

SECTION 32 90 00

PLANTING

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section is three total written pages.
 - 1. This Section covers trees, shrubs and other plantings.
- B. Related Sections:
 - 1. Section 328400 Planting Irrigation

1.2 REFERENCES

- A. American National Standards Institute (ANSI)
 - 1. ANSI Z60.1 American Standard for Nursery Stock, Latest Edition
 - 2. ANSI A300 Pruning Parts 1, 2 & 3
- B. City of Lake Elmo Standard Details:
 - 1. LP Series – Landscape
 - 2. IR Series – Irrigation
- C. Minnesota Department of Agriculture (MDA)
- D. Minnesota Department of Transportation (MnDOT)
 - 1. Standard Specifications for Construction and Materials Lab Supplemental Specifications for Construction, Latest Edition.
 - a. 3877 Topsoil Material
 - b. 3881 Fertilizer
 - c. 3896 Soil and Root Additives
- E. Minnesota Nursery and Landscape association (MNLA)

1.3 SUBMITTALS

- A. As a condition for delivery and approval of the plant stock, the Contractor shall furnish the following documentation:
 - 1. Copies of a valid nursery stock certificate registered with the Minnesota Department of Agriculture.
 - 2. A MDA Certificate of Compliance stating the species, sizes and quantities furnished, and the name and location of the original nursery growing operation.
 - 3. A MDA Certificate of Compliance stating that all plants supplied are free of neonicotinoid insecticides.
 - 4. Bills of lading for all plant stock delivered to the project site.
 - 5. Copies of permits required by State, County and Local Authorities approving transportation, handling and use of plant materials and chemicals.
- B. Provide City the following samples for review and approval:
 - 1. Planting Soil: 1-gallon sealed bag with description of material and identification of source
 - 2. Fertilizer: Description of material or product, proposed application rate, method of application and schedule of application
 - 3. Soil & Root Additives: Description of material or product, proposed application rate, method of application and schedule of application
 - 4. Mulch: 1-gallon sealed bag with description of material and identification of source

1.4 QUALITY ASSURANCE

- A. Contractor Qualifications:
 - 1. Crew Foreman shall be a MNLA Certified Professional.
 - a. Submit proof of certification.
 - 2. Contractor shall maintain at least one Crew Foreman on site at all times.

- B. Inspections: Contractor shall be responsible for all inspection of plant material required by the Public Authorities having jurisdiction, and shall secure required permits.
- C. Delivery, Storage and Handling: All plants shall be planted immediately upon arrival to the project site. No plant material is to be left overnight on the project site without being installed unless written approval from the City.
- D. Fertilizer: Fertilizer shall be delivered to the job in manufacturer's original, unopened containers, with labels intact and legible.

1.5 WARRANTY

- A. Plantings shall be subject to a full two year warranty beginning upon final written acceptance of the total Project by the City. Contractor to request City inspection upon completion of planting work to start the acceptance process.
- B. At any point during the warranty period prior to the scheduled inspection the City reserves the right to order all plant material exhibiting more than 10% crown death at any point during the warranty period and during the growing season shall be replaced within 30 days. Defective workmanship or materials as identified by the City within the two year warranty shall also be repaired or replaced with 30 days.
- C. At the conclusion of the warranty period, an inspection of plantings will be made to determine the condition of trees, shrubs and ground cover. All materials not evidencing new growth and sound health, as determined by the City will be noted. This material shall be removed promptly, and new material shall be supplied and planted within 30 days during the current growing season or at the very latest within the first 30 days of the next growing season if close to the end of the growing season when inspection takes place. All replaced plants will then start a new two year warranty period.
- D. Plants shall further be warranted to remain upright for the full two year warranty period. Plants that are found to be objectionably out of plumb, during the acceptance inspection, shall be replanted. The two year warranty shall be extended to include the next growing season after replanting.

PART 2 - PRODUCTS

2.1 TREES, SHRUBS AND PLANTINGS

- A. General: Plant materials shall meet American Standard for Nursery Stock ANSI Z60.1 latest edition. Plant materials not satisfying all requirements of this specification shall be removed by the Contractor and replaced with material as specified.
- B. Supplying: Plants of all species specified on the landscape plan shall be supplied in accordance with Minnesota Department of Agriculture requirements. The contractor shall supply plants in the exact variety, grade and size as specified in the landscape plan. No plant substitutions shall be made without the prior written authorization from the City.
- C. Quality: The City may inspect plant materials at the nursery prior to delivery.

2.2 PLANTING SOIL

- A. In conformance with the requirements of MnDOT 3877-F Boulevard Topsoil Borrow. Submit sample to City for approval.

2.3 WATER

- A. Potable (or as otherwise approved by the City) and suitable for plant growth.

2.4 FERTILIZER

- A. MnDOT Specification 3881 B.4 Type 4 Natural Based Fertilizer. Submit requested information per section 1.3 B Submittals to City for approval.
- B. MnDOT 3896C Soil and Root Additive or MnDOT 3896G Soil and Root Additive. Submit requested information per section 1.3 B Submittals to City for approval.

2.5 MULCH

- B. Shredded Hardwood Mulch:
 - 1. Commercial grade, shredded hardwood material, 100% natural, dye and color free with shredded material averaging 3 inches in length. Submit sample to City for approval.

PART 3 - EXECUTION

3.1 PLANTING TREES, SHRUBS AND OTHER PLANTINGS

- A. Plant trees, shrubs and other landscape plant materials in the locations shown on the Plans.
- B. Refer to Lake Elmo LP Series – Landscape Standard Details for additional information.
- C. The preparation of plant areas may begin at any time after the subgrade has been established.
- D. Planting Soils that are compacted after placement due to other construction activities need to be tilled prior to planting operations.
- E. Upon completion of landscape planting the construction area shall be cleared of debris, materials, and equipment, which shall be removed from the construction area.

3.2 MAINTENANCE

- A. Pruning: Follow ANSI A300 for all pruning that is required.
- B. Watering: Plants shall be watered on an as needed basis to provide healthy growth during the growing season for the warranty period.
- C. Contractor to protect and maintain all plantings and plant beds, including protection from wildlife, weeding, re-mulching, fertilization, irrigation and all other typical forms of horticultural care until the end of the warranty period as determined and approved by City.
- D. Maintenance shall immediately follow planting operations and shall continue, as applicable, during the growing season for the warranty period.

END OF SECTION