EITHER REMOVED FROM THE SITE OR USED AS FILL FOR THE SITE. ANY MATERIAL IDENTIFIED AS HAZARDOUS MUST BE DISPOSED IN ACCORDANCE WITH ALL APPLICABLE STATE AND FEDERAL GUIDELINES AND REGULATIONS.

   ENVIRONMENTAL DUE DILIGENCE - INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF OWNERSHIP AND USE HISTORY OF PROPERTY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.
9. BEFORE DISPOSING OF SOIL OR RECEIVING BORROW FOR THE SITE, THE OPERATOR MUST ASSURE THAT EACH SPOIL OR BORROW AREA HAS AN ESCP APPROVED BY THE LOCAL CONSERVATION DISTRICT OF THE DEP, AND WHICH IS BEING IMPLEMENTED AND MAINTAINED ACCORDING TO CHAPTER 102 REGULATIONS. THE OPERATOR SHALL ALSO NOTIFY THE LOCAL CONSERVATION DISTRICT IN WRITING OF ALL RECEIVING SPOIL AND BORROW AREAS WHEN THEY HAVE BEEN IDENTIFIED.
10. THE ROCK CONSTRUCTION ENTRANCE WILL BE THE ONLY ENTRANCE USED BY CONSTRUCTION VEHICLES. NO CONSTRUCTION VEHICLES SHALL BE PERMITTED TO ENTER AREAS OUTSIDE OF THE LIMIT OF DISTURBANCE BOUNDARIES AS SHOWN ON THE E&S PLAN DRAWING.
11. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE ACTIONS NECESSARY TO PREVENT TRUCKS FROM DEPOSITING SEDIMENT ON THE PUBLIC STREETS. SEDIMENT TRACKED ONTO PUBLIC ROADWAYS OR SIDEWALKS SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED OF IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
12. REMOVE ALL DEMOLITION MATERIALS TO A SUITABLE DISPOSAL SITE IN A RESPONSIBLE MANNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL EXCESS MATERIAL OFF-SITE TO AN APPROVED FACILITY (AS PER NOTE 8, AND SEE NOTE 7 FOR THE DEFINITION OF CONSTRUCTION WASTES).
13. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO BE WITHIN THE IDENTIFIED DISTURBANCE LIMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL EXCESS MATERIAL OFF-SITE TO AN APPROVED FACILITY (AS PER NOTE 8 AND SEE NOTE 7 FOR THE DEFINITION OF CONSTRUCTION WASTES).
14. IMPORTANT: STORMWATER RUNOFF IS NOT TO BE DIRECTED TO UNPROTECTED STORMWATER MANAGEMENT SYSTEMS, STORMWATER CONVEYANCE SYSTEMS, OR INFILTRATION BED AREAS UNTIL THE SITE IS AT FINAL GRADE AND STABILIZED.
15. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SIDE SLOPES MUST BE 2H:1V MAXIMUM.
16. DURING UTILITY LINE CONSTRUCTION, EXCAVATE UTILITY LINE TRENCHES ONLY AS REQUIRED. LIMIT ADVANCE EXCAVATION TO A DISTANCE EQUAL TO TWO TIMES THE LENGTH OF PIPE INSTALLATION THAT CAN BE COMPLETED IN ONE DAY. LIMIT DAILY TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT, PLUG INSTALLATION AND BACKFILLING THAT CAN BE COMPLETED THE SAME DAY. TRENCH PLUGS, AS SHOWN ON THE DRAWINGS, ARE TO BE INSTALLED PER PADEP CHAPTER 102 REQUIREMENTS. WATER, WHICH ACCUMULATES IN THE OPEN TRENCH, WILL BE COMPLETELY REMOVED BY PUMPING INTO A FILTER BAG IN ACCORDANCE WITH PADEP CHAPTER 102 REQUIREMENTS. ON THE DAY FOLLOWING PIPE PLACEMENT AND TRENCH BACKFILLING, THE DISTURBED AREA WILL BE GRADED TO FINAL GRADE, AND SEEDED AND MULCHED PER THE PERMANENT SEEDING SCHEDULE.
17. FILTREXX SILTSOXX™, INLETSOXX™, RUNOFF DIVERSION SOXX™, AND ANY OTHER FILTREXX BMPS EMPLOYED AS PART OF THE ESCP FOR THE PROJECT MUST FOLLOW THE MANUFACTURER'S DISPOSAL/RECYCLING INSTRUCTIONS FOR EACH SPECIFIC BMP UTILIZED THROUGHOUT THE PROJECT'S CONSTRUCTION AND EARTHMOVING OPERATIONS.
18. DURING FOUNDATION CONSTRUCTION, PUMP WATER ACCUMULATED IN OPEN TRENCHES INTO FILTER BAGS IN ACC