

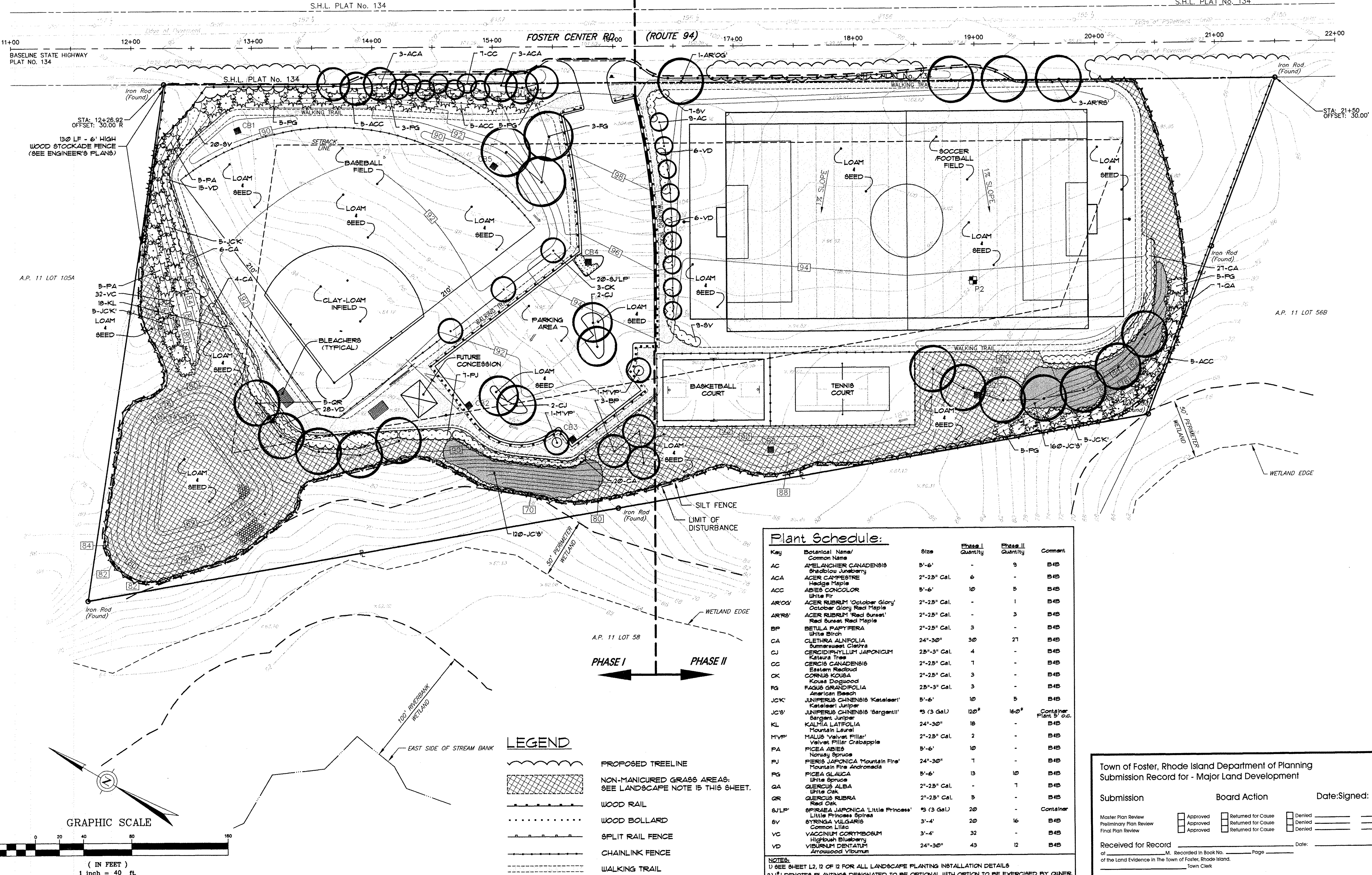
LANDSCAPE NOTES:

- GUARANTEE THAT, UPON COMPLETION AND FINAL ACCEPTANCE, LANDSCAPE PLANTINGS CONFORM TO REQUIREMENTS OF CONTRACT DOCUMENTS. PROVIDE A WARRANTY FOR TREE PLANTINGS FOR A MINIMUM OF ONE (1) YEAR, INCLUDING ONE (1) CONTINUOUS GROWING SEASON. COMMENCE WARRANTY ON DATE IDENTIFIED IN THE 'CERTIFICATE OF FINAL COMPLETION'. REPLACEMENTS: PLANTS OF SAME SIZE AND SPECIES AS SPECIFIED, PLANTED IN THE NEXT GROWING SEASON, WITH NEW WARRANTY AND EXTENDED MAINTENANCE SERVICE COMMENCING ON THE DATE OF REPLACEMENT.
- PLANT MATERIALS SHALL BE OF SIZE AND CALIBER REQUIRED AND CONFORM TO THE REQUIREMENTS DESCRIBED IN THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERMEN.
- PLANTS OF OTHER KINDS THAN THOSE NAMED IN THE PLANT SCHEDULE SHALL NOT BE ACCEPTED WITHOUT APPROVAL. REPLACEMENT PLANTS LARGER IN SIZE THAN EXISTING MAY BE USED IF APPROVED BY THE A/E, PROVIDED USE OF LARGER PLANTS DOES NOT INCREASE CONTRACT PRICE.
- A PROFESSIONAL HORTICULTURIST/NURSERMAN SHALL BE CONSULTED TO DETERMINE THE PROPER TIME TO MOVE AND INSTALL PLANT MATERIAL SO THAT STRESS TO THE PLANT IS MINIMIZED. PLANTING OF DECIDUOUS MATERIAL MAY BE CONTINUED DURING WINTER MONTHS PROVIDED THERE IS NO FROST IN THE GROUND AND FROST-FREE TOPSOIL PLANTING MIXTURES ARE USED.

- UNLESS OTHERWISE APPROVED BY THE A/E, ALL PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES AND SHALL HAVE BEEN GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS.
- SET PLANTS PLUMB AND AT SUCH A LEVEL THAT AFTER SETTLEMENT THEY BEAR THE SAME RELATION TO THE SURROUNDING GROUND AS THEY BORE TO THE GROUND FROM WHICH THEY WERE DUG. SETTLE BACKFILL MATERIAL FOR PLANTS THOROUGHLY & PROPERLY, BY FIRING OR TAMPING ACCOMPANY BACKFILLING WITH THOROUGH WATERING UNLESS OTHERWISE APPROVED. FORM SAUCER CAPABLE OF HOLDING WATER AROUND INDIVIDUAL PLANTS.
- FERTILIZE SHRUB BEDS WITH 10-6-4 FERTILIZER AT THE RATE OF 3 POUNDS PER 100 SQUARE FEET OF SURFACE AREA, BROADCAST. APPLY THE FERTILIZER UNIFORMLY TO THE SURFACE BEDS AND WORK INTO THE UPPER TWO (2) INCHES OF SOIL. FERTILIZE INDIVIDUAL TREES AT THE RATE OF ONE (1) AGRIFORM PELLETT PER INCH OF TREE DIAMETER (FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS). APPLY A SECOND APPLICATION OF FERTILIZER TO ALL PLANT ITEMS AT THE SAME SPECIFIED RATES OVER THE MULCH AT THE END OF AN EIGHT WEEK PERIOD.

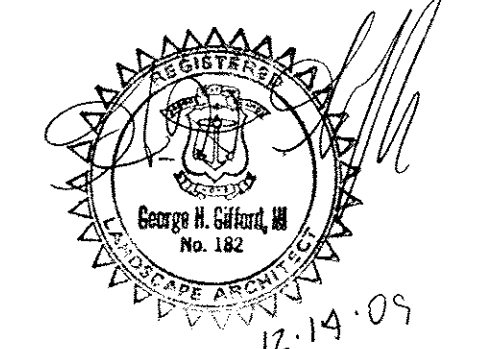
- CONTAINER GROWN MATERIALS: REMOVE PLANT FROM CONTAINER AND 'BUTTERFLY' ROOT BALL OR OTHERWISE SPREAD OUT ROOTS ON SETTING MOUND. BACKFILL SHALL BE SIFTED THROUGH THEM AND SOLIDLY FIRMED.
- AFTER PLANTING PRUNE ONLY BROKEN OR DEFORMED BRANCHES AND IN SUCH MANNER AS TO PRESERVE NATURAL CHARACTER OF PLANT.
- IMMEDIATELY AFTER PLANTING, STAKE TREES OVER FIVE (5) FEET AS INDICATED ON DETAIL DRAWING OR APPROVED BY THE OWNERS REPRESENTATIVE. REMOVE STAKES AT THE END OF GUARANTEE PERIOD.
- MULCH SHALL BE APPLIED A MINIMUM OF THREE (3) INCHES IN DEPTH IN ALL PLANTING BEDS, AS INDICATED ON THE DRAWINGS.
- THE PLANTS SHALL BE WATERED IMMEDIATELY FOLLOWING PLANTING, PREFERABLY WHEN TWO THIRDS OF THE BACKFILL HAS BEEN PLACED SO ALL AIR POCKETS ARE REMOVED AND THE PLANT PROPERLY SET. ADDITIONAL WATERING SHALL BE MADE AT LEAST ONCE EVERY THREE (3) WEEKS UNLESS OTHERWISE DIRECTED UNTIL FINAL ACCEPTANCE OF THE PLANT MATERIAL.

- INSTALL 'UTE MESH' EROSION CONTROL FABRIC WHERE FINAL GRADES ARE 3:1 (33%) OR GREATER PER MANUFACTURER'S INSTRUCTIONS.
- UNLESS OTHERWISE SPECIFIED, CONTRACTOR TO LOAM AND SEED ALL DISTURBED AREAS.
- SEEDING NOTES:
a) USE 'SUPERINTENDENT'S SEED MIX' AS AVAILABLE THROUGH ALLENS SEED STORE, INC. OR APPROVED EQUAL FOR ALL MANICURED AND SPORTS FIELD AREAS.
b) USE 'MEADOW GRASS MIX' FOR ALL NON-MANICURED GRASS AREAS:
20% KENTUCKY BLUEGRASS 10% RED CLOVER
20% TETRAPOLOID PERENNIAL RYEGRASS 10% ALFALFA
15% CLIMAX TIMOTHY 10% BIRD-FOOT TREFOIL
10% ORCHARDGRASS 5% LADINO CLOVER
- TREE STAKING NOTE: ANY TREE STAKING APPARATUS MUST BE REMOVED NO LATER THAN ONE YEAR (1) AFTER INSTALLATION.
- TREE PRUNING NOTE: STREET TREES SHOULD BE PRUNED TO MAINTAIN A MINIMAL BRANCH HEIGHT OF 8' WITHIN TWO (2) YEARS OF INSTALLATION OF THE TREE.
- LANDSCAPE ESTABLISHMENT AND MAINTENANCE NOTE: CONTRACTOR SHALL ENSURE THAT ALL LAWN AREAS AND PLANTINGS ARE FULLY ESTABLISHED AND ACCEPTABLE TO THE OWNER'S REPRESENTATIVE PRIOR TO RELINQUISHING THEIR RESPONSIBILITIES FOR MAINTENANCE OF THESE AREAS.



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PROJECT TITLE:
PROPOSED YOUTH ATHLETIC FIELDS

PLAT MAP 11, LOT 57
ZONING DISTRICT: AR
AGRICULTURAL/RESIDENTIAL DISTRICT

FOSTER CENTER ROAD (ROUTE 94)
FOSTER, RHODE ISLAND

PREPARED FOR:
TOWN OF FOSTER
181 HOWARD HILL ROAD
FOSTER, RHODE ISLAND
02825

DRAWING TITLE:
LANDSCAPE PLAN

DATE: OCTOBER 2009
SCALE: 1" = 40'

DWG. NAME:
231.682 Landscape Plan_R1.dwg

REVISIONS

NUMBER	REMARKS	DATE
1	TOWN COMMENTS	12/07/09

DATE	SCALE
OCTOBER 2009	1" = 40'

DRAWING NUMBER:
L1

SHEET: 11 OF 12

AGENCY REVIEW SUBMISSION

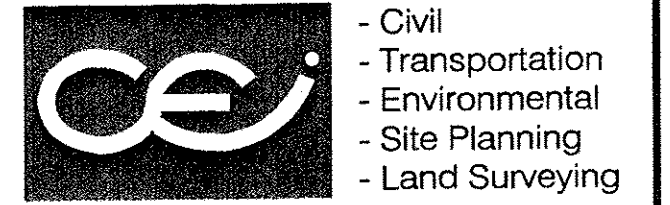
Town of Foster, Rhode Island Department of Planning
Submission Record for - Major Land Development

Submission: _____ Board Action: _____ Date Signed: _____

Master Plan Review: Approved Returned for Cause Denied
Preliminary Plan Review: Approved Returned for Cause Denied
Final Plan Review: Approved Returned for Cause Denied

Received for Record: _____ Date: _____

of _____ M. Recorded in Book No. _____ Page _____
of the Land Evidence in the Town of Foster, Rhode Island.
Town Clerk

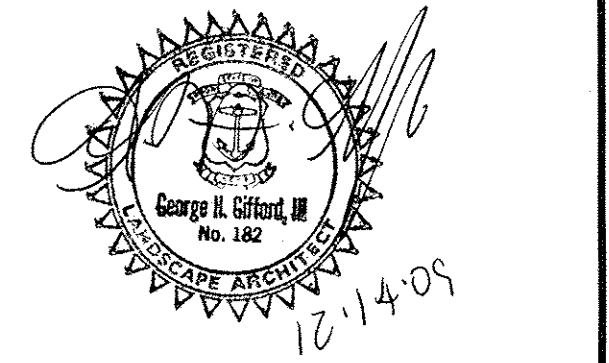


- Civil
- Transportation
- Environmental
- Site Planning
- Land Surveying

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PROJECT TITLE:

PROPOSED YOUTH ATHLETIC FIELDS

PLAT MAP 11, LOT 57
ZONING DISTRICT: AR
AGRICULTURAL/RESIDENTIAL DISTRICT

FOSTER CENTER ROAD (ROUTE 94)
FOSTER, RHODE ISLAND

PREPARED FOR:

TOWN OF FOSTER

181 HOWARD HILL ROAD
FOSTER, RHODE ISLAND
02825

DRAWING TITLE:

LANDSCAPE DETAILS

DATE: OCTOBER 2009 SCALE: AS SHOWN

DWG. NAME: 231.682 Landscape Plan_R1.dwg

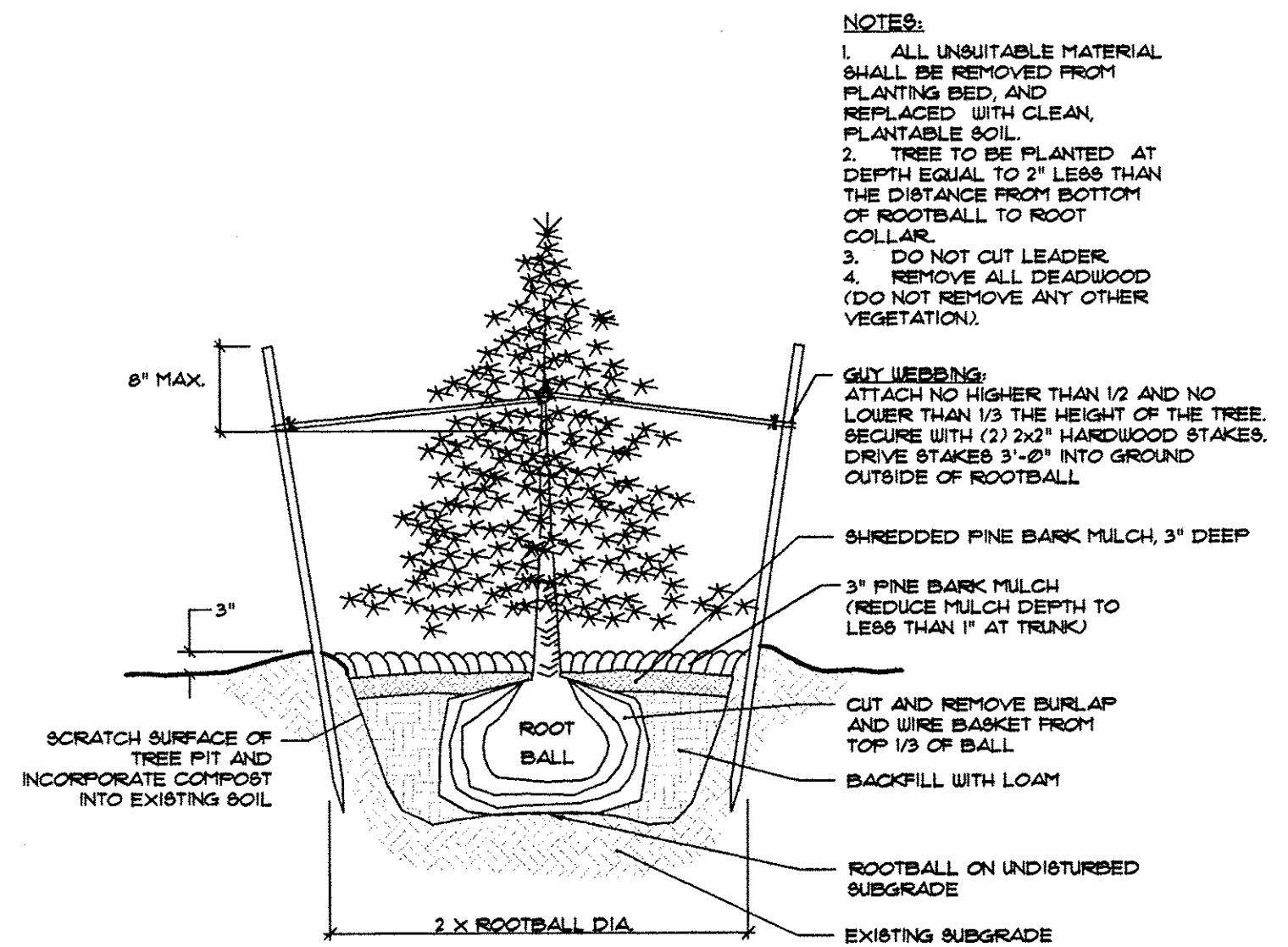
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△	1	TOWN COMMENTS	12/07/09

DRAWING NUMBER

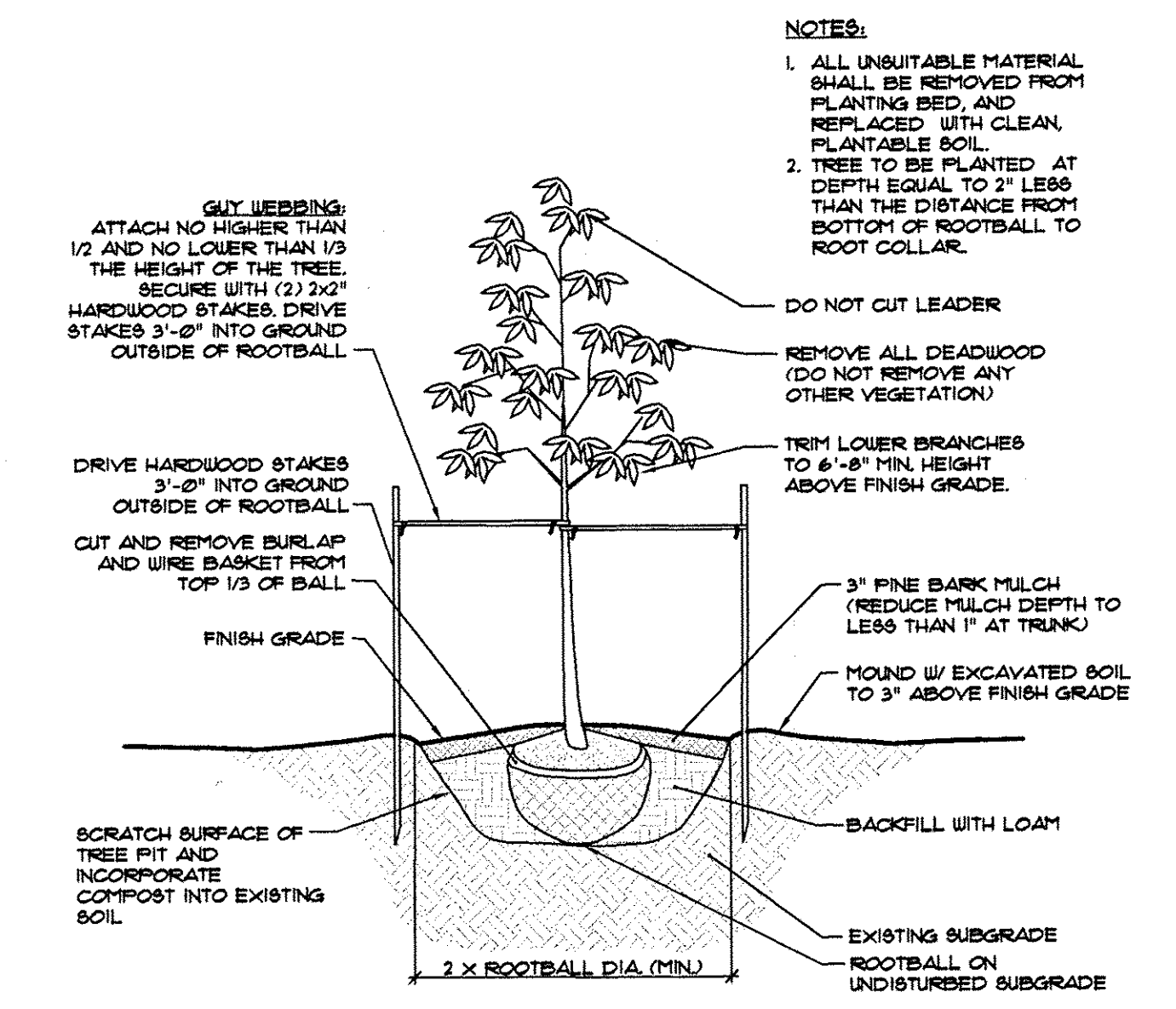
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SHEET: 12 OF 12

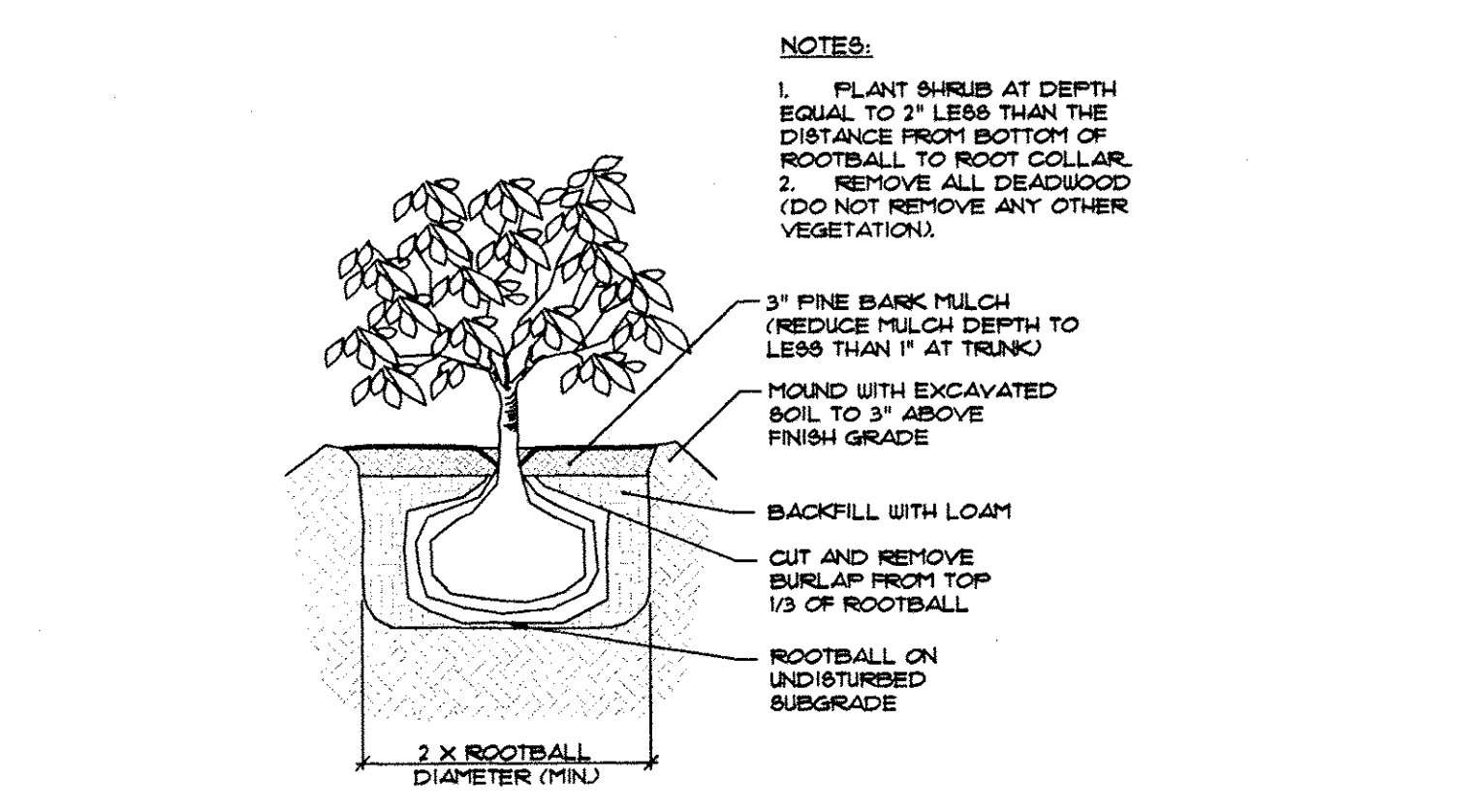
AGENCY REVIEW SUBMISSION



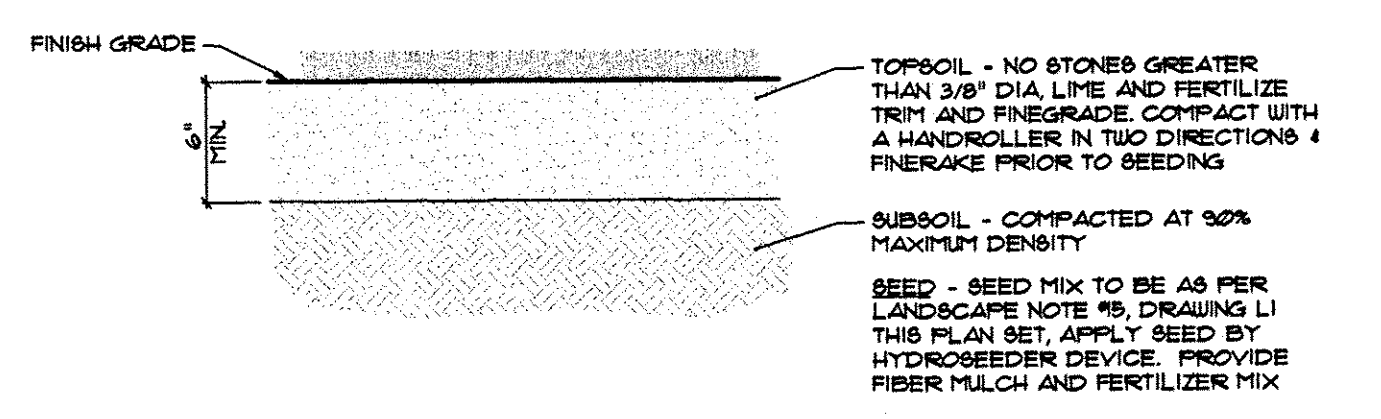
1 EVERGREEN TREE PLANTING AND STAKING
NOT TO SCALE



2 DECIDUOUS TREE PLANTING AND STAKING
NOT TO SCALE



3 SHRUB PLANTING
NOT TO SCALE



4 LOAM AND SEED
NOT TO SCALE

Town of Foster, Rhode Island Department of Planning
Submission Record for - Major Land Development

Submission	Board Action	Date: Signed:
Master Plan Review	Approved	Returned for Cause
Preliminary Plan Review	Approved	Returned for Cause
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Received for Record _____ Date: _____
of _____ M. Recorded in Book No. _____ Page _____
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_____ Town Clerk

SECTION 02901**LOAMING AND SEEDING****PART 1 GENERAL****1.01 SCOPE**

- A. This section of the specification covers all labor, materials, and equipment necessary to do all loaming, seeding and related work as indicated on the drawings and as herein specified. All lawns disturbed by the Contractor's operations shall be repaired as herein specified.

1.03 PROTECTION OF WORK

- A. For a particular source of loam, the Engineer may require the Contractor to send approximately ten (10) pounds of loam to an approved testing laboratory and have the following tests conducted:
1. Organic concentration
 2. pH
 3. Nitrogen concentration
 4. Phosphorous concentration
 5. Potash concentration
- B. These tests shall be at the Contractor's expense. Test results, with soil conditioning and fertilizing recommendations, shall be forwarded to the Engineer.

1.04 SUBMITTALS

- A. Shop Drawings and/or brochures shall be submitted for all items furnished in accordance with the provisions of the General Conditions.
- B. Submittals required under this section include, but are not limited to, manufacturer's information detailing for the following:
1. Seed mixes.
 2. Fertilizers.
 3. Mulch material.
 4. Slope protection material (if required).
 5. Origin of loam.
- C. Six (6) sets of test results shall be submitted to the Engineer for review.

PART 2 MATERIALS**2.01 LOAM**

- A. Loam shall be a natural, fertile, friable soil, typical of productive soils in the vicinity, obtained from naturally well-drained areas, neither excessively acid nor alkaline, and containing no substances harmful to grass growth. Loam shall not be delivered to the site in frozen or muddy condition and shall be reasonably free of stumps, roots, heavy or stiff clay, stones larger than one (1) inch in diameter, lumps, coarse sand, noxious weeds, sticks, brush or other litter.
- B. The loam shall contain not less than five (5) percent nor more than twenty (20) percent organic matter as determined by the loss of weight by ignition of oven-dried samples. Test samples shall be oven-dried to a constant weight at a temperature of 230 degrees F.

2.02 LIME

- A. Lime shall be standard commercial ground limestone containing at least fifty (50) percent total oxides (calcium oxide and magnesium oxide), and fifty (50) percent of the material must pass through a 100 mesh screen with ninety-eight (98) percent passing a 20 mesh screen.

2.03 FERTILIZER

- A. Fertilizer shall be commercial fertilizer, 10-10-10 fertilizer mixture containing at least forty (40) percent of organic nitrogen. It shall be delivered to the site in the original sealed containers, each showing the manufacturer's guaranteed analysis. Fertilizer shall be stored so that when used it will be dry and free flowing. No fertilizer shall be used which has not been marketed in accordance with State and Federal Laws, relating to fertilizers.

2.04 MULCH

- A. Hay Mulch - Hay Mulch shall consist of mowed and properly cured grass, clover or other acceptable plants. No salt hay shall be used.
- B. Straw Mulch - Straw Mulch shall consist of stalks or stems of grain after threshing.
- C. Wood Fiber Mulch - Wood Fiber Mulch shall consist of wood fiber produced from clean, whole uncooked wood, formed into resilient bundles having a high degree of internal friction and shall be dry when delivered to the project.

2.05 SEED

- A. Seed shall be of an approved mixture, the previous year's crop, clean, high in germinating value, a perennial variety, and low in weed seed. Seed shall be obtained from a reliable seed company and shall be accompanied by certificates relative to mixture purity and germinating value.
- B. Seed mix shall meet the material specifications of RIDOT M.20.08.3 slope mix and M.18.09.8 wild flower mix.

2.06 SLOPE EROSION PROTECTION

- A. Erosion control blanket shall be one hundred percent (100%) degradable plastic mesh with one hundred percent (100%) degradable straw or straw/coconut fill. Fill shall be held together by degradable fastening. Weight shall be 0.50 lb/sq. yd. Erosion control blankets shall be applied parallel to direction of water flow. The erosion control blankets shall be by North American Green, Evansville, IN or approved equal. For slopes 2:1 or greater, Model SC150 shall be used. For slopes less than 2:1, Model S150 shall be used.
- B. Six (6) inch wire staples shall be placed according to manufacturers recommendations to anchor the mesh material. Staples shall be designed to decompose.

2.07 PLANT MATERIAL

- A. All plant material shall conform in size, grade, and quality to the "AAN American Standard for Nursery Stock" as approved by the United States of America Standards Institute in effect at time of bid advertisement. All scientific and common plant names of the items specified shall conform to the edition of "Standardized Plant Names", as adopted by the American Joint Committee on Horticultural Nomenclature in effect at time of bid advertisement.
- B. All plant material shall be nursery grown, no collected material will be accepted. All plant material shall be free from all insects, pests, plant diseases, disfiguring knots, stubs, sunscald, abrasions, or cuts of the bark or any other form of injury harmful to the health of the plant material. All plant material shall comply with State and Federal Laws with respect to inspection for plant diseases and insect infestations.

PART 3 EXECUTION

3.01 SURFACE PREPARATION

- A. After approval of rough grading, loam shall be placed on areas affected by the Contractor's operations. Loam shall be at least six (6) inches compacted thickness.

- B. Lime shall be applied to bring the pH to 6.5 or, without a soil test, at the rate of 2 to 3 tons of lime per acre.
- C. Fertilizer shall be applied according to the soil test, or without a soil test, at the rate of 1,000 pounds per acre.
- D. Loam shall be worked a minimum of three (3) inches deep, thoroughly incorporating the lime and fertilizer into the soil. The loam shall then be raked until the surface is finely pulverized and smooth and compacted with rollers, weighing not over one hundred (100) pounds per linear foot of tread, to an even surface conforming to the prescribed lines and grades. Minimum depth shall be six (6) inches after completion.

3.02 SEEDING

- A. Seeding shall be done when weather conditions are approved as suitable, in the periods between April 1 and May 30 or August 15 to October 1, unless otherwise approved.
- B. If there is a delay in seeding, during which weeds grow or soil is washed out, the Contractor shall remove the weeds or replace the soil before sowing the seed, without additional compensation. Immediately before seeding is begun, the soil shall be lightly raked.
- C. Seed shall be sown at the approved rate, on a calm day by machine.
- D. One half the seed shall be sown in one (1) direction and the other half at right angles. Seed shall be raked lightly into the soil to a depth of 1/4 inch and rolled with a roller weighing not more than one hundred (100) pounds per linear foot of tread.
- E. The surface shall be kept moist by a fine spray until the grass shows uniform germination over the entire area. Wherever poor germination occurs in areas larger than three (3) sq. ft., the Contractor shall reseed, roll, and water as necessary to obtain proper germination at no additional cost to the owner
- F. The Contractor shall water, weed, cut and otherwise maintain and protect seeded areas as necessary to produce a dense, healthy growth of perennial lawn grass.
- G. If there is insufficient time in the planting season to complete the fertilizing and seeding, permanent seeding may be left until the following planting season, at the option of the Contractor or on order of the Engineer. In that event, a temporary cover crop shall be sown. This cover crop shall be cut and watered as necessary until the beginning of the following planting season, at which time it shall be plowed or harrowed into the soil, the area shall be fertilized and the permanent seed crop shall be sown as specified.

3.03 PLACING MULCH

- A. Hay or Straw Mulch shall be loosely spread to a uniform depth over all areas designated on the plans, at the rate of 4-1/2 tons per acre, or as otherwise directed.
- B. Hay or Straw Mulch may be applied by mechanical apparatus, if in the judgment of the Engineer the apparatus spreads the mulch uniformly and forms a suitable mat to control slope erosion. The apparatus shall be capable of spreading at least eighty (80) percent of the hay or straw in lengths of six (6) inches or more, otherwise it shall be spread by hand without additional compensation.
- C. Wood Fiber Mulch shall be uniformly spread over certain selected seeded areas at the minimum rate of 1,400 pounds per acre unless otherwise directed. It shall be placed by spraying from an approved spraying machine having pressure sufficient to cover the entire area in one (1) operation.

3.04 SEEDING AND MULCHING BY SPRAY MACHINE

- A. The application of lime, fertilizer, grass seed and mulch may be accomplished in one (1) operation by the use of an approved spraying machine. The materials shall be mixed with water in the machine and kept in an agitated state in order that the materials may be uniformly suspended in the water. The spraying equipment shall be so designed that when the solution is sprayed over an area, the resulting deposits of lime, fertilizer, grass seed and mulch shall be equal to the specified quantities.
- B. A certified statement shall be furnished, prior to start of work, to the Engineer by the Contractor as to the number of pounds of limestone, fertilizer, grass seed and mulch per one hundred (100) gallons of water.
- C. This statement should also specify the number of square yards of seeding that can be covered with the solution specified above. If the results of the spray operation are unsatisfactory, the Contractor will be required to abandon this method and to apply the lime, fertilizer, grass seed and mulch by other methods.

3.05 PLANT MATERIALS

- A. All plant material shall be dug and handled in accordance with the American Association of Nurseryman's Standards for nursery stock. All shipments shall comply with all nursery inspection and quarantine regulations in accordance with Federal, State, and local regulations. A certificate of inspection shall accompany each shipment.
- B. All plant material shall be kept moist, fresh, and protected against exposure to sun, wind, and freezing temperatures. Balled and burlapped plants shall have

their rootballs covered by earth, wood chips, cloth, straw, or other suitable material which shall be kept moist.

- C. All plant material with the exception of pines shall be planted during the following seasons: Spring - March 1 to June 15 and Winter – September 1 to December 1. Pines shall be planted during the following season: Spring – April 1 to May 15 and Winter – August 15 to October 15. No planting shall be performed in frozen ground or when snow covers the ground.
- D. Plant material locations shall be staked on the project site in accordance with the Plans prior to any plant pits being excavated. All staked locations shall be approved by the Engineer prior to excavation.
- E. Planting holes shall be twice the diameter of the root ball in width and equal to the depth of the root ball to the level at which it was grown in the nursery. Any excavation in excess of that required shall be replaced and compacted at eighty-five (85) percent maximum density.

3.06 INSPECTION AND ACCEPTANCE

- A. At the beginning of the planting season following that in which the permanent grass crop is sown, the seeded areas will be inspected. Any section not showing dense, vigorous growth at that time shall be promptly reseeded by the Contractor at his own expense. The seeded areas shall be watered, weeded, cut and otherwise maintained by the Contractor until the end of that planting season, when they will be accepted if the sections show dense, vigorous growth.

END OF SECTION 02901