C.O.W. Project Number	O.C.A. Number	Sheet Number	Total Sheets
472-85360	707125	**111**	222

Landscape Specifications & Installation Requirements

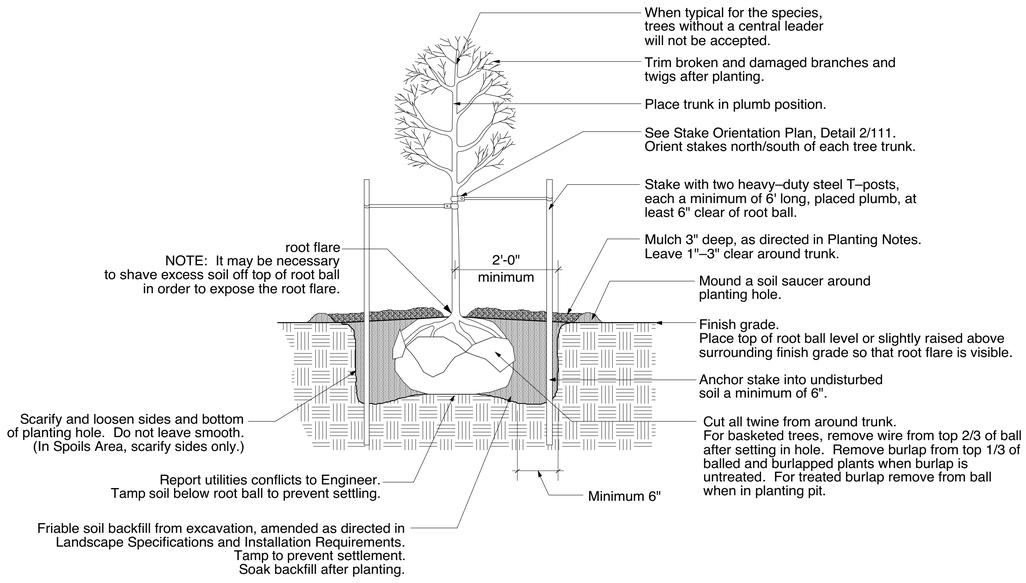
1. **Complete Installation** The Contractor shall provide all plants, materials, labor and equipment to complete the installation of trees, shrubs, and wildflower and grass seed mixes according to these Specifications and the planting Plans. Contractor shall be responsible for repair to disturbed areas as directed by the Engineer. Plant installation methods and scheduling shall be approved by the Engineer for optimal results.
2. **Plans and Specifications** KDOT Specifications for Furnishing and Planting Plant Materials shall apply, except where noted otherwise in these Plans and Specifications.
3. **Damage** The Contractor shall be responsible for repair to and/or replacement of new and existing construction damaged by Contractor's work.
4. **Utility Locate** Prior to start of work, locate underground utilities by calling Kansas One-Call (phone 1-800-344-7233).
5. **Site Variances** Contractor shall notify the Engineer of variances between the Plan and site conditions which affect installation or planting operations.
6. **Percolation Rate** Before placement of trees or shrubs in planting holes, percolation rate shall be at least 1" per hour in planting holes. Notify Engineer of conditions detrimental to the establishment of plant materials.
7. **Grading and Drainage** The Contractor shall be responsible for finished grading prior to plant installation and seeding operations. Landscape work shall not block the natural drainage of water.
8. **Herbicide** Contractor shall spray to kill perennial and/or noxious weeds and grass in planting areas. Existing grass, wildflowers, and vegetation to remain shall be determined by Engineer. Apply as many applications of herbicide as required for complete kill. Achieve complete kill before beginning installation.
9. **Vertical Clearance and Trimming** Within 2'-0" of the outer edge of each shoulder of the path, trees and shrubs overhanging the path shall be removed to provide 10 feet of vertical clearance. Tree limbs shall be cleanly cut just outside the branch collar; do not leave protruding stubs.
10. **Native Grass and Wildflower Seed Mix Installation / Schedule** Planting season for grass and wildflower seed mix shall be March 15 through May 15. The Engineer shall approve changes to the wildflower and native grass installation season.
11. **Tree Installation / Schedule** Planting season for trees shall be October 1 through May 15, as per City of Wichita specifications.
12. **Friable Soil Backfill for Planting Holes** For backfill in planting holes, use soil from excavation, broken up until friable.
13. **Fertilizer** for backfill in planting holes to be installed as per Manufacturer's instructions.
14. **Tree Staking** All trees except Serviceberry shall be staked. Do not stake or guy a tree any longer than necessary. Stakes should be removed after one growing season, but may remain in place for a second season only if additional support is required. City of Andover shall be responsible for removal of staking materials.
15. **Mulch** Apply mulch 3" deep around trees and shrubs, for a minimum distance of 2'-0" around each plant. Leave 1" to 3" clear around trunk of each tree.
16. **Tree Wrap** Securely wrap from ground level to second level of branches on the trunk. Shantung Maple and Oklahoma Redbud shall be wrapped. For other trees, use of wrap is at the Contractor's discretion.

Maintenance, Acceptance, Guarantee and Replacements

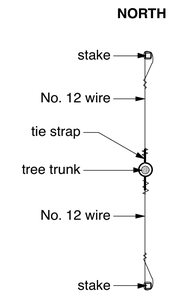
1. **Maintenance** Water for installation purposes to be provided by Contractor. Prior to acceptance, the planting areas shall be maintained, watered and kept clean and weed free by the Contractor.
2. **Acceptance** When landscape work is completed, the Contractor and Engineer shall meet to review the installation. At the end of the first growing season, native grass and wildflowers shall be inspected for coverage and germination. If the installation is in accordance with the plans and specifications, the Engineer shall accept the work. If not, the Engineer may require additional work before acceptance.
3. **Guarantee** Guarantee for spring planted plants shall be through August 15th. Guarantee for fall planted plants shall be through June 1st.
4. **Replacements** At the end of the guarantee period the Engineer and Contractor shall meet to review for replacements. Dead plants and those not in a vigorous, thriving condition shall be replaced as originally specified in the following planting season. There shall be no additional cost to the Owner for replacements except due to vandalism.

Landscape Materials

1. **Approval and Rejection** Landscape materials shall be approved by the Engineer before start of work. Landscape materials, trees, plants, and grass and wildflower seed mix may be rejected at any time during the installation.
2. **Herbicide** to be Round-up or approved equal. Herbicide is subsidiary to planting operations.
3. **Fertilizer** for backfill in planting holes to be a balanced fertilizer having a minimum 13-13-13 analysis, or other approved product.
4. **Plant Materials** shall meet current American National Standards Institute standards, and exhibit a vigorous and healthy condition.
5. **Mulch** to be an approved shredded hardwood bulk mulch free of debris and weed seeds, and of uniform size and texture.
6. **Tree Wrap** shall be 4" Forces wrap or other approved product (i.e. DeWitt Tree Wrap). Tree Wrap is subsidiary to tree installation.



1 / 111 Tree Planting and Staking Diagram — ELEVATION
(no scale)



2 / 111 Tree Staking Diagram — PLAN
(no scale)

FOSTER DESIGN Associates LLC
landscape architecture & planning
1415 E. 2nd Street N. Wichita, KS — 316-262-4525 — www.fosterdesignassociates.com

FINAL
Landscape Specifications & Planting Details
Redbud Bike Path — K-96 to 159th Street East, Wichita, KS

date printed: Feb. 11, 2019 project: 17008