

\$0][EROSION AND SEDIMENT CONTROL \mathbb{Z} JERSEY

TABLE 4-3 RES, PLANTING

OF HIGH ARID PRODICING SOILS PG 1.1.1	DE HIGH
> 5H OF 1 OB 1 FSS BEEFB	
INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN ACCORDANCE WITH THE ABOVE.	C. INSPECT MUST B
SEEDBED IS PREPARED.	SEEDBEI
OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNFORM	OPERAT
WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH	B. WORK L
SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES.	SOIL AC
THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE	THE EQ
WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOLL TEST INDICATES OTHERWISE AND APPLY DESTROYED AT THE BATE OF 3 TONS (ACRE INLESS SOLL TESTING INDICATES OTHERWISE CALCULAR APPLY DESTROYED AT THE BATE OF 3 TONS (ACRE INLESS SOLL TESTING INDICATES OTHERWISE CALCULAR APPLY DESTROYED AT THE BATE OF 3 TONS (ACRE INLESS SOLL TESTING INDICATES OTHERWISE CALCULAR APPLY DESTROYED AT THE BATE OF 3 TONS (ACRE INLESS SOLL TESTING INDICATES OTHERWISE CALCULAR APPLY DESTROYED AT THE BATE OF 3 TONS (ACRE INLESS SOLL TESTING INDICATES OTHERWISE CALCULAR APPLY DESTROYED AND THE BATE OF 3 TONS (ACRE INLESS SOLL TESTING INDICATES OTHERWISE CALCULAR APPLY DESTROYED AND THE BATE OF THE BATE O	WITH 50
LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POLINDS PER ACRE OR 11 POLINDS PER 1 000 SOLIARE FEET OF 10-20-10 OR FOLINDALENT	LOCAL I
APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE	A. APPLY OFFEREI
SEEDBED PREPARATION	2. <u>SEEDBED</u> PI
UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).	UNDERG
IMMEDIATELY PRIOR TO SEEDING , THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS	C. IMMEDIA
SEE STANDARDS 11 THROUGH 42.	SEE SIV
INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.	B. INSTALL
	DONE I
GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE	
TE PREPA	TE PREPA
METHODS AND MATERIALS	
WHERE APPLICABLE OSED SOILS THAT HAVE THE POTENTIAL FOR CAUSING OFF—SITE ENVIRONMENTAL DAMAGE.	ON EXPOSED SO
STREAMS OR OTHER STORMWAILE CONVEYANCES.	VIREAMV OR CIT
OF STORMWATER RUNOFF, INCREASES INFILTRATION AND RETAINS SOIL AND NUTRIENTS ON SITE, PROTECTING	OF STORMWATER
WATER QUALITY ENHANCEMENT PROVIDES TEMPORARY PROTECTION AGAINST THE IMPACTS OF WIND AND RAIN, SLOWS THE OVER LAND MOVEMENT	PROVIDES TEMPOR
STABILIZATION IS ACCOMPLISHED.	STABILIZATION IS
PURPOSE PURPOSE PURPOSE PURPOSE PURPOSE	TO TEMPORARII V
WITHIN 60 DAYS.	SEEDING WITHIN 60 DAYS.
ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER ON SOILS EXPOSED FOR PERIODS OF TWO TO 6 MONTHS WHICH ARE NOT BEING GRADED, NOT UNDER ACTIVE CONSTRUCTION OR NOT SCHEDULED FOR PERMANENT	ESTABLISHMENT O WHICH ARE NOT E
<u>DEFINITION</u>	
IEMTORAKI VEGELALIVE COVER FOR WOLF WIABILIDA	

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LBS/ 1000 SQ. FT

3/1- 5/1- 8/15-1 4/30 8/14 11/15

2/1-4/30

MAINTENANCE LEVEL /4

TO PROTECT DESIRABLE TREES THAT HAVE VALUE AESTHETICS, SONG BIRDS, OTHER WILDLIFE, DUST O

HAVE VALUE FOR EROSION AND SEDIMENT CONTROL, SHADE, DUST CONTROL, NOISE ABATMENT, AND OXYGEN PRODUCT WHERE APPLICABLE

NING VALUABLE TREES.

METHODS AND MATERIALS

STANDARD FOR TREE PROTECTION DURING CONSTRUCTION

ALL SOIL EROSION AND SEDIMENT CONTROL NOTES

ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES. OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEDIMG. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.

PERMANENT VEGETATION SHALL BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH WILL BE USED FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.

A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROAD, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING.

THE RECONNAISSANCE BEFORE LAND CLEARING BEGINS CAN RESULT IN AN AESTHETICALLY PLEASING DEVELOPMENT WITH NATURAL VECETATION RATHER THAN THE PRESENCE OF DEAD OR DYING TREES. INVENTORY THE SITE AND CLEARLY WARK THE RREES TO BE SAVED. CONSIDER RECOCATING STRRETS, HOUSES, OR OTHER STRUCTURES IF NECESSARY AND FEASIBLE. ONCE CLEARING BEGINS AND DAMAGE TO THE TREES OCCURS, VALUABLE SPECIMENS MAY BE LOST.

A. CHARACTERISTICS OF TREES TO BE PROTECTED AND SAVED. THE FOLLOWING LISTS CHARACTERISTICS THAT SHOULD BE EVALUATED BEFORE DECIDING TO REMOVE OR PROTECT A TREE.

(1) TREE MOOR

TREE HEALTH IS THE OVERALL CONDITION OF THE TREE. A TREE OF LOW MGOR IS MORE SUSCEPTIB
DAMAGE BY ENVIRONMENTAL CHANGES THAN HEALTHY TREES AND IS MORE SUSCEPTIBLE TO
INSECT AND DISEASE ATTACKS. INDICATIONS OF POOR WGOR INCLUDE THE DYING OF THE ITPS
OF THE BRANCHES AND ENTIRE LIMBS, SMALL ANNUAL TWIG GROWTH, STUNTED LEAF SIZE, SPARSE
FOLLAGE, AND POOR FOLLAGE COLOR. AVOID SAVING HOLLOW OR ROTTEN TREES, TREES CRACKED,
SPLIT, LEANING OR CROOKED, OOZING SAP, OR WITH BROKEN TOPS.

(2) TREE AGE
VERY OLD, PICTURESQUE TREES MAY BE MORE AESTETICALLY VALUABLE THAN SMALLER, YOUNG
TREES, BUT ALSO REQUIRE MORE EXTENSIVE PROTECTION MEASURES. IF LEAVING A VERY OLD
TREES, BUT ALSO REQUIRE MORE EXTENSIVE PROTECTION MEASURES. IF LEAVING A VERY OLD
TREES, BUT ALSO REQUIRE MORE EXTENSIVE PROTECTION MEASURES. IF LEAVING A VERY OLD

TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A 50'X 25'X 1'
PAD OF 1 1/2' TO 2' STONE, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY
AFTER INITIAL SITE DISTURBANCE.

ACCORDANCE WITH THE STANDARDS FOR PERMANENT VEGETATIVE COVER FOR IL STABILIZATION, ANY SOIL HAVING A pH OF 4 OR LESS OR CONTAINING IN SULFIDES SHALL BE COVERED WITH A MINIMUM OF 12" OF SOIL HAVING A OF 5 OR MORE PRIOR TO SEEDBED PREPARATION.

UNTY SOIL CONSERVATION DISTRICT SHALL BE N

ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (IE: SLOPES GREATER THAN 3:1).

MMEDIATELY FOLLOWING INITIAL DISTURBANCE OF ROUGH GRADING ALL CRITICAL MREAS SUBJECT TO EROSION (IE: STEEP SLOPES, ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING O STATE STANDARDS.

IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.

OUTLET PROTECTION MUST BE INSTALLED AT ALL REC

19. 18. 17. 16. 15.

ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO M.C.S.C.D. FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION & SEDIMENT CONTROL STANDARDS.

COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN OWNERSHIP.

MULCHING TO THE STANDARDS IS REQUIRED FOR OBTAINING A CONDITIONAL REPORT OF COMMINANCE. CONDITIONALS ARE ONLY ISSUED WHEN THE SEASON PROHIBITS SEEDING.

CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN DURNING LIFE OF CONSTRUCTION PROJECT.

THE DEVELOPER SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION AT THE REQUEST OF THE MERCER COUNTY SOIL CONSERVATION DISTRICT.

HYDROSEEDING IS A TWO STEP PROCESS. THE FIRST STEP INCLUDES SEED, 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 SEEDING OPERATION, HYDRO-MULCH SHOULD BE APPUED AT A RATE OF 1500 LBS. PER ACRE IN A SECOND STEP.

THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM SEEDING DATES AS LISTED IN THE STANDARDS.

SEED SELECTIONS	SEEDING (Pou	SEEDING RATES 1 (POUNDS)	OPTIN BASED ON	OPTIMUM SEEDING DATE ² BASED ON PLANT HARDINESS ZONE ³	ATE ² SS ZONE ³	OPTIMUM SEED
SEED SELECTIONS	PER ACRE	PER 1,000 SQ. FT.	ZONE 5b, 6s	d6 ZONE	ZONE 7a, b	DEPTH ⁴ (INCHES)
COOL SEASON GRASSES						
1. PERENNIAL RYEGRASS	100	1.0	3/15-6/1 8/1-9/15	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15	0.5
2. SPRING OATS	86	2.0	3/15-6/1 8/1-9/15	3/1-5/15 8/15-10/1	2/15-5/1 8/15-10/15	1.0
3. WINTER BARLEY	96	2.2	8/1-9/15	8/15-10/1	8/15-10/15	1.0
4. ANNUAL RYEGRASS	100	1.0	3/15-6/1 8/1-9/15	3/15-6/1 8/1-9/15	2/15-5/1 8/15-10/15	0.5
5. WINTER CEREAL RYE	112	2.8	8/1-11/1	8/1-11/15	8/1-12/15	1.0
WARM SEASON GRASSES						
6. PEARL MILLET	20	0.5	6/1-8/1	5/15-8/15	5/1-9/1	1.0
7. MILLET (GERMAN OR HUNGARIAN)	30	0.7	6/1-8/1	5/15-8/15	5/1-9/1	1.0
1. SEEDING RATE FOR WARM SEASONS GRASS, SELECTIONS 5-7 SHALL BE ADJUSTED TO REFLECT THE AMOUNT OF PURE LINE SEED (PLS) AS DETERMINED BY A GERMINATION TEST RESULT. NO ADJUSTMENT IS REQUIRED FOR COOL SEASON GRASSES.	(PLS) A	GRASS, SELECT AS DETERMINEI SSES.	TIONS 5-7 SH D BY A GERMII	ALL BE ADJUST NATION TEST R	TED TO REFLECT	JSTMENT

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<u> </u>	D.		ç.	œ
MULCHING.	AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED—TO—SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE. THIS IS THE PREDERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.	THE MIX ONTO THE PREPARED SEEDBED. MUCH SHALL NOT BE INCLUDED IN THE TAKE WITH SEED. SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION IV MULCHING) HYDROSEEDING IS NOT A PREFERRED SEEDINH METHOD BECOUSE SEED AND FERTILIZER ARE APPLIED TO THE SURPACE AND NOT INCORPORATED INTO THE SOIL. POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.	HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED WATER AND FERTILIZER AND SPRAYING	CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF $1/4$ TO $1/2$ INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE $1/4$ INCH DEEPER ON COARSE TEXTURED SOIL.

MULCHING
MULCHING IS REQUIRED ON ALL SEEDING, MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL. SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT.

A. STRAW OR HAY. UNINROTITED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPULED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FETE), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT). THE RATE OF APPUCATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH-HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.

APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 85% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK OR TRAILER MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED SHORT FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. (ALSO SEE SECTION IV MULCHING) HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSES SEED AND FERTILIZER ARE APPLIED TO THE SUFFACE AND NOT INCOPPORATED INTO THE SOIL, POOR SEED TO SOIL CONTACT OCCURS REDUCING SEED GERMINATION AND GROWTH. HYDROSEEDING MAY BE USED FOR AREAS TOO STEEP FOR CONVENTIONAL EQUIPMENT TO TRAVERSE OR TOO OBSTRUCTED WITH ROCKS, STUMPS, ETC.

AFTER SEEDING, FIRMING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED—TO—SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE. THIS IS THE PREDERRED METHOD. ON SITE WILL BE MAXIMIZED.

CIET WILL	MULCHING MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTAB— MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL INSURE AGAINST EROSION BEFORE GRASS IS ESTAB— LISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL. SOIL EROSION SHALL BE DEEMED COMPLIANCE WITH THIS MULCHING REQUIREMENT. LISTAGW OR HAY LINNROTTED SMAIL GRAIN STRAW HAY FREF OF SEFONS TO RE APPLIED.
≯	STRAW OR HAY. UNNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS TO BE APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.
	APPLICATION. SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
	ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.
	1. PEG AND TWINE. DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET 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 A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
	MULCH NETTINGS. STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTINGS TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
	3. CRIMPER (MULCH ANCHORING COULTER TOOL), A TRACTOR—DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES.

NOTO APPROXIMATELY 1,000 SOLVARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

ANCHORING STALL BE ACCOMPUSHED MAEDIATELY AFTER PLACEIENT TO INMINIZE LOSS BY WITHIN OR ANCHORING STALL BE ACCOMPUSHED MAEDIATELY AFTER PLACEIENT TO INMINIZE LOSS BY WITHIN OR ANCHORING STALL BE ACCOMPUSHED MAINT BY ORDER PEGS TO WITHIN 2 TO 3 MOHES OF THE SOL SURFACE LOSS AND ASCENCE THE SOL SURFACE EVERY 4 FEET IN ALL DIRECTIONS, STIAKES MAY BE DONE FOR STATE THE SOL SURFACE EVERY 4 FEET IN ALL DIRECTIONS, STIAKES MAY BE DONE FOR STATE THE SOL SURFACE EVERY 4 FEET IN ALL DIRECTIONS, STIAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH S TO BE SOLUTED AND STATE AND STA

MATERIALS WHEN MIXED WITH WATER FORMULATES A GEL AND WHEN APPLIED TO MULCH UNDER SATISFACTORY CURING CONDITIONS WILL FORM MEMBRANED NETWORKS OF INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND NOT RESULT IN A PHYTOTOXIC FFFECT OR IMPEDE GROWTH OF TURFGRASS. USE AT RATES AND WEATHER CONDITIONS AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH MATERIALS. MANY NEW PRODUCTS ARE AVAILABLE, SOME OF WHICH MAY NEED FURTHER EVALUATION FOR USE IN THIS STATE.
(2) SYNTHETIC BINDERS — HIGH POLYMER SYNTHETIC EMULSION, MISCIBLE WITH WATER WHEN DILUTED DISPERSIBLE IN WATER, IT SHALL BE APPLIED AT RATES RECOMMENDED BY THE MANUFACTURER AND REMAIN TACKY UNTIL GERMINATION OF GRASS. AND REMAIN TACKY UNTIL GERMINATION OF GRASS.
AND FOLLOWING APPLICATION TO MULCH, DRYING AND CURING SHALL NO LONGER BE SOLUBLE OR NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.
WOOD-FIBER OR PAPER-FIBER MULCH. SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. THIS MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
PELLETIZED MULCH. COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS AND COLORNIG AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDED AREA ADN WATERED, FORMA MULCH MAT. PELLETIZED MULCH STALL BE APPLIED IN ACCORDANCE WITH THE
MANUFACTURERS RECOMMENDATIONS. MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS;7,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDED AREAS WHERE WEED—SEED FREE MULCH IS DESIRED OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE.
APPLYING THE FULL 0.2 TO 0.4 INCHES OF WATER AFTER SPREADING PELLETIZED MULCH ON THE SEED BED IS

IRRIGATION (WHERE FEASIBLE)

IF SOIL MOISTURE IS DEFICIENT, AND MULCH IS NOT USED, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGEATATION IS WELL ESTABLICHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.

SINCE SLOW RELEASE NITROGEN FERTILZER (WATER INSOLUBLE) IS PRESCRIBED IN SECTION II. A. SEEDBED PREPARATION II. HIS STANDARD, NO FOLLOW-UP OF TOPDRESSING IS MANDATORY, AN EXCEPTION MAY BE MADE WHERE GROSS NITROGEN DEFICIENCY EXISTS TO THE EXTENT THAT TURF FAILURE MAY DEVELOPE. IN THAT INSTANCE, TOPDRESS WITH 10-10-10- OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET.

TABLISHING PERMANENT VEGETATIVE STABILIZATION

TABLISHING PERMANENT VEGETATIVE STABILIZATION

BY A PERMANENT VEGETATIVE STABILIZATION

TO STABILISH THE CONTRACTOR. THE TIMING OF SEEDING, PREPARING THE EDED, APPLYING NUTRIENTS, MULCH AND OTHER MANAGEMENT ARE ESSENTIAL. THE SEED APPLICATION RATES IN 1816 4-3 (PG.4-7) ARE REQUIRED WHEN A REPORT OF COMPLANCE ID REQUESTED PRIOR TO ACTUAL ESTABLISHMENT BETABLISHED PRIOR TO REQUESTED WHEN A REPORT OF COMPLANCE ID REQUESTED PRIOR TO SEMANINE VEGETATION OF SEMANENT VEGETATION RATES MAY BE USED WHEN PERMANENT VEGETATION THOSE OF SEEDING. TO REQUESTING A REPORT OF COMPLIANCE FROM THE DISTRICT. THESE RATES APPLY TO ALL THOSE OF SEEDING. ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVER (OF THE SEEDED SPECIES) D MOWED ONCE.

TABLE 4-2
PERMANENT STABILIZATION MIXTURES FOR VARIOUS USES

SOMEWHAT POORLY TO POORLY DRAINED

18

2 10, 18, 19

2 10, 18, 19

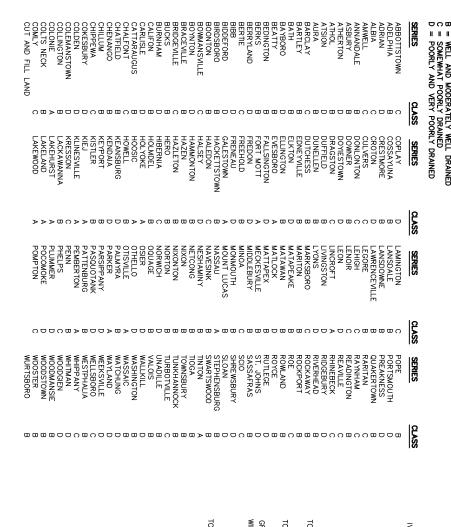
2 11, 13, 14

18

HEAVIER AT EDGES WHERE WIND MAY CATCH THE MULCH, IN VALLEYS, AND HE REMAINDER OF THE AREA SHOULD BE UNIFORM IN APPEARANCE.



A TRUCK OR TRAILER MOUNTED TANK,	USUALLY INVOLVING	C. HYDROSEEDING IS A BROADCAST SEEDING METHOD
BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEEDBED PREPARATION TO A DEPTH OF 1/4 MAY BE 1/4 INCH DEEPER ON COARSE	NG SEED UNIFORMLY EXCEPT FOR DRILLED, ATHIN 24 HOURS OF S OF SEED PLACEMENT	B. CONVENTIONAL SEEDING IS PERFORMED BY APPLING SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER, EXCEPT FOR DRILLED, HYDROSEEDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL MITHIN 24 HOURS OF SEEDBED PREPARATION TO A DEPTH OF 1/4 TO 1/2 NICH, BY RAKING OR DRAGGING, DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.
MIZE GROWTH AT TEMPERATURES LE 3, MIXTURES 8-20. ADJUSTMENT OF E SEED IS NOT REQUIRED FOR COOL	LEGUMES WHICH MAXII E AT 65° F. SEE TABL MOUNT OF PURE LIVE	3. COOL SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT TEMPERATURES BELOW 85' F. MANY GRASSES BECOME ACTIVE AT 65' F. SEE TABLE 3, MIXTURES 8-20. ADJUSTMENT PLANTING RATES TO COMPENSATE FOR THE AMOUNT OF PURE LIVE SEED IS NOT REQUIRED FOR COOL SEASON GRASSES.
IMIZE GROWTH AT HIGH TEMPERATURES, IS 1 TO 7. PLANTING RATES FOR WARM S) AS DETERMINED BY GERMINATION	LEGUMES WHICH MAXI -3 (PG.4-7), MIXTURE PURE LIVE SEED (PL	 WARM SEASON MIXTURES ARE GRASSES AND LEGUMES WHICH MAXIMIZE GROWTH AT HIGH TEMPERATURES, GENERALLY 85' F AND ABOVE. SEE TABLE 4-3 (PG.4-7), MIXTURES 1 TO 7. PLANTING RATES FOR WARM SEASON GRASSES SHALL BE THE AMOUNT OF PURE LIVE SEED (PLS) AS DETERMINED BY GERMINATION TESTING RESULTS.
APLIANCE IS REQUESTED PRIOR TO EDUCTION IN RAITES MAY BE USED REPORTED FOR THE STATE OF COMPLIANCE INSPECTION. PERMANENT VEGETATION MEANS THE SEEDED AREA AND MOWED	EN A REPORT OF COM ATATION. UP TO50% R ED PRIOR TO A REPOR EEDING. ESTABLISHING IED SEED MIXTURE FO	 SEEDING RATES SPECIFIED ARE REQUIRED WHEN A REPORT OF COMPLIANCE IS REQUESTED PRIOR TO ACTUAL ESTABLISHMENT OF PERMANENT VEGATATION. UP TOSO'S REDUCTION IN RATES MAY BE USED WHEN PERMANENT VEGETATION IS ESTABLISHED PRIOR TO A REPORT OF COMPLIANCE INSPECTION. THESE RATES APPLY TO ALL METHODS OF SEEDING, ESTABLISHING PERMANENT VEGETATION MEANS 80% VEGETATIVE COVERAGE WITH THE SPECIFIED SEED MIXTURE FOR THE SEEDED AREA AND MOWED ONCY.
OMMENDED BY RUTGERS VNCE WHICH IS APPROVED BY THE RESTED WITHIN 12 MONTHS OF THE TEST DATE MORE THAN 12 MONTHS	OR USE MIXTURE REC S CONSERVATION SER SHALL HAVE BEEN T WITH A GERMINATION 1	III. SEEDING A. SELECT A MIXTURE FROM TABLE 4-3 (PG, 4-7) OR USE MIXTURE RECOMMENDED BY RUTGERS COOPERATIVE EXTENSION OR NATURAL RESOURCES CONSERVATION SERVICE WHICH IS APPROVED SOIL CONSERVATION DISTRICT. SEED GERMINATION SHALL HAVE BEEN TESTED WITHIN 12 MONTHS PLANTING DATE, NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE MORE THAN 12 OLD UNLESS RETESTED.
LL BE COVERED WITH A MINIMUM) PREPARATION. SEE STANDARD	NG IRON SULFIDE SHAI ORE BEFORE SEEDBED S, PG. 1–1.	
6" TO 12" WHERE THERE HAS HERE IS NO DANGER TO	HOULD BE SCARIFIED SIBLE ONLY WHERE THE STEMS, ETC.).	C. IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE BEEN SOIL COMPACTION. THIS PRATICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTULITIES (CABLES, IRRIGATION SYSTEMS, ETC.). D. HIGH ACID PRODUCING SOIL.
TO A DEPTH OF 4 NOHES WITH IE FINAL HARROWING OR DISCING UNTIL A REASONABLY UNIFORM	EARLY AS PRACTICAL TABLE EQUIPMENT. THI JR. CONTINUE TILLAGE	ORK LIME AND FERTILIZER INTO DISC. SPRINGTOOTH HARROW, PERATION SHOULD BE ON THE EEDBED IS PREPARED.
SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.	SOILS	PULVERIZED DOLOMITIC LIMESTONE IS PERFERRED FOR MOST
45	-	
90	2 3	CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL SANDY LOAM, LOAM, SILT LOAM
LBS. / 1,000 SQ. FT.	TONS/ACRE	SOIL TEXTURE
TEXTURE	BY SOIL	LIMESTONE 1. APPLICATION RATE
RECOMMENDATIONS SUCH AS RS ARE AVAILABLE FROM THE BE APPLIED AT THE RATE OF F 10-20-10 OR EQUIVALENT S OTHERWISE. APPLY LIMESTONE IL TESTING. CALCIUM CARBONATE LIMING MATERIALS TO NEUTRALIZE D LEGUMES. TABLE 4-1 IS A	DRDING TO SOIL TEST SOIL SAMPLE MAILE. S. FERILZER FEALL ODO SOLVARE FEET OF ODO SOLVARE FEET OF SOIL THE RESULTS OF SOIL RING THE ABILITY OF I SILM TO GRASSES ANI. I.	II. SEEDBED PREPARATION A. APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES, FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. APPLY LIMESTONE IN ACCORDANCE WITH TABLE 4-1, PG 4-2 AND THE RESULTS OF SOIL TESTING, 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. TABLE 4-1 IS A GENERAL GUIDELINE FOR LIMESTONE APPLICATION. TABLE 4-1
K MIH OUT DAMAGING HE SOIL D ON ALL SITES, TOPSOIL NCE MIH THE STANDARDS FOR TOPSOILING.	SETTLED) IS REQUIRED NEEDED, IN ACCORDAN	C. IDESOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY INQUEH TO WORK WITH OUT DAMAGING THE SOIL A UNIFORM APPLICATION TO A DEPTH OF 5" (UNSETTLED) IS REQUIRED ON ALL SITES. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARDS FOR TOPSOILING
OIL SHALL BE EVALUATED ADING.	PLICATION, THE SUBSINDARD FOR LAND GRA	
IONAL EQUIPMENT FOR SEEDBED ALL GRADING SHOULD BE DONE	THE USE OF CONVENTI D MULCH ANCHORING. ADING.	I. SIIE PREPARATION A. GRADE AS NIEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARDS FOR LAND GRADING.
ENVIRONMENTAL DAMAGE.	PLICABLE FOR CAUSING OFF—SITE D MATERIALS	EXPC
AATON AND RETAINS SOIL AND ES.	ANCEMENT F, INCREASES INFILTR RMWATER CONVEYANCE	WATER QUALITY ENHANCEMENT SLOWS THE OVER LAND MOVEMENT OF STORMWATER RUNOFF, INCREASES INFILTRATION NUTRIENTS ON SITE, PROTECTING STREAMS OR OTHER STORMWATER CONVEYANCES.
AND WATER, AND TO ENHANCE THE	VATION OF SOIL AND	$\begin{tabular}{ll} \hline \textbf{PURPOSE} \\ \hline \textbf{TO PERMANENTLY STABILIZE THE SOIL,} & \textbf{ASSURING CONSERVATION OF} \\ \hline \textbf{ENVIRONMENT.} \\ \hline \end{tabular}$
PERENNIAL VECETATION IS NEEDED	<u>ION</u> EXPOSED SOILS WHERE P	<u>DEFINITION</u> ESTABLISHMENT OF PERMANENT VEGETATIVE COVER ON EXF FOR LONG TERM PROTECTION.
STABILIZATION	FOR SOIL STA	STANDARD PERMANENT VEGETATIVE COVER



TILLAGE — TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMER-	ANIONIC ASPHALT EMULSION 7:1 COARSE SPRAY 1,200 LATEX EMULSION 12.5:1 FINE SPRAY 235 RESIN IN WATER 4:1 FINE SPRAY 300	WATER TYPE OF NOZZLE GALLONS/AGRE	SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.	VEGETATIVE COVER $-$ SEE STANDARDS FOR: TEMPORARY VEGETATIVE COVER (P. 3.6.1), PERMANENT VEGETATIVE COVER (P. 3.2.1), AND PERMANENT STABILIZATION WITH SOD (P. 3.6.1).	MULCHES - SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY (P. 3.3.1).	THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:	PLANNING CRITERIA	THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON— AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT. CONSULT WITH LOCAL MUNICIPAL ORDINANCES ON ANY PRETRICTIONS	WHERE APPLICABLE	TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON- AND OFF-SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.	PURPOSE	THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS.	<u>DEFINITION</u>	DUST CONTROL	FOR		DUCE ON AND OFF-SITE NT WHERE ON AND AL ORDINANCES ON ANY (P. 3.6.1), PERMANENT (.6.1). KEEP TRAFFIC OFF APPLY GALLONS/ACRE 1,200 235 300 10 S A TEMPORARY EMER- GIN PLOWING ON WINDWARD	SOIL SURFACES WING AND MOV TH LOCAL MUNI TH LOCAL MUNI TH LOCAL MUNI TH LOCAL MUNI THE SPRAY FINE	FOR FOR FOR T CONTRO DEFINITION S AND ROADS. PURPOSE FRAFFIC SAFET REAFFIC SAFET REAFFIC SAFET RE APPLICABL CT TO DUST E CONSULT INNING CRITERI ED FOR CONTE ATION WITH ML ATION WITH ML TON WITH ML	THE CONTROL OF DUST ON CONSTRUCTION SITE TO PREVENT BLOWING AND MOVEMENT OF DUST DAMAGE AND HEALTH HAZARDS, AND IMPROVE WHIT THIS PRACTICE IS APPLICABLE TO AREAS SUBJE OFF-SITE DAMAGE IS LIKELY WITHOUT TREATME RESTRICTIONS. PLA THE FOLLOWING METHODS SHOULD BE CONSIDER MULCHES - SEE STANDARDS FOR STABILIZ VEGETATIVE COVER - SEE STANDARDS FOR VEGETATIVE COVER (P. 3.2.1), AND PERMAL SPRAY-ON ADHESIVES - ON MINERAL SOIL THESE AREAS. ANIONIC ASPHALT EMULSION RESIN IN WATER TILLAGE - TO ROUGHEN SURFACE AND BRIGHTON SHOULD BE USED
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SERIES	CLASS	SERIES	CLASS	SERIES	CLASS	SERIES	CLASS
ABBOTTSTOWN	C	COPLAY	D	LAMINGTON	ဂ	POPE	œ
ADELPHIA	œ	COSSAYUNA	в	LANSDALE	œ	PORTSMOUTH	D
ADRIAN	0	CRESTMORE	œ	LANSDOWNE	ω :	PREAKNESS	0
ALBIA	ဂ	CROTON	D	LAWRENCEVILLE	œ	QUAKERTOWN	₿
AMWELL	O	CULVERS	O	LEGORE	В	RARITAN	C
ANNANDALE	ω,	DONLONTON	o :	LEHIGH	o 1	RAYNHAM	0
ASBURY	80	DOWNER	B	LENOIR	O	READINGTON	₿
ATHERTON	D	DOYIESTOWN	D	LEON	D	REAVILLE	C
ATHOL	В	DRAGSTON	C	LINCROFT	⊳	RHINEBECK	C
ATSION	0	DUFFIELD	₿	LIVINGSTON	D	RIDGEBURY	o
AURA	В	DUNELLEN	В	LYONS	D	RIVERHEAD	₿
BARCLAY	C	DUTCHESS	₿	MARKSBORO	C	ROCKAWAY	80
BARTLEY	Φ	EDNEYVILLE	œ	MARITON	В	ROCKPORT	8
BATH	œ	ELKTON	D	MATAPEAKE	₿	ROE	C
BAYBORO	0	ELLINGTON	ω	MATAWAN	œ	ROWLAND	00
BEATTY	ο α	EVESBORO	7 ≻	MATLOCK	0	ROYCE	σ
BEDINGTON	σ	FALLSINGTON	> =	MALIATEX	σ	אַט ורבּפּבּ	, ,
BERRYI AND	5 0	FREDON	7	MIDDLEBLIRY	00 00	SASSAFRAS	ם כ
BERTIE		FREEHOLD	ים	MINOA		SCIO	י כ
BIBB	0 (FRENEAU	0 (MONMOUTH	Φ (SHREWSBURY	0 (
BIDDEFORD	0	GALESTOWN	≻	MOUNT LUCAS	œ	SLOAN	0
BIRDSBORO	œ	HACKETTSTOWN	В	NASSAU	⊳	STEPHENSBURG	80
BOONTON	œ	HALEDON	· 0	NAVESINK	00	SWARTSWOOD	B
BOWMANSVILLE	0	HALSEY	0	NESHAMINY	σ	TINTON	>
BOYNION	, c	HAMMONION	α	NE I CONG	α	TOWA	α
BRACEVILLE	œ	IAZEN	α	NIXON	σ	TOWNSBURY	σ
BRIDGEVILLE	ם כ	HAZLETON	σα	NIXONION	σα	TURNANNOCK	α
BUCK	α	I E K C	σ	NORICN	σ) C
	0 0	בוסראוא	ם כ		0 0	VALOIS	0 0
CARLISLE	ם כ	HOI YOKE	⊳ 0	OSIER	5 0	WALLKII	> 0
CATTARALIGIS	D C	HOOSIC	> :	OTHELLO	J (WASHINGTON	ס כ
CHALFONT		HOWFIL	ָכ ע	OTISVILLE	> □	WASSAIC	D C
CHATFIELD		KEANSBURG	D (PALMYRA	w;	WATCHUNG	D (
CHENANGO	ш,	KENDAIA	D	PARKER	> 1	WAYLAND	0
CHILLUM	œ	KEYPORT	₿	PARSIPPANY	D	WEEKSVILLE	D
CHIPPEWA	C	KISTLER	80	PASQUOTANK	D	WELLSBORO	ဂ
COKESBURY	0	진	≻	PATTENBURG	œ	WESTPHALIA	Φ
COLDEN	0	KLINESVILLE	⊳	PEMBERTON	>	WHIPPANY	ဂ
COLEMANSTOWN	0	KRESSON	ဂ	PENN	w i	WHITMAN	D
COLLINGTON	œ	LACKAWANNA	œ	PHELPS	ဂ	WOODGIEN	D
COLONIE	>	LAKEHURST	>	PLUMMER	0	WOODMANSIE	Φ,
COLTS NECK	ж ;	LAKFI AND	▶ :	POCOMOKE	J (WOODSTOWN	JD (
COMLY	O 1	LAKEWOOD	>:	POMPTON	0	WOOSTER	œ t
CUT AND FILL LAND						WURTSBORO	œ

BARRIERS – SOILD BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SMILAR MATERIAL CAN BE USED TO CONTROL HAR CURRENTS AND SOIL BLOWNG. 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 DAMMAGE. IF USED ON STEEPER SLOPES, THAN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS.	SPRINKLING — SITE IS SPRINKLED UNTIL THE SURFACE IS WET.	TILLAGE — TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMER—GENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE: SHISEL—TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING—TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.	ANIONIC ASPHALT EMULSION LATEX EMULSION RESIN IN WATER		SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.	VEGETATIVE COVER $-$ SEE STANDARDS FOR: TEMPORARY VEGETATIVE COVER $(P.\ 3.6.1)$, PERMANENT VEGETATIVE COVER $(P.\ 3.6.1)$.	MULCHES - SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY (P. 3.3.1).	THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST.	PLAN	THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO DUST BLOWING AND MOVEMENT WHERE ON- AND OFF-SITE DAMAGE IS LIKELY WITHOUT TREATMENT. CONSULT WITH LOCAL MUNICIPAL ORDINANCES ON ANY DESTRIPTIONALS.	WHER	TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON- AND OFF-SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.
NTROL AIR CUNTROL AIR CUNTROL AIR CUNTROL AIR CUNTROL AIR CUNTROL AIR INTERCUMULATION ACUMULATION A	SURFACE IS W	CLODS TO TO FORE SOIL BL ABOUT 12 IN. RODUCE THE D	7:1 12.5:1 4:1	WATER DILUTION	(NOT EFFECTIVE	TEMPORARY NT STABILIZAT	ION MTH MUL) FOR CONTRO	PLANNING CRITERIA	T TO DUST BL	WHERE APPLICABLE	ROM EXPOSED
PERNOES, CRATE WAIRRENTS AND SOIL BURY GRANULES OR FLAT WILL KEEP SURFIPER SLOPES, THAN LROUND PLANTS.	VEΤ.	HE SURFACE. THIS IS OWING STARTS. BEGI CHES APART, AND SP DESIRED EFFECT.	COARSE SPRAY FINE SPRAY FINE SPRAY	TYPE OF NOZZLE	VE ON MUCK SOILS).	VEGETATIVE COVER (FION WITH SOD (P. 3.6	CHES ONLY (P. 3.3.1)	LLING DUST:		TO DUST BLOWING AND MOVEMENT WHERE ON- AND CONSULT WITH LOCAL MUNICIPAL ORDINANCES ON $^{\prime}$		SOIL SURFACES, RED
W FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, CONTROL AIR CURRENTS AND SOIL BLOWNG. FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO ERS AT A RATE THAT WILL KEEP SUFFACE MOIST BUT NOT IF USED ON STEEPER SLOPES, THAN USE OTHER PRACTICES ACCUMULATION AROUND PLANTS.		THIS IS A TEMPORARY EMER- . BEGIN PLOWING ON WINDWARD AND SPRING-TOOTHED HARROWS T.	1,200 235 300	APPLY GALLONS/ACRE	KEEP TRAFFIC OFF	o. 3.6.1), PERMANENT 3.1).	•			T WHERE ON- AND ORDINANCES ON ANY		JUCE ON- AND OFF-SITE

	US CLASSIFICATION INTO SITE CONDI A = DROUGHTY B = WELL AND MODERATELY WELL DRAINED C = SOMEWHAT POORLY DRAINED C = SOMEWHAT POORLY DRAINED C = SOMEWHAT POORLY DRAINED	21. a. PURPLEOSIER WILLOW b. DWARF WILLOW c. REDOSIER DOGWOOD d. SILKY DOGWOOD	21. a. SMOOTH CORDGRASS b. SALTMEADOW CORDGRASS 22. AMERICAN BEACHGRASS 22. AMERICAN BEACHGRASS	20. HARD OR SHEEPS FESCUE N.E. WILDFLOWER MIXTURE	FESCUE 19. CREEPING BENTGRASS CREEPING RED FESCUE ALKALI SALTGRASS	17. HARD FESCUE CREEPING FESCUE PERENNIAL RYEGRASS 18. ROUGH BLUEGRASS STRONG CREEPING RED	 TALL FESCUE KY. BLUEGRASS (BLEND) PERENNIAL RYEGRASS (BLEND) 	15. HARD FESCUE PERENNIAL RYEGRASS KY. BLUEGRASS (BLEND)	13. REED CANARYSRASS TURF—TYPE TALL FESCUE 14. TURF—TYPE TALL FESCUE (BLEND OF 3 CULTIVERS)	12. TALL FESCUE (TURF-TYPE) REDTOP OR PERENNIAL RYEGRASS BIRDSFOOT TREFOIL OR WHITE CLOVER	11. DEERTONGUE REDTOP MILD RYE (ELYMUS) SMICHGRASS	10. TALL FESCUE (TURF-TYPE) STRONG CREEPING RED FESCUE OR SYEGRASS PERENNAL RYGGRASS PLUS CROWNVETCH OR FLATPEA	9. STRONG CREEPING RED FESCUE KENTUCKY BLUEGRASS PERENNIAL RYEGRASS OR REDTOPHITE CLOVER PLUS WHITE CLOVER	MIXTURES B. FINE FESCHE (BLEND) HADD FESCHE STRONG CREEPING RED FESCHE FESCH FESCHE FESCH FESCHE FESCHE FESCHE FESCHE FESCH FESCHE FESCHE FESCHE FESCHE F	7. DEERTONGUE WEEPING LOVEGRASS SERECIA LESPEDEZA	B. BERMUDAGRASS S. OYSIAGRASS (SEED) ZOYSIAGRASS (SPRIGS)	BIG BLUESTEM LITTLE BLUESTEM SAND LOVEGRASS SAND LOVEGRASS	4. SWITCHGRASS DEERTONGUE LITTLE BULESTEM SHEEP FESCUE PLUS PARTRIDGE PEA	3. WEEPING LOVEGRASS FLATPEA OR SERECIA LESPEDEZA	
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SERIES SERIES COPLAY COSSAVUNA CRESTINGRE CROTON CULVERS DONLONTON DUNELLEN DOVIESTON DUNELLEN DUNEL	USDA – SCS – NJ CLASSIFICATION OF NEW JERSEY SOIL INTO SITE CONDITIONS IMPORTANT TO DERATELY WELL DRAINED DESTRUCTOR DRAINED DESTRUCTOR DRAINED	BEFORE MAY 10		0	0 (0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	_
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LAMINGTON LANSDOWNE LANSDOWNE LANSDOWNE LAWRENCEVILLE LEGORE LEHIGH LEHIGH LENOIR LENOIR LENOIR LENOIR LENOIR LENOIR LENOIR LOROFT LLVNRSTON MARKSBORO MORTON NORTON	RTA RTA	₹ ₩		0	-+	0	0	\vdash	0 0	0		0	0	0	BEFORE 9/15					_
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POPE PORTISMOUTH PREAKVIESS QUAKERTOWN RARITAN READINGTON REAVILLE ROCKPORT		BETWEEN ROSS OF BEACHGRASS. ALSO REFER TO CHAPTERS 16 AND 18 OF ENGINEERING FIELD HANDBOOK. USDA-NRCS	PLANTED IN THE INTERTIDAL ZONE. PLANTED ABOVE MEAN HIGH TIDE.	SALINE CONDITIONS. REGIONAL WILDFLOWER MIX. HYDROSEEDING NOT RECOMMENDED.	USE BENTGRASS UNDER WETTER CONDITIONS. SALTGRASS WILL ONLY PERSISTENT UNDER	LOW MAINTENANCE FINE FESCUE LAWN MIX. MOIST SHADE.	ATHLETIC FIELD/MIX 3 CULTIVARS. OF KENTUCKY BLUEGRASS.	GENERAL LAWN/RECREATION.	NUTRIENT UPTAKE. USE IN A MANAGED FILTER STRIP FOR	BIRDSFOOT TREFOIL IS BEST ADAPTED TO ZONE 5.	NATIVE WET MIX.	TALL FESCUE BEST SELECTED FOR DROUGHTY CONDITIONS USE CREEPING RED FESCUE IN HEAVY SHADE. SUPPRESS WOODY VEGETATION.	SUITABLE WATERWAY MIX, CAMADA BLUEGRASS MORE DROUGHT TOLERANT. USE REDTOP FOR NICREASED DROUGHT TOLERANCE.	GENERAL LOW MAINTENANCE MIXTURE.	USE THIS MIX IF pH<4.5 AND TOXIC METALS PRESENT.	BERMUDAGRASS HAS SUPERIOR SALT TOLERANCE. ZOYSIA HAS GREATER WEAR TOLERANCE.	NATIVE WARM- SEASON MIXTURE.	PINELANDS MIXTURE.	INVADING WOODY VEGETATION.	7a. 7b.
CLASS IV. TOPDRESSING - IF ADDITION TO SUGG B DEFIENCY IN THE C C C C C C C C C C C C C C C C C C C	SAMU EUGES W SAME TECHNIU AREAS. WRE F. IMMEDIATELY F LAYER BENEA WEEKS.	D. ON SLOPES OF SPITI SHINGLE SPITI SHINGLE E. SURFACE WATE CAPPING STRI		THE WORK OF THE WORK AND INTERPRETATION OF THE WORK AND INTERP	III. SOD PLACEMENT A. SOD STRIPS (BOTTOM OF	D. INSPECT SITE RETILLED AND	C. REMOVE FROM REMOVE ALL (LUMPS, OR O'	OPERATION SH FINE SEEDBED	B. WORK LIME AN	SANDY LOAM, SANDY LOAMY SAND, LOAMY SAND,	SOIL TEXTURE		COOPERATIVE SITES, OR WH WITH 50% WAS SURFACE 4".	B. TOPSOIL SHOUSTRE. IS STRUCTURE. IN STRUCTURE. IN SOIL PREPARATION A. APPLY LIMEST	FERTILIZING, A	I. SITE PREPARATION A GRADE AS NE	6. ONLY MOIST, FRE	5. FOR DROUGHTY S	4. SOD SHOULD BE SUSPENDED VERT OR TORN AND UI	

II. STRIPPING AND STOCKPILLING	D (
B. TOPSOIL SUBSTITUTE IS A MATERIAL WHICH MAY HAVE BEEN AMMENDED WITH SAND, FERTILIZER, OR LIME AND HAS THE APPEARANCE OF TOPSOIL TOPSOIL SUBSTITUTES MAINSTRUCKEN TOPSOIL FOR ESTABLISHING FERMANENT VEGATATION. ALL TOPSOIL SUBSTITUTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO SAND, SILT, CLAY ORGANICMATTER, SOLUABLE SALTS AND PH LEVEL.	n w n o o o o
A. TOPSOIL SHOULD BE FRABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEED NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. A PH RANGE OF SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMHO TOPSOIL HAULED IN FROM OFF SITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTROL MAY BE RAISED BY ADDITIVES.	, m c m m c
I. MATERIALS	X D CD CL
METHODS AND MATERIALS	¤ &>
TOPSOIL SHALL BE USED WHERE SOILS ARE TO BE DISTURBED AND WILL BE REVEGETATED.	- ĉ
WHERE APPLICABLE	, , ,
WATER QUALITY ENHANCEMENT GROWTH AND ESTABLISHMENT OF A VIGOROUS COVER IS FACILITATED BY TOPSOIL, PERVEN WIND AND RAIN OFFSITE INTO STREAMS AND OTHER CONVEYANCES.	00000
TO IMPROVE THE SOIL MEDIUM FOR PLANT ESTABLISHMENT AND MAINTENANCE.	യറയ
Topsoiling entails the distribution of suitable quality soil on areas to be veget
STANDARD FOR TOPSOILING	00000
IV. <u>TOPDRESSING</u> — IF SLOW RELEASE NITROGEN (400 POUNDS 10-10-10 PER ACRE OR E ADDITION TO SUGGESTED FERTILIZER, THEN A FOLLOW UP EVERY 3 TO 5 WEEKS UNTILL DEFIENCY IN THE TURF IS AMELIORATED.	B D B CLASS

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SITE PREPARATION SITE PREPARATION SITE PREPARATION SITE PREPARATION SITE PREPARATION SITE PREPARATION OF EXPOSURE OF THE OPTIMAL SEEDING PERIOD SO AS TO MINIMIZE THE DURATION OF EXPOSURE OF DISTURBED SOL TO ERRORS WITH THE	STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH STANDARDS PREVIOUSLY DESCRIBED HEREIN; SEE PAGE 4-1 OR TEMPORARY (PG7-1). WEEDS SHOULD NOT BE ALLOWED TO GROW ON STOCKPILES.	STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.	WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY THE SOIL TESTS TO BRING THE SOIL PH TO APPROXIMATELY 6.5 LEVEL. A 4-6 INCH STRIPPING DEPTH IS COMMON. BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.	STRIPPING SHOULD BE CONFINED TO THE IMMMEDIATE CONSTRUCTION AREA.	FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHTER QUANTITY AND OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.	STRIPPING AND STOCKPILLING	FRILIZER, OR LIME AND HAS THE APPEARANCE OF TOPSOIL TYPIC SUBSTITUTES MAT BE USED ON SITES WITH NSUFFICIENT TOPSOIL FOR ESTABLISHING PERMANENT VEGATATION. ALL TOPSOIL SUBSTITUTE MATERIALS SHALL MEET THE REQUIREMENTS OF TOPSOIL NOTED ABOVE. SOIL TESTS SHALL BE PERFORMED TO DETERMINE THE COMPONENTS OF TAND, SILT, CLAY ORGANICMATTER, SOLUABLE SALTS AND PH LEVEL.	TOPSOIL SUBSTITUTE IS A MATERIA MICHAEL OF TOPSOIL TOPSOIL SUBSTITUTE AND LACE THE ANGLES OF TOPSOIL SUBSTITUTE IS A MATERIA MICHAEL OF TOPSOIL TOPSOIL SUBSTITUTE AND LACE THE ANGLES OF TOPSOIL TOPS	A. TOPSOIL SHOULD BE FRABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. A FIN PRANCE OF 5.0-7.5 IS ACCEPTABLE. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLMHOS PER CENTIMETER). TOPSOIL HAULED IN FROM OFF SITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT.	
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SEE FAGE 4-1 OK TEMFORAKT (FG/-1). WEEDS SHOOLD NOT BE ALLOWED TO GROW ON STOCKFILES.	
II. SITE PREPARATION	III. MULCH ANCHORING - SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF HAY OR STRAW
A. GRADE AT THE ONSET OF THE OPTIMAL SEEDING PERIOD SO AS TO MINIMIZE THE DURATION OF EXPOSURE OF DISTURBED SOLTO EROSION. IMMEDIATELY PROCEES O ESTABLISH VEGATATIVE COVER IN ACCORDANCE WITH THE	MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHOD DEPENDING UPON THE SIZE OF THE AREA AND STEEPNESS OF SLOPES.
SPECIFIED SEED MIXTURE. TIME IS OF THE ESSENCE. B. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION. SEEDING, MULCH APPLICATION AND MICHORIN, AND MAINTENANCE. SEE STANDARDS FOR LAND GRADING PG 19-1	A. PEG AND TWINE - DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MILLOH OF STRIPS AND ACRISS-COOK
C. AS GUIDANCE FOR IDEAL CONDITIONS, SUBSOIL SHOULD BETESTED FOR LIME REQUIREMENT. LIMESTONE, IF NEEDED, SHOULD RE APPLIED TO BRING SOIL TO A PH OF APPROX 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS	AND A SQUARE PATTERN. SECURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
PRACTICAL TO A DEPTH OF 4".LISH VEGATATIVE COVER IN ACCORDANCE WITH THE D. PRIOR TO TOPSOILING, THE SUBSOIL SHALL BE IN COMPLIANCE WITH THE STANDARD FOR LAND GRADING PG 19-1	B. MULCH NETTINGS - STAPLE PAPER, COTTON, OR PLASTIC NETTINGS OVER HAY OR STRAW MULCH. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED. NETTING IS USUALLY AVAILABLE IN ROLLS - FEET WIDE AND UP TO 300 FEET LONG.
STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS. SEE STANDARDS 11 THRU 42 IV. APPLYING TOPSOIL	C. MULCH ANCHORING TOOL — A TRACTOR—DRAWN IMPLEMENT ESPECIALLY DESIGNED TO PUNCH AND ANCHOR MULCH INTO THE SOIL SUBFACE. THIS PRACTICE AFFORDS MAXIMUM EROSION CONTROL, BITS USE IS LIMITED TO THOSE SLOPES UPON WHICH THE TRACTOR CAN OPERATE SAFELY. TOOL
A. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE, IE, LESS THAN FIELD CAPACITY (SEE GLOSSARY).	PENETRATION SHOULD BE DONE ABOUT 3 TO 4 INCHES. ON SLOPING LAND, THE OPERATION SHOUL BE DONE ON THE CONTOUR.
B. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) FIRMED IN PLACE IS REQUIRED. ALTERNATIVE DEPTHS MAY BE CONSIDERED WHERE SPECIAL REGULATORY &/OR INDUSTRY DESIGN	D. LIQUID MULCH-BINDERS
STANDARDS ARE APPROPIAT SUCH AS GOLF COURSE, SPORT FIELD, LANDFILLCAPPING, ETC SOILS WITH A PH OF 4	 APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS, AT CRESTS OF BANKS. PEMAINDER OF ARFA SHOULD BE INFORM IN APPEARANCE.
OR MORE, IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOIL (PG 1-1)	2. USE ONE OF THE FOLLOWING:
LEAST 80% OF THE SOILSTO BE STABILIZED WITH VEGATATION. FAILURE TO ACHIEVE THE MINIMUM COVERAGE MAY REQUIRE ADDITIONAL WORK TO BE PERFORMED BY THE CONTRACTORTO INCLUDE SOME OR ALL OF THE	A. ORGANIC AND VEEGATABLE BASED BINDERS, SEE PAGE 5.2 APPLY AT RATES SPEWCIFIED BY MANUFACTURER

SS IDAN FIELD CAFACITI (SEE GEOSSARI).	
A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) FIRMED IN PLACE IS REQUIRED. ALTERNATIVE DEPTHS MAY BE CONSIDERED WHERE SPECIAL REGULATORY &/OR INDUSTRY DESIGN	D. LIQUID MULCH-BINDERS
STANDARDS ARE APPROPIAT SUCH AS GOLF COURSE, SPORT FIELD, LANDFILLCAPPING, ETC SOILS WITH A PH OF 4	1. APPLICATIONS SHOULD BE HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS, AND
D MODE IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID RECONCIONO SOII (DC 1-1)	AT CRESTS OF BANKS. REMAINDER OF AREA SHOULD BE UNIFORM IN APPEARANCE.
י אטאב, א הטטטאטאיטב אווו ווב טומינטמיט וטי אחמימטבאבאו טו ווטו מטט וויטטטטואט טטוב (יטי ו)	2. USE ONE OF THE FOLLOWING:
LEAST 80% OF THE SOILSTO BE STABILIZED WITH VEGATATION, FAILURE TO ACHIEVE THE MINIMUM COVERAGE MAY REQUIRE ADDITIONAL WORK TO BE PERFORMED BY THE CONTRACTORTO INCLUDE SOME OR ALL OF THE	A. ORGANIC AND VEEGATABLE BASED BINDERS, SEE PAGE 5.2 APPLY AT RATES SPEWCIFIED BY MANUFACTURER
FOLOWING: SUPPLEMENTAL SEEDING, RE-APPLICATION OF LIME AND FERTILIZER, &/OR THE ADDITIONOF ORGANIC	B. SYNTHETIC OR ORGANIC BINDERS — BINDERS SUCH AS CURASOL, DCA-70, PETRO-SET, AND TERRA-TACK MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER TO ANCHOR
THOSE OFFERED BY RUTGERS COOPERATIVE EXTENSION SERVICE OR OTHER APPROVED LABORATORY FACILITIES OHALIFIED TO TEST SOIL SAMPLES FOR AGRONOMIC PROPERTIES	MULCH MATERIALS.
	NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT

NOTE: ALL NAMES GIVEN ABOVE ARE REGISTERED TRADE NAMES. THIS DOES NOT CONSTITUTE A RECOMMENDATION OF THESE PRODUCTS TO THE EXCLUSION OF OTHER PRODUCTS.

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MIX. HYDROSEEDING NOT RECOMMENDED.	WETTER CONDITIONS. SALTGRASS WILL ONLY PERSISTENT UNDER SALUE CONDITIONS.	MOIST SHADE.	FINE FESCUE LAWN	ATHLETIC FIELD/MIX 3 CULTIVARS. 0F KENTUCKY BLUEGRASS.	GENERAL LAWN/RECREATION.	USE IN A MANAGED FILTER STRIP FOR NUTRIENT UPTAKE.	FILTER STRIP USE FOR NUTRIENT UPTAKE.	BIRDSFOOT TREFOIL IS BEST ADAPTED TO ZONE 5.	NATIVE WET MIX.	USE FLATPEA TO SUPPRESS WOODY VEGETATION.	TALL FESCUE BEST SELECTED FOR DROUGHTY CONDITIONS. USE CREEPING RED FESCUE IN HEAVY SHADE.	USE REDTOP FOR INCREASED DROUGHT TOLERANCE.	SUITABLE WATERWAY MIX CANADA BLUEGRASS MORE DROUGHT TOLERANT.	GENERAL LOW MAINTENANCE MIXTURE.	AND TOXIC METALS PRESENT.	TOLERANCE, ZOYSIA HAS GREATER WEAR TOLERANCE.	BERMUDAGRASS HAS	NATIVE WARM- SEASON MIXTURE.		FLATPEA SUPPRESSES INVADING WOODY VEGETATION. PINELANDS MIXTURE.	USE FOR WATERWAYS. REDTOP PROVIDES QUICK COVER. BIRDSFOOT NOT ADAPTED TO ZONE 66, 7g. 7b.	USE DEETONGUE IF pH<4.0. SWITCHGRASS IS	SERECIA LESPEDEZA NOT ADAPTED TO ZONE 5.			REMARKS		
IRRIGATE THE SOIL IMMEDIATELY PRIOR TO LAYING THE SOD. B. PLACE SOD STRIPS WITH SNUG, EVEN JOINTS THAT ARE STAGGERED. OPEN SPACES INVITE EROSION.	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	REJILLED AND FIRMED AS ABOVE.	D. INSPECT SITE JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE	C. REMOVE FROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO SOIL CONTACT AND REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.	OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM FINE SEEDBED IS PREPARED.	B. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING	PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOILS SOUTH OF THE NEW BRUNSWICK — TRENTON LINE.	CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL 3 135 SANDY LOAM, LOAM, SILT LOAM 2 90 LOAMY SAND, SAND 1 45	TONS/ACRE LBS. /	SOIL ACIDITY & SUPPLY CALCIUM & MAGNESIUM TO GRASSES & LEGUMES. LIME APPLICATION RATE BY SOI LTEXTURE TABLE 6-1		WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE, INCORPORATE INTO SURFACE 4". IF FERTALIZER IS NOT INCORPORATED APPLY 1/2 THE RATE DESCRIBED ABOVE DURING SEED	A. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY RUTGERS. UNIVERSITY SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPUED AT THE RATE OF 500 POUNDS	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" (UNSETTLEDOIS REQUIRED AT ALL SITES. SEE THE STRNDARDS FOR TOPSOIL AND AMENDMENT REQUIREMENTS. I. SOIL PREPARATION	FERTILIZING, AND SOIL PREPARATION. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING.	A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR LIMING,	I. SITE PREPARATION	ONLY MOIST, FRESH, UNHEATED SOD SHOULD BE USED. SOD SHOULD BE HARVESTED, DELIVERED, AND INSTALLED MITHIN A PERIOD OF 36 HOURS.	 FOR DROUGHTY SITES, A SOD OF KENTUCKY 31 TALL FESCUE AND BLUEGRASS IS PREFERRED OVER A STRAIGHT BLUEGRASS SOD. 	4. SOD SHOULD BE VIGOROUS AND DENSE AND BE ABLE TO RETAIN ITS OWN SHAPE AND WEIGHT WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP FROM THE UPPER 10 PERCENT OF THE STRIP. BROKEN PADS OR TORN AND UNEVEN ENDS WILL NOT BE ACCEPTABLE.	3.	SOD SHOULD BE FREE OF WEEDS AND UNDESIRABLE COARSE WEEDEY GRASSES.	METHODS AND MATERIALS 1. CULTIVATED SOD IS PREFERRED OVER NATIVE OR PASTURE SOD. SPECIFY "CERTIFIED SOD," OR OTHER HIGH QUALITY CULTIVATED SOD.	WHERE APPLICABLE ON EXPOSED SOILS THAT HAVE A POTENTIAL FOR CAUSING OFF-SITE ENVIRONMENTAL DAMAGE WHERE A QUICK VEGETATIVE COVER IS DESIRED. MOISTURE IS REQUIRED FOR SUCCESS, ACCESS TO IRRIGATION IS ESSENTIAL.	PROVIDES IMMEDIATE, PERMANENT VEGATATIVE COVER TO THE SOIL FROM THE IMPACTS OF WIND OR RAIN AND PREVENTS SOIL AND NUTRIENT LOSSES TO STREAMS & OTHER STORMWATER CONVEYANCES FROM RUNOFF.	TO PERMANENTLY STABILIZE THE SOIL WITH AN IMMEDIATE AESTHETIC COVERING, THUS ASSURING CONSERVATION OF SOIL AND WATER, AND TO ENHANCE THE ENVIRONMENT. WATER QUALITY ENHANCEMENT	FOR PERMANENT STABILIZATION WITH SOD DEFINITION ESTABLISHING PERMANENT VEGETATION USING SOD.	

	LY FOLLOWING INSTALLATION, SOD SHOULD BE WATERED UNTIL MOISTURE PENETRATES THE SOIL NEATH SOD TO A DEPTH OF 4 INCHES. MAINTAIN OPTIMUM MOISTURE FOR AT LEAST TWO	STRIP OF HEAVY JUTE OR PLASTIC NETTING, PROPERLY SECURED, ALONG THE CROWN OF THE SE WILL PROVIDE EXTRA PROTECTION AGAINST LIFTING AND UNDERCUTTING OF SOD. THE SHOULD CAN BE USED TO ANCHOR SOD IN WATER—CARRYING CHANNELS AND OTHER CRITICAL WRE STAPLES MUST BE USED TO ANCHOR SOD IN WATER—CARRYING CHANNEL WORK.	NOLES (8 TO 10 INCHES LOUG BY 3/4 INCH WIDE). WATER CANNOT ALWAYS BE DIVERTED FROM FLOWING OVER THE FACE OF THE SLOPE. BUT A	FACE. DO NOT OVERLAP SOD. ALL JOINTS SHOULD BE BUTTED TIGHTLY IN ORDER TO PREVENT HICH WOULD CAUSE DRYING OF THE ROOTS. TO ORDATED THAN 1 TO 1 OFFILIES SOD TO STIDEFACE SON WITH WOOD DECK WEBS STADIES OF	D SIRIPS WIH SNUG, EVEN JOINIS HAI ARE SIAGGERED. OPEN SPACES INVITE EROSION. TAMP SOD IMMEDIATELY FOLLOWING PLACEMENT TO INSURE SOLID CONTACT OF ROOT MAT AND	₩~	AND FIRMED AS ABOVE. NT S SHOULD BE LAID ON THE CONTOUR. NEVER UP AND DOWN THE SLOPE. STARTING AT THE	TROM THE SURFACE ALL OBJECTS THAT WOULD PREVENT GOOD SOD TO SOIL CONTACT AND ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, PROTHER UNSUITABLE MATERIAL. SITE JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED. THE ARRA MUST BE	E AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING N SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM DIED IS PREPARED.	D DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOILS SOUTH OF THE NSWICK — TRENTON LINE.	NY LOAM, AND HIGH ORGANIC SOIL 3 135 NAM, LOAM, SILT LOAM 2 90 ND, SAND 1 45	URE TONS/ACRE LBS. / 1,000 SQ. FT.	LIME APPLICATION RATE BY SOI LTEXTURE TABLE 6-1	MESTONE A RATE OF 21/AC UNLESS SOIL TESTING INDICATES OTHERWISE. CALCIUM CARBONATE UIVALENT AND STANDAED FOR THE MEASSIRING ABILITY OF LIMINGMATERIALS TO NEUTRALIZE DITY & SUPPLY CALCIUM & MACNESIUM TO GRASSES & LEGUMES.	A WHERE TIMING IS ORTICAL, FERTILIZER MAY BE APPUED AT THE RATE. OF 500 POUNDS (WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICARTES OTHERWISE, INCORPORATE NITO 4". IF FERTALIZER IS NOT INCORPORATED APPLY 1/2 THE RATE DESCRIBED ABOVE DURING SEEDBED 4". IF FERTALIZER IS NOT INCORPORATED APPLY 1/2 THE RATE DESCRIBED ABOVE DURING SEEDBED TION AND REPEAT ANOTHER 1/2 RATE APPLICATION WITHIN 3 T 5 WEFKS AFTER SEFDING.	TWESTURE AND FERTILIZER ACCORDING TO SOIL TESTS SOUT AS TROSE OFFERED BY ROTOGEL TO STATE LABORATORY. SOIL SAMPLE MALEERS ARE AVAILABLE FROM THE LOCAL TO STATE OF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE	SHOULD BE HANDLED ONLY WHEN IT IS DRY ENQUGH TO WORK WITHOUT DAMAGING THE SOIL RE. A UNIFORM APPLICATION TO A DEPTH OF 6" (UNSETTLEDOIS REQUIRED AT ALL SITES. SEE NDARDS FOR TOPSOIL AND AMENDMENT REQUIREMENTS. **TONIT AND FEBRUATE ACCORDING TO SOIL TESTS STICKLASS THOSE OFFICED BY BUTGERS.	
NOTE: FOR MORE SPECIFIC DATA ON CERTAIN TREE CHARACTERISTICS, CONSULT THE TREE SCHRUB AND VINE STANDARD IN THIS HANDBOOK (PG. 3.8.1) OR CONSULT LOCAL PROFESSIONAL EXPERTS. YOUR LOCAL SOIL CONSERVATION DISTRICT OR COUNTY AGRICULTURAL AGENT CAN ASSIST YOU IN THIS.	(6) TREE LIMB REMOVAL, WHERE NECESSARY, WILL NOT BE FLUSH TO TRUNK OR MAIN BRANCH AND THAT AREA PAINTED WITH A GOOD GRADE OF TREE PAINT. SEE FIGURE 9.1 , 9.2	(5) <u>DAMAGED TRUNKS OR EXPOSED ROOTS</u> WILL BE PAINTED IMMEDIATELY WITH A GOOD GRADE OF "TREE PAINT." CARE FOR SERIOUS INJURY SHOULD BE PRESCRIBED BY A PROFESSIONAL FORESTER OR LISCENSED TREE EXPERT.	(4) FEEDER ROOTS SHOULD NOT BE CUT IN THE AREA INSIDE THE DRIP LINE OF THE TREE BRANCHES.	(3) BOARDS WILL NOT BE NAILED TO TREES DURING BUILDING OPERATIONS.	(2) BOX TREES WITHIN 25 FEET OF A BUILDING SITE TO PREVENT MECHANICAL INJURY. FENCING OR OTHER BARRIER SHOULD BE INSTALLED AT THR DRIP LINE OF THE TREE BRANCHES. SEE FIGURE	B. CRITERIA FOR PROTECTING REMAINING TREES: (1) MECHANICAL DAMAGE — SEE FIGURE 9.3.	FAVOR TREES WHOSE LIFE SPAN IS LONG, SUCH AS OAK, BEECH, AND TULLP POPLAR. SHORT-LIVED TREES SHOULD BE AVOIDED FOR USE SHADE, LAWN, OR SPECIMEN TREES. ALTHOUGH SOME SHORT-LIVED TREES HAVE AN ATTRACTIVE FORM OR PLEASING COLORATION IN THE SPRING OR FALL, SUCH TREES MAY NOT LIVE FOR A LONG TIME. SEE PAGE 9-2,9-3	INCE SPECIES WARY GREATLY IN THIS RESPECT. SYMPTOMS WARY FROM BROWNING ON THE EDGES OF THE LEAVES AND NEEDLES, TO STUNTING OF GROWTH, TO DEATH OF THE TREE. SEE PAGE 9—2 (9) SPECIES LONGENTY	, £2m		(0) SPRING AND ACIDMAN COLORATION SPECIES DIFFER IN FALL COLOR. SOME ARE BRIGHT RED, OTHERS ORANGE AND YELLOW. OTHER SPECIES EXHIBIT NO AUTUMN COLOR, SUCH AS WALNUT, LOCUST, AND SYCAMORE.		CHOOSE TREES THAT ARE AESTHETICALLY PLEASING, EXHIBITING GOOD SHAPE AND FORM. AVOID LEANING, CROOKED, AND MISSHAPEN TREES. OCCASIONALLY, AN ODD-SHAPED TREE OR ONE OF	(5) TREE AESTHETICS	AVOID LEAVING TREES IN HIGHLY VISIBLE AREAS OR SPECIMENS THAT ARE FREQUENT TARGETS OF INSECTS AND DISEASES. AMERICAN ELM, FOR EXAMPLE, COULD BE LOST DUE TO DUTCH ELM DISEASE. MILD CHERRY, ANOTHER EXAMPLE, IS A FAVORITE. HOST OF THE TENT CATERPILLAR, WHICH CALIESES DEFON AT ON OF THE TENT FOREY SIMMER SEE PAGE 6-2	(4) RESISTANT TO INSECTS AND DISEASES	MANY SPECIES OF TREES FOUND IN NEW JERSEY WOODLANDS ARE NOT SUITABLE FOR SHADE TREE USES AROUND BUILDINGS. AVOID PROTECTING TREES THAT ARE SHORT-LIVED, BRITILE, HAVE SOFT WOOD, MESSY LEAVES, FRUIT, OR ARE FREQUENLY ATTACKED BY INSECTS AND DISEASE. TREE ROOT SYSTEMS WHICH DO NOT ADAPT WELL TO CUTS & FILLS MAY NOT BE A SUITABLE ALTERNATIVE. THE FOLLOWING ARE SEVERELY AFFECTED BY COMPACTED CONSTRUCTION FILL:	

TO PROTECT EXPOSED SOIL SURFACES FROM EROSION DAMAGE AND TO REDUCE OFFSITE ENVIRONMENTAL DAMAGE WHERE APPLICABLE THIS PRACTICE IS APPLICABLE TO AREAS SUBJECT TO EROSION, WHERE THE SEASON AND OTHER CONDITIONS MAY NOT BE SUITABLE FOR GROWING AN EROSION-RESISTANT COVER OR WHERE STABILIZATION IS NEEDED FOR A SHORT PERIOD UNTIL MORE SUITABLE PROTECTON CAN BE APPLIED. METHODS AND MATERIALS I. SITE PREPARATION A. GRADE, AS NEEDED AND FEASIBLE, TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR APPLYING AND ANCHORING MULCH. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING.	DEFINITION STABILIZING EXPOSED SOILS WITH NON-VEGETATIVE MATERIALS.	STABILIZATION WITH MULCH ONLY
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	D. EMPLOT NELDED ENGINE NOMINGLE FRACTICES SOCIETAS DIVERSIONS, GRADE STADILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS. SEE STANDARDS 11 THROUGH 42.	
=	. PROTECTIVE MATERIALS A. UNROTTED SMALL-GRAIN STRAW, HAY, OR SALT HAY AT 2.0 TO 2.5 TONS PER ACRE IS SPREAD UNIFORMLY AT 90 TO 115 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULICH ANCHORING TOOL, LIQUID MULICH BINDERS, OR NETTING TEDOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.	
	B. ASPHALT EMULSION OR CUTBACK ASPHALT IS NOT ALLOWED	
유	C. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED —— UNDER STABLE CONDITIONS AND IN SUFFICIENT QUANTITIES AS RECOMMENDED BY MANUFACTURER.	
	D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER OR HYDROMULCHER.	
	E. MULCH NETTING, SUCH AS PAPER JUTE, EXCELSIOR, COTTON, OR PLASTIC, MAY BE USED.	
	F. WOODCHIPS APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 2 INCHES MAY BE USED. WOODCHIPS WILL NOT BE USED ON AREAS WHERE FLOWING WATER COULD WASH THEM INTO AN INLET AND PLUG IT.	
RING	G. GRAVEL, CRUSHED STONE, OR SLAG AT THE RATE OF 9 CUBIC YARDS PER 1,000 SQ. FT. APPLIED UNIFORMLY TO A MINIMUM DEPTH OF 3 INCHES MAY BE USED. SIZE 2 OR 3 (ASTM C-33) IS RECOMMENDED.	

HEAVIER AT EDGES WHERE WIND CATCHES THE MULCH, IN VALLEYS, AND FAMINDER OF ARRA SHOULD BE LINIFORM IN APPEARANCE.	E ABOUL 3 TO 4 INCHES. ON SCOPING LAND, THE OPERATION SHOULD	TRACTOR-DRAWN IMPLEMENT ESPECIALLY DESIGNED TO PUNCH AND SURFACE. THIS PRACTICE AFFORDS MAXIMUM EROSION CONTROL, BUT SLOPES UPON WHICH THE TRACTOR CAN OPERATE SAFELY, TOOL	PER, COTTON, OR PLASTIC NETTINGS OVER HAY OR STRAW MULCH. N AREAS TO BE MOWED. NETTING IS USUALLY AVAILABLE IN ROLLS 4 ET LONG.	10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING DIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS CURE TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.	
ADDRESS: HUDSON CO	LOCAL COUNTY SOIL C				

DRESS:	DRESS: HUDSON COUNTY SOIL CONSERVATION DISTRICT
DRESS:	: HUDSON COUNTY SOIL CONSERVATION DIST 80 ORCHARD STREET BLOOMFIELD, N.J. 07003
ONE:	(862) 333-4505

DATE BY							
	N.J. LIC. PROFESSIONAL ENGINEER – GE27632	DOTICI AS C DATE SIGNED	DEC 28, 2021		Phone 6091865, 1596 Email: dopelikan@verizon.net	CIVIL & ARCHITECTURAL ENGINEERING 1701 Pennington Rd. — Ewing, NJ 08618	DOUGLAS C. PELIKAN,PE
	DRAWN BY: PROJECT	SCALE: $1" = 20'$	HUDSON COUNTY	LOT 5		5 ST(SOIL

BERMUDAGRASS
MIDLAND
MIDRON
REED CANARYGRASS
LOREED
SWITCHGRASS
BLACKWELL
PERNIAL RYEGRAS
REPEL
PENNANT
OR OTHER IMPROVED
CULTIVARS

COMMENDED CUL
KENTUKY BLUER
KENBLUE
PARK
ARBORETUM
TOUCHDOWN
AMERICA
BARON
CROWNVETCH
PENNGIFT
CHEMUNG
BIRDSFOOT TREE
VIKING
EMPIRE

CHEWING'S FESCUE
BANNER
JAMESTOWN

TALL FESCUE
KENTUCKY-31
REBEL
FALCON
SPREADING FESCUE
FOR TRESS
ENSTIVA
HARD FESCUE
SPARTON
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