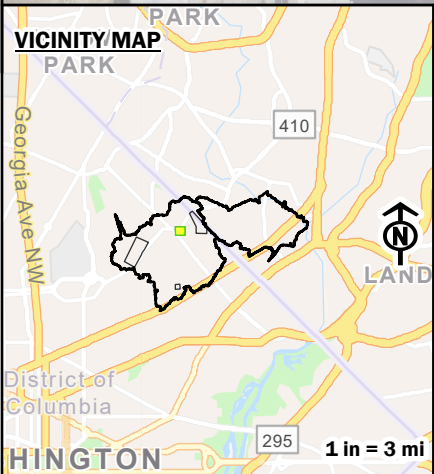
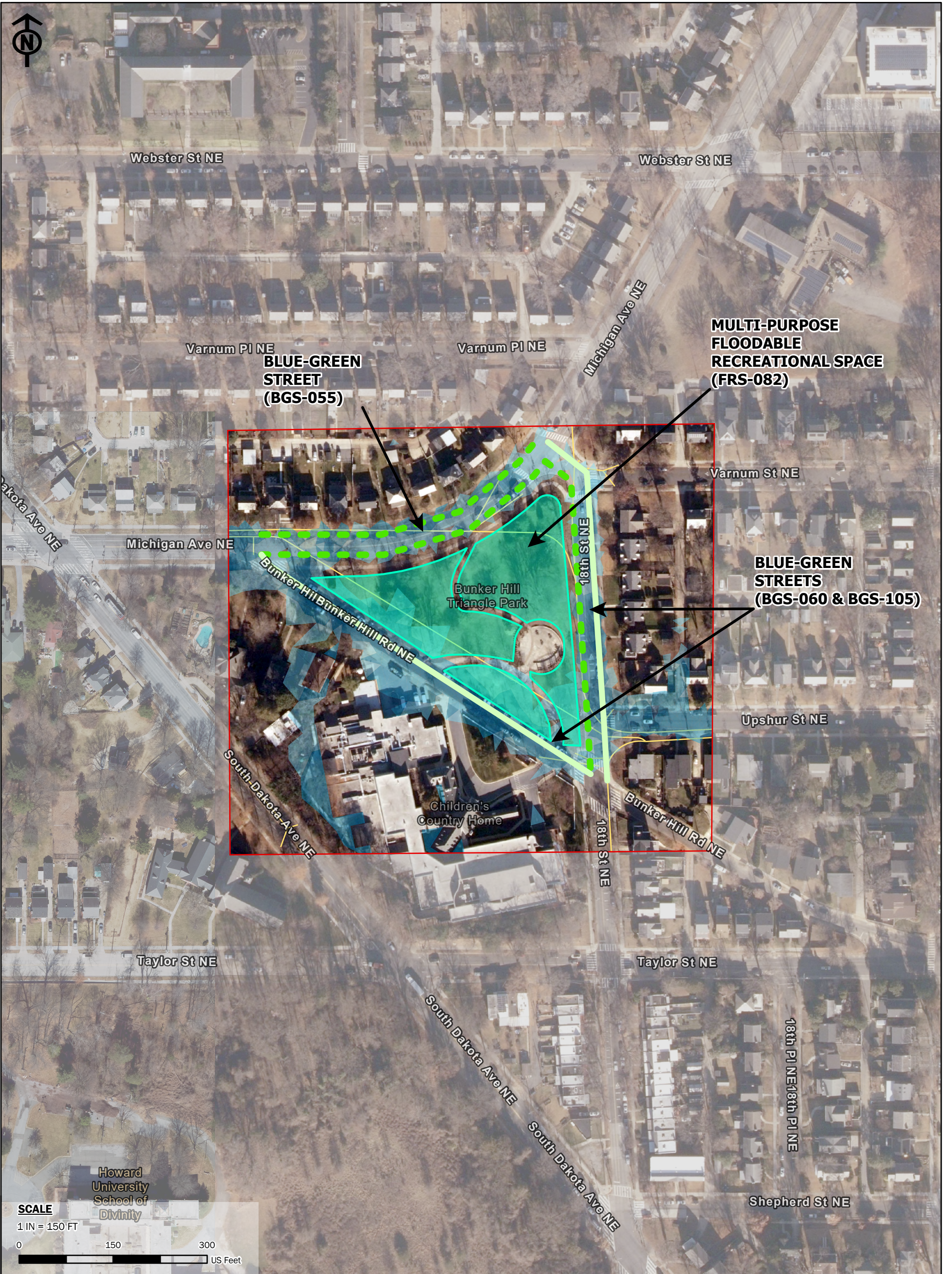


# APPENDIX F. CONCEPT PLANS FOR EACH WATERSHED



**POTENTIAL CONCEPT AREAS**

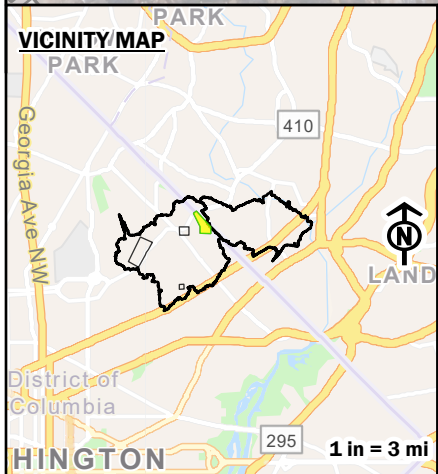
**ARUNDEL CANAL FOCUS AREA 1: CONCEPT AREA 1**

**JUNE 2025**

**LEGEND**

- Concept Area Boundary
- Stormwater Conveyance
- Blue-Green Streets**
  - - - Sidewalk Only
  - Sidewalk and Parking Lane
- Multi-Purpose Floodable Recreational Spaces
- Blue Spots or IFM\***
  - 0.5 - 1 ft
  - 1 - 3 ft
  - 3+ ft

\*IFM Data is exclusive to the District of Columbia and all output is preliminary (provided by D.C. Water).



**POTENTIAL CONCEPT AREAS**

**ARUNDEL CANAL FOCUS AREA 1:  
CONCEPT AREA 2**

**JUNE 2025**

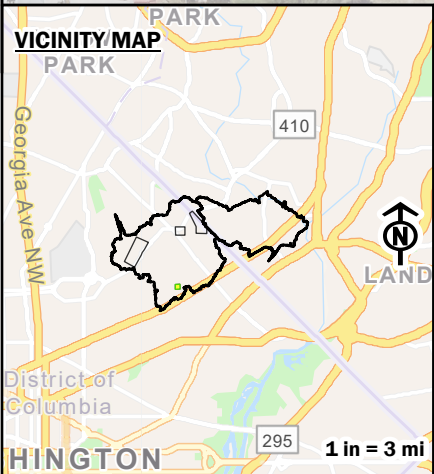
**LEGEND**

- Subwatershed Boundary
- Focus Area Boundary
- Concept Area Boundary
- Multi-Purpose Floodable Recreational Spaces
- Green Stormwater Infrastructure
- Stormwater Conveyance
- Blue-Green Streets
  - Parking Lane Only
  - Sidewalk Only
  - Sidewalk and Parking Lane
- Blue Spots or IFM\*
  - 0.5 - 1 ft
  - 1 - 3 ft
  - 3+ ft

\*IFM Data is exclusive to the District of Columbia and all output is preliminary (provided by D.C. Water).



**MULTI-PURPOSE  
FLOODABLE  
RECREATIONAL SPACE  
(FRS-076 & FRS-075)**



**POTENTIAL CONCEPT AREAS**

**ARUNDEL CANAL FOCUS AREA 1:  
CONCEPT AREA 3**

**JUNE 2025**

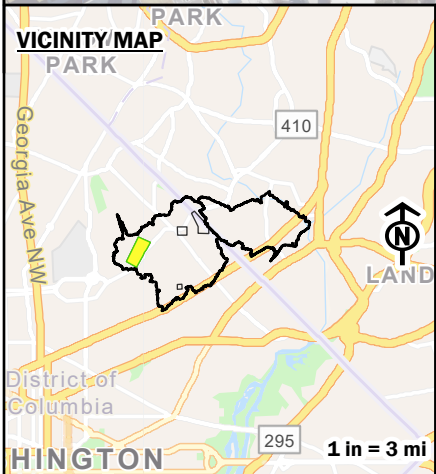
**LEGEND**

- Concept Area Boundary
- Multi-Purpose Floodable Recreational Spaces
- Stormwater Conveyance

**Blue Spots or IFM\***

- 0.5 - 1 ft
- 1 - 3 ft
- 3+ ft

\*IFM Data is exclusive to the District of Columbia and all output is preliminary (provided by D.C. Water).



**POTENTIAL CONCEPT AREAS**

**ARUNDEL CANAL FOCUS AREA 1:  
CONCEPT AREA 4**

**JUNE 2025**

**LEGEND**

- Subwatershed Boundary
- Focus Area Boundary
- Concept Area Boundary
- Green Stormwater Infrastructure
- Tree Planting
- Stormwater Conveyance
- Blue-Green Streets**
  - Sidewalk and Parking Lane
- Multi-Purpose Floodable Recreational Spaces
- Blue Spots or IFM\***
  - 0.5 - 1 ft
  - 1 - 3 ft
  - 3+ ft

\*IFM Data is exclusive to the District of Columbia and all output is preliminary (provided by D.C. Water).

## Arundel Canal

Concept Area 1											
Type of Practice	Quantity (ea.)	Project ID	Name	Project Area (ac)	Project Area (sf)	Length (lf)	Contributing DA (ac)	Volume (cf)	Total Area (ac)	Total Length (lf)	Estimated Construction Cost of Practice
Multi-Purpose Floodable Recreational Spaces	1	AC_01_FRS_082	Multi-Purpose Floodable Recreational Space at Bunker Hill Triangle Park	1.47	64118	--	--	170981.92	1.47	--	\$ 1,139,879.5
Blue-Green Streets	3	AC_01_BGS_055	Michigan Ave NE Blue-Green Street	--	--	500.10	--	23011.13	--	1724.90	\$ 744,148.80
		AC_01_BGS_105	Bunker Hill Rd Blue-Green Street	--	--	665.00	--	32601.05			\$ 853,860.00
		AC_01_BGS_060	18th St NE Blue-Green Street	--	--	559.80	--	40322.77			\$ 1,135,274.40

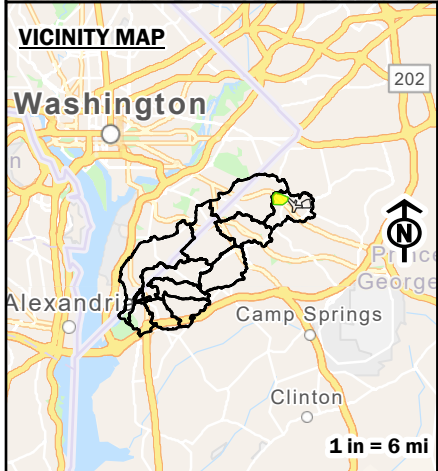
Concept Area 2											
Type of Practice	Quantity (ea.)	Project ID	Name	Project Area (ac)	Project Area (sf)	Length (lf)	Contributing DA (ac)	Volume (cf)	Total Area (ac)	Total Length (lf)	Estimated Construction Cost of Practice
Green Stormwater Infrastructure	2	AC_01_GSI_517	Green Stormwater Infrastructure along	2.39	104234	--	9.49	--	2.62	--	\$ 6,833,145.97
		AC_01_GSI_524	Green Stormwater Infrastructure outside	0.22	9698	--	0.58	--			\$ 635,777.44
Multi-Purpose Floodable Recreational Spaces	3	AC_01_FRS_066	Multi-Purpose Floodable Recreational Spaces outside of the Northeastern Presbyterian Church	0.21	9160	--	--	24425.41	0.73	--	\$ 162,836.09
		AC_01_FRS_058	Multi-Purpose Floodable Recreational Space in Barnard Hill Park	0.21	9168	--	--	24448.32			\$ 162,988.80
		AC_01_FRS_089	Multi-Purpose Floodable Recreational Space in Barnard Hill Park	0.31	13675	--	--	36467.17			\$ 243,114.49
Blue-Green Streets	5	AC_01_BGS_062	Eastern Ave Blue-Green Street	--	--	1610.72	--	120871.22	--	4392.61	\$ 2,068,164.48
		AC_01_BGS_063	Sherwood St NE Blue-Green Street	--	--	1232.74	--	60434.01			\$ 1,582,838.16
		AC_01_BGS_071	Varnum St NE Blue-Green Street	--	--	580.69	--	41827.49			\$ 1,177,639.32
		AC_01_BGS_108	21st St NE Blue-Green Street	--	--	387.80	--	27933.49			\$ 786,458.40
		AC_01_BGS_061	Upshur St NE Blue-Green Street	--	--	580.66	--	41825.33			\$ 1,177,578.48

Concept Area 3											
Type of Practice	Quantity (ea.)	Project ID	Name	Project Area (ac)	Project Area (sf)	Length (lf)	Contributing DA (ac)	Volume (cf)	Total Area (ac)	Total Length (lf)	Estimated Construction Cost of Practice
Multi-Purpose Floodable Recreational Spaces	2	AC_01_FRS_075	Multi-Purpose Floodable Recreational Spaces outside of the Church of Our Savior	0.21	9123	--	--	24327.75	0.49	--	\$ 162,185.02
		AC_01_FRS_076	Multi-Purpose Floodable Recreational Spaces outside of the Church of Our Savior	0.28	12396	--	--	33054.83			\$ 220,365.51

Concept Area 4											
Type of Practice	Quantity (ea.)	Project ID	Name	Project Area (ac)	Project Area (sf)	Length (lf)	Contributing DA (ac)	Volume (cf)	Total Area (ac)	Total Length (lf)	Estimated Construction Cost of Practice
Green Stormwater Infrastructure	1	AC_01_GSI_553	Green Stormwater Infrastructure at the Brookland Middle School	0.14	6192	--	2.34	--	0.14	--	\$ 405,894.43
Multi-Purpose Floodable Recreational Spaces	3	AC_01_FRS_067*	Multi-Purpose Floodable Recreational Space at the Turkey Thicket Tennis Courts*	1.32	57299	--	--	152796.16	5.21	--	\$ 1,018,641.07
		AC_01_FRS_067*	Multi-Purpose Floodable Recreational Space at the Turkey Thicket Playground*	0.54	23468	--	--	62581.33			\$ 417,208.89
		AC_01_FRS_068	Multi-Purpose Floodable Recreational Space at the Turkey Thicket Baseball Diamond	3.36	146339	--	--	390238.00			\$ 2,601,586.67
		AC_01_TRP_146	Tree Planting outside of the Turkey Thicket Rec Center	0.21	9257	--	--	--			\$ 17,001.00
Blue-Green Streets	2	AC_01_BGS_082	Randolph St Blue-Green Street	--	--	468.20	--	45906.20	--	838.40	\$ 1,202,337.60
		AC_01_BGS_069	John McCormack Rd Blue-Green Street	--	--	370.20	--	36297.47			\$ 950,673.60

\*Cost currently reflects a typical athletic field conversion to multi-purpose floodable recreational space

**Total BMP Cost: \$ 25,699,598.1**



**POTENTIAL CONCEPT AREAS**

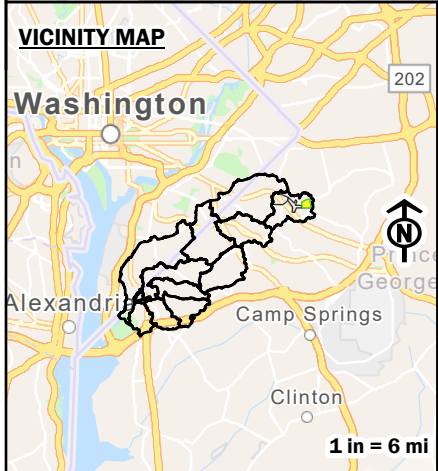
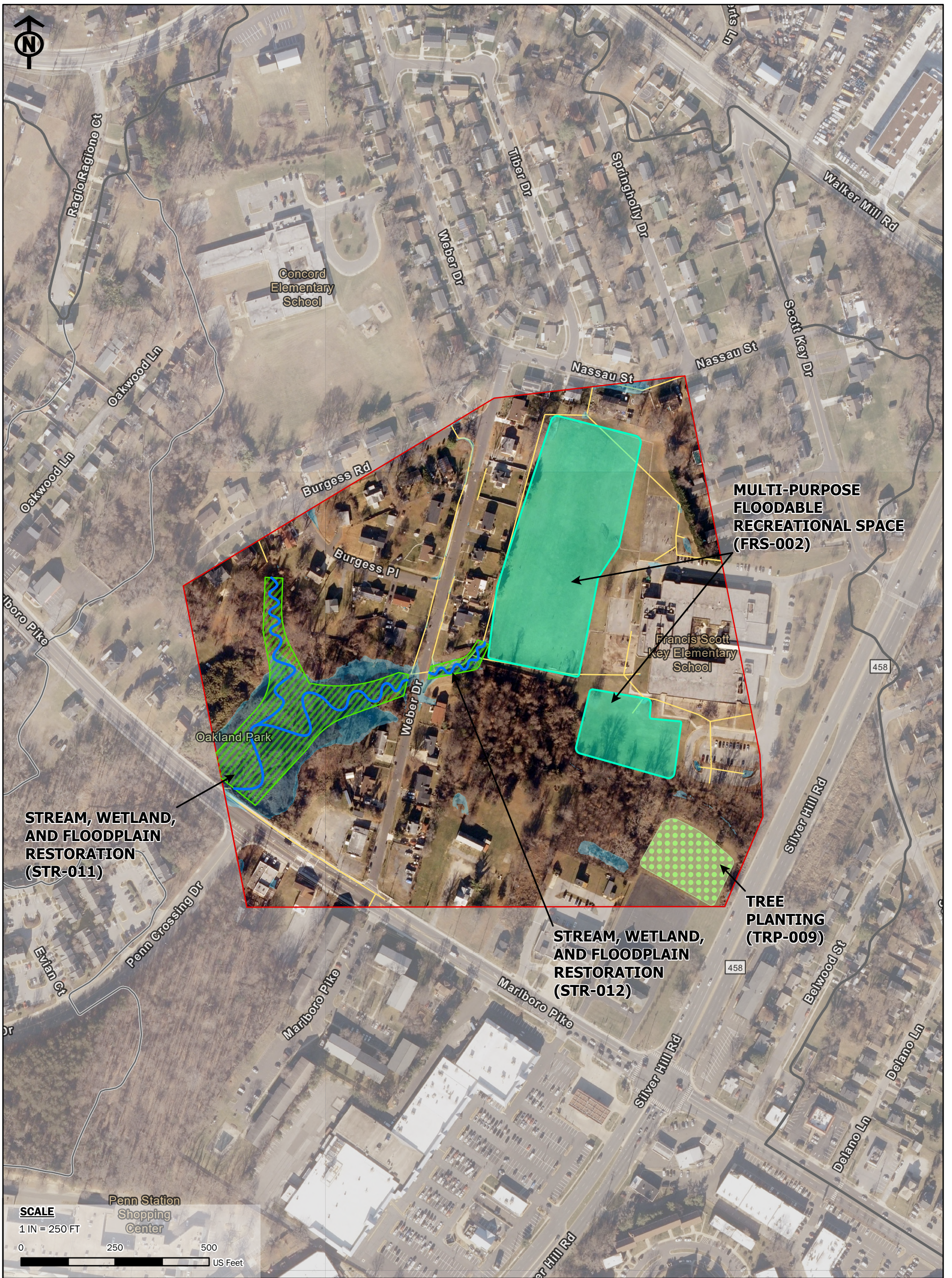
**OXON RUN FOCUS AREA 1:  
CONCEPT AREA 1**

**JUNE 2025**

**LEGEND**

Concept Area Boundary	Pond Retrofits
Focus Area Boundary	Stream, Wetland, and Floodplain Restoration
Subwatershed Boundary	Stormwater Conveyance
Step Pool Stormwater Conveyance System	Proposed Stream Centerline
FEMA 100 Year Floodplain	<b>Blue Spots</b>
DPIE Floodplain (PG Co.)	0.5 - 1 ft
Multi-Purpose Floodable Recreational Spaces	1 - 3 ft
Green Stormwater Infrastructure	3+ ft





**POTENTIAL CONCEPT AREAS**

**OXON RUN FOCUS AREA 1:  
CONCEPT AREA 3**

**JUNE 2025**

**LEGEND**

- Concept Area Boundary
- Focus Area Boundary
- Subwatershed Boundary
- Stream, Wetland, and Floodplain Restoration
- Multi-Purpose Floodable Recreational Spaces
- Tree Planting
- Stormwater Conveyance
- Proposed Stream Centerline

**Blue Spots**

- 0.5 - 1 ft
- 1 - 3 ft
- 3+ ft

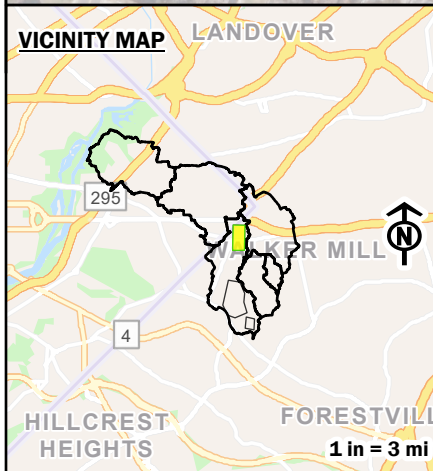
## Oxon Run

Concept Area 1											
Type of Practice	Quantity (ea.)	Project ID	Name	Project Area (ac)	Project Area (sf)	Length (lf)	Contributing DA (ac)	Storage Volume (cf)	Total Area (ac)	Total Length (lf)	Estimated Construction Cost of Practice
Pond Retrofits	2	OR_01_PND_001	Pond Retrofit at Torrance Ave	0.13	5480	--	4.62	--	0.42	--	\$ 119,343.31
		OR_01_PND_002	Pond Retrofit at White Owl Way	0.29	12741	--	6.80	--			\$ 277,478.72
Stream, Wetland, and Floodplain Restoration	2	OR_01_STR_004	Floodplain Restoration at Quarter Ave	5.62	244954	2593.6	--	483806.72	8.50	4306.95	\$ 3,631,040.00
		OR_01_STR_006	Floodplain Restoration at White Owl Way	2.88	125282	1713.35	--	323860.65			\$ 2,398,690.00
Green Stormwater Infrastructure	1	OR_01_GSI_727	Green Stormwater Infrastructure at Dupont Heights Park	0.25	11070	--	0.82	--	1.16	--	\$ 725,667.22
				0.29	12719	--	1.57	--			\$ 833,793.90
				0.62	26856	--	2.05	--			\$ 1,760,527.22
Multi-Purpose Floodable Recreational Spaces	1	OR_01_FRS_001	Multi-Purpose Floodable Recreational Space at Dupont Heights Park	2.44	106087	--	--	282899.147	2.44	--	\$ 1,885,994.31
Storm Drain Outfall Retrofits	1	OR_01_OUT_105	White Owl Way Storm Drain Outfall Retrofit	--	--	208.93	--	--	--	208.93	\$ 292,502.00

Concept Area 2											
Type of Practice	Quantity (ea.)	Project ID	Name	Project Area (ac)	Project Area (sf)	Length (lf)	Contributing DA (ac)	Storage Volume (cf)	Total Area (ac)	Total Length (lf)	Estimated Construction Cost of Practice
Pond Retrofits	2	OR_01_PND_003	Pond Retrofit at Penn Place Townhome Community	0.91	39619	--	--	--	1.37	--	\$ 862,805.94
		OR_01_PND_005	Pond Retrofit at Penn Crossing Dr	0.46	19929	--	--	--			\$ 434,008.90
Stream, Wetland, and Floodplain Restoration	3	OR_01_STR_008	Floodplain Restoration behind the Holly Spring Meadows Apartments	3.10	134875	1748.59	--	284731.00	5.60	3694.19	\$ 2,448,026.00
		OR_01_STR_008	Floodplain Restoration at the Penn Place Townhome Community	0.82	35887	858.80	--	30734.02			\$ 1,202,320.00
		OR_01_STR_010		1.68	73337	1086.80	--	120612.19			\$ 1,521,520.00
Green Stormwater Infrastructure	1	OR_01_GSI_731	Green Stormwater Infrastructure behind the Holly Spring Meadows Apartments	0.39	16950	--	2.69	--	0.39	--	\$ 1,111,180.43

Concept Area 3											
Type of Practice	Quantity (ea.)	Project ID	Name	Project Area (ac)	Project Area (sf)	Length (lf)	Contributing DA (ac)	Storage Volume (cf)	Total Area (ac)	Total Length (lf)	Estimated Construction Cost of Practice
Stream, Wetland, and Floodplain Restoration	2	OR_01_STR_011	Floodplain Restoration at Marlboro Pike	2.07	90383	375.90	--	35454.82	2.22	1112.66	\$ 526,260.00
		OR_01_STR_012	Floodplain Restoration at Weber Dr			0.14	6287	171.26			--
		OR_01_FRS_002	Multi-Purpose Floodable Recreational Space at Francis Scott Key Elementary School	1.02	44531	--	--	118748.37			--
Multi-Purpose Floodable Recreational Spaces	2	OR_01_FRS_002		3.93	171060	--	--	456160.29	4.95	--	\$ 3,041,068.62
Tree Planting	1	OR_01_TRP_009	Tree Planting behind the Lighthouse on the Pike	0.77	33492	--	--	--	0.77	--	\$ 61,508.59

**Total BMP Cost: \$ 24,956,854.99**



**POTENTIAL CONCEPT AREAS**

WATTS BRANCH FOCUS AREA 2:  
CONCEPT AREA 1

JUNE 2025

**LEGEND**

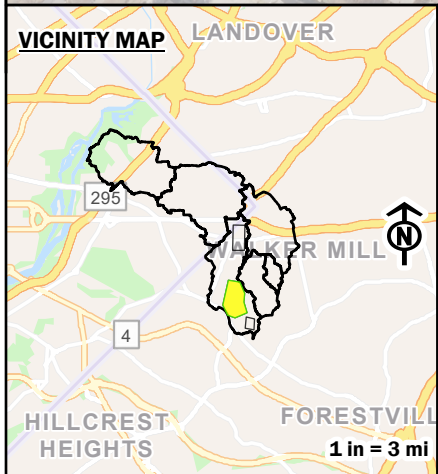
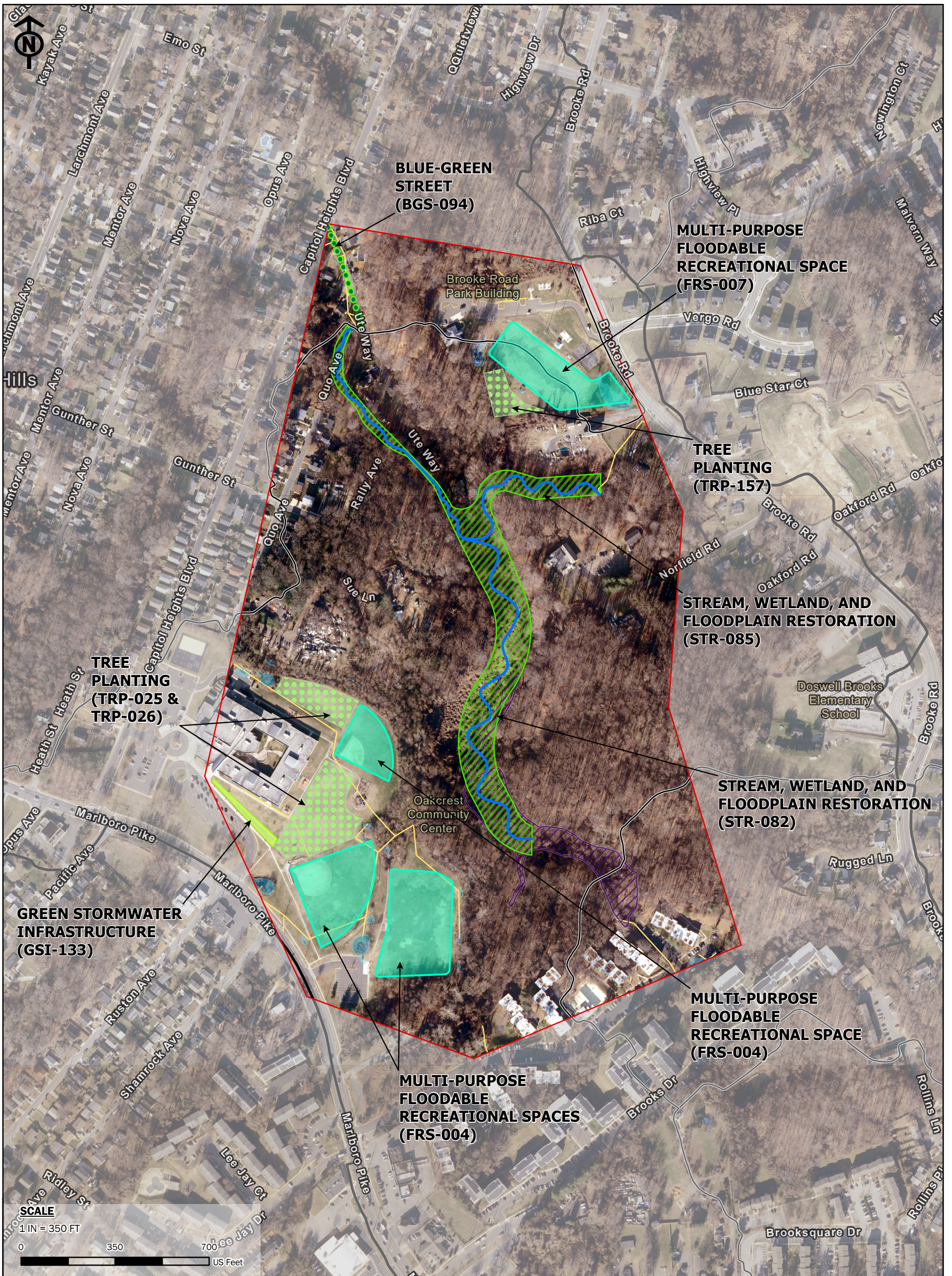
- Concept Area Boundary
- Bridge and Culvert Modifications
- Focus Area Boundary
- Subwatershed Boundary
- Green Stormwater Infrastructure
- Stream, Wetland, and Floodplain Restoration
- Tree Planting

**Blue-Green Streets**

- Sidewalk Only
- Sidewalk and Parking Lane
- Stormwater Conveyance
- Proposed Stream Centerline

**Blue Spots**

- 0.5 - 1 ft
- 1 - 3 ft
- 3+ ft



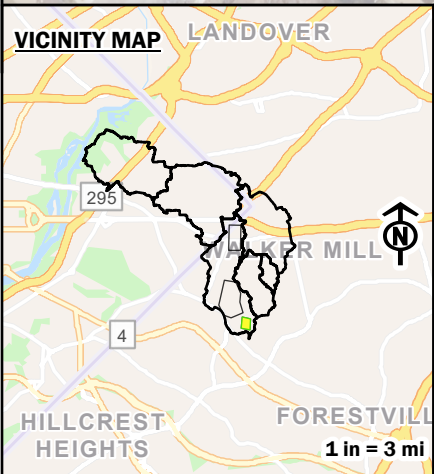
**POTENTIAL CONCEPT AREAS**

**WATTS BRANCH FOCUS AREA 2: CONCEPT AREA 2**

**JUNE 2025**

**LEGEND**

- Concept Area Boundary
- Focus Area Boundary
- Subwatershed Boundary
- DPIE Floodplain (PG Co.)
- Multi-Purpose Floodable Recreational Spaces
- Green Stormwater Infrastructure
- Stream, Wetland, and Floodplain Restoration
- Tree Planting
- Blue-Green Streets
  - Travel Lane
  - Stormwater Conveyance
  - Proposed Stream Centerline
- Blue Spots
  - 0.5 - 1 ft
  - 1 - 3 ft
  - 3+ ft



**POTENTIAL CONCEPT AREAS**

WATTS BRANCH FOCUS AREA 2:  
CONCEPT AREA 3

JUNE 2025

**LEGEND**

- Concept Area Boundary
- Focus Area Boundary
- Subwatershed Boundary
- Green Stormwater Infrastructure
- Pond Retrofits
- Stormwater Conveyance

**Blue Spots**

- 0.5 - 1 ft
- 1 - 3 ft
- 3+ ft

**Watts Branch**

Concept Area 1												
Type of Practice/BMP	Quantity (ea.)	Project ID	Name	Project Area (ac)	Project Area (sf)	Length (lf)	Contributing DA (ac)	Storage Volume (cf)	Total Area (ac)	Total Length (lf)	Area/Subwatershed Area	Estimated Construction Cost of Practice
Stream, Wetland, and Floodplain Restoration	4	WB_02_STR_078	Floodplain Restoration at Faye Street	1.68	73092	341.30	512.00	344979.65	3.14	1994.56	--	\$ 477,820.00
		WB_02_STR_079	Floodplain Restoration along Chamber Ave	0.32	14009	192.20	499.20	58511.65				\$ 269,080.00
		WB_02_STR_080	Floodplain Restoration along Chamber Ave	0.57	24852	462.80	492.80	115792.08				\$ 647,920.00
		WB_02_STR_081	Floodplain Restoration between Larchmont Ave and Nova Ave	0.25	11029	203.36	454.40	62864.76				\$ 284,704.00
Green Stormwater Infrastructure	2	WB_02_GSI_140	Green Stormwater Infrastructure at the corner of Capitol Heights Blvd and Central Ave	0.23	10121	--	10.99	--	0.31	--	10.103%	\$ 663,460.24
		WB_02_GSI_139	Green Stormwater Infrastructure at the Capitol Heights Police Department	0.08	3434	--	--	--				\$ 225,107.29
		WB_02_TRP_158	Tree Planting along Sultan Ave and Quire Ave	0.70	30685	--	2.43	--				\$ 56,354.61
Tree Planting	2	WB_02_TRP_015	Tree Planting along Chamber Ave	1.42	61911	--	4.47	--	2.13	--	1.954%	\$ 113,701.66
		WB_02_TRP_158	Tree Planting along Sultan Ave and Quire Ave	0.70	30685	--	2.43	--				\$ 56,354.61
Bridge/Culvert Modifications	4	WB_02_BCM_005	Faye St Culvert Removal	--	--	--	--	--	--	--	--	\$ 420,000.00
		WB_02_BCM_006	Emmet St Culvert Modification	--	--	--	--	--				\$ 420,000.00
		WB_02_BCM_007	Dole St Culvert Modification	--	--	--	--	--				\$ 420,000.00
		WB_02_BCM_008	Central Ave Culvert Modification	--	--	--	--	--				\$ 420,000.00
Blue-Green Streets	2	WB_02_BGS_110	Chamber Ave Blue-Green Street	0.10	4563	282.26	1.18	13837.55	--	833.22	--	\$ 362,421.84
		WB_02_BGS_002	Central Ave Blue-Green Street	0.23	10101	550.96	20.05	25351.36				\$ 819,828.48
Concept Area 2												
Type of Practice/BMP	Quantity (ea.)	Project ID	Name	Project Area (ac)	Project Area (sf)	Length (lf)	Contributing DA (ac)	Storage Volume (cf)	Total Practice Area (ac)	Total Practice Length (lf)	Area/Subwatershed Area	Estimated Construction Cost of Practice
Stream, Wetland, and Floodplain Restoration	2	WB_02_STR_082	Floodplain Restoration at the Oakcrest Community Center	5.58	243270	2711.27	211.2	632897.16	5.58	3360.23	--	\$ 3,795,778.00
		WB_02_STR_085	Floodplain Restoration at Norfield Rd			648.96						\$ 908,544.00
Green Stormwater Infrastructure	1	WB_02_GSI_133	Green Stormwater Infrastructure at William W. Hall Academy	0.17	7211	--	1.24	--	0.17	--	0.786%	\$ 472,692.27
Multi-Purpose Floodable Recreational Spaces	2	WB_02_FRS_004	Multi-Purpose Floodable Recreational Spaces at William W. Hall Academy	2.16	93995	--	5.03	250654.08	6.36	--	--	\$ 1,671,027.20
				1.72	75017	--	4.48	200045.787				\$ 1,333,638.58
				0.80	34876	--	1.31	93001.36				\$ 620,009.07
		WB_02_FRS_007	Multi-Purpose Floodable Recreational Space at Brooke Rd Park	1.68	72965	--	4.54	194574.32				\$ 1,297,162.13
Tree Planting	3	WB_02_TRP_157	Tree Planting at Brooke Rd Park	0.39	17112	--	3.02	--	2.53	--	1.603%	\$ 31,426.34
		WB_02_TRP_025	Tree Planting at William W. Hall Academy	0.66	28685	--	--	--				\$ 52,680.76
		WB_02_TRP_026	Tree Planting at William W. Hall Academy	1.48	64337	--	--	--				\$ 118,157.19
Blue-Green Streets	1	WB_02_BGS_094	Ute Way Blue-Green Street	0.12	5119	388.78	6.98	15113.33	--	388.78	--	\$ 340,182.50
Concept Area 3												
Type of Practice/BMP	Quantity (ea.)	Project ID	Name	Project Area (ac)	Project Area (sf)	Length (lf)	Contributing DA (ac)	Storage Volume (cf)	Total Area (ac)	Total Length (lf)	Area/Subwatershed Area	Estimated Construction Cost of Practice
Pond Retrofit	1	WB_02_PND_012	Pond Retrofit behing Brooksquare Townhomes	0.26	11432.22	--	27.52	--	0.26	--	--	\$ 248,968.35
Green Stormwater Infrastructure	3	WB_02_GSI_687	Green Stormwater Infrastructure in the Brooksquare Townhome Community	0.11	4914.7	--	12.86	--	0.29	--	46.730%	\$ 322,185.89
		WB_02_GSI_688		0.06	2724.96	--		\$ 178,636.27				
		WB_02_GSI_689		0.11	5004.38	--		\$ 328,064.91				

Total BMP Cost: \$ 18,432,411.58