SECTION 02920

SOIL PREPARATION

PART I - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Ripping
   2. Fertilizer
   3. Soil Conditioner
   4. Fine Grading

B. Related Sections:
   1. SECTION 02815 - Irrigation Systems
   2. SECTION 02932 – Bluegrass Sodding
   3. SECTION 02931 – Native Grasses Seeding
   4. SECTION 02930 – Bluegrass Seeding

1.2 SUBMITTALS

A. Quality Control Submittals:
   1. Certificates: State, federal and other inspection certificates shall accompany invoice for materials showing source or origin. Submit to Owner prior to acceptance of material.

1.3 DELIVERY, STORAGE AND HANDLING

A. General: Comply with Section 01600

B. Fertilizer: Deliver inorganic or chemical fertilizer to site in original unopened containers bearing manufacturer's guaranteed chemical analysis, name, trade name, trademark and conformance to state law, bearing name and warranty of producer.

C. Notify Owner of delivery schedule in advance so material can be inspected upon arrival at project site. Immediately remove unacceptable material from project.
1.4 PROJECT/SITE CONDITIONS

A. General: Do not perform work when climate and existing site conditions will not provide satisfactory results.

B. Vehicular accessibility on site shall be as directed by the Campus Landscape Architect. Repair damage to prepared ground and surface caused by vehicular movement during work under this section to original condition at no additional cost to the Owner. All damage incurred outside of construction limits due to vehicle or access traffic will be repaired to the same standards listed below. Coordinate access with the University of Colorado Boulder Project Manager.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

A. Topsoil: Remove existing top 12” of soil from site. Replace soil with 12” of new approved top soil in all proposed landscape areas including landscape beds.

B. Soil Conditioner: A-1 Organics Pro Gro II Organic Compost or approved equal to be sued for all areas requiring soil amendment. Alternates to be approved by the Campus Landscape Architect.

C. First Application Fertilizer to all landscape areas: Apply Richlawn 5-3-2 or approved equal at a rate of 1lb of Nitrogen/1000 sq. Ft. tilled to a depth of 6”

PART 3 - EXECUTION

3.1 EXAMINATION

A. General: Verify that existing site conditions are as specified and indicated before beginning work under this Section.

1. Grades: Inspect to verify rough grading is within +0.1 foot of grades indicated and specified.

2. Damaged Earth: Inspect to verify that earth rendered unfit to receive planting due to concrete, water, mortar, limewater or any other contaminant dumped on it has been removed and replaced with clean earth from a source approved by the Campus Landscape Architect.

B. Unsatisfactory Conditions: Report in writing to General Contractor with copy to Owner.

C. Acceptance: Beginning of installation means acceptance of existing conditions
3.2 PREPARATION

A. Protection:

1. Contractor shall locate sewer, water, irrigation, gas, electric, phone and other pipelines, conduits or utilities prior to commencing work.

2. Contractor shall be responsible for proper repair to landscape, utilities, walls, pavements and other existing site improvements damaged by operations under this section.

B. Weed Control: Remove weeds by removing top 12” of existing soil. Do not remove soil within tree/plant protection zones. Take care to insure that removal of soil and weeds is done in a fashion as not to contaminate surrounding soil with existing weed/weed seed. Use of herbicide in any form must be approved in writing with the Campus Landscape Architect.

C. Surface Grade: Remove weeds, debris, clods and rocks larger than 1/2”. Dispose of accumulated debris at direction of Campus Landscape Architect.

D. Runoff: Take measures and furnish equipment and labor necessary to control the flow, drainage, and accumulation of water. Insure that all water will run off the grades.

E. Erosion Control: Take measures and furnish equipment and labor necessary to control and prevent soil erosion, blowing soil and accumulation of wind-deposited material on the site throughout duration of work.

3.3 INSTALLATION

A. Soil Amendment:

1. Evenly distribute Pro Gro II and Richlawn 5-3-2 to landscape areas at the following rates:

   a. Pro Gro II will be applied at a rate of 4 cu. Yds. Per 1,000 sq.ft to all sod and seed areas

   b. Richlawn 5-3-2 will be applied at a rate of 1lb nitrogen/ 1000 sq.ft to all sod and seed areas

2. After applying soil conditioner and fertilizer, thoroughly till area to depth of 6” minimum by plowing, harrowing, or disk ing until soil is well pulverized and thoroughly mixed.
B. Fine Grading in all Landscape Areas:

1. Do fine grading for areas prior to planting.

2. For ground surface areas surrounding buildings to be landscaped, maintain required positive drainage away from buildings.

3. Establish finish grades to within 0.04 foot of grades indicated.
   a. Sod areas: Allow 1.25" for sod.

4. Noxious weeds or parts thereof shall not be present in the surface grade prior to landscaping.

5. Prior to acceptance of grades, hand rake to smooth, even surface free of debris, clods, rocks, and vegetable matter greater than 1/2".

3.4 NOTIFICATION AND INSPECTION

A. Inspection: Provide notice to Campus Landscape Architect requesting inspection at least 7 days prior to anticipated date of completion.

B. Deficiencies: Campus Landscape Architect will specify deficiencies to Contractor who shall make satisfactory adjustments and shall again notify Campus Landscape Architect for final inspection.

3.5 CLEANING

A. General: Remove debris and excess materials from site. Clean out drainage inlet structures. Clean paved and finished surfaces soiled as a result of work under this Section, in accordance with direction given by Campus Landscape Architect.

3.6 PROTECTION

A. General: Provide and install barriers as required and as directed by Campus Landscape Architect to protect completed areas against damage from pedestrian and vehicular traffic until acceptance by Owner. Contractor is not responsible for malicious destruction caused by others.

END OF SECTION 02920