Erosion Controls for Driveway Construction:

Before any site work is done a construction entrance shall be installed at the edge of Lake Road to prevent the tracking of any soil from the site. If sediment build up causes the construction entrance to lose its effectiveness, remove stone and filter fabric and stone.

Sit fence/nay bale berriers shall be placed along the edge of the driveway during construction to entrap sediment. Disturbed areas along sides of driveway shall be stabilized immediately after grading with temporary vegetation and permanently seeded and mulched at the end of construction.

Erosion Controls for Culvert Construction:

The culvert pipe shall be installed during times of low flow (e. Summer months) to minimize the potential of impacts to the surrounding wetland. Modified rip rap shall be installed at the inlet and outlet of the pipe to prevent crossion and to dissipate energy. Silf fence hay be a barriers shall be installed down gradient of the pipe outlet to collect sedimeduring construction. Disturbed areas shall be stabilized immediately after grading with

Erosion Controls for Lot Development:

Lot disturbence will be kept to a minimum, silt fence/hay bale burriers shall be placed down gardient of any lot excavation as proposed. Disturbed areas shall be stabilized immediately after grading with temporary vegetation and permanently seeded and mulched at the end of construction.

ALL CONSTRUCTION METHODS TO CONFORM TO CONN. D.O.T. FORM 816 \mbox{AND}/\mbox{OR} THE TOWN STANDARD SPECIFICATIONS.

ALL DRAINAGE EASEMENTS, UNLESS OTHERWISE NOTED, TO BE CONVEYED TO THE TOWN.

THE LOCATION OF ALL EXISTING UTILITIES SHOWN IS APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION OF EXISTING UTILITIES IN THE FELD PRIOR TO CONSTRUCTION AND FOR COORDINATING CONNECTION OF PROPOSED AND EXISTING UTILITIES.

ANY UNSUITABLE MATERIAL IN PAVEMENT AREAS TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AS DIRECTED BY THE TOWN.

ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE ROADWAY PAVEMENT. FOUNDATION DRAINS SHALL BE DEPICTED ON ALL PLOT PLANS

THE DRIVEWAY SHOULDERS SHOULD BE STABILIZED IMMEDIATELY UPON COMPLETION O ROUGH GRADING. SHOULDER SEED BED PREPARATION SHOULD FOLLOW THE GENERAL NOTES PROVIDED. HAY BALES OR FILTER FABRIC SHOULD BE USED TO ENTARP ANY SEDIMENT CENERATED FROM EXPOSED SOIL SUFFACES. DRIVEMAY ROADBEDS SHALL STABILIZED WITH COMPACTED ROAD ACCREGATE AS SOON AS POSSIBLE.

TOPSOIL AND EXCAVATED SUBSOIL FROM THE FOUNDATION AREA SHOULD BE STOCKPILED WITHIN THE AREA OF DISTURBANCE IF NOT USED FOR ONSITE REGRADING. EACH STOCKPILE MUST BE ADEQUATELY RINGED WITH SEDIMENT CONTROL MATERIALS (LE. HAY BALES AND/OR FABRIC FENCE.)

ANY ADDITIONAL STOCKPILING OF LUMBER OR BUILDING MATERIALS SHOULD ALSO BE COMPRED TO THE AREA OF DISTURBANCE. SIMILARY, VEHICULAR MOVEMENT SHOULD MEET SHOULD ALSO BE COMPRED TO THE AREA OF DISTURBANCE SIMILARY, VEHICULAR MOVEMENT SHOULD MUST NOT BE IMPACTED BY VEHICULAR TRAFFIC OR UNILUZED AS PARKING AREAS. DEVELOPMENT OF SEWAGE DISPOSAL LEACHING AREAS SHOULD BE STAGED TO FOLLOW HOUSE SITE PREPARATION. ONLY THE PRIMARY LEACHING SYSTEM NEED BE CLEARED OF EXISTING VEGETATION IN COORDINATION WITH APPROVED SEPTIC SYSTEM DESIGN. RESERVE AREAS SHOULD REMAIN UNALTERED IF SITE CONDITIONS PERMIT.

STUMPAGE AND DEBRIS SHALL NOT BE BURIED ON SITE. BLASTED ROCK THAT CANNOT B USED AS LANDSCAPE BACKDROP OR AS STABILIZATION MATERIAL SHALL BE TAKEN OFF SITE TO A SUTTABLE LOCATION.

THE PLOT PLAN SHALL INDICATE PROPOSED SEDIMENTATION AND EROSION CONTROLS. ALSO THE PROPOSED HOUSE LOCATION, LOT GRADING LIMIT OF TREE CLEARING, DRIVEWAY DESION, SPPTIC SYSTEM DESION AND SITE DASINAGE PLAN SHALL BE SHOWN. THESE PLANS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE TOWN

LEACHING FIELDS ARE TO BE LOCATED IN AREAS DESIGNATED ON SITE PLAN

IN CENERAL, ALL CONSTRUCTION ACTIVITES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WELLANDS, WATERCOURSE, WATERODY, AND CONDUIT CARPYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSORAR AS POSSIBLE, THE SUFFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION ADJACHT WELLANDS, WATERCOURSES AND WATERSOOIES, AND TO PREVENT, INSOFAR AS

LAND GRADING

GENERAL

- THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING BASIC CRITERIA:
- THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
- B) THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
- C) THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
- D) NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE, OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSE OR WATERBODY.
- E) INSTALLATION OF SEDIMENT AND EROSION CONTROLS SUCH AS HAY BALES AND SILT FENCES SHALL BE ESTABLISHED PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITIES. ALL SEDIMENT AND EROSION CONTROL STRUCTURES MUST BE MONITORED AND MAINTAINED BY THE CONTRACTOR UNTIL THE SOIL SURFACE IS STABILIZED.
- F) IF NECESSARY, LATERAL WATER DIVERSIONS SHALL BE INSTALLED ACROSS THE GRADED ROADWAY TO PREVENT DOWNSLOPE OUTWASH AND EROSION.
- G) HAY BALES SHALL BE STAKED AND SILT FENCES SHALL BE PROPERLY SECURED. SEDIMENT WILL BE REMOVED FROM ALL CATCHMENTS AS NECESSARY.
- H) PRIOR TO ANY REGRADING, STONE APRON SHALL BE PLACED BY THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE
- PROVISIONS SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS, TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
- J) EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTING OR CRACKING

- TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH AND MAINTENANCE OF VEGETATION.
- 2. REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS, AND CONSTRUCTION DEBRIS.
- 3. APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.

- TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
- 2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
- AN ORGANIC MATTER CONTENT OF BETWEEN 6 AND 20 (6-20%) PERCENT IS HIGHLY DESIRABLE. AVOID LIGHT COLORED LOWER SUBSOIL MATERIAL.

- 1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
- 2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST FOUR (4") INCHES.

EROSION CHECKS

TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND, OR SEDIMENT FILTER FABRIC FASTEMED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

- 1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- 2. EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.

INSTALLATION AND MAINTENANCE:

- 1. BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
- . BALED HAY EROSION BARRIERS AND SEDIMENT FILTER FENCES SHALL BE INSTALLED AT THE LOCATIONS INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
- 3. ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED
- INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

WINDBLOWN SEDIMENT

ALL HINDELLOWS SEDIMENTS SHALL BE CONTROLLED AT ALL TIMES. THE SITE CONTRACTOR IS RESPONSIBLE FOR A PRYING DUST CONTROL AS OFFEN AS NEEDED TO PREVEN BY A RESPONSIBLE FOR ALL PREVING DUST CONTROL AS OFFEN AS NEEDED TO PREVENT AS OFFEN AS NEEDED TO PREVEN AS NEEDED TO SHALL BE ESTABLISHED BY THE SITE CONTROL TO STABILIZED ROUTES. TEMPORARY AND PERMANENT MILLCHING AND TEMPORARY AND PERMANENT MECHANICAL SWEEPERS SHALL BE USED TO MINIMIZE THE NEEDE FOR DUST CONTROL. MECHANICAL SWEEPERS SHALL BE USED ON ALL PAVED SURFACES TO PREVENT DUST BUILD UP DURING THE COURSE OF SITE WORK.

- SPRAY ON ADHESIVES ARE ACCEPTABLE AND SHOULD BE APPLIED ACCORDING TO MANUFACTURER'S GUIDELINES.
- 2. WATER IS ACCEPTABLE BUT MUST BE APPLIED OFTEN IN HOT, DRY WEATHER.
- CALCIUM CHLORIDE IS ACCEPTABLE BUT MUST BE APPLIED AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE.
- 4. CRUSHED STONE OR COARSE GRAVEL CAN ALSO BE USED.

TEMPORARY VEGETATIVE COVER

LIMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT, AREAS WHERE FINAL GRADING HAS BEEN COMPLETED AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 12 MONTHS.

- 1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
- 2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
- APPLY LIME ACCORDING TO SOIL TEST OR AT A RATE OF ONE (1) TON OF GROUND DOLOMITIC LIMESTONE PER ACRE (5 LBS. PER 100 SQUARE FEET).
- APPLY FERTILIZER ACCORDING TO SOIL TEST OR AT THE RATE OF 300 LBS. OF 10-10-10 PER ACRE (7 LBS. PER 1,000 SQUARE FEET.)
- UNLESS HYDROSEEDED, WORK IN LIME AND FERTILIZER TO A DEPTH OF FOUR (4") INCHES USING A DISK OR ANY SUITABLE EQUIPMENT.
- TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM, LOOSE SEEDBED. WORK ON CONTOUR
 IF SITE IS SLOPING.

- USE ANNUAL RYEGRASS AT A RATE OF 40 LBS/AC. OR SUITABLE EQUIVALENT AS SPECIFIED IN THE "GUIDELINES".
- SEEDING TO BE DONE FROM APRIL 1ST TO JUNE 15 OR AUGUST 1ST TO OCTOBER 1ST. WINTER STABILIZATION, PLANTINGS TO BE NO LATER THAN OCTOBER 1ST. THIS INCLUDES STOCKPILE AREAS.
- APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING DRILLING, OR HYDRAULIC APPLICATION.
- UNLESS HYDROSEEDED, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT. COVER SUDANGRASS AND SMALL GRAINS WITH 1/2 INCH SOIL.
- MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO THE GUIDELINES IN THE "GUIDELINES".

PERMANENT VEGETATIVE COVER

PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABLISE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF AND IO ENHANCE THE ASSISTENCE NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

- 1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
- 2. REMOVE LOOSE ROCK, STONE AND CONSTRUCTION DEBRIS FROM AREA
- 3. PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
- 4. APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
- 5. APPLY FERTILIZER ACCORDING TO SOIL TEST OR:

 $-\,$ Fall Seeding; work deeply in soil, before seeding, 600 LBS of 10–10–10 fertilizer per acre (14 LBS per 1,000 square feet).

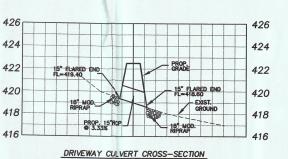
- SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
- 2. SELECT ADAPTED SEED MIXTURE AS FOLLOWS. NOTE RATES AND THE SEEDING DATES.

	LBS./ACRE	LBS./1000 S.
KENTUCKY BLUEGRASS CREEPING RED FESCUE PERENNIAL RYEGRASS	20 20 05	0.50 0.50 0.10
TOTAL	45	1.10
SHADY SITES		
CREEPING RED FESCUE PERENNIAL RYEGRASS	50 05	1.00 0.10
TOTAL	55	1.10
DROUGHTY SITES		
CREEPING RED FESCUE TALL FESCUE	40 20	1.00 0.50

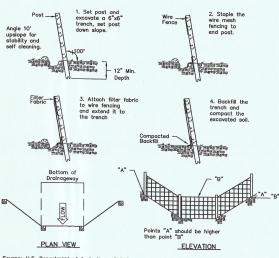
3. FINAL SEEDING SHALL TAKE PLACE PRIOR TO OCTOBER 1ST AS SEEDING AFTER THIS DATE RUNS A DISTINCT CHANCE OF FAILIRE DUE TO ADVERSE WEATHER. ANY AREAS THAT ARE DISTURBED ENTERON COTOBER 1ST AND APPIL 1ST SHALL BE STABILIZED BY ANY OF THE STABILIZED AND ANY OF THE STABILIZED AND ANY OF THE STABILIZED AND THE STABILIZED ANY OF THE STABILIZED AND THE STABILIZED AND THE STABILIZED ANY OF THE STABILIZED AND THE STABILIZED ANY OF THE STABILIZED ANY O

TOTAL 60 1.50

- APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
- COVER GRASS AND LEGUME SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEDING).
- MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED, ACCORDING TO THE GUIDELINES IN THE "GUIDELINES".
- USE PROPER INOCULANT ON ALL LIGUME SEEDINGS, USE FOUR (4) TIMES NORMAL RATE WHEN HYDROSEEDING.

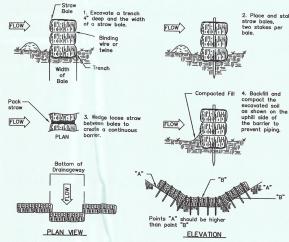


SCALE: HORZ. 1"=40' VERT. 1"=4'

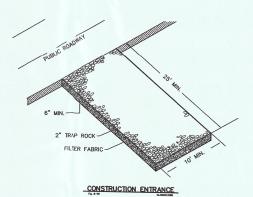


Source: U.S. Department of Agriculture, Soil Conservation

PLACEMENT AND CONSTRUCTION OF A SYNTHETIC FILTER BARRIER



PLACEMENT AND CONSTRUCTION OF A STRAW BALE BARRIER



2:1 MAX 3% CROSS SLOPE WHERE NECESSAR 8" BANKRUN GRAVE 12' DRIVE DETAIL

CK. BY: JLH DRW. BY: JHS DATE: 6-6-05 SCALE: 1"=40" SHEET 2 OF 2 MAP NO. 212-95-1SP

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