

POTENTIAL ECONOMIC STIMULUS PACKAGE PROJECTS

1. **Project Name:**

CAROLINE COUNTY REGIONAL WASTEWATER TREATMENT PLANT UPGRADE AND EXPANSION TO 1.5 MGD.

Project Description:

This project increases the treatment capacity of the Caroline County Upper Polecat Creek Regional Wastewater Treatment Plant from 0.5 million gallons of treatment per day to 1.5 mgd and upgrades the existing treatment plant facility to replace aged equipment to comply with the nutrient control regulations for dischargers to the Chesapeake Bay watershed. The major components consist of biological nutrient removal structures, equalization basin, head-works with bar screen and grit removal, sand filters, carbon source facility, lab and office facilities, the rehabilitation of the UV disinfection system, oxidation ditch conversion to digester and the septage receiving station. Various site and landscaping improvements will also be made.

Project Status:

Ready to bid (Jan. 31, 2009)

Estimated Cost:

\$30,000,000

2. **Project Name:**

WELL DEVELOPMENT CARMEL CHURCH - LADYSMITH

Project Description:

Drilling of nine new wells to increase the potable water supply. Design and build facilities to chlorinate and monitor production and construction of the connection to the water system.

Project Status:

Project Bid awaiting funding approval

Project Cost:

\$1,100,000

3. **Project Name:**

DAWN DECENTRALIZED WASTEWATER TREATMENT FACILITY PHASE II

Project Description:

This project expands the Dawn Community wastewater collection system and will service low to moderate income residents with failing and marginally performing drainfields. 280 residents have been identified for the phase II project. The major components of this system are the extension of the 2, 4, & 6 inch force main lines to each resident that has been identified, remove the existing septic tank and install a new step tank and pump to deliver the sewer to the existing wastewater treatment facility.

Project Status:

Construction to begin within 2 months upon funding approval

Project Cost:

\$4,900,000

4. **Project Name:**

DAWN AREA WATER LINES

Project Description:

This project installed a water system in the Dawn Community and will service low to moderate income residents with poor water quality due to failing drain fields. 565 residents have been identified for the water project. The major components of this system are the development of wells, water tower construction and service line extensions. The system will provide not only potable water to the community but fire protection.

Project Status:

Bid within 6 month from funding approval

Project Cost:

\$8,700,000

5. **Project Name:**

CAROLINE PINES WATER SYSTEM UPGRADE AND CONNECTION TO A RELIABLE WATER SUPPLY

Project Description:

This project will replace some of the existing water mains in the Caroline Pines Subdivision to meet current Virginia Department of Health requirements, to provide a minimum level of fire protection and to connect the current failing system to the Carmel Church/Ladysmith Utility System to provide a reliable water source. The major components of this system are the development of new wells, construction of a water tower, and construction of a service main between the Caroline Pines Subdivision and the Carmel Church/Ladysmith Utility System.

Project Status:

Bid within 6 month from funding approval

Project Cost:

\$4,200,000

6. **Project Name:**

PUBLIC WORKS/PUBLIC UTILITIES/SCHOOL OPERATION CENTER:

Project Description:

Public Services and Schools are essential to creating an environment in which economic development will occur. The County’s current operational center does not meet its current space needs and, will due to limited space the growth both residential and economic will greatly impair the County’s ability to provide services are required.

Project Status:

The County has completed a preliminary space program for this facility and can proceed immediately with a design build project.

Project Cost:

The projected cost of this facility is \$5,500,000.

7. **Project Name:**

BOWLING GREEN WATER/SEWER INFRASTRUCTURE INVESTMENT

Project Description:

This project will provide infrastructure upgrades include the extension of public water and sewer.

Project Status:

Plans approved

Project Cost:

\$7,000,000

8. Project Name:

DAWN BRANCH LIBRARY

Project Description:

Dawn is located in the Reedy Church Magisterial District in the southern portion of Caroline County. This area has a high minority population which heavily utilizes the current Dawn Library.

The current Dawn Library is very limited in space and is located in a building in which the County has concerns long term structural and environmental concern. With the donation of property for the construction a new branch library in Dawn the County designed a 5,000 square foot library for this area of the County.

Project Status:

Site/Building Plan Review

Project Cost:

\$1,000,000

9. Project Name:

SPARTA FIRE STATION

Project Description:

The current Sparta Fire Station is inadequate to accommodate the equipment and personnel required to provide fire protection to the Sparta area of Caroline County. This station is located in the flood plane of Maracossic Creek, and is separated from a segment of the Sparta Community by a bridge over that same creek with a history of inundation during heavy rainfalls.

Project Status:

Caroline County has committed to the construction of a new station due to the rural nature of the Sparta Community which prohibits construction by the Volunteer Department. The County and Volunteer Department has completed the Preliminary Space Program for this Station establishing the need for square foot station. The Sparta Volunteer Department holds title to the new station site and the County is prepared to proceed with a design build project for a metal building upon generating the funds necessary for construction.

Project Cost:

\$2,500,000

10. Project Name:

BELMONT PUBLIC SAFETY BUILDING:

Project Description:

A new fire station at the Caroline County residential, retail and industrial hub in Carmel Church is currently under design by the developer of the Belmont Communities. The developer has indicated his willingness to expand the design of this building to be a Public Safety Building beyond his \$2,500,000 proffer if the County can fund the difference in cost between a fire station and public safety facility of \$1,000,000.

Project Status:

At this time the Developer is proceeding with the preliminary design of the Public Safety Building but will shortly have to revert to a fire station design unless matching funds are located.

Project Cost:

The project cost is \$1,000,000

11. Project Name:

PUBLIC SAFETY BUILDING:

Project Description:

Due to limited space the County's Public Safety Departments, Caroline County Sheriff and Fire & Rescue are located in multiple facilities that greatly impact their operational efficiency. The low crime rate and emergency response capabilities in Caroline County are of paramount importance to the ability of the County to recruit economic development opportunities for the County.

Project Status:

The County has previously completed a preliminary space program for the Public Safety Building and currently the Sheriff and Emergency Services do not have space to meet their current needs. This project can move forward as a design build project upon obtaining funding or could use conventional design with a bid solicitation within 6 months of obtaining funding.

Project Cost:

The projected cost of this project is \$12,600,000.

12. Project Name:

LAKE CAROLINE WATER TREATMENT PLANT

Project Description:

To replace a failing Potable Water Treatment Facility with a state of the art facility to meet current and future regulations. This facility would be designed to treat the maximum capacity the withdraw permit will allow.

Project Status:

After funding approval – DEQ Permitting will commence followed by design and then construction of the Water Treatment Facility

Project Cost:

\$18,000,000

13. Project Name:

PUBLIC SAFETY RADIO SYSTEM UPGRADE

Project Description:

The current radio system is over 20 years old, with only one channel per department. The present tower located at the Courthouse complex is deteriorating and needs to be replaced. The new radio system will allow for integrated communications between all agencies, both within the County as well as neighboring localities.

Project Status:

Engineering can be done once project is approved.

Project Cost:

The projected cost of this improvement is \$20,725,000.

14. Project Name:

WATER LINE EXTENSION TO THE WWTP

Project Description:

To extend the water line from the Carmel Church water system to the Caroline County Regional Wastewater Treatment Plant to provide fire suppression and potable water supply for emergency chemical showers, eye washes, laboratory testing requirements as well as other potable uses.

Project Status:

Construction to commence within 6 month of funding approval

Project Cost:

\$3,200,000

15. **Project Name:**

CAROLINE COUNTY PARK IMPROVEMENTS

Project Description:

In the late 1980s, Caroline County constructed a County Park on county property adjacent to the Caroline County High School with a grant from the Virginia Department of Conservation & Recreation. The Park has afforded the county and schools with a location for structured recreational activities as well as providing individual recreational opportunities for county residents.

The county has out grown the current park facilities and identifying the need for expansion of this facility completed a Park Master Development Plan in 2008. The park offers in expensive recreational activities during poor economic times making park expansion an important community project. Park expansion can be phases or completed as one project.

Project Status

Ready to bid

Project Cost:

Phase 1	\$2,128,024
Phase 2	\$2,182,296
Phase 3	\$1,231,608
Phase 4 \$	\$1,309,763

16. **Project Name:**

CAROLINE COUNTY SOLID WASTE TRANSFER STATION

Project Description:

In 2001 Caroline County closed its Sanitary Landfill due to economic and environmental concerns in advance of the General Assembly’s mandate that all unlined landfills in Virginia be closed, the county elected to use existing landfills in lieu of the constructing a new landfill. At the time of landfill closure it was more economical for the county to haul wastes directly from its collection sites. Cost increases in equipment and specifically fuel no longer justify direct haul from collection sites and the construction of a transfer station is required. The compaction of all wastes hauled and use of trailers instead of roll off containers will not only reduce the cost of operation but reduce the road miles required annually to dispose of wastes, thereby conserving energy and reducing emissions to the atmosphere. In addition the County will be able to receive solid waste from current as well as new private haulers and business, and from Fort AP Hill which currently hauls its solid waste outside of the county also conserving energy and reducing emissions to the atmosphere.

Project Status:

Project Cost:

\$1,300,000.

17. Project Name:

VIRGINIA SPORTS COMPLEX UTILITY UPGRADE

Project Description:

This project will extend public sewer service to the Virginia Sports Complex, thereby allowing expansion of the facility, as well as program offerings.

Project Status:

Bid within 3 months of funding approval

Project Cost:

\$537,000

18. Project Name:

NORTH ANNA NON MOTORIZED BOAT LANDING

Project Description:

The State Fair of Virginia (SFVA) donated approximately 1 acre of property on the east bank of the North Anna River at US Route 30 to Caroline County for the construction of a non-motorized boat landing. This landing will be located in the southwestern corner of Caroline County in the Reedy Creek Magisterial District immediately adjacent to Hanover County. This project will greatly enhance recreational activities available to non-motorized boating enthusiasts in both counties. The project consists of the construction of a boat launch facility, parking area and access from the westbound lane of US Route 30. .

Project Status:

Construction in June 2009

Project Cost:

\$200,000

Engineering (design)	\$ 40,000
Boat Landing construction	110,000
Access construction	<u>50,000</u>
Total	\$ 200,000

19. Project Name:

MILFORD INFRASTRUCTURE INVESTMENT

Project Description:

This project will provide infrastructure upgrades to include the extension of water, sewer and natural gas to the end of the Milford Industrial Park..

Project Status:

Site Identified

Project Cost:

\$5,000,000

20. Project Name:

PONI RIVER RESERVOIR FEASIBILITY STUDY

Project Description:

To have a comprehensive Preliminary Engineering Report completed along with an environmental impact study to review the feasibility of a reservoir as part of the Caroline County long term water solution

Project Status:

RFP to be develop with a start date within 3 months after funding approval

Project Cost:

\$250,000

21. Project Name:

POLECAT CREEK INTERCEPTOR LINE

Project Description:

To install a new sewer force main from the VDOT Rest Area to the Caroline County Regional Wastewater Treatment Plant. This line will handle all flows from the Ladysmith area and the Rest Area.

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$3,809,000

22. Project Name:

REUSE WATER LINE EXTENSION FROM THE WWTP TO THE PENDLETON GOLF COURSE

Project Description:

To install a pump station and construct a reuse line from the Caroline County Regional WWTP to the Pendleton Golf Course. This project will decrease the amount of effluent discharge to the Polecat Creek and reduce the overall impact to the Chesapeake Bay Water Shed. This allows Caroline County to meet future Nutrient and Phosphorus requirements.

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$4,275,000

23. Project Name:

WATER LINE EXTENSION TO THORNBERRY - M.C. DEAN PROJECT

Project Description:

To extend a water main to the Thornberry / M.C. Dean area to provide fire suppression and potable water supply also to construct a water tower and associated lines.

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$5,250,000

24. Project Name:

WATER LINE EXTENSION TO SPOTSYLVANIA

Project Description:

To install a water main from the Caroline County water system to the Spotsylvania County water system to provide a regional interconnect that will assist in providing Caroline County with along term water supply.

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$3,497,000

25. Project Name:

CAROLINE PINES WATER MAIN TO DAWN

Project Description:

To install a water main from Caroline Pines to the Dawn Water System. This line will help provide a reliable water supply to the Dawn Area

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$2,631,000

26. Project Name:

RAPPAHANNOCK RIVER WATER TREATMENT PLANT 12 MGD

Project Description:

To design and construct a 12 mgd water treatment facility to provide a water supply to the Haymount water system as well as assist in providing Caroline County with a long term water supply

Project Status:

After Funding Approval - Design will begin after all permitting is complete with construction commencing once design is complete

Project Cost:

\$59,754,000

27. Project Name:

SEWER FROM CCCSC & BGE SYSTEM TO THE WWTTP

Project Description:

To construct a sewer force main from the Bowling Green Collection System (Caroline County Community Services Center & the Bowling Green Elementary School) to the Caroline County Regional Wastewater Treatment Plant. This force main will require a new pumping station.

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$2,400,000

28. Project Name:

WWTP CAPACITY UPGRADE TO 3MGD

Project Description:

To upgrade the Caroline County Regional Wastewater Treatment Plant to 3 MGD to provide additional capacity for future growth as related to existing platable lots.

Project Status:

After Funding Approval - Design will begin with construction commencing once design is completed and all permitting has been obtained.

Project Cost:

\$11,000,000

29. Project Name:

SOUTH RIVER PUMP STATION UPGRADE

Project Description:

To upgrade the existing sanitary pump station and force main to provide additional capacity to the Ladysmith area to ensure adequate sewer services to existing platable lots.

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed.

Project Cost:

\$1,250,000

30. Project Name:

MILFORD WELL FIELD

Project Description:

The construction of a coastal plain well field in the Milford area that will provide Caroline County with a mid-term water solution.

Project Status:

Project Bid awaiting funding approval

Project Cost:

\$1,850,000

31. Project Name:

LADYSMITH VILLAGE WATER TOWER

Project Description:

To construct a 1 mgd water tower to provide adequate water storage to meet fire flow requirements and Health Department Standards.

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$3,000,000

32. Project Name:

LADYSMITH TO POORHOUSE INTERCONNECT

Project Description:

To construct a water main between the Ladysmith water system and the Poorhouse water system to provide adequate water supply.

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$6,123,000

33. Project Name:

REHAB ECONO-LODGE PUMP STATION

Project Description:

To upgrade the existing sanitary pump station to provide additional capacity to the Carmel Church area to ensure adequate sewer services to existing platable lots.

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$175,000

34. Project Name:

LADYSMITH TO VDOT I-95 GRAVITY LINE REPLACEMENT

Project Description:

To replace the existing gravity sewer line with a larger gravity line to provide additional capacity for the Ladysmith growth area to ensure adequate sewer services to existing platable lots.

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$3,145,000

35. Project Name:

REUSE WATER LINE EXTENSION TO MATTAPONI SPRINGS GOLF COURSE

Project Description:

To install a pump station and construct a reuse line from the Caroline County Regional WWTP to the Mattaponi Golf Course. This project will decrease the amount of effluent discharge to the Polecat Creek and reduce the overall impact to the Chesapeake Bay Water Shed. This allows Caroline County to meet future Nutrient and Prosperous requirements.

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$2,650,000

36. Project Name:

PENDLETON WATER TOWER

Project Description:

To construct a 1 mgd water tower to support the future growth of the Pendleton Community

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$3,000,000

37. Project Name:

GUINEA WATER SYSTEM

Project Description:

This project will construct water infrastructure to the Orrock Park to provide development opportunities to this tract of land. The major components of this system are the development of wells, water tower construction and service line extensions. The system will provide not only potable water to the development but fire protection

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$8,700,000

38. Project Name:

GUINEA WASTEWATER TREATMENT PLANT

Project Description:

This project will construct wastewater infrastructure to the Orrock Park to provide development opportunities to this tract of land. The major components of this system are the decentralized wastewater treatment plant and service line extensions.

Project Status:

Design to begin at time of funding approval with construction commencing once design is completed

Project Cost:

\$7,200,000

39. Project Name:

WWTP UPGRADE 6 MGD

Project Description:

To upgrade the Caroline County Regional Wastewater Treatment Plant to 6 MGD to provide additional capacity for future growth as related to existing Platable lots

Project Status:

After Funding Approval - Design will begin with construction commencing once design is completed and all permitting has been obtained.

Project Cost:

\$39,000,000

40. Project Name:

WATER LINE EXTENSION TO HANOVER COUNTY

Project Description:

To install a water main from the Caroline County water system to the Hanover County water system, to construct a booster station and water tank to provide a regional interconnect that will assist in providing Caroline County with a long term water supply.

Project Status:

Design to begin at time of funding approval with construction commencing once design in completed

Project Cost:

\$3,525,000

41. Project Name:

CARMEL CHURCH MULTIMODAL TRANSPORTATION CENTER

Project Description:

This project creates a full service transportation center, including passenger rail, transit, pedestrian and bicycle facilities in a mixed use urban environment. The major components of this project include design and construction of a new passenger station, track improvements, equipment and road improvements to the site.

Project Status:

Beginning Environmental Impact Statement

Project Cost:

\$120,000,000

42. Project Name:

SPECULATIVE DISTRIBUTION BUILDING

Project Description:

This project will create a 350,000 sq. ft. ready to go distribution center in Carmel Church for investment opportunities the County is pursuing. Project includes design, construction, land acquisition, and infrastructure improvements.

Project Status:

Bid within 6 month from funding approval

Project Cost:

\$23,000,000

43. Project Name:

CAROLINE COUNTY COUNTYWIDE BROADBAND PROJECT

Project Description:

To develop a Countywide broadband system to improve internet access throughout the County. Current services providers do not adequately serve the rural or developing areas of the County. Development of the system under the auspices of the County will fill a gap not currently met solely by the private sector.

Project Status:

Approved by the BOS

Project Cost:

\$800,000

44. Project Name:

PHASE III CARMEL CHURCH INTERCHANGE IMPROVEMENTS (RELOCATION OF F-160)

Project Description:

Relocation of F-160 on the west side of the I-95/Route 207 interchange, to improve traffic ingress/egress at the interchange. The improvements would also improve Economic development opportunities to adjacent parcels and facilitate the improved access to future multi-modal transportation center.

Project Status:

Preliminary Engineering started

Project Cost:

\$12,794,315

45. Project Name:

CONVERT PRIMARY SCHOOL TO PK-5

Project Description:

To expand capacity at existing primary school and convert to a PK-5 elementary school. Students currently housed in three separate facilities would be consolidated into a single facility.

Project Status:

School CIP.

Project Cost:

\$8,000,000

46. Project Name:

CAROLINE HIGH SCHOOL RENOVATION AND EXPANSION

Project Description:

To renovate and increase capacity of high school from 1200 to 1600 students and upgrade HVAC and other systems. The current facility is 35 years old and near capacity. This project is more feasible than construction of a new facility.

Project Status:

School CIP

Project Cost:

\$12,000,000

47. Project Name:

CONSTRUCT NEW CARMEL CHURCH ELEMENTARY SCHOOL

Project Description:

Construct new PK-5 Elementary School to serve rapidly growing western portion of the County.

Project Status:

School CIP

Project Cost:

\$20,000,000

48. Project Name:

I-95/RT 639 INTERCHANGE IMPROVEMENTS

Project Description:

Reconstruct the I-95/Route 639 interchange to a four lane divided with modified urban diamond .

Project Status:

Adopted in Comprehensive Plan

Project Cost:

\$19,344,000

49. Project Name:

ROUTE 639 IMPROVEMENTS

Project Description:

Improve Route 639 (excluding the I-95/Route 639 Interchange) from 2 to 4 lane divided highway from Route 756, through Route 1 to the Ladysmith Village Collector (2.7 miles).

Project Status:

Adopted in Comprehensive Plan with some Revenue Sharing Funds

Project Cost:

\$39,440,000

50. Project Name:

U.S. ROUTE 1 IMPROVEMENTS

Project Description:

Improve Route 1 to a four lane divided highway with controlled access from Route 601 to Route 622 (3.9 miles).

Project Status:

Adopted in Comprehensive Plan

Project Cost:

\$61,405,000

51. Project Name:

ROUTE 639 IMPROVEMENTS FROM LADYSMITH VILLAGE COLLECTOR TO CHILESBURG

Project Description:

Reconstruct existing two lane road a distance of 3.8 miles.

Project Status:

Adopted in Comprehensive Plan

Project Cost:

\$17,361,000

52. Project Name:

U.S. ROUTE 30 IMPROVEMENTS

Project Description:

Improve Route 30 to a four lane divided highway with controlled access from end of current four lane section to 1 mile east of the Route 301. (3.4 miles)

Project Status:

Adopted in Comprehensive Plan

Project Cost:

\$26,229,000

53. Project Name:

ROUTE 712 RELOCATION AND EXTENSION IMPROVEMENTS

Project Description:

Relocate and reconstruct Route 712 to a four lane divided highway with controlled access from Route 1 to Route 639 (1.2 miles) and construct northern extension from Route 639 to Route 1 (north) at Ladysmith Village (1.0 mile).

Project Status:

Adopted in Comprehensive Plan

Project Cost:

\$25,830,000

54. Project Name:

ROUTE 721 BRIDGE REPLACEMENT

Project Description:

Replace the Route 721 bridge over Maracossic Creek in Sparta. New County fire apparatus currently exceed the posted weight limit of the bridge.

Project Status:

Preliminary costs estimates only.

Project Cost:

\$1,700,000