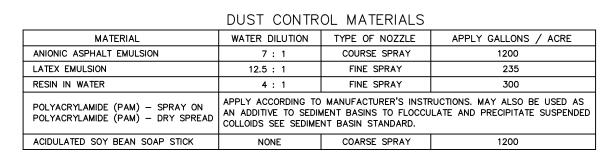


" TO 2 1/2" CLEAN -STONE FILTER

BERMS

STEEL OR 2x2 WOODEN STAKE KEY-IN BALES TO PREVENT EROSION OR FLOW UNDER BALES ~ 4" MIN. STAKED HAYBALE DETAIL

NOT TO SCALE

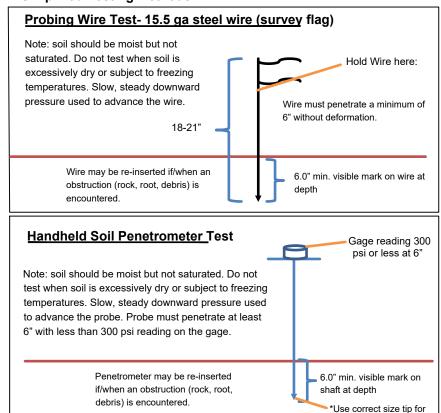


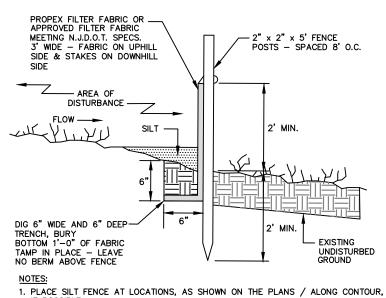
<u>TILLAGE:</u> TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL PLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12" APART & SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING: SITE IS SPRINKLED UNTIL SURFACE IS WET.

- BARRIERS:
   SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, HAY BALES AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

   CALCIUM CHLORIDE:
   SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION
- OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS, OR ACCUMULATION AROUND PLANTS. STONE: COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.
  - Simplified Testing Methods

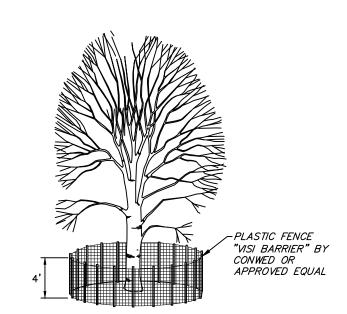




soil type

- PLACE SILT FENCE AT LOCATIONS, AS SHOWN ON THE PLANS / ALONG CONTOUR IF POSSIBLE.
   SILT FENCE MUST BE REINFORCED WHEREVER IT WILL RECEIVE CONCENTRATED RUNOFF (USUALLY AT LOW POINTS).
- USE STAKED HAYBALES OR BERM OF CLEAN STONE (1 1/2" 2 1/2", PILED TO A MINIMUM HEIGHT OF 2 FT.).
- 3. INSPECTION SHALL BE FREQUENT / AFTER STORMS AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS POSSIBLE.
- 4. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.

SILT FENCE DETAIL



<u>NOTES:</u>

- FENCING SHALL BE INSTALLED AT THE DRIP LINE.
   BOARDS SHALL NOT BE NAILED TO TREES DURING CONSTRUCTION.
- 3. FEEDER ROOTS SHALL NOT BE CUT IN AREA INSIDE THE DRIP LINE. 4. DAMAGED TRUNK OR EXPOSED ROOTS SHALL BE IMMEDIATELY PAINTED
- WITH A GOOD GRADE OF TREE PAINT. CARE FOR SERIOUS INJURIES SHALL BE PRESCRIBED BY A LICENSED TREE EXPERT.
- 5. REFER TO PLAN SHEETS FOR LOCATION OF WOODS AND TREES TO REMAIN. ALL TREES TO REMAIN WHICH ARE ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED IN ACCORDANCE WITH THIS DETAIL.

TREE PROTECTION DETAIL

## SOIL EROSION AND SEDIMENTATION NOTES AND SPECIFICA

- The Hunterdon County Soil Conservation District requires an advanced 48-hour <u>written</u> notification prior to the start of any land disturbance to the start of construction will result in the issuance of a Stop Construction Order and may be cause for legal action. Notice may be faxed to Hunterdon County Soil Conservation District 687 Pittstown Road Frenchtown, NJ 08825
- . Land disturbance and construction work start includes any demolition or clearing that takes place on the project site. Appropriate Soil Erosic must be installed and maintained at the proposed demolition areas.
- 8. The project applicant and contractor are to be aware that additional Soil Erosion and Sediment Control measures may be required b Municipal Engineer if field conditions or unforeseen situations warrant them.
- 4. The Hunterdon County Soil Conservation District encourages the installation and stabilization of permanent detention or retention facilities is particularly important on account of the steep topography and soils of Hunterdon County. Priority should to be set on construction of basin facility prior to any significant amount of land disturbance. Sediment risers can be used on a detention basin at any time as long as the Erosion and Sediment Control Standards. If a Sediment Basin is designed, as either within the permanent basin area or as a stand-alone compliance with the Standards and are to be properly maintained during construction. All detention/retention basins be completed and conduit outlet protection and low-flow channel) before any storm drainage piping is installed to the basin and same piping is functioning project site until all stormwater detention/retention facilities are adequately stabilized as per plan. Failure to maintain a detention, retent order during construction may be grounds for issuance of a stop construction order by the Soil Conservation District.
- 5. The Hunterdon County Soil Conservation District does not support nor endorse mass excavation. The amount of soil disturbed at one time to a minimum. It is the policy of the Hunterdon County Soil Conservation District that large disturbances of soil exposed at one time on and time-line for getting areas stabilized. The standard for sediment barriers will be used for limiting large areas of excavation. If exca sediment barrier standard, then additional measures are to be designed and detailed and a detailed sequence of construction be submitted for minimum, soils exposed for longer than 30 days will require temporary stabilization following the Agronomic Specifications on the plan.
- A copy of the certified Soil Erosion and Sediment Control Plan is to be kept on the project site during construction and available fo Conservation District Inspectors.
- The land disturbance is to proceed in accordance with the approved sequence of construction and the certified plan. All required soil ero must be installed and maintained as outlined in the plan.
   The Soil Conservation District is to be notified and represented at a preconstruction conference (usually held at the municipal engineers off
- or any land disturbance.9. All disturbed areas that are not being graded, not under active construction, or not scheduled to be permanently seeded within 30 days in the second secon
- specifications below. 10. All exposed areas which are to be permanently vegetated, are to be seeded and mulched within 10 days of final grading.
- 11. Straw mulch (hay mulch may be substituted if approved by the District) is to be applied to all seedings at a rate of 1-1/2 to 2 tons per acre (
- Mulch anchoring is required after mulching to minimize loss by wind or water. This is to be done using one of the methods (crimping, lie the "Standards for Soil Erosion and Sediment Control in New Jersey".
- Existing weedy and poorly-vegetated areas with less than 80 percent perennial grass cover must receive permanent stabilization as per these
   All bags need to be saved for lime, fertilizer, seed, and liquid mulch binder (if mulch anchoring method). Such proofs need to be su
- verification of materials and quantities used for all seedings.
  15. An additional fee per inspection (as per the current Hunterdon County Soil Conservation District Fee Schedule at the time of inspection) vadditional inspections are necessitated as a result of non-compliance with the approved plan. This includes additional inspections per Report of Compliance inspection. The entire project site is inspected at the time of a request for Report of Compliance.
- 16. Soils in Hunterdon County require that all stone tracking pads (stabilized construction entrance) be installed at a minimum of 100 ft. in len and 200 ft. for access grades greater than 2%. This requirement is the same, regardless if main project entrance or individual dwellin measures approved by the Soil Conservation District are to be installed at all construction accesses to pavement. See detail plan sheet \_\_\_\_. The construction entrance shall be maintained in a condition that will prevent tracking or flowing of sediment onto roadways. This ma additional stone or additional length as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sedim tracked onto roadways (public or private) or other impervious surfaces must be removed immediately.
- Where accumulating of dust/sediment is inadequately cleaned or removed by conventional methods, a power broom or street sweeper view impervious surfaces. All other access points, which are not stabilized, shall be adequately blocked off.
  17. Conduit Outlet Protection (rip-rap aprons or scour holes) must be designed and installed at all pipe outlets as per the certified plans and stabilized.
- Sediment Control in New Jersey. Conduit Outlet Protection must be designed and instance at an pipe outlets as per the certified plans a Sediment Control in New Jersey. Conduit Outlet Protection must be installed immediately following pipe installation and prior to any pip must be maintained as per design until the completion of the project and issue of final Report of Compliance. See Conduit Outlet Protect plan sheet \_\_\_\_.
- 18. All stormwater inlet protection needs to be maintained periodically with fresh haybales or clean stone berms (stone sized 1 1/2"-2 1/2") encircle, but not block the inlets. See detail on plan sheet \_\_\_\_.
  Inspections of stormwater inlet protection shall be frequent. Maintenance, repair, and replacement shall be made promptly, as not placement shall be made promptly.
- maintained until all areas of the site, or as a minimum the area draining to the inlet, are permanently stabilized and approved by Soil Co 19. Dust control measures are to be used during all phases of construction of the project. See Standards for Soil Erosion and Sediment Control See Dust Control Materials table on plan sheet
- 20. All trees that are to be protected from environmental and mechanical injury during construction are to be adequately marked in fenced-off during construction. For further information see Standards for Soil Erosion and Sediment Control in New Jersey pages 9-1 through 9-7. plan sheet \_\_\_\_.
- 21. Dewatering methods are to be followed to properly remove suspended sediments in water from excavations and/or trenches prior to dis watercourses. These methods are to follow those found in the Standards for Soil Erosion and Sediment Control in New Jersey, pages 14-1t
- 22. On subdivision plans, individual lots on steep slopes (greater than 10%) or in close proximity to a drainageway, require an indi Control/Grading to be submitted and certified prior to obtaining a building permit and before any land disturbance on that lot. These indiv revisions to a certified plan and will be subject to a resubmission fee for review and certification as per the current Hunterdon County Soil at the time of submission The lots requiring individual lot plans for this project are \_\_\_\_\_.
- 23. As per the Traffic Control Standard in the Standards for Soil Erosion and Sediment Control in New Jersey (page 33-1) steep banks, we sensitive areas are to be avoided by construction traffic. Wetland buffer and wetland areas are to be adequately marked in field prior to construction.
- 24. Any former agricultural crop fields that are either in crops, crop residue, or annual weed cover are to be stabilized following the Agro County. This is to be either a cover crop from the period of last harvest and construction start-up or temporary stabilization through seedi going to be either built on or continued to be farmed are to receive permanent stabilization.
- 25. If excess fill or any other material is to be removed from the site, the project owner/applicant shall be responsible for its proper disposal a Soil Conservation District as to the planned disposal site location. If applicable, a Soil Erosion and Sediment Control Plan must be submir Hunterdon County Soil Conservation District prior to any material removal from the project site. Removal of any soil material fre authorization from the Hunterdon County Soil Conservation District is a violation of the state Soil Erosion and Sediment Control Act.
- 26. Stockpiling of fines (sand, quarry-process-blend, etc.) is not allowed on paved surfaces of the project site.27. Any gabion baskets used on the project are to be coated with plastic or PVC and filled with 4"-7" angular rock. The gabion thickness is to
- size of a regular rip-rap apron. Filter fabric is to be installed between the subgrade and the gabions.28. The limits of disturbance shown on the plans are not to be exceeded unless authorized by the Hunterdon County Soil Conservation Dist certification.
- 29. All disturbed roadside areas need to be topsoiled, final-graded, limed, fertilized, seeded, mulched, and mulch-anchored (following Dipermanent Seeding) for a minimum distance approved by the District back from the curb-line prior to approval of permanent improvement.
  30. The Hunterdon County Soil Conservation District does not recommend the use of rip-rap D50 sizes smaller than 6" for aprons or scour hol
- tend to wash/erode under high intensity rain storms. The Hunterdon District recommends that the smallest D50 stone size be specified a with filter fabric or 18" without fabric.
- 31. Temporary diversions to direct water off of a graded right-of-way onto a stable area are needed during construction. For further inform Erosion and Sediment Control in New Jersey, (page 15.3 item 2 and figure 15-4) for the required dimensions and spacing. See detail and space of the second stable area are needed during construction. For further inform Erosion and Sediment Control in New Jersey, (page 15.3 item 2 and figure 15-4) for the required dimensions and spacing. See detail and space of the second stable area are needed during construction.
- 32. A sediment barrier must be installed above any detention/retention basins (between the roadway/building construction and detention ba basin newly graded/seeded areas while the other construction is being completed and all upstream areas are permanently stabilized.
- 33. Hydroseeding/Hydromulching are not recommended practices in Hunterdon County due to the high failure rate of seedings, steep topog poor ground surface coverage. All seed must be incorporated into the soil. Hydroseeding equipment may be used in conjunction with anchoring the mulch with liquid mulch binders.
- 34. If subsurface water problems are discovered during construction, they will be rectified following the Standards for Soil Erosion ar (Subsurface Drainage, page 32-1 through 32-4).
- 35. All development roadways are to be kept scraped/swept to remove sediment accumulations along curbs and around stormwater inlets.36. The maximum allowable vegetated slope is 2:1. Slopes in excess of 3:1 (between 2:1 and 3:1) require temporary erosion control maximum allowable vegetated slope is 2:1.
- equivalent, for stabilization. The matting is to be properly installed with specified overlap, check slots, anchoring spacing, and anchoring d 37. All disturbed areas that are not being graded, not under active construction, or not scheduled to be permanently seeded within 30 days must
- Agronomic Specifications. 38. A Report of Compliance from the Soil Conservation District is required for each dwelling lot prior to issuance of a Certificate of Occupa
- comply with the Soil Erosion and Sediment Control Plan for the project will be cause for compliance failure on an individual lot.
- 39. It is the owner/applicants responsibility to notify the District of all property conveyances and sale of individual lots on a project. Soil Applications are to be filed by any new owners on projects/lots where construction activities are to still take place.
- 40. Pursuant to the New Jersey Soil Erosion and Sediment Control Act, Chapter 251, P.L. 1975, the Hunterdon County Soil Conservation Di project and certifies the Soil Erosion and Sediment Control Plan. The approval of the Soil Erosion and Sediment Control Plans by The So the soil erosion, sedimentation, and related stormwater management controls specified in this plan. It is not authorization to engage municipality or other controlling agency has previously approved such use.
- 41. Plans submitted to the Hunterdon County Soil Conservation District must be consistent with plans any plans submitted to a regulatory a etc. Any revisions required by any reviewing authority would require a resubmission to the District for review.
  42. All revisions and municipal renewals of this project will require resubmission and approval by the Soil Conservation District.
- 43. Report of Compliance: A Report of Compliance approving permanent stabilization measures (or a Soil Erosion and Sediment Contra temporary stabilization for the winter season) is to be issued by the Soil Conservation District on all projects at their completion. If (permanent or temporary) can be granted by the municipality or state, a written Report of Compliance must be issued by the Soil Conserva-
- 44. Pursuant to authority granted by N.J.S.A. 4:24\_47, The Hunterdon County Soil Conservation District periodically inspects the project si Soil Erosion and Sediment Control Plans and the state Soil Erosion and Sediment Control Act. Failure to comply with the plans and the a penalties, pursuant to N.J.S.A. 4:24\_53. The maximum statutory penalty provided by law for violations of the Soil Erosion and Sediment each day and an injunctive order of the Superior Court.
- 45. It is policy of the Hunterdon County Soil Conservation District to periodically evaluate all projects to determine if the costs for review Prior to the fees being exceeded an additional fee will be assessed. This fee will be based on the incomplete portion(s) of the project, regan or not, as per the current Hunterdon County Soil Conservation District Fee Schedule at the time of evaluation.
- 46. Soil Compaction: Areas of travel within a project site and/or staging and parking areas may have soils compacted during the course compaction is to be corrected prior to any permanent stabilization and completion of project. The Topsoiling Standard (NJ SE&SC Standar is compaction, the surface is to be scarified 6" to 12" prior to applying topsoil for permanent stabilization. The Soil Conservation Dist employed prior to any permanent stabilization and prior to issue of any Report of Compliance. Where topsoil is not being stripper compaction test may be used to verify that construction traffic has not caused a soil compaction problem to the site.

ATIONS	AGRONOMIC SPECIFICATIONS FOR LAWNS AND CONSTRUCTION SITES	
tee. A failure of this notification prior to (908) 788-0795 or mailed to:	1. All disturbed areas that are not being graded, not under active construction, or not scheduled to be permanently seeded within 30 days must be temporarily stabilized as per specifications below.	
( · · ) · · · · · ·	2. All exposed areas which are to be permanently vegetated, are to be seeded and mulched within 10 days of final grading.	
osion and Sediment Control measures	<ol> <li>Straw mulch (hay mulch may be substituted if approved by the District) is to be applied to all seedings at a rate of 1-1/2 to 2 tons per acre (approx. 100 to 130 bales per acre).</li> <li>Mulch anchoring is required after mulching to minimize loss by wind or water. This is to be done using one of the methods (crimping, liquid mulch binders, nettings, etc.) in the "Standards for</li> </ol>	Soil
sion and securient control measures	Erosion and Sediment Control in New Jersey".	bon
by the Soil Conservation District or	5. Existing weedy and poorly-vegetated areas with less than 80 percent perennial grass cover must receive permanent stabilization (as specified below). This is to include all acreage of the subject property and/or former cropland fields that were left fallow.	
ies from the start of the project. This	6. All bags need to be saved for lime, fertilizer, seed, and liquid mulch binder (if mulch anchoring method). Such proofs need to be submitted to the District inspector for verification of materials quantities used for all seedings.	and
f any the detention basin or retention they meet the criteria of the state Soil e basin, they are to be design fully in	7. An additional fee of \$125.00 per inspection will be assessed on those sites where additional inspections are necessitated as a result of non-compliance with the approved plan. This includes	
d <u>permanently stabilized</u> (along with g. No paving is to take place on the	additional inspections performed after the failure of an initial Report of Compliance inspection. The entire project site is inspected at the time of a request for Report of Compliance.	
tion, or sediment facility in working	SEEDBED PREPARATION FOR ALL SEEDINGS	
e, and subject to erosion, is to be kept	SUB-SOIL PREPARATION: Immediately prior to seeding and topsoil applications, the surface should be scarified to a depth of 6" to 12" where there has been soil compaction (e.g. areas of heavy construction traffic). This practice is to be applied to all compacted areas where there is no danger to underground utilities (cables, irrigation systems, etc.).	
a project will require a detailed plan avations are proposed that exceed the	TOPSOILING: Areas to be seeded should have a minimum of 5" of friable, loamy, topsoil free of objectionable weeds, stones and debris.	
or re-certification and approval. As a	FINAL GRADING: Grading is to be smooth of ruts and free of objectionable stones, depressions, vehicle tracks, and rough edges. There is to be positive drainage away from all buildings and dwellings. Refuse from seedbed preparation (roots, sticks, stones, construction debris) must be disposed of properly.	
or review by the contractor and Soil	LIMING/FERTILIZING: Apply limestone and fertilizer to soil test recommendations or as follows:	
osion and sediment control measures	A. Lime is to be applied at the rate of 2 tons (4,000 lbs.). per acre. Lime may be any product type as long as the CCE Calcium Carbonate Equivalency = 2 tons per acre. Pelletized and liquid prod may be preferred because their lack of dust and ease of handling but must meet the fore-mentioned criteria.	lucts
	<ul> <li>B. Starter fertilizer, specified as 10-20-10, is to be applied at 500 lbs. per acre.</li> <li>C. Lime and fertilizer are to be worked into the soil to a depth of 4 inches.</li> </ul>	
fice) prior to the start of construction	TEMPORARY STABILIZATION WITH MULCH ONLY	
must be temporarily stabilized as per	Straw mulch (hay mulch may be substituted if approved by the District) is to be spread uniformly at the rate of 2 to 2 1/2 tons per acre (total ground surface coverage). This practice is limited to	1
	periods when vegetative cover cannot be established due to the season or other conditions. Mulch must be anchored in accordance with New Jersey Standards for Soil Erosion and Sediment Contro Mulch alone can only be used for short periods and will require maintenance and renewal. Other mulch materials may be utilized if approved by the District.	л.
(approx. 100 to 130 bales per acre).	TEMPORARY SEEDING	
iquid mulch binders, nettings, etc.) in	Temporary seeding is to be used on all disturbed areas where permanent stabilization will not be accomplished for a period of up to 6 months.	
e specifications.	Product     Rate     Recommended optimum seeding dates       Perennial Ryegrass     100 lbs. per acre     3/15-5/15 & 8/15-10/1	
ubmitted to the District inspector for	Spring Oats         86 lbs. per acre         3/15-6/1 & 8/1-10/1           Winter Cereal Rye         112 lbs. per acre         8/1-11/15	
	Winter Barley96 lbs. per acre8/15-10/1Pearl Millet20 lbs. per acre5/15-8/15	
will be assessed on those sites where formed after the failure of an initial	German or Hungarian Millet 30 lbs. per acre 5/15-8/15	
ngth for roadway grades of 0% to 2%	STABILIZATION WITH SOD Stabilization with sod is permitted in areas where maintenance and irrigation are adequate to insure proper establishment and longevity. Seedbed preparation is to be consistent with any other	
ng lot. Stone tracking pads or other	stabilization requirements. (Lime and fertilizer bags are to be retained for District inspection). On slopes greater than 3 to 1, sod must be properly anchored to the slope in accordance with the NJ Standards for Soil Erosion and Sediment Control.	
ay require periodic top dressing with	PERMANENT SEEDING	
ment spilled, dropped, washed, or	<ul> <li>A. Seed is to be incorporated into the soil to a depth of 1/4" - 1/2".</li> <li>B. Lawn seedings are to be a mixture of bluegrass, turf-type fescues, and turf-type perennial ryegrasses to insure longevity, tolerance, and durability. No seed shall be accepted with a germination</li> </ul>	
will be required to clean paved or	<ul> <li>tawn security are to be a mixture of one grass, thirtype rescues, and thirtype pereininal ryegrasses to insure longevity, toterance, and durability. No seed shall be accepted with a germination test date of more than 12 months old unless retested.</li> <li>C. Professional seed mixtures are recommended rather than mixing seeds yourself.</li> </ul>	
and Standards for Soil Erosion and	<ul> <li>D. Seed mixture (as specified below) is to be applied at a minimum rate of 200 lbs. per acre of perennial seed.</li> <li>E. Optimum seeding period for Hunterdon County is from March 1 to May 15 and August 15 to October 1. Outside of those periods, the seeding rates are to be increased by 50% (i.e.: 300 lbs. per</li> </ul>	r
ipe flow. Conduit Outlet Protection ction detail and specification table on	acre of perennial seed instead of the required 200 lbs. per acre during optimum periods). F. Seedings should receive an application of fertilizer such as 10-10-10 or equivalent at 400 lbs. per acre approximately 6 months after first application.	
	SEEDING MIXTURE FOR GENERAL SEEDING - (example: lawns)	
) or approved method to completely	40% turf-type tall fescue60% Kentucky bluegrass10% creeping red fescueOR20% turf-type perennial ryegrass	
needed. Inlet protection needs to be Conservation District Inspectors.	10% chewings fescue 20% chewings fescue 10% Kentucky bluegrass	
ol in New Jersey pages 16-1 and 16-2.	30% turf-type perennial ryegrass	
	SEEDING MIXTURE FOR HIGH TRAFFIC & CRITICAL AREAS (examples: athletic fields, waterways, diversions, etc.)	
For to construction and maintained See proper tree protection detail on	80% turf-type tall fescue 10% Kentucky bluegrass	
ischarge to downstream areas and/or	10% turf-type perennial ryegrass	
to 14-7.	Other seed mixtures, such as blended varieties of perennial turf-type ryegrasses, turf-type tall fescues, or bluegrasses may also be acceptable if approved by the District.	
lividual Soil Erosion and Sediment vidual lot plans are considered minor	Soil De-compaction and Testing Requirements	
il Conservation District Fee Schedule	Soil Compaction Testing Requirements 1. Subgrade soils prior to the application of topsoil (see permanent seeding and stabilization notes for topsoil requirements) shall be free of excessive compaction to a depth of 6.0 inches to enhance the	
etland buffers, waterways, and other construction and maintained during	<ul> <li>establishment of permanent vegetative cover.</li> <li>Areas of the site which are subject to compaction testing and/or mitigation are graphically denoted on the certified soil erosion control plan.</li> </ul>	
e	3. <u>Compaction testing locations</u> are denoted on the plan. a copy of the plan or portion of the plan shall be used to mark locations of tests, and attached to the compaction remediation form, available from the loc soil conservation district. this form must be filled out and submitted prior to receiving a certificate of compliance from the district.	
nomic Specifications for Hunterdon ing and mulching. Areas that are not	4. In the event that testing indicates compaction in excess of the maximum thresholds indicated for the simplified testing methods (see details below), the contractor/owner shall have the option to perform eithe (1) compaction mitigation over the entire mitigation area denoted on the plan (excluding exempt areas), or (2) perform additional, more detailed testing to establish the limits of excessive compaction whereupon only the excessively compacted areas would require compaction mitigation. additional detailed testing shall be performed by a trained, licensed professional.	r
and will notify the Hunterdon County	Compaction Testing Methods	
itted to, reviewed and certified by the rom the project site without written	A. Probing wire test (see detail)	
	<ul> <li>B. Hand-held penetrometer test (see detail)</li> <li>C. Tube bulk density test (licensed professional engineer required</li> </ul>	
to be at least the calculated stone D50	D. Nuclear density test (licensed professional engineer required)	
	Note: Additional testing methods which conform to astm standards and specifications, and which produce a dry weight, soil bulk density measurement may be allowed subject to district approval.	
trict and a revised plan submitted for	Soil Compaction Testing Is Not Required_if/when subsoil compaction remediation (scarification/tillage (6" minimum depth) or similar) is proposed as part of the sequence of construction. Procedures For Soil Compaction Mitigation	
District Agronomic Specifications for	procedures for Son Compaction Mingation and prior to placement of topsoil and establishment of permanent vegetative cover.	
les since smaller stone sizes (3" or 4")	Restoration of Compacted Soils shall be through deep scarification/tillage (6" minimum depth) where there is no danger to underground utilities (cables, irrigation systems, etc.). in the alternative, another method specified by a new jersey licensed professional engineer maybe substituted subject to district approval. (see detail for simplified testing methods)	as
as 6" with thickness specified as 12"		
mation refer to the Standards for Soil		
spacing on plan sheet		
asin). This is to protect the detention		
graphy, poor seed-to-soil contact and a straw/hay mulch for the purpose of		
i shawinay match for the purpose of		
nd Sediment Control in New Jersey		
natting, such as excelsior "curlex" or device type, gauge, and size.		
ist be temporarily stabilized as per the		
	REV. DATE DESCRIPTION B	3Y
ancy on that lot. Failure to maintain or		AH
il Erosion and Sediment Control Plan		
District has reviewed the plans for this		
Soil Conservation District is limited to in the proposed land use unless the		
agency such as NJDEP, municipality,		
	FREY ENGINEERING, LLC	
ol Completion Bond Agreement with Before any Certificate of Occupancy	1117 STATE HWY 31 LEBANON, NEW JERSEY 08833	
ation District.	Phone 908-238-0502 www.freyengineering.com	
ite for compliance with the Certified act may be cause for court action and	No. 24GA2807300	
t Control Act is a fine of up to \$3,000	Frey Engineering, LLC Preliminary Site Plan & Major Subdivisio	)n
v and inspection exceed the paid fees.	S.E.S.C. DETAILS & NOTES	
ardless if presently under construction		
rse of project construction. All soil lards page 8-2) states that where there	PROPOSED IN-DOOR TENNIS COURTS	
	DRAINT SWITZLER PREPARED FOR: TAX MAP SHEET 16, BLOCK 55, LOT 2	
	TAX MAP SHEET 16, BLOCK 55, LOT 2 DELAWARE TOWNSHIP, HUNTERDON COUNTY, NJ	
	CHK: SCALE: AS SHOWN DRAWING NO. REV.	NO
	JAMES A. HILL NJ Professional Engineer ENG. JAH CAD FILE NO. Switzler SD 2021 C-6 1	
	License No. 30190 DATE: JULY 2020 SHEET	