

SAMPLE TREE SURVEY

TREE #	SIZE (DBH)	*RATING	SPECIES	CONDITION/FORM	REMOVE - R SAVE - S
1	22"	O	American Elm	2/3	R
2	19"	S	Sugar Elm	1/2	R
3	28"	O	American Elm	2/3	S
4	16"	S	Sugar Elm	2/2	S
5	18"	S	Horse Chestnut	2/1	S
6	26"	K	Sugar Maple	1/2	S
7	9"	O	Hawthorn	3/2	S
8	10"	O	Black Elder	5/4	R
9	15"	S	Norway Maple	2/2	S
10	14"	O	Honey Locust	6	R
11	8"	O	Norway Maple	2/2	S
12	29"	S	Pin Oak	2/2	S

<p>K - KEY TREE S - SIGNIFICANT TREE O - OTHER</p>
--

DBH STATISTICS

TREE STATISTICS

KEY TREES		KEY TREES	
TOTAL DBH	55"	TOTAL SAVED	1
TOTAL DBH SAVED	55"	TOTAL REMOVED	0
TOTAL DBH REMOVED	0	% SAVED	100%
SIGNIFICANT TREES		SIGNIFICANT TREES	
TOTAL DBH	97"	TOTAL SAVED	4
TOTAL DBH SAVED	78"	TOTAL REMOVED	1
TOTAL DBH REMOVED	19"	% SAVED	80%
OTHER TREES		OTHER TREES	
TOTAL DBH	66"	TOTAL SAVED	3
DBH SAVED	38"	TOTAL REMOVED	3
DBH REMOVED	28"	% SAVED	50%
TOTAL DBH	218 "	TOTAL TREES	12
TOTAL DBH REMOVED	171"	TOTAL TREES SAVED	7
TOTAL DBH SAVED	47"	TOTAL TREES REMOVED	5

SAMPLE EARLY ACTION PLAN

<u>TREE #</u>	<u>SIZE (DBH)</u>	<u>SPECIES</u>	<u>SAVE = S REMOVE= R</u>	<u>ROOT PRUNE</u>	<u>CROWN TRIM</u>	<u>SNOW FENCE</u>	<u>FERTILIZER</u>
48	33"	American Elm	R				
49	18"	Horse Chestnut	S	Y	Y	Y	F
50	23"	American Elm	S	Y	Y	Y	F
51	18"	Sugar Maple	R				
52	8"	Norway Maple	S			Y	F
53	12"	Norway Maple	S				F
54	11"	Norway Maple	S				F
55	10"	Norway Maple				Y	F
56	20"	Black Walnut	R				
57	8"	Honey Locust	R				
58	7"	American Elm	R				

SPECIAL NOTES

Utilites will enter the building underground

Overhead electric to be switched to run underground on east parkway

Directions: Boring under under Trees = 52, 54, 57 will be required

Submitted by _____

Illinois Certified Arborist _____



Village of Barrington

DEPARTMENT OF PUBLIC WORKS

206 South Hough Street, Barrington, IL 60010-4399 • 847-381-7903 Fax: 847-382-3030

Tree Protection Standards

Every effort shall be made by the contractor, when working near trees and shrubs, to protect these trees and shrubs from harm. No trees or shrubs shall be removed unless so indicated on plans or as approved by an authorized representative of the Village. The contractor shall be responsible for taking all steps necessary to protect and preserve these trees. The contractor shall also be responsible for damage to or loss of any tree or shrub not specifically designated for removal.

Wherever trees are designated to be preserved the contractor shall take all the necessary steps, as described below, to insure the protection of all trees and shrubs.

1. All trees and shrubs designated to be preserved shall be fenced prior to the commencement of any work.
2. It shall be the responsibility of the contractor to assemble and install all tree protection devices as described:
 - Fencing shall be 48" tall high density polyethylene (HDPE) with a nominal mesh opening of 1.25" x 1.25" and shall be colored orange.
 - Fence posts shall be metal T posts at least 72" in length.
 - Fencing shall be installed at the dripline around all protected trees. The dripline is located using the following calculation:

Measure the diameter of the tree (DBH).

Convert the measurement from inches to feet.

Measure out from the trunk of the tree the number of feet calculated. Install the fence at this location around the tree.

Ex. A protected tree has a DBH of 10" . Measure out from the trunk to the tree 10'. Install the fencing around the entire tree at the 10' mark. See illustration for detail.

In the event a sidewalk, driveway, street or other paved surface is within the protected area, fencing shall be installed on both sides of the paved surface, at the required distance. See illustration for detail.

- Fencing shall be installed using the following method:

Metal T posts shall be driven 24" into the ground and spaced not more than 8' on center.

Fencing shall be secured to posts with plastic zip ties. A minimum of 2 ties shall be used per fence post.

Fencing shall be maintained in an upright position at all times during the course of any work.

3. No protection device shall be removed without prior approval by an authorized representative of the Village.

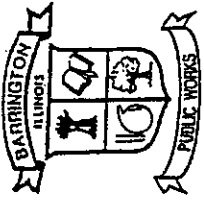


Village of Barrington

DEPARTMENT OF PUBLIC WORKS

206 South Hough Street, Barrington, IL 60010-4399 • 847-381-7903 Fax: 847-382-3030

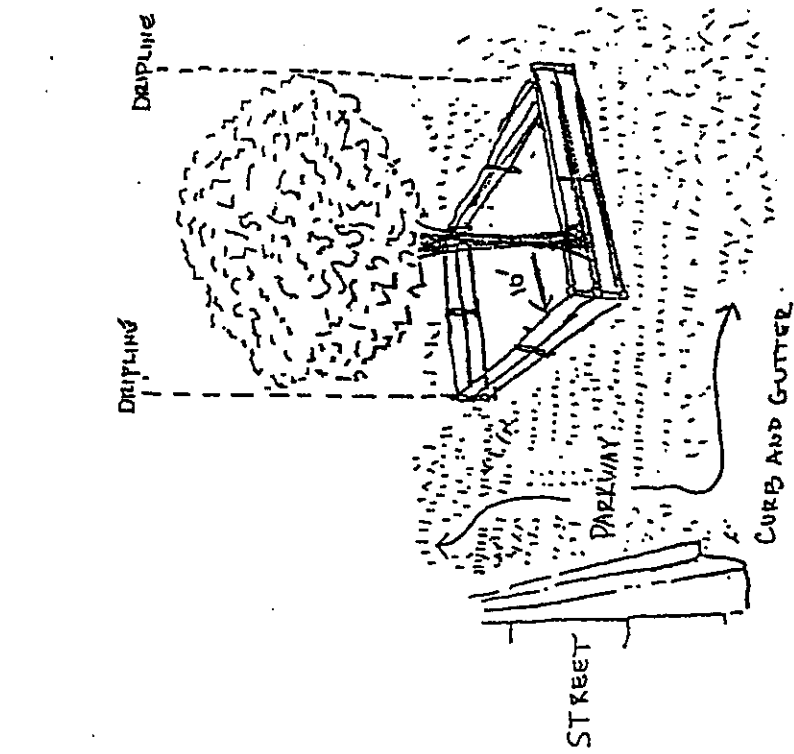
4. There shall be no construction activity or storage of any material within the enclosure or within the dripline of any tree.
5. All trees to be preserved within the construction zone shall be trimmed and root pruned prior to any construction activity in order to lessen the impact of construction; curb & gutter replacement, sidewalk replacement, utility repair or upgrade. Tree trimming and root pruning requirements shall be set forth by an authorized representative of the Village. The contractor shall be responsible for the proper completion of needed trimming or pruning. All equipment and vendors used to perform this work shall be approved by an authorized representative of the Village.
6. Where required, all trees shall be welled and protected against change of grade.
7. All trees and shrubs not specifically indicated for removal which are damaged shall be inspected by an authorized representative of the Village. The Village will furnish the contractor with an action plan indicating all corrective action to be taken. It shall be the responsibility of the contractor to complete all necessary remedial action.
8. All trees with a 6" DBH or less and all shrubs not specifically indicated for removal, which are removed or damaged beyond repair, shall be replaced by the contractor with plant material equivalent in size and species suitable for planting in that location, as determined by an authorized representative of the Village.
9. All trees larger than 6" DBH not specifically indicated for removal, which are removed or damaged beyond repair, shall be replaced by the contractor with plant material in size and species suitable for planting in that location, as determined by an authorized representative of the Village. Plant material shall be replaced on an inch for inch basis (i.e. one - 30" DBH tree removed / replaced with six - 5" trees). No replacement tree shall have a diameter of less than 3" or more than 6". In the event space does not allow for the required number of replacement trees, the remaining trees shall be planted within the Village R-O-W's as designated by an authorized representative of the Village.



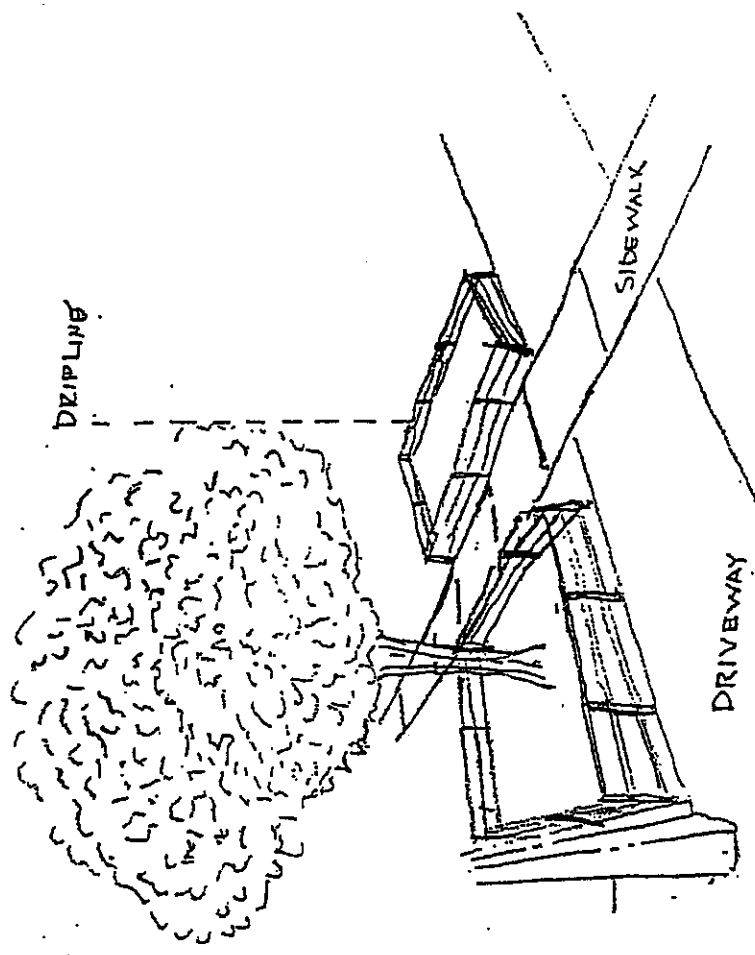
Village of Barrington

DEPARTMENT OF PUBLIC WORKS

206 South Hough Street, Barrington, IL 60010-4399 • 847-381-7903 Fax: 847-382-3030



TYPICAL TREE PROTECTION IN OPEN PARKWAY APPLICATION. A 10" DBH TREE IS SHOWN FOR THIS EXAMPLE.



TYPICAL TREE PROTECTION IN RESTRICTED PARKWAY APPLICATION. A 30" DBH TREE IS SHOWN FOR THIS EXAMPLE.

ROOT PRUNING STANDARDS

Management

Chuck Stewart, Urban Forest

Mike Szymanski, Village of Barrington

Intent

The intent of root pruning is to minimize root damage and promote root regeneration when excavation occurs within the critical root zone of the tree.

Location, Depth, Length

For the installation of sewers, water mains, electric lines, telephone lines and cable television lines, the root pruning shall be done at the point where the top of the trench will be closest to the tree and to a depth of 30 inches. For the installation of foundations, the root pruning shall be done at the limits of the over-dig for the foundation and to a depth of 30 inches. For the installation of curbs and similar construction, the root pruning shall be at the limit of excavation and to the depth of excavation. For example, if a curb is being constructed with an over-dig of one foot and a depth of the base of eighteen inches, then the root pruning would be done one foot behind the location of the back of curb and to a depth of eighteen inches.

The length of the required root pruning shall be equal to; two feet of length for each inch of tree diameter. For example, the required length of root pruning for a 20 inch diameter tree would be 40 feet. The Village or a qualified arborist may determine that this requirement be modified due to special site conditions.

Equipment

The equipment used must be able to cut the roots cleanly, without tearing or grabbing. All equipment used shall be inspected and approved by the Village or qualified arborist prior to commencement of work.

Methodology

Where specifying root pruning, the Village or a qualified arborist shall identify the location, depth, and length of the root pruning in the field. This can be done by staking and/or painting a line on the ground. The field location of the root pruning shall not be completed until proper field control is provided by a qualified engineer or surveyor. When the root pruning is complete, the area will be inspected by the Village or a qualified arborist to identify any hand pruning that may be necessary to achieve a clean cut on exposed roots. In areas where it is not practical to use a machine to perform root pruning as determined by a qualified arborist, the roots shall be cut cleanly by hand. All trenches resulting from root pruning operations shall be back-filled or barricaded immediately.

Timing

Root pruning shall be completed as close to the time of excavation as possible. All root pruning shall be completed prior to any disturbance within the critical root zone of a tree. The contractor shall coordinate this with the Village or a qualified arborist to ensure minimum site disturbance and tree impact.