

PART 1 - GENERAL

Fine grading and preparing lawn areas.

5. Reconditioning existing lawn areas.

6. Replanting unsatisfactory or damaged lawns.

B. Related Work Specified Elsewhere:

1. Trees and Shrubs: SECTION 329300 1.2 REFERENCES

A. Applicable Standards:

1. American Society for Testing and Materials (ASTM) - Equivalent AASHTO standards may be substituted as

1.3 SUBMITTALS

A. Certification of each seed mixture for sod, identifying the sod source, including name and telephone number of

supplier. Seed for sod must be sod quality and is to be gold tag standards with 0% other crop seed and 0% weed seed. B. Certification of each seed type for Native Grass mixture identifying the seed source, including name and telephone

number of supplier. C. Engineer has final approval of seed grower, no exceptions.

D. Qualification data for firms and persons specified in the "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and address of architects

D. Post-fertilization: Apply fertilizer to lawn after first mowing and when grass is dry. and owners, and other information specified.

E. Material test reports from qualified independent testing agency indicating and interpreting test results relative to

compliance of the following materials with requirements indicated.

1. Agronomic and biological analysis of existing surface soil.

during times that turf planting is in progress.

2. Agronomic and biological analysis of all imported topsoil F. Maintenance instructions recommending procedures to be performed by Owner for maintenance of landscaping during an entire year. Submit before expiration of required maintenance periods.

.4 QUALITY ASSURANCE

A. Qualifications: A qualified subcontractor shall employ or provide a qualified installation manager who meets any or 2.2 LIMITED SOIL AMENDMENTS all of the required qualifications; 1. Bachelor of Science Degree in Horticulture, Botany, Soil Physics, Agronomy, General Agriculture, Agricultural

or Biological Engineering, or a related field. 2. An individual with field experience as approved by the Landscape Architect or Registered Engineer.

B. Installer Qualifications: Engage an experienced Installer who has completed landscaping work similar in material, design, and extent to that indicated for this Project and with a record of successful turf establishment.

1. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on the Project site

B. Compost: Well-composted, stable and weed-free organic matter, pH range of 5.5-8; moisture content 35-55 percent by weight; 100 percent passing through 3/4-inch sieve; soluble salt content less than 4 decisiemens/m; not exceeding 0.5 percent inert contaminants and free of substances toxic to plantings.

2.3 GRASS SEED

C. Water: Potable.

specified maintenance periods to provide required maintenance from date of Substantial Completion. B. Weather Limitations: Proceed with work only when existing and forecast weather conditions are suitable for work.

MAINTENANCE A. Lawns/turf areas: Begin maintenance of turfgrass immediately after each area is planted and continue until acceptable

establishment, but for no less than the following periods: 1. Seeded Lawns: 90 days after date of Substantial Completion.

B. Maintain and establish lawns by watering, fertilizing, weeding, mowing, trimming, replanting and other operations C. Watering- Subcontractor shall be responsible of watering the sod as required by this Specification. Subcontractor may use irrigation system to accomplish watering. Subcontractor shall be responsible for coordinating with irrigation 2.5 MYCORRHIZAL INOCULANT

contractor for scheduling of irrigation system to provide required water needs.

A. Standard Topsoil: ASTM 5268, pH range 5.5 to 7. Free of stones 1 inch or larger in any dimension, and other extraneous materials harmful to plant growth.

1. Topsoil Source: Reuse surface soil stockpiled on the site where available. Verify suitability of surface soil to produce topsoil meeting requirements and amend when necessary. Supplement with imported topsoil when PART 3 quantities are insufficient. Imported topsoil shall meet the requirements of this specification for composition. Clean all topsoil of roots, plants, sods, stones, clay lumps, and other extraneous materials harmful to plant 3.1 EXAMINATION

A. Herbicides: EPA registered and approved, of type recommended by manufacturer and approved by the Landscape

A. Protect structures, utilities, sidewalks, pavements, and other facilities, trees, shrubs, and plantings from damage caused by planting operations. B. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water

A. Dispose of any growth, rocks, or other obstructions which might interfere with tilling, seeding, sodding, or later

D. Cover Crop: As approved by Landscape Architect, Contractor shall submit mix for approval.

A. Post Seeding Commercial fertilizer of neutral character, with some elements derived from organic sources, containing not less than 1 lbs. of actual nitrogen per 1,000 square feet of lawn area. Fertilizer shall be applied per manufacturers

B. Commercial Starter Fertilizer: Prior to the use of a starter fertilizer, the contractor shall perform a soil test and amend soil as required to ensure optimum growth performance. Starter fertilizer shall be applied per manufacturers recommendations

C. Deliver to site in labeled bags or containers.

The Subcontractor shall utilize an organic, mycorrhizal inoculant for soil prep. The material shall be granular and applied per manufacturer's recommendation. M-Roots w/ Mycorrhiza or approved equal. For exact finish, insert names of coating manufacturers and products.

2.6 STRAW MAT A. Provide a biodegradable single net, two sided organic straw mat with functional longevity of 10-12 months by Greenfix Amerca, Product WS072 Double Net Straw or Approved Equal.

B. Utilize Straw Mat for dormant seeding and on slopes greater than 4:1.

A. Examine areas to receive lawns for compliance with requirements and for conditions affecting performance of work of this Section. Do not proceed with installation until unsatisfactory conditions have been corrected.

runoff or airborne dust to adjacent properties and walkways.

3.3 SOIL PREPARATION

3. Clean surface soil of roots, plants, sod, stones, clay lumps, and other extraneous materials harmful to plant

4. Remove waste material, including grass, vegetation, and turf, and legally dispose of it off the Owner's property. SEEDING NEW LAWNS:

A. Do not use wet seed or seed which is moldy or otherwise damaged in transit or storage. B. Sow seed with a Brillion type seeding machine or where applicable and restricted by steep slopes or other areas not accessible to the seeding machine, broadcast or drop seed methods may be used. Do not broadcast or drop seed when

wind velocity exceeds 5 mph. Evenly distribute seed by sowing equal quantities in 2 directions at right angles to each other, and 3 directions in high maintenance areas, as directed by the Engineer.

C. Sow not less than rate of 8 pounds per 1,000 square feet. D. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with fine spray.

E. Protect seeded slopes exceeding 1:4 against erosion with erosion-control blankets installed and stapled according to manufacturer's recommendations. F. Protect seeded areas with slopes less than 1:4 against erosion by spreading mulch as specified after completion of

seeding operations. Spread uniformly to form a continuous blanket over seeded areas. Spread by hand, blower, or G. Seasonal Limitations:

1. Perform seeding only during the following seasons: a. Recommend seeding when temperatures ranging from 50 degrees Fahrenheit to 70 degrees Fahrenheit for a minimum 6 week period.

J. Methods of Application: 1. Dry Seeding: Spreader or seeding machine

2. Hydroseeding: Mix seed, fertilizer and pulverized mulch with water and constantly agitate. Do not add seed to water more than 4 hours before application: a. On slopes of 2 horizontal to 1 vertical or flatter, apply seed separately from fertilizer. Cover seed with soil to an average depth of 13 mm (1/2 inch) by raking or other approved methods.

A. Recondition lawn areas damaged by construction operations, including storage of materials or equipment and

movement of vehicles. Also recondition lawn areas where settlement or washouts occur or where minor regrading is

b. On slopes steeper than 2 horizontal to 1 vertical, seed and fertilizer may be applied in a single operation. Incorporation into the soil will not be required. 3.5 RECONDITIONING LAWNS:

B. Mow grass to height of 0.5 to 1.5 inches as soon as there is enough top growth to cut with mower. Remove no more than 30% of grass leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over

C. Remove weeds by pulling or chemical treatment. Preemergent herbicide shall not be applied to establishing stands. D. Perform maintenance throughout the 90 day maintenance period

Thoroughly water seeded areas daily to keep seeds moist until germination. After seeds have germinated, continue watering daily until the first mowing. Watering shall be in amounts enough to wet seeds and surrounding soil, but not cause erosion or disposition of seeds.

2. Repair any portion of the seeded surface which becomes gullied or otherwise damaged. Reseed as required.

E. Apply second fertilizer application after first mowing and when grass is dry. Use fertilizer which will provide not less n 1 lbs of actual nitrogen per 1,000 square feet of lawn area

3.10 ACCEPTANCE OF LAWNS:

A. When lawn Work is Substantially Complete, including maintenance, Landscape Architect and Owner will, upon request, make an inspection to determine acceptability: 1. Lawn Work may be inspected for acceptance in parts agreeable to Owner, provided Work offered for inspection is complete, including maintenance

2. An Acceptable stand of grass shall be considered when there is a minimum of 95% ground coverage with no bare spots greater than 12" Square. B. Replant rejected work and continue specified maintenance until re-inspected by Landscape Architect and Owner and

3.11 CLEANUP:

A. Promptly remove soil and debris created by lawn Work from paved areas. Clean wheels of vehicles prior to leaving

Site to avoid tracking soil onto surfacing of roads, walks, or other paved areas.

END OF SECTION 329200

Sheet

10/26/23

10/17/23

10/5/23

8/18/23

). DATE

AFB

Client Comments

Sidewalk Revis

Driveway Revis

City Comment

Initial Summital

REVISION

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LANDSCAPE NOTES

- 1. LOCATE UTILITIES PRIOR TO COMMENCING LANDSCAPE OPERATIONS. ALL TREES SHALL BE FIELD POSITIONED AS TO AVOID CONFLICTS WITH EXISTING AND PROPOSED UTILITIES. NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS OR OBSTRUCTIONS.
- 2. CONTRACTOR SHALL STAKE ALL PLANTING AREAS IN THE FIELD PRIOR TO PLANTING FOR APPROVAL OF THE OWNER OR THEIR REPRESENTATIVE.
- 3. QUANTITIES SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES PRIOR TO BIDDING AND SHALL BE RESPONSIBLE FOR ALL QUANTITIES FOR THEIR BID. ANY DISCREPANCIES WITH THE PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE PLAN QUANTITIES SHALL SUPERCEDE SCHEDULED QUANTITIES.
- 4. ALL PLANT MATERIAL SHALL BE SPECIMEN QUALITY AND SHALL COMPLY WITH RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 THE 'AMERICAN STANDARD FOR NURSERY STOCK'.
- 5. ALL PLANTING BEDS & NATIVE GRASS STANDS SHALL BE EDGED AS SHOWN IN PLAN.
- 6. PREPARE PLANTING BEDS AND INCORPORATE AMENDMENTS ACCORDING TO PLANS.
- 7. SHREDDED HARDWOOD MULCH, PER SPECIFICATIONS SHALL BE USED AS A THREE INCH (3") TOP DRESSING IN ALL PLANTING BEDS AND AROUND ALL TREES. SINGLE TREES AND SHRUBS SHALL BE MULCHED TO THE OUTSIDE EDGE OF THE SAUCER OR LANDSCAPE ISLAND.
- 8. ALL TREES SHALL BE STAKED PER DETAIL.
- 9. ALL PLANT MATERIAL SHALL BE INSTALLED TO ALLOW A ONE FOOT (1') CLEARANCE BETWEEN PLANT AND ADJACENT PAVEMENT.
- 10. THE LANDSCAPE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL THE SITE IS FREE OF DEBRIS CAUSED BY ON-GOING CONSTRUCTION OPERATIONS. REMOVAL OF DEBRIS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. LANDSCAPE WORK SHALL NOT BEGIN UNTIL THE LANDSCAPE ARCHITECT AND OWNER HAVE GIVEN WRITTEN APPROVAL FOR SUCH. THERE SHALL BE NO DELAYS DUE TO LACK OF COORDINATION FOR THIS ACTIVITY.
- 11. THE LANDSCAPE ARCHITECT AND OWNER SHALL APPROVE GRADES AND CONDITION OF SITE PRIOR TO SODDING/SEEDING OPERATIONS.
- 12. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED FOR OTHER PLANTINGS OR HARDSCAPE SHALL BE SEEDED WITH TURF TYPE FESCUE.
- 13. CONTRACTOR SHALL PROVIDE AN AUTOMATIC IRRIGATION SYSTEM FOR ALL SEEDED AREAS PER THE OWNER'S DIRECTION. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF PROPOSED IRRIGATION SYSTEM AND COVERAGE AREAS FOR OWNER APPROVAL PRIOR TO INSTALLATION. IRRIGATION SYSTEM SHALL PROVIDE FOR THE CONTROLLER, WEATHER SENSOR, AND REQUIRED BACKFLOW DEVICES PER STATE AND LOCAL CODES.

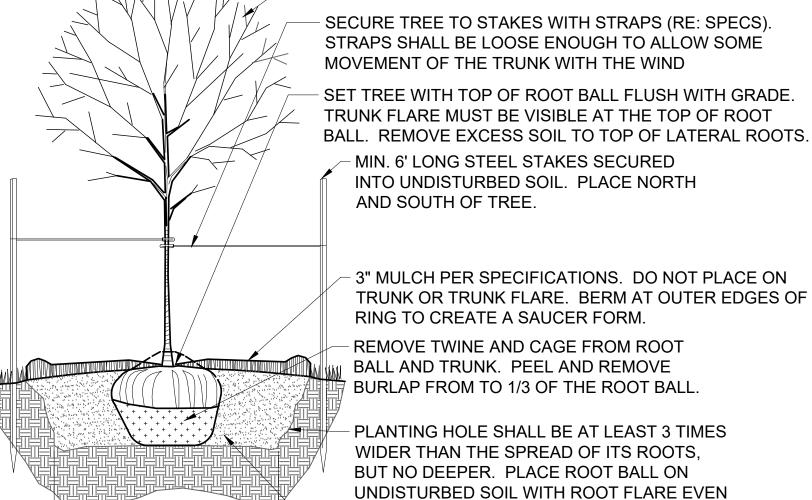
SEEDING NOTES

- 1. SEEDING SHALL OCCUR AS REQUIRED BY THE SPECIFICATIONS. SEEDING AT OTHER TIMES WILL REQUIRE A COVER CROP APPROVED BY THE ENGINEER AND CITY CODE. DORMANT SEEDING SHALL BE APPROVED BY THE ENGINEER.
- 2. GRADED AREAS SHALL PROVIDE A SMOOTH UNIFORM SLOPE, FREE FROM RILLS AND GULLEYS.
- 3. THE TOP FOUR INCHES OF SOIL SHALL BE FERTILE SOIL SUITABLE FOR SEED GROWTH.
- 4. PRIOR TO APPLICATION OF SEED, CONTRACTOR SHALL LOOSEN ALL SOILS TO A DEPTH OF ONE INCH. THE AREA SHALL BE RAKED FREE OF ALL ROCKS AND DEBRIS ACCORDING TO THE SPECIFICATION.
- 5. ALL AREAS TO BE SEEDED LOCATED ON SLOPES STEEPER THAN 4:1 (H:V) SHALL USE SPECIFIED TURF REINFORCEMENT MAT. ALL TRM SHOWN ON THE PLANS SHALL BE CONSIDERED CONCEPTUAL, CONTRACTOR TO VERIFY AND INSTALL ON ALL SLOPES EXCEEDING 4:1 AFTER FINAL GRADING IS ESTABLISHED.
- 6. ALL SEEDED ARES SHALL BE DRAGGED OR RAKED BEFORE BEING COVERED WITH THE SPECIFIED TRM. MAT SHALL BE PLACED PRIOR TO EXPOSURE TO ADVERSE WEATHER.
- 7. THE CONTRACTOR MUST PROVIDE THE OWNER'S REPRESENTATIVE DOCUMENTATION FROM THE SUPPLIER THAT EACH LOT OF SEED MEETS OR EXCEEDS THE SPECIFIED STANDARD.
- 8. ALL SEED MUST BE TESTED BY A REGISTERED SEED TECHNOLOGIST PER AOSA METHODS AND MEET ALL REQUIREMENTS ESTABLISHED BY THE STATE DEPARTMENT OF AGRICULTURE.
- 9. AFTER COMPLETION OF WORK, CONTRACTOR SHALL WATER SEEDED AREAS DAILY. SATURATING THE MAT AND UNDERLYING SEED BED. CONTRACTOR SHALL CONTINUE WATERING UNTIL PLANT ESTABLISHMENT HAS OCCURRED OR BY NOTIFICATION FROM LANDSCAPE ARCHITECT. NOT WATERING DUE TO RAIN EVENT SHALL BE DOCUMENTED AND APPROVED BY THE GENERAL CONTRACTOR. WATERING LOGS SHALL BE SUPPLIED TO THE OWNER OR ENGINEER.
- 10. CONTRACTOR SHALL PROVIDE AN AUTOMATIC IRRIGATION SYSTEM FOR ALL SEEDED AREAS PER THE OWNER'S DIRECTION. CONTRACTOR SHALL SUBMIT SHOP DRAWING OF PROPOSED IRRIGATION SYSTEM & COVERAGE AREAS FOR OWNER APPROVAL PRIOR TO INSTALLATION. IRRIGATION SYSTEM SHALL PROVIDE FOR THE CONTROLLER, WEATHER SENSOR, AND REQUIRED BACKFLOW DEVICES PER STATE AND LOCAL

AND REMOVE DEBRIS FROM SITE.



2. TREES SHALL BE INSPECTED BY OWNERS REPRESENTATIVE PRIOR TO INSTALLATION. PRUNE OUT ANY DEAD OR BROKEN BRANCHES



3 x ROOT BALL DIA.

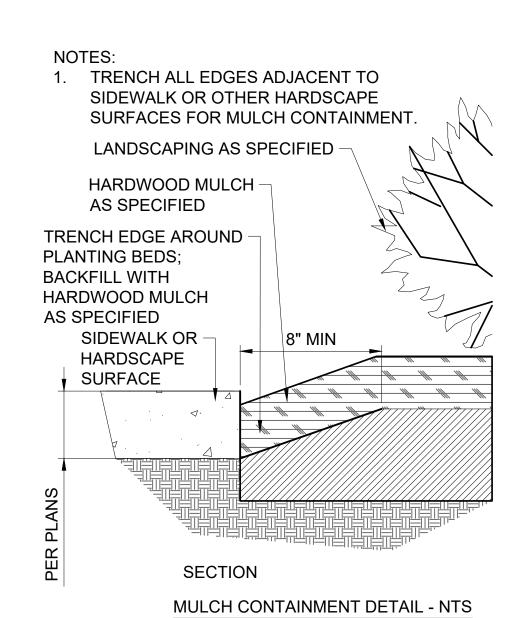
SECTION

- 3" MULCH PER SPECIFICATIONS. DO NOT PLACE ON TRUNK OR TRUNK FLARE. BERM AT OUTER EDGES OF RING TO CREATE A SAUCER FORM. REMOVE TWINE AND CAGE FROM ROOT BALL AND TRUNK. PEEL AND REMOVE

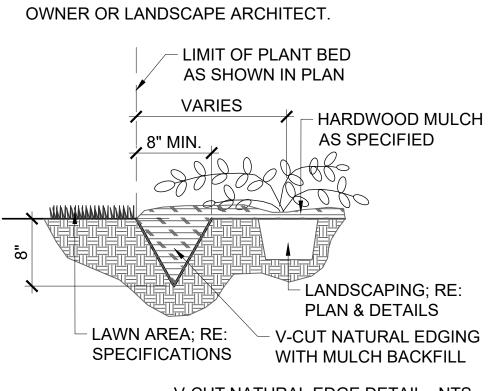
BURLAP FROM TO 1/3 OF THE ROOT BALL. PLANTING HOLE SHALL BE AT LEAST 3 TIMES WIDER THAN THE SPREAD OF ITS ROOTS,

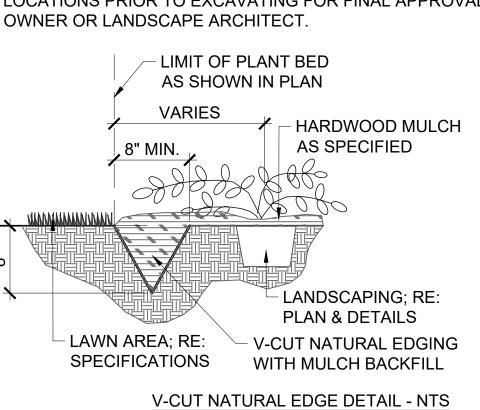
WITH OR 1" ABOVE GRADE. SCARIFY SIDES AND BOTTOM OF PIT. AMEND SOIL ACCORDING TO SPECIFICATIONS.

DECIDUOUS TREE PLANTING DETAIL - NTS



1. CONTRACTOR SHALL LOCATE AND MARK ALL PLANTBED LOCATIONS PRIOR TO EXCAVATING FOR FINAL APPROVAL BY

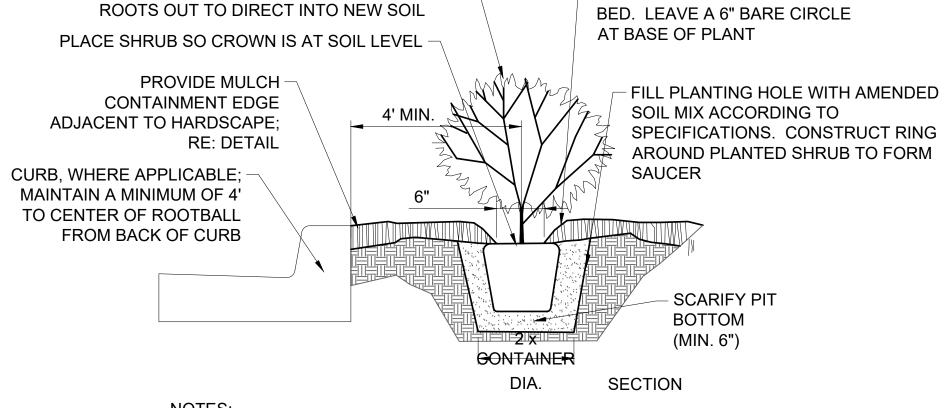




PRUNE OUT ANY DEAD OR BROKEN BRANCHES. CUT ANY GIRDLING ROOTS - INSTALL 3" OF HARDWOOD OFF CLOSE TO THE CROWN. PRY LONG MULCH THROUGHOUT PLANTING ROOTS OUT TO DIRECT INTO NEW SOIL

Free Standing Against Wall

Transformer



Free Standing

Small Box

UTILITY BOXES SHALL BE CLUSTERED AS MUCH AS POSSIBLE

TYPICAL UTILITY BOX SCREENING DETAILS - NTS

Clustered Boxes

1. REFER TO SPECIFICATIONS FOR TOPSOIL BACKFILL MIX. 2. CONTRACTOR TO WATER THOROUGHLY AFTER PLANTING

3. INSTALLATION TO BE IN ACCORDANCE WITH PLANTING SPECIFICATIONS 4. WHERE ADJACENT TO CURB, MAINTAIN THE MINIMUM OFFSET SHOWN. FOR SHRUBS LARGER THAN 4' MATURE DIAMETER, PROVIDE A GREATER OFFSET EQUAL TO 1/2 OF THE MATURE DIAMETER MINIMUM.

SHRUB PLANTING DETAIL - NTS



8/18/23 Initial Summital NO. DATE REVISION DRAWN BY CHECKED BY AFB PNC



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