

Arlington, Virginia

Water & Sewer Infrastructure

This program provides and maintains water delivery, sanitary sewer collection, and wastewater treatment systems that provide high quality water and sewer services and products. This program has been established to ensure that water and sewer services are available to all residents in Arlington's service area and that water pollution control meets model discharge standards.

As with any utility, water and sewer services require extensive capital investment to maintain and periodically upgrade the existing infrastructure. In addition, Federal and State regulations relating to water and sewer treatment require a daunting infrastructure investment level for local governments nationwide. Given Arlington's location in the Chesapeake Bay area and an aging system, significant investment is required over the next six years, particularly for Arlington's Water Pollution Control Plant (WPCP). Costs associated with these programs are funded through the Utility Fund.

6 Year Capital Program Costs (\$ in 000s)

	FY07	FY08	FY09	FY10	FY11	FY12	6 Year Total
Water Distribution System	2,000	2,100	2,200	2,300	2,200	2,200	13,000
Sanitary Sewer System Improvements	12,440	2,200	2,095	1,475	1,250	1,250	20,710
WPCP Non-expansion Capital	3,025	3,025	2,850	2,650	2,100	2,100	15,750
WPCP Expansion Capital	80,800	90,000	47,800	6,400	800	-	225,800
Non-Expansion Capital	15,586	5,882	7,100	7,268	5,200	5,500	46,536
Total Program Cost	113,851	103,207	62,045	20,093	11,550	11,050	321,796

Program Funding Sources (\$ in 000s)

	FY07	FY08	FY09	FY10	FY11	FY12	6 Year Total
Revenue from the Commonwealth	-	-	-	-	-	-	-
Developer Contribution	4,440	4,300	4,295	3,775	3,450	3,450	23,710
Other Funding	21,095	21,420	12,920	6,820	1,095	295	63,645
Commonwealth Loan Funds	-	69,000	35,300	-	-	-	104,300
Master Lease	-	-	-	-	-	-	-
Special Tax District	-	-	-	-	-	-	-
PAYG	9,316	8,487	9,530	9,498	7,005	7,305	51,141
Bond Issue	79,000						79,000
Total Program Funding	113,851	103,207	62,045	20,093	11,550	11,050	321,796

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WATER DISTRIBUTION SYSTEM

Program Description

The Water Distribution System Program provides enhancements to the water system, increases system capacity, and improves water delivery. The projects proposed ensure the water system maintains adequate capacity to support residential and commercial growth. Hook-up fees paid by developers fund these projects.

Master Plan Impact

The majority of the projects are identified in the 1992 Master Plan. Those not specifically identified in the Master Plan are in accordance with the priorities set forth in the Master Plan.

6 YEAR PROGRAMMED SUMMARY (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
1. Ft. Barnard Pumping Station	1,800	-	-	-	-	-	1,800
2. Gravity Transmission Mains	-	800	800	800	800	800	4,000
3. Improvements for Development	200	300	300	300	300	300	1,700
4. Fairfax/Falls Church Interconnect	-	-	-	600	-	-	600
5. Reservoir Supply Phase II	-	-	800	-	800	800	2,400
6. Columbia Pike Four Mile Run to S Glebe Road	-	300	300	300	300	300	1,500
7. Old Dominion Dr N Thomas St to Lorcom Ln	-	100	-	300	-	-	400
8. S Quincy St Columbia Pike to 8th St S	-	300	-	-	-	-	300
9. Wilson Blvd N Kenmore St to N Lincoln St	-	300	-	-	-	-	300
-	-	-	-	-	-	-	-
Total Recommendation	2,000	2,100	2,200	2,300	2,200	2,200	13,000

Cost Estimate Footnote: Funding recommendations are based on current estimates.

PROGRAM FUNDING SOURCES (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
Revenue from the Commonwealth	-	-	-	-	-	-	-
Developer Contribution	2,000	2,100	2,200	2,300	2,200	2,200	13,000
Other Funding	-	-	-	-	-	-	-
Special Tax District	-	-	-	-	-	-	-
Commonwealth Loan Funds	-	-	-	-	-	-	-
Master Lease	-	-	-	-	-	-	-
PAYG	-	-	-	-	-	-	-
Bond Issue	-	-	-	-	-	-	-
Total Funding Sources	2,000	2,100	2,200	2,300	2,200	2,200	13,000

SANITARY SEWER SYSTEM IMPROVEMENTS

Program Description

The Sanitary Sewer System Improvements and the Infiltration & Inflow Program address the capacity and rehabilitation of the sanitary sewer system. The projects proposed ensure the sewer system does not fall into disrepair and maintains adequate capacity to support residential and commercial growth. Hook-up fees paid by developers fund these projects. Larger maintenance projects are funded through utility user fees and bond financing. Infiltration and Inflow projects are identified annually through flow monitoring, manhole inspections, field surveys, and TV inspections of sanitary sewers.

Master Plan Impact

These projects are consistent with the plans policies and objectives of the Sanitary Sewer Collection System Master Plan adopted December 2002.

Bond Financing Notes

Costs shown are based on current costs. Future costs are subject to market variables that can either increase or decrease the costs shown. Bond maturity is assumed to be 20 years. The costs shown also reflect the costs as if the full approved bond was sold in the first year following approval by the voters, which may or may not be the case for any particular program.

6 YEAR PROGRAMMED SUMMARY (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
1. Potomac Interceptor Phase 1	10,000	-	-	-	-	-	10,000
2. Infiltration & Inflow	950	700	350	-	-	-	2,000
3. Four Mile Run Junction Chambers	-	400	-	300	-	-	700
4. Potomac Interceptor Phase 2	1,000	1,000	-	-	-	-	2,000
5. Improvements for Development	50	50	100	100	150	150	600
6. Stub Elimination Program	50	50	75	75	100	100	450
7. Spout Run	20	-	80	-	-	-	100
8. Potomac Interceptor Phase 3	300	-	1,000	1,000	1,000	1,000	4,300
9. Bon Air Park	20	-	80	-	-	-	100
10. N. Sycamore St.	30	-	210	-	-	-	240
11. N. Meade St.	20	-	200	-	-	-	220
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
Total Program Cost	12,440	2,200	2,095	1,475	1,250	1,250	20,710

Cost Estimate Footnote: Funding recommendations are based on current estimates.

PROGRAM FUNDING SOURCES (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
Revenue from the Commonwealth	-	-	-	-	-	-	-
Developer Contribution	2,440	2,200	2,095	1,475	1,250	1,250	10,710
Other funding	-	-	-	-	-	-	-
Commonwealth Loan Funds	-	-	-	-	-	-	-
Master Lease	-	-	-	-	-	-	-
Special Tax District	-	-	-	-	-	-	-
PAYG	-	-	-	-	-	-	-
Bond Issue	10,000	-	-	-	-	-	10,000
Total Funding Sources	12,440	2,200	2,095	1,475	1,250	1,250	20,710

BOND FINANCING IMPACT (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12
Bond Financing Cost (P&I)		700	890	992	966	940

1. POTOMAC INTERCEPTOR PHASE 1

Project Description

This project is necessary to increase the carrying capacity of the portion of the Potomac Interceptor sanitary sewer extending from the River Place Coop in Rosslyn across Route 50, the Iwo Jima Memorial property, Arlington National Cemetery and to Columbia Pike in order to eliminate sewer backups and overflows which have occurred in the River Place Coop portion of the system, and provide capacity for anticipated build-out conditions. Final design is substantially complete and acquisition of permits is in process.

Associated Master Plan:

Sanitary Sewer Master Plan

Neighborhood:

Radnor/Ft. Myer Heights

Advisory Commission:

N/A

COLUMBIA PIKE TO SOUTH EADS STREET (WATER POLLUTION CONTROL PLANT)

Project Strategic Goal

This project is necessary to increase the carrying capacity of the portion of the Potomac Interceptor sanitary sewer extending from the River Place Coop in Rosslyn across Route 50, the Iwo Jima Memorial property, Arlington National Cemetery and to Columbia Pike in order to eliminate sewer backups and overflows which have occurred in the River Place Coop portion of the system, and provide capacity for anticipated build-out conditions.

Project Justification

This project is necessary to increase the carrying capacity of the portion of the Potomac Interceptor sanitary sewer extending from the River Place Coop in Rosslyn across Route 50, the Iwo Jima Memorial property, Arlington National Cemetery and to Columbia Pike in order to eliminate sewer backups and overflows which have occurred in the River Place Coop portion of the system, and provide capacity for anticipated build-out conditions.

1. Potomac Interceptor Phase 1

CAPITAL COST SCHEDULE (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
A & E							-
Land Acquisition							-
Construction	10,000						10,000
Relocation and Temp Facilities							-
Equipment and Furnishings							-
Total Project Cost	10,000	-	-	-	-	-	10,000

Notes on Cost Estimates

Cost is based on current design plans. The bulk of construction must occur at night so as not to interfere with the daily operations of Arlington National Cemetery.

FUNDING SCHEDULE (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
Commonwealth Revenue							-
Developer Contributions							-
Other Funding							-
Total Outside Revenue	-	-	-	-	-	-	-
PAYG							
Commonwealth Loan Funds							
Master Lease							
PAYG							
Bond Issue	10,000						10,000
Total County Contribution	10,000	-	-	-	-	-	10,000

Notes on Funding Schedule

A \$6 million bond referendum was issued in FY00. Additional book-up fees have been allocated to the project, however, it is anticipated that the \$10 million bond will cover the additional fees.

PROJECTED ADDITIONAL OPERATING COSTS (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12
Anticipated FTEs						
New Operations Cost						
New Facilities Cost						
Master Lease Financing Cost						
CAPP Impact						
Gross Operating Cost	-	-	-	-	-	-
<i>Less Fees</i>	-	-	-	-	-	-
Net Operating Cost	-	-	-	-	-	-

Notes on Operating Costs

There is no anticipated increase in operating costs.

WPCP NON-EXPANSION CAPITAL

Program Description

The Water Pollution Control Plant (WPCP) Non-expansion Capital Program provides annually for the repair and replacement of current equipment and infrastructure at the plant and 14 lift stations. Major components of this program include refurbishing or replacing equipment to prevent premature failure, as well as infrastructure improvements and automating treatment processes to increase operational efficiency. Plant Non-expansion Capital also funds the capital portion of Arlington's pro-rata share of improvements to the DCWASA Blue Plains Plant for the portion of the County's sewer treated there.

Master Plan Impact

The program's mission is to safely and economically process wastewater and hazardous waste materials for a healthy environment for all to live. The primary objective is to protect the public and environment through the cost-effective treatment and disposal of wastewater generated in Arlington County.

6 YEAR PROGRAMMED SUMMARY (\$ IN 000S)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
1. WPCP Non-expansion Capital	2,025	2,025	1,850	1,850	1,300	1,300	10,350
2. Blue Plains Capital Improvements	1,000	1,000	1,000	800	800	800	5,400
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
Total Recommendation	3,025	3,025	2,850	2,650	2,100	2,100	15,750

Cost Estimate Footnote: Funding recommendations are based on current estimates.

PROGRAM FUNDING SOURCES (\$ IN 000S)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
Revenue from the Commonwealth	-	-	-	-	-	-	-
Developer Contribution	-	-	-	-	-	-	-
Other Funding	295	420	420	420	295	295	2,145
Special Tax District	-	-	-	-	-	-	-
Commonwealth Loan Funds	-	-	-	-	-	-	-
Master Lease	-	-	-	-	-	-	-
PAYG	2,730	2,605	2,430	2,230	1,805	1,805	13,605
Bond Issue	-	-	-	-	-	-	-
Total Funding Sources	3,025	3,025	2,850	2,650	2,100	2,100	15,750

*Other funding is from Inter Jurisdictional payments.

1. WPCP MASTER PLAN 2001 UPDATE

CRITICAL MILESTONES

<i>Begin CP-1A</i>	Apr-04
<i>Complete CP-1A</i>	Jun-06
<i>Begin CP-1 & CP-2</i>	Jun-06
<i>Complete CP-1</i>	Fall 2008
<i>Complete CP-2</i>	Winter 2010

Project Description

The Plant Master Plan Update is a multi-year program to upgrade the Water Pollution Control Plant to both reliably meet the effluent standards as well as minimize the environmental impact on the Potomac River and Chesapeake Bay.

Associated Master Plan:

WPCP Master Plan 2001 Update

Neighborhood:

Aurora Highlands, Arlington Ridge, Arlington Ridge Terrace

Advisory Commission:

Environment & Energy Conservation Commission

3402 S. GLEBE ROAD

Project Strategic Goal

The WPCP Master Plan 2001 Update Project will provide additional plant capacity, reliability, and redundancy, and will also allow the Arlington plant to reduce total nitrogen below the current limit of 8mg/L. This represents a major commitment to protecting water quality and aquatic life in the Chesapeake Bay. The Project contains the following elements: two design contracts, three construction packages, three engineering services packages, and a program management contract to oversee the entire project. The two largest construction packages, Construction Package 1 (CP-1) and Construction Package 2 (CP-2), have been combined for bidding purposes, with CP-1 including the construction of two new Equalization Tanks and a new Biofilter facility and CP-2 including the construction of two new aeration tanks and three new secondary clarifiers. Aesthetic, educational and landscaping elements will be refined after the essential operational components are under contract or completed.

Project Justification

In April 2001, the Master Plan 2001 Update was developed to address bypasses, new and foreseen regulations, aging infrastructure, and capacity requirements. The capital improvements outlined by the Plan provide for the goal of eliminating wet-weather bypasses, increased redundancy, a capacity sufficient for existing and future flows to approximately 2015-2020, and a positive environmental impact for Four Mile Run, the Potomac River, and the Chesapeake Bay. The current estimate of all improvements, based on final design, totals \$410 million, +/- five percent, including inflation. County ratepayers' share totals 83 percent and IJ partners' share totals the remaining 17 percent. To date, County financing for this program has been provided by a \$100 million low interest rate loan from the Department of Environmental Quality Water Facilities Revolving Loan Fund (VRLF). A second VRLF loan application for \$76 million has been approved and will be issued prior to the end of FY 2006. The balance of project financing (net of IJ funding) will be provided by either future VRLF loans or General Obligation bond financing, although the County will attempt to maximize VRLF financing due to the low interest rates offered by this program. Unlike General Obligation bonds, VRLF loan proceeds will be drawn down as the County's share of construction costs are incurred with debt service increasing in proportion to the construction draws. In addition, the County is pursuing grant funding from the Department of Environmental Quality.

1. WPCP Master Plan 2001 Update

CAPITAL COST SCHEDULE (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
A & E	6,800	9,600	8,000	1,300	400		26,100
Land Acquisition							-
Construction	74,000	80,400	39,800	5,100	400		199,700
Relocation and Temp Facilities							-
Equipment and Furnishings							-
Total Project Cost	80,800	90,000	47,800	6,400	800	-	225,800

Notes on Cost Estimates

Approximately \$184 million of this project will be financed prior to FY 2007, including \$176 million in VRLF loans, and \$8 million in prior IJ funding. Annual expenditures are projected to average \$89 million from FY 2007 through FY 2010.

FUNDING SCHEDULE (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
Commonwealth Revenue							-
Developer Contributions							-
Other Funding	20,800	21,000	12,500	6,400	800		61,500
Total Outside Revenue	20,800	21,000	12,500	6,400	800	-	61,500
PAYG							-
Commonwealth Loan Funds		69,000	35,300				104,300
Master Lease							-
PAYG							-
Bond Issue	60,000						60,000
Total County Contribution	60,000	69,000	35,300	-	-	-	164,300

Notes on Funding Schedule

Inter-Jurisdictional (IJ) revenue is listed as Other Funding and assumes a 75% upgrade/expansion ratio based on each IJ partner's reserve capacity, resulting in the IJ partners providing approximately 17 percent of the project cost. The IJ payments and VRLF funds are received on a reimbursement basis as construction costs are incurred. The County is also pursuing grant funding from the Department of Environmental Quality.

PROJECTED ADDITIONAL OPERATING COSTS (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12
Anticipated FTEs	-	-	-	-	-	-
New Operations Cost	80	850	1,340	1,390	1,440	1,490
New Facilities Cost	-	-	-	-	-	-
Master Lease Financing Cost	-	-	-	-	-	-
CAPP Impact	-	-	-	-	-	-
Gross Operating Cost	80	850	1,340	1,390	1,440	1,490
Less Fees	-	-	-	-	-	-
Net Operating Cost	80	850	1,340	1,390	1,440	1,490

Notes on Operating Costs

New operating costs are for new equipment and chemical usage associated with the Master Plan 2001 project.

NON-EXPANSION CAPITAL

Program Description

This program provides funding for all water and sewer replacement of rehabilitation projects that do not expand system capacity. The Washington Aqueduct supplies Arlington with all of its drinking water and, in addition to charges for all water consumption, charges the County for its portion of capital maintenance costs. Infiltration and Inflow projects are identified annually through flow monitoring, manhole inspections, field surveys, and TV inspections of sanitary sewers.

Master Plan Impact

These projects are consistent with the plans, policies, and objectives of the Water System Master Plan adopted September 1992 and the Sanitary Sewer Collection System Master Plan adopted December 2002.

Bond Financing Notes

Costs shown are based on current costs. Future costs are subject to market variables that can either increase or decrease the costs shown. Bond maturity is assumed to be 20 years. The costs shown also reflect the costs as if the full approved bond was sold in the first year following approval by the voters, which may or may not be the case for any particular program.

6 YEAR PROGRAMMED SUMMARY (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
1. Large Diameter Water Main Rehab Projects	400	450	450	500	500	500	2,800
2. Large Valve Program	150	150	150	150	150	150	900
3. Four-Inch and Smaller Water Mains	150	150	200	200	250	250	1,200
4. Water Main Cleaning and Lining Projects	750	750	800	800	850	850	4,800
5. Emergency Water Main Breaks/ Un-planned Non-expansion Projects	300	300	350	350	400	400	2,100
6. Washington Aqueduct Capital	11,836	1,632	1,700	1,768	1,800	1,800	20,536
7. Infiltration and Inflow	1,750	1,400	1,750	2,100	2,100	2,100	11,200
8. Large Diameter Sewer Rehabilitation	250	250	300	300	350	350	1,800
9. S Glebe Rd-Long Branch to Arlington Ridge Rd	-	100	500	-	-	-	600
10. Water Tank Rehabilitation	-	500	500	500	500	500	2,500
11. Sewer Force Mains	-	200	400	600	100	400	1,700
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
Total Program Cost	15,586	5,882	7,100	7,268	7,000	7,300	50,136

Cost Estimate Footnote: Funding recommendations are based on current estimates.

PROGRAM FUNDING SOURCES (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
Revenue from the Commonwealth	-	-	-	-	-	-	-
Developer Contribution	-	-	-	-	-	-	-
Other funding	-	-	-	-	-	-	-
Commonwealth Loan Funds	-	-	-	-	-	-	-
Master Lease	-	-	-	-	-	-	-
Special Tax District	-	-	-	-	-	-	-
PAYG	6,586	5,882	7,100	7,268	7,000	7,300	37,536
Bond Issue	9,000	-	-	-	-	-	9,000
Total Funding Sources	15,586	5,882	7,100	7,268	7,000	7,300	46,536

BOND FINANCING IMPACT (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12
Bond Financing Cost (P&I)		717	717	717	717	717

6. WASHINGTON AQUEDUCT CAPITAL

Project Description

This program provides the County's share of funding for capital improvements to the Water Treatment Plant, which is managed by the U.S. Army Corps of Engineers' Washington Aqueduct Division.

Associated Master Plan:

Non Expansion Capital

Neighborhood:

County-wide

Advisory Commission:

N/A

RESIDUALS PROJECT

Project Strategic Goal

To ensure that there is funding available as necessary for the U.S. Army Corps of Engineers to complete their capital projects.

Project Justification

This program provides the County's share of funding for capital improvements to the Water Treatment Plant, which is managed by the U.S. Army Corps of Engineers' Washington Aqueduct Division. The residuals project is mandated by the federal agency equivalent of a consent decree. Historically, the Aqueduct has taken residuals that settle and are dredged from its basins and reservoir and discharged them to the Potomac during high flow conditions. Under a Federal Facilities Compliance Agreement that the Corps entered into with EPA, they will collect the residuals and dewater them in a new dewatering facility that will be constructed near Sibley Hospital. The dewatered residuals will be trucked out and disposed at landfills. The current budget estimate is \$111 million, including a roughly 40% contingency. Arlington's share is 15-16% of total costs.



Washington Aqueduct

6. Washington Aqueduct Capital

CAPITAL COST SCHEDULE (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
A & E							-
Land Acquisition							-
Construction	11,836	1,632	1,700	1,768	1,800	1,800	20,536
Relocation and Temp Facilities							-
Equipment and Furnishings							-
Total Project Cost	11,836	1,632	1,700	1,768	-	-	20,536

Notes on Cost Estimates

Funding is consistent with the plans for replacement and rehabilitation work at Dalecarlia.

FUNDING SCHEDULE (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	6 Year Total
Commonwealth Revenue							-
Developer Contributions							-
Other Funding							-
Total Outside Revenue	-	-	-	-	-	-	-
PAYG							-
Commonwealth Loan Funds							-
Master Lease							-
PAYG	2,836	1,632	1,700	1,768	1,800	1,800	11,536
Bond Issue	9,000						9,000
Total County Contribution	11,836	1,632	1,700	1,768	1,800	1,800	20,536

Notes on Funding Schedule

Funds are transferred from the operating fund and are generated through rates charged customers for water service.

PROJECTED ADDITIONAL OPERATING COSTS (\$ IN 000s)

	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12	
Anticipated FTEs							-
New Operations Cost							-
New Facilities Cost							-
Master Lease Financing Cost							-
CAPP Impact							-
Gross Operating Cost	-	-	-	-	-	-	-
<i>Less Fees</i>							-
Net Operating Cost	-	-	-	-	-	-	-

Notes on Operating Costs

There is no anticipated increase in operating costs.

OUT YEAR PROJECTS

Water Distribution System

N. Harrison Street

This project will install a water main across the higher elevations of the County. Preliminary studies indicate a 16 inch main is likely. This main will reinforce the connections between our North and West Reservoir systems, which act as one water pressure zone. Other improvements including pressure reducing or sustaining valves between the Reservoir system and Gravity One system in Ballston are also being evaluated for inclusion with this project.

Fairfax/Falls Church Interconnect

This project will provide funding to interconnect the water systems of Arlington County with the water systems of the City of Falls Church and Fairfax County to provide for redundancy in our water supply alternatives. This may include additional crossings of the Potomac River for the Falls Church water system, connections to large diameter transmission mains in the Fairfax County system, new transmission mains from Falls Church or Fairfax County to Arlington and/or new pumping station capacity within Arlington's, Falls Church's or Fairfax's water distribution systems.

Reservoir Supply – Phase 2

A new 24-inch water main is proposed along Williamsburg Boulevard from North Glebe Road to Little Falls Road in the vicinity of the Minor Hill Reservoir. This project is the second phase of the Reservoir Supply Project. Phase I included construction of a 36-inch water main in Old Glebe Road and upgrades to the Fort Ethan Allen Pump Station.

Sanitary Sewer Improvements

Four Mile Run Junction Chambers

This project will provide junction chambers with manual or automatic gates as appropriate to allow crews to redirect flow for maintenance, emergencies or as necessary from one interceptor sewer to the other along the Four Mile Run gravity and relief sewer system. Currently, the manholes at these junctions provide no controls, just access and weirs that apportion the flow according to pre-set parameters but with no designed way to stop flow in either line if necessary to effect repairs downstream. Work will begin with several junction chamber manholes, starting closer to the wastewater treatment plant and then working west and north to give flexibility in operation along the entire Four Mile Run system.

Potomac Interceptor – Phase 2

This project will construct a parallel sanitary sewer to the 54-inch Potomac Interceptor located in S. Joyce Street and Army Navy Drive. The current interceptor is 54 inches in diameter along these streets, carries 40 percent of the County's sewage and has no parallel line.

Improvements for Development

This project provides funding for small segments of sewer main installation and other work directly associated with development work. This funding covers mains necessary for completion of a block where the developer is only responsible for work immediately on the frontage of the site. This may also cover work to abandon existing mains in prior developments. When modeling indicates a need for larger sewer mains, but the development requiring the extra flow is by-right, this funding may be used to do entire projects.

Stub Elimination Program

There are approximately 400 segments of sanitary sewer pipe that have no manhole access at the terminal end (stubs), making the pipe more difficult to inspect and maintain. This funding will construct manholes on approximately 10 stubs per year.

Spout Run (16th St. N.)

This project will replace or rehabilitate 175 feet of 12-inch sewer in the 4400 Block of 16th Street North.

Potomac Interceptor - Phase 3

This project will construct a parallel sanitary sewer to the Potomac Interceptor located in South Eads Street from Army Navy Drive to the Water Pollution Control Plant to prevent overflow from the line and alternative flow if work needs to be done. The current interceptor varies from 54 inches to 72 inches in diameter along these streets, carries 40 percent of the County's sewage and has no parallel line.

Bon Air Park

This project will replace or rehabilitate 420 feet of 10-inch sewer in Bon Air Park. The project runs from the north end of North Arlington Mill Drive to Route 66.

N. Sycamore St.

This project will replace or rehabilitate the 12-inch sewer in North Sycamore Street from 19th Street North to approximately 200 feet north of Washington Boulevard.

N. Meade St. at Arlington Blvd.

This project will replace or rehabilitate the 10-inch sanitary sewer crossing Arlington Boulevard at North Meade Street.