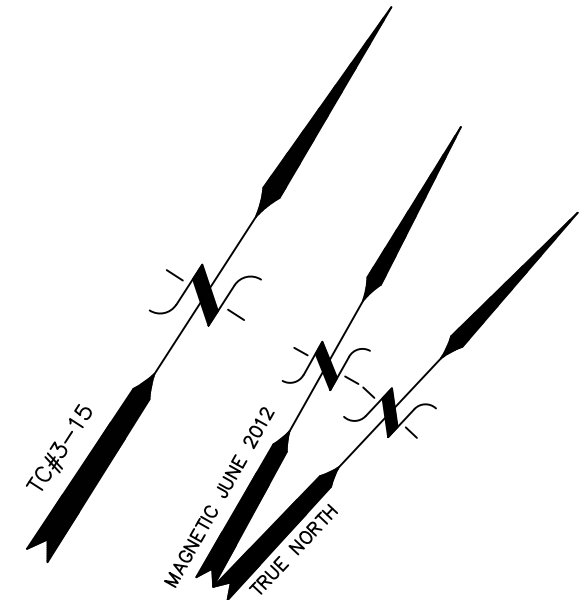
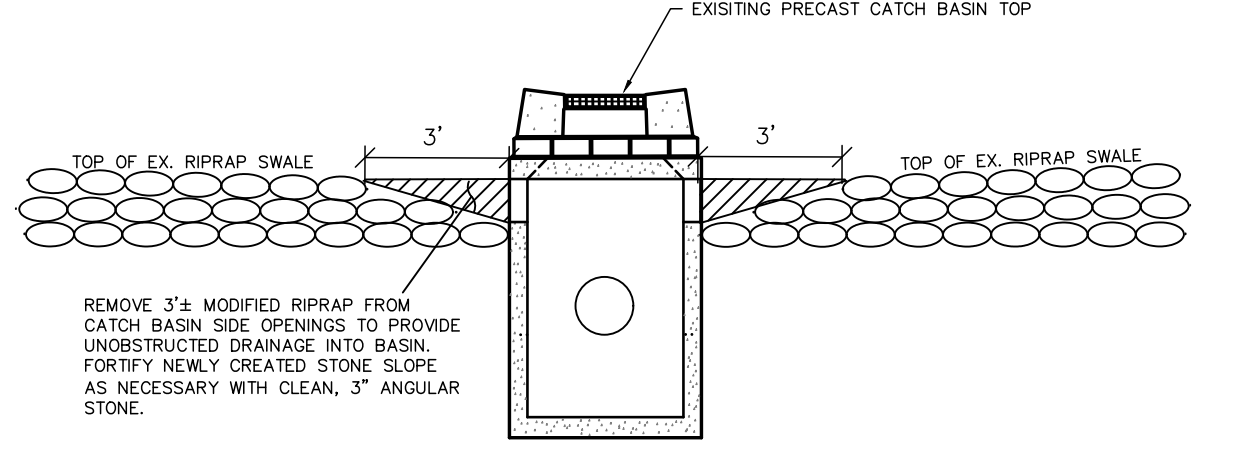
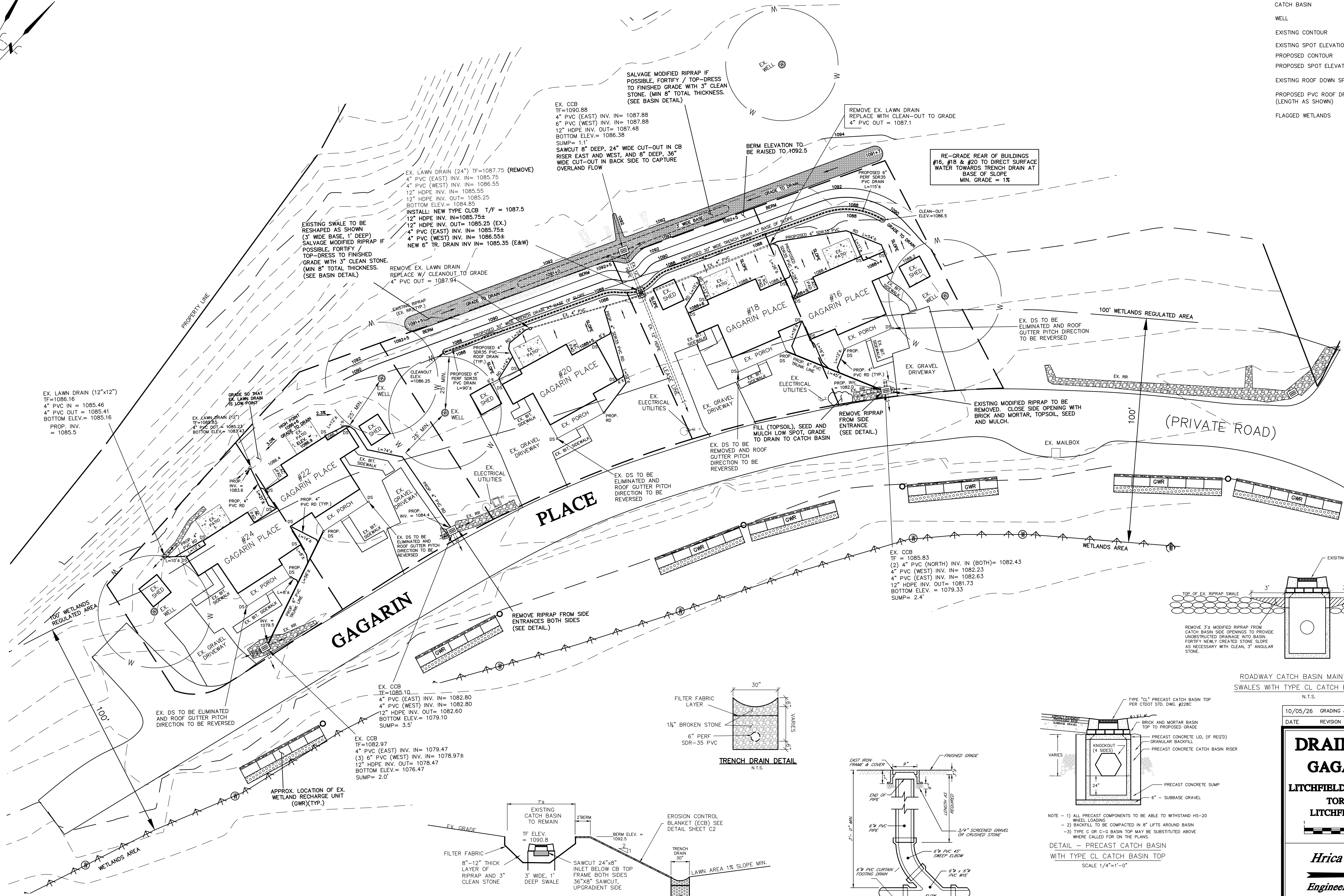
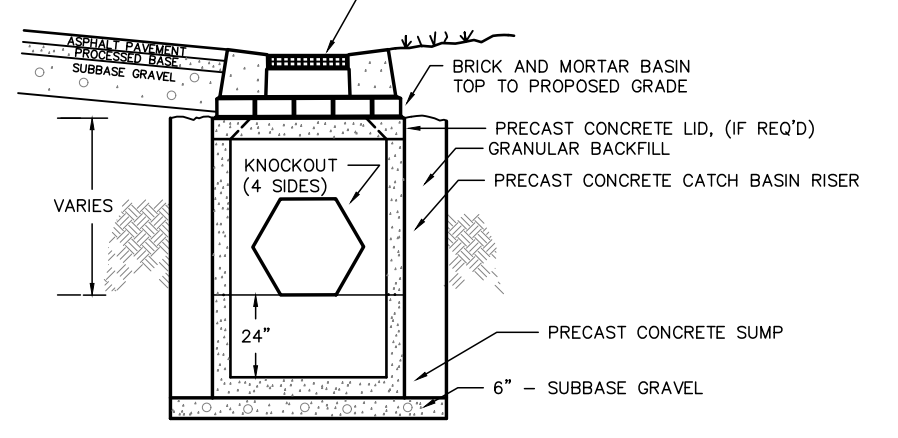




LEGEND	
PROPERTY LINE	---
LEASE LINE	---
EXISTING IRON PIN OR PIPE	○
CATCH BASIN	⊞
WELL	⊙
EXISTING CONTOUR	--- 310 ---
EXISTING SPOT ELEVATION	311.5
PROPOSED CONTOUR	--- 310 ---
PROPOSED SPOT ELEVATION	311+5
EXISTING ROOF DOWN SPOUT	⬇
PROPOSED PVC ROOF DRAIN (LENGTH AS SHOWN)	--- PVC RD L=X'± ---
FLAGGED WETLANDS	--- 100' ---

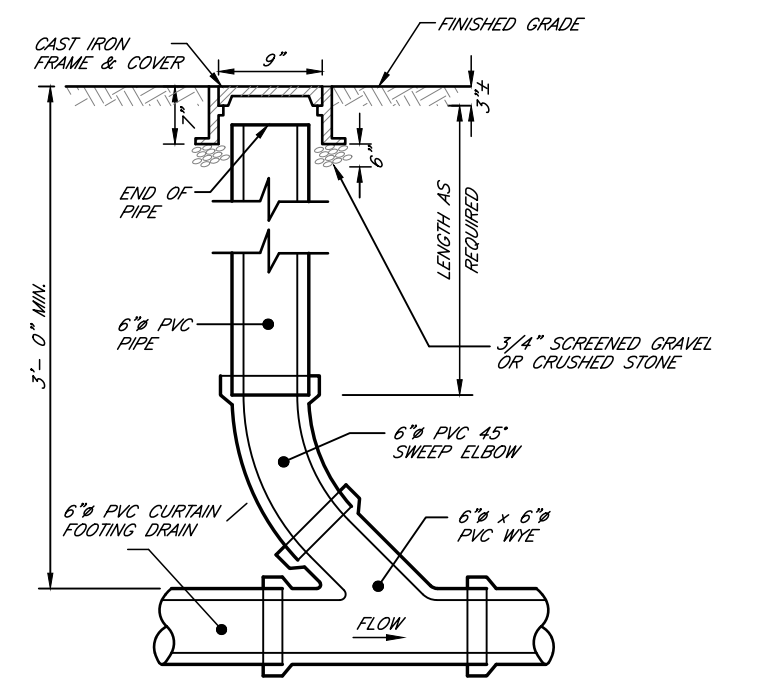


ROADWAY CATCH BASIN MAINTENANCE
SWALES WITH TYPE CL CATCH BASIN TOP
N.T.S.

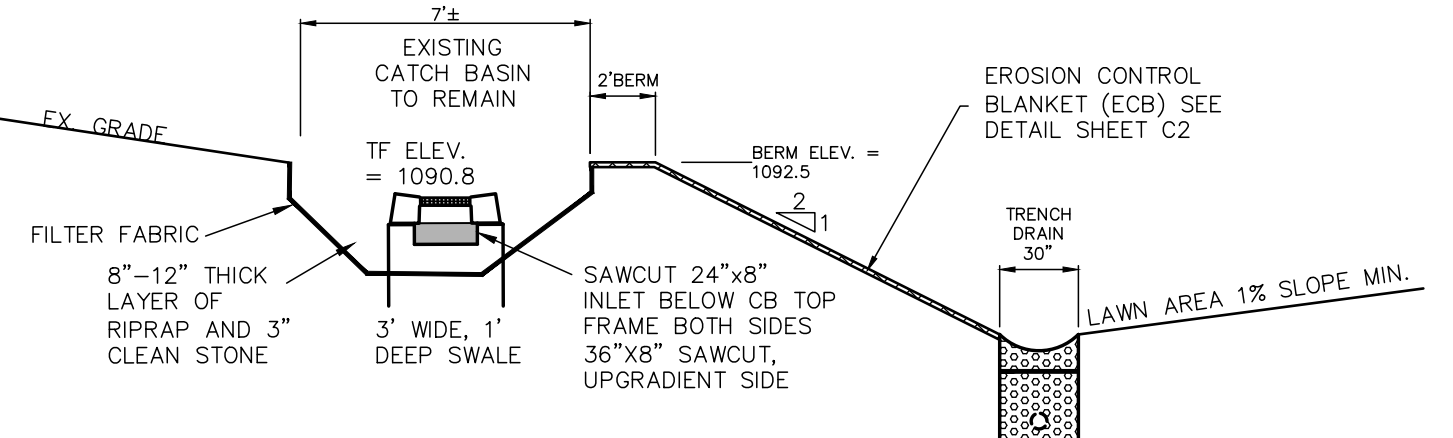


NOTE - 1) ALL PRECAST COMPONENTS TO BE ABLE TO WITHSTAND HS-20 WHEEL LOADING.
- 2) BACKFILL TO BE COMPACTED IN 8" LIFTS AROUND BASIN.
- 3) TYPE C OR C-G BASIN TOP MAY BE SUBSTITUTED ABOVE WHERE CALLED FOR ON THE PLANS.

DETAIL - PRECAST CATCH BASIN
WITH TYPE CL CATCH BASIN TOP
SCALE 1/4"=1'-0"

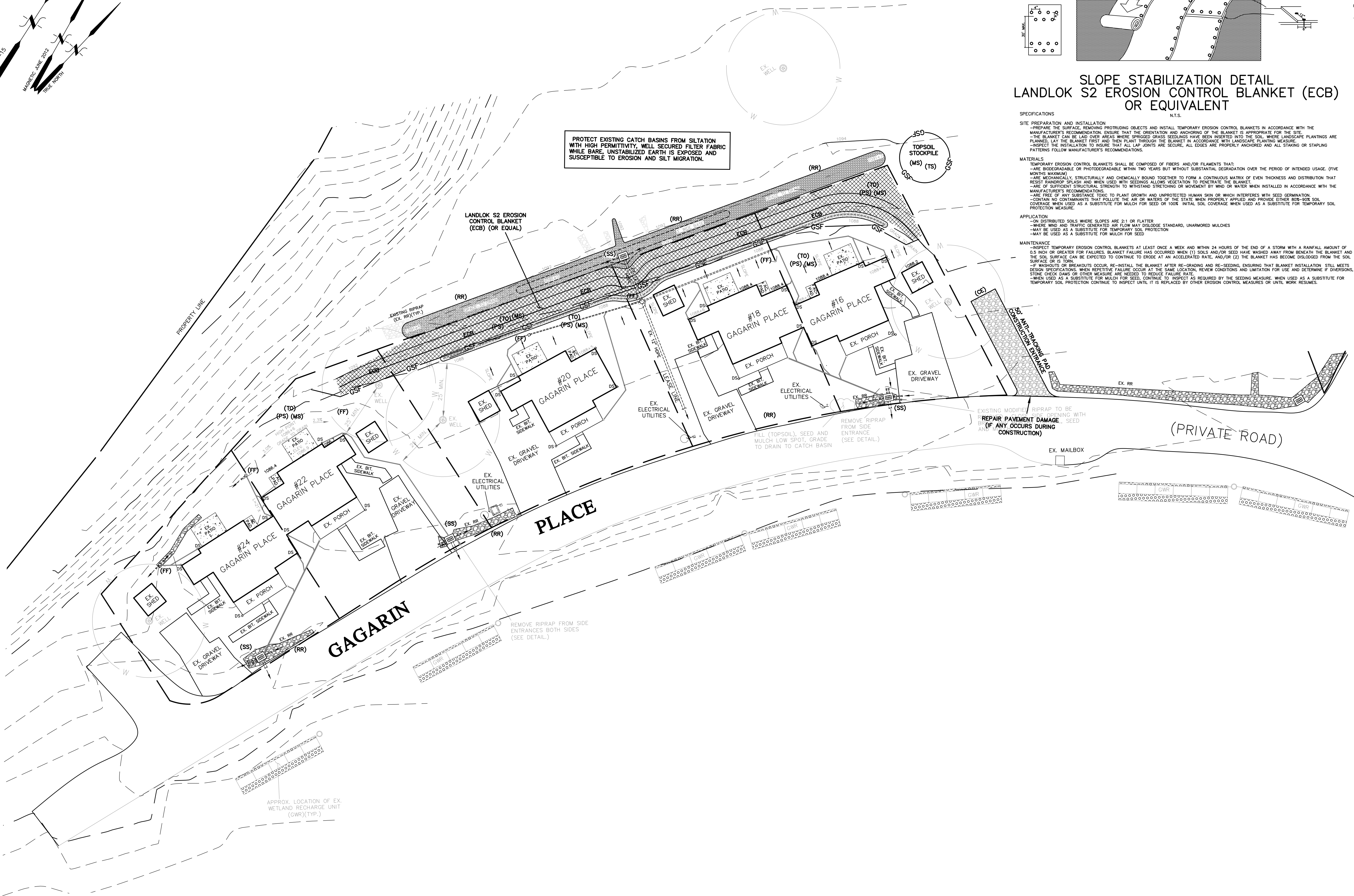
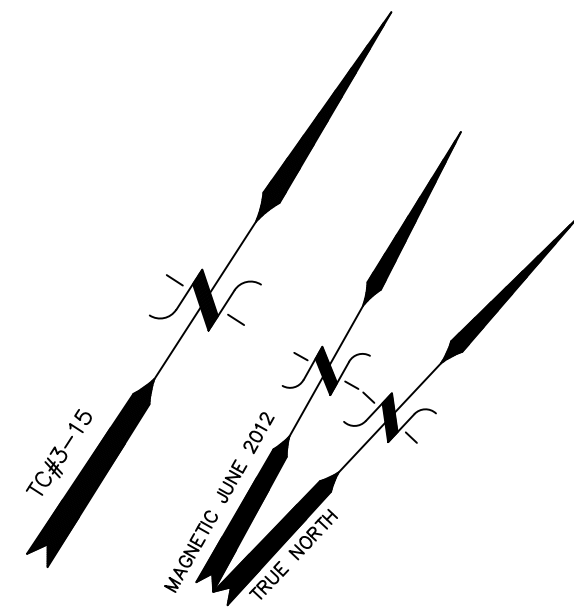


CURTAIN / FOOTING DRAIN CLEANOUT DETAIL
N.T.S.



NOTE: EXISTING TRENCH DRAIN UNDER SWALE TO REMAIN UNDISTURBED
SWALE SECTION
N.T.S.

10/05/26 GRADING & TRENCH DRAIN, ADD CB	
DATE	REVISION
DRAINAGE PLAN	
GAGARIN PLACE	
LITCHFIELD HOUSING TRUST, INC.	
TORRINGTON ROAD	
LITCHFIELD, CONNECTICUT	
1"=20' 0 1 2 INCHES	
Hrica Associates LLC	
Engineers	Surveyors
Kenneth S. Hrica, P.E., R.L.S. 44 Maple View Trail P.O. Box 1981 Litchfield, Connecticut 06759	860-567-2112 (business) 860-567-0491 (tocsmlie) e-mail: hricassociates@optonline.net
DATE: 09/08/2026	MAP #: 0365
SCALE: 1"=20 ft.	SHEET #: C1 OF 3
DRAWING: 110365	DRAWN BY: TJS
PROJECT #: 11-0365	CHECKED BY: KSH



SLOPE STABILIZATION DETAIL LANDLOK S2 EROSION CONTROL BLANKET (ECB) OR EQUIVALENT

SPECIFICATIONS
N.T.S.

SITE PREPARATION AND INSTALLATION
-PREPARE THE SURFACE REMOVING PROTRUDING OBJECTS AND INSTALL TEMPORARY EROSION CONTROL BLANKETS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. ENSURE THAT THE ORIENTATION AND ANCHORING OF THE BLANKET IS APPROPRIATE FOR THE SITE.
-THE BLANKET CAN BE LAID OVER AREAS WHERE SPRIGGED GRASS SEEDLINGS HAVE BEEN INSERTED INTO THE SOIL, WHERE LANDSCAPE PLANTINGS ARE PLANNED. LAY THE BLANKET FIRST AND THEN PLANT THROUGH THE BLANKET IN ACCORDANCE WITH LANDSCAPE PLANTING MEASURE.
-INSPECT THE INSTALLATION TO INSURE THAT ALL LAP JOINTS ARE SECURE. ALL EDGES ARE PROPERLY ANCHORED AND ALL STAKING OR STAPLING PATTERNING FOLLOW MANUFACTURER'S RECOMMENDATIONS.

MATERIALS
TEMPORARY EROSION CONTROL BLANKETS SHALL BE COMPOSED OF FIBERS AND/OR FILAMENTS THAT:
-ARE BIODEGRADABLE OR PHOTODEGRADABLE WITHIN TWO YEARS BUT WITHOUT SUBSTANTIAL DEGRADATION OVER THE PERIOD OF INTENDED USAGE. (FIVE MONTHS MAXIMUM)
-ARE MECHANICALLY, STRUCTURALLY AND CHEMICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX OF EVEN THICKNESS AND DISTRIBUTION THAT RESIST RAINFALL SPLASH AND WHEN USED WITH SEEDINGS ALLOWS VEGETATION TO PENETRATE THE BLANKET.
-ARE OF SUFFICIENT STRUCTURAL STRENGTH TO WITHSTAND STRETCHING OR MOVEMENT BY WIND OR WATER WHEN INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
-ARE FREE OF ANY SUBSTANCE TOXIC TO PLANT GROWTH AND UNPROTECTED HUMAN SKIN OR WHICH INTERFERES WITH SEED GERMINATION.
-CONTAIN NO CONTAMINANTS THAT POLLUTE THE AIR OR WATERS OF THE STATE WHEN PROPERLY APPLIED AND PROVIDE EITHER 80%-90% SOIL COVERAGE WHEN USED AS A SUBSTITUTE FOR MULCH FOR SEED OR 100% INITIAL SOIL COVERAGE WHEN USED AS A SUBSTITUTE FOR TEMPORARY SOIL PROTECTION MEASURE.

APPLICATION
-ON DISTRIBUTED SOILS WHERE SLOPES ARE 2:1 OR FLATTER
-WHERE WIND AND TRAFFIC GENERATED AIR FLOW MAY DISLODGE STANDARD, UNARMED MULCHES
-MAY BE USED AS A SUBSTITUTE FOR TEMPORARY SOIL PROTECTION
-MAY BE USED AS A SUBSTITUTE FOR MULCH FOR SEED

MAINTENANCE
-INSPECT TEMPORARY EROSION CONTROL BLANKETS AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER FOR FAILURES. BLANKET FAILURE HAS OCCURRED WHEN (1) SOILS AND/OR SEED HAVE WASHED AWAY FROM BENEATH THE BLANKET AND THE SOIL SURFACE CAN BE EXPECTED TO CONTINUE TO ERODE AT AN ACCELERATED RATE, AND/OR (2) THE BLANKET HAS BECOME DISLODGED FROM THE SOIL SURFACE OR IS TORN.
-IF WASHOUTS OR BREAKOUTS OCCUR, RE-INSTALL THE BLANKET AFTER RE-GRADING AND RE-SEEDING, ENSURING THAT BLANKET INSTALLATION STILL MEETS DESIGN SPECIFICATIONS. WHEN REPETITIVE FAILURE OCCUR AT THE SAME LOCATION, REVIEW CONDITIONS AND LIMITATION FOR USE AND DETERMINE IF DIVERSION, STONE CHECK DAMS OR OTHER MEASURE ARE NEEDED TO REDUCE FAILURE RATE.
-WHEN USED AS A SUBSTITUTE FOR MULCH FOR SEED, CONTINUE TO INSPECT AS REQUIRED BY THE SEEDING MEASURE. WHEN USED AS A SUBSTITUTE FOR TEMPORARY SOIL PROTECTION CONTINUE TO INSPECT UNTIL IT IS REPLACED BY OTHER EROSION CONTROL MEASURES OR UNTIL WORK RESUMES.

LEGEND	
PROPERTY LINE	---
LEASE LINE	---
EXISTING IRON PIN OR PIPE	○
CATCH BASIN	⊞
WELL	⊙
EXISTING CONTOUR	--- 310 ---
EXISTING SPOT ELEVATION	311.5
PROPOSED CONTOUR	--- 310 ---
PROPOSED SPOT ELEVATION	311+5
EXISTING ROOF DOWN SPOUT	⊙
PROPOSED PVC ROOF DRAIN (LENGTH AS SHOWN)	PVC RD L=X±
EROSION CONTROL BLANKET	▨

SOIL EROSION AND SEDIMENT CONTROL MEASURES	
(RR)	3" STONE RIP RAP
(TO)	TOP SOILING
(TS)	TEMPORARY SEEDING
(PS)	PERMANENT SEEDING
(MS)	MULCH FOR SEED
(ECB)	EROSION CONTROL BLANKET (SEE DETAIL)
(CE)	CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET C3)

REFER TO: 2024 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL DEP BULLETIN 34 FOR PROPER USAGE, INSTALLATION AND MAINTENANCE GUIDELINES.

10/05/26	GRADING & TRENCH DRAIN, ADD CB
DATE	REVISION

EROSION & SEDIMENT CONTROL PLAN

GAGARIN PLACE

LITCHFIELD HOUSING TRUST, INC.
TORRINGTON ROAD
LITCHFIELD, CONNECTICUT

1"=20' ft.
0 1 2
INCHES

Hrica Associates LLC

Engineers
Kenneth S. Hrica, PE, RLS
44 Maple View Trail
P.O. Box 1981
Litchfield, Connecticut 06759

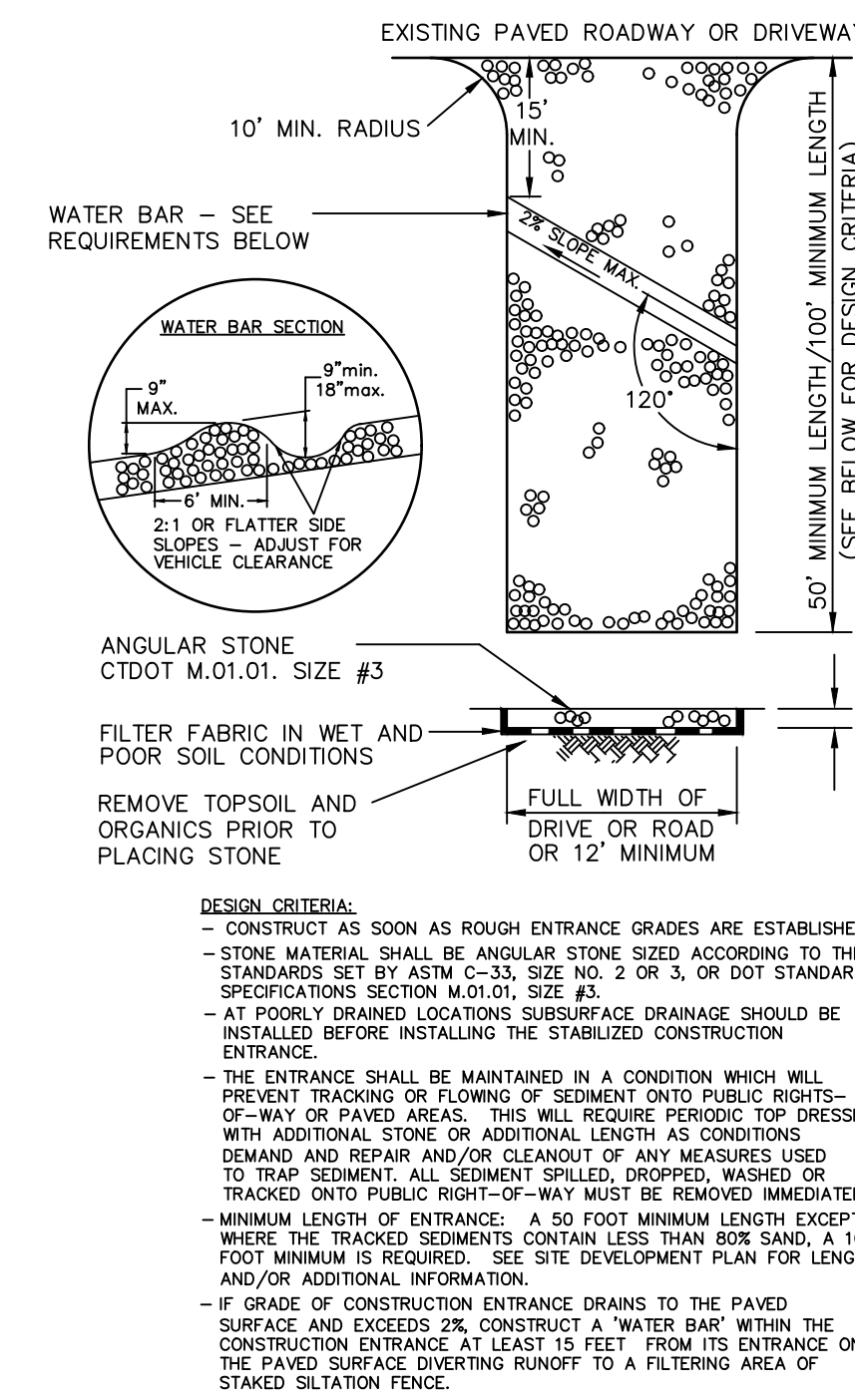
Surveyors
860-567-2112 (business)
860-567-0491 (tocsmile)
e-mail: hricassociates@optonline.net

DATE:	09/08/2026	MAP #:	0365
SCALE:	1"=20 ft.	SHEET #:	C2 OF 3
DRAWING:	110365	DRAWN BY:	TJS
PROJECT #:	11-0365	CHECKED BY:	KSH

(TO) TOPSOILING

- MATERIALS
- SITE INVESTIGATIONS SHALL BE MADE TO DETERMINE IF THERE IS SUFFICIENT TOPSOIL OF GOOD QUALITY TO JUSTIFY STRIPPING. HIGH QUALITY TOPSOIL SHALL BE FRABLE AND LOAMY (LOAM, SANDY LOAM, SILT LOAM, SANDY CLAY LOAM, CLAY LOAM). OTHER SOIL TYPES WITH HIGH ORGANIC CONTENT MAY BE FOUND SUITABLE AFTER TESTING. IT SHALL BE FREE OF DEBRIS, TRASH, STUMPS, ROCKS, ROOTS, AND NOXIOUS WEEDS. IT SHALL GIVE EVIDENCE OF BEING ABLE TO SUPPORT HEALTHY VEGETATION. IT SHALL CONTAIN NO SUBSTANCE THAT IS POTENTIALLY TOXIC TO PLANT GROWTH.
- ALL TOPSOIL SHALL BE TESTED BY A RECOGNIZED LABORATORY FOR THE FOLLOWING AND SHALL MEET THE REQUIREMENTS GIVEN:
- CONTAINING NOT LESS THAN 6% AND NOT MORE THAN 20% ORGANIC MATTER AS DETERMINED BY LOSS-ON-IGNITION OF OVEN DRIED SAMPLES DRIED AT 105 DEGREES CENTIGRADE.
- pH RANGE SHALL BE 6.0-7.5. IF pH IS LESS THAN 6.0, LIME SHALL BE ADDED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE VEGETATIVE ESTABLISHMENT PRACTICE BEING USED.
- SOLUBLE SALTS SHALL NOT EXCEED 500 PPM.
- IF ADDITIONAL OFF-SITE TOPSOIL IS NEEDED, IT MUST MEET THE STANDARDS STATED ABOVE.

- STRIPPING SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. A 4 TO 6 INCH STRIPPING DEPTH IS COMMON, BUT DEPTH MAY VARY DEPENDING ON THE PARTICULAR SOIL. IF PERMITTER DINKS, BASINS, AND OTHER SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO STRIPPING.
- STOCKPILES SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL DRAINAGE IS NOT OBSTRUCTED AND NO OFF-SITE SEDIMENT DAMAGE SHALL REPAIR. STOCKPILES SHALL BE LOCATED AWAY FROM ALL CONSTRUCTION ACTIVITIES.
- SIDE SLOPES
- THE SIDE SLOPES OF ALL STOCKPILES SHALL NOT EXCEED 2 TO 1
- SEDIMENT BARRIER
- A SEDIMENT BARRIER OF GEOSYNTHETIC SILT FENCE SHALL SURROUND ALL TOPSOIL STOCKPILES.
- TEMPORARY SEEDING
- TEMPORARY SEEDING OF STOCKPILES SHALL BE COMPLETED WITHIN 30 DAYS OF THE FORMATION OF THE STOCKPILE, IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE COVER MEASURE.
- SITE PREPARATION
- BEFORE TOPSOILING, ESTABLISH NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURE WATERWAYS, SILT FENCE AND SEDIMENT BASINS. THESE MEASURES MUST BE MAINTAINED DURING TOPSOILING.
- GRADING
- PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE APPROVED PLAN.
- LIMBING
- WHERE THE PH OF THE SUBSOIL IS 6.0 OR LESS, GROUND AGRICULTURAL LIMESTONE SHALL BE SPREAD IN ACCORDANCE WITH THE SOIL TEST OR THE VEGETATIVE ESTABLISHMENT PRACTICE BEING USED.
- BONDING
- AFTER THE AREA TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSEENED BY DISCING SCARIFYING OR TRACKING TO A DEPTH OF AT LEAST 4 INCHES TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.
- APPLYING TOPSOIL
- TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY WET, OR IN CONDITION THAT MAY BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING. THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED TO A MINIMUM COMPACTED DEPTH OF 4 INCHES. ANY IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOILING OR OTHER OPERATIONS SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS. IT IS NECESSARY TO COMPACT THE TOPSOIL ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL AND TO OBTAIN A UNIFORM FIRM SUBGRADE FOR THE ESTABLISHMENT OF TURF.
- HOWEVER, UNDOE COMPACTION IS TO BE AVOIDED AS IT INCREASES RUNOFF VELOCITY AND VOLUME, AND PREVENTS SEED GERMINATION.
- TOPSOIL AND HERBICIDES
- PERMANENT SEEDINGS OR SOD WILL NOT BE ESTABLISHED IN TOPSOIL THAT HAS BEEN TREATED WITH HERBICIDES. TOPSOIL SHALL BE GRASS GROWTH. TOPSOIL, SOD TREATED WILL BE STOCKPILED FOR ONE YEAR TO ALLOW BREAKDOWN OF HERBICIDE RESIDUES OR TOPSOIL WILL BE COMBINED WITH 6 INCHES OF UNTREATED TOPSOIL TO SERVE AS A SEEDBED.



(PS) PERMANENT SEEDING

TIMING

SEED WITH A PERMANENT SEED MIXTURE WITHIN 7 DAYS AFTER ESTABLISHING FINAL GRADES OR WHEN GRADING WORK WITHIN A DISTURBED AREA IS TO BE SUSPENDED FOR A PERIOD OF MORE THAN 1 YEAR. SEEDING IS RECOMMENDED FROM APRIL 1 THROUGH JUNE 15 AND AUGUST 15 THROUGH OCTOBER 1.

FOR THE COASTAL TOWNS AND IN THE CONNECTICUT RIVER VALLEY FINAL PLANT SEEDING DATES CAN BE EXTENDED AN ADDITIONAL 15 DAYS. AN AREAS AND PLAYGROUNDS OR DRIVING AND ARCHERY RANGES, NATURE TRAILS CAMPING AND PARKING, NATURE TRAILS (SHADED) 19,21, OR 23

- A. SITE PREPARATION
- GRADE IN ACCORDANCE WITH THE SITE GRADING PLAN. INSTALL ALL SURFACE WATER CONTROLS. FOR AREAS TO BE MOWED REMOVE ALL STONES 2 INCHES OR LARGER. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLOUDS, LUMPS OR OTHER UNSUITABLE MATERIAL.
- NOTE:
- ON AREAS WHERE WOOD CHIPS AND/OR BARK MULCH WAS PREVIOUSLY APPLIED, EITHER REMOVE THE MULCH OR INCORPORATE IT INTO THE SOIL WITH A NITROGEN FERTILIZER. ADDED NITROGEN APPLICATION RATE IS DETERMINED BY SOIL TEST AT TIME OF SEEDING. ANTICIPATE 120lb NITROGEN PER TON OF WOOD CHIPS AND/OR BARK MULCH.
- DO NOT USE PERMANENT SEEDING ON SLOPES STEEPER THAN 2 TO 1.
- B. SEEDBED PREPARATION
- APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TESTS SUCH AS THOSE OFFERED BY THE UNIVERSITY OF CONNECTICUT SOIL TESTING LABORATORY. SOIL SAMPLE MAILERS ARE AVAILABLE FROM THE LOCAL COOPERATIVE EXTENSION SERVICE OFFICE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIOUS SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 300 POUNDS PER ACRE OR 7.5 POUNDS PER 1,000 SQUARE FEET USING 10-10-10 OR EQUIVALENT. IN ADDITION, 300 POUNDS OF 38-0-0 PER ACRE OR EQUIVALENT OF SLOW RELEASE NITROGEN MAY BE USED FOR TOPDRESSING. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% FINEST CALCIUM PLUS MAGNESIUM OXIDE) AS FOLLOWS:
- SOL TEXTURE TONS/AC. LBS./1000 SQ.FT.
- CLAY, CLAY LOAM AND 3 135
- HIGH ORGANIC SOIL 2 90
- SANDY LOAM, SILT LOAM 1 45
- LOAMY SAND, SAND REFER TO COUNTY SOIL SURVEY REPORT FOR SOIL TEXTURES AT THE SITE.
- WORK LIME AND FERTILIZE INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHERE FEASIBLE.
- REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLOUDS, LUMPS OR OTHER UNSUITABLE MATERIAL.
- INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE REROLLED AND FIRMED AS ABOVE.
- D. SEEDING
- SELECT A MIXTURE FROM BELOW OR USE MIXTURE RECOMMENDED BY THE SOIL CONSERVATION SERVICE. INOCULATE ALL MIXTURES WITH THE CORRECT TYPE AND AMOUNT OF INOCULANT.
- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULPICKER TYPE SEEDER OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCHES. HYDROSEEDINGS WHICH ARE MULCHED MAY BE LEFT ON SOIL SURFACE.
- WHERE FEASIBLE, EXCEPT WHERE EITHER A CULPICKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT GRAD. SEEDING OPERATIONS SHOULD BE ON THE CONTOUR.
- HYDRAULIC APPLICATION (HYDROSEEDING), IS A SUITABLE METHOD FOR USE IN CRITICAL AREAS. WHEN USED, A SEEDBED IS PREPARED IN THE CONVENTIONAL WAY OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND TO REMOVE SURFACE STONES LARGER THAN SIX INCHES IN DIAMETER. SLOPES MUST BE NO STEEPER THAN 2 TO 1 (2 FEET HORIZONTALLY TO 1 FOOT VERTICALLY). SEEDING DEPTH MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). FIBER MULCH DOES NOT PROVIDE ADEQUATE SEEDING PROTECTION. BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH. SEEDING RATES MUST BE INCREASED 10 PERCENT WHEN HYDROSEEDING.
- SEED WARM SEASON GRASSES DURING THE SPRING PERIOD ONLY.

SEED MIXTURES FOR PERMANENT SEEDING			
No.	SEED MIXTURE (VARIETY)	LBS./ACRE	LBS./1,000 SQ. FT.
15	25% CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	20	.45
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	5	.10
	TOTAL	45	1.00
25	25% CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	20	.45
	REDTOP (STRECKER, COMMON)	2	.05
	TALL FESCUE (KENTUCKY 31) OR SMOOTH BROMEGRASS (SARATOGA, LINCOLN)	20	.45
	TOTAL	42	.95
35	25% CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	20	.45
	BIRDS FOOT TREFLOID (EMPIRE, VIKING) WITH INOCULANT	8	.20
	TALL FESCUE (KENTUCKY 31) OR SMOOTH BROMEGRASS (SARATOGA, LINCOLN)	20	.45
	TOTAL	48	1.10
45	25% CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	20	.45
	REDTOP (STRECKER, COMMON)	2	.05
	BIRDS FOOT TREFLOID (EMPIRE, VIKING) W/INOCULANT	8	.20
	TOTAL	30	.70
55	WHITE CLOVER	10	.25
	PERENNIAL RYE GRASS	10	.25
	TOTAL	12	.30
65	25% CREEPING RED FESCUE	20	.50
	REDTOP (STRECKER, COMMON)	2	.05
	PERENNIAL RYE GRASS	20	.50
	TOTAL	42	1.05
75	SMOOTH BROMEGRASS (SARATOGA, LINCOLN)	15	.35
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	5	.10
	BIRDS FOOT TREFLOID (EMPIRE, VIKING) W/INOCULANT	10	.25
	TOTAL	30	.70
85	SWITCHGRASS (BLACKWELL, SHELTER, CAVE-IN-ROCK)	101	.25
	WEEPING LOVEGRASS	3	.07
	LITTLE BLUESTEM (BLAZE, ALDOUS, CAMPER)	101	.25
	TOTAL	203	.57
95	25% CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	10	.25
	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INOCULANT	15	.35
	OR (FLATPEA (LATHCO) WITH INOCULANT)	(30)	(.75)
	TALL FESCUE (KENTUCKY 31) OR SMOOTH BROMEGRASS (SARATOGA, LINCOLN) REDTOP (STRECKER, COMMON)	2	.05
	TOTAL	42	1.00 (OR 1.25)
105	25% CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	20	.45
	REDTOP (STRECKER, COMMON)	2	.05
	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INOCULANT	15	.35
	OR (FLATPEA (LATHCO) WITH INOCULANT)	(30)	(.75)
	TOTAL	37	.85 (OR 1.25)
115	BIRDS FOOT TREFLOID (EMPIRE, VIKING) WITH INOCULANT	8	.20
	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INOCULANT	15	.35
	CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	15	.35
126	SWITCHGRASS (BLACKWELL, SHELTER, CAVE-IN-ROCK)	101	.25
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	5	.10
	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INOCULANT	15	.35
	TOTAL	45	1.05
136	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INNOCLANT	10	.25
	OR (FLATPEA (LATHCO) WITH INOCULANT)	(30)	(.75)
	SWITCHGRASS (BLACKWELL, SHELTER, CAVE-IN-ROCK)	5	.10
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	5	.10
	TOTAL	20	.45 (OR .95)
146	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INNOCLANT	15	.35
	OR (FLATPEA (LATHCO) WITH INOCULANT)	(30)	(.75)
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	10	.25
	TOTAL	25	.60 (OR 1.00)
156	SWITCHGRASS (BLACKWELL, SHELTER, CAVE-IN-ROCK)	5	.10
	BIG BLUESTEM (NAGRA, KAW) OR LITTLE BLUESTEM (BLAZE, ALDOUS,CAMPER)	5	.10
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	5	.10
	BIRDS FOOT TREFLOID (EMPIRE, VIKING) WITH INOCULANT	10	.25
	TOTAL	20	.40
166	TALL FESCUE (KENTUCKY 31)	20	.45
	FLATPEA (LATHCO) WITH INOCULANT	30	.75
	TOTAL	50	1.20
176	DEER TONGUE (TOGA) WITH INOCULANT	10	.25
	BIRDS FOOT TREFLOID (EMPIRE, VIKING) WITH INOCULANT	8	.20
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	3	.07
	TOTAL	21	.52
186	DEER TONGUE (TOGA) WITH INOCULANT	10	.25
	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INOCULANT	15	.35
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	5	.10
	TOTAL	28	.67
195	CHARDWISS FESCUE	35	.80
	HARD FESCUE	30	.70
	COLONIAL BENTGRASS	5	.10
	BIRDS FOOT TREFLOID (EMPIRE, VIKING) WITH INOCULANT	10	.25
	PERENNIAL RYEGRASS	20	.50
	TOTAL	100	2.30
205	DELETED DUE TO INVASIVE SPECIES		
215	CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	60	1.35
225	CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	40	.90
	TALL FESCUE (KENTUCKY 31)	20	.45
	TOTAL	60	3.60
235	CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	15	.35
	FLATPEA (LATHCO) WITH INOCULANT	30	.75
	TOTAL	45	3.60
245	TALL FESCUE (KENTUCKY 31)	102	3.60
255	AMERICAN BEACHGRASS (CAPE)	58,500	1,345
	CULMS/ACRE		CULMS/100 SF
266	SWITCHGRASS (BLACKWELL, SHELTER, CAVE-IN-ROCK)	4.0	.10
	BIG BLUESTEM (NAGRA, KAW)	4.0	.10
	LITTLE BLUESTEM (BLAZE, ALDOUS, CAMPER)	1.5	.03
	SAND LOVEGRASS (NE-27, BEND)	2.0	.05
	BIRD'S-FOOT TREFLOID (EMPIRE VIKING)	2.0	.05
	TOTAL	13.5	.33
275	FLATPEA (LATHCO)	10	.20
	EXPERIANIA (LANCE)	2	.05
	CROWN VETCH (CHEMUNG, PENNGIFT)	10	.20
	TALL FESCUE (KENTUCKY 31)	2	.05
	TOTAL	24	.45
285	ORCHARDGRASS (PENNLATE, KAY,POTOMAC)	5	.10
	TALL FESCUE (KENTUCKY 31)	10	.20
	REDTOP (STRECKER, COMMON)	2	.05
	BIRD'S-FOOT TREFLOID (EMPIRE VIKING)	5	.10

MOWING DESIRED			
NO.	MIXTURE NUMBER	MOWING DESIRED	MOWING NOT REQUIRED
1,2,3,4,5, OR 8	5,6,7,8,9,10,11,12,16,22		
A) WELL OR EXCESSIVELY DRAINED SOILS			
B) SOMEWHAT POORLY DRAINED SOILS	2	5,6	
C) VARIABLE DRAINAGE SOILS	2	5,6,11	
D) IF GRADE OF CONSTRUCTION DRAINAGE DRAINS TO THE PAVED SURFACE AND EXCEEDS 2% CONSTRUCT A WATER BAR WITHIN THE ENTRANCE OF THE DRAINAGE DITCH OR CHANNEL BANKS			
A) WELL OR EXCESSIVELY DRAINED SOILS 1,2,3, OR 4			
B) SOMEWHAT POORLY DRAINED SOILS 2	9,10,11,12		
C) VARIABLE DRAINAGE SOILS 2			
DIVERGERS			
A) WELL OR EXCESSIVELY DRAINED SOILS 2,3, OR 4	9,10,11		
B) SOMEWHAT POORLY DRAINED SOILS			
C) VARIABLE DRAINAGE SOILS	2		
D) EFFLUENT DISPOSAL		5 OR 6	
E) GRAVEL PIT		26,27,28	
F) GULLED AND GROVED AREAS		3,4,5,8,10,11,12	
G) MISCROIL & WASTE			

(IF TOXIC SUBSTANCES AND PHYSICAL PROPERTIES NOT LIMITING)3

SHOULDER (FLUCTUATING WATER LEVELS)

SKID SLOPES

SUNNY RECREATION AREAS (POND AREAS AND PLAYGROUNDS OR DRIVING AND ARCHERY RANGES, NATURE TRAILS)

CAMPING AND PARKING, NATURE TRAILS (SHADED)

SAND DUNES (BLOWING SAND)

WOODLAND ACCESS ROADS

SKID TRAILS AND LOG YARDING AREAS

LAWNS AND HIGH MAINTENANCE

1,19,21,OR 29

9,10,16,22,26

FOOTNOTES:

1 THE NUMBERS FOLLOWING IN THESE COLUMNS REFER TO SEED MIXTURES IN FOLLOWING TABLE. MIXES FOR SHADY AREAS ARE IN BOLD ITALICS PRINT (INCLUDING MIXES 20 THROUGH 24)

2 SEE COUNTY SOIL SURVEY FOR DRAINAGE CLASS. SOIL SURVEYS ARE AVAILABLE FROM THE COUNTY SOIL AND WATER CONSERVATION DISTRICT OFFICE.

3 USE MIX 26 WHEN SOIL PASSING A 200 MESH SIEVE IS LESS THAN 15% OF TOTAL WEIGHT. USE MIX 26 & 27 WHEN SOIL PASSING A 200 MESH SIEVE IS BETWEEN 15 AND 20% OF TOTAL WEIGHT. USE MIX 26,27 & 28 WHEN SOIL PASSING A 200 MESH SIEVE IS ABOVE 20% OF TOTAL WEIGHT.

SEED MIXTURES FOR PERMANENT SEEDING			
No.	SEED MIXTURE (VARIETY)	LBS./ACRE	LBS./1,000 SQ. FT.
15	25% CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	20	.45
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	5	.10
	TOTAL	45	1.00
25	25% CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	20	.45
	REDTOP (STRECKER, COMMON)	2	.05
	TALL FESCUE (KENTUCKY 31) OR SMOOTH BROMEGRASS (SARATOGA, LINCOLN)	20	.45
	TOTAL	42	.95
35	25% CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	20	.45
	BIRDS FOOT TREFLOID (EMPIRE, VIKING) WITH INOCULANT	8	.20
	TALL FESCUE (KENTUCKY 31) OR SMOOTH BROMEGRASS (SARATOGA, LINCOLN)	20	.45
	TOTAL	48	1.10
45	25% CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	20	.45
	REDTOP (STRECKER, COMMON)	2	.05
	BIRDS FOOT TREFLOID (EMPIRE, VIKING) W/INOCULANT	8	.20
	TOTAL	30	.70
55	WHITE CLOVER	10	.25
	PERENNIAL RYE GRASS	10	.25
	TOTAL	12	.30
65	25% CREEPING RED FESCUE	20	.50
	REDTOP (STRECKER, COMMON)	2	.05
	PERENNIAL RYE GRASS	20	.50
	TOTAL	42	1.05
75	SMOOTH BROMEGRASS (SARATOGA, LINCOLN)	15	.35
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	5	.10
	BIRDS FOOT TREFLOID (EMPIRE, VIKING) W/INOCULANT	10	.25
	TOTAL	30	.70
85	SWITCHGRASS (BLACKWELL, SHELTER, CAVE-IN-ROCK)	101	.25
	WEEPING LOVEGRASS	3	.07
	LITTLE BLUESTEM (BLAZE, ALDOUS, CAMPER)	101	.25
	TOTAL	203	.57
95	25% CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	10	.25
	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INOCULANT	15	.35
	OR (FLATPEA (LATHCO) WITH INOCULANT)	(30)	(.75)
	TALL FESCUE (KENTUCKY 31) OR SMOOTH BROMEGRASS (SARATOGA, LINCOLN) REDTOP (STRECKER, COMMON)	2	.05
	TOTAL	42	1.00 (OR 1.25)
105	25% CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	20	.45
	REDTOP (STRECKER, COMMON)	2	.05
	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INOCULANT	15	.35
	OR (FLATPEA (LATHCO) WITH INOCULANT)	(30)	(.75)
	TOTAL	37	.85 (OR 1.25)
115	BIRDS FOOT TREFLOID (EMPIRE, VIKING) WITH INOCULANT	8	.20
	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INOCULANT	15	.35
	CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	15	.35
126	SWITCHGRASS (BLACKWELL, SHELTER, CAVE-IN-ROCK)	101	.25
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	5	.10
	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INOCULANT	15	.35
	TOTAL	45	1.05
136	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INNOCLANT	10	.25
	OR (FLATPEA (LATHCO) WITH INOCULANT)	(30)	(.75)
	SWITCHGRASS (BLACKWELL, SHELTER, CAVE-IN-ROCK)	5	.10
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	5	.10
	TOTAL	20	.45 (OR .95)
146	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INNOCLANT	15	.35
	OR (FLATPEA (LATHCO) WITH INOCULANT)	(30)	(.75)
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	10	.25
	TOTAL	25	.60 (OR 1.00)
156	SWITCHGRASS (BLACKWELL, SHELTER, CAVE-IN-ROCK)	5	.10
	BIG BLUESTEM (NAGRA, KAW) OR LITTLE BLUESTEM (BLAZE, ALDOUS,CAMPER)	5	.10
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	5	.10
	BIRDS FOOT TREFLOID (EMPIRE, VIKING) WITH INOCULANT	10	.25
	TOTAL	20	.40
166	TALL FESCUE (KENTUCKY 31)	20	.45
	FLATPEA (LATHCO) WITH INOCULANT	30	.75
	TOTAL	50	1.20
176	DEER TONGUE (TOGA) WITH INOCULANT	10	.25
	BIRDS FOOT TREFLOID (EMPIRE, VIKING) WITH INOCULANT	8	.20
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	3	.07
	TOTAL	21	.52
186	DEER TONGUE (TOGA) WITH INOCULANT	10	.25
	CROWN VETCH (CHEMUNG, PENNGIFT) WITH INOCULANT	15	.35
	PERENNIAL RYEGRASS (NORLEA, MANHATTEN)	5	.10
	TOTAL	28	.67
195	CHARDWISS FESCUE	35	.80
	HARD FESCUE	30	.70
	COLONIAL BENTGRASS	5	.10
	BIRDS FOOT TREFLOID (EMPIRE, VIKING) WITH INOCULANT	10	.25
	PERENNIAL RYEGRASS	20	.50
	TOTAL	100	2.30
205	DELETED DUE TO INVASIVE SPECIES		
215	CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	60	1.35
225	CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	40	.90
	TALL FESCUE (KENTUCKY 31)	20	.45
	TOTAL	60	3.60
235	CREEPING RED FESCUE (PENNLAWN, WINTERGREEN)	15	.35
	FLATPEA (LATHCO) WITH INOCULANT	30	.75
	TOTAL	45	3.60
245	TALL FESCUE (KENTUCKY 31)	102	3.60
255	AMERICAN BEACHGRASS (CAPE)	58,500	1,345
	CULMS/ACRE		CULMS/100