APPENDIX A: SUPPLEMENTAL LANDSCAPING REQUIREMENTS

Section 1: Landscaping Plan Requirements

Landscaping plans required in accordance with Section 5.3.D, Landscaping Plan, shall include the following minimum information, together with any additional information the Planning Director may require in order to determine compliance with the standards in Section 5.3, Landscaping and Buffer Standards:

- Show all buildings, walkways, vehicular use areas, utility areas, stormwater retention/detention areas, sight triangles, and miscellaneous site structures (Minimum scale of 1" = 40').
- Show current zoning and land use of all adjacent property.
- Show location, name, and size of all existing Specimen Trees, as defined in Section 5.3.J(3).
- Planting areas drawn to scale with a list of the botanical and common names, and size of all plants designated for each area.
- Location, name, and size of all existing trees, shrubs, groundcover, and other plant materials that are to be incorporated as a part of the landscape plan.
- Location and width of landscaped buffer strips, including height of berms.
- All landscape plans shall include a summary tabulation of all landscape requirements.
- Show all existing and proposed paved surfaces, curbs, steps, and grade changes.
- Location and sizes of any irrigation facilities used to maintain planting areas.
- Location of any overhead powerlines or easements on the property.

Section 2: Acceptable Plant Species

The following list of trees and shrubs represent the acceptable plant species that may be used to comply with this Ordinance. Other species may be allowed with staff approval.

Table A-2: Acceptable Plant Species

*-NOT ALLOWED FOR REQUIRED PLANTING | **-NOT RECOMMENDED FOR REQUIRED PLANTING | †-UNDER 15' TALL ONLY.

		SHADE TOLERANT	TOLERATES POOR DRAINAGE	NATIVE	BLOOMING	FOLIAGE (DECIDUOUS, SEMI- DECIDUOUS, OR EVERGREEN)	PLACEHOLDER
COMMON NAME	SCIENTIFIC NAME						
TREES – LARGE MATURING (5	o' + H)						
Arborvitae, 'Green Giant'	Thuja 'Green Giant'		X			Е	
Ash, Green	Fraxinus pennsylvanica	X		X		D	

Table A-2: Acceptable Plant Species

		SHADE TOLERANT	TOLERATES POOR DRAINAGE	NATIVE	BLOOMING	FOLIAGE (DECIDUOUS, SEMI- DECIDUOUS, OR EVERGREEN)	PLACEHOLDER
Соммон Наме	SCIENTIFIC NAME						
Ash, White	Fraxinus americana			X		D	
Baldcypress	Taxodium distichum		х	x		D	
Beech, American	Fagus grandiflora			х		D	
Birch, River	Betula nigra	x	x	x		D	
Black Gum	Nyssa sylvatica			x		D	
Cedar, Deodar	Cedrus deodara					Е	
Cedar, Eastern Red	Juniperus virginiana			x		E	
Cryptomeria, Japanese	Cryptomeria japonica		X			Е	
Dawn Redwood	Metasequoia glyptostroboides					S	
Elm, Princeton	Ulmus americana 'Princeton'					D	
Elm, Lacebark	Ulmus parvifolia	Х	X			D	
Gingko	Gingko biloba	Х	x			D	
Hackberry, Common	Celtis occidentalis	Х	х	x		D	
Hackberry, Sugar	Celtis laevigata	Х	х	x		D	
Hemlock, Eastern	Tsuga canadensis	Х		х		E	
Hickory, Bitternut	Carya cordiformis			x		D	
Hickory, Pignut	Carya glabra			x		E	
Hickory, Shagbark	Carya ovata			х		Е	
Holly, American	llex opaca	x		x		E	
Honeylocust, Shademaster**	Gleditsia tricanthos inermis 'Shademaster'			X		D	
Hornbeam, European	Carpinus betulus	X	x			D	
Kentucky Coffeetree	Gymnocladus dioicus	X		x		D	
Linden, Little Leaf	Tilia cordata	Х	х		×	D	
Magnolia, Cucumber	Magnolia acuminata			x	x	D	
Magnolia, Southern	Magnolia grandiflora		X	x	x	Е	
Maple, Freeman	Acer x fremanii	Х		х		D	
Maple, Red *	Acer rubrum	X	Х	x		D	
Maple, Sugar	Acer saccharum	X		x		D	
Oak, Black	Quercus velutina	X		x		D	

Table A-2: Acceptable Plant Species

		SHADETOLERANT	TOLERATES POOR DRAINAGE	NATIVE	BLOOMING	FOLIAGE (DECIDUOUS, SEMI- DECIDUOUS, OR EVERGREEN)	РLАСЕНОLDER
COMMON NAME	SCIENTIFIC NAME						
Oak, Fastigiante English	Quercus robur 'Fastigiata'					D	
Oak, Laurel	Quercus laurifolia	x		X		D	
Oak, Live	Quercus virginiana	Х	x	x		E	
Oak, Northern Red*	Quercus rubra	х		x		D	
Oak, Nuttall	Quercus nuttalii	X		X		D	
Oak, Overcup	Quercus lyrata	X	X	X		D	
Oak, Scarlet**	Quercus coccinea			X		D	
Oak, Shumard	Quercus shumardii	X		x		D	
Oak, Southern Red	Quercus falcata	X		x		D	
Oak, Swamp White	Quercus bicolor	x	x	x		D	
Oak, Water	Quercus nigra		x	X		D	
Oak, White	Quercus alba	X		x		D	
Oak, Willow	Quercus phellos	X	X	x		D	
Pecan	Carya illinoensis			x		D	
Persimmon	Diospyros virginiana	X		x		D	
Pine, Austrian	Pinus nigra		x			Е	
Pine, Japanese Black	Pinus thunbergi					Е	
Pine, Loblolly	Pinus taeda		x	x		Е	
Pine, Shortleaf	Pinus echinata			X		Е	
Pine, Virginia	Pinus virginiana			X		Е	
Poplar, Tulip	Liriodendron tulipfera	x	x	X	X	D	
Sweetgum, Fruitless	Liquidambar stickful 'Rotundiloba'	X	X	x		D	
Sweetgum, Slender	Liquidambar styraciflua 'Slender Silhouette'	X	x	X		D	
Zelkova, Japanese *	Zelkova serrata	x				D	
	Trees – Medium Maturing (30′ – 50′H)						
Arborvitae, American	Thuja occidentalis		x	x		Е	
Carolina Silverbell	Halesia carolina	x		x	x	D	
Chinese Pistache	Pistacia chinensis	x	x			D	
Crape Myrtle (Biloxi, Natchez)*	Lagerstroemia					D	

Table A-2: Acceptable Plant Species

		SHADE TOLERANT	Tolerates Poor Drainage	NATIVE	BLOOMING	FOLIAGE (DECIDUOUS, SEMI- DECIDUOUS, OR EVERGREEN)	PLACEHOLDER
Common Name	SCIENTIFIC NAME						
Dogwood, Flowering	Cornus florida	х		x	х	D	
Dogwood, Kousa	Cornus kousa	X		x	x	D	
Fringetree, Chinese	Chionanthus retusus	X			X	D	
Golden Raintree	Koelreuteria paniculata				x	D	
Hawthorne, Green	Crataegus viridis 'Winter King'		x	×	x	D	
Holly, 'Emily Brunner'	llex X 'Emily Brunner'	X				Е	
Holly, 'Nellie R. Stevens'	llex X 'Nellie R. Stevens'	X				Е	
Holly, Savannah	Ilex X attenuata 'Savannah'		X	x		Е	
Hornbeam, American	Carpinus caroliniana	X	×	X		D	
Maple, Hedge	Acer campestre		x			D	
Maple, Paperbark	Acer griseum					D	
Maple, Trident	Acer buergeranum	X				D	
Redbud, Chinese	Cercis chinensis	X			х	D	
Sourwood	Oxydendrum arboreum	х		x	х	D	
	Trees – Sr	mall Maturin	g (Up to 25'l	⊣)			
Arborvitae, Emerald Green	Thuja occidentalis 'Emerald Green'					Е	
Buckeye, Bottlebrush	Aesculus parviflora	X		x	x	D	
Camellia, Sasanuqa	Camellia sasanqua	х			Х	Е	
Cherry, Kwanzan	Prunus serrulata 'Kwanzan'				X	D	
Cherry, Snowgoose	Prunus serrulata 'Snowgoose'				x	D	
Cherry, 'Okame'	Prunus X 'Okame'				х	D	
Cherry, Weeping	Prunus subhirtella pendula				x	D	
Cherry, Yoshino	Prunus X yedoensis				х	D	
Cherrylaurel, Carolina	Prunus caroliniana	x	x	x	х	Е	
Crabapple, Japanese Flowering	Malus floribunda				x	D	
Crape Myrtle	Lagerstroemia					D	

Table A-2: Acceptable Plant Species

		SHADE TOLERANT	Tolerates Poor Drainage	NATIVE	Вгооміна	FOLIAGE (DECIDUOUS, SEMI- DECIDUOUS, OR EVERGREEN)	PLACEHOLDER
COMMON NAME	SCIENTIFIC NAME						
Dogwood, redtwig Dogwood, Rutger's	Cornus sericea f. baileyi Cornus kousa X florida	X	X	X	X	D D	
Hybrid							
Filbert, American	Corylus americana	X		X		D	
Fringetree	Chionanthus virginiana		Х	X	Х	D	
Hawthorne, Washington	Crataegus phaenopyrum		X	X	Х	D	
Holly, Foster	Ilex X attenuata 'Fosteri'		x	X		Е	
Holly, Yaupon	Ilex vomitoria	X		X		Е	
Magnolia, Star	Magnolia stellata		х	×	х	D	
Magnilia, Lily Flowered	Magnolia liliiflora	X			х	D	
Magnolia, 'Little Gem'	Magnolia grandiflora 'Little Gem'		x	Х	x	Е	
Magnolia, 'Merrill'	Magnolia X loebneri 'Merrill'		x	Х	x	D	
Magnolia, Saucer	Magnolia X soulangiana		х	x	x	D	
Maple, Armur 'Flame'	Acer tataricum ginnala 'Flame'		x			D	
Maple, Japanese	Acer palmatum	X				D	
Maple, Purplebow/Shantung	Acer truncatum					D	
Plum, Purpleleaf	Prunus cerasifera 'Atropurpurea'				×	D	
Redbud, Eastern	Cercis canadensis	×	X	X	X	D	
Serviceberry	Amelanchier arborea			x	x	D	
Waxmyrtle	Myrica cerifera	x		x	x	D	
SHRUBS (* DENOTES EVERGR	REEN)						
Burford holly *	Ilex cornuta burfordi						
Camellia *	Camellia japonica						
Convex Japanese holly *	llex crenata `convexa'						
Dwarf burford holly *	Ilex cornuta burfordi nana						
Emily brunner holly *	Ilex "Emily Brunner"						
English holly *	Ilex aquifolium						
		b					

Table A-2: Acceptable Plant Species

		SHADETOLERANT	TOLERATES POOR DRAINAGE	NATIVE	BLOOMING	FOLIAGE (DECIDUOUS, SEMI- DECIDUOUS, OR EVERGREEN)	PLACEHOLDER
COMMON NAME	SCIENTIFIC NAME						
Evergreen euonymus *	Euonymus japonicus						
Flowering quince	Chaenomeles speciosa						
Forsythia	Forsythia intermedia						
Glenn dale azalea *	Azalea hybrida						
Glossy abelia *	Abelia grandiflora						
Hetzi Japanese holly *	llex crenata `hetzi'						
Hetzi jumper *	Jumperus chinesis hetzi						
Indian azalea *	Azalea indica						
Inkberry holly *	llex glabra						
Japanese aucuba *	Aucuba japonica						
Kaempferi azalea *	Azalea obtusum Kaempferi						
Laurel *	Laurus nobilis						
Loropetalum *	Loropetalum chinense						
Lusterleaf holly *	Ilex latifolia						
Oakleaf hydrangea	Hydrangea quercifolia						
Perny holly *	Ilex pernyi						
Pfitzer juniper *	Juniperus chinensis pfitzeriana						
Roundleaf Japanese holly *	Ilex crenata `rotundifolia'						
Sasanqua Camellia *	Camellia sasanqua						
Witch-hazel	Hammamelis virginiana						
Yaupon holly *	Ilex vomitoria						
Wax myrtle *	Myrica cerifera						
Wild olive *	Osmanthus americana						
Chinese photinia *	Photinia serrulata						
Mountain andromeda *	Pieris floribunda						
Japanese andromeda *	Pieris japonica						
Pittosporum *	Pittosporum tobira						
English laurel *	Prunus laurocerasus						

Table A-2: Acceptable Plant Species

*-Not allowed for required planting | **- Not recommended for required planting | †- Under 15' tall only.

		SHADE TOLERANT	TOLERATES POOR DRAINAGE	NATIVE	BLOOMING	FOLIAGE (DECIDUOUS, SEMI- DECIDUOUS, OR EVERGREEN)	PLACEHOLDER
COMMON NAME	SCIENTIFIC NAME						
Podocarpus *	Podocarpus macrophyllus maki						
Narrow leafed English laurel *	Prunus laurocerasus angustifolia						
Scarlet firethorn	Pyracantha coccinea						
Yeddo-hawthorn *	Raphiolepis umbellata						
Reeves spirea	Spirea cantoniensis						
Thunberg spirea	Spirea thunbergii						
Bridalwreath spirea	Spirea prunifolia plena						
Vanhoutte spirea	Spirea vanhouttei						
Japanese yew *	Taxus cuspidata						
Leatherleaf viburnum *	Viburnum rhytidophyllum						
Laurestinus viburnum *	Viburnum tinus						

Section 3: Invasive Plant Pest Species

Table A-3: Invasive Plant Species

Common Name	Scientific Name
Tr	REES
Bradford Pear	Pyrus Calleryana `Bradford'
Mimosa	Albizia Julibrissin
Princess Tree	Paulownia Tomentosa
Tree-of-Heaven	Ailanthus Altissima
Shi	RUBS
Autumn Olive	Elaeagnus Umbellata
Multiflora Rose	Rosa Multiflora
Nandina, Heavenly Bamboo, Sacred Bamboo	Nandina Domestica
Privet, Chinese	Ligustrum Sinense
Rose-of-Sharon, Shrub Althea	Hibiscus Syriacus

Table A-3: Invasive Plant Species

Common Name	SCIENTIFIC NAME
Grass	AND FORBS
Bamboo	Bambusa spp., Phyllostachys spp., Pseudosasa spp.
Chinese Lespedeza	Lespedeza Cuneata, Sericea Lespedeza
Common Reed	Phragmites Australis
Gill-Over-Ground, Ground Ivy	Glechoma Hederacea
Japanese Knotweed	Polygonum Cuspidatum
Japanese Stiltgrass, Nepalese Browntop	Microstegium Vimineum
Johnsongrass	Sorghum Halepense
Wild Garlic, Crow Garlic	Allium Vineale
·	Vines
Air Potato, Chinese Yam, Cinnamon Vine	Dioscorea Oppositifolia
English Ivy	Hedera Helix
Japanese Honeysuckle	Lonicera Japonica
Kudzu	Pueraria Montana
Morning-flory, Common	Ipomoea Purpurea
Periwinkle	Vinca Minor / Vinca Major
Porcelainberry	Ampelopsis Breuipedunculata
Wisteria, Chinese and Japanese	Wisteria Sinensis / Wisteria Floribunda

Section 4: Preferred Native Plant Species

Table A-4 below, identifies preferred native plant species for use in landscaping.

Table A-4: Preferred Native Plan Species

PLANT NAME	PLANT DESCRIPTION/INFORMATION
CANOPY TREES	
Tulip poplar (Liriodendron tulipifera)	Produces numerous seeds that are foraged upon by birds in the winter. It produces large yellow-orange and greenish flowers in the late spring that may be visited by hummingbirds. Unless you look up, though, you'll never notice them. This species tends to drop a lot of smallish twigs but grows quickly, is long-lived, and has few health issues.
Oaks (Quercus spp.)	Produce acorns which are an important food source for squirrels, chipmunks, deer, and wild turkeys. More than 500 species of butterflies and moths are known to use oaks as their larval food source. We have many species of oaks native to our area. Here are a few favorites:
	Bur oak (Quercus macrocarpa) produces large acorns with massive, fringed caps. It is a slow grower.
	Water oak (Quercus nigra) grows quickly and holds onto its tardily deciduous green leaves well into the winter.

Table A-4: Preferred Native Plan Species

PLANT NAME	PLANT DESCRIPTION/INFORMATION
	Northern red oak (Quercus rubra) and Schumard's oak (Quercus schumardii) are both fast growers that produce nice, red color in the fall.
Wild black cherry (Prunus serotina)	Leaves are food for almost 300 species of butterfly and moth larvae, their nectary flowers are magnets for many flying insects, and their fruits are a delicious treat for birds. This tree grows quickly and is very drought-tolerant.
Understory Trees	
Dogwood (Cornus florida)	Produces clusters of greenish-white flowers in the spring. By late summer, the trees are covered with bright red berries that are an important food source for birds and squirrels. The leaf color change is quite early in the fall, producing shades of red and purple. The tree is slow-growing, maxing out around 20-25'. The tree shape is somewhat rounded or even parasol-shaped. The roots tend to be shallow, so avoid spraying herbicides on the ground underneath.
Redbud (Cercis canadensis)	Flowers line the branches with pinkish-purple in the spring, providing a nectar source for bees and butterflies. The seeds are eaten by some birds, mice, and squirrels. This tree grows at a moderate rate to about 20' tall and its branches may spread just as wide.
Sourwood (Oxydendrum arboreum)	Produces catkins of small, white, bell-shaped flowers in the summer but really shows its stuff in the fall when its leaves begin to turn pinkish before turning a beautiful crimson color. This species may get 20-30' tall, and maintains a relatively slender silhouette.
SHRUBS (BEST FOR DRY SHADY	Areas)
Oak-leaf hydrangea (Hydrangea quercifolia)	Can get to be about 8' \times 8', but there is a smaller cultiver called 'PeeWee' which stays around 4-5'. The large leaves are joined in the summer by big poofy clusters of white, aromatic flowers that provide food for tiny pollinators. The leaves turn a beautiful red in the fall and remain on the plant throughout the fall.
Sweetshrub (Calycanthus floridus)	Will max out between 6-10' tall. The maroon flowers in the late spring develop into interesting dangling seed capsules. It is a very hardy plant.
Wax myrtle (Myrica cerifera or Morella cerifera)	An evergreen shrub with light green leaves frequently used for screening. It typically gets to be 10-12' tall. Birds love the shelter and tiny berries it provides.
SHRUBS (BEST FOR MOIST SHAD	DY AREAS)
Bottlebrush buckeye (Aesculus parviflora)	A loosely branching shrub that can get to be about 8' \times 10', but it is a slow grower. It produces spikes of white, nectar-licious flowers in the summer.
SHRUBS (BEST FOR DRY SUNNY	Areas)
Golden St. John's wort (Hypericum frondosum)	Loved for its abundant yellow flowers all summer. The leaves are turn darker and sometimes purplish in the fall-winter, but typically only fall off if the winter is severe. It will get to be 4-6' tall and wide.
Wax myrtle (Myrica cerifera or Morella cerifera)	An evergreen shrub with light green leaves frequently used for screening. It typically gets to be 10-12' tall. Birds love the shelter and tiny berries it provides.
SHRUBS (BEST FOR MOIST SUNI	NY AREAS)
Fothergilla 'Mt. Airy'	A dwarf hybrid of two species, this plant produces poofs of white flowers in the spring and then is magnificent again in the fall when its leaves turn gorgeous shades of red and orange. It will get to be about 3-5' tall and wide. While it does well in moist areas, it can do just fine in average soils and seems to be fairly drought-tolerant, as well.

Table A-4: Preferred Native Plan Species

PLANT NAME	PLANT DESCRIPTION/INFORMATION
Summersweet (Clethra alnifolia)	Produces white flowers in mid-summer that attract tons of pollinators! It has attractive, dark green foliage and will get to be about 6' tall and wide, although dwarf varieties are available.
Winterberry (Ilex verticillata)	A deciduous holly. It will lose its leaves after they turn yellow in the fall, but the females (if they've been pollinated by a male) will retain tons of bright red berries well into the winter. There are varieties that will mature to different sizes.
Elderberry (Sambucus canadensis)	Produces white flowers in the summer that will turn into purple berries relished by birds. It will form a loose thicket, if allowed, around 10' tall. It is a favorite of many birds, for both the habitat and the food.
SHRUBS (HARDY, NOT PICKY AB	OUT HABITAT REQUIREMENTS)
Beautyberry (Callicarpa americana)	A loose rounded shrub of about 5' in size. It has small pinkish berries for pollinators in summer, followed by bright magenta berries for the birds in the fall. In the driest part of the summer, it would appreciate a bit of a drink.
Indigo bush (Amorpha fruticosa)	A loosely branching shrub that produces spikes of purple flowers tinged with bright orange pollen which the bees love. It may get to be about 8-10' tall, and will form a loose colony if allowed.
Inkberry holly (Ilex glabra)	A compact evergreen shrub with small, dark green leaves. As with all hollies, each individual plant is either male or female. Females will produce black berries, but only if there is a male around to pollinate them. It will get to be about 5' tall. In a dry summer, it would appreciate a bit of a drink.
PERENNIALS (BEST FOR MOIST S	HADY A REAS)
Foamflower (Tiarella cordifolia)	Gets to be about 6-8" tall and sends up stalks of white flowers another foot or so in the spring.
Bleeding hearts (Dicentra eximia)	Has delicate, dark, evergreen leaves and produces cute little heart-shaped, pink flowers in the spring. May not be liked by raccoons.
Virginia bluebells (Mertensia virginica)	Come up in the spring with large, lettuce-like leaves and produce beautiful curved stalks of bell-shaped flowers that range from pink to blue to purple. A wonderful spring wildflower for moist areas.
PERENNIALS (BEST FOR DRY SHA	DY AREAS)
Christmas fern (Polystichum acrostichoides)	Evergreen and thrives on neglect in dry, shady places.
White wood aster (Eurybia divaricata)	Gets to be about a foot tall and produces white flowers from mid-summer to early fall. It tends to spread a bit.
Common blue violet (Viola sororia)	Sprouts up all over in the dry shady areas of my yard. It is most welcome. Deer and rabbits love it, and it may distract them from some other plants, like phlox. The leaves and flowers are also edible to people; you could add them to your salads!
Green-and-gold (Chrysogonum virginianum)	Has dark, evergreen leaves and makes a nice groundcover. It produces large, bright yellow flowers in the spring and is very drought-tolerant.
Little brown jugs (Hexastylis arifolia)	The name refers to the small jug-shaped flowers of this low-growing evergreen plant. You will only see them if you look under the leaves, but they provide nectar and pollen to beetles and other leaf-litter-inhabiting creatures.
PERRENIALS (BEST FOR DRY SUN	INY AREAS)
Aromatic aster	Puts on a fantastic show with its purple daisy-like flowers in the fall. It will form a mound 1-2' high and 2-3' in diameter, attracting many butterflies.

Table A-4: Preferred Native Plan Species

PLANT NAME	PLANT DESCRIPTION/INFORMATION		
(Symphyotrichum oblongifolium)			
Butterfly weed (Asclepias tuberosa)	Produces orange flowers in the spring and summer that attract numerous pollinators. It is usually 2-3' tall, dying back to the ground in the winter.		
Lance-leaved tickseed (Coreopsis lanceolata) and Thread-leaved coreopsis (Coreopsis verticillata)	Both are available as various cultivars and varieties. They may bloom from late spring through the summer and into the fall, providing pollen and nectar for pollinators. The seeds are then eaten by birds.		
Coneflowers (Echinacea and Rudbeckia spp.)	Are now available as numerous cultivars and varieties, offering many different colors and sizes. Pollinators tend to prefer the more "traditional" flower colors. The seeds will be eaten by many birds.		
Creeping phlox (Phlox subulata)	A low-growing, slowly spreading, evergreen plant, There are many different cultivars available producing early spring flowers in white or various shades of pink and purple. Some may bloom again in the fall.		
Goldenrods (Solidago spp.)	Produce long plumes of numerous, tiny yellow blossoms in late summer and fall, offering late-season nectar and pollen, and then the seeds are eaten by small birds all winter. These plants may get to be as tall as 8', but there are some dwarf varieties available too.		
PERENNIALS (BEST FOR MOIST SUNNY AREAS)			
Cardinal flower (Lobelia cardinalis)	An attractor of hummingbirds and butterflies. It reaches 2-3' tall and produces stalks of bright red flowers from summer into the fall.		
Mistflower (Conoclinium coelestinum)	Gets to be 2-3' tall and produces wonderful clouds of small, lavendar flowers in the fall.		
Swamp sunflower (Helianthus angustifolius)	Waits until the very end of the season to produce its bright yellow flowers. By this time, it could be as tall as 8'. It does tend to spread, but you can easily pull it out if it spreads outside its allowed area.		
Red mallow (Hibiscus coccineus)	Produces bright red flowers as large as your hand in the summer atop stems that might get to be 5' tall.		
PERENNIALS (NOT PICKY ABOUT LOCATION)			
Blue-eyed grass (Sisyrinchium angustifolium)	Is actually a small iris. The thin, stiff leaves might get to be 6-8" tall. Small, light blue flowers with yellow centers are produced in the spring.		
Columbine (Aquilegia canadensis)	Does well in sun or shade. Its bluish leaves have a delicate appearance and are frequently "decorated" by leaf miners. This plant produces dangling red and yellow flowers loved by hummingbirds, and many people! There are many funky and foreign cultivars of columbine that are not appealing to pollinators, so try to stick with the straight, native species.		
Indian pink (Spigella marylandica)	Gets about 2' tall in the spring and produces columnar red flowers with yellow insides that are attractive to hummingbirds.		
Joe-Pye weed (Eupatoriadelphus macalatus)	Its relatives may range from 2-6' tall before producing large clusters of lavendar flowers in late summer.		
Native Grasses and Sedges (7	Native Grasses and Sedges (Tall – 3' or Taller)		
Switchgrass (Panicum virgatum) and Indian grass	put on quite a show in late summer and fall with their very different types of flowering stalks. Let them stand all winter as natural bird feeders.		

Table A-4: Preferred Native Plan Species

PLANT NAME	PLANT DESCRIPTION/INFORMATION		
(Sorghastrum nutans)			
Native Grasses and Sedges (Medium Height – 2' to 4' Tall)			
Wild oats (Chasmanthium latifolium or Uniola latifolia)	Grow well in the shade and have attractive, dangling flower/seedheads that persist into winter.		
Splitbeard bluestem (Andropogon ternarius) and Little bluestem (Schizachyrium scoparius)	Like dry, sunny places. They both have leaves that are light bluish-green, and turn gentle shades of lavendar, blue, and pink in the fall. The flowers and seedheads of splitbeard bluestem are fuzzy, adding extra interest to the winter garden.		
Muhly grass (Muhlengerbia capillaris)	Needs lots of sun and will be happier if it is not in bone-dry clay soil. When in the right spot, it produces amazing clouds of purplish flowering stalks in late summer/fall.		
Native Grasses and Sedges (Short Height – Less than 1' Tall)			
Purple lovegrass (Eragrostis spectablis)	Produces fine, lacey displays of tiny flowers and seeds in late summer/fall. It does well in dry, sunny areas.		
Carex laxiculmis	Has somewhat floppy, bluish leaves that remain all winter. It likes part-shade to shady areas.		
Carex plantaginea	Has somewhat stiffer, medium green leaves that remain all winter. It likes part-shade to shady areas.		
FLOWERING VINES (CAN BE USED TO SCREEN WALLS OR OTHER STRUCTURES)			
Carolina jessamine (Gelsemium sempervirens)	Is evergreen and produces large, tubular, yellow flowers from late winter into spring, serving as an important food source for pollinators emerging from winter hibernation. It may bloom again in the fall.		
Crossvine (Bignonia capreolata)	Produces large, tubular, red flowers from late winter into spring, serving as an important food source for hummingbirds as they migrate north for the summer. It will produce more flowers if it gets more sun, but does fine in the shade, as well. This plant is evergreen, though its leaves typically take on a reddish hue during the winter.		
Trumpet honeysuckle (Lonicera sempervirens)	Produces flowers unlike those of non- native, invasive honeysuckles. These are slender, red tubes that are popular among many pollinators, including hummingbirds. It is mostly evergreen, maybe losing some of its leaves in very cold weather. It produces flowers continuously from spring through fall.		

Section 5: Commonly-Use Invasive Plants and Native Substitutes

Table A-5 below, identifies invasive plants commonly used that are damaging to the environment and native plants that are excellent alternatives to give back to the environment.

Table A-5: Native Plan Alternatives to Commonly-Use Invasive Plant Species

COMMONLY-USED INVASIVE SPECIES	RECOMMENDED ALTERNATIVE NATIVE PLANT SPECIES			
GRASSES AND GRASS-LIKE PLANTS				
Bamboo (Bambusa species)	Blue-eyed grass (Sisyrinchium angustifolium)			

Table A-5: Native Plan Alternatives to Commonly-Use Invasive Plant Species

Table A-5: Native Plan Alternatives to Commonly-Use	•			
COMMONLY-USED INVASIVE SPECIES	RECOMMENDED ALTERNATIVE NATIVE PLANT SPECIES			
Chinese silvergrass (Miscanthus sinensis)	Indian grass (Sorghastrum nutans)			
Common reedgrass (Phragmites australis)	Oak sedge (Carex pennsylvanicus)			
Maidengrass (Miscanthus sinensis)	Purple top (Tridens flavus)			
Monkey grass (Liriope species)	Splitbeard bluestem (Andropogon ternarius)			
Running bamboo (Phyllostachys species)	Spreading sedge (Carex laxiculmis)			
Zebra grass (Miscanthus sinensis)	Switchgrass (Panicum species)			
TREES				
Bradford pear (Pyrus calleryana)	Any oak (Quercus species)			
Empress tree (Paulownia tomentosa)	Black cherry (Prunus serotina)			
Mimosa (Albizia julibrissin)	Dogwood (Cornus florida)			
Tree of heaven (Ailanthus altissima)	Redbud (Cercis canadensis)			
SHR	UBS			
Autumn olive (Eleagnus species)	Beautyberry (Callicarpa americana)			
Butterfly bush (Buddleja davidii)	Dwarf palmetto (Sabal minor)			
Chinese privet (Ligustrum species)	Florida anise (Illicium floridanum)			
Chinese holly and its many cultivars such as 'Burford' and	Golden St. John's wort (Hypericum frondosum)			
'Nellie Stevens' (llex cornuta x.)	Inkberry holly (Ilex glabra)			
Japanese barberry (Berberis thunbergii)	Leucothoe (Agarista populifolia)			
Japanese holly and its many cultivars (llex crenata x.)	Oak-leaf hydrangea (Hydrangea quercifolia)			
Japanese privet (Ligustrum species)	Staghorn sumac (Rhus typhina)			
Largeleaf lantana (Lantana camara)	Summersweet (Clethra alnifolia)			
Leatherleaf (Mahonia bealii)	Sweetspire (Itea virginica)			
Russian olive (Eleagnus species)	Viburnum (many species)			
Sacred bamboo (Nandina domestica)	Wax myrtle (Myrica cerifera, Morella cerifera)			
	Winterberry (Ilex verticillata)			
	Yaupon holly (Ilex vomitoria)			
Vin	IES			
Chinese wisteria (Wisteria sinensis)	American wisteria (Wisteria fructescens)			
Creeping wintercreeper (Euonymus fortunei)	Carolina jessamine (Gelsemium sempervirens)			
English ivy (Hedera helix)	Climbing aster (Ampelaster carolinianus)			
Japanese wisteria (Wisteria floribunda)	Crossvine (Bignonia capreolata)			
Periwinkle (Vinca major, Vinca minor)	Maypops (Passiflora incarnata)			
Porcelainberry (Ampelopsis brevipedunculata)	Trumpet honeysuckle (Lonicera sempervirens)			
Peren	INIALS			
Butterfly bush (Buddleja davidii)	Alumroot (Heuchera americana)			
Chameleon plant (Houttunya cordata)	Bleeding heart (Dicentra canadensis or eximia)			
Lambsquarters (Chenopodium album)	Eastern columbine (Aquilegia canadensis)			
Largeleaf lantana (Lantana camara)	Fire pink (Silene virginica)			
Mountain bluet (Centaurea montana)	Foamflower (Tiarella cordifolia)			
Asiatic dayflower (Commelina communis)	Green-and-gold (Chrysogonum virginianum)			
Oxeye daisy (Leucanthemum vulgare)	Phlox (many species)			
Yellow archangel (Lamium maculatum or Lamiastrum)	Tickseed (many species of Coreopsis)			
	Wild geranium (Geranium maculata)			

Section 6: Plant Pit, Hedge Trench, and Shrub Bed Preparation

Preparation of plant pits, hedge trenches and shrub beds shall be done in conformance with Leaflet No: 601, Planting Techniques for Trees and Shrubs, North Carolina Cooperative Extension Service, (1997), and the following procedures (see illustration below):

- Excavate pits with vertical sides approximately the depth of the rootball and with a circular outline which shall be approximately 2 to 3 times wider than the rootball. For planting pits, beds or trenches which are to be developed where paving existed previously, all paving and base stone shall be removed as part of the excavation.
- Remove rock, debris, inorganic compositions and chemical residues from soil in planting pits.
- Cultivate shrub planting pits to a minimum depth of 18 inches. Ground cover and vine planting pits shall be cultivated to a minimum depth of 12 inches.
- Install root ball on a flat, compact surface of undisturbed soil and remove any inorganic ties on top of the rootball. Remove the top 1/3 of wire baskets.
- Leave the top of the tree root ball exposed, to be covered by mulch only.
- Finish the planting with a minimum 3-inch layer of mulch of pine needles, tree bark or similar materials distributed around the tree trunk.
- Prepare soil, plant, fertilize, mulch, and control insects and disease in conformance with the North Carolina Cooperative Extension Service, Landscape Management Calendar, which is incorporated by reference hereto.
- Re-establish native plants salvaged from the site or relocated as a result of grading in conformance with the recommendations of the North Carolina Cooperative Extension Service.
- Support trees and shrubs adequately when planted in order to avoid interference with their typical growing patterns.

