

DIVISION 2

SECTION 02930

SEEDING

PART 1. GENERAL

1.01 SUMMARY

This Section specifies requirements for endophyte seed, seeding, the application of flexible growth medium (FGM) and dust retardant at Airports.

1.02 DEFINITIONS

- A. The term "Blue Tag Certified" refers to the original certification tag, blue in color, that certifies that the seed was produced in Oregon, of the latest crop, bearing the lot number that matches the lot number on the Oregon State University Seed Laboratory Report of Seed Analysis.

1.03 DESIGN AND PERFORMANCE REQUIREMENTS

- A. Use product-testing methods adopted and published by the Association of Official Analytical Chemists, 1111 19th Street Suite 210, Arlington, VA 22209.
- B. As a guide to determine local weather predictions use the National and Local Forecast, Hurricane, Radar and Report website at <http://www.weather.com> as published by the Weather Channel.
- C. Seed and installation practices shall comply with Federal Aviation Administration (FAA) Advisory Circular 150/5200-33B, Hazardous Wildlife Attractants On Or Near Airports, August 28, 2007.
- D. Pest control for turfgrass shall be in accordance with the "2006 Pest Management Guidelines for Commercial Turfgrass", published by Cornell University, Ithaca, NY. This publication is available from The Resource Center, Cornell University, Ithaca, NY 14853. Telephone (607) 255-9946.
- E. Grass seed shall have attached thereto or in a conspicuous place on the exterior of the container a plainly printed label in the English language, in legible type specifying:
 - 1. All endophyte seed lots shall be Blue Tag Certified, produced in Oregon, of the latest crop. The state of origin shall be Oregon, no exceptions.

2. Provide a copy of the Oregon State University Seed Laboratory Report of Seed Analysis bearing the lot number matching all the bags of seed delivered to the Work site.
3. Provide the name of Seed Company located in Oregon, along with the Blue Tag Certified seed variety, date of harvest and proof of storage in cold and dry conditions of the seed delivered to the Work site.
4. Provide the name and address of the person who labeled said seed, or who sells or offers the seed for sale to the Contractor if the seed being delivered to the Work site is not the originating seed company from Oregon.
5. Provide certification from 4 above that the seed delivered to the Work site shall have been shipped directly from Oregon and never stored anywhere else except the production facility in Oregon.
6. Provide the commonly accepted name of the kind or kind and variety, or both, of each agricultural seed component in excess of 5.0% of the whole and the percentage by weight of pure seed of each.
7. Percentage by weight of all weed seeds. Maximum weed seed content shall not exceed 1% by weight.
8. Lot number or other lot identification.
9. The percentage of germination, exclusive of hard seed; hard seed, if present, and the calendar month and year that the germination test was completed. If a single test date is used, it shall be that of the oldest tested component.
10. All delivered endophyte seed shall be fresh seed, having a proof of harvest date, and delivered to the Work site for immediate application. Seed delivered to the Work site for immediate application exceeding two months from the date it left storage in Oregon shall not be accepted.
11. Any bag of seed without a blue tag and corresponding Oregon State University Seed Laboratory Report of Seed Analysis bearing the lot number matching all the bags of seed delivered to the Work site will be rejected by the Engineer and the Contractor shall immediately remove it from the Work site and replace with seed that complies with this Specification.
12. The percentage of endophyte level shall meet or exceed the level specified herein. Any test results as per 1.05 B. 4 of the bags of seed with a seed label indicating that the percentage level of endophyte is less than specified shall be rejected by the Engineer and the Contractor shall immediately remove it from the Work site and replace with seed that complies with this Specification.

1.04 ENVIRONMENTAL REQUIREMENTS

- A. Perform operations only during the following weather conditions:
 - 1. There shall be no frost in the ground and the soil temperature at each planting area shall be above 32 degrees F.
 - 2. There shall be no form of precipitation falling or forecast to fall within the next two hours. Following a period of precipitation, resume operations only after the soil has drained.
 - 3. Apply chemicals only when wind velocity is below 5 mph, drift hazard is negligible, the air temperature is above 40 degrees F and below 70 degrees F.
 - 4. Do not perform any product application if precipitation has fallen within two hours prior to the planned application time or is forecast during the next 12-hour period.
- B. Seeding Calendar Limitations
Seed as per Appendix "B" of this Section.

1.05 QUALITY ASSURANCE

- A. Qualifications
 - 1. Verify that the entity and its workers performing the Work of this Section are experienced in landscaping and have been engaged in work of a complexity similar to that required under this Section for a period of at least three years.
 - 2. Verify that the entity performing pesticide applications has a valid license as a commercial applicator from the state in which the Work is being performed.
 - 3. Verify that the entity performing the Work has a Billion Turfmaker II Seeder to install the seed for this Work. Hydroseeding will not be permitted.
 - 4. Verify that the entity performing the Work has a Hydromulcher with a "mechanical agitator paddle" as manufactured by one of the following: Aqua Mulcher, Bowie, Finn, Kincaide and Turfmaker. A hydromulcher that uses "jet agitation" will not be permitted to be used.
- B. General Requirements for Operations and Products
 - 1. After delivery to the construction site, allow the Engineer, at his discretion, to take for analysis representative samples of any item listed in PART 2 - PRODUCTS.
 - 2. Seed
 - a. Submit all the information specified in 1.03 E. 1 – 12 to the Engineer for review and approval prior to delivery to the construction site.
 - b. Do not supply or plant the following turfgrasses under any circumstance:
Winter Wheat

Tall Fescue Grass with less than 90% Endophyte [levels](#)

Tall Fescue Grass without Endophyte

Kentucky Blue Grass

Buffalo Grass

Bent Grass

Bermuda Grass

Fine Fescue Grass

Annual Rye Grass

Perennial Rye Grass with less than 90% Endophyte [levels](#)

Perennial Rye Grass without Endophyte

Native Grasses

3. Pesticide

- a. Select to act on identified pest and use the manufacturer's recommended formula, application rate and safety instructions at all times.
- b. Keep all records that are or may be required by Federal, State or Local laws. Submit copies of these records to the Engineer within 5 days when so requested.
- c. Not less than forty-eight hours prior to a proposed spray operation, submit to the Engineer for his review and approval a tabulated list indicating the target to be treated, the chemical trade name and quantity of mix being prepared.

4. Testing for Endophytes

- a. Submit the test result for "Seed immunoblot assay testing". No later than two months prior to delivery of endophyte seed to the Work site, submit a sample of seed for testing in accordance with Appendix "C" and submit the results to the Engineer prior to delivery. Submit a minimum of one (1) pint of seed per every one hundred (100) 50-pound bags of seed delivered to the Work site.
- b. Submit the test results for "Seed Grow-out testing". No later than two months prior to delivery of endophyte seed to the Work site, submit a sample of seed for testing in accordance with Appendix "C" and submit the results to the Engineer prior to delivery. Submit a minimum of one hundred (100) seeds per every one hundred (100) 50-pound bags of seed delivered to the Work site.
- c. Submit the test results for "Tiller testing". No later than two months after on-site germination, submit tiller samples for testing in accordance with Appendix "C" and submit the results to the Engineer. Submit a minimum of fifty tillers per every one (1) Acre of seeded area.

5. Soil Testing

- a. Submit to the Engineer the “Technical Topsoil Evaluation” from the Rutgers Soil Testing Laboratory as specified in Section 02920 – Soil Testing. “Technical Topsoil Evaluation” lab request shall specify the crop to be grown as lawn.
 - b. Perform nutrient controls as recommended in the “Technical Topsoil Evaluation” for establishing lawn. Nutrient control adjustments shall be provided by the Contractor at no additional cost to the Authority.
6. Lawn Mower Equipment
- a. Verify that the entity performing lawn mowing utilizes a Mulching Mower, capable of producing a fine mulch and produce no windrows. Provide a list of lawns mowers to be used as well as the manufacturer catalog cuts describing how the mulching mower operates to produce a fine mulch and produce no windrows.
- C. Reseeding
- 1. Replace unsatisfactory seeded areas for a period of six months from the date of rendition of the Certificate of Final Completion. Reseed all areas, at no additional cost to the Authority, that are:
 - a.) dead
 - b.) have weed and/or pest infestations
 - c.) <90% endophyte viability proved by tiller testing performed on seed grow-outs and/or germinated seed at the construction site.
 - 2. Perform replacement of unsatisfactory seeded areas with products and by operations that comply with all requirements of this Specification, and on such date(s) as ordered by the Engineer.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver all products in the manufacturer's unopened containers bearing the trade name, manufacturer's name, weight and analysis.
- B. Store products away from moisture and extreme temperatures and in such a manner that their effectiveness will not be impaired.
- C. Formulation, Application and Equipment
 - 1. Use the manufacturer's recommended formula, application rate and safety instructions at all times.
 - 2. Mix and agitate products and use equipment according to the manufacturer's directions. Mix and agitate only in an area designated by the Engineer.
 - 3. Dispose of spilled materials and surplus products away from Authority property.

1.07 SUBMITTALS

See Appendix "A" for submittals requirements.

PART 2. PRODUCTS

2.01 MATERIALS

A. Nutrient Controls

1. Fertilizer

Granular - 10-6-4, slow release fertilizer conforming to the following:

- a. Commercial fertilizer 10-6-4, dust-free, homogenous, granular fertilizer with 50% nitrogen derived from ureaform

Guaranteed analysis shall be

10% Nitrogen,

3.0%-3.5% W.I.N. (water-insoluble nitrogen)

2.8 % Water Soluble Nitrogen* (*Contains slowly available Nitrogen from Methylene Urea)

4.2 % Ammoniacal Nitrogen

6% P₂O₅

4% K₂O

2.0 % Magnesium (Mg)

1.0 % Iron (Fe)

2. Soil pH adjustment

- a. Granulated dolomitic limestone conforming to the following:

1). Total carbonates not less than 86% of 48.2% calcium oxide equivalent. For purposes of calculation, total carbonates shall be considered as calcium oxide. Magnesium oxide content shall be between 15 – 22%.

2). A dust-free, homogenous, granular material.

- b. Soil pH adjustment - Elemental Sulfur

Guaranteed analysis shall be

0% Nitrogen

0% Phosphorus

0% Potassium

90% Sulfur

B. Turf Seed

1. Turf seed shall be the latest crop, clean, pure and free of noxious weed seed, of the variety and mix as provided in Appendix "B" and accordance to 1.03 E and 1.05 B. 4.

C. Dust Retardant

1. "Coherex" as manufactured by Golden Bear Division of the Witco Corporation, Chandler, AZ 85244
2. "Soil-Sement" as manufactured by Midwest Industrial Supply, Inc., Canton, OH 44711
3. "Soil Seal Concentrate" as manufactured by Soil Seal Corporation, Los Angeles, CA 90017
4. Or approved equal.

D. Flexible Growth Medium

1. "Flexterra FGM" as manufactured by Profile Products, LLC. Buffalo Grove, IL 60089.

Or approved equal conforming to the following:

Clean, uniform, nontoxic, and free of seeds, fungi, and other plant pathogens;

Heat-processed in such a manner as to contain no growth or germination inhibiting factors.

Interlocking crimped polyester fibers combined with wood fiber and crosslinked tackifier having the following physical properties:

Moisture Content	12% +-3
Wood Fiber	85% Max
Locking Fibers	5.0% +-1
Crosslinked Tackifier	10% +-1
Water Holding Capacity	1500% Min
Organic Material	95% Min
pH	4.8 +-2

2. Flexible Growth Medium is available from the following suppliers:
 - a. Pinelands Nursery, 232 Island Avenue, Columbus, NJ 08022
 - b. All Pro Horticulture, 55 Motor Avenue, Farmingdale, NY 11735

- c. ACF Environmental, 48 Old Grays Brook Rd., Brookfield, CT 06804
- d. AH Harris & Sons, 17 Commercial Drive, Albany, NY 12205
- e. Pennington Seed, 9327 US RTE 1, Laurel, MD 20723

E. Weed Control/Glyphosate

- 1. “Round-up Pro” as manufactured by Monsanto, St. Louis, MO 63167 or approved equal.

41% - Glyphosate N - (phosphonomethyl) glycine

59% - Inert Ingredients

F. “Futerra F4NETLESS” as manufactured by Profile Products, LLC, Buffalo Grove, IL 60089 or approved equal conforming to the following:

Thickness	0.2 inches
Wood Fiber	85%
Locking Fibers	5.0%
Tensile Strength	4.3 lbs/ft
Water Holding Capacity	395%

Futerra F4NETLESS is available from the following suppliers:

- a. Pinelands Nursery, 232 Island Avenue, Columbus, NJ 08022
- b. All Pro Horticulture, 55 Motor Avenue, Farmingdale, NY 11735
- c. ACF Environmental, 48 Old Grays Brook Rd., Brookfield, CT 06804
- d. AH Harris & Sons, 17 Commercial Drive, Albany, NY 12205
- e. Pennington Seed, 9327 US RTE 1, Laurel, MD 20723

G. Biodegradable Staple

- 1. Biodegradable staples shall be Round Top Bio-Pin, Turtac, EcoPin, e-Staple or an approved equal.
- 2. Staples shall be biodegradable, able to biodegrade within 8-24 months and have sufficient strength and length to securely hold the erosion control mat.

PART 3. EXECUTION

3.01 PREPARATION

A. Areas of Changed Grades

Verify that areas of changed grades, which are to be seeded as shown on the Contract Drawings, are in conformance with the grading plans and have a smooth, uniform surface. Rototill subgrade to a minimum six (6) inch depth. Remove stones over two inches in any dimension, roots, rubbish and other extraneous materials. Limit preparation to areas, which will be seeded promptly after preparation.

Subgrade shall be defined as either existing in-place soil or clean fill placed after removing unsuitable existing soil or existing pavement and base aggregate.

B. Unaltered Areas

Where seeding is to be performed within areas that have not been altered or disturbed by excavation, grading or stripping operations, as shown on the Contract Drawings, prepare subgrade as follows:

1. Remove existing vegetation. Apply "Roundup Pro" as per manufacturers instructions, at least ten days prior to seeding. Dispose of such materials away from Authority property.
2. Rototill to a depth of not less than six inches to produce a homogenous mixture of fine texture, free of clods, stones, roots and other extraneous materials. Dispose of such materials away from Authority property.
3. Rake and drag soil surface to remove high areas and fill depressions.
4. Limit preparation to areas, which will be seeded promptly after preparation.

C. Sustainable Measures

Remove all debris resulting from the soil preparation operations promptly. Thoroughly clean the Work area to the satisfaction of the Engineer. Remove and transport off Authority property all debris materials resulting from the soil preparation operation in accordance with Division 1 clause entitled "Recycling of Construction Debris Materials".

D. Erosion Control and Sedimentation Measures

Apply erosion and sediment control measures at all times as required by this Contract and the governing regulatory agencies.

3.02 INSTALLATION

A. Seeding Operations

1. Apply two (2) inches of compost as per Section 02960 to all areas to be seeded.

2. Apply 10 pounds of “Soil pH adjustment” per 1000 square feet to all areas to be seeded. Rototill “soil pH adjustment” to six (6) inch depth prior to seeding.
 3. Apply 10-6-4 fertilizer uniformly by machine at the rate of 1 pound of Nitrogen per 1000 square feet. Work lightly into the top six inches of soil.
 4. Sow grass seed at the rate provided in Appendix B “Permanent Seeding” of this Section and cover in such manner that a uniform stand would result.
 5. Seed the area uniformly in two passes using a Brillion Turfmaker II Seeder and in uniform rows that cross each other at an angle of 30 degrees. Apply seed at designated seeding rates for both passes as per Appendix B “Permanent Seeding”.
 6. For areas too small for the use of a Brillion Turfmaker II Seeder, apply seed at the designated seeding rates per 1000 square feet with a broadcast spreader. Roll seeded area with a roller suitable enough to establish adequate soil – seed contact.
 7. Hydroseeding shall not be permitted.
- B. Mulching Seeded Areas
1. Strictly comply with manufacturer’s installation instructions and recommendations. Use approved mechanically agitated, hydraulic mulching machines with a fan-type nozzle (50-degree tip).
 - a. Fill tank to middle of agitator or tank about 1/3 full of water. Turn on pump to wet or purge lines. Begin agitating. Keep adding water slowly while adding the FGM at a steady rate.
 - b. Mix at a rate of 50 lbs of FGM per 125 gallons of water. Verify with the equipment manufacturer the optimum mixing rates for the FGM.
 - c. All FGM should be added once the tank is approximately $\frac{3}{4}$ full.
 - d. Thoroughly agitate and mix slurry for at least 10 minutes after adding the last of the FGM to fully activate all the bonding additives and to attain proper viscosity.
 - e. Turn off recirculation valve to minimize potential for air entrainment within the slurry.
 2. Apply FGM uniformly in successive layers, from two or more directions, to fully cover 100% of the soil surface at following rates:
 - a.) Minimum application shall be 3,000 lbs/acre for slopes <3:1.
 - b.) Minimum application shall be 3,500 lbs/acre for slopes >3:1.
 3. Do not over-spray the hydromulch onto runways, taxiways, roadway, sidewalks, signs, fences, gravel swales or any structure or surface feature. Any over-spray found anywhere except where seed is required, shall be thoroughly cleaned and repaired, all at no cost to the Authority.

4. For areas too small for hydromulching with Flexible Growth Medium (FGM), install a netless flexible growth medium blanket such as the Futerra F4NETLESS blanket as per manufacturers instructions. Use only biodegradable staples to secure Futerra F4NETLESS blanket to the soil surface.
- C. Application of Dust Retardant
1. Apply dust retardant on all completed areas that have not been seeded and/or where seed germination is less than 50% after 3 weeks from date seed was sown and when the calendar seeding date limits (See Appendix "B") have expired and seeding can no longer be performed or as approved by the Engineer.
 2. Apply dust retardant with an approved pressurized sprayer with a rating of 40-60 PSI.
 3. Do not apply dust retardant if precipitation is forecast within 24-hours after application.
- D. Care of Seeded Areas
- As per Appendix "B" of this Section, provide "Full" Care conforming to the following:
1. Full Care
Upon completion of seeding operations, maintain seeded area(s) in accordance with Appendix "B" for Permanent Seeding of this Section.

END OF SECTION

SECTION 02930

SEEDING

APPENDIX "A"

SUBMITTALS

Submit the following in accordance with the requirements of 'Inspections and Rejections' of Division 1 - General Provisions.

A. Qualifications

1. Submit qualifications of the entity and its workers performing the Work of this Section to the Engineer in accordance with 1.05 A. Include names of clients, telephone numbers, and contract amounts for work performed in the last three years and experience records of workers performing the Work of this Section.
2. Submit evidence of a valid pesticide applicator's license.
3. Submit a list of equipment owned by the entity as listed under 1.05.
4. Submit a list of contracts or similar scope including contracts using similar construction methods, products and equipment. Provide Contract Name, date of completion, number of acres seeded, Contact Name and Phone Number.

B Products

1. Submit in accordance with the requirements of "Inspections and Rejections" of Division 1 -GENERAL PROVISIONS, a complete "Product List", listing all products to be used under this Section.
2. Submit for approval to the Engineer the seed requirements in accordance with 1.03 E, 1-11.
3. Submit for approval by the Engineer, that the entity performing the seeding has a Brillion Turfmaker II Seeder and a hydromulcher in accordance with 1.05 A. 3-4 and verify that it will used for this Contract.
4. Submit for approval by the Engineer, that the entity performing the lawn mowing has a Mulching Mower, in accordance with 1.05 B. 6 and verify that it will be used for this Contract.
5. Submit certification from the manufacturer of Flexible Growth Medium that the installation meets or exceeds the required product preparation and applicaton rates.

- ##### **C.**
- Submit to the Engineer one copy of U.S. Department of Labor Material Safety Data Sheets (MSDS) and product labels for all hazardous chemicals utilized during the Work of this Section.

D. Testing

1. Submit to the Engineer the Oregon State University Seed Laboratory Report of Seed Analysis bearing the Lot number matching all the bags of seed delivered to the Work Site.
2. Submit to the Engineer the test results for Endophyte level analysis as specified in 1.05 B 4.
3. Submit to the Engineer the test results for “Technical Topsoil Evaluation as specified in Section 02920 and 1.05 B. 5 of this Section.
4. Submit to the Engineer the test results for the nutrient controls as recommended in the “Technical Topsoil Evaluation” as specified in Section 02920 “Crop – Lawn”.

END OF APPENDIX "A"

SAMPLE

APPENDIX "B"

SECTION 02930

SEEDING

A. SEED MIX

Permanent Seeding

1. Seed Mixture shall have originated in Oregon and be as distributed by F M Brown Seed, Sinking Spring, PA 19608 (800) 345-3344, Lesco, Inc., Mountainside, NJ 07092 (908) 317-0509, National Seed, New Brunswick, NJ 08901 (800) 828-5856, Jonathan Green, Farmingdale, NJ, (732) 938-7007 or approved equal and as follows:

Kind of Seed	% Mix:	% Min. Purity:	% Min. Germ:	% Min. Endophyte Infection:
Firecracker or Spider LS Tall Fescue	100	99	95	>90

2. Seeding rate shall be 6 pounds per 1000 square feet.
3. Seeding shall be performed only during the following periods:
 - April 1 - May 31 (latest crop, subject to proper storage and testing results)
 - August 16 - October 15 (latest crop, fresh seed, subject to proper storage and testing results)
4. Provide full care upon completion of seeding until issuance of certificate of final completion. Full care shall include irrigation when bi-weekly rainfall does not exceed one (1) inch of rainfall per week at the construction site and a weed-free installation at all times, at no additional cost to the Authority.
5. Successful seeding shall be defined by the following:
 - a. 85% survival of the specified turfgrass at the end of the Full care period as determined solely by the Engineer.
 - b. Endophyte test results for tillers that meet the minimum % endophyte viability levels as specified on the "blue tag certified" label and matching Oregon State University Seed Laboratory Report Seed Analysis when submitted to the Engineer.

B. SEED MIX

Temporary Seeding for Soil Erosion and Sedimentation Control

1. Seed Mix shall be as distributed by F M Brown Seed, Sinking Spring, PA 19608 (800) 345-3344, Lesco, Inc., Mountainside, NJ 07092 (908) 317-0509, National Seed, New Brunswick, NJ 08901 (800) 828-5856, Jonathan Green, Farmingdale, NJ, (732) 938-7007 or approved equal and as follows:

Kind of Seed	% Mix:	% Min. Purity:	% Min. Germ:	% Min. Endophyte Infection:
Assure, Legacy II or Wilmington Perennial Ryegrass	100	97	90	>90

2. Seeding rate shall be 6 pounds per 1000 square feet.
3. Seeding shall be performed:
April 1 - October 15 (latest crop, fresh seed, subject to proper storage and testing results)
4. Provide full care upon completion of seeding. Full care shall include irrigation when weekly rainfall does not exceed one (1) inch of rainfall per week at the construction site.
5. Successful seeding shall be defined by the following:
 - a. 85% survival of the specified turfgrass at the end of the Full care period as determined solely by the Engineer.

END OF APPENDIX "B"

APPENDIX "C"
SECTION 02930
SEEDING

TESTING LABS/CONTACTS

1.) Oregon State University Seed Laboratory

3291 SW Campus Way

Corvallis, OR 97331-3801

Contact: Dr. Adriel Garay, Lab Manager

e-mail: adriel.garay@oregonstate.edu

Website: www.seedlab.oscs.oregonstate.edu

Tele: (541)-737-4464

Fax: (541)-737-2126

Endophyte Tests offered:

- Seed Testing: Immunoblot assay*
Lab requires one-pint seed sample
- Seed Grow-out/Plant Tissue Endophyte Analysis*
- Plant Tissue: Grass Tillers Endophyte Analysis*

2.) Agrinostics Ltd. Co

2850 Elder Mill Road

Watkinsville, GA 30677

Contact: Nick Hill (cell: 706-614-2485)

Tele: 706-769-2397

Web: www.agrinostics.com

Endophyte Tests offered:

- Seed Testing: Immunoblot assay*
Lab requires minimum sample of 100 seeds
- Seed Grow-out Endophyte Analysis*
Lab requires minimum sample of 100 seeds
- Plant Tissue: Grass Tillers Endophyte Analysis*
Lab requires minimum of 50 tillers for tissue testing.

3.) Plant Diagnostic Lab

New Jersey Agricultural Experiment Station

Rutgers University
P.O. Box 550
Milltown, NJ 08850-0550
Contact: Richard Buckley
Tele: (732)-932-9140
Website: www.njaes.rutgers.edu/services

Endophyte Tests offered:

- Seed Testing: Endophyte Screening*
Lab requires one pint of seed for testing.
- Plant Tissue: Grass Tiller Endophyte Analysis Test *
Lab requires minimum of 50 tillers for tissue testing.

* Verify Fees/Sampling Procedures with Lab

SECTION 02930

SEEDING

INSTRUCTIONS TO SPECIFIER

A. GENERAL:

- 1.) Every unclassified item for seeding work will require an analysis of Bid.
 - b. Ensure that analysis of Bid form is filled in and inserted in the Contract Booklet.
 - c. Short Form contracts, other than Unit Price contracts, involving landscaping work must have an Analysis of Bid in the Contract Booklet.
- 2.) Ensure that the Contract Drawings show:
 - d. Extent of areas to be seeded (1.01)
 - e. Area(s) of changed grades or undisturbed grades (3.01 A and 3.01 B)
 - f. Ensure that appendix B show:
 1. Seed Mixture
 2. Mix proportions of seed.
 3. Rate of grass seed sowing.

END OF INSTRUCTIONS