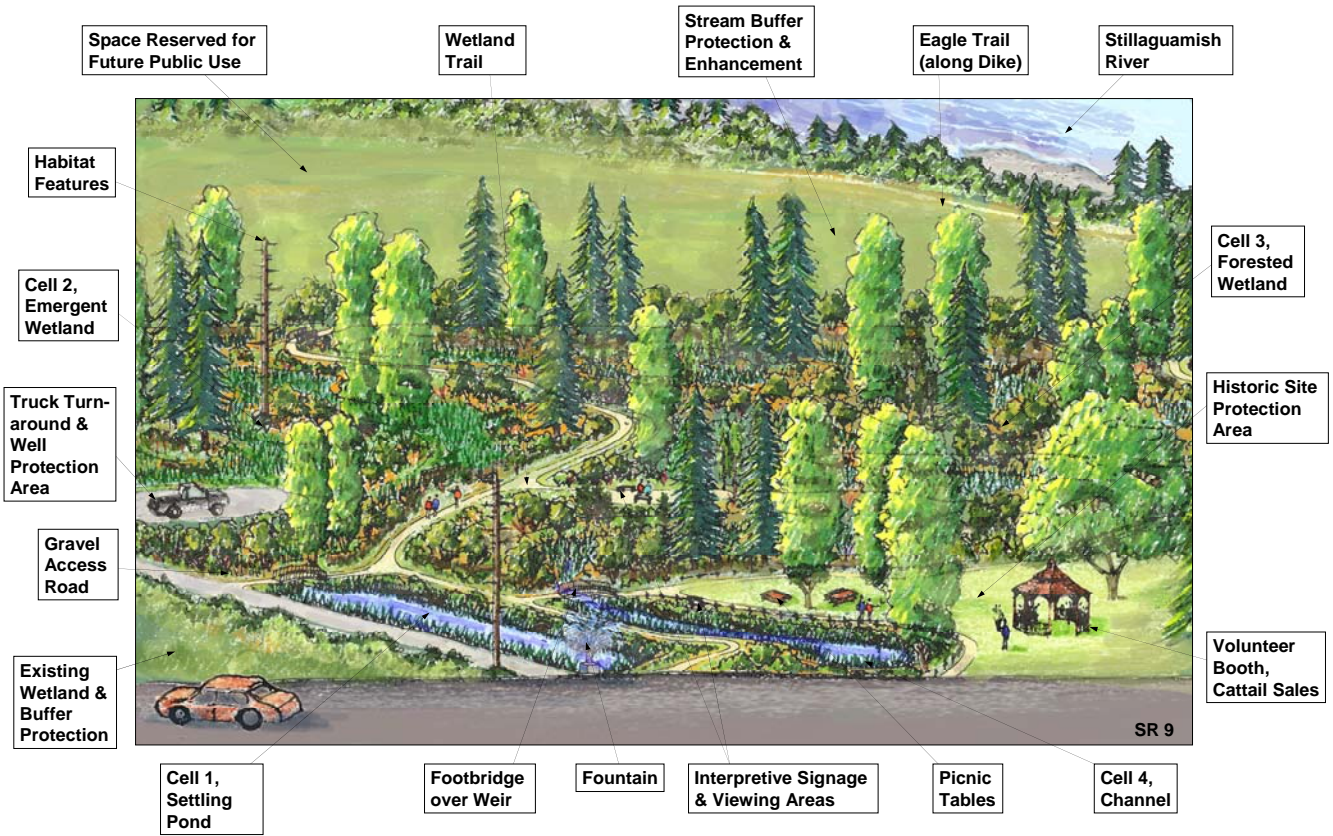


CITY OF ARLINGTON STORMWATER WETLAND PROJECT

Highlight Wetland Features



Goals, Objectives & Design Aspects

Goal 1: Meet NPDES permit requirements for water quality in effluent at the Butler outfall.	
Objectives:	A) Reduce water temperatures in stormwater and/or reclaimed water effluent B) Increase dissolved oxygen content in effluent C) Reduce nutrient concentration and biological oxygen demand in effluent
Design Aspects:	A) Provide settling area for suspended solids and associated nutrients and toxicants B) Provide forested canopy cover to shade water and lower temperature C) Provide aeration of effluent D) Provide increased retention time and interaction with soils and vegetation for nutrient cycling
Goal 2: Reduce peak flows at outfall from stormwater and wastewater sources.	
Objectives:	A) Provide water storage to reduce peak flows to the river B) Provide alternative discharge location for reclaimed wastewater from City WWTP
Design Aspects:	A) Provide large area for water storage B) Provide long, sinuous route for water travel during low flows C) Provide inlets for stormwater and for reclaimed water, including bypass mechanisms D) Allow for periodic flooding during storm events
Goal 3: Provide wildlife habitat within wetland and buffer area.	
Objective:	A) Provide multiple habitat types B) Provide connectivity to other habitats (shoreline corridor)
Design Aspects:	A) Create areas with varying water depths B) Install habitat features, such as bird nesting boxes, snags, rock piles and amphibian refuge C) Provide contiguous buffer corridor between wetland habitats and river
Goal 4: Provide recreational and education opportunities.	
Objectives:	A) Provide shoreline access, recreation and wildlife viewing opportunities B) Provide educational opportunities
Design Aspects:	A) Create public access trail along the river and through the wetland B) Install informational signs and viewing areas C) Create aesthetically pleasing features such as fountains D) Provide structure for volunteers to collect donations / sell harvested cattail bouquets E) Retain open space and existing buildings for future public use

