

## Project: PM9805 New LID Project



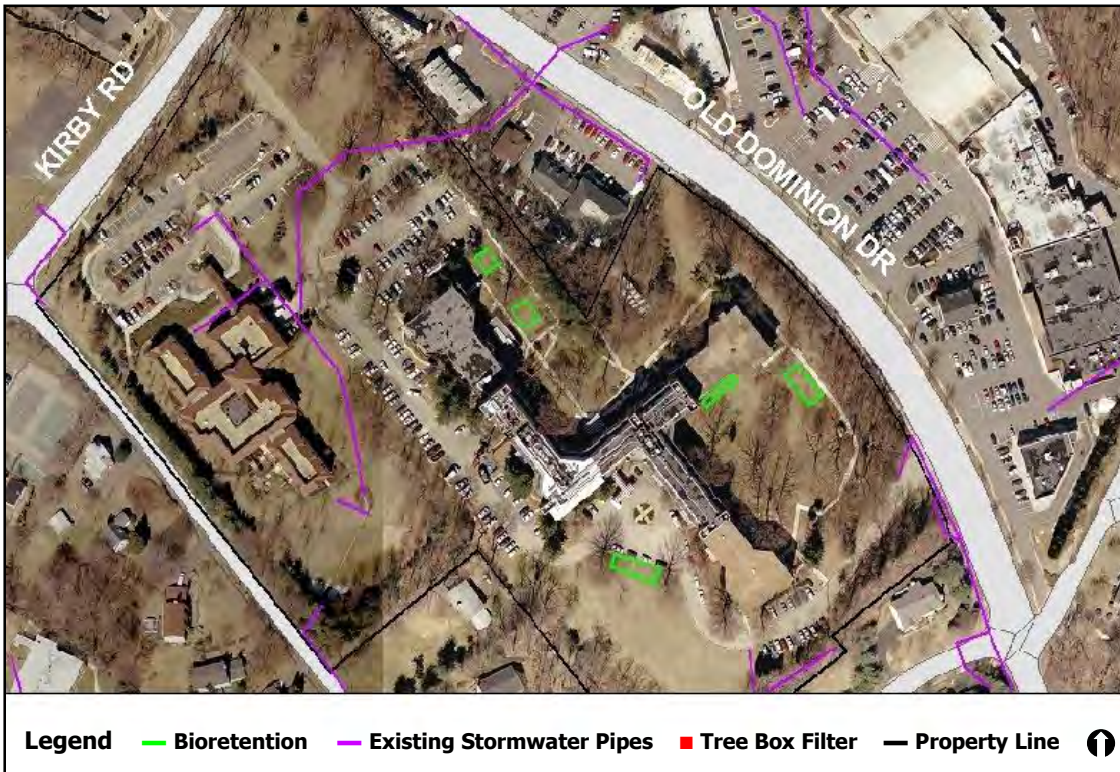
Vicinity Map

**Address:** 1739 Kirby Road  
**Location:** Vinson Hall  
**Land Owner:** Residential Development  
**PIN:** 0313 01 0083  
**Drainage Area:** 4.4 acres  
**Stream Name:** Unnamed tributary to Little Pimmit Run

**Description:** Construct bioretention areas in the grass areas around the buildings and the parking lots.

**Potential Benefits:** An estimated 4.3 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** BMP Retrofit Project PM9106 is also at this site and New LID Project PM9825 is adjacent to this facility. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Kirby Road. An easement will be required. There are no significant construction issues on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



*Site Photo: Facing southwest from Old Dominion Road*

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Bioretention	480	SY	\$250.00	\$120,000.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$123,000.00
			Mobilization (5%)	\$6,150.00
			<b>Subtotal 1</b>	\$129,150.00
			Contingency (25%)	\$32,287.50
			<b>Subtotal 2</b>	\$161,437.50
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$72,646.88
			<b>Estimated Project Cost</b>	<b>\$240,000.00</b>



## Project: PM9814 Neighborhood Stormwater Improvement Area



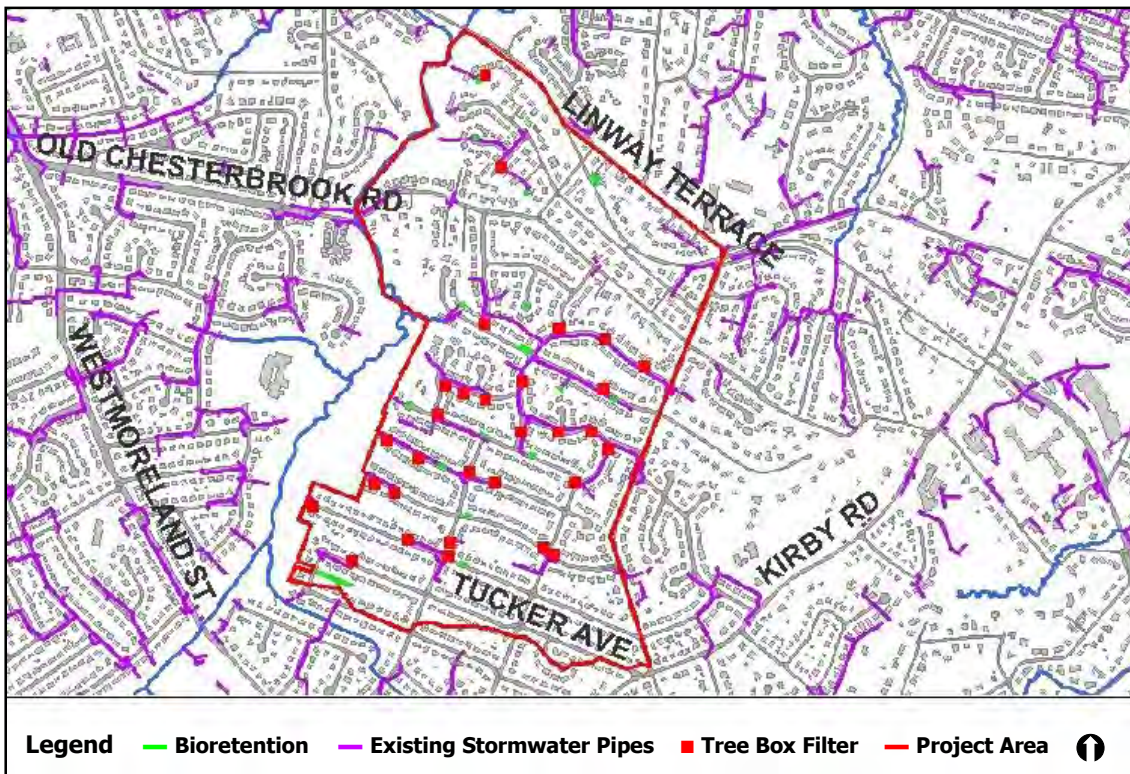
Vicinity Map

<b>Location:</b>	El Nido, Chesterbrook Garden and Grass Ridge Neighborhoods
<b>Land Owner:</b>	Private Residential and VA Department of Transportation
<b>Tax Map:</b>	30-4, 31-3, 40-2, and 41-2
<b>Drainage Area:</b>	15.8 acres
<b>Stream Name:</b>	Pimmit Run

**Description:** None of these neighborhoods have existing stormwater controls. Add bioretention areas in the grass right of way areas and replace thirty curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 14.7 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** Portions of these neighborhoods are in a floodplain and the Chesapeake Bay Resource Protection Area which have special permitting requirements. Installation of LID measures in these areas should be avoided. Easements will not be required. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



*Site Photo: Roadside area suitable for bioretention in the Grass Ridge Neighborhood*

**Costs:**

<b>ITEM</b>	<b>QUANTITY</b>	<b>UNITS</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Tree Box Filters	30	EA	\$5,000.00	\$150,000.00
Bioretention	860	SY	\$250.00	\$215,000.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$368,000.00
			Mobilization (5%)	\$18,400.00
			<b>Subtotal 1</b>	<b>\$386,400.00</b>
			Contingency (25%)	\$96,600.00
			<b>Subtotal 2</b>	<b>\$483,000.00</b>
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$217,350.00
			<b>Estimated Project Cost</b>	<b>\$710,000.00</b>



## Project: PM9819 Neighborhood Stormwater Improvement Area



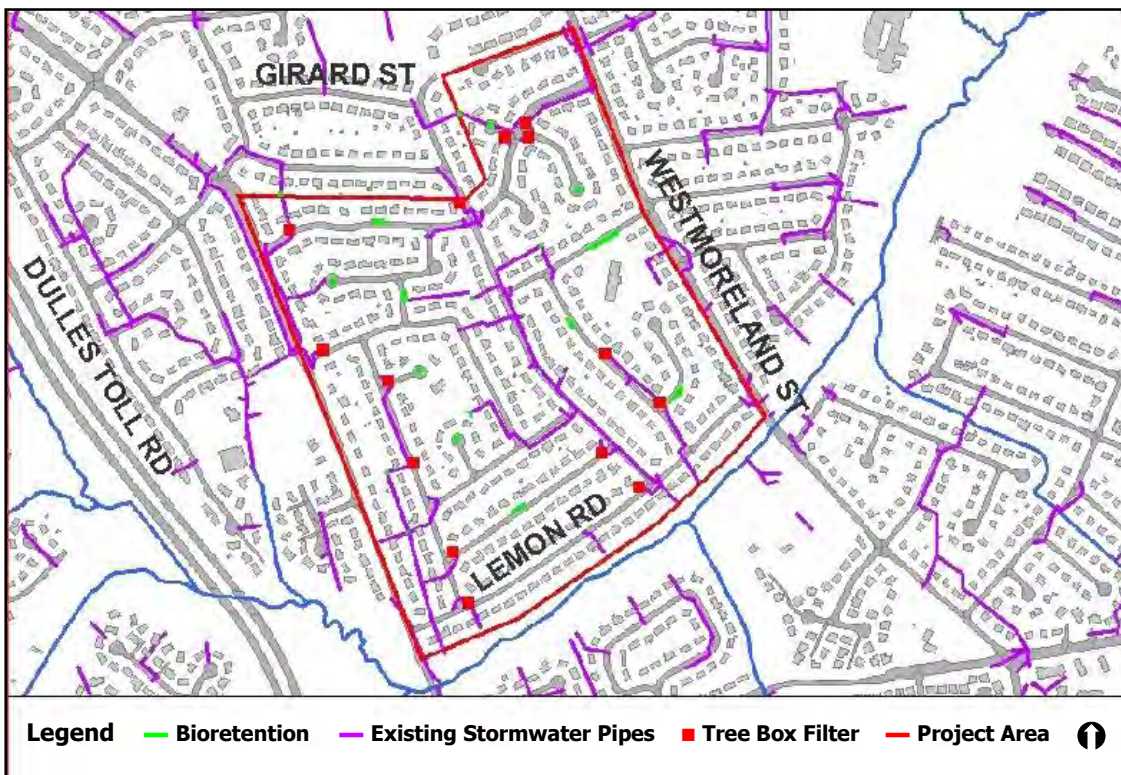
Vicinity Map

<b>Location:</b>	South Ridge and Devon Park Neighborhoods
<b>Land Owner:</b>	Private Residential and VA Department of Transportation
<b>Tax Map:</b>	30-3, 30-4, and 40-2
<b>Drainage Area:</b>	7.7 acres
<b>Stream Name:</b>	Pimmit Run

**Description:** Neither of these neighborhoods has existing stormwater controls. Add bioretention areas in the grass right of way areas and replace fourteen curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 7.2 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** Stream Restoration Project PM9225 and Buffer Restoration Project PM9317 are adjacent to this project. Coordination and sequencing of these projects should be considered. Portions of these neighborhoods are in a floodplain and the Chesapeake Bay Resource Protection Area which have special permitting requirements. Installation of LID measures in these areas should be avoided. Easements will not be required. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



*Site Photo: Roadside area suitable for bioretention in the Devon Park Neighborhood*

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Tree Box Filters	14	EA	\$5,000.00	\$70,000.00
Bioretention	440	SY	\$250.00	\$110,000.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$183,000.00
			Mobilization (5%)	\$9,150.00
			<b>Subtotal 1</b>	\$192,150.00
			Contingency (25%)	\$48,037.50
			<b>Subtotal 2</b>	\$240,187.50
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$108,084.38
			<b>Estimated Project Cost</b>	<b>\$350,000.00</b>



## Project: PM9821 New LID Project



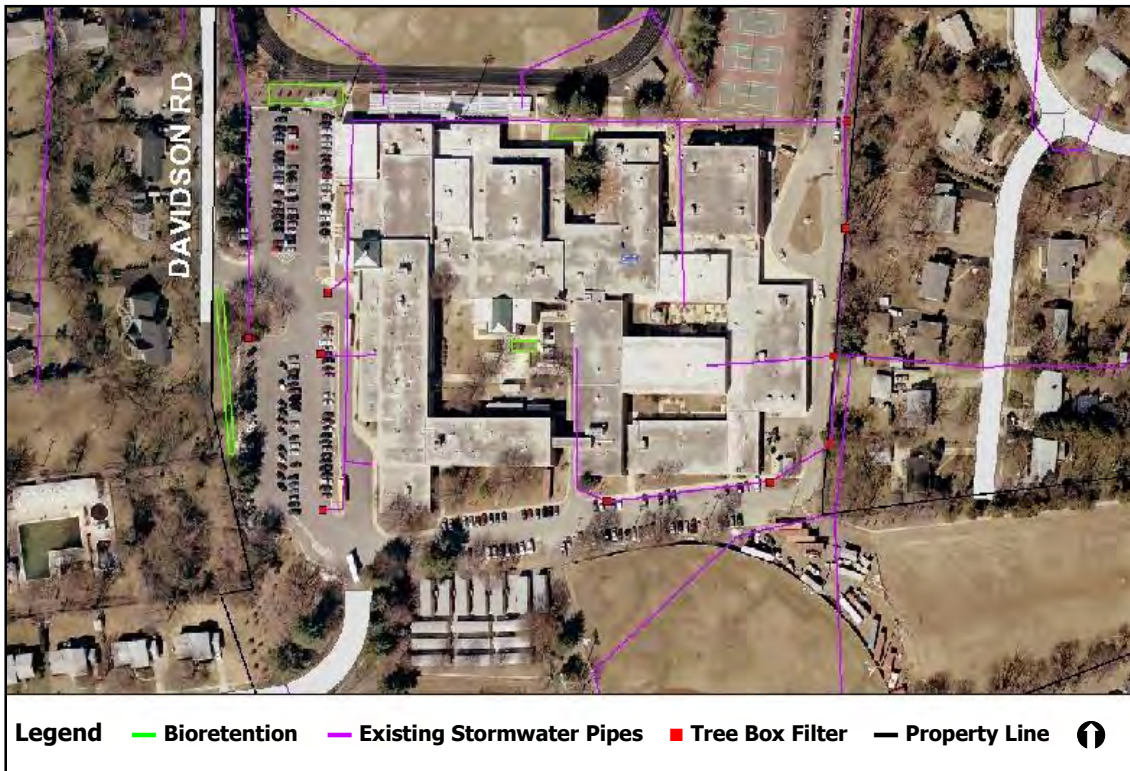
Vicinity Map

**Address:** 1633 Davidson Road  
**Location:** McLean High School  
**Land Owner:** Fairfax County Public Schools  
**PIN:** 0304 01 0019  
**Drainage Area:** 8.2 acres  
**Stream Name:** Saucy Branch

**Description:** The school does not have existing stormwater controls. Construct bioretention areas and a bioswale in the grass areas around the buildings and the parking lots. Replace ten curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 8.0 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** New BMP Project PM9120 is also at the high school and Stream Restoration Project PM9209 is downstream of the project site. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Davidson Road. An easement will not be required. There are no significant construction issues on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



*Site Photo: Looking at the south side of the school*

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Tree Box Filters	10	EA	\$5,000.00	\$50,000.00
Bioretention	620	SY	\$250.00	\$155,000.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
		Base Construction Cost		\$208,000.00
		Mobilization (5%)		\$10,400.00
		<b>Subtotal 1</b>		\$218,400.00
		Contingency (25%)		\$54,600.00
		<b>Subtotal 2</b>		\$273,000.00
		Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)		\$122,850.00
		<b>Estimated Project Cost</b>		<b>\$400,000.00</b>



## Project: PM9822 New LID Project



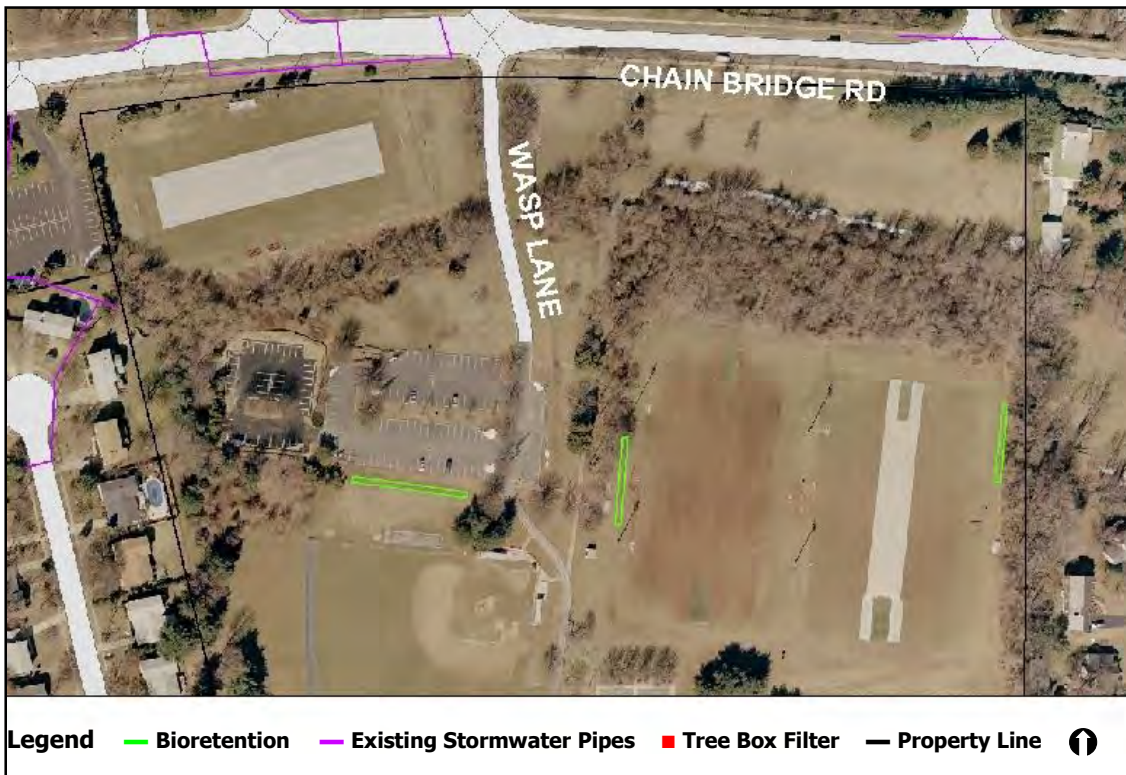
Vicinity Map

**Address:** 1659 Chain Bridge Road  
**Location:** Lewinsville Park  
**Land Owner:** Fairfax County Park Authority  
**PIN:** 0303 01 0038  
**Drainage Area:** 12.9 acres  
**Stream Name:** Saucy Branch

**Description:** The park does not have existing stormwater controls. Construct bioswales in the grass areas around the parking lot and athletic fields.

**Potential Benefits:** An estimated 2.7 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** There are minimal environmental permitting requirements for this project. The project site can be accessed from Chain Bridge Road. An easement will not be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



*Site Photo: Looking east at the soccer fields*

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Bioretention	240	SY	\$250.00	\$60,000.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$63,000.00
			Mobilization (5%)	\$3,150.00
			<b>Subtotal 1</b>	\$66,150.00
			Contingency (25%)	\$16,537.50
			<b>Subtotal 2</b>	\$82,687.50
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$37,209.38
			<b>Estimated Project Cost</b>	<b>\$120,000.00</b>



## Project: PM9823 New LID Project



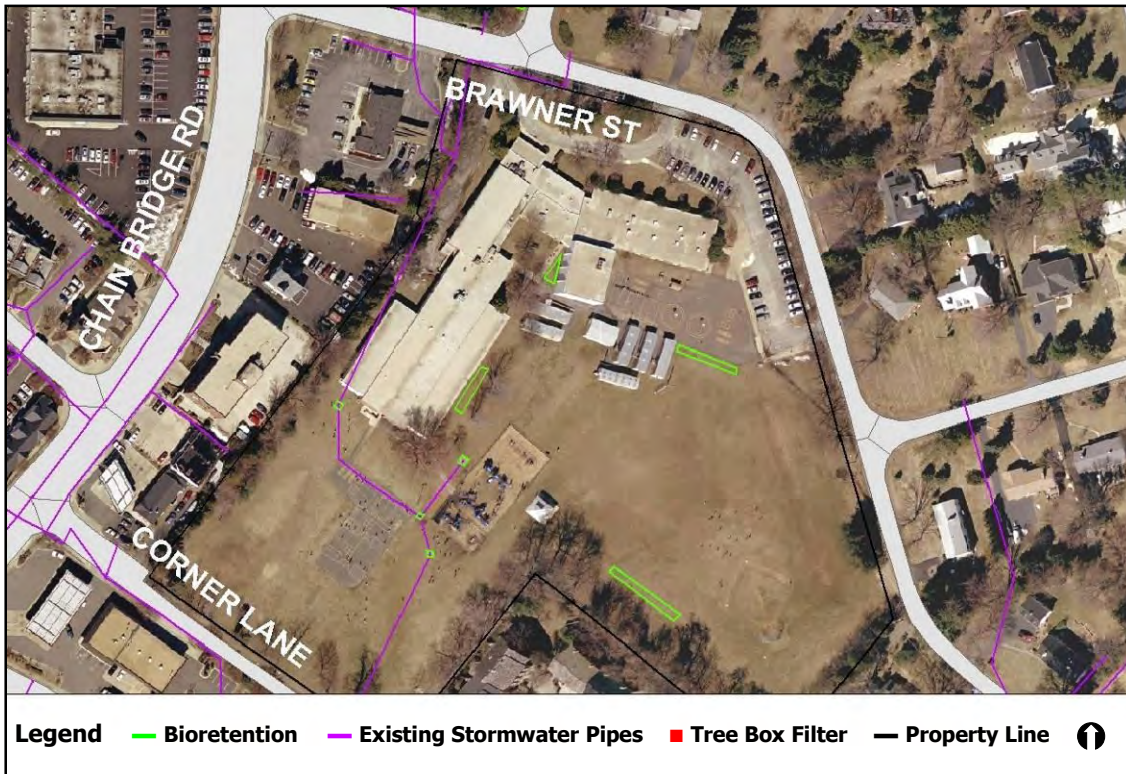
Vicinity Map

**Address:** 6630 Brawner Street  
**Location:** Franklin Sherman Elementary School  
**Land Owner:** Fairfax County Public Schools  
**PIN:** 0302 01 0049  
**Drainage Area:** 2.5 acres  
**Stream Name:** Unnamed tributary to Saucy Branch

**Description:** The school does not have existing stormwater controls. Construct bioretention areas and bioswales in the grass areas and around the yard inlets.

**Potential Benefits:** An estimated 2.5 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** New LID Project PM9877 is upstream of this project site. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Brawner Street. An easement will not be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



Site Photo: Looking west at the school

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Bioretention	280	SY	\$250.00	\$70,000.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$73,000.00
			Mobilization (5%)	\$3,650.00
			<b>Subtotal 1</b>	\$76,650.00
			Contingency (25%)	\$19,162.50
			<b>Subtotal 2</b>	\$95,812.50
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$43,115.63
			<b>Estimated Project Cost</b>	<b>\$140,000.00</b>



## Project: PM9824 New LID Project



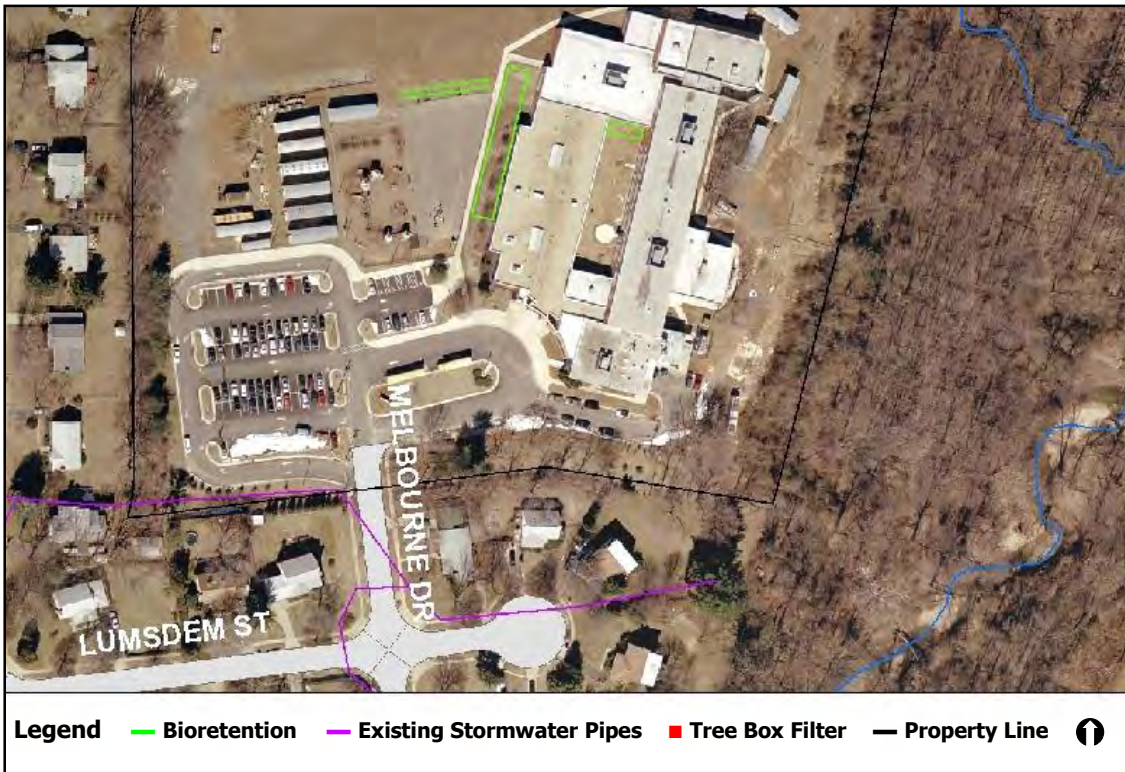
Vicinity Map

**Address:** 1717 Melbourne Drive  
**Location:** Kent Gardens Elementary School  
**Land Owner:** Fairfax County Public Schools  
**PIN:** 0304 01 0027A  
**Drainage Area:** 4.1 acres  
**Stream Name:** Pimmit Run

**Description:** The school does not have existing stormwater controls. Construct bioretention areas and a bioswale in the grass areas around the school.

**Potential Benefits:** An estimated 4.0 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** A portion of the project site is in the Chesapeake Bay Resource Protection Area which has special permitting requirements. Installation of LID measures in this area should be avoided. The project site can be accessed from Melbourne Drive. An easement will not be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures

**Costs:**

<b>ITEM</b>	<b>QUANTITY</b>	<b>UNITS</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Bioretention	480	SY	\$250.00	\$120,000.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$123,000.00
			Mobilization (5%)	\$6,150.00
			<b>Subtotal 1</b>	\$129,150.00
			Contingency (25%)	\$32,287.50
			<b>Subtotal 2</b>	\$161,437.50
Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)				\$72,646.88
			<b>Estimated Project Cost</b>	<b>\$240,000.00</b>



## Project: PM9825 New LID Project



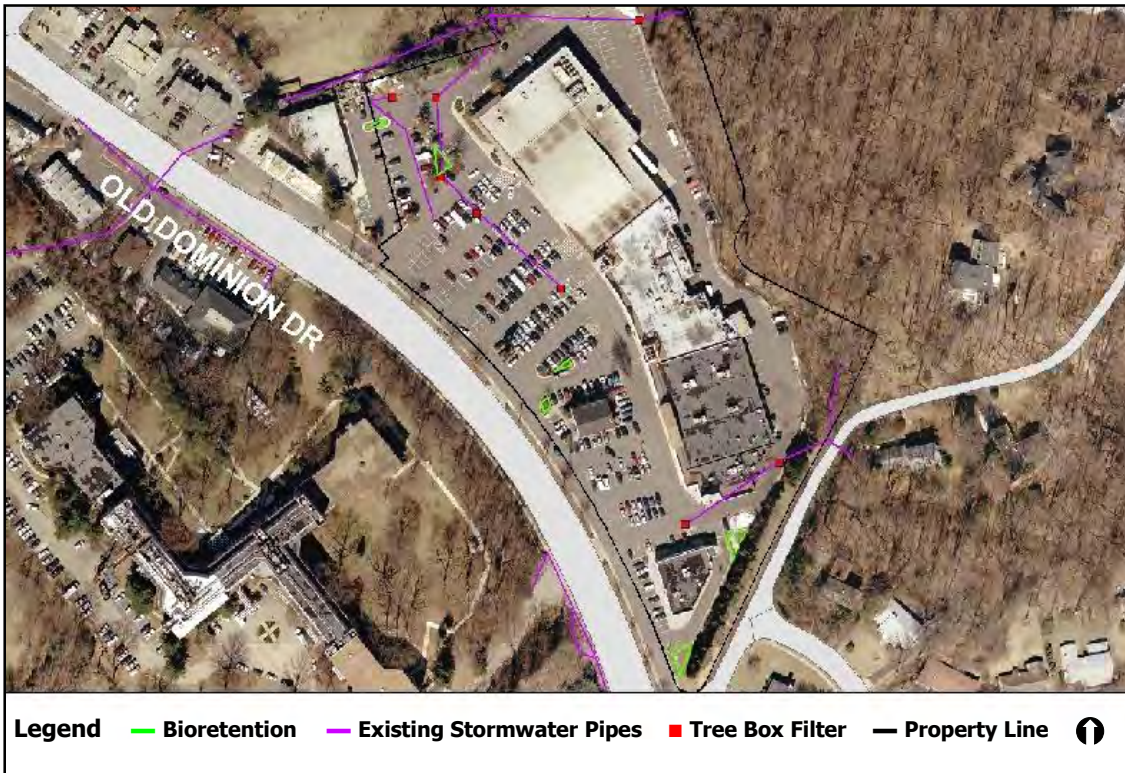
Vicinity Map

**Address:** 6224 Old Dominion Drive  
**Location:** Chesterbrook Shopping Center  
**Land Owner:** Commercial Development  
**PIN:** 0313 01 0113  
**Drainage Area:** 3.6 acres  
**Stream Name:** Unnamed tributary to Little Pimmit Run

**Description:** The shopping center does not have existing stormwater controls. Construct bioretention areas in the grass areas and replace eight curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 3.5 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** New LID Project PM9805 is adjacent to this project. Coordination and sequencing of these projects should be considered. A portion of the project site is in the Chesapeake Bay Resource Protection Area which has special permitting requirements. Installation of LID measures in this area should be avoided. The project site can be accessed from Old Dominion Drive. An easement will not be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures

**Costs:**

<b>ITEM</b>	<b>QUANTITY</b>	<b>UNITS</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Tree Box Filters	8	EA	\$5,000.00	\$40,000.00
Bioretention	190	SY	\$250.00	\$47,500.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$90,500.00
			Mobilization (5%)	\$4,525.00
			<b>Subtotal 1</b>	\$95,025.00
			Contingency (25%)	\$23,756.25
			<b>Subtotal 2</b>	\$118,781.25
Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)				\$53,451.56
			<b>Estimated Project Cost</b>	<b>\$180,000.00</b>



## Project: PM9829 New LID Project



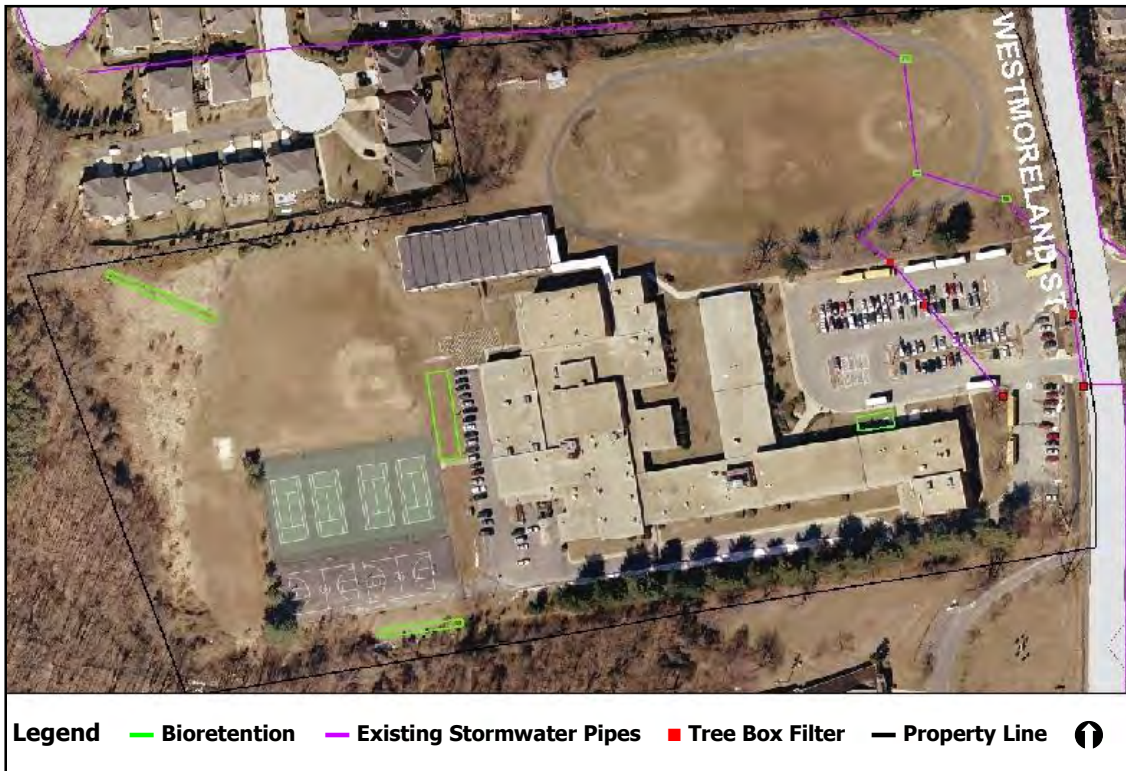
Vicinity Map

**Address:** 2000 Westmoreland Street  
**Location:** Longfellow Middle School  
**Land Owner:** Fairfax County Public Schools  
**PIN:** 0402 01 0027A  
**Drainage Area:** 7.2 acres  
**Stream Name:** Burke's Spring Branch

**Description:** The school does not have existing stormwater controls. Construct bioretention areas in the grass areas around the school and yard inlets and replace five curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 6.7 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** New LID Project PM9874 is adjacent to this project site, as well as Stream Restoration Project PM9225. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Westmoreland Street. An easement will not be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



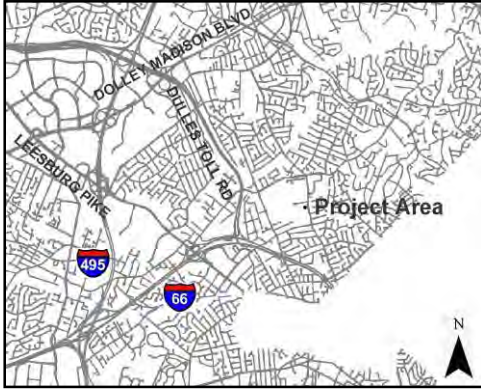
Site Photo: Looking south towards the school from the parking lot

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Tree Box Filters	5	EA	\$5,000.00	\$25,000.00
Bioretention	620	SY	\$250.00	\$155,000.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$183,000.00
			Mobilization (5%)	\$9,150.00
			<b>Subtotal 1</b>	\$192,150.00
			Contingency (25%)	\$48,037.50
			<b>Subtotal 2</b>	\$240,187.50
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$108,084.38
			<b>Estimated Project Cost</b>	<b>\$350,000.00</b>



## Project: PM9830 New LID Project



Vicinity Map

**Address:** 2100 Westmoreland Street  
**Location:** Temple Rodef Shalom  
**Land Owner:** Private Organization  
**PIN:** 0402 01 0019  
**Drainage Area:** 3.0 acres  
**Stream Name:** Burke's Spring Branch

**Description:** Construct bioretention strips in the grass areas around the temple and replace five curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 2.6 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** BMP Retrofit Project PM9134 and Infrastructure Improvement Project PM9464 are also at the temple and New LID Project PM9831 is just upstream of this site. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Westmoreland Street. An easement will be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



*Site Photo: Looking east towards the parking lot and synagogue.*

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Tree Box Filters	5	EA	\$5,000.00	\$25,000.00
Bioretention	170	SY	\$250.00	\$42,500.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$70,500.00
			Mobilization (5%)	\$3,525.00
			<b>Subtotal 1</b>	<b>\$74,025.00</b>
			Contingency (25%)	\$18,506.25
			<b>Subtotal 2</b>	<b>\$92,531.25</b>
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$41,639.06
			<b>Estimated Project Cost</b>	<b>\$140,000.00</b>



## Project: PM9831 New LID Project



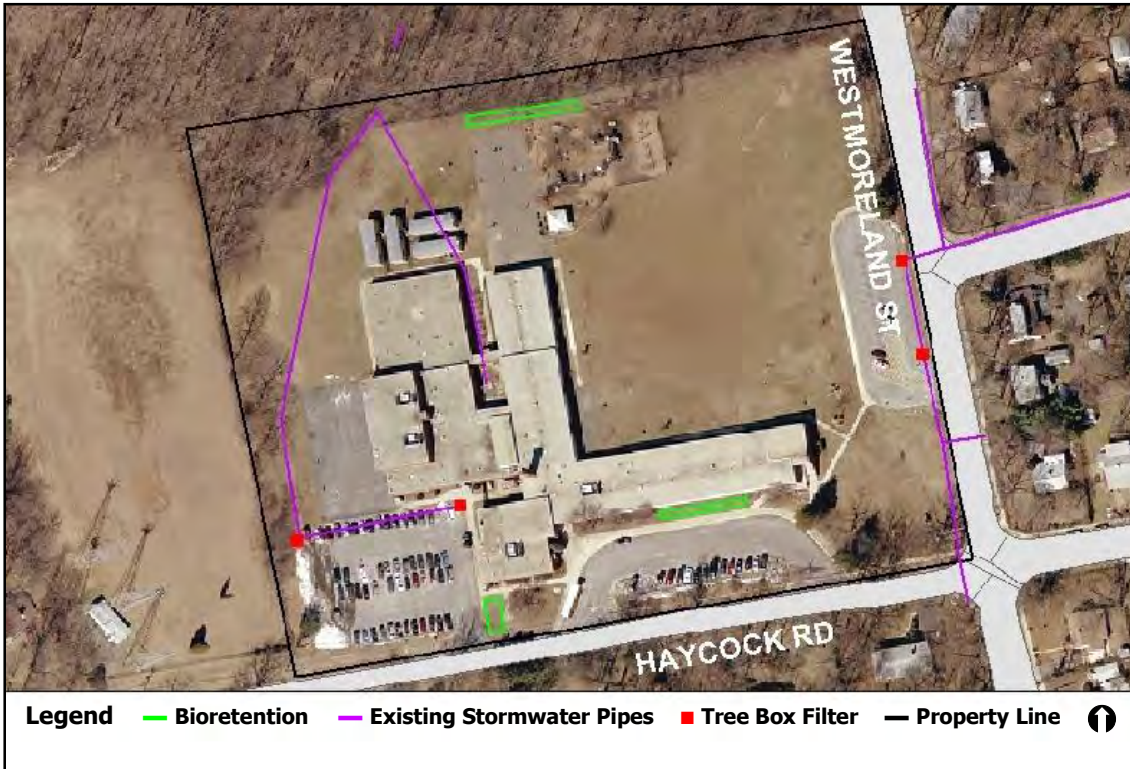
Vicinity Map

**Address:** 6616 Haycock Road  
**Location:** Haycock Elementary School  
**Land Owner:** Fairfax County Public Schools  
**PIN:** 0402 01 0017A  
**Drainage Area:** 3.0 acres  
**Stream Name:** Burke's Spring Branch

**Description:** The school does not have existing stormwater controls. Construct bioretention areas and a bioswale in the grass areas around the school and replace two curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 2.9 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** BMP Retrofit Project PM9134, Infrastructure Improvement Project PM9464, and New LID Project PM9830 are just downstream of this site. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Haycock Road. An easement will not be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



Site Photo: Looking northwest towards *the* playground

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Tree Box Filters	2	EA	\$5,000.00	\$10,000.00
Bioretention	280	SY	\$250.00	\$70,000.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$83,000.00
			Mobilization (5%)	\$4,150.00
			<b>Subtotal 1</b>	\$87,150.00
			Contingency (25%)	\$21,787.50
			<b>Subtotal 2</b>	\$108,937.50
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$49,021.88
			<b>Estimated Project Cost</b>	<b>\$160,000.00</b>



## Project: PM9839 New LID Project



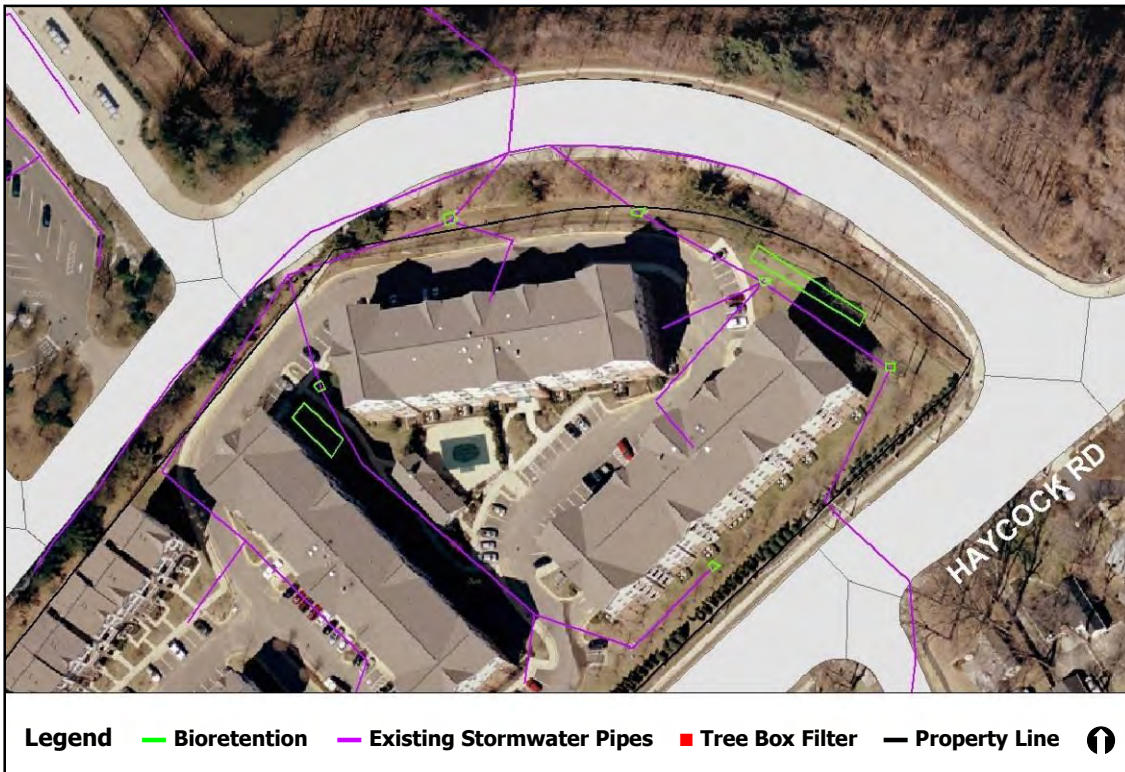
Vicinity Map

**Address:** 7011 Falls Reach Drive  
**Location:** Pavilion Condominium Complex  
**Land Owner:** Residential Development  
**PIN:** 0404 42020113  
**Drainage Area:** 2.0 acres  
**Stream Name:** Unnamed tributary to Bridge Branch

**Description:** The site does not have existing stormwater controls. Construct bioretention areas in the grass areas around the condos and around yard inlets.

**Potential Benefits:** An estimated 2.0 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** BMP Retrofit Project PM9140 is downstream of this site. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Haycock Road. An easement will be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



*Site Photo: Looking south towards one of the parking lots*

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Bioretention	230	SY	\$250.00	\$57,500.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$60,500.00
			Mobilization (5%)	\$3,025.00
			<b>Subtotal 1</b>	\$63,525.00
			Contingency (25%)	\$15,881.25
			<b>Subtotal 2</b>	\$79,406.25
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$35,732.81
			<b>Estimated Project Cost</b>	<b>\$120,000.00</b>



## Project: PM9841 New LID Project



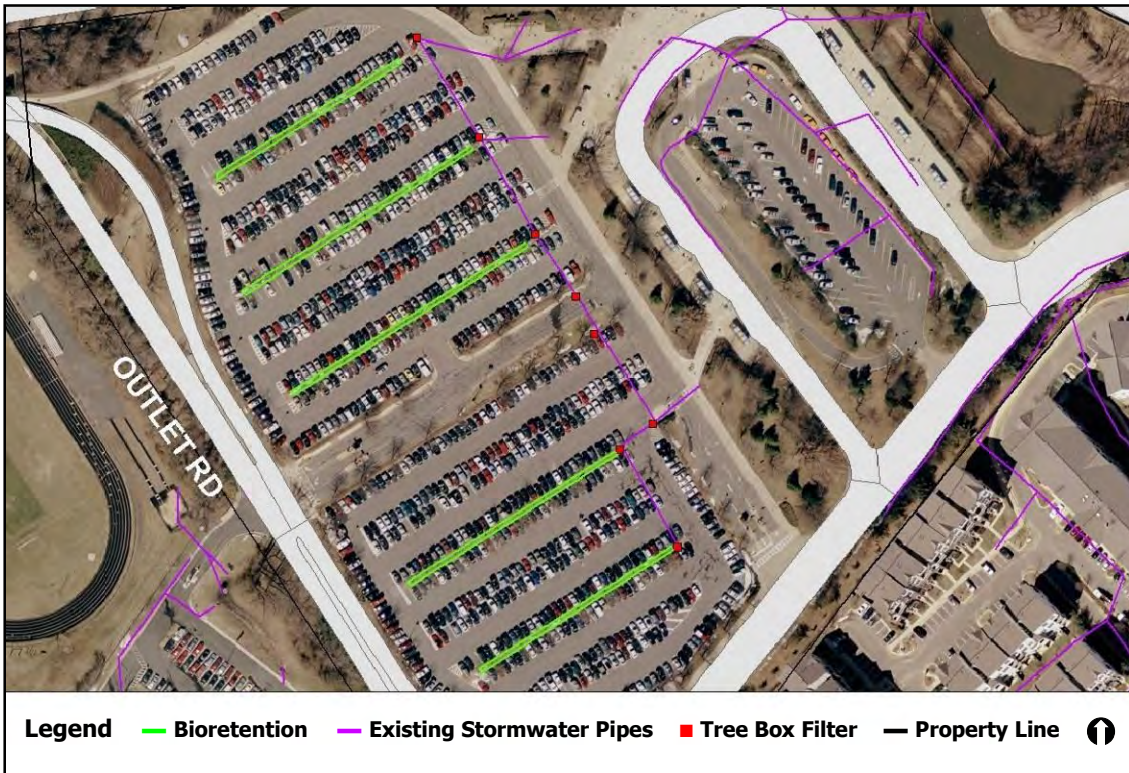
Vicinity Map

**Address:** 7048 Haycock Road  
**Location:** West Falls Church Metro Station  
**Land Owner:** Washington Metropolitan Area Transit Authority  
**PIN:** 0403 01 0084  
**Drainage Area:** 8.6 acres  
**Stream Name:** Unnamed tributary to Bridge Branch

**Description:** The site does not have existing stormwater controls. Construct bioretention strips in the grass areas in the parking lot and replace eight curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 8.4 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** BMP Retrofit Project PM9140 is also at the metro station. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Haycock Road. An easement will not be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



Site Photo: Looking northwest at the Kiss and Ride parking lot

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Tree Box Filters	8	EA	\$5,000.00	\$40,000.00
Bioretention	760	SY	\$250.00	\$190,000.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$233,000.00
			Mobilization (5%)	\$11,650.00
			<b>Subtotal 1</b>	\$244,650.00
			Contingency (25%)	\$61,162.50
			<b>Subtotal 2</b>	\$305,812.50
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$137,615.63
			<b>Estimated Project Cost</b>	<b>\$450,000.00</b>



## Project: PM9843 New LID Project



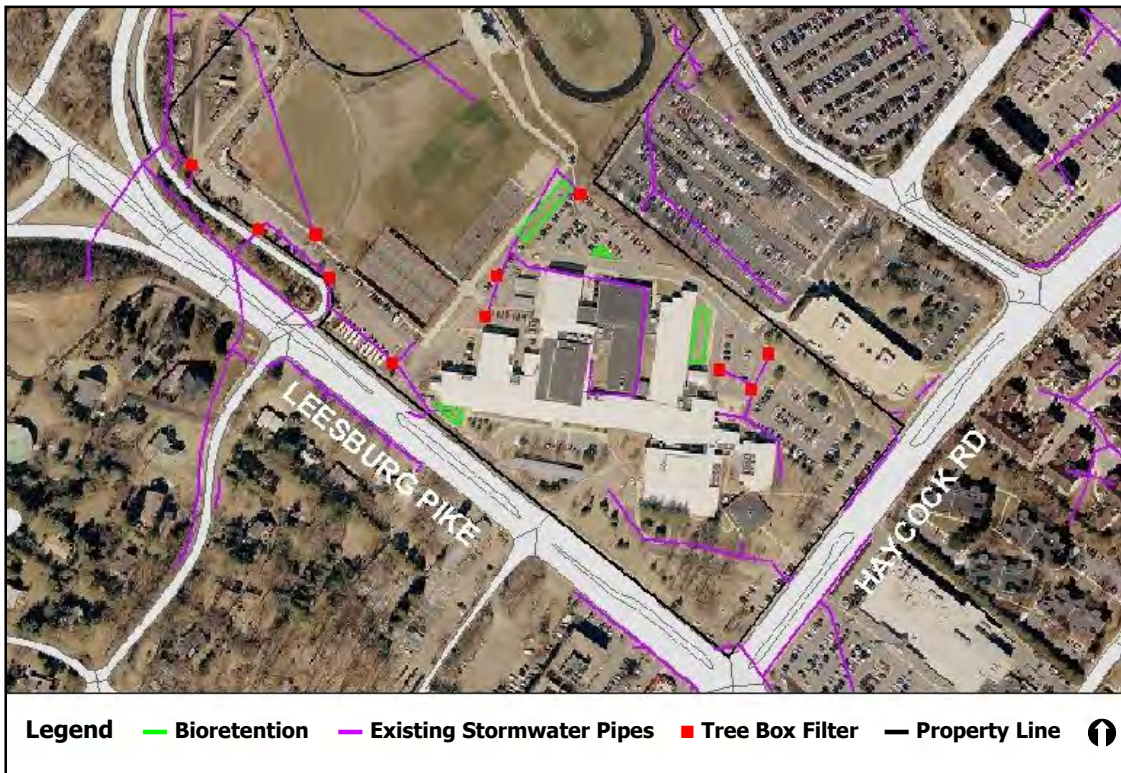
Vicinity Map

**Address:** 7124 Leesburg Pike  
**Location:** George Mason Middle High School  
**Land Owner:** Falls Church School Board  
**PIN:** 0403 01 0094  
**Drainage Area:** 12.0 acres  
**Stream Name:** Unnamed tributary to Bridge Branch

**Description:** The school does not have existing stormwater controls. Construct bioretention areas in the grass areas around the school and replace eleven curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 10.6 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** There are minimal environmental permitting requirements for this project. The project site can be accessed from Leesburg Pike. An easement will not be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



*Site Photo: Looking southwest at the school from the rear parking area*

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Tree Box Filters	11	EA	\$5,000.00	\$55,000.00
Bioretention	900	SY	\$250.00	\$225,000.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$283,000.00
			Mobilization (5%)	\$14,150.00
			<b>Subtotal 1</b>	\$297,150.00
			Contingency (25%)	\$74,287.50
			<b>Subtotal 2</b>	\$371,437.50
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$167,146.88
			<b>Estimated Project Cost</b>	<b>\$540,000.00</b>



## Project: PM9845 Neighborhood Stormwater Improvement Area



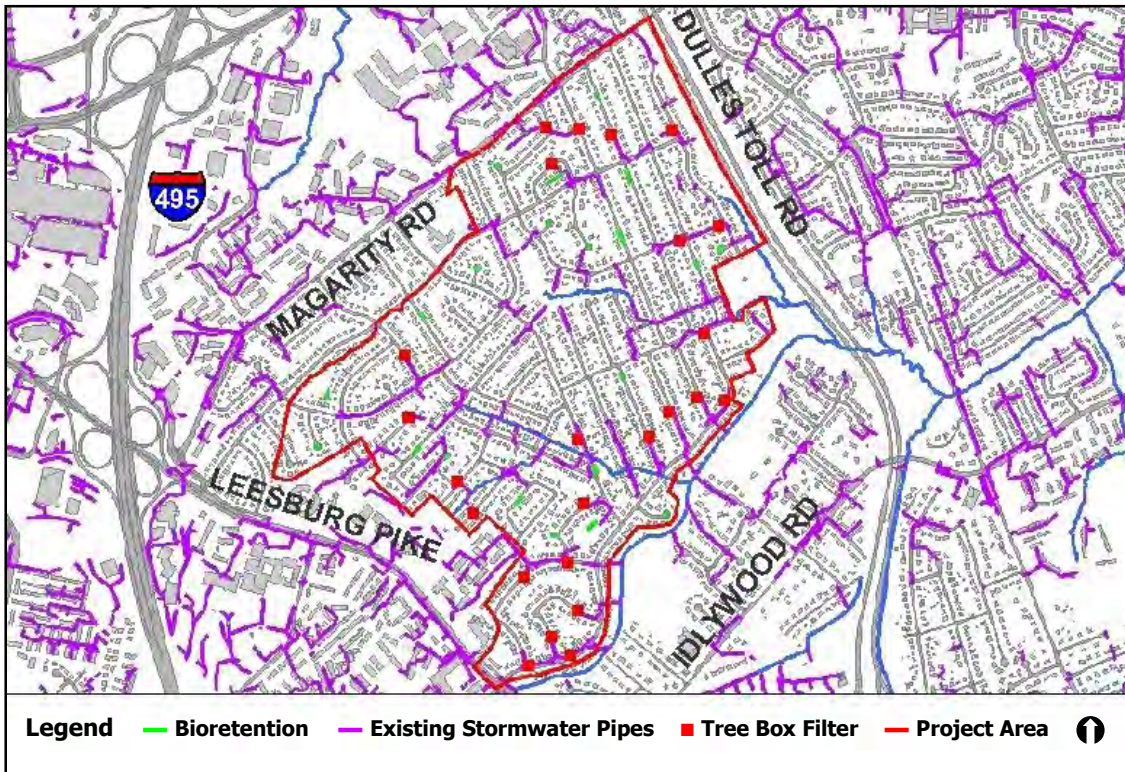
Vicinity Map

<b>Location:</b>	Pimmit Hills and Olney Park Neighborhoods
<b>Land Owner:</b>	Private Residential and VA Department of Transportation
<b>Tax Map:</b>	30-3, 39-2, 40-1, and 40-3
<b>Drainage Area:</b>	13.8 acres
<b>Stream Name:</b>	Pimmit Run

**Description:** Neither of these neighborhoods has existing stormwater controls. Add bioretention areas in the grass right of way areas and replace twenty-four curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 12.8 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** Stream Restoration Project PM9232 and Buffer Restoration Project PM9328 are also in these neighborhoods. Coordination and sequencing of these projects should be considered. Portions of these neighborhoods are in floodplains and the Chesapeake Bay Resource Protection Area which have special permitting requirements. Installation of LID measures in these areas should be avoided. Easements will not be required. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



*Site Photo: Roadside area suitable for bioretention in the Pimmit Hills Neighborhood*

**Costs:**

<b>ITEM</b>	<b>QUANTITY</b>	<b>UNITS</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Tree Box Filters	24	EA	\$5,000.00	\$120,000.00
Bioretention	810	SY	\$250.00	\$202,500.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
		Base Construction Cost		\$325,500.00
		Mobilization (5%)		\$16,275.00
		<b>Subtotal 1</b>		\$341,775.00
		Contingency (25%)		\$85,443.75
		<b>Subtotal 2</b>		\$427,218.75
Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)				\$192,248.44
		<b>Estimated Project Cost</b>		<b>\$620,000.00</b>



## Project: PM9850 New LID Project



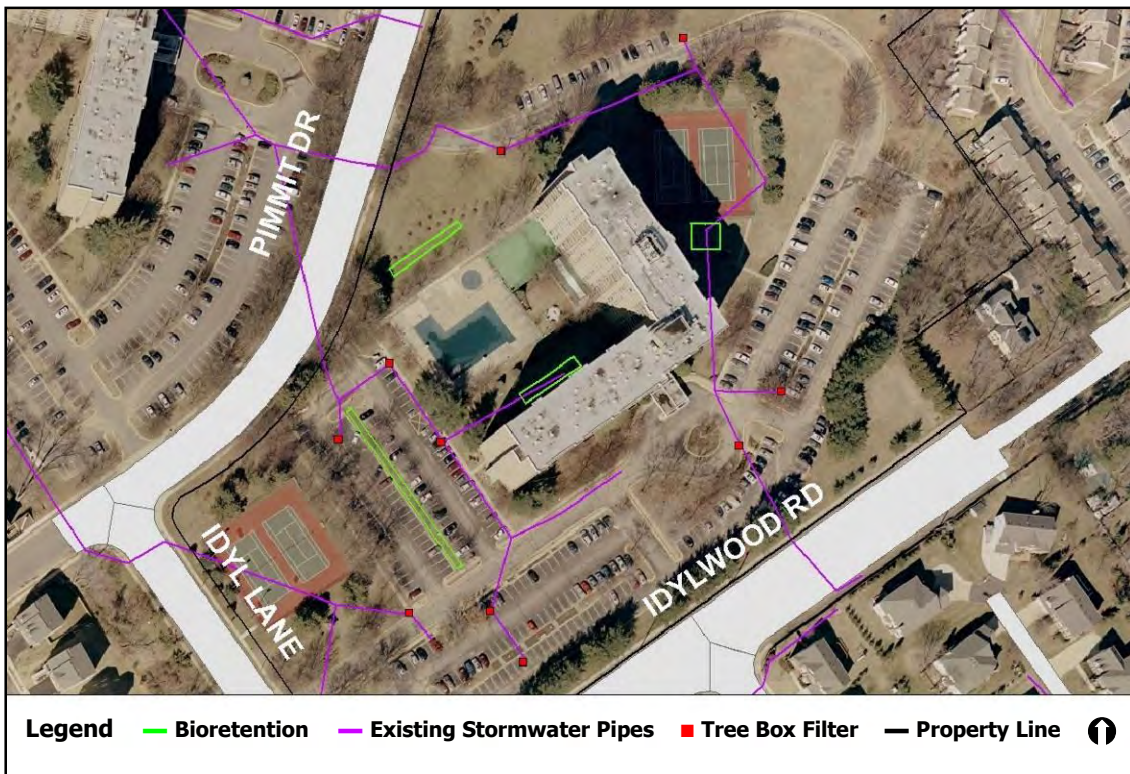
Vicinity Map

**Address:** 2311 Pimmit Drive  
**Location:** Idylwood Towers Condominiums  
**Land Owner:** Residential Development  
**PIN:** 0403 27010101  
**Drainage Area:** 6.9 acres  
**Stream Name:** Unnamed tributary to Pimmit Run

**Description:** Construct bioretention areas and a bioswale in the grass areas around the condos and replace ten curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 5.8 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** New LID Project PM9851 is adjacent to this project. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Pimmit Drive. An easement will be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



*Site Photo: Looking northeast from the rear parking lot*

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Tree Box Filters	10	EA	\$5,000.00	\$50,000.00
Bioretention	400	SY	\$250.00	\$100,000.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$153,000.00
			Mobilization (5%)	\$7,650.00
			<b>Subtotal 1</b>	\$160,650.00
			Contingency (25%)	\$40,162.50
			<b>Subtotal 2</b>	\$200,812.50
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$90,365.63
			<b>Estimated Project Cost</b>	<b>\$300,000.00</b>



## Project: PM9852 New LID Project



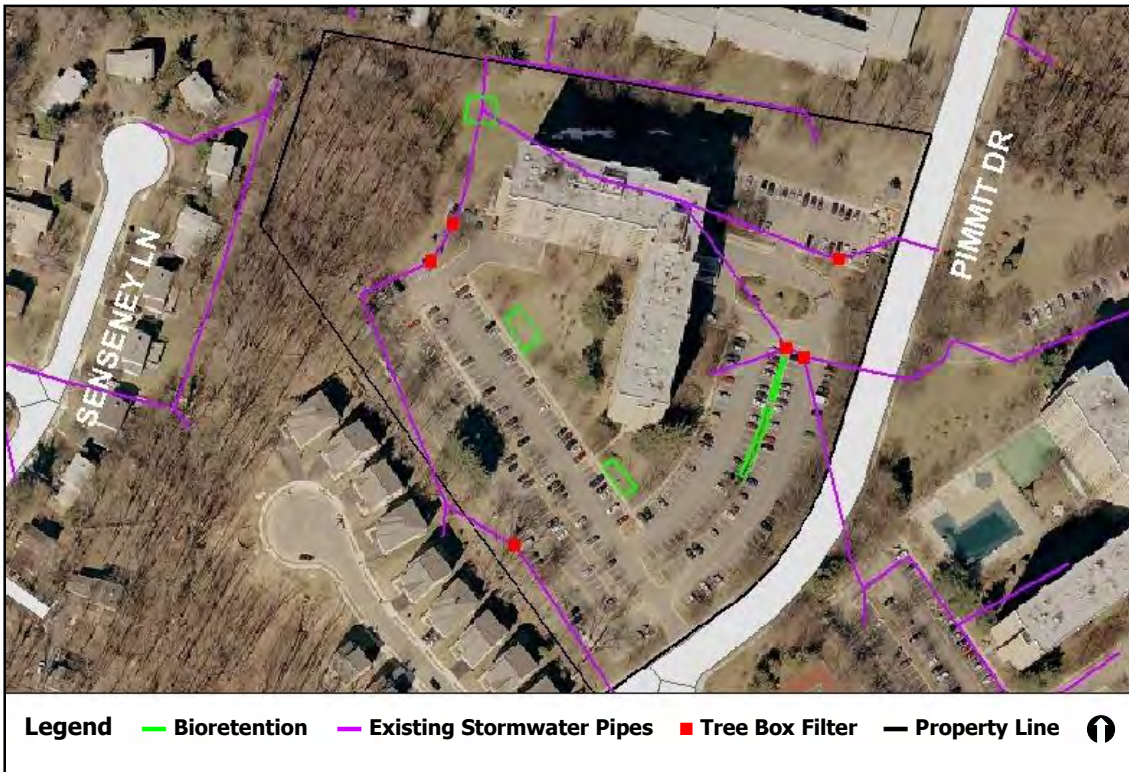
*Vicinity Map*

**Address:** 2300 Pimmit Drive  
**Location:** Idylwood Towers Condominiums  
**Land Owner:** Residential Development  
**PIN:** 0403 27020101  
**Drainage Area:** 5.1 acres  
**Stream Name:** Unnamed tributary to Pimmit Run

**Description:** Construct bioretention areas and bioswales in the grass areas around the condos and replace six curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 4.5 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** New LID Project PM9851 is adjacent to this project. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Pimmit Drive. An easement will be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



*Project Area Map: Conceptual plan showing potential locations of LID measures*



Site Photo: Looking west from the side parking lot

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Tree Box Filters	6	EA	\$5,000.00	\$30,000.00
Bioretention	350	SY	\$250.00	\$87,500.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$120,500.00
			Mobilization (5%)	\$6,025.00
			<b>Subtotal 1</b>	\$126,525.00
			Contingency (25%)	\$31,631.25
			<b>Subtotal 2</b>	\$158,156.25
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$71,170.31
			<b>Estimated Project Cost</b>	<b>\$230,000.00</b>



## Project: PM9856 New LID Project



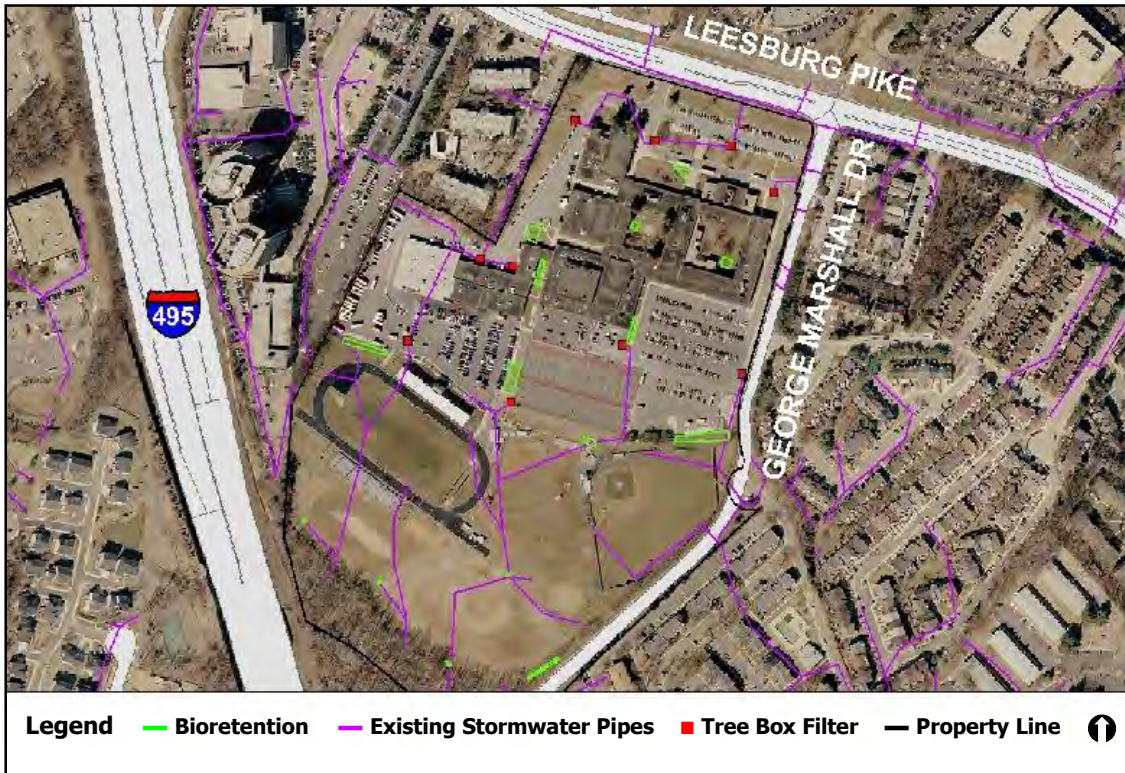
Vicinity Map

**Address:** 7731 Leesburg Pike  
**Location:** George C Marshall High School  
**Land Owner:** Fairfax County Public Schools  
**PIN:** 0392 01 0048  
**Drainage Area:** 16.5 acres  
**Stream Name:** Unnamed tributary to Pimmit Run

**Description:** The school does not have existing stormwater controls. Construct bioretention areas in the grass areas around the school and yard inlets and replace ten curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 16.2 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** New BMP Project PM9155 is also at the school. Coordination and sequencing of these projects should be considered. Portions of this project site are in the Chesapeake Bay Resource Protection Area which has special permitting requirements. Installation of LID measures in these areas should be avoided. The project site can be accessed from Leesburg Pike. An easement will not be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



Site Photo: Looking southwest from the front parking lot

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Tree Box Filters	10	EA	\$5,000.00	\$50,000.00
Bioretention	1530	SY	\$250.00	\$382,500.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$435,500.00
			Mobilization (5%)	\$21,775.00
			<b>Subtotal 1</b>	\$457,275.00
			Contingency (25%)	\$114,318.75
			<b>Subtotal 2</b>	\$571,593.75
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$257,217.19
			<b>Estimated Project Cost</b>	<b>\$830,000.00</b>



## Project: PM9857 New LID Project



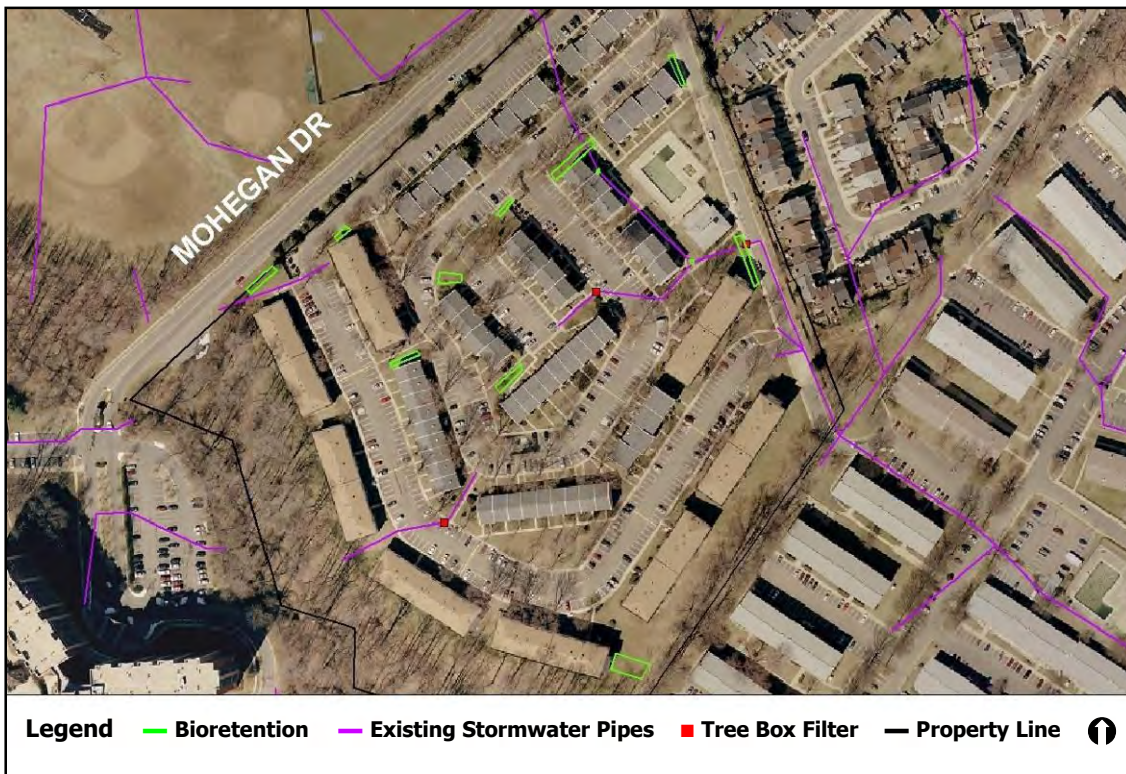
Vicinity Map

**Address:** 2250 Mohegan Drive  
**Location:** Tysons Glen Apartments  
**Land Owner:** Residential Development  
**Tax Map:** 39-2 and 39-4  
**Drainage Area:** 7.2 acres  
**Stream Name:** Unnamed tributary to Pimmit Run

**Description:** The site does not have existing stormwater controls. Construct bioretention areas in the grass areas around the site and replace three curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 6.7 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** Portions of this project site are in the Chesapeake Bay Resource Protection Area which has special permitting requirements. Installation of LID measures in these areas should be avoided. The project site can be accessed from Mohegan Drive. An easement will be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



Site Photo: Looking northeast from the rear parking lot in the complex

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Tree Box Filters	3	EA	\$5,000.00	\$15,000.00
Bioretention	670	SY	\$250.00	\$167,500.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$185,500.00
			Mobilization (5%)	\$9,275.00
			<b>Subtotal 1</b>	\$194,775.00
			Contingency (25%)	\$48,693.75
			<b>Subtotal 2</b>	\$243,468.75
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$109,560.94
			<b>Estimated Project Cost</b>	<b>\$360,000.00</b>



## Project: PM9859 New LID Project



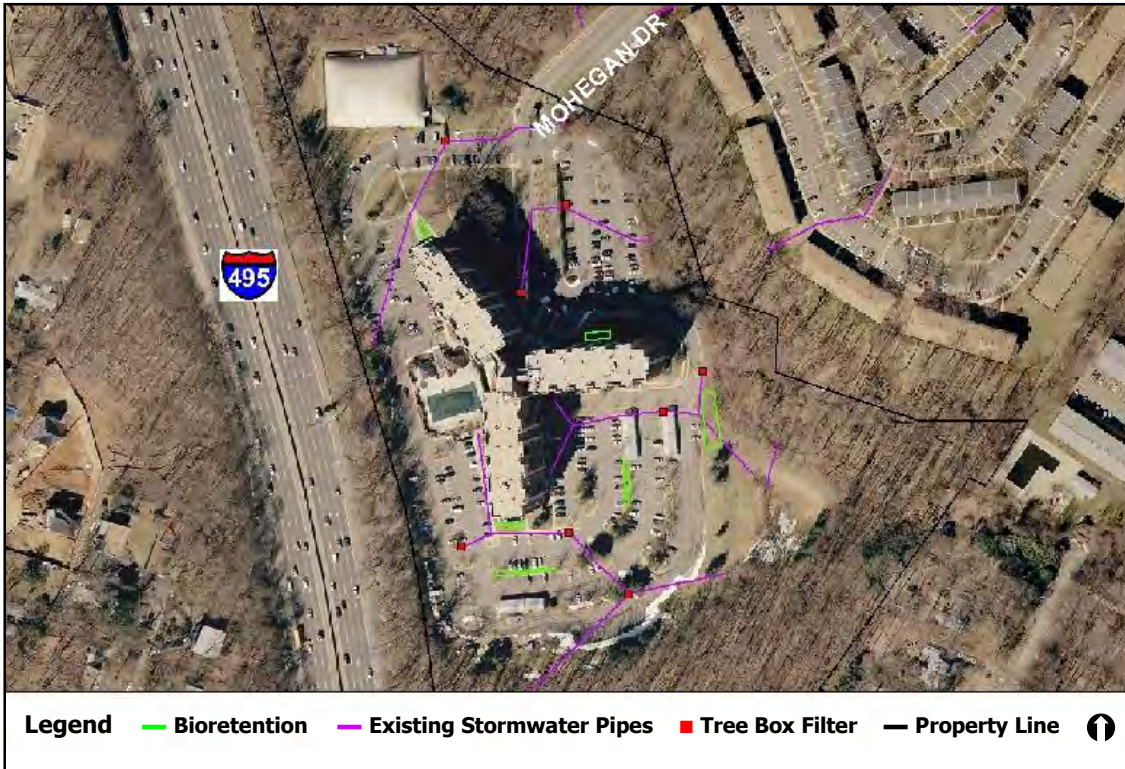
Vicinity Map

**Address:** 2230 George C Marshall Drive  
**Location:** The Renaissance Apartments  
**Land Owner:** Residential Development  
**PIN:** 0394 01 0178A  
**Drainage Area:** 6.2 acres  
**Stream Name:** Unnamed tributary to Pimmit Run

**Description:** Construct bioretention areas and a bioswale in the grass areas around the apartments and replace eight curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 6.1 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** BMP Retrofit Project PM9158 is also at this apartment complex. Coordination and sequencing of these projects should be considered. Portions of this project site are in the Chesapeake Bay Resource Protection Area which has special permitting requirements. Installation of LID measures in these areas should be avoided. The project site can be accessed from George C Marshall Drive. An easement will be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



Site Photo: Looking west towards the apartments

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Tree Box Filters	8	EA	\$5,000.00	\$40,000.00
Bioretention	460	SY	\$250.00	\$115,000.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$158,000.00
			Mobilization (5%)	\$7,900.00
			<b>Subtotal 1</b>	\$165,900.00
			Contingency (25%)	\$41,475.00
			<b>Subtotal 2</b>	\$207,375.00
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$93,318.75
			<b>Estimated Project Cost</b>	<b>\$310,000.00</b>



## Project: PM9862 New LID Project



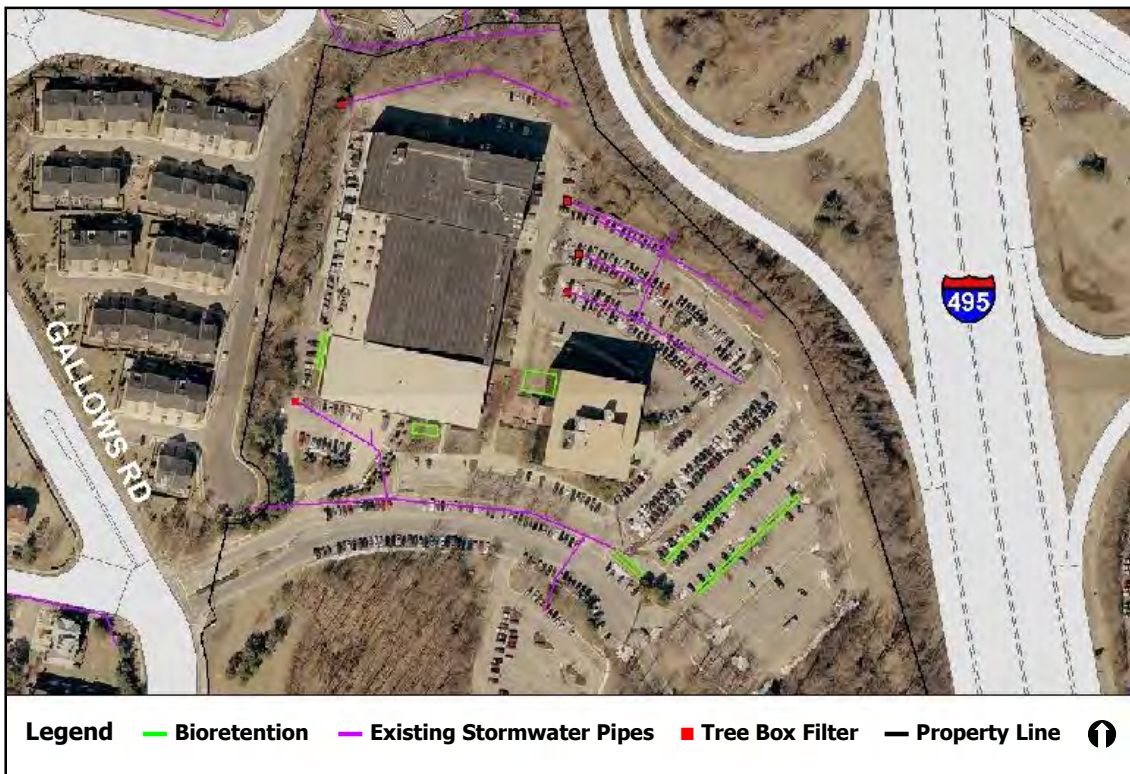
Vicinity Map

**Address:** 7990 Science Application Court  
**Location:** Tysons Corner  
**Land Owner:** Commercial Development  
**PIN:** 0392 01 0013  
**Drainage Area:** 6.8 acres  
**Stream Name:** Unnamed tributary to Pimmit Run

**Description:** Construct bioretention areas and a bioswale in the grass areas around the site and replace four curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 6.7 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** BMP Retrofit Project PM9160 is also in this development. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Boeing Court. An easement will be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures



*Site Photo: Looking northwest towards the office buildings*

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Tree Box Filters	4	EA	\$5,000.00	\$20,000.00
Bioretention	670	SY	\$250.00	\$167,500.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$190,500.00
			Mobilization (5%)	\$9,525.00
			<b>Subtotal 1</b>	\$200,025.00
			Contingency (25%)	\$50,006.25
			<b>Subtotal 2</b>	\$250,031.25
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$112,514.06
			<b>Estimated Project Cost</b>	<b>\$370,000.00</b>



## Project: PM9867 New LID Project



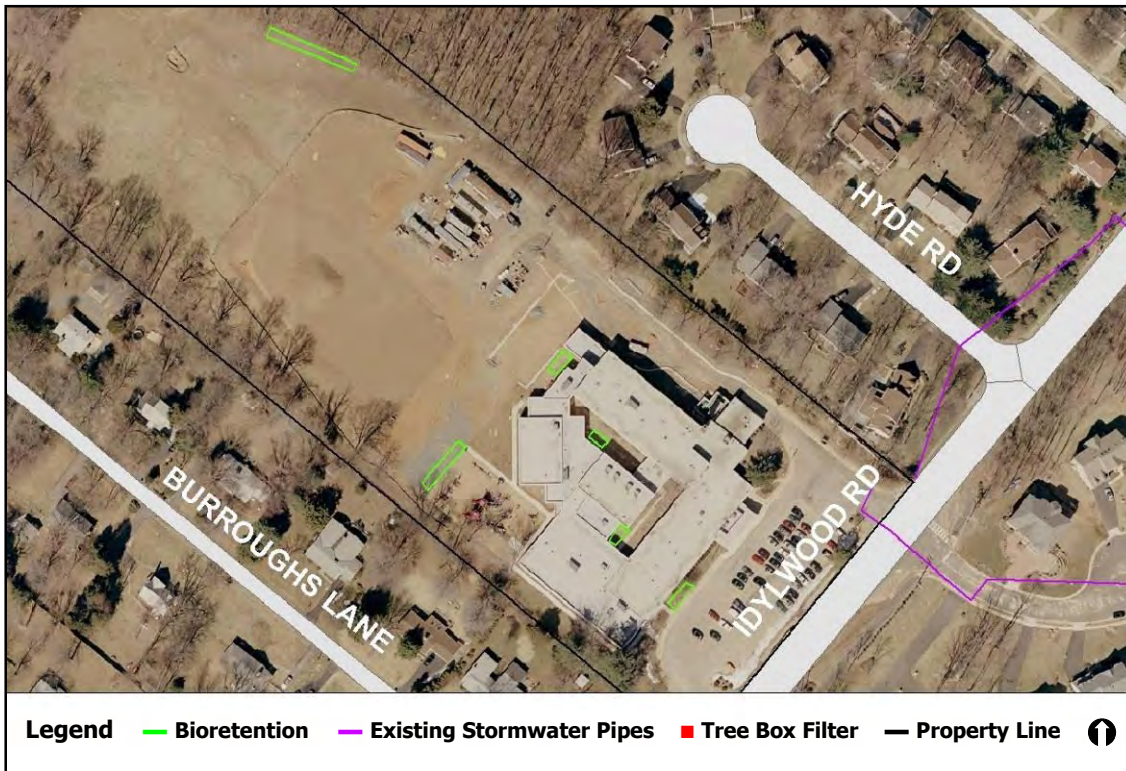
Vicinity Map

**Address:** 7230 Idylwood Road  
**Location:** Lemon Road School  
**Land Owner:** Fairfax County Public Schools  
**PIN:** 0401 01 0031  
**Drainage Area:** 3.0 acres  
**Stream Name:** Pimmit Run

**Description:** The school does not have existing stormwater controls. Construct bioretention areas and a bioswale in the grass areas around the school.

**Potential Benefits:** An estimated 2.8 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** Stream Restoration Project PM9232 is adjacent to this project site. Coordination and sequencing of these projects should be considered. Portions of this site are in the Chesapeake Bay Resource Protection Area which has special permitting requirements. Installation of LID measures in these areas should be avoided. The project site can be accessed from Idylwood Road. An easement will not be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures

**Costs:**

<b>ITEM</b>	<b>QUANTITY</b>	<b>UNITS</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Bioretention	310	SY	\$250.00	\$77,500.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$80,500.00
			Mobilization (5%)	\$4,025.00
			<b>Subtotal 1</b>	<b>\$84,525.00</b>
			Contingency (25%)	\$21,131.25
			<b>Subtotal 2</b>	<b>\$105,656.25</b>
Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)				\$47,545.31
			<b>Estimated Project Cost</b>	<b>\$160,000.00</b>



## Project: PM9871 New LID Project



Vicinity Map

**Address:** 2328 North Oak Street  
**Location:** Mount Daniel Elementary School  
**Land Owner:** Falls Church School Board  
**PIN:** 0404 01 0022  
**Drainage Area:** 2.3 acres  
**Stream Name:** Unnamed tributary to Bridge Branch

**Description:** The school does not have existing stormwater controls. Construct a bioretention area and a bioswale in the grass areas around the school.

**Potential Benefits:** An estimated 2.3 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** There are minimal environmental permitting requirements for this project. The project site can be accessed from North Oak Street. An easement will not be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures

**Costs:**

<b>ITEM</b>	<b>QUANTITY</b>	<b>UNITS</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Bioretention	250	SY	\$250.00	\$62,500.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$65,500.00
			Mobilization (5%)	\$3,275.00
			<b>Subtotal 1</b>	<b>\$68,775.00</b>
			Contingency (25%)	\$17,193.75
			<b>Subtotal 2</b>	<b>\$85,968.75</b>
Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)				\$38,685.94
			<b>Estimated Project Cost</b>	<b>\$130,000.00</b>



## Project: PM9872 New LID Project



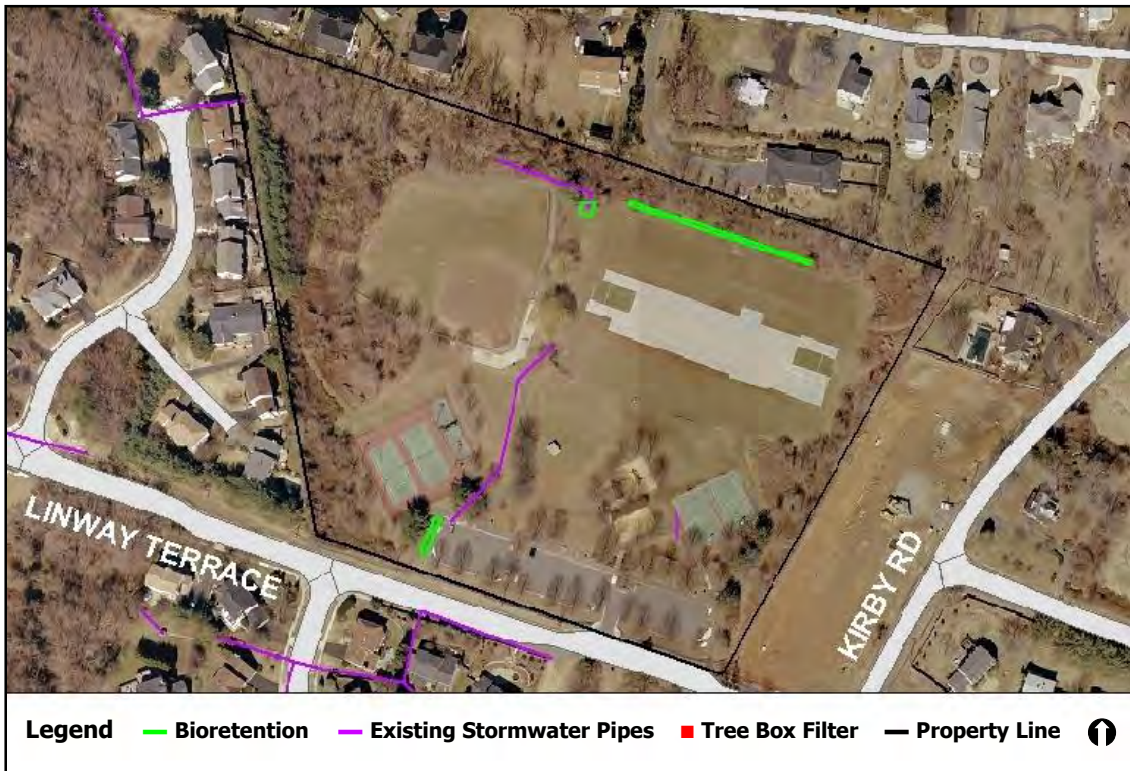
Vicinity Map

**Address:** 6246 Linway Terrace  
**Location:** Linway Terrace Park  
**Land Owner:** Fairfax County Park Authority  
**PIN:** 0313 01 0152A  
**Drainage Area:** 18.5 acres  
**Stream Name:** Bryan Branch

**Description:** The park site does not have existing stormwater controls. Construct bioretention areas around the park and convert the existing grass swale adjacent to the soccer field into a bioswale.

**Potential Benefits:** An estimated 3.4 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** This project is adjacent to BMP Retrofit Project PM9175 and Stream Restoration Project PM9209. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Linway Terrace. An easement will not be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



Project Area Map: Conceptual plan showing potential locations of LID measures

**Costs:**

<b>ITEM</b>	<b>QUANTITY</b>	<b>UNITS</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Bioretention	270	SY	\$250.00	\$67,500.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$70,500.00
			Mobilization (5%)	\$3,525.00
			<b>Subtotal 1</b>	\$74,025.00
			Contingency (25%)	\$18,506.25
			<b>Subtotal 2</b>	\$92,531.25
Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)				\$41,639.06
			<b>Estimated Project Cost</b>	<b>\$140,000.00</b>



## Project: PM9873 New LID Project



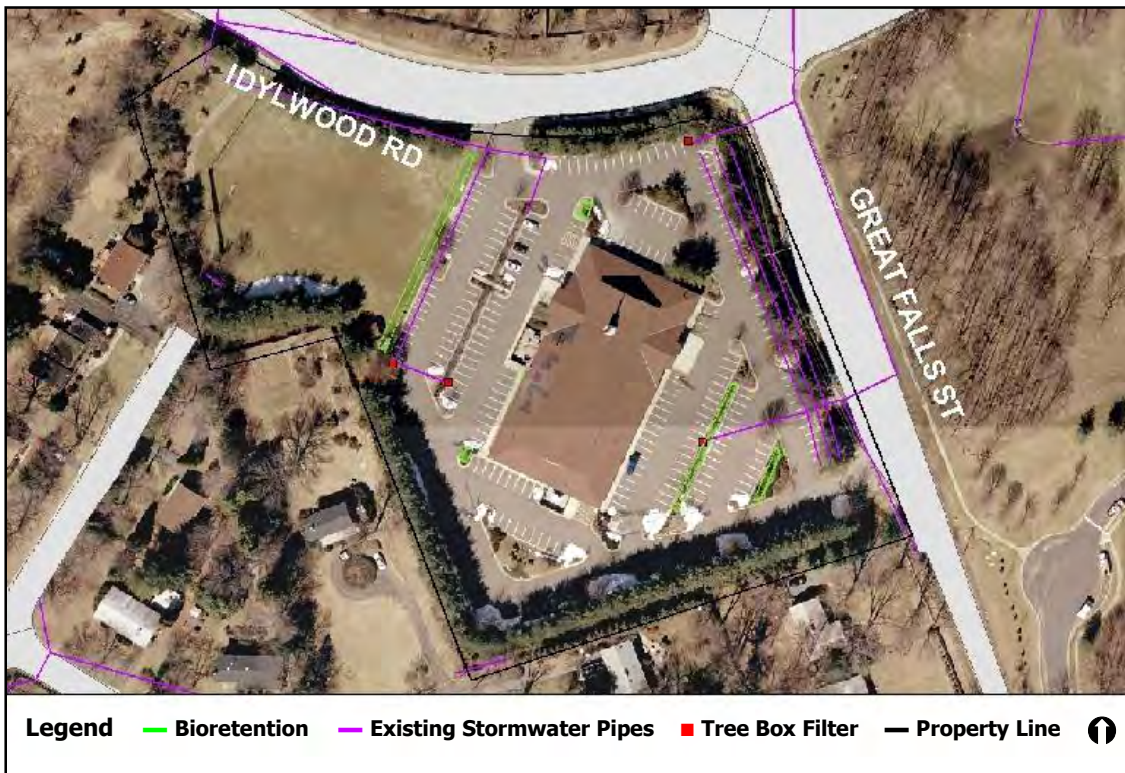
*Vicinity Map*

**Address:** 2034 Great Falls Street  
**Location:** Church of Jesus Christ of Latter Day Saints  
**Land Owner:** Private Organization  
**PIN:** 0402 01 0007A and 0008  
**Drainage Area:** 3.5 acres  
**Stream Name:** Unnamed tributary to Pimmit Run

**Description:** The church site has an existing dry detention pond that provides water quantity control. Construct bioretention areas around the church and parking lots and replace four curb drop inlets with tree box filters.

**Potential Benefits:** An estimated 3.4 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** This project is adjacent to BMP Retrofit Project PM9133 and upstream of Stream Restoration Project PM9225. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Idylwood Road. An easement will not be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



*Project Area Map: Conceptual plan showing potential locations of LID measures*

**Costs:**

<b>ITEM</b>	<b>QUANTITY</b>	<b>UNITS</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Tree Box Filters	4	EA	\$5,000.00	\$20,000.00
Bioretention	290	SY	\$250.00	\$72,500.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$95,500.00
			Mobilization (5%)	\$4,775.00
			<b>Subtotal 1</b>	\$100,275.00
			Contingency (25%)	\$25,068.75
			<b>Subtotal 2</b>	\$125,343.75
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$56,404.69
			<b>Estimated Project Cost</b>	<b>\$190,000.00</b>



## Project: PM9874 New LID Project



Vicinity Map

**Address:** 2036 Westmoreland Street  
**Location:** Chesterbrook Presbyterian Church  
**Land Owner:** Private Organization  
**PIN:** 0402 01 0026A  
**Drainage Area:** 1.3 acres  
**Stream Name:** Burke's Spring Branch

**Description:** The church does not have existing stormwater controls. Construct bioretention areas in the parking lot of the church.

**Potential Benefits:** An estimated 1.1 lbs/yr of phosphorus will be removed. This project will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** This project is adjacent to New LID Project PM9829. Coordination and sequencing of these projects should be considered. There are minimal environmental permitting requirements for this project. The project site can be accessed from Westmoreland Street. An easement will be required. There are no significant construction issues found on this site. Impacts to trees will be minimized.



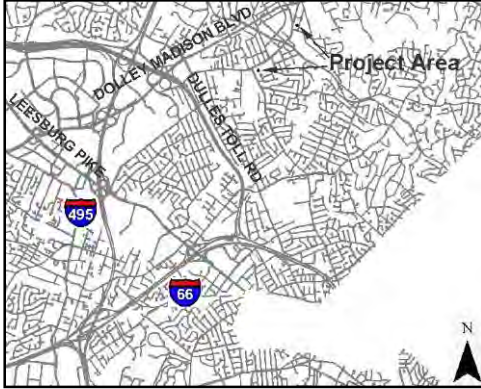
Project Area Map: Conceptual plan showing potential locations of LID measures

**Costs:**

<b>ITEM</b>	<b>QUANTITY</b>	<b>UNITS</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Bioretention	110	SY	\$250.00	\$27,500.00
Erosion and Sediment Control	1	LS	\$3,000.00	\$3,000.00
			Base Construction Cost	\$30,500.00
			Mobilization (5%)	\$1,525.00
			<b>Subtotal 1</b>	\$32,025.00
			Contingency (25%)	\$8,006.25
			<b>Subtotal 2</b>	\$40,031.25
Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)				\$18,014.06
			<b>Estimated Project Cost</b>	<b>\$60,000.00</b>



## Project: PM9877 New LID Project



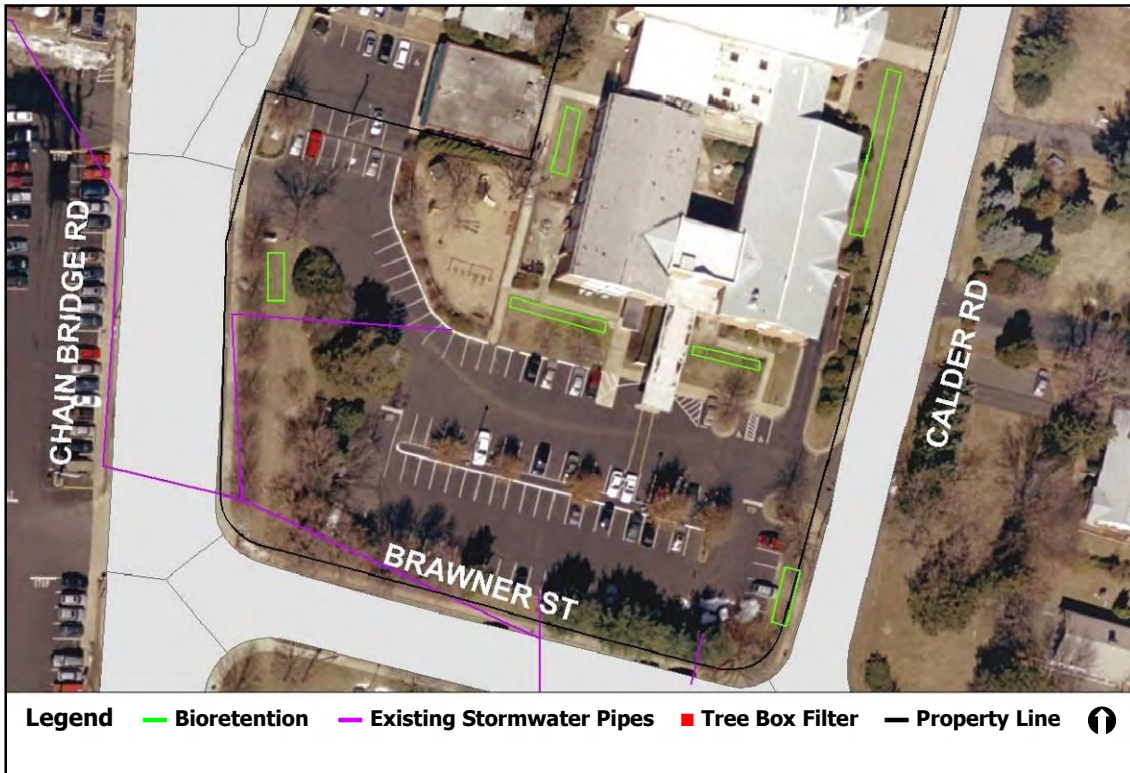
Vicinity Map

**Address:** 1367 and 1545 Chain Bridge Road  
**Location:** McLean Baptist Church and Redeemer Lutheran Church  
**Land Owner:** Private Organizations  
**PIN:** 0302 13 0011, 0012, 0013 and 0304 01 0012  
**Drainage Area:** 1.9 acres and 4.8 acres  
**Stream Name:** Unnamed tributaries to Saucy Branch

**Description:** Neither of the churches has existing stormwater controls. Construct bioretention areas in the grass areas around both churches.

**Potential Benefits:** An estimated 1.9 lbs/yr and 2.3 lbs/yr of phosphorus will be removed from each site. These projects will also provide stormwater runoff flow reduction for small storm events.

**Project Design Considerations:** There are minimal environmental permitting requirements for both of these projects. The project sites can be accessed from Chain Bridge Road. An easement will be required. There are no significant construction issues found on these sites. Impacts to trees will be minimized.



Project Area Map: Conceptual plan of 1367 Chain Bridge Road showing potential locations of LID measures



*Project Area Map: Conceptual plan of 1545 Chain Bridge Road showing potential locations of LID measures*

**Costs:**

ITEM	QUANTITY	UNITS	UNIT COST	TOTAL
Bioretention	440	SY	\$250.00	\$110,000.00
Erosion and Sediment Control	1	LS	\$6,000.00	\$6,000.00
			Base Construction Cost	\$116,000.00
			Mobilization (5%)	\$5,800.00
			<b>Subtotal 1</b>	\$121,800.00
			Contingency (25%)	\$30,450.00
			<b>Subtotal 2</b>	\$152,250.00
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$68,512.50
			<b>Estimated Project Cost</b>	<b>\$230,000.00</b>



## Project: PM9978 Neighborhood Stormwater Improvement Area



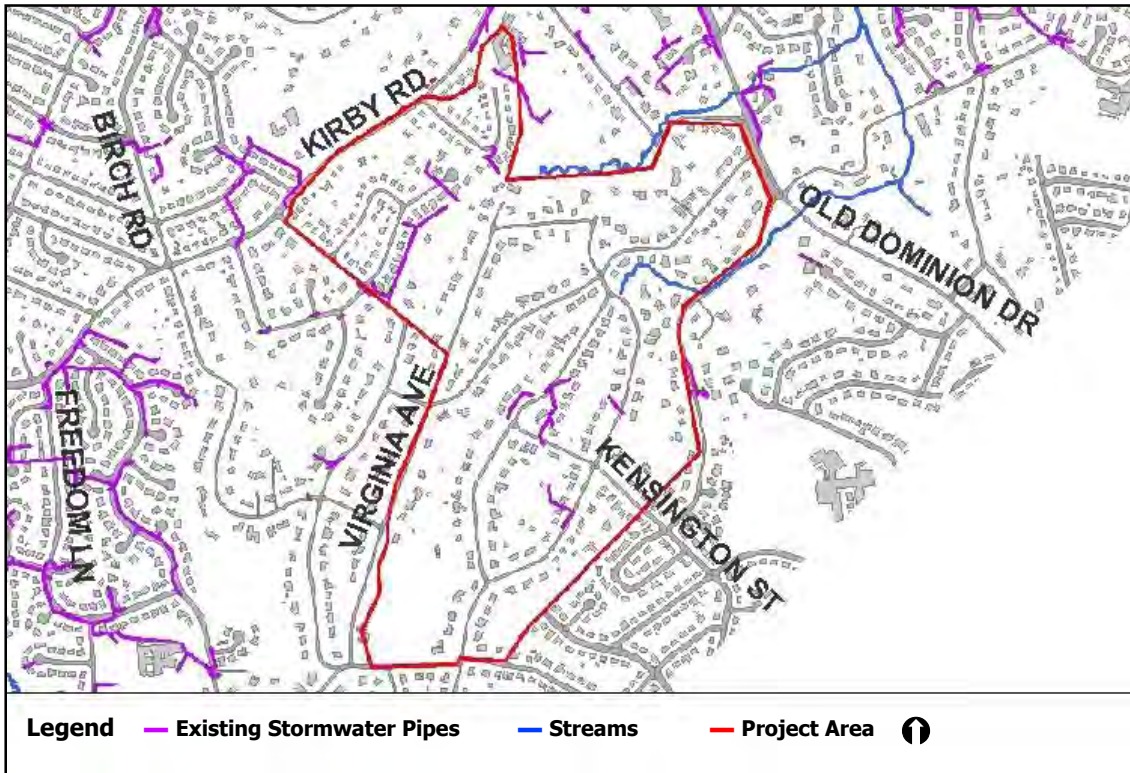
Vicinity Map

<b>Location:</b>	Franklin Park and Chesterbrook Neighborhoods
<b>Land Owner:</b>	Private Residential and VA Department of Transportation
<b>Tax Map:</b>	31-3 and 41-1
<b>Stream Name:</b>	Unnamed tributaries to Little Pimmit Run

**Description:** These neighborhoods have had a variety of drainage problems over the years ranging from stream erosion to house flooding. This project will study the existing storm drain system to determine flooding causes. The project will also identify locations where improvements are needed and construct the recommended improvements.

**Potential Benefits:** This project will help to reduce stream erosion as well as yard, road, and house flooding.

**Project Design Considerations:** Stream Restoration Project PM9203 and Buffer Restoration Project PM9301 are also in the project area. Coordination and sequencing of the projects should be considered. Portions of the neighborhood are in floodplains and the Chesapeake Bay Resource Protection Area which have special permitting requirements. Easements may be required.



Project Area Map

**Costs:**

<b>ITEM</b>	<b>QUANTITY</b>	<b>UNITS</b>	<b>UNIT COST</b>	<b>TOTAL</b>
Storm Drain Study	1	LS	\$100,000.00	\$100,000.00
New Storm Pipe	1	LS	\$50,000.00	\$50,000.00
Landscaping	1	LS	\$6,000.00	\$6,000.00
New pavement	1,500	SY	\$45.00	\$67,500.00
Remove Pavement	1,500	SY	\$8.00	\$12,000.00
			Base Construction Cost	\$235,500.00
			Mobilization (5%)	\$11,775.00
			<b>Subtotal 1</b>	<b>\$247,275.00</b>
			Contingency (25%)	\$61,819.00
			<b>Subtotal 2</b>	<b>\$309,094.00</b>
			Engineering Design, Surveys, Land Acquisition, Utility Relocations, and Permits (45%)	\$139,092.00
			<b>Estimated Project Cost</b>	<b>\$450,000.00</b>