

SECTION S614 - CARE OF PLANTS

S614-1 DESCRIPTION

Work consists of pruning, transplanting, or removal of existing plants and stumps as required in Contract Documents and as directed by Project Manager.

References to NYSDOT specifications are to be in accordance with latest edition of *NYSDOT Standard Specifications (US Customary Units)*.

S614-2 MATERIALS

None specified.

S614-3 CONSTRUCTION DETAILS

S614-3.01 General

Trunks, branches, rubbish and debris resulting from work is to be removed and disposed of in accordance with NYSDOT Section 201 Clearing and Grubbing.

Existing features within public right-of-way and private property immediately adjacent to public right-of-way are to be protected to limit any possible damage from occurring due to Contractor's operations. Any damage incurred while performing any work under this specification is to be immediately repaired.

Workers are not permitted to climb trees with climbing spurs, but are to employ other acceptable tree climbing methods. Only tools and methods of work that are acceptable are to be used. Cutting surfaces of all tools, ladders, ropes, soles of workers shoes and other objects coming into contact with plant are to be washed with approved disinfectant at start of any work on plant to prevent spread of any plant born disease. If in opinion of Project Manager, unsafe tools, equipment or methods are being used, work will be stopped until such unsafe conditions have been corrected.

S614-3.02 Pruning

All work is to be performed in accordance with ANSI Z133.1, ISA Tree Pruning Guidelines and as required by City Forester.

Existing plant is to be pruned of undesirable wood, and resulting crown re-shaped to natural habit of plant. Branches interfering with or hindering healthy growth of existing plant are to be removed. Diseased or dead branches are to be removed. Branches which may be partially dead, yet has healthy lateral branch at least 1/3 diameter of parent branch, are to be trimmed beyond healthy portion of branch, providing result does not prove to be unsightly in which case branch is to be completely removed. Stubs or improper cuts resulting from former pruning operations are to be removed.

Branches on existing plants that interfere with vehicular or pedestrian sight distance, traffic signs or street lights, are to be removed. Overhanging branches that are less than 16 feet above any part of roadway, or 7 feet above any part of sidewalk, are to be removed. Existing plants are to be additionally pruned so as to allow minimum lateral clearance along sidewalk of 12 inches.

Cuts are to be cleanly made with sharp tools as close to parent trunk or limb as possible, without disturbing callus collar. Large bark wounds are to be scar traced in accordance with good horticultural practice. Nails, spikes, wire or other foreign materials driven into or fastened to plant are to be either removed, or if approved cut flush in manner to permit complete healing over.

S614-3.03 Transplanting

Existing plants are to be transplanted in accordance with ANSI Z60.1 Transplanting. Transplanting is to be done by using tree spade of proper dimensions for size of plant which is to be transplanted.

Transplanted plants are to be planted at same depth as plant originally grew. Transplanted plants are to be planted and maintained in accordance with Section S611 Planting.

Pit at least twice size of root ball is to be dug, and plant set centered and plumb within pit. Burlap wrap and twine enclosing root ball is to be peeled back to expose top 1/2 of root ball, and all wraps and ropes removed. Prepared soil mix backfill material consisting of 2 parts native excavated material, 1 part saturated peat moss and 1 part topsoil is to be placed in 6 inch layers and thoroughly watered in to eliminate air pockets. Additional backfill material is to be placed and further watered in to compensate for any settlement. Backfill material is to be treated with slow release nitrogen thoroughly watered into backfill material.

S614-3.04 Removal

No cutting is to begin on any existing plant that is scheduled to be removed until approval has been received from Project Manager.

Trees are to be topped and limbed before felling.

Stumps are to be removed by grubbing, grinding or cutting. Stump holes are to be backfilled and compacted within 2 working days after removal of stump.

S614-4 METHOD OF MEASUREMENT

Quantity to be measured for payment will be number of existing plants pruned, transplanted or removed. Multiple plants growing out of same general excavation or pit will be measured as one plant.

Measurement for payment of tree and stump removal under this section, will only be for those trees and stumps that are 6 inches in diameter and larger. Payment for removal of trees and stumps that are less than 6 inches in diameter will be included under Item 203.02 Unclassified Excavation and Disposal.

Measurement range for tree and stump removal will be as noted, with measurement being rounded to nearest inch. For example, 11.4 inch will be made as 11 inch; 11.5 inch will be made as 12 inch.

Diameter of existing tree is to be measured before beginning work, with measurement being made 4 feet 6 inches above ground, commonly referred to as DBH (Diameter at Breast Height).

Separate payment for removal of existing stumps is limited only to existing stumps where tree was previously removed by others. Stumps that result from removal of respective existing tree by Contractor will be paid for under appropriate tree removal item.

Diameter of existing stump is to be measured before beginning work, with measurement being made across top of stump.

S614-5 BASIS OF PAYMENT

S614-5.01 General All Items

Unit price bid for all items includes cost of: removal and disposal of wood debris; protection of existing features; coordination with utilities; and furnishing all labor, material and equipment necessary to complete work.

S614-5.02 Prune Existing Plant

Unit price bid also includes cost of: cutting, removing and disposing undesirable growth and foreign materials; shaping plant crown; and repair of bark wounds.

S614-5.03 Transplant Existing Plant

Unit price bid also includes cost of: removing, balling, storing, trimming and re-planting existing plants; staking system; burlap; rope; prepared soil mix; hardwood mulch; water well; mulch retention pit; excavation and backfill.

S614-5.04 Remove Existing Shrub

Unit price bid also includes cost of: removing and disposing existing shrub and stump; excavation and backfill.

Removal of existing shrubs will be paid for under either NYSDOT Section 201 Clearing and Grubbing, Section R203 Excavation and Embankment, or Section S614 Care of Plants, as indicated in Contract Documents.

S614-5.05 Remove Existing Tree

Unit price bid also includes cost of: removing and disposing existing tree and stump; excavation and backfill.

S614-5.06 Remove Existing Stump

Unit price bid also includes cost of: grubbing, grinding, cutting and disposing existing stump; excavation and backfill.

Payment will be made under:

Note: XX in bid item number represents each individual size of tree to be transplanted. i.e.: 6" tree would be bid as S614.3306 Transplant Existing Tree – 6" DBH.

ITEM NO.	ITEM	PAY UNIT
S614.30	Prune Existing Shrub	Each
S614.31	Prune Existing Tree	Each
S614.32	Transplant Existing Shrub	Each
S614.33XX	Transplant Existing Tree - X" DBH	Each
S614.34	Remove Existing Shrub	Each
S614.35	Tree Removal - 6" to 11" DBH	Each
S614.36	Tree Removal - 12" to 17" DBH	Each
S614.37	Tree Removal - 18" to 23" DBH	Each
S614.38	Tree Removal - 24" to 29" DBH	Each
S614.39	Tree Removal - 30" to 35" DBH	Each
S614.40	Tree Removal - 36" to 41" DBH	Each
S614.41	Tree Removal - 42" to 47" DBH	Each
S614.42	Tree Removal - 48" DBH and over	Each
S614.43	Stump Removal - 6" to 11" diameter	Each
S614.44	Stump Removal - 12" to 17" diameter	Each
S614.45	Stump Removal - 18" to 23" diameter	Each
S614.46	Stump Removal - 24" to 29" diameter	Each
S614.47	Stump Removal - 30" to 35" diameter	Each
S614.48	Stump Removal - 36" to 41" diameter	Each
S614.49	Stump Removal - 42" to 47" diameter	Each
S614.50	Stump Removal - 48" diameter and over	Each

REVISED December 1, 2015