

PART 1 - GENERAL

1.1 SUMMARY:

- A. Landscape Contractor shall furnish all material and labor to install all landscape plantings of every description, as shown on the drawings and specified herein. Work included consists of but is not limited to the following:
1. Furnish, install, maintain and warranty all trees, shrubs, perennials, ornamental grasses and groundcovers.
 2. Furnish and install all shredded mulch in planting beds.
 3. Furnish and install all topsoil in planting beds.
 4. Furnish and install all planting backfill mixture in planting beds.
 5. Furnish and install all burlap tree wrap.
 6. Provide all guys, stakes and other supporting appurtenances only to maintain plants in a straight and plumb position. No initial guying or staking is required unless required by the Engineer.
 7. Provide temporary water supply, as may be necessary. No source(s) will be provided by Owner.
 8. Warranty all plant material for a period of one year from date of Substantial Completion Inspection and Acceptance.
 9. Provide initial maintenance until Substantial Completion Inspection and Acceptance.
- ~~B. Contractor's bid shall include all cost increases due to delays in construction and shall include nursery price increased for material held beyond anticipated schedule.~~

1.2 REQUIREMENTS OF REGULATORY AGENCIES:

- A. The Contractor shall provide for the protection of the public, employees and property, in accordance with the applicable requirements of Part 1926, Subpart P, "Excavation, Trenching and Shoring," CONSTRUCTION SAFETY AND HEALTH REGULATIONS (OSHA), which, by reference, is made a part of this specification including sections relative to protection of the public, trenches and excavating equipment.
- B. Comply with all Federal or State regulations concerning classification or transportation of plants and fertilizer materials.
- C. All planting procedures will conform to the accepted horticultural practices as established by the American Association of Nurserymen, Inc. (MN) Standard; American Standard of Nursery Stock (ANSI Z60.1 - 2004)

1.3 QUALITY ASSURANCE.

- A. ~~Qualifications~~
1. ~~The Contractor shall be a company specializing in landscape installation with a minimum of seven (7) years of experience on comparable projects.~~
 2. ~~The Contractor shall have an experience modification rating of less than 1.0.~~
- B. Source Quality Control
1. All landscape materials shall be from stock inspected and certified by authorized governmental agencies. The stock shall comply with governmental regulations prevailing at the supply source and the job site. The Engineer reserves the right to ask for certification by authorized governmental agencies.
 2. All landscape materials that have been treated with herbicides, pesticides, insecticides, fungicides, etc. should have been applied by a licensed applicator and been treated with products that comply with governmental regulations. The Engineer reserves the right to ask for certification.
 3. All Plant Materials are to be inspected by the Engineer at their place of growth and upon delivery for conformity to specification requirements. Such inspection shall not impair the right of rejection during progress of the work. A written request for inspection of plant material at their place of growth shall be submitted to the Engineer within forty-five (45) days after award of contract or at least thirty (30) calendar days prior to digging (whichever is sooner). This written request shall state the place of growth and quantity and size of plants to be inspected. The Engineer reserves the right to refuse inspection at this time if, in his judgment, a sufficient quantity of plants are not available for inspection. For nurseries located further than 60 miles from Bolingbrook, submit photographs for pre-inspection review.
- The plant material shall be obtained from pre-approved nurseries unless otherwise approved by the Engineer. The following nurseries are pre-approved.

1.	Beaver Creek Nursery	(815) 737-8758
2.	Beeson's McHenry County	(815) 843-6382
3.	Charles J. Fiore Co.	(847) 913-1414
4.	Clavey's Nursery	(815) 843-7778
5.	Green Glen Nursery	(815) 723-1140
6.	GRO Horticultural	(847) 668-8858
7.	Hinsdale Nursery	(630) 313-1411
8.	Kaneville Tree Farms	(630) 557-2793
9.	Kendall Hill Nursery	(815) 695-9007
10.	King Nursery	(630) 584-1171
11.	Mariani Nursery	(262) 857-3529
12.	Midwest Groundcovers	(847) 742-1790
13.	Possibility Place Nurseries	(708) 878-7202
14.	Rich's Foxwillow Pines	(815) 338-7442
15.	Stonegate Nursery	(815) 765-2771
16.	Twixwood Nursery	(269) 471-7408
17.	Wilson Nurseries	(847) 683-3700

In the event plant material is found to be unacceptable after review by the Engineer the Contractor shall pursue other sources until acceptable plant material is found, at no additional cost to the Owner. If additional nursery or site visits are required due to unacceptable inspection/reviews, the Contractor shall compensate the Engineer one thousand dollars (\$1,000.00) per day.

Selection or lack of selection at the plant source does not impair the right of the Engineer to review and reject material at the time of shipping, during installation of the work, or after the installation of the work.

C. Substitutions

1. If specified landscape material is not obtainable, notify the Engineer, who will identify alternate sources or substitutes. If substitutions are smaller in size than the specified material, credits to the base bid contract will be made based on comparable cost differentials customary for materials and sizes involved.
2. Plants shall be supplied at the minimum sizes specified. Plants larger than the minimum size may be used upon approval of the Engineer.

1.4 SUBMITTALS

- A. Nursery List: Submit nursery list that complies with the above items under Section 1.3, Quality Assurance.
- B. Samples and Product Data: Submit to the Engineer descriptions of all material proposed to be used by Landscape Contractor for the completion of his work. Delivery of material may begin only after descriptions and/or samples have been approved.
- C. Schedule
1. Upon authorization to proceed with the work, a schedule indicating the dates of each of the following items will be prepared by the Contractor and submitted to the Engineer:
 - a. Tagging of plant material in nurseries.
 - b. Staking of plant locations on the site.
 - c. Digging and preparation of plant pits and beds.
 - d. Delivery of plant material to the site.
 - e. Planting schedule.
 - f. Substantial completion of the work.
 - g. Schedule of coordinating plant installation with irrigation work.
- D. Maintenance Instructions: Upon completion of the installation, submit written recommendations for maintenance of all portions of the landscape.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. General
1. Notify the Engineer forty-eight hours in advance of all delivery times for plant material.
 2. Store materials only in locations approved by the Engineer.
- B. Packaged Materials
- Deliver packaged materials in unopened containers showing weight, analysis, and name of manufacturer. During shipment and storage on site, protect materials from breakage, moisture, heat, theft or other damage and according to manufacturer's recommendations.
- C. Plant Materials
1. Schedule shipping to minimize on site storage of plants. Stock shall not be shipped until the planting preparations have been completed.
 2. Label the size and variety of plant and securely attach to individual plants or to bundles of like variety and size.
 3. During shipment, plants shall not be bent, stacked, or bound in a manner that damages bark, breaks branches, deforms root balls, or destroys natural shape.
 4. Plant material shall be transported within enclosed trailers or covered by tarpaulin to protect the material from damage caused by drying winds, heat, freezing, or other exposures that may be harmful to the plants. Plant material arriving at the site in a damaged condition shall be rejected and removed from the site.
 5. If delays beyond the Contractor's control occur after delivery, plants shall be kept watered and protected from sun, wind, and mechanical damage; root balls shall be covered with topsoil or mulch. Container-grown stock shall not be removed from containers until planting time. Keep the roots constantly moist until planted.
 6. Handle plants at all times in accordance with the best horticultural practices. Lift balled and burlapped materials from the bottom of the ball only. Balled and burlapped plants which have cracked or broken balls shall be rejected and removed from the site.

PART 2 - MATERIALS

2.1 PLANTS:

- A. General: Refer to PLANT LIST on the drawings for specific types and quantities of plants to be furnished. Contractor shall verify all quantities on the drawings, and if discrepancies are found, the quantities shown on the drawings shall supersede the plant list.
1. Plants shall be nursery grown in accordance with good horticultural practices, as established by the American Association of Nurserymen, and grown at a Northern Illinois nursery for at least two (2) years. They shall have been root pruned within the last two (2) years. Any exceptions must be approved by the Engineer.
 2. Balled and burlapped (B&B) plants shall be freshly dug. No heeled-in plants or plants from cold storage will be accepted, unless approved by the Engineer. Plants with broken or cracked root balls will be rejected.
 3. Unless specifically noted otherwise, all plants shall be of specimen quality, exceptionally heavy symmetrical and highly knit.
 4. They shall be sound, healthy and vigorous, well branched and densely foliated when in leaf. They shall be free of disease, insect pests, eggs or larvae, and shall have healthy, well developed root systems. They shall be free from physical damage or adverse conditions that would prevent thriving with the specified result.
 5. Plants shall be of true species and variety, and shall conform to measurements specified in the plant lists, except that plants larger than specified may be used if acceptable to the Engineer. Use of such plants shall not increase the contract price. If larger plants are accepted, the ball-of-earth shall be increased in proportion to the size of the plant.

6. Caliper Measurement shall be taken at a point on the trunk 6 inches above natural ground line for trees up to 4 inches in diameter, and at a point 12 inches above the natural ground line for trees over 4 inches in diameter.
7. Pruning: Trees that have a damaged or crooked leader, or multiple leaders, unless specifically specified, will be rejected. Trees with abrasion of the bark, sunscalds, disfiguring knots, or fresh cuts of limbs over 1-1/4 inches that have not completely callused, will be rejected.
8. Plant materials shall be subject to final approval by the Engineer at the site. The Engineer reserves the right to reject any plant material that does not meet project specifications at the time of planting.

B. Topsoil

1. Salvaged topsoil from on-site clearing or excavation shall not be used as backfill for landscape planting. Only imported topsoil from an approved offsite borrow source shall be used as backfill for plantings.
2. Imported topsoil shall be fertile, friable sandy loam or loam topsoil, comprised of 20%-50% silt, 30%-60% sand and 6%-20% clay. It shall have a pH level of between 6.0 and 7.0 and an organic matter content of between 3% and 8%. It shall be free of seeds, stones, lumps, plants or their roots, sticks and extraneous matter, and shall not be delivered while in a frozen or muddy condition.
3. Before delivery of topsoil is made, a certified analysis of the topsoil, made at the Contractor's expense by a recognized soil test laboratory, shall be submitted to the Engineer. The analysis shall include the breakdown of silt, sand and clay, the pH level, the organic matter percentage as well as the type and amount of any chemicals that may be detrimental to plant life. All soil delivered may be subject to further analysis and failure of the topsoil to average up to the submitted analysis will be grounds for rejection.

C. Planting Backfill Mixture for plant pits or planting beds shall be as follows:

1. Trees and Shrubs	85% topsoil, see section 2.1B above 15% pine fines
2. Perennials and Groundcovers	75% topsoil, see section 2.1B above 25% pine fines

D. Hardwood Bark Mulch

1. Mulch shall be finely shredded and processed composted hardwood bark, free from other foreign material.

E. Burlap

1. Burlap for wrapping root-ball and trunks shall be biodegradable jute mesh not less than seven (7) ounces per square yard. Wrapping materials made from manmade fibers are unacceptable.

F. Water

1. Water supply during installation shall be the sole responsibility of the Contractor.

PART 3 - EXECUTION

3.1 JOB CONDITIONS

A. General

1. Prior to beginning work, the Contractor shall examine and verify the acceptability of the job site and notify the Engineer of unsatisfactory conditions. Do not proceed with the work until unsatisfactory conditions have been corrected or resolved.

B. Utilities

1. Contractor shall be solely responsible for determining location of all utilities. Contractor shall be responsible for obtaining site utility plans and contacting local utility locator service, and shall perform no work on site until utility locator service has marked site utilities. Perform work in a manner that will avoid possible damage. Excavate to avoid underground utilities including hand digging as required. All damage to utilities resulting from work covered in these contract documents will be repaired at the Contractor's expense and no additional cost to the Owner.

C. Planting Season

1. Plant material shall be dug and planted only during the planting season appropriate for each individual plant species. Pre-digging of plants with proper storage may extend the planting season. However, the installation of plant material outside the normal planting season shall be done only with the approval of the Engineer:
 - a. Deciduous Trees: April 1 - November 30
 - b. Deciduous Shrubs: April 15 - November 15
 - c. Perennials and Groundcovers: May 1 - October 10.

3.2 PREPARATION

A. Layout

1. Individual plant locations shall be staked on the project site by the Contractor and approved by the Engineer before any planting operations commence. The Engineer reserves the right to adjust plant material locations to meet field conditions, without additions to the base contract price.
2. Accurately stake plant material according to the drawings. Where location or spacing dimensions are not clearly shown, request clarification from the Engineer.
3. If obstructions are encountered that are not indicated, do not proceed with planting operations until alternate plant locations have been selected and approved in writing by the Engineer.

FILE NAME = \$FILES

USER NAME = \$USER\$	DESIGNED -- WALSH	REVISED -- 01/27/12 PER IDOT
PLOT SCALE = NONE	DRAWN -- WALSH	REVISED -- 04/11/12 PER IDOT
PLOT DATE = \$DATE\$	CHECKED -- WALSH	REVISED -- 05/14/12 PER IDOT
	DATE -- 06/29/11	REVISED -- 12/04/12 PER IDOT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LANDSCAPE SPECIFICATIONS

SCALE: NONE	DRAWING NO. 21 OF 33	STA. N/A TO STA. N/A	F.A.P. RTE. 0870	SECTION 08-00049-00-LS	COUNTY WILL	TOTAL SHEETS 35	SHEET NO. 21
						ILLINOIS CONTRACT NO. 63714	