

BIO-RETENTION CELL DEMONSTRATION PROJECT



View of Bio-Retention Cell Demonstration Project
Site Viewed from Back Cove Trail along Baxter Boulevard

TREATMENT AREA AND VOLUMES CALCULATION SUMMARIES

Treatment Area	Square Feet (sf)	Treatment Volumes	Cubic Feet (cf)	Bio-Retention Cell Area Calculation
Impervious		Impervious	Area = 19,710 sf	2,201.9 cubic feet / 0.5 ft (max. depth of cell) = 4,403.66 sf
Existing Parking Lot	14,670 sf			
Existing Sidewalk	1,080 sf		19,710 sf X 1 inch / 0.083 ft = 1,635.9 cubic feet	
Relocated Trail	3,960 sf			
Sub-total	19,701 sf			
Permeable		Permeable	Area = 17,156 sf	
Lawn Area @ Preble Street	2,856 sf		17,156 sf 0.4" / 0.033 ft = 566 cubic feet	
Lawn and Landscape Area	14,300 sf			
Sub-total	17,156 sf	Total =	2,201.9 cubic feet	

