SECTION 32 91 19.13 - Topsoil Placement and Grading

BELOW-GRADE STABILIZING SYSTEM FOR TREES

Display hidden notes to specifier. (Don't know how? [Click Here](http://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Tree Staple, Inc.; below-grade stabilizing system for trees.
This section is based on the products of Tree Staple, Inc., which is located at:
1390 Valley Rd.
Suite 2B
Stirling, NJ 07980
Toll Free: 877-873-3749
Phone: 908 626-9300
Fax: 908-626-9707
Email: sales@treestaple.com
Web Site: www.treestaple.com
Tree Staple, Inc., founded in 1998 and incorporated in 2000, makes, markets and sells patented below-grade stabilizing systems for transplanted trees and shrubs under the Tree Staple™ brand. TSI's products are manufactured by U.S. based companies. Tree Staple™ products minimize safety risks, improve aesthetics and reduce labor and capital requirements for landscape and nursery projects.

1. GENERAL
	1. SECTION INCLUDES
		1. Below-grade stabilizing system for trees.
	2. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant; add others as required.

* + 1. Section 33 05 00 - Common Work Results for Utilities.
		2. Section 32 90 00 - Planting.
		3. Section 33 01 00 - Operation and Maintenance of Utilities.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: Manufacturer's data sheets and detail drawings for each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Product literature.
			4. Installation methods.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.
		2. Store products indoors in manufacturer's or fabricator's original containers and packaging, with labels clearly identifying product name and manufacturer. Protect from damage.
	3. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install systems under environmental conditions outside manufacturer's recommended limits.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Tree Staple, Inc., which is located at: 1390 Valley Rd. Suite 2B; Stirling, NJ 07980; Toll Free Tel: 877-873-3749; Tel: 908 626-9300; Fax: 908-626-9707; Email: [request info (sales@treestaple.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Tree+Staple,+Inc.&coid=40971&rep=&fax=908-626-9707&message=RE:%20Spec%20Question%20(02910tsi):%20%20&mf=); Web: [www.treestaple.com](http://www.treestaple.com)

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Tree Staple stablizers come in 4 standard sizes to meet the needs of transplanting 2 inch to 8 inch caliper trees. As a general rule of thumb, stabilizers should extend 12 inches below the root ball. When needed get even more holding power by increasing the size or number of Tree Staples.

* 1. BELOW-GRADE STABILIZING SYSTEM FOR TREES
		1. Basis of Design: Tree Staple stabilizers as manufactured by Tree Staple, Inc.
			1. Materials: Uncoated, cold-rolled plain carbon steel which will dissipate in soil over time.

\*\* NOTE TO SPECIFIER \*\* Delete options for models not required.

* + - 1. Model: TS24; 24 inches (610 mm).
				1. Tree Caliper: 1 inch - 2 inches (25 mm - 51 mm).
				2. Number of Tree Staples Per Tree: 2 with up to a 16 inches (406 mm) root ball.
			2. Model: TS36; 36 inches (914 mm).
				1. Tree Caliper: 2 inches - 4 inches (51 mm - 102 mm).
				2. Number of Tree Staples Per Tree: 2 with a 24 inch (610 mm) root ball.
			3. Model: TS42; 42 inches (1067 mm).
				1. Tree Caliper: 4 inches - 6 inches (102 mm - 152 mm).
				2. Number of Tree Staples Per Tree: 2-3 with a 30 inch+ (762 mm+) root ball.
			4. Model: TS48; 48 inches (1219 mm).
				1. Tree Caliper: 6 inches - 8 inches (152 mm - 203 mm).
				2. Number of Tree Staples Per Tree: 2-3 with a 36 inch+ (914 mm+) root ball.
			5. Model: As required by tree sizes indicated on Drawings.
1. EXECUTION
	1. EXAMINATION AND PREPARATION
		1. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
		2. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
	2. INSTALLATION

\*\* NOTE TO SPECIFIER \*\* Consult manufacturer when working with container stock or loosened balled and burlapped material.

* + 1. Install in accordance with manufacturer's recommended installation instructions for project conditions and the following.
			1. Leaving burlap intact, heel the plant's root ball into place.
			2. Remove plastic safety caps from tree staples.
			3. Set each tree staple opposite the other and against the outside edge of the root ball. The shorter prong shall be positioned over the root ball, halfway between the trunk and the ball's outer edge.
			4. Drive each tree staple into the ground until the cross bar is recessed one to two inches below the surface of the root ball. Alternate between hitting either of the prongs to insure that the tree staples are completely below-grade.
			5. Place safety caps on exposed ends.
			6. Cut back burlap, leaving material under cross bars.
			7. Fill and finish planting using best practices.
	1. PROTECTION
		1. Protect installed products until completion of project.

END OF SECTION