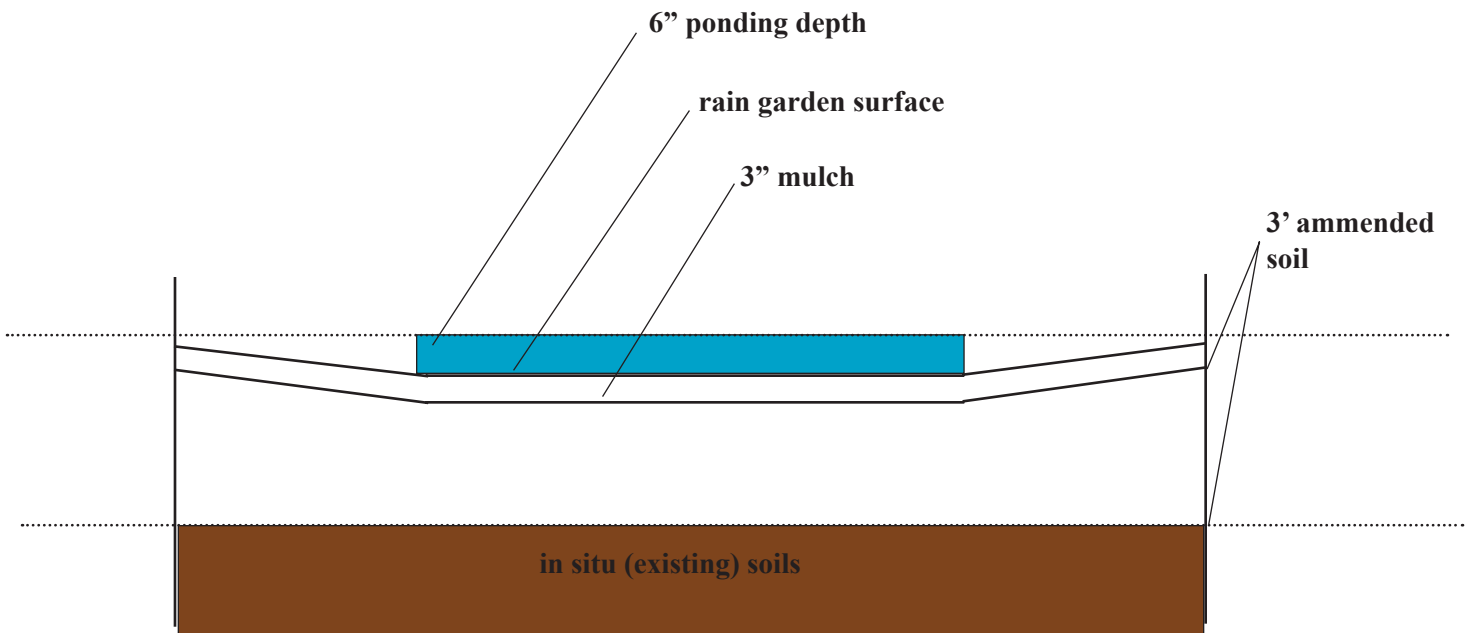
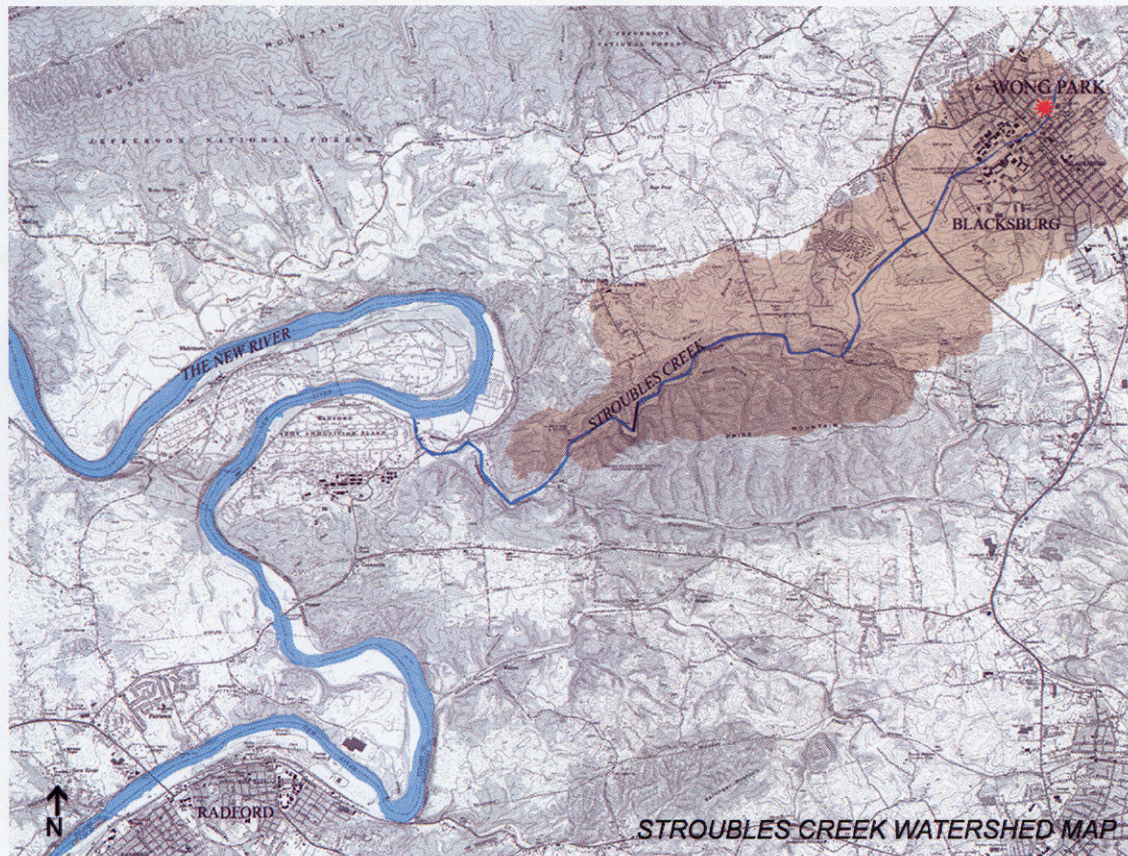


CHRISTIANSBURG-BLACKSBURG ROTARY
RAIN GARDEN @ Wong Park
May 2006



Section A-B

RAIN GARDENS AND OUR WATERSHED



WHAT IS A WATERSHED?

It is the area of land that catches rain or snow and then drains into the groundwater, streams, lakes, rivers, and eventually the ocean.

THE WATERSHED OF WONG PARK

Wong Park lies within the Stroubles Creek watershed. It is a 14.3 acre sub-watershed that drains into the New River in southwest Virginia. Stroubles Creek starts in the northern part of Blacksburg where it is characterized by limestone/dolomite formations. The creek bed contains alluvium-flood-plain deposits of sand, silt, and clay, as well as pebbles and cobbles. This creek flows through urban and agricultural areas, which are both threats to the health of Stroubles Creek and the New River. Non-point source pollution, which includes agricultural activity and increased development, is the main source of pollution in the watershed.

WONG PARK : BLACKSBURG, VIRGINIA

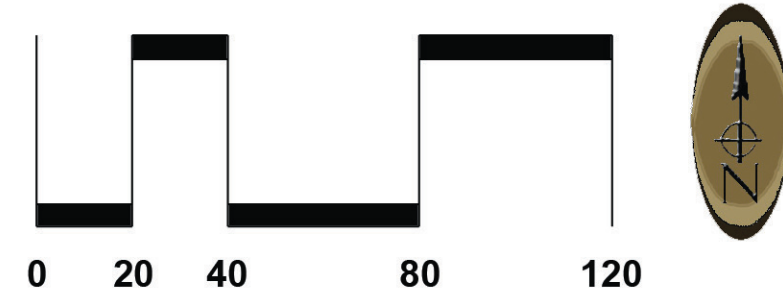
Stroubles Creek Watershed, Rain Garden Master Plan


community design
assistance center
 College of Architecture and Urban Studies
 Virginia Polytechnic Institute and State University



This drawing is conceptual and was prepared to show approximate location and arrangement of site features. It is subject to change and is not intended to replace the use of construction documents. The client should consult appropriate professionals before any construction or site work is undertaken. The Community Design Assistance Center is not responsible for the inappropriate use of this drawing.

- Upland Species Rain Garden
- Urban Species Rain Garden
- Lowland Species Rain Garden
- Eastern Parking Rain Garden



















WONG PARK

CHRISTIANSBURG-BLACKSBURG ROTARY RAIN GARDEN : Plant List for Wong Park

TREES






name	exposure	interest	season	wet zone	height + spacing	image
<i>Amelanchier canadensis</i> (Shadbush)	partial sun - shade	multi stem white flowers edible fruit orange + red fall color	march - may	2-3	15' - 25'	
<i>Aralia spinosa</i> (Hercules Club)	sun - partial shade	white flowers yellow - red fall color	june - august	1-4	10' - 20'	
<i>Cercis canadensis</i> (Redbud)	partial sun - shade	pink - lavender flowers reddish new leaves + buds	april - may	2-3	20' - 30'	
<i>Chionanthus virginicus</i> (Fringetree)	sun - shade	white + pendulous flowers very fragrant gold fall color	may - june	2-3	20' - 35'	
<i>Crataegus pruinosa</i> (Frosted Hawthorne)	sun - partial shade	white flowers purple fruit orange + red fall color	may	1-4	24'	
<i>Crataegus viridis 'Winter King'</i> (Green Hawthorne)	sun - shade	white flowers red fruit purple + red fall color	april	2-3	20' - 35'	
<i>Cornus amomum</i> (Silky Dogwood)	sun - partial shade	white flowers blue fruit	spring	2-4	20' - 35'	

CHRISTIANSBURG-BLACKSBURG ROTARY RAIN GARDEN : Plant List for Wong Park

<u>SHRUBS</u>						
name	exposure	interest	season	wet zone	height + spacing	image
<i>Aronia melanocarpa</i> (Black Chokeberry)	full sun - shade	white flowers red stems black berries dark purple + red fall color	may	1-3	3-5'h + 3-4' spacing	
<i>Callicarpa americana</i> (Beautyberry)	full sun - shade	lavender + pink flowers yellow fall color purple berries	june - august	3-4	4-8'h + 4-6' spacing	
<i>Clethra alnifolia</i> (Sweet Pepper Bush)	full sun - shade	fragrant white + pink flowers yellow fall color	july - september	1-2	3-8'h + 4-6' spacing	
<i>Hypericum densiflorum</i> (Bushy St. Johns Wort)	full sun - shade	yellow flowers	summer	1-3	4-6' h + 3-4' spacing	
<i>Ilex verticillata</i> (Winterberry)	full sun - shade	white flowers red berries yellow fall color	may - july	1-2	6'-12' h + 6-8' spacing	
<i>Itea virginica</i> (Virginia Sweetspire)	full sun - shade	fragrant white tassels garnet + purple fall color	may - june	1-2	3-5'h + 3-4' spacing	
<i>Juniperus horizontalis</i> (Blue Rug Juniper)	full sun - shade	evergreen g.c. blueish tint to foliage	year-round	3	1-2'h + 3-4' spacing	








CHRISTIANSBURG-BLACKSBURG ROTARY RAIN GARDEN : Plant List for Wong Park

SHRUBS, continued...

name	exposure	interest	season	wet zone	height + spacing	image
<i>Leucothoe recemosa</i> (Fetterbush)	partial shade - shade	white flowers red + purple leaves post frost	may - june	2-3	3-8' h + 4-6' spacing	
<i>Lindera benzoin</i> (Spicebush)	full sun - shade	chartreuse flowers red berries fragrant leaves yellow fall color	march - may	3-4	6-12' h + 6-8' spacing	
<i>Myrica cerifera</i> (Wax Myrtle)	full sun - shade	chartreuse + white flowers fragrant leaves + berries	march - april	1-4	6 - 10' h + 5-7' spacing	
<i>Physocarpus opulifolius</i> (Ninebark)	sun - partial shade	pink + white flower clusters peeling bark	may - june	1-3	6-12' h + 6-8' spacing	
<i>Vacconium angustifolium</i> (Low Bush Blueberry)	full sun - shade	white flowers edible fruit red fall color	may - june	3	2-3' h + 3-4" spacing	








CHRISTIANSBURG-BLACKSBURG ROTARY RAIN GARDEN : Plant List for Wong Park

PERENNIALS

name	exposure	interest	season	wet zone	height + spacing	image
<i>Aquilegia canadensis</i> (Wild Columbine)	full sun - partial shade	red + yellow flowrs elegant blue + green foilage	april - may	2-3	2' h + 9-12" spacing	
<i>Aruncus diocius</i> (Goat's Beard)	full sun - partial shade	small + creamy white flowers	may - july	2	3-6' h + 4-6' spacing	
<i>Calamagrostis canadensis</i> (Blue Joint Reed Grass)	full sun - partial shade	bluish color	year-round	1-2	2-4' h + 1-2' spacing	
<i>Carex stricta</i> (Tussock Sedge)	full sun - partial shade	tufty	year - round	1-2	1-3' h + 1-2' spacing	
<i>Chasmanthium latifolium</i> (River Oats)	sun - partial shade	resembles oats + barley	year - round	2-3	2-3' h + 1-2' spacing	
<i>Dicentra eximia</i> (Fringed Bleeding Heart)	shade	pink flowers mounding tendency	april-october	2	1.5 - 5.5'h + 6-9" spacing	
<i>Elymus virginicus</i> (Virginia Wild Rye)	shade	wild looking grass	june - october	1-2	1.5 - 5.5' h + 12" spacing	






CHRISTIANSBURG-BLACKSBURG ROTARY RAIN GARDEN : Plant List for Wong Park

PERENNIALS

name	exposure	interest	season	wet zone	height + spacing	image
<i>Eupatorium coelestinum</i> (Blue Mist Flower)	full sun - partial shade	blue flowers	august - november	1-3	2' h + 18-24" spacing	
<i>Eupatorium perfoliatum</i> (Indian Sage)	full sun - partial shade	vibrant white flowers	july - october	1-2	3-4' h + 18-24" spacing	
<i>Festuca rubra</i> (Red Fescue)	full sun - partial shade	resembles salt meadow hay	year-round	1-2	1-3' h + 6-12" spacing	
<i>Helianthus angustifolius</i> (Swamp Sunflower)	full sun - partial shade	yellow + maroon flowers	august - october	1	6-8' h + 1-2' spacing	
<i>Liatris spicata</i> (Dense Blazing Star)	full sun - partial shade	tall lavender blooms	july - september	2	1-5' h + 18-24" spacing	
<i>Lobelia cardinalis</i> (Cardinal Flower)	full sun - partial shade	vibrant red flowers	july - september	1-2	1-5' h + 6-12" spacing	
<i>Monarda fistulosa</i> (Wild Bergamot)	full sun - partial shade	pink + purple flowers fragrant foliage	july - august	2	1.5 - 5.5' h + 24-36" spacing	

CHRISTIANSBURG-BLACKSBURG ROTARY RAIN GARDEN : Plant List for Wong Park

PERENNIALS

name	exposure	interest	season	wet zone	height + spacing	image
<i>Osmunda cinnamomea</i> (Cinnamon Fern)	full sun - partial shade	evergreen cinnamon colored stamen	year-round	1-2	2-3' h + 2-3' spacing	
<i>Panicum virgatum</i> (Switch Grass)	full sun - partial shade	fine texture	year-round	1-3	2-5' h + 2-3' spacing	
<i>Penstemon digitalis</i> 'Husker Red' (Foxglove)	full sun	white flower reddish stem	june-july	1-2	1-2' h + 15-18" spacing	
<i>Sedum ternatum</i> (Woodland Stonecrop)	shade	frothy, star-shaped flowers	april	3	8" h + 2' spacing	
<i>Solidago rugosa</i> 'Fireworks' (Wrinkle leaf golden rod)	full sun	gold + yellow flowres	august - october	1-2	3-4' h + 24-36" spacing	
<i>Sorghastrum nutans</i> (Indian Grass)	full sun - partial shade	dainty seed pods	year - round	1-2	3-5' h + 1-2' spacing	