VA DCR STORMWATER DESIGN SPECIFICATION NO. 9

Table 9.4. Popular Native Plant Materials for Bioretention

Perennials/Herbaceous	Shrubs	Trees				
Virginia Wild Rye	Common Winterberry	River Birch				
(Elymus virginicus)	(Ilex verticillatta)	(Betula nigra)				
Redtop Grass	Inkberry	Red Maple				
(Agrostis alba)	(llex glabra)	(Acer rubrum)				
Swamp Milkweed	Sweet Pepperbush	Pin Oak				
(Asclepias incarnata)	(Clethra ainifolia)	(Quercus palustris)				
Switchgrass	Wax Myrtle	Willow Oak				
(Panicum virgatum)	(Myrica cerifera)	(Quercus phellos)				
Cardinal Flower	Virginia Sweetspire	Sweetgum				
(Lobelia cardinalis)	(Itea virginica)	(Liquidambar styraciflua)				
Common Three Square	Swamp Azeala	Black Willow				
(Scirpus americanus)	(Azeala viscosum)	(Salix nigra)				
Sensitive Fern	Button Bush	Grey Birch				
(Onoclea sensibilis)	(Cephalanthus occidentalis)	(Betula populifolia)				
Blue Flag	Black Haw	Black Gum				
(Iris versicolor)	(Virburnum prunifolium))	(Nyassa sylvatica)				
Woolgrass	Indigo Bush	Sycamore				
(Scirpus cyperninus)	(Amorpha fruticosa)	(Platanus occidentalis)				
Indian Grass	Arrowwood	Green Ash				
(Sorghastrum nutans)	(Virburum dentatum)	(Fraxinus pennsylvanica				
Marsh Marigold		Sweetbay Magnolia*				
(Caltha palustris)		(Magnolia virginiana)				
Joe Pye Weed		Atlantic White Cedar*				
(Eupatorium purpureum)		(Charnaecyparis thyoides)				
Turk's cap lily		Bald Cypress*				
(Lilium superbum)		(Taxodium distichum)				
Bee Balm		Grey Dogwood				
(Mornarda didyma)		(Cornus racernosa)				
Northern Sea Oats		Smooth Alder				
(Chasmanthium latifolium)		(Alnus serrulata))				
(Serviceberry				
		(Amelanchier canadensis)				
		Redbud				
		(Cercis candensis)				
		Box Elder				
		(Acer negundo)				
		Fringe Tree				
		(Chionanthus virginicus)				

inundation, drought and salt tolerance for each species.

* most applicable to the coastal plain

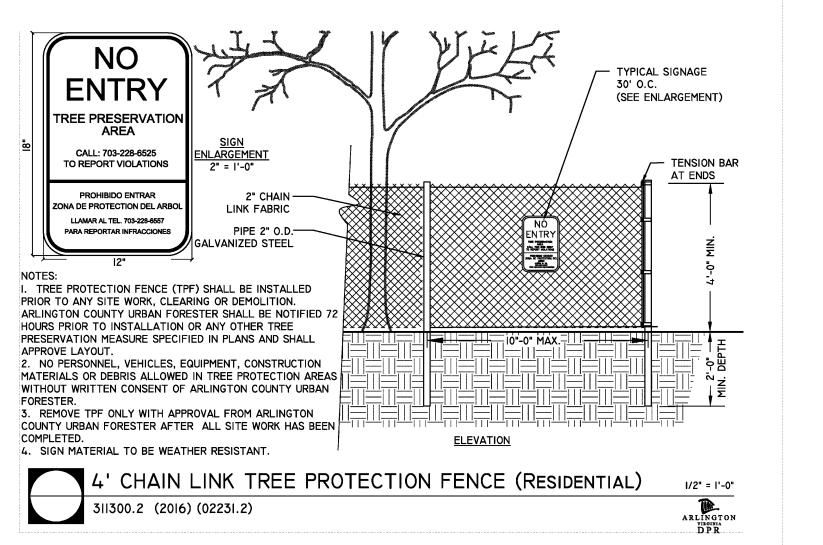
	Botanical Name	Common Name	Size DBH (in)						1	Activities			
Tree #				Radius (ft)	Rating (%)	Condition%				Root Prune	Root Matting	Hand Removal/ Selective Removal	Notes
	ey Information Completed by	Ornamental Cherry	12"	12'	≠ MA-538 55%	5A #(18-08) 66%	5) 02/	/11/2019	,				
101	Prunus spp.		12					X					
102	Ulmus americana	American elm		13'	53%	66%		X					
103	Cercis canadensis	Eastern redbud	16"	16'	73%	63%		X					
104	Amelanchier arborea	Downy serviceberry	12"	12'	80%	69%		X					
105	Cercis canadensis	Eastern redbud	12"	12'	73%	66%		X					
106	Lagerstroemia indica	Crape Myrtle	16"	16'	78%	69%		X					
107	Amelanchier arborea	Downy serviceberry	12"	12'	80%	66%	0		X				
108	Fraxinus pennsylvanica	Green ash	16"	16'	53%	63%	0		X				
109	Cornus florida	Flowering dogwood	5"	8'	60%	66%	0		X				
110	Cornus florida	Flowering dogwood	3"	8'	60%	66%	0		X				
111	Liriodendron tulipifera	Yellow-poplar	40"	40'	70%	63%	0		X	X			Twin
112	Fagus grandifolia	American beech	10"	10'	80%	66%	0		X	Х			
113	Prunus spp.	Ornamental Cherry	13"	13'	55%	63%		X					
114	Carya spp.	Hickory	12"	12'	75%	72%	0		X	Х			
115	Liriodendron tulipifera	Yellow-poplar	45"	45'	70%	66%		X					
116	Quercus alba	White oak	30"	30'	88%	63%		X					
117	Liriodendron tulipifera	Yellow-poplar	40''	40'	70%	63%		X					
118	Liriodendron tulipifera	Yellow-poplar	36"	36'	70%	66%		X					
119	Acer saccharinum	Silver maple	14"	14'	45%	56%		Х					
120	Liriodendron tulipifera	Yellow-poplar	36"	36'	70%	66%		Х					
121	Liriodendron tulipifera	Yellow-poplar	44"	44'	70%	66%			Х	Х			
122	Cornus florida	Flowering dogwood	3"	8'	60%	69%	0		Х				
123	Cornus florida	Flowering dogwood	3"	8'	60%	69%	0		Х				
124	Cornus florida	Flowering dogwood	4"	8'	60%	69%	0		Х				
125	Liriodendron tulipifera	Yellow-poplar	36"	36'	70%	69%	s		X				
126	Juniperus virginiana	Eastern redcedar	5"	8'	75%	56%	0		Х				
127	Liriodendron tulipifera	Yellow-poplar	30"	30'	70%	69%	0		Х				
128	Quercus prinus	Chestnut oak	13"	13'	75%	66%			X				
129	Quercus rubra	Northern red oak	11"	11'	75%	63%			Х				
130	Liriodendron tulipifera	Yellow-poplar	30"	30'	70%	63%			Х				
131	Carya spp.	Hickory	12"	12'	75%	69%			Х				
132	Prunus serotina	Black cherry	8"	8'	55%	50%			Х				
133	Quercus rubra	Northern red oak	9"	9'	75%	50%			Х				
134	Liriodendron tulipifera	Yellow-poplar	45"	45'	70%	66%	0		X				
135	Carya spp.	Hickory	7"	8'	75%	66%			X				
136	Liriodendron tulipifera	Yellow-poplar	28"	28'	70%	66%	0		X				
137	Liriodendron tulipifera	Yellow-poplar	30"	30'	70%	63%			X	Х	X		
138	Liriodendron tulipifera	Yellow-poplar	28"	28'	70%	63%			X	Х	х		
139	Liriodendron tulipifera	Yellow-poplar	28"	28'	70%	66%	0		X	Х	x		
140	Juglans nigra	Black walnut	3"	8'	68%	66%			X	Х	x		
141	Betula nigra	River birch	12"	12'	70%	63%	0		X				
142	Morus alba	White mulberry	10"	10'	30%	63%	0		X				

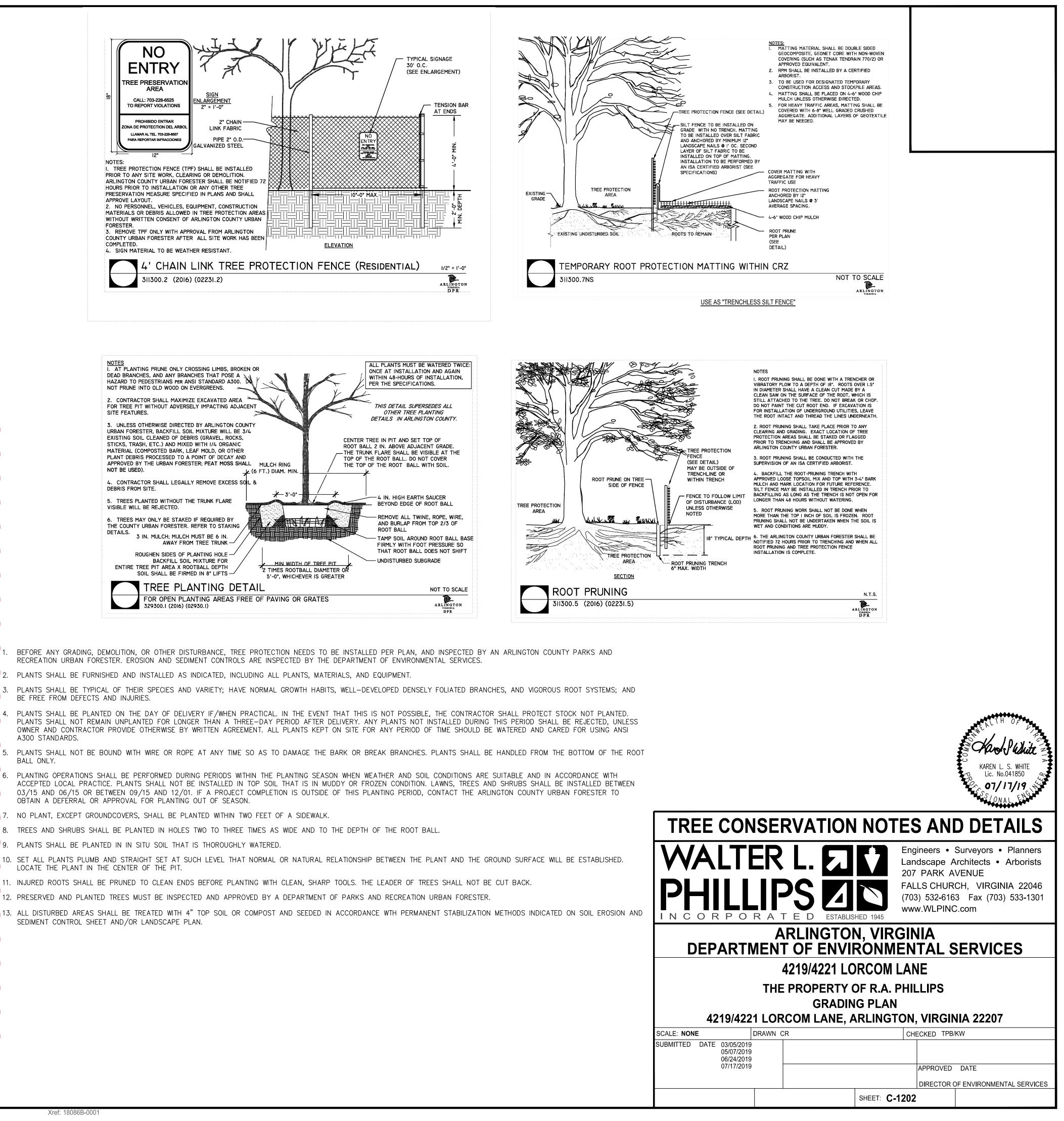
CRZ values for trees with multiple stems were calculated based on methods outlined in the 9th edition of the Guide for Plant Appraisal, published by the LS.A Condition Ratings provided as percentages based on methods outlined in the 9th edition of the Guide for Plant Appraisal, published by the I.S.A

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Tax Map No. 32-16

Job No. 18-086 Cadd Dwg. File: Q:\sdskproj\18086\dwg\Engineering\GP\18086C-1201.dwg





- BEFORE ANY GRADING, DEMOLITION, OR OTHER DISTURBANCE, TREE PROTECTION NEEDS TO BE INSTALLED PER PLAN, AND INSPECTED BY AN ARLINGTON COUNTY PARKS AND RECREATION URBAN FORESTER. EROSION AND SEDIMENT CONTROLS ARE INSPECTED BY THE DEPARTMENT OF ENVIRONMENTAL SERVICES.
- PLANTS SHALL BE FURNISHED AND INSTALLED AS INDICATED, INCLUDING ALL PLANTS, MATERIALS, AND EQUIPMENT.
- PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS, WELL-DEVELOPED DENSELY FOLIATED BRANCHES, AND VIGOROUS ROOT SYSTEMS; AND BE FREE FROM DEFECTS AND INJURIES.
- 4. PLANTS SHALL BE PLANTED ON THE DAY OF DELIVERY IF/WHEN PRACTICAL. IN THE EVENT THAT THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PROTECT STOCK NOT PLANTED. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE-DAY PERIOD AFTER DELIVERY. ANY PLANTS NOT INSTALLED DURING THIS PERIOD SHALL BE REJECTED, UNLESS OWNER AND CONTRACTOR PROVIDE OTHERWISE BY WRITTEN AGREEMENT. ALL PLANTS KEPT ON SITE FOR ANY PERIOD OF TIME SHOULD BE WATERED AND CARED FOR USING ANSI A300 STANDARDS.
- PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES. PLANTS SHALL BE HANDLED FROM THE BOTTOM OF THE ROOT BALL ONLY.
- PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOP SOIL THAT IS IN MUDDY OR FROZEN CONDITION. LAWNS, TREES AND SHRUBS SHALL BE INSTALLED BETWEEN 03/15 AND 06/15 OR BETWEEN 09/15 AND 12/01. IF A PROJECT COMPLETION IS OUTSIDE OF THIS PLANTING PERIOD, CONTACT THE ARLINGTON COUNTY URBAN FORESTER TO OBTAIN A DEFERRAL OR APPROVAL FOR PLANTING OUT OF SEASON.
- NO PLANT, EXCEPT GROUNDCOVERS, SHALL BE PLANTED WITHIN TWO FEET OF A SIDEWALK.
- 8. TREES AND SHRUBS SHALL BE PLANTED IN HOLES TWO TO THREE TIMES AS WIDE AND TO THE DEPTH OF THE ROOT BALL.
- PLANTS SHALL BE PLANTED IN IN SITU SOIL THAT IS THOROUGHLY WATERED.
- 10. SET ALL PLANTS PLUMB AND STRAIGHT SET AT SUCH LEVEL THAT NORMAL OR NATURAL RELATIONSHIP BETWEEN THE PLANT AND THE GROUND SURFACE WILL BE ESTABLISHED. LOCATE THE PLANT IN THE CENTER OF THE PIT.
- 12. PRESERVED AND PLANTED TREES MUST BE INSPECTED AND APPROVED BY A DEPARTMENT OF PARKS AND RECREATION URBAN FORESTER.
- 13. ALL DISTURBED AREAS SHALL BE TREATED WITH 4" TOP SOIL OR COMPOST AND SEEDED IN ACCORDANCE WTH PERMANENT STABILIZATION METHODS INDICATED ON SOIL EROSION AND SEDIMENT CONTROL SHEET AND/OR LANDSCAPE PLAN.