Plant Material Selection Matrix

MSP Historic Area

* Indicates poisonous **Indicates thorned

Botanical Name	Common Name	Plant Type			Shape								Growth Rate			Flowering			Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses							Notes
		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular	Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier	
		Plant Characteristics																			Plant Culture										Landscape Use							
TREES																																							
Acer rubrum*	Red Maple	∇		∇			∇						∇		∇					∇	∇	∇		∇			∇					∇		∇	∇		∇		Specify 'Red Sunset', 'October Glory', or 'Armstrong'
Acer saccharum	Sugar Maple	∇		∇			∇							∇						∇		∇		∇			∇	∇				∇	∇	∇	∇		∇		Specify 'Legacy'
Celtis laevigata	Sugar Hackberry	∇		∇			∇						∇							∇	∇			∇	∇	∇			∇	∇	∇		∇	∇	∇	∇	∇		Specify 'All Season' or 'Magnifica'
Celtis occidentalis	Kentucky Coffeetree	∇		∇			∇						∇							∇	∇			∇	∇	∇			∇	∇	∇		∇	∇	∇		∇		
Cercis canadensis	Redbud	∇		∇						∇			∇		∇					∇		∇		∇	∇	∇	∇					∇		∇	∇		∇		'Forest Pansy' purple leaf form
Cornus florida	Flowering Dogwood	∇		∇						∇				∇	∇				∇	∇		∇					∇					∇					∇		Specify 'Cherokee Princess' or 'Rubra'
Cornus kousa	Kousa Dogwood	∇					∇							∇	∇				∇	∇		∇		∇			∇		∇	∇		∇		∇			∇		Specify var. 'chinensis' or 'Milky Way'
Fraxinus americana	White Ash	∇		∇			∇						∇							∇	∇					∇							∇	∇		∇	∇		
Gleditsia triacanthos 'inermis' *	Thornless Honeylocust	∇		∇						∇		∇								∇	∇	∇				∇				∇	∇		∇	∇		∇	∇		Specify 'Moraine' or 'Shademaster'
Gymnocladus dioicus	Kentucky Coffeetree	∇		∇			∇						∇			∇				∇	∇	∇				∇	∇		∇	∇	∇	∇		∇			∇		

Plant Material Selection Matrix

MSP Historic Area

* Indicates poisonous **Indicates thorned

Botanical Name	Common Name	Plant Type			Shape								Growth Rate			Flowering				Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses							Notes
		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular	Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier	
		Plant Characteristics																			Plant Culture										Landscape Use							
TREES																																							
Ilex opaca*	American Holly		∇	∇	∇						∇			∇	∇			∇	∇			∇		∇		∇	∇				∇	∇		∇			∇			Requires 1 male and 2 females for fruit. Not wind tolerant, Avoid high pH soils
Juniperus virginiana	Eastern Red Cedar		∇	∇		∇			∇				∇					∇				∇	∇	∇	∇	∇	∇		∇	∇	∇			∇	∇			∇	
Liquidambar s. 'Rotundiloba'	Fruitless Sweetgum	∇		∇			∇					∇								∇	∇			∇		∇						∇		∇	∇		∇		
Picea abies	Norway Spruce		∇		∇								∇									∇				∇	∇			∇				∇	∇		∇		
Quercus alba	White Oak	∇		∇			∇				∇		∇		∇					∇	∇	∇		∇		∇	∇		∇	∇	∇	∇		∇			∇	∇	
Quercus macrecarpa	Burr Oak	∇		∇			∇				∇		∇		∇				∇			∇		∇		∇	∇		∇	∇	∇	∇		∇		∇			
Quercus palustris *	Pin Oak	∇		∇	∇							∇								∇	∇			∇		∇							∇	∇					Develops iron chlorosis in high pH soils
Quercus rubra *	Northern Red Oak	∇		∇			∇					∇								∇		∇		∇		∇			∇			∇	∇	∇	∇	∇	∇		Develops iron chlorosis in high pH soils
Thuga oocidentalis	Arborvitae		∇			∇							∇					∇				∇	∇			∇			∇	∇	∇			∇		∇			
Tilia americana	Basswood	∇		∇			∇						∇			∇						∇				∇	∇							∇	∇		∇		Specify 'Rosehill', 'Douglas' or 'Redmond'
Ulmus Americand "Liberty"	Liberty Elm	∇		∇			∇			∇			∇		∇					∇	∇	∇				∇	∇		∇	∇	∇	∇	∇			∇	∇		
Magnolia x soulangiana	Saucer Magnolia	∇					∇						∇		∇						∇	∇		∇		∇					∇	∇					∇		Prefers soil pH between 5,0 to 6.5
Malus x 'Donald Wyman'	Donald Wyman Crabapple	∇									∇		∇		∇				∇			∇		∇		∇			∇					∇	∇		∇		Other disease resistant crabapples include: 'Adirondack', 'Beverly', 'Molten Lava', 'Sentinel', 'David',
Malus x 'Sugar Tyme'	Sugar Tyme Crabapple	∇				∇							∇		∇				∇			∇		∇		∇			∇					∇	∇		∇		
Malus x 'Prairiefire	Prairiefire Crabapple	∇									∇		∇		∇				∇			∇		∇		∇			∇					∇	∇		∇		
Platanus occidentals	American Planetree	∇		∇			∇				∇	∇			∇			∇			∇	∇	∇	∇	∇	∇	∇			∇	∇	∇				∇			
Taxodium distichum	Bald Cypress	∇		∇	∇								∇								∇	∇	∇	∇		∇				∇	∇		∇	∇		∇			

Plant Material Selection Matrix

MSP Historic Area		Plant Type			Shape							Growth Rate			Flowering			Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses							
* Indicates poisonous	**Indicates thorne	Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular	Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier	
Botanical Name	**Common Name**	**Plant Characteristics**																			**Plant Culture**											**Landscape Use**							**Notes**
SHRUBS																																							
Berberis mentorensis**	Mentor Barberry	∇					∇					∇			∇					∇		∇	∇			∇	∇		∇					∇	∇	∇	∇	∇	Good hedge plant
Berberis thunbergii atropurpurea**	Japanese Red Barberry	∇					∇						∇					∇	∇	∇		∇	∇			∇				∇	∇			∇	∇	∇	∇	∇	Specify ‘Crimson Pygmy’ or ‘Rose Glow’
Cotoneaster divaricata	Spreading Cotoneaster	∇								∇			∇		∇				∇	∇		∇	∇	∇	∇	∇	∇		∇					∇			∇		
Euonymous alatus 'Compactus' *	Dwarf Burning Bush	∇								∇				∇						∇		∇	∇			∇	∇	∇	∇					∇	∇	∇	∇	∇	Favorite for deer
Hybiscus syriacus	Rose of Sharon	∇							∇				∇			∇					∇	∇	∇			∇	∇		∇	∇	∇			∇				∇	
Juniperus chinensis	Chinese Juniper		∇							∇			∇		∇			∇				∇	∇	∇	∇	∇	∇			∇	∇		∇	∇				∇	Hetzii Pfitzeriana
Juniperus horizontalis spp.	Horizontal Juniper		∇							∇				∇				∇				∇	∇		∇	∇				∇	∇			∇		∇	∇		
Juniperus procumbens	Japgarden Juniper		∇							∇				∇				∇				∇	∇	∇	∇	∇				∇	∇			∇		∇	∇		Specify ‘Nana’ or ‘Greenmound’
Rhus aromatica “Gro low”	Aromatic Sumac	∇		∇					∇				∇		∇			∇		∇		∇	∇			∇	∇		∇	∇	∇			∇		∇			
Rosa var		∇								∇			∇			∇						∇	∇			∇			∇	∇	∇		∇						Use Varieties Coral, Noatraum, Noaschnee, Noala

Plant Material Selection Matrix

MSP Historic Area		Plant Type			Shape							Growth Rate			Flowering			Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses							
* Indicates poisonous	**Indicates thorne	Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular	Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier	
Botanical Name	**Common Name**	**Plant Characteristics**																			**Plant Culture**											**Landscape Use**							**Notes**
Spirea japonica	Japanese Spirea	∇				∇						∇				∇				∇		∇	∇			∇								∇		∇	∇		
Spirea x bumalda	Anthony Waterer Spirea	∇				∇						∇				∇				∇		∇	∇			∇								∇		∇	∇		Also ‘Goldflame’
Taxus x media 'Densiformis' *	Densiformis Yew		∇							∇				∇								∇				∇	∇	∇						∇		∇	∇		
Viburnum dilatatum	Linden Viburnum	∇							∇					∇	∇				∇	∇	∇	∇		∇			∇		∇			∇		∇	∇		∇		Specify ‘Asian Beauty’ or ‘Eric’
Viburnum plicatum var. toment.	Doublefile Viburnum	∇					∇						∇		∇				∇	∇		∇					∇		∇					∇			∇		Specify ‘Lanarth’, ‘Mariesii’, ‘Cascade’
Viburnum x dentatum	Arrowwood Viburnum	∇		∇						∇			∇		∇				∇	∇		∇		∇		∇	∇							∇		∇			Makes a good hedge
Viburnum x rhytid. ' Willowwood'	Willowwood Viburnum	∇								∇			∇		∇		∇		∇			∇				∇	∇							∇	∇		∇		

Plant Material Selection Matrix

GROUND COVERS																																									
Euonymus fortunei 'Coloratus' *	Purpleleaf Wintercreeper		∇							∇		∇						∇		∇		∇	∇	∇	∇	∇	∇	∇						∇		∇	∇		
Hedera helix x 'Baltic'*	Baltic Ivy		∇							∇		∇									∇	∇		∇	∇	∇	∇	∇						∇		∇	∇		Also 'Bulgaria'
Vinca minor	Common Periwinkle		∇							∇			∇		∇						∇	∇					∇	∇						∇			∇		

Plant Material Selection Matrix

Public Service Campus
Public Assembly Campus
Office Campus

* Indicates poisonous **Indicates thorned

Botanical Name	Common Name	Plant Type			Shape							Growth Rate			Flowering				Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses								Notes
		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular	Fast	Moderate	Slow	Spring	Summer	Fall		Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier	
		Plant Characteristics																				Plant Culture											Landscape Use							
TREES																																								
Acer saccharum	Sugar Maple	∇		∇			∇							∇						∇		∇		∇			∇	∇					∇	∇	∇	∇		∇		Specify 'Legacy'
Celtis laevigata	Sugar Hackberry	∇		∇			∇					∇								∇		∇		∇	∇	∇				∇	∇	∇		∇	∇	∇	∇	∇		Specify 'All Season' or 'Magnifica'
Celtis occidentalis	Sugar Hackberry	∇		∇			∇					∇								∇		∇	∇	∇			∇			∇	∇	∇		∇	∇	∇	∇			
Fraxinus americana	White Ash	∇		∇			∇					∇								∇		∇					∇							∇	∇		∇	∇		Specify 'Autumn Applause' or 'Autumn Purple'
Fraxinus pennsylvanica	Green Ash	∇		∇							∇	∇								∇		∇	∇	∇	∇		∇				∇	∇		∇	∇	∇	∇	∇		Specify 'Summit' or 'Marshall Seedless'
Platanus occidentalis	American Planetree	∇		∇			∇				∇	∇			∇							∇	∇	∇	∇	∇	∇	∇			∇	∇	∇	∇				∇		
Liquidambar s. 'Rotundiloba'	Fruitless Sweetgum	∇		∇			∇					∇								∇		∇		∇			∇						∇		∇	∇		∇		
Quercus palustris *	Pin Oak	∇		∇	∇							∇								∇		∇		∇			∇							∇	∇					Develops iron chlorosis in high pH soils
Quercus phellos *	Willow Oak	∇		∇			∇						∇							∇		∇	∇				∇	∇		∇			∇	∇	∇	∇	∇	∇		
Quercus rubra *	Northern Red Oak	∇		∇			∇					∇								∇			∇		∇		∇			∇			∇	∇	∇	∇	∇	∇		Develops iron chlorosis in high pH soils
Picea glauca	White Spruce		∇		∇								∇					∇				∇	∇				∇	∇			∇	∇	∇		∇	∇		∇		
Pinus strobus	White Pine		∇	∇	∇							∇										∇	∇		∇		∇	∇							∇	∇		∇		Develops iron chlorosis in high pH soils
Taxodium distichum	Bald Cypress	∇		∇	∇								∇									∇	∇	∇	∇		∇				∇	∇	∇		∇	∇		∇		

Plant Material Selection Matrix

Public Service Campus
Public Assembly Campus
Office Campus

* Indicates poisonous **Indicates thorned

Botanical Name	Common Name	Plant Type			Shape							Growth Rate			Flowering			Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses								Notes
		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular	Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier	
		Plant Characteristics																			Plant Culture											Landscape Use							
TREES																																								
Acer platanoides	Norway Maple	∇				∇							∇		∇					∇	∇	∇	∇	∇	∇	∇				∇				∇	∇		∇		Specify ‘Columnare' or 'Summershade'
Acer rubrum*	Red Maple	∇		∇			∇						∇		∇					∇	∇	∇		∇			∇					∇		∇	∇		∇		Specify ‘Red Sunset', 'October Glory', or 'Armstrong'
Gleditsia triacanthos 'inermis' *	Thornless Honeylocust	∇		∇						∇		∇								∇	∇	∇				∇				∇	∇		∇	∇		∇	∇		Specify ‘Moraine' or 'Shademaster'
Koelreuteria paniculata	Goldenrain Tree	∇					∇						∇			∇			∇	∇		∇	∇		∇	∇			∇	∇	∇	∇	∇	∇	∇	∇			
Picea abies	Norway Spruce		∇		∇								∇									∇				∇	∇			∇				∇	∇		∇		
Pyrus calleryana 'Bradford'	Bradford Pear	∇					∇					∇			∇					∇		∇	∇			∇			∇	∇	∇			∇	∇	∇	∇		Also 'Capital', 'Redspire', or ‘Aristocrat’, Susceptible to wind damage
Tilia americana	Basswood	∇		∇			∇						∇			∇						∇				∇	∇							∇	∇		∇		Specify ‘Rosehill', 'Douglas' or 'Redmond'
Tilia cordata	Littleleaf Linden	∇					∇						∇		∇							∇				∇					∇		∇	∇	∇	∇	∇		Specify ‘June Bride’ or ‘Greenspire’
Cercis canadensis	Redbud	∇		∇						∇			∇		∇					∇		∇		∇	∇	∇	∇					∇		∇	∇		∇		‘Forest Pansy’ purple leaf form
Cornus florida	Flowering Dogwood	∇		∇						∇				∇	∇				∇	∇		∇					∇					∇					∇		Specify ‘Cherokee Princess' or 'Rubra'
Cornus kousa	Kousa Dogwood	∇					∇							∇	∇				∇	∇		∇		∇			∇		∇	∇		∇		∇			∇		Specify var. ‘chinensis’ or ‘Milky Way’
Crataegus crus-galli inermis	Thornless Cockspur Hawth.	∇		∇			∇							∇	∇				∇	∇		∇	∇	∇	∇	∇					∇	∇		∇	∇		∇		Red berries
Crataegus phaenopyrum**	Washington Hawthorn	∇		∇			∇							∇	∇				∇	∇		∇	∇	∇	∇	∇					∇	∇		∇	∇		∇	∇	Red berries, Thorns
Crataegus viridis 'Winter King'**	Winter King Hawthorn	∇		∇			∇							∇	∇				∇	∇		∇	∇	∇	∇	∇					∇	∇		∇	∇		∇		Red berries, Thorns
Ilex opaca*	American Holly		∇	∇	∇						∇			∇	∇			∇	∇			∇		∇		∇	∇				∇	∇		∇			∇		Requires 1 male and 2 females for fruit. Not wind tolerant, Avoid high pH soils

Plant Material Selection Matrix

Public Service Campus
Public Assembly Campus
Office Campus

* Indicates poisonous **Indicates thorne

Botanical Name	Common Name	Plant Type			Shape								Growth Rate			Flowering			Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses							Notes
		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular		Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier	
		Plant Characteristics																				Plant Culture											Landscape Use							
TREES																																								
Magnolia x soulangiana	Saucer Magnolia	∇					∇						∇		∇							∇	∇		∇		∇					∇	∇					∇		Prefers soil pH between 5,0 to 6.5
																																								Other disease resistant crabapples include: 'Adirondack', 'Beverly', 'Molten Lava', 'Sentinel', 'David'
Malus x 'Prairiefire	Prairiefire Crabapple	∇								∇			∇		∇					∇			∇		∇		∇			∇					∇	∇		∇		
Malus x 'Donald Wyman'	Donald Wyman Crabapple	∇								∇			∇		∇					∇			∇		∇		∇			∇					∇	∇		∇		
Malus x 'Sugar Tyme'	Sugar Tyme Crabapple	∇				∇							∇		∇					∇			∇		∇		∇			∇					∇	∇		∇		
SHRUBS																																								
Euonymous alatus 'Compactus' *	Dwarf Burning Bush	∇								∇				∇							∇		∇	∇			∇	∇	∇	∇				∇	∇	∇	∇	∇	∇	Favorite for deer
Viburnum x dentatum	Arrowwood Viburnum	∇		∇						∇			∇		∇					∇	∇		∇		∇		∇	∇						∇		∇			Makes a good hedge
Viburnum dilatatum	Linden Viburnum	∇							∇					∇	∇					∇	∇	∇	∇		∇			∇		∇			∇	∇	∇		∇		Specify ‘Asian Beauty’ or ‘Eric’

Plant Material Selection Matrix

Public Service Campus
Public Assembly Campus
Office Campus

* Indicates poisonous **Indicates thorne

Botanical Name	Common Name	Plant Type			Shape								Growth Rate			Flowering			Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses								Notes
		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular		Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier	
		Plant Characteristics																				Plant Culture											Landscape Use							
Viburnum plicatum var. toment.	Doublefile Viburnum	∇					∇							∇		∇				∇	∇		∇					∇		∇					∇			∇			Specify 'Lanarth', 'Mariesii', 'Cascade'
Viburnum x rhytid. 'Willowwood'	Willowwood Viburnum	∇								∇				∇		∇		∇		∇			∇				∇	∇							∇	∇		∇			
Berberis mentorensis**	Mentor Barberry	∇					∇						∇			∇					∇		∇	∇			∇	∇		∇					∇	∇	∇	∇	∇	Good hedge plant
Berberis thunbergii atropurpurea**	Japanese Red Barberry	∇					∇							∇					∇	∇	∇		∇	∇			∇				∇	∇			∇	∇	∇	∇	∇	Specify 'Crimson Pygmy' or 'Rose Glow'
Buxus microphylla var. koreana*	Korean Boxwood		∇				∇								∇	∇							∇				∇	∇							∇			∇		Needs sheltered site
Cotoneaster divaricata	Spreading Cotoneaster	∇								∇				∇		∇				∇	∇		∇	∇	∇	∇	∇	∇		∇					∇			∇		
Ilex glabra 'Compacta'*	Compact Inkberry Holly		∇	∇			∇								∇	∇				∇		∇					∇	∇	∇						∇	∇	∇	∇		Avoid high pH soils
Pinus mugo var. mugo	Mugo Pine		∇							∇					∇								∇			∇	∇	∇							∇	∇		∇		Tolerates calcareous soils
Taxus x media 'Densiformis' *	Densiformis Yew		∇							∇					∇								∇				∇	∇	∇						∇		∇	∇		
Cotoneaster apiculatus	Cranberry Cotoneaster	∇								∇					∇	∇				∇	∇		∇	∇	∇	∇	∇	∇			∇	∇			∇			∇		

Plant Material Selection Matrix

Public Service Campus
Public Assembly Campus
Office Campus

* Indicates poisonous **Indicates thorne

Botanical Name	Common Name	Plant Type			Shape							Growth Rate			Flowering			Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses								Notes
		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular	Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier		
		Plant Characteristics																			Plant Culture											Landscape Use								
Juniperus horizontalis spp.	Horizontal Juniper		∇							∇				∇				∇				∇	∇		∇	∇				∇	∇			∇		∇	∇			
Juniperus procumbens	Japgarden Juniper		∇							∇				∇				∇				∇	∇	∇	∇	∇				∇	∇			∇		∇	∇			Specify 'Nana' or 'Greenmound'
Spirea x bumalda	Anthony Waterer Spirea	∇				∇						∇				∇				∇		∇	∇			∇								∇		∇	∇			Also 'Goldflame'
Spirea japonica	Japanese Spirea	∇				∇						∇				∇				∇		∇	∇			∇								∇		∇	∇			

Plant Material Selection Matrix

Public Service Campus **Public Assembly Campus** **Office Campus** * Indicates poisonous **Indicates thorned		Plant Type			Shape							Growth Rate			Flowering			Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses								
		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular	Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier	
Botanical Name	**Common Name**	**Plant Characteristics**																			**Plant Culture**											**Landscape Use**							**Notes**
GROUND COVERS																																							
Euonymus fortunei 'Coloratus' *	Purpleleaf Wintercreeper		∇							∇		∇						∇		∇		∇	∇	∇	∇	∇	∇	∇					∇		∇	∇	∇		
Hedera helix x 'Baltic'*	Baltic Ivy		∇							∇		∇									∇	∇		∇	∇	∇	∇	∇						∇		∇	∇	∇		Also 'Bulgaria'
Vinca minor	Common Periwinkle		∇							∇			∇		∇						∇	∇					∇	∇						∇			∇			
GRASSES																																							
Liriope spicata	Liriope	∇	∇							∇			∇				∇		∇		∇	∇	∇	∇	∇	∇	∇	∇	∇	∇			∇						
Hemerocaallis sp.	Daylily	∇								∇			∇			∇		∇			∇	∇	∇	∇	∇	∇	∇		∇	∇	∇			∇						Stella – de ore

Plant Material Selection Matrix

Natural Resources Area		Plant Type			Shape								Growth Rate			Flowering			Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses								
* Indicates poisonous**Indicates thorned		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular		Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier		
Botanical Name	**Common Name**	**Plant Characteristics**																				**Plant Culture**											**Landscape Use**								**Notes**
TREES																																									
Acer nigrum	Black Maple	∇		∇			∇						∇		∇							∇	∇					∇						∇						High wildlife value
Acer rubrum*	Red Maple	∇		∇			∇						∇		∇						∇	∇	∇		∇			∇					∇		∇	∇		∇		Very High Wildlife Value
Acer saccharum	Sugar Maple	∇		∇			∇								∇						∇		∇		∇			∇	∇				∇	∇	∇	∇		∇		High wildlife value
Amelanchier Canadensis	Serviceberry	∇		∇	∇		∇									∇					∇									∇	∇	∇	∇		∇	∇			∇	Higher Wildlife Value
Amelanchier laevis	Serviceberry	∇		∇			∇							∇		∇				∇	∇	∇	∇		∇		∇	∇					∇		∇	∇		∇		Also Amelanchier arborea
Betula nigra	Riverbirch	∇		∇			∇				∇	∇				∇						∇	∇				∇	∇		∇	∇	∇	∇		∇				∇	Very High Wildlife Value
Carpinus caroliniana	American Hornbeam	∇		∇							∇				∇						∇	∇	∇					∇	∇				∇		∇	∇	∇	∇		Smooth “beech-like” bark
Carya ovata	Shagbark Hickory	∇		∇			∇							∇		∇							∇		∇		∇	∇		∇	∇				∇				∇	Interesting Bark
Celtis laevigata	Sugar Hackberry	∇		∇			∇							∇							∇	∇			∇	∇	∇			∇	∇	∇		∇	∇	∇	∇	∇		
Celtis occidentalis	Hockberry	∇		∇			∇							∇							∇	∇	∇		∇		∇			∇	∇	∇		∇	∇	∇		∇		
Cercis canadensis	Redbud	∇		∇						∇				∇		∇					∇		∇		∇	∇	∇	∇					∇		∇	∇		∇		‘Forest Pansy’ purple leaf form
Cornus alternifolia	Pagoda Dogwood	∇		∇						∇				∇		∇				∇	∇	∇	∇	∇		∇	∇	∇	∇	∇	∇		∇		∇			∇		
Cornus florida	Florida Dogwood	∇		∇						∇				∇		∇				∇	∇	∇	∇	∇		∇	∇	∇	∇	∇	∇		∇		∇			∇		

Plant Material Selection Matrix

Natural Resources Area		Plant Type			Shape								Growth Rate			Flowering			Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses								
* Indicates poisonous**Indicates thorned		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular		Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier		
Botanical Name	**Common Name**	**Plant Characteristics**																				**Plant Culture**											**Landscape Use**								**Notes**
TREES																																									
Fraxinus americana	White Ash	∇		∇			∇							∇							∇	∇					∇							∇	∇		∇	∇			
Fraxinus pennsylvanica	Green Ash	∇		∇							∇		∇								∇	∇	∇	∇	∇		∇				∇	∇		∇	∇	∇	∇	∇		Specify ‘Summit’ or ‘Marshall Seedless’
Gleditsia triacanthos	Thornless Honeylocust	∇		∇						∇			∇								∇	∇	∇				∇				∇	∇		∇	∇		∇	∇			
Gymnocladus dioicus	Kentucky Coffeetree	∇		∇			∇							∇			∇				∇	∇	∇				∇	∇		∇	∇	∇	∇		∇			∇			
Juniperus virginiana	E. Red Cedar		∇	∇		∇			∇					∇					∇				∇	∇	∇	∇	∇	∇		∇	∇	∇			∇	∇			∇	
Koelreuteria paniculata	Goldenrain Tree	∇					∇							∇			∇			∇	∇		∇	∇		∇	∇			∇	∇	∇	∇	∇	∇	∇	∇			
Malus ioensis	Prairie Crab	∇		∇			∇							∇		∇			∇					∇	∇	∇	∇	∇		∇	∇	∇			∇				∇	
Quercus acutissima*	Sawtooth Oak	∇		∇			∇							∇		∇					∇		∇				∇	∇		∇					∇	∇		∇		Develops iron chlorosis in high pH soils
Quercus alba	White Oak	∇		∇			∇				∇			∇		∇					∇	∇	∇		∇		∇	∇		∇	∇	∇	∇		∇			∇	∇	
Quercus macrocarpa	Burr Oak	∇		∇			∇				∇			∇		∇				∇			∇		∇		∇	∇		∇	∇	∇	∇		∇		∇			
Quercus Muhlenbergii	Chinkapin Oak	∇		∇			∇							∇		∇							∇		∇		∇	∇		∇	∇	∇	∇		∇	∇		∇		
Quercus palustris *	Pin Oak	∇		∇	∇								∇								∇	∇			∇		∇								∇	∇				Develops iron chlorosis in high pH soils
Quercus phellos *	Willow Oak	∇		∇			∇							∇							∇	∇	∇				∇	∇		∇			∇	∇	∇	∇	∇	∇		

Plant Material Selection Matrix

Natural Resources Area		Plant Type			Shape							Growth Rate			Flowering			Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses							
* Indicates poisonous**Indicates thorned		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular	Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier	
Botanical Name	**Common Name**	**Plant Characteristics**																			**Plant Culture**											**Landscape Use**							**Notes**
TREES																																							
Quercus rubra *	Northern Red Oak	∇		∇			∇					∇								∇		∇		∇		∇			∇			∇	∇	∇	∇	∇	∇		Develops iron chlorosis in high pH soils
Platanus occidentalis	American Planetree	∇		∇			∇				∇	∇			∇						∇	∇	∇	∇	∇	∇	∇			∇	∇	∇	∇				∇		
Prunus Americana	Ameriacan Plum	∇		∇						∇			∇		∇							∇	∇			∇	∇		∇	∇	∇			∇				∇	

Plant Material Selection Matrix

Natural Resources Area		Plant Type			Shape								Growth Rate			Flowering				Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses							
* Indicates poisonous**Indicates thorned		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular		Fast	Moderate	Slow	Spring	Summer	Fall		Foliage	Fruit	Fall Color		Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier	
Botanical Name	**Common Name**	**Plant Characteristics**																					**Plant Culture**											**Landscape Use**							**Notes**
SHRUBS																																									
Ilex deciduas*	Possumhaw	∇		∇							∇			∇						∇				∇				∇	∇	∇						∇	∇				Needs male and female for fruiting effect
Juniperus procumbens	Japgarden Juniper		∇							∇					∇				∇					∇	∇	∇	∇	∇				∇	∇			∇		∇	∇		Specify ‘Nana’ or ‘Greenmound’
Rhus aromatica	Fragrant Sumac	∇		∇							∇				∇					∇	∇			∇		∇		∇	∇							∇					Specify ‘Green Globe’
Rhus arommatica ‘Gro-low’	Gro-low Sumac	∇		∇							∇				∇	∇				∇	∇			∇		∇		∇	∇							∇			∇		
Rhus typhina	Staghorn Sumac	∇		∇						∇			∇							∇	∇			∇	∇			∇				∇				∇	∇				Specify ‘Dissecta’ or ‘Laciniata’

Plant Material Selection Matrix

Streetscape

* Indicates poisonous **Indicates thorned

Botanical Name	Common Name	Plant Type			Shape							Growth Rate			Flowering			Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses							Notes
		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular	Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier	
		Plant Characteristics																			Plant Culture											Landscape Use							
MSP Parkway																																							
Zelkova serrata	Japanese Zelkova	∇					∇						∇		∇					∇	∇	∇		∇	∇	∇						∇	∇			∇	∇		Specify 'Village Green'
Acer rubrum*	Red Maple	∇		∇			∇						∇		∇					∇	∇	∇		∇			∇					∇		∇	∇		∇		Specify 'Red Sunset', 'October Glory', or 'Armstrong'
Lafayette Street & Chestnut Street																																							
Ginkgo biloba*	Ginkgo (male)	∇									∇			∇				∇		∇	∇	∇		∇	∇	∇			∇	∇	∇	∇		∇	∇		∇		Certified Male Only
Acer rubrum*	Red Maple	∇		∇			∇						∇		∇					∇	∇	∇		∇			∇					∇		∇	∇		∇		Specify 'Red Sunset', 'October Glory', or 'Armstrong'
Secondary & Tertiary Roadways																																							
Tilia cordata	Littleleaf Linden	∇					∇						∇		∇							∇				∇					∇		∇	∇	∇	∇	∇		Specify 'June Bride' or 'Greenspire'
Acer rubrum*	Red Maple	∇		∇			∇						∇		∇					∇	∇	∇		∇			∇					∇		∇	∇		∇		Specify 'Red Sunset', 'October Glory', or 'Armstrong'

Plant Material Selection Matrix

Streetscape

* Indicates poisonous **Indicates thorned

Botanical Name	Common Name	Plant Type			Shape							Growth Rate			Flowering			Special Interest			Soil Conditions					Exposure			Tolerance			Functional Uses								Notes
		Deciduous	Evergreen	Native	Conical	Columnar	Round/Oval	Weeping	Upright	Spreading	Irregular	Fast	Moderate	Slow	Spring	Summer	Fall	Foliage	Fruit	Fall Color	Moist	Average	Dry	Acidic	Alkaline	Sun	Part Shade	Full Shade	Pest Resistant	Drought Resistant	Pollution Tolerant	Specimen	Street Tree	Massing	Screen/Windbreak	Parking Lot	Park/Lawn	Barrier	
		Plant Characteristics																			Plant Culture											Landscape Use							
Median Shrubs																																							
Berberis thunbergii atropurpurea**	Japanese Red Barberry	∇					∇						∇					∇	∇	∇		∇	∇			∇				∇	∇			∇	∇	∇	∇	∇	Specify 'Crimson Pygmy' or 'Rose Glow'
Cotoneaster divaricata	Spreading Cotoneaster	∇								∇			∇		∇				∇	∇		∇	∇	∇	∇	∇	∇		∇					∇			∇		
Ilex glabra 'Compacta'*	Compact Inkberry Holly		∇	∇			∇							∇	∇				∇		∇					∇	∇	∇						∇	∇	∇	∇		Avoid high pH soils
Taxus x media 'Densiformis' *	Densiformis Yew		∇							∇				∇								∇				∇	∇	∇						∇		∇	∇		
Juniperus horizontalis spp.	Horizontal Juniper		∇							∇				∇				∇				∇	∇		∇	∇				∇	∇			∇		∇	∇		
Spirea x bumalda	Anthony Waterer Spirea	∇				∇						∇				∇				∇		∇	∇			∇								∇		∇	∇		Also 'Goldflame'
Euonymus fortunei 'Coloratus' *	Purpleleaf Wintercreeper		∇							∇		∇						∇		∇		∇	∇	∇	∇	∇	∇	∇						∇		∇	∇		
Liriope spicata	Liriope	∇	∇							∇			∇				∇	∇	∇		∇	∇	∇	∇	∇	∇	∇	∇	∇	∇			∇						
Hemerocallis sp.	Daylilies	∇								∇			∇			∇		∇			∇	∇	∇	∇	∇	∇	∇		∇	∇	∇			∇					Var. Stella-de oro
Rhus aromatica 'grow low'	Fragrant Sumac	∇		∇						∇				∇	∇					∇	∇	∇	∇	∇	∇	∇	∇	∇	∇	∇			∇						