MERCER COUNTY SCD REQUIRED SOIL EROSION AND SEDIMENT CONTROL NOTES

THE MERCER COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS

IF APPLICABLE TO THIS PROJECT, THE OWNER SHOULD BE AWARE OF HIS OR HER

(WWW.NJ.GOV/DEP/ONLINE) AND TO MAINTAIN THE ASSOCIATED BEST MANAGEMENT

LOGBOOK ONSITE AT ALL TIMES. THIS PERMIT MUST BE FILED PRIOR TO THE START

OF SOIL DISTURBANCE. THE ONLINE APPLICATION PROCESS WILL REQUIRE ENTRY OF

DISTRICT UPON CERTIFICATION OF THE SOIL EROSION AND SEDIMENT CONTROL PLAN.

OBLIGATION TO FILE FOR A NJPDES CONSTRUCTION ACTIVITY STORMWATER 5G3

PRACTICES AND STORMWATER POLLUTION PREVENTION PLAN SELF-INSPECTION

AN SCD CERTIFICATION CODE. WHICH IS PROVIDED BY THE SOIL CONSERVATION

THE MERCER COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY

ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN,

SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE

A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE

ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR

WITHIN THE SEQUENCE OF CONSTRUCTION ON THE CERTIFIED SOIL EROSION AND

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT STANDARDS FOR

OTHER PERMIT FOR THIS PROJECT IS MORE RESTRICTIVE THAN (BUT NOT

CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN. THEN THE MORE

CONTRADICTORY TO) WHAT IS CONTAINED WITHIN THESE NOTES OR ON THE

IMMEDIATELY AFTER INITIAL SITE DISTURBANCE, WHETHER IDENTIFIED ON THE

LENGTH SHALL BE 50 FT. OR MORE, DEPENDING ON SITE CONDITIONS AND AS

20 FT. LONG PAVED TRANSITION SHALL BE PROVIDED BETWEEN THE EDGE OF

A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING

SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING,

SUBJECT TO CONSTRUCTION ACTIVITY WILL IMMEDIATELY RECEIVE TEMPORARY

STABILIZATION. IF THE SEASON PREVENTS ESTABLISHMENT OF A TEMPORARY

AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES, ROADWAY EMBANKMENTS,

IMMEDIATELY AFTER INITIAL DISTURBANCE OR ROUGH GRADING.

VERIFY THAT MIXTURES AND RATES MEET THE STANDARDS

VEGETATIVE COVER FOR SOIL STABILIZATION.

THE COMPLETION OF WORK IN A GIVEN AREA.

13. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE

ENVIRONMENTALLY SENSITIVE AREAS) WILL RECEIVE TEMPORARY STABILIZATION

ANY STEEP SLOPES (I.E. SLOPES GREATER THAN 3:1) RECEIVING PIPELINE OR

12. PERMANENT VEGETATION SHALL BE SEEDED OR SODDED ON ALL EXPOSED AREAS

WITHIN TEN (10) DAYS AFTER FINAL GRADING AND TOPSOILING. ALL AGRONOMIC

REQUIREMENTS CONTAINED WITHIN THE STANDARDS AND ON THE CERTIFIED PLAN

SHALL BE EMPLOYED. MULCH WITH BINDER, IN ACCORDANCE WITH THE STANDARDS

SEED, LIME AND FERTILIZER, AND PROVIDE THEM TO THE DISTRICT INSPECTOR TO

SHALL BE USED ON ALL SEEDED AREAS. SAVE ALL TAGS AND/OR BAGS USED FOR

STABILIZATION IS GOING TO BE ACCOMPLISHED. ANY SOIL THAT WILL NOT PROVIDE A

BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE

REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS,

THEN NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE

4. DURING THE COURSE OF CONSTRUCTION, SOIL COMPACTION MAY OCCUR WITHIN HAUL

IMMEDIATELY PRIOR TO TOPSOIL APPLICATION. THIS WILL HELP ENSURE A GOOD

WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION

5. PRIOR TO SEEDING, TOPSOIL SHALL BE WORKED TO PREPARE A PROPER SEEDBED

THIS SHALL INCLUDE RAKING OF THE TOPSOIL AND REMOVAL OF DEBRIS AND

6. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING

SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL

BE BURIED WITH LIMESTONE IN ACCORDANCE WITH THE STANDARD AND BE COVERED

WITH A MINIMUM OF 12" OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO TOPSOIL

APPLICATION AND SEEDBED PREPARATION. IF THE AREA IS TO RECEIVE TREE OR

7. MULCHING TO THE STANDARDS IS REQUIRED FOR OBTAINING A CONDITIONAL REPORT

FERTILIZER, LIME, ETC., ALONG WITH MINIMAL AMOUNTS OF MULCH TO PROMOTE

CONSISTENCY, GOOD SEED-TO-SOIL CONTACT, AND GIVE A VISUAL INDICATION OF

COVERAGE. UPON COMPLETION OF THE SEEDING OPERATION, HYDROMULCH SHOULD

BE APPLIED AT A MINIMUM RATE OF 1500 LBS. PER ACRE IN SECOND STEP. THE

DURING LIFE OF THE CONSTRUCTION PROJECT. ALL SEDIMENT WASHED, DROPPED,

TRACKED OR SPILLED ONTO PAVED SURFACES SHALL BE IMMEDIATELY REMOVED.

SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION, AND

FOR EMPLOYING ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AT THE

19. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN

20. THE DEVELOPER SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR

CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS

22. ALL DETENTION / RETENTION BASINS MUST BE FULLY CONSTRUCTED (INCLUSIVE OF

ALL STRUCTURAL COMPONENTS AND LINERS) AND PERMANENTLY STABILIZED PRIOR

STABILIZATION INCLUDES, BUT MAY NOT BE LIMITED TO: TOPSOIL, SEED, STRAW

MULCH AND BINDERS OR EROSION CONTROL BLANKETS ON ALL SEEDING, ALL

23. THE RIDING SURFACE OF ALL UTILITY TRENCHES WITHIN PAVED AREAS SHALL BE

24. ALL CONSTRUCTION DEWATERING (TRENCHES, EXCAVATIONS, ETC.) MUST BE DONE

25. ALL SWALES OR CHANNELS THAT WILL RECEIVE RUNOFF FROM PAVED SURFACES

26. NJSA 4:24-39 ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY OR

DISTRICT ISSUES A REPORT OF COMPLIANCE OR CONDITIONAL REPORT OF

BEEN INSTALLED. TEMPORARY SOIL RIDING SURFACES ARE PROHIBITED.

AGRONOMIC REQUIREMENTS AS SPECIFIED ON THE CERTIFIED SOIL EROSION AND

SEDIMENT CONTROL PLAN, INSTALLATION OF THE OUTFLOW CONTROL STRUCTURES

AND DISCHARGE STORM DRAINAGE PIPING, LOW FLOW CHANNELS, CONDUIT OUTLET

3/4" CLEAN STONE OR BASE PAVEMENT UNTIL SUCH TIME AS FINAL PAVEMENT HAS

THROUGH AN INLET OR OUTLET FILTER IN ACCORDANCE WITH THE STANDARD FOR

MUST BE PERMANENTLY STABILIZED PRIOR TO THE INSTALLATION OF PAVEMENT. IF

THE SEASON PROHIBITS THE ESTABLISHMENT OF PERMANENT STABILIZATION, THE

TEMPORARY CERTIFICATE OF OCCUPANCY BE ISSUED BY THE MUNICIPALITY BEFORE

HAVE BEEN SATISFIED. THEREFORE. ALL SITE WORK FOR SITE PLANS AND ALL WORK

THE PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN

AROUND INDIVIDUAL LOTS IN SUBDIVISIONS MUST BE COMPLETED BEFORE THE

ISSUANCE OF A CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF

COMPLIANCE, WHICH MUST BE FORWARDED TO THE MUNICIPALITY PRIOR TO THE

SWALES OR CHANNELS MAY BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE

DEWATERING OR AS DEPICTED ON THE CERTIFIED SOIL EROSION AND SEDIMENT

CONTROL PLAN. DISCHARGE LOCATIONS FOR THE DEWATERING OPERATION MUST

TO PAVING OR PRIOR TO THE ADDITION OF ANY IMPERVIOUS SURFACES. PERMANENT

REQUEST OF THE MERCER COUNTY SOIL CONSERVATION DISTRICT.

PROTECTION, EMERGENCY SPILLWAYS, AND LAP RING PROTECTION.

CONTAIN PERENNIAL VEGETATION OR SIMILAR STABLE SURFACE.

PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.

USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM SEEDING

DATES AS LISTED IN THE STANDARDS. THE USE OF HYDROMULCH ON SLOPED AREAS

PROHIBITS SEEDING. PERMANENT STABILIZATION MUST THEN BE COMPLETED DURING

THE OPTIMUM SEEDING SEASON IMMEDIATELY FOLLOWING THE CONDITIONAL ROC, OR

SHRUB PLANTINGS, OR IS LOCATED ON A SLOPE, THEN THE AREA SHALL BE

COVERED WITH A MINIMUM OF 24" OF SOIL HAVING A PH OF 5 OR MORE.

OF COMPLIANCE. CONDITIONAL ROC'S ARE ONLY ISSUED WHEN THE SEASON

8. HYDROSEEDING IS A TWO-STEP PROCESS. THE FIRST STEP INCLUDES SEED,

STONES, ALONG WITH OTHER REQUIREMENTS OF THE STANDARD FOR PERMANENT

BOND BETWEEN THE TOPSOIL AND SUBSOIL. THIS PRACTICE IS PERMISSIBLE ONLY

ROUTES, STAGING AREAS AND OTHER PROJECT AREAS. IN ACCORDANCE WITH THE

STANDARD FOR TOPSOILING, COMPACTED SURFACES SHOULD BE SCARIFIED 6" TO 12"

SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER. SHALL

SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE

UTILITY INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE

VEGETATIVE COVER, OR IF THE AREA IS NOT TOPSOILED, THEN THE DISTURBED

AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS,

DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE

PROVIDED THAT ALL OTHER REQUIREMENTS RELATED TO DETENTION BASINS, SWALES

O. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 14 DAYS AND NOT

AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF

EXCESS OF 3H:1V SHALL BE PROVIDED WITH EROSION CONTROL BLANKETS. CRITICAL

TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS. SLOPED AREAS IN

SOIL EROSION AND SEDIMENT CONTROL IN NJ. IF LANGUAGE CONTAINED WITHIN ANY

THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION

CERTIFIED PLAN OR NOT. THE WIDTH SHALL SPAN THE FULL WIDTH OF EGRESS, AND

REQUIRED BY THE STANDARD. THIS SHALL INCLUDE INDIVIDUAL LOT ACCESS POINTS

WITHIN RESIDENTIAL SUBDIVISIONS. IF THE EGRESS IS TO A COUNTY ROAD, THEN A

OF A 1½" TO 2½" CLEAN STONE TRACKING PAD AT ALL CONSTRUCTION DRIVEWAYS

SEDIMENT CONTROL PLAN, AND MAINTAINED UNTIL PERMANENT PROTECTION IS

TO ANY MAJOR SOIL DISTURBANCES, OR IN THEIR PROPER SEQUENCE AS OUTLINED

DISTRICT FOR RECERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT

INCLUDING AN INCREASE IN THE LIMIT OF DISTURBANCE, WILL REQUIRE THE

PHONE: 609-586-9603 FAX: 609-586-1117 EMAIL: MERCERSOIL@AOL.COM

MCSCD, 508 HUGHES DRIVE, HAMILTON SQUARE, NJ 08690

STATE SOIL EROSION & SEDIMENT CONTROL STANDARDS.

RESTRICTIVE PERMIT REQUIREMENTS SHALL BE FOLLOWED.

AND THE SEQUENCE OF CONSTRUCTION HAVE BEEN MET.

PERMIT (NJG0088323) VIA THE NJDEP ONLINE PERMITTING SYSTEM

OR EMAILED TO:

CHANGES IN OWNERSHIP.

ESTABLISHED.

MAINTAINED ON SITE AT ALL TIMES.

PAVEMENT AND THE STONE ACCESS PAD.

INSTALLATION PROCEEDS.

TO BE EMPLOYED.

SYSTEMS, ETC.).

IS DISCOURAGED.

STANDARDS.

OCCUPANCY, RESPECTIVELY.

PRIOR TO STARTING LAND DISTURBANCE ACTIVITY. NOTICE MAY BE MAILED, FAXED

PERMANENT STABILIZATION WITH SOD PERMANENT SODDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY." THE FOLLOWING SOD SCHEDULE SHOULD BE USED FOR PERMANENT STABILIZATION:

SITE PREPARATION

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR LIMING, FERTILIZING, INCORPORATION OF ORGANIC MATTER, AND
- OTHER SOIL PREPARATION PROCEDURES. ALL GRADING SHALL BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING. B. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 6 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER. AS NEEDED. IN ACCORDANCE WITH STANDARD FOR
- C. INSTALL EROSION CONTROL MEASURES AS INDICATED ON THE "SOIL EROSION AND SEDIMENT CONTROL PLAN," DRAWING CE-101 AND AS DETAILED ON DRAWING CE-502.

. SOIL PREPARATION

A. FERTILIZER SHALL BE APPLIED AT A RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY $lac{1}{2}$ THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER 1/2 RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SODDING. APPLY LIMESTONE AT THE RATE OF 2 TONS/ACRE UNLESS SOIL TESTING INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES. THE TABLE BELOW IS A GENERAL GUIDFLINE FOR LIMESTONE APPLICATION RATES.

Limestone Application Rate by Soil Texture		
Soil Texture	Tons/Acre	LBS./1000 SQ. FT.
Clay, clay loam, and high organic soil	3	135
Sandy Ioam, Ioam, silt Ioam	2	90
Loamy sand, sand	1	45

- B. WORK LIME, AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED.
- . REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO TOPSOIL CONTACT AND REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL. D. INSPECT SITE JUST BEFORE SODDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED IN ACCORDANCE WITH

SOD PLACEMENT

THE ABOVE.

- A. SOD STRIPS SHOULD BE LAID ON THE CONTOUR, NEVER UP AND DOWN THE SLOPE, STARTING AT THE BOTTOM OF THE SLOPE AND WORKING UP. ON STEEP SLOPES, THE USE OF LADDERS WILL FACILITATE THE WORK AND PREVENT DAMAGE TO THE SOD. DURING PERIODS OF HIGH TEMPERATURE, LIGHTLY IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
- B. PLACE SOD STRIPS WITH SNUG, EVEN JOINTS (SEAMS) THAT ARE STAGGERED. OPEN SPACES INVITE EROSION. C. LIGHTLY ROLL OR TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OF ROOT MAT AND SOIL SURFACE. DO NOT OVERLAP THE SOD.
- ALL JOINTS SHOULD BE BUTTED TIGHTLY TO PREVENT VOIDS WHICH WOULD CAUSE DRYING OF THE ROOTS AND INVASION OF WEEDS. D. ON SLOPES GREATER THAN 3 TO 1, SECURE SOD TO SURFACE SOIL WITH WOOD PEGS, WIRE STAPLES BIODEGRADABLE PLASTIC SPIKES, OR SPLIT SHINGLES (* TO
- 10 INCHES LONG BY 3/4 INCH WIDE). E. SURFACE WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE, BUT A CAPPING STRIP OF HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SLOPE AND EDGES WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SAME TECHNIQUE CAN BE USED TO ANCHOR SOD IN WATER-CARRYING CHANNELS AND OTHER CRITICAL AREAS. WIRE STAPLES MUST BE USED TO ANCHOR NETTING
- . IMMEDIATELY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL WATER PENETRATES THE SOIL LAYER BENEATH SOD TO A DEPTH OF 1 INCH. MAINTAIN OPTIMUM WATER FOR AT LEAST TWO WEEKS.

TOPDRESSING

OF HIGH ACID PRODUCING DEPOSITS.

SOILS ARE ENCOUNTERED.

AROUND OR OFF THE SITE.

METHODS AND MATERIALS:

CONTENT.

A. SINCE SOIL ORGANIC MATTER AND SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) ARE PRESCRIBED IN SECTIONS 1 AND 2, A FOLLOW-UP TOPDRESSING IS NOT MANDATORY. EXCEPT WHERE GROSS NITROGEN DEFICIENCY EXISTS IN THE SOIL TO THE EXTENT THAT TURF FAILURE MAY DEVELOP, TOPDRESSING SHALL THEN BE APPLIED. TOPDRESS WITH 10-0-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 7 POUNDS PER 1,000 SQUARE FEET EVERY 3 TO 5 WEEKS UNTIL THE GROSS DEFICIENCY IN THE TURF IS AMELIORATED.

PERMANENT SOD

MANAGEMENT OF HIGH ACID PRODUCING

HIGH ACID PRODUCING SOILS MAY BE PRESENT IN UNDISTURBED SOILS AT VARYING

DEPTHS INCLUDING NEAR THE SOIL SURFACE TO EXCAVATIONS OR DEEP DISTURBANCES.

ITS PRESENCE ON A SITE MAY BE SIGNIFICANT OR LIMITED IN THE SOIL PROFILE. HIGH

ACID PRODUCING SOILS ARE COMMONLY BLACK, DARK BROWN, GRAY OR GREENISH WITH

REDDISH, YELLOWISH OR LIGHT TO MEDIUM BROWN SOIL MATERIALS ARE USUALLY FREE

1. LIMIT THE EXCAVATION AREA AND EXPOSURE TIME WHEN HIGH ACID PRODUCING

3. STOCKPILES OF HIGH ACID PRODUCING SOIL SHOULD BE LOCATED ON LEVEL LAND

4. TEMPORARILY STOCKPILED HIGH ACID PRODUCING SOIL MATERIAL TO BE EXPOSED

SHALL BE COVERED WITH A MINIMUM OF 3 TO 6 INCHES OF WOOD CHIPS TO

TOE OF THE SLOPE TO CONTAIN MOVEMENT OF THE STOCKPILED MATERIAL.

TOPSOIL SHALL NOT BE APPLIED TO THE STOCKPILES TO PREVENT TOPSOIL

5. HIGH ACID PRODUCING SOILS WITH A pH OF 4 OR LESS, OR CONTAINING IRON

SETTLED SOIL WITH A pH OF 5 OR MORE EXCEPT AS FOLLOWS:

TO PREVENT POTENTIAL LATERAL LEACHING DAMAGES.

TREATED AS INDICATED ABOVE TO CORRECT THE PROBLEM.

SULFIDE. (INCLUDING BORROW FROM CUTS) SHALL BE ULTIMATELY PLACED OR

BURIED WITH LIMESTONE APPLIED AT THE RATE OF 6 TONS PER ACRE (OR 275 LBS

/ 1.000 SF OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12 INCHES OF

B. DISPOSAL AREAS SHALL NOT BE LOCATED WITHIN 24 INCHES OF ANY SURFACE

CLEANED AT THE END OF EACH DAY TO PREVENT SPREADING OF HIGH ACID SOIL

STRATEGICALLY PLACED LIMESTONE CHECK DAM. SILT FENCE, WOOD CHIPS) SHOULD

SEEDING OF THE SITE, MONITORING SHOULD CONTINUE FOR APPROXIMATELY 6 TO 12

MONTHS TO ASSURE THERE IS ADEQUATE STABILIZATION AND THAT NO HIGH ACID

SOIL PROBLEMS EMERGE. IF PROBLEMS STILL EXIST THE AFFECTED AREA MUST BE

BURIED SHOULD BE PERFORMED FOR AT LEAST 2 YEARS OR LONGER IF PROBLEMS

BE INSTALLED TO LIMIT THE MOVEMENT OF HIGH ACID PRODUCING SOILS FROM.

8. FOLLOWING BURIAL OR REMOVAL OF HIGH ACID PRODUCING SOIL, TOPSOILING AND

9. MONITORING OF AREAS WHERE HIGH ACID PRODUCING SOIL HAS BEEN PLACED OR

OCCUR, TO ASSURE THERE IS NO MIGRATION OF POTENTIAL ACID LEACHATE.

OF A SLOPE OR BANK, SUCH AS BERMS, STREAM BANKS, DITCHES AND OTHERS

A. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED

WITH A MINIMUM OF 24 INCHES OF SOIL WITH A pH OF 5 OR MORE.

6. EQUIPMENT USED FOR MOVEMENT OF HIGH ACID PRODUCING SOILS SHOULD BE

MATERIALS TO OTHER PARTS OF THE SITE, INTO STREAMS OR STORMWATER

CONVEYANCES AND TO PROTECT MACHINERY FROM ACCELERATED RUSTING.

7. NON VEGETATIVE EROSION CONTROL PRACTICES (STONE TRACKING PADS.

MINIMIZE EROSION OF THE STOCKPILE. SILT FENCE SHALL BE INSTALLED AT THE

MORE THAN 30 DAYS SHOULD BE COVERED WITH PROPERLY ANCHORED. HEAVY

GRADE SHEETS OF POLYETHYLENE WHERE POSSIBLE. IF NOT POSSIBLE. STOCKPILES

TO MINIMIZE ITS MOVEMENT, ESPECIALLY WHEN THIS MATERIAL HAS A HIGH CLAY

2. TOPSOIL STRIPPED FROM THE SITE SHALL BE STORED SEPARATELY FROM

TEMPORARY STOCKPILED HIGH ACID PRODUCING SOILS.

CONTAMINATION WITH HIGH ACID PRODUCING SOIL.

SILVERY PYRITE OR MARCASITE NUGGETS OR FLAKED. ALTERNATIVELY, SANDY SOILS OR

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

DISTURBED AREAS SHALL BE MAINTAINED IN A ROUGH GRADED CONDITION AND TEMPORARILY SEEDED AND HAY MULCHED UNTIL PROPER WEATHER EXISTS FOR THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER. THE FOLLOWING SCHEDULE SHALL BE USED FOR TEMPORARY STABILIZATION:

1. SITE PREPARATION

- A. INSTALL EROSION CONTROL MEASURES AS INDICATED ON THE "SOIL EROSION AND SEDIMENT CONTROL PLAN," DRAWING CE-101 AND AS DETAILED ON DRAWING CE-502.
- B. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES.

2. SEEDBED PREPARATION

- A. APPLY GROUND LIMESTONE AND FERTILIZER. LIMESTONE SHALL BE APPLIED AT A RATE OF 90 LBS/1,000 SF (2) TONS/ACRE - FOR SANDY LOAM, LOAM, AND SILT LOAM) AS PER TABLE 7-1 OF THE STATE SOIL EROSION STANDARDS. FERTILIZER SHALL BE APPLIED AT A RATE OF 11 LBS/1,000 SF (500 LBS/ACRE) OF 10-20-10 OR
- EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN. B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4" WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A
- INSPECT SEEDBED JUST PRIOR TO SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN ACCORDANCE WITH THE ABOVE.

REASONABLE UNIFORM SEEDBED IS PREPARED.

- A. APPLY PERENNIAL RYEGRASS AT A RATE OF 1 LB/1,000 SF (100 LBS/ACRE) TO A DEPTH OF 2" AS PER TABLE 7-2 AND FIGURE 7-1 OF THE STATE SOIL EROSION STANDARDS. PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1. PRIOR TO MARCH 1, STABILIZE WITH MULCH ONLY (SEE SPECIFICATIONS, THIS
- B. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4" TO 1/2". BY RAKING OR DRAGGING.
- HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. AFTER SEEDING, FIRM THE SOIL WITH A CORRUGATED ROLLER TO ASSURE GOOD SEED-TO-SOIL CONTACT RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE.

4. MULCHING

- A. MULCHING IS REQUIRED ON ALL SEEDING TO INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND PROMOTE FASTER AND EARLIER ESTABLISHMENT. B. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY SHALL BE APPLIED AT A RATE OF 70 TO 90
- LBS/1,000 SF (1-1/2 TO 2 TONS PER ACRE). MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED DUE TO THE PRESENCE OF WEED SEEDS.
- SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% OF THE SOIL SURFACE WILL BE COVERED
- ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. DRIVE 8" TO 10" WOODEN PEGS TO WITHIN 2" TO 3" OF THE SOIL SURFACE EVERY 4' IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRIS-CROSS AND SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND

STANDARD FOR TOPSOILING

TOPSOIL SHALL BE USED WHERE SOILS ARE TO BE DISTURBED AND WILL BE REVEGETATED. THE FOLLOWING SCHEDULE SHALL BE USED FOR MAINTENANCE OF VEGETATION:

- A. TOPSOIL SHOULD BE FRIABLE, LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE OR ADVERSE CHEMICAL OR PHYSICAL CONDITION THAT MAY BE HARMFUL TO PLANT GROWTH. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIOHMS PER CENTIMETER). MORE THAN 0.5 MILLIOHMS MAY DESICCATE SEEDLINGS AND ADVERSELY IMPACT GROWTH.
- B. TOPSOIL HAULED IN FROM OFFSITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC CONTENT MAY BE RAISED BY ADDITIVES.

STRIPPING AND STOCKPILING

QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING. STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING TO BRING THE SOIL PH OR APPROXIMATELY Y6.5. LIMESTONE SHALL BE APPLIED AT A RATE OF 90 LBS/1,000 SF (2 TONS/ACRE - FOR SANDY LOAM, LOAM, AND SILT LOAM) AS PER TABLE 4-1

A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND/OR

- OF THE STATE SOIL EROSION STANDARDS. D. A 4" TO 6" STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE
- PARTICULAR SOIL STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL
- DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE. STOCKPILES SHOULD BE VEGETATED AS DESCRIBED IN THE DETAILS ON THIS SHEET. WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES.

SITE PREPARATION

APPLYING TOPSOIL

- A. GRADE AT THE ONSET OF THE OPTIMAL SEEDING PERIOD TO AS TO MINIMIZE THE DURATION AND AREA OF EXPOSURE OF DISTURBED SOIL TO EROSION. IMMEDIATELY PROCEED TO ESTABLISH VEGETATIVE COVER IN ACCORDANCE WITH THE SPECIFIED SEED
- MIXTURE (SEE DETAIL THIS SHEET). B. LIMESTONÈ, IF REQUIRED, SHOULD BE APPLIED TO BRING SOIL TO A PH OF
- APPROXIMATELY 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4".
- . IMMEDIATELY PRIOR TO TOPSOILING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION TO ENSURE A GOOD BOND BETWEEN THE TOPSOIL AND SUBSOIL. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO
- DANGER TO UNDERGROUND UTILITIES. INSTALL EROSION CONTROL MEASURES AS INDICATED ON THE "SOIL EROSION AND SEDIMENT CONTROL PLAN," DRAWING CE-101 AND AS DETAILED ON DRAWING CE-502.
- A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE.
- B. A UNIFORM APPLICATION DEPTH OF 5" (UNSETTLED) IS RECOMMENDED. SOILS WITH A PH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12" OF SOIL HAVING A PH OF 5.0 OR MORE.

MAINTENANCE OF VEGETATION

- MAINTENANCE SHALL OCCUR ON A REGULAR BASIS, CONSISTENT WITH FAVORABLE PLANT GROWTH. SOIL, AND CLIMATIC CONDITIONS. THIS INVOLVES REGULAR SEASONAL WORK FOR MOWING, FERTILIZING, LIMING, WATERING, PRUNING, FIRE CONTROL, WEED AND PEST CONTROL, RESEEDING, AND TIMELY REPAIRS. THE FOLLOWING SCHEDULE SHALL BE USED FOR MAINTENANCE OF
- THE SITE'S VEGETATED AREAS WILL REQUIRE MEDIUM TO LOW LEVELS OF MAINTENANCE. MOWING IS EXPECTED TO BE INFREQUENT TO PERMIT NATURAL SUCCESSION.
- 2. FERTILIZER AND LIME SHALL BE APPLIED AS NEEDED TO MAINTAIN A DENSE STANDARD OF DESIRABLE SPECIES. FREQUENTLY MOWED AREAS AND THOSE ON SANDY SOILS WILL REQUIRE MORE FERTILIZATION.
- 3. LIME REQUIREMENT SHALL BE DETERMINED BY SOIL TESTING EVERY 2 TO 3 YEARS. FERTILIZATION INCREASES THE NEED FOR LIMING.
- 4. WEED INVASION MAY RESULT FROM ABUSIVE MOWING AND FROM INADEQUATE FERTILIZING AND LIMING. BRUSH INVASION IS A COMMON CONSEQUENCE OF LACK OF MOWING. THE AMOUNT OF WEEDS OR BRUSH THAT CAN BE TOLERATED IN ANY VEGETATED AREA DEPENDS UPON THE INTENDED USE OF THE LAND. DRAINAGE WAYS ARE SUBJECT TO RAPID INFESTATION BY WEED AND WOODY PLANTS. THESE SHOULD BE CONTROLLED, SINCE THEY OFTEN REDUCE DRAINAGE WAY EFFICIENCY. CONTROL OF WEEDS OR BRUSH IS ACCOMPLISHED BY USING HERBICIDES OR MECHANICAL METHODS.
- 5. VEGETATION SHALL BE KEPT PEST AND DISEASE FREE.
- 6. ACCUMULATED DRY VEGETATION SHALL BE REMOVED TO REDUCE THE FIRE HAZARD. 7. PRUNE TREES AND SHRUBS TO REMOVE DEAD OR DAMAGED BRANCHES. REMOVE
- UNDESIRABLE OR INVASIVE PLANTS TO MAINTAIN INTEGRITY OF THE LANDSCAPE AND ENHANCE QUALITY OF PERMANENT VEGETATIVE COVER.

MAINTENANCE OF VEGETATION

MERCER COUNTY SOIL CONSERVATION DISTRICT **508 HUGHES DRIVE** HAMILTON SQUARE, N.J. 08690 PHONE: (609) 586-9603 FAX: (609) 586-1117 MERCERSOIL@AOL.COM

CONTRACTOR MUST NOTIFY DISTRICT 48-HOURS PRIOR TO START OF CONSTRUCTION.

SOIL EROSION CONTACT

STANDARD FOR TOPSOILING

STABILIZATION WITH MULCH ONLY

NON-GROWING STABILIZATION MEASURES SHALL BE USED WHERE THE SEASON & OTHER CONDITIONS MAY NOT BE SUITABLE FOR GROWING AN EROSION RESISTANT COVER OR WHERE STABILIZATION IS NEEDED FOR A SHORT PERIOD UNTIL MORE SUITABLE PROTECTION CAN BE APPLIED. THE FOLLOWING SCHEDULE SHALL BE USED FOR STABILIZATION MULCH:

SITE PREPARATION

A. INSTALL EROSION CONTROL MEASURES AS INDICATED ON THE "SOIL EROSION AND SEDIMENT CONTROL PLAN." DRAWING CE-101 AND AS DETAILED ON DRAWING CE-502.

2. PROTECTIVE MATERIALS

A. APPLY UNROTTED SMALL-GRAIN STRAW, OR SALT HAY UNIFORMLY AT A RATE OF 90 TO 115 LBS/1,000 SF (2.0 TO 2.5 TONS/ACRE) AND ANCHOR WITH A MULCH ANCHORING TOOL.

STABILIZATION WITH MULCH

CONSTRUCTION OPERATIONS

<u>OPERATION</u>

1. NOTIFY THE MERCER COUNTY SOIL CONSERVATION

DISTRICT AT LEAST 48 HOURS PRIOR TO ANY

PROJECT PRE-CONSTRUCTION MEETING OR SITE

2. PLACE AND MAINTAIN THE SEDIMENT BARRIERS AS

3. PERFORM SITE DEMOLITION ACTIVITIES. CLEAR AND

4. ROUGH GRADE THE SITE. INSTALL STORM DRAINAGE

UTILITY IMPROVEMENTS. APPLY TEMPORARY OR

5. AFTER STORM DRAINAGE SYSTEM IS CONSTRUCTED,

PROTECTION IS REQUIRED BEYOND THE SITE LIMITS.

7. COMPLETE FINAL SITE GRADING WITH CURBING AND

MAINTAINED UNTIL ALL IMPROVEMENTS TO THE SITE

AND REMOVE ALL TEMPORARY SEDIMENT CONTROL

9. LANDSCAPE ALL APPROPRIATE AREAS AS INDICATED

10. NOTIFY THE MERCER COUNTY SOIL CONSERVATION

DISTRICT AT THE COMPLETION OF CONSTRUCTION.

CONTRACTOR SHALL CONTINUE TO MONITOR

ADJACENT STREETS TO DETERMINE IF INLET

6. BEGIN AND CONTINUE SITEWORK AND BUILDING

PAVING. SPREAD 5 INCHES OF TOPSOIL.

8. ALL SEDIMENT CONTROL MEASURES SHALL BE

FROM DOWNSTREAM TO UPSTREAM. INSTALL ALL

PERMANENT STABILIZATION TO ALL DISTURBED AREAS

THAT ARE NO LONGER UNDER ACTIVE CONSTRUCTION.

INSTALL INLET FILTER PROTECTION OVER NEW STORM

CONSTRUCTION ENTRANCE AT ALL TIMES.

GRUB AREAS AS REQUIRED.

SYSTEM.

CONSTRUCTION.

ARE COMPLETED.

STRUCTURES.

SHOWN ON THE PLAN. INSTALL INLET PROTECTION

AS SHOWN. ALL TRAFFIC MUST USE THE SPECIFIED

- 3. MULCH ANCHORING
- A. ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. DRIVE 8" TO 10" WOODEN PEGS TO WITHIN 2" TO 3" OF THE SOIL SURFACE EVERY 4' IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRIS-CROSS AND SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.

ANTICIPATED DURATION

4 WEEKS

4 MONTHS

4 MONTHS

1.5 YEARS

2 MONTHS

2 WEEK

126 WEEKS

(29 MONTHS)

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION (SHOWN FOR REFERENCE ONLY — ALL LAWN AREAS SHALL BE STABILIZED WITH SOD)

PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY." THE FOLLOWING SEEDING SCHEDULE SHOULD BE USED FOR PERMANENT STABILIZATION:

1. SITE PREPARATION

- A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. B. IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION. THE SUBSOIL SHALL BE
- EVALUATED FOR COMPACTION IN ACCORDANCE WITH STANDARD FOR LAND GRADING. C. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH STANDARD FOR TOPSOILING.
- D. INSTALL EROSION CONTROL MEASURES AS INDICATED ON THE "SOIL EROSION AND SEDIMENT CONTROL PLAN," DRAWING CE-101 AND AS DETAILED ON DRAWING CE-502.

SEEDBED PREPARATION

- UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 LBS PER ACRE OR 11 LBS/1.000 SF OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF THE RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING.
- WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4" WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
- HIGH ACID PRODUCING SOIL SOILS HAVING A pH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH MINIMUM OF 12 INCHES OF SOIL HAVING A pH OF 5 OR MORE BEFORE INITIATING SEEDBED PREPARATION. SEE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOIL.

SEEDING

- A. SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS OF THE PLANTING DATE. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 MONTHS
- OLD UNLESS RETESTED B. APPLY 70% TURF TYPE TALL FESCUE, 20% PERENNIAL RYEGRASS, AND 10% KENTUCKY BLUE GRASS. SEED AT A RATE OF 2,000 LBS/ACRE. OPTIMAL PLANTING TIME OCCURS BETWEEN AUGUST 15 AND OCTOBER 15. ACCEPTABLE PLANTING TIME IS BETWEEN MARCH 1 AND
- APRIL 30 OR BETWEEN MAY 1 THROUGH AUGUST 14. SEEDING RATE SPECIFIED IS REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF VEGETATION. UP TO 50% REDUCTION IN RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO A REPORT OF COMPLIANCE INSPECTION. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVERAGE WITH A SPECIFIED SEED MIXTURE FOR THE SEEDED AREA AND MOWED ONCE.
- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 1/4" TO 1/2", BY RAKING OR DRAGGING.
- E. HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. F. AFTER SEEDING, FIRM THE SOIL WITH A CORRUGATED ROLLER TO ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE.
- G. WET SEED MIX (IF REQUIRED): APPLY DEERTONGUE AT A RATE OF 0.45 LBS/1,000 SF (20 LBS/ACRE). REDTOP AT A RATE OF 0.05 LBS/1.000 SF (2 LBS/ACRE). WILD RYE (ELYMUS) AT A RATE OF 0.35 LBS/1,000 SF (15 LBS/ACRE), AND SWITCHGRASS AT A RATE OF 0.60 LBS/1.000 SF (25 LBS/ACRE) TO A DEPTH OF 2" AS PER TABLES 4-2 AND 4-3. AND FIGURE 4-1 OF THE STATE SOIL EROSION STANDARDS. PLANT BETWEEN MARCH 1 AND APRIL 30.

4. MULCHING

- A. MULCHING IS REQUIRED ON ALL SEEDING TO INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND PROMOTE FASTER AND EARLIER ESTABLISHMENT.
- B. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY SHALL BE APPLIED AT A RATE OF 70 TO 90 LBS/1,000 SF (1-1/2 TO 2 TONS PER ACRE). MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED DUE TO THE PRESENCE OF WEED SEEDS.
- SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% OF THE SOIL SURFACE WILL BE COVERED. ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY
- WIND OR WATER. DRIVE 8" TO 10" WOODEN PEGS TO WITHIN 2" TO 3" OF THE SOIL SURFACE EVERY 4' IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRIS-CROSS AND SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR

5. IRRIGATION

- A. IF SOIL IS MOISTURE DEFICIENT. AND MULCH IS NOT USED. SUPPLY NEW SEEDLINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4" TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.
- B. COORDINATE IRRIGATION OF SEEDED AREAS WITH PROPERTY OWNER AND MAINTENANCE PERSONNEL.

6. TOPDRESSING

A. SLOW RELEASE NITROGEN FERTILIZER (WATER INSOLUBLE) IS PRESCRIBED IN 2.A. ABOVE, NO EVERY 3 TO 5 WEEKS UNTIL THE GROSS NITROGEN DEFICIENCY IN THE TURF IS AMELIORATED.

FOLLOW-UP OF TOPDRESSING IS MANDATORY. AN EXCÉPTION MAY BE MADE WHERE GROSS NITROGEN DEFICIENCY EXISTS TO THE EXTENT THAT TURF FAILURE MAY DEVELOP. IN THAT INSTANCE, TOPDRESS WITH 10-10-10 OR EQUIVALENT AT 7 LBS/1,000 SF (300 LBS/ACRE)

WEST WINDSOR TOWNSHIP MERCER COUNTY

SOIL EROSION & **SEDIMENT** CONTROL DETAILS

Project No. Drawing No. 130172801 **CE501**

12/03/2021 Drawn By

2/15/2022

12/3/2021

Date

SIGNATURE

Revised per Township Comments

Completeness Revisions 1

Description

CHRISTIAN ROCHE 11/12/2021

PROFESSIONAL ENGINEER NJ Lic. No.

Langan Engineering and

Environmental Services, Inc

989 Lenox Drive, Suite 124

Lawrenceville, NJ 08648

T: 609.282.8000 F: 609.282.8001 www.langan.com

NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

BRIDGE POINT 8

INDUSTRIAL PARK

REVISIONS

SOIL EROSION AND SEDIMENT CONTROL **PLAN NOTES**

MANAGEMENT OF HIGH ACID PRODUCING SOIL

MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-SITE AND OFF-SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY. ONE OR MORE OF THE FOLLOWING METHODS MAY BE USED FOR DUST CONTROL: 1. MULCH

STANDARD FOR DUST CONTROL

TEMPORARY SEED MIX

DUST CONTROL MEASURES SHALL BE USED TO PREVENT BLOWING AND

4. TILLAGE

- A. SEE SPECIFICATIONS, THIS SHEET 2. VEGETATIVE COVER
- A. SEE SPECIFICATIONS, THIS SHEET.

3. SPRAY-ON ADHESIVES

- A. ANIONIC ASPHALT EMULSION, DILUTED WITH WATER AT 7:1, COARSE SPRAY, APPLY AT A RATE OF 1200 GALLONS/ACRE. B. LATEX EMULSION, DILUTED WITH WATER AT 12.5:1, FINE SPRAY,
- APPLY AT A RATE OF 235 GALLONS/ACRE. C. POLYACRYLAMIDE (PAM) SPRAY ON OR DRY SPREAD - APPLY PER MANUFACTURER'S INSTRUCTIONS. D. ACIDULATED SOY BEAN SOAP STICK, DO NOT DILUTE, COARSE

SPRAY, APPLY AT A RATE OF 1200 GALLONS/ACRE.

- A. ROUGHEN THE SURFACE TO BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING BEGINS. BEGIN PLOWING ON
- THE WINDWARD SIDE OF THE SITE. USE CHISEL-TYPE PLOWS SPACES APPROXIMATELY 12" APART, OR SPRING-TOOTHED HARROWS. 5. SPRINKLING
- A. SPRINKLE ALL EXPOSED AREAS UNTIL THE SURFACE IS WET.
- 6. BARRIERS
- WALLS, BALES OF HAY AND SIMILAR MATERIALS USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.
- 7. CALCIUM CHLORIDE A. LOOSE, DRY GRANULES OR FLAKES SHALL BE FED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP THE SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IS USED ON STEEP SLOPES, OTHER PRACTICES

A. SOLID BOARD FENCE, SNOW FENCES, BURLAP FENCES, CRATE

STREAMS OR ACCUMULATION AROUND PLANTS. 8. STONE

A. COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

STANDARD FOR DUST CONTROL

MUST ALSO BE IMPLEMENTED TO PREVENT WASHING INTO

- SCHEDULE OF CONSTRUCTION OPERATIONS WAS DEVELOPED BY THE ENGINEER AND IS APPROXIMATE. THE CONTRACTOR MAY ALTER THIS SCHEDULE SIGNIFICANTLY. THE SCHEDULE IS FOR CONCEPTUAL PURPOSES ONLY.
- - SEQUENCE OF **CONSTRUCTION OPERATIONS**

PERMANENT SEED MIX

Checked By

Date: 2/11/2022 Time: 16:06 User: mmorgan Style Table: Langan.stb Layout: CE501 Document Code: 130172801-0501-CE501-0101

NEW JERSEY

