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6/18/92

# ENGINEERING INSTRUCTION

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

SUBJECT: TURF AND WILDFLOWER  
ESTABLISHMENT

Subject Code: 7.27-1-610

**SUPERSEDED BY EI 93-007  
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Supersedes:

86-10

This Engineering Instruction transmits revisions to Sections 610, 611, 615, 713-03, 713-04, 713-12 and 713-21 of the Standard Specifications.

Section 610-Turf Establishment has been revised to Section 610 Turf and Wildflower Establishment in order to provide for the Planting and Establishment of Wildflowers in accordance with the 1987 Surface Transportation and Uniform Relocation Assistance Act. The key features of this revision are:

- Separate specifications and pay items for Establishing Turf and Establishing Wildflowers.
- The Wildflower seeding specification includes provisions for a Period of Establishment and Watering.
- Mowing requirements for turf areas seeded under Method No. 2 have been revised.

Section 615 - Landscape Miscellaneous has been revised. Items 615.0101, 615.0102, 615.0103, 615.0104, 615.02, 615.0401 and 615.0402 have been deleted from the Standard Specifications. The reference to watering in Item 611 has been revised to reflect the changes in the watering specifications.

Section 713-03 Fertilizer has been revised to require a high quality 10-6-4 fertilizer to avoid products that rapidly lose nitrogen through leaching, etc. Type No. 10 is now vacant.

Section 713-04 Seeds has been revised to include wildflower seeds and explains the calculations used to determine if seeds meet the contract specifications.

Section 713-12 has been revised to Mulch Anchorage and the basis of acceptance changed to the manufacturer's product label or product literature.

Section 713-21 is now vacant.

Perf.	File	
Design	Change	
Planning	Book	
MAY 9 1988		
Circ.	File	

Subject: TURF AND WILDFLOWER ESTABLISHMENT

The following provisions of EI 86-10 are continued:

- . Sampling and testing of seeds by the Department is no longer routinely required.
- . There is no separate pay item for mulch.
- . Applying Soil Conditioners is changed to Applying Soil Amendments with no change in work requirements.

These changes are effective with the letting of 7/14/88.

Payment Item 610.0202 Seeding and 615.03 Watering will not be valid for contracts let after the effective date of this Instruction.

## TURF AND WILDFLOWER ESTABLISHMENT

Make the following *changes* to the Standard Specifications of January 2, 1985.

Page iv

Under Section 600 Incidental Construction *delete* "610 Turf Establishment" and *replace* with "610 Turf and Wildflower Establishment".

Page 2-10

Under §203-3.03 *delete* "\$610, Turf Establishment" and *replace* with "\$610, Turf and Wildflower Establishment".

Page 6-29

Under Section 610 TURF ESTABLISHMENT *delete* the entire section and *replace* with the following:

### "SECTION 610 - TURF AND WILDFLOWER ESTABLISHMENT

**610 - 1 DESCRIPTION.** The work covered by this section includes work necessary to establish and care for turf and wildflowers.

**610-1.01 Applying Soil Amendments.** The work consists of furnishing and placing soil amendments as specified at the locations indicated in the contract documents or where directed by the Engineer.

**610-1.02 Establishing Turf.** The work consists of preparing ground surfaces for seeding; furnishing and installing fertilizer, seed, mulch and mulch anchorage on areas indicated in the contract documents or where directed by the Engineer; and caring for and establishing the work as specified. The work may also include furnishing and applying limestone as specified in the contract documents.

**610-1.03 Establishing Wildflowers.** The work consists of preparing ground surfaces for seeding; furnishing and installing seed, mulch and mulch anchorage on areas indicated in the contract documents or where directed by the Engineer; and caring for and establishing the work specified.

### 610-2 MATERIALS

**610-2.01 Applying Soil Amendments.** The materials shall meet the requirements of the following subsections of section 700-Materials Details and/or as further specified in the contract documents.

Limestone	713-02
Fertilizer	713-03

**610-2.02 Establishing Turf.** The materials shall meet the requirements of the following subsections of section 700-Materials Details and/or as further specified in the contract documents.

Limestone	713-02	Mulch anchorage	713-12
Fertilizer	713-03	Hay	713-18
Seeds	713-04	Straw	713-19
Wood fiber	713-11		

Turf establishment materials not otherwise specified in the contract documents shall be as follows:

Fertilizer	713-03 type No. 3
Hay or Straw	713-18 or 713-19
Mulch anchorage	713-12
Seeds	713-04

and as follows:

## TURF AND WILDFLOWER ESTABLISHMENT

Name	Variety	Wt. of Pure Live Seed Per Acre
Red Fescue(Festuca rubra)	Commercial	50
Perennial Ryegrass (Lolium perenne)	Commercial	30
White Clover (Trifolium repens)	Commercial Max. 25% hard seed	5
Total		85 lbs.

**610-2.03 Establishing Wildflowers.** The materials shall meet the requirements of the following subsections of section 700-Materials Details and/or as further specified in the contract documents.

Seeds	713-04
Straw	713-19
Mulch anchorage	713-12

### 610-3 CONSTRUCTION DETAILS

**610-3.01 Applying Soil Amendments.** Fertilizer and/or limestone shall be evenly spread over the surface of the soil in the areas described in the contract documents or where directed by the Engineer. The rates of application shall be as specified in the contract documents. Any method of application that will insure an even distribution will be acceptable. When hydraulic application is used the minimum rate of water shall be 500 gallons per acre unless otherwise specified in the contract documents.

### 610-3.02 Establishing Turf.

**A. Rates.** Application rates for turf establishment materials shall be as specified in the contract documents. When no rates for establishing turf are specified in the contract documents, the following shall apply:

Fertilizer	—	800 pounds per acre
Seed	—	85 pounds pure live seed per acre
Mulch	—	2 tons per acre
Mulch Anchorage	—	Manufacturer's recommended rate

**B. Limitations.** The contractor shall notify the Engineer at least 2 working days before the start of any seeding operation and shall not begin the work until the Engineer has given permission. When sodding and turf establishment are to be done in the same general areas, the sodding shall be done first, and equipment used during turf establishment shall not damage the sodded areas.

**C. Inoculation of Leguminous Seeds.** All seeds of leguminous plants requiring inoculation shall be inoculated prior to mixing or sowing unless otherwise specified or approved or unless accompanied by a certificate of preinoculation. When seeds requiring inoculation are to be sown dry, the inoculant shall be applied in accordance with its accompanying instructions and the seeds allowed to dry sufficiently for proper handling. Seeds shall be sown within thirty hours after this treatment. When seeds requiring inoculation are to be sown by water pressure, the inoculant may be added to the water and seed mixture, together with limestone and/or fertilizer as specified, providing the pH of the solution does not exceed 8.

**D. Round Preparation and Seeding.** All turf establishment areas shall be approved by the Engineer prior to seeding. Areas to be seeded with turf seeds shall be maintained at approved grades and irregularities that will hold water shall be eliminated. Weed growth that, in the Engineer's judgement, may adversely affect germination or growth shall be removed or controlled as approved or as directed by the Engineer prior to seeding. Limestone, fertilizer and seeds in the amounts specified shall be evenly distributed on the areas to be seeded. All mechanical equipment used for soil preparation or seeding shall be as approved. Equipment shall pass parallel to the contours unless otherwise approved except that crawler tractors shall pass at right angles to the contours.

## TURF AND WILDFLOWER ESTABLISHMENT

Establishing turf shall be done using Method No. 1, unless Method No. 2 is specified. Regardless of the method used, the finished surface of any area that is seeded shall not be rougher, more uneven or have more or larger stones, clods, roots, or other foreign materials than the area it adjoins. In built up and residential areas handraking will usually be necessary to produce the required smoothness and uniformity, particularly where grading and turf establishment is to be adjacent to lawns.

**Method No. 1** Areas to be seeded shall be scarified sufficiently to break up the surface crust immediately before seeding except where in the judgement of the Engineer, the ground is already loose and friable as immediately following grading. All stones and other objects over two inches in greatest dimension or other sizes as specified shall be removed and disposed of as approved. Only limestone and/or fertilizers may be mixed together with the seeds (including legume inoculants when required) immediately before sowing. Any method of sowing that does not injure the seeds in the process of spreading will be acceptable.

**Method No. 2** Areas to be seeded shall be harrowed, disked, or otherwise completely pulverized to a state of tillage acceptable to the Engineer. All stones and other undesirable material over one inch in greatest dimension or other sizes as specified shall be removed and disposed of as approved. Fertilizer and/or limestone as specified shall be uniformly distributed on the area to be seeded. Seeds shall be distributed uniformly by any approved method that does not injure the seeds in the process of spreading. Following distribution, seeds shall be incorporated in the soil to a depth not exceeding one-quarter inch by raking, brush or chain harrowing, or any other approved method.

**E. Mulching.** Mulch shall be spread uniformly in a continuous blanket of sufficient thickness to hide the soil from view, taking care not to over apply. Mulch may be spread by hand or by machinery. Mulch may be spread before seeding turf but not later than 72 hours after seeding turf unless otherwise approved or directed. Anchorage is required unless otherwise specified in the contract documents. Mulch and mulch anchorage shall be applied separately from seeds unless otherwise specified in the Contract Documents.

**F. Liability.** When the Engineer determines that any seeded area has failed for any reason to produce a satisfactorily established turf after a suitable period of time has elapsed, the Contractor shall repeat all the work required by this Section until a satisfactory growth of turf has been established. Any work to be corrected shall be at the Contractor's expense. The contract will not be accepted until a satisfactory turf has been established.

**G. Care During Construction.** The Contractor shall care for seeded turf areas until final acceptance of the contract. Care shall consist of providing protection against traffic by providing approved warning signs or barricades; and shall consist of repairs to any seeded turf areas damaged by wind, water, fire, traffic or other causes. Damaged areas shall be repaired to re-establish the condition and grade of the area prior to seeding and shall then be refertilized, reseeded and remulched as specified herein. The Contractor shall mow all turf establishment areas seeded on 1 on 3 or flatter slopes and all turf areas seeded under Method No.2 unless otherwise specified or directed by the Engineer.

Turf areas seeded under Method No. 1 shall be mowed to a height of three inches when growth reaches six inches or when growth tends to smother seedlings. After initial growth reaches five inches, areas seeded under Method No. 2 shall be mowed to a height of three inches, and then mowed once a week thereafter. Clippings from the first mowing shall be removed.

### 610-3.03 Establishing Wildflowers.

**A. Rates.** Application rates for wildflower establishment materials shall be as specified in the contract documents.

**B. Limitations.** The contractor shall notify the Engineer at least 2 working days before the start of any seeding operation and shall not begin the work until the Engineer has given permission.

**C. Inoculation of Leguminous Seeds.** Shall be as required under §610-3.02 C. Inoculation of Leguminous Seeds.

## TURF AND WILDFLOWER ESTABLISHMENT

**D. Ground Preparation and Seeding.** All wildflower establishment areas shall be approved by the Engineer prior to seeding. Areas to be seeded with wildflower seeds shall be maintained at approved grades and irregularities that will hold water shall be eliminated. Weed growth that, in the Engineer's judgement, may adversely affect germination or growth shall be removed or controlled as approved or as directed by the Engineer prior to seeding. Seeds in the quantities specified shall be evenly distributed on the areas to be seeded. All mechanical equipment used for soil preparation or seeding shall be as approved and shall pass parallel to the contours unless otherwise approved except that crawler tractors shall pass at right angles to the contours. Areas to be seeded shall be scarified sufficiently to break up the surface crust immediately before seeding except where the ground is already loose and friable as immediately following grading. All stones and other objects over six inches in greatest dimension or other sizes as specified shall be removed and disposed of as approved. Any method of sowing that does not injure the seeds in the process of spreading will be acceptable. The finished surface of any area that is seeded shall not be rougher, more uneven or have more or larger stones, clods, roots, or other foreign materials than the area it adjoins.

**E. Mulching.** Mulch shall be spread uniformly in a continuous blanket of sufficient thickness to hide the soil from view, taking care not to over apply. Mulch may be spread by hand or by machinery. Mulch shall not be spread before nor later than 72 hours after seeding wildflowers. Anchorage is required unless otherwise specified in the contract documents. Mulch and mulch anchorage shall be applied separately from seeds.

**F. Liability.** When the Engineer determines that any seeded area has failed for any reason to produce a satisfactorily established growth of wildflowers after a suitable period of time elapsed, the Contractor shall reseed such areas in the same manner as specified in the contract until a satisfactorily established growth of wildflowers has been established. Any work to be corrected shall be at the Contractor's expense. The contract will not be accepted until a satisfactory growth of wildflowers has been produced.

**G. Care of Wildflowers During Construction.** The Contractor shall care for the seeded wildflower areas until final acceptance of the contract or as required under §610-3.04. Care of wildflowers shall consist of keeping the wildflowers in a healthy growing condition by watering, controlling weeds, and by any other necessary operations. Care shall also consist of providing protection against traffic by providing approved warning signs or barricades, and shall consist of repairs to any seeded wildflower area damaged by wind, water, fire, traffic or other cause. Damaged areas shall be repaired to re-establish the condition and grade of the area prior to seeding and shall be reseeded and remulched as specified herein. The Contractor shall mow wildflower establishment areas once a year after the seed heads have matured, as approved by the Engineer for the duration of the contract.

**610-3.04 PERIOD OF ESTABLISHMENT.** The Period of Establishment shall begin immediately following the satisfactory completion of all the wildflower seeding as confirmed in writing by the Engineer. The Contractor shall be required to continue the work specified under §610-3.03 G, Care of Wildflowers During Construction for a period of one year or until the contract is complete, whichever is later.

In the event the Contractor requests acceptance of the contract and the "Period of Establishment" is not yet completed, the State, if approved by the Commissioner, may pay the Contractor monies retained under provisions of Section 38 Subdivision 7 of the Highway Law upon receipt of a certified check or securities as are listed in Subdivision 3 of Section 139 of the State Finance Law, in the amount of at least double the value of the uncompleted work under "Period of Establishment". For the purpose of determinations for contract acceptance prior to completion of the work under "Period of Establishment", the value of the work required under "Period of Establishment", including necessary reseeded, shall be considered as a sum equal to 10% of the price bid for the item of Establishing Wildflower unless otherwise specified.

When all work in the contract excepting §610-03, Establishing Wildflowers, has been completed and accepted, the Contractor agrees to procure and maintain for the duration and purposes of any such work of establishment, and at the Contractor's expense, insurance for liability for damages imposed by law, in insurance companies authorized to do such business in the State covering all such operations, whether performed by the Contractor or subcontractors.

Before commencing any such work, the Contractor agrees to furnish to the Commissioner a certificate or certificates of insurance, in form satisfactory to the Commissioner, showing that the Contractor has complied with this provision as to insurance, which certificate or certificates shall provide that the policies shall not be changed or cancelled until 30 days written notice has been given to the Commissioner.

The kind and amounts of insurance are as specified under §611-3.06 Period of Establishment.

At the conclusion of the Period of Establishment the Contractor shall remove any trash or debris from the wildflower planting area. Areas that in the judgement of the Engineer have failed to produce an established growth of wildflowers shall be noted for reseeded in accordance with the contract specifications.

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This requirement shall not prevent the release of the retained monies as herein defined at the expiration of the Period of Establishment but a certified check or securities, as previously described, equal to at least double the value of any uncompleted work will be required. No work other than reseeding and mulching will be required after the conclusion of the Period of Establishment.

### 610-4 METHOD OF MEASUREMENT

**610-4.01 Applying Soil Amendments.** Applying soil amendments will be measured as the number of tons of soil amendments that have been acceptably applied. The quantity of amendments applied will be computed to the nearest tenth of a ton.

**610-4.02 Establishing Turf.** Establishing turf will be measured as the number of acres of surface area that have been satisfactorily seeded. The quantity of seeded areas will be computed to the nearest tenth of an acre.

**610-4.03 Establishing Wildflowers.** Establishing wildflowers will be measured as the number of acres of surface area that have been satisfactorily seeded. The quantity of seeded areas will be computed to the nearest one hundredth of an acre.

### 610-5 BASIS OF PAYMENT

**610-5.01 Applying Soil Amendments.** The unit price bid per ton shall include the cost of all labor, equipment, materials and incidentals, including water necessary to complete the work as specified.

**610-5.02 Establishing Turf.** The unit price bid per acre shall include the cost of all labor, equipment, materials and incidentals, including water necessary to complete the work as specified.

**610-5.03 Establishing Wildflowers.** The unit price bid per acre shall include the cost of all labor, equipment, materials and incidentals, including water and watering necessary to complete the work as specified.

Payments will be made under:

Item No.	Item	Pay Unit
610.0101	Applying Soil Amendments	Ton
610.0203	Establishing Turf	Acre
610.03	Establishing Wildflowers	Acre"

#### Page 6-35

Under §611-5 Basis of Payment in the 2nd paragraph, 1st sentence *delete* "...under pay item for watering plants and sod..." and *replace* with "under pay item for watering vegetation."

#### Page 6-36

Under §612-3.01 H. Care During Construction, *delete* "section 615-3.03" and *replace* with "\$615-3.01"

#### Page i of Addendum No. 1

Under the Table of Contents, *delete* "615 Landscape Miscellaneous ..... 44"

#### Page 44 of Addendum No. 1

Under Page 6-40 *delete* the following:

"Page 6-40 Under §615-2 Materials, *change* "612-2.02 Herbicides" to "615-2.02 Herbicides".

## TURF AND WILDFLOWER ESTABLISHMENT

Page 6-40

Under Section 615, *delete* the entire section and *replace* with the following:

### "SECTION 615 - LANDSCAPE MISCELLANEOUS

**615-1 DESCRIPTION.** This work shall include watering plants, shrubs, ground covers, vines and other plants as specified in the contract documents. This work shall also include other landscape development items as specified in the contract documents, applicable standard sheets and in accordance with the specifications.

#### 615-2 MATERIALS

**615-2.01 Watering Vegetation.** The materials shall meet the requirements of the following subsection of section 700-Materials Details.

Water

712-01

#### 615-3 CONSTRUCTION DETAILS

**615-3.01 Watering Vegetation.** Water shall be applied in such a manner that the required volume of water will be provided without damage to plants, mulch, stakes, plant saucers, sod or other areas to be watered. Damage resulting from watering operations shall be repaired at the Contractor's expense.

#### 615-4 METHOD OF MEASUREMENT

**615-4.01 Watering Vegetation.** This work will be measured in thousand gallon units of water applied. The quantity applied will be determined from approved meters, or by measurement in tanks or tank trucks of predetermined capacity.

#### 615-5 BASIS OF PAYMENT

**615-5.01 Watering Vegetation.** The unit price bid shall include the cost of furnishing and applying water, all labor, equipment and incidentals necessary to satisfactorily complete the work.

Payment will be made under:

Item No.	Item	Pay Unit
615.0301	Watering Vegetation	1000 Gallons''

Page 7-104

Under §713-03 *delete* the entire subsection and *replace* it with the following:

### "713-03 FERTILIZER

**SCOPE.** This specification covers the material requirements for fertilizers.

**MATERIAL REQUIREMENTS.** Fertilizers may be either fluid or dry formulations of commercial carriers of available plant nutrients.

The following mixed commercial fertilizers shall contain total nitrogen, available phosphoric acid and soluble potash in the ratios stated:

Type No. 1. — 1-2-1 (approximate formulation)

Type No. 2. — 1-1-1 (approximate formulation)

The following fertilizers shall be as specified:

Type No. 3. — 10-6-4 (50% N/UF). 50% of total nitrogen shall be derived from ureaform furnishing a minimum of 3.5% water insoluble nitrogen(3.5%WIN).

The balance of the nitrogen shall be present as methylene urea, water soluble urea, nitrate and ammoniacal compounds.

Type No. 4. Nitrate of soda, shall contain a minimum of 16% nitrogen.

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- Type No. 5. Ammonium sulfate shall contain a minimum of 20.5% nitrogen.
- Type No. 6. Ammonium nitrate shall contain a minimum of 33% nitrogen, one-half of which is in the ammonium form and one-half of which is in the nitrate form.
- Type No. 7. A nitrogen carrier containing a minimum of 45% nitrogen such as Urea or equivalent.
- Type No. 8. Bonemeal shall be commercial steamed bonemeal, finely ground with a minimum of 1.0% nitrogen and a minimum of 20% phosphoric acid.
- Type No. 9. Superphosphate shall be an approximate 0-20-0 formulation with an acceptable minimum of eighteen percent (18%) available phosphoric acid.
- Type No. 10. Vacant
- Type No. 11. A controlled release fertilizer supplied in standardized packets designed to control the release of their contents over a period of time. The minimum guaranteed analysis shall be 16-8-16 with approximately one-half the Nitrogen in the ammonium form and one-half in the nitrate form.
- Three year packets shall contain a minimum of one ounce, and eight year packets shall contain a minimum of four ounces of the above fertilizer, unless otherwise approved.
- Type No. 12. Shall be as specified in the contract documents.

**Packaging.** Fertilizers shall be in the manufacturer's standard containers. Containers shall not weigh more than 100 pounds and shall include a label stating the name of the material, the net weight of the contents, the manufacturer's name and the guaranteed analysis of the fertilizer. Labels on containers of fluid fertilizers shall state the net volume of the container.

**Bulk Delivery.** Bulk delivery of fertilizer shall be accompanied by the manufacturer's certificate stating the name of the manufacturer, the guaranteed analysis and the weight of the shipment. Certificates accompanying bulk deliveries of fluid fertilizers shall also state the net volume of the shipment.

**BASIS OF ACCEPTANCE.** The manufacturer's label or certificate indicating compliance with these specifications shall be the basis of acceptance. The Engineer reserves the right to reject any material that has become caked or otherwise damaged."

Page 7-105

Under §713-04 SEEDS *delete* the entire section and *replace* it with the following:

### "713-04 SEEDS

**SCOPE.** This specification covers the material requirements for seeds.

**MATERIAL REQUIREMENTS.** Each species, variety and strain of grasses, legumes, wildflowers and cereals and the minimum percentage of germination of each shall be as specified in the contract documents unless otherwise approved.

Material other than pure live seed shall comprise only nonviable seed, chaff, hulls, live seed of crop plants other than those specified, harmless inert matter and weed seeds except that weed seeds other than seeds of noxious weeds will be permitted up to 1% of the gross weight of each kind of seed. Legume seeds requiring inoculation shall be accompanied by adequate amounts of their proper inoculants unless accompanied by certification of preinoculation.

The percentage of purity shown on the label will be acceptable. The percentage of germination for each of the species, variety or strains of seeds shown on the label shall not be less than the minimum percentage specified in the contract documents. The percentage of pure live seed of each kind in each container or bag of seeds delivered will be computed by multiplying the percent germination by percent purity and dividing by 100. The percentage of pure live seed of each kind multiplied by the net weight of the container or bag will indicate the number of pounds of pure live seed of each kind in the container or bag.

**Nomenclature.** The common and scientific names of grasses, legumes, wildflowers and cereals specified in the contract documents shall conform to one or more of the authorities on botanical nomenclature recognized by the American Association of Nurserymen.

**Legume Inoculants.** Inoculants for treating legume seeds shall be a standard culture of nitrogen fixing bacteria that is not more than one year old. Each inoculant shall be the specific culture required for each legume. It shall be supplied only from manufacturers licensed to sell legume inoculants in New York State.

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**Packaging.** Seeds shall be furnished and delivered in labeled containers or bags that are acceptably sealed or sewn tight.

When seeds are to be accepted by certification, they may be mixed prior to delivery.

When sampling and testing is specified, seeds shall not be sown until written approval is issued. Approved seeds may be mixed prior to delivery."

**Labeling.** All seed and seed labels shall be in accordance with State and Federal Laws, Rules and Regulations, including Article 9 Section 137 of the Agriculture and Markets Law.

### Sampling and Testing

**1. Certification.** Seeds will be accepted on the basis of certification unless otherwise specified in the contract documents. The certification shall consist of the label that must be attached to each container of seed in accordance with the provisions of the New York State Agriculture and Markets' Law. Seeds will not be accepted by certification unless the test dates shown on the seed container labels are within the same calendar year that the seeds are sown.

Seeds will not be accepted if seed container labels are removed prior to the time of sowing nor will seeds be accepted if container labels have been altered, are obliterated or are otherwise illegible.

**2. Sampling and Testing.** Seeds will be subject to sampling and testing when specified in the contract documents and/or whenever the Engineer determines that seed damage or deterioration may have occurred as a result of handling, transit or storage.

Seeds specified for sampling and testing, and other seeds to be sampled and tested as determined by the Engineer, shall not be sown until test results are received and written approval is issued.

Sampling shall be done by a representative of the New York State Department of Transportation. Testing shall be done by the Department of Seed Investigations, New York State Agricultural Experiment Station, Geneva, New York, and the test results obtained will be considered final.

Tolerances established by the Agricultural Experiment Station will be used to determine if the seeds conform to the specifications.

**BASIS OF ACCEPTANCE.** The seeds shall meet the minimum specified requirements regardless of the guarantee of qualities or dates of testing and after the application of tolerances approved by the Department of Seed Investigations, New York State Agricultural Experiment Station, Geneva, New York. Seed that has become wet, moldy or otherwise damaged in transit or storage will not be acceptable. After delivery to the Contractor, seed shall be stored so that it is protected from damage or deterioration from any source. Provisional acceptance of seeds must be obtained before the seeds are sown. Final acceptance may be subject to the results of official sampling and testing. The Contractor shall furnish the vendor with the specifications for the material."

### Page 7-108

Under §713-12 CHEMICAL MULCH BINDERS, *delete* the entire section and *replace* it with the following:

#### "713-12 MULCH ANCHORAGE

**SCOPE.** This specification covers the material requirements for mulch anchorage.

**MATERIAL REQUIREMENTS.** Mulch anchorage shall be approved non-staining, commercially available products that are specifically formulated for the purpose of anchoring or tacking hay or straw mulches.

The materials shall be mixed and applied in accordance with the manufacturer's instructions.

**Packaging.** The materials shall be furnished in the manufacturer's standard containers with the name of the material, the manufacturer's name, and the instructions for mixing and application appearing on each container.

The Engineer shall reject any materials that have become wet, caked or otherwise unfit for use.

**BASIS OF ACCEPTANCE.** The basis of acceptance shall be the manufacturer's product label or product literature that indicates compliance with this specification.

The Department reserves the right to sample and test this material subsequent to delivery at the project site."

### Page 7-109

Under §713-21 COOKING GRILL *delete* the entire subsection and *replace* it with the following: "713-21 VACANT"