A. Identification and Coding Information

1. Project Number	Agency Number	Update Code
804537	S-126.00	Change

2. Date: October 1, 2003

Revised:

7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac.

3. Project Name: Rock Run Sewage Treatment Facility

5.Agency: **WSSC**

4. Program: **Sanitation** 6. Planning Area: Potomac-Cabin John & Vicinity P.A. 29

B. Expenditure Schedule (000's)

Cost Elements	(8) Total	(9) Thru FY '03	(10) Estimate FY '04	(11) Total 6 Years	(12) Year 1 FY '05	(13) Year 2 FY '06	(14) Year 3 FY '07	(15) Year 4 FY '08	(16) Year 5 FY '09	(17) Year 6 FY '10	(18) Beyond 6 Years
Planning, Design & Supervision	**26,047**	4,582									21,465
Land	**11,500**	11,500									
Site Improvements & Utilities											
Construction	**166,408**	254									166,154
Other	**18,762**										18,762
Total	**222,717**	**16,336**									**206,381**

C. Funding Schedule (000's)

WSSC Bonds	**16,336**	16,336									
SDC	**206,381**										206,381

D. Description & Justification

DESCRIPTION

Further funding for this project has been deferred beyond six years pending completion of an update to the long range strategic sewerage plan. This project provides for the design and construction of a 20 MGD advanced wastewater treatment plant, located on the Avenel Farm Tract, which will treat wastewater obtained from the Dulles Interceptor and discharge the effluent at the confluence of Little Falls Branch and the Potomac River, below all permanent raw (drinking) water intakes. Approximately 950 feet of 48-inch diameter pipe will convey the influent from the Dulles Interceptor to a pumping station which will be located at the east boundary of the David Taylor Model Basin. The influent will then be pumped to the plant through 11,400 feet of 48-inch diameter force main. Approximately 21,500 feet of 27-inch and 30-inch diameter pressure pipe will convey the effluent to the Maryland Upper Potomac Interceptor near the mouth of Cabin John Creek. The 14,800 feet of existing 36-inch diameter interceptor will be converted to an effluent pipeline to carry the effluent the rest of the way to the point of discharge. Funds have been spent for tree planting and the construction of the Equestrian Center Modular Buildings and are shown in Block B, Column 9, under "Construction."

Service Area WSSD Drainage Basin **Capacity** 20 MGD

JUSTIFICATION

Plans & Studies

Montgomery County Comprehensive Water Supply and Sewerage Systems Plan (1981 Annual Update); Maryland-National Capital Park and Planning Commission Comprehensive Staging Plan; Bi-County Sewage Treatment Capacity Agreement (December 8, 1983); Blue Plains Intermunicipal Agreement of 1985; WSSC Strategic Sewerage Study (March 1993); WSSC Seneca / Potomac Issues Report (November 1994); Montgomery County Ten-Year Comprehensive Water Supply and Sewerage Systems Plan (Approved 1999-2008 Plan).

Specific Data

This project represents the next increment of treatment capacity for WSSC in the Blue Plains service area, diverting up to 20 MGD from the Blue Plains Wastewater Treatment Plant in the District of Columbia.

Cost Change

Not applicable.

STATUS (WSSC Contract Nos. CD3641C78 , CD3641D78, , CD3641E78, , CD3641F78, , CD3641G78, , CD3641H78,).

OTHER

The project scope was first developed in FY 1981, refined in FY 1982, and now has an estimated total cost of $222,717,000. The original estimate of approximately $67 million came from the Montgomery County Mid-Term Study (1978). The scope of the study did not include detailed engineering work and produced only a rough order of magnitude cost estimate. In FY'82 a revised cost estimate of

E. Annual Operating Budget Impact (000's)

			FY of Impact
Program Costs	Staff	2812	....
	Other	4322	....
Facility Costs	Maintenance	1401	....
	Debt Service	1367	....
Total Costs		9902	....
Impact on Water or Sewer Rate		22¢	....

F. Approval and Expenditure Data (000's)

Date First in Capital Program	FY 79
Date First Approved	FY 79
Initial Cost Estimate	66,860
Cost Estimate Last FY	222,717
Present Cost Estimate	222,717
Approved Request, Last FY	
Total Expenditures & Encumbrances	16,336
Approval Request FY 05	
Supplemental Approval Request Current FY (04)	

G. Status Information

Land Status:	Site acquired
% Project Completion:	Not Applicable
Est. Completion Date:	Unknown

H. Map **Map Reference Code:**

SEE ATTACHED MAP

D. DESCRIPTION & JUSTIFICATION (CONT.)

Agency Number: S - 126.00 **Project Name: Rock Run Sewage Treatment Facility**

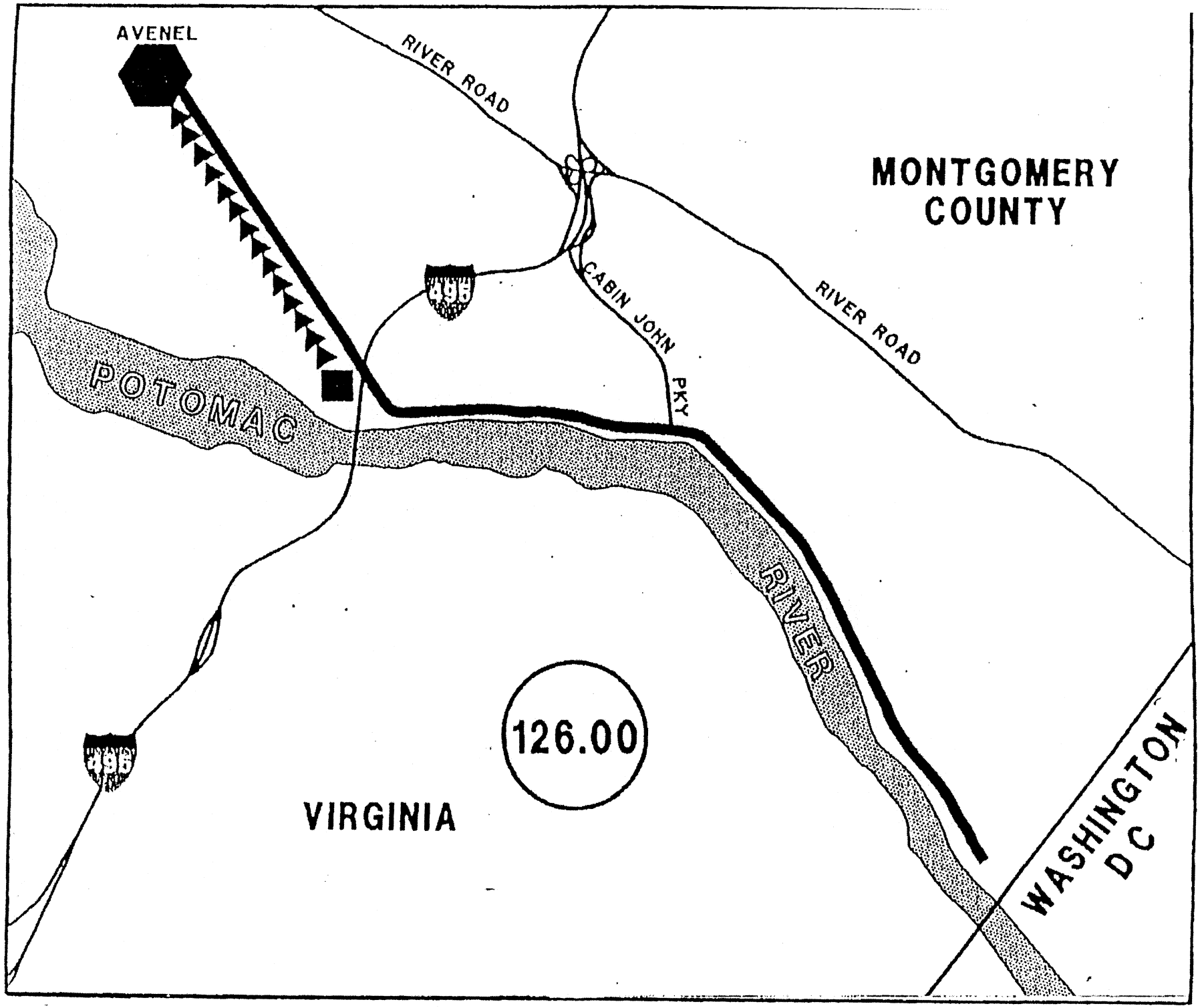
$126 million was based upon the alternative selected by Montgomery County from several contained in the Rock Run AWT Project Development Report (December 1981). The present cost estimate, at $222.7 million, is derived from the Project Development Report's planning estimates based upon generalized cost curves and similar data and adjusted for inflation. A more accurate estimate, which may be considerably higher, cannot be determined until a predesign report has been completed. A predesign report will need to review the planning assumptions contained in the prior Rock Run studies and assess the feasibility of implementing the Rock Run AWT based upon updated environmental and engineering standards. Furthermore, actual project costs will be heavily dependent upon whether agreement can be reached with the National Park Service concerning the location and construction of the effluent conveyance system within the George Washington Memorial Parkway corridor and on whether it is deemed environmentally acceptable to place the effluent pipe within the Rock Run Stream Valley Park, managed by M-NCP&PC. Negotiations with the United States Department of the Navy for the rights-of-way for the influent and effluent conveyance system will also be necessary. Upon successful completion of negotiations, final design could begin. The currently planned discharge pipe would be approximately seven miles long and would run along MacArthur Boulevard for approximately three miles. The planned route would require the removal of roadside and streamside trees for most of its length. The construction area within the Rock Run Stream Valley Park would result in significant tree loss and probable stream disturbance in an area with a high value and diverse vegetative communities.

Contract "C" - Project Development Report and AWT Plant; Contract "D" - Pipeline Conveyance System; Contract "E" - Environmental Report, Contract "F" - Tree Planting; Contract "G" - Discharge Alternatives; and Contract "H" - Equestrian Center Modular Buildings. These contracts are complete.

COORDINATION

Montgomery County Government, Maryland-National Capital Park & Planning Commission (The M-NCP&PC anticipates receiving Mandatory Referral submissions from the WSSC as this project moves toward final completion of design.), National Park Service, District of Columbia Government, Maryland Department of the Environment, Interstate Commission on the Potomac River Basin, U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, Region III and Interagency Task Force.

NOTE This project supports 100% Growth.


AVENEL
RIVER ROAD
MONTGOMERY COUNTY
CABIN JOHN PKY
RIVER ROAD
495
POTOMAC
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VIRGINIA
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