

ALPINE CITY PLANNING COMMISSION MEETING

NOTICE is hereby given that the **PLANNING COMMISSION** of Alpine City, UT will hold a **Regular Meeting** at Alpine City Hall, 20 North Main, Alpine, Utah on **Tuesday, November 6, 2018 at 7:00 pm** as follows:

I. GENERAL BUSINESS

A. Welcome and Roll Call:
B. Prayer/Opening Comments:
C. Pledge of Allegiance:

Bryce Higbee
John Gubler
By Invitation

II. PUBLIC COMMENT

Any person wishing to comment on any item not on the agenda may address the Planning Commission at this point by stepping to the microphone and giving his or her name and address for the record.

III. ACTION ITEMS

A. Alpine City Tree Selection Guide Book

Review proposed Tree Guidelines Book and make recommendation to City Council.

B. 2019 Planning Commission Meeting Schedule

Review and approve and the 2019 Planning Commission Meeting Schedule.

IV. COMMUNICATIONS

V. APPROVAL OF PLANNING COMMISSION MINUTES: October 16, 2018

ADJOURN

Vice-Chair Bryce Higbee November 6, 2018

THE PUBLIC IS INVITED TO ATTEND ALL PLANNING COMMISSION MEETINGS. If you need a special accommodation to participate in the meeting, please call the City Recorder's Office at 801-756-6347 ext. 5.

CERTIFICATION OF POSTING. The undersigned duly appointed recorder does hereby certify that the above agenda notice was posted at Alpine City Hall, 20 North Main, Alpine, UT. It was also sent by e-mail to The Daily Herald located in Provo, UT a local newspaper circulated in Alpine, UT. This agenda is also available on the City's web site at www.alpinecity.org and on the Utah Public Meeting Notices website at www.utah.gov/pmn/index.html.

PUBLIC MEETING AND PUBLIC HEARING ETIQUETTE

Please remember all public meetings and public hearings are now recorded.

- All comments must be recognized by the Chairperson and addressed through the microphone.
- When speaking to the Planning Commission, please stand, speak slowly and clearly into the microphone, and state your name and address for the recorded record.
- Be respectful to others and refrain from disruptions during the meeting. Please refrain from conversation with others in the audience as the microphones are very sensitive and can pick up whispers in the back of the room.
- Keep comments constructive and not disruptive.
- Avoid verbal approval or dissatisfaction of the ongoing discussion (i.e., booing or applauding).
- Exhibits (photos, petitions, etc.) given to the City become the property of the City.
- Please silence all cellular phones, beepers, pagers or other noise making devices.
- Be considerate of others who wish to speak by limiting your comments to a reasonable length, and avoiding
 repetition of what has already been said. Individuals may be limited to two minutes and group representatives
 may be limited to five minutes.
- Refrain from congregating near the doors or in the lobby area outside the council room to talk as it can be very
 noisy and disruptive. If you must carry on conversation in this area, please be as quiet as possible. (The doors
 must remain open during a public meeting/hearing.)

Public Hearing vs. Public Meeting

If the meeting is a **public hearing**, the public may participate during that time and may present opinions and evidence for the issue for which the hearing is being held. In a public hearing there may be some restrictions on participation such as time limits.

Anyone can observe a **public meeting**, but there is no right to speak or be heard there - the public participates in presenting opinions and evidence at the pleasure of the body conducting the meeting.

ALPINE PLANNING COMMISSION AGENDA

SUBJECT: Alpine City Tree Selection Guide Book

FOR CONSIDERATION ON: 6 November 2018

PETITIONER: Staff

ACTION REQUESTED BY PETITIONER: Review and make

recommendation to City Council.

BACKGROUND INFORMATION:

Jeremy Ainsworth and the PKJ Design Group have prepared a guide book for Alpine City that has been designed to help residents of Alpine City select trees that will comply with City standards. Planning Commission is being asked to review and make a recommendation to the City Council.

STAFF RECOMMENDATION:

Review the proposed Tree Selection Guide Book and make a recommendation to the City Council.



TREE GUIDE

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TREE GUIDE



Alpine City Street Tree Selection Guide

April 2018

Why select the right tree?

The purpose of this Street Tree Selection Guide is to provide specialized information about each tree and their specific properties for different areas of use and planting around Alpine, Utah. Trees are a very important component to our city. Trees clean the air and cool the environment around our homes and businesses. Trees increase property values and provide a natural beauty in our city, which harbors a great quality of life for all of Alpine's residents.

Tips for Producing a Tree Healthy City

This Guide Book will help you answer some of these important questions;

Q: What is the use for the tree?

A: Aesthetics, Screening, Shade

Q: What is the character of the tree at maturity?

A: Height, Width, Shape

Q: What are the environmental conditions?

A: Full Sun, Partial Sun, Type of Soil

Q: What overhead and underground utilities are near planting location?

A: Power, Water, Sewer, Gas, Telephone, Fiber

Learn how to select the correct tree

The trees recommended in this guide are tolerant of local temperatures and have qualities to be a great tree.



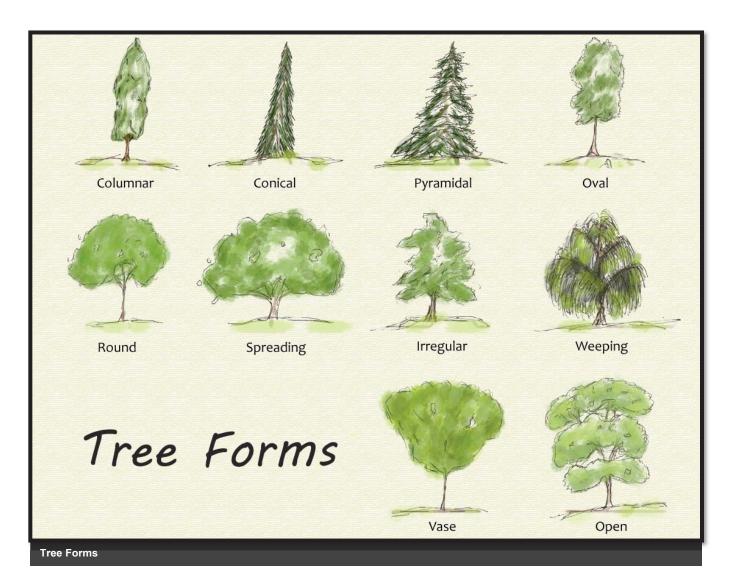
"Picking the right tree is essential to it's health and longevity. If a tree is not in the right soil, hardiness zone, or proper area for mature growth, the tree suffers. If severe pruning has to take place, stress to the tree happens, which can cause susceptibility to disease and death."

- PKJ Design Group, L.L.C

IN THIS GUIDE

- Tree Forms and Class
- Tree Planting Instructions
- Tree List and Characteristics

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Tree Forms

The tree forms pictured here are examples of tree shapes at maturity. It should give you a good idea of how the tree will look and help you plan its place in your landscape. These forms are referred to under the tree characteristics in this guide.

You will find specific heights, crown spreads and other tree characteristics found under the description of each tree.

How to Select a Tree

Shade trees are very different in growth and characteristics from one to another. Learning about a tree's shape, mature height, and spread will help in selecting the correct tree for the correct location.

No Cleanup

Most trees produce flowers, seeds and leaves that will drop during part of their natural life cycle. No tree is truly cleanup free, but this guide will help you choose ones that produce less than others.



Conifers

Conifer trees provide year round greenery, screening, and serve as excellent wildlife sanctuaries. They generally should not be pruned and therefore need large growing areas away from buildings, sidewalks, and driveways. Space varies with species.

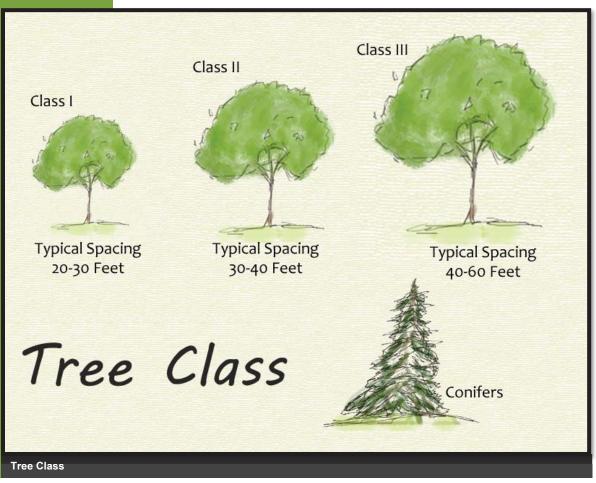


Tree Class

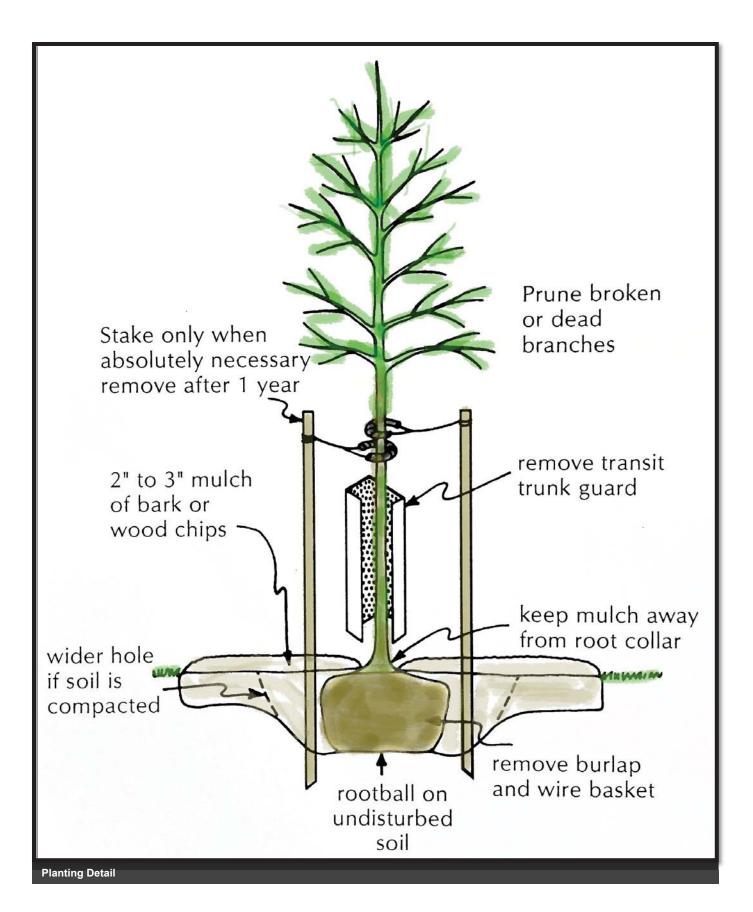
Class I - Smaller trees which normally do not reach a large height or trunk diameter. They are ideal for planting beneath or near power lines and in parking strips that are at least 6 feet wide.

Class II - Medium sized trees that are valued for their aesthetic and shade contributions. These trees are not for planting under power lines or in parking strips that are less than 6 feet wide.

Class III - Large sized trees that are long-lived and have large heights and trunk diameters. These trees are not for planting under or near power lines or in parking strips that are less than 10 feet wide.



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Planting your tree correctly

- 1. Dig the planting hole at least twice the width of the root ball and only as deep as the root ball. Make sure the tree is planted too high not too low.
- 2. Remove a tree from a container, gently lay it down. Push on the sides and bottom of the container to break contact between the root ball and container. Hold the trunk near the surface of the soil and push/pull the container away from the root ball. Slide the container off the root ball. Do not pull on the trunk. If the root ball is too large for this process it may be necessary to cut the container off after the tree is placed in the planting site.
- 3. Prune circling or protruding roots and remove twine from canopy.
- 4. Handle the root ball with extreme care. Minimize as much as possible any crumbling, cracking, and splitting of the root ball.
- 5. After gently placing the tree in the hole, remove wire and burlap if the stability of the root ball allows. If not, remove only the top one or two rows of wire and an equal amount of burlap.
- 6. Use the soil removed from the hole to backfill. Minimize air pockets by removing soil clumps, rocks, sod, and folded burlap.
- 7. Deeply soak the hole and root ball.
- 8. Place two to three inches of mulch over the planting area.

 Avoid direct contract between the mulch and the trunk of the tree.
- 9. Check moisture content of the backfill and root ball weekly to determine how much and how often to water.

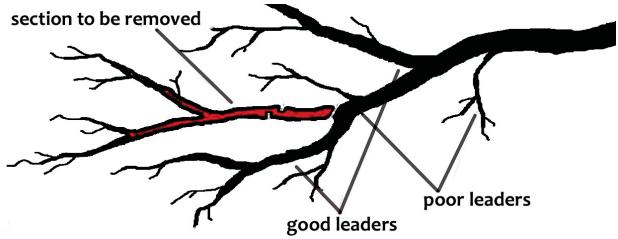
Utah State University Extension Bulletin EC 460, Selecting and Planting Landscape Trees is an excellent reference.

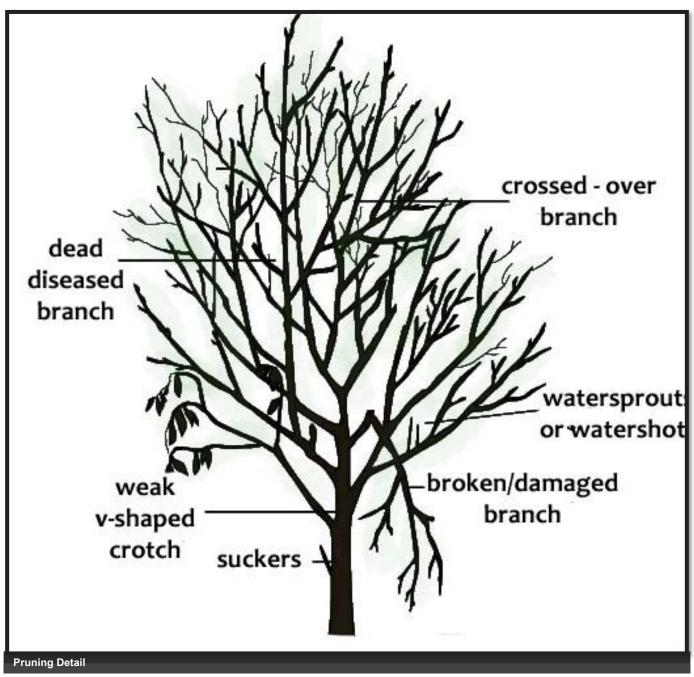
Planting Location

Before choosing the planting location, contact Blue Stakes (1-800-662-4111) for location of underground utilities.









Maintaining Healthy Trees

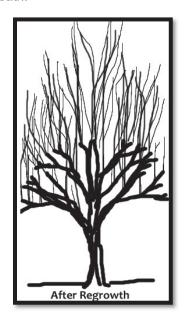
- 1. **Watering** Watering the tree regularly during the first year is critical to its establishment. Apply about 1 1/2" of water per week at one time, rather than watering daily. Place a shallow pie pan under the tree canopy and water the area until 1 1/2" accumulates in the pan. Depending on the sprinkler system, it may take 1/2 hour to 3-4 hours. Water from spring to fall and more often during periods of drought.
- 2. **Mulching** Mulching is a must! Mulch with wood chips to help retain soil moisture and reduce weeds. It also protects the tree from lawn mowers and weed trimmers. Mulch with 2"-3" of material at a 6' diameter. Keep mulch away from the tree trunk a few inches to avoid trunk rot. As mulch decomposes, it enriches the soil and provides organic matter and beneficial micro-organisms.
- 3. **Fertilizing** Fertilizers are naturally or synthetically produced elements applied to the soil or foliage of plants to supply nutrients necessary for normal or accelerated growth. With the exception of nitrogen, fertilizing is usually not required unless a know deficiency exists.
- 4. **Pests** Many pest problems occur as a result of improper watering, poor plant stock, or an inferior planting site. Trees that are poorly adapted to a particular site are usually the ones most affected by pests. Choosing the appropriate tree and planting it in an environment capable of sustaining good growth will significantly reduce many pest problems.
- 5. Proper Pruning Pruning can ensure the tree grows to the size and shape you want. When preformed correctly, it can also improve the structure of the tree. Before pruning any tree, make sure you know how to prune it without damaging the tree. Improper pruning can make the tree more susceptible to diseases and insects, weaken the tree, shorten the life of the tree, and take away from the aesthetics of the tree. Pruning near power lines or any other utility lines should be done by a certified professional.

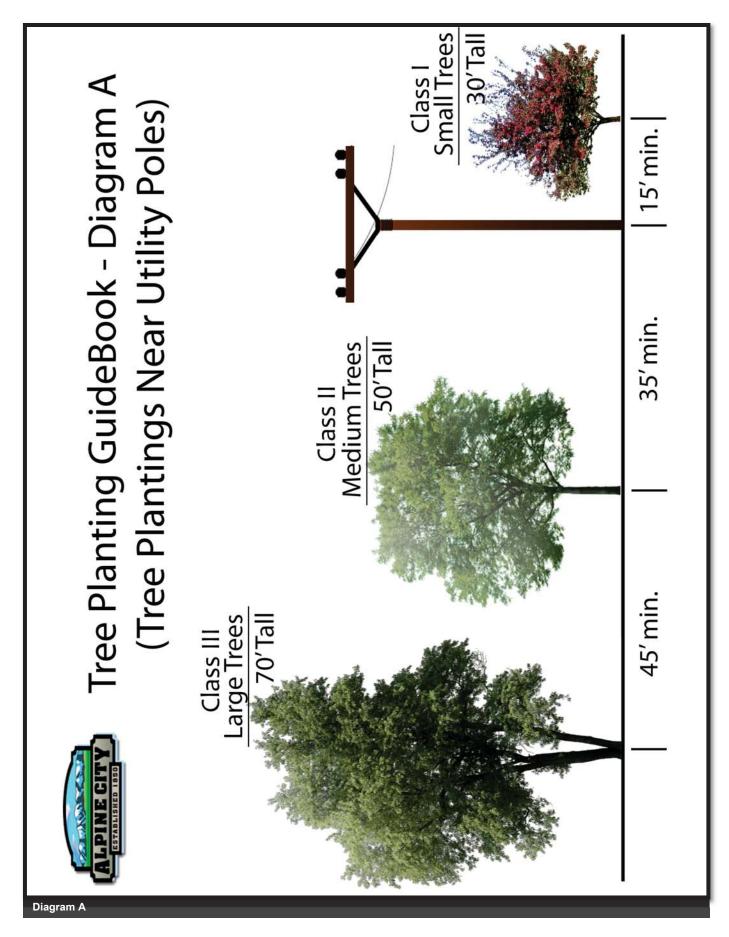
Never Top Trees

Topping a tree is cutting back large tree limbs to stubs larger than three inches in diameter. It is the most hazardous pruning method available. When a tree is topped, it can lead to weakened limbs and even tree death.



These trees become eyesores in the landscape. It also causes the tree to grow many new limbs around the cuts that are made, these limbs grow rapidly and have weak attachments to the tree. These weak limbs often fall off causing property damage or personal injury or death.





ALPINE CITY

Tree Planting Guide Book - Diagram B (Maintaining Clear Zone)

No trees inside of the 35' sight triangle The sight triangle measurements are from property line, not roadway. Where irregular property lines exist please contact the city for approval of plant locations.

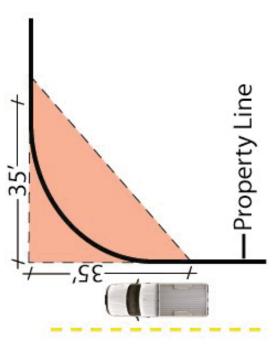
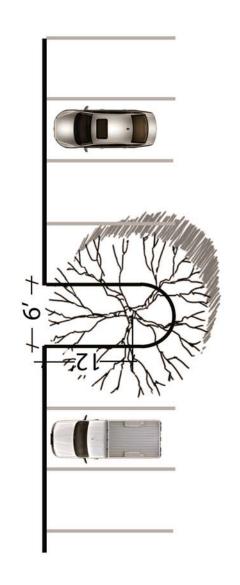


Diagram B

Existing trees within the park strips need to be trimmed to maintain a 13.5' minimum clear zone height. height of 13.5' above the curb and gutter and a 8' minimum Tree Planting Guide Book - Diagram C trimmed to a minimum height above sidewalk. Tree branches shall be (Maintaining Sight Lines) Diagram C

Tree Planting Guide Book - Diagram D (Parking Island Tree Placement)

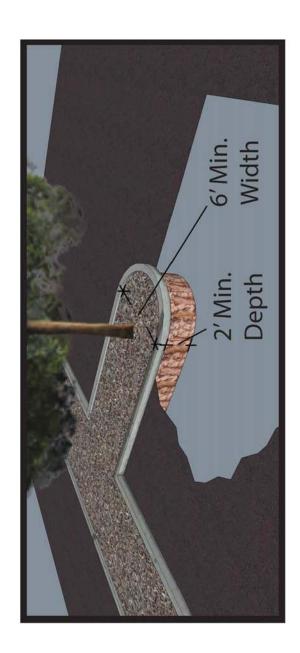


Place tree in parking islands as shown above

Diagram D

ALPINE CITY ESTABLISHED 1850

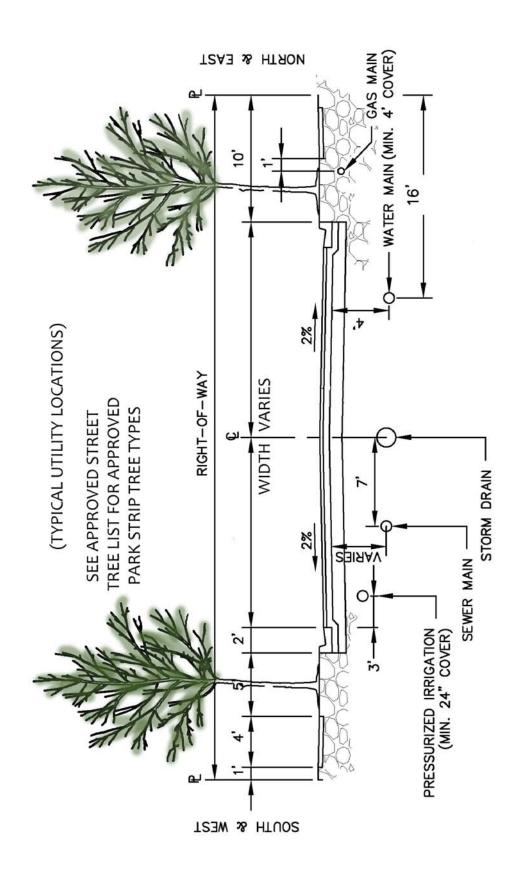
Tree Planting Guide Book - Diagram E (Minimum Parking Island Area)

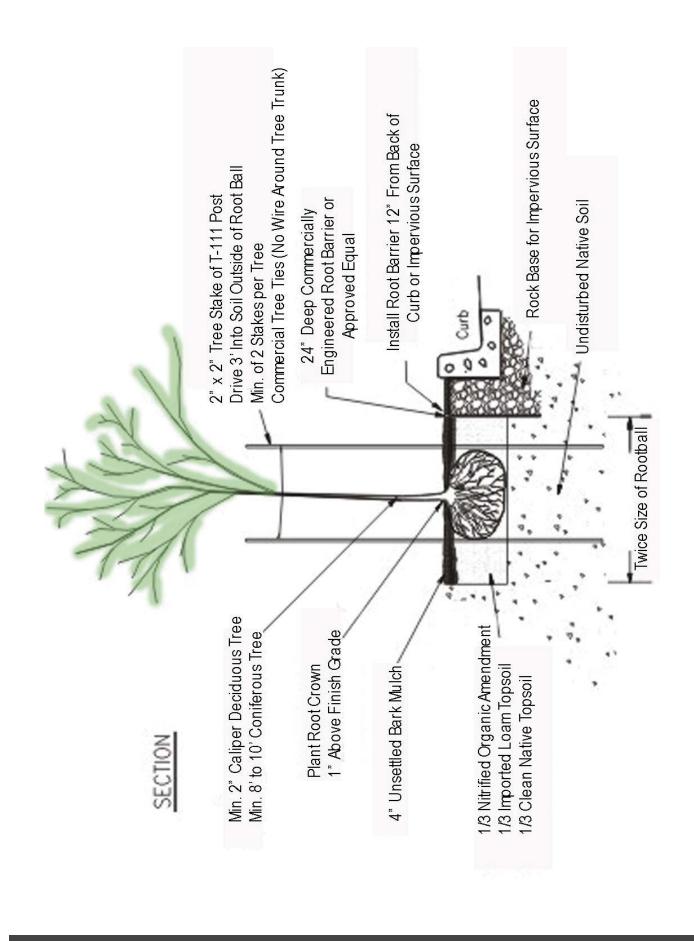


2' Minimum depth of soil 6' Minimum width of parking island

of 120 sq. ft. surface area must be installed with each tree. Class I or Class II To ensure tree health within a parking island, a minimum amount

Diagram E





Symbol Legend



Symbol Legend

Tree Characteristics

Located at the side of each illustrated tree page there are boxes and symbols denoting additional information about that particular tree. These symbols are explained above.

Submittal Process

If you would like to discuss planting and placement of a tree that is not recommended in this guide book, please submit to the Planning Department the full name of the proposed tree with placement location on your property. It will then be under review on a case by case basis.



Drought Tolerance

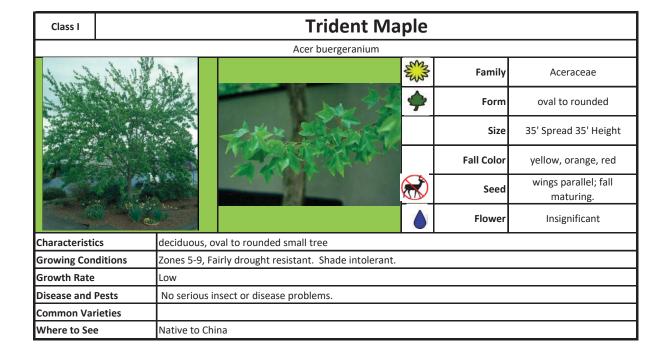
Lower water demand does not mean a tree can survive in permanently dry soil. All trees prefer a somewhat moist soil for optimum health and maximum growth. To protect your investment, be sure to water trees regularly in hot, dry periods.



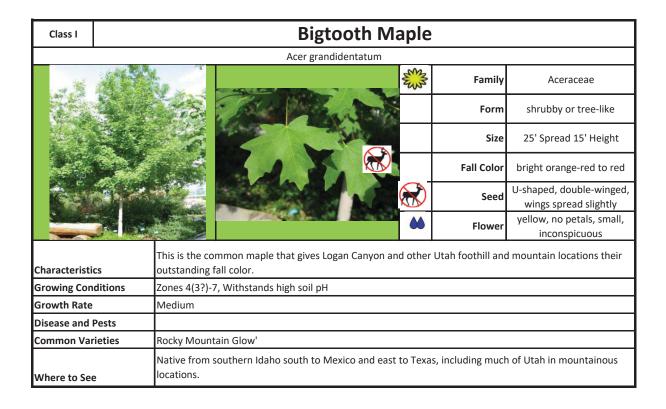
CLASS

These trees are smaller trees which normally do not reach a large height or trunk diameter. They are ideal for planting beneath or near power lines and in parking strips that are at least five feet wide. Typical spacing between Class I trees is 30 to 40 feet.

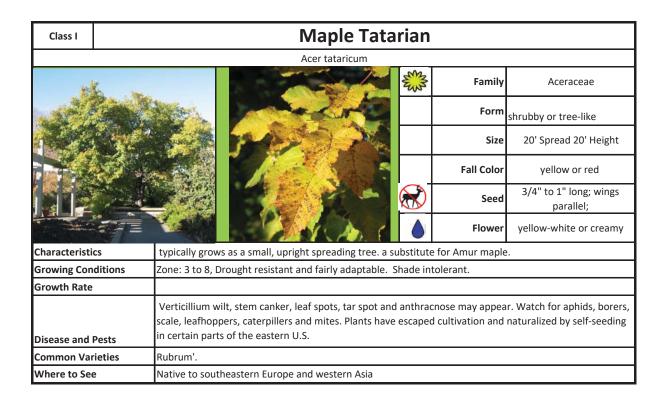
Class I	Hedge Maple					
	Acer Campestre					
		Family	Aceraceae			
	P P	Form	Broad, rounded			
		Size	35' Spread 35' Height			
	Fa	all Color	yellow			
And the second		Seed	wings very wide spread			
		Flower	Insignificant			
Characteristics	deciduous, very round crown and densely branched					
Growing Conditions	Zone: 5 to 8, medium moisture, well-drained soils in full sun to part sh	nade.				
Growth Rate	Medium					
Disease and Pests	No serious insect or disease problems.					
Common Varieties	Carnival', 'Elegant', 'Elsrijk', 'Evenly Red', 'Field Maple', 'Jade Patina', 'Louisa Red Shine', 'Metro Gold', 'Nanum', 'Postelense', 'Pulverentum', 'Queen Elizabeth', 'Royal Ruby', 'Schichtel's Upright', 'St. Gregory', 'William Caldwell'.					
Where to See	Native to Europe, Africa, and western Asia					



Class I	Amur Maple					
		Acer ginnala				
100	1			Family	Aceraceae	
				Form	rounded	
				Size	20' Spread 20' Height	
				Fall Color	yellow to red	
2/2	Valley Control	人能观别 化		Seed	2 parallel wings, 3/4" to 1" long	
				Flower	yellow-white and fairly inconspicuous	
Characteristics	deciduous,bro	oad, rounded outline, typically multistem	nmed			
Growing Condition	ns Zones 2-8, Mo	oderately shade tolerant.				
Growth Rate	Medium					
Disease and Pests						
Common Varieties		, Durand Dwarf', 'Embers', 'Emerald Elf', i.	'Flame', '	'Mandy', 'Red F	ruit', 'Summer Splendor',	
Where to See	Native to cent	ral and northern China, Manchuria, and	Japan			



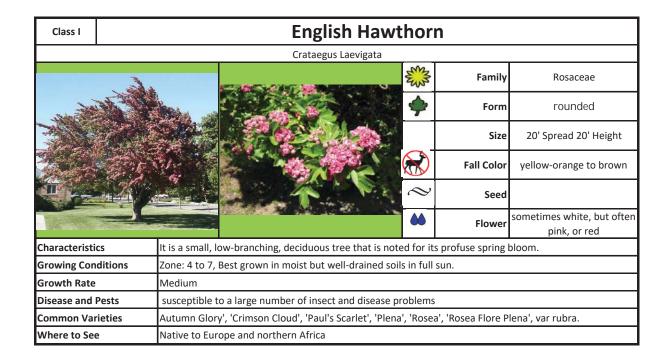
Class I		Paperbark Maple					
			Acer griseum				
				E	Family	Aceraceae	
				9	Form	oval to oval-rounded	
					Size	25' Spread 30' Height	
					Fall Color	red	
					Seed	1" to 1-1/2" long; pubescent; wings at 60 to	
				888	Flower	Insignificant	
Characteristic	cs	is a small, deciduous tre orange to cinnamon rec	ee with slender upright branc ddish/brown bark	ching. It is pa	rticularly note	ed for its exfoliating copper	
Growing Con	ditions	Zone 4 to 8, Easily grow	vn in average, slightly acidic, r	medium moi	sture, well-dra	ained soil	
Growth Rate	·	Low					
Disease and I	Pests	No serious insect or dis	sease problems.			·	
Common Var	ieties	Cinnamon Flake', 'Gingerbread', 'Molly Fordham'					
Where to See	<u> </u>	Native to China.					



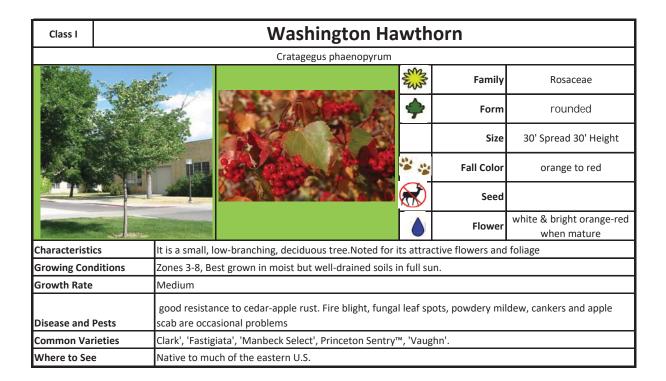
Class I	Red Buckeye						
,			Aesculus Pavia				
					Family	Sapindaceae	
					Form	rounded	
					Size	15' Spread 15' Height	
				* *	Fall Color	loses leaves early (late September)	
					Seed	Smooth, light brown, globular seed capsules	
				86	Flower	Showy narrow-tubular	
Characteristics		deciduous clum	np-forming shrub or small tree with	an irregular ro	ounded crown	ı.	
Growing Condit	tions	Zone: 4 to 8, w	ell-drained soil in full sun to part sha	ade			
Growth Rate		Average	Average				
Disease and Pe	sts	Leaf blotch car	Leaf blotch can be a significant problem				
Common Variet	ties						
Where to See		North America					



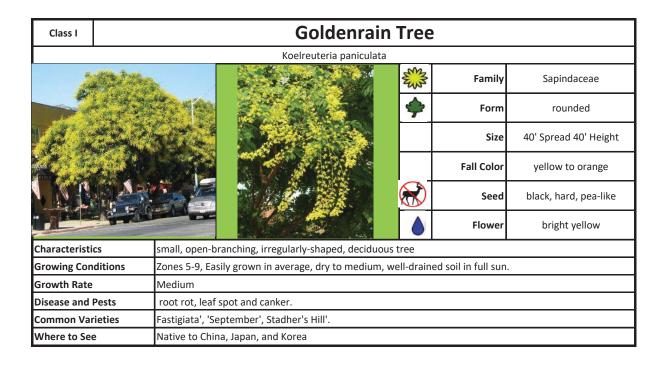
Class I	Eastern Redbud					
·	C	ersis canadensis				
		E CONTRACTOR OF THE PROPERTY O	Family	Fabaceae		
		•	Form	rounded		
			Size	30' Spread 35' Height		
		31.0	Fall Color	yellow		
		A TOTAL	Seed	brown, hard		
		•	Flower	purple-pink, pea-like		
Characteristics	is a deciduous, often multi-trunk purple flowers	red understory tree. t is partice	ularly noted for i	ts stunning pea-like rose-		
Growing Conditions	Zone: 4 to 8, medium moisture,	well-drained soils in full sun to	part shade.			
Growth Rate	Medium					
Disease and Pests	Canker can be a significant disease problem. Verticillium wilt, dieback, leaf spots, mildew and blights may also occur. Insect pests include Japanese beetles, tree hoppers, leaf hoppers, caterpillars, borers, webworms and scale.					
Common Varieties	Alba', 'Appalachian Red', 'Covery 'Royal White', 'Rubye Atkinson',	· · · · · · · · · · · · · · · · · · ·	• •	· · · · · ·		
Where to See	Native to most of the eastern U.	S. (not Utah)				



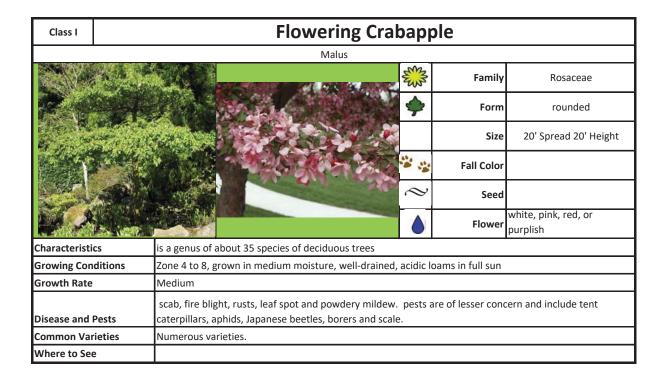
Class I		Hawthorne Lavalle						
			Cratae	egus LaVallei				
					SW3	Family	Rosaceae	
						Form	small oval to rounded tree	
						Size	25' Spread 18' Height	
73					* *	Fall Color	dark purple or brown	
	Was -		1			Seed		
T IN	K					Flower	white	
Characteristics		erect & less o	densely branched than o	ther hawthorns. F	lower has	unpleasant s	mell	
Growing Conditi	ions	Zones 4-8, w	ell-drained soils in full su	un				
Growth Rate		Medium	Medium					
Disease and Pes	ts	susceptible to cedar hawthorn rust and fireblight						
Common Varieti	ies	'Lavalle'.	'Lavalle'.					
Where to See							<u> </u>	



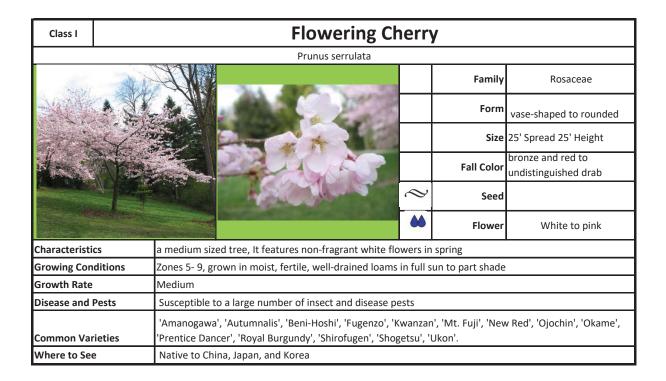
Class I		Rose of Sharon Tree					
		Hibiscu	s syriacus				
	Control Parket		E E	Family	Malvaceae		
				Form	Vase		
			C	Size	15' Spread 15' Height		
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fall Color	Green		
		39	~	Seed	Inconspicuous		
				Flower	Trumpet shaped		
Characteristic	c s Deciduous cl	ump-forming shrub or sma	all tree, tubular flowers a	ppear in spring.			
Growing Cond	ditions Zone 5-9, Fu	Zone 5-9, Full Sun / Partial Shade, Moist and Well-drained soils.					
Growth Rate	Medium; a 1	Medium; a 13"-24" or less per year.					
p: 1.5	Pests Aphids, Japan	Aphids, Japanese Beetle, Leaf Spots					
Disease and P	1 / 1		Helene, Diana				
Common Vari		a					



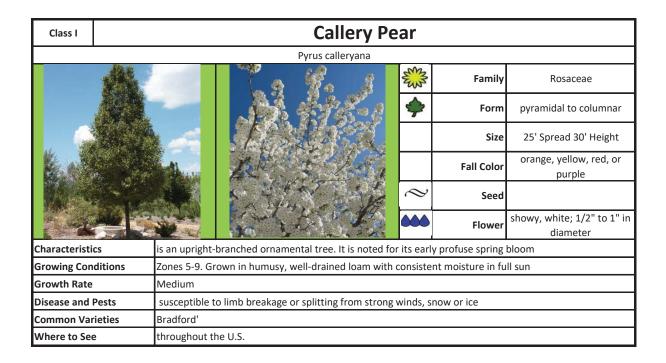
Class I	Goldenchain Tree					
		Laburnum x watereri				
		7		Family	Fabaceae	
	A.		•	Form	rounded	
and the second	15/10			Size	30' Spread 30' Height	
		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		Fall Color	unremarkable fall color	
			~	Seed	poisonous	
		The state of the s	*	Flower	bright yellow	
Characteristics	is noted for its	s pendulous axillary racemes of yellow	ı, wisteria-lik	e flowers .		
Growing Conditions	Zones 5-7, gro	own in rich, medium moisture, well-dr	ained soils in	n full sun to par	t shade.	
Growth Rate	Medium					
Disease and Pests		Twig blight is an infrequent but potentially serious disease. Canker and leaf spot are lesser disease problems. Watch for aphids and mealybugs.				
Common Varieties	Alford's Weep	oing', 'Aureum', 'Pendulum', Vossii'.				
Where to See	central, south	ern, and eastern Europe				



Class I	Flowering	Flowering Plum					
	Prunus cerasifera						
-		- E	Family	Rosaceae			
			Form	rounded			
	The second	2	Size	25' Spread 30' Height			
		* *	Fall Color	No fall color			
	7 7	\sim	Seed	round			
			Flower	pink or white			
Characteristics	it only exists in cultivation except for the situations	where it has	escaped garde	ens			
Growing Conditions	Zones 5-8, medium moisture, well-drained loams ir	n full sun to p	art shade.				
Growth Rate	Medium						
Disease and Pests	Susceptible to a large number of insect and disease	pests					
	'Alfred', 'Atropurpurea', 'Clark Hill Redleaf', 'Festeri			uter Vesuvius', 'Mt. St.			
Common Varieties	Helens', 'Newport', 'Nigra', 'Purple Pony', 'Purpusii',	munuercio	uu, vesuvius.				



Class I	Chokecherry						
Prunus virginiana							
			E STATE OF THE STA	Family	Rosaceae		
			*	Form	irregular, oval-rounded		
		No de la constante de la const	j	Size	20' Spread 30' Height		
		The state of the s	* *	Fall Color	golden yellow to orange		
		TO STATE OF THE ST	\sim	Seed			
			**	Flower	small, white		
Characteristics	a small deciduous tre	e most frequently occurs on wo	oded slope	es, bluffs and ra	vines		
Growing Conditions	Zones 2-6, Grow in av	erage, dry to medium, well-drai	ned loams	in full sun to p	art shade.		
Growth Rate	Medium						
Disease and Pests	Susceptible to a large	number of insect and disease p	ests.	<u> </u>			
Common Varieties	Bailey Select', 'Boughe' 'Robert', 'Schubert'.	Bailey Select', 'Boughen's Chokeless', 'Canada Red', "Copper Schubert', 'Mini Schubert', 'Purple Jewel', 'Robert', 'Schubert'.					
Where to See	Native to most of the	continental U.S., including Utah	, and to m	uch of Canada.			

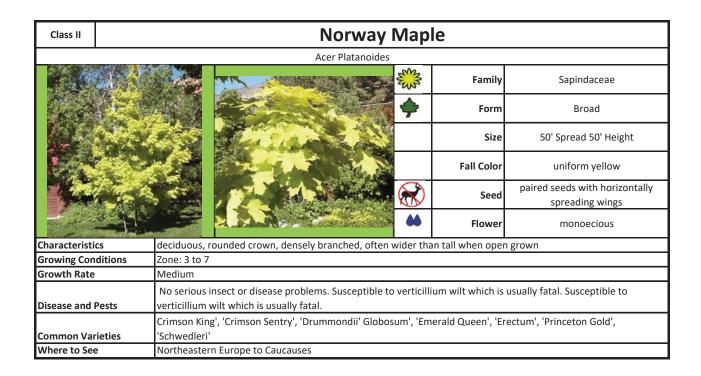


Class I		Japanese Lilac Tree	e	
		Syringa reticulata		
		E E E E E E E E E E E E E E E E E E E	Family	Oleaceae
		•	Form	oval-rounded
15			Size	20' Spread 30' Height
	4-7		Fall Color	yellow to brown
	1 A 1		Seed	
Processor of the Control of the Cont	-11		Flower	white; held in 6" to 12" long heads
Characteristic	cs	grows as a small tree or large shrub. It has showy, fragrant, cre	amy white flow	vers
Growing Con	ditions	Zones 3-8 medium moisture, well-drained soil in full sun		
Growth Rate		Medium		
Disease and F	Pests	No serious insect or disease problems.		
Common Var	ieties	Chantilly Lace', 'China Gold', 'Ivory Silk', 'Regent', 'Summer Snov	v', var. mandsc	hurica.
Where to See		Northern China		

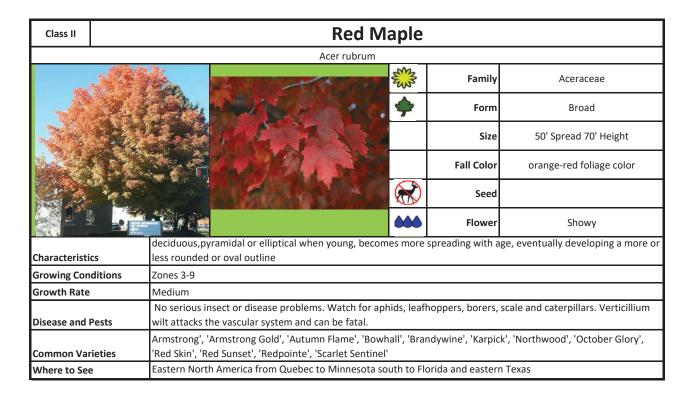
CLASS

These trees are medium sized trees that are valued for their aesthetic and shade contributions. These trees are not for planting under power lines or in parking strips that are less than five feet wide. Typical spacing between Class II trees is 40 to 50 feet.

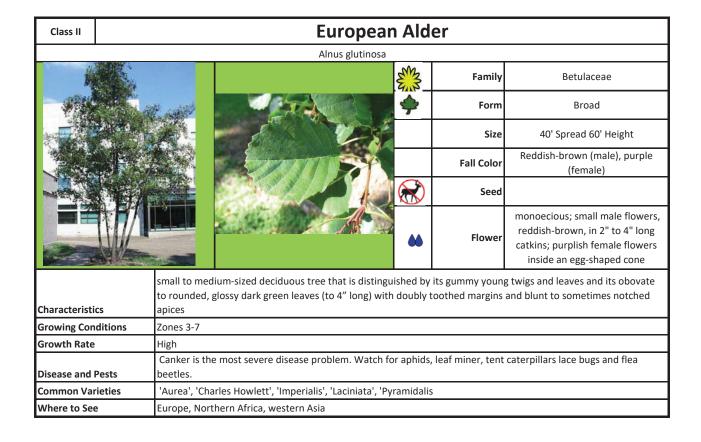
Class II	Bigtooth Maple					
,	Acer grandidentatum					
	EW STATE OF THE ST	Family	Aceraceae			
		Form	Broad			
		Size	30' Spread 30' height			
		Fall Color	bright orange-red to red			
		Seed				
		Flower	yellow, no petals, small, inconspicuous			
	It is tolerant of our soil and climatic conditions, and even a	appears to withstand s	ome drought when planted in the			
Characteristics	valleys					
Growing Conditions	Zones 4(3?)-7, Tolerant of our soil and climatic conditions	, and even appears to	withstand some drought when plar			
Growth Rate	Medium	Medium				
Disease and Pests						
Common Varieties	Rocky Mountain Glow	Rocky Mountain Glow				
Where to See	Native from southern Idaho south to Mexico and east to T	exas, including much o	of Utah in mountainous locations.			



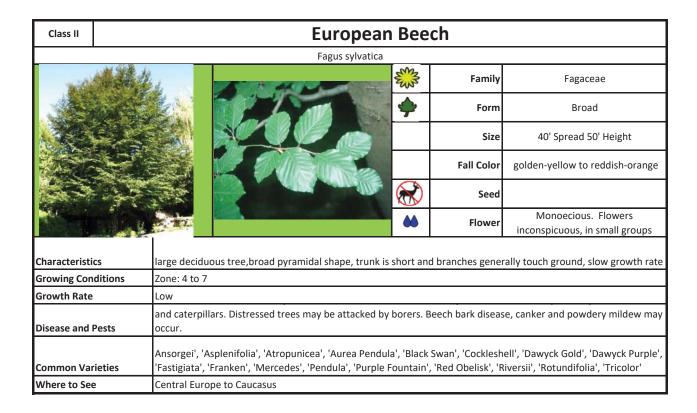
Class II		Sycamore Maple					
		Acer pseudoplatanus					
20		Fa	amily	Aceraceae			
		∳ F	Form	Broad			
			Size	60' Spread 60' Height			
		Fall C	Color	greenish yellow to vibrant scarlet to burgundy			
			Seed	pairs of samaras (to 2" long) with the wings typically forming a 60 degree angle			
中北	相儿	FIG.	ower	Monoecious			
		deciduous, pyramidal or elliptical when young, becomes more spreading v	with a	ge, eventually developing a more or			
Characteristic	CS	less rounded or oval outline					
Growing Con	ditions	Zone: 4 to 7					
Growth Rate		Medium					
Disease and F	Pests No serious insect or disease problems. Canker is the most significant potential disease problem.						
Common Var	ieties	'Atropurpureum', 'Brilliantissimum', 'Erectum', 'Erythrocarpum', 'Leopoldii', 'Prinz Handjery', f. variegatum, 'Worley'					
Where to See		Northwest/central Europe and western Asia					



Class II		Autumn Blaze Maple						
	Acer x freemanii							
	4	A P			EWS EWS	Family	Aceraceae	
					P	Form	Broad	
			M. M.			Size	40' Spread 55' Height	
	1194			A A		Fall Color	Greenish-yellow to red	
						Seed		
					W	Flower	inflorescences in ball-like clusters	
Characteristic	cs					narinum). It is som ackcrosses that ma	etimes difficult to identify a y occur.	
Growing Cond	ditions	Zone: 3 to 8						
Growth Rate		High						
Disease and F	ests	No serious insect or disease problems. Young plants susceptible to leafhoppers and scale. Borers.						
Common Var	ieties	Armstrong', 'Autumn Blaze', 'Autumn Fantasy', 'Celebration', 'Firefall', 'Marmo', 'Morgan', 'Scarlet Sentinel', 'Sienna Glen'						
Where to See	!							



Class II		European Hornbeam							
·	Carpinus betulus								
44			**************************************	Family	Betulaceae				
MATA	1100		•	Form	Broad				
				Size	40' Spread 60' Height				
				Fall Color	yellow to yellow-green				
				Seed					
		THE REAL PROPERTY.	₩	Flower	Insignificant				
Characteristics	a deciduous,	, medium sized tree, somewhat	pyramidal or oval w	vhen young, mat	ure plants are broad and rounded				
Growing Condition	ns Zones 4-8	Zones 4-8							
Growth Rate	Low	Low							
Disease and Pests	No serious ir	No serious insect or disease problems.							
Common Varieties	'Asplenifolia	'Asplenifolia', 'Brownstone', 'Columnaris', 'Columnaris Nana', 'Cornerstone', 'Emerald Avenue', 'Fastigiata', 'Franz Fo							
Where to See	Europe, Asia								



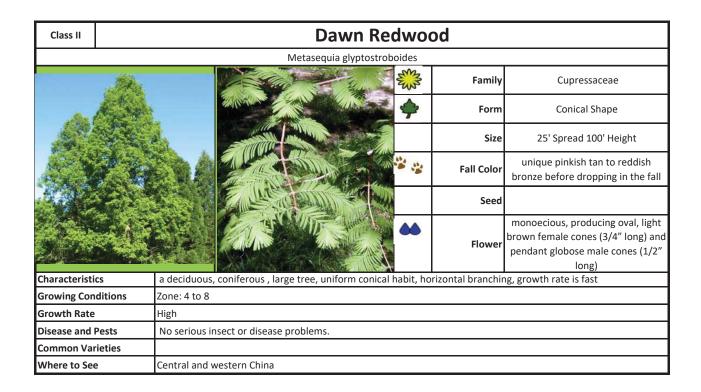
Class II	Tricolor Beech	Tricolor Beech						
	Fagus sylvatica							
		Family	Fagaceae					
	→	Form	Round					
		Size	20' Spread 30' Height					
With the same of t	Fig. 1	Fall Color	bronze-gold					
		Seed						
	₩ W	Flower	Monoecious yellowish green flowers bloom in April-May, the					
Characteristics	A large deciduous tree typically growing to 50-60' (less frequently to rounded-spreading crown.	100') tall v	with a dense, upright-oval to					
Growing Conditions	Zone: 4 to 7							
Growth Rate								
Disease and Pests	No serious insect or disease problems. Beech scale is an occasional problem. Watch for aphids, Japanese beetles and caterpillars. Distressed trees may be attacked by borers. Beech bark disease, canker and powdery mildew may occur.							
Common Varieties								
Where to See	Woodlands in central and southern Europe							

Class II	Autumn Purple Ash							
	Fraxinus americana 'Autumn Purple'							
San 12h	A. Kete		STATE OF THE PERSON OF THE PER	Family	Oleaceae			
			-	Form	Oval			
				Size	50' Spread 60' Height			
				Fall Color	purple to yellow-purple			
				Seed				
					dioecious; small and inconspicuous,			
	A SECOND		•	Flower	arranged in conical clusters; appear in spring before the leaves expand.			
Characteristics	a large decidu	ous tree, shape is oval in youth, becom	ing more	rounded with ag				
Growing Condit	ions Zones 3-9							
Growth Rate	Medium							
Disease and Pes	difficult to era fungal leaf spo	Emerald ash borer will typically kill an ash tree within 3-5 years after infestation. Once infestation occurs, it is very difficult to eradicate this pest which feeds under the bark and bores into wood. Potential disease problems include fungal leaf spots, powdery mildew, rust, anthracnose, cankers and ash yellows. General ash decline is also a concern. Brittle branches are susceptible to damage from high winds and snow/ice.						
Common Variet	'Autumn Applause', 'Autumn Blaze', 'Champaign County', 'Chicago Regal', 'Elk Grove', 'Empire', 'Greenspire', 'Junginger', 'Manitou', 'Rosehill', 'Royal Purple', 'Skycole', 'Tures'							
Where to See	Eastern U.S			_				

Class II		Princeton Sentry' Ginkgo						
	Ginkgo biloba							
**************************************	M		Family	Ginkgoaceae				
		*	Form	Broad				
			Size	30' Spread 50' Height				
		A LOCAL	Fall Color	bright yellow				
			Seed					
			Flower	Dioecious. Green male flowers borne in 1" long catkins in spring; female flowers inconspicuous.				
		deciduous, a large tree, medium texture, rather coarse in , coni	ical form when	oung, spreading lateral branches				
Characteristic	cs	with agewinter						
Growing Con	ditions	Zone: 3 to 9						
Growth Rate		Medium						
Disease and F	Pests	No serious insect or disease problems. Usually slow growing, with initial growth being somewhat sparse.						
		Autumn Gold', Golden Colonnade', 'Halka', 'Jade Butterfly', 'Lakeview', 'Magyar', 'Pendula', 'Presidential Gold',						
Common Var	ieties	'Princeton Sentry', 'Saratoga', 'Troll', 'Tubifolia', 'Variegata'						
Where to See	2	China and Japan						

Class II		Honey Locust						
	Gleditsia triacanthos var. inermis							
	1 American services	र्ध	Fam	ily Fabaceae				
	HE THE REAL PROPERTY.		Fo	rm Round				
	文文文政		s	ize 80' Spread 80' Height				
			Fall Co	lor Greenish-yellow				
			Se	followed by long, twisted and flattened, dark purplish-brown seedpods				
		NEW TOTAL	Flow	ver Showy				
Characteristi	`	ge deciduous tree, spread is usually equ zontal, some trees become nearly flat-t	•	ning is upright-spreading to arching or				
Growing Con	ditions Zone: 3 to 8							
Growth Rate								
Disease and	which is good, bu	mildew and rust. Borers and webworms are common insect problems in some areas. Leaflets are too small to rake, which is good, but seed pods are unattractive on the tree and messy when they fall. Thorns on species plants can be just plain nasty.						
Common Var	ieties							
Where to See	Pennsylvania to I	owa south to Georgia and Texas						

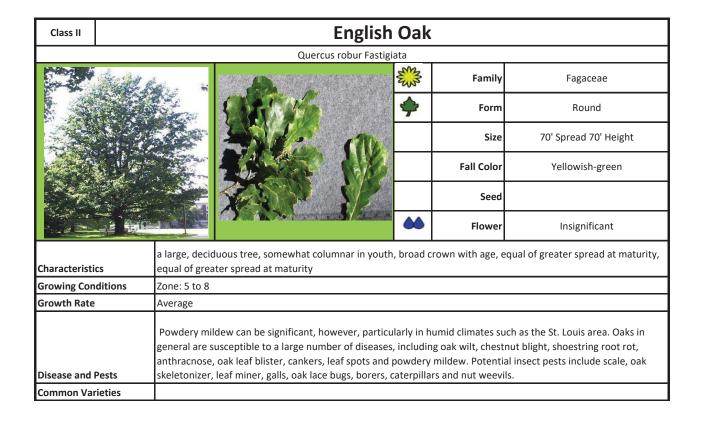
Class II	Sweetgum	Sweetgum						
	Liquidamber styraciflua							
400		Family	Altingiaceae					
Paris	→	Form	Oval- Rounded					
九号军		Size	65' Spread 75' Height					
Tan's		Fall Color	yellows, oranges, purples and reds					
		Seed						
	₩	Flower	Non-showy, monoecious, yellow- green					
Characteristics	Deciduous shade tree, Pyramidal when young, oblong to rounde	ed when matur	e, usually maintains a single leader					
Growing Conditions	Zone: 5 to 9							
Growth Rate	Medium							
Disease and Pests	No serious insect or disease problems. Webworms, caterpillars, borers and scale may cause problems in some areas. Leaf spots, wood rot and bleeding necrosis may occur. Iron chlorosis may occur in alkaline soils.							
Common Varieties								
Where to See	Eastern United States, Mexico	Eastern United States, Mexico						



Class II	White Mulberry							
	Morus alba							
All de		Family	Moraceae					
	字	Form	Broad					
400		Size	50' Spread 50' Height					
		Fall Color	unattractive yellow (sometimes green, yellow and brown)					
	\sim	Seed						
		Flower	Insignificant					
Characteristics	a deciduous, medium to large tree, dense, rounded tree, fast growin	ing						
Growing Conditions	Zone: 4 to 8							
Growth Rate	High							
Disease and Pests	No serious insect or disease problems. Borers may be a problem particular in the South. Whiteflies mass on some trees. Bacterial blight may kill foliage/branches. Coral spot cankers may cause twig dieback. Bacterial leaf scorch, powdery mildew and root rot may also occur. Watch for scale, mites and mealybugs. Messy fruit may be a concern.							
Common Varieties	'Bellaire', 'Chaparral', 'Contorta', 'Fan-San', 'Fegyvernekiana', 'Fruitless', 'Hampton', 'Illinois Everbearing', 'Itoguwa', 'Lingan', 'Laciniata', 'Mapleleaf', 'Nuclear Blast', 'Pendula', 'Pyramidalis', 'Silk Hope', 'Stribling', var. tatarica, 'Urbana', 'Widman Mitchell'							
Where to See	China							

Class II White Swamp Oak							
		Quercus bicolor					
			E COM	Family	Fagaceae		
			*	Form	Round		
	Size 60' Spread 60' Height						
				Fall Color	yellow, but sometimes reddish purple		
				Seed			
			*	Flower	Insignificant		
Characteristi	cs	a medium-sized, deciduous tree, upright oval crown, o	pen, mo	derate growth ra	ate		
Growing Con	ditions	Zone: 3 to 8					
Growth Rate		Medium					
D'		Generally a durable and long-lived tree, but is susceptible to a large number of potential diseases and insect pests, including anthracnose, canker, leaf spot, rust, blight, galls, caterpillars, borers, leaf miners, oak lace bug and oak mite. Chlorosis (yellowing of the leaves while the veins remain green) often occurs when soils are not properly					
Disease and I		acidic. Can be difficult to transplant and establish.					
Common Var							
Where to See	9	Northeastern North America					

Class II	Bur Oak					
•	Quercus macrocar	oa				
		W. Sandar	Family	Fagaceae		
		*	Form	Round		
			Size	80' Spread 80' Height		
			Fall Color	yellowish-brown		
			Seed			
A CONTRACTOR OF THE PARTY OF TH			Flower	Insignificant		
Characteristics	a large, deciduous tree, somewhat columnar in youtlequal of greater spread at maturity	n, broad ci	rown with age, e	qual of greater spread at maturity,		
Growing Conditions	Zone: 3 to 8					
Growth Rate						
Disease and Pests	susceptible to a large number of diseases, including oak leaf blister, cankers, leaf spots and powdery mile miner, galls, oak lace bugs, borers, caterpillars and n generally considered to be a low-maintenance, long-	lew. Poter ut weevils	ntial insect pests . Notwithstandin	include scale, oak skeletonizer, leaf		
Common Varieties						
Where to See	Northern and central United States, southeastern Ca	nada				

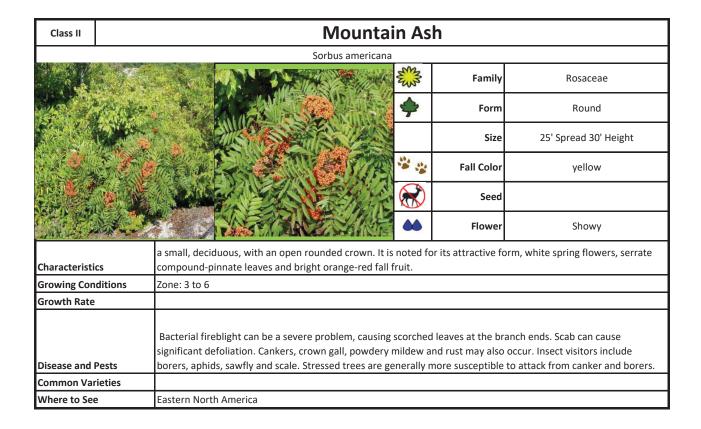


Where to See	Europe, southwestern Asia
Which to occ	Europe, Southwestern Asia

Class II		Bl	ack Locust					
		Robinia p:	seudoacacia					
5.35		m.4. 35	£ 100 mg	Family	Fabaceae			
	Sin.	(10) (11) (12) (13) (13) (13) (13) (13) (13) (13) (13	•	Form	narrow oblong			
To the same			556	Size	35' Spread 50' Height			
				Fall Color	leaves drop a yellowish-green			
				Seed				
			&	Flower	Showy, Fragrant			
Characteristics		zed deciduous tree, an upright upright upright to irregular, many cons			• •			
Growing Conditions	Zone: 3 to 8							
Growth Rate	Average							
Disease and Pests	somewhat w but also can (browns folia	a very easy-to-grow tree. It thrives in many difficult growing conditions. It is also sometimes considered to be somewhat weedy. Trees send out long underground root suckers that not only become a maintenance problem but also can disrupt nearby gardening areas. It is susceptible to locust borer (often fatal) and locust leaf miner (browns foliage). Other insect problems include caterpillars, weevils, scale and whiteflies. Possible disease problems include canker, powdery mildew, leaf spots, wood rots and verticillium wilt.						
Common Varieties								
Where to See	Eastern and	central United States						

Class II			Idaho Locust							
	Robinia xambigua 'idahoensis'									
						E STATE OF THE PERSON OF THE P	Family	Fabaceae		
					*	Form	Round			
							Size	30' Spread 40' Height		
			-15				Fall Color	Yellow, Green		
The sales	**						Seed			
						*	Flower	Showy, red		
Characteristi	cs	a graceful de	ciduous tree pri	zed its gorgeous	, pendulo	us, cluste	rs of pink flowe	ers and rugged constitution.		
Growing Con	ditions	Zone: 4 to 8								
Growth Rate		Fast								
Disease and I	Pests									
Common Var	rieties									
Where to See	е	North Americ	ca and Mexico							

Class II		Japanese F	agoda	Tree						
Sophora japonica										
Mr. s.	Anna I			Family	Fabaceae					
			•	Form	Round					
				Size	75' Spread 75' Height					
	Y			Fall Color	greenish yellow					
			\sim	Seed						
			*	Flower	Showy					
Characteristics		nedium to large tree, spread equals l arly arching over	neight, round	ed shape, branch	ing is upright and spreading and					
Growing Conditions	Zone: 4 to 8									
Growth Rate	Medium									
Disease and Pests		No serious insect or disease problems. Twig blight, verticillium wilt, canker, powdery mildew and rust may occur. Watch for leaf hoppers.								
Common Varieties				_						
Where to See	China and Ko	rea								



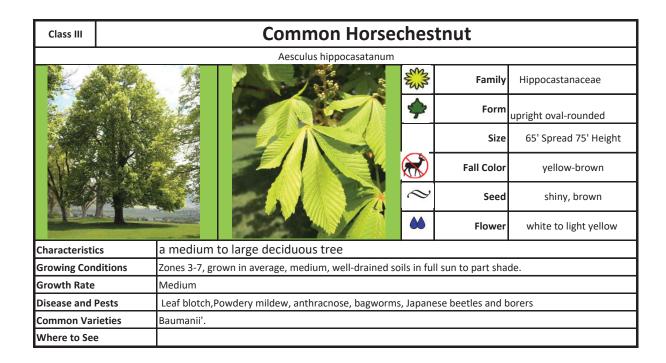
Class II				Bald Cy	press	3				
	Taxodium distichum									
		100300			E STATE OF THE PROPERTY OF THE	Family	Cupressaceae			
			$i \not = j$		*	Form				
						Size	8' Spread 20' Height			
					* 4	Fall Color	russet orange-red			
				ACT OF THE	\sim	Seed				
					*	Flower	non-flowering			
Characteristic	cs				•	0.	rees develop spreading, irregular, almost flat-topped forms			
Growing Con	ditions	Zone: 4 to 9								
Growth Rate		Medium								
Disease and I	Pests	Interesting landscape specimen or accent. Foundations, near patios or in small garden areas. Tolerates placement in moist soils or low spots.								
Common Var	ieties	Twig blight a	nd rots may occur.	Watch for spider mit	es.					
Where to See		Albany, Auck	land, New Zealand		•					

Class II				America	n Eln	n				
·	Ulmus Americana									
			A Dear	A MANAGE		Family	Ulmaceae			
					*	Form	Broad-Rounded			
		7		A STATE OF THE STA		Size	70' Spread 80' Height			
				The same		Fall Color	Reddish-green			
42.0			2 10	The still		Seed				
2015 24 416	A W		是主张		**	Flower	Insignificant			
Characteristic	cs	large, deciduo	us tree, narrow w	vith numerous branch	es coverir	ng trunk, column	ar, medium growth rate			
Growing Cond	ditions	Zone: 2 to 9								
Growth Rate		Average								
Disease and P	Pests	a fatal fungal disease spread by airborne bark beetles, attacks the water-conducting tissue of the tree, resulting in wilting, defoliation and death. Phloem necrosis is a disease caused by a phytoplasma that attacks the food-conducting tissue of the tree, usually resulting in a loosening of the bark, wilting, defoliation and death. Wetwood is a bacterial disease that results in wilting and dieback. Various wilts, rots, cankers and leaf spots may also occur. Insect visitors include borers, leaf miner, beetles, mealy bugs, caterpillars and scale.								
Common Vari	ieties									
Where to See	!	Eastern North	America							

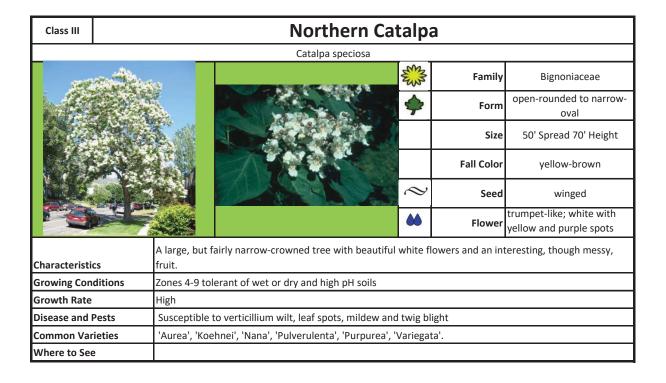
CLASS I

These trees are large sized trees that are long-lived and have large heights and trunk diameters. These trees are not for planting under or near power lines or in parking strips that are less than 10 feet wide. Typical spacing between Class III trees is 50 feet or more.

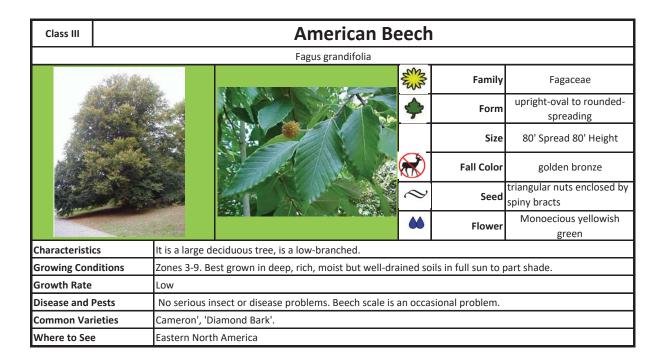
Class III		Black Maple						
·		Acer nigrum						
			W. Sandar	Family	Aceraceae			
			-	Form	round, pyramidal			
				Size	45' Spread 60' Height			
THAT				Fall Color	yellow to brownish yellow			
			\sim	Seed				
		NONE NAME	888	Flower	light yellow to white			
Characteristics	is very similar i	n appearance to sugar maple. It is a la	arge, decidu	ous tree with a	ascending branching			
Growing Conditions	Zones 4-8 With	stands high soil pH						
Growth Rate	Medium							
Disease and Pests								
Common Varieties	Commemoration	on', 'Legacy'.						
Where to See	north central a	nd northeastern North American						



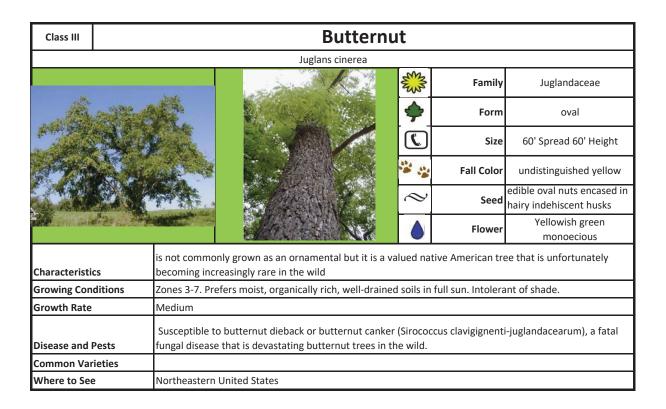
Class III		Avalanche Birch							
Betula x 'Avalzam'									
4/4/3	:	(394)			**************************************	Family	Betulaceae		
					•	Form	oval		
			A	是		Size	30' Spread 50' Height		
						Fall Color	yellow		
	W.	*			\sim	Seed			
-				1	&	Flower	insignificant		
Characteristics	s		nopy with a typica		3 feet from th	e ground, and sho	ould not be planted		
Growing Cond	itions	Zones 2-8, This	tree does best in	full sun to part	ial shade.				
Growth Rate		fast growing							
Disease and Pe	ests	has higher tha	n average resistar	nce to bronze bi	irch borer				
Common Varie	eties								
Where to See									



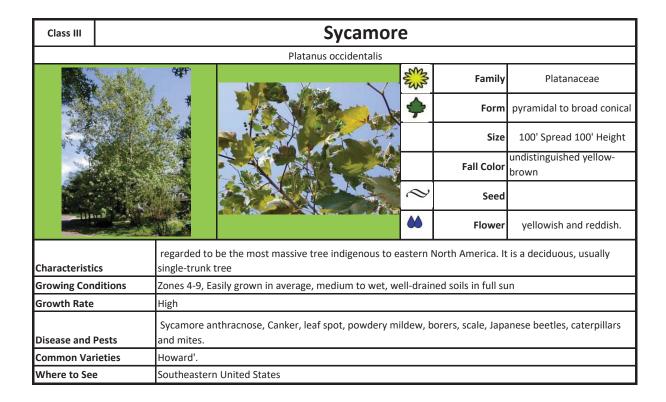
Class III		Hackberry						
•			Celtis o	ccidentalis				
		.,	No.		E	Family	Cannabaceae	
4/5	Siz All				*	Form	rounded	
						Size	60' Spread 60' Height	
					* *	Fall Color	yellow	
1.	AND SAME				\sim	Seed	round, brown	
and and the same						Flower	monoecious, greenish	
Characteristic	:s	a medium to la drier upland slo	-	e. it typically o	ccurs statev	vide in low woo	ods along streams and in	
Growing Cond	ditions	Zones 2-9, Best	grown in moist, organ	ically rich, well-	-drained soi	ls in full sun.		
Growth Rate		High						
Disease and P	ests	Powdery milde	w, leaf spot and root r	ot may occur. V	Natch for la	cebugs and sca	ile.	
Common Vari	eties	Chicagoland', 'D	elta', 'Prairie Pride', 'W	/indy City'.				
Where to See		Central and northeastern North America						



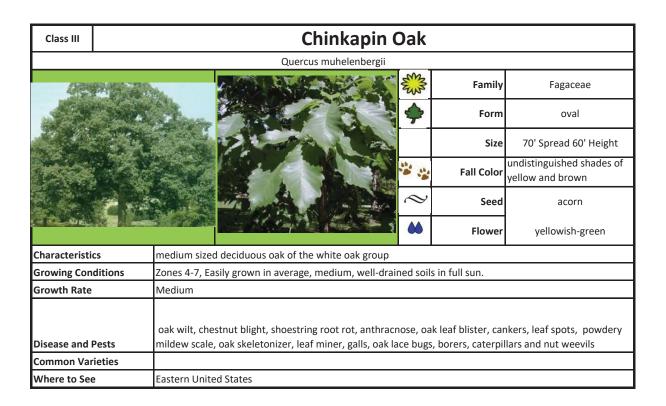
Class III	Kentucky Coffee Tree							
•	Gymnoc	ladus dioicus						
			Family	Fagaceae				
		•	Form	oval				
			Size	55' Spread 80' Height				
			Fall Color	yellow				
4.4		\sim	Seed	flattened reddish brown pods				
THE REAL PROPERTY.		&	Flower	Greenish white				
Characteristics	is a tall deciduous tree with rough, so Americans roasted the seeds for food		rge bipinnate o	compound leaves. Native				
Growing Conditions	Zones 3-8. Best grown in moist, organ	nically rich, well-drained so	ils in full sun.					
Growth Rate	Medium							
Disease and Pests	No serious insect or disease problem	No serious insect or disease problems.						
Common Varieties	Espresso', 'Prairie Titan', 'Stately Man	or'.						
Where to See	Central and eastern North America							



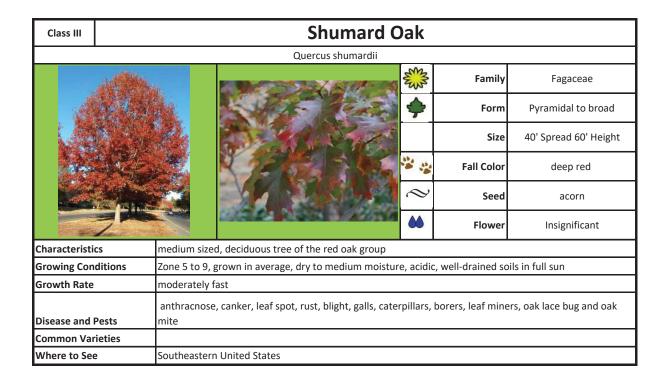
Class III			Tulip Tree								
	Liriodendron tulipifera										
	1 1	alian .				Family	Magnoliaceae				
					*	Form	pyramidal to broad conical				
						Size	50' Spread 90' Height				
\$10.0						Fall Color	nice yellow				
		.2			~	Seed	winged				
					*	Flower	large, green-yellow				
Characteristic	cs	is a large, state	•	ood is used inter a	alia for fu	rniture, plywoo	d, boatbuilding, paper pulp				
Growing Con	ditions	Zones 4-9 Bes	st grown in moist, orga	nically rich, well-d	rained loa	ams in full sun.					
Growth Rate		High									
Disease and F	Pests	aphids and s	cale. Potential diseases	include verticilliu	m wilt, m	old, mildew an	d canker.				
Common Var	ieties	Ardis', 'Arnold', 'Aureomarginatum', 'Compactum', 'Emerald City', 'Fastigiatum', 'Integrifolium', 'Mediopictum'.									
Where to See	2	Eastern North	n America								



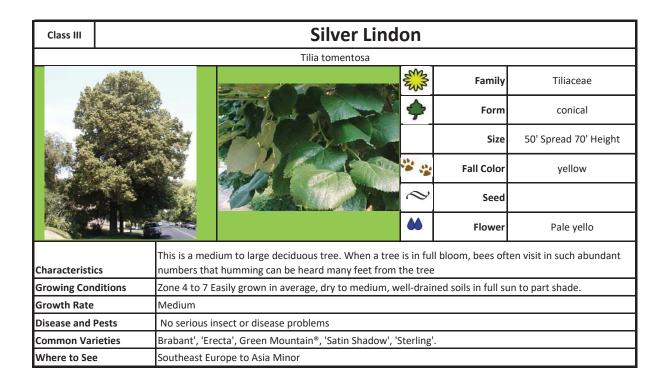
Class III	London Planetree								
		Platanus x acerfolia							
				Family	Platanaceae				
			•	Form	pyramidal to broad conical				
				Size	75' Spread 100' Height				
				Fall Color	yellow-brown				
			~	Seed					
	Lin		86	Flower	yellowish and reddish.				
Characteristics	London plan (P. orientalis	etree is a hybrid cross between Americai).	n sycamo	re (P. occidental	is) and Oriental planetree				
Growing Condition	Zones 4-9, Ea	asily grown in average, medium to wet, v	vell-drain	ed soils in full su	ın				
Growth Rate	High								
Disease and Pest	s Canker, leaf	Canker, leaf spot, powdery mildew, borers, scale, Japanese beetles, caterpillars and mites.							
Common Varietie	es Bloodgood',	Bloodgood', 'Columbia', 'Liberty', 'Mirkovec', 'Yarwood'.							
Where to See									



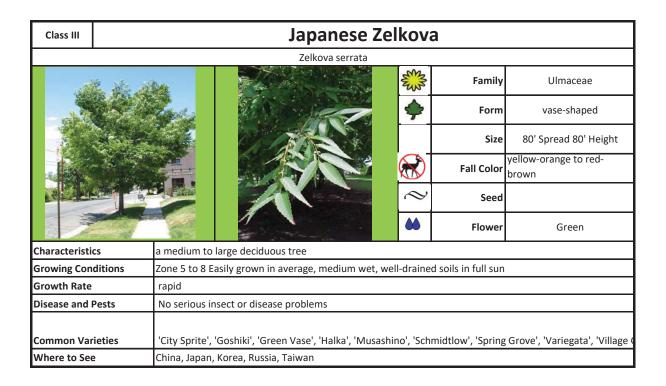
Class III		Northern Red Oak					
			Quercus rubra				
	A.			- F	Family	Fagaceae	
				•	Form	irregular	
					Size	75' Spread 75' Height	
				* * *	Fall Color	brownish-red	
				\sim	Seed	acorn	
				**	Flower	Monoecious	
Characteristics	A me	edium sized, decidud	ous tree				
Growing Condi		e 4 to 8 Easily grown y-textured soils with	- · · ·	ım moisture, aci	idic soil in full s	un. Prefers fertile, sandy,	
Growth Rate	mod	erate-to-fast					
Disease and Pe	ests oak	wilt which is a syste	mic fungal disease that h	nas no cure. Chlo	orosis		
Common Varie	eties Aure	Aurea', 'Splendens'.					
Where to See	East	ern North America					



Class III	Ame	American Linden						
•	Tilia a	mericana						
	A		Family	Tiliaceae				
		•	Form	conical				
		C	Size	55' Spread 35' Height				
			Fall Color	green or yellowish				
			Seed					
		*	Flower	light yellow				
Characteristics	Large shade tree, with nice, fragrant fl	lowers and pleasing foliage.	•					
Growing Conditions	Zones 2-9 does well on soils with fairly	/ high pH						
Growth Rate	Medium							
Disease and Pests	Free of most serious pests, though ap	Free of most serious pests, though aphids can be a nuisance in some years.						
Common Varieties	Bailyard', 'Boulevard', 'Dakota' 'Dougla	Bailyard', 'Boulevard', 'Dakota' 'Douglas', 'Fastigiata', 'Lincoln', 'Redmond', 'Rosehill', 'Sentry', 'Wandell'.						
Where to See	northern and eastern U.S.							



Class III		Lacebark Elm					
·			Ulmus parvifolia				
A 30	Je				Family	Ulmaceae	
				•	Form	rounded	
					Size	40' Spread 50' Height	
	1				Fall Color	yellows or reddish-purples	
				\sim	Seed		
AND THE PARTY OF T	A. S			***	Flower	Reddish-green	
Characteristics	1	a medium-size	ed deciduous tree, It is noted for its e	excellent folia	ge, multi-color	ed bark	
Growing Condi	itions	Zone 4 to 9 Gr	row in average, medium moisture, w	ell-drained so	oils in full sun		
Growth Rate		rapid					
Disease and Pe	ests	wilts, rots, ca	ankers and leaf spots				
		'Burgundv'. 'C	Caitlin', 'Central Park Splendor', 'Drak	e', 'Dynastv'.	'Emerald Isle'.	Emerald Vase', 'Golden	
Common Varie	ties		hoice', 'Ohio', 'Prairie Shade'.	, , ,, ,	,	,	
Where to See		China, Korea,	Japan				



Class III		Green Ash					
Fraxinus pennsylvanica							
100	The second little	Em3	Family	Oleaceae			
		•	Form	rounded but usually irregular crown			
as a			Size	50' Spread 70' Height			
			Fall Color	yellow			
	In A		Seed				
			Flower	dioecious; small and inconspicuous, arranged in clusters; appear in spring as leaves expand.			
Characteristic	cs	a medium to large, deciduous tree, oval, upright crown, fast growth	rate				
Growing Cond	ditions	Zone: 3 to 9					
Growth Rate		High					
Disease and P	Pests	Green ash trees are generally susceptible to a number of additional insect problems including ash borer, lilac borer, carpenter worm, oyster shell scale, leaf miners, fall webworms, ash sawflies and ash leaf curl aphid. Potential disease problems include fungal leaf spots, powdery mildew, rust, anthracnose, cankers and ash yellows. General ash decline is also a concern. Brittle branches are susceptible to damage from 'Jewell', 'Johnson', 'Kankakee', 'Kindred', 'King Richard', 'Lednaw', 'Leeds', 'Marshall's Seedless', 'Patmore',					
Common Vari	ieties	'Rugby', 'Robinhood', Sherwood Glen™, 'Summit', Urbanite®, 'Wahpe	eton', 'Wa	ndell'			
Where to See	!	Great Plains east, including southern Canada					

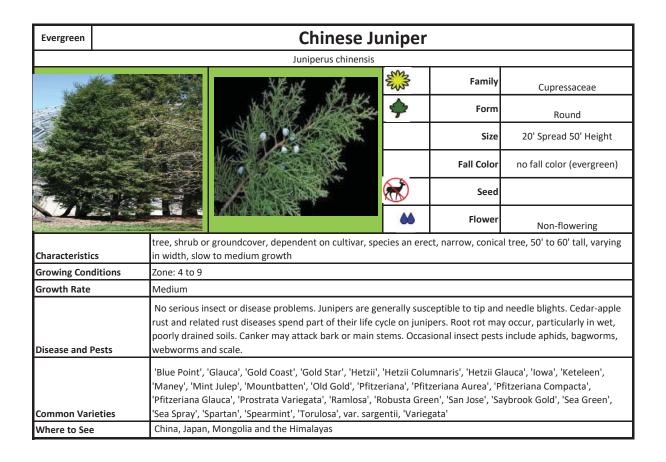
These trees are evergreen and hold their needles through the winter providing color through the cold months. These trees also provide wind breaks and great habitats for animals. Evergreen trees range in spread and height. Evergreen trees should not be planted in park strips or parking island areas.

Evergreen	White Fir	White Fir						
	Abies concolor							
*		Family	Pinaceae					
- 214	→	Form	Spire-like					
		Size	30' Spread 70' Height					
		Fall Color	no fall color (evergreen)					
		Seed						
		Flower	Non-flowering					
Characteristics	evergreen tree, pyramidal in shape, holding a dense, formal shape rate, easily transplanted, tolerant of most climates and city condition	•	ge, slow to medium growth					
Growing Conditions	Zone: 3 to 7							
Growth Rate	Medium							
Disease and Pests	No serious insect or disease problems. Insect pests include balsam budworms, aphids, bagworms and scale. Spider mites may occur in rot, needle rust and twig blight. Trees are generally intolerant of ur sites for fungal infections. Strong winds may damage taller trees.	hot conditions. [Disease problems include root					
Common Varieties								

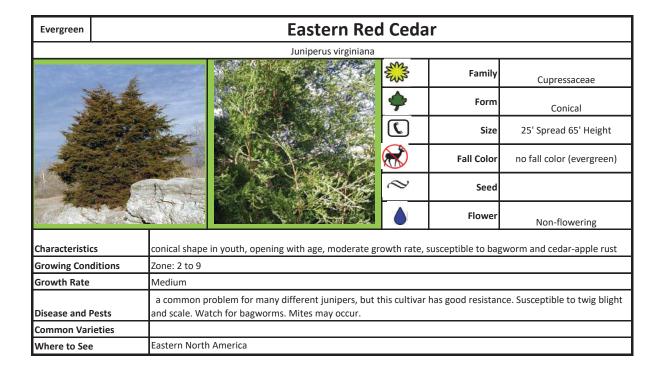
(

Evergreen			California Incense cedar					
			Cal	ocedrus decurrens				
				Z ZZBANA		Family	Cupressaceae	
	300	5			*	Form	Round	
		45 0				Size	10' Spread 50' Height	
						Fall Color	no fall color (evergreen)	
	7 g - 4			THE RESERVE		Seed		
					86	Flower	Non-flowering	
		is an aromati	c evergreen conifer w	ith upright branchii	ng that is na	rrow-columnar in	youth but may broaden with	
Characteristic	s	age to conica	sometimes with a rou	unded crown.				
Growing Cond	ditions	Zone: 5 to 8						
Growth Rate		Low						
Disease and P	ests	No serious in	sect or disease proble	ms. Heart rot and r	ust may occ	ur in some areas.		
Common Vari	eties							
Where to See	!	Western Unit	ed States, Mexico					

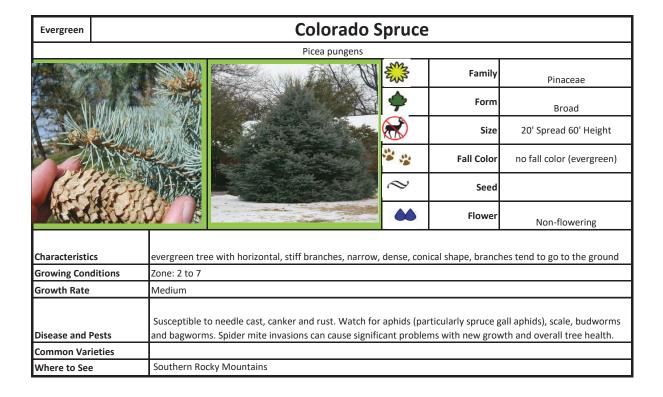
Evergreen		Blue Atlas Cedar							
Cedrus atlantica glauca									
			E	Family	Pinaceae				
			•	Form	Conical				
				Size	40' Spread 60' Height				
				Fall Color	no fall color (evergreen)				
				Seed					
Y The second second			44	Flower	Non-flowering				
Characteristics	, ,	e conifer, pyramidal when young, fla branching somewhat sparse, especia							
Growing Conditions	Zone: 6 to 9								
Growth Rate	Low								
Disease and Pests		t or disease problems. Tip blight ma	•	•					
Common Varieties		a', 'Compacta', 'Fastigiata', 'Glauca', '	Glauca Pendu	ıla', 'Horstmann',	'Horstmann Silberspitz',				
Where to See		in Morocco and Algeria		'Pendula' Atlas Mountains in Morocco and Algeria					



Evergreen	Rocky Mountain Juniper						
		Juniperus osteosperma					
L.M.	- K.	***	Family	Cupressaceae			
		+	Form	Conical			
			Size	6' Spread 15' Height			
			Fall Color	no fall color (evergreen)			
			Seed				
		₩	Flower	Non-flowering			
Characteristics		shape, opening when mature, branches are so f most conditions , except wet soils	mewhat vertical grov	ving, slow to moderate growth			
Growing Conditions	Zone: 3 to 7						
Growth Rate	Medium						
Disease and Pests	particularly in u	No serious insect or disease problems. Junipers are generally susceptible to blights (dieback of stem tips), particularly in unusually rainy/wet springs. Phomopsis twig blight is of particular concern. Cedar-apple and related rust diseases spend part of their life cycle on junipers. Root rot may occur, particularly in wet, poorly drained soils. Occasional insect pests include aphids, bagworms, twig borers, webworms and scale. Watch for					
Common Varieties		Blue Creeper', 'Blue Heaven', 'Blue Trail', 'Cologreen', 'Gray Gleam', 'Medora', 'Moonglow', 'Pathfinder', 'Skyrocket', 'Sutherland', 'Tolleson', 'Tolleson's Blue Weeping', 'Tolleson's Green Weeping', 'Welchii', 'Wichita					
Where to See	Western Great	Plains throughout the Rocky Mountains and so	uthwestern Canada,	ncluding Utah			



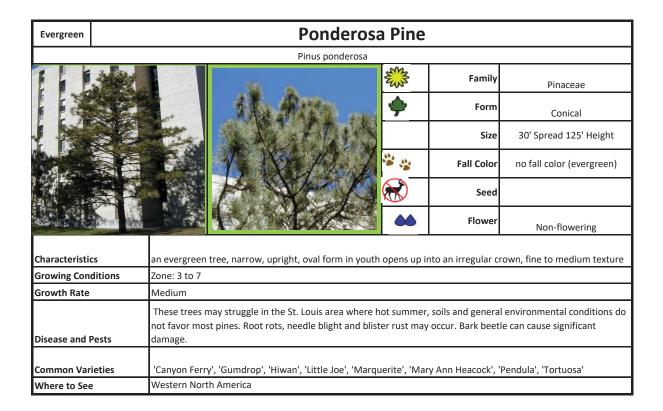
Evergreen		European Larch							
	Larix decidua								
	A STATE OF THE STA	Famil	y Pinaceae						
		Form	n Broad						
100		Siz	e 30' Spread 100' Height						
		Fall Cold	r no fall color (evergreen)						
		See	d						
		Flower	r Non-flowering						
Characteristic	cs	deciduous conifer, pyramidal in habit with horizontal branches and weeping bran with age	chlets, becomes more irregular						
Growing Cond	ditions	Zone: 2 to 6							
Growth Rate	·	High							
Disease and P		Potential disease problems include needle cast, needle rust and canker.	Potential insect pests include larch case-bearer, aphids, larch sawfly, tussock moth and Japanese beetle. Potential disease problems include needle cast, needle rust and canker.						
Common Vari	ieties	Fastigiata', 'Pendula', 'Varied Directions'							
Where to See	!	Central and Southern Europe							



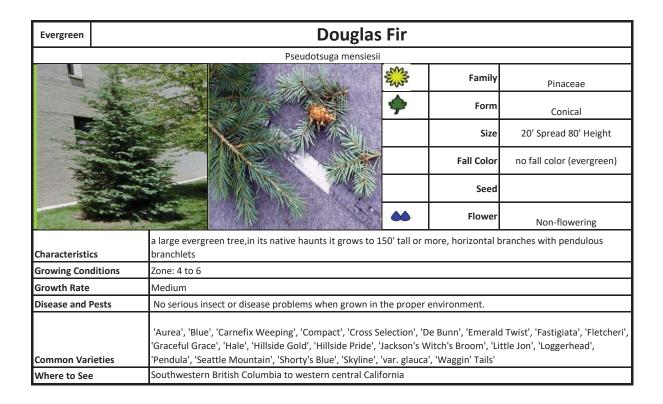
Evergreen		Bristlecone Pine					
•		Pinus aristata					
			**************************************	Family	Pinaceae		
			•	Form	Conical		
			()	Size	20' Spread 20' Height		
				Fall Color	no fall color (evergreen)		
		4	~	Seed			
				Flower	Non-flowering		
	I -	nall tree,dwarf and irregular growth hab	it, dwarf and i	irregular growth h	nabit, very slow growth rate,		
Characteristics	making matu	re height irrelevant					
Growing Condition	S Zone: 5-7						
Growth Rate	Low						
Disease and Pests							
Common Varieties	'Sherwood C	Compact'					
Where to See	mountainous	s areas in the interior West, including Ut	ah				

Evergreen			Limber I	Pine		
			Pinus flexilis			
3		lis:			Family	Pinaceae
				•	Form	Conical
		No.			Size	40' Spread 60' Height
		23,	TO STATE		Fall Color	no fall color (evergreen)
			ZANAMI.		Seed	
				86	Flower	Non-flowering
Characteristic	cs		edle conifer, about half as wide as tall, do I crown ascending	ense, pyramio	dal when young,	when mature, develops as flat-
Growing Con	ditions	Zone: 4 to 7				
Growth Rate		Low				
		an adaptable, low-maintenance tree with few problems. It is susceptible to certain rots and blights, but its most dangerous enemy is white pine blister rust which is a bark disease that is usually fatal. Species of Ribes (e.g., currants and gooseberries) are the alternate host for white pine blister rust and should not be planted in areas where limber pines or white pines are under attack. White pine blister rust is not considered to be a problem in				
Disease and I	Pests	· ·	vever. Aphids, weevils, spider mites and s			
Common Var	ieties	'Columnaris', 'Vanderwolf's	. 'Extra Blue', 'Glauca', 'Glauca Pendula', ' s Pyramid'	Glenmore Dv	varf', 'Millcreek',	'Nana', 'Pendula',
Where to See	<u> </u>	Southwesterr	Canada to western United States		·	

Evergreen	Austrian Pi	ne	
•	Pinus nigra		
	S. S	Family	Pinaceae
		Form	Round
		Size	40' Spread 60' Height
7.5		Fall Color	no fall color (evergreen)
		Seed Seed	
	- Charles All All All All All All All All All Al	Flower	Non-flowering
Characteristics	evergreen needle conifer tree, medium to large size, pyram topped, with spreading branches and umbrella shape	nidal and dense when yo	ung, with age becoming flat-
Growing Conditions	Zone: 4 to 7		
Growth Rate	Medium		
	its susceptibility to Sphaeropsis (Diplodia) tip blight, partice planting it in the St. Louis area is not now recommended. A	•	-
Disease and Pests	moth and pine wilt nematode may appear.		
Common Varieties	Arnold Sentinel', 'ENCI', 'Hornibrookiana', 'Pyramidalis'		
Where to See	Central and southern Europe		



Evergreen				S	cotch F	Pine		
				Pinus	sylvestris			
65. 55. 55.			MIM		MESS.		Family	Pinaceae
		8				*	Form	Conical
	-				1			40' Spread 60' Height
A. A	illa de la companya d					* *	Fall Color	no fall color (evergreen)
	ALL PARTY			No.		~	Seed	
	ida .		7	- All		86	Flower	Non-flowering
Characteristics	5	_	-	has a conical sha horizontal branc		g a flat-topp	ed, spreading tre	e with age, can be very
Growing Cond	itions	Zone: 2 to 7	Zone: 2 to 7					
Growth Rate		Medium						
Disease and Pe	ests			p blight can be a may also appea		roblem in so	me areas. Watch	for pine wilt nematode.
Common Varie	eties	Aurea', 'Beuv	ronensis', 'Fa	astigiata', 'Wate	reri'			
Where to See		Siberia to eas	stern Asia, Eu	urope				



Evergreen	Giar	Giant Sequoia		
•	Sequoiadendro	on giganteum		
	We will be the second	W.	Family	Cupressaceae
		•	Form	Conical
			Size	60' Spread 275' Height
		Fa	ll Color	no fall color (evergreen)
1			Seed	
all I may			Flower	Non-flowering
Characteristics	most massive size of any tree in the world. It evergreen conifer	t is an erect, single-trunk (ofter	buttres	sed at the base), needled
Growing Conditio	ns Zone: 6 to 8			
Growth Rate	Medium			
Disease and Pests	No serious insect or disease problems. Dieb	ack, blight and butt rot may oc	cur.	
Common Varietie	Argentea', 'Aurea', 'Barabit's Requiem', 'Blau 'Hazel Smith', 'Little Stan', 'Moonie's Mini', 'I	•		
Where to See	Californina			



Park Strip and Parking Lot Approved Trees:

Common Name

Japanese Zelkova 'Musashino'

Chanticleer Pear

Crimson Sunset Maple

Columnar Washington Hawthorn

Crimson Point Flower plum

Columnar English Oak

Columnar Sweetgum

Autumn Purple Ash

Washington Hawthorn

Tatarian Maple

Trident Maple

Hedge Maple

Golden Raintree

Paperbark Maple

Eastern Redbud

Bigtooth Maple

Norway Maple

Autumn Blaze Maple

Littleleaf Lindon

Common Hackberry

Autumn Purple Ash

L N N N N

Columnar Trees:

Common Name

Japanese Zelkova 'Musashino'

Chanticleer Pear

Crimson Sunset Maple

Columnar Washington Hawthorn

Crimson Point Flower Plum

Columnar English Oak

Columnar Sweetgum

Columnar Colorado Blue Spruce

Columnar Norway Spruce

Weeping White Spruce

Skyrocket Juniper

Common Hackberry 'Delta'



Alpine Planning & Zoning

(801) 756-6347

20 North Main

Alpine, Utah 84004

ALPINE PLANNING COMMISSION AGENDA

SUBJECT: 2019 Planning Commission Meeting Schedule

FOR CONSIDERATION ON: 6 November 2018

PETITIONER: Staff

ACTION REQUESTED BY PETITIONER: Review and approve schedule.

BACKGROUND INFORMATION:

Staff have prepared a proposed meeting schedule for Planning Commission meetings in 2019. Dates that seemed to conflict with holidays and/or other events have been omitted. Planning Commission should review the proposed schedule, amend as necessary, and approve a meeting schedule for 2019.

STAFF RECOMMENDATION:

Review and approve the 2019 Planning Commission meeting schedule.



2019 ANNUAL MEETING SCHEDULE FOR ALPINE CITY, UTAH

PLANNING COMMISSION MEETINGS for the 2019 calendar year are scheduled on the 1st and 3rd Tuesday of each month as follows unless otherwise indicated:

January 15	May 7	August 20
February 5	May 21	September 3
February 19	June 4	September 17
March 5	June 18	October 1
March 19	July 2	October 15
April 2	July 16	November 19
April 16	August 6	December 3

CITY COUNCIL MEETINGS for the 2019 calendar year are scheduled on the 2nd and 4th Tuesday of each month as follows unless otherwise indicated:

January 8	May 14	September 10
January 22	May 28	September 24
February 12	June 11	October 8
February 26	June 25	October 22
March 12	July 9	November 12
March 26	July 23	November 26
April 9	August 13	December 10
April 23	August 27	

All Planning Commission and City Council meetings will begin at 7:00 pm unless otherwise posted. Meetings are held at Alpine City Hall, 20 North Main, Alpine, Utah 84004.

Charmayne G. Warnock City Recorder

THE PUBLIC IS INVITED TO ATTEND ALL PUBLIC CITY MEETINGS. If you need a special accommodation to participate in the meeting, please call the City Recorder's Office at 801-756-6347 ext. 4.

CERTIFICATION OF POSTING. The undersigned duly appointed recorder does hereby certify that the above agenda notice was posted in three public places within Alpine City limits. These public places being a bulletin board located inside City Hall at 20 North Main and located in the lobby of the Bank of American Fork, Alpine Branch, 133 S. Main, Alpine, UT; and the bulletin board located at The Junction, 400 S. Main, Alpine, UT. The above agenda notice was sent by e-mail to The Daily Herald located in Orem, UT and local newspapers circulated in Alpine, UT. This agenda is also available on the City's web site at www.alpinecity.org and on the Utah Public Meeting Notices website at www.utah.gov/pmn/index.html.

ALPINE PLANNING COMMISSION AGENDA

SUBJECT: Planning Commission Minutes October 16, 2018

FOR CONSIDERATION ON: 6 November 2018

PETITIONER: Staff

ACTION REQUESTED BY PETITIONER: Approve Minutes.

BACKGROUND INFORMATION:

Minutes from the October 16, 2018 Planning Commission Meeting.

STAFF RECOMMENDATION:

Review and approve the Planning Commission Minutes.

ALPINE CITY PLANNING COMMISSION MEETING 1 Alpine City Hall, 20 North Main, Alpine, UT 2 October 16, 2018 3 4 5 I. GENERAL BUSINESS 6 7 **A. Welcome and Roll Call**: The meeting was called to order at 7:00 pm by Chairman 8 David Fotheringham. The following were present and constituted a quorum: 9 10 Chairman: Dave Fotheringham 11 Commission Members: Alan MacDonald, John MacKay, David Fotheringham, Jane Griener, John Gubler 12 Excused: Sylvia Christiansen, Bryce Higbee 13 Staff: Austin Roy, Marla Fox, Jed Muhlestein 14 Others: Gail Rudolph 15 16 17 **B.** Prayer/Opening Comments: Alan MacDonald C. Pledge of Allegiance: David Fotheringham 18 19 20 II. PUBLIC COMMENT 21 There were no public comments. 22 23 III. ACTION ITEMS 24 A. Trail Master Plan – Proposed Update – October 2018 25 26 Note: Item B was discussed before Item A. 27 Jed Muhlestein said the Alpine City Trail Committee reviewed and made recommendations for 28 updates to the proposed Trail Master Plan. He said the last trail plan was adopted in 2004, and 29 since that time there had been annexations to the City that were added to the map. Some trails 30 were not working and had been abandoned. Several additions had also been added to the map 31 including recent developments, all of which made it necessary to update the plan. 32 33 Breezy Anson stated that a trail through the Mendenhall ranch area would be very beneficial. He 34 also suggested adding a trail from 800 South through the Bangerter property and connecting to 35 the Corridor. He then presented a map depicting a proposed trail through his parents' property

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Jed Muhlestein said the Planning Commission could approve the plan as presented and then let the City Council make changes as they saw fit. Breezy Anson subsequently discussed the trail going through Schoolhouse Springs.

off of Westfield Road heading north. The map also showed several proposed trails going

through the Ridge at Alpine development. He said he believed there could be a better plan for a

43 44 trail that looped around the property.

The Planning Commission had a discussion about a trail that the City currently did not have permission to use because it went through private property. Will Jones said he was working with the owner and trying to give concessions so the trail could be opened to the public.

Jed Muhlestein said in 2004 the City had trails on private property and the owners asked that they be removed from off of the map. Gail Rudolph said there was an existing trail to the left of the Young property in Fort Canyon, and she wanted to know if these trails were marked or recorded somewhere.

Will Jones showed on the Master Plan where a trail was located on Draper City property. Alan Macdonald stated that the City should revisit the Trail Master Plan every year. The Planning Commission then had a discussion about e-bikes.

MOTION: Bryce Higbee moved to recommend approval of the proposed Master Trail Plan as proposed with the changes made to the trails and the dates changed to 2018. John Mackay seconded the motion. There were 5 Ayes and 0 Nays (recorded below). The motion passed.

Ayes: Alan MacDonald None John MacKay John Gubler David Fotheringham Jane Griener

B. Public Hearing – Amendment to Ordinance – Major Subdivision Option – Article 4.6

Note: Item B was discussed before Item A.

Jed Muhlestein said that Staff reviewed the Development Code and recommended changes for Article 4.6: Major Subdivision Option. He explained that Article 4.6 covered the subdivision submission process. The first couple of updates pertained to the number of copies submitted to City Hall, which was changed to two. Jed Muhlestein added a 10-day timeline for resubmissions and said first-time submissions were required to be turned in two weeks before the next meeting.

 Regarding buildable areas, Jed Muhlestein said they had 20% or less slope and no faults. Staff wanted to make it clear to developers that if there were hilly areas in a standard subdivision, they would want the buildable areas recorded on the plat. He explained that he was trying to clean up the buildable area paragraphs and combine them together so they made sense. The following changes were then noted:

- Builders needed to put the address block on the plat.
- Geotechnical was moved into the supporting document section.
- The "sensitive lands overlay" line was removed. Developers needed to label the sensitive land areas as depicted on the geological hazard maps.

- Geotechnical reports would be required for every subdivision and would include common items related to these reports.
 - There were several numbering changes under the section labeled "Impact on Environment."
 - The line about soil classifications was deleted.
 - The Erosion Plan was changed to Storm Water Prevention Plan.
 - The sentence stating "Planning Commission will notify developer in writing" was removed.
 - Final plats were required to be turned in on Mylar.
 - The TR-10,000 zone was not included in the buildable areas
 - Lots had to meet the current building code.
 - No backing on to arterial streets was allowed and notes should be included on the plat stating that circular driveways were needed.
 - Item #4 under surveys was deleted.
 - Utilities may send letters stating they would Serve the developer.
 - The City Planner would send notification to the City Council after the final review of the Final Plat from the Planning Commission.

David Fotheringham opened the Public Hearing.

Gail Rudolph, a resident, asked what a derelict parcel was. Jed Muhlestein said this was a parcel that was not buildable. Ms. Rudolf also asked about traffic studies and wanted to know who conducted these assessments. She was informed by staff that these were conducted by independent traffic engineers.

David Fotheringham closed the Public Hearing.

MOTION: John Mackay moved to recommend approval of the Amendments to Ordinance – Major Subdivision Option – Article 4.6. Alan MacDonald seconded the motion. There were 5 Ayes and 0 Nays (recorded below). The motion passed.

Aves:
Alan MacDonald
None
John MacKay
David Fotheringham
John Gubler
Jane Griener

C. Public Hearing – Amendment to Ordinance – Design Standards – Article 4.7

Jed Muhlestein said Staff reviewed the Development Code and recommended additional language to outline minimum curb radii under Article 4.7.4.11. He said the minimum radius of curb, or the outside edge of pavement, needed to be added. He explained that it should be twenty-five feet at intersections.

1	David Fotheringham opened the Public Hearing. There were no comments and the hearing was
2	closed.
3	Clobed.
4	MOTION: Alan Macdonald moved to recommend approval of Amendment to Ordinance –
5	Design Standards – Article 4.7.
6	Design Standards There in i
7	Jane Griener seconded the motion. There were 5 Ayes and 0 Nays (recorded below). The
8	motion passed.
9	
10	Ayes: Nays:
11	Alan MacDonald None
12	John MacKay
13	John Gubler
14	David Fotheringham
15	Jane Griener
16	
17	
18	IV. Communications
19	The Christmas Party was scheduled for Tuesday, December 11, 2018. The remaining Planning
20	Commission meetings for this year were scheduled for November 6, 2018, and December 4,
21	2018.
22	
23	V. APPROVAL OF PLANNING COMMISSION MINUTES: September 18, 2018
24	
25	MOTION: Jane Griener moved to approve the minutes for September 18, 2018, as written.
	MOTION: Jane Griener moved to approve the minutes for September 18, 2018, as written. Alan MacDonald seconded the motion. There were 5 Ayes and 0 Nays (recorded below). The
25	
25 26	Alan MacDonald seconded the motion. There were 5 Ayes and 0 Nays (recorded below). The
25 26 27	Alan MacDonald seconded the motion. There were 5 Ayes and 0 Nays (recorded below). The motion passed. <u>Ayes:</u> <u>Nays:</u>
25 26 27 28	Alan MacDonald seconded the motion. There were 5 Ayes and 0 Nays (recorded below). The motion passed. Ayes: Alan MacDonald None
25 26 27 28 29	Alan MacDonald seconded the motion. There were 5 Ayes and 0 Nays (recorded below). The motion passed. <u>Ayes:</u> <u>Nays:</u>
25 26 27 28 29 30	Alan MacDonald seconded the motion. There were 5 Ayes and 0 Nays (recorded below). The motion passed. Ayes: Alan MacDonald John MacKay David Fotheringham
25 26 27 28 29 30 31	Alan MacDonald seconded the motion. There were 5 Ayes and 0 Nays (recorded below). The motion passed. Ayes: Alan MacDonald John MacKay David Fotheringham Jane Griener
25 26 27 28 29 30 31 32 33 34	Alan MacDonald seconded the motion. There were 5 Ayes and 0 Nays (recorded below). The motion passed. Ayes: Alan MacDonald John MacKay David Fotheringham
25 26 27 28 29 30 31 32 33	Alan MacDonald seconded the motion. There were 5 Ayes and 0 Nays (recorded below). The motion passed. Ayes: Alan MacDonald John MacKay David Fotheringham Jane Griener